TABLES AND GRAPHS OF PHOTON MASS ATTENUATION COEFFICIENTS; K AND L SUBSHELL FLUORESCENCE YIELDS, COSTER-KRONIG TRANSITION COEFFICIENTS, JUMPS AND ENERGIES; K AND L LINE FRACTIONS, NATURAL WIDTHS AND ENERGIES; ATOMIC FORM FACTORS AND SCATTERING FUNCTIONS; CUMULATIVE COMPTON PROFILES; DERIVED FROM THE COEFFICIENTS IN THE SHAPE DATA BASE FOR ELEMENTS WITH Z=1 TO 92, USING THE ACCOMPANYING ALGORITHMS, ROUTINES AND SAMPLE PROGRAMS.
PART C: COMPTON PROFILES

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```
program lscat0;
{
        Converts the data files from Unix style (lines ended
        with LF) to DOS style (text lines ended with CR-LF).

        The old files are not modified at all.
        The new data files have all the extension NEW, and
         i) the leading and anding blanks are trimmed,
        ii) start and end file-delimiters are deleted.

        Author: JEF
        Last update: 11/Dec/95
}
  uses
    TPString;
  var
    fn1, fn2,
    l1        : string;
    f1, f2    : file of char;
    f3, f4    : text;
    i,j       : integer;
    ch0, ch1,
    _CR, _LF,
    _EOF      : char;
  const
                            { file delimiters }
    _Start   = '&SCPRDT';   { begin of file }
    _End     = '&END';      { end of file }

begin
  _CR  := chr(13); { carriage return, i.e. 0Dh }
  _LF  := chr(10); { line feed, i.e. 0Ah }
  _EOF := chr(26); { end of file, i.e. 1Ah }
  for j := 1 to 102 do
    begin
      fn1 := 'Z'+LeftPadCh(Long2Str(j),'0',3)+'.DAT';
      assign(f1, fn1);
      reset(f1);

      fn2 := 'TEMP.NEW';
      assign(f2, fn2);
      rewrite(f2);

      writeln('Converting file ',fn1,' into ',fn2);
      ch0 := ' ';
      while not eof(f1) do
        begin
          read(f1,ch1);
          if (ch1 = _LF) and (ch0 <> _CR) then write(f2,_CR);
          if (ch1 <> _EOF) then write(f2,ch1);
          ch0 := ch1;
        end;
      close(f2);
      close(f1);
      writeln('Temporary file ',fn2,' closed successfully!');

      fn1 := 'TEMP.NEW';
      assign(f3, fn1);
      reset(f3);

      fn2 := 'Z'+LeftPadCh(Long2Str(j),'0',3)+'.NEW';
      assign(f4, fn2);
      rewrite(f4);

      writeln('Trimming leading and ending blanks in ',fn1);
      while not eof(f3) do
        begin
          readln(f3,l1);
          l1 := StUpCase(Trim(l1));
          if (l1 <> '') and
             (Pos(_start,l1) = 0) and
             (Pos(_end,l1) = 0) then writeln(f4,l1);
        end;
      close(f3);
      Erase(f3); {deletes the temporary file}
      close(f4);
      writeln('File ',fn2,' closed successfully!');
      writeln;
    end;
end.
```

```
program lscat_1;
{
        Reads the data files with extension NEW, and builds-up
        an unique ASCII file containing all the data.
        The binding energy is given in keV (not in MeV).

        Author: JEF
        Last update: 11/Dec/95
}
  uses
    TPString;
  var
    fn1, fn2,
    l1, SN    : string;
    f1, f3, f4: text;
    i,j, k    : integer;
    ki        : byte;

    nshells_i,
    nshells_o  : integer;
    q          : array [0..30] of real;
    nelectrons,
    binding    : array [1..30] of real;
    shell      : array [1..30] of integer;
    profile    : array [0..30,1..28] of real;

  const
                              { variable list in data files }
    _Qcap    = 'QCAP=';     { bin values of p_z }
    _Mxraw   = 'MXRAW=';    { number of sub-shells in input }
    _Mxshel  = 'MXSHEL='; { number of sub-shells in output }
    _Elecni  = 'ELECNI=';   { number of electrons in each sub-shell in input }
    _Nshell  = 'NSHELL=';   { relation of subshells in input and output }
    _Capin   = 'CAPIN=';    { orbital electron binding energy in MeV }
    _Scprof  = 'SCPROF=';   { compton profiles in each sub-shell }

begin
  assign(f1,'LSCAT1.LOG');
  rewrite(f1);

  for j := 1 to 92 do
    begin
      fn1 := 'Z'+LeftPadCh(Long2Str(j),'0',3)+'.NEW';
      assign(f3, fn1);
      reset(f3);

      fn2 := 'PROFILES.ASC';
      assign(f4, fn2);
      if (j = 1) then rewrite(f4) else append(f4);

      writeln('Merging ',fn1,' in ',fn2);
      while not eof(f3) do
        begin
          readln(f3,l1);
          if Pos(_qcap,l1) <> 0 then  { read 31 bin values of p_z }
            begin
              ki := 2;
              for k := 1 to 31 do
                begin
                  SN := ExtractWord(ki,l1,['=',',']);
                  {
                  writeln(k:2,' [',ki:2,': ',SN,']');
                  readln;
                  }
                  if (SN = '') then
                    begin
                      readln(f3,l1);
                      ki := 1;
                      SN := ExtractWord(ki,l1,['=',',']);
                      {
                      writeln(k:2,' [',ki:2,': ',SN,']');
                      readln;
                      }
                    end;
                  if not Str2Real(SN,q[k-1]) then
                    writeln(f1,'>> Error converting QCAP string in ',fn1);
                  Inc(ki);
                end;
            end
          else if Pos(_Mxraw,l1) <> 0 then
            begin
```

```
      SN := ExtractWord(2,l1,['=',',']);
      if not Str2Int(SN,nshells_i) then
        writeln(f1,'>> Error converting MXRAW string in ',fn1);
    end
  else if Pos(_Mxshel,l1) <> 0 then
    begin
      SN := ExtractWord(2,l1,['=',',']);
      if not Str2Int(SN,nshells_o) then
        writeln(f1,'>> Error converting MXSHEL string in ',fn1);
    end
  else if Pos(_Elecni,l1) <> 0 then
    begin
      ki := 2;
      for k := 1 to nshells_i do
        begin
          SN := ExtractWord(ki,l1,['=',',']);
          if (SN = '') then
            begin
              readln(f3,l1);
              ki := 1;
              SN := ExtractWord(ki,l1,['=',',']);
            end;
          if not Str2Real(SN,nelectrons[k]) then
            writeln(f1,'>> Error converting ELECNI string in ',fn1);
          Inc(ki);
        end;
    end
  else if Pos(_Nshell,l1) <> 0 then
    begin
      ki := 2;
      for k := 1 to nshells_i do
        begin
          SN := ExtractWord(ki,l1,['=',',']);
          if (SN = '') then
            begin
              readln(f3,l1);
              ki := 1;
              SN := ExtractWord(ki,l1,['=',',']);
            end;
          if not Str2Int(SN,shell[k]) then
            writeln(f1,'>> Error converting NSHELL string in ',fn1);
          Inc(ki);
        end;
    end
  else if Pos(_Capin,l1) <> 0 then
    begin
      ki := 2;
      for k := 1 to nshells_i do
        begin
          SN := ExtractWord(ki,l1,['=',',']);
          if (SN = '') then
            begin
              readln(f3,l1);
              ki := 1;
              SN := ExtractWord(ki,l1,['=',',']);
            end;
          if not Str2Real(SN,binding[k]) then
            writeln(f1,'>> Error converting CAPIN string in ',fn1);
          Inc(ki);
        end;
    end
  else if Pos(_Scprof,l1) <> 0 then
    begin
      ki := 2;
      for i := 1 to (nshells_i+1) do
        begin
          for k := 0 to 30 do
            begin
              SN := ExtractWord(ki,l1,['=',',']);
              {
              writeln('(',i:2,', ',k:2,') [',ki:2,': ',SN,']');
              readln;
              }
              if (SN = '') then
                begin
                  readln(f3,l1);
                  ki := 1;
                  SN := ExtractWord(ki,l1,['=',',']);
                  {
                  writeln('(',i:2,', ',k:2,') [',ki:2,': ',SN,']');
                  readln;
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```
                        }
                      end;
                    if not Str2Real(SN,profile[k,i]) then
                      writeln(f1,'>> Error converting SCPROF string in ',
                                 fn1,'[group=',i:2,', pos=',(k+1):2,']');
                    Inc(ki);
                  end;
              end;
          end;
      end;
    close(f3);

    writeln(f4,j:2,' ',nshells_i:2);

    write  (f4,j:2);
    for k := 1 to nshells_i do write(f4,' ',shell[k]:2);
    writeln(f4);

    write  (f4,j:2);
    for k := 1 to nshells_i do write(f4,' ',nelectrons[k]:2:0);
    writeln(f4);

    write  (f4,j:2);
    for k := 1 to nshells_i do write(f4,(binding[k]*1000.0):9);
    writeln(f4);

    for k := 0 to 30 do
      begin
        write  (f4,j:2,q[k]:9);
        for i := 1 to (nshells_i+1) do write(f4,profile[k,i]:9);
        writeln(f4);
      end;

    close(f4);

  end;

close(f1);

end.
```

```
program lscat_2;
 {
        Test of the consistency of the data in PROFILES.ASC.
        For each element it is checked that:
          i) the set of q_z's is the same;
         ii) the sum of the electrons is Z,
        iii) the sum of the orbital values gives the total value (component
             by component) within a given tolerance;
         iv) the integral of the total profile gives Z/2 and all the integrals
             of the single orbital profiles give 1/2.
 }
  uses
    TpString;
  const
    tol = 0.04; { tolerance of 4% }
  var
    fn1, fn2,
    l1          : string;
    f1, f2      : text;
    n, i, j, k : integer;
    sum, integ,
    rel_error   : real;

    nshells_i,
    nshells_o   : integer;
    q_z, q0_z   : array [0..30] of real;
    binding     : array [1..28] of real;
    nelectrons,
    shell       : array [1..28] of integer;
    profile     : array [0..30,1..28] of real; {[components,orbitals]}

begin
  fn1 := 'PROFILES.ASC';
  assign(f1, fn1);
  reset(f1);

  fn2 := 'PROFILES.LOG';
  assign(f2, fn2);
  rewrite(f2);

  writeln('Test of the data file PROFILES.ASC');
  writeln;
  writeln('Test #1: check if the set of Q_Z is allways the same.');
  writeln('Test #2: check if the sum of the electrons gives Z.');
  writeln('Test #3: check if the sum of the partial profiles gives the total profile');
  writeln('         within ',(tol*100):2:0,'% (component by component).');
  writeln('Test #4: check if the integrals of the partial profiles are normalized to 1/2');
  writeln('         and the integral of the total profile to Z/2 (within ',(tol*100):2:0,'%).');

  writeln(f2,'Test of the data file PROFILES.ASC');
  writeln(f2,CharStr('_',79));
  writeln(f2);
  writeln(f2,'Test #1: check if the set of Q_Z is allways the same.');
  writeln(f2,'Test #2: check if the sum of the electrons gives Z.');
  writeln(f2,'Test #3: check if the sum of the partial profiles gives the total profile');
  writeln(f2,'         within ',(tol*100):2:0,'% (component by component).');
  writeln(f2,'Test #4: check if the integrals of the partial profiles are normalized to 1/2');
  writeln(f2,'         and the integral of the total profile to Z/2 (within ',(tol*100):2:0,'%).');
  writeln(f2,CharStr('_',79));
  writeln(f2);

  while not eof(f1) do
    begin

      readln(f1,j,nshells_i);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,shell[k]);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,nelectrons[k]);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,binding[k]);

      for k := 0 to 30 do
        begin
          read(f1,j,q_z[k]);
          for i := 1 to (nshells_i+1) do read(f1,profile[k,i]);

          { Test #3 }
```

```
          sum := 0.;
          for i := 1 to nshells_i do sum := sum + nelectrons[i]*profile[k,i];
          rel_error := abs(sum - profile[k,nshells_i+1])/profile[k,nshells_i+1];
          if (rel_error > tol) then
            writeln(f2,'>> Test #3 (',(tol*100):2:0,'%) failed for Z=',j:2,
              '[comp=',k:2,', sum=',sum:9,', total=',profile[k,nshells_i+1]:9,']');
        end;
      readln(f1);

      { Test #1 }
      if (j = 1) then q0_z := q_z
      else
        begin
          for k := 0 to 30 do
            if q0_z[k] <> q_z[k] then
              writeln(f2,'>> Test #1 failed for Z=',j:2,'[',k:2,']');
        end;

      { Test #2 }
      n := 0;
      for k := 1 to nshells_i do n := n + nelectrons[k];
      if n <> j then
        writeln(f2,'>> Test #2 failed for Z=',j:2);

      { Test #4 }
      for i := 1 to (nshells_i+1) do
        begin
          { computes numeric integral (trapezoidal) }
          integ := 0.;
          for k := 1 to 30 do
            integ := integ + (profile[k,i]+profile[k-1,i])*(q_z[k]-q_z[k-1]);
          if (i < (nshells_i+1)) then
            rel_error := abs(integ - 1.0)
          else
            rel_error := abs(integ/j - 1.0);
          if (rel_error > tol) then
            writeln(f2,'>> Test #4 (',(tol*100):2:0,'%) failed for Z=',j:2,
             '[shell=',i:2,', 2*integral=',integ:9,', rel_error=',(rel_error*100):2:0,'%]');
        end;

    end;
  close(f1);
  close(f2);
  writeln;
  writeln('See the results in the file PROFILES.LOG');
end.
```

```
program lscat 3;
 {
        Build-up of graph files PRxxx.DAT for the elements
 }
  uses
    TpString;
  var
    fn1, fn2       : string;
    f1, f2         : text;
    i, j, k        : integer;
    sum            : real;

    nshells_i,
    nshells_o  : integer;
    q_z, q0_z  : array [0..30] of real;
    binding    : array [1..28] of real;
    nelectrons,
    shell      : array [1..28] of integer;
    profile    : array [0..30,1..28] of real; {[components,orbitals]}

begin
  fn1 := 'PROFILES.ASC';
  assign(f1, fn1);
  reset(f1);

  writeln('Build-up of graph files PRxxx.DAT for the elements');
  writeln;

  { Get data from the file PROFILES.ASC }
  while not eof(f1) do
    begin

      readln(f1,j,nshells_i);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,shell[k]);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,nelectrons[k]);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,binding[k]);

      for k := 0 to 30 do
        begin
          read(f1,j,q_z[k]);
          for i := 1 to (nshells_i+1) do read(f1,profile[k,i]);
        end;
      readln(f1);

      { Generate a graph file with Q_Z in the first column, and the   }
      { cumulative profiles in the following columns, up to the total }
      { profile in the last column.                                   }
      fn2 := 'PR'+LeftPadCh(Long2Str(j),'0',3)+'.DAT';
      assign(f2, fn2);
      rewrite(f2);
      for k := 0 to 30 do
        begin
          sum := 0.0;
          write(f2,q_z[k]:8);
          for i := 1 to nshells_i do
            begin
              sum := sum + nelectrons[i]*profile[k,i];
              write(f2,sum:9);
            end;
          write(f2,profile[k,nshells_i+1]:9);
          writeln(f2);
        end;
      close(f2);
      writeln('File ',fn2,' successfully closed!');

    end;
  close(f1);
end.
```

```
program lscat 4;
{
        Builds-up the print file PROFILES.TXT containing data for the
        profiles of the elements with atomic number Z=1..92 (this file
        should be printed in landscape with small characters!), and
        the packed data file PACKPROF.ASC with the profiles grouped by
        binding energy and ordered increasingly, i.e. ready for numerical
        integration.

        The data for each element is organized in three pages:
        page 1: the profiles of the single orbitals, the names of the
                orbitals with the respective number of electrons between
                parenthesis, and the binding energy of each orbital.
        page 2: the cumulative profiles of the single orbitals, starting
                from the inner one up to the total one (as it is shown in
                the graphs), the names of the orbitals with the respective
                number of electrons between parenthesis, and the binding
                energy of each orbital.
        page 3: the cumulative profiles grouped according to the binding
                energy (i.e. having the same upper edge) in increasing order,
                i.e. ordered from low-energy to high-energy cuts.
                The binding energy for the group is also shown.
                This organization will be considered after during the
                calculations of the profiles because it allows for
                reducing the computational time needed to build-up the
                profile.
}
  uses
    TpString;
  const
    _ff = 12; { form feed, i.e. 0bh }
  type
    binding_vector = array [1..28] of real;
    shell_vector   = array [1..28] of integer;
  var
    fn1, fn2, fn3 : string;
    f1, f2, f3    : text;
    l, next,
    i, j, k       : integer;
    sum, E        : real;

    nshells_i,
    nshells_o  : integer;
    q_z, q0_z  : array [0..30] of real;
    ordered,
    binding    : binding_vector;
    nelectrons,
    ord_shell,
    shell      : shell_vector;
    profile    : array [0..30,1..28] of real; {[components,orbitals]}

    function configuration(orbital, electrons: integer): string;
      var
        s1: string;
    begin
      case orbital of
       1: s1:= '1s+';
       2: s1:= '2s+';
       3: s1:= '2p-';
       4: s1:= '2p+';
       5: s1:= '3s+';
       6: s1:= '3p-';
       7: s1:= '3p+';
       8: s1:= '3d-';
       9: s1:= '3d+';
      10: s1:= '4s+';
      11: s1:= '4p-';
      12: s1:= '4p+';
      13: s1:= '4d-';
      14: s1:= '4d+';
      15: s1:= '4f-';
      16: s1:= '4f+';
      17: s1:= '5s+';
      18: s1:= '5p-';
      19: s1:= '5p+';
      20: s1:= '5d-';
      21: s1:= '5d+';
      22: s1:= '5f-';
      23: s1:= '6s+';
      24: s1:= '6p-';
      25: s1:= '6p+';
```

```
      26: s1:= '6d-';
      27: s1:= '7s+';
      end;
      s1 := s1 + '(' + Long2Str(electrons) + ')';
      configuration := s1;
    end;

    procedure piksrt(n: integer; VAR arr: binding vector; VAR brr: shell vector);
      label 10;
      var
        j, i, b : integer;
        a       : real;
    begin
      for j := 2 to n do
        begin
          a := arr[j];
          b := brr[j];
          for i := j-1 downto 1 do
            begin
              if arr[i] <= a then goto 10;
              arr[i+1] := arr[i];
              brr[i+1] := brr[i];
            end;
          i := 0;
    10:   arr[i+1] := a;
          brr[i+1] := b
        end
    end;

begin
  fn1 := 'PROFILES.ASC';
  assign(f1, fn1);
  reset(f1);

  writeln('Build-up of print file PROFILES.TXT for the elements');
  fn2 := 'PROFILES.TXT';
  assign(f2, fn2);
  rewrite(f2);

  writeln('Build-up of packed data file PACKPROF.ASC for the elements');
  fn3 := 'PACKPROF.ASC';
  assign(f3,fn3);
  rewrite(f3);

  { Get data from the file PROFILES.ASC }
  while not eof(f1) do
    begin

      readln(f1,j,nshells_i);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,shell[k]);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,nelectrons[k]);

      read(f1,j);
      for k := 1 to nshells_i do read(f1,binding[k]);

      for k := 0 to 30 do
        begin
          read(f1,j,q_z[k]);
          for i := 1 to (nshells_i+1) do read(f1,profile[k,i]);
        end;
      readln(f1);

      { Page 1: a table like that of Biggs, Mendelsohn and Mann       }
      { Generate a print page with Q_Z in the first column, and the   }
      { single profiles in the following columns, up to the total     }
      { profile in the last column.                                   }
      { Print a header line with the electronic configuration for the }
      { element, and a second header line with the binding energy by  }
      { orbital.                                                      }
      { Title }
      writeln(f2,'Z=',j:2);
      writeln(f2);
      writeln(f2,'Compton profiles for the single orbitals and binding energies');
      writeln(f2);
      { Header}
      write(f2,'q_z':8);
      for i := 1 to nshells_i do
```

```
    begin
      write(f2,configuration(i,nelectrons[i]):9);
    end;
  write(f2,'Total':9);
  writeln(f2);
  { Data of profiles }
  for k := 0 to 30 do
    begin
      {if (k=10) or (k=20) then writeln(f2);}
      write(f2,q_z[k]:8);
      for i := 1 to nshells_i do write(f2,profile[k,i]:9);
      write(f2,profile[k,nshells_i+1]:9);
      writeln(f2);
    end;
  { Binding energies by profile }
  writeln(f2);
  write(f2,'E[keV]:':8);
  for i := 1 to nshells_i do write(f2,binding[i]:9);
  writeln(f2);
  { Page break }
  writeln(f2);

  { Page 2: the table corresponding to the graph                    }
  { Generate a print file with Q_Z in the first column, and the     }
  { cumulative profiles in the following columns, up to the total   }
  { profile in the last column.                                     }
  { Header}
  { Title }
  writeln(f2,'Cumulative Compton profiles for the single orbitals and binding energies');
  writeln(f2);
  write(f2,'q_z':8);
  for i := 1 to nshells_i do
    begin
      write(f2,configuration(i,nelectrons[i]):9);
    end;
  write(f2,'Total':9);
  writeln(f2);
  { Cumulative data of the profiles }
  for k := 0 to 30 do
    begin
      sum := 0.0;
      write(f2,q_z[k]:8);
      for i := 1 to nshells_i do
        begin
          sum := sum + nelectrons[i]*profile[k,i];
          write(f2,sum:9);
        end;
      write(f2,profile[k,nshells_i+1]:9);
      writeln(f2);
    end;
  { Binding energies by profile }
  writeln(f2);
  write(f2,'E[keV]:':8);
  for i := 1 to nshells_i do write(f2,binding[i]:9);
  writeln(f2);
  { Page break }
  writeln(f2);

  { Page 3: the table for the calculations                          }
  { Generate a print file with Q_Z in the first column, and the     }
  { cumulative profiles in the following columns, up to the total   }
  { profile in the last column.                                     }
  { Header}
  { Title }
  writeln(f2,'Cumulative Compton profiles for the orbitals grouped by binding energy');
  writeln(f2);
  writeln(f2,'q_z':8);
  { Cumulative data of the profiles grouped by binding energy }
  ordered := binding;
  ord_shell := shell;
  piksrt(nshells_i,ordered,ord_shell);
  for k := 0 to 30 do
    begin
      write(f2,q_z[k]:8);
      i := 1;
      nshells_o := 1;
      sum := 0.0;
      repeat
        for l := i to nshells_i do
          if (ordered[i] = ordered[l]) then next := l;
        for l := i to next do
```

```
            sum := sum + nelectrons[ord_shell[l]]*profile[k,ord_shell[l]];
          write(f2,sum:9);
          i := next + 1;
          Inc(nshells_o);
        until i > nshells_i;
        Dec(nshells_o);
        write(f2,profile[k,nshells_i+1]:9);
        writeln(f2);
      end;
    { Binding energies by profile }
    writeln(f2);
    E := ordered[1];
    write(f2,'E[keV]:':8,E:9);
    for i := 2 to nshells_i do
      if ordered[i] <> E then
        begin
          write(f2,ordered[i]:9);
          E := ordered[i];
        end;
    writeln(f2);
    { Page break }
    write(f2,chr(_ff));

    { Generate a packed data file with cumulative profiles grouped  }
    { by binding energy, which is ready for numerical integration.  }
    { The file format (by element) is the following:                }
    {    Row  1: Z, NSHELLS_O                                       }
    {    Row  2: BINDING[1] .. BINDING[NSHELLS_O]                   }
    {    Row  3: CUM_PROF[ 0,1] .. CUM_PROF[ 0,NSHELLS_O]           }
    {    ...                    ...                                 }
    {    Row 33: CUM_PROF[30,1] .. CUM_PROF[30,NSHELLS_O]           }
    { Since the Q_Z vector has been omitted in the packed file, it  }
    { must be defined by the program using the profiles.            }
    { Header}
    writeln(f3,j:2,' ',nshells_o:2);
    { Binding energies by profile }
    {write(f3,j:2);}
    E := ordered[1];
    write(f3,E:9);
    for i := 2 to nshells_i do
      if ordered[i] <> E then
        begin
          write(f3,ordered[i]:9);
          E := ordered[i];
        end;
    writeln(f3);
    { Cumulative data of the profiles grouped by binding energy }
    for k := 0 to 30 do
      begin
        {write(f3,q_z[k]:8);}
        i := 1;
        sum := 0.0;
        repeat
          for l := i to nshells_i do
            if (ordered[i] = ordered[l]) then next := l;
          for l := i to next do
            sum := sum + nelectrons[ord_shell[l]]*profile[k,ord_shell[l]];
          write(f3,sum:9);
          i := next + 1;
        until i > nshells_i;
        {write(f3,profile[k,nshells_i+1]:9);}
        writeln(f3);
      end;

  end;
  close(f1);
  close(f2);
  writeln('File ',fn2,' successfully closed!');
  close(f3);
  writeln('File ',fn3,' successfully closed!');
end.
```

```
program lscat 5;
{
        Compares the formulas of Tartari (non-relativistic, derived from Cox)
        and mine (relativistic, derived from Ribberfors and Berggren), to
        compute the energy E as a function of the incident energy E0, the
        scattering angle THETA, and the dimentionless momentum transfer Q_Z.
        The values of the energies are tabulated together to make easier the
        comparison.
}
  const
    doppler_intervals = 30;
    _ff = 12; { form feed, i.e. 0bh }
  type
    q_vector       = array [0..30] of real;
  const
    q_z : q_vector
      = (0.00,0.05,0.10,0.15,0.20,0.30,0.40,0.50,0.60,0.70,
         0.80,1.00,1.20,1.40,1.60,1.80,2.00,2.40,3.00,4.00,
         5.00,6.00,7.00,8.00,10.00,15.00,20.00,30.00,40.00,60.00,100.00);
    E   : array [1..10] of real
      = (10.0, 20.0, 40.0, 60.0, 100.0, 150.0, 200.0, 300.0, 500.0, 1000.0);
  var
    fn1, fn2      : string;
    f1, f2        : text;
    i, j, k       : integer;
    theta, E0, Ec : real;

    {
        Computes Qmax using Eqn (30) of Ribberfors and Berggren,
        Phys Rev A26, 3325 (1982).
        Note that Qmax = 137*pz_max/mc [Q being the dimentionless variable
        defined by Biggs, Mendelsohn and Mann, At Data Nucl Data tables
        16, 201 (1975)].
    }
    function q_max(E0 {keV},Ii {keV}, theta {deg}: real): real;
      const
        mc2 = 511.04; {keV}
      var
        uc_t, k_i, temp : real;
    begin
       uc_t := 1.0-cos(theta*Pi/180.0); { 1 - cos(theta) }
       k_i := E0 - Ii;                  { k0 - Ii }
       if theta <> 0.0 then Begin
         if E0 = 0.0 then
           temp := -100.0
         else
           temp := 137.0*(E0*k_i*uc_t/mc2 - Ii) / sqrt(2*uc_t*k_i*E0+sqr(Ii));
         if temp > 100.0 then
           q_max := 100.0
         else
           q_max := temp
       End
       Else {theta = 0}
         q_max := 0.0; {the value q in this case seems to be not important}
    end;

    {
        Computes Q using Eqn (17) of Ribberfors and Berggren,
        Phys Rev A26, 3325 (1982).
        Note that Q = 137*pz/mc [Q being the dimentionless variable
        defined by Biggs, Mendelsohn and Mann, At Data Nucl Data tables
        16, 201 (1975)].
    }
    function q_calc(E0, E {keV}, theta {deg}: real): real;
      const
        mc2 = 511.04; {keV}
      var
        c_t : real;
    begin
       c_t := cos(theta*Pi/180.0);     {i.e. cos(theta) }
       if theta <> 0 then
         q_calc := 137.0*(E0*E*(1.0-c_t)/mc2 - (E0-E)) /
                   sqrt( sqr(E)+sqr(E0)-2.0*c_t*E*E0 )
       else {theta = 0}
         q_calc := 0.0; {the value q in this case seems to be not important}
    end;

    {
        Computes the energy E for given Q, E0 and THETA.
        Uses equations (18-20) of H.L. Cox Jr., Phys Rev A13, 229 (1976)
        corrected by A. Tartari (private communication).
```

```
  }
function E_AT_Cox(E0 {keV}, theta {deg}, q : real): real; {keV}
  const
    mc2 = 511.04; {m c^2}
  var
    A, B, st2, qz : real;
begin
  st2   := sin(theta*Pi/360.0);     {sin(theta/2)}
  A     := 1.0+2.0*E0*sqr(st2)/mc2; {1 + 2 E0 (sin(theta/2))^2 / m c^2}
  B     := 2.0*st2;
  qz    := q/137.0;
  E_AT_Cox := 2.0*E0/(2.0*A+sqr(B*qz)-B*qz*sqrt(4.0*A+sqr(B*qz)));
end;

{
    Computes the energy E for given Q, E0 and THETA.
    Uses the inversion of J.E. Fernandez of equation (17) of
    R. Ribberfors and K.F. Berggren, Phys Rev A26, 3325 (1982).
}
function E_JEF_RB(E0 {keV}, theta {deg}, q : real): real; {keV}
  const
    mc2 = 511.04;
  var
    A, B, st2, qz : real;
begin
  st2   := sin(theta*Pi/360.0);     {sin(theta/2)}
  A     := 1.0+2.0*E0*sqr(st2)/mc2; {1 + 2 E0 (sin(theta/2))^2 / m c^2}
  qz    := q/137.0;
  B     := A - sqr(qz);
  E_JEF_RB :=
     E0*(1.0+2.0*sqr(qz*st2)/B
           +2.0*qz*st2*sqrt(B+sqr(st2)*( sqr(E0/mc2)+sqr(qz) ))/B )/
        (A+sqr(qz)+sqr(qz)*(sqr(qz)-1.0)/B);
end;

begin
  writeln('Build-up of the print files E.TXT for the calculated energy and');
  writeln('TEST-E.TXT for testing the reversibility of the used equation.');

  fn1 := 'TEST-E.TXT';
  assign(f1, fn1);
  rewrite(f1);

  fn2 := 'E.TXT';
  assign(f2, fn2);
  rewrite(f2);

  for j := 0 to 6 do
    begin
      write(f2,'Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl
      -> Data Tables 16');
      writeln(f2,', 201 (1975)] to energy in [keV]');
      writeln(f2);
      theta := j*30.0; {deg}
      writeln(f2,'Scattering angle [deg]',theta:6:1);
      writeln(f2);
      write(f2,'E [keV]:');
      for i := 1 to 10 do
        write(f2,'+----',E[i]:9,'----');
      writeln(f2);
      write(f2,'Q':8);
      for i := 1 to 10 do
        write(f2,'AT-Cox':9,'JEF-RB':9);
      writeln(f2);
      for k := -doppler_intervals to -1 do
        begin
          write(f2,-q_z[abs(k)]:8);
          for i := 1 to 10 do
            write(f2,E_AT_Cox(E[i],theta,-q_z[abs(k)]):9,
                     E_JEF_RB(E[i],theta,-q_z[abs(k)]):9);
          writeln(f2);
        end;
      for k := 0 to doppler_intervals do
        begin
          write(f2,q_z[k]:8);
          for i := 1 to 10 do
            write(f2,E_AT_Cox(E[i],theta,q_z[k]):9,
                     E_JEF_RB(E[i],theta,q_z[k]):9);
          writeln(f2);
        end;
      writeln(f2);
```

```
      writeln(f2,'AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).');
      writeln(f2,'JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys
      -> Rev A26, 3325 (1982).');
      write(f2,chr(_ff));

      write(f1,'Test of reversibility of the equations for computing the energy: ');
      writeln(f1,'the first column has the starting value of Q, the other columns');
      write(f1,'contain calculated values q_calc(E0,E_calc(E0,THETA,Q),THETA) using ');
      writeln(f1,'E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.');
      writeln(f1);
      writeln(f1,'Scattering angle [deg]',theta:6:1);
      writeln(f1);
      write(f1,'E [keV]:');
      for i := 1 to 10 do
        write(f1,'+----',E[i]:9,'----');
      writeln(f1);
      write(f1,'Q':8);
      for i := 1 to 10 do
        write(f1,'AT-Cox':9,'JEF-RB':9);
      writeln(f1);
      for k := -doppler_intervals to -1 do
        begin
          write(f1,-q_z[abs(k)]:8);
          for i := 1 to 10 do
            begin
              Ec := E_AT_Cox(E[i],theta,-q_z[abs(k)]);
              write(f1,q_calc(E[i],Ec,theta):9);
              Ec := E_JEF_RB(E[i],theta,-q_z[abs(k)]);
              write(f1,q_calc(E[i],Ec,theta):9);
            end;
          writeln(f1);
        end;
      for k := 0 to doppler_intervals do
        begin
          write(f1,q_z[k]:8);
          for i := 1 to 10 do
            begin
              Ec := E_AT_Cox(E[i],theta,q_z[k]);
              write(f1,q_calc(E[i],Ec,theta):9);
              Ec := E_JEF_RB(E[i],theta,q_z[k]);
              write(f1,q_calc(E[i],Ec,theta):9);
            end;
          writeln(f1);
        end;
      writeln(f1);
      writeln(f1,'AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).');
      writeln(f1,'JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys
      -> Rev A26, 3325 (1982).');
      write(f1,chr(_ff));
    end;
  close(f2);
  writeln('File ',fn2,' successfully closed!');
  close(f1);
  writeln('File ',fn1,' successfully closed!');
end.
```

```
program lscat 6;
{
        Reads the packed data file PACKPROF.ASC with the profiles grouped by
        binding energy and ordered increasingly, i.e. ready for numerical
        integration.
        Builds the profiles (during the reading) for given values of E0
        (incidence energy) and THETA (scattering angle), for all the elements
        of the periodic table.
        The profiles are saved in the data files PROFZxx.DAT, where xx
        stands for the atomic number Z.
}
  uses
    TpString;
  const
    _ff   = 12; { form feed, i.e. 0bh }
    doppler_intervals = 30;
    k_int = 5;
    hc    = 12.39852;              { lambda to energy conversion constant }
  type
    binding_vector = array [1..25] of real;
    q_vector       = array [0..30] of real;
    profile_array  = array [1..25] of q_vector; {[packed orbitals,components]}
    vecqz          = array [-30..30] of real;
    Pair = record
             Q : real;
             J : real;
           end;
    PairVector  = array [1..120] of Pair;
    RealArrayNP = array [1..k_int] of real;

  const
    q_z : q_vector
      = (0.00,0.05,0.10,0.15,0.20,0.30,0.40,0.50,0.60,0.70,
         0.80,1.00,1.20,1.40,1.60,1.80,2.00,2.40,3.00,4.00,
         5.00,6.00,7.00,8.00,10.00,15.00,20.00,30.00,40.00,60.00,100.00);
  var
    fn1, fn2      : string;
    f1, f2        : text;
    i, j, k       : integer;
    theta, E0,
    ww0, _E       : real;

    nshells_i  : integer;
    binding    : binding_vector;
    profile    : profile_array;

    PairVec    : PairVector;
    BindingQ   : Binding_Vector;
    npairs     : Integer;

    {
        Computes Qmax using Eqn (30) of Ribberfors and Berggren,
        Phys Rev A26, 3325 (1982).
        Note that Qmax = 137*pz_max/mc [Q being the dimentionless variable
        defined by Biggs, Mendelsohn and Mann, At Data Nucl Data tables
        16, 201 (1975)].
    }
    function q_max(E0 {keV},Ii {keV}, theta {deg}: real): real;
      const
        mc2 = 511.04; {keV}
      var
        uc_t, k_i, temp : real;
    begin
      uc_t := 1.0-cos(theta*Pi/180.0); { 1 - cos(theta) }
      k_i := E0 - Ii;                  { k0 - Ii }
      if theta <> 0.0 then Begin
        if E0 = 0.0 then
          temp := -100.0
        else
          temp := 137.0*(E0*k_i*uc_t/mc2 - Ii) / sqrt(2*uc_t*k_i*E0+sqr(Ii));
        if temp > 100.0 then
          q_max := 100.0
        else
          q_max := temp
      End
      Else {theta = 0}
        q_max := 0.0; {the value q in this case seems to be not important}
    end;

    {
        Computes the energy E for given Q, E0 and THETA.
```

```
    Uses the inversion of J.E. Fernandez of equation (17) of
    R. Ribberfors and K.F. Berggren, Phys Rev A26, 3325 (1982).
}
function E_JEF_RB(E0 {keV}, ww0, q : real): real; {keV}
  const
    mc2 = 511.04;
  var
    A, B, st2, qz, temp : real;
begin
  st2 := sqrt(0.5*(1.0-ww0));                          { sin(Theta/2) }
  A   := 1.0+2.0*E0*sqr(st2)/mc2; {1 + 2 E0 (sin(theta/2))^2 / m c^2}
  qz  := q/137.0;
  B   := A - sqr(qz);
  temp := sqrt(B+sqr(st2)*( sqr(E0/mc2)+sqr(qz) ));
  E_JEF_RB :=
     E0*( 1.0 + 2.0*sqr(qz*st2)/B + 2.0*qz*st2*temp/B )/
        ( A + sqr(qz) + sqr(qz)*(sqr(qz)-1.0)/B );
end;

PROCEDURE polint(xa, ya: RealArrayNP;
                     n: integer;
                     x: real;
                 VAR y, dy: real);
(* Programs using routine POLINT must define the type
TYPE
   glnarray = ARRAY [1..n] OF real;
in the main routine. *)
VAR
   ns,m,i: integer;
   w,hp,ho,dift,dif,den: real;
   c,d: ^RealArrayNP;
BEGIN
   new(c);
   new(d);
   ns := 1;
   dif := abs(x-xa[1]);
   FOR i := 1 to n DO BEGIN
      dift := abs(x-xa[i]);
      IF dift < dif THEN BEGIN
         ns := i;
         dif := dift
      END;
      c^[i] := ya[i];
      d^[i] := ya[i]
   END;
   y := ya[ns];
   ns := ns-1;
   FOR m := 1 to n-1 DO BEGIN
      FOR i := 1 to n-m DO BEGIN
         ho := xa[i]-x;
         hp := xa[i+m]-x;
         w := c^[i+1]-d^[i];
         den := ho-hp;
         IF den = 0.0 THEN BEGIN
            writeln ('pause in routine POLINT');
            readln
         END;
         den := w/den;
         d^[i] := hp*den;
         c^[i] := ho*den
      END;
      IF (2*ns) < (n-m) THEN
         dy := c^[ns+1]
      ELSE BEGIN
         dy := d^[ns];
         ns := ns-1
      END;
      y := y+dy
   END;
   dispose(d);
   dispose(c);
END;

procedure build_vector(var P: PairVector;
                       var npairs: integer;
                        nshells_i: integer;
                              VAR q: q_vector;
                      VAR bindingQ: binding_vector;
                       VAR profile: profile_array);
  var
    i, j, k, j1, ThisProfile : integer;
```

```
    _q, _q_max, delta        : real;
    q1, prof                 : RealArrayNP;
begin
  npairs := 1;
  ThisProfile := 1;
  j := doppler_intervals;
  i := 1;
  while (i <= nshells_i) and (j >= -doppler_intervals) do Begin
    _q_max := BindingQ[i];
    if j < 0 then _q := -q[abs(j)] else _q := q[j];
    if _q > _q_max then Begin
      P[npairs].Q := _q;
      if ThisProfile = 1 then
        P[npairs].J := 0.0
      Else
        P[npairs].J := profile[ThisProfile-1,abs(j)];
      {writeln(f2,P[npairs].Q:10,P[npairs].J:9);}
      Dec(j);
    End
    Else if _q = _q_max then Begin
      if _q = 100.0 then Begin
        Inc(ThisProfile);
        Inc(i);
        Dec(npairs);
      End
      Else Begin
        P[npairs].Q := _q_max;
        if ThisProfile = 1 then
          P[npairs].J := 0.0
        Else
          P[npairs].J := profile[ThisProfile-1,abs(j)];
        {writeln(f2,P[npairs].Q:10,P[npairs].J:9);}
        Inc(npairs);
        Inc(ThisProfile);
        P[npairs].Q := _q_max;
        P[npairs].J := profile[ThisProfile-1,abs(j)];
        {writeln(f2,P[npairs].Q:10,P[npairs].J:9);
        Flush(f2);}
        Inc(i);
        Dec(j);
      End
    End
    Else Begin
      P[npairs].Q := _q_max;
      if ThisProfile = 1 Then
        P[npairs].J := 0.0
      Else Begin
        if j > 0 then j1 := j+1 else j1 := abs(j);
        if j1 > k_int then Begin
          for k := 1 to k_int do q1[k] := q[j1-k_int+k];
          for k := 1 to k_int do prof[k] := profile[ThisProfile-1,j1-k_int+k];
          {for k := 1 to k_int do write(f2,q1[k]:10);
          writeln(f2);
          for k := 1 to k_int do write(f2,prof[k]:10);
          writeln(f2);}
          for k := 1 to k_int do prof[k] := ln(prof[k]);
          {for k := 1 to k_int do write(f2,prof[k]:10);
          writeln(f2);
          Flush(f2);}
          PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
          P[npairs].J := exp(P[npairs].J);
        End
        Else Begin
          for k := 1 to k_int do q1[k] := q[k-1];
          for k := 1 to k_int do prof[k] := profile[ThisProfile-1,k-1];
          {for k := 1 to k_int do write(f2,q1[k]:10);
          writeln(f2);
          for k := 1 to k_int do write(f2,prof[k]:10);
          writeln(f2);
          Flush(f2);}
          PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
        End;
      End;
      {writeln(f2,P[npairs].Q:10,P[npairs].J:9);
      Flush(f2);}
      Inc(npairs);
      Inc(ThisProfile);
      P[npairs].Q := _q_max;
      {
      for k := 0 to doppler_intervals do write(f2,q[k]:9);
      writeln(f2);
```

```
          for k := 0 to doppler_intervals do write(f2,Profile[ThisProfile][k]:9);
          writeln(f2);
          Flush(f2);
          }
          if j > 0 then j1 := j+1 else j1 := abs(j);
          if j1 > k_int then Begin
            for k := 1 to k_int do q1[k] := q[j1-k_int+k];
            for k := 1 to k_int do prof[k] := profile[ThisProfile-1,j1-k_int+k];
            {for k := 1 to k_int do write(f2,q1[k]:10);
            writeln(f2);
            for k := 1 to k_int do write(f2,prof[k]:10);
            writeln(f2);}
            for k := 1 to k_int do prof[k] := ln(prof[k]);
            {for k := 1 to k_int do write(f2,prof[k]:10);
            writeln(f2);
            Flush(f2);}
            PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
            P[npairs].J := exp(P[npairs].J);
          End
          Else Begin
            for k := 1 to k_int do q1[k] := q[k-1];
            for k := 1 to k_int do prof[k] := profile[ThisProfile-1,k-1];
            {for k := 1 to k_int do write(f2,q1[k]:10);
            writeln(f2);
            for k := 1 to k_int do write(f2,prof[k]:10);
            writeln(f2);
            Flush(f2);}
            PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
          End;
          {writeln(f2,P[npairs].Q:10,P[npairs].J:9);
          Flush(f2);}
          Inc(i);
        End;
        Inc(npairs);
      End;
      for i := j downto -doppler_intervals do Begin
        if i < 0 then
          P[npairs].Q := -q[abs(i)]
        Else
          P[npairs].Q := q[i];
        P[npairs].J := profile[ThisProfile-1,abs(i)];
        {writeln(f2,P[npairs].Q:10,P[npairs].J:9);}
        Inc(npairs);
      End;
      Dec(npairs);
    end;

    function S_IA(E0, theta : real;
                  VAR q : q_vector;
              VAR binding : binding_vector;
              VAR profile : profile_array): real;
    begin
    end;

begin
  fn1 := 'PACKPROF.ASC';
  assign(f1, fn1);
  reset(f1);

  writeln('Build-up of the data files PROFZxx.DAT with total profiles for the elements.');
  writeln;
  write('Excitation energy [keV] = ');
  readln(E0);
  write('Scattering angle [deg] = ');
  readln(theta);

  { Get data from the file PACKPROF.ASC }
  while not eof(f1) do
    begin

      readln(f1,j,nshells_i);

      for i := 1 to nshells_i do read(f1,binding[i]);

      for k := 0 to 30 do
        for i := 1 to nshells_i do read(f1,profile[i,k]); {read in this order}
      readln(f1);

      fn2 := 'PROFZ'+LeftPadCh(Long2Str(j),'0',2)+'.DAT';
      assign(f2, fn2);
      rewrite(f2);
```

```
      for i := 1 to nshells_i do
        BindingQ[i] := q_max(E0,binding[i],theta);
      build_vector(PairVec, npairs, nshells_i, q_z, bindingQ, profile);

      for i := 1 to npairs do Begin
        ww0 := cos(Theta*Pi/180.0);
        _E := E_JEF_RB(E0,ww0,PairVec[i].Q);
        writeln(f2,PairVec[i].Q:13,PairVec[i].J:13,_E:13,(hc/_E):13);
      End;
      writeln(f2);
      close(f2);
      writeln('File ',fn2,' successfully closed!');

    end;
  close(f1);
end.
```

```
program lscat_7;
{
        Reads the packed data file PACKPROF.ASC with the profiles grouped by
        binding energy and ordered increasingly, i.e. ready for numerical
        integration. The reading is performed on heap variables to make
        possible the storage in memory of the data.
        Integrates the profiles for given values of X (momentum transfer)
        and builds-up a table of scattering functions that can be compared
        with the equivalent one produced with fitting coefficients.
        The table in this case is richer because the scattering function
        in the Impulse Approximation is a function of both, E0 and THETA,
        and not only on X as in the Waller-Hartree theory. The function
        S is computed for the X values of the table of Hubbell et al.,
        but at three different values of THETA (30, 90 and 150 degrees).
        The incidence energy E0 is consistent with the value of X.
}
  uses
    TpString;
  const
    _ff = 12; { form feed, i.e. 0bh }
    doppler_intervals = 30;
    k_int = 5;
  type
    q_vector       = array [0..30] of real;
    binding_vector = array [1..25] of real;
    profile_array  = array [1..25] of q_vector; {[packed orbitals,components]}

    ProfArrPtr     = ^profile_array;
    shell_numbers  = array [1..92] of integer;
    all_bindings   = array [1..92] of binding_vector;
    all_profiles   = array [1..92] of ProfArrPtr;
    AllBindPtr     = ^all_bindings;

    vecqz          = array [-30..30] of real;
    Pair = record
             Q : real;
             J : real;
           end;
    PairVector  = array [1..120] of Pair;
    RealArrayNP = array [1..k_int] of real;

  const
    q_z : q_vector
      = (0.00,0.05,0.10,0.15,0.20,0.30,0.40,0.50,0.60,0.70,
         0.80,1.00,1.20,1.40,1.60,1.80,2.00,2.40,3.00,4.00,
         5.00,6.00,7.00,8.00,10.00,15.00,20.00,30.00,40.00,60.00,100.00);
  var
    fn2         : string;
    f2          : text;
    i, j        : integer;
    theta, E0   : real;

    nshells     : shell_numbers;
    ProfilePtr  : ProfArrPtr;
    Profile     : all_profiles;

    PairVec     : PairVector;
    Binding     : AllBindPtr;
    npairs      : Integer;

    N_X         : integer;
    X           : array [1..100] of real;

    {
        Computes Qmax using Eqn (30) of Ribberfors and Berggren,
        Phys Rev A26, 3325 (1982).
        Note that Qmax = 137*pz_max/mc [Q being the dimentionless variable
        defined by Biggs, Mendelsohn and Mann, At Data Nucl Data tables
        16, 201 (1975)].
    }
    function q_max(E0 {keV},Ii {keV}, theta {deg}: real): real;
      const
        mc2 = 511.04; {keV}
      var
        uc_t, k_i, temp : real;
    begin
      uc_t := 1.0-cos(theta*Pi/180.0); { 1 - cos(theta) }
      k_i := E0 - Ii;                  { k0 - Ii }
      if theta <> 0.0 then Begin
        if E0 = 0.0 then
          temp := -100.0
```

```
      else
        temp := 137.0*(E0*k_i*uc_t/mc2 - Ii) / sqrt(2*uc_t*k_i*E0+sqr(Ii));
      if temp > 100.0 then
        q_max := 100.0
      else
        q_max := temp
    End
    Else {theta = 0}
      q_max := 0.0; {the value q in this case seems to be not important}
end;

PROCEDURE polint(xa, ya: RealArrayNP;
                     n: integer;
                     x: real;
              VAR y, dy: real);
(* Programs using routine POLINT must define the type
TYPE
   glnarray = ARRAY [1..n] OF real;
in the main routine. *)
VAR
   ns,m,i: integer;
   w,hp,ho,dift,dif,den: real;
   c,d: ^RealArrayNP;
BEGIN
   new(c);
   new(d);
   ns := 1;
   dif := abs(x-xa[1]);
   FOR i := 1 to n DO BEGIN
      dift := abs(x-xa[i]);
      IF dift < dif THEN BEGIN
         ns := i;
         dif := dift
      END;
      c^[i] := ya[i];
      d^[i] := ya[i]
   END;
   y := ya[ns];
   ns := ns-1;
   FOR m := 1 to n-1 DO BEGIN
      FOR i := 1 to n-m DO BEGIN
         ho := xa[i]-x;
         hp := xa[i+m]-x;
         w := c^[i+1]-d^[i];
         den := ho-hp;
         IF den = 0.0 THEN BEGIN
            writeln ('pause in routine POLINT');
            readln
         END;
         den := w/den;
         d^[i] := hp*den;
         c^[i] := ho*den
      END;
      IF (2*ns) < (n-m) THEN
         dy := c^[ns+1]
      ELSE BEGIN
         dy := d^[ns];
         ns := ns-1
      END;
      y := y+dy
   END;
   dispose(d);
   dispose(c);
END;

{
    Using the vector of Qmax, the number of shells, and the profile
    array of a given element, builds a vector of ordered pairs with
    Q and J in the places of X and Y, respectively.
    The vector represents the total profile of the element.
}
procedure build vector(var P: PairVector;
                   var npairs: integer;
                    nshells_i: integer;
                        VAR q: q_vector;
                  VAR bindingQ: binding_vector;
                   VAR profile: profile_array);
  var
    i, j, k, j1, ThisProfile : integer;
    _q, _q_max, delta        : real;
    q1, prof                 : RealArrayNP;
```

```
begin
  npairs := 1;
  ThisProfile := 1;
  j := doppler_intervals;
  i := 1;
  while (i <= nshells_i) and (j >= -doppler_intervals) do Begin
    _q_max := BindingQ[i];
    if j < 0 then _q := -q[abs(j)] else _q := q[j];
    if _q > _q_max then Begin
      P[npairs].Q := _q;
      if ThisProfile = 1 then
        P[npairs].J := 0.0
      Else
        P[npairs].J := profile[ThisProfile-1,abs(j)];
      Dec(j);
    End
    Else if _q = _q_max then Begin
      if _q = 100.0 then Begin
        Inc(ThisProfile);
        Inc(i);
        Dec(npairs);
      End
      Else Begin
        P[npairs].Q := _q_max;
        if ThisProfile = 1 then
          P[npairs].J := 0.0
        Else
          P[npairs].J := profile[ThisProfile-1,abs(j)];
        Inc(npairs);
        Inc(ThisProfile);
        P[npairs].Q := _q_max;
        P[npairs].J := profile[ThisProfile-1,abs(j)];
        Inc(i);
        Dec(j);
      End
    End
    Else Begin
      P[npairs].Q := _q_max;
      if ThisProfile = 1 Then
        P[npairs].J := 0.0
      Else Begin
        if j > 0 then j1 := j+1 else j1 := abs(j);
        if j1 > k_int then Begin
          for k := 1 to k_int do q1[k] := q[j1-k_int+k];
          for k := 1 to k_int do prof[k] := profile[ThisProfile-1,j1-k_int+k];
          for k := 1 to k_int do prof[k] := ln(prof[k]);
          PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
          P[npairs].J := exp(P[npairs].J);
        End
        Else Begin
          for k := 1 to k_int do q1[k] := q[k-1];
          for k := 1 to k_int do prof[k] := profile[ThisProfile-1,k-1];
          PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
        End;
      End;
      Inc(npairs);
      Inc(ThisProfile);
      P[npairs].Q := _q_max;
      if j > 0 then j1 := j+1 else j1 := abs(j);
      if j1 > k_int then Begin
        for k := 1 to k_int do q1[k] := q[j1-k_int+k];
        for k := 1 to k_int do prof[k] := profile[ThisProfile-1,j1-k_int+k];
        for k := 1 to k_int do prof[k] := ln(prof[k]);
        PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
        P[npairs].J := exp(P[npairs].J);
      End
      Else Begin
        for k := 1 to k_int do q1[k] := q[k-1];
        for k := 1 to k_int do prof[k] := profile[ThisProfile-1,k-1];
        PolInt(q1,prof,k_int,abs(_q_max),P[npairs].J,delta);
      End;
      Inc(i);
    End;
    Inc(npairs);
  End;
  for i := j downto -doppler_intervals do Begin
    if i < 0 then
      P[npairs].Q := -q[abs(i)]
    Else
      P[npairs].Q := q[i];
    P[npairs].J := profile[ThisProfile-1,abs(i)];
```

```
    Inc(npairs);
  End;
  Dec(npairs);
end;

{
    For given E0 (incidence energy, in keV) and THETA (scattering angle,
    in deg), builds the total profile for the element Z (atomic
    number).
    In the resulting vector, Q and J are in the places of X and Y,
    respectively.
}
procedure Total_Profile(Z: integer; { atomic number of the element [1..92] }
                        E0: real;    { energy in keV }
                     Theta: real;    { scattering angle in degrees }
                     var P: PairVector;
                var npairs: integer);
  var
    i        : integer;
    BindingQ : Binding_Vector;
begin
  for i := 1 to nshells[Z] do
    BindingQ[i] := q_max(E0,binding^[Z][i],theta);
  build_vector(P, npairs, nshells[Z], q_z, bindingQ, Profile[Z]^);
end;

function Trap(VAR P: PairVector;
          VAR npairs: integer): real;
  var
    i   : integer;
    Sum : real;
begin
  Sum := 0.0;
  for i := 2 to npairs do Begin
    Sum := Sum + 0.5 * (P[i-1].Q - P[i].Q) * (P[i].J + P[i-1].J);
  End;
  Trap := Sum;
end;

{
    Scattering function [within the Impulse Approximation (IA)]
    for an element with atomic number Z.
    S_IA is computed as a trapezoidal integral (in dQ) of the total
    profile at the incidence energy E0 and the scattering angle THETA.
}
function S_IA(Z: integer;      { atomic number of the element [1..92] }
              E0: real;        { energy in keV }
           Theta: real): real; { scattering angle in degrees }
  var
    P      : PairVector;
    npairs : integer;
begin
  Total_Profile(Z, E0, Theta, P, npairs);
  S_IA := Trap(P, npairs);
end;

{
    Reads the cummulative profiles grouped by binding energy
    on heap variables to make possible the storage in memory.
    The data is stored in the global variables:
     NSHELLS[j]  : the number of (groups of) shells of element j;
     PROFILE[j]^ : the array of profiles of element j. The k-th
                   element [k=0..30], of the i-th packed shell
                   [i=1..25], is accessed with PROFILE[j]^[i,k];
     BINDING^[j] : the vector of binding energies (in keV) for
                   element j. The binding energy of the i-th group
                   of shells is accessed with BINDING^[j][i].
}
procedure ReadProfiles;
  var
    i, j, k : integer;
    fn1     : string;
    f1      : text;
begin
  fn1 := 'PACKPROF.ASC';
  assign(f1, fn1);
  reset(f1);
  writeln('Reading ',fn1,'...');
  new(Binding);
  while not eof(f1) do
    begin
```

```
          readln(f1,j,nshells[j]);
          for i := 1 to nshells[j] do read(f1,binding^[j][i]);
          new(ProfilePtr);
          for k := 0 to 30 do
            for i := 1 to nshells[j] do read(f1,ProfilePtr^[i,k]); {read in this order}
          readln(f1);
          Profile[j] := ProfilePtr;
        end;
      close(f1);
      writeln('File ',fn1,' was read successfully!');
    end;

    procedure BuildXVector(var NN: integer);
      const
        Max_N_X = 45;
        Hubbell_X :  array [1..Max_N_X] of real { Hubbell X vector }
         = (0, 5E-3, 1E-2, 1.5E-2, 2E-2, 2.5E-2, 3E-2, 4E-2, 5E-2, 7E-2, 9E-2,
            1E-1, 1.25E-1, 1.5E-1, 1.75E-1, 2E-1, 2.5E-1, 3E-1, 4E-1, 5E-1,
            6E-1, 7E-1, 8E-1, 9E-1, 1, 1.25, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 7,
            8, 10, 15, 20, 50, 80, 100, 1000, 1E6, 1E9);
      var
        i : integer;
    begin
      NN := Max_N_X;
      for i := 1 to NN do
        X[i] := Hubbell_X[i];
    end;

begin
  writeln('Build-up of the data files FFZxx.DAT with scattering functions for the elements.');
  writeln;
  writeln('The four columns in the files mean: X [A-1] S(THETA=30) S(THETA=90) S(THETA=150)');
  writeln;

  { Get data from the file PACKPROF.ASC }
  ReadProfiles;

  BuildXVector(N_X); {this procedure is only necessary in this program}

  for j := 1 to 92 do Begin
    fn2 := 'FFZ'+LeftPadCh(Long2Str(j),'0',2)+'.DAT';
    assign(f2, fn2);
    rewrite(f2);

    for i := 1 to N_X do Begin
      Theta := 30;
      E0 := X[i] * 12.399 / sqr(sin(Theta*Pi/360.0));
      Total_Profile(j,E0,Theta,PairVec,npairs);
      write(f2,X[i]:13,Trap(PairVec,npairs):13);
      Flush(f2);
      Theta := 90;
      E0 := X[i] * 12.399 / sqr(sin(Theta*Pi/360.0));
      Total_Profile(j,E0,Theta,PairVec,npairs);
      write(f2,Trap(PairVec,npairs):13);
      Flush(f2);
      Theta := 150;
      E0 := X[i] * 12.399 / sqr(sin(Theta*Pi/360.0));
      Total_Profile(j,E0,Theta,PairVec,npairs);
      writeln(f2,Trap(PairVec,npairs):13);
      Flush(f2);
    End;

    close(f2);
    writeln('File ',fn2,' successfully closed!');
  End;

end.
```

Z= 1

Compton profiles for the single orbitals and binding energies

q_z	1s+(1)	Total
0.0E+00	8.49E-01	8.49E-01
5.0E-02	8.42E-01	8.42E-01
1.0E-01	8.24E-01	8.24E-01
1.5E-01	7.94E-01	7.94E-01
2.0E-01	7.55E-01	7.55E-01
3.0E-01	6.55E-01	6.55E-01
4.0E-01	5.44E-01	5.44E-01
5.0E-01	4.35E-01	4.35E-01
6.0E-01	3.37E-01	3.37E-01
7.0E-01	2.57E-01	2.57E-01
8.0E-01	1.92E-01	1.92E-01
1.0E+00	1.06E-01	1.06E-01
1.2E+00	5.84E-02	5.84E-02
1.4E+00	3.27E-02	3.27E-02
1.6E+00	1.88E-02	1.88E-02
1.8E+00	1.11E-02	1.11E-02
2.0E+00	6.79E-03	6.79E-03
2.4E+00	2.75E-03	2.75E-03
3.0E+00	8.49E-04	8.49E-04
4.0E+00	1.73E-04	1.73E-04
5.0E+00	4.83E-05	4.83E-05
6.0E+00	1.68E-05	1.68E-05
7.0E+00	6.79E-06	6.79E-06
8.0E+00	3.09E-06	3.09E-06
1.0E+01	8.20E-07	8.20E-07
1.5E+01	7.40E-08	7.40E-08
2.0E+01	1.30E-08	1.30E-08
3.0E+01	1.20E-09	1.20E-09
4.0E+01	2.30E-10	2.30E-10
6.0E+01	4.30E-11	4.30E-11
1.0E+02	2.60E-11	2.60E-11

E[keV]: 1.40E-02

Cumulative Compton profiles for the single orbitals and binding energies

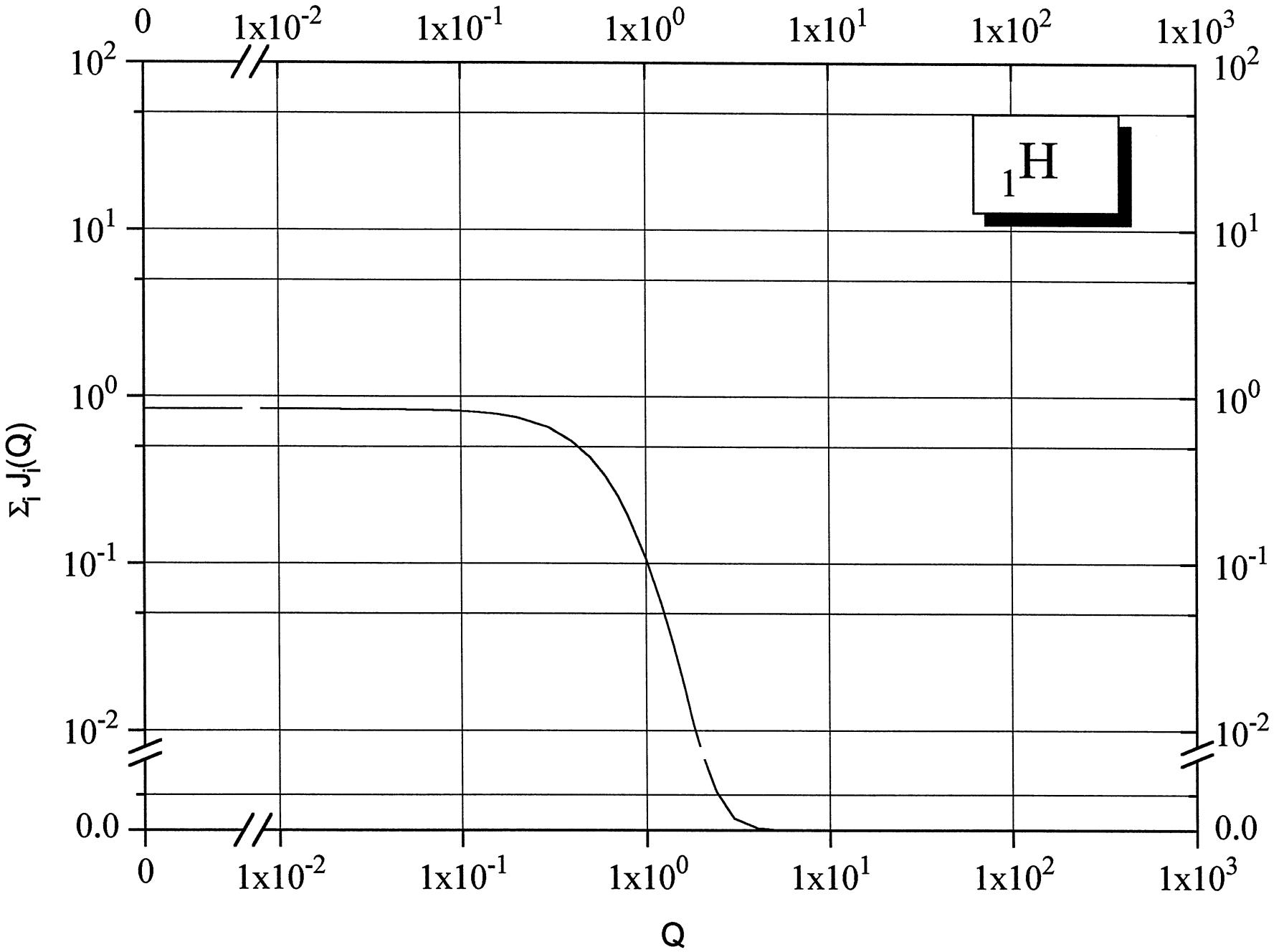
q_z	1s+(1)	Total
0.0E+00	8.49E-01	8.49E-01
5.0E-02	8.42E-01	8.42E-01
1.0E-01	8.24E-01	8.24E-01
1.5E-01	7.94E-01	7.94E-01
2.0E-01	7.55E-01	7.55E-01
3.0E-01	6.55E-01	6.55E-01
4.0E-01	5.44E-01	5.44E-01
5.0E-01	4.35E-01	4.35E-01
6.0E-01	3.37E-01	3.37E-01
7.0E-01	2.57E-01	2.57E-01
8.0E-01	1.92E-01	1.92E-01
1.0E+00	1.06E-01	1.06E-01
1.2E+00	5.84E-02	5.84E-02
1.4E+00	3.27E-02	3.27E-02
1.6E+00	1.88E-02	1.88E-02
1.8E+00	1.11E-02	1.11E-02
2.0E+00	6.79E-03	6.79E-03
2.4E+00	2.75E-03	2.75E-03
3.0E+00	8.49E-04	8.49E-04
4.0E+00	1.73E-04	1.73E-04
5.0E+00	4.83E-05	4.83E-05
6.0E+00	1.68E-05	1.68E-05
7.0E+00	6.79E-06	6.79E-06
8.0E+00	3.09E-06	3.09E-06
1.0E+01	8.20E-07	8.20E-07
1.5E+01	7.40E-08	7.40E-08
2.0E+01	1.30E-08	1.30E-08
3.0E+01	1.20E-09	1.20E-09
4.0E+01	2.30E-10	2.30E-10
6.0E+01	4.30E-11	4.30E-11
1.0E+02	2.60E-11	2.60E-11

E[keV]: 1.40E-02

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z	
0.0E+00	8.49E-01 8.49E-01
5.0E-02	8.42E-01 8.42E-01
1.0E-01	8.24E-01 8.24E-01
1.5E-01	7.94E-01 7.94E-01
2.0E-01	7.55E-01 7.55E-01
3.0E-01	6.55E-01 6.55E-01
4.0E-01	5.44E-01 5.44E-01
5.0E-01	4.35E-01 4.35E-01
6.0E-01	3.37E-01 3.37E-01
7.0E-01	2.57E-01 2.57E-01
8.0E-01	1.92E-01 1.92E-01
1.0E+00	1.06E-01 1.06E-01
1.2E+00	5.84E-02 5.84E-02
1.4E+00	3.27E-02 3.27E-02
1.6E+00	1.88E-02 1.88E-02
1.8E+00	1.11E-02 1.11E-02
2.0E+00	6.79E-03 6.79E-03
2.4E+00	2.75E-03 2.75E-03
3.0E+00	8.49E-04 8.49E-04
4.0E+00	1.73E-04 1.73E-04
5.0E+00	4.83E-05 4.83E-05
6.0E+00	1.68E-05 1.68E-05
7.0E+00	6.79E-06 6.79E-06
8.0E+00	3.09E-06 3.09E-06
1.0E+01	8.20E-07 8.20E-07
1.5E+01	7.40E-08 7.40E-08
2.0E+01	1.30E-08 1.30E-08
3.0E+01	1.20E-09 1.20E-09
4.0E+01	2.30E-10 2.30E-10
6.0E+01	4.30E-11 4.30E-11
1.0E+02	2.60E-11 2.60E-11

E[keV]: 1.40E-02


0
1x10-2
1x10-1
1x100
1x101
1x102
1x103
102
101
100
10-1
10-2
0.0
1H
Σi Ji(Q)
Q

Z= 2

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	Total
0.0E+00	5.35E-01	1.07E+00
5.0E-02	5.34E-01	1.07E+00
1.0E-01	5.28E-01	1.06E+00
1.5E-01	5.20E-01	1.04E+00
2.0E-01	5.09E-01	1.02E+00
3.0E-01	4.78E-01	9.56E-01
4.0E-01	4.39E-01	8.78E-01
5.0E-01	3.96E-01	7.91E-01
6.0E-01	3.50E-01	7.00E-01
7.0E-01	3.06E-01	6.11E-01
8.0E-01	2.64E-01	5.27E-01
1.0E+00	1.91E-01	3.82E-01
1.2E+00	1.36E-01	2.71E-01
1.4E+00	9.55E-02	1.91E-01
1.6E+00	6.72E-02	1.34E-01
1.8E+00	4.76E-02	9.52E-02
2.0E+00	3.40E-02	6.80E-02
2.4E+00	1.79E-02	3.58E-02
3.0E+00	7.40E-03	1.48E-02
4.0E+00	2.06E-03	4.13E-03
5.0E+00	6.98E-04	1.40E-03
6.0E+00	2.74E-04	5.47E-04
7.0E+00	1.20E-04	2.40E-04
8.0E+00	5.78E-05	1.16E-04
1.0E+01	1.60E-05	3.30E-05
1.5E+01	1.60E-06	3.20E-06
2.0E+01	2.90E-07	5.80E-07
3.0E+01	2.60E-08	5.20E-08
4.0E+01	4.70E-09	9.30E-09
6.0E+01	4.30E-10	8.60E-10
1.0E+02	3.90E-11	7.80E-11

E[keV]: 2.46E-02

Cumulative Compton profiles for the single orbitals and binding energies

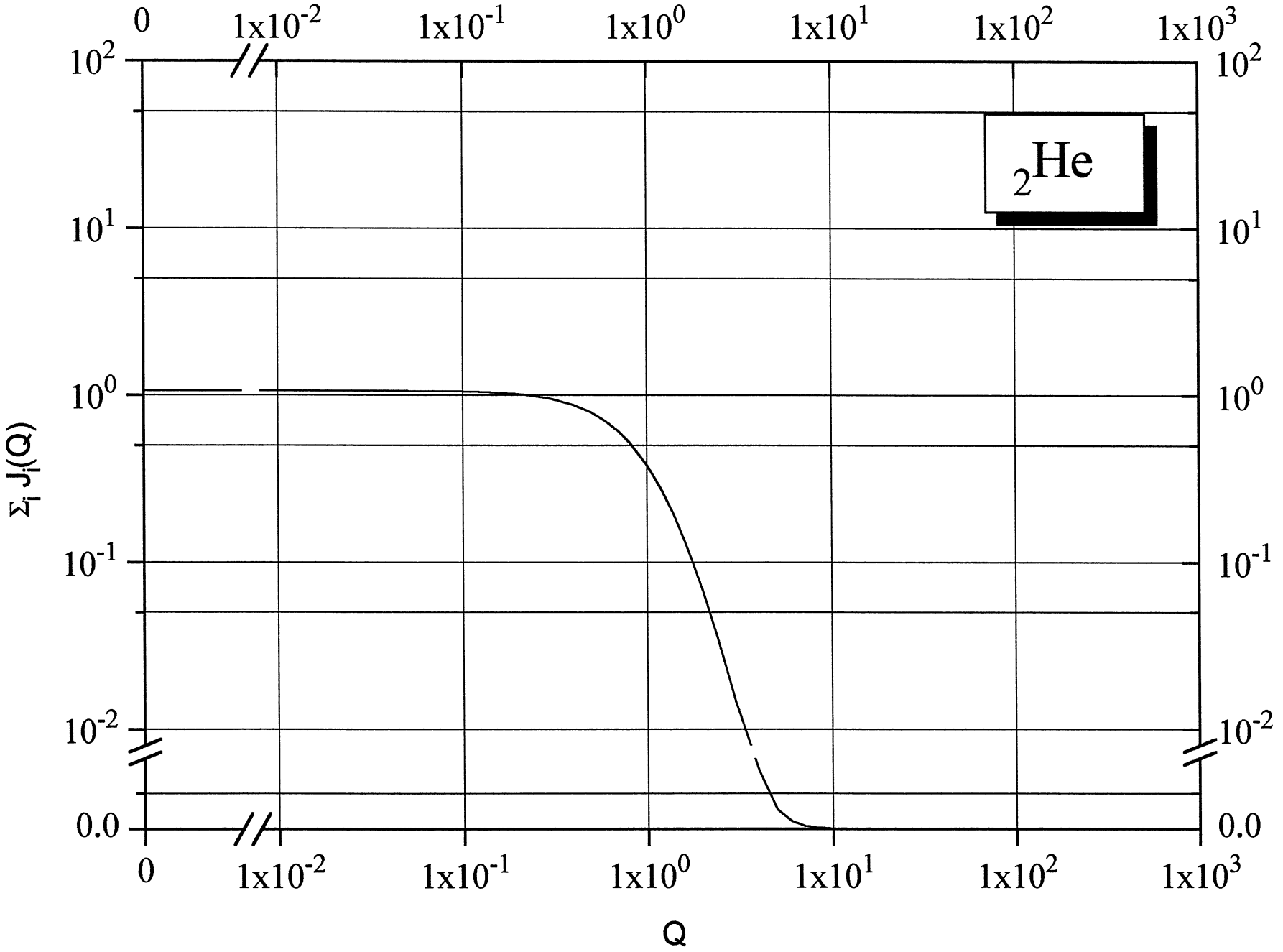
q_z	1s+(2)	Total
0.0E+00	1.07E+00	1.07E+00
5.0E-02	1.07E+00	1.07E+00
1.0E-01	1.06E+00	1.06E+00
1.5E-01	1.04E+00	1.04E+00
2.0E-01	1.02E+00	1.02E+00
3.0E-01	9.56E-01	9.56E-01
4.0E-01	8.78E-01	8.78E-01
5.0E-01	7.92E-01	7.91E-01
6.0E-01	7.00E-01	7.00E-01
7.0E-01	6.12E-01	6.11E-01
8.0E-01	5.28E-01	5.27E-01
1.0E+00	3.82E-01	3.82E-01
1.2E+00	2.72E-01	2.71E-01
1.4E+00	1.91E-01	1.91E-01
1.6E+00	1.34E-01	1.34E-01
1.8E+00	9.52E-02	9.52E-02
2.0E+00	6.80E-02	6.80E-02
2.4E+00	3.58E-02	3.58E-02
3.0E+00	1.48E-02	1.48E-02
4.0E+00	4.12E-03	4.13E-03
5.0E+00	1.40E-03	1.40E-03
6.0E+00	5.48E-04	5.47E-04
7.0E+00	2.40E-04	2.40E-04
8.0E+00	1.16E-04	1.16E-04
1.0E+01	3.20E-05	3.30E-05
1.5E+01	3.20E-06	3.20E-06
2.0E+01	5.80E-07	5.80E-07
3.0E+01	5.20E-08	5.20E-08
4.0E+01	9.40E-09	9.30E-09
6.0E+01	8.60E-10	8.60E-10
1.0E+02	7.80E-11	7.80E-11

E[keV]: 2.46E-02

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z	
0.0E+00	1.07E+00 1.07E+00
5.0E-02	1.07E+00 1.07E+00
1.0E-01	1.06E+00 1.06E+00
1.5E-01	1.04E+00 1.04E+00
2.0E-01	1.02E+00 1.02E+00
3.0E-01	9.56E-01 9.56E-01
4.0E-01	8.78E-01 8.78E-01
5.0E-01	7.92E-01 7.91E-01
6.0E-01	7.00E-01 7.00E-01
7.0E-01	6.12E-01 6.11E-01
8.0E-01	5.28E-01 5.27E-01
1.0E+00	3.82E-01 3.82E-01
1.2E+00	2.72E-01 2.71E-01
1.4E+00	1.91E-01 1.91E-01
1.6E+00	1.34E-01 1.34E-01
1.8E+00	9.52E-02 9.52E-02
2.0E+00	6.80E-02 6.80E-02
2.4E+00	3.58E-02 3.58E-02
3.0E+00	1.48E-02 1.48E-02
4.0E+00	4.12E-03 4.13E-03
5.0E+00	1.40E-03 1.40E-03
6.0E+00	5.48E-04 5.47E-04
7.0E+00	2.40E-04 2.40E-04
8.0E+00	1.16E-04 1.16E-04
1.0E+01	3.20E-05 3.30E-05
1.5E+01	3.20E-06 3.20E-06
2.0E+01	5.80E-07 5.80E-07
3.0E+01	5.20E-08 5.20E-08
4.0E+01	9.40E-09 9.30E-09
6.0E+01	8.60E-10 8.60E-10
1.0E+02	7.80E-11 7.80E-11

E[keV]: 2.46E-02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Σi Ji(Q)
Q
2He

Z= 3

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(1)	Total
0.0E+00	3.29E-01	1.94E+00	2.59E+00
5.0E-02	3.28E-01	1.87E+00	2.53E+00
1.0E-01	3.27E-01	1.69E+00	2.34E+00
1.5E-01	3.25E-01	1.43E+00	2.08E+00
2.0E-01	3.22E-01	1.14E+00	1.78E+00
3.0E-01	3.15E-01	6.12E-01	1.24E+00
4.0E-01	3.05E-01	2.74E-01	8.84E-01
5.0E-01	2.93E-01	1.08E-01	6.93E-01
6.0E-01	2.79E-01	4.11E-02	5.98E-01
7.0E-01	2.63E-01	1.94E-02	5.46E-01
8.0E-01	2.47E-01	1.41E-02	5.08E-01
1.0E+00	2.13E-01	1.34E-02	4.39E-01
1.2E+00	1.80E-01	1.20E-02	3.72E-01
1.4E+00	1.49E-01	9.58E-03	3.08E-01
1.6E+00	1.22E-01	7.24E-03	2.51E-01
1.8E+00	9.90E-02	5.36E-03	2.03E-01
2.0E+00	7.98E-02	3.95E-03	1.64E-01
2.4E+00	5.13E-02	2.18E-03	1.05E-01
3.0E+00	2.66E-02	9.62E-04	5.41E-02
4.0E+00	9.43E-03	2.95E-04	1.92E-02
5.0E+00	3.71E-03	1.08E-04	7.53E-03
6.0E+00	1.61E-03	4.48E-05	3.27E-03
7.0E+00	7.64E-04	2.06E-05	1.55E-03
8.0E+00	3.89E-04	1.03E-05	7.88E-04
1.0E+01	1.20E-04	3.10E-06	2.40E-04
1.5E+01	1.20E-05	3.10E-07	2.50E-05
2.0E+01	2.40E-06	5.90E-08	4.80E-06
3.0E+01	2.20E-07	5.40E-09	4.40E-07
4.0E+01	3.90E-08	9.60E-10	7.90E-08
6.0E+01	3.50E-09	8.60E-11	7.10E-09
1.0E+02	1.80E-10	4.40E-12	3.60E-10

E[keV]: 5.48E-02 1.00E-03

Cumulative Compton profiles for the single orbitals and binding energies

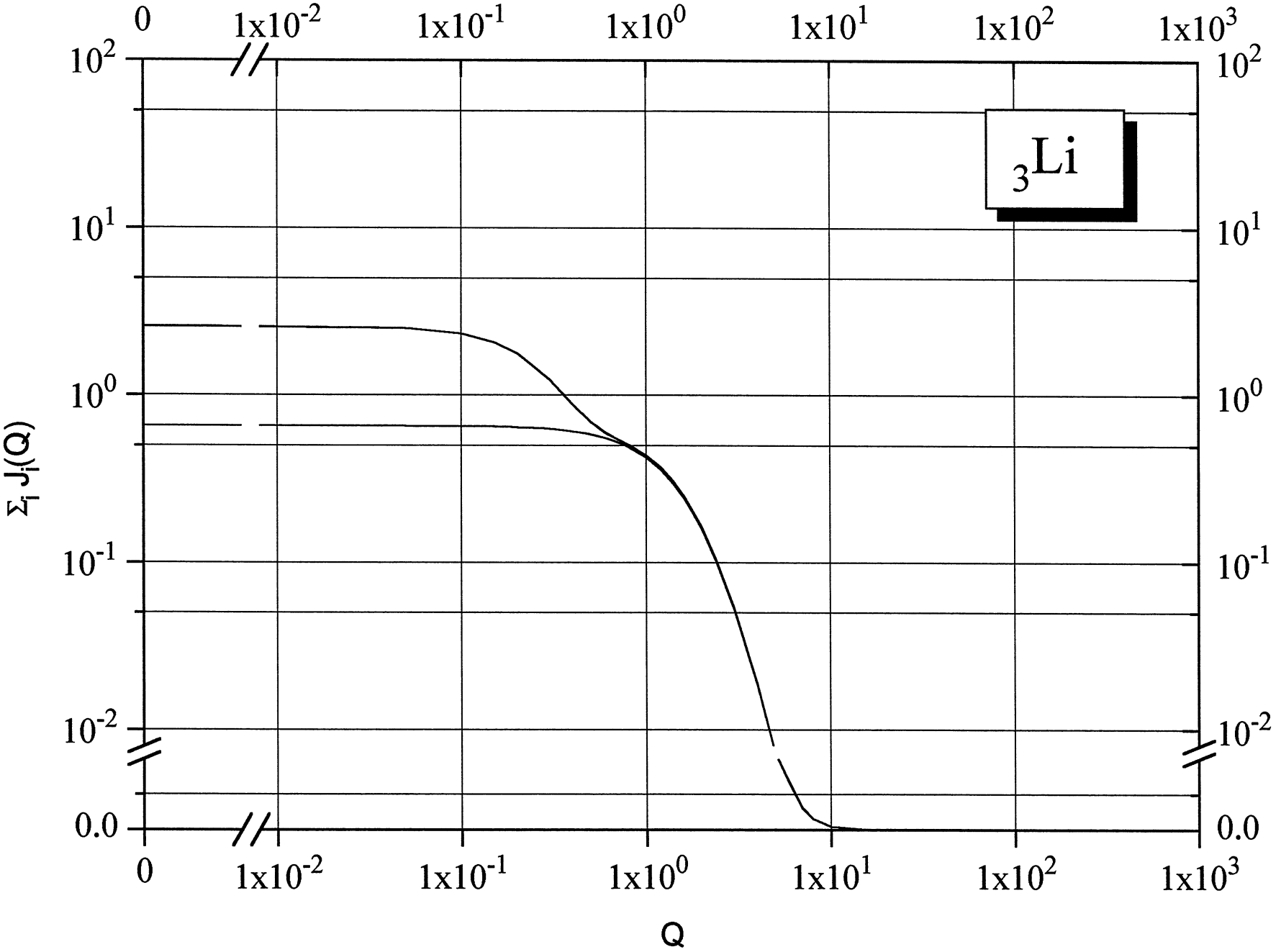
q_z	1s+(2)	2s+(1)	Total
0.0E+00	6.58E-01	2.60E+00	2.59E+00
5.0E-02	6.56E-01	2.53E+00	2.53E+00
1.0E-01	6.54E-01	2.34E+00	2.34E+00
1.5E-01	6.50E-01	2.08E+00	2.08E+00
2.0E-01	6.44E-01	1.78E+00	1.78E+00
3.0E-01	6.30E-01	1.24E+00	1.24E+00
4.0E-01	6.10E-01	8.84E-01	8.84E-01
5.0E-01	5.86E-01	6.94E-01	6.93E-01
6.0E-01	5.58E-01	5.99E-01	5.98E-01
7.0E-01	5.26E-01	5.45E-01	5.46E-01
8.0E-01	4.94E-01	5.08E-01	5.08E-01
1.0E+00	4.26E-01	4.39E-01	4.39E-01
1.2E+00	3.60E-01	3.72E-01	3.72E-01
1.4E+00	2.98E-01	3.08E-01	3.08E-01
1.6E+00	2.44E-01	2.51E-01	2.51E-01
1.8E+00	1.98E-01	2.03E-01	2.03E-01
2.0E+00	1.60E-01	1.64E-01	1.64E-01
2.4E+00	1.03E-01	1.05E-01	1.05E-01
3.0E+00	5.32E-02	5.42E-02	5.41E-02
4.0E+00	1.89E-02	1.92E-02	1.92E-02
5.0E+00	7.42E-03	7.53E-03	7.53E-03
6.0E+00	3.22E-03	3.26E-03	3.27E-03
7.0E+00	1.53E-03	1.55E-03	1.55E-03
8.0E+00	7.78E-04	7.88E-04	7.88E-04
1.0E+01	2.40E-04	2.43E-04	2.40E-04
1.5E+01	2.40E-05	2.43E-05	2.50E-05
2.0E+01	4.80E-06	4.86E-06	4.80E-06
3.0E+01	4.40E-07	4.45E-07	4.40E-07
4.0E+01	7.80E-08	7.90E-08	7.90E-08
6.0E+01	7.00E-09	7.09E-09	7.10E-09
1.0E+02	3.60E-10	3.64E-10	3.60E-10

E[keV]: 5.48E-02 1.00E-03

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z			
0.0E+00	1.94E+00	2.60E+00	2.59E+00
5.0E-02	1.87E+00	2.53E+00	2.53E+00
1.0E-01	1.69E+00	2.34E+00	2.34E+00
1.5E-01	1.43E+00	2.08E+00	2.08E+00
2.0E-01	1.14E+00	1.78E+00	1.78E+00
3.0E-01	6.12E-01	1.24E+00	1.24E+00
4.0E-01	2.74E-01	8.84E-01	8.84E-01
5.0E-01	1.08E-01	6.94E-01	6.93E-01
6.0E-01	4.11E-02	5.99E-01	5.98E-01
7.0E-01	1.94E-02	5.45E-01	5.46E-01
8.0E-01	1.41E-02	5.08E-01	5.08E-01
1.0E+00	1.34E-02	4.39E-01	4.39E-01
1.2E+00	1.20E-02	3.72E-01	3.72E-01
1.4E+00	9.58E-03	3.08E-01	3.08E-01
1.6E+00	7.24E-03	2.51E-01	2.51E-01
1.8E+00	5.36E-03	2.03E-01	2.03E-01
2.0E+00	3.95E-03	1.64E-01	1.64E-01
2.4E+00	2.18E-03	1.05E-01	1.05E-01
3.0E+00	9.62E-04	5.42E-02	5.41E-02
4.0E+00	2.95E-04	1.92E-02	1.92E-02
5.0E+00	1.08E-04	7.53E-03	7.53E-03
6.0E+00	4.48E-05	3.26E-03	3.27E-03
7.0E+00	2.06E-05	1.55E-03	1.55E-03
8.0E+00	1.03E-05	7.88E-04	7.88E-04
1.0E+01	3.10E-06	2.43E-04	2.40E-04
1.5E+01	3.10E-07	2.43E-05	2.50E-05
2.0E+01	5.90E-08	4.86E-06	4.80E-06
3.0E+01	5.40E-09	4.45E-07	4.40E-07
4.0E+01	9.60E-10	7.90E-08	7.90E-08
6.0E+01	8.60E-11	7.09E-09	7.10E-09
1.0E+02	4.40E-12	3.64E-10	3.60E-10

E[keV]: 1.00E-03 5.48E-02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Σi Ji(Q)
Q
3Li

Z= 4

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	Total
0.0E+00	2.37E-01	1.34E+00	3.16E+00
5.0E-02	2.37E-01	1.32E+00	3.11E+00
1.0E-01	2.36E-01	1.25E+00	2.98E+00
1.5E-01	2.36E-01	1.15E+00	2.77E+00
2.0E-01	2.35E-01	1.02E+00	2.52E+00
3.0E-01	2.32E-01	7.43E-01	1.95E+00
4.0E-01	2.28E-01	4.86E-01	1.43E+00
5.0E-01	2.23E-01	2.93E-01	1.03E+00
6.0E-01	2.18E-01	1.65E-01	7.66E-01
7.0E-01	2.11E-01	8.92E-02	6.00E-01
8.0E-01	2.04E-01	4.75E-02	5.03E-01
1.0E+00	1.88E-01	1.64E-02	4.09E-01
1.2E+00	1.71E-01	1.08E-02	3.63E-01
1.4E+00	1.53E-01	1.04E-02	3.27E-01
1.6E+00	1.36E-01	1.02E-02	2.92E-01
1.8E+00	1.19E-01	9.39E-03	2.57E-01
2.0E+00	1.04E-01	8.23E-03	2.24E-01
2.4E+00	7.71E-02	5.80E-03	1.66E-01
3.0E+00	4.81E-02	3.15E-03	1.02E-01
4.0E+00	2.15E-02	1.15E-03	4.52E-02
5.0E+00	9.86E-03	4.61E-04	2.06E-02
6.0E+00	4.77E-03	2.04E-04	9.94E-03
7.0E+00	2.44E-03	9.87E-05	5.07E-03
8.0E+00	1.31E-03	5.11E-05	2.73E-03
1.0E+01	4.40E-04	1.60E-05	9.10E-04
1.5E+01	5.00E-05	1.80E-06	1.00E-04
2.0E+01	9.90E-06	3.40E-07	2.10E-05
3.0E+01	9.40E-07	3.20E-08	1.90E-06
4.0E+01	1.70E-07	5.80E-09	3.60E-07
6.0E+01	1.50E-08	5.20E-10	3.20E-08
1.0E+02	7.40E-10	2.50E-11	1.50E-09

E[keV]: 1.12E-01 3.00E-03

Cumulative Compton profiles for the single orbitals and binding energies

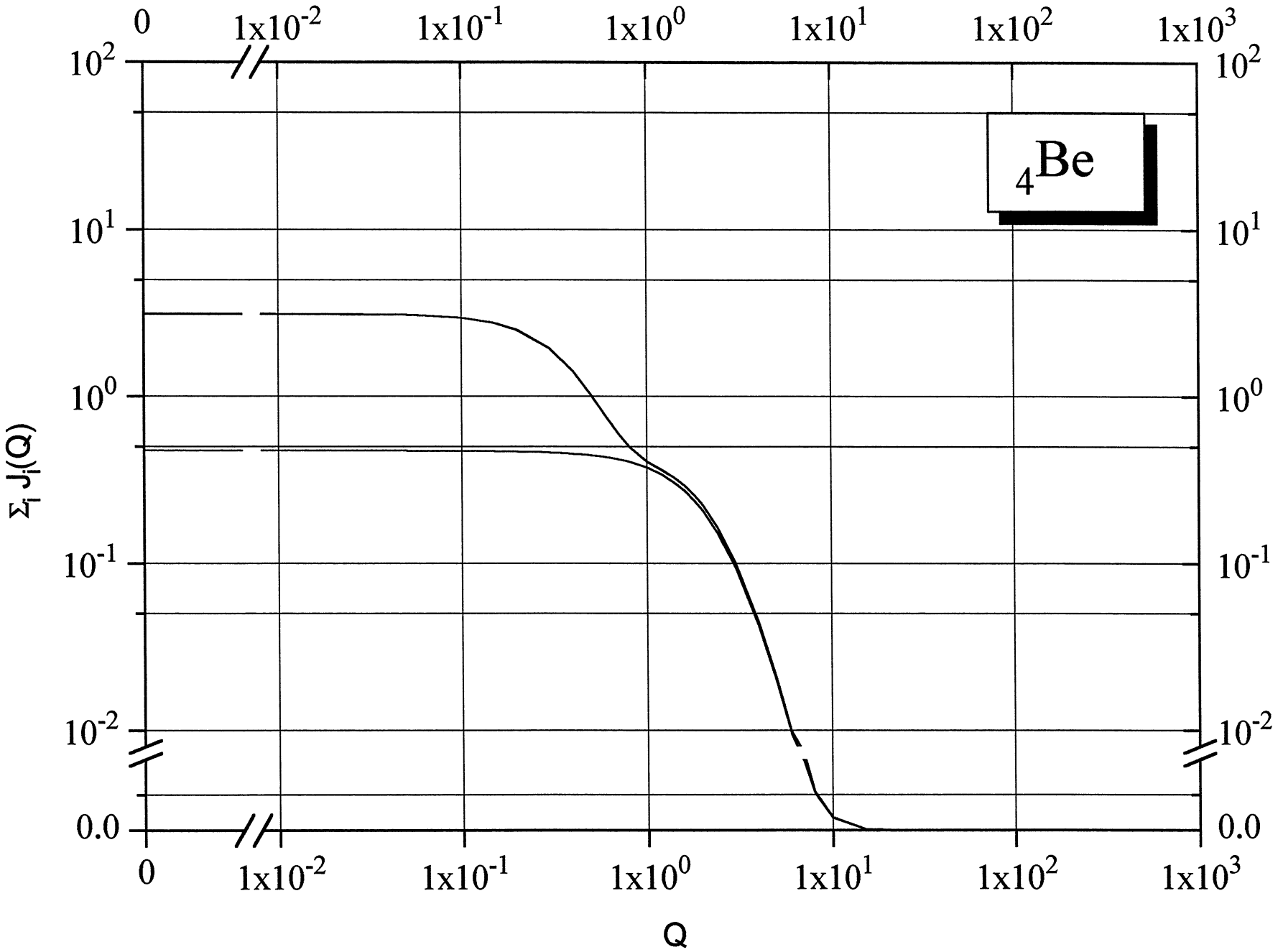
q_z	1s+(2)	2s+(2)	Total
0.0E+00	4.74E-01	3.15E+00	3.16E+00
5.0E-02	4.74E-01	3.11E+00	3.11E+00
1.0E-01	4.72E-01	2.97E+00	2.98E+00
1.5E-01	4.72E-01	2.77E+00	2.77E+00
2.0E-01	4.70E-01	2.51E+00	2.52E+00
3.0E-01	4.64E-01	1.95E+00	1.95E+00
4.0E-01	4.56E-01	1.43E+00	1.43E+00
5.0E-01	4.46E-01	1.03E+00	1.03E+00
6.0E-01	4.36E-01	7.66E-01	7.66E-01
7.0E-01	4.22E-01	6.00E-01	6.00E-01
8.0E-01	4.08E-01	5.03E-01	5.03E-01
1.0E+00	3.76E-01	4.09E-01	4.09E-01
1.2E+00	3.42E-01	3.64E-01	3.63E-01
1.4E+00	3.06E-01	3.27E-01	3.27E-01
1.6E+00	2.72E-01	2.92E-01	2.92E-01
1.8E+00	2.38E-01	2.57E-01	2.57E-01
2.0E+00	2.08E-01	2.24E-01	2.24E-01
2.4E+00	1.54E-01	1.66E-01	1.66E-01
3.0E+00	9.62E-02	1.02E-01	1.02E-01
4.0E+00	4.30E-02	4.53E-02	4.52E-02
5.0E+00	1.97E-02	2.06E-02	2.06E-02
6.0E+00	9.54E-03	9.95E-03	9.94E-03
7.0E+00	4.88E-03	5.08E-03	5.07E-03
8.0E+00	2.62E-03	2.72E-03	2.73E-03
1.0E+01	8.80E-04	9.12E-04	9.10E-04
1.5E+01	1.00E-04	1.04E-04	1.00E-04
2.0E+01	1.98E-05	2.05E-05	2.10E-05
3.0E+01	1.88E-06	1.94E-06	1.90E-06
4.0E+01	3.40E-07	3.52E-07	3.60E-07
6.0E+01	3.00E-08	3.10E-08	3.20E-08
1.0E+02	1.48E-09	1.53E-09	1.50E-09

E[keV]: 1.12E-01 3.00E-03

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z			
0.0E+00	2.68E+00	3.15E+00	3.16E+00
5.0E-02	2.64E+00	3.11E+00	3.11E+00
1.0E-01	2.50E+00	2.97E+00	2.98E+00
1.5E-01	2.30E+00	2.77E+00	2.77E+00
2.0E-01	2.04E+00	2.51E+00	2.52E+00
3.0E-01	1.49E+00	1.95E+00	1.95E+00
4.0E-01	9.72E-01	1.43E+00	1.43E+00
5.0E-01	5.86E-01	1.03E+00	1.03E+00
6.0E-01	3.30E-01	7.66E-01	7.66E-01
7.0E-01	1.76E-01	6.00E-01	6.00E-01
8.0E-01	9.50E-02	5.03E-01	5.03E-01
1.0E+00	3.28E-02	4.09E-01	4.09E-01
1.2E+00	2.16E-02	3.64E-01	3.63E-01
1.4E+00	2.08E-02	3.27E-01	3.27E-01
1.6E+00	2.04E-02	2.92E-01	2.92E-01
1.8E+00	1.88E-02	2.57E-01	2.57E-01
2.0E+00	1.65E-02	2.24E-01	2.24E-01
2.4E+00	1.16E-02	1.66E-01	1.66E-01
3.0E+00	6.30E-03	1.02E-01	1.02E-01
4.0E+00	2.30E-03	4.53E-02	4.52E-02
5.0E+00	9.22E-04	2.06E-02	2.06E-02
6.0E+00	4.08E-04	9.95E-03	9.94E-03
7.0E+00	1.97E-04	5.08E-03	5.07E-03
8.0E+00	1.02E-04	2.72E-03	2.73E-03
1.0E+01	3.20E-05	9.12E-04	9.10E-04
1.5E+01	3.60E-06	1.04E-04	1.00E-04
2.0E+01	6.80E-07	2.05E-05	2.10E-05
3.0E+01	6.40E-08	1.94E-06	1.90E-06
4.0E+01	1.16E-08	3.52E-07	3.60E-07
6.0E+01	1.04E-09	3.10E-08	3.20E-08
1.0E+02	5.00E-11	1.53E-09	1.50E-09

E[keV]: 3.00E-03 1.12E-01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Σi Ji(Q)
Q
4Be

Z= 5

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(1)	Total
0.0E+00	1.86E-01	1.00E+00	6.15E-01	2.99E+00
5.0E-02	1.86E-01	9.92E-01	6.15E-01	2.97E+00
1.0E-01	1.86E-01	9.63E-01	6.14E-01	2.91E+00
1.5E-01	1.85E-01	9.17E-01	6.12E-01	2.82E+00
2.0E-01	1.85E-01	8.57E-01	6.06E-01	2.69E+00
3.0E-01	1.84E-01	7.11E-01	5.81E-01	2.37E+00
4.0E-01	1.82E-01	5.52E-01	5.33E-01	2.00E+00
5.0E-01	1.79E-01	4.05E-01	4.67E-01	1.64E+00
6.0E-01	1.76E-01	2.84E-01	3.93E-01	1.31E+00
7.0E-01	1.73E-01	1.91E-01	3.21E-01	1.05E+00
8.0E-01	1.69E-01	1.24E-01	2.56E-01	8.43E-01
1.0E+00	1.61E-01	5.00E-02	1.57E-01	5.78E-01
1.2E+00	1.51E-01	2.09E-02	9.43E-02	4.39E-01
1.4E+00	1.41E-01	1.15E-02	5.68E-02	3.62E-01
1.6E+00	1.30E-01	9.24E-03	3.46E-02	3.14E-01
1.8E+00	1.19E-01	8.97E-03	2.15E-02	2.78E-01
2.0E+00	1.09E-01	8.93E-03	1.35E-02	2.49E-01
2.4E+00	8.84E-02	8.08E-03	5.71E-03	1.99E-01
3.0E+00	6.28E-02	5.73E-03	1.78E-03	1.39E-01
4.0E+00	3.38E-02	2.68E-03	3.45E-04	7.33E-02
5.0E+00	1.79E-02	1.22E-03	8.88E-05	3.83E-02
6.0E+00	9.61E-03	5.86E-04	2.82E-05	2.04E-02
7.0E+00	5.32E-03	2.98E-04	1.04E-05	1.12E-02
8.0E+00	3.04E-03	1.61E-04	4.29E-06	6.41E-03
1.0E+01	1.10E-03	5.40E-05	9.30E-07	2.30E-03
1.5E+01	1.40E-04	6.30E-06	5.00E-08	2.90E-04
2.0E+01	2.90E-05	1.30E-06	5.70E-09	6.10E-05
3.0E+01	2.90E-06	1.20E-07	2.50E-10	6.00E-06
4.0E+01	5.30E-07	2.20E-08	2.50E-11	1.10E-06
6.0E+01	4.80E-08	2.00E-09	1.00E-12	1.00E-07
1.0E+02	2.30E-09	9.40E-11	1.70E-14	4.80E-09

E[keV]: 1.91E-01 0.00E+00 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

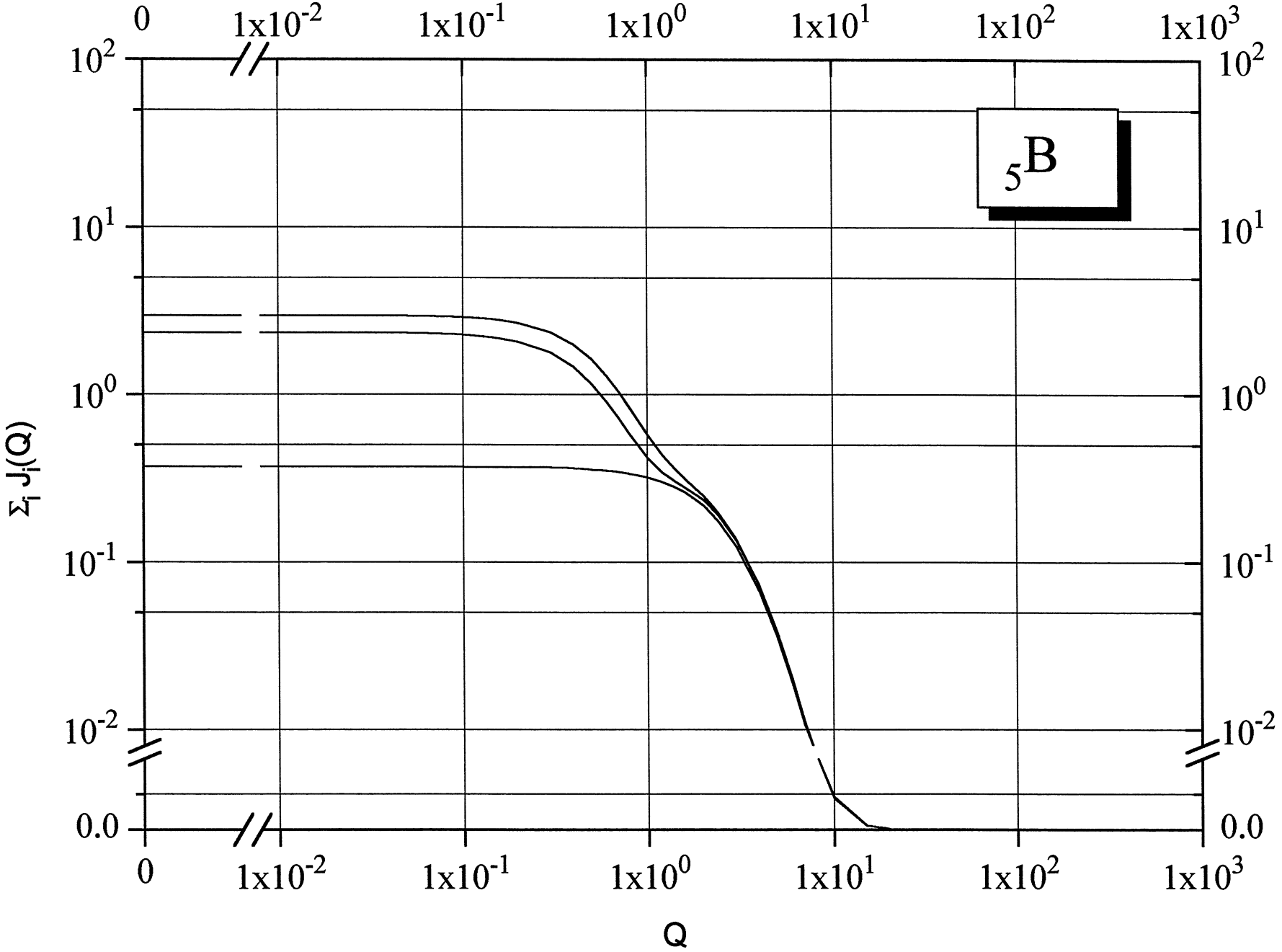
q_z	1s+(2)	2s+(2)	2p-(1)	Total
0.0E+00	3.72E-01	2.37E+00	2.99E+00	2.99E+00
5.0E-02	3.72E-01	2.36E+00	2.97E+00	2.97E+00
1.0E-01	3.72E-01	2.30E+00	2.91E+00	2.91E+00
1.5E-01	3.70E-01	2.20E+00	2.82E+00	2.82E+00
2.0E-01	3.70E-01	2.08E+00	2.69E+00	2.69E+00
3.0E-01	3.68E-01	1.79E+00	2.37E+00	2.37E+00
4.0E-01	3.64E-01	1.47E+00	2.00E+00	2.00E+00
5.0E-01	3.58E-01	1.17E+00	1.64E+00	1.64E+00
6.0E-01	3.52E-01	9.20E-01	1.31E+00	1.31E+00
7.0E-01	3.46E-01	7.28E-01	1.05E+00	1.05E+00
8.0E-01	3.38E-01	5.86E-01	8.42E-01	8.43E-01
1.0E+00	3.22E-01	4.22E-01	5.79E-01	5.78E-01
1.2E+00	3.02E-01	3.44E-01	4.38E-01	4.39E-01
1.4E+00	2.82E-01	3.05E-01	3.62E-01	3.62E-01
1.6E+00	2.60E-01	2.78E-01	3.13E-01	3.14E-01
1.8E+00	2.38E-01	2.56E-01	2.77E-01	2.78E-01
2.0E+00	2.18E-01	2.36E-01	2.49E-01	2.49E-01
2.4E+00	1.77E-01	1.93E-01	1.99E-01	1.99E-01
3.0E+00	1.26E-01	1.37E-01	1.39E-01	1.39E-01
4.0E+00	6.76E-02	7.30E-02	7.33E-02	7.33E-02
5.0E+00	3.58E-02	3.82E-02	3.83E-02	3.83E-02
6.0E+00	1.92E-02	2.04E-02	2.04E-02	2.04E-02
7.0E+00	1.06E-02	1.12E-02	1.12E-02	1.12E-02
8.0E+00	6.08E-03	6.40E-03	6.41E-03	6.41E-03
1.0E+01	2.20E-03	2.31E-03	2.31E-03	2.30E-03
1.5E+01	2.80E-04	2.93E-04	2.93E-04	2.90E-04
2.0E+01	5.80E-05	6.06E-05	6.06E-05	6.10E-05
3.0E+01	5.80E-06	6.04E-06	6.04E-06	6.00E-06
4.0E+01	1.06E-06	1.10E-06	1.10E-06	1.10E-06
6.0E+01	9.60E-08	1.00E-07	1.00E-07	1.00E-07
1.0E+02	4.60E-09	4.79E-09	4.79E-09	4.80E-09

E[keV]: 1.91E-01 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z			
0.0E+00	2.62E+00	2.99E+00	2.99E+00
5.0E-02	2.60E+00	2.97E+00	2.97E+00
1.0E-01	2.54E+00	2.91E+00	2.91E+00
1.5E-01	2.45E+00	2.82E+00	2.82E+00
2.0E-01	2.32E+00	2.69E+00	2.69E+00
3.0E-01	2.00E+00	2.37E+00	2.37E+00
4.0E-01	1.64E+00	2.00E+00	2.00E+00
5.0E-01	1.28E+00	1.64E+00	1.64E+00
6.0E-01	9.61E-01	1.31E+00	1.31E+00
7.0E-01	7.03E-01	1.05E+00	1.05E+00
8.0E-01	5.04E-01	8.42E-01	8.43E-01
1.0E+00	2.57E-01	5.79E-01	5.78E-01
1.2E+00	1.36E-01	4.38E-01	4.39E-01
1.4E+00	7.98E-02	3.62E-01	3.62E-01
1.6E+00	5.31E-02	3.13E-01	3.14E-01
1.8E+00	3.94E-02	2.77E-01	2.78E-01
2.0E+00	3.14E-02	2.49E-01	2.49E-01
2.4E+00	2.19E-02	1.99E-01	1.99E-01
3.0E+00	1.32E-02	1.39E-01	1.39E-01
4.0E+00	5.71E-03	7.33E-02	7.33E-02
5.0E+00	2.53E-03	3.83E-02	3.83E-02
6.0E+00	1.20E-03	2.04E-02	2.04E-02
7.0E+00	6.06E-04	1.12E-02	1.12E-02
8.0E+00	3.26E-04	6.41E-03	6.41E-03
1.0E+01	1.09E-04	2.31E-03	2.30E-03
1.5E+01	1.26E-05	2.93E-04	2.90E-04
2.0E+01	2.61E-06	6.06E-05	6.10E-05
3.0E+01	2.40E-07	6.04E-06	6.00E-06
4.0E+01	4.40E-08	1.10E-06	1.10E-06
6.0E+01	4.00E-09	1.00E-07	1.00E-07
1.0E+02	1.88E-10	4.79E-09	4.80E-09

E[keV]: 0.00E+00 1.91E-01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10^2
10^1
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10-1
10-2
0.0
5B
Σi Ji(Q)
Q

Z= 6

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	Total
0.0E+00	1.53E-01	8.04E-01	4.88E-01	2.89E+00
5.0E-02	1.53E-01	7.98E-01	4.88E-01	2.88E+00
1.0E-01	1.53E-01	7.83E-01	4.88E-01	2.85E+00
1.5E-01	1.53E-01	7.59E-01	4.87E-01	2.80E+00
2.0E-01	1.53E-01	7.26E-01	4.85E-01	2.73E+00
3.0E-01	1.52E-01	6.41E-01	4.75E-01	2.54E+00
4.0E-01	1.51E-01	5.41E-01	4.53E-01	2.29E+00
5.0E-01	1.49E-01	4.39E-01	4.20E-01	2.02E+00
6.0E-01	1.48E-01	3.43E-01	3.79E-01	1.74E+00
7.0E-01	1.46E-01	2.60E-01	3.33E-01	1.48E+00
8.0E-01	1.44E-01	1.92E-01	2.87E-01	1.24E+00
1.0E+00	1.39E-01	9.82E-02	2.04E-01	8.81E-01
1.2E+00	1.33E-01	4.77E-02	1.40E-01	6.41E-01
1.4E+00	1.26E-01	2.34E-02	9.50E-02	4.90E-01
1.6E+00	1.20E-01	1.30E-02	6.44E-02	3.94E-01
1.8E+00	1.12E-01	9.09E-03	4.38E-02	3.31E-01
2.0E+00	1.05E-01	7.95E-03	3.01E-02	2.86E-01
2.4E+00	9.05E-02	7.75E-03	1.46E-02	2.26E-01
3.0E+00	7.01E-02	6.95E-03	5.30E-03	1.65E-01
4.0E+00	4.33E-02	4.25E-03	1.20E-03	9.76E-02
5.0E+00	2.58E-02	2.27E-03	3.34E-04	5.69E-02
6.0E+00	1.53E-02	1.20E-03	1.10E-04	3.32E-02
7.0E+00	9.13E-03	6.49E-04	4.16E-05	1.96E-02
8.0E+00	5.55E-03	3.65E-04	1.75E-05	1.19E-02
1.0E+01	2.20E-03	1.30E-04	3.90E-06	4.60E-03
1.5E+01	3.10E-04	1.60E-05	2.20E-07	6.60E-04
2.0E+01	6.80E-05	3.40E-06	2.60E-08	1.40E-04
3.0E+01	7.00E-06	3.30E-07	1.20E-09	1.50E-05
4.0E+01	1.30E-06	6.20E-08	1.20E-10	2.80E-06
6.0E+01	1.20E-07	5.60E-09	4.80E-12	2.50E-07
1.0E+02	5.80E-09	2.70E-10	8.00E-14	1.20E-08

E[keV]:	2.85E-01	0.00E+00	0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

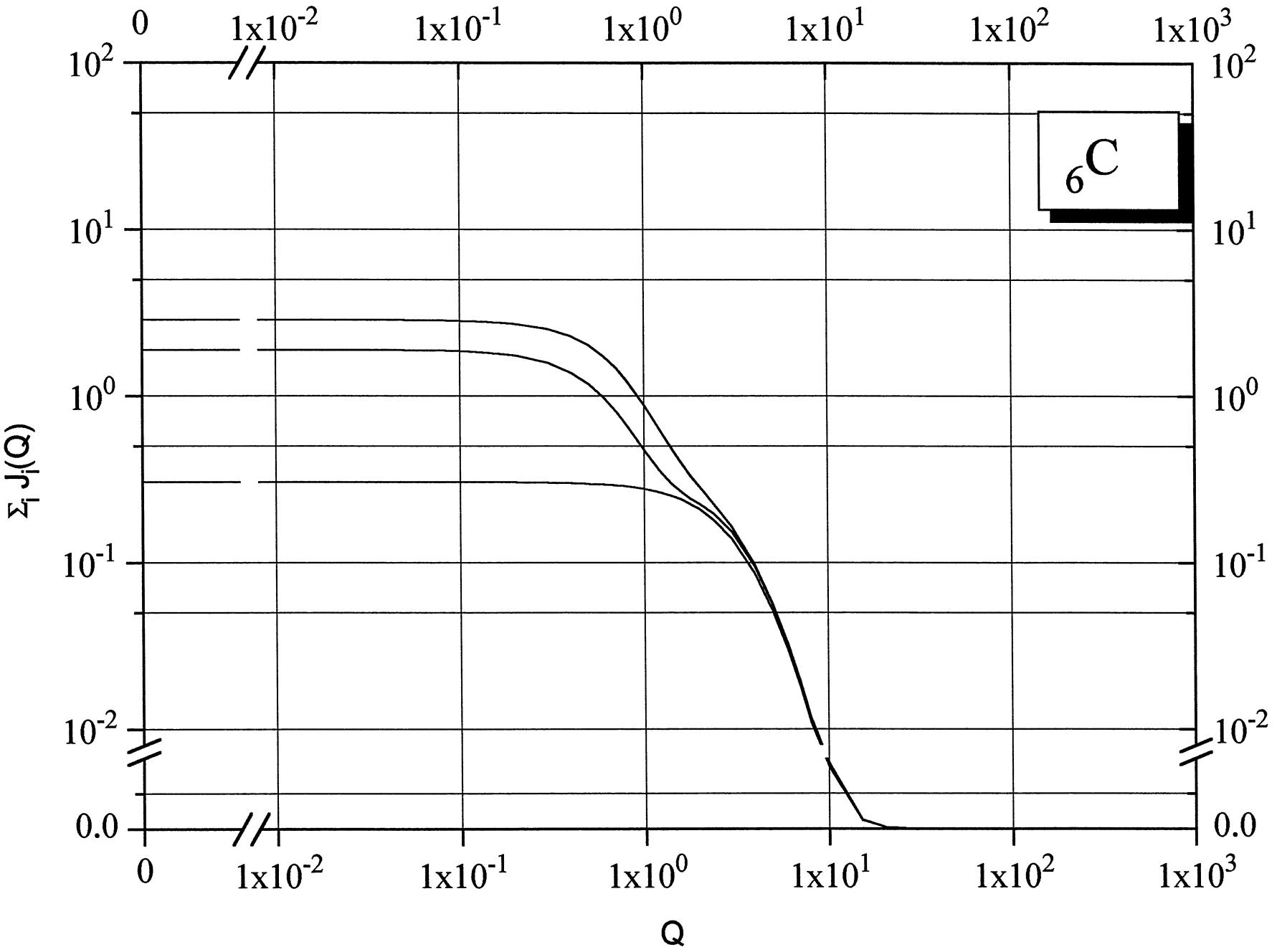
q_z	1s+(2)	2s+(2)	2p-(2)	Total
0.0E+00	3.06E-01	1.91E+00	2.89E+00	2.89E+00
5.0E-02	3.06E-01	1.90E+00	2.88E+00	2.88E+00
1.0E-01	3.06E-01	1.87E+00	2.85E+00	2.85E+00
1.5E-01	3.06E-01	1.82E+00	2.80E+00	2.80E+00
2.0E-01	3.06E-01	1.76E+00	2.73E+00	2.73E+00
3.0E-01	3.04E-01	1.59E+00	2.54E+00	2.54E+00
4.0E-01	3.02E-01	1.38E+00	2.29E+00	2.29E+00
5.0E-01	2.98E-01	1.18E+00	2.02E+00	2.02E+00
6.0E-01	2.96E-01	9.82E-01	1.74E+00	1.74E+00
7.0E-01	2.92E-01	8.12E-01	1.48E+00	1.48E+00
8.0E-01	2.88E-01	6.72E-01	1.25E+00	1.24E+00
1.0E+00	2.78E-01	4.74E-01	8.82E-01	8.81E-01
1.2E+00	2.66E-01	3.61E-01	6.41E-01	6.41E-01
1.4E+00	2.52E-01	2.99E-01	4.89E-01	4.90E-01
1.6E+00	2.40E-01	2.66E-01	3.95E-01	3.94E-01
1.8E+00	2.24E-01	2.42E-01	3.30E-01	3.31E-01
2.0E+00	2.10E-01	2.26E-01	2.86E-01	2.86E-01
2.4E+00	1.81E-01	1.97E-01	2.26E-01	2.26E-01
3.0E+00	1.40E-01	1.54E-01	1.65E-01	1.65E-01
4.0E+00	8.66E-02	9.51E-02	9.75E-02	9.76E-02
5.0E+00	5.16E-02	5.61E-02	5.68E-02	5.69E-02
6.0E+00	3.06E-02	3.30E-02	3.32E-02	3.32E-02
7.0E+00	1.83E-02	1.96E-02	1.96E-02	1.96E-02
8.0E+00	1.11E-02	1.18E-02	1.19E-02	1.19E-02
1.0E+01	4.40E-03	4.66E-03	4.67E-03	4.60E-03
1.5E+01	6.20E-04	6.52E-04	6.52E-04	6.60E-04
2.0E+01	1.36E-04	1.43E-04	1.43E-04	1.40E-04
3.0E+01	1.40E-05	1.47E-05	1.47E-05	1.50E-05
4.0E+01	2.60E-06	2.72E-06	2.72E-06	2.80E-06
6.0E+01	2.40E-07	2.51E-07	2.51E-07	2.50E-07
1.0E+02	1.16E-08	1.21E-08	1.21E-08	1.20E-08

E[keV]:	2.85E-01	0.00E+00	0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z			
0.0E+00	2.58E+00	2.89E+00	2.89E+00
5.0E-02	2.57E+00	2.88E+00	2.88E+00
1.0E-01	2.54E+00	2.85E+00	2.85E+00
1.5E-01	2.49E+00	2.80E+00	2.80E+00
2.0E-01	2.42E+00	2.73E+00	2.73E+00
3.0E-01	2.23E+00	2.54E+00	2.54E+00
4.0E-01	1.99E+00	2.29E+00	2.29E+00
5.0E-01	1.72E+00	2.02E+00	2.02E+00
6.0E-01	1.44E+00	1.74E+00	1.74E+00
7.0E-01	1.19E+00	1.48E+00	1.48E+00
8.0E-01	9.58E-01	1.25E+00	1.24E+00
1.0E+00	6.04E-01	8.82E-01	8.81E-01
1.2E+00	3.75E-01	6.41E-01	6.41E-01
1.4E+00	2.37E-01	4.89E-01	4.90E-01
1.6E+00	1.55E-01	3.95E-01	3.94E-01
1.8E+00	1.06E-01	3.30E-01	3.31E-01
2.0E+00	7.61E-02	2.86E-01	2.86E-01
2.4E+00	4.47E-02	2.26E-01	2.26E-01
3.0E+00	2.45E-02	1.65E-01	1.65E-01
4.0E+00	1.09E-02	9.75E-02	9.76E-02
5.0E+00	5.21E-03	5.68E-02	5.69E-02
6.0E+00	2.62E-03	3.32E-02	3.32E-02
7.0E+00	1.38E-03	1.96E-02	1.96E-02
8.0E+00	7.65E-04	1.19E-02	1.19E-02
1.0E+01	2.68E-04	4.67E-03	4.60E-03
1.5E+01	3.24E-05	6.52E-04	6.60E-04
2.0E+01	6.85E-06	1.43E-04	1.40E-04
3.0E+01	6.62E-07	1.47E-05	1.50E-05
4.0E+01	1.24E-07	2.72E-06	2.80E-06
6.0E+01	1.12E-08	2.51E-07	2.50E-07
1.0E+02	5.40E-10	1.21E-08	1.20E-08

E[keV]:	0.00E+00	2.85E-01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Σi Ji(Q)
Q
6C

Z= 7

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(3)	Total
0.0E+00	1.30E-01	6.72E-01	4.07E-01	2.83E+00
5.0E-02	1.30E-01	6.69E-01	4.07E-01	2.82E+00
1.0E-01	1.30E-01	6.60E-01	4.07E-01	2.80E+00
1.5E-01	1.30E-01	6.46E-01	4.07E-01	2.77E+00
2.0E-01	1.30E-01	6.25E-01	4.06E-01	2.73E+00
3.0E-01	1.29E-01	5.72E-01	4.01E-01	2.61E+00
4.0E-01	1.29E-01	5.07E-01	3.90E-01	2.44E+00
5.0E-01	1.28E-01	4.35E-01	3.72E-01	2.24E+00
6.0E-01	1.27E-01	3.64E-01	3.48E-01	2.02E+00
7.0E-01	1.26E-01	2.96E-01	3.19E-01	1.80E+00
8.0E-01	1.24E-01	2.36E-01	2.87E-01	1.58E+00
1.0E+00	1.21E-01	1.42E-01	2.24E-01	1.20E+00
1.2E+00	1.17E-01	8.07E-02	1.68E-01	9.02E-01
1.4E+00	1.13E-01	4.43E-02	1.24E-01	6.88E-01
1.6E+00	1.09E-01	2.44E-02	9.08E-02	5.38E-01
1.8E+00	1.04E-01	1.42E-02	6.62E-02	4.35E-01
2.0E+00	9.87E-02	9.53E-03	4.84E-02	3.61E-01
2.4E+00	8.81E-02	6.94E-03	2.61E-02	2.69E-01
3.0E+00	7.24E-02	6.76E-03	1.09E-02	1.91E-01
4.0E+00	4.95E-02	5.29E-03	2.87E-03	1.18E-01
5.0E+00	3.25E-02	3.33E-03	8.82E-04	7.42E-02
6.0E+00	2.09E-02	1.95E-03	3.09E-04	4.65E-02
7.0E+00	1.33E-02	1.14E-03	1.21E-04	2.93E-02
8.0E+00	8.58E-03	6.74E-04	5.23E-05	1.87E-02
1.0E+01	3.70E-03	2.60E-04	1.20E-05	7.90E-03
1.5E+01	5.90E-04	3.50E-05	7.30E-07	1.30E-03
2.0E+01	1.40E-04	7.50E-06	8.90E-08	2.90E-04
3.0E+01	1.50E-05	7.60E-07	4.10E-09	3.10E-05
4.0E+01	2.80E-06	1.40E-07	4.20E-10	6.00E-06
6.0E+01	2.60E-07	1.30E-08	1.70E-11	5.50E-07
1.0E+02	1.30E-08	6.20E-10	3.00E-13	2.70E-08

E[keV]:	4.10E-01	0.00E+00	0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

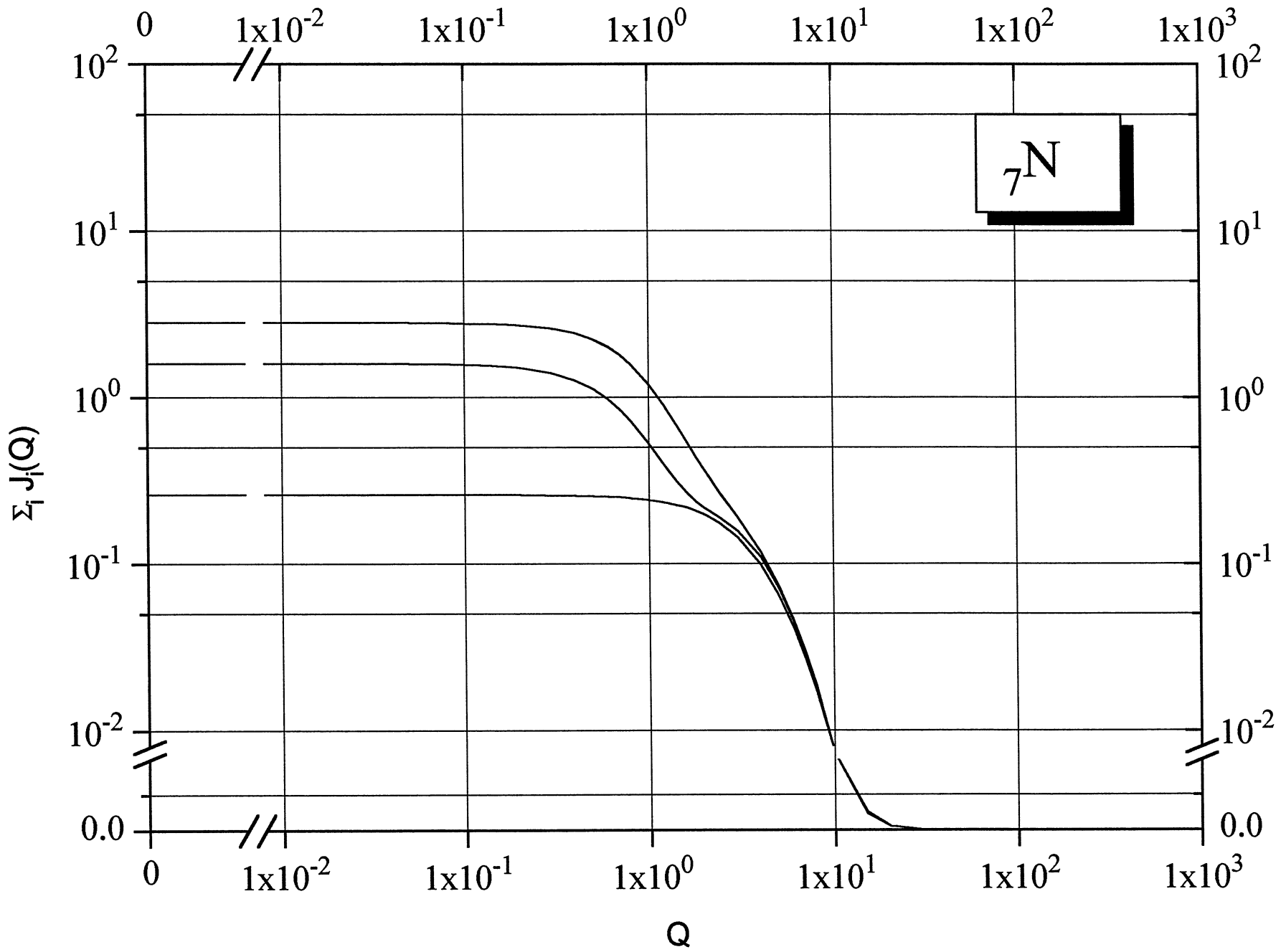
q_z	1s+(2)	2s+(2)	2p-(3)	Total
0.0E+00	2.60E-01	1.60E+00	2.83E+00	2.83E+00
5.0E-02	2.60E-01	1.60E+00	2.82E+00	2.82E+00
1.0E-01	2.60E-01	1.59E+00	2.80E+00	2.80E+00
1.5E-01	2.60E-01	1.55E+00	2.77E+00	2.77E+00
2.0E-01	2.60E-01	1.51E+00	2.73E+00	2.73E+00
3.0E-01	2.58E-01	1.40E+00	2.60E+00	2.61E+00
4.0E-01	2.58E-01	1.27E+00	2.44E+00	2.44E+00
5.0E-01	2.56E-01	1.13E+00	2.24E+00	2.24E+00
6.0E-01	2.54E-01	9.82E-01	2.03E+00	2.02E+00
7.0E-01	2.52E-01	8.44E-01	1.80E+00	1.80E+00
8.0E-01	2.48E-01	7.20E-01	1.58E+00	1.58E+00
1.0E+00	2.42E-01	5.26E-01	1.20E+00	1.20E+00
1.2E+00	2.34E-01	3.95E-01	8.99E-01	9.02E-01
1.4E+00	2.26E-01	3.15E-01	6.87E-01	6.88E-01
1.6E+00	2.18E-01	2.67E-01	5.39E-01	5.38E-01
1.8E+00	2.08E-01	2.36E-01	4.35E-01	4.35E-01
2.0E+00	1.97E-01	2.16E-01	3.62E-01	3.61E-01
2.4E+00	1.76E-01	1.90E-01	2.68E-01	2.69E-01
3.0E+00	1.45E-01	1.58E-01	1.91E-01	1.91E-01
4.0E+00	9.90E-02	1.10E-01	1.18E-01	1.18E-01
5.0E+00	6.50E-02	7.17E-02	7.43E-02	7.42E-02
6.0E+00	4.18E-02	4.57E-02	4.66E-02	4.65E-02
7.0E+00	2.66E-02	2.89E-02	2.92E-02	2.93E-02
8.0E+00	1.72E-02	1.85E-02	1.87E-02	1.87E-02
1.0E+01	7.40E-03	7.92E-03	7.96E-03	7.90E-03
1.5E+01	1.18E-03	1.25E-03	1.25E-03	1.30E-03
2.0E+01	2.80E-04	2.95E-04	2.95E-04	2.90E-04
3.0E+01	3.00E-05	3.15E-05	3.15E-05	3.10E-05
4.0E+01	5.60E-06	5.88E-06	5.88E-06	6.00E-06
6.0E+01	5.20E-07	5.46E-07	5.46E-07	5.50E-07
1.0E+02	2.60E-08	2.72E-08	2.72E-08	2.70E-08

E[keV]:	4.10E-01	0.00E+00	0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z			
0.0E+00	2.57E+00	2.83E+00	2.83E+00
5.0E-02	2.56E+00	2.82E+00	2.82E+00
1.0E-01	2.54E+00	2.80E+00	2.80E+00
1.5E-01	2.51E+00	2.77E+00	2.77E+00
2.0E-01	2.47E+00	2.73E+00	2.73E+00
3.0E-01	2.35E+00	2.61E+00	2.61E+00
4.0E-01	2.18E+00	2.44E+00	2.44E+00
5.0E-01	1.99E+00	2.24E+00	2.24E+00
6.0E-01	1.77E+00	2.03E+00	2.02E+00
7.0E-01	1.55E+00	1.80E+00	1.80E+00
8.0E-01	1.33E+00	1.58E+00	1.58E+00
1.0E+00	9.56E-01	1.20E+00	1.20E+00
1.2E+00	6.65E-01	8.99E-01	9.02E-01
1.4E+00	4.61E-01	6.87E-01	6.88E-01
1.6E+00	3.21E-01	5.39E-01	5.38E-01
1.8E+00	2.27E-01	4.35E-01	4.35E-01
2.0E+00	1.64E-01	3.62E-01	3.61E-01
2.4E+00	9.22E-02	2.68E-01	2.69E-01
3.0E+00	4.62E-02	1.91E-01	1.91E-01
4.0E+00	1.92E-02	1.18E-01	1.18E-01
5.0E+00	9.31E-03	7.43E-02	7.42E-02
6.0E+00	4.83E-03	4.66E-02	4.65E-02
7.0E+00	2.64E-03	2.92E-02	2.93E-02
8.0E+00	1.50E-03	1.87E-02	1.87E-02
1.0E+01	5.56E-04	7.96E-03	7.90E-03
1.5E+01	7.22E-05	1.25E-03	1.30E-03
2.0E+01	1.53E-05	2.95E-04	2.90E-04
3.0E+01	1.53E-06	3.15E-05	3.10E-05
4.0E+01	2.81E-07	5.88E-06	6.00E-06
6.0E+01	2.61E-08	5.46E-07	5.50E-07
1.0E+02	1.24E-09	2.72E-08	2.70E-08

E[keV]:	0.00E+00	4.10E-01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1x102
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101
100
10-1
10-2
0.0
7N
Σi Ji(Q)
Q

Z= 8

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(4)	Total
0.0E+00	1.13E-01	5.79E-01	3.50E-01	2.78E+00
5.0E-02	1.13E-01	5.77E-01	3.50E-01	2.78E+00
1.0E-01	1.13E-01	5.71E-01	3.50E-01	2.77E+00
1.5E-01	1.13E-01	5.61E-01	3.49E-01	2.75E+00
2.0E-01	1.13E-01	5.48E-01	3.49E-01	2.72E+00
3.0E-01	1.13E-01	5.13E-01	3.46E-01	2.64E+00
4.0E-01	1.12E-01	4.68E-01	3.40E-01	2.52E+00
5.0E-01	1.12E-01	4.17E-01	3.30E-01	2.38E+00
6.0E-01	1.11E-01	3.63E-01	3.15E-01	2.21E+00
7.0E-01	1.10E-01	3.11E-01	2.97E-01	2.03E+00
8.0E-01	1.09E-01	2.61E-01	2.75E-01	1.84E+00
1.0E+00	1.07E-01	1.75E-01	2.28E-01	1.48E+00
1.2E+00	1.05E-01	1.11E-01	1.83E-01	1.16E+00
1.4E+00	1.02E-01	6.84E-02	1.43E-01	9.14E-01
1.6E+00	9.86E-02	4.09E-02	1.11E-01	7.23E-01
1.8E+00	9.52E-02	2.45E-02	8.52E-02	5.80E-01
2.0E+00	9.15E-02	1.51E-02	6.53E-02	4.75E-01
2.4E+00	8.38E-02	7.65E-03	3.85E-02	3.37E-01
3.0E+00	7.18E-02	6.05E-03	1.79E-02	2.27E-01
4.0E+00	5.29E-02	5.61E-03	5.42E-03	1.39E-01
5.0E+00	3.73E-02	4.14E-03	1.84E-03	9.03E-02
6.0E+00	2.57E-02	2.71E-03	6.90E-04	5.95E-02
7.0E+00	1.74E-02	1.71E-03	2.84E-04	3.94E-02
8.0E+00	1.18E-02	1.07E-03	1.26E-04	2.63E-02
1.0E+01	5.50E-03	4.40E-04	3.00E-05	1.20E-02
1.5E+01	1.00E-03	6.50E-05	1.90E-06	2.10E-03
2.0E+01	2.40E-04	1.50E-05	2.40E-07	5.20E-04
3.0E+01	2.80E-05	1.50E-06	1.10E-08	5.80E-05
4.0E+01	5.40E-06	2.90E-07	1.20E-09	1.10E-05
6.0E+01	5.10E-07	2.70E-08	5.00E-11	1.10E-06
1.0E+02	2.50E-08	1.30E-09	8.50E-13	5.20E-08

E[keV]:	5.43E-01	0.00E+00	0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

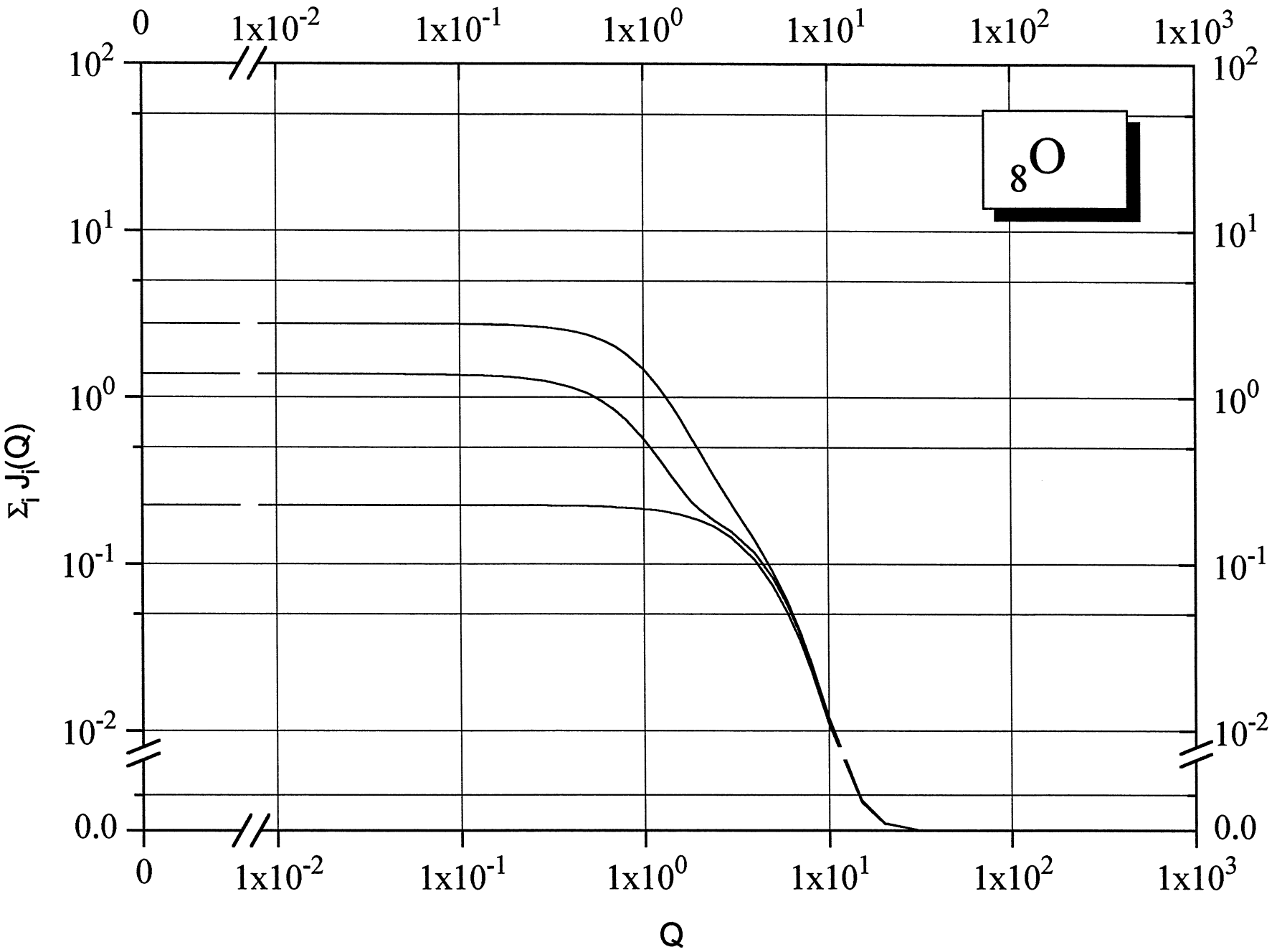
q_z	1s+(2)	2s+(2)	2p-(4)	Total
0.0E+00	2.26E-01	1.38E+00	2.78E+00	2.78E+00
5.0E-02	2.26E-01	1.38E+00	2.78E+00	2.78E+00
1.0E-01	2.26E-01	1.37E+00	2.77E+00	2.77E+00
1.5E-01	2.26E-01	1.35E+00	2.74E+00	2.75E+00
2.0E-01	2.26E-01	1.32E+00	2.72E+00	2.72E+00
3.0E-01	2.26E-01	1.25E+00	2.64E+00	2.64E+00
4.0E-01	2.24E-01	1.16E+00	2.52E+00	2.52E+00
5.0E-01	2.24E-01	1.06E+00	2.38E+00	2.38E+00
6.0E-01	2.22E-01	9.48E-01	2.21E+00	2.21E+00
7.0E-01	2.20E-01	8.42E-01	2.03E+00	2.03E+00
8.0E-01	2.18E-01	7.40E-01	1.84E+00	1.84E+00
1.0E+00	2.14E-01	5.64E-01	1.48E+00	1.48E+00
1.2E+00	2.10E-01	4.32E-01	1.16E+00	1.16E+00
1.4E+00	2.04E-01	3.41E-01	9.13E-01	9.14E-01
1.6E+00	1.97E-01	2.79E-01	7.23E-01	7.23E-01
1.8E+00	1.90E-01	2.39E-01	5.80E-01	5.80E-01
2.0E+00	1.83E-01	2.13E-01	4.74E-01	4.75E-01
2.4E+00	1.68E-01	1.83E-01	3.37E-01	3.37E-01
3.0E+00	1.44E-01	1.56E-01	2.27E-01	2.27E-01
4.0E+00	1.06E-01	1.17E-01	1.39E-01	1.39E-01
5.0E+00	7.46E-02	8.29E-02	9.02E-02	9.03E-02
6.0E+00	5.14E-02	5.68E-02	5.96E-02	5.95E-02
7.0E+00	3.48E-02	3.82E-02	3.94E-02	3.94E-02
8.0E+00	2.36E-02	2.57E-02	2.62E-02	2.63E-02
1.0E+01	1.10E-02	1.19E-02	1.20E-02	1.20E-02
1.5E+01	2.00E-03	2.13E-03	2.14E-03	2.10E-03
2.0E+01	4.80E-04	5.10E-04	5.11E-04	5.20E-04
3.0E+01	5.60E-05	5.90E-05	5.90E-05	5.80E-05
4.0E+01	1.08E-05	1.14E-05	1.14E-05	1.10E-05
6.0E+01	1.02E-06	1.07E-06	1.07E-06	1.10E-06
1.0E+02	5.00E-08	5.26E-08	5.26E-08	5.20E-08

E[keV]:	5.43E-01	0.00E+00	0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z			
0.0E+00	2.56E+00	2.78E+00	2.78E+00
5.0E-02	2.55E+00	2.78E+00	2.78E+00
1.0E-01	2.54E+00	2.77E+00	2.77E+00
1.5E-01	2.52E+00	2.74E+00	2.75E+00
2.0E-01	2.49E+00	2.72E+00	2.72E+00
3.0E-01	2.41E+00	2.64E+00	2.64E+00
4.0E-01	2.30E+00	2.52E+00	2.52E+00
5.0E-01	2.15E+00	2.38E+00	2.38E+00
6.0E-01	1.99E+00	2.21E+00	2.21E+00
7.0E-01	1.81E+00	2.03E+00	2.03E+00
8.0E-01	1.62E+00	1.84E+00	1.84E+00
1.0E+00	1.26E+00	1.48E+00	1.48E+00
1.2E+00	9.54E-01	1.16E+00	1.16E+00
1.4E+00	7.09E-01	9.13E-01	9.14E-01
1.6E+00	5.26E-01	7.23E-01	7.23E-01
1.8E+00	3.90E-01	5.80E-01	5.80E-01
2.0E+00	2.91E-01	4.74E-01	4.75E-01
2.4E+00	1.69E-01	3.37E-01	3.37E-01
3.0E+00	8.37E-02	2.27E-01	2.27E-01
4.0E+00	3.29E-02	1.39E-01	1.39E-01
5.0E+00	1.56E-02	9.02E-02	9.03E-02
6.0E+00	8.18E-03	5.96E-02	5.95E-02
7.0E+00	4.56E-03	3.94E-02	3.94E-02
8.0E+00	2.64E-03	2.62E-02	2.63E-02
1.0E+01	1.00E-03	1.20E-02	1.20E-02
1.5E+01	1.38E-04	2.14E-03	2.10E-03
2.0E+01	3.10E-05	5.11E-04	5.20E-04
3.0E+01	3.04E-06	5.90E-05	5.80E-05
4.0E+01	5.85E-07	1.14E-05	1.10E-05
6.0E+01	5.42E-08	1.07E-06	1.10E-06
1.0E+02	2.60E-09	5.26E-08	5.20E-08

E[keV]:	0.00E+00	5.43E-01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10^1
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10-1
10-2
0.0
8O
Σi Ji(Q)
Q

Z= 9

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(5)	Total
0.0E+00	1.00E-01	5.08E-01	3.07E-01	2.75E+00
5.0E-02	1.00E-01	5.07E-01	3.07E-01	2.75E+00
1.0E-01	1.00E-01	5.03E-01	3.07E-01	2.74E+00
1.5E-01	1.00E-01	4.96E-01	3.07E-01	2.73E+00
2.0E-01	1.00E-01	4.87E-01	3.06E-01	2.71E+00
3.0E-01	9.99E-02	4.62E-01	3.05E-01	2.65E+00
4.0E-01	9.96E-02	4.30E-01	3.01E-01	2.57E+00
5.0E-01	9.92E-02	3.93E-01	2.95E-01	2.46E+00
6.0E-01	9.87E-02	3.53E-01	2.86E-01	2.33E+00
7.0E-01	9.82E-02	3.12E-01	2.74E-01	2.19E+00
8.0E-01	9.75E-02	2.71E-01	2.59E-01	2.03E+00
1.0E+00	9.60E-02	1.97E-01	2.24E-01	1.71E+00
1.2E+00	9.42E-02	1.36E-01	1.88E-01	1.40E+00
1.4E+00	9.22E-02	9.11E-02	1.54E-01	1.14E+00
1.6E+00	8.99E-02	5.92E-02	1.25E-01	9.22E-01
1.8E+00	8.74E-02	3.78E-02	9.98E-02	7.50E-01
2.0E+00	8.47E-02	2.41E-02	7.95E-02	6.15E-01
2.4E+00	7.89E-02	1.07E-02	5.03E-02	4.31E-01
3.0E+00	6.97E-02	5.79E-03	2.55E-02	2.79E-01
4.0E+00	5.42E-02	5.39E-03	8.72E-03	1.63E-01
5.0E+00	4.05E-02	4.58E-03	3.24E-03	1.06E-01
6.0E+00	2.95E-02	3.35E-03	1.30E-03	7.22E-02
7.0E+00	2.11E-02	2.28E-03	5.63E-04	4.96E-02
8.0E+00	1.50E-02	1.52E-03	2.60E-04	3.43E-02
1.0E+01	7.50E-03	6.70E-04	6.60E-05	1.70E-02
1.5E+01	1.50E-03	1.10E-04	4.40E-06	3.30E-03
2.0E+01	4.00E-04	2.60E-05	5.70E-07	8.50E-04
3.0E+01	4.80E-05	2.80E-06	2.80E-08	1.00E-04
4.0E+01	9.60E-06	5.40E-07	3.00E-09	2.00E-05
6.0E+01	9.20E-07	5.00E-08	1.30E-10	1.90E-06
1.0E+02	4.50E-08	2.40E-09	2.10E-12	9.40E-08

E[keV]: 6.97E-01 0.00E+00 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

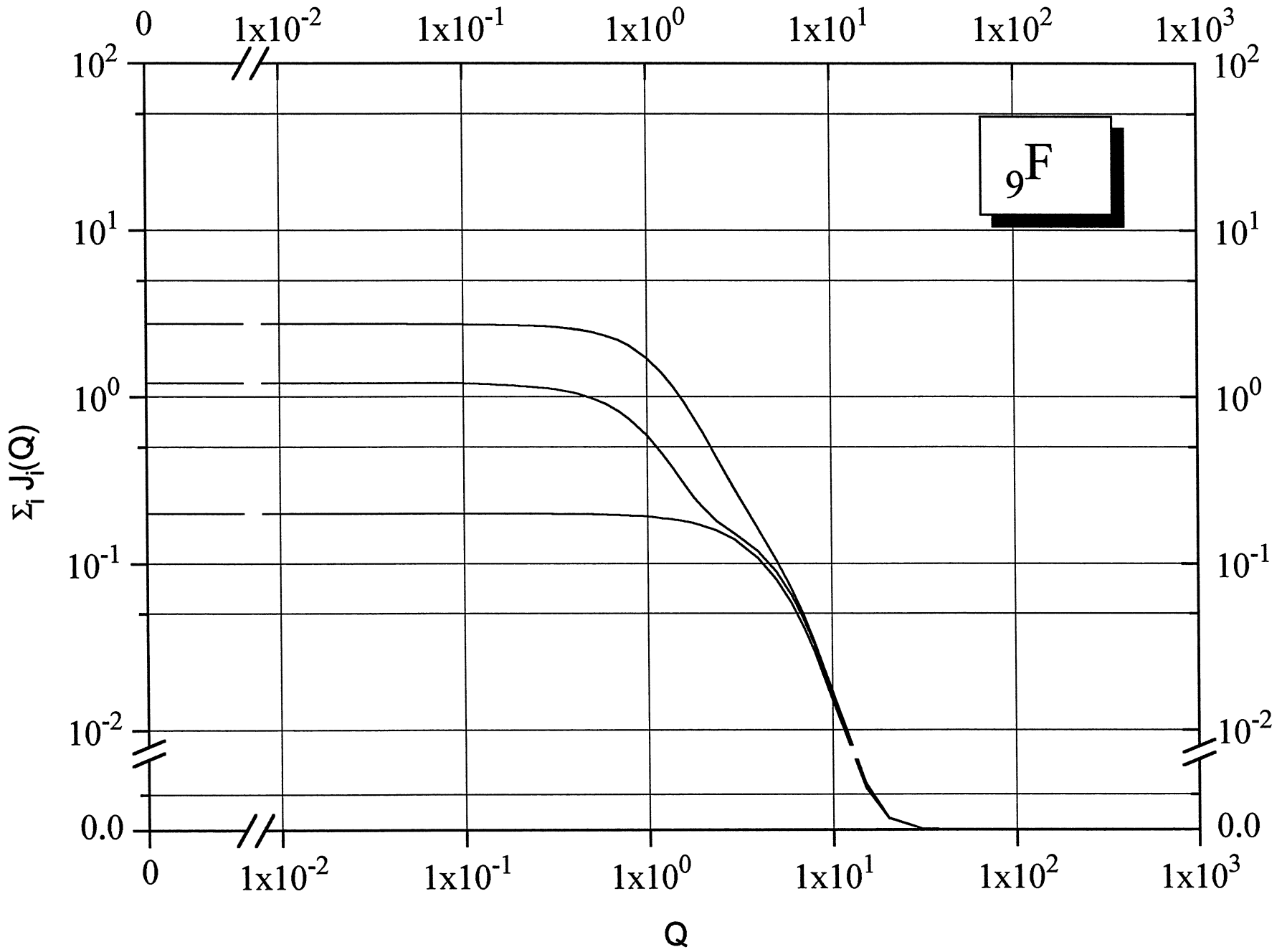
q_z	1s+(2)	2s+(2)	2p-(5)	Total
0.0E+00	2.00E-01	1.22E+00	2.75E+00	2.75E+00
5.0E-02	2.00E-01	1.21E+00	2.75E+00	2.75E+00
1.0E-01	2.00E-01	1.21E+00	2.74E+00	2.74E+00
1.5E-01	2.00E-01	1.19E+00	2.73E+00	2.73E+00
2.0E-01	2.00E-01	1.17E+00	2.70E+00	2.71E+00
3.0E-01	2.00E-01	1.12E+00	2.65E+00	2.65E+00
4.0E-01	1.99E-01	1.06E+00	2.56E+00	2.57E+00
5.0E-01	1.98E-01	9.84E-01	2.46E+00	2.46E+00
6.0E-01	1.97E-01	9.03E-01	2.33E+00	2.33E+00
7.0E-01	1.96E-01	8.20E-01	2.19E+00	2.19E+00
8.0E-01	1.95E-01	7.37E-01	2.03E+00	2.03E+00
1.0E+00	1.92E-01	5.86E-01	1.71E+00	1.71E+00
1.2E+00	1.88E-01	4.60E-01	1.40E+00	1.40E+00
1.4E+00	1.84E-01	3.67E-01	1.14E+00	1.14E+00
1.6E+00	1.80E-01	2.98E-01	9.23E-01	9.22E-01
1.8E+00	1.75E-01	2.50E-01	7.49E-01	7.50E-01
2.0E+00	1.69E-01	2.18E-01	6.15E-01	6.15E-01
2.4E+00	1.58E-01	1.79E-01	4.31E-01	4.31E-01
3.0E+00	1.39E-01	1.51E-01	2.78E-01	2.79E-01
4.0E+00	1.08E-01	1.19E-01	1.63E-01	1.63E-01
5.0E+00	8.10E-02	9.02E-02	1.06E-01	1.06E-01
6.0E+00	5.90E-02	6.57E-02	7.22E-02	7.22E-02
7.0E+00	4.22E-02	4.68E-02	4.96E-02	4.96E-02
8.0E+00	3.00E-02	3.30E-02	3.43E-02	3.43E-02
1.0E+01	1.50E-02	1.63E-02	1.67E-02	1.70E-02
1.5E+01	3.00E-03	3.22E-03	3.24E-03	3.30E-03
2.0E+01	8.00E-04	8.52E-04	8.55E-04	8.50E-04
3.0E+01	9.60E-05	1.02E-04	1.02E-04	1.00E-04
4.0E+01	1.92E-05	2.03E-05	2.03E-05	2.00E-05
6.0E+01	1.84E-06	1.94E-06	1.94E-06	1.90E-06
1.0E+02	9.00E-08	9.48E-08	9.48E-08	9.40E-08

E[keV]: 6.97E-01 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z			
0.0E+00	2.55E+00	2.75E+00	2.75E+00
5.0E-02	2.55E+00	2.75E+00	2.75E+00
1.0E-01	2.54E+00	2.74E+00	2.74E+00
1.5E-01	2.53E+00	2.73E+00	2.73E+00
2.0E-01	2.50E+00	2.70E+00	2.71E+00
3.0E-01	2.45E+00	2.65E+00	2.65E+00
4.0E-01	2.36E+00	2.56E+00	2.57E+00
5.0E-01	2.26E+00	2.46E+00	2.46E+00
6.0E-01	2.14E+00	2.33E+00	2.33E+00
7.0E-01	1.99E+00	2.19E+00	2.19E+00
8.0E-01	1.84E+00	2.03E+00	2.03E+00
1.0E+00	1.51E+00	1.71E+00	1.71E+00
1.2E+00	1.21E+00	1.40E+00	1.40E+00
1.4E+00	9.52E-01	1.14E+00	1.14E+00
1.6E+00	7.43E-01	9.23E-01	9.22E-01
1.8E+00	5.75E-01	7.49E-01	7.50E-01
2.0E+00	4.46E-01	6.15E-01	6.15E-01
2.4E+00	2.73E-01	4.31E-01	4.31E-01
3.0E+00	1.39E-01	2.78E-01	2.79E-01
4.0E+00	5.44E-02	1.63E-01	1.63E-01
5.0E+00	2.54E-02	1.06E-01	1.06E-01
6.0E+00	1.32E-02	7.22E-02	7.22E-02
7.0E+00	7.37E-03	4.96E-02	4.96E-02
8.0E+00	4.34E-03	3.43E-02	3.43E-02
1.0E+01	1.67E-03	1.67E-02	1.70E-02
1.5E+01	2.42E-04	3.24E-03	3.30E-03
2.0E+01	5.49E-05	8.55E-04	8.50E-04
3.0E+01	5.74E-06	1.02E-04	1.00E-04
4.0E+01	1.10E-06	2.03E-05	2.00E-05
6.0E+01	1.01E-07	1.94E-06	1.90E-06
1.0E+02	4.81E-09	9.48E-08	9.40E-08

E[keV]: 0.00E+00 6.97E-01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1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
9F
Σi Ji(Q)
Q

Z=10

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	Total
0.0E+00	9.00E-02	4.53E-01	2.74E-01	2.73E+00
5.0E-02	9.00E-02	4.52E-01	2.74E-01	2.72E+00
1.0E-01	8.99E-02	4.49E-01	2.74E-01	2.72E+00
1.5E-01	8.99E-02	4.44E-01	2.73E-01	2.71E+00
2.0E-01	8.98E-02	4.38E-01	2.73E-01	2.70E+00
3.0E-01	8.97E-02	4.20E-01	2.72E-01	2.65E+00
4.0E-01	8.95E-02	3.97E-01	2.70E-01	2.59E+00
5.0E-01	8.92E-02	3.69E-01	2.66E-01	2.51E+00
6.0E-01	8.88E-02	3.38E-01	2.60E-01	2.41E+00
7.0E-01	8.84E-02	3.05E-01	2.52E-01	2.30E+00
8.0E-01	8.80E-02	2.72E-01	2.41E-01	2.17E+00
1.0E+00	8.69E-02	2.09E-01	2.16E-01	1.89E+00
1.2E+00	8.55E-02	1.55E-01	1.88E-01	1.61E+00
1.4E+00	8.40E-02	1.10E-01	1.59E-01	1.35E+00
1.6E+00	8.23E-02	7.67E-02	1.33E-01	1.12E+00
1.8E+00	8.05E-02	5.22E-02	1.10E-01	9.27E-01
2.0E+00	7.84E-02	3.51E-02	9.06E-02	7.71E-01
2.4E+00	7.40E-02	1.59E-02	6.07E-02	5.44E-01
3.0E+00	6.68E-02	6.56E-03	3.32E-02	3.46E-01
4.0E+00	5.43E-02	4.93E-03	1.26E-02	1.94E-01
5.0E+00	4.24E-02	4.66E-03	5.05E-03	1.24E-01
6.0E+00	3.23E-02	3.77E-03	2.16E-03	8.51E-02
7.0E+00	2.41E-02	2.78E-03	9.84E-04	5.97E-02
8.0E+00	1.78E-02	1.96E-03	4.73E-04	4.24E-02
1.0E+01	9.60E-03	9.40E-04	1.30E-04	2.20E-02
1.5E+01	2.20E-03	1.70E-04	9.00E-06	4.80E-03
2.0E+01	6.00E-04	4.20E-05	1.20E-06	1.30E-03
3.0E+01	7.60E-05	4.70E-06	6.00E-08	1.60E-04
4.0E+01	1.60E-05	9.30E-07	6.70E-09	3.30E-05
6.0E+01	1.50E-06	8.70E-08	2.80E-10	3.30E-06
1.0E+02	7.60E-08	4.20E-09	4.80E-12	1.60E-07

E[keV]: 8.70E-01 4.85E-02 2.16E-02

Cumulative Compton profiles for the single orbitals and binding energies

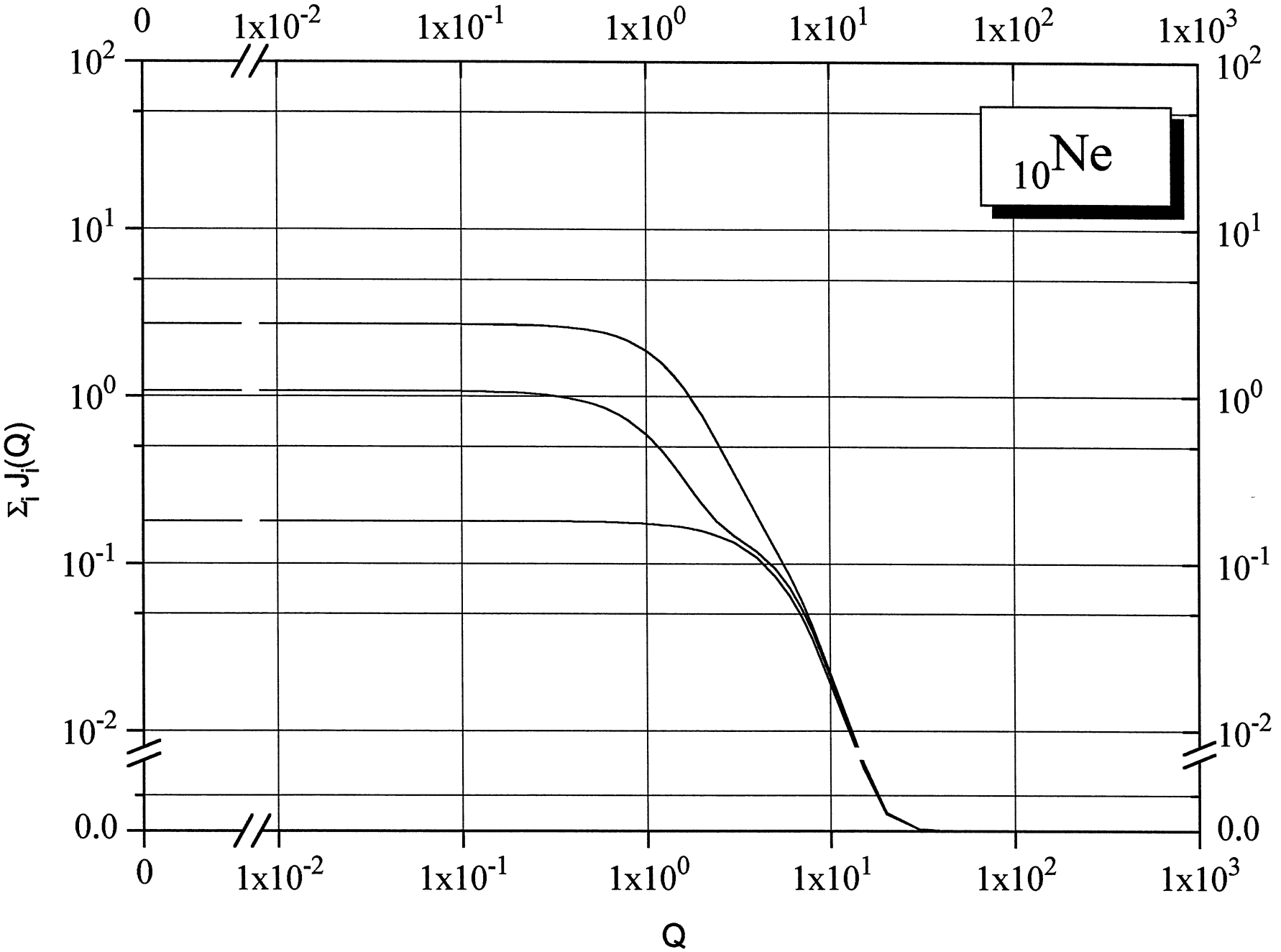
q_z	1s+(2)	2s+(2)	2p-(6)	Total
0.0E+00	1.80E-01	1.09E+00	2.73E+00	2.73E+00
5.0E-02	1.80E-01	1.08E+00	2.73E+00	2.72E+00
1.0E-01	1.80E-01	1.08E+00	2.72E+00	2.72E+00
1.5E-01	1.80E-01	1.07E+00	2.71E+00	2.71E+00
2.0E-01	1.80E-01	1.06E+00	2.69E+00	2.70E+00
3.0E-01	1.79E-01	1.02E+00	2.65E+00	2.65E+00
4.0E-01	1.79E-01	9.73E-01	2.59E+00	2.59E+00
5.0E-01	1.78E-01	9.16E-01	2.51E+00	2.51E+00
6.0E-01	1.78E-01	8.54E-01	2.41E+00	2.41E+00
7.0E-01	1.77E-01	7.87E-01	2.30E+00	2.30E+00
8.0E-01	1.76E-01	7.20E-01	2.17E+00	2.17E+00
1.0E+00	1.74E-01	5.92E-01	1.89E+00	1.89E+00
1.2E+00	1.71E-01	4.81E-01	1.61E+00	1.61E+00
1.4E+00	1.68E-01	3.88E-01	1.34E+00	1.35E+00
1.6E+00	1.65E-01	3.18E-01	1.12E+00	1.12E+00
1.8E+00	1.61E-01	2.65E-01	9.25E-01	9.27E-01
2.0E+00	1.57E-01	2.27E-01	7.71E-01	7.71E-01
2.4E+00	1.48E-01	1.80E-01	5.44E-01	5.44E-01
3.0E+00	1.34E-01	1.47E-01	3.46E-01	3.46E-01
4.0E+00	1.09E-01	1.18E-01	1.94E-01	1.94E-01
5.0E+00	8.48E-02	9.41E-02	1.24E-01	1.24E-01
6.0E+00	6.46E-02	7.21E-02	8.51E-02	8.51E-02
7.0E+00	4.82E-02	5.38E-02	5.97E-02	5.97E-02
8.0E+00	3.56E-02	3.95E-02	4.24E-02	4.24E-02
1.0E+01	1.92E-02	2.11E-02	2.19E-02	2.20E-02
1.5E+01	4.40E-03	4.74E-03	4.79E-03	4.80E-03
2.0E+01	1.20E-03	1.28E-03	1.29E-03	1.30E-03
3.0E+01	1.52E-04	1.61E-04	1.62E-04	1.60E-04
4.0E+01	3.20E-05	3.39E-05	3.39E-05	3.30E-05
6.0E+01	3.00E-06	3.17E-06	3.18E-06	3.30E-06
1.0E+02	1.52E-07	1.60E-07	1.60E-07	1.60E-07

E[keV]: 8.70E-01 4.85E-02 2.16E-02

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z				
0.0E+00	1.64E+00	2.55E+00	2.73E+00	2.73E+00
5.0E-02	1.64E+00	2.55E+00	2.73E+00	2.72E+00
1.0E-01	1.64E+00	2.54E+00	2.72E+00	2.72E+00
1.5E-01	1.64E+00	2.53E+00	2.71E+00	2.71E+00
2.0E-01	1.64E+00	2.51E+00	2.69E+00	2.70E+00
3.0E-01	1.63E+00	2.47E+00	2.65E+00	2.65E+00
4.0E-01	1.62E+00	2.41E+00	2.59E+00	2.59E+00
5.0E-01	1.60E+00	2.33E+00	2.51E+00	2.51E+00
6.0E-01	1.56E+00	2.24E+00	2.41E+00	2.41E+00
7.0E-01	1.51E+00	2.12E+00	2.30E+00	2.30E+00
8.0E-01	1.45E+00	1.99E+00	2.17E+00	2.17E+00
1.0E+00	1.30E+00	1.71E+00	1.89E+00	1.89E+00
1.2E+00	1.13E+00	1.44E+00	1.61E+00	1.61E+00
1.4E+00	9.54E-01	1.17E+00	1.34E+00	1.35E+00
1.6E+00	7.98E-01	9.51E-01	1.12E+00	1.12E+00
1.8E+00	6.60E-01	7.64E-01	9.25E-01	9.27E-01
2.0E+00	5.44E-01	6.14E-01	7.71E-01	7.71E-01
2.4E+00	3.64E-01	3.96E-01	5.44E-01	5.44E-01
3.0E+00	1.99E-01	2.12E-01	3.46E-01	3.46E-01
4.0E+00	7.56E-02	8.55E-02	1.94E-01	1.94E-01
5.0E+00	3.03E-02	3.96E-02	1.24E-01	1.24E-01
6.0E+00	1.30E-02	2.05E-02	8.51E-02	8.51E-02
7.0E+00	5.90E-03	1.15E-02	5.97E-02	5.97E-02
8.0E+00	2.84E-03	6.76E-03	4.24E-02	4.24E-02
1.0E+01	7.80E-04	2.66E-03	2.19E-02	2.20E-02
1.5E+01	5.40E-05	3.94E-04	4.79E-03	4.80E-03
2.0E+01	7.20E-06	9.12E-05	1.29E-03	1.30E-03
3.0E+01	3.60E-07	9.76E-06	1.62E-04	1.60E-04
4.0E+01	4.02E-08	1.90E-06	3.39E-05	3.30E-05
6.0E+01	1.68E-09	1.76E-07	3.18E-06	3.30E-06
1.0E+02	2.88E-11	8.43E-09	1.60E-07	1.60E-07

E[keV]: 2.16E-02 4.85E-02 8.70E-01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1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10^-1
10^-2
0.0
Σ_i J_i(Q)
Q
10Ne

Z=11

Compton profiles for the single orbitals and binding energies

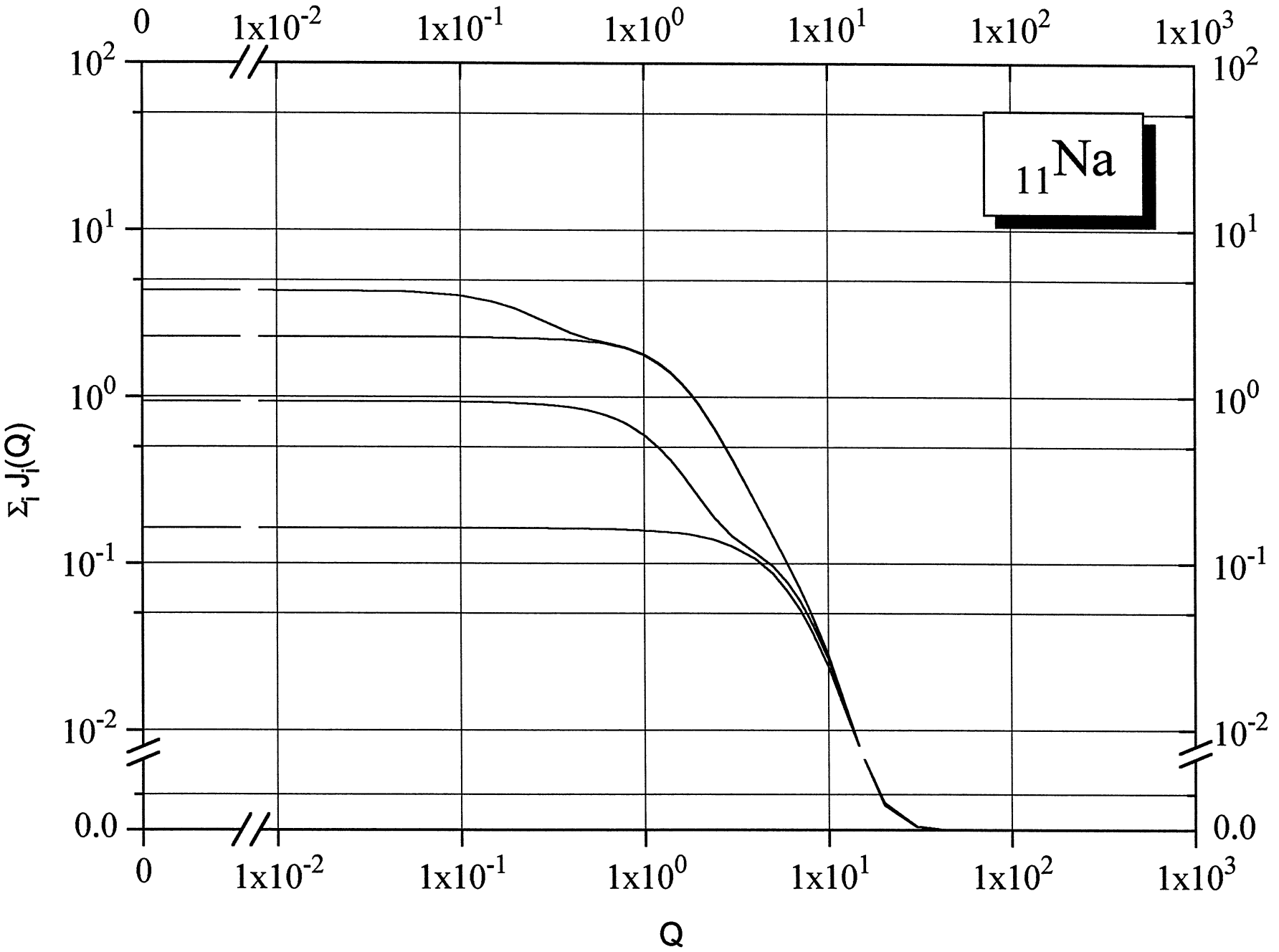
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(1)	Total
0.0E+00	8.15E-02	3.90E-01	2.25E-01	2.07E+00	4.36E+00
5.0E-02	8.15E-02	3.90E-01	2.25E-01	1.99E+00	4.28E+00
1.0E-01	8.15E-02	3.88E-01	2.25E-01	1.77E+00	4.06E+00
1.5E-01	8.15E-02	3.85E-01	2.25E-01	1.46E+00	3.74E+00
2.0E-01	8.14E-02	3.81E-01	2.24E-01	1.13E+00	3.40E+00
3.0E-01	8.13E-02	3.69E-01	2.24E-01	5.56E-01	2.80E+00
4.0E-01	8.11E-02	3.54E-01	2.23E-01	2.23E-01	2.43E+00
5.0E-01	8.09E-02	3.35E-01	2.22E-01	7.96E-02	2.24E+00
6.0E-01	8.07E-02	3.14E-01	2.20E-01	3.19E-02	2.14E+00
7.0E-01	8.04E-02	2.91E-01	2.16E-01	2.05E-02	2.06E+00
8.0E-01	8.00E-02	2.67E-01	2.12E-01	1.91E-02	1.98E+00
1.0E+00	7.92E-02	2.18E-01	1.99E-01	1.80E-02	1.81E+00
1.2E+00	7.82E-02	1.72E-01	1.82E-01	1.42E-02	1.61E+00
1.4E+00	7.71E-02	1.32E-01	1.64E-01	1.00E-02	1.41E+00
1.6E+00	7.58E-02	9.80E-02	1.44E-01	6.72E-03	1.22E+00
1.8E+00	7.43E-02	7.13E-02	1.25E-01	4.40E-03	1.05E+00
2.0E+00	7.28E-02	5.10E-02	1.08E-01	2.86E-03	8.95E-01
2.4E+00	6.94E-02	2.52E-02	7.74E-02	1.19E-03	6.55E-01
3.0E+00	6.37E-02	9.43E-03	4.60E-02	3.39E-04	4.23E-01
4.0E+00	5.34E-02	4.84E-03	1.92E-02	1.15E-04	2.32E-01
5.0E+00	4.33E-02	4.72E-03	8.32E-03	1.09E-04	1.46E-01
6.0E+00	3.42E-02	4.20E-03	3.77E-03	9.89E-05	9.96E-02
7.0E+00	2.65E-02	3.35E-03	1.80E-03	7.94E-05	7.06E-02
8.0E+00	2.03E-02	2.51E-03	8.96E-04	5.96E-05	5.10E-02
1.0E+01	1.20E-02	1.30E-03	2.50E-04	3.10E-05	2.70E-02
1.5E+01	3.00E-03	2.60E-04	1.90E-05	6.10E-06	6.60E-03
2.0E+01	8.70E-04	6.70E-05	2.60E-06	1.50E-06	1.90E-03
3.0E+01	1.20E-04	7.90E-06	1.40E-07	1.80E-07	2.50E-04
4.0E+01	2.40E-05	1.60E-06	1.50E-08	3.60E-08	5.20E-05
6.0E+01	2.40E-06	1.50E-07	6.50E-10	3.40E-09	5.20E-06
1.0E+02	1.20E-07	7.40E-09	1.10E-11	1.70E-10	2.60E-07
E[keV]:	1.07E+00	6.34E-02	3.04E-02	1.00E-03	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(1)	Total
0.0E+00	1.63E-01	9.43E-01	2.29E+00	4.36E+00	4.36E+00
5.0E-02	1.63E-01	9.43E-01	2.29E+00	4.28E+00	4.28E+00
1.0E-01	1.63E-01	9.39E-01	2.29E+00	4.06E+00	4.06E+00
1.5E-01	1.63E-01	9.33E-01	2.28E+00	3.74E+00	3.74E+00
2.0E-01	1.63E-01	9.25E-01	2.27E+00	3.40E+00	3.40E+00
3.0E-01	1.63E-01	9.01E-01	2.24E+00	2.80E+00	2.80E+00
4.0E-01	1.62E-01	8.70E-01	2.21E+00	2.43E+00	2.43E+00
5.0E-01	1.62E-01	8.32E-01	2.16E+00	2.24E+00	2.24E+00
6.0E-01	1.61E-01	7.89E-01	2.11E+00	2.14E+00	2.14E+00
7.0E-01	1.61E-01	7.43E-01	2.04E+00	2.06E+00	2.06E+00
8.0E-01	1.60E-01	6.94E-01	1.97E+00	1.99E+00	1.98E+00
1.0E+00	1.58E-01	5.94E-01	1.79E+00	1.81E+00	1.81E+00
1.2E+00	1.56E-01	5.00E-01	1.59E+00	1.61E+00	1.61E+00
1.4E+00	1.54E-01	4.18E-01	1.40E+00	1.41E+00	1.41E+00
1.6E+00	1.52E-01	3.48E-01	1.21E+00	1.22E+00	1.22E+00
1.8E+00	1.49E-01	2.91E-01	1.04E+00	1.05E+00	1.05E+00
2.0E+00	1.46E-01	2.48E-01	8.96E-01	8.98E-01	8.95E-01
2.4E+00	1.39E-01	1.89E-01	6.54E-01	6.55E-01	6.55E-01
3.0E+00	1.27E-01	1.46E-01	4.22E-01	4.23E-01	4.23E-01
4.0E+00	1.07E-01	1.16E-01	2.32E-01	2.32E-01	2.32E-01
5.0E+00	8.66E-02	9.60E-02	1.46E-01	1.46E-01	1.46E-01
6.0E+00	6.84E-02	7.68E-02	9.94E-02	9.95E-02	9.96E-02
7.0E+00	5.30E-02	5.97E-02	7.05E-02	7.06E-02	7.06E-02
8.0E+00	4.06E-02	4.56E-02	5.10E-02	5.11E-02	5.10E-02
1.0E+01	2.40E-02	2.66E-02	2.81E-02	2.81E-02	2.70E-02
1.5E+01	6.00E-03	6.52E-03	6.63E-03	6.64E-03	6.60E-03
2.0E+01	1.74E-03	1.87E-03	1.89E-03	1.89E-03	1.90E-03
3.0E+01	2.40E-04	2.56E-04	2.57E-04	2.57E-04	2.50E-04
4.0E+01	4.80E-05	5.12E-05	5.13E-05	5.13E-05	5.20E-05
6.0E+01	4.80E-06	5.10E-06	5.10E-06	5.11E-06	5.20E-06
1.0E+02	2.40E-07	2.55E-07	2.55E-07	2.55E-07	2.60E-07
E[keV]:	1.07E+00	6.34E-02	3.04E-02	1.00E-03	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z					
0.0E+00	2.07E+00	3.42E+00	4.20E+00	4.36E+00	4.36E+00
5.0E-02	1.99E+00	3.34E+00	4.12E+00	4.28E+00	4.28E+00
1.0E-01	1.77E+00	3.12E+00	3.90E+00	4.06E+00	4.06E+00
1.5E-01	1.46E+00	2.81E+00	3.58E+00	3.74E+00	3.74E+00
2.0E-01	1.13E+00	2.47E+00	3.24E+00	3.40E+00	3.40E+00
3.0E-01	5.56E-01	1.90E+00	2.64E+00	2.80E+00	2.80E+00
4.0E-01	2.23E-01	1.56E+00	2.27E+00	2.43E+00	2.43E+00
5.0E-01	7.96E-02	1.41E+00	2.08E+00	2.24E+00	2.24E+00
6.0E-01	3.19E-02	1.35E+00	1.98E+00	2.14E+00	2.14E+00
7.0E-01	2.05E-02	1.32E+00	1.90E+00	2.06E+00	2.06E+00
8.0E-01	1.91E-02	1.29E+00	1.83E+00	1.99E+00	1.98E+00
1.0E+00	1.80E-02	1.21E+00	1.65E+00	1.81E+00	1.81E+00
1.2E+00	1.42E-02	1.11E+00	1.45E+00	1.61E+00	1.61E+00
1.4E+00	1.00E-02	9.94E-01	1.26E+00	1.41E+00	1.41E+00
1.6E+00	6.72E-03	8.71E-01	1.07E+00	1.22E+00	1.22E+00
1.8E+00	4.40E-03	7.54E-01	8.97E-01	1.05E+00	1.05E+00
2.0E+00	2.86E-03	6.51E-01	7.53E-01	8.98E-01	8.95E-01
2.4E+00	1.19E-03	4.66E-01	5.16E-01	6.55E-01	6.55E-01
3.0E+00	3.39E-04	2.76E-01	2.95E-01	4.23E-01	4.23E-01
4.0E+00	1.15E-04	1.15E-01	1.25E-01	2.32E-01	2.32E-01
5.0E+00	1.09E-04	5.00E-02	5.95E-02	1.46E-01	1.46E-01
6.0E+00	9.89E-05	2.27E-02	3.11E-02	9.95E-02	9.96E-02
7.0E+00	7.94E-05	1.09E-02	1.76E-02	7.06E-02	7.06E-02
8.0E+00	5.96E-05	5.44E-03	1.05E-02	5.11E-02	5.10E-02
1.0E+01	3.10E-05	1.53E-03	4.13E-03	2.81E-02	2.70E-02
1.5E+01	6.10E-06	1.20E-04	6.40E-04	6.64E-03	6.60E-03
2.0E+01	1.50E-06	1.71E-05	1.51E-04	1.89E-03	1.90E-03
3.0E+01	1.80E-07	1.02E-06	1.68E-05	2.57E-04	2.50E-04
4.0E+01	3.60E-08	1.26E-07	3.33E-06	5.13E-05	5.20E-05
6.0E+01	3.40E-09	7.30E-09	3.07E-07	5.11E-06	5.20E-06
1.0E+02	1.70E-10	2.36E-10	1.50E-08	2.55E-07	2.60E-07
E[keV]:	1.00E-03	3.04E-02	6.34E-02	1.07E+00	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10-1
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11Na
Σi Ji(Q)
Q

Z=12

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	Total
0.0E+00	7.45E-02	3.42E-01	1.92E-01	1.59E+00	5.16E+00
5.0E-02	7.45E-02	3.42E-01	1.92E-01	1.55E+00	5.08E+00
1.0E-01	7.45E-02	3.40E-01	1.92E-01	1.44E+00	4.86E+00
1.5E-01	7.45E-02	3.38E-01	1.92E-01	1.28E+00	4.54E+00
2.0E-01	7.44E-02	3.36E-01	1.92E-01	1.09E+00	4.15E+00
3.0E-01	7.43E-02	3.28E-01	1.92E-01	6.96E-01	3.35E+00
4.0E-01	7.42E-02	3.17E-01	1.91E-01	3.87E-01	2.71E+00
5.0E-01	7.40E-02	3.05E-01	1.91E-01	1.93E-01	2.29E+00
6.0E-01	7.38E-02	2.90E-01	1.90E-01	9.11E-02	2.05E+00
7.0E-01	7.36E-02	2.73E-01	1.88E-01	4.49E-02	1.91E+00
8.0E-01	7.33E-02	2.55E-01	1.86E-01	2.72E-02	1.83E+00
1.0E+00	7.27E-02	2.18E-01	1.79E-01	2.12E-02	1.70E+00
1.2E+00	7.20E-02	1.81E-01	1.69E-01	2.07E-02	1.56E+00
1.4E+00	7.11E-02	1.46E-01	1.58E-01	1.81E-02	1.42E+00
1.6E+00	7.01E-02	1.15E-01	1.44E-01	1.44E-02	1.26E+00
1.8E+00	6.90E-02	8.83E-02	1.30E-01	1.07E-02	1.12E+00
2.0E+00	6.78E-02	6.67E-02	1.16E-01	7.63E-03	9.80E-01
2.4E+00	6.51E-02	3.64E-02	8.94E-02	3.64E-03	7.47E-01
3.0E+00	6.05E-02	1.43E-02	5.78E-02	1.12E-03	4.99E-01
4.0E+00	5.21E-02	5.17E-03	2.67E-02	2.37E-04	2.75E-01
5.0E+00	4.35E-02	4.59E-03	1.24E-02	1.74E-04	1.71E-01
6.0E+00	3.54E-02	4.41E-03	5.93E-03	1.70E-04	1.16E-01
7.0E+00	2.83E-02	3.79E-03	2.95E-03	1.48E-04	8.22E-02
8.0E+00	2.23E-02	3.02E-03	1.52E-03	1.18E-04	6.01E-02
1.0E+01	1.40E-02	1.70E-03	4.50E-04	6.70E-05	3.30E-02
1.5E+01	3.80E-03	3.90E-04	3.70E-05	1.50E-05	8.60E-03
2.0E+01	1.20E-03	1.00E-04	5.20E-06	3.90E-06	2.60E-03
3.0E+01	1.70E-04	1.30E-05	2.80E-07	4.70E-07	3.60E-04
4.0E+01	3.60E-05	2.60E-06	3.20E-08	9.60E-08	7.80E-05
6.0E+01	3.70E-06	2.50E-07	1.40E-09	9.30E-09	8.00E-06
1.0E+02	1.90E-07	1.20E-08	2.40E-11	4.50E-10	4.00E-07

E[keV]:	1.30E+00	8.86E-02	4.93E-02	0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

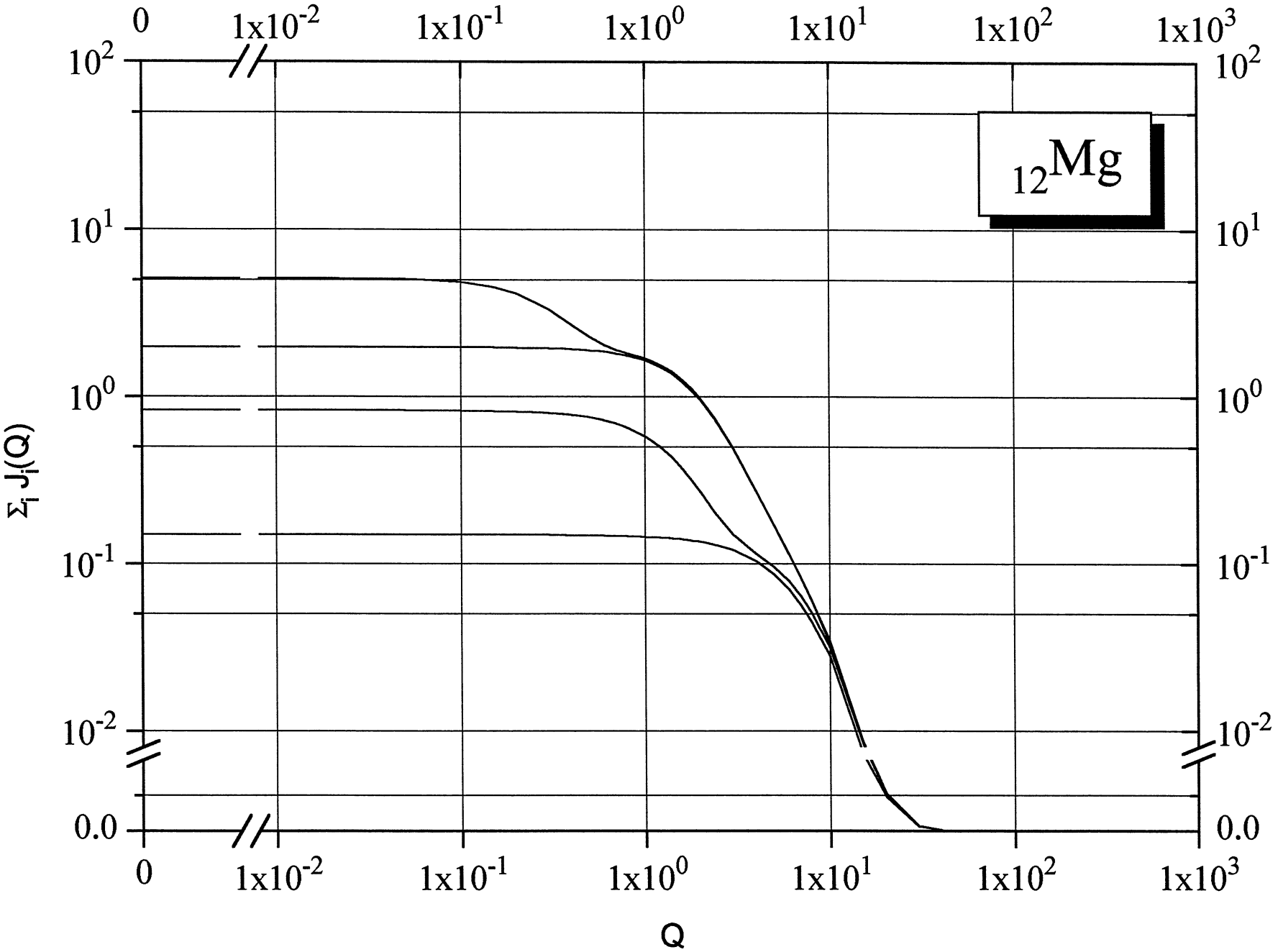
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	Total
0.0E+00	1.49E-01	8.33E-01	1.99E+00	5.17E+00	5.16E+00
5.0E-02	1.49E-01	8.33E-01	1.99E+00	5.08E+00	5.08E+00
1.0E-01	1.49E-01	8.29E-01	1.98E+00	4.86E+00	4.86E+00
1.5E-01	1.49E-01	8.25E-01	1.98E+00	4.54E+00	4.54E+00
2.0E-01	1.49E-01	8.21E-01	1.97E+00	4.15E+00	4.15E+00
3.0E-01	1.49E-01	8.05E-01	1.96E+00	3.35E+00	3.35E+00
4.0E-01	1.48E-01	7.82E-01	1.93E+00	2.70E+00	2.71E+00
5.0E-01	1.48E-01	7.58E-01	1.90E+00	2.29E+00	2.29E+00
6.0E-01	1.48E-01	7.28E-01	1.87E+00	2.05E+00	2.05E+00
7.0E-01	1.47E-01	6.93E-01	1.82E+00	1.91E+00	1.91E+00
8.0E-01	1.47E-01	6.57E-01	1.77E+00	1.83E+00	1.83E+00
1.0E+00	1.45E-01	5.81E-01	1.66E+00	1.70E+00	1.70E+00
1.2E+00	1.44E-01	5.06E-01	1.52E+00	1.56E+00	1.56E+00
1.4E+00	1.42E-01	4.34E-01	1.38E+00	1.42E+00	1.42E+00
1.6E+00	1.40E-01	3.70E-01	1.23E+00	1.26E+00	1.26E+00
1.8E+00	1.38E-01	3.15E-01	1.09E+00	1.12E+00	1.12E+00
2.0E+00	1.36E-01	2.69E-01	9.65E-01	9.80E-01	9.80E-01
2.4E+00	1.30E-01	2.03E-01	7.39E-01	7.47E-01	7.47E-01
3.0E+00	1.21E-01	1.50E-01	4.96E-01	4.99E-01	4.99E-01
4.0E+00	1.04E-01	1.15E-01	2.75E-01	2.75E-01	2.75E-01
5.0E+00	8.70E-02	9.62E-02	1.71E-01	1.71E-01	1.71E-01
6.0E+00	7.08E-02	7.96E-02	1.15E-01	1.16E-01	1.16E-01
7.0E+00	5.66E-02	6.42E-02	8.19E-02	8.22E-02	8.22E-02
8.0E+00	4.46E-02	5.06E-02	5.98E-02	6.00E-02	6.01E-02
1.0E+01	2.80E-02	3.14E-02	3.41E-02	3.42E-02	3.30E-02
1.5E+01	7.60E-03	8.38E-03	8.60E-03	8.63E-03	8.60E-03
2.0E+01	2.40E-03	2.60E-03	2.63E-03	2.64E-03	2.60E-03
3.0E+01	3.40E-04	3.66E-04	3.68E-04	3.69E-04	3.60E-04
4.0E+01	7.20E-05	7.72E-05	7.74E-05	7.76E-05	7.80E-05
6.0E+01	7.40E-06	7.90E-06	7.91E-06	7.93E-06	8.00E-06
1.0E+02	3.80E-07	4.04E-07	4.04E-07	4.05E-07	4.00E-07

E[keV]:	1.30E+00	8.86E-02	4.93E-02	0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z				
0.0E+00	3.18E+00	4.33E+00	5.02E+00	5.17E+00	5.16E+00
5.0E-02	3.10E+00	4.25E+00	4.94E+00	5.08E+00	5.08E+00
1.0E-01	2.88E+00	4.03E+00	4.71E+00	4.86E+00	4.86E+00
1.5E-01	2.56E+00	3.71E+00	4.39E+00	4.54E+00	4.54E+00
2.0E-01	2.18E+00	3.33E+00	4.00E+00	4.15E+00	4.15E+00
3.0E-01	1.39E+00	2.54E+00	3.20E+00	3.35E+00	3.35E+00
4.0E-01	7.74E-01	1.92E+00	2.55E+00	2.70E+00	2.71E+00
5.0E-01	3.86E-01	1.53E+00	2.14E+00	2.29E+00	2.29E+00
6.0E-01	1.82E-01	1.32E+00	1.90E+00	2.05E+00	2.05E+00
7.0E-01	8.98E-02	1.22E+00	1.76E+00	1.91E+00	1.91E+00
8.0E-01	5.44E-02	1.17E+00	1.68E+00	1.83E+00	1.83E+00
1.0E+00	4.24E-02	1.12E+00	1.55E+00	1.70E+00	1.70E+00
1.2E+00	4.14E-02	1.08E+00	1.42E+00	1.56E+00	1.56E+00
1.4E+00	3.62E-02	9.84E-01	1.28E+00	1.42E+00	1.42E+00
1.6E+00	2.88E-02	8.93E-01	1.12E+00	1.26E+00	1.26E+00
1.8E+00	2.14E-02	8.01E-01	9.78E-01	1.12E+00	1.12E+00
2.0E+00	1.53E-02	7.11E-01	8.45E-01	9.80E-01	9.80E-01
2.4E+00	7.28E-03	5.44E-01	6.16E-01	7.47E-01	7.47E-01
3.0E+00	2.24E-03	3.49E-01	3.78E-01	4.99E-01	4.99E-01
4.0E+00	4.74E-04	1.61E-01	1.71E-01	2.75E-01	2.75E-01
5.0E+00	3.48E-04	7.47E-02	8.39E-02	1.71E-01	1.71E-01
6.0E+00	3.40E-04	3.59E-02	4.47E-02	1.16E-01	1.16E-01
7.0E+00	2.96E-04	1.80E-02	2.56E-02	8.22E-02	8.22E-02
8.0E+00	2.36E-04	9.36E-03	1.54E-02	6.00E-02	6.01E-02
1.0E+01	1.34E-04	2.82E-03	6.23E-03	3.42E-02	3.30E-02
1.5E+01	3.00E-05	2.52E-04	1.03E-03	8.63E-03	8.60E-03
2.0E+01	7.80E-06	3.90E-05	2.39E-04	2.64E-03	2.60E-03
3.0E+01	9.40E-07	2.62E-06	2.86E-05	3.69E-04	3.60E-04
4.0E+01	1.92E-07	3.84E-07	5.58E-06	7.76E-05	7.80E-05
6.0E+01	1.86E-08	2.70E-08	5.27E-07	7.93E-06	8.00E-06
1.0E+02	9.00E-10	1.04E-09	2.50E-08	4.05E-07	4.00E-07

E[keV]:	0.00E+00	4.93E-02	8.86E-02	1.30E+00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10^1
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10-1
10-2
0.0
12Mg
Σi Ji(Q)
Q

Z=13

Compton profiles for the single orbitals and binding energies

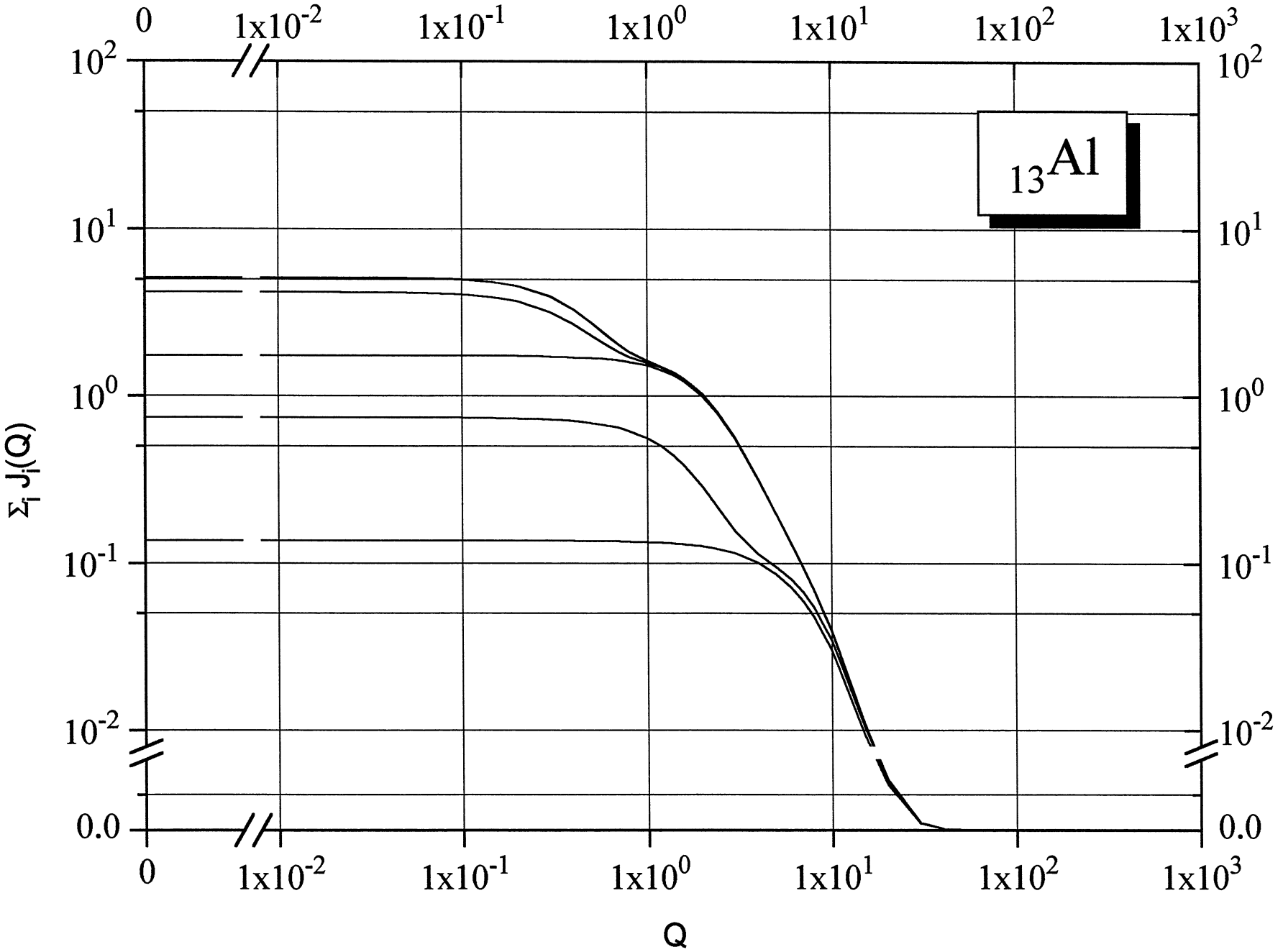
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(1)	Total
0.0E+00	6.86E-02	3.05E-01	1.68E-01	1.24E+00	9.19E-01	5.15E+00
5.0E-02	6.86E-02	3.04E-01	1.68E-01	1.22E+00	9.18E-01	5.11E+00
1.0E-01	6.86E-02	3.04E-01	1.68E-01	1.17E+00	9.16E-01	5.00E+00
1.5E-01	6.85E-02	3.02E-01	1.68E-01	1.08E+00	9.04E-01	4.82E+00
2.0E-01	6.85E-02	3.00E-01	1.68E-01	9.75E-01	8.79E-01	4.57E+00
3.0E-01	6.84E-02	2.95E-01	1.67E-01	7.29E-01	7.76E-01	3.97E+00
4.0E-01	6.83E-02	2.87E-01	1.67E-01	4.94E-01	6.19E-01	3.32E+00
5.0E-01	6.82E-02	2.78E-01	1.67E-01	3.08E-01	4.52E-01	2.76E+00
6.0E-01	6.81E-02	2.67E-01	1.66E-01	1.80E-01	3.07E-01	2.34E+00
7.0E-01	6.79E-02	2.55E-01	1.66E-01	1.01E-01	1.99E-01	2.04E+00
8.0E-01	6.77E-02	2.41E-01	1.64E-01	5.75E-02	1.24E-01	1.84E+00
1.0E+00	6.72E-02	2.13E-01	1.61E-01	2.71E-02	4.52E-02	1.62E+00
1.2E+00	6.66E-02	1.83E-01	1.55E-01	2.33E-02	1.62E-02	1.49E+00
1.4E+00	6.59E-02	1.53E-01	1.48E-01	2.31E-02	6.66E-03	1.38E+00
1.6E+00	6.51E-02	1.26E-01	1.39E-01	2.12E-02	4.02E-03	1.26E+00
1.8E+00	6.42E-02	1.01E-01	1.29E-01	1.79E-02	3.50E-03	1.14E+00
2.0E+00	6.33E-02	8.01E-02	1.18E-01	1.43E-02	3.46E-03	1.03E+00
2.4E+00	6.11E-02	4.79E-02	9.64E-02	8.06E-03	3.28E-03	8.16E-01
3.0E+00	5.75E-02	2.07E-02	6.73E-02	2.93E-03	2.49E-03	5.68E-01
4.0E+00	5.05E-02	6.25E-03	3.43E-02	5.41E-04	1.27E-03	3.22E-01
5.0E+00	4.32E-02	4.45E-03	1.71E-02	2.52E-04	6.18E-04	1.99E-01
6.0E+00	3.61E-02	4.39E-03	8.63E-03	2.41E-04	3.07E-04	1.34E-01
7.0E+00	2.96E-02	4.04E-03	4.47E-03	2.27E-04	1.57E-04	9.48E-02
8.0E+00	2.39E-02	3.42E-03	2.39E-03	1.94E-04	8.33E-05	6.96E-02
1.0E+01	1.50E-02	2.10E-03	7.50E-04	1.20E-04	2.60E-05	3.90E-02
1.5E+01	4.70E-03	5.30E-04	6.60E-05	3.00E-05	2.20E-06	1.10E-02
2.0E+01	1.60E-03	1.50E-04	9.70E-06	8.20E-06	3.20E-07	3.50E-03
3.0E+01	2.40E-04	1.90E-05	5.30E-07	1.00E-06	1.70E-08	5.10E-04
4.0E+01	5.20E-05	4.00E-06	6.10E-08	2.10E-07	2.00E-09	1.10E-04
6.0E+01	5.50E-06	3.90E-07	2.70E-09	2.10E-08	8.60E-11	1.20E-05
1.0E+02	2.80E-07	1.90E-08	4.80E-11	1.00E-09	1.60E-12	6.00E-07
E[keV]:	1.56E+00	1.18E-01	7.28E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(1)	Total
0.0E+00	1.37E-01	7.47E-01	1.76E+00	4.24E+00	5.15E+00	5.15E+00
5.0E-02	1.37E-01	7.45E-01	1.75E+00	4.19E+00	5.11E+00	5.11E+00
1.0E-01	1.37E-01	7.45E-01	1.75E+00	4.09E+00	5.01E+00	5.00E+00
1.5E-01	1.37E-01	7.41E-01	1.75E+00	3.91E+00	4.81E+00	4.82E+00
2.0E-01	1.37E-01	7.37E-01	1.75E+00	3.70E+00	4.57E+00	4.57E+00
3.0E-01	1.37E-01	7.27E-01	1.73E+00	3.19E+00	3.96E+00	3.97E+00
4.0E-01	1.37E-01	7.11E-01	1.71E+00	2.70E+00	3.32E+00	3.32E+00
5.0E-01	1.36E-01	6.92E-01	1.69E+00	2.31E+00	2.76E+00	2.76E+00
6.0E-01	1.36E-01	6.70E-01	1.67E+00	2.03E+00	2.33E+00	2.34E+00
7.0E-01	1.36E-01	6.46E-01	1.64E+00	1.84E+00	2.04E+00	2.04E+00
8.0E-01	1.35E-01	6.17E-01	1.60E+00	1.72E+00	1.84E+00	1.84E+00
1.0E+00	1.34E-01	5.60E-01	1.53E+00	1.58E+00	1.63E+00	1.62E+00
1.2E+00	1.33E-01	4.99E-01	1.43E+00	1.48E+00	1.49E+00	1.49E+00
1.4E+00	1.32E-01	4.38E-01	1.33E+00	1.37E+00	1.38E+00	1.38E+00
1.6E+00	1.30E-01	3.82E-01	1.22E+00	1.26E+00	1.26E+00	1.26E+00
1.8E+00	1.28E-01	3.30E-01	1.10E+00	1.14E+00	1.14E+00	1.14E+00
2.0E+00	1.27E-01	2.87E-01	9.95E-01	1.02E+00	1.03E+00	1.03E+00
2.4E+00	1.22E-01	2.18E-01	7.96E-01	8.13E-01	8.16E-01	8.16E-01
3.0E+00	1.15E-01	1.56E-01	5.60E-01	5.66E-01	5.69E-01	5.68E-01
4.0E+00	1.01E-01	1.14E-01	3.19E-01	3.20E-01	3.22E-01	3.22E-01
5.0E+00	8.64E-02	9.53E-02	1.98E-01	1.98E-01	1.99E-01	1.99E-01
6.0E+00	7.22E-02	8.10E-02	1.33E-01	1.33E-01	1.34E-01	1.34E-01
7.0E+00	5.92E-02	6.73E-02	9.41E-02	9.46E-02	9.47E-02	9.48E-02
8.0E+00	4.78E-02	5.46E-02	6.90E-02	6.94E-02	6.95E-02	6.96E-02
1.0E+01	3.00E-02	3.42E-02	3.87E-02	3.89E-02	3.90E-02	3.90E-02
1.5E+01	9.40E-03	1.05E-02	1.09E-02	1.09E-02	1.09E-02	1.10E-02
2.0E+01	3.20E-03	3.50E-03	3.56E-03	3.57E-03	3.57E-03	3.50E-03
3.0E+01	4.80E-04	5.18E-04	5.21E-04	5.23E-04	5.23E-04	5.10E-04
4.0E+01	1.04E-04	1.12E-04	1.12E-04	1.13E-04	1.13E-04	1.10E-04
6.0E+01	1.10E-05	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.20E-05
1.0E+02	5.60E-07	5.98E-07	5.98E-07	6.00E-07	6.00E-07	6.00E-07
E[keV]:	1.56E+00	1.18E-01	7.28E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z					
0.0E+00	3.40E+00	4.41E+00	5.02E+00	5.15E+00	5.15E+00
5.0E-02	3.36E+00	4.37E+00	4.97E+00	5.11E+00	5.11E+00
1.0E-01	3.26E+00	4.26E+00	4.87E+00	5.01E+00	5.00E+00
1.5E-01	3.06E+00	4.07E+00	4.68E+00	4.81E+00	4.82E+00
2.0E-01	2.83E+00	3.84E+00	4.44E+00	4.57E+00	4.57E+00
3.0E-01	2.23E+00	3.24E+00	3.83E+00	3.96E+00	3.97E+00
4.0E-01	1.61E+00	2.61E+00	3.18E+00	3.32E+00	3.32E+00
5.0E-01	1.07E+00	2.07E+00	2.63E+00	2.76E+00	2.76E+00
6.0E-01	6.67E-01	1.66E+00	2.20E+00	2.33E+00	2.34E+00
7.0E-01	4.01E-01	1.40E+00	1.91E+00	2.04E+00	2.04E+00
8.0E-01	2.39E-01	1.22E+00	1.70E+00	1.84E+00	1.84E+00
1.0E+00	9.94E-02	1.07E+00	1.49E+00	1.63E+00	1.62E+00
1.2E+00	6.28E-02	9.93E-01	1.36E+00	1.49E+00	1.49E+00
1.4E+00	5.29E-02	9.41E-01	1.25E+00	1.38E+00	1.38E+00
1.6E+00	4.64E-02	8.80E-01	1.13E+00	1.26E+00	1.26E+00
1.8E+00	3.93E-02	8.13E-01	1.02E+00	1.14E+00	1.14E+00
2.0E+00	3.21E-02	7.40E-01	9.00E-01	1.03E+00	1.03E+00
2.4E+00	1.94E-02	5.98E-01	6.94E-01	8.16E-01	8.16E-01
3.0E+00	8.35E-03	4.12E-01	4.54E-01	5.69E-01	5.68E-01
4.0E+00	2.35E-03	2.08E-01	2.21E-01	3.22E-01	3.22E-01
5.0E+00	1.12E-03	1.04E-01	1.13E-01	1.99E-01	1.99E-01
6.0E+00	7.89E-04	5.26E-02	6.13E-02	1.34E-01	1.34E-01
7.0E+00	6.11E-04	2.74E-02	3.55E-02	9.47E-02	9.48E-02
8.0E+00	4.71E-04	1.48E-02	2.17E-02	6.95E-02	6.96E-02
1.0E+01	2.66E-04	4.77E-03	8.97E-03	3.90E-02	3.90E-02
1.5E+01	6.22E-05	4.58E-04	1.52E-03	1.09E-02	1.10E-02
2.0E+01	1.67E-05	7.49E-05	3.75E-04	3.57E-03	3.50E-03
3.0E+01	2.02E-06	5.20E-06	4.32E-05	5.23E-04	5.10E-04
4.0E+01	4.22E-07	7.88E-07	8.79E-06	1.13E-04	1.10E-04
6.0E+01	4.21E-08	5.83E-08	8.38E-07	1.18E-05	1.20E-05
1.0E+02	2.00E-09	2.29E-09	4.03E-08	6.00E-07	6.00E-07
E[keV]:	0.00E+00	7.28E-02	1.18E-01	1.56E+00	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1x102
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101
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13Al
Σi Ji(Q)
Q

Z=14

Compton profiles for the single orbitals and binding energies

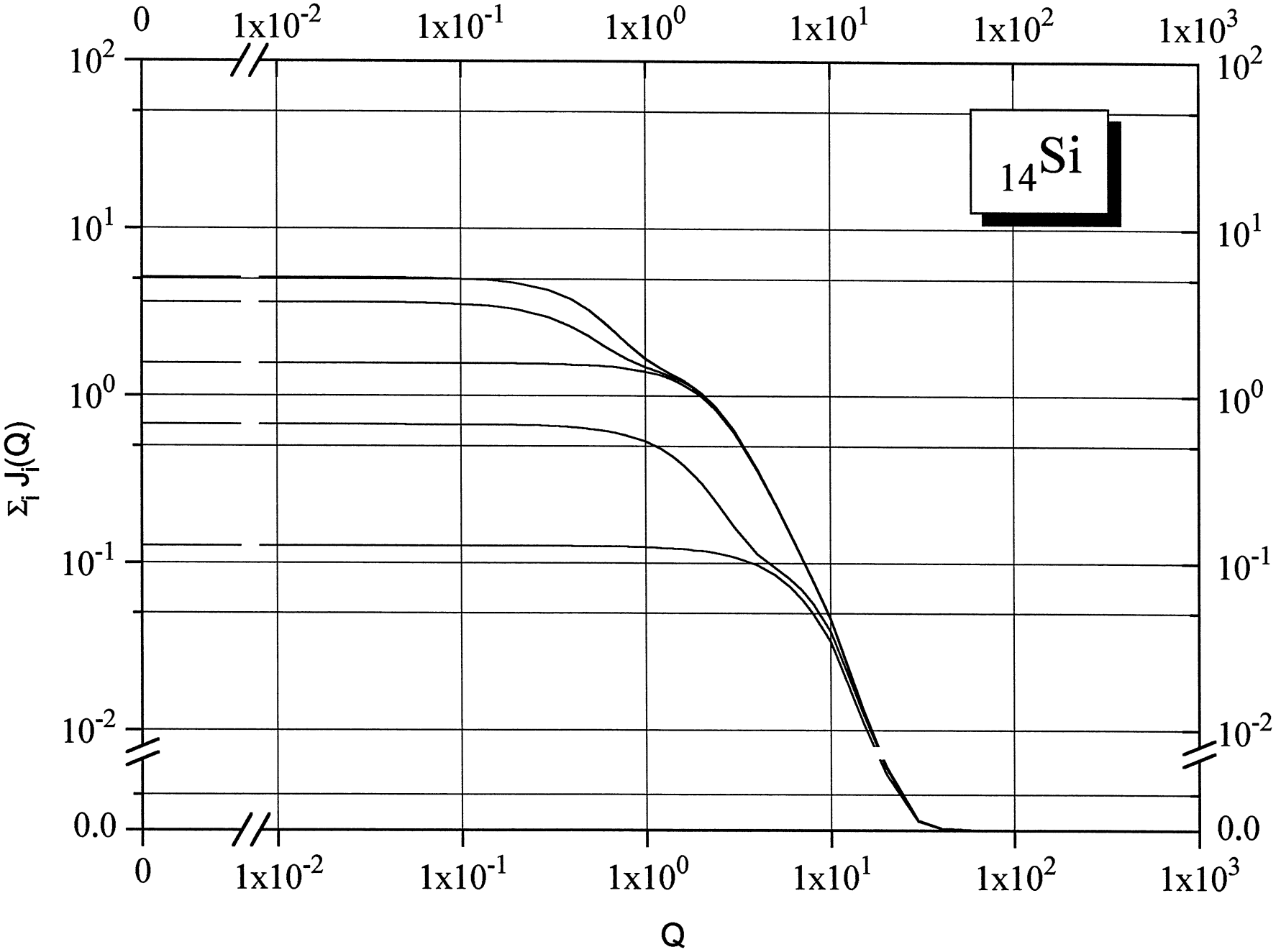
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(2)	Total
0.0E+00	6.35E-02	2.75E-01	1.49E-01	1.04E+00	7.44E-01	5.13E+00
5.0E-02	6.35E-02	2.75E-01	1.49E-01	1.03E+00	7.44E-01	5.11E+00
1.0E-01	6.35E-02	2.74E-01	1.49E-01	9.92E-01	7.43E-01	5.04E+00
1.5E-01	6.35E-02	2.73E-01	1.49E-01	9.40E-01	7.39E-01	4.92E+00
2.0E-01	6.35E-02	2.72E-01	1.49E-01	8.72E-01	7.28E-01	4.76E+00
3.0E-01	6.34E-02	2.68E-01	1.49E-01	7.07E-01	6.81E-01	4.33E+00
4.0E-01	6.33E-02	2.62E-01	1.49E-01	5.31E-01	5.97E-01	3.80E+00
5.0E-01	6.32E-02	2.55E-01	1.49E-01	3.74E-01	4.90E-01	3.26E+00
6.0E-01	6.31E-02	2.47E-01	1.48E-01	2.48E-01	3.80E-01	2.77E+00
7.0E-01	6.30E-02	2.37E-01	1.48E-01	1.58E-01	2.81E-01	2.37E+00
8.0E-01	6.28E-02	2.27E-01	1.47E-01	9.79E-02	2.01E-01	2.06E+00
1.0E+00	6.24E-02	2.05E-01	1.45E-01	4.07E-02	9.46E-02	1.67E+00
1.2E+00	6.19E-02	1.81E-01	1.42E-01	2.56E-02	4.19E-02	1.47E+00
1.4E+00	6.14E-02	1.56E-01	1.37E-01	2.37E-02	1.83E-02	1.34E+00
1.6E+00	6.08E-02	1.32E-01	1.31E-01	2.35E-02	8.72E-03	1.24E+00
1.8E+00	6.01E-02	1.10E-01	1.24E-01	2.21E-02	5.24E-03	1.14E+00
2.0E+00	5.93E-02	9.06E-02	1.16E-01	1.94E-02	4.21E-03	1.04E+00
2.4E+00	5.76E-02	5.84E-02	9.92E-02	1.29E-02	4.01E-03	8.61E-01
3.0E+00	5.45E-02	2.79E-02	7.40E-02	5.66E-03	3.60E-03	6.28E-01
4.0E+00	4.88E-02	8.22E-03	4.14E-02	1.16E-03	2.17E-03	3.69E-01
5.0E+00	4.25E-02	4.50E-03	2.21E-02	3.61E-04	1.15E-03	2.30E-01
6.0E+00	3.63E-02	4.25E-03	1.18E-02	2.87E-04	5.99E-04	1.53E-01
7.0E+00	3.04E-02	4.12E-03	6.36E-03	2.83E-04	3.19E-04	1.08E-01
8.0E+00	2.52E-02	3.69E-03	3.52E-03	2.58E-04	1.74E-04	7.97E-02
1.0E+01	1.70E-02	2.50E-03	1.20E-03	1.80E-04	5.60E-05	4.60E-02
1.5E+01	5.60E-03	7.00E-04	1.10E-04	4.90E-05	5.20E-06	1.30E-02
2.0E+01	2.00E-03	2.10E-04	1.70E-05	1.40E-05	7.70E-07	4.50E-03
3.0E+01	3.20E-04	2.80E-05	9.40E-07	1.90E-06	4.30E-08	7.00E-04
4.0E+01	7.30E-05	5.90E-06	1.10E-07	3.90E-07	5.00E-09	1.60E-04
6.0E+01	7.80E-06	5.90E-07	4.90E-09	3.90E-08	2.20E-10	1.70E-05
1.0E+02	4.00E-07	2.90E-08	8.90E-11	1.90E-09	4.10E-12	8.70E-07
E[keV]:	1.84E+00	1.49E-01	9.90E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(2)	Total
0.0E+00	1.27E-01	6.77E-01	1.57E+00	3.65E+00	5.14E+00	5.13E+00
5.0E-02	1.27E-01	6.77E-01	1.57E+00	3.63E+00	5.12E+00	5.11E+00
1.0E-01	1.27E-01	6.75E-01	1.57E+00	3.55E+00	5.04E+00	5.04E+00
1.5E-01	1.27E-01	6.73E-01	1.57E+00	3.45E+00	4.93E+00	4.92E+00
2.0E-01	1.27E-01	6.71E-01	1.57E+00	3.31E+00	4.76E+00	4.76E+00
3.0E-01	1.27E-01	6.63E-01	1.56E+00	2.97E+00	4.33E+00	4.33E+00
4.0E-01	1.27E-01	6.51E-01	1.54E+00	2.61E+00	3.80E+00	3.80E+00
5.0E-01	1.26E-01	6.36E-01	1.53E+00	2.28E+00	3.26E+00	3.26E+00
6.0E-01	1.26E-01	6.20E-01	1.51E+00	2.00E+00	2.76E+00	2.77E+00
7.0E-01	1.26E-01	6.00E-01	1.49E+00	1.80E+00	2.37E+00	2.37E+00
8.0E-01	1.26E-01	5.80E-01	1.46E+00	1.66E+00	2.06E+00	2.06E+00
1.0E+00	1.25E-01	5.35E-01	1.40E+00	1.49E+00	1.68E+00	1.67E+00
1.2E+00	1.24E-01	4.86E-01	1.34E+00	1.39E+00	1.47E+00	1.47E+00
1.4E+00	1.23E-01	4.35E-01	1.26E+00	1.30E+00	1.34E+00	1.34E+00
1.6E+00	1.22E-01	3.86E-01	1.17E+00	1.22E+00	1.24E+00	1.24E+00
1.8E+00	1.20E-01	3.40E-01	1.08E+00	1.13E+00	1.14E+00	1.14E+00
2.0E+00	1.19E-01	3.00E-01	9.96E-01	1.03E+00	1.04E+00	1.04E+00
2.4E+00	1.15E-01	2.32E-01	8.27E-01	9.53E-01	9.61E-01	8.61E-01
3.0E+00	1.09E-01	1.65E-01	6.09E-01	6.20E-01	6.27E-01	6.28E-01
4.0E+00	9.76E-02	1.14E-01	3.62E-01	3.65E-01	3.69E-01	3.69E-01
5.0E+00	8.50E-02	9.40E-02	2.27E-01	2.27E-01	2.30E-01	2.30E-01
6.0E+00	7.26E-02	8.11E-02	1.52E-01	1.52E-01	1.54E-01	1.53E-01
7.0E+00	6.08E-02	6.90E-02	1.07E-01	1.08E-01	1.08E-01	1.08E-01
8.0E+00	5.04E-02	5.78E-02	7.89E-02	7.94E-02	7.98E-02	7.97E-02
1.0E+01	3.40E-02	3.90E-02	4.62E-02	4.66E-02	4.67E-02	4.60E-02
1.5E+01	1.12E-02	1.26E-02	1.33E-02	1.34E-02	1.34E-02	1.30E-02
2.0E+01	4.00E-03	4.42E-03	4.52E-03	4.55E-03	4.55E-03	4.50E-03
3.0E+01	6.40E-04	6.96E-04	7.02E-04	7.05E-04	7.06E-04	7.00E-04
4.0E+01	1.46E-04	1.58E-04	1.58E-04	1.59E-04	1.59E-04	1.60E-04
6.0E+01	1.56E-05	1.68E-05	1.68E-05	1.69E-05	1.69E-05	1.70E-05
1.0E+02	8.00E-07	8.58E-07	8.59E-07	8.62E-07	8.62E-07	8.70E-07
E[keV]:	1.84E+00	1.49E-01	9.90E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z				
0.0E+00	3.57E+00	4.46E+00	5.01E+00	5.14E+00	5.13E+00
5.0E-02	3.55E+00	4.44E+00	4.99E+00	5.12E+00	5.11E+00
1.0E-01	3.47E+00	4.36E+00	4.91E+00	5.04E+00	5.04E+00
1.5E-01	3.36E+00	4.25E+00	4.80E+00	4.93E+00	4.92E+00
2.0E-01	3.20E+00	4.09E+00	4.64E+00	4.76E+00	4.76E+00
3.0E-01	2.78E+00	3.67E+00	4.21E+00	4.33E+00	4.33E+00
4.0E-01	2.26E+00	3.15E+00	3.67E+00	3.80E+00	3.80E+00
5.0E-01	1.73E+00	2.62E+00	3.13E+00	3.26E+00	3.26E+00
6.0E-01	1.26E+00	2.14E+00	2.64E+00	2.76E+00	2.77E+00
7.0E-01	8.76E-01	1.77E+00	2.24E+00	2.37E+00	2.37E+00
8.0E-01	5.98E-01	1.48E+00	1.93E+00	2.06E+00	2.06E+00
1.0E+00	2.71E-01	1.14E+00	1.55E+00	1.68E+00	1.67E+00
1.2E+00	1.35E-01	9.87E-01	1.35E+00	1.47E+00	1.47E+00
1.4E+00	8.40E-02	9.06E-01	1.22E+00	1.34E+00	1.34E+00
1.6E+00	6.44E-02	8.50E-01	1.11E+00	1.24E+00	1.24E+00
1.8E+00	5.47E-02	7.99E-01	1.02E+00	1.14E+00	1.14E+00
2.0E+00	4.72E-02	7.43E-01	9.24E-01	1.04E+00	1.04E+00
2.4E+00	3.38E-02	6.29E-01	7.46E-01	8.61E-01	8.61E-01
3.0E+00	1.85E-02	4.63E-01	5.18E-01	6.27E-01	6.28E-01
4.0E+00	6.66E-03	2.55E-01	2.72E-01	3.69E-01	3.69E-01
5.0E+00	3.02E-03	1.36E-01	1.45E-01	2.30E-01	2.30E-01
6.0E+00	1.77E-03	7.26E-02	8.11E-02	1.54E-01	1.53E-01
7.0E+00	1.20E-03	3.94E-02	4.76E-02	1.08E-01	1.08E-01
8.0E+00	8.64E-04	2.20E-02	2.94E-02	7.98E-02	7.97E-02
1.0E+01	4.72E-04	7.67E-03	1.27E-02	4.67E-02	4.60E-02
1.5E+01	1.08E-04	7.68E-04	2.17E-03	1.34E-02	1.30E-02
2.0E+01	2.95E-05	1.32E-04	5.52E-04	4.55E-03	4.50E-03
3.0E+01	3.89E-06	9.53E-06	6.55E-05	7.06E-04	7.00E-04
4.0E+01	7.90E-07	1.45E-06	1.33E-05	1.59E-04	1.60E-04
6.0E+01	7.84E-08	1.08E-07	1.29E-06	1.69E-05	1.70E-05
1.0E+02	3.81E-09	4.34E-09	6.23E-08	8.62E-07	8.70E-07
E[keV]:	0.00E+00	9.90E-02	1.49E-01	1.84E+00	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100
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14Si
Σi Ji(Q)
Q

Z=15

Compton profiles for the single orbitals and binding energies

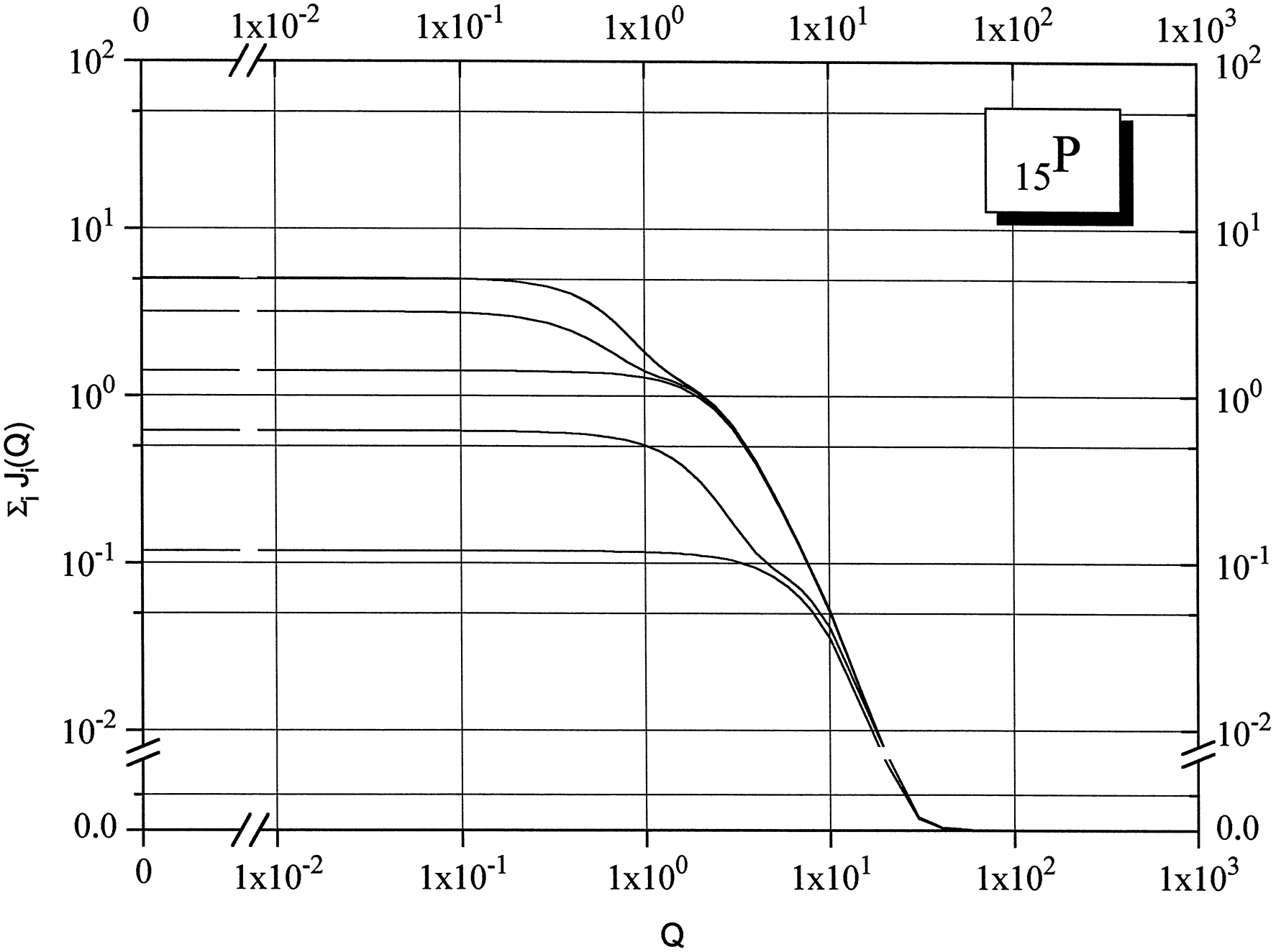
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(3)	Total
0.0E+00	5.92E-02	2.51E-01	1.34E-01	8.97E-01	6.31E-01	5.11E+00
5.0E-02	5.92E-02	2.50E-01	1.34E-01	8.90E-01	6.31E-01	5.10E+00
1.0E-01	5.91E-02	2.50E-01	1.34E-01	8.68E-01	6.31E-01	5.05E+00
1.5E-01	5.91E-02	2.49E-01	1.34E-01	8.33E-01	6.29E-01	4.97E+00
2.0E-01	5.91E-02	2.48E-01	1.34E-01	7.86E-01	6.24E-01	4.86E+00
3.0E-01	5.91E-02	2.45E-01	1.34E-01	6.69E-01	5.99E-01	4.55E+00
4.0E-01	5.90E-02	2.41E-01	1.34E-01	5.36E-01	5.51E-01	4.13E+00
5.0E-01	5.89E-02	2.35E-01	1.34E-01	4.07E-01	4.83E-01	3.66E+00
6.0E-01	5.88E-02	2.29E-01	1.34E-01	2.95E-01	4.04E-01	3.18E+00
7.0E-01	5.87E-02	2.22E-01	1.34E-01	2.05E-01	3.25E-01	2.75E+00
8.0E-01	5.86E-02	2.14E-01	1.33E-01	1.38E-01	2.53E-01	2.38E+00
1.0E+00	5.83E-02	1.96E-01	1.32E-01	6.11E-02	1.42E-01	1.85E+00
1.2E+00	5.79E-02	1.76E-01	1.30E-01	3.20E-02	7.41E-02	1.53E+00
1.4E+00	5.74E-02	1.56E-01	1.27E-01	2.43E-02	3.71E-02	1.35E+00
1.6E+00	5.69E-02	1.36E-01	1.23E-01	2.33E-02	1.85E-02	1.22E+00
1.8E+00	5.64E-02	1.16E-01	1.18E-01	2.32E-02	9.80E-03	1.13E+00
2.0E+00	5.57E-02	9.82E-02	1.12E-01	2.20E-02	6.09E-03	1.04E+00
2.4E+00	5.43E-02	6.74E-02	9.91E-02	1.70E-02	4.33E-03	8.85E-01
3.0E+00	5.18E-02	3.53E-02	7.81E-02	8.93E-03	4.20E-03	6.73E-01
4.0E+00	4.70E-02	1.11E-02	4.75E-02	2.21E-03	3.04E-03	4.15E-01
5.0E+00	4.16E-02	4.92E-03	2.72E-02	5.79E-04	1.78E-03	2.53E-01
6.0E+00	3.62E-02	4.09E-03	1.52E-02	3.30E-04	9.82E-04	1.75E-01
7.0E+00	3.09E-02	4.06E-03	8.56E-03	3.17E-04	5.44E-04	1.24E-01
8.0E+00	2.61E-02	3.82E-03	4.89E-03	3.06E-04	3.06E-04	9.07E-02
1.0E+01	1.80E-02	2.80E-03	1.70E-03	2.30E-04	1.00E-04	5.30E-02
1.5E+01	6.60E-03	8.90E-04	1.70E-04	7.20E-05	1.00E-05	1.60E-02
2.0E+01	2.40E-03	2.80E-04	2.70E-05	2.20E-05	1.60E-06	5.60E-03
3.0E+01	4.20E-04	3.90E-05	1.60E-06	3.00E-06	9.10E-08	9.20E-04
4.0E+01	9.80E-05	8.40E-06	1.90E-07	6.50E-07	1.10E-08	2.20E-04
6.0E+01	1.10E-05	8.50E-07	8.50E-09	6.50E-08	4.80E-10	2.30E-05
1.0E+02	5.70E-07	4.30E-08	1.50E-10	3.30E-09	8.70E-12	1.20E-06
E[keV]:	2.15E+00	1.89E-01	1.35E-01	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(3)	Total
0.0E+00	1.18E-01	6.20E-01	1.42E+00	3.22E+00	5.11E+00	5.11E+00
5.0E-02	1.18E-01	6.18E-01	1.42E+00	3.20E+00	5.10E+00	5.10E+00
1.0E-01	1.18E-01	6.18E-01	1.42E+00	3.16E+00	5.05E+00	5.05E+00
1.5E-01	1.18E-01	6.16E-01	1.42E+00	3.09E+00	4.97E+00	4.97E+00
2.0E-01	1.18E-01	6.14E-01	1.42E+00	2.99E+00	4.86E+00	4.86E+00
3.0E-01	1.18E-01	6.08E-01	1.41E+00	2.75E+00	4.55E+00	4.55E+00
4.0E-01	1.18E-01	6.00E-01	1.40E+00	2.48E+00	4.13E+00	4.13E+00
5.0E-01	1.18E-01	5.88E-01	1.39E+00	2.21E+00	3.65E+00	3.66E+00
6.0E-01	1.18E-01	5.76E-01	1.38E+00	1.97E+00	3.18E+00	3.18E+00
7.0E-01	1.17E-01	5.61E-01	1.37E+00	1.78E+00	2.75E+00	2.75E+00
8.0E-01	1.17E-01	5.45E-01	1.34E+00	1.62E+00	2.38E+00	2.38E+00
1.0E+00	1.17E-01	5.09E-01	1.30E+00	1.42E+00	1.85E+00	1.85E+00
1.2E+00	1.16E-01	4.68E-01	1.25E+00	1.31E+00	1.53E+00	1.53E+00
1.4E+00	1.15E-01	4.27E-01	1.19E+00	1.24E+00	1.35E+00	1.35E+00
1.6E+00	1.14E-01	3.86E-01	1.12E+00	1.17E+00	1.23E+00	1.22E+00
1.8E+00	1.13E-01	3.45E-01	1.05E+00	1.10E+00	1.13E+00	1.13E+00
2.0E+00	1.11E-01	3.08E-01	9.80E-01	1.02E+00	1.04E+00	1.04E+00
2.4E+00	1.09E-01	2.43E-01	8.38E-01	8.72E-01	8.85E-01	8.85E-01
3.0E+00	1.04E-01	1.74E-01	6.43E-01	6.61E-01	6.73E-01	6.73E-01
4.0E+00	9.40E-02	1.16E-01	4.01E-01	4.06E-01	4.15E-01	4.15E-01
5.0E+00	8.32E-02	9.30E-02	2.56E-01	2.57E-01	2.63E-01	2.53E-01
6.0E+00	7.24E-02	8.06E-02	1.72E-01	1.72E-01	1.75E-01	1.75E-01
7.0E+00	6.18E-02	6.99E-02	1.21E-01	1.22E-01	1.24E-01	1.24E-01
8.0E+00	5.22E-02	5.98E-02	8.92E-02	8.98E-02	9.07E-02	9.07E-02
1.0E+01	3.60E-02	4.16E-02	5.18E-02	5.23E-02	5.26E-02	5.30E-02
1.5E+01	1.32E-02	1.50E-02	1.60E-02	1.61E-02	1.62E-02	1.60E-02
2.0E+01	4.80E-03	5.36E-03	5.52E-03	5.57E-03	5.57E-03	5.60E-03
3.0E+01	8.40E-04	9.18E-04	9.28E-04	9.34E-04	9.34E-04	9.20E-04
4.0E+01	1.96E-04	2.13E-04	2.14E-04	2.15E-04	2.15E-04	2.20E-04
6.0E+01	2.20E-05	2.37E-05	2.38E-05	2.39E-05	2.39E-05	2.30E-05
1.0E+02	1.14E-06	1.23E-06	1.23E-06	1.23E-06	1.23E-06	1.20E-06
E[keV]:	2.15E+00	1.89E-01	1.35E-01	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z					
0.0E+00	3.69E+00	4.49E+00	4.99E+00	5.11E+00	5.11E+00
5.0E-02	3.67E+00	4.48E+00	4.98E+00	5.10E+00	5.10E+00
1.0E-01	3.63E+00	4.42E+00	4.93E+00	5.05E+00	5.05E+00
1.5E-01	3.55E+00	4.36E+00	4.86E+00	4.97E+00	4.97E+00
2.0E-01	3.44E+00	4.25E+00	4.74E+00	4.86E+00	4.86E+00
3.0E-01	3.14E+00	3.94E+00	4.43E+00	4.55E+00	4.55E+00
4.0E-01	2.73E+00	3.53E+00	4.01E+00	4.13E+00	4.13E+00
5.0E-01	2.26E+00	3.07E+00	3.54E+00	3.65E+00	3.66E+00
6.0E-01	1.80E+00	2.61E+00	3.06E+00	3.18E+00	3.18E+00
7.0E-01	1.39E+00	2.19E+00	2.63E+00	2.75E+00	2.75E+00
8.0E-01	1.04E+00	1.83E+00	2.26E+00	2.38E+00	2.38E+00
1.0E+00	5.48E-01	1.34E+00	1.73E+00	1.85E+00	1.85E+00
1.2E+00	2.86E-01	1.07E+00	1.42E+00	1.53E+00	1.53E+00
1.4E+00	1.60E-01	9.22E-01	1.23E+00	1.35E+00	1.35E+00
1.6E+00	1.02E-01	8.40E-01	1.11E+00	1.23E+00	1.22E+00
1.8E+00	7.58E-02	7.84E-01	1.02E+00	1.13E+00	1.13E+00
2.0E+00	6.23E-02	7.34E-01	9.31E-01	1.04E+00	1.04E+00
2.4E+00	4.70E-02	6.42E-01	7.76E-01	8.85E-01	8.85E-01
3.0E+00	3.05E-02	4.99E-01	5.70E-01	6.73E-01	6.73E-01
4.0E+00	1.35E-02	2.99E-01	3.21E-01	4.15E-01	4.15E-01
5.0E+00	6.50E-03	1.70E-01	1.80E-01	2.63E-01	2.53E-01
6.0E+00	3.61E-03	9.48E-02	1.03E-01	1.75E-01	1.75E-01
7.0E+00	2.27E-03	5.36E-02	6.17E-02	1.24E-01	1.24E-01
8.0E+00	1.53E-03	3.09E-02	3.85E-02	9.07E-02	9.07E-02
1.0E+01	7.60E-04	1.10E-02	1.66E-02	5.26E-02	5.30E-02
1.5E+01	1.74E-04	1.19E-03	2.97E-03	1.62E-02	1.60E-02
2.0E+01	4.88E-05	2.11E-04	7.71E-04	5.57E-03	5.60E-03
3.0E+01	6.27E-06	1.59E-05	9.39E-05	9.34E-04	9.20E-04
4.0E+01	1.33E-06	2.47E-06	1.93E-05	2.15E-04	2.20E-04
6.0E+01	1.31E-07	1.82E-07	1.88E-06	2.39E-05	2.30E-05
1.0E+02	6.63E-09	7.53E-09	9.35E-08	1.23E-06	1.20E-06
E[keV]:	0.00E+00	1.35E-01	1.89E-01	2.15E+00	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Z=16

Compton profiles for the single orbitals and binding energies

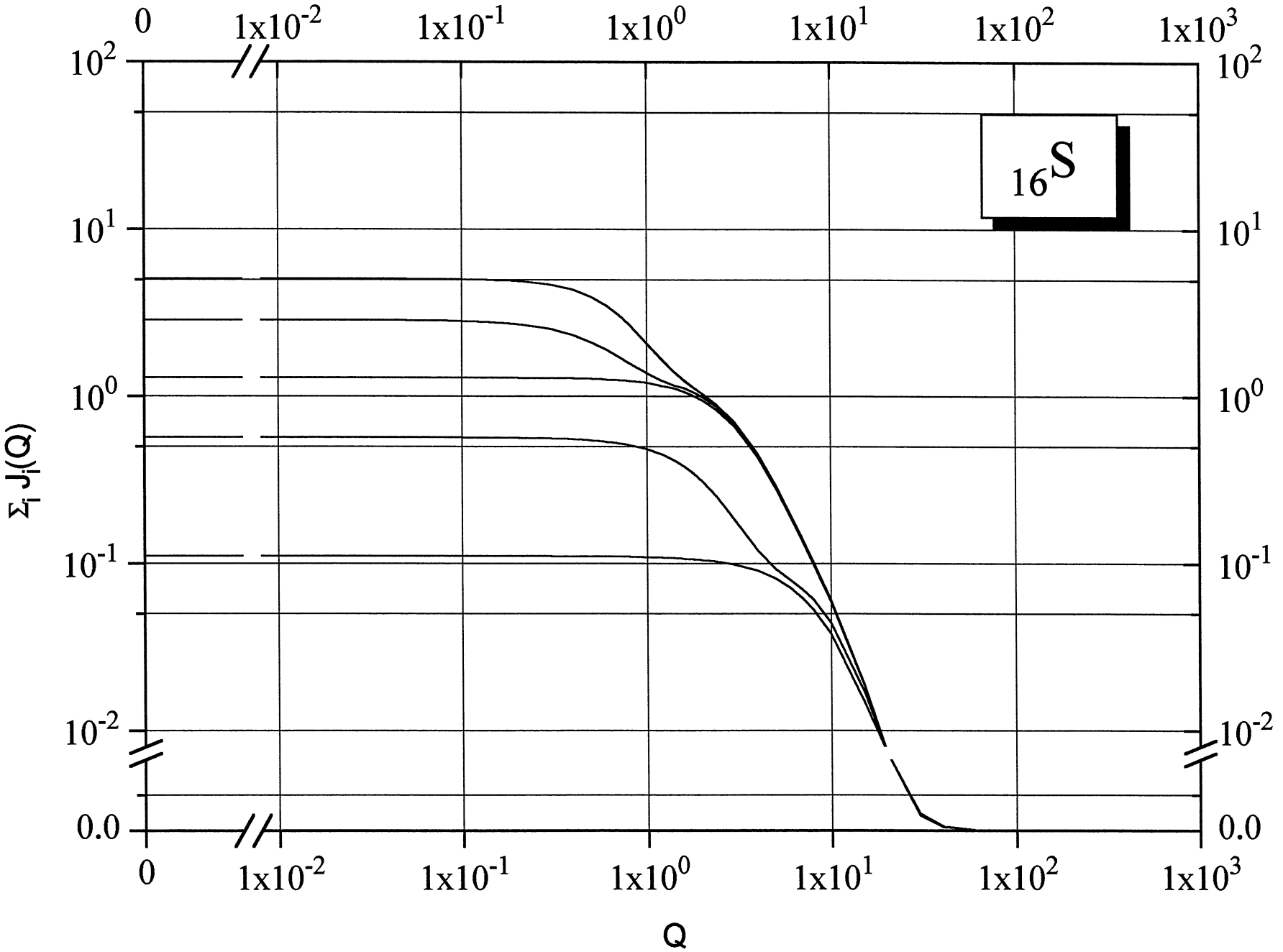
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(4)	Total
0.0E+00	5.53E-02	2.30E-01	1.22E-01	7.94E-01	5.51E-01	5.10E+00
5.0E-02	5.53E-02	2.30E-01	1.22E-01	7.86E-01	5.51E-01	5.08E+00
1.0E-01	5.53E-02	2.30E-01	1.22E-01	7.73E-01	5.50E-01	5.05E+00
1.5E-01	5.53E-02	2.29E-01	1.22E-01	7.48E-01	5.49E-01	5.00E+00
2.0E-01	5.53E-02	2.28E-01	1.22E-01	7.15E-01	5.47E-01	4.92E+00
3.0E-01	5.53E-02	2.26E-01	1.22E-01	6.28E-01	5.33E-01	4.68E+00
4.0E-01	5.52E-02	2.23E-01	1.22E-01	5.26E-01	5.04E-01	4.36E+00
5.0E-01	5.52E-02	2.18E-01	1.22E-01	4.21E-01	4.59E-01	3.96E+00
6.0E-01	5.51E-02	2.13E-01	1.22E-01	3.24E-01	4.04E-01	3.53E+00
7.0E-01	5.50E-02	2.08E-01	1.22E-01	2.40E-01	3.43E-01	3.11E+00
8.0E-01	5.49E-02	2.01E-01	1.22E-01	1.73E-01	2.83E-01	2.72E+00
1.0E+00	5.46E-02	1.87E-01	1.21E-01	8.47E-02	1.79E-01	2.09E+00
1.2E+00	5.43E-02	1.71E-01	1.19E-01	4.29E-02	1.06E-01	1.68E+00
1.4E+00	5.39E-02	1.54E-01	1.17E-01	2.72E-02	5.96E-02	1.41E+00
1.6E+00	5.35E-02	1.37E-01	1.15E-01	2.31E-02	3.26E-02	1.24E+00
1.8E+00	5.30E-02	1.20E-01	1.11E-01	2.27E-02	1.79E-02	1.13E+00
2.0E+00	5.25E-02	1.03E-01	1.07E-01	2.25E-02	1.03E-02	1.04E+00
2.4E+00	5.13E-02	7.46E-02	9.71E-02	1.96E-02	5.08E-03	8.94E-01
3.0E+00	4.93E-02	4.23E-02	8.00E-02	1.22E-02	4.36E-03	7.05E-01
4.0E+00	4.52E-02	1.46E-02	5.24E-02	3.71E-03	3.72E-03	4.56E-01
5.0E+00	4.06E-02	5.82E-03	3.19E-02	9.83E-04	2.43E-03	2.96E-01
6.0E+00	3.58E-02	4.04E-03	1.88E-02	4.07E-04	1.44E-03	1.99E-01
7.0E+00	3.11E-02	3.92E-03	1.10E-02	3.39E-04	8.29E-04	1.40E-01
8.0E+00	2.67E-02	3.83E-03	6.50E-03	3.36E-04	4.82E-04	1.03E-01
1.0E+01	1.90E-02	3.10E-03	2.40E-03	2.80E-04	1.70E-04	6.00E-02
1.5E+01	7.50E-03	1.10E-03	2.60E-04	9.90E-05	1.80E-05	1.90E-02
2.0E+01	2.90E-03	3.60E-04	4.20E-05	3.20E-05	2.90E-06	6.90E-03
3.0E+01	5.30E-04	5.30E-05	2.60E-06	4.60E-06	1.70E-07	1.20E-03
4.0E+01	1.30E-04	1.20E-05	3.10E-07	1.00E-06	2.00E-08	2.90E-04
6.0E+01	1.50E-05	1.20E-06	1.40E-08	1.00E-07	9.30E-10	3.20E-05
1.0E+02	7.80E-07	6.10E-08	2.60E-10	5.20E-09	1.70E-11	1.70E-06
E[keV]:	2.47E+00	2.29E-01	1.64E-01	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(4)	Total
0.0E+00	1.11E-01	5.71E-01	1.30E+00	2.89E+00	5.09E+00	5.10E+00
5.0E-02	1.11E-01	5.71E-01	1.30E+00	2.88E+00	5.08E+00	5.08E+00
1.0E-01	1.11E-01	5.71E-01	1.30E+00	2.85E+00	5.05E+00	5.05E+00
1.5E-01	1.11E-01	5.69E-01	1.30E+00	2.80E+00	4.99E+00	5.00E+00
2.0E-01	1.11E-01	5.67E-01	1.30E+00	2.73E+00	4.92E+00	4.92E+00
3.0E-01	1.11E-01	5.63E-01	1.29E+00	2.55E+00	4.68E+00	4.68E+00
4.0E-01	1.10E-01	5.56E-01	1.29E+00	2.34E+00	4.36E+00	4.36E+00
5.0E-01	1.10E-01	5.46E-01	1.28E+00	2.12E+00	3.96E+00	3.96E+00
6.0E-01	1.10E-01	5.36E-01	1.27E+00	1.92E+00	3.53E+00	3.53E+00
7.0E-01	1.10E-01	5.26E-01	1.26E+00	1.74E+00	3.11E+00	3.11E+00
8.0E-01	1.10E-01	5.12E-01	1.24E+00	1.59E+00	2.72E+00	2.72E+00
1.0E+00	1.09E-01	4.83E-01	1.21E+00	1.38E+00	2.09E+00	2.09E+00
1.2E+00	1.09E-01	4.51E-01	1.16E+00	1.25E+00	1.67E+00	1.68E+00
1.4E+00	1.08E-01	4.16E-01	1.12E+00	1.17E+00	1.41E+00	1.41E+00
1.6E+00	1.07E-01	3.81E-01	1.07E+00	1.12E+00	1.25E+00	1.24E+00
1.8E+00	1.06E-01	3.46E-01	1.01E+00	1.06E+00	1.13E+00	1.13E+00
2.0E+00	1.05E-01	3.11E-01	9.53E-01	9.98E-01	1.04E+00	1.04E+00
2.4E+00	1.03E-01	2.52E-01	8.34E-01	8.74E-01	8.94E-01	8.94E-01
3.0E+00	9.86E-02	1.83E-01	6.63E-01	6.88E-01	7.05E-01	7.05E-01
4.0E+00	9.04E-02	1.20E-01	4.34E-01	4.41E-01	4.56E-01	4.56E-01
5.0E+00	8.12E-02	9.28E-02	2.84E-01	2.86E-01	2.96E-01	2.96E-01
6.0E+00	7.16E-02	7.97E-02	1.92E-01	1.93E-01	1.99E-01	1.99E-01
7.0E+00	6.22E-02	7.00E-02	1.36E-01	1.37E-01	1.40E-01	1.40E-01
8.0E+00	5.34E-02	6.11E-02	1.00E-01	1.01E-01	1.03E-01	1.03E-01
1.0E+01	3.80E-02	4.42E-02	5.86E-02	5.92E-02	5.98E-02	6.00E-02
1.5E+01	1.50E-02	1.72E-02	1.88E-02	1.90E-02	1.90E-02	1.90E-02
2.0E+01	5.80E-03	6.52E-03	6.77E-03	6.84E-03	6.85E-03	6.90E-03
3.0E+01	1.06E-03	1.17E-03	1.18E-03	1.19E-03	1.19E-03	1.20E-03
4.0E+01	2.60E-04	2.84E-04	2.86E-04	2.88E-04	2.88E-04	2.90E-04
6.0E+01	3.00E-05	3.24E-05	3.25E-05	3.27E-05	3.27E-05	3.20E-05
1.0E+02	1.56E-06	1.68E-06	1.68E-06	1.69E-06	1.69E-06	1.70E-06
E[keV]:	2.47E+00	2.29E-01	1.64E-01	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z					
0.0E+00	3.79E+00	4.52E+00	4.98E+00	5.09E+00	5.10E+00
5.0E-02	3.78E+00	4.51E+00	4.97E+00	5.08E+00	5.08E+00
1.0E-01	3.75E+00	4.48E+00	4.94E+00	5.05E+00	5.05E+00
1.5E-01	3.69E+00	4.42E+00	4.88E+00	4.99E+00	5.00E+00
2.0E-01	3.62E+00	4.35E+00	4.81E+00	4.92E+00	4.92E+00
3.0E-01	3.39E+00	4.12E+00	4.57E+00	4.68E+00	4.68E+00
4.0E-01	3.07E+00	3.80E+00	4.25E+00	4.36E+00	4.36E+00
5.0E-01	2.68E+00	3.41E+00	3.85E+00	3.96E+00	3.96E+00
6.0E-01	2.26E+00	3.00E+00	3.42E+00	3.53E+00	3.53E+00
7.0E-01	1.85E+00	2.58E+00	3.00E+00	3.11E+00	3.11E+00
8.0E-01	1.48E+00	2.21E+00	2.61E+00	2.72E+00	2.72E+00
1.0E+00	8.85E-01	1.61E+00	1.99E+00	2.09E+00	2.09E+00
1.2E+00	5.10E-01	1.22E+00	1.57E+00	1.67E+00	1.68E+00
1.4E+00	2.93E-01	9.95E-01	1.30E+00	1.41E+00	1.41E+00
1.6E+00	1.77E-01	8.67E-01	1.14E+00	1.25E+00	1.24E+00
1.8E+00	1.17E-01	7.83E-01	1.02E+00	1.13E+00	1.13E+00
2.0E+00	8.62E-02	7.28E-01	9.34E-01	1.04E+00	1.04E+00
2.4E+00	5.95E-02	6.42E-01	7.91E-01	8.94E-01	8.94E-01
3.0E+00	4.18E-02	5.22E-01	6.06E-01	7.05E-01	7.05E-01
4.0E+00	2.23E-02	3.37E-01	3.66E-01	4.56E-01	4.56E-01
5.0E+00	1.17E-02	2.03E-01	2.15E-01	2.96E-01	2.96E-01
6.0E+00	6.57E-03	1.19E-01	1.27E-01	1.99E-01	1.99E-01
7.0E+00	3.99E-03	7.00E-02	7.78E-02	1.40E-01	1.40E-01
8.0E+00	2.60E-03	4.16E-02	4.93E-02	1.03E-01	1.03E-01
1.0E+01	1.24E-03	1.56E-02	2.18E-02	5.98E-02	6.00E-02
1.5E+01	2.70E-04	1.83E-03	4.03E-03	1.90E-02	1.90E-02
2.0E+01	7.56E-05	3.29E-04	1.05E-03	6.85E-03	6.90E-03
3.0E+01	9.88E-06	2.55E-05	1.31E-04	1.19E-03	1.20E-03
4.0E+01	2.08E-06	3.94E-06	2.79E-05	2.88E-04	2.90E-04
6.0E+01	2.04E-07	2.88E-07	2.69E-06	3.27E-05	3.20E-05
1.0E+02	1.05E-08	1.20E-08	1.34E-07	1.69E-06	1.70E-06
E[keV]:	0.00E+00	1.64E-01	2.29E-01	2.47E+00	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1x10^-1
1x10^0
1x10^1
1x10^2
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10^2
10^1
10^0
10^-1
10^-2
0.0
16S
Σ_i J_i(Q)
Q

Z=17

Compton profiles for the single orbitals and binding energies

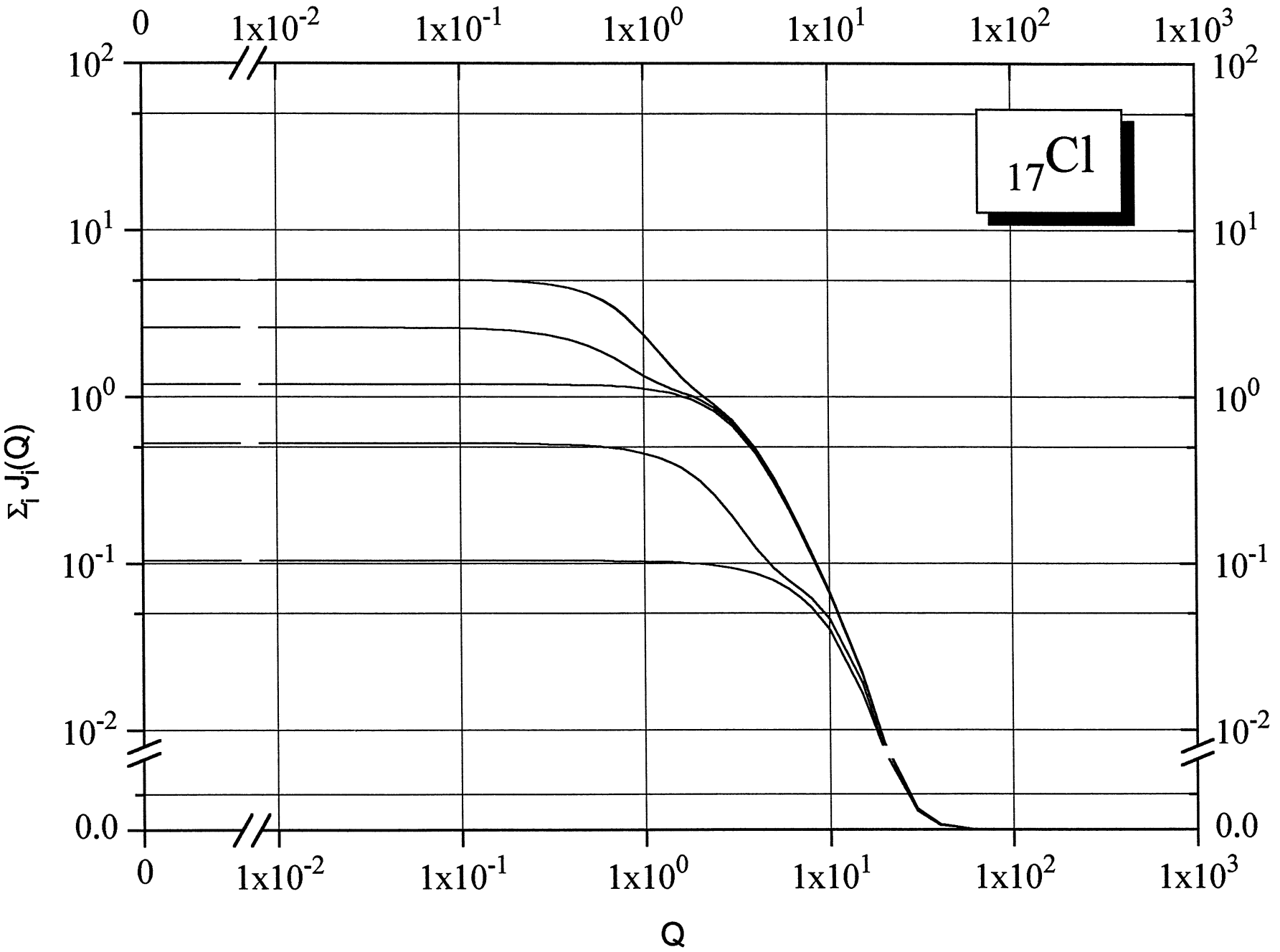
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(5)	Total
0.0E+00	5.20E-02	2.13E-01	1.12E-01	7.13E-01	4.90E-01	5.08E+00
5.0E-02	5.20E-02	2.13E-01	1.12E-01	7.09E-01	4.90E-01	5.07E+00
1.0E-01	5.20E-02	2.13E-01	1.12E-01	6.98E-01	4.89E-01	5.05E+00
1.5E-01	5.20E-02	2.12E-01	1.12E-01	6.80E-01	4.89E-01	5.01E+00
2.0E-01	5.20E-02	2.12E-01	1.12E-01	6.55E-01	4.87E-01	4.95E+00
3.0E-01	5.19E-02	2.10E-01	1.12E-01	5.89E-01	4.79E-01	4.77E+00
4.0E-01	5.19E-02	2.07E-01	1.12E-01	5.09E-01	4.60E-01	4.51E+00
5.0E-01	5.18E-02	2.04E-01	1.12E-01	4.23E-01	4.31E-01	4.19E+00
6.0E-01	5.18E-02	2.00E-01	1.12E-01	3.40E-01	3.92E-01	3.81E+00
7.0E-01	5.17E-02	1.95E-01	1.12E-01	2.65E-01	3.46E-01	3.42E+00
8.0E-01	5.16E-02	1.90E-01	1.12E-01	2.01E-01	2.98E-01	3.04E+00
1.0E+00	5.14E-02	1.78E-01	1.11E-01	1.08E-01	2.06E-01	2.37E+00
1.2E+00	5.11E-02	1.65E-01	1.10E-01	5.69E-02	1.34E-01	1.88E+00
1.4E+00	5.08E-02	1.50E-01	1.09E-01	3.31E-02	8.26E-02	1.54E+00
1.6E+00	5.05E-02	1.36E-01	1.07E-01	2.43E-02	4.93E-02	1.31E+00
1.8E+00	5.01E-02	1.21E-01	1.05E-01	2.21E-02	2.88E-02	1.16E+00
2.0E+00	4.97E-02	1.07E-01	1.01E-01	2.19E-02	1.69E-02	1.05E+00
2.4E+00	4.87E-02	8.02E-02	9.40E-02	2.08E-02	6.95E-03	8.98E-01
3.0E+00	4.69E-02	4.87E-02	8.03E-02	1.50E-02	4.40E-03	7.25E-01
4.0E+00	4.35E-02	1.85E-02	5.60E-02	5.56E-03	4.12E-03	4.92E-01
5.0E+00	3.95E-02	7.20E-03	3.61E-02	1.63E-03	3.02E-03	3.29E-01
6.0E+00	3.53E-02	4.20E-03	2.24E-02	5.60E-04	1.93E-03	2.24E-01
7.0E+00	3.11E-02	3.77E-03	1.36E-02	3.66E-04	1.17E-03	1.58E-01
8.0E+00	2.71E-02	3.74E-03	8.31E-03	3.52E-04	7.02E-04	1.16E-01
1.0E+01	2.00E-02	3.20E-03	3.20E-03	3.20E-04	2.60E-04	6.70E-02
1.5E+01	8.40E-03	1.30E-03	3.80E-04	1.30E-04	3.00E-05	2.20E-02
2.0E+01	3.40E-03	4.50E-04	6.40E-05	4.40E-05	4.90E-06	8.20E-03
3.0E+01	6.60E-04	7.00E-05	4.00E-06	6.60E-06	3.00E-07	1.50E-03
4.0E+01	1.70E-04	1.60E-05	4.90E-07	1.50E-06	3.60E-08	3.70E-04
6.0E+01	1.90E-05	1.70E-06	2.30E-08	1.50E-07	1.60E-09	4.20E-05
1.0E+02	1.00E-06	8.50E-08	4.20E-10	7.80E-09	3.00E-11	2.30E-06
E[keV]:	2.82E+00	2.70E-01	2.01E-01	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(5)	Total
0.0E+00	1.04E-01	5.30E-01	1.20E+00	2.63E+00	5.08E+00	5.08E+00
5.0E-02	1.04E-01	5.30E-01	1.20E+00	2.62E+00	5.07E+00	5.07E+00
1.0E-01	1.04E-01	5.30E-01	1.20E+00	2.60E+00	5.04E+00	5.05E+00
1.5E-01	1.04E-01	5.28E-01	1.20E+00	2.56E+00	5.01E+00	5.01E+00
2.0E-01	1.04E-01	5.28E-01	1.20E+00	2.51E+00	4.95E+00	4.95E+00
3.0E-01	1.04E-01	5.24E-01	1.20E+00	2.37E+00	4.77E+00	4.77E+00
4.0E-01	1.04E-01	5.18E-01	1.19E+00	2.21E+00	4.51E+00	4.51E+00
5.0E-01	1.04E-01	5.12E-01	1.18E+00	2.03E+00	4.18E+00	4.19E+00
6.0E-01	1.04E-01	5.04E-01	1.18E+00	1.86E+00	3.82E+00	3.81E+00
7.0E-01	1.03E-01	4.93E-01	1.17E+00	1.70E+00	3.43E+00	3.42E+00
8.0E-01	1.03E-01	4.83E-01	1.16E+00	1.56E+00	3.05E+00	3.04E+00
1.0E+00	1.03E-01	4.59E-01	1.12E+00	1.34E+00	2.37E+00	2.37E+00
1.2E+00	1.02E-01	4.32E-01	1.09E+00	1.21E+00	1.88E+00	1.88E+00
1.4E+00	1.02E-01	4.02E-01	1.06E+00	1.12E+00	1.53E+00	1.54E+00
1.6E+00	1.01E-01	3.73E-01	1.01E+00	1.06E+00	1.31E+00	1.31E+00
1.8E+00	1.00E-01	3.42E-01	9.72E-01	1.02E+00	1.16E+00	1.16E+00
2.0E+00	9.94E-02	3.13E-01	9.19E-01	9.63E-01	1.05E+00	1.05E+00
2.4E+00	9.74E-02	2.58E-01	8.22E-01	8.63E-01	8.98E-01	8.98E-01
3.0E+00	9.38E-02	1.91E-01	6.73E-01	7.03E-01	7.25E-01	7.25E-01
4.0E+00	8.70E-02	1.24E-01	4.60E-01	4.71E-01	4.92E-01	4.92E-01
5.0E+00	7.90E-02	9.34E-02	3.10E-01	3.13E-01	3.28E-01	3.29E-01
6.0E+00	7.06E-02	7.90E-02	2.13E-01	2.15E-01	2.24E-01	2.24E-01
7.0E+00	6.22E-02	6.97E-02	1.51E-01	1.52E-01	1.58E-01	1.58E-01
8.0E+00	5.42E-02	6.17E-02	1.12E-01	1.12E-01	1.16E-01	1.16E-01
1.0E+01	4.00E-02	4.64E-02	6.56E-02	6.62E-02	6.75E-02	6.70E-02
1.5E+01	1.68E-02	1.94E-02	2.17E-02	2.19E-02	2.21E-02	2.20E-02
2.0E+01	6.80E-03	7.70E-03	8.08E-03	8.17E-03	8.20E-03	8.20E-03
3.0E+01	1.32E-03	1.46E-03	1.48E-03	1.50E-03	1.50E-03	1.50E-03
4.0E+01	3.40E-04	3.72E-04	3.75E-04	3.78E-04	3.78E-04	3.70E-04
6.0E+01	3.80E-05	4.14E-05	4.15E-05	4.18E-05	4.18E-05	4.20E-05
1.0E+02	2.00E-06	2.17E-06	2.17E-06	2.19E-06	2.19E-06	2.30E-06
E[keV]:	2.82E+00	2.70E-01	2.01E-01	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z					
0.0E+00	3.88E+00	4.55E+00	4.97E+00	5.08E+00	5.08E+00
5.0E-02	3.87E+00	4.54E+00	4.97E+00	5.07E+00	5.07E+00
1.0E-01	3.84E+00	4.51E+00	4.94E+00	5.04E+00	5.05E+00
1.5E-01	3.81E+00	4.48E+00	4.90E+00	5.00E+00	5.01E+00
2.0E-01	3.75E+00	4.42E+00	4.84E+00	4.94E+00	4.95E+00
3.0E-01	3.57E+00	4.25E+00	4.67E+00	4.77E+00	4.77E+00
4.0E-01	3.32E+00	3.99E+00	4.40E+00	4.51E+00	4.51E+00
5.0E-01	3.00E+00	3.67E+00	4.08E+00	4.18E+00	4.19E+00
6.0E-01	2.64E+00	3.31E+00	3.71E+00	3.82E+00	3.81E+00
7.0E-01	2.26E+00	2.93E+00	3.32E+00	3.43E+00	3.42E+00
8.0E-01	1.89E+00	2.56E+00	2.94E+00	3.05E+00	3.04E+00
1.0E+00	1.25E+00	1.91E+00	2.27E+00	2.37E+00	2.37E+00
1.2E+00	7.84E-01	1.44E+00	1.77E+00	1.88E+00	1.88E+00
1.4E+00	4.79E-01	1.13E+00	1.43E+00	1.53E+00	1.54E+00
1.6E+00	2.95E-01	9.37E-01	1.21E+00	1.31E+00	1.31E+00
1.8E+00	1.88E-01	8.18E-01	1.06E+00	1.16E+00	1.16E+00
2.0E+00	1.28E-01	7.34E-01	9.48E-01	1.05E+00	1.05E+00
2.4E+00	7.64E-02	6.40E-01	8.01E-01	8.98E-01	8.98E-01
3.0E+00	5.20E-02	5.34E-01	6.31E-01	7.25E-01	7.25E-01
4.0E+00	3.17E-02	3.68E-01	4.05E-01	4.92E-01	4.92E-01
5.0E+00	1.84E-02	2.35E-01	2.49E-01	3.28E-01	3.29E-01
6.0E+00	1.08E-02	1.45E-01	1.54E-01	2.24E-01	2.24E-01
7.0E+00	6.58E-03	8.82E-02	9.57E-02	1.58E-01	1.58E-01
8.0E+00	4.21E-03	5.41E-02	6.16E-02	1.16E-01	1.16E-01
1.0E+01	1.94E-03	2.11E-02	2.75E-02	6.75E-02	6.70E-02
1.5E+01	4.10E-04	2.69E-03	5.29E-03	2.21E-02	2.20E-02
2.0E+01	1.13E-04	4.96E-04	1.40E-03	8.20E-03	8.20E-03
3.0E+01	1.47E-05	3.87E-05	1.79E-04	1.50E-03	1.50E-03
4.0E+01	3.18E-06	6.12E-06	3.81E-05	3.78E-04	3.70E-04
6.0E+01	3.08E-07	4.46E-07	3.85E-06	4.18E-05	4.20E-05
1.0E+02	1.58E-08	1.83E-08	1.88E-07	2.19E-06	2.30E-06
E[keV]:	0.00E+00	2.01E-01	2.70E-01	2.82E+00	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10-1
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17Cl
Σi Ji(Q)
Q

Z=18

Compton profiles for the single orbitals and binding energies

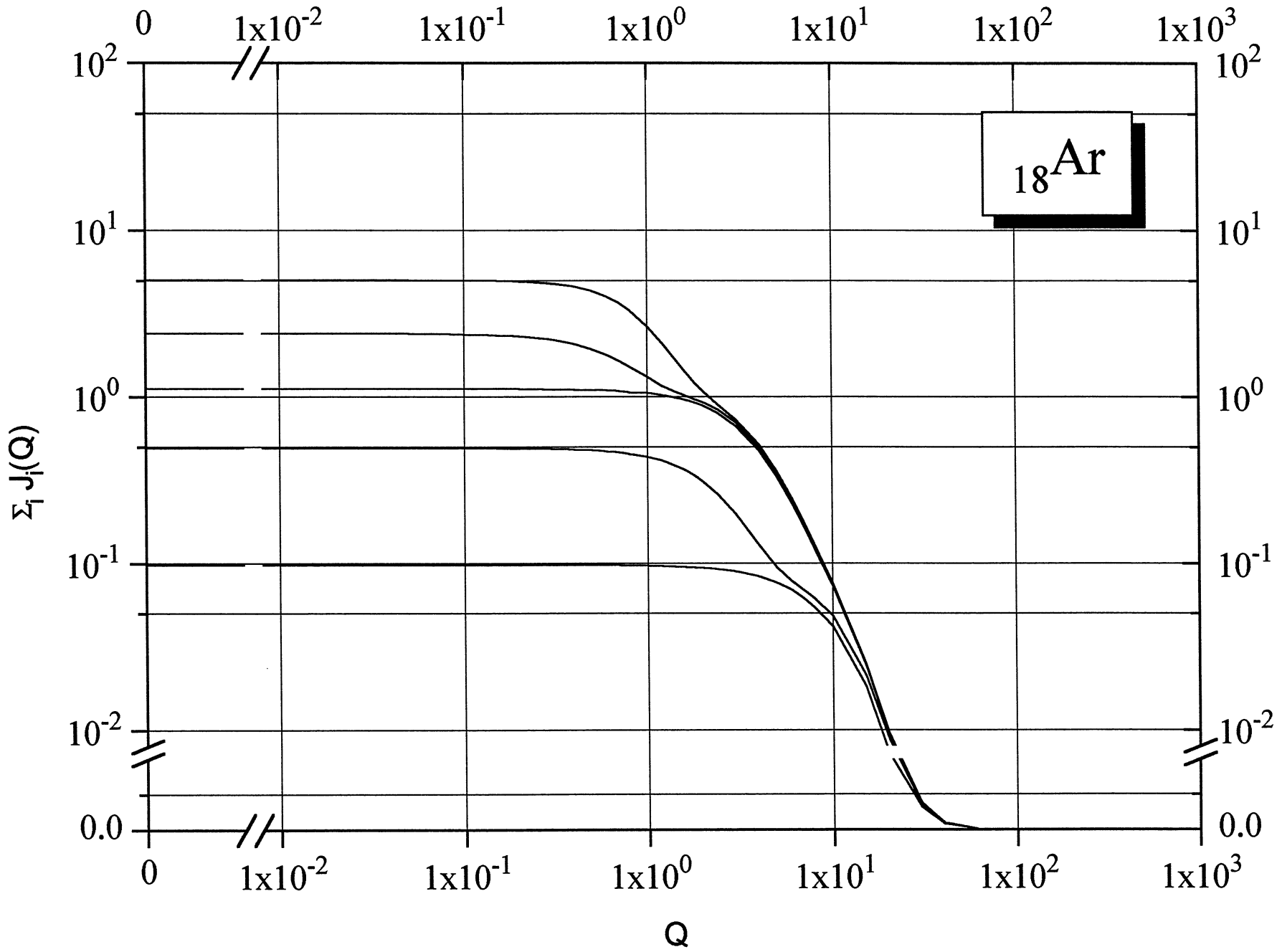
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	Total
0.0E+00	4.90E-02	1.98E-01	1.04E-01	6.49E-01	4.42E-01	5.06E+00
5.0E-02	4.90E-02	1.98E-01	1.04E-01	6.46E-01	4.42E-01	5.06E+00
1.0E-01	4.90E-02	1.98E-01	1.04E-01	6.37E-01	4.41E-01	5.04E+00
1.5E-01	4.90E-02	1.98E-01	1.04E-01	6.23E-01	4.41E-01	5.01E+00
2.0E-01	4.90E-02	1.97E-01	1.04E-01	6.04E-01	4.40E-01	4.96E+00
3.0E-01	4.90E-02	1.96E-01	1.04E-01	5.52E-01	4.35E-01	4.82E+00
4.0E-01	4.89E-02	1.93E-01	1.04E-01	4.89E-01	4.23E-01	4.62E+00
5.0E-01	4.89E-02	1.91E-01	1.04E-01	4.19E-01	4.02E-01	4.35E+00
6.0E-01	4.88E-02	1.87E-01	1.04E-01	3.48E-01	3.74E-01	4.04E+00
7.0E-01	4.88E-02	1.84E-01	1.04E-01	2.81E-01	3.40E-01	3.69E+00
8.0E-01	4.87E-02	1.79E-01	1.03E-01	2.22E-01	3.02E-01	3.32E+00
1.0E+00	4.85E-02	1.70E-01	1.03E-01	1.30E-01	2.24E-01	2.66E+00
1.2E+00	4.83E-02	1.59E-01	1.02E-01	7.23E-02	1.56E-01	2.11E+00
1.4E+00	4.80E-02	1.46E-01	1.01E-01	4.15E-02	1.04E-01	1.70E+00
1.6E+00	4.78E-02	1.34E-01	1.00E-01	2.75E-02	6.65E-02	1.42E+00
1.8E+00	4.74E-02	1.21E-01	9.83E-02	2.24E-02	4.16E-02	1.22E+00
2.0E+00	4.71E-02	1.08E-01	9.61E-02	2.11E-02	2.57E-02	1.08E+00
2.4E+00	4.62E-02	8.43E-02	9.04E-02	2.08E-02	1.02E-02	9.07E-01
3.0E+00	4.47E-02	5.42E-02	7.94E-02	1.70E-02	4.65E-03	7.36E-01
4.0E+00	4.18E-02	2.26E-02	5.86E-02	7.58E-03	4.20E-03	5.20E-01
5.0E+00	3.83E-02	9.02E-03	3.98E-02	2.53E-03	3.45E-03	3.59E-01
6.0E+00	3.47E-02	4.62E-03	2.58E-02	8.31E-04	2.38E-03	2.49E-01
7.0E+00	3.09E-02	3.68E-03	1.63E-02	4.20E-04	1.52E-03	1.77E-01
8.0E+00	2.72E-02	3.61E-03	1.03E-02	3.62E-04	9.49E-04	1.30E-01
1.0E+01	2.10E-02	3.30E-03	4.10E-03	3.50E-04	3.70E-04	7.50E-02
1.5E+01	9.20E-03	1.50E-03	5.30E-04	1.60E-04	4.50E-05	2.50E-02
2.0E+01	3.90E-03	5.60E-04	9.30E-05	5.80E-05	7.70E-06	9.70E-03
3.0E+01	8.10E-04	9.10E-05	6.00E-06	9.20E-06	4.80E-07	1.90E-03
4.0E+01	2.10E-04	2.10E-05	7.50E-07	2.10E-06	6.00E-08	4.70E-04
6.0E+01	2.50E-05	2.20E-06	3.50E-08	2.20E-07	2.80E-09	5.50E-05
1.0E+02	1.40E-06	1.20E-07	6.50E-10	1.10E-08	5.10E-11	3.00E-06
E[keV]:	3.21E+00	3.26E-01	2.49E-01	2.92E-02	1.58E-02	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	Total
0.0E+00	9.80E-02	4.94E-01	1.12E+00	2.42E+00	5.07E+00	5.06E+00
5.0E-02	9.80E-02	4.94E-01	1.12E+00	2.41E+00	5.06E+00	5.06E+00
1.0E-01	9.80E-02	4.94E-01	1.12E+00	2.39E+00	5.04E+00	5.04E+00
1.5E-01	9.80E-02	4.94E-01	1.12E+00	2.36E+00	5.01E+00	5.01E+00
2.0E-01	9.80E-02	4.92E-01	1.12E+00	2.32E+00	4.96E+00	4.96E+00
3.0E-01	9.80E-02	4.90E-01	1.11E+00	2.22E+00	4.83E+00	4.82E+00
4.0E-01	9.78E-02	4.84E-01	1.11E+00	2.09E+00	4.62E+00	4.62E+00
5.0E-01	9.78E-02	4.80E-01	1.10E+00	1.94E+00	4.35E+00	4.35E+00
6.0E-01	9.76E-02	4.72E-01	1.10E+00	1.79E+00	4.04E+00	4.04E+00
7.0E-01	9.76E-02	4.66E-01	1.09E+00	1.65E+00	3.69E+00	3.69E+00
8.0E-01	9.74E-02	4.55E-01	1.07E+00	1.52E+00	3.33E+00	3.33E+00
1.0E+00	9.70E-02	4.37E-01	1.06E+00	1.32E+00	2.66E+00	2.66E+00
1.2E+00	9.66E-02	4.15E-01	1.03E+00	1.17E+00	2.11E+00	2.11E+00
1.4E+00	9.60E-02	3.88E-01	9.94E-01	1.08E+00	1.70E+00	1.70E+00
1.6E+00	9.56E-02	3.64E-01	9.64E-01	1.02E+00	1.42E+00	1.42E+00
1.8E+00	9.48E-02	3.37E-01	9.27E-01	9.71E-01	1.22E+00	1.22E+00
2.0E+00	9.42E-02	3.10E-01	8.87E-01	9.29E-01	1.08E+00	1.08E+00
2.4E+00	9.24E-02	2.61E-01	8.03E-01	8.45E-01	9.06E-01	9.07E-01
3.0E+00	8.94E-02	1.98E-01	6.74E-01	7.08E-01	7.36E-01	7.36E-01
4.0E+00	8.36E-02	1.29E-01	4.80E-01	4.96E-01	5.21E-01	5.20E-01
5.0E+00	7.66E-02	9.46E-02	3.33E-01	3.39E-01	3.59E-01	3.59E-01
6.0E+00	6.94E-02	7.86E-02	2.33E-01	2.35E-01	2.49E-01	2.49E-01
7.0E+00	6.18E-02	6.92E-02	1.67E-01	1.68E-01	1.77E-01	1.77E-01
8.0E+00	5.44E-02	6.16E-02	1.23E-01	1.24E-01	1.30E-01	1.30E-01
1.0E+01	4.20E-02	4.86E-02	7.32E-02	7.39E-02	7.61E-02	7.50E-02
1.5E+01	1.84E-02	2.14E-02	2.46E-02	2.49E-02	2.52E-02	2.50E-02
2.0E+01	7.80E-03	8.92E-03	9.48E-03	9.59E-03	9.64E-03	9.70E-03
3.0E+01	1.62E-03	1.80E-03	1.84E-03	1.86E-03	1.86E-03	1.90E-03
4.0E+01	4.20E-04	4.62E-04	4.67E-04	4.71E-04	4.71E-04	4.70E-04
6.0E+01	5.00E-05	5.44E-05	5.46E-05	5.50E-05	5.51E-05	5.50E-05
1.0E+02	2.80E-06	3.04E-06	3.04E-06	3.07E-06	3.07E-06	3.00E-06
E[keV]:	3.21E+00	3.26E-01	2.49E-01	2.92E-02	1.58E-02	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z						
0.0E+00	2.65E+00	3.95E+00	4.57E+00	4.97E+00	5.07E+00	5.06E+00
5.0E-02	2.65E+00	3.94E+00	4.57E+00	4.96E+00	5.06E+00	5.06E+00
1.0E-01	2.65E+00	3.92E+00	4.54E+00	4.94E+00	5.04E+00	5.04E+00
1.5E-01	2.65E+00	3.89E+00	4.52E+00	4.91E+00	5.01E+00	5.01E+00
2.0E-01	2.64E+00	3.85E+00	4.47E+00	4.87E+00	4.96E+00	4.96E+00
3.0E-01	2.61E+00	3.71E+00	4.34E+00	4.73E+00	4.83E+00	4.82E+00
4.0E-01	2.54E+00	3.52E+00	4.14E+00	4.53E+00	4.62E+00	4.62E+00
5.0E-01	2.41E+00	3.25E+00	3.87E+00	4.26E+00	4.35E+00	4.35E+00
6.0E-01	2.24E+00	2.94E+00	3.56E+00	3.94E+00	4.04E+00	4.04E+00
7.0E-01	2.04E+00	2.60E+00	3.23E+00	3.59E+00	3.69E+00	3.69E+00
8.0E-01	1.81E+00	2.26E+00	2.87E+00	3.23E+00	3.33E+00	3.33E+00
1.0E+00	1.34E+00	1.60E+00	2.22E+00	2.56E+00	2.66E+00	2.66E+00
1.2E+00	9.36E-01	1.08E+00	1.69E+00	2.01E+00	2.11E+00	2.11E+00
1.4E+00	6.24E-01	7.07E-01	1.31E+00	1.60E+00	1.70E+00	1.70E+00
1.6E+00	3.99E-01	4.54E-01	1.05E+00	1.32E+00	1.42E+00	1.42E+00
1.8E+00	2.50E-01	2.94E-01	8.84E-01	1.13E+00	1.22E+00	1.22E+00
2.0E+00	1.54E-01	1.96E-01	7.73E-01	9.89E-01	1.08E+00	1.08E+00
2.4E+00	6.12E-02	1.03E-01	6.45E-01	8.14E-01	9.06E-01	9.07E-01
3.0E+00	2.79E-02	6.19E-02	5.38E-01	6.47E-01	7.36E-01	7.36E-01
4.0E+00	2.52E-02	4.04E-02	3.92E-01	4.37E-01	5.21E-01	5.20E-01
5.0E+00	2.07E-02	2.58E-02	2.65E-01	2.83E-01	3.59E-01	3.59E-01
6.0E+00	1.43E-02	1.59E-02	1.71E-01	1.80E-01	2.49E-01	2.49E-01
7.0E+00	9.12E-03	9.96E-03	1.08E-01	1.15E-01	1.77E-01	1.77E-01
8.0E+00	5.69E-03	6.42E-03	6.82E-02	7.54E-02	1.30E-01	1.30E-01
1.0E+01	2.22E-03	2.92E-03	2.75E-02	3.41E-02	7.61E-02	7.50E-02
1.5E+01	2.70E-04	5.90E-04	3.77E-03	6.77E-03	2.52E-02	2.50E-02
2.0E+01	4.62E-05	1.62E-04	7.20E-04	1.84E-03	9.64E-03	9.70E-03
3.0E+01	2.88E-06	2.13E-05	5.73E-05	2.39E-04	1.86E-03	1.90E-03
4.0E+01	3.60E-07	4.56E-06	9.06E-06	5.11E-05	4.71E-04	4.70E-04
6.0E+01	1.68E-08	4.57E-07	6.67E-07	5.07E-06	5.51E-05	5.50E-05
1.0E+02	3.06E-10	2.23E-08	2.62E-08	2.66E-07	3.07E-06	3.00E-06
E[keV]:	1.58E-02	2.92E-02	2.49E-01	3.26E-01	3.21E+00	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Z=19

Compton profiles for the single orbitals and binding energies

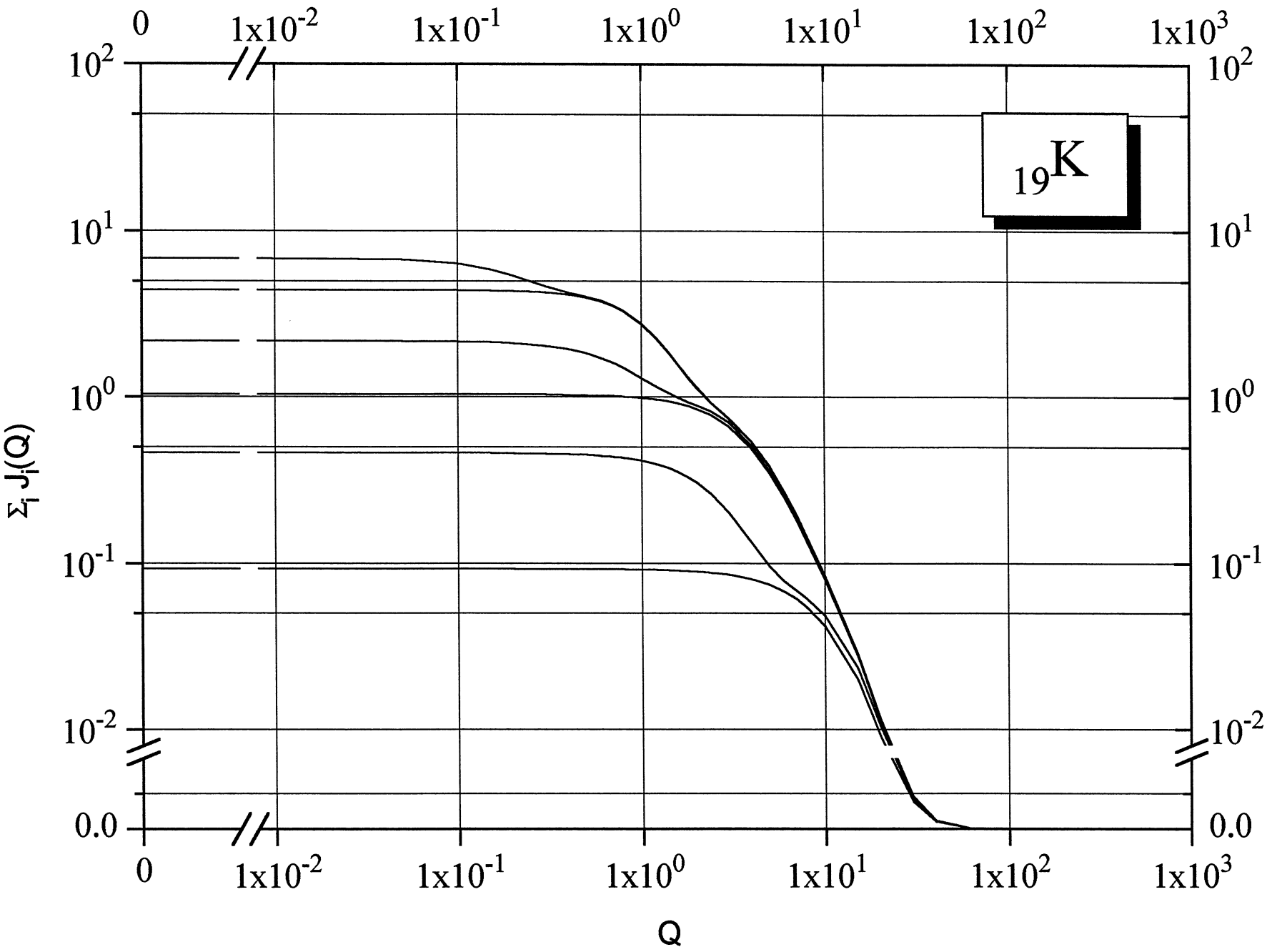
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(1)	Total
0.0E+00	4.64E-02	1.85E-01	9.65E-02	5.70E-01	3.76E-01	2.46E+00	6.90E+00
5.0E-02	4.64E-02	1.85E-01	9.65E-02	5.68E-01	3.76E-01	2.32E+00	6.76E+00
1.0E-01	4.64E-02	1.85E-01	9.65E-02	5.62E-01	3.76E-01	1.96E+00	6.39E+00
1.5E-01	4.64E-02	1.85E-01	9.65E-02	5.52E-01	3.76E-01	1.49E+00	5.89E+00
2.0E-01	4.64E-02	1.84E-01	9.65E-02	5.39E-01	3.75E-01	1.02E+00	5.40E+00
3.0E-01	4.63E-02	1.83E-01	9.65E-02	5.03E-01	3.73E-01	3.71E-01	4.65E+00
4.0E-01	4.63E-02	1.81E-01	9.65E-02	4.57E-01	3.67E-01	1.11E-01	4.26E+00
5.0E-01	4.63E-02	1.79E-01	9.65E-02	4.05E-01	3.57E-01	4.91E-02	4.03E+00
6.0E-01	4.62E-02	1.76E-01	9.64E-02	3.49E-01	3.42E-01	4.27E-02	3.82E+00
7.0E-01	4.62E-02	1.73E-01	9.64E-02	2.95E-01	3.22E-01	4.19E-02	3.58E+00
8.0E-01	4.61E-02	1.70E-01	9.63E-02	2.43E-01	2.98E-01	3.73E-02	3.32E+00
1.0E+00	4.60E-02	1.62E-01	9.60E-02	1.56E-01	2.42E-01	2.33E-02	2.78E+00
1.2E+00	4.58E-02	1.52E-01	9.56E-02	9.46E-02	1.85E-01	1.23E-02	2.28E+00
1.4E+00	4.55E-02	1.42E-01	9.49E-02	5.63E-02	1.34E-01	6.04E-03	1.87E+00
1.6E+00	4.53E-02	1.31E-01	9.39E-02	3.55E-02	9.33E-02	2.95E-03	1.55E+00
1.8E+00	4.50E-02	1.20E-01	9.26E-02	2.57E-02	6.28E-02	1.57E-03	1.32E+00
2.0E+00	4.47E-02	1.09E-01	9.09E-02	2.21E-02	4.13E-02	1.03E-03	1.15E+00
2.4E+00	4.40E-02	8.72E-02	8.66E-02	2.12E-02	1.74E-02	8.23E-04	9.29E-01
3.0E+00	4.27E-02	5.86E-02	7.78E-02	1.92E-02	6.25E-03	7.78E-04	7.47E-01
4.0E+00	4.02E-02	2.67E-02	6.00E-02	1.02E-02	4.59E-03	4.35E-04	5.42E-01
5.0E+00	3.72E-02	1.12E-02	4.28E-02	3.90E-03	4.17E-03	1.67E-04	3.86E-01
6.0E+00	3.39E-02	5.35E-03	2.89E-02	1.33E-03	3.12E-03	5.59E-05	2.73E-01
7.0E+00	3.06E-02	3.72E-03	1.90E-02	5.62E-04	2.12E-03	2.23E-05	1.96E-01
8.0E+00	2.72E-02	3.48E-03	1.23E-02	4.01E-04	1.37E-03	1.51E-05	1.44E-01
1.0E+01	2.10E-02	3.30E-03	5.20E-03	3.80E-04	5.70E-04	1.40E-05	8.40E-02
1.5E+01	1.00E-02	1.70E-03	7.10E-04	2.00E-04	7.30E-05	7.60E-06	2.80E-02
2.0E+01	4.50E-03	6.70E-04	1.30E-04	7.80E-05	1.30E-05	2.90E-06	1.10E-02
3.0E+01	9.70E-04	1.20E-04	8.80E-06	1.30E-05	8.50E-07	4.90E-07	2.30E-03
4.0E+01	2.60E-04	2.70E-05	1.10E-06	3.00E-06	1.10E-07	1.10E-07	5.90E-04
6.0E+01	3.20E-05	2.90E-06	5.30E-08	3.20E-07	5.00E-09	1.20E-08	7.00E-05
1.0E+02	1.80E-06	1.50E-07	9.90E-10	1.70E-08	9.00E-11	6.30E-10	3.90E-06
E[keV]:	3.61E+00	3.79E-01	2.96E-01	3.48E-02	1.83E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(1)	Total
0.0E+00	9.28E-02	4.63E-01	1.04E+00	2.18E+00	4.44E+00	6.90E+00	6.90E+00
5.0E-02	9.28E-02	4.63E-01	1.04E+00	2.18E+00	4.43E+00	6.75E+00	6.76E+00
1.0E-01	9.28E-02	4.63E-01	1.04E+00	2.17E+00	4.42E+00	6.38E+00	6.39E+00
1.5E-01	9.28E-02	4.63E-01	1.04E+00	2.15E+00	4.40E+00	5.89E+00	5.89E+00
2.0E-01	9.28E-02	4.61E-01	1.04E+00	2.12E+00	4.37E+00	5.39E+00	5.40E+00
3.0E-01	9.26E-02	4.59E-01	1.04E+00	2.04E+00	4.28E+00	4.65E+00	4.65E+00
4.0E-01	9.26E-02	4.55E-01	1.03E+00	1.95E+00	4.15E+00	4.26E+00	4.26E+00
5.0E-01	9.26E-02	4.51E-01	1.03E+00	1.84E+00	3.98E+00	4.03E+00	4.03E+00
6.0E-01	9.24E-02	4.44E-01	1.02E+00	1.72E+00	3.77E+00	3.82E+00	3.82E+00
7.0E-01	9.24E-02	4.36E-01	1.02E+00	1.61E+00	3.54E+00	3.58E+00	3.58E+00
8.0E-01	9.22E-02	4.32E-01	1.01E+00	1.50E+00	3.28E+00	3.32E+00	3.32E+00
1.0E+00	9.20E-02	4.16E-01	9.92E-01	1.30E+00	2.76E+00	2.78E+00	2.78E+00
1.2E+00	9.16E-02	3.96E-01	9.69E-01	1.16E+00	2.27E+00	2.28E+00	2.28E+00
1.4E+00	9.10E-02	3.75E-01	9.44E-01	1.06E+00	1.86E+00	1.87E+00	1.87E+00
1.6E+00	9.06E-02	3.53E-01	9.16E-01	9.87E-01	1.55E+00	1.55E+00	1.55E+00
1.8E+00	9.00E-02	3.30E-01	8.86E-01	9.37E-01	1.31E+00	1.32E+00	1.32E+00
2.0E+00	8.94E-02	3.07E-01	8.53E-01	8.97E-01	1.14E+00	1.15E+00	1.15E+00
2.4E+00	8.80E-02	2.62E-01	7.82E-01	8.24E-01	9.29E-01	9.30E-01	9.29E-01
3.0E+00	8.54E-02	2.03E-01	6.70E-01	7.08E-01	7.46E-01	7.46E-01	7.47E-01
4.0E+00	8.04E-02	1.34E-01	4.94E-01	5.14E-01	5.42E-01	5.42E-01	5.42E-01
5.0E+00	7.44E-02	9.68E-02	3.54E-01	3.61E-01	3.86E-01	3.87E-01	3.86E-01
6.0E+00	6.78E-02	7.85E-02	2.52E-01	2.55E-01	2.73E-01	2.73E-01	2.73E-01
7.0E+00	6.12E-02	6.86E-02	1.83E-01	1.84E-01	1.96E-01	1.97E-01	1.96E-01
8.0E+00	5.44E-02	6.14E-02	1.35E-01	1.36E-01	1.44E-01	1.44E-01	1.44E-01
1.0E+01	4.20E-02	4.86E-02	7.98E-02	8.06E-02	8.40E-02	8.40E-02	8.40E-02
1.5E+01	2.00E-02	2.34E-02	2.77E-02	2.81E-02	2.85E-02	2.85E-02	2.80E-02
2.0E+01	9.00E-03	1.03E-02	1.11E-02	1.13E-02	1.14E-02	1.14E-02	1.10E-02
3.0E+01	1.94E-03	2.18E-03	2.23E-03	2.26E-03	2.26E-03	2.26E-03	2.30E-03
4.0E+01	5.20E-04	5.74E-04	5.81E-04	5.87E-04	5.87E-04	5.87E-04	5.90E-04
6.0E+01	6.40E-05	6.98E-05	7.01E-05	7.08E-05	7.08E-05	7.08E-05	7.00E-05
1.0E+02	3.60E-06	3.90E-06	3.91E-06	3.94E-06	3.94E-06	3.94E-06	3.90E-06
E[keV]:	3.61E+00	3.79E-01	2.96E-01	3.48E-02	1.83E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	2.46E+00	4.72E+00	5.86E+00	6.43E+00	6.81E+00	6.90E+00	6.90E+00
5.0E-02	2.32E+00	4.58E+00	5.71E+00	6.29E+00	6.66E+00	6.75E+00	6.76E+00
1.0E-01	1.96E+00	4.22E+00	5.34E+00	5.92E+00	6.29E+00	6.38E+00	6.39E+00
1.5E-01	1.49E+00	3.75E+00	4.85E+00	5.43E+00	5.80E+00	5.89E+00	5.89E+00
2.0E-01	1.02E+00	3.27E+00	4.35E+00	4.93E+00	5.29E+00	5.39E+00	5.40E+00
3.0E-01	3.71E-01	2.61E+00	3.62E+00	4.19E+00	4.56E+00	4.65E+00	4.65E+00
4.0E-01	1.11E-01	2.31E+00	3.23E+00	3.81E+00	4.17E+00	4.26E+00	4.26E+00
5.0E-01	4.91E-02	2.19E+00	3.00E+00	3.58E+00	3.94E+00	4.03E+00	4.03E+00
6.0E-01	4.27E-02	2.09E+00	2.79E+00	3.37E+00	3.72E+00	3.82E+00	3.82E+00
7.0E-01	4.19E-02	1.97E+00	2.56E+00	3.14E+00	3.49E+00	3.58E+00	3.58E+00
8.0E-01	3.73E-02	1.83E+00	2.31E+00	2.89E+00	3.23E+00	3.32E+00	3.32E+00
1.0E+00	2.33E-02	1.48E+00	1.79E+00	2.36E+00	2.69E+00	2.78E+00	2.78E+00
1.2E+00	1.23E-02	1.12E+00	1.31E+00	1.89E+00	2.19E+00	2.28E+00	2.28E+00
1.4E+00	6.04E-03	8.10E-01	9.23E-01	1.49E+00	1.78E+00	1.87E+00	1.87E+00
1.6E+00	2.95E-03	5.63E-01	6.34E-01	1.20E+00	1.46E+00	1.55E+00	1.55E+00
1.8E+00	1.57E-03	3.76E-01	4.30E-01	9.85E-01	1.23E+00	1.32E+00	1.32E+00
2.0E+00	1.03E-03	2.49E-01	2.93E-01	8.38E-01	1.06E+00	1.15E+00	1.15E+00
2.4E+00	8.23E-04	1.05E-01	1.48E-01	6.67E-01	8.42E-01	9.30E-01	9.29E-01
3.0E+00	7.78E-04	3.83E-02	7.67E-02	5.43E-01	6.61E-01	7.46E-01	7.47E-01
4.0E+00	4.35E-04	2.80E-02	4.84E-02	4.08E-01	4.62E-01	5.42E-01	5.42E-01
5.0E+00	1.67E-04	2.52E-02	3.30E-02	2.90E-01	3.12E-01	3.87E-01	3.86E-01
6.0E+00	5.59E-05	1.88E-02	2.14E-02	1.95E-01	2.06E-01	2.73E-01	2.73E-01
7.0E+00	2.23E-05	1.27E-02	1.39E-02	1.28E-01	1.35E-01	1.97E-01	1.96E-01
8.0E+00	1.51E-05	8.24E-03	9.04E-03	8.28E-02	8.98E-02	1.44E-01	1.44E-01
1.0E+01	1.40E-05	3.43E-03	4.19E-03	3.54E-02	4.20E-02	8.40E-02	8.40E-02
1.5E+01	7.60E-06	4.46E-04	8.46E-04	5.11E-03	8.51E-03	2.85E-02	2.80E-02
2.0E+01	2.90E-06	8.09E-05	2.37E-04	1.02E-03	2.36E-03	1.14E-02	1.10E-02
3.0E+01	4.90E-07	5.59E-06	3.16E-05	8.44E-05	3.24E-04	2.26E-03	2.30E-03
4.0E+01	1.10E-07	7.70E-07	6.77E-06	1.34E-05	6.74E-05	5.87E-04	5.90E-04
6.0E+01	1.20E-08	4.20E-08	6.82E-07	1.00E-06	6.80E-06	7.08E-05	7.00E-05
1.0E+02	6.30E-10	1.17E-09	3.52E-08	4.11E-08	3.41E-07	3.94E-06	3.90E-06
E[keV]:	0.00E+00	1.83E-02	3.48E-02	2.96E-01	3.79E-01	3.61E+00	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1x10-1
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1x101
1x102
1x103
102
101
100
10-1
10-2
0.0
19K
Σi Ji(Q)
Q

Z=20

Compton profiles for the single orbitals and binding energies

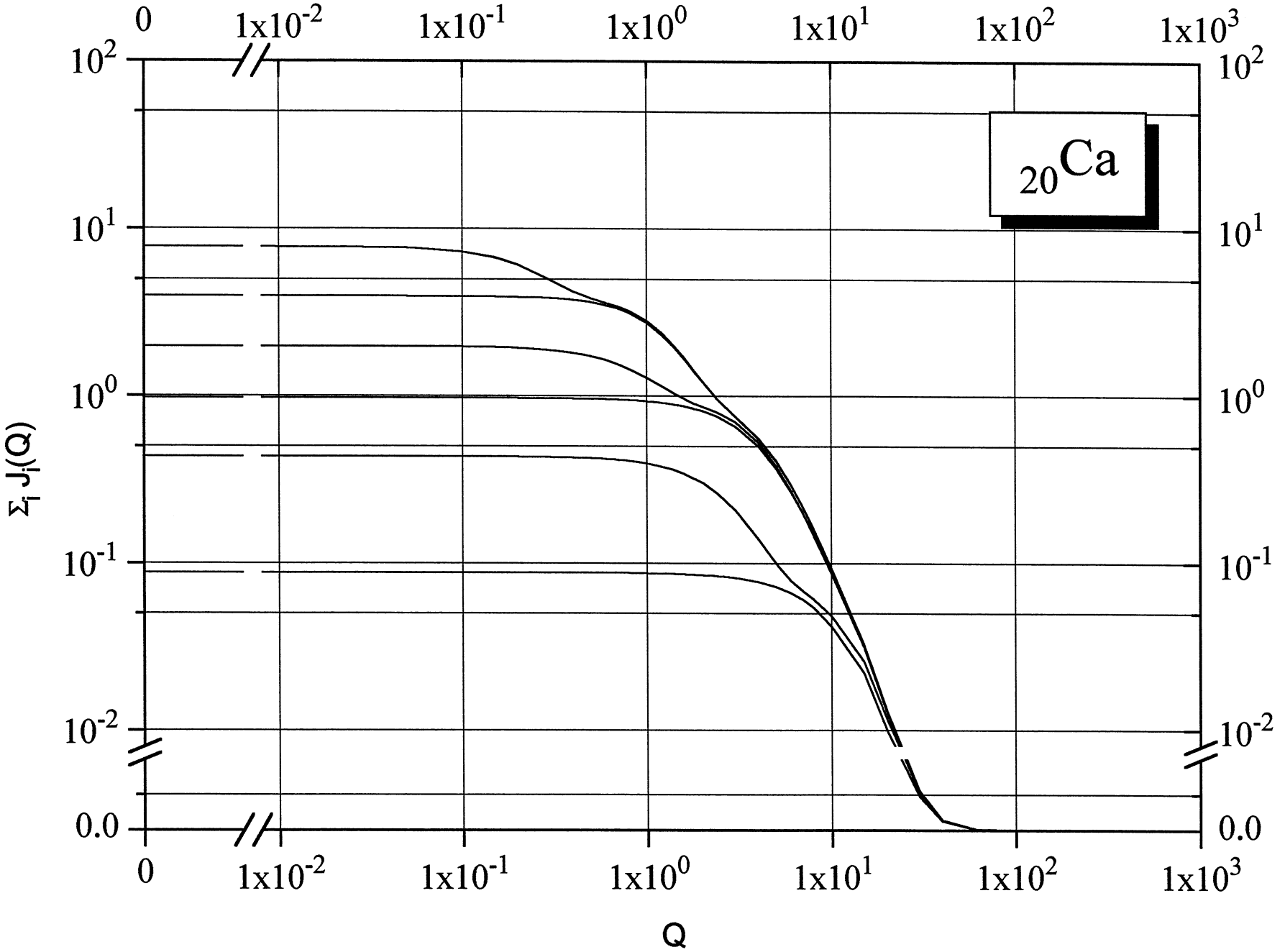
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(2)	Total
0.0E+00	4.40E-02	1.74E-01	9.02E-02	5.08E-01	3.30E-01	1.95E+00	7.87E+00
5.0E-02	4.40E-02	1.74E-01	9.02E-02	5.07E-01	3.30E-01	1.87E+00	7.72E+00
1.0E-01	4.40E-02	1.74E-01	9.02E-02	5.03E-01	3.30E-01	1.68E+00	7.32E+00
1.5E-01	4.40E-02	1.74E-01	9.02E-02	4.96E-01	3.30E-01	1.40E+00	6.74E+00
2.0E-01	4.40E-02	1.73E-01	9.02E-02	4.86E-01	3.30E-01	1.09E+00	6.10E+00
3.0E-01	4.40E-02	1.72E-01	9.02E-02	4.60E-01	3.29E-01	5.47E-01	4.96E+00
4.0E-01	4.39E-02	1.71E-01	9.02E-02	4.26E-01	3.26E-01	2.28E-01	4.23E+00
5.0E-01	4.39E-02	1.69E-01	9.02E-02	3.86E-01	3.20E-01	9.35E-02	3.85E+00
6.0E-01	4.39E-02	1.67E-01	9.01E-02	3.42E-01	3.11E-01	5.32E-02	3.62E+00
7.0E-01	4.38E-02	1.64E-01	9.01E-02	2.98E-01	2.99E-01	4.66E-02	3.44E+00
8.0E-01	4.38E-02	1.61E-01	9.00E-02	2.54E-01	2.83E-01	4.63E-02	3.25E+00
1.0E+00	4.36E-02	1.54E-01	8.99E-02	1.76E-01	2.44E-01	3.92E-02	2.83E+00
1.2E+00	4.35E-02	1.46E-01	8.95E-02	1.15E-01	1.99E-01	2.64E-02	2.40E+00
1.4E+00	4.33E-02	1.38E-01	8.90E-02	7.24E-02	1.55E-01	1.54E-02	2.00E+00
1.6E+00	4.31E-02	1.28E-01	8.83E-02	4.60E-02	1.16E-01	8.31E-03	1.68E+00
1.8E+00	4.28E-02	1.18E-01	8.73E-02	3.14E-02	8.35E-02	4.39E-03	1.42E+00
2.0E+00	4.26E-02	1.09E-01	8.61E-02	2.45E-02	5.84E-02	2.46E-03	1.22E+00
2.4E+00	4.20E-02	8.91E-02	8.27E-02	2.12E-02	2.71E-02	1.34E-03	9.66E-01
3.0E+00	4.09E-02	6.26E-02	7.58E-02	2.04E-02	9.05E-03	1.26E-03	7.59E-01
4.0E+00	3.87E-02	3.07E-02	6.07E-02	1.28E-02	4.83E-03	8.48E-04	5.59E-01
5.0E+00	3.60E-02	1.37E-02	4.51E-02	5.59E-03	4.65E-03	3.76E-04	4.10E-01
6.0E+00	3.32E-02	6.37E-03	3.17E-02	2.06E-03	3.79E-03	1.37E-04	2.96E-01
7.0E+00	3.02E-02	3.93E-03	2.16E-02	8.06E-04	2.73E-03	5.12E-05	2.16E-01
8.0E+00	2.71E-02	3.39E-03	1.44E-02	4.66E-04	1.85E-03	2.76E-05	1.60E-01
1.0E+01	2.10E-02	3.30E-03	6.40E-03	4.10E-04	8.10E-04	2.30E-05	9.30E-02
1.5E+01	1.10E-02	1.90E-03	9.40E-04	2.50E-04	1.10E-04	1.40E-05	3.20E-02
2.0E+01	5.00E-03	7.90E-04	1.80E-04	1.00E-04	2.10E-05	5.80E-06	1.30E-02
3.0E+01	1.20E-03	1.40E-04	1.30E-05	1.80E-05	1.40E-06	1.00E-06	2.70E-03
4.0E+01	3.20E-04	3.40E-05	1.60E-06	4.20E-06	1.80E-07	2.40E-07	7.20E-04
6.0E+01	4.00E-05	3.80E-06	7.80E-08	4.60E-07	9.40E-09	2.60E-08	8.90E-05
1.0E+02	2.30E-06	2.00E-07	1.50E-09	2.40E-08	1.70E-10	1.40E-09	5.00E-06
E[keV]:	4.04E+00	4.38E-01	3.48E-01	4.40E-02	2.48E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(2)	Total
0.0E+00	8.80E-02	4.36E-01	9.77E-01	1.99E+00	3.97E+00	7.87E+00	7.87E+00
5.0E-02	8.80E-02	4.36E-01	9.77E-01	1.99E+00	3.97E+00	7.71E+00	7.72E+00
1.0E-01	8.80E-02	4.36E-01	9.77E-01	1.98E+00	3.96E+00	7.32E+00	7.32E+00
1.5E-01	8.80E-02	4.36E-01	9.77E-01	1.97E+00	3.95E+00	6.75E+00	6.74E+00
2.0E-01	8.80E-02	4.34E-01	9.75E-01	1.95E+00	3.93E+00	6.11E+00	6.10E+00
3.0E-01	8.80E-02	4.32E-01	9.73E-01	1.89E+00	3.87E+00	4.96E+00	4.96E+00
4.0E-01	8.78E-02	4.30E-01	9.71E-01	1.82E+00	3.78E+00	4.24E+00	4.23E+00
5.0E-01	8.78E-02	4.26E-01	9.67E-01	1.74E+00	3.66E+00	3.85E+00	3.85E+00
6.0E-01	8.78E-02	4.22E-01	9.62E-01	1.65E+00	3.51E+00	3.62E+00	3.62E+00
7.0E-01	8.76E-02	4.16E-01	9.56E-01	1.55E+00	3.35E+00	3.44E+00	3.44E+00
8.0E-01	8.76E-02	4.10E-01	9.50E-01	1.46E+00	3.16E+00	3.25E+00	3.25E+00
1.0E+00	8.72E-02	3.95E-01	9.35E-01	1.29E+00	2.75E+00	2.83E+00	2.83E+00
1.2E+00	8.70E-02	3.79E-01	9.16E-01	1.15E+00	2.34E+00	2.39E+00	2.40E+00
1.4E+00	8.66E-02	3.63E-01	8.97E-01	1.04E+00	1.97E+00	2.00E+00	2.00E+00
1.6E+00	8.62E-02	3.42E-01	8.72E-01	9.64E-01	1.66E+00	1.68E+00	1.68E+00
1.8E+00	8.56E-02	3.22E-01	8.45E-01	9.08E-01	1.41E+00	1.42E+00	1.42E+00
2.0E+00	8.52E-02	3.03E-01	8.20E-01	8.69E-01	1.22E+00	1.22E+00	1.22E+00
2.4E+00	8.40E-02	2.62E-01	7.58E-01	8.01E-01	9.63E-01	9.66E-01	9.66E-01
3.0E+00	8.18E-02	2.07E-01	6.62E-01	7.03E-01	7.57E-01	7.59E-01	7.59E-01
4.0E+00	7.74E-02	1.39E-01	5.03E-01	5.29E-01	5.58E-01	5.59E-01	5.59E-01
5.0E+00	7.20E-02	9.94E-02	3.70E-01	3.81E-01	4.09E-01	4.10E-01	4.10E-01
6.0E+00	6.64E-02	7.91E-02	2.69E-01	2.73E-01	2.96E-01	2.96E-01	2.96E-01
7.0E+00	6.04E-02	6.83E-02	1.98E-01	1.99E-01	2.16E-01	2.16E-01	2.16E-01
8.0E+00	5.42E-02	6.10E-02	1.47E-01	1.48E-01	1.59E-01	1.59E-01	1.60E-01
1.0E+01	4.20E-02	4.86E-02	8.70E-02	8.78E-02	9.27E-02	9.27E-02	9.30E-02
1.5E+01	2.20E-02	2.58E-02	3.14E-02	3.19E-02	3.26E-02	3.26E-02	3.20E-02
2.0E+01	1.00E-02	1.16E-02	1.27E-02	1.29E-02	1.30E-02	1.30E-02	1.30E-02
3.0E+01	2.40E-03	2.68E-03	2.76E-03	2.79E-03	2.80E-03	2.80E-03	2.70E-03
4.0E+01	6.40E-04	7.08E-04	7.18E-04	7.26E-04	7.27E-04	7.28E-04	7.20E-04
6.0E+01	8.00E-05	8.76E-05	8.81E-05	8.90E-05	8.90E-05	8.91E-05	8.90E-05
1.0E+02	4.60E-06	5.00E-06	5.01E-06	5.06E-06	5.06E-06	5.06E-06	5.00E-06
E[keV]:	4.04E+00	4.38E-01	3.48E-01	4.40E-02	2.48E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	3.90E+00	5.88E+00	6.90E+00	7.44E+00	7.79E+00	7.87E+00	7.87E+00
5.0E-02	3.74E+00	5.72E+00	6.73E+00	7.28E+00	7.62E+00	7.71E+00	7.72E+00
1.0E-01	3.36E+00	5.34E+00	6.35E+00	6.89E+00	7.24E+00	7.32E+00	7.32E+00
1.5E-01	2.80E+00	4.78E+00	5.77E+00	6.31E+00	6.66E+00	6.75E+00	6.74E+00
2.0E-01	2.18E+00	4.16E+00	5.13E+00	5.67E+00	6.02E+00	6.11E+00	6.10E+00
3.0E-01	1.09E+00	3.07E+00	3.99E+00	4.53E+00	4.87E+00	4.96E+00	4.96E+00
4.0E-01	4.56E-01	2.41E+00	3.26E+00	3.81E+00	4.15E+00	4.24E+00	4.23E+00
5.0E-01	1.87E-01	2.11E+00	2.88E+00	3.42E+00	3.76E+00	3.85E+00	3.85E+00
6.0E-01	1.06E-01	1.97E+00	2.66E+00	3.20E+00	3.53E+00	3.62E+00	3.62E+00
7.0E-01	9.32E-02	1.89E+00	2.48E+00	3.02E+00	3.35E+00	3.44E+00	3.44E+00
8.0E-01	9.26E-02	1.79E+00	2.30E+00	2.84E+00	3.16E+00	3.25E+00	3.25E+00
1.0E+00	7.84E-02	1.54E+00	1.89E+00	2.43E+00	2.74E+00	2.83E+00	2.83E+00
1.2E+00	5.28E-02	1.25E+00	1.48E+00	2.01E+00	2.31E+00	2.39E+00	2.40E+00
1.4E+00	3.08E-02	9.61E-01	1.11E+00	1.64E+00	1.92E+00	2.00E+00	2.00E+00
1.6E+00	1.66E-02	7.13E-01	8.05E-01	1.33E+00	1.59E+00	1.68E+00	1.68E+00
1.8E+00	8.78E-03	5.10E-01	5.73E-01	1.10E+00	1.33E+00	1.42E+00	1.42E+00
2.0E+00	4.92E-03	3.55E-01	4.04E-01	9.21E-01	1.14E+00	1.22E+00	1.22E+00
2.4E+00	2.68E-03	1.65E-01	2.08E-01	7.04E-01	8.82E-01	9.66E-01	9.66E-01
3.0E+00	2.52E-03	5.68E-02	9.76E-02	5.52E-01	6.78E-01	7.59E-01	7.59E-01
4.0E+00	1.70E-03	3.07E-02	5.63E-02	4.20E-01	4.82E-01	5.59E-01	5.59E-01
5.0E+00	7.52E-04	2.87E-02	3.98E-02	3.10E-01	3.38E-01	4.10E-01	4.10E-01
6.0E+00	2.74E-04	2.30E-02	2.71E-02	2.17E-01	2.30E-01	2.96E-01	2.96E-01
7.0E+00	1.02E-04	1.65E-02	1.81E-02	1.48E-01	1.56E-01	2.16E-01	2.16E-01
8.0E+00	5.52E-05	1.12E-02	1.21E-02	9.85E-02	1.05E-01	1.59E-01	1.60E-01
1.0E+01	4.60E-05	4.91E-03	5.73E-03	4.41E-02	5.07E-02	9.27E-02	9.30E-02
1.5E+01	2.80E-05	6.88E-04	1.19E-03	6.83E-03	1.06E-02	3.26E-02	3.20E-02
2.0E+01	1.16E-05	1.38E-04	3.38E-04	1.42E-03	3.00E-03	1.30E-02	1.30E-02
3.0E+01	2.00E-06	1.04E-05	4.64E-05	1.24E-04	4.04E-04	2.80E-03	2.70E-03
4.0E+01	4.80E-07	1.56E-06	9.96E-06	1.96E-05	8.76E-05	7.28E-04	7.20E-04
6.0E+01	5.20E-08	1.02E-07	1.02E-06	1.49E-06	9.09E-06	8.91E-05	8.90E-05
1.0E+02	2.80E-09	3.82E-09	5.18E-08	6.08E-08	4.61E-07	5.06E-06	5.00E-06
E[keV]:	0.00E+00	2.48E-02	4.40E-02	3.48E-01	4.38E-01	4.04E+00	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1x10-1
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10^1
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10-1
10-2
0.0
20Ca
Σi Ji(Q)
Q

Z=21

Compton profiles for the single orbitals and binding energies

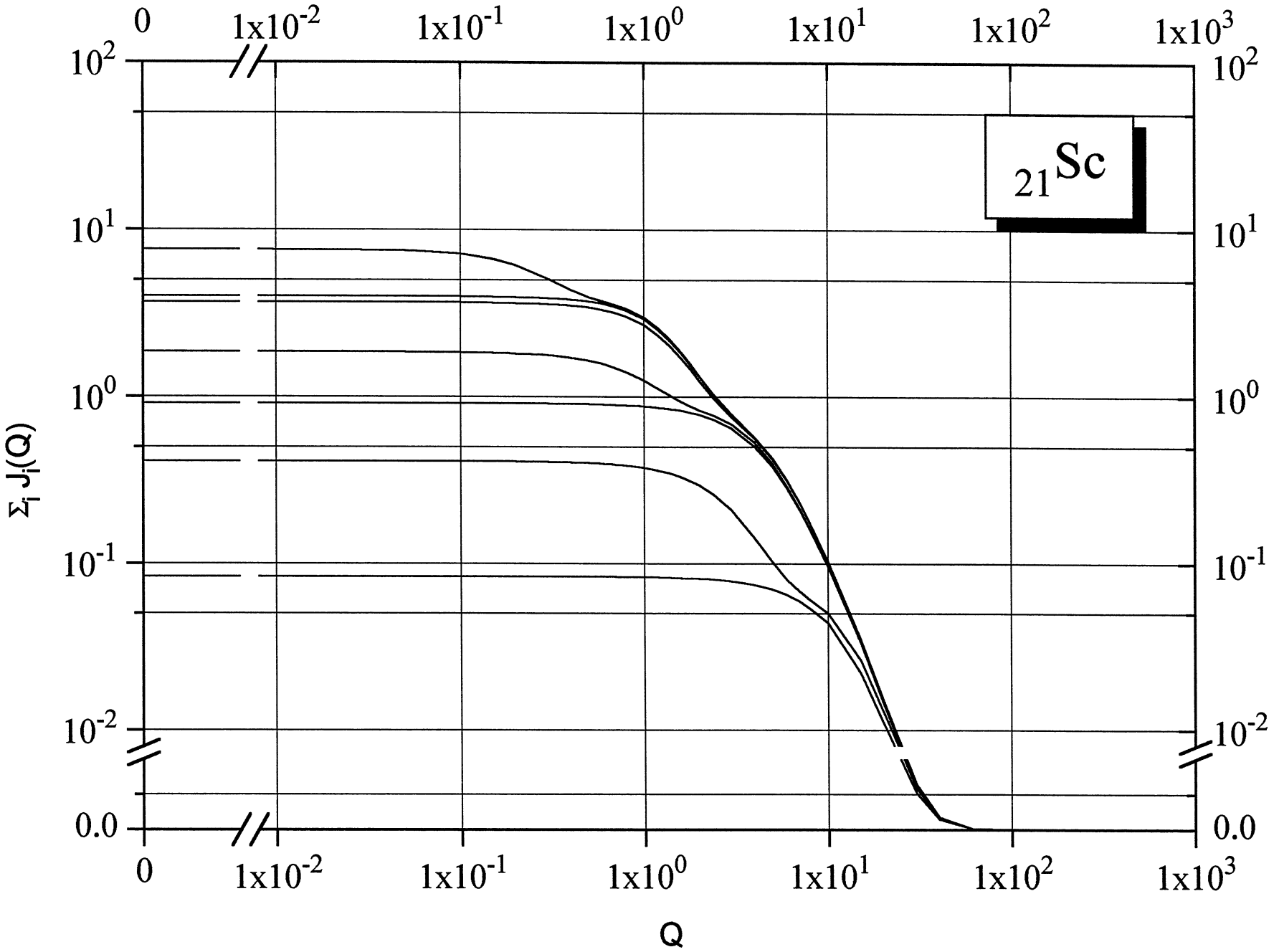
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(1)	3p+(2)	Total
0.0E+00	4.18E-02	1.64E-01	8.47E-02	4.71E-01	3.04E-01	3.10E-01	1.84E+00	7.67E+00
5.0E-02	4.18E-02	1.64E-01	8.47E-02	4.70E-01	3.04E-01	3.10E-01	1.78E+00	7.55E+00
1.0E-01	4.18E-02	1.64E-01	8.47E-02	4.67E-01	3.04E-01	3.10E-01	1.61E+00	7.20E+00
1.5E-01	4.18E-02	1.64E-01	8.47E-02	4.61E-01	3.04E-01	3.10E-01	1.37E+00	6.70E+00
2.0E-01	4.18E-02	1.63E-01	8.47E-02	4.53E-01	3.04E-01	3.10E-01	1.09E+00	6.14E+00
3.0E-01	4.18E-02	1.62E-01	8.47E-02	4.32E-01	3.03E-01	3.09E-01	5.89E-01	5.08E+00
4.0E-01	4.18E-02	1.61E-01	8.47E-02	4.04E-01	3.01E-01	3.07E-01	2.66E-01	4.37E+00
5.0E-01	4.18E-02	1.60E-01	8.47E-02	3.71E-01	2.97E-01	3.03E-01	1.12E-01	3.96E+00
6.0E-01	4.17E-02	1.58E-01	8.46E-02	3.34E-01	2.90E-01	2.94E-01	5.69E-02	3.73E+00
7.0E-01	4.17E-02	1.55E-01	8.46E-02	2.96E-01	2.81E-01	2.82E-01	4.35E-02	3.55E+00
8.0E-01	4.16E-02	1.53E-01	8.46E-02	2.58E-01	2.70E-01	2.66E-01	4.22E-02	3.38E+00
1.0E+00	4.15E-02	1.47E-01	8.44E-02	1.87E-01	2.40E-01	2.29E-01	3.89E-02	3.00E+00
1.2E+00	4.14E-02	1.40E-01	8.42E-02	1.28E-01	2.03E-01	1.90E-01	2.89E-02	2.59E+00
1.4E+00	4.12E-02	1.33E-01	8.38E-02	8.44E-02	1.65E-01	1.54E-01	1.85E-02	2.20E+00
1.6E+00	4.11E-02	1.25E-01	8.33E-02	5.49E-02	1.29E-01	1.23E-01	1.08E-02	1.86E+00
1.8E+00	4.08E-02	1.16E-01	8.25E-02	3.69E-02	9.71E-02	9.74E-02	6.03E-03	1.58E+00
2.0E+00	4.06E-02	1.08E-01	8.16E-02	2.71E-02	7.12E-02	7.68E-02	3.38E-03	1.35E+00
2.4E+00	4.01E-02	9.01E-02	7.90E-02	2.08E-02	3.59E-02	4.76E-02	1.47E-03	1.04E+00
3.0E+00	3.91E-02	6.57E-02	7.34E-02	2.02E-02	1.24E-02	2.35E-02	1.20E-03	7.91E-01
4.0E+00	3.72E-02	3.44E-02	6.07E-02	1.45E-02	4.90E-03	7.66E-03	9.43E-04	5.76E-01
5.0E+00	3.49E-02	1.63E-02	4.67E-02	7.19E-03	4.69E-03	2.70E-03	4.79E-04	4.29E-01
6.0E+00	3.24E-02	7.65E-03	3.41E-02	2.92E-03	4.13E-03	1.03E-03	1.94E-04	3.16E-01
7.0E+00	2.97E-02	4.33E-03	2.39E-02	1.14E-03	3.16E-03	4.24E-04	7.36E-05	2.34E-01
8.0E+00	2.69E-02	3.38E-03	1.65E-02	5.62E-04	2.25E-03	1.87E-04	3.40E-05	1.74E-01
1.0E+01	2.20E-02	3.20E-03	7.60E-03	4.10E-04	1.00E-03	4.30E-05	2.30E-05	1.00E-01
1.5E+01	1.10E-02	2.10E-03	1.20E-03	2.80E-04	1.60E-04	2.30E-06	1.60E-05	3.50E-02
2.0E+01	5.50E-03	9.20E-04	2.40E-04	1.20E-04	3.00E-05	2.30E-07	7.00E-06	1.50E-02
3.0E+01	1.30E-03	1.80E-04	1.70E-05	2.30E-05	2.10E-06	6.60E-09	1.30E-06	3.20E-03
4.0E+01	3.80E-04	4.30E-05	2.30E-06	5.50E-06	2.70E-07	4.60E-10	3.10E-07	8.80E-04
6.0E+01	5.00E-05	4.90E-06	1.10E-07	6.20E-07	1.30E-08	9.80E-12	3.50E-08	1.10E-04
1.0E+02	2.90E-06	2.60E-07	2.10E-09	3.30E-08	2.40E-10	1.50E-13	1.80E-09	6.40E-06
E[keV]:	4.49E+00	4.98E-01	4.00E-01	5.11E-02	2.83E-02	8.00E-04	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(1)	3p+(2)	Total
0.0E+00	8.36E-02	4.12E-01	9.20E-01	1.86E+00	3.69E+00	4.00E+00	7.68E+00	7.67E+00
5.0E-02	8.36E-02	4.12E-01	9.20E-01	1.86E+00	3.68E+00	3.99E+00	7.55E+00	7.55E+00
1.0E-01	8.36E-02	4.12E-01	9.20E-01	1.85E+00	3.68E+00	3.99E+00	7.21E+00	7.20E+00
1.5E-01	8.36E-02	4.12E-01	9.20E-01	1.84E+00	3.67E+00	3.98E+00	6.72E+00	6.70E+00
2.0E-01	8.36E-02	4.10E-01	9.18E-01	1.82E+00	3.65E+00	3.96E+00	6.14E+00	6.14E+00
3.0E-01	8.36E-02	4.08E-01	9.16E-01	1.78E+00	3.60E+00	3.91E+00	5.08E+00	5.08E+00
4.0E-01	8.36E-02	4.06E-01	9.14E-01	1.72E+00	3.53E+00	3.83E+00	4.37E+00	4.37E+00
5.0E-01	8.36E-02	4.04E-01	9.12E-01	1.65E+00	3.44E+00	3.74E+00	3.96E+00	3.96E+00
6.0E-01	8.34E-02	3.99E-01	9.07E-01	1.58E+00	3.32E+00	3.61E+00	3.72E+00	3.73E+00
7.0E-01	8.34E-02	3.93E-01	9.01E-01	1.49E+00	3.18E+00	3.46E+00	3.55E+00	3.55E+00
8.0E-01	8.32E-02	3.89E-01	8.97E-01	1.41E+00	3.03E+00	3.30E+00	3.38E+00	3.38E+00
1.0E+00	8.30E-02	3.77E-01	8.82E-01	1.26E+00	2.70E+00	2.93E+00	3.00E+00	3.00E+00
1.2E+00	8.28E-02	3.63E-01	8.66E-01	1.12E+00	2.34E+00	2.53E+00	2.59E+00	2.59E+00
1.4E+00	8.24E-02	3.48E-01	8.51E-01	1.02E+00	2.01E+00	2.16E+00	2.20E+00	2.20E+00
1.6E+00	8.22E-02	3.32E-01	8.32E-01	9.42E-01	1.72E+00	1.84E+00	1.86E+00	1.86E+00
1.8E+00	8.16E-02	3.14E-01	8.09E-01	8.82E-01	1.47E+00	1.56E+00	1.57E+00	1.58E+00
2.0E+00	8.12E-02	2.97E-01	7.87E-01	8.41E-01	1.27E+00	1.35E+00	1.35E+00	1.35E+00
2.4E+00	8.02E-02	2.60E-01	7.34E-01	7.76E-01	9.91E-01	1.04E+00	1.04E+00	1.04E+00
3.0E+00	7.82E-02	2.10E-01	6.50E-01	6.90E-01	7.65E-01	7.88E-01	7.91E-01	7.91E-01
4.0E+00	7.44E-02	1.43E-01	5.07E-01	5.36E-01	5.66E-01	5.73E-01	5.75E-01	5.76E-01
5.0E+00	6.98E-02	1.02E-01	3.83E-01	3.97E-01	4.25E-01	4.28E-01	4.29E-01	4.29E-01
6.0E+00	6.48E-02	8.01E-02	2.85E-01	2.91E-01	3.15E-01	3.16E-01	3.17E-01	3.16E-01
7.0E+00	5.94E-02	6.81E-02	2.11E-01	2.14E-01	2.33E-01	2.33E-01	2.33E-01	2.34E-01
8.0E+00	5.38E-02	6.06E-02	1.60E-01	1.61E-01	1.74E-01	1.74E-01	1.74E-01	1.74E-01
1.0E+01	4.40E-02	5.04E-02	9.60E-02	9.68E-02	1.03E-01	1.03E-01	1.03E-01	1.00E-01
1.5E+01	2.20E-02	2.62E-02	3.34E-02	3.40E-02	3.49E-02	3.49E-02	3.50E-02	3.50E-02
2.0E+01	1.10E-02	1.28E-02	1.43E-02	1.45E-02	1.47E-02	1.47E-02	1.47E-02	1.50E-02
3.0E+01	2.60E-03	2.96E-03	3.06E-03	3.11E-03	3.12E-03	3.12E-03	3.12E-03	3.20E-03
4.0E+01	7.60E-04	8.46E-04	8.60E-04	8.71E-04	8.72E-04	8.72E-04	8.73E-04	8.80E-04
6.0E+01	1.00E-04	1.10E-04	1.10E-04	1.12E-04	1.12E-04	1.12E-04	1.12E-04	1.10E-04
1.0E+02	5.80E-06	6.32E-06	6.33E-06	6.40E-06	6.40E-06	6.40E-06	6.40E-06	6.40E-06
E[keV]:	4.49E+00	4.98E-01	4.00E-01	5.11E-02	2.83E-02	8.00E-04	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	3.68E+00	3.99E+00	5.81E+00	6.76E+00	7.26E+00	7.59E+00	7.68E+00	7.67E+00
5.0E-02	3.56E+00	3.87E+00	5.69E+00	6.63E+00	7.14E+00	7.47E+00	7.55E+00	7.55E+00
1.0E-01	3.22E+00	3.53E+00	5.35E+00	6.29E+00	6.80E+00	7.12E+00	7.21E+00	7.20E+00
1.5E-01	2.74E+00	3.05E+00	4.87E+00	5.80E+00	6.30E+00	6.63E+00	6.72E+00	6.70E+00
2.0E-01	2.18E+00	2.49E+00	4.31E+00	5.22E+00	5.73E+00	6.05E+00	6.14E+00	6.14E+00
3.0E-01	1.18E+00	1.49E+00	3.31E+00	4.17E+00	4.68E+00	5.00E+00	5.08E+00	5.08E+00
4.0E-01	5.32E-01	8.39E-01	2.65E+00	3.45E+00	3.96E+00	4.28E+00	4.37E+00	4.37E+00
5.0E-01	2.24E-01	5.27E-01	2.31E+00	3.05E+00	3.56E+00	3.88E+00	3.96E+00	3.96E+00
6.0E-01	1.14E-01	4.08E-01	2.15E+00	2.82E+00	3.32E+00	3.64E+00	3.72E+00	3.73E+00
7.0E-01	8.70E-02	3.69E-01	2.06E+00	2.65E+00	3.15E+00	3.46E+00	3.55E+00	3.55E+00
8.0E-01	8.44E-02	3.50E-01	1.97E+00	2.49E+00	2.99E+00	3.30E+00	3.38E+00	3.38E+00
1.0E+00	7.78E-02	3.07E-01	1.75E+00	2.12E+00	2.63E+00	2.92E+00	3.00E+00	3.00E+00
1.2E+00	5.78E-02	2.48E-01	1.47E+00	1.72E+00	2.23E+00	2.51E+00	2.59E+00	2.59E+00
1.4E+00	3.70E-02	1.91E-01	1.18E+00	1.35E+00	1.85E+00	2.12E+00	2.20E+00	2.20E+00
1.6E+00	2.16E-02	1.45E-01	9.19E-01	1.03E+00	1.53E+00	1.78E+00	1.86E+00	1.86E+00
1.8E+00	1.21E-02	1.09E-01	6.92E-01	7.66E-01	1.26E+00	1.49E+00	1.57E+00	1.58E+00
2.0E+00	6.76E-03	8.36E-02	5.11E-01	5.65E-01	1.05E+00	1.27E+00	1.35E+00	1.35E+00
2.4E+00	2.94E-03	5.05E-02	2.66E-01	3.08E-01	7.82E-01	9.62E-01	1.04E+00	1.04E+00
3.0E+00	2.40E-03	2.59E-02	1.00E-01	1.41E-01	5.81E-01	7.13E-01	7.91E-01	7.91E-01
4.0E+00	1.89E-03	9.55E-03	3.89E-02	6.79E-02	4.32E-01	5.01E-01	5.75E-01	5.76E-01
5.0E+00	9.58E-04	3.66E-03	3.18E-02	4.62E-02	3.26E-01	3.59E-01	4.29E-01	4.29E-01
6.0E+00	3.88E-04	1.42E-03	2.62E-02	3.20E-02	2.37E-01	2.52E-01	3.17E-01	3.16E-01
7.0E+00	1.47E-04	5.71E-04	1.95E-02	2.18E-02	1.65E-01	1.74E-01	2.33E-01	2.34E-01
8.0E+00	6.80E-05	2.55E-04	1.38E-02	1.49E-02	1.14E-01	1.21E-01	1.74E-01	1.74E-01
1.0E+01	4.60E-05	8.90E-05	6.09E-03	6.91E-03	5.25E-02	5.89E-02	1.03E-01	1.00E-01
1.5E+01	3.20E-05	3.43E-05	9.94E-04	1.55E-03	8.75E-03	1.30E-02	3.50E-02	3.50E-02
2.0E+01	1.40E-05	1.42E-05	1.94E-04	4.34E-04	1.87E-03	3.71E-03	1.47E-02	1.50E-02
3.0E+01	2.60E-06	2.61E-06	1.52E-05	6.12E-05	1.63E-04	5.23E-04	3.12E-03	3.20E-03
4.0E+01	6.20E-07	6.20E-07	2.24E-06	1.32E-05	2.70E-05	1.13E-04	8.73E-04	8.80E-04
6.0E+01	7.00E-08	7.00E-08	1.48E-07	1.39E-06	2.05E-06	1.18E-05	1.12E-04	1.10E-04
1.0E+02	3.60E-09	3.60E-09	5.04E-09	7.10E-08	8.36E-08	6.04E-07	6.40E-06	6.40E-06
E[keV]:	0.00E+00	8.00E-04	2.83E-02	5.11E-02	4.00E-01	4.98E-01	4.49E+00	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1x102
1x103
102
101
100
10-1
10-2
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Σi Ji(Q)
Q
21Sc

z=22

Compton profiles for the single orbitals and binding energies

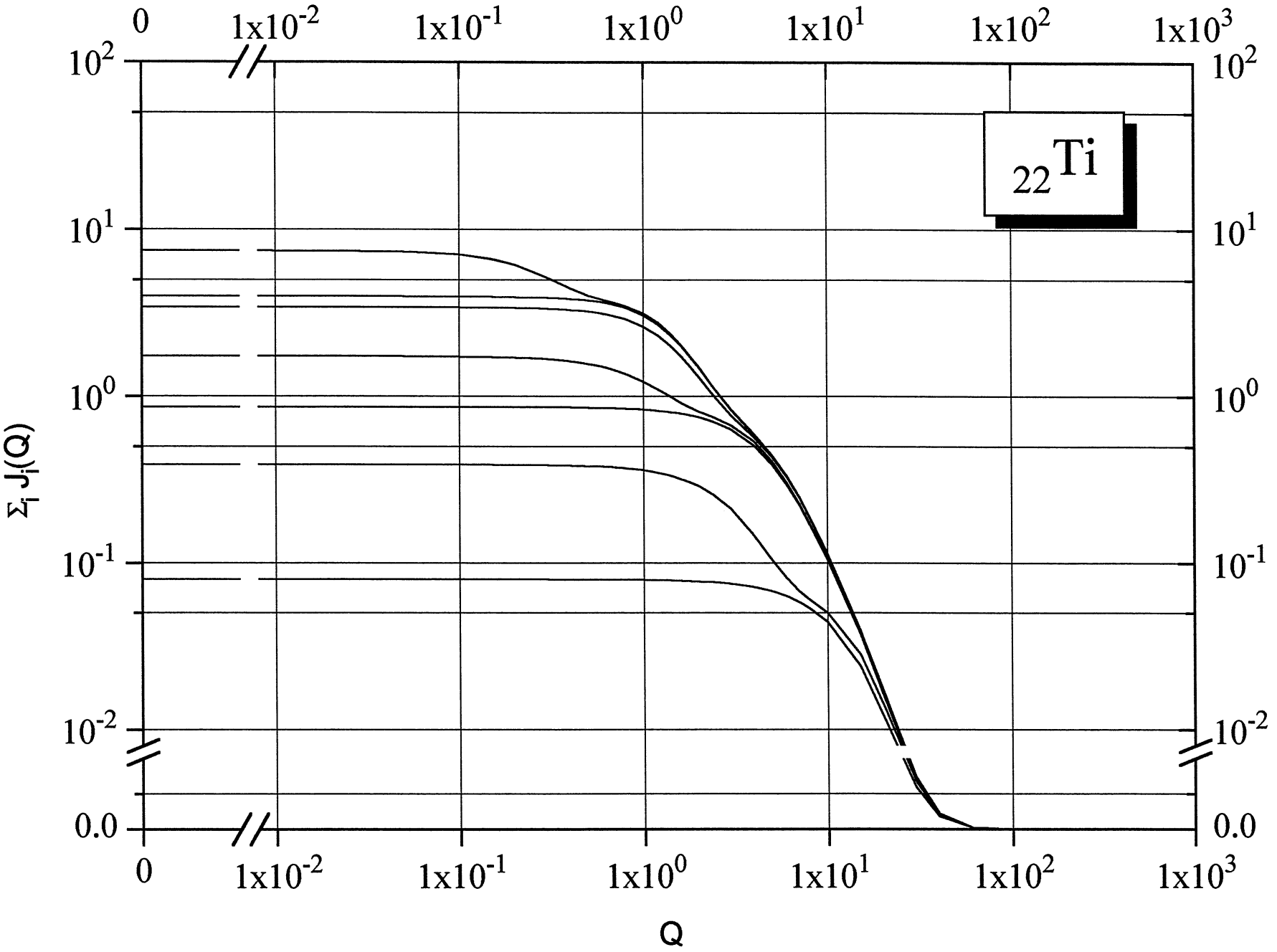
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(2)	3p+(2)	Total
0.0E+00	3.99E-02	1.55E-01	7.98E-02	4.41E-01	2.82E-01	2.75E-01	1.76E+00	7.51E+00
5.0E-02	3.99E-02	1.55E-01	7.98E-02	4.40E-01	2.82E-01	2.75E-01	1.71E+00	7.40E+00
1.0E-01	3.99E-02	1.55E-01	7.98E-02	4.37E-01	2.82E-01	2.75E-01	1.56E+00	7.10E+00
1.5E-01	3.99E-02	1.55E-01	7.98E-02	4.32E-01	2.82E-01	2.75E-01	1.34E+00	6.66E+00
2.0E-01	3.99E-02	1.54E-01	7.98E-02	4.26E-01	2.82E-01	2.75E-01	1.09E+00	6.14E+00
3.0E-01	3.99E-02	1.54E-01	7.98E-02	4.08E-01	2.82E-01	2.75E-01	6.19E-01	5.16E+00
4.0E-01	3.98E-02	1.53E-01	7.98E-02	3.85E-01	2.80E-01	2.74E-01	2.97E-01	4.46E+00
5.0E-01	3.98E-02	1.51E-01	7.98E-02	3.57E-01	2.77E-01	2.71E-01	1.30E-01	4.04E+00
6.0E-01	3.98E-02	1.50E-01	7.98E-02	3.26E-01	2.73E-01	2.66E-01	6.23E-02	3.80E+00
7.0E-01	3.98E-02	1.48E-01	7.98E-02	2.93E-01	2.66E-01	2.59E-01	4.19E-02	3.64E+00
8.0E-01	3.97E-02	1.46E-01	7.97E-02	2.59E-01	2.57E-01	2.49E-01	3.84E-02	3.48E+00
1.0E+00	3.96E-02	1.41E-01	7.96E-02	1.94E-01	2.33E-01	2.23E-01	3.70E-02	3.15E+00
1.2E+00	3.95E-02	1.35E-01	7.94E-02	1.39E-01	2.03E-01	1.92E-01	2.97E-02	2.77E+00
1.4E+00	3.94E-02	1.28E-01	7.92E-02	9.50E-02	1.70E-01	1.62E-01	2.05E-02	2.39E+00
1.6E+00	3.92E-02	1.21E-01	7.87E-02	6.37E-02	1.38E-01	1.34E-01	1.28E-02	2.04E+00
1.8E+00	3.90E-02	1.14E-01	7.82E-02	4.31E-02	1.08E-01	1.10E-01	7.57E-03	1.74E+00
2.0E+00	3.88E-02	1.06E-01	7.74E-02	3.06E-02	8.22E-02	8.94E-02	4.37E-03	1.50E+00
2.4E+00	3.84E-02	9.05E-02	7.54E-02	2.09E-02	4.47E-02	5.86E-02	1.70E-03	1.14E+00
3.0E+00	3.75E-02	6.80E-02	7.09E-02	1.95E-02	1.65E-02	3.09E-02	1.12E-03	8.39E-01
4.0E+00	3.59E-02	3.78E-02	6.03E-02	1.57E-02	5.22E-03	1.10E-02	9.74E-04	5.96E-01
5.0E+00	3.38E-02	1.89E-02	4.79E-02	8.72E-03	4.60E-03	4.14E-03	5.61E-04	4.47E-01
6.0E+00	3.16E-02	9.14E-03	3.60E-02	3.89E-03	4.30E-03	1.66E-03	2.52E-04	3.35E-01
7.0E+00	2.91E-02	4.92E-03	2.61E-02	1.59E-03	3.50E-03	7.05E-04	1.01E-04	2.51E-01
8.0E+00	2.67E-02	3.47E-03	1.85E-02	7.17E-04	2.61E-03	3.18E-04	4.34E-05	1.89E-01
1.0E+01	2.20E-02	3.10E-03	9.00E-03	4.10E-04	1.30E-03	7.60E-05	2.20E-05	1.10E-01
1.5E+01	1.20E-02	2.20E-03	1.50E-03	3.10E-04	2.10E-04	4.20E-06	1.70E-05	3.90E-02
2.0E+01	6.00E-03	1.00E-03	3.10E-04	1.50E-04	4.10E-05	4.30E-07	8.00E-06	1.70E-02
3.0E+01	1.50E-03	2.10E-04	2.40E-05	2.90E-05	3.00E-06	1.30E-08	1.60E-06	3.70E-03
4.0E+01	4.50E-04	5.30E-05	3.20E-06	7.10E-06	3.90E-07	9.00E-10	3.90E-07	1.10E-03
6.0E+01	6.10E-05	6.20E-06	1.60E-07	8.00E-07	1.90E-08	1.90E-11	4.40E-08	1.40E-04
1.0E+02	3.60E-06	3.30E-07	3.00E-09	4.30E-08	3.50E-10	6.50E-14	2.40E-09	8.00E-06
E[keV]:	4.97E+00	5.61E-01	4.57E-01	5.84E-02	3.26E-02	8.00E-04	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(2)	3p+(2)	Total
0.0E+00	7.98E-02	3.90E-01	8.69E-01	1.75E+00	3.44E+00	3.99E+00	7.51E+00	7.51E+00
5.0E-02	7.98E-02	3.90E-01	8.69E-01	1.75E+00	3.44E+00	3.99E+00	7.41E+00	7.40E+00
1.0E-01	7.98E-02	3.90E-01	8.69E-01	1.74E+00	3.43E+00	3.98E+00	7.10E+00	7.10E+00
1.5E-01	7.98E-02	3.90E-01	8.69E-01	1.73E+00	3.42E+00	3.97E+00	6.65E+00	6.66E+00
2.0E-01	7.98E-02	3.88E-01	8.67E-01	1.72E+00	3.41E+00	3.96E+00	6.14E+00	6.14E+00
3.0E-01	7.98E-02	3.88E-01	8.67E-01	1.68E+00	3.37E+00	3.92E+00	5.16E+00	5.16E+00
4.0E-01	7.96E-02	3.86E-01	8.64E-01	1.63E+00	3.31E+00	3.86E+00	4.46E+00	4.46E+00
5.0E-01	7.96E-02	3.82E-01	8.60E-01	1.57E+00	3.24E+00	3.78E+00	4.04E+00	4.04E+00
6.0E-01	7.96E-02	3.80E-01	8.58E-01	1.51E+00	3.15E+00	3.68E+00	3.81E+00	3.80E+00
7.0E-01	7.96E-02	3.76E-01	8.54E-01	1.44E+00	3.04E+00	3.55E+00	3.64E+00	3.64E+00
8.0E-01	7.94E-02	3.71E-01	8.50E-01	1.37E+00	2.91E+00	3.41E+00	3.48E+00	3.48E+00
1.0E+00	7.92E-02	3.61E-01	8.39E-01	1.23E+00	2.62E+00	3.07E+00	3.14E+00	3.15E+00
1.2E+00	7.90E-02	3.49E-01	8.25E-01	1.10E+00	2.32E+00	2.71E+00	2.76E+00	2.77E+00
1.4E+00	7.88E-02	3.35E-01	8.10E-01	1.00E+00	2.02E+00	2.34E+00	2.39E+00	2.39E+00
1.6E+00	7.84E-02	3.20E-01	7.93E-01	9.20E-01	1.75E+00	2.02E+00	2.04E+00	2.04E+00
1.8E+00	7.80E-02	3.06E-01	7.75E-01	8.61E-01	1.51E+00	1.73E+00	1.74E+00	1.74E+00
2.0E+00	7.76E-02	2.90E-01	7.54E-01	8.15E-01	1.31E+00	1.49E+00	1.50E+00	1.50E+00
2.4E+00	7.68E-02	2.58E-01	7.10E-01	7.52E-01	1.02E+00	1.14E+00	1.14E+00	1.14E+00
3.0E+00	7.50E-02	2.11E-01	6.36E-01	6.75E-01	7.74E-01	8.36E-01	8.38E-01	8.39E-01
4.0E+00	7.18E-02	1.47E-01	5.09E-01	5.41E-01	5.72E-01	5.94E-01	5.96E-01	5.96E-01
5.0E+00	6.76E-02	1.05E-01	3.93E-01	4.10E-01	4.38E-01	4.46E-01	4.47E-01	4.47E-01
6.0E+00	6.32E-02	8.15E-02	2.97E-01	3.05E-01	3.31E-01	3.34E-01	3.35E-01	3.35E-01
7.0E+00	5.82E-02	6.80E-02	2.25E-01	2.28E-01	2.49E-01	2.50E-01	2.50E-01	2.51E-01
8.0E+00	5.34E-02	6.03E-02	1.71E-01	1.73E-01	1.88E-01	1.89E-01	1.89E-01	1.89E-01
1.0E+01	4.40E-02	5.02E-02	1.04E-01	1.05E-01	1.13E-01	1.13E-01	1.13E-01	1.10E-01
1.5E+01	2.40E-02	2.84E-02	3.74E-02	3.80E-02	3.93E-02	3.93E-02	3.93E-02	3.90E-02
2.0E+01	1.20E-02	1.40E-02	1.59E-02	1.62E-02	1.64E-02	1.64E-02	1.64E-02	1.70E-02
3.0E+01	3.00E-03	3.42E-03	3.56E-03	3.62E-03	3.64E-03	3.64E-03	3.64E-03	3.70E-03
4.0E+01	9.00E-04	1.01E-03	1.03E-03	1.04E-03	1.04E-03	1.04E-03	1.04E-03	1.10E-03
6.0E+01	1.22E-04	1.34E-04	1.35E-04	1.37E-04	1.37E-04	1.37E-04	1.37E-04	1.40E-04
1.0E+02	7.20E-06	7.86E-06	7.88E-06	7.96E-06	7.97E-06	7.97E-06	7.97E-06	8.00E-06
E[keV]:	4.97E+00	5.61E-01	4.57E-01	5.84E-02	3.26E-02	8.00E-04	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	3.52E+00	4.07E+00	5.76E+00	6.64E+00	7.12E+00	7.43E+00	7.51E+00	7.51E+00
5.0E-02	3.42E+00	3.97E+00	5.66E+00	6.54E+00	7.02E+00	7.33E+00	7.41E+00	7.40E+00
1.0E-01	3.12E+00	3.67E+00	5.36E+00	6.24E+00	6.71E+00	7.02E+00	7.10E+00	7.10E+00
1.5E-01	2.68E+00	3.23E+00	4.92E+00	5.79E+00	6.26E+00	6.57E+00	6.65E+00	6.66E+00
2.0E-01	2.18E+00	2.73E+00	4.42E+00	5.27E+00	5.75E+00	6.06E+00	6.14E+00	6.14E+00
3.0E-01	1.24E+00	1.79E+00	3.48E+00	4.30E+00	4.77E+00	5.08E+00	5.16E+00	5.16E+00
4.0E-01	5.94E-01	1.14E+00	2.82E+00	3.59E+00	4.07E+00	4.38E+00	4.46E+00	4.46E+00
5.0E-01	2.60E-01	8.02E-01	2.46E+00	3.18E+00	3.66E+00	3.96E+00	4.04E+00	4.04E+00
6.0E-01	1.25E-01	6.57E-01	2.29E+00	2.95E+00	3.43E+00	3.73E+00	3.81E+00	3.80E+00
7.0E-01	8.38E-02	6.02E-01	2.20E+00	2.78E+00	3.26E+00	3.56E+00	3.64E+00	3.64E+00
8.0E-01	7.68E-02	5.75E-01	2.12E+00	2.63E+00	3.11E+00	3.41E+00	3.48E+00	3.48E+00
1.0E+00	7.40E-02	5.20E-01	1.92E+00	2.31E+00	2.78E+00	3.07E+00	3.14E+00	3.15E+00
1.2E+00	5.94E-02	4.43E-01	1.66E+00	1.94E+00	2.42E+00	2.69E+00	2.76E+00	2.77E+00
1.4E+00	4.10E-02	3.65E-01	1.39E+00	1.58E+00	2.05E+00	2.31E+00	2.39E+00	2.39E+00
1.6E+00	2.56E-02	2.94E-01	1.12E+00	1.25E+00	1.72E+00	1.96E+00	2.04E+00	2.04E+00
1.8E+00	1.51E-02	2.35E-01	8.83E-01	9.69E-01	1.44E+00	1.67E+00	1.74E+00	1.74E+00
2.0E+00	8.74E-03	1.88E-01	6.81E-01	7.42E-01	1.21E+00	1.42E+00	1.50E+00	1.50E+00
2.4E+00	3.40E-03	1.21E-01	3.89E-01	4.31E-01	8.83E-01	1.06E+00	1.14E+00	1.14E+00
3.0E+00	2.24E-03	6.40E-02	1.63E-01	2.02E-01	6.27E-01	7.63E-01	8.38E-01	8.39E-01
4.0E+00	1.95E-03	2.39E-02	5.53E-02	8.67E-02	4.48E-01	5.24E-01	5.96E-01	5.96E-01
5.0E+00	1.12E-03	9.40E-03	3.70E-02	5.44E-02	3.42E-01	3.80E-01	4.47E-01	4.47E-01
6.0E+00	5.04E-04	3.82E-03	2.96E-02	3.74E-02	2.53E-01	2.72E-01	3.35E-01	3.35E-01
7.0E+00	2.02E-04	1.61E-03	2.26E-02	2.58E-02	1.82E-01	1.92E-01	2.50E-01	2.51E-01
8.0E+00	8.68E-05	7.23E-04	1.64E-02	1.78E-02	1.29E-01	1.36E-01	1.89E-01	1.89E-01
1.0E+01	4.40E-05	1.96E-04	8.00E-03	8.82E-03	6.28E-02	6.90E-02	1.13E-01	1.10E-01
1.5E+01	3.40E-05	4.24E-05	1.30E-03	1.92E-03	1.09E-02	1.53E-02	3.93E-02	3.90E-02
2.0E+01	1.60E-05	1.69E-05	2.62E-04	5.63E-04	2.42E-03	4.42E-03	1.64E-02	1.70E-02
3.0E+01	3.20E-06	3.23E-06	2.12E-05	7.92E-05	2.23E-04	6.43E-04	3.64E-03	3.70E-03
4.0E+01	7.80E-07	7.82E-07	3.12E-06	1.73E-05	3.65E-05	1.43E-04	1.04E-03	1.10E-03
6.0E+01	8.80E-08	8.80E-08	2.02E-07	1.80E-06	2.76E-06	1.52E-05	1.37E-04	1.40E-04
1.0E+02	4.80E-09	4.80E-09	6.90E-09	9.29E-08	1.11E-07	7.71E-07	7.97E-06	8.00E-06
E[keV]:	0.00E+00	8.00E-04	3.26E-02	5.84E-02	4.57E-01	5.61E-01	4.97E+00	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10-2
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22Ti
Σi Ji(Q)
Q

Z=23

Compton profiles for the single orbitals and binding energies

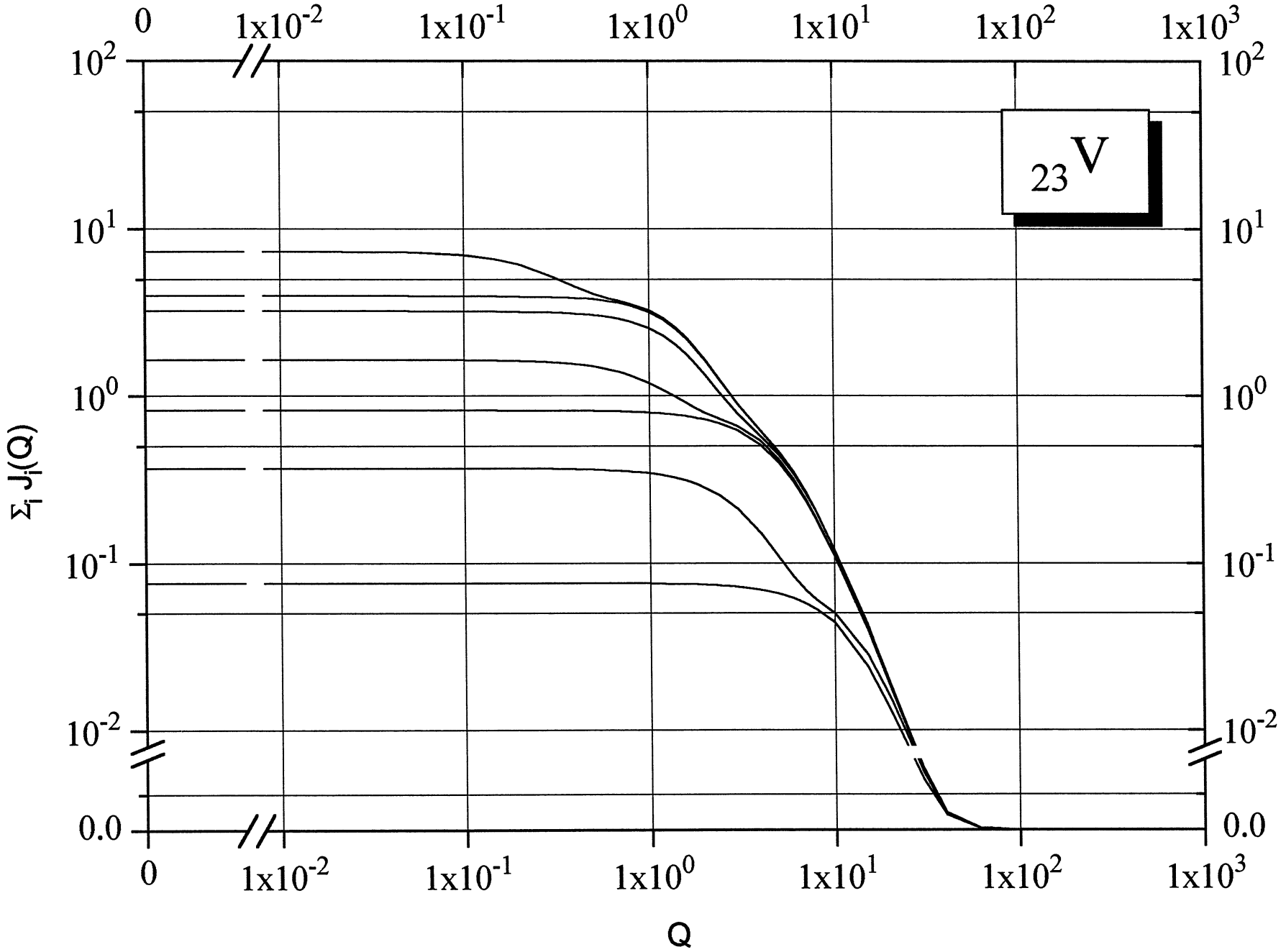
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(3)	3p+(2)	Total
0.0E+00	3.81E-02	1.47E-01	7.55E-02	4.15E-01	2.64E-01	2.50E-01	1.69E+00	7.38E+00
5.0E-02	3.81E-02	1.47E-01	7.55E-02	4.14E-01	2.64E-01	2.50E-01	1.65E+00	7.28E+00
1.0E-01	3.81E-02	1.47E-01	7.55E-02	4.12E-01	2.64E-01	2.50E-01	1.51E+00	7.01E+00
1.5E-01	3.81E-02	1.47E-01	7.55E-02	4.08E-01	2.64E-01	2.50E-01	1.32E+00	6.61E+00
2.0E-01	3.81E-02	1.46E-01	7.55E-02	4.03E-01	2.64E-01	2.50E-01	1.09E+00	6.14E+00
3.0E-01	3.81E-02	1.46E-01	7.55E-02	3.88E-01	2.64E-01	2.50E-01	6.43E-01	5.21E+00
4.0E-01	3.81E-02	1.45E-01	7.55E-02	3.68E-01	2.63E-01	2.49E-01	3.24E-01	4.53E+00
5.0E-01	3.81E-02	1.44E-01	7.55E-02	3.44E-01	2.61E-01	2.48E-01	1.47E-01	4.11E+00
6.0E-01	3.80E-02	1.42E-01	7.55E-02	3.17E-01	2.57E-01	2.45E-01	6.91E-02	3.86E+00
7.0E-01	3.80E-02	1.41E-01	7.55E-02	2.88E-01	2.52E-01	2.40E-01	4.20E-02	3.70E+00
8.0E-01	3.80E-02	1.39E-01	7.54E-02	2.58E-01	2.45E-01	2.33E-01	3.56E-02	3.56E+00
1.0E+00	3.79E-02	1.35E-01	7.54E-02	1.99E-01	2.26E-01	2.14E-01	3.46E-02	3.26E+00
1.2E+00	3.78E-02	1.30E-01	7.52E-02	1.47E-01	2.01E-01	1.90E-01	2.96E-02	2.92E+00
1.4E+00	3.76E-02	1.24E-01	7.50E-02	1.04E-01	1.73E-01	1.65E-01	2.17E-02	2.56E+00
1.6E+00	3.75E-02	1.18E-01	7.47E-02	7.21E-02	1.44E-01	1.40E-01	1.44E-02	2.22E+00
1.8E+00	3.74E-02	1.11E-01	7.42E-02	4.95E-02	1.16E-01	1.18E-01	8.97E-03	1.91E+00
2.0E+00	3.72E-02	1.04E-01	7.37E-02	3.49E-02	9.15E-02	9.84E-02	5.38E-03	1.65E+00
2.4E+00	3.68E-02	9.04E-02	7.20E-02	2.16E-02	5.32E-02	6.74E-02	2.03E-03	1.26E+00
3.0E+00	3.61E-02	6.97E-02	6.84E-02	1.87E-02	2.12E-02	3.77E-02	1.05E-03	9.02E-01
4.0E+00	3.46E-02	4.08E-02	5.95E-02	1.64E-02	5.87E-03	1.45E-02	9.61E-04	6.21E-01
5.0E+00	3.28E-02	2.15E-02	4.85E-02	1.01E-02	4.46E-03	5.79E-03	6.22E-04	4.65E-01
6.0E+00	3.08E-02	1.08E-02	3.76E-02	4.94E-03	4.34E-03	2.43E-03	3.08E-04	3.53E-01
7.0E+00	2.86E-02	5.70E-03	2.80E-02	2.15E-03	3.75E-03	1.07E-03	1.33E-04	2.67E-01
8.0E+00	2.63E-02	3.69E-03	2.04E-02	9.46E-04	2.92E-03	4.96E-04	5.65E-05	2.03E-01
1.0E+01	2.20E-02	3.00E-03	1.00E-02	4.20E-04	1.50E-03	1.20E-04	2.20E-05	1.20E-01
1.5E+01	1.20E-02	2.30E-03	1.90E-03	3.30E-04	2.70E-04	7.10E-06	1.80E-05	4.30E-02
2.0E+01	6.50E-03	1.20E-03	4.00E-04	1.70E-04	5.50E-05	7.50E-07	8.90E-06	1.80E-02
3.0E+01	1.80E-03	2.50E-04	3.20E-05	3.50E-05	4.10E-06	2.30E-08	1.90E-06	4.30E-03
4.0E+01	5.30E-04	6.50E-05	4.30E-06	8.90E-06	5.50E-07	1.60E-09	4.70E-07	1.20E-03
6.0E+01	7.30E-05	7.70E-06	2.20E-07	1.00E-06	2.70E-08	3.50E-11	5.40E-08	1.70E-04
1.0E+02	4.50E-06	4.20E-07	4.30E-09	5.60E-08	5.40E-10	1.20E-13	2.90E-09	9.90E-06
E[keV]:	5.47E+00	6.27E-01	5.16E-01	6.63E-02	3.72E-02	7.00E-04	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(3)	3p+(2)	Total
0.0E+00	7.62E-02	3.70E-01	8.23E-01	1.65E+00	3.24E+00	3.99E+00	7.37E+00	7.38E+00
5.0E-02	7.62E-02	3.70E-01	8.23E-01	1.65E+00	3.24E+00	3.99E+00	7.29E+00	7.28E+00
1.0E-01	7.62E-02	3.70E-01	8.23E-01	1.65E+00	3.23E+00	3.98E+00	7.00E+00	7.01E+00
1.5E-01	7.62E-02	3.70E-01	8.23E-01	1.64E+00	3.22E+00	3.97E+00	6.61E+00	6.61E+00
2.0E-01	7.62E-02	3.68E-01	8.21E-01	1.63E+00	3.21E+00	3.96E+00	6.14E+00	6.14E+00
3.0E-01	7.62E-02	3.68E-01	8.21E-01	1.60E+00	3.18E+00	3.93E+00	5.22E+00	5.21E+00
4.0E-01	7.62E-02	3.66E-01	8.19E-01	1.56E+00	3.13E+00	3.88E+00	4.53E+00	4.53E+00
5.0E-01	7.62E-02	3.64E-01	8.17E-01	1.51E+00	3.07E+00	3.82E+00	4.11E+00	4.11E+00
6.0E-01	7.60E-02	3.60E-01	8.13E-01	1.45E+00	2.99E+00	3.72E+00	3.86E+00	3.86E+00
7.0E-01	7.60E-02	3.58E-01	8.11E-01	1.39E+00	2.90E+00	3.62E+00	3.70E+00	3.70E+00
8.0E-01	7.60E-02	3.54E-01	8.06E-01	1.32E+00	2.79E+00	3.49E+00	3.56E+00	3.56E+00
1.0E+00	7.58E-02	3.46E-01	7.96E-01	1.20E+00	2.55E+00	3.19E+00	3.26E+00	3.26E+00
1.2E+00	7.56E-02	3.36E-01	7.87E-01	1.08E+00	2.29E+00	2.86E+00	2.92E+00	2.92E+00
1.4E+00	7.52E-02	3.23E-01	7.73E-01	9.81E-01	2.02E+00	2.51E+00	2.56E+00	2.56E+00
1.6E+00	7.50E-02	3.11E-01	7.59E-01	9.03E-01	1.77E+00	2.19E+00	2.22E+00	2.22E+00
1.8E+00	7.48E-02	2.97E-01	7.42E-01	8.41E-01	1.54E+00	1.89E+00	1.91E+00	1.91E+00
2.0E+00	7.44E-02	2.82E-01	7.25E-01	7.94E-01	1.34E+00	1.64E+00	1.65E+00	1.65E+00
2.4E+00	7.36E-02	2.54E-01	6.86E-01	7.30E-01	1.05E+00	1.25E+00	1.26E+00	1.26E+00
3.0E+00	7.22E-02	2.12E-01	6.22E-01	6.59E-01	7.87E-01	9.00E-01	9.02E-01	9.02E-01
4.0E+00	6.92E-02	1.51E-01	5.08E-01	5.41E-01	5.76E-01	6.19E-01	6.21E-01	6.21E-01
5.0E+00	6.56E-02	1.09E-01	4.00E-01	4.20E-01	4.47E-01	4.64E-01	4.65E-01	4.65E-01
6.0E+00	6.16E-02	8.32E-02	3.09E-01	3.19E-01	3.45E-01	3.52E-01	3.53E-01	3.53E-01
7.0E+00	5.72E-02	6.86E-02	2.37E-01	2.41E-01	2.65E-01	2.67E-01	2.67E-01	2.67E-01
8.0E+00	5.26E-02	6.00E-02	1.82E-01	1.84E-01	2.02E-01	2.03E-01	2.03E-01	2.03E-01
1.0E+01	4.40E-02	5.00E-02	1.10E-01	1.11E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01
1.5E+01	2.40E-02	2.86E-02	4.00E-02	4.07E-02	4.23E-02	4.23E-02	4.23E-02	4.30E-02
2.0E+01	1.30E-02	1.54E-02	1.78E-02	1.81E-02	1.85E-02	1.85E-02	1.85E-02	1.80E-02
3.0E+01	3.60E-03	4.10E-03	4.29E-03	4.36E-03	4.39E-03	4.39E-03	4.39E-03	4.30E-03
4.0E+01	1.06E-03	1.19E-03	1.22E-03	1.23E-03	1.24E-03	1.24E-03	1.24E-03	1.20E-03
6.0E+01	1.46E-04	1.61E-04	1.63E-04	1.65E-04	1.65E-04	1.65E-04	1.65E-04	1.70E-04
1.0E+02	9.00E-06	9.84E-06	9.87E-06	9.98E-06	9.98E-06	9.98E-06	9.99E-06	9.90E-06
E[keV]:	5.47E+00	6.27E-01	5.16E-01	6.63E-02	3.72E-02	7.00E-04	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	3.38E+00	4.13E+00	5.71E+00	6.54E+00	7.00E+00	7.29E+00	7.37E+00	7.38E+00
5.0E-02	3.30E+00	4.05E+00	5.63E+00	6.46E+00	6.92E+00	7.21E+00	7.29E+00	7.28E+00
1.0E-01	3.02E+00	3.77E+00	5.35E+00	6.18E+00	6.63E+00	6.93E+00	7.00E+00	7.01E+00
1.5E-01	2.64E+00	3.39E+00	4.97E+00	5.79E+00	6.24E+00	6.54E+00	6.61E+00	6.61E+00
2.0E-01	2.18E+00	2.93E+00	4.51E+00	5.32E+00	5.77E+00	6.07E+00	6.14E+00	6.14E+00
3.0E-01	1.29E+00	2.04E+00	3.62E+00	4.40E+00	4.85E+00	5.14E+00	5.22E+00	5.21E+00
4.0E-01	6.48E-01	1.40E+00	2.97E+00	3.71E+00	4.16E+00	4.45E+00	4.53E+00	4.53E+00
5.0E-01	2.94E-01	1.04E+00	2.60E+00	3.29E+00	3.75E+00	4.03E+00	4.11E+00	4.11E+00
6.0E-01	1.38E-01	8.73E-01	2.42E+00	3.05E+00	3.50E+00	3.79E+00	3.86E+00	3.86E+00
7.0E-01	8.40E-02	8.04E-01	2.32E+00	2.89E+00	3.35E+00	3.63E+00	3.70E+00	3.70E+00
8.0E-01	7.12E-02	7.70E-01	2.24E+00	2.76E+00	3.21E+00	3.49E+00	3.56E+00	3.56E+00
1.0E+00	6.92E-02	7.11E-01	2.07E+00	2.47E+00	2.92E+00	3.19E+00	3.26E+00	3.26E+00
1.2E+00	5.92E-02	6.29E-01	1.84E+00	2.13E+00	2.58E+00	2.84E+00	2.92E+00	2.92E+00
1.4E+00	4.34E-02	5.38E-01	1.58E+00	1.78E+00	2.23E+00	2.48E+00	2.56E+00	2.56E+00
1.6E+00	2.88E-02	4.49E-01	1.31E+00	1.46E+00	1.91E+00	2.14E+00	2.22E+00	2.22E+00
1.8E+00	1.79E-02	3.72E-01	1.07E+00	1.17E+00	1.61E+00	1.83E+00	1.91E+00	1.91E+00
2.0E+00	1.08E-02	3.06E-01	8.55E-01	9.25E-01	1.37E+00	1.57E+00	1.65E+00	1.65E+00
2.4E+00	4.06E-03	2.06E-01	5.25E-01	5.69E-01	1.00E+00	1.18E+00	1.26E+00	1.26E+00
3.0E+00	2.10E-03	1.15E-01	2.42E-01	2.80E-01	6.90E-01	8.30E-01	9.02E-01	9.02E-01
4.0E+00	1.92E-03	4.54E-02	8.06E-02	1.13E-01	4.70E-01	5.52E-01	6.21E-01	6.21E-01
5.0E+00	1.24E-03	1.86E-02	4.54E-02	6.56E-02	3.57E-01	4.00E-01	4.65E-01	4.65E-01
6.0E+00	6.16E-04	7.91E-03	3.39E-02	4.38E-02	2.69E-01	2.91E-01	3.53E-01	3.53E-01
7.0E+00	2.66E-04	3.48E-03	2.60E-02	3.03E-02	1.98E-01	2.10E-01	2.67E-01	2.67E-01
8.0E+00	1.13E-04	1.60E-03	1.91E-02	2.10E-02	1.43E-01	1.51E-01	2.03E-01	2.03E-01
1.0E+01	4.40E-05	4.04E-04	9.40E-03	1.02E-02	7.02E-02	7.62E-02	1.20E-01	1.20E-01
1.5E+01	3.60E-05	5.73E-05	1.68E-03	2.34E-03	1.37E-02	1.83E-02	4.23E-02	4.30E-02
2.0E+01	1.78E-05	2.01E-05	3.50E-04	6.90E-04	3.09E-03	5.49E-03	1.85E-02	1.80E-02
3.0E+01	3.80E-06	3.87E-06	2.85E-05	9.85E-05	2.90E-04	7.90E-04	4.39E-03	4.30E-03
4.0E+01	9.40E-07	9.45E-07	4.24E-06	2.20E-05	4.78E-05	1.78E-04	1.24E-03	1.20E-03
6.0E+01	1.08E-07	1.08E-07	2.70E-07	2.27E-06	3.59E-06	1.90E-05	1.65E-04	1.70E-04
1.0E+02	5.80E-09	5.80E-09	9.04E-09	1.21E-07	1.47E-07	9.87E-07	9.99E-06	9.90E-06
E[keV]:	0.00E+00	7.00E-04	3.72E-02	6.63E-02	5.16E-01	6.27E-01	5.47E+00	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1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
23 V
Σi Ji(Q)
Q

Z=24

Compton profiles for the single orbitals and binding energies

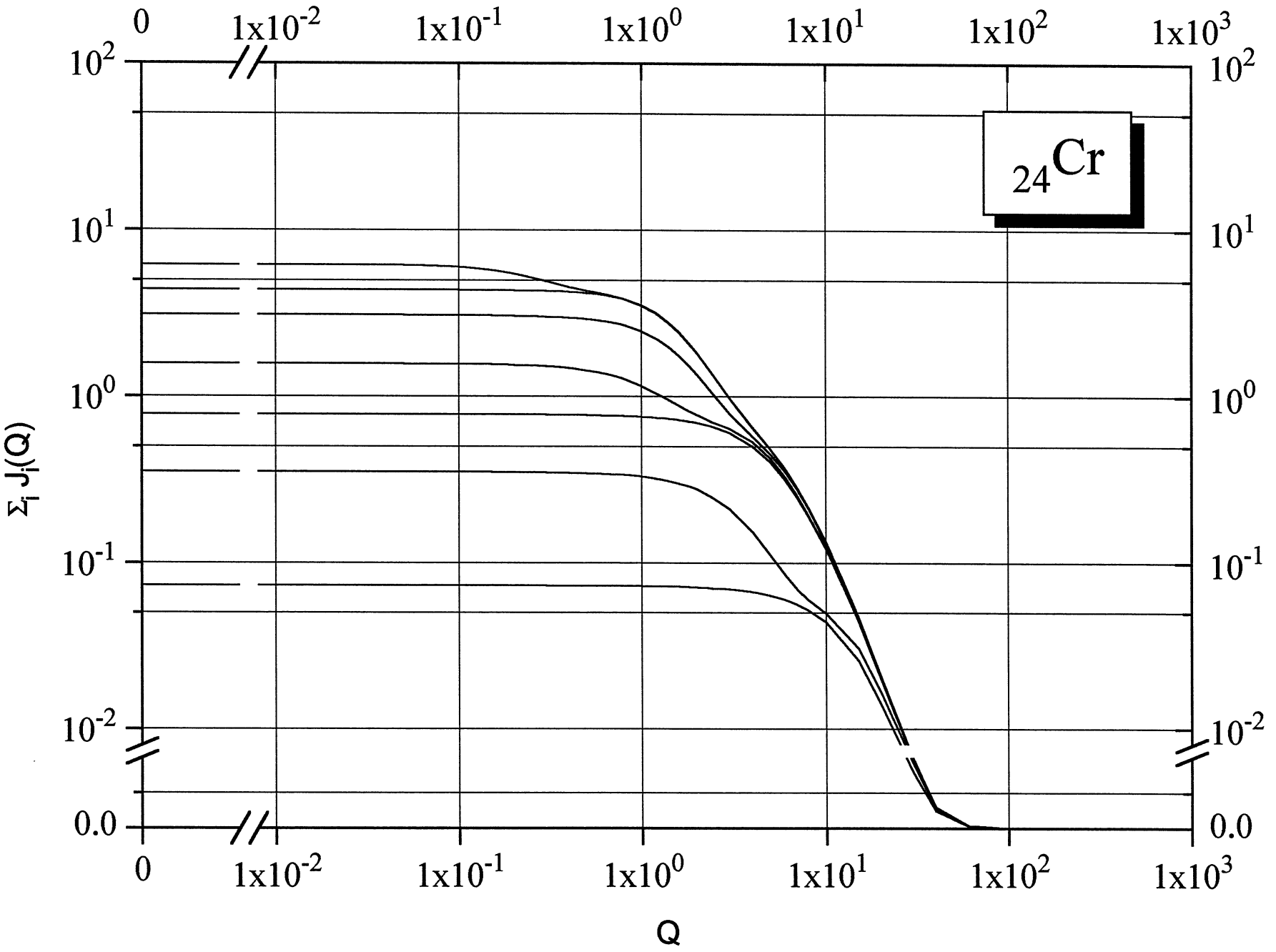
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(5)	3p+(1)	Total
0.0E+00	3.65E-02	1.40E-01	7.16E-02	3.98E-01	2.53E-01	2.61E-01	1.85E+00	6.25E+00
5.0E-02	3.65E-02	1.40E-01	7.16E-02	3.98E-01	2.53E-01	2.61E-01	1.79E+00	6.19E+00
1.0E-01	3.65E-02	1.40E-01	7.16E-02	3.95E-01	2.53E-01	2.61E-01	1.62E+00	6.02E+00
1.5E-01	3.65E-02	1.40E-01	7.16E-02	3.92E-01	2.52E-01	2.61E-01	1.38E+00	5.77E+00
2.0E-01	3.65E-02	1.39E-01	7.16E-02	3.87E-01	2.52E-01	2.61E-01	1.11E+00	5.49E+00
3.0E-01	3.65E-02	1.39E-01	7.16E-02	3.74E-01	2.52E-01	2.61E-01	6.11E-01	4.96E+00
4.0E-01	3.64E-02	1.38E-01	7.16E-02	3.56E-01	2.51E-01	2.60E-01	2.82E-01	4.58E+00
5.0E-01	3.64E-02	1.37E-01	7.16E-02	3.34E-01	2.49E-01	2.57E-01	1.17E-01	4.34E+00
6.0E-01	3.64E-02	1.36E-01	7.16E-02	3.10E-01	2.46E-01	2.51E-01	5.12E-02	4.18E+00
7.0E-01	3.64E-02	1.34E-01	7.16E-02	2.84E-01	2.42E-01	2.44E-01	3.13E-02	4.06E+00
8.0E-01	3.63E-02	1.33E-01	7.16E-02	2.56E-01	2.36E-01	2.34E-01	2.75E-02	3.99E+00
1.0E+00	3.63E-02	1.29E-01	7.15E-02	2.02E-01	2.20E-01	2.09E-01	2.67E-02	3.56E+00
1.2E+00	3.62E-02	1.25E-01	7.14E-02	1.52E-01	1.98E-01	1.83E-01	2.22E-02	3.18E+00
1.4E+00	3.61E-02	1.20E-01	7.12E-02	1.11E-01	1.73E-01	1.56E-01	1.61E-02	2.80E+00
1.6E+00	3.60E-02	1.14E-01	7.10E-02	7.82E-02	1.47E-01	1.33E-01	1.08E-02	2.44E+00
1.8E+00	3.58E-02	1.09E-01	7.06E-02	5.46E-02	1.21E-01	1.11E-01	6.84E-03	2.11E+00
2.0E+00	3.57E-02	1.03E-01	7.02E-02	3.85E-02	9.74E-02	9.33E-02	4.21E-03	1.83E+00
2.4E+00	3.53E-02	8.99E-02	6.89E-02	2.25E-02	5.94E-02	6.50E-02	1.63E-03	1.39E+00
3.0E+00	3.47E-02	7.09E-02	6.59E-02	1.77E-02	2.55E-02	3.76E-02	7.40E-04	9.84E-01
4.0E+00	3.34E-02	4.34E-02	5.84E-02	1.64E-02	6.73E-03	1.53E-02	6.73E-04	6.55E-01
5.0E+00	3.18E-02	2.41E-02	4.88E-02	1.11E-02	4.27E-03	6.46E-03	4.82E-04	4.85E-01
6.0E+00	3.00E-02	1.26E-02	3.88E-02	5.91E-03	4.20E-03	2.83E-03	2.61E-04	3.69E-01
7.0E+00	2.80E-02	6.63E-03	2.97E-02	2.74E-03	3.81E-03	1.29E-03	1.21E-04	2.82E-01
8.0E+00	2.60E-02	4.05E-03	2.21E-02	1.23E-03	3.12E-03	6.14E-04	5.33E-05	2.17E-01
1.0E+01	2.20E-02	2.90E-03	1.20E-02	4.30E-04	1.80E-03	1.60E-04	1.70E-05	1.30E-01
1.5E+01	1.30E-02	2.40E-03	2.30E-03	3.50E-04	3.30E-04	9.60E-06	1.30E-05	4.70E-02
2.0E+01	7.00E-03	1.30E-03	5.10E-04	1.90E-04	7.10E-05	1.00E-06	7.10E-06	2.00E-02
3.0E+01	2.00E-03	3.00E-04	4.20E-05	4.20E-05	5.50E-06	3.20E-08	1.60E-06	4.90E-03
4.0E+01	6.20E-04	7.80E-05	5.80E-06	1.10E-05	7.40E-07	2.40E-09	4.10E-07	1.50E-03
6.0E+01	8.80E-05	9.40E-06	3.00E-07	1.30E-06	3.70E-08	5.30E-11	4.80E-08	2.00E-04
1.0E+02	5.40E-06	5.30E-07	5.90E-09	7.00E-08	7.40E-10	3.10E-13	2.60E-09	1.20E-05
E[keV]:	5.99E+00	6.98E-01	5.79E-01	7.52E-02	4.31E-02	2.00E-03	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(5)	3p+(1)	Total
0.0E+00	7.30E-02	3.53E-01	7.83E-01	1.58E+00	3.10E+00	4.40E+00	6.25E+00	6.25E+00
5.0E-02	7.30E-02	3.53E-01	7.83E-01	1.58E+00	3.10E+00	4.40E+00	6.19E+00	6.19E+00
1.0E-01	7.30E-02	3.53E-01	7.83E-01	1.57E+00	3.09E+00	4.40E+00	6.02E+00	6.02E+00
1.5E-01	7.30E-02	3.53E-01	7.83E-01	1.57E+00	3.08E+00	4.38E+00	5.76E+00	5.77E+00
2.0E-01	7.30E-02	3.51E-01	7.81E-01	1.55E+00	3.07E+00	4.37E+00	5.48E+00	5.49E+00
3.0E-01	7.30E-02	3.51E-01	7.81E-01	1.53E+00	3.04E+00	4.35E+00	4.96E+00	4.96E+00
4.0E-01	7.28E-02	3.49E-01	7.78E-01	1.49E+00	3.00E+00	4.30E+00	4.58E+00	4.58E+00
5.0E-01	7.28E-02	3.47E-01	7.76E-01	1.44E+00	2.94E+00	4.22E+00	4.34E+00	4.34E+00
6.0E-01	7.28E-02	3.45E-01	7.74E-01	1.39E+00	2.87E+00	4.13E+00	4.18E+00	4.18E+00
7.0E-01	7.28E-02	3.41E-01	7.70E-01	1.34E+00	2.79E+00	4.01E+00	4.04E+00	4.04E+00
8.0E-01	7.26E-02	3.39E-01	7.68E-01	1.28E+00	2.70E+00	3.87E+00	3.89E+00	3.89E+00
1.0E+00	7.26E-02	3.31E-01	7.60E-01	1.16E+00	2.48E+00	3.53E+00	3.56E+00	3.56E+00
1.2E+00	7.24E-02	3.22E-01	7.51E-01	1.05E+00	2.24E+00	3.16E+00	3.18E+00	3.18E+00
1.4E+00	7.22E-02	3.12E-01	7.39E-01	9.61E-01	2.00E+00	2.78E+00	2.80E+00	2.80E+00
1.6E+00	7.20E-02	3.00E-01	7.26E-01	8.82E-01	1.76E+00	2.43E+00	2.44E+00	2.44E+00
1.8E+00	7.16E-02	2.90E-01	7.13E-01	8.22E-01	1.55E+00	2.10E+00	2.11E+00	2.11E+00
2.0E+00	7.14E-02	2.77E-01	6.99E-01	7.76E-01	1.36E+00	1.83E+00	1.83E+00	1.83E+00
2.4E+00	7.06E-02	2.50E-01	6.64E-01	7.09E-01	1.07E+00	1.39E+00	1.39E+00	1.39E+00
3.0E+00	6.94E-02	2.11E-01	6.07E-01	6.42E-01	7.95E-01	9.83E-01	9.84E-01	9.84E-01
4.0E+00	6.68E-02	1.54E-01	5.04E-01	5.37E-01	5.77E-01	6.54E-01	6.54E-01	6.55E-01
5.0E+00	6.36E-02	1.12E-01	4.05E-01	4.27E-01	4.52E-01	4.85E-01	4.85E-01	4.85E-01
6.0E+00	6.00E-02	8.52E-02	3.18E-01	3.30E-01	3.55E-01	3.69E-01	3.69E-01	3.69E-01
7.0E+00	5.60E-02	6.93E-02	2.47E-01	2.53E-01	2.76E-01	2.82E-01	2.82E-01	2.82E-01
8.0E+00	5.20E-02	6.01E-02	1.93E-01	1.95E-01	2.14E-01	2.17E-01	2.17E-01	2.17E-01
1.0E+01	4.40E-02	4.98E-02	1.22E-01	1.23E-01	1.33E-01	1.34E-01	1.34E-01	1.30E-01
1.5E+01	2.60E-02	3.08E-02	4.46E-02	4.53E-02	4.73E-02	4.73E-02	4.73E-02	4.70E-02
2.0E+01	1.40E-02	1.66E-02	1.97E-02	2.00E-02	2.05E-02	2.05E-02	2.05E-02	2.00E-02
3.0E+01	4.00E-03	4.60E-03	4.85E-03	4.94E-03	4.97E-03	4.97E-03	4.97E-03	4.90E-03
4.0E+01	1.24E-03	1.40E-03	1.43E-03	1.45E-03	1.46E-03	1.46E-03	1.46E-03	1.50E-03
6.0E+01	1.76E-04	1.95E-04	1.97E-04	1.99E-04	1.99E-04	1.99E-04	1.99E-04	2.00E-04
1.0E+02	1.08E-05	1.19E-05	1.19E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05
E[keV]:	5.99E+00	6.98E-01	5.79E-01	7.52E-02	4.31E-02	2.00E-03	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	1.85E+00	3.16E+00	4.67E+00	5.47E+00	5.90E+00	6.18E+00	6.25E+00	6.25E+00
5.0E-02	1.79E+00	3.10E+00	4.61E+00	5.41E+00	5.84E+00	6.12E+00	6.19E+00	6.19E+00
1.0E-01	1.62E+00	2.93E+00	4.44E+00	5.23E+00	5.66E+00	5.94E+00	6.02E+00	6.02E+00
1.5E-01	1.38E+00	2.69E+00	4.20E+00	4.98E+00	5.41E+00	5.69E+00	5.76E+00	5.77E+00
2.0E-01	1.11E+00	2.42E+00	3.93E+00	4.70E+00	5.13E+00	5.41E+00	5.48E+00	5.49E+00
3.0E-01	6.11E-01	1.92E+00	3.43E+00	4.18E+00	4.61E+00	4.88E+00	4.96E+00	4.96E+00
4.0E-01	2.82E-01	1.58E+00	3.09E+00	3.80E+00	4.23E+00	4.51E+00	4.58E+00	4.58E+00
5.0E-01	1.17E-01	1.40E+00	2.90E+00	3.56E+00	3.99E+00	4.27E+00	4.34E+00	4.34E+00
6.0E-01	5.12E-02	1.31E+00	2.78E+00	3.40E+00	3.83E+00	4.10E+00	4.18E+00	4.18E+00
7.0E-01	3.13E-02	1.25E+00	2.70E+00	3.27E+00	3.70E+00	3.97E+00	4.04E+00	4.04E+00
8.0E-01	2.75E-02	1.20E+00	2.61E+00	3.13E+00	3.56E+00	3.82E+00	3.89E+00	3.89E+00
1.0E+00	2.67E-02	1.07E+00	2.39E+00	2.80E+00	3.22E+00	3.48E+00	3.56E+00	3.56E+00
1.2E+00	2.22E-02	9.37E-01	2.13E+00	2.43E+00	2.86E+00	3.11E+00	3.18E+00	3.18E+00
1.4E+00	1.61E-02	7.96E-01	1.83E+00	2.06E+00	2.48E+00	2.72E+00	2.80E+00	2.80E+00
1.6E+00	1.08E-02	6.76E-01	1.56E+00	1.71E+00	2.14E+00	2.37E+00	2.44E+00	2.44E+00
1.8E+00	6.84E-03	5.62E-01	1.29E+00	1.40E+00	1.82E+00	2.04E+00	2.11E+00	2.11E+00
2.0E+00	4.21E-03	4.71E-01	1.06E+00	1.13E+00	1.55E+00	1.76E+00	1.83E+00	1.83E+00
2.4E+00	1.63E-03	3.27E-01	6.83E-01	7.28E-01	1.14E+00	1.32E+00	1.39E+00	1.39E+00
3.0E+00	7.40E-04	1.89E-01	3.42E-01	3.77E-01	7.73E-01	9.14E-01	9.84E-01	9.84E-01
4.0E+00	6.73E-04	7.72E-02	1.18E-01	1.50E-01	5.01E-01	5.88E-01	6.54E-01	6.55E-01
5.0E+00	4.82E-04	3.28E-02	5.84E-02	8.06E-02	3.73E-01	4.22E-01	4.85E-01	4.85E-01
6.0E+00	2.61E-04	1.44E-02	3.96E-02	5.14E-02	2.84E-01	3.09E-01	3.69E-01	3.69E-01
7.0E+00	1.21E-04	6.57E-03	2.94E-02	3.49E-02	2.13E-01	2.26E-01	2.82E-01	2.82E-01
8.0E+00	5.33E-05	3.12E-03	2.18E-02	2.43E-02	1.57E-01	1.65E-01	2.17E-01	2.17E-01
1.0E+01	1.70E-05	8.17E-04	1.16E-02	1.25E-02	8.45E-02	9.03E-02	1.34E-01	1.30E-01
1.5E+01	1.30E-05	6.10E-05	2.04E-03	2.74E-03	1.65E-02	2.13E-02	4.73E-02	4.70E-02
2.0E+01	7.10E-06	1.21E-05	4.38E-04	8.18E-04	3.88E-03	6.48E-03	2.05E-02	2.00E-02
3.0E+01	1.60E-06	1.76E-06	3.48E-05	1.19E-04	3.71E-04	9.71E-04	4.97E-03	4.90E-03
4.0E+01	4.10E-07	4.22E-07	4.86E-06	2.69E-05	6.17E-05	2.18E-04	1.46E-03	1.50E-03
6.0E+01	4.80E-08	4.83E-08	2.70E-07	2.87E-06	4.67E-06	2.35E-05	1.99E-04	2.00E-04
1.0E+02	2.60E-09	2.60E-09	7.04E-09	1.47E-07	1.82E-07	1.24E-06	1.20E-05	1.20E-05
E[keV]:	0.00E+00	2.00E-03	4.31E-02	7.52E-02	5.79E-01	6.98E-01	5.99E+00	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1x101
1x102
1x103
10²
10¹
10⁰
10-1
10-2
0.0
24Cr
Σi Ji(Q)
Q

Z=25

Compton profiles for the single orbitals and binding energies

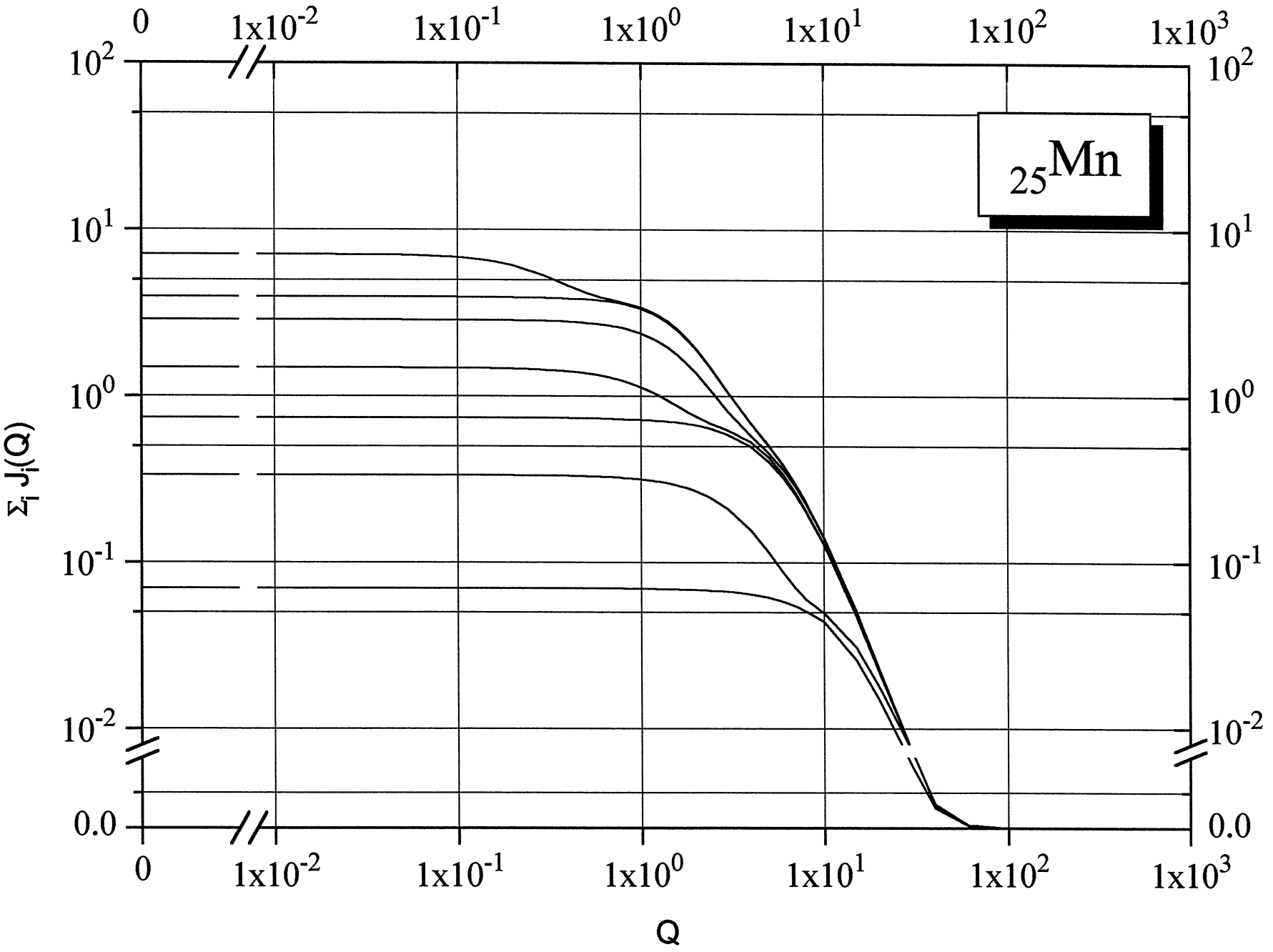
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(5)	3p+(2)	Total
0.0E+00	3.50E-02	1.33E-01	6.81E-02	3.73E-01	2.35E-01	2.15E-01	1.59E+00	7.16E+00
5.0E-02	3.50E-02	1.33E-01	6.81E-02	3.72E-01	2.35E-01	2.15E-01	1.55E+00	7.08E+00
1.0E-01	3.50E-02	1.33E-01	6.81E-02	3.70E-01	2.35E-01	2.15E-01	1.44E+00	6.85E+00
1.5E-01	3.50E-02	1.33E-01	6.81E-02	3.67E-01	2.35E-01	2.15E-01	1.27E+00	6.51E+00
2.0E-01	3.50E-02	1.33E-01	6.81E-02	3.64E-01	2.35E-01	2.15E-01	1.08E+00	6.11E+00
3.0E-01	3.50E-02	1.32E-01	6.81E-02	3.52E-01	2.35E-01	2.15E-01	6.77E-01	5.28E+00
4.0E-01	3.50E-02	1.32E-01	6.81E-02	3.38E-01	2.34E-01	2.14E-01	3.68E-01	4.63E+00
5.0E-01	3.49E-02	1.31E-01	6.81E-02	3.20E-01	2.33E-01	2.14E-01	1.80E-01	4.21E+00
6.0E-01	3.49E-02	1.30E-01	6.81E-02	2.99E-01	2.31E-01	2.12E-01	8.56E-02	3.95E+00
7.0E-01	3.49E-02	1.29E-01	6.81E-02	2.76E-01	2.28E-01	2.10E-01	4.58E-02	3.79E+00
8.0E-01	3.49E-02	1.27E-01	6.81E-02	2.53E-01	2.23E-01	2.06E-01	3.26E-02	3.67E+00
1.0E+00	3.48E-02	1.24E-01	6.81E-02	2.05E-01	2.11E-01	1.95E-01	2.96E-02	3.43E+00
1.2E+00	3.47E-02	1.20E-01	6.80E-02	1.59E-01	1.94E-01	1.80E-01	2.77E-02	3.15E+00
1.4E+00	3.46E-02	1.16E-01	6.78E-02	1.19E-01	1.73E-01	1.62E-01	2.25E-02	2.84E+00
1.6E+00	3.45E-02	1.11E-01	6.76E-02	8.70E-02	1.50E-01	1.44E-01	1.65E-02	2.52E+00
1.8E+00	3.44E-02	1.06E-01	6.74E-02	6.23E-02	1.27E-01	1.26E-01	1.12E-02	2.22E+00
2.0E+00	3.43E-02	1.00E-01	6.70E-02	4.45E-02	1.05E-01	1.09E-01	7.31E-03	1.95E+00
2.4E+00	3.40E-02	8.91E-02	6.60E-02	2.50E-02	6.80E-02	8.01E-02	2.92E-03	1.51E+00
3.0E+00	3.34E-02	7.17E-02	6.35E-02	1.75E-02	3.15E-02	4.93E-02	1.05E-03	1.06E+00
4.0E+00	3.22E-02	4.57E-02	5.72E-02	1.66E-02	8.37E-03	2.16E-02	8.63E-04	6.92E-01
5.0E+00	3.08E-02	2.65E-02	4.88E-02	1.23E-02	4.38E-03	9.59E-03	6.83E-04	5.07E-01
6.0E+00	2.92E-02	1.44E-02	3.97E-02	7.07E-03	4.17E-03	4.38E-03	4.05E-04	3.87E-01
7.0E+00	2.74E-02	7.71E-03	3.11E-02	3.52E-03	3.95E-03	2.07E-03	2.03E-04	2.98E-01
8.0E+00	2.55E-02	4.53E-03	2.36E-02	1.64E-03	3.38E-03	1.01E-03	9.30E-05	2.31E-01
1.0E+01	2.20E-02	2.90E-03	1.30E-02	4.90E-04	2.00E-03	2.70E-04	2.50E-05	1.40E-01
1.5E+01	1.30E-02	2.50E-03	2.70E-03	3.60E-04	4.20E-04	1.70E-05	1.80E-05	5.10E-02
2.0E+01	7.40E-03	1.40E-03	6.30E-04	2.10E-04	9.30E-05	1.90E-06	1.00E-05	2.20E-02
3.0E+01	2.20E-03	3.40E-04	5.40E-05	5.00E-05	7.50E-06	6.20E-08	2.40E-06	5.60E-03
4.0E+01	7.10E-04	9.30E-05	7.60E-06	1.30E-05	1.00E-06	4.60E-09	6.50E-07	1.70E-03
6.0E+01	1.00E-04	1.10E-05	4.00E-07	1.60E-06	5.20E-08	1.00E-10	7.70E-08	2.40E-04
1.0E+02	6.60E-06	6.50E-07	8.00E-09	8.90E-08	1.00E-09	8.20E-13	4.30E-09	1.50E-05
E[keV]:	6.54E+00	7.69E-01	6.43E-01	8.24E-02	4.73E-02	1.10E-03	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(5)	3p+(2)	Total
0.0E+00	7.00E-02	3.36E-01	7.45E-01	1.49E+00	2.90E+00	3.98E+00	7.16E+00	7.16E+00
5.0E-02	7.00E-02	3.36E-01	7.45E-01	1.49E+00	2.90E+00	3.97E+00	7.07E+00	7.08E+00
1.0E-01	7.00E-02	3.36E-01	7.45E-01	1.48E+00	2.89E+00	3.97E+00	6.85E+00	6.85E+00
1.5E-01	7.00E-02	3.36E-01	7.45E-01	1.48E+00	2.89E+00	3.96E+00	6.50E+00	6.51E+00
2.0E-01	7.00E-02	3.36E-01	7.45E-01	1.47E+00	2.88E+00	3.96E+00	6.12E+00	6.11E+00
3.0E-01	7.00E-02	3.34E-01	7.43E-01	1.45E+00	2.86E+00	3.93E+00	5.29E+00	5.28E+00
4.0E-01	7.00E-02	3.34E-01	7.43E-01	1.42E+00	2.82E+00	3.89E+00	4.63E+00	4.63E+00
5.0E-01	6.98E-02	3.32E-01	7.40E-01	1.38E+00	2.78E+00	3.85E+00	4.21E+00	4.21E+00
6.0E-01	6.98E-02	3.30E-01	7.38E-01	1.34E+00	2.72E+00	3.78E+00	3.95E+00	3.95E+00
7.0E-01	6.98E-02	3.28E-01	7.36E-01	1.29E+00	2.66E+00	3.71E+00	3.80E+00	3.79E+00
8.0E-01	6.98E-02	3.24E-01	7.32E-01	1.24E+00	2.58E+00	3.61E+00	3.67E+00	3.67E+00
1.0E+00	6.96E-02	3.18E-01	7.26E-01	1.14E+00	2.40E+00	3.38E+00	3.44E+00	3.43E+00
1.2E+00	6.94E-02	3.09E-01	7.17E-01	1.04E+00	2.20E+00	3.10E+00	3.15E+00	3.15E+00
1.4E+00	6.92E-02	3.01E-01	7.08E-01	1.98E+00	2.79E+00	2.84E+00	2.84E+00	2.84E+00
1.6E+00	6.90E-02	2.91E-01	6.97E-01	8.71E-01	1.77E+00	2.49E+00	2.52E+00	2.52E+00
1.8E+00	6.88E-02	2.81E-01	6.85E-01	8.10E-01	1.57E+00	2.20E+00	2.22E+00	2.22E+00
2.0E+00	6.86E-02	2.69E-01	6.71E-01	7.60E-01	1.39E+00	1.93E+00	1.95E+00	1.95E+00
2.4E+00	6.80E-02	2.46E-01	6.42E-01	6.92E-01	1.10E+00	1.50E+00	1.51E+00	1.51E+00
3.0E+00	6.68E-02	2.10E-01	5.91E-01	6.26E-01	8.15E-01	1.06E+00	1.06E+00	1.06E+00
4.0E+00	6.44E-02	1.56E-01	4.99E-01	5.32E-01	5.82E-01	6.90E-01	6.92E-01	6.92E-01
5.0E+00	6.16E-02	1.15E-01	4.07E-01	4.32E-01	4.58E-01	5.06E-01	5.08E-01	5.07E-01
6.0E+00	5.84E-02	8.72E-02	3.25E-01	3.40E-01	3.65E-01	3.86E-01	3.87E-01	3.87E-01
7.0E+00	5.48E-02	7.02E-02	2.57E-01	2.64E-01	2.88E-01	2.98E-01	2.98E-01	2.98E-01
8.0E+00	5.10E-02	6.01E-02	2.02E-01	2.05E-01	2.25E-01	2.30E-01	2.30E-01	2.31E-01
1.0E+01	4.40E-02	4.98E-02	1.28E-01	1.29E-01	1.41E-01	1.42E-01	1.42E-01	1.40E-01
1.5E+01	2.60E-02	3.10E-02	4.72E-02	4.79E-02	5.04E-02	5.05E-02	5.06E-02	5.10E-02
2.0E+01	1.48E-02	1.76E-02	2.14E-02	2.18E-02	2.24E-02	2.24E-02	2.24E-02	2.20E-02
3.0E+01	4.40E-03	5.08E-03	5.40E-03	5.50E-03	5.55E-03	5.55E-03	5.55E-03	5.60E-03
4.0E+01	1.42E-03	1.61E-03	1.65E-03	1.68E-03	1.68E-03	1.68E-03	1.68E-03	1.70E-03
6.0E+01	2.00E-04	2.22E-04	2.24E-04	2.28E-04	2.28E-04	2.28E-04	2.28E-04	2.40E-04
1.0E+02	1.32E-05	1.45E-05	1.45E-05	1.47E-05	1.47E-05	1.47E-05	1.47E-05	1.50E-05
E[keV]:	6.54E+00	7.69E-01	6.43E-01	8.24E-02	4.73E-02	1.10E-03	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	3.18E+00	4.25E+00	5.67E+00	6.41E+00	6.82E+00	7.09E+00	7.16E+00	7.16E+00
5.0E-02	3.10E+00	4.17E+00	5.58E+00	6.33E+00	6.74E+00	7.00E+00	7.07E+00	7.08E+00
1.0E-01	2.88E+00	3.96E+00	5.37E+00	6.11E+00	6.51E+00	6.78E+00	6.85E+00	6.85E+00
1.5E-01	2.54E+00	3.62E+00	5.03E+00	5.76E+00	6.17E+00	6.43E+00	6.50E+00	6.51E+00
2.0E-01	2.16E+00	3.24E+00	4.65E+00	5.37E+00	5.78E+00	6.05E+00	6.12E+00	6.11E+00
3.0E-01	1.35E+00	2.43E+00	3.84E+00	4.54E+00	4.95E+00	5.22E+00	5.29E+00	5.28E+00
4.0E-01	7.36E-01	1.81E+00	3.21E+00	3.89E+00	4.29E+00	4.56E+00	4.63E+00	4.63E+00
5.0E-01	3.60E-01	1.43E+00	2.83E+00	3.47E+00	3.88E+00	4.14E+00	4.21E+00	4.21E+00
6.0E-01	1.71E-01	1.23E+00	2.62E+00	3.22E+00	3.62E+00	3.88E+00	3.95E+00	3.95E+00
7.0E-01	9.16E-02	1.14E+00	2.51E+00	3.06E+00	3.47E+00	3.73E+00	3.80E+00	3.79E+00
8.0E-01	6.52E-02	1.10E+00	2.43E+00	2.94E+00	3.35E+00	3.60E+00	3.67E+00	3.67E+00
1.0E+00	5.92E-02	1.03E+00	2.30E+00	2.71E+00	3.12E+00	3.37E+00	3.44E+00	3.43E+00
1.2E+00	5.54E-02	9.55E-01	2.12E+00	2.44E+00	2.85E+00	3.09E+00	3.15E+00	3.15E+00
1.4E+00	4.50E-02	8.55E-01	1.89E+00	2.13E+00	2.54E+00	2.77E+00	2.84E+00	2.84E+00
1.6E+00	3.30E-02	7.53E-01	1.65E+00	1.83E+00	2.23E+00	2.45E+00	2.52E+00	2.52E+00
1.8E+00	2.24E-02	6.52E-01	1.41E+00	1.54E+00	1.94E+00	2.16E+00	2.22E+00	2.22E+00
2.0E+00	1.46E-02	5.60E-01	1.19E+00	1.28E+00	1.68E+00	1.88E+00	1.95E+00	1.95E+00
2.4E+00	5.84E-03	4.06E-01	8.14E-01	8.64E-01	1.26E+00	1.44E+00	1.51E+00	1.51E+00
3.0E+00	2.10E-03	2.49E-01	4.38E-01	4.73E-01	8.54E-01	9.97E-01	1.06E+00	1.06E+00
4.0E+00	1.73E-03	1.10E-01	1.60E-01	1.93E-01	5.36E-01	6.28E-01	6.92E-01	6.92E-01
5.0E+00	1.37E-03	4.93E-02	7.56E-02	1.00E-01	3.93E-01	4.46E-01	5.08E-01	5.07E-01
6.0E+00	8.10E-04	2.27E-02	4.77E-02	6.19E-02	3.00E-01	3.29E-01	3.87E-01	3.87E-01
7.0E+00	4.06E-04	1.08E-02	3.45E-02	4.15E-02	2.29E-01	2.44E-01	2.98E-01	2.98E-01
8.0E+00	1.86E-04	5.24E-03	2.55E-02	2.88E-02	1.70E-01	1.79E-01	2.30E-01	2.31E-01
1.0E+01	5.00E-05	1.40E-03	1.34E-02	1.44E-02	9.24E-02	9.82E-02	1.42E-01	1.40E-01
1.5E+01	3.60E-05	1.21E-04	2.64E-03	3.36E-03	1.96E-02	2.46E-02	5.06E-02	5.10E-02
2.0E+01	2.00E-05	2.95E-05	5.88E-04	1.01E-03	4.79E-03	7.59E-03	2.24E-02	2.20E-02
3.0E+01	4.80E-06	5.11E-06	5.01E-05	1.50E-04	4.74E-04	1.15E-03	5.55E-03	5.60E-03
4.0E+01	1.30E-06	1.32E-06	7.32E-06	3.33E-05	7.89E-05	2.65E-04	1.68E-03	1.70E-03
6.0E+01	1.54E-07	1.55E-07	4.67E-07	3.67E-06	6.07E-06	2.81E-05	2.28E-04	2.40E-04
1.0E+02	8.60E-09	8.60E-09	1.46E-08	1.93E-07	2.41E-07	1.54E-06	1.47E-05	1.50E-05
E[keV]:	0.00E+00	1.10E-03	4.73E-02	8.24E-02	6.43E-01	7.69E-01	6.54E+00	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1x10^2
1x10^3
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10^1
10^0
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10^-2
0.0
25Mn
Σ_i J_i(Q)
Q

Z=26

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(6)	3p+(2)	Total
0.0E+00	3.36E-02	1.27E-01	6.50E-02	3.55E-01	2.23E-01	2.01E-01	1.55E+00	7.06E+00
5.0E-02	3.36E-02	1.27E-01	6.50E-02	3.54E-01	2.23E-01	2.01E-01	1.51E+00	6.99E+00
1.0E-01	3.36E-02	1.27E-01	6.50E-02	3.53E-01	2.23E-01	2.01E-01	1.41E+00	6.78E+00
1.5E-01	3.36E-02	1.27E-01	6.50E-02	3.50E-01	2.23E-01	2.01E-01	1.25E+00	6.47E+00
2.0E-01	3.36E-02	1.27E-01	6.50E-02	3.47E-01	2.23E-01	2.01E-01	1.07E+00	6.09E+00
3.0E-01	3.36E-02	1.27E-01	6.50E-02	3.37E-01	2.23E-01	2.01E-01	6.90E-01	5.31E+00
4.0E-01	3.36E-02	1.26E-01	6.50E-02	3.24E-01	2.22E-01	2.01E-01	3.87E-01	4.67E+00
5.0E-01	3.36E-02	1.25E-01	6.50E-02	3.09E-01	2.21E-01	2.00E-01	1.96E-01	4.25E+00
6.0E-01	3.35E-02	1.24E-01	6.50E-02	2.90E-01	2.20E-01	1.99E-01	9.46E-02	3.99E+00
7.0E-01	3.35E-02	1.23E-01	6.50E-02	2.70E-01	2.17E-01	1.97E-01	4.92E-02	3.83E+00
8.0E-01	3.35E-02	1.22E-01	6.50E-02	2.49E-01	2.14E-01	1.95E-01	3.24E-02	3.71E+00
1.0E+00	3.34E-02	1.19E-01	6.49E-02	2.05E-01	2.03E-01	1.86E-01	2.73E-02	3.50E+00
1.2E+00	3.34E-02	1.16E-01	6.49E-02	1.63E-01	1.89E-01	1.74E-01	2.64E-02	3.24E+00
1.4E+00	3.32E-02	1.12E-01	6.48E-02	1.25E-01	1.71E-01	1.59E-01	2.24E-02	2.96E+00
1.6E+00	3.32E-02	1.08E-01	6.46E-02	9.35E-02	1.51E-01	1.43E-01	1.71E-02	2.66E+00
1.8E+00	3.31E-02	1.03E-01	6.44E-02	6.84E-02	1.31E-01	1.27E-01	1.21E-02	2.37E+00
2.0E+00	3.30E-02	9.83E-02	6.41E-02	4.96E-02	1.10E-01	1.12E-01	8.15E-03	2.09E+00
2.4E+00	3.27E-02	8.80E-02	6.32E-02	2.75E-02	7.43E-02	8.45E-02	3.43E-03	1.64E+00
3.0E+00	3.22E-02	7.21E-02	6.12E-02	1.73E-02	3.67E-02	5.41E-02	1.13E-03	1.16E+00
4.0E+00	3.12E-02	4.76E-02	5.59E-02	1.63E-02	1.02E-02	2.50E-02	8.00E-04	7.38E-01
5.0E+00	2.99E-02	2.87E-02	4.85E-02	1.30E-02	4.54E-03	1.17E-02	6.86E-04	5.33E-01
6.0E+00	2.84E-02	1.62E-02	4.03E-02	8.06E-03	4.03E-03	5.53E-03	4.42E-04	4.05E-01
7.0E+00	2.68E-02	8.88E-03	3.22E-02	4.29E-03	3.94E-03	2.70E-03	2.37E-04	3.14E-01
8.0E+00	2.51E-02	5.13E-03	2.50E-02	2.09E-03	3.51E-03	1.36E-03	1.15E-04	2.44E-01
1.0E+01	2.20E-02	2.90E-03	1.40E-02	5.70E-04	2.30E-03	3.80E-04	2.90E-05	1.50E-01
1.5E+01	1.40E-02	2.50E-03	5.10E-04	2.50E-05	1.70E-05	5.50E-02		
2.0E+01	7.80E-03	1.50E-03	7.70E-04	2.30E-04	1.20E-04	2.90E-06	1.10E-05	2.50E-02
3.0E+01	2.40E-03	3.90E-04	6.90E-05	5.90E-05	9.90E-06	9.60E-08	2.70E-06	6.30E-03
4.0E+01	8.10E-04	1.10E-04	9.90E-06	1.60E-05	1.40E-06	7.20E-09	7.50E-07	1.90E-03
6.0E+01	1.20E-04	1.40E-05	5.30E-07	2.00E-06	7.10E-08	1.60E-10	9.10E-08	2.80E-04
1.0E+02	7.90E-06	7.90E-07	1.10E-08	1.10E-07	1.40E-09	1.30E-12	5.10E-09	1.80E-05

E[keV]:	7.11E+00	8.48E-01	7.12E-01	9.16E-02	5.30E-02	8.00E-04	0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

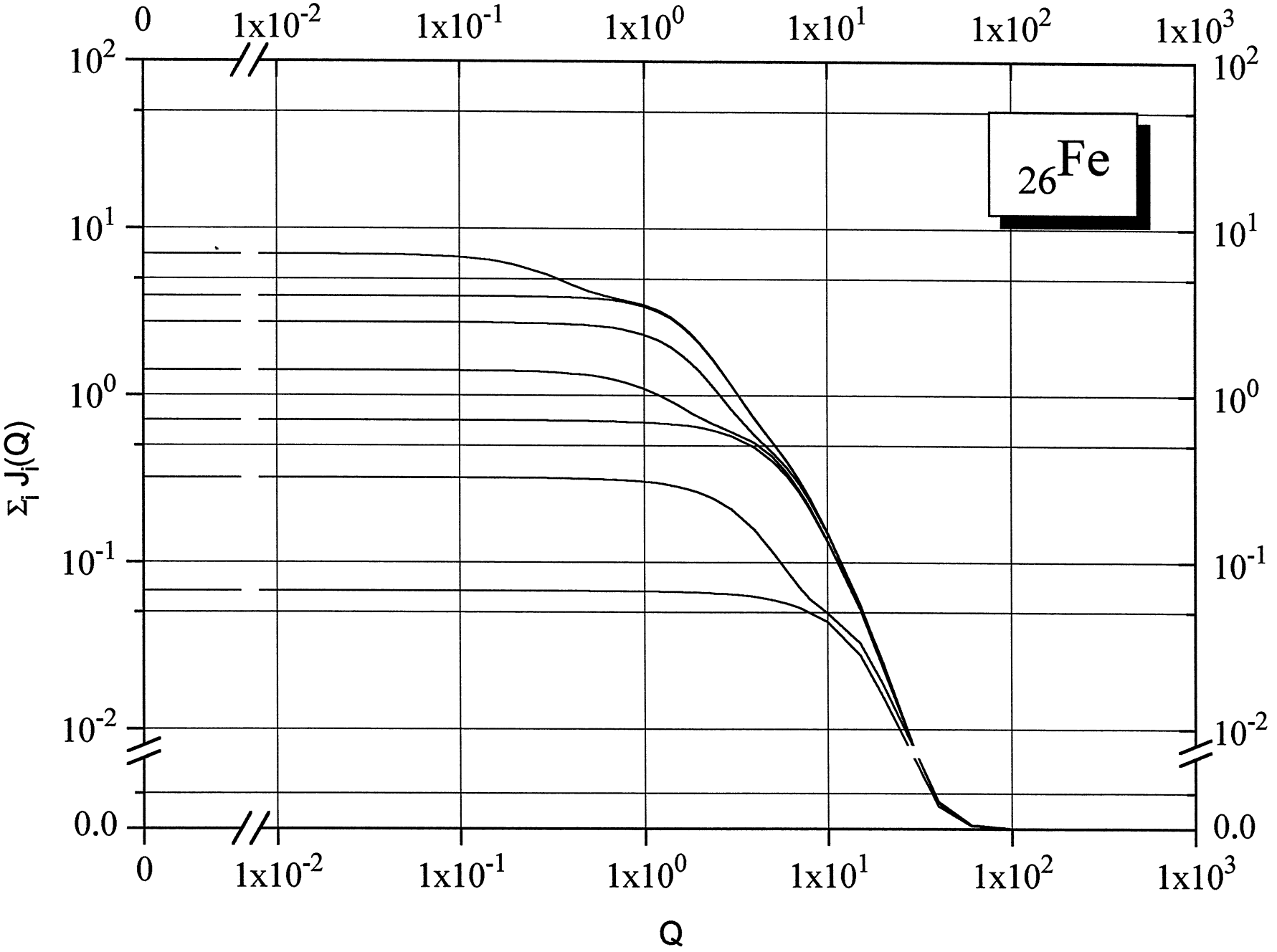
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(6)	3p+(2)	Total
0.0E+00	6.72E-02	3.21E-01	7.11E-01	1.42E+00	2.76E+00	3.97E+00	7.07E+00	7.06E+00
5.0E-02	6.72E-02	3.21E-01	7.11E-01	1.42E+00	2.76E+00	3.96E+00	6.98E+00	6.99E+00
1.0E-01	6.72E-02	3.21E-01	7.11E-01	1.42E+00	2.76E+00	3.96E+00	6.78E+00	6.78E+00
1.5E-01	6.72E-02	3.21E-01	7.11E-01	1.41E+00	2.75E+00	3.96E+00	6.46E+00	6.47E+00
2.0E-01	6.72E-02	3.21E-01	7.11E-01	1.41E+00	2.74E+00	3.95E+00	6.09E+00	6.09E+00
3.0E-01	6.72E-02	3.21E-01	7.11E-01	1.39E+00	2.72E+00	3.93E+00	5.31E+00	5.31E+00
4.0E-01	6.72E-02	3.19E-01	7.09E-01	1.36E+00	2.69E+00	3.90E+00	4.67E+00	4.67E+00
5.0E-01	6.72E-02	3.17E-01	7.07E-01	1.33E+00	2.65E+00	3.85E+00	4.24E+00	4.25E+00
6.0E-01	6.70E-02	3.15E-01	7.05E-01	1.29E+00	2.61E+00	3.80E+00	3.99E+00	3.99E+00
7.0E-01	6.70E-02	3.13E-01	7.03E-01	1.24E+00	2.55E+00	3.73E+00	3.83E+00	3.83E+00
8.0E-01	6.70E-02	3.11E-01	7.01E-01	1.20E+00	2.48E+00	3.65E+00	3.72E+00	3.71E+00
1.0E+00	6.68E-02	3.05E-01	6.94E-01	1.10E+00	2.32E+00	3.44E+00	3.49E+00	3.50E+00
1.2E+00	6.68E-02	2.99E-01	6.88E-01	1.01E+00	2.15E+00	3.19E+00	3.25E+00	3.24E+00
1.4E+00	6.66E-02	2.91E-01	6.79E-01	9.29E-01	1.96E+00	2.91E+00	2.95E+00	2.96E+00
1.6E+00	6.64E-02	2.82E-01	6.70E-01	8.57E-01	1.76E+00	2.62E+00	2.66E+00	2.66E+00
1.8E+00	6.62E-02	2.72E-01	6.59E-01	7.95E-01	1.58E+00	2.34E+00	2.37E+00	2.37E+00
2.0E+00	6.60E-02	2.63E-01	6.47E-01	7.46E-01	1.41E+00	2.08E+00	2.09E+00	2.09E+00
2.4E+00	6.54E-02	2.41E-01	6.21E-01	6.76E-01	1.12E+00	1.63E+00	1.64E+00	1.64E+00
3.0E+00	6.44E-02	2.09E-01	5.76E-01	6.10E-01	8.31E-01	1.16E+00	1.16E+00	1.16E+00
4.0E+00	6.24E-02	1.58E-01	4.93E-01	5.26E-01	5.87E-01	7.37E-01	7.38E-01	7.38E-01
5.0E+00	5.98E-02	1.17E-01	4.08E-01	4.34E-01	4.61E-01	5.32E-01	5.33E-01	5.33E-01
6.0E+00	5.68E-02	8.92E-02	3.31E-01	3.47E-01	3.71E-01	4.04E-01	4.05E-01	4.05E-01
7.0E+00	5.36E-02	7.14E-02	2.65E-01	2.73E-01	2.97E-01	3.13E-01	3.13E-01	3.14E-01
8.0E+00	5.02E-02	6.05E-02	2.10E-01	2.15E-01	2.36E-01	2.44E-01	2.44E-01	2.44E-01
1.0E+01	4.40E-02	4.98E-02	1.34E-01	1.35E-01	1.49E-01	1.51E-01	1.51E-01	1.50E-01
1.5E+01	2.80E-02	3.30E-02	5.22E-02	5.29E-02	5.60E-02	5.62E-02	5.62E-02	5.50E-02
2.0E+01	1.56E-02	1.86E-02	2.32E-02	2.37E-02	2.44E-02	2.44E-02	2.44E-02	2.50E-02
3.0E+01	4.80E-03	5.58E-03	5.99E-03	6.11E-03	6.17E-03	6.17E-03	6.18E-03	6.30E-03
4.0E+01	1.62E-03	1.84E-03	1.90E-03	1.93E-03	1.94E-03	1.94E-03	1.94E-03	1.90E-03
6.0E+01	2.40E-04	2.68E-04	2.71E-04	2.75E-04	2.76E-04	2.76E-04	2.76E-04	2.80E-04
1.0E+02	1.58E-05	1.74E-05	1.74E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.80E-05

E[keV]:	7.11E+00	8.48E-01	7.12E-01	9.16E-02	5.30E-02	8.00E-04	0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	3.10E+00	4.31E+00	5.64E+00	6.35E+00	6.74E+00	7.00E+00	7.07E+00	7.06E+00
5.0E-02	3.02E+00	4.23E+00	5.56E+00	6.27E+00	6.66E+00	6.92E+00	6.98E+00	6.99E+00
1.0E-01	2.82E+00	4.03E+00	5.36E+00	6.07E+00	6.46E+00	6.71E+00	6.78E+00	6.78E+00
1.5E-01	2.50E+00	3.71E+00	5.04E+00	5.74E+00	6.13E+00	6.39E+00	6.46E+00	6.47E+00
2.0E-01	2.14E+00	3.35E+00	4.68E+00	5.38E+00	5.77E+00	6.02E+00	6.09E+00	6.09E+00
3.0E-01	1.38E+00	2.59E+00	3.92E+00	4.60E+00	4.99E+00	5.24E+00	5.31E+00	5.31E+00
4.0E-01	7.74E-01	1.98E+00	3.31E+00	3.96E+00	4.35E+00	4.60E+00	4.67E+00	4.67E+00
5.0E-01	3.92E-01	1.59E+00	2.92E+00	3.54E+00	3.93E+00	4.18E+00	4.24E+00	4.25E+00
6.0E-01	1.89E-01	1.38E+00	2.70E+00	3.27E+00	3.62E+00	3.92E+00	3.99E+00	3.99E+00
7.0E-01	9.84E-02	1.28E+00	2.58E+00	3.12E+00	3.51E+00	3.76E+00	3.83E+00	3.83E+00
8.0E-01	6.48E-02	1.23E+00	2.52E+00	3.02E+00	3.41E+00	3.65E+00	3.72E+00	3.71E+00
1.0E+00	5.46E-02	1.17E+00	2.39E+00	2.80E+00	3.19E+00	3.43E+00	3.49E+00	3.50E+00
1.2E+00	5.28E-02	1.10E+00	2.23E+00	2.56E+00	2.95E+00	3.18E+00	3.25E+00	3.24E+00
1.4E+00	4.48E-02	9.99E-01	2.02E+00	2.27E+00	2.66E+00	2.89E+00	2.95E+00	2.96E+00
1.6E+00	3.42E-02	8.92E-01	1.80E+00	1.99E+00	2.37E+00	2.59E+00	2.66E+00	2.66E+00
1.8E+00	2.42E-02	7.86E-01	1.57E+00	1.71E+00	2.10E+00	2.30E+00	2.37E+00	2.37E+00
2.0E+00	1.63E-02	6.88E-01	1.35E+00	1.45E+00	1.83E+00	2.03E+00	2.09E+00	2.09E+00
2.4E+00	6.86E-03	5.14E-01	9.60E-01	1.01E+00	1.39E+00	1.57E+00	1.64E+00	1.64E+00
3.0E+00	2.26E-03	3.27E-01	5.47E-01	5.82E-01	9.49E-01	1.09E+00	1.16E+00	1.16E+00
4.0E+00	1.60E-03	1.52E-01	2.13E-01	2.45E-01	5.81E-01	6.76E-01	7.38E-01	7.38E-01
5.0E+00	1.37E-03	7.16E-02	9.88E-02	1.25E-01	4.16E-01	4.73E-01	5.33E-01	5.33E-01
6.0E+00	8.84E-04	3.41E-02	5.82E-02	7.44E-02	3.16E-01	3.49E-01	4.05E-01	4.05E-01
7.0E+00	4.74E-04	1.67E-02	4.03E-02	4.89E-02	2.42E-01	2.60E-01	3.13E-01	3.14E-01
8.0E+00	2.30E-04	8.39E-03	2.95E-02	3.36E-02	1.84E-01	1.94E-01	2.44E-01	2.44E-01
1.0E+01	5.80E-05	2.34E-03	1.61E-02	1.73E-02	1.01E-01	1.07E-01	1.51E-01	1.50E-01
1.5E+01	3.40E-05	1.84E-04	3.24E-03	3.98E-03	2.32E-02	2.82E-02	5.62E-02	5.50E-02
2.0E+01	2.20E-05	3.94E-05	7.59E-04	1.22E-03	5.84E-03	8.84E-03	2.44E-02	2.50E-02
3.0E+01	5.40E-06	5.98E-06	6.54E-05	1.83E-04	5.97E-04	1.38E-03	6.18E-03	6.30E-03
4.0E+01	1.50E-06	1.54E-06	9.94E-06	4.19E-05	1.01E-04	3.21E-04	1.94E-03	1.90E-03
6.0E+01	1.82E-07	1.83E-07	6.09E-07	4.61E-06	7.79E-06	3.58E-05	2.76E-04	2.80E-04
1.0E+02	1.02E-08	1.02E-08	1.86E-08	2.39E-07	3.05E-07	1.88E-06	1.77E-05	1.80E-05

E[keV]:	0.00E+00	8.00E-04	5.30E-02	9.16E-02	7.12E-01	8.48E-01	7.11E+00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10^1
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10^-1
10^-2
0.0
26Fe
Σ_i J_i(Q)
Q

Z=27

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(7)	3p+(2)	Total
0.0E+00	3.23E-02	1.22E-01	6.21E-02	3.39E-01	2.12E-01	1.90E-01	1.51E+00	6.98E+00
5.0E-02	3.23E-02	1.22E-01	6.21E-02	3.39E-01	2.12E-01	1.90E-01	1.48E+00	6.91E+00
1.0E-01	3.23E-02	1.22E-01	6.21E-02	3.37E-01	2.12E-01	1.90E-01	1.38E+00	6.72E+00
1.5E-01	3.23E-02	1.22E-01	6.21E-02	3.35E-01	2.12E-01	1.90E-01	1.24E+00	6.42E+00
2.0E-01	3.23E-02	1.22E-01	6.21E-02	3.32E-01	2.12E-01	1.90E-01	1.06E+00	6.07E+00
3.0E-01	3.23E-02	1.21E-01	6.21E-02	3.24E-01	2.12E-01	1.89E-01	7.00E-01	5.33E+00
4.0E-01	3.23E-02	1.21E-01	6.21E-02	3.12E-01	2.12E-01	1.89E-01	4.04E-01	4.71E+00
5.0E-01	3.23E-02	1.20E-01	6.21E-02	2.98E-01	2.11E-01	1.89E-01	2.11E-01	4.28E+00
6.0E-01	3.23E-02	1.19E-01	6.21E-02	2.82E-01	2.09E-01	1.88E-01	1.04E-01	4.02E+00
7.0E-01	3.23E-02	1.18E-01	6.21E-02	2.64E-01	2.07E-01	1.87E-01	5.33E-02	3.86E+00
8.0E-01	3.22E-02	1.17E-01	6.21E-02	2.45E-01	2.05E-01	1.85E-01	3.30E-02	3.75E+00
1.0E+00	3.22E-02	1.15E-01	6.21E-02	2.05E-01	1.96E-01	1.78E-01	2.54E-02	3.55E+00
1.2E+00	3.21E-02	1.12E-01	6.20E-02	1.66E-01	1.84E-01	1.68E-01	2.49E-02	3.32E+00
1.4E+00	3.21E-02	1.08E-01	6.19E-02	1.30E-01	1.69E-01	1.55E-01	2.20E-02	3.06E+00
1.6E+00	3.20E-02	1.05E-01	6.18E-02	9.92E-02	1.51E-01	1.41E-01	1.74E-02	2.78E+00
1.8E+00	3.19E-02	1.01E-01	6.16E-02	7.41E-02	1.33E-01	1.27E-01	1.28E-02	2.50E+00
2.0E+00	3.18E-02	9.61E-02	6.14E-02	5.46E-02	1.14E-01	1.13E-01	8.90E-03	2.23E+00
2.4E+00	3.15E-02	8.68E-02	6.07E-02	3.03E-02	7.97E-02	8.79E-02	3.96E-03	1.76E+00
3.0E+00	3.11E-02	7.22E-02	5.90E-02	1.75E-02	4.17E-02	5.82E-02	1.25E-03	1.26E+00
4.0E+00	3.01E-02	4.92E-02	5.45E-02	1.58E-02	1.23E-02	2.83E-02	7.40E-04	7.91E-01
5.0E+00	2.90E-02	3.08E-02	4.81E-02	1.34E-02	4.89E-03	1.38E-02	6.75E-04	5.62E-01
6.0E+00	2.77E-02	1.80E-02	4.06E-02	8.95E-03	3.91E-03	6.78E-03	4.69E-04	4.25E-01
7.0E+00	2.62E-02	1.01E-02	3.31E-02	5.07E-03	3.87E-03	3.41E-03	2.69E-04	3.29E-01
8.0E+00	2.47E-02	5.85E-03	2.62E-02	2.60E-03	3.58E-03	1.76E-03	1.38E-04	2.58E-01
1.0E+01	2.10E-02	2.90E-03	1.60E-02	6.90E-04	2.50E-03	5.10E-04	3.50E-05	1.60E-01
1.5E+01	1.40E-02	2.50E-03	3.70E-03	3.70E-04	6.10E-04	3.60E-05	1.60E-05	6.00E-02
2.0E+01	8.20E-03	1.60E-03	9.40E-04	2.50E-04	1.50E-04	4.20E-06	1.10E-05	2.70E-02
3.0E+01	2.70E-03	4.50E-04	8.70E-05	6.80E-05	1.30E-05	1.40E-07	3.10E-06	7.00E-03
4.0E+01	9.10E-04	1.30E-04	1.30E-05	1.90E-05	1.80E-06	1.10E-08	8.50E-07	2.20E-03
6.0E+01	1.40E-04	1.70E-05	6.90E-07	2.40E-06	9.40E-08	2.50E-10	1.10E-07	3.30E-04
1.0E+02	9.40E-06	9.60E-07	1.40E-08	1.30E-07	1.90E-09	1.70E-12	6.00E-09	2.10E-05

E[keV]:	7.71E+00	9.27E-01	7.86E-01	1.01E-01	5.94E-02	4.00E-04	0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

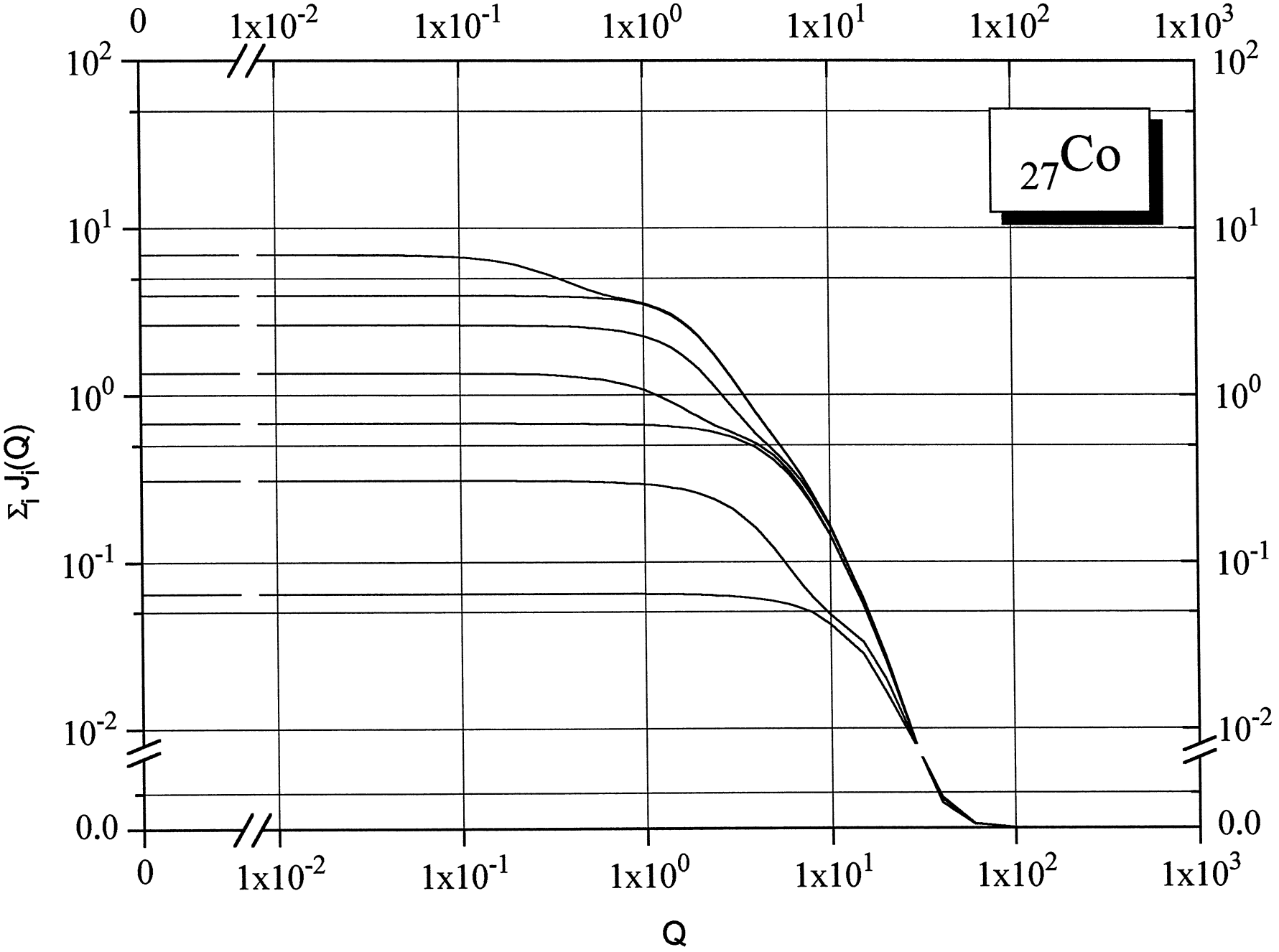
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(7)	3p+(2)	Total
0.0E+00	6.46E-02	3.09E-01	6.81E-01	1.36E+00	2.63E+00	3.96E+00	6.98E+00	6.98E+00
5.0E-02	6.46E-02	3.09E-01	6.81E-01	1.36E+00	2.63E+00	3.96E+00	6.92E+00	6.91E+00
1.0E-01	6.46E-02	3.09E-01	6.81E-01	1.36E+00	2.63E+00	3.96E+00	6.72E+00	6.72E+00
1.5E-01	6.46E-02	3.09E-01	6.81E-01	1.35E+00	2.62E+00	3.95E+00	6.43E+00	6.42E+00
2.0E-01	6.46E-02	3.09E-01	6.81E-01	1.35E+00	2.62E+00	3.95E+00	6.07E+00	6.07E+00
3.0E-01	6.46E-02	3.07E-01	6.79E-01	1.33E+00	2.60E+00	3.92E+00	5.32E+00	5.33E+00
4.0E-01	6.46E-02	3.07E-01	6.79E-01	1.30E+00	2.58E+00	3.90E+00	4.71E+00	4.71E+00
5.0E-01	6.46E-02	3.05E-01	6.77E-01	1.27E+00	2.54E+00	3.86E+00	4.28E+00	4.28E+00
6.0E-01	6.46E-02	3.03E-01	6.75E-01	1.24E+00	2.49E+00	3.81E+00	4.02E+00	4.02E+00
7.0E-01	6.46E-02	3.01E-01	6.73E-01	1.20E+00	2.44E+00	3.75E+00	3.86E+00	3.86E+00
8.0E-01	6.44E-02	2.98E-01	6.71E-01	1.16E+00	2.39E+00	3.69E+00	3.75E+00	3.75E+00
1.0E+00	6.44E-02	2.94E-01	6.67E-01	1.08E+00	2.25E+00	3.50E+00	3.55E+00	3.55E+00
1.2E+00	6.42E-02	2.88E-01	6.60E-01	9.92E-01	2.10E+00	3.27E+00	3.32E+00	3.32E+00
1.4E+00	6.42E-02	2.80E-01	6.52E-01	9.12E-01	1.93E+00	3.01E+00	3.05E+00	3.06E+00
1.6E+00	6.40E-02	2.74E-01	6.45E-01	8.43E-01	1.75E+00	2.74E+00	2.77E+00	2.78E+00
1.8E+00	6.38E-02	2.66E-01	6.35E-01	7.84E-01	1.58E+00	2.47E+00	2.50E+00	2.50E+00
2.0E+00	6.36E-02	2.56E-01	6.24E-01	7.33E-01	1.42E+00	2.21E+00	2.23E+00	2.23E+00
2.4E+00	6.30E-02	2.37E-01	6.01E-01	6.61E-01	1.14E+00	1.75E+00	1.76E+00	1.76E+00
3.0E+00	6.22E-02	2.07E-01	5.61E-01	5.96E-01	8.46E-01	1.25E+00	1.26E+00	1.26E+00
4.0E+00	6.02E-02	1.59E-01	4.86E-01	5.91E-01	7.89E-01	7.91E-01	7.91E-01	7.91E-01
5.0E+00	5.80E-02	1.20E-01	4.08E-01	4.35E-01	4.64E-01	5.61E-01	5.62E-01	5.62E-01
6.0E+00	5.54E-02	9.14E-02	3.35E-01	3.53E-01	3.76E-01	4.24E-01	4.25E-01	4.25E-01
7.0E+00	5.24E-02	7.26E-02	2.71E-01	2.81E-01	3.05E-01	3.28E-01	3.29E-01	3.29E-01
8.0E+00	4.94E-02	6.11E-02	2.18E-01	2.24E-01	2.45E-01	2.57E-01	2.58E-01	2.58E-01
1.0E+01	4.20E-02	4.78E-02	1.44E-01	1.45E-01	1.60E-01	1.64E-01	1.64E-01	1.60E-01
1.5E+01	2.80E-02	3.30E-02	5.52E-02	5.59E-02	5.96E-02	5.99E-02	5.99E-02	6.00E-02
2.0E+01	1.64E-02	1.96E-02	2.52E-02	2.57E-02	2.66E-02	2.67E-02	2.67E-02	2.70E-02
3.0E+01	5.40E-03	6.30E-03	6.82E-03	6.96E-03	7.04E-03	7.04E-03	7.04E-03	7.00E-03
4.0E+01	1.82E-03	2.08E-03	2.16E-03	2.20E-03	2.21E-03	2.21E-03	2.21E-03	2.20E-03
6.0E+01	2.80E-04	3.14E-04	3.18E-04	3.23E-04	3.24E-04	3.24E-04	3.24E-04	3.30E-04
1.0E+02	1.88E-05	2.07E-05	2.08E-05	2.11E-05	2.11E-05	2.11E-05	2.11E-05	2.10E-05

E[keV]:	7.71E+00	9.27E-01	7.86E-01	1.01E-01	5.94E-02	4.00E-04	0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	3.02E+00	4.35E+00	5.62E+00	6.30E+00	6.67E+00	6.92E+00	6.98E+00	6.98E+00
5.0E-02	2.96E+00	4.29E+00	5.56E+00	6.24E+00	6.61E+00	6.86E+00	6.92E+00	6.91E+00
1.0E-01	2.76E+00	4.09E+00	5.36E+00	6.04E+00	6.41E+00	6.65E+00	6.72E+00	6.72E+00
1.5E-01	2.48E+00	3.81E+00	5.08E+00	5.75E+00	6.12E+00	6.37E+00	6.43E+00	6.42E+00
2.0E-01	2.12E+00	3.45E+00	4.72E+00	5.39E+00	5.76E+00	6.00E+00	6.07E+00	6.07E+00
3.0E-01	1.40E+00	2.72E+00	4.00E+00	4.64E+00	5.02E+00	5.26E+00	5.32E+00	5.33E+00
4.0E-01	8.08E-01	2.13E+00	3.40E+00	4.03E+00	4.40E+00	4.64E+00	4.71E+00	4.71E+00
5.0E-01	4.22E-01	1.75E+00	3.01E+00	3.61E+00	3.98E+00	4.22E+00	4.28E+00	4.28E+00
6.0E-01	2.08E-01	1.52E+00	2.78E+00	3.34E+00	3.71E+00	3.95E+00	4.02E+00	4.02E+00
7.0E-01	1.07E-01	1.42E+00	2.66E+00	3.19E+00	3.56E+00	3.79E+00	3.86E+00	3.86E+00
8.0E-01	6.60E-02	1.36E+00	2.59E+00	3.08E+00	3.45E+00	3.69E+00	3.75E+00	3.75E+00
1.0E+00	5.08E-02	1.30E+00	2.47E+00	2.88E+00	3.26E+00	3.49E+00	3.55E+00	3.55E+00
1.2E+00	4.98E-02	1.23E+00	2.33E+00	2.66E+00	3.03E+00	3.26E+00	3.32E+00	3.32E+00
1.4E+00	4.40E-02	1.13E+00	2.14E+00	2.40E+00	2.77E+00	2.99E+00	3.05E+00	3.06E+00
1.6E+00	3.48E-02	1.02E+00	1.93E+00	2.13E+00	2.50E+00	2.71E+00	2.77E+00	2.78E+00
1.8E+00	2.56E-02	9.15E-01	1.71E+00	1.86E+00	2.23E+00	2.43E+00	2.50E+00	2.50E+00
2.0E+00	1.78E-02	8.09E-01	1.49E+00	1.60E+00	1.97E+00	2.16E+00	2.23E+00	2.23E+00
2.4E+00	7.92E-03	6.23E-01	1.10E+00	1.16E+00	1.53E+00	1.70E+00	1.76E+00	1.76E+00
3.0E+00	2.50E-03	4.10E-01	6.60E-01	6.95E-01	1.05E+00	1.19E+00	1.26E+00	1.26E+00
4.0E+00	1.48E-03	2.00E-01	2.73E-01	3.05E-01	6.32E-01	7.30E-01	7.91E-01	7.91E-01
5.0E+00	1.35E-03	9.80E-02	1.27E-01	1.54E-01	4.43E-01	5.04E-01	5.62E-01	5.62E-01
6.0E+00	9.38E-04	4.84E-02	7.19E-02	8.98E-02	3.33E-01	3.69E-01	4.25E-01	4.25E-01
7.0E+00	5.38E-04	2.44E-02	4.76E-02	5.78E-02	2.56E-01	2.77E-01	3.29E-01	3.29E-01
8.0E+00	2.76E-04	1.26E-02	3.41E-02	3.93E-02	1.96E-01	2.08E-01	2.58E-01	2.58E-01
1.0E+01	7.00E-05	3.64E-03	1.86E-02	2.00E-02	1.16E-01	1.22E-01	1.64E-01	1.60E-01
1.5E+01	3.20E-05	2.84E-04	3.94E-03	4.68E-03	2.69E-02	3.19E-02	5.99E-02	6.00E-02
2.0E+01	2.20E-05	5.14E-05	9.51E-04	1.45E-03	7.09E-03	1.03E-02	2.67E-02	2.70E-02
3.0E+01	6.20E-06	7.18E-06	8.52E-05	2.21E-04	7.43E-04	1.64E-03	7.04E-03	7.00E-03
4.0E+01	1.70E-06	1.78E-06	1.26E-05	5.06E-05	1.29E-04	3.89E-04	2.21E-03	2.20E-03
6.0E+01	2.20E-07	2.22E-07	7.86E-07	5.59E-06	9.73E-06	4.37E-05	3.24E-04	3.30E-04
1.0E+02	1.20E-08	1.20E-08	2.34E-08	2.83E-07	3.67E-07	2.29E-06	2.11E-05	2.10E-05

E[keV]:	0.00E+00	4.00E-04	5.94E-02	1.01E-01	7.86E-01	9.27E-01	7.71E+00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Z=28

Compton profiles for the single orbitals and binding energies

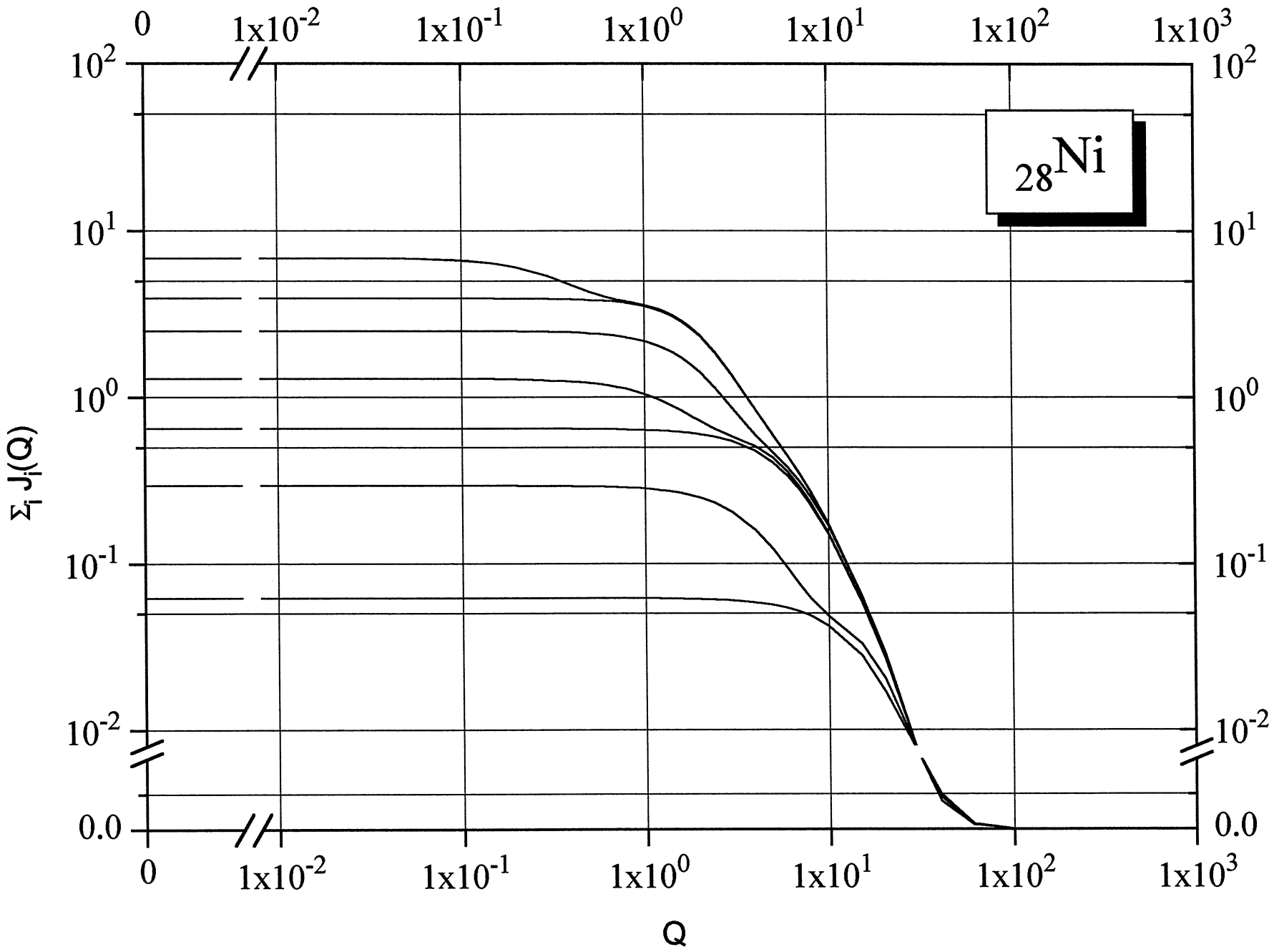
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(8)	3p+(2)	Total
0.0E+00	3.11E-02	1.17E-01	5.95E-02	3.25E-01	2.02E-01	1.79E-01	1.47E+00	6.90E+00
5.0E-02	3.11E-02	1.17E-01	5.95E-02	3.24E-01	2.02E-01	1.79E-01	1.44E+00	6.84E+00
1.0E-01	3.11E-02	1.17E-01	5.95E-02	3.23E-01	2.02E-01	1.79E-01	1.35E+00	6.66E+00
1.5E-01	3.11E-02	1.17E-01	5.95E-02	3.21E-01	2.02E-01	1.79E-01	1.22E+00	6.38E+00
2.0E-01	3.11E-02	1.17E-01	5.95E-02	3.18E-01	2.02E-01	1.79E-01	1.05E+00	6.05E+00
3.0E-01	3.11E-02	1.16E-01	5.95E-02	3.11E-01	2.02E-01	1.79E-01	7.09E-01	5.34E+00
4.0E-01	3.11E-02	1.16E-01	5.95E-02	3.01E-01	2.02E-01	1.79E-01	4.20E-01	4.74E+00
5.0E-01	3.11E-02	1.15E-01	5.95E-02	2.88E-01	2.01E-01	1.79E-01	2.25E-01	4.32E+00
6.0E-01	3.11E-02	1.15E-01	5.95E-02	2.74E-01	2.00E-01	1.78E-01	1.13E-01	4.05E+00
7.0E-01	3.11E-02	1.14E-01	5.95E-02	2.58E-01	1.99E-01	1.77E-01	5.80E-02	3.89E+00
8.0E-01	3.11E-02	1.13E-01	5.95E-02	2.41E-01	1.96E-01	1.76E-01	3.42E-02	3.78E+00
1.0E+00	3.10E-02	1.11E-01	5.95E-02	2.04E-01	1.89E-01	1.70E-01	2.38E-02	3.59E+00
1.2E+00	3.10E-02	1.08E-01	5.94E-02	1.68E-01	1.79E-01	1.62E-01	2.34E-02	3.39E+00
1.4E+00	3.09E-02	1.05E-01	5.93E-02	1.34E-01	1.66E-01	1.51E-01	2.13E-02	3.15E+00
1.6E+00	3.08E-02	1.02E-01	5.92E-02	1.04E-01	1.51E-01	1.39E-01	1.75E-02	2.88E+00
1.8E+00	3.07E-02	9.79E-02	5.91E-02	7.93E-02	1.34E-01	1.27E-01	1.33E-02	2.61E+00
2.0E+00	3.06E-02	9.39E-02	5.89E-02	5.95E-02	1.17E-01	1.14E-01	9.54E-03	2.35E+00
2.4E+00	3.04E-02	8.55E-02	5.83E-02	3.34E-02	8.44E-02	9.04E-02	4.48E-03	1.89E+00
3.0E+00	3.00E-02	7.21E-02	5.69E-02	1.80E-02	4.66E-02	6.17E-02	1.42E-03	1.36E+00
4.0E+00	2.92E-02	5.05E-02	5.31E-02	1.52E-02	1.47E-02	3.14E-02	6.88E-04	8.49E-01
5.0E+00	2.82E-02	3.26E-02	4.75E-02	1.37E-02	5.44E-03	1.59E-02	6.52E-04	5.95E-01
6.0E+00	2.70E-02	1.97E-02	4.08E-02	9.72E-03	3.84E-03	8.09E-03	4.87E-04	4.46E-01
7.0E+00	2.56E-02	1.14E-02	3.38E-02	5.84E-03	3.76E-03	4.19E-03	2.98E-04	3.46E-01
8.0E+00	2.42E-02	6.65E-03	2.73E-02	3.16E-03	3.60E-03	2.22E-03	1.62E-04	2.71E-01
1.0E+01	2.10E-02	3.10E-03	1.70E-02	8.50E-04	2.60E-03	6.70E-04	4.20E-05	1.70E-01
1.5E+01	1.40E-02	2.50E-03	4.30E-03	3.60E-04	7.10E-04	4.90E-05	1.60E-05	6.40E-02
2.0E+01	8.50E-03	1.70E-03	1.10E-03	2.70E-04	1.80E-04	5.90E-06	1.20E-05	2.90E-02
3.0E+01	2.90E-03	5.00E-04	1.10E-04	7.70E-05	1.60E-05	2.10E-07	3.40E-06	7.80E-03
4.0E+01	1.00E-03	1.50E-04	1.60E-05	2.20E-05	2.30E-06	1.60E-08	9.60E-07	2.50E-03
6.0E+01	1.60E-04	2.00E-05	8.90E-07	2.80E-06	1.20E-07	3.60E-10	1.20E-07	3.80E-04
1.0E+02	1.10E-05	1.20E-06	1.80E-08	1.60E-07	2.50E-09	2.40E-12	7.10E-09	2.50E-05
E[keV]:	8.33E+00	1.01E+00	8.60E-01	1.11E-01	6.66E-02	6.00E-04	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(8)	3p+(2)	Total
0.0E+00	6.22E-02	2.96E-01	6.53E-01	1.30E+00	2.52E+00	3.95E+00	6.89E+00	6.90E+00
5.0E-02	6.22E-02	2.96E-01	6.53E-01	1.30E+00	2.51E+00	3.95E+00	6.83E+00	6.84E+00
1.0E-01	6.22E-02	2.96E-01	6.53E-01	1.30E+00	2.51E+00	3.94E+00	6.64E+00	6.66E+00
1.5E-01	6.22E-02	2.96E-01	6.53E-01	1.30E+00	2.51E+00	3.94E+00	6.38E+00	6.38E+00
2.0E-01	6.22E-02	2.96E-01	6.53E-01	1.29E+00	2.50E+00	3.93E+00	6.03E+00	6.05E+00
3.0E-01	6.22E-02	2.94E-01	6.51E-01	1.27E+00	2.49E+00	3.92E+00	5.34E+00	5.34E+00
4.0E-01	6.22E-02	2.94E-01	6.51E-01	1.25E+00	2.47E+00	3.90E+00	4.74E+00	4.74E+00
5.0E-01	6.22E-02	2.92E-01	6.49E-01	1.23E+00	2.43E+00	3.86E+00	4.31E+00	4.32E+00
6.0E-01	6.22E-02	2.92E-01	6.49E-01	1.20E+00	2.40E+00	3.82E+00	4.05E+00	4.05E+00
7.0E-01	6.22E-02	2.90E-01	6.47E-01	1.16E+00	2.36E+00	3.77E+00	3.89E+00	3.89E+00
8.0E-01	6.22E-02	2.88E-01	6.45E-01	1.13E+00	2.30E+00	3.71E+00	3.78E+00	3.78E+00
1.0E+00	6.20E-02	2.84E-01	6.41E-01	1.05E+00	2.18E+00	3.54E+00	3.59E+00	3.59E+00
1.2E+00	6.20E-02	2.78E-01	6.34E-01	9.70E-01	2.04E+00	3.34E+00	3.39E+00	3.39E+00
1.4E+00	6.18E-02	2.72E-01	6.28E-01	8.96E-01	1.89E+00	3.10E+00	3.14E+00	3.15E+00
1.6E+00	6.16E-02	2.66E-01	6.21E-01	8.29E-01	1.73E+00	2.85E+00	2.88E+00	2.88E+00
1.8E+00	6.14E-02	2.57E-01	6.12E-01	7.70E-01	1.57E+00	2.59E+00	2.62E+00	2.61E+00
2.0E+00	6.12E-02	2.49E-01	6.02E-01	7.21E-01	1.42E+00	2.34E+00	2.35E+00	2.35E+00
2.4E+00	6.08E-02	2.32E-01	5.82E-01	6.48E-01	1.15E+00	1.88E+00	1.89E+00	1.89E+00
3.0E+00	6.00E-02	2.04E-01	5.46E-01	5.82E-01	8.61E-01	1.35E+00	1.36E+00	1.36E+00
4.0E+00	5.84E-02	1.59E-01	4.78E-01	5.08E-01	5.97E-01	8.48E-01	8.49E-01	8.49E-01
5.0E+00	5.66E-02	1.22E-01	4.07E-01	4.67E-01	5.94E-01	5.95E-01	5.95E-01	5.95E-01
6.0E+00	5.40E-02	9.34E-02	3.38E-01	3.58E-01	3.81E-01	4.45E-01	4.46E-01	4.46E-01
7.0E+00	5.12E-02	7.40E-02	2.77E-01	2.88E-01	3.11E-01	3.45E-01	3.45E-01	3.46E-01
8.0E+00	4.84E-02	6.17E-02	2.26E-01	2.32E-01	2.53E-01	2.71E-01	2.72E-01	2.71E-01
1.0E+01	4.20E-02	4.82E-02	1.50E-01	1.52E-01	1.68E-01	1.73E-01	1.73E-01	1.70E-01
1.5E+01	2.80E-02	3.30E-02	5.88E-02	5.95E-02	6.38E-02	6.42E-02	6.42E-02	6.40E-02
2.0E+01	1.70E-02	2.04E-02	2.70E-02	2.75E-02	2.86E-02	2.87E-02	2.87E-02	2.90E-02
3.0E+01	5.80E-03	6.80E-03	7.46E-03	7.61E-03	7.71E-03	7.71E-03	7.72E-03	7.80E-03
4.0E+01	2.00E-03	2.30E-03	2.40E-03	2.44E-03	2.45E-03	2.45E-03	2.46E-03	2.50E-03
6.0E+01	3.20E-04	3.60E-04	3.65E-04	3.71E-04	3.72E-04	3.72E-04	3.72E-04	3.80E-04
1.0E+02	2.20E-05	2.44E-05	2.45E-05	2.48E-05	2.48E-05	2.48E-05	2.49E-05	2.50E-05
E[keV]:	8.33E+00	1.01E+00	8.60E-01	1.11E-01	6.66E-02	6.00E-04	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	2.94E+00	4.37E+00	5.58E+00	6.23E+00	6.59E+00	6.83E+00	6.89E+00	6.90E+00
5.0E-02	2.88E+00	4.31E+00	5.52E+00	6.17E+00	6.53E+00	6.76E+00	6.83E+00	6.84E+00
1.0E-01	2.70E+00	4.13E+00	5.34E+00	5.99E+00	6.35E+00	6.58E+00	6.64E+00	6.66E+00
1.5E-01	2.44E+00	3.87E+00	5.08E+00	5.73E+00	6.08E+00	6.32E+00	6.38E+00	6.38E+00
2.0E-01	2.10E+00	3.53E+00	4.74E+00	5.38E+00	5.74E+00	5.97E+00	6.03E+00	6.05E+00
3.0E-01	1.42E+00	2.85E+00	4.06E+00	4.68E+00	5.04E+00	5.27E+00	5.34E+00	5.34E+00
4.0E-01	8.40E-01	2.27E+00	3.48E+00	4.09E+00	4.44E+00	4.68E+00	4.74E+00	4.74E+00
5.0E-01	4.50E-01	1.88E+00	3.09E+00	3.66E+00	4.02E+00	4.25E+00	4.31E+00	4.32E+00
6.0E-01	2.26E-01	1.65E+00	2.85E+00	3.40E+00	3.76E+00	3.99E+00	4.05E+00	4.05E+00
7.0E-01	1.16E-01	1.53E+00	2.73E+00	3.24E+00	3.60E+00	3.83E+00	3.89E+00	3.89E+00
8.0E-01	6.84E-02	1.48E+00	2.65E+00	3.13E+00	3.49E+00	3.72E+00	3.78E+00	3.78E+00
1.0E+00	4.76E-02	1.41E+00	2.54E+00	2.95E+00	3.31E+00	3.53E+00	3.59E+00	3.59E+00
1.2E+00	4.68E-02	1.34E+00	2.42E+00	2.75E+00	3.11E+00	3.33E+00	3.39E+00	3.39E+00
1.4E+00	4.26E-02	1.25E+00	2.25E+00	2.51E+00	2.87E+00	3.08E+00	3.14E+00	3.15E+00
1.6E+00	3.50E-02	1.15E+00	2.05E+00	2.26E+00	2.62E+00	2.82E+00	2.88E+00	2.88E+00
1.8E+00	2.66E-02	1.04E+00	1.85E+00	2.01E+00	2.36E+00	2.56E+00	2.62E+00	2.61E+00
2.0E+00	1.91E-02	9.31E-01	1.63E+00	1.75E+00	2.11E+00	2.29E+00	2.35E+00	2.35E+00
2.4E+00	8.96E-03	7.32E-01	1.24E+00	1.31E+00	1.66E+00	1.83E+00	1.89E+00	1.89E+00
3.0E+00	2.84E-03	4.96E-01	7.76E-01	8.12E-01	1.15E+00	1.30E+00	1.36E+00	1.36E+00
4.0E+00	1.38E-03	2.53E-01	3.41E-01	3.71E-01	6.90E-01	7.91E-01	8.49E-01	8.49E-01
5.0E+00	1.30E-03	1.29E-01	1.61E-01	1.89E-01	4.74E-01	5.39E-01	5.95E-01	5.95E-01
6.0E+00	9.74E-04	6.57E-02	8.87E-02	1.08E-01	3.53E-01	3.92E-01	4.46E-01	4.46E-01
7.0E+00	5.96E-04	3.41E-02	5.67E-02	6.84E-02	2.71E-01	2.94E-01	3.45E-01	3.46E-01
8.0E+00	3.24E-04	1.81E-02	3.97E-02	4.60E-02	2.10E-01	2.23E-01	2.72E-01	2.71E-01
1.0E+01	8.40E-05	5.44E-03	2.10E-02	2.27E-02	1.25E-01	1.31E-01	1.73E-01	1.70E-01
1.5E+01	3.20E-05	4.24E-04	4.68E-03	5.40E-03	3.12E-02	3.62E-02	6.42E-02	6.40E-02
2.0E+01	2.40E-05	7.12E-05	1.15E-03	1.69E-03	8.29E-03	1.17E-02	2.87E-02	2.90E-02
3.0E+01	6.80E-06	8.48E-06	1.04E-04	2.58E-04	9.18E-04	1.92E-03	7.72E-03	7.80E-03
4.0E+01	1.92E-06	2.05E-06	1.58E-05	5.98E-05	1.56E-04	4.56E-04	2.46E-03	2.50E-03
6.0E+01	2.40E-07	2.43E-07	9.63E-07	6.56E-06	1.19E-05	5.19E-05	3.72E-04	3.80E-04
1.0E+02	1.42E-08	1.42E-08	2.92E-08	3.49E-07	4.57E-07	2.86E-06	2.49E-05	2.50E-05
E[keV]:	0.00E+00	6.00E-04	6.66E-02	1.11E-01	8.60E-01	1.01E+00	8.33E+00	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10^2
10^1
10^0
10-1
10-2
0.0
28Ni
Σi Ji(Q)
Q

Z=29

Compton profiles for the single orbitals and binding energies

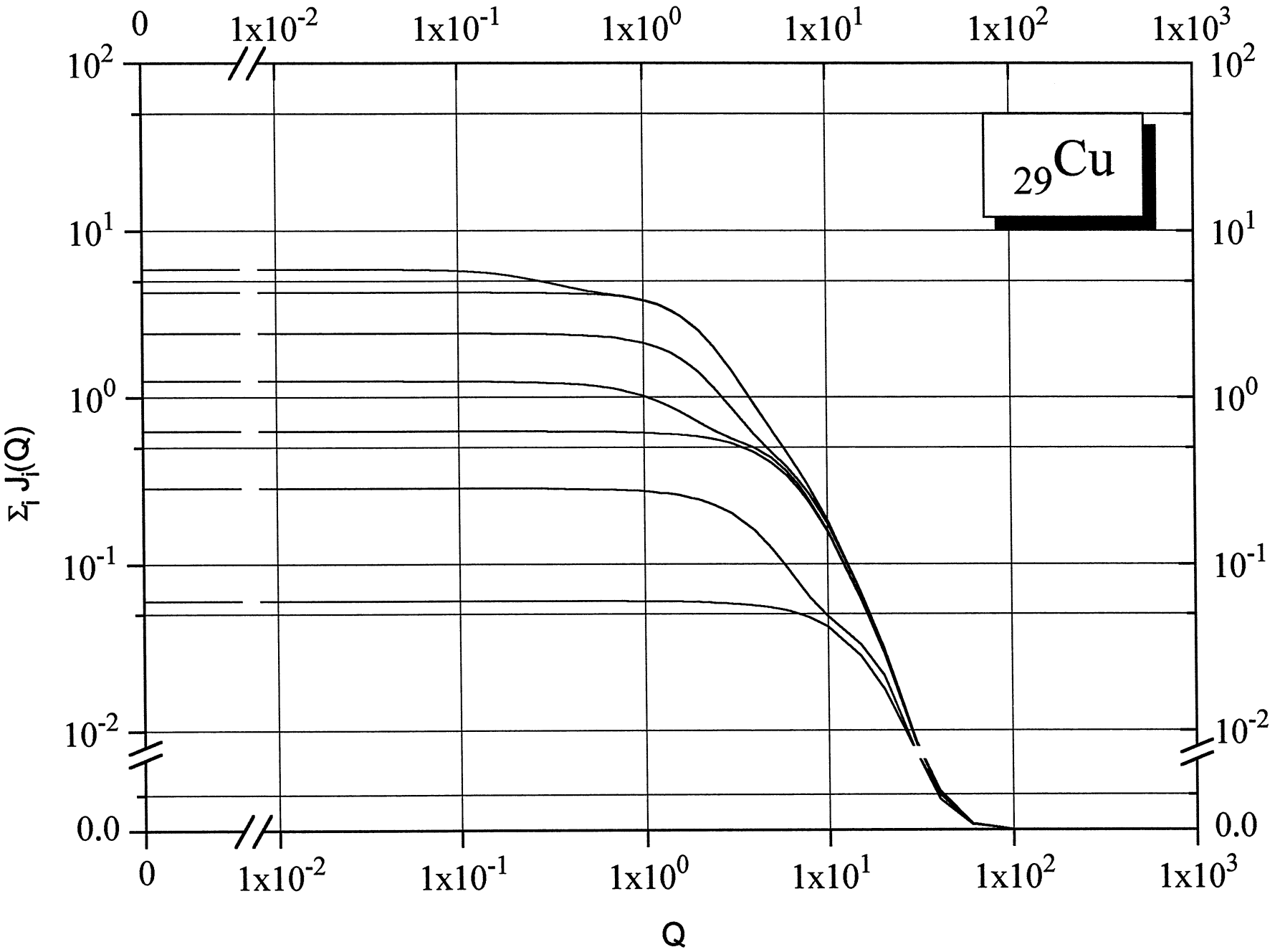
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(1)	Total
0.0E+00	3.01E-02	1.12E-01	5.71E-02	3.15E-01	1.96E-01	1.85E-01	1.64E+00	5.93E+00
5.0E-02	3.01E-02	1.12E-01	5.71E-02	3.15E-01	1.96E-01	1.85E-01	1.60E+00	5.88E+00
1.0E-01	3.00E-02	1.12E-01	5.71E-02	3.14E-01	1.96E-01	1.85E-01	1.48E+00	5.76E+00
1.5E-01	3.00E-02	1.12E-01	5.71E-02	3.12E-01	1.96E-01	1.85E-01	1.31E+00	5.58E+00
2.0E-01	3.00E-02	1.12E-01	5.71E-02	3.09E-01	1.96E-01	1.85E-01	1.10E+00	5.37E+00
3.0E-01	3.00E-02	1.12E-01	5.71E-02	3.02E-01	1.96E-01	1.85E-01	6.86E-01	4.94E+00
4.0E-01	3.00E-02	1.11E-01	5.71E-02	2.93E-01	1.95E-01	1.85E-01	3.70E-01	4.60E+00
5.0E-01	3.00E-02	1.11E-01	5.71E-02	2.82E-01	1.95E-01	1.84E-01	1.79E-01	4.38E+00
6.0E-01	3.00E-02	1.10E-01	5.71E-02	2.68E-01	1.94E-01	1.83E-01	8.19E-02	4.24E+00
7.0E-01	3.00E-02	1.10E-01	5.71E-02	2.53E-01	1.93E-01	1.81E-01	3.92E-02	4.14E+00
8.0E-01	3.00E-02	1.09E-01	5.71E-02	2.37E-01	1.90E-01	1.79E-01	2.34E-02	4.05E+00
1.0E+00	2.99E-02	1.07E-01	5.71E-02	2.03E-01	1.84E-01	1.71E-01	1.80E-02	3.86E+00
1.2E+00	2.99E-02	1.04E-01	5.70E-02	1.69E-01	1.75E-01	1.61E-01	1.77E-02	3.62E+00
1.4E+00	2.98E-02	1.02E-01	5.70E-02	1.37E-01	1.63E-01	1.48E-01	1.56E-02	3.36E+00
1.6E+00	2.98E-02	9.86E-02	5.69E-02	1.08E-01	1.49E-01	1.35E-01	1.25E-02	3.07E+00
1.8E+00	2.97E-02	9.53E-02	5.68E-02	8.31E-02	1.34E-01	1.22E-01	9.36E-03	2.79E+00
2.0E+00	2.96E-02	9.17E-02	5.66E-02	6.31E-02	1.18E-01	1.10E-01	6.75E-03	2.52E+00
2.4E+00	2.94E-02	8.41E-02	5.61E-02	3.60E-02	8.72E-02	8.69E-02	3.25E-03	2.03E+00
3.0E+00	2.90E-02	7.18E-02	5.50E-02	1.85E-02	5.02E-02	5.99E-02	1.06E-03	1.47E+00
4.0E+00	2.83E-02	5.16E-02	5.17E-02	1.45E-02	1.69E-02	3.14E-02	4.61E-04	9.15E-01
5.0E+00	2.73E-02	3.43E-02	4.67E-02	1.36E-02	6.07E-03	1.64E-02	4.42E-04	6.32E-01
6.0E+00	2.63E-02	2.14E-02	4.07E-02	1.02E-02	3.78E-03	8.62E-03	3.51E-04	4.70E-01
7.0E+00	2.51E-02	1.28E-02	3.43E-02	6.50E-03	3.59E-03	4.59E-03	2.29E-04	3.62E-01
8.0E+00	2.38E-02	7.53E-03	2.82E-02	3.69E-03	3.52E-03	2.49E-03	1.31E-04	2.85E-01
1.0E+01	2.10E-02	3.30E-03	1.80E-02	1.00E-03	2.70E-03	7.80E-04	3.60E-05	1.80E-01
1.5E+01	1.40E-02	2.40E-03	4.80E-03	3.50E-04	8.10E-04	6.10E-05	1.10E-05	6.80E-02
2.0E+01	8.90E-03	1.80E-03	1.30E-03	2.80E-04	2.10E-04	7.50E-06	8.40E-06	3.10E-02
3.0E+01	3.20E-03	5.60E-04	1.30E-04	8.60E-05	2.00E-05	2.80E-07	2.60E-06	8.50E-03
4.0E+01	1.10E-03	1.70E-04	2.00E-05	2.50E-05	3.00E-06	2.20E-08	7.70E-07	2.80E-03
6.0E+01	1.90E-04	2.30E-05	1.10E-06	3.30E-06	1.60E-07	5.10E-10	1.00E-07	4.40E-04
1.0E+02	1.30E-05	1.40E-06	2.40E-08	1.90E-07	3.30E-09	3.50E-12	5.90E-09	2.90E-05
E[keV]:	8.98E+00	1.10E+00	9.39E-01	1.23E-01	7.58E-02	2.80E-03	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(1)	Total
0.0E+00	6.02E-02	2.84E-01	6.27E-01	1.26E+00	2.43E+00	4.28E+00	5.92E+00	5.93E+00
5.0E-02	6.02E-02	2.84E-01	6.27E-01	1.26E+00	2.43E+00	4.28E+00	5.88E+00	5.88E+00
1.0E-01	6.00E-02	2.84E-01	6.27E-01	1.25E+00	2.43E+00	4.28E+00	5.76E+00	5.76E+00
1.5E-01	6.00E-02	2.84E-01	6.27E-01	1.25E+00	2.43E+00	4.28E+00	5.59E+00	5.58E+00
2.0E-01	6.00E-02	2.84E-01	6.27E-01	1.24E+00	2.42E+00	4.27E+00	5.37E+00	5.37E+00
3.0E-01	6.00E-02	2.84E-01	6.27E-01	1.23E+00	2.41E+00	4.26E+00	4.94E+00	4.94E+00
4.0E-01	6.00E-02	2.82E-01	6.25E-01	1.21E+00	2.39E+00	4.23E+00	4.60E+00	4.60E+00
5.0E-01	6.00E-02	2.82E-01	6.25E-01	1.19E+00	2.36E+00	4.20E+00	4.38E+00	4.38E+00
6.0E-01	6.00E-02	2.80E-01	6.23E-01	1.16E+00	2.32E+00	4.15E+00	4.23E+00	4.24E+00
7.0E-01	6.00E-02	2.80E-01	6.23E-01	1.13E+00	2.29E+00	4.10E+00	4.14E+00	4.14E+00
8.0E-01	6.00E-02	2.78E-01	6.21E-01	1.09E+00	2.23E+00	4.02E+00	4.05E+00	4.05E+00
1.0E+00	5.98E-02	2.74E-01	6.16E-01	1.02E+00	2.13E+00	3.84E+00	3.85E+00	3.86E+00
1.2E+00	5.98E-02	2.68E-01	6.10E-01	9.48E-01	2.00E+00	3.61E+00	3.63E+00	3.62E+00
1.4E+00	5.96E-02	2.64E-01	6.06E-01	8.80E-01	1.86E+00	3.34E+00	3.35E+00	3.36E+00
1.6E+00	5.96E-02	2.57E-01	5.98E-01	8.14E-01	1.71E+00	3.06E+00	3.07E+00	3.07E+00
1.8E+00	5.94E-02	2.50E-01	5.91E-01	7.57E-01	1.56E+00	2.78E+00	2.79E+00	2.79E+00
2.0E+00	5.92E-02	2.43E-01	5.82E-01	7.08E-01	1.42E+00	2.52E+00	2.52E+00	2.52E+00
2.4E+00	5.88E-02	2.27E-01	5.64E-01	6.36E-01	1.16E+00	2.03E+00	2.03E+00	2.03E+00
3.0E+00	5.82E-02	2.02E-01	5.32E-01	5.69E-01	8.70E-01	1.47E+00	1.47E+00	1.47E+00
4.0E+00	5.66E-02	1.60E-01	4.70E-01	4.99E-01	6.00E-01	9.14E-01	9.15E-01	9.15E-01
5.0E+00	5.46E-02	1.23E-01	4.03E-01	4.31E-01	4.67E-01	6.31E-01	6.31E-01	6.32E-01
6.0E+00	5.26E-02	9.54E-02	3.40E-01	3.60E-01	3.83E-01	4.69E-01	4.69E-01	4.70E-01
7.0E+00	5.02E-02	7.58E-02	2.82E-01	2.95E-01	3.16E-01	3.62E-01	3.62E-01	3.62E-01
8.0E+00	4.76E-02	6.27E-02	2.32E-01	2.39E-01	2.60E-01	2.85E-01	2.85E-01	2.85E-01
1.0E+01	4.20E-02	4.86E-02	1.57E-01	1.59E-01	1.75E-01	1.83E-01	1.83E-01	1.80E-01
1.5E+01	2.80E-02	3.28E-02	6.16E-02	6.23E-02	6.72E-02	6.78E-02	6.78E-02	6.80E-02
2.0E+01	1.78E-02	2.14E-02	2.92E-02	2.98E-02	3.10E-02	3.11E-02	3.11E-02	3.10E-02
3.0E+01	6.40E-03	7.52E-03	8.30E-03	8.47E-03	8.59E-03	8.59E-03	8.60E-03	8.50E-03
4.0E+01	2.20E-03	2.54E-03	2.66E-03	2.71E-03	2.73E-03	2.73E-03	2.73E-03	2.80E-03
6.0E+01	3.80E-04	4.26E-04	4.32E-04	4.39E-04	4.40E-04	4.40E-04	4.40E-04	4.40E-04
1.0E+02	2.60E-05	2.88E-05	2.89E-05	2.93E-05	2.93E-05	2.93E-05	2.93E-05	2.90E-05
E[keV]:	8.98E+00	1.10E+00	9.39E-01	1.23E-01	7.58E-02	2.80E-03	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	1.64E+00	3.49E+00	4.67E+00	5.30E+00	5.64E+00	5.86E+00	5.92E+00	5.93E+00
5.0E-02	1.60E+00	3.45E+00	4.63E+00	5.26E+00	5.60E+00	5.82E+00	5.88E+00	5.88E+00
1.0E-01	1.48E+00	3.33E+00	4.51E+00	5.13E+00	5.48E+00	5.70E+00	5.76E+00	5.76E+00
1.5E-01	1.31E+00	3.16E+00	4.34E+00	4.96E+00	5.30E+00	5.53E+00	5.59E+00	5.58E+00
2.0E-01	1.10E+00	2.95E+00	4.13E+00	4.74E+00	5.09E+00	5.31E+00	5.37E+00	5.37E+00
3.0E-01	6.86E-01	2.54E+00	3.71E+00	4.32E+00	4.66E+00	4.88E+00	4.94E+00	4.94E+00
4.0E-01	3.70E-01	2.22E+00	3.39E+00	3.98E+00	4.32E+00	4.54E+00	4.60E+00	4.60E+00
5.0E-01	1.79E-01	2.02E+00	3.19E+00	3.75E+00	4.10E+00	4.32E+00	4.38E+00	4.38E+00
6.0E-01	8.19E-02	1.91E+00	3.08E+00	3.61E+00	3.95E+00	4.17E+00	4.23E+00	4.24E+00
7.0E-01	3.92E-02	1.85E+00	3.01E+00	3.51E+00	3.86E+00	4.08E+00	4.14E+00	4.14E+00
8.0E-01	2.34E-02	1.81E+00	2.95E+00	3.43E+00	3.77E+00	3.99E+00	4.05E+00	4.05E+00
1.0E+00	1.80E-02	1.73E+00	2.83E+00	3.24E+00	3.58E+00	3.79E+00	3.85E+00	3.86E+00
1.2E+00	1.77E-02	1.63E+00	2.68E+00	3.02E+00	3.36E+00	3.57E+00	3.63E+00	3.62E+00
1.4E+00	1.56E-02	1.50E+00	2.47E+00	2.75E+00	3.09E+00	3.29E+00	3.35E+00	3.36E+00
1.6E+00	1.25E-02	1.36E+00	2.26E+00	2.47E+00	2.81E+00	3.01E+00	3.07E+00	3.07E+00
1.8E+00	9.36E-03	1.23E+00	2.03E+00	2.20E+00	2.54E+00	2.73E+00	2.79E+00	2.79E+00
2.0E+00	6.75E-03	1.11E+00	1.81E+00	1.94E+00	2.28E+00	2.46E+00	2.52E+00	2.52E+00
2.4E+00	3.25E-03	8.72E-01	1.40E+00	1.47E+00	1.80E+00	1.97E+00	2.03E+00	2.03E+00
3.0E+00	1.06E-03	6.00E-01	9.01E-01	9.38E-01	1.27E+00	1.41E+00	1.47E+00	1.47E+00
4.0E+00	4.61E-04	3.14E-01	4.16E-01	4.45E-01	7.55E-01	8.58E-01	9.15E-01	9.15E-01
5.0E+00	4.43E-04	1.64E-01	2.01E-01	2.28E-01	5.08E-01	5.77E-01	6.31E-01	6.32E-01
6.0E+00	3.51E-04	8.66E-02	1.09E-01	1.30E-01	3.74E-01	4.17E-01	4.69E-01	4.70E-01
7.0E+00	2.29E-04	4.61E-02	6.77E-02	8.07E-02	2.86E-01	3.12E-01	3.62E-01	3.62E-01
8.0E+00	1.31E-04	2.50E-02	4.62E-02	5.35E-02	2.23E-01	2.38E-01	2.85E-01	2.85E-01
1.0E+01	3.60E-05	7.84E-03	2.40E-02	2.60E-02	1.34E-01	1.41E-01	1.83E-01	1.80E-01
1.5E+01	1.10E-05	6.21E-04	5.48E-03	6.18E-03	3.50E-02	3.98E-02	6.78E-02	6.80E-02
2.0E+01	8.40E-06	8.34E-05	1.34E-03	1.90E-03	9.70E-03	1.33E-02	3.11E-02	3.10E-02
3.0E+01	2.60E-06	5.40E-06	1.25E-04	2.97E-04	1.09E-03	2.20E-03	8.60E-03	8.50E-03
4.0E+01	7.70E-07	9.90E-07	1.90E-05	6.90E-05	1.89E-04	5.29E-04	2.73E-03	2.80E-03
6.0E+01	1.00E-07	1.05E-07	1.07E-06	7.67E-06	1.43E-05	6.03E-05	4.40E-04	4.40E-04
1.0E+02	5.90E-09	5.94E-09	2.57E-08	4.06E-07	5.50E-07	3.35E-06	2.93E-05	2.90E-05
E[keV]:	0.00E+00	2.80E-03	7.58E-02	1.23E-01	9.39E-01	1.10E+00	8.98E+00	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101
100
10-1
10-2
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29Cu
Σi Ji(Q)
Q

Z=30

Compton profiles for the single orbitals and binding energies

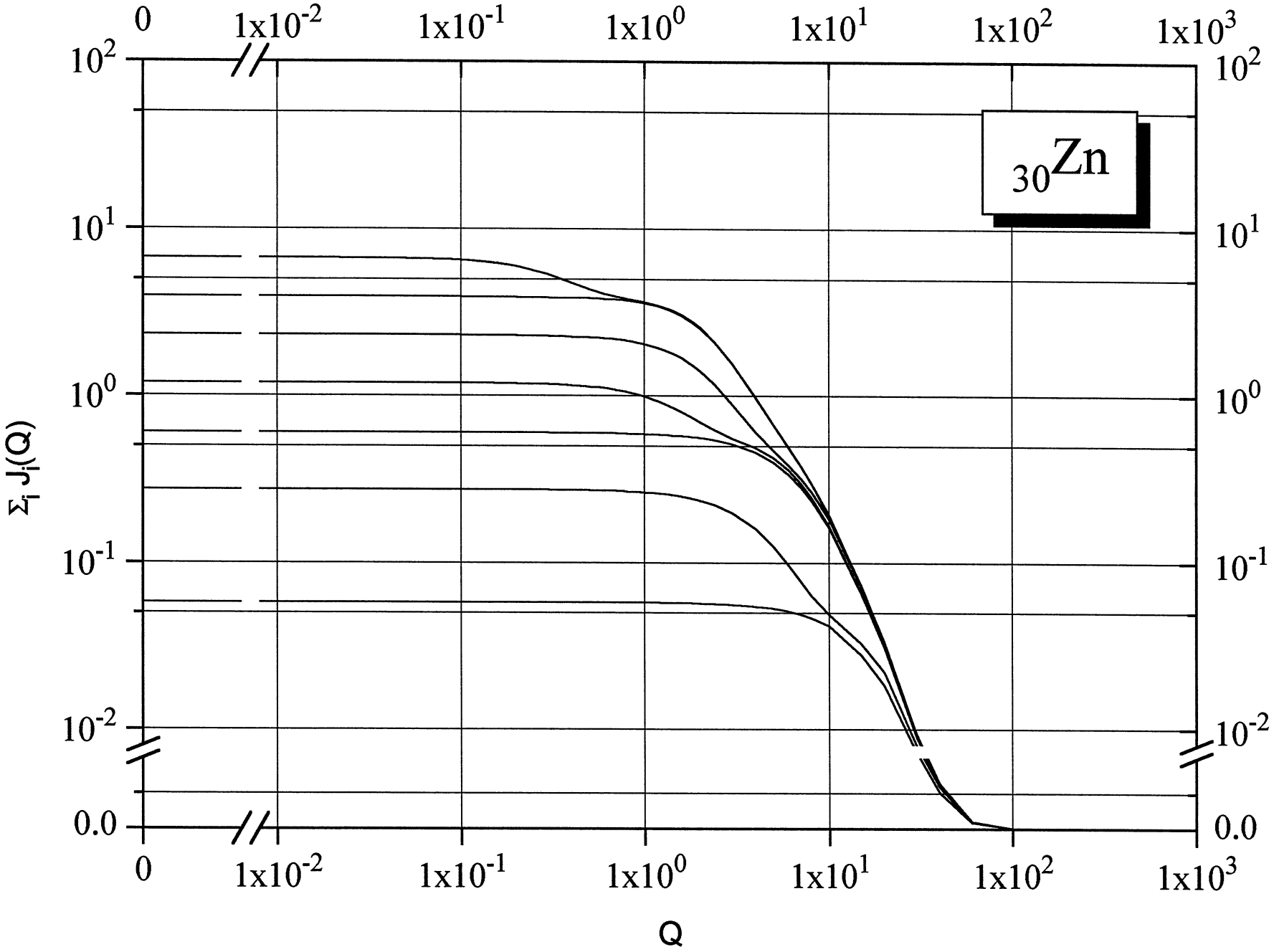
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	Total
0.0E+00	2.90E-02	1.08E-01	5.49E-02	2.99E-01	1.86E-01	1.62E-01	1.41E+00	6.76E+00
5.0E-02	2.90E-02	1.08E-01	5.49E-02	2.99E-01	1.86E-01	1.62E-01	1.38E+00	6.70E+00
1.0E-01	2.90E-02	1.08E-01	5.49E-02	2.98E-01	1.86E-01	1.62E-01	1.30E+00	6.55E+00
1.5E-01	2.90E-02	1.08E-01	5.49E-02	2.97E-01	1.86E-01	1.62E-01	1.18E+00	6.30E+00
2.0E-01	2.90E-02	1.08E-01	5.49E-02	2.94E-01	1.86E-01	1.62E-01	1.04E+00	6.01E+00
3.0E-01	2.90E-02	1.08E-01	5.49E-02	2.89E-01	1.85E-01	1.62E-01	7.21E-01	5.36E+00
4.0E-01	2.90E-02	1.07E-01	5.49E-02	2.81E-01	1.85E-01	1.62E-01	4.46E-01	4.79E+00
5.0E-01	2.90E-02	1.07E-01	5.49E-02	2.71E-01	1.85E-01	1.62E-01	2.51E-01	4.38E+00
6.0E-01	2.90E-02	1.06E-01	5.49E-02	2.59E-01	1.84E-01	1.62E-01	1.32E-01	4.11E+00
7.0E-01	2.90E-02	1.06E-01	5.49E-02	2.46E-01	1.83E-01	1.61E-01	6.87E-02	3.94E+00
8.0E-01	2.90E-02	1.05E-01	5.49E-02	2.32E-01	1.81E-01	1.60E-01	3.83E-02	3.83E+00
1.0E+00	2.89E-02	1.03E-01	5.49E-02	2.01E-01	1.76E-01	1.57E-01	2.16E-02	3.66E+00
1.2E+00	2.89E-02	1.01E-01	5.48E-02	1.70E-01	1.69E-01	1.51E-01	2.06E-02	3.49E+00
1.4E+00	2.88E-02	9.85E-02	5.48E-02	1.40E-01	1.59E-01	1.43E-01	1.98E-02	3.29E+00
1.6E+00	2.88E-02	9.58E-02	5.47E-02	1.13E-01	1.47E-01	1.34E-01	1.72E-02	3.06E+00
1.8E+00	2.87E-02	9.28E-02	5.46E-02	8.85E-02	1.34E-01	1.24E-01	1.38E-02	2.82E+00
2.0E+00	2.86E-02	8.96E-02	5.45E-02	6.85E-02	1.20E-01	1.14E-01	1.05E-02	2.58E+00
2.4E+00	2.84E-02	8.26E-02	5.41E-02	4.00E-02	9.15E-02	9.33E-02	5.45E-03	2.12E+00
3.0E+00	2.81E-02	7.13E-02	5.31E-02	2.00E-02	5.53E-02	6.71E-02	1.83E-03	1.56E+00
4.0E+00	2.74E-02	5.24E-02	5.03E-02	1.42E-02	1.99E-02	3.70E-02	6.24E-04	9.81E-01
5.0E+00	2.66E-02	3.58E-02	4.60E-02	1.36E-02	7.14E-03	2.01E-02	5.98E-04	6.72E-01
6.0E+00	2.56E-02	2.30E-02	4.06E-02	1.09E-02	3.94E-03	1.09E-02	4.97E-04	4.96E-01
7.0E+00	2.45E-02	1.41E-02	3.47E-02	7.27E-03	3.53E-03	5.94E-03	3.43E-04	3.81E-01
8.0E+00	2.33E-02	8.47E-03	2.89E-02	4.34E-03	3.50E-03	3.30E-03	2.07E-04	3.00E-01
1.0E+01	2.10E-02	3.50E-03	1.90E-02	1.30E-03	2.90E-03	1.10E-03	6.10E-05	1.90E-01
1.5E+01	1.40E-02	2.40E-03	5.40E-03	3.50E-04	9.30E-04	8.90E-05	1.40E-05	7.30E-02
2.0E+01	9.20E-03	1.90E-03	1.50E-03	2.90E-04	2.60E-04	1.10E-05	1.20E-05	3.30E-02
3.0E+01	3.40E-03	6.20E-04	1.60E-04	9.70E-05	2.50E-05	4.30E-07	3.90E-06	9.40E-03
4.0E+01	1.30E-03	1.90E-04	2.50E-05	3.00E-05	3.80E-06	3.40E-08	1.20E-06	3.10E-03
6.0E+01	2.20E-04	2.70E-05	1.40E-06	4.00E-06	2.10E-07	8.10E-10	1.60E-07	5.00E-04
1.0E+02	1.50E-05	1.60E-06	3.00E-08	2.30E-07	4.30E-09	6.20E-12	9.40E-09	3.40E-05
E[keV]:	9.66E+00	1.20E+00	1.03E+00	1.40E-01	8.96E-02	1.02E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	Total
0.0E+00	5.80E-02	2.74E-01	6.03E-01	1.20E+00	2.32E+00	3.94E+00	6.76E+00	6.76E+00
5.0E-02	5.80E-02	2.74E-01	6.03E-01	1.20E+00	2.32E+00	3.94E+00	6.70E+00	6.70E+00
1.0E-01	5.80E-02	2.74E-01	6.03E-01	1.20E+00	2.32E+00	3.94E+00	6.54E+00	6.55E+00
1.5E-01	5.80E-02	2.74E-01	6.03E-01	1.20E+00	2.31E+00	3.93E+00	6.29E+00	6.30E+00
2.0E-01	5.80E-02	2.74E-01	6.03E-01	1.19E+00	2.31E+00	3.93E+00	6.01E+00	6.01E+00
3.0E-01	5.80E-02	2.74E-01	6.03E-01	1.18E+00	2.29E+00	3.91E+00	5.35E+00	5.36E+00
4.0E-01	5.80E-02	2.72E-01	6.01E-01	1.16E+00	2.27E+00	3.89E+00	4.79E+00	4.79E+00
5.0E-01	5.80E-02	2.72E-01	6.01E-01	1.14E+00	2.25E+00	3.87E+00	4.38E+00	4.38E+00
6.0E-01	5.80E-02	2.70E-01	5.99E-01	1.12E+00	2.22E+00	3.84E+00	4.11E+00	4.11E+00
7.0E-01	5.80E-02	2.70E-01	5.99E-01	1.09E+00	2.19E+00	3.80E+00	3.94E+00	3.94E+00
8.0E-01	5.80E-02	2.68E-01	5.97E-01	1.06E+00	2.15E+00	3.75E+00	3.82E+00	3.83E+00
1.0E+00	5.78E-02	2.64E-01	5.93E-01	9.95E-01	2.05E+00	3.62E+00	3.66E+00	3.66E+00
1.2E+00	5.78E-02	2.60E-01	5.89E-01	9.29E-01	1.94E+00	3.45E+00	3.49E+00	3.49E+00
1.4E+00	5.76E-02	2.55E-01	5.83E-01	8.63E-01	1.82E+00	3.25E+00	3.29E+00	3.29E+00
1.6E+00	5.76E-02	2.49E-01	5.77E-01	8.03E-01	1.69E+00	3.03E+00	3.06E+00	3.06E+00
1.8E+00	5.74E-02	2.43E-01	5.71E-01	7.48E-01	1.55E+00	2.79E+00	2.82E+00	2.82E+00
2.0E+00	5.72E-02	2.36E-01	5.63E-01	7.00E-01	1.42E+00	2.56E+00	2.58E+00	2.58E+00
2.4E+00	5.68E-02	2.22E-01	5.47E-01	6.27E-01	1.18E+00	2.11E+00	2.12E+00	2.12E+00
3.0E+00	5.62E-02	1.99E-01	5.17E-01	5.57E-01	8.89E-01	1.56E+00	1.56E+00	1.56E+00
4.0E+00	5.48E-02	1.60E-01	4.61E-01	4.90E-01	6.09E-01	9.79E-01	9.80E-01	9.81E-01
5.0E+00	5.32E-02	1.25E-01	4.01E-01	4.28E-01	4.71E-01	6.72E-01	6.73E-01	6.72E-01
6.0E+00	5.12E-02	9.72E-02	3.41E-01	3.63E-01	3.86E-01	4.95E-01	4.96E-01	4.96E-01
7.0E+00	4.90E-02	7.72E-02	2.85E-01	3.00E-01	3.21E-01	3.81E-01	3.81E-01	3.81E-01
8.0E+00	4.66E-02	6.35E-02	2.37E-01	2.46E-01	2.67E-01	3.00E-01	3.00E-01	3.00E-01
1.0E+01	4.20E-02	4.90E-02	1.63E-01	1.66E-01	1.83E-01	1.94E-01	1.94E-01	1.90E-01
1.5E+01	2.80E-02	3.28E-02	6.52E-02	6.59E-02	7.15E-02	7.24E-02	7.24E-02	7.30E-02
2.0E+01	1.84E-02	2.22E-02	3.12E-02	3.18E-02	3.33E-02	3.35E-02	3.35E-02	3.30E-02
3.0E+01	6.80E-03	8.04E-03	9.00E-03	9.19E-03	9.34E-03	9.35E-03	9.36E-03	9.40E-03
4.0E+01	2.60E-03	2.98E-03	3.13E-03	3.19E-03	3.21E-03	3.21E-03	3.22E-03	3.10E-03
6.0E+01	4.40E-04	4.94E-04	5.02E-04	5.10E-04	5.12E-04	5.12E-04	5.12E-04	5.00E-04
1.0E+02	3.00E-05	3.32E-05	3.34E-05	3.38E-05	3.39E-05	3.39E-05	3.39E-05	3.40E-05
E[keV]:	9.66E+00	1.20E+00	1.03E+00	1.40E-01	8.96E-02	1.02E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	2.82E+00	4.44E+00	5.56E+00	6.15E+00	6.48E+00	6.70E+00	6.76E+00	6.76E+00
5.0E-02	2.76E+00	4.38E+00	5.50E+00	6.09E+00	6.42E+00	6.64E+00	6.70E+00	6.70E+00
1.0E-01	2.60E+00	4.22E+00	5.34E+00	5.93E+00	6.26E+00	6.48E+00	6.54E+00	6.55E+00
1.5E-01	2.36E+00	3.98E+00	5.10E+00	5.69E+00	6.02E+00	6.24E+00	6.29E+00	6.30E+00
2.0E-01	2.08E+00	3.70E+00	4.82E+00	5.40E+00	5.73E+00	5.95E+00	6.01E+00	6.01E+00
3.0E-01	1.44E+00	3.06E+00	4.17E+00	4.75E+00	5.08E+00	5.30E+00	5.35E+00	5.36E+00
4.0E-01	8.92E-01	2.51E+00	3.62E+00	4.18E+00	4.51E+00	4.73E+00	4.79E+00	4.79E+00
5.0E-01	5.02E-01	2.12E+00	3.23E+00	3.77E+00	4.10E+00	4.32E+00	4.38E+00	4.38E+00
6.0E-01	2.64E-01	1.88E+00	2.99E+00	3.51E+00	3.84E+00	4.05E+00	4.11E+00	4.11E+00
7.0E-01	1.37E-01	1.75E+00	2.85E+00	3.34E+00	3.67E+00	3.88E+00	3.94E+00	3.94E+00
8.0E-01	7.66E-02	1.68E+00	2.76E+00	3.23E+00	3.56E+00	3.77E+00	3.82E+00	3.83E+00
1.0E+00	4.32E-02	1.61E+00	2.67E+00	3.07E+00	3.40E+00	3.61E+00	3.66E+00	3.66E+00
1.2E+00	4.12E-02	1.55E+00	2.57E+00	2.91E+00	3.23E+00	3.44E+00	3.49E+00	3.49E+00
1.4E+00	3.96E-02	1.47E+00	2.42E+00	2.70E+00	3.03E+00	3.23E+00	3.29E+00	3.29E+00
1.6E+00	3.44E-02	1.37E+00	2.26E+00	2.48E+00	2.81E+00	3.00E+00	3.06E+00	3.06E+00
1.8E+00	2.76E-02	1.27E+00	2.07E+00	2.25E+00	2.58E+00	2.76E+00	2.82E+00	2.82E+00
2.0E+00	2.10E-02	1.16E+00	1.88E+00	2.02E+00	2.35E+00	2.52E+00	2.58E+00	2.58E+00
2.4E+00	1.09E-02	9.44E-01	1.49E+00	1.57E+00	1.90E+00	2.06E+00	2.12E+00	2.12E+00
3.0E+00	3.66E-03	6.75E-01	1.01E+00	1.05E+00	1.37E+00	1.51E+00	1.56E+00	1.56E+00
4.0E+00	1.25E-03	3.71E-01	4.91E-01	5.19E-01	8.21E-01	9.26E-01	9.80E-01	9.81E-01
5.0E+00	1.18E-03	2.02E-01	2.45E-01	2.72E-01	5.48E-01	6.20E-01	6.73E-01	6.72E-01
6.0E+00	9.94E-04	1.10E-01	1.34E-01	1.55E-01	3.99E-01	4.45E-01	4.96E-01	4.96E-01
7.0E+00	6.86E-04	6.01E-02	8.13E-02	9.58E-02	3.04E-01	3.32E-01	3.81E-01	3.81E-01
8.0E+00	4.14E-04	3.34E-02	5.44E-02	6.31E-02	2.36E-01	2.53E-01	3.00E-01	3.00E-01
1.0E+01	1.22E-04	1.11E-02	2.85E-02	3.11E-02	1.45E-01	1.52E-01	1.94E-01	1.90E-01
1.5E+01	2.80E-05	9.18E-04	6.50E-03	7.20E-03	3.96E-02	4.44E-02	7.24E-02	7.30E-02
2.0E+01	2.40E-05	1.34E-04	1.69E-03	2.27E-03	1.13E-02	1.51E-02	3.35E-02	3.30E-02
3.0E+01	7.80E-06	1.21E-05	1.62E-04	3.56E-04	1.32E-03	2.56E-03	9.36E-03	9.40E-03
4.0E+01	2.40E-06	2.74E-06	2.55E-05	8.55E-05	2.36E-04	6.16E-04	3.22E-03	3.10E-03
6.0E+01	3.20E-07	3.28E-07	1.59E-06	9.59E-06	1.80E-05	7.20E-05	5.12E-04	5.00E-04
1.0E+02	1.88E-08	1.89E-08	4.47E-08	5.05E-07	6.85E-07	3.88E-06	3.39E-05	3.40E-05
E[keV]:	0.00E+00	1.02E-02	8.96E-02	1.40E-01	1.03E+00	1.20E+00	9.66E+00	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1x10^2
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10^1
10^0
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10^-2
0.0
30Zn
Σ_i J_i(Q)
Q

Z=31

Compton profiles for the single orbitals and binding energies

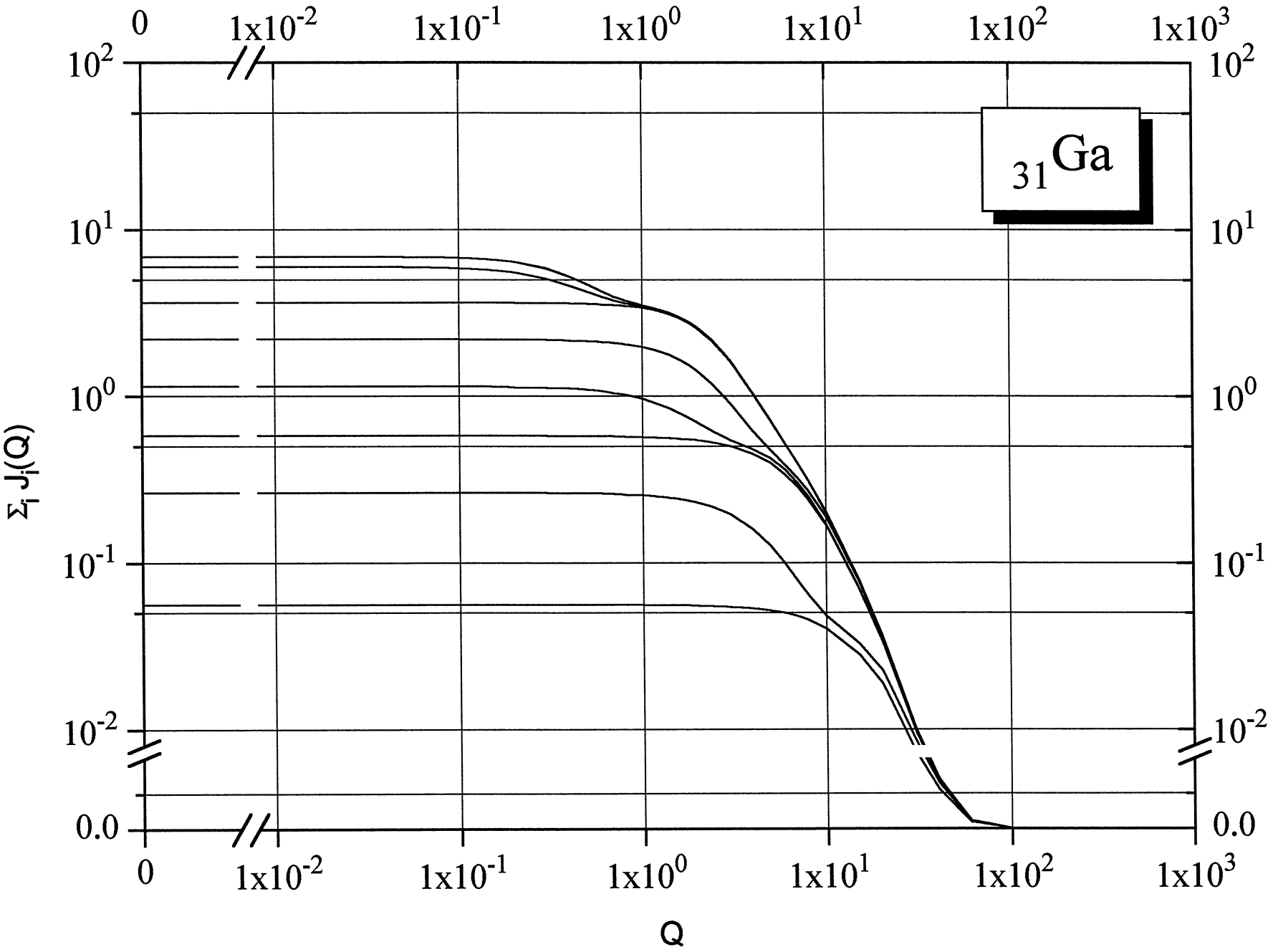
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(1)	Total
0.0E+00	2.81E-02	1.04E-01	5.28E-02	2.85E-01	1.76E-01	1.46E-01	1.18E+00	9.15E-01	6.93E+00
5.0E-02	2.81E-02	1.04E-01	5.28E-02	2.84E-01	1.76E-01	1.46E-01	1.16E+00	9.14E-01	6.90E+00
1.0E-01	2.81E-02	1.04E-01	5.28E-02	2.84E-01	1.76E-01	1.46E-01	1.11E+00	9.12E-01	6.80E+00
1.5E-01	2.81E-02	1.04E-01	5.28E-02	2.82E-01	1.76E-01	1.46E-01	1.04E+00	9.01E-01	6.63E+00
2.0E-01	2.81E-02	1.04E-01	5.28E-02	2.81E-01	1.76E-01	1.46E-01	9.44E-01	8.76E-01	6.42E+00
3.0E-01	2.81E-02	1.04E-01	5.28E-02	2.75E-01	1.76E-01	1.46E-01	7.23E-01	7.73E-01	5.86E+00
4.0E-01	2.81E-02	1.03E-01	5.28E-02	2.69E-01	1.75E-01	1.46E-01	5.06E-01	6.18E-01	5.26E+00
5.0E-01	2.80E-02	1.03E-01	5.28E-02	2.60E-01	1.75E-01	1.46E-01	3.27E-01	4.52E-01	4.71E+00
6.0E-01	2.80E-02	1.03E-01	5.28E-02	2.50E-01	1.75E-01	1.45E-01	1.98E-01	3.09E-01	4.29E+00
7.0E-01	2.80E-02	1.02E-01	5.28E-02	2.38E-01	1.74E-01	1.45E-01	1.16E-01	2.01E-01	3.98E+00
8.0E-01	2.80E-02	1.01E-01	5.28E-02	2.26E-01	1.73E-01	1.45E-01	6.73E-02	1.26E-01	3.77E+00
1.0E+00	2.80E-02	9.97E-02	5.28E-02	1.99E-01	1.69E-01	1.43E-01	3.02E-02	4.64E-02	3.52E+00
1.2E+00	2.79E-02	9.78E-02	5.28E-02	1.70E-01	1.63E-01	1.40E-01	2.44E-02	1.68E-02	3.35E+00
1.4E+00	2.79E-02	9.56E-02	5.27E-02	1.43E-01	1.55E-01	1.35E-01	2.41E-02	7.12E-03	3.18E+00
1.6E+00	2.78E-02	9.31E-02	5.27E-02	1.17E-01	1.45E-01	1.29E-01	2.27E-02	4.47E-03	3.00E+00
1.8E+00	2.78E-02	9.04E-02	5.26E-02	9.34E-02	1.33E-01	1.22E-01	1.96E-02	3.98E-03	2.80E+00
2.0E+00	2.77E-02	8.75E-02	5.25E-02	7.36E-02	1.21E-01	1.14E-01	1.58E-02	3.95E-03	2.59E+00
2.4E+00	2.75E-02	8.11E-02	5.21E-02	4.43E-02	9.52E-02	9.71E-02	8.99E-03	3.67E-03	2.18E+00
3.0E+00	2.72E-02	7.07E-02	5.13E-02	2.19E-02	6.02E-02	7.29E-02	3.22E-03	2.55E-03	1.65E+00
4.0E+00	2.66E-02	5.30E-02	4.89E-02	1.39E-02	2.33E-02	4.24E-02	8.91E-04	9.81E-04	1.05E+00
5.0E+00	2.59E-02	3.71E-02	4.51E-02	1.36E-02	8.50E-03	2.38E-02	7.84E-04	3.26E-04	7.15E-01
6.0E+00	2.50E-02	2.45E-02	4.03E-02	1.14E-02	4.24E-03	1.33E-02	7.01E-04	1.31E-04	5.24E-01
7.0E+00	2.39E-02	1.54E-02	3.49E-02	8.02E-03	3.51E-03	7.47E-03	5.12E-04	9.21E-05	4.01E-01
8.0E+00	2.28E-02	9.45E-03	2.95E-02	5.01E-03	3.48E-03	4.24E-03	3.25E-04	8.92E-05	3.15E-01
1.0E+01	2.00E-02	3.90E-03	2.00E-02	1.60E-03	3.00E-03	1.40E-03	1.00E-04	8.00E-05	2.00E-01
1.5E+01	1.40E-02	2.30E-03	6.00E-03	3.50E-04	1.10E-03	1.20E-04	1.90E-05	2.90E-05	7.80E-02
2.0E+01	9.40E-03	1.90E-03	1.80E-03	3.00E-04	3.10E-04	1.60E-05	1.70E-05	8.30E-06	3.60E-02
3.0E+01	3.60E-03	6.80E-04	1.90E-04	1.10E-04	3.20E-05	6.40E-07	6.00E-06	8.50E-07	1.00E-02
4.0E+01	1.40E-03	2.20E-04	3.10E-05	3.40E-05	4.80E-06	5.20E-08	1.90E-06	1.30E-07	3.50E-03
6.0E+01	2.40E-04	3.10E-05	1.80E-06	4.70E-06	2.70E-07	1.30E-09	2.60E-07	7.10E-09	5.70E-04
1.0E+02	1.80E-05	1.90E-06	3.90E-08	2.80E-07	5.60E-09	1.00E-11	1.50E-08	1.50E-10	4.00E-05
E[keV]:	1.04E+01	1.30E+00	1.13E+00	1.58E-01	1.04E-01	1.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(1)	Total
0.0E+00	5.62E-02	2.64E-01	5.81E-01	1.15E+00	2.21E+00	3.67E+00	6.03E+00	6.94E+00	6.93E+00
5.0E-02	5.62E-02	2.64E-01	5.81E-01	1.15E+00	2.21E+00	3.67E+00	5.99E+00	6.90E+00	6.90E+00
1.0E-01	5.62E-02	2.64E-01	5.81E-01	1.15E+00	2.21E+00	3.67E+00	5.89E+00	6.80E+00	6.80E+00
1.5E-01	5.62E-02	2.64E-01	5.81E-01	1.15E+00	2.20E+00	3.66E+00	5.74E+00	6.64E+00	6.63E+00
2.0E-01	5.62E-02	2.64E-01	5.81E-01	1.14E+00	2.20E+00	3.66E+00	5.55E+00	6.42E+00	6.42E+00
3.0E-01	5.62E-02	2.64E-01	5.81E-01	1.13E+00	2.19E+00	3.65E+00	5.09E+00	5.87E+00	5.86E+00
4.0E-01	5.62E-02	2.62E-01	5.79E-01	1.12E+00	2.17E+00	3.63E+00	4.64E+00	5.26E+00	5.26E+00
5.0E-01	5.60E-02	2.62E-01	5.79E-01	1.10E+00	2.15E+00	3.61E+00	4.26E+00	4.71E+00	4.71E+00
6.0E-01	5.60E-02	2.62E-01	5.79E-01	1.08E+00	2.13E+00	3.58E+00	3.97E+00	4.28E+00	4.29E+00
7.0E-01	5.60E-02	2.60E-01	5.77E-01	1.05E+00	2.10E+00	3.55E+00	3.78E+00	3.98E+00	3.98E+00
8.0E-01	5.60E-02	2.58E-01	5.75E-01	1.03E+00	2.06E+00	3.51E+00	3.65E+00	3.78E+00	3.77E+00
1.0E+00	5.60E-02	2.55E-01	5.72E-01	9.70E-01	1.98E+00	3.41E+00	3.47E+00	3.52E+00	3.52E+00
1.2E+00	5.58E-02	2.51E-01	5.68E-01	9.08E-01	1.89E+00	3.29E+00	3.34E+00	3.35E+00	3.35E+00
1.4E+00	5.58E-02	2.47E-01	5.63E-01	8.49E-01	1.78E+00	3.13E+00	3.18E+00	3.18E+00	3.18E+00
1.6E+00	5.56E-02	2.42E-01	5.58E-01	7.92E-01	1.66E+00	2.95E+00	3.00E+00	3.00E+00	3.00E+00
1.8E+00	5.56E-02	2.36E-01	5.52E-01	7.39E-01	1.54E+00	2.76E+00	2.80E+00	2.80E+00	2.80E+00
2.0E+00	5.54E-02	2.30E-01	5.45E-01	6.93E-01	1.42E+00	2.56E+00	2.59E+00	2.59E+00	2.59E+00
2.4E+00	5.50E-02	2.17E-01	5.30E-01	6.18E-01	1.19E+00	2.16E+00	2.18E+00	2.18E+00	2.18E+00
3.0E+00	5.44E-02	1.96E-01	5.04E-01	5.47E-01	9.09E-01	1.64E+00	1.64E+00	1.65E+00	1.65E+00
4.0E+00	5.32E-02	1.59E-01	4.53E-01	4.80E-01	6.20E-01	1.04E+00	1.05E+00	1.05E+00	1.05E+00
5.0E+00	5.18E-02	1.26E-01	3.97E-01	4.24E-01	4.75E-01	7.13E-01	7.14E-01	7.15E-01	7.15E-01
6.0E+00	5.00E-02	9.90E-02	3.41E-01	3.64E-01	3.89E-01	5.22E-01	5.23E-01	5.24E-01	5.24E-01
7.0E+00	4.78E-02	7.86E-02	2.88E-01	3.04E-01	3.25E-01	4.00E-01	4.01E-01	4.01E-01	4.01E-01
8.0E+00	4.56E-02	6.45E-02	2.42E-01	2.52E-01	2.72E-01	3.15E-01	3.15E-01	3.16E-01	3.15E-01
1.0E+01	4.00E-02	4.78E-02	1.68E-01	1.71E-01	1.89E-01	2.03E-01	2.03E-01	2.03E-01	2.00E-01
1.5E+01	2.80E-02	3.26E-02	6.86E-02	6.93E-02	7.59E-02	7.71E-02	7.71E-02	7.72E-02	7.80E-02
2.0E+01	1.88E-02	2.26E-02	3.34E-02	3.40E-02	3.59E-02	3.60E-02	3.61E-02	3.61E-02	3.60E-02
3.0E+01	7.20E-03	8.56E-03	9.70E-03	9.92E-03	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.00E-02
4.0E+01	2.80E-03	3.24E-03	3.43E-03	3.49E-03	3.52E-03	3.52E-03	3.53E-03	3.53E-03	3.50E-03
6.0E+01	4.80E-04	5.42E-04	5.53E-04	5.62E-04	5.64E-04	5.64E-04	5.64E-04	5.64E-04	5.70E-04
1.0E+02	3.60E-05	3.98E-05	4.00E-05	4.06E-05	4.06E-05	4.06E-05	4.07E-05	4.07E-05	4.00E-05
E[keV]:	1.04E+01	1.30E+00	1.13E+00	1.58E-01	1.04E-01	1.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	3.28E+00	4.74E+00	5.79E+00	6.36E+00	6.68E+00	6.89E+00	6.94E+00	6.93E+00
5.0E-02	3.23E+00	4.69E+00	5.75E+00	6.32E+00	6.63E+00	6.84E+00	6.90E+00	6.90E+00
1.0E-01	3.13E+00	4.59E+00	5.65E+00	6.22E+00	6.53E+00	6.74E+00	6.80E+00	6.80E+00
1.5E-01	2.98E+00	4.44E+00	5.50E+00	6.06E+00	6.38E+00	6.59E+00	6.64E+00	6.63E+00
2.0E-01	2.76E+00	4.22E+00	5.28E+00	5.84E+00	6.16E+00	6.37E+00	6.42E+00	6.42E+00
3.0E-01	2.22E+00	3.68E+00	4.74E+00	5.29E+00	5.60E+00	5.81E+00	5.87E+00	5.86E+00
4.0E-01	1.63E+00	3.09E+00	4.14E+00	4.68E+00	4.99E+00	5.20E+00	5.26E+00	5.26E+00
5.0E-01	1.11E+00	2.57E+00	3.62E+00	4.14E+00	4.45E+00	4.66E+00	4.71E+00	4.71E+00
6.0E-01	7.05E-01	2.16E+00	3.21E+00	3.71E+00	4.02E+00	4.23E+00	4.28E+00	4.29E+00
7.0E-01	4.33E-01	1.88E+00	2.93E+00	3.40E+00	3.72E+00	3.92E+00	3.98E+00	3.98E+00
8.0E-01	2.61E-01	1.71E+00	2.75E+00	3.20E+00	3.52E+00	3.72E+00	3.78E+00	3.77E+00
1.0E+00	1.07E-01	1.54E+00	2.55E+00	2.95E+00	3.27E+00	3.47E+00	3.52E+00	3.52E+00
1.2E+00	6.56E-02	1.47E+00	2.44E+00	2.78E+00	3.10E+00	3.30E+00	3.35E+00	3.35E+00
1.4E+00	5.53E-02	1.41E+00	2.34E+00	2.62E+00	2.94E+00	3.13E+00	3.18E+00	3.18E+00
1.6E+00	4.99E-02	1.34E+00	2.21E+00	2.44E+00	2.76E+00	2.95E+00	3.00E+00	3.00E+00
1.8E+00	4.32E-02	1.26E+00	2.06E+00	2.25E+00	2.56E+00	2.74E+00	2.80E+00	2.80E+00
2.0E+00	3.56E-02	1.18E+00	1.90E+00	2.05E+00	2.36E+00	2.54E+00	2.59E+00	2.59E+00
2.4E+00	2.17E-02	9.93E-01	1.56E+00	1.65E+00	1.97E+00	2.13E+00	2.18E+00	2.18E+00
3.0E+00	8.99E-03	7.38E-01	1.10E+00	1.14E+00	1.45E+00	1.59E+00	1.65E+00	1.65E+00
4.0E+00	2.76E-03	4.27E-01	5.67E-01	5.94E-01	8.88E-01	9.94E-01	1.05E+00	1.05E+00
5.0E+00	1.89E-03	2.40E-01	2.91E-01	3.18E-01	5.89E-01	6.63E-01	7.15E-01	7.15E-01
6.0E+00	1.53E-03	1.35E-01	1.60E-01	1.83E-01	4.25E-01	4.74E-01	5.24E-01	5.24E-01
7.0E+00	1.12E-03	7.58E-02	9.69E-02	1.13E-01	3.22E-01	3.53E-01	4.01E-01	4.01E-01
8.0E+00	7.39E-04	4.31E-02	6.40E-02	7.40E-02	2.51E-01	2.70E-01	3.16E-01	3.15E-01
1.0E+01	2.80E-04	1.43E-02	3.23E-02	3.55E-02	1.55E-01	1.63E-01	2.03E-01	2.00E-01
1.5E+01	6.70E-05	1.27E-03	7.87E-03	8.57E-03	4.46E-02	4.92E-02	7.72E-02	7.80E-02
2.0E+01	4.23E-05	2.02E-04	2.06E-03	2.66E-03	1.35E-02	1.73E-02	3.61E-02	3.60E-02
3.0E+01	1.28E-05	1.92E-05	2.11E-04	4.31E-04	1.57E-03	2.93E-03	1.01E-02	1.00E-02
4.0E+01	3.93E-06	4.45E-06	3.32E-05	1.01E-04	2.87E-04	7.27E-04	3.53E-03	3.50E-03
6.0E+01	5.27E-07	5.40E-07	2.16E-06	1.16E-05	2.24E-05	8.44E-05	5.64E-04	5.70E-04
1.0E+02	3.01E-08	3.02E-08	6.39E-08	6.24E-07	8.58E-07	4.66E-06	4.07E-05	4.00E-05
E[keV]:	0.00E+00	1.80E-02	1.04E-01	1.58E-01	1.13E+00	1.30E+00	1.04E+01	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1x10^1
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1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
31Ga
Σi Ji(Q)
Q

Z=32

Compton profiles for the single orbitals and binding energies

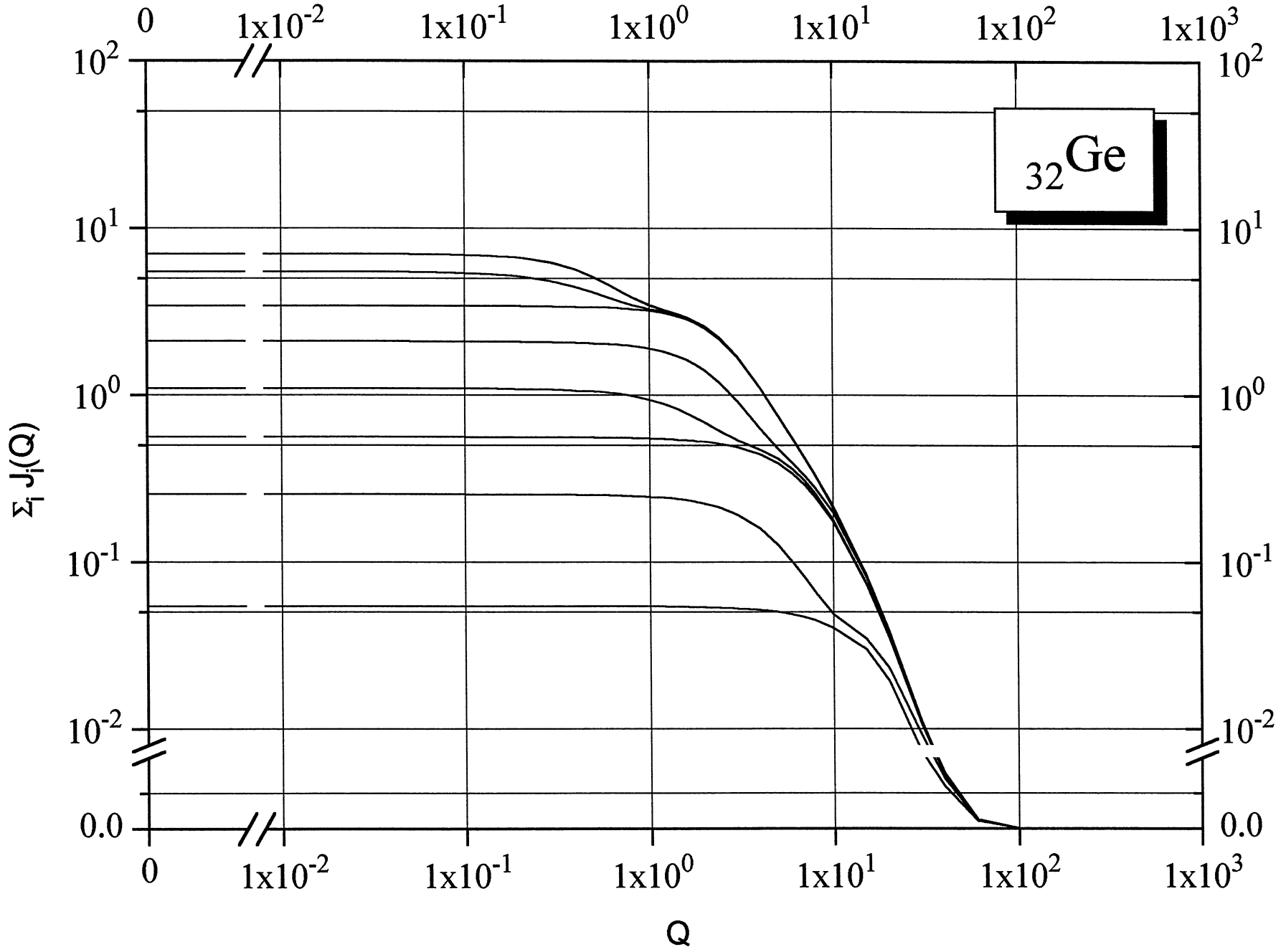
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(2)	Total
0.0E+00	2.72E-02	1.01E-01	5.09E-02	2.71E-01	1.67E-01	1.33E-01	1.03E+00	7.69E-01	7.03E+00
5.0E-02	2.72E-02	1.01E-01	5.09E-02	2.71E-01	1.67E-01	1.33E-01	1.02E+00	7.69E-01	7.01E+00
1.0E-01	2.72E-02	1.01E-01	5.09E-02	2.70E-01	1.67E-01	1.33E-01	9.85E-01	7.68E-01	6.94E+00
1.5E-01	2.72E-02	1.00E-01	5.09E-02	2.69E-01	1.67E-01	1.33E-01	9.34E-01	7.63E-01	6.82E+00
2.0E-01	2.72E-02	1.00E-01	5.09E-02	2.67E-01	1.67E-01	1.33E-01	8.66E-01	7.51E-01	6.66E+00
3.0E-01	2.72E-02	1.00E-01	5.09E-02	2.63E-01	1.67E-01	1.33E-01	7.02E-01	6.98E-01	6.21E+00
4.0E-01	2.72E-02	9.99E-02	5.09E-02	2.57E-01	1.66E-01	1.33E-01	5.27E-01	6.05E-01	5.66E+00
5.0E-01	2.72E-02	9.95E-02	5.09E-02	2.50E-01	1.66E-01	1.33E-01	3.71E-01	4.89E-01	5.10E+00
6.0E-01	2.71E-02	9.91E-02	5.09E-02	2.41E-01	1.66E-01	1.33E-01	2.46E-01	3.71E-01	4.60E+00
7.0E-01	2.71E-02	9.85E-02	5.09E-02	2.31E-01	1.65E-01	1.33E-01	1.56E-01	2.69E-01	4.19E+00
8.0E-01	2.71E-02	9.79E-02	5.09E-02	2.20E-01	1.64E-01	1.32E-01	9.71E-02	1.87E-01	3.87E+00
1.0E+00	2.71E-02	9.65E-02	5.09E-02	1.95E-01	1.61E-01	1.31E-01	4.15E-02	8.37E-02	3.48E+00
1.2E+00	2.71E-02	9.48E-02	5.09E-02	1.70E-01	1.56E-01	1.30E-01	2.77E-02	3.51E-02	3.25E+00
1.4E+00	2.70E-02	9.28E-02	5.08E-02	1.44E-01	1.50E-01	1.27E-01	2.62E-02	1.50E-02	3.09E+00
1.6E+00	2.70E-02	9.05E-02	5.08E-02	1.20E-01	1.42E-01	1.23E-01	2.58E-02	7.75E-03	2.93E+00
1.8E+00	2.69E-02	8.81E-02	5.07E-02	9.78E-02	1.32E-01	1.18E-01	2.38E-02	5.61E-03	2.76E+00
2.0E+00	2.68E-02	8.54E-02	5.06E-02	7.84E-02	1.21E-01	1.12E-01	2.04E-02	5.20E-03	2.58E+00
2.4E+00	2.67E-02	7.96E-02	5.03E-02	4.86E-02	9.80E-02	9.84E-02	1.28E-02	5.09E-03	2.22E+00
3.0E+00	2.64E-02	7.00E-02	4.96E-02	2.41E-02	6.48E-02	7.71E-02	5.01E-03	3.95E-03	1.72E+00
4.0E+00	2.59E-02	5.35E-02	4.75E-02	1.38E-02	2.70E-02	4.72E-02	1.21E-03	1.70E-03	1.11E+00
5.0E+00	2.52E-02	3.83E-02	4.42E-02	1.35E-02	1.01E-02	2.76E-02	9.38E-04	5.95E-04	7.59E-01
6.0E+00	2.43E-02	2.59E-02	3.99E-02	1.18E-02	4.70E-03	1.59E-02	8.80E-04	2.26E-04	5.53E-01
7.0E+00	2.34E-02	1.67E-02	3.50E-02	8.73E-03	3.53E-03	9.13E-03	6.80E-04	1.37E-04	4.22E-01
8.0E+00	2.24E-02	1.05E-02	2.99E-02	5.70E-03	3.44E-03	5.29E-03	4.53E-04	1.26E-04	3.31E-01
1.0E+01	2.00E-02	4.30E-03	2.10E-02	1.90E-03	3.10E-03	1.80E-03	1.50E-04	1.20E-04	2.10E-01
1.5E+01	1.50E-02	2.30E-03	6.60E-03	3.50E-04	1.20E-03	1.70E-04	2.30E-05	4.80E-05	8.30E-02
2.0E+01	9.70E-03	1.90E-03	2.00E-03	3.10E-04	3.60E-04	2.30E-05	2.10E-05	1.40E-05	3.80E-02
3.0E+01	3.90E-03	7.40E-04	2.30E-04	1.20E-04	3.90E-05	9.30E-07	8.10E-06	1.50E-06	1.10E-02
4.0E+01	1.50E-03	2.50E-04	3.80E-05	3.90E-05	6.10E-06	7.70E-08	2.60E-06	2.30E-07	3.90E-03
6.0E+01	2.80E-04	3.60E-05	2.20E-06	5.60E-06	3.40E-07	1.90E-09	3.70E-07	1.30E-08	6.50E-04
1.0E+02	2.00E-05	2.20E-06	4.80E-08	3.40E-07	7.20E-09	1.50E-11	2.20E-08	2.80E-10	4.70E-05
E[keV]:	1.11E+01	1.41E+00	1.23E+00	1.81E-01	1.24E-01	2.90E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(2)	Total
0.0E+00	5.44E-02	2.56E-01	5.62E-01	1.10E+00	2.11E+00	3.44E+00	5.50E+00	7.03E+00	7.03E+00
5.0E-02	5.44E-02	2.56E-01	5.62E-01	1.10E+00	2.11E+00	3.44E+00	5.48E+00	7.01E+00	7.01E+00
1.0E-01	5.44E-02	2.56E-01	5.62E-01	1.10E+00	2.10E+00	3.43E+00	5.40E+00	6.94E+00	6.94E+00
1.5E-01	5.44E-02	2.54E-01	5.60E-01	1.10E+00	2.10E+00	3.43E+00	5.30E+00	6.82E+00	6.82E+00
2.0E-01	5.44E-02	2.54E-01	5.60E-01	1.09E+00	2.10E+00	3.43E+00	5.16E+00	6.66E+00	6.66E+00
3.0E-01	5.44E-02	2.54E-01	5.60E-01	1.09E+00	2.09E+00	3.42E+00	4.82E+00	6.22E+00	6.21E+00
4.0E-01	5.44E-02	2.54E-01	5.60E-01	1.07E+00	2.07E+00	3.40E+00	4.45E+00	5.66E+00	5.66E+00
5.0E-01	5.44E-02	2.53E-01	5.59E-01	1.06E+00	2.05E+00	3.38E+00	4.13E+00	5.10E+00	5.10E+00
6.0E-01	5.42E-02	2.52E-01	5.58E-01	1.04E+00	2.04E+00	3.37E+00	3.86E+00	4.60E+00	4.60E+00
7.0E-01	5.42E-02	2.51E-01	5.57E-01	1.02E+00	2.01E+00	3.34E+00	3.65E+00	4.19E+00	4.19E+00
8.0E-01	5.42E-02	2.50E-01	5.55E-01	9.95E-01	1.98E+00	3.30E+00	3.49E+00	3.87E+00	3.87E+00
1.0E+00	5.42E-02	2.47E-01	5.53E-01	9.43E-01	1.91E+00	3.22E+00	3.30E+00	3.47E+00	3.48E+00
1.2E+00	5.42E-02	2.44E-01	5.49E-01	8.89E-01	1.82E+00	3.13E+00	3.18E+00	3.25E+00	3.25E+00
1.4E+00	5.40E-02	2.40E-01	5.44E-01	8.32E-01	1.73E+00	3.00E+00	3.05E+00	3.08E+00	3.08E+00
1.6E+00	5.40E-02	2.35E-01	5.40E-01	7.80E-01	1.63E+00	2.86E+00	2.91E+00	2.93E+00	2.93E+00
1.8E+00	5.38E-02	2.30E-01	5.34E-01	7.30E-01	1.52E+00	2.70E+00	2.75E+00	2.76E+00	2.76E+00
2.0E+00	5.36E-02	2.24E-01	5.28E-01	6.85E-01	1.41E+00	2.53E+00	2.57E+00	2.58E+00	2.58E+00
2.4E+00	5.34E-02	2.13E-01	5.14E-01	6.12E-01	1.20E+00	2.18E+00	2.21E+00	2.22E+00	2.22E+00
3.0E+00	5.28E-02	1.93E-01	4.90E-01	5.39E-01	9.27E-01	1.70E+00	1.71E+00	1.72E+00	1.72E+00
4.0E+00	5.18E-02	1.59E-01	4.44E-01	4.71E-01	6.33E-01	1.11E+00	1.11E+00	1.11E+00	1.11E+00
5.0E+00	5.04E-02	1.27E-01	3.92E-01	4.19E-01	4.80E-01	7.56E-01	7.58E-01	7.59E-01	7.59E-01
6.0E+00	4.86E-02	1.00E-01	3.40E-01	3.63E-01	3.92E-01	5.51E-01	5.52E-01	5.53E-01	5.53E-01
7.0E+00	4.68E-02	8.02E-02	2.90E-01	3.08E-01	3.29E-01	4.20E-01	4.22E-01	4.22E-01	4.22E-01
8.0E+00	4.48E-02	6.58E-02	2.45E-01	2.57E-01	2.77E-01	3.30E-01	3.31E-01	3.31E-01	3.31E-01
1.0E+01	4.00E-02	4.86E-02	1.75E-01	1.78E-01	1.97E-01	2.15E-01	2.15E-01	2.16E-01	2.10E-01
1.5E+01	3.00E-02	3.46E-02	7.42E-02	7.49E-02	8.21E-02	8.38E-02	8.38E-02	8.39E-02	8.30E-02
2.0E+01	1.94E-02	2.32E-02	3.52E-02	3.58E-02	3.80E-02	3.82E-02	3.83E-02	3.83E-02	3.80E-02
3.0E+01	7.80E-03	9.28E-03	1.07E-02	1.09E-02	1.11E-02	1.11E-02	1.12E-02	1.12E-02	1.10E-02
4.0E+01	3.00E-03	3.50E-03	3.73E-03	3.81E-03	3.84E-03	3.84E-03	3.85E-03	3.85E-03	3.90E-03
6.0E+01	5.60E-04	6.32E-04	6.45E-04	6.56E-04	6.58E-04	6.58E-04	6.59E-04	6.59E-04	6.50E-04
1.0E+02	4.00E-05	4.44E-05	4.47E-05	4.54E-05	4.54E-05	4.54E-05	4.55E-05	4.55E-05	4.70E-05
E[keV]:	1.11E+01	1.41E+00	1.23E+00	1.81E-01	1.24E-01	2.90E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	3.60E+00	4.93E+00	5.93E+00	6.47E+00	6.78E+00	6.98E+00	7.03E+00	7.03E+00
5.0E-02	3.58E+00	4.91E+00	5.91E+00	6.45E+00	6.76E+00	6.96E+00	7.01E+00	7.01E+00
1.0E-01	3.51E+00	4.84E+00	5.84E+00	6.38E+00	6.68E+00	6.89E+00	6.94E+00	6.94E+00
1.5E-01	3.39E+00	4.72E+00	5.73E+00	6.26E+00	6.57E+00	6.77E+00	6.82E+00	6.82E+00
2.0E-01	3.23E+00	4.56E+00	5.57E+00	6.10E+00	6.41E+00	6.61E+00	6.66E+00	6.66E+00
3.0E-01	2.80E+00	4.13E+00	5.13E+00	5.66E+00	5.96E+00	6.16E+00	6.22E+00	6.21E+00
4.0E-01	2.26E+00	3.59E+00	4.59E+00	5.10E+00	5.41E+00	5.61E+00	5.66E+00	5.66E+00
5.0E-01	1.72E+00	3.05E+00	4.05E+00	4.55E+00	4.85E+00	5.05E+00	5.10E+00	5.10E+00
6.0E-01	1.23E+00	2.56E+00	3.56E+00	4.04E+00	4.35E+00	4.55E+00	4.60E+00	4.60E+00
7.0E-01	8.50E-01	2.18E+00	3.17E+00	3.63E+00	3.94E+00	4.13E+00	4.19E+00	4.19E+00
8.0E-01	5.58E-01	1.89E+00	2.87E+00	3.31E+00	3.62E+00	3.81E+00	3.87E+00	3.87E+00
1.0E+00	2.50E-01	1.56E+00	2.53E+00	2.92E+00	3.22E+00	3.41E+00	3.47E+00	3.48E+00
1.2E+00	1.26E-01	1.43E+00	2.36E+00	2.70E+00	3.01E+00	3.20E+00	3.25E+00	3.25E+00
1.4E+00	8.24E-02	1.35E+00	2.25E+00	2.54E+00	2.85E+00	3.03E+00	3.08E+00	3.08E+00
1.6E+00	6.71E-02	1.30E+00	2.15E+00	2.39E+00	2.69E+00	2.87E+00	2.93E+00	2.93E+00
1.8E+00	5.88E-02	1.24E+00	2.03E+00	2.23E+00	2.53E+00	2.71E+00	2.76E+00	2.76E+00
2.0E+00	5.12E-02	1.17E+00	1.90E+00	2.05E+00	2.36E+00	2.53E+00	2.58E+00	2.58E+00
2.4E+00	3.58E-02	1.02E+00	1.61E+00	1.70E+00	2.01E+00	2.17E+00	2.22E+00	2.22E+00
3.0E+00	1.79E-02	7.89E-01	1.18E+00	1.23E+00	1.52E+00	1.66E+00	1.72E+00	1.72E+00
4.0E+00	5.82E-03	4.78E-01	6.40E-01	6.67E-01	9.52E-01	1.06E+00	1.11E+00	1.11E+00
5.0E+00	3.07E-03	2.79E-01	3.40E-01	3.67E-01	6.32E-01	7.08E-01	7.59E-01	7.59E-01
6.0E+00	2.21E-03	1.61E-01	1.89E-01	2.13E-01	4.52E-01	5.04E-01	5.53E-01	5.53E-01
7.0E+00	1.63E-03	9.29E-02	1.14E-01	1.32E-01	3.42E-01	3.75E-01	4.22E-01	4.22E-01
8.0E+00	1.16E-03	5.41E-02	7.47E-02	8.61E-02	2.65E-01	2.86E-01	3.31E-01	3.31E-01
1.0E+01	5.40E-04	1.85E-02	3.71E-02	4.09E-02	1.67E-01	1.76E-01	2.16E-01	2.10E-01
1.5E+01	1.42E-04	1.84E-03	9.04E-03	9.74E-03	4.93E-02	5.39E-02	8.39E-02	8.30E-02
2.0E+01	7.00E-05	3.00E-04	2.46E-03	3.08E-03	1.51E-02	1.89E-02	3.83E-02	3.80E-02
3.0E+01	1.92E-05	2.85E-05	2.63E-04	5.03E-04	1.88E-03	3.36E-03	1.12E-02	1.10E-02
4.0E+01	5.66E-06	6.43E-06	4.30E-05	1.21E-04	3.49E-04	8.49E-04	3.85E-03	3.90E-03
6.0E+01	7.66E-07	7.85E-07	2.83E-06	1.40E-05	2.72E-05	9.92E-05	6.59E-04	6.50E-04
1.0E+02	4.46E-08	4.47E-08	8.79E-08	7.68E-07	1.06E-06	5.46E-06	4.55E-05	4.70E-05
E[keV]:	0.00E+00	2.90E-02	1.24E-01	1.81E-01	1.23E+00	1.41E+00	1.11E+01	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1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
32Ge
Σi Ji(Q)
Q

Z=33

Compton profiles for the single orbitals and binding energies

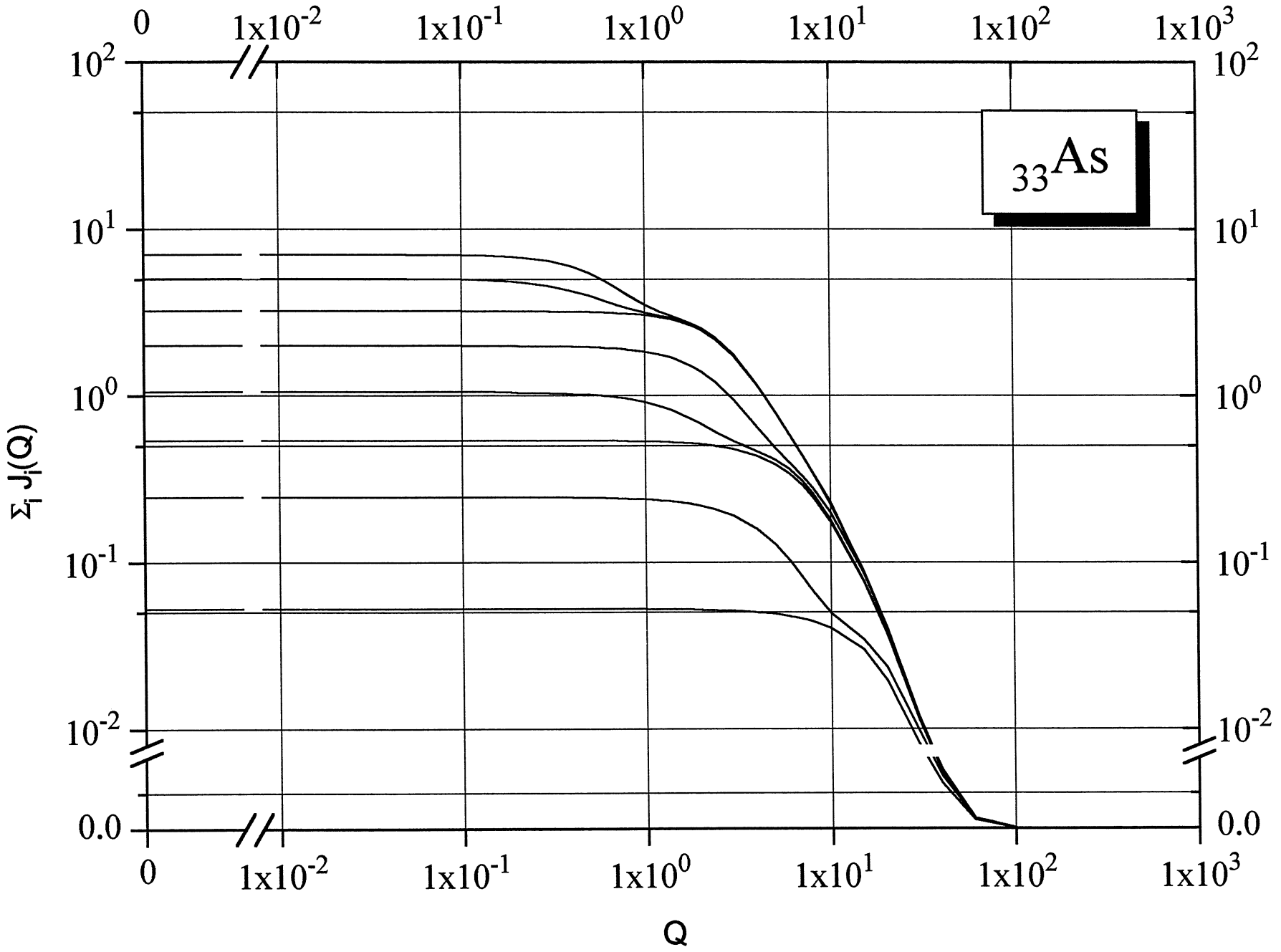
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(3)	Total
0.0E+00	2.63E-02	9.71E-02	4.91E-02	2.58E-01	1.58E-01	1.23E-01	9.22E-01	6.74E-01	7.10E+00
5.0E-02	2.63E-02	9.71E-02	4.91E-02	2.58E-01	1.58E-01	1.23E-01	9.14E-01	6.74E-01	7.08E+00
1.0E-01	2.63E-02	9.71E-02	4.91E-02	2.58E-01	1.58E-01	1.23E-01	8.90E-01	6.73E-01	7.03E+00
1.5E-01	2.63E-02	9.70E-02	4.91E-02	2.57E-01	1.58E-01	1.23E-01	8.52E-01	6.70E-01	6.94E+00
2.0E-01	2.63E-02	9.70E-02	4.91E-02	2.55E-01	1.58E-01	1.23E-01	8.01E-01	6.64E-01	6.82E+00
3.0E-01	2.63E-02	9.68E-02	4.91E-02	2.52E-01	1.58E-01	1.23E-01	6.73E-01	6.32E-01	6.46E+00
4.0E-01	2.63E-02	9.65E-02	4.91E-02	2.46E-01	1.58E-01	1.23E-01	5.31E-01	5.73E-01	5.99E+00
5.0E-01	2.63E-02	9.62E-02	4.91E-02	2.40E-01	1.58E-01	1.23E-01	3.96E-01	4.91E-01	5.46E+00
6.0E-01	2.63E-02	9.58E-02	4.91E-02	2.32E-01	1.58E-01	1.23E-01	2.80E-01	3.99E-01	4.93E+00
7.0E-01	2.63E-02	9.53E-02	4.91E-02	2.23E-01	1.57E-01	1.22E-01	1.90E-01	3.10E-01	4.46E+00
8.0E-01	2.63E-02	9.48E-02	4.91E-02	2.13E-01	1.56E-01	1.22E-01	1.25E-01	2.32E-01	4.07E+00
1.0E+00	2.63E-02	9.35E-02	4.91E-02	1.92E-01	1.54E-01	1.22E-01	5.52E-02	1.20E-01	3.53E+00
1.2E+00	2.62E-02	9.19E-02	4.91E-02	1.69E-01	1.50E-01	1.21E-01	3.21E-02	5.69E-02	3.21E+00
1.4E+00	2.62E-02	9.01E-02	4.91E-02	1.45E-01	1.45E-01	1.19E-01	2.75E-02	2.63E-02	3.01E+00
1.6E+00	2.61E-02	8.81E-02	4.90E-02	1.22E-01	1.38E-01	1.16E-01	2.73E-02	1.29E-02	2.85E+00
1.8E+00	2.61E-02	8.58E-02	4.90E-02	1.01E-01	1.30E-01	1.13E-01	2.64E-02	7.89E-03	2.71E+00
2.0E+00	2.60E-02	8.34E-02	4.89E-02	8.26E-02	1.21E-01	1.09E-01	2.39E-02	6.36E-03	2.55E+00
2.4E+00	2.59E-02	7.81E-02	4.87E-02	5.28E-02	9.99E-02	9.79E-02	1.65E-02	6.07E-03	2.24E+00
3.0E+00	2.57E-02	6.93E-02	4.81E-02	2.66E-02	6.89E-02	7.97E-02	7.19E-03	5.24E-03	1.77E+00
4.0E+00	2.51E-02	5.38E-02	4.63E-02	1.39E-02	3.07E-02	5.14E-02	1.65E-03	2.55E-03	1.17E+00
5.0E+00	2.45E-02	3.93E-02	4.33E-02	1.33E-02	1.20E-02	3.12E-02	1.07E-03	9.54E-04	8.04E-01
6.0E+00	2.37E-02	2.72E-02	3.95E-02	1.21E-02	5.32E-03	1.85E-02	1.03E-03	3.54E-04	5.83E-01
7.0E+00	2.29E-02	1.79E-02	3.50E-02	9.37E-03	3.62E-03	1.09E-02	8.45E-04	1.88E-04	4.44E-01
8.0E+00	2.20E-02	1.15E-02	3.02E-02	6.39E-03	3.41E-03	6.46E-03	5.90E-04	1.60E-04	3.48E-01
1.0E+01	2.00E-02	4.70E-03	2.10E-02	2.30E-03	3.20E-03	2.30E-03	2.20E-04	1.50E-04	2.30E-01
1.5E+01	1.50E-02	2.20E-03	7.20E-03	3.50E-04	1.40E-03	2.30E-04	2.70E-05	6.80E-05	8.80E-02
2.0E+01	9.90E-03	2.00E-03	2.30E-03	3.20E-04	4.30E-04	3.20E-05	2.50E-05	2.10E-05	4.10E-02
3.0E+01	4.10E-03	8.00E-04	2.70E-04	1.30E-04	4.80E-05	1.30E-06	1.00E-05	2.40E-06	1.20E-02
4.0E+01	1.60E-03	2.70E-04	4.60E-05	4.50E-05	7.60E-06	1.10E-07	3.50E-06	3.70E-07	4.20E-03
6.0E+01	3.10E-04	4.10E-05	2.70E-06	6.50E-06	4.30E-07	2.80E-09	5.00E-07	2.10E-08	7.30E-04
1.0E+02	2.30E-05	2.60E-06	6.00E-08	4.00E-07	9.30E-09	2.10E-11	3.10E-08	4.60E-10	5.30E-05
E[keV]:	1.19E+01	1.53E+00	1.33E+00	2.04E-01	1.43E-01	4.20E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(3)	Total
0.0E+00	5.26E-02	2.47E-01	5.41E-01	1.06E+00	2.01E+00	3.24E+00	5.08E+00	7.10E+00	7.10E+00
5.0E-02	5.26E-02	2.47E-01	5.41E-01	1.06E+00	2.01E+00	3.24E+00	5.06E+00	7.09E+00	7.08E+00
1.0E-01	5.26E-02	2.47E-01	5.41E-01	1.06E+00	2.01E+00	3.24E+00	5.02E+00	7.03E+00	7.03E+00
1.5E-01	5.26E-02	2.47E-01	5.41E-01	1.06E+00	2.00E+00	3.23E+00	4.94E+00	6.95E+00	6.94E+00
2.0E-01	5.26E-02	2.47E-01	5.41E-01	1.05E+00	2.00E+00	3.23E+00	4.83E+00	6.82E+00	6.82E+00
3.0E-01	5.26E-02	2.46E-01	5.41E-01	1.04E+00	1.99E+00	3.22E+00	4.57E+00	6.46E+00	6.46E+00
4.0E-01	5.26E-02	2.46E-01	5.40E-01	1.03E+00	1.98E+00	3.21E+00	4.27E+00	5.99E+00	5.99E+00
5.0E-01	5.26E-02	2.45E-01	5.40E-01	1.02E+00	1.97E+00	3.20E+00	3.99E+00	5.46E+00	5.46E+00
6.0E-01	5.26E-02	2.44E-01	5.39E-01	1.00E+00	1.95E+00	3.18E+00	3.74E+00	4.94E+00	4.93E+00
7.0E-01	5.26E-02	2.43E-01	5.38E-01	9.84E-01	1.93E+00	3.15E+00	3.53E+00	4.46E+00	4.46E+00
8.0E-01	5.26E-02	2.42E-01	5.37E-01	9.63E-01	1.90E+00	3.12E+00	3.37E+00	4.06E+00	4.07E+00
1.0E+00	5.26E-02	2.40E-01	5.34E-01	9.18E-01	1.84E+00	3.06E+00	3.17E+00	3.53E+00	3.53E+00
1.2E+00	5.24E-02	2.36E-01	5.31E-01	8.69E-01	1.77E+00	2.98E+00	3.04E+00	3.21E+00	3.21E+00
1.4E+00	5.24E-02	2.33E-01	5.27E-01	8.17E-01	1.69E+00	2.88E+00	2.93E+00	3.01E+00	3.01E+00
1.6E+00	5.22E-02	2.28E-01	5.22E-01	7.66E-01	1.59E+00	2.75E+00	2.81E+00	2.85E+00	2.85E+00
1.8E+00	5.22E-02	2.24E-01	5.18E-01	7.20E-01	1.50E+00	2.63E+00	2.68E+00	2.71E+00	2.71E+00
2.0E+00	5.20E-02	2.19E-01	5.12E-01	6.77E-01	1.40E+00	2.49E+00	2.54E+00	2.56E+00	2.55E+00
2.4E+00	5.18E-02	2.08E-01	5.00E-01	6.06E-01	1.21E+00	2.18E+00	2.22E+00	2.24E+00	2.24E+00
3.0E+00	5.14E-02	1.90E-01	4.79E-01	5.32E-01	9.45E-01	1.74E+00	1.76E+00	1.77E+00	1.77E+00
4.0E+00	5.02E-02	1.58E-01	4.36E-01	4.63E-01	6.48E-01	1.16E+00	1.16E+00	1.17E+00	1.17E+00
5.0E+00	4.90E-02	1.28E-01	3.87E-01	4.14E-01	4.86E-01	7.98E-01	8.00E-01	8.03E-01	8.04E-01
6.0E+00	4.74E-02	1.02E-01	3.39E-01	3.63E-01	3.95E-01	5.80E-01	5.82E-01	5.83E-01	5.83E-01
7.0E+00	4.58E-02	8.16E-02	2.92E-01	3.10E-01	3.32E-01	4.41E-01	4.43E-01	4.43E-01	4.44E-01
8.0E+00	4.40E-02	6.70E-02	2.48E-01	2.61E-01	2.81E-01	3.46E-01	3.47E-01	3.48E-01	3.48E-01
1.0E+01	4.00E-02	4.94E-02	1.75E-01	1.80E-01	1.99E-01	2.22E-01	2.23E-01	2.23E-01	2.30E-01
1.5E+01	3.00E-02	3.44E-02	7.76E-02	7.83E-02	8.67E-02	8.90E-02	8.91E-02	8.93E-02	8.80E-02
2.0E+01	1.98E-02	2.38E-02	3.76E-02	3.82E-02	4.08E-02	4.11E-02	4.12E-02	4.13E-02	4.10E-02
3.0E+01	8.20E-03	9.80E-03	1.14E-02	1.17E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02
4.0E+01	3.20E-03	3.74E-03	4.02E-03	4.11E-03	4.15E-03	4.16E-03	4.16E-03	4.16E-03	4.20E-03
6.0E+01	6.20E-04	7.02E-04	7.18E-04	7.31E-04	7.34E-04	7.34E-04	7.34E-04	7.35E-04	7.30E-04
1.0E+02	4.60E-05	5.12E-05	5.16E-05	5.24E-05	5.24E-05	5.24E-05	5.25E-05	5.25E-05	5.30E-05
E[keV]:	1.19E+01	1.53E+00	1.33E+00	2.04E-01	1.43E-01	4.20E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z							
0.0E+00	3.87E+00	5.10E+00	6.04E+00	6.56E+00	6.85E+00	7.05E+00	7.10E+00	7.10E+00
5.0E-02	3.85E+00	5.08E+00	6.03E+00	6.54E+00	6.84E+00	7.03E+00	7.09E+00	7.08E+00
1.0E-01	3.80E+00	5.03E+00	5.98E+00	6.49E+00	6.79E+00	6.98E+00	7.03E+00	7.03E+00
1.5E-01	3.71E+00	4.94E+00	5.89E+00	6.41E+00	6.70E+00	6.89E+00	6.95E+00	6.94E+00
2.0E-01	3.59E+00	4.82E+00	5.77E+00	6.28E+00	6.58E+00	6.77E+00	6.82E+00	6.82E+00
3.0E-01	3.24E+00	4.47E+00	5.42E+00	5.92E+00	6.22E+00	6.41E+00	6.46E+00	6.46E+00
4.0E-01	2.78E+00	4.01E+00	4.96E+00	5.45E+00	5.75E+00	5.94E+00	5.99E+00	5.99E+00
5.0E-01	2.26E+00	3.50E+00	4.44E+00	4.92E+00	5.22E+00	5.41E+00	5.46E+00	5.46E+00
6.0E-01	1.76E+00	2.99E+00	3.94E+00	4.40E+00	4.69E+00	4.89E+00	4.94E+00	4.93E+00
7.0E-01	1.31E+00	2.53E+00	3.47E+00	3.92E+00	4.21E+00	4.40E+00	4.46E+00	4.46E+00
8.0E-01	9.46E-01	2.17E+00	3.10E+00	3.53E+00	3.82E+00	4.01E+00	4.06E+00	4.07E+00
1.0E+00	4.70E-01	1.69E+00	2.61E+00	3.00E+00	3.29E+00	3.48E+00	3.53E+00	3.53E+00
1.2E+00	2.35E-01	1.44E+00	2.34E+00	2.68E+00	2.98E+00	3.16E+00	3.21E+00	3.21E+00
1.4E+00	1.34E-01	1.32E+00	2.19E+00	2.48E+00	2.78E+00	2.96E+00	3.01E+00	3.01E+00
1.6E+00	9.33E-02	1.25E+00	2.08E+00	2.33E+00	2.62E+00	2.80E+00	2.85E+00	2.85E+00
1.8E+00	7.65E-02	1.21E+00	1.99E+00	2.19E+00	2.49E+00	2.65E+00	2.71E+00	2.71E+00
2.0E+00	6.69E-02	1.16E+00	1.88E+00	2.05E+00	2.34E+00	2.51E+00	2.56E+00	2.55E+00
2.4E+00	5.12E-02	1.03E+00	1.63E+00	1.74E+00	2.03E+00	2.18E+00	2.24E+00	2.24E+00
3.0E+00	3.01E-02	8.27E-01	1.24E+00	1.29E+00	1.58E+00	1.72E+00	1.77E+00	1.77E+00
4.0E+00	1.09E-02	5.25E-01	7.09E-01	7.37E-01	1.01E+00	1.12E+00	1.17E+00	1.17E+00
5.0E+00	5.00E-03	3.17E-01	3.89E-01	4.16E-01	6.75E-01	7.54E-01	8.03E-01	8.04E-01
6.0E+00	3.12E-03	1.88E-01	2.20E-01	2.44E-01	4.81E-01	5.36E-01	5.83E-01	5.83E-01
7.0E+00	2.25E-03	1.11E-01	1.33E-01	1.52E-01	3.62E-01	3.98E-01	4.43E-01	4.44E-01
8.0E+00	1.66E-03	6.63E-02	8.67E-02	9.95E-02	2.81E-01	3.04E-01	3.48E-01	3.48E-01
1.0E+01	8.90E-04	2.39E-02	4.31E-02	4.77E-02	1.74E-01	1.83E-01	2.23E-01	2.30E-01
1.5E+01	2.58E-04	2.56E-03	1.10E-02	1.17E-02	5.49E-02	5.93E-02	8.93E-02	8.80E-02
2.0E+01	1.13E-04	4.32E-04	3.01E-03	3.65E-03	1.75E-02	2.15E-02	4.13E-02	4.10E-02
3.0E+01	2.72E-05	4.02E-05	3.28E-04	5.88E-04	2.21E-03	3.81E-03	1.20E-02	1.20E-02
4.0E+01	8.11E-06	9.21E-06	5.48E-05	1.45E-04	4.21E-04	9.61E-04	4.16E-03	4.20E-03
6.0E+01	1.06E-06	1.09E-06	3.67E-06	1.67E-05	3.29E-05	1.15E-04	7.35E-04	7.30E-04
1.0E+02	6.34E-08	6.36E-08	1.19E-07	9.19E-07	1.28E-06	6.48E-06	5.25E-05	5.30E-05
E[keV]:	0.00E+00	4.20E-02	1.43E-01	2.04E-01	1.33E+00	1.53E+00	1.19E+01	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1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
33As
Σi Ji(Q)
Q

z=34

Compton profiles for the single orbitals and binding energies

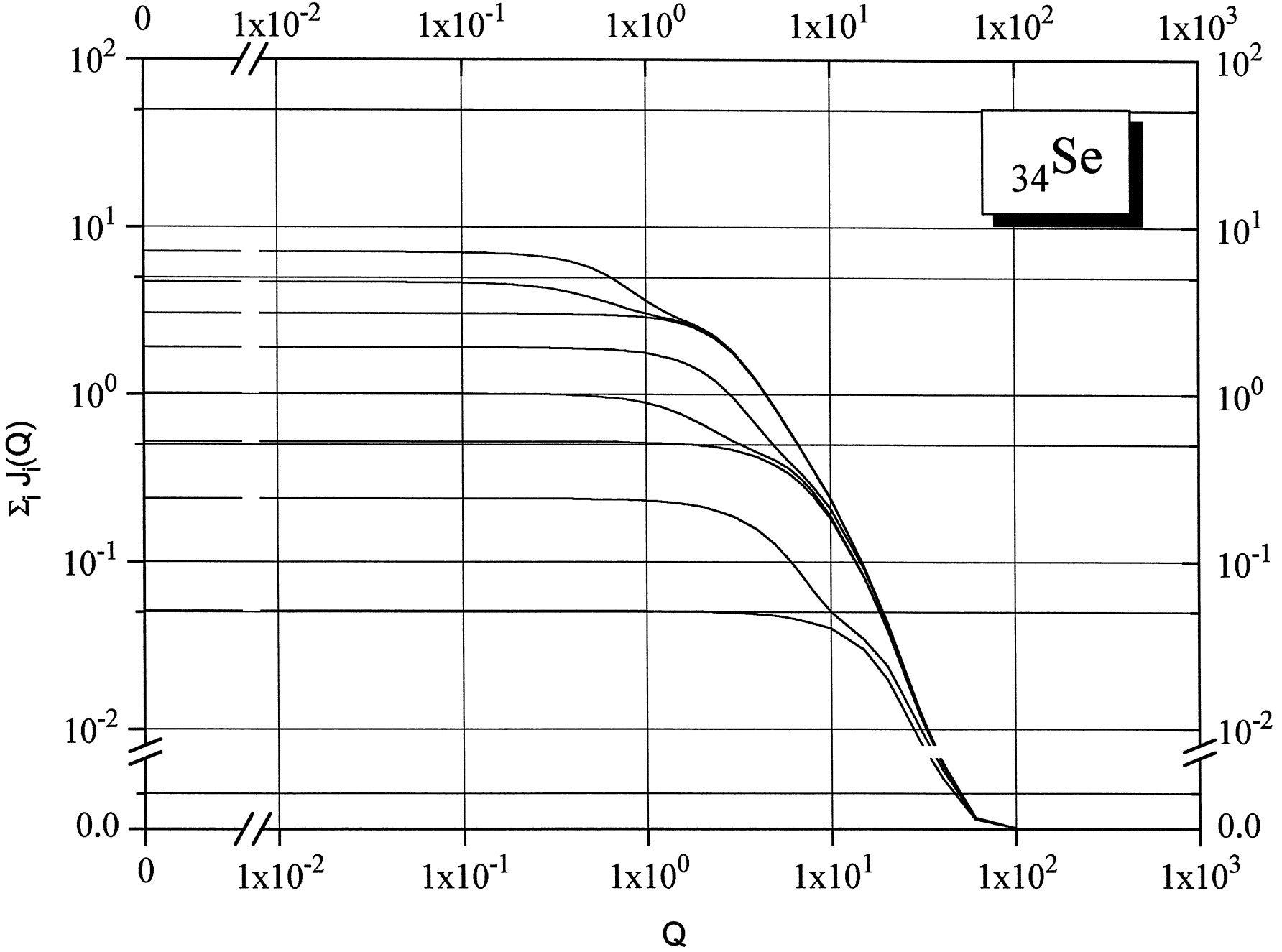
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(4)	Total
0.0E+00	2.55E-02	9.39E-02	4.75E-02	2.47E-01	1.51E-01	1.14E-01	8.39E-01	6.04E-01	7.16E+00
5.0E-02	2.55E-02	9.39E-02	4.75E-02	2.47E-01	1.51E-01	1.14E-01	8.33E-01	6.04E-01	7.14E+00
1.0E-01	2.55E-02	9.39E-02	4.75E-02	2.46E-01	1.51E-01	1.14E-01	8.14E-01	6.03E-01	7.10E+00
1.5E-01	2.55E-02	9.39E-02	4.75E-02	2.45E-01	1.51E-01	1.14E-01	7.85E-01	6.02E-01	7.04E+00
2.0E-01	2.55E-02	9.38E-02	4.75E-02	2.44E-01	1.51E-01	1.14E-01	7.45E-01	5.98E-01	6.94E+00
3.0E-01	2.55E-02	9.36E-02	4.75E-02	2.41E-01	1.51E-01	1.14E-01	6.43E-01	5.78E-01	6.65E+00
4.0E-01	2.55E-02	9.34E-02	4.75E-02	2.36E-01	1.51E-01	1.14E-01	5.26E-01	5.38E-01	6.24E+00
5.0E-01	2.55E-02	9.31E-02	4.75E-02	2.30E-01	1.50E-01	1.14E-01	4.09E-01	4.79E-01	5.76E+00
6.0E-01	2.55E-02	9.27E-02	4.75E-02	2.23E-01	1.50E-01	1.14E-01	3.04E-01	4.08E-01	5.25E+00
7.0E-01	2.55E-02	9.23E-02	4.75E-02	2.16E-01	1.50E-01	1.14E-01	2.17E-01	3.33E-01	4.76E+00
8.0E-01	2.55E-02	9.18E-02	4.75E-02	2.07E-01	1.49E-01	1.14E-01	1.50E-01	2.63E-01	4.32E+00
1.0E+00	2.55E-02	9.06E-02	4.75E-02	1.88E-01	1.47E-01	1.14E-01	7.02E-02	1.51E-01	3.66E+00
1.2E+00	2.54E-02	8.92E-02	4.75E-02	1.67E-01	1.44E-01	1.13E-01	3.81E-02	7.97E-02	3.24E+00
1.4E+00	2.54E-02	8.76E-02	4.74E-02	1.45E-01	1.40E-01	1.12E-01	2.91E-02	4.00E-02	2.98E+00
1.6E+00	2.54E-02	8.57E-02	4.74E-02	1.24E-01	1.34E-01	1.10E-01	2.80E-02	2.02E-02	2.80E+00
1.8E+00	2.53E-02	8.37E-02	4.73E-02	1.04E-01	1.27E-01	1.08E-01	2.77E-02	1.13E-02	2.65E+00
2.0E+00	2.53E-02	8.15E-02	4.73E-02	8.64E-02	1.19E-01	1.04E-01	2.62E-02	7.91E-03	2.51E+00
2.4E+00	2.51E-02	7.66E-02	4.71E-02	5.68E-02	1.01E-01	9.63E-02	1.98E-02	6.72E-03	2.23E+00
3.0E+00	2.49E-02	6.84E-02	4.66E-02	2.93E-02	7.23E-02	8.09E-02	9.64E-03	6.28E-03	1.81E+00
4.0E+00	2.44E-02	5.40E-02	4.50E-02	1.42E-02	3.44E-02	5.49E-02	2.24E-03	3.49E-03	1.23E+00
5.0E+00	2.39E-02	4.01E-02	4.24E-02	1.30E-02	1.42E-02	3.47E-02	1.19E-03	1.41E-03	8.48E-01
6.0E+00	2.32E-02	2.83E-02	3.90E-02	1.23E-02	6.13E-03	2.12E-02	1.16E-03	5.28E-04	6.15E-01
7.0E+00	2.24E-02	1.91E-02	3.49E-02	9.94E-03	3.79E-03	1.28E-02	1.00E-03	2.52E-04	4.66E-01
8.0E+00	2.15E-02	1.25E-02	3.05E-02	7.06E-03	3.38E-03	7.73E-03	7.34E-04	1.92E-04	3.65E-01
1.0E+01	2.00E-02	5.20E-03	2.20E-02	2.80E-03	3.30E-03	2.90E-03	2.90E-04	1.80E-04	2.40E-01
1.5E+01	1.50E-02	2.20E-03	7.90E-03	3.60E-04	1.50E-03	3.00E-04	3.20E-05	9.00E-05	9.40E-02
2.0E+01	1.00E-02	2.00E-03	2.60E-03	3.30E-04	5.00E-04	4.20E-05	2.80E-05	3.00E-05	4.40E-02
3.0E+01	4.30E-03	8.60E-04	3.20E-04	1.50E-04	5.80E-05	1.80E-06	1.30E-05	3.50E-06	1.30E-02
4.0E+01	1.80E-03	3.00E-04	5.50E-05	5.10E-05	9.40E-06	1.60E-07	4.40E-06	5.60E-07	4.60E-03
6.0E+01	3.40E-04	4.70E-05	3.30E-06	7.60E-06	5.50E-07	4.00E-09	6.50E-07	3.20E-08	8.20E-04
1.0E+02	2.70E-05	3.00E-06	7.50E-08	4.80E-07	1.20E-08	2.90E-11	4.10E-08	7.00E-10	6.10E-05
E[keV]:	1.27E+01	1.65E+00	1.45E+00	2.31E-01	1.64E-01	5.60E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(4)	Total
0.0E+00	5.10E-02	2.39E-01	5.24E-01	1.02E+00	1.92E+00	3.06E+00	4.74E+00	7.16E+00	7.16E+00
5.0E-02	5.10E-02	2.39E-01	5.24E-01	1.02E+00	1.92E+00	3.06E+00	4.73E+00	7.15E+00	7.14E+00
1.0E-01	5.10E-02	2.39E-01	5.24E-01	1.02E+00	1.92E+00	3.06E+00	4.69E+00	7.10E+00	7.10E+00
1.5E-01	5.10E-02	2.39E-01	5.24E-01	1.01E+00	1.92E+00	3.06E+00	4.62E+00	7.04E+00	7.04E+00
2.0E-01	5.10E-02	2.39E-01	5.24E-01	1.01E+00	1.92E+00	3.06E+00	4.55E+00	6.94E+00	6.94E+00
3.0E-01	5.10E-02	2.38E-01	5.23E-01	1.01E+00	1.91E+00	3.05E+00	4.34E+00	6.65E+00	6.65E+00
4.0E-01	5.10E-02	2.38E-01	5.23E-01	9.95E-01	1.90E+00	3.04E+00	4.09E+00	6.24E+00	6.24E+00
5.0E-01	5.10E-02	2.37E-01	5.22E-01	9.82E-01	1.88E+00	3.02E+00	3.84E+00	5.76E+00	5.76E+00
6.0E-01	5.10E-02	2.36E-01	5.21E-01	9.67E-01	1.87E+00	3.01E+00	3.62E+00	5.25E+00	5.25E+00
7.0E-01	5.10E-02	2.36E-01	5.21E-01	9.53E-01	1.85E+00	2.99E+00	3.43E+00	4.76E+00	4.76E+00
8.0E-01	5.10E-02	2.35E-01	5.20E-01	9.34E-01	1.83E+00	2.97E+00	3.27E+00	4.32E+00	4.32E+00
1.0E+00	5.10E-02	2.32E-01	5.17E-01	8.93E-01	1.78E+00	2.92E+00	3.06E+00	3.66E+00	3.66E+00
1.2E+00	5.08E-02	2.29E-01	5.14E-01	8.48E-01	1.71E+00	2.84E+00	2.92E+00	3.24E+00	3.24E+00
1.4E+00	5.08E-02	2.26E-01	5.10E-01	8.00E-01	1.64E+00	2.76E+00	2.82E+00	2.98E+00	2.98E+00
1.6E+00	5.08E-02	2.22E-01	5.07E-01	7.55E-01	1.56E+00	2.66E+00	2.71E+00	2.80E+00	2.80E+00
1.8E+00	5.06E-02	2.18E-01	5.02E-01	7.10E-01	1.47E+00	2.55E+00	2.61E+00	2.65E+00	2.65E+00
2.0E+00	5.06E-02	2.14E-01	4.97E-01	6.70E-01	1.38E+00	2.42E+00	2.48E+00	2.51E+00	2.51E+00
2.4E+00	5.02E-02	2.03E-01	4.86E-01	6.00E-01	1.21E+00	2.17E+00	2.21E+00	2.24E+00	2.23E+00
3.0E+00	4.98E-02	1.87E-01	4.66E-01	5.25E-01	9.59E-01	1.77E+00	1.79E+00	1.81E+00	1.81E+00
4.0E+00	4.88E-02	1.57E-01	4.27E-01	4.55E-01	6.62E-01	1.21E+00	1.22E+00	1.23E+00	1.23E+00
5.0E+00	4.78E-02	1.28E-01	3.82E-01	4.08E-01	4.94E-01	8.41E-01	8.43E-01	8.49E-01	8.48E-01
6.0E+00	4.64E-02	1.03E-01	3.37E-01	3.62E-01	3.98E-01	6.10E-01	6.13E-01	6.15E-01	6.15E-01
7.0E+00	4.48E-02	8.30E-02	2.92E-01	3.12E-01	3.35E-01	4.63E-01	4.65E-01	4.66E-01	4.66E-01
8.0E+00	4.30E-02	6.80E-02	2.51E-01	2.65E-01	2.85E-01	3.63E-01	3.64E-01	3.65E-01	3.65E-01
1.0E+01	4.00E-02	5.04E-02	1.82E-01	1.86E-01	2.08E-01	2.37E-01	2.37E-01	2.38E-01	2.40E-01
1.5E+01	3.00E-02	3.44E-02	8.18E-02	8.25E-02	9.15E-02	9.45E-02	9.46E-02	9.49E-02	9.40E-02
2.0E+01	2.00E-02	2.40E-02	3.96E-02	4.03E-02	4.33E-02	4.37E-02	4.37E-02	4.39E-02	4.40E-02
3.0E+01	8.60E-03	1.03E-02	1.22E-02	1.25E-02	1.29E-02	1.29E-02	1.29E-02	1.29E-02	1.30E-02
4.0E+01	3.60E-03	4.20E-03	4.53E-03	4.63E-03	4.69E-03	4.69E-03	4.70E-03	4.70E-03	4.60E-03
6.0E+01	6.80E-04	7.74E-04	7.94E-04	8.09E-04	8.12E-04	8.12E-04	8.14E-04	8.14E-04	8.20E-04
1.0E+02	5.40E-05	6.00E-05	6.04E-05	6.14E-05	6.15E-05	6.15E-05	6.16E-05	6.16E-05	6.10E-05
E[keV]:	1.27E+01	1.65E+00	1.45E+00	2.31E-01	1.64E-01	5.60E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	4.09E+00	5.23E+00	6.14E+00	6.63E+00	6.92E+00	7.11E+00	7.16E+00	7.16E+00
5.0E-02	4.08E+00	5.22E+00	6.13E+00	6.62E+00	6.91E+00	7.09E+00	7.15E+00	7.14E+00
1.0E-01	4.04E+00	5.18E+00	6.09E+00	6.58E+00	6.86E+00	7.05E+00	7.10E+00	7.10E+00
1.5E-01	3.98E+00	5.12E+00	6.02E+00	6.51E+00	6.80E+00	6.99E+00	7.04E+00	7.04E+00
2.0E-01	3.88E+00	5.02E+00	5.93E+00	6.42E+00	6.70E+00	6.89E+00	6.94E+00	6.94E+00
3.0E-01	3.60E+00	4.74E+00	5.64E+00	6.13E+00	6.41E+00	6.60E+00	6.65E+00	6.65E+00
4.0E-01	3.20E+00	4.34E+00	5.25E+00	5.72E+00	6.01E+00	6.19E+00	6.24E+00	6.24E+00
5.0E-01	2.73E+00	3.87E+00	4.77E+00	5.23E+00	5.52E+00	5.71E+00	5.76E+00	5.76E+00
6.0E-01	2.24E+00	3.38E+00	4.28E+00	4.73E+00	5.01E+00	5.20E+00	5.25E+00	5.25E+00
7.0E-01	1.77E+00	2.91E+00	3.81E+00	4.24E+00	4.52E+00	4.71E+00	4.76E+00	4.76E+00
8.0E-01	1.35E+00	2.49E+00	3.39E+00	3.80E+00	4.09E+00	4.27E+00	4.32E+00	4.32E+00
1.0E+00	7.44E-01	1.88E+00	2.77E+00	3.14E+00	3.43E+00	3.61E+00	3.66E+00	3.66E+00
1.2E+00	3.95E-01	1.53E+00	2.39E+00	2.72E+00	3.01E+00	3.19E+00	3.24E+00	3.24E+00
1.4E+00	2.18E-01	1.34E+00	2.18E+00	2.47E+00	2.75E+00	2.93E+00	2.98E+00	2.98E+00
1.6E+00	1.37E-01	1.24E+00	2.04E+00	2.29E+00	2.57E+00	2.74E+00	2.80E+00	2.80E+00
1.8E+00	1.01E-01	1.18E+00	1.94E+00	2.15E+00	2.43E+00	2.60E+00	2.65E+00	2.65E+00
2.0E+00	8.40E-02	1.12E+00	1.84E+00	2.01E+00	2.29E+00	2.46E+00	2.51E+00	2.51E+00
2.4E+00	6.65E-02	1.03E+00	1.64E+00	1.75E+00	2.03E+00	2.18E+00	2.24E+00	2.23E+00
3.0E+00	4.44E-02	8.53E-01	1.29E+00	1.35E+00	1.63E+00	1.76E+00	1.81E+00	1.81E+00
4.0E+00	1.84E-02	5.67E-01	7.74E-01	8.02E-01	1.07E+00	1.18E+00	1.23E+00	1.23E+00
5.0E+00	8.02E-03	3.55E-01	4.40E-01	4.66E-01	7.21E-01	8.01E-01	8.49E-01	8.48E-01
6.0E+00	4.43E-03	2.16E-01	2.53E-01	2.78E-01	5.12E-01	5.68E-01	6.15E-01	6.15E-01
7.0E+00	3.01E-03	1.31E-01	1.54E-01	1.74E-01	3.83E-01	4.21E-01	4.66E-01	4.66E-01
8.0E+00	2.24E-03	7.95E-02	9.98E-02	1.14E-01	2.97E-01	3.22E-01	3.65E-01	3.65E-01
1.0E+01	1.30E-03	3.03E-02	5.01E-02	5.57E-02	1.86E-01	1.98E-01	2.38E-01	2.40E-01
1.5E+01	4.24E-04	3.42E-03	1.24E-02	1.31E-02	6.05E-02	6.49E-02	9.49E-02	9.40E-02
2.0E+01	1.76E-04	5.96E-04	3.60E-03	4.26E-03	1.99E-02	2.39E-02	4.39E-02	4.40E-02
3.0E+01	4.00E-05	5.80E-05	4.06E-04	7.06E-04	2.63E-03	4.35E-03	1.29E-02	1.30E-02
4.0E+01	1.10E-05	1.26E-05	6.90E-05	1.71E-04	5.01E-04	1.10E-03	4.70E-03	4.60E-03
6.0E+01	1.43E-06	1.47E-06	4.77E-06	2.00E-05	3.98E-05	1.34E-04	8.14E-04	8.20E-04
1.0E+02	8.48E-08	8.51E-08	1.57E-07	1.12E-06	1.57E-06	7.57E-06	6.16E-05	6.10E-05
E[keV]:	0.00E+00	5.60E-02	1.64E-01	2.31E-01	1.45E+00	1.65E+00	1.27E+01	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1x10-1
1x100
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1x102
1x103
102
101
100
10-1
10-2
0.0
34Se
Σi Ji(Q)
Q

Z=35

Compton profiles for the single orbitals and binding energies

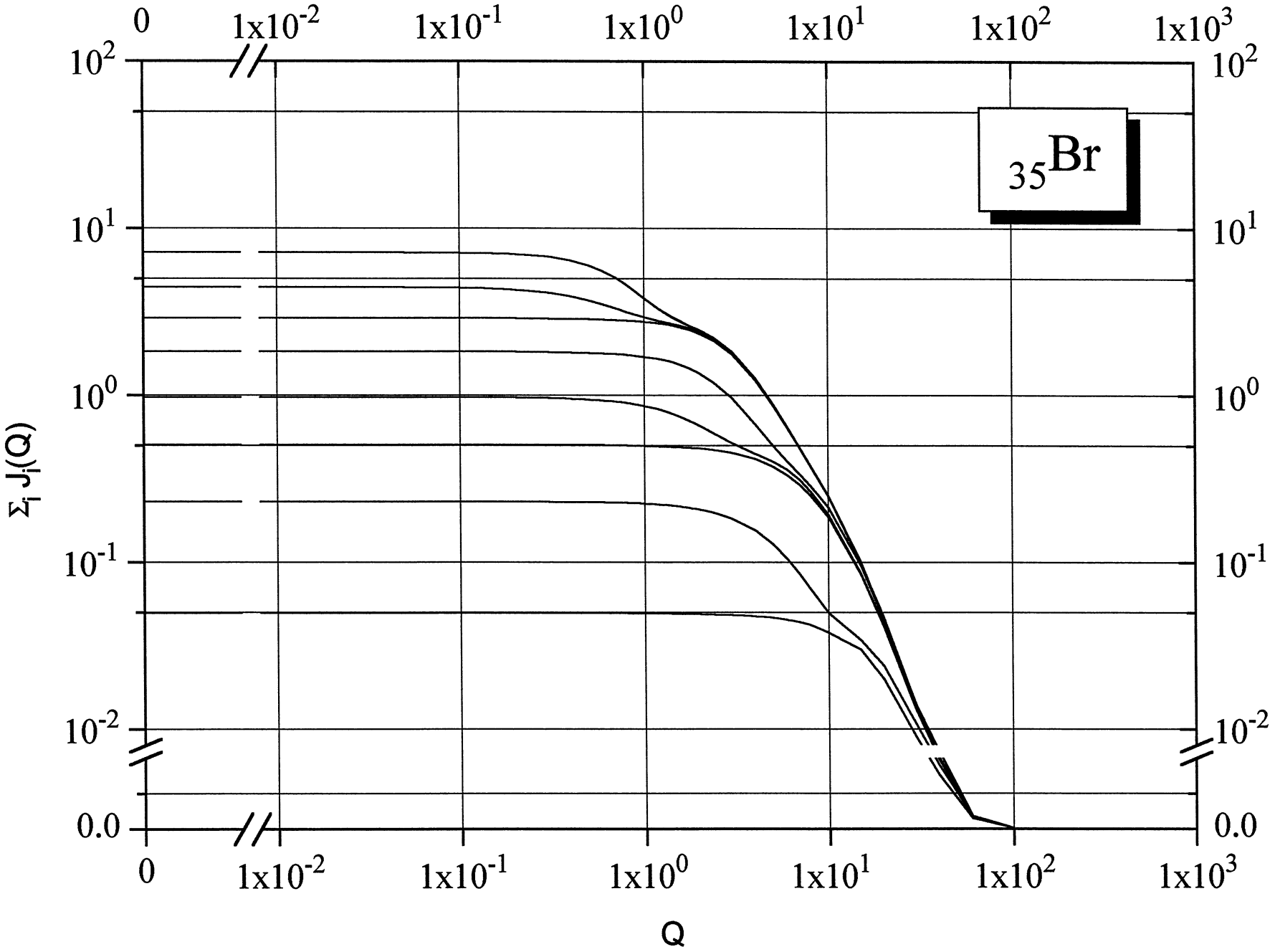
q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(5)	Total
0.0E+00	2.48E-02	9.09E-02	4.59E-02	2.36E-01	1.44E-01	1.07E-01	7.72E-01	5.49E-01	7.20E+00
5.0E-02	2.48E-02	9.09E-02	4.59E-02	2.36E-01	1.44E-01	1.07E-01	7.67E-01	5.49E-01	7.19E+00
1.0E-01	2.48E-02	9.09E-02	4.59E-02	2.36E-01	1.44E-01	1.07E-01	7.52E-01	5.49E-01	7.16E+00
1.5E-01	2.48E-02	9.09E-02	4.59E-02	2.35E-01	1.44E-01	1.07E-01	7.29E-01	5.48E-01	7.11E+00
2.0E-01	2.48E-02	9.08E-02	4.59E-02	2.34E-01	1.44E-01	1.07E-01	6.97E-01	5.45E-01	7.03E+00
3.0E-01	2.48E-02	9.07E-02	4.59E-02	2.31E-01	1.44E-01	1.07E-01	6.14E-01	5.32E-01	6.79E+00
4.0E-01	2.48E-02	9.04E-02	4.59E-02	2.27E-01	1.44E-01	1.07E-01	5.16E-01	5.04E-01	6.44E+00
5.0E-01	2.48E-02	9.02E-02	4.59E-02	2.22E-01	1.43E-01	1.07E-01	4.15E-01	4.61E-01	6.01E+00
6.0E-01	2.49E-02	8.98E-02	4.59E-02	2.16E-01	1.43E-01	1.07E-01	3.20E-01	4.06E-01	5.53E+00
7.0E-01	2.48E-02	8.94E-02	4.59E-02	2.09E-01	1.43E-01	1.07E-01	2.38E-01	3.45E-01	5.05E+00
8.0E-01	2.48E-02	8.90E-02	4.59E-02	2.01E-01	1.42E-01	1.07E-01	1.72E-01	2.83E-01	4.59E+00
1.0E+00	2.47E-02	8.79E-02	4.59E-02	1.84E-01	1.41E-01	1.07E-01	8.55E-02	1.77E-01	3.84E+00
1.2E+00	2.47E-02	8.66E-02	4.59E-02	1.65E-01	1.38E-01	1.06E-01	4.54E-02	1.02E-01	3.32E+00
1.4E+00	2.47E-02	8.51E-02	4.59E-02	1.45E-01	1.35E-01	1.05E-01	3.14E-02	5.51E-02	2.99E+00
1.6E+00	2.46E-02	8.34E-02	4.58E-02	1.25E-01	1.30E-01	1.04E-01	2.84E-02	2.92E-02	2.77E+00
1.8E+00	2.46E-02	8.16E-02	4.58E-02	1.07E-01	1.24E-01	1.02E-01	2.82E-02	1.61E-02	2.61E+00
2.0E+00	2.45E-02	7.96E-02	4.58E-02	8.95E-02	1.17E-01	1.00E-01	2.76E-02	1.02E-02	2.47E+00
2.4E+00	2.44E-02	7.51E-02	4.56E-02	6.05E-02	1.01E-01	9.38E-02	2.26E-02	7.28E-03	2.22E+00
3.0E+00	2.42E-02	6.75E-02	4.51E-02	3.21E-02	7.51E-02	8.12E-02	1.22E-02	7.03E-03	1.84E+00
4.0E+00	2.38E-02	5.40E-02	4.38E-02	1.47E-02	3.80E-02	5.77E-02	3.03E-03	4.44E-03	1.28E+00
5.0E+00	2.33E-02	4.09E-02	4.15E-02	1.28E-02	1.65E-02	3.78E-02	1.34E-03	1.95E-03	8.92E-01
6.0E+00	2.26E-02	2.94E-02	3.84E-02	1.24E-02	7.12E-03	2.38E-02	1.26E-03	7.56E-04	6.47E-01
7.0E+00	2.19E-02	2.03E-02	3.47E-02	1.04E-02	4.05E-03	1.47E-02	1.14E-03	3.35E-04	4.89E-01
8.0E+00	2.11E-02	1.35E-02	3.06E-02	7.69E-03	3.39E-03	9.09E-03	8.78E-04	2.27E-04	3.82E-01
1.0E+01	1.90E-02	5.80E-03	2.30E-02	3.20E-03	3.30E-03	3.50E-03	3.80E-04	2.10E-04	2.50E-01
1.5E+01	1.50E-02	2.10E-03	8.50E-03	3.90E-04	1.70E-03	3.80E-04	3.90E-05	1.10E-04	9.90E-02
2.0E+01	1.00E-02	2.00E-03	2.90E-03	3.30E-04	5.70E-04	5.60E-06	3.10E-05	3.90E-05	4.70E-02
3.0E+01	4.50E-03	9.20E-04	3.70E-04	1.60E-04	7.00E-05	2.50E-06	1.50E-05	4.80E-06	1.40E-02
4.0E+01	1.90E-03	3.40E-04	6.50E-05	5.80E-05	1.20E-05	2.20E-07	5.50E-06	7.80E-07	5.10E-03
6.0E+01	3.80E-04	5.30E-05	4.00E-06	8.80E-06	6.80E-07	5.60E-09	8.30E-07	4.60E-08	9.10E-04
1.0E+02	3.00E-05	3.50E-06	9.20E-08	5.60E-07	1.50E-08	3.80E-11	6.30E-08	1.00E-09	7.00E-05
E[keV]:	1.35E+01	1.78E+00	1.56E+00	2.57E-01	1.84E-01	6.90E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(6)	2p+(2)	3s+(6)	3p-(10)	3p+(2)	3d-(5)	Total
0.0E+00	4.96E-02	2.31E-01	5.07E-01	9.79E-01	1.84E+00	2.91E+00	4.46E+00	7.20E+00	7.20E+00
5.0E-02	4.96E-02	2.31E-01	5.07E-01	9.79E-01	1.84E+00	2.91E+00	4.45E+00	7.19E+00	7.19E+00
1.0E-01	4.96E-02	2.31E-01	5.07E-01	9.79E-01	1.84E+00	2.91E+00	4.42E+00	7.16E+00	7.16E+00
1.5E-01	4.96E-02	2.31E-01	5.07E-01	9.77E-01	1.84E+00	2.91E+00	4.37E+00	7.11E+00	7.11E+00
2.0E-01	4.96E-02	2.31E-01	5.07E-01	9.75E-01	1.84E+00	2.91E+00	4.30E+00	7.03E+00	7.03E+00
3.0E-01	4.96E-02	2.31E-01	5.06E-01	9.68E-01	1.83E+00	2.90E+00	4.13E+00	6.79E+00	6.79E+00
4.0E-01	4.96E-02	2.30E-01	5.06E-01	9.60E-01	1.82E+00	2.89E+00	3.93E+00	6.45E+00	6.44E+00
5.0E-01	4.96E-02	2.30E-01	5.05E-01	9.49E-01	1.81E+00	2.88E+00	3.71E+00	6.01E+00	6.01E+00
6.0E-01	4.96E-02	2.29E-01	5.05E-01	9.37E-01	1.79E+00	2.86E+00	3.50E+00	5.53E+00	5.53E+00
7.0E-01	4.96E-02	2.28E-01	5.04E-01	9.22E-01	1.78E+00	2.85E+00	3.33E+00	5.05E+00	5.05E+00
8.0E-01	4.96E-02	2.28E-01	5.03E-01	9.05E-01	1.76E+00	2.83E+00	3.17E+00	4.59E+00	4.59E+00
1.0E+00	4.94E-02	2.25E-01	5.01E-01	8.69E-01	1.71E+00	2.78E+00	2.96E+00	3.84E+00	3.84E+00
1.2E+00	4.94E-02	2.23E-01	4.98E-01	8.28E-01	1.66E+00	2.72E+00	2.81E+00	3.32E+00	3.32E+00
1.4E+00	4.94E-02	2.20E-01	4.95E-01	7.85E-01	1.60E+00	2.65E+00	2.71E+00	2.98E+00	2.99E+00
1.6E+00	4.92E-02	2.16E-01	4.91E-01	7.41E-01	1.52E+00	2.56E+00	2.62E+00	2.76E+00	2.77E+00
1.8E+00	4.92E-02	2.12E-01	4.87E-01	7.01E-01	1.45E+00	2.47E+00	2.52E+00	2.60E+00	2.61E+00
2.0E+00	4.90E-02	2.08E-01	4.83E-01	6.62E-01	1.36E+00	2.36E+00	2.42E+00	2.47E+00	2.47E+00
2.4E+00	4.88E-02	1.99E-01	4.73E-01	5.94E-01	1.20E+00	2.14E+00	2.18E+00	2.22E+00	2.22E+00
3.0E+00	4.84E-02	1.83E-01	4.54E-01	5.18E-01	9.69E-01	1.78E+00	1.81E+00	1.84E+00	1.84E+00
4.0E+00	4.76E-02	1.56E-01	4.18E-01	4.48E-01	6.76E-01	1.25E+00	1.26E+00	1.28E+00	1.28E+00
5.0E+00	4.66E-02	1.28E-01	3.77E-01	4.03E-01	5.02E-01	8.80E-01	8.83E-01	8.92E-01	8.92E-01
6.0E+00	4.52E-02	1.04E-01	3.34E-01	3.59E-01	4.02E-01	6.40E-01	6.42E-01	6.46E-01	6.47E-01
7.0E+00	4.38E-02	8.44E-02	2.93E-01	3.13E-01	3.38E-01	4.85E-01	4.87E-01	4.89E-01	4.89E-01
8.0E+00	4.22E-02	6.92E-02	2.53E-01	2.68E-01	2.89E-01	3.79E-01	3.81E-01	3.82E-01	3.82E-01
1.0E+01	3.80E-02	4.96E-02	1.88E-01	1.94E-01	2.14E-01	2.49E-01	2.50E-01	2.51E-01	2.50E-01
1.5E+01	3.00E-02	3.42E-02	8.52E-02	8.60E-02	9.62E-02	1.00E-01	1.00E-01	1.01E-01	9.90E-02
2.0E+01	2.00E-02	2.40E-02	4.14E-02	4.21E-02	4.55E-02	4.55E-02	4.56E-02	4.58E-02	4.70E-02
3.0E+01	9.00E-03	1.08E-02	1.31E-02	1.34E-02	1.38E-02	1.38E-02	1.39E-02	1.39E-02	1.40E-02
4.0E+01	3.80E-03	4.48E-03	4.87E-03	4.99E-03	5.06E-03	5.06E-03	5.07E-03	5.08E-03	5.10E-03
6.0E+01	7.60E-04	8.66E-04	8.90E-04	9.08E-04	9.12E-04	9.12E-04	9.13E-04	9.14E-04	9.10E-04
1.0E+02	6.00E-05	6.70E-05	6.76E-05	6.87E-05	6.88E-05	6.88E-05	6.89E-05	6.89E-05	7.00E-05
E[keV]:	1.35E+01	1.78E+00	1.56E+00	2.57E-01	1.84E-01	6.90E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z								
0.0E+00	4.29E+00	5.36E+00	6.22E+00	6.69E+00	6.97E+00	7.15E+00	7.20E+00	7.20E+00
5.0E-02	4.28E+00	5.35E+00	6.21E+00	6.69E+00	6.96E+00	7.14E+00	7.19E+00	7.19E+00
1.0E-01	4.25E+00	5.32E+00	6.18E+00	6.66E+00	6.93E+00	7.11E+00	7.16E+00	7.16E+00
1.5E-01	4.20E+00	5.27E+00	6.13E+00	6.60E+00	6.88E+00	7.06E+00	7.11E+00	7.11E+00
2.0E-01	4.12E+00	5.19E+00	6.05E+00	6.52E+00	6.80E+00	6.98E+00	7.03E+00	7.03E+00
3.0E-01	3.89E+00	4.96E+00	5.82E+00	6.28E+00	6.56E+00	6.74E+00	6.79E+00	6.79E+00
4.0E-01	3.55E+00	4.62E+00	5.49E+00	5.94E+00	6.22E+00	6.40E+00	6.45E+00	6.44E+00
5.0E-01	3.14E+00	4.21E+00	5.06E+00	5.51E+00	5.78E+00	5.96E+00	6.01E+00	6.01E+00
6.0E-01	2.67E+00	3.74E+00	4.60E+00	5.03E+00	5.31E+00	5.49E+00	5.53E+00	5.53E+00
7.0E-01	2.20E+00	3.27E+00	4.13E+00	4.55E+00	4.82E+00	5.00E+00	5.05E+00	5.05E+00
8.0E-01	1.76E+00	2.83E+00	3.68E+00	4.08E+00	4.36E+00	4.54E+00	4.59E+00	4.59E+00
1.0E+00	1.06E+00	2.13E+00	2.97E+00	3.34E+00	3.62E+00	3.79E+00	3.84E+00	3.84E+00
1.2E+00	6.01E-01	1.66E+00	2.49E+00	2.82E+00	3.09E+00	3.27E+00	3.32E+00	3.32E+00
1.4E+00	3.38E-01	1.39E+00	2.20E+00	2.49E+00	2.76E+00	2.93E+00	2.98E+00	2.99E+00
1.6E+00	2.03E-01	1.24E+00	2.02E+00	2.27E+00	2.55E+00	2.72E+00	2.76E+00	2.77E+00
1.8E+00	1.37E-01	1.16E+00	1.90E+00	2.11E+00	2.39E+00	2.55E+00	2.60E+00	2.61E+00
2.0E+00	1.06E-01	1.11E+00	1.81E+00	1.99E+00	2.26E+00	2.42E+00	2.47E+00	2.47E+00
2.4E+00	8.16E-02	1.02E+00	1.63E+00	1.75E+00	2.02E+00	2.17E+00	2.22E+00	2.22E+00
3.0E+00	5.96E-02	8.72E-01	1.32E+00	1.39E+00	1.66E+00	1.79E+00	1.84E+00	1.84E+00
4.0E+00	2.83E-02	6.05E-01	8.33E-01	8.63E-01	1.13E+00	1.23E+00	1.28E+00	1.28E+00
5.0E+00	1.24E-02	3.90E-01	4.89E-01	5.15E-01	7.64E-01	8.46E-01	8.92E-01	8.92E-01
6.0E+00	6.30E-03	2.44E-01	2.87E-01	3.12E-01	5.42E-01	6.01E-01	6.46E-01	6.47E-01
7.0E+00	3.95E-03	1.51E-01	1.75E-01	1.96E-01	4.04E-01	4.45E-01	4.89E-01	4.89E-01
8.0E+00	2.89E-03	9.38E-02	1.14E-01	1.30E-01	3.13E-01	3.40E-01	3.82E-01	3.82E-01
1.0E+01	1.81E-03	3.68E-02	5.66E-02	6.30E-02	2.01E-01	2.13E-01	2.51E-01	2.50E-01
1.5E+01	6.28E-04	4.43E-03	1.46E-02	1.54E-02	6.64E-02	7.06E-02	1.01E-01	9.90E-02
2.0E+01	2.57E-04	3.13E-04	3.73E-03	4.39E-03	2.18E-02	2.58E-02	4.58E-02	4.70E-02
3.0E+01	5.40E-05	7.90E-05	4.99E-04	8.19E-04	3.04E-03	4.88E-03	1.39E-02	1.40E-02
4.0E+01	1.49E-05	1.71E-05	8.91E-05	2.05E-04	5.95E-04	1.28E-03	5.08E-03	5.10E-03
6.0E+01	1.89E-06	1.95E-06	6.03E-06	2.36E-05	4.76E-05	1.54E-04	9.14E-04	9.10E-04
1.0E+02	1.31E-07	1.31E-07	2.21E-07	1.34E-06	1.89E-06	8.89E-06	6.89E-05	7.00E-05
E[keV]:	0.00E+00	6.90E-02	1.84E-01	2.57E-01	1.56E+00	1.78E+00	1.35E+01	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1x10-1
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1x102
1x103
102
101
100
10-1
10-2
0.0
35Br
Σi Ji(Q)
Q

Z=36

Compton profiles for the single orbitals and binding energies

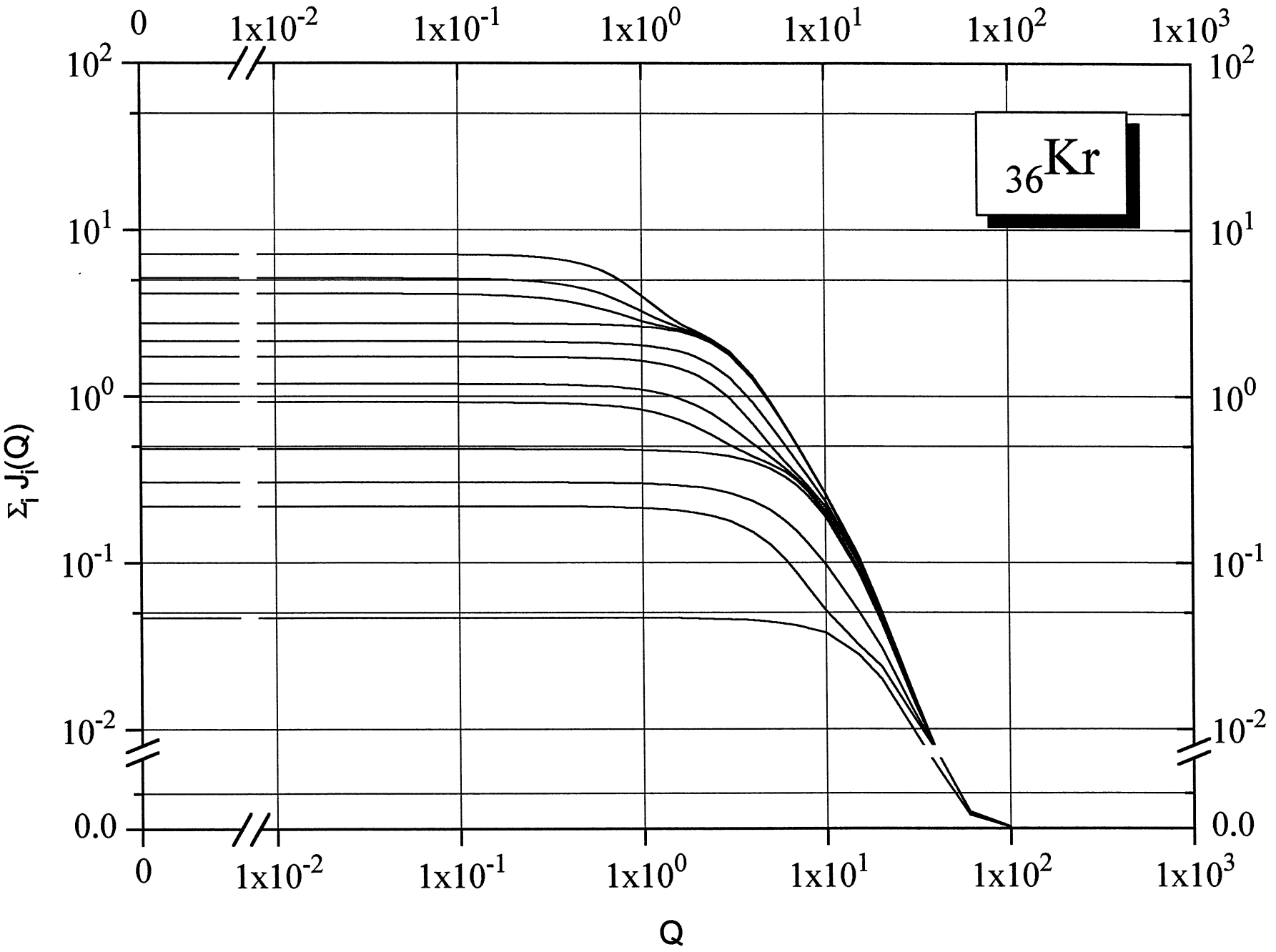
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	Total
0.0E+00	2.34E-02	8.62E-02	4.33E-02	4.43E-02	2.22E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	7.05E-01	4.96E-01	5.08E-01	7.19E+00
5.0E-02	2.34E-02	8.62E-02	4.33E-02	4.43E-02	2.22E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	7.01E-01	4.96E-01	5.08E-01	7.18E+00
1.0E-01	2.34E-02	8.62E-02	4.33E-02	4.43E-02	2.22E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	6.89E-01	4.96E-01	5.08E-01	7.15E+00
1.5E-01	2.34E-02	8.61E-02	4.33E-02	4.43E-02	2.21E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	6.71E-01	4.95E-01	5.07E-01	7.11E+00
2.0E-01	2.34E-02	8.61E-02	4.33E-02	4.43E-02	2.20E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	6.46E-01	4.94E-01	5.05E-01	7.05E+00
3.0E-01	2.34E-02	8.59E-02	4.33E-02	4.43E-02	2.18E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	5.81E-01	4.85E-01	4.96E-01	6.86E+00
4.0E-01	2.34E-02	8.58E-02	4.33E-02	4.43E-02	2.14E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	5.01E-01	4.67E-01	4.75E-01	6.57E+00
5.0E-01	2.34E-02	8.55E-02	4.33E-02	4.43E-02	2.10E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	4.16E-01	4.36E-01	4.42E-01	6.20E+00
6.0E-01	2.34E-02	8.52E-02	4.33E-02	4.43E-02	2.05E-01	1.34E-01	1.37E-01	1.01E-01	1.01E-01	3.33E-01	3.96E-01	3.98E-01	5.77E+00
7.0E-01	2.34E-02	8.49E-02	4.33E-02	4.43E-02	1.99E-01	1.34E-01	1.36E-01	1.01E-01	1.01E-01	2.59E-01	3.48E-01	3.48E-01	5.30E+00
8.0E-01	2.34E-02	8.45E-02	4.33E-02	4.43E-02	1.92E-01	1.34E-01	1.36E-01	1.01E-01	1.01E-01	1.95E-01	2.98E-01	2.95E-01	4.85E+00
1.0E+00	2.34E-02	8.36E-02	4.33E-02	4.43E-02	1.78E-01	1.32E-01	1.35E-01	1.00E-01	1.01E-01	1.04E-01	2.02E-01	1.96E-01	4.04E+00
1.2E+00	2.33E-02	8.25E-02	4.33E-02	4.43E-02	1.61E-01	1.31E-01	1.33E-01	1.00E-01	1.01E-01	5.61E-02	1.26E-01	1.21E-01	3.44E+00
1.4E+00	2.33E-02	8.12E-02	4.33E-02	4.42E-02	1.44E-01	1.28E-01	1.30E-01	9.96E-02	1.00E-01	3.53E-02	7.45E-02	6.98E-02	3.03E+00
1.6E+00	2.33E-02	7.98E-02	4.33E-02	4.42E-02	1.26E-01	1.24E-01	1.26E-01	9.88E-02	9.94E-02	2.88E-02	4.23E-02	3.90E-02	2.76E+00
1.8E+00	2.32E-02	7.82E-02	4.32E-02	4.42E-02	1.09E-01	1.20E-01	1.21E-01	9.75E-02	9.81E-02	2.77E-02	2.39E-02	2.19E-02	2.58E+00
2.0E+00	2.32E-02	7.64E-02	4.32E-02	4.41E-02	9.34E-02	1.14E-01	1.15E-01	9.58E-02	9.63E-02	2.76E-02	1.43E-02	1.32E-02	2.44E+00
2.4E+00	2.31E-02	7.25E-02	4.31E-02	4.40E-02	6.55E-02	1.01E-01	1.01E-01	9.09E-02	9.13E-02	2.47E-02	7.97E-03	7.82E-03	2.20E+00
3.0E+00	2.29E-02	6.59E-02	4.27E-02	4.36E-02	3.63E-02	7.81E-02	7.74E-02	8.05E-02	8.07E-02	1.54E-02	7.31E-03	7.34E-03	1.86E+00
4.0E+00	2.26E-02	5.38E-02	4.16E-02	4.24E-02	1.56E-02	4.29E-02	4.15E-02	5.97E-02	5.95E-02	4.38E-03	5.45E-03	5.27E-03	1.33E+00
5.0E+00	2.21E-02	4.18E-02	3.98E-02	4.05E-02	1.23E-02	2.01E-02	1.90E-02	4.06E-02	4.03E-02	1.56E-03	2.73E-03	2.54E-03	9.33E-01
6.0E+00	2.15E-02	3.10E-02	3.73E-02	3.77E-02	1.21E-02	8.92E-03	8.37E-03	2.64E-02	2.61E-02	1.31E-03	1.14E-03	1.04E-03	6.77E-01
7.0E+00	2.09E-02	2.20E-02	3.41E-02	3.44E-02	1.08E-02	4.62E-03	4.45E-03	1.68E-02	1.65E-02	1.25E-03	4.83E-04	4.42E-04	5.12E-01
8.0E+00	2.02E-02	1.52E-02	3.05E-02	3.06E-02	8.50E-03	3.39E-03	3.42E-03	1.06E-02	1.04E-02	1.04E-03	2.74E-04	2.64E-04	4.00E-01
1.0E+01	1.90E-02	6.80E-03	2.30E-02	2.30E-02	4.00E-03	3.20E-03	3.30E-03	4.20E-03	4.10E-03	5.10E-04	2.20E-04	2.30E-04	2.60E-01
1.5E+01	1.40E-02	2.00E-03	9.50E-03	9.10E-03	4.50E-04	1.90E-03	1.80E-03	5.00E-04	4.80E-04	5.00E-05	1.40E-04	1.40E-04	1.10E-01
2.0E+01	1.00E-02	1.90E-03	3.50E-03	3.20E-03	3.20E-04	7.20E-04	6.70E-04	7.70E-05	7.30E-05	3.30E-05	5.50E-05	5.10E-05	5.10E-02
3.0E+01	4.90E-03	1.00E-03	5.20E-04	4.50E-04	1.90E-04	1.00E-04	8.80E-05	3.70E-06	3.40E-06	1.90E-05	7.60E-06	6.60E-06	1.60E-02
4.0E+01	2.20E-03	4.10E-04	1.00E-04	8.20E-05	7.30E-05	1.90E-05	1.50E-05	3.50E-07	3.10E-07	7.60E-06	1.40E-06	1.10E-06	6.00E-03
6.0E+01	4.90E-04	7.50E-05	7.80E-06	5.60E-06	1.30E-05	1.40E-06	9.90E-07	1.10E-08	8.60E-09	1.30E-06	1.00E-07	7.30E-08	1.20E-03
1.0E+02	4.90E-05	6.10E-06	2.80E-07	1.50E-07	1.00E-06	4.80E-08	2.60E-08	1.30E-10	9.30E-11	1.00E-07	3.50E-09	1.90E-09	1.10E-04
E[keV]:	1.43E+01	1.92E+00	1.73E+00	1.68E+00	2.93E-01	2.22E-01	2.14E-01	9.50E-02	9.40E-02	2.70E-02	1.40E-02	1.40E-02	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	Total
0.0E+00	4.68E-02	2.19E-01	3.06E-01	4.83E-01	9.27E-01	1.20E+00	1.74E+00	2.15E+00	2.75E+00	4.16E+00	5.15E+00	7.19E+00	7.19E+00
5.0E-02	4.68E-02	2.19E-01	3.06E-01	4.83E-01	9.27E-01	1.20E+00	1.74E+00	2.15E+00	2.75E+00	4.15E+00	5.15E+00	7.18E+00	7.18E+00
1.0E-01	4.68E-02	2.19E-01	3.06E-01	4.83E-01	9.27E-01	1.20E+00	1.74E+00	2.15E+00	2.75E+00	4.13E+00	5.12E+00	7.15E+00	7.15E+00
1.5E-01	4.68E-02	2.19E-01	3.06E-01	4.83E-01	9.25E-01	1.19E+00	1.74E+00	2.14E+00	2.75E+00	4.09E+00	5.08E+00	7.11E+00	7.11E+00
2.0E-01	4.68E-02	2.19E-01	3.06E-01	4.83E-01	9.23E-01	1.19E+00	1.74E+00	2.14E+00	2.75E+00	4.04E+00	5.03E+00	7.05E+00	7.05E+00
3.0E-01	4.68E-02	2.19E-01	3.05E-01	4.82E-01	9.18E-01	1.19E+00	1.73E+00	2.14E+00	2.74E+00	3.91E+00	4.88E+00	6.86E+00	6.86E+00
4.0E-01	4.68E-02	2.18E-01	3.05E-01	4.82E-01	9.10E-01	1.18E+00	1.73E+00	2.13E+00	2.74E+00	3.74E+00	4.67E+00	6.57E+00	6.57E+00
5.0E-01	4.68E-02	2.18E-01	3.04E-01	4.82E-01	9.02E-01	1.17E+00	1.72E+00	2.12E+00	2.73E+00	3.56E+00	4.43E+00	6.20E+00	6.20E+00
6.0E-01	4.68E-02	2.17E-01	3.04E-01	4.81E-01	8.91E-01	1.16E+00	1.71E+00	2.11E+00	2.72E+00	3.38E+00	4.18E+00	5.77E+00	5.77E+00
7.0E-01	4.68E-02	2.17E-01	3.03E-01	4.80E-01	8.78E-01	1.15E+00	1.69E+00	2.09E+00	2.70E+00	3.22E+00	3.91E+00	5.31E+00	5.30E+00
8.0E-01	4.68E-02	2.16E-01	3.02E-01	4.80E-01	8.64E-01	1.13E+00	1.68E+00	2.08E+00	2.69E+00	3.06E+00	3.67E+00	4.85E+00	4.85E+00
1.0E+00	4.68E-02	2.14E-01	3.01E-01	4.78E-01	8.34E-01	1.10E+00	1.64E+00	2.04E+00	2.64E+00	2.85E+00	3.26E+00	4.04E+00	4.04E+00
1.2E+00	4.66E-02	2.12E-01	2.98E-01	4.75E-01	7.97E-01	1.06E+00	1.59E+00	1.99E+00	2.60E+00	2.71E+00	2.96E+00	3.45E+00	3.44E+00
1.4E+00	4.66E-02	2.09E-01	2.96E-01	4.72E-01	7.60E-01	1.02E+00	1.54E+00	1.93E+00	2.53E+00	2.61E+00	2.75E+00	3.03E+00	3.03E+00
1.6E+00	4.66E-02	2.06E-01	2.93E-01	4.70E-01	7.22E-01	9.70E-01	1.47E+00	1.87E+00	2.47E+00	2.52E+00	2.61E+00	2.76E+00	2.76E+00
1.8E+00	4.64E-02	2.03E-01	2.89E-01	4.66E-01	6.84E-01	9.24E-01	1.41E+00	1.80E+00	2.39E+00	2.44E+00	2.49E+00	2.58E+00	2.58E+00
2.0E+00	4.64E-02	1.99E-01	2.86E-01	4.62E-01	6.49E-01	8.77E-01	1.34E+00	1.72E+00	2.30E+00	2.35E+00	2.38E+00	2.43E+00	2.44E+00
2.4E+00	4.62E-02	1.91E-01	2.77E-01	4.53E-01	5.84E-01	7.86E-01	1.19E+00	1.55E+00	2.10E+00	2.15E+00	2.17E+00	2.20E+00	2.20E+00
3.0E+00	4.58E-02	1.78E-01	2.63E-01	4.37E-01	5.10E-01	6.66E-01	9.76E-01	1.30E+00	1.78E+00	1.81E+00	1.83E+00	1.86E+00	1.86E+00
4.0E+00	4.52E-02	1.53E-01	2.36E-01	4.06E-01	4.37E-01	5.23E-01	6.89E-01	9.27E-01	1.28E+00	1.29E+00	1.30E+00	1.33E+00	1.33E+00
5.0E+00	4.42E-02	1.28E-01	2.07E-01	3.69E-01	3.94E-01	4.34E-01	5.10E-01	6.73E-01	9.14E-01	9.18E-01	9.23E-01	9.33E-01	9.33E-01
6.0E+00	4.30E-02	1.05E-01	1.80E-01	3.55E-01	3.72E-01	3.66E-01	5.12E-01	6.68E-01	6.71E-01	6.72E-01	6.77E-01	6.77E-01	6.77E-01
7.0E+00	4.18E-02	8.58E-02	1.54E-01	2.92E-01	3.13E-01	3.22E-01	3.40E-01	4.07E-01	5.06E-01	5.09E-01	5.10E-01	5.12E-01	5.12E-01
8.0E+00	4.04E-02	7.08E-02	1.32E-01	2.54E-01	2.71E-01	2.78E-01	2.92E-01	3.34E-01	3.96E-01	3.99E-01	3.99E-01	4.00E-01	4.00E-01
1.0E+01	3.80E-02	5.16E-02	9.76E-02	1.90E-01	1.98E-01	2.04E-01	2.17E-01	2.34E-01	2.59E-01	2.60E-01	2.60E-01	2.61E-01	2.60E-01
1.5E+01	2.80E-02	3.20E-02	5.10E-02	8.74E-02	8.83E-02	9.21E-02	9.93E-02	1.01E-01	1.04E-01	1.04E-01	1.05E-01	1.05E-01	1.10E-01
2.0E+01	2.00E-02	2.36E-02	3.08E-02	4.36E-02	4.42E-02	4.57E-02	4.84E-02	4.87E-02	4.91E-02	4.92E-02	4.93E-02	4.95E-02	5.10E-02
3.0E+01	9.80E-03	1.18E-02	1.28E-02	1.46E-02	1.50E-02	1.52E-02	1.56E-02	1.56E-02	1.56E-02	1.56E-02	1.57E-02	1.57E-02	1.60E-02
4.0E+01	4.40E-03	5.22E-03	5.42E-03	5.75E-03	5.89E-03	5.93E-03	5.99E-03	5.99E-03	6.00E-03	6.01E-03	6.01E-03	6.02E-03	6.00E-03
6.0E+01	9.80E-04	1.13E-03	1.15E-03	1.17E-03	1.19E-03	1.20E-03	1.20E-03	1.20E-03	1.20E-03	1.20E-03	1.20E-03	1.20E-03	1.20E-03
1.0E+02	9.80E-05	1.10E-04	1.11E-04	1.11E-04	1.13E-04	1.13E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.10E-04
E[keV]:	1.43E+01	1.92E+00	1.73E+00	1.68E+00	2.93E-01	2.22E-01	2.14E-01	9.50E-02	9.40E-02	2.70E-02	1.40E-02	1.40E-02	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z												
0.0E+00	3.02E+00	4.43E+00	5.04E+00	5.44E+00	5.99E+00	6.26E+00	6.70E+00	6.88E+00	6.97E+00	7.14E+00	7.19E+00	7.19E+00
5.0E-02	3.02E+00	4.43E+00	5.03E+00	5.44E+00	5.98E+00	6.25E+00	6.70E+00	6.87E+00	6.96E+00	7.13E+00	7.18E+00	7.18E+00
1.0E-01	3.02E+00	4.40E+00	5.01E+00	5.41E+00	5.96E+00	6.23E+00	6.67E+00	6.85E+00	6.94E+00	7.11E+00	7.16E+00	7.15E+00
1.5E-01	3.02E+00	4.36E+00	4.97E+00	5.37E+00	5.92E+00	6.19E+00	6.63E+00	6.81E+00	6.89E+00	7.06E+00	7.11E+00	7.11E+00
2.0E-01	3.01E+00	4.30E+00	4.91E+00	5.31E+00	5.86E+00	6.13E+00	6.57E+00	6.74E+00	6.83E+00	7.00E+00	7.05E+00	7.05E+00
3.0E-01	2.95E+00	4.12E+00	4.72E+00	5.13E+00	5.67E+00	5.94E+00	6.38E+00	6.56E+00	6.64E+00	6.81E+00	6.86E+00	6.86E+00
4.0E-01	2.83E+00	3.84E+00	4.44E+00	4.85E+00	5.39E+00	5.66E+00	6.09E+00	6.27E+00	6.35E+00	6.53E+00	6.57E+00	6.57E+00
5.0E-01	2.64E+00	3.47E+00	4.08E+00	4.49E+00	5.03E+00	5.30E+00	5.72E+00	5.90E+00	5.98E+00	6.15E+00	6.20E+00	6.20E+00
6.0E-01	2.38E+00	3.05E+00	3.66E+00	4.06E+00	4.61E+00	4.88E+00	5.29E+00	5.46E+00	5.55E+00	5.72E+00	5.77E+00	5.77E+00
7.0E-01	2.09E+00	2.61E+00	3.21E+00	3.62E+00	4.16E+00	4.43E+00	4.83E+00	5.00E+00	5.09E+00	5.26E+00	5.31E+00	5.30E+00
8.0E-01	1.78E+00	2.17E+00	2.77E+00	3.18E+00	3.72E+00	3.99E+00	4.37E+00	4.55E+00	4.64E+00	4.80E+00	4.85E+00	4.85E+00
1.0E+00	1.19E+00	1.40E+00	2.00E+00	2.40E+00	2.94E+00	3.21E+00	3.56E+00	3.74E+00	3.83E+00	3.99E+00	4.04E+00	4.04E+00
1.2E+00	7.36E-01	8.48E-01	1.45E+00	1.85E+00	2.39E+00	2.65E+00	2.97E+00	3.15E+00	3.23E+00	3.40E+00	3.45E+00	3.44E+00
1.4E+00	4.28E-01	4.99E-01	1.10E+00	1.50E+00	2.02E+00	2.27E+00	2.56E+00	2.74E+00	2.82E+00	2.99E+00	3.03E+00	3.03E+00
1.6E+00	2.41E-01	2.98E-01	8.95E-01	1.29E+00	1.79E+00	2.04E+00	2.29E+00	2.47E+00	2.56E+00	2.72E+00	2.76E+00	2.76E+00
1.8E+00	1.35E-01	1.91E-01	7.79E-01	1.17E+00	1.65E+00	1.89E+00	2.11E+00	2.29E+00	2.37E+00	2.53E+00	2.58E+00	2.58E+00
2.0E+00	8.14E-02	1.37E-01	7.14E-01	1.10E+00	1.56E+00	1.79E+00	1.97E+00	2.15E+00	2.24E+00	2.39E+00	2.43E+00	2.44E+00
2.4E+00	4.72E-02	9.66E-02	6.44E-01	1.01E+00	1.41E+00	1.61E+00	1.75E+00	1.92E+00	2.01E+00	2.15E+00	2.20E+00	2.20E+00
3.0E+00	4.40E-02	7.48E-02	5.59E-01	8.81E-01	1.19E+00	1.35E+00	1.42E+00	1.59E+00	1.68E+00	1.81E+00	1.86E+00	1.86E+00
4.0E+00	3.20E-02	4.07E-02	3.98E-01	6.37E-01	9.03E-01	9.88E-01	9.20E-01	1.09E+00	1.17E+00	1.28E+00	1.33E+00	1.33E+00
5.0E+00	1.56E-02	1.87E-02	2.61E-01	4.23E-01	4.99E-01	5.39E-01	5.64E-01	7.26E-01	8.05E-01	8.89E-01	9.33E-01	9.33E-01
6.0E+00	6.44E-03	9.06E-03	1.66E-01	2.71E-01	3.05E-01	3.23E-01	3.47E-01	4.98E-01	5.72E-01	6.34E-01	6.77E-01	6.77E-01
7.0E+00	2.73E-03	5.23E-03	1.04E-01	1.71E-01	1.89E-01	1.98E-01	2.20E-01	3.58E-01	4.26E-01	4.70E-01	5.12E-01	5.12E-01
8.0E+00	1.60E-03	3.68E-03	6.61E-02	1.08E-01	1.22E-01	1.29E-01	1.46E-01	2.68E-01	3.29E-01	3.60E-01	4.00E-01	4.00E-01
1.0E+01	1.36E-03	2.38E-03	2.70E-02	4.38E-02	5.70E-02	6.34E-02	7.14E-02	1.63E-01	2.09E-01	2.23E-01	2.61E-01	2.60E-01
1.5E+01	8.40E-04	9.40E-04	3.82E-03	5.82E-03	1.30E-02	1.68E-02	1.77E-02	5.41E-02	7.31E-02	7.71E-02	1.05E-01	1.10E-01
2.0E+01	3.14E-04	3.80E-04	8.18E-04	1.13E-03	3.81E-03	5.25E-03	5.89E-03	1.87E-02	2.57E-02	2.95E-02	4.95E-02	5.10E-02
3.0E+01	4.16E-05	7.96E-05	1.00E-04	1.15E-04	4.67E-04	6.67E-04	1.05E-03	2.85E-03	3.89E-03	5.89E-03	1.57E-02	1.60E-02
4.0E+01	7.20E-06	2.24E-05	2.43E-05	2.57E-05	8.57E-05	1.24E-04	2.70E-04	5.98E-04	7.98E-04	1.62E-03	6.02E-03	6.00E-03
6.0E+01	4.92E-07	3.09E-06	3.14E-06	3.19E-06	7.15E-06	9.95E-06	3.59E-05	5.83E-05	7.39E-05	2.24E-04	1.20E-03	1.20E-03
1.0E+02	1.46E-08	2.15E-07	2.15E-07	2.16E-07	3.20E-07	4.16E-07	2.42E-06	3.02E-06	3.58E-06	1.58E-05	1.14E-04	1.10E-04
E[keV]:	1.40E-02	2.70E-02	9.40E-02	9.50E-02	2.14E-01	2.22E-01	2.93E-01	1.68E+00	1.73E+00	1.92E+00	1.43E+01	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10⁰
10-1
10-2
0.0
36Kr
Σi Ji(Q)
Q

Z=37

Compton profiles for the single orbitals and binding energies

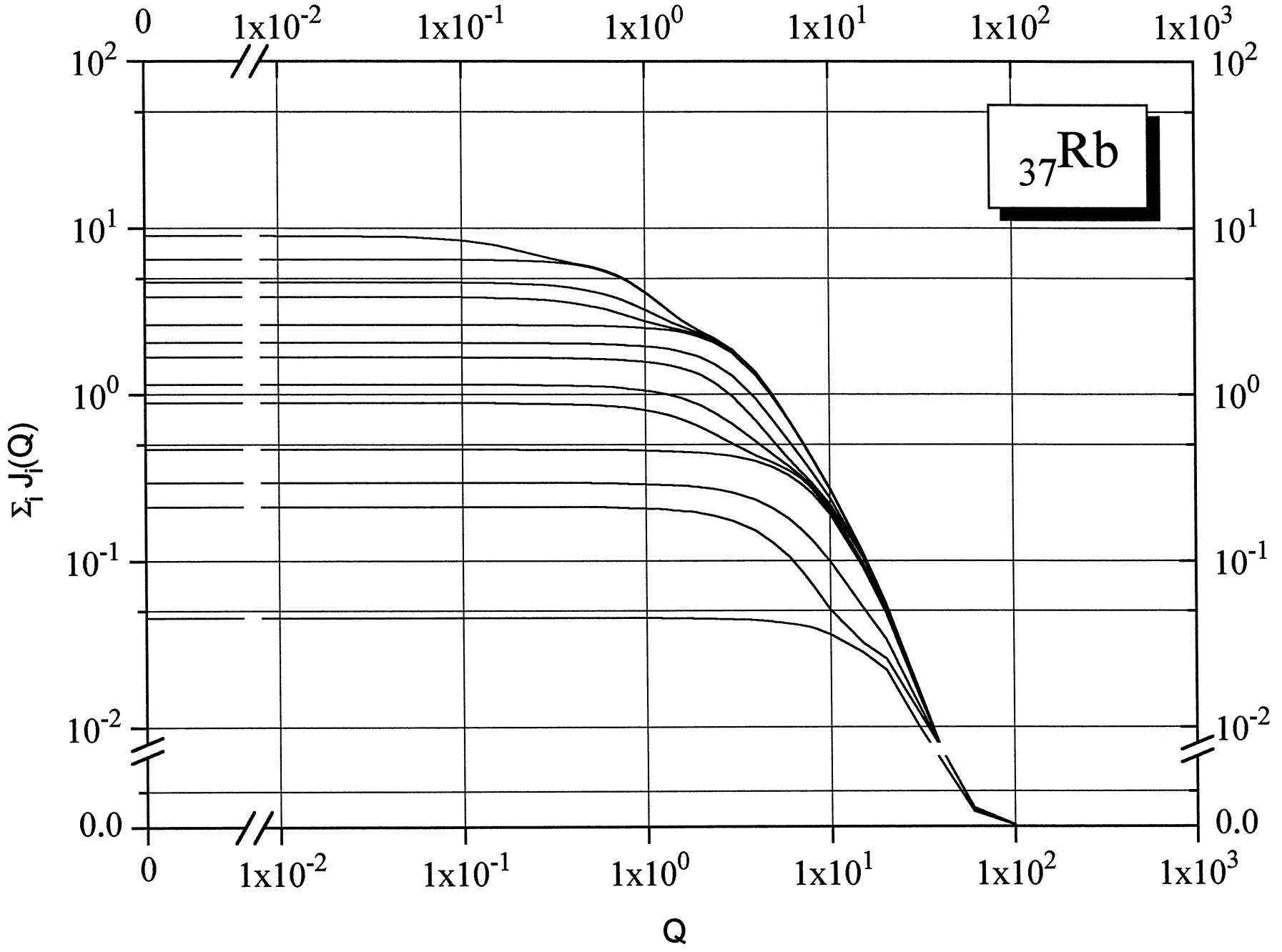
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(1)	Total
0.0E+00	2.27E-02	8.35E-02	4.19E-02	4.29E-02	2.13E-01	1.29E-01	1.31E-01	9.50E-02	9.57E-02	6.31E-01	4.33E-01	4.43E-01	2.56E+00	9.08E+00
5.0E-02	2.27E-02	8.35E-02	4.19E-02	4.29E-02	2.13E-01	1.29E-01	1.31E-01	9.50E-02	9.57E-02	6.29E-01	4.33E-01	4.43E-01	2.40E+00	8.93E+00
1.0E-01	2.27E-02	8.35E-02	4.19E-02	4.29E-02	2.13E-01	1.29E-01	1.31E-01	9.50E-02	9.57E-02	6.20E-01	4.33E-01	4.43E-01	2.00E+00	8.50E+00
1.5E-01	2.27E-02	8.34E-02	4.19E-02	4.29E-02	2.12E-01	1.29E-01	1.31E-01	9.50E-02	9.57E-02	6.07E-01	4.33E-01	4.42E-01	1.48E+00	7.95E+00
2.0E-01	2.27E-02	8.34E-02	4.19E-02	4.29E-02	2.11E-01	1.29E-01	1.31E-01	9.50E-02	9.57E-02	5.89E-01	4.32E-01	4.41E-01	9.77E-01	7.41E+00
3.0E-01	2.27E-02	8.33E-02	4.19E-02	4.29E-02	2.09E-01	1.29E-01	1.31E-01	9.50E-02	9.57E-02	5.39E-01	4.28E-01	4.37E-01	3.24E-01	6.63E+00
4.0E-01	2.27E-02	8.31E-02	4.19E-02	4.29E-02	2.06E-01	1.29E-01	1.31E-01	9.50E-02	9.57E-02	4.78E-01	4.18E-01	4.25E-01	9.72E-02	6.20E+00
5.0E-01	2.27E-02	8.29E-02	4.19E-02	4.29E-02	2.02E-01	1.28E-01	1.31E-01	9.50E-02	9.57E-02	4.10E-01	4.00E-01	4.06E-01	5.56E-02	5.91E+00
6.0E-01	2.27E-02	8.26E-02	4.19E-02	4.29E-02	1.98E-01	1.28E-01	1.31E-01	9.50E-02	9.57E-02	3.41E-01	3.75E-01	3.79E-01	5.37E-02	5.60E+00
7.0E-01	2.27E-02	8.23E-02	4.19E-02	4.29E-02	1.92E-01	1.28E-01	1.30E-01	9.50E-02	9.57E-02	2.76E-01	3.43E-01	3.45E-01	5.00E-02	5.25E+00
8.0E-01	2.27E-02	8.20E-02	4.19E-02	4.29E-02	1.87E-01	1.28E-01	1.30E-01	9.50E-02	9.56E-02	2.17E-01	3.07E-01	3.06E-01	4.14E-02	4.88E+00
1.0E+00	2.27E-02	8.11E-02	4.19E-02	4.29E-02	1.73E-01	1.27E-01	1.29E-01	9.49E-02	9.56E-02	1.26E-01	2.28E-01	2.25E-01	2.24E-02	4.16E+00
1.2E+00	2.27E-02	8.01E-02	4.19E-02	4.29E-02	1.58E-01	1.26E-01	1.28E-01	9.47E-02	9.54E-02	7.11E-02	1.57E-01	1.52E-01	1.04E-02	3.56E+00
1.4E+00	2.26E-02	7.90E-02	4.19E-02	4.29E-02	1.43E-01	1.23E-01	1.25E-01	9.44E-02	9.50E-02	4.32E-02	1.01E-01	9.58E-02	4.61E-03	3.11E+00
1.6E+00	2.26E-02	7.76E-02	4.19E-02	4.29E-02	1.27E-01	1.20E-01	1.22E-01	9.38E-02	9.44E-02	3.20E-02	6.13E-02	5.75E-02	2.30E-03	2.80E+00
1.8E+00	2.26E-02	7.62E-02	4.19E-02	4.28E-02	1.11E-01	1.16E-01	1.18E-01	9.29E-02	9.34E-02	2.90E-02	3.64E-02	3.37E-02	1.54E-03	2.58E+00
2.0E+00	2.25E-02	7.45E-02	4.18E-02	4.28E-02	9.55E-02	1.12E-01	1.13E-01	9.16E-02	9.21E-02	2.87E-02	2.18E-02	2.01E-02	1.37E-03	2.42E+00
2.4E+00	2.25E-02	7.10E-02	4.17E-02	4.27E-02	6.86E-02	1.00E-01	1.01E-01	8.79E-02	8.83E-02	2.72E-02	1.03E-02	9.93E-03	1.34E-03	2.16E+00
3.0E+00	2.23E-02	6.49E-02	4.14E-02	4.23E-02	3.92E-02	7.96E-02	7.90E-02	7.95E-02	7.97E-02	1.88E-02	8.26E-03	8.38E-03	9.88E-04	1.86E+00
4.0E+00	2.20E-02	5.34E-02	4.05E-02	4.13E-02	1.67E-02	4.60E-02	4.47E-02	6.11E-02	6.10E-02	6.02E-03	6.86E-03	6.73E-03	3.23E-04	1.37E+00
5.0E+00	2.15E-02	4.22E-02	3.89E-02	3.96E-02	1.21E-02	2.27E-02	2.15E-02	4.31E-02	4.29E-02	1.96E-03	3.78E-03	3.57E-03	9.67E-05	9.75E-01
6.0E+00	2.10E-02	3.18E-02	3.66E-02	3.71E-02	1.19E-02	1.04E-02	9.71E-03	2.88E-02	2.86E-02	1.44E-03	1.68E-03	1.54E-03	6.56E-05	7.10E-01
7.0E+00	2.04E-02	2.31E-02	3.37E-02	3.41E-02	1.10E-02	5.20E-03	4.96E-03	1.88E-02	1.85E-02	1.41E-03	7.14E-04	6.50E-04	6.43E-05	5.36E-01
8.0E+00	1.98E-02	1.61E-02	3.05E-02	3.06E-02	8.99E-03	3.52E-03	3.52E-03	1.21E-02	1.19E-02	1.23E-03	3.69E-04	3.51E-04	5.63E-05	4.19E-01
1.0E+01	1.80E-02	7.40E-03	2.40E-02	2.30E-02	4.50E-03	3.20E-03	3.30E-03	5.00E-03	4.90E-03	6.50E-04	2.70E-04	2.70E-04	3.00E-05	2.70E-01
1.5E+01	1.40E-02	2.00E-03	1.00E-02	9.70E-03	5.10E-04	2.00E-03	2.00E-03	6.20E-04	6.00E-04	6.60E-05	1.80E-04	1.80E-04	3.00E-06	1.10E-01
2.0E+01	1.10E-02	1.90E-03	3.90E-03	3.60E-03	3.20E-04	8.10E-04	7.60E-04	9.80E-05	9.30E-05	3.60E-05	7.50E-05	6.90E-05	1.60E-06	5.40E-02
3.0E+01	5.10E-03	1.10E-03	6.00E-04	5.20E-04	2.00E-04	1.20E-04	1.00E-04	4.90E-06	4.50E-06	2.30E-05	1.10E-05	9.50E-06	1.00E-06	1.70E-02
4.0E+01	2.30E-03	4.50E-04	1.20E-04	9.70E-05	8.10E-05	2.30E-05	1.90E-05	4.70E-07	4.20E-07	9.40E-06	2.10E-06	1.70E-06	4.30E-07	6.50E-03
6.0E+01	5.40E-04	8.40E-05	9.40E-06	6.70E-06	1.50E-05	1.70E-06	1.20E-06	1.40E-08	1.20E-08	1.70E-06	1.50E-07	1.10E-07	7.60E-08	1.30E-03
1.0E+02	5.60E-05	7.10E-06	3.40E-07	1.80E-07	1.20E-06	6.00E-08	3.20E-08	1.80E-10	1.30E-10	1.40E-07	5.40E-09	2.80E-09	6.20E-09	1.30E-04
E[keV]:	1.52E+01	2.07E+00	1.86E+00	1.80E+00	3.21E-01	2.48E-01	2.39E-01	1.12E+00	1.11E-01	2.90E-02	1.40E-02	1.40E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(1)	Total
0.0E+00	4.54E-02	2.12E-01	2.96E-01	4.68E-01	8.94E-01	1.15E+00	1.68E+00	2.06E+00	2.63E+00	3.89E+00	4.76E+00	6.53E+00	9.09E+00	9.08E+00
5.0E-02	4.54E-02	2.12E-01	2.96E-01	4.68E-01	8.94E-01	1.15E+00	1.68E+00	2.06E+00	2.63E+00	3.89E+00	4.75E+00	6.53E+00	8.93E+00	8.93E+00
1.0E-01	4.54E-02	2.12E-01	2.96E-01	4.68E-01	8.94E-01	1.15E+00	1.68E+00	2.06E+00	2.63E+00	3.87E+00	4.74E+00	6.51E+00	8.51E+00	8.50E+00
1.5E-01	4.54E-02	2.12E-01	2.96E-01	4.68E-01	8.92E-01	1.15E+00	1.67E+00	2.05E+00	2.63E+00	3.84E+00	4.71E+00	6.48E+00	7.96E+00	7.95E+00
2.0E-01	4.54E-02	2.12E-01	2.96E-01	4.68E-01	8.90E-01	1.15E+00	1.67E+00	2.05E+00	2.63E+00	3.80E+00	4.67E+00	6.43E+00	7.41E+00	7.41E+00
3.0E-01	4.54E-02	2.12E-01	2.96E-01	4.67E-01	8.85E-01	1.14E+00	1.67E+00	2.05E+00	2.62E+00	3.70E+00	4.56E+00	6.30E+00	6.63E+00	6.63E+00
4.0E-01	4.54E-02	2.12E-01	2.95E-01	4.67E-01	8.79E-01	1.14E+00	1.66E+00	2.04E+00	2.62E+00	3.57E+00	4.41E+00	6.11E+00	6.20E+00	6.20E+00
5.0E-01	4.54E-02	2.11E-01	2.95E-01	4.67E-01	8.71E-01	1.13E+00	1.65E+00	2.03E+00	2.60E+00	3.42E+00	4.22E+00	5.85E+00	5.90E+00	5.91E+00
6.0E-01	4.54E-02	2.11E-01	2.94E-01	4.66E-01	8.62E-01	1.12E+00	1.64E+00	2.02E+00	2.60E+00	3.28E+00	4.03E+00	5.54E+00	5.60E+00	5.60E+00
7.0E-01	4.54E-02	2.10E-01	2.94E-01	4.65E-01	8.49E-01	1.12E+00	1.63E+00	2.01E+00	2.59E+00	3.12E+00	3.82E+00	5.20E+00	5.25E+00	5.25E+00
8.0E-01	4.54E-02	2.09E-01	2.93E-01	4.65E-01	8.39E-01	1.09E+00	1.61E+00	1.99E+00	2.57E+00	3.00E+00	3.62E+00	4.84E+00	4.88E+00	4.88E+00
1.0E+00	4.54E-02	2.08E-01	2.91E-01	4.63E-01	8.09E-01	1.06E+00	1.58E+00	1.96E+00	2.53E+00	2.78E+00	3.24E+00	4.14E+00	4.16E+00	4.16E+00
1.2E+00	4.54E-02	2.06E-01	2.89E-01	4.61E-01	7.77E-01	1.03E+00	1.54E+00	1.92E+00	2.49E+00	2.63E+00	2.95E+00	3.56E+00	3.57E+00	3.56E+00
1.4E+00	4.52E-02	2.03E-01	2.87E-01	4.59E-01	7.45E-01	9.91E-01	1.49E+00	1.87E+00	2.44E+00	2.52E+00	2.73E+00	3.11E+00	3.11E+00	3.11E+00
1.6E+00	4.52E-02	2.00E-01	2.84E-01	4.56E-01	7.10E-01	9.50E-01	1.44E+00	1.81E+00	2.38E+00	2.44E+00	2.57E+00	2.80E+00	2.80E+00	2.80E+00
1.8E+00	4.52E-02	1.98E-01	2.81E-01	4.53E-01	6.75E-01	9.07E-01	1.38E+00	1.75E+00	2.31E+00	2.37E+00	2.44E+00	2.58E+00	2.58E+00	2.58E+00
2.0E+00	4.50E-02	1.94E-01	2.78E-01	4.49E-01	6.40E-01	8.64E-01	1.32E+00	1.68E+00	2.23E+00	2.29E+00	2.34E+00	2.42E+00	2.42E+00	2.42E+00
2.4E+00	4.50E-02	1.87E-01	2.70E-01	4.41E-01	5.78E-01	7.78E-01	1.18E+00	1.53E+00	2.06E+00	2.12E+00	2.14E+00	2.18E+00	2.18E+00	2.18E+00
3.0E+00	4.46E-02	1.74E-01	2.57E-01	4.26E-01	5.05E-01	6.64E-01	9.80E-01	1.30E+00	1.78E+00	1.81E+00	1.83E+00	1.86E+00	1.86E+00	1.86E+00
4.0E+00	4.40E-02	1.51E-01	2.32E-01	3.97E-01	4.30E-01	5.22E-01	7.01E-01	9.46E-01	1.31E+00	1.32E+00	1.34E+00	1.36E+00	1.36E+00	1.37E+00
5.0E+00	4.30E-02	1.27E-01	2.04E-01	3.68E-01	4.33E-01	5.19E-01	6.92E-01	9.49E-01	9.53E-01	9.60E-01	9.75E-01	9.75E-01	9.75E-01	9.75E-01
6.0E+00	4.20E-02	1.06E-01	1.79E-01	3.27E-01	3.51E-01	3.72E-01	4.11E-01	5.26E-01	6.97E-01	7.00E-01	7.04E-01	7.10E-01	7.10E-01	7.10E-01
7.0E+00	4.08E-02	8.70E-02	1.54E-01	2.91E-01	3.13E-01	3.23E-01	3.43E-01	4.18E-01	5.29E-01	5.32E-01	5.33E-01	5.36E-01	5.36E-01	5.36E-01
8.0E+00	3.96E-02	7.18E-02	1.33E-01	2.55E-01	2.73E-01	2.80E-01	2.94E-01	3.43E-01	4.14E-01	4.17E-01	4.17E-01	4.19E-01	4.19E-01	4.19E-01
1.0E+01	3.60E-02	5.08E-02	9.88E-02	1.91E-01	2.00E-01	2.06E-01	2.19E-01	2.39E-01	2.69E-01	2.70E-01	2.71E-01	2.72E-01	2.72E-01	2.70E-01
1.5E+01	2.80E-02	3.20E-02	5.20E-02	9.08E-02	9.18E-02	9.58E-02	1.04E-01	1.06E-01	1.10E-01	1.10E-01	1.10E-01	1.11E-01	1.11E-01	1.10E-01
2.0E+01	2.20E-02	2.58E-02	3.36E-02	4.80E-02	4.86E-02	5.03E-02	5.33E-02	5.37E-02	5.43E-02	5.43E-02	5.45E-02	5.47E-02	5.47E-02	5.40E-02
3.0E+01	1.02E-02	1.24E-02	1.36E-02	1.57E-02	1.61E-02	1.63E-02	1.67E-02	1.67E-02	1.68E-02	1.68E-02	1.68E-02	1.69E-02	1.69E-02	1.70E-02
4.0E+01	4.60E-03	5.50E-03	5.74E-03	6.13E-03	6.29E-03	6.34E-03	6.41E-03	6.41E-03	6.42E-03	6.44E-03	6.44E-03	6.45E-03	6.45E-03	6.50E-03
6.0E+01	1.08E-03	1.25E-03	1.27E-03	1.29E-03	1.32E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.30E-03
1.0E+02	1.12E-04	1.26E-04	1.27E-04	1.28E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.31E-04	1.31E-04	1.31E-04	1.31E-04	1.30E-04
E[keV]:	1.52E+01	2.07E+00	1.86E+00	1.80E+00	3.21E-01	2.48E-01	2.39E-01	1.12E+00	1.11E-01	2.90E-02	1.40E-02	1.40E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z														
0.0E+00	2.56E+00	5.20E+00	6.46E+00	7.03E+00	7.56E+00	7.82E+00	8.24E+00	8.62E+00	8.79E+00	8.88E+00	9.04E+00	9.09E+00	9.08E+00	
5.0E-02	2.40E+00	5.04E+00	6.30E+00	6.87E+00	7.39E+00	7.65E+00	8.08E+00	8.46E+00	8.63E+00	8.71E+00	8.88E+00	8.93E+00	8.93E+00	
1.0E-01	2.00E+00	4.64E+00	5.88E+00	6.45E+00	6.98E+00	7.23E+00	7.66E+00	8.04E+00	8.21E+00	8.30E+00	8.46E+00	8.51E+00	8.50E+00	
1.5E-01	1.48E+00	4.11E+00	5.33E+00	5.90E+00	6.43E+00	6.68E+00	7.11E+00	7.49E+00	7.66E+00	7.74E+00	7.91E+00	7.96E+00	7.95E+00	
2.0E-01	9.77E-01	3.60E+00	4.78E+00	5.36E+00	5.88E+00	6.14E+00	6.56E+00	6.94E+00	7.11E+00	7.20E+00	7.36E+00	7.41E+00	7.41E+00	
3.0E-01	3.24E-01	2.93E+00	4.01E+00	4.58E+00	5.10E+00	5.36E+00	5.78E+00	6.16E+00	6.33E+00	6.42E+00	6.58E+00	6.63E+00	6.63E+00	
4.0E-01	9.72E-02	2.63E+00	3.59E+00	4.16E+00	4.69E+00	4.95E+00	5.36E+00	5.74E+00	5.91E+00	5.99E+00	6.16E+00	6.20E+00	6.20E+00	
5.0E-01	5.56E-02	2.48E+00	3.30E+00	3.87E+00	4.40E+00	4.65E+00	5.06E+00	5.44E+00	5.61E+00	5.69E+00	5.86E+00	5.90E+00	5.91E+00	
6.0E-01	5.37E-02	2.32E+00	3.00E+00	3.58E+00	4.10E+00	4.36E+00	4.75E+00	5.13E+00	5.30E+00	5.39E+00	5.55E+00	5.60E+00	5.60E+00	
7.0E-01	5.00E-02	2.12E+00	2.67E+00	3.24E+00	3.76E+00	4.02E+00	4.40E+00	4.78E+00	4.95E+00	5.04E+00	5.20E+00	5.25E+00	5.25E+00	
8.0E-01	4.14E-02	1.88E+00	2.31E+00	2.89E+00	3.41E+00	3.66E+00	4.04E+00	4.42E+00	4.59E+00	4.67E+00	4.84E+00	4.88E+00	4.88E+00	
1.0E+00	2.24E-02	1.38E+00	1.63E+00	2.20E+00	2.72E+00	2.97E+00	3.32E+00	3.70E+00	3.87E+00	3.96E+00	4.12E+00	4.16E+00	4.16E+00	
1.2E+00	1.04E-02	9.32E-01	1.07E+00	1.65E+00	2.16E+00	2.41E+00	2.73E+00	3.11E+00	3.28E+00	3.36E+00	3.52E+00	3.57E+00	3.56E+00	
1.4E+00	4.61E-03	5.90E-01	6.76E-01	1.25E+00	1.75E+00	1.99E+00	2.28E+00	2.66E+00	2.83E+00	2.91E+00	3.07E+00	3.11E+00	3.11E+00	
1.6E+00	2.30E-03	3.55E-01	4.19E-01	9.85E-01	1.47E+00	1.71E+00	1.97E+00	2.34E+00	2.51E+00	2.60E+00	2.75E+00	2.80E+00	2.80E+00	
1.8E+00	1.54E-03	2.09E-01	2.67E-01	8.28E-01	1.30E+00	1.53E+00	1.75E+00	2.13E+00	2.30E+00	2.38E+00	2.53E+00	2.58E+00	2.58E+00	
2.0E+00	1.37E-03	1.25E-01	1.83E-01	7.35E-01	1.19E+00	1.41E+00	1.60E+00	1.97E+00	2.14E+00	2.22E+00	2.37E+00	2.42E+00	2.42E+00	
2.4E+00	1.34E-03	6.17E-02	1.16E-01	6.46E-01	1.05E+00	1.25E+00	1.39E+00	1.74E+00	1.91E+00	1.99E+00	2.13E+00	2.18E+00	2.18E+00	
3.0E+00	9.88E-04	5.10E-02	8.86E-02	5.67E-01	8.93E-01	1.04E+00	1.12E+00	1.44E+00	1.61E+00	1.69E+00	1.82E+00	1.86E+00	1.86E+00	
4.0E+00	3.23E-04	4.10E-02	5.30E-02	4.19E-01	5.98E-01	6.90E-01	7.23E-01	9.68E-01	1.13E+00	1.21E+00	1.32E+00	1.36E+00	1.37E+00	
5.0E+00	9.67E-05	2.19E-02	2.59E-02	2.83E-01	3.69E-01	4.15E-01	4.39E-01	6.11E-01	7.70E-01	8.47E-01	9.32E-01	9.75E-01	9.75E-01	
6.0E+00	6.56E-05	9.59E-03	1.25E-02	1.84E-01	2.23E-01	2.44E-01	2.68E-01	3.83E-01	5.31E-01	6.04E-01	6.68E-01	7.10E-01	7.10E-01	
7.0E+00	6.43E-05	4.09E-03	6.91E-03	1.18E-01	1.38E-01	1.48E-01	1.70E-01	2.45E-01	3.82E-01	4.49E-01	4.95E-01	5.36E-01	5.36E-01	
8.0E+00	5.63E-05	2.20E-03	4.66E-03	7.61E-02	9.01E-02	9.72E-02	1.15E-01	1.64E-01	2.86E-01	3.47E-01	3.79E-01	4.19E-01	4.19E-01	
1.0E+01	3.00E-05	1.65E-03	2.95E-03	3.24E-02	4.56E-02	5.19E-02	6.10E-02	8.10E-02	1.73E-01	2.21E-01	2.36E-01	2.72E-01	2.70E-01	
1.5E+01	3.00E-06	1.08E-03	1.22E-03	4.82E-03	1.28E-02	1.68E-02	1.78E-02	2.03E-02	5.91E-02	7.91E-02	8.31E-02	1.11E-01	1.10E-01	
2.0E+01	1.60E-06	4.28E-04	5.00E-04	1.05E-03	4.10E-03	5.72E-03	6.36E-03	6.75E-03	2.11E-02	2.89E-02	3.27E-02	5.47E-02	5.40E-02	
3.0E+01	1.00E-06	6.10E-05	1.07E-04	1.34E-04	5.34E-04	7.74E-04	1.17E-03	1.19E-03	3.27E-03	4.47E-03	6.67E-03	1.69E-02	1.70E-02	
4.0E+01	4.30E-07	1.14E-05	3.02E-05	3.28E-05	1.09E-04	1.55E-04	3.17E-04	3.19E-04	7.07E-04	9.47E-04	1.85E-03	6.45E-03	6.50E-03	
6.0E+01	7.60E-08	8.16E-07	4.22E-06	4.29E-06	9.09E-06	1.25E-05	4.25E-05	4.25E-05	6.93E-05	8.81E-05	2.56E-04	1.34E-03	1.30E-03	
1.0E+02	6.20E-09	2.82E-08	3.08E-07	3.09E-07	4.37E-07	5.57E-07	2.96E-06	2.96E-06	3.68E-06	4.36E-06	1.86E-05	1.31E-04	1.30E-04	
E[keV]:	0.00E+00	1.40E-02	2.90E-02	1.11E-01	2.39E-01	2.48E-01	3.21E-01	1.12E+00	1.80E+00	1.86E+00	2.07E+00	1.52E+01		


$_{37}$Rb
$\Sigma_i J_i(Q)$
Q
0
$1x10^{-2}$
$1x10^{-1}$
$1x10^{0}$
$1x10^{1}$
$1x10^{2}$
$1x10^{3}$
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0

Z=38

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(2)	Total
0.0E+00	2.21E-02	8.09E-02	4.06E-02	4.16E-02	2.04E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	5.73E-01	3.89E-01	3.97E-01	2.06E+00	1.01E+01
5.0E-02	2.21E-02	8.09E-02	4.06E-02	4.16E-02	2.04E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	5.71E-01	3.89E-01	3.97E-01	1.97E+00	9.97E+00
1.0E-01	2.21E-02	8.09E-02	4.06E-02	4.16E-02	2.04E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	5.64E-01	3.89E-01	3.97E-01	1.74E+00	9.48E+00
1.5E-01	2.21E-02	8.09E-02	4.06E-02	4.16E-02	2.04E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	5.54E-01	3.89E-01	3.97E-01	1.41E+00	8.81E+00
2.0E-01	2.21E-02	8.08E-02	4.06E-02	4.16E-02	2.03E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	5.40E-01	3.88E-01	3.96E-01	1.06E+00	8.07E+00
3.0E-01	2.21E-02	8.07E-02	4.06E-02	4.16E-02	2.01E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	5.02E-01	3.86E-01	3.93E-01	4.86E-01	6.83E+00
4.0E-01	2.21E-02	8.06E-02	4.06E-02	4.16E-02	1.98E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	4.54E-01	3.79E-01	3.87E-01	1.87E-01	6.09E+00
5.0E-01	2.21E-02	8.04E-02	4.06E-02	4.16E-02	1.95E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	3.99E-01	3.68E-01	3.74E-01	6.21E-02	5.69E+00
6.0E-01	2.21E-02	8.01E-02	4.06E-02	4.16E-02	1.91E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	3.41E-01	3.52E-01	3.56E-01	6.04E-02	5.42E+00
7.0E-01	2.21E-02	7.99E-02	4.06E-02	4.16E-02	1.86E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	2.85E-01	3.30E-01	3.33E-01	5.91E-02	5.15E+00
8.0E-01	2.21E-02	7.95E-02	4.06E-02	4.16E-02	1.81E-01	1.23E-01	1.25E-01	9.01E-02	9.07E-02	2.32E-01	3.03E-01	3.04E-01	5.68E-02	4.86E+00
1.0E+00	2.21E-02	7.88E-02	4.06E-02	4.16E-02	1.69E-01	1.22E-01	1.24E-01	9.00E-02	9.06E-02	1.45E-01	2.41E-01	2.39E-01	4.10E-02	4.24E+00
1.2E+00	2.20E-02	7.79E-02	4.06E-02	4.16E-02	1.55E-01	1.21E-01	1.23E-01	8.99E-02	9.05E-02	8.62E-02	1.78E-01	1.74E-01	2.33E-02	3.66E+00
1.4E+00	2.20E-02	7.68E-02	4.06E-02	4.16E-02	1.41E-01	1.19E-01	1.21E-01	8.96E-02	9.02E-02	5.25E-02	1.23E-01	1.18E-01	1.17E-02	3.20E+00
1.6E+00	2.20E-02	7.56E-02	4.06E-02	4.16E-02	1.26E-01	1.16E-01	1.18E-01	8.92E-02	8.98E-02	3.65E-02	8.03E-02	7.61E-02	5.65E-03	2.85E+00
1.8E+00	2.19E-02	7.42E-02	4.06E-02	4.15E-02	1.11E-01	1.13E-01	1.15E-01	8.86E-02	8.91E-02	3.07E-02	5.05E-02	4.72E-02	3.12E-03	2.59E+00
2.0E+00	2.19E-02	7.28E-02	4.05E-02	4.15E-02	9.72E-02	1.09E-01	1.10E-01	8.76E-02	8.82E-02	2.95E-02	3.12E-02	2.90E-02	2.29E-03	2.41E+00
2.4E+00	2.18E-02	6.95E-02	4.04E-02	4.14E-02	7.14E-02	9.91E-02	9.96E-02	8.48E-02	8.52E-02	2.89E-02	1.36E-02	1.29E-02	2.11E-03	2.16E+00
3.0E+00	2.17E-02	6.38E-02	4.02E-02	4.11E-02	4.21E-02	8.06E-02	8.02E-02	7.80E-02	7.83E-02	2.20E-02	9.02E-03	9.15E-03	1.75E-03	1.87E+00
4.0E+00	2.14E-02	5.33E-02	3.94E-02	4.02E-02	1.79E-02	4.89E-02	4.76E-02	6.21E-02	6.20E-02	8.01E-03	8.08E-03	8.01E-03	6.66E-04	1.40E+00
5.0E+00	2.10E-02	4.26E-02	3.79E-02	3.87E-02	1.21E-02	2.53E-02	2.41E-02	4.52E-02	4.50E-02	2.52E-03	4.90E-03	4.67E-03	1.95E-04	1.01E+00
6.0E+00	2.05E-02	3.26E-02	3.59E-02	3.65E-02	1.17E-02	1.20E-02	1.12E-02	3.12E-02	3.09E-02	1.59E-03	2.33E-03	2.15E-03	1.09E-04	7.43E-01
7.0E+00	2.00E-02	2.40E-02	3.33E-02	3.37E-02	1.11E-02	5.92E-03	5.59E-03	2.08E-02	2.05E-02	1.55E-03	1.01E-03	9.22E-04	1.05E-04	5.61E-01
8.0E+00	1.94E-02	1.71E-02	3.03E-02	3.05E-02	9.41E-03	3.73E-03	3.68E-03	1.36E-02	1.34E-02	1.41E-03	4.94E-04	4.61E-04	9.64E-05	4.38E-01
1.0E+01	1.80E-02	8.10E-03	2.40E-02	2.40E-02	5.10E-03	3.10E-03	3.20E-03	5.80E-03	5.70E-03	8.10E-04	3.00E-04	3.10E-04	5.60E-05	2.90E-01
1.5E+01	1.40E-02	2.10E-03	1.10E-02	1.00E-02	5.90E-04	2.20E-03	2.10E-03	7.60E-04	7.30E-04	8.80E-05	2.30E-04	2.20E-04	6.00E-06	1.20E-01
2.0E+01	1.10E-02	1.90E-03	4.20E-03	3.90E-03	3.10E-04	9.10E-04	8.50E-04	1.20E-04	1.20E-04	4.00E-05	9.70E-05	9.00E-05	2.70E-06	5.70E-02
3.0E+01	5.30E-03	1.10E-03	6.80E-04	5.90E-04	2.10E-04	1.40E-04	1.20E-04	6.40E-06	5.90E-06	2.70E-05	1.50E-05	1.30E-05	1.80E-06	1.80E-02
4.0E+01	2.50E-03	4.90E-04	1.40E-04	1.10E-04	9.00E-05	2.70E-05	2.20E-05	6.30E-07	5.50E-07	1.20E-05	2.90E-06	2.30E-06	7.80E-07	7.00E-03
6.0E+01	5.90E-04	9.40E-05	1.10E-05	8.00E-06	1.70E-05	2.10E-06	1.50E-06	1.90E-08	1.60E-08	2.10E-06	2.20E-07	1.60E-07	1.40E-07	1.50E-03
1.0E+02	6.30E-05	8.10E-06	4.20E-07	2.20E-07	1.40E-06	7.50E-08	4.00E-08	2.50E-10	1.70E-10	1.80E-07	7.80E-09	4.10E-09	1.20E-08	1.50E-04

E[keV]: 1.61E+01 2.22E+00 2.01E+00 1.94E+00 3.58E-01 2.80E-01 2.69E-01 1.35E-01 1.33E-01 3.80E-02 2.20E-02 2.20E-02 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

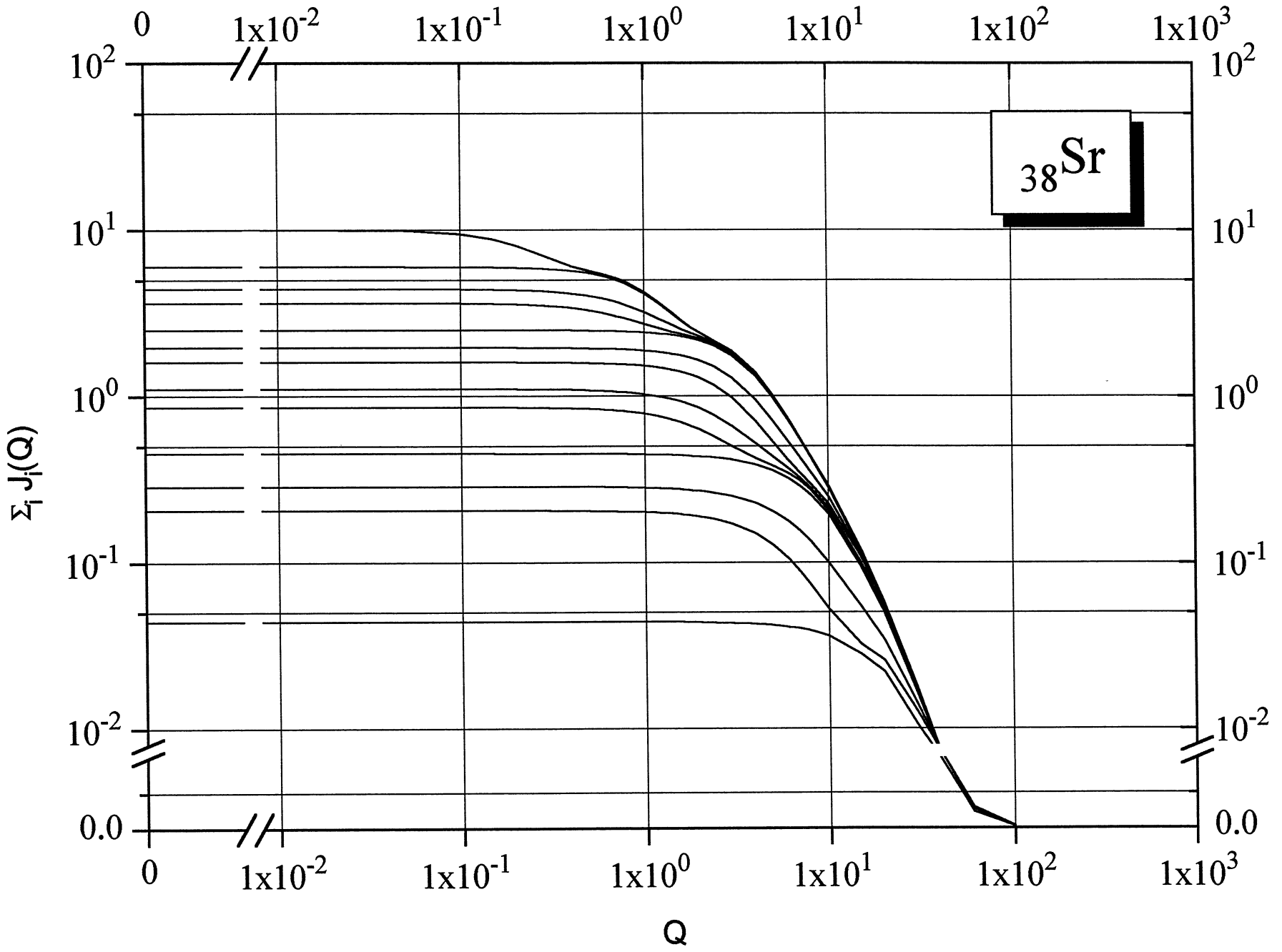
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(2)	Total
0.0E+00	4.42E-02	2.06E-01	2.87E-01	4.54E-01	8.62E-01	1.11E+00	1.61E+00	1.97E+00	2.51E+00	3.66E+00	4.44E+00	6.02E+00	1.01E+01	1.01E+01
5.0E-02	4.42E-02	2.06E-01	2.87E-01	4.54E-01	8.62E-01	1.11E+00	1.61E+00	1.97E+00	2.51E+00	3.65E+00	4.43E+00	6.02E+00	9.96E+00	9.97E+00
1.0E-01	4.42E-02	2.06E-01	2.87E-01	4.54E-01	8.62E-01	1.11E+00	1.61E+00	1.97E+00	2.51E+00	3.64E+00	4.42E+00	6.01E+00	9.49E+00	9.48E+00
1.5E-01	4.42E-02	2.06E-01	2.87E-01	4.54E-01	8.62E-01	1.11E+00	1.61E+00	1.97E+00	2.51E+00	3.62E+00	4.40E+00	5.99E+00	8.81E+00	8.81E+00
2.0E-01	4.42E-02	2.06E-01	2.87E-01	4.53E-01	8.59E-01	1.11E+00	1.61E+00	1.97E+00	2.51E+00	3.59E+00	4.37E+00	5.95E+00	8.07E+00	8.07E+00
3.0E-01	4.42E-02	2.06E-01	2.87E-01	4.53E-01	8.55E-01	1.10E+00	1.60E+00	1.96E+00	2.51E+00	3.51E+00	4.28E+00	5.85E+00	6.83E+00	6.83E+00
4.0E-01	4.42E-02	2.05E-01	2.87E-01	4.53E-01	8.49E-01	1.10E+00	1.60E+00	1.96E+00	2.50E+00	3.41E+00	4.17E+00	5.71E+00	6.09E+00	6.09E+00
5.0E-01	4.42E-02	2.05E-01	2.86E-01	4.53E-01	8.43E-01	1.09E+00	1.59E+00	1.95E+00	2.49E+00	3.29E+00	4.03E+00	5.52E+00	5.65E+00	5.69E+00
6.0E-01	4.42E-02	2.04E-01	2.86E-01	4.52E-01	8.34E-01	1.08E+00	1.58E+00	1.94E+00	2.48E+00	3.17E+00	3.87E+00	5.29E+00	5.42E+00	5.42E+00
7.0E-01	4.42E-02	2.04E-01	2.85E-01	4.52E-01	8.24E-01	1.07E+00	1.57E+00	1.93E+00	2.47E+00	3.04E+00	3.70E+00	5.04E+00	5.15E+00	5.15E+00
8.0E-01	4.42E-02	2.03E-01	2.84E-01	4.51E-01	8.13E-01	1.06E+00	1.56E+00	1.92E+00	2.46E+00	2.93E+00	3.53E+00	4.75E+00	4.86E+00	4.86E+00
1.0E+00	4.42E-02	2.03E-01	2.84E-01	4.51E-01	7.87E-01	1.03E+00	1.53E+00	1.89E+00	2.43E+00	2.72E+00	3.20E+00	4.24E+00	4.24E+00	4.24E+00
1.2E+00	4.40E-02	2.00E-01	2.81E-01	4.47E-01	7.57E-01	9.99E-01	1.49E+00	1.85E+00	2.39E+00	2.57E+00	2.92E+00	3.62E+00	3.67E+00	3.66E+00
1.4E+00	4.40E-02	1.98E-01	2.79E-01	4.45E-01	7.27E-01	9.65E-01	1.45E+00	1.81E+00	2.35E+00	2.45E+00	2.70E+00	3.17E+00	3.20E+00	3.20E+00
1.6E+00	4.40E-02	1.95E-01	2.76E-01	4.43E-01	6.95E-01	9.27E-01	1.40E+00	1.76E+00	2.29E+00	2.37E+00	2.53E+00	2.83E+00	2.84E+00	2.85E+00
1.8E+00	4.38E-02	1.92E-01	2.73E-01	4.39E-01	6.61E-01	8.87E-01	1.35E+00	1.70E+00	2.24E+00	2.30E+00	2.40E+00	2.59E+00	2.59E+00	2.59E+00
2.0E+00	4.38E-02	1.89E-01	2.70E-01	4.36E-01	6.31E-01	8.49E-01	1.29E+00	1.64E+00	2.17E+00	2.23E+00	2.29E+00	2.41E+00	2.41E+00	2.41E+00
2.4E+00	4.36E-02	1.83E-01	2.63E-01	4.29E-01	5.72E-01	7.70E-01	1.17E+00	1.51E+00	2.02E+00	2.08E+00	2.10E+00	2.16E+00	2.16E+00	2.16E+00
3.0E+00	4.34E-02	1.71E-01	2.51E-01	4.16E-01	5.00E-01	6.61E-01	9.82E-01	1.29E+00	1.76E+00	1.81E+00	1.83E+00	1.86E+00	1.87E+00	1.87E+00
4.0E+00	4.28E-02	1.49E-01	2.28E-01	3.89E-01	4.25E-01	5.23E-01	7.13E-01	9.61E-01	1.33E+00	1.35E+00	1.37E+00	1.40E+00	1.40E+00	1.40E+00
5.0E+00	4.20E-02	1.27E-01	2.03E-01	3.58E-01	3.82E-01	4.33E-01	5.29E-01	7.10E-01	9.80E-01	9.85E-01	9.95E-01	1.01E+00	1.01E+00	1.01E+00
6.0E+00	4.10E-02	1.06E-01	1.78E-01	3.24E-01	3.47E-01	3.71E-01	4.16E-01	5.41E-01	7.26E-01	7.30E-01	7.34E-01	7.43E-01	7.43E-01	7.43E-01
7.0E+00	4.00E-02	8.58E-02	1.55E-01	2.89E-01	3.12E-01	3.23E-01	3.46E-01	4.29E-01	5.52E-01	5.55E-01	5.57E-01	5.61E-01	5.61E-01	5.61E-01
8.0E+00	3.88E-02	7.30E-02	1.34E-01	2.56E-01	2.74E-01	2.82E-01	2.97E-01	3.51E-01	4.31E-01	4.34E-01	4.35E-01	4.37E-01	4.37E-01	4.38E-01
1.0E+01	3.60E-02	5.22E-02	1.00E-01	1.96E-01	2.06E-01	2.13E-01	2.25E-01	2.49E-01	2.83E-01	2.84E-01	2.85E-01	2.86E-01	2.86E-01	2.90E-01
1.5E+01	2.80E-02	3.22E-02	5.42E-02	9.42E-02	9.54E-02	9.98E-02	1.08E-01	1.11E-01	1.16E-01	1.16E-01	1.16E-01	1.17E-01	1.17E-01	1.20E-01
2.0E+01	2.20E-02	2.58E-02	3.42E-02	4.98E-02	5.04E-02	5.22E-02	5.56E-02	5.61E-02	5.68E-02	5.69E-02	5.71E-02	5.75E-02	5.75E-02	5.70E-02
3.0E+01	1.06E-02	1.28E-02	1.42E-02	1.65E-02	1.69E-02	1.72E-02	1.77E-02	1.77E-02	1.78E-02	1.78E-02	1.78E-02	1.79E-02	1.79E-02	1.80E-02
4.0E+01	5.00E-03	5.98E-03	6.26E-03	6.70E-03	6.88E-03	6.93E-03	7.02E-03	7.02E-03	7.03E-03	7.05E-03	7.06E-03	7.07E-03	7.07E-03	7.00E-03
6.0E+01	1.18E-03	1.37E-03	1.39E-03	1.42E-03	1.46E-03	1.46E-03	1.47E-03	1.47E-03	1.47E-03	1.47E-03	1.47E-03	1.47E-03	1.47E-03	1.50E-03
1.0E+02	1.26E-04	1.42E-04	1.43E-04	1.44E-04	1.47E-04	1.47E-04	1.47E-04	1.47E-04	1.47E-04	1.47E-04	1.47E-04	1.47E-04	1.47E-04	1.50E-04

E[keV]: 1.61E+01 2.22E+00 2.01E+00 1.94E+00 3.58E-01 2.80E-01 2.69E-01 1.35E-01 1.33E-01 3.80E-02 2.20E-02 2.20E-02 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z													
0.0E+00	4.12E+00	6.49E+00	7.63E+00	8.18E+00	8.54E+00	9.04E+00	9.28E+00	9.69E+00	9.86E+00	9.94E+00	1.01E+01	1.01E+01	1.01E+01
5.0E-02	3.94E+00	6.31E+00	7.45E+00	7.99E+00	8.35E+00	8.85E+00	9.10E+00	9.51E+00	9.67E+00	9.75E+00	9.92E+00	9.96E+00	9.97E+00
1.0E-01	3.48E+00	5.85E+00	6.97E+00	7.52E+00	7.88E+00	8.38E+00	8.62E+00	9.03E+00	9.20E+00	9.28E+00	9.44E+00	9.49E+00	9.48E+00
1.5E-01	2.82E+00	5.19E+00	6.29E+00	6.84E+00	7.20E+00	7.70E+00	7.94E+00	8.35E+00	8.52E+00	8.60E+00	8.76E+00	8.81E+00	8.81E+00
2.0E-01	2.12E+00	4.48E+00	5.56E+00	6.10E+00	6.46E+00	6.96E+00	7.21E+00	7.62E+00	7.78E+00	7.86E+00	8.03E+00	8.07E+00	8.07E+00
3.0E-01	9.72E-01	3.32E+00	4.32E+00	4.86E+00	5.22E+00	5.72E+00	5.97E+00	6.37E+00	6.54E+00	6.62E+00	6.78E+00	6.83E+00	6.83E+00
4.0E-01	3.74E-01	2.68E+00	3.59E+00	4.13E+00	4.49E+00	4.99E+00	5.24E+00	5.63E+00	5.80E+00	5.88E+00	6.04E+00	6.09E+00	6.09E+00
5.0E-01	1.24E-01	2.36E+00	3.15E+00	3.70E+00	4.06E+00	4.56E+00	4.80E+00	5.19E+00	5.36E+00	5.44E+00	5.60E+00	5.65E+00	5.69E+00
6.0E-01	1.21E-01	2.25E+00	2.93E+00	3.48E+00	3.84E+00	4.34E+00	4.58E+00	4.96E+00	5.13E+00	5.21E+00	5.37E+00	5.42E+00	5.42E+00
7.0E-01	1.18E-01	2.11E+00	2.69E+00	3.22E+00	3.58E+00	4.08E+00	4.33E+00	4.70E+00	4.87E+00	4.95E+00	5.11E+00	5.15E+00	5.15E+00
8.0E-01	1.14E-01	1.94E+00	2.40E+00	2.94E+00	3.30E+00	3.80E+00	4.05E+00	4.41E+00	4.58E+00	4.66E+00	4.82E+00	4.86E+00	4.86E+00
1.0E+00	8.20E-02	1.52E+00	1.81E+00	2.35E+00	2.71E+00	3.21E+00	3.45E+00	3.79E+00	3.96E+00	4.04E+00	4.20E+00	4.24E+00	4.24E+00
1.2E+00	4.66E-02	1.10E+00	1.27E+00	1.81E+00	2.17E+00	2.67E+00	2.91E+00	3.22E+00	3.38E+00	3.47E+00	3.62E+00	3.67E+00	3.66E+00
1.4E+00	2.34E-02	7.41E-01	8.46E-01	1.39E+00	1.75E+00	2.23E+00	2.47E+00	2.75E+00	2.92E+00	3.00E+00	3.15E+00	3.20E+00	3.20E+00
1.6E+00	1.13E-02	4.76E-01	5.49E-01	1.09E+00	1.44E+00	1.92E+00	2.15E+00	2.40E+00	2.57E+00	2.65E+00	2.80E+00	2.84E+00	2.85E+00
1.8E+00	6.24E-03	2.96E-01	3.57E-01	8.92E-01	1.25E+00	1.71E+00	1.93E+00	2.15E+00	2.32E+00	2.40E+00	2.55E+00	2.59E+00	2.59E+00
2.0E+00	4.58E-03	1.83E-01	2.42E-01	7.71E-01	1.12E+00	1.56E+00	1.78E+00	1.97E+00	2.14E+00	2.22E+00	2.37E+00	2.41E+00	2.41E+00
2.4E+00	4.22E-03	8.30E-02	1.41E-01	6.52E-01	9.91E-01	1.39E+00	1.59E+00	1.73E+00	1.90E+00	1.98E+00	2.12E+00	2.16E+00	2.16E+00
3.0E+00	3.50E-03	5.81E-02	1.02E-01	5.72E-01	8.84E-01	1.20E+00	1.37E+00	1.45E+00	1.61E+00	1.69E+00	1.82E+00	1.87E+00	1.87E+00
4.0E+00	1.33E-03	4.95E-02	6.56E-02	4.38E-01	6.86E-01	8.76E-01	9.74E-01	1.01E+00	1.17E+00	1.25E+00	1.36E+00	1.40E+00	1.40E+00
5.0E+00	3.90E-04	2.89E-02	3.39E-02	3.04E-01	4.85E-01	5.81E-01	6.32E-01	6.56E-01	8.11E-01	8.87E-01	9.72E-01	1.01E+00	1.01E+00
6.0E+00	2.18E-04	1.35E-02	1.67E-02	2.02E-01	3.27E-01	3.72E-01	3.96E-01	4.19E-01	5.65E-01	6.37E-01	7.02E-01	7.43E-01	7.43E-01
7.0E+00	2.10E-04	5.92E-03	9.02E-03	1.32E-01	2.15E-01	2.38E-01	2.49E-01	2.72E-01	4.06E-01	4.73E-01	5.21E-01	5.61E-01	5.61E-01
8.0E+00	1.93E-04	3.02E-03	5.84E-03	8.62E-02	1.41E-01	1.55E-01	1.63E-01	1.82E-01	3.04E-01	3.64E-01	3.98E-01	4.37E-01	4.38E-01
1.0E+01	1.12E-04	1.95E-03	3.57E-03	3.78E-02	6.10E-02	7.38E-02	8.00E-02	9.02E-02	1.86E-01	2.34E-01	2.50E-01	2.86E-01	2.90E-01
1.5E+01	1.20E-05	1.35E-03	1.53E-03	5.91E-03	8.95E-03	1.73E-02	2.17E-02	2.29E-02	6.29E-02	8.49E-02	8.91E-02	1.17E-01	1.20E-01
2.0E+01	5.40E-06	5.59E-04	6.39E-04	1.36E-03	1.84E-03	5.24E-03	7.06E-03	7.68E-03	2.33E-02	3.17E-02	3.55E-02	5.75E-02	5.70E-02
3.0E+01	3.60E-06	8.56E-05	1.40E-04	1.75E-04	2.01E-04	6.81E-04	9.61E-04	1.38E-03	3.74E-03	5.10E-03	7.30E-03	1.79E-02	1.80E-02
4.0E+01	1.56E-06	1.66E-05	4.05E-05	4.39E-05	4.64E-05	1.34E-04	1.88E-04	3.68E-04	8.08E-04	1.09E-03	2.07E-03	7.07E-03	7.00E-03
6.0E+01	2.80E-07	1.36E-06	5.56E-06	5.66E-06	5.73E-06	1.17E-05	1.59E-05	4.99E-05	8.19E-05	1.04E-04	2.92E-04	1.47E-03	1.50E-03
1.0E+02	2.40E-08	5.60E-08	4.16E-07	4.17E-07	4.18E-07	5.78E-07	7.28E-07	3.53E-06	4.41E-06	5.25E-06	2.14E-05	1.47E-04	1.50E-04

E[keV]: 0.00E+00 2.20E-02 3.80E-02 1.33E-01 1.35E-01 2.69E-01 2.80E-01 3.58E-01 1.94E+00 2.01E+00 2.22E+00 1.61E+01


0
1x10-2
1x10-1
1x100
1x101
1x102
1x103
102
101
100
10-1
10-2
0.0
38Sr
Σi Ji(Q)
Q

Z=39

Compton profiles for the single orbitals and binding energies

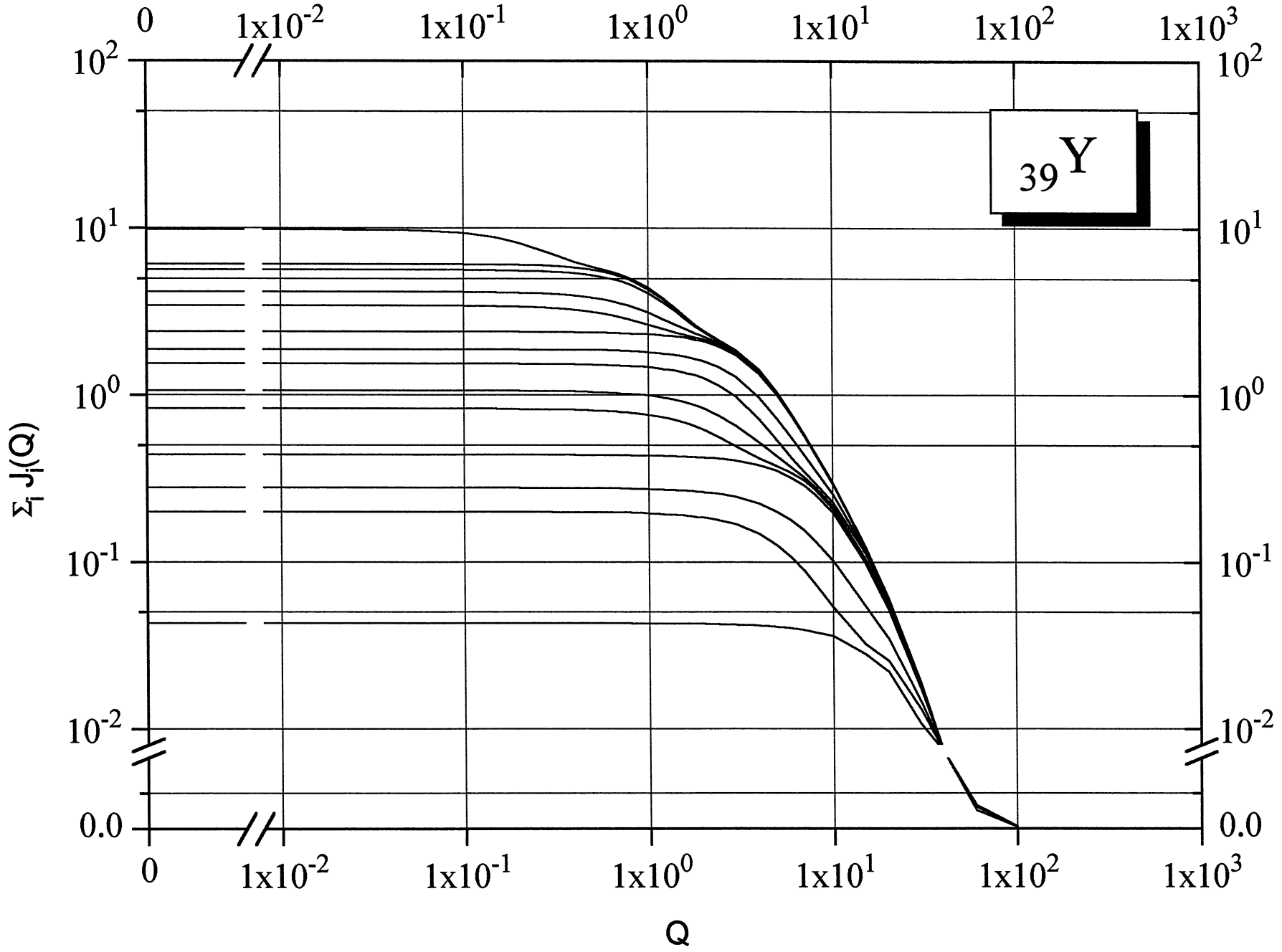
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(1)	4d+(2)	Total
0.0E+00	2.15E-02	7.85E-02	3.94E-02	4.04E-02	1.96E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	5.33E-01	3.61E-01	3.66E-01	4.54E-01	1.90E+00	9.92E+00
5.0E-02	2.15E-02	7.85E-02	3.94E-02	4.04E-02	1.96E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	5.31E-01	3.61E-01	3.66E-01	4.54E-01	1.83E+00	9.78E+00
1.0E-01	2.15E-02	7.85E-02	3.94E-02	4.04E-02	1.96E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	5.26E-01	3.61E-01	3.66E-01	4.54E-01	1.64E+00	9.39E+00
1.5E-01	2.15E-02	7.85E-02	3.94E-02	4.04E-02	1.96E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	5.18E-01	3.61E-01	3.66E-01	4.54E-01	1.37E+00	8.83E+00
2.0E-01	2.15E-02	7.84E-02	3.94E-02	4.04E-02	1.95E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	5.06E-01	3.61E-01	3.66E-01	4.54E-01	1.07E+00	8.20E+00
3.0E-01	2.15E-02	7.83E-02	3.94E-02	4.04E-02	1.93E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	4.75E-01	3.59E-01	3.64E-01	4.50E-01	5.44E-01	7.07E+00
4.0E-01	2.15E-02	7.82E-02	3.94E-02	4.04E-02	1.91E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	4.34E-01	3.54E-01	3.59E-01	4.39E-01	2.31E-01	6.32E+00
5.0E-01	2.15E-02	7.80E-02	3.94E-02	4.04E-02	1.88E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	3.88E-01	3.46E-01	3.51E-01	4.17E-01	9.98E-02	5.88E+00
6.0E-01	2.15E-02	7.78E-02	3.94E-02	4.04E-02	1.84E-01	1.18E-01	1.20E-01	8.56E-02	8.63E-02	3.38E-01	3.33E-01	3.37E-01	3.84E-01	6.20E-02	5.58E+00
7.0E-01	2.15E-02	7.75E-02	3.94E-02	4.04E-02	1.80E-01	1.18E-01	1.20E-01	8.56E-02	8.62E-02	2.88E-01	3.16E-01	3.19E-01	3.44E-01	5.66E-02	5.32E+00
8.0E-01	2.15E-02	7.73E-02	3.94E-02	4.04E-02	1.75E-01	1.18E-01	1.20E-01	8.56E-02	8.62E-02	2.40E-01	2.95E-01	2.97E-01	3.01E-01	5.62E-02	5.03E+00
1.0E+00	2.14E-02	7.66E-02	3.94E-02	4.04E-02	1.65E-01	1.17E-01	1.19E-01	8.56E-02	8.62E-02	1.57E-01	2.44E-01	2.43E-01	2.18E-01	4.60E-02	4.42E+00
1.2E+00	2.14E-02	7.57E-02	3.94E-02	4.04E-02	1.52E-01	1.16E-01	1.18E-01	8.55E-02	8.61E-02	9.79E-02	1.88E-01	1.86E-01	1.51E-01	2.95E-02	3.83E+00
1.4E+00	2.14E-02	7.47E-02	3.94E-02	4.04E-02	1.39E-01	1.15E-01	1.17E-01	8.53E-02	8.59E-02	6.08E-02	1.37E-01	1.34E-01	1.01E-01	1.63E-02	3.33E+00
1.6E+00	2.14E-02	7.36E-02	3.93E-02	4.04E-02	1.26E-01	1.13E-01	1.14E-01	8.50E-02	8.56E-02	4.10E-02	9.43E-02	9.10E-02	6.66E-02	8.36E-03	2.94E+00
1.8E+00	2.13E-02	7.24E-02	3.93E-02	4.03E-02	1.12E-01	1.10E-01	1.11E-01	8.45E-02	8.51E-02	3.24E-02	6.23E-02	5.94E-02	4.32E-02	4.44E-03	2.64E+00
2.0E+00	2.13E-02	7.10E-02	3.93E-02	4.03E-02	9.84E-02	1.06E-01	1.08E-01	8.39E-02	8.44E-02	2.98E-02	4.01E-02	3.78E-02	2.77E-02	2.84E-03	2.43E+00
2.4E+00	2.12E-02	6.80E-02	3.92E-02	4.02E-02	7.38E-02	9.76E-02	9.84E-02	8.17E-02	8.22E-02	2.93E-02	1.73E-02	1.64E-02	1.12E-02	2.26E-03	2.15E+00
3.0E+00	2.11E-02	6.28E-02	3.90E-02	4.00E-02	4.48E-02	8.11E-02	8.09E-02	7.62E-02	7.66E-02	2.42E-02	9.51E-03	9.66E-03	3.26E-03	2.05E-03	1.86E+00
4.0E+00	2.08E-02	5.30E-02	3.83E-02	3.92E-02	1.92E-02	5.14E-02	5.02E-02	6.25E-02	6.26E-02	1.00E-02	8.77E-03	8.86E-03	1.60E-03	9.10E-04	1.42E+00
5.0E+00	2.04E-02	4.28E-02	3.70E-02	3.78E-02	1.22E-02	2.79E-02	2.66E-02	4.70E-02	4.69E-02	3.19E-03	5.85E-03	5.68E-03	1.54E-03	2.76E-04	1.05E+00
6.0E+00	2.00E-02	3.32E-02	3.52E-02	3.58E-02	1.15E-02	1.37E-02	1.28E-02	3.33E-02	3.30E-02	1.72E-03	2.98E-03	2.80E-03	1.28E-03	1.29E-04	7.75E-01
7.0E+00	1.95E-02	2.49E-02	3.29E-02	3.33E-02	1.12E-02	6.78E-03	6.34E-03	2.27E-02	2.24E-02	1.64E-03	1.35E-03	1.24E-03	9.45E-04	1.19E-04	5.87E-01
8.0E+00	1.90E-02	1.80E-02	3.01E-02	3.04E-02	9.74E-03	4.03E-03	3.92E-03	1.52E-02	1.50E-02	1.54E-03	6.36E-04	5.91E-04	6.58E-04	1.13E-04	4.57E-01
1.0E+01	1.80E-02	8.80E-03	2.40E-02	2.40E-02	5.60E-03	3.10E-03	3.20E-03	6.70E-03	6.50E-03	9.60E-04	3.30E-04	3.40E-04	3.00E-04	7.10E-05	3.00E-01
1.5E+01	1.40E-02	2.10E-03	1.10E-02	1.10E-02	2.90E-04	2.30E-03	2.20E-03	9.20E-04	8.90E-04	1.10E-04	2.60E-04	2.60E-04	4.20E-05	8.30E-06	1.20E-01
2.0E+01	1.10E-02	1.80E-03	4.60E-03	4.30E-03	3.10E-04	1.00E-03	9.50E-04	1.60E-04	1.50E-04	4.20E-05	1.20E-04	1.10E-04	7.10E-06	3.10E-06	6.00E-02
3.0E+01	5.40E-03	1.20E-03	7.70E-04	6.70E-04	2.20E-04	1.60E-04	1.40E-04	8.30E-06	7.60E-06	3.10E-05	1.90E-05	1.70E-05	3.80E-07	2.20E-06	1.90E-02
4.0E+01	2.60E-03	5.30E-04	1.60E-04	1.30E-04	9.90E-05	3.30E-05	2.70E-05	8.20E-07	7.30E-07	1.40E-05	3.70E-06	3.10E-06	3.70E-08	9.80E-07	7.60E-03
6.0E+01	6.50E-04	1.10E-04	1.30E-05	9.50E-06	1.90E-05	2.60E-06	1.80E-06	2.60E-08	2.10E-08	2.60E-06	2.90E-07	2.10E-07	1.20E-09	1.90E-07	1.60E-03
1.0E+02	7.00E-05	9.20E-06	5.10E-07	2.70E-07	1.60E-06	9.30E-08	4.90E-08	3.30E-10	2.20E-10	2.20E-07	1.10E-08	5.60E-09	1.50E-11	1.60E-08	1.60E-04
E[keV]:	1.70E+01	2.37E+00	2.15E+00	2.08E+00	3.95E-01	3.13E-01	3.01E-01	1.60E-01	1.58E-01	4.60E-02	2.60E-02	2.60E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(1)	4d+(2)	Total
0.0E+00	4.30E-02	2.00E-01	2.79E-01	4.40E-01	8.32E-01	1.07E+00	1.55E+00	1.89E+00	2.41E+00	3.47E+00	4.20E+00	5.66E+00	6.11E+00	9.91E+00	9.92E+00
5.0E-02	4.30E-02	2.00E-01	2.79E-01	4.40E-01	8.32E-01	1.07E+00	1.55E+00	1.89E+00	2.41E+00	3.47E+00	4.19E+00	5.66E+00	6.11E+00	9.77E+00	9.78E+00
1.0E-01	4.30E-02	2.00E-01	2.79E-01	4.40E-01	8.32E-01	1.07E+00	1.55E+00	1.89E+00	2.41E+00	3.46E+00	4.18E+00	5.65E+00	6.10E+00	9.38E+00	9.39E+00
1.5E-01	4.30E-02	2.00E-01	2.79E-01	4.40E-01	8.32E-01	1.07E+00	1.55E+00	1.89E+00	2.41E+00	3.44E+00	4.17E+00	5.63E+00	6.08E+00	8.82E+00	8.83E+00
2.0E-01	4.30E-02	2.00E-01	2.79E-01	4.40E-01	8.30E-01	1.07E+00	1.55E+00	1.89E+00	2.41E+00	3.42E+00	4.14E+00	5.60E+00	6.06E+00	8.20E+00	8.20E+00
3.0E-01	4.30E-02	2.00E-01	2.78E-01	4.40E-01	8.26E-01	1.06E+00	1.54E+00	1.88E+00	2.40E+00	3.35E+00	4.07E+00	5.53E+00	5.98E+00	7.06E+00	7.07E+00
4.0E-01	4.30E-02	1.99E-01	2.78E-01	4.40E-01	8.22E-01	1.06E+00	1.54E+00	1.88E+00	2.40E+00	3.27E+00	3.97E+00	5.41E+00	5.85E+00	6.31E+00	6.32E+00
5.0E-01	4.30E-02	1.99E-01	2.78E-01	4.39E-01	8.15E-01	1.05E+00	1.53E+00	1.87E+00	2.39E+00	3.17E+00	3.86E+00	5.26E+00	5.68E+00	5.88E+00	5.88E+00
6.0E-01	4.30E-02	1.99E-01	2.77E-01	4.39E-01	8.07E-01	1.04E+00	1.52E+00	1.87E+00	2.38E+00	3.06E+00	3.73E+00	5.07E+00	5.46E+00	5.58E+00	5.58E+00
7.0E-01	4.30E-02	1.98E-01	2.77E-01	4.38E-01	7.98E-01	1.03E+00	1.51E+00	1.86E+00	2.37E+00	2.95E+00	3.58E+00	4.86E+00	5.20E+00	5.32E+00	5.32E+00
8.0E-01	4.30E-02	1.98E-01	2.76E-01	4.38E-01	7.88E-01	1.02E+00	1.50E+00	1.85E+00	2.36E+00	2.84E+00	3.43E+00	4.62E+00	4.92E+00	5.03E+00	5.03E+00
1.0E+00	4.28E-02	1.96E-01	2.75E-01	4.36E-01	7.66E-01	1.00E+00	1.48E+00	1.82E+00	2.34E+00	2.65E+00	3.14E+00	4.11E+00	4.33E+00	4.42E+00	4.42E+00
1.2E+00	4.28E-02	1.94E-01	2.73E-01	4.35E-01	7.39E-01	9.71E-01	1.44E+00	1.78E+00	2.30E+00	2.50E+00	2.87E+00	3.62E+00	3.77E+00	3.83E+00	3.83E+00
1.4E+00	4.28E-02	1.92E-01	2.71E-01	4.33E-01	7.11E-01	9.41E-01	1.41E+00	1.75E+00	2.27E+00	2.39E+00	2.66E+00	3.20E+00	3.30E+00	3.33E+00	3.33E+00
1.6E+00	4.28E-02	1.90E-01	2.69E-01	4.30E-01	6.82E-01	9.08E-01	1.36E+00	1.70E+00	2.22E+00	2.30E+00	2.49E+00	2.85E+00	2.92E+00	2.94E+00	2.94E+00
1.8E+00	4.26E-02	1.87E-01	2.66E-01	4.27E-01	6.51E-01	8.71E-01	1.32E+00	1.65E+00	2.16E+00	2.23E+00	2.35E+00	2.59E+00	2.63E+00	2.64E+00	2.64E+00
2.0E+00	4.26E-02	1.85E-01	2.63E-01	4.24E-01	6.21E-01	8.33E-01	1.27E+00	1.60E+00	2.11E+00	2.17E+00	2.25E+00	2.40E+00	2.43E+00	2.43E+00	2.43E+00
2.4E+00	4.24E-02	1.78E-01	2.57E-01	4.18E-01	5.65E-01	7.60E-01	1.15E+00	1.48E+00	1.97E+00	2.03E+00	2.07E+00	2.13E+00	2.14E+00	2.15E+00	2.15E+00
3.0E+00	4.22E-02	1.68E-01	2.46E-01	4.06E-01	4.95E-01	6.58E-01	9.81E-01	1.29E+00	1.75E+00	1.79E+00	1.81E+00	1.85E+00	1.86E+00	1.86E+00	1.86E+00
4.0E+00	4.16E-02	1.48E-01	2.24E-01	3.81E-01	4.19E-01	5.22E-01	7.23E-01	9.73E-01	1.35E+00	1.37E+00	1.39E+00	1.42E+00	1.42E+00	1.43E+00	1.42E+00
5.0E+00	4.08E-02	1.26E-01	2.00E-01	3.52E-01	3.76E-01	4.32E-01	5.38E-01	7.26E-01	1.01E+00	1.01E+00	1.03E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00
6.0E+00	4.00E-02	1.06E-01	1.77E-01	3.20E-01	3.43E-01	3.70E-01	4.22E-01	5.55E-01	7.53E-01	7.56E-01	7.62E-01	7.73E-01	7.75E-01	7.75E-01	7.75E-01
7.0E+00	3.90E-02	8.88E-02	1.55E-01	2.88E-01	3.10E-01	3.24E-01	3.49E-01	4.40E-01	5.74E-01	5.78E-01	5.80E-01	5.85E-01	5.86E-01	5.86E-01	5.87E-01
8.0E+00	3.80E-02	7.40E-02	1.34E-01	2.55E-01	2.83E-01	2.99E-01	3.60E-01	4.50E-01	4.53E-01	4.54E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01
1.0E+01	3.60E-02	5.36E-02	1.02E-01	1.98E-01	2.09E-01	2.15E-01	2.28E-01	2.55E-01	2.94E-01	2.96E-01	2.96E-01	2.98E-01	2.98E-01	2.98E-01	3.00E-01
1.5E+01	2.80E-02	3.22E-02	5.42E-02	9.82E-02	9.96E-02	1.04E-01	1.13E-01	1.17E-01	1.22E-01	1.22E-01	1.23E-01	1.24E-01	1.24E-01	1.24E-01	1.20E-01
2.0E+01	2.20E-02	2.56E-02	3.48E-02	5.20E-02	5.26E-02	5.46E-02	5.84E-02	5.91E-02	6.00E-02	6.00E-02	6.03E-02	6.07E-02	6.07E-02	6.07E-02	6.00E-02
3.0E+01	1.08E-02	1.32E-02	1.47E-02	1.74E-02	1.79E-02	1.82E-02	1.87E-02	1.88E-02	1.88E-02	1.89E-02	1.89E-02	1.90E-02	1.90E-02	1.90E-02	1.90E-02
4.0E+01	5.20E-03	6.26E-03	6.58E-03	7.10E-03	7.30E-03	7.36E-03	7.47E-03	7.48E-03	7.48E-03	7.51E-03	7.52E-03	7.53E-03	7.53E-03	7.53E-03	7.60E-03
6.0E+01	1.30E-03	1.52E-03	1.55E-03	1.58E-03	1.62E-03	1.63E-03	1.63E-03	1.63E-03	1.63E-03	1.64E-03	1.64E-03	1.64E-03	1.64E-03	1.64E-03	1.60E-03
1.0E+02	1.40E-04	1.58E-04	1.59E-04	1.61E-04	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.65E-04	1.65E-04	1.65E-04	1.65E-04	1.60E-04
E[keV]:	1.70E+01	2.37E+00	2.15E+00	2.08E+00	3.95E-01	3.13E-01	3.01E-01	1.60E-01	1.58E-01	4.60E-02	2.60E-02	2.60E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z														
0.0E+00	4.25E+00	6.44E+00	7.51E+00	8.02E+00	8.37E+00	8.85E+00	9.08E+00	9.47E+00	9.64E+00	9.71E+00	9.87E+00	9.91E+00	9.92E+00	
5.0E-02	4.11E+00	6.30E+00	7.36E+00	7.88E+00	8.22E+00	8.70E+00	8.94E+00	9.33E+00	9.49E+00	9.57E+00	9.73E+00	9.77E+00	9.78E+00	
1.0E-01	3.73E+00	5.92E+00	6.97E+00	7.49E+00	7.83E+00	8.31E+00	8.55E+00	8.94E+00	9.10E+00	9.18E+00	9.34E+00	9.38E+00	9.39E+00	
1.5E-01	3.19E+00	5.38E+00	6.42E+00	6.93E+00	7.28E+00	7.76E+00	7.99E+00	8.38E+00	8.55E+00	8.62E+00	8.78E+00	8.82E+00	8.83E+00	
2.0E-01	2.59E+00	4.78E+00	5.79E+00	6.31E+00	6.65E+00	7.13E+00	7.37E+00	7.76E+00	7.92E+00	8.00E+00	8.16E+00	8.20E+00	8.20E+00	
3.0E-01	1.54E+00	3.71E+00	4.66E+00	5.18E+00	5.52E+00	6.00E+00	6.24E+00	6.62E+00	6.79E+00	6.86E+00	7.02E+00	7.06E+00	7.07E+00	
4.0E-01	9.01E-01	3.05E+00	3.91E+00	4.43E+00	4.77E+00	5.25E+00	5.49E+00	5.87E+00	6.03E+00	6.11E+00	6.27E+00	6.31E+00	6.32E+00	
5.0E-01	6.17E-01	2.71E+00	3.49E+00	4.01E+00	4.35E+00	4.83E+00	5.06E+00	5.44E+00	5.60E+00	5.68E+00	5.84E+00	5.88E+00	5.88E+00	
6.0E-01	5.08E-01	2.52E+00	3.20E+00	3.72E+00	4.06E+00	4.54E+00	4.77E+00	5.14E+00	5.30E+00	5.38E+00	5.54E+00	5.58E+00	5.58E+00	
7.0E-01	4.57E-01	2.37E+00	2.94E+00	3.46E+00	3.80E+00	4.28E+00	4.52E+00	4.89E+00	5.04E+00	5.12E+00	5.27E+00	5.32E+00	5.32E+00	
8.0E-01	4.13E-01	2.19E+00	2.67E+00	3.19E+00	3.53E+00	4.01E+00	4.25E+00	4.60E+00	4.76E+00	4.84E+00	4.99E+00	5.04E+00	5.03E+00	
1.0E+00	3.10E-01	1.77E+00	2.08E+00	2.60E+00	2.94E+00	3.42E+00	3.65E+00	3.98E+00	4.15E+00	4.22E+00	4.38E+00	4.42E+00	4.42E+00	
1.2E+00	2.10E-01	1.33E+00	1.53E+00	2.04E+00	2.38E+00	2.86E+00	3.09E+00	3.39E+00	3.55E+00	3.63E+00	3.78E+00	3.83E+00	3.83E+00	
1.4E+00	1.34E-01	9.44E-01	1.07E+00	1.58E+00	1.92E+00	2.39E+00	2.62E+00	2.90E+00	3.06E+00	3.14E+00	3.29E+00	3.33E+00	3.33E+00	
1.6E+00	8.33E-02	6.36E-01	7.18E-01	1.23E+00	1.57E+00	2.03E+00	2.25E+00	2.51E+00	2.67E+00	2.75E+00	2.89E+00	2.94E+00	2.94E+00	
1.8E+00	5.21E-02	4.14E-01	4.79E-01	9.90E-01	1.33E+00	1.77E+00	1.99E+00	2.22E+00	2.38E+00	2.46E+00	2.60E+00	2.64E+00	2.64E+00	
2.0E+00	3.34E-02	2.65E-01	3.24E-01	8.31E-01	1.17E+00	1.60E+00	1.81E+00	2.01E+00	2.17E+00	2.25E+00	2.39E+00	2.43E+00	2.43E+00	
2.4E+00	1.57E-02	1.16E-01	1.75E-01	6.68E-01	9.95E-01	1.39E+00	1.58E+00	1.73E+00	1.89E+00	1.97E+00	2.11E+00	2.15E+00	2.15E+00	
3.0E+00	7.36E-03	6.50E-02	1.13E-01	5.73E-01	8.78E-01	1.20E+00	1.36E+00	1.45E+00	1.61E+00	1.69E+00	1.82E+00	1.86E+00	1.86E+00	
4.0E+00	3.42E-03	5.64E-02	7.64E-02	4.52E-01	7.02E-01	9.03E-01	1.01E+00	1.04E+00	1.20E+00	1.28E+00	1.38E+00	1.43E+00	1.42E+00	
5.0E+00	2.09E-03	3.65E-02	4.29E-02	3.24E-01	5.12E-01	6.18E-01	6.74E-01	6.98E-01	8.49E-01	9.23E-01	1.01E+00	1.05E+00	1.05E+00	
6.0E+00	1.54E-03	1.87E-02	2.21E-02	2.20E-01	3.53E-01	4.05E-01	4.32E-01	4.55E-01	5.98E-01	6.69E-01	7.35E-01	7.75E-01	7.75E-01	
7.0E+00	1.18E-03	8.84E-03	1.21E-02	1.47E-01	2.37E-01	2.63E-01	2.76E-01	2.99E-01	4.32E-01	4.98E-01	5.47E-01	5.86E-01	5.87E-01	
8.0E+00	8.84E-04	4.52E-03	7.60E-03	9.76E-02	1.58E-01	1.74E-01	1.82E-01	2.02E-01	3.23E-01	3.83E-01	4.19E-01	4.57E-01	4.57E-01	
1.0E+01	4.42E-04	2.46E-03	4.38E-03	4.34E-02	7.02E-02	8.30E-02	8.92E-02	1.00E-01	1.96E-01	2.44E-01	2.62E-01	2.98E-01	3.00E-01	
1.5E+01	5.86E-05	1.62E-03	1.84E-03	7.18E-03	1.09E-02	1.97E-02	2.43E-02	2.56E-02	6.96E-02	9.16E-02	9.58E-02	1.24E-01	1.20E-01	
2.0E+01	1.33E-05	6.93E-04	7.77E-04	1.68E-03	2.32E-03	6.12E-03	8.12E-03	8.74E-03	2.59E-02	3.51E-02	3.87E-02	6.07E-02	6.00E-02	
3.0E+01	4.78E-06	1.11E-04	1.73E-04	2.18E-04	2.52E-04	8.12E-04	1.13E-03	1.57E-03	4.25E-03	5.79E-03	8.19E-03	1.90E-02	1.90E-02	
4.0E+01	2.00E-06	2.18E-05	4.98E-05	5.42E-05	5.75E-05	1.65E-04	2.31E-04	4.29E-04	9.49E-04	1.27E-03	2.33E-03	7.53E-03	7.60E-03	
6.0E+01	3.81E-07	1.80E-06	7.00E-06	7.13E-06	7.23E-06	1.44E-05	1.96E-05	5.76E-05	9.56E-05	1.22E-04	3.42E-04	1.64E-03	1.60E-03	
1.0E+02	3.20E-08	7.64E-08	5.16E-07	5.18E-07	5.19E-07	7.15E-07	9.01E-07	4.10E-06	5.18E-06	6.20E-06	2.46E-05	1.65E-04	1.60E-04	
E[keV]:	0.00E+00	2.60E-02	4.60E-02	1.58E-01	1.60E-01	3.01E-01	3.13E-01	3.95E-01	2.08E+00	2.15E+00	2.37E+00	1.70E+01		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10-2
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39Y
Σi Ji(Q)
Q

Z=40

Compton profiles for the single orbitals and binding energies

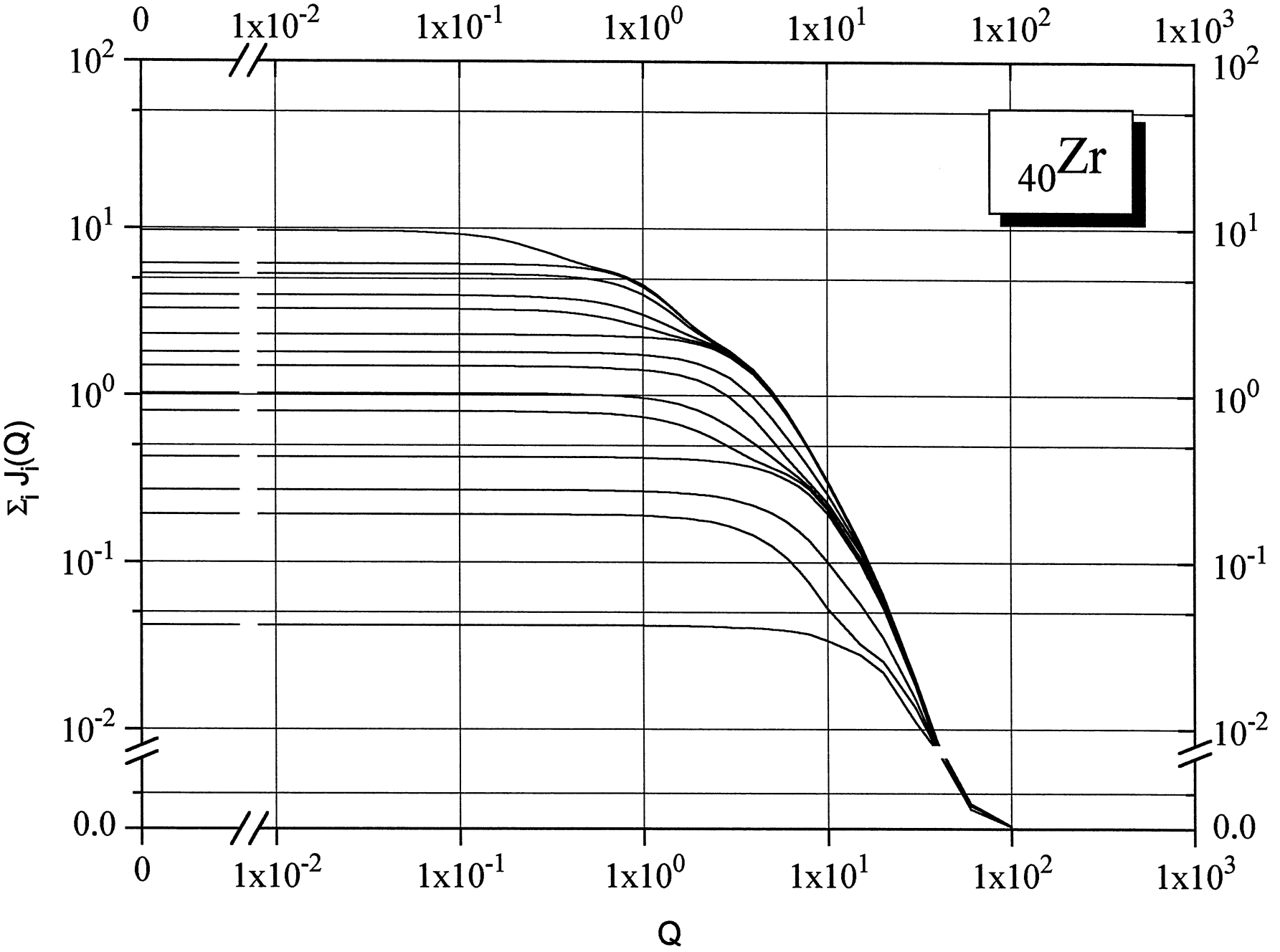
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(2)	4d+(2)	Total
0.0E+00	2.09E-02	7.62E-02	3.82E-02	3.92E-02	1.89E-01	1.14E-01	1.16E-01	8.16E-02	8.23E-02	5.01E-01	3.39E-01	3.42E-01	3.93E-01	1.80E+00	9.76E+00
5.0E-02	2.09E-02	7.62E-02	3.82E-02	3.92E-02	1.89E-01	1.14E-01	1.16E-01	8.16E-02	8.23E-02	5.00E-01	3.39E-01	3.42E-01	3.93E-01	1.74E+00	9.64E+00
1.0E-01	2.09E-02	7.62E-02	3.82E-02	3.92E-02	1.89E-01	1.14E-01	1.16E-01	8.16E-02	8.23E-02	4.96E-01	3.39E-01	3.42E-01	3.93E-01	1.58E+00	9.30E+00
1.5E-01	2.09E-02	7.62E-02	3.82E-02	3.92E-02	1.88E-01	1.14E-01	1.16E-01	8.16E-02	8.23E-02	4.88E-01	3.39E-01	3.42E-01	3.93E-01	1.34E+00	8.81E+00
2.0E-01	2.09E-02	7.61E-02	3.82E-02	3.92E-02	1.88E-01	1.14E-01	1.16E-01	8.16E-02	8.23E-02	4.79E-01	3.38E-01	3.42E-01	3.93E-01	1.07E+00	8.24E+00
3.0E-01	2.09E-02	7.61E-02	3.82E-02	3.92E-02	1.86E-01	1.14E-01	1.16E-01	8.16E-02	8.23E-02	4.52E-01	3.37E-01	3.41E-01	3.92E-01	5.79E-01	7.19E+00
4.0E-01	2.09E-02	7.59E-02	3.82E-02	3.92E-02	1.84E-01	1.14E-01	1.16E-01	8.16E-02	8.23E-02	4.17E-01	3.33E-01	3.37E-01	3.87E-01	2.64E-01	6.46E+00
5.0E-01	2.09E-02	7.58E-02	3.82E-02	3.92E-02	1.81E-01	1.13E-01	1.16E-01	8.16E-02	8.23E-02	3.77E-01	3.27E-01	3.31E-01	3.75E-01	1.15E-01	6.01E+00
6.0E-01	2.09E-02	7.56E-02	3.82E-02	3.92E-02	1.78E-01	1.13E-01	1.16E-01	8.16E-02	8.23E-02	3.33E-01	3.17E-01	3.21E-01	3.57E-01	6.45E-02	5.72E+00
7.0E-01	2.09E-02	7.53E-02	3.82E-02	3.92E-02	1.74E-01	1.13E-01	1.16E-01	8.16E-02	8.23E-02	2.88E-01	3.04E-01	3.06E-01	3.32E-01	5.37E-02	5.47E+00
8.0E-01	2.09E-02	7.51E-02	3.82E-02	3.92E-02	1.70E-01	1.13E-01	1.15E-01	8.16E-02	8.23E-02	2.45E-01	2.87E-01	2.89E-01	3.03E-01	5.31E-02	5.20E+00
1.0E+00	2.09E-02	7.44E-02	3.82E-02	3.92E-02	1.60E-01	1.13E-01	1.15E-01	8.16E-02	8.22E-02	1.67E-01	2.44E-01	2.44E-01	2.38E-01	4.71E-02	4.62E+00
1.2E+00	2.08E-02	7.37E-02	3.82E-02	3.92E-02	1.49E-01	1.12E-01	1.14E-01	8.15E-02	8.22E-02	1.08E-01	1.95E-01	1.94E-01	1.78E-01	3.31E-02	4.02E+00
1.4E+00	2.08E-02	7.28E-02	3.82E-02	3.92E-02	1.37E-01	1.11E-01	1.13E-01	8.14E-02	8.20E-02	6.86E-02	1.47E-01	1.45E-01	1.28E-01	1.98E-02	3.49E+00
1.6E+00	2.08E-02	7.17E-02	3.82E-02	3.92E-02	1.25E-01	1.09E-01	1.11E-01	8.12E-02	8.18E-02	4.58E-02	1.06E-01	1.03E-01	8.94E-02	1.08E-02	3.06E+00
1.8E+00	2.08E-02	7.06E-02	3.82E-02	3.92E-02	1.12E-01	1.06E-01	1.08E-01	8.08E-02	8.15E-02	3.45E-02	7.31E-02	7.05E-02	6.13E-02	5.81E-03	2.73E+00
2.0E+00	2.07E-02	6.93E-02	3.81E-02	3.92E-02	9.93E-02	1.04E-01	1.05E-01	8.03E-02	8.09E-02	3.02E-02	4.88E-02	4.66E-02	4.14E-02	3.45E-03	2.48E+00
2.4E+00	2.07E-02	6.66E-02	3.81E-02	3.91E-02	7.58E-02	9.60E-02	9.69E-02	7.86E-02	7.92E-02	2.91E-02	2.15E-02	2.04E-02	1.83E-02	2.29E-03	2.15E+00
3.0E+00	2.05E-02	6.17E-02	3.79E-02	3.89E-02	4.74E-02	8.13E-02	8.12E-02	7.43E-02	7.47E-02	2.58E-02	1.02E-02	1.03E-02	5.48E-03	2.17E-03	1.85E+00
4.0E+00	2.03E-02	5.26E-02	3.72E-02	3.82E-02	2.07E-02	5.36E-02	5.24E-02	6.26E-02	6.27E-02	1.21E-02	9.17E-03	9.38E-03	1.97E-03	1.12E-03	1.44E+00
5.0E+00	1.99E-02	4.30E-02	3.61E-02	3.70E-02	1.24E-02	3.04E-02	2.90E-02	4.84E-02	4.82E-02	4.01E-03	6.69E-03	6.59E-03	1.88E-03	3.63E-04	1.08E+00
6.0E+00	1.95E-02	3.38E-02	3.45E-02	3.52E-02	1.13E-02	1.55E-02	1.45E-02	3.52E-02	3.49E-02	1.90E-03	3.67E-03	3.49E-03	1.66E-03	1.49E-04	8.07E-01
7.0E+00	1.91E-02	2.57E-02	3.24E-02	3.29E-02	1.11E-02	7.75E-03	7.21E-03	2.46E-02	2.43E-02	1.69E-03	1.73E-03	1.60E-03	1.28E-03	1.24E-04	6.13E-01
8.0E+00	1.86E-02	1.89E-02	2.99E-02	3.02E-02	9.98E-03	4.42E-03	4.23E-03	1.68E-02	1.65E-02	1.64E-03	8.14E-04	7.53E-04	9.20E-04	1.22E-04	4.78E-01
1.0E+01	1.70E-02	9.50E-03	2.40E-02	2.40E-02	6.10E-03	3.00E-03	3.10E-03	7.60E-03	7.40E-03	1.10E-03	3.60E-04	3.70E-04	4.40E-04	8.30E-05	3.10E-01
1.5E+01	1.40E-02	2.20E-03	1.20E-02	1.10E-02	8.10E-04	2.40E-03	2.40E-03	1.10E-03	1.10E-03	1.40E-04	2.90E-04	2.90E-04	6.50E-05	1.10E-05	1.30E-01
2.0E+01	1.10E-02	1.80E-03	5.00E-03	4.60E-03	3.10E-04	1.10E-03	1.10E-03	1.90E-04	1.80E-04	4.50E-05	1.40E-04	1.30E-04	1.10E-05	3.30E-06	6.30E-02
3.0E+01	5.60E-03	1.20E-03	8.70E-04	7.60E-04	2.30E-04	1.90E-04	1.70E-04	1.10E-05	9.70E-06	3.40E-05	2.30E-05	2.10E-05	6.20E-07	2.50E-06	2.00E-02
4.0E+01	2.80E-03	5.60E-04	1.90E-04	1.50E-04	1.10E-04	3.90E-05	3.10E-05	1.10E-06	9.40E-07	1.60E-05	4.70E-06	3.90E-06	6.10E-08	1.20E-06	8.10E-03
6.0E+01	7.00E-04	1.20E-04	1.60E-05	1.10E-05	2.20E-05	3.10E-06	2.20E-06	3.40E-08	2.80E-08	3.10E-06	3.80E-07	2.70E-07	2.00E-09	2.30E-07	1.80E-03
1.0E+02	7.80E-05	1.00E-05	6.10E-07	3.20E-07	1.90E-06	1.20E-07	6.00E-08	4.40E-10	2.90E-10	2.70E-07	1.40E-08	7.30E-09	2.60E-11	2.00E-08	1.80E-04
E[keV]:	1.80E+01	2.53E+00	2.31E+00	2.22E+00	4.33E-01	3.47E-01	3.33E-01	1.85E-01	1.82E-01	5.40E-02	3.10E-02	3.10E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(2)	4d+(2)	Total
0.0E+00	4.18E-02	1.94E-01	2.71E-01	4.27E-01	8.05E-01	1.03E+00	1.50E+00	1.82E+00	2.32E+00	3.32E+00	4.00E+00	5.37E+00	6.15E+00	9.75E+00	9.76E+00
5.0E-02	4.18E-02	1.94E-01	2.71E-01	4.27E-01	8.05E-01	1.03E+00	1.50E+00	1.82E+00	2.32E+00	3.32E+00	4.00E+00	5.36E+00	6.15E+00	9.63E+00	9.64E+00
1.0E-01	4.18E-02	1.94E-01	2.71E-01	4.27E-01	8.05E-01	1.03E+00	1.50E+00	1.82E+00	2.32E+00	3.31E+00	3.99E+00	5.36E+00	6.14E+00	9.30E+00	9.30E+00
1.5E-01	4.18E-02	1.94E-01	2.71E-01	4.27E-01	8.03E-01	1.03E+00	1.50E+00	1.82E+00	2.32E+00	3.29E+00	3.97E+00	5.34E+00	6.12E+00	8.80E+00	8.81E+00
2.0E-01	4.18E-02	1.94E-01	2.70E-01	4.27E-01	8.03E-01	1.03E+00	1.50E+00	1.82E+00	2.32E+00	3.27E+00	3.95E+00	5.32E+00	6.10E+00	8.24E+00	8.24E+00
3.0E-01	4.18E-02	1.94E-01	2.70E-01	4.27E-01	7.99E-01	1.03E+00	1.49E+00	1.82E+00	2.31E+00	3.22E+00	3.89E+00	5.25E+00	6.04E+00	7.20E+00	7.19E+00
4.0E-01	4.18E-02	1.94E-01	2.70E-01	4.27E-01	7.95E-01	1.02E+00	1.49E+00	1.81E+00	2.31E+00	3.14E+00	3.81E+00	5.15E+00	5.93E+00	6.46E+00	6.46E+00
5.0E-01	4.18E-02	1.93E-01	2.70E-01	4.27E-01	7.89E-01	1.01E+00	1.48E+00	1.81E+00	2.30E+00	3.71E+00	5.03E+00	5.78E+00	6.01E+00	6.01E+00	
6.0E-01	4.18E-02	1.93E-01	2.69E-01	4.26E-01	7.82E-01	1.01E+00	1.47E+00	1.80E+00	2.29E+00	2.96E+00	3.59E+00	4.88E+00	5.59E+00	5.72E+00	5.72E+00
7.0E-01	4.18E-02	1.92E-01	2.69E-01	4.26E-01	7.74E-01	1.00E+00	1.46E+00	1.79E+00	2.28E+00	2.86E+00	3.47E+00	4.69E+00	5.36E+00	5.46E+00	5.47E+00
8.0E-01	4.18E-02	1.92E-01	2.68E-01	4.25E-01	7.65E-01	9.91E-01	1.45E+00	1.78E+00	2.27E+00	2.76E+00	3.34E+00	4.49E+00	5.10E+00	5.20E+00	5.20E+00
1.0E+00	4.18E-02	1.91E-01	2.67E-01	4.24E-01	7.44E-01	9.70E-01	1.43E+00	1.76E+00	2.25E+00	2.58E+00	3.07E+00	4.05E+00	4.52E+00	4.62E+00	4.62E+00
1.2E+00	4.16E-02	1.89E-01	2.65E-01	4.22E-01	7.20E-01	9.44E-01	1.40E+00	1.73E+00	2.22E+00	2.44E+00	2.83E+00	3.60E+00	3.96E+00	4.02E+00	4.02E+00
1.4E+00	4.16E-02	1.87E-01	2.64E-01	4.20E-01	6.94E-01	9.16E-01	1.37E+00	1.69E+00	2.19E+00	2.32E+00	2.62E+00	3.20E+00	3.45E+00	3.49E+00	3.49E+00
1.6E+00	4.16E-02	1.85E-01	2.61E-01	4.18E-01	6.68E-01	8.86E-01	1.33E+00	1.66E+00	2.15E+00	2.24E+00	2.45E+00	2.86E+00	3.04E+00	3.06E+00	3.06E+00
1.8E+00	4.16E-02	1.83E-01	2.59E-01	4.16E-01	6.40E-01	8.52E-01	1.28E+00	1.61E+00	2.10E+00	2.17E+00	2.31E+00	2.59E+00	2.72E+00	2.73E+00	2.73E+00
2.0E+00	4.14E-02	1.80E-01	2.56E-01	4.13E-01	6.12E-01	8.20E-01	1.24E+00	1.56E+00	2.05E+00	2.11E+00	2.20E+00	2.39E+00	2.47E+00	2.48E+00	2.48E+00
2.4E+00	4.14E-02	1.75E-01	2.51E-01	4.07E-01	5.59E-01	7.51E-01	1.14E+00	1.45E+00	1.93E+00	1.99E+00	2.03E+00	2.11E+00	2.15E+00	2.15E+00	2.15E+00
3.0E+00	4.10E-02	1.64E-01	2.40E-01	3.96E-01	4.91E-01	6.53E-01	9.78E-01	1.28E+00	1.72E+00	1.78E+00	1.80E+00	1.84E+00	1.85E+00	1.85E+00	1.85E+00
4.0E+00	4.06E-02	1.46E-01	2.20E-01	3.73E-01	4.14E-01	5.22E-01	7.31E-01	9.82E-01	1.36E+00	1.38E+00	1.40E+00	1.44E+00	1.44E+00	1.44E+00	1.44E+00
5.0E+00	3.98E-02	1.26E-01	1.98E-01	3.46E-01	3.71E-01	4.32E-01	5.48E-01	7.41E-01	1.03E+00	1.04E+00	1.05E+00	1.08E+00	1.08E+00	1.08E+00	1.08E+00
6.0E+00	3.90E-02	1.07E-01	1.76E-01	3.16E-01	3.39E-01	3.70E-01	4.28E-01	5.69E-01	7.78E-01	7.82E-01	7.89E-01	8.03E-01	8.07E-01	8.07E-01	8.07E-01
7.0E+00	3.82E-02	8.96E-02	1.54E-01	2.86E-01	3.08E-01	3.24E-01	3.53E-01	4.51E-01	5.97E-01	6.00E-01	6.04E-01	6.10E-01	6.13E-01	6.13E-01	6.13E-01
8.0E+00	3.72E-02	7.50E-02	1.35E-01	2.56E-01	2.76E-01	2.84E-01	3.01E-01	3.69E-01	4.60E-01	4.71E-01	4.72E-01	4.75E-01	4.77E-01	4.78E-01	4.78E-01
1.0E+01	3.40E-02	5.30E-02	1.01E-01	1.97E-01	2.09E-01	2.15E-01	2.28E-01	2.58E-01	3.02E-01	3.05E-01	3.05E-01	3.07E-01	3.08E-01	3.08E-01	3.10E-01
1.5E+01	2.80E-02	3.24E-02	5.64E-02	1.00E-01	1.02E-01	1.07E-01	1.16E-01	1.21E-01	1.27E-01	1.28E-01	1.28E-01	1.29E-01	1.30E-01	1.30E-01	1.30E-01
2.0E+01	2.20E-02	2.56E-02	3.56E-02	5.40E-02	5.46E-02	5.66E-02	6.12E-02	6.20E-02	6.31E-02	6.32E-02	6.34E-02	6.40E-02	6.40E-02	6.40E-02	6.30E-02
3.0E+01	1.12E-02	1.36E-02	1.53E-02	1.84E-02	1.88E-02	1.92E-02	1.99E-02	1.99E-02	2.00E-02	2.01E-02	2.01E-02	2.02E-02	2.02E-02	2.02E-02	2.00E-02
4.0E+01	5.60E-03	6.72E-03	7.10E-03	7.70E-03	7.92E-03	8.00E-03	8.12E-03	8.13E-03	8.13E-03	8.16E-03	8.17E-03	8.19E-03	8.19E-03	8.19E-03	8.10E-03
6.0E+01	1.40E-03	1.64E-03	1.67E-03	1.72E-03	1.76E-03	1.77E-03	1.77E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.80E-03
1.0E+02	1.56E-04	1.76E-04	1.77E-04	1.78E-04	1.82E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.80E-04
E[keV]:	1.80E+01	2.53E+00	2.31E+00	2.22E+00	4.33E-01	3.47E-01	3.33E-01	1.85E-01	1.82E-01	5.40E-02	3.10E-02	3.10E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z														
0.0E+00	4.39E+00	6.43E+00	7.43E+00	7.93E+00	8.25E+00	8.72E+00	8.95E+00	9.32E+00	9.48E+00	9.56E+00	9.71E+00	9.75E+00	9.76E+00	
5.0E-02	4.27E+00	6.31E+00	7.31E+00	7.81E+00	8.13E+00	8.60E+00	8.82E+00	9.20E+00	9.36E+00	9.44E+00	9.59E+00	9.63E+00	9.64E+00	
1.0E-01	3.95E+00	5.99E+00	6.98E+00	7.48E+00	7.80E+00	8.27E+00	8.50E+00	8.87E+00	9.03E+00	9.11E+00	9.26E+00	9.30E+00	9.30E+00	
1.5E-01	3.47E+00	5.51E+00	6.49E+00	6.98E+00	7.31E+00	7.77E+00	8.00E+00	8.38E+00	8.53E+00	8.61E+00	8.76E+00	8.80E+00	8.81E+00	
2.0E-01	2.93E+00	4.97E+00	5.92E+00	6.42E+00	6.75E+00	7.21E+00	7.44E+00	7.82E+00	7.97E+00	8.05E+00	8.20E+00	8.24E+00	8.24E+00	
3.0E-01	1.94E+00	3.98E+00	4.88E+00	5.38E+00	5.70E+00	6.17E+00	6.40E+00	6.77E+00	6.93E+00	7.00E+00	7.15E+00	7.20E+00	7.19E+00	
4.0E-01	1.30E+00	3.32E+00	4.15E+00	4.64E+00	4.97E+00	5.43E+00	5.66E+00	6.03E+00	6.19E+00	6.26E+00	6.42E+00	6.46E+00	6.46E+00	
5.0E-01	9.80E-01	2.96E+00	3.71E+00	4.21E+00	4.53E+00	5.00E+00	5.22E+00	5.58E+00	5.74E+00	5.82E+00	5.97E+00	6.01E+00	6.01E+00	
6.0E-01	8.43E-01	2.76E+00	3.43E+00	3.92E+00	4.25E+00	4.71E+00	4.94E+00	5.29E+00	5.45E+00	5.53E+00	5.68E+00	5.72E+00	5.72E+00	
7.0E-01	7.71E-01	2.60E+00	3.18E+00	3.67E+00	4.00E+00	4.46E+00	4.69E+00	5.04E+00	5.19E+00	5.27E+00	5.42E+00	5.46E+00	5.47E+00	
8.0E-01	7.12E-01	2.44E+00	2.93E+00	3.43E+00	3.75E+00	4.21E+00	4.44E+00	4.78E+00	4.94E+00	5.01E+00	5.16E+00	5.20E+00	5.20E+00	
1.0E+00	5.70E-01	2.03E+00	2.37E+00	2.86E+00	3.19E+00	3.65E+00	3.87E+00	4.19E+00	4.35E+00	4.43E+00	4.58E+00	4.62E+00	4.62E+00	
1.2E+00	4.22E-01	1.59E+00	1.80E+00	2.30E+00	2.62E+00	3.08E+00	3.30E+00	3.60E+00	3.76E+00	3.83E+00	3.98E+00	4.02E+00	4.02E+00	
1.4E+00	2.96E-01	1.17E+00	1.31E+00	1.80E+00	2.12E+00	2.58E+00	2.80E+00	3.07E+00	3.23E+00	3.31E+00	3.45E+00	3.49E+00	3.49E+00	
1.6E+00	2.00E-01	8.24E-01	9.16E-01	1.41E+00	1.73E+00	2.18E+00	2.39E+00	2.64E+00	2.80E+00	2.88E+00	3.02E+00	3.06E+00	3.06E+00	
1.8E+00	1.34E-01	5.62E-01	6.31E-01	1.12E+00	1.44E+00	1.88E+00	2.09E+00	2.31E+00	2.47E+00	2.54E+00	2.69E+00	2.73E+00	2.73E+00	
2.0E+00	8.97E-02	3.74E-01	4.34E-01	9.20E-01	1.24E+00	1.66E+00	1.87E+00	2.07E+00	2.22E+00	2.30E+00	2.44E+00	2.48E+00	2.48E+00	
2.4E+00	4.12E-02	1.66E-01	2.24E-01	6.99E-01	1.01E+00	1.40E+00	1.59E+00	1.74E+00	1.90E+00	1.98E+00	2.11E+00	2.15E+00	2.15E+00	
3.0E+00	1.53E-02	7.69E-02	1.28E-01	5.77E-01	8.74E-01	1.20E+00	1.36E+00	1.46E+00	1.61E+00	1.69E+00	1.81E+00	1.85E+00	1.85E+00	
4.0E+00	6.18E-03	6.20E-02	8.62E-02	4.62E-01	7.13E-01	9.22E-01	1.03E+00	1.07E+00	1.22E+00	1.30E+00	1.40E+00	1.44E+00	1.44E+00	
5.0E+00	4.49E-03	4.42E-02	5.22E-02	3.41E-01	5.35E-01	6.51E-01	7.12E-01	7.37E-01	8.85E-01	9.57E-01	1.04E+00	1.08E+00	1.08E+00	
6.0E+00	3.62E-03	2.49E-02	2.87E-02	2.38E-01	3.79E-01	4.37E-01	4.68E-01	4.91E-01	6.31E-01	7.00E-01	7.68E-01	8.07E-01	8.07E-01	
7.0E+00	2.81E-03	1.27E-02	1.60E-02	1.62E-01	2.60E-01	2.89E-01	3.05E-01	3.27E-01	4.58E-01	5.23E-01	5.75E-01	6.13E-01	6.13E-01	
8.0E+00	2.08E-03	6.72E-03	1.00E-02	1.09E-01	1.76E-01	1.93E-01	2.02E-01	2.22E-01	3.43E-01	4.03E-01	4.40E-01	4.78E-01	4.78E-01	
1.0E+01	1.05E-03	3.25E-03	5.45E-03	4.98E-02	8.02E-02	9.26E-02	9.86E-02	1.11E-01	2.07E-01	2.55E-01	2.74E-01	3.08E-01	3.10E-01	
1.5E+01	1.52E-04	1.89E-03	2.17E-03	8.77E-03	1.32E-02	2.28E-02	2.76E-02	2.92E-02	7.32E-02	9.72E-02	1.02E-01	1.30E-01	1.30E-01	
2.0E+01	2.86E-05	8.29E-04	9.19E-04	2.00E-03	2.76E-03	7.16E-03	9.36E-03	9.98E-03	2.84E-02	3.84E-02	4.20E-02	6.40E-02	6.30E-02	
3.0E+01	6.24E-06	1.36E-04	2.04E-04	2.62E-04	3.06E-04	9.86E-04	1.37E-03	1.83E-03	4.87E-03	6.61E-03	9.01E-03	2.02E-02	2.00E-02	
4.0E+01	2.52E-06	2.75E-05	5.95E-05	6.52E-05	6.96E-05	1.94E-04	2.72E-04	4.92E-04	1.09E-03	1.47E-03	2.59E-03	8.19E-03	8.10E-03	
6.0E+01	4.64E-07	2.30E-06	8.50E-06	8.67E-06	8.81E-06	1.76E-05	2.38E-05	6.78E-05	1.12E-04	1.44E-04	3.84E-04	1.76E-03	1.80E-03	
1.0E+02	4.01E-08	9.73E-08	6.37E-07	6.39E-07	6.41E-07	8.81E-07	1.12E-06	4.92E-06	6.20E-06	7.42E-06	2.74E-05	1.83E-04	1.80E-04	
E[keV]:	0.00E+00	3.10E-02	5.40E-02	1.82E-01	1.85E-01	3.33E-01	3.47E-01	4.33E-01	2.22E+00	2.31E+00	2.53E+00	1.80E+01		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10^-2
0.0
40Zr
Σ_i J_i(Q)
Q

Z=41

Compton profiles for the single orbitals and binding energies

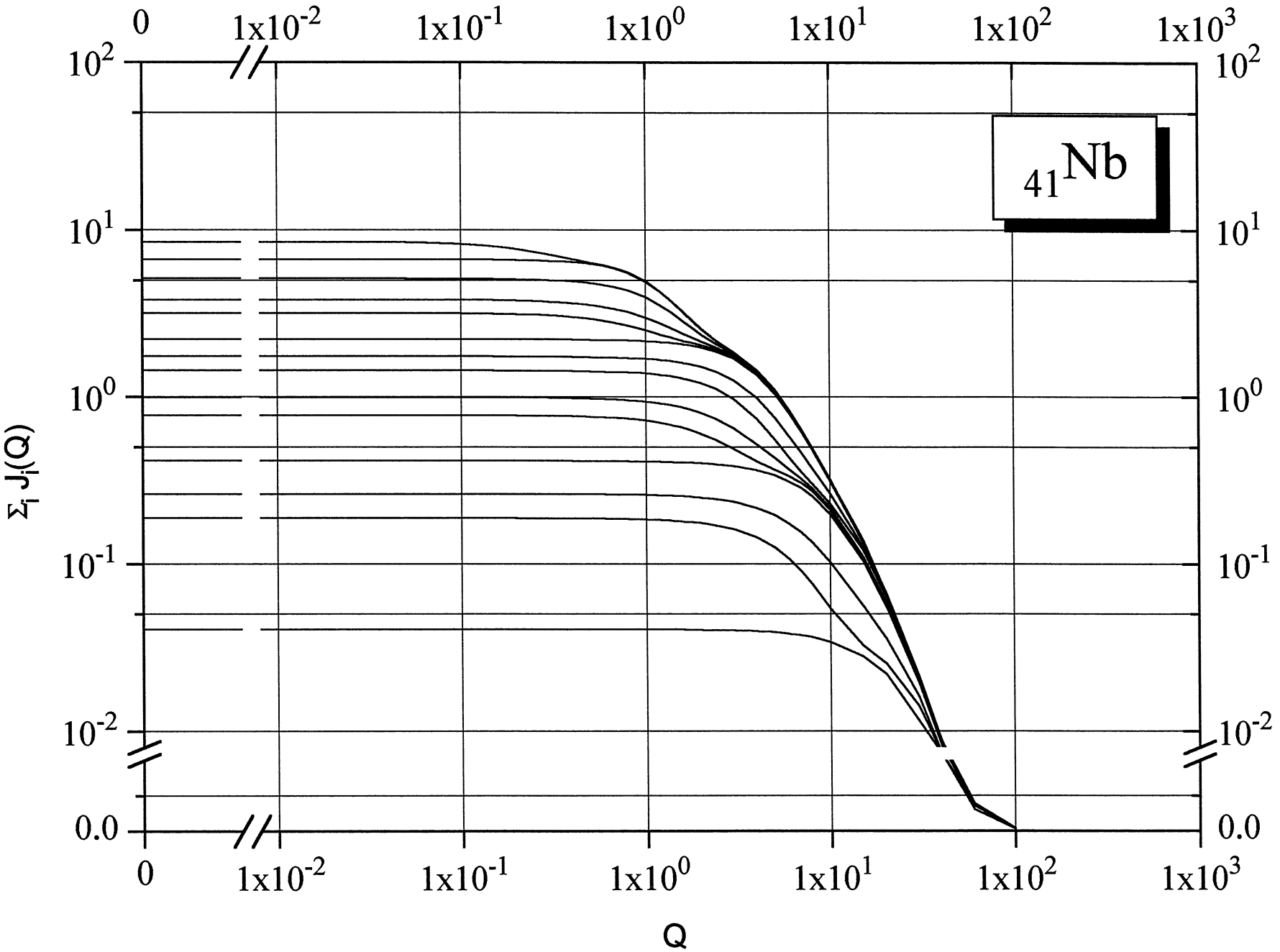
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(1)	Total
0.0E+00	2.03E-02	7.41E-02	3.71E-02	3.81E-02	1.82E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	4.80E-01	3.24E-01	3.26E-01	3.85E-01	1.88E+00	8.56E+00
5.0E-02	2.03E-02	7.40E-02	3.71E-02	3.81E-02	1.82E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	4.79E-01	3.24E-01	3.26E-01	3.85E-01	1.81E+00	8.49E+00
1.0E-01	2.03E-02	7.40E-02	3.71E-02	3.81E-02	1.82E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	4.75E-01	3.24E-01	3.26E-01	3.85E-01	1.63E+00	8.30E+00
1.5E-01	2.03E-02	7.40E-02	3.71E-02	3.81E-02	1.82E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	4.69E-01	3.24E-01	3.26E-01	3.85E-01	1.37E+00	8.03E+00
2.0E-01	2.03E-02	7.40E-02	3.71E-02	3.81E-02	1.81E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	4.60E-01	3.24E-01	3.25E-01	3.84E-01	1.08E+00	7.72E+00
3.0E-01	2.03E-02	7.39E-02	3.71E-02	3.81E-02	1.80E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	4.36E-01	3.23E-01	3.24E-01	3.83E-01	5.67E-01	7.14E+00
4.0E-01	2.03E-02	7.38E-02	3.71E-02	3.81E-02	1.78E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	4.05E-01	3.20E-01	3.22E-01	3.77E-01	2.48E-01	6.71E+00
5.0E-01	2.03E-02	7.36E-02	3.71E-02	3.81E-02	1.75E-01	1.09E-01	1.12E-01	7.79E-02	7.87E-02	3.68E-01	3.15E-01	3.16E-01	3.66E-01	1.03E-01	6.41E+00
6.0E-01	2.03E-02	7.35E-02	3.71E-02	3.81E-02	1.72E-01	1.09E-01	1.11E-01	7.79E-02	7.87E-02	3.28E-01	3.06E-01	3.08E-01	3.49E-01	5.55E-02	6.15E+00
7.0E-01	2.03E-02	7.32E-02	3.71E-02	3.81E-02	1.69E-01	1.09E-01	1.11E-01	7.79E-02	7.87E-02	2.87E-01	2.94E-01	2.96E-01	3.23E-01	4.57E-02	5.89E+00
8.0E-01	2.03E-02	7.30E-02	3.71E-02	3.81E-02	1.65E-01	1.09E-01	1.11E-01	7.79E-02	7.87E-02	2.47E-01	2.79E-01	2.81E-01	2.95E-01	4.52E-02	5.59E+00
1.0E+00	2.03E-02	7.24E-02	3.71E-02	3.81E-02	1.56E-01	1.09E-01	1.11E-01	7.79E-02	7.87E-02	1.73E-01	2.41E-01	2.43E-01	2.35E-01	4.02E-02	4.95E+00
1.2E+00	2.03E-02	7.17E-02	3.71E-02	3.81E-02	1.46E-01	1.08E-01	1.10E-01	7.79E-02	7.86E-02	1.15E-01	1.98E-01	1.98E-01	1.79E-01	2.86E-02	4.30E+00
1.4E+00	2.03E-02	7.09E-02	3.71E-02	3.81E-02	1.35E-01	1.07E-01	1.09E-01	7.78E-02	7.85E-02	7.46E-02	1.53E-01	1.53E-01	1.32E-01	1.76E-02	3.72E+00
1.6E+00	2.03E-02	6.99E-02	3.71E-02	3.81E-02	1.24E-01	1.05E-01	1.07E-01	7.76E-02	7.84E-02	4.97E-02	1.14E-01	1.12E-01	9.50E-02	9.93E-03	3.24E+00
1.8E+00	2.02E-02	6.89E-02	3.70E-02	3.81E-02	1.12E-01	1.03E-01	1.05E-01	7.74E-02	7.81E-02	3.64E-02	8.08E-02	7.91E-02	6.74E-02	5.47E-03	2.86E+00
2.0E+00	2.02E-02	6.77E-02	3.70E-02	3.81E-02	9.99E-02	1.01E-01	1.02E-01	7.70E-02	7.77E-02	3.05E-02	5.57E-02	5.40E-02	4.71E-02	3.21E-03	2.57E+00
2.4E+00	2.01E-02	6.51E-02	3.70E-02	3.80E-02	7.76E-02	9.42E-02	9.52E-02	7.57E-02	7.63E-02	2.84E-02	2.55E-02	2.44E-02	2.23E-02	1.89E-03	2.18E+00
3.0E+00	2.00E-02	6.07E-02	3.68E-02	3.78E-02	4.97E-02	8.11E-02	8.12E-02	7.22E-02	7.27E-02	2.63E-02	1.08E-02	1.09E-02	7.11E-03	1.79E-03	1.85E+00
4.0E+00	1.98E-02	5.21E-02	3.63E-02	3.72E-02	2.22E-02	5.54E-02	5.44E-02	6.23E-02	6.24E-02	1.38E-02	9.15E-03	9.52E-03	2.05E-03	1.05E-03	1.45E+00
5.0E+00	1.95E-02	4.31E-02	3.53E-02	3.61E-02	1.27E-02	3.27E-02	3.13E-02	4.95E-02	4.93E-02	4.90E-03	7.24E-03	7.26E-03	1.82E-03	3.73E-04	1.11E+00
6.0E+00	1.91E-02	3.43E-02	3.38E-02	3.45E-02	1.11E-02	1.74E-02	1.62E-02	3.69E-02	3.66E-02	2.10E-03	4.26E-03	4.12E-03	1.69E-03	1.41E-04	8.38E-01
7.0E+00	1.87E-02	2.64E-02	3.19E-02	3.25E-02	1.10E-02	8.84E-03	8.18E-03	2.64E-02	2.60E-02	1.71E-03	2.12E-03	1.99E-03	1.37E-03	1.05E-04	6.39E-01
8.0E+00	1.82E-02	1.97E-02	2.96E-02	3.00E-02	1.01E-02	4.90E-03	4.64E-03	1.84E-02	1.81E-02	1.69E-03	1.01E-03	9.36E-04	1.02E-03	1.04E-04	4.99E-01
1.0E+01	1.70E-02	1.00E-02	2.40E-02	2.40E-02	6.60E-03	3.00E-03	3.10E-03	8.60E-03	8.40E-03	1.20E-03	3.80E-04	3.90E-04	5.00E-04	7.60E-05	3.20E-01
1.5E+01	1.40E-02	2.30E-03	1.20E-02	1.20E-02	9.50E-04	2.50E-03	2.50E-03	1.30E-03	1.30E-03	1.80E-04	3.00E-04	3.10E-04	7.90E-05	1.10E-05	1.40E-01
2.0E+01	1.10E-02	1.70E-03	5.30E-03	5.00E-03	3.10E-04	1.20E-03	1.20E-03	2.40E-04	2.20E-04	4.70E-05	1.60E-04	1.50E-04	1.40E-05	2.90E-06	6.70E-02
3.0E+01	5.80E-03	1.30E-03	9.80E-04	8.50E-04	2.40E-04	2.20E-04	1.90E-04	1.30E-05	1.20E-05	3.60E-05	2.80E-05	2.50E-05	8.00E-07	2.20E-06	2.10E-02
4.0E+01	2.90E-03	6.00E-04	2.10E-04	1.70E-04	1.20E-04	4.60E-05	3.70E-05	1.40E-06	1.20E-06	1.80E-05	5.80E-06	4.80E-06	8.10E-08	1.10E-06	8.70E-03
6.0E+01	7.60E-04	1.30E-04	1.90E-05	1.30E-05	2.40E-05	3.80E-06	2.70E-06	4.50E-08	3.60E-08	3.60E-06	4.70E-07	3.40E-07	2.60E-09	2.20E-07	1.90E-03
1.0E+02	8.70E-05	1.20E-05	7.40E-07	3.80E-07	2.10E-06	1.40E-07	7.30E-08	5.70E-10	3.80E-10	3.20E-07	1.80E-08	9.40E-09	3.50E-11	1.90E-08	2.10E-04
E[keV]:	1.90E+01	2.69E+00	2.46E+00	2.37E+00	4.66E-01	3.76E-01	3.60E-01	2.05E-01	2.02E-01	5.50E-02	3.10E-02	3.10E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(1)	Total
0.0E+00	4.06E-02	1.89E-01	2.63E-01	4.15E-01	7.79E-01	9.97E-01	1.45E+00	1.76E+00	2.23E+00	3.19E+00	3.84E+00	5.14E+00	6.68E+00	8.56E+00	8.56E+00
5.0E-02	4.06E-02	1.89E-01	2.63E-01	4.15E-01	7.79E-01	9.97E-01	1.45E+00	1.76E+00	2.23E+00	3.19E+00	3.84E+00	5.14E+00	6.68E+00	8.49E+00	8.49E+00
1.0E-01	4.06E-02	1.89E-01	2.63E-01	4.15E-01	7.79E-01	9.97E-01	1.45E+00	1.76E+00	2.23E+00	3.18E+00	3.83E+00	5.13E+00	6.67E+00	8.30E+00	8.30E+00
1.5E-01	4.06E-02	1.89E-01	2.63E-01	4.15E-01	7.79E-01	9.97E-01	1.45E+00	1.76E+00	2.23E+00	3.17E+00	3.82E+00	5.12E+00	6.66E+00	8.03E+00	8.03E+00
2.0E-01	4.06E-02	1.89E-01	2.63E-01	4.15E-01	7.77E-01	9.95E-01	1.44E+00	1.75E+00	2.23E+00	3.15E+00	3.80E+00	5.10E+00	6.63E+00	7.71E+00	7.72E+00
3.0E-01	4.06E-02	1.88E-01	2.63E-01	4.15E-01	7.75E-01	9.93E-01	1.44E+00	1.75E+00	2.22E+00	3.10E+00	3.74E+00	5.04E+00	6.57E+00	7.14E+00	7.14E+00
4.0E-01	4.06E-02	1.88E-01	2.62E-01	4.15E-01	7.71E-01	9.89E-01	1.44E+00	1.75E+00	2.22E+00	3.03E+00	3.67E+00	4.96E+00	6.47E+00	6.71E+00	6.71E+00
5.0E-01	4.06E-02	1.88E-01	2.62E-01	4.14E-01	7.64E-01	9.82E-01	1.43E+00	1.74E+00	2.21E+00	2.95E+00	3.58E+00	4.84E+00	6.31E+00	6.41E+00	6.41E+00
6.0E-01	4.06E-02	1.88E-01	2.62E-01	4.14E-01	7.58E-01	9.76E-01	1.42E+00	1.73E+00	2.20E+00	2.86E+00	3.47E+00	4.70E+00	6.10E+00	6.15E+00	6.15E+00
7.0E-01	4.06E-02	1.87E-01	2.61E-01	4.14E-01	7.52E-01	9.70E-01	1.41E+00	1.73E+00	2.20E+00	2.77E+00	3.36E+00	4.54E+00	5.84E+00	5.88E+00	5.89E+00
8.0E-01	4.06E-02	1.87E-01	2.61E-01	4.13E-01	7.43E-01	9.61E-01	1.41E+00	1.72E+00	2.19E+00	2.68E+00	3.24E+00	4.37E+00	5.55E+00	5.59E+00	5.59E+00
1.0E+00	4.06E-02	1.85E-01	2.60E-01	4.12E-01	7.24E-01	9.42E-01	1.39E+00	1.70E+00	2.17E+00	2.52E+00	3.00E+00	3.97E+00	4.91E+00	4.95E+00	4.95E+00
1.2E+00	4.06E-02	1.84E-01	2.58E-01	4.11E-01	7.03E-01	9.19E-01	1.36E+00	1.67E+00	2.14E+00	2.37E+00	2.77E+00	3.56E+00	4.28E+00	4.30E+00	4.30E+00
1.4E+00	4.06E-02	1.83E-01	2.57E-01	4.09E-01	6.79E-01	8.93E-01	1.33E+00	1.64E+00	2.11E+00	2.26E+00	2.57E+00	3.18E+00	3.71E+00	3.72E+00	3.72E+00
1.6E+00	4.06E-02	1.80E-01	2.55E-01	4.07E-01	6.55E-01	8.65E-01	1.29E+00	1.60E+00	2.07E+00	2.17E+00	2.40E+00	2.85E+00	3.23E+00	3.24E+00	3.24E+00
1.8E+00	4.04E-02	1.78E-01	2.52E-01	4.05E-01	6.29E-01	8.35E-01	1.25E+00	1.56E+00	2.03E+00	2.11E+00	2.27E+00	2.58E+00	2.85E+00	2.86E+00	2.86E+00
2.0E+00	4.04E-02	1.76E-01	2.50E-01	4.02E-01	6.02E-01	8.04E-01	1.21E+00	1.52E+00	1.99E+00	2.05E+00	2.16E+00	2.37E+00	2.56E+00	2.57E+00	2.57E+00
2.4E+00	4.02E-02	1.70E-01	2.44E-01	3.96E-01	5.52E-01	7.40E-01	1.12E+00	1.42E+00	1.86E+00	1.94E+00	1.99E+00	2.09E+00	2.18E+00	2.18E+00	2.18E+00
3.0E+00	4.00E-02	1.61E-01	2.35E-01	3.86E-01	4.86E-01	6.48E-01	9.73E-01	1.26E+00	1.70E+00	1.75E+00	1.77E+00	1.82E+00	1.84E+00	1.85E+00	1.85E+00
4.0E+00	3.96E-02	1.44E-01	2.16E-01	3.65E-01	4.10E-01	5.20E-01	7.38E-01	9.87E-01	1.36E+00	1.39E+00	1.41E+00	1.45E+00	1.45E+00	1.45E+00	1.45E+00
5.0E+00	3.90E-02	1.25E-01	1.96E-01	3.40E-01	3.66E-01	4.31E-01	5.56E-01	7.54E-01	1.05E+00	1.06E+00	1.07E+00	1.10E+00	1.11E+00	1.11E+00	1.11E+00
6.0E+00	3.82E-02	1.07E-01	1.74E-01	3.12E-01	3.35E-01	3.69E-01	4.34E-01	5.82E-01	8.01E-01	8.06E-01	8.14E-01	8.31E-01	8.37E-01	8.38E-01	8.38E-01
7.0E+00	3.74E-02	9.02E-02	1.54E-01	2.84E-01	3.06E-01	3.24E-01	3.56E-01	4.62E-01	6.18E-01	6.21E-01	6.26E-01	6.34E-01	6.39E-01	6.39E-01	6.39E-01
8.0E+00	3.64E-02	7.58E-02	1.35E-01	2.55E-01	2.75E-01	2.85E-01	3.04E-01	3.77E-01	4.86E-01	4.89E-01	4.91E-01	4.95E-01	4.99E-01	4.99E-01	4.99E-01
1.0E+01	3.40E-02	1.49E-02	1.09E-01	2.11E-01	2.17E-01	2.19E-01	2.19E-01	2.64E-01	3.14E-01	3.17E-01	3.19E-01	3.21E-01	3.21E-01	3.21E-01	3.20E-01
1.5E+01	2.80E-02	3.26E-02	5.66E-02	1.05E-01	1.07E-01	1.11E-01	1.22E-01	1.27E-01	1.35E-01	1.35E-01	1.35E-01	1.37E-01	1.37E-01	1.37E-01	1.40E-01
2.0E+01	2.20E-02	2.54E-02	3.60E-02	5.60E-02	5.66E-02	5.90E-02	6.38E-02	6.48E-02	6.61E-02	6.62E-02	6.65E-02	6.71E-02	6.72E-02	6.72E-02	6.70E-02
3.0E+01	1.16E-02	1.42E-02	1.62E-02	1.96E-02	2.00E-02	2.05E-02	2.12E-02	2.13E-02	2.14E-02	2.14E-02	2.15E-02	2.16E-02	2.16E-02	2.16E-02	2.10E-02
4.0E+01	5.80E-03	7.00E-03	7.42E-03	8.10E-03	8.34E-03	8.43E-03	8.58E-03	8.59E-03	8.59E-03	8.63E-03	8.64E-03	8.66E-03	8.66E-03	8.66E-03	8.70E-03
6.0E+01	1.52E-03	1.76E-03	1.82E-03	1.87E-03	1.92E-03	1.93E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.95E-03	1.95E-03	1.90E-03
1.0E+02	1.74E-04	1.98E-04	1.99E-04	2.01E-04	2.05E-04	2.05E-04	2.06E-04	2.06E-04	2.06E-04	2.06E-04	2.06E-04	2.06E-04	2.06E-04	2.07E-04	2.10E-04
E[keV]:	1.90E+01	2.69E+00	2.46E+00	2.37E+00	4.66E-01	3.76E-01	3.60E-01	2.05E-01	2.02E-01	5.50E-02	3.10E-02	3.10E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z													
0.0E+00	3.42E+00	5.37E+00	6.33E+00	6.80E+00	7.12E+00	7.56E+00	7.78E+00	8.15E+00	8.30E+00	8.37E+00	8.52E+00	8.56E+00	8.56E+00
5.0E-02	3.35E+00	5.30E+00	6.26E+00	6.73E+00	7.04E+00	7.49E+00	7.71E+00	8.07E+00	8.23E+00	8.30E+00	8.45E+00	8.49E+00	8.49E+00
1.0E-01	3.17E+00	5.12E+00	6.07E+00	6.54E+00	6.86E+00	7.30E+00	7.52E+00	7.89E+00	8.04E+00	8.11E+00	8.26E+00	8.30E+00	8.30E+00
1.5E-01	2.91E+00	4.86E+00	5.80E+00	6.27E+00	6.58E+00	7.03E+00	7.25E+00	7.61E+00	7.77E+00	7.84E+00	7.99E+00	8.03E+00	8.03E+00
2.0E-01	2.62E+00	4.56E+00	5.48E+00	5.96E+00	6.27E+00	6.72E+00	6.93E+00	7.30E+00	7.45E+00	7.52E+00	7.67E+00	7.71E+00	7.72E+00
3.0E-01	2.10E+00	4.04E+00	4.91E+00	5.39E+00	5.70E+00	6.14E+00	6.36E+00	6.72E+00	6.88E+00	6.95E+00	7.10E+00	7.14E+00	7.14E+00
4.0E-01	1.76E+00	3.68E+00	4.49E+00	4.97E+00	5.28E+00	5.73E+00	5.94E+00	6.30E+00	6.45E+00	6.53E+00	6.67E+00	6.71E+00	6.71E+00
5.0E-01	1.57E+00	3.46E+00	4.20E+00	4.67E+00	4.98E+00	5.43E+00	5.65E+00	6.00E+00	6.15E+00	6.22E+00	6.37E+00	6.41E+00	6.41E+00
6.0E-01	1.45E+00	3.29E+00	3.95E+00	4.42E+00	4.73E+00	5.18E+00	5.39E+00	5.74E+00	5.89E+00	5.96E+00	6.11E+00	6.15E+00	6.15E+00
7.0E-01	1.34E+00	3.11E+00	3.68E+00	4.16E+00	4.47E+00	4.91E+00	5.13E+00	5.47E+00	5.62E+00	5.69E+00	5.84E+00	5.88E+00	5.89E+00
8.0E-01	1.23E+00	2.91E+00	3.40E+00	3.87E+00	4.18E+00	4.63E+00	4.85E+00	5.18E+00	5.32E+00	5.40E+00	5.55E+00	5.59E+00	5.59E+00
1.0E+00	9.80E-01	2.43E+00	2.78E+00	3.25E+00	3.56E+00	4.01E+00	4.23E+00	4.54E+00	4.69E+00	4.76E+00	4.91E+00	4.95E+00	4.95E+00
1.2E+00	7.45E-01	1.93E+00	2.16E+00	2.63E+00	2.95E+00	3.39E+00	3.60E+00	3.89E+00	4.05E+00	4.12E+00	4.26E+00	4.30E+00	4.30E+00
1.4E+00	5.46E-01	1.46E+00	1.61E+00	2.08E+00	2.40E+00	2.83E+00	3.05E+00	3.32E+00	3.47E+00	3.54E+00	3.68E+00	3.72E+00	3.72E+00
1.6E+00	3.90E-01	1.07E+00	1.17E+00	1.64E+00	1.95E+00	2.37E+00	2.58E+00	2.83E+00	2.98E+00	3.06E+00	3.20E+00	3.24E+00	3.24E+00
1.8E+00	2.75E-01	7.53E-01	8.26E-01	1.29E+00	1.60E+00	2.02E+00	2.23E+00	2.45E+00	2.61E+00	2.68E+00	2.82E+00	2.86E+00	2.86E+00
2.0E+00	1.92E-01	5.19E-01	5.80E-01	1.05E+00	1.35E+00	1.76E+00	1.96E+00	2.16E+00	2.32E+00	2.39E+00	2.53E+00	2.57E+00	2.57E+00
2.4E+00	9.11E-02	2.40E-01	2.96E-01	7.54E-01	1.06E+00	1.44E+00	1.63E+00	1.78E+00	1.93E+00	2.01E+00	2.14E+00	2.18E+00	2.18E+00
3.0E+00	3.02E-02	9.54E-02	1.48E-01	5.84E-01	8.73E-01	1.20E+00	1.36E+00	1.46E+00	1.61E+00	1.68E+00	1.81E+00	1.85E+00	1.85E+00
4.0E+00	9.25E-03	6.56E-02	9.32E-02	4.68E-01	7.17E-01	9.34E-01	1.05E+00	1.09E+00	1.24E+00	1.31E+00	1.42E+00	1.45E+00	1.45E+00
5.0E+00	7.65E-03	5.12E-02	6.10E-02	3.57E-01	5.55E-01	6.80E-01	7.45E-01	7.71E-01	9.15E-01	9.86E-01	1.07E+00	1.11E+00	1.11E+00
6.0E+00	6.90E-03	3.19E-02	3.61E-02	2.56E-01	4.03E-01	4.68E-01	5.03E-01	5.25E-01	6.63E-01	7.31E-01	7.99E-01	8.38E-01	8.38E-01
7.0E+00	5.58E-03	1.78E-02	2.12E-02	1.77E-01	2.83E-01	3.16E-01	3.32E-01	3.55E-01	4.85E-01	5.49E-01	6.02E-01	6.39E-01	6.39E-01
8.0E+00	4.18E-03	9.95E-03	1.33E-02	1.22E-01	1.96E-01	2.14E-01	2.24E-01	2.44E-01	3.64E-01	4.23E-01	4.63E-01	4.99E-01	4.99E-01
1.0E+01	2.08E-03	4.40E-03	6.80E-03	5.72E-02	9.16E-02	1.04E-01	1.10E-01	1.23E-01	2.19E-01	2.67E-01	2.87E-01	3.21E-01	3.20E-01
1.5E+01	3.27E-04	2.17E-03	2.53E-03	1.03E-02	1.55E-02	2.55E-02	3.05E-02	3.24E-02	8.04E-02	1.04E-01	1.09E-01	1.37E-01	1.40E-01
2.0E+01	5.89E-05	9.79E-04	1.07E-03	2.39E-03	3.35E-03	8.15E-03	1.06E-02	1.12E-02	3.12E-02	4.18E-02	4.52E-02	6.72E-02	6.70E-02
3.0E+01	5.40E-06	1.61E-04	2.33E-04	3.05E-04	3.57E-04	1.12E-03	1.56E-03	2.04E-03	5.44E-03	7.40E-03	1.00E-02	2.16E-02	2.10E-02
4.0E+01	1.42E-06	3.22E-05	6.82E-05	7.54E-05	8.10E-05	2.29E-04	3.21E-04	5.61E-04	1.24E-03	1.66E-03	2.86E-03	8.66E-03	8.70E-03
6.0E+01	2.30E-07	2.53E-06	9.73E-06	9.95E-06	1.01E-05	2.09E-05	2.85E-05	7.65E-05	1.29E-04	1.67E-04	4.27E-04	1.95E-03	1.90E-03
1.0E+02	1.91E-08	9.27E-08	7.33E-07	7.35E-07	7.37E-07	1.03E-06	1.31E-06	5.51E-06	7.03E-06	8.51E-06	3.25E-05	2.07E-04	2.10E-04
E[keV]:	0.00E+00	3.10E-02	5.50E-02	2.02E-01	2.05E-01	3.60E-01	3.76E-01	4.66E-01	2.37E+00	2.46E+00	2.69E+00	1.90E+01	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1x103
102
101
100
10-1
10-2
0.0
41Nb
Σi Ji(Q)
Q

Z=42

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(1)	4f-(1)	Total
0.0E+00	1.98E-02	7.20E-02	3.60E-02	3.71E-02	1.76E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	4.56E-01	3.06E-01	3.09E-01	3.47E-01	3.57E-01	1.82E+00	8.48E+00
5.0E-02	1.98E-02	7.20E-02	3.60E-02	3.71E-02	1.76E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	4.55E-01	3.06E-01	3.09E-01	3.47E-01	3.57E-01	1.76E+00	8.42E+00
1.0E-01	1.98E-02	7.20E-02	3.60E-02	3.71E-02	1.76E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	4.52E-01	3.06E-01	3.09E-01	3.47E-01	3.57E-01	1.60E+00	8.24E+00
1.5E-01	1.98E-02	7.20E-02	3.60E-02	3.71E-02	1.75E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	4.46E-01	3.06E-01	3.09E-01	3.47E-01	3.57E-01	1.36E+00	7.99E+00
2.0E-01	1.98E-02	7.19E-02	3.60E-02	3.71E-02	1.75E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	4.39E-01	3.06E-01	3.09E-01	3.47E-01	3.57E-01	1.09E+00	7.70E+00
3.0E-01	1.98E-02	7.19E-02	3.60E-02	3.71E-02	1.74E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	4.18E-01	3.05E-01	3.08E-01	3.46E-01	3.56E-01	5.90E-01	7.15E+00
4.0E-01	1.98E-02	7.17E-02	3.60E-02	3.71E-02	1.72E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	3.90E-01	3.03E-01	3.06E-01	3.43E-01	3.52E-01	2.69E-01	6.74E+00
5.0E-01	1.98E-02	7.16E-02	3.60E-02	3.71E-02	1.70E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	3.58E-01	2.98E-01	3.02E-01	3.36E-01	3.44E-01	1.14E-01	6.46E+00
6.0E-01	1.98E-02	7.14E-02	3.60E-02	3.71E-02	1.67E-01	1.05E-01	1.08E-01	7.47E-02	7.54E-02	3.22E-01	2.92E-01	2.95E-01	3.25E-01	3.30E-01	5.76E-02	6.22E+00
7.0E-01	1.98E-02	7.12E-02	3.60E-02	3.71E-02	1.64E-01	1.05E-01	1.07E-01	7.47E-02	7.54E-02	2.85E-01	2.83E-01	2.85E-01	3.08E-01	3.11E-01	4.35E-02	5.98E+00
8.0E-01	1.98E-02	7.10E-02	3.60E-02	3.71E-02	1.60E-01	1.05E-01	1.07E-01	7.47E-02	7.54E-02	2.48E-01	2.70E-01	2.73E-01	2.87E-01	2.88E-01	4.20E-02	5.72E+00
1.0E+00	1.98E-02	7.05E-02	3.60E-02	3.71E-02	1.52E-01	1.05E-01	1.07E-01	7.47E-02	7.54E-02	1.79E-01	2.39E-01	2.40E-01	2.40E-01	2.37E-01	3.90E-02	5.12E+00
1.2E+00	1.98E-02	6.98E-02	3.60E-02	3.71E-02	1.43E-01	1.04E-01	1.06E-01	7.46E-02	7.53E-02	1.23E-01	2.00E-01	2.00E-01	1.91E-01	1.87E-01	2.95E-02	4.50E+00
1.4E+00	1.97E-02	6.91E-02	3.60E-02	3.71E-02	1.33E-01	1.03E-01	1.05E-01	7.46E-02	7.53E-02	8.17E-02	1.60E-01	1.59E-01	1.47E-01	1.43E-01	1.92E-02	3.91E+00
1.6E+00	1.97E-02	6.82E-02	3.60E-02	3.71E-02	1.22E-01	1.02E-01	1.04E-01	7.44E-02	7.52E-02	5.48E-02	1.23E-01	1.21E-01	1.11E-01	1.06E-01	1.14E-02	3.41E+00
1.8E+00	1.97E-02	6.72E-02	3.60E-02	3.71E-02	1.11E-01	1.00E-01	1.02E-01	7.43E-02	7.49E-02	3.93E-02	9.02E-02	8.78E-02	8.15E-02	7.80E-02	6.51E-03	2.99E+00
2.0E+00	1.97E-02	6.62E-02	3.60E-02	3.70E-02	1.00E-01	9.81E-02	9.97E-02	7.40E-02	7.46E-02	3.16E-02	6.43E-02	6.18E-02	5.92E-02	5.63E-02	3.79E-03	2.67E+00
2.4E+00	1.96E-02	6.38E-02	3.59E-02	3.70E-02	7.90E-02	9.24E-02	9.35E-02	7.30E-02	7.36E-02	2.79E-02	3.08E-02	2.92E-02	3.00E-02	2.83E-02	1.93E-03	2.22E+00
3.0E+00	1.95E-02	5.96E-02	3.58E-02	3.68E-02	5.19E-02	8.07E-02	8.10E-02	7.01E-02	7.06E-02	2.68E-02	1.22E-02	1.20E-02	1.03E-02	9.63E-03	1.74E-03	1.85E+00
4.0E+00	1.93E-02	5.16E-02	3.53E-02	3.63E-02	2.38E-02	5.69E-02	5.60E-02	6.17E-02	6.19E-02	1.56E-02	9.26E-03	9.59E-03	2.56E-03	2.45E-03	1.15E-03	1.46E+00
5.0E+00	1.90E-02	4.31E-02	3.44E-02	3.53E-02	1.31E-02	3.49E-02	3.36E-02	5.02E-02	5.01E-02	5.97E-03	7.87E-03	7.89E-03	2.00E-03	1.97E-03	4.51E-04	1.14E+00
6.0E+00	1.86E-02	3.47E-02	3.31E-02	3.39E-02	1.09E-02	1.92E-02	1.80E-02	3.84E-02	3.81E-02	2.41E-03	4.98E-03	4.80E-03	1.93E-03	1.89E-03	1.64E-04	8.67E-01
7.0E+00	1.82E-02	2.71E-02	3.14E-02	3.20E-02	1.08E-02	1.00E-02	9.26E-03	2.80E-02	2.77E-02	1.76E-03	2.61E-03	2.44E-03	1.63E-03	1.59E-03	1.07E-04	6.65E-01
8.0E+00	1.78E-02	2.05E-02	2.93E-02	2.97E-02	1.02E-02	5.48E-03	5.13E-03	1.99E-02	1.96E-02	1.73E-03	1.27E-03	1.17E-03	1.25E-03	1.21E-03	1.04E-04	5.20E-01
1.0E+01	1.70E-02	1.10E-02	2.40E-02	2.40E-02	7.00E-03	3.00E-03	3.10E-03	9.60E-03	9.40E-03	1.30E-03	4.30E-04	4.30E-04	6.50E-04	6.20E-04	8.20E-05	3.40E-01
1.5E+01	1.40E-02	2.40E-03	1.30E-02	1.20E-02	1.10E-03	2.50E-03	2.50E-03	1.50E-03	1.50E-03	2.20E-04	3.30E-04	3.40E-04	1.10E-04	1.00E-04	1.30E-05	1.40E-01
2.0E+01	1.10E-02	1.70E-03	5.70E-03	5.30E-03	3.20E-04	1.30E-03	1.30E-03	2.90E-04	2.70E-04	5.00E-05	1.80E-04	1.70E-04	2.00E-05	1.90E-05	3.00E-06	7.00E-02
3.0E+01	5.90E-03	1.30E-03	1.10E-03	9.50E-04	2.50E-04	2.50E-04	2.20E-04	1.70E-05	1.50E-05	3.90E-05	3.40E-05	3.00E-05	1.20E-06	1.00E-06	2.30E-06	2.30E-02
4.0E+01	3.00E-03	6.40E-04	2.50E-04	2.00E-04	1.30E-04	5.30E-05	4.30E-05	1.80E-06	1.50E-06	2.00E-05	7.10E-06	5.90E-06	1.20E-07	1.00E-07	1.20E-06	9.30E-03
6.0E+01	8.20E-04	1.40E-04	2.20E-05	1.50E-05	2.70E-05	4.50E-06	3.20E-06	5.80E-08	4.60E-08	4.20E-06	6.00E-07	4.30E-07	4.00E-09	3.10E-09	2.50E-07	2.10E-03
1.0E+02	9.70E-05	1.30E-05	8.80E-07	4.50E-07	2.50E-06	1.70E-07	8.90E-08	7.40E-10	4.90E-10	3.80E-07	2.30E-08	1.20E-08	5.20E-11	3.40E-11	2.30E-08	2.30E-04

E[keV]: 2.00E+01 2.87E+00 2.63E+00 2.52E+00 5.05E-01 4.10E-01 3.93E-01 2.30E-01 2.26E-01 6.20E-02 3.50E-02 3.50E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

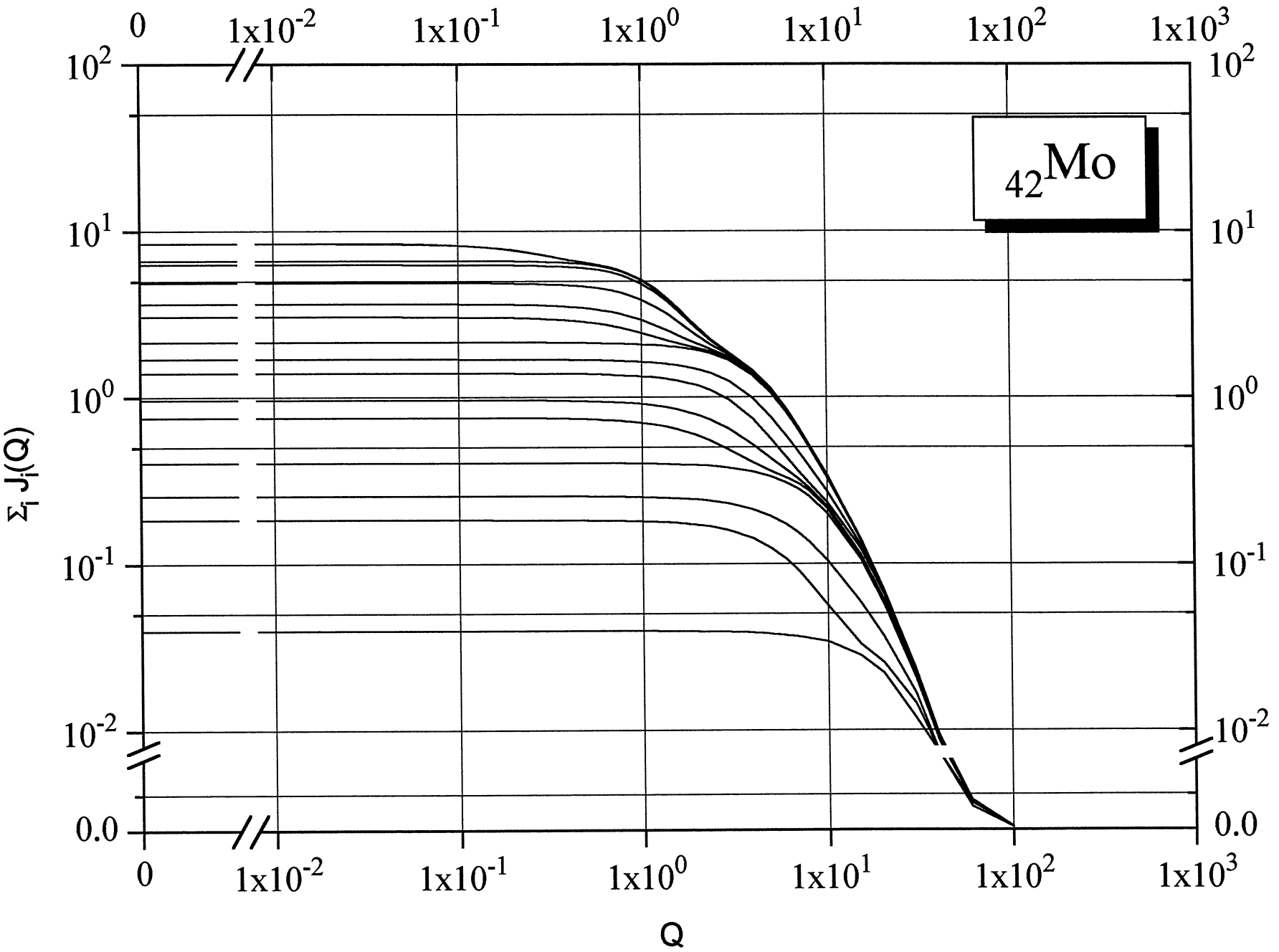
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(1)	4f-(1)	Total
0.0E+00	3.96E-02	1.84E-01	2.56E-01	4.04E-01	7.56E-01	9.66E-01	1.40E+00	1.70E+00	2.15E+00	3.06E+00	3.67E+00	4.91E+00	6.30E+00	6.65E+00	8.47E+00	8.48E+00
5.0E-02	3.96E-02	1.84E-01	2.56E-01	4.04E-01	7.56E-01	9.66E-01	1.40E+00	1.70E+00	2.15E+00	3.06E+00	3.67E+00	4.91E+00	6.30E+00	6.65E+00	8.41E+00	8.42E+00
1.0E-01	3.96E-02	1.84E-01	2.56E-01	4.04E-01	7.56E-01	9.66E-01	1.40E+00	1.70E+00	2.15E+00	3.05E+00	3.67E+00	4.90E+00	6.29E+00	6.65E+00	8.25E+00	8.24E+00
1.5E-01	3.96E-02	1.84E-01	2.56E-01	4.04E-01	7.54E-01	9.64E-01	1.40E+00	1.69E+00	2.15E+00	3.04E+00	3.65E+00	4.89E+00	6.28E+00	6.63E+00	7.99E+00	7.99E+00
2.0E-01	3.96E-02	1.83E-01	2.55E-01	4.04E-01	7.54E-01	9.64E-01	1.40E+00	1.69E+00	2.15E+00	3.03E+00	3.64E+00	4.87E+00	6.26E+00	6.62E+00	7.71E+00	7.70E+00
3.0E-01	3.96E-02	1.83E-01	2.55E-01	4.04E-01	7.52E-01	9.62E-01	1.39E+00	1.69E+00	2.15E+00	2.98E+00	3.59E+00	4.82E+00	6.21E+00	6.56E+00	7.15E+00	7.15E+00
4.0E-01	3.96E-02	1.83E-01	2.55E-01	4.03E-01	7.47E-01	9.57E-01	1.39E+00	1.69E+00	2.14E+00	2.92E+00	3.53E+00	4.75E+00	6.12E+00	6.47E+00	6.74E+00	6.74E+00
5.0E-01	3.96E-02	1.83E-01	2.55E-01	4.03E-01	7.43E-01	9.53E-01	1.39E+00	1.68E+00	2.14E+00	2.85E+00	3.45E+00	4.66E+00	6.00E+00	6.34E+00	6.46E+00	6.46E+00
6.0E-01	3.96E-02	1.82E-01	2.54E-01	4.03E-01	7.37E-01	9.47E-01	1.38E+00	1.68E+00	2.13E+00	2.77E+00	3.36E+00	4.54E+00	5.84E+00	6.17E+00	6.23E+00	6.22E+00
7.0E-01	3.96E-02	1.82E-01	2.54E-01	4.02E-01	7.30E-01	9.40E-01	1.37E+00	1.67E+00	2.12E+00	2.69E+00	3.26E+00	4.40E+00	5.63E+00	5.94E+00	5.98E+00	5.98E+00
8.0E-01	3.96E-02	1.82E-01	2.54E-01	4.02E-01	7.22E-01	9.32E-01	1.36E+00	1.66E+00	2.11E+00	2.61E+00	3.15E+00	4.24E+00	5.39E+00	5.68E+00	5.72E+00	5.72E+00
1.0E+00	3.96E-02	1.81E-01	2.53E-01	4.01E-01	7.05E-01	9.15E-01	1.34E+00	1.64E+00	2.09E+00	2.45E+00	2.93E+00	3.89E+00	4.85E+00	5.09E+00	5.13E+00	5.12E+00
1.2E+00	3.96E-02	1.79E-01	2.51E-01	4.00E-01	6.86E-01	8.94E-01	1.32E+00	1.62E+00	2.07E+00	2.31E+00	2.71E+00	3.51E+00	4.28E+00	4.46E+00	4.49E+00	4.50E+00
1.4E+00	3.94E-02	1.78E-01	2.50E-01	3.98E-01	6.64E-01	8.70E-01	1.29E+00	1.59E+00	2.04E+00	2.20E+00	2.52E+00	3.16E+00	3.75E+00	3.89E+00	3.91E+00	3.91E+00
1.6E+00	3.94E-02	1.76E-01	2.48E-01	3.96E-01	6.40E-01	8.44E-01	1.26E+00	1.56E+00	2.01E+00	2.12E+00	2.36E+00	2.85E+00	3.29E+00	3.40E+00	3.41E+00	3.41E+00
1.8E+00	3.94E-02	1.74E-01	2.46E-01	3.94E-01	6.16E-01	8.16E-01	1.22E+00	1.52E+00	1.97E+00	2.05E+00	2.23E+00	2.58E+00	2.91E+00	2.99E+00	2.99E+00	2.99E+00
2.0E+00	3.94E-02	1.72E-01	2.44E-01	3.92E-01	5.92E-01	7.88E-01	1.19E+00	1.48E+00	1.93E+00	1.99E+00	2.12E+00	2.37E+00	2.61E+00	2.66E+00	2.67E+00	2.67E+00
2.4E+00	3.92E-02	1.67E-01	2.39E-01	3.87E-01	5.45E-01	7.29E-01	1.10E+00	1.40E+00	1.84E+00	1.89E+00	1.95E+00	2.07E+00	2.19E+00	2.22E+00	2.22E+00	2.22E+00
3.0E+00	3.90E-02	1.58E-01	2.30E-01	3.77E-01	4.81E-01	6.42E-01	9.66E-01	1.25E+00	1.67E+00	1.72E+00	1.75E+00	1.80E+00	1.84E+00	1.85E+00	1.85E+00	1.85E+00
4.0E+00	3.86E-02	1.42E-01	2.12E-01	3.58E-01	4.05E-01	5.19E-01	7.43E-01	9.90E-01	1.36E+00	1.39E+00	1.41E+00	1.45E+00	1.46E+00	1.46E+00	1.46E+00	1.46E+00
5.0E+00	3.80E-02	1.24E-01	1.93E-01	3.34E-01	3.60E-01	4.30E-01	5.65E-01	7.65E-01	1.07E+00	1.08E+00	1.09E+00	1.13E+00	1.13E+00	1.14E+00	1.14E+00	1.14E+00
6.0E+00	3.72E-02	1.07E-01	1.73E-01	3.08E-01	3.30E-01	3.69E-01	4.41E-01	5.94E-01	8.23E-01	8.28E-01	8.38E-01	8.57E-01	8.65E-01	8.66E-01	8.67E-01	8.67E-01
7.0E+00	3.64E-02	9.06E-02	1.53E-01	2.81E-01	3.03E-01	3.23E-01	3.60E-01	4.72E-01	6.38E-01	6.42E-01	6.47E-01	6.57E-01	6.63E-01	6.65E-01	6.65E-01	6.65E-01
8.0E+00	3.56E-02	7.66E-02	1.35E-01	2.54E-01	2.74E-01	2.85E-01	3.06E-01	3.85E-01	5.03E-01	5.07E-01	5.09E-01	5.14E-01	5.19E-01	5.20E-01	5.20E-01	5.20E-01
1.0E+01	3.40E-02	5.60E-02	1.04E-01	2.00E-01	2.14E-01	2.20E-01	2.32E-01	2.71E-01	3.27E-01	3.30E-01	3.31E-01	3.32E-01	3.35E-01	3.36E-01	3.36E-01	3.40E-01
1.5E+01	2.80E-02	3.28E-02	5.88E-02	1.07E-01	1.09E-01	1.14E-01	1.24E-01	1.30E-01	1.39E-01	1.39E-01	1.40E-01	1.41E-01	1.42E-01	1.42E-01	1.42E-01	1.40E-01
2.0E+01	2.20E-02	2.54E-02	3.68E-02	5.80E-02	5.86E-02	6.12E-02	6.64E-02	6.76E-02	6.92E-02	6.93E-02	6.97E-02	7.04E-02	7.04E-02	7.05E-02	7.05E-02	7.00E-02
3.0E+01	1.18E-02	1.44E-02	1.66E-02	2.04E-02	2.09E-02	2.14E-02	2.23E-02	2.23E-02	2.24E-02	2.25E-02	2.26E-02	2.27E-02	2.27E-02	2.27E-02	2.27E-02	2.30E-02
4.0E+01	6.00E-03	7.28E-03	7.78E-03	8.58E-03	8.84E-03	8.95E-03	9.12E-03	9.13E-03	9.13E-03	9.17E-03	9.19E-03	9.21E-03	9.21E-03	9.21E-03	9.21E-03	9.30E-03
6.0E+01	1.64E-03	1.92E-03	1.96E-03	2.02E-03	2.08E-03	2.09E-03	2.10E-03	2.10E-03	2.10E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.11E-03	2.10E-03
1.0E+02	1.94E-04	2.20E-04	2.22E-04	2.24E-04	2.29E-04	2.29E-04	2.29E-04	2.29E-04	2.29E-04	2.30E-04	2.30E-04	2.30E-04	2.30E-04	2.30E-04	2.30E-04	2.30E-04

E[keV]: 2.00E+01 2.87E+00 2.63E+00 2.52E+00 5.05E-01 4.10E-01 3.93E-01 2.30E-01 2.26E-01 6.20E-02 3.50E-02 3.50E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z													
0.0E+00	3.57E+00	5.41E+00	6.33E+00	6.78E+00	7.08E+00	7.51E+00	7.72E+00	8.07E+00	8.22E+00	8.29E+00	8.43E+00	8.47E+00	8.48E+00
5.0E-02	3.51E+00	5.35E+00	6.26E+00	6.72E+00	7.01E+00	7.45E+00	7.66E+00	8.01E+00	8.16E+00	8.23E+00	8.37E+00	8.41E+00	8.42E+00
1.0E-01	3.35E+00	5.19E+00	6.10E+00	6.55E+00	6.85E+00	7.28E+00	7.49E+00	7.84E+00	7.99E+00	8.06E+00	8.21E+00	8.25E+00	8.24E+00
1.5E-01	3.11E+00	4.95E+00	5.85E+00	6.30E+00	6.60E+00	7.03E+00	7.24E+00	7.59E+00	7.74E+00	7.81E+00	7.95E+00	7.99E+00	7.99E+00
2.0E-01	2.84E+00	4.68E+00	5.56E+00	6.01E+00	6.31E+00	6.74E+00	6.95E+00	7.30E+00	7.45E+00	7.52E+00	7.67E+00	7.71E+00	7.70E+00
3.0E-01	2.33E+00	4.17E+00	5.01E+00	5.46E+00	5.76E+00	6.19E+00	6.40E+00	6.75E+00	6.90E+00	6.97E+00	7.11E+00	7.15E+00	7.15E+00
4.0E-01	1.99E+00	3.82E+00	4.60E+00	5.06E+00	5.35E+00	5.79E+00	6.00E+00	6.34E+00	6.49E+00	6.56E+00	6.70E+00	6.74E+00	6.74E+00
5.0E-01	1.80E+00	3.61E+00	4.32E+00	4.77E+00	5.07E+00	5.51E+00	5.72E+00	6.06E+00	6.20E+00	6.28E+00	6.42E+00	6.46E+00	6.46E+00
6.0E-01	1.69E+00	3.45E+00	4.10E+00	4.55E+00	4.85E+00	5.28E+00	5.49E+00	5.82E+00	5.97E+00	6.04E+00	6.19E+00	6.23E+00	6.22E+00
7.0E-01	1.59E+00	3.29E+00	3.86E+00	4.31E+00	4.61E+00	5.04E+00	5.25E+00	5.58E+00	5.73E+00	5.80E+00	5.94E+00	5.98E+00	5.98E+00
8.0E-01	1.48E+00	3.11E+00	3.61E+00	4.06E+00	4.36E+00	4.79E+00	5.00E+00	5.32E+00	5.46E+00	5.54E+00	5.68E+00	5.72E+00	5.72E+00
1.0E+00	1.24E+00	2.67E+00	3.03E+00	3.48E+00	3.78E+00	4.21E+00	4.42E+00	4.73E+00	4.87E+00	4.95E+00	5.09E+00	5.13E+00	5.12E+00
1.2E+00	9.80E-01	2.18E+00	2.43E+00	2.88E+00	3.18E+00	3.60E+00	3.81E+00	4.09E+00	4.24E+00	4.32E+00	4.45E+00	4.49E+00	4.50E+00
1.4E+00	7.50E-01	1.71E+00	1.87E+00	2.32E+00	2.62E+00	3.04E+00	3.25E+00	3.51E+00	3.66E+00	3.73E+00	3.87E+00	3.91E+00	3.91E+00
1.6E+00	5.61E-01	1.29E+00	1.40E+00	1.85E+00	2.15E+00	2.57E+00	2.77E+00	3.01E+00	3.16E+00	3.23E+00	3.37E+00	3.41E+00	3.41E+00
1.8E+00	4.11E-01	9.42E-01	1.02E+00	1.47E+00	1.77E+00	2.18E+00	2.38E+00	2.60E+00	2.75E+00	2.82E+00	2.95E+00	2.99E+00	2.99E+00
2.0E+00	2.97E-01	6.73E-01	7.36E-01	1.18E+00	1.48E+00	1.88E+00	2.07E+00	2.27E+00	2.42E+00	2.49E+00	2.63E+00	2.67E+00	2.67E+00
2.4E+00	1.50E-01	3.29E-01	3.84E-01	8.26E-01	1.12E+00	1.49E+00	1.68E+00	1.83E+00	1.98E+00	2.05E+00	2.18E+00	2.22E+00	2.22E+00
3.0E+00	5.26E-02	1.25E-01	1.79E-01	6.02E-01	8.83E-01	1.21E+00	1.37E+00	1.47E+00	1.62E+00	1.69E+00	1.81E+00	1.85E+00	1.85E+00
4.0E+00	1.38E-02	7.07E-02	1.02E-01	4.73E-01	7.20E-01	9.44E-01	1.06E+00	1.11E+00	1.25E+00	1.32E+00	1.42E+00	1.46E+00	1.46E+00
5.0E+00	1.04E-02	5.77E-02	6.97E-02	3.70E-01	5.71E-01	7.05E-01	7.75E-01	8.01E-01	9.43E-01	1.01E+00	1.10E+00	1.14E+00	1.14E+00
6.0E+00	9.77E-03	3.89E-02	4.38E-02	2.72E-01	4.26E-01	4.98E-01	5.36E-01	5.58E-01	6.94E-01	7.60E-01	8.29E-01	8.67E-01	8.67E-01
7.0E+00	8.22E-03	2.32E-02	2.67E-02	1.93E-01	3.05E-01	3.42E-01	3.62E-01	3.84E-01	5.12E-01	5.74E-01	6.29E-01	6.65E-01	6.65E-01
8.0E+00	6.31E-03	1.35E-02	1.70E-02	1.35E-01	2.14E-01	2.35E-01	2.46E-01	2.66E-01	3.85E-01	4.43E-01	4.84E-01	5.20E-01	5.20E-01
1.0E+01	3.30E-03	5.88E-03	8.48E-03	6.49E-02	1.03E-01	1.16E-01	1.22E-01	1.36E-01	2.32E-01	2.80E-01	3.02E-01	3.36E-01	3.40E-01
1.5E+01	5.53E-04	2.57E-03	3.01E-03	1.20E-02	1.80E-02	2.80E-02	3.30E-02	3.52E-02	8.32E-02	1.09E-01	1.14E-01	1.42E-01	1.40E-01
2.0E+01	1.02E-04	1.14E-03	1.24E-03	2.86E-03	4.02E-03	9.22E-03	1.18E-02	1.25E-02	3.37E-02	4.51E-02	4.85E-02	7.05E-02	7.00E-02
3.0E+01	8.10E-06	1.96E-04	2.74E-04	3.64E-04	4.32E-04	1.31E-03	1.81E-03	2.31E-03	6.11E-03	8.31E-03	1.09E-02	2.27E-02	2.30E-02
4.0E+01	1.78E-06	3.96E-05	7.96E-05	8.86E-05	9.58E-05	2.68E-04	3.74E-04	6.34E-04	1.43E-03	1.93E-03	3.21E-03	9.21E-03	9.30E-03
6.0E+01	2.69E-07	3.19E-06	1.16E-05	1.19E-05	1.21E-05	2.49E-05	3.39E-05	8.79E-05	1.48E-04	1.92E-04	4.72E-04	2.11E-03	2.10E-03
1.0E+02	2.32E-08	1.17E-07	8.77E-07	8.80E-07	8.83E-07	1.24E-06	1.58E-06	6.58E-06	8.38E-06	1.01E-05	3.61E-05	2.30E-04	2.30E-04

E[keV]: 0.00E+00 3.50E-02 6.20E-02 2.26E-01 2.30E-01 3.93E-01 4.10E-01 5.05E-01 2.52E+00 2.63E+00 2.87E+00 2.00E+01


0
1x10-2
1x10-1
1x100
1x101
1x102
1x103
102
101
100
10-1
10-2
0.0
42Mo
Σi Ji(Q)
Q

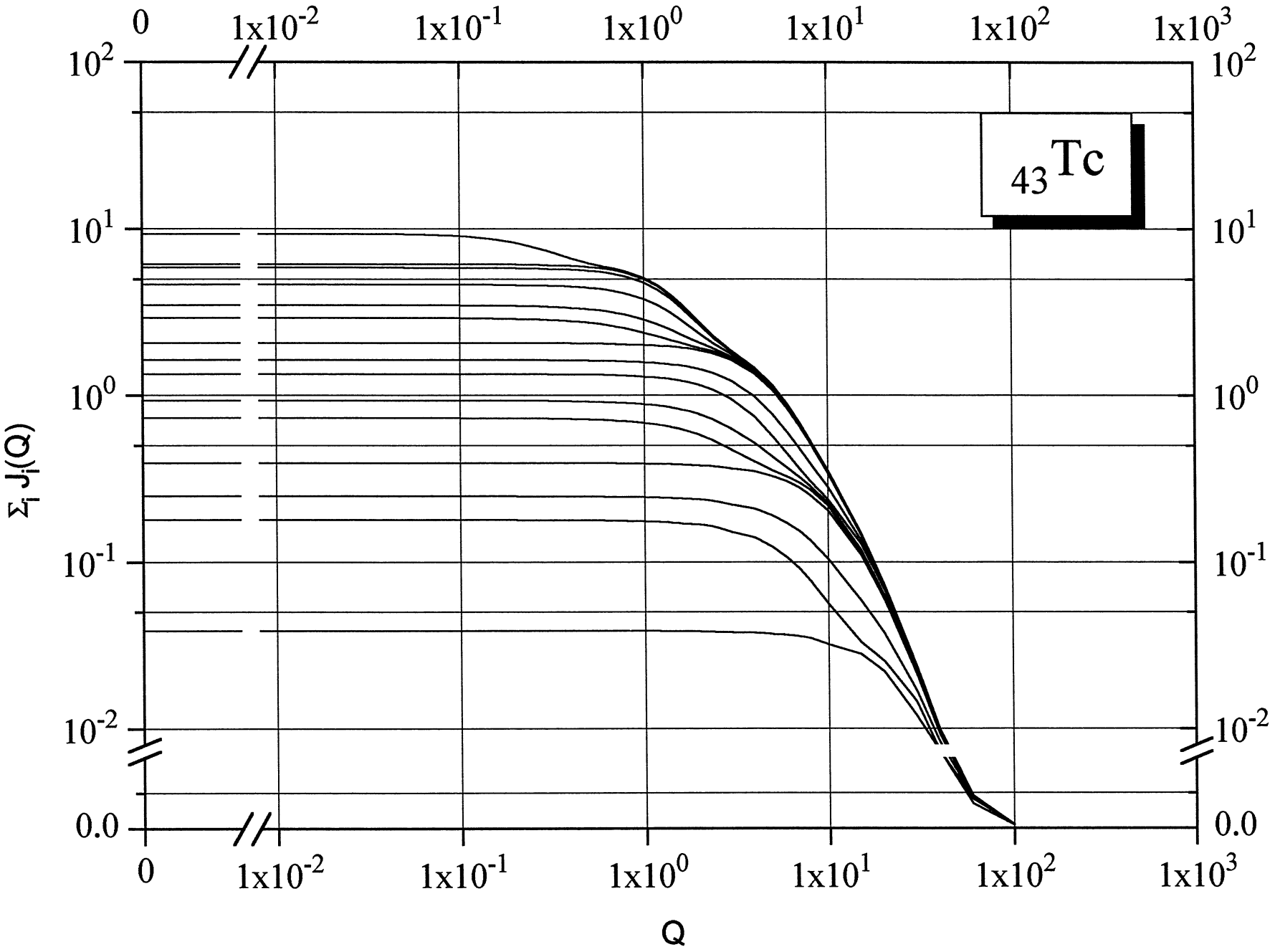
Z=43

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(1)	4f-(2)	Total
0.0E+00	1.93E-02	7.00E-02	3.50E-02	3.61E-02	1.70E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	4.30E-01	2.87E-01	2.91E-01	2.99E-01	3.05E-01	1.62E+00	9.41E+00
5.0E-02	1.93E-02	7.00E-02	3.50E-02	3.61E-02	1.70E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	4.29E-01	2.87E-01	2.91E-01	2.99E-01	3.05E-01	1.58E+00	9.33E+00
1.0E-01	1.93E-02	7.00E-02	3.50E-02	3.61E-02	1.70E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	4.26E-01	2.87E-01	2.91E-01	2.99E-01	3.05E-01	1.46E+00	9.08E+00
1.5E-01	1.93E-02	7.00E-02	3.50E-02	3.61E-02	1.69E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	4.22E-01	2.87E-01	2.91E-01	2.99E-01	3.05E-01	1.28E+00	8.70E+00
2.0E-01	1.93E-02	7.00E-02	3.50E-02	3.61E-02	1.69E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	4.15E-01	2.87E-01	2.91E-01	2.99E-01	3.05E-01	1.06E+00	8.26E+00
3.0E-01	1.93E-02	6.99E-02	3.50E-02	3.61E-02	1.68E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	3.97E-01	2.86E-01	2.90E-01	2.98E-01	3.04E-01	6.43E-01	7.38E+00
4.0E-01	1.93E-02	6.98E-02	3.50E-02	3.61E-02	1.66E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	3.74E-01	2.85E-01	2.89E-01	2.97E-01	3.03E-01	3.34E-01	6.70E+00
5.0E-01	1.93E-02	6.97E-02	3.50E-02	3.61E-02	1.64E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	3.46E-01	2.82E-01	2.85E-01	2.95E-01	3.00E-01	1.58E-01	6.25E+00
6.0E-01	1.93E-02	6.95E-02	3.50E-02	3.61E-02	1.62E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	3.15E-01	2.77E-01	2.80E-01	2.90E-01	2.95E-01	7.84E-02	5.97E+00
7.0E-01	1.93E-02	6.93E-02	3.50E-02	3.61E-02	1.59E-01	1.02E-01	1.04E-01	7.17E-02	7.24E-02	2.82E-01	2.69E-01	2.73E-01	2.82E-01	2.86E-01	5.05E-02	5.76E+00
8.0E-01	1.93E-02	6.91E-02	3.50E-02	3.61E-02	1.56E-01	1.01E-01	1.04E-01	7.17E-02	7.24E-02	2.49E-01	2.60E-01	2.63E-01	2.71E-01	2.73E-01	4.41E-02	5.55E+00
1.0E+00	1.93E-02	6.86E-02	3.50E-02	3.61E-02	1.49E-01	1.01E-01	1.03E-01	7.17E-02	7.24E-02	1.85E-01	2.34E-01	2.36E-01	2.41E-01	2.41E-01	4.29E-02	5.09E+00
1.2E+00	1.93E-02	6.80E-02	3.50E-02	3.61E-02	1.40E-01	1.01E-01	1.03E-01	7.17E-02	7.24E-02	1.31E-01	2.02E-01	2.02E-01	2.04E-01	2.03E-01	3.63E-02	4.57E+00
1.4E+00	1.92E-02	6.73E-02	3.50E-02	3.61E-02	1.31E-01	9.99E-02	1.02E-01	7.16E-02	7.23E-02	8.96E-02	1.66E-01	1.65E-01	1.67E-01	1.64E-01	2.60E-02	4.03E+00
1.6E+00	1.92E-02	6.65E-02	3.50E-02	3.61E-02	1.21E-01	9.88E-02	1.01E-01	7.15E-02	7.22E-02	6.11E-02	1.31E-01	1.29E-01	1.32E-01	1.29E-01	1.67E-02	3.54E+00
1.8E+00	1.92E-02	6.56E-02	3.50E-02	3.61E-02	1.11E-01	9.73E-02	9.92E-02	7.14E-02	7.21E-02	4.33E-02	9.99E-02	9.71E-02	1.02E-01	9.92E-02	1.00E-02	3.12E+00
2.0E+00	1.92E-02	6.47E-02	3.50E-02	3.61E-02	1.00E-01	9.54E-02	9.71E-02	7.11E-02	7.18E-02	3.37E-02	7.35E-02	7.07E-02	7.73E-02	7.47E-02	5.90E-03	2.77E+00
2.4E+00	1.91E-02	6.24E-02	3.49E-02	3.60E-02	8.02E-02	9.04E-02	9.17E-02	7.04E-02	7.10E-02	2.79E-02	3.71E-02	3.51E-02	4.22E-02	4.04E-02	2.58E-03	2.28E+00
3.0E+00	1.90E-02	5.66E-02	3.48E-02	3.59E-02	5.40E-02	8.00E-02	8.05E-02	6.81E-02	6.86E-02	2.71E-02	1.43E-02	1.37E-02	1.57E-02	1.49E-02	2.05E-03	1.86E+00
4.0E+00	1.88E-02	5.11E-02	3.44E-02	3.54E-02	2.55E-02	5.82E-02	5.74E-02	6.09E-02	6.12E-02	1.75E-02	9.39E-03	9.72E-03	3.61E-03	3.46E-03	1.53E-03	1.47E+00
5.0E+00	1.85E-02	4.30E-02	3.36E-02	3.45E-02	1.37E-02	3.70E-02	3.56E-02	5.07E-02	5.06E-02	7.26E-03	8.47E-03	8.52E-03	2.35E-03	2.34E-03	6.59E-04	1.16E+00
6.0E+00	1.82E-02	3.50E-02	3.25E-02	3.33E-02	1.08E-02	2.11E-02	1.98E-02	3.96E-02	3.93E-02	2.84E-03	5.74E-03	5.56E-03	2.30E-03	2.29E-03	2.39E-04	9.93E-01
7.0E+00	1.79E-02	2.76E-02	3.09E-02	3.15E-02	1.06E-02	1.13E-02	1.04E-02	2.95E-02	2.92E-02	1.85E-03	3.19E-03	2.98E-03	2.04E-03	2.01E-03	1.35E-04	6.90E-01
8.0E+00	1.74E-02	2.12E-02	2.90E-02	2.94E-02	1.02E-02	6.16E-03	5.71E-03	2.14E-02	2.10E-02	1.78E-03	1.60E-03	1.46E-03	1.63E-03	1.59E-03	1.26E-04	5.41E-01
1.0E+01	1.60E-02	1.20E-02	2.40E-02	2.50E-02	7.40E-03	3.10E-03	3.10E-03	1.10E-02	1.00E-02	1.50E-03	5.00E-04	4.80E-04	8.80E-04	8.60E-04	1.10E-04	3.50E-01
1.5E+01	1.40E-02	2.50E-03	1.30E-02	1.30E-02	1.30E-03	2.60E-03	2.60E-03	1.80E-03	1.70E-03	2.70E-04	3.50E-04	3.60E-04	1.60E-04	1.50E-04	2.00E-05	1.50E-01
2.0E+01	1.10E-02	1.70E-03	6.10E-03	5.70E-03	3.30E-04	1.40E-03	1.40E-03	3.40E-04	3.20E-04	5.50E-05	2.00E-04	2.00E-04	3.00E-05	2.80E-05	3.90E-06	7.40E-02
3.0E+01	6.00E-03	1.30E-03	1.20E-03	1.10E-03	2.60E-04	2.80E-04	2.50E-04	2.10E-05	1.90E-05	4.20E-05	4.10E-05	3.60E-05	1.80E-06	1.60E-06	3.00E-06	2.40E-02
4.0E+01	3.20E-03	6.80E-04	2.80E-04	2.20E-04	1.40E-04	6.20E-05	5.00E-05	2.20E-06	1.90E-06	2.20E-05	8.80E-06	7.20E-06	1.90E-07	1.60E-07	1.60E-06	9.90E-03
6.0E+01	8.80E-04	1.60E-04	2.60E-05	1.80E-05	3.00E-05	5.40E-06	3.80E-06	7.40E-08	5.90E-08	4.90E-06	7.60E-07	5.40E-07	6.30E-09	5.00E-09	3.40E-07	2.30E-03
1.0E+02	1.10E-04	1.50E-05	1.00E-06	5.30E-07	2.80E-06	2.10E-07	1.10E-07	9.60E-10	6.30E-10	4.50E-07	2.90E-08	1.50E-08	8.30E-11	5.50E-11	3.20E-08	2.60E-04
E[keV]:	2.10E+01	3.04E+00	2.79E+00	2.68E+00	5.44E-01	4.45E-01	4.25E-01	2.57E-01	2.53E-01	6.80E-02	3.90E-02	3.90E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(1)	4f-(2)	Total
0.0E+00	3.86E-02	1.79E-01	2.49E-01	3.93E-01	7.33E-01	9.37E-01	1.35E+00	1.64E+00	2.07E+00	2.93E+00	3.51E+00	4.67E+00	5.87E+00	6.17E+00	9.41E+00	9.41E+00
5.0E-02	3.86E-02	1.79E-01	2.49E-01	3.93E-01	7.33E-01	9.37E-01	1.35E+00	1.64E+00	2.07E+00	2.93E+00	3.51E+00	4.67E+00	5.87E+00	6.17E+00	9.33E+00	9.33E+00
1.0E-01	3.86E-02	1.79E-01	2.49E-01	3.93E-01	7.33E-01	9.37E-01	1.35E+00	1.64E+00	2.07E+00	2.93E+00	3.50E+00	4.66E+00	5.86E+00	6.17E+00	9.09E+00	9.08E+00
1.5E-01	3.86E-02	1.79E-01	2.49E-01	3.93E-01	7.31E-01	9.35E-01	1.35E+00	1.64E+00	2.07E+00	2.92E+00	3.49E+00	4.65E+00	5.85E+00	6.16E+00	8.72E+00	8.70E+00
2.0E-01	3.86E-02	1.79E-01	2.49E-01	3.93E-01	7.31E-01	9.35E-01	1.35E+00	1.64E+00	2.07E+00	2.90E+00	3.48E+00	4.64E+00	5.84E+00	6.14E+00	8.26E+00	8.26E+00
3.0E-01	3.86E-02	1.78E-01	2.48E-01	3.93E-01	7.29E-01	9.33E-01	1.35E+00	1.64E+00	2.07E+00	2.86E+00	3.44E+00	4.60E+00	5.79E+00	6.09E+00	7.38E+00	7.38E+00
4.0E-01	3.86E-02	1.78E-01	2.48E-01	3.93E-01	7.25E-01	9.29E-01	1.34E+00	1.63E+00	2.07E+00	2.81E+00	3.38E+00	4.54E+00	5.73E+00	6.03E+00	6.70E+00	6.70E+00
5.0E-01	3.86E-02	1.78E-01	2.48E-01	3.92E-01	7.20E-01	9.24E-01	1.34E+00	1.63E+00	2.06E+00	2.75E+00	3.32E+00	4.46E+00	5.64E+00	5.94E+00	6.25E+00	6.25E+00
6.0E-01	3.86E-02	1.78E-01	2.48E-01	3.92E-01	7.16E-01	9.20E-01	1.34E+00	1.62E+00	2.06E+00	2.69E+00	3.24E+00	4.36E+00	5.52E+00	5.82E+00	5.97E+00	5.97E+00
7.0E-01	3.86E-02	1.77E-01	2.47E-01	3.92E-01	7.10E-01	9.14E-01	1.33E+00	1.62E+00	2.05E+00	2.61E+00	3.15E+00	4.24E+00	5.37E+00	5.66E+00	5.76E+00	5.76E+00
8.0E-01	3.86E-02	1.77E-01	2.47E-01	3.91E-01	7.03E-01	9.05E-01	1.32E+00	1.61E+00	2.04E+00	2.54E+00	3.06E+00	4.11E+00	5.20E+00	5.47E+00	5.56E+00	5.55E+00
1.0E+00	3.86E-02	1.76E-01	2.46E-01	3.90E-01	6.88E-01	8.90E-01	1.30E+00	1.59E+00	2.02E+00	2.39E+00	2.86E+00	3.81E+00	4.77E+00	5.01E+00	5.10E+00	5.09E+00
1.2E+00	3.86E-02	1.75E-01	2.45E-01	3.89E-01	6.69E-01	8.71E-01	1.28E+00	1.57E+00	2.00E+00	2.27E+00	2.67E+00	3.48E+00	4.29E+00	4.50E+00	4.57E+00	4.57E+00
1.4E+00	3.84E-02	1.73E-01	2.43E-01	3.87E-01	6.49E-01	8.49E-01	1.26E+00	1.54E+00	1.98E+00	2.16E+00	2.49E+00	3.15E+00	3.82E+00	3.98E+00	4.03E+00	4.03E+00
1.6E+00	3.84E-02	1.71E-01	2.41E-01	3.86E-01	6.28E-01	8.25E-01	1.23E+00	1.52E+00	1.95E+00	2.07E+00	2.33E+00	2.85E+00	3.38E+00	3.51E+00	3.54E+00	3.54E+00
1.8E+00	3.84E-02	1.70E-01	2.40E-01	3.84E-01	6.06E-01	8.01E-01	1.20E+00	1.48E+00	1.92E+00	2.00E+00	2.20E+00	2.59E+00	3.00E+00	3.10E+00	3.12E+00	3.12E+00
2.0E+00	3.84E-02	1.68E-01	2.38E-01	3.82E-01	5.82E-01	7.73E-01	1.16E+00	1.45E+00	1.88E+00	1.94E+00	2.09E+00	2.37E+00	2.68E+00	2.76E+00	2.77E+00	2.77E+00
2.4E+00	3.82E-02	1.63E-01	2.33E-01	3.77E-01	5.37E-01	7.18E-01	1.08E+00	1.37E+00	1.79E+00	1.85E+00	1.92E+00	2.06E+00	2.23E+00	2.27E+00	2.28E+00	2.28E+00
2.8E+00	3.78E-02	1.51E-01	2.23E-01	3.68E-01	4.72E-01	6.32E-01	9.54E-01	1.23E+00	1.64E+00	1.70E+00	1.78E+00	1.84E+00	1.91E+00	1.85E+00	1.86E+00	1.86E+00
3.0E+00	3.76E-02	1.40E-01	2.09E-01	3.50E-01	4.01E-01	5.18E-01	7.47E-01	9.91E-01	1.36E+00	1.39E+00	1.41E+00	1.45E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00
3.5E+00	3.70E-02	1.23E-01	1.90E-01	3.28E-01	3.56E-01	4.30E-01	5.72E-01	7.75E-01	1.08E+00	1.09E+00	1.11E+00	1.14E+00	1.15E+00	1.16E+00	1.16E+00	1.16E+00
4.0E+00	3.64E-02	1.06E-01	1.71E-01	3.05E-01	3.26E-01	3.68E-01	4.48E-01	6.06E-01	8.42E-01	8.47E-01	8.59E-01	8.81E-01	8.90E-01	8.93E-01	8.93E-01	8.93E-01
4.5E+00	3.58E-02	9.10E-02	1.53E-01	2.79E-01	3.00E-01	3.23E-01	3.64E-01	4.82E-01	6.57E-01	6.61E-01	6.67E-01	6.79E-01	6.88E-01	6.90E-01	6.90E-01	6.90E-01
5.0E+00	3.48E-02	7.72E-02	1.35E-01	2.53E-01	2.73E-01	2.86E-01	3.08E-01	3.94E-01	5.20E-01	5.24E-01	5.27E-01	5.33E-01	5.39E-01	5.41E-01	5.41E-01	5.41E-01
5.5E+00	3.32E-02	6.60E-02	1.19E-01	2.29E-01	2.47E-01	2.53E-01	2.64E-01	3.26E-01	4.13E-01	4.15E-01	4.16E-01	4.18E-01	4.19E-01	4.19E-01	4.19E-01	4.19E-01
6.0E+00	3.20E-02	5.60E-02	1.04E-01	2.04E-01	2.19E-01	2.25E-01	2.37E-01	2.81E-01	3.41E-01	3.44E-01	3.45E-01	3.47E-01	3.51E-01	3.52E-01	3.52E-01	3.50E-01
6.5E+00	3.04E-02	4.90E-02	9.00E-02	1.81E-01	1.93E-01	1.98E-01	2.06E-01	2.40E-01	2.80E-01	2.82E-01	2.83E-01	2.84E-01	2.85E-01	2.85E-01	2.85E-01	2.85E-01
7.0E+00	2.88E-02	4.30E-02	7.90E-02	1.61E-01	1.70E-01	1.74E-01	1.80E-01	2.01E-01	2.26E-01	2.27E-01	2.28E-01	2.28E-01	2.29E-01	2.29E-01	2.29E-01	2.29E-01
7.5E+00	2.72E-02	3.80E-02	7.00E-02	1.43E-01	1.50E-01	1.53E-01	1.58E-01	1.73E-01	1.90E-01	1.91E-01	1.92E-01	1.92E-01	1.92E-01	1.92E-01	1.92E-01	1.92E-01
8.0E+00	2.56E-02	3.40E-02	6.20E-02	1.27E-01	1.33E-01	1.35E-01	1.39E-01	1.50E-01	1.62E-01	1.63E-01	1.63E-01	1.64E-01	1.64E-01	1.64E-01	1.64E-01	1.64E-01
8.5E+00	2.40E-02	3.00E-02	5.50E-02	1.13E-01	1.18E-01	1.19E-01	1.22E-01	1.30E-01	1.39E-01	1.40E-01	1.40E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01
9.0E+00	2.24E-02	2.70E-02	4.90E-02	1.00E-01	1.04E-01	1.05E-01	1.07E-01	1.13E-01	1.20E-01	1.21E-01	1.21E-01	1.21E-01	1.21E-01	1.21E-01	1.21E-01	1.21E-01
9.5E+00	2.08E-02	2.40E-02	4.30E-02	8.80E-02	9.10E-02	9.20E-02	9.30E-02	9.80E-02	1.03E-01	1.04E-01	1.04E-01	1.04E-01	1.04E-01	1.04E-01	1.04E-01	1.04E-01
1.0E+01	1.92E-02	2.10E-02	3.80E-02	7.70E-02	7.90E-02	8.00E-02	8.10E-02	8.50E-02	8.90E-02	8.90E-02	8.90E-02	8.90E-02	8.90E-02	8.90E-02	8.90E-02	8.90E-02
1.1E+01	1.76E-02	1.80E-02	3.30E-02	6.70E-02	6.90E-02	6.90E-02	7.00E-02	7.30E-02	7.70E-02	7.70E-02	7.70E-02	7.70E-02	7.70E-02	7.70E-02	7.70E-02	7.70E-02
1.2E+01	1.60E-02	1.60E-02	2.90E-02	5.90E-02	6.00E-02	6.00E-02	6.00E-02	6.30E-02	6.60E-02	6.60E-02	6.60E-02	6.60E-02	6.60E-02	6.60E-02	6.60E-02	6.60E-02
1.3E+01	1.44E-02	1.40E-02	2.50E-02	5.10E-02	5.20E-02	5.20E-02	5.20E-02	5.40E-02	5.70E-02	5.70E-02	5.70E-02	5.70E-02	5.70E-02	5.70E-02	5.70E-02	5.70E-02
1.4E+01	1.28E-02	1.20E-02	2.20E-02	4.50E-02	4.60E-02	4.60E-02	4.60E-02	4.80E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02
1.5E+01	1.12E-02	1.00E-02	1.90E-02	3.90E-02	4.00E-02	4.00E-02	4.00E-02	4.10E-02	4.30E-02	4.30E-02	4.30E-02	4.30E-02	4.30E-02	4.30E-02	4.30E-02	4.30E-02
1.6E+01	9.60E-03	8.00E-03	1.60E-02	3.30E-02	3.40E-02	3.40E-02	3.40E-02	3.50E-02	3.70E-02	3.70E-02	3.70E-02	3.70E-02	3.70E-02	3.70E-02	3.70E-02	3.70E-02
1.7E+01	8.00E-03	6.00E-03	1.30E-02	2.70E-02	2.80E-02	2.80E-02	2.80E-02	2.90E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02
1.8E+01	6.40E-03	4.80E-03	1.00E-02	2.20E-02	2.20E-02	2.20E-02	2.20E-02	2.30E-02	2.40E-02	2.40E-02	2.40E-02	2.40E-02	2.40E-02	2.40E-02	2.40E-02	2.40E-02
1.9E+01	5.00E-03	3.60E-03	7.90E-03	1.70E-02	1.70E-02	1.70E-02	1.70E-02	1.80E-02	1.80E-02	1.80E-02	1.80E-02	1.80E-02	1.80E-02	1.80E-02	1.80E-02	1.80E-02
2.0E+01	3.80E-03	2.60E-03	5.90E-03	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.30E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02
2.1E+01	2.80E-03	1.80E-03	4.30E-03	9.70E-03	9.70E-03	9.70E-03	9.70E-03	9.80E-03	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02
2.2E+01	1.90E-03	1.20E-03	3.00E-03	6.90E-03	6.90E-03	6.90E-03	6.90E-03	7.00E-03	7.10E-03	7.10E-03	7.10E-03	7.10E-03	7.10E-03	7.10E-03	7.10E-03	7.10E-03
2.3E+01	1.20E-03	7.60E-04	1.90E-03	4.60E-03	4.60E-03	4.60E-03	4.60E-03	4.60E-03	4.70E-03	4.70E-03	4.70E-03	4.70E-03	4.70E-03	4.70E-03	4.70E-03	4.70E-03
2.4E+01	7.20E-04	4.60E-04	1.20E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03	2.90E-03
2.5E+01	4.20E-04	2.70E-04	7.00E-04	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03
2.6E+01	2.40E-04	1.50E-04	4.00E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04	9.70E-04
2.7E+01	1.30E-04	8.30E-05	2.20E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04
2.8E+01	6.90E-05	4.40E-05	1.20E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04	2.90E-04
2.9E+01	3.60E-05	2.30E-05	6.20E-05	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04
3.0E+01	1.90E-05	1.20E-05	3.20E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05	7.80E-05
3.1E+01	9.60E-06	6.10E-06	1.60E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05
3.2E+01	4.80E-06	3.00E-06	8.10E-06	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05
3.3E+01	2.30E-06	1.50E-06	4.00E-06	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
3.4E+01	1.10E-06	7.40E-07	2.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06	5.00E-06
3.5E+01	5.30E-07	3.60E-07	9.80E-07	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06	2.50E-06
3.6E+01	2.50E-07	1.70E-07	4.70E-07	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06
3.7E+01	1.20E-07	8.10E-08	2.30E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07	6.00E-07
3.8E+01	5.70E-08	3.90E-08	1.10E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07	2.90E-07
3.9E+01	2.70E-08	1.80E-08	5.20E-08	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07	1.40E-07
4.0E+01	1.20E-08	8.50E-09	2.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08
4.1E+01	5.50E-09	3.80E-09	1.10E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08	2.90E-08
4.2E+01	2.50E-09	1.70E-09	4.90E-09	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08
4.3E+01	1.10E-09	7.60E-10	2.20E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09	5.80E-09
4.4E+01	5.00E-10	3.40E-10	1.00E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09	2.60E-09
4.5E+01	2.20E-10	1.50E-10	4.40E-10	1.20E-09	1.20E-09	1.20E-09	1.20E-09	1.20E-09	1.20E-09	1.20E-09	1.20E-09	1.20E-09	1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43Tc
Σi Ji(Q)
Q

Z=44

Compton profiles for the single orbitals and binding energies

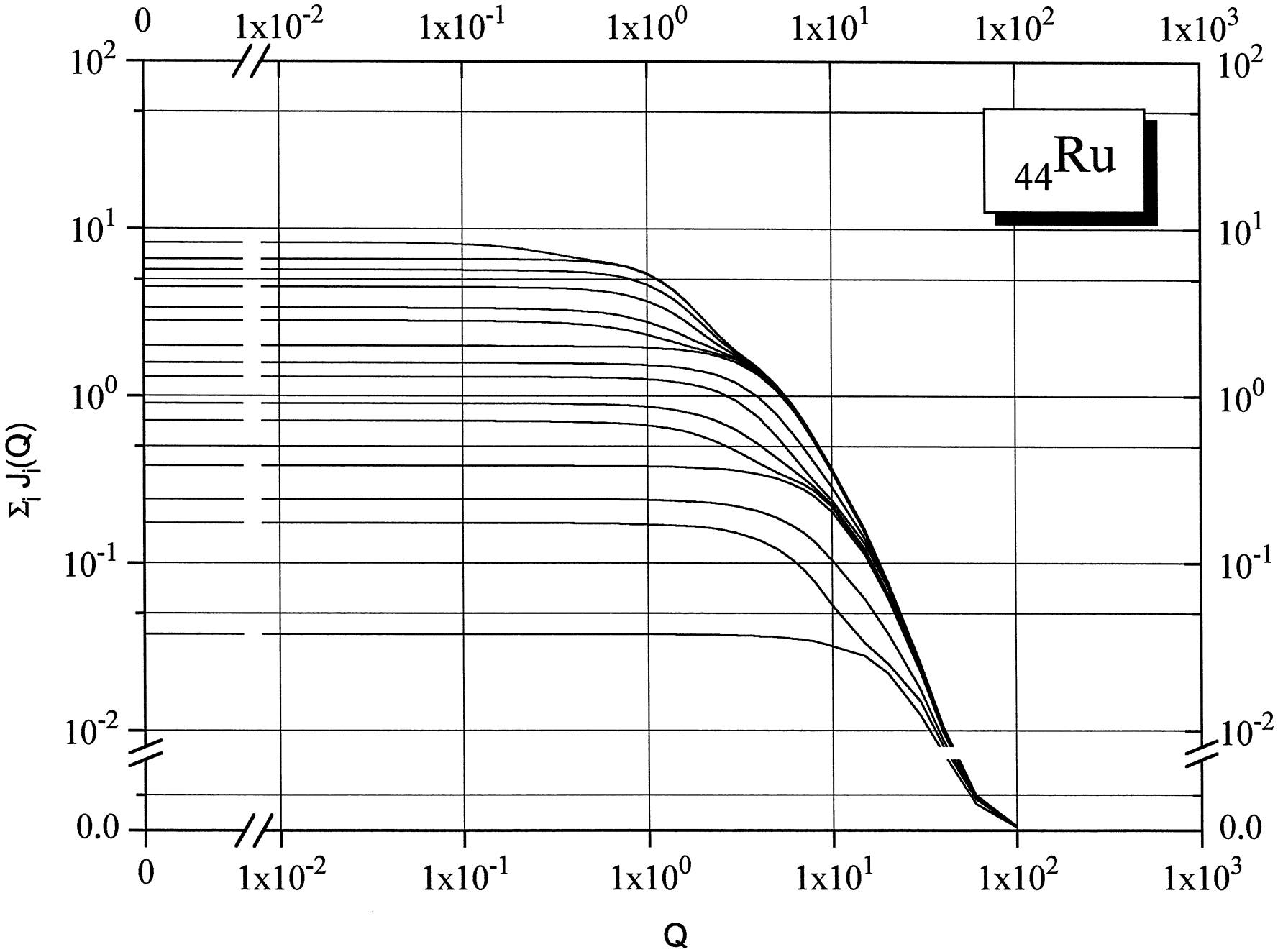
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(3)	4f-(1)	Total
0.0E+00	1.88E-02	6.82E-02	3.41E-02	3.52E-02	1.64E-01	9.82E-02	1.01E-01	6.90E-02	6.97E-02	4.16E-01	2.76E-01	2.81E-01	2.96E-01	3.03E-01	1.74E+00	8.34E+00
5.0E-02	1.88E-02	6.82E-02	3.41E-02	3.52E-02	1.64E-01	9.82E-02	1.01E-01	6.90E-02	6.97E-02	4.15E-01	2.76E-01	2.81E-01	2.96E-01	3.03E-01	1.69E+00	8.29E+00
1.0E-01	1.88E-02	6.82E-02	3.41E-02	3.52E-02	1.64E-01	9.82E-02	1.01E-01	6.90E-02	6.97E-02	4.12E-01	2.76E-01	2.81E-01	2.96E-01	3.03E-01	1.54E+00	8.14E+00
1.5E-01	1.88E-02	6.81E-02	3.41E-02	3.52E-02	1.64E-01	9.82E-02	1.01E-01	6.90E-02	6.97E-02	4.08E-01	2.76E-01	2.81E-01	2.96E-01	3.03E-01	1.33E+00	7.92E+00
2.0E-01	1.88E-02	6.81E-02	3.41E-02	3.52E-02	1.63E-01	9.82E-02	1.01E-01	6.90E-02	6.97E-02	4.02E-01	2.76E-01	2.81E-01	2.96E-01	3.03E-01	1.09E+00	7.66E+00
3.0E-01	1.88E-02	6.81E-02	3.41E-02	3.52E-02	1.62E-01	9.82E-02	1.01E-01	6.90E-02	6.97E-02	3.86E-01	2.75E-01	2.81E-01	2.96E-01	3.02E-01	6.24E-01	7.16E+00
4.0E-01	1.88E-02	6.80E-02	3.41E-02	3.52E-02	1.61E-01	9.82E-02	1.00E-01	6.90E-02	6.97E-02	3.65E-01	2.74E-01	2.79E-01	2.94E-01	3.01E-01	3.04E-01	6.78E+00
5.0E-01	1.88E-02	6.78E-02	3.41E-02	3.52E-02	1.59E-01	9.81E-02	1.00E-01	6.90E-02	6.97E-02	3.39E-01	2.71E-01	2.76E-01	2.92E-01	2.98E-01	1.35E-01	6.51E+00
6.0E-01	1.88E-02	6.77E-02	3.41E-02	3.52E-02	1.57E-01	9.81E-02	1.00E-01	6.90E-02	6.97E-02	3.10E-01	2.67E-01	2.72E-01	2.86E-01	2.91E-01	6.39E-02	6.31E+00
7.0E-01	1.88E-02	6.75E-02	3.41E-02	3.52E-02	1.54E-01	9.81E-02	1.00E-01	6.90E-02	6.97E-02	2.79E-01	2.61E-01	2.65E-01	2.77E-01	2.81E-01	4.11E-02	6.12E+00
8.0E-01	1.88E-02	6.73E-02	3.41E-02	3.52E-02	1.52E-01	9.80E-02	1.00E-01	6.90E-02	6.97E-02	2.48E-01	2.52E-01	2.56E-01	2.66E-01	2.69E-01	3.65E-02	5.91E+00
1.0E+00	1.88E-02	6.69E-02	3.41E-02	3.52E-02	1.45E-01	9.78E-02	1.00E-01	6.90E-02	6.96E-02	1.88E-01	2.30E-01	2.32E-01	2.36E-01	2.36E-01	3.55E-02	5.41E+00
1.2E+00	1.88E-02	6.63E-02	3.41E-02	3.52E-02	1.37E-01	9.73E-02	9.96E-02	6.90E-02	6.96E-02	1.35E-01	2.01E-01	2.01E-01	2.00E-01	1.99E-01	2.96E-02	4.84E+00
1.4E+00	1.88E-02	6.57E-02	3.41E-02	3.52E-02	1.29E-01	9.67E-02	9.88E-02	6.89E-02	6.96E-02	9.44E-02	1.68E-01	1.67E-01	1.65E-01	1.62E-01	2.12E-02	4.28E+00
1.6E+00	1.87E-02	6.49E-02	3.40E-02	3.52E-02	1.19E-01	9.57E-02	9.78E-02	6.89E-02	6.95E-02	6.50E-02	1.36E-01	1.33E-01	1.32E-01	1.29E-01	1.38E-02	3.75E+00
1.8E+00	1.87E-02	6.41E-02	3.40E-02	3.52E-02	1.10E-01	9.45E-02	9.64E-02	6.87E-02	6.94E-02	4.60E-02	1.06E-01	1.02E-01	1.04E-01	1.01E-01	8.41E-03	3.30E+00
2.0E+00	1.87E-02	6.32E-02	3.40E-02	3.51E-02	1.00E-01	9.29E-02	9.46E-02	6.86E-02	6.92E-02	3.50E-02	7.96E-02	7.61E-02	7.98E-02	7.70E-02	5.06E-03	2.92E+00
2.4E+00	1.87E-02	6.11E-02	3.40E-02	3.51E-02	8.11E-02	8.85E-02	8.98E-02	6.79E-02	6.85E-02	2.74E-02	4.20E-02	3.93E-02	4.55E-02	4.34E-02	2.15E-03	2.36E+00
3.0E+00	1.86E-02	5.75E-02	3.39E-02	3.50E-02	5.58E-02	7.92E-02	7.98E-02	6.61E-02	6.66E-02	2.66E-02	1.62E-02	1.52E-02	1.81E-02	1.71E-02	1.57E-03	1.88E+00
4.0E+00	1.84E-02	5.06E-02	3.35E-02	3.46E-02	2.71E-02	5.92E-02	5.85E-02	6.00E-02	6.03E-02	1.87E-02	9.23E-03	9.49E-03	4.15E-03	3.93E-03	1.27E-03	1.47E+00
5.0E+00	1.81E-02	4.29E-02	3.28E-02	3.38E-02	1.43E-02	3.89E-02	3.75E-02	5.09E-02	5.09E-02	8.39E-03	8.68E-03	8.72E-03	2.27E-03	2.24E-03	6.00E-04	1.17E+00
6.0E+00	1.78E-02	3.53E-02	3.18E-02	3.26E-02	1.08E-02	2.29E-02	2.16E-02	4.06E-02	4.04E-02	3.29E-03	6.29E-03	6.07E-03	2.21E-03	2.19E-03	2.25E-04	9.18E-01
7.0E+00	1.75E-02	2.82E-02	3.04E-02	3.11E-02	1.04E-02	1.26E-02	1.16E-02	3.09E-02	3.06E-02	1.92E-03	3.69E-03	3.43E-03	2.03E-03	2.00E-03	1.14E-04	7.15E-01
8.0E+00	1.71E-02	2.19E-02	2.86E-02	2.91E-02	1.02E-02	6.91E-03	6.36E-03	2.27E-02	2.24E-02	1.77E-03	1.93E-03	1.74E-03	1.68E-03	1.64E-03	9.95E-05	5.63E-01
1.0E+01	1.60E-02	1.20E-02	2.40E-02	2.50E-02	7.70E-03	3.20E-03	3.20E-03	1.20E-02	1.10E-02	1.50E-03	5.70E-04	5.40E-04	9.60E-04	9.20E-04	8.90E-05	3.70E-01
1.5E+01	1.40E-02	2.70E-03	1.40E-02	1.30E-02	1.50E-03	2.60E-03	2.70E-03	2.10E-03	2.00E-03	3.20E-04	3.60E-04	3.70E-04	1.80E-04	1.70E-04	1.90E-05	1.60E-01
2.0E+01	1.10E-02	1.60E-03	6.50E-03	6.00E-03	3.40E-04	1.50E-03	1.50E-03	4.10E-04	3.90E-04	6.00E-05	2.20E-04	2.10E-04	3.60E-05	3.30E-05	3.40E-06	7.70E-02
3.0E+01	6.20E-03	1.30E-03	1.30E-03	1.20E-03	2.60E-04	3.20E-04	2.80E-04	2.60E-05	2.30E-05	4.40E-05	4.70E-05	4.20E-05	2.20E-06	2.00E-06	2.40E-06	2.50E-02
4.0E+01	3.30E-03	7.20E-04	3.20E-04	2.50E-04	1.50E-04	7.20E-05	5.80E-05	2.80E-06	2.40E-06	2.40E-05	1.10E-05	8.50E-06	2.40E-07	2.00E-07	1.40E-06	1.00E-02
6.0E+01	9.40E-04	1.70E-04	3.00E-05	2.10E-05	3.30E-05	6.40E-06	4.50E-06	9.40E-08	7.50E-08	5.50E-06	9.30E-07	6.50E-07	8.00E-09	6.30E-09	3.10E-07	2.50E-03
1.0E+02	1.20E-04	1.70E-05	1.20E-06	6.20E-07	3.20E-06	2.50E-07	1.30E-07	1.20E-09	8.10E-10	5.20E-07	3.60E-08	1.90E-08	1.10E-10	6.90E-11	2.90E-08	2.80E-04
E[keV]:	2.21E+01	3.22E+00	2.97E+00	2.84E+00	5.85E-01	4.83E-01	4.61E-01	2.84E-01	2.79E-01	7.50E-02	4.30E-02	4.30E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(3)	4f-(1)	Total
0.0E+00	3.76E-02	1.74E-01	2.42E-01	3.83E-01	7.11E-01	9.07E-01	1.31E+00	1.59E+00	2.01E+00	2.84E+00	3.39E+00	4.51E+00	5.70E+00	6.61E+00	8.35E+00	8.34E+00
5.0E-02	3.76E-02	1.74E-01	2.42E-01	3.83E-01	7.11E-01	9.07E-01	1.31E+00	1.59E+00	2.01E+00	2.84E+00	3.39E+00	4.51E+00	5.70E+00	6.60E+00	8.29E+00	8.29E+00
1.0E-01	3.76E-02	1.74E-01	2.42E-01	3.83E-01	7.11E-01	9.07E-01	1.31E+00	1.59E+00	2.01E+00	2.83E+00	3.38E+00	4.51E+00	5.69E+00	6.60E+00	8.14E+00	8.14E+00
1.5E-01	3.76E-02	1.74E-01	2.42E-01	3.83E-01	7.11E-01	9.07E-01	1.31E+00	1.59E+00	2.01E+00	2.82E+00	3.37E+00	4.50E+00	5.68E+00	6.59E+00	7.92E+00	7.92E+00
2.0E-01	3.76E-02	1.74E-01	2.42E-01	3.83E-01	7.09E-01	9.05E-01	1.31E+00	1.59E+00	2.00E+00	2.81E+00	3.36E+00	4.48E+00	5.67E+00	6.58E+00	7.67E+00	7.66E+00
3.0E-01	3.76E-02	1.74E-01	2.42E-01	3.83E-01	7.07E-01	9.03E-01	1.31E+00	1.58E+00	2.00E+00	2.77E+00	3.32E+00	4.45E+00	5.63E+00	6.54E+00	7.16E+00	7.16E+00
4.0E-01	3.76E-02	1.74E-01	2.42E-01	3.83E-01	7.05E-01	9.01E-01	1.30E+00	1.58E+00	2.00E+00	2.73E+00	3.27E+00	4.39E+00	5.57E+00	6.47E+00	6.77E+00	6.78E+00
5.0E-01	3.76E-02	1.73E-01	2.41E-01	3.82E-01	7.00E-01	8.96E-01	1.30E+00	1.57E+00	1.99E+00	2.67E+00	3.21E+00	4.31E+00	5.48E+00	6.38E+00	6.51E+00	6.51E+00
6.0E-01	3.76E-02	1.73E-01	2.41E-01	3.82E-01	6.96E-01	8.92E-01	1.29E+00	1.57E+00	1.99E+00	2.61E+00	3.14E+00	4.23E+00	5.37E+00	6.25E+00	6.31E+00	6.31E+00
7.0E-01	3.76E-02	1.73E-01	2.41E-01	3.82E-01	6.90E-01	8.86E-01	1.29E+00	1.56E+00	1.98E+00	2.54E+00	3.06E+00	4.12E+00	5.23E+00	6.07E+00	6.11E+00	6.12E+00
8.0E-01	3.76E-02	1.72E-01	2.40E-01	3.81E-01	6.85E-01	8.81E-01	1.28E+00	1.56E+00	1.98E+00	2.47E+00	2.98E+00	4.00E+00	5.06E+00	5.87E+00	5.91E+00	5.91E+00
1.0E+00	3.76E-02	1.71E-01	2.40E-01	3.80E-01	6.70E-01	8.66E-01	1.27E+00	1.54E+00	1.96E+00	2.34E+00	2.80E+00	3.72E+00	4.67E+00	5.38E+00	5.41E+00	5.41E+00
1.2E+00	3.76E-02	1.70E-01	2.39E-01	3.79E-01	6.53E-01	8.48E-01	1.25E+00	1.52E+00	1.94E+00	2.21E+00	2.61E+00	3.42E+00	4.22E+00	4.81E+00	4.84E+00	4.84E+00
1.4E+00	3.76E-02	1.69E-01	2.37E-01	3.78E-01	6.36E-01	8.29E-01	1.22E+00	1.50E+00	1.92E+00	2.11E+00	2.44E+00	3.17E+00	4.26E+00	4.26E+00	4.28E+00	4.28E+00
1.6E+00	3.74E-02	1.67E-01	2.35E-01	3.76E-01	6.14E-01	8.05E-01	1.20E+00	1.47E+00	1.89E+00	2.02E+00	2.29E+00	2.82E+00	3.35E+00	3.74E+00	3.75E+00	3.75E+00
1.8E+00	3.74E-02	1.66E-01	2.34E-01	3.74E-01	5.94E-01	7.83E-01	1.17E+00	1.44E+00	1.86E+00	1.95E+00	2.16E+00	2.57E+00	2.99E+00	3.29E+00	3.30E+00	3.30E+00
2.0E+00	3.74E-02	1.64E-01	2.32E-01	3.72E-01	5.72E-01	7.58E-01	1.14E+00	1.41E+00	1.83E+00	1.90E+00	2.06E+00	2.36E+00	2.68E+00	2.91E+00	2.91E+00	2.92E+00
2.4E+00	3.74E-02	1.60E-01	2.28E-01	3.68E-01	5.30E-01	7.07E-01	1.07E+00	1.34E+00	1.75E+00	1.80E+00	1.89E+00	2.05E+00	2.23E+00	2.36E+00	2.36E+00	2.36E+00
3.0E+00	3.72E-02	1.52E-01	2.20E-01	3.60E-01	4.72E-01	6.30E-01	9.49E-01	1.21E+00	1.61E+00	1.67E+00	1.70E+00	1.76E+00	1.83E+00	1.88E+00	1.88E+00	1.88E+00
4.0E+00	3.68E-02	1.38E-01	2.05E-01	3.43E-01	3.98E-01	5.16E-01	7.50E-01	9.90E-01	1.35E+00	1.39E+00	1.41E+00	1.45E+00	1.46E+00	1.47E+00	1.48E+00	1.47E+00
5.0E+00	3.62E-02	1.22E-01	1.88E-01	3.23E-01	3.51E-01	4.29E-01	5.79E-01	7.83E-01	1.09E+00	1.10E+00	1.12E+00	1.16E+00	1.17E+00	1.17E+00	1.17E+00	1.17E+00
6.0E+00	3.56E-02	1.06E-01	1.70E-01	3.00E-01	3.22E-01	3.68E-01	4.54E-01	6.16E-01	8.59E-01	8.65E-01	8.78E-01	9.02E-01	9.11E-01	9.18E-01	9.18E-01	9.18E-01
7.0E+00	3.50E-02	9.14E-02	1.52E-01	2.77E-01	2.97E-01	3.23E-01	3.69E-01	4.93E-01	6.76E-01	6.80E-01	6.87E-01	7.01E-01	7.09E-01	7.15E-01	7.15E-01	7.15E-01
8.0E+00	3.42E-02	7.80E-02	1.35E-01	2.52E-01	2.72E-01	2.86E-01	3.11E-01	4.02E-01	5.36E-01	5.40E-01	5.44E-01	5.51E-01	5.58E-01	5.62E-01	5.63E-01	5.63E-01
1.0E+01	3.20E-02	5.60E-02	1.04E-01	2.19E-01	2.26E-01	2.39E-01	2.56E-01	3.15E-01	3.62E-01	3.66E-01	3.67E-01	3.68E-01	3.68E-01	3.68E-01	3.68E-01	3.70E-01
1.5E+01	2.80E-02	3.34E-02	6.14E-02	1.13E-01	1.16E-01	1.22E-01	1.32E-01	1.41E-01	1.53E-01	1.53E-01	1.54E-01	1.56E-01	1.56E-01	1.57E-01	1.57E-01	1.60E-01
2.0E+01	2.20E-02	2.52E-02	3.82E-02	6.22E-02	6.29E-02	6.59E-02	7.19E-02	7.35E-02	7.59E-02	7.60E-02	7.64E-02	7.73E-02	7.74E-02	7.75E-02	7.75E-02	7.70E-02
3.0E+01	1.24E-02	1.50E-02	1.76E-02	2.24E-02	2.29E-02	2.36E-02	2.47E-02	2.48E-02	2.49E-02	2.50E-02	2.51E-02	2.53E-02	2.53E-02	2.53E-02	2.53E-02	2.50E-02
4.0E+01	6.60E-03	8.04E-03	8.68E-03	9.68E-03	9.98E-03	1.01E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02	1.00E-02
6.0E+01	1.88E-03	2.22E-03	2.28E-03	2.36E-03	2.43E-03	2.44E-03	2.46E-03	2.46E-03	2.46E-03	2.47E-03	2.47E-03	2.48E-03	2.48E-03	2.48E-03	2.48E-03	2.50E-03
1.0E+02	2.40E-04	2.74E-04	2.76E-04	2.79E-04	2.85E-04	2.86E-04	2.86E-04	2.86E-04	2.86E-04	2.87E-04	2.87E-04	2.87E-04	2.87E-04	2.87E-04	2.88E-04	2.80E-04
E[keV]:	2.21E+01	3.22E+00	2.97E+00	2.84E+00	5.85E-01	4.83E-01	4.61E-01	2.84E-01	2.79E-01	7.50E-02	4.30E-02	4.30E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																
0.0E+00	3.83E+00	5.51E+00	6.34E+00	6.76E+00	7.04E+00	7.44E+00	7.64E+00	7.96E+00	8.10E+00	8.17E+00	8.31E+00	8.35E+00	8.34E+00			
5.0E-02	3.78E+00	5.46E+00	6.29E+00	6.71E+00	6.98E+00	7.39E+00	7.58E+00	7.91E+00	8.05E+00	8.12E+00	8.26E+00	8.29E+00	8.29E+00			
1.0E-01	3.63E+00	5.31E+00	6.13E+00	6.55E+00	6.83E+00	7.23E+00	7.43E+00	7.76E+00	7.90E+00	7.96E+00	8.10E+00	8.14E+00	8.14E+00			
1.5E-01	3.42E+00	5.10E+00	5.92E+00	6.33E+00	6.61E+00	7.01E+00	7.21E+00	7.54E+00	7.68E+00	7.75E+00	7.88E+00	7.92E+00	7.92E+00			
2.0E-01	3.18E+00	4.86E+00	5.66E+00	6.08E+00	6.36E+00	6.76E+00	6.96E+00	7.28E+00	7.42E+00	7.49E+00	7.63E+00	7.67E+00	7.66E+00			
3.0E-01	2.71E+00	4.39E+00	5.16E+00	5.58E+00	5.85E+00	6.26E+00	6.45E+00	6.78E+00	6.92E+00	6.99E+00	7.12E+00	7.16E+00	7.16E+00			
4.0E-01	2.38E+00	4.05E+00	4.78E+00	5.20E+00	5.47E+00	5.87E+00	6.07E+00	6.39E+00	6.53E+00	6.60E+00	6.73E+00	6.77E+00	6.78E+00			
5.0E-01	2.20E+00	3.84E+00	4.52E+00	4.94E+00	5.22E+00	5.62E+00	5.81E+00	6.13E+00	6.27E+00	6.34E+00	6.47E+00	6.51E+00	6.51E+00			
6.0E-01	2.08E+00	3.70E+00	4.32E+00	4.74E+00	5.02E+00	5.42E+00	5.61E+00	5.93E+00	6.07E+00	6.14E+00	6.27E+00	6.31E+00	6.31E+00			
7.0E-01	1.99E+00	3.57E+00	4.13E+00	4.55E+00	4.83E+00	5.23E+00	5.42E+00	5.73E+00	5.87E+00	5.94E+00	6.07E+00	6.11E+00	6.12E+00			
8.0E-01	1.91E+00	3.44E+00	3.93E+00	4.35E+00	4.63E+00	5.03E+00	5.22E+00	5.53E+00	5.67E+00	5.73E+00	5.87E+00	5.91E+00	5.91E+00			
1.0E+00	1.69E+00	3.08E+00	3.45E+00	3.87E+00	4.15E+00	4.55E+00	4.74E+00	5.03E+00	5.17E+00	5.24E+00	5.37E+00	5.41E+00	5.41E+00			
1.2E+00	1.43E+00	2.63E+00	2.90E+00	3.32E+00	3.60E+00	3.99E+00	4.19E+00	4.46E+00	4.60E+00	4.67E+00	4.80E+00	4.84E+00	4.84E+00			
1.4E+00	1.17E+00	2.17E+00	2.36E+00	2.78E+00	3.05E+00	3.45E+00	3.64E+00	3.90E+00	4.04E+00	4.11E+00	4.24E+00	4.28E+00	4.28E+00			
1.6E+00	9.29E-01	1.73E+00	1.86E+00	2.28E+00	2.56E+00	2.95E+00	3.14E+00	3.38E+00	3.52E+00	3.58E+00	3.71E+00	3.75E+00	3.75E+00			
1.8E+00	7.27E-01	1.35E+00	1.44E+00	1.86E+00	2.13E+00	2.52E+00	2.71E+00	2.93E+00	3.07E+00	3.13E+00	3.26E+00	3.30E+00	3.30E+00			
2.0E+00	5.55E-01	1.02E+00	1.09E+00	1.50E+00	1.78E+00	2.16E+00	2.34E+00	2.54E+00	2.68E+00	2.75E+00	2.88E+00	2.91E+00	2.92E+00			
2.4E+00	3.14E-01	5.56E-01	6.10E-01	1.02E+00	1.29E+00	1.65E+00	1.83E+00	1.99E+00	2.13E+00	2.20E+00	2.32E+00	2.36E+00	2.36E+00			
3.0E+00	1.25E-01	2.18E-01	2.72E-01	6.71E-01	9.36E-01	1.25E+00	1.41E+00	1.52E+00	1.66E+00	1.73E+00	1.85E+00	1.88E+00	1.88E+00			
4.0E+00	2.97E-02	8.61E-02	1.23E-01	4.85E-01	7.25E-01	9.59E-01	1.08E+00	1.13E+00	1.27E+00	1.34E+00	1.44E+00	1.48E+00	1.47E+00			
5.0E+00	1.64E-02	6.86E-02	8.54E-02	3.91E-01	5.94E-01	7.44E-01	8.22E-01	8.51E-01	9.86E-01	1.05E+00	1.14E+00	1.17E+00	1.17E+00			
6.0E+00	1.56E-02	5.25E-02	5.91E-02	3.01E-01	4.64E-01	5.50E-01	5.96E-01	6.18E-01	7.48E-01	8.12E-01	8.82E-01	9.18E-01	9.18E-01			
7.0E+00	1.42E-02	3.53E-02	3.92E-02	2.23E-01	3.46E-01	3.93E-01	4.18E-01	4.39E-01	5.63E-01	6.24E-01	6.80E-01	7.15E-01	7.15E-01			
8.0E+00	1.17E-02	2.26E-02	2.61E-02	1.60E-01	2.51E-01	2.77E-01	2.91E-01	3.11E-01	4.27E-01	4.85E-01	5.28E-01	5.63E-01	5.63E-01			
1.0E+01	6.69E-03	9.99E-03	1.30E-02	7.90E-02	1.27E-01	1.40E-01	1.46E-01	1.62E-01	2.62E-01	3.10E-01	3.34E-01	3.66E-01	3.70E-01			
1.5E+01	1.25E-03	3.45E-03	4.09E-03	1.61E-02	2.45E-02	3.53E-02	4.05E-02	4.35E-02	9.55E-02	1.23E-01	1.29E-01	1.57E-01	1.60E-01			
2.0E+01	2.46E-04	1.53E-03	1.65E-03	3.99E-03	5.63E-03	1.16E-02	1.46E-02	1.53E-02	3.93E-02	5.23E-02	5.55E-02	7.75E-02	7.70E-02			
3.0E+01	1.72E-05	2.79E-04	3.67E-04	5.05E-04	6.09E-04	1.73E-03	2.37E-03	2.89E-03	7.69E-03	1.03E-02	1.29E-02	2.53E-02	2.50E-02			
4.0E+01	2.96E-06	5.90E-05	1.07E-04	1.21E-04	1.33E-04	3.65E-04	5.09E-04	8.09E-04	1.81E-03	2.45E-03	3.89E-03	1.05E-02	1.00E-02			
6.0E+01	3.61E-07	4.82E-06	1.58E-05	1.63E-05	1.66E-05	3.46E-05	4.74E-05	1.13E-04	1.97E-04	2.57E-04	5.97E-04	2.48E-03	2.50E-03			
1.0E+02	2.96E-08	1.78E-07	1.22E-06	1.22E-06	1.23E-06	1.75E-06	2.25E-06	8.65E-06	1.11E-05	1.35E-05	4.75E-05	2.88E-04	2.80E-04			
E[keV]:	0.00E+00	4.30E-02	7.50E-02	2.79E-01	2.84E-01	4.61E-01	4.83E-01	5.85E-01	2.84E+00	2.97E+00	3.22E+00	2.21E+01				


0
1x10-2
1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
44Ru
Σi Ji(Q)
Q

Z=45

Compton profiles for the single orbitals and binding energies

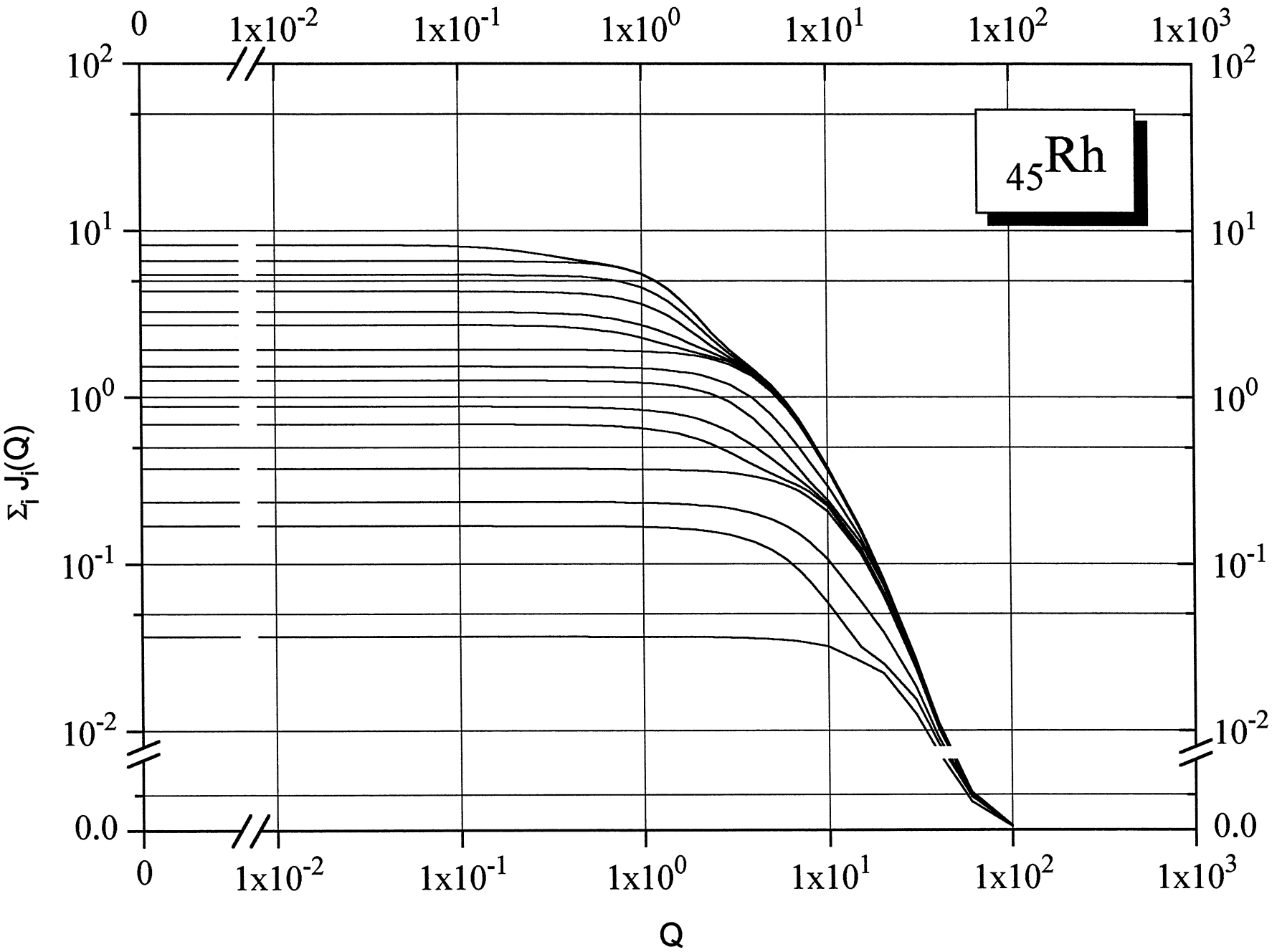
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(4)	4f-(1)	Total
0.0E+00	1.84E-02	6.64E-02	3.32E-02	3.43E-02	1.59E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.99E-01	2.63E-01	2.70E-01	2.77E-01	2.83E-01	1.70E+00	8.28E+00
5.0E-02	1.84E-02	6.64E-02	3.32E-02	3.43E-02	1.59E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.98E-01	2.63E-01	2.70E-01	2.77E-01	2.83E-01	1.65E+00	8.23E+00
1.0E-01	1.84E-02	6.64E-02	3.32E-02	3.43E-02	1.59E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.96E-01	2.63E-01	2.70E-01	2.77E-01	2.83E-01	1.52E+00	8.09E+00
1.5E-01	1.84E-02	6.64E-02	3.32E-02	3.43E-02	1.59E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.92E-01	2.63E-01	2.70E-01	2.77E-01	2.83E-01	1.32E+00	7.88E+00
2.0E-01	1.84E-02	6.63E-02	3.32E-02	3.43E-02	1.58E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.87E-01	2.63E-01	2.69E-01	2.77E-01	2.83E-01	1.09E+00	7.64E+00
3.0E-01	1.84E-02	6.63E-02	3.32E-02	3.43E-02	1.57E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.72E-01	2.63E-01	2.69E-01	2.77E-01	2.83E-01	6.38E-01	7.16E+00
4.0E-01	1.84E-02	6.62E-02	3.32E-02	3.43E-02	1.56E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.53E-01	2.62E-01	2.68E-01	2.76E-01	2.82E-01	3.19E-01	6.78E+00
5.0E-01	1.84E-02	6.61E-02	3.32E-02	3.43E-02	1.54E-01	9.49E-02	9.73E-02	6.65E-02	6.71E-02	3.30E-01	2.69E-01	2.65E-01	2.74E-01	2.79E-01	1.45E-01	6.53E+00
6.0E-01	1.83E-02	6.60E-02	3.32E-02	3.43E-02	1.52E-01	9.49E-02	9.72E-02	6.65E-02	6.71E-02	3.04E-01	2.56E-01	2.62E-01	2.70E-01	2.75E-01	6.77E-02	6.34E+00
7.0E-01	1.83E-02	6.58E-02	3.32E-02	3.43E-02	1.50E-01	9.49E-02	9.72E-02	6.65E-02	6.71E-02	2.76E-01	2.51E-01	2.56E-01	2.64E-01	2.68E-01	4.09E-02	6.16E+00
8.0E-01	1.83E-02	6.56E-02	3.32E-02	3.43E-02	1.47E-01	9.48E-02	9.71E-02	6.65E-02	6.71E-02	2.47E-01	2.44E-01	2.48E-01	2.55E-01	2.58E-01	3.45E-02	5.97E+00
1.0E+00	1.83E-02	6.52E-02	3.31E-02	3.43E-02	1.41E-01	9.46E-02	9.69E-02	6.65E-02	6.71E-02	1.91E-01	2.25E-01	2.28E-01	2.31E-01	2.32E-01	3.35E-02	5.52E+00
1.2E+00	1.83E-02	6.47E-02	3.31E-02	3.43E-02	1.34E-01	9.42E-02	9.65E-02	6.64E-02	6.71E-02	1.40E-01	2.00E-01	2.00E-01	2.01E-01	2.00E-01	2.90E-02	4.99E+00
1.4E+00	1.83E-02	6.41E-02	3.31E-02	3.43E-02	1.26E-01	9.37E-02	9.59E-02	6.64E-02	6.71E-02	1.00E-01	1.70E-01	1.69E-01	1.69E-01	1.67E-01	2.16E-02	4.45E+00
1.6E+00	1.83E-02	6.34E-02	3.31E-02	3.43E-02	1.18E-01	9.29E-02	9.50E-02	6.64E-02	6.70E-02	7.00E-02	1.40E-01	1.38E-01	1.39E-01	1.37E-01	1.46E-02	3.92E+00
1.8E+00	1.83E-02	6.26E-02	3.31E-02	3.43E-02	1.09E-01	9.18E-02	9.38E-02	6.63E-02	6.69E-02	4.97E-02	1.12E-01	1.08E-01	1.12E-01	1.09E-01	9.23E-03	3.46E+00
2.0E+00	1.83E-02	6.18E-02	3.31E-02	3.43E-02	9.98E-02	9.04E-02	9.22E-02	6.61E-02	6.68E-02	3.72E-02	8.62E-02	8.24E-02	8.82E-02	8.56E-02	5.66E-03	3.05E+00
2.4E+00	1.82E-02	5.99E-02	3.31E-02	3.42E-02	8.18E-02	8.65E-02	8.80E-02	6.56E-02	6.62E-02	2.74E-02	4.76E-02	4.44E-02	5.27E-02	5.06E-02	2.33E-03	2.45E+00
3.0E+00	1.81E-02	5.65E-02	3.30E-02	3.41E-02	5.74E-02	7.83E-02	7.90E-02	6.41E-02	6.46E-02	2.62E-02	1.87E-02	1.73E-02	2.25E-02	2.13E-02	1.49E-03	1.92E+00
4.0E+00	1.79E-02	5.00E-02	3.27E-02	3.37E-02	2.88E-02	5.99E-02	5.93E-02	5.90E-02	5.93E-02	1.99E-02	9.24E-03	9.43E-03	5.29E-03	5.00E-03	1.28E-03	1.48E+00
5.0E+00	1.77E-02	4.28E-02	3.21E-02	3.31E-02	1.51E-02	4.05E-02	3.92E-02	5.09E-02	5.09E-02	9.65E-03	8.87E-03	8.95E-03	2.44E-03	2.40E-03	6.67E-04	1.19E+00
6.0E+00	1.74E-02	3.55E-02	3.11E-02	3.20E-02	1.08E-02	2.47E-02	2.33E-02	4.14E-02	4.12E-02	3.88E-03	6.84E-03	6.62E-03	2.28E-03	2.27E-03	2.61E-04	9.39E-01
7.0E+00	1.71E-02	2.96E-02	2.99E-02	3.06E-02	1.02E-02	1.40E-02	1.29E-02	3.21E-02	3.18E-02	2.05E-03	4.25E-03	3.95E-03	2.17E-03	2.15E-03	1.22E-04	7.38E-01
8.0E+00	1.67E-02	2.25E-02	2.83E-02	2.88E-02	1.01E-02	7.75E-03	7.10E-03	2.40E-02	2.37E-02	1.78E-03	2.32E-03	2.09E-03	1.86E-03	1.83E-03	9.70E-05	5.84E-01
1.0E+01	1.60E-02	1.30E-02	2.40E-02	2.50E-02	8.00E-03	3.30E-03	3.30E-03	1.30E-02	1.20E-02	1.60E-03	6.70E-04	6.10E-04	1.10E-03	1.10E-03	9.00E-05	3.80E-01
1.5E+01	1.30E-02	2.90E-03	1.40E-02	1.40E-02	1.70E-03	2.70E-03	2.70E-03	2.40E-03	2.30E-03	3.80E-04	3.80E-04	3.90E-04	2.20E-04	2.10E-04	2.10E-05	1.60E-01
2.0E+01	1.10E-02	1.60E-03	6.80E-03	6.40E-03	3.60E-04	1.60E-03	1.60E-03	4.80E-04	4.50E-04	6.80E-05	2.40E-04	2.40E-04	4.60E-05	4.30E-05	3.70E-06	8.10E-02
3.0E+01	6.30E-03	1.40E-03	1.50E-03	1.30E-03	2.70E-04	3.60E-04	3.10E-04	3.10E-05	2.80E-05	4.50E-05	5.50E-05	4.80E-05	2.90E-06	2.60E-06	2.50E-06	2.70E-02
4.0E+01	3.40E-03	7.50E-04	3.60E-04	2.90E-04	1.50E-04	8.30E-05	6.70E-05	3.40E-06	3.00E-06	2.60E-05	1.30E-05	1.00E-05	3.20E-07	2.70E-07	1.40E-06	1.10E-02
6.0E+01	1.00E-03	1.80E-04	3.50E-05	2.40E-05	3.70E-05	7.50E-06	5.20E-06	1.20E-07	9.50E-08	6.30E-06	1.10E-06	7.80E-07	1.10E-08	8.60E-09	3.40E-07	2.70E-03
1.0E+02	1.30E-04	1.90E-05	1.50E-06	7.30E-07	3.60E-06	3.00E-07	1.50E-07	1.60E-09	1.00E-09	6.10E-07	4.50E-08	2.30E-08	1.40E-10	9.40E-11	3.30E-08	3.10E-04
E[keV]:	2.32E+01	3.41E+00	3.15E+00	3.00E+00	6.27E-01	5.21E-01	4.96E-01	3.12E+00	3.07E-01	8.10E-02	4.80E-02	4.80E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(4)	4f-(1)	Total
0.0E+00	3.68E-02	1.70E-01	2.36E-01	3.73E-01	6.91E-01	8.81E-01	1.27E+00	1.54E+00	1.94E+00	2.74E+00	3.26E+00	4.34E+00	5.45E+00	6.58E+00	8.28E+00	8.28E+00
5.0E-02	3.68E-02	1.70E-01	2.36E-01	3.73E-01	6.91E-01	8.81E-01	1.27E+00	1.54E+00	1.94E+00	2.73E+00	3.26E+00	4.34E+00	5.45E+00	6.58E+00	8.23E+00	8.23E+00
1.0E-01	3.68E-02	1.70E-01	2.36E-01	3.73E-01	6.91E-01	8.81E-01	1.27E+00	1.54E+00	1.94E+00	2.73E+00	3.26E+00	4.34E+00	5.44E+00	6.58E+00	8.10E+00	8.09E+00
1.5E-01	3.68E-02	1.70E-01	2.36E-01	3.73E-01	6.91E-01	8.81E-01	1.27E+00	1.54E+00	1.94E+00	2.72E+00	3.25E+00	4.33E+00	5.44E+00	6.57E+00	7.89E+00	7.88E+00
2.0E-01	3.68E-02	1.69E-01	2.36E-01	3.73E-01	6.89E-01	8.79E-01	1.27E+00	1.53E+00	1.94E+00	2.71E+00	3.24E+00	4.31E+00	5.42E+00	6.55E+00	7.64E+00	7.64E+00
3.0E-01	3.68E-02	1.69E-01	2.36E-01	3.73E-01	6.87E-01	8.77E-01	1.27E+00	1.53E+00	1.93E+00	2.68E+00	3.20E+00	4.28E+00	5.39E+00	6.52E+00	7.16E+00	7.16E+00
4.0E-01	3.68E-02	1.69E-01	2.36E-01	3.73E-01	6.85E-01	8.75E-01	1.26E+00	1.53E+00	1.93E+00	2.64E+00	3.16E+00	4.23E+00	5.34E+00	6.47E+00	6.79E+00	6.78E+00
5.0E-01	3.68E-02	1.69E-01	2.35E-01	3.73E-01	6.81E-01	8.70E-01	1.26E+00	1.53E+00	1.93E+00	2.59E+00	3.10E+00	4.19E+00	5.28E+00	6.40E+00	6.54E+00	6.53E+00
6.0E-01	3.66E-02	1.69E-01	2.35E-01	3.72E-01	6.76E-01	8.66E-01	1.25E+00	1.52E+00	1.92E+00	2.53E+00	3.04E+00	4.09E+00	5.17E+00	6.27E+00	6.34E+00	6.34E+00
7.0E-01	3.66E-02	1.68E-01	2.35E-01	3.72E-01	6.72E-01	8.62E-01	1.25E+00	1.52E+00	1.92E+00	2.47E+00	2.97E+00	4.00E+00	5.05E+00	6.13E+00	6.17E+00	6.16E+00
8.0E-01	3.66E-02	1.68E-01	2.34E-01	3.71E-01	6.65E-01	8.55E-01	1.24E+00	1.51E+00	1.91E+00	2.41E+00	2.89E+00	3.89E+00	4.91E+00	5.94E+00	5.97E+00	5.97E+00
1.0E+00	3.66E-02	1.67E-01	2.33E-01	3.70E-01	6.52E-01	8.42E-01	1.23E+00	1.50E+00	1.90E+00	2.28E+00	2.73E+00	3.64E+00	4.57E+00	5.49E+00	5.53E+00	5.52E+00
1.2E+00	3.66E-02	1.66E-01	2.32E-01	3.69E-01	6.37E-01	8.26E-01	1.21E+00	1.48E+00	1.88E+00	2.16E+00	2.56E+00	3.36E+00	4.16E+00	4.96E+00	4.99E+00	4.99E+00
1.4E+00	3.66E-02	1.65E-01	2.31E-01	3.68E-01	6.20E-01	8.08E-01	1.19E+00	1.46E+00	1.86E+00	2.06E+00	2.40E+00	3.08E+00	3.75E+00	4.42E+00	4.44E+00	4.45E+00
1.6E+00	3.66E-02	1.63E-01	2.30E-01	3.67E-01	6.03E-01	7.89E-01	1.17E+00	1.43E+00	1.84E+00	1.98E+00	2.26E+00	2.81E+00	3.36E+00	3.91E+00	3.93E+00	3.92E+00
1.8E+00	3.66E-02	1.62E-01	2.28E-01	3.65E-01	5.83E-01	7.67E-01	1.14E+00	1.41E+00	1.81E+00	1.91E+00	2.13E+00	2.56E+00	3.01E+00	3.45E+00	3.46E+00	3.46E+00
2.0E+00	3.66E-02	1.60E-01	2.26E-01	3.64E-01	5.63E-01	7.44E-01	1.11E+00	1.38E+00	1.78E+00	1.85E+00	2.02E+00	2.35E+00	2.71E+00	3.05E+00	3.06E+00	3.05E+00
2.4E+00	3.64E-02	1.56E-01	2.22E-01	3.59E-01	5.23E-01	6.96E-01	1.05E+00	1.31E+00	1.71E+00	1.76E+00	1.86E+00	2.03E+00	2.25E+00	2.45E+00	2.45E+00	2.45E+00
3.0E+00	3.62E-02	1.49E-01	2.15E-01	3.52E-01	4.66E-01	6.23E-01	9.39E-01	1.20E+00	1.58E+00	1.64E+00	1.67E+00	1.74E+00	1.83E+00	1.92E+00	1.92E+00	1.92E+00
4.0E+00	3.58E-02	1.38E-01	2.01E-01	3.38E-01	3.94E-01	5.13E-01	7.51E-01	9.87E-01	1.34E+00	1.38E+00	1.44E+00	1.46E+00	1.48E+00	1.48E+00	1.48E+00	1.48E+00
5.0E+00	3.54E-02	1.21E-01	1.85E-01	3.19E-01	3.48E-01	4.29E-01	5.86E-01	7.89E-01	1.09E+00	1.11E+00	1.13E+00	1.17E+00	1.18E+00	1.19E+00	1.19E+00	1.19E+00
6.0E+00	3.48E-02	1.06E-01	1.68E-01	2.96E-01	3.18E-01	3.67E-01	4.60E-01	6.26E-01	8.73E-01	8.81E-01	8.94E-01	9.21E-01	9.30E-01	9.39E-01	9.39E-01	9.39E-01
7.0E+00	3.42E-02	9.14E-02	1.51E-01	2.74E-01	2.94E-01	3.22E-01	3.74E-01	5.02E-01	6.93E-01	6.97E-01	7.05E-01	7.21E-01	7.30E-01	7.38E-01	7.39E-01	7.38E-01
8.0E+00	3.34E-02	7.84E-02	1.35E-01	2.50E-01	2.70E-01	2.86E-01	3.14E-01	4.10E-01	5.53E-01	5.56E-01	5.61E-01	5.69E-01	5.76E-01	5.84E-01	5.84E-01	5.84E-01
1.0E+01	3.20E-02	5.80E-02	1.06E-01	2.06E-01	2.22E-01	2.29E-01	2.42E-01	2.94E-01	3.66E-01	3.69E-01	3.70E-01	3.73E-01	3.77E-01	3.82E-01	3.82E-01	3.80E-01
1.5E+01	2.60E-02	3.18E-02	5.98E-02	1.16E-01	1.19E-01	1.25E-01	1.35E-01	1.45E-01	1.59E-01	1.60E-01	1.60E-01	1.62E-01	1.63E-01	1.64E-01	1.64E-01	1.60E-01
2.0E+01	2.20E-02	2.52E-02	3.88E-02	6.44E-02	6.51E-02	6.83E-02	7.47E-02	7.66E-02	7.93E-02	7.95E-02	8.00E-02	8.09E-02	8.11E-02	8.13E-02	8.13E-02	8.10E-02
3.0E+01	1.26E-02	1.54E-02	1.84E-02	2.36E-02	2.41E-02	2.49E-02	2.61E-02	2.62E-02	2.64E-02	2.65E-02	2.66E-02	2.68E-02	2.68E-02	2.68E-02	2.68E-02	2.70E-02
4.0E+01	6.80E-03	8.30E-03	9.02E-03	1.02E-02	1.05E-02	1.06E-02	1.09E-02	1.09E-02	1.09E-02	1.10E-02	1.10E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.10E-02
6.0E+01	2.00E-03	2.36E-03	2.43E-03	2.53E-03	2.60E-03	2.62E-03	2.64E-03	2.64E-03	2.64E-03	2.65E-03	2.65E-03	2.65E-03	2.65E-03	2.65E-03	2.66E-03	2.70E-03
1.0E+02	2.60E-04	2.98E-04	3.01E-04	3.04E-04	3.11E-04	3.12E-04	3.12E-04	3.12E-04	3.12E-04	3.14E-04	3.14E-04	3.14E-04	3.14E-04	3.14E-04	3.14E-04	3.10E-04
E[keV]:	2.32E+01	3.41E+00	3.15E+00	3.00E+00	6.27E-01	5.21E-01	4.96E-01	3.12E+00	3.07E-01	8.10E-02	4.80E-02	4.80E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																
0.0E+00	3.94E+00	5.55E+00	6.34E+00	6.75E+00	7.14E+00	7.33E+00	7.64E+00	7.78E+00	8.05E+00	8.11E+00	8.25E+00	8.28E+00	8.28E+00			
5.0E-02	3.89E+00	5.50E+00	6.29E+00	6.69E+00	7.08E+00	7.27E+00	7.59E+00	7.73E+00	7.99E+00	8.06E+00	8.19E+00	8.23E+00	8.23E+00			
1.0E-01	3.76E+00	5.37E+00	6.16E+00	6.56E+00	6.95E+00	7.14E+00	7.46E+00	7.59E+00	7.86E+00	7.93E+00	8.06E+00	8.10E+00	8.09E+00			
1.5E-01	3.56E+00	5.17E+00	5.95E+00	6.35E+00	6.74E+00	6.93E+00	7.25E+00	7.39E+00	7.65E+00	7.72E+00	7.85E+00	7.89E+00	7.88E+00			
2.0E-01	3.33E+00	4.93E+00	5.71E+00	6.11E+00	6.50E+00	6.69E+00	7.00E+00	7.14E+00	7.41E+00	7.47E+00	7.61E+00	7.64E+00	7.64E+00			
3.0E-01	2.88E+00	4.48E+00	5.26E+00	5.66E+00	6.05E+00	6.25E+00	6.52E+00	6.66E+00	6.92E+00	6.99E+00	7.12E+00	7.16E+00	7.16E+00			
4.0E-01	2.55E+00	4.15E+00	4.85E+00	5.26E+00	5.64E+00	5.83E+00	6.15E+00	6.28E+00	6.55E+00	6.62E+00	6.75E+00	6.79E+00	6.78E+00			
5.0E-01	2.36E+00	3.96E+00	4.62E+00	5.02E+00	5.41E+00	5.60E+00	5.90E+00	6.04E+00	6.31E+00	6.37E+00	6.51E+00	6.54E+00	6.53E+00			
6.0E-01	2.25E+00	3.81E+00	4.42E+00	4.82E+00	5.21E+00	5.40E+00	5.70E+00	5.84E+00	6.10E+00	6.17E+00	6.30E+00	6.34E+00	6.34E+00			
7.0E-01	2.17E+00	3.69E+00	4.25E+00	4.65E+00	5.04E+00	5.23E+00	5.53E+00	5.67E+00	5.93E+00	6.00E+00	6.13E+00	6.17E+00	6.16E+00			
8.0E-01	2.09E+00	3.57E+00	4.06E+00	4.46E+00	4.85E+00	5.04E+00	5.34E+00	5.47E+00	5.74E+00	5.80E+00	5.94E+00	5.97E+00	5.97E+00			
1.0E+00	1.89E+00	3.25E+00	3.63E+00	4.03E+00	4.42E+00	4.61E+00	4.89E+00	5.03E+00	5.29E+00	5.36E+00	5.49E+00	5.53E+00	5.52E+00			
1.2E+00	1.63E+00	2.83E+00	3.11E+00	3.52E+00	3.90E+00	4.09E+00	4.36E+00	4.50E+00	4.76E+00	4.83E+00	4.96E+00	4.99E+00	4.99E+00			
1.4E+00	1.37E+00	2.38E+00	2.58E+00	2.98E+00	3.37E+00	3.56E+00	3.81E+00	3.94E+00	4.21E+00	4.28E+00	4.40E+00	4.44E+00	4.45E+00			
1.6E+00	1.12E+00	1.95E+00	2.09E+00	2.49E+00	2.87E+00	3.06E+00	3.29E+00	3.43E+00	3.70E+00	3.76E+00	3.89E+00	3.93E+00	3.92E+00			
1.8E+00	8.93E-01	1.55E+00	1.65E+00	2.05E+00	2.43E+00	2.61E+00	2.83E+00	2.96E+00	3.23E+00	3.30E+00	3.42E+00	3.46E+00	3.46E+00			
2.0E+00	7.01E-01	1.20E+00	1.28E+00	1.68E+00	2.05E+00	2.23E+00	2.43E+00	2.56E+00	2.83E+00	2.90E+00	3.02E+00	3.06E+00	3.05E+00			
2.4E+00	4.16E-01	6.88E-01	7.43E-01	1.14E+00	1.49E+00	1.67E+00	1.93E+00	1.97E+00	2.23E+00	2.29E+00	2.41E+00	2.45E+00	2.45E+00			
3.0E+00	1.77E-01	2.83E-01	3.36E-01	7.23E-01	1.04E+00	1.20E+00	1.31E+00	1.45E+00	1.70E+00	1.77E+00	1.88E+00	1.92E+00	1.92E+00			
4.0E+00	4.24E-02	9.86E-02	1.38E-01	4.94E-01	7.31E-01	8.51E-01	9.09E-01	1.04E+00	1.28E+00	1.35E+00	1.45E+00	1.48E+00	1.48E+00			
5.0E+00	2.00E-02	7.36E-02	9.29E-02	3.98E-01	5.55E-01	6.36E-01	6.66E-01	7.99E-01	1.00E+00	1.07E+00	1.15E+00	1.19E+00	1.19E+00			
6.0E+00	1.85E-02	5.86E-02	6.64E-02	3.14E-01	4.07E-01	4.56E-01	4.78E-01	6.06E-01	7.71E-01	8.34E-01	9.05E-01	9.39E-01	9.39E-01			
7.0E+00	1.74E-02	4.17E-02	4.58E-02	2.37E-01	2.88E-01	3.16E-01	3.37E-01	4.59E-01	5.87E-01	6.47E-01	7.04E-01	7.39E-01	7.38E-01			
8.0E+00	1.49E-02	2.79E-02	3.14E-02	1.74E-01	2.02E-01	2.18E-01	2.38E-01	3.53E-01	4.49E-01	5.06E-01	5.51E-01	5.84E-01	5.84E-01			
1.0E+01	8.89E-03	1.27E-02	1.59E-02	8.79E-02	1.01E-01	1.08E-01	1.24E-01	2.24E-01	2.76E-01	3.24E-01	3.50E-01	3.82E-01	3.80E-01			
1.5E+01	1.74E-03	4.06E-03	4.82E-03	1.86E-02	2.94E-02	3.48E-02	3.82E-02	9.42E-02	1.04E-01	1.32E-01	1.38E-01	1.64E-01	1.60E-01			
2.0E+01	3.60E-04	1.80E-03	1.94E-03	4.64E-03	1.10E-02	1.42E-02	1.50E-02	4.06E-02	4.25E-02	5.61E-02	5.93E-02	8.13E-02	8.10E-02			
3.0E+01	2.45E-05	3.27E-04	4.17E-04	5.85E-04	1.82E-03	2.54E-03	3.08E-03	8.28E-03	8.41E-03	1.14E-02	1.42E-02	2.68E-02	2.70E-02			
4.0E+01	3.76E-06	6.98E-05	1.22E-04	1.40E-04	4.08E-04	5.74E-04	8.74E-04	2.03E-03	2.05E-03	2.77E-03	4.27E-03	1.11E-02	1.10E-02			
6.0E+01	4.18E-07	5.74E-06	1.83E-05	1.89E-05	3.97E-05	5.47E-05	1.29E-04	2.25E-04	2.25E-04	2.95E-04	6.55E-04	2.66E-03	2.70E-03			
1.0E+02	3.39E-08	2.16E-07	1.44E-06	1.44E-06	2.04E-06	2.64E-06	9.84E-06	1.28E-05	1.28E-05	1.58E-05	5.38E-05	3.14E-04	3.10E-04			
E[keV]:	0.00E+00	4.80E-02	8.10E-02	3.07E-01	4.96E-01	5.21E-01	6.27E-01	3.00E+00	3.12E+00	3.15E+00	3.41E+00	2.32E+01				


0
1x10-2
1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
45Rh
Σi Ji(Q)
Q

Z=46

Compton profiles for the single orbitals and binding energies

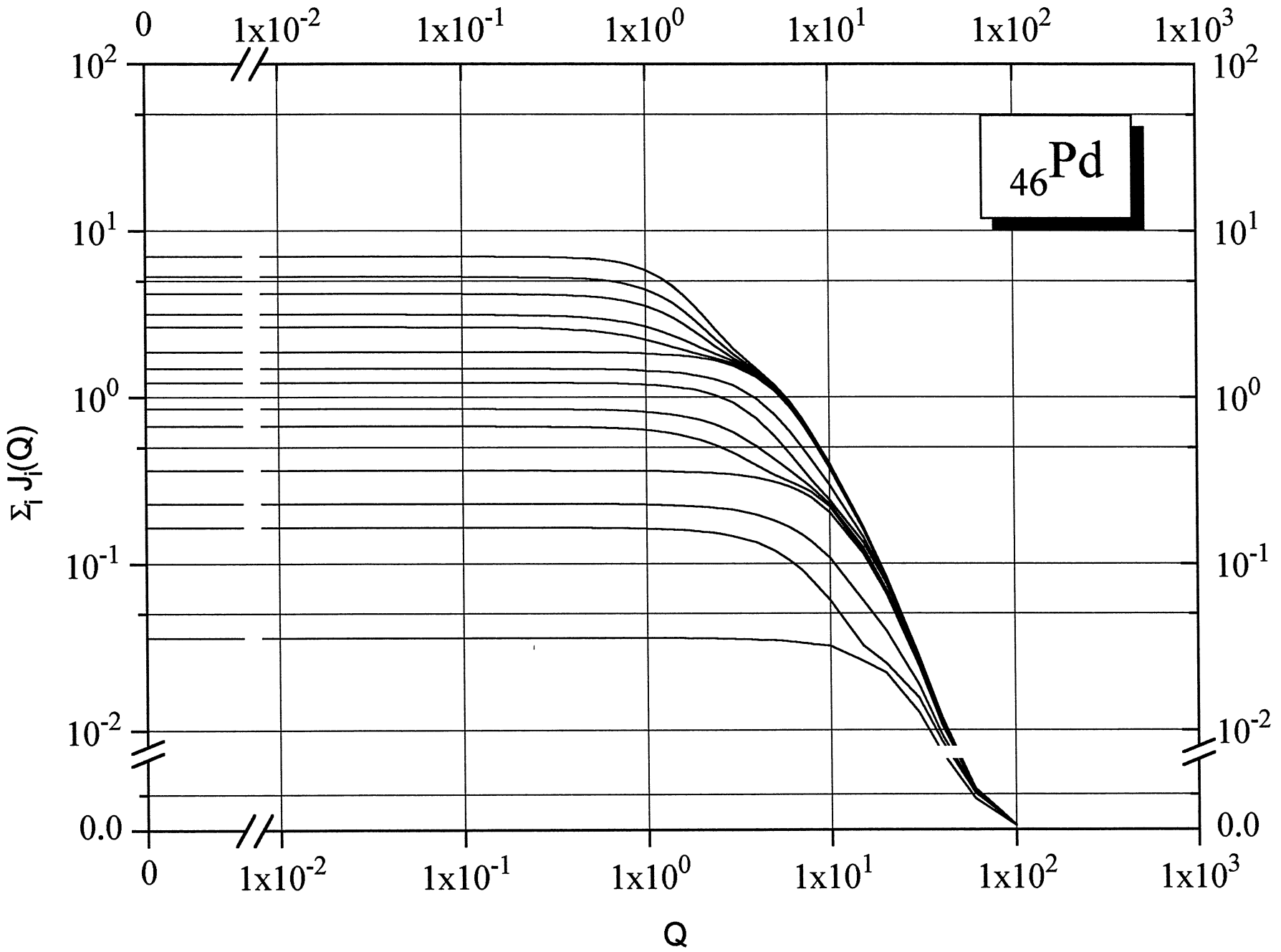
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	Total
0.0E+00	1.79E-02	6.47E-02	3.23E-02	3.35E-02	1.54E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.86E-01	2.54E-01	2.61E-01	2.78E-01	2.85E-01	7.02E+00
5.0E-02	1.79E-02	6.47E-02	3.23E-02	3.35E-02	1.54E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.85E-01	2.54E-01	2.61E-01	2.78E-01	2.85E-01	7.02E+00
1.0E-01	1.79E-02	6.47E-02	3.23E-02	3.35E-02	1.54E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.83E-01	2.54E-01	2.61E-01	2.78E-01	2.85E-01	7.02E+00
1.5E-01	1.79E-02	6.47E-02	3.23E-02	3.35E-02	1.54E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.80E-01	2.54E-01	2.61E-01	2.78E-01	2.85E-01	7.01E+00
2.0E-01	1.79E-02	6.46E-02	3.23E-02	3.35E-02	1.53E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.75E-01	2.54E-01	2.61E-01	2.78E-01	2.85E-01	7.00E+00
3.0E-01	1.79E-02	6.46E-02	3.23E-02	3.35E-02	1.53E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.62E-01	2.53E-01	2.61E-01	2.77E-01	2.84E-01	6.96E+00
4.0E-01	1.79E-02	6.45E-02	3.23E-02	3.35E-02	1.51E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.44E-01	2.52E-01	2.60E-01	2.76E-01	2.83E-01	6.91E+00
5.0E-01	1.79E-02	6.44E-02	3.23E-02	3.35E-02	1.50E-01	9.19E-02	9.43E-02	6.42E-02	6.47E-02	3.23E-01	2.51E-01	2.58E-01	2.74E-01	2.80E-01	6.82E+00
6.0E-01	1.79E-02	6.43E-02	3.23E-02	3.35E-02	1.48E-01	9.19E-02	9.42E-02	6.42E-02	6.47E-02	2.99E-01	2.48E-01	2.54E-01	2.69E-01	2.74E-01	6.69E+00
7.0E-01	1.79E-02	6.42E-02	3.23E-02	3.35E-02	1.46E-01	9.18E-02	9.42E-02	6.42E-02	6.47E-02	2.72E-01	2.43E-01	2.49E-01	2.61E-01	2.65E-01	6.53E+00
8.0E-01	1.79E-02	6.40E-02	3.23E-02	3.35E-02	1.44E-01	9.18E-02	9.41E-02	6.42E-02	6.47E-02	2.46E-01	2.37E-01	2.42E-01	2.51E-01	2.54E-01	6.32E+00
1.0E+00	1.79E-02	6.36E-02	3.23E-02	3.35E-02	1.38E-01	9.16E-02	9.39E-02	6.41E-02	6.47E-02	1.92E-01	2.20E-01	2.24E-01	2.25E-01	2.26E-01	5.82E+00
1.2E+00	1.79E-02	6.31E-02	3.23E-02	3.35E-02	1.31E-01	9.13E-02	9.36E-02	6.41E-02	6.47E-02	1.44E-01	1.98E-01	1.99E-01	1.96E-01	1.95E-01	5.25E+00
1.4E+00	1.79E-02	6.26E-02	3.23E-02	3.34E-02	1.24E-01	9.08E-02	9.31E-02	6.41E-02	6.47E-02	1.04E-01	1.71E-01	1.70E-01	1.65E-01	1.63E-01	4.68E+00
1.6E+00	1.79E-02	6.19E-02	3.23E-02	3.34E-02	1.16E-01	9.01E-02	9.23E-02	6.41E-02	6.46E-02	7.39E-02	1.43E-01	1.40E-01	1.37E-01	1.34E-01	4.13E+00
1.8E+00	1.78E-02	6.12E-02	3.23E-02	3.34E-02	1.08E-01	8.92E-02	9.12E-02	6.40E-02	6.46E-02	5.27E-02	1.16E-01	1.12E-01	1.11E-01	1.08E-01	3.64E+00
2.0E+00	1.78E-02	6.04E-02	3.23E-02	3.34E-02	9.93E-02	8.79E-02	8.98E-02	6.39E-02	6.44E-02	3.92E-02	9.11E-02	8.69E-02	8.88E-02	8.61E-02	3.21E+00
2.4E+00	1.78E-02	5.87E-02	3.22E-02	3.34E-02	8.23E-02	8.46E-02	8.61E-02	6.35E-02	6.40E-02	2.75E-02	5.24E-02	4.86E-02	5.48E-02	5.26E-02	2.56E+00
3.0E+00	1.77E-02	5.55E-02	3.21E-02	3.33E-02	5.89E-02	7.72E-02	7.80E-02	6.23E-02	6.27E-02	2.55E-02	2.12E-02	1.93E-02	2.47E-02	2.34E-02	1.96E+00
4.0E+00	1.75E-02	4.94E-02	3.18E-02	3.30E-02	3.04E-02	6.04E-02	5.99E-02	5.79E-02	5.82E-02	2.07E-02	9.24E-03	9.30E-03	6.11E-03	5.72E-03	1.49E+00
5.0E+00	1.73E-02	4.26E-02	3.13E-02	3.23E-02	1.59E-02	4.20E-02	4.08E-02	5.07E-02	5.08E-02	1.08E-02	8.86E-03	8.95E-03	2.48E-03	2.39E-03	1.20E+00
6.0E+00	1.70E-02	3.57E-02	3.05E-02	3.14E-02	1.09E-02	2.64E-02	2.50E-02	4.20E-02	4.19E-02	4.51E-03	7.24E-03	7.01E-03	2.16E-03	2.12E-03	9.58E-01
7.0E+00	1.67E-02	2.91E-02	2.93E-02	3.01E-02	1.00E-02	1.54E-02	1.42E-02	3.31E-02	3.29E-02	2.23E-03	4.75E-03	4.41E-03	2.11E-03	2.06E-03	7.60E-01
8.0E+00	1.64E-02	2.31E-02	2.79E-02	2.85E-02	9.96E-03	8.66E-03	7.90E-03	2.52E-02	2.50E-02	1.79E-03	2.71E-03	2.43E-03	1.87E-03	1.81E-03	6.05E-01
1.0E+01	1.60E-02	1.40E-02	2.40E-02	2.40E-02	8.30E-03	3.50E-03	3.40E-03	1.40E-02	1.30E-02	1.70E-03	7.90E-04	7.00E-04	1.20E-03	1.10E-03	4.00E-01
1.5E+01	1.30E-02	3.10E-03	1.40E-02	1.40E-02	2.00E-03	2.70E-03	2.70E-03	2.70E-03	2.60E-03	4.40E-04	3.80E-04	3.90E-04	2.50E-04	2.30E-04	1.70E-01
2.0E+01	1.10E-02	1.60E-03	7.20E-03	6.70E-03	3.90E-04	1.70E-03	1.60E-03	5.60E-04	5.30E-04	7.70E-05	2.60E-04	2.50E-04	5.30E-05	4.90E-05	8.40E-02
3.0E+01	6.40E-03	1.40E-03	1.60E-03	1.40E-03	2.70E-04	4.00E-04	3.50E-04	3.80E-05	3.40E-05	4.70E-05	6.30E-05	5.50E-05	3.50E-06	3.10E-06	2.80E-02
4.0E+01	3.50E-03	7.90E-04	4.00E-04	3.20E-04	1.60E-04	9.50E-05	7.60E-05	4.20E-06	3.70E-06	2.80E-05	1.50E-05	1.20E-05	3.90E-07	3.30E-07	1.20E-02
6.0E+01	1.10E-03	2.00E-04	4.00E-05	2.70E-05	4.10E-05	8.90E-06	6.10E-06	1.50E-07	1.20E-07	7.00E-06	1.40E-06	9.30E-07	1.40E-08	1.10E-08	2.90E-03
1.0E+02	1.40E-04	2.10E-05	1.70E-06	8.50E-07	4.10E-06	3.60E-07	1.80E-07	2.00E-09	1.30E-09	6.90E-07	5.50E-08	2.70E-08	1.80E-10	1.20E-10	3.40E-04
E[keV]:	2.44E+01	3.60E+00	3.33E+00	3.17E+00	6.70E-01	5.59E-01	5.31E-01	3.40E-01	3.35E-01	8.60E-02	5.10E-02	5.10E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	Total
0.0E+00	3.58E-02	1.65E-01	2.30E-01	3.64E-01	6.72E-01	8.56E-01	1.23E+00	1.49E+00	1.88E+00	2.65E+00	3.16E+00	4.20E+00	5.31E+00	7.02E+00	7.02E+00
5.0E-02	3.58E-02	1.65E-01	2.30E-01	3.64E-01	6.72E-01	8.56E-01	1.23E+00	1.49E+00	1.88E+00	2.65E+00	3.16E+00	4.20E+00	5.31E+00	7.02E+00	7.02E+00
1.0E-01	3.58E-02	1.65E-01	2.30E-01	3.64E-01	6.72E-01	8.56E-01	1.23E+00	1.49E+00	1.88E+00	2.64E+00	3.15E+00	4.20E+00	5.31E+00	7.02E+00	7.02E+00
1.5E-01	3.58E-02	1.65E-01	2.30E-01	3.64E-01	6.72E-01	8.56E-01	1.23E+00	1.49E+00	1.88E+00	2.64E+00	3.15E+00	4.19E+00	5.30E+00	7.01E+00	7.01E+00
2.0E-01	3.58E-02	1.65E-01	2.30E-01	3.64E-01	6.70E-01	8.53E-01	1.23E+00	1.49E+00	1.88E+00	2.63E+00	3.13E+00	4.18E+00	5.29E+00	7.00E+00	7.00E+00
3.0E-01	3.58E-02	1.65E-01	2.30E-01	3.64E-01	6.70E-01	8.53E-01	1.23E+00	1.49E+00	1.88E+00	2.60E+00	3.11E+00	4.15E+00	5.26E+00	6.96E+00	6.96E+00
4.0E-01	3.58E-02	1.65E-01	2.29E-01	3.63E-01	6.65E-01	8.49E-01	1.23E+00	1.48E+00	1.87E+00	2.56E+00	3.06E+00	4.10E+00	5.21E+00	6.91E+00	6.91E+00
5.0E-01	3.58E-02	1.65E-01	2.29E-01	3.63E-01	6.63E-01	8.47E-01	1.22E+00	1.48E+00	1.87E+00	2.52E+00	3.02E+00	4.05E+00	5.15E+00	6.83E+00	6.82E+00
6.0E-01	3.58E-02	1.64E-01	2.29E-01	3.63E-01	6.59E-01	8.43E-01	1.22E+00	1.48E+00	1.86E+00	2.46E+00	2.96E+00	3.97E+00	5.05E+00	6.69E+00	6.69E+00
7.0E-01	3.58E-02	1.64E-01	2.29E-01	3.63E-01	6.55E-01	8.38E-01	1.22E+00	1.47E+00	1.86E+00	2.40E+00	2.89E+00	3.89E+00	4.93E+00	6.52E+00	6.53E+00
8.0E-01	3.58E-02	1.64E-01	2.28E-01	3.62E-01	6.50E-01	8.34E-01	1.21E+00	1.47E+00	1.86E+00	2.35E+00	2.82E+00	3.79E+00	4.79E+00	6.32E+00	6.32E+00
1.0E+00	3.56E-02	1.63E-01	2.28E-01	3.62E-01	6.38E-01	8.21E-01	1.20E+00	1.45E+00	1.84E+00	2.23E+00	2.67E+00	3.56E+00	4.46E+00	5.82E+00	5.82E+00
1.2E+00	3.58E-02	1.62E-01	2.27E-01	3.61E-01	6.23E-01	8.05E-01	1.18E+00	1.44E+00	1.82E+00	2.11E+00	2.51E+00	3.30E+00	4.09E+00	5.26E+00	5.25E+00
1.4E+00	3.58E-02	1.61E-01	2.26E-01	3.59E-01	6.07E-01	7.89E-01	1.16E+00	1.42E+00	1.81E+00	2.01E+00	2.36E+00	3.04E+00	3.70E+00	4.67E+00	4.68E+00
1.6E+00	3.58E-02	1.60E-01	2.24E-01	3.58E-01	5.90E-01	7.70E-01	1.14E+00	1.40E+00	1.79E+00	1.93E+00	2.22E+00	2.78E+00	3.33E+00	4.13E+00	4.13E+00
1.8E+00	3.56E-02	1.58E-01	2.23E-01	3.56E-01	5.72E-01	7.51E-01	1.12E+00	1.37E+00	1.76E+00	1.86E+00	2.10E+00	2.54E+00	2.99E+00	3.64E+00	3.64E+00
2.0E+00	3.56E-02	1.56E-01	2.21E-01	3.55E-01	5.53E-01	7.29E-01	1.09E+00	1.34E+00	1.73E+00	1.81E+00	1.99E+00	2.34E+00	2.69E+00	3.21E+00	3.21E+00
2.4E+00	3.56E-02	1.53E-01	2.17E-01	3.51E-01	5.16E-01	6.85E-01	1.03E+00	1.28E+00	1.67E+00	1.72E+00	1.83E+00	2.02E+00	2.24E+00	2.56E+00	2.56E+00
3.0E+00	3.54E-02	1.46E-01	2.11E-01	3.44E-01	4.62E-01	6.16E-01	9.28E-01	1.18E+00	1.55E+00	1.60E+00	1.65E+00	1.72E+00	1.82E+00	1.96E+00	1.96E+00
4.0E+00	3.50E-02	1.34E-01	1.97E-01	3.29E-01	3.90E-01	5.11E-01	7.51E-01	9.82E-01	1.33E+00	1.37E+00	1.39E+00	1.43E+00	1.45E+00	1.49E+00	1.49E+00
5.0E+00	3.46E-02	1.20E-01	1.82E-01	3.12E-01	3.43E-01	4.27E-01	5.91E-01	7.93E-01	1.10E+00	1.12E+00	1.14E+00	1.17E+00	1.18E+00	1.20E+00	1.20E+00
6.0E+00	3.40E-02	1.05E-01	1.66E-01	2.92E-01	3.14E-01	3.67E-01	4.67E-01	6.35E-01	8.86E-01	8.95E-01	9.10E-01	9.38E-01	9.46E-01	9.59E-01	9.58E-01
7.0E+00	3.34E-02	9.16E-02	1.50E-01	2.71E-01	2.91E-01	3.21E-01	3.78E-01	5.11E-01	7.08E-01	7.12E-01	7.22E-01	7.40E-01	7.48E-01	7.60E-01	7.60E-01
8.0E+00	3.28E-02	7.90E-02	1.35E-01	2.49E-01	2.69E-01	2.86E-01	3.18E-01	4.18E-01	5.68E-01	5.72E-01	5.77E-01	5.87E-01	5.95E-01	6.06E-01	6.05E-01
1.0E+01	3.20E-02	6.00E-02	1.08E-01	2.04E-01	2.21E-01	2.28E-01	2.41E-01	2.97E-01	3.75E-01	3.79E-01	3.80E-01	3.83E-01	3.88E-01	3.94E-01	4.00E-01
1.5E+01	2.60E-02	3.22E-02	6.02E-02	1.20E-01	1.26E-01	1.26E-01	1.36E-01	1.47E-01	1.63E-01	1.64E-01	1.64E-01	1.66E-01	1.67E-01	1.68E-01	1.70E-01
2.0E+01	2.20E-02	2.52E-02	3.96E-02	6.64E-02	6.72E-02	7.06E-02	7.70E-02	7.92E-02	8.24E-02	8.26E-02	8.31E-02	8.41E-02	8.43E-02	8.46E-02	8.40E-02
3.0E+01	1.28E-02	1.56E-02	1.88E-02	2.44E-02	2.49E-02	2.57E-02	2.71E-02	2.73E-02	2.75E-02	2.76E-02	2.77E-02	2.79E-02	2.80E-02	2.80E-02	2.80E-02
4.0E+01	7.00E-03	8.58E-03	9.38E-03	1.07E-02	1.10E-02	1.12E-02	1.15E-02	1.15E-02	1.15E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.17E-02	1.20E-02
6.0E+01	2.20E-03	2.60E-03	2.68E-03	2.79E-03	2.87E-03	2.89E-03	2.91E-03	2.91E-03	2.91E-03	2.93E-03	2.93E-03	2.93E-03	2.93E-03	2.93E-03	2.90E-03
1.0E+02	2.80E-04	3.22E-04	3.25E-04	3.29E-04	3.37E-04	3.38E-04	3.38E-04	3.38E-04	3.38E-04	3.40E-04	3.40E-04	3.40E-04	3.40E-04	3.40E-04	3.40E-04
E[keV]:	2.44E+01	3.60E+00	3.33E+00	3.17E+00	6.70E-01	5.59E-01	5.31E-01	3.40E-01	3.35E-01	8.60E-02	5.10E-02	5.10E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z															
0.0E+00	2.82E+00	4.37E+00	5.15E+00	5.53E+00	5.79E+00	6.17E+00	6.35E+00	6.66E+00	6.79E+00	6.86E+00	6.99E+00	7.02E+00	7.02E+00		
5.0E-02	2.82E+00	4.37E+00	5.14E+00	5.53E+00	5.79E+00	6.17E+00	6.35E+00	6.66E+00	6.79E+00	6.86E+00	6.99E+00	7.02E+00	7.02E+00		
1.0E-01	2.82E+00	4.37E+00	5.14E+00	5.53E+00	5.79E+00	6.16E+00	6.35E+00	6.65E+00	6.79E+00	6.85E+00	6.98E+00	7.02E+00	7.02E+00		
1.5E-01	2.82E+00	4.37E+00	5.13E+00	5.52E+00	5.78E+00	6.16E+00	6.34E+00	6.65E+00	6.78E+00	6.85E+00	6.98E+00	7.01E+00	7.01E+00		
2.0E-01	2.82E+00	4.37E+00	5.12E+00	5.51E+00	5.77E+00	6.15E+00	6.33E+00	6.64E+00	6.77E+00	6.83E+00	6.96E+00	7.00E+00	7.00E+00		
3.0E-01	2.81E+00	4.36E+00	5.09E+00	5.47E+00	5.73E+00	6.11E+00	6.29E+00	6.60E+00	6.73E+00	6.80E+00	6.93E+00	6.96E+00	6.96E+00		
4.0E-01	2.80E+00	4.35E+00	5.03E+00	5.42E+00	5.68E+00	6.06E+00	6.24E+00	6.54E+00	6.68E+00	6.74E+00	6.87E+00	6.91E+00	6.91E+00		
5.0E-01	2.78E+00	4.31E+00	4.96E+00	5.34E+00	5.60E+00	5.98E+00	6.16E+00	6.46E+00	6.60E+00	6.66E+00	6.79E+00	6.83E+00	6.82E+00		
6.0E-01	2.72E+00	4.23E+00	4.83E+00	5.22E+00	5.48E+00	5.85E+00	6.04E+00	6.33E+00	6.47E+00	6.53E+00	6.66E+00	6.69E+00	6.69E+00		
7.0E-01	2.63E+00	4.12E+00	4.66E+00	5.05E+00	5.31E+00	5.68E+00	5.87E+00	6.16E+00	6.29E+00	6.36E+00	6.48E+00	6.52E+00	6.53E+00		
8.0E-01	2.53E+00	3.97E+00	4.46E+00	4.85E+00	5.11E+00	5.48E+00	5.67E+00	5.96E+00	6.09E+00	6.15E+00	6.28E+00	6.32E+00	6.32E+00		
1.0E+00	2.26E+00	3.59E+00	3.98E+00	4.62E+00	5.00E+00	5.18E+00	5.46E+00	5.59E+00	5.65E+00	5.78E+00	5.82E+00	5.82E+00			
1.2E+00	1.95E+00	3.15E+00	3.43E+00	3.82E+00	4.08E+00	4.45E+00	4.64E+00	4.90E+00	5.03E+00	5.10E+00	5.22E+00	5.26E+00	5.25E+00		
1.4E+00	1.64E+00	2.66E+00	2.87E+00	3.26E+00	3.51E+00	3.89E+00	4.07E+00	4.31E+00	4.45E+00	4.51E+00	4.64E+00	4.67E+00	4.68E+00		
1.6E+00	1.35E+00	2.20E+00	2.35E+00	2.73E+00	2.99E+00	3.36E+00	3.54E+00	3.77E+00	3.90E+00	3.97E+00	4.09E+00	4.13E+00	4.13E+00		
1.8E+00	1.09E+00	1.77E+00	1.88E+00	2.27E+00	2.52E+00	2.89E+00	3.06E+00	3.28E+00	3.41E+00	3.48E+00	3.60E+00	3.64E+00	3.64E+00		
2.0E+00	8.72E-01	1.40E+00	1.48E+00	1.87E+00	2.12E+00	2.48E+00	2.66E+00	2.86E+00	2.99E+00	3.05E+00	3.17E+00	3.21E+00	3.21E+00		
2.4E+00	5.35E-01	8.34E-01	8.89E-01	1.27E+00	1.53E+00	1.87E+00	2.04E+00	2.21E+00	2.34E+00	2.40E+00	2.52E+00	2.56E+00	2.56E+00		
3.0E+00	2.39E-01	3.59E-01	4.10E-01	7.86E-01	1.04E+00	1.35E+00	1.50E+00	1.62E+00	1.75E+00	1.82E+00	1.93E+00	1.96E+00	1.96E+00		
4.0E+00	5.88E-02	1.14E-01	1.56E-01	5.05E-01	7.37E-01	9.76E-01	1.10E+00	1.16E+00	1.29E+00	1.35E+00	1.45E+00	1.49E+00	1.49E+00		
5.0E+00	2.43E-02	7.78E-02	9.94E-02	4.04E-01	6.07E-01	7.70E-01	8.54E-01	8.86E-01	1.02E+00	1.08E+00	1.16E+00	1.20E+00	1.20E+00		
6.0E+00	2.14E-02	6.39E-02	7.29E-02	3.24E-01	4.92E-01	5.92E-01	6.45E-01	6.67E-01	7.93E-01	8.54E-01	9.25E-01	9.59E-01	9.58E-01		
7.0E+00	2.08E-02	4.79E-02	5.24E-02	2.50E-01	3.82E-01	4.39E-01	4.70E-01	4.90E-01	6.10E-01	6.69E-01	7.27E-01	7.60E-01	7.60E-01		
8.0E+00	1.83E-02	3.35E-02	3.71E-02	1.87E-01	2.88E-01	3.19E-01	3.37E-01	3.57E-01	4.71E-01	5.27E-01	5.73E-01	6.06E-01	6.05E-01		
1.0E+01	1.14E-02	1.58E-02	1.92E-02	9.72E-02	1.53E-01	1.67E-01	1.74E-01	1.90E-01	2.86E-01	3.34E-01	3.62E-01	3.94E-01	4.00E-01		
1.5E+01	2.38E-03	4.70E-03	5.58E-03	2.12E-02	3.20E-02	4.28E-02	4.82E-02	5.22E-02	1.08E-01	1.36E-01	1.42E-01	1.68E-01	1.70E-01		
2.0E+01	5.06E-04	2.03E-03	2.18E-03	5.36E-03	7.60E-03	1.40E-02	1.74E-02	1.82E-02	4.50E-02	5.94E-02	6.26E-02	8.46E-02	8.40E-02		
3.0E+01	3.26E-05	3.79E-04	4.73E-04	6.77E-04	8.29E-04	2.23E-03	3.03E-03	3.57E-03	9.17E-03	1.24E-02	1.52E-02	2.80E-02	2.80E-02		
4.0E+01	3.54E-06	8.15E-05	1.38E-04	1.60E-04	1.77E-04	4.81E-04	6.71E-04	9.91E-04	2.27E-03	3.07E-03	4.65E-03	1.17E-02	1.20E-02		
6.0E+01	1.22E-07	6.64E-06	2.06E-05	2.14E-05	2.20E-05	4.64E-05	6.42E-05	1.46E-04	2.54E-04	3.34E-04	7.34E-04	2.93E-03	2.90E-03		
1.0E+02	1.44E-09	2.19E-07	1.60E-06	1.61E-06	1.62E-06	2.34E-06	3.06E-06	1.13E-05	1.47E-05	1.81E-05	6.01E-05	3.40E-04	3.40E-04		
E[keV]:	0.00E+00	5.10E-02	8.60E-02	3.35E-01	3.40E-01	5.31E-01	5.59E-01	6.70E-01	3.17E+00	3.33E+00	3.60E+00	2.44E+01			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10^2
10^1
10^0
10^-1
10^-2
0.0
46Pd
Σ_i J_i(Q)
Q

Z=47

Compton profiles for the single orbitals and binding energies

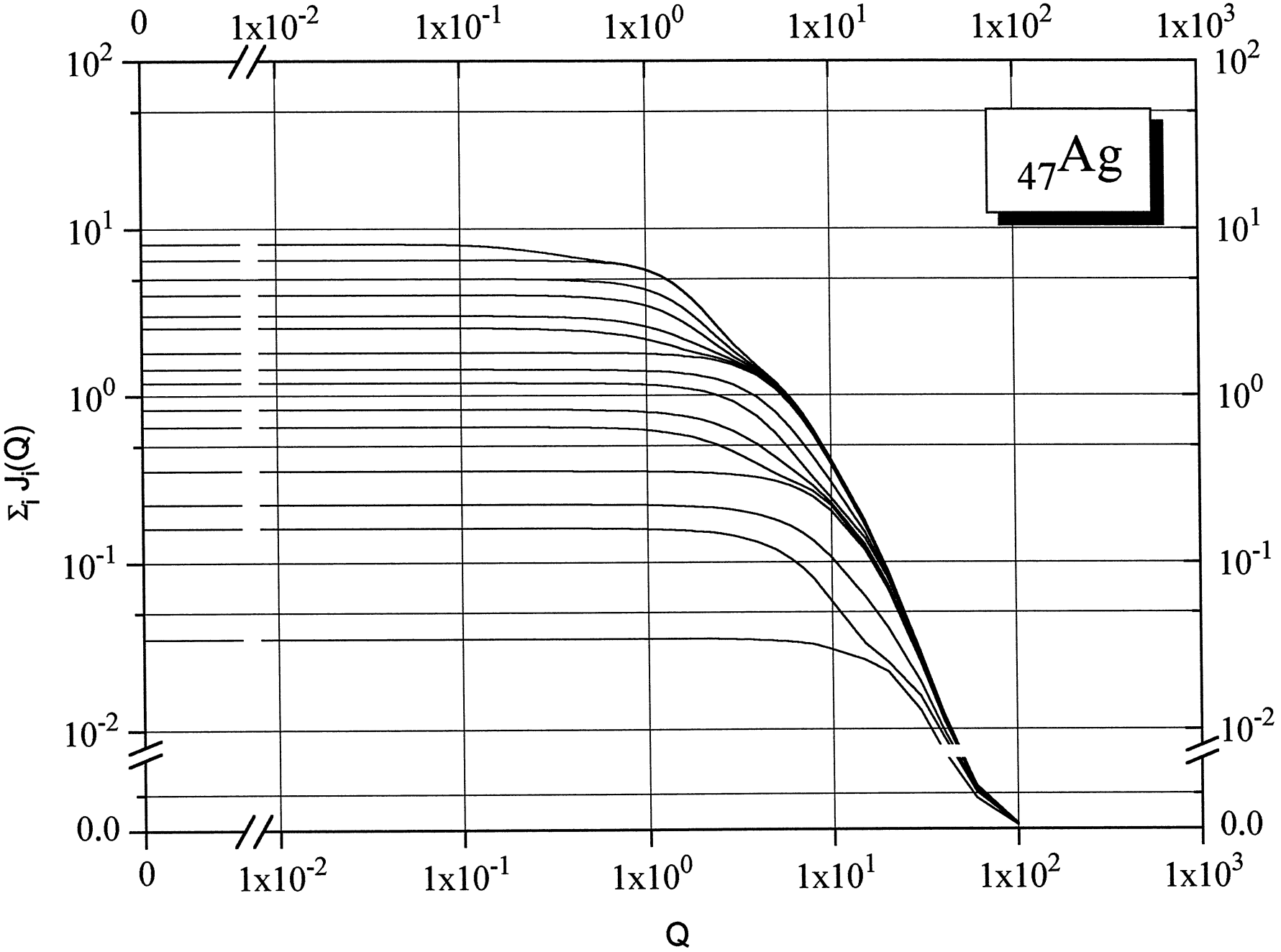
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(1)	Total
0.0E+00	1.75E-02	6.31E-02	3.15E-02	3.27E-02	1.49E-01	8.91E-02	9.15E-02	6.20E-02	6.25E-02	3.69E-01	2.42E-01	2.49E-01	2.47E-01	2.51E-01	1.64E+00	8.18E+00
5.0E-02	1.75E-02	6.31E-02	3.15E-02	3.27E-02	1.49E-01	8.91E-02	9.15E-02	6.20E-02	6.25E-02	3.68E-01	2.42E-01	2.49E-01	2.47E-01	2.51E-01	1.60E+00	8.13E+00
1.0E-01	1.75E-02	6.31E-02	3.15E-02	3.27E-02	1.49E-01	8.91E-02	9.15E-02	6.20E-02	6.25E-02	3.66E-01	2.42E-01	2.49E-01	2.47E-01	2.51E-01	1.48E+00	8.01E+00
1.5E-01	1.75E-02	6.31E-02	3.15E-02	3.27E-02	1.49E-01	8.91E-02	9.15E-02	6.20E-02	6.25E-02	3.63E-01	2.42E-01	2.49E-01	2.47E-01	2.51E-01	1.30E+00	7.82E+00
2.0E-01	1.75E-02	6.30E-02	3.15E-02	3.27E-02	1.49E-01	8.91E-02	9.15E-02	6.20E-02	6.25E-02	3.59E-01	2.42E-01	2.49E-01	2.47E-01	2.51E-01	1.08E+00	7.59E+00
3.0E-01	1.75E-02	6.30E-02	3.15E-02	3.27E-02	1.48E-01	8.90E-02	9.15E-02	6.20E-02	6.25E-02	3.47E-01	2.41E-01	2.49E-01	2.47E-01	2.51E-01	6.60E-01	7.14E+00
4.0E-01	1.75E-02	6.29E-02	3.15E-02	3.27E-02	1.47E-01	8.90E-02	9.14E-02	6.20E-02	6.25E-02	3.32E-01	2.41E-01	2.48E-01	2.46E-01	2.51E-01	3.46E-01	6.79E+00
5.0E-01	1.75E-02	6.28E-02	3.15E-02	3.27E-02	1.46E-01	8.90E-02	9.14E-02	6.20E-02	6.25E-02	3.13E-01	2.39E-01	2.46E-01	2.45E-01	2.50E-01	1.64E-01	6.54E+00
6.0E-01	1.75E-02	6.27E-02	3.15E-02	3.27E-02	1.44E-01	8.90E-02	9.14E-02	6.20E-02	6.25E-02	2.91E-01	2.37E-01	2.43E-01	2.43E-01	2.47E-01	7.63E-02	6.37E+00
7.0E-01	1.75E-02	6.26E-02	3.15E-02	3.27E-02	1.42E-01	8.90E-02	9.14E-02	6.20E-02	6.25E-02	2.66E-01	2.33E-01	2.39E-01	2.39E-01	2.43E-01	4.20E-02	6.22E+00
8.0E-01	1.75E-02	6.24E-02	3.15E-02	3.27E-02	1.40E-01	8.89E-02	9.13E-02	6.20E-02	6.25E-02	2.43E-01	2.28E-01	2.34E-01	2.34E-01	2.37E-01	3.16E-02	6.07E+00
1.0E+00	1.75E-02	6.21E-02	3.15E-02	3.26E-02	1.35E-01	8.88E-02	9.12E-02	6.20E-02	6.25E-02	1.94E-01	2.14E-01	2.18E-01	2.18E-01	2.20E-01	2.96E-02	5.70E+00
1.2E+00	1.75E-02	6.16E-02	3.14E-02	3.26E-02	1.29E-01	8.85E-02	9.09E-02	6.20E-02	6.25E-02	1.48E-01	1.95E-01	1.97E-01	1.97E-01	1.97E-01	2.72E-02	5.24E+00
1.4E+00	1.74E-02	6.11E-02	3.14E-02	3.26E-02	1.22E-01	8.81E-02	9.04E-02	6.20E-02	6.25E-02	1.10E-01	1.72E-01	1.71E-01	1.72E-01	1.72E-01	2.18E-02	4.75E+00
1.6E+00	1.74E-02	6.05E-02	3.14E-02	3.26E-02	1.14E-01	8.75E-02	8.97E-02	6.19E-02	6.25E-02	7.93E-02	1.46E-01	1.44E-01	1.47E-01	1.46E-01	1.57E-02	4.24E+00
1.8E+00	1.74E-02	5.98E-02	3.14E-02	3.26E-02	1.07E-01	8.67E-02	8.88E-02	6.19E-02	6.24E-02	5.71E-02	1.21E-01	1.18E-01	1.23E-01	1.21E-01	1.06E-02	3.77E+00
2.0E+00	1.74E-02	5.91E-02	3.14E-02	3.26E-02	9.87E-02	8.56E-02	8.76E-02	6.18E-02	6.23E-02	4.23E-02	9.72E-02	9.32E-02	1.01E-01	9.93E-02	6.82E-03	3.35E+00
2.4E+00	1.74E-02	5.75E-02	3.14E-02	3.26E-02	8.27E-02	8.27E-02	8.43E-02	6.15E-02	6.20E-02	2.82E-02	5.83E-02	5.44E-02	6.57E-02	6.37E-02	2.81E-03	2.67E+00
3.0E+00	1.73E-02	5.45E-02	3.13E-02	3.25E-02	6.02E-02	7.61E-02	7.70E-02	6.04E-02	6.09E-02	2.51E-02	2.45E-02	2.23E-02	3.15E-02	3.01E-02	1.37E-03	2.02E+00
4.0E+00	1.71E-02	4.88E-02	3.11E-02	3.22E-02	3.19E-02	6.07E-02	6.04E-02	5.67E-02	5.71E-02	2.15E-02	9.54E-03	9.50E-03	8.28E-03	7.80E-03	1.24E-03	1.50E+00
5.0E+00	1.69E-02	4.24E-02	3.06E-02	3.17E-02	1.68E-02	4.34E-02	4.22E-02	5.04E-02	5.05E-02	1.21E-02	8.92E-03	9.07E-03	3.01E-03	2.90E-03	7.71E-04	1.21E+00
6.0E+00	1.67E-02	3.58E-02	2.99E-02	3.08E-02	1.11E-02	2.80E-02	2.66E-02	4.24E-02	4.23E-02	5.30E-03	7.68E-03	7.50E-03	2.37E-03	2.34E-03	3.40E-04	9.76E-01
7.0E+00	1.64E-02	2.94E-02	2.88E-02	2.96E-02	9.86E-03	1.68E-02	1.55E-02	3.40E-02	3.38E-02	2.50E-03	5.31E-03	4.97E-03	2.34E-03	2.31E-03	1.46E-04	7.81E-01
8.0E+00	1.61E-02	2.36E-02	2.75E-02	2.81E-02	9.80E-03	9.63E-03	8.76E-03	2.63E-02	2.61E-02	1.83E-03	3.17E-03	2.85E-03	2.14E-03	2.10E-03	9.47E-05	6.25E-01
1.0E+01	1.50E-02	1.40E-02	2.40E-02	2.40E-02	8.50E-03	3.70E-03	3.60E-03	1.50E-02	1.40E-02	1.70E-03	9.50E-04	8.30E-04	1.40E-03	1.40E-03	8.80E-05	4.10E-01
1.5E+01	1.30E-02	3.30E-03	1.50E-02	1.40E-02	2.20E-03	2.70E-03	2.80E-03	3.00E-03	2.90E-03	5.20E-04	3.90E-04	4.10E-04	3.20E-04	3.00E-04	2.70E-05	1.80E-01
2.0E+01	1.10E-02	1.60E-03	7.60E-03	7.10E-03	4.30E-04	1.80E-03	1.70E-03	6.60E-04	6.20E-04	8.90E-05	2.80E-04	2.80E-04	7.10E-05	6.50E-05	4.60E-06	8.80E-02
3.0E+01	6.50E-03	1.40E-03	1.80E-03	1.50E-03	2.70E-04	4.40E-04	3.90E-04	4.50E-05	4.10E-05	4.80E-05	7.20E-05	6.30E-05	4.90E-06	4.30E-06	2.40E-06	2.90E-02
4.0E+01	3.70E-03	8.20E-04	4.50E-04	3.60E-04	1.70E-04	1.10E-04	8.70E-05	5.20E-06	4.50E-06	3.10E-05	1.70E-05	1.40E-05	5.40E-07	4.70E-07	1.50E-06	1.20E-02
6.0E+01	1.10E-03	2.20E-04	4.60E-05	3.10E-05	4.50E-05	1.00E-05	7.10E-06	1.80E-07	1.50E-07	7.90E-06	1.60E-06	1.10E-06	1.90E-08	1.50E-08	4.00E-07	3.10E-03
1.0E+02	1.50E-04	2.30E-05	2.00E-06	9.90E-07	4.60E-06	4.30E-07	2.10E-07	2.50E-09	1.60E-09	8.00E-07	6.80E-08	3.40E-08	2.60E-10	1.70E-10	4.00E-09	3.80E-04
E[keV]:	2.55E+01	3.81E+00	3.52E+00	3.35E+00	7.17E-01	6.02E-01	5.73E-01	3.74E-01	3.68E-01	9.50E-02	5.90E-02	5.90E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(1)	Total
0.0E+00	3.50E-02	1.61E-01	2.24E-01	3.55E-01	6.53E-01	8.31E-01	1.20E+00	1.45E+00	1.82E+00	2.56E+00	3.04E+00	4.04E+00	5.03E+00	6.53E+00	8.17E+00	8.18E+00
5.0E-02	3.50E-02	1.61E-01	2.24E-01	3.55E-01	6.53E-01	8.31E-01	1.20E+00	1.45E+00	1.82E+00	2.56E+00	3.04E+00	4.04E+00	5.02E+00	6.53E+00	8.13E+00	8.13E+00
1.0E-01	3.50E-02	1.61E-01	2.24E-01	3.55E-01	6.53E-01	8.31E-01	1.20E+00	1.45E+00	1.82E+00	2.55E+00	3.04E+00	4.03E+00	5.02E+00	6.53E+00	8.01E+00	8.01E+00
1.5E-01	3.50E-02	1.61E-01	2.24E-01	3.55E-01	6.53E-01	8.31E-01	1.20E+00	1.45E+00	1.82E+00	2.55E+00	3.03E+00	4.03E+00	5.01E+00	6.52E+00	7.82E+00	7.82E+00
2.0E-01	3.50E-02	1.61E-01	2.24E-01	3.55E-01	6.53E-01	8.31E-01	1.20E+00	1.44E+00	1.82E+00	2.54E+00	3.02E+00	4.02E+00	5.01E+00	6.51E+00	7.59E+00	7.59E+00
3.0E-01	3.50E-02	1.61E-01	2.24E-01	3.55E-01	6.51E-01	8.29E-01	1.19E+00	1.44E+00	1.82E+00	2.51E+00	2.99E+00	3.99E+00	4.98E+00	6.48E+00	7.14E+00	7.14E+00
4.0E-01	3.50E-02	1.61E-01	2.24E-01	3.55E-01	6.49E-01	8.27E-01	1.19E+00	1.44E+00	1.82E+00	2.48E+00	2.96E+00	3.95E+00	4.94E+00	6.44E+00	6.79E+00	6.79E+00
5.0E-01	3.50E-02	1.61E-01	2.24E-01	3.54E-01	6.46E-01	8.24E-01	1.18E+00	1.44E+00	1.81E+00	2.44E+00	2.92E+00	3.90E+00	4.88E+00	6.38E+00	6.54E+00	6.54E+00
6.0E-01	3.50E-02	1.60E-01	2.23E-01	3.54E-01	6.42E-01	8.20E-01	1.18E+00	1.43E+00	1.81E+00	2.39E+00	2.86E+00	3.84E+00	4.81E+00	6.29E+00	6.37E+00	6.37E+00
7.0E-01	3.50E-02	1.60E-01	2.23E-01	3.54E-01	6.38E-01	8.16E-01	1.18E+00	1.43E+00	1.80E+00	2.34E+00	2.81E+00	3.76E+00	4.72E+00	6.18E+00	6.22E+00	6.22E+00
8.0E-01	3.50E-02	1.60E-01	2.23E-01	3.54E-01	6.34E-01	8.11E-01	1.18E+00	1.42E+00	1.80E+00	2.29E+00	2.74E+00	3.68E+00	4.61E+00	6.04E+00	6.07E+00	6.07E+00
1.0E+00	3.50E-02	1.59E-01	2.22E-01	3.53E-01	6.23E-01	8.00E-01	1.17E+00	1.41E+00	1.79E+00	2.18E+00	2.60E+00	3.48E+00	4.35E+00	5.67E+00	5.70E+00	5.70E+00
1.2E+00	3.50E-02	1.58E-01	2.21E-01	3.51E-01	6.09E-01	7.86E-01	1.15E+00	1.40E+00	1.77E+00	2.07E+00	2.46E+00	3.25E+00	4.03E+00	5.22E+00	5.24E+00	5.24E+00
1.4E+00	3.48E-02	1.57E-01	2.20E-01	3.50E-01	5.94E-01	7.70E-01	1.13E+00	1.38E+00	1.76E+00	1.98E+00	2.32E+00	3.00E+00	3.69E+00	4.72E+00	4.74E+00	4.75E+00
1.6E+00	3.48E-02	1.56E-01	2.19E-01	3.49E-01	5.77E-01	7.52E-01	1.11E+00	1.36E+00	1.73E+00	1.89E+00	2.18E+00	2.76E+00	3.35E+00	4.22E+00	4.24E+00	4.24E+00
1.8E+00	3.48E-02	1.54E-01	2.17E-01	3.48E-01	5.62E-01	7.35E-01	1.09E+00	1.34E+00	1.71E+00	1.83E+00	2.07E+00	2.54E+00	3.03E+00	3.76E+00	3.77E+00	3.77E+00
2.0E+00	3.48E-02	1.53E-01	2.16E-01	3.46E-01	5.44E-01	7.15E-01	1.07E+00	1.31E+00	1.69E+00	1.77E+00	1.97E+00	2.34E+00	2.74E+00	3.34E+00	3.34E+00	3.35E+00
2.4E+00	3.48E-02	1.50E-01	2.13E-01	3.43E-01	5.08E-01	6.74E-01	1.01E+00	1.26E+00	1.63E+00	1.69E+00	1.80E+00	2.02E+00	2.28E+00	2.66E+00	2.67E+00	2.67E+00
3.0E+00	3.46E-02	1.44E-01	2.06E-01	3.36E-01	4.57E-01	6.09E-01	9.17E-01	1.16E+00	1.52E+00	1.57E+00	1.62E+00	1.71E+00	1.84E+00	2.02E+00	2.02E+00	2.02E+00
4.0E+00	3.42E-02	1.32E-01	1.94E-01	3.23E-01	3.87E-01	5.08E-01	7.50E-01	9.76E-01	1.32E+00	1.36E+00	1.38E+00	1.42E+00	1.45E+00	1.50E+00	1.50E+00	1.50E+00
5.0E+00	3.38E-02	1.19E-01	1.80E-01	3.07E-01	3.40E-01	4.27E-01	5.96E-01	7.97E-01	1.10E+00	1.12E+00	1.14E+00	1.18E+00	1.19E+00	1.21E+00	1.21E+00	1.21E+00
6.0E+00	3.34E-02	1.05E-01	1.65E-01	2.88E-01	3.10E-01	3.66E-01	4.72E-01	6.42E-01	8.96E-01	9.06E-01	9.22E-01	9.52E-01	9.61E-01	9.75E-01	9.76E-01	9.76E-01
7.0E+00	3.28E-02	9.16E-02	1.49E-01	2.68E-01	2.87E-01	3.21E-01	3.83E-01	5.19E-01	7.22E-01	7.27E-01	7.37E-01	7.57E-01	7.67E-01	7.80E-01	7.81E-01	7.81E-01
8.0E+00	3.22E-02	7.94E-02	1.34E-01	2.47E-01	2.66E-01	2.86E-01	3.21E-01	4.26E-01	5.83E-01	5.86E-01	5.93E-01	6.04E-01	6.12E-01	6.25E-01	6.25E-01	6.25E-01
1.0E+01	3.00E-02	5.80E-02	1.06E-01	2.02E-01	2.19E-01	2.26E-01	2.41E-01	3.01E-01	3.85E-01	3.88E-01	3.90E-01	3.93E-01	3.99E-01	4.07E-01	4.08E-01	4.10E-01
1.5E+01	2.60E-02	3.26E-02	6.26E-02	1.19E-01	1.23E-01	1.28E-01	1.40E-01	1.52E-01	1.69E-01	1.70E-01	1.71E-01	1.72E-01	1.74E-01	1.76E-01	1.76E-01	1.80E-01
2.0E+01	2.20E-02	2.52E-02	4.04E-02	6.88E-02	6.97E-02	7.33E-02	8.01E-02	8.27E-02	8.64E-02	8.66E-02	8.72E-02	8.83E-02	8.86E-02	8.90E-02	8.90E-02	8.80E-02
3.0E+01	1.30E-02	1.58E-02	1.94E-02	2.54E-02	2.59E-02	2.68E-02	2.84E-02	2.86E-02	2.88E-02	2.89E-02	2.90E-02	2.93E-02	2.93E-02	2.93E-02	2.93E-02	2.90E-02
4.0E+01	7.40E-03	9.04E-03	9.94E-03	1.14E-02	1.17E-02	1.19E-02	1.23E-02	1.23E-02	1.23E-02	1.24E-02	1.24E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.20E-02
6.0E+01	2.20E-03	2.64E-03	2.73E-03	2.86E-03	2.95E-03	2.97E-03	2.99E-03	3.00E-03	3.00E-03	3.01E-03	3.02E-03	3.02E-03	3.02E-03	3.02E-03	3.02E-03	3.10E-03
1.0E+02	3.00E-04	3.46E-04	3.50E-04	3.54E-04	3.63E-04	3.64E-04	3.65E-04	3.65E-04	3.65E-04	3.66E-04	3.67E-04	3.67E-04	3.67E-04	3.67E-04	3.67E-04	3.80E-04
E[keV]:	2.55E+01	3.81E+00	3.52E+00	3.35E+00	7.17E-01	6.02E-01	5.73E-01	3.74E-01	3.68E-01	9.50E-02	5.90E-02	5.90E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																
0.0E+00	4.13E+00	5.61E+00	6.35E+00	6.73E+00	6.97E+00	7.34E+00	7.52E+00	7.82E+00	7.95E+00	8.01E+00	8.14E+00	8.17E+00	8.18E+00			
5.0E-02	4.09E+00	5.57E+00	6.31E+00	6.68E+00	6.93E+00	7.30E+00	7.48E+00	7.78E+00	7.91E+00	7.97E+00	8.10E+00	8.13E+00	8.13E+00			
1.0E-01	3.97E+00	5.45E+00	6.19E+00	6.56E+00	6.81E+00	7.18E+00	7.35E+00	7.65E+00	7.78E+00	7.85E+00	7.97E+00	8.01E+00	8.01E+00			
1.5E-01	3.79E+00	5.27E+00	6.00E+00	6.38E+00	6.62E+00	6.99E+00	7.17E+00	7.47E+00	7.60E+00	7.66E+00	7.79E+00	7.82E+00	7.82E+00			
2.0E-01	3.57E+00	5.05E+00	5.77E+00	6.15E+00	6.40E+00	6.76E+00	6.94E+00	7.24E+00	7.37E+00	7.43E+00	7.56E+00	7.59E+00	7.59E+00			
3.0E-01	3.15E+00	4.63E+00	5.33E+00	5.70E+00	5.95E+00	6.32E+00	6.49E+00	6.79E+00	6.92E+00	6.98E+00	7.11E+00	7.14E+00	7.14E+00			
4.0E-01	2.84E+00	4.31E+00	4.97E+00	5.35E+00	5.60E+00	5.96E+00	6.14E+00	6.43E+00	6.57E+00	6.63E+00	6.75E+00	6.79E+00	6.79E+00			
5.0E-01	2.64E+00	4.11E+00	4.73E+00	5.11E+00	5.36E+00	5.72E+00	5.90E+00	6.19E+00	6.32E+00	6.38E+00	6.51E+00	6.55E+00	6.54E+00			
6.0E-01	2.53E+00	3.98E+00	4.56E+00	4.93E+00	5.18E+00	5.55E+00	5.72E+00	6.01E+00	6.14E+00	6.21E+00	6.33E+00	6.37E+00	6.37E+00			
7.0E-01	2.46E+00	3.88E+00	4.41E+00	4.79E+00	5.04E+00	5.40E+00	5.58E+00	5.86E+00	6.00E+00	6.06E+00	6.18E+00	6.22E+00	6.22E+00			
8.0E-01	2.39E+00	3.78E+00	4.27E+00	4.64E+00	4.89E+00	5.26E+00	5.43E+00	5.71E+00	5.84E+00	5.91E+00	6.03E+00	6.07E+00	6.07E+00			
1.0E+00	2.22E+00	3.52E+00	3.91E+00	4.28E+00	4.53E+00	4.90E+00	5.08E+00	5.35E+00	5.48E+00	5.54E+00	5.66E+00	5.70E+00	5.70E+00			
1.2E+00	2.00E+00	3.18E+00	3.47E+00	3.85E+00	4.09E+00	4.46E+00	4.63E+00	4.89E+00	5.02E+00	5.09E+00	5.21E+00	5.24E+00	5.24E+00			
1.4E+00	1.74E+00	2.77E+00	2.99E+00	3.36E+00	3.61E+00	3.97E+00	4.15E+00	4.39E+00	4.53E+00	4.59E+00	4.71E+00	4.74E+00	4.75E+00			
1.6E+00	1.48E+00	2.35E+00	2.51E+00	2.88E+00	3.13E+00	3.49E+00	3.66E+00	3.89E+00	4.02E+00	4.08E+00	4.20E+00	4.24E+00	4.24E+00			
1.8E+00	1.23E+00	1.94E+00	2.06E+00	2.43E+00	2.68E+00	3.03E+00	3.21E+00	3.42E+00	3.55E+00	3.61E+00	3.73E+00	3.77E+00	3.77E+00			
2.0E+00	1.01E+00	1.57E+00	1.66E+00	2.03E+00	2.28E+00	2.62E+00	2.80E+00	3.00E+00	3.13E+00	3.19E+00	3.31E+00	3.34E+00	3.35E+00			
2.4E+00	6.48E-01	9.82E-01	1.04E+00	1.41E+00	1.66E+00	1.99E+00	2.16E+00	2.32E+00	2.45E+00	2.52E+00	2.63E+00	2.67E+00	2.67E+00			
3.0E+00	3.08E-01	4.46E-01	4.96E-01	8.62E-01	1.10E+00	1.41E+00	1.56E+00	1.68E+00	1.81E+00	1.88E+00	1.99E+00	2.02E+00	2.02E+00			
4.0E+00	8.12E-02	1.38E-01	1.81E-01	5.24E-01	7.51E-01	9.92E-01	1.11E+00	1.18E+00	1.31E+00	1.37E+00	1.47E+00	1.50E+00	1.50E+00			
5.0E+00	3.02E-02	8.43E-02	1.09E-01	4.12E-01	6.13E-01	7.82E-01	8.69E-01	9.02E-01	1.03E+00	1.09E+00	1.18E+00	1.21E+00	1.21E+00			
6.0E+00	2.39E-02	6.92E-02	7.98E-02	3.34E-01	5.03E-01	6.10E-01	6.66E-01	6.88E-01	8.11E-01	8.71E-01	9.42E-01	9.76E-01	9.76E-01			
7.0E+00	2.34E-02	5.39E-02	5.89E-02	2.62E-01	3.98E-01	4.60E-01	4.93E-01	5.13E-01	6.31E-01	6.89E-01	7.48E-01	7.81E-01	7.81E-01			
8.0E+00	2.13E-02	3.90E-02	4.27E-02	1.99E-01	3.04E-01	3.39E-01	3.59E-01	3.78E-01	4.91E-01	5.46E-01	5.93E-01	6.25E-01	6.25E-01			
1.0E+01	1.41E-02	1.93E-02	2.27E-02	1.07E-01	1.67E-01	1.81E-01	1.89E-01	2.06E-01	3.02E-01	3.50E-01	3.78E-01	4.08E-01	4.10E-01			
1.5E+01	3.11E-03	5.53E-03	6.57E-03	2.40E-02	3.60E-02	4.72E-02	5.26E-02	5.70E-02	1.13E-01	1.43E-01	1.50E-01	1.76E-01	1.80E-01			
2.0E+01	6.79E-04	2.36E-03	2.54E-03	6.26E-03	8.90E-03	1.57E-02	1.93E-02	2.02E-02	4.86E-02	6.38E-02	6.70E-02	8.90E-02	8.80E-02			
3.0E+01	4.78E-05	4.44E-04	5.40E-04	7.86E-04	9.66E-04	2.53E-03	3.41E-03	3.95E-03	9.95E-03	1.35E-02	1.63E-02	2.93E-02	2.90E-02			
4.0E+01	6.48E-06	9.65E-05	1.58E-04	1.85E-04	2.06E-04	5.54E-04	7.74E-04	1.11E-03	2.55E-03	3.45E-03	5.09E-03	1.25E-02	1.20E-02			
6.0E+01	5.66E-07	8.17E-06	2.40E-05	2.49E-05	2.56E-05	5.40E-05	7.40E-05	1.64E-04	2.88E-04	3.80E-04	8.20E-04	3.02E-03	3.10E-03			
1.0E+02	4.21E-08	3.14E-07	1.91E-06	1.92E-06	1.93E-06	2.77E-06	3.63E-06	1.28E-05	1.68E-05	2.08E-05	6.68E-05	3.67E-04	3.80E-04			
E[keV]:	0.00E+00	5.90E-02	9.50E-02	3.68E-01	3.74E-01	5.73E-01	6.02E-01	7.17E-01	3.35E+00	3.52E+00	3.81E+00	2.55E+01				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10-2
0.0
47Ag
Σi Ji(Q)
Q

Z=48

Compton profiles for the single orbitals and binding energies

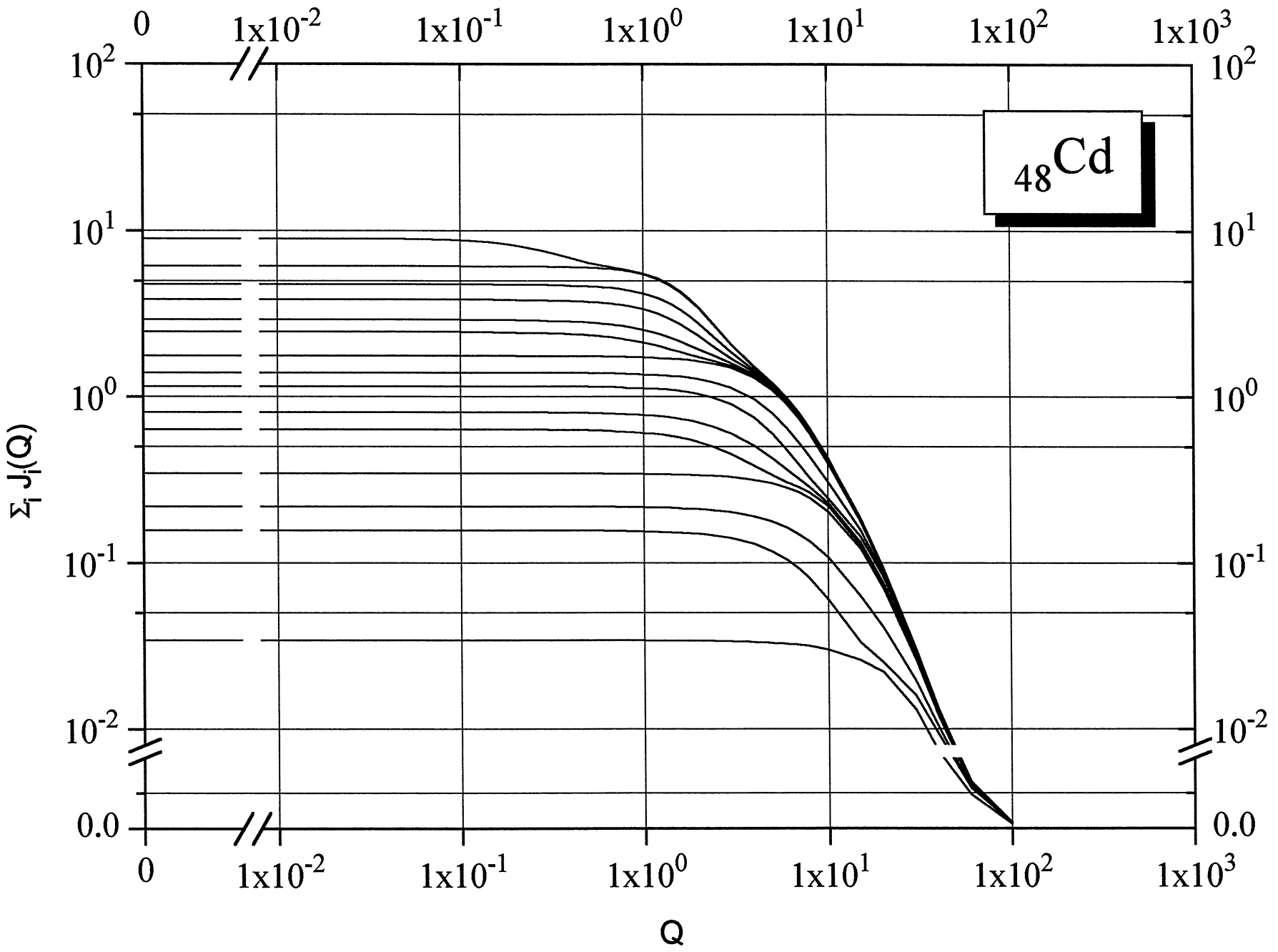
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	Total
0.0E+00	1.71E-02	6.15E-02	3.07E-02	3.19E-02	1.45E-01	8.64E-02	8.88E-02	6.00E-02	6.05E-02	3.52E-01	2.30E-01	2.37E-01	2.24E-01	2.28E-01	1.45E+00	9.04E+00
5.0E-02	1.71E-02	6.15E-02	3.07E-02	3.19E-02	1.45E-01	8.64E-02	8.88E-02	6.00E-02	6.05E-02	3.51E-01	2.30E-01	2.37E-01	2.24E-01	2.28E-01	1.42E+00	8.98E+00
1.0E-01	1.71E-02	6.15E-02	3.07E-02	3.19E-02	1.45E-01	8.64E-02	8.88E-02	6.00E-02	6.05E-02	3.50E-01	2.30E-01	2.37E-01	2.24E-01	2.28E-01	1.33E+00	8.80E+00
1.5E-01	1.71E-02	6.15E-02	3.07E-02	3.19E-02	1.45E-01	8.64E-02	8.88E-02	6.00E-02	6.05E-02	3.47E-01	2.30E-01	2.37E-01	2.24E-01	2.28E-01	1.20E+00	8.53E+00
2.0E-01	1.71E-02	6.15E-02	3.07E-02	3.19E-02	1.44E-01	8.64E-02	8.88E-02	6.00E-02	6.05E-02	3.43E-01	2.30E-01	2.37E-01	2.24E-01	2.28E-01	1.04E+00	8.20E+00
3.0E-01	1.71E-02	6.14E-02	3.07E-02	3.19E-02	1.44E-01	8.64E-02	8.88E-02	6.00E-02	6.05E-02	3.33E-01	2.30E-01	2.37E-01	2.24E-01	2.28E-01	6.94E-01	7.49E+00
4.0E-01	1.71E-02	6.14E-02	3.07E-02	3.19E-02	1.43E-01	8.64E-02	8.88E-02	6.00E-02	6.05E-02	3.20E-01	2.29E-01	2.36E-01	2.24E-01	2.28E-01	4.09E-01	6.88E+00
5.0E-01	1.71E-02	6.13E-02	3.07E-02	3.19E-02	1.42E-01	8.63E-02	8.88E-02	6.00E-02	6.05E-02	3.03E-01	2.28E-01	2.35E-01	2.23E-01	2.27E-01	2.19E-01	6.45E+00
6.0E-01	1.71E-02	6.12E-02	3.07E-02	3.19E-02	1.40E-01	8.63E-02	8.87E-02	6.00E-02	6.05E-02	2.84E-01	2.26E-01	2.33E-01	2.22E-01	2.26E-01	1.12E-01	6.18E+00
7.0E-01	1.71E-02	6.11E-02	3.07E-02	3.19E-02	1.38E-01	8.63E-02	8.87E-02	6.00E-02	6.05E-02	2.63E-01	2.24E-01	2.30E-01	2.20E-01	2.24E-01	6.05E-02	5.99E+00
8.0E-01	1.71E-02	6.09E-02	3.07E-02	3.19E-02	1.36E-01	8.63E-02	8.87E-02	6.00E-02	6.05E-02	2.40E-01	2.20E-01	2.25E-01	2.17E-01	2.20E-01	3.98E-02	5.84E+00
1.0E+00	1.71E-02	6.06E-02	3.07E-02	3.19E-02	1.31E-01	8.61E-02	8.85E-02	6.00E-02	6.05E-02	1.95E-01	2.08E-01	2.12E-01	2.07E-01	2.10E-01	3.25E-02	5.54E+00
1.2E+00	1.70E-02	6.02E-02	3.07E-02	3.19E-02	1.26E-01	8.59E-02	8.83E-02	5.99E-02	6.05E-02	1.52E-01	1.91E-01	1.94E-01	1.93E-01	1.94E-01	3.17E-02	5.18E+00
1.4E+00	1.70E-02	5.97E-02	3.07E-02	3.19E-02	1.20E-01	8.56E-02	8.79E-02	5.99E-02	6.05E-02	1.15E-01	1.71E-01	1.71E-01	1.74E-01	1.74E-01	2.75E-02	4.76E+00
1.6E+00	1.70E-02	5.91E-02	3.06E-02	3.19E-02	1.13E-01	8.50E-02	8.73E-02	5.99E-02	6.05E-02	8.46E-02	1.48E-01	1.47E-01	1.53E-01	1.53E-01	2.13E-02	4.31E+00
1.8E+00	1.70E-02	5.85E-02	3.06E-02	3.19E-02	1.06E-01	8.43E-02	8.64E-02	5.99E-02	6.04E-02	6.17E-02	1.25E-01	1.22E-01	1.32E-01	1.31E-01	1.52E-02	3.87E+00
2.0E+00	1.70E-02	5.78E-02	3.06E-02	3.19E-02	9.80E-02	8.34E-02	8.54E-02	5.98E-02	6.04E-02	4.57E-02	1.03E-01	9.89E-02	1.11E-01	1.10E-01	1.02E-02	3.46E+00
2.4E+00	1.70E-02	5.63E-02	3.06E-02	3.18E-02	8.29E-02	8.08E-02	8.25E-02	5.95E-02	6.01E-02	2.94E-02	6.41E-02	6.01E-02	7.56E-02	7.38E-02	4.32E-03	2.77E+00
3.0E+00	1.69E-02	5.36E-02	3.05E-02	3.17E-02	6.13E-02	7.49E-02	7.60E-02	5.87E-02	5.92E-02	2.48E-02	2.82E-02	2.56E-02	3.85E-02	3.71E-02	1.79E-03	2.08E+00
4.0E+00	1.67E-02	4.82E-02	3.03E-02	3.15E-02	3.34E-02	6.08E-02	6.07E-02	5.55E-02	5.59E-02	2.23E-02	1.00E-02	9.86E-03	1.09E-02	1.03E-02	1.56E-03	1.52E+00
5.0E+00	1.65E-02	4.21E-02	2.99E-02	3.10E-02	1.78E-02	4.45E-02	4.34E-02	5.00E-02	5.01E-02	1.35E-02	8.94E-03	9.15E-03	3.69E-03	3.54E-03	1.06E-03	1.22E+00
6.0E+00	1.62E-02	3.58E-02	2.92E-02	3.02E-02	1.13E-02	2.96E-02	2.81E-02	4.26E-02	4.26E-02	6.19E-03	8.05E-03	7.94E-03	2.56E-03	2.54E-03	4.98E-04	9.91E-01
7.0E+00	1.61E-02	2.97E-02	2.83E-02	2.91E-02	9.73E-03	1.82E-02	1.68E-02	3.48E-02	3.46E-02	2.84E-03	5.87E-03	5.53E-03	2.52E-03	2.51E-03	2.13E-04	8.00E-01
8.0E+00	1.58E-02	2.41E-02	2.71E-02	2.77E-02	9.62E-03	1.07E-02	9.67E-03	2.74E-02	2.71E-02	1.90E-03	3.65E-03	3.31E-03	2.38E-03	2.35E-03	1.24E-04	6.44E-01
1.0E+01	1.50E-02	1.50E-02	2.40E-02	2.40E-02	8.60E-03	4.00E-03	3.80E-03	1.60E-02	1.50E-02	1.80E-03	1.10E-03	9.90E-04	1.70E-03	1.60E-03	1.10E-04	4.30E-01
1.5E+01	1.30E-02	3.60E-03	1.50E-02	1.50E-02	2.50E-03	2.60E-03	2.80E-03	3.40E-03	3.30E-03	6.00E-04	4.00E-04	4.20E-04	4.00E-04	3.80E-04	3.90E-05	1.80E-01
2.0E+01	1.10E-02	1.60E-03	7.90E-03	7.40E-03	4.80E-04	1.90E-03	1.80E-03	7.60E-04	7.10E-04	1.10E-04	3.10E-04	3.00E-04	9.10E-05	8.50E-05	6.70E-06	9.20E-02
3.0E+01	6.60E-03	1.40E-03	1.90E-03	1.70E-03	2.70E-04	4.90E-04	4.30E-04	5.40E-05	4.90E-05	4.90E-05	8.30E-05	7.20E-05	6.50E-06	5.80E-06	3.00E-06	3.10E-02
4.0E+01	3.80E-03	8.50E-04	5.00E-04	4.00E-04	1.80E-04	1.20E-04	9.80E-05	6.30E-06	5.50E-06	3.30E-05	2.00E-05	1.60E-05	7.40E-07	6.40E-07	2.00E-05	1.30E-02
6.0E+01	1.20E-03	2.30E-04	5.30E-06	3.50E-05	4.90E-05	1.20E-05	9.20E-06	2.30E-07	1.80E-07	8.90E-06	2.00E-06	1.40E-06	2.70E-08	2.10E-08	5.50E-07	3.30E-03
1.0E+02	1.70E-04	2.60E-05	2.40E-06	1.10E-06	5.10E-06	5.10E-07	2.50E-07	3.10E-09	2.00E-09	9.30E-07	8.40E-08	4.10E-08	3.60E-10	2.30E-10	5.70E-08	4.10E-04
E[keV]:	2.67E+01	4.02E+00	3.73E+00	3.54E+00	7.70E-01	6.51E-01	6.17E-01	4.11E-01	4.05E-01	1.08E-01	6.70E-02	6.70E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	Total
0.0E+00	3.42E-02	1.57E-01	2.19E-01	3.46E-01	6.36E-01	8.09E-01	1.16E+00	1.40E+00	1.77E+00	2.47E+00	2.93E+00	3.88E+00	4.78E+00	6.14E+00	9.04E+00	9.04E+00
5.0E-02	3.42E-02	1.57E-01	2.19E-01	3.46E-01	6.36E-01	8.09E-01	1.16E+00	1.40E+00	1.77E+00	2.47E+00	2.93E+00	3.88E+00	4.77E+00	6.14E+00	8.98E+00	8.98E+00
1.0E-01	3.42E-02	1.57E-01	2.19E-01	3.46E-01	6.36E-01	8.09E-01	1.16E+00	1.40E+00	1.77E+00	2.47E+00	2.93E+00	3.88E+00	4.77E+00	6.14E+00	8.80E+00	8.80E+00
1.5E-01	3.42E-02	1.57E-01	2.19E-01	3.46E-01	6.36E-01	8.09E-01	1.16E+00	1.40E+00	1.77E+00	2.46E+00	2.92E+00	3.87E+00	4.77E+00	6.13E+00	8.53E+00	8.53E+00
2.0E-01	3.42E-02	1.57E-01	2.19E-01	3.46E-01	6.34E-01	8.07E-01	1.16E+00	1.40E+00	1.77E+00	2.45E+00	2.91E+00	3.86E+00	4.76E+00	6.12E+00	8.20E+00	8.20E+00
3.0E-01	3.42E-02	1.57E-01	2.18E-01	3.46E-01	6.34E-01	8.07E-01	1.16E+00	1.40E+00	1.76E+00	2.43E+00	2.89E+00	3.84E+00	4.74E+00	6.10E+00	7.49E+00	7.49E+00
4.0E-01	3.42E-02	1.57E-01	2.18E-01	3.46E-01	6.22E-01	8.05E-01	1.16E+00	1.40E+00	1.76E+00	2.40E+00	2.86E+00	3.81E+00	4.70E+00	6.07E+00	6.89E+00	6.88E+00
5.0E-01	3.42E-02	1.57E-01	2.18E-01	3.46E-01	6.30E-01	8.02E-01	1.16E+00	1.40E+00	1.76E+00	2.37E+00	2.82E+00	3.76E+00	4.65E+00	6.02E+00	6.45E+00	6.45E+00
6.0E-01	3.42E-02	1.57E-01	2.18E-01	3.46E-01	6.26E-01	7.98E-01	1.15E+00	1.39E+00	1.76E+00	2.32E+00	2.78E+00	3.71E+00	4.60E+00	5.95E+00	6.18E+00	6.18E+00
7.0E-01	3.42E-02	1.56E-01	2.18E-01	3.45E-01	6.21E-01	7.94E-01	1.15E+00	1.39E+00	1.75E+00	2.28E+00	2.73E+00	3.65E+00	4.53E+00	5.87E+00	5.99E+00	5.99E+00
8.0E-01	3.42E-02	1.56E-01	2.17E-01	3.45E-01	6.17E-01	7.90E-01	1.14E+00	1.38E+00	1.75E+00	2.23E+00	2.67E+00	3.57E+00	4.44E+00	5.76E+00	5.83E+00	5.84E+00
1.0E+00	3.42E-02	1.55E-01	2.17E-01	3.44E-01	6.06E-01	7.79E-01	1.13E+00	1.37E+00	1.74E+00	2.13E+00	2.54E+00	3.39E+00	4.22E+00	5.48E+00	5.54E+00	5.54E+00
1.2E+00	3.40E-02	1.54E-01	2.16E-01	3.43E-01	5.95E-01	7.67E-01	1.12E+00	1.36E+00	1.72E+00	2.03E+00	2.41E+00	3.19E+00	3.96E+00	5.12E+00	5.18E+00	5.18E+00
1.4E+00	3.40E-02	1.53E-01	2.15E-01	3.42E-01	5.82E-01	7.54E-01	1.11E+00	1.34E+00	1.71E+00	1.94E+00	2.28E+00	2.96E+00	3.66E+00	4.70E+00	4.76E+00	4.76E+00
1.6E+00	3.40E-02	1.52E-01	2.13E-01	3.41E-01	5.67E-01	7.37E-01	1.09E+00	1.33E+00	1.69E+00	1.86E+00	2.15E+00	2.74E+00	3.35E+00	4.27E+00	4.31E+00	4.31E+00
1.8E+00	3.40E-02	1.51E-01	2.12E-01	3.40E-01	5.52E-01	7.20E-01	1.07E+00	1.31E+00	1.67E+00	1.79E+00	2.04E+00	2.53E+00	3.06E+00	3.84E+00	3.87E+00	3.87E+00
2.0E+00	3.40E-02	1.50E-01	2.11E-01	3.38E-01	5.34E-01	7.01E-01	1.04E+00	1.28E+00	1.64E+00	1.74E+00	1.94E+00	2.34E+00	2.78E+00	3.44E+00	3.46E+00	3.46E+00
2.4E+00	3.40E-02	1.47E-01	2.08E-01	3.35E-01	5.01E-01	6.62E-01	9.92E-01	1.23E+00	1.59E+00	1.65E+00	1.78E+00	2.02E+00	2.32E+00	2.76E+00	2.77E+00	2.77E+00
3.0E+00	3.39E-02	1.41E-01	2.02E-01	3.29E-01	4.51E-01	6.01E-01	9.05E-01	1.14E+00	1.50E+00	1.54E+00	1.60E+00	1.70E+00	1.86E+00	2.08E+00	2.08E+00	2.08E+00
4.0E+00	3.34E-02	1.30E-01	1.90E-01	3.16E-01	3.83E-01	5.05E-01	7.48E-01	9.70E-01	1.31E+00	1.35E+00	1.37E+00	1.41E+00	1.45E+00	1.51E+00	1.52E+00	1.52E+00
5.0E+00	3.30E-02	1.17E-01	1.77E-01	3.01E-01	3.37E-01	4.26E-01	5.99E-01	7.99E-01	1.10E+00	1.13E+00	1.14E+00	1.18E+00	1.20E+00	1.22E+00	1.22E+00	1.22E+00
6.0E+00	3.26E-02	1.04E-01	1.63E-01	2.83E-01	3.06E-01	3.65E-01	4.78E-01	6.48E-01	9.04E-01	9.16E-01	9.32E-01	9.64E-01	9.74E-01	9.89E-01	9.90E-01	9.91E-01
7.0E+00	3.22E-02	9.16E-02	1.48E-01	2.65E-01	2.84E-01	3.20E-01	3.88E-01	5.27E-01	7.34E-01	7.40E-01	7.52E-01	7.74E-01	7.84E-01	7.99E-01	8.00E-01	8.00E-01
8.0E+00	3.16E-02	7.98E-02	1.34E-01	2.45E-01	2.64E-01	2.85E-01	3.24E-01	4.34E-01	5.96E-01	6.00E-01	6.07E-01	6.21E-01	6.30E-01	6.44E-01	6.45E-01	6.44E-01
1.0E+01	3.00E-02	6.00E-02	1.08E-01	2.04E-01	2.21E-01	2.29E-01	2.44E-01	3.08E-01	3.98E-01	4.02E-01	4.04E-01	4.08E-01	4.15E-01	4.25E-01	4.25E-01	4.30E-01
1.5E+01	2.60E-02	3.32E-02	6.32E-02	1.23E-01	1.28E-01	1.33E-01	1.45E-01	1.58E-01	1.78E-01	1.79E-01	1.80E-01	1.82E-01	1.83E-01	1.86E-01	1.86E-01	1.80E-01
2.0E+01	2.20E-02	2.52E-02	4.10E-02	7.06E-02	7.16E-02	7.54E-02	8.26E-02	8.56E-02	8.99E-02	9.01E-02	9.07E-02	9.19E-02	9.23E-02	9.28E-02	9.28E-02	9.20E-02
3.0E+01	1.32E-02	1.60E-02	1.98E-02	2.66E-02	2.71E-02	2.81E-02	2.98E-02	3.01E-02	3.03E-02	3.04E-02	3.06E-02	3.09E-02	3.09E-02	3.10E-02	3.10E-02	3.10E-02
4.0E+01	7.60E-03	9.30E-03	1.03E-02	1.19E-02	1.23E-02	1.25E-02	1.29E-02	1.29E-02	1.30E-02	1.30E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.32E-02	1.32E-02
6.0E+01	2.40E-03	2.86E-03	2.87E-03	3.01E-03	3.11E-03	3.13E-03	3.17E-03	3.17E-03	3.18E-03	3.19E-03	3.19E-03	3.19E-03	3.19E-03	3.20E-03	3.20E-03	3.30E-03
1.0E+02	3.40E-04	3.92E-04	3.97E-04	4.01E-04	4.11E-04	4.12E-04	4.13E-04	4.13E-04	4.13E-04	4.15E-04	4.15E-04	4.16E-04	4.16E-04	4.16E-04	4.16E-04	4.10E-04
E[keV]:	2.67E+01	4.02E+00	3.73E+00	3.54E+00	7.70E-01	6.51E-01	6.17E-01	4.11E-01	4.05E-01	1.08E-01	6.70E-02	6.70E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																
0.0E+00	5.16E+00	6.57E+00	7.28E+00	7.64E+00	7.88E+00	8.23E+00	8.41E+00	8.70E+00	8.82E+00	8.89E+00	9.01E+00	9.04E+00	9.04E+00			
5.0E-02	5.10E+00	6.51E+00	7.21E+00	7.58E+00	7.82E+00	8.17E+00	8.35E+00	8.63E+00	8.76E+00	8.82E+00	8.95E+00	8.98E+00	8.98E+00			
1.0E-01	4.92E+00	6.33E+00	7.03E+00	7.39E+00	7.63E+00	7.99E+00	8.16E+00	8.45E+00	8.58E+00	8.64E+00	8.76E+00	8.80E+00	8.80E+00			
1.5E-01	4.66E+00	6.07E+00	6.77E+00	7.13E+00	7.37E+00	7.72E+00	7.90E+00	8.19E+00	8.31E+00	8.38E+00	8.50E+00	8.53E+00	8.53E+00			
2.0E-01	4.34E+00	5.75E+00	6.44E+00	6.80E+00	7.04E+00	7.40E+00	7.57E+00	7.86E+00	7.98E+00	8.05E+00	8.17E+00	8.20E+00	8.20E+00			
3.0E-01	3.65E+00	5.06E+00	5.73E+00	6.09E+00	6.33E+00	6.68E+00	6.86E+00	7.14E+00	7.27E+00	7.33E+00	7.46E+00	7.49E+00	7.49E+00			
4.0E-01	3.08E+00	4.48E+00	5.12E+00	5.49E+00	5.73E+00	6.08E+00	6.25E+00	6.54E+00	6.67E+00	6.73E+00	6.85E+00	6.89E+00	6.88E+00			
5.0E-01	2.69E+00	4.09E+00	4.69E+00	5.06E+00	5.30E+00	5.65E+00	5.82E+00	6.11E+00	6.24E+00	6.30E+00	6.42E+00	6.45E+00	6.45E+00			
6.0E-01	2.47E+00	3.85E+00	4.42E+00	4.78E+00	5.02E+00	5.38E+00	5.55E+00	5.83E+00	5.96E+00	6.02E+00	6.14E+00	6.18E+00	6.18E+00			
7.0E-01	2.34E+00	3.71E+00	4.24E+00	4.60E+00	4.84E+00	5.20E+00	5.37E+00	5.65E+00	5.77E+00	5.83E+00	5.96E+00	5.99E+00	5.99E+00			
8.0E-01	2.27E+00	3.61E+00	4.09E+00	4.45E+00	4.69E+00	5.05E+00	5.22E+00	5.49E+00	5.62E+00	5.68E+00	5.80E+00	5.83E+00	5.84E+00			
1.0E+00	2.15E+00	3.42E+00	3.81E+00	4.17E+00	4.41E+00	4.76E+00	4.94E+00	5.20E+00	5.33E+00	5.39E+00	5.51E+00	5.54E+00	5.54E+00			
1.2E+00	2.00E+00	3.16E+00	3.46E+00	3.82E+00	4.06E+00	4.42E+00	4.59E+00	4.84E+00	4.97E+00	5.03E+00	5.15E+00	5.18E+00	5.18E+00			
1.4E+00	1.80E+00	2.82E+00	3.05E+00	3.41E+00	3.65E+00	4.01E+00	4.18E+00	4.42E+00	4.54E+00	4.61E+00	4.72E+00	4.76E+00	4.76E+00			
1.6E+00	1.57E+00	2.46E+00	2.63E+00	2.99E+00	3.23E+00	3.58E+00	3.75E+00	3.97E+00	4.10E+00	4.16E+00	4.28E+00	4.31E+00	4.31E+00			
1.8E+00	1.34E+00	2.08E+00	2.21E+00	2.57E+00	2.81E+00	3.15E+00	3.32E+00	3.53E+00	3.66E+00	3.72E+00	3.84E+00	3.87E+00	3.87E+00			
2.0E+00	1.12E+00	1.73E+00	1.82E+00	2.18E+00	2.42E+00	2.76E+00	2.93E+00	3.12E+00	3.25E+00	3.31E+00	3.43E+00	3.46E+00	3.46E+00			
2.4E+00	7.54E-01	1.12E+00	1.18E+00	1.54E+00	1.78E+00	2.11E+00	2.27E+00	2.44E+00	2.56E+00	2.63E+00	2.74E+00	2.77E+00	2.77E+00			
3.0E+00	3.80E-01	5.39E-01	5.89E-01	9.44E-01	1.18E+00	1.48E+00	1.63E+00	1.75E+00	1.88E+00	1.94E+00	2.05E+00	2.08E+00	2.08E+00			
4.0E+00	1.09E-01	1.68E-01	2.13E-01	5.48E-01	7.70E-01	1.01E+00	1.13E+00	1.20E+00	1.33E+00	1.39E+00	1.48E+00	1.52E+00	1.52E+00			
5.0E+00	3.81E-02	9.26E-02	1.20E-01	4.20E-01	6.20E-01	7.94E-01	8.83E-01	9.18E-01	1.04E+00	1.10E+00	1.19E+00	1.22E+00	1.22E+00			
6.0E+00	2.65E-02	7.43E-02	8.67E-02	3.42E-01	5.13E-01	6.25E-01	6.84E-01	7.07E-01	8.28E-01	8.86E-01	9.58E-01	9.90E-01	9.91E-01			
7.0E+00	2.56E-02	5.94E-02	6.51E-02	2.73E-01	4.12E-01	4.79E-01	5.16E-01	5.35E-01	6.51E-01	7.08E-01	7.67E-01	8.00E-01	8.00E-01			
8.0E+00	2.39E-02	4.44E-02	4.82E-02	2.11E-01	3.20E-01	3.59E-01	3.80E-01	4.00E-01	5.11E-01	5.65E-01	6.13E-01	6.45E-01	6.44E-01			
1.0E+01	1.66E-02	2.28E-02	2.64E-02	1.16E-01	1.80E-01	1.96E-01	2.04E-01	2.21E-01	3.17E-01	3.65E-01	3.95E-01	4.25E-01	4.30E-01			
1.5E+01	3.96E-03	6.44E-03	7.64E-03	2.74E-02	4.10E-02	5.22E-02	5.74E-02	6.24E-02	1.22E-01	1.52E-01	1.60E-01	1.86E-01	1.80E-01			
2.0E+01	8.87E-04	2.71E-03	2.93E-03	7.19E-03	1.02E-02	1.74E-02	2.12E-02	2.22E-02	5.18E-02	6.76E-02	7.08E-02	9.28E-02	9.20E-02			
3.0E+01	6.68E-05	5.21E-04	6.19E-04	9.13E-04	1.13E-03	2.85E-03	3.83E-03	4.37E-03	1.12E-02	1.50E-02	1.78E-02	3.10E-02	3.10E-02			
4.0E+01	4.68E-05	1.51E-04	2.17E-04	2.50E-04	2.75E-04	6.67E-04	9.07E-04	1.27E-03	2.87E-03	3.87E-03	5.57E-03	1.32E-02	1.30E-02			
6.0E+01	1.33E-06	1.09E-05	2.87E-05	2.98E-05	3.07E-05	6.35E-05	8.75E-05	1.86E-04	3.26E-04	3.36E-04	7.96E-04	3.20E-03	3.30E-03			
1.0E+02	1.17E-07	4.49E-07	2.31E-06	2.32E-06	2.33E-06	3.33E-06	4.35E-06	1.46E-05	1.90E-05	2.38E-05	7.58E-05	4.16E-04	4.10E-04			
E[keV]:	0.00E+00	6.70E-02	1.08E-01	4.05E-01	4.11E-01	6.17E-01	6.51E-01	7.70E-01	3.54E+00	3.73E+00	4.02E+00	2.67E+01				


0
1x10-2
1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
48Cd
Σi Ji(Q)
Q

z=49

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(1)	Total
0.0E+00	1.67E-02	6.00E-02	2.99E-02	3.11E-02	1.41E-01	8.38E-02	8.63E-02	5.81E-02	5.86E-02	3.36E-01	2.19E-01	2.26E-01	2.06E-01	2.08E-01	1.24E+00	9.62E-01	9.25E+00
5.0E-02	1.67E-02	6.00E-02	2.99E-02	3.11E-02	1.41E-01	8.38E-02	8.63E-02	5.81E-02	5.85E-02	3.36E-01	2.19E-01	2.26E-01	2.06E-01	2.08E-01	1.22E+00	9.61E-01	9.21E+00
1.0E-01	1.67E-02	6.00E-02	2.99E-02	3.11E-02	1.41E-01	8.36E-02	8.63E-02	5.81E-02	5.85E-02	3.35E-01	2.19E-01	2.26E-01	2.06E-01	2.08E-01	1.16E+00	9.58E-01	9.09E+00
1.5E-01	1.67E-02	6.00E-02	2.99E-02	3.11E-02	1.41E-01	8.38E-02	8.63E-02	5.81E-02	5.86E-02	3.32E-01	2.19E-01	2.26E-01	2.06E-01	2.08E-01	1.07E+00	9.44E-01	8.89E+00
2.0E-01	1.67E-02	6.00E-02	2.99E-02	3.11E-02	1.40E-01	8.38E-02	8.63E-02	5.81E-02	5.86E-02	3.29E-01	2.19E-01	2.26E-01	2.06E-01	2.08E-01	9.61E-01	9.14E-01	8.63E+00
3.0E-01	1.67E-02	6.00E-02	2.99E-02	3.11E-02	1.40E-01	8.38E-02	8.63E-02	5.81E-02	5.86E-02	3.20E-01	2.19E-01	2.26E-01	2.06E-01	2.08E-01	7.06E-01	7.92E-01	7.97E+00
4.0E-01	1.67E-02	5.99E-02	2.99E-02	3.11E-02	1.39E-01	8.38E-02	8.62E-02	5.81E-02	5.86E-02	3.08E-01	2.19E-01	2.26E-01	2.06E-01	2.08E-01	4.67E-01	6.14E-01	7.29E+00
5.0E-01	1.67E-02	5.98E-02	2.99E-02	3.11E-02	1.38E-01	8.38E-02	8.62E-02	5.81E-02	5.86E-02	2.93E-01	2.18E-01	2.25E-01	2.06E-01	2.08E-01	2.83E-01	4.30E-01	6.70E+00
6.0E-01	1.67E-02	5.97E-02	2.99E-02	3.11E-02	1.36E-01	8.38E-02	8.62E-02	5.81E-02	5.86E-02	2.76E-01	2.16E-01	2.23E-01	2.05E-01	2.07E-01	1.62E-01	2.79E-01	6.25E+00
7.0E-01	1.67E-02	5.96E-02	2.99E-02	3.11E-02	1.35E-01	8.38E-02	8.62E-02	5.81E-02	5.86E-02	2.57E-01	2.14E-01	2.20E-01	2.04E-01	2.06E-01	9.19E-02	1.70E-01	5.93E+00
8.0E-01	1.67E-02	5.95E-02	2.99E-02	3.11E-02	1.33E-01	8.37E-02	8.62E-02	5.81E-02	5.86E-02	2.37E-01	2.11E-01	2.16E-01	2.02E-01	2.04E-01	5.68E-02	9.99E-02	5.71E+00
1.0E+00	1.67E-02	5.92E-02	2.99E-02	3.11E-02	1.28E-01	8.36E-02	8.60E-02	5.81E-02	5.86E-02	1.95E-01	2.01E-01	2.06E-01	1.96E-01	1.98E-01	3.74E-02	3.26E-02	5.38E+00
1.2E+00	1.67E-02	5.88E-02	2.99E-02	3.11E-02	1.23E-01	8.34E-02	8.58E-02	5.81E-02	5.86E-02	1.55E-01	1.87E-01	1.90E-01	1.86E-01	1.87E-01	3.65E-02	1.26E-02	5.07E+00
1.4E+00	1.66E-02	5.83E-02	2.99E-02	3.11E-02	1.17E-01	8.31E-02	8.54E-02	5.80E-02	5.86E-02	1.19E-01	1.70E-01	1.71E-01	1.72E-01	1.73E-01	3.41E-02	8.24E-03	4.72E+00
1.6E+00	1.66E-02	5.78E-02	2.99E-02	3.11E-02	1.11E-01	8.27E-02	8.49E-02	5.80E-02	5.86E-02	8.95E-02	1.50E-01	1.49E-01	1.55E-01	1.56E-01	2.84E-02	7.79E-03	4.34E+00
1.8E+00	1.66E-02	5.72E-02	2.99E-02	3.11E-02	1.04E-01	8.20E-02	8.42E-02	5.80E-02	5.86E-02	6.63E-02	1.29E-01	1.26E-01	1.37E-01	1.37E-01	2.15E-02	7.70E-03	3.94E+00
2.0E+00	1.66E-02	5.66E-02	2.99E-02	3.11E-02	9.73E-02	8.12E-02	8.33E-02	5.79E-02	5.85E-02	4.94E-02	1.07E-01	1.04E-01	1.19E-01	1.18E-01	1.52E-02	7.19E-03	3.55E+00
2.4E+00	1.66E-02	5.52E-02	2.99E-02	3.11E-02	8.29E-02	7.89E-02	8.07E-02	5.77E-02	5.83E-02	3.09E-02	6.99E-02	6.58E-02	8.43E-02	8.31E-02	6.76E-03	5.26E-03	2.87E+00
3.0E+00	1.65E-02	5.26E-02	2.98E-02	3.10E-02	6.23E-02	7.37E-02	7.48E-02	5.70E-02	5.75E-02	2.46E-02	3.23E-02	2.93E-02	4.57E-02	4.45E-02	2.46E-03	2.48E-03	2.15E+00
4.0E+00	1.64E-02	4.76E-02	2.96E-02	3.08E-02	3.49E-02	6.08E-02	6.08E-02	5.43E-02	5.47E-02	2.28E-02	1.08E-02	1.04E-02	1.39E-02	1.33E-02	1.97E-03	5.94E-04	1.54E+00
5.0E+00	1.62E-02	4.18E-02	2.92E-02	3.03E-02	1.87E-02	4.55E-02	4.44E-02	4.94E-02	4.96E-02	1.47E-02	8.94E-03	9.18E-03	4.55E-03	4.38E-03	1.45E-03	3.59E-04	1.23E+00
6.0E+00	1.60E-02	3.58E-02	2.86E-02	2.96E-02	1.17E-02	3.10E-02	2.95E-02	4.28E-02	4.23E-02	7.15E-03	8.36E-03	8.31E-03	2.78E-03	2.77E-03	7.34E-04	3.47E-04	1.00E+00
7.0E+00	1.57E-02	3.00E-02	2.78E-02	2.86E-02	9.65E-03	1.96E-02	1.81E-02	3.54E-02	3.52E-02	3.27E-03	6.40E-03	6.08E-03	2.67E-03	2.68E-03	3.19E-04	2.79E-04	8.17E-01
8.0E+00	1.55E-02	2.45E-02	2.66E-02	2.74E-02	9.44E-03	1.17E-02	1.06E-02	2.83E-02	2.80E-02	2.01E-03	4.17E-03	3.80E-03	2.58E-03	2.57E-03	1.71E-04	1.87E-04	6.63E-01
1.0E+01	1.50E-02	1.50E-02	2.40E-02	2.40E-02	8.70E-03	4.40E-03	4.10E-03	1.70E-02	1.60E-02	1.80E-03	1.40E-03	1.20E-03	1.90E-03	1.90E-03	1.40E-04	6.20E-05	4.40E-01
1.5E+01	1.30E-02	3.90E-03	1.50E-02	1.50E-02	2.80E-03	2.60E-03	2.70E-03	3.80E-03	3.60E-03	6.90E-04	4.00E-04	4.30E-04	5.00E-04	4.70E-04	5.60E-05	1.60E-05	1.90E-01
2.0E+01	1.10E-02	1.60E-03	8.20E-03	7.70E-03	5.40E-04	1.90E-03	1.90E-03	8.70E-04	8.20E-04	1.20E-04	3.30E-04	3.20E-04	1.20E-04	1.10E-04	1.00E-05	1.30E-05	9.60E-02
3.0E+01	6.70E-03	1.40E-03	2.10E-03	1.80E-03	2.70E-04	5.40E-04	4.70E-04	6.40E-05	5.90E-05	5.00E-05	9.40E-05	8.30E-05	8.50E-06	7.70E-06	3.90E-06	3.90E-06	3.20E-02
4.0E+01	3.90E-03	8.80E-04	5.60E-04	4.40E-04	1.90E-04	1.40E-04	1.10E-04	7.60E-06	6.60E-06	3.50E-05	2.40E-05	1.90E-05	9.90E-07	8.60E-07	2.70E-06	9.80E-07	1.40E-02
6.0E+01	1.30E-03	2.50E-04	6.00E-05	4.00E-05	5.30E-05	1.40E-05	9.50E-06	2.80E-07	2.20E-07	9.90E-06	2.40E-06	1.60E-06	3.60E-08	2.90E-08	7.70E-07	9.80E-08	3.50E-03
1.0E+02	1.80E-04	2.80E-05	2.70E-06	1.30E-06	5.70E-06	6.00E-07	2.90E-07	3.80E-09	2.40E-09	1.10E-06	1.00E-07	5.00E-08	4.90E-10	3.20E-10	8.20E-08	4.20E-09	4.50E-04
E[keV]:	2.79E+01	4.24E+00	3.94E+00	3.73E+00	8.26E-01	7.02E-01	6.64E-01	4.51E-01	4.44E-01	1.22E-01	7.70E-02	7.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

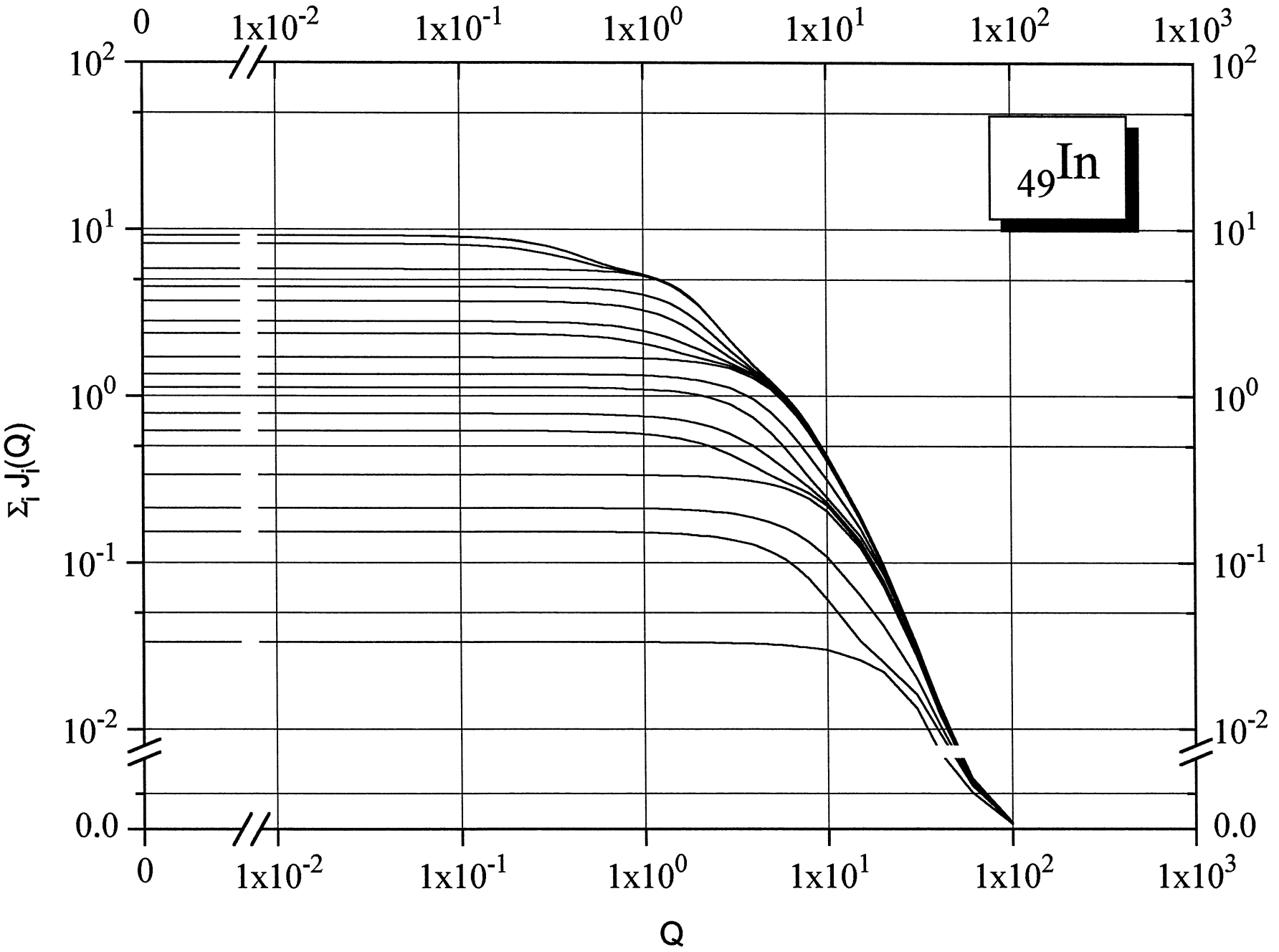
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(1)	Total
0.0E+00	3.34E-02	1.53E-01	2.13E-01	3.38E-01	6.20E-01	7.87E-01	1.13E+00	1.36E+00	1.72E+00	2.39E+00	2.83E+00	3.73E+00	4.55E+00	5.80E+00	8.28E+00	9.24E+00	9.25E+00
5.0E-02	3.34E-02	1.53E-01	2.13E-01	3.38E-01	6.20E-01	7.87E-01	1.13E+00	1.36E+00	1.72E+00	2.39E+00	2.83E+00	3.73E+00	4.55E+00	5.80E+00	8.24E+00	9.20E+00	9.21E+00
1.0E-01	3.34E-02	1.53E-01	2.13E-01	3.38E-01	6.20E-01	7.87E-01	1.13E+00	1.36E+00	1.72E+00	2.39E+00	2.82E+00	3.73E+00	4.55E+00	5.79E+00	8.11E+00	9.07E+00	9.09E+00
1.5E-01	3.34E-02	1.53E-01	2.13E-01	3.38E-01	6.20E-01	7.87E-01	1.13E+00	1.36E+00	1.72E+00	2.38E+00	2.82E+00	3.72E+00	4.55E+00	5.79E+00	7.93E+00	8.88E+00	8.89E+00
2.0E-01	3.34E-02	1.53E-01	2.13E-01	3.38E-01	6.18E-01	7.85E-01	1.13E+00	1.36E+00	1.71E+00	2.37E+00	2.81E+00	3.71E+00	4.54E+00	5.79E+00	7.71E+00	8.62E+00	8.63E+00
3.0E-01	3.34E-02	1.53E-01	2.13E-01	3.38E-01	6.18E-01	7.85E-01	1.13E+00	1.36E+00	1.71E+00	2.35E+00	2.79E+00	3.70E+00	4.52E+00	5.77E+00	7.18E+00	7.97E+00	7.97E+00
4.0E-01	3.34E-02	1.53E-01	2.13E-01	3.37E-01	6.15E-01	7.83E-01	1.13E+00	1.36E+00	1.71E+00	2.33E+00	2.77E+00	3.67E+00	4.49E+00	5.74E+00	6.68E+00	7.29E+00	7.29E+00
5.0E-01	3.34E-02	1.53E-01	2.13E-01	3.37E-01	6.13E-01	7.81E-01	1.13E+00	1.36E+00	1.71E+00	2.30E+00	2.73E+00	3.63E+00	4.46E+00	5.70E+00	6.27E+00	6.70E+00	6.70E+00
6.0E-01	3.34E-02	1.53E-01	2.13E-01	3.37E-01	6.09E-01	7.77E-01	1.12E+00	1.35E+00	1.71E+00	2.26E+00	2.69E+00	3.58E+00	4.40E+00	5.64E+00	5.97E+00	6.25E+00	6.25E+00
7.0E-01	3.34E-02	1.52E-01	2.12E-01	3.37E-01	6.07E-01	7.74E-01	1.12E+00	1.35E+00	1.70E+00	2.22E+00	2.65E+00	3.53E+00	4.34E+00	5.58E+00	5.76E+00	5.93E+00	5.93E+00
8.0E-01	3.34E-02	1.52E-01	2.12E-01	3.37E-01	6.03E-01	7.70E-01	1.11E+00	1.35E+00	1.70E+00	2.17E+00	2.59E+00	3.46E+00	4.27E+00	5.49E+00	5.60E+00	5.70E+00	5.71E+00
1.0E+00	3.34E-02	1.52E-01	2.12E-01	3.36E-01	5.92E-01	7.59E-01	1.10E+00	1.34E+00	1.69E+00	2.08E+00	2.48E+00	3.30E+00	4.09E+00	5.28E+00	5.35E+00	5.38E+00	5.38E+00
1.2E+00	3.34E-02	1.51E-01	2.11E-01	3.35E-01	5.81E-01	7.48E-01	1.09E+00	1.32E+00	1.68E+00	1.99E+00	2.36E+00	3.12E+00	3.86E+00	4.99E+00	5.06E+00	5.07E+00	5.07E+00
1.4E+00	3.32E-02	1.50E-01	2.10E-01	3.34E-01	5.68E-01	7.34E-01	1.08E+00	1.31E+00	1.66E+00	1.90E+00	2.24E+00	2.92E+00	3.61E+00	4.65E+00	4.72E+00	4.72E+00	4.72E+00
1.6E+00	3.32E-02	1.49E-01	2.09E-01	3.33E-01	5.55E-01	7.20E-01	1.06E+00	1.29E+00	1.64E+00	1.82E+00	2.12E+00	2.72E+00	3.34E+00	4.27E+00	4.33E+00	4.34E+00	4.34E+00
1.8E+00	3.32E-02	1.48E-01	2.07E-01	3.32E-01	5.40E-01	7.04E-01	1.04E+00	1.27E+00	1.62E+00	1.76E+00	2.01E+00	2.52E+00	3.07E+00	3.89E+00	3.93E+00	3.94E+00	3.94E+00
2.0E+00	3.32E-02	1.46E-01	2.06E-01	3.31E-01	5.25E-01	6.88E-01	1.02E+00	1.25E+00	1.60E+00	1.70E+00	1.92E+00	2.33E+00	2.81E+00	3.52E+00	3.55E+00	3.55E+00	3.55E+00
2.4E+00	3.32E-02	1.44E-01	2.03E-01	3.28E-01	4.94E-01	6.51E-01	9.74E-01	1.20E+00	1.55E+00	1.62E+00	1.76E+00	2.02E+00	2.36E+00	2.86E+00	2.87E+00	2.87E+00	2.87E+00
3.0E+00	3.30E-02	1.38E-01	1.98E-01	3.22E-01	4.46E-01	5.94E-01	8.93E-01	1.12E+00	1.47E+00	1.52E+00	1.58E+00	1.70E+00	1.88E+00	2.15E+00	2.15E+00	2.15E+00	2.15E+00
4.0E+00	3.28E-02	1.28E-01	1.87E-01	3.10E-01	3.80E-01	5.02E-01	7.45E-01	9.62E-01	1.29E+00	1.34E+00	1.36E+00	1.40E+00	1.45E+00	1.53E+00	1.54E+00	1.54E+00	1.54E+00
5.0E+00	3.24E-02	1.16E-01	1.74E-01	2.98E-01	3.24E-01	6.02E-01	7.99E-01	1.10E+00	1.13E+00	1.14E+00	1.18E+00	1.20E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00
6.0E+00	3.20E-02	1.04E-01	1.61E-01	2.79E-01	3.03E-01	3.65E-01	4.83E-01	6.54E-01	9.08E-01	9.22E-01	9.39E-01	9.72E-01	9.83E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00
7.0E+00	3.14E-02	9.14E-02	1.47E-01	2.61E-01	2.81E-01	3.20E-01	3.92E-01	5.34E-01	7.46E-01	7.52E-01	7.65E-01	7.89E-01	8.00E-01	8.16E-01	8.17E-01	8.17E-01	8.17E-01
8.0E+00	3.10E-02	8.00E-02	1.33E-01	2.43E-01	2.62E-01	2.85E-01	3.27E-01	4.41E-01	6.09E-01	6.13E-01	6.21E-01	6.36E-01	6.47E-01	6.62E-01	6.62E-01	6.63E-01	6.63E-01
1.0E+01	3.00E-02	6.00E-02	1.08E-01	2.04E-01	2.21E-01	2.30E-01	2.47E-01	3.15E-01	4.11E-01	4.14E-01	4.17E-01	4.22E-01	4.29E-01	4.41E-01	4.41E-01	4.41E-01	4.40E-01
1.5E+01	2.60E-02	3.38E-02	6.38E-02	1.24E-01	1.29E-01	1.35E-01	1.45E-01	1.61E-01	1.82E-01	1.84E-01	1.84E-01	1.86E-01	1.88E-01	1.91E-01	1.91E-01	1.91E-01	1.90E-01
2.0E+01	2.20E-02	2.52E-02	4.16E-02	7.24E-02	7.35E-02	7.73E-02	8.49E-02	8.84E-02	9.33E-02	9.35E-02	9.42E-02	9.55E-02	9.59E-02	9.66E-02	9.66E-02	9.66E-02	9.60E-02
3.0E+01	1.34E-02	1.62E-02	2.04E-02	2.76E-02	2.81E-02	2.92E-02	3.11E-02	3.14E-02	3.17E-02	3.18E-02	3.20E-02	3.23E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02	3.20E-02
4.0E+01	7.80E-03	9.56E-03	1.07E-02	1.24E-02	1.28E-02	1.31E-02	1.35E-02	1.36E-02	1.36E-02	1.37E-02	1.37E-02	1.38E-02	1.38E-02	1.38E-02	1.38E-02	1.38E-02	1.40E-02
6.0E+01	2.60E-03	3.10E-03	3.22E-03	3.38E-03	3.49E-03	3.51E-03	3.55E-03	3.55E-03	3.55E-03	3.57E-03	3.58E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.50E-03
1.0E+02	3.60E-04	4.16E-04	4.21E-04	4.27E-04	4.38E-04	4.39E-04	4.40E-04	4.40E-04	4.40E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.50E-04
E[keV]:	2.79E+01	4.24E+00	3.94E+00	3.73E+00	8.26E-01	7.02E-01	6.64E-01	4.51E-01	4.44E-01	1.22E-01	7.70E-02	7.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z	
0.0E+00	5.51E+00
5.0E-02	5.47E+00
1.0E-01	5.34E+00
1.5E-01	5.16E+00
2.0E-01	4.91E+00
3.0E-01	4.28E+00
4.0E-01	3.62E+00
5.0E-01	3.07E+00
6.0E-01	2.67E+00
7.0E-01	2.41E+00
8.0E-01	2.25E+00
1.0E+00	2.08E+00
1.2E+00	1.95E+00
1.4E+00	1.80E+00
1.6E+00	1.62E+00
1.8E+00	1.42E+00
2.0E+00	1.22E+00
2.4E+00	8.55E-01
3.0E+00	4.57E-01
4.0E+00	1.40E-01
5.0E+00	4.77E-02
6.0E+00	2.96E-02
7.0E+00	2.77E-02
8.0E+00	2.63E-02
1.0E+01	1.93E-02
1.5E+01	4.95E-03
2.0E+01	1.17E-03
3.0E+01	9.19E-05
4.0E+01	1.55E-05
6.0E+01	1.96E-06
1.0E+02	1.72E-07
E[keV]:	0.00E+00

q_z																
0.0E+00	6.86E+00	7.53E+00	7.88E+00	8.11E+00	8.46E+00	8.62E+00	8.91E+00	9.03E+00	9.09E+00	9.21E+00	9.24E+00	9.25E+00				
5.0E-02	6.82E+00	7.49E+00	7.84E+00	8.07E+00	8.42E+00	8.58E+00	8.87E+00	8.99E+00	9.05E+00	9.17E+00	9.20E+00	9.21E+00				
1.0E-01	6.68E+00	7.35E+00	7.70E+00	7.93E+00	8.28E+00	8.45E+00	8.73E+00	8.85E+00	8.91E+00	9.03E+00	9.07E+00	9.09E+00				
1.5E-01	6.50E+00	7.16E+00	7.51E+00	7.75E+00	8.09E+00	8.26E+00	8.54E+00	8.67E+00	8.73E+00	8.85E+00	8.88E+00	8.89E+00				
2.0E-01	6.25E+00	6.91E+00	7.26E+00	7.49E+00	7.84E+00	8.00E+00	8.28E+00	8.41E+00	8.47E+00	8.59E+00	8.62E+00	8.63E+00				
3.0E-01	5.62E+00	6.26E+00	6.61E+00	6.84E+00	7.19E+00	7.35E+00	7.63E+00	7.76E+00	7.82E+00	7.94E+00	7.97E+00	7.97E+00				
4.0E-01	4.96E+00	5.58E+00	5.93E+00	6.16E+00	6.51E+00	6.67E+00	6.95E+00	7.08E+00	7.14E+00	7.26E+00	7.29E+00	7.29E+00				
5.0E-01	4.40E+00	4.99E+00	5.34E+00	5.57E+00	5.92E+00	6.09E+00	6.36E+00	6.49E+00	6.55E+00	6.67E+00	6.70E+00	6.70E+00				
6.0E-01	3.99E+00	4.54E+00	4.89E+00	5.13E+00	5.47E+00	5.64E+00	5.91E+00	6.03E+00	6.09E+00	6.21E+00	6.25E+00	6.25E+00				
7.0E-01	3.71E+00	4.23E+00	4.58E+00	4.81E+00	5.16E+00	5.32E+00	5.59E+00	5.72E+00	5.78E+00	5.90E+00	5.93E+00	5.93E+00				
8.0E-01	3.53E+00	4.01E+00	4.36E+00	4.59E+00	4.93E+00	5.10E+00	5.37E+00	5.49E+00	5.55E+00	5.67E+00	5.70E+00	5.71E+00				
1.0E+00	3.31E+00	3.70E+00	4.05E+00	4.28E+00	4.62E+00	4.79E+00	5.05E+00	5.17E+00	5.23E+00	5.35E+00	5.38E+00	5.38E+00				
1.2E+00	3.09E+00	3.40E+00	3.75E+00	3.98E+00	4.32E+00	4.49E+00	4.74E+00	4.86E+00	4.92E+00	5.04E+00	5.07E+00	5.07E+00				
1.4E+00	2.83E+00	3.06E+00	3.42E+00	3.65E+00	3.99E+00	4.16E+00	4.39E+00	4.51E+00	4.57E+00	4.69E+00	4.72E+00	4.72E+00				
1.6E+00	2.52E+00	2.70E+00	3.05E+00	3.28E+00	3.62E+00	3.78E+00	4.01E+00	4.13E+00	4.19E+00	4.31E+00	4.34E+00	4.34E+00				
1.8E+00	2.18E+00	2.32E+00	2.67E+00	2.90E+00	3.24E+00	3.40E+00	3.61E+00	3.73E+00	3.79E+00	3.91E+00	3.94E+00	3.94E+00				
2.0E+00	1.85E+00	1.95E+00	2.30E+00	2.53E+00	2.87E+00	3.03E+00	3.22E+00	3.35E+00	3.41E+00	3.52E+00	3.55E+00	3.55E+00				
2.4E+00	1.26E+00	1.32E+00	1.67E+00	1.90E+00	2.22E+00	2.38E+00	2.55E+00	2.67E+00	2.73E+00	2.84E+00	2.87E+00	2.87E+00				
3.0E+00	6.39E-01	6.88E-01	1.03E+00	1.26E+00	1.56E+00	1.71E+00	1.83E+00	1.96E+00	2.02E+00	2.12E+00	2.15E+00	2.15E+00				
4.0E+00	2.03E-01	2.49E-01	5.77E-01	7.94E-01	1.04E+00	1.16E+00	1.23E+00	1.35E+00	1.41E+00	1.51E+00	1.54E+00	1.54E+00				
5.0E+00	1.02E-01	1.32E-01	4.29E-01	6.27E-01	8.05E-01	8.96E-01	9.33E-01	1.05E+00	1.11E+00	1.20E+00	1.23E+00	1.23E+00				
6.0E+00	7.95E-02	9.38E-02	3.48E-01	5.19E-01	6.37E-01	6.99E-01	7.22E-01	8.41E-01	8.98E-01	9.69E-01	1.00E+00	1.00E+00				
7.0E+00	6.48E-02	7.13E-02	2.83E-01	4.25E-01	4.97E-01	5.36E-01	5.56E-01	6.70E-01	7.26E-01	7.86E-01	8.17E-01	8.17E-01				
8.0E+00	4.98E-02	5.38E-02	2.22E-01	3.35E-01	3.77E-01	4.01E-01	4.20E-01	5.29E-01	5.83E-01	6.32E-01	6.63E-01	6.63E-01				
1.0E+01	2.69E-02	3.05E-02	1.27E-01	1.95E-01	2.11E-01	2.20E-01	2.37E-01	3.33E-01	3.81E-01	4.11E-01	4.41E-01	4.40E-01				
1.5E+01	7.47E-03	8.85E-03	3.04E-02	4.56E-02	5.64E-02	6.16E-02	6.72E-02	1.27E-01	1.57E-01	1.65E-01	1.91E-01	1.90E-01				
2.0E+01	3.11E-03	3.35E-03	8.27E-03	1.18E-02	1.94E-02	2.32E-02	2.42E-02	5.50E-02	7.14E-02	7.46E-02	9.66E-02	9.60E-02				
3.0E+01	6.12E-04	7.12E-04	1.07E-03	1.32E-03	3.20E-03	4.28E-03	4.82E-03	1.20E-02	1.62E-02	1.90E-02	3.24E-02	3.20E-02				
4.0E+01	1.40E-04	2.10E-04	2.49E-04	2.79E-04	7.20E-04	1.00E-03	1.38E-03	3.14E-03	4.26E-03	6.02E-03	1.38E-02	1.40E-02				
6.0E+01	1.32E-05	3.30E-05	3.43E-05	3.54E-05	7.34E-05	1.01E-04	2.07E-04	3.67E-04	4.87E-04	9.87E-04	3.59E-03	3.50E-03				
1.0E+02	5.72E-07	2.77E-06	2.79E-06	2.80E-06	3.96E-06	5.16E-06	1.66E-05	2.18E-05	2.72E-05	8.32E-05	4.43E-04	4.50E-04				
E[keV]:	7.70E-02	1.22E-01	4.44E-01	4.51E-01	6.64E-01	7.02E-01	8.26E-01	3.73E+00	3.94E+00	4.24E+00	2.79E+01					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49In
Σi Ji(Q)
Q

Z=50

Compton profiles for the single orbitals and binding energies

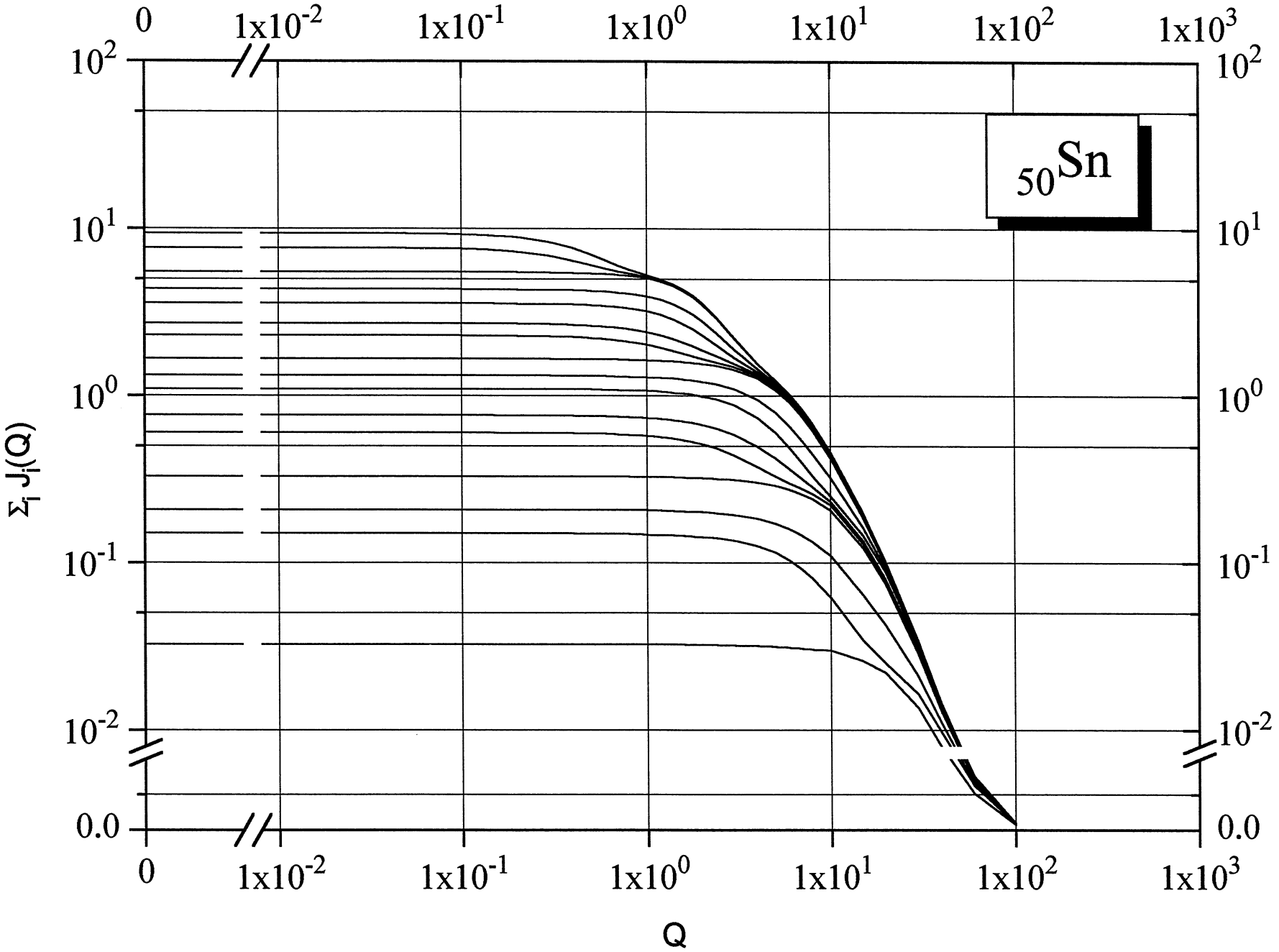
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	Total
0.0E+00	1.63E-02	5.86E-02	2.92E-02	3.04E-02	1.37E-01	8.14E-02	8.39E-02	5.63E-02	5.69E-02	3.22E-01	2.09E-01	2.16E-01	1.92E-01	1.93E-01	1.10E+00	8.36E-01	9.40E+00
5.0E-02	1.63E-02	5.86E-02	2.92E-02	3.04E-02	1.37E-01	8.14E-02	8.39E-02	5.63E-02	5.69E-02	3.22E-01	2.09E-01	2.16E-01	1.92E-01	1.93E-01	1.09E+00	8.36E-01	9.37E+00
1.0E-01	1.63E-02	5.86E-02	2.92E-02	3.04E-02	1.37E-01	8.14E-02	8.39E-02	5.63E-02	5.69E-02	3.20E-01	2.09E-01	2.16E-01	1.92E-01	1.93E-01	1.05E+00	8.34E-01	9.28E+00
1.5E-01	1.63E-02	5.86E-02	2.92E-02	3.04E-02	1.37E-01	8.14E-02	8.39E-02	5.63E-02	5.69E-02	3.18E-01	2.09E-01	2.16E-01	1.92E-01	1.93E-01	9.81E-01	8.27E-01	9.13E+00
2.0E-01	1.63E-02	5.86E-02	2.92E-02	3.04E-02	1.36E-01	8.14E-02	8.39E-02	5.63E-02	5.69E-02	3.16E-01	2.09E-01	2.16E-01	1.92E-01	1.93E-01	8.97E-01	8.10E-01	8.92E+00
3.0E-01	1.63E-02	5.85E-02	2.92E-02	3.04E-02	1.36E-01	8.14E-02	8.39E-02	5.63E-02	5.69E-02	3.08E-01	2.09E-01	2.16E-01	1.92E-01	1.93E-01	6.97E-01	7.36E-01	8.35E+00
4.0E-01	1.63E-02	5.85E-02	2.92E-02	3.04E-02	1.35E-01	8.14E-02	8.39E-02	5.63E-02	5.69E-02	2.97E-01	2.08E-01	2.16E-01	1.92E-01	1.93E-01	4.95E-01	6.14E-01	7.68E+00
5.0E-01	1.63E-02	5.84E-02	2.92E-02	3.04E-02	1.34E-01	8.14E-02	8.38E-02	5.63E-02	5.69E-02	2.83E-01	2.08E-01	2.15E-01	1.91E-01	1.93E-01	3.26E-01	4.72E-01	7.02E+00
6.0E-01	1.63E-02	5.83E-02	2.92E-02	3.04E-02	1.33E-01	8.14E-02	8.38E-02	5.63E-02	5.69E-02	2.68E-01	2.07E-01	2.13E-01	1.91E-01	1.92E-01	2.02E-01	3.37E-01	6.46E+00
7.0E-01	1.63E-02	5.82E-02	2.92E-02	3.04E-02	1.31E-01	8.13E-02	8.38E-02	5.63E-02	5.69E-02	2.51E-01	2.05E-01	2.11E-01	1.90E-01	1.92E-01	1.22E-01	2.28E-01	6.02E+00
8.0E-01	1.63E-02	5.81E-02	2.92E-02	3.04E-02	1.29E-01	8.13E-02	8.38E-02	5.63E-02	5.69E-02	2.33E-01	2.02E-01	2.08E-01	1.89E-01	1.91E-01	7.54E-02	1.48E-01	5.70E+00
1.0E+00	1.63E-02	5.78E-02	2.92E-02	3.04E-02	1.25E-01	8.12E-02	8.37E-02	5.63E-02	5.69E-02	1.95E-01	1.94E-01	1.99E-01	1.85E-01	1.87E-01	4.24E-02	5.67E-02	5.28E+00
1.2E+00	1.63E-02	5.74E-02	2.92E-02	3.04E-02	1.21E-01	8.11E-02	8.35E-02	5.63E-02	5.68E-02	1.57E-01	1.83E-01	1.86E-01	1.78E-01	1.79E-01	3.89E-02	2.22E-02	4.97E+00
1.4E+00	1.63E-02	5.70E-02	2.92E-02	3.04E-02	1.15E-01	8.08E-02	8.32E-02	5.63E-02	5.68E-02	1.23E-01	1.68E-01	1.69E-01	1.67E-01	1.69E-01	3.80E-02	1.17E-02	4.66E+00
1.6E+00	1.63E-02	5.65E-02	2.92E-02	3.04E-02	1.09E-01	8.04E-02	8.27E-02	5.63E-02	5.68E-02	9.41E-02	1.50E-01	1.50E-01	1.54E-01	1.55E-01	3.38E-02	9.63E-03	4.32E+00
1.8E+00	1.62E-02	5.60E-02	2.92E-02	3.04E-02	1.03E-01	7.98E-02	8.21E-02	5.62E-02	5.68E-02	7.07E-02	1.31E-01	1.29E-01	1.39E-01	1.40E-01	2.72E-02	9.50E-03	3.97E+00
2.0E+00	1.62E-02	5.54E-02	2.92E-02	3.04E-02	9.64E-02	7.91E-02	8.12E-02	5.62E-02	5.67E-02	5.31E-02	1.11E-01	1.08E-01	1.23E-01	1.23E-01	2.02E-02	9.29E-03	3.62E+00
2.4E+00	1.62E-02	5.41E-02	2.91E-02	3.04E-02	8.29E-02	7.71E-02	7.89E-02	5.60E-02	5.66E-02	3.27E-02	7.53E-02	7.12E-02	9.13E-02	9.08E-02	9.65E-03	7.48E-03	2.96E+00
3.0E+00	1.61E-02	5.17E-02	2.91E-02	3.03E-02	6.31E-02	7.24E-02	7.37E-02	5.54E-02	5.60E-02	2.45E-02	3.66E-02	3.33E-02	5.25E-02	5.15E-02	3.28E-03	3.90E-03	2.23E+00
4.0E+00	1.60E-02	4.69E-02	2.89E-02	3.01E-02	3.63E-02	6.07E-02	6.08E-02	5.31E-02	5.36E-02	2.31E-02	1.18E-02	1.12E-02	1.72E-02	1.66E-02	2.30E-03	9.53E-04	1.56E+00
5.0E+00	1.58E-02	4.15E-02	2.86E-02	2.97E-02	1.98E-02	4.63E-02	4.54E-02	4.88E-02	4.91E-02	1.59E-02	8.95E-03	9.19E-03	5.63E-03	5.42E-03	1.83E-03	4.81E-04	1.24E+00
6.0E+00	1.56E-02	3.58E-02	2.80E-02	2.91E-02	1.21E-02	3.23E-02	3.08E-02	4.28E-02	4.29E-02	8.18E-03	8.60E-03	8.62E-03	3.04E-03	3.02E-03	9.91E-04	4.65E-04	1.02E+00
7.0E+00	1.54E-02	3.02E-02	2.72E-02	2.82E-02	9.62E-03	2.09E-02	1.94E-02	3.59E-02	3.58E-02	3.78E-03	6.91E-03	6.61E-03	2.79E-03	2.81E-03	4.46E-04	3.95E-04	8.33E-01
8.0E+00	1.52E-02	2.49E-02	2.62E-02	2.70E-02	9.26E-03	1.28E-02	1.16E-02	2.91E-02	2.89E-02	2.16E-03	4.70E-03	4.30E-03	2.74E-03	2.75E-03	2.23E-04	2.78E-04	6.80E-01
1.0E+01	1.50E-02	1.60E-02	2.40E-02	2.40E-02	8.70E-03	4.80E-03	4.40E-03	1.80E-02	1.70E-02	1.80E-03	1.60E-03	1.40E-03	2.10E-03	2.10E-03	1.60E-04	9.80E-05	4.60E-01
1.5E+01	1.30E-02	4.20E-03	1.50E-02	1.50E-02	3.10E-03	2.60E-03	2.70E-03	4.20E-03	4.00E-03	7.80E-04	4.10E-04	4.40E-04	5.90E-04	5.70E-04	7.40E-05	2.20E-05	2.00E-01
2.0E+01	1.10E-02	1.60E-03	8.60E-03	8.00E-03	6.10E-04	2.00E-03	2.00E-03	9.90E-04	9.30E-04	1.50E-04	3.50E-04	3.50E-04	1.40E-04	1.40E-04	1.40E-05	1.90E-05	1.00E-01
3.0E+01	6.80E-03	1.40E-03	2.30E-03	1.90E-03	2.70E-04	5.90E-04	5.20E-04	7.60E-05	6.90E-05	5.10E-05	1.10E-04	9.40E-05	1.10E-05	9.90E-06	4.60E-06	5.80E-06	3.40E-02
4.0E+01	4.00E-03	9.10E-04	6.20E-04	4.80E-04	2.00E-04	1.60E-04	1.20E-04	9.10E-06	7.90E-06	3.80E-05	2.80E-05	2.20E-05	1.30E-06	1.10E-06	3.40E-06	1.50E-06	1.40E-02
6.0E+01	1.30E-03	2.70E-04	6.80E-05	4.50E-05	5.70E-05	1.60E-05	1.10E-05	3.40E-07	2.70E-07	1.10E-05	2.90E-06	1.90E-06	4.80E-08	3.80E-08	1.00E-06	1.50E-07	3.80E-03
1.0E+02	2.00E-04	3.10E-05	3.20E-06	1.50E-06	6.40E-06	7.10E-07	3.40E-07	4.70E-09	3.00E-09	1.20E-06	1.20E-07	6.00E-08	6.60E-10	4.20E-10	1.10E-07	6.70E-09	4.90E-04
E[keV]:	2.92E+01	4.47E+00	4.16E+00	3.93E+00	8.84E-01	7.57E-01	7.15E-01	4.96E-01	4.85E-01	1.37E-01	8.90E-02	8.90E-02	2.50E-02	2.40E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	Total
0.0E+00	3.26E-02	1.50E-01	2.08E-01	3.30E-01	6.04E-01	7.67E-01	1.10E+00	1.33E+00	1.67E+00	2.31E+00	2.73E+00	3.59E+00	4.36E+00	5.52E+00	7.72E+00	9.39E+00	9.40E+00
5.0E-02	3.26E-02	1.50E-01	2.08E-01	3.30E-01	6.04E-01	7.67E-01	1.10E+00	1.33E+00	1.67E+00	2.31E+00	2.73E+00	3.59E+00	4.36E+00	5.52E+00	7.70E+00	9.37E+00	9.37E+00
1.0E-01	3.26E-02	1.50E-01	2.08E-01	3.30E-01	6.04E-01	7.67E-01	1.10E+00	1.33E+00	1.67E+00	2.31E+00	2.73E+00	3.59E+00	4.36E+00	5.52E+00	7.62E+00	9.28E+00	9.28E+00
1.5E-01	3.26E-02	1.50E-01	2.08E-01	3.30E-01	6.04E-01	7.67E-01	1.10E+00	1.33E+00	1.67E+00	2.30E+00	2.72E+00	3.59E+00	4.35E+00	5.51E+00	7.47E+00	9.13E+00	9.13E+00
2.0E-01	3.26E-02	1.50E-01	2.08E-01	3.30E-01	6.02E-01	7.65E-01	1.10E+00	1.33E+00	1.67E+00	2.30E+00	2.72E+00	3.58E+00	4.35E+00	5.51E+00	7.30E+00	8.92E+00	8.92E+00
3.0E-01	3.26E-02	1.50E-01	2.08E-01	3.30E-01	6.02E-01	7.64E-01	1.10E+00	1.33E+00	1.67E+00	2.28E+00	2.70E+00	3.56E+00	4.33E+00	5.49E+00	6.88E+00	8.36E+00	8.35E+00
4.0E-01	3.26E-02	1.50E-01	2.08E-01	3.30E-01	6.00E-01	7.62E-01	1.10E+00	1.32E+00	1.66E+00	2.26E+00	2.67E+00	3.54E+00	4.31E+00	5.46E+00	6.45E+00	7.68E+00	7.68E+00
5.0E-01	3.26E-02	1.49E-01	2.08E-01	3.29E-01	5.97E-01	7.60E-01	1.10E+00	1.32E+00	1.66E+00	2.23E+00	2.64E+00	3.50E+00	4.27E+00	5.43E+00	6.08E+00	7.02E+00	7.02E+00
6.0E-01	3.26E-02	1.49E-01	2.08E-01	3.29E-01	5.95E-01	7.58E-01	1.09E+00	1.32E+00	1.66E+00	2.20E+00	2.61E+00	3.46E+00	4.23E+00	5.38E+00	5.78E+00	6.46E+00	6.46E+00
7.0E-01	3.26E-02	1.49E-01	2.07E-01	3.29E-01	5.91E-01	7.54E-01	1.09E+00	1.31E+00	1.66E+00	2.16E+00	2.57E+00	3.41E+00	4.17E+00	5.32E+00	5.57E+00	6.02E+00	6.02E+00
8.0E-01	3.26E-02	1.49E-01	2.07E-01	3.29E-01	5.87E-01	7.49E-01	1.08E+00	1.31E+00	1.65E+00	2.12E+00	2.52E+00	3.35E+00	4.11E+00	5.26E+00	5.41E+00	5.70E+00	5.70E+00
1.0E+00	3.26E-02	1.48E-01	2.07E-01	3.28E-01	5.78E-01	7.41E-01	1.08E+00	1.30E+00	1.64E+00	2.03E+00	2.42E+00	3.22E+00	3.96E+00	5.08E+00	5.16E+00	5.28E+00	5.28E+00
1.2E+00	3.26E-02	1.47E-01	2.06E-01	3.27E-01	5.69E-01	7.32E-01	1.07E+00	1.29E+00	1.63E+00	1.95E+00	2.31E+00	3.06E+00	3.77E+00	4.84E+00	4.92E+00	4.96E+00	4.97E+00
1.4E+00	3.26E-02	1.47E-01	2.05E-01	3.27E-01	5.57E-01	7.19E-01	1.05E+00	1.28E+00	1.62E+00	1.86E+00	2.20E+00	2.88E+00	3.54E+00	4.56E+00	4.63E+00	4.66E+00	4.66E+00
1.6E+00	3.26E-02	1.46E-01	2.04E-01	3.26E-01	5.44E-01	7.04E-01	1.04E+00	1.26E+00	1.60E+00	1.79E+00	2.09E+00	2.69E+00	3.31E+00	4.24E+00	4.30E+00	4.32E+00	4.32E+00
1.8E+00	3.24E-02	1.44E-01	2.03E-01	3.24E-01	5.30E-01	6.90E-01	1.02E+00	1.24E+00	1.58E+00	1.73E+00	1.99E+00	2.50E+00	3.06E+00	3.90E+00	3.95E+00	3.97E+00	3.97E+00
2.0E+00	3.24E-02	1.43E-01	2.02E-01	3.23E-01	5.16E-01	6.74E-01	9.99E-01	1.22E+00	1.56E+00	1.67E+00	1.89E+00	2.32E+00	2.82E+00	3.55E+00	3.59E+00	3.61E+00	3.62E+00
2.4E+00	3.24E-02	1.41E-01	1.99E-01	3.20E-01	4.86E-01	6.40E-01	9.56E-01	1.18E+00	1.52E+00	1.59E+00	1.74E+00	2.02E+00	2.39E+00	2.93E+00	2.95E+00	2.96E+00	2.96E+00
3.0E+00	3.22E-02	1.36E-01	1.94E-01	3.15E-01	4.41E-01	5.86E-01	8.81E-01	1.10E+00	1.44E+00	1.49E+00	1.56E+00	1.69E+00	1.90E+00	2.21E+00	2.22E+00	2.23E+00	2.23E+00
4.0E+00	3.20E-02	1.26E-01	1.84E-01	3.04E-01	3.77E-01	4.98E-01	7.41E-01	9.54E-01	1.28E+00	1.32E+00	1.35E+00	1.39E+00	1.46E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00
5.0E+00	3.16E-02	1.15E-01	1.72E-01	2.91E-01	3.20E-01	4.23E-01	6.00E-01	8.09E-01	1.09E+00	1.13E+00	1.14E+00	1.18E+00	1.23E+00	1.24E+00	1.24E+00	1.24E+00	1.24E+00
6.0E+00	3.12E-02	1.03E-01	1.59E-01	2.75E-01	2.99E-01	3.64E-01	4.87E-01	6.58E-01	9.16E-01	9.32E-01	9.49E-01	9.84E-01	9.96E-01	1.01E+00	1.02E+00	1.02E+00	1.02E+00
7.0E+00	3.08E-02	9.12E-02	1.46E-01	2.58E-01	2.78E-01	3.19E-01	3.97E-01	5.41E-01	7.55E-01	7.63E-01	7.77E-01	8.03E-01	8.14E-01	8.31E-01	8.32E-01	8.33E-01	8.33E-01
8.0E+00	3.04E-02	8.02E-02	1.33E-01	2.41E-01	2.59E-01	2.85E-01	3.31E-01	4.48E-01	6.21E-01	6.25E-01	6.35E-01	6.52E-01	6.63E-01	6.79E-01	6.80E-01	6.80E-01	6.80E-01
1.0E+01	3.00E-02	6.20E-02	1.10E-01	2.06E-01	2.23E-01	2.33E-01	2.51E-01	3.23E-01	4.25E-01	4.28E-01	4.31E-01	4.37E-01	4.45E-01	4.58E-01	4.58E-01	4.59E-01	4.60E-01
1.5E+01	2.60E-02	3.44E-02	6.44E-02	1.24E-01	1.31E-01	1.36E-01	1.47E-01	1.63E-01	1.87E-01	1.89E-01	1.90E-01	1.92E-01	1.94E-01	1.97E-01	1.97E-01	1.98E-01	2.00E-01
2.0E+01	2.20E-02	2.52E-02	4.24E-02	7.44E-02	7.56E-02	7.96E-02	8.76E-02	9.16E-02	9.72E-02	9.75E-02	9.82E-02	9.96E-02	1.00E-01	1.01E-01	1.01E-01	1.01E-01	1.00E-01
3.0E+01	1.36E-02	1.64E-02	2.10E-02	2.86E-02	2.91E-02	3.03E-02	3.24E-02	3.27E-02	3.31E-02	3.32E-02	3.34E-02	3.38E-02	3.39E-02	3.39E-02	3.39E-02	3.39E-02	3.40E-02
4.0E+01	8.00E-03	9.82E-03	1.11E-02	1.30E-02	1.34E-02	1.37E-02	1.42E-02	1.42E-02	1.43E-02	1.43E-02	1.44E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02	1.40E-02
6.0E+01	2.60E-03	3.14E-03	3.28E-03	3.46E-03	3.57E-03	3.60E-03	3.65E-03	3.65E-03	3.65E-03	3.67E-03	3.68E-03	3.68E-03	3.68E-03	3.68E-03	3.69E-03	3.69E-03	3.80E-03
1.0E+02	4.00E-04	4.62E-04	4.68E-04	4.74E-04	4.87E-04	4.89E-04	4.90E-04	4.90E-04	4.90E-04	4.92E-04	4.93E-04	4.93E-04	4.93E-04	4.93E-04	4.93E-04	4.93E-04	4.90E-04
E[keV]:	2.92E+01	4.47E+00	4.16E+00	3.93E+00	8.84E-01	7.57E-01	7.15E-01	4.96E-01	4.85E-01	1.37E-01	8.90E-02	8.90E-02	2.50E-02	2.40E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																	
0.0E+00	3.87E+00	5.03E+00	5.80E+00	7.08E+00	7.72E+00	8.07E+00	8.29E+00	8.63E+00	8.79E+00	9.06E+00	9.18E+00	9.24E+00	9.36E+00	9.39E+00	9.40E+00		
5.0E-02	3.85E+00	5.01E+00	5.78E+00	7.06E+00	7.70E+00	8.05E+00	8.27E+00	8.61E+00	8.77E+00	9.04E+00	9.16E+00	9.22E+00	9.34E+00	9.37E+00	9.37E+00		
1.0E-01	3.77E+00	4.93E+00	5.69E+00	6.98E+00	7.62E+00	7.96E+00	8.18E+00	8.52E+00	8.68E+00	8.96E+00	9.08E+00	9.14E+00	9.25E+00	9.28E+00	9.28E+00		
1.5E-01	3.62E+00	4.77E+00	5.54E+00	6.82E+00	7.46E+00	7.80E+00	8.03E+00	8.36E+00	8.53E+00	8.80E+00	8.92E+00	8.98E+00	9.10E+00	9.13E+00	9.13E+00		
2.0E-01	3.41E+00	4.57E+00	5.34E+00	6.62E+00	7.25E+00	7.60E+00	7.82E+00	8.16E+00	8.32E+00	8.59E+00	8.71E+00	8.77E+00	8.89E+00	8.92E+00	8.92E+00		
3.0E-01	2.87E+00	4.02E+00	4.79E+00	6.07E+00	6.69E+00	7.03E+00	7.26E+00	7.59E+00	7.76E+00	8.03E+00	8.15E+00	8.21E+00	8.32E+00	8.36E+00	8.35E+00		
4.0E-01	2.22E+00	3.38E+00	4.14E+00	5.42E+00	6.06E+00	6.39E+00	6.62E+00	6.92E+00	7.08E+00	7.35E+00	7.47E+00	7.53E+00	7.65E+00	7.68E+00	7.68E+00		
5.0E-01	1.60E+00	2.75E+00	3.52E+00	4.79E+00	5.36E+00	5.70E+00	5.93E+00	6.26E+00	6.42E+00	6.69E+00	6.81E+00	6.87E+00	6.99E+00	7.02E+00	7.02E+00		
6.0E-01	1.08E+00	2.23E+00	2.99E+00	4.26E+00	4.80E+00	5.14E+00	5.36E+00	5.70E+00	5.86E+00	6.13E+00	6.25E+00	6.31E+00	6.42E+00	6.46E+00	6.46E+00		
7.0E-01	7.00E-01	1.85E+00	2.61E+00	3.87E+00	4.37E+00	4.71E+00	4.93E+00	5.27E+00	5.43E+00	5.69E+00	5.82E+00	5.87E+00	5.99E+00	6.02E+00	6.02E+00		
8.0E-01	4.47E-01	1.59E+00	2.35E+00	3.58E+00	4.05E+00	4.39E+00	4.62E+00	4.95E+00	5.12E+00	5.37E+00	5.49E+00	5.55E+00	5.67E+00	5.70E+00	5.70E+00		
1.0E+00	1.98E-01	1.32E+00	2.06E+00	3.24E+00	3.63E+00	3.98E+00	4.20E+00	4.54E+00	4.70E+00	4.95E+00	5.07E+00	5.13E+00	5.24E+00	5.28E+00	5.28E+00		
1.2E+00	1.22E-01	1.20E+00	1.91E+00	3.02E+00	3.33E+00	3.67E+00	3.90E+00	4.23E+00	4.39E+00	4.64E+00	4.76E+00	4.82E+00	4.93E+00	4.96E+00	4.97E+00		
1.4E+00	9.94E-02	1.11E+00	1.78E+00	2.79E+00	3.04E+00	3.38E+00	3.61E+00	3.94E+00	4.10E+00	4.33E+00	4.45E+00	4.51E+00	4.62E+00	4.66E+00	4.66E+00		
1.6E+00	8.69E-02	1.02E+00	1.63E+00	2.53E+00	2.72E+00	3.06E+00	3.29E+00	3.62E+00	3.78E+00	4.00E+00	4.12E+00	4.18E+00	4.29E+00	4.32E+00	4.32E+00		
1.8E+00	7.34E-02	9.13E-01	1.47E+00	2.25E+00	2.39E+00	2.73E+00	2.95E+00	3.28E+00	3.44E+00	3.65E+00	3.77E+00	3.83E+00	3.94E+00	3.97E+00	3.97E+00		
2.0E+00	5.90E-02	7.97E-01	1.29E+00	1.94E+00	2.05E+00	2.39E+00	2.61E+00	2.94E+00	3.10E+00	3.29E+00	3.41E+00	3.47E+00	3.58E+00	3.61E+00	3.62E+00		
2.4E+00	3.43E-02	5.79E-01	9.44E-01	1.38E+00	1.45E+00	1.78E+00	2.01E+00	2.32E+00	2.48E+00	2.64E+00	2.77E+00	2.82E+00	2.92E+00	2.96E+00	2.96E+00		
3.0E+00	1.44E-02	3.23E-01	5.33E-01	7.40E-01	7.98E-01	1.12E+00	1.35E+00	1.64E+00	1.79E+00	1.91E+00	2.03E+00	2.09E+00	2.19E+00	2.23E+00	2.23E+00		
4.0E+00	6.51E-03	1.06E-01	1.75E-01	2.43E-01	2.90E-01	6.11E-01	8.24E-01	1.07E+00	1.19E+00	1.26E+00	1.38E+00	1.44E+00	1.53E+00	1.56E+00	1.56E+00		
5.0E+00	4.62E-03	3.71E-02	5.97E-02	1.14E-01	1.46E-01	4.41E-01	6.36E-01	8.18E-01	9.10E-01	9.50E-01	1.07E+00	1.13E+00	1.21E+00	1.24E+00	1.24E+00		
6.0E+00	2.91E-03	2.10E-02	3.32E-02	8.49E-02	1.01E-01	3.59E-01	5.30E-01	6.53E-01	7.18E-01	7.42E-01	8.58E-01	9.14E-01	9.86E-01	1.02E+00	1.02E+00		
7.0E+00	1.68E-03	1.85E-02	2.97E-02	7.00E-02	7.75E-02	2.92E-01	4.36E-01	5.14E-01	5.55E-01	5.75E-01	6.87E-01	7.42E-01	8.02E-01	8.33E-01	8.33E-01		
8.0E+00	1.00E-03	1.75E-02	2.85E-02	5.51E-02	5.94E-02	2.33E-01	3.49E-01	3.96E-01	4.21E-01	4.40E-01	5.48E-01	6.00E-01	6.50E-01	6.80E-01	6.80E-01		
1.0E+01	5.16E-04	1.31E-02	2.15E-02	3.03E-02	3.39E-02	1.36E-01	2.08E-01	2.26E-01	2.35E-01	2.53E-01	3.49E-01	3.97E-01	4.29E-01	4.59E-01	4.60E-01		
1.5E+01	1.92E-04	3.61E-03	5.97E-03	8.55E-03	1.01E-02	3.41E-02	5.09E-02	6.17E-02	6.69E-02	7.31E-02	1.33E-01	1.63E-01	1.72E-01	1.98E-01	2.00E-01		
2.0E+01	6.60E-05	9.06E-04	1.47E-03	3.57E-03	3.87E-03	9.45E-03	1.34E-02	2.14E-02	2.54E-02	2.66E-02	5.86E-02	7.58E-02	7.90E-02	1.01E-01	1.00E-01		
3.0E+01	2.08E-05	8.02E-05	1.24E-04	7.20E-04	8.22E-04	1.24E-03	1.54E-03	3.62E-03	4.80E-03	5.34E-03	1.29E-02	1.75E-02	2.03E-02	3.39E-02	3.40E-02		
4.0E+01	9.80E-06	1.64E-05	2.16E-05	1.66E-04	2.42E-04	2.89E-04	3.25E-04	8.05E-04	1.13E-03	1.53E-03	3.45E-03	4.69E-03	6.51E-03	1.45E-02	1.40E-02		
6.0E+01	2.30E-06	2.53E-06	2.72E-06	1.61E-05	3.81E-05	3.97E-05	4.11E-05	8.51E-05	1.17E-04	2.31E-04	4.11E-04	5.47E-04	1.09E-03	3.69E-03	3.80E-03		
1.0E+02	2.33E-07	2.36E-07	2.39E-07	7.19E-07	3.12E-06	3.14E-06	3.16E-06	4.52E-06	5.94E-06	1.87E-05	2.47E-05	3.11E-05	9.31E-05	4.93E-04	4.90E-04		
E[keV]:	0.00E+00	2.40E-02	2.50E-02	8.90E-02	1.37E-01	4.85E-01	4.96E-01	7.15E-01	7.57E-01	8.84E-01	3.93E+00	4.16E+00	4.47E+00	2.92E+01			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1x10-2
1x10-1
1x100
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1x102
1x103
102
101
100
10-1
10-2
0.0
50Sn
Σi Ji(Q)
Q

Z=51

Compton profiles for the single orbitals and binding energies

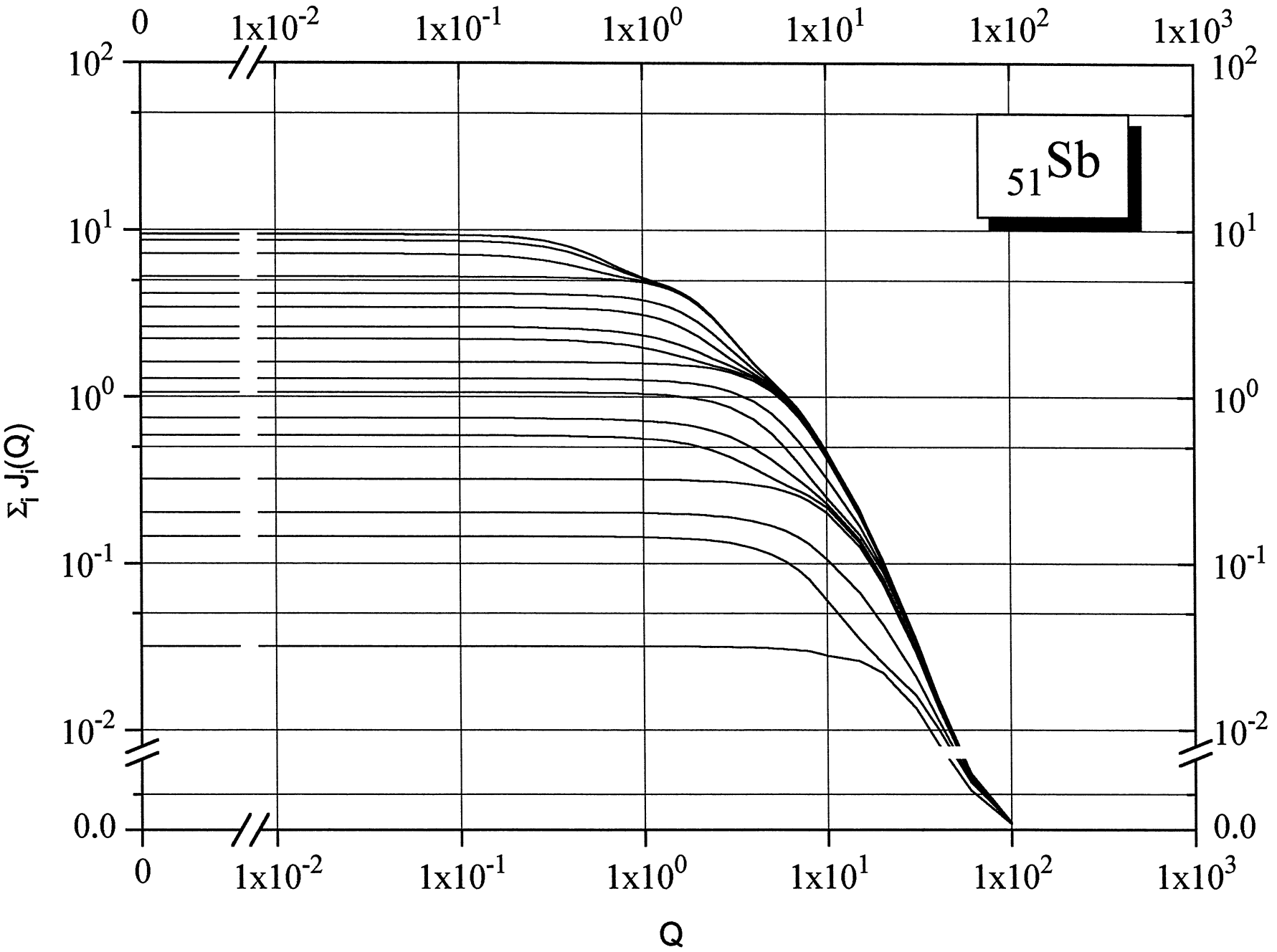
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(1)	Total
0.0E+00	1.59E-02	5.72E-02	2.85E-02	2.98E-02	1.33E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	3.09E-01	2.00E-01	2.07E-01	1.79E-01	1.81E-01	1.00E+00	7.37E-01	7.64E-01	9.51E+00
5.0E-02	1.59E-02	5.72E-02	2.85E-02	2.98E-02	1.33E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	3.08E-01	2.00E-01	2.07E-01	1.79E-01	1.81E-01	9.90E-01	7.37E-01	7.64E-01	9.48E+00
1.0E-01	1.59E-02	5.72E-02	2.85E-02	2.98E-02	1.33E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	3.07E-01	2.00E-01	2.07E-01	1.79E-01	1.81E-01	9.58E-01	7.36E-01	7.63E-01	9.41E+00
1.5E-01	1.59E-02	5.72E-02	2.85E-02	2.98E-02	1.33E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	3.05E-01	2.00E-01	2.07E-01	1.79E-01	1.81E-01	9.07E-01	7.32E-01	7.58E-01	9.30E+00
2.0E-01	1.59E-02	5.72E-02	2.85E-02	2.98E-02	1.33E-01	7.91E-02	8.16E-02	5.46E-02	5.62E-02	3.03E-01	2.00E-01	2.07E-01	1.79E-01	1.81E-01	8.41E-01	7.23E-01	7.47E-01	9.13E+00
3.0E-01	1.59E-02	5.72E-02	2.85E-02	2.98E-02	1.32E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	2.96E-01	2.00E-01	2.07E-01	1.79E-01	1.80E-01	6.79E-01	6.78E-01	6.96E-01	8.65E+00
4.0E-01	1.59E-02	5.71E-02	2.85E-02	2.98E-02	1.31E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	2.86E-01	1.99E-01	2.06E-01	1.79E-01	1.80E-01	5.08E-01	5.96E-01	6.04E-01	8.03E+00
5.0E-01	1.59E-02	5.71E-02	2.85E-02	2.98E-02	1.30E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	2.74E-01	1.99E-01	2.06E-01	1.79E-01	1.80E-01	3.55E-01	4.89E-01	4.87E-01	7.36E+00
6.0E-01	1.59E-02	5.70E-02	2.85E-02	2.98E-02	1.29E-01	7.91E-02	8.16E-02	5.46E-02	5.52E-02	2.61E-01	1.98E-01	2.04E-01	1.79E-01	1.80E-01	2.34E-01	3.77E-01	3.67E-01	6.73E+00
7.0E-01	1.59E-02	5.69E-02	2.85E-02	2.98E-02	1.28E-01	7.91E-02	8.15E-02	5.46E-02	5.52E-02	2.45E-01	1.96E-01	2.03E-01	1.78E-01	1.80E-01	1.49E-01	2.75E-01	2.62E-01	6.21E+00
8.0E-01	1.59E-02	5.68E-02	2.85E-02	2.98E-02	1.26E-01	7.90E-02	8.15E-02	5.46E-02	5.52E-02	2.29E-01	1.94E-01	2.00E-01	1.78E-01	1.79E-01	9.47E-02	1.92E-01	1.78E-01	5.79E+00
1.0E+00	1.59E-02	5.65E-02	2.85E-02	2.98E-02	1.22E-01	7.90E-02	8.14E-02	5.46E-02	5.52E-02	1.94E-01	1.88E-01	1.93E-01	1.75E-01	1.76E-01	4.85E-02	8.49E-02	7.46E-02	5.23E+00
1.2E+00	1.59E-02	5.62E-02	2.85E-02	2.98E-02	1.18E-01	7.88E-02	8.12E-02	5.46E-02	5.52E-02	1.59E-01	1.78E-01	1.82E-01	1.70E-01	1.71E-01	4.04E-02	3.56E-02	3.03E-02	4.88E+00
1.4E+00	1.59E-02	5.58E-02	2.85E-02	2.98E-02	1.13E-01	7.86E-02	8.10E-02	5.46E-02	5.52E-02	1.27E-01	1.65E-01	1.67E-01	1.62E-01	1.63E-01	4.01E-02	1.71E-02	1.53E-02	4.59E+00
1.6E+00	1.59E-02	5.53E-02	2.85E-02	2.98E-02	1.07E-01	7.82E-02	8.06E-02	5.46E-02	5.52E-02	9.82E-02	1.50E-01	1.50E-01	1.52E-01	1.53E-01	3.75E-02	1.19E-02	1.16E-02	4.29E+00
1.8E+00	1.59E-02	5.48E-02	2.85E-02	2.98E-02	1.02E-01	7.77E-02	8.00E-02	5.46E-02	5.51E-02	7.49E-02	1.32E-01	1.31E-01	1.40E-01	1.40E-01	3.19E-02	1.10E-02	1.13E-02	3.98E+00
2.0E+00	1.59E-02	5.43E-02	2.85E-02	2.97E-02	9.55E-02	7.71E-02	7.93E-02	5.45E-02	5.51E-02	5.68E-02	1.15E-01	1.12E-01	1.26E-01	1.26E-01	2.50E-02	1.10E-02	1.11E-02	3.66E+00
2.4E+00	1.58E-02	5.30E-02	2.84E-02	2.97E-02	8.27E-02	7.53E-02	7.72E-02	5.44E-02	5.49E-02	3.48E-02	8.01E-02	7.62E-02	9.71E-02	9.66E-02	1.29E-02	9.61E-03	9.26E-03	3.04E+00
3.0E+00	1.58E-02	5.08E-02	2.84E-02	2.97E-02	6.38E-02	7.11E-02	7.25E-02	5.39E-02	5.44E-02	2.45E-02	4.09E-02	3.74E-02	5.90E-02	5.80E-02	4.33E-03	5.58E-03	4.97E-03	2.30E+00
4.0E+00	1.57E-02	4.63E-02	2.82E-02	2.95E-02	3.76E-02	6.05E-02	6.07E-02	5.20E-02	5.24E-02	2.32E-02	1.31E-02	1.22E-02	2.10E-02	2.02E-02	2.56E-03	1.45E-03	1.22E-03	1.59E+00
5.0E+00	1.55E-02	4.12E-02	2.79E-02	2.91E-02	2.08E-02	4.70E-02	4.61E-02	4.82E-02	4.84E-02	1.70E-02	8.97E-03	9.21E-03	6.96E-03	6.67E-03	2.18E-03	6.17E-04	6.00E-04	1.25E+00
6.0E+00	1.53E-02	3.58E-02	2.74E-02	2.85E-02	1.25E-02	3.35E-02	3.21E-02	4.27E-02	4.28E-02	9.25E-03	8.75E-03	8.85E-03	3.39E-03	3.34E-03	1.27E-03	5.79E-04	5.79E-04	1.03E+00
7.0E+00	1.51E-02	3.04E-02	2.67E-02	2.77E-02	9.64E-03	2.22E-02	2.07E-02	3.63E-02	3.63E-02	4.37E-03	7.35E-03	7.10E-03	2.90E-03	2.92E-03	5.92E-04	5.17E-04	4.92E-04	8.48E-01
8.0E+00	1.49E-02	2.52E-02	2.58E-02	2.66E-02	9.09E-03	1.39E-02	1.26E-02	2.98E-02	2.96E-02	2.37E-03	5.22E-03	4.82E-03	2.87E-03	2.89E-03	2.85E-04	3.82E-04	3.46E-04	6.96E-01
1.0E+01	1.40E-02	1.60E-02	2.30E-02	2.40E-02	8.70E-03	5.30E-03	4.80E-03	1.90E-02	1.80E-02	1.80E-03	1.90E-03	1.70E-03	2.30E-03	2.30E-03	1.90E-04	1.50E-04	1.20E-04	4.70E-01
1.5E+01	1.30E-02	4.50E-03	1.60E-02	1.50E-02	3.30E-03	2.50E-03	2.70E-03	4.60E-03	4.40E-03	8.70E-04	4.20E-04	4.40E-04	7.00E-04	6.80E-04	9.40E-05	2.80E-05	2.80E-05	2.10E-01
2.0E+01	1.10E-02	1.60E-03	8.90E-03	8.30E-03	7.00E-04	2.10E-03	2.00E-03	1.10E-03	1.10E-03	1.70E-04	3.70E-04	3.70E-04	1.80E-04	1.70E-04	1.90E-05	2.40E-05	2.40E-05	1.00E-01
3.0E+01	6.80E-03	1.30E-03	2.40E-03	2.10E-03	2.70E-04	6.40E-04	5.70E-04	8.90E-05	8.10E-05	5.20E-05	1.20E-04	1.10E-04	1.40E-05	1.30E-05	5.30E-06	8.10E-06	6.90E-06	3.50E-02
4.0E+01	4.10E-03	9.30E-04	6.80E-04	5.30E-04	2.00E-04	1.70E-04	1.40E-04	1.10E-05	9.40E-06	4.00E-05	3.20E-05	2.60E-05	1.70E-06	1.40E-06	4.10E-06	2.20E-06	1.70E-06	1.50E-02
6.0E+01	1.40E-03	2.90E-04	7.70E-05	5.10E-05	6.20E-05	1.80E-05	1.20E-05	4.20E-07	3.30E-07	1.20E-05	3.40E-06	2.30E-06	6.30E-08	5.00E-08	1.20E-06	2.30E-07	1.50E-07	4.00E-03
1.0E+02	2.10E-04	3.40E-05	3.70E-06	1.70E-06	7.10E-06	8.30E-07	4.00E-07	5.70E-09	3.60E-09	1.40E-06	1.50E-07	7.30E-08	8.70E-10	5.60E-10	1.40E-07	1.00E-08	4.70E-09	5.30E-04
E[keV]:	3.05E+01	4.70E+00	4.38E+00	4.13E+00	9.44E-01	8.12E-01	7.66E-01	5.37E-01	5.28E-01	1.52E-01	9.90E-02	9.90E-02	3.30E-02	3.20E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(1)	Total
0.0E+00	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.88E-01	7.47E-01	1.07E+00	1.29E+00	1.62E+00	2.24E+00	2.64E+00	3.47E+00	4.18E+00	5.27E+00	7.27E+00	8.74E+00	9.51E+00	9.51E+00
5.0E-02	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.88E-01	7.47E-01	1.07E+00	1.29E+00	1.62E+00	2.24E+00	2.64E+00	3.47E+00	4.18E+00	5.27E+00	7.25E+00	8.72E+00	9.49E+00	9.48E+00
1.0E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.88E-01	7.47E-01	1.07E+00	1.29E+00	1.62E+00	2.24E+00	2.64E+00	3.46E+00	4.18E+00	5.27E+00	7.18E+00	8.65E+00	9.42E+00	9.41E+00
1.5E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.88E-01	7.47E-01	1.07E+00	1.29E+00	1.62E+00	2.23E+00	2.63E+00	3.46E+00	4.18E+00	5.26E+00	7.08E+00	8.54E+00	9.30E+00	9.30E+00
2.0E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.88E-01	7.47E-01	1.07E+00	1.29E+00	1.63E+00	2.23E+00	2.63E+00	3.46E+00	4.18E+00	5.26E+00	6.95E+00	8.39E+00	9.14E+00	9.13E+00
3.0E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.86E-01	7.45E-01	1.07E+00	1.29E+00	1.62E+00	2.21E+00	2.61E+00	3.44E+00	4.16E+00	5.24E+00	6.59E+00	7.95E+00	8.65E+00	8.65E+00
4.0E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.84E-01	7.42E-01	1.07E+00	1.29E+00	1.62E+00	2.19E+00	2.59E+00	3.41E+00	4.13E+00	5.21E+00	6.22E+00	7.42E+00	8.02E+00	8.03E+00
5.0E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.82E-01	7.40E-01	1.07E+00	1.29E+00	1.62E+00	2.16E+00	2.56E+00	3.39E+00	4.10E+00	5.18E+00	5.89E+00	6.87E+00	7.36E+00	7.36E+00
6.0E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.80E-01	7.38E-01	1.06E+00	1.28E+00	1.61E+00	2.14E+00	2.53E+00	3.35E+00	4.06E+00	5.14E+00	5.61E+00	6.37E+00	6.73E+00	6.73E+00
7.0E-01	3.18E-02	1.46E-01	2.03E-01	3.22E-01	5.78E-01	7.36E-01	1.06E+00	1.28E+00	1.61E+00	2.10E+00	2.49E+00	3.31E+00	4.02E+00	5.10E+00	5.40E+00	5.95E+00	6.21E+00	6.21E+00
8.0E-01	3.18E-02	1.45E-01	2.02E-01	3.22E-01	5.74E-01	7.32E-01	1.06E+00	1.28E+00	1.61E+00	2.07E+00	2.45E+00	3.25E+00	3.97E+00	5.04E+00	5.23E+00	5.61E+00	5.79E+00	5.79E+00
1.0E+00	3.18E-02	1.45E-01	2.02E-01	3.21E-01	5.65E-01	7.23E-01	1.05E+00	1.27E+00	1.60E+00	1.99E+00	2.36E+00	3.13E+00	3.83E+00	4.89E+00	4.99E+00	5.16E+00	5.23E+00	5.23E+00
1.2E+00	3.18E-02	1.44E-01	1.98E-01	3.20E-01	5.49E-01	7.14E-01	1.04E+00	1.26E+00	1.59E+00	1.91E+00	2.26E+00	2.99E+00	3.67E+00	4.70E+00	4.78E+00	4.85E+00	4.88E+00	4.88E+00
1.4E+00	3.18E-02	1.43E-01	2.00E-01	3.20E-01	5.46E-01	7.03E-01	1.03E+00	1.25E+00	1.58E+00	1.83E+00	2.16E+00	2.83E+00	3.48E+00	4.45E+00	4.53E+00	4.57E+00	4.58E+00	4.59E+00
1.6E+00	3.18E-02	1.42E-01	1.99E-01	3.19E-01	5.33E-01	6.89E-01	1.01E+00	1.23E+00	1.56E+00	1.76E+00	2.06E+00	2.66E+00	3.27E+00	4.18E+00	4.26E+00	4.28E+00	4.29E+00	4.29E+00
1.8E+00	3.18E-02	1.41E-01	1.98E-01	3.18E-01	5.22E-01	6.77E-01	9.97E-01	1.22E+00	1.55E+00	1.70E+00	1.96E+00	2.48E+00	3.04E+00	3.88E+00	3.95E+00	3.97E+00	3.98E+00	3.98E+00
2.0E+00	3.18E-02	1.40E-01	1.97E-01	3.16E-01	5.07E-01	6.61E-01	9.79E-01	1.20E+00	1.53E+00	1.64E+00	1.87E+00	2.32E+00	2.82E+00	3.58E+00	3.63E+00	3.65E+00	3.66E+00	3.66E+00
2.4E+00	3.16E-02	1.38E-01	1.94E-01	3.13E-01	4.79E-01	6.29E-01	9.38E-01	1.16E+00	1.49E+00	1.55E+00	1.71E+00	2.02E+00	2.41E+00	2.99E+00	3.01E+00	3.03E+00	3.04E+00	3.04E+00
3.0E+00	3.16E-02	1.33E-01	1.90E-01	3.09E-01	4.36E-01	5.79E-01	8.69E-01	1.08E+00	1.41E+00	1.46E+00	1.54E+00	1.69E+00	1.93E+00	2.28E+00	2.28E+00	2.29E+00	2.30E+00	2.30E+00
4.0E+00	3.14E-02	1.24E-01	1.80E-01	2.98E-01	3.74E-01	4.95E-01	7.37E-01	9.45E-01	1.26E+00	1.31E+00	1.33E+00	1.38E+00	1.47E+00	1.59E+00	1.59E+00	1.59E+00	1.60E+00	1.59E+00
5.0E+00	3.10E-02	1.13E-01	1.69E-01	2.86E-01	3.27E-01	4.21E-01	6.06E-01	7.98E-01	1.09E+00	1.12E+00	1.14E+00	1.18E+00	1.21E+00	1.25E+00	1.25E+00	1.25E+00	1.25E+00	1.25E+00
6.0E+00	3.06E-02	1.02E-01	1.57E-01	2.71E-01	2.96E-01	3.63E-01	4.91E-01	6.62E-01	9.19E-01	9.38E-01	9.55E-01	9.90E-01	1.00E+00	1.02E+00	1.03E+00	1.03E+00	1.03E+00	1.03E+00
7.0E+00	3.02E-02	9.10E-02	1.44E-01	2.55E-01	2.74E-01	3.19E-01	4.02E-01	5.47E-01	7.65E-01	7.73E-01	7.88E-01	8.17E-01	8.28E-01	8.46E-01	8.47E-01	8.48E-01	8.48E-01	8.48E-01
8.0E+00	2.98E-02	8.02E-02	1.32E-01	2.39E-01	2.54E-01	2.84E-01	3.29E-01	4.54E-01	6.34E-01	6.36E-01	6.46E-01	6.77E-01	6.95E-01	6.95E-01	6.95E-01	6.96E-01	6.96E-01	6.96E-01
1.0E+01	2.80E-02	6.00E-02	1.06E-01	2.02E-01	2.19E-01	2.30E-01	2.49E-01	3.25E-01	4.33E-01	4.37E-01	4.41E-01	4.47E-01	4.57E-01	4.70E-01	4.71E-01	4.71E-01	4.71E-01	4.70E-01
1.5E+01	2.60E-02	3.50E-02	6.70E-02	1.27E-01	1.34E-01	1.39E-01	1.49E-01	1.68E-01	1.94E-01	1.96E-01	1.97E-01	1.99E-01	2.01E-01	2.05E-01	2.06E-01	2.06E-01	2.06E-01	2.10E-01
2.0E+01	2.20E-02	2.52E-02	4.30E-02	7.62E-02	7.76E-02	8.18E-02	8.98E-02	9.42E-02	1.01E-01	1.01E-01	1.02E-01	1.03E-01	1.04E-01	1.05E-01	1.05E-01	1.05E-01	1.05E-01	1.00E-01
3.0E+01	1.36E-02	1.62E-02	2.10E-02	2.94E-02	2.99E-02	3.12E-02	3.35E-02	3.39E-02	3.43E-02	3.44E-02	3.47E-02	3.51E-02	3.52E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02	3.50E-02
4.0E+01	8.20E-03	1.01E-02	1.14E-02	1.35E-02	1.39E-02	1.43E-02	1.48E-02	1.49E-02	1.49E-02	1.50E-02	1.51E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.50E-02
6.0E+01	2.80E-03	3.38E-03	3.53E-03	3.74E-03	3.86E-03	3.90E-03	3.95E-03	3.95E-03	3.95E-03	3.97E-03	3.98E-03	3.99E-03	3.99E-03	3.99E-03	3.99E-03	3.99E-03	3.99E-03	4.00E-03
1.0E+02	4.20E-04	4.88E-04	4.95E-04	5.02E-04	5.16E-04	5.18E-04	5.20E-04	5.20E-04	5.20E-04	5.23E-04	5.23E-04	5.23E-04	5.23E-04	5.23E-04	5.23E-04	5.23E-04	5.23E-04	5.30E-04
E[keV]:	3.05E+01	4.70E+00	4.38E+00	4.13E+00	9.44E-01	8.12E-01	7.66E-01	5.37E-01	5.28E-01	1.52E-01	9.90E-02	9.90E-02	3.30E-02	3.20E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																		
0.0E+00	4.24E+00	5.32E+00	6.04E+00	7.27E+00	7.89E+00	8.22E+00	8.44E+00	8.76E+00	8.92E+00	9.19E+00	9.31E+00	9.36E+00	9.48E+00	9.51E+00	9.51E+00			
5.0E-02	4.22E+00	5.30E+00	6.02E+00	7.25E+00	7.86E+00	8.20E+00	8.41E+00	8.74E+00	8.90E+00	9.16E+00	9.28E+00	9.34E+00	9.45E+00	9.49E+00	9.48E+00			
1.0E-01	4.15E+00	5.24E+00	5.95E+00	7.18E+00	7.80E+00	8.13E+00	8.34E+00	8.67E+00	8.83E+00	9.10E+00	9.21E+00	9.27E+00	9.39E+00	9.42E+00	9.41E+00			
1.5E-01	4.04E+00	5.12E+00	5.84E+00	7.07E+00	7.68E+00	8.01E+00	8.23E+00	8.55E+00	8.71E+00	8.98E+00	9.10E+00	9.15E+00	9.27E+00	9.30E+00	9.30E+00			
2.0E-01	3.88E+00	4.96E+00	5.68E+00	6.91E+00	7.51E+00	7.85E+00	8.07E+00	8.39E+00	8.55E+00	8.82E+00	8.94E+00	8.99E+00	9.11E+00	9.14E+00	9.13E+00			
3.0E-01	3.41E+00	4.49E+00	5.21E+00	6.43E+00	7.03E+00	7.36E+00	7.58E+00	7.90E+00	8.06E+00	8.32E+00	8.44E+00	8.50E+00	8.61E+00	8.65E+00	8.65E+00			
4.0E-01	2.81E+00	3.89E+00	4.61E+00	5.83E+00	6.40E+00	6.73E+00	6.95E+00	7.28E+00	7.44E+00	7.70E+00	7.82E+00	7.87E+00	7.99E+00	8.02E+00	8.03E+00			
5.0E-01	2.17E+00	3.26E+00	3.97E+00	5.19E+00	5.74E+00	6.07E+00	6.29E+00	6.62E+00	6.78E+00	7.04E+00	7.15E+00	7.21E+00	7.33E+00	7.36E+00	7.36E+00			
6.0E-01	1.59E+00	2.67E+00	3.39E+00	4.60E+00	5.12E+00	5.45E+00	5.67E+00	5.99E+00	6.15E+00	6.41E+00	6.53E+00	6.59E+00	6.70E+00	6.73E+00	6.73E+00			
7.0E-01	1.11E+00	2.19E+00	2.90E+00	4.11E+00	4.68E+00	5.01E+00	5.23E+00	5.57E+00	5.73E+00	5.99E+00	6.00E+00	6.06E+00	6.18E+00	6.21E+00	6.21E+00			
8.0E-01	7.51E-01	1.83E+00	2.54E+00	3.73E+00	4.18E+00	4.51E+00	4.73E+00	5.06E+00	5.22E+00	5.47E+00	5.59E+00	5.65E+00	5.76E+00	5.79E+00	5.79E+00			
1.0E+00	3.41E-01	1.40E+00	2.10E+00	3.25E+00	3.63E+00	3.96E+00	4.18E+00	4.51E+00	4.67E+00	4.91E+00	5.03E+00	5.09E+00	5.20E+00	5.23E+00	5.23E+00			
1.2E+00	1.82E-01	1.21E+00	1.89E+00	2.97E+00	3.29E+00	3.62E+00	3.84E+00	4.16E+00	4.32E+00	4.56E+00	4.68E+00	4.73E+00	4.85E+00	4.88E+00	4.88E+00			
1.4E+00	1.30E-01	1.11E+00	1.76E+00	2.75E+00	3.01E+00	3.34E+00	3.56E+00	3.88E+00	4.04E+00	4.26E+00	4.38E+00	4.44E+00	4.55E+00	4.58E+00	4.59E+00			
1.6E+00	1.10E-01	1.03E+00	1.64E+00	2.54E+00	2.73E+00	3.06E+00	3.28E+00	3.60E+00	3.76E+00	3.98E+00	4.09E+00	4.15E+00	4.26E+00	4.29E+00	4.29E+00			
1.8E+00	9.71E-02	9.37E-01	1.50E+00	2.29E+00	2.43E+00	2.77E+00	2.98E+00	3.30E+00	3.46E+00	3.66E+00	3.78E+00	3.84E+00	3.95E+00	3.98E+00	3.98E+00			
2.0E+00	8.31E-02	8.39E-01	1.34E+00	2.02E+00	2.13E+00	2.47E+00	2.68E+00	3.00E+00	3.15E+00	3.35E+00	3.46E+00	3.52E+00	3.63E+00	3.66E+00	3.66E+00			
2.4E+00	5.43E-02	6.34E-01	1.02E+00	1.49E+00	1.56E+00	1.89E+00	2.10E+00	2.41E+00	2.56E+00	2.73E+00	2.85E+00	2.90E+00	3.01E+00	3.04E+00	3.04E+00			
3.0E+00	2.48E-02	3.73E-01	6.09E-01	8.40E-01	8.89E-01	1.22E+00	1.43E+00	1.72E+00	1.86E+00	1.99E+00	2.11E+00	2.17E+00	2.27E+00	2.30E+00	2.30E+00			
4.0E+00	9.24E-03	1.30E-01	2.14E-01	2.89E-01	3.36E-01	6.50E-01	8.58E-01	1.10E+00	1.22E+00	1.30E+00	1.42E+00	1.47E+00	1.56E+00	1.60E+00	1.59E+00			
5.0E+00	6.19E-03	4.62E-02	7.41E-02	1.29E-01	1.63E-01	4.53E-01	6.46E-01	8.30E-01	9.24E-01	9.66E-01	1.08E+00	1.14E+00	1.22E+00	1.25E+00	1.25E+00			
6.0E+00	4.28E-03	2.43E-02	3.79E-02	9.08E-02	1.09E-01	3.66E-01	5.37E-01	6.65E-01	7.32E-01	7.57E-01	8.71E-01	9.26E-01	9.98E-01	1.03E+00	1.03E+00			
7.0E+00	2.71E-03	2.02E-02	3.18E-02	7.49E-02	8.37E-02	3.01E-01	4.47E-01	5.29E-01	5.74E-01	5.93E-01	7.04E-01	7.57E-01	8.18E-01	8.48E-01	8.48E-01			
8.0E+00	1.68E-03	1.90E-02	3.05E-02	6.02E-02	6.50E-02	2.43E-01	3.62E-01	4.12E-01	4.40E-01	4.58E-01	5.65E-01	6.16E-01	6.67E-01	6.96E-01	6.96E-01			
1.0E+01	8.00E-04	1.46E-02	2.38E-02	3.44E-02	3.80E-02	1.46E-01	2.22E-01	2.41E-01	2.52E-01	2.69E-01	3.65E-01	4.11E-01	4.43E-01	4.71E-01	4.70E-01			
1.5E+01	2.72E-04	4.35E-03	7.15E-03	9.75E-03	1.15E-02	3.79E-02	5.63E-02	6.71E-02	7.21E-02	7.87E-02	1.39E-01	1.71E-01	1.80E-01	2.06E-01	2.10E-01			
2.0E+01	1.10E-04	1.13E-03	1.85E-03	4.07E-03	4.41E-03	1.10E-02	1.54E-02	2.34E-02	2.76E-02	2.90E-02	6.22E-02	8.00E-02	8.32E-02	1.05E-01	1.00E-01			
3.0E+01	3.37E-05	1.12E-04	1.66E-04	8.48E-04	9.52E-04	1.44E-03	1.79E-03	4.07E-03	5.35E-03	5.89E-03	1.43E-02	1.91E-02	2.17E-02	3.53E-02	3.50E-02			
4.0E+01	1.43E-05	2.27E-05	2.95E-05	1.98E-04	2.78E-04	3.34E-04	3.78E-04	9.38E-04	1.28E-03	1.68E-03	3.80E-03	5.16E-03	7.02E-03	1.52E-02	1.50E-02			
6.0E+01	3.01E-06	3.31E-06	3.56E-06	1.96E-05	4.36E-05	4.55E-05	4.72E-05	9.52E-05	1.31E-04	2.55E-04	4.59E-04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10-2
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51Sb
Σi Ji(Q)
Q

Z=52

Compton profiles for the single orbitals and binding energies

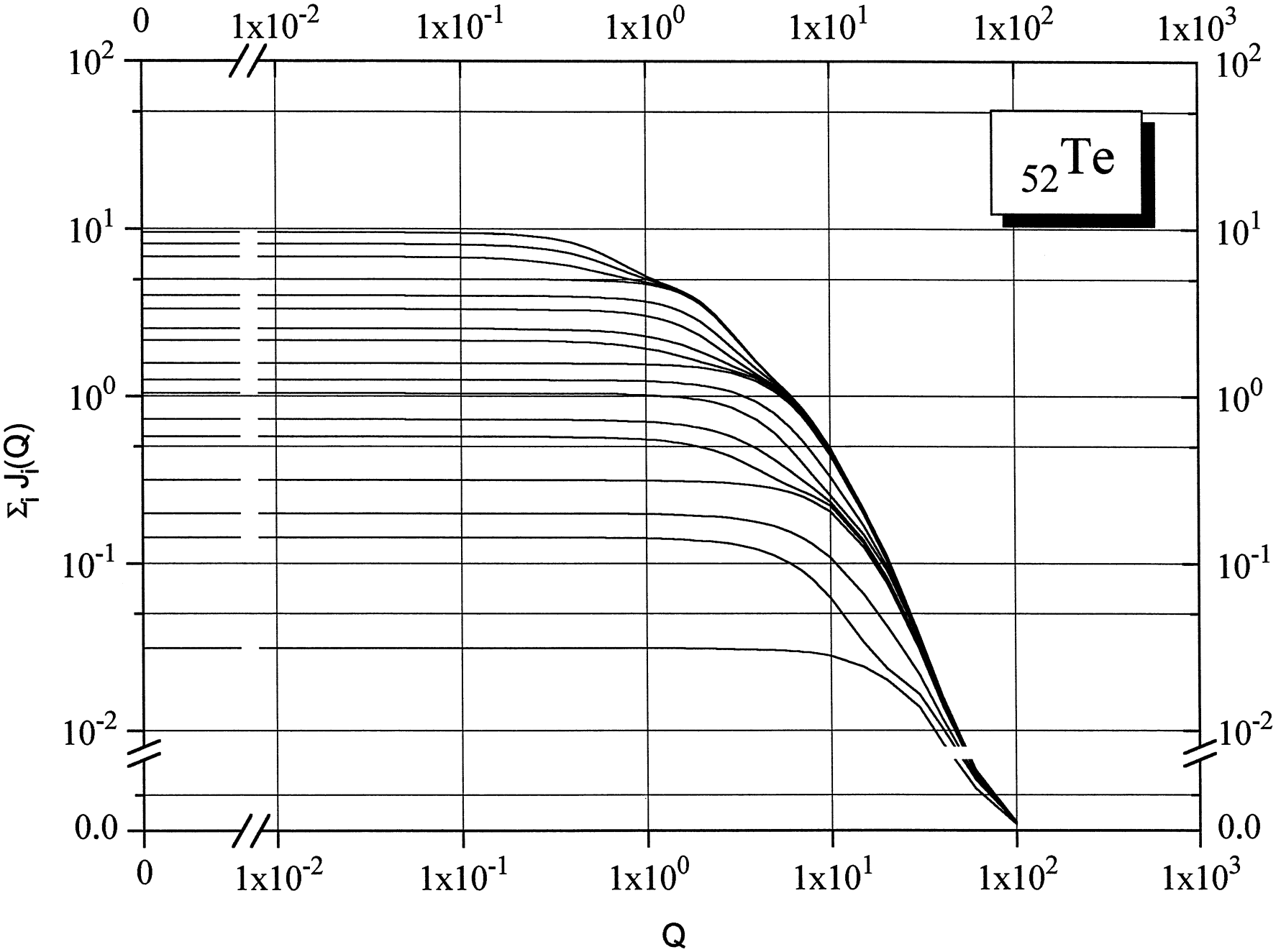
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(2)	Total
0.0E+00	1.56E-02	5.59E-02	2.78E-02	2.91E-02	1.30E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.96E-01	1.91E-01	1.98E-01	1.68E-01	1.70E-01	9.20E-01	6.65E-01	6.93E-01	9.60E+00
5.0E-02	1.56E-02	5.59E-02	2.78E-02	2.91E-02	1.30E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.96E-01	1.91E-01	1.98E-01	1.68E-01	1.70E-01	9.11E-01	6.65E-01	6.93E-01	9.58E+00
1.0E-01	1.56E-02	5.59E-02	2.78E-02	2.91E-02	1.29E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.95E-01	1.91E-01	1.98E-01	1.68E-01	1.70E-01	8.86E-01	6.64E-01	6.93E-01	9.52E+00
1.5E-01	1.56E-02	5.59E-02	2.78E-02	2.91E-02	1.29E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.93E-01	1.91E-01	1.98E-01	1.68E-01	1.70E-01	8.45E-01	6.62E-01	6.90E-01	9.43E+00
2.0E-01	1.56E-02	5.59E-02	2.78E-02	2.91E-02	1.29E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.91E-01	1.91E-01	1.98E-01	1.68E-01	1.70E-01	7.92E-01	6.56E-01	6.82E-01	9.29E+00
3.0E-01	1.56E-02	5.59E-02	2.78E-02	2.91E-02	1.29E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.85E-01	1.91E-01	1.98E-01	1.68E-01	1.70E-01	6.59E-01	6.26E-01	6.47E-01	8.88E+00
4.0E-01	1.56E-02	5.58E-02	2.78E-02	2.91E-02	1.28E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.76E-01	1.91E-01	1.98E-01	1.68E-01	1.70E-01	5.12E-01	5.69E-01	5.81E-01	8.32E+00
5.0E-01	1.56E-02	5.58E-02	2.78E-02	2.91E-02	1.27E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.66E-01	1.91E-01	1.97E-01	1.68E-01	1.70E-01	3.74E-01	4.89E-01	4.90E-01	7.67E+00
6.0E-01	1.56E-02	5.57E-02	2.78E-02	2.91E-02	1.26E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.53E-01	1.90E-01	1.96E-01	1.68E-01	1.70E-01	2.59E-01	3.97E-01	3.90E-01	7.03E+00
7.0E-01	1.56E-02	5.56E-02	2.78E-02	2.91E-02	1.25E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.39E-01	1.89E-01	1.95E-01	1.68E-01	1.70E-01	1.73E-01	3.07E-01	2.94E-01	6.44E+00
8.0E-01	1.56E-02	5.55E-02	2.78E-02	2.91E-02	1.23E-01	7.69E-02	7.94E-02	5.30E-02	5.36E-02	2.24E-01	1.87E-01	1.93E-01	1.67E-01	1.69E-01	1.14E-01	2.27E-01	2.12E-01	5.95E+00
1.0E+00	1.56E-02	5.52E-02	2.78E-02	2.91E-02	1.20E-01	7.68E-02	7.93E-02	5.30E-02	5.36E-02	1.92E-01	1.81E-01	1.86E-01	1.66E-01	1.67E-01	5.60E-02	1.13E-01	9.98E-02	5.25E+00
1.2E+00	1.56E-02	5.49E-02	2.78E-02	2.91E-02	1.16E-01	7.67E-02	7.91E-02	5.30E-02	5.36E-02	1.60E-01	1.73E-01	1.77E-01	1.62E-01	1.63E-01	4.20E-02	5.13E-02	4.37E-02	4.82E+00
1.4E+00	1.56E-02	5.46E-02	2.78E-02	2.91E-02	1.11E-01	7.65E-02	7.89E-02	5.30E-02	5.36E-02	1.29E-01	1.62E-01	1.64E-01	1.56E-01	1.58E-01	4.09E-02	2.43E-02	2.10E-02	4.52E+00
1.6E+00	1.56E-02	5.41E-02	2.78E-02	2.91E-02	1.06E-01	7.61E-02	7.85E-02	5.30E-02	5.36E-02	1.02E-01	1.49E-01	1.49E-01	1.48E-01	1.49E-01	3.97E-02	1.47E-02	1.38E-02	4.25E+00
1.8E+00	1.55E-02	5.37E-02	2.78E-02	2.91E-02	1.00E-01	7.57E-02	7.80E-02	5.30E-02	5.36E-02	7.88E-02	1.33E-01	1.32E-01	1.38E-01	1.39E-01	3.55E-02	1.23E-02	1.24E-02	3.97E+00
2.0E+00	1.55E-02	5.31E-02	2.78E-02	2.91E-02	9.45E-02	7.52E-02	7.74E-02	5.30E-02	5.35E-02	6.05E-02	1.17E-01	1.15E-01	1.27E-01	1.27E-01	2.92E-02	1.21E-02	1.23E-02	3.63E+00
2.4E+00	1.55E-02	5.20E-02	2.78E-02	2.91E-02	8.24E-02	7.36E-02	7.55E-02	5.28E-02	5.34E-02	3.70E-02	8.43E-02	8.07E-02	1.01E-01	1.01E-01	1.64E-02	1.13E-02	1.11E-02	3.11E+00
3.0E+00	1.54E-02	4.99E-02	2.77E-02	2.90E-02	6.44E-02	6.98E-02	7.13E-02	5.24E-02	5.30E-02	2.47E-02	4.52E-02	4.15E-02	6.49E-02	6.39E-02	5.65E-03	7.32E-03	6.60E-03	2.37E+00
4.0E+00	1.53E-02	4.57E-02	2.76E-02	2.89E-02	3.88E-02	6.01E-02	6.04E-02	5.08E-02	5.12E-02	2.32E-02	1.46E-02	1.34E-02	2.49E-02	2.40E-02	2.77E-03	2.08E-03	1.73E-03	1.63E+00
5.0E+00	1.52E-02	4.08E-02	2.73E-02	2.85E-02	2.19E-02	4.75E-02	4.68E-02	4.74E-02	4.78E-02	1.80E-02	9.04E-03	9.24E-03	8.54E-03	8.16E-03	2.50E-03	7.71E-04	7.26E-04	1.27E+00
6.0E+00	1.50E-02	3.57E-02	2.69E-02	2.80E-02	1.31E-02	3.46E-02	3.32E-02	4.25E-02	4.27E-02	1.03E-02	8.82E-03	9.01E-03	3.82E-03	3.74E-03	1.56E-03	6.78E-04	6.80E-04	1.04E+00
7.0E+00	1.48E-02	3.05E-02	2.62E-02	2.72E-02	9.71E-03	2.34E-02	2.19E-02	3.66E-02	3.66E-02	5.03E-03	7.72E-03	7.54E-03	3.01E-03	3.02E-03	7.63E-04	6.30E-04	6.05E-04	8.62E-01
8.0E+00	1.46E-02	2.55E-02	2.54E-02	2.63E-02	8.95E-03	1.50E-02	1.36E-02	3.04E-02	3.02E-02	2.63E-03	5.72E-03	5.33E-03	2.97E-03	2.99E-03	3.61E-04	4.89E-04	4.46E-04	7.12E-01
1.0E+01	1.40E-02	1.70E-02	2.30E-02	2.40E-02	8.70E-03	5.80E-03	5.20E-03	1.90E-02	1.90E-02	1.80E-03	2.30E-03	2.00E-03	2.50E-03	2.50E-03	2.10E-04	2.00E-04	1.70E-04	4.90E-01
1.5E+01	1.20E-02	4.80E-03	1.60E-02	1.50E-02	3.60E-03	2.50E-03	2.70E-03	5.00E-03	4.90E-03	9.70E-04	4.30E-04	4.50E-04	8.20E-04	7.90E-04	1.10E-04	3.30E-05	3.40E-05	2.10E-01
2.0E+01	1.00E-02	1.70E-03	9.20E-03	8.60E-03	7.90E-04	2.10E-03	2.10E-03	1.30E-03	1.20E-03	2.10E-04	3.80E-04	3.90E-04	2.10E-04	2.00E-04	2.40E-05	3.00E-05	2.90E-05	1.10E-01
3.0E+01	6.90E-03	1.30E-03	2.60E-03	2.20E-03	2.60E-04	6.90E-04	6.10E-04	1.00E-04	9.40E-05	5.20E-05	1.30E-04	1.20E-04	1.70E-05	1.60E-05	5.80E-06	1.10E-05	9.10E-06	3.70E-02
4.0E+01	4.20E-03	9.60E-04	7.40E-04	5.80E-04	2.10E-04	1.90E-04	1.60E-04	1.30E-05	1.10E-05	4.20E-05	3.70E-05	3.00E-05	2.10E-06	1.80E-06	4.70E-06	2.90E-06	2.30E-06	1.60E-02
6.0E+01	1.50E-03	3.10E-04	8.70E-05	5.70E-05	6.70E-05	2.10E-05	1.40E-05	5.00E-07	4.00E-07	1.40E-06	4.00E-06	2.70E-06	8.20E-08	6.40E-08	1.50E-06	3.10E-07	2.10E-07	4.30E-03
1.0E+02	2.30E-04	3.80E-05	4.20E-06	2.00E-06	7.80E-06	9.70E-07	4.60E-07	7.00E-09	4.40E-09	1.60E-06	1.80E-07	8.70E-08	1.10E-09	7.20E-10	1.80E-07	1.40E-08	6.60E-09	5.80E-04
E[keV]:	3.18E+01	4.94E+00	4.61E+00	4.34E+00	1.01E+00	8.70E-01	8.19E-01	5.83E-01	5.73E-01	1.69E-01	1.10E-01	1.10E-01	4.20E-02	4.00E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(2)	Total
0.0E+00	3.12E-02	1.43E-01	1.99E-01	3.15E-01	5.75E-01	7.29E-01	1.05E+00	1.26E+00	1.58E+00	2.17E+00	2.55E+00	3.35E+00	4.02E+00	5.04E+00	6.88E+00	8.21E+00	9.59E+00	9.60E+00
5.0E-02	3.12E-02	1.43E-01	1.99E-01	3.15E-01	5.75E-01	7.29E-01	1.05E+00	1.26E+00	1.58E+00	2.17E+00	2.55E+00	3.35E+00	4.02E+00	5.04E+00	6.86E+00	8.19E+00	9.58E+00	9.58E+00
1.0E-01	3.12E-02	1.43E-01	1.99E-01	3.15E-01	5.73E-01	7.27E-01	1.04E+00	1.26E+00	1.58E+00	2.17E+00	2.55E+00	3.34E+00	4.01E+00	5.03E+00	6.81E+00	8.13E+00	9.52E+00	9.52E+00
1.5E-01	3.12E-02	1.43E-01	1.99E-01	3.15E-01	5.73E-01	7.27E-01	1.04E+00	1.26E+00	1.58E+00	2.16E+00	2.55E+00	3.34E+00	4.01E+00	5.03E+00	6.72E+00	8.04E+00	9.42E+00	9.43E+00
2.0E-01	3.12E-02	1.43E-01	1.99E-01	3.15E-01	5.73E-01	7.27E-01	1.04E+00	1.26E+00	1.58E+00	2.16E+00	2.54E+00	3.33E+00	4.01E+00	5.03E+00	6.61E+00	7.92E+00	9.29E+00	9.29E+00
3.0E-01	3.12E-02	1.43E-01	1.99E-01	3.15E-01	5.73E-01	7.27E-01	1.04E+00	1.26E+00	1.58E+00	2.15E+00	2.53E+00	3.32E+00	3.99E+00	5.01E+00	6.33E+00	7.58E+00	8.88E+00	8.88E+00
4.0E-01	3.12E-02	1.43E-01	1.98E-01	3.15E-01	5.71E-01	7.25E-01	1.04E+00	1.25E+00	1.58E+00	2.13E+00	2.51E+00	3.30E+00	3.97E+00	4.99E+00	6.02E+00	7.16E+00	8.32E+00	8.32E+00
5.0E-01	3.12E-02	1.43E-01	1.98E-01	3.15E-01	5.67E-01	7.23E-01	1.04E+00	1.25E+00	1.57E+00	2.11E+00	2.49E+00	3.28E+00	3.95E+00	4.97E+00	5.72E+00	6.69E+00	7.67E+00	7.67E+00
6.0E-01	3.12E-02	1.43E-01	1.98E-01	3.15E-01	5.67E-01	7.20E-01	1.04E+00	1.25E+00	1.57E+00	2.08E+00	2.46E+00	3.24E+00	3.91E+00	4.93E+00	5.45E+00	6.25E+00	7.03E+00	7.03E+00
7.0E-01	3.12E-02	1.42E-01	1.98E-01	3.14E-01	5.64E-01	7.18E-01	1.04E+00	1.25E+00	1.57E+00	2.05E+00	2.43E+00	3.21E+00	3.88E+00	4.90E+00	5.24E+00	5.86E+00	6.45E+00	6.44E+00
8.0E-01	3.12E-02	1.42E-01	1.98E-01	3.14E-01	5.60E-01	7.14E-01	1.03E+00	1.24E+00	1.57E+00	2.01E+00	2.39E+00	3.16E+00	3.83E+00	4.84E+00	5.07E+00	5.52E+00	5.95E+00	5.95E+00
1.0E+00	3.12E-02	1.42E-01	1.97E-01	3.14E-01	5.54E-01	7.07E-01	1.02E+00	1.24E+00	1.56E+00	1.94E+00	2.30E+00	3.05E+00	3.71E+00	4.71E+00	4.83E+00	5.05E+00	5.25E+00	5.25E+00
1.2E+00	3.12E-02	1.41E-01	1.97E-01	3.13E-01	5.45E-01	6.98E-01	1.01E+00	1.23E+00	1.55E+00	1.87E+00	2.21E+00	2.92E+00	3.57E+00	4.55E+00	4.63E+00	4.74E+00	4.82E+00	4.82E+00
1.4E+00	3.12E-02	1.40E-01	1.96E-01	3.12E-01	5.34E-01	6.87E-01	1.00E+00	1.22E+00	1.54E+00	1.79E+00	2.12E+00	2.77E+00	3.40E+00	4.35E+00	4.43E+00	4.48E+00	4.52E+00	4.52E+00
1.6E+00	3.12E-02	1.39E-01	1.95E-01	3.11E-01	5.23E-01	6.76E-01	9.90E-01	1.20E+00	1.52E+00	1.73E+00	2.03E+00	2.62E+00	3.21E+00	4.11E+00	4.19E+00	4.22E+00	4.24E+00	4.25E+00
1.8E+00	3.10E-02	1.38E-01	1.94E-01	3.10E-01	5.10E-01	6.62E-01	9.74E-01	1.19E+00	1.51E+00	1.67E+00	1.93E+00	2.46E+00	3.01E+00	3.85E+00	3.92E+00	3.94E+00	3.97E+00	3.97E+00
2.0E+00	3.10E-02	1.37E-01	1.93E-01	3.09E-01	4.98E-01	6.49E-01	9.58E-01	1.17E+00	1.49E+00	1.61E+00	1.85E+00	2.31E+00	2.81E+00	3.58E+00	3.63E+00	3.66E+00	3.68E+00	3.63E+00
2.4E+00	3.10E-02	1.35E-01	1.91E-01	3.07E-01	4.72E-01	6.19E-01	9.21E-01	1.13E+00	1.45E+00	1.53E+00	1.70E+00	2.02E+00	2.42E+00	3.03E+00	3.06E+00	3.08E+00	3.11E+00	3.11E+00
3.0E+00	3.10E-02	1.33E-01	1.89E-01	3.04E-01	4.46E-01	5.79E-01	8.66E-01	1.07E+00	1.38E+00	1.42E+00	1.52E+00	1.69E+00	1.95E+00	2.33E+00	2.36E+00	2.37E+00	2.37E+00	2.37E+00
4.0E+00	3.06E-02	1.22E-01	1.77E-01	2.93E-01	3.70E-01	4.91E-01	7.32E-01	9.35E-01	1.24E+00	1.29E+00	1.32E+00	1.37E+00	1.47E+00	1.62E+00	1.62E+00	1.63E+00	1.63E+00	1.63E+00
5.0E+00	3.04E-02	1.12E-01	1.67E-01	2.81E-01	3.24E-01	4.19E-01	6.07E-01	7.96E-01	1.08E+00	1.12E+00	1.14E+00	1.17E+00	1.21E+00	1.26E+00	1.26E+00	1.26E+00	1.27E+00	1.27E+00
6.0E+00	3.00E-02	1.01E-01	1.55E-01	2.67E-01	2.93E-01	3.63E-01	4.95E-01	6.65E-01	9.22E-01	9.42E-01	9.60E-01	9.96E-01	1.01E+00	1.03E+00	1.04E+00	1.04E+00	1.04E+00	1.04E+00
7.0E+00	2.96E-02	9.06E-02	1.43E-01	2.52E-01	2.71E-01	3.18E-01	4.06E-01	5.52E-01	7.72E-01	7.82E-01	7.97E-01	8.27E-01	8.39E-01	8.57E-01	8.59E-01	8.60E-01	8.61E-01	8.62E-01
8.0E+00	2.92E-02	8.02E-02	1.31E-01	2.36E-01	2.54E-01	2.84E-01	3.39E-01	4.60E-01	6.41E-01	6.47E-01	6.58E-01	6.79E-01	6.91E-01	7.09E-01	7.10E-01	7.11E-01	7.12E-01	7.12E-01
1.0E+01	2.80E-02	6.20E-02	1.08E-01	2.04E-01	2.21E-01	2.33E-01	2.54E-01	3.30E-01	4.44E-01	4.47E-01	4.52E-01	4.60E-01	4.70E-01	4.85E-01	4.85E-01	4.86E-01	4.86E-01	4.90E-01
1.5E+01	2.40E-02	3.36E-02	6.56E-02	1.26E-01	1.33E-01	1.38E-01	1.49E-01	1.69E-01	1.98E-01	2.00E-01	2.01E-01	2.03E-01	2.06E-01	2.11E-01	2.11E-01	2.11E-01	2.11E-01	2.10E-01
2.0E+01	2.00E-02	2.34E-02	4.18E-02	7.62E-02	7.78E-02	8.20E-02	9.04E-02	9.56E-02	1.03E-01	1.03E-01	1.04E-01	1.06E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01	1.10E-01
3.0E+01	1.38E-02	1.64E-02	2.16E-02	3.04E-02	3.09E-02	3.23E-02	3.47E-02	3.51E-02	3.57E-02	3.58E-02	3.61E-02	3.65E-02	3.66E-02	3.67E-02	3.67E-02	3.67E-02	3.68E-02	3.70E-02
4.0E+01	8.40E-03	1.03E-02	1.18E-02	1.41E-02	1.45E-02	1.49E-02	1.56E-02	1.56E-02	1.57E-02	1.58E-02	1.58E-02	1.60E-02	1.60E-02	1.60E-02	1.60E-02	1.60E-02	1.60E-02	1.60E-02
6.0E+01	3.00E-03	3.62E-03	3.79E-03	4.00E-03	4.16E-03	4.20E-03	4.25E-03	4.26E-03	4.26E-03	4.26E-03	4.27E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.28E-03	4.30E-03
1.0E+02	4.60E-04	5.36E-04	5.44E-04	5.52E-04	5.68E-04	5.70E-04	5.72E-04	5.72E-04	5.72E-04	5.75E-04	5.75E-04	5.76E-04	5.76E-04	5.76E-04	5.76E-04	5.76E-04	5.76E-04	5.80E-04
E[keV]:	3.18E+01	4.94E+00	4.61E+00	4.34E+00	1.01E+00	8.70E-01	8.19E-01	5.83E-01	5.73E-01	1.69E-01	1.10E-01	1.10E-01	4.20E-02	4.00E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																		
0.0E+00	4.56E+00	5.58E+00	6.25E+00	7.42E+00	8.01E+00	8.34E+00	8.55E+00	8.87E+00	9.02E+00	9.28E+00	9.40E+00	9.45E+00	9.56E+00	9.59E+00	9.60E+00			
5.0E-02	4.54E+00	5.56E+00	6.23E+00	7.40E+00	8.00E+00	8.32E+00	8.53E+00	8.85E+00	9.00E+00	9.26E+00	9.38E+00	9.43E+00	9.54E+00	9.58E+00	9.58E+00			
1.0E-01	4.49E+00	5.51E+00	6.18E+00	7.35E+00	7.94E+00	8.26E+00	8.48E+00	8.79E+00	8.95E+00	9.21E+00	9.32E+00	9.38E+00	9.49E+00	9.52E+00	9.52E+00			
1.5E-01	4.39E+00	5.41E+00	6.09E+00	7.26E+00	7.85E+00	8.17E+00	8.38E+00	8.70E+00	8.85E+00	9.11E+00	9.23E+00	9.28E+00	9.39E+00	9.42E+00	9.43E+00			
2.0E-01	4.26E+00	5.28E+00	5.95E+00	7.13E+00	7.71E+00	8.03E+00	8.24E+00	8.56E+00	8.71E+00	8.97E+00	9.09E+00	9.14E+00	9.25E+00	9.29E+00	9.29E+00			
3.0E-01	3.86E+00	4.88E+00	5.56E+00	6.73E+00	7.30E+00	7.62E+00	7.83E+00	8.15E+00	8.31E+00	8.56E+00	8.68E+00	8.74E+00	8.85E+00	8.88E+00	8.88E+00			
4.0E-01	3.32E+00	4.34E+00	5.02E+00	6.19E+00	6.74E+00	7.06E+00	7.28E+00	7.59E+00	7.75E+00	8.00E+00	8.12E+00	8.18E+00	8.29E+00	8.32E+00	8.32E+00			
5.0E-01	2.71E+00	3.73E+00	4.40E+00	5.57E+00	6.10E+00	6.42E+00	6.63E+00	6.95E+00	7.11E+00	7.36E+00	7.48E+00	7.53E+00	7.64E+00	7.67E+00	7.67E+00			
6.0E-01	2.09E+00	3.11E+00	3.78E+00	4.95E+00	5.45E+00	5.78E+00	5.99E+00	6.31E+00	6.46E+00	6.71E+00	6.83E+00	6.88E+00	6.99E+00	7.03E+00	7.03E+00			
7.0E-01	1.55E+00	2.57E+00	3.24E+00	4.40E+00	4.88E+00	5.20E+00	5.41E+00	5.73E+00	5.88E+00	6.13E+00	6.25E+00	6.30E+00	6.41E+00	6.45E+00	6.44E+00			
8.0E-01	1.11E+00	2.12E+00	2.79E+00	3.93E+00	4.36E+00	4.70E+00	4.92E+00	5.23E+00	5.39E+00	5.63E+00	5.75E+00	5.81E+00	5.92E+00	5.95E+00	5.95E+00			
1.0E+00	5.38E-01	1.54E+00	2.20E+00	3.31E+00	3.69E+00	4.02E+00	4.23E+00	4.54E+00	4.70E+00	4.94E+00	5.05E+00	5.11E+00	5.22E+00	5.25E+00	5.25E+00			
1.2E+00	2.74E-01	1.25E+00	1.90E+00	2.95E+00	3.27E+00	3.60E+00	3.81E+00	4.12E+00	4.28E+00	4.51E+00	4.63E+00	4.68E+00	4.79E+00	4.82E+00	4.82E+00			
1.4E+00	1.72E-01	1.12E+00	1.74E+00	2.72E+00	2.98E+00	3.30E+00	3.52E+00	3.83E+00	3.98E+00	4.21E+00	4.32E+00	4.38E+00	4.49E+00	4.52E+00	4.52E+00			
1.6E+00	1.36E-01	1.03E+00	1.62E+00	2.52E+00	2.72E+00	3.04E+00	3.25E+00	3.57E+00	3.72E+00	3.93E+00	4.05E+00	4.10E+00	4.21E+00	4.24E+00	4.25E+00			
1.8E+00	1.20E-01	9.54E-01	1.51E+00	2.30E+00	2.46E+00	2.78E+00	2.99E+00	3.30E+00	3.45E+00	3.67E+00	3.83E+00	3.93E+00	3.97E+00	3.97E+00	3.97E+00			
2.0E+00	1.07E-01	8.69E-01	1.38E+00	2.07E+00	2.19E+00	2.51E+00	2.73E+00	3.03E+00	3.19E+00	3.37E+00	3.49E+00	3.55E+00	3.65E+00	3.68E+00	3.63E+00			
2.4E+00	7.76E-02	6.84E-01	1.09E+00	1.58E+00	1.65E+00	1.97E+00	2.18E+00	2.49E+00	2.63E+00	2.80E+00	2.92E+00	2.97E+00	3.07E+00	3.11E+00	3.11E+00			
3.0E+00	3.91E-02	4.23E-01	6.82E-01	9.39E-01	9.88E-01	1.31E+00	1.52E+00	1.80E+00	1.94E+00	2.07E+00	2.19E+00	2.24E+00	2.34E+00	2.37E+00	2.37E+00			
4.0E+00	1.32E-02	1.57E-01	2.57E-01	3.40E-01	3.86E-01	6.93E-01	8.96E-01	1.14E+00	1.26E+00	1.34E+00	1.45E+00	1.51E+00	1.60E+00	1.63E+00	1.63E+00			
5.0E+00	7.99E-03	5.70E-02	9.11E-02	1.46E-01	1.82E-01	4.69E-01	6.59E-01	8.46E-01	9.41E-01	9.85E-01	1.10E+00	1.15E+00	1.23E+00	1.27E+00	1.27E+00			
6.0E+00	5.84E-03	2.83E-02	4.36E-02	9.73E-02	1.18E-01	3.74E-01	5.44E-01	6.77E-01	7.46E-01	7.72E-01	8.84E-01	9.38E-01	1.01E+00	1.04E+00	1.04E+00			
7.0E+00	4.00E-03	2.21E-02	3.42E-02	7.98E-02	8.98E-02	3.09E-01	4.56E-01	5.43E-01	5.90E-01	6.10E-01	7.18E-01	7.71E-01	8.32E-01	8.61E-01	8.62E-01			
8.0E+00	2.59E-03	2.05E-02	3.24E-02	6.52E-02	7.04E-02	2.52E-01	3.73E-01	4.28E-01	4.58E-01	4.76E-01	5.81E-01	6.32E-01	6.83E-01	7.12E-01	7.12E-01			
1.0E+01	1.16E-03	1.62E-02	2.62E-02	3.88E-02	4.24E-02	1.56E-01	2.32E-01	2.53E-01	2.65E-01	2.82E-01	3.78E-01	4.24E-01	4.58E-01	4.86E-01	4.90E-01			
1.5E+01	3.54E-04	5.09E-03	8.37E-03	1.10E-02	1.30E-02	4.24E-02	6.24E-02	7.32E-02	7.82E-02	8.54E-02	1.45E-01	1.77E-01	1.87E-01	2.11E-01	2.10E-01			
2.0E+01	1.66E-04	1.37E-03	2.21E-03	4.53E-03	4.95E-03	1.21E-02	1.73E-02	2.57E-02	2.99E-02	3.15E-02	6.59E-02	8.43E-02	8.77E-02	1.08E-01	1.10E-01			
3.0E+01	5.18E-05	1.48E-04	2.16E-04	9.56E-04	1.06E-03	1.62E-03	2.02E-03	4.46E-03	5.84E-03	6.36E-03	1.52E-02	2.04E-02	2.30E-02	3.68E-02	3.70E-02			
4.0E+01	1.98E-05	3.06E-05	3.90E-05	2.33E-04	3.17E-04	3.83E-04	4.35E-04	1.08E-03	1.45E-03	1.88E-03	4.19E-03	5.68E-03	7.60E-03	1.60E-02	1.60E-02			
6.0E+01	4.04E-06	4.42E-06	4.75E-06	2.36E-05	2.64E-05	2.88E-05	3.08E-05	8.68E-05	1.29E-04	2.63E-04	4.91E-04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10-2
0.0
52Te
Σi Ji(Q)
Q

Z=53

Compton profiles for the single orbitals and binding energies

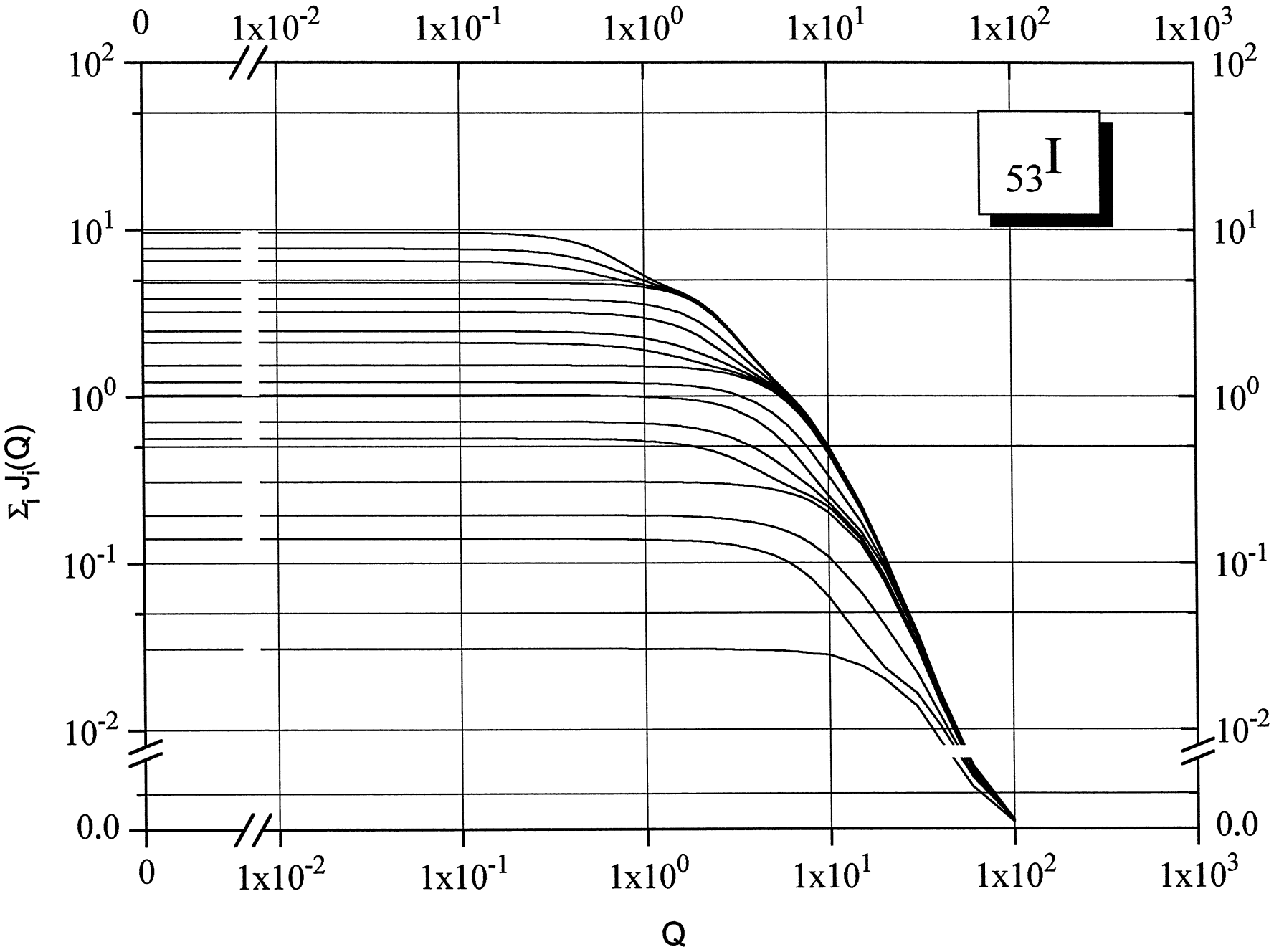
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(3)	Total
0.0E+00	1.53E-02	5.47E-02	2.72E-02	2.85E-02	1.26E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.85E-01	1.84E-01	1.90E-01	1.59E-01	1.61E-01	8.53E-01	6.08E-01	6.37E-01	9.67E+00
5.0E-02	1.53E-02	5.47E-02	2.72E-02	2.85E-02	1.26E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.84E-01	1.84E-01	1.90E-01	1.59E-01	1.61E-01	8.46E-01	6.08E-01	6.37E-01	9.66E+00
1.0E-01	1.53E-02	5.47E-02	2.72E-02	2.85E-02	1.26E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.84E-01	1.84E-01	1.90E-01	1.59E-01	1.61E-01	8.26E-01	6.08E-01	6.37E-01	9.61E+00
1.5E-01	1.53E-02	5.47E-02	2.72E-02	2.85E-02	1.26E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.82E-01	1.84E-01	1.90E-01	1.59E-01	1.61E-01	7.92E-01	6.06E-01	6.35E-01	9.53E+00
2.0E-01	1.53E-02	5.47E-02	2.72E-02	2.85E-02	1.26E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.80E-01	1.84E-01	1.90E-01	1.59E-01	1.61E-01	7.48E-01	6.02E-01	6.30E-01	9.42E+00
3.0E-01	1.53E-02	5.46E-02	2.72E-02	2.85E-02	1.25E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.75E-01	1.83E-01	1.90E-01	1.59E-01	1.61E-01	6.37E-01	5.82E-01	6.05E-01	9.07E+00
4.0E-01	1.53E-02	5.46E-02	2.72E-02	2.85E-02	1.25E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.67E-01	1.83E-01	1.90E-01	1.59E-01	1.61E-01	5.10E-01	5.41E-01	5.56E-01	8.57E+00
5.0E-01	1.53E-02	5.45E-02	2.72E-02	2.85E-02	1.24E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.57E-01	1.83E-01	1.89E-01	1.59E-01	1.61E-01	3.87E-01	4.79E-01	4.85E-01	7.96E+00
6.0E-01	1.53E-02	5.44E-02	2.72E-02	2.85E-02	1.23E-01	7.48E-02	7.74E-02	5.15E-02	5.21E-02	2.46E-01	1.82E-01	1.88E-01	1.59E-01	1.61E-01	2.79E-01	4.05E-01	4.01E-01	7.31E+00
7.0E-01	1.53E-02	5.44E-02	2.72E-02	2.85E-02	1.22E-01	7.48E-02	7.73E-02	5.15E-02	5.21E-02	2.33E-01	1.81E-01	1.87E-01	1.59E-01	1.61E-01	1.94E-01	3.27E-01	3.17E-01	6.70E+00
8.0E-01	1.53E-02	5.43E-02	2.72E-02	2.85E-02	1.20E-01	7.48E-02	7.73E-02	5.15E-02	5.21E-02	2.20E-01	1.80E-01	1.86E-01	1.59E-01	1.60E-01	1.31E-01	2.54E-01	2.39E-01	6.15E+00
1.0E+00	1.52E-02	5.40E-02	2.72E-02	2.85E-02	1.17E-01	7.47E-02	7.72E-02	5.15E-02	5.21E-02	1.90E-01	1.75E-01	1.80E-01	1.57E-01	1.59E-01	6.45E-02	1.38E-01	1.24E-01	5.33E+00
1.2E+00	1.52E-02	5.37E-02	2.72E-02	2.85E-02	1.13E-01	7.46E-02	7.71E-02	5.16E-02	5.21E-02	1.60E-01	1.68E-01	1.72E-01	1.55E-01	1.56E-01	4.41E-02	6.83E-02	5.84E-02	4.81E+00
1.4E+00	1.52E-02	5.34E-02	2.72E-02	2.85E-02	1.09E-01	7.44E-02	7.69E-02	5.15E-02	5.21E-02	1.31E-01	1.59E-01	1.61E-01	1.50E-01	1.52E-01	4.13E-02	3.33E-02	2.81E-02	4.47E+00
1.6E+00	1.52E-02	5.30E-02	2.72E-02	2.85E-02	1.04E-01	7.42E-02	7.66E-02	5.15E-02	5.21E-02	1.05E-01	1.47E-01	1.48E-01	1.44E-01	1.45E-01	4.09E-02	1.87E-02	1.67E-02	4.20E+00
1.8E+00	1.52E-02	5.26E-02	2.72E-02	2.85E-02	9.89E-02	7.38E-02	7.61E-02	5.15E-02	5.21E-02	8.24E-02	1.33E-01	1.33E-01	1.36E-01	1.37E-01	3.81E-02	1.39E-02	1.35E-02	3.95E+00
2.0E+00	1.52E-02	5.21E-02	2.71E-02	2.85E-02	9.34E-02	7.33E-02	7.56E-02	5.15E-02	5.21E-02	6.40E-02	1.18E-01	1.17E-01	1.26E-01	1.27E-01	3.27E-02	1.30E-02	1.31E-02	3.69E+00
2.4E+00	1.52E-02	5.10E-02	2.71E-02	2.85E-02	8.21E-02	7.19E-02	7.39E-02	5.14E-02	5.20E-02	3.94E-02	8.79E-02	8.46E-02	1.04E-01	1.04E-01	1.99E-02	1.26E-02	1.24E-02	3.16E+00
3.0E+00	1.51E-02	4.90E-02	2.71E-02	2.84E-02	6.49E-02	6.85E-02	7.01E-02	5.11E-02	5.16E-02	2.51E-02	4.93E-02	4.56E-02	6.99E-02	6.90E-02	7.25E-03	9.02E-03	8.23E-03	2.44E+00
4.0E+00	1.50E-02	4.50E-02	2.70E-02	2.83E-02	4.00E-02	5.97E-02	6.01E-02	4.96E-02	5.01E-02	2.31E-02	1.63E-02	1.49E-02	2.89E-02	2.79E-02	2.98E-03	2.86E-03	2.37E-03	1.67E+00
5.0E+00	1.49E-02	4.05E-02	2.67E-02	2.80E-02	2.29E-02	4.80E-02	4.73E-02	4.67E-02	4.70E-02	1.88E-02	9.19E-03	9.32E-03	1.03E-02	9.87E-03	2.77E-03	9.58E-04	8.72E-04	1.28E+00
6.0E+00	1.47E-02	3.56E-02	2.63E-02	2.75E-02	1.37E-02	3.56E-02	3.43E-02	4.23E-02	4.24E-02	1.14E-02	8.85E-03	9.10E-03	4.38E-03	4.25E-03	1.86E-03	7.64E-04	7.67E-04	1.05E+00
7.0E+00	1.45E-02	3.06E-02	2.57E-02	2.68E-02	9.83E-03	2.46E-02	2.31E-02	3.68E-02	3.68E-02	5.76E-03	8.03E-03	7.93E-03	3.13E-03	3.14E-03	9.58E-04	7.34E-04	7.11E-04	8.74E-01
8.0E+00	1.43E-02	2.58E-02	2.50E-02	2.59E-02	8.83E-03	1.61E-02	1.46E-02	3.09E-02	3.08E-02	2.95E-03	6.19E-03	5.83E-03	3.04E-03	3.07E-03	4.54E-04	5.97E-04	5.48E-04	7.26E-01
1.0E+01	1.40E-02	1.70E-02	2.30E-02	2.30E-02	8.60E-03	6.30E-03	5.70E-03	2.00E-02	2.00E-02	1.80E-03	2.60E-03	2.30E-03	2.70E-03	2.70E-03	2.20E-04	2.60E-04	2.20E-04	5.00E-01
1.5E+01	1.20E-02	5.10E-03	1.60E-02	1.60E-02	3.90E-03	2.50E-03	2.60E-03	5.50E-03	5.30E-03	1.10E-03	4.40E-04	4.60E-04	9.50E-04	9.10E-04	1.40E-04	3.90E-05	3.90E-05	2.20E-01
2.0E+01	1.00E-02	1.70E-03	9.50E-03	8.90E-03	8.90E-04	2.10E-03	2.20E-03	1.40E-03	1.30E-03	2.40E-04	4.00E-04	4.10E-04	2.50E-04	2.40E-04	3.10E-05	3.50E-05	3.50E-05	1.10E-01
3.0E+01	6.90E-03	1.30E-03	2.80E-03	2.40E-03	2.60E-04	7.50E-04	6.60E-04	1.20E-04	1.10E-04	5.30E-05	1.50E-04	1.30E-04	2.10E-05	1.90E-05	6.30E-06	1.30E-05	1.10E-05	3.90E-02
4.0E+01	4.30E-03	9.80E-04	8.10E-04	6.40E-04	2.10E-04	2.10E-04	1.70E-04	1.50E-05	1.30E-05	4.40E-05	4.30E-05	3.40E-05	2.70E-06	2.30E-06	5.30E-06	3.80E-06	2.90E-06	1.70E-02
6.0E+01	1.50E-03	3.30E-04	9.80E-05	6.40E-05	7.20E-05	2.40E-05	1.60E-05	6.10E-07	4.80E-07	1.50E-05	4.70E-06	3.20E-06	1.00E-07	8.20E-08	1.80E-06	4.20E-07	2.70E-07	4.50E-03
1.0E+02	2.50E-04	4.10E-05	4.90E-06	2.30E-06	8.70E-06	1.10E-06	5.40E-07	8.50E-09	5.30E-09	1.80E-06	2.20E-07	1.00E-07	1.50E-09	9.30E-10	2.10E-07	1.90E-08	8.90E-09	6.20E-04
E[keV]:	3.32E+01	5.19E+00	4.85E+00	4.56E+00	1.07E+00	9.31E-01	8.75E-01	6.31E-01	6.20E-01	1.86E-01	1.23E-01	1.23E-01	5.00E-02	5.00E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(3)	Total
0.0E+00	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.60E-01	7.10E-01	1.02E+00	1.23E+00	1.54E+00	2.11E+00	2.48E+00	3.24E+00	3.87E+00	4.84E+00	6.54E+00	7.76E+00	9.67E+00	9.67E+00
5.0E-02	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.60E-01	7.10E-01	1.02E+00	1.23E+00	1.54E+00	2.11E+00	2.47E+00	3.23E+00	3.87E+00	4.84E+00	6.53E+00	7.74E+00	9.66E+00	9.66E+00
1.0E-01	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.60E-01	7.10E-01	1.02E+00	1.23E+00	1.54E+00	2.11E+00	2.47E+00	3.23E+00	3.87E+00	4.84E+00	6.49E+00	7.70E+00	9.62E+00	9.61E+00
1.5E-01	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.60E-01	7.10E-01	1.02E+00	1.23E+00	1.54E+00	2.10E+00	2.47E+00	3.23E+00	3.87E+00	4.83E+00	6.42E+00	7.63E+00	9.53E+00	9.53E+00
2.0E-01	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.60E-01	7.10E-01	1.02E+00	1.23E+00	1.54E+00	2.10E+00	2.47E+00	3.23E+00	3.86E+00	4.83E+00	6.32E+00	7.53E+00	9.42E+00	9.42E+00
3.0E-01	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.58E-01	7.08E-01	1.02E+00	1.22E+00	1.54E+00	2.09E+00	2.45E+00	3.21E+00	3.85E+00	4.81E+00	6.09E+00	7.25E+00	9.07E+00	9.07E+00
4.0E-01	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.58E-01	7.08E-01	1.02E+00	1.22E+00	1.54E+00	2.07E+00	2.44E+00	3.20E+00	3.83E+00	4.80E+00	5.82E+00	6.90E+00	8.57E+00	8.57E+00
5.0E-01	3.06E-02	1.40E-01	1.94E-01	3.08E-01	5.56E-01	7.06E-01	1.02E+00	1.22E+00	1.53E+00	2.05E+00	2.41E+00	3.17E+00	3.81E+00	4.77E+00	5.55E+00	6.50E+00	7.96E+00	7.96E+00
6.0E-01	3.06E-02	1.39E-01	1.94E-01	3.08E-01	5.54E-01	7.03E-01	1.01E+00	1.22E+00	1.53E+00	2.02E+00	2.39E+00	3.14E+00	3.78E+00	4.74E+00	5.30E+00	6.11E+00	7.31E+00	7.31E+00
7.0E-01	3.06E-02	1.39E-01	1.94E-01	3.08E-01	5.52E-01	7.01E-01	1.01E+00	1.22E+00	1.53E+00	2.00E+00	2.36E+00	3.11E+00	3.74E+00	4.71E+00	5.10E+00	5.75E+00	6.70E+00	6.70E+00
8.0E-01	3.06E-02	1.39E-01	1.94E-01	3.08E-01	5.48E-01	6.97E-01	1.01E+00	1.21E+00	1.53E+00	1.97E+00	2.33E+00	3.07E+00	3.71E+00	4.67E+00	4.93E+00	5.44E+00	6.15E+00	6.15E+00
1.0E+00	3.04E-02	1.38E-01	1.93E-01	3.07E-01	5.41E-01	6.90E-01	9.99E-01	1.20E+00	1.52E+00	1.90E+00	2.25E+00	2.97E+00	3.60E+00	4.55E+00	4.68E+00	4.95E+00	5.33E+00	5.33E+00
1.2E+00	3.04E-02	1.38E-01	1.92E-01	3.06E-01	5.32E-01	6.81E-01	9.90E-01	1.20E+00	1.51E+00	1.83E+00	2.16E+00	2.85E+00	3.47E+00	4.41E+00	4.50E+00	4.63E+00	4.81E+00	4.81E+00
1.4E+00	3.04E-02	1.37E-01	1.92E-01	3.06E-01	5.24E-01	6.72E-01	9.80E-01	1.19E+00	1.50E+00	1.76E+00	2.08E+00	2.72E+00	3.32E+00	4.23E+00	4.32E+00	4.38E+00	4.47E+00	4.47E+00
1.6E+00	3.04E-02	1.36E-01	1.91E-01	3.05E-01	5.13E-01	6.61E-01	9.68E-01	1.17E+00	1.49E+00	1.70E+00	1.99E+00	2.58E+00	3.16E+00	4.03E+00	4.11E+00	4.15E+00	4.20E+00	4.20E+00
1.8E+00	3.04E-02	1.36E-01	1.91E-01	3.04E-01	5.02E-01	6.49E-01	9.54E-01	1.16E+00	1.47E+00	1.64E+00	1.90E+00	2.48E+00	2.98E+00	3.80E+00	3.88E+00	3.91E+00	3.95E+00	3.95E+00
2.0E+00	3.04E-02	1.35E-01	1.89E-01	3.03E-01	4.90E-01	6.36E-01	9.39E-01	1.14E+00	1.46E+00	1.59E+00	1.82E+00	2.29E+00	2.79E+00	3.56E+00	3.62E+00	3.65E+00	3.69E+00	3.69E+00
2.4E+00	3.04E-02	1.32E-01	1.87E-01	3.01E-01	4.65E-01	6.09E-01	9.04E-01	1.11E+00	1.42E+00	1.50E+00	1.68E+00	2.01E+00	2.43E+00	3.05E+00	3.09E+00	3.12E+00	3.16E+00	3.16E+00
3.0E+00	3.02E-02	1.28E-01	1.82E-01	2.96E-01	4.26E-01	5.63E-01	8.43E-01	1.05E+00	1.36E+00	1.41E+00	1.51E+00	1.69E+00	1.97E+00	2.38E+00	2.40E+00	2.41E+00	2.44E+00	2.44E+00
4.0E+00	3.00E-02	1.20E-01	1.74E-01	2.87E-01	3.67E-01	4.87E-01	7.27E-01	9.25E-01	1.23E+00	1.27E+00	1.30E+00	1.36E+00	1.48E+00	1.65E+00	1.65E+00	1.66E+00	1.67E+00	1.67E+00
5.0E+00	2.98E-02	1.11E-01	1.64E-01	2.76E-01	3.22E-01	4.18E-01	6.07E-01	7.94E-01	1.08E+00	1.11E+00	1.13E+00	1.17E+00	1.21E+00	1.27E+00	1.28E+00	1.28E+00	1.28E+00	1.28E+00
6.0E+00	2.94E-02	1.01E-01	1.53E-01	2.63E-01	2.91E-01	3.62E-01	4.99E-01	6.68E-01	9.23E-01	9.45E-01	9.63E-01	9.99E-01	1.02E+00	1.04E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00
7.0E+00	2.90E-02	9.02E-02	1.42E-01	2.49E-01	2.68E-01	3.18E-01	4.10E-01	5.57E-01	7.78E-01	7.90E-01	8.06E-01	8.37E-01	8.50E-01	8.69E-01	8.71E-01	8.72E-01	8.74E-01	8.74E-01
8.0E+00	2.86E-02	8.02E-02	1.30E-01	2.34E-01	2.51E-01	2.84E-01	3.42E-01	4.66E-01	6.50E-01	6.56E-01	6.69E-01	6.92E-01	7.04E-01	7.23E-01	7.24E-01	7.25E-01	7.26E-01	7.26E-01
1.0E+01	2.80E-02	6.20E-02	1.08E-01	2.00E-01	2.17E-01	2.30E-01	2.53E-01	3.33E-01	4.53E-01	4.56E-01	4.61E-01	4.71E-01	4.81E-01	4.98E-01	4.98E-01	4.99E-01	4.99E-01	5.00E-01
1.5E+01	2.40E-02	3.42E-02	6.62E-02	1.30E-01	1.38E-01	1.43E-01	1.53E-01	1.75E-01	2.07E-01	2.09E-01	2.10E-01	2.12E-01	2.16E-01	2.21E-01	2.22E-01	2.22E-01	2.22E-01	2.20E-01
2.0E+01	2.00E-02	2.34E-02	4.24E-02	7.80E-02	7.98E-02	8.49E-02	9.28E-02	9.84E-02	1.06E-01	1.07E-01	1.07E-01	1.09E-01	1.10E-01	1.12E-01	1.12E-01	1.12E-01	1.12E-01	1.10E-01
3.0E+01	1.38E-02	1.64E-02	2.20E-02	3.16E-02	3.21E-02	3.36E-02	3.63E-02	3.67E-02	3.74E-02	3.75E-02	3.78E-02	3.83E-02	3.84E-02	3.85E-02	3.85E-02	3.86E-02	3.86E-02	3.90E-02
4.0E+01	8.60E-03	1.06E-02	1.22E-02	1.47E-02	1.52E-02	1.56E-02	1.63E-02	1.63E-02	1.64E-02	1.65E-02	1.66E-02	1.67E-02	1.67E-02	1.67E-02	1.67E-02	1.68E-02	1.68E-02	1.70E-02
6.0E+01	3.00E-03	3.66E-03	3.86E-03	4.11E-03	4.26E-03	4.30E-03	4.37E-03	4.37E-03	4.37E-03	4.40E-03	4.41E-03	4.43E-03	4.43E-03	4.43E-03	4.43E-03	4.43E-03	4.43E-03	4.50E-03
1.0E+02	5.00E-04	5.82E-04	5.92E-04	6.01E-04	6.18E-04	6.21E-04	6.23E-04	6.23E-04	6.23E-04	6.26E-04	6.27E-04	6.27E-04	6.27E-04	6.27E-04	6.28E-04	6.28E-04	6.28E-04	6.20E-04
E[keV]:	3.32E+01	5.19E+00	4.85E+00	4.56E+00	1.07E+00	9.31E-01	8.75E-01	6.31E-01	6.20E-01	1.86E-01	1.23E-01	1.23E-01	5.00E-02	5.00E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																		
0.0E+00	4.83E+00	6.44E+00	7.56E+00	8.13E+00	8.45E+00	8.65E+00	8.96E+00	9.11E+00	9.36E+00	9.48E+00	9.53E+00	9.64E+00	9.67E+00	9.67E+00				
5.0E-02	4.82E+00	6.42E+00	7.55E+00	8.12E+00	8.43E+00	8.64E+00	8.95E+00	9.09E+00	9.35E+00	9.46E+00	9.52E+00	9.62E+00	9.66E+00	9.66E+00				
1.0E-01	4.78E+00	6.38E+00	7.51E+00	8.08E+00	8.39E+00	8.60E+00	8.91E+00	9.05E+00	9.31E+00	9.42E+00	9.48E+00	9.58E+00	9.62E+00	9.61E+00				
1.5E-01	4.70E+00	6.30E+00	7.43E+00	8.00E+00	8.31E+00	8.51E+00	8.82E+00	8.97E+00	9.22E+00	9.34E+00	9.39E+00	9.50E+00	9.53E+00	9.53E+00				
2.0E-01	4.59E+00	6.19E+00	7.32E+00	7.88E+00	8.19E+00	8.40E+00	8.71E+00	8.86E+00	9.11E+00	9.22E+00	9.28E+00	9.39E+00	9.42E+00	9.42E+00				
3.0E-01	4.25E+00	5.86E+00	6.98E+00	7.53E+00	7.84E+00	8.05E+00	8.36E+00	8.51E+00	8.76E+00	8.87E+00	8.93E+00	9.04E+00	9.07E+00	9.07E+00				
4.0E-01	3.77E+00	5.37E+00	6.50E+00	7.03E+00	7.34E+00	7.55E+00	7.86E+00	8.01E+00	8.26E+00	8.37E+00	8.43E+00	8.54E+00	8.57E+00	8.57E+00				
5.0E-01	3.19E+00	4.79E+00	5.91E+00	6.43E+00	6.74E+00	6.94E+00	7.25E+00	7.40E+00	7.65E+00	7.76E+00	7.82E+00	7.93E+00	7.96E+00	7.96E+00				
6.0E-01	2.57E+00	4.17E+00	5.29E+00	5.78E+00	6.09E+00	6.30E+00	6.61E+00	6.76E+00	7.00E+00	7.12E+00	7.17E+00	7.28E+00	7.31E+00	7.31E+00				
7.0E-01	1.99E+00	3.60E+00	4.71E+00	5.17E+00	5.48E+00	5.69E+00	6.00E+00	6.15E+00	6.39E+00	6.51E+00	6.56E+00	6.67E+00	6.70E+00	6.70E+00				
8.0E-01	1.49E+00	3.08E+00	4.19E+00	4.63E+00	4.94E+00	5.15E+00	5.45E+00	5.60E+00	5.84E+00	5.96E+00	6.01E+00	6.12E+00	6.15E+00	6.15E+00				
1.0E+00	7.77E-01	2.36E+00	3.43E+00	3.81E+00	4.12E+00	4.33E+00	4.64E+00	4.79E+00	5.02E+00	5.13E+00	5.19E+00	5.30E+00	5.33E+00	5.33E+00				
1.2E+00	4.00E-01	1.96E+00	2.98E+00	3.30E+00	3.61E+00	3.82E+00	4.13E+00	4.28E+00	4.51E+00	4.62E+00	4.67E+00	4.78E+00	4.81E+00	4.81E+00				
1.4E+00	2.33E-01	1.75E+00	2.71E+00	2.97E+00	3.28E+00	3.49E+00	3.80E+00	3.94E+00	4.16E+00	4.28E+00	4.33E+00	4.44E+00	4.47E+00	4.47E+00				
1.6E+00	1.69E-01	1.62E+00	2.50E+00	2.71E+00	3.02E+00	3.23E+00	3.54E+00	3.68E+00	3.89E+00	4.01E+00	4.06E+00	4.17E+00	4.20E+00	4.20E+00				
1.8E+00	1.45E-01	1.51E+00	2.31E+00	2.47E+00	2.79E+00	2.99E+00	3.30E+00	3.44E+00	3.64E+00	3.76E+00	3.81E+00	3.92E+00	3.95E+00	3.95E+00				
2.0E+00	1.31E-01	1.40E+00	2.10E+00	2.23E+00	2.54E+00	2.75E+00	3.05E+00	3.20E+00	3.38E+00	3.50E+00	3.55E+00	3.66E+00	3.69E+00	3.69E+00				
2.4E+00	1.02E-01	1.14E+00	1.66E+00	1.74E+00	2.05E+00	2.25E+00	2.55E+00	2.69E+00	2.86E+00	2.97E+00	3.02E+00	3.13E+00	3.16E+00	3.16E+00				
3.0E+00	5.72E-02	7.51E-01	1.03E+00	1.08E+00	1.39E+00	1.60E+00	1.88E+00	2.01E+00	2.14E+00	2.26E+00	2.31E+00	2.41E+00	2.44E+00	2.44E+00				
4.0E+00	1.88E-02	3.02E-01	3.94E-01	4.40E-01	7.41E-01	9.39E-01	1.18E+00	1.30E+00	1.38E+00	1.49E+00	1.55E+00	1.64E+00	1.67E+00	1.67E+00				
5.0E+00	1.01E-02	1.10E-01	1.66E-01	2.04E-01	4.86E-01	6.73E-01	8.62E-01	9.58E-01	1.00E+00	1.12E+00	1.17E+00	1.25E+00	1.28E+00	1.28E+00				
6.0E+00	7.55E-03	5.06E-02	1.05E-01	1.27E-01	3.82E-01	5.51E-01	6.88E-01	7.59E-01	7.87E-01	8.97E-01	9.49E-01	1.02E+00	1.05E+00	1.05E+00				
7.0E+00	5.52E-03	3.69E-02	8.47E-02	9.62E-02	3.17E-01	4.64E-01	5.57E-01	6.06E-01	6.25E-01	7.33E-01	7.84E-01	8.45E-01	8.74E-01	8.74E-01				
8.0E+00	3.75E-03	3.43E-02	7.00E-02	7.59E-02	2.61E-01	3.84E-01	4.43E-01	4.75E-01	4.93E-01	5.96E-01	6.46E-01	6.98E-01	7.26E-01	7.26E-01				
1.0E+01	1.62E-03	2.86E-02	4.30E-02	4.66E-02	1.67E-01	2.47E-01	2.69E-01	2.82E-01	2.99E-01	3.91E-01	4.37E-01	4.71E-01	4.99E-01	5.00E-01				
1.5E+01	4.75E-04	9.74E-03	1.25E-02	1.47E-02	4.65E-02	6.85E-02	7.89E-02	8.39E-02	9.17E-02	1.56E-01	1.88E-01	1.98E-01	2.22E-01	2.20E-01				
2.0E+01	2.37E-04	2.68E-03	5.12E-03	5.60E-03	1.34E-02	1.90E-02	2.78E-02	3.20E-02	3.38E-02	6.94E-02	8.84E-02	9.18E-02	1.12E-01	1.10E-01				
3.0E+01	7.16E-05	2.70E-04	1.09E-03	1.20E-03	1.86E-03	2.34E-03	4.98E-03	6.48E-03	7.00E-03	1.66E-02	2.22E-02	2.48E-02	3.86E-02	3.90E-02				
4.0E+01	2.69E-05	5.15E-05	2.74E-04	3.61E-04	4.40E-04	5.00E-04	1.18E-03	1.60E-03	2.02E-03	4.58E-03	6.20E-03	8.16E-03	1.68E-02	1.70E-02				
6.0E+01	5.25E-06	6.14E-06	2.83E-05	5.83E-05	6.12E-05	6.37E-05	1.28E-04	1.76E-04	3.20E-04	5.76E-04	7.72E-04	1.43E-03	4.43E-03	4.50E-03				
1.0E+02	4.85E-07	4.96E-07	1.34E-06	4.94E-06	4.97E-06	5.00E-06	7.16E-06	9.36E-06	2.68E-05	3.60E-05	4.58E-05	1.28E-04	6.28E-04	6.20E-04				
E[keV]:	0.00E+00	5.00E-02	1.23E-01	1.86E-01	6.20E-01	6.31


0
1x10-2
1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
53I
Σi Ji(Q)
Q

Z=54

Compton profiles for the single orbitals and binding energies

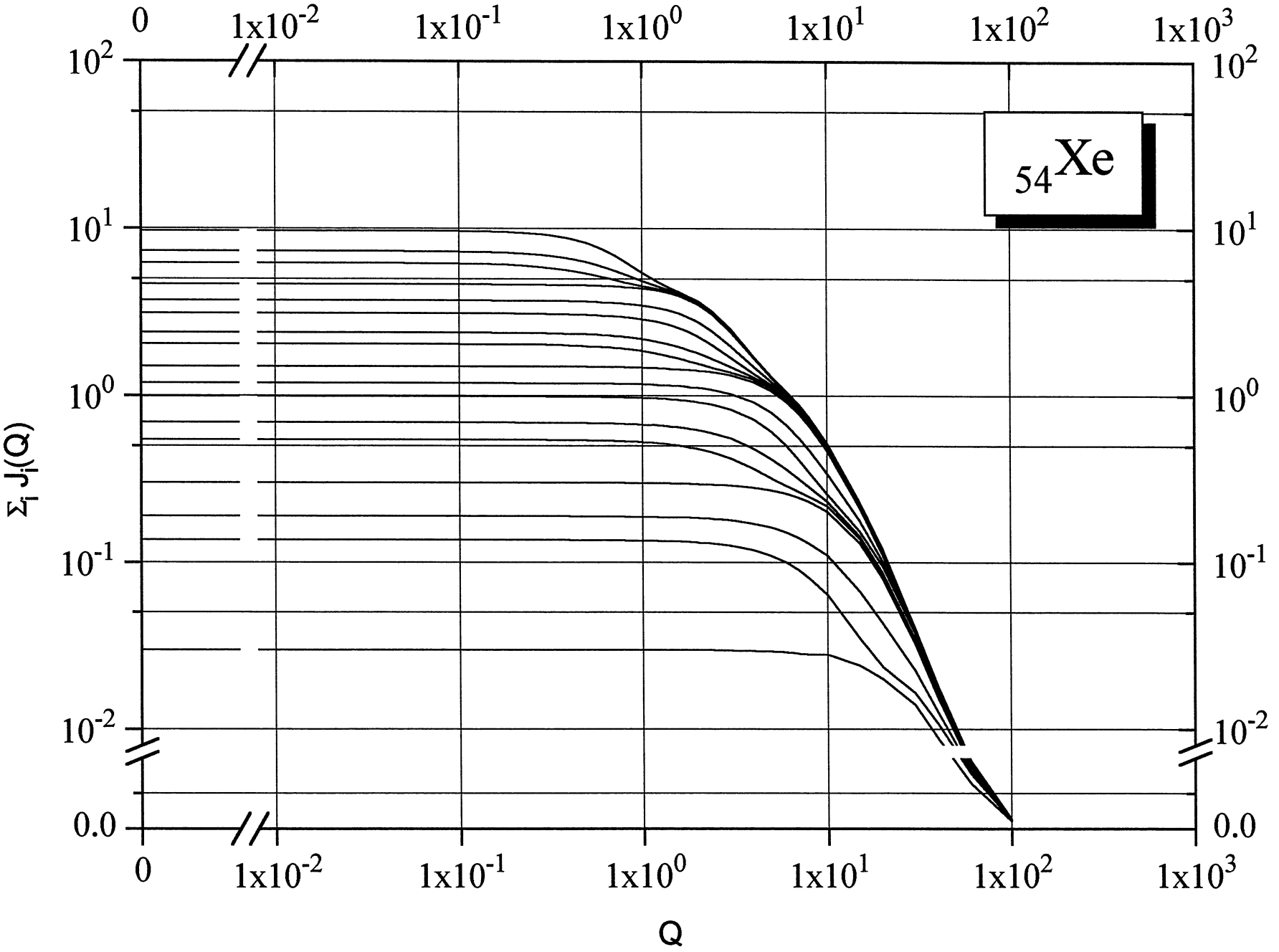
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	Total
0.0E+00	1.49E-02	5.35E-02	2.65E-02	2.79E-02	1.23E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.74E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	7.97E-01	5.62E-01	5.92E-01	9.74E+00
5.0E-02	1.49E-02	5.35E-02	2.65E-02	2.79E-02	1.23E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.74E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	7.91E-01	5.62E-01	5.92E-01	9.72E+00
1.0E-01	1.49E-02	5.35E-02	2.65E-02	2.79E-02	1.23E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.73E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	7.74E-01	5.61E-01	5.91E-01	9.69E+00
1.5E-01	1.49E-02	5.35E-02	2.65E-02	2.79E-02	1.23E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.72E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	7.47E-01	5.60E-01	5.90E-01	9.62E+00
2.0E-01	1.49E-02	5.34E-02	2.65E-02	2.79E-02	1.23E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.70E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	7.10E-01	5.58E-01	5.86E-01	9.52E+00
3.0E-01	1.49E-02	5.34E-02	2.65E-02	2.79E-02	1.22E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.65E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	6.15E-01	5.43E-01	5.68E-01	9.22E+00
4.0E-01	1.49E-02	5.34E-02	2.65E-02	2.79E-02	1.21E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.58E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	5.05E-01	5.13E-01	5.31E-01	8.77E+00
5.0E-01	1.49E-02	5.33E-02	2.65E-02	2.79E-02	1.21E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.49E-01	1.76E-01	1.82E-01	1.51E-01	1.53E-01	3.94E-01	4.66E-01	4.75E-01	8.21E+00
6.0E-01	1.49E-02	5.32E-02	2.65E-02	2.79E-02	1.20E-01	7.29E-02	7.54E-02	5.01E-02	5.07E-02	2.39E-01	1.75E-01	1.81E-01	1.51E-01	1.53E-01	2.94E-01	4.06E-01	4.05E-01	7.59E+00
7.0E-01	1.49E-02	5.32E-02	2.65E-02	2.79E-02	1.19E-01	7.28E-02	7.54E-02	5.01E-02	5.07E-02	2.28E-01	1.75E-01	1.80E-01	1.51E-01	1.53E-01	2.11E-01	3.39E-01	3.31E-01	6.96E+00
8.0E-01	1.49E-02	5.31E-02	2.65E-02	2.79E-02	1.17E-01	7.28E-02	7.54E-02	5.01E-02	5.07E-02	2.15E-01	1.73E-01	1.79E-01	1.51E-01	1.52E-01	1.48E-01	2.73E-01	2.60E-01	6.38E+00
1.0E+00	1.49E-02	5.28E-02	2.65E-02	2.79E-02	1.14E-01	7.28E-02	7.53E-02	5.01E-02	5.07E-02	1.88E-01	1.70E-01	1.74E-01	1.50E-01	1.51E-01	7.38E-02	1.60E-01	1.45E-01	5.45E+00
1.2E+00	1.49E-02	5.26E-02	2.65E-02	2.79E-02	1.11E-01	7.27E-02	7.52E-02	5.01E-02	5.07E-02	1.60E-01	1.64E-01	1.68E-01	1.48E-01	1.49E-01	4.70E-02	8.55E-02	7.37E-02	4.84E+00
1.4E+00	1.49E-02	5.23E-02	2.65E-02	2.79E-02	1.07E-01	7.25E-02	7.50E-02	5.01E-02	5.07E-02	1.33E-01	1.55E-01	1.58E-01	1.45E-01	1.46E-01	4.15E-02	4.36E-02	3.66E-02	4.44E+00
1.6E+00	1.49E-02	5.19E-02	2.65E-02	2.79E-02	1.02E-01	7.23E-02	7.47E-02	5.01E-02	5.07E-02	1.08E-01	1.45E-01	1.46E-01	1.40E-01	1.41E-01	4.12E-02	2.37E-02	2.04E-02	4.16E+00
1.8E+00	1.49E-02	5.15E-02	2.65E-02	2.79E-02	9.75E-02	7.19E-02	7.43E-02	5.01E-02	5.07E-02	8.57E-02	1.33E-01	1.33E-01	1.33E-01	1.34E-01	3.96E-02	1.60E-02	1.48E-02	3.91E+00
2.0E+00	1.49E-02	5.10E-02	2.65E-02	2.79E-02	9.24E-02	7.15E-02	7.38E-02	5.01E-02	5.07E-02	6.73E-02	1.19E-01	1.18E-01	1.25E-01	1.26E-01	3.54E-02	1.38E-02	1.36E-02	3.68E+00
2.4E+00	1.49E-02	5.00E-02	2.65E-02	2.79E-02	8.16E-02	7.02E-02	7.23E-02	5.00E-02	5.06E-02	4.18E-02	9.09E-02	8.80E-02	1.06E-01	1.06E-01	2.33E-02	1.35E-02	1.33E-02	3.19E+00
3.0E+00	1.48E-02	4.81E-02	2.65E-02	2.78E-02	6.53E-02	6.72E-02	6.89E-02	4.97E-02	5.03E-02	2.56E-02	5.32E-02	4.96E-02	7.42E-02	7.33E-02	9.11E-03	1.06E-02	9.72E-03	2.50E+00
4.0E+00	1.47E-02	4.44E-02	2.64E-02	2.77E-02	4.11E-02	5.92E-02	5.98E-02	4.85E-02	4.90E-02	2.28E-02	1.83E-02	1.66E-02	3.29E-02	3.19E-02	3.19E-03	3.76E-03	3.12E-03	1.71E+00
5.0E+00	1.46E-02	4.01E-02	2.61E-02	2.74E-02	2.40E-02	4.83E-02	4.78E-02	4.59E-02	4.63E-02	1.95E-02	9.44E-03	9.47E-03	1.24E-02	1.18E-02	3.00E-03	1.20E-03	1.04E-03	1.30E+00
6.0E+00	1.44E-02	3.54E-02	2.58E-02	2.70E-02	1.43E-02	3.65E-02	3.52E-02	4.19E-02	4.21E-02	1.25E-02	8.82E-03	9.15E-03	5.07E-03	4.88E-03	2.16E-03	8.43E-04	8.36E-04	1.06E+00
7.0E+00	1.42E-02	3.06E-02	2.53E-02	2.63E-02	1.00E-02	2.58E-02	2.42E-02	3.69E-02	3.69E-02	6.55E-03	8.26E-03	8.25E-03	3.30E-03	3.28E-03	1.17E-03	8.24E-04	8.00E-04	8.86E-01
8.0E+00	1.40E-02	2.60E-02	2.45E-02	2.55E-02	8.74E-03	1.72E-02	1.57E-02	3.14E-02	3.13E-02	3.33E-03	6.62E-03	6.31E-03	3.10E-03	3.12E-03	5.65E-04	7.01E-04	6.45E-04	7.40E-01
1.0E+01	1.40E-02	1.80E-02	2.30E-02	2.30E-02	8.50E-03	6.90E-03	6.20E-03	2.10E-02	2.10E-02	1.90E-03	3.00E-03	2.60E-03	2.90E-03	2.90E-03	2.40E-04	3.30E-04	2.80E-04	5.10E-01
1.5E+01	1.20E-02	5.40E-03	1.60E-02	1.60E-02	4.20E-03	2.40E-03	2.60E-03	6.00E-03	5.70E-03	1.20E-03	4.60E-04	4.70E-04	1.10E-03	1.00E-03	1.60E-04	4.50E-05	4.40E-05	2.30E-01
2.0E+01	1.00E-02	1.80E-03	9.70E-03	9.20E-03	1.00E-03	2.20E-03	2.20E-03	1.60E-03	1.50E-03	2.80E-04	4.10E-04	4.30E-04	3.00E-04	2.80E-04	3.90E-05	4.00E-05	4.00E-05	1.20E-01
3.0E+01	7.00E-03	1.30E-03	3.00E-03	2.50E-03	2.60E-04	8.00E-04	7.10E-04	1.40E-04	1.30E-04	5.30E-05	1.60E-04	1.50E-04	2.60E-05	2.40E-05	6.80E-06	1.60E-05	1.40E-05	4.00E-02
4.0E+01	4.40E-03	9.90E-04	8.90E-04	6.90E-04	2.20E-04	2.40E-04	1.90E-04	1.80E-05	1.50E-05	4.60E-05	4.80E-05	3.90E-05	3.30E-06	2.90E-06	5.90E-06	4.80E-06	3.60E-06	1.80E-02
6.0E+01	1.60E-03	3.40E-04	1.10E-04	7.20E-05	7.70E-05	2.70E-05	1.80E-05	7.30E-07	5.70E-07	1.60E-05	5.50E-06	3.70E-06	1.30E-07	1.00E-07	2.10E-06	5.40E-07	3.50E-07	4.80E-03
1.0E+02	2.70E-04	4.50E-05	5.60E-06	2.60E-06	9.50E-06	1.30E-06	6.20E-07	1.00E-08	6.40E-09	2.00E-06	2.60E-07	1.20E-07	1.90E-09	1.20E-09	2.60E-07	2.50E-08	1.20E-08	6.70E-04
E[keV]:	3.46E+01	5.45E+00	5.11E+00	4.79E+00	1.15E+00	1.00E+00	9.41E-01	6.89E-01	6.77E-01	2.13E-01	1.46E-01	1.46E-01	6.90E-02	6.80E-02	2.30E-02	1.30E-02	1.20E-02	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	Total
0.0E+00	2.98E-02	1.37E-01	1.90E-01	3.01E-01	5.47E-01	6.93E-01	9.95E-01	1.20E+00	1.50E+00	2.05E+00	2.40E+00	3.13E+00	3.73E+00	4.65E+00	6.24E+00	7.37E+00	9.74E+00	9.74E+00
5.0E-02	2.98E-02	1.37E-01	1.90E-01	3.01E-01	5.47E-01	6.93E-01	9.95E-01	1.20E+00	1.50E+00	2.05E+00	2.40E+00	3.13E+00	3.73E+00	4.65E+00	6.23E+00	7.36E+00	9.72E+00	9.72E+00
1.0E-01	2.98E-02	1.37E-01	1.90E-01	3.01E-01	5.47E-01	6.93E-01	9.95E-01	1.20E+00	1.50E+00	2.05E+00	2.40E+00	3.13E+00	3.73E+00	4.65E+00	6.20E+00	7.32E+00	9.68E+00	9.69E+00
1.5E-01	2.98E-02	1.37E-01	1.90E-01	3.01E-01	5.47E-01	6.93E-01	9.95E-01	1.20E+00	1.50E+00	2.04E+00	2.40E+00	3.12E+00	3.73E+00	4.65E+00	6.14E+00	7.26E+00	9.62E+00	9.62E+00
2.0E-01	2.98E-02	1.37E-01	1.90E-01	3.01E-01	5.47E-01	6.93E-01	9.95E-01	1.20E+00	1.50E+00	2.04E+00	2.39E+00	3.12E+00	3.72E+00	4.64E+00	6.06E+00	7.18E+00	9.52E+00	9.52E+00
3.0E-01	2.98E-02	1.37E-01	1.90E-01	3.01E-01	5.45E-01	6.91E-01	9.93E-01	1.19E+00	1.50E+00	2.03E+00	2.38E+00	3.11E+00	3.71E+00	4.63E+00	5.86E+00	6.95E+00	9.22E+00	9.22E+00
4.0E-01	2.98E-02	1.37E-01	1.90E-01	3.01E-01	5.43E-01	6.89E-01	9.91E-01	1.19E+00	1.50E+00	2.01E+00	2.36E+00	3.09E+00	3.70E+00	4.61E+00	5.62E+00	6.65E+00	8.77E+00	8.77E+00
5.0E-01	2.98E-02	1.36E-01	1.89E-01	3.01E-01	5.43E-01	6.89E-01	9.90E-01	1.19E+00	1.50E+00	1.99E+00	2.35E+00	3.07E+00	3.68E+00	4.60E+00	5.38E+00	6.32E+00	8.21E+00	8.21E+00
6.0E-01	2.98E-02	1.36E-01	1.89E-01	3.01E-01	5.41E-01	6.87E-01	9.88E-01	1.19E+00	1.49E+00	1.97E+00	2.32E+00	3.04E+00	3.65E+00	4.57E+00	5.15E+00	5.97E+00	7.59E+00	7.59E+00
7.0E-01	2.98E-02	1.36E-01	1.89E-01	3.01E-01	5.39E-01	6.84E-01	9.86E-01	1.19E+00	1.49E+00	1.95E+00	2.30E+00	3.02E+00	3.62E+00	4.54E+00	4.96E+00	5.64E+00	6.96E+00	6.96E+00
8.0E-01	2.98E-02	1.36E-01	1.89E-01	3.01E-01	5.35E-01	6.80E-01	9.82E-01	1.18E+00	1.49E+00	1.92E+00	2.26E+00	2.98E+00	3.58E+00	4.49E+00	4.79E+00	5.34E+00	6.38E+00	6.38E+00
1.0E+00	2.98E-02	1.35E-01	1.88E-01	3.00E-01	5.28E-01	6.74E-01	9.75E-01	1.18E+00	1.48E+00	1.86E+00	2.20E+00	2.89E+00	3.49E+00	4.40E+00	4.54E+00	4.86E+00	5.44E+00	5.45E+00
1.2E+00	2.98E-02	1.35E-01	1.88E-01	3.00E-01	5.22E-01	6.67E-01	9.68E-01	1.17E+00	1.47E+00	1.79E+00	2.12E+00	2.79E+00	3.38E+00	4.28E+00	4.37E+00	4.54E+00	4.84E+00	4.84E+00
1.4E+00	2.98E-02	1.34E-01	1.87E-01	2.99E-01	5.13E-01	6.58E-01	9.58E-01	1.16E+00	1.46E+00	1.73E+00	2.04E+00	2.67E+00	3.25E+00	4.13E+00	4.21E+00	4.30E+00	4.44E+00	4.44E+00
1.6E+00	2.98E-02	1.34E-01	1.87E-01	2.98E-01	5.02E-01	6.47E-01	9.46E-01	1.15E+00	1.45E+00	1.67E+00	1.96E+00	2.54E+00	3.10E+00	3.95E+00	4.03E+00	4.08E+00	4.16E+00	4.16E+00
1.8E+00	2.98E-02	1.33E-01	1.86E-01	2.97E-01	4.93E-01	6.36E-01	9.32E-01	1.13E+00	1.44E+00	1.61E+00	1.88E+00	2.41E+00	2.94E+00	3.74E+00	3.82E+00	3.85E+00	3.91E+00	3.91E+00
2.0E+00	2.98E-02	1.32E-01	1.85E-01	2.96E-01	4.81E-01	6.24E-01	9.19E-01	1.12E+00	1.42E+00	1.56E+00	1.80E+00	2.27E+00	2.77E+00	3.52E+00	3.60E+00	3.62E+00	3.68E+00	3.68E+00
2.4E+00	2.98E-02	1.30E-01	1.83E-01	2.94E-01	4.58E-01	5.98E-01	8.87E-01	1.09E+00	1.39E+00	1.47E+00	1.66E+00	2.01E+00	2.43E+00	3.07E+00	3.11E+00	3.14E+00	3.19E+00	3.19E+00
3.0E+00	2.96E-02	1.26E-01	1.79E-01	2.90E-01	4.21E-01	5.55E-01	8.31E-01	1.03E+00	1.33E+00	1.38E+00	1.49E+00	1.69E+00	1.98E+00	2.42E+00	2.44E+00	2.46E+00	2.50E+00	2.50E+00
4.0E+00	2.94E-02	1.18E-01	1.71E-01	2.82E-01	3.64E-01	4.82E-01	7.22E-01	9.16E-01	1.21E+00	1.26E+00	1.29E+00	1.36E+00	1.49E+00	1.68E+00	1.69E+00	1.70E+00	1.71E+00	1.71E+00
5.0E+00	2.92E-02	1.09E-01	1.62E-01	2.71E-01	3.19E-01	4.16E-01	6.07E-01	7.91E-01	1.07E+00	1.11E+00	1.13E+00	1.16E+00	1.21E+00	1.28E+00	1.29E+00	1.29E+00	1.30E+00	1.30E+00
6.0E+00	2.88E-02	9.96E-02	1.51E-01	2.59E-01	2.88E-01	3.61E-01	5.02E-01	6.69E-01	9.22E-01	9.47E-01	9.64E-01	1.00E+00	1.02E+00	1.05E+00	1.05E+00	1.06E+00	1.06E+00	1.06E+00
7.0E+00	2.84E-02	8.96E-02	1.40E-01	2.45E-01	2.65E-01	3.17E-01	4.14E-01	5.61E-01	7.83E-01	7.96E-01	8.12E-01	8.45E-01	8.59E-01	8.78E-01	8.81E-01	8.82E-01	8.85E-01	8.86E-01
8.0E+00	2.80E-02	8.00E-02	1.29E-01	2.31E-01	2.48E-01	2.83E-01	3.46E-01	4.71E-01	6.59E-01	6.66E-01	6.79E-01	7.04E-01	7.17E-01	7.35E-01	7.36E-01	7.38E-01	7.40E-01	7.40E-01
1.0E+01	2.80E-02	6.40E-02	1.10E-01	2.02E-01	2.19E-01	2.33E-01	2.58E-01	3.42E-01	4.68E-01	4.71E-01	4.77E-01	4.88E-01	4.99E-01	5.17E-01	5.17E-01	5.18E-01	5.19E-01	5.10E-01
1.5E+01	2.40E-02	3.48E-02	6.68E-02	1.31E-01	1.39E-01	1.44E-01	1.54E-01	1.78E-01	2.13E-01	2.15E-01	2.16E-01	2.18E-01	2.22E-01	2.28E-01	2.29E-01	2.29E-01	2.29E-01	2.30E-01
2.0E+01	2.00E-02	2.36E-02	4.30E-02	7.98E-02	8.18E-02	8.62E-02	9.50E-02	1.01E-01	1.10E-01	1.11E-01	1.12E-01	1.14E-01	1.15E-01	1.16E-01	1.16E-01	1.17E-01	1.17E-01	1.20E-01
3.0E+01	1.40E-02	1.66E-02	2.26E-02	3.26E-02	3.31E-02	3.47E-02	3.76E-02	3.81E-02	3.89E-02	3.90E-02	3.93E-02	3.99E-02	4.00E-02	4.02E-02	4.02E-02	4.02E-02	4.03E-02	4.00E-02
4.0E+01	8.80E-03	1.08E-02	1.26E-02	1.53E-02	1.58E-02	1.62E-02	1.70E-02	1.71E-02	1.72E-02	1.73E-02	1.74E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02	1.76E-02	1.76E-02	1.80E-02
6.0E+01	3.20E-03	3.88E-03	4.10E-03	4.39E-03	4.54E-03	4.60E-03	4.67E-03	4.67E-03	4.67E-03	4.67E-03	4.71E-03	4.72E-03	4.73E-03	4.73E-03	4.73E-03	4.74E-03	4.74E-03	4.80E-03
1.0E+02	5.40E-04	6.30E-04	6.41E-04	6.52E-04	6.71E-04	6.73E-04	6.76E-04	6.76E-04	6.76E-04	6.80E-04	6.80E-04	6.81E-04	6.81E-04	6.81E-04	6.81E-04	6.81E-04	6.81E-04	6.70E-04
E[keV]:	3.46E+01	5.45E+00	5.11E+00	4.79E+00	1.15E+00	1.00E+00	9.41E-01	6.89E-01	6.77E-01	2.13E-01	1.46E-01	1.46E-01	6.90E-02	6.80E-02	2.30E-02	1.30E-02	1.20E-02	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																		
0.0E+00	2.37E+00	3.49E+00	5.09E+00	6.00E+00	6.61E+00	7.69E+00	8.24E+00	8.54E+00	8.74E+00	9.04E+00	9.19E+00	9.43E+00	9.55E+00	9.60E+00	9.71E+00	9.74E+00	9.74E+00	
5.0E-02	2.37E+00	3.49E+00	5.07E+00	5.99E+00	6.60E+00	7.68E+00	8.22E+00	8.53E+00	8.73E+00	9.03E+00	9.18E+00	9.42E+00	9.53E+00	9.59E+00	9.69E+00	9.72E+00	9.72E+00	
1.0E-01	2.36E+00	3.49E+00	5.03E+00	5.95E+00	6.56E+00	7.64E+00	8.18E+00	8.49E+00	8.69E+00	8.99E+00	9.13E+00	9.38E+00	9.49E+00	9.54E+00	9.65E+00	9.68E+00	9.69E+00	
1.5E-01	2.36E+00	3.48E+00	4.97E+00	5.89E+00	6.50E+00	7.58E+00	8.12E+00	8.42E+00	8.62E+00	8.93E+00	9.07E+00	9.32E+00	9.43E+00	9.48E+00	9.59E+00	9.62E+00	9.62E+00	
2.0E-01	2.34E+00	3.46E+00	4.88E+00	5.80E+00	6.40E+00	7.48E+00	8.02E+00	8.33E+00	8.53E+00	8.83E+00	8.97E+00	9.22E+00	9.33E+00	9.38E+00	9.49E+00	9.52E+00	9.52E+00	
3.0E-01	2.27E+00	3.36E+00	4.59E+00	5.51E+00	6.11E+00	7.19E+00	7.72E+00	8.02E+00	8.22E+00	8.53E+00	8.67E+00	8.92E+00	9.03E+00	9.08E+00	9.19E+00	9.22E+00	9.22E+00	
4.0E-01	2.12E+00	3.15E+00	4.16E+00	5.08E+00	5.68E+00	6.76E+00	7.28E+00	7.58E+00	7.78E+00	8.08E+00	8.23E+00	8.47E+00	8.58E+00	8.64E+00	8.74E+00	8.77E+00	8.77E+00	
5.0E-01	1.90E+00	2.83E+00	3.62E+00	4.54E+00	5.14E+00	6.22E+00	6.72E+00	7.02E+00	7.22E+00	7.53E+00	7.67E+00	7.91E+00	8.03E+00	8.08E+00	8.19E+00	8.21E+00	8.21E+00	
6.0E-01	1.62E+00	2.43E+00	3.02E+00	3.94E+00	4.54E+00	5.62E+00	6.09E+00	6.40E+00	6.60E+00	6.90E+00	7.05E+00	7.29E+00	7.40E+00	7.45E+00	7.56E+00	7.59E+00	7.59E+00	
7.0E-01	1.32E+00	2.00E+00	2.42E+00	3.34E+00	3.95E+00	5.02E+00	5.47E+00	5.78E+00	5.98E+00	6.28E+00	6.42E+00	6.66E+00	6.77E+00	6.83E+00	6.93E+00	6.96E+00	6.96E+00	
8.0E-01	1.04E+00	1.59E+00	1.88E+00	2.79E+00	3.40E+00	4.46E+00	4.89E+00	5.19E+00	5.39E+00	5.70E+00	5.84E+00	6.08E+00	6.19E+00	6.24E+00	6.35E+00	6.38E+00	6.38E+00	
1.0E+00	5.80E-01	9.00E-01	1.05E+00	1.95E+00	2.55E+00	3.59E+00	3.97E+00	4.27E+00	4.47E+00	4.77E+00	4.92E+00	5.15E+00	5.26E+00	5.31E+00	5.42E+00	5.45E+00	5.45E+00	
1.2E+00	2.95E-01	4.66E-01	5.60E-01	1.45E+00	2.05E+00	3.05E+00	3.47E+00	3.75E+00	3.87E+00	4.17E+00	4.32E+00	4.54E+00	4.65E+00	4.70E+00	4.81E+00	4.84E+00	4.84E+00	
1.4E+00	1.46E-01	2.34E-01	3.17E-01	1.19E+00	1.77E+00	2.71E+00	2.98E+00	3.28E+00	3.49E+00	3.79E+00	3.93E+00	4.14E+00	4.26E+00	4.31E+00	4.41E+00	4.44E+00	4.44E+00	
1.6E+00	8.16E-02	1.29E-01	2.11E-01	1.06E+00	1.62E+00	2.49E+00	2.71E+00	3.01E+00	3.21E+00	3.51E+00	3.66E+00	3.86E+00	3.97E+00	4.02E+00	4.13E+00	4.16E+00	4.16E+00	
1.8E+00	5.92E-02	9.12E-02	1.70E-01	9.74E-01	1.51E+00	2.30E+00	2.48E+00	2.78E+00	2.98E+00	3.28E+00	3.42E+00	3.62E+00	3.73E+00	3.78E+00	3.88E+00	3.91E+00	3.91E+00	
2.0E+00	5.44E-02	8.20E-02	1.53E-01	9.09E-01	1.41E+00	2.12E+00	2.25E+00	2.56E+00	2.76E+00	3.05E+00	3.20E+00	3.38E+00	3.49E+00	3.55E+00	3.65E+00	3.68E+00	3.68E+00	
2.4E+00	5.32E-02	8.02E-02	1.27E-01	7.63E-01	1.19E+00	1.72E+00	1.80E+00	2.11E+00	2.31E+00	2.60E+00	2.74E+00	2.90E+00	3.01E+00	3.07E+00	3.17E+00	3.19E+00	3.19E+00	
3.0E+00	3.89E-02	6.01E-02	7.83E-02	5.18E-01	8.15E-01	1.12E+00	1.17E+00	1.47E+00	1.67E+00	1.95E+00	2.08E+00	2.21E+00	2.32E+00	2.38E+00	2.47E+00	2.50E+00	2.50E+00	
4.0E+00	1.25E-02	2.00E-02	2.64E-02	2.18E-01	3.49E-01	4.52E-01	4.98E-01	7.92E-01	9.86E-01	1.23E+00	1.34E+00	1.43E+00	1.54E+00	1.59E+00	1.68E+00	1.71E+00	1.71E+00	
5.0E+00	4.16E-03	6.56E-03	1.26E-02	8.34E-02	1.33E-01	1.90E-01	2.29E-01	5.07E-01	6.90E-01	8.81E-01	9.78E-01	1.03E+00	1.14E+00	1.19E+00	1.27E+00	1.30E+00	1.30E+00	
6.0E+00	3.34E-03	5.03E-03	9.35E-03	3.86E-02	5.89E-02	1.13E-01	1.38E-01	3.91E-01	5.58E-01	6.99E-01	7.72E-01	8.01E-01	9.09E-01	9.60E-01	1.03E+00	1.06E+00	1.06E+00	
7.0E+00	3.20E-03	4.85E-03	7.19E-03	2.69E-02	4.01E-02	8.96E-02	1.03E-01	3.24E-01	4.72E-01	5.68E-01	6.20E-01	6.40E-01	7.45E-01	7.96E-01	8.57E-01	8.85E-01	8.86E-01	
8.0E+00	2.58E-03	3.98E-03	5.11E-03	2.38E-02	3.62E-02	7.47E-02	8.14E-02	2.69E-01	3.95E-01	4.58E-01	4.92E-01	5.09E-01	6.11E-01	6.60E-01	7.12E-01	7.40E-01	7.40E-01	
1.0E+01	1.12E-03	1.78E-03	2.26E-03	1.97E-02	3.13E-02	4.77E-02	5.15E-02	1.77E-01	2.61E-01	2.86E-01	3.00E-01	3.17E-01	4.09E-01	4.55E-01	4.91E-01	5.19E-01	5.10E-01	
1.5E+01	1.76E-04	2.66E-04	5.86E-04	6.59E-03	1.10E-02	1.38E-02	1.62E-02	5.04E-02	7.44E-02	8.48E-02	8.96E-02	9.80E-02	1.62E-01	1.94E-01	2.05E-01	2.29E-01	2.30E-01	
2.0E+01	1.60E-04	2.40E-04	3.18E-04	2.00E-03	3.20E-03	5.74E-03	6.30E-03	1.53E-02	2.17E-02	3.05E-02	3.49E-02	3.69E-02	7.37E-02	9.31E-02	9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10^1
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10^-1
10^-2
0.0
54Xe
Σ_i J_i(Q)
Q

Z=55

Compton profiles for the single orbitals and binding energies

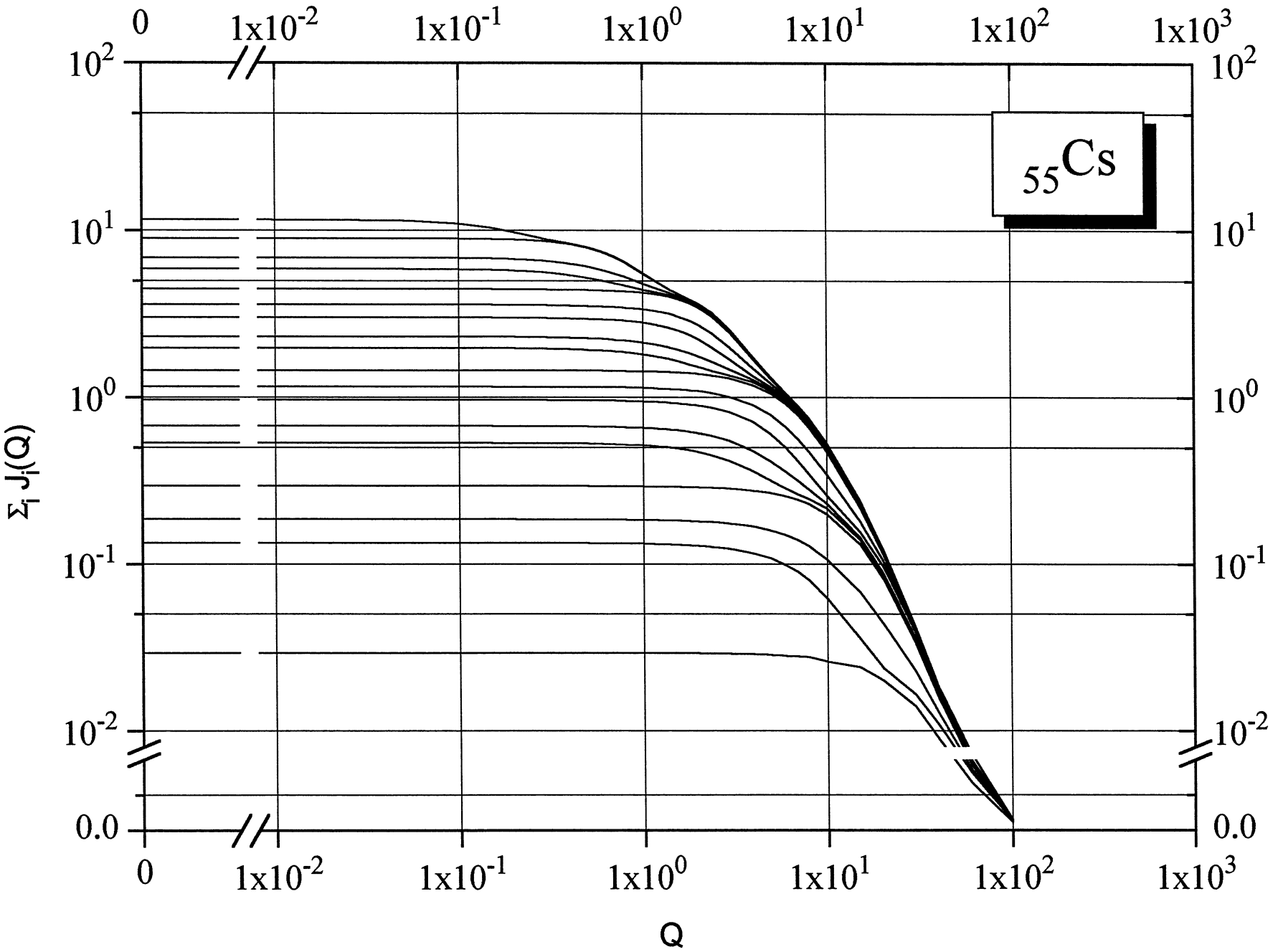
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	5p-(1)	Total
0.0E+00	1.46E-02	5.23E-02	2.59E-02	2.73E-02	1.20E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.64E-01	1.70E-01	1.76E-01	1.44E-01	1.45E-01	7.20E-01	4.98E-01	5.22E-01	2.74E+00	1.17E+01
5.0E-02	1.46E-02	5.23E-02	2.59E-02	2.73E-02	1.20E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.64E-01	1.70E-01	1.76E-01	1.44E-01	1.45E-01	7.15E-01	4.98E-01	5.22E-01	2.55E+00	1.15E+01
1.0E-01	1.46E-02	5.23E-02	2.59E-02	2.73E-02	1.20E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.63E-01	1.70E-01	1.76E-01	1.44E-01	1.45E-01	7.02E-01	4.98E-01	5.22E-01	2.05E+00	1.10E+01
1.5E-01	1.46E-02	5.23E-02	2.59E-02	2.73E-02	1.20E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.62E-01	1.70E-01	1.76E-01	1.44E-01	1.45E-01	6.82E-01	4.97E-01	5.21E-01	1.44E+00	1.04E+01
2.0E-01	1.46E-02	5.23E-02	2.59E-02	2.73E-02	1.19E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.60E-01	1.70E-01	1.76E-01	1.44E-01	1.45E-01	6.54E-01	4.96E-01	5.19E-01	8.91E-01	9.74E+00
3.0E-01	1.46E-02	5.22E-02	2.59E-02	2.73E-02	1.19E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.56E-01	1.70E-01	1.75E-01	1.44E-01	1.45E-01	5.80E-01	4.88E-01	5.09E-01	2.54E-01	8.89E+00
4.0E-01	1.46E-02	5.22E-02	2.59E-02	2.73E-02	1.18E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.49E-01	1.69E-01	1.75E-01	1.44E-01	1.45E-01	4.92E-01	4.70E-01	4.87E-01	8.67E-02	8.40E+00
5.0E-01	1.46E-02	5.22E-02	2.59E-02	2.73E-02	1.18E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.42E-01	1.69E-01	1.75E-01	1.44E-01	1.45E-01	3.99E-01	4.39E-01	4.51E-01	7.10E-02	7.98E+00
6.0E-01	1.46E-02	5.21E-02	2.59E-02	2.73E-02	1.17E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.32E-01	1.69E-01	1.75E-01	1.44E-01	1.45E-01	3.11E-01	3.98E-01	4.02E-01	6.81E-02	7.50E+00
7.0E-01	1.46E-02	5.20E-02	2.59E-02	2.73E-02	1.16E-01	7.10E-02	7.35E-02	4.88E-02	4.94E-02	2.22E-01	1.68E-01	1.74E-01	1.44E-01	1.45E-01	2.34E-01	3.48E-01	3.46E-01	5.61E-02	6.98E+00
8.0E-01	1.46E-02	5.19E-02	2.59E-02	2.73E-02	1.15E-01	7.09E-02	7.35E-02	4.88E-02	4.94E-02	2.11E-01	1.67E-01	1.73E-01	1.43E-01	1.45E-01	1.71E-01	2.95E-01	2.87E-01	4.07E-02	6.46E+00
9.0E-01	1.46E-02	5.17E-02	2.59E-02	2.73E-02	1.12E-01	7.09E-02	7.34E-02	4.88E-02	4.94E-02	1.86E-01	1.64E-01	1.69E-01	1.43E-01	1.44E-01	8.96E-02	1.92E-01	1.79E-01	1.72E-02	5.56E+00
1.0E+00	1.46E-02	5.15E-02	2.59E-02	2.73E-02	1.09E-01	7.08E-02	7.33E-02	4.88E-02	4.94E-02	1.60E-01	1.59E-01	1.63E-01	1.41E-01	1.43E-01	5.41E-02	1.13E-01	1.01E-01	6.66E-03	4.89E+00
1.1E+00	1.46E-02	5.12E-02	2.59E-02	2.73E-02	1.05E-01	7.07E-02	7.32E-02	4.88E-02	4.94E-02	1.34E-01	1.52E-01	1.55E-01	1.39E-01	1.40E-01	4.39E-02	6.15E-02	5.31E-02	3.22E-03	4.44E+00
1.2E+00	1.46E-02	5.08E-02	2.59E-02	2.73E-02	1.01E-01	7.05E-02	7.29E-02	4.88E-02	4.94E-02	1.10E-01	1.43E-01	1.45E-01	1.35E-01	1.36E-01	4.28E-02	3.37E-02	2.90E-02	2.48E-03	4.13E+00
1.3E+00	1.46E-02	5.04E-02	2.59E-02	2.73E-02	9.61E-02	7.02E-02	7.26E-02	4.88E-02	4.94E-02	8.87E-02	1.32E-01	1.32E-01	1.30E-01	1.31E-01	4.22E-02	2.09E-02	1.89E-02	2.43E-03	3.89E+00
1.4E+00	1.46E-02	5.00E-02	2.59E-02	2.73E-02	9.13E-02	6.98E-02	7.21E-02	4.88E-02	4.93E-02	7.05E-02	1.20E-01	1.19E-01	1.23E-01	1.24E-01	3.93E-02	1.62E-02	1.58E-02	2.37E-03	3.66E+00
1.5E+00	1.45E-02	4.90E-02	2.59E-02	2.73E-02	8.11E-02	6.87E-02	7.08E-02	4.87E-02	4.93E-02	4.43E-02	9.34E-02	9.08E-02	1.07E-01	1.07E-01	2.80E-02	1.51E-02	1.53E-02	1.81E-03	3.22E+00
1.6E+00	1.45E-02	4.73E-02	2.59E-02	2.73E-02	6.55E-02	6.60E-02	6.77E-02	4.85E-02	4.90E-02	2.64E-02	5.69E-02	5.33E-02	7.78E-02	7.70E-02	1.19E-02	1.29E-02	1.23E-02	7.93E-04	2.56E+00
1.7E+00	1.44E-02	4.38E-02	2.58E-02	2.71E-02	4.21E-02	5.86E-02	5.93E-02	4.74E-02	4.79E-02	2.25E-02	2.04E-02	1.84E-02	3.68E-02	3.58E-02	3.66E-03	5.22E-03	4.43E-03	2.06E-04	1.75E+00
1.8E+00	1.43E-02	3.97E-02	2.56E-02	2.69E-02	2.50E-02	4.85E-02	4.81E-02	4.52E-02	4.55E-02	2.01E-02	9.82E-03	9.71E-03	1.46E-02	1.39E-02	3.36E-03	1.63E-03	1.40E-03	1.81E-04	1.32E+00
1.9E+00	1.41E-02	3.52E-02	2.53E-02	2.65E-02	1.49E-02	3.73E-02	3.61E-02	4.16E-02	4.18E-02	1.35E-02	8.77E-03	9.14E-03	5.91E-03	5.66E-03	2.59E-03	9.99E-04	9.95E-04	1.43E-04	1.07E+00
2.0E+00	1.40E-02	3.07E-02	2.48E-02	2.59E-02	1.02E-02	2.68E-02	2.52E-02	3.69E-02	3.70E-02	7.38E-03	8.42E-03	8.50E-03	3.51E-03	3.48E-03	1.49E-03	9.76E-04	9.71E-04	8.29E-05	8.97E-01
2.1E+00	1.38E-02	2.62E-02	2.41E-02	2.51E-02	8.68E-03	1.82E-02	1.67E-02	3.17E-02	3.16E-02	3.78E-03	7.01E-03	6.74E-03	3.15E-03	3.18E-03	7.34E-04	8.67E-04	8.19E-04	4.08E-05	7.53E-01
2.2E+00	1.30E-02	1.80E-02	2.20E-02	2.30E-02	8.40E-03	7.60E-03	6.70E-03	2.20E-02	2.10E-02	1.90E-03	3.40E-03	3.00E-03	3.00E-03	3.00E-03	2.80E-04	4.50E-04	3.80E-04	1.50E-05	5.30E-01
2.3E+00	1.20E-02	5.80E-03	1.60E-02	1.60E-02	4.40E-03	2.40E-03	2.60E-03	6.40E-03	6.20E-03	1.30E-03	4.80E-04	4.90E-04	1.20E-03	1.20E-03	1.90E-04	5.60E-05	5.40E-05	1.00E-05	2.40E-01
2.4E+00	1.00E-02	1.90E-03	1.00E-02	9.40E-03	1.10E-03	2.20E-03	2.20E-03	1.80E-03	1.70E-03	3.30E-04	4.20E-04	4.40E-04	3.50E-04	3.30E-04	5.00E-05	4.80E-05	4.90E-05	2.70E-06	1.20E-01
3.0E+00	7.00E-03	1.30E-03	3.10E-03	2.70E-03	2.50E-04	8.60E-04	7.70E-04	1.60E-04	1.40E-04	5.40E-05	1.80E-04	1.60E-04	3.20E-05	2.90E-05	7.60E-06	2.10E-05	1.80E-05	4.10E-07	4.20E-02
4.0E+00	4.50E-03	1.00E-03	9.70E-04	7.50E-04	2.20E-04	2.60E-04	2.10E-04	2.10E-05	1.80E-05	4.80E-05	5.50E-05	4.40E-05	4.10E-06	3.50E-06	6.80E-06	6.30E-06	4.90E-06	3.60E-07	1.80E-02
6.0E+01	1.70E-03	3.60E-04	1.20E-04	7.90E-05	8.20E-05	3.10E-05	2.10E-05	8.60E-07	6.80E-07	1.80E-05	6.40E-06	4.30E-06	1.70E-07	1.30E-07	2.50E-06	7.40E-07	4.80E-07	1.30E-07	5.00E-03
1.0E+02	2.90E-04	4.90E-05	6.40E-06	2.90E-06	1.00E-05	1.50E-06	7.10E-07	1.20E-08	7.70E-09	2.30E-06	3.10E-07	1.50E-07	2.40E-09	1.50E-09	3.20E-07	3.50E-08	1.60E-08	1.70E-09	7.30E-04
E[keV]:	3.60E+01	5.71E+00	5.36E+00	5.01E+00	1.22E+00	1.07E+00	9.98E-01	7.40E-01	7.24E-01	2.31E-01	1.62E-01	1.62E-01	7.70E-02	7.50E-02	2.30E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	5p-(1)	Total
0.0E+00	2.92E-02	1.34E-01	1.86E-01	2.95E-01	5.35E-01	6.77E-01	9.71E-01	1.17E+00	1.46E+00	1.99E+00	2.33E+00	3.03E+00	3.61E+00	4.48E+00	5.92E+00	6.92E+00	9.00E+00	1.17E+01	1.17E+01
5.0E-02	2.92E-02	1.34E-01	1.86E-01	2.95E-01	5.35E-01	6.77E-01	9.71E-01	1.17E+00	1.46E+00	1.99E+00	2.33E+00	3.03E+00	3.61E+00	4.48E+00	5.91E+00	6.91E+00	8.99E+00	1.15E+01	1.15E+01
1.0E-01	2.92E-02	1.34E-01	1.86E-01	2.95E-01	5.35E-01	6.77E-01	9.71E-01	1.17E+00	1.46E+00	1.99E+00	2.33E+00	3.03E+00	3.61E+00	4.48E+00	5.88E+00	6.88E+00	8.97E+00	1.10E+01	1.10E+01
1.5E-01	2.92E-02	1.34E-01	1.86E-01	2.95E-01	5.35E-01	6.77E-01	9.71E-01	1.17E+00	1.46E+00	1.99E+00	2.33E+00	3.03E+00	3.61E+00	4.48E+00	5.84E+00	6.83E+00	8.92E+00	1.04E+01	1.04E+01
2.0E-01	2.92E-02	1.34E-01	1.86E-01	2.95E-01	5.33E-01	6.75E-01	9.69E-01	1.16E+00	1.46E+00	1.98E+00	2.32E+00	3.02E+00	3.60E+00	4.47E+00	5.78E+00	6.77E+00	8.85E+00	9.74E+00	9.74E+00
3.0E-01	2.92E-02	1.34E-01	1.85E-01	2.95E-01	5.33E-01	6.75E-01	9.69E-01	1.16E+00	1.46E+00	1.97E+00	2.31E+00	3.01E+00	3.59E+00	4.46E+00	5.62E+00	6.59E+00	8.63E+00	8.88E+00	8.89E+00
4.0E-01	2.92E-02	1.34E-01	1.85E-01	2.95E-01	5.31E-01	6.73E-01	9.67E-01	1.16E+00	1.46E+00	1.96E+00	2.29E+00	2.99E+00	3.57E+00	4.44E+00	5.42E+00	6.36E+00	8.31E+00	8.40E+00	8.40E+00
5.0E-01	2.92E-02	1.34E-01	1.85E-01	2.95E-01	5.31E-01	6.73E-01	9.67E-01	1.16E+00	1.46E+00	1.94E+00	2.28E+00	2.98E+00	3.56E+00	4.43E+00	5.22E+00	6.10E+00	7.91E+00	7.98E+00	7.98E+00
6.0E-01	2.92E-02	1.33E-01	1.85E-01	2.94E-01	5.26E-01	6.70E-01	9.64E-01	1.16E+00	1.46E+00	1.92E+00	2.26E+00	2.96E+00	3.53E+00	4.40E+00	5.03E+00	5.82E+00	7.43E+00	7.50E+00	7.50E+00
7.0E-01	2.92E-02	1.33E-01	1.85E-01	2.94E-01	5.26E-01	6.68E-01	9.62E-01	1.16E+00	1.45E+00	1.90E+00	2.23E+00	2.93E+00	3.51E+00	4.38E+00	4.84E+00	5.54E+00	6.92E+00	6.98E+00	6.98E+00
8.0E-01	2.92E-02	1.33E-01	1.85E-01	2.94E-01	5.24E-01	6.66E-01	9.60E-01	1.16E+00	1.45E+00	1.87E+00	2.21E+00	2.90E+00	3.47E+00	4.34E+00	4.68E+00	5.27E+00	6.42E+00	6.46E+00	6.46E+00
1.0E+00	2.92E-02	1.33E-01	1.84E-01	2.94E-01	5.18E-01	6.59E-01	9.53E-01	1.15E+00	1.44E+00	1.82E+00	2.14E+00	2.82E+00	3.39E+00	4.26E+00	4.44E+00	4.82E+00	5.54E+00	5.55E+00	5.56E+00
1.2E+00	2.92E-02	1.32E-01	1.84E-01	2.93E-01	5.11E-01	6.53E-01	9.46E-01	1.14E+00	1.44E+00	1.76E+00	2.08E+00	2.73E+00	3.29E+00	4.15E+00	4.26E+00	4.48E+00	4.89E+00	4.89E+00	4.89E+00
1.4E+00	2.92E-02	1.32E-01	1.83E-01	2.93E-01	5.03E-01	6.44E-01	9.37E-01	1.13E+00	1.43E+00	1.70E+00	2.00E+00	2.62E+00	3.18E+00	4.02E+00	4.10E+00	4.23E+00	4.44E+00	4.44E+00	4.44E+00
1.6E+00	2.92E-02	1.31E-01	1.83E-01	2.92E-01	4.94E-01	6.35E-01	9.26E-01	1.12E+00	1.42E+00	1.64E+00	1.92E+00	2.50E+00	3.04E+00	3.86E+00	3.95E+00	4.01E+00	4.13E+00	4.13E+00	4.13E+00
1.8E+00	2.92E-02	1.30E-01	1.82E-01	2.91E-01	4.83E-01	6.24E-01	9.14E-01	1.11E+00	1.41E+00	1.58E+00	1.85E+00	2.38E+00	2.90E+00	3.68E+00	3.77E+00	3.81E+00	3.88E+00	3.89E+00	3.89E+00
2.0E+00	2.92E-02	1.29E-01	1.81E-01	2.90E-01	4.73E-01	6.12E-01	9.01E-01	1.10E+00	1.39E+00	1.53E+00	1.77E+00	2.25E+00	2.74E+00	3.48E+00	3.56E+00	3.60E+00	3.66E+00	3.66E+00	3.66E+00
2.4E+00	2.90E-02	1.27E-01	1.79E-01	2.88E-01	4.50E-01	5.88E-01	8.71E-01	1.07E+00	1.36E+00	1.45E+00	1.64E+00	2.00E+00	2.43E+00	3.07E+00	3.13E+00	3.16E+00	3.22E+00	3.22E+00	3.22E+00
3.0E+00	2.90E-02	1.24E-01	1.75E-01	2.85E-01	4.16E-01	5.48E-01	8.18E-01	1.01E+00	1.31E+00	1.36E+00	1.47E+00	1.69E+00	2.00E+00	2.46E+00	2.48E+00	2.51E+00	2.56E+00	2.56E+00	2.56E+00
4.0E+00	2.88E-02	1.16E-01	1.64E-01	2.61E-01	3.78E-01	4.91E-01	7.45E-01	9.05E-01	1.19E+00	1.24E+00	1.35E+00	1.50E+00	1.71E+00	1.72E+00	1.73E+00	1.75E+00	1.75E+00	1.75E+00	1.75E+00
5.0E+00	2.86E-02	1.08E-01	1.59E-01	2.67E-01	3.17E-01	4.14E-01	6.06E-01	7.87E-01	1.06E+00	1.10E+00	1.12E+00	1.16E+00	1.22E+00	1.30E+00	1.31E+00	1.31E+00	1.32E+00	1.32E+00	1.32E+00
6.0E+00	2.82E-02	9.86E-02	1.49E-01	2.55E-01	2.85E-01	3.60E-01	5.04E-01	6.70E-01	9.21E-01	9.48E-01	9.66E-01	1.00E+00	1.03E+00	1.06E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00
7.0E+00	2.80E-02	8.94E-02	1.39E-01	2.43E-01	2.63E-01	3.17E-01	4.17E-01	5.65E-01	7.87E-01	8.02E-01	8.19E-01	8.53E-01	8.67E-01	8.88E-01	8.90E-01	8.92E-01	8.96E-01	8.96E-01	8.97E-01
8.0E+00	2.76E-02	8.00E-02	1.28E-01	2.29E-01	2.46E-01	2.82E-01	3.49E-01	4.76E-01	6.66E-01	6.73E-01	6.87E-01	7.14E-01	7.27E-01	7.46E-01	7.47E-01	7.49E-01	7.52E-01	7.52E-01	7.53E-01
1.0E+01	2.60E-02	6.20E-02	1.06E-01	1.98E-01	2.15E-01	2.30E-01	2.57E-01	3.45E-01	4.71E-01	4.75E-01	4.81E-01	4.93E-01	5.05E-01	5.23E-01	5.24E-01	5.25E-01	5.26E-01	5.26E-01	5.30E-01
1.5E+01	2.40E-02	3.56E-02	6.76E-02	1.32E-01	1.40E-01	1.45E-01	1.56E-01	1.81E-01	2.18E-01	2.21E-01	2.22E-01	2.24E-01	2.29E-01	2.36E-01	2.36E-01	2.36E-01	2.37E-01	2.37E-01	2.40E-01
2.0E+01	2.00E-02	2.38E-02	4.38E-02	8.14E-02	8.36E-02	8.80E-02	9.68E-02	1.04E-01	1.14E-01	1.15E-01	1.16E-01	1.17E-01	1.19E-01	1.21E-01	1.21E-01	1.21E-01	1.21E-01	1.21E-01	1.20E-01
3.0E+01	1.40E-02	1.66E-02	2.28E-02	3.36E-02	3.41E-02	3.58E-02	3.89E-02	3.95E-02	4.04E-02	4.05E-02	4.08E-02	4.15E-02	4.16E-02	4.18E-02	4.18E-02	4.18E-02	4.19E-02	4.19E-02	4.20E-02
4.0E+01	9.00E-03	1.10E-02	1.29E-02	1.59E-02	1.64E-02	1.69E-02	1.77E-02	1.78E-02	1.79E-02	1.80E-02	1.81E-02	1.83E-02	1.83E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.80E-02
6.0E+01	3.40E-03	4.12E-03	4.36E-03	4.68E-03	4.84E-03	4.90E-03	4.99E-03	4.99E-03	4.99E-03	5.03E-03	5.04E-03	5.06E-03	5.06E-03	5.06E-03	5.07E-03	5.07E-03	5.07E-03	5.07E-03	5.00E-03
1.0E+02	5.80E-04	6.76E-04	6.91E-04	7.02E-04	7.22E-04	7.25E-04	7.28E-04	7.28E-04	7.28E-04	7.33E-04	7.34E-04	7.34E-04	7.34E-04	7.35E-04	7.35E-04	7.35E-04	7.35E-04	7.35E-04	7.30E-04
E[keV]:	3.60E+01	5.71E+00	5.36E+00	5.01E+00	1.22E+00	1.07E+00	9.98E-01	7.40E-01	7.24E-01	2.31E-01	1.62E-01	1.62E-01	7.70E-02	7.50E-02	2.30E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																			
0.0E+00	5.82E+00	7.26E+00	8.13E+00	8.71E+00	9.75E+00	1.03E+01	1.06E+01	1.08E+01	1.11E+01	1.12E+01	1.14E+01	1.16E+01	1.16E+01	1.17E+01	1.17E+01	1.17E+01			
5.0E-02	5.63E+00	7.06E+00	7.93E+00	8.51E+00	9.55E+00	1.01E+01	1.04E+01	1.06E+01	1.09E+01	1.10E+01	1.12E+01	1.14E+01	1.14E+01	1.15E+01	1.15E+01	1.15E+01			
1.0E-01	5.13E+00	6.54E+00	7.41E+00	7.98E+00	9.03E+00	9.55E+00	9.85E+00	1.00E+01	1.03E+01	1.05E+01	1.07E+01	1.08E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01			
1.5E-01	4.52E+00	5.88E+00	6.75E+00	7.33E+00	8.37E+00	8.90E+00	9.19E+00	9.39E+00	9.68E+00	9.82E+00	1.01E+01	1.02E+01	1.02E+01	1.03E+01	1.04E+01	1.04E+01			
2.0E-01	3.96E+00	5.27E+00	6.14E+00	6.71E+00	7.76E+00	8.28E+00	8.57E+00	8.77E+00	9.06E+00	9.20E+00	9.44E+00	9.55E+00	9.60E+00	9.71E+00	9.74E+00	9.74E+00			
3.0E-01	3.27E+00	4.43E+00	5.30E+00	5.87E+00	6.91E+00	7.42E+00	7.72E+00	7.92E+00	8.21E+00	8.35E+00	8.59E+00	8.70E+00	8.75E+00	8.86E+00	8.88E+00	8.89E+00			
4.0E-01	2.97E+00	3.96E+00	4.83E+00	5.40E+00	6.44E+00	6.94E+00	7.24E+00	7.43E+00	7.73E+00	7.87E+00	8.10E+00	8.21E+00	8.27E+00	8.37E+00	8.40E+00	8.40E+00			
5.0E-01	2.75E+00	3.55E+00	4.42E+00	5.00E+00	6.04E+00	6.52E+00	6.82E+00	7.01E+00	7.30E+00	7.45E+00	7.68E+00	7.79E+00	7.84E+00	7.95E+00	7.98E+00	7.98E+00			
6.0E-01	2.47E+00	3.09E+00	3.96E+00	4.54E+00	5.58E+00	6.04E+00	6.34E+00	6.53E+00	6.83E+00	6.97E+00	7.20E+00	7.31E+00	7.36E+00	7.47E+00	7.50E+00	7.50E+00			
7.0E-01	2.14E+00	2.60E+00	3.47E+00	4.05E+00	5.08E+00	5.53E+00	5.82E+00	6.02E+00	6.31E+00	6.45E+00	6.69E+00	6.79E+00	6.85E+00	6.95E+00	6.98E+00	6.98E+00			
8.0E-01	1.78E+00	2.12E+00	2.99E+00	3.56E+00	4.59E+00	5.01E+00	5.31E+00	5.50E+00	5.80E+00	5.94E+00	6.17E+00	6.28E+00	6.33E+00	6.43E+00	6.46E+00	6.46E+00			
1.0E+00	1.12E+00	1.30E+00	2.16E+00	2.73E+00	3.74E+00	4.11E+00	4.40E+00	4.60E+00	4.89E+00	5.04E+00	5.26E+00	5.37E+00	5.42E+00	5.52E+00	5.55E+00	5.56E+00			
1.2E+00	6.37E-01	7.45E-01	1.60E+00	2.17E+00	3.14E+00	3.46E+00	3.75E+00	3.95E+00	4.24E+00	4.38E+00	4.60E+00	4.71E+00	4.76E+00	4.87E+00	4.89E+00	4.89E+00			
1.4E+00	3.39E-01	4.26E-01	1.27E+00	1.82E+00	2.75E+00	3.01E+00	3.31E+00	3.51E+00	3.80E+00	3.94E+00	4.15E+00	4.26E+00	4.31E+00	4.41E+00	4.44E+00	4.44E+00			
1.6E+00	1.86E-01	2.71E-01	1.09E+00	1.63E+00	2.49E+00	2.71E+00	3.01E+00	3.21E+00	3.50E+00	3.64E+00	3.84E+00	3.95E+00	4.00E+00	4.10E+00	4.13E+00	4.13E+00			
1.8E+00	1.20E-01	2.04E-01	9.90E-01	1.51E+00	2.30E+00	2.48E+00	2.78E+00	2.97E+00	3.26E+00	3.40E+00	3.59E+00	3.70E+00	3.76E+00	3.86E+00	3.89E+00	3.89E+00			
2.0E+00	9.80E-02	1.77E-01	9.21E-01	1.41E+00	2.13E+00	2.27E+00	2.57E+00	2.76E+00	3.05E+00	3.19E+00	3.38E+00	3.53E+00	3.63E+00	3.66E+00	3.66E+00	3.66E+00			
2.4E+00	9.32E-02	1.49E-01	7.91E-01	1.22E+00	1.77E+00	1.86E+00	2.15E+00	2.35E+00	2.63E+00	2.77E+00	2.93E+00	3.04E+00	3.09E+00	3.19E+00	3.22E+00	3.22E+00			
3.0E+00	7.58E-02	9.96E-02	5.62E-01	8.73E-01	1.20E+00	1.25E+00	1.55E+00	1.74E+00	2.01E+00	2.14E+00	2.27E+00	2.38E+00	2.44E+00	2.53E+00	2.56E+00	2.56E+00			
4.0E+00	2.84E-02	3.57E-02	2.50E-01	3.98E-01	5.12E-01	5.57E-01	8.44E-01	1.03E+00	1.27E+00	1.39E+00	1.47E+00	1.58E+00	1.63E+00	1.72E+00	1.75E+00	1.75E+00			
5.0E+00	9.04E-03	1.58E-02	9.92E-02	1.58E-01	2.16E-01	2.56E-01	5.29E-01	7.10E-01	9.02E-01	9.99E-01	1.05E+00	1.16E+00	1.21E+00	1.29E+00	1.32E+00	1.32E+00			
6.0E+00	6.12E-03	1.13E-02	4.53E-02	6.89E-02	1.23E-01	1.50E-01	4.01E-01	5.67E-01	7.12E-01	7.86E-01	8.16E-01	9.22E-01	9.73E-01	1.04E+00	1.07E+00	1.07E+00			
7.0E+00	5.92E-03	8.90E-03	2.98E-02	4.38E-02	9.47E-02	1.09E-01	3.31E-01	4.79E-01	5.80E-01	6.33E-01	6.54E-01	7.57E-01	8.07E-01	8.68E-01	8.96E-01	8.97E-01			
8.0E+00	5.05E-03	6.52E-03	2.56E-02	3.82E-02	7.92E-02	8.67E-02	2.76E-01	4.03E-01	4.70E-01	5.06E-01	5.24E-01	6.24E-01	6.72E-01	7.25E-01	7.52E-01	7.53E-01			
1.0E+01	2.44E-03	3.00E-03	2.10E-02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10-1
10-2
0.0
55Cs
Σi Ji(Q)
Q

Z=56

Compton profiles for the single orbitals and binding energies

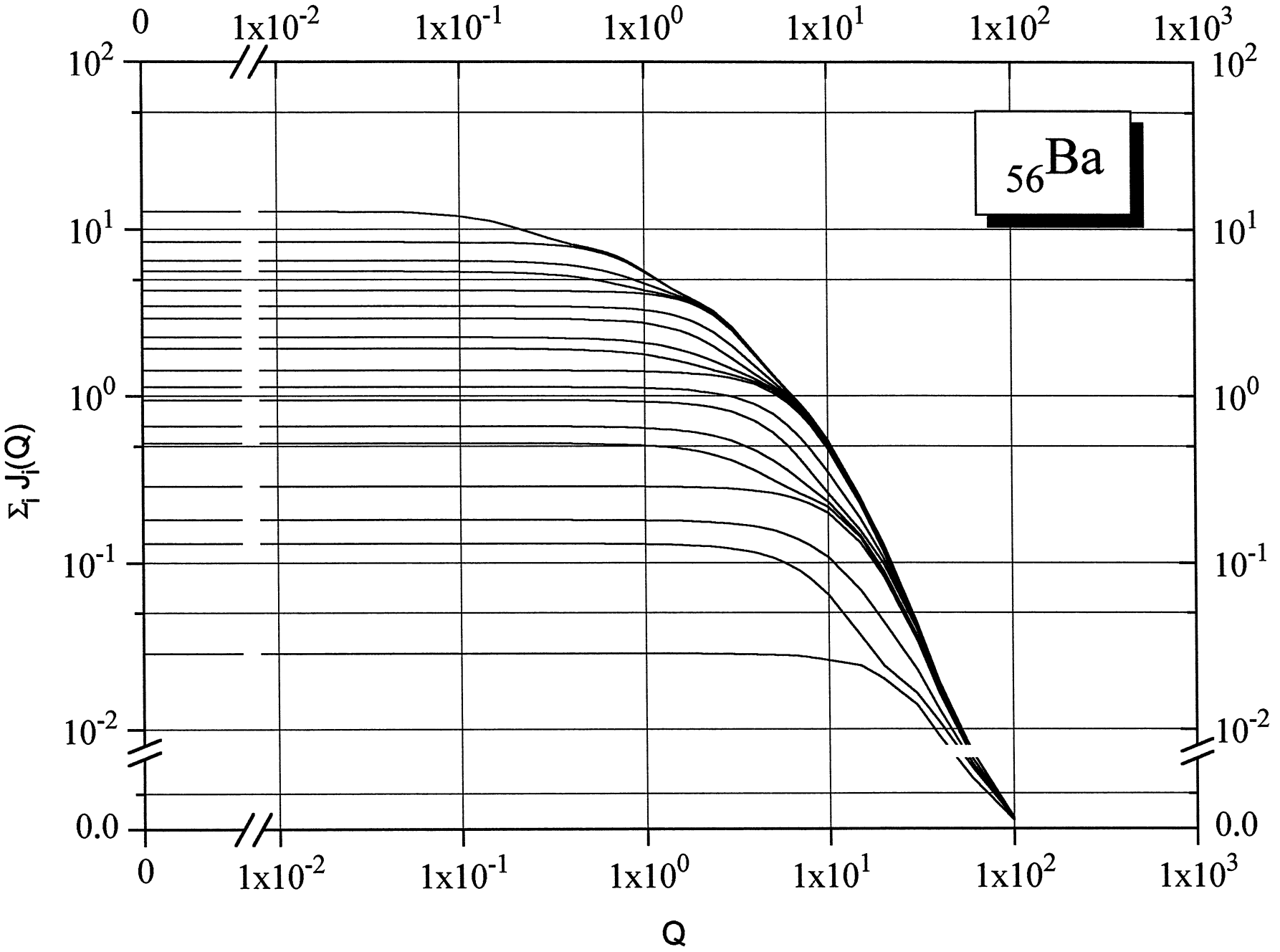
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	5p-(2)	Total
0.0E+00	1.43E-02	5.12E-02	2.54E-02	2.68E-02	1.17E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.55E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	6.57E-01	4.52E-01	4.73E-01	2.23E+00	1.29E+01
5.0E-02	1.43E-02	5.12E-02	2.54E-02	2.68E-02	1.17E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.54E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	6.53E-01	4.52E-01	4.73E-01	2.12E+00	1.27E+01
1.0E-01	1.43E-02	5.12E-02	2.54E-02	2.68E-02	1.17E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.54E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	6.43E-01	4.52E-01	4.73E-01	1.82E+00	1.20E+01
1.5E-01	1.43E-02	5.12E-02	2.54E-02	2.68E-02	1.17E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.53E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	6.27E-01	4.52E-01	4.72E-01	1.42E+00	1.12E+01
2.0E-01	1.43E-02	5.12E-02	2.54E-02	2.68E-02	1.16E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.51E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	6.05E-01	4.51E-01	4.71E-01	1.01E+00	1.03E+01
3.0E-01	1.43E-02	5.11E-02	2.54E-02	2.68E-02	1.16E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.47E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	5.47E-01	4.46E-01	4.64E-01	4.01E-01	8.95E+00
4.0E-01	1.43E-02	5.11E-02	2.54E-02	2.68E-02	1.16E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.41E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	4.75E-01	4.33E-01	4.50E-01	1.44E-01	8.20E+00
5.0E-01	1.43E-02	5.10E-02	2.54E-02	2.68E-02	1.15E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.34E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	3.97E-01	4.13E-01	4.25E-01	8.24E-02	7.76E+00
6.0E-01	1.43E-02	5.10E-02	2.54E-02	2.68E-02	1.14E-01	6.92E-02	7.18E-02	4.75E-02	4.81E-02	2.26E-01	1.63E-01	1.69E-01	1.37E-01	1.39E-01	3.20E-01	3.83E-01	3.90E-01	7.74E-02	7.37E+00
7.0E-01	1.43E-02	5.09E-02	2.54E-02	2.68E-02	1.13E-01	6.92E-02	7.17E-02	4.75E-02	4.81E-02	2.17E-01	1.62E-01	1.68E-01	1.37E-01	1.39E-01	2.50E-01	3.45E-01	3.47E-01	7.45E-02	6.95E+00
8.0E-01	1.43E-02	5.08E-02	2.54E-02	2.68E-02	1.12E-01	6.92E-02	7.17E-02	4.75E-02	4.81E-02	2.06E-01	1.61E-01	1.67E-01	1.37E-01	1.39E-01	1.90E-01	3.02E-01	2.99E-01	6.40E-02	6.50E+00
1.0E+00	1.43E-02	5.06E-02	2.54E-02	2.68E-02	1.09E-01	6.91E-02	7.17E-02	4.75E-02	4.81E-02	1.83E-01	1.59E-01	1.64E-01	1.36E-01	1.38E-01	1.05E-01	2.13E-01	2.03E-01	3.56E-02	5.64E+00
1.2E+00	1.43E-02	5.04E-02	2.54E-02	2.68E-02	1.06E-01	6.90E-02	7.16E-02	4.75E-02	4.81E-02	1.59E-01	1.54E-01	1.59E-01	1.35E-01	1.37E-01	6.24E-02	1.36E-01	1.24E-01	1.56E-02	4.95E+00
1.4E+00	1.43E-02	5.01E-02	2.54E-02	2.68E-02	1.03E-01	6.89E-02	7.14E-02	4.75E-02	4.81E-02	1.35E-01	1.48E-01	1.51E-01	1.34E-01	1.35E-01	4.69E-02	7.97E-02	7.03E-02	7.02E-03	4.46E+00
1.6E+00	1.43E-02	4.98E-02	2.54E-02	2.68E-02	9.89E-02	6.87E-02	7.12E-02	4.75E-02	4.81E-02	1.12E-01	1.40E-01	1.42E-01	1.31E-01	1.32E-01	4.39E-02	4.53E-02	3.92E-02	4.20E-03	4.12E+00
1.8E+00	1.43E-02	4.94E-02	2.54E-02	2.68E-02	9.47E-02	6.85E-02	7.09E-02	4.75E-02	4.81E-02	9.13E-02	1.30E-01	1.31E-01	1.26E-01	1.28E-01	4.37E-02	2.72E-02	2.41E-02	3.69E-03	3.86E+00
2.0E+00	1.43E-02	4.90E-02	2.54E-02	2.68E-02	9.02E-02	6.81E-02	7.05E-02	4.75E-02	4.81E-02	7.34E-02	1.20E-01	1.19E-01	1.21E-01	1.22E-01	4.21E-02	1.93E-02	1.83E-02	3.67E-03	3.64E+00
2.4E+00	1.42E-02	4.81E-02	2.54E-02	2.68E-02	8.06E-02	6.71E-02	6.93E-02	4.74E-02	4.80E-02	4.68E-02	9.53E-02	9.31E-02	1.07E-01	1.07E-01	3.25E-02	1.63E-02	1.66E-02	3.12E-03	3.23E+00
3.0E+00	1.42E-02	4.65E-02	2.53E-02	2.67E-02	6.57E-02	6.47E-02	6.65E-02	4.72E-02	4.78E-02	2.73E-02	6.03E-02	5.67E-02	8.07E-02	8.00E-02	1.52E-02	1.49E-02	1.45E-02	1.54E-03	2.61E+00
4.0E+00	1.41E-02	4.32E-02	2.52E-02	2.66E-02	4.30E-02	5.80E-02	5.88E-02	4.63E-02	4.69E-02	2.22E-02	2.27E-02	2.04E-02	4.06E-02	3.96E-02	4.24E-03	6.85E-03	5.92E-03	3.67E-04	1.79E+00
5.0E+00	1.40E-02	3.93E-02	2.51E-02	2.64E-02	2.60E-02	4.86E-02	4.83E-02	4.44E-02	4.48E-02	2.04E-02	1.03E-02	1.01E-02	1.69E-02	1.62E-02	3.66E-03	2.19E-03	1.85E-03	2.88E-04	1.34E+00
6.0E+00	1.39E-02	3.50E-02	2.48E-02	2.60E-02	1.56E-02	3.80E-02	3.66E-02	4.11E-02	4.14E-02	1.45E-02	8.72E-03	9.10E-03	6.90E-03	6.59E-03	3.02E-03	1.16E-03	1.14E-03	2.44E-04	1.08E+00
7.0E+00	1.37E-02	3.07E-02	2.43E-02	2.55E-02	1.05E-02	2.78E-02	2.62E-02	3.69E-02	3.70E-02	8.25E-03	8.52E-03	8.68E-03	3.80E-03	3.73E-03	1.84E-03	1.10E-03	1.12E-03	1.51E-04	9.07E-01
8.0E+00	1.35E-02	2.64E-02	2.37E-02	2.48E-02	8.66E-03	1.92E-02	1.76E-02	3.20E-02	3.19E-02	4.29E-03	7.34E-03	7.14E-03	3.21E-03	3.23E-03	9.39E-04	1.02E-03	9.84E-04	7.70E-05	7.64E-01
1.0E+01	1.30E-02	1.90E-02	2.20E-02	2.30E-02	8.30E-03	8.30E-03	7.30E-03	2.20E-02	2.20E-02	1.90E-03	3.80E-03	3.30E-03	3.10E-03	3.10E-03	3.20E-04	5.70E-04	4.90E-04	2.60E-05	5.40E-01
1.5E+01	1.20E-02	6.10E-03	1.60E-02	1.60E-02	4.70E-03	2.40E-03	2.50E-03	6.90E-03	6.70E-03	1.30E-03	5.10E-04	5.10E-04	1.30E-03	1.30E-03	2.20E-04	6.90E-05	6.50E-05	1.70E-05	2.40E-01
2.0E+01	1.00E-02	2.00E-03	1.00E-02	9.70E-03	1.30E-03	2.20E-03	2.30E-03	1.90E-03	1.80E-03	3.80E-04	4.30E-04	4.60E-04	4.00E-04	3.80E-04	6.30E-05	5.50E-05	5.70E-05	5.00E-06	1.30E-01
3.0E+01	7.00E-03	1.20E-03	3.30E-03	2.90E-03	2.50E-04	9.10E-04	8.20E-04	1.80E-04	1.60E-04	5.50E-05	2.00E-04	1.80E-04	3.80E-05	3.40E-05	8.50E-06	2.60E-05	2.30E-05	6.60E-07	4.40E-02
4.0E+01	4.50E-03	1.00E-03	1.00E-03	8.10E-04	2.30E-04	2.90E-04	2.30E-04	2.40E-05	2.10E-05	4.90E-05	6.20E-05	5.00E-05	5.00E-06	4.30E-06	7.70E-06	8.10E-06	6.40E-06	6.00E-07	1.90E-02
6.0E+01	1.80E-03	3.80E-04	1.40E-04	8.80E-05	8.70E-05	3.50E-05	2.30E-05	1.00E-06	8.00E-07	1.90E-05	7.40E-06	5.00E-06	2.10E-07	1.60E-07	3.00E-06	9.70E-07	6.30E-07	2.30E-07	5.30E-03
1.0E+02	3.10E-04	5.30E-05	7.30E-06	3.30E-06	1.10E-05	1.70E-06	8.10E-07	1.50E-08	9.20E-09	2.50E-06	3.60E-07	1.70E-07	3.00E-09	1.90E-09	3.90E-07	4.80E-08	2.20E-08	3.10E-08	7.80E-04
E[keV]:	3.74E+01	5.99E+00	5.62E+00	5.25E+00	1.29E+00	1.14E+00	1.06E+00	7.96E-01	7.81E-01	2.53E-01	1.80E-01	1.80E-01	9.30E-02	9.00E-02	4.00E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	5p-(2)	Total
0.0E+00	2.86E-02	1.31E-01	1.82E-01	2.89E-01	5.23E-01	6.61E-01	9.49E-01	1.14E+00	1.43E+00	1.94E+00	2.26E+00	2.94E+00	3.49E+00	4.32E+00	5.64E+00	6.54E+00	8.43E+00	1.29E+01	1.29E+01
5.0E-02	2.86E-02	1.31E-01	1.82E-01	2.89E-01	5.23E-01	6.61E-01	9.49E-01	1.14E+00	1.43E+00	1.94E+00	2.26E+00	2.94E+00	3.49E+00	4.32E+00	5.63E+00	6.53E+00	8.42E+00	1.27E+01	1.27E+01
1.0E-01	2.86E-02	1.31E-01	1.82E-01	2.89E-01	5.23E-01	6.61E-01	9.49E-01	1.14E+00	1.43E+00	1.94E+00	2.26E+00	2.94E+00	3.49E+00	4.32E+00	5.61E+00	6.51E+00	8.40E+00	1.20E+01	1.20E+01
1.5E-01	2.86E-02	1.31E-01	1.82E-01	2.89E-01	5.23E-01	6.61E-01	9.49E-01	1.14E+00	1.43E+00	1.93E+00	2.26E+00	2.94E+00	3.48E+00	4.32E+00	5.57E+00	6.48E+00	8.36E+00	1.12E+01	1.12E+01
2.0E-01	2.86E-02	1.31E-01	1.82E-01	2.89E-01	5.21E-01	6.59E-01	9.47E-01	1.14E+00	1.43E+00	1.93E+00	2.25E+00	2.93E+00	3.48E+00	4.31E+00	5.52E+00	6.42E+00	8.31E+00	1.03E+01	1.03E+01
3.0E-01	2.86E-02	1.31E-01	1.82E-01	2.89E-01	5.21E-01	6.59E-01	9.46E-01	1.14E+00	1.43E+00	1.92E+00	2.25E+00	2.92E+00	3.47E+00	4.30E+00	5.40E+00	6.29E+00	8.15E+00	8.95E+00	8.95E+00
4.0E-01	2.86E-02	1.31E-01	1.82E-01	2.89E-01	5.21E-01	6.59E-01	9.46E-01	1.14E+00	1.43E+00	1.91E+00	2.24E+00	2.91E+00	3.46E+00	4.29E+00	5.24E+00	6.11E+00	7.91E+00	8.19E+00	8.20E+00
5.0E-01	2.86E-02	1.31E-01	1.81E-01	2.89E-01	5.19E-01	6.57E-01	9.44E-01	1.13E+00	1.42E+00	1.89E+00	2.22E+00	2.89E+00	3.44E+00	4.27E+00	5.07E+00	5.89E+00	7.59E+00	7.76E+00	7.76E+00
6.0E-01	2.86E-02	1.31E-01	1.81E-01	2.89E-01	5.17E-01	6.55E-01	9.42E-01	1.13E+00	1.42E+00	1.87E+00	2.20E+00	2.87E+00	3.42E+00	4.25E+00	4.89E+00	5.66E+00	7.22E+00	7.37E+00	7.37E+00
7.0E-01	2.86E-02	1.30E-01	1.81E-01	2.88E-01	5.14E-01	6.53E-01	9.40E-01	1.13E+00	1.42E+00	1.85E+00	2.18E+00	2.85E+00	3.40E+00	4.23E+00	4.73E+00	5.42E+00	6.81E+00	6.96E+00	6.95E+00
8.0E-01	2.86E-02	1.30E-01	1.81E-01	2.88E-01	5.12E-01	6.51E-01	9.37E-01	1.13E+00	1.42E+00	1.83E+00	2.15E+00	2.82E+00	3.37E+00	4.20E+00	4.58E+00	5.18E+00	6.38E+00	6.51E+00	6.50E+00
1.0E+00	2.86E-02	1.30E-01	1.81E-01	2.88E-01	5.06E-01	6.44E-01	9.31E-01	1.12E+00	1.41E+00	1.78E+00	2.09E+00	2.75E+00	3.29E+00	4.12E+00	4.33E+00	4.76E+00	5.57E+00	5.64E+00	5.64E+00
1.2E+00	2.86E-02	1.29E-01	1.80E-01	2.87E-01	4.99E-01	6.37E-01	9.24E-01	1.11E+00	1.40E+00	1.72E+00	2.03E+00	2.66E+00	3.20E+00	4.03E+00	4.15E+00	4.42E+00	4.92E+00	4.95E+00	4.95E+00
1.4E+00	2.86E-02	1.29E-01	1.80E-01	2.87E-01	4.93E-01	6.31E-01	9.16E-01	1.11E+00	1.39E+00	1.66E+00	1.96E+00	2.56E+00	3.10E+00	3.91E+00	4.00E+00	4.16E+00	4.45E+00	4.46E+00	4.46E+00
1.6E+00	2.86E-02	1.28E-01	1.79E-01	2.86E-01	4.84E-01	6.21E-01	9.06E-01	1.10E+00	1.38E+00	1.61E+00	1.89E+00	2.46E+00	2.98E+00	3.77E+00	3.86E+00	3.95E+00	4.11E+00	4.12E+00	4.12E+00
1.8E+00	2.86E-02	1.27E-01	1.78E-01	2.85E-01	4.75E-01	6.12E-01	8.95E-01	1.09E+00	1.37E+00	1.56E+00	1.82E+00	2.34E+00	2.84E+00	3.61E+00	3.70E+00	3.75E+00	3.85E+00	3.86E+00	3.86E+00
2.0E+00	2.86E-02	1.27E-01	1.77E-01	2.85E-01	4.65E-01	6.01E-01	8.83E-01	1.07E+00	1.36E+00	1.51E+00	1.75E+00	2.22E+00	2.71E+00	3.44E+00	3.52E+00	3.56E+00	3.64E+00	3.64E+00	3.64E+00
2.4E+00	2.84E-02	1.25E-01	1.75E-01	2.83E-01	4.44E-01	5.78E-01	8.55E-01	1.04E+00	1.32E+00	1.43E+00	1.62E+00	1.99E+00	2.42E+00	3.06E+00	3.12E+00	3.16E+00	3.22E+00	3.23E+00	3.23E+00
3.0E+00	2.84E-02	1.21E-01	1.72E-01	2.79E-01	4.10E-01	5.40E-01	8.06E-01	9.94E-01	1.28E+00	1.34E+00	1.46E+00	1.68E+00	2.01E+00	2.49E+00	2.52E+00	2.55E+00	2.60E+00	2.61E+00	2.61E+00
4.0E+00	2.82E-02	1.15E-01	1.65E-01	2.71E-01	3.57E-01	4.73E-01	7.09E-01	8.94E-01	1.18E+00	1.22E+00	1.27E+00	1.35E+00	1.51E+00	1.75E+00	1.76E+00	1.77E+00	1.79E+00	1.79E+00	1.79E+00
5.0E+00	2.80E-02	1.07E-01	1.57E-01	2.62E-01	3.14E-01	4.12E-01	6.05E-01	7.82E-01	1.05E+00	1.09E+00	1.11E+00	1.15E+00	1.22E+00	1.32E+00	1.33E+00	1.33E+00	1.34E+00	1.34E+00	1.34E+00
6.0E+00	2.78E-02	9.78E-02	1.47E-01	2.51E-01	2.83E-01	3.59E-01	5.06E-01	6.70E-01	9.19E-01	9.48E-01	9.65E-01	1.00E+00	1.03E+00	1.07E+00	1.07E+00	1.08E+00	1.08E+00	1.08E+00	1.08E+00
7.0E+00	2.74E-02	8.88E-02	1.37E-01	2.39E-01	2.60E-01	3.16E-01	4.21E-01	5.68E-01	7.90E-01	8.07E-01	8.24E-01	8.59E-01	8.74E-01	8.96E-01	9.00E-01	9.02E-01	9.07E-01	9.07E-01	9.07E-01
8.0E+00	2.70E-02	7.98E-02	1.27E-01	2.26E-01	2.44E-01	2.82E-01	3.53E-01	4.81E-01	6.72E-01	6.81E-01	6.95E-01	7.24E-01	7.37E-01	7.56E-01	7.58E-01	7.60E-01	7.64E-01	7.64E-01	7.64E-01
1.0E+01	2.60E-02	6.40E-02	1.08E-01	2.00E-01	2.17E-01	2.33E-01	2.62E-01	3.50E-01	4.82E-01	4.86E-01	4.94E-01	5.07E-01	5.19E-01	5.38E-01	5.39E-01	5.40E-01	5.42E-01	5.42E-01	5.40E-01
1.5E+01	2.40E-02	3.62E-02	6.82E-02	1.32E-01	1.42E-01	1.46E-01	1.56E-01	1.84E-01	2.24E-01	2.27E-01	2.28E-01	2.30E-01	2.35E-01	2.43E-01	2.43E-01	2.43E-01	2.44E-01	2.44E-01	2.40E-01
2.0E+01	2.00E-02	2.40E-02	4.40E-02	8.28E-02	8.54E-02	8.98E-02	9.90E-02	1.07E-01	1.17E-01	1.18E-01	1.19E-01	1.21E-01	1.22E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.30E-01
3.0E+01	1.40E-02	1.64E-02	2.30E-02	3.46E-02	3.51E-02	3.69E-02	4.02E-02	4.09E-02	4.19E-02	4.20E-02	4.24E-02	4.31E-02	4.33E-02	4.35E-02	4.35E-02	4.35E-02	4.36E-02	4.36E-02	4.40E-02
4.0E+01	9.00E-03	1.10E-02	1.30E-02	1.62E-02	1.67E-02	1.73E-02	1.82E-02	1.83E-02	1.84E-02	1.85E-02	1.86E-02	1.88E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.89E-02	1.90E-02
6.0E+01	3.60E-03	4.36E-03	4.64E-03	4.99E-03	5.17E-03	5.24E-03	5.33E-03	5.33E-03	5.34E-03	5.37E-03	5.39E-03	5.41E-03	5.41E-03	5.41E-03	5.42E-03	5.42E-03	5.42E-03	5.42E-03	5.30E-03
1.0E+02	6.20E-04	7.26E-04	7.41E-04	7.54E-04	7.76E-04	7.79E-04	7.82E-04	7.82E-04	7.83E-04	7.88E-04	7.88E-04	7.89E-04	7.89E-04	7.89E-04	7.90E-04	7.90E-04	7.90E-04	7.90E-04	7.80E-04
E[keV]:	3.74E+01	5.99E+00	5.62E+00	5.25E+00	1.29E+00	1.14E+00	1.06E+00	7.96E-01	7.81E-01	2.53E-01	1.80E-01	1.80E-01	9.30E-02	9.00E-02	4.00E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																			
0.0E+00	7.26E+00	8.57E+00	9.40E+00	9.95E+00	1.10E+01	1.15E+01	1.18E+01	1.19E+01	1.22E+01	1.24E+01	1.26E+01	1.27E+01	1.28E+01	1.29E+01	1.29E+01	1.29E+01			
5.0E-02	7.04E+00	8.34E+00	9.18E+00	9.72E+00	1.07E+01	1.12E+01	1.15E+01	1.17E+01	1.20E+01	1.21E+01	1.24E+01	1.25E+01	1.25E+01	1.26E+01	1.27E+01	1.27E+01			
1.0E-01	6.44E+00	7.72E+00	8.56E+00	9.10E+00	1.01E+01	1.06E+01	1.09E+01	1.11E+01	1.14E+01	1.15E+01	1.18E+01	1.19E+01	1.19E+01	1.20E+01	1.20E+01	1.20E+01			
1.5E-01	5.63E+00	6.89E+00	7.72E+00	8.27E+00	9.27E+00	9.78E+00	1.01E+01	1.03E+01	1.05E+01	1.07E+01	1.09E+01	1.10E+01	1.11E+01	1.12E+01	1.12E+01	1.12E+01			
2.0E-01	4.81E+00	6.02E+00	6.85E+00	7.40E+00	8.40E+00	8.90E+00	9.19E+00	9.38E+00	9.67E+00	9.81E+00	1.00E+01	1.01E+01	1.02E+01	1.03E+01	1.03E+01	1.03E+01			
3.0E-01	3.55E+00	4.64E+00	5.48E+00	6.03E+00	7.03E+00	7.52E+00	7.81E+00	8.00E+00	8.29E+00	8.43E+00	8.66E+00	8.77E+00	8.82E+00	8.92E+00	8.95E+00	8.95E+00			
4.0E-01	2.95E+00	3.90E+00	4.74E+00	5.29E+00	6.29E+00	6.77E+00	7.06E+00	7.25E+00	7.54E+00	7.67E+00	7.91E+00	8.01E+00	8.06E+00	8.17E+00	8.20E+00	8.20E+00			
5.0E-01	2.69E+00	3.48E+00	4.32E+00	4.87E+00	5.87E+00	6.34E+00	6.63E+00	6.82E+00	7.10E+00	7.24E+00	7.47E+00	7.58E+00	7.63E+00	7.73E+00	7.76E+00	7.76E+00			
6.0E-01	2.48E+00	3.12E+00	3.95E+00	4.50E+00	5.50E+00	5.95E+00	6.24E+00	6.43E+00	6.72E+00	6.86E+00	7.09E+00	7.19E+00	7.24E+00	7.35E+00	7.37E+00	7.37E+00			
7.0E-01	2.23E+00	2.73E+00	3.56E+00	4.11E+00	5.11E+00	5.54E+00	5.83E+00	6.02E+00	6.30E+00	6.44E+00	6.67E+00	6.78E+00	6.83E+00	6.93E+00	6.96E+00	6.95E+00			
8.0E-01	1.93E+00	2.31E+00	3.14E+00	3.69E+00	4.68E+00	5.09E+00	5.38E+00	5.57E+00	5.86E+00	6.00E+00	6.22E+00	6.33E+00	6.38E+00	6.48E+00	6.51E+00	6.50E+00			
1.0E+00	1.31E+00	1.52E+00	2.35E+00	2.89E+00	3.87E+00	4.23E+00	4.52E+00	4.71E+00	5.00E+00	5.13E+00	5.35E+00	5.46E+00	5.51E+00	5.61E+00	5.64E+00	5.64E+00			
1.2E+00	7.99E-01	9.24E-01	1.75E+00	2.29E+00	3.23E+00	3.55E+00	3.84E+00	4.03E+00	4.31E+00	4.45E+00	4.66E+00	4.77E+00	4.82E+00	4.92E+00	4.95E+00	4.95E+00			
1.4E+00	4.55E-01	5.48E-01	1.36E+00	1.89E+00	2.79E+00	3.06E+00	3.35E+00	3.54E+00	3.83E+00	3.97E+00	4.17E+00	4.28E+00	4.33E+00	4.43E+00	4.46E+00	4.46E+00			
1.6E+00	2.56E-01	3.44E-01	1.14E+00	1.66E+00	2.51E+00	2.73E+00	3.02E+00	3.21E+00	3.50E+00	3.63E+00	3.83E+00	3.94E+00	3.99E+00	4.09E+00	4.12E+00	4.12E+00			
1.8E+00	1.58E-01	2.46E-01	1.01E+00	1.52E+00	2.30E+00	2.48E+00	2.77E+00	2.96E+00	3.25E+00	3.38E+00	3.57E+00	3.68E+00	3.73E+00	3.83E+00	3.86E+00	3.86E+00			
2.0E+00	1.19E-01	2.03E-01	9.35E-01	1.42E+00	2.14E+00	2.28E+00	2.57E+00	2.76E+00	3.04E+00	3.18E+00	3.36E+00	3.47E+00	3.52E+00	3.62E+00	3.64E+00	3.64E+00			
2.4E+00	1.05E-01	1.70E-01	8.12E-01	1.24E+00	1.80E+00	1.90E+00	2.18E+00	2.37E+00	2.65E+00	2.79E+00	2.95E+00	3.05E+00	3.11E+00	3.20E+00	3.23E+00	3.23E+00			
3.0E+00	9.09E-02	1.21E-01	6.01E-01	9.24E-01	1.27E+00	1.33E+00	1.61E+00	1.80E+00	2.07E+00	2.20E+00	2.33E+00	2.44E+00	2.49E+00	2.58E+00	2.61E+00	2.61E+00			
4.0E+00	3.81E-02	4.66E-02	2.84E-01	4.47E-01	5.74E-01	6.18E-01	8.99E-01	1.08E+00	1.32E+00	1.44E+00	1.52E+00	1.63E+00	1.68E+00	1.76E+00	1.79E+00	1.79E+00			
5.0E+00	1.24E-02	1.97E-02	1.17E-01	1.84E-01	2.45E-01	2.86E-01	5.55E-01	7.33E-01	9.26E-01	1.02E+00	1.08E+00	1.18E+00	1.23E+00	1.31E+00	1.34E+00	1.34E+00			
6.0E+00	7.37E-03	1.34E-02	5.29E-02	8.05E-02	1.34E-01	1.63E-01	4.12E-01	5.76E-01	7.23E-01	7.99E-01	8.31E-01	9.35E-01	9.84E-01	1.05E+00	1.08E+00	1.08E+00			
7.0E+00	6.98E-03	1.07E-02	3.30E-02	4.82E-02	1.00E-01	1.17E-01	3.39E-01	4.86E-01	5.91E-01	6.47E-01	6.68E-01	7.70E-01	8.18E-01	8.80E-01	9.07E-01	9.07E-01			
8.0E+00	6.13E-03	8.01E-03	2.74E-02	4.02E-02	8.35E-02	9.20E-02	2.83E-01	4.11E-01	4.82E-01	5.20E-01	5.38E-01	6.37E-01	6.84E-01	7.37E-01	7.64E-01	7.64E-01			
1.0E+01	3.15E-03	3.79E-03	2.24E-02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56Ba
Σi Ji(Q)
Q

Z=57

Compton profiles for the single orbitals and binding energies

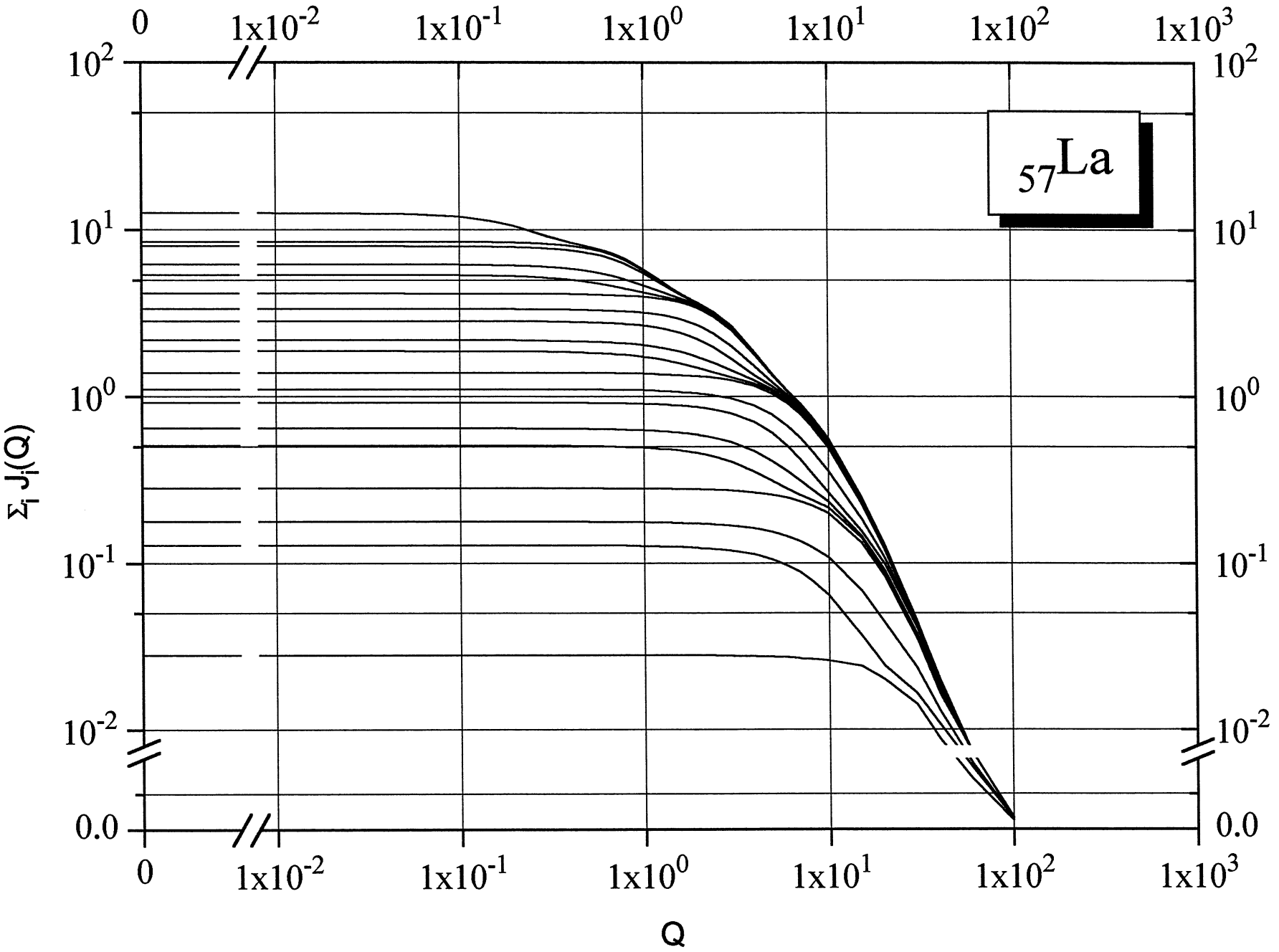
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	5p-(1)	5p+(2)	Total
0.0E+00	1.40E-02	5.01E-02	2.48E-02	2.63E-02	1.14E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.46E-01	1.58E-01	1.63E-01	1.31E-01	1.33E-01	6.16E-01	4.24E-01	4.40E-01	5.09E-01	2.07E+00	1.27E+01
5.0E-02	1.40E-02	5.01E-02	2.48E-02	2.63E-02	1.14E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.46E-01	1.58E-01	1.63E-01	1.31E-01	1.33E-01	6.13E-01	4.24E-01	4.40E-01	5.09E-01	1.98E+00	1.25E+01
1.0E-01	1.40E-02	5.01E-02	2.48E-02	2.63E-02	1.14E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.45E-01	1.58E-01	1.63E-01	1.31E-01	1.33E-01	6.04E-01	4.24E-01	4.40E-01	5.09E-01	1.73E+00	1.20E+01
1.5E-01	1.40E-02	5.01E-02	2.48E-02	2.63E-02	1.14E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.44E-01	1.58E-01	1.63E-01	1.31E-01	1.33E-01	5.91E-01	4.24E-01	4.40E-01	5.09E-01	1.39E+00	1.13E+01
2.0E-01	1.40E-02	5.01E-02	2.48E-02	2.63E-02	1.14E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.43E-01	1.58E-01	1.63E-01	1.31E-01	1.33E-01	5.72E-01	4.23E-01	4.39E-01	5.09E-01	1.03E+00	1.05E+01
3.0E-01	1.40E-02	5.00E-02	2.48E-02	2.63E-02	1.13E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.39E-01	1.58E-01	1.63E-01	1.31E-01	1.33E-01	5.22E-01	4.19E-01	4.34E-01	5.04E-01	4.57E-01	9.20E+00
4.0E-01	1.40E-02	5.00E-02	2.48E-02	2.63E-02	1.13E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.34E-01	1.57E-01	1.63E-01	1.31E-01	1.33E-01	4.60E-01	4.10E-01	4.23E-01	4.88E-01	1.75E-01	8.42E+00
5.0E-01	1.40E-02	5.00E-02	2.48E-02	2.63E-02	1.12E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.27E-01	1.57E-01	1.63E-01	1.31E-01	1.33E-01	3.92E-01	3.93E-01	4.04E-01	4.57E-01	8.80E-02	7.95E+00
6.0E-01	1.40E-02	4.99E-02	2.48E-02	2.63E-02	1.11E-01	6.75E-02	7.01E-02	4.63E-02	4.69E-02	2.20E-01	1.57E-01	1.63E-01	1.31E-01	1.33E-01	3.23E-01	3.69E-01	3.77E-01	4.12E-01	7.48E-02	7.57E+00
7.0E-01	1.40E-02	4.98E-02	2.48E-02	2.63E-02	1.11E-01	6.74E-02	7.01E-02	4.63E-02	4.69E-02	2.11E-01	1.56E-01	1.62E-01	1.31E-01	1.33E-01	2.58E-01	3.38E-01	3.42E-01	3.58E-01	7.40E-02	7.16E+00
8.0E-01	1.40E-02	4.98E-02	2.48E-02	2.63E-02	1.09E-01	6.74E-02	7.00E-02	4.63E-02	4.69E-02	2.02E-01	1.56E-01	1.61E-01	1.31E-01	1.33E-01	2.01E-01	3.02E-01	3.02E-01	3.01E-01	6.79E-02	6.71E+00
1.0E+00	1.40E-02	4.96E-02	2.48E-02	2.63E-02	1.07E-01	6.74E-02	7.00E-02	4.63E-02	4.69E-02	1.81E-01	1.54E-01	1.58E-01	1.31E-01	1.32E-01	1.16E-01	2.23E-01	2.17E-01	1.98E-01	4.34E-02	5.83E+00
1.2E+00	1.40E-02	4.93E-02	2.48E-02	2.63E-02	1.04E-01	6.73E-02	6.99E-02	4.63E-02	4.69E-02	1.58E-01	1.50E-01	1.54E-01	1.30E-01	1.31E-01	6.94E-02	1.50E-01	1.41E-01	1.21E-01	2.17E-02	5.08E+00
1.4E+00	1.40E-02	4.91E-02	2.48E-02	2.63E-02	1.01E-01	6.72E-02	6.98E-02	4.63E-02	4.69E-02	1.35E-01	1.44E-01	1.48E-01	1.28E-01	1.30E-01	4.96E-02	9.33E-02	8.46E-02	6.95E-02	9.93E-03	4.52E+00
1.6E+00	1.40E-02	4.88E-02	2.48E-02	2.63E-02	9.72E-02	6.71E-02	6.96E-02	4.63E-02	4.69E-02	1.14E-01	1.37E-01	1.40E-01	1.26E-01	1.27E-01	4.42E-02	5.53E-02	4.90E-02	3.86E-02	5.30E-03	4.13E+00
1.8E+00	1.40E-02	4.84E-02	2.48E-02	2.62E-02	9.33E-02	6.68E-02	6.93E-02	4.63E-02	4.69E-02	9.36E-02	1.29E-01	1.30E-01	1.23E-01	1.24E-01	4.37E-02	3.33E-02	2.96E-02	2.10E-02	4.07E-03	3.85E+00
2.0E+00	1.40E-02	4.81E-02	2.48E-02	2.62E-02	8.90E-02	6.65E-02	6.89E-02	4.63E-02	4.69E-02	7.61E-02	1.19E-01	1.19E-01	1.18E-01	1.19E-01	4.30E-02	2.23E-02	2.08E-02	1.18E-02	3.94E-03	3.62E+00
2.4E+00	1.40E-02	4.72E-02	2.48E-02	2.62E-02	8.00E-02	6.56E-02	6.79E-02	4.63E-02	4.68E-02	4.93E-02	9.69E-02	9.50E-02	1.06E-01	1.07E-01	3.55E-02	1.67E-02	1.72E-02	5.40E-03	3.62E-03	3.23E+00
3.0E+00	1.39E-02	4.57E-02	2.48E-02	2.62E-02	6.58E-02	6.34E-02	6.53E-02	4.61E-02	4.67E-02	2.83E-02	6.34E-02	6.00E-02	8.29E-02	8.24E-02	1.83E-02	1.59E-02	1.59E-02	4.55E-03	2.02E-03	2.65E+00
4.0E+00	1.38E-02	4.25E-02	2.47E-02	2.61E-02	4.38E-02	5.73E-02	5.83E-02	4.53E-02	4.58E-02	2.19E-02	2.51E-02	2.25E-02	4.43E-02	4.32E-02	4.89E-03	8.29E-03	7.37E-03	3.52E-03	4.78E-04	1.84E+00
5.0E+00	1.37E-02	3.89E-02	2.45E-02	2.59E-02	2.70E-02	4.86E-02	4.85E-02	4.36E-02	4.40E-02	2.07E-02	1.10E-02	1.05E-02	1.95E-02	1.86E-02	3.85E-03	2.77E-03	2.35E-03	1.75E-03	3.24E-04	1.36E+00
6.0E+00	1.36E-02	3.48E-02	2.43E-02	2.56E-02	1.63E-02	3.85E-02	3.75E-02	4.07E-02	4.10E-02	1.53E-02	8.68E-03	9.06E-03	8.06E-03	7.67E-03	3.36E-03	1.30E-03	1.27E-03	7.12E-04	2.91E-04	1.09E+00
7.0E+00	1.34E-02	3.07E-02	2.39E-02	2.51E-02	1.08E-02	2.87E-02	2.72E-02	3.68E-02	3.69E-02	9.13E-03	8.56E-03	8.80E-03	4.17E-03	4.06E-03	2.17E-03	1.18E-03	1.22E-03	3.13E-04	1.92E-04	9.16E-01
8.0E+00	1.33E-02	2.65E-02	2.33E-02	2.44E-02	8.68E-03	2.02E-02	1.86E-02	3.22E-02	3.22E-02	4.85E-03	7.62E-03	7.49E-03	3.28E-03	3.30E-03	1.15E-03	1.12E-03	1.11E-03	2.05E-04	1.02E-04	7.75E-01
1.0E+01	1.30E-02	1.90E-02	2.20E-02	2.30E-02	8.10E-03	8.90E-03	7.80E-03	2.30E-02	2.30E-02	2.00E-03	4.20E-03	3.79E-03	3.20E-03	3.70E-04	6.70E-04	6.00E-04	1.90E-04	3.20E-05	5.50E-01	
1.5E+01	1.20E-02	6.40E-03	1.60E-02	1.60E-02	4.90E-03	2.30E-03	2.50E-03	7.40E-03	7.10E-03	1.40E-03	5.50E-04	5.30E-04	1.50E-03	1.40E-03	2.50E-04	8.20E-05	7.60E-05	9.60E-05	2.10E-05	2.50E-01
2.0E+01	1.00E-02	2.10E-03	1.00E-02	9.90E-03	1.40E-03	2.20E-03	2.30E-03	2.10E-03	2.00E-03	4.30E-04	4.40E-04	4.70E-04	4.60E-04	4.40E-04	7.70E-05	6.00E-06	6.40E-05	3.00E-05	6.60E-06	1.30E-01
3.0E+01	7.10E-03	1.20E-03	3.50E-03	3.00E-03	2.50E-04	9.70E-04	8.70E-04	2.10E-04	1.90E-04	5.60E-05	2.10E-04	1.90E-04	4.50E-05	4.10E-05	9.30E-06	3.00E-05	2.70E-05	2.90E-06	7.80E-07	4.50E-02
4.0E+01	4.40E-03	1.00E-03	1.10E-03	8.80E-04	2.30E-04	3.10E-04	2.50E-04	2.80E-05	2.40E-05	5.10E-05	6.90E-05	5.60E-05	6.10E-06	5.20E-06	8.40E-06	9.70E-06	7.80E-06	3.90E-07	7.00E-07	2.00E-02
6.0E+01	1.80E-03	4.00E-04	1.50E-04	9.70E-05	9.20E-05	3.90E-05	2.60E-05	1.20E-06	9.40E-07	2.10E-05	8.50E-06	5.70E-06	2.50E-07	2.00E-07	3.40E-06	1.20E-06	7.90E-07	1.60E-08	2.90E-07	5.60E-03
1.0E+02	3.30E-04	5.80E-05	8.20E-06	3.70E-06	1.30E-05	2.00E-06	9.20E-07	1.80E-08	1.10E-08	2.80E-06	4.30E-07	2.00E-07	3.70E-09	2.30E-09	4.60E-07	6.00E-08	2.80E-08	2.40E-10	3.90E-08	8.40E-04
E[keV]:	3.89E+01	6.27E+00	5.89E+00	5.48E+00	1.36E+00	1.20E+00	1.12E+00	8.52E-01	8.35E-01	2.71E-01	1.96E-01	1.96E-01	1.03E-01	1.03E-01	3.60E-02	1.80E-02	1.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(2)	4f+(2)	5s+(4)	5p-(1)	5p+(2)	Total
0.0E+00	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.11E-01	6.46E-01	9.26E-01	1.11E+00	1.39E+00	1.89E+00	2.20E+00	2.85E+00	3.38E+00	4.18E+00	5.41E+00	6.26E+00	8.01E+00	8.52E+00	1.27E+01	1.27E+01
5.0E-02	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.11E-01	6.46E-01	9.26E-01	1.11E+00	1.39E+00	1.89E+00	2.20E+00	2.85E+00	3.38E+00	4.18E+00	5.40E+00	6.25E+00	8.01E+00	8.52E+00	1.25E+01	1.25E+01
1.0E-01	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.11E-01	6.46E-01	9.26E-01	1.11E+00	1.39E+00	1.88E+00	2.20E+00	2.85E+00	3.38E+00	4.17E+00	5.38E+00	6.23E+00	7.99E+00	8.50E+00	1.20E+01	1.20E+01
1.5E-01	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.11E-01	6.46E-01	9.26E-01	1.11E+00	1.39E+00	1.88E+00	2.20E+00	2.85E+00	3.37E+00	4.17E+00	5.35E+00	6.20E+00	7.96E+00	8.47E+00	1.13E+01	1.13E+01
2.0E-01	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.11E-01	6.46E-01	9.26E-01	1.11E+00	1.39E+00	1.88E+00	2.20E+00	2.85E+00	3.37E+00	4.17E+00	5.31E+00	6.16E+00	7.92E+00	8.42E+00	1.05E+01	1.05E+01
3.0E-01	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.09E-01	6.44E-01	9.24E-01	1.11E+00	1.39E+00	1.87E+00	2.18E+00	2.84E+00	3.36E+00	4.16E+00	5.20E+00	6.04E+00	7.78E+00	8.28E+00	9.19E+00	9.20E+00
4.0E-01	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.09E-01	6.44E-01	9.24E-01	1.11E+00	1.39E+00	1.86E+00	2.17E+00	2.82E+00	3.35E+00	4.15E+00	5.07E+00	5.89E+00	7.58E+00	8.07E+00	8.42E+00	8.42E+00
5.0E-01	2.80E-02	1.28E-01	1.78E-01	2.83E-01	5.07E-01	6.42E-01	9.22E-01	1.11E+00	1.39E+00	1.84E+00	2.16E+00	2.81E+00	3.33E+00	4.13E+00	4.91E+00	5.70E+00	7.32E+00	7.77E+00	7.95E+00	7.95E+00
6.0E-01	2.80E-02	1.28E-01	1.77E-01	2.83E-01	5.05E-01	6.40E-01	9.20E-01	1.11E+00	1.39E+00	1.83E+00	2.14E+00	2.79E+00	3.32E+00	4.11E+00	4.76E+00	5.50E+00	7.01E+00	7.42E+00	7.57E+00	7.57E+00
7.0E-01	2.80E-02	1.28E-01	1.77E-01	2.82E-01	5.04E-01	6.39E-01	9.20E-01	1.10E+00	1.39E+00	1.81E+00	2.12E+00	2.77E+00	3.29E+00	4.09E+00	4.61E+00	5.26E+00	6.65E+00	7.01E+00	7.16E+00	7.16E+00
8.0E-01	2.80E-02	1.28E-01	1.77E-01	2.82E-01	5.00E-01	6.35E-01	9.15E-01	1.10E+00	1.38E+00	1.79E+00	2.10E+00	2.74E+00	3.27E+00	4.06E+00	4.47E+00	5.07E+00	6.28E+00	6.58E+00	6.71E+00	6.71E+00
1.0E+00	2.80E-02	1.27E-01	1.77E-01	2.81E-01	4.96E-01	6.31E-01	9.11E-01	1.10E+00	1.38E+00	1.74E+00	2.05E+00	2.68E+00	3.20E+00	4.00E+00	4.23E+00	4.67E+00	5.54E+00	5.74E+00	5.83E+00	5.83E+00
1.2E+00	2.80E-02	1.27E-01	1.76E-01	2.81E-01	4.89E-01	6.24E-01	9.04E-01	1.09E+00	1.37E+00	1.69E+00	1.99E+00	2.60E+00	3.12E+00	3.91E+00	4.05E+00	4.35E+00	4.91E+00	5.03E+00	5.08E+00	5.08E+00
1.4E+00	2.80E-02	1.26E-01	1.76E-01	2.81E-01	4.83E-01	6.17E-01	8.97E-01	1.08E+00	1.36E+00	1.63E+00	1.92E+00	2.51E+00	3.03E+00	3.81E+00	3.90E+00	4.09E+00	4.43E+00	4.50E+00	4.52E+00	4.52E+00
1.6E+00	2.80E-02	1.26E-01	1.75E-01	2.80E-01	4.75E-01	6.09E-01	8.87E-01	1.07E+00	1.35E+00	1.58E+00	1.86E+00	2.42E+00	2.92E+00	3.68E+00	3.77E+00	3.88E+00	4.08E+00	4.12E+00	4.13E+00	4.13E+00
1.8E+00	2.80E-02	1.25E-01	1.74E-01	2.79E-01	4.66E-01	5.99E-01	8.77E-01	1.06E+00	1.34E+00	1.53E+00	1.79E+00	2.31E+00	2.80E+00	3.54E+00	3.63E+00	3.70E+00	3.82E+00	3.84E+00	3.85E+00	3.85E+00
2.0E+00	2.80E-02	1.24E-01	1.74E-01	2.79E-01	4.57E-01	5.90E-01	8.65E-01	1.05E+00	1.33E+00	1.48E+00	1.72E+00	2.20E+00	2.67E+00	3.38E+00	3.47E+00	3.51E+00	3.60E+00	3.61E+00	3.62E+00	3.62E+00
2.4E+00	2.80E-02	1.22E-01	1.72E-01	2.77E-01	4.37E-01	5.68E-01	8.40E-01	1.02E+00	1.31E+00	1.40E+00	1.60E+00	1.98E+00	2.40E+00	3.04E+00	3.12E+00	3.15E+00	3.22E+00	3.22E+00	3.23E+00	3.23E+00
3.0E+00	2.78E-02	1.19E-01	1.69E-01	2.74E-01	4.05E-01	5.32E-01	7.93E-01	9.78E-01	1.26E+00	1.31E+00	1.44E+00	1.68E+00	2.01E+00	2.51E+00	2.54E+00	2.58E+00	2.64E+00	2.64E+00	2.65E+00	2.65E+00
4.0E+00	2.76E-02	1.13E-01	1.62E-01	2.66E-01	3.54E-01	4.69E-01	7.02E-01	8.83E-01	1.16E+00	1.20E+00	1.25E+00	1.34E+00	1.52E+00	1.78E+00	1.79E+00	1.80E+00	1.83E+00	1.84E+00	1.84E+00	1.84E+00
5.0E+00	2.74E-02	1.05E-01	1.54E-01	2.58E-01	3.12E-01	4.09E-01	6.03E-01	7.77E-01	1.04E+00	1.08E+00	1.10E+00	1.15E+00	1.22E+00	1.34E+00	1.34E+00	1.35E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00
6.0E+00	2.72E-02	9.68E-02	1.45E-01	2.48E-01	2.80E-01	3.57E-01	5.07E-01	6.70E-01	9.16E-01	9.47E-01	9.64E-01	1.00E+00	1.03E+00	1.09E+00	1.09E+00	1.09E+00	1.09E+00	1.09E+00	1.09E+00	1.09E+00
7.0E+00	2.68E-02	8.92E-02	1.36E-01	2.36E-01	2.58E-01	3.15E-01	4.24E-01	5.71E-01	7.93E-01	8.11E-01	8.20E-01	8.63E-01	8.80E-01	9.04E-01	9.09E-01	9.11E-01	9.16E-01	9.16E-01	9.17E-01	9.16E-01
8.0E+00	2.66E-02	7.96E-02	1.26E-01	2.24E-01	2.41E-01	2.82E-01	3.56E-01	4.85E-01	6.78E-01	6.88E-01	7.03E-01	7.33E-01	7.46E-01	7.66E-01	7.68E-01	7.70E-01	7.75E-01	7.75E-01	7.75E-01	7.75E-01
1.0E+01	2.60E-02	6.40E-02	1.08E-01	2.00E-01	2.16E-01	2.34E-01	2.65E-01	3.57E-01	4.95E-01	4.99E-01	5.08E-01	5.22E-01	5.35E-01	5.54E-01	5.55E-01	5.56E-01	5.59E-01	5.59E-01	5.59E-01	5.50E-01
1.5E+01	2.40E-02	3.68E-02	6.88E-02	1.33E-01	1.43E-01	1.47E-01	1.57E-01	1.87E-01	2.29E-01	2.32E-01	2.33E-01	2.35E-01	2.41E-01	2.50E-01	2.50E-01	2.50E-01	2.51E-01	2.51E-01	2.51E-01	2.50E-01
2.0E+01	2.00E-02	2.42E-02	4.42E-02	8.38E-02	8.66E-02	9.10E-02	1.00E-01	1.09E-01	1.21E-01	1.21E-01	1.22E-01	1.24E-01	1.26E-01	1.29E-01	1.29E-01	1.29E-01	1.29E-01	1.29E-01	1.29E-01	1.30E-01
3.0E+01	1.42E-02	1.66E-02	2.36E-02	3.56E-02	3.61E-02	3.80E-02	4.15E-02	4.24E-02	4.35E-02	4.36E-02	4.40E-02	4.48E-02	4.50E-02	4.52E-02	4.52E-02	4.53E-02	4.54E-02	4.54E-02	4.54E-02	4.50E-02
4.0E+01	8.80E-03	1.08E-02	1.30E-02	1.65E-02	1.70E-02	1.76E-02	1.86E-02	1.87E-02	1.89E-02	1.90E-02	1.91E-02	1.93E-02	1.93E-02	1.94E-02	1.94E-02	1.94E-02	1.94E-02	1.94E-02	1.94E-02	2.00E-02
6.0E+01	3.60E-03	4.40E-03	4.70E-03	5.09E-03	5.27E-03	5.35E-03	5.45E-03	5.46E-03	5.46E-03	5.51E-03	5.52E-03	5.55E-03	5.55E-03	5.55E-03	5.56E-03	5.56E-03	5.56E-03	5.56E-03	5.56E-03	5.60E-03
1.0E+02	6.60E-04	7.76E-04	7.92E-04	8.07E-04	8.33E-04	8.37E-04	8.41E-04	8.41E-04	8.41E-04	8.47E-04	8.47E-04	8.48E-04	8.48E-04	8.48E-04	8.49E-04	8.49E-04	8.49E-04	8.49E-04	8.50E-04	8.40E-04
E[keV]:	3.89E+01	6.27E+00	5.89E+00	5.48E+00	1.36E+00	1.20E+00	1.12E+00	8.52E-01	8.35E-01	2.71E-01	1.96E-01	1.96E-01	1.03E-01	1.03E-01	3.60E-02	1.80E-02	1.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																				
0.0E+00	4.65E+00	7.26E+00	8.49E+00	9.81E+00	1.08E+01	1.13E+01	1.16E+01	1.17E+01	1.20E+01	1.22E+01	1.24E+01	1.25E+01	1.25E+01	1.26E+01	1.27E+01	1.27E+01				
5.0E-02	4.47E+00	7.08E+00	8.30E+00	9.63E+00	1.06E+01	1.11E+01	1.14E+01	1.16E+01	1.18E+01	1.20E+01	1.22E+01	1.23E+01	1.23E+01	1.25E+01	1.25E+01	1.25E+01				
1.0E-01	3.97E+00	6.58E+00	7.79E+00	9.11E+00	1.01E+01	1.06E+01	1.09E+01	1.10E+01	1.13E+01	1.14E+01	1.17E+01	1.18E+01	1.18E+01	1.19E+01	1.20E+01	1.20E+01				
1.5E-01	3.29E+00	5.90E+00	7.08E+00	8.40E+00	9.37E+00	9.86E+00	1.01E+01	1.03E+01	1.06E+01	1.07E+01	1.10E+01	1.11E+01	1.11E+01	1.12E+01	1.13E+01	1.13E+01				
2.0E-01	2.57E+00	5.17E+00	6.32E+00	7.64E+00	8.60E+00	9.09E+00	9.37E+00	9.56E+00	9.84E+00	9.97E+00	1.02E+01	1.03E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01				
3.0E-01	1.42E+00	3.99E+00	5.04E+00	6.36E+00	7.33E+00	7.80E+00	8.09E+00	8.27E+00	8.55E+00	8.69E+00	8.91E+00	9.02E+00	9.07E+00	9.17E+00	9.19E+00	9.20E+00				
4.0E-01	8.38E-01	3.35E+00	4.27E+00	5.59E+00	6.56E+00	7.03E+00	7.31E+00	7.49E+00	7.77E+00	7.91E+00	8.13E+00	8.24E+00	8.29E+00	8.39E+00	8.42E+00	8.42E+00				
5.0E-01	6.33E-01	3.03E+00	3.82E+00	5.14E+00	6.11E+00	6.56E+00	6.84E+00	7.03E+00	7.31E+00	7.44E+00	7.67E+00	7.77E+00	7.82E+00	7.92E+00	7.95E+00	7.95E+00				
6.0E-01	5.62E-01	2.81E+00	3.45E+00	4.78E+00	5.74E+00	6.18E+00	6.46E+00	6.65E+00	6.93E+00	7.06E+00	7.29E+00	7.39E+00	7.44E+00	7.54E+00	7.57E+00	7.57E+00				
7.0E-01	5.06E-01	2.55E+00	3.07E+00	4.39E+00	5.35E+00	5.77E+00	6.05E+00	6.24E+00	6.52E+00	6.65E+00	6.87E+00	6.98E+00	7.03E+00	7.13E+00	7.16E+00	7.16E+00				
8.0E-01	4.37E-01	2.25E+00	2.65E+00	3.97E+00	4.93E+00	5.33E+00	5.61E+00	5.80E+00	6.08E+00	6.21E+00	6.43E+00	6.54E+00	6.59E+00	6.69E+00	6.71E+00	6.71E+00				
1.0E+00	2.85E-01	1.60E+00	1.83E+00	3.15E+00	4.09E+00	4.45E+00	4.73E+00	4.92E+00	5.20E+00	5.33E+00	5.54E+00	5.65E+00	5.70E+00	5.80E+00	5.83E+00	5.83E+00				
1.2E+00	1.64E-01	1.03E+00	1.17E+00	2.47E+00	3.39E+00	3.71E+00	3.99E+00	4.17E+00	4.45E+00	4.59E+00	4.79E+00	4.90E+00	4.95E+00	5.05E+00	5.08E+00	5.08E+00				
1.4E+00	8.94E-02	6.14E-01	7.14E-01	2.01E+00	2.89E+00	3.16E+00	3.44E+00	3.62E+00	3.90E+00	4.04E+00	4.24E+00	4.34E+00	4.39E+00	4.49E+00	4.52E+00	4.52E+00				
1.6E+00	4.92E-02	3.56E-01	4.44E-01	1.71E+00	2.54E+00	2.77E+00	3.05E+00	3.24E+00	3.52E+00	3.65E+00	3.85E+00	3.95E+00	4.00E+00	4.10E+00	4.13E+00	4.13E+00				
1.8E+00	2.91E-02	2.14E-01	3.02E-01	1.54E+00	2.32E+00	2.50E+00	2.78E+00	2.97E+00	3.25E+00	3.38E+00	3.57E+00	3.67E+00	3.72E+00	3.82E+00	3.85E+00	3.85E+00				
2.0E+00	1.97E-02	1.47E-01	2.33E-01	1.42E+00	2.13E+00	2.29E+00	2.57E+00	2.75E+00	3.03E+00	3.16E+00	3.34E+00	3.44E+00	3.49E+00	3.59E+00	3.62E+00	3.62E+00				
2.4E+00	1.26E-02	1.15E-01	1.86E-01	1.25E+00	1.83E+00	1.92E+00	2.21E+00	2.39E+00	2.66E+00	2.79E+00	2.95E+00	3.06E+00	3.11E+00	3.20E+00	3.23E+00	3.23E+00				
3.0E+00	8.59E-03	1.04E-01	1.41E-01	9.67E-01	1.33E+00	1.39E+00	1.67E+00	1.85E+00	2.12E+00	2.24E+00	2.37E+00	2.48E+00	2.53E+00	2.62E+00	2.65E+00	2.65E+00				
4.0E+00	4.48E-03	5.05E-02	6.03E-02	4.97E-01	6.37E-01	6.81E-01	9.56E-01	1.14E+00	1.37E+00	1.48E+00	1.57E+00	1.68E+00	1.73E+00	1.81E+00	1.84E+00	1.84E+00				
5.0E+00	2.40E-03	1.73E-02	2.50E-02	2.15E-01	2.79E-01	3.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Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(1)	4f+(2)	5s+(2)	5p-(4)	5p+(1)	5d-(2)	Total
0.0E+00	1.37E-02	4.90E-02	2.43E-02	2.57E-02	1.11E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.39E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	6.02E-01	4.14E-01	4.31E-01	4.98E-01	2.05E+00	1.26E+01
5.0E-02	1.37E-02	4.90E-02	2.43E-02	2.57E-02	1.11E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.39E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	5.99E-01	4.14E-01	4.31E-01	4.98E-01	1.96E+00	1.24E+01
1.0E-01	1.37E-02	4.90E-02	2.43E-02	2.57E-02	1.11E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.38E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	5.91E-01	4.14E-01	4.31E-01	4.98E-01	1.72E+00	1.19E+01
1.5E-01	1.37E-02	4.90E-02	2.43E-02	2.57E-02	1.11E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.38E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	5.79E-01	4.13E-01	4.31E-01	4.98E-01	1.39E+00	1.12E+01
2.0E-01	1.37E-02	4.90E-02	2.43E-02	2.57E-02	1.11E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.36E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	5.61E-01	4.13E-01	4.30E-01	4.98E-01	1.04E+00	1.04E+01
3.0E-01	1.37E-02	4.90E-02	2.43E-02	2.57E-02	1.11E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.33E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	5.15E-01	4.09E-01	4.26E-01	4.93E-01	4.69E-01	9.17E+00
4.0E-01	1.37E-02	4.90E-02	2.43E-02	2.57E-02	1.10E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.28E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	4.56E-01	4.01E-01	4.16E-01	4.79E-01	1.81E-01	8.40E+00
5.0E-01	1.37E-02	4.89E-02	2.43E-02	2.57E-02	1.10E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.22E-01	1.53E-01	1.59E-01	1.27E-01	1.29E-01	1.42E-01	3.91E-01	3.86E-01	3.98E-01	4.50E-01	8.80E-02	7.94E+00
6.0E-01	1.37E-02	4.89E-02	2.43E-02	2.57E-02	1.09E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.15E-01	1.53E-01	1.58E-01	1.27E-01	1.29E-01	1.42E-01	3.25E-01	3.64E-01	3.73E-01	4.08E-01	7.21E-02	7.57E+00
7.0E-01	1.37E-02	4.88E-02	2.43E-02	2.57E-02	1.08E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	2.07E-01	1.52E-01	1.58E-01	1.27E-01	1.29E-01	1.42E-01	2.62E-01	3.36E-01	3.40E-01	3.58E-01	7.15E-02	7.18E+00
8.0E-01	1.37E-02	4.87E-02	2.43E-02	2.57E-02	1.07E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	1.98E-01	1.52E-01	1.57E-01	1.27E-01	1.29E-01	1.42E-01	2.06E-01	3.02E-01	3.02E-01	3.04E-01	6.66E-02	6.76E+00
1.0E+00	1.37E-02	4.86E-02	2.43E-02	2.57E-02	1.05E-01	6.58E-02	6.84E-02	4.52E-02	4.58E-02	1.79E-01	1.50E-01	1.55E-01	1.27E-01	1.28E-01	1.40E-01	1.21E-01	2.27E-01	2.21E-01	2.03E-01	4.41E-02	5.91E+00
1.2E+00	1.37E-02	4.83E-02	2.43E-02	2.57E-02	1.02E-01	6.57E-02	6.83E-02	4.52E-02	4.58E-02	1.57E-01	1.46E-01	1.51E-01	1.26E-01	1.28E-01	1.38E-01	7.22E-02	1.56E-01	1.46E-01	1.27E-01	2.28E-02	5.17E+00
1.4E+00	1.37E-02	4.81E-02	2.43E-02	2.57E-02	9.90E-02	6.56E-02	6.82E-02	4.52E-02	4.58E-02	1.36E-01	1.42E-01	1.45E-01	1.25E-01	1.26E-01	1.34E-01	5.01E-02	9.93E-02	8.97E-02	7.47E-02	1.06E-02	4.61E+00
1.6E+00	1.37E-02	4.78E-02	2.43E-02	2.57E-02	9.56E-02	6.55E-02	6.80E-02	4.52E-02	4.58E-02	1.15E-01	1.35E-01	1.38E-01	1.23E-01	1.24E-01	1.28E-01	4.33E-02	6.00E-02	5.26E-02	4.24E-02	5.47E-03	4.21E+00
1.8E+00	1.37E-02	4.75E-02	2.43E-02	2.57E-02	9.19E-02	6.53E-02	6.78E-02	4.52E-02	4.58E-02	9.54E-02	1.27E-01	1.29E-01	1.20E-01	1.21E-01	1.21E-01	4.24E-02	3.62E-02	3.16E-02	2.36E-02	3.95E-03	3.92E+00
2.0E+00	1.37E-02	4.71E-02	2.43E-02	2.57E-02	8.79E-02	6.50E-02	6.74E-02	4.52E-02	4.57E-02	7.82E-02	1.18E-01	1.19E-01	1.16E-01	1.17E-01	1.14E-01	4.21E-02	2.37E-02	2.15E-02	1.33E-02	3.73E-03	3.69E+00
2.4E+00	1.37E-02	4.63E-02	2.43E-02	2.57E-02	7.93E-02	6.42E-02	6.65E-02	4.51E-02	4.57E-02	5.13E-02	9.78E-02	9.62E-02	1.05E-01	1.06E-01	9.78E-02	3.60E-02	1.64E-02	1.66E-02	5.64E-03	3.52E-03	3.30E+00
3.0E+00	1.36E-02	4.49E-02	2.42E-02	2.57E-02	6.59E-02	6.22E-02	6.41E-02	4.50E-02	4.55E-02	2.93E-02	6.58E-02	6.24E-02	8.39E-02	8.35E-02	7.43E-02	1.96E-02	1.57E-02	1.57E-02	4.37E-03	2.10E-03	2.73E+00
4.0E+00	1.36E-02	4.19E-02	2.42E-02	2.56E-02	4.46E-02	5.66E-02	5.77E-02	4.43E-02	4.48E-02	2.15E-02	2.71E-02	2.44E-02	4.68E-02	4.58E-02	4.38E-02	5.22E-03	8.90E-03	7.90E-03	3.58E-03	5.09E-04	1.91E+00
5.0E+00	1.35E-02	3.84E-02	2.40E-02	2.54E-02	2.79E-02	4.85E-02	4.85E-02	4.28E-02	4.32E-02	2.06E-02	1.16E-02	1.09E-02	2.15E-02	2.06E-02	2.47E-02	3.75E-03	3.13E-03	2.60E-03	1.90E-03	3.08E-04	1.40E+00
6.0E+00	1.33E-02	3.46E-02	2.38E-02	2.51E-02	1.71E-02	3.90E-02	3.81E-02	4.02E-02	4.05E-02	1.59E-02	8.60E-03	8.92E-03	9.09E-03	8.65E-03	1.38E-02	3.41E-03	1.36E-03	1.28E-03	8.07E-04	2.87E-04	1.11E+00
7.0E+00	1.32E-02	3.06E-02	2.34E-02	2.47E-02	1.12E-02	2.96E-02	2.81E-02	3.66E-02	3.67E-02	9.90E-03	8.46E-03	8.77E-03	4.51E-03	4.37E-03	7.70E-03	2.33E-03	1.15E-03	1.19E-03	3.50E-04	2.00E-04	9.30E-01
8.0E+00	1.30E-02	2.66E-02	2.29E-02	2.40E-02	8.74E-03	2.12E-02	1.95E-02	3.23E-02	3.23E-02	5.40E-03	7.76E-03	7.69E-03	3.32E-03	3.32E-03	4.34E-03	1.29E-03	1.12E-03	1.12E-03	2.12E-04	1.11E-04	7.87E-01
1.0E+01	1.30E-02	1.90E-02	2.20E-02	2.20E-02	8.00E-03	9.70E-03	8.50E-03	2.30E-02	2.30E-02	2.10E-03	4.50E-03	4.10E-03	3.20E-03	3.20E-03	1.40E-03	3.90E-04	7.20E-04	6.40E-04	1.90E-04	3.30E-05	5.70E-01
1.5E+01	1.10E-02	6.80E-03	1.60E-02	1.60E-02	5.20E-03	2.40E-03	2.50E-03	7.90E-03	7.60E-03	1.50E-03	5.90E-04	5.60E-04	1.60E-03	1.60E-03	1.20E-04	2.60E-04	9.00E-05	8.00E-05	1.00E-04	2.10E-05	2.60E-01
2.0E+01	1.00E-02	2.20E-03	1.10E-02	1.00E-02	1.60E-03	2.20E-03	2.30E-03	2.30E-03	2.20E-03	4.90E-04	4.30E-04	4.70E-04	5.20E-04	4.90E-04	1.40E-05	8.70E-05	6.00E-05	6.30E-05	3.30E-05	7.10E-06	1.40E-01
3.0E+01	7.10E-03	1.20E-03	3.70E-03	3.20E-03	2.50E-04	1.00E-03	9.30E-04	2.40E-04	2.10E-04	5.70E-05	2.30E-04	2.10E-04	5.20E-05	4.70E-05	4.70E-07	9.40E-06	3.20E-05	2.90E-05	3.40E-06	7.70E-07	4.70E-02
4.0E+01	4.70E-03	1.00E-03	1.20E-03	9.50E-04	2.30E-04	3.40E-04	2.70E-04	3.30E-05	2.80E-05	5.10E-05	7.60E-05	6.20E-05	7.20E-06	6.10E-06	3.10E-08	8.50E-06	1.10E-05	8.50E-06	4.60E-07	6.90E-07	2.10E-02
6.0E+01	1.90E-03	4.20E-04	1.70E-04	1.10E-04	9.70E-05	4.40E-05	2.90E-05	1.40E-06	1.10E-06	2.20E-05	9.70E-06	6.40E-06	3.10E-07	2.40E-07	5.10E-10	3.70E-06	1.40E-06	8.90E-07	2.00E-08	3.00E-07	5.90E-03
1.0E+02	3.50E-04	6.20E-05	9.40E-06	4.20E-06	1.40E-05	2.30E-06	1.00E-06	2.10E-08	1.30E-08	3.10E-06	5.00E-07	2.30E-07	4.50E-09	2.80E-09	3.50E-12	5.10E-07	6.90E-08	3.10E-08	2.90E-10	4.20E-08	9.00E-04

E[keV]: 4.04E+01 6.55E+00 6.17E+00 5.72E+00 1.44E+00 1.27E+00 1.19E+00 9.01E-01 8.83E-01 2.89E-01 2.07E-01 2.07E-01 1.12E-01 1.08E-01 0.00E+00 3.80E-02 1.80E-02 1.80E-02 0.00E+00 0.00E+00

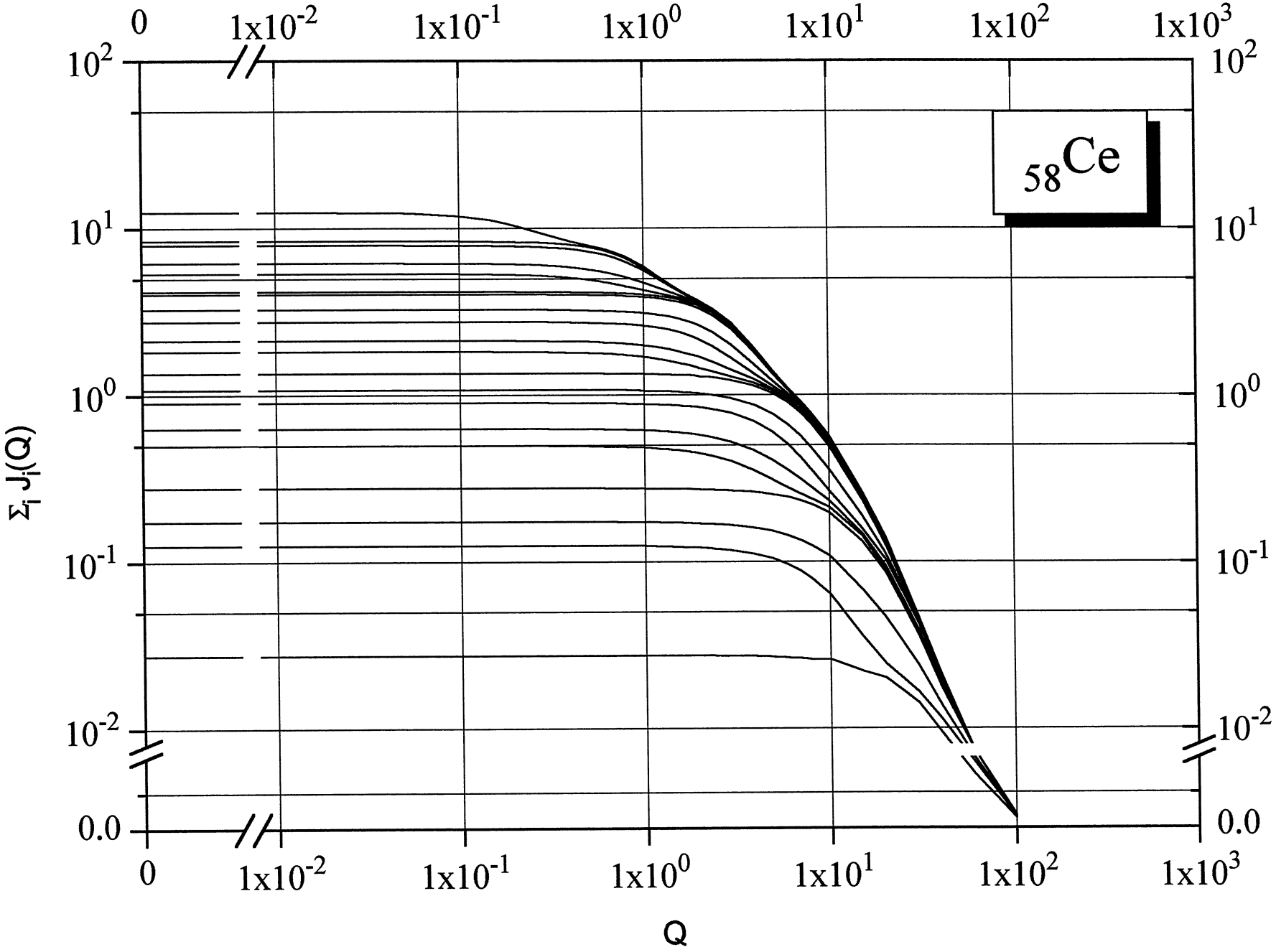
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(1)	4f+(2)	5s+(2)	5p-(4)	5p+(1)	5d-(2)	Total
0.0E+00	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.99E-01	6.30E-01	9.04E-01	1.08E+00	1.36E+00	1.84E+00	2.14E+00	2.78E+00	3.29E+00	4.06E+00	4.20E+00	5.41E+00	6.24E+00	7.96E+00	8.46E+00	1.26E+01	1.26E+01
5.0E-02	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.99E-01	6.30E-01	9.04E-01	1.08E+00	1.36E+00	1.84E+00	2.14E+00	2.78E+00	3.29E+00	4.06E+00	4.20E+00	5.40E+00	6.23E+00	7.95E+00	8.45E+00	1.24E+01	1.24E+01
1.0E-01	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.99E-01	6.30E-01	9.04E-01	1.08E+00	1.36E+00	1.84E+00	2.14E+00	2.78E+00	3.29E+00	4.06E+00	4.20E+00	5.38E+00	6.21E+00	7.94E+00	8.43E+00	1.19E+01	1.19E+01
1.5E-01	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.99E-01	6.30E-01	9.04E-01	1.08E+00	1.36E+00	1.84E+00	2.14E+00	2.78E+00	3.29E+00	4.06E+00	4.20E+00	5.36E+00	6.19E+00	7.91E+00	8.41E+00	1.12E+01	1.12E+01
2.0E-01	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.99E-01	6.30E-01	9.04E-01	1.08E+00	1.36E+00	1.83E+00	2.14E+00	2.77E+00	3.28E+00	4.06E+00	4.20E+00	5.32E+00	6.15E+00	7.87E+00	8.36E+00	1.04E+01	1.04E+01
3.0E-01	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.99E-01	6.30E-01	9.04E-01	1.08E+00	1.36E+00	1.83E+00	2.13E+00	2.77E+00	3.28E+00	4.05E+00	4.19E+00	5.22E+00	6.04E+00	7.74E+00	8.24E+00	9.17E+00	9.17E+00
4.0E-01	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.97E-01	6.28E-01	9.02E-01	1.08E+00	1.36E+00	1.81E+00	2.12E+00	2.76E+00	3.26E+00	4.04E+00	4.18E+00	5.09E+00	5.89E+00	7.56E+00	8.04E+00	8.40E+00	8.40E+00
5.0E-01	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.97E-01	6.28E-01	9.02E-01	1.08E+00	1.36E+00	1.80E+00	2.11E+00	2.74E+00	3.25E+00	4.03E+00	4.17E+00	4.95E+00	5.72E+00	7.31E+00	7.76E+00	7.94E+00	7.94E+00
6.0E-01	2.74E-02	1.25E-01	1.74E-01	2.77E-01	4.95E-01	6.26E-01	9.00E-01	1.08E+00	1.36E+00	1.79E+00	2.09E+00	2.72E+00	3.23E+00	4.01E+00	4.15E+00	4.80E+00	5.53E+00	7.02E+00	7.43E+00	7.57E+00	7.57E+00
7.0E-01	2.74E-02	1.25E-01	1.74E-01	2.76E-01	4.92E-01	6.24E-01	8.98E-01	1.08E+00	1.35E+00	1.77E+00	2.07E+00	2.70E+00	3.21E+00	3.99E+00	4.13E+00	4.65E+00	5.32E+00	6.68E+00	7.04E+00	7.18E+00	7.18E+00
8.0E-01	2.74E-02	1.25E-01	1.73E-01	2.76E-01	4.90E-01	6.22E-01	8.95E-01	1.08E+00	1.35E+00	1.75E+00	2.05E+00	2.68E+00	3.19E+00	3.96E+00	4.10E+00	4.52E+00	5.12E+00	6.33E+00	6.63E+00	6.76E+00	6.76E+00
1.0E+00	2.74E-02	1.25E-01	1.73E-01	2.76E-01	4.86E-01	6.18E-01	8.91E-01	1.07E+00	1.35E+00	1.70E+00	2.00E+00	2.62E+00	3.13E+00	3.90E+00	4.04E+00	4.28E+00	4.74E+00	5.62E+00	5.82E+00	5.91E+00	5.91E+00
1.2E+00	2.74E-02	1.24E-01	1.73E-01	2.75E-01	4.79E-01	6.11E-01	8.84E-01	1.06E+00	1.34E+00	1.65E+00	1.95E+00	2.55E+00	3.05E+00	3.82E+00	3.96E+00	4.10E+00	4.42E+00	5.00E+00	5.13E+00	5.17E+00	5.17E+00
1.4E+00	2.74E-02	1.24E-01	1.72E-01	2.75E-01	4.73E-01	6.04E-01	8.77E-01	1.06E+00	1.33E+00	1.60E+00	1.89E+00	2.47E+00	2.97E+00	3.72E+00	3.86E+00	3.96E+00	4.16E+00	4.52E+00	4.59E+00	4.61E+00	4.61E+00
1.6E+00	2.74E-02	1.23E-01	1.72E-01	2.74E-01	4.66E-01	5.97E-01	8.69E-01	1.05E+00	1.32E+00	1.55E+00	1.82E+00	2.38E+00	2.87E+00	3.61E+00	3.74E+00	3.83E+00	3.95E+00	4.16E+00	4.20E+00	4.21E+00	4.21E+00
1.8E+00	2.74E-02	1.22E-01	1.71E-01	2.74E-01	4.58E-01	5.88E-01	8.59E-01	1.04E+00	1.32E+00	1.51E+00	1.76E+00	2.28E+00	2.76E+00	3.48E+00	3.60E+00	3.69E+00	3.76E+00	3.89E+00	3.91E+00	3.92E+00	3.92E+00
2.0E+00	2.74E-02	1.22E-01	1.70E-01	2.73E-01	4.49E-01	5.79E-01	8.48E-01	1.03E+00	1.30E+00	1.46E+00	1.70E+00	2.17E+00	2.64E+00	3.34E+00	3.45E+00	3.54E+00	3.58E+00	3.67E+00	3.68E+00	3.69E+00	3.69E+00
2.4E+00	2.74E-02	1.20E-01	1.69E-01	2.71E-01	4.30E-01	5.58E-01	8.24E-01	1.00E+00	1.28E+00	1.38E+00	1.58E+00	1.96E+00	2.38E+00	3.02E+00	3.12E+00	3.19E+00	3.22E+00	3.29E+00	3.29E+00	3.30E+00	3.30E+00
3.0E+00	2.72E-02	1.17E-01	1.65E-01	2.68E-01	4.00E-01	5.24E-01	7.81E-01	9.61E-01	1.23E+00	1.29E+00	1.42E+00	1.67E+00	2.01E+00	2.51E+00	2.58E+00	2.62E+00	2.66E+00	2.72E+00	2.72E+00	2.73E+00	2.73E+00
4.0E+00	2.72E-02	1.11E-01	1.59E-01	2.62E-01	3.51E-01	4.64E-01	6.95E-01	8.72E-01	1.14E+00	1.18E+00	1.24E+00	1.34E+00	1.52E+00	1.80E+00	1.84E+00	1.85E+00	1.87E+00	1.90E+00	1.91E+00	1.91E+00	1.91E+00
5.0E+00	2.70E-02	1.04E-01	1.52E-01	2.53E-01	3.09E-01	4.06E-01	6.00E-01	7.71E-01	1.03E+00	1.07E+00	1.09E+00	1.14E+00	1.22E+00	1.35E+00	1.37E+00	1.38E+00	1.39E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
6.0E+00	2.66E-02	9.58E-02	1.43E-01	2.44E-01	2.78E-01	3.56E-01	5.08E-01	6.69E-01	9.12E-01	9.44E-01	9.61E-01	9.97E-01	1.03E+00	1.09E+00	1.10E+00	1.11E+00	1.11E+00	1.11E+00	1.11E+00	1.11E+00	1.11E+00
7.0E+00	2.64E-02	8.76E-02	1.34E-01	2.33E-01	2.56E-01	3.15E-01	4.27E-01	5.74E-01	7.94E-01	8.14E-01	8.31E-01	8.66E-01	8.84E-01	9.10E-01	9.18E-01	9.22E-01	9.25E-01	9.29E-01	9.30E-01	9.30E-01	9.30E-01
8.0E+00	2.60E-02	7.92E-02	1.25E-01	2.21E-01	2.38E-01	2.81E-01	3.59E-01	4.88E-01	6.82E-01	6.93E-01	7.08E-01	7.39E-01	7.52E-01	7.72E-01	7.76E-01	7.79E-01	7.81E-01	7.86E-01	7.86E-01	7.86E-01	7.87E-01
1.0E+01	2.60E-02	6.40E-02	1.08E-01	1.96E-01	2.12E-01	2.31E-01	2.65E-01	3.57E-01	4.95E-01	5.00E-01	5.09E-01	5.25E-01	5.38E-01	5.57E-01	5.58E-01	5.59E-01	5.61E-01	5.63E-01	5.63E-01	5.63E-01	5.70E-01
1.5E+01	2.20E-02	3.56E-02	6.76E-02	1.32E-01	1.42E-01	1.47E-01	1.57E-01	1.88E-01	2.34E-01	2.37E-01	2.38E-01	2.40E-01	2.47E-01	2.56E-01	2.57E-01	2.57E-01	2.57E-01	2.58E-01	2.58E-01	2.58E-01	2.60E-01
2.0E+01	2.00E-02	2.44E-02	4.64E-02	8.64E-02	8.96E-02	9.40E-02	1.03E-01	1.12E-01	1.26E-01	1.27E-01	1.27E-01	1.29E-01	1.31E-01	1.34E-01	1.34E-01	1.35E-01	1.35E-01	1.35E-01	1.35E-01	1.35E-01	1.40E-01
3.0E+01	1.42E-02	1.66E-02	2.40E-02	3.68E-02	3.73E-02	3.93E-02	4.30E-02	4.40E-02	4.52E-02	4.54E-02	4.58E-02	4.67E-02	4.69E-02	4.71E-02	4.71E-02	4.72E-02	4.72E-02	4.73E-02	4.73E-02	4.73E-02	4.70E-02
4.0E+01	9.40E-03	1.14E-02	1.38E-02	1.76E-02	1.81E-02	1.87E-02	1.98E-02	2.00E-02	2.01E-02	2.02E-02	2.04E-02	2.06E-02	2.07E-02	2.07E-02	2.07E-02	2.07E-02	2.07E-02	2.08E-02	2.08E-02	2.08E-02	2.10E-02
6.0E+01	3.80E-03	4.64E-03	4.98E-03	5.42E-03	5.61E-03	5.70E-03	5.82E-03	5.82E-03	5.83E-03	5.87E-03	5.89E-03	5.92E-03	5.92E-03	5.92E-03	5.92E-03	5.93E-03	5.93E-03	5.94E-03	5.94E-03	5.94E-03	5.90E-03
1.0E+02	7.00E-04	8.24E-04	8.43E-04	8.60E-04	8.88E-04	8.92E-04	8.96E-04	8.96E-04	8.96E-04	9.03E-04	9.04E-04	9.04E-04	9.04E-04	9.05E-04	9.05E-04	9.06E-04	9.06E-04	9.06E-04	9.06E-04	9.06E-04	9.00E-04

E[keV]: 4.04E+01 6.55E+00 6.17E+00 5.72E+00 1.44E+00 1.27E+00 1.19E+00 9.01E-01 8.83E-01 2.89E-01 2.07E-01 2.07E-01 1.12E-01 1.08E-01 0.00E+00 3.80E-02 1.80E-02 1.80E-02 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	4.74E+00	7.29E+00	8.50E+00	9.27E+00	9.76E+00	1.07E+01	1.12E+01	1.15E+01	1.17E+01	1.19E+01	1.21E+01	1.23E+01	1.24E+01	1.24E+01	1.25E+01	1.26E+01	1.26E+01				
5.0E-02	4.56E+00	7.11E+00	8.31E+00	9.08E+00	9.59E+00	1.05E+01	1.10E+01	1.13E+01	1.15E+01	1.17E+01	1.19E+01	1.21E+01	1.22E+01	1.22E+01	1.23E+01	1.24E+01	1.24E+01				
1.0E-01	4.08E+00	6.63E+00	7.81E+00	8.59E+00	9.10E+00	1.00E+01	1.05E+01	1.08E+01	1.10E+01	1.12E+01	1.14E+01	1.16E+01	1.17E+01	1.17E+01	1.18E+01	1.19E+01	1.19E+01				
1.5E-01	3.42E+00	5.97E+00	7.13E+00	7.90E+00	8.41E+00	9.35E+00	9.83E+00	1.01E+01	1.03E+01	1.06E+01	1.07E+01	1.09E+01	1.10E+01	1.11E+01	1.12E+01	1.12E+01	1.12E+01				
2.0E-01	2.72E+00	5.27E+00	6.39E+00	7.16E+00	7.67E+00	8.61E+00	9.08E+00	9.36E+00	9.54E+00	9.81E+00	9.94E+00	1.02E+01	1.03E+01	1.04E+01	1.04E+01	1.04E+01	1.04E+01				
3.0E-01	1.57E+00	4.10E+00	5.13E+00	5.90E+00	6.41E+00	7.35E+00	7.81E+00	8.09E+00	8.27E+00	8.54E+00	8.68E+00	8.90E+00	9.00E+00	9.05E+00	9.15E+00	9.17E+00	9.17E+00				
4.0E-01	9.83E-01	3.45E+00	4.36E+00	5.14E+00	5.64E+00	6.58E+00	7.04E+00	7.32E+00	7.50E+00	7.77E+00	7.90E+00	8.12E+00	8.22E+00	8.27E+00	8.37E+00	8.40E+00	8.40E+00				
5.0E-01	7.68E-01	3.13E+00	3.91E+00	4.69E+00	5.20E+00	6.14E+00	6.58E+00	6.86E+00	7.04E+00	7.31E+00	7.44E+00	7.66E+00	7.77E+00	7.81E+00	7.91E+00	7.94E+00	7.94E+00				
6.0E-01	6.94E-01	2.91E+00	3.56E+00	4.34E+00	4.85E+00	5.78E+00	6.21E+00	6.49E+00	6.67E+00	6.94E+00	7.08E+00	7.29E+00	7.40E+00	7.44E+00	7.54E+00	7.57E+00	7.57E+00				
7.0E-01	6.43E-01	2.68E+00	3.20E+00	3.97E+00	4.48E+00	5.42E+00	5.83E+00	6.11E+00	6.29E+00	6.56E+00	6.69E+00	6.91E+00	7.01E+00	7.06E+00	7.16E+00	7.18E+00	7.18E+00				
8.0E-01	5.79E-01	2.39E+00	2.80E+00	3.58E+00	4.09E+00	5.02E+00	5.41E+00	5.69E+00	5.87E+00	6.14E+00	6.27E+00	6.49E+00	6.59E+00	6.64E+00	6.74E+00	6.76E+00	6.76E+00				
1.0E+00	4.31E-01	1.77E+00	2.01E+00	2.78E+00	3.29E+00	4.21E+00	4.57E+00	4.84E+00	5.02E+00	5.29E+00	5.43E+00	5.64E+00	5.74E+00	5.79E+00	5.88E+00	5.91E+00	5.91E+00				
1.2E+00	3.11E-01	1.21E+00	1.35E+00	2.12E+00	2.62E+00	3.52E+00	3.83E+00	4.11E+00	4.29E+00	4.56E+00	4.69E+00	4.90E+00	5.00E+00	5.05E+00	5.15E+00	5.17E+00	5.17E+00				
1.4E+00	2.30E-01	7.87E-01	8.88E-01	1.64E+00	2.14E+00	3.01E+00	3.28E+00	3.55E+00	3.74E+00	4.01E+00	4.14E+00	4.34E+00	4.44E+00	4.49E+00	4.58E+00	4.61E+00	4.61E+00				
1.6E+00	1.81E-01	5.12E-01	5.98E-01	1.34E+00	1.83E+00	2.66E+00	2.89E+00	3.16E+00	3.34E+00	3.61E+00	3.74E+00	3.94E+00	4.04E+00	4.09E+00	4.18E+00	4.21E+00	4.21E+00				
1.8E+00	1.53E-01	3.51E-01	4.36E-01	1.16E+00	1.64E+00	2.41E+00	2.60E+00	2.88E+00	3.06E+00	3.33E+00	3.46E+00	3.64E+00	3.75E+00	3.80E+00	3.89E+00	3.92E+00	3.92E+00				
2.0E+00	1.35E-01	2.68E-01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10^-1
10^-2
0.0
58Ce
Σ_i J_i(Q)
Q

Z=59

Compton profiles for the single orbitals and binding energies

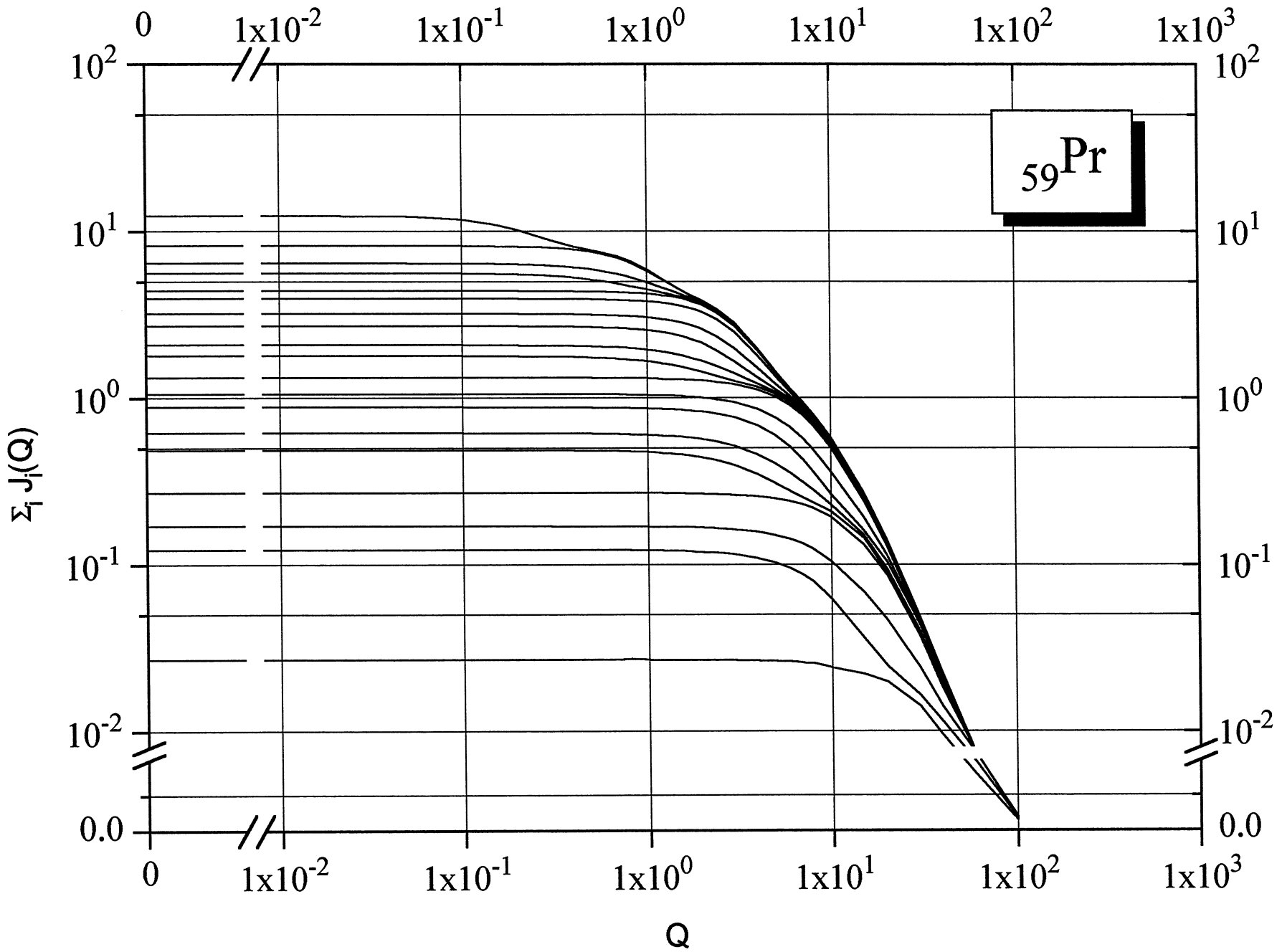
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(3)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	1.35E-02	4.80E-02	2.38E-02	2.52E-02	1.09E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.34E-01	1.50E-01	1.56E-01	1.25E-01	1.26E-01	1.49E-01	6.09E-01	4.17E-01	4.42E-01	2.15E+00	1.25E+01
5.0E-02	1.35E-02	4.80E-02	2.38E-02	2.52E-02	1.09E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.34E-01	1.50E-01	1.56E-01	1.25E-01	1.26E-01	1.49E-01	6.07E-01	4.17E-01	4.42E-01	2.05E+00	1.23E+01
1.0E-01	1.35E-02	4.80E-02	2.38E-02	2.52E-02	1.09E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.33E-01	1.50E-01	1.56E-01	1.25E-01	1.26E-01	1.49E-01	5.99E-01	4.16E-01	4.42E-01	1.78E+00	1.18E+01
1.5E-01	1.35E-02	4.80E-02	2.38E-02	2.52E-02	1.08E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.33E-01	1.50E-01	1.56E-01	1.25E-01	1.26E-01	1.49E-01	5.86E-01	4.16E-01	4.41E-01	1.42E+00	1.10E+01
2.0E-01	1.35E-02	4.80E-02	2.38E-02	2.52E-02	1.08E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.32E-01	1.50E-01	1.56E-01	1.25E-01	1.26E-01	1.49E-01	5.60E-01	4.16E-01	4.40E-01	1.03E+00	1.02E+01
3.0E-01	1.35E-02	4.80E-02	2.38E-02	2.52E-02	1.08E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.28E-01	1.50E-01	1.56E-01	1.25E-01	1.26E-01	1.49E-01	5.20E-01	4.12E-01	4.36E-01	4.41E-01	8.90E+00
4.0E-01	1.35E-02	4.79E-02	2.38E-02	2.52E-02	1.08E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.24E-01	1.50E-01	1.56E-01	1.25E-01	1.26E-01	1.48E-01	4.61E-01	4.03E-01	4.25E-01	1.62E-01	8.15E+00
5.0E-01	1.35E-02	4.79E-02	2.38E-02	2.52E-02	1.07E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.18E-01	1.50E-01	1.55E-01	1.25E-01	1.26E-01	1.48E-01	3.95E-01	3.88E-01	4.05E-01	7.99E-02	7.73E+00
6.0E-01	1.35E-02	4.79E-02	2.38E-02	2.52E-02	1.06E-01	6.43E-02	6.69E-02	4.41E-02	4.47E-02	2.11E-01	1.49E-01	1.55E-01	1.25E-01	1.26E-01	1.48E-01	3.27E-01	3.66E-01	3.78E-01	6.86E-02	7.40E+00
7.0E-01	1.35E-02	4.78E-02	2.38E-02	2.52E-02	1.06E-01	6.42E-02	6.69E-02	4.41E-02	4.47E-02	2.04E-01	1.49E-01	1.55E-01	1.25E-01	1.26E-01	1.48E-01	2.64E-01	3.37E-01	3.43E-01	6.77E-02	7.06E+00
8.0E-01	1.36E-02	4.77E-02	2.38E-02	2.52E-02	1.05E-01	6.42E-02	6.69E-02	4.41E-02	4.47E-02	1.95E-01	1.48E-01	1.54E-01	1.25E-01	1.26E-01	1.47E-01	2.07E-01	3.03E-01	3.03E-01	6.16E-02	6.68E+00
1.0E+00	1.35E-02	4.76E-02	2.38E-02	2.52E-02	1.03E-01	6.42E-02	6.68E-02	4.41E-02	4.47E-02	1.77E-01	1.47E-01	1.52E-01	1.24E-01	1.26E-01	1.45E-01	1.21E-01	2.28E-01	2.18E-01	3.87E-02	5.90E+00
1.2E+00	1.34E-02	4.74E-02	2.38E-02	2.52E-02	1.00E-01	6.42E-02	6.68E-02	4.41E-02	4.47E-02	1.57E-01	1.44E-01	1.48E-01	1.24E-01	1.25E-01	1.40E-01	7.09E-02	1.56E-01	1.43E-01	1.92E-02	5.23E+00
1.4E+00	1.34E-02	4.71E-02	2.38E-02	2.52E-02	9.72E-02	6.41E-02	6.67E-02	4.41E-02	4.47E-02	1.36E-01	1.39E-01	1.43E-01	1.23E-01	1.24E-01	1.35E-01	4.83E-02	9.90E-02	8.65E-02	8.73E-03	4.72E+00
1.6E+00	1.34E-02	4.69E-02	2.38E-02	2.52E-02	9.40E-02	6.39E-02	6.65E-02	4.41E-02	4.47E-02	1.16E-01	1.33E-01	1.36E-01	1.21E-01	1.22E-01	1.28E-01	4.11E-02	5.96E-02	5.02E-02	4.50E-03	4.35E+00
1.8E+00	1.34E-02	4.66E-02	2.38E-02	2.52E-02	9.05E-02	6.38E-02	6.63E-02	4.41E-02	4.47E-02	9.68E-02	1.26E-01	1.28E-01	1.18E-01	1.19E-01	1.20E-01	4.01E-02	3.57E-02	2.97E-02	3.28E-03	4.07E+00
2.0E+00	1.34E-02	4.62E-02	2.38E-02	2.52E-02	8.67E-02	6.35E-02	6.60E-02	4.41E-02	4.46E-02	7.99E-02	1.18E-01	1.19E-01	1.15E-01	1.15E-01	1.12E-01	3.99E-02	2.30E-02	1.99E-02	3.11E-03	3.84E+00
2.4E+00	1.34E-02	4.55E-02	2.37E-02	2.52E-02	7.86E-02	6.28E-02	6.51E-02	4.41E-02	4.46E-02	5.29E-02	9.82E-02	9.69E-02	1.04E-01	1.05E-01	9.46E-02	3.45E-02	1.53E-02	1.51E-02	2.93E-03	3.44E+00
3.0E+00	1.34E-02	4.41E-02	2.37E-02	2.52E-02	6.58E-02	6.10E-02	6.30E-02	4.39E-02	4.45E-02	3.00E-02	6.75E-02	6.42E-02	8.42E-02	8.40E-02	7.12E-02	1.94E-02	1.47E-02	1.43E-02	1.78E-03	2.85E+00
4.0E+00	1.33E-02	4.13E-02	2.37E-02	2.51E-02	4.53E-02	5.59E-02	5.71E-02	4.34E-02	4.39E-02	2.10E-02	2.89E-02	2.59E-02	4.84E-02	4.75E-02	4.21E-02	5.17E-03	8.74E-03	7.50E-03	4.42E-04	1.99E+00
5.0E+00	1.32E-02	3.80E-02	2.35E-02	2.49E-02	2.88E-02	4.84E-02	4.85E-02	4.20E-02	4.24E-02	2.04E-02	1.22E-02	1.13E-02	2.30E-02	2.22E-02	2.41E-02	2.45E-03	3.21E-03	2.55E-03	2.49E-04	1.45E+00
6.0E+00	1.31E-02	3.44E-02	2.33E-02	2.47E-02	1.78E-02	3.94E-02	3.86E-02	3.96E-02	4.00E-02	1.63E-02	8.48E-03	8.74E-03	9.97E-03	9.51E-03	1.37E-02	3.22E-03	1.33E-03	1.18E-03	2.37E-04	1.14E+00
7.0E+00	1.29E-02	3.05E-02	2.30E-02	2.42E-02	1.16E-02	3.03E-02	2.89E-02	3.64E-02	3.66E-02	1.06E-02	8.28E-03	8.62E-03	4.82E-03	4.65E-03	7.78E-03	3.31E-03	1.06E-03	1.05E-03	1.73E-04	9.48E-01
8.0E+00	1.28E-02	2.67E-02	2.25E-02	2.37E-02	8.84E-03	2.21E-02	2.04E-02	3.24E-02	3.24E-02	5.92E-03	7.77E-03	7.77E-03	3.34E-03	3.31E-03	4.45E-03	1.33E-03	1.04E-03	1.01E-03	1.00E-04	8.01E-01
1.0E+01	1.20E-02	1.90E-02	2.10E-02	2.20E-02	7.80E-03	1.00E-02	9.10E-03	2.40E-02	2.40E-02	2.20E-03	4.80E-03	4.40E-03	3.10E-03	3.10E-03	1.50E-03	4.00E-04	7.20E-04	6.20E-04	3.00E-05	5.80E-01
1.5E+01	1.10E-02	7.10E-03	1.60E-02	1.60E-02	6.40E-03	2.40E-03	2.50E-03	8.40E-03	8.10E-03	1.50E-03	6.40E-04	5.90E-04	1.70E-03	1.60E-03	1.20E-04	2.50E-04	9.30E-05	7.70E-05	1.90E-05	2.70E-01
2.0E+01	9.90E-03	2.40E-03	1.10E-02	1.00E-02	1.70E-03	2.20E-03	2.30E-03	2.60E-03	2.40E-03	5.40E-04	4.30E-04	4.70E-04	5.60E-04	5.30E-04	1.60E-05	9.10E-05	5.50E-05	5.70E-05	6.60E-06	1.40E-01
3.0E+01	7.10E-03	1.20E-03	3.90E-03	3.30E-03	2.50E-04	1.10E-03	9.80E-04	2.70E-04	2.40E-04	5.90E-05	2.40E-04	2.20E-04	5.90E-05	5.30E-05	5.40E-07	9.20E-06	3.20E-05	2.70E-05	6.60E-07	4.90E-02
4.0E+01	4.70E-03	1.00E-03	1.30E-03	1.00E-03	2.30E-04	3.70E-04	3.00E-04	3.80E-05	3.20E-05	5.20E-05	8.30E-05	6.70E-05	8.30E-06	7.10E-06	3.70E-08	8.00E-06	1.10E-05	8.40E-06	5.70E-07	2.20E-02
6.0E+01	2.00E-03	4.40E-04	1.90E-04	1.20E-04	1.00E-04	4.90E-05	3.20E-05	1.70E-06	1.30E-06	2.30E-05	1.10E-05	7.20E-06	3.60E-07	2.80E-07	6.00E-10	3.60E-06	1.40E-06	9.00E-07	2.60E-07	6.20E-03
1.0E+02	3.70E-04	6.70E-05	1.10E-05	4.70E-06	1.50E-05	2.60E-06	1.20E-06	2.50E-08	1.50E-08	3.40E-06	5.70E-07	2.60E-07	5.40E-09	3.30E-09	3.80E-12	5.30E-07	7.50E-08	3.20E-08	3.80E-08	9.60E-04
E[keV]:	4.20E+01	6.83E+00	6.44E+00	5.97E+00	1.51E+00	1.34E+00	1.24E+00	9.51E-01	9.31E-01	3.04E-01	2.18E-01	2.18E-01	1.18E-01	1.15E-01	0.00E+00	3.80E-02	2.30E-02	2.30E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(3)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	2.70E-02	1.23E-01	1.71E-01	2.71E-01	4.89E-01	6.18E-01	8.86E-01	1.06E+00	1.33E+00	1.80E+00	2.10E+00	2.72E+00	3.22E+00	3.98E+00	4.43E+00	5.64E+00	6.48E+00	8.25E+00	1.25E+01	1.25E+01
5.0E-02	2.70E-02	1.23E-01	1.71E-01	2.71E-01	4.89E-01	6.18E-01	8.86E-01	1.06E+00	1.33E+00	1.80E+00	2.10E+00	2.72E+00	3.22E+00	3.98E+00	4.43E+00	5.64E+00	6.47E+00	8.24E+00	1.23E+01	1.23E+01
1.0E-01	2.70E-02	1.23E-01	1.71E-01	2.71E-01	4.89E-01	6.18E-01	8.86E-01	1.06E+00	1.33E+00	1.80E+00	2.10E+00	2.72E+00	3.22E+00	3.98E+00	4.42E+00	5.62E+00	6.45E+00	8.22E+00	1.18E+01	1.18E+01
1.5E-01	2.70E-02	1.23E-01	1.71E-01	2.71E-01	4.87E-01	6.16E-01	8.84E-01	1.06E+00	1.33E+00	1.79E+00	2.09E+00	2.72E+00	3.22E+00	3.97E+00	4.42E+00	5.59E+00	6.43E+00	8.19E+00	1.10E+01	1.10E+01
2.0E-01	2.70E-02	1.23E-01	1.71E-01	2.71E-01	4.87E-01	6.16E-01	8.84E-01	1.06E+00	1.33E+00	1.79E+00	2.09E+00	2.72E+00	3.22E+00	3.97E+00	4.42E+00	5.56E+00	6.39E+00	8.15E+00	1.02E+01	1.02E+01
3.0E-01	2.70E-02	1.23E-01	1.71E-01	2.71E-01	4.87E-01	6.16E-01	8.84E-01	1.06E+00	1.33E+00	1.78E+00	2.08E+00	2.71E+00	3.21E+00	3.96E+00	4.41E+00	5.45E+00	6.28E+00	8.02E+00	8.90E+00	8.90E+00
4.0E-01	2.70E-02	1.23E-01	1.70E-01	2.71E-01	4.87E-01	6.16E-01	8.83E-01	1.06E+00	1.33E+00	1.78E+00	2.08E+00	2.70E+00	3.20E+00	3.96E+00	4.40E+00	5.32E+00	6.13E+00	7.83E+00	8.15E+00	8.15E+00
5.0E-01	2.70E-02	1.23E-01	1.70E-01	2.71E-01	4.85E-01	6.14E-01	8.81E-01	1.06E+00	1.33E+00	1.76E+00	2.06E+00	2.68E+00	3.18E+00	3.94E+00	4.38E+00	5.17E+00	5.95E+00	7.57E+00	7.73E+00	7.73E+00
6.0E-01	2.70E-02	1.23E-01	1.70E-01	2.71E-01	4.83E-01	6.12E-01	8.79E-01	1.06E+00	1.32E+00	1.75E+00	2.04E+00	2.66E+00	3.16E+00	3.92E+00	4.36E+00	5.02E+00	5.75E+00	7.26E+00	7.40E+00	7.40E+00
7.0E-01	2.70E-02	1.23E-01	1.70E-01	2.71E-01	4.83E-01	6.11E-01	8.79E-01	1.06E+00	1.32E+00	1.73E+00	2.03E+00	2.65E+00	3.15E+00	3.91E+00	4.35E+00	4.88E+00	5.55E+00	6.92E+00	7.06E+00	7.06E+00
8.0E-01	2.72E-02	1.23E-01	1.70E-01	2.71E-01	4.81E-01	6.09E-01	8.77E-01	1.05E+00	1.32E+00	1.71E+00	2.01E+00	2.62E+00	3.12E+00	3.88E+00	4.32E+00	4.73E+00	5.34E+00	6.55E+00	6.68E+00	6.68E+00
1.0E+00	2.70E-02	1.22E-01	1.70E-01	2.71E-01	4.77E-01	6.05E-01	8.72E-01	1.05E+00	1.32E+00	1.67E+00	1.96E+00	2.57E+00	3.07E+00	3.82E+00	4.26E+00	4.50E+00	4.96E+00	5.83E+00	5.91E+00	5.90E+00
1.2E+00	2.68E-02	1.22E-01	1.69E-01	2.70E-01	4.70E-01	5.98E-01	8.66E-01	1.04E+00	1.31E+00	1.62E+00	1.91E+00	2.50E+00	3.00E+00	3.75E+00	4.17E+00	4.31E+00	4.62E+00	5.20E+00	5.23E+00	5.23E+00
1.4E+00	2.68E-02	1.21E-01	1.69E-01	2.69E-01	4.64E-01	5.92E-01	8.59E-01	1.04E+00	1.30E+00	1.58E+00	1.85E+00	2.43E+00	2.92E+00	3.66E+00	4.07E+00	4.16E+00	4.36E+00	4.71E+00	4.72E+00	4.72E+00
1.6E+00	2.68E-02	1.21E-01	1.68E-01	2.69E-01	4.57E-01	5.85E-01	8.51E-01	1.03E+00	1.30E+00	1.53E+00	1.79E+00	2.34E+00	2.82E+00	3.55E+00	3.94E+00	4.02E+00	4.14E+00	4.34E+00	4.35E+00	4.35E+00
1.8E+00	2.68E-02	1.20E-01	1.68E-01	2.68E-01	4.49E-01	5.77E-01	8.42E-01	1.02E+00	1.29E+00	1.48E+00	1.73E+00	2.24E+00	2.72E+00	3.43E+00	3.79E+00	3.87E+00	3.94E+00	4.06E+00	4.07E+00	4.07E+00
2.0E+00	2.68E-02	1.19E-01	1.67E-01	2.68E-01	4.41E-01	5.68E-01	8.32E-01	1.01E+00	1.28E+00	1.44E+00	1.67E+00	2.15E+00	2.61E+00	3.30E+00	3.63E+00	3.71E+00	3.76E+00	3.84E+00	3.85E+00	3.84E+00
2.4E+00	2.68E-02	1.18E-01	1.65E-01	2.66E-01	4.23E-01	5.49E-01	8.09E-01	9.86E-01	1.25E+00	1.36E+00	1.56E+00	1.94E+00	2.36E+00	2.99E+00	3.27E+00	3.34E+00	3.37E+00	3.43E+00	3.44E+00	3.44E+00
3.0E+00	2.68E-02	1.15E-01	1.62E-01	2.63E-01	3.95E-01	5.17E-01	7.69E-01	9.44E-01	1.21E+00	1.27E+00	1.41E+00	1.66E+00	2.00E+00	2.50E+00	2.72E+00	2.76E+00	2.79E+00	2.84E+00	2.85E+00	2.85E+00
4.0E+00	2.66E-02	1.09E-01	1.57E-01	2.57E-01	3.48E-01	4.59E-01	6.88E-01	8.61E-01	1.12E+00	1.17E+00	1.22E+00	1.33E+00	1.52E+00	1.81E+00	1.93E+00	1.94E+00	1.96E+00	1.99E+00	1.99E+00	1.99E+00
5.0E+00	2.64E-02	1.02E-01	1.49E-01	2.49E-01	3.07E-01	4.03E-01	5.97E-01	7.65E-01	1.02E+00	1.06E+00	1.09E+00	1.13E+00	1.22E+00	1.36E+00	1.43E+00	1.43E+00	1.44E+00	1.45E+00	1.45E+00	1.45E+00
6.0E+00	2.62E-02	9.50E-02	1.42E-01	2.40E-01	2.76E-01	3.55E-01	5.09E-01	6.68E-01	9.08E-01	9.40E-01	9.57E-01	9.92E-01	1.03E+00	1.09E+00	1.13E+00	1.13E+00	1.14E+00	1.14E+00	1.14E+00	1.14E+00
7.0E+00	2.58E-02	8.66E-02	1.33E-01	2.30E-01	2.53E-01	3.13E-01	4.29E-01	5.75E-01	7.96E-01	8.15E-01	8.32E-01	8.66E-01	8.96E-01	9.14E-01	9.37E-01	9.44E-01	9.46E-01	9.50E-01	9.50E-01	9.48E-01
8.0E+00	2.56E-02	7.90E-02	1.24E-01	2.19E-01	2.36E-01	2.82E-01	3.92E-01	4.92E-01	6.86E-01	6.98E-01	7.14E-01	7.45E-01	7.56E-01	7.78E-01	7.91E-01	7.94E-01	7.96E-01	8.00E-01	8.00E-01	8.01E-01
1.0E+01	2.40E-02	6.20E-02	1.04E-01	1.92E-01	2.09E-01	2.28E-01	2.64E-01	3.60E-01	5.04E-01	5.08E-01	5.18E-01	5.36E-01	5.48E-01	5.67E-01	5.71E-01	5.72E-01	5.73E-01	5.76E-01	5.76E-01	5.80E-01
1.5E+01	2.20E-02	3.62E-02	6.82E-02	1.32E-01	1.45E-01	1.50E-01	1.60E-01	1.93E-01	2.42E-01	2.45E-01	2.46E-01	2.49E-01	2.55E-01	2.65E-01	2.65E-01	2.66E-01	2.66E-01	2.66E-01	2.66E-01	2.70E-01
2.0E+01	1.98E-02	2.46E-02	4.66E-02	8.66E-02	9.00E-02	9.44E-02	1.04E-01	1.14E-01	1.28E-01	1.29E-01	1.30E-01	1.32E-01	1.34E-01	1.38E-01	1.38E-01	1.38E-01	1.38E-01	1.38E-01	1.38E-01	1.40E-01
3.0E+01	1.42E-02	1.66E-02	2.44E-02	3.76E-02	3.81E-02	4.03E-02	4.42E-02	4.53E-02	4.67E-02	4.69E-02	4.73E-02	4.82E-02	4.85E-02	4.88E-02	4.88E-02	4.88E-02	4.89E-02	4.90E-02	4.90E-02	4.90E-02
4.0E+01	9.40E-03	1.14E-02	1.40E-02	1.80E-02	1.85E-02	1.92E-02	2.04E-02	2.06E-02	2.07E-02	2.08E-02	2.10E-02	2.13E-02	2.13E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.20E-02
6.0E+01	4.00E-03	4.88E-03	5.26E-03	5.74E-03	5.94E-03	6.04E-03	6.17E-03	6.17E-03	6.18E-03	6.23E-03	6.25E-03	6.28E-03	6.26E-03	6.28E-03	6.28E-03	6.29E-03	6.29E-03	6.29E-03	6.29E-03	6.20E-03
1.0E+02	7.40E-04	8.74E-04	8.96E-04	9.15E-04	9.45E-04	9.50E-04	9.55E-04	9.55E-04	9.55E-04	9.62E-04	9.63E-04	9.64E-04	9.64E-04	9.64E-04	9.64E-04	9.65E-04	9.65E-04	9.65E-04	9.65E-04	9.60E-04
E[keV]:	4.20E+01	6.83E+00	6.44E+00	5.97E+00	1.51E+00	1.34E+00	1.24E+00	9.51E-01	9.31E-01	3.04E-01	2.18E-01	2.18E-01	1.18E-01	1.15E-01	0.00E+00	3.80E-02	2.30E-02	2.30E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																				
0.0E+00	4.75E+00	7.35E+00	8.57E+00	9.32E+00	9.82E+00	1.07E+01	1.12E+01	1.15E+01	1.17E+01	1.19E+01	1.21E+01	1.23E+01	1.24E+01	1.24E+01	1.25E+01	1.25E+01	1.25E+01			
5.0E-02	4.55E+00	7.15E+00	8.36E+00	9.12E+00	9.62E+00	1.05E+01	1.10E+01	1.13E+01	1.15E+01	1.17E+01	1.19E+01	1.21E+01	1.22E+01	1.22E+01	1.23E+01	1.23E+01	1.23E+01			
1.0E-01	4.01E+00	6.61E+00	7.81E+00	8.56E+00	9.06E+00	9.99E+00	1.05E+01	1.07E+01	1.09E+01	1.12E+01	1.13E+01	1.15E+01	1.16E+01	1.17E+01	1.18E+01	1.18E+01	1.18E+01			
1.5E-01	3.29E+00	5.88E+00	7.06E+00	7.81E+00	8.31E+00	9.24E+00	9.70E+00	9.97E+00	1.01E+01	1.04E+01	1.05E+01	1.08E+01	1.09E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01			
2.0E-01	2.51E+00	5.10E+00	6.24E+00	6.99E+00	7.49E+00	8.42E+00	8.88E+00	9.15E+00	9.32E+00	9.59E+00	9.72E+00	9.94E+00	1.00E+01	1.01E+01	1.02E+01	1.02E+01	1.02E+01			
3.0E-01	1.33E+00	3.90E+00	4.94E+00	5.69E+00	6.19E+00	7.12E+00	7.57E+00	7.84E+00	8.02E+00	8.29E+00	8.41E+00	8.63E+00	8.73E+00	8.78E+00	8.87E+00	8.90E+00	8.90E+00			
4.0E-01	7.68E-01	3.27E+00	4.20E+00	4.95E+00	5.45E+00	6.38E+00	6.82E+00	7.09E+00	7.27E+00	7.54E+00	7.66E+00	7.88E+00	7.98E+00	8.03E+00	8.13E+00	8.15E+00	8.15E+00			
5.0E-01	6.04E-01	3.00E+00	3.79E+00	4.55E+00	5.05E+00	5.97E+00	6.40E+00	6.67E+00	6.85E+00	7.11E+00	7.24E+00	7.46E+00	7.56E+00	7.61E+00	7.70E+00	7.73E+00	7.73E+00			
6.0E-01	5.81E-01	2.83E+00	3.48E+00	4.24E+00	4.74E+00	5.65E+00	6.08E+00	6.34E+00	6.52E+00	6.79E+00	6.92E+00	7.13E+00	7.23E+00	7.28E+00	7.37E+00	7.40E+00	7.40E+00			
7.0E-01	5.79E-01	2.63E+00	3.15E+00	3.91E+00	4.41E+00	5.33E+00	5.74E+00	6.00E+00	6.18E+00	6.45E+00	6.58E+00	6.79E+00	6.89E+00	6.94E+00	7.03E+00	7.06E+00	7.06E+00			
8.0E-01	5.64E-01	2.38E+00	2.80E+00	3.55E+00	4.05E+00	4.96E+00	5.35E+00	5.62E+00	5.80E+00	6.07E+00	6.19E+00	6.40E+00	6.51E+00	6.55E+00	6.65E+00	6.68E+00	6.68E+00			
1.0E+00	5.12E-01	1.84E+00	2.08E+00	2.84E+00	3.33E+00	4.24E+00	4.59E+00	4.86E+00	5.03E+00	5.30E+00	5.43E+00	5.64E+00	5.74E+00	5.78E+00	5.88E+00	5.91E+00	5.90E+00			
1.2E+00	4.58E-01	1.34E+00	1.48E+00	2.23E+00	2.73E+00	3.61E+00	3.92E+00	4.19E+00	4.37E+00	4.64E+00	4.76E+00	4.96E+00	5.07E+00	5.11E+00	5.21E+00	5.23E+00	5.23E+00			
1.4E+00	4.22E-01	9.66E-01	1.06E+00	1.81E+00	2.30E+00	3.15E+00	3.42E+00	3.69E+00	3.87E+00	4.13E+00	4.26E+00	4.46E+00	4.56E+00	4.60E+00	4.70E+00	4.72E+00	4.72E+00			
1.6E+00	3.93E-01	7.13E-01	7.95E-01	1.53E+00	2.01E+00	2.82E+00	3.05E+00	3.32E+00	3.50E+00	3.76E+00	3.89E+00	4.08E+00	4.18E+00	4.23E+00	4.32E+00	4.35E+00	4.35E+00			
1.8E+00	3.67E-01	5.57E-01	6.37E-01	1.35E+00	1.82E+00	2.59E+00	2.78E+00	3.05E+00	3.23E+00	3.49E+00	3.62E+00	3.80E+00	3.90E+00	3.95E+00	4.04E+00	4.07E+00	4.07E+00			
2.0E+00	3.42E-01	4.68E-01	5.48E-01	1.24E+00	1.70E+00	2.41E+00	2.57E+00	2.84E+00	3.01E+00	3.28E+00	3.40E+00	3.58E+00	3.68E+00	3.73E+00	3.82E+00	3.85E+00	3.84E+00			
2.4E+00	2.90E-01	3.81E-01	4.50E-01	1.08E+00	1.50E+00	2.08E+00	2.19E+00	2.45E+00	2.63E+00	2.89E+00	3.02E+00	3.17E+00	3.27E+00	3.32E+00	3.41E+00	3.44E+00	3.44E+00			
3.0E+00	2.17E-01	3.04E-01	3.43E-01	8.47E-01	1.18E+00	1.58E+00	1.64E+00	1.90E+00	2.08E+00	2.33E+00	2.45E+00	2.58E+00	2.68E+00	2.73E+00	2.82E+00	2.85E+00	2.85E+00			
4.0E+00	1.27E-01	1.75E-01	1.85E-01	4.70E-01	6.64E-01	8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1x10-1
1x100
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1x102
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102
101
100
10-1
10-2
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59Pr
Σi Ji(Q)
Q

Z=60

Compton profiles for the single orbitals and binding energies

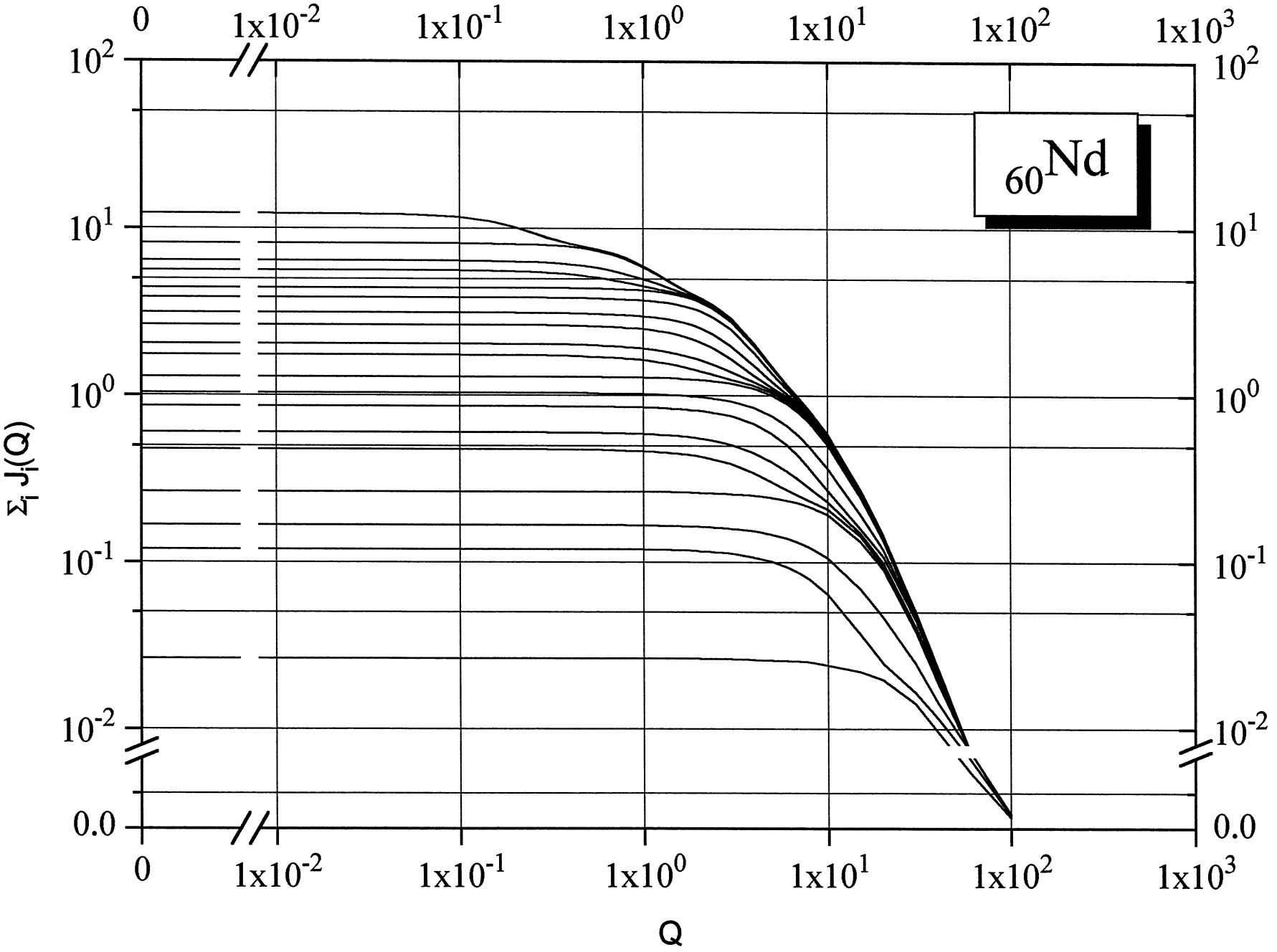
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(4)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	1.32E-02	4.70E-02	2.33E-02	2.48E-02	1.06E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.28E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	5.97E-01	4.07E-01	4.34E-01	2.13E+00	1.24E+01
5.0E-02	1.32E-02	4.70E-02	2.33E-02	2.48E-02	1.06E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.28E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	5.95E-01	4.07E-01	4.34E-01	2.03E+00	1.22E+01
1.0E-01	1.32E-02	4.70E-02	2.33E-02	2.48E-02	1.06E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.28E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	5.87E-01	4.07E-01	4.34E-01	1.77E+00	1.17E+01
1.5E-01	1.32E-02	4.70E-02	2.33E-02	2.48E-02	1.06E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.27E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	5.75E-01	4.07E-01	4.34E-01	1.42E+00	1.10E+01
2.0E-01	1.32E-02	4.70E-02	2.33E-02	2.48E-02	1.06E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.26E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	5.58E-01	4.06E-01	4.33E-01	1.04E+00	1.02E+01
3.0E-01	1.32E-02	4.70E-02	2.33E-02	2.48E-02	1.06E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.23E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	5.13E-01	4.03E-01	4.28E-01	4.52E-01	8.83E+00
4.0E-01	1.32E-02	4.70E-02	2.33E-02	2.48E-02	1.05E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.19E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	4.57E-01	3.95E-01	4.18E-01	1.67E-01	8.13E+00
5.0E-01	1.32E-02	4.69E-02	2.33E-02	2.48E-02	1.05E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.13E-01	1.46E-01	1.52E-01	1.21E-01	1.23E-01	1.41E-01	3.93E-01	3.82E-01	4.00E-01	7.99E-02	7.72E+00
6.0E-01	1.32E-02	4.69E-02	2.33E-02	2.48E-02	1.04E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.07E-01	1.46E-01	1.51E-01	1.21E-01	1.23E-01	1.41E-01	3.29E-01	3.61E-01	3.74E-01	6.64E-02	7.40E+00
7.0E-01	1.32E-02	4.68E-02	2.33E-02	2.48E-02	1.03E-01	6.28E-02	6.54E-02	4.31E-02	4.36E-02	2.00E-01	1.45E-01	1.51E-01	1.21E-01	1.23E-01	1.40E-01	2.67E-01	3.34E-01	3.42E-01	6.57E-02	7.07E+00
8.0E-01	1.32E-02	4.68E-02	2.33E-02	2.48E-02	1.02E-01	6.27E-02	6.54E-02	4.31E-02	4.36E-02	1.92E-01	1.45E-01	1.50E-01	1.21E-01	1.23E-01	1.40E-01	2.11E-01	3.03E-01	3.03E-01	6.06E-02	6.71E+00
1.0E+00	1.32E-02	4.66E-02	2.33E-02	2.48E-02	1.01E-01	6.27E-02	6.53E-02	4.31E-02	4.36E-02	1.75E-01	1.43E-01	1.48E-01	1.21E-01	1.22E-01	1.38E-01	1.25E-01	2.31E-01	2.22E-01	3.94E-02	5.96E+00
1.2E+00	1.32E-02	4.64E-02	2.33E-02	2.48E-02	9.82E-02	6.27E-02	6.53E-02	4.31E-02	4.36E-02	1.56E-01	1.40E-01	1.45E-01	1.20E-01	1.22E-01	1.35E-01	7.38E-02	1.61E-01	1.48E-01	2.01E-02	5.31E+00
1.4E+00	1.32E-02	4.62E-02	2.33E-02	2.48E-02	9.54E-02	6.26E-02	6.52E-02	4.31E-02	4.36E-02	1.36E-01	1.36E-01	1.41E-01	1.19E-01	1.21E-01	1.30E-01	4.91E-02	1.04E-01	9.10E-02	9.29E-03	4.80E+00
1.6E+00	1.32E-02	4.60E-02	2.33E-02	2.48E-02	9.24E-02	6.25E-02	6.51E-02	4.31E-02	4.36E-02	1.16E-01	1.31E-01	1.34E-01	1.18E-01	1.19E-01	1.24E-01	4.05E-02	6.41E-02	5.35E-02	4.67E-03	4.42E+00
1.8E+00	1.32E-02	4.57E-02	2.33E-02	2.48E-02	8.91E-02	6.23E-02	6.49E-02	4.31E-02	4.36E-02	9.82E-02	1.25E-01	1.27E-01	1.16E-01	1.17E-01	1.18E-01	3.90E-02	3.87E-02	3.17E-02	3.21E-03	4.13E+00
2.0E+00	1.32E-02	4.54E-02	2.33E-02	2.48E-02	8.56E-02	6.21E-02	6.46E-02	4.31E-02	4.36E-02	8.16E-02	1.17E-01	1.18E-01	1.12E-01	1.13E-01	1.10E-01	3.89E-02	2.45E-02	2.06E-02	2.95E-03	3.91E+00
2.4E+00	1.31E-02	4.46E-02	2.32E-02	2.48E-02	7.79E-02	6.14E-02	6.38E-02	4.31E-02	4.36E-02	5.48E-02	9.87E-02	9.77E-02	1.03E-01	1.04E-01	9.51E-02	3.46E-02	1.52E-02	1.46E-02	2.84E-03	3.51E+00
3.0E+00	1.31E-02	4.34E-02	2.32E-02	2.47E-02	6.57E-02	5.98E-02	6.19E-02	4.29E-02	4.35E-02	3.11E-02	6.93E-02	6.62E-02	8.47E-02	8.47E-02	7.33E-02	2.05E-02	1.43E-02	1.40E-02	1.82E-03	2.92E+00
4.0E+00	1.30E-02	4.07E-02	2.32E-02	2.47E-02	4.59E-02	5.52E-02	5.64E-02	4.24E-02	4.29E-02	2.07E-02	3.09E-02	2.77E-02	5.05E-02	4.97E-02	4.48E-02	5.58E-03	9.19E-03	7.86E-03	4.74E-04	2.06E+00
5.0E+00	1.29E-02	3.76E-02	2.30E-02	2.45E-02	2.97E-02	4.82E-02	4.84E-02	4.12E-02	4.17E-02	2.02E-02	1.31E-02	1.19E-02	2.49E-02	2.41E-02	2.64E-02	3.37E-03	3.57E-03	2.79E-03	2.39E-04	1.50E+00
6.0E+00	1.28E-02	3.41E-02	2.28E-02	2.42E-02	1.86E-02	3.98E-02	3.90E-02	3.91E-02	3.94E-02	1.68E-02	8.50E-03	8.67E-03	1.11E-02	1.06E-02	1.53E-02	3.22E-03	1.43E-03	1.21E-03	2.29E-04	1.17E+00
7.0E+00	1.27E-02	3.04E-02	2.25E-02	2.39E-02	1.21E-02	3.10E-02	2.96E-02	3.61E-02	3.63E-02	1.12E-02	8.14E-03	8.52E-03	5.29E-03	5.07E-03	8.89E-03	2.42E-03	1.04E-03	1.02E-03	1.76E-04	9.65E-01
8.0E+00	1.26E-02	2.68E-02	2.21E-02	2.33E-02	8.97E-03	2.29E-02	2.13E-02	3.24E-02	3.25E-02	6.51E-03	7.80E-03	7.86E-03	3.44E-03	3.39E-03	5.16E-03	1.46E-03	1.03E-03	9.96E-04	1.07E-04	8.14E-01
1.0E+01	1.20E-02	2.00E-02	2.10E-02	2.20E-02	7.70E-03	1.10E-02	9.80E-03	2.40E-02	2.40E-02	2.30E-03	5.10E-03	4.70E-03	3.10E-03	3.10E-03	1.60E-03	4.40E-04	7.50E-04	6.50E-04	3.20E-05	5.90E-01
1.5E+01	1.10E-02	7.50E-03	1.60E-02	1.60E-02	5.50E-03	2.40E-03	2.50E-03	8.90E-03	8.80E-03	1.80E-03	7.10E-04	6.30E-04	1.80E-03	1.70E-03	1.60E-04	2.50E-04	1.00E-04	8.30E-05	1.80E-05	2.70E-01
2.0E+01	9.80E-03	2.50E-03	1.10E-02	1.10E-02	1.90E-03	2.20E-03	2.30E-03	2.80E-03	2.60E-03	6.00E-04	4.20E-04	4.70E-04	6.20E-04	5.80E-04	2.10E-05	1.00E-04	5.50E-05	5.60E-05	7.10E-06	1.40E-01
3.0E+01	7.10E-03	1.20E-03	4.10E-03	3.50E-03	2.60E-04	1.10E-03	1.00E-03	3.00E-04	2.70E-04	6.10E-05	2.50E-04	2.30E-04	6.80E-05	6.10E-05	7.10E-07	9.50E-06	3.30E-05	2.90E-05	6.70E-07	5.10E-02
4.0E+01	4.80E-03	1.00E-03	1.40E-03	1.10E-03	2.30E-04	4.00E-04	3.20E-04	4.30E-05	3.70E-05	5.20E-05	9.00E-05	7.30E-05	9.70E-06	8.30E-06	4.90E-08	8.00E-06	1.20E-05	9.10E-06	5.60E-07	2.30E-02
6.0E+01	2.00E-03	4.60E-04	2.00E-04	1.30E-04	1.10E-04	5.50E-05	3.60E-05	2.00E-06	1.50E-06	2.50E-05	1.20E-05	8.10E-06	4.30E-07	3.30E-07	8.20E-10	3.80E-06	1.60E-06	9.90E-07	2.70E-07	6.50E-03
1.0E+02	3.90E-04	7.20E-05	1.20E-05	5.20E-06	1.60E-05	3.00E-06	1.30E-06	3.00E-08	1.80E-08	3.70E-06	6.50E-07	3.00E-07	6.40E-09	3.90E-09	4.80E-12	5.70E-07	8.60E-08	3.70E-08	4.00E-08	1.00E-03
E[keV]:	4.36E+01	7.13E+00	6.72E+00	6.21E+00	1.58E+00	1.40E+00	1.30E+00	1.00E+00	9.78E-01	3.21E-01	2.30E-01	2.30E-01	1.24E-01	1.21E-01	0.00E+00	3.80E-02	2.20E-02	2.20E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(4)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.78E-01	6.04E-01	8.65E-01	1.04E+00	1.30E+00	1.76E+00	2.05E+00	2.66E+00	3.14E+00	3.88E+00	4.44E+00	5.64E+00	6.45E+00	8.19E+00	1.24E+01	1.24E+01
5.0E-02	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.78E-01	6.04E-01	8.65E-01	1.04E+00	1.30E+00	1.76E+00	2.05E+00	2.66E+00	3.14E+00	3.88E+00	4.44E+00	5.63E+00	6.45E+00	8.18E+00	1.22E+01	1.22E+01
1.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.78E-01	6.04E-01	8.65E-01	1.04E+00	1.30E+00	1.76E+00	2.05E+00	2.66E+00	3.14E+00	3.88E+00	4.44E+00	5.62E+00	6.43E+00	8.17E+00	1.17E+01	1.17E+01
1.5E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.78E-01	6.04E-01	8.65E-01	1.04E+00	1.30E+00	1.75E+00	2.05E+00	2.65E+00	3.14E+00	3.88E+00	4.44E+00	5.59E+00	6.40E+00	8.14E+00	1.10E+01	1.10E+01
2.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.78E-01	6.04E-01	8.65E-01	1.04E+00	1.30E+00	1.75E+00	2.04E+00	2.65E+00	3.14E+00	3.87E+00	4.44E+00	5.55E+00	6.37E+00	8.10E+00	1.02E+01	1.02E+01
3.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.78E-01	6.04E-01	8.65E-01	1.04E+00	1.30E+00	1.75E+00	2.04E+00	2.65E+00	3.13E+00	3.87E+00	4.43E+00	5.46E+00	6.26E+00	7.98E+00	8.88E+00	8.83E+00
4.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.76E-01	6.02E-01	8.63E-01	1.04E+00	1.30E+00	1.74E+00	2.03E+00	2.64E+00	3.12E+00	3.86E+00	4.42E+00	5.34E+00	6.13E+00	7.80E+00	8.13E+00	8.13E+00
5.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.76E-01	6.02E-01	8.63E-01	1.04E+00	1.30E+00	1.72E+00	2.02E+00	2.62E+00	3.11E+00	3.85E+00	4.41E+00	5.20E+00	5.96E+00	7.56E+00	7.72E+00	7.72E+00
6.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.74E-01	6.00E-01	8.61E-01	1.03E+00	1.30E+00	1.71E+00	2.00E+00	2.61E+00	3.09E+00	3.83E+00	4.39E+00	5.05E+00	5.77E+00	7.27E+00	7.40E+00	7.40E+00
7.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.72E-01	5.97E-01	8.59E-01	1.03E+00	1.29E+00	1.69E+00	1.98E+00	2.59E+00	3.07E+00	3.81E+00	4.37E+00	4.90E+00	5.57E+00	6.94E+00	7.07E+00	7.07E+00
8.0E-01	2.64E-02	1.20E-01	1.67E-01	2.66E-01	4.70E-01	5.95E-01	8.57E-01	1.03E+00	1.29E+00	1.67E+00	1.96E+00	2.56E+00	3.05E+00	3.79E+00	4.35E+00	4.78E+00	5.37E+00	6.59E+00	6.71E+00	6.71E+00
1.0E+00	2.64E-02	1.20E-01	1.66E-01	2.65E-01	4.67E-01	5.93E-01	8.54E-01	1.03E+00	1.29E+00	1.64E+00	1.92E+00	2.52E+00	3.00E+00	3.73E+00	4.28E+00	4.53E+00	5.00E+00	5.88E+00	5.96E+00	5.96E+00
1.2E+00	2.64E-02	1.19E-01	1.66E-01	2.65E-01	4.61E-01	5.87E-01	8.48E-01	1.02E+00	1.28E+00	1.59E+00	1.87E+00	2.45E+00	2.93E+00	3.67E+00	4.21E+00	4.35E+00	4.68E+00	5.27E+00	5.31E+00	5.31E+00
1.4E+00	2.64E-02	1.19E-01	1.65E-01	2.65E-01	4.55E-01	5.81E-01	8.41E-01	1.01E+00	1.28E+00	1.55E+00	1.82E+00	2.38E+00	2.86E+00	3.59E+00	4.11E+00	4.20E+00	4.41E+00	4.78E+00	4.79E+00	4.80E+00
1.6E+00	2.64E-02	1.18E-01	1.65E-01	2.64E-01	4.49E-01	5.74E-01	8.34E-01	1.01E+00	1.27E+00	1.50E+00	1.76E+00	2.30E+00	2.77E+00	3.48E+00	3.98E+00	4.06E+00	4.19E+00	4.40E+00	4.41E+00	4.42E+00
1.8E+00	2.64E-02	1.18E-01	1.64E-01	2.64E-01	4.42E-01	5.66E-01	8.26E-01	9.98E-01	1.26E+00	1.46E+00	1.71E+00	2.21E+00	2.68E+00	3.38E+00	3.85E+00	3.93E+00	4.01E+00	4.13E+00	4.14E+00	4.13E+00
2.0E+00	2.64E-02	1.17E-01	1.64E-01	2.63E-01	4.34E-01	5.58E-01	8.17E-01	9.89E-01	1.25E+00	1.41E+00	1.65E+00	2.12E+00	2.57E+00	3.25E+00	3.69E+00	3.76E+00	3.81E+00	3.90E+00	3.90E+00	3.91E+00
2.4E+00	2.62E-02	1.15E-01	1.62E-01	2.61E-01	4.17E-01	5.40E-01	7.95E-01	9.67E-01	1.23E+00	1.34E+00	1.54E+00	1.93E+00	2.34E+00	2.96E+00	3.34E+00	3.41E+00	3.44E+00	3.50E+00	3.51E+00	3.51E+00
3.0E+00	2.62E-02	1.13E-01	1.59E-01	2.58E-01	3.90E-01	5.09E-01	7.57E-01	9.28E-01	1.19E+00	1.25E+00	1.39E+00	1.66E+00	1.99E+00	2.50E+00	2.80E+00	2.84E+00	2.86E+00	2.92E+00	2.92E+00	2.92E+00
4.0E+00	2.60E-02	1.07E-01	1.54E-01	2.53E-01	3.44E-01	4.55E-01	6.80E-01	8.50E-01	1.11E+00	1.15E+00	1.21E+00	1.32E+00	1.52E+00	1.82E+00	2.00E+00	2.01E+00	2.03E+00	2.06E+00	2.06E+00	2.06E+00
5.0E+00	2.58E-02	1.01E-01	1.47E-01	2.45E-01	3.04E-01	4.01E-01	5.94E-01	7.59E-01	1.01E+00	1.05E+00	1.08E+00	1.12E+00	1.22E+00	1.37E+00	1.47E+00	1.48E+00	1.49E+00	1.50E+00	1.50E+00	1.50E+00
6.0E+00	2.56E-02	9.38E-02	1.39E-01	2.36E-01	2.73E-01	3.53E-01	5.09E-01	6.65E-01	9.02E-01	9.35E-01	9.52E-01	9.87E-01	1.03E+00	1.10E+00	1.16E+00	1.16E+00	1.17E+00	1.17E+00	1.17E+00	1.17E+00
7.0E+00	2.54E-02	8.62E-02	1.31E-01	2.27E-01	2.51E-01	3.13E-01	4.37E-01	5.76E-01	7.94E-01	8.16E-01	8.32E-01	8.68E-01	9.18E-01	9.54E-01	9.58E-01	9.60E-01	9.65E-01	9.65E-01	9.65E-01	9.65E-01
8.0E+00	2.52E-02	7.88E-02	1.23E-01	2.18E-01	2.30E-01	2.85E-01	3.85E-01	4.95E-01	6.90E-01	7.03E-01	7.18E-01	7.50E-01	7.64E-01	7.84E-01	8.05E-01	8.08E-01	8.10E-01	8.14E-01	8.14E-01	8.14E-01
1.0E+01	2.40E-02	6.40E-02	1.06E-01	1.94E-01	2.09E-01	2.31E-01	2.71E-01	3.67E-01	5.11E-01	5.15E-01	5.25E-01	5.44E-01	5.57E-01	5.75E-01	5.82E-01	5.83E-01	5.85E-01	5.87E-01	5.87E-01	5.90E-01
1.5E+01	2.20E-02	3.70E-02	6.90E-02	1.33E-01	1.44E-01	1.49E-01	1.59E-01	1.94E-01	2.46E-01	2.49E-01	2.51E-01	2.53E-01	2.60E-01	2.71E-01	2.71E-01	2.72E-01	2.72E-01	2.72E-01	2.72E-01	2.70E-01
2.0E+01	1.96E-02	2.46E-02	4.66E-02	9.06E-02	9.44E-02	9.88E-02	1.08E-01	1.19E-01	1.35E-01	1.36E-01	1.37E-01	1.39E-01	1.41E-01	1.45E-01	1.45E-01	1.45E-01	1.45E-01	1.45E-01	1.45E-01	1.40E-01
3.0E+01	1.42E-02	1.66E-02	2.48E-02	3.88E-02	3.93E-02	4.15E-02	4.55E-02	4.67E-02	4.83E-02	4.85E-02	4.90E-02	4.99E-02	5.02E-02	5.05E-02	5.05E-02	5.05E-02	5.06E-02	5.07E-02	5.07E-02	5.10E-02
4.0E+01	9.60E-03	1.16E-02	1.44E-02	1.88E-02	1.93E-02	2.01E-02	2.13E-02	2.15E-02	2.17E-02	2.18E-02	2.20E-02	2.23E-02	2.23E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.25E-02	2.25E-02	2.30E-02
6.0E+01	4.00E-03	4.92E-03	5.32E-03	5.84E-03	6.06E-03	6.17E-03	6.31E-03	6.32E-03	6.33E-03	6.38E-03	6.40E-03	6.44E-03	6.44E-03	6.44E-03	6.44E-03	6.45E-03	6.45E-03	6.46E-03	6.46E-03	6.50E-03
1.0E+02	7.80E-04	9.24E-04	9.48E-04	9.69E-04	1.00E-03	1.01E-03	1.01E-03	1.01E-03	1.01E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.00E-03
E[keV]:	4.36E+01	7.13E+00	6.72E+00	6.21E+00	1.58E+00	1.40E+00	1.30E+00	1.00E+00	9.78E-01	3.21E-01	2.30E-01	2.30E-01	1.24E-01	1.21E-01	0.00E+00	3.80E-02	2.20E-02	2.20E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																				
0.0E+00	4.82E+00	7.37E+00	8.57E+00	9.31E+00	9.79E+00	1.07E+01	1.11E+01	1.14E+01	1.16E+01	1.18E+01	1.20E+01	1.22E+01	1.23E+01	1.23E+01	1.24E+01	1.24E+01	1.24E+01			
5.0E-02	4.62E+00	7.17E+00	8.36E+00	9.10E+00	9.59E+00	1.05E+01	1.09E+01	1.12E+01	1.14E+01	1.16E+01	1.18E+01	1.20E+01	1.21E+01	1.21E+01	1.22E+01	1.22E+01	1.22E+01			
1.0E-01	4.10E+00	6.65E+00	7.83E+00	8.57E+00	9.05E+00	9.95E+00	1.04E+01	1.07E+01	1.08E+01	1.11E+01	1.12E+01	1.14E+01	1.15E+01	1.16E+01	1.17E+01	1.17E+01	1.17E+01			
1.5E-01	3.40E+00	5.95E+00	7.10E+00	7.84E+00	8.33E+00	9.23E+00	9.68E+00	9.94E+00	1.01E+01	1.04E+01	1.05E+01	1.07E+01	1.08E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01			
2.0E-01	2.64E+00	5.19E+00	6.30E+00	7.04E+00	7.53E+00	8.43E+00	8.88E+00	9.14E+00	9.31E+00	9.57E+00	9.70E+00	9.91E+00	1.00E+01	1.01E+01	1.02E+01	1.02E+01	1.02E+01			
3.0E-01	1.47E+00	3.99E+00	5.01E+00	5.75E+00	6.23E+00	7.13E+00	7.58E+00	7.84E+00	8.01E+00	8.28E+00	8.40E+00	8.61E+00	8.71E+00	8.76E+00	8.85E+00	8.88E+00	8.83E+00			
4.0E-01	8.98E-01	3.36E+00	4.27E+00	5.01E+00	5.50E+00	6.40E+00	6.83E+00	7.10E+00	7.27E+00	7.53E+00	7.66E+00	7.87E+00	7.96E+00	8.01E+00	8.10E+00	8.13E+00	8.13E+00			
5.0E-01	7.24E-01	3.09E+00	3.87E+00	4.61E+00	5.10E+00	6.00E+00	6.42E+00	6.68E+00	6.86E+00	7.12E+00	7.24E+00	7.45E+00	7.55E+00	7.60E+00	7.69E+00	7.72E+00	7.72E+00			
6.0E-01	6.97E-01	2.91E+00	3.57E+00	4.29E+00	4.79E+00	5.69E+00	6.11E+00	6.37E+00	6.54E+00	6.80E+00	6.93E+00	7.13E+00	7.23E+00	7.28E+00	7.37E+00	7.40E+00	7.40E+00			
7.0E-01	6.91E-01	2.73E+00	3.26E+00	4.00E+00	4.48E+00	5.38E+00	5.78E+00	6.04E+00	6.21E+00	6.47E+00	6.60E+00	6.80E+00	6.90E+00	6.95E+00	7.04E+00	7.07E+00	7.07E+00			
8.0E-01	6.81E-01	2.50E+00	2.92E+00	3.66E+00	4.14E+00	5.03E+00	5.42E+00	5.68E+00	5.85E+00	6.11E+00	6.24E+00	6.44E+00	6.54E+00	6.59E+00	6.68E+00	6.71E+00	6.71E+00			
1.0E+00	6.31E-01	1.98E+00	2.23E+00	2.96E+00	3.45E+00	4.32E+00	4.67E+00	4.94E+00	5.11E+00	5.37E+00	5.50E+00	5.70E+00	5.80E+00	5.84E+00	5.94E+00	5.96E+00	5.96E+00			
1.2E+00	5.80E-01	1.49E+00	1.64E+00	2.37E+00	2.85E+00	3.71E+00	4.03E+00	4.29E+00	4.46E+00	4.72E+00	4.85E+00	5.04E+00	5.14E+00	5.19E+00	5.28E+00	5.31E+00	5.31E+00			
1.4E+00	5.39E-01	1.11E+00	1.21E+00	1.93E+00	2.41E+00	3.25E+00	3.52E+00	3.78E+00	3.95E+00	4.21E+00	4.34E+00	4.53E+00	4.63E+00	4.68E+00	4.77E+00	4.79E+00	4.80E+00			
1.6E+00	5.05E-01	8.48E-01	9.29E-01	1.64E+00	2.11E+00	2.91E+00	3.14E+00	3.41E+00	3.58E+00	3.84E+00	3.96E+00	4.15E+00	4.25E+00	4.29E+00	4.39E+00	4.41E+00	4.42E+00			
1.8E+00	4.78E-01	6.83E-01	7.61E-01	1.46E+00	1.93E+00	2.68E+00	2.88E+00	3.14E+00	3.32E+00	3.57E+00	3.70E+00	3.88E+00	3.98E+00	4.02E+00	4.11E+00	4.14E+00	4.13E+00			
2.0E+00	4.46E-01	5.77E-01	6.55E-01	1.33E+00	1.78E+00	2.49E+00	2.65E+00	2.91E+00	3.08E+00	3.34E+00	3.47E+00	3.64E+00	3.74E+00	3.78E+00	3.87E+00	3.90E+00	3.91E+00			
2.4E+00	3.86E-01	4.75E-01	5.44E-01	1.17E+00	1.58E+00	2.17E+00	2.28E+00	2.54E+00	2.71E+00	2.97E+00	3.09E+00	3.25E+00	3.34E+00	3.39E+00	3.48E+00	3.51E+00	3.51E+00			
3.0E+00	2.97E-01	3.81E-01	4.22E-01	9.31E-01	1.27E+00	1.67E+00	1.74E+00	2.00E+00	2.17E+00	2.42E+00	2.53E+00	2.67E+00	2.77E+00	2.81E+00	2.90E+00	2.92E+00	2.92E+00			
4.0E+00	1.80E-01	2.30E-01	2.41E-01	5.39E-01	7.41E-01	9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10^-2
0.0
60Nd
Σ_i J_i(Q)
Q

Z=61

Compton profiles for the single orbitals and binding energies

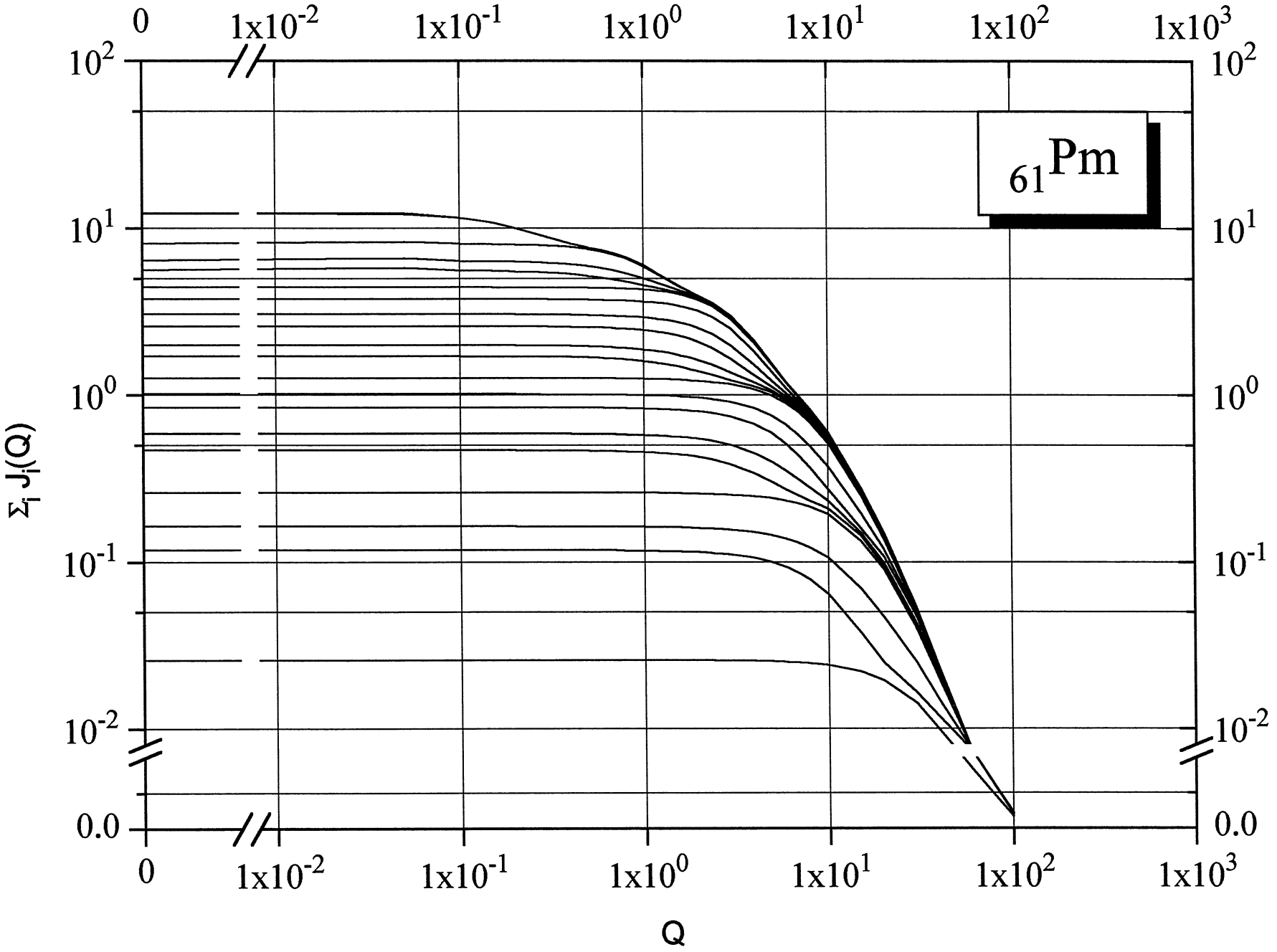
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(5)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	1.29E-02	4.61E-02	2.28E-02	2.43E-02	1.04E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.23E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	5.86E-01	3.99E-01	4.27E-01	2.11E+00	1.23E+01
5.0E-02	1.29E-02	4.61E-02	2.28E-02	2.43E-02	1.04E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.23E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	6.84E-01	3.99E-01	4.27E-01	2.01E+00	1.22E+01
1.0E-01	1.29E-02	4.61E-02	2.28E-02	2.43E-02	1.04E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.22E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	5.76E-01	3.99E-01	4.27E-01	1.76E+00	1.16E+01
1.5E-01	1.29E-02	4.61E-02	2.28E-02	2.43E-02	1.04E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.21E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	5.65E-01	3.99E-01	4.27E-01	1.41E+00	1.09E+01
2.0E-01	1.29E-02	4.61E-02	2.28E-02	2.43E-02	1.04E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.20E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	5.49E-01	3.98E-01	4.26E-01	1.05E+00	1.01E+01
3.0E-01	1.29E-02	4.60E-02	2.28E-02	2.43E-02	1.03E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.18E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	5.06E-01	3.95E-01	4.22E-01	4.62E-01	8.86E+00
4.0E-01	1.29E-02	4.60E-02	2.28E-02	2.43E-02	1.03E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.14E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	4.53E-01	3.88E-01	4.12E-01	1.73E-01	8.11E+00
5.0E-01	1.29E-02	4.60E-02	2.28E-02	2.43E-02	1.02E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.09E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	3.92E-01	3.75E-01	3.96E-01	8.02E-02	7.70E+00
6.0E-01	1.29E-02	4.59E-02	2.28E-02	2.43E-02	1.02E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	2.03E-01	1.42E-01	1.48E-01	1.18E-01	1.19E-01	1.34E-01	3.30E-01	3.57E-01	3.71E-01	6.44E-02	7.39E+00
7.0E-01	1.29E-02	4.59E-02	2.28E-02	2.43E-02	1.01E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	1.96E-01	1.42E-01	1.47E-01	1.18E-01	1.19E-01	1.34E-01	2.70E-01	3.32E-01	3.40E-01	6.37E-02	7.08E+00
8.0E-01	1.29E-02	4.58E-02	2.28E-02	2.43E-02	1.00E-01	6.13E-02	6.40E-02	4.21E-02	4.26E-02	1.89E-01	1.41E-01	1.47E-01	1.18E-01	1.19E-01	1.34E-01	2.16E-01	3.02E-01	3.04E-01	5.96E-02	6.74E+00
1.0E+00	1.29E-02	4.57E-02	2.28E-02	2.43E-02	9.85E-02	6.13E-02	6.39E-02	4.21E-02	4.26E-02	1.72E-01	1.40E-01	1.45E-01	1.18E-01	1.19E-01	1.32E-01	1.30E-01	2.33E-01	2.25E-01	3.99E-02	6.02E+00
1.2E+00	1.29E-02	4.55E-02	2.28E-02	2.43E-02	9.63E-02	6.12E-02	6.39E-02	4.21E-02	4.26E-02	1.54E-01	1.37E-01	1.42E-01	1.17E-01	1.19E-01	1.30E-01	7.67E-02	1.66E-01	1.52E-01	2.10E-02	5.37E+00
1.4E+00	1.29E-02	4.53E-02	2.28E-02	2.43E-02	9.37E-02	6.12E-02	6.38E-02	4.21E-02	4.26E-02	1.36E-01	1.34E-01	1.38E-01	1.17E-01	1.18E-01	1.26E-01	5.02E-02	1.10E-01	9.53E-02	9.86E-03	4.86E+00
1.6E+00	1.29E-02	4.51E-02	2.28E-02	2.43E-02	9.09E-02	6.11E-02	6.37E-02	4.21E-02	4.26E-02	1.17E-01	1.29E-01	1.32E-01	1.15E-01	1.16E-01	1.21E-01	4.02E-02	6.84E-02	5.67E-02	4.88E-03	4.48E+00
1.8E+00	1.29E-02	4.48E-02	2.28E-02	2.43E-02	8.78E-02	6.09E-02	6.35E-02	4.21E-02	4.26E-02	9.95E-02	1.23E-01	1.25E-01	1.13E-01	1.14E-01	1.15E-01	3.79E-02	4.17E-02	3.37E-02	3.18E-03	4.19E+00
2.0E+00	1.29E-02	4.45E-02	2.28E-02	2.43E-02	8.44E-02	6.07E-02	6.32E-02	4.21E-02	4.26E-02	8.33E-02	1.16E-01	1.17E-01	1.10E-01	1.11E-01	1.09E-01	3.78E-02	2.62E-02	2.15E-02	2.82E-03	3.96E+00
2.4E+00	1.29E-02	4.38E-02	2.28E-02	2.43E-02	7.72E-02	6.01E-02	6.25E-02	4.21E-02	4.26E-02	5.67E-02	9.89E-02	9.82E-02	1.02E-01	1.03E-01	9.50E-02	3.46E-02	1.52E-02	1.43E-02	2.73E-03	3.57E+00
3.0E+00	1.28E-02	4.26E-02	2.27E-02	2.43E-02	6.55E-02	5.87E-02	6.08E-02	4.20E-02	4.25E-02	3.22E-02	7.10E-02	6.80E-02	8.51E-02	8.51E-02	7.47E-02	2.15E-02	1.40E-02	1.37E-02	1.86E-03	3.00E+00
4.0E+00	1.28E-02	4.01E-02	2.27E-02	2.42E-02	4.65E-02	5.44E-02	5.58E-02	4.15E-02	4.20E-02	2.04E-02	3.29E-02	2.96E-02	5.24E-02	5.16E-02	4.70E-02	6.05E-03	9.56E-03	8.20E-03	5.08E-04	2.14E+00
5.0E+00	1.27E-02	3.71E-02	2.26E-02	2.41E-02	3.06E-02	4.80E-02	4.83E-02	4.05E-02	4.09E-02	1.99E-02	1.40E-02	1.26E-02	2.68E-02	2.60E-02	2.84E-02	3.30E-03	3.94E-03	3.05E-03	2.31E-04	1.55E+00
6.0E+00	1.26E-02	3.38E-02	2.24E-02	2.38E-02	1.93E-02	4.00E-02	3.94E-02	3.86E-02	3.89E-02	1.71E-02	8.57E-03	8.63E-03	1.23E-02	1.17E-02	1.69E-02	3.18E-03	1.54E-03	1.26E-03	2.21E-04	1.20E+00
7.0E+00	1.25E-02	3.03E-02	2.21E-02	2.35E-02	1.25E-02	3.16E-02	3.03E-02	3.58E-02	3.61E-02	1.19E-02	7.99E-03	8.39E-03	5.82E-03	5.56E-03	9.98E-03	2.51E-03	1.03E-03	9.90E-04	1.78E-04	9.84E-01
8.0E+00	1.23E-02	2.68E-02	2.17E-02	2.30E-02	9.14E-03	2.38E-02	2.21E-02	3.24E-02	3.25E-02	7.10E-03	7.78E-03	7.91E-03	3.58E-03	3.50E-03	5.92E-03	1.58E-03	1.01E-03	9.75E-04	1.13E-04	8.28E-01
1.0E+01	1.20E-02	2.00E-02	2.10E-02	2.20E-02	7.60E-03	1.20E-02	1.00E-02	2.50E-02	2.40E-02	2.40E-03	5.40E-03	5.00E-03	3.00E-03	3.00E-03	2.10E-03	4.80E-04	7.80E-04	6.80E-04	3.40E-05	6.00E-01
1.5E+01	1.10E-02	7.80E-03	1.60E-02	1.60E-02	5.70E-03	2.50E-03	2.50E-03	9.30E-03	9.10E-03	1.60E-03	7.90E-04	6.80E-04	1.90E-03	1.80E-03	2.00E-04	2.50E-04	1.20E-04	8.90E-05	1.70E-05	2.80E-01
2.0E+01	9.70E-03	2.70E-03	1.10E-02	1.10E-02	2.10E-03	2.10E-03	2.30E-03	3.00E-03	2.90E-03	6.60E-04	4.20E-04	4.70E-04	6.80E-04	6.40E-04	2.60E-05	1.10E-04	5.40E-05	5.50E-05	7.50E-06	1.50E-01
3.0E+01	7.10E-03	1.10E-03	4.30E-03	3.70E-03	2.60E-04	1.20E-03	1.10E-03	3.40E-04	3.00E-04	6.40E-05	2.60E-04	2.50E-04	7.80E-05	6.90E-05	9.20E-07	1.00E-05	3.50E-05	3.00E-05	6.90E-07	5.30E-02
4.0E+01	4.90E-03	1.00E-03	1.50E-03	1.20E-03	2.30E-04	4.30E-04	1.50E-04	4.90E-05	4.20E-05	5.20E-05	9.80E-05	8.00E-05	1.10E-05	9.60E-06	6.40E-08	7.90E-06	1.30E-05	9.70E-06	5.40E-07	2.30E-02
6.0E+01	2.10E-03	4.80E-04	2.20E-04	1.40E-04	1.10E-04	6.10E-05	4.00E-05	2.30E-06	1.80E-06	2.60E-05	1.40E-05	9.00E-06	5.10E-07	3.90E-07	1.10E-09	4.00E-06	1.80E-06	1.10E-06	2.80E-07	6.80E-03
1.0E+02	4.20E-04	7.80E-05	1.30E-05	5.80E-06	1.80E-05	3.40E-06	1.50E-06	3.50E-08	2.10E-08	4.00E-06	7.50E-07	3.40E-07	7.70E-09	4.70E-09	6.10E-12	6.20E-07	9.80E-08	4.10E-08	4.20E-08	1.10E-03
E[keV]:	4.52E+01	7.43E+00	7.01E+00	6.46E+00	1.66E+00	1.48E+00	1.36E+00	1.06E+00	1.03E+00	3.37E-01	2.42E-01	2.42E-01	1.33E-01	1.29E-01	0.00E+00	3.80E-02	2.20E-02	2.20E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(5)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	2.58E-02	1.18E-01	1.64E-01	2.61E-01	4.69E-01	5.91E-01	8.47E-01	1.02E+00	1.27E+00	1.72E+00	2.00E+00	2.59E+00	3.07E+00	3.78E+00	4.45E+00	5.62E+00	6.42E+00	8.13E+00	1.23E+01	1.23E+01
5.0E-02	2.58E-02	1.18E-01	1.64E-01	2.61E-01	4.69E-01	5.91E-01	8.47E-01	1.02E+00	1.27E+00	1.72E+00	2.00E+00	2.59E+00	3.07E+00	3.78E+00	4.45E+00	5.62E+00	6.62E+00	8.32E+00	1.23E+01	1.22E+01
1.0E-01	2.58E-02	1.18E-01	1.64E-01	2.61E-01	4.69E-01	5.91E-01	8.47E-01	1.02E+00	1.27E+00	1.72E+00	2.00E+00	2.59E+00	3.06E+00	3.78E+00	4.45E+00	5.60E+00	6.60E+00	8.11E+00	1.16E+01	1.16E+01
1.5E-01	2.58E-02	1.18E-01	1.64E-01	2.61E-01	4.69E-01	5.91E-01	8.47E-01	1.02E+00	1.27E+00	1.71E+00	2.00E+00	2.59E+00	3.06E+00	3.78E+00	4.45E+00	5.58E+00	6.57E+00	8.08E+00	1.09E+01	1.09E+01
2.0E-01	2.58E-02	1.18E-01	1.64E-01	2.61E-01	4.69E-01	5.91E-01	8.47E-01	1.02E+00	1.27E+00	1.71E+00	2.00E+00	2.59E+00	3.06E+00	3.77E+00	4.44E+00	5.54E+00	6.54E+00	8.04E+00	1.01E+01	1.01E+01
3.0E-01	2.58E-02	1.18E-01	1.63E-01	2.61E-01	4.67E-01	5.89E-01	8.45E-01	1.01E+00	1.27E+00	1.71E+00	1.99E+00	2.58E+00	3.05E+00	3.77E+00	4.44E+00	5.45E+00	6.24E+00	7.93E+00	8.85E+00	8.86E+00
4.0E-01	2.58E-02	1.18E-01	1.63E-01	2.61E-01	4.67E-01	5.89E-01	8.45E-01	1.01E+00	1.27E+00	1.70E+00	1.98E+00	2.57E+00	3.05E+00	3.76E+00	4.43E+00	5.34E+00	6.11E+00	7.76E+00	8.11E+00	8.11E+00
5.0E-01	2.58E-02	1.18E-01	1.63E-01	2.61E-01	4.65E-01	5.87E-01	8.43E-01	1.01E+00	1.27E+00	1.69E+00	1.97E+00	2.56E+00	3.03E+00	3.75E+00	4.42E+00	5.20E+00	5.95E+00	7.54E+00	7.70E+00	7.70E+00
6.0E-01	2.58E-02	1.18E-01	1.63E-01	2.60E-01	4.64E-01	5.87E-01	8.43E-01	1.01E+00	1.27E+00	1.67E+00	1.96E+00	2.55E+00	3.02E+00	3.74E+00	4.41E+00	5.07E+00	5.78E+00	7.26E+00	7.39E+00	7.39E+00
7.0E-01	2.58E-02	1.18E-01	1.63E-01	2.60E-01	4.62E-01	5.85E-01	8.41E-01	1.01E+00	1.27E+00	1.66E+00	1.94E+00	2.53E+00	3.00E+00	3.72E+00	4.39E+00	4.93E+00	5.59E+00	6.95E+00	7.08E+00	7.08E+00
8.0E-01	2.58E-02	1.17E-01	1.63E-01	2.60E-01	4.60E-01	5.83E-01	8.39E-01	1.01E+00	1.26E+00	1.64E+00	1.92E+00	2.51E+00	2.98E+00	3.70E+00	4.37E+00	4.80E+00	5.40E+00	6.62E+00	6.74E+00	6.74E+00
1.0E+00	2.58E-02	1.17E-01	1.63E-01	2.60E-01	4.57E-01	5.80E-01	8.35E-01	1.00E+00	1.26E+00	1.60E+00	1.88E+00	2.46E+00	2.94E+00	3.65E+00	4.31E+00	4.57E+00	5.04E+00	5.94E+00	6.02E+00	6.02E+00
1.2E+00	2.58E-02	1.17E-01	1.62E-01	2.60E-01	4.52E-01	5.75E-01	8.30E-01	9.99E-01	1.25E+00	1.56E+00	1.84E+00	2.40E+00	2.87E+00	3.59E+00	4.24E+00	4.39E+00	4.72E+00	5.33E+00	5.37E+00	5.37E+00
1.4E+00	2.58E-02	1.16E-01	1.62E-01	2.59E-01	4.47E-01	5.69E-01	8.24E-01	9.93E-01	1.25E+00	1.52E+00	1.79E+00	2.34E+00	2.81E+00	3.52E+00	4.15E+00	4.25E+00	4.47E+00	4.85E+00	4.87E+00	4.86E+00
1.6E+00	2.58E-02	1.16E-01	1.62E-01	2.59E-01	4.41E-01	5.63E-01	8.18E-01	9.86E-01	1.24E+00	1.48E+00	1.73E+00	2.26E+00	2.72E+00	3.42E+00	4.02E+00	4.10E+00	4.24E+00	4.47E+00	4.48E+00	4.48E+00
1.8E+00	2.58E-02	1.15E-01	1.61E-01	2.58E-01	4.34E-01	5.56E-01	8.10E-01	9.78E-01	1.23E+00	1.43E+00	1.66E+00	2.18E+00	2.63E+00	3.31E+00	3.89E+00	3.97E+00	4.05E+00	4.18E+00	4.19E+00	4.19E+00
2.0E+00	2.58E-02	1.15E-01	1.60E-01	2.58E-01	4.26E-01	5.48E-01	8.01E-01	9.69E-01	1.22E+00	1.39E+00	1.62E+00	2.09E+00	2.53E+00	3.20E+00	3.74E+00	3.82E+00	3.87E+00	3.96E+00	3.96E+00	3.96E+00
2.4E+00	2.58E-02	1.13E-01	1.59E-01	2.56E-01	4.11E-01	5.31E-01	7.81E-01	9.49E-01	1.20E+00	1.32E+00	1.52E+00	1.91E+00	2.32E+00	2.93E+00	3.41E+00	3.48E+00	3.51E+00	3.57E+00	3.57E+00	3.57E+00
3.0E+00	2.56E-02	1.11E-01	1.56E-01	2.53E-01	3.84E-01	5.02E-01	7.45E-01	9.13E-01	1.17E+00	1.23E+00	1.37E+00	1.65E+00	1.99E+00	2.50E+00	2.87E+00	2.91E+00	2.94E+00	3.00E+00	3.00E+00	3.00E+00
4.0E+00	2.56E-02	1.06E-01	1.51E-01	2.48E-01	3.41E-01	4.50E-01	6.73E-01	8.39E-01	1.09E+00	1.13E+00	1.20E+00	1.32E+00	1.53E+00	1.84E+00	2.07E+00	2.08E+00	2.10E+00	2.13E+00	2.14E+00	2.14E+00
5.0E+00	2.54E-02	9.96E-02	1.45E-01	2.41E-01	3.02E-01	3.98E-01	5.92E-01	7.54E-01	9.99E-01	1.04E+00	1.07E+00	1.12E+00	1.22E+00	1.38E+00	1.52E+00	1.53E+00	1.54E+00	1.55E+00	1.55E+00	1.55E+00
6.0E+00	2.52E-02	9.28E-02	1.38E-01	2.33E-01	2.71E-01	3.51E-01	5.09E-01	6.63E-01	8.97E-01	9.31E-01	9.48E-01	9.83E-01	1.03E+00	1.10E+00	1.19E+00	1.19E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00
7.0E+00	2.50E-02	8.56E-02	1.30E-01	2.24E-01	2.49E-01	3.12E-01	4.33E-01	5.76E-01	7.93E-01	8.17E-01	8.33E-01	8.66E-01	8.90E-01	9.23E-01	9.73E-01	9.78E-01	9.80E-01	9.84E-01	9.84E-01	9.84E-01
8.0E+00	2.46E-02	7.82E-02	1.22E-01	2.14E-01	2.32E-01	2.79E-01	3.68E-01	4.97E-01	6.92E-01	7.07E-01	7.22E-01	7.54E-01	7.68E-01	7.89E-01	8.19E-01	8.22E-01	8.24E-01	8.28E-01	8.28E-01	8.28E-01
1.0E+01	2.40E-02	6.40E-02	1.06E-01	1.94E-01	2.09E-01	2.33E-01	2.73E-01	3.73E-01	5.17E-01	5.22E-01	5.33E-01	5.53E-01	5.65E-01	5.83E-01	5.93E-01	5.94E-01	5.96E-01	5.99E-01	5.99E-01	6.00E-01
1.5E+01	2.20E-02	3.76E-02	6.96E-02	1.34E-01	1.45E-01	1.50E-01	1.60E-01	1.97E-01	2.52E-01	2.55E-01	2.57E-01	2.59E-01	2.67E-01	2.78E-01	2.79E-01	2.79E-01	2.79E-01	2.80E-01	2.80E-01	2.80E-01
2.0E+01	1.94E-02	2.48E-02	4.68E-02	9.08E-02	9.50E-02	9.92E-02	1.08E-01	1.20E-01	1.38E-01	1.39E-01	1.40E-01	1.42E-01	1.45E-01	1.48E-01	1.49E-01	1.49E-01	1.49E-01	1.49E-01	1.49E-01	1.50E-01
3.0E+01	1.42E-02	1.66E-02	2.50E-02	4.03E-02	4.27E-02	4.71E-02	4.85E-02	5.03E-02	5.04E-02	5.09E-02	5.19E-02	5.22E-02	5.27E-02	5.27E-02	5.27E-02	5.27E-02	5.29E-02	5.29E-02	5.30E-02	
4.0E+01	9.80E-03	1.18E-02	1.48E-02	1.96E-02	2.01E-02	2.09E-02	2.15E-02	2.17E-02	2.20E-02	2.21E-02	2.23E-02	2.26E-02	2.26E-02	2.27E-02	2.27E-02	2.27E-02	2.27E-02	2.28E-02	2.28E-02	2.30E-02
6.0E+01	4.20E-03	5.16E-03	5.60E-03	6.16E-03	6.38E-03	6.50E-03	6.66E-03	6.67E-03	6.68E-03	6.73E-03	6.76E-03	6.80E-03	6.80E-03	6.80E-03	6.80E-03	6.81E-03	6.81E-03	6.82E-03	6.82E-03	6.80E-03
1.0E+02	8.40E-04	9.96E-04	1.02E-03	1.05E-03	1.08E-03	1.09E-03	1.09E-03	1.09E-03	1.09E-03	1.10E-03	1.10E-03	1.11E-03	1.11E-03	1.11E-03	1.11E-03	1.11E-03	1.11E-03	1.11E-03	1.11E-03	1.10E-03
E[keV]:	4.52E+01	7.43E+00	7.01E+00	6.46E+00	1.66E+00	1.48E+00	1.36E+00	1.06E+00	1.03E+00	3.37E-01	2.42E-01	2.42E-01	1.33E-01	1.29E-01	0.00E+00	3.80E-02	2.20E-02	2.20E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																				
0.0E+00	4.89E+00	7.40E+00	8.57E+00	9.28E+00	9.75E+00	1.06E+01	1.11E+01	1.13E+01	1.15E+01	1.18E+01	1.19E+01	1.21E+01	1.22E+01	1.22E+01	1.23E+01	1.23E+01	1.23E+01			
5.0E-02	4.69E+00	7.20E+00	8.56E+00	9.28E+00	9.75E+00	1.06E+01	1.11E+01	1.13E+01	1.15E+01	1.18E+01	1.19E+01	1.21E+01	1.22E+01	1.22E+01	1.23E+01	1.23E+01	1.22E+01			
1.0E-01	4.19E+00	6.70E+00	7.85E+00	8.56E+00	9.03E+00	9.91E+00	1.04E+01	1.06E+01	1.08E+01	1.10E+01	1.12E+01	1.14E+01	1.15E+01	1.15E+01	1.16E+01	1.16E+01	1.16E+01			
1.5E-01	3.49E+00	6.00E+00	7.13E+00	7.84E+00	8.31E+00	9.19E+00	9.63E+00	9.89E+00	1.01E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.08E+01	1.09E+01	1.09E+01	1.09E+01			
2.0E-01	2.77E+00	5.27E+00	6.37E+00	7.08E+00	7.55E+00	8.43E+00	8.87E+00	9.13E+00	9.29E+00	9.55E+00	9.67E+00	9.88E+00	9.98E+00	1.00E+01	1.01E+01	1.01E+01	1.01E+01			
3.0E-01	1.59E+00	4.07E+00	5.08E+00	5.80E+00	6.27E+00	7.15E+00	7.58E+00	7.84E+00	8.01E+00	8.26E+00	8.38E+00	8.59E+00	8.69E+00	8.73E+00	8.83E+00	8.85E+00	8.86E+00			
4.0E-01	1.02E+00	3.44E+00	4.35E+00	5.06E+00	5.53E+00	6.41E+00	6.84E+00	7.09E+00	7.26E+00	7.52E+00	7.64E+00	7.84E+00	7.94E+00	7.99E+00	8.08E+00	8.11E+00	8.11E+00			
5.0E-01	8.30E-01	3.16E+00	3.95E+00	4.66E+00	5.13E+00	6.01E+00	6.43E+00	6.68E+00	6.85E+00	7.11E+00	7.23E+00	7.43E+00	7.53E+00	7.58E+00	7.67E+00	7.70E+00	7.70E+00			
6.0E-01	7.99E-01	3.00E+00	3.66E+00	4.37E+00	4.84E+00	5.72E+00	6.12E+00	6.38E+00	6.55E+00	6.80E+00	6.93E+00	7.13E+00	7.23E+00	7.27E+00	7.37E+00	7.39E+00	7.39E+00			
7.0E-01	7.97E-01	2.82E+00	3.36E+00	4.08E+00	4.55E+00	5.42E+00	5.81E+00	6.07E+00	6.24E+00	6.49E+00	6.61E+00	6.82E+00	6.91E+00	6.96E+00	7.05E+00	7.08E+00	7.08E+00			
8.0E-01	7.89E-01	2.61E+00	3.04E+00	3.76E+00	4.23E+00	5.10E+00	5.48E+00	5.73E+00	5.90E+00	6.16E+00	6.28E+00	6.48E+00	6.57E+00	6.62E+00	6.71E+00	6.74E+00	6.74E+00			
1.0E+00	7.40E-01	2.11E+00	2.37E+00	3.08E+00	3.55E+00	4.41E+00	4.76E+00	5.01E+00	5.18E+00	5.44E+00	5.56E+00	5.75E+00	5.85E+00	5.90E+00	5.99E+00	6.01E+00	6.02E+00			
1.2E+00	6.92E-01	1.63E+00	1.79E+00	2.50E+00	2.97E+00	3.91E+00	4.12E+00	4.37E+00	4.54E+00	4.80E+00	4.92E+00	5.11E+00	5.21E+00	5.25E+00	5.35E+00	5.37E+00	5.37E+00			
1.4E+00	6.50E-01	1.25E+00	2.06E+00	2.53E+00	3.35E+00	3.62E+00	3.87E+00	4.04E+00	4.30E+00	4.42E+00	4.61E+00	4.71E+00	4.75E+00	4.84E+00	4.87E+00	4.86E+00				
1.6E+00	6.15E-01	9.78E-01	1.06E+00	1.75E+00	2.21E+00	3.00E+00	3.23E+00	3.49E+00	3.66E+00	3.91E+00	4.04E+00	4.22E+00	4.31E+00	4.36E+00	4.45E+00	4.48E+00	4.48E+00			
1.8E+00	5.81E-01	8.00E-01	8.75E-01	1.56E+00	2.01E+00	2.76E+00	2.96E+00	3.21E+00	3.38E+00	3.63E+00	3.76E+00	3.93E+00	4.03E+00	4.07E+00	4.16E+00	4.19E+00	4.19E+00			
2.0E+00	5.51E-01	6.89E-01	7.65E-01	1.43E+00	1.87E+00	2.57E+00	2.74E+00	2.99E+00	3.16E+00	3.41E+00	3.54E+00	3.70E+00	3.80E+00	3.85E+00	3.94E+00	3.96E+00	3.96E+00			
2.4E+00	4.80E-01	5.68E-01	6.37E-01	1.26E+00	1.66E+00	2.25E+00	2.37E+00	2.62E+00	2.79E+00	3.04E+00	3.16E+00	3.32E+00	3.41E+00	3.46E+00	3.55E+00	3.57E+00	3.57E+00			
3.0E+00	3.77E-01	4.60E-01	5.03E-01	1.01E+00	1.35E+00	1.77E+00	1.83E+00	2.09E+00	2.26E+00	2.50E+00	2.62E+00	2.75E+00	2.84E+00	2.89E+00	2.97E+00	3.00E+00	3.00E+00			
4.0E+00	2.36E-01	2.88E-01	3.00E-01	6.10E-01	8.19E-01	1.00E+00	1.04E+00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10-2
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61Pm
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Q

Z=62

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	1.27E-02	4.52E-02	2.23E-02	2.39E-02	1.01E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.17E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	5.75E-01	3.91E-01	4.20E-01	2.09E+00	1.23E+01
5.0E-02	1.27E-02	4.52E-02	2.23E-02	2.39E-02	1.01E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.17E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	5.73E-01	3.91E-01	4.20E-01	2.00E+00	1.21E+01
1.0E-01	1.27E-02	4.52E-02	2.23E-02	2.39E-02	1.01E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.17E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	5.66E-01	3.91E-01	4.20E-01	1.75E+00	1.16E+01
1.5E-01	1.27E-02	4.52E-02	2.23E-02	2.39E-02	1.01E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.16E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	5.55E-01	3.91E-01	4.20E-01	1.41E+00	1.09E+01
2.0E-01	1.27E-02	4.52E-02	2.23E-02	2.39E-02	1.01E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.15E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	5.40E-01	3.90E-01	4.19E-01	1.05E+00	1.01E+01
3.0E-01	1.27E-02	4.51E-02	2.23E-02	2.39E-02	1.01E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.13E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	5.00E-01	3.87E-01	4.16E-01	4.72E-01	8.84E+00
4.0E-01	1.27E-02	4.51E-02	2.23E-02	2.39E-02	1.01E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.09E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	4.49E-01	3.81E-01	4.07E-01	1.78E-01	8.09E+00
5.0E-01	1.27E-02	4.51E-02	2.23E-02	2.39E-02	1.00E-01	5.99E-02	6.26E-02	4.12E-02	4.17E-02	2.04E-01	1.39E-01	1.45E-01	1.15E-01	1.16E-01	1.29E-01	3.91E-01	3.69E-01	3.91E-01	8.09E-02	7.68E+00
6.0E-01	1.27E-02	4.50E-02	2.23E-02	2.39E-02	9.96E-02	5.99E-02	6.26E-02	4.12E-02	4.17E-02	1.99E-01	1.39E-01	1.44E-01	1.15E-01	1.16E-01	1.29E-01	3.31E-01	3.52E-01	3.68E-01	6.26E-02	7.39E+00
7.0E-01	1.27E-02	4.50E-02	2.23E-02	2.39E-02	9.90E-02	5.99E-02	6.26E-02	4.12E-02	4.17E-02	1.93E-01	1.38E-01	1.44E-01	1.15E-01	1.16E-01	1.29E-01	2.73E-01	3.29E-01	3.38E-01	6.18E-02	7.09E+00
8.0E-01	1.27E-02	4.49E-02	2.23E-02	2.39E-02	9.83E-02	5.99E-02	6.26E-02	4.12E-02	4.17E-02	1.86E-01	1.38E-01	1.44E-01	1.15E-01	1.16E-01	1.28E-01	2.19E-01	3.01E-01	3.04E-01	5.85E-02	6.76E+00
1.0E+00	1.27E-02	4.48E-02	2.23E-02	2.39E-02	9.65E-02	5.99E-02	6.26E-02	4.12E-02	4.17E-02	1.70E-01	1.37E-01	1.42E-01	1.15E-01	1.16E-01	1.27E-01	1.34E-01	2.36E-01	2.28E-01	4.03E-02	6.06E+00
1.2E+00	1.27E-02	4.46E-02	2.23E-02	2.39E-02	9.44E-02	5.99E-02	6.25E-02	4.12E-02	4.17E-02	1.53E-01	1.34E-01	1.39E-01	1.14E-01	1.16E-01	1.25E-01	7.97E-02	1.70E-01	1.56E-01	2.18E-02	5.43E+00
1.4E+00	1.27E-02	4.44E-02	2.23E-02	2.39E-02	9.20E-02	5.98E-02	6.25E-02	4.12E-02	4.17E-02	1.35E-01	1.31E-01	1.36E-01	1.14E-01	1.15E-01	1.22E-01	5.14E-02	1.14E-01	9.93E-02	1.04E-02	4.92E+00
1.6E+00	1.27E-02	4.42E-02	2.23E-02	2.39E-02	8.94E-02	5.97E-02	6.23E-02	4.12E-02	4.17E-02	1.18E-01	1.27E-01	1.30E-01	1.12E-01	1.14E-01	1.18E-01	4.00E-02	7.26E-02	5.99E-02	5.12E-03	4.54E+00
1.8E+00	1.27E-02	4.40E-02	2.23E-02	2.39E-02	8.64E-02	5.96E-02	6.22E-02	4.12E-02	4.17E-02	1.01E-01	1.21E-01	1.24E-01	1.11E-01	1.12E-01	1.13E-01	3.70E-02	4.48E-02	3.57E-02	3.18E-03	4.25E+00
2.0E+00	1.26E-02	4.37E-02	2.23E-02	2.39E-02	8.33E-02	5.94E-02	6.20E-02	4.12E-02	4.17E-02	8.48E-02	1.15E-01	1.16E-01	1.08E-01	1.09E-01	1.07E-01	3.68E-02	2.81E-02	2.25E-02	2.71E-03	4.02E+00
2.4E+00	1.26E-02	4.30E-02	2.23E-02	2.39E-02	7.64E-02	5.89E-02	6.13E-02	4.12E-02	4.17E-02	5.84E-02	9.90E-02	9.86E-02	1.01E-01	1.02E-01	9.46E-02	3.43E-02	1.53E-02	1.40E-02	2.63E-03	3.63E+00
3.0E+00	1.26E-02	4.19E-02	2.23E-02	2.38E-02	6.53E-02	5.75E-02	5.97E-02	4.11E-02	4.16E-02	3.33E-02	7.25E-02	6.96E-02	8.52E-02	8.53E-02	7.56E-02	2.24E-02	1.36E-02	1.33E-02	1.88E-03	3.07E+00
4.0E+00	1.25E-02	3.95E-02	2.22E-02	2.38E-02	4.70E-02	5.37E-02	5.51E-02	4.07E-02	4.12E-02	2.02E-02	3.48E-02	3.13E-02	5.41E-02	5.33E-02	4.89E-02	6.55E-03	9.87E-03	8.46E-03	6.45E-04	2.21E+00
5.0E+00	1.25E-02	3.67E-02	2.21E-02	2.36E-02	3.13E-02	4.77E-02	4.81E-02	3.97E-02	4.02E-02	1.96E-02	1.50E-02	1.34E-02	2.87E-02	2.78E-02	3.02E-02	3.25E-03	4.31E-03	3.30E-03	2.26E-04	1.60E+00
6.0E+00	1.24E-02	3.36E-02	2.20E-02	2.34E-02	2.00E-02	4.02E-02	3.97E-02	3.80E-02	3.84E-02	1.73E-02	8.71E-03	8.64E-03	1.35E-02	1.29E-02	1.84E-02	3.13E-03	1.67E-03	1.32E-03	2.13E-04	1.23E+00
7.0E+00	1.22E-02	3.02E-02	2.17E-02	2.31E-02	1.30E-02	3.22E-02	3.09E-02	3.55E-02	3.58E-02	1.25E-02	7.85E-03	8.25E-03	6.42E-03	6.10E-03	1.11E-02	2.57E-03	1.03E-03	9.65E-04	1.79E-04	1.00E+00
8.0E+00	1.21E-02	2.68E-02	2.14E-02	2.26E-02	9.35E-03	2.45E-02	2.29E-02	3.23E-02	3.24E-02	7.70E-03	7.73E-03	7.92E-03	3.77E-03	3.65E-03	6.66E-03	1.69E-03	9.85E-04	9.50E-04	1.19E-04	8.43E-01
1.0E+01	1.20E-02	2.00E-02	2.00E-02	2.10E-02	7.50E-03	1.30E-02	1.10E-02	2.50E-02	2.50E-02	2.60E-03	5.60E-03	5.20E-03	3.00E-03	3.00E-03	2.50E-03	5.30E-04	8.10E-04	7.00E-04	3.70E-05	6.10E-01
1.5E+01	1.10E-02	8.10E-03	1.60E-02	1.60E-02	5.80E-03	2.50E-03	2.50E-03	9.80E-03	9.50E-03	1.60E-03	8.80E-04	7.30E-04	2.00E-03	1.90E-03	2.40E-04	2.50E-04	1.30E-04	9.70E-05	1.70E-05	2.90E-01
2.0E+01	9.70E-03	2.80E-03	1.10E-02	1.10E-02	2.30E-03	2.10E-03	2.30E-03	3.30E-03	3.10E-03	7.20E-04	4.20E-04	4.60E-04	7.40E-04	7.00E-04	3.20E-05	1.20E-04	5.30E-05	5.40E-05	8.00E-06	1.50E-01
3.0E+01	7.10E-03	1.10E-03	4.50E-03	3.80E-03	2.70E-04	1.20E-03	1.10E-03	3.80E-04	3.40E-04	6.90E-05	2.80E-04	2.60E-04	8.80E-05	7.80E-05	1.20E-06	1.10E-05	3.60E-05	3.10E-05	7.20E-07	5.50E-02
4.0E+01	4.90E-03	1.00E-03	1.60E-03	1.20E-03	2.30E-04	4.60E-04	3.80E-04	5.60E-05	4.80E-05	6.20E-05	1.10E-04	8.70E-05	1.30E-05	1.10E-05	8.20E-08	7.80E-06	1.40E-05	1.00E-05	5.20E-07	2.40E-02
6.0E+01	2.10E-03	5.00E-04	2.50E-04	1.60E-04	1.20E-04	6.70E-05	4.40E-05	2.60E-06	2.00E-06	2.70E-05	1.50E-05	1.00E-05	6.00E-07	4.50E-07	1.40E-09	4.20E-06	2.00E-06	1.20E-06	2.80E-07	7.10E-03
1.0E+02	4.40E-04	8.40E-05	1.50E-05	6.50E-06	1.90E-05	3.80E-06	1.70E-06	4.10E-08	2.50E-08	4.40E-06	8.60E-07	3.80E-07	9.20E-09	5.50E-09	7.80E-12	6.70E-07	1.10E-07	4.60E-08	4.50E-08	1.20E-03

E[keV]: 4.68E+01 7.74E+00 7.31E+00 6.72E+00 1.73E+00 1.55E+00 1.42E+00 1.11E+00 1.08E+00 3.51E-01 2.51E-01 2.51E-01 1.37E-01 1.32E-01 0.00E+00 3.30E-02 2.60E-02 2.60E-02 0.00E+00

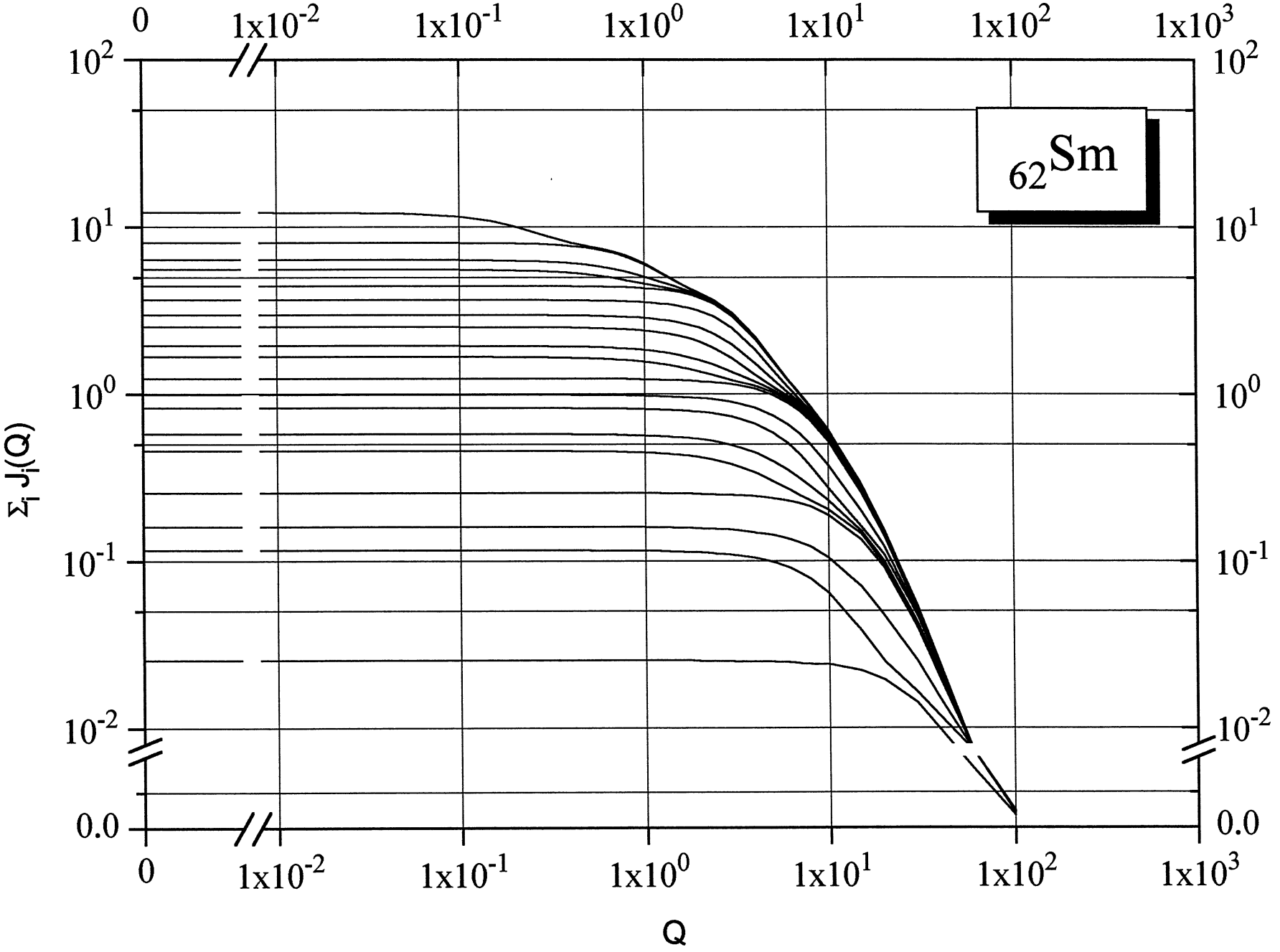
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(2)	5s+(2)	5p-(4)	5p+(2)	Total
0.0E+00	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.58E-01	5.78E-01	8.28E-01	9.93E-01	1.24E+00	1.68E+00	1.96E+00	2.54E+00	3.00E+00	3.69E+00	4.47E+00	5.62E+00	6.40E+00	8.08E+00	1.23E+01	1.23E+01
5.0E-02	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.58E-01	5.78E-01	8.28E-01	9.93E-01	1.24E+00	1.68E+00	1.96E+00	2.54E+00	3.00E+00	3.69E+00	4.47E+00	5.61E+00	6.39E+00	8.07E+00	1.21E+01	1.21E+01
1.0E-01	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.58E-01	5.78E-01	8.28E-01	9.93E-01	1.24E+00	1.68E+00	1.96E+00	2.54E+00	3.00E+00	3.69E+00	4.47E+00	5.60E+00	6.38E+00	8.06E+00	1.16E+01	1.16E+01
1.5E-01	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.58E-01	5.78E-01	8.28E-01	9.93E-01	1.24E+00	1.68E+00	1.95E+00	2.53E+00	2.99E+00	3.69E+00	4.46E+00	5.57E+00	6.36E+00	8.04E+00	1.09E+01	1.09E+01
2.0E-01	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.58E-01	5.78E-01	8.28E-01	9.93E-01	1.24E+00	1.67E+00	1.95E+00	2.53E+00	2.99E+00	3.69E+00	4.46E+00	5.54E+00	6.32E+00	8.00E+00	1.01E+01	1.01E+01
3.0E-01	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.58E-01	5.78E-01	8.28E-01	9.93E-01	1.24E+00	1.67E+00	1.95E+00	2.53E+00	2.99E+00	3.68E+00	4.46E+00	5.46E+00	6.23E+00	7.90E+00	8.84E+00	8.84E+00
4.0E-01	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.58E-01	5.78E-01	8.28E-01	9.93E-01	1.24E+00	1.66E+00	1.94E+00	2.52E+00	2.98E+00	3.67E+00	4.45E+00	5.35E+00	6.11E+00	7.74E+00	8.09E+00	8.09E+00
5.0E-01	2.54E-02	1.16E-01	1.60E-01	2.56E-01	4.56E-01	5.76E-01	8.26E-01	9.91E-01	1.24E+00	1.65E+00	1.93E+00	2.51E+00	2.97E+00	3.66E+00	4.44E+00	5.22E+00	5.96E+00	7.52E+00	7.68E+00	7.68E+00
6.0E-01	2.54E-02	1.15E-01	1.60E-01	2.56E-01	4.55E-01	5.75E-01	8.25E-01	9.90E-01	1.24E+00	1.64E+00	1.92E+00	2.49E+00	2.95E+00	3.65E+00	4.42E+00	5.08E+00	5.79E+00	7.26E+00	7.39E+00	7.39E+00
7.0E-01	2.54E-02	1.15E-01	1.60E-01	2.56E-01	4.54E-01	5.73E-01	8.24E-01	9.89E-01	1.24E+00	1.62E+00	1.90E+00	2.48E+00	2.94E+00	3.63E+00	4.41E+00	4.95E+00	5.61E+00	6.96E+00	7.09E+00	7.09E+00
8.0E-01	2.54E-02	1.15E-01	1.60E-01	2.55E-01	4.52E-01	5.72E-01	8.22E-01	9.87E-01	1.24E+00	1.61E+00	1.89E+00	2.46E+00	2.92E+00	3.62E+00	4.39E+00	4.82E+00	5.43E+00	6.64E+00	6.76E+00	6.76E+00
1.0E+00	2.54E-02	1.15E-01	1.60E-01	2.55E-01	4.48E-01	5.68E-01	8.18E-01	9.83E-01	1.23E+00	1.57E+00	1.85E+00	2.42E+00	2.88E+00	3.57E+00	4.33E+00	4.60E+00	5.07E+00	5.99E+00	6.07E+00	6.06E+00
1.2E+00	2.54E-02	1.15E-01	1.59E-01	2.55E-01	4.44E-01	5.63E-01	8.13E-01	9.78E-01	1.23E+00	1.53E+00	1.80E+00	2.36E+00	2.81E+00	3.51E+00	4.26E+00	4.42E+00	4.76E+00	5.38E+00	5.43E+00	5.43E+00
1.4E+00	2.54E-02	1.14E-01	1.59E-01	2.54E-01	4.38E-01	5.58E-01	8.08E-01	9.73E-01	1.22E+00	1.49E+00	1.76E+00	2.30E+00	2.76E+00	3.45E+00	4.18E+00	4.28E+00	4.51E+00	4.91E+00	4.93E+00	4.92E+00
1.6E+00	2.54E-02	1.14E-01	1.58E-01	2.54E-01	4.33E-01	5.52E-01	8.01E-01	9.66E-01	1.22E+00	1.45E+00	1.71E+00	2.23E+00	2.67E+00	3.36E+00	4.07E+00	4.15E+00	4.29E+00	4.53E+00	4.54E+00	4.54E+00
1.8E+00	2.54E-02	1.13E-01	1.58E-01	2.54E-01	4.26E-01	5.46E-01	7.94E-01	9.59E-01	1.21E+00	1.41E+00	1.65E+00	2.15E+00	2.59E+00	3.27E+00	3.94E+00	4.02E+00	4.11E+00	4.25E+00	4.26E+00	4.25E+00
2.0E+00	2.52E-02	1.13E-01	1.57E-01	2.53E-01	4.19E-01	5.38E-01	7.86E-01	9.51E-01	1.20E+00	1.37E+00	1.60E+00	2.06E+00	2.50E+00	3.15E+00	3.79E+00	3.87E+00	3.92E+00	4.01E+00	4.02E+00	4.02E+00
2.4E+00	2.52E-02	1.11E-01	1.56E-01	2.51E-01	4.04E-01	5.22E-01	7.67E-01	9.32E-01	1.18E+00	1.30E+00	1.50E+00	1.89E+00	2.30E+00	2.91E+00	3.48E+00	3.54E+00	3.57E+00	3.63E+00	3.64E+00	3.63E+00
3.0E+00	2.52E-02	1.09E-01	1.54E-01	2.49E-01	3.79E-01	4.94E-01	7.33E-01	8.98E-01	1.15E+00	1.21E+00	1.36E+00	1.64E+00	1.98E+00	2.49E+00	2.94E+00	2.99E+00	3.02E+00	3.07E+00	3.07E+00	3.07E+00
4.0E+00	2.50E-02	1.04E-01	1.48E-01	2.44E-01	3.38E-01	4.45E-01	6.65E-01	8.28E-01	1.08E+00	1.12E+00	1.19E+00	1.31E+00	1.53E+00	1.85E+00	2.14E+00	2.15E+00	2.17E+00	2.21E+00	2.21E+00	2.21E+00
5.0E+00	2.50E-02	9.84E-02	1.43E-01	2.37E-01	3.00E-01	3.95E-01	5.87E-01	7.46E-01	9.87E-01	1.03E+00	1.06E+00	1.11E+00	1.23E+00	1.39E+00	1.57E+00	1.58E+00	1.59E+00	1.60E+00	1.60E+00	1.60E+00
6.0E+00	2.48E-02	9.20E-02	1.36E-01	2.30E-01	2.70E-01	3.50E-01	5.09E-01	6.61E-01	8.91E-01	9.26E-01	9.43E-01	9.78E-01	1.03E+00	1.11E+00	1.22E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00
7.0E+00	2.44E-02	8.48E-02	1.28E-01	2.21E-01	2.47E-01	3.11E-01	4.35E-01	5.77E-01	7.91E-01	8.16E-01	8.32E-01	8.65E-01	8.91E-01	9.27E-01	9.94E-01	9.99E-01	1.00E+00	1.01E+00	1.01E+00	1.00E+00
8.0E+00	2.42E-02	7.78E-02	1.21E-01	2.11E-01	2.30E-01	2.79E-01	3.70E-01	5.00E-01	6.94E-01	7.09E-01	7.25E-01	7.56E-01	7.72E-01	7.93E-01	8.33E-01	8.37E-01	8.39E-01	8.43E-01	8.43E-01	8.43E-01
1.0E+01	2.40E-02	6.40E-02	1.04E-01	1.88E-01	2.03E-01	2.29E-01	2.73E-01	3.73E-01	5.23E-01	5.28E-01	5.39E-01	5.60E-01	5.72E-01	5.90E-01	6.05E-01	6.06E-01	6.08E-01	6.11E-01	6.11E-01	6.10E-01
1.5E+01	2.20E-02	3.82E-02	7.02E-02	1.34E-01	1.46E-01	1.51E-01	1.61E-01	2.00E-01	2.57E-01	2.60E-01	2.62E-01	2.65E-01	2.73E-01	2.84E-01	2.86E-01	2.86E-01	2.86E-01	2.87E-01	2.90E-01	2.90E-01
2.0E+01	1.94E-02	2.50E-02	4.70E-02	9.10E-02	9.56E-02	9.98E-02	1.09E-01	1.22E-01	1.41E-01	1.42E-01	1.43E-01	1.45E-01	1.48E-01	1.52E-01	1.52E-01	1.53E-01	1.53E-01	1.53E-01	1.53E-01	1.50E-01
3.0E+01	1.42E-02	1.64E-02	2.54E-02	4.06E-02	4.11E-02	4.35E-02	4.79E-02	4.95E-02	5.15E-02	5.16E-02	5.22E-02	5.32E-02	5.36E-02	5.41E-02	5.41E-02	5.41E-02	5.42E-02	5.43E-02	5.43E-02	5.50E-02
4.0E+01	9.80E-03	1.18E-02	1.50E-02	1.98E-02	2.03E-02	2.12E-02	2.27E-02	2.29E-02	2.32E-02	2.33E-02	2.36E-02	2.39E-02	2.40E-02	2.40E-02	2.40E-02	2.40E-02	2.41E-02	2.41E-02	2.41E-02	2.40E-02
6.0E+01	4.20E-03	5.20E-03	5.70E-03	6.34E-03	6.58E-03	6.71E-03	6.89E-03	6.90E-03	6.91E-03	6.97E-03	7.00E-03	7.04E-03	7.04E-03	7.04E-03	7.04E-03	7.05E-03	7.05E-03	7.06E-03	7.06E-03	7.10E-03
1.0E+02	8.80E-04	1.05E-03	1.08E-03	1.10E-03	1.14E-03	1.15E-03	1.16E-03	1.16E-03	1.16E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.20E-03

E[keV]: 4.68E+01 7.74E+00 7.31E+00 6.72E+00 1.73E+00 1.55E+00 1.42E+00 1.11E+00 1.08E+00 3.51E-01 2.51E-01 2.51E-01 1.37E-01 1.32E-01 0.00E+00 3.30E-02 2.60E-02 2.60E-02 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																				
0.0E+00	4.95E+00	7.42E+00	8.57E+00	9.26E+00	9.72E+00	1.06E+01	1.10E+01	1.13E+01	1.14E+01	1.17E+01	1.18E+01	1.20E+01	1.21E+01	1.21E+01	1.22E+01	1.23E+01	1.23E+01			
5.0E-02	4.77E+00	7.24E+00	8.38E+00	9.08E+00	9.54E+00	1.04E+01	1.08E+01	1.11E+01	1.12E+01	1.15E+01	1.16E+01	1.18E+01	1.19E+01	1.20E+01	1.20E+01	1.21E+01	1.21E+01			
1.0E-01	4.27E+00	6.74E+00	7.87E+00	8.56E+00	9.02E+00	9.88E+00	1.03E+01	1.06E+01	1.07E+01	1.10E+01	1.11E+01	1.13E+01	1.14E+01	1.14E+01	1.15E+01	1.16E+01	1.16E+01			
1.5E-01	3.59E+00	6.06E+00	7.17E+00	7.86E+00	8.32E+00	9.18E+00	9.61E+00	9.86E+00	1.00E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.09E+01	1.09E+01			
2.0E-01	2.87E+00	5.33E+00	6.41E+00	7.11E+00	7.57E+00	8.42E+00	8.85E+00	9.10E+00	9.27E+00	9.52E+00	9.64E+00	9.84E+00	9.94E+00	9.98E+00	1.01E+01	1.01E+01	1.01E+01			
3.0E-01	1.72E+00	4.16E+00	5.16E+00	5.85E+00	6.31E+00	7.17E+00	7.60E+00	7.85E+00	8.01E+00	8.26E+00	8.38E+00	8.58E+00	8.68E+00	8.72E+00	8.81E+00	8.84E+00	8.84E+00			
4.0E-01	1.13E+00	3.52E+00	4.42E+00	5.11E+00	5.57E+00	6.43E+00	6.85E+00	7.10E+00	7.26E+00	7.52E+00	7.64E+00	7.84E+00	7.93E+00	7.98E+00	8.07E+00	8.09E+00	8.09E+00			
5.0E-01	9.36E-01	3.24E+00	4.02E+00	4.72E+00	5.18E+00	6.03E+00	6.44E+00	6.69E+00	6.86E+00	7.11E+00	7.23E+00	7.43E+00	7.52E+00	7.57E+00	7.66E+00	7.68E+00	7.68E+00			
6.0E-01	8.99E-01	3.08E+00	3.74E+00	4.43E+00	4.89E+00	5.75E+00	6.15E+00	6.40E+00	6.56E+00	6.81E+00	6.93E+00	7.13E+00	7.23E+00	7.27E+00	7.36E+00	7.39E+00	7.39E+00			
7.0E-01	8.98E-01	2.91E+00	3.45E+00	4.15E+00	4.61E+00	5.46E+00	5.85E+00	6.10E+00	6.26E+00	6.51E+00	6.63E+00	6.83E+00	6.93E+00	6.97E+00	7.06E+00	7.09E+00	7.09E+00			
8.0E-01	8.85E-01	2.70E+00	3.14E+00	3.84E+00	4.30E+00	5.15E+00	5.52E+00	5.77E+00	5.94E+00	6.19E+00	6.31E+00	6.50E+00	6.60E+00	6.64E+00	6.73E+00	6.76E+00	6.76E+00			
1.0E+00	8.43E-01	2.23E+00	2.49E+00	3.19E+00	3.65E+00	4.49E+00	4.83E+00	5.08E+00	5.25E+00	5.50E+00	5.62E+00	5.81E+00	5.91E+00	5.95E+00	6.04E+00	6.07E+00	6.06E+00			
1.2E+00	7.94E-01	1.76E+00	1.92E+00	2.61E+00	3.07E+00	3.89E+00	4.20E+00	4.45E+00	4.61E+00	4.86E+00	4.98E+00	5.17E+00	5.27E+00	5.31E+00	5.40E+00	5.43E+00	5.43E+00			
1.4E+00	7.53E-01	1.38E+00	1.48E+00	2.17E+00	2.63E+00	3.43E+00	3.76E+00	4.00E+00	4.12E+00	4.37E+00	4.49E+00	4.67E+00	4.77E+00	4.81E+00	4.90E+00	4.93E+00	4.92E+00			
1.6E+00	7.18E-01	1.10E+00	1.16E+00	1.87E+00	2.32E+00	3.09E+00	3.33E+00	3.58E+00	3.74E+00	3.99E+00	4.11E+00	4.29E+00	4.38E+00	4.43E+00	4.52E+00	4.54E+00	4.54E+00			
1.8E+00	6.84E-01	9.17E-01	9.91E-01	1.66E+00	2.11E+00	2.84E+00	3.05E+00	3.30E+00	3.46E+00	3.71E+00	3.83E+00	4.00E+00	4.10E+00	4.14E+00	4.23E+00	4.26E+00	4.25E+00			
2.0E+00	6.47E-01	7.94E-01	8.67E-01	1.52E+00	1.95E+00	2.65E+00	2.82E+00	3.07E+00	3.23E+00	3.48E+00	3.60E+00	3.77E+00	3.86E+00	3.91E+00	3.99E+00	4.02E+00	4.02E+00			
2.4E+00	5.73E-01	6.59E-01	7.28E-01	1.34E+00	1.74E+00	2.34E+00	2.45E+00	2.70E+00	2.87E+00	3.11E+00	3.23E+00	3.38E+00	3.48E+00	3.52E+00	3.61E+00	3.64E+00	3.63E+00			
3.0E+00	4.57E-01	5.38E-01	5.83E-01	1.09E+00	1.44E+00	1.86E+00	1.93E+00	2.17E+00	2.34E+00	2.58E+00	2.69E+00	2.82E+00	2.92E+00	2.96E+00	3.05E+00	3.07E+00	3.07E+00			
4.0E+00	2.95E-01	3.48E-01	3.61E-01	6.81E-01	8.98E-01	1.09E+00	1.13E+00	1.38E+00	1.54E+00	1.76E+00	1.87E+00	1.96E+00	2.06E+00	2.10E+00	2.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Z=63

Compton profiles for the single orbitals and binding energies

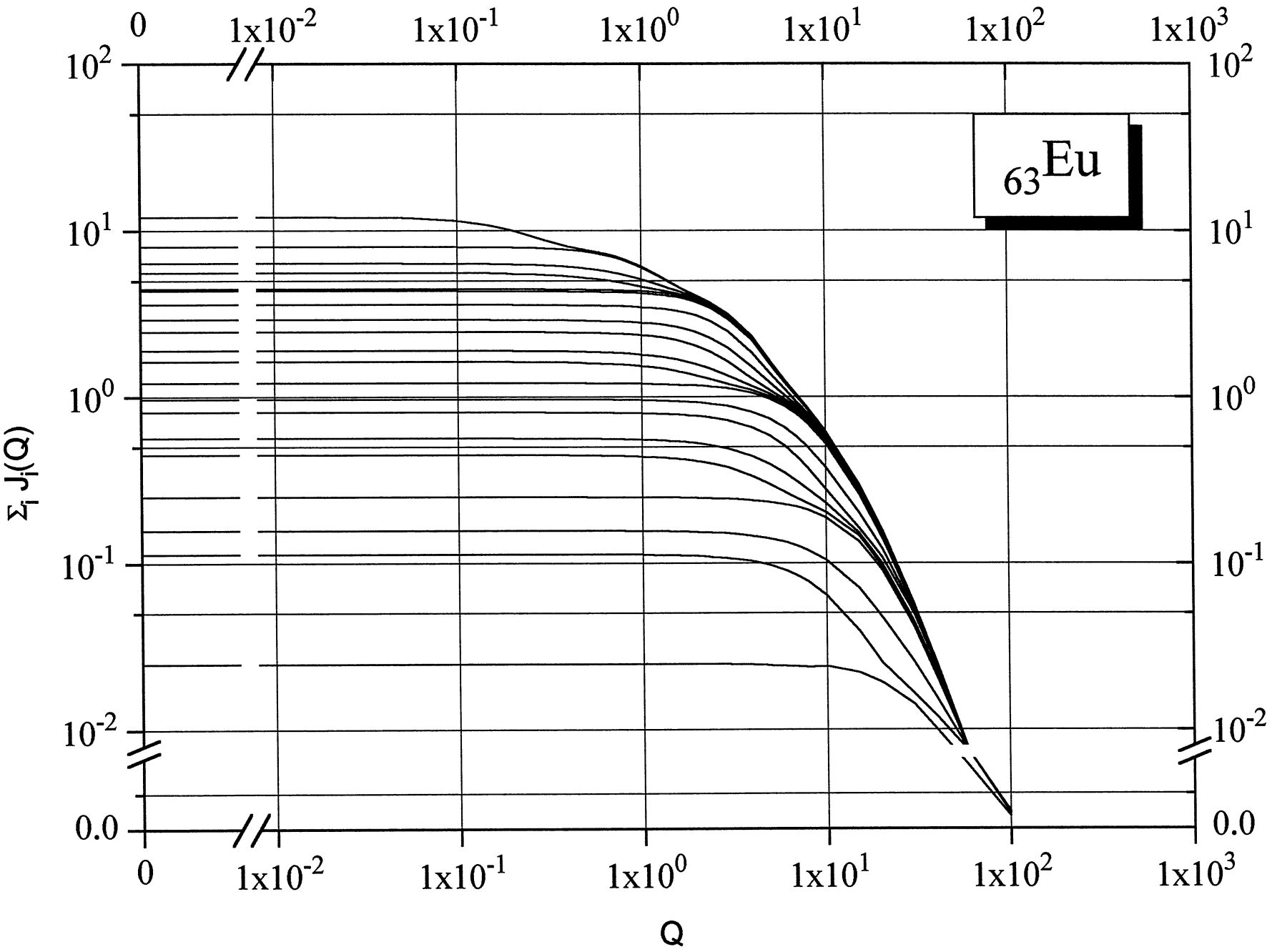
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(1)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	1.24E-02	4.43E-02	2.19E-02	2.34E-02	9.92E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.12E-01	1.35E-01	1.42E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	5.64E-01	3.84E-01	4.13E-01	2.07E+00	1.22E+01
5.0E-02	1.24E-02	4.43E-02	2.19E-02	2.34E-02	9.92E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.12E-01	1.35E-01	1.42E-01	1.12E-01	1.14E-01	1.24E-01	1.31E-01	5.62E-01	3.84E-01	4.13E-01	1.98E+00	1.20E+01
1.0E-01	1.24E-02	4.43E-02	2.19E-02	2.34E-02	9.92E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.12E-01	1.35E-01	1.42E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	5.56E-01	3.84E-01	4.13E-01	1.74E+00	1.15E+01
1.5E-01	1.24E-02	4.43E-02	2.19E-02	2.34E-02	9.91E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.11E-01	1.35E-01	1.42E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	5.46E-01	3.83E-01	4.13E-01	1.41E+00	1.08E+01
2.0E-01	1.24E-02	4.43E-02	2.19E-02	2.34E-02	9.90E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.10E-01	1.35E-01	1.42E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	5.31E-01	3.83E-01	4.12E-01	1.06E+00	1.01E+01
3.0E-01	1.24E-02	4.42E-02	2.19E-02	2.34E-02	9.88E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.08E-01	1.35E-01	1.42E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	4.93E-01	3.81E-01	4.09E-01	4.82E-01	8.82E+00
4.0E-01	1.24E-02	4.42E-02	2.19E-02	2.34E-02	9.85E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.05E-01	1.35E-01	1.42E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	4.44E-01	3.75E-01	4.00E-01	1.84E-01	8.07E+00
5.0E-01	1.24E-02	4.42E-02	2.19E-02	2.34E-02	9.80E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	2.00E-01	1.35E-01	1.41E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	3.89E-01	3.64E-01	3.86E-01	8.17E-02	7.67E+00
6.0E-01	1.24E-02	4.41E-02	2.19E-02	2.34E-02	9.75E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	1.95E-01	1.35E-01	1.41E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	3.31E-01	3.48E-01	3.64E-01	6.10E-02	7.38E+00
7.0E-01	1.24E-02	4.41E-02	2.19E-02	2.34E-02	9.69E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	1.89E-01	1.35E-01	1.41E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	2.75E-01	3.26E-01	3.36E-01	5.99E-02	7.09E+00
8.0E-01	1.24E-02	4.41E-02	2.19E-02	2.34E-02	9.62E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	1.83E-01	1.35E-01	1.40E-01	1.12E-01	1.14E-01	1.24E-01	1.30E-01	2.23E-01	2.99E-01	3.03E-01	5.73E-02	6.78E+00
1.0E+00	1.24E-02	4.39E-02	2.19E-02	2.34E-02	9.46E-02	5.86E-02	6.13E-02	4.03E-02	4.08E-02	1.68E-01	1.33E-01	1.39E-01	1.12E-01	1.13E-01	1.23E-01	1.28E-01	1.38E-01	2.37E-01	2.30E-01	4.06E-02	6.11E+00
1.2E+00	1.24E-02	4.38E-02	2.19E-02	2.34E-02	9.27E-02	5.85E-02	6.12E-02	4.03E-02	4.08E-02	1.52E-01	1.31E-01	1.37E-01	1.12E-01	1.13E-01	1.21E-01	1.25E-01	8.29E-02	1.74E-01	1.60E-01	2.26E-02	5.49E+00
1.4E+00	1.24E-02	4.36E-02	2.19E-02	2.34E-02	9.04E-02	5.85E-02	6.12E-02	4.03E-02	4.08E-02	1.35E-01	1.29E-01	1.33E-01	1.11E-01	1.12E-01	1.18E-01	1.22E-01	5.29E-02	1.19E-01	1.04E-01	1.10E-02	4.99E+00
1.6E+00	1.24E-02	4.34E-02	2.19E-02	2.34E-02	8.79E-02	5.84E-02	6.11E-02	4.03E-02	4.08E-02	1.18E-01	1.25E-01	1.28E-01	1.10E-01	1.11E-01	1.15E-01	1.17E-01	4.00E-02	7.67E-02	6.35E-02	5.41E-03	4.60E+00
1.8E+00	1.24E-02	4.31E-02	2.18E-02	2.34E-02	8.51E-02	5.83E-02	6.09E-02	4.03E-02	4.08E-02	1.01E-01	1.20E-01	1.23E-01	1.08E-01	1.10E-01	1.10E-01	1.12E-01	3.62E-02	4.78E-02	3.81E-02	3.22E-03	4.31E+00
2.0E+00	1.24E-02	4.29E-02	2.18E-02	2.34E-02	8.21E-02	5.81E-02	6.07E-02	4.03E-02	4.08E-02	8.61E-02	1.14E-01	1.15E-01	1.06E-01	1.07E-01	1.05E-01	1.06E-01	3.58E-02	3.00E-02	2.38E-02	2.62E-03	4.08E+00
2.4E+00	1.24E-02	4.23E-02	2.18E-02	2.34E-02	7.56E-02	5.76E-02	6.01E-02	4.02E-02	4.08E-02	6.01E-02	9.89E-02	9.88E-02	9.96E-02	1.00E-01	9.39E-02	9.30E-02	3.40E-02	1.55E-02	1.39E-02	2.52E-03	3.69E+00
3.0E+00	1.24E-02	4.12E-02	2.18E-02	2.34E-02	6.51E-02	5.64E-02	5.87E-02	4.02E-02	4.07E-02	3.46E-02	7.38E-02	7.11E-02	8.52E-02	8.54E-02	7.62E-02	7.44E-02	2.32E-02	1.31E-02	1.29E-02	1.89E-03	3.14E+00
4.0E+00	1.23E-02	3.90E-02	2.18E-02	2.33E-02	4.74E-02	5.29E-02	5.44E-02	3.96E-02	4.03E-02	2.01E-02	3.68E-02	3.31E-02	5.57E-02	5.49E-02	6.05E-02	4.84E-02	7.12E-03	1.01E-02	8.75E-03	5.84E-04	2.28E+00
5.0E+00	1.22E-02	3.63E-02	2.17E-02	2.32E-02	3.21E-02	4.73E-02	4.79E-02	3.90E-02	3.94E-02	1.92E-02	1.61E-02	1.42E-02	3.05E-02	2.96E-02	3.19E-02	3.03E-02	3.24E-03	4.65E-03	3.58E-03	2.23E-04	1.66E+00
6.0E+00	1.21E-02	3.33E-02	2.15E-02	2.30E-02	2.08E-02	4.03E-02	3.99E-02	3.74E-02	3.78E-02	1.74E-02	8.93E-03	8.70E-03	1.48E-02	1.41E-02	1.98E-02	1.86E-02	3.08E-03	1.82E-03	1.41E-03	2.04E-04	1.27E+00
7.0E+00	1.20E-02	3.01E-02	2.13E-02	2.27E-02	1.35E-02	3.26E-02	3.15E-02	3.51E-02	3.54E-02	1.30E-02	7.72E-03	8.11E-03	7.08E-03	6.70E-03	1.21E-02	1.14E-02	2.63E-03	1.04E-03	9.52E-04	1.78E-04	1.03E+00
8.0E+00	1.19E-02	2.68E-02	2.10E-02	2.23E-02	9.59E-03	2.52E-02	2.36E-02	3.22E-02	3.24E-02	8.29E-03	7.64E-03	7.90E-03	4.00E-03	3.85E-03	7.42E-03	6.93E-03	1.80E-03	9.55E-04	9.30E-04	1.23E-04	8.59E-01
1.0E+01	1.20E-02	2.00E-02	2.00E-02	2.10E-02	7.40E-03	1.30E-02	1.20E-02	2.50E-02	2.50E-02	2.90E-03	5.90E-03	5.50E-03	2.90E-03	3.00E-03	2.80E-03	2.60E-03	5.90E-04	8.20E-04	7.20E-04	4.00E-05	6.20E-01
1.5E+01	1.10E-02	8.50E-03	1.60E-02	1.60E-02	6.00E-03	2.60E-03	2.60E-03	1.00E-02	1.00E-02	1.60E-03	9.80E-04	8.00E-04	2.10E-03	2.00E-03	2.90E-04	2.60E-04	2.50E-04	1.50E-04	1.10E-04	1.70E-05	3.00E-01
2.0E+01	9.60E-03	3.00E-03	1.10E-02	1.10E-02	2.40E-03	2.10E-03	2.30E-03	3.50E-03	3.30E-03	7.80E-04	4.10E-04	4.60E-04	8.10E-04	7.60E-04	3.90E-05	3.50E-05	1.30E-04	5.20E-05	5.30E-05	8.40E-06	1.60E-01
3.0E+01	7.10E-03	1.10E-03	4.60E-03	4.00E-03	2.80E-04	1.30E-03	1.20E-03	4.20E-04	3.80E-04	7.40E-05	2.90E-04	2.70E-04	9.90E-05	8.80E-05	1.50E-06	1.30E-06	1.20E-05	3.70E-05	3.20E-05	7.60E-07	5.70E-02
4.0E+01	5.00E-03	1.00E-03	1.70E-03	1.30E-03	4.20E-04	5.00E-04	4.00E-04	6.40E-05	5.50E-05	5.10E-05	1.10E-04	9.40E-05	1.50E-05	1.30E-05	1.10E-07	8.90E-08	7.80E-06	1.50E-05	1.10E-05	5.10E-07	2.50E-02
6.0E+01	2.20E-03	5.20E-04	2.70E-04	1.70E-04	1.20E-04	7.40E-05	4.90E-05	3.10E-06	2.40E-06	2.90E-05	1.70E-05	1.10E-05	7.00E-07	5.30E-07	1.80E-09	1.40E-09	4.40E-06	2.20E-06	1.30E-06	2.90E-07	7.50E-03
1.0E+02	4.60E-04	9.00E-05	1.70E-05	7.20E-06	2.10E-05	4.30E-06	1.90E-06	4.90E-08	2.90E-08	4.80E-06	9.80E-07	4.30E-07	1.10E-08	6.50E-09	9.90E-12	6.60E-12	7.30E-07	1.30E-07	5.10E-08	4.80E-08	1.20E-03
E[keV]:	4.85E+01	8.05E+00	7.62E+00	6.98E+00	1.80E+00	1.62E+00	1.49E+00	1.17E+00	1.14E+00	3.66E-01	2.61E-01	2.61E-01	1.41E-01	1.36E-01	0.00E+00	0.00E+00	3.70E-02	2.70E-02	2.70E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(1)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.49E-01	5.66E-01	8.12E-01	9.73E-01	1.22E+00	1.64E+00	1.91E+00	2.48E+00	2.93E+00	3.61E+00	4.36E+00	4.49E+00	5.61E+00	6.38E+00	8.03E+00	1.22E+01	1.22E+01
5.0E-02	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.49E-01	5.66E-01	8.12E-01	9.73E-01	1.22E+00	1.64E+00	1.91E+00	2.48E+00	2.93E+00	3.61E+00	4.36E+00	4.49E+00	5.61E+00	6.38E+00	8.03E+00	1.20E+01	1.20E+01
1.0E-01	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.49E-01	5.66E-01	8.12E-01	9.73E-01	1.22E+00	1.64E+00	1.91E+00	2.48E+00	2.93E+00	3.61E+00	4.36E+00	4.49E+00	5.60E+00	6.37E+00	8.02E+00	1.15E+01	1.15E+01
1.5E-01	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.49E-01	5.66E-01	8.11E-01	9.73E-01	1.22E+00	1.64E+00	1.91E+00	2.48E+00	2.93E+00	3.61E+00	4.35E+00	4.48E+00	5.58E+00	6.34E+00	7.99E+00	1.08E+01	1.08E+01
2.0E-01	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.49E-01	5.66E-01	8.11E-01	9.72E-01	1.22E+00	1.64E+00	1.91E+00	2.48E+00	2.92E+00	3.61E+00	4.35E+00	4.48E+00	5.54E+00	6.31E+00	7.96E+00	1.01E+01	1.01E+01
3.0E-01	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.48E-01	5.65E-01	8.11E-01	9.72E-01	1.22E+00	1.63E+00	1.90E+00	2.47E+00	2.92E+00	3.60E+00	4.35E+00	4.48E+00	5.46E+00	6.22E+00	7.86E+00	8.82E+00	8.82E+00
4.0E-01	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.48E-01	5.65E-01	8.10E-01	9.71E-01	1.22E+00	1.63E+00	1.90E+00	2.46E+00	2.91E+00	3.60E+00	4.34E+00	4.47E+00	5.36E+00	6.11E+00	7.71E+00	8.08E+00	8.07E+00
5.0E-01	2.48E-02	1.13E-01	1.57E-01	2.51E-01	4.47E-01	5.64E-01	8.09E-01	9.70E-01	1.22E+00	1.61E+00	1.89E+00	2.45E+00	2.90E+00	3.58E+00	4.33E+00	4.46E+00	5.23E+00	5.96E+00	7.51E+00	7.67E+00	7.67E+00
6.0E-01	2.48E-02	1.13E-01	1.57E-01	2.50E-01	4.45E-01	5.63E-01	8.08E-01	9.69E-01	1.21E+00	1.60E+00	1.87E+00	2.44E+00	2.89E+00	3.57E+00	4.31E+00	4.44E+00	5.11E+00	5.80E+00	7.26E+00	7.38E+00	7.38E+00
7.0E-01	2.48E-02	1.13E-01	1.57E-01	2.50E-01	4.44E-01	5.61E-01	8.07E-01	9.68E-01	1.21E+00	1.59E+00	1.86E+00	2.42E+00	2.87E+00	3.56E+00	4.30E+00	4.43E+00	4.98E+00	5.63E+00	6.98E+00	7.10E+00	7.09E+00
8.0E-01	2.48E-02	1.13E-01	1.57E-01	2.50E-01	4.43E-01	5.60E-01	8.05E-01	9.66E-01	1.21E+00	1.58E+00	1.85E+00	2.41E+00	2.86E+00	3.54E+00	4.28E+00	4.41E+00	4.86E+00	5.46E+00	6.67E+00	6.78E+00	6.78E+00
1.0E+00	2.48E-02	1.13E-01	1.56E-01	2.50E-01	4.39E-01	5.56E-01	8.02E-01	9.63E-01	1.21E+00	1.54E+00	1.81E+00	2.37E+00	2.81E+00	3.49E+00	4.23E+00	4.36E+00	4.63E+00	5.11E+00	6.03E+00	6.11E+00	6.11E+00
1.2E+00	2.48E-02	1.12E-01	1.56E-01	2.50E-01	4.35E-01	5.52E-01	7.97E-01	9.58E-01	1.20E+00	1.51E+00	1.77E+00	2.32E+00	2.77E+00	3.44E+00	4.17E+00	4.29E+00	4.46E+00	4.81E+00	5.45E+00	5.49E+00	5.49E+00
1.4E+00	2.48E-02	1.12E-01	1.55E-01	2.49E-01	4.30E-01	5.47E-01	7.92E-01	9.53E-01	1.20E+00	1.47E+00	1.73E+00	2.26E+00	2.70E+00	3.37E+00	4.08E+00	4.20E+00	4.31E+00	4.55E+00	4.96E+00	4.99E+00	4.99E+00
1.6E+00	2.48E-02	1.12E-01	1.55E-01	2.49E-01	4.25E-01	5.42E-01	7.86E-01	9.47E-01	1.19E+00	1.43E+00	1.68E+00	2.19E+00	2.63E+00	3.30E+00	3.99E+00	4.10E+00	4.18E+00	4.34E+00	4.59E+00	4.60E+00	4.60E+00
1.8E+00	2.48E-02	1.11E-01	1.55E-01	2.48E-01	4.18E-01	5.35E-01	7.79E-01	9.40E-01	1.18E+00	1.39E+00	1.63E+00	2.12E+00	2.55E+00	3.21E+00	3.87E+00	3.98E+00	4.06E+00	4.15E+00	4.30E+00	4.31E+00	4.31E+00
2.0E+00	2.48E-02	1.11E-01	1.54E-01	2.48E-01	4.12E-01	5.28E-01	7.71E-01	9.32E-01	1.18E+00	1.35E+00	1.58E+00	2.04E+00	2.46E+00	3.10E+00	3.73E+00	3.84E+00	3.91E+00	3.97E+00	4.07E+00	4.07E+00	4.08E+00
2.4E+00	2.48E-02	1.09E-01	1.53E-01	2.47E-01	3.98E-01	5.13E-01	7.53E-01	9.14E-01	1.16E+00	1.28E+00	1.48E+00	1.87E+00	2.27E+00	2.87E+00	3.43E+00	3.53E+00	3.60E+00	3.63E+00	3.68E+00	3.69E+00	3.69E+00
3.0E+00	2.48E-02	1.07E-01	1.51E-01	2.44E-01	3.75E-01	4.87E-01	7.22E-01	8.83E-01	1.13E+00	1.20E+00	1.34E+00	1.63E+00	1.97E+00	2.48E+00	2.94E+00	3.01E+00	3.06E+00	3.09E+00	3.14E+00	3.14E+00	3.14E+00
4.0E+00	2.46E-02	1.03E-01	1.46E-01	2.39E-01	3.34E-01	4.40E-01	6.58E-01	8.16E-01	1.06E+00	1.10E+00	1.17E+00	1.30E+00	1.53E+00	1.86E+00	2.22E+00	2.27E+00	2.28E+00	2.30E+00	2.34E+00	2.34E+00	2.28E+00
5.0E+00	2.44E-02	9.70E-02	1.40E-01	2.33E-01	2.97E-01	3.92E-01	5.84E-01	7.40E-01	9.76E-01	1.01E+00	1.05E+00	1.10E+00	1.23E+00	1.40E+00	1.59E+00	1.62E+00	1.63E+00	1.64E+00	1.65E+00	1.66E+00	1.66E+00
6.0E+00	2.42E-02	9.08E-02	1.34E-01	2.26E-01	2.67E-01	3.48E-01	5.08E-01	6.57E-01	8.84E-01	9.19E-01	9.37E-01	9.71E-01	1.03E+00	1.12E+00	1.23E+00	1.25E+00	1.26E+00	1.26E+00	1.27E+00	1.27E+00	1.27E+00
7.0E+00	2.40E-02	8.42E-02	1.27E-01	2.18E-01	2.45E-01	3.10E-01	4.36E-01	5.76E-01	7.89E-01	8.15E-01	8.30E-01	8.62E-01	8.91E-01	9.31E-01	1.00E+00	1.02E+00	1.02E+00	1.02E+00	1.03E+00	1.03E+00	1.03E+00
8.0E+00	2.38E-02	7.74E-02	1.19E-01	2.09E-01	2.28E-01	2.78E-01	3.73E-01	5.01E-01	6.96E-01	7.12E-01	7.28E-01	7.59E-01	7.75E-01	7.98E-01	8.43E-01	8.50E-01	8.53E-01	8.55E-01	8.59E-01	8.59E-01	8.59E-01
1.0E+01	2.40E-02	6.40E-02	1.04E-01	1.88E-01	2.03E-01	2.29E-01	2.77E-01	3.77E-01	5.27E-01	5.44E-01	5.56E-01	5.66E-01	5.78E-01	5.96E-01	6.13E-01	6.15E-01	6.17E-01	6.18E-01	6.21E-01	6.21E-01	6.20E-01
1.5E+01	2.20E-02	3.90E-02	7.10E-02	1.35E-01	1.47E-01	1.52E-01	1.63E-01	2.03E-01	2.63E-01	2.66E-01	2.68E-01	2.71E-01	2.79E-01	2.91E-01	2.93E-01	2.93E-01	2.94E-01	2.94E-01	2.95E-01	2.95E-01	3.00E-01
2.0E+01	1.92E-02	2.52E-02	4.72E-02	9.12E-02	9.60E-02	1.00E-01	1.09E-01	1.23E-01	1.43E-01	1.45E-01	1.46E-01	1.47E-01	1.51E-01	1.55E-01	1.55E-01	1.55E-01	1.56E-01	1.56E-01	1.56E-01	1.56E-01	1.60E-01
3.0E+01	1.42E-02	1.64E-02	2.56E-02	4.16E-02	4.22E-02	4.48E-02	4.96E-02	5.12E-02	5.35E-02	5.37E-02	5.42E-02	5.53E-02	5.57E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.64E-02	5.65E-02	5.65E-02	5.70E-02
4.0E+01	1.00E-02	1.20E-02	1.54E-02	2.06E-02	2.10E-02	2.20E-02	2.36E-02	2.39E-02	2.42E-02	2.43E-02	2.45E-02	2.49E-02	2.50E-02	2.51E-02	2.51E-02	2.51E-02	2.51E-02	2.51E-02	2.52E-02	2.52E-02	2.50E-02
6.0E+01	4.40E-03	5.44E-03	5.98E-03	6.66E-03	6.90E-03	7.05E-03	7.24E-03	7.26E-03	7.27E-03	7.33E-03	7.36E-03	7.41E-03	7.41E-03	7.41E-03	7.41E-03	7.41E-03	7.42E-03	7.43E-03	7.43E-03	7.43E-03	7.50E-03
1.0E+02	9.20E-04	1.10E-03	1.13E-03	1.16E-03	1.20E-03	1.21E-03	1.22E-03	1.22E-03	1.22E-03	1.23E-03	1.23E-03	1.23E-03	1.23E-03	1.23E-03	1.23E-03	1.23E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.20E-03
E[keV]:	4.85E+01	8.05E+00	7.62E+00	6.98E+00	1.80E+00	1.62E+00	1.49E+00	1.17E+00	1.14E+00	3.66E-01	2.61E-01	2.61E-01	1.41E-01	1.36E-01	0.00E+00	0.00E+00	3.70E-02	2.70E-02	2.70E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	5.01E+00	7.43E+00	8.56E+00	9.25E+00	9.69E+00	1.05E+01	1.10E+01	1.12E+01	1.14E+01	1.16E+01	1.17E+01	1.19E+01	1.20E+01	1.21E+01	1.21E+01	1.22E+01	1.22E+01				
5.0E-02	4.83E+00	7.26E+00	8.38E+00	9.06E+00	9.51E+00	1.03E+01	1.08E+01	1.10E+01	1.12E+01	1.14E+01	1.15E+01	1.17E+01	1.18E+01	1.19E+01	1.20E+01	1.20E+01	1.20E+01				
1.0E-01	4.35E+00	6.77E+00	7.89E+00	8.57E+00	9.02E+00	9.86E+00	1.03E+01	1.05E+01	1.07E+01	1.09E+01	1.10E+01	1.12E+01	1.13E+01	1.14E+01	1.15E+01	1.15E+01	1.15E+01				
1.5E-01	3.69E+00	6.11E+00	7.20E+00	7.89E+00	8.34E+00	9.17E+00	9.60E+00	9.84E+00	1.00E+01	1.02E+01	1.04E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.08E+01	1.08E+01				
2.0E-01	2.99E+00	5.41E+00	6.47E+00	7.15E+00	7.60E+00	8.44E+00	8.86E+00	9.10E+00	9.27E+00	9.51E+00	9.63E+00	9.83E+00	9.92E+00	9.96E+00	1.01E+01	1.01E+01	1.01E+01				
3.0E-01	1.84E+00	4.24E+00	5.22E+00	5.91E+00	6.35E+00	7.19E+00	7.61E+00	7.85E+00	8.01E+00	8.26E+00	8.38E+00	8.57E+00	8.67E+00	8.71E+00	8.80E+00	8.82E+00	8.82E+00				
4.0E-01	1.24E+00	3.59E+00	4.48E+00	5.16E+00	5.61E+00	6.45E+00	6.86E+00	7.10E+00	7.27E+00	7.51E+00	7.63E+00	7.83E+00	7.92E+00	7.96E+00	8.05E+00	8.08E+00	8.07E+00				
5.0E-01	1.04E+00	3.31E+00	4.09E+00	4.77E+00	5.22E+00	6.05E+00	6.45E+00	6.70E+00	6.86E+00	7.10E+00	7.22E+00	7.42E+00	7.51E+00	7.56E+00	7.64E+00	7.67E+00	7.67E+00				
6.0E-01	9.96E-01	3.15E+00	3.81E+00	4.49E+00	4.94E+00	5.78E+00	6.17E+00	6.41E+00	6.57E+00	6.82E+00	6.93E+00	7.13E+00	7.22E+00	7.27E+00	7.35E+00	7.38E+00	7.38E+00				
7.0E-01	9.94E-01	2.99E+00	3.54E+00	4.22E+00	4.67E+00	5.51E+00	5.88E+00	6.13E+00	6.29E+00	6.53E+00	6.65E+00	6.85E+00	6.94E+00	6.98E+00	7.07E+00	7.10E+00	7.09E+00				
8.0E-01	9.89E-01	2.80E+00	3.24E+00	3.93E+00	4.38E+00	5.21E+00	5.57E+00	5.82E+00	5.98E+00	6.22E+00	6.34E+00	6.53E+00	6.63E+00	6.67E+00	6.76E+00	6.78E+00	6.78E+00				
1.0E+00	9.47E-01	2.34E+00	2.62E+00	3.30E+00	3.74E+00	4.57E+00	4.90E+00	5.15E+00	5.31E+00	5.55E+00	5.67E+00	5.86E+00	5.95E+00	6.00E+00	6.08E+00	6.11E+00	6.11E+00				
1.2E+00	8.96E-01	1.88E+00	2.05E+00	2.73E+00	3.18E+00	3.99E+00	4.29E+00	4.53E+00	4.70E+00	4.94E+00	5.06E+00	5.24E+00	5.34E+00	5.38E+00	5.47E+00	5.49E+00	5.49E+00				
1.4E+00	8.52E-01	1.51E+00	1.61E+00	2.28E+00	2.73E+00	3.52E+00	3.79E+00	4.03E+00	4.19E+00	4.44E+00	4.56E+00	4.74E+00	4.83E+00	4.87E+00	4.96E+00	4.99E+00	4.99E+00				
1.6E+00	8.18E-01	1.23E+00	1.31E+00	1.97E+00	2.41E+00	3.17E+00	3.41E+00	3.65E+00	3.82E+00	4.06E+00	4.18E+00	4.35E+00	4.45E+00	4.49E+00	4.58E+00	4.60E+00	4.60E+00				
1.8E+00	7.78E-01	1.03E+00	1.10E+00	1.76E+00	2.19E+00	2.92E+00	3.12E+00	3.37E+00	3.53E+00	3.77E+00	3.89E+00	4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63Eu
Σi Ji(Q)
Q

Z=64

Compton profiles for the single orbitals and binding energies

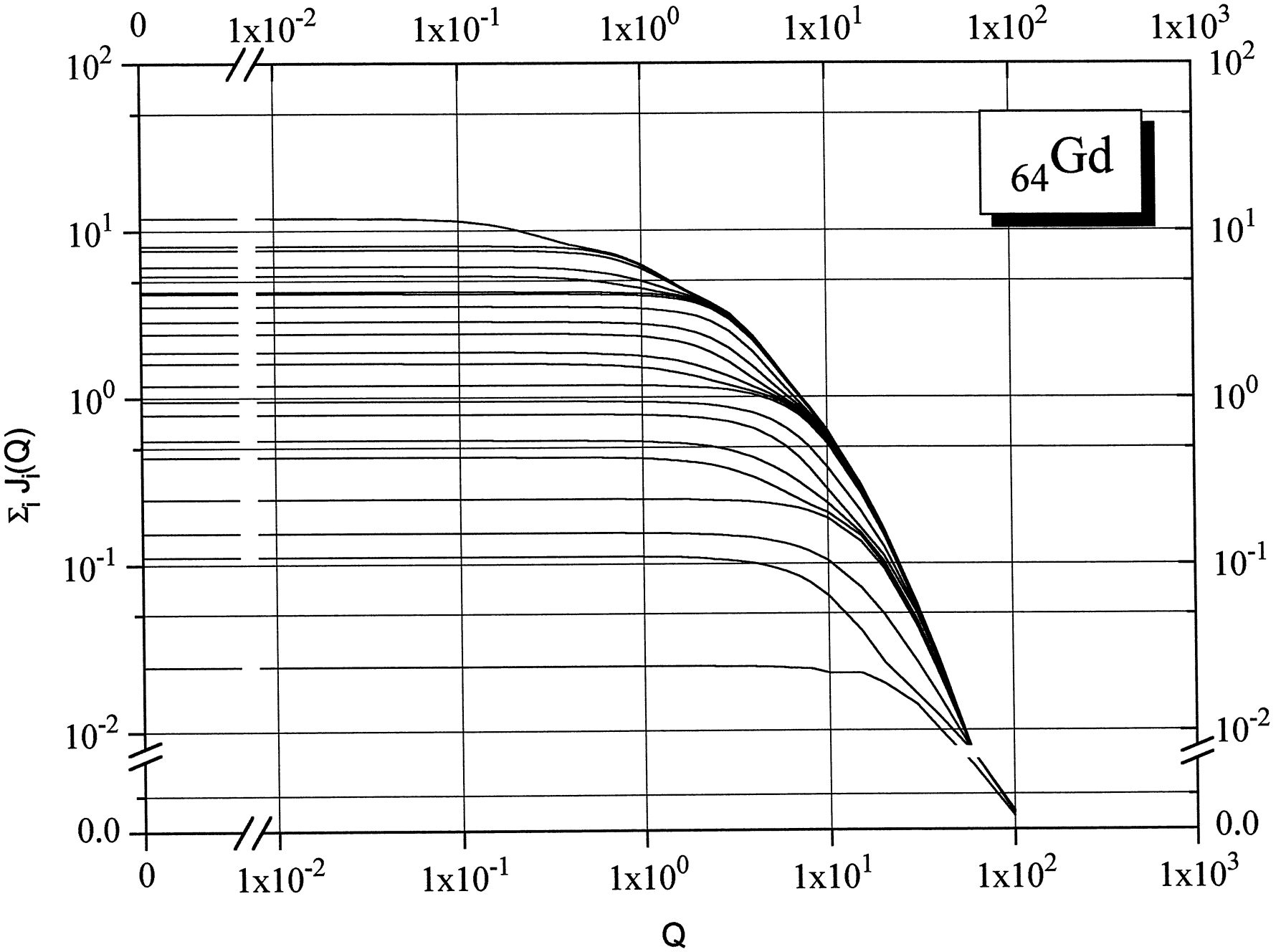
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(1)	5s+(2)	5p-(2)	5p+(4)	5d-(1)	5d+(2)	Total
0.0E+00	1.22E-02	4.34E-02	2.14E-02	2.30E-02	9.71E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	2.07E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	5.38E-01	3.66E-01	3.91E-01	4.68E-01	1.93E+00	1.20E+01
5.0E-02	1.22E-02	4.34E-02	2.14E-02	2.30E-02	9.71E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	2.07E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	5.36E-01	3.66E-01	3.91E-01	4.69E-01	1.85E+00	1.19E+01
1.0E-01	1.22E-02	4.34E-02	2.14E-02	2.30E-02	9.71E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	2.06E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	5.31E-01	3.66E-01	3.91E-01	4.68E-01	1.66E+00	1.14E+01
1.5E-01	1.22E-02	4.34E-02	2.14E-02	2.30E-02	9.70E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	2.06E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	5.22E-01	3.66E-01	3.91E-01	4.67E-01	1.37E+00	1.09E+01
2.0E-01	1.22E-02	4.34E-02	2.14E-02	2.30E-02	9.69E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	2.05E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	5.09E-01	3.66E-01	3.90E-01	4.67E-01	1.06E+00	1.02E+01
3.0E-01	1.22E-02	4.34E-02	2.14E-02	2.30E-02	9.67E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	2.03E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	4.75E-01	3.64E-01	3.88E-01	4.63E-01	5.30E-01	9.05E+00
4.0E-01	1.22E-02	4.34E-02	2.14E-02	2.30E-02	9.64E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	2.00E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	4.32E-01	3.59E-01	3.81E-01	4.52E-01	2.21E-01	8.29E+00
5.0E-01	1.22E-02	4.33E-02	2.14E-02	2.30E-02	9.60E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	1.96E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	3.82E-01	3.50E-01	3.70E-01	4.28E-01	9.63E-02	7.85E+00
6.0E-01	1.22E-02	4.33E-02	2.14E-02	2.30E-02	9.55E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	1.91E-01	1.32E-01	1.38E-01	1.09E-01	1.10E-01	1.13E-01	1.16E-01	3.30E-01	3.36E-01	3.52E-01	3.93E-01	6.33E-02	7.53E+00
7.0E-01	1.22E-02	4.33E-02	2.14E-02	2.30E-02	9.50E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	1.85E-01	1.31E-01	1.37E-01	1.08E-01	1.10E-01	1.13E-01	1.16E-01	2.78E-01	3.18E-01	3.29E-01	3.51E-01	5.95E-02	7.24E+00
8.0E-01	1.22E-02	4.32E-02	2.14E-02	2.30E-02	9.43E-02	5.73E-02	6.01E-02	3.94E-02	3.99E-02	1.79E-01	1.31E-01	1.37E-01	1.08E-01	1.10E-01	1.13E-01	1.16E-01	2.29E-01	2.95E-01	3.01E-01	3.05E-01	5.87E-02	6.91E+00
1.0E+00	1.22E-02	4.31E-02	2.14E-02	2.30E-02	9.28E-02	5.73E-02	6.00E-02	3.94E-02	3.99E-02	1.66E-01	1.30E-01	1.36E-01	1.08E-01	1.10E-01	1.13E-01	1.15E-01	1.46E-01	2.40E-01	2.36E-01	2.16E-01	4.61E-02	6.22E+00
1.2E+00	1.22E-02	4.29E-02	2.14E-02	2.30E-02	9.09E-02	5.73E-02	6.00E-02	3.94E-02	3.99E-02	1.50E-01	1.28E-01	1.34E-01	1.08E-01	1.10E-01	1.12E-01	1.14E-01	9.00E-02	1.81E-01	1.70E-01	1.44E-01	2.81E-02	5.57E+00
1.4E+00	1.22E-02	4.28E-02	2.14E-02	2.30E-02	8.88E-02	5.72E-02	5.99E-02	3.94E-02	3.99E-02	1.34E-01	1.26E-01	1.30E-01	1.08E-01	1.09E-01	1.10E-01	1.13E-01	5.75E-02	1.28E-01	1.15E-01	9.24E-02	1.48E-02	5.03E+00
1.6E+00	1.22E-02	4.26E-02	2.14E-02	2.30E-02	8.64E-02	5.71E-02	5.98E-02	3.94E-02	3.99E-02	1.18E-01	1.22E-01	1.26E-01	1.07E-01	1.08E-01	1.08E-01	1.10E-01	4.21E-02	8.55E-02	7.30E-02	5.74E-02	7.44E-03	4.61E+00
1.8E+00	1.22E-02	4.23E-02	2.14E-02	2.30E-02	8.38E-02	5.70E-02	5.97E-02	3.94E-02	3.99E-02	1.02E-01	1.18E-01	1.21E-01	1.05E-01	1.07E-01	1.05E-01	1.07E-01	3.67E-02	5.49E-02	4.50E-02	3.48E-02	4.16E-03	4.29E+00
2.0E+00	1.22E-02	4.21E-02	2.14E-02	2.30E-02	8.10E-02	5.69E-02	5.95E-02	3.94E-02	3.99E-02	8.75E-02	1.12E-01	1.14E-01	1.04E-01	1.05E-01	1.02E-01	1.03E-01	3.57E-02	3.49E-02	2.82E-02	2.08E-02	3.04E-03	4.05E+00
2.4E+00	1.22E-02	4.15E-02	2.14E-02	2.30E-02	7.48E-02	5.65E-02	5.90E-02	3.94E-02	3.99E-02	6.19E-02	9.87E-02	9.89E-02	9.80E-02	9.90E-02	9.34E-02	9.37E-02	3.47E-02	1.71E-02	1.52E-02	7.77E-03	2.80E-03	3.67E+00
3.0E+00	1.21E-02	4.05E-02	2.14E-02	2.30E-02	6.48E-02	5.54E-02	5.77E-02	3.93E-02	3.99E-02	3.60E-02	7.51E-02	7.26E-02	8.51E-02	8.54E-02	7.85E-02	7.80E-02	2.52E-02	1.33E-02	1.34E-02	3.37E-03	2.27E-03	3.16E+00
4.0E+00	1.21E-02	3.84E-02	2.14E-02	2.29E-02	4.78E-02	5.21E-02	5.37E-02	3.90E-02	3.95E-02	2.02E-02	3.88E-02	3.51E-02	5.74E-02	5.67E-02	5.44E-02	5.33E-02	8.28E-03	1.09E-02	9.77E-03	3.05E-03	7.70E-04	2.33E+00
5.0E+00	1.20E-02	3.58E-02	2.13E-02	2.28E-02	3.28E-02	4.70E-02	4.77E-02	3.83E-02	3.87E-02	1.89E-02	1.74E-02	1.52E-02	3.26E-02	3.16E-02	3.56E-02	3.45E-02	3.45E-03	5.38E-03	4.26E-03	2.21E-03	2.69E-04	1.70E+00
6.0E+00	1.19E-02	3.30E-02	2.12E-02	2.26E-02	2.15E-02	4.04E-02	4.01E-02	3.69E-02	3.73E-02	1.76E-02	9.28E-03	8.88E-03	1.64E-02	1.56E-02	2.26E-02	2.18E-02	3.16E-03	2.15E-03	1.66E-03	1.22E-03	2.31E-04	1.30E+00
7.0E+00	1.18E-02	2.99E-02	2.09E-02	2.24E-02	1.41E-02	3.31E-02	3.20E-02	3.48E-02	3.51E-02	1.36E-02	7.65E-03	6.01E-03	7.91E-03	7.45E-03	1.41E-02	1.35E-02	2.81E-03	1.13E-03	1.02E-03	5.86E-04	2.10E-04	1.05E+00
8.0E+00	1.17E-02	2.68E-02	2.06E-02	2.20E-02	9.86E-03	2.59E-02	2.43E-02	3.20E-02	3.22E-02	8.91E-03	7.58E-03	7.89E-03	4.33E-03	4.13E-03	8.80E-03	8.39E-03	2.00E-03	9.85E-04	9.80E-04	2.86E-04	1.52E-04	8.75E-01
1.0E+01	1.10E-02	2.10E-02	2.00E-02	2.10E-02	7.30E-03	1.40E-02	1.20E-02	2.50E-02	2.50E-02	3.10E-03	6.10E-03	5.70E-03	2.90E-03	2.90E-03	3.40E-03	3.20E-03	6.90E-04	8.80E-04	8.00E-04	1.50E-04	5.20E-05	6.30E-01
1.5E+01	1.10E-02	8.80E-03	1.60E-02	1.60E-02	6.10E-03	2.80E-03	2.60E-03	1.10E-02	1.00E-02	1.60E-03	1.10E-03	8.90E-04	2.20E-03	2.10E-03	3.70E-04	3.40E-04	2.60E-04	1.70E-04	1.30E-04	1.10E-04	1.90E-05	3.00E-01
2.0E+01	9.50E-03	3.20E-03	1.20E-02	1.10E-02	2.60E-03	2.00E-03	2.30E-03	3.80E-03	3.60E-03	8.50E-04	4.10E-04	4.60E-04	8.80E-04	8.30E-04	5.10E-05	4.70E-05	1.40E-04	5.50E-05	5.60E-05	4.70E-05	1.00E-05	1.60E-01
3.0E+01	7.10E-03	1.10E-03	4.80E-03	4.20E-03	3.00E-04	1.30E-03	1.20E-03	4.70E-04	4.20E-04	8.10E-05	3.00E-04	2.90E-04	1.10E-04	1.00E-04	2.00E-06	1.80E-06	1.30E-05	4.00E-05	3.60E-05	6.10E-06	9.70E-07	5.80E-02
4.0E+01	5.00E-03	1.00E-03	1.80E-03	1.40E-03	2.20E-04	5.30E-04	4.30E-04	7.20E-05	6.20E-05	5.10E-05	1.20E-04	1.00E-04	1.70E-05	1.50E-05	1.40E-07	1.20E-07	8.00E-06	1.70E-05	1.30E-05	9.30E-07	5.80E-07	2.60E-02
6.0E+01	2.30E-03	5.40E-04	2.90E-04	1.80E-04	1.30E-04	8.20E-05	5.30E-05	3.50E-06	2.70E-06	3.00E-05	1.90E-05	1.20E-05	8.30E-07	6.20E-07	2.50E-09	2.00E-09	4.80E-06	2.60E-06	1.60E-06	4.40E-08	3.50E-07	7.80E-03
1.0E+02	4.90E-04	9.60E-05	1.90E-05	8.00E-06	2.20E-05	4.90E-06	2.20E-06	5.70E-08	3.40E-08	6.20E-06	1.10E-06	4.90E-07	1.30E-08	7.70E-09	1.40E-11	9.10E-12	8.20E-07	1.50E-07	6.20E-08	6.90E-10	5.90E-08	1.30E-03
E[keV]:	5.02E+01	8.38E+00	7.93E+00	7.24E+00	1.89E+00	1.69E+00	1.55E+00	1.23E+00	1.19E+00	3.83E-01	3.11E-01	2.72E-01	1.47E-01	1.42E-01	0.00E+00	0.00E+00	4.30E-02	2.80E-02	2.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(1)	5s+(2)	5p-(2)	5p+(4)	5d-(1)	5d+(2)	Total
0.0E+00	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.40E-01	5.55E-01	7.95E-01	9.53E-01	1.19E+00	1.61E+00	1.87E+00	2.42E+00	2.86E+00	3.52E+00	4.20E+00	4.31E+00	5.39E+00	6.12E+00	7.68E+00	8.15E+00	1.20E+01	1.20E+01
5.0E-02	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.40E-01	5.55E-01	7.95E-01	9.53E-01	1.19E+00	1.61E+00	1.87E+00	2.42E+00	2.86E+00	3.52E+00	4.20E+00	4.31E+00	5.38E+00	6.12E+00	7.68E+00	8.15E+00	1.18E+01	1.19E+01
1.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.40E-01	5.55E-01	7.95E-01	9.53E-01	1.19E+00	1.60E+00	1.87E+00	2.42E+00	2.86E+00	3.52E+00	4.19E+00	4.31E+00	5.37E+00	6.10E+00	7.67E+00	8.14E+00	1.15E+01	1.14E+01
1.5E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.40E-01	5.55E-01	7.95E-01	9.53E-01	1.19E+00	1.60E+00	1.87E+00	2.42E+00	2.86E+00	3.52E+00	4.19E+00	4.31E+00	5.35E+00	6.09E+00	7.65E+00	8.12E+00	1.09E+01	1.09E+01
2.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.40E-01	5.54E-01	7.95E-01	9.52E-01	1.19E+00	1.60E+00	1.87E+00	2.42E+00	2.85E+00	3.51E+00	4.19E+00	4.31E+00	5.33E+00	6.06E+00	7.62E+00	8.08E+00	1.02E+01	1.02E+01
3.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.39E-01	5.54E-01	7.94E-01	9.52E-01	1.19E+00	1.60E+00	1.86E+00	2.41E+00	2.85E+00	3.51E+00	4.19E+00	4.30E+00	5.25E+00	5.98E+00	7.53E+00	8.00E+00	9.06E+00	9.05E+00
4.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.39E-01	5.53E-01	7.94E-01	9.51E-01	1.19E+00	1.59E+00	1.85E+00	2.41E+00	2.84E+00	3.50E+00	4.18E+00	4.30E+00	5.16E+00	5.88E+00	7.40E+00	7.85E+00	8.30E+00	8.29E+00
5.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.38E-01	5.52E-01	7.93E-01	9.50E-01	1.19E+00	1.58E+00	1.85E+00	2.40E+00	2.83E+00	3.49E+00	4.17E+00	4.29E+00	5.05E+00	5.75E+00	7.23E+00	7.66E+00	7.85E+00	7.85E+00
6.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.37E-01	5.51E-01	7.92E-01	9.49E-01	1.19E+00	1.57E+00	1.84E+00	2.39E+00	2.82E+00	3.48E+00	4.16E+00	4.28E+00	4.96E+00	5.61E+00	7.02E+00	7.41E+00	7.54E+00	7.53E+00
7.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.36E-01	5.50E-01	7.91E-01	9.48E-01	1.19E+00	1.56E+00	1.82E+00	2.37E+00	2.80E+00	3.46E+00	4.14E+00	4.25E+00	4.81E+00	5.45E+00	6.76E+00	7.11E+00	7.23E+00	7.24E+00
8.0E-01	2.44E-02	1.11E-01	1.54E-01	2.46E-01	4.34E-01	5.49E-01	7.89E-01	9.47E-01	1.19E+00	1.54E+00	1.81E+00	2.35E+00	2.79E+00	3.45E+00	4.12E+00	4.24E+00	4.70E+00	5.29E+00	6.49E+00	6.80E+00	6.91E+00	6.91E+00
1.0E+00	2.44E-02	1.11E-01	1.53E-01	2.45E-01	4.31E-01	5.46E-01	7.86E-01	9.43E-01	1.18E+00	1.51E+00	1.77E+00	2.32E+00	2.75E+00	3.41E+00	4.09E+00	4.20E+00	4.50E+00	4.98E+00	5.92E+00	6.14E+00	6.23E+00	6.22E+00
1.2E+00	2.44E-02	1.10E-01	1.53E-01	2.45E-01	4.27E-01	5.41E-01	7.81E-01	9.39E-01	1.18E+00	1.48E+00	1.73E+00	2.27E+00	2.70E+00	3.36E+00	4.03E+00	4.15E+00	4.33E+00	4.69E+00	5.37E+00	5.51E+00	5.57E+00	5.57E+00
1.4E+00	2.44E-02	1.10E-01	1.53E-01	2.45E-01	4.22E-01	5.37E-01	7.76E-01	9.34E-01	1.17E+00	1.44E+00	1.69E+00	2.21E+00	2.65E+00	3.30E+00	3.96E+00	4.07E+00	4.19E+00	4.44E+00	4.90E+00	5.00E+00	5.03E+00	5.03E+00
1.6E+00	2.44E-02	1.10E-01	1.52E-01	2.44E-01	4.17E-01	5.31E-01	7.71E-01	9.28E-01	1.17E+00	1.40E+00	1.65E+00	2.15E+00	2.58E+00	3.23E+00	3.88E+00	3.99E+00	4.07E+00	4.24E+00	4.53E+00	4.59E+00	4.61E+00	4.61E+00
1.8E+00	2.44E-02	1.09E-01	1.52E-01	2.44E-01	4.11E-01	5.25E-01	7.64E-01	9.22E-01	1.16E+00	1.37E+00	1.60E+00	2.09E+00	2.51E+00	3.15E+00	3.78E+00	3.88E+00	3.96E+00	4.07E+00	4.25E+00	4.28E+00	4.29E+00	4.29E+00
2.0E+00	2.44E-02	1.09E-01	1.51E-01	2.43E-01	4.05E-01	5.19E-01	7.57E-01	9.15E-01	1.15E+00	1.33E+00	1.55E+00	2.01E+00	2.43E+00	3.06E+00	3.67E+00	3.77E+00	3.84E+00	3.91E+00	4.02E+00	4.05E+00	4.05E+00	4.05E+00
2.4E+00	2.44E-02	1.07E-01	1.50E-01	2.42E-01	3.92E-01	5.05E-01	7.41E-01	8.98E-01	1.14E+00	1.26E+00	1.46E+00	1.85E+00	2.25E+00	2.84E+00	3.40E+00	3.49E+00	3.56E+00	3.60E+00	3.66E+00	3.67E+00	3.67E+00	3.67E+00
3.0E+00	2.42E-02	1.05E-01	1.48E-01	2.40E-01	3.70E-01	4.80E-01	7.11E-01	8.66E-01	1.11E+00	1.18E+00	1.33E+00	1.62E+00	1.96E+00	2.47E+00	2.94E+00	3.02E+00	3.07E+00	3.10E+00	3.15E+00	3.16E+00	3.16E+00	3.16E+00
4.0E+00	2.42E-02	1.01E-01	1.44E-01	2.35E-01	3.31E-01	4.35E-01	6.50E-01	8.06E-01	1.04E+00	1.08E+00	1.16E+00	1.30E+00	1.52E+00	1.87E+00	2.20E+00	2.25E+00	2.27E+00	2.29E+00	2.33E+00	2.33E+00	2.33E+00	2.33E+00
5.0E+00	2.40E-02	9.56E-02	1.38E-01	2.29E-01	2.95E-01	3.89E-01	5.80E-01	7.33E-01	9.65E-01	1.00E+00	1.04E+00	1.10E+00	1.23E+00	1.42E+00	1.63E+00	1.67E+00	1.67E+00	1.68E+00	1.70E+00	1.70E+00	1.70E+00	1.70E+00
6.0E+00	2.39E-02	8.98E-02	1.32E-01	2.22E-01	2.65E-01	3.46E-01	5.07E-01	6.54E-01	8.78E-01	9.13E-01	9.32E-01	9.67E-01	1.03E+00	1.13E+00	1.26E+00	1.28E+00	1.29E+00	1.29E+00	1.30E+00	1.30E+00	1.30E+00	1.30E+00
7.0E+00	2.36E-02	8.34E-02	1.25E-01	2.15E-01	2.43E-01	3.09E-01	4.37E-01	5.76E-01	7.87E-01	8.14E-01	8.30E-01	8.62E-01	8.93E-01	9.38E-01	1.02E+00	1.04E+00	1.04E+00	1.04E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00
8.0E+00	2.34E-02	7.70E-02	1.18E-01	2.06E-01	2.26E-01	2.78E-01	3.75E-01	5.03E-01	6.96E-01	7.14E-01	7.29E-01	7.61E-01	7.78E-01	8.03E-01	8.56E-01	8.64E-01	8.68E-01	8.70E-01	8.74E-01	8.74E-01	8.74E-01	8.75E-01
1.0E+01	2.20E-02	6.40E-02	1.04E-01	1.88E-01	2.03E-01	2.31E-01	2.79E-01	3.79E-01	5.29E-01	5.35E-01	5.47E-01	5.70E-01	5.81E-01	5.99E-01	6.19E-01	6.22E-01	6.24E-01	6.26E-01	6.29E-01	6.29E-01	6.29E-01	6.30E-01
1.5E+01	2.20E-02	3.96E-02	7.16E-02	1.36E-01	1.48E-01	1.53E-01	1.64E-01	2.08E-01	2.66E-01	2.71E-01	2.73E-01	2.77E-01	2.86E-01	2.98E-01	3.00E-01	3.01E-01	3.01E-01	3.02E-01	3.02E-01	3.02E-01	3.02E-01	3.00E-01
2.0E+01	1.90E-02	2.54E-02	4.94E-02	9.34E-02	9.86E-02	1.03E-01	1.12E-01	1.27E-01	1.49E-01	1.50E-01	1.51E-01	1.53E-01	1.56E-01	1.61E-01	1.62E-01	1.62E-01	1.62E-01	1.62E-01	1.62E-01	1.62E-01	1.62E-01	1.60E-01
3.0E+01	1.42E-02	1.64E-02	2.60E-02	4.28E-02	4.34E-02	4.60E-02	5.08E-02	5.27E-02	5.52E-02	5.54E-02	5.60E-02	5.71E-02	5.76E-02	5.82E-02	5.82E-02	5.82E-02	5.82E-02	5.83E-02	5.84E-02	5.84E-02	5.84E-02	5.80E-02
4.0E+01	1.00E-02	1.20E-02	1.56E-02	2.12E-02	2.16E-02	2.27E-02	2.44E-02	2.47E-02	2.51E-02	2.52E-02	2.54E-02	2.58E-02	2.59E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02	2.61E-02	2.61E-02	2.61E-02	2.60E-02
6.0E+01	4.60E-03	5.68E-03	6.26E-03	6.98E-03	7.24E-03	7.40E-03	7.62E-03	7.63E-03	7.65E-03	7.71E-03	7.74E-03	7.79E-03	7.80E-03	7.80E-03	7.80E-03	7.80E-03	7.81E-03	7.81E-03	7.82E-03	7.82E-03	7.82E-03	7.80E-03
1.0E+02	9.80E-04	1.17E-03	1.21E-03	1.24E-03	1.29E-03	1.30E-03	1.30E-03	1.30E-03	1.31E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.32E-03	1.30E-03
E[keV]:	5.02E+01	8.38E+00	7.93E+00	7.24E+00	1.89E+00	1.69E+00	1.55E+00	1.23E+00	1.19E+00	3.83E-01	3.11E-01	2.72E-01	1.47E-01	1.42E-01	0.00E+00	0.00E+00	4.30E-02	2.80E-02	2.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																						
0.0E+00	5.12E+00	7.42E+00	8.49E+00	9.15E+00	9.59E+00	1.01E+01	1.04E+01	1.08E+01	1.11E+01	1.12E+01	1.15E+01	1.16E+01	1.18E+01	1.19E+01	1.19E+01	1.20E+01	1.20E+01	1.20E+01				
5.0E-02	4.96E+00	7.26E+00	8.33E+00	8.99E+00	9.43E+00	9.98E+00	1.02E+01	1.07E+01	1.09E+01	1.11E+01	1.13E+01	1.14E+01	1.16E+01	1.17E+01	1.17E+01	1.18E+01	1.18E+01	1.19E+01				
1.0E-01	4.58E+00	6.88E+00	7.94E+00	8.60E+00	9.04E+00	9.59E+00	9.85E+00	1.03E+01	1.05E+01	1.07E+01	1.09E+01	1.10E+01	1.12E+01	1.13E+01	1.13E+01	1.14E+01	1.15E+01	1.14E+01				
1.5E-01	4.00E+00	6.30E+00	7.34E+00	8.00E+00	8.44E+00	8.99E+00	9.25E+00	9.66E+00	9.90E+00	1.01E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.09E+01	1.09E+01				
2.0E-01	3.38E+00	5.67E+00	6.69E+00	7.35E+00	7.79E+00	8.34E+00	8.60E+00	9.01E+00	9.25E+00	9.41E+00	9.65E+00	9.77E+00	9.96E+00	1.01E+01	1.01E+01	1.02E+01	1.02E+01	1.02E+01				
3.0E-01	2.32E+00	4.60E+00	5.55E+00	6.21E+00	6.64E+00	7.20E+00	7.46E+00	7.87E+00	8.10E+00	8.26E+00	8.50E+00	8.62E+00	8.81E+00	8.90E+00	8.95E+00	9.03E+00	9.06E+00	9.05E+00				
4.0E-01	1.69E+00	3.93E+00	4.79E+00	5.45E+00	5.89E+00	6.44E+00	6.71E+00	7.11E+00	7.35E+00	7.50E+00	7.74E+00	7.86E+00	8.05E+00	8.14E+00	8.19E+00	8.27E+00	8.30E+00	8.29E+00				
5.0E-01	1.41E+00	3.59E+00	4.36E+00	5.02E+00	5.45E+00	6.01E+00	6.27E+00	6.66E+00	6.90E+00	7.06E+00	7.30E+00	7.41E+00	7.61E+00	7.70E+00	7.74E+00	7.83E+00	7.85E+00	7.85E+00				
6.0E-01	1.31E+00	3.39E+00	4.05E+00	4.71E+00	5.15E+00	5.70E+00	5.97E+00	6.35E+00	6.59E+00	6.74E+00	6.99E+00	7.10E+00	7.29E+00	7.38E+00	7.43E+00	7.51E+00	7.54E+00	7.53E+00				
7.0E-01	1.26E+00	3.22E+00	3.77E+00	4.43E+00	4.86E+00	5.41E+00	5.67E+00	6.04E+00	6.28E+00	6.44E+00	6.68E+00	6.80E+00	6.99E+00	7.08E+00	7.12E+00	7.21E+00	7.23E+00	7.24E+00				
8.0E-01	1.22E+00	3.01E+00	3.47E+00	4.13E+00	4.56E+00	5.11E+00	5.37E+00	5.73E+00	5.97E+00	6.13E+00	6.37E+00	6.48E+00	6.67E+00	6.76E+00	6.80E+00	6.89E+00	6.91E+00	6.91E+00				
1.0E+00	1.10E+00	2.53E+00	2.82E+00	3.48E+00	3.91E+00	4.45E+00	4.71E+00	5.05E+00	5.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10^0
10^-1
10^-2
0.0
64Gd
Σ_i J_i(Q)
Q

Z=65

Compton profiles for the single orbitals and binding energies

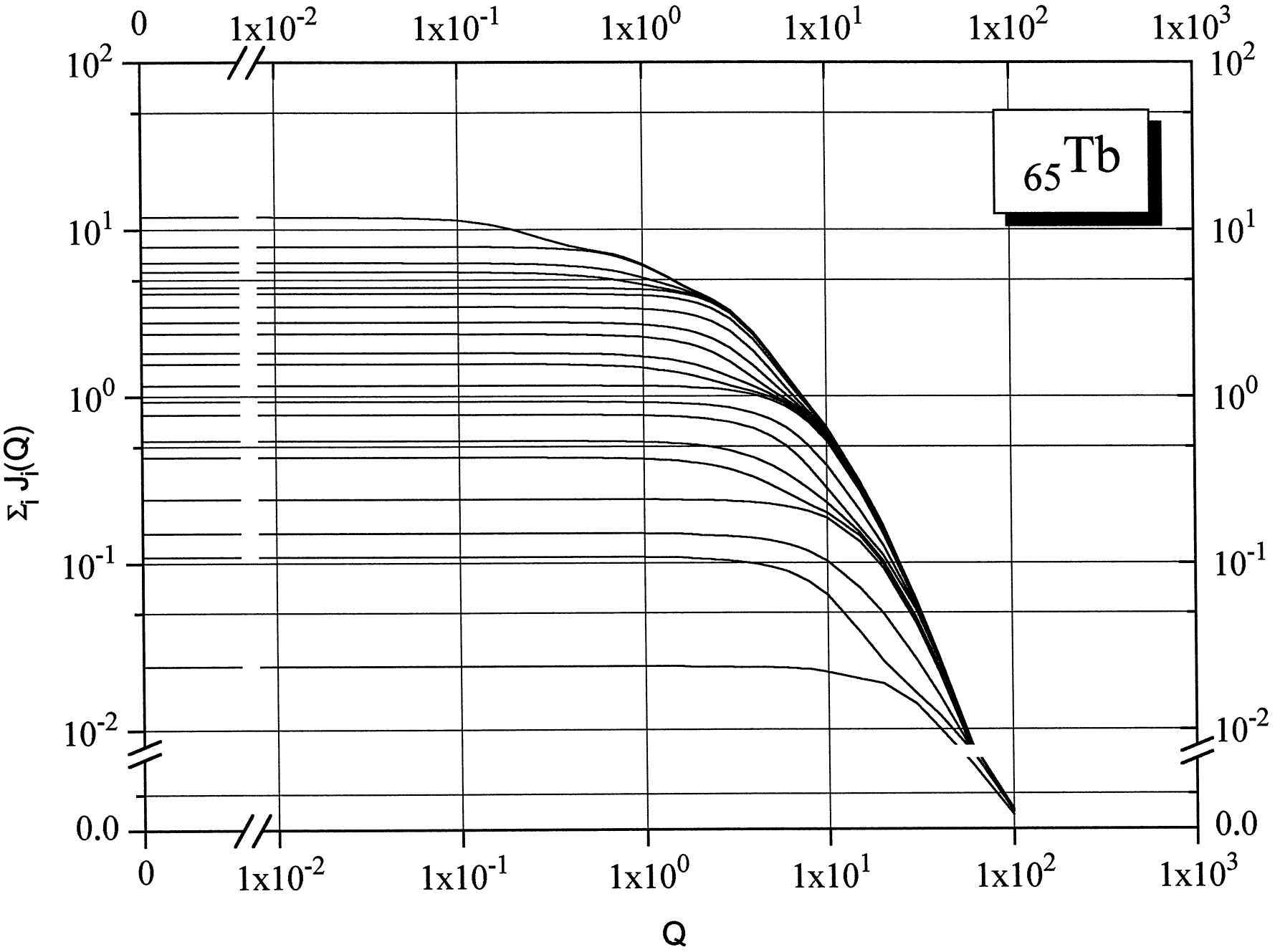
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(3)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	1.20E-02	4.26E-02	2.10E-02	2.26E-02	9.50E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	2.03E-01	1.29E-01	1.36E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	5.44E-01	3.70E-01	4.00E-01	2.03E+00	1.20E+01
5.0E-02	1.20E-02	4.26E-02	2.10E-02	2.26E-02	9.50E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	2.03E-01	1.29E-01	1.36E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	5.42E-01	3.70E-01	4.00E-01	1.94E+00	1.18E+01
1.0E-01	1.20E-02	4.26E-02	2.10E-02	2.26E-02	9.50E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	2.03E-01	1.29E-01	1.36E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	5.37E-01	3.70E-01	4.00E-01	1.72E+00	1.14E+01
1.5E-01	1.20E-02	4.26E-02	2.10E-02	2.26E-02	9.50E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	2.02E-01	1.29E-01	1.36E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	5.28E-01	3.70E-01	4.00E-01	1.41E+00	1.07E+01
2.0E-01	1.20E-02	4.26E-02	2.10E-02	2.26E-02	9.49E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	2.01E-01	1.29E-01	1.36E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	5.15E-01	3.70E-01	3.99E-01	1.07E+00	1.00E+01
3.0E-01	1.20E-02	4.26E-02	2.10E-02	2.26E-02	9.47E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	1.99E-01	1.29E-01	1.36E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	4.80E-01	3.68E-01	3.96E-01	5.02E-01	8.79E+00
4.0E-01	1.20E-02	4.25E-02	2.10E-02	2.26E-02	9.44E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	1.96E-01	1.29E-01	1.36E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	4.36E-01	3.63E-01	3.89E-01	1.97E-01	8.04E+00
5.0E-01	1.20E-02	4.25E-02	2.10E-02	2.26E-02	9.40E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	1.92E-01	1.29E-01	1.35E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	3.85E-01	3.54E-01	3.76E-01	8.43E-02	7.64E+00
6.0E-01	1.20E-02	4.25E-02	2.10E-02	2.26E-02	9.36E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	1.88E-01	1.29E-01	1.35E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	3.32E-01	3.39E-01	3.57E-01	5.84E-02	7.36E+00
7.0E-01	1.20E-02	4.24E-02	2.10E-02	2.26E-02	9.30E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	1.83E-01	1.29E-01	1.35E-01	1.07E-01	1.08E-01	1.16E-01	1.21E-01	2.79E-01	3.20E-01	3.32E-01	5.64E-02	7.10E+00
8.0E-01	1.20E-02	4.24E-02	2.10E-02	2.26E-02	9.24E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	1.77E-01	1.28E-01	1.35E-01	1.07E-01	1.08E-01	1.16E-01	1.20E-01	2.29E-01	2.96E-01	3.02E-01	5.48E-02	6.81E+00
1.0E+00	1.20E-02	4.23E-02	2.10E-02	2.26E-02	9.10E-02	5.61E-02	5.89E-02	3.86E-02	3.91E-02	1.64E-01	1.28E-01	1.34E-01	1.07E-01	1.08E-01	1.15E-01	1.19E-01	1.46E-01	2.40E-01	2.34E-01	4.10E-02	6.19E+00
1.2E+00	1.20E-02	4.21E-02	2.10E-02	2.26E-02	8.93E-02	5.60E-02	5.88E-02	3.86E-02	3.91E-02	1.49E-01	1.26E-01	1.32E-01	1.06E-01	1.08E-01	1.14E-01	1.18E-01	8.93E-02	1.81E-01	1.68E-01	2.40E-02	5.60E+00
1.4E+00	1.20E-02	4.20E-02	2.10E-02	2.26E-02	8.73E-02	5.60E-02	5.88E-02	3.86E-02	3.91E-02	1.34E-01	1.24E-01	1.29E-01	1.06E-01	1.07E-01	1.12E-01	1.15E-01	5.64E-02	1.27E-01	1.12E-01	1.23E-02	5.10E+00
1.6E+00	1.20E-02	4.18E-02	2.10E-02	2.26E-02	8.50E-02	5.59E-02	5.87E-02	3.86E-02	3.91E-02	1.18E-01	1.20E-01	1.25E-01	1.05E-01	1.07E-01	1.09E-01	1.11E-01	4.07E-02	8.45E-02	7.04E-02	6.05E-03	4.71E+00
1.8E+00	1.19E-02	4.16E-02	2.10E-02	2.26E-02	8.25E-02	5.58E-02	5.86E-02	3.86E-02	3.91E-02	1.03E-01	1.16E-01	1.20E-01	1.04E-01	1.05E-01	1.06E-01	1.07E-01	3.51E-02	5.40E-02	4.30E-02	3.39E-03	4.41E+00
2.0E+00	1.19E-02	4.13E-02	2.10E-02	2.26E-02	7.99E-02	5.57E-02	5.84E-02	3.86E-02	3.91E-02	8.85E-02	1.11E-01	1.13E-01	1.02E-01	1.03E-01	1.01E-01	1.02E-01	3.40E-02	3.42E-02	2.67E-02	2.51E-03	4.18E+00
2.4E+00	1.19E-02	4.08E-02	2.10E-02	2.26E-02	7.40E-02	5.53E-02	5.79E-02	3.85E-02	3.91E-02	6.32E-02	9.84E-02	9.88E-02	9.68E-02	9.78E-02	9.20E-02	9.18E-02	3.31E-02	1.63E-02	1.40E-02	2.32E-03	3.80E+00
3.0E+00	1.19E-02	3.98E-02	2.10E-02	2.26E-02	6.44E-02	5.43E-02	5.67E-02	3.85E-02	3.91E-02	3.70E-02	7.59E-02	7.35E-02	8.47E-02	8.50E-02	7.66E-02	7.54E-02	2.45E-02	1.23E-02	1.22E-02	1.89E-03	3.27E+00
4.0E+00	1.18E-02	3.78E-02	2.09E-02	2.25E-02	4.81E-02	5.13E-02	5.30E-02	3.82E-02	3.88E-02	2.02E-02	4.04E-02	3.65E-02	5.83E-02	5.76E-02	5.29E-02	5.13E-02	8.35E-03	1.03E-02	9.15E-03	6.64E-04	2.42E+00
5.0E+00	1.18E-02	3.54E-02	2.09E-02	2.24E-02	3.35E-02	4.66E-02	4.74E-02	3.76E-02	3.81E-02	1.85E-02	1.85E-02	1.60E-02	3.39E-02	3.29E-02	3.48E-02	3.34E-02	3.31E-03	5.31E-03	4.14E-03	2.27E-04	1.77E+00
6.0E+00	1.17E-02	3.27E-02	2.07E-02	2.23E-02	2.22E-02	4.04E-02	4.02E-02	3.63E-02	3.67E-02	1.75E-02	9.59E-03	9.00E-03	1.75E-02	1.66E-02	2.23E-02	2.13E-02	2.94E-03	2.17E-03	1.62E-03	1.87E-04	1.35E+00
7.0E+00	1.16E-02	2.97E-02	2.05E-02	2.20E-02	1.46E-02	3.34E-02	3.24E-02	3.44E-02	3.47E-02	1.39E-02	7.53E-03	7.85E-03	8.56E-03	8.05E-03	1.41E-02	1.34E-02	2.68E-03	1.09E-03	9.47E-04	1.74E-04	1.08E+00
8.0E+00	1.15E-02	2.67E-02	2.03E-02	2.17E-02	1.02E-02	2.65E-02	2.49E-02	3.19E-02	3.21E-02	9.43E-03	7.41E-03	7.77E-03	4.60E-03	4.37E-03	8.92E-03	8.42E-03	1.99E-03	9.02E-04	7.83E-04	1.31E-04	8.94E-01
1.0E+01	1.10E-02	2.10E-02	1.90E-02	2.10E-02	7.20E-03	1.50E-02	1.30E-02	2.60E-02	2.60E-02	3.40E-03	6.20E-03	5.90E-03	2.90E-03	2.90E-03	3.60E-03	3.30E-03	7.20E-04	8.30E-04	7.50E-04	4.80E-05	6.50E-01
1.5E+01	1.00E-02	9.10E-03	1.60E-02	1.60E-02	6.10E-03	2.90E-03	2.70E-03	1.10E-02	1.10E-02	1.60E-03	1.20E-03	9.70E-04	2.20E-03	2.10E-03	4.00E-04	3.70E-04	2.50E-04	1.80E-04	1.30E-04	1.60E-05	3.10E-01
2.0E+01	9.40E-03	3.40E-03	1.20E-02	1.10E-02	2.80E-03	2.00E-03	2.20E-03	4.10E-03	3.80E-03	9.00E-04	4.10E-04	4.50E-04	9.40E-04	8.80E-04	5.70E-05	5.20E-05	1.40E-04	5.10E-05	5.10E-05	9.20E-06	1.70E-01
3.0E+01	7.10E-03	1.10E-03	5.00E-03	4.30E-03	3.20E-04	1.40E-03	1.30E-03	5.20E-04	4.60E-04	8.90E-05	3.10E-04	3.00E-04	1.20E-04	1.10E-04	2.20E-06	2.00E-06	1.40E-05	3.90E-05	3.40E-05	8.90E-07	6.00E-02
4.0E+01	5.10E-03	1.00E-03	1.90E-03	1.50E-03	2.20E-04	5.70E-04	4.60E-04	8.10E-05	7.00E-05	5.00E-05	1.30E-04	1.10E-04	2.00E-05	1.60E-05	1.70E-07	1.40E-07	7.50E-06	1.70E-05	1.30E-05	4.70E-07	2.70E-02
6.0E+01	2.30E-03	5.50E-04	3.20E-04	2.00E-04	1.30E-04	9.00E-05	5.90E-05	4.10E-06	3.10E-06	3.10E-05	2.10E-05	1.40E-05	9.50E-07	7.20E-07	3.00E-09	2.30E-09	4.70E-06	2.60E-06	1.60E-06	3.00E-07	8.10E-03
1.0E+02	5.10E-04	1.00E-04	2.10E-05	8.90E-06	2.40E-05	5.50E-06	2.40E-06	6.60E-08	4.00E-08	5.60E-06	1.30E-06	5.50E-07	1.50E-08	9.00E-09	1.60E-11	1.00E-11	8.40E-07	1.60E-07	6.40E-08	5.30E-08	1.40E-03
E[keV]:	5.20E+01	8.71E+00	8.25E+00	7.51E+00	1.97E+00	1.77E+00	1.61E+00	1.28E+00	1.24E+00	4.00E-01	3.22E-01	2.84E-01	1.52E-01	1.48E-01	0.00E+00	0.00E+00	4.20E-02	2.80E-02	2.80E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(3)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	2.40E-02	1.09E-01	1.51E-01	2.42E-01	4.32E-01	5.44E-01	7.79E-01	9.34E-01	1.17E+00	1.57E+00	1.83E+00	2.38E+00	2.80E+00	3.45E+00	4.15E+00	4.51E+00	5.60E+00	6.34E+00	7.94E+00	1.20E+01	1.20E+01
5.0E-02	2.40E-02	1.09E-01	1.51E-01	2.42E-01	4.32E-01	5.44E-01	7.79E-01	9.34E-01	1.17E+00	1.57E+00	1.83E+00	2.38E+00	2.80E+00	3.45E+00	4.15E+00	4.51E+00	5.60E+00	6.34E+00	7.94E+00	1.18E+01	1.18E+01
1.0E-01	2.40E-02	1.09E-01	1.51E-01	2.42E-01	4.32E-01	5.44E-01	7.79E-01	9.34E-01	1.17E+00	1.57E+00	1.83E+00	2.38E+00	2.80E+00	3.45E+00	4.15E+00	4.51E+00	5.59E+00	6.33E+00	7.93E+00	1.14E+01	1.14E+01
1.5E-01	2.40E-02	1.09E-01	1.51E-01	2.42E-01	4.32E-01	5.44E-01	7.79E-01	9.34E-01	1.17E+00	1.57E+00	1.83E+00	2.37E+00	2.80E+00	3.45E+00	4.15E+00	4.51E+00	5.57E+00	6.31E+00	7.91E+00	1.07E+01	1.07E+01
2.0E-01	2.40E-02	1.09E-01	1.51E-01	2.42E-01	4.31E-01	5.44E-01	7.79E-01	9.34E-01	1.17E+00	1.57E+00	1.83E+00	2.37E+00	2.80E+00	3.45E+00	4.14E+00	4.51E+00	5.54E+00	6.28E+00	7.87E+00	1.00E+01	1.00E+01
3.0E-01	2.40E-02	1.09E-01	1.51E-01	2.42E-01	4.31E-01	5.43E-01	7.79E-01	9.33E-01	1.17E+00	1.57E+00	1.82E+00	2.37E+00	2.80E+00	3.44E+00	4.14E+00	4.50E+00	5.46E+00	6.20E+00	7.78E+00	8.79E+00	8.79E+00
4.0E-01	2.40E-02	1.09E-01	1.51E-01	2.41E-01	4.30E-01	5.42E-01	7.78E-01	9.32E-01	1.17E+00	1.56E+00	1.82E+00	2.36E+00	2.79E+00	3.44E+00	4.13E+00	4.50E+00	5.37E+00	6.09E+00	7.65E+00	8.04E+00	8.04E+00
5.0E-01	2.40E-02	1.09E-01	1.51E-01	2.41E-01	4.29E-01	5.42E-01	7.77E-01	9.32E-01	1.17E+00	1.55E+00	1.81E+00	2.35E+00	2.78E+00	3.42E+00	4.12E+00	4.48E+00	5.25E+00	5.96E+00	7.47E+00	7.63E+00	7.64E+00
6.0E-01	2.40E-02	1.09E-01	1.51E-01	2.41E-01	4.25E-01	5.41E-01	7.76E-01	9.31E-01	1.17E+00	1.54E+00	1.80E+00	2.34E+00	2.77E+00	3.42E+00	4.11E+00	4.47E+00	5.14E+00	5.82E+00	7.24E+00	7.36E+00	7.36E+00
7.0E-01	2.40E-02	1.09E-01	1.51E-01	2.41E-01	4.27E-01	5.39E-01	7.75E-01	9.29E-01	1.16E+00	1.53E+00	1.79E+00	2.33E+00	2.76E+00	3.40E+00	4.10E+00	4.46E+00	5.02E+00	5.66E+00	6.99E+00	7.10E+00	7.10E+00
8.0E-01	2.40E-02	1.09E-01	1.51E-01	2.41E-01	4.26E-01	5.38E-01	7.74E-01	9.28E-01	1.16E+00	1.52E+00	1.77E+00	2.31E+00	2.74E+00	3.39E+00	4.08E+00	4.44E+00	4.90E+00	5.49E+00	6.70E+00	6.81E+00	6.81E+00
1.0E+00	2.40E-02	1.09E-01	1.51E-01	2.41E-01	4.23E-01	5.35E-01	7.71E-01	9.25E-01	1.16E+00	1.49E+00	1.74E+00	2.28E+00	2.71E+00	3.36E+00	4.05E+00	4.40E+00	4.69E+00	5.17E+00	6.11E+00	6.19E+00	6.19E+00
1.2E+00	2.40E-02	1.08E-01	1.50E-01	2.41E-01	4.19E-01	5.31E-01	7.66E-01	9.21E-01	1.16E+00	1.45E+00	1.71E+00	2.23E+00	2.66E+00	3.31E+00	3.99E+00	4.34E+00	4.52E+00	4.88E+00	5.56E+00	5.60E+00	5.60E+00
1.4E+00	2.40E-02	1.08E-01	1.50E-01	2.40E-01	4.15E-01	5.27E-01	7.62E-01	9.17E-01	1.15E+00	1.42E+00	1.67E+00	2.18E+00	2.61E+00	3.25E+00	3.92E+00	4.27E+00	4.38E+00	4.63E+00	5.08E+00	5.11E+00	5.10E+00
1.6E+00	2.40E-02	1.08E-01	1.50E-01	2.40E-01	4.10E-01	5.22E-01	7.57E-01	9.11E-01	1.15E+00	1.38E+00	1.62E+00	2.12E+00	2.54E+00	3.18E+00	3.84E+00	4.17E+00	4.25E+00	4.42E+00	4.70E+00	4.71E+00	4.71E+00
1.8E+00	2.38E-02	1.07E-01	1.49E-01	2.39E-01	4.04E-01	5.16E-01	7.50E-01	9.05E-01	1.14E+00	1.35E+00	1.58E+00	2.06E+00	2.47E+00	3.10E+00	3.74E+00	4.06E+00	4.13E+00	4.24E+00	4.41E+00	4.42E+00	4.41E+00
2.0E+00	2.38E-02	1.06E-01	1.48E-01	2.39E-01	3.99E-01	5.10E-01	7.44E-01	8.98E-01	1.13E+00	1.31E+00	1.53E+00	1.98E+00	2.39E+00	3.01E+00	3.62E+00	3.92E+00	3.99E+00	4.06E+00	4.16E+00	4.17E+00	4.18E+00
2.4E+00	2.38E-02	1.05E-01	1.47E-01	2.38E-01	3.86E-01	4.96E-01	7.28E-01	8.82E-01	1.12E+00	1.24E+00	1.44E+00	1.84E+00	2.22E+00	2.81E+00	3.36E+00	3.64E+00	3.70E+00	3.74E+00	3.79E+00	3.80E+00	3.80E+00
3.0E+00	2.38E-02	1.03E-01	1.45E-01	2.36E-01	3.65E-01	4.73E-01	7.00E-01	8.54E-01	1.09E+00	1.16E+00	1.31E+00	1.61E+00	1.95E+00	2.46E+00	2.92E+00	3.14E+00	3.19E+00	3.22E+00	3.27E+00	3.27E+00	3.27E+00
3.4E+00	2.36E-02	9.92E-02	1.41E-01	2.34E-01	3.27E-01	4.30E-01	6.42E-01	7.95E-01	1.03E+00	1.07E+00	1.15E+00	1.29E+00	1.53E+00	1.87E+00	2.19E+00	2.34E+00	2.36E+00	2.38E+00	2.42E+00	2.42E+00	2.42E+00
5.0E+00	2.36E-02	9.44E-02	1.36E-01	2.26E-01	2.93E-01	3.86E-01	5.66E-01	7.56E-01	9.55E-01	9.92E-01	1.03E+00	1.09E+00	1.23E+00	1.43E+00	1.63E+00	1.73E+00	1.74E+00	1.75E+00	1.77E+00	1.77E+00	1.77E+00
6.0E+00	2.34E-02	8.88E-02	1.30E-01	2.19E-01	2.64E-01	3.45E-01	5.05E-01	6.51E-01	8.71E-01	9.06E-01	9.25E-01	9.61E-01	1.03E+00	1.13E+00	1.26E+00	1.33E+00	1.33E+00	1.34E+00	1.34E+00	1.35E+00	1.35E+00
7.0E+00	2.32E-02	8.26E-02	1.24E-01	2.12E-01	2.41E-01	3.08E-01	4.37E-01	5.75E-01	7.83E-01	8.11E-01	8.26E-01	8.57E-01	8.91E-01	9.40E-01	1.02E+00	1.06E+00	1.07E+00	1.07E+00	1.08E+00	1.08E+00	1.08E+00
8.0E+00	2.30E-02	7.64E-02	1.17E-01	2.04E-01	2.24E-01	2.77E-01	3.77E-01	5.04E-01	6.97E-01	7.16E-01	7.31E-01	7.62E-01	7.80E-01	8.06E-01	8.60E-01	8.85E-01	8.89E-01	8.91E-01	8.94E-01	8.94E-01	8.94E-01
1.0E+01	2.20E-02	6.40E-02	1.02E-01	1.86E-01	2.00E-01	2.30E-01	2.82E-01	3.86E-01	5.42E-01	5.49E-01	5.62E-01	5.85E-01	5.97E-01	6.14E-01	6.36E-01	6.46E-01	6.47E-01	6.49E-01	6.52E-01	6.52E-01	6.50E-01
1.5E+01	2.00E-02	3.82E-02	7.02E-02	1.34E-01	1.46E-01	1.52E-01	1.63E-01	2.07E-01	2.73E-01	2.76E-01	2.79E-01	2.82E-01	2.91E-01	3.04E-01	3.06E-01	3.07E-01	3.08E-01	3.08E-01	3.09E-01	3.09E-01	3.10E-01
2.0E+01	1.88E-02	2.56E-02	4.96E-02	9.36E-02	9.92E-02	1.03E-01	1.12E-01	1.28E-01	1.51E-01	1.53E-01	1.54E-01	1.56E-01	1.59E-01	1.65E-01	1.65E-01	1.65E-01	1.65E-01	1.66E-01	1.66E-01	1.66E-01	1.70E-01
3.0E+01	1.42E-02	1.64E-02	2.64E-02	4.36E-02	4.42E-02	4.70E-02	5.22E-02	5.43E-02	5.71E-02	5.73E-02	5.79E-02	5.91E-02	5.96E-02	6.02E-02	6.02E-02	6.02E-02	6.03E-02	6.03E-02	6.05E-02	6.05E-02	6.00E-02
4.0E+01	1.02E-02	1.22E-02	1.60E-02	2.20E-02	2.24E-02	2.36E-02	2.54E-02	2.57E-02	2.62E-02	2.63E-02	2.65E-02	2.70E-02	2.70E-02	2.71E-02	2.71E-02	2.71E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.70E-02
6.0E+01	4.60E-03	5.70E-03	6.34E-03	7.14E-03	7.40E-03	7.58E-03	7.82E-03	7.83E-03	7.85E-03	7.91E-03	7.95E-03	8.01E-03	8.01E-03	8.02E-03	8.02E-03	8.02E-03	8.03E-03	8.03E-03	8.04E-03	8.04E-03	8.10E-03
1.0E+02	1.02E-03	1.22E-03	1.26E-03	1.30E-03	1.35E-03	1.36E-03	1.37E-03	1.37E-03	1.37E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.39E-03	1.39E-03	1.40E-03
E[keV]:	5.20E+01	8.71E+00	8.25E+00	7.51E+00	1.97E+00	1.77E+00	1.61E+00	1.28E+00	1.24E+00	4.00E-01	3.22E-01	2.84E-01	1.52E-01	1.48E-01	0.00E+00	0.00E+00	4.20E-02	2.80E-02	2.80E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	5.12E+00	7.46E+00	8.55E+00	9.19E+00	9.62E+00	1.02E+01	1.04E+01	1.08E+01	1.11E+01	1.12E+01	1.15E+01	1.16E+01	1.18E+01	1.18E+01	1.19E+01	1.20E+01	1.20E+01	1.20E+01			
5.0E-02	4.94E+00	7.28E+00	8.36E+00	9.01E+00	9.44E+00	9.98E+00	1.02E+01	1.06E+01	1.09E+01	1.10E+01	1.13E+01	1.14E+01	1.16E+01	1.17E+01	1.17E+01	1.18E+01	1.18E+01	1.18E+01			
1.0E-01	4.50E+00	6.84E+00	7.91E+00	8.56E+00	8.99E+00	9.53E+00	9.79E+00	1.02E+01	1.04E+01	1.06E+01	1.06E+01	1.09E+01	1.11E+01	1.12E+01	1.13E+01	1.13E+01	1.14E+01	1.14E+01			
1.5E-01	3.88E+00	6.22E+00	7.28E+00	7.92E+00	8.35E+00	8.90E+00	9.15E+00	9.56E+00	9.79E+00	9.95E+00	1.02E+01	1.03E+01	1.05E+01	1.06E+01	1.06E+01	1.07E+01	1.07E+01	1.07E+01			
2.0E-01	3.20E+00	5.54E+00	6.57E+00	7.21E+00	7.64E+00	8.18E+00	8.44E+00	8.85E+00	9.08E+00	9.23E+00	9.47E+00	9.58E+00	9.77E+00	9.86E+00	9.90E+00	9.99E+00	1.00E+01	1.00E+01			
3.0E-01	2.06E+00	4.38E+00	5.34E+00	5.99E+00	6.42E+00	6.96E+00	7.22E+00	7.62E+00	7.85E+00	8.01E+00	8.24E+00	8.36E+00	8.55E+00	8.64E+00	8.68E+00	8.76E+00	8.79E+00	8.79E+00			
4.0E-01	1.45E+00	3.74E+00	4.61E+00	5.26E+00	5.68E+00	6.23E+00	6.49E+00	6.86E+00	7.11E+00	7.27E+00	7.50E+00	7.61E+00	7.80E+00	7.89E+00	7.94E+00	8.02E+00	8.04E+00	8.04E+00			
5.0E-01	1.23E+00	3.44E+00	4.21E+00	4.86E+00	5.29E+00	5.83E+00	6.08E+00	6.47E+00	6.70E+00	6.86E+00	7.09E+00	7.20E+00	7.39E+00	7.48E+00	7.52E+00	7.61E+00	7.63E+00	7.64E+00			
6.0E-01	1.18E+00	3.28E+00	3.95E+00	4.59E+00	5.02E+00	5.56E+00	5.82E+00	6.20E+00	6.43E+00	6.58E+00	6.82E+00	6.93E+00	7.12E+00	7.21E+00	7.25E+00	7.34E+00	7.36E+00	7.36E+00			
7.0E-01	1.17E+00	3.14E+00	3.70E+00	4.35E+00	4.77E+00	5.31E+00	5.57E+00	5.94E+00	6.17E+00	6.33E+00	6.56E+00	6.67E+00	6.86E+00	6.95E+00	6.99E+00	7.08E+00	7.10E+00	7.10E+00			
8.0E-01	1.17E+00	2.97E+00	3.42E+00	4.07E+00	4.50E+00	5.04E+00	5.30E+00	5.65E+00	5.88E+00	6.04E+00	6.27E+00	6.39E+00	6.57E+00	6.66E+00	6.70E+00	6.79E+00	6.81E+00	6.81E+00			
1.0E+00	1.13E+00	2.55E+00	2.84E+00	3.49E+00	3.91E+00	4.45E+00	4.71E+00	5.03E+00	5.27E+00	5.42E+00	5.66E+00	5.77E+00	5.95E+00	6.04E+00	6.08E+00	6.17E+00	6.19E+00	6.19E+00			
1.2E+00	1.09E+00	2.12E+00	2.30E+00	2.95E+00	3.37E+00	3.90E+00	4.15E+00	4.45E+00	4.68E+00	4.84E+00	5.07E+00	5.18E+00	5.36E+00	5.45E+00	5.50E+00	5.58E+00	5.60E+00	5.60E+00			
1.4E+00	1.04E+00	1.74E+00	1.86E+00	2.50E+00	2.92E+00	3.44E+00	3.69E+00	3.95E+00	4.19E+00	4.34E+00	4.58E+00	4.69E+00	4.87E+00	4.96E+00	5.00E+00	5.08E+00	5.11E+00	5.10E+00			
1.6E+00	9.99E-01	1.45E+00	1.53E+00	2.17E+00	2.59E+00	3.09E+00	3.33E+00	3.57E+00	3.80E+00	3.96E+00	4.19E+00	4.30E+00	4.47E+00	4.57E+00	4.61E+00	4.69E+00	4.71E+00	4.71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65Tb
Σi Ji(Q)
Q

Z=66

Compton profiles for the single orbitals and binding energies

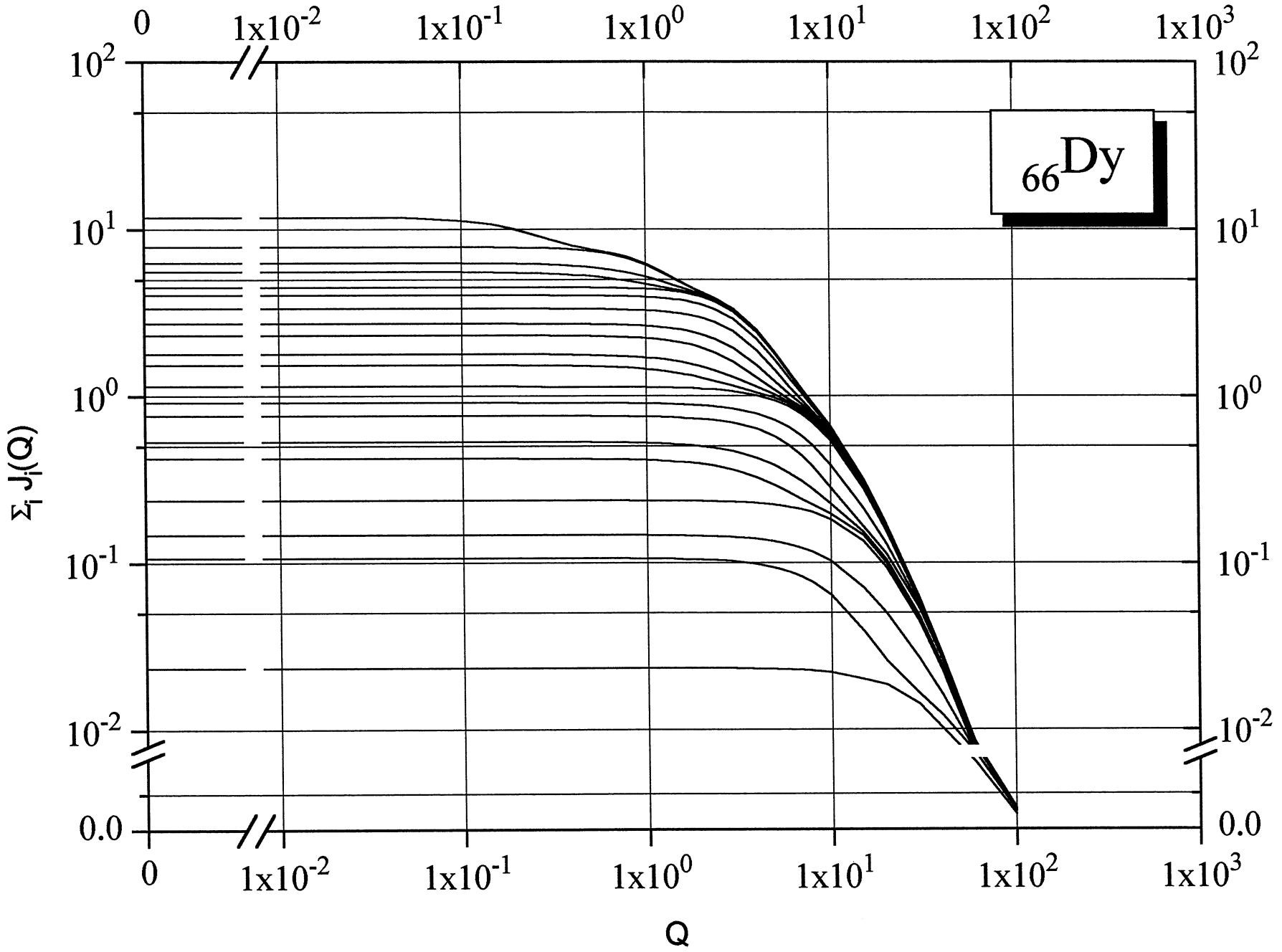
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(4)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	1.17E-02	4.18E-02	2.06E-02	2.22E-02	9.31E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.99E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	5.35E-01	3.64E-01	3.94E-01	2.01E+00	1.19E+01
5.0E-02	1.17E-02	4.18E-02	2.06E-02	2.22E-02	9.31E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.98E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	5.33E-01	3.64E-01	3.94E-01	1.93E+00	1.18E+01
1.0E-01	1.17E-02	4.18E-02	2.06E-02	2.22E-02	9.30E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.98E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	5.28E-01	3.64E-01	3.94E-01	1.71E+00	1.13E+01
1.5E-01	1.17E-02	4.18E-02	2.06E-02	2.22E-02	9.30E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.98E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	5.19E-01	3.64E-01	3.94E-01	1.40E+00	1.07E+01
2.0E-01	1.17E-02	4.18E-02	2.06E-02	2.22E-02	9.29E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.97E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	5.07E-01	3.64E-01	3.93E-01	1.07E+00	9.97E+00
3.0E-01	1.17E-02	4.17E-02	2.06E-02	2.22E-02	9.27E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.95E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	4.74E-01	3.62E-01	3.90E-01	5.11E-01	8.77E+00
4.0E-01	1.17E-02	4.17E-02	2.06E-02	2.22E-02	9.25E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.92E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	4.32E-01	3.57E-01	3.84E-01	2.03E-01	8.03E+00
5.0E-01	1.17E-02	4.17E-02	2.06E-02	2.22E-02	9.21E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.89E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	3.83E-01	3.49E-01	3.72E-01	8.59E-02	7.62E+00
6.0E-01	1.17E-02	4.17E-02	2.06E-02	2.22E-02	9.17E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.84E-01	1.26E-01	1.33E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	3.32E-01	3.35E-01	3.54E-01	5.74E-02	7.35E+00
7.0E-01	1.17E-02	4.16E-02	2.06E-02	2.22E-02	9.12E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.80E-01	1.26E-01	1.32E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	2.81E-01	3.17E-01	3.30E-01	5.47E-02	7.10E+00
8.0E-01	1.17E-02	4.16E-02	2.06E-02	2.22E-02	9.06E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.74E-01	1.26E-01	1.32E-01	1.04E-01	1.06E-01	1.13E-01	1.17E-01	2.32E-01	2.95E-01	3.01E-01	5.36E-02	6.83E+00
1.0E+00	1.17E-02	4.15E-02	2.06E-02	2.22E-02	8.93E-02	5.49E-02	5.77E-02	3.78E-02	3.84E-02	1.62E-01	1.25E-01	1.31E-01	1.04E-01	1.06E-01	1.12E-01	1.16E-01	1.50E-01	2.41E-01	2.36E-01	4.10E-02	6.23E+00
1.2E+00	1.17E-02	4.13E-02	2.06E-02	2.22E-02	8.76E-02	5.48E-02	5.77E-02	3.78E-02	3.84E-02	1.48E-01	1.23E-01	1.29E-01	1.04E-01	1.06E-01	1.11E-01	1.14E-01	9.25E-02	1.83E-01	1.71E-01	2.46E-02	5.65E+00
1.4E+00	1.17E-02	4.12E-02	2.06E-02	2.22E-02	8.57E-02	5.48E-02	5.76E-02	3.78E-02	3.84E-02	1.33E-01	1.21E-01	1.26E-01	1.03E-01	1.05E-01	1.09E-01	1.12E-01	5.93E-02	1.31E-01	1.15E-01	1.28E-02	5.16E+00
1.6E+00	1.17E-02	4.10E-02	2.06E-02	2.22E-02	8.36E-02	5.47E-02	5.75E-02	3.78E-02	3.84E-02	1.18E-01	1.18E-01	1.23E-01	1.03E-01	1.04E-01	1.07E-01	1.09E-01	4.12E-02	8.82E-02	7.37E-02	6.40E-03	4.77E+00
1.8E+00	1.17E-02	4.08E-02	2.06E-02	2.22E-02	8.13E-02	5.46E-02	5.74E-02	3.78E-02	3.84E-02	1.04E-01	1.14E-01	1.18E-01	1.02E-01	1.03E-01	1.03E-01	1.05E-01	3.47E-02	5.71E-02	4.55E-02	3.51E-03	4.46E+00
2.0E+00	1.17E-02	4.06E-02	2.06E-02	2.22E-02	7.88E-02	5.45E-02	5.73E-02	3.78E-02	3.83E-02	8.94E-02	1.10E-01	1.12E-01	1.00E-01	1.02E-01	9.96E-02	1.01E-01	3.32E-02	3.64E-02	2.83E-02	2.48E-03	4.23E+00
2.4E+00	1.17E-02	4.01E-02	2.06E-02	2.22E-02	7.32E-02	5.42E-02	5.68E-02	3.77E-02	3.83E-02	6.47E-02	9.80E-02	9.86E-02	9.54E-02	9.65E-02	9.09E-02	9.09E-02	3.26E-02	1.69E-02	1.42E-02	2.22E-03	3.85E+00
3.0E+00	1.17E-02	3.92E-02	2.06E-02	2.22E-02	6.41E-02	5.33E-02	5.57E-02	3.77E-02	3.83E-02	3.83E-02	7.67E-02	7.45E-02	8.43E-02	8.47E-02	7.65E-02	7.56E-02	2.50E-02	1.19E-02	1.19E-02	1.88E-03	3.33E+00
4.0E+00	1.16E-02	3.73E-02	2.05E-02	2.22E-02	4.83E-02	5.06E-02	5.23E-02	3.75E-02	3.80E-02	2.03E-02	4.21E-02	3.81E-02	5.94E-02	5.86E-02	5.38E-02	5.24E-02	8.99E-03	1.03E-02	9.28E-03	7.03E-04	2.49E+00
5.0E+00	1.16E-02	3.50E-02	2.05E-02	2.21E-02	3.41E-02	4.61E-02	4.70E-02	3.69E-02	3.74E-02	1.81E-02	1.97E-02	1.70E-02	3.55E-02	3.44E-02	3.60E-02	3.48E-02	3.40E-03	5.61E-03	4.41E-03	2.32E-04	1.83E+00
6.0E+00	1.15E-02	3.24E-02	2.03E-02	2.19E-02	2.29E-02	4.03E-02	4.03E-02	3.57E-02	3.62E-02	1.74E-02	1.00E-02	9.23E-03	1.88E-02	1.79E-02	2.35E-02	2.25E-02	2.86E-03	2.36E-03	1.74E-03	1.79E-04	1.39E+00
7.0E+00	1.14E-02	2.96E-02	2.02E-02	2.17E-02	1.51E-02	3.37E-02	3.28E-02	3.40E-02	3.43E-02	1.43E-02	7.49E-03	7.74E-03	9.37E-03	8.79E-03	1.51E-02	1.44E-02	2.69E-03	1.13E-03	9.56E-04	1.70E-04	1.10E+00
8.0E+00	1.13E-02	2.67E-02	1.99E-02	2.13E-02	1.05E-02	2.70E-02	2.55E-02	3.17E-02	3.19E-02	9.96E-03	7.28E-03	7.67E-03	4.96E-03	4.69E-03	9.66E-03	9.16E-03	2.06E-03	8.82E-04	8.59E-04	1.33E-04	9.13E-01
1.0E+01	1.10E-02	2.10E-02	1.90E-02	2.00E-02	7.20E-03	1.50E-02	1.40E-02	2.60E-02	2.60E-02	3.70E-03	6.30E-03	6.10E-03	2.90E-03	2.90E-03	3.90E-03	3.70E-03	7.90E-04	8.20E-04	7.50E-04	5.10E-05	6.60E-01
1.5E+01	1.00E-02	9.40E-03	1.60E-02	1.60E-02	6.20E-03	3.10E-03	2.80E-03	1.20E-02	1.10E-02	1.60E-03	1.40E-03	1.10E-03	2.30E-03	2.20E-03	4.60E-04	4.30E-04	2.40E-04	2.00E-04	1.40E-04	1.50E-05	3.22E-01
2.0E+01	9.30E-03	3.60E-03	1.20E-02	1.10E-02	3.00E-03	2.00E-03	2.20E-03	4.30E-03	4.10E-03	9.60E-04	4.10E-04	4.50E-04	1.00E-03	9.40E-04	6.70E-05	6.10E-05	1.50E-04	5.10E-05	5.10E-05	9.50E-06	1.70E-01
3.0E+01	7.10E-03	1.10E-03	5.20E-03	4.50E-03	3.40E-04	1.40E-03	1.30E-03	5.70E-04	5.10E-04	9.90E-05	3.20E-04	3.10E-04	1.40E-04	1.20E-04	2.70E-06	2.40E-06	1.50E-05	3.90E-05	3.50E-05	9.60E-07	6.20E-02
4.0E+01	5.10E-03	1.00E-03	2.00E-03	1.60E-03	2.20E-04	6.00E-04	4.90E-04	9.20E-05	7.80E-05	5.00E-05	1.40E-04	1.20E-04	2.20E-05	1.90E-05	2.00E-07	1.70E-07	7.40E-06	1.80E-05	1.30E-05	4.60E-07	2.80E-02
6.0E+01	2.40E-03	5.70E-04	3.50E-04	2.20E-04	1.40E-04	9.90E-05	6.40E-05	4.70E-06	3.60E-06	3.20E-05	2.30E-05	1.50E-05	1.10E-06	8.30E-07	3.80E-09	3.00E-09	4.90E-06	2.90E-06	1.70E-06	3.00E-07	8.50E-03
1.0E+02	5.40E-04	1.10E-04	2.40E-05	9.80E-06	2.60E-05	6.20E-06	2.70E-06	7.70E-08	4.60E-08	6.00E-06	1.40E-06	6.20E-07	1.80E-08	1.10E-08	2.00E-11	1.30E-11	9.00E-07	1.80E-07	7.10E-08	5.60E-08	1.50E-03
E[keV]:	5.38E+01	9.05E+00	8.58E+00	7.79E+00	2.05E+00	1.84E+00	1.68E+00	1.33E+00	1.30E+00	4.19E-01	3.39E-01	2.97E-01	1.58E-01	1.55E-01	0.00E+00	0.00E+00	6.60E-02	2.90E-02	2.90E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(4)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.23E-01	5.33E-01	7.64E-01	9.15E-01	1.15E+00	1.54E+00	1.80E+00	2.33E+00	2.74E+00	3.38E+00	4.06E+00	4.53E+00	5.60E+00	6.32E+00	7.90E+00	1.19E+01	1.19E+01
5.0E-02	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.23E-01	5.33E-01	7.64E-01	9.15E-01	1.15E+00	1.54E+00	1.79E+00	2.33E+00	2.74E+00	3.38E+00	4.06E+00	4.52E+00	5.59E+00	6.32E+00	7.89E+00	1.18E+01	1.18E+01
1.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.23E-01	5.33E-01	7.64E-01	9.15E-01	1.15E+00	1.54E+00	1.79E+00	2.33E+00	2.74E+00	3.38E+00	4.06E+00	4.52E+00	5.58E+00	6.31E+00	7.88E+00	1.13E+01	1.13E+01
1.5E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.23E-01	5.33E-01	7.64E-01	9.15E-01	1.15E+00	1.54E+00	1.79E+00	2.33E+00	2.74E+00	3.38E+00	4.06E+00	4.52E+00	5.56E+00	6.29E+00	7.87E+00	1.07E+01	1.07E+01
2.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.23E-01	5.33E-01	7.63E-01	9.15E-01	1.15E+00	1.54E+00	1.79E+00	2.32E+00	2.74E+00	3.38E+00	4.05E+00	4.52E+00	5.54E+00	6.26E+00	7.84E+00	9.98E+00	9.97E+00
3.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.22E-01	5.32E-01	7.63E-01	9.14E-01	1.14E+00	1.53E+00	1.79E+00	2.32E+00	2.73E+00	3.37E+00	4.05E+00	4.52E+00	5.46E+00	6.19E+00	7.75E+00	8.77E+00	8.77E+00
4.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.22E-01	5.32E-01	7.62E-01	9.14E-01	1.14E+00	1.53E+00	1.78E+00	2.31E+00	2.73E+00	3.36E+00	4.04E+00	4.51E+00	5.37E+00	6.09E+00	7.62E+00	8.03E+00	8.03E+00
5.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.21E-01	5.31E-01	7.62E-01	9.13E-01	1.14E+00	1.52E+00	1.77E+00	2.31E+00	2.72E+00	3.36E+00	4.04E+00	4.50E+00	5.27E+00	5.97E+00	7.46E+00	7.63E+00	7.62E+00
6.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.20E-01	5.30E-01	7.61E-01	9.12E-01	1.14E+00	1.51E+00	1.76E+00	2.29E+00	2.71E+00	3.35E+00	4.02E+00	4.49E+00	5.16E+00	5.83E+00	7.24E+00	7.36E+00	7.35E+00
7.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.19E-01	5.29E-01	7.60E-01	9.11E-01	1.14E+00	1.50E+00	1.75E+00	2.28E+00	2.70E+00	3.33E+00	4.01E+00	4.48E+00	5.04E+00	5.68E+00	7.00E+00	7.10E+00	7.10E+00
8.0E-01	2.34E-02	1.07E-01	1.48E-01	2.37E-01	4.18E-01	5.28E-01	7.58E-01	9.10E-01	1.14E+00	1.49E+00	1.74E+00	2.27E+00	2.68E+00	3.32E+00	4.00E+00	4.47E+00	4.93E+00	5.52E+00	6.72E+00	6.83E+00	6.83E+00
1.0E+00	2.34E-02	1.06E-01	1.47E-01	2.36E-01	4.15E-01	5.25E-01	7.57E-01	9.07E-01	1.14E+00	1.48E+00	1.71E+00	2.24E+00	2.65E+00	3.29E+00	3.96E+00	4.42E+00	4.72E+00	5.21E+00	6.15E+00	6.23E+00	6.23E+00
1.2E+00	2.34E-02	1.06E-01	1.47E-01	2.36E-01	4.11E-01	5.21E-01	7.52E-01	9.03E-01	1.13E+00	1.43E+00	1.68E+00	2.19E+00	2.61E+00	3.24E+00	3.91E+00	4.37E+00	4.55E+00	4.92E+00	5.60E+00	5.65E+00	5.65E+00
1.4E+00	2.34E-02	1.06E-01	1.47E-01	2.36E-01	4.07E-01	5.17E-01	7.47E-01	8.98E-01	1.13E+00	1.39E+00	1.64E+00	2.14E+00	2.55E+00	3.18E+00	3.84E+00	4.28E+00	4.40E+00	4.66E+00	5.12E+00	5.15E+00	5.16E+00
1.6E+00	2.34E-02	1.05E-01	1.47E-01	2.35E-01	4.03E-01	5.12E-01	7.42E-01	8.93E-01	1.12E+00	1.36E+00	1.60E+00	2.09E+00	2.50E+00	3.12E+00	3.77E+00	4.20E+00	4.28E+00	4.46E+00	4.76E+00	4.77E+00	4.77E+00
1.8E+00	2.34E-02	1.05E-01	1.46E-01	2.35E-01	3.98E-01	5.07E-01	7.36E-01	8.88E-01	1.12E+00	1.33E+00	1.55E+00	2.03E+00	2.43E+00	3.05E+00	3.67E+00	4.09E+00	4.16E+00	4.27E+00	4.46E+00	4.46E+00	4.46E+00
2.0E+00	2.34E-02	1.05E-01	1.46E-01	2.35E-01	3.92E-01	5.01E-01	7.30E-01	8.82E-01	1.11E+00	1.29E+00	1.51E+00	1.96E+00	2.36E+00	2.97E+00	3.57E+00	3.97E+00	4.04E+00	4.11E+00	4.22E+00	4.23E+00	4.23E+00
2.4E+00	2.34E-02	1.04E-01	1.45E-01	2.34E-01	3.80E-01	4.88E-01	7.16E-01	8.66E-01	1.10E+00	1.23E+00	1.42E+00	1.82E+00	2.20E+00	2.78E+00	3.32E+00	3.69E+00	3.75E+00	3.78E+00	3.84E+00	3.85E+00	3.85E+00
3.0E+00	2.34E-02	1.02E-01	1.43E-01	2.32E-01	3.60E-01	4.67E-01	6.89E-01	8.40E-01	1.07E+00	1.15E+00	1.30E+00	1.60E+00	1.94E+00	2.44E+00	2.90E+00	3.20E+00	3.25E+00	3.28E+00	3.33E+00	3.33E+00	3.33E+00
4.0E+00	2.32E-02	9.78E-02	1.39E-01	2.28E-01	3.24E-01	4.25E-01	6.35E-01	7.85E-01	1.01E+00	1.05E+00	1.14E+00	1.29E+00	1.53E+00	1.88E+00	2.20E+00	2.41E+00	2.43E+00	2.45E+00	2.49E+00	2.49E+00	2.49E+00
5.0E+00	2.32E-02	9.32E-02	1.34E-01	2.23E-01	2.91E-01	3.83E-01	5.71E-01	7.19E-01	9.43E-01	9.79E-01	1.02E+00	1.09E+00	1.23E+00	1.44E+00	1.65E+00	1.79E+00	1.80E+00	1.81E+00	1.83E+00	1.83E+00	1.83E+00
6.0E+00	2.30E-02	8.78E-02	1.28E-01	2.16E-01	2.62E-01	3.42E-01	5.04E-01	6.46E-01	8.64E-01	8.98E-01	9.18E-01	9.55E-01	1.03E+00	1.14E+00	1.28E+00	1.37E+00	1.37E+00	1.38E+00	1.39E+00	1.39E+00	1.39E+00
7.0E+00	2.28E-02	8.20E-02	1.22E-01	2.09E-01	2.39E-01	3.07E-01	4.38E-01	5.74E-01	7.80E-01	8.08E-01	8.23E-01	8.54E-01	9.92E-01	9.45E-01	1.04E+00	1.09E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
8.0E+00	2.26E-02	7.60E-02	1.16E-01	2.01E-01	2.22E-01	2.76E-01	3.78E-01	5.05E-01	6.96E-01	7.16E-01	7.31E-01	7.61E-01	7.81E-01	8.09E-01	8.67E-01	9.04E-01	9.08E-01	9.10E-01	9.13E-01	9.14E-01	9.13E-01
1.0E+01	2.20E-02	6.40E-02	1.02E-01	1.82E-01	1.96E-01	2.26E-01	2.82E-01	3.86E-01	5.42E-01	5.50E-01	5.62E-01	5.87E-01	5.98E-01	6.16E-01	6.39E-01	6.54E-01	6.56E-01	6.57E-01	6.60E-01	6.60E-01	6.60E-01
1.5E+01	2.00E-02	3.88E-02	7.08E-02	1.35E-01	1.47E-01	1.53E-01	1.65E-01	2.13E-01	2.79E-01	2.82E-01	2.85E-01	2.89E-01	2.98E-01	3.11E-01	3.14E-01	3.16E-01	3.16E-01	3.17E-01	3.17E-01	3.17E-01	3.20E-01
2.0E+01	1.86E-02	2.58E-02	4.98E-02	9.38E-02	9.98E-02	1.04E-01	1.13E-01	1.30E-01	1.54E-01	1.56E-01	1.57E-01	1.59E-01	1.63E-01	1.69E-01	1.69E-01	1.69E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01
3.0E+01	1.42E-02	1.64E-02	2.68E-02	4.48E-02	4.55E-02	4.83E-02	5.35E-02	5.58E-02	5.88E-02	5.90E-02	5.97E-02	6.09E-02	6.15E-02	6.22E-02	6.22E-02	6.22E-02	6.22E-02	6.23E-02	6.25E-02	6.25E-02	6.20E-02
4.0E+01	1.02E-02	1.22E-02	1.62E-02	2.26E-02	2.30E-02	2.42E-02	2.62E-02	2.66E-02	2.70E-02	2.71E-02	2.74E-02	2.79E-02	2.80E-02	2.81E-02	2.81E-02	2.81E-02	2.81E-02	2.82E-02	2.82E-02	2.82E-02	2.80E-02
6.0E+01	4.80E-03	5.94E-03	6.64E-03	7.52E-03	7.80E-03	8.00E-03	8.25E-03	8.27E-03	8.29E-03	8.36E-03	8.40E-03	8.46E-03	8.47E-03	8.47E-03	8.47E-03	8.47E-03	8.48E-03	8.49E-03	8.50E-03	8.50E-03	8.50E-03
1.0E+02	1.08E-03	1.30E-03	1.35E-03	1.39E-03	1.44E-03	1.45E-03	1.46E-03	1.46E-03	1.46E-03	1.47E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.50E-03
E[keV]:	5.38E+01	9.05E+00	8.58E+00	7.79E+00	2.05E+00	1.84E+00	1.68E+00	1.33E+00	1.30E+00	4.19E-01	3.39E-01	2.97E-01	1.58E-01	1.55E-01	0.00E+00	0.00E+00	6.60E-02	2.90E-02	2.90E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	5.17E+00	7.47E+00	8.54E+00	9.18E+00	9.59E+00	1.01E+01	1.04E+01	1.08E+01	1.10E+01	1.12E+01	1.14E+01	1.15E+01	1.17E+01	1.18E+01	1.18E+01	1.19E+01	1.19E+01	1.19E+01			
5.0E-02	5.01E+00	7.31E+00	8.38E+00	9.01E+00	9.43E+00	9.96E+00	1.02E+01	1.06E+01	1.08E+01	1.10E+01	1.12E+01	1.13E+01	1.15E+01	1.16E+01	1.16E+01	1.17E+01	1.18E+01	1.18E+01			
1.0E-01	4.57E+00	6.87E+00	7.93E+00	8.56E+00	8.98E+00	9.51E+00	9.76E+00	1.02E+01	1.04E+01	1.05E+01	1.08E+01	1.09E+01	1.11E+01	1.12E+01	1.12E+01	1.13E+01	1.13E+01	1.13E+01			
1.5E-01	3.95E+00	6.25E+00	7.29E+00	7.92E+00	8.34E+00	8.87E+00	9.12E+00	9.52E+00	9.75E+00	9.90E+00	1.01E+01	1.02E+01	1.04E+01	1.05E+01	1.06E+01	1.06E+01	1.07E+01	1.07E+01			
2.0E-01	3.29E+00	5.59E+00	6.60E+00	7.24E+00	7.65E+00	8.18E+00	8.44E+00	8.83E+00	9.06E+00	9.21E+00	9.44E+00	9.55E+00	9.74E+00	9.83E+00	9.87E+00	9.95E+00	9.98E+00	9.97E+00			
3.0E-01	2.17E+00	4.45E+00	5.40E+00	6.04E+00	6.45E+00	6.98E+00	7.24E+00	7.63E+00	7.86E+00	8.01E+00	8.24E+00	8.35E+00	8.53E+00	8.62E+00	8.66E+00	8.75E+00	8.77E+00	8.77E+00			
4.0E-01	1.55E+00	3.80E+00	4.67E+00	5.30E+00	5.72E+00	6.25E+00	6.50E+00	6.89E+00	7.12E+00	7.27E+00	7.50E+00	7.61E+00	7.79E+00	7.88E+00	7.92E+00	8.01E+00	8.03E+00	8.03E+00			
5.0E-01	1.32E+00	3.50E+00	4.27E+00	4.91E+00	5.32E+00	5.85E+00	6.11E+00	6.48E+00	6.71E+00	6.87E+00	7.10E+00	7.21E+00	7.39E+00	7.48E+00	7.52E+00	7.60E+00	7.63E+00	7.62E+00			
6.0E-01	1.26E+00	3.35E+00	4.01E+00	4.65E+00	5.06E+00	5.59E+00	5.85E+00	6.21E+00	6.45E+00	6.60E+00	6.83E+00	6.94E+00	7.12E+00	7.21E+00	7.25E+00	7.33E+00	7.36E+00	7.35E+00			
7.0E-01	1.26E+00	3.21E+00	3.79E+00	4.41E+00	4.82E+00	5.35E+00	5.60E+00	5.96E+00	6.19E+00	6.35E+00	6.58E+00	6.69E+00	6.87E+00	6.96E+00	7.00E+00	7.08E+00	7.10E+00	7.10E+00			
8.0E-01	1.25E+00	3.05E+00	3.51E+00	4.15E+00	4.56E+00	5.09E+00	5.34E+00	5.69E+00	5.92E+00	6.07E+00	6.30E+00	6.41E+00	6.59E+00	6.68E+00	6.72E+00	6.81E+00	6.83E+00	6.83E+00			
1.0E+00	1.22E+00	2.64E+00	2.94E+00	3.58E+00	4.00E+00	4.52E+00	4.77E+00	5.09E+00	5.32E+00	5.48E+00	5.71E+00	5.82E+00	5.99E+00	6.08E+00	6.12E+00	6.21E+00	6.23E+00	6.23E+00			
1.2E+00	1.17E+00	2.22E+00	2.41E+00	3.04E+00	3.46E+00	3.97E+00	4.22E+00	4.52E+00	4.75E+00	4.90E+00	5.13E+00	5.24E+00	5.41E+00	5.50E+00	5.54E+00	5.63E+00	5.65E+00	5.65E+00			
1.4E+00	1.13E+00	1.85E+00	1.97E+00	2.60E+00	3.01E+00	3.51E+00	3.75E+00	4.02E+00	4.25E+00	4.40E+00	4.63E+00	4.74E+00	4.91E+00	5.00E+00	5.04E+00	5.13E+00	5.15E+00	5.16E+00			
1.6E+00	1.09E+00	1.56E+00	1.64E+00	2.27E+00	2.68E+00	3.17E+00	3.41E+00	3.64E+00	3.87E+00	4.03E+00	4.26E+00	4.37E+00	4.53E+00	4.62E+00	4.66E+00	4.74E+00	4.77E+00	4.77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10-2
0.0
66Dy
Σi Ji(Q)
Q

Z=67

Compton profiles for the single orbitals and binding energies

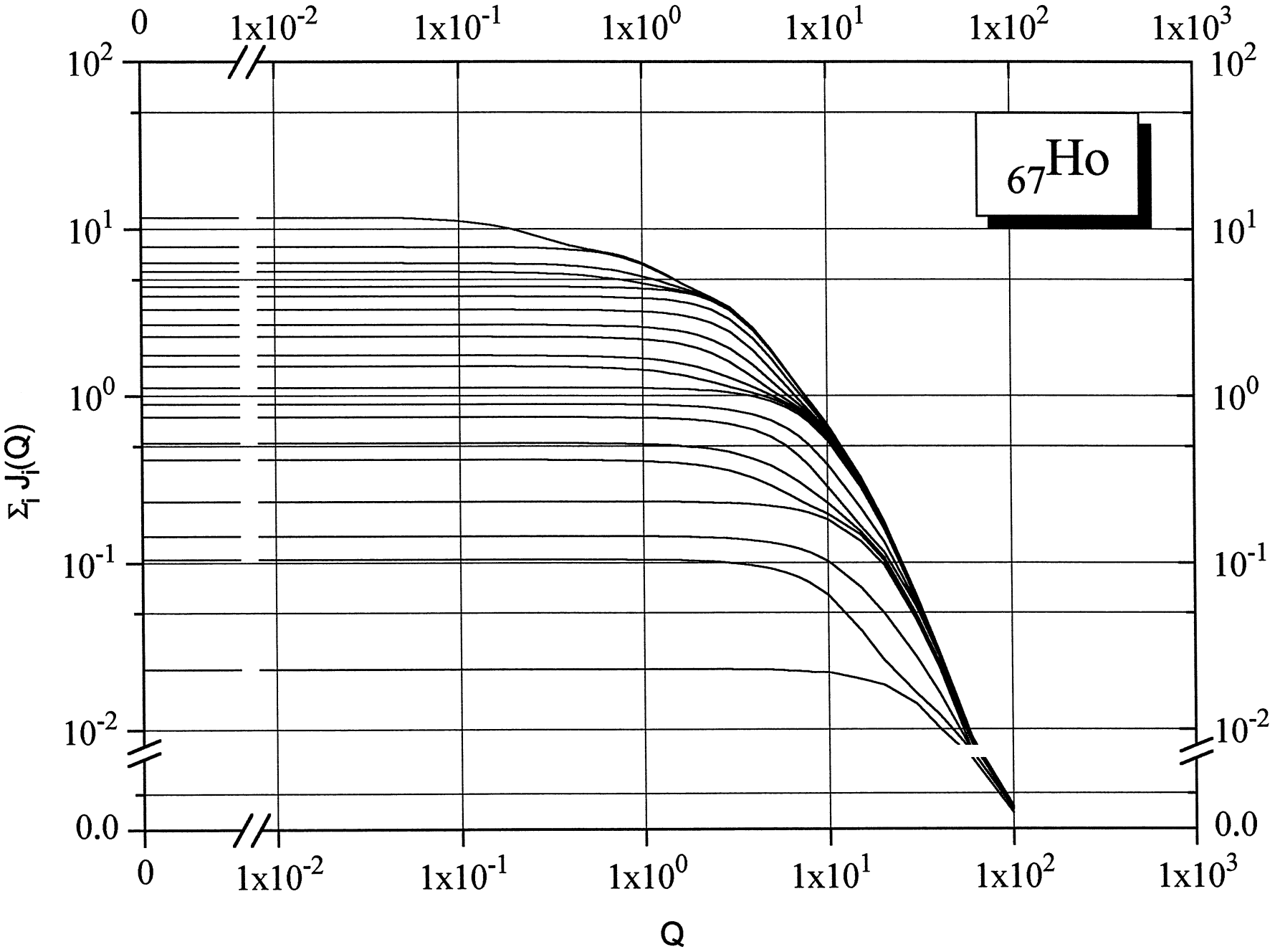
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(5)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	1.15E-02	4.10E-02	2.02E-02	2.19E-02	9.12E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.94E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	5.26E-01	3.58E-01	3.88E-01	1.99E+00	1.18E+01
5.0E-02	1.15E-02	4.10E-02	2.02E-02	2.19E-02	9.12E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.94E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	5.24E-01	3.58E-01	3.88E-01	1.91E+00	1.17E+01
1.0E-01	1.15E-02	4.10E-02	2.02E-02	2.19E-02	9.11E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.94E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	5.19E-01	3.58E-01	3.88E-01	1.70E+00	1.12E+01
1.5E-01	1.15E-02	4.10E-02	2.02E-02	2.19E-02	9.11E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.94E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	5.11E-01	3.58E-01	3.88E-01	1.40E+00	1.06E+01
2.0E-01	1.15E-02	4.10E-02	2.02E-02	2.19E-02	9.10E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.93E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	4.99E-01	3.58E-01	3.88E-01	1.07E+00	9.94E+00
3.0E-01	1.15E-02	4.10E-02	2.02E-02	2.19E-02	9.08E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.91E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	4.68E-01	3.56E-01	3.85E-01	5.20E-01	8.75E+00
4.0E-01	1.15E-02	4.09E-02	2.02E-02	2.19E-02	9.06E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.88E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	4.28E-01	3.52E-01	3.79E-01	2.09E-01	8.01E+00
5.0E-01	1.15E-02	4.09E-02	2.02E-02	2.19E-02	9.03E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.85E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.14E-01	3.81E-01	3.44E-01	3.67E-01	8.77E-02	7.61E+00
6.0E-01	1.15E-02	4.09E-02	2.02E-02	2.19E-02	8.99E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.81E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.13E-01	3.32E-01	3.31E-01	3.50E-01	5.66E-02	7.34E+00
7.0E-01	1.15E-02	4.08E-02	2.02E-02	2.19E-02	8.94E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.76E-01	1.23E-01	1.30E-01	1.02E-01	1.04E-01	1.10E-01	1.13E-01	2.82E-01	3.14E-01	3.28E-01	5.32E-02	7.10E+00
8.0E-01	1.15E-02	4.08E-02	2.02E-02	2.19E-02	8.89E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.71E-01	1.23E-01	1.29E-01	1.02E-01	1.04E-01	1.10E-01	1.13E-01	2.35E-01	2.93E-01	3.00E-01	5.24E-02	6.84E+00
1.0E+00	1.15E-02	4.07E-02	2.02E-02	2.19E-02	8.76E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.60E-01	1.22E-01	1.28E-01	1.02E-01	1.04E-01	1.09E-01	1.12E-01	1.54E-01	2.42E-01	2.37E-01	4.10E-02	6.26E+00
1.2E+00	1.15E-02	4.06E-02	2.02E-02	2.19E-02	8.60E-02	5.37E-02	5.66E-02	3.70E-02	3.76E-02	1.47E-01	1.21E-01	1.27E-01	1.02E-01	1.03E-01	1.08E-01	1.11E-01	9.57E-02	1.86E-01	1.74E-01	2.52E-02	5.69E+00
1.4E+00	1.15E-02	4.04E-02	2.02E-02	2.19E-02	8.43E-02	5.37E-02	5.65E-02	3.70E-02	3.76E-02	1.33E-01	1.19E-01	1.24E-01	1.01E-01	1.03E-01	1.06E-01	1.09E-01	6.03E-02	1.34E-01	1.19E-01	1.34E-02	5.21E+00
1.6E+00	1.15E-02	4.03E-02	2.02E-02	2.19E-02	8.23E-02	5.36E-02	5.65E-02	3.70E-02	3.76E-02	1.18E-01	1.16E-01	1.21E-01	1.01E-01	1.02E-01	1.04E-01	1.06E-01	4.20E-02	9.18E-02	7.69E-02	6.76E-03	4.82E+00
1.8E+00	1.15E-02	4.01E-02	2.02E-02	2.19E-02	8.00E-02	5.35E-02	5.64E-02	3.70E-02	3.76E-02	1.04E-01	1.13E-01	1.17E-01	9.96E-02	1.01E-01	1.03E-01	1.03E-01	3.45E-02	6.02E-02	4.80E-02	3.65E-03	4.51E+00
2.0E+00	1.15E-02	3.99E-02	2.02E-02	2.19E-02	7.77E-02	5.34E-02	5.62E-02	3.70E-02	3.76E-02	9.03E-02	1.08E-01	1.11E-01	9.82E-02	9.97E-02	9.79E-02	9.89E-02	3.24E-02	3.87E-02	2.99E-02	2.48E-03	4.27E+00
2.4E+00	1.15E-02	3.94E-02	2.02E-02	2.18E-02	7.24E-02	5.31E-02	5.58E-02	3.70E-02	3.75E-02	6.60E-02	9.74E-02	9.83E-02	9.40E-02	9.52E-02	8.98E-02	9.00E-02	3.19E-02	1.76E-02	1.45E-02	2.12E-03	3.89E+00
3.0E+00	1.15E-02	3.85E-02	2.02E-02	2.18E-02	6.37E-02	5.23E-02	5.48E-02	3.69E-02	3.75E-02	3.95E-02	7.73E-02	7.54E-02	8.38E-02	8.43E-02	7.62E-02	7.56E-02	2.54E-02	1.15E-02	1.15E-02	1.86E-03	3.39E+00
4.0E+00	1.14E-02	3.67E-02	2.01E-02	2.18E-02	4.85E-02	4.98E-02	5.17E-02	3.67E-02	3.73E-02	2.05E-02	4.38E-02	3.97E-02	6.03E-02	5.96E-02	5.45E-02	5.33E-02	9.65E-03	1.03E-02	9.37E-03	7.41E-04	2.56E+00
5.0E+00	1.14E-02	3.45E-02	2.01E-02	2.17E-02	3.47E-02	4.57E-02	4.67E-02	3.62E-02	3.67E-02	1.78E-02	2.10E-02	1.80E-02	3.70E-02	3.59E-02	3.71E-02	3.60E-02	3.52E-03	5.89E-03	4.66E-03	2.41E-04	1.89E+00
6.0E+00	1.13E-02	3.20E-02	2.00E-02	2.16E-02	2.35E-02	4.03E-02	4.03E-02	3.52E-02	3.57E-02	1.73E-02	1.05E-02	9.52E-03	2.01E-02	1.91E-02	2.46E-02	2.37E-02	2.79E-03	2.56E-03	1.88E-03	1.71E-04	1.43E+00
7.0E+00	1.12E-02	2.94E-02	1.98E-02	2.13E-02	1.57E-02	3.40E-02	3.32E-02	3.36E-02	3.40E-02	1.46E-02	7.50E-03	7.66E-03	1.02E-02	9.56E-03	1.60E-02	1.53E-02	2.67E-03	1.19E-03	9.74E-04	1.66E-04	1.13E+00
8.0E+00	1.11E-02	2.66E-02	1.96E-02	2.10E-02	1.08E-02	2.75E-02	2.61E-02	3.14E-02	3.17E-02	1.05E-02	7.15E-03	7.56E-03	5.38E-03	5.05E-03	1.04E-02	9.89E-03	2.13E-03	8.68E-04	8.38E-04	1.34E-04	9.34E-01
1.0E+01	1.10E-02	2.10E-02	1.90E-02	2.00E-02	7.20E-03	1.60E-02	1.40E-02	2.60E-02	2.60E-02	4.00E-03	6.40E-03	6.20E-03	2.90E-03	2.90E-03	4.30E-03	4.10E-03	8.60E-04	8.20E-04	7.60E-04	5.50E-05	6.70E-01
1.5E+01	1.00E-02	9.70E-03	1.60E-02	1.60E-02	6.20E-03	3.30E-03	2.90E-03	1.20E-02	1.20E-02	1.60E-03	1.50E-03	1.20E-03	2.30E-03	2.30E-03	5.30E-04	4.90E-04	2.40E-04	2.20E-04	1.50E-04	1.50E-05	3.30E-01
2.0E+01	9.20E-03	3.80E-03	1.20E-02	1.20E-02	3.20E-03	1.90E-03	2.20E-03	4.60E-03	4.40E-03	1.00E-03	4.20E-04	4.50E-04	1.10E-03	1.00E-03	7.90E-05	7.30E-05	1.60E-04	5.20E-05	5.00E-05	9.80E-06	1.80E-01
3.0E+01	7.10E-03	1.10E-03	5.40E-03	4.60E-03	3.70E-04	1.40E-03	1.40E-03	6.30E-04	5.60E-04	1.10E-04	3.20E-04	3.20E-04	1.50E-04	1.40E-04	3.30E-06	2.90E-06	1.70E-05	4.00E-05	3.60E-05	1.10E-06	6.40E-02
4.0E+01	5.10E-03	1.00E-03	2.20E-03	1.70E-03	2.10E-04	6.40E-04	5.20E-04	1.00E-04	8.70E-05	4.90E-05	1.50E-04	1.20E-04	2.50E-05	2.10E-05	2.50E-07	2.10E-07	7.30E-06	1.90E-05	1.40E-05	4.40E-07	2.90E-02
6.0E+01	2.50E-03	5.90E-04	3.80E-04	2.30E-04	1.40E-04	1.10E-04	7.00E-05	5.30E-06	4.10E-06	3.40E-05	2.50E-05	1.70E-05	1.30E-06	9.60E-07	4.70E-09	3.70E-09	5.00E-06	3.10E-06	1.90E-06	3.00E-07	8.80E-03
1.0E+02	5.70E-04	1.20E-04	2.60E-05	1.10E-05	2.70E-05	7.00E-06	3.00E-06	9.00E-08	5.30E-08	6.50E-06	1.60E-06	6.90E-07	2.10E-08	1.20E-08	2.50E-11	1.70E-11	9.60E-07	2.00E-07	7.90E-08	5.90E-08	1.60E-03
E[keV]:	5.56E+01	9.40E+00	8.92E+00	8.07E+00	2.12E+00	1.92E+00	1.74E+00	1.39E+00	1.35E+00	4.31E-01	3.49E-01	3.09E-01	1.64E-01	1.61E-01	0.00E+00	0.00E+00	5.10E-02	2.00E-02	2.00E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(5)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.15E-01	5.23E-01	7.49E-01	8.97E-01	1.12E+00	1.51E+00	1.76E+00	2.28E+00	2.68E+00	3.31E+00	3.97E+00	4.54E+00	5.59E+00	6.31E+00	7.86E+00	1.18E+01	1.18E+01
5.0E-02	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.15E-01	5.23E-01	7.49E-01	8.97E-01	1.12E+00	1.51E+00	1.76E+00	2.28E+00	2.68E+00	3.31E+00	3.97E+00	4.54E+00	5.59E+00	6.30E+00	7.85E+00	1.17E+01	1.17E+01
1.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.15E-01	5.23E-01	7.49E-01	8.97E-01	1.12E+00	1.51E+00	1.76E+00	2.28E+00	2.68E+00	3.31E+00	3.97E+00	4.54E+00	5.58E+00	6.29E+00	7.84E+00	1.12E+01	1.12E+01
1.5E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.15E-01	5.23E-01	7.49E-01	8.97E-01	1.12E+00	1.51E+00	1.76E+00	2.28E+00	2.68E+00	3.31E+00	3.97E+00	4.54E+00	5.56E+00	6.28E+00	7.83E+00	1.06E+01	1.06E+01
2.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.15E-01	5.22E-01	7.49E-01	8.97E-01	1.12E+00	1.51E+00	1.75E+00	2.27E+00	2.68E+00	3.31E+00	3.97E+00	4.54E+00	5.53E+00	6.25E+00	7.80E+00	9.94E+00	9.94E+00
3.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.15E-01	5.22E-01	7.48E-01	8.96E-01	1.12E+00	1.50E+00	1.75E+00	2.27E+00	2.68E+00	3.30E+00	3.96E+00	4.53E+00	5.47E+00	6.18E+00	7.72E+00	8.76E+00	8.75E+00
4.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.14E-01	5.21E-01	7.48E-01	8.96E-01	1.12E+00	1.50E+00	1.74E+00	2.26E+00	2.67E+00	3.30E+00	3.96E+00	4.53E+00	5.38E+00	6.09E+00	7.60E+00	8.02E+00	8.01E+00
5.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.13E-01	5.21E-01	7.47E-01	8.95E-01	1.12E+00	1.49E+00	1.74E+00	2.26E+00	2.66E+00	3.29E+00	3.95E+00	4.52E+00	5.28E+00	5.97E+00	7.44E+00	7.61E+00	7.61E+00
6.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.13E-01	5.20E-01	7.46E-01	8.94E-01	1.12E+00	1.48E+00	1.73E+00	2.25E+00	2.66E+00	3.28E+00	3.94E+00	4.51E+00	5.17E+00	5.83E+00	7.23E+00	7.34E+00	7.34E+00
7.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.11E-01	5.19E-01	7.45E-01	8.93E-01	1.12E+00	1.47E+00	1.72E+00	2.24E+00	2.64E+00	3.27E+00	3.93E+00	4.49E+00	5.06E+00	5.69E+00	7.00E+00	7.10E+00	7.10E+00
8.0E-01	2.30E-02	1.05E-01	1.45E-01	2.33E-01	4.10E-01	5.18E-01	7.44E-01	8.92E-01	1.12E+00	1.46E+00	1.71E+00	2.22E+00	2.63E+00	3.25E+00	3.91E+00	4.48E+00	4.95E+00	5.53E+00	6.73E+00	6.84E+00	6.84E+00
1.0E+00	2.30E-02	1.04E-01	1.45E-01	2.32E-01	4.08E-01	5.15E-01	7.41E-01	8.89E-01	1.12E+00	1.44E+00	1.68E+00	2.19E+00	2.60E+00	3.22E+00	3.88E+00	4.44E+00	4.75E+00	5.23E+00	6.18E+00	6.26E+00	6.26E+00
1.2E+00	2.30E-02	1.04E-01	1.45E-01	2.32E-01	4.04E-01	5.12E-01	7.38E-01	8.86E-01	1.11E+00	1.41E+00	1.65E+00	2.16E+00	2.56E+00	3.18E+00	3.82E+00	4.38E+00	4.56E+00	4.95E+00	5.64E+00	5.69E+00	5.69E+00
1.4E+00	2.30E-02	1.04E-01	1.44E-01	2.32E-01	4.00E-01	5.08E-01	7.34E-01	8.82E-01	1.11E+00	1.37E+00	1.61E+00	2.11E+00	2.51E+00	3.13E+00	3.77E+00	4.31E+00	4.43E+00	4.70E+00	5.18E+00	5.20E+00	5.21E+00
1.6E+00	2.30E-02	1.04E-01	1.44E-01	2.32E-01	3.96E-01	5.03E-01	7.29E-01	8.77E-01	1.10E+00	1.34E+00	1.57E+00	2.06E+00	2.46E+00	3.07E+00	3.69E+00	4.22E+00	4.31E+00	4.49E+00	4.80E+00	4.81E+00	4.82E+00
1.8E+00	2.30E-02	1.03E-01	1.44E-01	2.31E-01	3.91E-01	4.98E-01	7.24E-01	8.72E-01	1.10E+00	1.31E+00	1.53E+00	2.00E+00	2.40E+00	3.00E+00	3.61E+00	4.12E+00	4.19E+00	4.31E+00	4.51E+00	4.51E+00	4.51E+00
2.0E+00	2.30E-02	1.03E-01	1.43E-01	2.31E-01	3.86E-01	4.93E-01	7.18E-01	8.66E-01	1.09E+00	1.27E+00	1.49E+00	1.93E+00	2.32E+00	2.92E+00	3.51E+00	4.00E+00	4.07E+00	4.15E+00	4.27E+00	4.27E+00	4.27E+00
2.4E+00	2.30E-02	1.02E-01	1.42E-01	2.29E-01	3.74E-01	4.80E-01	7.04E-01	8.52E-01	1.08E+00	1.21E+00	1.40E+00	1.80E+00	2.17E+00	2.74E+00	3.28E+00	3.73E+00	3.80E+00	3.83E+00	3.89E+00	3.89E+00	3.89E+00
3.0E+00	2.30E-02	1.00E-01	1.40E-01	2.28E-01	3.55E-01	4.60E-01	6.79E-01	8.26E-01	1.05E+00	1.13E+00	1.28E+00	1.59E+00	1.92E+00	2.43E+00	2.88E+00	3.26E+00	3.31E+00	3.34E+00	3.38E+00	3.39E+00	3.39E+00
4.0E+00	2.28E-02	9.62E-02	1.36E-01	2.24E-01	3.21E-01	4.20E-01	6.27E-01	7.74E-01	9.98E-01	1.04E+00	1.13E+00	1.29E+00	1.53E+00	1.88E+00	2.21E+00	2.48E+00	2.50E+00	2.52E+00	2.55E+00	2.56E+00	2.56E+00
5.0E+00	2.28E-02	9.18E-02	1.32E-01	2.19E-01	2.88E-01	3.80E-01	5.66E-01	7.11E-01	9.31E-01	9.67E-01	1.01E+00	1.08E+00	1.23E+00	1.44E+00	1.67E+00	1.85E+00	1.85E+00	1.87E+00	1.88E+00	1.88E+00	1.89E+00
6.0E+00	2.26E-02	8.66E-02	1.27E-01	2.13E-01	2.60E-01	3.41E-01	5.02E-01	6.43E-01	8.57E-01	8.91E-01	9.12E-01	9.50E-01	1.03E+00	1.15E+00	1.29E+00	1.41E+00	1.42E+00	1.42E+00	1.43E+00	1.43E+00	1.43E+00
7.0E+00	2.24E-02	8.12E-02	1.21E-01	2.06E-01	2.37E-01	3.05E-01	4.38E-01	5.73E-01	7.77E-01	8.06E-01	8.21E-01	8.51E-01	8.92E-01	9.50E-01	1.05E+00	1.12E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
8.0E+00	2.22E-02	7.54E-02	1.15E-01	1.99E-01	2.20E-01	2.75E-01	3.80E-01	5.05E-01	6.95E-01	7.16E-01	7.31E-01	7.61E-01	7.82E-01	8.13E-01	8.75E-01	9.25E-01	9.29E-01	9.31E-01	9.34E-01	9.34E-01	9.34E-01
1.0E+01	2.20E-02	6.40E-02	1.02E-01	1.82E-01	1.96E-01	2.28E-01	2.84E-01	3.88E-01	5.44E-01	5.52E-01	5.65E-01	5.90E-01	6.02E-01	6.15E-01	6.45E-01	6.65E-01	6.67E-01	6.69E-01	6.72E-01	6.72E-01	6.70E-01
1.5E+01	2.00E-02	3.94E-02	7.14E-02	1.35E-01	1.54E-01	1.66E-01	2.14E-01	2.86E-01	2.89E-01	2.92E-01	2.97E-01	3.06E-01	3.20E-01	3.23E-01	3.23E-01	3.26E-01	3.26E-01	3.27E-01	3.27E-01	3.27E-01	3.30E-01
2.0E+01	1.84E-02	2.60E-02	5.00E-02	9.80E-02	1.04E-01	1.08E-01	1.17E-01	1.35E-01	1.62E-01	1.64E-01	1.65E-01	1.66E-01	1.71E-01	1.77E-01	1.77E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.80E-01
3.0E+01	1.42E-02	1.64E-02	2.72E-02	4.56E-02	4.63E-02	4.91E-02	5.47E-02	5.73E-02	6.06E-02	6.08E-02	6.15E-02	6.28E-02	6.34E-02	6.42E-02	6.42E-02	6.42E-02	6.43E-02	6.43E-02	6.45E-02	6.45E-02	6.40E-02
4.0E+01	1.02E-02	1.22E-02	1.66E-02	2.34E-02	2.38E-02	2.51E-02	2.72E-02	2.76E-02	2.81E-02	2.82E-02	2.85E-02	2.90E-02	2.91E-02	2.92E-02	2.92E-02	2.92E-02	2.92E-02	2.92E-02	2.93E-02	2.93E-02	2.90E-02
6.0E+01	5.00E-03	6.18E-03	6.94E-03	7.86E-03	8.14E-03	8.36E-03	8.64E-03	8.66E-03	8.69E-03	8.75E-03	8.80E-03	8.87E-03	8.88E-03	8.88E-03	8.88E-03	8.88E-03	8.89E-03	8.90E-03	8.91E-03	8.91E-03	8.80E-03
1.0E+02	1.14E-03	1.38E-03	1.43E-03	1.48E-03	1.53E-03	1.54E-03	1.56E-03	1.56E-03	1.56E-03	1.57E-03	1.57E-03	1.58E-03	1.58E-03	1.58E-03	1.58E-03	1.58E-03	1.58E-03	1.58E-03	1.58E-03	1.58E-03	1.60E-03
E[keV]:	5.56E+01	9.40E+00	8.92E+00	8.07E+00	2.12E+00	1.92E+00	1.74E+00	1.39E+00	1.35E+00	4.31E-01	3.49E-01	3.09E-01	1.64E-01	1.61E-01	0.00E+00	0.00E+00	5.10E-02	2.00E-02	2.00E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	5.21E+00	7.48E+00	8.53E+00	9.15E+00	9.56E+00	1.01E+01	1.03E+01	1.07E+01	1.09E+01	1.11E+01	1.13E+01	1.14E+01	1.16E+01	1.17E+01	1.17E+01	1.18E+01	1.18E+01	1.18E+01			
5.0E-02	5.05E+00	7.32E+00	8.37E+00	8.99E+00	9.40E+00	9.92E+00	1.02E+01	1.06E+01	1.08E+01	1.09E+01	1.12E+01	1.13E+01	1.14E+01	1.15E+01	1.16E+01	1.17E+01	1.17E+01	1.17E+01			
1.0E-01	4.63E+00	6.90E+00	7.94E+00	8.56E+00	8.97E+00	9.49E+00	9.73E+00	1.01E+01	1.03E+01	1.05E+01	1.07E+01	1.08E+01	1.10E+01	1.11E+01	1.11E+01	1.12E+01	1.12E+01	1.12E+01			
1.5E-01	4.03E+00	6.30E+00	7.32E+00	7.94E+00	8.35E+00	8.87E+00	9.12E+00	9.51E+00	9.73E+00	9.88E+00	1.01E+01	1.02E+01	1.04E+01	1.05E+01	1.05E+01	1.06E+01	1.06E+01	1.06E+01			
2.0E-01	3.37E+00	5.64E+00	6.64E+00	7.26E+00	7.67E+00	8.19E+00	8.43E+00	8.82E+00	9.05E+00	9.19E+00	9.42E+00	9.53E+00	9.71E+00	9.80E+00	9.84E+00	9.92E+00	9.94E+00	9.94E+00			
3.0E-01	2.27E+00	4.52E+00	5.46E+00	6.08E+00	6.49E+00	7.01E+00	7.26E+00	7.64E+00	7.86E+00	8.01E+00	8.24E+00	8.35E+00	8.53E+00	8.61E+00	8.65E+00	8.74E+00	8.76E+00	8.75E+00			
4.0E-01	1.65E+00	3.87E+00	4.72E+00	5.35E+00	5.76E+00	6.28E+00	6.52E+00	6.90E+00	7.12E+00	7.27E+00	7.50E+00	7.61E+00	7.79E+00	7.87E+00	7.91E+00	8.00E+00	8.02E+00	8.01E+00			
5.0E-01	1.41E+00	3.56E+00	4.32E+00	4.95E+00	5.36E+00	5.88E+00	6.12E+00	6.49E+00	6.72E+00	6.87E+00	7.09E+00	7.20E+00	7.38E+00	7.47E+00	7.51E+00	7.59E+00	7.61E+00	7.61E+00			
6.0E-01	1.34E+00	3.40E+00	4.06E+00	4.69E+00	5.10E+00	5.62E+00	5.86E+00	6.22E+00	6.45E+00	6.60E+00	6.82E+00	6.93E+00	7.11E+00	7.20E+00	7.24E+00	7.32E+00	7.34E+00	7.34E+00			
7.0E-01	1.33E+00	3.27E+00	3.84E+00	4.46E+00	4.87E+00	5.39E+00	5.63E+00	5.99E+00	6.21E+00	6.36E+00	6.59E+00	6.69E+00	6.87E+00	6.96E+00	7.00E+00	7.08E+00	7.10E+00	7.10E+00			
8.0E-01	1.33E+00	3.12E+00	3.59E+00	4.21E+00	4.62E+00	5.13E+00	5.38E+00	5.72E+00	5.95E+00	6.10E+00	6.32E+00	6.42E+00	6.61E+00	6.69E+00	6.74E+00	6.82E+00	6.84E+00	6.84E+00			
1.0E+00	1.30E+00	2.73E+00	3.04E+00	3.66E+00	4.07E+00	4.58E+00	4.82E+00	5.14E+00	5.37E+00	5.52E+00	5.74E+00	5.85E+00	6.03E+00	6.11E+00	6.15E+00	6.24E+00	6.26E+00	6.26E+00			
1.2E+00	1.25E+00	2.32E+00	2.51E+00	3.13E+00	3.54E+00	4.05E+00	4.29E+00	4.58E+00	4.81E+00	4.96E+00	5.18E+00	5.29E+00	5.46E+00	5.55E+00	5.59E+00	5.67E+00	5.69E+00	5.69E+00			
1.4E+00	1.21E+00	1.95E+00	2.07E+00	2.69E+00	3.09E+00	3.59E+00	3.83E+00	4.09E+00	4.32E+00	4.47E+00	4.69E+00	4.80E+00	4.97E+00	5.06E+00	5.10E+00	5.18E+00	5.20E+00	5.21E+00			
1.6E+00	1.17E+00	1.66E+00	1.74E+00	2.35E+00	2.76E+00	3.24E+00	3.47E+00	3.71E+00	3.94E+00	4.08E+00	4.31E+00	4.42E+00	4.58E+00	4.67E+00	4.71E+00	4.79E+00	4.81E+00	4.82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Compton profiles for the single orbitals and binding energies

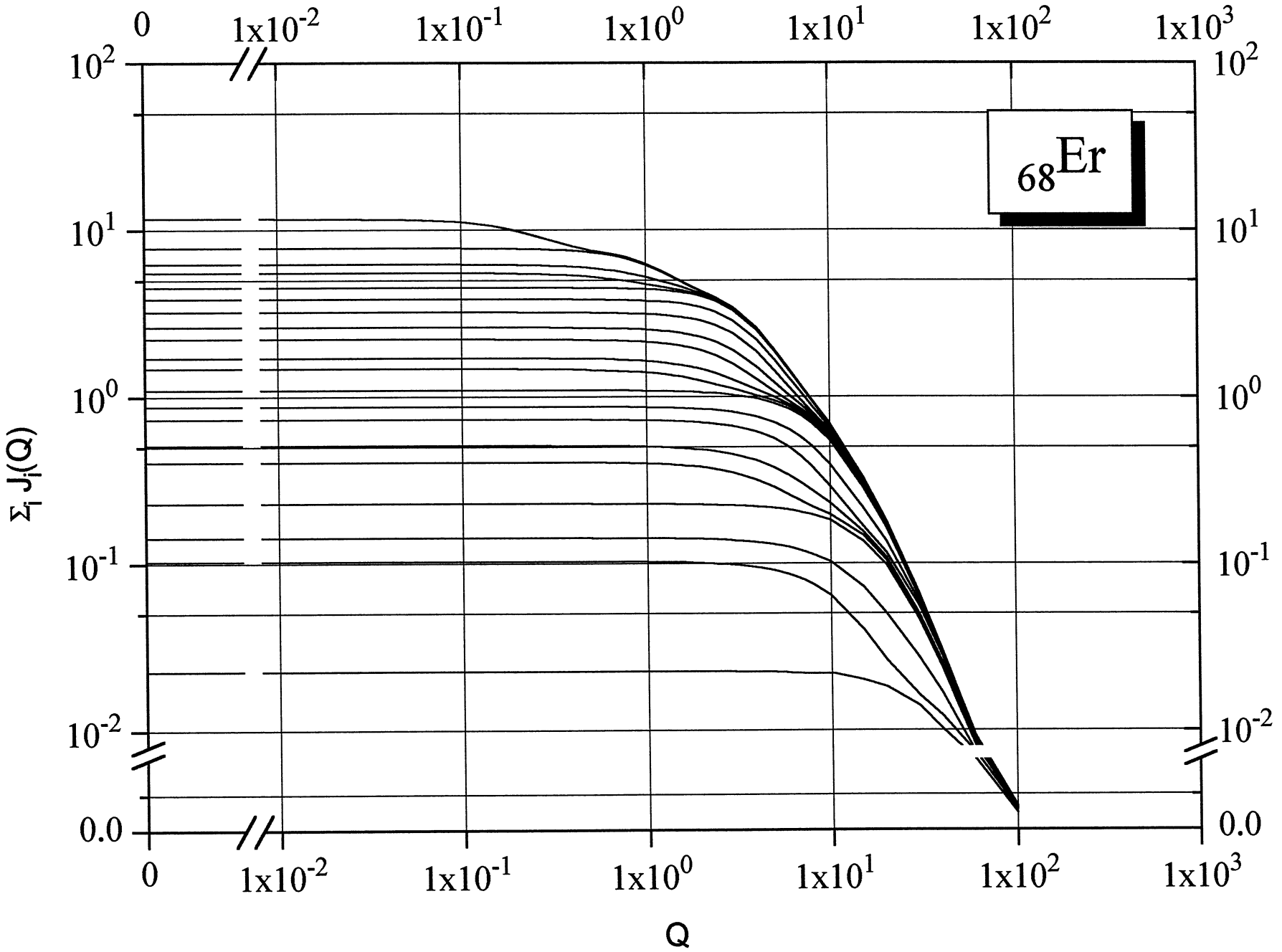
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(6)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.93E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.90E-01	1.21E-01	1.28E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	5.17E-01	3.53E-01	3.83E-01	1.97E+00	1.18E+01
5.0E-02	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.93E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.90E-01	1.21E-01	1.28E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	5.16E-01	3.53E-01	3.83E-01	1.90E+00	1.16E+01
1.0E-01	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.93E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.90E-01	1.21E-01	1.28E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	5.11E-01	3.53E-01	3.83E-01	1.69E+00	1.12E+01
1.5E-01	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.93E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.90E-01	1.21E-01	1.28E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	5.03E-01	3.53E-01	3.83E-01	1.40E+00	1.06E+01
2.0E-01	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.92E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.89E-01	1.21E-01	1.28E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	4.92E-01	3.52E-01	3.82E-01	1.08E+00	9.91E+00
3.0E-01	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.90E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.87E-01	1.21E-01	1.28E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	4.62E-01	3.51E-01	3.80E-01	5.28E-01	8.74E+00
4.0E-01	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.88E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.85E-01	1.21E-01	1.28E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	4.24E-01	3.47E-01	3.74E-01	2.15E-01	8.00E+00
5.0E-01	1.13E-02	4.02E-02	1.98E-02	2.15E-02	8.85E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.81E-01	1.21E-01	1.27E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	3.79E-01	3.39E-01	3.63E-01	8.97E-02	7.59E+00
6.0E-01	1.13E-02	4.01E-02	1.98E-02	2.15E-02	8.81E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.78E-01	1.21E-01	1.27E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	3.31E-01	3.27E-01	3.47E-01	5.59E-02	7.33E+00
7.0E-01	1.13E-02	4.01E-02	1.98E-02	2.15E-02	8.77E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.73E-01	1.20E-01	1.27E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	2.83E-01	3.11E-01	3.25E-01	5.17E-02	7.10E+00
8.0E-01	1.13E-02	4.00E-02	1.98E-02	2.15E-02	8.72E-02	5.26E-02	5.56E-02	3.62E-02	3.69E-02	1.69E-01	1.20E-01	1.27E-01	9.96E-02	1.01E-01	1.07E-01	1.10E-01	2.37E-01	2.91E-01	2.99E-01	5.11E-02	6.85E+00
1.0E+00	1.13E-02	4.00E-02	1.98E-02	2.15E-02	8.60E-02	5.26E-02	5.55E-02	3.62E-02	3.69E-02	1.58E-01	1.20E-01	1.26E-01	9.95E-02	1.01E-01	1.06E-01	1.09E-01	1.57E-01	2.42E-01	2.39E-01	4.09E-02	6.29E+00
1.2E+00	1.13E-02	3.98E-02	1.98E-02	2.15E-02	8.45E-02	5.26E-02	5.55E-02	3.62E-02	3.69E-02	1.45E-01	1.18E-01	1.24E-01	9.93E-02	1.01E-01	1.06E-01	1.08E-01	9.89E-02	1.88E-01	1.76E-01	2.57E-02	5.73E+00
1.4E+00	1.13E-02	3.97E-02	1.98E-02	2.15E-02	8.28E-02	5.26E-02	5.55E-02	3.62E-02	3.69E-02	1.32E-01	1.17E-01	1.22E-01	9.90E-02	1.01E-01	1.04E-01	1.06E-01	6.24E-02	1.36E-01	1.22E-01	1.40E-02	5.25E+00
1.6E+00	1.13E-02	3.95E-02	1.98E-02	2.15E-02	8.09E-02	5.25E-02	5.54E-02	3.62E-02	3.69E-02	1.18E-01	1.14E-01	1.19E-01	9.85E-02	1.00E-01	1.02E-01	1.04E-01	4.29E-02	9.54E-02	8.00E-02	7.14E-03	4.86E+00
1.8E+00	1.13E-02	3.94E-02	1.98E-02	2.15E-02	7.88E-02	5.24E-02	5.53E-02	3.62E-02	3.69E-02	1.04E-01	1.11E-01	1.15E-01	9.76E-02	9.92E-02	9.93E-02	1.01E-01	3.44E-02	6.33E-02	5.05E-02	3.82E-03	4.56E+00
2.0E+00	1.13E-02	3.92E-02	1.98E-02	2.15E-02	7.66E-02	5.23E-02	5.52E-02	3.62E-02	3.69E-02	9.11E-02	1.07E-01	1.10E-01	9.64E-02	9.80E-02	9.61E-02	9.72E-02	3.18E-02	4.11E-02	3.16E-02	2.49E-03	4.32E+00
2.4E+00	1.13E-02	3.87E-02	1.98E-02	2.15E-02	7.16E-02	5.20E-02	5.48E-02	3.62E-02	3.69E-02	6.73E-02	9.68E-02	9.80E-02	9.26E-02	9.38E-02	8.86E-02	8.89E-02	3.13E-02	1.84E-02	1.49E-02	2.04E-03	3.94E+00
3.0E+00	1.13E-02	3.79E-02	1.98E-02	2.15E-02	6.33E-02	5.13E-02	5.39E-02	3.62E-02	3.68E-02	4.08E-02	7.79E-02	7.61E-02	8.33E-02	8.38E-02	7.59E-02	7.54E-02	2.57E-02	1.13E-02	1.12E-02	1.83E-03	3.44E+00
4.0E+00	1.12E-02	3.62E-02	1.97E-02	2.14E-02	4.87E-02	4.90E-02	5.10E-02	3.60E-02	3.66E-02	2.07E-02	4.53E-02	4.12E-02	6.11E-02	6.04E-02	5.51E-02	5.41E-02	1.03E-02	1.02E-02	9.42E-03	7.78E-04	2.62E+00
5.0E+00	1.12E-02	3.41E-02	1.97E-02	2.14E-02	3.52E-02	4.52E-02	4.63E-02	3.55E-02	3.61E-02	1.75E-02	2.23E-02	1.91E-02	3.84E-02	3.73E-02	3.81E-02	3.70E-02	3.67E-03	6.15E-03	4.91E-03	2.51E-04	1.94E+00
6.0E+00	1.11E-02	3.17E-02	1.96E-02	2.12E-02	2.42E-02	4.01E-02	4.03E-02	3.46E-02	3.51E-02	1.71E-02	1.11E-02	9.87E-03	2.14E-02	2.03E-02	2.56E-02	2.47E-02	2.73E-03	2.77E-03	2.02E-03	1.65E-04	1.47E+00
7.0E+00	1.10E-02	2.92E-02	1.94E-02	2.10E-02	1.63E-02	3.42E-02	3.34E-02	3.32E-02	3.36E-02	1.48E-02	7.54E-03	7.60E-03	1.11E-02	1.04E-02	1.69E-02	1.63E-02	2.65E-03	1.26E-03	1.00E-03	1.61E-04	1.17E+00
8.0E+00	1.09E-02	2.65E-02	1.92E-02	2.07E-02	1.12E-02	2.80E-02	2.66E-02	3.12E-02	3.15E-02	1.09E-02	7.02E-03	7.45E-03	5.83E-03	5.46E-03	1.11E-02	1.06E-02	2.18E-03	8.60E-04	8.19E-04	1.35E-04	9.56E-01
1.0E+01	1.10E-02	2.10E-02	1.90E-02	2.00E-02	7.20E-03	1.70E-02	1.50E-02	2.60E-02	2.60E-02	4.40E-03	6.50E-03	6.30E-03	2.90E-03	2.90E-03	4.70E-03	4.50E-03	9.40E-04	8.00E-04	7.60E-04	5.90E-05	6.90E-01
1.5E+01	1.00E-02	1.00E-02	1.60E-02	1.60E-02	6.20E-03	3.50E-03	3.00E-03	1.20E-02	1.20E-02	1.60E-03	1.70E-03	1.30E-03	2.30E-03	2.30E-03	6.00E-04	5.60E-04	2.30E-04	2.40E-04	1.70E-04	1.40E-05	3.30E-01
2.0E+01	9.10E-03	4.00E-03	1.20E-02	1.20E-02	3.30E-03	1.90E-03	2.20E-03	4.90E-03	4.60E-03	1.10E-03	4.30E-04	4.50E-04	1.10E-03	1.10E-03	9.20E-05	8.50E-05	1.70E-04	5.30E-05	5.00E-05	1.00E-05	1.80E-01
3.0E+01	7.00E-03	1.10E-03	5.50E-03	4.80E-03	4.10E-04	1.50E-03	1.40E-03	6.90E-04	6.20E-04	1.20E-04	3.30E-04	3.30E-04	1.70E-04	1.50E-04	4.00E-06	3.50E-06	1.90E-05	4.00E-05	3.70E-05	1.20E-06	6.60E-02
4.0E+01	5.10E-03	9.80E-04	2.30E-03	1.70E-03	2.10E-04	6.70E-04	5.60E-04	1.10E-04	9.70E-05	4.90E-05	1.60E-04	1.30E-04	2.80E-05	2.40E-05	3.00E-07	2.60E-07	7.20E-06	1.90E-05	1.50E-05	4.30E-07	3.00E-02
6.0E+01	2.50E-03	6.00E-04	4.10E-04	2.50E-04	1.40E-04	1.20E-04	7.60E-05	6.10E-06	4.60E-06	3.50E-05	2.80E-05	1.80E-05	1.50E-06	1.10E-06	5.80E-09	4.60E-09	5.10E-06	3.40E-06	2.00E-06	3.10E-07	9.20E-03
1.0E+02	6.00E-04	1.20E-04	2.90E-05	1.20E-05	2.90E-05	7.80E-06	3.30E-06	1.00E-07	6.10E-08	7.00E-06	1.80E-06	7.70E-07	2.40E-08	1.40E-08	3.20E-11	2.10E-11	1.00E-06	2.20E-07	8.70E-08	6.20E-08	1.70E-03
E[keV]:	5.75E+01	9.75E+00	9.26E+00	8.36E+00	2.21E+00	2.01E+00	1.82E+00	1.46E+00	1.41E+00	4.53E-01	3.66E-01	3.20E-01	1.72E-01	1.69E-01	0.00E+00	0.00E+00	6.40E-02	3.30E-02	3.30E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(6)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.07E-01	5.12E-01	7.35E-01	8.80E-01	1.10E+00	1.48E+00	1.72E+00	2.24E+00	2.63E+00	3.24E+00	3.88E+00	4.54E+00	5.58E+00	6.28E+00	7.81E+00	1.18E+01	1.18E+01
5.0E-02	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.07E-01	5.12E-01	7.35E-01	8.80E-01	1.10E+00	1.48E+00	1.72E+00	2.24E+00	2.63E+00	3.24E+00	3.88E+00	4.54E+00	5.57E+00	6.28E+00	7.81E+00	1.16E+01	1.16E+01
1.0E-01	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.07E-01	5.12E-01	7.35E-01	8.80E-01	1.10E+00	1.48E+00	1.72E+00	2.24E+00	2.63E+00	3.24E+00	3.88E+00	4.54E+00	5.56E+00	6.27E+00	7.80E+00	1.12E+01	1.12E+01
1.5E-01	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.07E-01	5.12E-01	7.35E-01	8.80E-01	1.10E+00	1.48E+00	1.72E+00	2.24E+00	2.63E+00	3.24E+00	3.88E+00	4.54E+00	5.55E+00	6.25E+00	7.79E+00	1.06E+01	1.06E+01
2.0E-01	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.07E-01	5.12E-01	7.35E-01	8.79E-01	1.10E+00	1.48E+00	1.72E+00	2.23E+00	2.63E+00	3.24E+00	3.88E+00	4.54E+00	5.52E+00	6.23E+00	7.76E+00	9.92E+00	9.91E+00
3.0E-01	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.07E-01	5.12E-01	7.34E-01	8.79E-01	1.10E+00	1.47E+00	1.72E+00	2.23E+00	2.63E+00	3.23E+00	3.87E+00	4.53E+00	5.46E+00	6.16E+00	7.68E+00	8.74E+00	8.74E+00
4.0E-01	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.06E-01	5.11E-01	7.34E-01	8.79E-01	1.10E+00	1.47E+00	1.71E+00	2.22E+00	2.62E+00	3.23E+00	3.87E+00	4.53E+00	5.38E+00	6.07E+00	7.57E+00	8.00E+00	8.00E+00
5.0E-01	2.26E-02	1.03E-01	1.43E-01	2.29E-01	4.06E-01	5.11E-01	7.33E-01	8.78E-01	1.10E+00	1.46E+00	1.70E+00	2.21E+00	2.61E+00	3.22E+00	3.86E+00	4.52E+00	5.28E+00	5.95E+00	7.41E+00	7.59E+00	7.59E+00
6.0E-01	2.26E-02	1.03E-01	1.42E-01	2.28E-01	4.05E-01	5.10E-01	7.32E-01	8.77E-01	1.10E+00	1.45E+00	1.70E+00	2.20E+00	2.60E+00	3.21E+00	3.85E+00	4.51E+00	5.17E+00	5.83E+00	7.21E+00	7.33E+00	7.33E+00
7.0E-01	2.26E-02	1.03E-01	1.42E-01	2.28E-01	4.04E-01	5.09E-01	7.31E-01	8.76E-01	1.10E+00	1.44E+00	1.68E+00	2.19E+00	2.59E+00	3.20E+00	3.84E+00	4.50E+00	5.06E+00	5.69E+00	6.99E+00	7.09E+00	7.10E+00
8.0E-01	2.26E-02	1.03E-01	1.42E-01	2.28E-01	4.03E-01	5.08E-01	7.30E-01	8.75E-01	1.10E+00	1.43E+00	1.67E+00	2.18E+00	2.58E+00	3.19E+00	3.83E+00	4.49E+00	4.96E+00	5.54E+00	6.74E+00	6.84E+00	6.85E+00
1.0E+00	2.26E-02	1.03E-01	1.42E-01	2.28E-01	4.00E-01	5.05E-01	7.27E-01	8.72E-01	1.09E+00	1.41E+00	1.65E+00	2.15E+00	2.55E+00	3.16E+00	3.79E+00	4.45E+00	4.76E+00	5.25E+00	6.20E+00	6.28E+00	6.29E+00
1.2E+00	2.26E-02	1.02E-01	1.42E-01	2.28E-01	3.97E-01	5.02E-01	7.24E-01	8.69E-01	1.09E+00	1.38E+00	1.62E+00	2.11E+00	2.51E+00	3.12E+00	3.75E+00	4.40E+00	4.60E+00	4.97E+00	5.68E+00	5.73E+00	5.73E+00
1.4E+00	2.26E-02	1.02E-01	1.42E-01	2.28E-01	3.93E-01	4.96E-01	7.20E-01	8.65E-01	1.09E+00	1.35E+00	1.58E+00	2.07E+00	2.47E+00	3.07E+00	3.71E+00	4.33E+00	4.46E+00	4.74E+00	5.22E+00	5.25E+00	5.25E+00
1.6E+00	2.26E-02	1.02E-01	1.41E-01	2.27E-01	3.89E-01	4.94E-01	7.16E-01	8.60E-01	1.08E+00	1.32E+00	1.55E+00	2.02E+00	2.42E+00	3.02E+00	3.63E+00	4.25E+00	4.34E+00	4.53E+00	4.85E+00	4.86E+00	4.86E+00
1.8E+00	2.26E-02	1.01E-01	1.41E-01	2.27E-01	3.85E-01	4.89E-01	7.11E-01	8.55E-01	1.08E+00	1.28E+00	1.51E+00	1.97E+00	2.36E+00	2.95E+00	3.55E+00	4.15E+00	4.22E+00	4.35E+00	4.55E+00	4.56E+00	4.56E+00
2.0E+00	2.26E-02	1.01E-01	1.41E-01	2.27E-01	3.80E-01	4.84E-01	7.05E-01	8.50E-01	1.07E+00	1.25E+00	1.47E+00	1.91E+00	2.29E+00	2.88E+00	3.46E+00	4.04E+00	4.10E+00	4.19E+00	4.31E+00	4.32E+00	4.32E+00
2.4E+00	2.26E-02	1.00E-01	1.40E-01	2.26E-01	3.69E-01	4.73E-01	6.92E-01	8.37E-01	1.06E+00	1.19E+00	1.39E+00	1.78E+00	2.15E+00	2.71E+00	3.24E+00	3.78E+00	3.84E+00	3.88E+00	3.94E+00	3.94E+00	3.94E+00
3.0E+00	2.26E-02	9.84E-02	1.38E-01	2.24E-01	3.51E-01	4.53E-01	6.69E-01	8.14E-01	1.03E+00	1.12E+00	1.27E+00	1.58E+00	1.91E+00	2.41E+00	2.87E+00	3.32E+00	3.37E+00	3.39E+00	3.44E+00	3.44E+00	3.44E+00
4.0E+00	2.24E-02	9.48E-02	1.34E-01	2.20E-01	3.17E-01	4.15E-01	6.19E-01	7.63E-01	9.83E-01	1.02E+00	1.11E+00	1.28E+00	1.52E+00	1.89E+00	2.22E+00	2.54E+00	2.56E+00	2.58E+00	2.62E+00	2.62E+00	2.62E+00
5.0E+00	2.24E-02	9.06E-02	1.30E-01	2.16E-01	2.86E-01	3.76E-01	5.62E-01	7.04E-01	9.20E-01	9.55E-01	1.00E+00	1.08E+00	1.23E+00	1.45E+00	1.68E+00	1.90E+00	1.91E+00	1.92E+00	1.94E+00	1.94E+00	1.94E+00
6.0E+00	2.22E-02	8.56E-02	1.25E-01	2.10E-01	2.58E-01	3.38E-01	4.99E-01	6.38E-01	8.48E-01	8.83E-01	9.05E-01	9.44E-01	1.03E+00	1.15E+00	1.31E+00	1.45E+00	1.46E+00	1.46E+00	1.47E+00	1.47E+00	1.47E+00
7.0E+00	2.20E-02	8.04E-02	1.19E-01	2.03E-01	2.36E-01	3.04E-01	4.38E-01	5.71E-01	7.72E-01	8.02E-01	8.17E-01	8.47E-01	8.92E-01	9.54E-01	1.06E+00	1.15E+00	1.16E+00	1.16E+00	1.17E+00	1.17E+00	1.17E+00
8.0E+00	2.18E-02	7.48E-02	1.13E-01	1.96E-01	2.18E-01	2.74E-01	3.81E-01	5.06E-01	6.95E-01	7.16E-01	7.30E-01	7.60E-01	7.84E-01	8.16E-01	8.82E-01	9.47E-01	9.51E-01	9.53E-01	9.56E-01	9.56E-01	9.56E-01
1.0E+01	2.20E-02	6.40E-02	1.02E-01	1.82E-01	1.96E-01	2.30E-01	2.90E-01	3.94E-01	5.50E-01	5.59E-01	5.72E-01	5.97E-01	6.09E-01	6.25E-01	6.55E-01	6.82E-01	6.83E-01	6.85E-01	6.88E-01	6.88E-01	6.90E-01
1.5E+01	2.00E-02	4.00E-02	7.20E-02	1.36E-01	1.48E-01	1.55E-01	1.67E-01	2.15E-01	2.97E-01	2.91E-01	2.94E-01	2.99E-01	3.08E-01	3.22E-01	3.26E-01	3.29E-01	3.30E-01	3.30E-01	3.31E-01	3.31E-01	3.30E-01
2.0E+01	1.82E-02	2.62E-02	5.02E-02	9.82E-02	1.05E-01	1.09E-01	1.17E-01	1.37E-01	1.65E-01	1.67E-01	1.68E-01	1.69E-01	1.74E-01	1.80E-01	1.81E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01	1.80E-01
3.0E+01	1.40E-02	1.62E-02	2.72E-02	4.64E-02	4.72E-02	5.02E-02	5.58E-02	5.86E-02	6.23E-02	6.25E-02	6.32E-02	6.45E-02	6.52E-02	6.61E-02	6.61E-02	6.61E-02	6.62E-02	6.63E-02	6.64E-02	6.64E-02	6.60E-02
4.0E+01	1.02E-02	1.22E-02	1.68E-02	2.36E-02	2.40E-02	2.53E-02	2.76E-02	2.80E-02	2.86E-02	2.87E-02	2.90E-02	2.95E-02	2.96E-02	2.98E-02	2.98E-02	2.98E-02	2.98E-02	2.98E-02	2.99E-02	2.99E-02	3.00E-02
6.0E+01	5.00E-03	6.20E-03	7.02E-03	8.02E-03	8.30E-03	8.54E-03	8.84E-03	8.87E-03	8.90E-03	8.97E-03	9.02E-03	9.09E-03	9.10E-03	9.11E-03	9.11E-03	9.11E-03	9.12E-03	9.12E-03	9.13E-03	9.13E-03	9.20E-03
1.0E+02	1.20E-03	1.44E-03	1.50E-03	1.55E-03	1.60E-03	1.62E-03	1.63E-03	1.63E-03	1.63E-03	1.65E-03	1.65E-03	1.65E-03	1.65E-03	1.65E-03	1.65E-03	1.65E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.70E-03
E[keV]:	5.75E+01	9.75E+00	9.26E+00	8.36E+00	2.21E+00	2.01E+00	1.82E+00	1.46E+00	1.41E+00	4.53E-01	3.66E-01	3.20E-01	1.72E-01	1.69E-01	0.00E+00	0.00E+00	6.40E-02	3.30E-02	3.30E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	5.24E+00	7.48E+00	8.51E+00	9.12E+00	9.52E+00	1.00E+01	1.03E+01	1.07E+01	1.09E+01	1.10E+01	1.12E+01	1.13E+01	1.15E+01	1.16E+01	1.17E+01	1.17E+01	1.18E+01	1.18E+01			
5.0E-02	5.10E+00	7.34E+00	8.37E+00	8.98E+00	9.38E+00	9.89E+00	1.01E+01	1.05E+01	1.07E+01	1.09E+01	1.11E+01	1.12E+01	1.14E+01	1.15E+01	1.15E+01	1.16E+01	1.16E+01	1.16E+01			
1.0E-01	4.68E+00	6.92E+00	7.94E+00	8.55E+00	8.95E+00	9.46E+00	9.70E+00	1.01E+01	1.03E+01	1.04E+01	1.07E+01	1.08E+01	1.10E+01	1.10E+01	1.11E+01	1.12E+01	1.12E+01	1.12E+01			
1.5E-01	4.10E+00	6.34E+00	7.35E+00	7.95E+00	8.35E+00	8.86E+00	9.10E+00	9.48E+00	9.71E+00	9.85E+00	1.01E+01	1.02E+01	1.04E+01	1.04E+01	1.05E+01	1.06E+01	1.06E+01	1.06E+01			
2.0E-01	3.46E+00	5.69E+00	6.68E+00	7.28E+00	7.68E+00	8.19E+00	8.44E+00	8.81E+00	9.04E+00	9.18E+00	9.40E+00	9.51E+00	9.69E+00	9.77E+00	9.81E+00	9.89E+00	9.92E+00	9.91E+00			
3.0E-01	2.36E+00	4.58E+00	5.50E+00	6.11E+00	6.51E+00	7.02E+00	7.26E+00	7.64E+00	7.86E+00	8.00E+00	8.23E+00	8.33E+00	8.51E+00	8.59E+00	8.63E+00	8.71E+00	8.74E+00	8.74E+00			
4.0E-01	1.73E+00	3.92E+00	4.77E+00	5.38E+00	5.77E+00	6.29E+00	6.53E+00	6.90E+00	7.12E+00	7.26E+00	7.49E+00	7.59E+00	7.77E+00	7.86E+00	7.90E+00	7.98E+00	8.00E+00	8.00E+00			
5.0E-01	1.48E+00	3.61E+00	4.37E+00	4.98E+00	5.37E+00	5.88E+00	6.12E+00	6.49E+00	6.71E+00	6.85E+00	7.07E+00	7.18E+00	7.36E+00	7.44E+00	7.48E+00	7.56E+00	7.59E+00	7.59E+00			
6.0E-01	1.41E+00	3.46E+00	4.12E+00	4.72E+00	5.12E+00	5.63E+00	5.87E+00	6.23E+00	6.45E+00	6.59E+00	6.82E+00	6.92E+00	7.10E+00	7.18E+00	7.22E+00	7.30E+00	7.33E+00	7.33E+00			
7.0E-01	1.41E+00	3.33E+00	3.89E+00	4.50E+00	4.90E+00	5.41E+00	5.65E+00	5.99E+00	6.21E+00	6.36E+00	6.58E+00	6.69E+00	6.86E+00	6.95E+00	6.99E+00	7.07E+00	7.09E+00	7.10E+00			
8.0E-01	1.40E+00	3.18E+00	3.66E+00	4.26E+00	4.66E+00	5.17E+00	5.41E+00	5.75E+00	5.97E+00	6.11E+00	6.34E+00	6.44E+00	6.61E+00	6.70E+00	6.74E+00	6.82E+00	6.84E+00	6.85E+00			
1.0E+00	1.37E+00	2.81E+00	3.13E+00	3.73E+00	4.13E+00	4.63E+00	4.87E+00	5.19E+00	5.41E+00	5.56E+00	5.78E+00	5.88E+00	6.06E+00	6.14E+00	6.18E+00	6.26E+00	6.28E+00	6.29E+00			
1.2E+00	1.34E+00	2.42E+00	2.61E+00	3.22E+00	3.66E+00	4.15E+00	4.35E+00	4.64E+00	4.86E+00	5.00E+00	5.23E+00	5.33E+00	5.50E+00	5.59E+00	5.63E+00	5.71E+00	5.73E+00	5.73E+00			
1.4E+00	1.29E+00	2.05E+00	2.18E+00	2.78E+00	3.18E+00	3.67E+00	3.90E+00	4.16E+00	4.39E+00	4.53E+00	4.75E+00	4.86E+00	5.02E+00	5.11E+00	5.15E+00	5.23E+00	5.25E+00	5.25E+00			
1.6E+00	1.25E+00	1.76E+00	1.85E+00	2.45E+00	2.84E+00	3.32E+00	3.54E+00	3.78E+00	4.00E+00	4.15E+00	4.37E+00	4.47E+00	4.64E+00	4.72E+00	4.76E+00	4.84E+00	4.86E+00	4.86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10-2
0.0
68Er
Σi Ji(Q)
Q

Z=69

Compton profiles for the single orbitals and binding energies

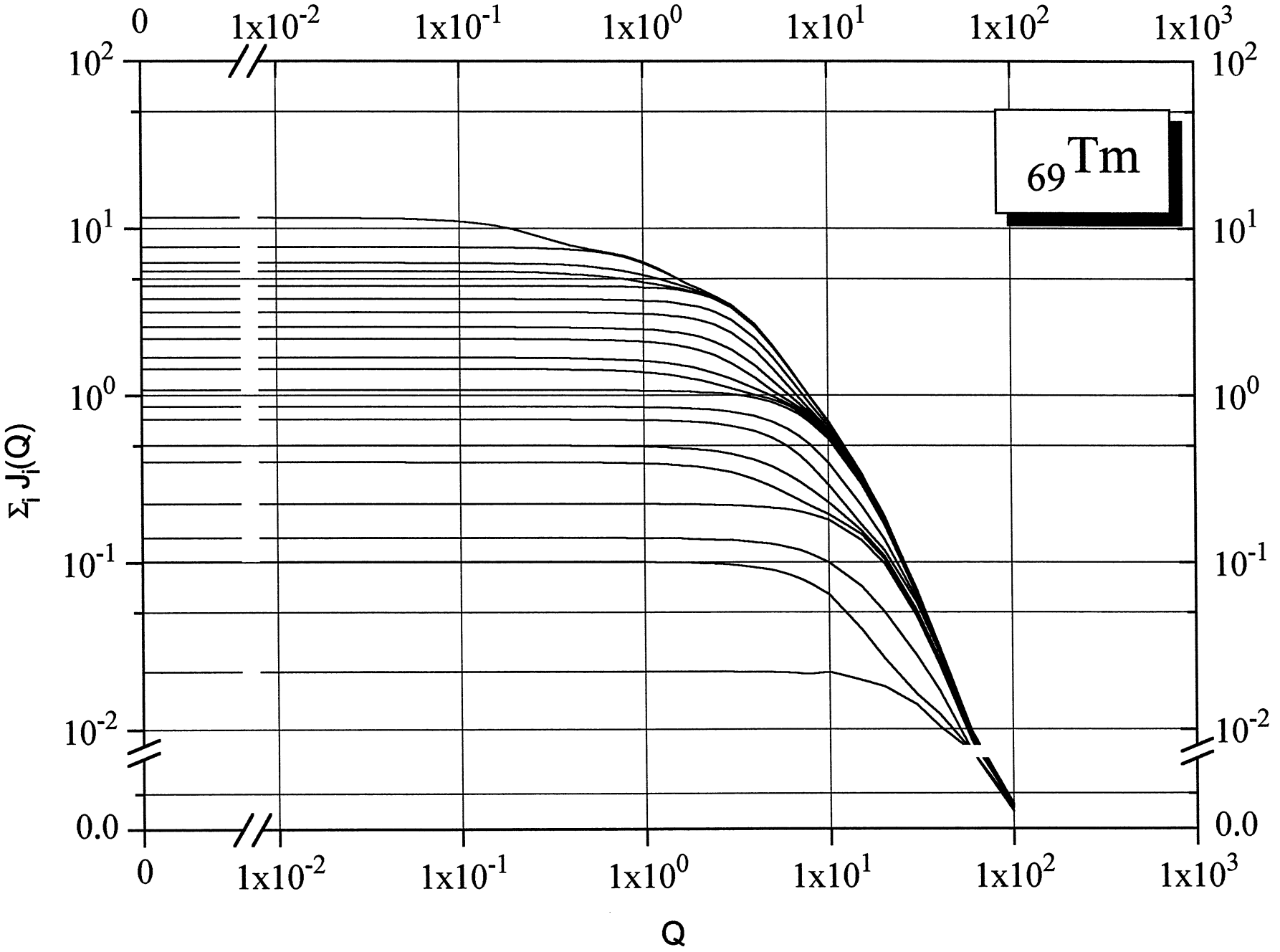
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(7)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	1.11E-02	3.95E-02	1.94E-02	2.11E-02	8.76E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.86E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	5.09E-01	3.47E-01	3.78E-01	1.95E+00	1.17E+01
5.0E-02	1.11E-02	3.95E-02	1.94E-02	2.11E-02	8.76E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.86E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	5.07E-01	3.47E-01	3.78E-01	1.88E+00	1.15E+01
1.0E-01	1.11E-02	3.95E-02	1.94E-02	2.11E-02	8.75E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.86E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	5.03E-01	3.47E-01	3.78E-01	1.69E+00	1.11E+01
1.5E-01	1.11E-02	3.95E-02	1.94E-02	2.11E-02	8.75E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.86E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	4.95E-01	3.47E-01	3.77E-01	1.39E+00	1.05E+01
2.0E-01	1.11E-02	3.95E-02	1.94E-02	2.11E-02	8.74E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.85E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	4.85E-01	3.47E-01	3.77E-01	1.08E+00	9.88E+00
3.0E-01	1.11E-02	3.95E-02	1.94E-02	2.11E-02	8.73E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.83E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	4.56E-01	3.45E-01	3.75E-01	5.37E-01	8.72E+00
4.0E-01	1.11E-02	3.94E-02	1.94E-02	2.11E-02	8.71E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.81E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	4.19E-01	3.41E-01	3.69E-01	2.22E-01	7.98E+00
5.0E-01	1.11E-02	3.94E-02	1.94E-02	2.11E-02	8.68E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.78E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	3.77E-01	3.34E-01	3.59E-01	9.19E-02	7.58E+00
6.0E-01	1.11E-02	3.94E-02	1.94E-02	2.11E-02	8.64E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.75E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	3.31E-01	3.23E-01	3.44E-01	5.54E-02	7.32E+00
7.0E-01	1.11E-02	3.94E-02	1.94E-02	2.11E-02	8.60E-02	5.16E-02	5.45E-02	3.55E-02	3.62E-02	1.71E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	2.84E-01	3.08E-01	3.23E-01	5.03E-02	7.09E+00
8.0E-01	1.11E-02	3.93E-02	1.94E-02	2.11E-02	8.55E-02	5.15E-02	5.45E-02	3.55E-02	3.62E-02	1.66E-01	1.18E-01	1.25E-01	9.75E-02	9.94E-02	1.04E-01	1.07E-01	2.39E-01	2.89E-01	2.98E-01	4.99E-02	6.85E+00
1.0E+00	1.11E-02	3.92E-02	1.94E-02	2.11E-02	8.44E-02	5.15E-02	5.45E-02	3.55E-02	3.62E-02	1.55E-01	1.17E-01	1.24E-01	9.74E-02	9.93E-02	1.04E-01	1.07E-01	1.60E-01	2.43E-01	2.40E-01	4.08E-02	6.31E+00
1.2E+00	1.11E-02	3.91E-02	1.94E-02	2.11E-02	8.30E-02	5.15E-02	5.45E-02	3.55E-02	3.62E-02	1.44E-01	1.16E-01	1.22E-01	9.73E-02	9.92E-02	1.03E-01	1.06E-01	1.02E-01	1.90E-01	1.79E-01	2.62E-02	5.77E+00
1.4E+00	1.11E-02	3.90E-02	1.94E-02	2.11E-02	8.14E-02	5.15E-02	5.44E-02	3.55E-02	3.62E-02	1.31E-01	1.14E-01	1.20E-01	9.70E-02	9.89E-02	1.02E-01	1.04E-01	6.46E-02	1.41E-01	1.25E-01	1.46E-02	5.30E+00
1.6E+00	1.11E-02	3.88E-02	1.94E-02	2.11E-02	7.96E-02	5.14E-02	5.44E-02	3.55E-02	3.62E-02	1.18E-01	1.12E-01	1.17E-01	9.65E-02	9.83E-02	9.98E-02	1.02E-01	4.39E-02	9.88E-02	9.31E-02	7.53E-03	4.91E+00
1.8E+00	1.11E-02	3.87E-02	1.94E-02	2.11E-02	7.76E-02	5.14E-02	5.43E-02	3.55E-02	3.62E-02	1.05E-01	1.09E-01	1.14E-01	9.57E-02	9.75E-02	9.74E-02	9.88E-02	3.44E-02	6.64E-02	5.30E-02	4.01E-03	4.60E+00
2.0E+00	1.11E-02	3.85E-02	1.94E-02	2.11E-02	7.55E-02	5.13E-02	5.42E-02	3.55E-02	3.62E-02	9.17E-02	1.06E-01	1.09E-01	9.46E-02	9.63E-02	9.44E-02	9.55E-02	3.12E-02	4.35E-02	3.34E-02	2.53E-03	4.36E+00
2.4E+00	1.11E-02	3.80E-02	1.94E-02	2.11E-02	7.07E-02	5.10E-02	5.38E-02	3.55E-02	3.62E-02	6.85E-02	9.61E-02	9.76E-02	9.12E-02	9.25E-02	8.75E-02	8.79E-02	3.06E-02	1.94E-02	1.53E-02	1.96E-03	3.98E+00
3.0E+00	1.11E-02	3.73E-02	1.94E-02	2.11E-02	6.28E-02	5.03E-02	5.30E-02	3.55E-02	3.61E-02	4.20E-02	7.83E-02	7.67E-02	8.26E-02	8.32E-02	7.55E-02	7.52E-02	2.59E-02	1.10E-02	1.09E-02	1.80E-03	3.49E+00
4.0E+00	1.10E-02	3.56E-02	1.94E-02	2.11E-02	4.88E-02	4.82E-02	5.03E-02	3.53E-02	3.60E-02	2.11E-02	4.68E-02	4.26E-02	6.17E-02	6.11E-02	5.56E-02	5.47E-02	1.10E-02	1.01E-02	9.43E-03	8.13E-04	2.69E+00
5.0E+00	1.10E-02	3.37E-02	1.93E-02	2.10E-02	3.57E-02	4.47E-02	4.60E-02	3.49E-02	3.55E-02	1.72E-02	2.36E-02	2.02E-02	3.97E-02	3.86E-02	3.90E-02	3.80E-02	3.87E-03	6.39E-03	5.14E-03	2.64E-04	2.00E+00
6.0E+00	1.09E-02	3.14E-02	1.92E-02	2.09E-02	2.48E-02	4.00E-02	4.02E-02	3.41E-02	3.46E-02	1.69E-02	1.18E-02	1.03E-02	2.27E-02	2.16E-02	2.66E-02	2.57E-02	2.67E-03	2.98E-03	2.17E-03	1.60E-04	1.52E+00
7.0E+00	1.08E-02	2.90E-02	1.91E-02	2.07E-02	1.68E-02	3.43E-02	3.37E-02	3.28E-02	3.32E-02	1.49E-02	7.64E-03	7.57E-03	1.20E-02	1.12E-02	1.78E-02	1.71E-02	2.61E-03	1.35E-03	1.04E-03	1.56E-04	1.20E+00
8.0E+00	1.07E-02	2.64E-02	1.89E-02	2.04E-02	1.16E-02	2.84E-02	2.70E-02	3.09E-02	3.12E-02	1.13E-02	6.90E-03	7.32E-03	6.32E-03	5.89E-03	1.18E-02	1.13E-02	2.23E-03	8.61E-04	8.03E-04	1.35E-04	9.79E-01
1.0E+01	1.10E-02	2.10E-02	1.80E-02	2.00E-02	7.20E-03	1.70E-02	1.60E-02	2.60E-02	2.60E-02	4.80E-03	6.50E-03	6.40E-03	2.90E-03	2.90E-03	5.20E-03	4.90E-03	1.00E-03	7.90E-04	7.50E-04	6.30E-05	7.00E-01
1.5E+01	9.80E-03	1.00E-02	1.60E-02	1.60E-02	6.20E-03	3.70E-03	3.20E-03	1.30E-02	1.30E-02	1.60E-03	1.80E-03	1.40E-03	2.40E-03	2.30E-03	6.80E-04	6.40E-04	2.30E-04	2.60E-04	1.80E-04	1.40E-05	3.40E-01
2.0E+01	9.00E-03	4.20E-03	1.20E-02	1.20E-02	3.50E-03	1.90E-03	2.10E-03	5.20E-03	4.90E-03	1.10E-03	4.40E-04	4.50E-04	1.20E-03	1.10E-03	1.10E-04	9.90E-05	1.70E-04	5.50E-05	5.00E-05	1.00E-05	1.90E-01
3.0E+01	7.00E-03	1.10E-03	5.70E-03	5.00E-03	4.40E-04	1.50E-03	1.50E-03	7.50E-04	6.70E-04	1.40E-04	3.40E-04	3.40E-04	1.90E-04	1.70E-04	4.70E-06	4.20E-06	2.10E-05	4.00E-05	3.80E-05	1.30E-06	6.80E-02
4.0E+01	5.20E-03	9.70E-04	2.40E-03	1.80E-03	2.10E-04	7.10E-04	5.90E-04	1.30E-04	1.10E-04	4.80E-05	1.70E-04	1.40E-04	3.20E-05	2.70E-05	3.70E-07	3.20E-07	7.10E-06	2.00E-05	1.60E-05	4.20E-07	3.10E-02
6.0E+01	2.60E-03	6.20E-04	4.40E-04	2.70E-04	1.50E-04	1.30E-04	8.30E-05	6.90E-06	5.20E-06	3.60E-05	3.10E-05	2.00E-05	1.70E-06	1.30E-06	7.10E-09	5.60E-09	5.20E-06	3.70E-06	2.20E-06	3.10E-07	9.50E-03
1.0E+02	6.20E-04	1.30E-04	3.20E-05	1.30E-05	3.10E-05	8.70E-06	3.70E-06	1.20E-07	7.10E-08	7.50E-06	2.00E-06	8.60E-07	2.80E-08	1.70E-08	4.00E-11	2.60E-11	1.10E-06	2.40E-07	9.60E-08	6.50E-08	1.70E-03
E[keV]:	5.94E+01	1.01E+01	9.62E+00	8.65E+00	2.31E+00	2.09E+00	1.88E+00	1.51E+00	1.47E+00	4.70E-01	3.82E-01	3.33E-01	1.80E-01	1.76E-01	0.00E+00	0.00E+00	5.10E-02	3.00E-02	3.00E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(7)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	2.22E-02	1.01E-01	1.40E-01	2.24E-01	4.00E-01	5.03E-01	7.21E-01	8.63E-01	1.08E+00	1.45E+00	1.69E+00	2.19E+00	2.58E+00	3.17E+00	3.80E+00	4.55E+00	5.57E+00	6.26E+00	7.77E+00	1.17E+01	1.17E+01
5.0E-02	2.22E-02	1.01E-01	1.40E-01	2.24E-01	4.00E-01	5.03E-01	7.21E-01	8.63E-01	1.08E+00	1.45E+00	1.69E+00	2.19E+00	2.58E+00	3.17E+00	3.80E+00	4.55E+00	5.56E+00	6.26E+00	7.77E+00	1.15E+01	1.15E+01
1.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.99E-01	5.03E-01	7.21E-01	8.63E-01	1.08E+00	1.45E+00	1.69E+00	2.19E+00	2.58E+00	3.17E+00	3.80E+00	4.55E+00	5.55E+00	6.25E+00	7.76E+00	1.11E+01	1.11E+01
1.5E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.99E-01	5.03E-01	7.21E-01	8.63E-01	1.08E+00	1.45E+00	1.69E+00	2.19E+00	2.58E+00	3.17E+00	3.80E+00	4.55E+00	5.54E+00	6.23E+00	7.74E+00	1.05E+01	1.05E+01
2.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.99E-01	5.02E-01	7.20E-01	8.62E-01	1.08E+00	1.45E+00	1.69E+00	2.19E+00	2.58E+00	3.17E+00	3.80E+00	4.55E+00	5.52E+00	6.21E+00	7.72E+00	9.88E+00	9.88E+00
3.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.99E-01	5.02E-01	7.20E-01	8.62E-01	1.08E+00	1.45E+00	1.68E+00	2.18E+00	2.57E+00	3.17E+00	3.79E+00	4.54E+00	5.45E+00	6.14E+00	7.64E+00	8.72E+00	8.72E+00
4.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.98E-01	5.02E-01	7.20E-01	8.62E-01	1.08E+00	1.44E+00	1.68E+00	2.18E+00	2.57E+00	3.16E+00	3.79E+00	4.54E+00	5.37E+00	6.06E+00	7.53E+00	7.98E+00	7.98E+00
5.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.98E-01	5.01E-01	7.19E-01	8.61E-01	1.08E+00	1.43E+00	1.67E+00	2.17E+00	2.56E+00	3.16E+00	3.78E+00	4.53E+00	5.28E+00	5.95E+00	7.39E+00	7.57E+00	7.58E+00
6.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.97E-01	5.00E-01	7.18E-01	8.60E-01	1.08E+00	1.43E+00	1.66E+00	2.16E+00	2.55E+00	3.15E+00	3.77E+00	4.52E+00	5.18E+00	5.83E+00	7.21E+00	7.32E+00	7.32E+00
7.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.96E-01	4.99E-01	7.17E-01	8.59E-01	1.08E+00	1.42E+00	1.65E+00	2.15E+00	2.54E+00	3.14E+00	3.76E+00	4.51E+00	5.08E+00	5.70E+00	6.99E+00	7.09E+00	7.09E+00
8.0E-01	2.22E-02	1.01E-01	1.40E-01	2.24E-01	3.95E-01	4.98E-01	7.16E-01	8.58E-01	1.08E+00	1.41E+00	1.64E+00	2.14E+00	2.53E+00	3.13E+00	3.75E+00	4.50E+00	4.98E+00	5.56E+00	6.75E+00	6.85E+00	6.85E+00
1.0E+00	2.22E-02	1.01E-01	1.39E-01	2.24E-01	3.93E-01	4.96E-01	7.14E-01	8.56E-01	1.07E+00	1.38E+00	1.62E+00	2.11E+00	2.50E+00	3.10E+00	3.72E+00	4.47E+00	4.79E+00	5.28E+00	6.24E+00	6.32E+00	6.31E+00
1.2E+00	2.22E-02	1.00E-01	1.39E-01	2.24E-01	3.90E-01	4.93E-01	7.11E-01	8.53E-01	1.07E+00	1.36E+00	1.59E+00	2.08E+00	2.47E+00	3.06E+00	3.68E+00	4.42E+00	4.63E+00	5.01E+00	5.72E+00	5.77E+00	5.77E+00
1.4E+00	2.22E-02	1.00E-01	1.39E-01	2.23E-01	3.86E-01	4.89E-01	7.07E-01	8.49E-01	1.07E+00	1.33E+00	1.56E+00	2.04E+00	2.42E+00	3.02E+00	3.63E+00	4.36E+00	4.49E+00	4.77E+00	5.27E+00	5.30E+00	5.30E+00
1.6E+00	2.22E-02	9.98E-02	1.39E-01	2.23E-01	3.82E-01	4.85E-01	7.03E-01	8.45E-01	1.06E+00	1.30E+00	1.52E+00	1.99E+00	2.38E+00	2.97E+00	3.56E+00	4.28E+00	4.37E+00	4.56E+00	4.90E+00	4.91E+00	4.91E+00
1.8E+00	2.22E-02	9.96E-02	1.38E-01	2.23E-01	3.78E-01	4.81E-01	6.98E-01	8.40E-01	1.06E+00	1.27E+00	1.49E+00	1.94E+00	2.32E+00	2.91E+00	3.49E+00	4.19E+00	4.25E+00	4.39E+00	4.60E+00	4.61E+00	4.60E+00
2.0E+00	2.22E-02	9.92E-02	1.38E-01	2.22E-01	3.73E-01	4.76E-01	6.93E-01	8.35E-01	1.05E+00	1.24E+00	1.45E+00	1.88E+00	2.26E+00	2.84E+00	3.41E+00	4.07E+00	4.14E+00	4.22E+00	4.36E+00	4.36E+00	4.36E+00
2.4E+00	2.22E-02	9.82E-02	1.37E-01	2.21E-01	3.63E-01	4.65E-01	6.80E-01	8.22E-01	1.04E+00	1.18E+00	1.37E+00	1.76E+00	2.12E+00	2.68E+00	3.20E+00	3.82E+00	3.88E+00	3.92E+00	3.98E+00	3.98E+00	3.98E+00
3.0E+00	2.22E-02	9.68E-02	1.36E-01	2.20E-01	3.46E-01	4.46E-01	6.58E-01	8.00E-01	1.02E+00	1.10E+00	1.26E+00	1.56E+00	1.89E+00	2.39E+00	2.85E+00	3.37E+00	3.43E+00	3.45E+00	3.49E+00	3.49E+00	3.49E+00
4.0E+00	2.20E-02	9.32E-02	1.32E-01	2.16E-01	3.14E-01	4.10E-01	6.12E-01	7.53E-01	9.69E-01	1.01E+00	1.10E+00	1.28E+00	1.52E+00	1.89E+00	2.22E+00	2.60E+00	2.63E+00	2.65E+00	2.68E+00	2.69E+00	2.69E+00
5.0E+00	2.20E-02	8.94E-02	1.28E-01	2.12E-01	2.83E-01	3.73E-01	5.57E-01	6.96E-01	9.09E-01	9.44E-01	9.91E-01	1.07E+00	1.23E+00	1.46E+00	1.70E+00	1.96E+00	1.97E+00	1.98E+00	2.00E+00	2.00E+00	2.00E+00
6.0E+00	2.18E-02	8.46E-02	1.23E-01	2.07E-01	2.56E-01	3.36E-01	4.97E-01	6.33E-01	8.41E-01	8.75E-01	8.98E-01	9.40E-01	1.03E+00	1.16E+00	1.32E+00	1.50E+00	1.50E+00	1.51E+00	1.52E+00	1.52E+00	1.52E+00
7.0E+00	2.16E-02	7.96E-02	1.18E-01	2.01E-01	2.34E-01	3.03E-01	4.38E-01	5.69E-01	7.68E-01	7.98E-01	8.13E-01	8.43E-01	8.91E-01	9.59E-01	1.07E+00	1.19E+00	1.19E+00	1.19E+00	1.20E+00	1.20E+00	1.20E+00
8.0E+00	2.14E-02	7.42E-02	1.12E-01	1.94E-01	2.17E-01	2.74E-01	3.82E-01	5.05E-01	6.92E-01	7.15E-01	7.29E-01	7.58E-01	7.83E-01	8.19E-01	8.90E-01	9.69E-01	9.73E-01	9.75E-01	9.78E-01	9.79E-01	9.79E-01
1.0E+01	2.20E-02	6.40E-02	1.00E-01	1.80E-01	1.94E-01	2.28E-01	2.92E-01	3.96E-01	5.52E-01	5.75E-01	5.82E-01	6.01E-01	6.30E-01	6.42E-01	6.61E-01	6.95E-01	6.97E-01	6.99E-01	7.02E-01	7.02E-01	7.00E-01
1.5E+01	1.96E-02	3.96E-02	7.16E-02	1.36E-01	1.48E-01	1.55E-01	1.68E-01	2.20E-01	2.98E-01	3.01E-01	3.05E-01	3.11E-01	3.20E-01	3.34E-01	3.38E-01	3.43E-01	3.43E-01	3.44E-01	3.44E-01	3.44E-01	3.40E-01
2.0E+01	1.80E-02	2.64E-02	5.04E-02	9.84E-02	1.05E-01	1.09E-01	1.18E-01	1.38E-01	1.68E-01	1.70E-01	1.71E-01	1.73E-01	1.77E-01	1.84E-01	1.85E-01	1.85E-01	1.86E-01	1.86E-01	1.86E-01	1.86E-01	1.90E-01
3.0E+01	1.40E-02	1.62E-02	2.76E-02	4.76E-02	4.85E-02	5.15E-02	5.75E-02	6.05E-02	6.45E-02	6.48E-02	6.55E-02	6.66E-02	6.76E-02	6.86E-02	6.86E-02	6.87E-02	6.87E-02	6.88E-02	6.89E-02	6.89E-02	6.80E-02
4.0E+01	1.04E-02	1.23E-02	1.71E-02	2.43E-02	2.48E-02	2.62E-02	2.85E-02	2.91E-02	2.97E-02	2.98E-02	3.02E-02	3.07E-02	3.08E-02	3.10E-02	3.10E-02	3.10E-02	3.10E-02	3.11E-02	3.11E-02	3.11E-02	3.10E-02
6.0E+01	5.20E-03	6.44E-03	7.32E-03	8.40E-03	8.70E-03	8.96E-03	9.29E-03	9.32E-03	9.35E-03	9.42E-03	9.48E-03	9.56E-03	9.57E-03	9.58E-03	9.58E-03	9.58E-03	9.59E-03	9.60E-03	9.61E-03	9.61E-03	9.50E-03
1.0E+02	1.24E-03	1.50E-03	1.56E-03	1.62E-03	1.68E-03	1.70E-03	1.71E-03	1.71E-03	1.71E-03	1.73E-03	1.73E-03	1.73E-03	1.73E-03	1.73E-03	1.73E-03	1.73E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.70E-03
E[keV]:	5.94E+01	1.01E+01	9.62E+00	8.65E+00	2.31E+00	2.09E+00	1.88E+00	1.51E+00	1.47E+00	4.70E-01	3.82E-01	3.33E-01	1.80E-01	1.76E-01	0.00E+00	0.00E+00	5.10E-02	3.00E-02	3.00E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	5.27E+00	7.48E+00	8.50E+00	9.09E+00	9.48E+00	9.98E+00	1.02E+01	1.06E+01	1.08E+01	1.10E+01	1.12E+01	1.13E+01	1.14E+01	1.15E+01	1.16E+01	1.16E+01	1.17E+01	1.17E+01			
5.0E-02	5.13E+00	7.34E+00	8.35E+00	8.95E+00	9.34E+00	9.84E+00	1.01E+01	1.04E+01	1.07E+01	1.08E+01	1.10E+01	1.11E+01	1.13E+01	1.14E+01	1.14E+01	1.15E+01	1.15E+01	1.15E+01			
1.0E-01	4.73E+00	6.94E+00	7.95E+00	8.54E+00	8.93E+00	9.43E+00	9.67E+00	1.00E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.09E+01	1.10E+01	1.10E+01	1.11E+01	1.11E+01	1.11E+01			
1.5E-01	4.15E+00	6.36E+00	7.35E+00	7.94E+00	8.33E+00	8.83E+00	9.07E+00	9.44E+00	9.66E+00	9.80E+00	1.00E+01	1.01E+01	1.03E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01			
2.0E-01	3.53E+00	5.74E+00	6.71E+00	7.30E+00	7.69E+00	8.19E+00	8.43E+00	8.80E+00	9.01E+00	9.16E+00	9.37E+00	9.48E+00	9.65E+00	9.74E+00	9.78E+00	9.85E+00	9.88E+00	9.88E+00			
3.0E-01	2.45E+00	4.64E+00	5.55E+00	6.15E+00	6.54E+00	7.04E+00	7.27E+00	7.64E+00	7.85E+00	8.00E+00	8.21E+00	8.32E+00	8.49E+00	8.58E+00	8.62E+00	8.69E+00	8.72E+00	8.72E+00			
4.0E-01	1.82E+00	3.98E+00	4.81E+00	5.41E+00	5.80E+00	6.30E+00	6.54E+00	6.90E+00	7.11E+00	7.26E+00	7.47E+00	7.58E+00	7.75E+00	7.84E+00	7.88E+00	7.95E+00	7.98E+00	7.98E+00			
5.0E-01	1.56E+00	3.66E+00	4.41E+00	5.01E+00	5.40E+00	5.90E+00	6.14E+00	6.49E+00	6.71E+00	6.85E+00	7.07E+00	7.17E+00	7.35E+00	7.43E+00	7.47E+00	7.55E+00	7.57E+00	7.58E+00			
6.0E-01	1.48E+00	3.51E+00	4.17E+00	4.76E+00	5.15E+00	5.65E+00	5.89E+00	6.24E+00	6.46E+00	6.60E+00	6.82E+00	6.92E+00	7.09E+00	7.18E+00	7.22E+00	7.30E+00	7.32E+00	7.32E+00			
7.0E-01	1.47E+00	3.38E+00	3.95E+00	4.55E+00	4.94E+00	5.44E+00	5.67E+00	6.01E+00	6.23E+00	6.37E+00	6.59E+00	6.69E+00	6.87E+00	6.95E+00	6.99E+00	7.07E+00	7.09E+00	7.09E+00			
8.0E-01	1.47E+00	3.24E+00	3.72E+00	4.32E+00	4.71E+00	5.21E+00	5.44E+00	5.78E+00	5.99E+00	6.13E+00	6.35E+00	6.46E+00	6.63E+00	6.71E+00	6.75E+00	6.83E+00	6.85E+00	6.85E+00			
1.0E+00	1.45E+00	2.90E+00	3.22E+00	3.82E+00	4.21E+00	4.70E+00	4.94E+00	5.25E+00	5.46E+00	5.61E+00	5.82E+00	5.93E+00	6.09E+00	6.18E+00	6.22E+00	6.30E+00	6.32E+00	6.31E+00			
1.2E+00	1.41E+00	2.51E+00	2.71E+00	3.31E+00	3.70E+00	4.18E+00	4.42E+00	4.70E+00	4.92E+00	5.06E+00	5.28E+00	5.39E+00	5.55E+00	5.64E+00	5.67E+00	5.75E+00	5.77E+00	5.77E+00			
1.4E+00	1.37E+00	2.15E+00	2.28E+00	2.87E+00	3.26E+00	3.74E+00	3.97E+00	4.23E+00	4.45E+00	4.59E+00	4.81E+00	4.91E+00	5.07E+00	5.16E+00	5.20E+00	5.28E+00	5.30E+00	5.30E+00			
1.6E+00	1.33E+00	1.86E+00	1.95E+00	2.54E+00	2.92E+00	3.39E+00	3.61E+00	3.85E+00	4.07E+00	4.21E+00	4.43E+00	4.53E+00	4.69E+00	4.77E+00	4.81E+00	4.89E+00	4.91E+00	4.91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10-2
0.0
69Tm
Σi Ji(Q)
Q

Z=70

Compton profiles for the single orbitals and binding energies

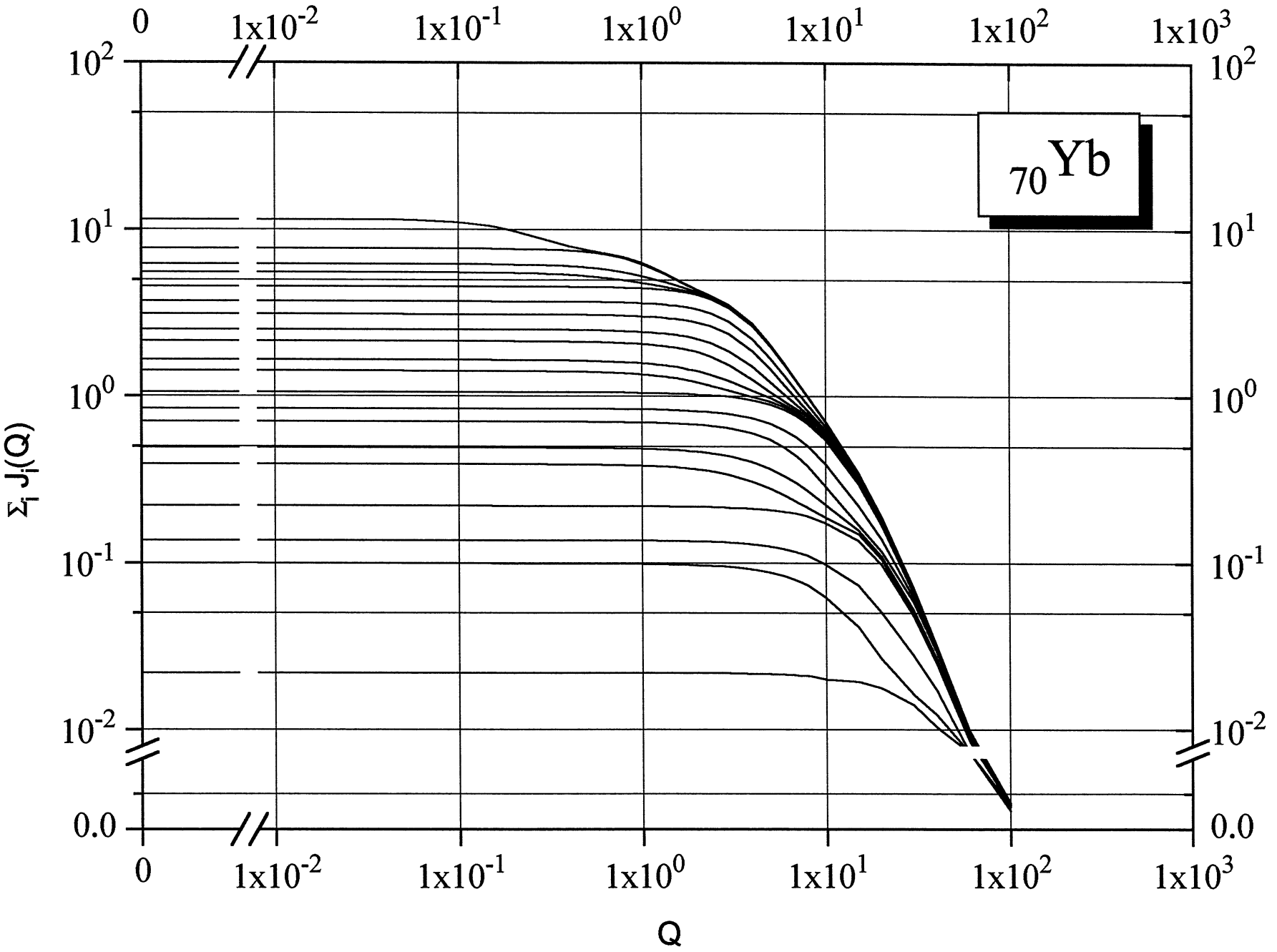
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	1.09E-02	3.88E-02	1.90E-02	2.08E-02	8.59E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.83E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	5.01E-01	3.42E-01	3.73E-01	1.94E+00	1.16E+01
5.0E-02	1.09E-02	3.88E-02	1.90E-02	2.08E-02	8.59E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.83E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	4.99E-01	3.42E-01	3.73E-01	1.87E+00	1.15E+01
1.0E-01	1.09E-02	3.88E-02	1.90E-02	2.08E-02	8.58E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.82E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	4.95E-01	3.42E-01	3.73E-01	1.67E+00	1.11E+01
1.5E-01	1.09E-02	3.88E-02	1.90E-02	2.08E-02	8.58E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.82E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	4.88E-01	3.42E-01	3.72E-01	1.39E+00	1.05E+01
2.0E-01	1.09E-02	3.87E-02	1.90E-02	2.08E-02	8.57E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.81E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	4.78E-01	3.41E-01	3.72E-01	1.08E+00	9.85E+00
3.0E-01	1.09E-02	3.87E-02	1.90E-02	2.08E-02	8.56E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.80E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	4.51E-01	3.40E-01	3.70E-01	5.45E-01	8.71E+00
4.0E-01	1.09E-02	3.87E-02	1.90E-02	2.08E-02	8.54E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.78E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	4.15E-01	3.36E-01	3.64E-01	2.28E-01	7.97E+00
5.0E-01	1.09E-02	3.87E-02	1.90E-02	2.08E-02	8.51E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.75E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	3.74E-01	3.30E-01	3.55E-01	9.43E-02	7.56E+00
6.0E-01	1.09E-02	3.87E-02	1.90E-02	2.08E-02	8.48E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.72E-01	1.16E-01	1.23E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	3.30E-01	3.20E-01	3.40E-01	5.51E-02	7.31E+00
7.0E-01	1.09E-02	3.86E-02	1.90E-02	2.08E-02	8.44E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.68E-01	1.15E-01	1.22E-01	9.54E-02	9.74E-02	1.02E-01	1.05E-01	2.85E-01	3.05E-01	3.21E-01	4.89E-02	7.09E+00
8.0E-01	1.09E-02	3.86E-02	1.90E-02	2.08E-02	8.39E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.63E-01	1.15E-01	1.22E-01	9.54E-02	9.74E-02	1.02E-01	1.04E-01	2.41E-01	2.87E-01	2.97E-01	4.86E-02	6.86E+00
1.0E+00	1.09E-02	3.85E-02	1.90E-02	2.08E-02	8.28E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.53E-01	1.15E-01	1.21E-01	9.54E-02	9.73E-02	1.02E-01	1.04E-01	1.63E-01	2.43E-01	2.40E-01	4.06E-02	6.34E+00
1.2E+00	1.09E-02	3.84E-02	1.90E-02	2.08E-02	8.15E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.42E-01	1.14E-01	1.20E-01	9.53E-02	9.72E-02	1.01E-01	1.03E-01	1.05E-01	1.92E-01	1.81E-01	2.66E-02	5.81E+00
1.4E+00	1.09E-02	3.83E-02	1.90E-02	2.08E-02	8.00E-02	5.05E-02	5.35E-02	3.48E-02	3.55E-02	1.30E-01	1.12E-01	1.18E-01	9.50E-02	9.69E-02	9.96E-02	1.02E-01	6.69E-02	1.44E-01	1.28E-01	1.51E-02	5.34E+00
1.6E+00	1.09E-02	3.81E-02	1.90E-02	2.08E-02	7.83E-02	5.04E-02	5.34E-02	3.48E-02	3.55E-02	1.17E-01	1.10E-01	1.16E-01	9.46E-02	9.64E-02	9.78E-02	9.95E-02	4.50E-02	1.02E-01	8.61E-02	7.93E-03	4.95E+00
1.8E+00	1.09E-02	3.80E-02	1.90E-02	2.08E-02	7.65E-02	5.04E-02	5.33E-02	3.48E-02	3.55E-02	1.05E-01	1.08E-01	1.12E-01	9.39E-02	9.57E-02	9.55E-02	9.69E-02	3.46E-02	6.95E-02	5.55E-02	4.21E-03	4.65E+00
2.0E+00	1.09E-02	3.78E-02	1.90E-02	2.08E-02	7.44E-02	5.03E-02	5.32E-02	3.48E-02	3.55E-02	9.23E-02	1.04E-01	1.08E-01	9.29E-02	9.46E-02	9.28E-02	9.39E-02	3.08E-02	4.59E-02	3.52E-02	2.58E-03	4.40E+00
2.4E+00	1.09E-02	3.74E-02	1.90E-02	2.08E-02	6.99E-02	5.00E-02	5.29E-02	3.48E-02	3.55E-02	6.96E-02	9.54E-02	9.71E-02	8.98E-02	9.11E-02	8.63E-02	8.68E-02	2.99E-02	2.05E-02	1.58E-02	1.88E-03	4.03E+00
3.0E+00	1.09E-02	3.67E-02	1.90E-02	2.08E-02	6.24E-02	4.94E-02	5.21E-02	3.48E-02	3.55E-02	4.32E-02	7.85E-02	7.72E-02	8.19E-02	8.26E-02	7.50E-02	7.48E-02	2.60E-02	1.09E-02	1.06E-02	1.76E-03	3.54E+00
4.0E+00	1.08E-02	3.51E-02	1.90E-02	2.07E-02	4.89E-02	4.75E-02	4.96E-02	3.47E-02	3.53E-02	2.15E-02	4.81E-02	4.40E-02	6.23E-02	6.17E-02	5.59E-02	5.52E-02	1.16E-02	9.99E-03	9.41E-03	8.46E-04	2.75E+00
5.0E+00	1.08E-02	3.32E-02	1.89E-02	2.07E-02	3.61E-02	4.42E-02	4.56E-02	3.43E-02	3.49E-02	1.69E-02	2.49E-02	2.13E-02	4.10E-02	3.98E-02	3.97E-02	3.89E-02	4.09E-03	6.60E-03	5.35E-03	2.78E-04	2.06E+00
6.0E+00	1.07E-02	3.11E-02	1.89E-02	2.06E-02	2.54E-02	3.98E-02	4.02E-02	3.35E-02	3.41E-02	1.67E-02	1.24E-02	1.07E-02	2.39E-02	2.28E-02	2.74E-02	2.67E-02	2.63E-03	3.20E-03	2.32E-03	1.56E-04	1.57E+00
7.0E+00	1.06E-02	2.87E-02	1.87E-02	2.04E-02	1.74E-02	3.45E-02	3.39E-02	3.23E-02	3.28E-02	1.51E-02	7.78E-03	7.58E-03	1.29E-02	1.20E-02	1.86E-02	1.80E-02	2.57E-03	1.44E-03	1.08E-03	1.50E-04	1.23E+00
8.0E+00	1.05E-02	2.63E-02	1.86E-02	2.01E-02	1.20E-02	2.87E-02	2.75E-02	3.06E-02	3.10E-02	1.17E-02	6.80E-03	7.20E-03	6.85E-03	6.37E-03	1.25E-02	1.20E-02	2.25E-03	8.71E-04	7.92E-04	1.34E-04	1.00E+00
1.0E+01	1.00E-02	2.10E-02	1.80E-02	1.90E-02	7.20E-03	1.80E-02	1.60E-02	2.60E-02	2.60E-02	5.10E-03	6.50E-03	6.50E-03	3.00E-03	2.90E-03	5.60E-03	5.30E-03	1.10E-03	7.70E-04	7.40E-04	6.60E-05	7.10E-01
1.5E+01	9.70E-03	1.10E-02	1.60E-02	1.60E-02	6.20E-03	3.90E-03	3.30E-03	1.30E-02	1.30E-02	1.50E-03	2.00E-03	1.50E-03	2.40E-03	2.40E-03	7.70E-04	7.20E-04	2.30E-04	2.80E-04	2.00E-04	1.30E-05	3.50E-01
2.0E+01	8.90E-03	4.40E-03	1.20E-02	1.20E-02	3.70E-03	1.90E-03	2.10E-03	5.50E-03	5.20E-03	1.20E-03	4.60E-04	4.50E-04	1.30E-03	1.20E-03	1.20E-04	1.10E-04	1.80E-04	5.80E-05	5.00E-05	1.00E-05	1.90E-01
3.0E+01	7.00E-03	1.10E-03	5.80E-03	5.10E-03	4.90E-04	1.50E-03	1.50E-03	8.20E-04	7.30E-04	1.50E-04	3.40E-04	3.50E-04	2.10E-04	1.80E-04	5.60E-06	5.00E-06	2.40E-05	4.00E-05	3.80E-05	1.40E-06	7.10E-02
4.0E+01	5.20E-03	9.50E-04	2.50E-03	1.90E-03	2.00E-04	7.40E-04	6.20E-04	1.40E-04	1.20E-04	4.80E-05	1.80E-04	1.50E-04	3.60E-06	3.00E-05	4.40E-07	3.80E-07	7.00E-06	2.10E-05	1.70E-05	4.10E-07	3.20E-02
6.0E+01	2.60E-03	6.30E-04	4.80E-04	2.90E-04	1.50E-04	1.40E-04	9.00E-05	7.80E-06	5.90E-06	3.60E-05	3.30E-05	2.20E-05	1.90E-06	1.40E-06	8.70E-09	6.90E-09	5.30E-06	4.00E-06	2.40E-06	3.10E-07	9.90E-03
1.0E+02	6.50E-04	1.40E-04	3.60E-05	1.40E-05	3.30E-05	9.70E-06	4.10E-06	1.40E-07	8.10E-08	8.00E-06	2.30E-06	9.60E-07	3.30E-08	1.90E-08	4.90E-11	3.20E-11	1.20E-06	2.70E-07	1.10E-07	6.80E-08	1.80E-03
E[keV]:	6.13E+01	1.05E+01	9.98E+00	8.94E+00	2.40E+00	2.17E+00	1.95E+00	1.58E+00	1.53E+00	4.87E-01	3.99E-01	3.46E-01	1.89E-01	1.85E-01	0.00E+00	0.00E+00	5.30E-02	2.30E-02	2.30E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	Total
0.0E+00	2.18E-02	9.94E-02	1.37E-01	2.21E-01	3.92E-01	4.93E-01	7.07E-01	8.47E-01	1.06E+00	1.43E+00	1.66E+00	2.15E+00	2.53E+00	3.12E+00	3.73E+00	4.57E+00	5.57E+00	6.25E+00	7.75E+00	1.16E+01	1.16E+01
5.0E-02	2.18E-02	9.94E-02	1.37E-01	2.21E-01	3.92E-01	4.93E-01	7.07E-01	8.47E-01	1.06E+00	1.43E+00	1.66E+00	2.15E+00	2.53E+00	3.12E+00	3.73E+00	4.57E+00	5.57E+00	6.25E+00	7.74E+00	1.15E+01	1.15E+01
1.0E-01	2.18E-02	9.94E-02	1.37E-01	2.21E-01	3.92E-01	4.93E-01	7.07E-01	8.46E-01	1.06E+00	1.42E+00	1.66E+00	2.15E+00	2.53E+00	3.11E+00	3.73E+00	4.57E+00	5.56E+00	6.24E+00	7.73E+00	1.11E+01	1.11E+01
1.5E-01	2.18E-02	9.94E-02	1.37E-01	2.21E-01	3.92E-01	4.93E-01	7.07E-01	8.46E-01	1.06E+00	1.42E+00	1.66E+00	2.15E+00	2.53E+00	3.11E+00	3.73E+00	4.57E+00	5.54E+00	6.23E+00	7.71E+00	1.05E+01	1.05E+01
2.0E-01	2.18E-02	9.92E-02	1.37E-01	2.20E-01	3.92E-01	4.93E-01	7.07E-01	8.46E-01	1.06E+00	1.42E+00	1.65E+00	2.15E+00	2.53E+00	3.11E+00	3.72E+00	4.56E+00	5.52E+00	6.20E+00	7.69E+00	9.85E+00	9.85E+00
3.0E-01	2.18E-02	9.92E-02	1.37E-01	2.20E-01	3.92E-01	4.93E-01	7.07E-01	8.46E-01	1.06E+00	1.42E+00	1.65E+00	2.14E+00	2.52E+00	3.11E+00	3.72E+00	4.56E+00	5.46E+00	6.14E+00	7.62E+00	8.71E+00	8.71E+00
4.0E-01	2.18E-02	9.92E-02	1.37E-01	2.20E-01	3.91E-01	4.92E-01	7.06E-01	8.45E-01	1.06E+00	1.41E+00	1.65E+00	2.14E+00	2.52E+00	3.10E+00	3.72E+00	4.56E+00	5.39E+00	6.06E+00	7.51E+00	7.97E+00	7.97E+00
5.0E-01	2.18E-02	9.92E-02	1.37E-01	2.20E-01	3.91E-01	4.92E-01	7.06E-01	8.45E-01	1.06E+00	1.41E+00	1.64E+00	2.13E+00	2.51E+00	3.10E+00	3.71E+00	4.55E+00	5.30E+00	5.96E+00	7.38E+00	7.57E+00	7.56E+00
6.0E-01	2.18E-02	9.92E-02	1.37E-01	2.20E-01	3.90E-01	4.91E-01	7.05E-01	8.44E-01	1.06E+00	1.40E+00	1.63E+00	2.12E+00	2.51E+00	3.09E+00	3.70E+00	4.54E+00	5.20E+00	5.84E+00	7.20E+00	7.31E+00	7.31E+00
7.0E-01	2.18E-02	9.90E-02	1.37E-01	2.20E-01	3.89E-01	4.90E-01	7.04E-01	8.43E-01	1.06E+00	1.39E+00	1.62E+00	2.11E+00	2.49E+00	3.08E+00	3.69E+00	4.53E+00	5.10E+00	5.71E+00	6.99E+00	7.09E+00	7.09E+00
8.0E-01	2.18E-02	9.90E-02	1.37E-01	2.20E-01	3.88E-01	4.89E-01	7.03E-01	8.42E-01	1.06E+00	1.38E+00	1.61E+00	2.10E+00	2.48E+00	3.07E+00	3.68E+00	4.51E+00	4.99E+00	5.57E+00	6.75E+00	6.85E+00	6.86E+00
1.0E+00	2.18E-02	9.88E-02	1.37E-01	2.20E-01	3.86E-01	4.87E-01	7.01E-01	8.40E-01	1.05E+00	1.36E+00	1.59E+00	2.07E+00	2.45E+00	3.04E+00	3.65E+00	4.48E+00	4.81E+00	5.29E+00	6.25E+00	6.34E+00	6.34E+00
1.2E+00	2.18E-02	9.86E-02	1.37E-01	2.20E-01	3.83E-01	4.84E-01	6.98E-01	8.37E-01	1.05E+00	1.33E+00	1.56E+00	2.04E+00	2.42E+00	3.01E+00	3.61E+00	4.44E+00	4.65E+00	5.03E+00	5.75E+00	5.81E+00	5.81E+00
1.4E+00	2.18E-02	9.84E-02	1.36E-01	2.20E-01	3.80E-01	4.81E-01	6.95E-01	8.34E-01	1.05E+00	1.31E+00	1.53E+00	2.00E+00	2.38E+00	2.96E+00	3.56E+00	4.38E+00	4.51E+00	4.80E+00	5.31E+00	5.34E+00	5.34E+00
1.6E+00	2.18E-02	9.80E-02	1.36E-01	2.19E-01	3.76E-01	4.77E-01	6.90E-01	8.29E-01	1.04E+00	1.28E+00	1.50E+00	1.96E+00	2.34E+00	2.92E+00	3.50E+00	4.30E+00	4.39E+00	4.59E+00	4.94E+00	4.95E+00	4.95E+00
1.8E+00	2.18E-02	9.78E-02	1.36E-01	2.19E-01	3.72E-01	4.73E-01	6.86E-01	8.25E-01	1.04E+00	1.25E+00	1.46E+00	1.91E+00	2.29E+00	2.86E+00	3.44E+00	4.21E+00	4.28E+00	4.42E+00	4.64E+00	4.65E+00	4.65E+00
2.0E+00	2.18E-02	9.74E-02	1.35E-01	2.19E-01	3.67E-01	4.68E-01	6.81E-01	8.20E-01	1.03E+00	1.22E+00	1.43E+00	1.86E+00	2.23E+00	2.80E+00	3.35E+00	4.10E+00	4.17E+00	4.26E+00	4.40E+00	4.40E+00	4.40E+00
2.4E+00	2.18E-02	9.66E-02	1.35E-01	2.18E-01	3.58E-01	4.58E-01	6.69E-01	8.08E-01	1.02E+00	1.16E+00	1.35E+00	1.74E+00	2.10E+00	2.65E+00	3.16E+00	3.86E+00	3.92E+00	3.96E+00	4.02E+00	4.03E+00	4.03E+00
3.0E+00	2.18E-02	9.52E-02	1.33E-01	2.16E-01	3.41E-01	4.40E-01	6.48E-01	7.88E-01	1.00E+00	1.09E+00	1.24E+00	1.55E+00	1.88E+00	2.38E+00	2.83E+00	3.42E+00	3.48E+00	3.50E+00	3.54E+00	3.54E+00	3.54E+00
4.0E+00	2.16E-02	9.18E-02	1.30E-01	2.13E-01	3.10E-01	4.05E-01	6.24E-01	7.54E-01	9.54E-01	9.97E-01	1.09E+00	1.27E+00	1.52E+00	1.89E+00	2.22E+00	2.67E+00	2.69E+00	2.71E+00	2.75E+00	2.75E+00	2.75E+00
5.0E+00	2.16E-02	8.80E-02	1.26E-01	2.09E-01	2.81E-01	3.69E-01	5.52E-01	6.89E-01	8.98E-01	9.32E-01	9.82E-01	1.07E+00	1.23E+00	1.47E+00	1.71E+00	2.02E+00	2.03E+00	2.04E+00	2.06E+00	2.06E+00	2.06E+00
6.0E+00	2.14E-02	8.36E-02	1.21E-01	2.04E-01	2.55E-01	3.34E-01	4.95E-01	6.29E-01	8.34E-01	8.67E-01	8.92E-01	9.35E-01	1.03E+00	1.17E+00	1.33E+00	1.55E+00	1.55E+00	1.56E+00	1.57E+00	1.57E+00	1.57E+00
7.0E+00	2.12E-02	7.86E-02	1.16E-01	1.98E-01	2.32E-01	3.01E-01	4.37E-01	5.66E-01	7.63E-01	7.93E-01	8.09E-01	8.39E-01	8.91E-01	9.63E-01	1.07E+00	1.22E+00	1.22E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00
8.0E+00	2.10E-02	7.36E-02	1.11E-01	1.91E-01	2.15E-01	2.73E-01	3.83E-01	5.05E-01	6.91E-01	7.14E-01	7.28E-01	7.57E-01	7.84E-01	8.22E-01	8.97E-01	9.93E-01	9.98E-01	1.00E+00	1.00E+00	1.00E+00	1.00E+00
1.0E+01	2.00E-02	6.20E-02	9.80E-02	1.74E-01	1.88E-01	2.24E-01	2.88E-01	3.92E-01	5.48E-01	5.59E-01	5.72E-01	5.98E-01	6.10E-01	6.27E-01	6.61E-01	7.03E-01	7.05E-01	7.07E-01	7.10E-01	7.10E-01	7.10E-01
1.5E+01	1.94E-02	4.14E-02	7.34E-02	1.37E-01	1.50E-01	1.58E-01	1.71E-01	2.23E-01	3.01E-01	3.04E-01	3.08E-01	3.14E-01	3.23E-01	3.38E-01	3.42E-01	3.48E-01	3.49E-01	3.49E-01	3.50E-01	3.50E-01	3.50E-01
2.0E+01	1.78E-02	2.66E-02	5.06E-02	9.86E-02	1.06E-01	1.10E-01	1.18E-01	1.40E-01	1.71E-01	1.74E-01	1.75E-01	1.77E-01	1.82E-01	1.89E-01	1.90E-01	1.91E-01	1.91E-01	1.91E-01	1.91E-01	1.91E-01	1.90E-01
3.0E+01	1.40E-02	1.62E-02	2.78E-02	4.82E-02	4.92E-02	5.22E-02	5.82E-02	6.15E-02	6.58E-02	6.61E-02	6.68E-02	6.82E-02	6.91E-02	7.01E-02	7.02E-02	7.02E-02	7.03E-02	7.03E-02	7.05E-02	7.05E-02	7.10E-02
4.0E+01	1.04E-02	1.23E-02	1.73E-02	2.49E-02	2.53E-02	2.68E-02	2.93E-02	2.98E-02	3.05E-02	3.06E-02	3.10E-02	3.16E-02	3.16E-02	3.18E-02	3.18E-02	3.18E-02	3.18E-02	3.19E-02	3.19E-02	3.19E-02	3.20E-02
6.0E+01	5.20E-03	6.46E-03	7.42E-03	8.58E-03	8.88E-03	9.16E-03	9.52E-03	9.55E-03	9.59E-03	9.66E-03	9.72E-03	9.81E-03	9.82E-03	9.83E-03	9.83E-03	9.83E-03	9.84E-03	9.85E-03	9.86E-03	9.86E-03	9.90E-03
1.0E+02	1.30E-03	1.56E-03	1.65E-03	1.71E-03	1.77E-03	1.79E-03	1.81E-03	1.81E-03	1.81E-03	1.83E-03	1.83E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.80E-03
E[keV]:	6.13E+01	1.05E+01	9.98E+00	8.94E+00	2.40E+00	2.17E+00	1.95E+00	1.58E+00	1.53E+00	4.87E-01	3.99E-01	3.46E-01	1.89E-01	1.85E-01	0.00E+00	0.00E+00	5.30E-02	2.30E-02	2.30E-02	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																					
0.0E+00	5.33E+00	7.51E+00	8.51E+00	9.09E+00	9.48E+00	9.97E+00	1.02E+01	1.06E+01	1.08E+01	1.09E+01	1.11E+01	1.12E+01	1.14E+01	1.15E+01	1.15E+01	1.16E+01	1.16E+01	1.16E+01			
5.0E-02	5.19E+00	7.37E+00	8.37E+00	8.95E+00	9.33E+00	9.82E+00	1.01E+01	1.04E+01	1.06E+01	1.08E+01	1.10E+01	1.11E+01	1.13E+01	1.14E+01	1.15E+01	1.15E+01	1.15E+01	1.15E+01			
1.0E-01	4.79E+00	6.97E+00	7.96E+00	8.54E+00	8.92E+00	9.42E+00	9.65E+00	1.00E+01	1.02E+01	1.04E+01	1.06E+01	1.07E+01	1.09E+01	1.09E+01	1.10E+01	1.10E+01	1.11E+01	1.11E+01			
1.5E-01	4.23E+00	6.40E+00	7.38E+00	7.96E+00	8.35E+00	8.84E+00	9.07E+00	9.43E+00	9.65E+00	9.79E+00	1.00E+01	1.01E+01	1.03E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01			
2.0E-01	3.61E+00	5.78E+00	6.74E+00	7.32E+00	7.70E+00	8.20E+00	8.43E+00	8.79E+00	9.00E+00	9.14E+00	9.36E+00	9.46E+00	9.63E+00	9.71E+00	9.75E+00	9.83E+00	9.85E+00	9.85E+00			
3.0E-01	2.54E+00	4.70E+00	5.60E+00	6.19E+00	6.57E+00	7.06E+00	7.29E+00	7.65E+00	7.87E+00	8.01E+00	8.22E+00	8.32E+00	8.49E+00	8.58E+00	8.61E+00	8.69E+00	8.71E+00	8.71E+00			
4.0E-01	1.91E+00	4.04E+00	4.87E+00	5.45E+00	5.83E+00	6.32E+00	6.56E+00	6.91E+00	7.13E+00	7.26E+00	7.48E+00	7.58E+00	7.75E+00	7.83E+00	7.87E+00	7.95E+00	7.97E+00	7.97E+00			
5.0E-01	1.64E+00	3.72E+00	4.47E+00	5.05E+00	5.43E+00	5.93E+00	6.16E+00	6.51E+00	6.72E+00	6.86E+00	7.07E+00	7.18E+00	7.35E+00	7.43E+00	7.47E+00	7.54E+00	7.57E+00	7.56E+00			
6.0E-01	1.56E+00	3.56E+00	4.22E+00	4.81E+00	5.19E+00	5.68E+00	5.91E+00	6.26E+00	6.47E+00	6.61E+00	6.82E+00	6.92E+00	7.09E+00	7.18E+00	7.21E+00	7.29E+00	7.31E+00	7.31E+00			
7.0E-01	1.55E+00	3.44E+00	4.01E+00	4.60E+00	4.98E+00	5.47E+00	5.70E+00	6.03E+00	6.25E+00	6.39E+00	6.60E+00	6.70E+00	6.87E+00	6.95E+00	6.99E+00	7.07E+00	7.09E+00	7.09E+00			
8.0E-01	1.54E+00	3.30E+00	3.79E+00	4.37E+00	4.75E+00	5.24E+00	5.47E+00	5.80E+00	6.01E+00	6.15E+00	6.36E+00	6.46E+00	6.63E+00	6.71E+00	6.75E+00	6.83E+00	6.85E+00	6.86E+00			
1.0E+00	1.53E+00	2.97E+00	3.30E+00	3.88E+00	4.26E+00	4.75E+00	4.98E+00	5.28E+00	5.50E+00	5.63E+00	5.85E+00	5.95E+00	6.12E+00	6.20E+00	6.24E+00	6.31E+00	6.34E+00	6.34E+00			
1.2E+00	1.48E+00	2.59E+00	2.80E+00	3.38E+00	3.77E+00	4.25E+00	4.47E+00	4.76E+00	4.97E+00	5.11E+00	5.32E+00	5.42E+00	5.59E+00	5.67E+00	5.71E+00	5.79E+00	5.81E+00	5.81E+00			
1.4E+00	1.44E+00	2.24E+00	2.38E+00	2.96E+00	3.34E+00	3.81E+00	4.04E+00	4.30E+00	4.51E+00	4.65E+00	4.86E+00	4.96E+00	5.12E+00	5.21E+00	5.24E+00	5.32E+00	5.34E+00	5.34E+00			
1.6E+00	1.40E+00	1.95E+00	2.04E+00	2.62E+00	2.99E+00	3.46E+00	3.68E+00	3.91E+00	4.12E+00	4.26E+00	4.48E+00	4.58E+00	4.74E+00	4.82E+00	4.86E+00	4.93E+00	4.95E+00	4.95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10-2
0.0
70Yb
Σi Ji(Q)
Q

Z=71

Compton profiles for the single orbitals and binding energies

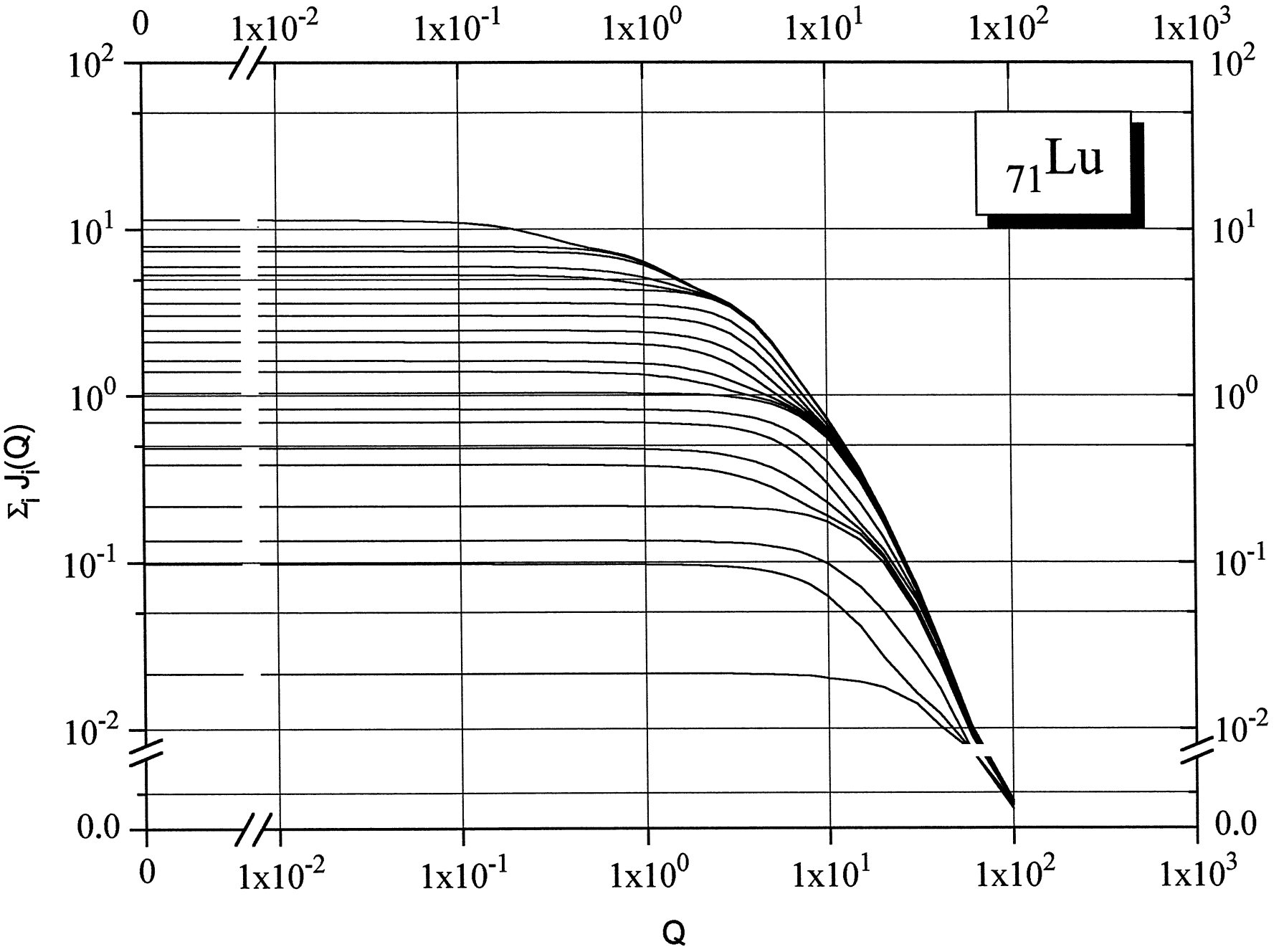
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(1)	5d+(2)	Total
0.0E+00	1.07E-02	3.81E-02	1.87E-02	2.05E-02	8.42E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.79E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	4.80E-01	3.27E-01	3.54E-01	4.89E-01	1.77E+00	1.15E+01
5.0E-02	1.07E-02	3.81E-02	1.87E-02	2.05E-02	8.42E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.79E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	4.78E-01	3.27E-01	3.54E-01	4.89E-01	1.72E+00	1.13E+01
1.0E-01	1.07E-02	3.81E-02	1.87E-02	2.05E-02	8.42E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.78E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	4.74E-01	3.27E-01	3.54E-01	4.89E-01	1.56E+00	1.10E+01
1.5E-01	1.07E-02	3.81E-02	1.87E-02	2.05E-02	8.41E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.78E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	4.68E-01	3.27E-01	3.54E-01	4.89E-01	1.33E+00	1.06E+01
2.0E-01	1.07E-02	3.80E-02	1.87E-02	2.05E-02	8.41E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.77E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	4.59E-01	3.27E-01	3.54E-01	4.88E-01	1.07E+00	1.00E+01
3.0E-01	1.07E-02	3.80E-02	1.87E-02	2.05E-02	8.40E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.76E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	4.35E-01	3.26E-01	3.52E-01	4.82E-01	5.94E-01	8.99E+00
4.0E-01	1.07E-02	3.80E-02	1.87E-02	2.05E-02	8.38E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.74E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	4.03E-01	3.23E-01	3.48E-01	4.65E-01	2.76E-01	8.24E+00
5.0E-01	1.07E-02	3.80E-02	1.87E-02	2.05E-02	8.35E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.71E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	3.66E-01	3.17E-01	3.40E-01	4.33E-01	1.21E-01	7.78E+00
6.0E-01	1.07E-02	3.80E-02	1.87E-02	2.05E-02	8.32E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.68E-01	1.13E-01	1.20E-01	9.31E-02	9.51E-02	9.53E-02	9.67E-02	3.26E-01	3.09E-01	3.28E-01	3.89E-01	6.47E-02	7.47E+00
7.0E-01	1.07E-02	3.79E-02	1.87E-02	2.05E-02	8.28E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.65E-01	1.13E-01	1.20E-01	9.31E-02	9.50E-02	9.52E-02	9.67E-02	2.84E-01	2.97E-01	3.12E-01	3.40E-01	5.13E-02	7.21E+00
8.0E-01	1.07E-02	3.79E-02	1.87E-02	2.05E-02	8.24E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.60E-01	1.13E-01	1.20E-01	9.31E-02	9.50E-02	9.52E-02	9.67E-02	2.43E-01	2.81E-01	2.92E-01	2.91E-01	5.02E-02	6.96E+00
1.0E+00	1.07E-02	3.78E-02	1.87E-02	2.05E-02	8.14E-02	4.95E-02	5.26E-02	3.42E-02	3.49E-02	1.51E-01	1.12E-01	1.19E-01	9.30E-02	9.50E-02	9.50E-02	9.65E-02	1.69E-01	2.42E-01	2.42E-01	2.03E-01	4.56E-02	6.41E+00
1.2E+00	1.07E-02	3.77E-02	1.87E-02	2.05E-02	8.01E-02	4.95E-02	5.25E-02	3.42E-02	3.49E-02	1.41E-01	1.11E-01	1.18E-01	9.29E-02	9.49E-02	9.47E-02	9.61E-02	1.12E-01	1.96E-01	1.88E-01	1.36E-01	3.30E-02	5.85E+00
1.4E+00	1.07E-02	3.76E-02	1.87E-02	2.05E-02	7.87E-02	4.95E-02	5.25E-02	3.42E-02	3.49E-02	1.29E-01	1.10E-01	1.16E-01	9.27E-02	9.46E-02	9.40E-02	9.54E-02	7.24E-02	1.50E-01	1.37E-01	8.95E-02	2.02E-02	5.36E+00
1.6E+00	1.07E-02	3.75E-02	1.87E-02	2.05E-02	7.71E-02	4.94E-02	5.25E-02	3.42E-02	3.49E-02	1.17E-01	1.08E-01	1.14E-01	9.24E-02	9.42E-02	9.30E-02	9.42E-02	4.87E-02	1.10E-01	9.52E-02	5.78E-02	1.13E-02	4.95E+00
1.8E+00	1.07E-02	3.73E-02	1.87E-02	2.05E-02	7.53E-02	4.94E-02	5.24E-02	3.42E-02	3.49E-02	1.05E-01	1.06E-01	1.10E-01	9.18E-02	9.36E-02	9.15E-02	9.27E-02	3.65E-02	7.67E-02	6.32E-02	3.69E-02	6.09E-03	4.63E+00
2.0E+00	1.07E-02	3.72E-02	1.87E-02	2.05E-02	7.34E-02	4.93E-02	5.23E-02	3.42E-02	3.49E-02	9.28E-02	1.03E-01	1.06E-01	9.09E-02	9.26E-02	8.96E-02	9.06E-02	3.15E-02	5.19E-02	4.09E-02	2.33E-02	3.56E-03	4.38E+00
2.4E+00	1.07E-02	3.68E-02	1.87E-02	2.05E-02	6.91E-02	4.91E-02	5.20E-02	3.42E-02	3.49E-02	7.07E-02	9.45E-02	9.65E-02	8.82E-02	8.96E-02	8.46E-02	8.54E-02	3.00E-02	2.35E-02	1.83E-02	9.21E-03	2.23E-03	4.00E+00
3.0E+00	1.07E-02	3.61E-02	1.87E-02	2.04E-02	6.19E-02	4.85E-02	5.13E-02	3.42E-02	3.48E-02	4.45E-02	7.88E-02	7.77E-02	8.11E-02	8.19E-02	7.52E-02	7.55E-02	2.70E-02	1.15E-02	1.11E-02	2.82E-03	2.12E-03	3.54E+00
4.0E+00	1.06E-02	3.46E-02	1.86E-02	2.04E-02	4.90E-02	4.67E-02	4.90E-02	3.40E-02	3.47E-02	2.20E-02	4.95E-02	4.54E-02	6.29E-02	6.24E-02	5.78E-02	5.75E-02	1.30E-02	1.04E-02	1.01E-02	1.77E-03	1.11E-03	2.79E+00
5.0E+00	1.06E-02	3.28E-02	1.86E-02	2.04E-02	3.66E-02	4.37E-02	4.52E-02	3.37E-02	3.43E-02	1.67E-02	2.63E-02	2.25E-02	4.23E-02	4.12E-02	4.20E-02	4.15E-02	4.61E-03	7.23E-03	6.05E-03	1.61E-03	3.75E-04	2.11E+00
6.0E+00	1.05E-02	3.08E-02	1.85E-02	2.02E-02	2.60E-02	3.96E-02	4.00E-02	3.30E-02	3.36E-02	1.65E-02	1.33E-02	1.13E-02	2.53E-02	2.41E-02	2.95E-02	2.90E-02	2.72E-03	3.66E-03	2.72E-03	1.13E-03	1.90E-04	1.61E+00
7.0E+00	1.04E-02	2.85E-02	1.84E-02	2.01E-02	1.79E-02	3.45E-02	3.41E-02	3.19E-02	3.24E-02	1.52E-02	8.01E-03	7.65E-03	1.39E-02	1.30E-02	2.03E-02	1.98E-02	2.63E-03	1.66E-03	1.24E-03	6.64E-04	1.78E-04	1.26E+00
8.0E+00	1.04E-02	2.61E-02	1.82E-02	1.98E-02	1.24E-02	2.90E-02	2.78E-02	3.03E-02	3.07E-02	1.21E-02	6.75E-03	7.12E-03	7.48E-03	6.93E-03	1.38E-02	1.34E-02	2.38E-03	9.47E-04	8.47E-04	3.56E-04	1.64E-04	1.03E+00
1.0E+01	1.00E-02	2.10E-02	1.80E-02	1.90E-02	7.30E-03	1.90E-02	1.70E-02	2.60E-02	2.60E-02	5.60E-03	6.50E-03	6.50E-03	3.10E-03	3.00E-03	6.30E-03	6.10E-03	1.20E-03	8.00E-04	7.90E-04	1.20E-04	8.60E-05	7.30E-01
1.5E+01	9.50E-03	1.10E-02	1.50E-02	1.60E-02	6.20E-03	4.20E-03	3.50E-03	1.40E-02	1.30E-02	1.50E-03	2.20E-03	1.70E-03	2.40E-03	2.40E-03	9.00E-04	8.50E-04	2.30E-04	3.20E-04	2.30E-04	7.90E-05	1.60E-05	3.60E-01
2.0E+01	8.80E-03	4.60E-03	1.20E-02	1.20E-02	3.80E-03	1.90E-03	2.10E-03	5.70E-03	5.40E-03	1.20E-03	4.90E-04	4.60E-04	1.30E-03	1.30E-03	1.50E-04	1.40E-04	1.90E-04	6.50E-05	5.50E-05	4.60E-05	1.30E-05	1.90E-01
3.0E+01	7.00E-03	1.10E-03	6.00E-03	5.30E-03	5.30E-04	1.50E-03	1.50E-03	8.90E-04	8.00E-04	1.70E-04	3.40E-04	3.50E-04	2.30E-04	2.00E-04	6.90E-06	6.20E-06	2.80E-05	4.20E-05	4.10E-05	7.90E-06	1.90E-06	7.30E-02
4.0E+01	5.20E-03	9.40E-04	2.60E-03	2.00E-03	2.00E-04	7.80E-04	6.50E-04	1.60E-04	1.30E-04	4.80E-05	1.90E-04	1.60E-04	4.00E-05	3.40E-05	5.60E-07	4.80E-07	7.30E-06	2.30E-05	1.90E-05	1.40E-06	4.90E-07	3.30E-02
6.0E+01	2.70E-03	6.40E-04	5.10E-04	3.10E-04	1.50E-04	1.50E-04	9.70E-05	8.90E-06	6.70E-06	3.70E-05	3.60E-05	2.40E-05	2.20E-06	1.60E-06	1.10E-08	8.90E-09	5.70E-06	4.50E-06	2.80E-06	7.70E-08	3.80E-07	1.00E-02
1.0E+02	6.80E-04	1.50E-04	3.90E-05	1.60E-05	3.50E-05	1.10E-05	4.50E-06	1.60E-07	9.30E-08	8.50E-06	2.50E-06	1.10E-06	3.80E-08	2.20E-08	6.40E-11	4.20E-11	1.30E-06	3.20E-07	1.30E-07	1.30E-09	8.70E-08	1.90E-03
E[keV]:	6.33E+01	1.09E+01	1.03E+01	9.24E+00	2.49E+00	2.26E+00	2.02E+00	1.64E+00	1.59E+00	5.07E-01	4.12E-01	3.59E-01	2.06E-01	1.96E-01	7.00E-03	7.00E-03	5.70E-02	2.80E-02	2.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(1)	5d+(2)	Total
0.0E+00	2.14E-02	9.76E-02	1.35E-01	2.17E-01	3.85E-01	4.84E-01	6.95E-01	8.32E-01	1.04E+00	1.40E+00	1.63E+00	2.11E+00	2.48E+00	3.05E+00	3.62E+00	4.39E+00	5.35E+00	6.01E+00	7.42E+00	7.91E+00	1.15E+01	1.15E+01
5.0E-02	2.14E-02	9.76E-02	1.35E-01	2.17E-01	3.85E-01	4.84E-01	6.95E-01	8.32E-01	1.04E+00	1.40E+00	1.63E+00	2.11E+00	2.48E+00	3.05E+00	3.62E+00	4.39E+00	5.35E+00	6.00E+00	7.42E+00	7.91E+00	1.13E+01	1.13E+01
1.0E-01	2.14E-02	9.76E-02	1.35E-01	2.17E-01	3.85E-01	4.84E-01	6.95E-01	8.32E-01	1.04E+00	1.40E+00	1.62E+00	2.10E+00	2.48E+00	3.05E+00	3.62E+00	4.39E+00	5.34E+00	5.99E+00	7.41E+00	7.90E+00	1.10E+01	1.10E+01
1.5E-01	2.14E-02	9.76E-02	1.35E-01	2.17E-01	3.85E-01	4.84E-01	6.95E-01	8.31E-01	1.04E+00	1.40E+00	1.62E+00	2.10E+00	2.48E+00	3.05E+00	3.62E+00	4.39E+00	5.33E+00	5.98E+00	7.40E+00	7.89E+00	1.05E+01	1.06E+01
2.0E-01	2.14E-02	9.74E-02	1.35E-01	2.17E-01	3.85E-01	4.84E-01	6.94E-01	8.31E-01	1.04E+00	1.39E+00	1.62E+00	2.10E+00	2.47E+00	3.04E+00	3.62E+00	4.39E+00	5.31E+00	5.96E+00	7.38E+00	7.86E+00	1.00E+01	1.00E+01
3.0E-01	2.14E-02	9.74E-02	1.35E-01	2.17E-01	3.85E-01	4.84E-01	6.94E-01	8.31E-01	1.04E+00	1.39E+00	1.62E+00	2.10E+00	2.47E+00	3.04E+00	3.61E+00	4.39E+00	5.26E+00	5.91E+00	7.32E+00	7.80E+00	8.99E+00	8.99E+00
4.0E-01	2.14E-02	9.74E-02	1.35E-01	2.17E-01	3.84E-01	4.83E-01	6.94E-01	8.31E-01	1.04E+00	1.39E+00	1.61E+00	2.09E+00	2.47E+00	3.04E+00	3.61E+00	4.38E+00	5.19E+00	5.83E+00	7.23E+00	7.69E+00	8.24E+00	8.24E+00
5.0E-01	2.14E-02	9.74E-02	1.35E-01	2.17E-01	3.84E-01	4.83E-01	6.93E-01	8.30E-01	1.04E+00	1.38E+00	1.61E+00	2.09E+00	2.46E+00	3.03E+00	3.60E+00	4.38E+00	5.11E+00	5.74E+00	7.10E+00	7.53E+00	7.78E+00	7.78E+00
6.0E-01	2.14E-02	9.74E-02	1.35E-01	2.17E-01	3.83E-01	4.82E-01	6.93E-01	8.29E-01	1.04E+00	1.37E+00	1.60E+00	2.08E+00	2.45E+00	3.02E+00	3.60E+00	4.37E+00	5.02E+00	5.64E+00	6.95E+00	7.34E+00	7.47E+00	7.47E+00
7.0E-01	2.14E-02	9.72E-02	1.35E-01	2.17E-01	3.82E-01	4.81E-01	6.92E-01	8.28E-01	1.04E+00	1.37E+00	1.59E+00	2.07E+00	2.45E+00	3.02E+00	3.59E+00	4.36E+00	4.93E+00	5.52E+00	6.77E+00	7.14E+00	7.21E+00	7.21E+00
8.0E-01	2.14E-02	9.72E-02	1.35E-01	2.17E-01	3.81E-01	4.80E-01	6.91E-01	8.28E-01	1.04E+00	1.36E+00	1.58E+00	2.06E+00	2.44E+00	3.01E+00	3.58E+00	4.35E+00	4.84E+00	5.40E+00	6.57E+00	6.86E+00	6.96E+00	6.96E+00
1.0E+00	2.14E-02	9.70E-02	1.34E-01	2.16E-01	3.79E-01	4.78E-01	6.89E-01	8.25E-01	1.03E+00	1.34E+00	1.56E+00	2.04E+00	2.41E+00	2.98E+00	3.55E+00	4.32E+00	4.66E+00	5.14E+00	6.11E+00	6.31E+00	6.41E+00	6.41E+00
1.2E+00	2.14E-02	9.68E-02	1.34E-01	2.16E-01	3.76E-01	4.75E-01	6.85E-01	8.22E-01	1.03E+00	1.31E+00	1.54E+00	2.01E+00	2.38E+00	2.95E+00	3.52E+00	4.29E+00	4.51E+00	4.90E+00	5.65E+00	5.79E+00	5.86E+00	5.85E+00
1.4E+00	2.14E-02	9.66E-02	1.34E-01	2.16E-01	3.73E-01	4.72E-01	6.82E-01	8.19E-01	1.03E+00	1.29E+00	1.51E+00	1.97E+00	2.34E+00	2.91E+00	3.47E+00	4.24E+00	4.38E+00	4.68E+00	5.23E+00	5.32E+00	5.36E+00	5.36E+00
1.6E+00	2.14E-02	9.64E-02	1.34E-01	2.16E-01	3.70E-01	4.69E-01	6.79E-01	8.16E-01	1.03E+00	1.26E+00	1.48E+00	1.93E+00	2.30E+00	2.87E+00	3.42E+00	4.18E+00	4.27E+00	4.49E+00	4.88E+00	4.93E+00	4.96E+00	4.95E+00
1.8E+00	2.14E-02	9.60E-02	1.33E-01	2.15E-01	3.66E-01	4.65E-01	6.74E-01	8.11E-01	1.02E+00	1.23E+00	1.44E+00	1.88E+00	2.25E+00	2.81E+00	3.36E+00	4.10E+00	4.17E+00	4.33E+00	4.58E+00	4.62E+00	4.63E+00	4.63E+00
2.0E+00	2.14E-02	9.58E-02	1.33E-01	2.15E-01	3.62E-01	4.61E-01	6.70E-01	8.07E-01	1.02E+00	1.20E+00	1.41E+00	1.83E+00	2.20E+00	2.75E+00	3.29E+00	4.01E+00	4.08E+00	4.18E+00	4.34E+00	4.37E+00	4.37E+00	4.38E+00
2.4E+00	2.14E-02	9.50E-02	1.32E-01	2.14E-01	3.53E-01	4.51E-01	6.59E-01	7.96E-01	1.01E+00	1.15E+00	1.34E+00	1.72E+00	2.07E+00	2.61E+00	3.12E+00	3.80E+00	3.86E+00	3.91E+00	3.98E+00	3.99E+00	4.00E+00	4.00E+00
3.0E+00	2.14E-02	9.36E-02	1.31E-01	2.13E-01	3.36E-01	4.33E-01	6.39E-01	7.75E-01	9.84E-01	1.07E+00	1.23E+00	1.54E+00	1.87E+00	2.36E+00	2.81E+00	3.41E+00	3.47E+00	3.49E+00	3.53E+00	3.54E+00	3.54E+00	3.54E+00
4.0E+00	2.12E-02	9.04E-02	1.28E-01	2.09E-01	3.07E-01	4.01E-01	5.97E-01	7.33E-01	9.41E-01	9.85E-01	1.08E+00	1.27E+00	1.52E+00	1.89E+00	2.24E+00	2.70E+00	2.72E+00	2.74E+00	2.79E+00	2.79E+00	2.79E+00	2.79E+00
5.0E+00	2.12E-02	8.68E-02	1.24E-01	2.06E-01	2.79E-01	3.66E-01	5.47E-01	6.82E-01	8.88E-01	9.21E-01	9.74E-01	1.06E+00	1.23E+00	1.48E+00	1.73E+00	2.06E+00	2.07E+00	2.08E+00	2.11E+00	2.11E+00	2.11E+00	2.11E+00
6.0E+00	2.10E-02	8.26E-02	1.20E-01	2.00E-01	2.52E-01	3.32E-01	4.92E-01	6.24E-01	8.25E-01	8.58E-01	8.85E-01	9.30E-01	1.03E+00	1.18E+00	1.35E+00	1.58E+00	1.59E+00	1.60E+00	1.61E+00	1.61E+00	1.61E+00	1.61E+00
7.0E+00	2.08E-02	7.78E-02	1.15E-01	1.95E-01	2.31E-01	3.00E-01	4.36E-01	5.64E-01	7.58E-01	7.89E-01	8.05E-01	8.35E-01	8.91E-01	9.69E-01	1.09E+00	1.25E+00	1.25E+00	1.26E+00	1.26E+00	1.26E+00	1.26E+00	1.26E+00
8.0E+00	2.08E-02	7.30E-02	1.09E-01	1.89E-01	2.13E-01	2.71E-01	3.83E-01	5.04E-01	6.88E-01	7.12E-01	7.26E-01	7.54E-01	7.84E-01	8.26E-01	9.08E-01	1.02E+00	1.02E+00	1.02E+00	1.03E+00	1.03E+00	1.03E+00	1.03E+00
1.0E+01	2.00E-02	6.20E-02	9.80E-02	1.74E-01	1.89E-01	2.27E-01	2.95E-01	3.99E-01	5.55E-01	5.66E-01	5.79E-01	6.05E-01	6.17E-01	6.35E-01	6.73E-01	7.22E-01	7.24E-01	7.26E-01	7.29E-01	7.29E-01	7.29E-01	7.30E-01
1.5E+01	1.90E-02	4.10E-02	7.10E-02	1.35E-01	1.47E-01	1.56E-01	1.70E-01	2.26E-01	3.04E-01	3.07E-01	3.11E-01	3.18E-01	3.28E-01	3.42E-01	3.47E-01	3.54E-01	3.55E-01	3.55E-01	3.56E-01	3.56E-01	3.56E-01	3.60E-01
2.0E+01	1.76E-02	2.68E-02	5.08E-02	9.88E-02	1.06E-01	1.10E-01	1.19E-01	1.41E-01	1.74E-01	1.76E-01	1.77E-01	1.79E-01	1.84E-01	1.92E-01	1.93E-01	1.94E-01	1.94E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01	1.90E-01
3.0E+01	1.40E-02	1.62E-02	2.82E-02	4.94E-02	5.05E-02	5.35E-02	5.95E-02	6.30E-02	6.78E-02	6.82E-02	6.88E-02	7.02E-02	7.12E-02	7.24E-02	7.24E-02	7.25E-02	7.25E-02	7.26E-02	7.28E-02	7.28E-02	7.28E-02	7.30E-02
4.0E+01	1.04E-02	1.23E-02	1.75E-02	2.55E-02	2.59E-02	2.74E-02	3.00E-02	3.07E-02	3.15E-02	3.16E-02	3.19E-02	3.26E-02	3.27E-02	3.29E-02	3.29E-02	3.29E-02	3.30E-02	3.30E-02	3.31E-02	3.31E-02	3.31E-02	3.30E-02
6.0E+01	5.40E-03	6.68E-03	7.70E-03	8.94E-03	9.24E-03	9.54E-03	9.93E-03	9.96E-03	1.00E-02	1.01E-02	1.01E-02	1.02E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.00E-02
1.0E+02	1.36E-03	1.66E-03	1.74E-03	1.80E-03	1.87E-03	1.89E-03	1.91E-03	1.91E-03	1.91E-03	1.93E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.90E-03
E[keV]:	6.33E+01	1.09E+01	1.03E+01	9.24E+00	2.49E+00	2.26E+00	2.02E+00	1.64E+00	1.59E+00	5.07E-01	4.12E-01	3.59E-01	2.06E-01	1.96E-01	7.00E-03	7.00E-03	5.70E-02	2.80E-02	2.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																						
0.0E+00	4.03E+00	5.37E+00	7.44E+00	8.40E+00	8.98E+00	9.35E+00	9.83E+00	1.01E+01	1.04E+01	1.06E+01	1.08E+01	1.10E+01	1.11E+01	1.12E+01	1.13E+01	1.14E+01	1.14E+01	1.15E+01	1.15E+01			
5.0E-02	3.93E+00	5.27E+00	7.34E+00	8.30E+00	8.87E+00	9.24E+00	9.72E+00	9.95E+00	1.03E+01	1.05E+01	1.07E+01	1.09E+01	1.10E+01	1.11E+01	1.12E+01	1.13E+01	1.13E+01	1.13E+01	1.13E+01			
1.0E-01	3.61E+00	4.95E+00	7.02E+00	7.97E+00	8.54E+00	8.92E+00	9.40E+00	9.62E+00	9.98E+00	1.02E+01	1.03E+01	1.05E+01	1.06E+01	1.08E+01	1.09E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01			
1.5E-01	3.15E+00	4.49E+00	6.56E+00	7.50E+00	8.07E+00	8.44E+00	8.92E+00	9.15E+00	9.51E+00	9.71E+00	9.85E+00	1.01E+01	1.02E+01	1.03E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.06E+01			
2.0E-01	2.63E+00	3.97E+00	6.04E+00	6.96E+00	7.53E+00	7.90E+00	8.38E+00	8.61E+00	8.96E+00	9.17E+00	9.31E+00	9.52E+00	9.62E+00	9.79E+00	9.87E+00	9.91E+00	9.98E+00	1.00E+01	1.00E+01			
3.0E-01	1.67E+00	3.02E+00	5.08E+00	5.95E+00	6.52E+00	6.89E+00	7.37E+00	7.59E+00	7.95E+00	8.16E+00	8.29E+00	8.50E+00	8.60E+00	8.77E+00	8.85E+00	8.89E+00	8.97E+00	8.99E+00	8.99E+00			
4.0E-01	1.02E+00	2.36E+00	4.40E+00	5.21E+00	5.78E+00	6.15E+00	6.62E+00	6.86E+00	7.20E+00	7.41E+00	7.55E+00	7.76E+00	7.86E+00	8.03E+00	8.11E+00	8.15E+00	8.22E+00	8.24E+00	8.24E+00			
5.0E-01	6.75E-01	2.02E+00	4.01E+00	4.75E+00	5.32E+00	5.69E+00	6.17E+00	6.40E+00	6.74E+00	6.95E+00	7.08E+00	7.29E+00	7.39E+00	7.56E+00	7.64E+00	7.68E+00	7.76E+00	7.78E+00	7.78E+00			
6.0E-01	5.18E-01	1.86E+00	3.79E+00	4.45E+00	5.02E+00	5.39E+00	5.87E+00	6.09E+00	6.43E+00	6.64E+00	6.78E+00	6.99E+00	7.09E+00	7.25E+00	7.33E+00	7.37E+00	7.45E+00	7.47E+00	7.47E+00			
7.0E-01	4.43E-01	1.79E+00	3.63E+00	4.20E+00	4.77E+00	5.14E+00	5.62E+00	5.85E+00	6.18E+00	6.39E+00	6.52E+00	6.73E+00	6.83E+00	7.00E+00	7.08E+00	7.12E+00	7.19E+00	7.21E+00	7.21E+00			
8.0E-01	3.91E-01	1.74E+00	3.47E+00	3.95E+00	4.52E+00	4.89E+00	5.37E+00	5.60E+00	5.92E+00	6.13E+00	6.27E+00	6.48E+00	6.58E+00	6.74E+00	6.82E+00	6.86E+00	6.94E+00	6.96E+00	6.96E+00	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10-2
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71Lu
Σi Ji(Q)
Q

Z=72

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	5d+(2)	Total
0.0E+00	1.05E-02	3.74E-02	1.83E-02	2.01E-02	8.26E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.75E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	4.61E-01	3.14E-01	3.38E-01	4.23E-01	1.68E+00	1.14E+01
5.0E-02	1.05E-02	3.74E-02	1.83E-02	2.01E-02	8.26E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.75E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	4.59E-01	3.14E-01	3.38E-01	4.23E-01	1.63E+00	1.13E+01
1.0E-01	1.05E-02	3.74E-02	1.83E-02	2.01E-02	8.26E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.74E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	4.56E-01	3.14E-01	3.38E-01	4.23E-01	1.50E+00	1.10E+01
1.5E-01	1.05E-02	3.74E-02	1.83E-02	2.01E-02	8.26E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.74E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	4.50E-01	3.14E-01	3.38E-01	4.23E-01	1.30E+00	1.06E+01
2.0E-01	1.05E-02	3.74E-02	1.83E-02	2.01E-02	8.25E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.74E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	4.42E-01	3.14E-01	3.38E-01	4.23E-01	1.07E+00	1.01E+01
3.0E-01	1.05E-02	3.74E-02	1.83E-02	2.01E-02	8.24E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.72E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	4.20E-01	3.13E-01	3.36E-01	4.20E-01	6.21E-01	9.14E+00
4.0E-01	1.05E-02	3.73E-02	1.83E-02	2.01E-02	8.22E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.70E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	3.92E-01	3.11E-01	3.33E-01	4.12E-01	3.08E-01	8.41E+00
5.0E-01	1.05E-02	3.73E-02	1.83E-02	2.01E-02	8.19E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.68E-01	1.10E-01	1.18E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	3.58E-01	3.06E-01	3.27E-01	3.96E-01	1.41E-01	7.94E+00
6.0E-01	1.05E-02	3.73E-02	1.83E-02	2.01E-02	8.16E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.65E-01	1.10E-01	1.17E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	3.21E-01	2.99E-01	3.17E-01	3.71E-01	7.27E-02	7.62E+00
7.0E-01	1.05E-02	3.73E-02	1.83E-02	2.01E-02	8.13E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.61E-01	1.10E-01	1.17E-01	9.08E-02	9.27E-02	8.98E-02	9.07E-02	2.83E-01	2.88E-01	3.03E-01	3.39E-01	5.26E-02	7.35E+00
8.0E-01	1.05E-02	3.72E-02	1.83E-02	2.01E-02	8.09E-02	4.86E-02	5.17E-02	3.36E-02	3.43E-02	1.58E-01	1.10E-01	1.17E-01	9.07E-02	9.27E-02	8.98E-02	9.07E-02	2.45E-01	2.75E-01	2.86E-01	3.02E-01	4.96E-02	7.09E+00
1.0E+00	1.05E-02	3.72E-02	1.83E-02	2.01E-02	7.99E-02	4.86E-02	5.16E-02	3.36E-02	3.43E-02	1.49E-01	1.10E-01	1.17E-01	9.07E-02	9.27E-02	8.97E-02	9.06E-02	1.74E-01	2.40E-01	2.42E-01	2.29E-01	4.72E-02	6.53E+00
1.2E+00	1.05E-02	3.71E-02	1.83E-02	2.01E-02	7.88E-02	4.85E-02	5.16E-02	3.36E-02	3.43E-02	1.39E-01	1.09E-01	1.15E-01	9.06E-02	9.26E-02	8.95E-02	9.04E-02	1.18E-01	1.98E-01	1.93E-01	1.65E-01	3.66E-02	5.96E+00
1.4E+00	1.05E-02	3.70E-02	1.83E-02	2.01E-02	7.74E-02	4.85E-02	5.16E-02	3.36E-02	3.43E-02	1.28E-01	1.08E-01	1.14E-01	9.05E-02	9.24E-02	8.91E-02	9.01E-02	7.76E-02	1.56E-01	1.45E-01	1.15E-01	2.40E-02	5.43E+00
1.6E+00	1.05E-02	3.68E-02	1.83E-02	2.01E-02	7.59E-02	4.85E-02	5.15E-02	3.36E-02	3.43E-02	1.16E-01	1.06E-01	1.12E-01	9.02E-02	9.20E-02	8.85E-02	8.94E-02	5.24E-02	1.16E-01	1.03E-01	7.79E-02	1.41E-02	4.99E+00
1.8E+00	1.05E-02	3.67E-02	1.83E-02	2.01E-02	7.42E-02	4.84E-02	5.15E-02	3.36E-02	3.43E-02	1.05E-01	1.04E-01	1.09E-01	8.97E-02	9.15E-02	8.75E-02	8.84E-02	3.85E-02	8.34E-02	7.04E-02	5.19E-02	7.85E-03	4.64E+00
2.0E+00	1.05E-02	3.65E-02	1.83E-02	2.01E-02	7.24E-02	4.84E-02	5.14E-02	3.36E-02	3.43E-02	9.32E-02	1.01E-01	1.05E-01	8.89E-02	9.07E-02	8.62E-02	8.70E-02	3.23E-02	5.78E-02	4.67E-02	3.40E-02	4.53E-03	4.36E+00
2.4E+00	1.05E-02	3.62E-02	1.83E-02	2.01E-02	6.83E-02	4.82E-02	5.11E-02	3.36E-02	3.42E-02	7.17E-02	9.35E-02	9.58E-02	8.65E-02	8.80E-02	8.24E-02	8.32E-02	2.99E-02	2.68E-02	2.10E-02	1.42E-02	2.47E-03	3.97E+00
3.0E+00	1.05E-02	3.55E-02	1.83E-02	2.01E-02	6.14E-02	4.76E-02	5.04E-02	3.35E-02	3.42E-02	4.58E-02	7.88E-02	7.81E-02	8.02E-02	8.11E-02	7.47E-02	7.52E-02	2.78E-02	1.21E-02	1.16E-02	4.24E-03	2.31E-03	3.53E+00
4.0E+00	1.04E-02	3.41E-02	1.83E-02	2.01E-02	4.90E-02	4.60E-02	4.83E-02	3.34E-02	3.41E-02	2.26E-02	5.08E-02	4.68E-02	6.34E-02	6.30E-02	5.91E-02	5.91E-02	1.44E-02	1.06E-02	1.06E-02	2.24E-03	1.34E-03	2.82E+00
5.0E+00	1.04E-02	3.24E-02	1.83E-02	2.00E-02	3.69E-02	4.32E-02	4.47E-02	3.31E-02	3.38E-02	1.66E-02	2.77E-02	2.37E-02	4.36E-02	4.25E-02	4.40E-02	4.37E-02	5.22E-03	7.84E-03	6.75E-03	2.10E-03	4.70E-04	2.16E+00
6.0E+00	1.03E-02	3.04E-02	1.82E-02	1.99E-02	2.65E-02	3.93E-02	3.99E-02	3.25E-02	3.31E-02	1.62E-02	1.41E-02	1.19E-02	2.67E-02	2.55E-02	3.15E-02	3.11E-02	2.84E-03	4.16E-03	3.15E-03	1.54E-03	2.17E-04	1.65E+00
7.0E+00	1.03E-02	2.83E-02	1.81E-02	1.98E-02	1.85E-02	3.46E-02	3.42E-02	3.15E-02	3.20E-02	1.52E-02	8.31E-03	7.77E-03	1.50E-02	1.41E-02	2.20E-02	2.16E-02	2.68E-03	1.92E-03	1.42E-03	9.37E-04	1.95E-04	1.30E+00
8.0E+00	1.02E-02	2.60E-02	1.79E-02	1.96E-02	1.29E-02	2.93E-02	2.82E-02	3.00E-02	3.04E-02	1.25E-02	6.72E-03	7.04E-03	8.17E-03	7.55E-03	1.52E-02	1.48E-02	2.49E-03	1.04E-03	9.09E-04	5.15E-04	1.85E-04	1.05E+00
1.0E+01	1.00E-02	2.10E-02	1.70E-02	1.90E-02	7.40E-03	1.90E-02	1.70E-02	2.60E-02	2.60E-02	6.00E-03	6.50E-03	6.60E-03	3.20E-03	3.10E-03	7.10E-03	6.80E-03	1.40E-03	8.20E-04	8.30E-04	1.60E-04	1.00E-04	7.40E-01
1.5E+01	9.40E-03	1.10E-02	1.50E-02	1.60E-02	6.10E-03	4.50E-03	3.70E-03	1.40E-02	1.40E-02	1.50E-03	2.40E-03	1.80E-03	2.50E-03	2.40E-03	1.10E-03	1.00E-03	2.40E-04	3.60E-04	2.70E-04	1.00E-04	1.70E-05	3.70E-01
2.0E+01	8.70E-03	4.80E-03	1.20E-02	1.20E-02	4.00E-03	1.90E-03	2.10E-03	6.00E-03	5.70E-03	1.20E-03	5.20E-04	4.70E-04	1.40E-03	1.30E-03	1.80E-04	1.70E-04	2.00E-04	7.30E-05	6.00E-05	6.30E-05	1.50E-05	2.00E-01
3.0E+01	6.90E-03	1.10E-03	6.20E-03	5.40E-03	5.90E-04	1.50E-03	1.60E-03	9.70E-04	8.60E-04	1.90E-04	3.50E-04	3.60E-04	2.50E-04	2.20E-04	8.50E-06	7.70E-06	3.20E-05	4.40E-05	4.50E-05	1.10E-05	2.40E-06	7.50E-02
4.0E+01	5.20E-03	9.20E-04	2.70E-03	2.10E-03	2.00E-04	8.10E-04	6.90E-04	1.70E-04	1.50E-04	4.90E-05	2.00E-04	1.70E-04	4.50E-05	3.80E-05	7.00E-07	6.00E-07	7.70E-06	2.50E-05	2.10E-05	2.10E-06	5.50E-07	3.40E-02
6.0E+01	2.70E-03	6.50E-04	5.50E-04	3.30E-04	1.60E-04	1.60E-04	1.10E-04	1.00E-05	7.50E-06	3.80E-05	4.00E-05	2.60E-05	2.50E-06	1.90E-06	1.40E-08	1.10E-08	6.00E-06	5.20E-06	3.20E-06	1.10E-07	4.30E-07	1.10E-02
1.0E+02	7.10E-04	1.50E-04	4.30E-05	1.70E-05	3.70E-05	1.20E-05	5.00E-06	1.80E-07	1.10E-07	9.10E-06	2.80E-06	1.20E-06	4.40E-08	2.60E-08	8.20E-11	5.40E-11	1.40E-06	3.70E-07	1.50E-07	2.00E-09	1.00E-07	2.00E-03

E[keV]: 6.54E+01 1.13E+01 1.07E+01 9.56E+00 2.60E+00 2.37E+00 2.11E+00 1.72E+00 1.66E+00 5.38E-01 4.37E-01 3.80E-01 2.24E-01 2.14E-01 1.90E-02 1.70E-02 6.50E-02 3.80E-02 3.10E-02 0.00E+00 0.00E+00

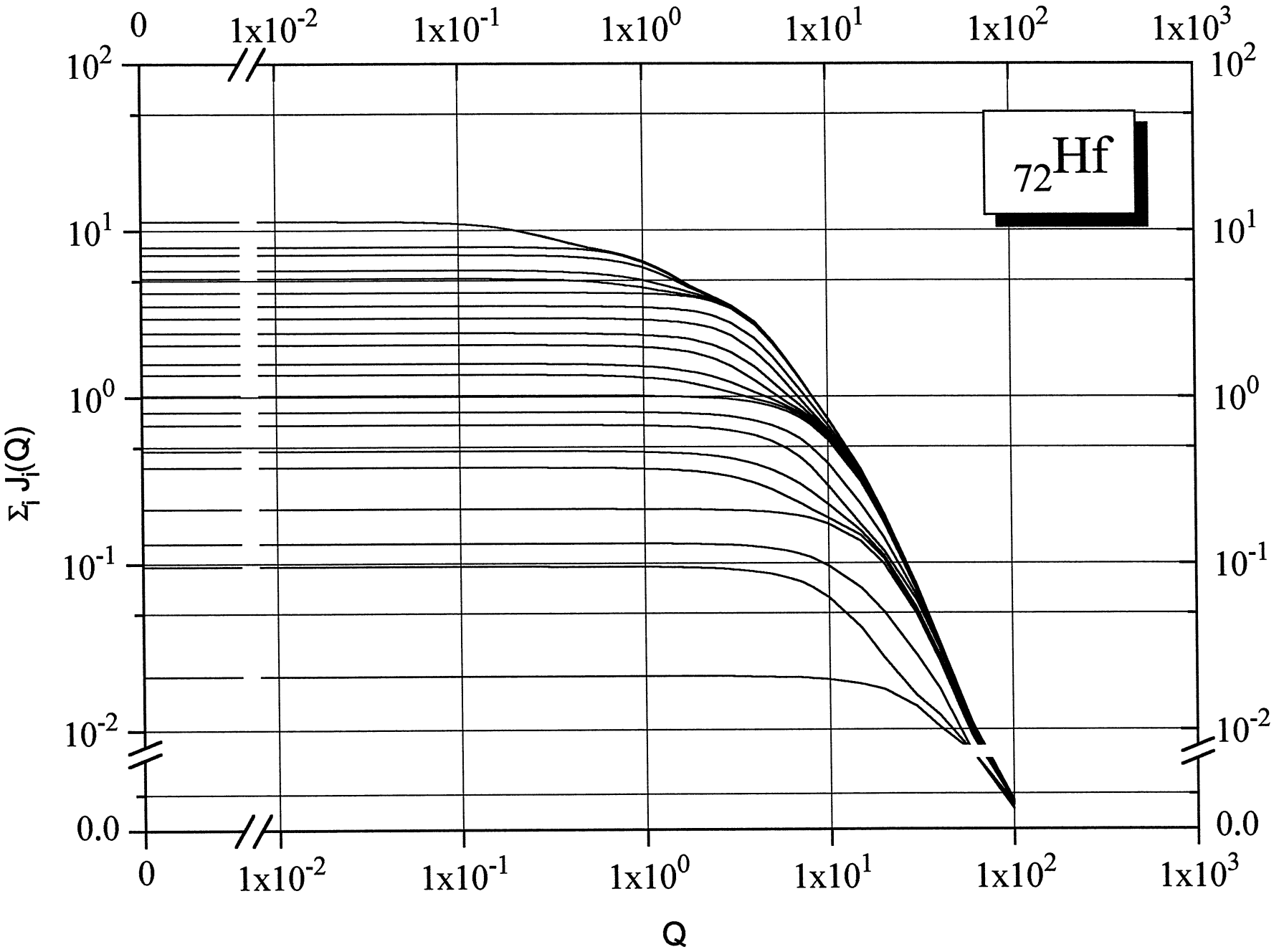
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(2)	5d+(2)	Total
0.0E+00	2.10E-02	9.58E-02	1.32E-01	2.13E-01	3.78E-01	4.75E-01	6.82E-01	8.16E-01	1.02E+00	1.37E+00	1.59E+00	2.06E+00	2.43E+00	2.98E+00	3.52E+00	4.25E+00	5.17E+00	5.80E+00	7.15E+00	8.00E+00	1.14E+01	1.14E+01
5.0E-02	2.10E-02	9.58E-02	1.32E-01	2.13E-01	3.78E-01	4.75E-01	6.82E-01	8.16E-01	1.02E+00	1.37E+00	1.59E+00	2.06E+00	2.43E+00	2.98E+00	3.52E+00	4.25E+00	5.17E+00	5.79E+00	7.15E+00	7.99E+00	1.13E+01	1.13E+01
1.0E-01	2.10E-02	9.58E-02	1.32E-01	2.13E-01	3.78E-01	4.75E-01	6.82E-01	8.16E-01	1.02E+00	1.37E+00	1.59E+00	2.06E+00	2.43E+00	2.98E+00	3.52E+00	4.25E+00	5.16E+00	5.79E+00	7.14E+00	7.98E+00	1.10E+01	1.10E+01
1.5E-01	2.10E-02	9.58E-02	1.32E-01	2.13E-01	3.78E-01	4.75E-01	6.82E-01	8.16E-01	1.02E+00	1.37E+00	1.59E+00	2.06E+00	2.43E+00	2.98E+00	3.52E+00	4.25E+00	5.15E+00	5.77E+00	7.13E+00	7.97E+00	1.06E+01	1.06E+01
2.0E-01	2.10E-02	9.58E-02	1.32E-01	2.13E-01	3.78E-01	4.75E-01	6.82E-01	8.16E-01	1.02E+00	1.37E+00	1.59E+00	2.06E+00	2.43E+00	2.98E+00	3.52E+00	4.25E+00	5.13E+00	5.76E+00	7.11E+00	7.96E+00	1.01E+01	1.01E+01
3.0E-01	2.10E-02	9.58E-02	1.32E-01	2.13E-01	3.78E-01	4.75E-01	6.82E-01	8.16E-01	1.02E+00	1.37E+00	1.59E+00	2.06E+00	2.42E+00	2.98E+00	3.52E+00	4.24E+00	5.08E+00	5.71E+00	7.05E+00	7.89E+00	9.13E+00	9.14E+00
4.0E-01	2.10E-02	9.56E-02	1.32E-01	2.13E-01	3.77E-01	4.74E-01	6.81E-01	8.15E-01	1.02E+00	1.36E+00	1.58E+00	2.05E+00	2.42E+00	2.97E+00	3.51E+00	4.24E+00	5.02E+00	5.64E+00	6.98E+00	7.80E+00	8.42E+00	8.41E+00
5.0E-01	2.10E-02	9.56E-02	1.32E-01	2.13E-01	3.76E-01	4.74E-01	6.80E-01	8.15E-01	1.02E+00	1.36E+00	1.58E+00	2.05E+00	2.41E+00	2.97E+00	3.51E+00	4.23E+00	4.95E+00	5.56E+00	6.87E+00	7.66E+00	7.94E+00	7.94E+00
6.0E-01	2.10E-02	9.56E-02	1.32E-01	2.13E-01	3.76E-01	4.73E-01	6.80E-01	8.14E-01	1.02E+00	1.35E+00	1.57E+00	2.04E+00	2.40E+00	2.96E+00	3.50E+00	4.22E+00	4.86E+00	5.46E+00	6.73E+00	7.47E+00	7.62E+00	7.62E+00
7.0E-01	2.10E-02	9.56E-02	1.32E-01	2.13E-01	3.75E-01	4.72E-01	6.79E-01	8.14E-01	1.02E+00	1.34E+00	1.56E+00	2.03E+00	2.39E+00	2.95E+00	3.49E+00	4.21E+00	4.78E+00	5.36E+00	6.57E+00	7.25E+00	7.35E+00	7.35E+00
8.0E-01	2.10E-02	9.54E-02	1.32E-01	2.12E-01	3.74E-01	4.71E-01	6.78E-01	8.13E-01	1.02E+00	1.33E+00	1.55E+00	2.02E+00	2.39E+00	2.94E+00	3.48E+00	4.21E+00	4.70E+00	5.25E+00	6.39E+00	6.99E+00	7.09E+00	7.09E+00
1.0E+00	2.10E-02	9.54E-02	1.32E-01	2.12E-01	3.72E-01	4.69E-01	6.76E-01	8.10E-01	1.02E+00	1.31E+00	1.53E+00	2.00E+00	2.36E+00	2.92E+00	3.46E+00	4.18E+00	4.53E+00	5.01E+00	5.98E+00	6.44E+00	6.53E+00	6.53E+00
1.2E+00	2.10E-02	9.52E-02	1.32E-01	2.12E-01	3.70E-01	4.67E-01	6.73E-01	8.08E-01	1.01E+00	1.29E+00	1.51E+00	1.97E+00	2.33E+00	2.89E+00	3.42E+00	4.15E+00	4.38E+00	4.78E+00	5.55E+00	5.88E+00	5.95E+00	5.96E+00
1.4E+00	2.10E-02	9.50E-02	1.32E-01	2.12E-01	3.67E-01	4.64E-01	6.70E-01	8.05E-01	1.01E+00	1.27E+00	1.48E+00	1.94E+00	2.30E+00	2.85E+00	3.39E+00	4.11E+00	4.27E+00	4.58E+00	5.16E+00	5.39E+00	5.44E+00	5.43E+00
1.6E+00	2.10E-02	9.46E-02	1.31E-01	2.12E-01	3.63E-01	4.60E-01	6.66E-01	8.01E-01	1.01E+00	1.24E+00	1.45E+00	1.90E+00	2.26E+00	2.81E+00	3.34E+00	4.06E+00	4.16E+00	4.39E+00	4.81E+00	4.96E+00	4.99E+00	4.99E+00
1.8E+00	2.10E-02	9.44E-02	1.31E-01	2.11E-01	3.60E-01	4.57E-01	6.63E-01	7.97E-01	1.00E+00	1.22E+00	1.42E+00	1.86E+00	2.22E+00	2.76E+00	3.29E+00	4.00E+00	4.07E+00	4.24E+00	4.52E+00	4.63E+00	4.64E+00	4.64E+00
2.0E+00	2.10E-02	9.40E-02	1.31E-01	2.11E-01	3.56E-01	4.53E-01	6.58E-01	7.93E-01	9.98E-01	1.18E+00	1.39E+00	1.81E+00	2.16E+00	2.71E+00	3.22E+00	3.92E+00	3.98E+00	4.10E+00	4.29E+00	4.35E+00	4.36E+00	4.36E+00
2.4E+00	2.10E-02	9.34E-02	1.30E-01	2.10E-01	3.47E-01	4.43E-01	6.48E-01	7.82E-01	9.87E-01	1.13E+00	1.32E+00	1.70E+00	2.05E+00	2.58E+00	3.07E+00	3.74E+00	3.79E+00	3.85E+00	3.93E+00	3.96E+00	3.97E+00	3.97E+00
3.0E+00	2.10E-02	9.20E-02	1.29E-01	2.09E-01	3.32E-01	4.27E-01	6.29E-01	7.63E-01	9.68E-01	1.06E+00	1.22E+00	1.53E+00	1.85E+00	2.34E+00	2.78E+00	3.39E+00	3.44E+00	3.47E+00	3.51E+00	3.52E+00	3.53E+00	3.53E+00
4.0E+00	2.08E-02	8.90E-02	1.26E-01	2.06E-01	3.04E-01	3.96E-01	5.89E-01	7.23E-01	9.27E-01	9.73E-01	1.07E+00	1.26E+00	1.52E+00	1.89E+00	2.25E+00	2.72E+00	2.75E+00	2.77E+00	2.81E+00	2.82E+00	2.82E+00	2.82E+00
5.0E+00	2.08E-02	8.56E-02	1.22E-01	2.02E-01	2.76E-01	3.62E-01	5.41E-01	6.74E-01	8.76E-01	9.10E-01	9.65E-01	1.06E+00	1.23E+00	1.49E+00	1.75E+00	2.10E+00	2.11E+00	2.13E+00	2.16E+00	2.16E+00	2.16E+00	2.16E+00
6.0E+00	2.06E-02	8.14E-02	1.18E-01	1.97E-01	2.50E-01	3.29E-01	4.89E-01	6.19E-01	8.17E-01	8.50E-01	8.78E-01	9.25E-01	1.03E+00	1.19E+00	1.37E+00	1.62E+00	1.63E+00	1.64E+00	1.65E+00	1.65E+00	1.65E+00	1.65E+00
7.0E+00	2.06E-02	7.72E-02	1.13E-01	1.93E-01	2.30E-01	2.99E-01	4.36E-01	5.62E-01	7.54E-01	7.84E-01	8.01E-01	8.32E-01	8.92E-01	9.76E-01	1.11E+00	1.28E+00	1.29E+00	1.29E+00	1.30E+00	1.30E+00	1.30E+00	1.30E+00
8.0E+00	2.04E-02	7.24E-02	1.08E-01	1.87E-01	2.12E-01	2.71E-01	3.84E-01	5.04E-01	6.86E-01	7.11E-01	7.25E-01	7.53E-01	7.85E-01	8.31E-01	9.22E-01	1.04E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00
1.0E+01	2.00E-02	6.20E-02	9.60E-02	1.72E-01	1.87E-01	2.25E-01	2.93E-01	3.97E-01	5.53E-01	5.65E-01	5.78E-01	6.04E-01	6.17E-01	6.36E-01	6.78E-01	7.33E-01	7.35E-01	7.37E-01	7.40E-01	7.41E-01	7.41E-01	7.40E-01
1.5E+01	1.88E-02	4.08E-02	7.08E-02	1.35E-01	1.47E-01	1.56E-01	1.71E-01	2.27E-01	3.11E-01	3.14E-01	3.19E-01	3.26E-01	3.36E-01	3.50E-01	3.57E-01	3.65E-01	3.66E-01	3.67E-01	3.67E-01	3.67E-01	3.67E-01	3.70E-01
2.0E+01	1.74E-02	2.70E-02	5.10E-02	9.90E-02	1.07E-01	1.11E-01	1.19E-01	1.43E-01	1.77E-01	1.80E-01	1.81E-01	1.83E-01	1.88E-01	1.96E-01	1.97E-01	1.99E-01	1.99E-01	1.99E-01	1.99E-01	1.99E-01	2.00E-01	2.00E-01
3.0E+01	1.38E-02	1.60E-02	2.94E-02	5.20E-02	5.12E-02	5.42E-02	6.06E-02	6.45E-02	6.96E-02	7.00E-02	7.07E-02	7.21E-02	7.31E-02	7.45E-02	7.45E-02	7.46E-02	7.46E-02	7.47E-02	7.49E-02	7.49E-02	7.49E-02	7.50E-02
4.0E+01	1.04E-02	1.22E-02	1.76E-02	2.60E-02	2.64E-02	2.81E-02	3.08E-02	3.15E-02	3.24E-02	3.25E-02	3.29E-02	3.36E-02	3.38E-02	3.40E-02	3.40E-02	3.40E-02	3.40E-02	3.41E-02	3.41E-02	3.41E-02	3.41E-02	3.40E-02
6.0E+01	5.40E-03	6.70E-03	7.80E-03	9.12E-03	9.44E-03	9.76E-03	1.02E-02	1.02E-02	1.03E-02	1.04E-02	1.04E-02	1.05E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.10E-02
1.0E+02	1.42E-03	1.72E-03	1.81E-03	1.87E-03	1.95E-03	1.97E-03	1.99E-03	1.99E-03	1.99E-03	2.01E-03	2.02E-03	2.02E-03	2.02E-03	2.02E-03	2.02E-03	2.02E-03	2.03E-03	2.03E-03	2.03E-03	2.03E-03	2.03E-03	2.00E-03

E[keV]: 6.54E+01 1.13E+01 1.07E+01 9.56E+00 2.60E+00 2.37E+00 2.11E+00 1.72E+00 1.66E+00 5.38E-01 4.37E-01 3.80E-01 2.24E-01 2.14E-01 1.90E-02 1.70E-02 6.50E-02 3.80E-02 3.10E-02 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																						
0.0E+00	4.21E+00	4.93E+00	5.47E+00	6.82E+00	7.45E+00	8.37E+00	8.93E+00	9.29E+00	9.76E+00	9.98E+00	1.03E+01	1.05E+01	1.07E+01	1.09E+01	1.10E+01	1.11E+01	1.12E+01	1.13E+01	1.13E+01	1.14E+01	1.14E+01	
5.0E-02	4.11E+00	4.83E+00	5.37E+00	6.72E+00	7.35E+00	8.27E+00	8.82E+00	9.19E+00	9.66E+00	9.88E+00	1.02E+01	1.04E+01	1.06E+01	1.08E+01	1.09E+01	1.10E+01	1.11E+01	1.12E+01	1.12E+01	1.13E+01	1.13E+01	
1.0E-01	3.85E+00	4.57E+00	5.11E+00	6.46E+00	7.09E+00	8.00E+00	8.56E+00	8.92E+00	9.39E+00	9.61E+00	9.96E+00	1.02E+01	1.03E+01	1.05E+01	1.06E+01	1.08E+01	1.09E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01	
1.5E-01	3.45E+00	4.17E+00	4.71E+00	6.06E+00	6.69E+00	7.59E+00	8.15E+00	8.51E+00	8.98E+00	9.20E+00	9.55E+00	9.76E+00	9.89E+00	1.01E+01	1.02E+01	1.04E+01	1.04E+01	1.05E+01	1.06E+01	1.06E+01	1.06E+01	
2.0E-01	2.99E+00	3.71E+00	4.25E+00	5.60E+00	6.23E+00	7.11E+00	7.67E+00	8.03E+00	8.51E+00	8.73E+00	9.07E+00	9.28E+00	9.41E+00	9.62E+00	9.72E+00	9.88E+00	9.96E+00	1.00E+01	1.01E+01	1.01E+01	1.01E+01	
3.0E-01	2.08E+00	2.81E+00	3.35E+00	4.69E+00	5.32E+00	6.16E+00	6.71E+00	7.08E+00	7.55E+00	7.77E+00	8.11E+00	8.32E+00	8.45E+00	8.66E+00	8.76E+00	8.92E+00	9.00E+00	9.04E+00	9.11E+00	9.13E+00	9.14E+00	
4.0E-01	1.44E+00	2.17E+00	2.70E+00	4.04E+00	4.66E+00	5.44E+00	6.00E+00	6.36E+00	6.83E+00	7.05E+00	7.39E+00	7.60E+00	7.73E+00	7.94E+00	8.04E+00	8.20E+00	8.28E+00	8.32E+00	8.39E+00	8.42E+00	8.41E+00	
5.0E-01	1.07E+00	1.80E+00	2.34E+00	3.65E+00	4.26E+00	4.97E+00	5.53E+00	5.89E+00	6.37E+00	6.59E+00	6.92E+00	7.13E+00	7.26E+00	7.47E+00	7.57E+00	7.73E+00	7.81E+00	7.85E+00	7.92E+00	7.94E+00	7.94E+00	
6.0E-01	8.87E-01	1.61E+00	2.15E+00	3.42E+00	4.02E+00	4.66E+00	5.22E+00	5.58E+00	6.05E+00	6.27E+00	6.60E+00	6.80E+00	6.94E+00	7.14E+00	7.24E+00	7.40E+00	7.49E+00	7.52E+00	7.60E+00	7.62E+00	7.62E+00	
7.0E-01	7.83E-01	1.51E+00	2.05E+00	3.26E+00	3.84E+00	4.40E+00	4.96E+00	5.32E+00	5.79E+00	6.01E+00	6.33E+00	6.54E+00	6.67E+00	6.88E+00	6.98E+00	7.14E+00	7.22E+00	7.25E+00	7.33E+00	7.35E+00	7.35E+00	
8.0E-01	7.03E-01	1.43E+00	1.97E+00	3.11E+00	3.66E+00	4.15E+00	4.71E+00	5.07E+00	5.54E+00	5.76E+00	6.07E+00	6.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Compton profiles for the single orbitals and binding energies

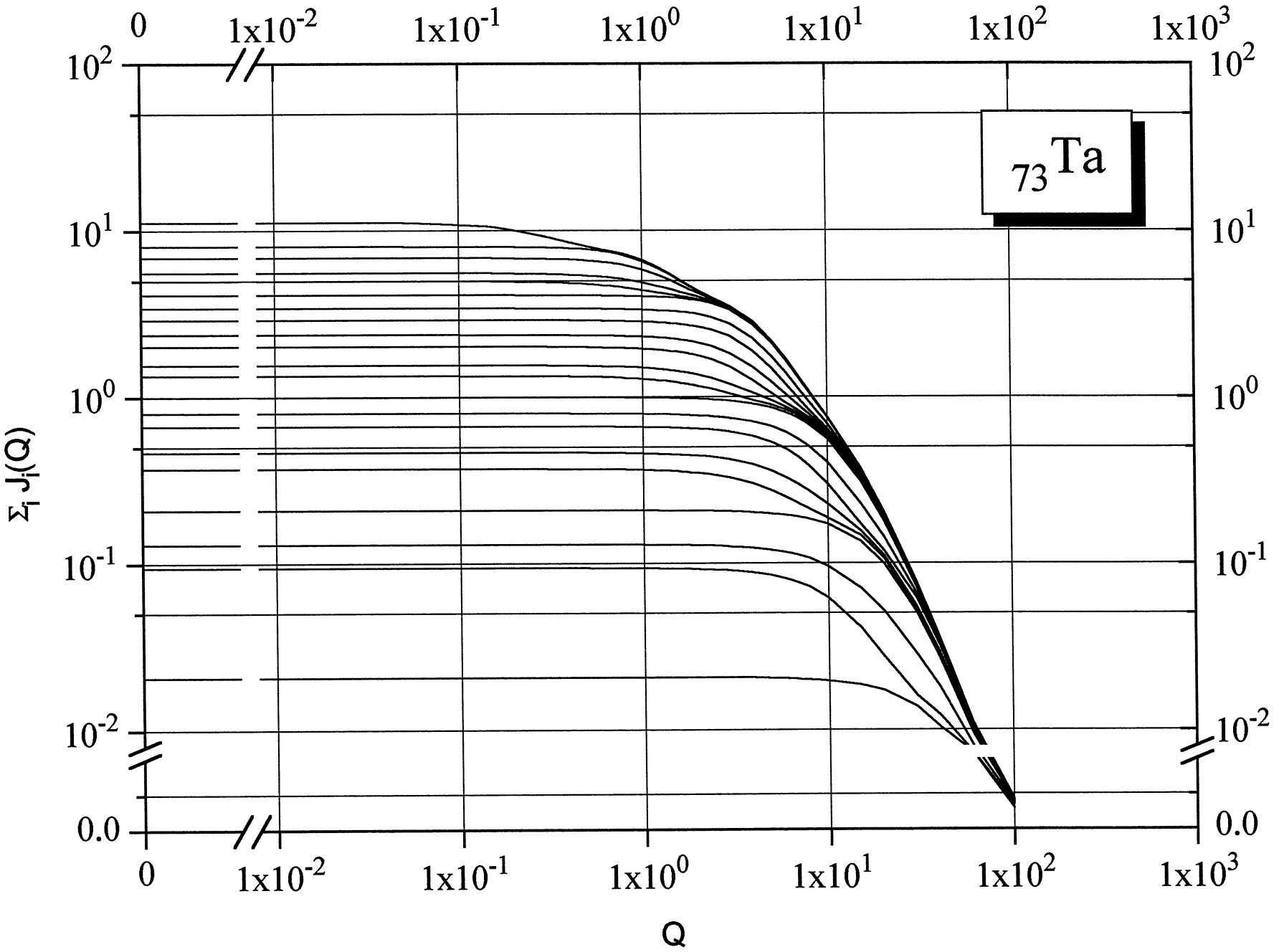
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(3)	5d+(2)	Total
0.0E+00	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.11E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.71E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	4.43E-01	3.02E-01	3.24E-01	3.82E-01	1.61E+00	1.13E+01
5.0E-02	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.11E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.71E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	4.42E-01	3.02E-01	3.24E-01	3.82E-01	1.56E+00	1.12E+01
1.0E-01	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.10E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.71E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	4.39E-01	3.02E-01	3.24E-01	3.82E-01	1.44E+00	1.09E+01
1.5E-01	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.10E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.70E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	4.34E-01	3.02E-01	3.24E-01	3.82E-01	1.27E+00	1.06E+01
2.0E-01	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.10E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.70E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	4.27E-01	3.02E-01	3.24E-01	3.82E-01	1.06E+00	1.01E+01
3.0E-01	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.08E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.68E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	4.07E-01	3.01E-01	3.23E-01	3.81E-01	6.40E-01	9.24E+00
4.0E-01	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.06E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.67E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	3.81E-01	2.99E-01	3.20E-01	3.76E-01	3.33E-01	8.54E+00
5.0E-01	1.03E-02	3.67E-02	1.80E-02	1.98E-02	8.04E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.64E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	3.50E-01	2.95E-01	3.15E-01	3.67E-01	1.59E-01	8.07E+00
6.0E-01	1.03E-02	3.66E-02	1.80E-02	1.98E-02	8.01E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.62E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	3.16E-01	2.89E-01	3.06E-01	3.50E-01	8.06E-02	7.74E+00
7.0E-01	1.03E-02	3.66E-02	1.80E-02	1.98E-02	7.98E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.58E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.53E-02	8.58E-02	2.81E-01	2.80E-01	2.95E-01	3.28E-01	5.42E-02	7.48E+00
8.0E-01	1.03E-02	3.66E-02	1.80E-02	1.98E-02	7.94E-02	4.76E-02	5.08E-02	3.30E-02	3.37E-02	1.55E-01	1.08E-01	1.15E-01	8.85E-02	9.05E-02	8.52E-02	8.59E-02	2.45E-01	2.68E-01	2.80E-01	3.01E-01	4.87E-02	7.22E+00
1.0E+00	1.03E-02	3.65E-02	1.80E-02	1.98E-02	7.85E-02	4.76E-02	5.07E-02	3.30E-02	3.37E-02	1.47E-01	1.07E-01	1.14E-01	8.85E-02	9.04E-02	8.52E-02	8.58E-02	1.78E-01	2.37E-01	2.41E-01	2.41E-01	4.72E-02	6.67E+00
1.2E+00	1.03E-02	3.64E-02	1.80E-02	1.98E-02	7.74E-02	4.76E-02	5.07E-02	3.30E-02	3.37E-02	1.37E-01	1.07E-01	1.13E-01	8.84E-02	9.04E-02	8.51E-02	8.57E-02	1.23E-01	2.00E-01	1.96E-01	1.82E-01	3.88E-12	6.08E+00
1.4E+00	1.03E-02	3.63E-02	1.80E-02	1.98E-02	7.61E-02	4.76E-02	5.07E-02	3.30E-02	3.37E-02	1.27E-01	1.05E-01	1.12E-01	8.82E-02	9.02E-02	8.48E-02	8.55E-02	8.27E-02	1.60E-01	1.51E-01	1.33E-01	2.69E-02	5.53E+00
1.6E+00	1.03E-02	3.62E-02	1.80E-02	1.98E-02	7.47E-02	4.76E-02	5.07E-02	3.30E-02	3.37E-02	1.16E-01	1.04E-01	1.10E-01	8.80E-02	8.99E-02	8.44E-02	8.51E-02	5.61E-02	1.22E-01	1.10E-01	9.41E-02	1.66E-02	5.06E+00
1.8E+00	1.03E-02	3.61E-02	1.80E-02	1.98E-02	7.31E-02	4.75E-02	5.06E-02	3.30E-02	3.37E-02	1.05E-01	1.02E-01	1.07E-01	8.76E-02	8.94E-02	8.37E-02	8.44E-02	4.08E-02	8.96E-02	7.73E-02	6.51E-02	9.61E-03	4.68E+00
2.0E+00	1.03E-02	3.59E-02	1.80E-02	1.98E-02	7.13E-02	4.75E-02	5.05E-02	3.30E-02	3.37E-02	9.35E-02	9.93E-02	1.04E-01	8.69E-02	8.87E-02	8.28E-02	8.35E-02	3.33E-02	6.35E-02	5.25E-02	4.41E-02	5.56E-03	4.37E+00
2.4E+00	1.03E-02	3.56E-02	1.80E-02	1.98E-02	6.75E-02	4.72E-02	5.03E-02	3.29E-02	3.36E-02	7.27E-02	9.25E-02	9.51E-02	8.49E-02	8.64E-02	8.00E-02	8.07E-02	2.98E-02	3.04E-02	2.39E-02	1.95E-02	2.71E-03	3.94E+00
2.8E+00	1.03E-02	3.49E-02	1.80E-02	1.98E-02	6.09E-02	4.68E-02	4.96E-02	3.29E-02	3.36E-02	4.71E-02	7.88E-02	7.84E-02	7.92E-02	8.02E-02	7.37E-02	7.43E-02	2.84E-02	1.30E-02	1.21E-02	5.87E-03	2.42E-03	3.51E+00
4.0E+00	1.03E-02	3.36E-02	1.80E-02	1.98E-02	4.90E-02	4.53E-02	4.76E-02	3.28E-02	3.35E-02	2.32E-02	5.20E-02	4.82E-02	6.37E-02	6.35E-02	5.99E-02	6.01E-02	1.58E-02	1.08E-02	1.11E-02	2.60E-03	1.54E-03	2.84E+00
5.0E+00	1.02E-02	3.20E-02	1.79E-02	1.97E-02	3.73E-02	4.27E-02	4.43E-02	3.26E-02	3.32E-02	1.65E-02	2.92E-02	2.50E-02	4.49E-02	4.38E-02	4.56E-02	4.55E-02	5.91E-03	8.41E-03	7.45E-03	2.49E-03	5.70E-04	2.20E+00
6.0E+00	1.02E-02	3.01E-02	1.79E-02	1.96E-02	2.71E-02	3.91E-02	3.98E-02	3.20E-02	3.26E-02	1.60E-02	1.51E-02	1.26E-02	2.81E-02	2.69E-02	3.33E-02	3.30E-02	2.99E-03	4.68E-03	3.63E-03	1.91E-03	2.45E-04	1.70E+00
7.0E+00	1.01E-02	2.80E-02	1.78E-02	1.95E-02	1.90E-02	3.45E-02	3.43E-02	3.11E-02	3.16E-02	1.52E-02	8.67E-03	7.94E-03	1.62E-02	1.51E-02	2.36E-02	2.33E-02	2.73E-03	2.20E-03	1.63E-03	1.21E-03	2.08E-04	1.33E+00
8.0E+00	1.00E-02	2.59E-02	1.76E-02	1.93E-02	1.33E-02	2.95E-02	2.85E-02	2.97E-02	3.01E-02	1.28E-02	6.73E-03	6.98E-03	8.91E-03	8.22E-03	1.65E-02	1.62E-02	2.59E-03	1.15E-03	9.81E-04	6.80E-04	2.01E-04	1.08E+00
1.0E+01	9.80E-03	2.10E-02	1.70E-02	1.90E-02	7.50E-03	2.00E-02	1.80E-02	2.60E-02	2.60E-02	6.40E-03	6.40E-03	6.60E-03	3.40E-03	3.20E-03	7.90E-03	7.60E-03	1.50E-03	8.40E-04	8.70E-04	2.10E-04	1.20E-04	7.60E-01
1.5E+01	9.30E-03	1.10E-02	1.50E-02	1.60E-02	6.10E-03	4.80E-03	3.90E-03	1.40E-02	1.40E-02	1.50E-03	2.50E-03	2.00E-03	2.50E-03	2.50E-03	1.20E-03	1.20E-03	2.50E-04	4.00E-04	3.00E-04	1.20E-04	1.90E-05	3.70E-01
2.0E+01	8.60E-03	5.00E-03	1.20E-02	1.20E-02	4.10E-03	1.90E-03	2.00E-03	6.30E-03	6.00E-03	1.30E-03	5.60E-04	4.90E-04	1.50E-03	1.40E-03	2.10E-04	2.00E-04	2.10E-04	8.30E-05	6.60E-05	7.80E-05	1.60E-05	2.00E-01
3.0E+01	6.90E-03	1.10E-03	6.30E-03	5.50E-03	6.50E-04	1.60E-03	1.60E-03	1.00E-03	9.30E-04	2.20E-04	3.50E-04	3.70E-04	2.70E-04	2.40E-04	1.00E-05	9.30E-06	3.80E-05	4.60E-05	4.80E-05	1.50E-05	2.90E-06	7.70E-02
4.0E+01	5.20E-03	9.00E-04	2.90E-03	2.20E-03	2.00E-04	8.50E-04	7.20E-04	1.90E-04	1.60E-04	4.90E-05	2.10E-04	1.80E-04	5.00E-05	4.20E-05	8.60E-07	7.50E-07	8.10E-06	2.80E-05	2.30E-05	2.70E-06	6.10E-07	3.50E-02
6.0E+01	2.80E-03	6.60E-04	5.90E-04	3.60E-04	1.60E-04	1.80E-04	1.10E-04	1.10E-05	8.40E-06	3.90E-05	4.30E-05	2.80E-05	2.90E-06	2.10E-06	1.80E-08	1.40E-08	6.30E-06	5.80E-06	3.60E-06	1.60E-07	4.80E-07	1.10E-02
1.0E+02	7.40E-04	1.60E-04	4.80E-05	1.90E-05	4.00E-05	1.30E-05	5.50E-06	2.10E-07	1.20E-07	9.70E-06	3.20E-06	1.30E-06	5.20E-08	3.00E-08	1.00E-10	6.90E-11	1.60E-06	4.30E-07	1.70E-07	2.80E-09	1.20E-07	2.10E-03
E[keV]:	6.74E+01	1.17E+01	1.11E+01	9.88E+00	2.70E+00	2.47E+00	2.19E+00	1.79E+00	1.73E+00	5.63E-01	4.62E-01	4.02E-01	2.39E-01	2.27E-01	2.50E-02	2.30E-02	6.80E-02	4.20E-02	3.40E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(3)	5d+(2)	Total
0.0E+00	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.71E-01	4.67E-01	6.70E-01	8.02E-01	1.00E+00	1.35E+00	1.56E+00	2.02E+00	2.38E+00	2.92E+00	3.43E+00	4.12E+00	5.00E+00	5.61E+00	6.90E+00	8.05E+00	1.13E+01	1.13E+01
5.0E-02	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.71E-01	4.67E-01	6.70E-01	8.02E-01	1.00E+00	1.35E+00	1.56E+00	2.02E+00	2.38E+00	2.92E+00	3.43E+00	4.12E+00	5.00E+00	5.61E+00	6.90E+00	8.05E+00	1.12E+01	1.12E+01
1.0E-01	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.71E-01	4.66E-01	6.70E-01	8.02E-01	1.00E+00	1.35E+00	1.56E+00	2.02E+00	2.38E+00	2.92E+00	3.43E+00	4.12E+00	5.00E+00	5.60E+00	6.90E+00	8.04E+00	1.09E+01	1.09E+01
1.5E-01	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.71E-01	4.66E-01	6.70E-01	8.02E-01	1.00E+00	1.34E+00	1.56E+00	2.02E+00	2.37E+00	2.92E+00	3.43E+00	4.12E+00	4.98E+00	5.59E+00	6.88E+00	8.03E+00	1.06E+01	1.06E+01
2.0E-01	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.71E-01	4.66E-01	6.70E-01	8.02E-01	1.00E+00	1.34E+00	1.56E+00	2.02E+00	2.37E+00	2.92E+00	3.43E+00	4.12E+00	4.97E+00	5.57E+00	6.87E+00	8.02E+00	1.01E+01	1.01E+01
3.0E-01	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.71E-01	4.66E-01	6.69E-01	8.01E-01	1.00E+00	1.34E+00	1.56E+00	2.02E+00	2.37E+00	2.91E+00	3.42E+00	4.11E+00	4.92E+00	5.53E+00	6.82E+00	7.96E+00	9.24E+00	9.24E+00
4.0E-01	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.70E-01	4.66E-01	6.69E-01	8.01E-01	1.00E+00	1.34E+00	1.55E+00	2.01E+00	2.37E+00	2.91E+00	3.42E+00	4.11E+00	4.87E+00	5.47E+00	6.75E+00	7.88E+00	8.54E+00	8.54E+00
5.0E-01	2.06E-02	9.40E-02	1.30E-01	2.09E-01	3.70E-01	4.65E-01	6.68E-01	8.00E-01	1.00E+00	1.33E+00	1.55E+00	2.01E+00	2.36E+00	2.90E+00	3.42E+00	4.10E+00	4.80E+00	5.39E+00	6.65E+00	7.75E+00	8.07E+00	8.07E+00
6.0E-01	2.06E-02	9.38E-02	1.30E-01	2.09E-01	3.69E-01	4.64E-01	6.68E-01	8.00E-01	1.00E+00	1.33E+00	1.54E+00	2.00E+00	2.36E+00	2.90E+00	3.41E+00	4.10E+00	4.73E+00	5.31E+00	6.53E+00	7.58E+00	7.74E+00	7.74E+00
7.0E-01	2.06E-02	9.38E-02	1.30E-01	2.09E-01	3.69E-01	4.64E-01	6.67E-01	7.99E-01	1.00E+00	1.32E+00	1.53E+00	1.99E+00	2.35E+00	2.89E+00	3.40E+00	4.09E+00	4.65E+00	5.21E+00	6.39E+00	7.37E+00	7.48E+00	7.48E+00
8.0E-01	2.06E-02	9.38E-02	1.30E-01	2.09E-01	3.68E-01	4.63E-01	6.66E-01	7.98E-01	1.00E+00	1.31E+00	1.53E+00	1.99E+00	2.34E+00	2.88E+00	3.39E+00	4.08E+00	4.57E+00	5.11E+00	6.23E+00	7.13E+00	7.23E+00	7.22E+00
1.0E+00	2.06E-02	9.36E-02	1.30E-01	2.09E-01	3.66E-01	4.61E-01	6.64E-01	7.96E-01	9.98E-01	1.29E+00	1.51E+00	1.96E+00	2.32E+00	2.86E+00	3.37E+00	4.06E+00	4.41E+00	4.89E+00	5.85E+00	6.57E+00	6.67E+00	6.67E+00
1.2E+00	2.06E-02	9.34E-02	1.29E-01	2.09E-01	3.63E-01	4.59E-01	6.61E-01	7.93E-01	9.96E-01	1.27E+00	1.48E+00	1.94E+00	2.29E+00	2.83E+00	3.34E+00	4.03E+00	4.27E+00	4.67E+00	5.46E+00	6.00E+00	6.00E+00	6.00E+00
1.4E+00	2.06E-02	9.32E-02	1.29E-01	2.08E-01	3.61E-01	4.56E-01	6.59E-01	7.91E-01	9.93E-01	1.25E+00	1.46E+00	1.90E+00	2.26E+00	2.80E+00	3.31E+00	3.99E+00	4.16E+00	4.48E+00	5.08E+00	5.48E+00	5.53E+00	5.53E+00
1.6E+00	2.06E-02	9.30E-02	1.29E-01	2.08E-01	3.58E-01	4.53E-01	6.56E-01	7.88E-01	9.90E-01	1.22E+00	1.42E+00	1.87E+00	2.22E+00	2.76E+00	3.27E+00	3.95E+00	4.06E+00	4.30E+00	4.74E+00	5.03E+00	5.06E+00	5.06E+00
1.8E+00	2.06E-02	9.28E-02	1.29E-01	2.08E-01	3.54E-01	4.49E-01	6.52E-01	7.84E-01	9.86E-01	1.20E+00	1.40E+00	1.83E+00	2.18E+00	2.71E+00	3.22E+00	3.89E+00	3.97E+00	4.15E+00	4.46E+00	4.66E+00	4.68E+00	4.68E+00
2.0E+00	2.06E-02	9.24E-02	1.28E-01	2.08E-01	3.50E-01	4.45E-01	6.47E-01	7.79E-01	9.81E-01	1.17E+00	1.37E+00	1.78E+00	2.13E+00	2.66E+00	3.16E+00	3.83E+00	3.89E+00	4.02E+00	4.23E+00	4.36E+00	4.37E+00	4.37E+00
2.4E+00	2.06E-02	9.18E-02	1.28E-01	2.07E-01	3.42E-01	4.37E-01	6.38E-01	7.69E-01	9.71E-01	1.12E+00	1.30E+00	1.68E+00	2.02E+00	2.54E+00	3.02E+00	3.67E+00	3.73E+00	3.79E+00	3.88E+00	3.94E+00	3.95E+00	3.94E+00
3.0E+00	2.06E-02	9.04E-02	1.26E-01	2.06E-01	3.27E-01	4.21E-01	6.19E-01	7.51E-01	9.53E-01	1.05E+00	1.20E+00	1.52E+00	1.83E+00	2.32E+00	2.76E+00	3.35E+00	3.41E+00	3.44E+00	3.48E+00	3.50E+00	3.51E+00	3.51E+00
4.0E+00	2.06E-02	8.78E-02	1.24E-01	2.03E-01	3.01E-01	3.92E-01	5.82E-01	7.13E-01	9.14E-01	9.61E-01	1.06E+00	1.26E+00	1.51E+00	1.89E+00	2.25E+00	2.73E+00	2.76E+00	2.79E+00	2.83E+00	2.84E+00	2.84E+00	2.84E+00
5.0E+00	2.04E-02	8.44E-02	1.20E-01	1.99E-01	2.74E-01	3.59E-01	5.36E-01	6.67E-01	8.66E-01	8.99E-01	9.57E-01	1.06E+00	1.24E+00	1.50E+00	1.77E+00	2.14E+00	2.15E+00	2.17E+00	2.20E+00	2.20E+00	2.20E+00	2.20E+00
6.0E+00	2.04E-02	8.06E-02	1.16E-01	1.95E-01	2.49E-01	3.27E-01	4.86E-01	6.14E-01	8.10E-01	8.42E-01	8.72E-01	9.23E-01	1.04E+00	1.20E+00	1.40E+00	1.66E+00	1.67E+00	1.68E+00	1.69E+00	1.70E+00	1.70E+00	1.70E+00
7.0E+00	2.02E-02	7.62E-02	1.12E-01	1.90E-01	2.28E-01	2.97E-01	4.34E-01	5.58E-01	7.48E-01	7.78E-01	7.96E-01	8.28E-01	8.92E-01	9.83E-01	1.12E+00	1.31E+00	1.32E+00	1.32E+00	1.33E+00	1.33E+00	1.33E+00	1.33E+00
8.0E+00	2.00E-02	7.18E-02	1.07E-01	1.84E-01	2.11E-01	2.70E-01	3.84E-01	5.03E-01	6.83E-01	7.09E-01	7.22E-01	7.50E-01	7.86E-01	8.35E-01	9.34E-01	1.06E+00	1.07E+00	1.07E+00	1.08E+00	1.08E+00	1.08E+00	1.08E+00
1.0E+01	1.96E-02	6.16E-02	9.56E-02	1.72E-01	1.87E-01	2.27E-01	2.99E-01	4.03E-01	5.59E-01	5.71E-01	5.84E-01	6.11E-01	6.24E-01	6.43E-01	6.91E-01	7.52E-01	7.55E-01	7.56E-01	7.60E-01	7.60E-01	7.61E-01	7.60E-01
1.5E+01	1.86E-02	4.06E-02	7.06E-02	1.35E-01	1.47E-01	1.56E-01	1.72E-01	2.28E-01	3.29E-01	3.26E-01	3.29E-01	3.29E-01	3.33E-01	3.53E-01	3.60E-01	3.70E-01	3.70E-01	3.71E-01	3.72E-01	3.73E-01	3.73E-01	3.70E-01
2.0E+01	1.72E-02	2.72E-02	5.12E-02	9.42E-02	1.07E-01	1.11E-01	1.19E-01	1.44E-01	1.80E-01	1.83E-01	1.84E-01	1.86E-01	1.92E-01	2.00E-01	2.02E-01	2.03E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.00E-01
3.0E+01	1.38E-02	1.60E-02	2.86E-02	5.06E-02	5.19E-02	5.51E-02	6.15E-02	6.55E-02	7.11E-02	7.15E-02	7.22E-02	7.37E-02	7.48E-02	7.62E-02	7.63E-02	7.64E-02	7.64E-02	7.65E-02	7.67E-02	7.68E-02	7.68E-02	7.70E-02
4.0E+01	1.04E-02	1.22E-02	1.80E-02	2.68E-02	2.72E-02	2.89E-02	3.18E-02	3.25E-02	3.35E-02	3.36E-02	3.40E-02	3.47E-02	3.49E-02	3.52E-02	3.52E-02	3.52E-02	3.52E-02	3.53E-02	3.54E-02	3.54E-02	3.54E-02	3.50E-02
6.0E+01	5.60E-03	6.92E-03	8.10E-03	9.54E-03	9.86E-03	1.02E-02	1.07E-02	1.07E-02	1.08E-02	1.08E-02	1.09E-02	1.10E-02	1.10E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.10E-02
1.0E+02	1.48E-03	1.80E-03	1.90E-03	1.97E-03	2.05E-03	2.08E-03	2.10E-03	2.10E-03	2.10E-03	2.12E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.14E-03	2.14E-03	2.14E-03	2.14E-03	2.14E-03	2.10E-03
E[keV]:	6.74E+01	1.17E+01	1.11E+01	9.88E+00	2.70E+00	2.47E+00	2.19E+00	1.79E+00	1.73E+00	5.63E-01	4.62E-01	4.02E-01	2.39E-01	2.27E-01	2.50E-02	2.30E-02	6.80E-02	4.20E-02	3.40E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																						
0.0E+00	4.37E+00	5.05E+00	5.56E+00	6.86E+00	7.46E+00	8.35E+00	8.89E+00	9.25E+00	9.71E+00	9.92E+00	1.03E+01	1.05E+01	1.06E+01	1.08E+01	1.09E+01	1.11E+01	1.11E+01	1.12E+01	1.12E+01	1.13E+01	1.13E+01	
5.0E-02	4.27E+00	4.95E+00	5.46E+00	6.76E+00	7.36E+00	8.25E+00	8.79E+00	9.15E+00	9.61E+00	9.82E+00	1.02E+01	1.04E+01	1.05E+01	1.07E+01	1.08E+01	1.10E+01	1.10E+01	1.11E+01	1.11E+01	1.12E+01	1.12E+01	
1.0E-01	4.03E+00	4.71E+00	5.22E+00	6.52E+00	7.12E+00	8.00E+00	8.55E+00	8.90E+00	9.36E+00	9.58E+00	9.92E+00	1.01E+01	1.03E+01	1.05E+01	1.05E+01	1.07E+01	1.08E+01	1.08E+01	1.09E+01	1.09E+01	1.09E+01	
1.5E-01	3.69E+00	4.37E+00	4.88E+00	6.18E+00	6.78E+00	7.65E+00	8.20E+00	8.55E+00	9.01E+00	9.23E+00	9.57E+00	9.77E+00	9.90E+00	1.01E+01	1.02E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.06E+01	1.06E+01	
2.0E-01	3.27E+00	3.95E+00	4.46E+00	5.76E+00	6.36E+00	7.22E+00	7.76E+00	8.12E+00	8.58E+00	8.79E+00	9.13E+00	9.33E+00	9.47E+00	9.67E+00	9.76E+00	9.93E+00	1.00E+01	1.00E+01	1.01E+01	1.01E+01	1.01E+01	
3.0E-01	2.42E+00	3.11E+00	3.62E+00	4.91E+00	5.52E+00	6.33E+00	6.87E+00	7.23E+00	7.69E+00	7.90E+00	8.24E+00	8.44E+00	8.57E+00	8.78E+00	8.87E+00	9.03E+00	9.11E+00	9.15E+00	9.22E+00	9.24E+00	9.24E+00	
4.0E-01	1.79E+00	2.48E+00	2.99E+00	4.27E+00	4.87E+00	5.63E+00	6.18E+00	6.53E+00	6.99E+00	7.21E+00	7.54E+00	7.74E+00	7.87E+00	8.08E+00	8.17E+00	8.33E+00	8.41E+00	8.45E+00	8.52E+00	8.54E+00	8.54E+00	
5.0E-01	1.42E+00	2.11E+00	2.62E+00	3.88E+00	4.47E+00	5.17E+00	5.71E+00	6.06E+00	6.52E+00	6.74E+00	7.07E+00	7.27E+00	7.40E+00	7.61E+00	7.70E+00	7.86E+00	7.94E+00	7.98E+00	8.05E+00	8.07E+00	8.07E+00	
6.0E-01	1.21E+00	1.90E+00	2.41E+00	3.63E+00	4.21E+00	4.84E+00	5.39E+00	5.74E+00	6.20E+00	6.42E+00	6.74E+00	6.94E+00	7.07E+00	7.28E+00	7.37E+00	7.53E+00	7.61E+00	7.65E+00	7.72E+00	7.74E+00	7.74E+00	
7.0E-01	1.09E+00	1.78E+00	2.29E+00	3.47E+00	4.03E+00	4.59E+00	5.14E+00	5.49E+00	5.95E+00	6.17E+00	6.48E+00	6.68E+00	6.82E+00	7.02E+00	7.11E+00	7.27E+00	7.35E+00	7.39E+00	7.46E+00	7.48E+00	7.48E+00	
8.0E-01	1.00E+00	1.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10-2
0.0
73Ta
Σi Ji(Q)
Q

Z=74

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(2)	Total
0.0E+00	1.01E-02	3.61E-02	1.77E-02	1.95E-02	7.96E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.67E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	4.27E-01	2.91E-01	3.11E-01	3.52E-01	1.55E+00	1.12E+01
5.0E-02	1.01E-02	3.61E-02	1.77E-02	1.95E-02	7.96E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.67E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	4.26E-01	2.91E-01	3.11E-01	3.52E-01	1.51E+00	1.11E+01
1.0E-01	1.01E-02	3.61E-02	1.77E-02	1.95E-02	7.95E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.67E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	4.23E-01	2.91E-01	3.11E-01	3.52E-01	1.40E+00	1.09E+01
1.5E-01	1.01E-02	3.61E-02	1.77E-02	1.95E-02	7.95E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.66E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	4.18E-01	2.91E-01	3.11E-01	3.52E-01	1.24E+00	1.05E+01
2.0E-01	1.01E-02	3.61E-02	1.77E-02	1.95E-02	7.95E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.66E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	4.12E-01	2.91E-01	3.11E-01	3.52E-01	1.04E+00	1.01E+01
3.0E-01	1.01E-02	3.60E-02	1.77E-02	1.95E-02	7.93E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.65E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	3.94E-01	2.90E-01	3.10E-01	3.51E-01	6.54E-01	9.32E+00
4.0E-01	1.01E-02	3.60E-02	1.77E-02	1.95E-02	7.92E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.63E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	3.71E-01	2.89E-01	3.08E-01	3.49E-01	3.54E-01	8.64E+00
5.0E-01	1.01E-02	3.60E-02	1.77E-02	1.95E-02	7.89E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.61E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	3.42E-01	2.85E-01	3.03E-01	3.42E-01	1.74E-01	8.17E+00
6.0E-01	1.01E-02	3.60E-02	1.77E-02	1.95E-02	7.87E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.58E-01	1.05E-01	1.13E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	3.11E-01	2.80E-01	2.96E-01	3.31E-01	8.85E-02	7.85E+00
7.0E-01	1.01E-02	3.60E-02	1.77E-02	1.95E-02	7.84E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.55E-01	1.05E-01	1.12E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	2.78E-01	2.72E-01	2.86E-01	3.15E-01	5.62E-02	7.59E+00
8.0E-01	1.01E-02	3.59E-02	1.77E-02	1.95E-02	7.80E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.52E-01	1.05E-01	1.12E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	2.45E-01	2.62E-01	2.73E-01	2.95E-01	4.78E-02	7.34E+00
1.0E+00	1.01E-02	3.59E-02	1.77E-02	1.95E-02	7.71E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.44E-01	1.05E-01	1.12E-01	8.63E-02	8.83E-02	8.13E-02	8.17E-02	1.82E-01	2.34E-01	2.39E-01	2.45E-01	4.65E-02	6.80E+00
1.2E+00	1.01E-02	3.58E-02	1.77E-02	1.95E-02	7.61E-02	4.67E-02	4.99E-02	3.24E-02	3.31E-02	1.35E-01	1.04E-01	1.11E-01	8.62E-02	8.82E-02	8.12E-02	8.16E-02	1.28E-01	2.00E-01	1.98E-01	1.94E-01	4.00E-02	6.22E+00
1.4E+00	1.01E-02	3.57E-02	1.77E-02	1.95E-02	7.49E-02	4.67E-02	4.98E-02	3.24E-02	3.31E-02	1.25E-01	1.03E-01	1.10E-01	8.61E-02	8.81E-02	8.11E-02	8.15E-02	8.75E-02	1.63E-01	1.56E-01	1.47E-01	2.91E-02	5.65E+00
1.6E+00	1.01E-02	3.56E-02	1.77E-02	1.95E-02	7.35E-02	4.67E-02	4.98E-02	3.24E-02	3.31E-02	1.15E-01	1.02E-01	1.08E-01	8.59E-02	8.78E-02	8.08E-02	8.12E-02	5.99E-02	1.27E-01	1.17E-01	1.08E-01	1.88E-02	5.15E+00
1.8E+00	1.01E-02	3.54E-02	1.76E-02	1.95E-02	7.20E-02	4.66E-02	4.97E-02	3.24E-02	3.31E-02	1.04E-01	1.00E-01	1.05E-01	8.55E-02	8.74E-02	8.03E-02	8.08E-02	4.32E-02	9.54E-02	8.37E-02	7.69E-02	1.13E-02	4.74E+00
2.0E+00	1.01E-02	3.53E-02	1.76E-02	1.95E-02	7.03E-02	4.66E-02	4.97E-02	3.24E-02	3.31E-02	9.37E-02	9.77E-02	1.02E-01	8.50E-02	8.68E-02	7.95E-02	8.01E-02	3.45E-02	6.91E-02	5.81E-02	5.27E-02	6.66E-03	4.40E+00
2.4E+00	1.01E-02	3.50E-02	1.76E-02	1.95E-02	6.67E-02	4.64E-02	4.94E-02	3.24E-02	3.31E-02	7.35E-02	9.14E-02	9.43E-02	8.32E-02	8.48E-02	7.75E-02	7.81E-02	2.97E-02	3.41E-02	2.71E-02	2.50E-02	2.99E-03	3.94E+00
3.0E+00	1.01E-02	3.44E-02	1.76E-02	1.95E-02	6.04E-02	4.60E-02	4.89E-02	3.23E-02	3.30E-02	4.83E-02	7.87E-02	7.86E-02	7.82E-02	7.92E-02	7.24E-02	7.30E-02	2.87E-02	1.40E-02	1.28E-02	7.77E-03	2.48E-03	3.49E+00
4.0E+00	1.01E-02	3.31E-02	1.76E-02	1.95E-02	4.89E-02	4.46E-02	4.70E-02	3.23E-02	3.29E-02	2.39E-02	5.31E-02	4.94E-02	6.39E-02	6.38E-02	6.03E-02	6.06E-02	1.71E-02	1.09E-02	1.14E-02	2.93E-03	1.72E-03	2.86E+00
5.0E+00	1.00E-02	3.16E-02	1.76E-02	1.94E-02	3.76E-02	4.22E-02	4.39E-02	3.20E-02	3.27E-02	1.65E-02	3.06E-02	2.63E-02	4.60E-02	4.50E-02	4.69E-02	4.70E-02	6.68E-03	8.94E-03	8.11E-03	2.80E-03	6.77E-04	2.24E+00
6.0E+00	9.98E-03	2.98E-02	1.75E-02	1.94E-02	2.76E-02	3.88E-02	3.96E-02	3.15E-02	3.21E-02	1.58E-02	1.60E-02	1.33E-02	2.95E-02	2.82E-02	3.49E-02	3.47E-02	3.17E-03	5.22E-03	4.13E-03	2.25E-03	2.75E-04	1.74E+00
7.0E+00	9.92E-03	2.78E-02	1.74E-02	1.92E-02	1.95E-02	3.45E-02	3.44E-02	3.07E-02	3.12E-02	1.52E-02	9.09E-03	8.15E-03	1.73E-02	1.62E-02	2.52E-02	2.49E-02	2.76E-03	2.53E-03	1.87E-03	1.47E-03	2.17E-04	1.36E+00
8.0E+00	9.85E-03	2.57E-02	1.73E-02	1.90E-02	1.37E-02	2.97E-02	2.88E-02	2.94E-02	2.98E-02	1.30E-02	6.78E-03	6.94E-03	9.69E-03	8.93E-03	1.78E-02	1.75E-02	2.68E-03	1.28E-03	1.06E-03	8.54E-04	2.13E-04	1.10E+00
1.0E+01	9.70E-03	2.10E-02	1.70E-02	1.80E-02	7.70E-03	2.00E-02	1.80E-02	2.60E-02	2.60E-02	6.80E-03	6.40E-03	6.70E-03	3.60E-03	3.40E-03	8.70E-03	8.40E-03	1.60E-03	8.50E-04	9.00E-04	2.70E-04	1.40E-04	7.70E-01
1.5E+01	9.10E-03	1.20E-02	1.50E-02	1.60E-02	6.00E-03	5.10E-03	4.10E-03	1.50E-02	1.40E-02	1.50E-03	2.70E-03	2.10E-03	2.50E-03	2.50E-03	1.40E-03	1.30E-03	2.60E-04	4.40E-04	3.50E-04	1.40E-04	2.10E-05	3.80E-01
2.0E+01	8.50E-03	5.30E-03	1.20E-02	1.20E-02	4.20E-03	1.90E-03	2.00E-03	6.60E-03	6.20E-03	1.30E-03	6.00E-04	5.10E-04	1.50E-03	1.50E-03	2.50E-04	2.30E-04	2.20E-04	9.50E-05	7.30E-05	9.30E-05	1.70E-05	2.10E-01
3.0E+01	6.80E-03	1.20E-03	6.40E-03	5.70E-03	7.10E-04	1.60E-03	1.60E-03	1.10E-03	1.00E-03	2.40E-04	3.50E-04	3.80E-04	3.00E-04	2.70E-04	1.20E-05	1.10E-05	4.30E-05	4.70E-05	5.10E-05	1.90E-05	3.40E-06	7.90E-02
4.0E+01	5.20E-03	8.90E-04	3.00E-03	2.30E-03	2.00E-04	8.80E-04	7.50E-04	2.10E-04	1.80E-04	5.10E-05	2.10E-04	1.90E-04	5.60E-05	4.70E-05	1.10E-06	9.20E-07	8.60E-06	3.00E-05	2.50E-05	3.50E-06	6.70E-07	3.70E-02
6.0E+01	2.80E-03	6.70E-04	6.30E-04	3.80E-04	1.60E-04	1.90E-04	1.20E-04	1.30E-05	9.40E-06	4.00E-05	4.70E-05	3.00E-05	3.30E-06	2.40E-06	2.20E-08	1.80E-08	6.60E-06	6.50E-06	4.10E-06	2.00E-07	5.10E-07	1.10E-02
1.0E+02	7.70E-04	1.70E-04	5.30E-05	2.00E-05	1.50E-05	6.00E-06	2.40E-07	1.40E-07	1.00E-05	3.60E-06	1.50E-06	6.00E-08	3.40E-08	1.30E-10	8.70E-11	1.70E-06	4.90E-07	2.00E-07	3.70E-09	1.30E-07	2.20E-03

E[keV]: 6.95E+01 1.21E+01 1.15E+01 1.02E+01 2.82E+00 2.57E+00 2.28E+00 1.87E+00 1.81E+00 5.92E-01 4.89E-01 4.23E-01 2.55E-01 2.43E-01 3.40E-02 3.20E-02 7.40E-02 4.40E-02 3.40E-02 0.00E+00 0.00E+00

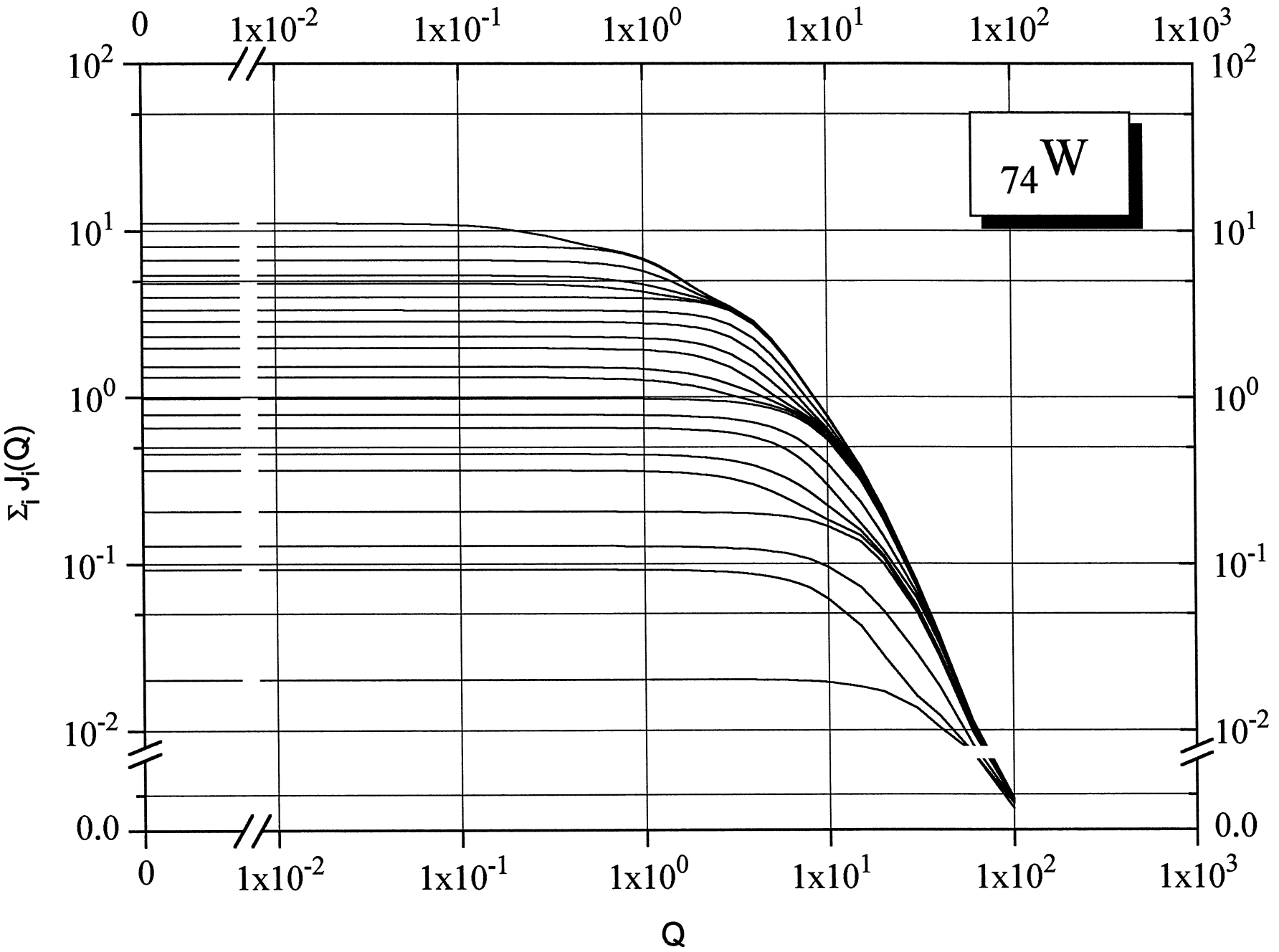
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(2)	Total
0.0E+00	2.02E-02	9.24E-02	1.28E-01	2.06E-01	3.65E-01	4.58E-01	6.58E-01	7.88E-01	9.86E-01	1.32E+00	1.53E+00	1.98E+00	2.33E+00	2.86E+00	3.35E+00	4.00E+00	4.85E+00	5.43E+00	6.68E+00	8.09E+00	1.12E+01	1.12E+01
5.0E-02	2.02E-02	9.24E-02	1.28E-01	2.06E-01	3.65E-01	4.58E-01	6.58E-01	7.88E-01	9.86E-01	1.32E+00	1.53E+00	1.98E+00	2.33E+00	2.86E+00	3.35E+00	4.00E+00	4.85E+00	5.43E+00	6.68E+00	8.08E+00	1.11E+01	1.11E+01
1.0E-01	2.02E-02	9.24E-02	1.28E-01	2.06E-01	3.65E-01	4.58E-01	6.58E-01	7.87E-01	9.86E-01	1.32E+00	1.53E+00	1.98E+00	2.33E+00	2.86E+00	3.34E+00	4.00E+00	4.84E+00	5.43E+00	6.67E+00	8.08E+00	1.09E+01	1.09E+01
1.5E-01	2.02E-02	9.24E-02	1.28E-01	2.06E-01	3.65E-01	4.58E-01	6.58E-01	7.87E-01	9.86E-01	1.32E+00	1.53E+00	1.98E+00	2.33E+00	2.86E+00	3.34E+00	4.00E+00	4.83E+00	5.41E+00	6.66E+00	8.07E+00	1.05E+01	1.05E+01
2.0E-01	2.02E-02	9.24E-02	1.28E-01	2.06E-01	3.65E-01	4.58E-01	6.58E-01	7.87E-01	9.86E-01	1.32E+00	1.53E+00	1.98E+00	2.33E+00	2.86E+00	3.34E+00	4.00E+00	4.82E+00	5.40E+00	6.65E+00	8.05E+00	1.01E+01	1.01E+01
3.0E-01	2.02E-02	9.22E-02	1.28E-01	2.06E-01	3.64E-01	4.58E-01	6.57E-01	7.87E-01	9.85E-01	1.32E+00	1.53E+00	1.98E+00	2.32E+00	2.85E+00	3.34E+00	3.99E+00	4.78E+00	5.36E+00	6.60E+00	8.01E+00	9.31E+00	9.32E+00
4.0E-01	2.02E-02	9.22E-02	1.28E-01	2.06E-01	3.64E-01	4.57E-01	6.57E-01	7.87E-01	9.85E-01	1.31E+00	1.52E+00	1.97E+00	2.32E+00	2.85E+00	3.34E+00	3.99E+00	4.73E+00	5.31E+00	6.54E+00	7.94E+00	8.65E+00	8.64E+00
5.0E-01	2.02E-02	9.22E-02	1.28E-01	2.06E-01	3.63E-01	4.57E-01	6.56E-01	7.86E-01	9.85E-01	1.31E+00	1.52E+00	1.97E+00	2.31E+00	2.84E+00	3.33E+00	3.99E+00	4.67E+00	5.24E+00	6.45E+00	7.82E+00	8.17E+00	8.17E+00
6.0E-01	2.02E-02	9.22E-02	1.28E-01	2.06E-01	3.63E-01	4.56E-01	6.56E-01	7.86E-01	9.84E-01	1.30E+00	1.51E+00	1.96E+00	2.31E+00	2.84E+00	3.33E+00	3.98E+00	4.60E+00	5.16E+00	6.34E+00	7.67E+00	7.85E+00	7.85E+00
7.0E-01	2.02E-02	9.22E-02	1.28E-01	2.06E-01	3.62E-01	4.56E-01	6.55E-01	7.85E-01	9.84E-01	1.29E+00	1.50E+00	1.95E+00	2.30E+00	2.83E+00	3.31E+00	3.97E+00	4.52E+00	5.07E+00	6.21E+00	7.47E+00	7.58E+00	7.59E+00
8.0E-01	2.02E-02	9.20E-02	1.27E-01	2.05E-01	3.61E-01	4.55E-01	6.54E-01	7.84E-01	9.83E-01	1.29E+00	1.50E+00	1.94E+00	2.29E+00	2.82E+00	3.31E+00	3.96E+00	4.45E+00	4.97E+00	6.07E+00	7.25E+00	7.34E+00	7.34E+00
1.0E+00	2.02E-02	9.20E-02	1.27E-01	2.05E-01	3.60E-01	4.53E-01	6.53E-01	7.82E-01	9.81E-01	1.27E+00	1.48E+00	1.93E+00	2.27E+00	2.80E+00	3.29E+00	3.94E+00	4.31E+00	4.78E+00	5.73E+00	6.71E+00	6.80E+00	6.80E+00
1.2E+00	2.02E-02	9.18E-02	1.27E-01	2.05E-01	3.57E-01	4.51E-01	6.50E-01	7.80E-01	9.79E-01	1.25E+00	1.46E+00	1.90E+00	2.25E+00	2.77E+00	3.26E+00	3.91E+00	4.17E+00	4.57E+00	5.36E+00	6.14E+00	6.22E+00	6.22E+00
1.4E+00	2.02E-02	9.16E-02	1.27E-01	2.05E-01	3.55E-01	4.48E-01	6.47E-01	7.77E-01	9.76E-01	1.23E+00	1.43E+00	1.87E+00	2.22E+00	2.74E+00	3.23E+00	3.88E+00	4.06E+00	4.38E+00	5.01E+00	5.60E+00	5.65E+00	5.65E+00
1.6E+00	2.02E-02	9.14E-02	1.27E-01	2.05E-01	3.52E-01	4.45E-01	6.44E-01	7.74E-01	9.72E-01	1.20E+00	1.41E+00	1.84E+00	2.18E+00	2.71E+00	3.19E+00	3.84E+00	3.96E+00	4.22E+00	4.69E+00	5.12E+00	5.15E+00	5.15E+00
1.8E+00	2.02E-02	9.10E-02	1.26E-01	2.04E-01	3.48E-01	4.41E-01	6.40E-01	7.70E-01	9.68E-01	1.18E+00	1.38E+00	1.80E+00	2.14E+00	2.66E+00	3.14E+00	3.79E+00	3.88E+00	4.07E+00	4.40E+00	4.71E+00	4.73E+00	4.74E+00
2.0E+00	2.02E-02	9.08E-02	1.26E-01	2.04E-01	3.45E-01	4.38E-01	6.37E-01	7.66E-01	9.65E-01	1.15E+00	1.35E+00	1.76E+00	2.10E+00	2.62E+00	3.09E+00	3.73E+00	3.80E+00	3.94E+00	4.17E+00	4.39E+00	4.40E+00	4.40E+00
2.4E+00	2.02E-02	9.02E-02	1.25E-01	2.03E-01	3.37E-01	4.30E-01	6.27E-01	7.57E-01	9.55E-01	1.10E+00	1.29E+00	1.66E+00	2.00E+00	2.50E+00	2.97E+00	3.59E+00	3.65E+00	3.72E+00	3.83E+00	3.93E+00	3.94E+00	3.94E+00
3.0E+00	2.02E-02	8.90E-02	1.24E-01	2.02E-01	3.23E-01	4.15E-01	6.11E-01	7.40E-01	9.38E-01	1.03E+00	1.19E+00	1.51E+00	1.82E+00	2.29E+00	2.73E+00	3.31E+00	3.37E+00	3.40E+00	3.45E+00	3.48E+00	3.49E+00	3.49E+00
4.0E+00	2.02E-02	8.64E-02	1.22E-01	2.00E-01	2.97E-01	3.87E-01	5.75E-01	7.04E-01	9.01E-01	9.49E-01	1.06E+00	1.25E+00	1.51E+00	1.89E+00	2.25E+00	2.74E+00	2.77E+00	2.79E+00	2.84E+00	2.85E+00	2.85E+00	2.86E+00
5.0E+00	2.00E-02	8.32E-02	1.18E-01	1.96E-01	2.71E-01	3.56E-01	5.31E-01	6.59E-01	8.55E-01	8.88E-01	9.50E-01	1.05E+00	1.24E+00	1.51E+00	1.79E+00	2.17E+00	2.18E+00	2.20E+00	2.23E+00	2.24E+00	2.24E+00	2.24E+00
6.0E+00	2.00E-02	7.96E-02	1.15E-01	1.92E-01	2.47E-01	3.25E-01	4.83E-01	6.09E-01	8.02E-01	8.34E-01	8.66E-01	9.19E-01	1.04E+00	1.21E+00	1.42E+00	1.69E+00	1.70E+00	1.71E+00	1.73E+00	1.74E+00	1.74E+00	1.74E+00
7.0E+00	1.98E-02	7.54E-02	1.10E-01	1.87E-01	2.26E-01	2.95E-01	4.33E-01	5.55E-01	7.43E-01	7.73E-01	7.91E-01	8.24E-01	8.93E-01	9.90E-01	1.14E+00	1.34E+00	1.35E+00	1.35E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00
8.0E+00	1.97E-02	7.11E-02	1.06E-01	1.82E-01	2.09E-01	2.69E-01	3.84E-01	5.01E-01	6.80E-01	7.06E-01	7.20E-01	7.47E-01	7.86E-01	8.40E-01	9.47E-01	1.09E+00	1.09E+00	1.09E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00
1.0E+01	1.94E-02	6.14E-02	9.54E-02	1.67E-01	1.83E-01	2.23E-01	2.95E-01	3.99E-01	5.55E-01	5.68E-01	5.81E-01	6.08E-01	6.22E-01	6.43E-01	6.95E-01	7.62E-01	7.65E-01	7.67E-01	7.71E-01	7.72E-01	7.72E-01	7.72E-01
1.5E+01	1.82E-02	4.22E-02	7.22E-02	1.36E-01	1.48E-01	1.58E-01	1.75E-01	2.35E-01	3.72E-01	3.76E-01	3.27E-01	3.36E-01	3.46E-01	3.61E-01	3.69E-01	3.79E-01	3.80E-01	3.81E-01	3.82E-01	3.83E-01	3.83E-01	3.80E-01
2.0E+01	1.70E-02	2.76E-02	5.16E-02	9.96E-02	1.08E-01	1.12E-01	1.20E-01	1.46E-01	1.83E-01	1.86E-01	1.87E-01	1.89E-01	1.95E-01	2.04E-01	2.06E-01	2.08E-01	2.08E-01	2.08E-01	2.09E-01	2.09E-01	2.09E-01	2.10E-01
3.0E+01	1.36E-02	1.60E-02	2.88E-02	5.16E-02	5.30E-02	5.62E-02	6.26E-02	6.70E-02	7.30E-02	7.35E-02	7.42E-02	7.57E-02	7.69E-02	7.85E-02	7.86E-02	7.87E-02	7.88E-02	7.89E-02	7.91E-02	7.92E-02	7.92E-02	7.90E-02
4.0E+01	1.04E-02	1.22E-02	1.82E-02	2.74E-02	2.78E-02	2.95E-02	3.25E-02	3.34E-02	3.45E-02	3.46E-02	3.50E-02	3.57E-02	3.60E-02	3.62E-02	3.63E-02	3.63E-02	3.63E-02	3.63E-02	3.64E-02	3.65E-02	3.65E-02	3.70E-02
6.0E+01	5.60E-03	6.94E-03	8.20E-03	9.72E-03	1.00E-02	1.04E-02	1.09E-02	1.10E-02	1.10E-02	1.11E-02	1.12E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.14E-02	1.14E-02	1.14E-02	1.14E-02	1.10E-02
1.0E+02	1.54E-03	1.88E-03	1.99E-03	2.07E-03	2.15E-03	2.18E-03	2.20E-03	2.20E-03	2.21E-03	2.23E-03	2.23E-03	2.24E-03	2.24E-03	2.24E-03	2.24E-03	2.24E-03	2.24E-03	2.24E-03	2.24E-03	2.24E-03	2.24E-03	2.20E-03

E[keV]: 6.95E+01 1.21E+01 1.15E+01 1.02E+01 2.82E+00 2.57E+00 2.28E+00 1.87E+00 1.81E+00 5.92E-01 4.89E-01 4.23E-01 2.55E-01 2.43E-01 3.40E-02 3.20E-02 7.40E-02 4.40E-02 3.40E-02 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																						
0.0E+00	4.51E+00	5.16E+00	6.89E+00	7.48E+00	8.33E+00	8.86E+00	9.20E+00	9.66E+00	9.87E+00	1.02E+01	1.04E+01	1.05E+01	1.07E+01	1.08E+01	1.10E+01	1.11E+01	1.11E+01	1.12E+01	1.12E+01	1.12E+01		
5.0E-02	4.43E+00	5.08E+00	6.81E+00	7.40E+00	8.25E+00	8.78E+00	9.12E+00	9.57E+00	9.78E+00	1.01E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.09E+01	1.10E+01	1.10E+01	1.11E+01	1.11E+01	1.11E+01		
1.0E-01	4.21E+00	4.86E+00	6.59E+00	7.18E+00	8.02E+00	8.55E+00	8.90E+00	9.35E+00	9.56E+00	9.89E+00	1.01E+01	1.02E+01	1.04E+01	1.05E+01	1.07E+01	1.08E+01	1.08E+01	1.09E+01	1.09E+01	1.09E+01		
1.5E-01	3.89E+00	4.54E+00	6.27E+00	6.86E+00	7.69E+00	8.22E+00	8.57E+00	9.02E+00	9.23E+00	9.56E+00	9.76E+00	9.89E+00	1.01E+01	1.02E+01	1.03E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01	1.05E+01		
2.0E-01	3.49E+00	4.14E+00	5.87E+00	6.46E+00	7.28E+00	7.81E+00	8.15E+00	8.61E+00	8.82E+00	9.15E+00	9.35E+00	9.48E+00	9.68E+00	9.77E+00	9.93E+00	1.00E+01	1.00E+01	1.01E+01	1.01E+01	1.01E+01		
3.0E-01	2.71E+00	3.37E+00	5.09E+00	5.67E+00	6.46E+00	6.99E+00	7.34E+00	7.79E+00	8.00E+00	8.33E+00	8.53E+00	8.66E+00	8.86E+00	8.95E+00	9.11E+00	9.19E+00	9.22E+00	9.29E+00	9.31E+00	9.32E+00		
4.0E-01	2.10E+00	2.76E+00	4.48E+00	5.06E+00	5.80E+00	6.33E+00	6.67E+00	7.12E+00	7.33E+00	7.66E+00	7.86E+00	7.99E+00	8.19E+00	8.28E+00	8.44E+00	8.52E+00	8.55E+00	8.63E+00	8.65E+00	8.64E+00		
5.0E-01	1.72E+00	2.37E+00	4.07E+00	4.64E+00	5.32E+00	5.85E+00	6.20E+00	6.65E+00	6.86E+00	7.18E+00	7.38E+00	7.51E+00	7.71E+00	7.80E+00	7.96E+00	8.04E+00	8.07E+00	8.15E+00	8.17E+00	8.17E+00		
6.0E-01	1.50E+00	2.15E+00	3.83E+00	4.39E+00	5.01E+00	5.54E+00	5.88E+00	6.34E+00	6.55E+00	6.86E+00	7.06E+00	7.19E+00	7.39E+00	7.48E+00	7.64E+00	7.72E+00	7.75E+00	7.83E+00	7.85E+00	7.85E+00		
7.0E-01	1.37E+00	2.03E+00	3.66E+00	4.20E+00	4.76E+00	5.29E+00	5.63E+00	6.08E+00	6.29E+00	6.60E+00	6.80E+00	6.93E+00	7.13E+00	7.22E+00	7.38E+00	7.46E+00	7.49E+00	7.56E+00	7.58E+00	7.59E+00		
8.0E-01	1.28E+00	1.93E+00	3.51E+00	4.03E+00	4.52E+00	5.05E+00	5.40E+00	5.85E+00	6.06E+00	6.36E+00	6.56E+00	6.69E+00	6.89E+00	6.98E+00	7.14E+00	7.22E+00	7.25E+00	7.32E+00	7.34E+00	7.34E+00		
1.0E+00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74W
Σi Ji(Q)
Q

Z=75

Compton profiles for the single orbitals and binding energies

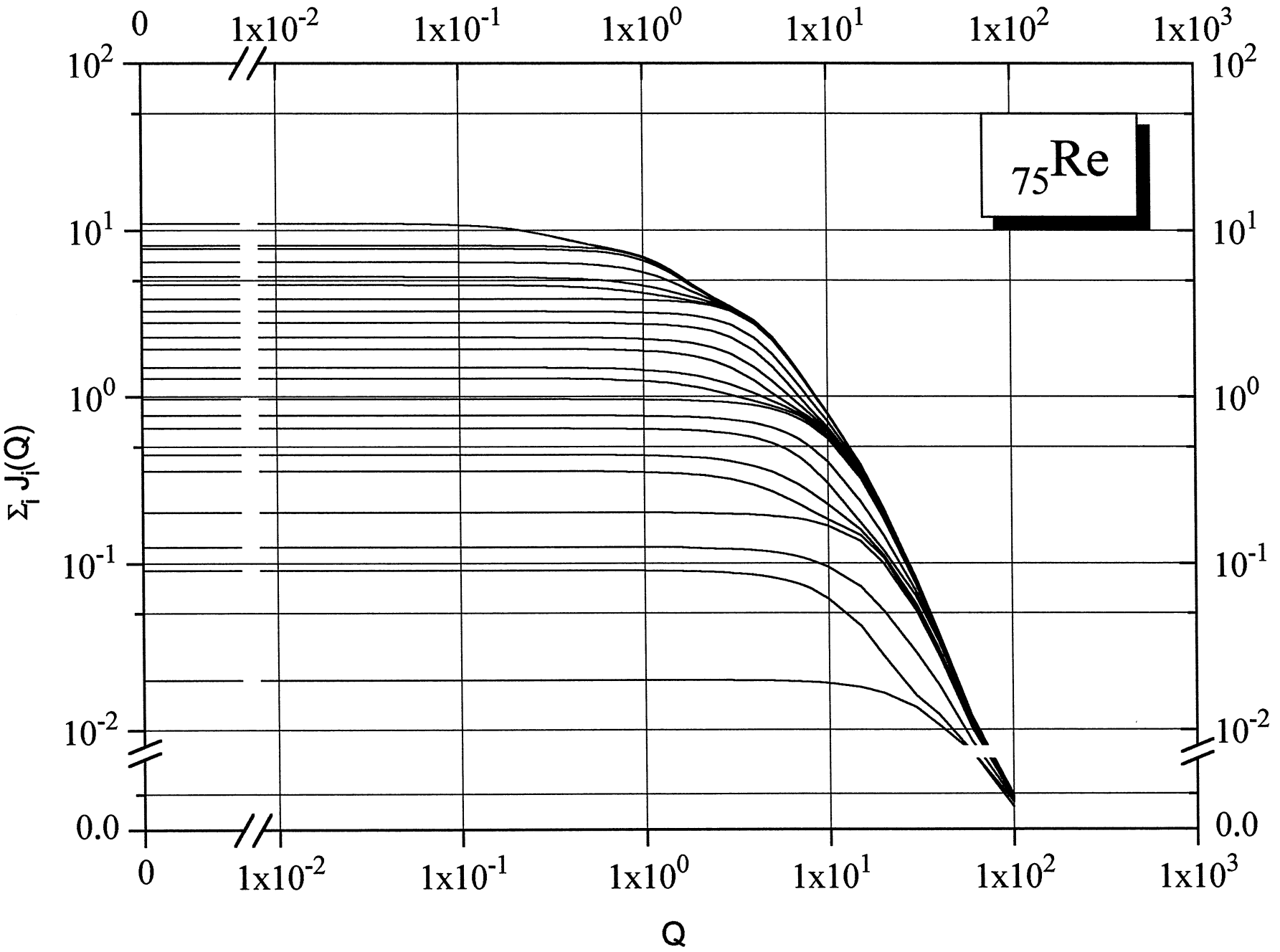
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(1)	5f-(2)	Total
0.0E+00	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.81E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.63E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	4.12E-01	2.79E-01	3.00E-01	3.27E-01	3.46E-01	1.49E+00	1.11E+01
5.0E-02	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.81E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.63E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	4.11E-01	2.79E-01	3.00E-01	3.27E-01	3.46E-01	1.46E+00	1.10E+01
1.0E-01	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.81E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.63E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	4.08E-01	2.79E-01	3.00E-01	3.27E-01	3.46E-01	1.36E+00	1.08E+01
1.5E-01	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.80E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.63E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	4.04E-01	2.79E-01	3.00E-01	3.27E-01	3.46E-01	1.21E+00	1.05E+01
2.0E-01	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.80E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.62E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	3.98E-01	2.79E-01	3.00E-01	3.27E-01	3.46E-01	1.03E+00	1.02E+01
3.0E-01	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.79E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.61E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	3.82E-01	2.79E-01	2.99E-01	3.27E-01	3.46E-01	6.66E-01	9.39E+00
4.0E-01	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.77E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.60E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	3.60E-01	2.77E-01	2.97E-01	3.25E-01	3.43E-01	3.74E-01	8.74E+00
5.0E-01	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.75E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.58E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	3.35E-01	2.74E-01	2.93E-01	3.21E-01	3.37E-01	1.91E-01	8.27E+00
6.0E-01	9.97E-03	3.54E-02	1.73E-02	1.92E-02	7.73E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.55E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	3.06E-01	2.70E-01	2.87E-01	3.13E-01	3.27E-01	9.78E-02	7.95E+00
7.0E-01	9.97E-03	3.53E-02	1.73E-02	1.92E-02	7.70E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.52E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	2.75E-01	2.63E-01	2.79E-01	3.02E-01	3.12E-01	5.93E-02	7.69E+00
8.0E-01	9.97E-03	3.53E-02	1.73E-02	1.92E-02	7.66E-02	4.58E-02	4.91E-02	3.18E-02	3.25E-02	1.49E-01	1.03E-01	1.10E-01	8.42E-02	8.62E-02	7.77E-02	7.82E-02	2.44E-01	2.55E-01	2.67E-01	2.86E-01	2.92E-01	4.76E-02	7.45E+00
1.0E+00	9.97E-03	3.53E-02	1.73E-02	1.92E-02	7.58E-02	4.58E-02	4.90E-02	3.18E-02	3.25E-02	1.42E-01	1.03E-01	1.09E-01	8.42E-02	8.62E-02	7.76E-02	7.82E-02	1.84E-01	2.31E-01	2.37E-01	2.46E-01	2.45E-01	4.55E-02	6.93E+00
1.2E+00	9.96E-03	3.52E-02	1.73E-02	1.92E-02	7.48E-02	4.58E-02	4.90E-02	3.18E-02	3.25E-02	1.33E-01	1.02E-01	1.09E-01	8.41E-02	8.61E-02	7.76E-02	7.82E-02	1.32E-01	2.00E-01	1.99E-01	2.01E-01	1.95E-01	4.09E-02	6.35E+00
1.4E+00	9.96E-03	3.51E-02	1.73E-02	1.92E-02	7.37E-02	4.58E-02	4.90E-02	3.18E-02	3.25E-02	1.24E-01	1.01E-01	1.08E-01	8.40E-02	8.60E-02	7.75E-02	7.81E-02	9.21E-02	1.66E-01	1.60E-01	1.57E-01	1.49E-01	3.12E-02	5.78E+00
1.6E+00	9.96E-03	3.50E-02	1.73E-02	1.92E-02	7.24E-02	4.58E-02	4.90E-02	3.18E-02	3.25E-02	1.14E-01	9.99E-02	1.06E-01	8.38E-02	8.58E-02	7.73E-02	7.79E-02	6.37E-02	1.32E-01	1.22E-01	1.19E-01	1.10E-01	2.11E-02	5.25E+00
1.8E+00	9.96E-03	3.48E-02	1.73E-02	1.92E-02	7.09E-02	4.57E-02	4.89E-02	3.18E-02	3.25E-02	1.04E-01	9.82E-02	1.04E-01	8.35E-02	8.54E-02	7.70E-02	7.76E-02	4.58E-02	1.01E-01	8.95E-02	8.78E-02	7.95E-02	1.32E-02	4.81E+00
2.0E+00	9.95E-03	3.47E-02	1.73E-02	1.92E-02	6.94E-02	4.57E-02	4.88E-02	3.18E-02	3.25E-02	9.39E-02	9.60E-02	1.01E-01	8.31E-02	8.49E-02	7.65E-02	7.71E-02	3.59E-02	7.51E-02	6.34E-02	6.32E-02	5.61E-02	7.92E-03	4.45E+00
2.4E+00	9.94E-03	3.44E-02	1.73E-02	1.92E-02	6.58E-02	4.55E-02	4.86E-02	3.18E-02	3.25E-02	7.43E-02	9.03E-02	9.34E-02	8.15E-02	8.31E-02	7.50E-02	7.56E-02	2.97E-02	3.84E-02	3.04E-02	3.10E-02	2.66E-02	3.37E-03	3.94E+00
3.0E+00	9.93E-03	3.38E-02	1.72E-02	1.92E-02	5.99E-02	4.51E-02	4.81E-02	3.18E-02	3.25E-02	4.95E-02	7.85E-02	7.87E-02	7.71E-02	7.82E-02	7.09E-02	7.15E-02	2.89E-02	1.55E-02	1.36E-02	1.01E-02	8.38E-03	2.53E-03	3.47E+00
4.0E+00	9.90E-03	3.26E-02	1.73E-02	1.92E-02	4.89E-02	4.39E-02	4.64E-02	3.17E-02	3.24E-02	2.47E-02	5.41E-02	5.06E-02	6.40E-02	6.40E-02	6.05E-02	6.08E-02	1.85E-02	1.10E-02	1.16E-02	3.29E-03	3.08E-03	1.91E-03	2.86E+00
5.0E+00	9.86E-03	3.11E-02	1.73E-02	1.91E-02	3.79E-02	4.17E-02	4.35E-02	3.15E-02	3.22E-02	1.65E-02	3.19E-02	2.76E-02	4.70E-02	4.61E-02	4.81E-02	4.81E-02	7.54E-03	9.49E-03	8.72E-03	3.09E-03	2.94E-03	8.00E-04	2.28E+00
6.0E+00	9.81E-03	2.94E-02	1.72E-02	1.91E-02	2.80E-02	3.85E-02	3.94E-02	3.10E-02	3.16E-02	1.55E-02	1.71E-02	1.41E-02	3.08E-02	2.96E-02	3.64E-02	3.62E-02	3.41E-03	5.84E-03	4.64E-03	2.59E-03	2.38E-03	3.14E-04	1.77E+00
7.0E+00	9.75E-03	2.76E-02	1.71E-02	1.89E-02	2.01E-02	3.44E-02	3.44E-02	3.02E-02	3.08E-02	1.51E-02	9.56E-03	8.41E-03	1.85E-02	1.74E-02	2.67E-02	2.64E-02	2.80E-03	2.91E-03	2.13E-03	1.76E-03	1.56E-03	2.28E-04	1.40E+00
8.0E+00	9.68E-03	2.55E-02	1.70E-02	1.88E-02	1.42E-02	2.99E-02	2.90E-02	2.91E-02	2.95E-02	1.32E-02	6.86E-03	6.93E-03	1.05E-02	9.69E-03	1.91E-02	1.88E-02	2.75E-03	1.46E-03	1.16E-03	1.05E-03	9.05E-04	2.24E-04	1.13E+00
1.0E+01	9.50E-03	2.10E-02	1.70E-02	1.80E-02	7.90E-03	2.10E-02	1.90E-02	2.60E-02	2.60E-02	7.30E-03	6.30E-03	6.70E-03	3.80E-03	3.60E-03	9.50E-03	9.20E-03	1.80E-03	8.80E-04	9.30E-04	3.30E-04	2.90E-04	1.50E-04	7.90E-01
1.5E+01	9.00E-03	1.20E-02	1.50E-02	1.60E-02	5.90E-03	5.40E-03	4.30E-03	1.50E-02	1.50E-02	1.50E-03	2.90E-03	2.30E-03	2.50E-03	2.50E-03	1.60E-03	1.50E-03	2.80E-04	4.90E-04	3.90E-04	1.60E-04	1.50E-04	2.20E-05	3.90E-01
2.0E+01	8.30E-03	5.50E-03	1.20E-02	1.20E-02	4.30E-03	1.90E-03	2.00E-03	6.90E-03	6.50E-03	1.30E-03	6.60E-04	5.30E-04	1.60E-03	1.50E-03	2.90E-04	2.70E-04	2.30E-04	1.10E-04	8.10E-05	1.10E-04	9.90E-05	1.90E-05	2.10E-01
3.0E+01	6.80E-03	1.20E-03	6.60E-03	5.80E-03	7.80E-04	1.60E-03	1.60E-03	1.20E-03	1.10E-03	2.70E-04	3.50E-04	3.80E-04	3.30E-04	2.90E-04	1.50E-05	1.30E-05	4.90E-05	4.90E-05	5.30E-05	2.30E-05	1.90E-05	4.00E-06	8.20E-02
4.0E+01	5.30E-03	8.70E-04	3.10E-03	2.40E-03	2.00E-04	9.10E-04	7.90E-04	2.30E-04	1.90E-04	5.30E-05	2.20E-04	2.00E-04	6.30E-05	5.20E-05	1.30E-06	1.10E-06	9.20E-06	3.20E-05	2.80E-05	4.40E-06	3.40E-06	7.40E-07	3.80E-02
6.0E+01	2.90E-03	6.80E-04	6.80E-04	4.10E-04	1.60E-04	2.00E-04	1.30E-04	1.40E-05	1.10E-05	4.00E-05	5.10E-05	3.30E-05	3.70E-06	2.80E-06	2.70E-08	2.20E-08	6.90E-06	7.40E-06	4.70E-06	2.60E-07	1.80E-07	5.50E-07	1.20E-02
1.0E+02	8.00E-04	1.80E-04	5.80E-05	2.20E-05	4.40E-05	1.60E-05	6.60E-06	2.70E-07	1.60E-07	1.10E-05	4.00E-06	1.60E-06	6.90E-08	3.90E-08	1.70E-10	1.10E-10	1.90E-06	5.70E-07	2.30E-07	4.80E-09	2.60E-09	1.50E-07	2.40E-03
E[keV]:	7.17E+01	1.25E+01	1.20E+01	1.05E+01	2.93E+00	2.68E+00	2.37E+00	1.95E+00	1.88E+00	6.25E-01	5.18E-01	4.45E-01	2.74E-01	2.60E-01	4.30E-02	4.00E-02	8.30E-02	4.60E-02	3.50E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(1)	5f-(2)	Total
0.0E+00	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.58E-01	4.50E-01	6.46E-01	7.74E-01	9.69E-01	1.29E+00	1.50E+00	1.94E+00	2.28E+00	2.79E+00	3.26E+00	3.89E+00	4.71E+00	5.27E+00	6.47E+00	7.76E+00	8.12E+00	1.11E+01	1.11E+01
5.0E-02	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.58E-01	4.50E-01	6.46E-01	7.74E-01	9.69E-01	1.29E+00	1.50E+00	1.94E+00	2.28E+00	2.79E+00	3.26E+00	3.89E+00	4.71E+00	5.27E+00	6.47E+00	7.77E+00	8.12E+00	1.10E+01	1.10E+01
1.0E-01	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.58E-01	4.50E-01	6.46E-01	7.74E-01	9.69E-01	1.29E+00	1.50E+00	1.94E+00	2.28E+00	2.79E+00	3.26E+00	3.89E+00	4.70E+00	5.26E+00	6.46E+00	7.77E+00	8.11E+00	1.08E+01	1.08E+01
1.5E-01	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.58E-01	4.50E-01	6.46E-01	7.73E-01	9.68E-01	1.29E+00	1.50E+00	1.94E+00	2.28E+00	2.79E+00	3.26E+00	3.89E+00	4.69E+00	5.25E+00	6.45E+00	7.76E+00	8.11E+00	1.05E+01	1.05E+01
2.0E-01	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.58E-01	4.50E-01	6.46E-01	7.73E-01	9.68E-01	1.29E+00	1.50E+00	1.94E+00	2.28E+00	2.79E+00	3.26E+00	3.88E+00	4.68E+00	5.24E+00	6.44E+00	7.75E+00	8.09E+00	1.02E+01	1.02E+01
3.0E-01	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.58E-01	4.50E-01	6.46E-01	7.73E-01	9.68E-01	1.29E+00	1.50E+00	1.94E+00	2.27E+00	2.79E+00	3.26E+00	3.88E+00	4.65E+00	5.20E+00	6.40E+00	7.71E+00	8.05E+00	9.39E+00	9.39E+00
4.0E-01	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.58E-01	4.49E-01	6.46E-01	7.73E-01	9.68E-01	1.29E+00	1.49E+00	1.93E+00	2.27E+00	2.79E+00	3.25E+00	3.88E+00	4.60E+00	5.15E+00	6.34E+00	7.64E+00	7.98E+00	8.73E+00	8.74E+00
5.0E-01	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.57E-01	4.49E-01	6.45E-01	7.72E-01	9.67E-01	1.28E+00	1.49E+00	1.93E+00	2.27E+00	2.78E+00	3.25E+00	3.88E+00	4.55E+00	5.09E+00	6.27E+00	7.55E+00	7.89E+00	8.27E+00	8.27E+00
6.0E-01	1.99E-02	9.07E-02	1.25E-01	2.02E-01	3.57E-01	4.48E-01	6.45E-01	7.72E-01	9.67E-01	1.28E+00	1.48E+00	1.92E+00	2.26E+00	2.78E+00	3.24E+00	3.87E+00	4.48E+00	5.02E+00	6.17E+00	7.42E+00	7.75E+00	7.94E+00	7.95E+00
7.0E-01	1.99E-02	9.05E-02	1.25E-01	2.02E-01	3.56E-01	4.48E-01	6.44E-01	7.71E-01	9.66E-01	1.27E+00	1.48E+00	1.92E+00	2.25E+00	2.77E+00	3.24E+00	3.86E+00	4.41E+00	4.94E+00	6.05E+00	7.26E+00	7.57E+00	7.69E+00	7.69E+00
8.0E-01	1.99E-02	9.05E-02	1.25E-01	2.02E-01	3.55E-01	4.47E-01	6.43E-01	7.70E-01	9.65E-01	1.26E+00	1.47E+00	1.91E+00	2.25E+00	2.76E+00	3.23E+00	3.86E+00	4.34E+00	4.85E+00	5.92E+00	7.07E+00	7.36E+00	7.45E+00	7.45E+00
1.0E+00	1.99E-02	9.05E-02	1.25E-01	2.02E-01	3.54E-01	4.45E-01	6.41E-01	7.68E-01	9.63E-01	1.25E+00	1.45E+00	1.89E+00	2.23E+00	2.74E+00	3.21E+00	3.83E+00	4.20E+00	4.66E+00	5.61E+00	6.60E+00	6.84E+00	6.93E+00	6.93E+00
1.2E+00	1.99E-02	9.03E-02	1.25E-01	2.02E-01	3.51E-01	4.43E-01	6.39E-01	7.66E-01	9.61E-01	1.23E+00	1.43E+00	1.87E+00	2.20E+00	2.72E+00	3.19E+00	3.81E+00	4.08E+00	4.48E+00	5.27E+00	6.08E+00	6.27E+00	6.35E+00	6.35E+00
1.4E+00	1.99E-02	9.01E-02	1.25E-01	2.02E-01	3.49E-01	4.41E-01	6.37E-01	7.64E-01	9.59E-01	1.21E+00	1.41E+00	1.84E+00	2.18E+00	2.69E+00	3.16E+00	3.78E+00	3.97E+00	4.30E+00	4.94E+00	5.57E+00	5.72E+00	5.78E+00	5.78E+00
1.6E+00	1.99E-02	8.99E-02	1.25E-01	2.01E-01	3.46E-01	4.38E-01	6.34E-01	7.61E-01	9.56E-01	1.18E+00	1.38E+00	1.81E+00	2.14E+00	2.66E+00	3.12E+00	3.74E+00	3.87E+00	4.14E+00	4.62E+00	5.10E+00	5.21E+00	5.25E+00	5.25E+00
1.8E+00	1.99E-02	8.95E-02	1.24E-01	2.01E-01	3.43E-01	4.34E-01	6.30E-01	7.57E-01	9.52E-01	1.16E+00	1.36E+00	1.77E+00	2.11E+00	2.62E+00	3.08E+00	3.70E+00	3.79E+00	4.00E+00	4.35E+00	4.70E+00	4.78E+00	4.81E+00	4.81E+00
2.0E+00	1.99E-02	8.93E-02	1.24E-01	2.01E-01	3.40E-01	4.31E-01	6.26E-01	7.53E-01	9.48E-01	1.14E+00	1.33E+00	1.73E+00	2.06E+00	2.57E+00	3.03E+00	3.65E+00	3.72E+00	3.87E+00	4.13E+00	4.38E+00	4.43E+00	4.45E+00	4.45E+00
2.4E+00	1.99E-02	8.87E-02	1.23E-01	2.00E-01	3.32E-01	4.23E-01	6.17E-01	7.44E-01	9.39E-01	1.09E+00	1.27E+00	1.64E+00	1.97E+00	2.47E+00	2.92E+00	3.52E+00	3.58E+00	3.66E+00	3.78E+00	3.90E+00	3.93E+00	3.94E+00	3.94E+00
3.0E+00	1.99E-02	8.75E-02	1.22E-01	1.99E-01	3.19E-01	4.09E-01	6.01E-01	7.28E-01	9.23E-01	1.02E+00	1.18E+00	1.49E+00	1.80E+00	2.27E+00	2.70E+00	3.27E+00	3.33E+00	3.36E+00	3.41E+00	3.45E+00	3.46E+00	3.47E+00	3.47E+00
4.0E+00	1.98E-02	8.50E-02	1.20E-01	1.96E-01	2.94E-01	3.82E-01	5.68E-01	6.94E-01	8.89E-01	9.36E-01	1.05E+00	1.25E+00	1.50E+00	1.89E+00	2.25E+00	2.74E+00	2.78E+00	2.80E+00	2.84E+00	2.86E+00	2.86E+00	2.86E+00	2.86E+00
5.0E+00	1.97E-02	8.19E-02	1.17E-01	1.93E-01	2.69E-01	3.52E-01	5.26E-01	6.52E-01	8.45E-01	8.78E-01	9.42E-01	1.05E+00	1.24E+00	1.52E+00	1.81E+00	2.19E+00	2.21E+00	2.22E+00	2.26E+00	2.27E+00	2.27E+00	2.28E+00	2.28E+00
6.0E+00	1.96E-02	7.84E-02	1.13E-01	1.89E-01	2.45E-01	3.22E-01	4.80E-01	6.04E-01	7.93E-01	8.24E-01	8.59E-01	9.15E-01	1.04E+00	1.22E+00	1.43E+00	1.72E+00	1.73E+00	1.74E+00	1.76E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00
7.0E+00	1.95E-02	7.47E-02	1.09E-01	1.85E-01	2.25E-01	2.94E-01	4.31E-01	5.52E-01	7.37E-01	7.67E-01	7.86E-01	8.20E-01	8.94E-01	9.98E-01	1.16E+00	1.37E+00	1.38E+00	1.38E+00	1.39E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
8.0E+00	1.94E-02	7.04E-02	1.04E-01	1.80E-01	2.08E-01	2.68E-01	3.84E-01	5.00E-01	6.77E-01	7.04E-01	7.17E-01	7.45E-01	7.87E-01	8.45E-01	9.60E-01	1.11E+00	1.12E+00	1.12E+00	1.12E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
1.0E+01	1.90E-02	6.10E-02	9.50E-02	1.67E-01	1.83E-01	2.25E-01	3.01E-01	4.05E-01	5.61E-01	5.75E-01	5.88E-01	6.15E-01	6.30E-01	6.52E-01	7.09E-01	7.82E-01	7.86E-01	7.91E-01	7.93E-01	7.93E-01	7.93E-01	7.93E-01	7.90E-01
1.5E+01	1.80E-02	4.20E-02	7.20E-02	1.36E-01	1.48E-01	1.59E-01	1.76E-01	2.36E-01	3.26E-01	3.29E-01	3.35E-01	3.44E-01	3.54E-01	3.69E-01	3.78E-01	3.90E-01	3.91E-01	3.92E-01	3.94E-01	3.94E-01	3.94E-01	3.94E-01	3.90E-01
2.0E+01	1.66E-02	2.76E-02	5.16E-02	9.96E-02	1.08E-01	1.12E-01	1.20E-01	1.48E-01	1.87E-01	1.89E-01	1.91E-01	1.93E-01	1.99E-01	2.08E-01	2.10E-01	2.12E-01	2.12E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.14E-01	2.10E-01
3.0E+01	1.36E-02	1.60E-02	2.92E-02	5.24E-02	5.40E-02	5.72E-02	6.36E-02	6.84E-02	7.50E-02	7.55E-02	7.62E-02	7.77E-02	7.90E-02	8.08E-02	8.09E-02	8.10E-02	8.11E-02	8.12E-02	8.14E-02	8.15E-02	8.15E-02	8.15E-02	8.20E-02
4.0E+01	1.06E-02	1.23E-02	1.85E-02	2.81E-02	2.85E-02	3.04E-02	3.35E-02	3.44E-02	3.56E-02	3.57E-02	3.61E-02	3.69E-02	3.72E-02	3.75E-02	3.75E-02	3.75E-02	3.75E-02	3.76E-02	3.76E-02	3.77E-02	3.77E-02	3.77E-02	3.80E-02
6.0E+01	5.80E-03	7.16E-03	8.52E-03	1.02E-02	1.05E-02	1.09E-02	1.14E-02	1.15E-02	1.15E-02	1.16E-02	1.17E-02	1.18E-02	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.19E-02	1.20E-02
1.0E+02	1.60E-03	1.96E-03	2.08E-03	2.16E-03	2.25E-03	2.28E-03	2.31E-03	2.31E-03	2.31E-03	2.33E-03	2.34E-03	2.35E-03	2.35E-03	2.35E-03	2.35E-03	2.35E-03	2.35E-03	2.35E-03	2.36E-03	2.36E-03	2.36E-03	2.36E-03	2.40E-03
E[keV]:	7.17E+01	1.25E+01	1.20E+01	1.05E+01	2.93E+00	2.68E+00	2.37E+00	1.95E+00	1.88E+00	6.25E-01	5.18E-01	4.45E-01	2.74E-01	2.60E-01	4.30E-02	4.00E-02	8.30E-02	4.60E-02	3.50E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																							
0.0E+00	4.63E+00	5.83E+00	6.46E+00	6.93E+00	7.48E+00	8.31E+00	8.82E+00	9.16E+00	9.60E+00	9.81E+00	1.01E+01	1.03E+01	1.05E+01	1.07E+01	1.07E+01	1.09E+01	1.10E+01	1.10E+01	1.11E+01	1.11E+01	1.11E+01		
5.0E-02	4.57E+00	5.77E+00	6.40E+00	6.87E+00	7.42E+00	8.25E+00	8.76E+00	9.10E+00	9.54E+00	9.75E+00	1.01E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.08E+01	1.09E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01		
1.0E-01	4.37E+00	5.57E+00	6.20E+00	6.67E+00	7.22E+00	8.04E+00	8.56E+00	8.89E+00	9.33E+00	9.54E+00	9.87E+00	1.01E+01	1.02E+01	1.04E+01	1.05E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.08E+01	1.08E+01		
1.5E-01	4.07E+00	5.27E+00	5.90E+00	6.37E+00	6.92E+00	7.73E+00	8.25E+00	8.59E+00	9.03E+00	9.23E+00	9.56E+00	9.75E+00	9.88E+00	1.01E+01	1.02E+01	1.03E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01		
2.0E-01	3.71E+00	4.91E+00	5.54E+00	6.01E+00	6.56E+00	7.36E+00	7.88E+00	8.21E+00	8.65E+00	8.86E+00	9.18E+00	9.38E+00	9.51E+00	9.70E+00	9.79E+00	9.95E+00	1.00E+01	1.01E+01	1.01E+01	1.02E+01	1.02E+01		
3.0E-01	2.99E+00	4.18E+00	4.81E+00	5.27E+00	5.83E+00	6.60E+00	7.11E+00	7.45E+00	7.89E+00	8.10E+00	8.42E+00	8.61E+00	8.74E+00	8.94E+00	9.03E+00	9.18E+00	9.26E+00	9.30E+00	9.37E+00	9.39E+00	9.39E+00		
4.0E-01	2.39E+00	3.58E+00	4.20E+00	4.67E+00	5.22E+00	5.94E+00	6.46E+00	6.80E+00	7.24E+00	7.44E+00	7.76E+00	7.96E+00	8.09E+00	8.28E+00	8.38E+00	8.53E+00	8.61E+00	8.64E+00	8.71E+00	8.73E+00	8.74E+00		
5.0E-01	2.00E+00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Z=76

Compton profiles for the single orbitals and binding energies

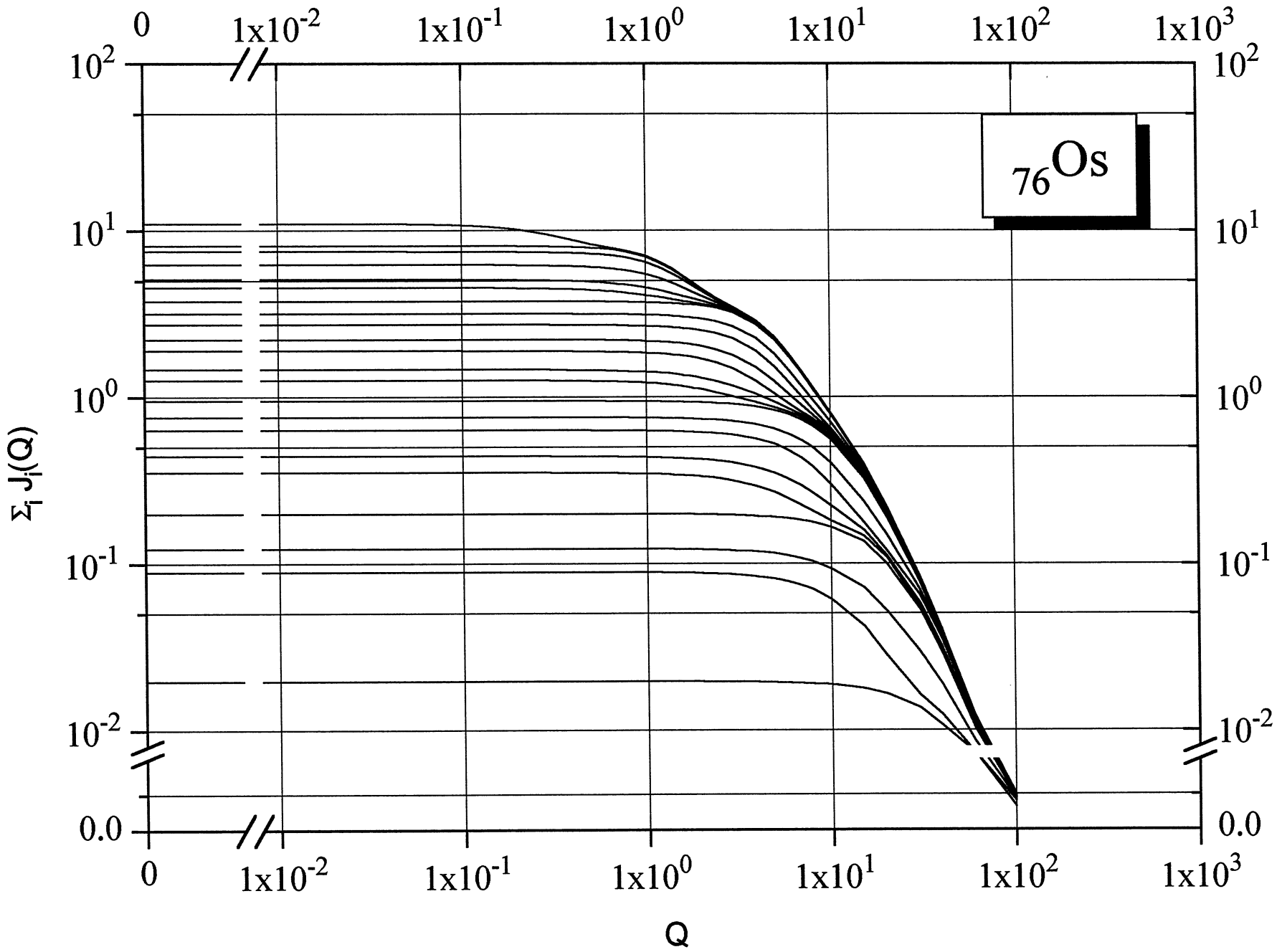
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(2)	5f-(2)	Total
0.0E+00	9.80E-03	3.48E-02	1.70E-02	1.89E-02	7.67E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.60E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.97E-01	2.68E-01	2.90E-01	3.07E-01	3.24E-01	1.44E+00	1.10E+01
5.0E-02	9.80E-03	3.48E-02	1.70E-02	1.89E-02	7.67E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.60E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.97E-01	2.68E-01	2.90E-01	3.07E-01	3.24E-01	1.41E+00	1.10E+01
1.0E-01	9.80E-03	3.48E-02	1.70E-02	1.89E-02	7.67E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.60E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.94E-01	2.68E-01	2.90E-01	3.07E-01	3.24E-01	1.32E+00	1.08E+01
1.5E-01	9.80E-03	3.48E-02	1.70E-02	1.89E-02	7.66E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.59E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.90E-01	2.68E-01	2.90E-01	3.07E-01	3.24E-01	1.19E+00	1.05E+01
2.0E-01	9.80E-03	3.48E-02	1.70E-02	1.89E-02	7.66E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.59E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.85E-01	2.68E-01	2.90E-01	3.07E-01	3.24E-01	1.02E+00	1.02E+01
3.0E-01	9.79E-03	3.48E-02	1.70E-02	1.89E-02	7.65E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.58E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.70E-01	2.68E-01	2.89E-01	3.07E-01	3.24E-01	6.76E-01	9.44E+00
4.0E-01	9.79E-03	3.49E-02	1.70E-02	1.89E-02	7.63E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.56E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.51E-01	2.67E-01	2.87E-01	3.06E-01	3.22E-01	3.92E-01	8.82E+00
5.0E-01	9.79E-03	3.48E-02	1.70E-02	1.89E-02	7.61E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.54E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.27E-01	2.64E-01	2.84E-01	3.03E-01	3.18E-01	2.07E-01	8.36E+00
6.0E-01	9.79E-03	3.48E-02	1.70E-02	1.89E-02	7.59E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.52E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	3.01E-01	2.61E-01	2.79E-01	2.98E-01	3.11E-01	1.07E-01	8.03E+00
7.0E-01	9.79E-03	3.47E-02	1.70E-02	1.89E-02	7.56E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.50E-01	1.01E-01	1.08E-01	8.22E-02	8.42E-02	7.44E-02	7.51E-02	2.72E-01	2.55E-01	2.71E-01	2.89E-01	2.99E-01	6.29E-02	7.78E+00
8.0E-01	9.79E-03	3.47E-02	1.70E-02	1.89E-02	7.53E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.47E-01	1.01E-01	1.08E-01	8.22E-02	8.41E-02	7.44E-02	7.51E-02	2.43E-01	2.47E-01	2.61E-01	2.77E-01	2.84E-01	4.77E-02	7.55E+00
1.0E+00	9.79E-03	3.46E-02	1.70E-02	1.89E-02	7.49E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.40E-01	1.00E-01	1.07E-01	8.22E-02	8.41E-02	7.44E-02	7.51E-02	1.86E-01	2.27E-01	2.34E-01	2.44E-01	2.45E-01	4.43E-02	7.05E+00
1.2E+00	9.79E-03	3.46E-02	1.70E-02	1.89E-02	7.36E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.32E-01	9.98E-02	1.07E-01	8.21E-02	8.41E-02	7.44E-02	7.51E-02	1.36E-01	1.99E-01	2.00E-01	2.05E-01	2.01E-01	4.12E-02	6.49E+00
1.4E+00	9.79E-03	3.45E-02	1.70E-02	1.89E-02	7.25E-02	4.50E-02	4.82E-02	3.12E-02	3.20E-02	1.23E-01	9.90E-02	1.05E-01	8.21E-02	8.40E-02	7.43E-02	7.50E-02	9.64E-02	1.68E-01	1.63E-01	1.65E-01	1.58E-01	3.28E-02	5.91E+00
1.6E+00	9.78E-03	3.44E-02	1.70E-02	1.89E-02	7.13E-02	4.49E-02	4.82E-02	3.12E-02	3.20E-02	1.13E-01	9.79E-02	1.04E-01	8.19E-02	8.38E-02	7.42E-02	7.49E-02	6.75E-02	1.37E-01	1.27E-01	1.28E-01	1.20E-01	2.31E-02	5.37E+00
1.8E+00	9.78E-03	3.43E-02	1.70E-02	1.89E-02	6.99E-02	4.49E-02	4.81E-02	3.12E-02	3.20E-02	1.04E-01	9.64E-02	1.02E-01	8.16E-02	8.35E-02	7.40E-02	7.47E-02	4.85E-02	1.07E-01	9.48E-02	9.73E-02	8.94E-02	1.49E-02	4.90E+00
2.0E+00	9.78E-03	3.41E-02	1.70E-02	1.89E-02	6.84E-02	4.49E-02	4.81E-02	3.12E-02	3.20E-02	9.39E-02	9.44E-02	9.93E-02	8.12E-02	8.30E-02	7.37E-02	7.43E-02	3.74E-02	8.07E-02	6.85E-02	7.19E-02	6.47E-02	9.21E-03	4.51E+00
2.4E+00	9.77E-03	3.38E-02	1.70E-02	1.89E-02	6.50E-02	4.47E-02	4.79E-02	3.12E-02	3.20E-02	7.50E-02	8.92E-02	9.24E-02	7.99E-02	8.15E-02	7.25E-02	7.32E-02	2.97E-02	4.28E-02	3.38E-02	3.70E-02	3.22E-02	3.80E-03	3.95E+00
3.0E+00	9.76E-03	3.33E-02	1.70E-02	1.89E-02	5.93E-02	4.44E-02	4.74E-02	3.12E-02	3.19E-02	5.06E-02	7.82E-02	7.86E-02	7.60E-02	7.71E-02	6.93E-02	6.99E-02	2.89E-02	1.71E-02	1.45E-02	1.26E-02	1.06E-02	2.55E-03	3.45E+00
4.0E+00	9.73E-03	3.21E-02	1.70E-02	1.89E-02	4.88E-02	4.32E-02	4.58E-02	3.12E-02	3.19E-02	2.55E-02	5.50E-02	5.17E-02	6.40E-02	6.41E-02	6.03E-02	6.06E-02	1.97E-02	1.11E-02	1.17E-02	3.68E-03	3.41E-03	2.06E-03	2.87E+00
5.0E+00	9.69E-03	3.07E-02	1.70E-02	1.89E-02	3.81E-02	4.11E-02	4.30E-02	3.10E-02	3.16E-02	1.66E-02	3.32E-02	2.88E-02	4.79E-02	4.71E-02	4.90E-02	4.90E-02	8.46E-03	9.97E-03	9.28E-03	3.32E-03	3.19E-03	9.29E-04	2.30E+00
6.0E+00	9.64E-03	2.91E-02	1.69E-02	1.88E-02	2.85E-02	3.81E-02	3.92E-02	3.05E-02	3.12E-02	1.53E-02	1.81E-02	1.49E-02	3.21E-02	3.09E-02	3.77E-02	3.75E-02	3.70E-03	6.45E-03	5.18E-03	2.90E-03	2.69E-03	3.59E-04	1.81E+00
7.0E+00	9.58E-03	2.73E-02	1.68E-02	1.87E-02	2.06E-02	3.43E-02	3.44E-02	2.98E-02	3.04E-02	1.50E-02	1.01E-02	8.72E-03	1.97E-02	1.85E-02	2.81E-02	2.77E-02	2.85E-03	3.34E-03	2.42E-03	2.05E-03	1.84E-03	2.38E-04	1.43E+00
8.0E+00	9.52E-03	2.54E-02	1.67E-02	1.85E-02	1.46E-02	3.00E-02	2.93E-02	2.88E-02	2.92E-02	1.34E-02	6.99E-03	6.93E-03	1.14E-02	1.05E-02	2.04E-02	2.00E-02	2.81E-03	1.66E-03	1.27E-03	1.26E-03	1.09E-03	2.33E-04	1.16E+00
1.0E+01	9.40E-03	2.10E-02	1.60E-02	1.80E-02	8.00E-03	2.10E-02	1.90E-02	2.60E-02	2.60E-02	7.70E-03	6.20E-03	6.60E-03	4.00E-03	3.80E-03	1.00E-02	1.00E-02	1.90E-03	9.00E-04	9.50E-04	4.10E-04	3.50E-04	1.70E-04	8.10E-01
1.5E+01	8.90E-03	1.20E-02	1.50E-02	1.60E-02	5.80E-03	5.80E-03	4.60E-03	1.50E-02	1.50E-02	1.50E-03	3.10E-03	2.50E-03	2.50E-03	2.50E-03	1.80E-03	1.70E-03	2.90E-04	5.50E-04	4.30E-04	1.70E-04	1.70E-04	2.40E-05	4.00E-01
2.0E+01	8.20E-03	5.70E-03	1.20E-02	1.20E-02	4.40E-03	1.90E-03	2.00E-03	7.20E-03	6.80E-03	1.30E-03	7.20E-04	5.60E-04	1.70E-03	1.60E-03	3.40E-04	3.10E-04	2.40E-04	1.30E-04	9.00E-05	1.20E-04	1.10E-04	2.00E-05	2.20E-01
3.0E+01	6.80E-03	1.30E-03	6.70E-03	5.90E-03	8.50E-04	1.60E-03	1.70E-03	1.30E-03	1.20E-03	2.90E-04	3.50E-04	3.90E-04	3.50E-04	3.20E-04	1.80E-05	1.60E-05	5.60E-05	5.10E-05	5.60E-05	2.70E-05	2.30E-05	4.70E-06	8.40E-02
4.0E+01	5.30E-03	8.60E-04	3.20E-03	2.50E-03	2.10E-04	9.40E-04	8.20E-04	2.50E-04	2.10E-04	5.50E-05	2.30E-04	2.10E-04	7.00E-05	5.80E-05	1.50E-06	1.30E-06	9.90E-06	3.50E-05	3.00E-05	5.40E-06	4.20E-06	8.10E-07	3.90E-02
6.0E+01	2.90E-03	6.90E-04	7.20E-04	4.30E-04	1.60E-04	2.20E-04	1.40E-04	1.60E-05	1.20E-05	4.10E-05	5.50E-05	3.60E-05	4.20E-06	3.10E-06	3.40E-08	2.70E-08	7.10E-06	8.30E-06	5.20E-06	3.30E-07	2.30E-07	5.80E-07	1.20E-02
1.0E+02	8.30E-04	1.90E-04	6.30E-05	2.40E-05	4.70E-05	1.80E-05	7.20E-06	3.10E-07	1.80E-07	1.20E-05	4.40E-06	1.80E-06	8.00E-08	4.50E-08	2.10E-10	1.40E-10	2.10E-06	6.60E-07	2.60E-07	6.10E-09	3.30E-09	1.70E-07	2.50E-03
E[keV]:	7.39E+01	1.30E+01	1.24E+01	1.09E+01	3.05E+00	2.79E+00	2.46E+00	2.03E+00	1.96E+00	6.55E-01	5.47E-01	4.69E-01	2.90E-01	2.73E-01	5.40E-02	5.10E-02	8.40E-02	5.80E-02	4.60E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(2)	5f-(2)	Total
0.0E+00	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.52E-01	4.42E-01	6.35E-01	7.60E-01	9.52E-01	1.27E+00	1.47E+00	1.91E+00	2.23E+00	2.74E+00	3.19E+00	3.79E+00	4.58E+00	5.12E+00	6.28E+00	7.51E+00	8.15E+00	1.10E+01	1.10E+01
5.0E-02	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.52E-01	4.42E-01	6.35E-01	7.60E-01	9.52E-01	1.27E+00	1.47E+00	1.91E+00	2.23E+00	2.74E+00	3.19E+00	3.79E+00	4.58E+00	5.12E+00	6.28E+00	7.51E+00	8.15E+00	1.10E+01	1.10E+01
1.0E-01	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.52E-01	4.42E-01	6.35E-01	7.60E-01	9.52E-01	1.27E+00	1.47E+00	1.91E+00	2.23E+00	2.74E+00	3.19E+00	3.79E+00	4.57E+00	5.11E+00	6.27E+00	7.50E+00	8.15E+00	1.08E+01	1.08E+01
1.5E-01	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.52E-01	4.42E-01	6.35E-01	7.60E-01	9.52E-01	1.27E+00	1.47E+00	1.90E+00	2.23E+00	2.74E+00	3.18E+00	3.78E+00	4.56E+00	5.10E+00	6.26E+00	7.49E+00	8.14E+00	1.05E+01	1.05E+01
2.0E-01	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.52E-01	4.42E-01	6.35E-01	7.60E-01	9.52E-01	1.27E+00	1.47E+00	1.90E+00	2.23E+00	2.74E+00	3.18E+00	3.78E+00	4.55E+00	5.09E+00	6.25E+00	7.48E+00	8.13E+00	1.02E+01	1.02E+01
3.0E-01	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.52E-01	4.42E-01	6.35E-01	7.59E-01	9.51E-01	1.27E+00	1.47E+00	1.90E+00	2.23E+00	2.74E+00	3.18E+00	3.78E+00	4.52E+00	5.06E+00	6.21E+00	7.44E+00	8.09E+00	9.44E+00	9.44E+00
4.0E-01	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.51E-01	4.41E-01	6.34E-01	7.59E-01	9.51E-01	1.26E+00	1.46E+00	1.90E+00	2.23E+00	2.73E+00	3.18E+00	3.78E+00	4.48E+00	5.01E+00	6.16E+00	7.39E+00	8.03E+00	8.81E+00	8.82E+00
5.0E-01	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.51E-01	4.41E-01	6.34E-01	7.59E-01	9.51E-01	1.26E+00	1.46E+00	1.89E+00	2.22E+00	2.73E+00	3.17E+00	3.77E+00	4.43E+00	4.96E+00	6.09E+00	7.30E+00	7.94E+00	8.35E+00	8.36E+00
6.0E-01	1.96E-02	8.92E-02	1.23E-01	1.99E-01	3.51E-01	4.41E-01	6.33E-01	7.58E-01	9.50E-01	1.25E+00	1.46E+00	1.89E+00	2.22E+00	2.72E+00	3.17E+00	3.77E+00	4.37E+00	4.89E+00	6.01E+00	7.20E+00	7.82E+00	8.04E+00	8.03E+00
7.0E-01	1.96E-02	8.90E-02	1.23E-01	1.99E-01	3.50E-01	4.40E-01	6.33E-01	7.57E-01	9.49E-01	1.25E+00	1.45E+00	1.88E+00	2.21E+00	2.72E+00	3.16E+00	3.76E+00	4.31E+00	4.82E+00	5.90E+00	7.06E+00	7.66E+00	7.78E+00	7.78E+00
8.0E-01	1.96E-02	8.90E-02	1.23E-01	1.99E-01	3.49E-01	4.39E-01	6.32E-01	7.57E-01	9.49E-01	1.24E+00	1.44E+00	1.88E+00	2.21E+00	2.71E+00	3.16E+00	3.76E+00	4.24E+00	4.74E+00	5.78E+00	6.89E+00	7.46E+00	7.55E+00	7.55E+00
1.0E+00	1.96E-02	8.88E-02	1.23E-01	1.98E-01	3.47E-01	4.37E-01	6.30E-01	7.55E-01	9.47E-01	1.23E+00	1.43E+00	1.85E+00	2.18E+00	2.69E+00	3.13E+00	3.74E+00	4.11E+00	4.56E+00	5.50E+00	6.47E+00	6.96E+00	7.05E+00	7.05E+00
1.2E+00	1.96E-02	8.88E-02	1.23E-01	1.98E-01	3.46E-01	4.36E-01	6.28E-01	7.53E-01	9.45E-01	1.21E+00	1.41E+00	1.84E+00	2.17E+00	2.67E+00	3.12E+00	3.72E+00	3.99E+00	4.39E+00	5.19E+00	6.01E+00	6.41E+00	6.49E+00	6.49E+00
1.4E+00	1.96E-02	8.86E-02	1.23E-01	1.98E-01	3.43E-01	4.33E-01	6.26E-01	7.51E-01	9.43E-01	1.19E+00	1.39E+00	1.81E+00	2.14E+00	2.64E+00	3.08E+00	3.68E+00	3.88E+00	4.21E+00	4.87E+00	5.53E+00	5.84E+00	5.91E+00	5.91E+00
1.6E+00	1.96E-02	8.84E-02	1.22E-01	1.98E-01	3.41E-01	4.30E-01	6.23E-01	7.48E-01	9.40E-01	1.17E+00	1.36E+00	1.78E+00	2.11E+00	2.61E+00	3.05E+00	3.65E+00	3.79E+00	4.06E+00	4.57E+00	5.08E+00	5.32E+00	5.37E+00	5.37E+00
1.8E+00	1.96E-02	8.82E-02	1.22E-01	1.98E-01	3.38E-01	4.27E-01	6.20E-01	7.45E-01	9.37E-01	1.14E+00	1.34E+00	1.75E+00	2.07E+00	2.57E+00	3.02E+00	3.61E+00	3.71E+00	3.93E+00	4.30E+00	4.69E+00	4.87E+00	4.90E+00	4.90E+00
2.0E+00	1.96E-02	8.78E-02	1.22E-01	1.97E-01	3.34E-01	4.24E-01	6.16E-01	7.41E-01	9.33E-01	1.12E+00	1.31E+00	1.71E+00	2.03E+00	2.53E+00	2.97E+00	3.57E+00	3.64E+00	3.80E+00	4.08E+00	4.36E+00	4.49E+00	4.51E+00	4.51E+00
2.4E+00	1.95E-02	8.71E-02	1.21E-01	1.97E-01	3.27E-01	4.16E-01	6.08E-01	7.33E-01	9.25E-01	1.07E+00	1.25E+00	1.62E+00	1.94E+00	2.43E+00	2.87E+00	3.45E+00	3.51E+00	3.60E+00	3.73E+00	3.88E+00	3.94E+00	3.95E+00	3.95E+00
3.0E+00	1.95E-02	8.61E-02	1.20E-01	1.96E-01	3.14E-01	4.03E-01	5.92E-01	7.18E-01	9.09E-01	1.01E+00	1.17E+00	1.48E+00	1.78E+00	2.25E+00	2.66E+00	3.22E+00	3.28E+00	3.31E+00	3.37E+00	3.42E+00	3.44E+00	3.45E+00	3.45E+00
4.0E+00	1.95E-02	8.37E-02	1.18E-01	1.93E-01	2.91E-01	3.77E-01	5.60E-01	6.85E-01	8.77E-01	9.28E-01	1.04E+00	1.24E+00	1.50E+00	1.89E+00	2.25E+00	2.73E+00	2.77E+00	2.79E+00	2.84E+00	2.85E+00	2.86E+00	2.87E+00	2.87E+00
5.0E+00	1.94E-02	8.08E-02	1.15E-01	1.90E-01	2.67E-01	3.49E-01	5.21E-01	6.45E-01	8.34E-01	8.68E-01	9.34E-01	1.05E+00	1.24E+00	1.52E+00	1.82E+00	2.21E+00	2.23E+00	2.25E+00	2.28E+00	2.30E+00	2.30E+00	2.30E+00	2.30E+00
6.0E+00	1.93E-02	7.75E-02	1.11E-01	1.86E-01	2.43E-01	3.20E-01	4.76E-01	5.98E-01	7.86E-01	8.16E-01	8.52E-01	9.12E-01	1.04E+00	1.23E+00	1.45E+00	1.75E+00	1.76E+00	1.77E+00	1.79E+00	1.80E+00	1.81E+00	1.81E+00	1.81E+00
7.0E+00	1.92E-02	7.38E-02	1.07E-01	1.82E-01	2.23E-01	2.92E-01	4.30E-01	5.49E-01	7.31E-01	7.61E-01	7.81E-01	8.16E-01	8.95E-01	1.01E+00	1.17E+00	1.40E+00	1.40E+00	1.41E+00	1.42E+00	1.43E+00	1.43E+00	1.43E+00	1.43E+00
8.0E+00	1.90E-02	6.98E-02	1.03E-01	1.77E-01	2.06E-01	2.66E-01	3.84E-01	4.99E-01	6.74E-01	7.01E-01	7.15E-01	7.43E-01	7.88E-01	8.51E-01	9.74E-01	1.13E+00	1.14E+00	1.14E+00	1.15E+00	1.15E+00	1.15E+00	1.16E+00	1.16E+00
1.0E+01	1.88E-02	6.06E-02	9.28E-02	1.65E-01	1.81E-01	2.23E-01	2.99E-01	4.03E-01	5.59E-01	5.74E-01	5.87E-01	6.13E-01	6.29E-01	6.52E-01	7.12E-01	7.92E-01	7.96E-01	7.97E-01	8.01E-01	8.03E-01	8.04E-01	8.04E-01	8.10E-01
1.5E+01	1.78E-02	4.16E-02	7.18E-02	1.36E-01	1.47E-01	1.59E-01	1.77E-01	2.37E-01	3.27E-01	3.30E-01	3.37E-01	3.47E-01	3.57E-01	3.72E-01	3.82E-01	3.96E-01	3.97E-01	3.98E-01	3.99E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01
2.0E+01	1.64E-02	2.78E-02	5.18E-02	9.98E-02	1.09E-01	1.12E-01	1.20E-01	1.49E-01	1.90E-01	1.93E-01	1.94E-01	1.96E-01	2.03E-01	2.13E-01	2.15E-01	2.17E-01	2.18E-01	2.18E-01	2.18E-01	2.19E-01	2.19E-01	2.19E-01	2.20E-01
3.0E+01	1.36E-02	1.62E-02	2.96E-02	5.32E-02	5.49E-02	5.81E-02	6.49E-02	7.01E-02	7.73E-02	7.79E-02	7.86E-02	8.01E-02	8.15E-02	8.35E-02	8.36E-02	8.37E-02	8.38E-02	8.39E-02	8.41E-02	8.42E-02	8.43E-02	8.43E-02	8.40E-02
4.0E+01	1.06E-02	1.23E-02	1.87E-02	2.87E-02	2.91E-02	3.10E-02	3.43E-02	3.53E-02	3.66E-02	3.67E-02	3.71E-02	3.80E-02	3.82E-02	3.86E-02	3.86E-02	3.86E-02	3.86E-02	3.87E-02	3.88E-02	3.88E-02	3.89E-02	3.89E-02	3.90E-02
6.0E+01	5.80E-03	7.18E-03	8.62E-03	1.03E-02	1.07E-02	1.11E-02	1.17E-02	1.17E-02	1.18E-02	1.19E-02	1.20E-02	1.21E-02	1.21E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.20E-02
1.0E+02	1.66E-03	2.04E-03	2.17E-03	2.26E-03	2.36E-03	2.39E-03	2.42E-03	2.42E-03	2.42E-03	2.45E-03	2.46E-03	2.46E-03	2.46E-03	2.46E-03	2.46E-03	2.46E-03	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.50E-03
E[keV]:	7.39E+01	1.30E+01	1.24E+01	1.09E+01	3.05E+00	2.79E+00	2.46E+00	2.03E+00	1.96E+00	6.55E-01	5.47E-01	4.69E-01	2.90E-01	2.73E-01	5.40E-02	5.10E-02	8.40E-02	5.80E-02	4.60E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																							
0.0E+00	4.76E+00	5.92E+00	6.52E+00	6.96E+00	7.50E+00	8.29E+00	8.80E+00	9.13E+00	9.56E+00	9.76E+00	1.01E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.08E+01	1.09E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01		
5.0E-02	4.70E+00	5.86E+00	6.46E+00	6.90E+00	7.44E+00	8.23E+00	8.74E+00	9.07E+00	9.50E+00	9.70E+00	1.00E+01	1.02E+01	1.03E+01	1.05E+01	1.06E+01	1.08E+01	1.08E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01		
1.0E-01	4.52E+00	5.68E+00	6.28E+00	6.72E+00	7.26E+00	8.05E+00	8.55E+00	8.88E+00	9.31E+00	9.52E+00	9.84E+00	1.00E+01	1.02E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.08E+01	1.08E+01		
1.5E-01	4.26E+00	5.42E+00	6.02E+00	6.46E+00	7.00E+00	7.78E+00	8.28E+00	8.61E+00	9.05E+00	9.25E+00	9.57E+00	9.76E+00	9.88E+00	1.01E+01	1.02E+01	1.03E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01		
2.0E-01	3.92E+00	5.08E+00	5.68E+00	6.12E+00	6.66E+00	7.43E+00	7.93E+00	8.26E+00	8.70E+00	8.90E+00	9.22E+00	9.41E+00	9.53E+00	9.72E+00	9.81E+00	9.97E+00	1.00E+01	1.01E+01	1.01E+01	1.02E+01	1.02E+01		
3.0E-01	3.23E+00	4.38E+00	4.98E+00	5.43E+00	5.97E+00	6.71E+00	7.21E+00	7.54E+00	7.97E+00	8.18E+00	8.49E+00	8.68E+00	8.81E+00	9.00E+00	9.09E+00	9.24E+00	9.32E+00	9.35E+00	9.42E+00	9.44E+00	9.44E+00		
4.0E-01	2.65E+00	3.80E+00	4.40E+00	4.85E+00	5.38E+00	6.08E+00	6.59E+00	6.92E+00	7.35E+00	7.55E+00	7.86E+00	8.06E+00	8.18E+00	8.37E+00	8.46E+00	8.62E+00	8.69E+00	8.73E+00	8.79E+00	8.81E+00	8.82E+00		
5.0E-01	2.26E+00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1x10-2
1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
76Os
Σi Ji(Q)
Q

Z=77

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(3)	5f-(2)	Total
0.0E+00	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.53E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.56E-01	9.86E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.84E-01	2.58E-01	2.81E-01	2.91E-01	3.06E-01	1.40E+00	1.10E+01
5.0E-02	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.53E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.56E-01	9.86E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.83E-01	2.58E-01	2.81E-01	2.91E-01	3.06E-01	1.37E+00	1.09E+01
1.0E-01	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.53E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.56E-01	9.86E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.81E-01	2.58E-01	2.81E-01	2.91E-01	3.06E-01	1.29E+00	1.07E+01
1.5E-01	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.53E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.56E-01	9.86E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.78E-01	2.58E-01	2.80E-01	2.91E-01	3.06E-01	1.16E+00	1.05E+01
2.0E-01	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.52E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.56E-01	9.86E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.73E-01	2.58E-01	2.80E-01	2.91E-01	3.06E-01	1.01E+00	1.02E+01
3.0E-01	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.51E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.55E-01	9.86E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.60E-01	2.58E-01	2.80E-01	2.90E-01	3.06E-01	6.83E-01	9.49E+00
4.0E-01	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.50E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.53E-01	9.86E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.42E-01	2.57E-01	2.78E-01	2.90E-01	3.05E-01	4.07E-01	8.88E+00
5.0E-01	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.48E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.51E-01	9.85E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	3.20E-01	2.55E-01	2.76E-01	2.88E-01	3.02E-01	2.21E-01	8.43E+00
6.0E-01	9.62E-03	3.42E-02	1.67E-02	1.87E-02	7.46E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.49E-01	9.85E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	2.95E-01	2.52E-01	2.71E-01	2.83E-01	2.96E-01	1.16E-01	8.11E+00
7.0E-01	9.62E-03	3.41E-02	1.67E-02	1.87E-02	7.43E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.47E-01	9.85E-02	1.06E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	2.69E-01	2.47E-01	2.64E-01	2.77E-01	2.87E-01	6.70E-02	7.86E+00
8.0E-01	9.62E-03	3.41E-02	1.67E-02	1.87E-02	7.40E-02	4.42E-02	4.75E-02	3.07E-02	3.14E-02	1.44E-01	9.84E-02	1.05E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	2.42E-01	2.41E-01	2.55E-01	2.67E-01	2.75E-01	4.83E-02	7.64E+00
1.0E+00	9.62E-03	3.41E-02	1.67E-02	1.87E-02	7.32E-02	4.42E-02	4.74E-02	3.07E-02	3.14E-02	1.37E-01	9.81E-02	1.05E-01	8.03E-02	8.22E-02	7.16E-02	7.23E-02	1.88E-01	2.22E-01	2.31E-01	2.40E-01	2.43E-01	4.29E-02	7.17E+00
1.2E+00	9.62E-03	3.40E-02	1.67E-02	1.87E-02	7.24E-02	4.42E-02	4.74E-02	3.07E-02	3.14E-02	1.30E-01	9.77E-02	1.04E-01	8.02E-02	8.21E-02	7.16E-02	7.23E-02	1.40E-01	1.98E-01	2.00E-01	2.07E-01	2.04E-01	4.09E-02	6.62E+00
1.4E+00	9.62E-03	3.39E-02	1.67E-02	1.87E-02	7.13E-02	4.41E-02	4.74E-02	3.07E-02	3.14E-02	1.21E-01	9.70E-02	1.03E-01	8.02E-02	8.21E-02	7.15E-02	7.22E-02	1.00E-01	1.70E-01	1.65E-01	1.70E-01	1.65E-01	3.39E-02	6.04E+00
1.6E+00	9.61E-03	3.38E-02	1.67E-02	1.87E-02	7.02E-02	4.41E-02	4.74E-02	3.07E-02	3.14E-02	1.12E-01	9.59E-02	1.02E-01	8.00E-02	8.19E-02	7.14E-02	7.22E-02	7.11E-02	1.40E-01	1.31E-01	1.36E-01	1.29E-01	2.47E-02	5.49E+00
1.8E+00	9.61E-03	3.37E-02	1.67E-02	1.87E-02	6.88E-02	4.41E-02	4.73E-02	3.07E-02	3.14E-02	1.03E-01	9.46E-02	1.00E-01	7.98E-02	8.17E-02	7.13E-02	7.20E-02	5.13E-02	1.11E-01	9.96E-02	1.05E-01	9.80E-02	1.66E-02	5.00E+00
2.0E+00	9.61E-03	3.36E-02	1.67E-02	1.87E-02	6.74E-02	4.40E-02	4.73E-02	3.07E-02	3.14E-02	9.38E-02	9.28E-02	9.78E-02	7.95E-02	8.13E-02	7.10E-02	7.18E-02	3.91E-02	8.58E-02	7.33E-02	7.98E-02	7.27E-02	1.05E-02	4.59E+00
2.4E+00	9.60E-03	3.33E-02	1.67E-02	1.87E-02	6.42E-02	4.39E-02	4.71E-02	3.07E-02	3.14E-02	7.56E-02	8.80E-02	9.15E-02	7.83E-02	7.99E-02	7.02E-02	7.09E-02	2.98E-02	4.72E-02	3.72E-02	4.30E-02	3.78E-02	4.31E-03	3.98E+00
3.0E+00	9.59E-03	3.28E-02	1.67E-02	1.87E-02	5.88E-02	4.36E-02	4.66E-02	3.07E-02	3.14E-02	5.17E-02	7.78E-02	7.85E-02	7.48E-02	7.60E-02	6.76E-02	6.82E-02	2.88E-02	1.90E-02	1.55E-02	1.54E-02	1.30E-02	2.57E-03	3.44E+00
4.0E+00	9.56E-03	3.17E-02	1.67E-02	1.86E-02	4.87E-02	4.25E-02	4.51E-02	3.06E-02	3.14E-02	2.63E-02	5.58E-02	5.27E-02	6.39E-02	6.41E-02	6.00E-02	6.03E-02	2.08E-02	1.12E-02	1.18E-02	4.13E-03	3.78E-03	2.18E-03	2.86E+00
5.0E+00	9.52E-03	3.03E-02	1.67E-02	1.86E-02	3.83E-02	4.06E-02	4.26E-02	3.05E-02	3.12E-02	1.67E-02	3.45E-02	3.01E-02	4.87E-02	4.79E-02	4.96E-02	4.96E-02	9.43E-03	1.04E-02	9.78E-03	3.50E-03	3.40E-03	1.06E-03	2.33E+00
6.0E+00	9.48E-03	2.88E-02	1.66E-02	1.85E-02	2.89E-02	3.78E-02	3.89E-02	3.01E-02	3.07E-02	1.51E-02	1.92E-02	1.58E-02	3.33E-02	3.21E-02	3.89E-02	3.87E-02	4.04E-03	7.05E-03	5.72E-03	3.17E-03	2.98E-03	4.11E-04	1.85E+00
7.0E+00	9.42E-03	2.70E-02	1.65E-02	1.84E-02	2.10E-02	3.42E-02	3.44E-02	2.94E-02	3.00E-02	1.49E-02	1.07E-02	9.08E-03	2.08E-02	1.96E-02	2.94E-02	2.90E-02	2.90E-03	3.79E-03	2.74E-03	2.33E-03	2.11E-03	2.49E-04	1.46E+00
8.0E+00	9.36E-03	2.52E-02	1.64E-02	1.83E-02	1.51E-02	3.01E-02	2.94E-02	2.85E-02	2.89E-02	1.36E-02	7.17E-03	6.97E-03	1.22E-02	1.13E-02	2.16E-02	2.12E-02	2.85E-03	1.90E-03	1.40E-03	1.47E-03	1.29E-03	2.39E-04	1.18E+00
1.0E+01	9.20E-03	2.10E-02	1.60E-02	1.80E-02	8.20E-03	2.10E-02	2.00E-02	2.60E-02	2.60E-02	8.10E-03	6.10E-03	6.60E-03	4.30E-03	4.00E-03	1.10E-02	1.10E-02	2.10E-03	9.30E-04	9.70E-04	4.90E-04	4.20E-04	1.80E-04	8.20E-01
1.5E+01	8.70E-03	1.20E-02	1.50E-02	1.60E-02	5.70E-03	6.10E-03	4.80E-03	1.50E-02	1.50E-02	1.50E-03	3.30E-03	2.70E-03	2.50E-03	2.50E-03	2.00E-03	1.90E-03	3.10E-04	6.00E-04	4.70E-04	1.90E-04	1.80E-04	2.70E-05	4.10E-01
2.0E+01	8.10E-03	5.90E-03	1.20E-02	1.20E-02	4.50E-03	2.00E-03	2.00E-03	7.40E-03	7.00E-03	1.30E-03	7.90E-04	6.00E-04	1.70E-03	1.70E-03	3.90E-04	3.60E-04	2.50E-04	1.40E-04	1.00E-04	1.40E-04	1.30E-04	2.10E-05	2.30E-01
3.0E+01	6.70E-03	1.30E-03	6.80E-03	6.10E-03	9.20E-04	1.60E-03	1.70E-03	1.40E-03	1.20E-03	3.20E-04	3.50E-04	3.90E-04	3.80E-04	3.40E-04	2.10E-05	1.90E-05	6.40E-05	5.20E-05	5.80E-05	3.20E-05	2.70E-05	5.30E-06	8.60E-02
4.0E+01	5.30E-03	8.40E-04	3.30E-03	2.60E-03	2.10E-04	9.70E-04	8.50E-04	2.80E-04	2.30E-04	5.80E-05	2.40E-04	2.20E-04	7.70E-05	6.40E-05	1.90E-06	1.60E-06	1.10E-05	3.70E-05	3.30E-05	6.50E-06	5.10E-06	9.00E-07	4.00E-02
6.0E+01	2.90E-03	6.90E-04	7.70E-04	4.60E-04	1.60E-04	2.30E-04	1.50E-04	1.80E-05	1.30E-05	4.10E-05	5.90E-05	3.80E-05	4.80E-06	3.50E-06	4.10E-08	3.30E-08	7.40E-06	9.30E-06	5.80E-06	4.00E-07	2.80E-07	6.10E-07	1.30E-02
1.0E+02	8.60E-04	2.00E-04	6.90E-05	2.60E-05	4.90E-05	2.00E-05	7.90E-06	3.50E-07	2.00E-07	1.20E-05	4.90E-06	2.00E-06	9.20E-08	5.20E-08	2.60E-10	1.70E-10	2.20E-06	7.60E-07	3.00E-07	7.60E-09	4.10E-09	1.80E-07	2.60E-03

E[keV]: 7.61E+01 1.34E+01 1.28E+01 1.12E+01 3.17E+00 2.91E+00 2.55E+00 2.12E+00 2.04E+00 6.90E-01 5.77E-01 4.95E-01 3.12E-01 2.96E-01 6.40E-02 6.10E-02 9.60E-02 6.30E-02 5.10E-02 0.00E+00 0.00E+00 0.00E+00

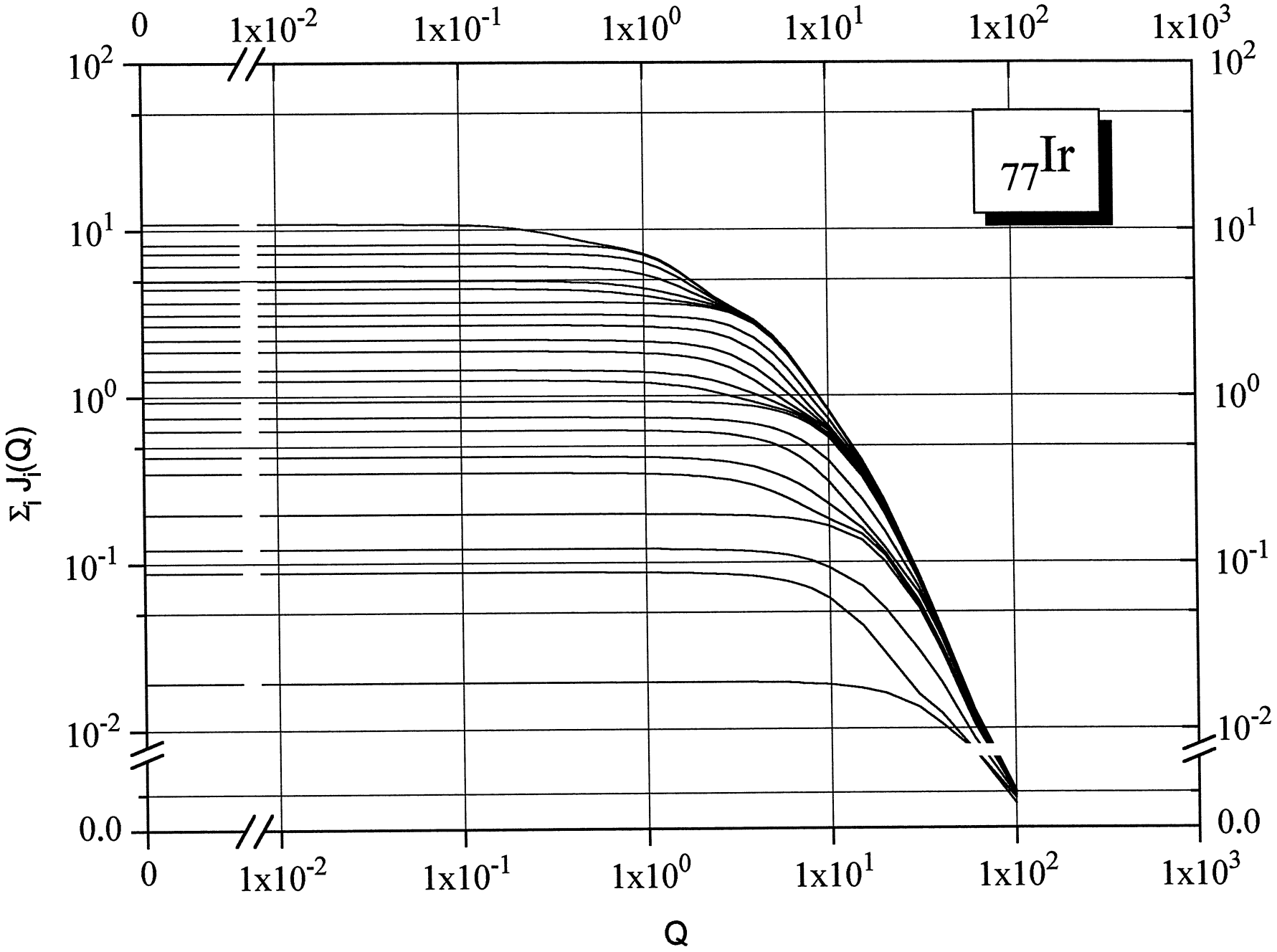
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(3)	5f-(2)	Total
0.0E+00	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.46E-01	4.35E-01	6.25E-01	7.48E-01	9.36E-01	1.25E+00	1.45E+00	1.87E+00	2.19E+00	2.68E+00	3.11E+00	3.69E+00	4.46E+00	4.98E+00	6.10E+00	7.26E+00	8.18E+00	1.10E+01	1.10E+01
5.0E-02	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.46E-01	4.35E-01	6.25E-01	7.48E-01	9.36E-01	1.25E+00	1.45E+00	1.87E+00	2.19E+00	2.68E+00	3.11E+00	3.69E+00	4.46E+00	4.97E+00	6.10E+00	7.26E+00	8.18E+00	1.09E+01	1.09E+01
1.0E-01	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.46E-01	4.35E-01	6.25E-01	7.48E-01	9.36E-01	1.25E+00	1.45E+00	1.87E+00	2.19E+00	2.68E+00	3.11E+00	3.69E+00	4.45E+00	4.97E+00	6.09E+00	7.26E+00	8.18E+00	1.08E+01	1.07E+01
1.5E-01	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.46E-01	4.35E-01	6.25E-01	7.48E-01	9.36E-01	1.25E+00	1.45E+00	1.87E+00	2.19E+00	2.68E+00	3.11E+00	3.69E+00	4.45E+00	4.96E+00	6.08E+00	7.25E+00	8.17E+00	1.05E+01	1.05E+01
2.0E-01	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.46E-01	4.35E-01	6.25E-01	7.47E-01	9.36E-01	1.25E+00	1.45E+00	1.87E+00	2.19E+00	2.68E+00	3.11E+00	3.69E+00	4.44E+00	4.95E+00	6.07E+00	7.24E+00	8.16E+00	1.02E+01	1.02E+01
3.0E-01	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.46E-01	4.34E-01	6.24E-01	7.47E-01	9.36E-01	1.25E+00	1.44E+00	1.87E+00	2.19E+00	2.68E+00	3.11E+00	3.69E+00	4.41E+00	4.93E+00	6.05E+00	7.21E+00	8.12E+00	9.49E+00	9.49E+00
4.0E-01	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.46E-01	4.34E-01	6.24E-01	7.47E-01	9.35E-01	1.24E+00	1.44E+00	1.86E+00	2.18E+00	2.68E+00	3.11E+00	3.69E+00	4.37E+00	4.88E+00	6.00E+00	7.16E+00	8.07E+00	8.88E+00	8.88E+00
5.0E-01	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.45E-01	4.34E-01	6.24E-01	7.47E-01	9.35E-01	1.24E+00	1.43E+00	1.86E+00	2.18E+00	2.67E+00	3.10E+00	3.68E+00	4.32E+00	4.83E+00	5.93E+00	7.09E+00	7.99E+00	8.43E+00	8.43E+00
6.0E-01	1.92E-02	8.76E-02	1.21E-01	1.96E-01	3.45E-01	4.33E-01	6.23E-01	7.46E-01	9.35E-01	1.23E+00	1.43E+00	1.85E+00	2.17E+00	2.67E+00	3.10E+00	3.68E+00	4.27E+00	4.77E+00	5.85E+00	6.99E+00	7.87E+00	8.11E+00	8.11E+00
7.0E-01	1.92E-02	8.74E-02	1.21E-01	1.96E-01	3.44E-01	4.33E-01	6.23E-01	7.45E-01	9.34E-01	1.23E+00	1.42E+00	1.85E+00	2.17E+00	2.66E+00	3.09E+00	3.67E+00	4.21E+00	4.70E+00	5.76E+00	6.87E+00	7.73E+00	7.86E+00	7.86E+00
8.0E-01	1.92E-02	8.74E-02	1.21E-01	1.96E-01	3.44E-01	4.32E-01	6.22E-01	7.45E-01	9.33E-01	1.22E+00	1.42E+00	1.84E+00	2.16E+00	2.65E+00	3.08E+00	3.66E+00	4.14E+00	4.63E+00	5.65E+00	6.71E+00	7.54E+00	7.64E+00	7.64E+00
1.0E+00	1.92E-02	8.74E-02	1.21E-01	1.96E-01	3.42E-01	4.30E-01	6.20E-01	7.43E-01	9.31E-01	1.21E+00	1.40E+00	1.82E+00	2.14E+00	2.64E+00	3.07E+00	3.64E+00	4.02E+00	4.46E+00	5.39E+00	6.35E+00	7.08E+00	7.16E+00	7.17E+00
1.2E+00	1.92E-02	8.72E-02	1.21E-01	1.95E-01	3.40E-01	4.29E-01	6.18E-01	7.41E-01	9.29E-01	1.19E+00	1.38E+00	1.80E+00	2.12E+00	2.61E+00	3.04E+00	3.62E+00	3.90E+00	4.30E+00	5.10E+00	5.93E+00	6.54E+00	6.62E+00	6.62E+00
1.4E+00	1.92E-02	8.70E-02	1.20E-01	1.95E-01	3.38E-01	4.26E-01	6.16E-01	7.38E-01	9.27E-01	1.17E+00	1.36E+00	1.77E+00	2.10E+00	2.59E+00	3.02E+00	3.59E+00	3.79E+00	4.13E+00	4.79E+00	5.47E+00	5.97E+00	6.04E+00	6.04E+00
1.6E+00	1.92E-02	8.68E-02	1.20E-01	1.95E-01	3.35E-01	4.24E-01	6.13E-01	7.36E-01	9.24E-01	1.15E+00	1.34E+00	1.75E+00	2.07E+00	2.56E+00	2.99E+00	3.57E+00	3.71E+00	3.99E+00	4.51E+00	5.06E+00	5.44E+00	5.49E+00	5.49E+00
1.8E+00	1.92E-02	8.66E-02	1.20E-01	1.95E-01	3.32E-01	4.21E-01	6.10E-01	7.33E-01	9.21E-01	1.13E+00	1.32E+00	1.72E+00	2.04E+00	2.53E+00	2.95E+00	3.53E+00	3.63E+00	3.85E+00	4.25E+00	4.67E+00	4.97E+00	5.00E+00	5.00E+00
2.0E+00	1.92E-02	8.64E-02	1.20E-01	1.95E-01	3.29E-01	4.17E-01	6.07E-01	7.29E-01	9.18E-01	1.11E+00	1.29E+00	1.68E+00	2.00E+00	2.49E+00	2.91E+00	3.49E+00	3.57E+00	3.74E+00	4.03E+00	4.35E+00	4.57E+00	4.59E+00	4.59E+00
2.4E+00	1.92E-02	8.58E-02	1.19E-01	1.94E-01	3.22E-01	4.10E-01	5.99E-01	7.21E-01	9.10E-01	1.06E+00	1.24E+00	1.66E+00	1.92E+00	2.40E+00	2.82E+00	3.38E+00	3.44E+00	3.54E+00	3.69E+00	3.86E+00	3.97E+00	3.98E+00	3.98E+00
3.0E+00	1.92E-02	8.48E-02	1.18E-01	1.93E-01	3.11E-01	3.98E-01	5.84E-01	7.07E-01	8.95E-01	9.99E-01	1.15E+00	1.47E+00	1.77E+00	2.22E+00	2.63E+00	3.17E+00	3.23E+00	3.27E+00	3.33E+00	3.39E+00	3.43E+00	3.44E+00	3.44E+00
4.0E+00	1.91E-02	8.25E-02	1.16E-01	1.90E-01	2.88E-01	3.73E-01	5.53E-01	6.76E-01	8.64E-01	9.17E-01	1.03E+00	1.24E+00	1.49E+00	1.88E+00	2.24E+00	2.72E+00	2.76E+00	2.79E+00	2.83E+00	2.85E+00	2.86E+00	2.86E+00	2.86E+00
5.0E+00	1.90E-02	7.96E-02	1.13E-01	1.87E-01	2.64E-01	3.45E-01	5.16E-01	6.38E-01	8.25E-01	8.58E-01	9.27E-01	1.05E+00	1.24E+00	1.53E+00	1.83E+00	2.22E+00	2.24E+00	2.26E+00	2.30E+00	2.32E+00	2.33E+00	2.33E+00	2.33E+00
6.0E+00	1.90E-02	7.66E-02	1.10E-01	1.84E-01	2.42E-01	3.17E-01	4.73E-01	5.93E-01	7.77E-01	8.08E-01	8.46E-01	9.09E-01	1.04E+00	1.23E+00	1.47E+00	1.78E+00	1.79E+00	1.80E+00	1.82E+00	1.84E+00	1.84E+00	1.85E+00	1.85E+00
7.0E+00	1.88E-02	7.28E-02	1.06E-01	1.79E-01	2.21E-01	2.90E-01	4.27E-01	5.45E-01	7.25E-01	7.55E-01	7.76E-01	8.13E-01	8.96E-01	1.01E+00	1.19E+00	1.42E+00	1.43E+00	1.44E+00	1.45E+00	1.46E+00	1.46E+00	1.46E+00	1.46E+00
8.0E+00	1.87E-02	6.91E-02	1.02E-01	1.75E-01	2.05E-01	2.66E-01	3.83E-01	4.97E-01	6.71E-01	6.98E-01	7.12E-01	7.40E-01	7.89E-01	8.57E-01	9.86E-01	1.16E+00	1.16E+00	1.17E+00	1.17E+00	1.18E+00	1.18E+00	1.18E+00	1.18E+00
1.0E+01	1.84E-02	6.04E-02	9.24E-02	1.64E-01	1.81E-01	2.23E-01	3.03E-01	4.07E-01	5.63E-01	5.79E-01	5.91E-01	6.18E-01	6.35E-01	6.59E-01	7.25E-01	8.13E-01	8.17E-01	8.19E-01	8.23E-01	8.25E-01	8.26E-01	8.26E-01	8.20E-01
1.5E+01	1.74E-02	4.14E-02	7.14E-02	1.35E-01	1.47E-01	1.59E-01	1.78E-01	2.38E-01	3.28E-01	3.31E-01	3.38E-01	3.49E-01	3.59E-01	3.74E-01	3.86E-01	4.01E-01	4.01E-01	4.03E-01	4.05E-01	4.05E-01	4.06E-01	4.06E-01	4.10E-01
2.0E+01	1.62E-02	2.80E-02	5.20E-02	1.00E-01	1.09E-01	1.13E-01	1.21E-01	1.51E-01	1.93E-01	1.95E-01	1.97E-01	1.99E-01	2.06E-01	2.16E-01	2.19E-01	2.21E-01	2.22E-01	2.22E-01	2.23E-01	2.23E-01	2.24E-01	2.24E-01	2.30E-01
3.0E+01	1.34E-02	1.60E-02	2.96E-02	5.40E-02	5.58E-02	5.90E-02	6.58E-02	7.14E-02	7.86E-02	7.93E-02	8.00E-02	8.15E-02	8.31E-02	8.51E-02	8.52E-02	8.54E-02	8.55E-02	8.56E-02	8.58E-02	8.60E-02	8.61E-02	8.61E-02	8.60E-02
4.0E+01	1.06E-02	1.23E-02	1.89E-02	2.93E-02	2.97E-02	3.16E-02	3.50E-02	3.62E-02	3.75E-02	3.77E-02	3.81E-02	3.90E-02	3.93E-02	3.97E-02	3.97E-02	3.97E-02	3.98E-02	3.98E-02	4.00E-02	4.00E-02	4.00E-02	4.00E-02	4.00E-02
6.0E+01	5.80E-03	7.18E-03	8.72E-03	1.06E-02	1.09E-02	1.13E-02	1.19E-02	1.20E-02	1.21E-02	1.22E-02	1.23E-02	1.24E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.30E-02
1.0E+02	1.72E-03	2.12E-03	2.26E-03	2.36E-03	2.46E-03	2.50E-03	2.53E-03	2.53E-03	2.53E-03	2.56E-03	2.57E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.58E-03	2.60E-03

E[keV]: 7.61E+01 1.34E+01 1.28E+01 1.12E+01 3.17E+00 2.91E+00 2.55E+00 2.12E+00 2.04E+00 6.90E-01 5.77E-01 4.95E-01 3.12E-01 2.96E-01 6.40E-02 6.10E-02 9.60E-02 6.30E-02 5.10E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																							
0.0E+00	4.88E+00	6.01E+00	6.58E+00	7.10E+00	7.53E+00	8.30E+00	8.79E+00	9.11E+00	9.54E+00	9.73E+00	1.00E+01	1.02E+01	1.04E+01	1.05E+01	1.06E+01	1.08E+01	1.09E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01		
5.0E-02	4.82E+00	5.95E+00	6.52E+00	7.04E+00	7.47E+00	8.24E+00	8.73E+00	9.05E+00	9.47E+00	9.67E+00	9.98E+00	1.02E+01	1.03E+01	1.05E+01	1.06E+01	1.07E+01	1.08E+01	1.09E+01	1.09E+01	1.09E+01	1.09E+01		
1.0E-01	4.66E+00	5.79E+00	6.36E+00	6.88E+00	7.31E+00	8.07E+00	8.57E+00	8.89E+00	9.31E+00	9.51E+00	9.82E+00	1.00E+01	1.01E+01	1.03E+01	1.04E+01	1.06E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.07E+01		
1.5E-01	4.40E+00	5.52E+00	6.10E+00	6.62E+00	7.05E+00	7.80E+00	8.30E+00	8.62E+00	9.04E+00	9.24E+00	9.55E+00	9.74E+00	9.86E+00	1.01E+01	1.01E+01	1.03E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01		
2.0E-01	4.10E+00	5.22E+00	5.80E+00	6.32E+00	6.75E+00	7.49E+00	7.99E+00	8.31E+00	8.73E+00	8.93E+00	9.24E+00	9.43E+00	9.55E+00	9.74E+00	9.83E+00	9.98E+00	1.01E+01	1.01E+01	1.02E+01	1.02E+01	1.02E+01		
3.0E-01	3.44E+00	4.56E+00	5.14E+00	5.66E+00	6.09E+00	6.81E+00	7.30E+00	7.62E+00	8.05E+00	8.24E+00	8.55E+00	8.74E+00	8.86E+00	9.05E+00	9.14E+00	9.29E+00	9.37E+00	9.40E+00	9.47E+00	9.49E+00	9.49E+00		
4.0E-01	2.98E+00	4.00E+00	4.58E+00	5.09E+00	5.52E+00	6.21E+00	6.70E+00	7.02E+00	7.45E+00	7.64E+00	7.95E+00	8.14E+00	8.26E+00	8.45E+00	8.54E+00	8.69E+00	8.76E+00	8.80E+00	8.86E+00	8.88E+00	8.88E+00		
5.0E-01	2.50E+00	3.60E+00	4.18E+00	4.69E+00	5.12E+00	5.76E+00	6.26E+00	6.58E+00	7.00E+00	7.20E+00	7.50E+00	7.69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1x10^-2
1x10^-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10^-1
10^-2
0.0
77Ir
Σ_i J_i(Q)
Q

Z=78

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(5)	5f-(1)	Total
0.0E+00	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.40E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.53E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.75E-01	2.50E-01	2.74E-01	2.87E-01	3.04E-01	1.45E+00	1.01E+01
5.0E-02	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.40E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.53E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.74E-01	2.50E-01	2.74E-01	2.87E-01	3.04E-01	1.41E+00	1.00E+01
1.0E-01	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.39E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.53E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.72E-01	2.50E-01	2.74E-01	2.87E-01	3.04E-01	1.32E+00	9.93E+00
1.5E-01	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.39E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.53E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.69E-01	2.50E-01	2.74E-01	2.87E-01	3.04E-01	1.19E+00	9.79E+00
2.0E-01	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.39E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.52E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.65E-01	2.50E-01	2.74E-01	2.87E-01	3.04E-01	1.03E+00	9.62E+00
3.0E-01	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.38E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.51E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.52E-01	2.50E-01	2.73E-01	2.86E-01	3.03E-01	6.82E-01	9.24E+00
4.0E-01	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.36E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.50E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.35E-01	2.49E-01	2.72E-01	2.86E-01	3.02E-01	3.98E-01	8.90E+00
5.0E-01	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.35E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.48E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	3.15E-01	2.47E-01	2.69E-01	2.83E-01	2.99E-01	2.11E-01	8.63E+00
6.0E-01	9.46E-03	3.36E-02	1.64E-02	1.84E-02	7.33E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.46E-01	9.64E-02	1.04E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	2.91E-01	2.45E-01	2.65E-01	2.79E-01	2.93E-01	1.08E-01	8.41E+00
7.0E-01	9.45E-03	3.36E-02	1.64E-02	1.84E-02	7.30E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.44E-01	9.63E-02	1.03E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	2.66E-01	2.40E-01	2.59E-01	2.73E-01	2.84E-01	6.12E-02	8.20E+00
8.0E-01	9.45E-03	3.35E-02	1.64E-02	1.84E-02	7.27E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.41E-01	9.62E-02	1.03E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	2.40E-01	2.35E-01	2.51E-01	2.63E-01	2.72E-01	4.37E-02	7.98E+00
1.0E+00	9.45E-03	3.35E-02	1.64E-02	1.84E-02	7.20E-02	4.34E-02	4.67E-02	3.02E-02	3.09E-02	1.35E-01	9.60E-02	1.03E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	1.89E-01	2.18E-01	2.28E-01	2.37E-01	2.39E-01	3.88E-02	7.47E+00
1.2E+00	9.45E-03	3.34E-02	1.64E-02	1.84E-02	7.12E-02	4.33E-02	4.67E-02	3.02E-02	3.09E-02	1.28E-01	9.56E-02	1.02E-01	7.84E-02	8.03E-02	6.90E-02	6.98E-02	1.42E-01	1.96E-01	1.99E-01	2.04E-01	2.02E-01	3.70E-02	6.88E+00
1.4E+00	9.45E-03	3.33E-02	1.64E-02	1.84E-02	7.02E-02	4.33E-02	4.66E-02	3.02E-02	3.09E-02	1.20E-01	9.50E-02	1.02E-01	7.83E-02	8.02E-02	6.90E-02	6.98E-02	1.03E-01	1.70E-01	1.66E-01	1.70E-01	1.64E-01	3.07E-02	6.26E+00
1.6E+00	9.45E-03	3.32E-02	1.64E-02	1.84E-02	6.91E-02	4.33E-02	4.66E-02	3.02E-02	3.09E-02	1.12E-01	9.40E-02	1.00E-01	7.82E-02	8.01E-02	6.89E-02	6.97E-02	7.39E-02	1.42E-01	1.33E-01	1.37E-01	1.29E-01	2.27E-02	5.67E+00
1.8E+00	9.44E-03	3.31E-02	1.64E-02	1.84E-02	6.78E-02	4.33E-02	4.66E-02	3.02E-02	3.09E-02	1.03E-01	9.28E-02	9.85E-02	7.80E-02	7.98E-02	6.88E-02	6.96E-02	5.34E-02	1.15E-01	1.03E-01	1.07E-01	9.95E-02	1.54E-02	5.14E+00
2.0E+00	9.44E-03	3.30E-02	1.64E-02	1.84E-02	6.65E-02	4.32E-02	4.65E-02	3.02E-02	3.09E-02	9.37E-02	9.12E-02	9.63E-02	7.77E-02	7.95E-02	6.86E-02	6.94E-02	4.05E-02	8.99E-02	7.69E-02	8.24E-02	7.49E-02	9.94E-03	4.70E+00
2.4E+00	9.43E-03	3.27E-02	1.64E-02	1.84E-02	6.34E-02	4.31E-02	4.64E-02	3.02E-02	3.09E-02	7.61E-02	8.67E-02	9.04E-02	7.67E-02	7.83E-02	6.79E-02	6.87E-02	2.98E-02	5.10E-02	4.00E-02	4.58E-02	4.02E-02	4.12E-03	4.03E+00
3.0E+00	9.42E-03	3.22E-02	1.64E-02	1.84E-02	5.82E-02	4.28E-02	4.59E-02	3.02E-02	3.09E-02	5.27E-02	7.73E-02	7.83E-02	7.36E-02	7.48E-02	6.59E-02	6.66E-02	2.84E-02	2.08E-02	1.64E-02	1.72E-02	1.45E-02	2.29E-03	3.43E+00
4.0E+00	9.39E-03	3.12E-02	1.64E-02	1.84E-02	4.85E-02	4.18E-02	4.45E-02	3.01E-02	3.09E-02	2.71E-02	5.65E-02	5.36E-02	6.37E-02	6.40E-02	5.94E-02	5.97E-02	2.16E-02	1.12E-02	1.17E-02	4.39E-03	3.92E-03	2.00E-03	2.86E+00
5.0E+00	9.36E-03	2.99E-02	1.64E-02	1.83E-02	3.85E-02	4.01E-02	4.21E-02	3.00E-02	3.07E-02	1.69E-02	3.58E-02	3.13E-02	4.94E-02	4.87E-02	5.00E-02	5.00E-02	1.03E-02	1.06E-02	1.01E-02	3.46E-03	3.33E-03	1.04E-03	2.35E+00
6.0E+00	9.32E-03	2.84E-02	1.63E-02	1.83E-02	2.93E-02	3.74E-02	3.87E-02	2.96E-02	3.03E-02	1.49E-02	2.03E-02	1.67E-02	3.45E-02	3.33E-02	3.99E-02	3.97E-02	4.39E-03	7.58E-03	6.17E-03	3.23E-03	3.02E-03	4.13E-04	1.88E+00
7.0E+00	9.27E-03	2.68E-02	1.63E-02	1.82E-02	2.15E-02	3.41E-02	3.44E-02	2.90E-02	2.96E-02	1.48E-02	1.13E-02	9.48E-03	2.20E-02	2.08E-02	3.06E-02	3.02E-02	2.94E-03	4.24E-03	3.05E-03	2.46E-03	2.22E-03	2.32E-04	1.50E+00
8.0E+00	9.21E-03	2.50E-02	1.62E-02	1.80E-02	1.55E-02	3.02E-02	2.96E-02	2.81E-02	2.86E-02	1.36E-02	7.38E-03	7.03E-03	1.31E-02	1.22E-02	2.28E-02	2.24E-02	2.85E-03	2.15E-03	1.53E-03	1.61E-03	1.40E-03	2.15E-04	1.21E+00
1.0E+01	9.10E-03	2.10E-02	1.60E-02	1.80E-02	8.50E-03	2.20E-02	2.00E-02	2.50E-02	2.60E-02	8.50E-03	6.10E-03	6.60E-03	4.70E-03	4.30E-03	1.20E-02	1.20E-02	2.20E-03	9.60E-04	9.70E-04	5.50E-04	4.60E-04	1.70E-04	8.40E-01
1.5E+01	8.60E-03	1.20E-02	1.40E-02	1.50E-02	5.60E-03	6.50E-03	5.10E-03	1.60E-02	1.50E-02	1.60E-03	3.50E-03	2.80E-03	2.50E-03	2.50E-03	2.30E-03	2.10E-03	3.40E-04	6.40E-04	5.10E-04	1.90E-04	1.80E-04	2.60E-05	4.10E-01
2.0E+01	8.00E-03	6.10E-03	1.20E-02	1.20E-02	4.60E-03	2.00E-03	2.00E-03	7.70E-03	7.30E-03	1.40E-03	8.70E-04	6.40E-04	1.80E-03	1.70E-03	4.40E-04	4.10E-04	2.50E-04	1.60E-04	1.10E-04	1.50E-04	1.30E-04	1.90E-05	2.30E-01
3.0E+01	6.70E-03	1.40E-03	6.90E-03	6.20E-03	1.00E-03	1.50E-03	1.70E-03	1.50E-03	1.30E-03	3.60E-04	3.40E-04	4.00E-04	4.20E-04	3.70E-04	2.50E-05	2.20E-05	7.10E-05	5.30E-05	5.90E-05	3.50E-05	3.00E-05	5.40E-06	8.90E-02
4.0E+01	5.30E-03	8.30E-04	3.50E-03	2.70E-03	2.20E-04	1.00E-03	8.80E-04	3.00E-04	2.50E-04	6.20E-05	2.50E-04	2.30E-04	8.50E-05	7.10E-05	2.20E-06	1.90E-06	1.20E-05	4.00E-05	3.50E-05	7.30E-06	5.70E-06	8.90E-07	4.10E-02
6.0E+01	3.00E-03	7.00E-04	8.20E-04	4.90E-04	1.70E-04	2.50E-04	1.60E-04	2.00E-05	1.40E-05	4.10E-05	6.40E-05	4.10E-05	5.40E-06	4.00E-06	5.00E-08	3.90E-08	7.50E-06	1.00E-05	6.40E-06	4.60E-07	3.20E-07	5.60E-07	1.30E-02
1.0E+02	8.90E-04	2.10E-04	7.50E-05	2.80E-05	5.10E-05	2.20E-05	8.60E-06	3.90E-07	2.20E-07	1.30E-05	5.40E-06	2.20E-06	1.10E-07	6.00E-08	3.10E-10	2.00E-10	2.40E-06	8.60E-07	3.30E-07	8.90E-09	4.70E-09	1.80E-07	2.70E-03

E[keV]: 7.84E+01 1.39E+01 1.33E+01 1.16E+01 3.30E+00 3.03E+00 2.65E+00 2.20E+00 2.12E+00 7.24E-01 6.08E-01 5.20E-01 3.32E-01 3.15E-01 7.50E-02 7.10E-02 1.02E-01 6.60E-02 5.20E-02 0.00E+00 0.00E+00 0.00E+00

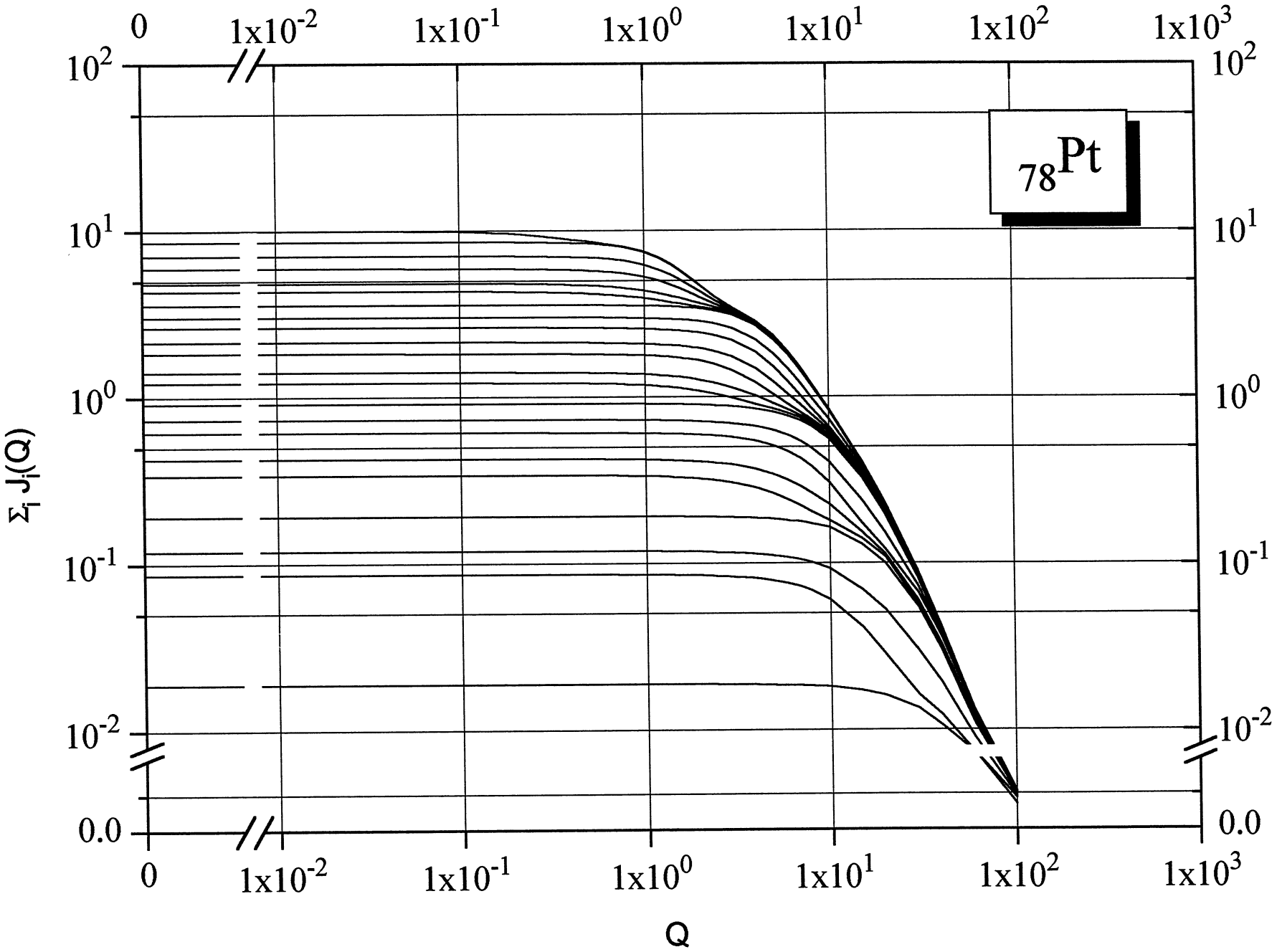
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(5)	5f-(1)	Total
0.0E+00	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.41E-01	4.27E-01	6.14E-01	7.35E-01	9.20E-01	1.23E+00	1.42E+00	1.84E+00	2.15E+00	2.63E+00	3.04E+00	3.60E+00	4.35E+00	4.85E+00	5.95E+00	7.10E+00	8.62E+00	1.01E+01	1.01E+01
5.0E-02	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.41E-01	4.27E-01	6.14E-01	7.35E-01	9.20E-01	1.23E+00	1.42E+00	1.84E+00	2.15E+00	2.63E+00	3.04E+00	3.60E+00	4.35E+00	4.85E+00	5.95E+00	7.09E+00	8.61E+00	1.00E+01	1.00E+01
1.0E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.40E-01	4.27E-01	6.14E-01	7.35E-01	9.20E-01	1.23E+00	1.42E+00	1.83E+00	2.15E+00	2.63E+00	3.04E+00	3.60E+00	4.35E+00	4.85E+00	5.94E+00	7.09E+00	8.61E+00	9.93E+00	9.93E+00
1.5E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.40E-01	4.27E-01	6.14E-01	7.35E-01	9.20E-01	1.23E+00	1.42E+00	1.83E+00	2.15E+00	2.63E+00	3.04E+00	3.60E+00	4.34E+00	4.84E+00	5.94E+00	7.08E+00	8.60E+00	9.79E+00	9.79E+00
2.0E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.40E-01	4.27E-01	6.14E-01	7.35E-01	9.20E-01	1.22E+00	1.42E+00	1.83E+00	2.15E+00	2.63E+00	3.04E+00	3.60E+00	4.33E+00	4.83E+00	5.93E+00	7.07E+00	8.59E+00	9.62E+00	9.62E+00
3.0E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.40E-01	4.27E-01	6.14E-01	7.35E-01	9.20E-01	1.22E+00	1.41E+00	1.83E+00	2.14E+00	2.63E+00	3.04E+00	3.60E+00	4.30E+00	4.80E+00	5.89E+00	7.04E+00	8.55E+00	9.24E+00	9.24E+00
4.0E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.40E-01	4.27E-01	6.13E-01	7.34E-01	9.20E-01	1.22E+00	1.41E+00	1.83E+00	2.14E+00	2.62E+00	3.04E+00	3.60E+00	4.27E+00	4.76E+00	5.85E+00	7.00E+00	8.51E+00	8.90E+00	8.90E+00
5.0E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.40E-01	4.26E-01	6.13E-01	7.34E-01	9.19E-01	1.22E+00	1.41E+00	1.82E+00	2.14E+00	2.62E+00	3.03E+00	3.59E+00	4.22E+00	4.72E+00	5.79E+00	6.92E+00	8.42E+00	8.63E+00	8.63E+00
6.0E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.39E-01	4.26E-01	6.13E-01	7.34E-01	9.19E-01	1.21E+00	1.40E+00	1.82E+00	2.13E+00	2.62E+00	3.03E+00	3.59E+00	4.17E+00	4.66E+00	5.72E+00	6.84E+00	8.30E+00	8.41E+00	8.41E+00
7.0E-01	1.89E-02	8.61E-02	1.19E-01	1.93E-01	3.39E-01	4.25E-01	6.12E-01	7.33E-01	9.18E-01	1.21E+00	1.40E+00	1.81E+00	2.12E+00	2.61E+00	3.02E+00	3.58E+00	4.11E+00	4.59E+00	5.63E+00	6.72E+00	8.14E+00	8.20E+00	8.20E+00
8.0E-01	1.89E-02	8.59E-02	1.19E-01	1.92E-01	3.38E-01	4.25E-01	6.11E-01	7.32E-01	9.18E-01	1.20E+00	1.39E+00	1.80E+00	2.12E+00	2.60E+00	3.01E+00	3.57E+00	4.05E+00	4.52E+00	5.53E+00	6.58E+00	7.94E+00	7.98E+00	7.98E+00
1.0E+00	1.89E-02	8.59E-02	1.19E-01	1.92E-01	3.36E-01	4.23E-01	6.10E-01	7.31E-01	9.16E-01	1.19E+00	1.38E+00	1.79E+00	2.10E+00	2.59E+00	3.00E+00	3.56E+00	3.94E+00	4.37E+00	5.28E+00	6.23E+00	7.43E+00	7.47E+00	7.47E+00
1.2E+00	1.89E-02	8.57E-02	1.19E-01	1.92E-01	3.35E-01	4.21E-01	6.08E-01	7.29E-01	9.14E-01	1.17E+00	1.36E+00	1.77E+00	2.08E+00	2.56E+00	2.98E+00	3.54E+00	3.82E+00	4.21E+00	5.01E+00	5.83E+00	6.84E+00	6.87E+00	6.88E+00
1.4E+00	1.89E-02	8.55E-02	1.18E-01	1.92E-01	3.32E-01	4.19E-01	6.05E-01	7.26E-01	9.12E-01	1.15E+00	1.34E+00	1.75E+00	2.06E+00	2.54E+00	2.96E+00	3.52E+00	3.72E+00	4.06E+00	4.73E+00	5.41E+00	6.23E+00	6.26E+00	6.26E+00
1.6E+00	1.89E-02	8.53E-02	1.18E-01	1.92E-01	3.30E-01	4.17E-01	6.03E-01	7.24E-01	9.09E-01	1.13E+00	1.32E+00	1.72E+00	2.03E+00	2.51E+00	2.93E+00	3.49E+00	3.63E+00	3.92E+00	4.45E+00	5.00E+00	5.64E+00	5.67E+00	5.67E+00
1.8E+00	1.89E-02	8.51E-02	1.18E-01	1.91E-01	3.27E-01	4.14E-01	6.00E-01	7.21E-01	9.06E-01	1.11E+00	1.30E+00	1.69E+00	2.00E+00	2.48E+00	2.90E+00	3.45E+00	3.56E+00	3.79E+00	4.20E+00	4.63E+00	5.13E+00	5.14E+00	5.14E+00
2.0E+00	1.89E-02	8.49E-02	1.18E-01	1.91E-01	3.24E-01	4.11E-01	5.97E-01	7.17E-01	9.03E-01	1.09E+00	1.27E+00	1.66E+00	1.97E+00	2.45E+00	2.86E+00	3.41E+00	3.49E+00	3.67E+00	3.98E+00	4.31E+00	4.68E+00	4.69E+00	4.70E+00
2.4E+00	1.89E-02	8.43E-02	1.17E-01	1.91E-01	3.17E-01	4.04E-01	5.89E-01	7.10E-01	8.95E-01	1.05E+00	1.22E+00	1.58E+00	1.89E+00	2.36E+00	2.77E+00	3.32E+00	3.38E+00	3.48E+00	3.64E+00	3.82E+00	4.02E+00	4.03E+00	4.03E+00
3.0E+00	1.88E-02	8.32E-02	1.16E-01	1.90E-01	3.06E-01	3.92E-01	5.75E-01	6.96E-01	8.81E-01	9.87E-01	1.14E+00	1.45E+00	1.75E+00	2.20E+00	2.59E+00	3.13E+00	3.18E+00	3.22E+00	3.29E+00	3.36E+00	3.43E+00	3.43E+00	3.43E+00
4.0E+00	1.88E-02	8.12E-02	1.14E-01	1.88E-01	2.85E-01	3.68E-01	5.46E-01	6.67E-01	8.52E-01	9.06E-01	1.02E+00	1.23E+00	1.49E+00	1.87E+00	2.23E+00	2.71E+00	2.75E+00	2.77E+00	2.82E+00	2.84E+00	2.86E+00	2.86E+00	2.86E+00
5.0E+00	1.87E-02	7.85E-02	1.11E-01	1.85E-01	2.62E-01	3.42E-01	5.10E-01	6.30E-01	8.14E-01	8.48E-01	9.20E-01	1.04E+00	1.24E+00	1.53E+00	1.83E+00	2.23E+00	2.26E+00	2.28E+00	2.32E+00	2.33E+00	2.35E+00	2.35E+00	2.35E+00
6.0E+00	1.86E-02	7.54E-02	1.08E-01	1.81E-01	2.40E-01	3.15E-01	4.69E-01	5.88E-01	7.70E-01	7.99E-01	8.40E-01	9.07E-01	1.04E+00	1.24E+00	1.48E+00	1.80E+00	1.81E+00	1.83E+00	1.85E+00	1.86E+00	1.88E+00	1.88E+00	1.88E+00
7.0E+00	1.85E-02	7.21E-02	1.05E-01	1.78E-01	2.21E-01	2.89E-01	4.26E-01	5.42E-01	7.20E-01	7.50E-01	7.72E-01	8.10E-01	8.98E-01	1.02E+00	1.21E+00	1.45E+00	1.45E+00	1.46E+00	1.47E+00	1.48E+00	1.50E+00	1.50E+00	1.50E+00
8.0E+00	1.84E-02	6.84E-02	1.01E-01	1.73E-01	2.04E-01	2.64E-01	3.83E-01	4.95E-01	6.67E-01	6.94E-01	7.09E-01	7.37E-01	7.89E-01	8.62E-01	9.99E-01	1.18E+00	1.18E+00	1.19E+00	1.19E+00	1.20E+00	1.21E+00	1.21E+00	1.21E+00
1.0E+01	1.82E-02	6.02E-02	9.22E-02	1.64E-01	1.81E-01	2.25E-01	3.05E-01	4.05E-01	5.61E-01	5.78E-01	5.90E-01	6.17E-01	6.36E-01	6.61E-01	7.33E-01	8.29E-01	8.34E-01	8.36E-01	8.40E-01	8.42E-01	8.44E-01	8.40E-01	8.40E-01
1.5E+01	1.72E-02	4.12E-02	6.92E-02	1.29E-01	1.40E-01	1.53E-01	1.74E-01	2.38E-01	3.28E-01	3.31E-01	3.38E-01	3.49E-01	3.59E-01	3.74E-01	3.88E-01	4.05E-01	4.05E-01	4.07E-01	4.09E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01
2.0E+01	1.60E-02	2.82E-02	5.22E-02	1.00E-01	1.09E-01	1.13E-01	1.21E-01	1.52E-01	1.96E-01	1.99E-01	2.01E-01	2.03E-01	2.10E-01	2.21E-01	2.23E-01	2.26E-01	2.27E-01	2.27E-01	2.28E-01	2.28E-01	2.29E-01	2.29E-01	2.30E-01
3.0E+01	1.34E-02	1.62E-02	3.00E-02	5.48E-02	5.68E-02	5.98E-02	6.66E-02	7.26E-02	8.04E-02	8.11E-02	8.18E-02	8.34E-02	8.51E-02	8.73E-02	8.74E-02	8.76E-02	8.78E-02	8.79E-02	8.81E-02	8.82E-02	8.84E-02	8.84E-02	8.90E-02
4.0E+01	1.06E-02	1.23E-02	1.93E-02	3.01E-02	3.05E-02	3.25E-02	3.60E-02	3.72E-02	3.87E-02	3.88E-02	3.93E-02	4.03E-02	4.06E-02	4.10E-02	4.10E-02	4.11E-02	4.11E-02	4.12E-02	4.13E-02	4.13E-02	4.14E-02	4.14E-02	4.10E-02
6.0E+01	6.00E-03	7.40E-03	9.04E-03	1.10E-02	1.13E-02	1.18E-02	1.25E-02	1.26E-02	1.26E-02	1.27E-02	1.29E-02	1.30E-02	1.30E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.30E-02
1.0E+02	1.78E-03	2.20E-03	2.35E-03	2.46E-03	2.56E-03	2.61E-03	2.64E-03	2.64E-03	2.65E-03	2.67E-03	2.68E-03	2.69E-03	2.69E-03	2.69E-03	2.69E-03	2.69E-03	2.70E-03	2.70E-03	2.70E-03	2.70E-03	2.70E-03	2.70E-03	2.70E-03

E[keV]: 7.84E+01 1.39E+01 1.33E+01 1.16E+01 3.30E+00 3.03E+00 2.65E+00 2.20E+00 2.12E+00 7.24E-01 6.08E-01 5.20E-01 3.32E-01 3.15E-01 7.50E-02 7.10E-02 1.02E-01 6.60E-02 5.20E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																							
0.0E+00	4.12E+00	5.21E+00	5.71E+00	6.27E+00	6.69E+00	7.44E+00	7.92E+00	8.23E+00	8.65E+00	8.84E+00	9.15E+00	9.33E+00	9.45E+00	9.64E+00	9.73E+00	9.87E+00	9.95E+00	9.98E+00	1.00E+01	1.01E+01	1.01E+01	
5.0E-02	4.08E+00	5.17E+00	5.67E+00	6.23E+00	6.65E+00	7.39E+00	7.88E+00	8.19E+00	8.61E+00	8.80E+00	9.10E+00	9.29E+00	9.41E+00	9.60E+00	9.68E+00	9.83E+00	9.91E+00	9.94E+00	1.00E+01	1.00E+01	1.00E+01		
1.0E-01	3.99E+00	5.08E+00	5.58E+00	6.14E+00	6.56E+00	7.30E+00	7.78E+00	8.10E+00	8.51E+00	8.70E+00	9.01E+00	9.20E+00	9.32E+00	9.50E+00	9.59E+00	9.74E+00	9.81E+00	9.84E+00	9.91E+00	9.93E+00	9.93E+00		
1.5E-01	3.86E+00	4.95E+00	5.45E+00	6.01E+00	6.43E+00	7.16E+00	7.65E+00	7.96E+00	8.38E+00	8.57E+00	8.87E+00	9.06E+00	9.18E+00	9.37E+00	9.45E+00	9.60E+00	9.68E+00	9.71E+00	9.78E+00	9.79E+00	9.79E+00		
2.0E-01	3.70E+00	4.79E+00	5.29E+00	5.85E+00	6.27E+00	7.00E+00	7.48E+00	7.79E+00	8.21E+00	8.40E+00	8.70E+00	8.89E+00	9.01E+00	9.20E+00	9.28E+00	9.43E+00	9.51E+00	9.54E+00	9.61E+00	9.62E+00	9.62E+00		
3.0E-01	3.34E+00	4.43E+00	4.93E+00	5.49E+00	5.91E+00	6.61E+00	7.09E+00	7.40E+00	7.82E+00	8.01E+00	8.32E+00	8.50E+00	8.62E+00	8.81E+00	8.90E+00	9.04E+00	9.12E+00	9.15E+00	9.22E+00	9.24E+00	9.24E+00		
4.0E-01	3.05E+00	4.14E+00	4.64E+00	5.20E+00	5.61E+00	6.28E+00	6.76E+00	7.08E+00	7.49E+00	7.68E+00	7.98E+00	8.17E+00	8.29E+00	8.48E+00	8.56E+00	8.71E+00	8.79E+00	8.82E+00	8.89E+00	8.90E+00	8.90E+00		
5.0E-01	2.84E+00	3.91E+00	4.41E+00	4.97E+00	5.38E+00	6.01E+00	6.49E+00	6.81E+00	7.22E+00	7.41E+00	7.71E+00	7.90E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10^-2
0.0
78Pt
Σ_i J_i(Q)
Q

Z=79

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(1)	Total
0.0E+00	9.29E-03	3.31E-02	1.61E-02	1.81E-02	7.27E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.50E-01	9.43E-02	1.02E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.63E-01	2.42E-01	2.66E-01	2.73E-01	2.88E-01	1.41E+00	1.00E+01
5.0E-02	9.29E-03	3.31E-02	1.61E-02	1.81E-02	7.27E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.50E-01	9.43E-02	1.02E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.63E-01	2.42E-01	2.66E-01	2.73E-01	2.88E-01	1.38E+00	9.99E+00
1.0E-01	9.29E-03	3.31E-02	1.61E-02	1.81E-02	7.26E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.50E-01	9.43E-02	1.02E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.61E-01	2.42E-01	2.66E-01	2.73E-01	2.88E-01	1.30E+00	9.90E+00
1.5E-01	9.29E-03	3.31E-02	1.61E-02	1.81E-02	7.26E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.49E-01	9.43E-02	1.02E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.58E-01	2.42E-01	2.66E-01	2.73E-01	2.88E-01	1.17E+00	9.77E+00
2.0E-01	9.29E-03	3.31E-02	1.61E-02	1.81E-02	7.26E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.49E-01	9.43E-02	1.02E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.54E-01	2.42E-01	2.66E-01	2.73E-01	2.88E-01	1.02E+00	9.61E+00
3.0E-01	9.29E-03	3.31E-02	1.61E-02	1.81E-02	7.25E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.48E-01	9.43E-02	1.02E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.42E-01	2.41E-01	2.65E-01	2.72E-01	2.88E-01	6.88E-01	9.25E+00
4.0E-01	9.29E-03	3.30E-02	1.61E-02	1.81E-02	7.24E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.47E-01	9.43E-02	1.01E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.27E-01	2.41E-01	2.64E-01	2.72E-01	2.87E-01	4.10E-01	8.92E+00
5.0E-01	9.29E-03	3.30E-02	1.61E-02	1.81E-02	7.22E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.45E-01	9.43E-02	1.01E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	3.08E-01	2.39E-01	2.62E-01	2.70E-01	2.85E-01	2.23E-01	8.66E+00
6.0E-01	9.29E-03	3.30E-02	1.61E-02	1.81E-02	7.20E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.43E-01	9.43E-02	1.01E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	2.86E-01	2.37E-01	2.58E-01	2.67E-01	2.81E-01	1.16E-01	8.45E+00
7.0E-01	9.29E-03	3.30E-02	1.61E-02	1.81E-02	7.17E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.41E-01	9.42E-02	1.01E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	2.63E-01	2.33E-01	2.53E-01	2.62E-01	2.73E-01	6.48E-02	8.25E+00
8.0E-01	9.29E-03	3.30E-02	1.61E-02	1.81E-02	7.15E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.39E-01	9.42E-02	1.01E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	2.39E-01	2.28E-01	2.45E-01	2.54E-01	2.63E-01	4.43E-02	8.05E+00
1.0E+00	9.29E-03	3.29E-02	1.61E-02	1.81E-02	7.08E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.33E-01	9.40E-02	1.01E-01	7.67E-02	7.85E-02	6.66E-02	6.75E-02	1.90E-01	2.14E-01	2.25E-01	2.32E-01	2.36E-01	3.74E-02	7.57E+00
1.2E+00	9.29E-03	3.29E-02	1.61E-02	1.81E-02	7.00E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.26E-01	9.36E-02	1.00E-01	7.66E-02	7.84E-02	6.66E-02	6.75E-02	1.45E-01	1.94E-01	1.98E-01	2.04E-01	2.03E-01	3.63E-02	7.00E+00
1.4E+00	9.29E-03	3.28E-02	1.61E-02	1.81E-02	6.91E-02	4.26E-02	4.59E-02	2.97E-02	3.04E-02	1.19E-01	9.30E-02	9.96E-02	7.66E-02	7.84E-02	6.66E-02	6.75E-02	1.07E-01	1.70E-01	1.68E-01	1.73E-01	1.69E-01	3.11E-02	6.40E+00
1.6E+00	9.28E-03	3.27E-02	1.61E-02	1.81E-02	6.80E-02	4.25E-02	4.59E-02	2.97E-02	3.04E-02	1.11E-01	9.22E-02	9.85E-02	7.65E-02	7.83E-02	6.66E-02	6.74E-02	7.73E-02	1.44E-01	1.36E-01	1.42E-01	1.36E-01	2.37E-02	5.80E+00
1.8E+00	9.28E-03	3.26E-02	1.61E-02	1.81E-02	6.68E-02	4.25E-02	4.58E-02	2.97E-02	3.04E-02	1.02E-01	9.10E-02	9.69E-02	7.63E-02	7.81E-02	6.65E-02	6.74E-02	5.62E-02	1.18E-01	1.07E-01	1.14E-01	1.06E-01	1.66E-02	5.27E+00
2.0E+00	9.28E-03	3.25E-02	1.61E-02	1.81E-02	6.55E-02	4.25E-02	4.58E-02	2.97E-02	3.04E-02	9.35E-02	8.96E-02	9.48E-02	7.61E-02	7.78E-02	6.64E-02	6.72E-02	4.24E-02	9.42E-02	8.12E-02	8.90E-02	8.17E-02	1.10E-02	4.80E+00
2.4E+00	9.27E-03	3.22E-02	1.61E-02	1.81E-02	6.27E-02	4.24E-02	4.56E-02	2.97E-02	3.04E-02	7.65E-02	8.55E-02	8.94E-02	7.52E-02	7.68E-02	6.59E-02	6.67E-02	3.02E-02	5.52E-02	4.35E-02	5.14E-02	4.56E-02	4.62E-03	4.08E+00
3.0E+00	9.26E-03	3.17E-02	1.61E-02	1.81E-02	5.77E-02	4.21E-02	4.52E-02	2.97E-02	3.04E-02	5.37E-02	7.67E-02	7.81E-02	7.24E-02	7.37E-02	6.42E-02	6.49E-02	2.81E-02	2.30E-02	1.78E-02	2.03E-02	1.72E-02	2.31E-03	3.44E+00
4.0E+00	9.23E-03	3.08E-02	1.61E-02	1.81E-02	4.83E-02	4.12E-02	4.39E-02	2.96E-02	3.04E-02	2.80E-02	5.71E-02	5.45E-02	6.34E-02	6.38E-02	5.87E-02	5.90E-02	2.25E-02	1.13E-02	1.17E-02	5.01E-03	4.40E-03	2.06E-03	2.85E+00
5.0E+00	9.20E-03	2.95E-02	1.61E-02	1.81E-02	3.87E-02	3.95E-02	4.17E-02	2.95E-02	3.02E-02	1.71E-02	3.69E-02	3.25E-02	5.00E-02	4.94E-02	5.03E-02	5.03E-02	1.13E-02	1.08E-02	1.05E-02	3.60E-03	3.46E-03	1.15E-03	2.36E+00
6.0E+00	9.16E-03	2.81E-02	1.60E-02	1.80E-02	2.97E-02	3.71E-02	3.84E-02	2.92E-02	2.99E-02	1.47E-02	2.14E-02	1.76E-02	3.55E-02	3.44E-02	4.07E-02	4.05E-02	4.85E-03	8.12E-03	6.70E-03	3.44E-03	3.23E-03	4.70E-04	1.91E+00
7.0E+00	9.11E-03	2.65E-02	1.60E-02	1.79E-02	2.20E-02	3.39E-02	3.44E-02	2.86E-02	2.92E-02	1.46E-02	1.20E-02	9.92E-03	2.31E-02	2.19E-02	3.17E-02	3.13E-02	3.03E-03	4.74E-03	3.42E-03	2.72E-03	2.46E-03	2.45E-04	1.53E+00
8.0E+00	9.06E-03	2.48E-02	1.59E-02	1.78E-02	1.59E-02	3.02E-02	2.97E-02	2.78E-02	2.83E-02	1.37E-02	7.65E-03	7.13E-03	1.41E-02	1.31E-02	2.39E-02	2.35E-02	2.87E-03	2.44E-03	1.71E-03	1.83E-03	1.61E-03	2.18E-04	1.23E+00
1.0E+01	8.90E-03	2.10E-02	1.60E-02	1.70E-02	8.70E-03	2.20E-02	2.00E-02	2.50E-02	2.60E-02	8.90E-03	6.00E-03	6.50E-03	5.00E-03	4.60E-03	1.30E-02	1.30E-02	2.30E-03	1.00E-03	9.90E-04	6.50E-04	5.50E-04	1.80E-04	8.60E-01
1.5E+01	8.50E-03	1.30E-02	1.40E-02	1.50E-02	5.60E-03	6.90E-03	5.30E-03	1.60E-02	1.60E-02	1.60E-03	3.70E-03	3.00E-03	2.50E-03	2.50E-03	2.50E-03	2.40E-03	3.70E-04	6.90E-04	5.60E-04	2.00E-04	1.90E-04	2.90E-05	4.20E-01
2.0E+01	7.90E-03	6.30E-03	1.20E-02	1.20E-02	4.60E-03	2.10E-03	2.00E-03	8.00E-03	7.60E-03	1.40E-03	9.50E-04	6.90E-04	1.90E-03	1.80E-03	5.00E-04	4.70E-04	2.60E-04	1.90E-04	1.20E-04	1.60E-04	1.50E-04	1.90E-05	2.40E-01
3.0E+01	6.60E-03	1.40E-03	7.00E-03	6.30E-03	1.10E-03	1.50E-03	1.70E-03	1.60E-03	1.40E-03	3.90E-04	3.40E-04	4.00E-04	4.50E-04	4.00E-04	2.90E-05	2.60E-05	7.90E-05	5.40E-05	6.10E-05	4.10E-05	3.40E-05	6.00E-06	9.10E-02
4.0E+01	5.30E-03	8.20E-04	3.60E-03	2.80E-03	2.30E-04	1.00E-03	9.20E-04	3.30E-04	2.70E-04	6.70E-05	2.60E-04	2.40E-04	9.40E-05	7.90E-05	2.60E-06	2.30E-06	1.30E-05	4.20E-05	3.70E-05	8.60E-06	6.70E-06	9.80E-07	4.20E-02
6.0E+01	3.00E-03	7.00E-04	8.70E-04	5.20E-04	1.70E-04	2.70E-04	1.70E-04	2.20E-05	1.60E-05	4.10E-05	6.80E-05	4.50E-05	6.10E-06	4.50E-06	6.00E-08	4.70E-08	7.70E-06	1.10E-05	7.00E-06	5.50E-07	3.80E-07	5.80E-07	1.30E-02
1.0E+02	9.20E-04	2.20E-04	8.20E-05	3.10E-05	5.40E-05	2.40E-05	9.40E-06	4.50E-07	2.50E-07	1.40E-05	6.00E-06	2.40E-06	1.20E-07	6.80E-08	3.80E-10	2.50E-10	2.60E-06	9.90E-07	3.80E-07	1.10E-08	5.70E-09	1.90E-07	2.80E-03

E[keV]: 8.07E+01 1.44E+01 1.37E+01 1.19E+01 3.42E+00 3.15E+00 2.74E+00 2.29E+00 2.21E+00 7.59E-01 6.44E-01 5.46E-01 3.52E-01 3.34E-01 8.80E-02 8.40E-02 1.08E-01 7.20E-02 5.40E-02 0.00E+00 0.00E+00 0.00E+00

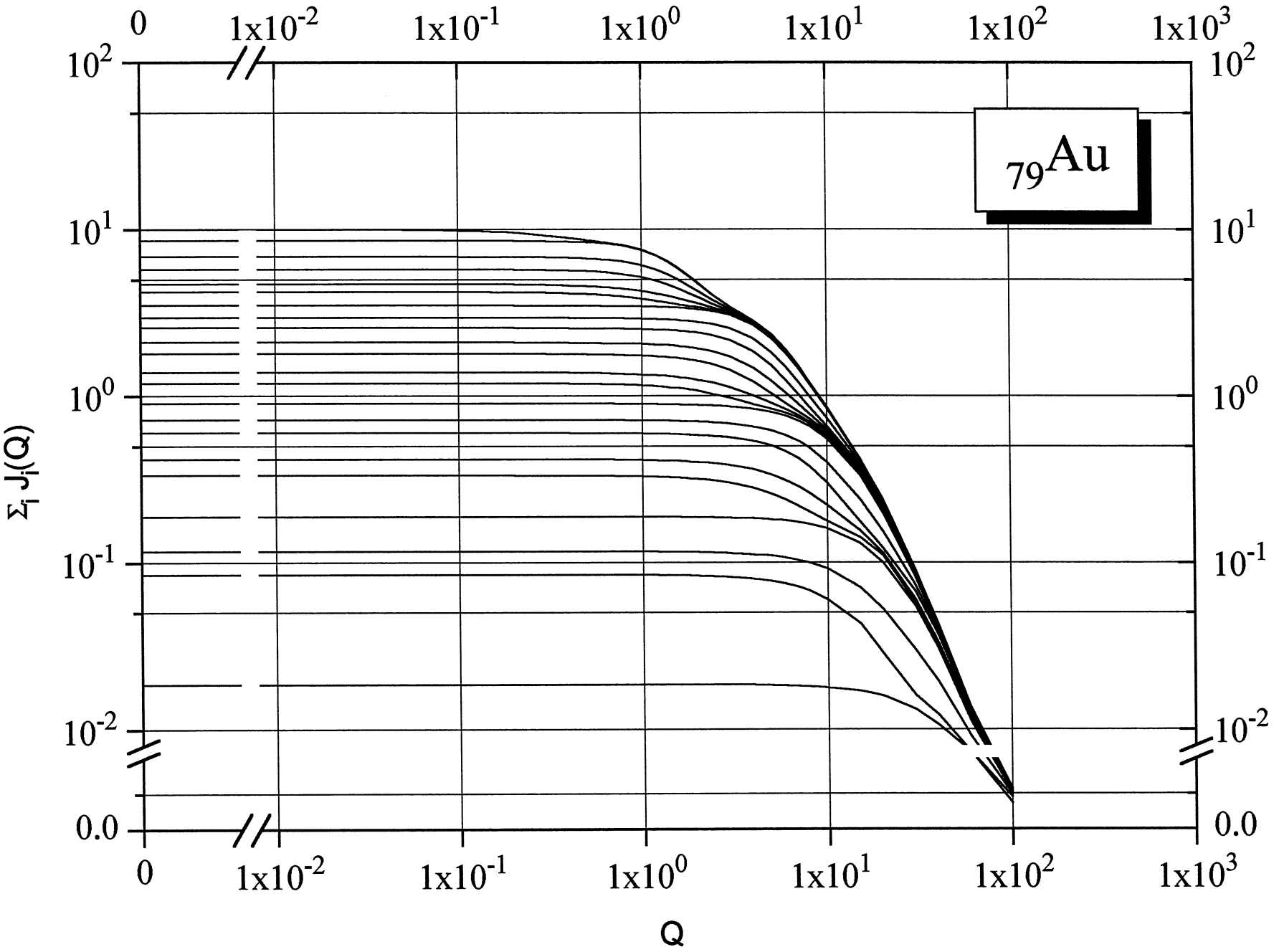
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(1)	Total
0.0E+00	1.86E-02	8.48E-02	1.17E-01	1.89E-01	3.35E-01	4.20E-01	6.04E-01	7.22E-01	9.05E-01	1.20E+00	1.39E+00	1.80E+00	2.11E+00	2.58E+00	2.98E+00	3.52E+00	4.24E+00	4.73E+00	5.79E+00	6.88E+00	8.61E+00	1.00E+01	1.00E+01
5.0E-02	1.86E-02	8.48E-02	1.17E-01	1.89E-01	3.35E-01	4.20E-01	6.04E-01	7.22E-01	9.05E-01	1.20E+00	1.39E+00	1.80E+00	2.11E+00	2.58E+00	2.98E+00	3.52E+00	4.24E+00	4.73E+00	5.79E+00	6.88E+00	8.61E+00	9.99E+00	9.99E+00
1.0E-01	1.86E-02	8.48E-02	1.17E-01	1.89E-01	3.35E-01	4.20E-01	6.03E-01	7.22E-01	9.05E-01	1.20E+00	1.39E+00	1.80E+00	2.11E+00	2.58E+00	2.98E+00	3.52E+00	4.24E+00	4.72E+00	5.79E+00	6.88E+00	8.61E+00	9.91E+00	9.90E+00
1.5E-01	1.86E-02	8.48E-02	1.17E-01	1.89E-01	3.35E-01	4.20E-01	6.03E-01	7.22E-01	9.05E-01	1.20E+00	1.39E+00	1.80E+00	2.11E+00	2.58E+00	2.98E+00	3.52E+00	4.23E+00	4.72E+00	5.78E+00	6.87E+00	8.60E+00	9.77E+00	9.77E+00
2.0E-01	1.86E-02	8.48E-02	1.17E-01	1.89E-01	3.35E-01	4.20E-01	6.03E-01	7.22E-01	9.05E-01	1.20E+00	1.39E+00	1.80E+00	2.11E+00	2.58E+00	2.98E+00	3.52E+00	4.22E+00	4.71E+00	5.77E+00	6.86E+00	8.59E+00	9.61E+00	9.61E+00
3.0E-01	1.86E-02	8.48E-02	1.17E-01	1.89E-01	3.34E-01	4.20E-01	6.03E-01	7.22E-01	9.04E-01	1.20E+00	1.39E+00	1.79E+00	2.10E+00	2.57E+00	2.97E+00	3.51E+00	4.20E+00	4.68E+00	5.74E+00	6.83E+00	8.56E+00	9.24E+00	9.25E+00
4.0E-01	1.86E-02	8.46E-02	1.17E-01	1.89E-01	3.34E-01	4.19E-01	6.03E-01	7.22E-01	9.04E-01	1.20E+00	1.39E+00	1.79E+00	2.10E+00	2.57E+00	2.97E+00	3.51E+00	4.16E+00	4.64E+00	5.70E+00	6.79E+00	8.51E+00	8.92E+00	8.92E+00
5.0E-01	1.86E-02	8.46E-02	1.17E-01	1.89E-01	3.34E-01	4.19E-01	6.02E-01	7.21E-01	9.04E-01	1.19E+00	1.38E+00	1.79E+00	2.09E+00	2.56E+00	2.96E+00	3.50E+00	4.12E+00	4.60E+00	5.65E+00	6.73E+00	8.44E+00	8.66E+00	8.66E+00
6.0E-01	1.86E-02	8.46E-02	1.17E-01	1.89E-01	3.33E-01	4.18E-01	6.02E-01	7.21E-01	9.03E-01	1.19E+00	1.38E+00	1.78E+00	2.09E+00	2.56E+00	2.96E+00	3.50E+00	4.07E+00	4.55E+00	5.58E+00	6.65E+00	8.33E+00	8.45E+00	8.45E+00
7.0E-01	1.86E-02	8.46E-02	1.17E-01	1.89E-01	3.33E-01	4.18E-01	6.01E-01	7.20E-01	9.03E-01	1.18E+00	1.37E+00	1.78E+00	2.08E+00	2.55E+00	2.95E+00	3.49E+00	4.02E+00	4.49E+00	5.50E+00	6.55E+00	8.18E+00	8.25E+00	8.25E+00
8.0E-01	1.86E-02	8.46E-02	1.17E-01	1.89E-01	3.32E-01	4.17E-01	6.01E-01	7.20E-01	9.02E-01	1.18E+00	1.37E+00	1.77E+00	2.08E+00	2.55E+00	2.95E+00	3.49E+00	3.97E+00	4.42E+00	5.40E+00	6.42E+00	8.00E+00	8.04E+00	8.05E+00
1.0E+00	1.86E-02	8.44E-02	1.17E-01	1.89E-01	3.31E-01	4.16E-01	5.99E-01	7.18E-01	9.01E-01	1.17E+00	1.35E+00	1.76E+00	2.07E+00	2.54E+00	2.94E+00	3.48E+00	3.86E+00	4.28E+00	5.18E+00	6.11E+00	7.53E+00	7.57E+00	7.57E+00
1.2E+00	1.86E-02	8.44E-02	1.17E-01	1.89E-01	3.29E-01	4.14E-01	5.98E-01	7.17E-01	8.99E-01	1.15E+00	1.34E+00	1.74E+00	2.04E+00	2.51E+00	2.91E+00	3.45E+00	3.74E+00	4.13E+00	4.92E+00	5.74E+00	6.96E+00	6.99E+00	7.00E+00
1.4E+00	1.86E-02	8.42E-02	1.16E-01	1.89E-01	3.27E-01	4.12E-01	5.96E-01	7.15E-01	8.97E-01	1.13E+00	1.32E+00	1.72E+00	2.03E+00	2.50E+00	2.90E+00	3.44E+00	3.65E+00	3.99E+00	4.66E+00	5.35E+00	6.37E+00	6.40E+00	6.40E+00
1.6E+00	1.86E-02	8.40E-02	1.16E-01	1.89E-01	3.25E-01	4.10E-01	5.93E-01	7.12E-01	8.94E-01	1.12E+00	1.30E+00	1.69E+00	2.00E+00	2.47E+00	2.87E+00	3.41E+00	3.56E+00	3.85E+00	4.40E+00	4.96E+00	5.78E+00	5.80E+00	5.80E+00
1.8E+00	1.86E-02	8.38E-02	1.16E-01	1.88E-01	3.22E-01	4.07E-01	5.90E-01	7.09E-01	8.91E-01	1.10E+00	1.28E+00	1.66E+00	1.97E+00	2.44E+00	2.84E+00	3.38E+00	3.49E+00	3.73E+00	4.15E+00	4.61E+00	5.25E+00	5.26E+00	5.27E+00
2.0E+00	1.86E-02	8.36E-02	1.16E-01	1.88E-01	3.19E-01	4.04E-01	5.87E-01	7.06E-01	8.87E-01	1.08E+00	1.25E+00	1.63E+00	1.94E+00	2.41E+00	2.80E+00	3.34E+00	3.43E+00	3.61E+00	3.94E+00	4.30E+00	4.79E+00	4.80E+00	4.80E+00
2.4E+00	1.85E-02	8.29E-02	1.15E-01	1.88E-01	3.13E-01	3.98E-01	5.80E-01	6.99E-01	8.81E-01	1.03E+00	1.21E+00	1.56E+00	1.86E+00	2.32E+00	2.72E+00	3.25E+00	3.31E+00	3.42E+00	3.60E+00	3.80E+00	4.08E+00	4.08E+00	4.08E+00
3.0E+00	1.85E-02	8.18E-02	1.14E-01	1.87E-01	3.02E-01	3.86E-01	5.67E-01	6.86E-01	8.68E-01	9.76E-01	1.13E+00	1.44E+00	1.73E+00	2.17E+00	2.56E+00	3.08E+00	3.13E+00	3.18E+00	3.25E+00	3.33E+00	3.44E+00	3.44E+00	3.44E+00
4.0E+00	1.85E-02	8.01E-02	1.12E-01	1.85E-01	2.81E-01	3.64E-01	5.39E-01	6.58E-01	8.40E-01	8.96E-01	1.01E+00	1.23E+00	1.48E+00	1.86E+00	2.22E+00	2.69E+00	2.73E+00	2.76E+00	2.80E+00	2.82E+00	2.85E+00	2.85E+00	2.85E+00
5.0E+00	1.84E-02	7.74E-02	1.10E-01	1.82E-01	2.59E-01	3.38E-01	5.05E-01	6.23E-01	8.04E-01	8.39E-01	9.12E-01	1.04E+00	1.24E+00	1.54E+00	1.84E+00	2.24E+00	2.27E+00	2.29E+00	2.33E+00	2.34E+00	2.36E+00	2.37E+00	2.36E+00
6.0E+00	1.83E-02	7.45E-02	1.07E-01	1.79E-01	2.38E-01	3.12E-01	4.66E-01	5.83E-01	7.62E-01	7.91E-01	8.34E-01	9.05E-01	1.05E+00	1.25E+00	1.50E+00	1.82E+00	1.83E+00	1.85E+00	1.87E+00	1.89E+00	1.91E+00	1.91E+00	1.91E+00
7.0E+00	1.82E-02	7.12E-02	1.03E-01	1.75E-01	2.19E-01	2.87E-01	4.24E-01	5.39E-01	7.14E-01	7.43E-01	7.67E-01	8.07E-01	8.99E-01	1.03E+00	1.22E+00	1.47E+00	1.48E+00	1.49E+00	1.50E+00	1.51E+00	1.53E+00	1.53E+00	1.53E+00
8.0E+00	1.81E-02	6.77E-02	9.95E-02	1.71E-01	2.03E-01	2.63E-01	3.82E-01	4.93E-01	6.63E-01	6.90E-01	7.05E-01	7.34E-01	7.90E-01	8.69E-01	1.01E+00	1.20E+00	1.21E+00	1.21E+00	1.22E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00
1.0E+01	1.78E-02	5.98E-02	9.18E-02	1.60E-01	1.77E-01	2.21E-01	3.01E-01	4.01E-01	5.57E-01	5.75E-01	5.87E-01	6.13E-01	6.33E-01	6.61E-01	7.39E-01	8.43E-01	8.47E-01	8.49E-01	8.53E-01	8.56E-01	8.59E-01	8.59E-01	8.60E-01
1.5E+01	1.70E-02	4.30E-02	7.10E-02	1.31E-01	1.42E-01	1.56E-01	1.77E-01	2.41E-01	3.37E-01	3.40E-01	3.48E-01	3.60E-01	3.70E-01	3.85E-01	4.00E-01	4.19E-01	4.20E-01	4.21E-01	4.24E-01	4.25E-01	4.25E-01	4.25E-01	4.25E-01
2.0E+01	1.58E-02	2.84E-02	5.24E-02	1.00E-01	1.10E-01	1.14E-01	1.22E-01	1.54E-01	1.99E-01	2.02E-01	2.04E-01	2.07E-01	2.14E-01	2.25E-01	2.28E-01	2.32E-01	2.33E-01	2.33E-01	2.33E-01	2.34E-01	2.35E-01	2.35E-01	2.40E-01
3.0E+01	1.32E-02	1.60E-02	3.00E-02	5.52E-02	5.74E-02	6.04E-02	6.72E-02	7.36E-02	8.20E-02	8.28E-02	8.35E-02	8.51E-02	8.69E-02	8.93E-02	8.94E-02	8.96E-02	8.98E-02	8.99E-02	9.02E-02	9.03E-02	9.05E-02	9.05E-02	9.10E-02
4.0E+01	1.06E-02	1.22E-02	1.94E-02	3.06E-02	3.11E-02	3.31E-02	3.68E-02	3.81E-02	3.97E-02	3.99E-02	4.04E-02	4.13E-02	4.17E-02	4.22E-02	4.22E-02	4.22E-02	4.22E-02	4.23E-02	4.25E-02	4.25E-02	4.26E-02	4.26E-02	4.20E-02
6.0E+01	6.00E-03	7.40E-03	9.14E-03	1.12E-02	1.16E-02	1.21E-02	1.28E-02	1.29E-02	1.30E-02	1.30E-02	1.32E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.30E-02
1.0E+02	1.84E-03	2.28E-03	2.44E-03	2.57E-03	2.68E-03	2.72E-03	2.76E-03	2.76E-03	2.76E-03	2.79E-03	2.80E-03	2.81E-03	2.81E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03	2.80E-03

E[keV]: 8.07E+01 1.44E+01 1.37E+01 1.19E+01 3.42E+00 3.15E+00 2.74E+00 2.29E+00 2.21E+00 7.59E-01 6.44E-01 5.46E-01 3.52E-01 3.34E-01 8.80E-02 8.40E-02 1.08E-01 7.20E-02 5.40E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																							
0.0E+00	4.23E+00	5.29E+00	5.78E+00	6.32E+00	6.72E+00	7.44E+00	7.91E+00	8.22E+00	8.63E+00	8.82E+00	9.12E+00	9.30E+00	9.42E+00	9.60E+00	9.69E+00	9.83E+00	9.91E+00	9.94E+00	1.00E+01	1.00E+01	1.00E+01	
5.0E-02	4.20E+00	5.26E+00	5.75E+00	6.29E+00	6.69E+00	7.41E+00	7.88E+00	8.19E+00	8.60E+00	8.79E+00	9.09E+00	9.27E+00	9.39E+00	9.57E+00	9.66E+00	9.80E+00	9.88E+00	9.91E+00	9.97E+00	9.99E+00	9.99E+00		
1.0E-01	4.12E+00	5.18E+00	5.67E+00	6.21E+00	6.61E+00	7.33E+00	7.80E+00	8.11E+00	8.52E+00	8.70E+00	9.00E+00	9.19E+00	9.31E+00	9.49E+00	9.57E+00	9.72E+00	9.79E+00	9.82E+00	9.89E+00	9.91E+00	9.90E+00		
1.5E-01	3.99E+00	5.05E+00	5.54E+00	6.08E+00	6.48E+00	7.19E+00	7.66E+00	7.97E+00	8.38E+00	8.57E+00	8.87E+00	9.05E+00	9.17E+00	9.35E+00	9.44E+00	9.58E+00	9.65E+00	9.69E+00	9.75E+00	9.77E+00	9.77E+00		
2.0E-01	3.84E+00	4.90E+00	5.39E+00	5.93E+00	6.33E+00	7.04E+00	7.51E+00	7.81E+00	8.22E+00	8.41E+00	8.71E+00	8.89E+00	9.01E+00	9.19E+00	9.28E+00	9.42E+00	9.50E+00	9.53E+00	9.59E+00	9.61E+00	9.61E+00		
3.0E-01	3.50E+00	4.56E+00	5.05E+00	5.59E+00	5.99E+00	6.67E+00	7.14E+00	7.45E+00	7.86E+00	8.04E+00	8.34E+00	8.52E+00	8.64E+00	8.82E+00	8.91E+00	9.06E+00	9.13E+00	9.16E+00	9.23E+00	9.24E+00	9.25E+00		
4.0E-01	3.22E+00	4.28E+00	4.76E+00	5.30E+00	5.70E+00	6.35E+00	6.82E+00	7.13E+00	7.53E+00	7.72E+00	8.02E+00	8.20E+00	8.32E+00	8.50E+00	8.59E+00	8.73E+00	8.80E+00	8.84E+00	8.90E+00	8.92E+00	8.92E+00		
5.0E-01	3.01E+00	4.06E+00	4.54E+00	5.08E+00	5.48E+00	6.09E+00	6.57E+00	6.87E+00	7.28E+00	7.47E+00	7.76E+00	7.94E


0
1x10-2
1x10-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10-1
10-2
0.0
79Au
Σi Ji(Q)
Q

Z=80

Compton profiles for the single orbitals and binding energies

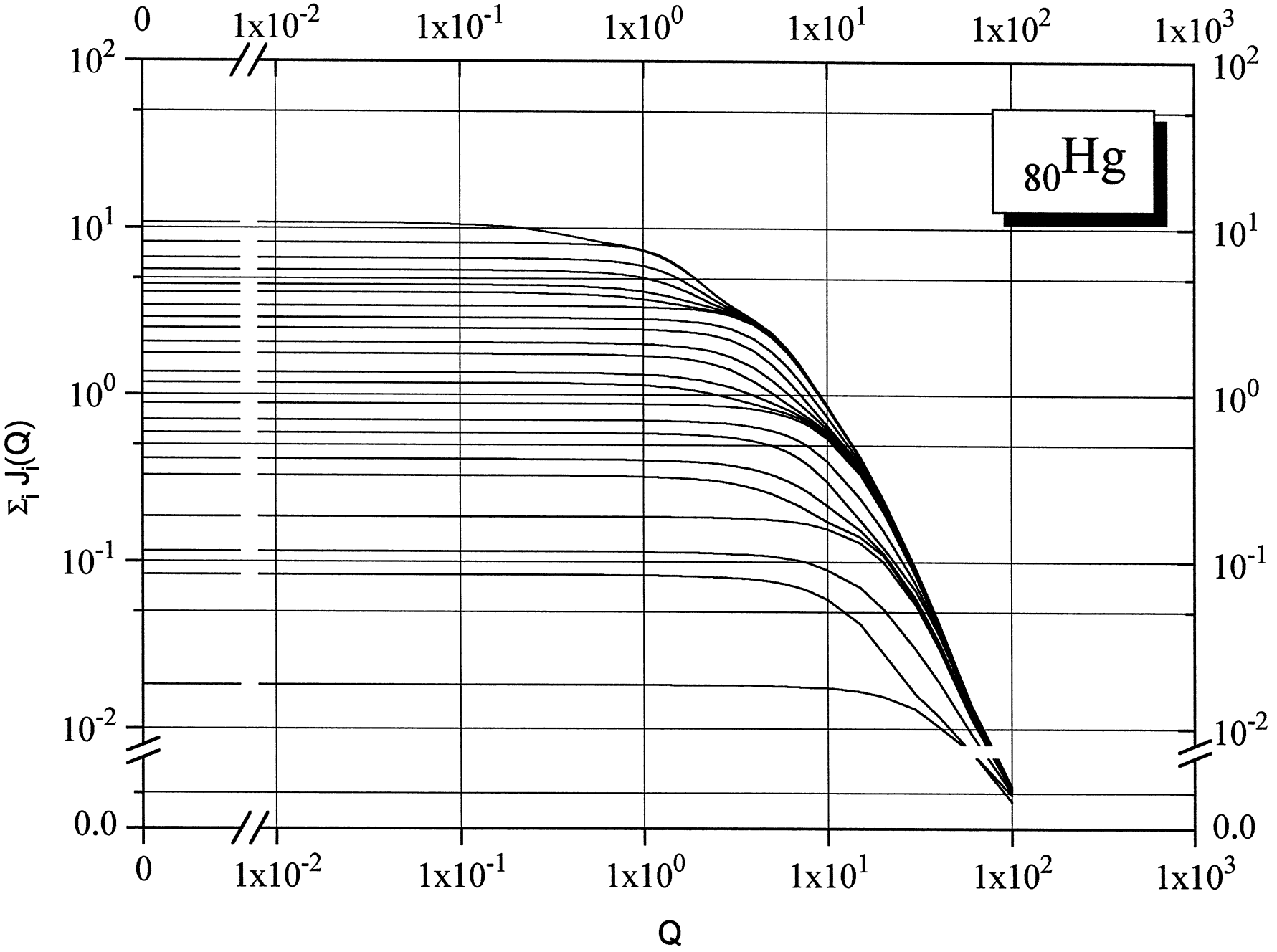
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	Total
0.0E+00	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.14E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.47E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	3.50E-01	2.33E-01	2.56E-01	2.52E-01	2.65E-01	1.29E+00	1.08E+01
5.0E-02	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.14E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.47E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	3.49E-01	2.33E-01	2.56E-01	2.52E-01	2.65E-01	1.27E+00	1.08E+01
1.0E-01	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.14E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.46E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	3.47E-01	2.33E-01	2.56E-01	2.52E-01	2.65E-01	1.21E+00	1.06E+01
1.5E-01	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.14E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.46E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	3.45E-01	2.33E-01	2.56E-01	2.52E-01	2.65E-01	1.10E+00	1.04E+01
2.0E-01	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.13E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.46E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	3.41E-01	2.33E-01	2.56E-01	2.52E-01	2.65E-01	9.76E-01	1.02E+01
3.0E-01	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.12E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.45E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	3.31E-01	2.32E-01	2.55E-01	2.52E-01	2.65E-01	6.96E-01	9.57E+00
4.0E-01	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.11E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.44E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	3.17E-01	2.32E-01	2.54E-01	2.52E-01	2.64E-01	4.43E-01	9.02E+00
5.0E-01	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.09E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.42E-01	9.23E-02	9.95E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	2.99E-01	2.31E-01	2.53E-01	2.51E-01	2.63E-01	2.58E-01	8.60E+00
6.0E-01	9.13E-03	3.25E-02	1.58E-02	1.79E-02	7.08E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.41E-01	9.23E-02	9.94E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	2.80E-01	2.29E-01	2.49E-01	2.49E-01	2.61E-01	1.43E-01	8.28E+00
7.0E-01	9.13E-03	3.24E-02	1.58E-02	1.79E-02	7.05E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.39E-01	9.22E-02	9.94E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	2.59E-01	2.26E-01	2.45E-01	2.46E-01	2.56E-01	8.12E-02	8.05E+00
8.0E-01	9.13E-03	3.24E-02	1.58E-02	1.79E-02	7.03E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.36E-01	9.22E-02	9.93E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	2.36E-01	2.21E-01	2.39E-01	2.41E-01	2.50E-01	5.26E-02	7.85E+00
1.0E+00	9.13E-03	3.24E-02	1.58E-02	1.79E-02	6.96E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.31E-01	9.20E-02	9.90E-02	7.50E-02	7.68E-02	6.45E-02	6.53E-02	1.91E-01	2.09E-01	2.21E-01	2.25E-01	2.31E-01	3.91E-02	7.45E+00
1.2E+00	9.13E-03	3.23E-02	1.58E-02	1.79E-02	6.89E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.24E-01	9.16E-02	9.85E-02	7.49E-02	7.67E-02	6.45E-02	6.53E-02	1.48E-01	1.92E-01	1.97E-01	2.04E-01	2.05E-01	3.86E-02	6.97E+00
1.4E+00	9.13E-03	3.22E-02	1.58E-02	1.79E-02	6.80E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.17E-01	9.11E-02	9.78E-02	7.49E-02	7.67E-02	6.45E-02	6.53E-02	1.11E-01	1.70E-01	1.69E-01	1.78E-01	1.76E-01	3.49E-02	6.43E+00
1.6E+00	9.12E-03	3.21E-02	1.56E-02	1.79E-02	6.70E-02	4.18E-02	4.52E-02	2.92E-02	3.00E-02	1.10E-01	9.04E-02	9.67E-02	7.48E-02	7.66E-02	6.44E-02	6.53E-02	8.13E-02	1.46E-01	1.40E-01	1.50E-01	1.46E-01	2.81E-02	5.88E+00
1.8E+00	9.12E-03	3.20E-02	1.58E-02	1.79E-02	6.59E-02	4.18E-02	4.51E-02	2.92E-02	3.00E-02	1.01E-01	8.93E-02	9.53E-02	7.47E-02	7.64E-02	6.44E-02	6.52E-02	5.96E-02	1.22E-01	1.12E-01	1.23E-01	1.17E-01	2.07E-02	5.35E+00
2.0E+00	9.12E-03	3.19E-02	1.58E-02	1.79E-02	6.46E-02	4.17E-02	4.51E-02	2.92E-02	3.00E-02	9.32E-02	8.80E-02	9.34E-02	7.45E-02	7.62E-02	6.43E-02	6.51E-02	4.49E-02	9.86E-02	8.62E-02	9.89E-02	9.25E-02	1.42E-02	4.88E+00
2.4E+00	9.11E-03	3.17E-02	1.58E-02	1.79E-02	6.19E-02	4.16E-02	4.49E-02	2.92E-02	3.00E-02	7.68E-02	8.43E-02	8.84E-02	7.37E-02	7.53E-02	6.39E-02	6.47E-02	3.09E-02	5.97E-02	4.77E-02	5.98E-02	5.40E-02	6.16E-03	4.14E+00
3.0E+00	9.10E-03	3.12E-02	1.58E-02	1.79E-02	5.71E-02	4.14E-02	4.46E-02	2.92E-02	2.99E-02	5.46E-02	7.61E-02	7.77E-02	7.12E-02	7.25E-02	6.26E-02	6.33E-02	2.80E-02	2.56E-02	1.96E-02	2.50E-02	2.15E-02	2.70E-03	3.45E+00
4.0E+00	9.08E-03	3.03E-02	1.58E-02	1.78E-02	4.82E-02	4.05E-02	4.34E-02	2.92E-02	2.99E-02	2.88E-02	5.76E-02	5.52E-02	6.30E-02	6.35E-02	5.79E-02	5.83E-02	2.34E-02	1.16E-02	1.19E-02	6.06E-03	5.30E-03	2.39E-03	2.85E+00
5.0E+00	9.04E-03	2.91E-02	1.58E-02	1.78E-02	3.88E-02	3.90E-02	4.12E-02	2.90E-02	2.97E-02	1.74E-02	3.80E-02	3.36E-02	5.04E-02	5.00E-02	5.03E-02	5.04E-02	1.25E-02	1.11E-02	1.09E-02	3.90E-03	3.79E-03	1.44E-03	2.38E+00
6.0E+00	9.00E-03	2.78E-02	1.58E-02	1.78E-02	3.00E-02	3.67E-02	3.82E-02	2.87E-02	2.94E-02	1.46E-02	2.25E-02	1.85E-02	3.65E-02	3.55E-02	4.14E-02	4.12E-02	5.41E-03	8.68E-03	7.31E-03	3.79E-03	3.62E-03	6.09E-04	1.93E+00
7.0E+00	8.96E-03	2.63E-02	1.57E-02	1.77E-02	2.24E-02	3.37E-02	3.43E-02	2.82E-02	2.89E-02	1.44E-02	1.27E-02	1.04E-02	2.42E-02	2.30E-02	3.27E-02	3.23E-02	3.17E-03	5.28E-03	3.86E-03	3.11E-03	2.86E-03	2.98E-04	1.56E+00
8.0E+00	8.91E-03	2.46E-02	1.56E-02	1.75E-02	1.64E-02	3.02E-02	2.99E-02	2.75E-02	2.80E-02	1.37E-02	7.96E-03	7.25E-03	1.50E-02	1.40E-02	2.50E-02	2.46E-02	2.91E-03	2.79E-03	1.92E-03	2.17E-03	1.93E-03	2.49E-04	1.26E+00
1.0E+01	8.80E-03	2.10E-02	1.50E-02	1.70E-02	8.90E-03	2.20E-02	2.10E-02	2.50E-02	2.50E-02	9.30E-03	5.90E-03	6.50E-03	5.40E-03	5.00E-03	1.40E-02	1.30E-02	2.50E-03	1.10E-03	1.00E-03	8.00E-04	6.80E-04	2.20E-04	8.70E-01
1.5E+01	8.40E-03	1.30E-02	1.40E-02	1.50E-02	5.50E-03	7.20E-03	5.60E-03	1.60E-02	1.60E-02	1.70E-03	3.80E-03	3.20E-03	2.50E-03	2.50E-03	2.80E-03	2.60E-03	4.10E-04	7.40E-04	6.10E-04	2.20E-04	2.10E-04	3.60E-05	4.30E-01
2.0E+01	7.80E-03	6.50E-03	1.20E-02	1.20E-02	4.70E-03	2.20E-03	2.10E-03	8.20E-03	7.80E-03	1.40E-03	1.00E-03	7.40E-04	1.90E-03	1.90E-03	5.70E-04	5.30E-04	2.60E-04	2.10E-04	1.40E-04	1.80E-04	1.70E-04	2.20E-05	2.40E-01
3.0E+01	6.60E-03	1.50E-03	7.10E-03	6.40E-03	1.20E-03	1.50E-03	1.70E-03	1.70E-03	1.50E-03	4.20E-04	3.40E-04	4.00E-04	4.80E-04	4.30E-04	3.30E-05	3.00E-05	8.90E-05	5.60E-05	6.40E-05	4.90E-05	4.10E-05	7.60E-06	9.30E-02
4.0E+01	5.20E-03	8.10E-04	3.70E-03	2.90E-03	2.40E-04	1.10E-03	9.50E-04	3.50E-04	3.00E-04	7.20E-05	2.60E-04	2.40E-04	1.00E-04	8.70E-05	3.10E-06	2.70E-06	1.50E-05	4.40E-05	4.00E-05	1.00E-05	8.30E-06	1.20E-06	4.40E-02
6.0E+01	3.10E-03	7.00E-04	9.20E-04	5.50E-04	1.60E-04	2.80E-04	1.80E-04	2.40E-05	1.80E-05	4.10E-05	7.30E-05	4.80E-05	6.90E-06	5.10E-06	7.20E-08	5.70E-08	7.90E-06	1.30E-05	7.90E-06	6.90E-07	4.80E-07	6.70E-07	1.40E-02
1.0E+02	9.50E-04	2.30E-04	9.00E-05	3.30E-05	5.60E-05	2.60E-05	1.00E-05	5.00E-07	2.80E-07	1.40E-05	6.60E-06	2.60E-06	1.40E-07	7.80E-08	4.70E-10	3.00E-10	2.80E-06	1.10E-06	4.30E-07	1.40E-08	7.40E-09	2.40E-07	2.90E-03
E[keV]:	8.31E+01	1.48E+01	1.42E+01	1.23E+01	3.56E+00	3.28E+00	2.85E+00	2.39E+00	2.30E+00	8.00E-01	6.77E-01	5.71E-01	3.79E-01	3.60E-01	1.04E-01	1.00E-01	1.20E-01	8.10E-02	5.80E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	Total
0.0E+00	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.29E-01	4.13E-01	5.94E-01	7.10E-01	8.90E-01	1.18E+00	1.37E+00	1.77E+00	2.07E+00	2.53E+00	2.91E+00	3.44E+00	4.14E+00	4.60E+00	5.63E+00	6.64E+00	8.23E+00	1.08E+01	1.08E+01
5.0E-02	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.29E-01	4.13E-01	5.94E-01	7.10E-01	8.90E-01	1.18E+00	1.37E+00	1.77E+00	2.07E+00	2.53E+00	2.91E+00	3.44E+00	4.14E+00	4.60E+00	5.63E+00	6.63E+00	8.22E+00	1.08E+01	1.08E+01
1.0E-01	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.29E-01	4.13E-01	5.94E-01	7.10E-01	8.90E-01	1.18E+00	1.37E+00	1.77E+00	2.07E+00	2.53E+00	2.91E+00	3.44E+00	4.13E+00	4.60E+00	5.62E+00	6.63E+00	8.22E+00	1.06E+01	1.06E+01
1.5E-01	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.29E-01	4.13E-01	5.94E-01	7.10E-01	8.90E-01	1.18E+00	1.37E+00	1.77E+00	2.07E+00	2.53E+00	2.91E+00	3.44E+00	4.13E+00	4.59E+00	5.62E+00	6.62E+00	8.21E+00	1.04E+01	1.04E+01
2.0E-01	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.29E-01	4.13E-01	5.93E-01	7.10E-01	8.90E-01	1.18E+00	1.37E+00	1.76E+00	2.06E+00	2.53E+00	2.91E+00	3.44E+00	4.12E+00	4.58E+00	5.61E+00	6.62E+00	8.21E+00	1.02E+01	1.02E+01
3.0E-01	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.29E-01	4.12E-01	5.93E-01	7.10E-01	8.90E-01	1.18E+00	1.36E+00	1.76E+00	2.06E+00	2.52E+00	2.91E+00	3.43E+00	4.09E+00	4.56E+00	5.58E+00	6.59E+00	8.18E+00	9.57E+00	9.57E+00
4.0E-01	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.29E-01	4.12E-01	5.93E-01	7.10E-01	8.90E-01	1.18E+00	1.36E+00	1.76E+00	2.06E+00	2.52E+00	2.91E+00	3.43E+00	4.06E+00	4.53E+00	5.54E+00	6.55E+00	8.14E+00	9.02E+00	9.02E+00
5.0E-01	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.28E-01	4.12E-01	5.93E-01	7.09E-01	8.89E-01	1.17E+00	1.36E+00	1.76E+00	2.06E+00	2.52E+00	2.90E+00	3.43E+00	4.02E+00	4.49E+00	5.50E+00	6.50E+00	8.08E+00	8.60E+00	8.60E+00
6.0E-01	1.83E-02	8.33E-02	1.15E-01	1.86E-01	3.28E-01	4.12E-01	5.92E-01	7.09E-01	8.89E-01	1.17E+00	1.36E+00	1.75E+00	2.05E+00	2.51E+00	2.90E+00	3.42E+00	3.98E+00	4.44E+00	5.44E+00	6.43E+00	8.00E+00	8.29E+00	8.28E+00
7.0E-01	1.83E-02	8.31E-02	1.15E-01	1.86E-01	3.27E-01	4.11E-01	5.92E-01	7.08E-01	8.88E-01	1.17E+00	1.35E+00	1.75E+00	2.05E+00	2.51E+00	2.90E+00	3.42E+00	3.94E+00	4.39E+00	5.37E+00	6.35E+00	7.89E+00	8.05E+00	8.05E+00
8.0E-01	1.83E-02	8.31E-02	1.15E-01	1.86E-01	3.27E-01	4.10E-01	5.91E-01	7.08E-01	8.88E-01	1.16E+00	1.34E+00	1.74E+00	2.04E+00	2.50E+00	2.89E+00	3.41E+00	3.88E+00	4.33E+00	5.28E+00	6.25E+00	7.75E+00	7.85E+00	7.85E+00
1.0E+00	1.83E-02	8.31E-02	1.15E-01	1.86E-01	3.25E-01	4.09E-01	5.90E-01	7.07E-01	8.87E-01	1.15E+00	1.33E+00	1.73E+00	2.03E+00	2.49E+00	2.88E+00	3.40E+00	3.78E+00	4.20E+00	5.08E+00	5.98E+00	7.37E+00	7.45E+00	7.45E+00
1.2E+00	1.83E-02	8.29E-02	1.15E-01	1.86E-01	3.24E-01	4.07E-01	5.88E-01	7.05E-01	8.85E-01	1.13E+00	1.31E+00	1.71E+00	2.01E+00	2.47E+00	2.86E+00	3.38E+00	3.68E+00	4.00E+00	4.82E+00	5.66E+00	6.89E+00	6.97E+00	6.97E+00
1.4E+00	1.83E-02	8.27E-02	1.14E-01	1.86E-01	3.22E-01	4.05E-01	5.86E-01	7.03E-01	8.83E-01	1.12E+00	1.30E+00	1.69E+00	1.99E+00	2.45E+00	2.84E+00	3.36E+00	3.58E+00	3.92E+00	4.60E+00	5.31E+00	6.37E+00	6.44E+00	6.43E+00
1.6E+00	1.82E-02	8.24E-02	1.14E-01	1.85E-01	3.19E-01	4.03E-01	5.84E-01	7.00E-01	8.80E-01	1.10E+00	1.28E+00	1.67E+00	1.97E+00	2.43E+00	2.81E+00	3.34E+00	3.50E+00	3.79E+00	4.35E+00	4.95E+00	5.83E+00	5.88E+00	5.88E+00
1.8E+00	1.82E-02	8.22E-02	1.14E-01	1.85E-01	3.17E-01	4.01E-01	5.81E-01	6.98E-01	8.78E-01	1.08E+00	1.26E+00	1.64E+00	1.94E+00	2.40E+00	2.78E+00	3.31E+00	3.42E+00	3.67E+00	4.12E+00	4.61E+00	5.31E+00	5.35E+00	5.35E+00
2.0E+00	1.82E-02	8.20E-02	1.14E-01	1.85E-01	3.14E-01	3.98E-01	5.78E-01	6.95E-01	8.75E-01	1.06E+00	1.24E+00	1.61E+00	1.91E+00	2.37E+00	2.75E+00	3.27E+00	3.36E+00	3.56E+00	3.90E+00	4.30E+00	4.86E+00	4.88E+00	4.88E+00
2.4E+00	1.82E-02	8.16E-02	1.13E-01	1.85E-01	3.09E-01	3.92E-01	5.71E-01	6.88E-01	8.68E-01	1.02E+00	1.19E+00	1.54E+00	1.84E+00	2.29E+00	2.67E+00	3.19E+00	3.25E+00	3.37E+00	3.56E+00	3.80E+00	4.13E+00	4.14E+00	4.14E+00
3.0E+00	1.82E-02	8.06E-02	1.12E-01	1.84E-01	2.98E-01	3.81E-01	5.59E-01	6.76E-01	8.55E-01	9.65E-01	1.12E+00	1.43E+00	1.71E+00	2.15E+00	2.52E+00	3.03E+00	3.09E+00	3.14E+00	3.22E+00	3.32E+00	3.44E+00	3.45E+00	3.45E+00
4.0E+00	1.82E-02	7.88E-02	1.10E-01	1.82E-01	2.78E-01	3.59E-01	5.33E-01	6.49E-01	8.29E-01	8.86E-01	1.00E+00	1.22E+00	1.47E+00	1.86E+00	2.20E+00	2.67E+00	2.72E+00	2.74E+00	2.79E+00	2.81E+00	2.84E+00	2.85E+00	2.85E+00
5.0E+00	1.81E-02	7.63E-02	1.08E-01	1.79E-01	2.57E-01	3.35E-01	4.99E-01	6.15E-01	7.94E-01	8.28E-01	9.04E-01	1.04E+00	1.24E+00	1.54E+00	1.84E+00	2.25E+00	2.27E+00	2.29E+00	2.34E+00	2.35E+00	2.37E+00	2.38E+00	2.38E+00
6.0E+00	1.80E-02	7.36E-02	1.05E-01	1.76E-01	2.36E-01	3.10E-01	4.63E-01	5.77E-01	7.54E-01	7.83E-01	8.28E-01	9.02E-01	1.05E+00	1.26E+00	1.51E+00	1.84E+00	1.85E+00	1.87E+00	1.90E+00	1.91E+00	1.93E+00	1.93E+00	1.93E+00
7.0E+00	1.79E-02	7.05E-02	1.02E-01	1.73E-01	2.18E-01	2.85E-01	4.22E-01	5.35E-01	7.08E-01	7.37E-01	7.63E-01	8.04E-01	9.01E-01	1.04E+00	1.24E+00	1.49E+00	1.50E+00	1.51E+00	1.53E+00	1.54E+00	1.56E+00	1.56E+00	1.56E+00
8.0E+00	1.78E-02	6.70E-02	9.88E-02	1.69E-01	2.01E-01	2.61E-01	3.84E-01	4.96E-01	6.58E-01	6.88E-01	7.11E-01	7.51E-01	8.75E-01	1.02E+00	1.23E+00	1.48E+00	1.49E+00	1.50E+00	1.52E+00	1.53E+00	1.55E+00	1.56E+00	1.56E+00
1.0E+01	1.76E-02	5.96E-02	8.96E-02	1.58E-01	1.75E-01	2.19E-01	3.03E-01	4.03E-01	5.53E-01	5.72E-01	5.84E-01	6.10E-01	6.31E-01	6.61E-01	7.45E-01	8.49E-01	8.54E-01	8.57E-01	8.61E-01	8.64E-01	8.68E-01	8.68E-01	8.70E-01
1.5E+01	1.68E-02	4.28E-02	7.08E-02	1.31E-01	1.42E-01	1.56E-01	1.79E-01	2.43E-01	3.39E-01	3.42E-01	3.50E-01	3.62E-01	3.72E-01	3.87E-01	4.04E-01	4.25E-01	4.26E-01	4.27E-01	4.30E-01	4.31E-01	4.32E-01	4.32E-01	4.30E-01
2.0E+01	1.56E-02	2.86E-02	5.26E-02	1.01E-01	1.10E-01	1.14E-01	1.23E-01	1.56E-01	2.02E-01	2.05E-01	2.07E-01	2.10E-01	2.18E-01	2.29E-01	2.33E-01	2.37E-01	2.37E-01	2.38E-01	2.38E-01	2.39E-01	2.40E-01	2.40E-01	2.40E-01
3.0E+01	1.32E-02	1.62E-02	3.04E-02	5.60E-02	5.84E-02	6.14E-02	6.82E-02	7.50E-02	8.40E-02	8.48E-02	8.55E-02	8.71E-02	8.90E-02	9.16E-02	9.18E-02	9.21E-02	9.22E-02	9.23E-02	9.26E-02	9.28E-02	9.30E-02	9.31E-02	9.30E-02
4.0E+01	1.04E-02	1.20E-02	1.94E-02	3.10E-02	3.15E-02	3.37E-02	3.75E-02	3.89E-02	4.07E-02	4.08E-02	4.14E-02	4.23E-02	4.27E-02	4.32E-02	4.33E-02	4.33E-02	4.33E-02	4.34E-02	4.36E-02	4.36E-02	4.37E-02	4.37E-02	4.40E-02
6.0E+01	6.20E-03	7.60E-03	9.44E-03	1.16E-02	1.20E-02	1.25E-02	1.32E-02	1.33E-02	1.34E-02	1.35E-02	1.37E-02	1.39E-02	1.39E-02	1.39E-02	1.39E-02	1.39E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02
1.0E+02	1.90E-03	2.36E-03	2.54E-03	2.67E-03	2.78E-03	2.84E-03	2.88E-03	2.88E-03	2.88E-03	2.91E-03	2.92E-03	2.93E-03	2.93E-03	2.93E-03	2.93E-03	2.93E-03	2.94E-03	2.94E-03	2.94E-03	2.94E-03	2.94E-03	2.94E-03	2.90E-03
E[keV]:	8.31E+01	1.48E+01	1.42E+01	1.23E+01	3.56E+00	3.28E+00	2.85E+00	2.39E+00	2.30E+00	8.00E-01	6.77E-01	5.71E-01	3.79E-01	3.60E-01	1.04E-01	1.00E-01	1.20E-01	8.10E-02	5.80E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																							
0.0E+00	5.18E+00	6.20E+00	6.67E+00	7.19E+00	7.58E+00	8.28E+00	8.74E+00	9.04E+00	9.44E+00	9.62E+00	9.91E+00	1.01E+01	1.02E+01	1.04E+01	1.05E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.08E+01	1.08E+01		
5.0E-02	5.14E+00	6.16E+00	6.63E+00	7.15E+00	7.54E+00	8.24E+00	8.70E+00	9.00E+00	9.39E+00	9.58E+00	9.87E+00	1.01E+01	1.02E+01	1.04E+01	1.04E+01	1.06E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.08E+01		
1.0E-01	5.02E+00	6.04E+00	6.51E+00	7.03E+00	7.42E+00	8.11E+00	8.57E+00	8.87E+00	9.27E+00	9.45E+00	9.75E+00	9.93E+00	1.00E+01	1.02E+01	1.03E+01	1.05E+01	1.05E+01	1.06E+01	1.06E+01	1.06E+01	1.06E+01		
1.5E-01	4.80E+00	5.82E+00	6.29E+00	6.81E+00	7.20E+00	7.89E+00	8.35E+00	8.65E+00	9.05E+00	9.23E+00	9.52E+00	9.70E+00	9.82E+00	1.00E+01	1.01E+01	1.02E+01	1.03E+01	1.03E+01	1.04E+01	1.04E+01	1.04E+01		
2.0E-01	4.55E+00	5.57E+00	6.04E+00	6.56E+00	6.95E+00	7.63E+00	8.09E+00	8.39E+00	8.79E+00	8.97E+00	9.27E+00	9.45E+00	9.56E+00	9.74E+00	9.83E+00	9.97E+00	1.00E+01	1.01E+01	1.01E+01	1.02E+01	1.02E+01		
3.0E-01	3.99E+00	5.01E+00	5.47E+00	6.00E+00	6.38E+00	7.05E+00	7.51E+00	7.81E+00	8.20E+00	8.39E+00	8.68E+00	8.86E+00	8.98E+00	9.16E+00	9.24E+00	9.38E+00	9.45E+00	9.49E+00	9.55E+00	9.57E+00	9.57E+00		
4.0E-01	3.48E+00	4.49E+00	4.96E+00	5.48E+00	5.87E+00	6.50E+00	6.96E+00	7.26E+00	7.66E+00	7.84E+00	8.13E+00	8.31E+00	8.43E+00	8.61E+00	8.69E+00	8.84E+00	8.91E+00	8.94E+00	9.00E+00	9.02E+00	9.02E+00		
5.0E-01	3.10E+00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10-2
0.0
80Hg
Σi Ji(Q)
Q

Z=81

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(1)	Total
0.0E+00	8.98E-03	3.20E-02	1.55E-02	1.76E-02	7.02E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.44E-01	9.03E-02	9.76E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	3.37E-01	2.24E-01	2.46E-01	2.35E-01	2.44E-01	1.15E+00	9.13E-01	1.11E+01
5.0E-02	8.98E-03	3.20E-02	1.55E-02	1.76E-02	7.01E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.44E-01	9.03E-02	9.76E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	3.37E-01	2.24E-01	2.46E-01	2.35E-01	2.44E-01	1.13E+00	9.13E-01	1.10E+01
1.0E-01	8.98E-03	3.20E-02	1.55E-02	1.76E-02	7.01E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.43E-01	9.03E-02	9.76E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	3.35E-01	2.24E-01	2.46E-01	2.35E-01	2.44E-01	1.08E+00	9.10E-01	1.09E+01
1.5E-01	8.98E-03	3.20E-02	1.55E-02	1.76E-02	7.01E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.43E-01	9.03E-02	9.76E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	3.33E-01	2.24E-01	2.46E-01	2.35E-01	2.44E-01	1.01E+00	8.99E-01	1.08E+01
2.0E-01	8.98E-03	3.20E-02	1.55E-02	1.76E-02	7.01E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.43E-01	9.03E-02	9.76E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	3.29E-01	2.24E-01	2.46E-01	2.35E-01	2.44E-01	9.13E-01	8.74E-01	1.06E+01
3.0E-01	8.98E-03	3.20E-02	1.55E-02	1.76E-02	7.00E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.42E-01	9.03E-02	9.76E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	3.20E-01	2.23E-01	2.46E-01	2.35E-01	2.44E-01	6.93E-01	7.71E-01	9.98E+00
4.0E-01	8.98E-03	3.19E-02	1.55E-02	1.76E-02	6.99E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.41E-01	9.03E-02	9.76E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	3.07E-01	2.23E-01	2.45E-01	2.35E-01	2.44E-01	4.77E-01	6.13E-01	9.36E+00
5.0E-01	8.97E-03	3.19E-02	1.55E-02	1.76E-02	6.97E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.40E-01	9.03E-02	9.75E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	2.92E-01	2.22E-01	2.43E-01	2.34E-01	2.43E-01	3.04E-01	4.44E-01	8.80E+00
6.0E-01	8.97E-03	3.19E-02	1.55E-02	1.76E-02	6.95E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.38E-01	9.03E-02	9.75E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	2.74E-01	2.20E-01	2.41E-01	2.33E-01	2.42E-01	1.82E-01	2.98E-01	8.34E+00
7.0E-01	8.97E-03	3.19E-02	1.55E-02	1.76E-02	6.93E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.36E-01	9.03E-02	9.75E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	2.54E-01	2.18E-01	2.37E-01	2.31E-01	2.39E-01	1.08E-01	1.89E-01	8.00E+00
8.0E-01	8.97E-03	3.19E-02	1.55E-02	1.76E-02	6.91E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.34E-01	9.02E-02	9.74E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	2.33E-01	2.14E-01	2.32E-01	2.28E-01	2.35E-01	6.86E-02	1.15E-01	7.73E+00
1.0E+00	8.97E-03	3.18E-02	1.55E-02	1.76E-02	6.85E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.29E-01	9.01E-02	9.71E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	1.91E-01	2.04E-01	2.16E-01	2.17E-01	2.23E-01	4.37E-02	4.01E-02	7.31E+00
1.2E+00	8.97E-03	3.18E-02	1.55E-02	1.76E-02	6.78E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.23E-01	8.98E-02	9.67E-02	7.33E-02	7.51E-02	6.25E-02	6.33E-02	1.50E-01	1.88E-01	1.95E-01	2.00E-01	2.03E-01	4.22E-02	1.63E-02	6.89E+00
1.4E+00	8.97E-03	3.17E-02	1.55E-02	1.76E-02	6.69E-02	4.11E-02	4.45E-02	2.87E-02	2.95E-02	1.16E-01	8.93E-02	9.60E-02	7.33E-02	7.50E-02	6.25E-02	6.33E-02	1.14E-01	1.69E-01	1.70E-01	1.79E-01	1.80E-01	4.02E-02	1.06E-02	6.42E+00
1.6E+00	8.97E-03	3.16E-02	1.55E-02	1.76E-02	6.60E-02	4.10E-02	4.45E-02	2.87E-02	2.95E-02	1.08E-01	8.86E-02	9.50E-02	7.32E-02	7.50E-02	6.25E-02	6.33E-02	8.51E-02	1.48E-01	1.43E-01	1.55E-01	1.53E-01	3.43E-02	1.00E-02	5.92E+00
1.8E+00	8.96E-03	3.15E-02	1.55E-02	1.76E-02	6.49E-02	4.10E-02	4.44E-02	2.87E-02	2.95E-02	1.01E-01	8.76E-02	9.37E-02	7.31E-02	7.48E-02	6.24E-02	6.32E-02	6.29E-02	1.25E-01	1.16E-01	1.31E-01	1.27E-01	2.65E-02	9.90E-03	5.43E+00
2.0E+00	8.96E-03	3.14E-02	1.55E-02	1.76E-02	6.37E-02	4.10E-02	4.44E-02	2.87E-02	2.95E-02	9.29E-02	8.64E-02	9.20E-02	7.29E-02	7.46E-02	6.23E-02	6.31E-02	4.75E-02	1.03E-01	9.11E-02	1.07E-01	1.03E-01	1.89E-02	9.27E-03	4.96E+00
2.4E+00	8.96E-03	3.12E-02	1.55E-02	1.76E-02	6.11E-02	4.09E-02	4.43E-02	2.87E-02	2.95E-02	7.71E-02	8.30E-02	8.73E-02	7.22E-02	7.38E-02	6.20E-02	6.28E-02	3.18E-02	6.43E-02	5.21E-02	6.78E-02	6.29E-02	8.55E-03	6.73E-03	4.20E+00
2.8E+00	8.94E-03	3.08E-02	1.55E-02	1.76E-02	5.66E-02	4.07E-02	4.39E-02	2.87E-02	2.95E-02	5.54E-02	7.55E-02	7.73E-02	7.00E-02	7.14E-02	6.10E-02	6.17E-02	2.78E-02	2.85E-02	2.16E-02	2.99E-02	2.65E-02	3.37E-03	3.04E-03	3.47E+00
3.0E+00	8.92E-03	2.99E-02	1.55E-02	1.76E-02	4.79E-02	3.99E-02	4.28E-02	2.87E-02	2.94E-02	2.97E-02	5.80E-02	5.58E-02	6.26E-02	6.31E-02	5.70E-02	5.75E-02	2.42E-02	1.19E-02	1.20E-02	7.31E-03	6.45E-03	2.86E-03	7.65E-04	2.84E+00
5.0E+00	8.89E-03	2.88E-02	1.55E-02	1.76E-02	3.89E-02	3.85E-02	4.08E-02	2.86E-02	2.93E-02	1.77E-02	3.91E-02	3.47E-02	5.08E-02	5.04E-02	5.03E-02	5.04E-02	1.36E-02	1.13E-02	1.13E-02	4.20E-03	4.13E-03	1.86E-03	6.00E-04	2.39E+00
6.0E+00	8.85E-03	2.75E-02	1.55E-02	1.75E-02	3.03E-02	3.63E-02	3.79E-02	2.83E-02	2.90E-02	1.44E-02	2.36E-02	1.94E-02	3.74E-02	3.64E-02	4.20E-02	4.18E-02	6.03E-03	9.22E-03	7.93E-03	4.10E-03	4.01E-03	8.20E-04	5.31E-04	1.96E+00
7.0E+00	8.81E-03	2.60E-02	1.54E-02	1.74E-02	2.28E-02	3.35E-02	3.42E-02	2.79E-02	2.85E-02	1.42E-02	1.35E-02	1.09E-02	2.53E-02	2.41E-02	3.35E-02	3.32E-02	3.34E-03	5.85E-03	4.34E-03	3.49E-03	3.29E-03	3.82E-04	3.53E-04	1.58E+00
8.0E+00	8.76E-03	2.44E-02	1.54E-02	1.73E-02	1.68E-02	3.02E-02	2.99E-02	2.71E-02	2.77E-02	1.37E-02	8.32E-03	7.41E-03	1.59E-02	1.49E-02	2.60E-02	2.56E-02	2.94E-03	3.17E-03	2.18E-03	2.51E-03	2.28E-03	2.97E-04	1.94E-04	1.29E+00
1.0E+01	8.60E-03	2.10E-02	1.50E-02	1.70E-02	9.20E-03	2.30E-02	2.10E-02	2.50E-02	2.50E-02	9.60E-03	5.90E-03	6.40E-03	5.90E-03	5.40E-03	1.50E-02	1.40E-02	2.60E-03	1.10E-03	1.10E-03	9.60E-04	8.30E-04	2.70E-04	6.40E-05	8.90E-01
1.5E+01	8.30E-03	1.30E-02	1.40E-02	1.50E-02	5.40E-03	7.60E-03	5.90E-03	1.60E-02	1.60E-02	1.80E-03	4.00E-03	3.40E-03	2.50E-03	2.50E-03	3.00E-03	2.90E-03	4.50E-04	8.00E-04	6.60E-04	2.40E-04	2.40E-04	4.80E-05	4.30E-05	4.40E-01
2.0E+01	7.70E-03	6.70E-03	1.20E-02	1.20E-02	4.70E-03	2.30E-03	2.10E-03	8.50E-03	8.10E-03	1.30E-03	1.10E-03	7.90E-04	2.00E-03	1.90E-03	6.40E-04	6.00E-04	2.70E-04	2.40E-04	1.60E-04	2.10E-04	1.90E-04	2.70E-05	1.30E-05	2.50E-01
3.0E+01	6.50E-03	1.60E-03	7.20E-03	6.50E-03	1.30E-03	1.50E-03	1.70E-03	1.80E-03	1.60E-03	4.60E-04	3.30E-04	4.00E-04	5.20E-04	4.70E-04	3.90E-05	5.50E-05	9.90E-05	5.70E-05	6.60E-05	5.70E-05	5.00E-05	1.00E-05	3.00E-06	9.60E-02
4.0E+01	5.20E-03	8.00E-04	3.80E-03	3.00E-03	2.50E-04	1.10E-03	9.80E-04	3.80E-04	3.20E-04	7.90E-05	2.70E-04	2.50E-04	1.10E-04	9.50E-05	3.60E-06	3.10E-06	1.60E-05	4.70E-05	4.30E-05	1.30E-05	1.00E-05	1.60E-06	2.50E-06	4.50E-02
6.0E+01	3.10E-03	7.00E-04	9.70E-04	5.80E-04	1.60E-04	3.00E-04	1.90E-04	2.70E-05	2.00E-05	4.10E-05	7.80E-05	5.20E-05	7.70E-06	5.70E-06	8.60E-08	6.80E-08	8.10E-06	1.40E-05	8.80E-06	8.50E-07	6.00E-07	8.10E-07	7.40E-07	1.40E-02
1.0E+02	9.80E-04	2.40E-04	9.70E-05	3.60E-05	5.90E-05	2.80E-05	1.10E-05	5.70E-07	3.20E-07	1.50E-05	7.30E-06	2.90E-06	1.60E-07	8.80E-08	5.60E-10	3.70E-10	3.00E-06	1.30E-06	4.90E-07	1.70E-08	9.40E-09	3.00E-07	6.80E-08	3.10E-03

E[keV]: 8.55E+01 1.53E+01 1.47E+01 1.27E+01 3.70E+00 3.42E+00 2.96E+00 2.49E+00 2.39E+00 8.46E-01 7.22E-01 6.09E-01 4.07E-01 3.86E-01 1.23E-01 1.19E-01 1.37E-01 1.00E-01 7.60E-02 1.50E-02 1.20E-02 0.00E+00 0.00E+00

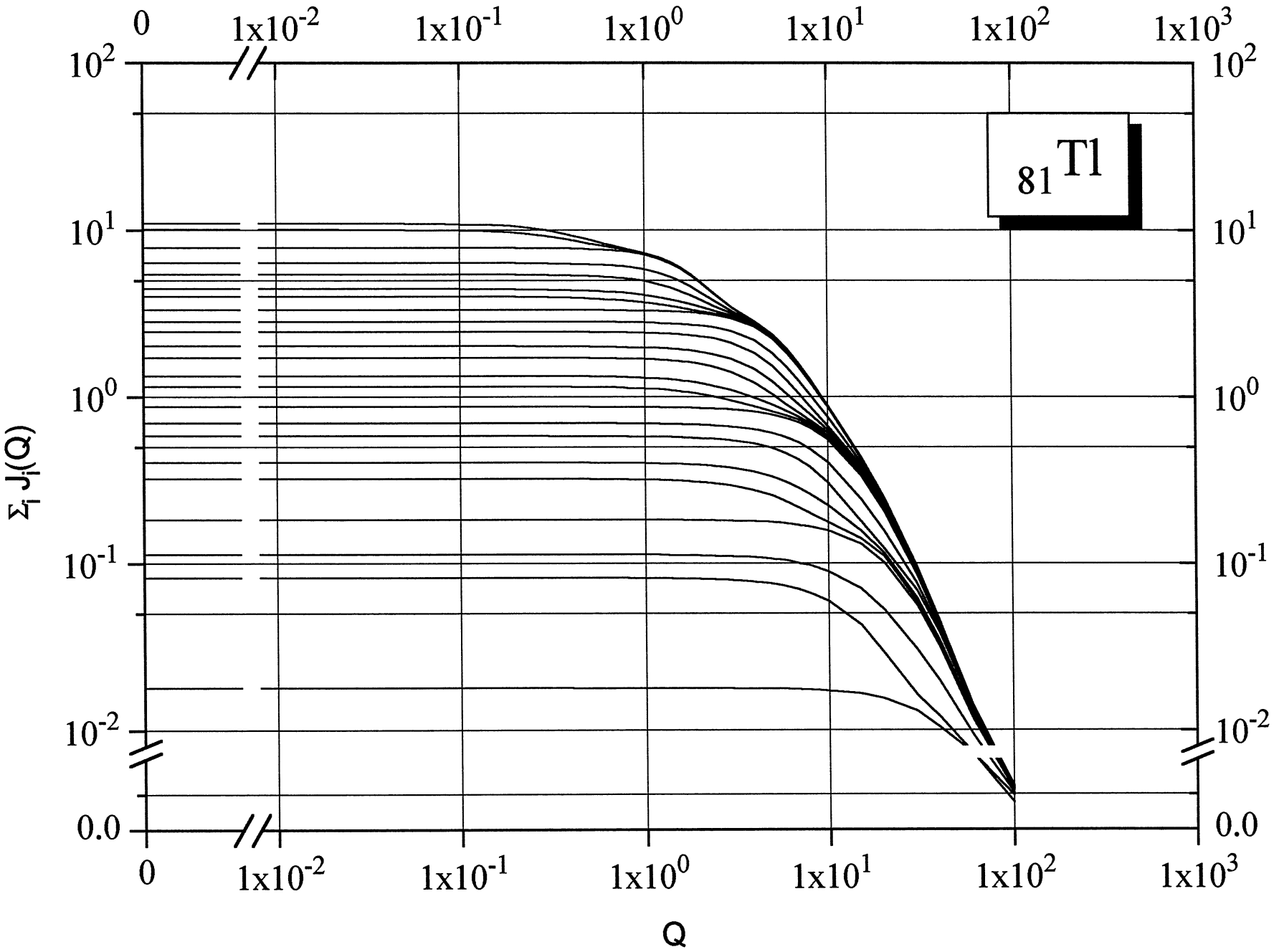
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(1)	Total
0.0E+00	1.80E-02	8.20E-02	1.13E-01	1.83E-01	3.24E-01	4.06E-01	5.84E-01	6.99E-01	8.76E-01	1.16E+00	1.34E+00	1.73E+00	2.03E+00	2.48E+00	2.85E+00	3.36E+00	4.03E+00	4.48E+00	5.47E+00	6.41E+00	7.87E+00	1.02E+01	1.11E+01	1.11E+01
5.0E-02	1.80E-02	8.20E-02	1.13E-01	1.83E-01	3.24E-01	4.06E-01	5.84E-01	6.99E-01	8.76E-01	1.16E+00	1.34E+00	1.73E+00	2.03E+00	2.48E+00	2.85E+00	3.36E+00	4.03E+00	4.48E+00	5.47E+00	6.41E+00	7.87E+00	1.01E+01	1.10E+01	1.10E+01
1.0E-01	1.80E-02	8.20E-02	1.13E-01	1.83E-01	3.24E-01	4.06E-01	5.84E-01	6.99E-01	8.76E-01	1.16E+00	1.34E+00	1.73E+00	2.03E+00	2.48E+00	2.85E+00	3.36E+00	4.03E+00	4.48E+00	5.46E+00	6.40E+00	7.86E+00	1.00E+01	1.09E+01	1.09E+01
1.5E-01	1.80E-02	8.20E-02	1.13E-01	1.83E-01	3.24E-01	4.06E-01	5.84E-01	6.99E-01	8.76E-01	1.16E+00	1.34E+00	1.73E+00	2.03E+00	2.48E+00	2.85E+00	3.36E+00	4.02E+00	4.47E+00	5.46E+00	6.40E+00	7.86E+00	9.88E+00	1.08E+01	1.08E+01
2.0E-01	1.80E-02	8.20E-02	1.13E-01	1.83E-01	3.24E-01	4.06E-01	5.84E-01	6.99E-01	8.76E-01	1.16E+00	1.34E+00	1.73E+00	2.03E+00	2.48E+00	2.85E+00	3.36E+00	4.02E+00	4.46E+00	5.45E+00	6.39E+00	7.85E+00	9.68E+00	1.06E+01	1.06E+01
3.0E-01	1.80E-02	8.20E-02	1.13E-01	1.83E-01	3.23E-01	4.06E-01	5.84E-01	6.98E-01	8.75E-01	1.16E+00	1.34E+00	1.73E+00	2.02E+00	2.47E+00	2.85E+00	3.36E+00	4.00E+00	4.44E+00	5.43E+00	6.37E+00	7.83E+00	9.22E+00	9.99E+00	9.98E+00
4.0E-01	1.80E-02	8.18E-02	1.13E-01	1.83E-01	3.23E-01	4.05E-01	5.83E-01	6.98E-01	8.75E-01	1.16E+00	1.34E+00	1.73E+00	2.02E+00	2.47E+00	2.85E+00	3.35E+00	3.97E+00	4.41E+00	5.39E+00	6.33E+00	7.80E+00	8.75E+00	9.36E+00	9.36E+00
5.0E-01	1.79E-02	8.17E-02	1.13E-01	1.83E-01	3.23E-01	4.05E-01	5.83E-01	6.98E-01	8.75E-01	1.15E+00	1.34E+00	1.73E+00	2.02E+00	2.47E+00	2.84E+00	3.35E+00	3.93E+00	4.38E+00	5.35E+00	6.29E+00	7.74E+00	8.35E+00	8.80E+00	8.80E+00
6.0E-01	1.79E-02	8.17E-02	1.13E-01	1.83E-01	3.22E-01	4.04E-01	5.82E-01	6.97E-01	8.74E-01	1.15E+00	1.33E+00	1.72E+00	2.01E+00	2.46E+00	2.84E+00	3.35E+00	3.89E+00	4.33E+00	5.30E+00	6.23E+00	7.68E+00	8.05E+00	8.34E+00	8.34E+00
7.0E-01	1.79E-02	8.17E-02	1.13E-01	1.83E-01	3.22E-01	4.04E-01	5.82E-01	6.97E-01	8.74E-01	1.15E+00	1.33E+00	1.72E+00	2.01E+00	2.46E+00	2.84E+00	3.34E+00	3.85E+00	4.29E+00	5.23E+00	6.16E+00	7.59E+00	7.81E+00	8.00E+00	8.00E+00
8.0E-01	1.79E-02	8.17E-02	1.13E-01	1.83E-01	3.21E-01	4.04E-01	5.82E-01	6.96E-01	8.73E-01	1.14E+00	1.32E+00	1.71E+00	2.00E+00	2.46E+00	2.83E+00	3.34E+00	3.80E+00	4.23E+00	5.16E+00	6.07E+00	7.48E+00	7.62E+00	7.73E+00	7.73E+00
1.0E+00	1.79E-02	8.15E-02	1.13E-01	1.83E-01	3.20E-01	4.02E-01	5.80E-01	6.95E-01	8.72E-01	1.13E+00	1.31E+00	1.70E+00	1.99E+00	2.44E+00	2.82E+00	3.32E+00	3.71E+00	4.11E+00	4.98E+00	5.85E+00	7.18E+00	7.27E+00	7.31E+00	7.31E+00
1.2E+00	1.79E-02	8.15E-02	1.13E-01	1.83E-01	3.19E-01	4.01E-01	5.79E-01	6.94E-01	8.71E-01	1.12E+00	1.30E+00	1.68E+00	1.98E+00	2.43E+00	2.80E+00	3.31E+00	3.61E+00	3.99E+00	4.76E+00	5.56E+00	6.78E+00	6.87E+00	6.88E+00	6.89E+00
1.4E+00	1.79E-02	8.13E-02	1.12E-01	1.83E-01	3.17E-01	3.99E-01	5.77E-01	6.92E-01	8.69E-01	1.10E+00	1.28E+00	1.66E+00	1.96E+00	2.41E+00	2.78E+00	3.29E+00	3.52E+00	3.85E+00	4.53E+00	5.25E+00	6.33E+00	6.41E+00	6.42E+00	6.42E+00
1.6E+00	1.79E-02	8.11E-02	1.12E-01	1.83E-01	3.15E-01	3.97E-01	5.75E-01	6.89E-01	8.66E-01	1.08E+00	1.26E+00	1.64E+00	1.93E+00	2.38E+00	2.76E+00	3.26E+00	3.43E+00	3.73E+00	4.30E+00	4.92E+00	5.84E+00	5.91E+00	5.92E+00	5.92E+00
1.8E+00	1.79E-02	8.09E-02	1.12E-01	1.82E-01	3.12E-01	3.94E-01	5.72E-01	6.87E-01	8.64E-01	1.07E+00	1.24E+00	1.62E+00	1.91E+00	2.36E+00	2.73E+00	3.24E+00	3.36E+00	3.61E+00	4.08E+00	4.60E+00	5.36E+00	5.42E+00	5.43E+00	5.43E+00
2.0E+00	1.79E-02	8.07E-02	1.12E-01	1.82E-01	3.10E-01	3.92E-01	5.69E-01	6.84E-01	8.61E-01	1.05E+00	1.22E+00	1.59E+00	1.88E+00	2.33E+00	2.70E+00	3.21E+00	3.30E+00	3.51E+00	3.87E+00	4.30E+00	4.92E+00	4.95E+00	4.96E+00	4.96E+00
2.4E+00	1.79E-02	8.03E-02	1.11E-01	1.82E-01	3.04E-01	3.86E-01	5.63E-01	6.76E-01	8.55E-01	1.01E+00	1.17E+00	1.52E+00	1.81E+00	2.26E+00	2.63E+00	3.13E+00	3.19E+00	3.32E+00	3.53E+00	3.80E+00	4.18E+00	4.20E+00	4.20E+00	4.20E+00
3.0E+00	1.79E-02	7.95E-02	1.10E-01	1.81E-01	2.94E-01	3.75E-01	5.51E-01	6.66E-01	8.43E-01	9.54E-01	1.10E+00	1.41E+00	1.69E+00	2.12E+00	2.49E+00	2.98E+00	3.04E+00	3.09E+00	3.18E+00	3.30E+00	3.46E+00	3.47E+00	3.47E+00	3.47E+00
4.0E+00	1.78E-02	7.76E-02	1.09E-01	1.79E-01	2.75E-01	3.55E-01	5.26E-01	6.41E-01	8.17E-01	8.76E-01	9.92E-01	1.22E+00	1.47E+00	1.84E+00	2.19E+00	2.65E+00	2.70E+00	2.72E+00	2.77E+00	2.80E+00	2.83E+00	2.84E+00	2.84E+00	2.84E+00
5.0E+00	1.78E-02	7.54E-02	1.06E-01	1.77E-01	2.55E-01	3.32E-01	4.95E-01	6.09E-01	7.85E-01	8.20E-01	8.99E-01	1.04E+00	1.24E+00	1.54E+00	1.84E+00	2.25E+00	2.28E+00	2.30E+00	2.34E+00	2.36E+00	2.38E+00	2.39E+00	2.39E+00	2.39E+00
6.0E+00	1.77E-02	7.27E-02	1.04E-01	1.74E-01	2.34E-01	3.07E-01	4.59E-01	5.72E-01	7.46E-01	7.75E-01	8.22E-01	8.99E-01	1.05E+00	1.27E+00	1.52E+00	1.85E+00	1.87E+00	1.88E+00	1.92E+00	1.93E+00	1.96E+00	1.96E+00	1.96E+00	1.96E+00
7.0E+00	1.76E-02	6.96E-02	1.00E-01	1.70E-01	2.16E-01	2.83E-01	4.19E-01	5.31E-01	7.02E-01	7.30E-01	7.57E-01	8.01E-01	9.02E-01	1.05E+00	1.25E+00	1.51E+00	1.52E+00	1.53E+00	1.55E+00	1.56E+00	1.58E+00	1.58E+00	1.58E+00	1.58E+00
8.0E+00	1.75E-02	6.63E-02	9.71E-02	1.66E-01	2.00E-01	2.60E-01	3.80E-01	4.86E-01	6.55E-01	6.82E-01	6.99E-01	7.28E-01	7.92E-01	8.81E-01	1.04E+00	1.24E+00	1.25E+00	1.26E+00	1.27E+00	1.29E+00	1.29E+00	1.29E+00	1.29E+00	1.29E+00
1.0E+01	1.72E-02	5.92E-02	8.92E-02	1.57E-01	1.76E-01	2.22E-01	3.06E-01	4.06E-01	5.56E-01	5.75E-01	5.87E-01	6.12E-01	6.36E-01	6.68E-01	7.58E-01	8.75E-01	8.78E-01	8.82E-01	8.86E-01	8.91E-01	8.91E-01	8.91E-01	8.90E-01	8.90E-01
1.5E+01	1.66E-02	4.26E-02	7.06E-02	1.21E-01	1.41E-01	1.57E-01	1.80E-01	2.44E-01	3.40E-01	3.44E-01	3.52E-01	3.65E-01	3.75E-01	3.90E-01	4.08E-01	4.32E-01	4.33E-01	4.34E-01	4.37E-01	4.38E-01	4.39E-01	4.39E-01	4.39E-01	4.40E-01
2.0E+01	1.54E-02	2.88E-02	5.28E-02	1.01E-01	1.10E-01	1.15E-01	1.23E-01	1.57E-01	2.06E-01	2.08E-01	2.11E-01	2.14E-01	2.22E-01	2.33E-01	2.37E-01	2.42E-01	2.42E-01	2.43E-01	2.43E-01	2.44E-01	2.45E-01	2.45E-01	2.46E-01	2.50E-01
3.0E+01	1.30E-02	1.62E-02	3.06E-02	5.66E-02	5.92E-02	6.22E-02	6.90E-02	7.62E-02	8.58E-02	8.67E-02	8.74E-02	8.90E-02	9.11E-02	9.39E-02	9.41E-02	9.44E-02	9.46E-02	9.47E-02	9.50E-02	9.52E-02	9.55E-02	9.55E-02	9.55E-02	9.60E-02
4.0E+01	1.04E-02	1.20E-02	1.96E-02	3.16E-02	3.21E-02	3.43E-02	3.82E-02	3.97E-02	4.17E-02	4.18E-02	4.24E-02	4.34E-02	4.38E-02	4.44E-02	4.44E-02	4.44E-02	4.44E-02	4.45E-02	4.47E-02	4.48E-02	4.48E-02	4.48E-02	4.48E-02	4.50E-02
6.0E+01	6.20E-03	7.60E-03	9.54E-03	1.19E-02	1.22E-02	1.28E-02	1.35E-02	1.36E-02	1.38E-02	1.39E-02	1.40E-02	1.42E-02	1.42E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.43E-02	1.44E-02	1.44E-02	1.44E-02	1.44E-02	1.44E-02	1.40E-02
1.0E+02	1.96E-03	2.44E-03	2.63E-03	2.78E-03	2.90E-03	2.95E-03	3.00E-03	3.00E-03	3.00E-03	3.03E-03	3.04E-03	3.06E-03	3.06E-03	3.06E-03	3.06E-03	3.06E-03	3.06E-03	3.07E-03	3.07E-03	3.07E-03	3.07E-03	3.07E-03	3.07E-03	3.10E-03

E[keV]: 8.55E+01 1.53E+01 1.47E+01 1.27E+01 3.70E+00 3.42E+00 2.96E+00 2.49E+00 2.39E+00 8.46E-01 7.22E-01 6.09E-01 4.07E-01 3.86E-01 1.23E-01 1.19E-01 1.37E-01 1.00E-01 7.60E-02 1.50E-02 1.20E-02 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																								
0.0E+00	3.21E+00	4.68E+00	5.62E+00	6.60E+00	7.05E+00	7.56E+00	7.93E+00	8.60E+00	9.06E+00	9.35E+00	9.74E+00	9.92E+00	1.02E+01	1.04E+01	1.05E+01	1.07E+01	1.08E+01	1.09E+01	1.10E+01	1.10E+01	1.11E+01	1.11E+01	1.11E+01	
5.0E-02	3.17E+00	4.64E+00	5.58E+00	6.56E+00	7.01E+00	7.52E+00	7.89E+00	8.56E+00	9.01E+00	9.31E+00	9.70E+00	9.88E+00	1.02E+01	1.03E+01	1.05E+01	1.06E+01	1.07E+01	1.09E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	
1.0E-01	3.07E+00	4.53E+00	5.47E+00	6.46E+00	6.91E+00	7.41E+00	7.79E+00	8.46E+00	8.91E+00	9.20E+00	9.59E+00	9.77E+00	1.01E+01	1.02E+01	1.03E+01	1.05E+01	1.06E+01	1.08E+01	1.08E+01	1.09E+01	1.09E+01	1.09E+01	1.09E+01	
1.5E-01	2.92E+00	4.38E+00	5.32E+00	6.31E+00	6.76E+00	7.26E+00	7.64E+00	8.30E+00	8.75E+00	9.05E+00	9.44E+00	9.62E+00	9.90E+00	1.01E+01	1.02E+01	1.04E+01	1.05E+01	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.08E+01	1.08E+01	
2.0E-01	2.70E+00	4.16E+00	5.10E+00	6.09E+00	6.54E+00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10-1
10-2
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81Tl
Σi Ji(Q)
Q

Z=82

Compton profiles for the single orbitals and binding energies

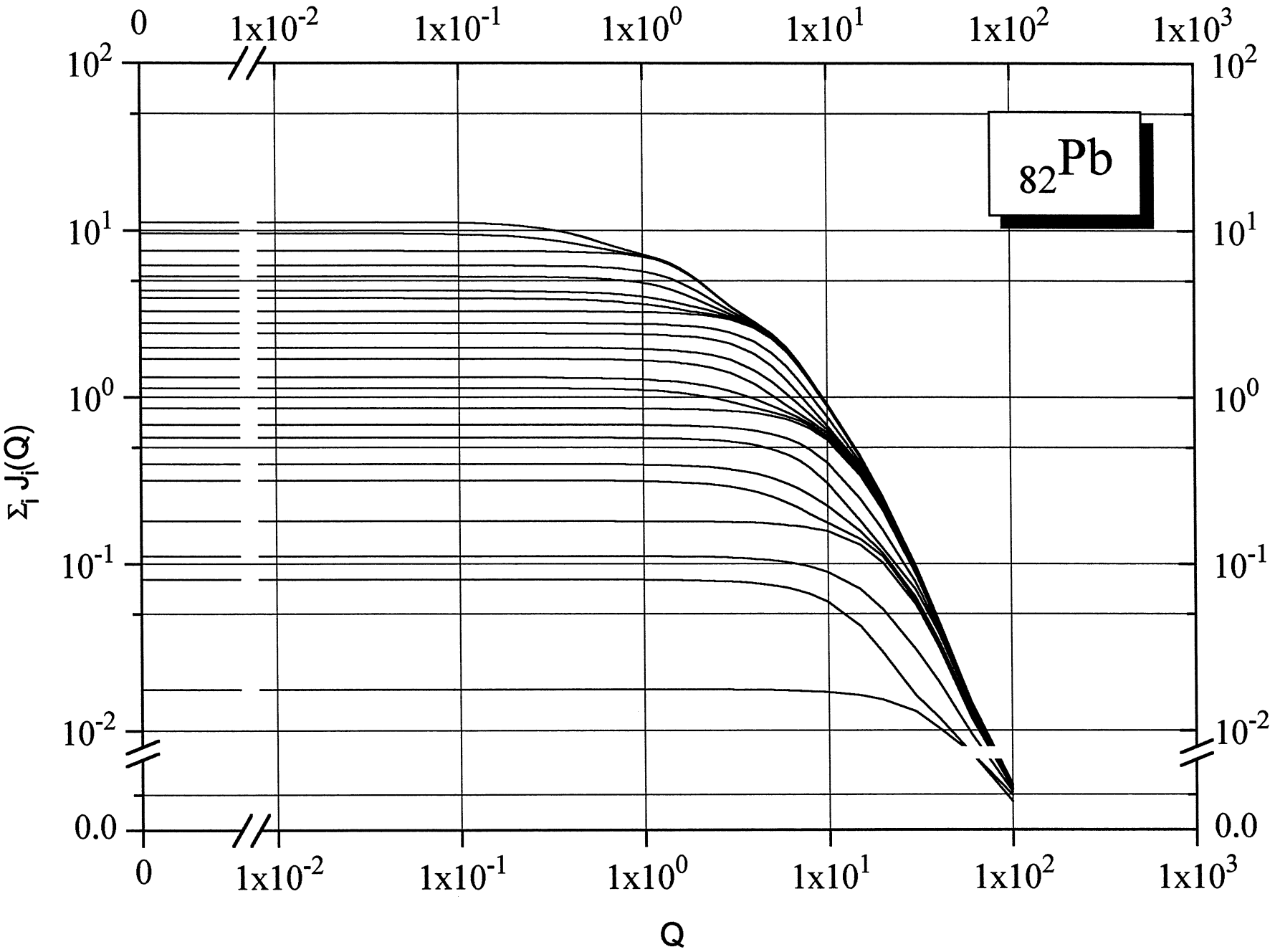
q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	Total
0.0E+00	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.89E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.41E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	3.25E-01	2.15E-01	2.37E-01	2.21E-01	2.27E-01	1.04E+00	8.08E-01	1.13E+01
5.0E-02	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.89E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.41E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	3.25E-01	2.15E-01	2.37E-01	2.21E-01	2.27E-01	1.03E+00	8.08E-01	1.12E+01
1.0E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.89E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.40E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	3.23E-01	2.15E-01	2.37E-01	2.21E-01	2.27E-01	9.92E-01	8.06E-01	1.12E+01
1.5E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.89E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.40E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	3.21E-01	2.15E-01	2.37E-01	2.21E-01	2.27E-01	9.34E-01	8.00E-01	1.10E+01
2.0E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.89E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.40E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	3.18E-01	2.15E-01	2.37E-01	2.21E-01	2.27E-01	8.59E-01	7.85E-01	1.08E+01
3.0E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.88E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.39E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	3.10E-01	2.15E-01	2.36E-01	2.21E-01	2.27E-01	6.79E-01	7.19E-01	1.03E+01
4.0E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.87E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.38E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	2.98E-01	2.14E-01	2.36E-01	2.21E-01	2.27E-01	4.94E-01	6.08E-01	9.70E+00
5.0E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.85E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.37E-01	8.84E-02	9.57E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	2.84E-01	2.14E-01	2.35E-01	2.21E-01	2.27E-01	3.34E-01	4.74E-01	9.07E+00
6.0E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.84E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.35E-01	8.84E-02	9.56E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	2.67E-01	2.12E-01	2.32E-01	2.20E-01	2.26E-01	2.14E-01	3.45E-01	8.52E+00
7.0E-01	8.82E-03	3.14E-02	1.53E-02	1.74E-02	6.82E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.33E-01	8.84E-02	9.56E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	2.49E-01	2.10E-01	2.29E-01	2.19E-01	2.25E-01	1.33E-01	2.37E-01	8.07E+00
8.0E-01	8.82E-03	3.13E-02	1.53E-02	1.74E-02	6.79E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.31E-01	8.83E-02	9.55E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	2.30E-01	2.07E-01	2.25E-01	2.16E-01	2.22E-01	8.48E-02	1.56E-01	7.72E+00
1.0E+00	8.82E-03	3.13E-02	1.53E-02	1.74E-02	6.74E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.26E-01	8.82E-02	9.53E-02	7.18E-02	7.35E-02	6.06E-02	6.14E-02	1.91E-01	1.98E-01	2.11E-01	2.08E-01	2.13E-01	4.85E-02	6.23E-02	7.21E+00
1.2E+00	8.82E-03	3.12E-02	1.53E-02	1.74E-02	6.67E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.21E-01	8.79E-02	9.49E-02	7.17E-02	7.35E-02	6.06E-02	6.14E-02	1.52E-01	1.85E-01	1.93E-01	1.96E-01	1.99E-01	4.42E-02	2.54E-02	6.80E+00
1.4E+00	8.82E-03	3.12E-02	1.53E-02	1.74E-02	6.59E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.14E-01	8.75E-02	9.43E-02	7.17E-02	7.35E-02	6.06E-02	6.14E-02	1.17E-01	1.66E-01	1.70E-01	1.78E-01	1.80E-01	4.34E-02	1.42E-02	6.38E+00
1.6E+00	8.81E-03	3.11E-02	1.53E-02	1.74E-02	6.50E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.07E-01	8.69E-02	9.34E-02	7.17E-02	7.34E-02	6.06E-02	6.14E-02	8.86E-02	1.48E-01	1.45E-01	1.58E-01	1.58E-01	3.89E-02	1.19E-02	5.93E+00
1.8E+00	8.81E-03	3.10E-02	1.53E-02	1.74E-02	6.40E-02	4.03E-02	4.38E-02	2.83E-02	2.90E-02	1.00E-01	8.60E-02	9.21E-02	7.16E-02	7.33E-02	6.06E-02	6.14E-02	6.62E-02	1.27E-01	1.20E-01	1.36E-01	1.34E-01	3.15E-02	1.18E-02	5.47E+00
2.0E+00	8.81E-03	3.09E-02	1.53E-02	1.74E-02	6.28E-02	4.03E-02	4.37E-02	2.83E-02	2.90E-02	9.25E-02	8.49E-02	9.05E-02	7.14E-02	7.31E-02	6.05E-02	6.13E-02	5.01E-02	1.06E-01	9.56E-02	1.14E-01	1.11E-01	2.36E-02	1.15E-02	5.03E+00
2.4E+00	8.80E-03	3.07E-02	1.53E-02	1.74E-02	6.03E-02	4.02E-02	4.36E-02	2.83E-02	2.90E-02	7.73E-02	8.18E-02	8.62E-02	7.09E-02	7.24E-02	6.03E-02	6.11E-02	3.29E-02	6.88E-02	5.65E-02	7.49E-02	7.11E-02	1.13E-02	9.04E-03	4.27E+00
3.0E+00	8.79E-03	3.03E-02	1.53E-02	1.74E-02	5.60E-02	4.00E-02	4.33E-02	2.83E-02	2.90E-02	5.62E-02	7.48E-02	7.69E-02	6.89E-02	7.02E-02	5.95E-02	6.02E-02	2.76E-02	3.16E-02	2.39E-02	3.50E-02	3.18E-02	4.12E-03	4.45E-03	3.50E+00
4.0E+00	8.77E-03	2.94E-02	1.53E-02	1.74E-02	4.77E-02	3.92E-02	4.22E-02	2.82E-02	2.90E-02	3.06E-02	5.84E-02	5.64E-02	6.21E-02	6.27E-02	5.61E-02	5.66E-02	2.48E-02	1.24E-02	1.22E-02	8.75E-03	7.78E-03	3.25E-03	1.09E-03	2.84E+00
5.0E+00	8.74E-03	2.84E-02	1.52E-02	1.73E-02	3.90E-02	3.79E-02	4.03E-02	2.81E-02	2.89E-02	1.81E-02	4.01E-02	3.58E-02	5.11E-02	5.08E-02	5.01E-02	5.02E-02	1.48E-02	1.14E-02	1.16E-02	4.51E-03	4.46E-03	2.27E-03	7.57E-04	2.40E+00
6.0E+00	8.71E-03	2.71E-02	1.52E-02	1.73E-02	3.06E-02	3.59E-02	3.76E-02	2.79E-02	2.86E-02	1.44E-02	2.46E-02	2.04E-02	3.83E-02	3.73E-02	4.24E-02	4.23E-02	6.73E-03	9.73E-03	8.54E-03	4.35E-03	4.34E-03	1.05E-03	6.97E-04	1.98E+00
7.0E+00	8.66E-03	2.57E-02	1.52E-02	1.72E-02	2.33E-02	3.33E-02	3.41E-02	2.75E-02	2.81E-02	1.40E-02	1.43E-02	1.15E-02	2.63E-02	2.51E-02	3.43E-02	3.40E-02	3.55E-03	6.44E-03	4.85E-03	3.83E-03	3.69E-03	4.76E-04	4.89E-04	1.61E+00
8.0E+00	8.62E-03	2.42E-02	1.51E-02	1.71E-02	1.72E-02	3.01E-02	3.00E-02	2.68E-02	2.74E-02	1.36E-02	8.73E-03	7.60E-03	1.69E-02	1.58E-02	2.69E-02	2.65E-02	2.98E-03	3.60E-03	2.47E-03	2.85E-03	2.64E-03	3.42E-04	2.79E-04	1.31E+00
1.0E+01	8.50E-03	2.10E-02	1.50E-02	1.70E-02	9.50E-03	2.30E-02	2.10E-02	2.50E-02	2.50E-02	9.90E-03	5.80E-03	6.40E-03	6.30E-03	5.80E-03	1.50E-02	1.50E-02	2.70E-03	1.20E-03	1.10E-03	1.10E-03	1.00E-03	3.10E-04	8.80E-05	9.10E-01
1.5E+01	8.10E-03	1.30E-02	1.40E-02	1.50E-02	5.30E-03	8.00E-03	6.20E-03	1.60E-02	1.60E-02	1.90E-03	4.20E-03	3.50E-03	2.40E-03	2.50E-03	3.30E-03	3.20E-03	5.00E-04	8.50E-04	7.20E-04	2.60E-04	2.60E-04	6.00E-05	5.70E-05	4.50E-01
2.0E+01	7.60E-03	6.90E-03	1.20E-02	1.20E-02	4.70E-03	2.40E-03	2.10E-03	8.80E-03	8.30E-03	1.30E-03	1.30E-03	8.60E-04	2.00E-03	2.00E-03	7.20E-04	6.70E-04	2.70E-04	2.80E-04	1.80E-04	2.30E-04	2.20E-04	3.00E-05	1.90E-05	2.50E-01
3.0E+01	6.50E-03	1.60E-03	7.30E-03	6.70E-03	1.40E-03	1.50E-03	1.70E-03	1.90E-03	1.70E-03	5.00E-04	3.30E-04	4.00E-04	5.60E-04	5.00E-04	4.50E-05	4.00E-05	1.10E-04	5.80E-05	6.90E-05	6.70E-05	5.90E-05	1.20E-05	3.90E-06	9.80E-02
4.0E+01	5.20E-03	7.90E-04	3.90E-03	3.10E-03	2.70E-04	1.10E-03	1.00E-03	4.20E-04	3.50E-04	8.60E-05	2.70E-04	2.60E-04	1.20E-04	1.00E-04	4.30E-06	3.70E-06	1.90E-05	5.00E-05	4.60E-05	1.50E-05	1.20E-05	2.10E-06	3.30E-06	4.60E-02
6.0E+01	3.10E-03	7.00E-04	1.00E-03	6.10E-04	1.60E-04	3.20E-04	2.10E-04	2.90E-05	2.20E-05	4.10E-05	8.30E-05	5.50E-05	8.60E-06	6.30E-06	1.00E-07	8.10E-08	8.30E-06	1.50E-05	9.70E-06	1.00E-06	7.40E-07	9.30E-07	1.00E-06	1.50E-02
1.0E+02	1.00E-03	2.40E-04	1.10E-04	3.80E-05	6.10E-05	1.10E-05	1.20E-05	6.40E-07	3.60E-07	1.60E-05	8.00E-06	3.20E-06	1.80E-07	1.00E-07	6.80E-10	4.40E-10	3.20E-06	1.50E-06	5.50E-07	2.10E-08	1.20E-08	3.60E-07	9.80E-08	3.20E-03
E[keV]:	8.81E+01	1.59E+01	1.52E+01	1.30E+01	3.85E+00	3.55E+00	3.07E+00	2.59E+00	2.48E+00	8.94E-01	7.64E-01	6.45E-01	4.34E-01	4.12E-01	1.41E-01	1.36E-01	1.48E-01	1.05E-01	8.60E-02	2.00E-02	1.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	Total
0.0E+00	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.99E-01	5.74E-01	6.87E-01	8.61E-01	1.14E+00	1.32E+00	1.70E+00	1.99E+00	2.43E+00	2.79E+00	3.29E+00	3.94E+00	4.37E+00	5.31E+00	6.20E+00	7.56E+00	9.64E+00	1.13E+01	1.13E+01
5.0E-02	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.99E-01	5.74E-01	6.87E-01	8.61E-01	1.14E+00	1.32E+00	1.70E+00	1.99E+00	2.43E+00	2.79E+00	3.29E+00	3.94E+00	4.37E+00	5.31E+00	6.20E+00	7.56E+00	9.62E+00	1.12E+01	1.12E+01
1.0E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.99E-01	5.74E-01	6.87E-01	8.61E-01	1.14E+00	1.32E+00	1.70E+00	1.99E+00	2.43E+00	2.79E+00	3.28E+00	3.93E+00	4.36E+00	5.31E+00	6.19E+00	7.55E+00	9.54E+00	1.12E+01	1.12E+01
1.5E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.99E-01	5.74E-01	6.87E-01	8.61E-01	1.14E+00	1.32E+00	1.70E+00	1.99E+00	2.43E+00	2.79E+00	3.28E+00	3.93E+00	4.36E+00	5.30E+00	6.19E+00	7.55E+00	9.42E+00	1.10E+01	1.10E+01
2.0E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.99E-01	5.74E-01	6.87E-01	8.61E-01	1.14E+00	1.32E+00	1.70E+00	1.99E+00	2.43E+00	2.79E+00	3.28E+00	3.92E+00	4.35E+00	5.30E+00	6.18E+00	7.54E+00	9.26E+00	1.08E+01	1.08E+01
3.0E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.99E-01	5.74E-01	6.87E-01	8.61E-01	1.14E+00	1.32E+00	1.70E+00	1.99E+00	2.43E+00	2.79E+00	3.28E+00	3.90E+00	4.33E+00	5.28E+00	6.16E+00	7.52E+00	8.88E+00	1.03E+01	1.03E+01
4.0E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.99E-01	5.74E-01	6.87E-01	8.61E-01	1.14E+00	1.31E+00	1.70E+00	1.98E+00	2.42E+00	2.79E+00	3.28E+00	3.88E+00	4.30E+00	5.25E+00	6.13E+00	7.49E+00	8.48E+00	9.70E+00	9.70E+00
5.0E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.18E-01	3.98E-01	5.73E-01	6.87E-01	8.61E-01	1.13E+00	1.31E+00	1.69E+00	1.98E+00	2.42E+00	2.79E+00	3.28E+00	3.85E+00	4.27E+00	5.21E+00	6.10E+00	7.46E+00	8.13E+00	9.08E+00	9.07E+00
6.0E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.17E-01	3.98E-01	5.73E-01	6.86E-01	8.60E-01	1.13E+00	1.31E+00	1.69E+00	1.98E+00	2.42E+00	2.78E+00	3.27E+00	3.81E+00	4.23E+00	5.16E+00	6.04E+00	7.39E+00	7.82E+00	8.51E+00	8.52E+00
7.0E-01	1.76E-02	8.04E-02	1.11E-01	1.81E-01	3.17E-01	3.98E-01	5.73E-01	6.86E-01	8.60E-01	1.13E+00	1.30E+00	1.69E+00	1.97E+00	2.41E+00	2.78E+00	3.27E+00	3.77E+00	4.19E+00	5.10E+00	5.98E+00	7.33E+00	7.59E+00	8.07E+00	8.07E+00
8.0E-01	1.76E-02	8.02E-02	1.11E-01	1.80E-01	3.16E-01	3.97E-01	5.72E-01	6.85E-01	8.59E-01	1.12E+00	1.30E+00	1.68E+00	1.97E+00	2.41E+00	2.77E+00	3.26E+00	3.72E+00	4.14E+00	5.04E+00	5.90E+00	7.23E+00	7.40E+00	7.71E+00	7.72E+00
1.0E+00	1.76E-02	8.02E-02	1.11E-01	1.80E-01	3.15E-01	3.96E-01	5.71E-01	6.84E-01	8.58E-01	1.11E+00	1.29E+00	1.67E+00	1.96E+00	2.40E+00	2.76E+00	3.25E+00	3.63E+00	4.03E+00	4.87E+00	5.70E+00	6.98E+00	7.08E+00	7.20E+00	7.21E+00
1.2E+00	1.76E-02	8.00E-02	1.11E-01	1.80E-01	3.14E-01	3.94E-01	5.69E-01	6.83E-01	8.57E-01	1.10E+00	1.27E+00	1.65E+00	1.94E+00	2.38E+00	2.75E+00	3.24E+00	3.54E+00	3.91E+00	4.68E+00	5.47E+00	6.66E+00	6.75E+00	6.80E+00	6.80E+00
1.4E+00	1.76E-02	8.00E-02	1.11E-01	1.80E-01	3.12E-01	3.93E-01	5.68E-01	6.81E-01	8.55E-01	1.09E+00	1.26E+00	1.64E+00	1.92E+00	2.36E+00	2.73E+00	3.22E+00	3.45E+00	3.78E+00	4.46E+00	5.18E+00	6.26E+00	6.34E+00	6.37E+00	6.38E+00
1.6E+00	1.76E-02	7.98E-02	1.10E-01	1.80E-01	3.10E-01	3.91E-01	5.66E-01	6.79E-01	8.53E-01	1.07E+00	1.24E+00	1.61E+00	1.89E+00	2.34E+00	2.71E+00	3.20E+00	3.37E+00	3.67E+00	4.25E+00	4.88E+00	5.83E+00	5.91E+00	5.93E+00	5.93E+00
1.8E+00	1.76E-02	7.96E-02	1.10E-01	1.80E-01	3.08E-01	3.88E-01	5.64E-01	6.77E-01	8.51E-01	1.05E+00	1.22E+00	1.59E+00	1.88E+00	2.32E+00	2.68E+00	3.17E+00	3.30E+00	3.56E+00	4.04E+00	4.58E+00	5.39E+00	5.45E+00	5.47E+00	5.47E+00
2.0E+00	1.76E-02	7.94E-02	1.10E-01	1.80E-01	3.05E-01	3.86E-01	5.61E-01	6.74E-01	8.48E-01	1.03E+00	1.20E+00	1.56E+00	1.85E+00	2.29E+00	2.65E+00	3.14E+00	3.24E+00	3.45E+00	3.84E+00	4.29E+00	4.96E+00	5.01E+00	5.03E+00	5.03E+00
2.4E+00	1.76E-02	7.90E-02	1.10E-01	1.79E-01	3.00E-01	3.80E-01	5.55E-01	6.68E-01	8.42E-01	9.96E-01	1.16E+00	1.50E+00	1.79E+00	2.22E+00	2.58E+00	3.07E+00	3.14E+00	3.28E+00	3.50E+00	3.80E+00	4.23E+00	4.25E+00	4.27E+00	4.27E+00
3.0E+00	1.76E-02	7.82E-02	1.09E-01	1.78E-01	2.90E-01	3.70E-01	5.44E-01	6.57E-01	8.31E-01	9.43E-01	1.09E+00	1.40E+00	1.68E+00	2.10E+00	2.45E+00	2.94E+00	2.99E+00	3.05E+00	3.15E+00	3.29E+00	3.48E+00	3.49E+00	3.50E+00	3.50E+00
4.0E+00	1.75E-02	7.63E-02	1.07E-01	1.77E-01	2.72E-01	3.50E-01	5.19E-01	6.32E-01	8.06E-01	8.67E-01	9.84E-01	1.21E+00	1.46E+00	1.83E+00	2.17E+00	2.62E+00	2.67E+00	2.70E+00	2.75E+00	2.78E+00	2.83E+00	2.83E+00	2.84E+00	2.84E+00
5.0E+00	1.75E-02	7.43E-02	1.05E-01	1.74E-01	2.52E-01	3.28E-01	4.89E-01	6.01E-01	7.75E-01	8.11E-01	8.91E-01	1.03E+00	1.24E+00	1.54E+00	1.84E+00	2.25E+00	2.28E+00	2.30E+00	2.34E+00	2.36E+00	2.39E+00	2.39E+00	2.40E+00	2.40E+00
6.0E+00	1.74E-02	7.16E-02	1.02E-01	1.71E-01	2.32E-01	3.04E-01	4.55E-01	5.66E-01	7.38E-01	7.67E-01	8.16E-01	8.97E-01	1.05E+00	1.27E+00	1.53E+00	1.87E+00	1.88E+00	1.90E+00	1.93E+00	1.95E+00	1.98E+00	1.98E+00	1.98E+00	1.98E+00
7.0E+00	1.73E-02	6.87E-02	9.91E-02	1.68E-01	2.15E-01	2.81E-01	4.18E-01	5.28E-01	6.96E-01	7.24E-01	7.53E-01	7.99E-01	9.04E-01	1.05E+00	1.26E+00	1.53E+00	1.54E+00	1.55E+00	1.57E+00	1.59E+00	1.61E+00	1.61E+00	1.61E+00	1.61E+00
8.0E+00	1.72E-02	6.56E-02	9.58E-02	1.64E-01	1.99E-01	2.59E-01	3.79E-01	4.86E-01	6.50E-01	6.78E-01	6.95E-01	7.26E-01	7.93E-01	8.88E-01	1.05E+00	1.26E+00	1.27E+00	1.27E+00	1.28E+00	1.30E+00	1.31E+00	1.31E+00	1.31E+00	1.31E+00
1.0E+01	1.70E-02	5.90E-02	8.90E-02	1.57E-01	1.76E-01	2.22E-01	3.06E-01	4.06E-01	5.56E-01	5.76E-01	5.87E-01	6.13E-01	6.38E-01	6.73E-01	7.63E-01	8.83E-01	8.88E-01	8.91E-01	8.93E-01	9.00E-01	9.06E-01	9.06E-01	9.06E-01	9.10E-01
1.5E+01	1.62E-02	4.22E-02	7.02E-02	1.30E-01	1.41E-01	1.57E-01	1.82E-01	2.46E-01	3.45E-01	3.54E-01	3.58E-01	3.68E-01	3.77E-01	3.92E-01	4.12E-01	4.38E-01	4.39E-01	4.40E-01	4.43E-01	4.44E-01	4.46E-01	4.46E-01	4.46E-01	4.50E-01
2.0E+01	1.52E-02	2.90E-02	5.30E-02	1.01E-01	1.10E-01	1.15E-01	1.24E-01	1.59E-01	2.09E-01	2.11E-01	2.14E-01	2.17E-01	2.25E-01	2.37E-01	2.42E-01	2.47E-01	2.47E-01	2.48E-01	2.49E-01	2.50E-01	2.51E-01	2.51E-01	2.51E-01	2.50E-01
3.0E+01	1.30E-02	1.62E-02	3.08E-02	5.76E-02	6.04E-02	6.34E-02	7.02E-02	7.78E-02	8.80E-02	8.90E-02	8.97E-02	9.13E-02	9.35E-02	9.65E-02	9.68E-02	9.71E-02	9.73E-02	9.74E-02	9.77E-02	9.80E-02	9.83E-02	9.83E-02	9.84E-02	9.80E-02
4.0E+01	1.04E-02	1.20E-02	1.98E-02	3.22E-02	3.27E-02	3.49E-02	3.89E-02	4.06E-02	4.27E-02	4.29E-02	4.34E-02	4.45E-02	4.49E-02	4.55E-02	4.56E-02	4.56E-02	4.56E-02	4.57E-02	4.59E-02	4.60E-02	4.60E-02	4.60E-02	4.61E-02	4.60E-02
6.0E+01	6.20E-03	7.60E-03	9.60E-03	1.20E-02	1.24E-02	1.30E-02	1.38E-02	1.40E-02	1.41E-02	1.42E-02	1.43E-02	1.46E-02	1.46E-02	1.46E-02	1.46E-02	1.46E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.50E-02
1.0E+02	2.00E-03	2.48E-03	2.70E-03	2.85E-03	2.97E-03	3.04E-03	3.08E-03	3.09E-03	3.09E-03	3.12E-03	3.14E-03	3.15E-03	3.15E-03	3.15E-03	3.15E-03	3.15E-03	3.16E-03	3.16E-03	3.16E-03	3.16E-03	3.16E-03	3.16E-03	3.16E-03	3.20E-03
E[keV]:	8.81E+01	1.59E+01	1.52E+01	1.30E+01	3.85E+00	3.55E+00	3.07E+00	2.59E+00	2.48E+00	8.94E-01	7.64E-01	6.45E-01	4.34E-01	4.12E-01	1.41E-01	1.36E-01	1.48E-01	1.05E-01	8.60E-02	2.00E-02	1.80E-02	0.00E+00	0.00E+00	

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																								
0.0E+00	3.70E+00	5.06E+00	5.94E+00	6.89E+00	7.32E+00	7.81E+00	8.17E+00	8.82E+00	9.27E+00	9.55E+00	9.94E+00	1.01E+01	1.04E+01	1.06E+01	1.07E+01	1.09E+01	1.09E+01	1.11E+01	1.11E+01	1.12E+01	1.12E+01	1.13E+01	1.13E+01	
5.0E-02	3.69E+00	5.04E+00	5.92E+00	6.87E+00	7.30E+00	7.79E+00	8.15E+00	8.80E+00	9.25E+00	9.53E+00	9.92E+00	1.01E+01	1.04E+01	1.05E+01	1.07E+01	1.08E+01	1.09E+01	1.11E+01	1.11E+01	1.12E+01	1.12E+01	1.12E+01	1.12E+01	
1.0E-01	3.60E+00	4.96E+00	5.84E+00	6.79E+00	7.22E+00	7.71E+00	8.07E+00	8.72E+00	9.16E+00	9.45E+00	9.83E+00	1.00E+01	1.03E+01	1.05E+01	1.06E+01	1.08E+01	1.08E+01	1.10E+01	1.10E+01	1.11E+01	1.11E+01	1.12E+01	1.12E+01	
1.5E-01	3.47E+00	4.83E+00	5.71E+00	6.66E+00	7.09E+00	7.58E+00	7.95E+00	8.59E+00	9.03E+00	9.32E+00	9.70E+00	9.88E+00	1.02E+01	1.03E+01	1.04E+01	1.06E+01	1.07E+01	1.08E+01	1.09E


0
1x10^-2
1x10^-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10^-1
10^-2
0.0
82Pb
Σ_i J_i(Q)
Q

Z=83

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(1)	Total
0.0E+00	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.78E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.38E-01	8.66E-02	9.39E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	3.14E-01	2.07E-01	2.28E-01	2.08E-01	2.14E-01	9.55E-01	7.13E-01	8.32E-01	1.15E+01
5.0E-02	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.78E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.38E-01	8.66E-02	9.39E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	3.13E-01	2.07E-01	2.28E-01	2.08E-01	2.14E-01	9.45E-01	7.13E-01	8.32E-01	1.14E+01
1.0E-01	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.78E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.38E-01	8.66E-02	9.39E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	3.12E-01	2.07E-01	2.28E-01	2.08E-01	2.14E-01	9.16E-01	7.12E-01	8.30E-01	1.14E+01
1.5E-01	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.77E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.37E-01	8.66E-02	9.39E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	3.10E-01	2.07E-01	2.28E-01	2.08E-01	2.14E-01	8.70E-01	7.09E-01	8.23E-01	1.13E+01
2.0E-01	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.77E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.37E-01	8.66E-02	9.39E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	3.07E-01	2.07E-01	2.28E-01	2.08E-01	2.14E-01	8.05E-01	7.00E-01	8.07E-01	1.11E+01
3.0E-01	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.76E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.36E-01	8.66E-02	9.39E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	3.00E-01	2.07E-01	2.28E-01	2.08E-01	2.14E-01	6.61E-01	6.66E-01	7.33E-01	1.06E+01
4.0E-01	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.75E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.35E-01	8.66E-02	9.39E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	2.89E-01	2.07E-01	2.27E-01	2.08E-01	2.14E-01	5.01E-01	5.86E-01	6.12E-01	1.00E+01
5.0E-01	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.74E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.34E-01	8.66E-02	9.38E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	2.76E-01	2.06E-01	2.26E-01	2.08E-01	2.14E-01	3.56E-01	4.87E-01	4.68E-01	9.35E+00
6.0E-01	8.67E-03	3.09E-02	1.50E-02	1.71E-02	6.72E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.33E-01	8.66E-02	9.38E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	2.61E-01	2.05E-01	2.24E-01	2.08E-01	2.14E-01	2.40E-01	3.81E-01	3.33E-01	8.72E+00
7.0E-01	8.67E-03	3.08E-02	1.50E-02	1.71E-02	6.70E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.31E-01	8.65E-02	9.38E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	2.45E-01	2.03E-01	2.22E-01	2.07E-01	2.13E-01	1.56E-01	2.82E-01	2.23E-01	8.18E+00
8.0E-01	8.67E-03	3.08E-02	1.50E-02	1.71E-02	6.68E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.29E-01	8.65E-02	9.37E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	2.27E-01	2.01E-01	2.18E-01	2.05E-01	2.11E-01	1.02E-01	1.99E-01	1.42E-01	7.75E+00
1.0E+00	8.67E-03	3.08E-02	1.50E-02	1.71E-02	6.63E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.24E-01	8.64E-02	9.35E-02	7.03E-02	7.20E-02	5.89E-02	5.97E-02	1.90E-01	1.93E-01	2.06E-01	2.00E-01	2.05E-01	5.44E-02	9.00E-02	5.38E-02	7.14E+00
1.2E+00	8.67E-03	3.07E-02	1.50E-02	1.71E-02	6.56E-02	3.96E-02	4.32E-02	2.78E-02	2.86E-02	1.19E-01	8.61E-02	9.31E-02	7.02E-02	7.20E-02	5.89E-02	5.97E-02	1.53E-01	1.81E-01	1.90E-01	1.90E-01	1.94E-01	4.58E-02	3.89E-02	2.24E-02	6.71E+00
1.4E+00	8.66E-03	3.07E-02	1.50E-02	1.71E-02	6.49E-02	3.96E-02	4.31E-02	2.78E-02	2.86E-02	1.13E-01	8.57E-02	9.26E-02	7.02E-02	7.20E-02	5.89E-02	5.97E-02	1.20E-01	1.66E-01	1.70E-01	1.76E-01	1.78E-01	4.54E-02	1.97E-02	1.43E-02	6.32E+00
1.6E+00	8.66E-03	3.06E-02	1.50E-02	1.71E-02	6.40E-02	3.96E-02	4.31E-02	2.78E-02	2.86E-02	1.06E-01	8.52E-02	9.17E-02	7.02E-02	7.19E-02	5.89E-02	5.96E-02	9.19E-02	1.49E-01	1.47E-01	1.59E-01	1.59E-01	4.25E-02	1.45E-02	1.33E-02	5.92E+00
1.8E+00	8.66E-03	3.05E-02	1.50E-02	1.71E-02	6.30E-02	3.96E-02	4.31E-02	2.78E-02	2.86E-02	9.93E-02	8.44E-02	9.06E-02	7.01E-02	7.18E-02	5.89E-02	5.96E-02	6.95E-02	1.29E-01	1.23E-01	1.39E-01	1.39E-01	3.61E-02	1.38E-02	1.31E-02	5.50E+00
2.0E+00	8.66E-03	3.04E-02	1.50E-02	1.71E-02	6.20E-02	3.96E-02	4.31E-02	2.78E-02	2.86E-02	9.21E-02	8.34E-02	8.91E-02	6.99E-02	7.16E-02	5.88E-02	5.96E-02	5.28E-02	1.09E-01	9.97E-02	1.20E-01	1.17E-01	2.82E-02	1.37E-02	1.23E-02	5.08E+00
2.4E+00	8.65E-03	3.02E-02	1.50E-02	1.71E-02	5.96E-02	3.95E-02	4.29E-02	2.78E-02	2.86E-02	7.75E-02	8.05E-02	8.51E-02	6.94E-02	7.10E-02	5.86E-02	5.94E-02	3.41E-02	7.29E-02	6.09E-02	8.19E-02	7.83E-02	1.43E-02	1.16E-02	9.80E-03	4.33E+00
3.0E+00	8.64E-03	2.98E-02	1.50E-02	1.71E-02	5.54E-02	3.93E-02	4.26E-02	2.78E-02	2.86E-02	5.69E-02	7.41E-02	7.64E-02	6.77E-02	6.91E-02	5.80E-02	5.87E-02	2.75E-02	3.47E-02	2.64E-02	4.04E-02	3.70E-02	5.06E-03	6.26E-03	3.77E-03	3.53E+00
4.0E+00	8.62E-03	2.90E-02	1.50E-02	1.71E-02	4.75E-02	3.86E-02	4.17E-02	2.78E-02	2.86E-02	3.14E-02	5.86E-02	5.69E-02	6.15E-02	6.22E-02	5.51E-02	5.56E-02	2.53E-02	1.29E-02	1.25E-02	1.05E-02	9.30E-03	3.59E-03	1.54E-03	9.81E-04	2.83E+00
5.0E+00	8.59E-03	2.80E-02	1.50E-02	1.71E-02	3.90E-02	3.74E-02	3.99E-02	2.77E-02	2.85E-02	1.85E-02	4.10E-02	3.68E-02	5.13E-02	5.11E-02	4.98E-02	5.00E-02	1.59E-02	1.15E-02	1.19E-02	4.87E-03	4.78E-03	2.69E-03	9.37E-04	8.39E-04	2.40E+00
6.0E+00	8.56E-03	2.68E-02	1.49E-02	1.70E-02	3.09E-02	3.55E-02	3.73E-02	2.75E-02	2.82E-02	1.43E-02	2.57E-02	2.13E-02	3.90E-02	3.81E-02	4.27E-02	4.26E-02	7.48E-03	1.02E-02	9.14E-03	4.60E-03	4.61E-03	1.32E-03	8.89E-04	6.96E-04	2.00E+00
7.0E+00	8.52E-03	2.55E-02	1.49E-02	1.70E-02	2.36E-02	3.31E-02	3.40E-02	2.71E-02	2.78E-02	1.38E-02	1.51E-02	1.21E-02	2.73E-02	2.61E-02	3.50E-02	3.48E-02	3.82E-03	7.02E-03	5.39E-03	4.18E-03	4.05E-03	5.87E-04	6.56E-04	4.28E-04	1.64E+00
8.0E+00	8.47E-03	2.40E-02	1.48E-02	1.69E-02	1.77E-02	3.01E-02	3.01E-02	2.65E-02	2.71E-02	1.36E-02	9.18E-03	7.82E-03	1.78E-02	1.67E-02	2.77E-02	2.74E-02	3.02E-03	4.05E-03	2.79E-03	3.21E-03	3.00E-03	3.89E-04	3.89E-04	2.21E-04	1.34E+00
1.0E+01	8.40E-03	2.10E-02	1.50E-02	1.70E-02	9.80E-03	2.30E-02	2.20E-02	2.50E-02	2.50E-02	1.00E-02	5.80E-03	6.30E-03	6.80E-03	6.20E-03	1.60E-02	1.60E-02	2.80E-03	1.30E-03	1.20E-03	1.30E-03	1.20E-03	3.60E-04	1.20E-04	8.20E-05	9.30E-01
1.5E+01	8.00E-03	1.30E-02	1.40E-02	1.50E-02	5.20E-03	8.40E-03	6.50E-03	1.70E-02	1.60E-02	2.00E-03	4.30E-03	3.70E-03	2.40E-03	2.50E-03	3.60E-03	3.50E-03	5.60E-04	8.90E-04	7.80E-04	2.80E-04	2.80E-04	7.50E-05	7.40E-05	5.50E-05	4.60E-01
2.0E+01	7.50E-03	7.10E-03	1.20E-02	1.20E-02	4.70E-03	2.50E-03	2.20E-03	9.00E-03	8.60E-03	1.30E-03	1.40E-03	9.30E-04	2.10E-03	2.00E-03	8.00E-04	7.50E-04	2.70E-04	3.10E-04	2.00E-04	2.50E-04	2.40E-04	3.40E-05	2.60E-05	1.40E-05	2.60E-01
3.0E+01	6.40E-03	1.70E-03	7.40E-03	6.80E-03	1.50E-03	1.50E-03	1.70E-03	2.00E-03	1.80E-03	5.30E-04	3.30E-04	4.00E-04	5.90E-04	5.30E-04	5.10E-05	4.60E-05	1.20E-04	6.00E-05	7.10E-05	7.70E-05	6.80E-05	1.50E-05	4.90E-06	4.90E-06	1.00E-01
4.0E+01	5.20E-03	7.90E-04	4.00E-03	3.20E-03	2.90E-04	1.10E-03	1.00E-03	4.50E-04	3.70E-04	9.50E-05	2.80E-04	2.70E-04	1.40E-04	1.10E-04	5.00E-06	4.30E-06	2.10E-05	5.20E-05	4.90E-05	1.80E-05	1.50E-05	2.60E-06	4.30E-06	3.40E-06	4.70E-02
6.0E+01	3.10E-03	7.00E-04	1.10E-03	6.40E-04	1.60E-04	3.40E-04	2.20E-04	3.20E-05	2.40E-05	4.10E-05	8.90E-05	5.90E-05	9.60E-06	7.10E-06	1.20E-07	9.60E-08	8.40E-06	1.70E-05	1.10E-05	1.30E-06	9.00E-07	1.00E-06	1.40E-06	7.40E-07	1.50E-02
1.0E+02	1.00E-03	2.50E-04	1.10E-04	4.10E-05	6.40E-05	3.40E-05	1.30E-05	7.10E-07	4.00E-07	1.70E-05	8.80E-06	3.50E-06	2.00E-07	1.10E-07	8.10E-10	5.30E-10	3.50E-06	1.70E-06	6.30E-07	2.60E-08	1.40E-08	4.30E-07	1.40E-07	4.30E-08	3.30E-03

E[keV]: 9.05E+01 1.64E+01 1.57E+01 1.34E+01 4.00E+00 3.70E+00 3.18E+00 2.69E+00 2.58E+00 9.39E-01 8.05E-01 6.79E-01 4.64E-01 4.41E-01 1.62E-01 1.57E-01 1.60E-01 1.17E-01 9.30E-02 2.70E-02 2.50E-02 0.00E+00 0.00E+00 0.00E+00

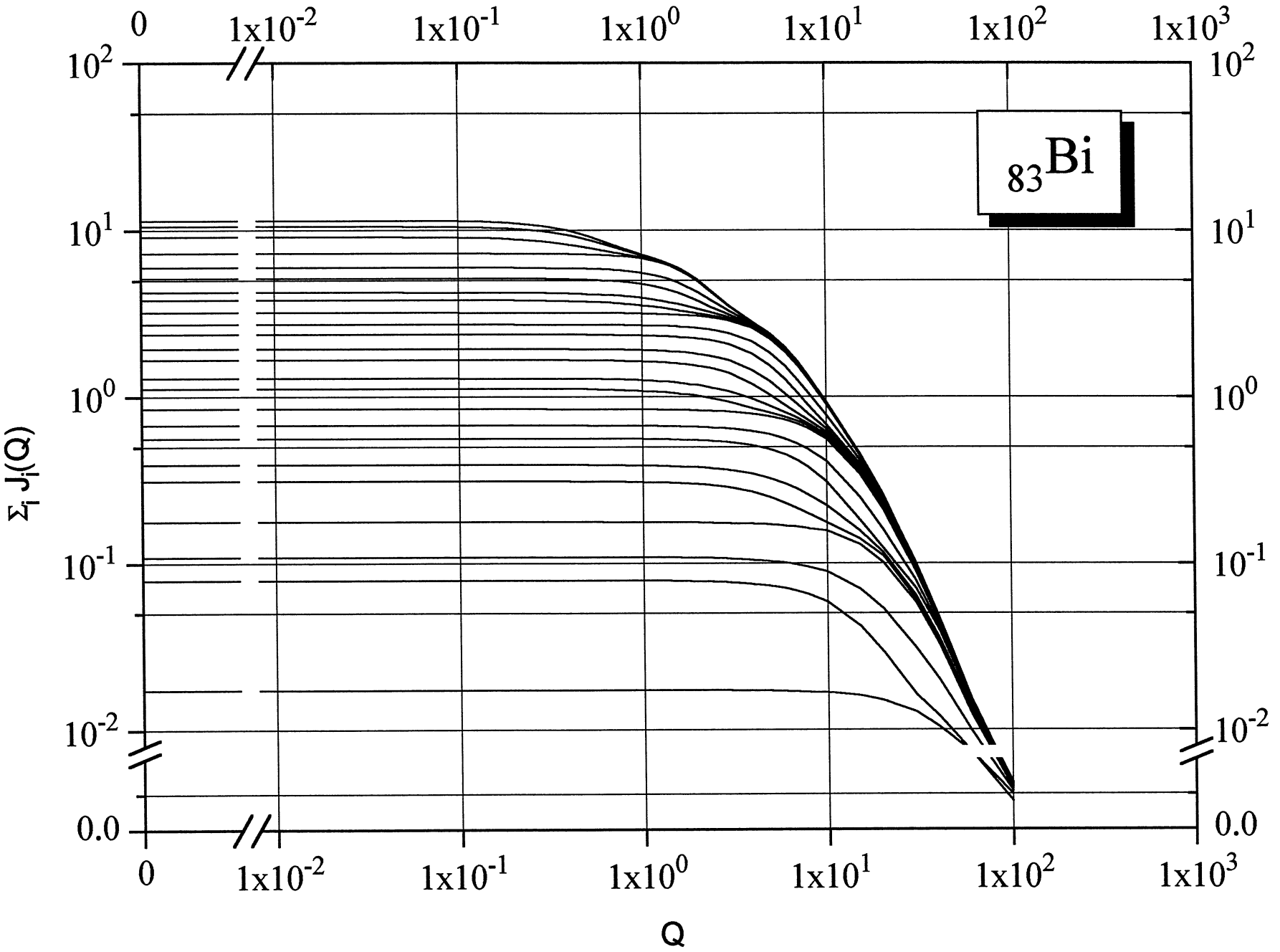
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(1)	Total
0.0E+00	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.13E-01	3.92E-01	5.65E-01	6.76E-01	8.48E-01	1.12E+00	1.30E+00	1.67E+00	1.95E+00	2.39E+00	2.74E+00	3.22E+00	3.84E+00	4.26E+00	5.17E+00	6.00E+00	7.29E+00	9.20E+00	1.06E+01	1.15E+01	1.15E+01
5.0E-02	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.13E-01	3.92E-01	5.65E-01	6.76E-01	8.48E-01	1.12E+00	1.30E+00	1.67E+00	1.95E+00	2.39E+00	2.74E+00	3.22E+00	3.84E+00	4.26E+00	5.17E+00	6.00E+00	7.28E+00	9.17E+00	1.06E+01	1.14E+01	1.14E+01
1.0E-01	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.13E-01	3.92E-01	5.65E-01	6.76E-01	8.48E-01	1.12E+00	1.30E+00	1.67E+00	1.95E+00	2.39E+00	2.74E+00	3.22E+00	3.84E+00	4.25E+00	5.17E+00	6.00E+00	7.28E+00	9.11E+00	1.05E+01	1.14E+01	1.14E+01
1.5E-01	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.13E-01	3.92E-01	5.65E-01	6.76E-01	8.48E-01	1.12E+00	1.29E+00	1.67E+00	1.95E+00	2.38E+00	2.74E+00	3.21E+00	3.83E+00	4.25E+00	5.16E+00	5.99E+00	7.28E+00	9.02E+00	1.04E+01	1.13E+01	1.13E+01
2.0E-01	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.13E-01	3.92E-01	5.65E-01	6.76E-01	8.48E-01	1.12E+00	1.29E+00	1.67E+00	1.95E+00	2.38E+00	2.74E+00	3.21E+00	3.83E+00	4.24E+00	5.15E+00	5.99E+00	7.27E+00	8.89E+00	1.03E+01	1.11E+01	1.11E+01
3.0E-01	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.13E-01	3.92E-01	5.65E-01	6.76E-01	8.47E-01	1.12E+00	1.29E+00	1.67E+00	1.95E+00	2.38E+00	2.73E+00	3.21E+00	3.81E+00	4.23E+00	5.14E+00	5.97E+00	7.25E+00	8.58E+00	9.90E+00	1.06E+01	1.06E+01
4.0E-01	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.13E-01	3.92E-01	5.65E-01	6.76E-01	8.47E-01	1.12E+00	1.29E+00	1.67E+00	1.95E+00	2.38E+00	2.73E+00	3.21E+00	3.79E+00	4.20E+00	5.11E+00	5.94E+00	7.23E+00	8.23E+00	9.40E+00	1.00E+01	1.00E+01
5.0E-01	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.12E-01	3.92E-01	5.64E-01	6.76E-01	8.47E-01	1.12E+00	1.29E+00	1.66E+00	1.94E+00	2.38E+00	2.73E+00	3.21E+00	3.76E+00	4.17E+00	5.08E+00	5.91E+00	7.19E+00	7.90E+00	8.88E+00	9.35E+00	9.35E+00
6.0E-01	1.73E-02	7.91E-02	1.09E-01	1.78E-01	3.12E-01	3.91E-01	5.64E-01	6.75E-01	8.47E-01	1.11E+00	1.29E+00	1.66E+00	1.94E+00	2.37E+00	2.73E+00	3.21E+00	3.73E+00	4.14E+00	5.03E+00	5.87E+00	7.15E+00	7.63E+00	8.39E+00	8.72E+00	8.72E+00
7.0E-01	1.73E-02	7.89E-02	1.09E-01	1.77E-01	3.11E-01	3.91E-01	5.63E-01	6.75E-01	8.46E-01	1.11E+00	1.28E+00	1.66E+00	1.94E+00	2.37E+00	2.72E+00	3.20E+00	3.69E+00	4.10E+00	4.98E+00	5.81E+00	7.09E+00	7.40E+00	7.97E+00	8.19E+00	8.18E+00
8.0E-01	1.73E-02	7.89E-02	1.09E-01	1.77E-01	3.11E-01	3.90E-01	5.63E-01	6.74E-01	8.46E-01	1.10E+00	1.28E+00	1.65E+00	1.93E+00	2.36E+00	2.72E+00	3.20E+00	3.65E+00	4.05E+00	4.92E+00	5.74E+00	7.01E+00	7.21E+00	7.61E+00	7.75E+00	7.75E+00
1.0E+00	1.73E-02	7.89E-02	1.09E-01	1.77E-01	3.10E-01	3.89E-01	5.62E-01	6.73E-01	8.45E-01	1.09E+00	1.27E+00	1.64E+00	1.92E+00	2.35E+00	2.71E+00	3.18E+00	3.56E+00	3.95E+00	4.77E+00	5.57E+00	6.80E+00	6.91E+00	7.09E+00	7.15E+00	7.14E+00
1.2E+00	1.73E-02	7.87E-02	1.09E-01	1.77E-01	3.08E-01	3.88E-01	5.60E-01	6.72E-01	8.43E-01	1.08E+00	1.25E+00	1.63E+00	1.91E+00	2.34E+00	2.69E+00	3.17E+00	3.48E+00	3.84E+00	4.60E+00	5.36E+00	6.52E+00	6.61E+00	6.69E+00	6.71E+00	6.71E+00
1.4E+00	1.73E-02	7.87E-02	1.09E-01	1.77E-01	3.07E-01	3.86E-01	5.59E-01	6.70E-01	8.41E-01	1.07E+00	1.24E+00	1.61E+00	1.89E+00	2.32E+00	2.68E+00	3.15E+00	3.39E+00	3.72E+00	4.40E+00	5.11E+00	6.18E+00	6.27E+00	6.31E+00	6.32E+00	6.32E+00
1.6E+00	1.73E-02	7.85E-02	1.09E-01	1.77E-01	3.05E-01	3.84E-01	5.57E-01	6.68E-01	8.39E-01	1.05E+00	1.22E+00	1.59E+00	1.87E+00	2.30E+00	2.65E+00	3.13E+00	3.31E+00	3.61E+00	4.25E+00	4.94E+00	5.91E+00	5.98E+00	5.90E+00	5.92E+00	5.92E+00
1.8E+00	1.73E-02	7.83E-02	1.08E-01	1.77E-01	3.03E-01	3.82E-01	5.54E-01	6.66E-01	8.37E-01	1.04E+00	1.20E+00	1.57E+00	1.85E+00	2.28E+00	2.63E+00	3.11E+00	3.25E+00	3.51E+00	4.00E+00	4.55E+00	5.39E+00	5.46E+00	5.49E+00	5.50E+00	5.50E+00
2.0E+00	1.73E-02	7.81E-02	1.08E-01	1.77E-01	3.01E-01	3.80E-01	5.52E-01	6.63E-01	8.35E-01	1.02E+00	1.19E+00	1.54E+00	1.82E+00	2.25E+00	2.60E+00	3.08E+00	3.19E+00	3.40E+00	3.80E+00	4.28E+00	4.99E+00	5.04E+00	5.07E+00	5.08E+00	5.08E+00
2.4E+00	1.73E-02	7.77E-02	1.08E-01	1.77E-01	2.95E-01	3.74E-01	5.46E-01	6.57E-01	8.29E-01	9.84E-01	1.14E+00	1.49E+00	1.76E+00	2.19E+00	2.54E+00	3.02E+00	3.08E+00	3.23E+00	3.47E+00	3.80E+00	4.27E+00	4.30E+00	4.32E+00	4.33E+00	4.33E+00
3.0E+00	1.73E-02	7.69E-02	1.07E-01	1.75E-01	2.86E-01	3.65E-01	5.35E-01	6.46E-01	8.18E-01	9.32E-01	1.08E+00	1.39E+00	1.66E+00	2.07E+00	2.42E+00	2.89E+00	2.94E+00	3.01E+00	3.12E+00	3.28E+00	3.50E+00	3.51E+00	3.52E+00	3.53E+00	3.53E+00
4.0E+00	1.72E-02	7.52E-02	1.05E-01	1.74E-01	2.69E-01	3.46E-01	5.13E-01	6.24E-01	7.95E-01	8.58E-01	9.75E-01	1.20E+00	1.45E+00	1.82E+00	2.15E+00	2.60E+00	2.65E+00	2.67E+00	2.72E+00	2.77E+00	2.82E+00	2.83E+00	2.83E+00	2.83E+00	2.83E+00
5.0E+00	1.72E-02	7.32E-02	1.03E-01	1.72E-01	2.50E-01	3.24E-01	4.84E-01	5.95E-01	7.66E-01	8.03E-01	8.85E-01	1.03E+00	1.24E+00	1.54E+00	1.84E+00	2.24E+00	2.27E+00	2.30E+00	2.34E+00	2.36E+00	2.39E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00
6.0E+00	1.71E-02	7.07E-02	1.01E-01	1.69E-01	2.30E-01	3.01E-01	4.51E-01	5.61E-01	7.30E-01	7.58E-01	8.10E-01	8.95E-01	1.05E+00	1.28E+00	1.54E+00	1.88E+00	1.89E+00	1.91E+00	1.95E+00	1.97E+00	1.99E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00
7.0E+00	1.70E-02	6.80E-02	9.78E-02	1.66E-01	2.13E-01	2.79E-01	4.15E-01	5.24E-01	6.90E-01	7.18E-01	7.48E-01	7.97E-01	9.06E-01	1.06E+00	1.27E+00	1.55E+00	1.56E+00	1.57E+00	1.59E+00	1.61E+00	1.64E+00	1.64E+00	1.64E+00	1.64E+00	1.64E+00
8.0E+00	1.69E-02	6.49E-02	9.45E-02	1.62E-01	1.98E-01	2.58E-01	3.78E-01	4.84E-01	6.47E-01	6.74E-01	6.92E-01	7.24E-01	7.95E-01	8.95E-01	1.06E+00	1.28E+00	1.29E+00	1.29E+00	1.31E+00	1.32E+00	1.34E+00	1.34E+00	1.34E+00	1.34E+00	1.34E+00
1.0E+01	1.68E-02	5.88E-02	8.88E-02	1.57E-01	1.76E-01	2.22E-01	3.10E-01	4.10E-01	5.60E-01	5.80E-01	5.92E-01	6.17E-01	6.44E-01	6.82E-01	7.78E-01	9.06E-01	9.11E-01	9.14E-01	9.19E-01	9.24E-01	9.31E-01	9.32E-01	9.32E-01	9.32E-01	9.30E-01
1.5E+01	1.60E-02	4.20E-02	7.00E-02	1.30E-01	1.40E-01	1.57E-01	1.83E-01	2.51E-01	3.47E-01	3.51E-01	3.60E-01	3.75E-01	3.84E-01	3.99E-01	4.21E-01	4.49E-01	4.50E-01	4.52E-01	4.55E-01	4.56E-01	4.58E-01	4.58E-01	4.58E-01	4.58E-01	4.60E-01
2.0E+01	1.50E-02	2.92E-02	5.32E-02	1.01E-01	1.11E-01	1.16E-01	1.24E-01	1.60E-01	2.12E-01	2.15E-01	2.17E-01	2.21E-01	2.30E-01	2.42E-01	2.46E-01	2.52E-01	2.53E-01	2.53E-01	2.54E-01	2.55E-01	2.57E-01	2.57E-01	2.57E-01	2.57E-01	2.60E-01
3.0E+01	1.28E-02	1.62E-02	3.10E-02	5.82E-02	6.12E-02	6.42E-02	7.10E-02	7.90E-02	8.98E-02	9.09E-02	9.15E-02	9.31E-02	9.55E-02	9.87E-02	9.90E-02	9.93E-02	9.96E-02	9.97E-02	1.00E-01	1.00E-01	1.01E-01	1.01E-01	1.01E-01	1.01E-01	1.00E-01
4.0E+01	1.04E-02	1.20E-02	2.00E-02	3.28E-02	3.34E-02	3.56E-02	3.96E-02	4.14E-02	4.36E-02	4.38E-02	4.43E-02	4.54E-02	4.60E-02	4.66E-02	4.67E-02	4.67E-02	4.67E-02	4.68E-02	4.70E-02	4.71E-02	4.72E-02	4.72E-02	4.72E-02	4.72E-02	4.70E-02
6.0E+01	6.20E-03	7.60E-03	9.80E-03	1.24E-02	1.27E-02	1.34E-02	1.42E-02	1.44E-02	1.45E-02	1.46E-02	1.48E-02	1.50E-02	1.51E-02	1.51E-02	1.51E-02	1.51E-02	1.51E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.50E-02
1.0E+02	2.00E-03	2.50E-03	2.72E-03	2.88E-03	3.01E-03	3.08E-03	3.13E-03	3.13E-03	3.14E-03	3.17E-03	3.19E-03	3.20E-03	3.20E-03	3.20E-03	3.20E-03	3.20E-03	3.21E-03	3.21E-03	3.22E-03	3.22E-03	3.22E-03	3.22E-03	3.22E-03	3.22E-03	3.30E-03

E[keV]: 9.05E+01 1.64E+01 1.57E+01 1.34E+01 4.00E+00 3.70E+00 3.18E+00 2.69E+00 2.58E+00 9.39E-01 8.05E-01 6.79E-01 4.64E-01 4.41E-01 1.62E-01 1.57E-01 1.60E-01 1.17E-01 9.30E-02 2.70E-02 2.50E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																									
0.0E+00	4.17E+00	5.45E+00	6.28E+00	7.20E+00	7.61E+00	8.09E+00	8.72E+00	9.07E+00	9.50E+00	9.78E+00	1.02E+01	1.03E+01	1.06E+01	1.08E+01	1.09E+01	1.11E+01	1.11E+01	1.13E+01	1.13E+01	1.14E+01	1.14E+01	1.15E+01	1.15E+01		
5.0E-02	4.15E+00	5.43E+00	6.26E+00	7.18E+00	7.59E+00	8.07E+00	8.69E+00	9.05E+00	9.48E+00	9.76E+00	1.01E+01	1.03E+01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83Bi
Σi Ji(Q)
Q

Z=84

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(2)	Total
0.0E+00	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.66E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.35E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	3.03E-01	2.00E-01	2.20E-01	1.97E-01	2.03E-01	8.87E-01	6.45E-01	7.53E-01	1.16E+01
5.0E-02	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.66E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.35E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	3.03E-01	2.00E-01	2.20E-01	1.97E-01	2.03E-01	8.78E-01	6.45E-01	7.53E-01	1.16E+01
1.0E-01	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.66E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.35E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	3.02E-01	2.00E-01	2.20E-01	1.97E-01	2.03E-01	8.55E-01	6.45E-01	7.52E-01	1.15E+01
1.5E-01	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.66E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.35E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	3.00E-01	2.00E-01	2.20E-01	1.97E-01	2.03E-01	8.17E-01	6.43E-01	7.47E-01	1.15E+01
2.0E-01	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.66E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.34E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	2.97E-01	2.00E-01	2.20E-01	1.97E-01	2.03E-01	7.67E-01	6.37E-01	7.36E-01	1.13E+01
3.0E-01	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.65E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.34E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	2.90E-01	2.00E-01	2.20E-01	1.97E-01	2.03E-01	6.41E-01	6.11E-01	6.87E-01	1.09E+01
4.0E-01	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.64E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.33E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	2.81E-01	1.99E-01	2.19E-01	1.97E-01	2.03E-01	5.02E-01	5.59E-01	5.98E-01	1.03E+01
5.0E-01	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.63E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.32E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	2.69E-01	1.99E-01	2.18E-01	1.97E-01	2.03E-01	3.71E-01	4.85E-01	4.83E-01	9.64E+00
6.0E-01	8.52E-03	3.04E-02	1.47E-02	1.69E-02	6.61E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.30E-01	8.48E-02	9.21E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	2.55E-01	1.98E-01	2.17E-01	1.97E-01	2.03E-01	2.60E-01	3.98E-01	3.66E-01	8.96E+00
7.0E-01	8.52E-03	3.03E-02	1.47E-02	1.69E-02	6.59E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.29E-01	8.48E-02	9.20E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	2.40E-01	1.96E-01	2.15E-01	1.96E-01	2.02E-01	1.76E-01	3.10E-01	2.61E-01	8.36E+00
8.0E-01	8.52E-03	3.03E-02	1.47E-02	1.69E-02	6.57E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.27E-01	8.47E-02	9.20E-02	6.88E-02	7.06E-02	5.73E-02	5.80E-02	2.24E-01	1.94E-01	2.11E-01	1.95E-01	2.01E-01	1.18E-01	2.32E-01	1.78E-01	7.85E+00
1.0E+00	8.52E-03	3.03E-02	1.47E-02	1.69E-02	6.52E-02	3.90E-02	4.25E-02	2.74E-02	2.82E-02	1.22E-01	8.46E-02	9.18E-02	6.88E-02	7.05E-02	5.73E-02	5.80E-02	1.89E-01	1.88E-01	2.01E-01	1.91E-01	1.96E-01	6.09E-02	1.16E-01	7.47E-02	7.12E+00
1.2E+00	8.52E-03	3.02E-02	1.47E-02	1.69E-02	6.46E-02	3.89E-02	4.25E-02	2.74E-02	2.82E-02	1.17E-01	8.44E-02	9.14E-02	6.88E-02	7.05E-02	5.73E-02	5.80E-02	1.55E-01	1.78E-01	1.87E-01	1.84E-01	1.88E-01	4.73E-02	5.38E-02	3.16E-02	6.64E+00
1.4E+00	8.52E-03	3.02E-02	1.47E-02	1.69E-02	6.39E-02	3.89E-02	4.25E-02	2.74E-02	2.82E-02	1.11E-01	8.40E-02	9.09E-02	6.88E-02	7.05E-02	5.73E-02	5.80E-02	1.23E-01	1.64E-01	1.69E-01	1.73E-01	1.75E-01	4.64E-02	2.66E-02	1.78E-02	6.26E+00
1.6E+00	8.51E-03	3.01E-02	1.47E-02	1.69E-02	6.30E-02	3.89E-02	4.25E-02	2.74E-02	2.82E-02	1.05E-01	8.35E-02	9.01E-02	6.87E-02	7.05E-02	5.73E-02	5.80E-02	9.50E-02	1.48E-01	1.47E-01	1.58E-01	1.59E-01	4.48E-02	1.73E-02	1.50E-02	5.89E+00
1.8E+00	8.51E-03	3.00E-02	1.47E-02	1.69E-02	6.21E-02	3.89E-02	4.25E-02	2.74E-02	2.82E-02	9.85E-02	8.28E-02	8.91E-02	6.86E-02	7.04E-02	5.72E-02	5.80E-02	7.26E-02	1.30E-01	1.25E-01	1.42E-01	1.41E-01	3.97E-02	1.53E-02	1.48E-02	5.51E+00
2.0E+00	8.51E-03	2.99E-02	1.47E-02	1.69E-02	6.11E-02	3.89E-02	4.24E-02	2.74E-02	2.82E-02	9.16E-02	7.19E-02	8.78E-02	6.85E-02	7.02E-02	5.72E-02	5.80E-02	5.55E-02	1.12E-01	1.03E-01	1.24E-01	1.22E-01	3.22E-02	1.52E-02	1.44E-02	5.12E+00
2.4E+00	8.51E-03	2.97E-02	1.47E-02	1.69E-02	5.88E-02	3.88E-02	4.23E-02	2.74E-02	2.82E-02	7.75E-02	7.92E-02	8.40E-02	6.80E-02	6.97E-02	5.71E-02	5.78E-02	3.55E-02	7.67E-02	6.51E-02	8.80E-02	8.46E-02	1.76E-02	1.38E-02	1.11E-02	4.39E+00
3.0E+00	8.50E-03	2.94E-02	1.47E-02	1.69E-02	5.48E-02	3.86E-02	4.20E-02	2.74E-02	2.82E-02	5.76E-02	7.33E-02	7.59E-02	6.65E-02	6.80E-02	5.65E-02	5.72E-02	2.75E-02	3.80E-02	2.91E-02	4.57E-02	4.22E-02	6.17E-03	8.15E-03	5.19E-03	3.57E+00
4.0E+00	8.48E-03	2.86E-02	1.47E-02	1.69E-02	4.72E-02	3.80E-02	4.11E-02	2.74E-02	2.81E-02	3.23E-02	5.87E-02	5.73E-02	6.10E-02	6.17E-02	5.41E-02	5.46E-02	2.57E-02	1.37E-02	1.28E-02	1.25E-02	1.10E-02	3.86E-03	2.09E-03	1.28E-03	2.83E+00
5.0E+00	8.45E-03	2.76E-02	1.47E-02	1.69E-02	3.91E-02	3.69E-02	3.95E-02	2.73E-02	2.80E-02	1.89E-02	4.18E-02	3.77E-02	5.14E-02	5.13E-02	4.94E-02	4.97E-02	1.70E-02	1.15E-02	1.22E-02	5.29E-03	5.12E-03	3.10E-03	1.10E-03	1.00E-03	2.40E+00
6.0E+00	8.42E-03	2.65E-02	1.47E-02	1.68E-02	3.11E-02	3.52E-02	3.70E-02	2.71E-02	2.78E-02	1.43E-02	2.67E-02	2.22E-02	3.97E-02	3.89E-02	4.29E-02	4.29E-02	7.29E-03	1.05E-02	9.71E-03	4.81E-03	4.84E-03	1.61E-03	1.06E-03	8.72E-04	2.02E+00
7.0E+00	8.38E-03	2.52E-02	1.46E-02	1.67E-02	2.40E-02	3.28E-02	3.38E-02	2.67E-02	2.74E-02	1.36E-02	1.60E-02	1.27E-02	2.82E-02	2.71E-02	3.56E-02	3.54E-02	4.13E-03	7.58E-03	5.95E-03	4.49E-03	4.39E-03	7.14E-04	8.23E-04	5.62E-04	1.66E+00
8.0E+00	8.34E-03	2.38E-02	1.46E-02	1.66E-02	1.81E-02	3.00E-02	3.01E-02	2.62E-02	2.68E-02	1.35E-02	9.66E-03	8.08E-03	1.87E-02	1.76E-02	2.85E-02	2.82E-02	3.08E-03	4.52E-03	3.14E-03	3.56E-03	3.35E-03	4.37E-04	5.09E-04	2.99E-04	1.36E+00
1.0E+01	8.20E-03	2.10E-02	1.40E-02	1.60E-02	1.00E-02	2.30E-02	2.20E-02	2.40E-02	2.50E-02	1.00E-02	5.80E-03	6.20E-03	7.30E-03	6.70E-03	1.70E-02	1.70E-02	2.90E-03	1.50E-03	1.20E-03	1.60E-03	1.40E-03	4.00E-04	1.60E-04	1.00E-04	9.40E-01
1.5E+01	7.90E-03	1.30E-02	1.30E-02	1.50E-02	5.10E-03	8.80E-03	6.80E-03	1.70E-02	1.70E-02	2.10E-03	4.40E-03	3.90E-03	2.40E-03	2.50E-03	3.90E-03	3.80E-03	6.30E-04	9.40E-04	8.40E-04	3.00E-04	3.00E-04	9.10E-05	9.00E-05	6.90E-05	4.70E-01
2.0E+01	7.40E-03	7.30E-03	1.20E-02	1.20E-02	4.70E-03	2.70E-03	2.20E-03	9.20E-03	8.80E-03	1.30E-03	1.50E-03	1.00E-03	2.10E-03	2.10E-03	8.90E-04	8.30E-04	2.80E-04	3.50E-04	2.30E-04	2.70E-04	2.60E-04	3.70E-05	3.50E-05	1.90E-05	2.60E-01
3.0E+01	6.40E-03	1.80E-03	7.50E-03	6.90E-03	1.60E-03	1.40E-03	1.70E-03	2.10E-03	1.90E-03	5.70E-04	3.20E-04	4.00E-04	6.30E-04	5.70E-04	5.80E-05	5.30E-05	1.30E-04	6.10E-05	7.30E-05	8.80E-05	7.80E-05	1.80E-05	5.80E-06	5.90E-06	1.00E-01
4.0E+01	5.20E-03	7.90E-04	4.10E-03	3.30E-03	3.10E-04	1.10E-03	1.10E-03	4.80E-04	4.00E-04	1.00E-04	2.80E-04	2.80E-04	1.50E-04	1.20E-04	5.80E-06	5.00E-06	2.40E-05	5.40E-05	5.30E-05	2.40E-05	1.70E-05	3.20E-06	5.20E-06	4.30E-06	4.90E-02
6.0E+01	3.20E-03	6.90E-04	1.10E-03	6.70E-04	1.60E-04	3.50E-04	2.30E-04	3.50E-05	2.60E-05	4.10E-05	9.40E-05	6.30E-05	1.10E-05	7.90E-06	1.40E-07	1.10E-07	8.60E-06	1.80E-05	1.20E-05	1.50E-06	1.10E-06	1.10E-06	1.80E-06	9.70E-07	1.60E-02
1.0E+02	1.10E-03	2.60E-04	1.20E-04	4.40E-05	6.70E-05	3.70E-05	1.40E-05	8.00E-07	4.40E-07	1.80E-05	9.70E-06	3.80E-06	2.30E-07	1.30E-07	9.70E-10	6.30E-10	3.70E-06	1.90E-06	7.10E-07	3.20E-08	1.70E-08	5.00E-07	1.80E-07	5.80E-08	3.50E-03

E[keV]: 9.31E+01 1.69E+01 1.62E+01 1.38E+01 4.15E+00 3.85E+00 3.30E+00 2.80E+00 2.68E+00 9.95E-01 8.51E-01 7.05E-01 5.00E-01 4.73E-01 1.84E-01 1.84E-01 1.77E-01 1.32E-01 1.04E-01 3.10E-02 3.10E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(2)	Total
0.0E+00	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.08E-01	3.86E-01	5.56E-01	6.66E-01	8.35E-01	1.10E+00	1.27E+00	1.64E+00	1.92E+00	2.34E+00	2.69E+00	3.15E+00	3.76E+00	4.16E+00	5.04E+00	5.82E+00	7.04E+00	8.82E+00	1.01E+01	1.16E+01	1.16E+01
5.0E-02	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.08E-01	3.86E-01	5.56E-01	6.66E-01	8.35E-01	1.10E+00	1.27E+00	1.64E+00	1.92E+00	2.34E+00	2.69E+00	3.15E+00	3.76E+00	4.16E+00	5.04E+00	5.82E+00	7.04E+00	8.80E+00	1.01E+01	1.16E+01	1.16E+01
1.0E-01	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.08E-01	3.86E-01	5.56E-01	6.66E-01	8.35E-01	1.10E+00	1.27E+00	1.64E+00	1.92E+00	2.34E+00	2.69E+00	3.15E+00	3.75E+00	4.15E+00	5.03E+00	5.82E+00	7.04E+00	8.75E+00	1.00E+01	1.15E+01	1.15E+01
1.5E-01	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.08E-01	3.86E-01	5.56E-01	6.66E-01	8.35E-01	1.10E+00	1.27E+00	1.64E+00	1.92E+00	2.34E+00	2.69E+00	3.15E+00	3.75E+00	4.15E+00	5.03E+00	5.82E+00	7.04E+00	8.67E+00	9.96E+00	1.14E+01	1.15E+01
2.0E-01	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.08E-01	3.86E-01	5.56E-01	6.66E-01	8.35E-01	1.10E+00	1.27E+00	1.64E+00	1.92E+00	2.34E+00	2.68E+00	3.15E+00	3.74E+00	4.14E+00	5.02E+00	5.81E+00	7.03E+00	8.56E+00	9.84E+00	1.13E+01	1.13E+01
3.0E-01	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.08E-01	3.86E-01	5.56E-01	6.65E-01	8.35E-01	1.10E+00	1.27E+00	1.64E+00	1.92E+00	2.34E+00	2.68E+00	3.15E+00	3.73E+00	4.13E+00	5.01E+00	5.80E+00	7.01E+00	8.30E+00	9.52E+00	1.09E+01	1.09E+01
4.0E-01	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.08E-01	3.86E-01	5.56E-01	6.65E-01	8.34E-01	1.10E+00	1.27E+00	1.64E+00	1.91E+00	2.34E+00	2.68E+00	3.15E+00	3.71E+00	4.11E+00	4.98E+00	5.77E+00	6.99E+00	7.99E+00	9.11E+00	1.03E+01	1.03E+01
5.0E-01	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.07E-01	3.85E-01	5.55E-01	6.65E-01	8.34E-01	1.10E+00	1.27E+00	1.64E+00	1.91E+00	2.34E+00	2.68E+00	3.14E+00	3.68E+00	4.08E+00	4.95E+00	5.74E+00	6.96E+00	7.70E+00	8.67E+00	9.63E+00	9.64E+00
6.0E-01	1.70E-02	7.78E-02	1.07E-01	1.75E-01	3.07E-01	3.85E-01	5.55E-01	6.65E-01	8.34E-01	1.09E+00	1.26E+00	1.63E+00	1.91E+00	2.33E+00	2.67E+00	3.14E+00	3.65E+00	4.04E+00	4.91E+00	5.70E+00	6.92E+00	7.44E+00	8.23E+00	8.97E+00	8.96E+00
7.0E-01	1.70E-02	7.76E-02	1.07E-01	1.75E-01	3.06E-01	3.84E-01	5.54E-01	6.64E-01	8.33E-01	1.09E+00	1.26E+00	1.63E+00	1.90E+00	2.33E+00	2.67E+00	3.14E+00	3.62E+00	4.01E+00	4.87E+00	5.65E+00	6.86E+00	7.22E+00	7.84E+00	8.36E+00	8.36E+00
8.0E-01	1.70E-02	7.76E-02	1.07E-01	1.75E-01	3.06E-01	3.84E-01	5.54E-01	6.64E-01	8.33E-01	1.09E+00	1.26E+00	1.62E+00	1.90E+00	2.32E+00	2.67E+00	3.13E+00	3.58E+00	3.97E+00	4.81E+00	5.59E+00	6.80E+00	7.03E+00	7.50E+00	7.85E+00	7.85E+00
1.0E+00	1.70E-02	7.76E-02	1.07E-01	1.75E-01	3.05E-01	3.83E-01	5.53E-01	6.63E-01	8.32E-01	1.08E+00	1.25E+00	1.61E+00	1.89E+00	2.31E+00	2.65E+00	3.12E+00	3.50E+00	3.87E+00	4.68E+00	5.44E+00	6.62E+00	6.74E+00	6.97E+00	7.12E+00	7.12E+00
1.2E+00	1.70E-02	7.74E-02	1.07E-01	1.74E-01	3.04E-01	3.81E-01	5.51E-01	6.61E-01	8.30E-01	1.06E+00	1.23E+00	1.60E+00	1.87E+00	2.30E+00	2.64E+00	3.10E+00	3.41E+00	3.77E+00	4.52E+00	5.25E+00	6.38E+00	6.48E+00	6.58E+00	6.65E+00	6.64E+00
1.4E+00	1.70E-02	7.74E-02	1.07E-01	1.74E-01	3.02E-01	3.80E-01	5.50E-01	6.60E-01	8.29E-01	1.05E+00	1.22E+00	1.58E+00	1.86E+00	2.28E+00	2.62E+00	3.09E+00	3.33E+00	3.66E+00	4.34E+00	5.03E+00	6.08E+00	6.17E+00	6.23E+00	6.26E+00	6.26E+00
1.6E+00	1.70E-02	7.72E-02	1.07E-01	1.74E-01	3.00E-01	3.78E-01	5.48E-01	6.58E-01	8.27E-01	1.04E+00	1.20E+00	1.56E+00	1.84E+00	2.26E+00	2.61E+00	3.07E+00	3.26E+00	3.56E+00	4.14E+00	4.78E+00	5.73E+00	5.82E+00	5.85E+00	5.88E+00	5.89E+00
1.8E+00	1.70E-02	7.70E-02	1.06E-01	1.74E-01	2.98E-01	3.76E-01	5.46E-01	6.56E-01	8.25E-01	1.02E+00	1.19E+00	1.54E+00	1.82E+00	2.24E+00	2.58E+00	3.05E+00	3.19E+00	3.45E+00	3.95E+00	4.52E+00	5.37E+00	5.45E+00	5.48E+00	5.51E+00	5.51E+00
2.0E+00	1.70E-02	7.68E-02	1.06E-01	1.74E-01	2.96E-01	3.74E-01	5.43E-01	6.53E-01	8.22E-01	1.01E+00	1.15E+00	1.50E+00	1.77E+00	2.20E+00	2.54E+00	3.00E+00	3.11E+00	3.34E+00	3.75E+00	4.25E+00	4.98E+00	5.04E+00	5.07E+00	5.10E+00	5.12E+00
2.4E+00	1.70E-02	7.64E-02	1.06E-01	1.73E-01	2.91E-01	3.69E-01	5.38E-01	6.47E-01	8.17E-01	9.72E-01	1.13E+00	1.47E+00	1.74E+00	2.16E+00	2.50E+00	2.96E+00	3.03E+00	3.19E+00	3.45E+00	3.80E+00	4.31E+00	4.34E+00	4.37E+00	4.39E+00	4.39E+00
3.0E+00	1.70E-02	7.58E-02	1.05E-01	1.73E-01	2.82E-01	3.60E-01	5.28E-01	6.37E-01	8.06E-01	9.22E-01	1.07E+00	1.37E+00	1.64E+00	2.05E+00	2.38E+00	2.84E+00	2.90E+00	2.97E+00	3.09E+00	3.27E+00	3.53E+00	3.54E+00	3.55E+00	3.56E+00	3.57E+00
4.0E+00	1.70E-02	7.42E-02	1.04E-01	1.71E-01	2.66E-01	3.42E-01	5.06E-01	6.16E-01	7.84E-01	8.49E-01	9.66E-01	1.20E+00	1.44E+00	1.81E+00	2.13E+00	2.57E+00	2.62E+00	2.65E+00	2.70E+00	2.75E+00	2.82E+00	2.82E+00	2.83E+00	2.83E+00	2.83E+00
5.0E+00	1.69E-02	7.21E-02	1.01E-01	1.69E-01	2.47E-01	3.21E-01	4.79E-01	5.88E-01	7.56E-01	7.94E-01	8.78E-01	1.03E+00	1.23E+00	1.54E+00	1.84E+00	2.24E+00	2.27E+00	2.29E+00	2.34E+00	2.36E+00	2.39E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00
6.0E+00	1.68E-02	6.98E-02	9.92E-02	1.66E-01	2.29E-01	2.99E-01	4.47E-01	5.55E-01	7.22E-01	7.51E-01	8.04E-01	8.93E-01	1.05E+00	1.29E+00	1.54E+00	1.89E+00	1.90E+00	1.92E+00	1.96E+00	1.98E+00	2.01E+00	2.01E+00	2.01E+00	2.02E+00	2.02E+00
7.0E+00	1.68E-02	6.72E-02	9.64E-02	1.63E-01	2.11E-01	2.77E-01	4.12E-01	5.19E-01	6.83E-01	7.10E-01	7.42E-01	7.93E-01	9.06E-01	1.07E+00	1.28E+00	1.57E+00	1.57E+00	1.59E+00	1.61E+00	1.63E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00
8.0E+00	1.67E-02	6.43E-02	9.35E-02	1.60E-01	1.96E-01	2.56E-01	3.76E-01	4.81E-01	6.42E-01	6.69E-01	6.88E-01	7.21E-01	7.96E-01	9.01E-01	1.07E+00	1.30E+00	1.30E+00	1.31E+00	1.33E+00	1.34E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00	1.36E+00
1.0E+01	1.64E-02	5.84E-02	8.64E-02	1.50E-01	1.70E-01	2.16E-01	3.04E-01	4.00E-01	5.50E-01	5.70E-01	5.82E-01	6.07E-01	6.36E-01	6.76E-01	7.78E-01	9.14E-01	9.20E-01	9.23E-01	9.28E-01	9.34E-01	9.43E-01	9.43E-01	9.44E-01	9.44E-01	9.40E-01
1.5E+01	1.58E-02	4.18E-02	6.78E-02	1.28E-01	1.38E-01	1.56E-01	1.83E-01	2.51E-01	3.53E-01	3.57E-01	3.66E-01	3.81E-01	3.91E-01	4.06E-01	4.29E-01	4.60E-01	4.61E-01	4.63E-01	4.66E-01	4.67E-01	4.69E-01	4.69E-01	4.70E-01	4.70E-01	4.70E-01
2.0E+01	1.48E-02	2.94E-02	5.34E-02	1.01E-01	1.11E-01	1.16E-01	1.25E-01	1.62E-01	2.15E-01	2.17E-01	2.20E-01	2.24E-01	2.33E-01	2.45E-01	2.51E-01	2.57E-01	2.58E-01	2.58E-01	2.59E-01	2.60E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.60E-01
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3.0E+01	1.04E-02	1.20E-02	2.02E-02	3.34E-02	3.40E-02	3.62E-02	4.06E-02	4.25E-02	4.49E-02	4.51E-02	4.57E-02	4.68E-02	4.74E-02	4.81E-02	4.82E-02	4.82E-02	4.82E-02	4.84E-02	4.86E-02	4.86E-02	4.87E-02	4.88E-02	4.88E-02	4.88E-02	4.90E-02
3.5E+01	8.40E-03	9.45E-03	1.20E-02	1.36E-02	1.43E-02	2.23E-02	2.65E-02	2.92E-02	3.26E-02	3.42E-02	3.57E-02	3.74E-02	3.85E-02	4.02E-02	4.10E-02	4.22E-02	4.28E-02	4.31E-02	4.37E-02	4.39E-02	4.39E-02	4.39E-02	4.39E-02	4.39E-02	4.39E-02
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4.5E+01	5.42E-03	5.71E-03	8.08E-03	8.72E-03	9.12E-03	1.42E-02	1.70E-02	1.87E-02	2.09E-02	2.19E-02	2.29E-02	2.39E-02	2.46E-02	2.57E-02	2.62E-02	2.70E-02	2.74E-02	2.76E-02	2.80E-02	2.81E-02	2.81E-02	2.81E-02	2.81E-02	2.81E-02	2.81E-02
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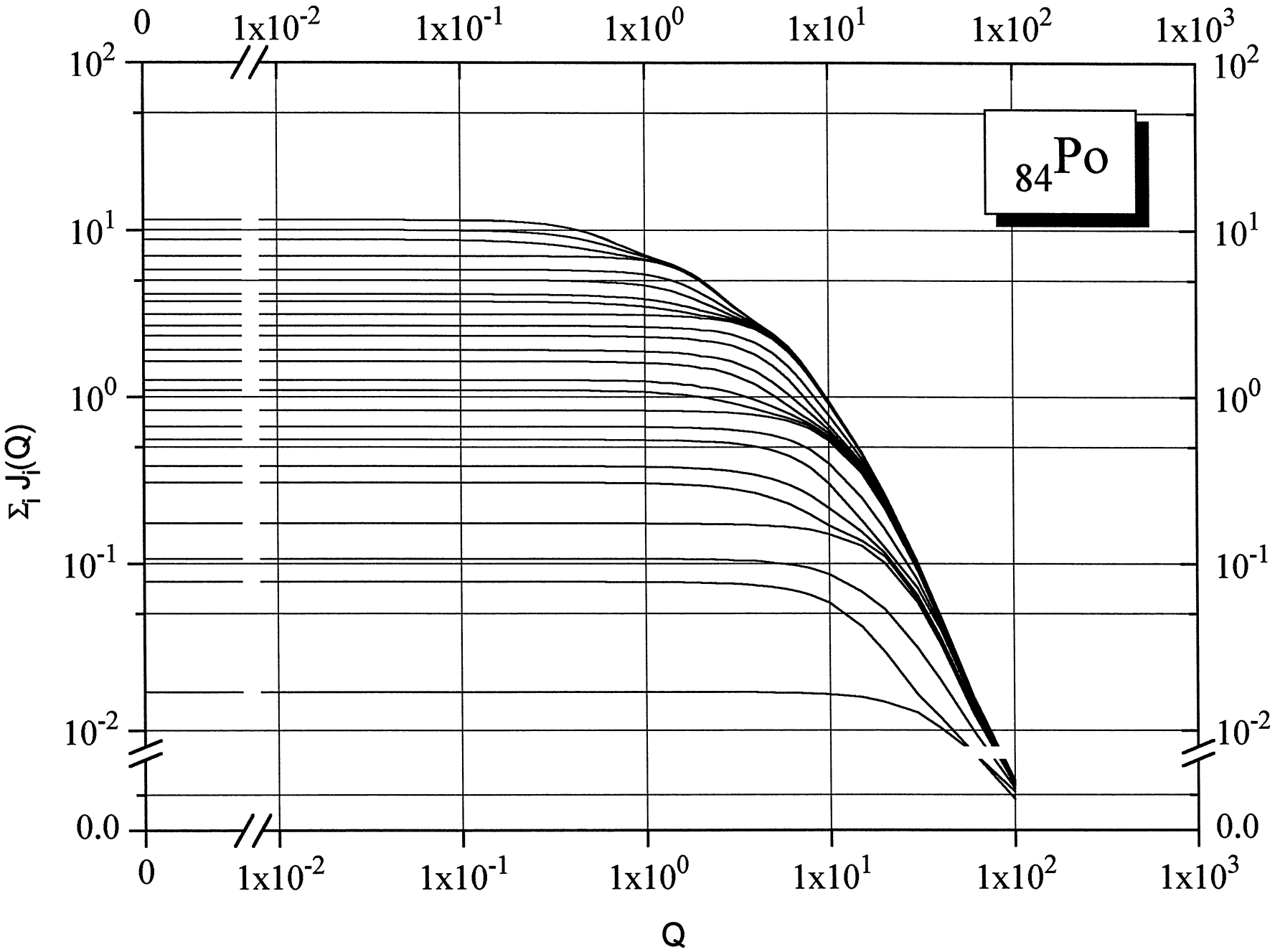
5.5E+01	3.47E-03	3.66E-03	5.17E-03	5.58E-03	5.83E-03	9.12E-03	1.09E-02	1.20E-02	1.34E-02	1.40E-02	1.47E-02	1.53E-02	1.58E-02	1.65E-02	1.68E-02	1.73E-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10-2
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84Po
Σf Jf(Q)
Q

Z=85

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(3)	Total
0.0E+00	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.55E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.32E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.93E-01	1.93E-01	2.12E-01	1.88E-01	1.94E-01	8.30E-01	5.93E-01	6.92E-01	1.17E+01
5.0E-02	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.55E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.32E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.93E-01	1.93E-01	2.12E-01	1.88E-01	1.94E-01	8.23E-01	5.93E-01	6.92E-01	1.17E+01
1.0E-01	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.55E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.32E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.92E-01	1.93E-01	2.12E-01	1.88E-01	1.94E-01	8.03E-01	5.93E-01	6.92E-01	1.17E+01
1.5E-01	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.55E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.32E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.90E-01	1.93E-01	2.12E-01	1.88E-01	1.94E-01	7.71E-01	5.91E-01	6.89E-01	1.16E+01
2.0E-01	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.55E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.32E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.88E-01	1.93E-01	2.12E-01	1.88E-01	1.94E-01	7.29E-01	5.88E-01	6.81E-01	1.15E+01
3.0E-01	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.54E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.31E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.81E-01	1.93E-01	2.12E-01	1.88E-01	1.94E-01	6.22E-01	5.69E-01	6.46E-01	1.11E+01
4.0E-01	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.53E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.30E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.73E-01	1.93E-01	2.12E-01	1.88E-01	1.94E-01	5.00E-01	5.32E-01	5.78E-01	1.06E+01
5.0E-01	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.52E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.29E-01	8.31E-02	9.04E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.62E-01	1.92E-01	2.11E-01	1.88E-01	1.94E-01	3.80E-01	4.74E-01	4.86E-01	9.91E+00
6.0E-01	8.38E-03	2.99E-02	1.45E-02	1.67E-02	6.50E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.28E-01	8.31E-02	9.03E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.49E-01	1.91E-01	2.10E-01	1.87E-01	1.93E-01	2.76E-01	4.04E-01	3.85E-01	9.22E+00
7.0E-01	8.38E-03	2.98E-02	1.45E-02	1.67E-02	6.48E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.26E-01	8.31E-02	9.03E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.35E-01	1.90E-01	2.08E-01	1.87E-01	1.93E-01	1.93E-01	3.28E-01	2.89E-01	8.56E+00
8.0E-01	8.38E-03	2.98E-02	1.45E-02	1.67E-02	6.46E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.24E-01	8.30E-02	9.03E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	2.20E-01	1.88E-01	2.05E-01	1.86E-01	1.92E-01	1.32E-01	2.56E-01	2.07E-01	8.00E+00
1.0E+00	8.37E-03	2.98E-02	1.45E-02	1.67E-02	6.42E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.20E-01	8.29E-02	9.01E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	1.88E-01	1.83E-01	1.96E-01	1.83E-01	1.88E-01	6.80E-02	1.40E-01	9.54E-02	7.15E+00
1.2E+00	8.37E-03	2.97E-02	1.45E-02	1.67E-02	6.36E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.15E-01	8.27E-02	8.98E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	1.55E-01	1.74E-01	1.84E-01	1.78E-01	1.82E-01	4.90E-02	6.95E-02	4.21E-02	6.60E+00
1.4E+00	8.37E-03	2.97E-02	1.45E-02	1.67E-02	6.29E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.10E-01	8.24E-02	8.93E-02	6.74E-02	6.91E-02	5.58E-02	5.65E-02	1.25E-01	1.62E-01	1.67E-01	1.69E-01	1.72E-01	4.68E-02	3.47E-02	2.20E-02	6.20E+00
1.6E+00	8.37E-03	2.96E-02	1.45E-02	1.67E-02	6.21E-02	3.83E-02	4.19E-02	2.70E-02	2.78E-02	1.04E-01	8.19E-02	8.86E-02	6.73E-02	6.91E-02	5.57E-02	5.65E-02	9.78E-02	1.47E-01	1.48E-01	1.57E-01	1.58E-01	4.61E-02	2.09E-02	1.66E-02	5.85E+00
1.8E+00	8.37E-03	2.95E-02	1.45E-02	1.67E-02	6.12E-02	3.82E-02	4.18E-02	2.70E-02	2.78E-02	9.77E-02	8.13E-02	8.76E-02	6.73E-02	6.90E-02	5.57E-02	5.65E-02	7.55E-02	1.31E-01	1.27E-01	1.42E-01	1.42E-01	4.23E-02	1.68E-02	1.60E-02	5.50E+00
2.0E+00	8.37E-03	2.95E-02	1.45E-02	1.67E-02	6.02E-02	3.82E-02	4.18E-02	2.70E-02	2.78E-02	9.11E-02	8.04E-02	8.64E-02	6.72E-02	6.88E-02	5.57E-02	5.64E-02	5.82E-02	1.14E-01	1.06E-01	1.26E-01	1.25E-01	3.57E-02	1.63E-02	1.58E-02	5.14E+00
2.4E+00	8.36E-03	2.93E-02	1.45E-02	1.67E-02	5.81E-02	3.82E-02	4.17E-02	2.70E-02	2.78E-02	7.76E-02	7.80E-02	8.29E-02	6.67E-02	6.84E-02	5.56E-02	5.63E-02	3.70E-02	8.02E-02	6.90E-02	9.30E-02	8.99E-02	2.09E-02	1.55E-02	1.32E-02	4.44E+00
3.0E+00	8.35E-03	2.89E-02	1.45E-02	1.67E-02	5.43E-02	3.80E-02	4.14E-02	2.70E-02	2.78E-02	5.82E-02	7.25E-02	7.53E-02	6.54E-02	6.68E-02	5.52E-02	5.59E-02	2.75E-02	4.12E-02	3.19E-02	5.09E-02	4.72E-02	7.48E-03	1.01E-02	6.71E-03	3.61E+00
4.0E+00	8.33E-03	2.82E-02	1.45E-02	1.67E-02	4.70E-02	3.74E-02	4.06E-02	2.70E-02	2.77E-02	3.31E-02	5.88E-02	5.77E-02	6.03E-02	6.11E-02	5.31E-02	5.37E-02	2.60E-02	1.45E-02	1.32E-02	1.47E-02	1.30E-02	4.09E-03	2.75E-03	1.62E-03	2.83E+00
5.0E+00	8.31E-03	2.72E-02	1.45E-02	1.66E-02	3.91E-02	3.64E-02	3.90E-02	2.69E-02	2.76E-02	1.94E-02	4.26E-02	3.86E-02	5.15E-02	5.15E-02	4.90E-02	4.92E-02	1.80E-02	1.16E-02	1.24E-02	5.77E-03	5.62E-03	3.47E-03	1.27E-03	1.15E-03	2.41E+00
6.0E+00	8.28E-03	2.62E-02	1.44E-02	1.66E-02	3.14E-02	3.47E-02	3.67E-02	2.67E-02	2.74E-02	1.43E-02	2.77E-02	2.32E-02	4.03E-02	3.96E-02	4.30E-02	4.30E-02	9.15E-03	1.09E-02	1.02E-02	4.98E-03	5.03E-03	1.91E-03	1.21E-03	1.04E-03	2.03E+00
7.0E+00	8.24E-03	2.49E-02	1.44E-02	1.65E-02	2.44E-02	3.26E-02	3.37E-02	2.64E-02	2.71E-02	1.34E-02	1.68E-02	1.33E-02	2.91E-02	2.80E-02	3.61E-02	3.59E-02	4.50E-03	8.12E-03	6.53E-03	4.76E-03	4.68E-03	8.60E-04	9.88E-04	7.00E-04	1.68E+00
8.0E+00	8.20E-03	2.36E-02	1.43E-02	1.64E-02	1.85E-02	2.99E-02	3.01E-02	2.59E-02	2.65E-02	1.33E-02	1.02E-02	8.37E-03	1.96E-02	1.85E-02	2.92E-02	2.89E-02	3.16E-03	5.02E-03	3.53E-03	3.89E-03	3.69E-03	4.91E-04	6.39E-04	3.85E-04	1.39E+00
1.0E+01	8.10E-03	2.10E-02	1.40E-02	1.60E-02	1.00E-02	2.40E-02	2.20E-02	2.40E-02	2.50E-02	1.10E-02	5.80E-03	6.20E-03	7.80E-03	7.10E-03	1.80E-02	1.70E-02	2.90E-03	1.60E-03	1.30E-03	1.80E-03	1.60E-03	4.30E-04	2.00E-04	1.30E-04	9.60E-01
1.5E+01	7.80E-03	1.30E-02	1.30E-02	1.50E-02	5.10E-03	9.10E-03	7.10E-03	1.70E-02	1.70E-02	2.20E-03	4.50E-03	4.00E-03	2.40E-03	2.50E-03	4.30E-03	4.10E-03	7.10E-04	9.80E-04	8.90E-04	3.20E-04	3.20E-04	1.10E-04	1.10E-04	8.40E-05	4.70E-01
2.0E+01	7.40E-03	7.50E-03	1.20E-02	1.20E-02	4.70E-03	2.80E-03	2.30E-03	9.50E-03	9.10E-03	1.30E-03	1.60E-03	1.10E-03	2.10E-03	2.10E-03	9.90E-04	9.20E-04	2.80E-04	3.90E-04	2.50E-04	2.90E-04	2.80E-04	4.00E-05	4.30E-05	2.40E-05	2.70E-01
3.0E+01	6.30E-03	1.90E-03	7.60E-03	6.90E-03	1.70E-03	1.40E-03	1.70E-03	2.30E-03	2.00E-03	6.10E-04	3.20E-04	4.00E-04	6.70E-04	6.10E-04	6.70E-05	6.00E-05	1.40E-04	6.30E-05	7.50E-05	9.90E-05	8.80E-05	2.10E-05	6.70E-06	6.90E-06	1.10E-01
4.0E+01	5.20E-03	7.90E-04	4.30E-03	3.40E-03	3.30E-04	1.10E-03	1.10E-03	5.20E-04	4.30E-04	1.20E-04	2.90E-04	2.90E-04	1.60E-04	1.30E-04	6.60E-06	5.70E-06	2.70E-05	5.60E-05	5.60E-05	2.40E-05	2.00E-05	3.90E-06	6.00E-06	5.20E-06	5.00E-02
6.0E+01	3.20E-03	6.90E-04	1.20E-03	7.10E-04	1.60E-04	3.70E-04	2.50E-04	3.90E-05	2.80E-05	4.00E-05	1.00E-04	6.70E-05	1.20E-05	8.70E-06	1.70E-07	1.30E-07	8.70E-06	2.00E-05	1.30E-05	1.80E-06	1.30E-06	1.20E-06	2.20E-06	1.20E-06	1.60E-02
1.0E+02	1.10E-03	2.70E-04	1.30E-04	4.80E-05	6.90E-05	4.00E-05	1.50E-05	8.90E-07	4.90E-07	1.80E-05	1.10E-05	4.10E-06	2.60E-07	1.50E-07	1.20E-09	7.40E-10	4.00E-06	2.10E-06	8.00E-07	3.90E-08	2.10E-08	5.60E-07	2.30E-07	7.40E-08	3.60E-03

E[keV]: 9.57E+01 1.75E+01 1.68E+01 1.42E+01 4.32E+00 4.01E+00 3.43E+00 2.91E+00 2.79E+00 1.04E+00 8.86E-01 7.40E-01 5.33E-01 5.07E-01 2.10E-01 2.10E-01 1.95E-01 1.48E-01 1.15E-01 4.00E-02 4.00E-02 0.00E+00 0.00E+00 0.00E+00

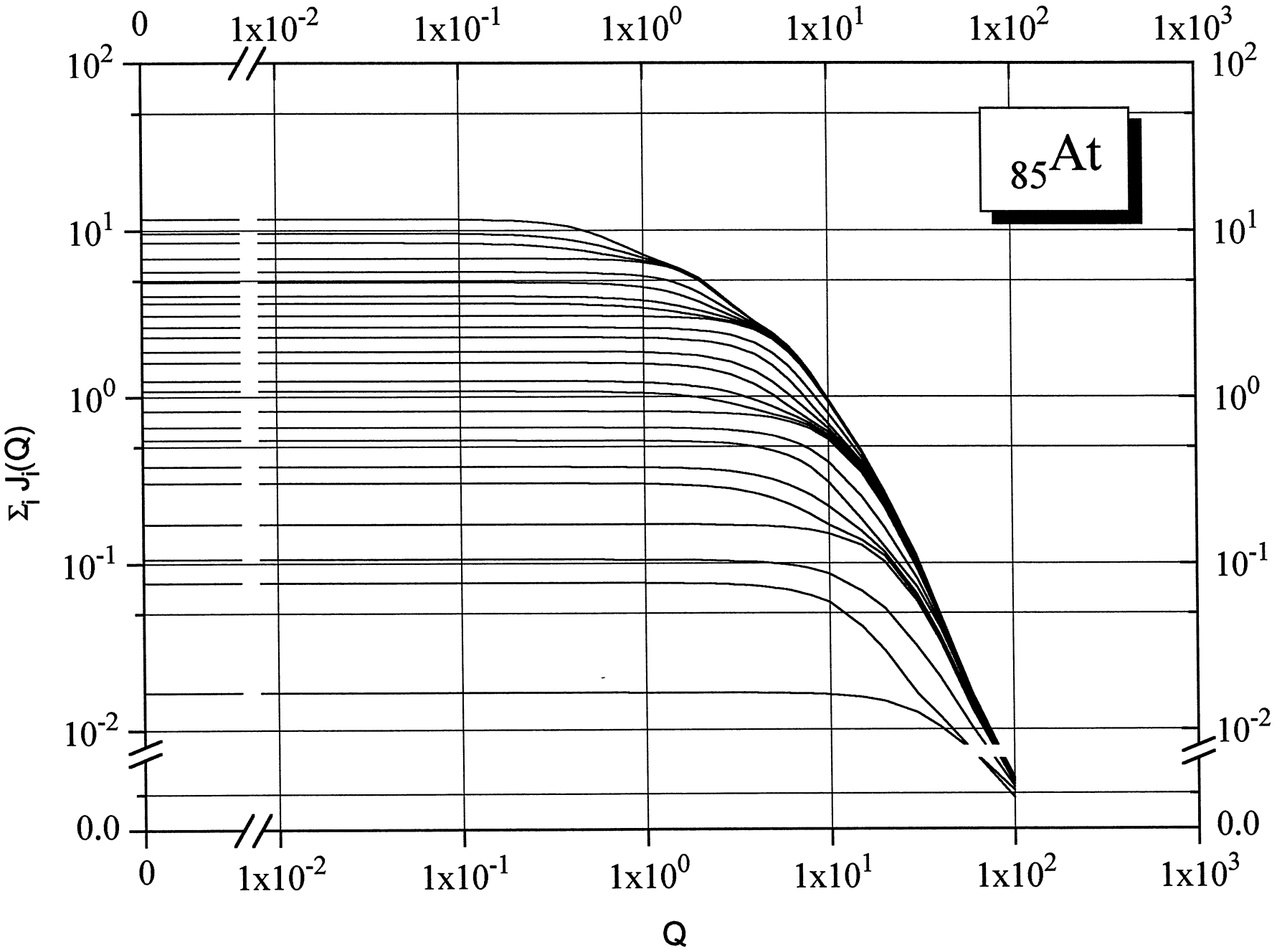
Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(3)	Total
0.0E+00	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.80E-01	5.48E-01	6.56E-01	8.22E-01	1.09E+00	1.25E+00	1.61E+00	1.88E+00	2.30E+00	2.63E+00	3.09E+00	3.67E+00	4.06E+00	4.91E+00	5.66E+00	6.82E+00	8.48E+00	9.67E+00	1.17E+01	1.17E+01
5.0E-02	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.80E-01	5.48E-01	6.56E-01	8.22E-01	1.09E+00	1.25E+00	1.61E+00	1.88E+00	2.30E+00	2.63E+00	3.09E+00	3.67E+00	4.06E+00	4.91E+00	5.66E+00	6.82E+00	8.47E+00	9.65E+00	1.17E+01	1.17E+01
1.0E-01	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.80E-01	5.48E-01	6.56E-01	8.22E-01	1.09E+00	1.25E+00	1.61E+00	1.88E+00	2.30E+00	2.63E+00	3.09E+00	3.67E+00	4.06E+00	4.90E+00	5.66E+00	6.82E+00	8.43E+00	9.61E+00	1.17E+01	1.17E+01
1.5E-01	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.80E-01	5.48E-01	6.56E-01	8.22E-01	1.09E+00	1.25E+00	1.61E+00	1.88E+00	2.30E+00	2.63E+00	3.09E+00	3.67E+00	4.05E+00	4.90E+00	5.65E+00	6.82E+00	8.36E+00	9.54E+00	1.16E+01	1.16E+01
2.0E-01	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.80E-01	5.48E-01	6.56E-01	8.22E-01	1.09E+00	1.25E+00	1.61E+00	1.88E+00	2.30E+00	2.63E+00	3.09E+00	3.66E+00	4.05E+00	4.90E+00	5.65E+00	6.81E+00	8.27E+00	9.45E+00	1.15E+01	1.15E+01
3.0E-01	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.80E-01	5.47E-01	6.55E-01	8.22E-01	1.08E+00	1.25E+00	1.61E+00	1.88E+00	2.30E+00	2.63E+00	3.08E+00	3.64E+00	4.03E+00	4.88E+00	5.63E+00	6.79E+00	8.04E+00	9.18E+00	1.11E+01	1.11E+01
4.0E-01	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.80E-01	5.47E-01	6.55E-01	8.22E-01	1.08E+00	1.25E+00	1.61E+00	1.88E+00	2.29E+00	2.63E+00	3.08E+00	3.63E+00	4.01E+00	4.86E+00	5.61E+00	6.78E+00	7.78E+00	8.84E+00	1.06E+01	1.06E+01
5.0E-01	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.03E-01	3.79E-01	5.47E-01	6.55E-01	8.22E-01	1.08E+00	1.25E+00	1.61E+00	1.88E+00	2.29E+00	2.63E+00	3.08E+00	3.60E+00	3.99E+00	4.83E+00	5.58E+00	6.75E+00	7.51E+00	8.45E+00	9.91E+00	9.91E+00
6.0E-01	1.68E-02	7.66E-02	1.06E-01	1.72E-01	3.02E-01	3.79E-01	5.47E-01	6.55E-01	8.21E-01	1.08E+00	1.24E+00	1.60E+00	1.87E+00	2.29E+00	2.62E+00	3.08E+00	3.57E+00	3.96E+00	4.80E+00	5.54E+00	6.70E+00	7.25E+00	8.06E+00	9.22E+00	9.22E+00
7.0E-01	1.68E-02	7.64E-02	1.05E-01	1.72E-01	3.02E-01	3.78E-01	5.46E-01	6.54E-01	8.21E-01	1.07E+00	1.24E+00	1.60E+00	1.87E+00	2.28E+00	2.62E+00	3.07E+00	3.54E+00	3.92E+00	4.75E+00	5.50E+00	6.66E+00	7.05E+00	7.70E+00	8.57E+00	8.56E+00
8.0E-01	1.68E-02	7.64E-02	1.05E-01	1.72E-01	3.01E-01	3.78E-01	5.46E-01	6.54E-01	8.20E-01	1.07E+00	1.23E+00	1.60E+00	1.87E+00	2.28E+00	2.61E+00	3.07E+00	3.51E+00	3.88E+00	4.70E+00	5.45E+00	6.60E+00	6.86E+00	7.37E+00	8.00E+00	8.00E+00
1.0E+00	1.67E-02	7.63E-02	1.05E-01	1.72E-01	3.01E-01	3.77E-01	5.45E-01	6.53E-01	8.20E-01	1.06E+00	1.23E+00	1.59E+00	1.86E+00	2.27E+00	2.60E+00	3.06E+00	3.43E+00	3.80E+00	4.58E+00	5.31E+00	6.44E+00	6.58E+00	6.86E+00	7.14E+00	7.15E+00
1.2E+00	1.67E-02	7.61E-02	1.05E-01	1.72E-01	2.99E-01	3.76E-01	5.43E-01	6.51E-01	8.18E-01	1.05E+00	1.21E+00	1.57E+00	1.84E+00	2.26E+00	2.59E+00	3.04E+00	3.35E+00	3.70E+00	4.44E+00	5.15E+00	6.24E+00	6.34E+00	6.48E+00	6.61E+00	6.60E+00
1.4E+00	1.67E-02	7.61E-02	1.05E-01	1.72E-01	2.98E-01	3.74E-01	5.42E-01	6.50E-01	8.17E-01	1.04E+00	1.20E+00	1.56E+00	1.83E+00	2.24E+00	2.58E+00	3.03E+00	3.28E+00	3.60E+00	4.27E+00	4.95E+00	5.98E+00	6.07E+00	6.14E+00	6.21E+00	6.20E+00
1.6E+00	1.67E-02	7.59E-02	1.05E-01	1.72E-01	2.96E-01	3.73E-01	5.40E-01	6.48E-01	8.15E-01	1.02E+00	1.19E+00	1.54E+00	1.81E+00	2.22E+00	2.56E+00	3.01E+00	3.21E+00	3.50E+00	4.09E+00	4.72E+00	5.67E+00	5.80E+00	5.85E+00	5.85E+00	5.85E+00
1.8E+00	1.67E-02	7.57E-02	1.05E-01	1.72E-01	2.94E-01	3.70E-01	5.38E-01	6.46E-01	8.12E-01	1.01E+00	1.17E+00	1.52E+00	1.79E+00	2.20E+00	2.54E+00	2.99E+00	3.14E+00	3.40E+00	3.91E+00	4.48E+00	5.33E+00	5.42E+00	5.45E+00	5.50E+00	5.50E+00
2.0E+00	1.67E-02	7.57E-02	1.05E-01	1.72E-01	2.92E-01	3.68E-01	5.36E-01	6.44E-01	8.10E-01	9.93E-01	1.15E+00	1.50E+00	1.77E+00	2.18E+00	2.51E+00	2.97E+00	3.08E+00	3.31E+00	3.73E+00	4.24E+00	4.99E+00	5.06E+00	5.09E+00	5.14E+00	5.14E+00
2.4E+00	1.67E-02	7.52E-02	1.04E-01	1.71E-01	2.87E-01	3.64E-01	5.31E-01	6.39E-01	8.05E-01	9.61E-01	1.12E+00	1.45E+00	1.71E+00	2.13E+00	2.46E+00	2.91E+00	2.98E+00	3.14E+00	3.42E+00	3.79E+00	4.33E+00	4.37E+00	4.40E+00	4.44E+00	4.44E+00
3.0E+00	1.67E-02	7.45E-02	1.03E-01	1.70E-01	2.79E-01	3.55E-01	5.21E-01	6.29E-01	7.95E-01	9.12E-01	1.06E+00	1.36E+00	1.62E+00	2.02E+00	2.35E+00	2.80E+00	2.85E+00	2.94E+00	3.06E+00	3.27E+00	3.55E+00	3.57E+00	3.59E+00	3.61E+00	3.61E+00
4.0E+00	1.67E-02	7.31E-02	1.02E-01	1.69E-01	2.63E-01	3.38E-01	5.00E-01	6.08E-01	7.74E-01	8.40E-01	9.58E-01	1.19E+00	1.43E+00	1.80E+00	2.12E+00	2.54E+00	2.60E+00	2.63E+00	2.68E+00	2.74E+00	2.82E+00	2.82E+00	2.83E+00	2.83E+00	2.83E+00
5.0E+00	1.66E-02	7.10E-02	1.00E-01	1.66E-01	2.45E-01	3.17E-01	4.73E-01	5.81E-01	7.47E-01	7.85E-01	8.71E-01	1.03E+00	1.23E+00	1.54E+00	1.83E+00	2.23E+00	2.26E+00	2.29E+00	2.34E+00	2.36E+00	2.39E+00	2.40E+00	2.40E+00	2.41E+00	2.41E+00
6.0E+00	1.66E-02	6.90E-02	9.78E-02	1.64E-01	2.27E-01	2.96E-01	4.43E-01	5.50E-01	7.14E-01	7.43E-01	7.98E-01	8.91E-01	1.05E+00	1.29E+00	1.55E+00	1.89E+00	1.91E+00	1.93E+00	1.97E+00	1.99E+00	2.02E+00	2.03E+00	2.03E+00	2.03E+00	2.03E+00
7.0E+00	1.65E-02	6.63E-02	9.51E-02	1.61E-01	2.10E-01	2.75E-01	4.10E-01	5.15E-01	6.78E-01	7.05E-01	7.38E-01	7.92E-01	9.08E-01	1.08E+00	1.29E+00	1.58E+00	1.59E+00	1.61E+00	1.63E+00	1.65E+00	1.68E+00	1.68E+00	1.68E+00	1.68E+00	1.68E+00
8.0E+00	1.64E-02	6.36E-02	9.22E-02	1.58E-01	1.95E-01	2.55E-01	3.75E-01	4.79E-01	6.38E-01	6.64E-01	6.85E-01	7.18E-01	7.96E-01	9.07E-01	1.08E+00	1.31E+00	1.32E+00	1.33E+00	1.34E+00	1.36E+00	1.38E+00	1.38E+00	1.38E+00	1.39E+00	1.39E+00
1.0E+01	1.62E-02	5.82E-02	8.62E-02	1.50E-01	1.70E-01	2.18E-01	3.06E-01	4.02E-01	5.52E-01	5.74E-01	5.86E-01	6.11E-01	6.42E-01	6.84E-01	7.92E-01	9.28E-01	9.34E-01	9.37E-01	9.43E-01	9.50E-01	9.59E-01	9.60E-01	9.61E-01	9.61E-01	9.60E-01
1.5E+01	1.56E-02	4.16E-02	6.76E-02	1.28E-01	1.38E-01	1.56E-01	1.84E-01	2.52E-01	3.54E-01	3.59E-01	3.68E-01	3.84E-01	3.93E-01	4.08E-01	4.34E-01	4.67E-01	4.68E-01	4.70E-01	4.74E-01	4.75E-01	4.77E-01	4.78E-01	4.78E-01	4.78E-01	4.70E-01
2.0E+01	1.48E-02	2.98E-02	5.38E-02	1.02E-01	1.11E-01	1.17E-01	1.26E-01	1.64E-01	2.19E-01	2.21E-01	2.24E-01	2.29E-01	2.37E-01	2.50E-01	2.56E-01	2.63E-01	2.64E-01	2.64E-01	2.65E-01	2.67E-01	2.68E-01	2.68E-01	2.68E-01	2.69E-01	2.70E-01
3.0E+01	1.26E-02	1.64E-02	3.16E-02	5.92E-02	6.26E-02	6.54E-02	7.22E-02	8.14E-02	9.34E-02	9.46E-02	9.53E-02	9.69E-02	9.95E-02	1.03E-01	1.04E-01	1.04E-01	1.04E-01	1.04E-01	1.05E-01	1.05E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.10E-01
4.0E+01	1.04E-02	1.20E-02	2.06E-02	3.42E-02	3.48E-02	3.70E-02	4.14E-02	4.35E-02	4.61E-02	4.63E-02	4.69E-02	4.81E-02	4.87E-02	4.95E-02	4.95E-02	4.96E-02	4.96E-02	4.98E-02	5.00E-02	5.01E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.00E-02
6.0E+01	6.40E-03	7.78E-03	1.02E-02	1.33E-02	1.33E-02	1.41E-02	1.51E-02	1.52E-02	1.54E-02	1.55E-02	1.57E-02	1.60E-02	1.60E-02	1.61E-02	1.61E-02	1.61E-02	1.61E-02	1.61E-02	1.62E-02	1.62E-02	1.62E-02	1.62E-02	1.62E-02	1.62E-02	1.60E-02
1.0E+02	2.20E-03	2.74E-03	3.00E-03	3.19E-03	3.33E-03	3.41E-03	3.47E-03	3.47E-03	3.48E-03	3.51E-03	3.53E-03	3.55E-03	3.55E-03	3.55E-03	3.55E-03	3.55E-03	3.56E-03	3.57E-03	3.57E-03	3.57E-03	3.57E-03	3.57E-03	3.57E-03	3.57E-03	3.60E-03

E[keV]: 9.57E+01 1.75E+01 1.68E+01 1.42E+01 4.32E+00 4.01E+00 3.43E+00 2.91E+00 2.79E+00 1.04E+00 8.86E-01 7.40E-01 5.33E-01 5.07E-01 2.10E-01 2.10E-01 1.95E-01 1.48E-01 1.15E-01 4.00E-02 4.00E-02 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																									
0.0E+00	4.92E+00	6.84E+00	7.69E+00	8.07E+00	8.66E+00	9.44E+00	9.86E+00	1.01E+01	1.05E+01	1.07E+01	1.09E+01	1.11E+01	1.12E+01	1.14E+01	1.14E+01	1.16E+01	1.16E+01	1.17E+01	1.17E+01	1.17E+01	1.17E+01	1.17E+01	1.17E+01	1.17E+01	1.17E+01
5.0E-02	4.91E+00	6.82E+00	7.67E+00	8.06E+00	8.64E+00	9.43E+00	9.85E+00	1.01E+01	1.05E+01	1.06E+01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1x10-2
1x10-1
1x100
1x101
1x102
1x103
102
101
100
10-1
10-2
0.0
85At
Σi Ji(Q)
Q

Z=86

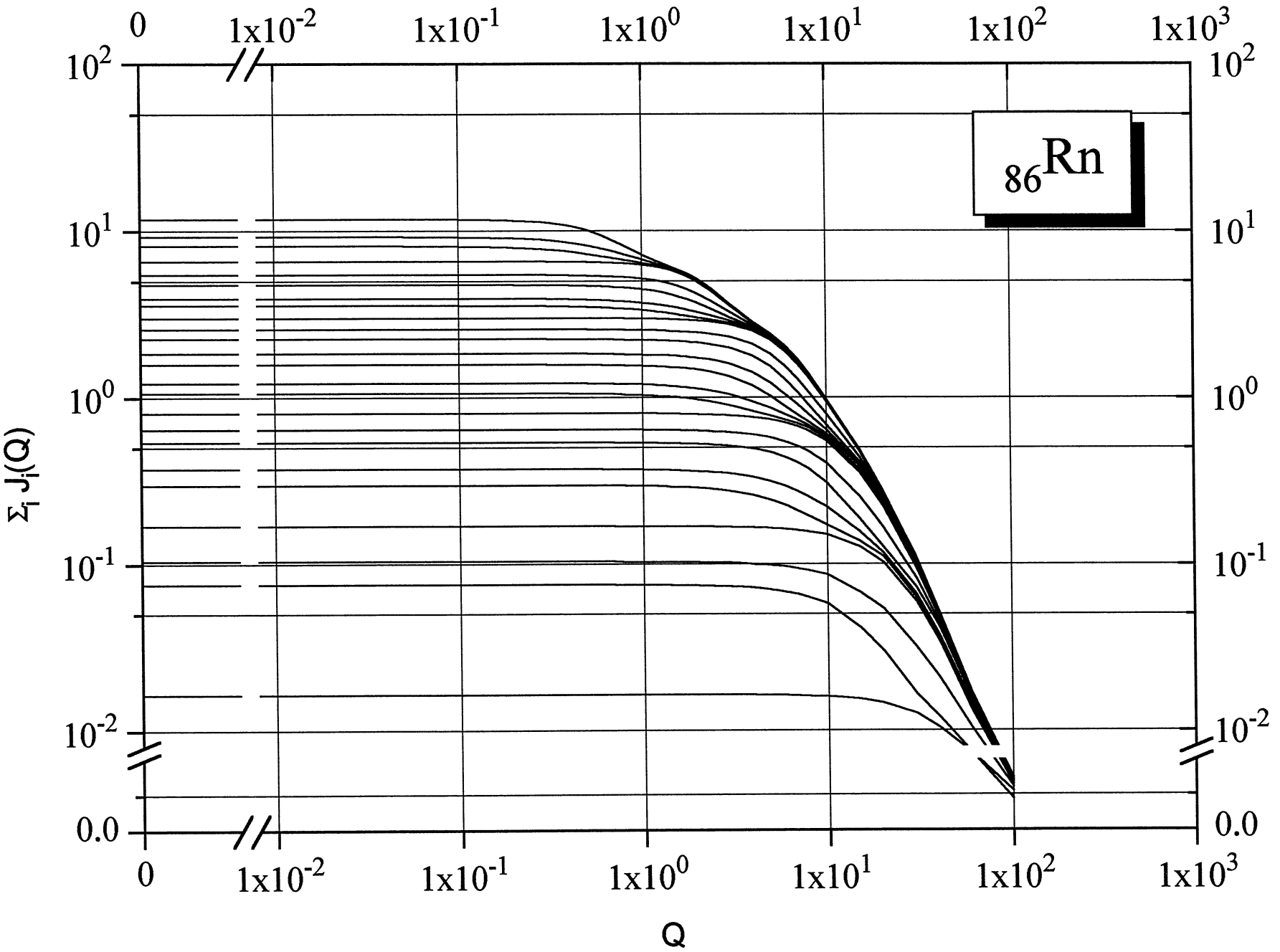
Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	Total
0.0E+00	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.44E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.30E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.84E-01	1.87E-01	2.05E-01	1.79E-01	1.85E-01	7.82E-01	5.51E-01	6.44E-01	1.19E+01
5.0E-02	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.44E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.30E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.83E-01	1.87E-01	2.05E-01	1.79E-01	1.85E-01	7.76E-01	5.51E-01	6.44E-01	1.18E+01
1.0E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.44E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.29E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.82E-01	1.87E-01	2.05E-01	1.79E-01	1.85E-01	7.59E-01	5.50E-01	6.43E-01	1.18E+01
1.5E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.44E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.29E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.81E-01	1.87E-01	2.05E-01	1.79E-01	1.85E-01	7.32E-01	5.49E-01	6.41E-01	1.17E+01
2.0E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.44E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.29E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.79E-01	1.87E-01	2.05E-01	1.79E-01	1.85E-01	6.96E-01	5.47E-01	6.36E-01	1.16E+01
3.0E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.43E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.29E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.73E-01	1.87E-01	2.05E-01	1.79E-01	1.85E-01	6.02E-01	5.34E-01	6.09E-01	1.13E+01
4.0E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.42E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.28E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.65E-01	1.86E-01	2.05E-01	1.79E-01	1.85E-01	4.94E-01	5.05E-01	5.57E-01	1.08E+01
5.0E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.41E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.27E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.55E-01	1.86E-01	2.04E-01	1.79E-01	1.85E-01	3.86E-01	4.81E-01	4.83E-01	1.02E+01
6.0E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.40E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.25E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.43E-01	1.85E-01	2.03E-01	1.79E-01	1.85E-01	2.88E-01	4.03E-01	3.96E-01	9.47E+00
7.0E-01	8.23E-03	2.94E-02	1.42E-02	1.65E-02	6.38E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.24E-01	8.14E-02	8.87E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.30E-01	1.84E-01	2.01E-01	1.79E-01	1.85E-01	2.07E-01	3.38E-01	3.08E-01	8.79E+00
8.0E-01	8.23E-03	2.93E-02	1.42E-02	1.65E-02	6.36E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.22E-01	8.14E-02	8.86E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	2.16E-01	1.83E-01	1.99E-01	1.78E-01	1.84E-01	1.46E-01	2.73E-01	2.30E-01	8.17E+00
9.0E-01	8.23E-03	2.93E-02	1.42E-02	1.65E-02	6.35E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.14E-01	8.11E-02	8.82E-02	6.60E-02	6.78E-02	5.43E-02	5.50E-02	1.86E-01	1.78E-01	1.91E-01	1.76E-01	1.81E-01	7.55E-02	1.60E-01	1.15E-01	7.21E+00
1.0E+00	8.23E-03	2.93E-02	1.42E-02	1.65E-02	6.31E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.08E-01	8.12E-02	8.85E-02	6.61E-02	6.78E-02	5.43E-02	5.50E-02	1.56E-01	1.70E-01	1.80E-01	1.72E-01	1.76E-01	5.12E-02	8.52E-02	5.35E-02	6.58E+00
1.2E+00	8.23E-03	2.93E-02	1.42E-02	1.65E-02	6.26E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.04E-01	8.11E-02	8.82E-02	6.60E-02	6.78E-02	5.43E-02	5.50E-02	1.26E-01	1.59E-01	1.65E-01	1.64E-01	1.68E-01	4.69E-02	4.39E-02	2.71E-02	6.16E+00
1.4E+00	8.23E-03	2.92E-02	1.42E-02	1.65E-02	6.19E-02	3.76E-02	4.13E-02	2.66E-02	2.74E-02	1.09E-01	8.08E-02	8.77E-02	6.60E-02	6.78E-02	5.43E-02	5.50E-02	1.00E-01	1.46E-01	1.48E-01	1.55E-01	1.56E-01	4.66E-02	2.52E-02	1.85E-02	5.81E+00
1.6E+00	8.23E-03	2.91E-02	1.42E-02	1.65E-02	6.12E-02	3.76E-02	4.12E-02	2.66E-02	2.74E-02	1.03E-01	8.03E-02	8.71E-02	6.60E-02	6.77E-02	5.43E-02	5.50E-02	7.83E-02	1.31E-01	1.29E-01	1.42E-01	1.43E-01	4.41E-02	1.86E-02	1.69E-02	5.49E+00
1.8E+00	8.23E-03	2.91E-02	1.42E-02	1.65E-02	6.03E-02	3.76E-02	4.12E-02	2.66E-02	2.74E-02	9.68E-02	7.98E-02	8.62E-02	6.59E-02	6.76E-02	5.43E-02	5.50E-02	5.38E-02	1.15E-01	1.09E-01	1.28E-01	1.27E-01	3.86E-02	1.72E-02	1.68E-02	5.15E+00
2.0E+00	8.22E-03	2.90E-02	1.42E-02	1.65E-02	5.94E-02	3.76E-02	4.12E-02	2.66E-02	2.74E-02	9.05E-02	7.90E-02	8.51E-02	6.58E-02	6.75E-02	5.43E-02	5.50E-02	6.08E-02	1.15E-01	1.09E-01	1.28E-01	1.27E-01	3.86E-02	1.72E-02	1.68E-02	5.15E+00
2.4E+00	8.22E-03	2.88E-02	1.42E-02	1.65E-02	5.73E-02	3.75E-02	4.11E-02	2.66E-02	2.74E-02	7.75E-02	7.68E-02	8.19E-02	6.55E-02	6.71E-02	5.42E-02	5.49E-02	3.86E-02	8.33E-02	7.27E-02	9.72E-02	9.43E-02	2.41E-02	1.67E-02	1.48E-02	4.49E+00
3.0E+00	8.21E-03	2.85E-02	1.42E-02	1.64E-02	5.37E-02	3.74E-02	4.09E-02	2.66E-02	2.74E-02	5.88E-02	7.17E-02	7.47E-02	6.43E-02	6.57E-02	5.39E-02	5.45E-02	2.76E-02	4.44E-02	3.48E-02	5.58E-02	5.20E-02	8.99E-03	1.19E-02	8.28E-03	3.65E+00
4.0E+00	8.19E-03	2.78E-02	1.42E-02	1.64E-02	4.67E-02	3.68E-02	4.00E-02	2.65E-02	2.73E-02	3.39E-02	5.88E-02	5.80E-02	5.97E-02	6.06E-02	5.21E-02	5.27E-02	2.61E-02	1.55E-02	1.37E-02	1.70E-02	1.51E-02	4.28E-03	3.53E-03	2.03E-03	2.84E+00
5.0E+00	8.17E-03	2.69E-02	1.42E-02	1.64E-02	3.91E-02	3.59E-02	3.86E-02	2.65E-02	2.73E-02	1.99E-02	4.33E-02	3.95E-02	5.15E-02	5.15E-02	4.84E-02	4.88E-02	1.90E-02	1.16E-02	1.25E-02	6.35E-03	5.98E-03	3.81E-03	1.44E-03	1.27E-03	2.41E+00
6.0E+00	8.14E-03	2.58E-02	1.42E-02	1.64E-02	3.16E-02	3.43E-02	3.64E-02	2.63E-02	2.71E-02	1.44E-02	2.87E-02	2.41E-02	4.09E-02	4.02E-02	4.30E-02	4.30E-02	1.00E-02	1.11E-02	1.07E-02	5.14E-03	5.19E-03	2.23E-03	1.35E-03	1.19E-03	2.05E+00
7.0E+00	8.10E-03	2.47E-02	1.41E-02	1.63E-02	2.47E-02	3.23E-02	3.35E-02	2.60E-02	2.67E-02	1.33E-02	1.77E-02	1.40E-02	3.00E-02	2.89E-02	3.65E-02	3.64E-02	4.92E-03	8.64E-03	7.11E-03	4.99E-03	4.94E-03	1.03E-03	1.15E-03	8.40E-04	1.71E+00
8.0E+00	8.06E-03	2.34E-02	1.41E-02	1.62E-02	1.89E-02	2.97E-02	3.01E-02	2.55E-02	2.62E-02	1.32E-02	1.08E-02	8.69E-03	2.05E-02	1.93E-02	2.99E-02	2.96E-02	3.27E-03	5.52E-03	3.95E-03	4.21E-03	4.01E-03	5.53E-04	7.75E-04	4.78E-04	1.41E+00
9.0E+00	8.00E-03	2.30E-02	1.40E-02	1.60E-02	1.18E-02	2.40E-02	2.20E-02	2.40E-02	2.40E-02	1.10E-02	5.80E-03	6.20E-03	8.40E-03	7.60E-03	1.90E-02	1.80E-02	3.00E-03	1.80E-03	1.40E-03	2.10E-03	1.80E-03	4.60E-04	2.50E-04	1.50E-04	9.80E-01
1.0E+01	8.00E-03	2.10E-02	1.40E-02	1.60E-02	1.18E-02	2.40E-02	2.20E-02	2.40E-02	2.40E-02	1.10E-02	5.80E-03	6.20E-03	8.40E-03	7.60E-03	1.90E-02	1.80E-02	3.00E-03	1.80E-03	1.40E-03	2.10E-03	1.80E-03	4.60E-04	2.50E-04	1.50E-04	9.80E-01
1.5E+01	7.70E-03	1.30E-02	1.30E-02	1.50E-02	5.00E-03	9.50E-03	7.40E-03	1.70E-02	1.70E-02	2.40E-03	4.60E-03	4.20E-03	2.40E-03	2.50E-03	4.60E-03	4.40E-03	7.90E-04	1.00E-03	9.50E-04	3.40E-04	3.40E-04	1.30E-04	1.20E-04	9.80E-05	4.80E-01
2.0E+01	7.30E-03	7.70E-03	1.20E-02	1.20E-02	4.70E-03	3.00E-03	2.40E-03	9.70E-03	9.30E-03	1.30E-03	1.70E-03	1.20E-03	2.20E-03	2.10E-03	1.10E-03	1.00E-03	2.90E-04	4.30E-04	2.80E-04	3.10E-04	3.00E-04	4.30E-05	5.30E-05	3.00E-05	2.70E-01
3.0E+01	6.30E-03	2.00E-03	7.60E-03	7.00E-03	1.70E-03	1.40E-03	1.70E-03	2.40E-03	2.10E-03	6.50E-04	3.20E-04	4.00E-04	7.20E-04	6.50E-04	7.60E-05	6.80E-05	1.60E-04	6.50E-05	7.70E-05	1.10E-04	9.90E-05	2.40E-05	7.60E-06	7.80E-06	1.10E-01
4.0E+01	5.20E-03	8.00E-04	4.40E-03	3.40E-03	3.60E-04	1.20E-03	1.10E-03	5.60E-04	4.60E-04	1.30E-04	2.90E-04	3.00E-04	1.70E-04	1.50E-04	7.70E-06	6.60E-06	3.10E-05	5.80E-05	5.90E-05	2.70E-05	2.30E-05	4.70E-06	6.80E-06	6.00E-06	5.10E-02
6.0E+01	3.20E-03	6.80E-04	1.30E-03	7.40E-04	1.50E-04	3.90E-04	2.60E-04	4.30E-05	3.10E-05	4.00E-05	1.10E-04	7.20E-05	1.30E-05	9.70E-06	2.00E-07	1.50E-07	8.80E-06	2.20E-05	1.40E-05	2.10E-06	1.50E-06	1.30E-06	2.60E-06	1.50E-06	1.70E-02
1.0E+02	1.10E-03	2.80E-04	1.50E-04	5.10E-05	7.20E-05	4.30E-05	1.70E-05	9.90E-07	5.50E-07	1.90E-05	1.20E-05	4.50E-06	3.00E-07	1.60E-07	1.40E-09	8.80E-10	4.20E-06	2.40E-06	9.00E-07	4.60E-08	2.50E-08	6.30E-07	2.80E-07	9.10E-08	3.70E-03

E[keV]: 9.84E+01 1.80E+01 1.74E+01 1.46E+01 4.48E+00 4.16E+00 3.54E+00 3.02E+00 2.89E+00 1.10E+00 9.29E-01 7.68E-01 5.67E-01 5.41E-01 2.38E-01 2.38E-01 2.14E-01 1.64E-01 1.27E-01 4.80E-02 4.80E-02 2.60E-02 0.00E+00 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	Total
0.0E+00	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.74E-01	5.39E-01	6.45E-01	8.10E-01	1.07E+00	1.23E+00	1.59E+00	1.85E+00	2.26E+00	2.58E+00	3.02E+00	3.59E+00	3.97E+00	4.79E+00	5.50E+00	6.61E+00	8.18E+00	9.28E+00	1.19E+01	1.19E+01
5.0E-02	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.74E-01	5.39E-01	6.45E-01	8.10E-01	1.07E+00	1.23E+00	1.59E+00	1.85E+00	2.26E+00	2.58E+00	3.02E+00	3.59E+00	3.96E+00	4.78E+00	5.50E+00	6.61E+00	8.16E+00	9.26E+00	1.18E+01	1.18E+01
1.0E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.74E-01	5.39E-01	6.45E-01	8.10E-01	1.07E+00	1.23E+00	1.59E+00	1.85E+00	2.26E+00	2.58E+00	3.02E+00	3.59E+00	3.96E+00	4.78E+00	5.50E+00	6.61E+00	8.12E+00	9.22E+00	1.18E+01	1.18E+01
1.5E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.74E-01	5.39E-01	6.45E-01	8.10E-01	1.07E+00	1.23E+00	1.59E+00	1.85E+00	2.26E+00	2.58E+00	3.02E+00	3.58E+00	3.96E+00	4.78E+00	5.49E+00	6.60E+00	8.07E+00	9.17E+00	1.17E+01	1.17E+01
2.0E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.74E-01	5.39E-01	6.45E-01	8.10E-01	1.07E+00	1.23E+00	1.59E+00	1.85E+00	2.26E+00	2.58E+00	3.02E+00	3.58E+00	3.95E+00	4.77E+00	5.49E+00	6.60E+00	7.99E+00	9.09E+00	1.16E+01	1.16E+01
3.0E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.73E-01	5.39E-01	6.45E-01	8.09E-01	1.07E+00	1.23E+00	1.59E+00	1.85E+00	2.26E+00	2.58E+00	3.02E+00	3.57E+00	3.94E+00	4.76E+00	5.48E+00	6.59E+00	7.79E+00	8.86E+00	1.13E+01	1.13E+01
4.0E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.73E-01	5.38E-01	6.45E-01	8.09E-01	1.07E+00	1.23E+00	1.58E+00	1.85E+00	2.25E+00	2.58E+00	3.02E+00	3.55E+00	3.92E+00	4.74E+00	5.46E+00	6.57E+00	7.56E+00	8.57E+00	1.08E+01	1.08E+01
5.0E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.73E-01	5.38E-01	6.45E-01	8.09E-01	1.06E+00	1.23E+00	1.58E+00	1.85E+00	2.25E+00	2.58E+00	3.02E+00	3.53E+00	3.90E+00	4.72E+00	5.43E+00	6.54E+00	7.31E+00	8.24E+00	1.02E+01	1.02E+01
6.0E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.98E-01	3.73E-01	5.38E-01	6.44E-01	8.09E-01	1.06E+00	1.22E+00	1.58E+00	1.84E+00	2.25E+00	2.57E+00	3.01E+00	3.50E+00	3.87E+00	4.68E+00	5.40E+00	6.51E+00	7.08E+00	7.89E+00	9.47E+00	9.47E+00
7.0E-01	1.65E-02	7.53E-02	1.04E-01	1.70E-01	2.97E-01	3.73E-01	5.38E-01	6.44E-01	8.08E-01	1.06E+00	1.22E+00	1.57E+00	1.84E+00	2.25E+00	2.57E+00	3.01E+00	3.47E+00	3.84E+00	4.64E+00	5.36E+00	6.47E+00	6.88E+00	7.56E+00	8.79E+00	8.79E+00
8.0E-01	1.65E-02	7.51E-02	1.03E-01	1.69E-01	2.97E-01	3.72E-01	5.37E-01	6.43E-01	8.08E-01	1.05E+00	1.21E+00	1.57E+00	1.83E+00	2.24E+00	2.57E+00	3.01E+00	3.44E+00	3.80E+00	4.60E+00	5.31E+00	6.42E+00	6.71E+00	7.25E+00	8.17E+00	8.17E+00
9.0E-01	1.65E-02	7.51E-02	1.03E-01	1.69E-01	2.96E-01	3.71E-01	5.36E-01	6.42E-01	8.07E-01	1.04E+00	1.21E+00	1.56E+00	1.82E+00	2.23E+00	2.56E+00	3.00E+00	3.37E+00	3.72E+00	4.49E+00	5.19E+00	6.28E+00	6.43E+00	6.75E+00	7.21E+00	7.21E+00
1.0E+00	1.65E-02	7.51E-02	1.03E-01	1.69E-01	2.95E-01	3.70E-01	5.35E-01	6.41E-01	8.06E-01	1.03E+00	1.20E+00	1.55E+00	1.81E+00	2.22E+00	2.55E+00	2.99E+00	3.30E+00	3.64E+00	4.36E+00	5.05E+00	6.10E+00	6.20E+00	6.37E+00	6.59E+00	6.58E+00
1.2E+00	1.65E-02	7.49E-02	1.03E-01	1.69E-01	2.93E-01	3.68E-01	5.33E-01	6.40E-01	8.04E-01	1.02E+00	1.18E+00	1.53E+00	1.80E+00	2.21E+00	2.53E+00	2.97E+00	3.22E+00	3.54E+00	4.20E+00	4.86E+00	5.87E+00	5.96E+00	6.05E+00	6.16E+00	6.16E+00
1.4E+00	1.65E-02	7.47E-02	1.03E-01	1.69E-01	2.91E-01	3.67E-01	5.31E-01	6.38E-01	8.02E-01	1.01E+00	1.17E+00	1.52E+00	1.78E+00	2.19E+00	2.51E+00	2.95E+00	3.15E+00	3.45E+00	4.04E+00	4.66E+00	5.59E+00	5.69E+00	5.74E+00	5.81E+00	5.81E+00
1.6E+00	1.65E-02	7.47E-02	1.03E-01	1.69E-01	2.91E-01	3.67E-01	5.31E-01	6.38E-01	8.02E-01	1.01E+00	1.17E+00	1.52E+00	1.78E+00	2.19E+00	2.51E+00	2.95E+00	3.15E+00	3.45E+00	4.04E+00	4.66E+00	5.59E+00	5.69E+00	5.74E+00	5.81E+00	5.81E+00
1.8E+00	1.65E-02	7.47E-02	1.03E-01	1.69E-01	2.90E-01	3.65E-01	5.30E-01	6.36E-01	8.00E-01	9.94E-01	1.15E+00	1.50E+00	1.76E+00	2.17E+00	2.49E+00	2.93E+00	3.09E+00	3.35E+00	3.87E+00	4.44E+00	5.29E+00	5.38E+00	5.42E+00	5.49E+00	5.49E+00
2.0E+00	1.64E-02	7.44E-02	1.03E-01	1.69E-01	2.88E-01	3.63E-01	5.28E-01	6.34E-01	7.98E-01	9.79E-01	1.14E+00	1.48E+00	1.74E+00	2.15E+00	2.47E+00	2.91E+00	3.03E+00	3.26E+00	3.70E+00	4.21E+00	4.97E+00	5.05E+00	5.09E+00	5.15E+00	5.15E+00
2.4E+00	1.64E-02	7.40E-02	1.02E-01	1.68E-01	2.83E-01	3.58E-01	5.22E-01	6.29E-01	7.93E-01	9.48E-01	1.10E+00	1.43E+00	1.69E+00	2.09E+00	2.42E+00	2.86E+00	2.94E+00	3.10E+00	3.39E+00	3.78E+00	4.35E+00	4.40E+00	4.43E+00	4.49E+00	4.49E+00
3.0E+00	1.64E-02	7.34E-02	1.02E-01	1.67E-01	2.75E-01	3.50E-01	5.13E-01	6.20E-01	7.84E-01	9.02E-01	1.05E+00	1.34E+00	1.60E+00	2.00E+00	2.32E+00	2.75E+00	2.81E+00	2.90E+00	3.04E+00	3.26E+00	3.57E+00	3.59E+00	3.61E+00	3.65E+00	3.65E+00
4.0E+00	1.64E-02	7.20E-02	1.00E-01	1.66E-01	2.59E-01	3.33E-01	4.93E-01	5.99E-01	7.63E-01	8.31E-01	9.48E-01	1.18E+00	1.42E+00	1.78E+00	2.10E+00	2.52E+00	2.57E+00	2.60E+00	2.65E+00	2.72E+00	2.81E+00	2.82E+00	2.83E+00	2.84E+00	2.84E+00
5.0E+00	1.63E-02	7.01E-02	9.85E-02	1.64E-01	2.42E-01	3.14E-01	4.69E-01	5.75E-01	7.38E-01	7.78E-01	8.65E-01	1.02E+00	1.23E+00	1.54E+00	1.83E+00	2.22E+00	2.26E+00	2.28E+00	2.33E+00	2.36E+00	2.39E+00	2.40E+00	2.40E+00	2.41E+00	2.41E+00
6.0E+00	1.63E-02	6.79E-02	9.63E-02	1.62E-01	2.25E-01	2.94E-01	4.39E-01	5.44E-01	7.07E-01	7.36E-01	7.93E-01	8.90E-01	1.05E+00	1.29E+00	1.55E+00	1.90E+00	1.92E+00	1.94E+00	1.98E+00	2.00E+00	2.03E+00	2.04E+00	2.04E+00	2.05E+00	2.05E+00
7.0E+00	1.62E-02	6.56E-02	9.38E-02	1.59E-01	2.08E-01	2.73E-01	4.07E-01	5.11E-01	6.71E-01	6.98E-01	7.33E-01	7.89E-01	9.09E-01	1.08E+00	1.30E+00	1.59E+00	1.60E+00	1.62E+00	1.65E+00	1.67E+00	1.70E+00	1.70E+00	1.70E+00	1.71E+00	1.71E+00
8.0E+00	1.61E-02	6.29E-02	9.11E-02	1.56E-01	1.94E-01	2.53E-01	3.74E-01	4.76E-01	6.33E-01	6.59E-01	6.81E-01	7.15E-01	7.97E-01	9.13E-01	1.09E+00	1.33E+00	1.34E+00	1.35E+00	1.36E+00	1.38E+00	1.40E+00	1.40E+00	1.41E+00	1.41E+00	1.41E+00
1.0E+01	1.60E-02	5.80E-02	8.60E-02	1.50E-01	1.72E-01	2.20E-01	3.08E-01	4.04E-01	5.48E-01	5.70E-01	5.82E-01	6.06E-01	6.40E-01	6.86E-01	8.00E-01	9.44E-01	9.50E-01	9.53E-01	9.59E-01	9.67E-01	9.78E-01	9.79E-01	9.79E-01	9.80E-01	9.80E-01
1.5E+01	1.54E-02	4.14E-02	6.74E-02	1.27E-01	1.37E-01	1.56E-01	1.86E-01	2.54E-01	3.56E-01	3.61E-01	3.70E-01	3.87E-01	3.96E-01	4.11E-01	4.39E-01	4.74E-01	4.76E-01	4.78E-01	4.82E-01	4.83E-01	4.85E-01	4.85E-01	4.85E-01	4.86E-01	4.80E-01
2.0E+01	1.46E-02	3.00E-02	5.40E-02	1.02E-01	1.11E-01	1.17E-01	1.27E-01	1.66E-01	2.22E-01	2.24E-01	2.28E-01	2.32E-01	2.41E-01	2.54E-01	2.60E-01	2.68E-01	2.69E-01	2.70E-01	2.71E-01	2.72E-01	2.74E-01	2.74E-01	2.74E-01	2.74E-01	2.70E-01
3.0E+01	1.26E-02	1.66E-02	3.18E-02	5.98E-02	6.32E-02	6.60E-02	7.28E-02	8.24E-02	9.50E-02	9.63E-02	9.69E-02	9.85E-02	1.01E-01	1.05E-01	1.06E-01	1.06E-01	1.07E-01	1.07E-01	1.07E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01	1.10E-01
4.0E+01	1.04E-02	1.20E-02	2.08E-02	3.44E-02	3.51E-02	3.75E-02	4.19E-02	4.42E-02	4.69E-02	4.72E-02	4.78E-02	4.90E-02	4.96E-02	5.05E-02	5.06E-02	5.06E-02	5.07E-02	5.08E-02	5.11E-02	5.12E-02	5.13E-02	5.13E-02	5.13E-02	5.13E-02	5.10E-02
6.0E+01	6.40E-03	7.76E-03	1.04E-02	1.33E-02	1.36E-02	1.44E-02	1.54E-02	1.56E-02	1.58E-02	1.59E-02	1.61E-02	1.64E-02	1.64E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.70E-02
1.0E+02	2.20E-03	2.76E-03	3.06E-03	3.26E-03	3.41E-03	3.49E-03	3.56E-03	3.57E-03	3.57E-03	3.61E-03	3.63E-03	3.65E-03	3.65E-03	3.65E-03	3.65E-03	3.66E-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Q

Z=87

Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(1)	Total
0.0E+00	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.34E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.27E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.75E-01	1.81E-01	1.99E-01	1.72E-01	1.77E-01	7.14E-01	4.96E-01	5.71E-01	2.65E+00	1.38E+01
5.0E-02	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.34E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.27E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.74E-01	1.81E-01	1.99E-01	1.72E-01	1.77E-01	7.09E-01	4.96E-01	5.71E-01	2.47E+00	1.36E+01
1.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.33E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.27E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.73E-01	1.81E-01	1.99E-01	1.72E-01	1.77E-01	6.96E-01	4.96E-01	5.70E-01	2.01E+00	1.31E+01
1.5E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.33E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.27E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.72E-01	1.81E-01	1.99E-01	1.72E-01	1.77E-01	6.75E-01	4.96E-01	5.69E-01	1.44E+00	1.25E+01
2.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.33E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.27E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.70E-01	1.81E-01	1.99E-01	1.72E-01	1.77E-01	6.46E-01	4.94E-01	5.66E-01	9.09E-01	1.19E+01
3.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.32E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.26E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.65E-01	1.80E-01	1.98E-01	1.72E-01	1.77E-01	5.72E-01	4.86E-01	5.51E-01	2.74E-01	1.10E+01
4.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.32E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.25E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.58E-01	1.80E-01	1.98E-01	1.72E-01	1.77E-01	4.83E-01	4.68E-01	5.18E-01	9.52E-02	1.04E+01
5.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.31E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.24E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.48E-01	1.80E-01	1.98E-01	1.72E-01	1.77E-01	3.90E-01	4.37E-01	4.68E-01	7.54E-02	9.95E+00
6.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.29E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.23E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.38E-01	1.79E-01	1.97E-01	1.71E-01	1.77E-01	3.02E-01	3.95E-01	4.04E-01	7.32E-02	9.41E+00
7.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.28E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.22E-01	7.98E-02	8.71E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.26E-01	1.78E-01	1.95E-01	1.71E-01	1.77E-01	2.26E-01	3.45E-01	3.33E-01	6.17E-02	8.82E+00
8.0E-01	8.09E-03	2.89E-02	1.40E-02	1.62E-02	6.26E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.20E-01	7.97E-02	8.70E-02	6.48E-02	6.65E-02	5.30E-02	5.37E-02	2.13E-01	1.77E-01	1.93E-01	1.71E-01	1.76E-01	1.65E-01	2.91E-01	2.64E-01	4.58E-02	8.25E+00
1.0E+00	8.09E-03	2.88E-02	1.40E-02	1.62E-02	6.21E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.16E-01	7.96E-02	8.69E-02	6.47E-02	6.65E-02	5.30E-02	5.37E-02	1.85E-01	1.73E-01	1.87E-01	1.69E-01	1.74E-01	8.83E-02	1.87E-01	1.48E-01	2.00E-02	7.28E+00
1.2E+00	8.09E-03	2.88E-02	1.40E-02	1.62E-02	6.16E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.12E-01	7.95E-02	8.66E-02	6.47E-02	6.65E-02	5.30E-02	5.37E-02	1.56E-01	1.66E-01	1.77E-01	1.66E-01	1.70E-01	5.67E-02	1.08E-01	7.48E-02	7.94E-03	6.60E+00
1.4E+00	8.09E-03	2.87E-02	1.40E-02	1.62E-02	6.10E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.07E-01	7.92E-02	8.62E-02	6.47E-02	6.64E-02	5.30E-02	5.37E-02	1.28E-01	1.57E-01	1.63E-01	1.60E-01	1.63E-01	4.88E-02	5.87E-02	3.80E-02	4.03E-03	6.13E+00
1.6E+00	8.09E-03	2.87E-02	1.40E-02	1.62E-02	6.03E-02	3.70E-02	4.07E-02	2.62E-02	2.70E-02	1.02E-01	7.88E-02	8.56E-02	6.47E-02	6.64E-02	5.30E-02	5.37E-02	1.03E-01	1.45E-01	1.48E-01	1.52E-01	1.54E-01	4.83E-02	3.31E-02	2.35E-02	3.26E-03	5.78E+00
1.8E+00	8.09E-03	2.86E-02	1.40E-02	1.62E-02	5.95E-02	3.70E-02	4.06E-02	2.62E-02	2.70E-02	9.59E-02	7.83E-02	8.48E-02	6.46E-02	6.64E-02	5.30E-02	5.37E-02	8.09E-02	1.31E-01	1.30E-01	1.41E-01	1.42E-01	4.70E-02	2.24E-02	1.95E-02	3.22E-03	5.46E+00
2.0E+00	8.08E-03	2.85E-02	1.40E-02	1.62E-02	5.86E-02	3.69E-02	4.06E-02	2.62E-02	2.70E-02	8.99E-02	7.76E-02	8.37E-02	6.46E-02	6.63E-02	5.29E-02	5.36E-02	6.33E-02	1.16E-01	1.11E-01	1.29E-01	1.27E-01	4.27E-02	1.92E-02	1.91E-02	3.09E-03	5.15E+00
2.4E+00	8.08E-03	2.84E-02	1.40E-02	1.62E-02	5.66E-02	3.69E-02	4.05E-02	2.62E-02	2.70E-02	7.74E-02	7.55E-02	8.08E-02	6.42E-02	6.58E-02	5.29E-02	5.36E-02	4.02E-02	8.60E-02	7.61E-02	1.01E-01	9.82E-02	2.86E-02	1.87E-02	1.78E-02	2.23E-03	4.53E+00
3.0E+00	8.07E-03	2.80E-02	1.40E-02	1.62E-02	5.31E-02	3.67E-02	4.03E-02	2.62E-02	2.70E-02	5.92E-02	7.08E-02	7.41E-02	6.32E-02	6.47E-02	5.26E-02	5.33E-02	2.77E-02	4.75E-02	3.76E-02	6.03E-02	5.67E-02	1.13E-02	1.44E-02	1.09E-02	8.93E-04	3.69E+00
4.0E+00	8.05E-03	2.74E-02	1.40E-02	1.62E-02	4.64E-02	3.63E-02	3.95E-02	2.62E-02	2.70E-02	3.48E-02	5.88E-02	5.82E-02	5.90E-02	5.99E-02	5.11E-02	5.17E-02	2.62E-02	1.66E-02	1.43E-02	1.96E-02	1.74E-02	4.68E-03	4.73E-03	2.00E-03	2.98E-04	2.85E+00
5.0E+00	8.03E-03	2.65E-02	1.40E-02	1.62E-02	3.90E-02	3.53E-02	3.82E-02	2.61E-02	2.69E-02	2.04E-02	4.39E-02	4.03E-02	5.14E-02	5.15E-02	4.79E-02	4.83E-02	1.99E-02	1.16E-02	1.26E-02	7.03E-03	6.54E-03	4.30E-03	1.74E-03	1.53E-03	2.75E-04	2.41E+00
6.0E+00	8.00E-03	2.55E-02	1.39E-02	1.62E-02	3.17E-02	3.39E-02	3.61E-02	2.59E-02	2.67E-02	1.44E-02	2.96E-02	2.50E-02	4.13E-02	4.07E-02	4.29E-02	4.30E-02	1.10E-02	1.13E-02	1.12E-02	5.29E-03	5.35E-03	2.69E-03	1.55E-03	1.46E-03	1.76E-04	2.06E+00
7.0E+00	7.97E-03	2.44E-02	1.39E-02	1.61E-02	2.50E-02	3.20E-02	3.33E-02	2.57E-02	2.64E-02	1.31E-02	1.85E-02	1.46E-02	3.08E-02	2.97E-02	3.68E-02	3.67E-02	5.40E-03	9.12E-03	7.67E-03	5.19E-03	5.18E-03	1.27E-03	1.38E-03	1.08E-03	8.37E-05	1.72E+00
8.0E+00	7.93E-03	2.32E-02	1.39E-02	1.60E-02	1.92E-02	2.96E-02	3.00E-02	2.52E-02	2.59E-02	1.30E-02	1.13E-02	9.04E-03	2.14E-02	2.02E-02	3.05E-02	3.02E-02	3.40E-03	6.04E-03	4.38E-03	4.50E-03	4.33E-03	6.55E-04	9.74E-04	6.39E-04	4.20E-05	1.43E+00
1.0E+01	7.80E-03	2.10E-02	1.40E-02	1.60E-02	1.10E-02	2.40E-02	2.30E-02	2.40E-02	2.40E-02	1.10E-02	5.90E-03	6.10E-03	9.00E-03	8.20E-03	1.90E-02	1.90E-02	3.00E-03	2.00E-03	1.50E-03	2.30E-03	2.10E-03	5.10E-04	3.20E-04	2.00E-04	3.20E-05	1.00E+00
1.5E+01	7.50E-03	1.40E-02	1.30E-02	1.40E-02	4.90E-03	9.90E-03	7.70E-03	1.70E-02	1.70E-02	2.60E-03	4.70E-03	4.30E-03	2.40E-03	2.50E-03	5.00E-03	4.70E-03	8.80E-04	1.00E-03	1.00E-03	3.70E-04	3.60E-04	1.60E-04	1.40E-04	1.20E-04	1.00E-05	4.90E-01
2.0E+01	7.20E-03	7.90E-03	1.10E-02	1.20E-02	4.70E-03	3.20E-03	2.40E-03	9.90E-03	9.50E-03	1.30E-03	1.90E-03	1.30E-03	2.20E-03	2.20E-03	1.20E-03	1.10E-03	2.90E-04	4.80E-04	3.20E-04	3.20E-04	3.20E-04	4.80E-06	6.70E-05	4.00E-05	3.00E-06	2.80E-01
3.0E+01	6.20E-03	2.10E-03	7.70E-03	7.10E-03	1.80E-03	1.40E-03	1.70E-03	2.50E-03	2.20E-03	6.80E-04	3.20E-04	4.00E-04	7.60E-04	6.90E-04	8.50E-05	7.70E-05	1.70E-04	6.70E-05	7.90E-05	1.20E-04	1.10E-04	2.60E-05	9.10E-06	9.50E-06	1.70E-06	1.10E-01
4.0E+01	5.10E-03	8.00E-04	4.50E-03	3.50E-03	3.90E-04	1.20E-03	1.10E-03	6.00E-04	5.00E-04	1.40E-04	2.90E-04	3.10E-04	1.90E-04	1.60E-04	8.80E-06	7.60E-06	3.50E-05	6.30E-05	3.30E-05	2.60E-05	1.50E-05	3.80E-06	8.10E-06	7.50E-06	3.60E-07	5.30E-02
6.0E+01	3.20E-03	6.80E-04	1.30E-03	7.80E-04	1.50E-04	4.10E-04	2.70E-04	4.70E-05	3.40E-05	3.90E-05	1.10E-04	7.60E-05	1.50E-05	1.10E-05	2.30E-07	1.80E-07	8.80E-06	2.40E-05	1.60E-05	2.40E-06	1.70E-06	1.40E-06	3.20E-06	1.90E-06	9.00E-08	1.70E-02
1.0E+02	1.20E-03	2.90E-04	1.60E-04	5.50E-05	7.40E-05	4.70E-05	1.80E-05	1.10E-06	6.10E-07	2.00E-05	1.30E-05	4.90E-06	3.40E-07	1.80E-07	1.60E-09	1.00E-09	4.50E-06	2.70E-06	1.00E-06	5.50E-08	3.00E-08	7.40E-07	3.60E-07	1.20E-07	4.60E-08	3.90E-03
E[keV]:	1.01E+02	1.86E+01	1.79E+01	1.50E+01	4.65E+00	4.33E+00	3.66E+00	3.14E+00	3.00E+00	1.15E+00	9.80E-01	8.10E-01	6.03E-01	5.77E-01	2.68E-01	2.68E-01	2.34E-01	1.82E-01	1.40E-01	5.80E-02	5.80E-02	3.40E-02	0.00E+00	0.00E+00	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(1)	Total
0.0E+00	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.94E-01	3.68E-01	5.30E-01	6.35E-01	7.97E-01	1.05E+00	1.21E+00	1.56E+00	1.82E+00	2.22E+00	2.54E+00	2.96E+00	3.51E+00	3.88E+00	4.67E+00	5.36E+00	6.42E+00	7.85E+00	8.84E+00	1.11E+01	1.38E+01	1.38E+01
5.0E-02	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.94E-01	3.68E-01	5.30E-01	6.35E-01	7.97E-01	1.05E+00	1.21E+00	1.56E+00	1.82E+00	2.22E+00	2.54E+00	2.96E+00	3.51E+00	3.87E+00	4.67E+00	5.36E+00	6.42E+00	7.84E+00	8.83E+00	1.11E+01	1.36E+01	1.36E+01
1.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.93E-01	3.67E-01	5.30E-01	6.35E-01	7.97E-01	1.05E+00	1.21E+00	1.56E+00	1.82E+00	2.22E+00	2.54E+00	2.96E+00	3.51E+00	3.87E+00	4.67E+00	5.36E+00	6.42E+00	7.81E+00	8.80E+00	1.11E+01	1.31E+01	1.31E+01
1.5E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.93E-01	3.67E-01	5.30E-01	6.35E-01	7.97E-01	1.05E+00	1.21E+00	1.56E+00	1.82E+00	2.22E+00	2.54E+00	2.96E+00	3.51E+00	3.87E+00	4.67E+00	5.35E+00	6.42E+00	7.77E+00	8.76E+00	1.10E+01	1.25E+01	1.25E+01
2.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.93E-01	3.67E-01	5.30E-01	6.35E-01	7.97E-01	1.05E+00	1.21E+00	1.56E+00	1.82E+00	2.22E+00	2.54E+00	2.96E+00	3.50E+00	3.87E+00	4.66E+00	5.35E+00	6.41E+00	7.70E+00	8.69E+00	1.10E+01	1.19E+01	1.19E+01
3.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.93E-01	3.67E-01	5.30E-01	6.35E-01	7.97E-01	1.05E+00	1.21E+00	1.56E+00	1.82E+00	2.21E+00	2.53E+00	2.96E+00	3.49E+00	3.85E+00	4.64E+00	5.33E+00	6.39E+00	7.54E+00	8.51E+00	1.07E+01	1.10E+01	1.10E+01
4.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.93E-01	3.67E-01	5.30E-01	6.35E-01	7.97E-01	1.05E+00	1.21E+00	1.55E+00	1.81E+00	2.21E+00	2.53E+00	2.96E+00	3.48E+00	3.84E+00	4.63E+00	5.32E+00	6.38E+00	7.34E+00	8.28E+00	1.04E+01	1.04E+01	1.04E+01
5.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.93E-01	3.67E-01	5.30E-01	6.35E-01	7.97E-01	1.04E+00	1.20E+00	1.55E+00	1.81E+00	2.21E+00	2.53E+00	2.96E+00	3.45E+00	3.81E+00	4.61E+00	5.29E+00	6.36E+00	7.14E+00	8.01E+00	9.88E+00	9.96E+00	9.95E+00
6.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.93E-01	3.67E-01	5.29E-01	6.34E-01	7.96E-01	1.04E+00	1.20E+00	1.55E+00	1.81E+00	2.21E+00	2.53E+00	2.96E+00	3.43E+00	3.79E+00	4.58E+00	5.26E+00	6.32E+00	6.93E+00	7.72E+00	9.33E+00	9.41E+00	9.41E+00
7.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.92E-01	3.66E-01	5.29E-01	6.34E-01	7.96E-01	1.04E+00	1.20E+00	1.55E+00	1.81E+00	2.21E+00	2.52E+00	2.95E+00	3.41E+00	3.76E+00	4.54E+00	5.23E+00	6.29E+00	6.74E+00	7.43E+00	8.76E+00	8.82E+00	8.82E+00
8.0E-01	1.62E-02	7.40E-02	1.02E-01	1.67E-01	2.92E-01	3.66E-01	5.29E-01	6.34E-01	7.96E-01	1.04E+00	1.19E+00	1.54E+00	1.80E+00	2.20E+00	2.52E+00	2.95E+00	3.37E+00	3.73E+00	4.50E+00	5.18E+00	6.24E+00	6.57E+00	7.15E+00	8.21E+00	8.25E+00	8.25E+00
1.0E+00	1.62E-02	7.38E-02	1.02E-01	1.67E-01	2.91E-01	3.65E-01	5.28E-01	6.32E-01	7.94E-01	1.03E+00	1.19E+00	1.53E+00	1.79E+00	2.19E+00	2.51E+00	2.94E+00	3.31E+00	3.65E+00	4.40E+00	5.08E+00	6.12E+00	6.30E+00	6.67E+00	7.27E+00	7.29E+00	7.28E+00
1.2E+00	1.62E-02	7.38E-02	1.02E-01	1.67E-01	2.90E-01	3.64E-01	5.27E-01	6.31E-01	7.93E-01	1.02E+00	1.18E+00	1.52E+00	1.78E+00	2.18E+00	2.50E+00	2.93E+00	3.24E+00	3.57E+00	4.28E+00	4.94E+00	5.96E+00	6.08E+00	6.29E+00	6.59E+00	6.60E+00	6.60E+00
1.4E+00	1.62E-02	7.36E-02	1.02E-01	1.66E-01	2.88E-01	3.62E-01	5.25E-01	6.30E-01	7.92E-01	1.01E+00	1.16E+00	1.51E+00	1.77E+00	2.17E+00	2.48E+00	2.91E+00	3.17E+00	3.48E+00	4.14E+00	4.78E+00	5.75E+00	5.85E+00	5.97E+00	6.12E+00	6.13E+00	6.13E+00
1.6E+00	1.62E-02	7.36E-02	1.02E-01	1.66E-01	2.87E-01	3.61E-01	5.24E-01	6.29E-01	7.91E-01	9.95E-01	1.15E+00	1.49E+00	1.75E+00	2.15E+00	2.47E+00	2.90E+00	3.11E+00	3.40E+00	3.99E+00	4.60E+00	5.52E+00	5.62E+00	5.68E+00	5.78E+00	5.78E+00	5.78E+00
1.8E+00	1.62E-02	7.34E-02	1.01E-01	1.66E-01	2.85E-01	3.59E-01	5.22E-01	6.26E-01	7.88E-01	9.80E-01	1.14E+00	1.48E+00	1.73E+00	2.13E+00	2.45E+00	2.88E+00	3.04E+00	3.30E+00	3.82E+00	4.39E+00	5.24E+00	5.33E+00	5.38E+00	5.46E+00	5.46E+00	5.46E+00
2.0E+00	1.62E-02	7.32E-02	1.01E-01	1.66E-01	2.83E-01	3.57E-01	5.19E-01	6.24E-01	7.86E-01	9.66E-01	1.12E+00	1.46E+00	1.71E+00	2.11E+00	2.43E+00	2.86E+00	2.98E+00	3.22E+00	3.66E+00	4.18E+00	4.94E+00	5.03E+00	5.07E+00	5.15E+00	5.15E+00	5.15E+00
2.4E+00	1.62E-02	7.30E-02	1.01E-01	1.66E-01	2.79E-01	3.53E-01	5.15E-01	6.20E-01	7.82E-01	9.36E-01	1.09E+00	1.41E+00	1.67E+00	2.06E+00	2.38E+00	2.81E+00	2.89E+00	3.06E+00	3.37E+00	3.77E+00	4.36E+00	4.42E+00	4.45E+00	4.52E+00	4.53E+00	4.53E+00
3.0E+00	1.61E-02	7.21E-02	1.00E-01	1.65E-01	2.71E-01	3.45E-01	5.06E-01	6.11E-01	7.73E-01	8.91E-01	1.03E+00	1.33E+00	1.58E+00	1.97E+00	2.29E+00	2.71E+00	2.77E+00	2.86E+00	3.01E+00	3.25E+00	3.59E+00	3.62E+00	3.65E+00	3.69E+00	3.69E+00	3.69E+00
4.0E+00	1.61E-02	7.09E-02	9.89E-02	1.64E-01	2.56E-01	3.29E-01	4.87E-01	5.92E-01	7.54E-01	8.24E-01	9.41E-01	1.17E+00	1.41E+00	1.77E+00	2.08E+00	2.49E+00	2.54E+00	2.58E+00	2.63E+00	2.71E+00	2.82E+00	2.82E+00	2.83E+00	2.85E+00	2.85E+00	2.85E+00
5.0E+00	1.61E-02	6.91E-02	9.71E-02	1.62E-01	2.40E-01	3.10E-01	4.63E-01	5.68E-01	7.29E-01	7.70E-01	8.58E-01	1.02E+00	1.22E+00	1.53E+00	1.82E+00	2.21E+00	2.25E+00	2.27E+00	2.32E+00	2.35E+00	2.39E+00	2.40E+00	2.40E+00	2.41E+00	2.41E+00	2.41E+00
6.0E+00	1.60E-02	6.70E-02	9.48E-02	1.60E-01	2.23E-01	2.91E-01	4.35E-01	5.39E-01	6.99E-01	7.28E-01	7.87E-01	8.87E-01	1.05E+00	1.30E+00	1.55E+00	1.90E+00	1.92E+00	1.94E+00	1.99E+00	2.01E+00	2.04E+00	2.05E+00	2.05E+00	2.05E+00	2.05E+00	2.06E+00
7.0E+00	1.59E-02	6.47E-02	9.25E-02	1.57E-01	2.07E-01	2.71E-01	4.04E-01	5.07E-01	6.65E-01	6.92E-01	7.29E-01	7.87E-01	9.10E-01	1.09E+00	1.31E+00	1.60E+00	1.61E+00	1.63E+00	1.66E+00	1.68E+00	1.71E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00
8.0E+00	1.59E-02	6.23E-02	9.01E-02	1.54E-01	1.92E-01	2.52E-01	3.72E-01	4.72E-01	6.28E-01	6.54E-01	6.76E-01	7.13E-01	7.98E-01	9.19E-01	1.10E+00	1.34E+00	1.35E+00	1.36E+00	1.38E+00	1.40E+00	1.42E+00	1.43E+00	1.43E+00	1.43E+00	1.43E+00	1.43E+00
1.0E+01	1.56E-02	5.76E-02	8.56E-02	1.50E-01	1.72E-01	2.20E-01	3.12E-01	4.08E-01	5.52E-01	5.74E-01	5.85E-01	6.10E-01	6.46E-01	6.95E-01	8.09E-01	9.61E-01	9.67E-01	9.71E-01	9.77E-01	9.86E-01	9.88E-01	9.94E-01	9.96E-01	1.00E+00	1.00E+00	1.00E+00
1.5E+01	1.50E-02	4.30E-02	6.90E-02	1.25E-01	1.35E-01	1.55E-01	1.85E-01	2.53E-01	3.55E-01	3.61E-01	3.70E-01	3.87E-01	3.97E-01	4.12E-01	4.42E-01	4.79E-01	4.81E-01	4.83E-01	4.87E-01	4.89E-01	4.91E-01	4.91E-01	4.92E-01	4.92E-01	4.90E-01	
2.0E+01	1.44E-02	3.02E-02	5.22E-02	1.00E-01	1.10E-01	1.16E-01	1.26E-01	1.65E-01	2.22E-01	2.25E-01	2.29E-01	2.34E-01	2.43E-01	2.56E-01	2.63E-01	2.72E-01	2.72E-01	2.73E-01	2.75E-01	2.76E-01	2.78E-01	2.78E-01	2.78E-01	2.78E-01	2.80E-01	
3.0E+01	1.24E-02	1.66E-02	3.20E-02	6.04E-02	6.40E-02	6.68E-02	7.36E-02	8.36E-02	9.68E-02	9.82E-02	9.88E-02	1.00E-01	1.03E-01	1.08E-01	1.08E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.10E-01	1.11E-01	1.11E-01	1.11E-01	1.11E-01	1.10E-01
4.0E+01	1.02E-02	1.18E-02	2.08E-02	3.48E-02	3.56E-02	3.80E-02	4.24E-02	4.48E-02	4.78E-02	4.81E-02	4.86E-02	4.99E-02	5.06E-02	5.16E-02	5.17E-02	5.17E-02	5.18E-02	5.19E-02	5.22E-02	5.23E-02	5.24E-02	5.24E-02	5.25E-02	5.25E-02	5.25E-02	5.30E-02
6.0E+01	6.40E-03	7.76E-03	1.04E-02	1.35E-02	1.38E-02	1.46E-02	1.57E-02	1.59E-02	1.61E-02	1.62E-02	1.64E-02	1.67E-02	1.67E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.69E-02	1.69E-02	1.69E-02	1.70E-02	1.70E-02	1.70E-02	1.70E-02	1.70E-02	1.70E-02
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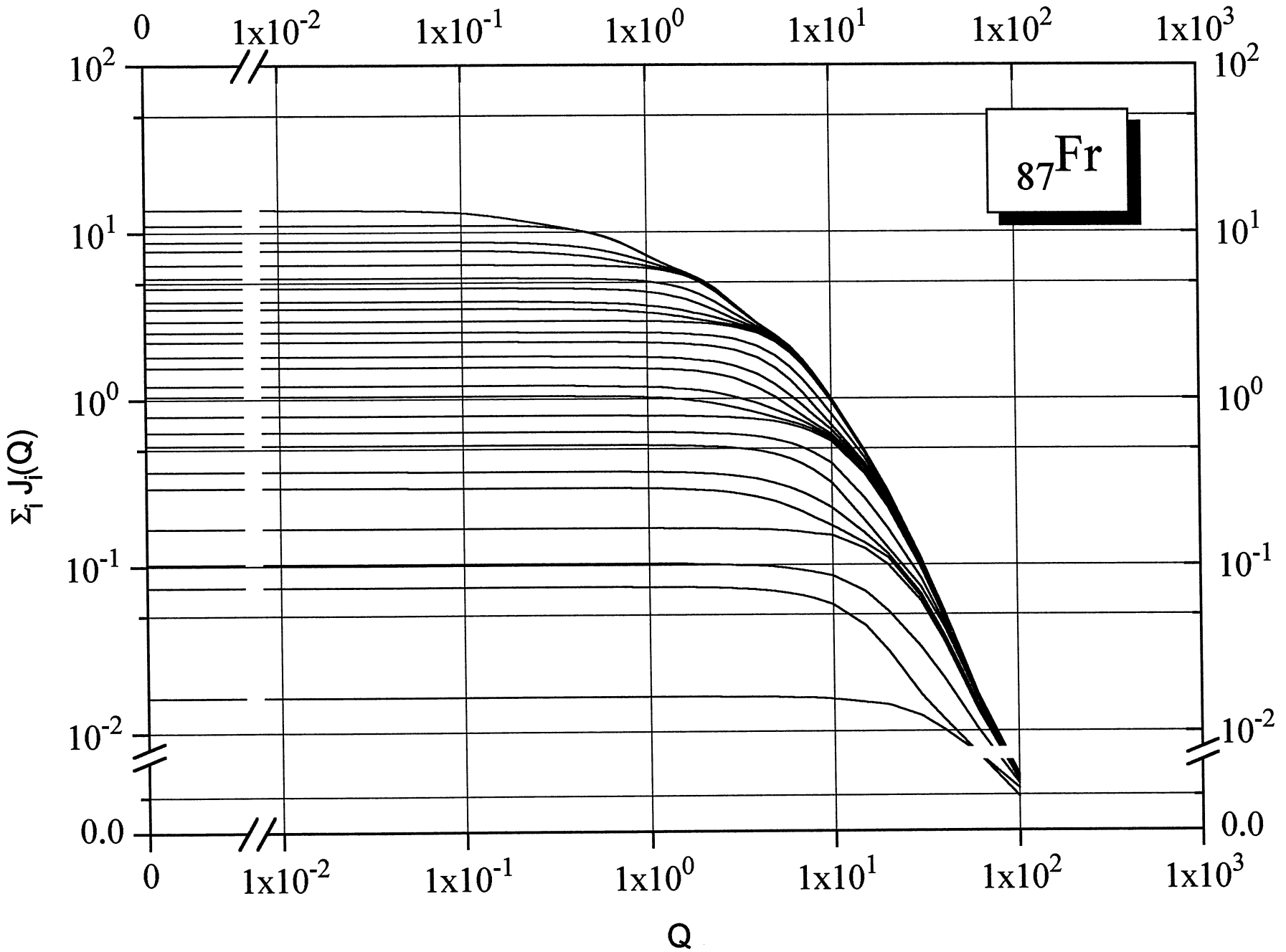
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Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(2)	Total
0.0E+00	7.96E-03	2.85E-02	1.37E-02	1.60E-02	6.23E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.25E-01	7.82E-02	8.56E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.66E-01	1.75E-01	1.92E-01	1.65E-01	1.70E-01	6.57E-01	4.56E-01	5.20E-01	2.19E+00	1.49E+01
5.0E-02	7.96E-03	2.85E-02	1.37E-02	1.60E-02	6.23E-02	3.64E-02	4.01E-02	2.58E-02	2.65E-02	1.25E-01	7.82E-02	8.56E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.66E-01	1.75E-01	1.92E-01	1.65E-01	1.70E-01	6.53E-01	4.56E-01	5.20E-01	2.08E+00	1.47E+01
1.0E-01	7.96E-03	2.85E-02	1.37E-02	1.60E-02	6.23E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.24E-01	7.82E-02	8.56E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.65E-01	1.75E-01	1.92E-01	1.65E-01	1.70E-01	6.43E-01	4.56E-01	5.20E-01	1.79E+00	1.41E+01
1.5E-01	7.96E-03	2.85E-02	1.37E-02	1.60E-02	6.23E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.24E-01	7.82E-02	8.56E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.64E-01	1.75E-01	1.92E-01	1.65E-01	1.70E-01	6.26E-01	4.55E-01	5.19E-01	1.40E+00	1.33E+01
2.0E-01	7.96E-03	2.85E-02	1.37E-02	1.60E-02	6.23E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.24E-01	7.82E-02	8.56E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.62E-01	1.75E-01	1.92E-01	1.65E-01	1.70E-01	6.03E-01	4.54E-01	5.17E-01	1.00E+00	1.24E+01
3.0E-01	7.96E-03	2.85E-02	1.37E-02	1.60E-02	6.22E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.24E-01	7.82E-02	8.56E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.57E-01	1.75E-01	1.92E-01	1.65E-01	1.70E-01	5.42E-01	4.49E-01	5.07E-01	4.07E-01	1.10E+01
4.0E-01	7.96E-03	2.84E-02	1.37E-02	1.60E-02	6.21E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.23E-01	7.82E-02	8.56E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.50E-01	1.75E-01	1.92E-01	1.65E-01	1.70E-01	4.68E-01	4.36E-01	4.84E-01	1.51E-01	1.02E+01
5.0E-01	7.96E-03	2.84E-02	1.37E-02	1.60E-02	6.20E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.22E-01	7.82E-02	8.55E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.42E-01	1.74E-01	1.92E-01	1.65E-01	1.70E-01	3.89E-01	4.14E-01	4.49E-01	8.73E-02	9.75E+00
6.0E-01	7.96E-03	2.84E-02	1.37E-02	1.60E-02	6.19E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.21E-01	7.82E-02	8.55E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.32E-01	1.74E-01	1.91E-01	1.64E-01	1.70E-01	3.11E-01	3.82E-01	3.99E-01	8.20E-02	9.29E+00
7.0E-01	7.96E-03	2.84E-02	1.37E-02	1.60E-02	6.17E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.20E-01	7.82E-02	8.55E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.21E-01	1.73E-01	1.90E-01	1.64E-01	1.69E-01	2.41E-01	3.43E-01	3.41E-01	7.90E-02	8.81E+00
8.0E-01	7.96E-03	2.84E-02	1.37E-02	1.60E-02	6.16E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.18E-01	7.82E-02	8.55E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	2.09E-01	1.72E-01	1.88E-01	1.64E-01	1.69E-01	1.81E-01	2.98E-01	2.82E-01	6.80E-02	8.30E+00
1.0E+00	7.95E-03	2.84E-02	1.37E-02	1.60E-02	6.11E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.15E-01	7.81E-02	8.53E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	1.83E-01	1.68E-01	1.82E-01	1.63E-01	1.68E-01	1.01E-01	2.06E-01	1.72E-01	3.79E-02	7.35E+00
1.2E+00	7.95E-03	2.83E-02	1.37E-02	1.60E-02	6.06E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.10E-01	7.79E-02	8.51E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	1.55E-01	1.62E-01	1.73E-01	1.60E-01	1.64E-01	6.30E-02	1.29E-01	9.46E-02	1.69E-02	6.62E+00
1.4E+00	7.95E-03	2.83E-02	1.37E-02	1.60E-02	6.00E-02	3.64E-02	4.01E-02	2.58E-02	2.66E-02	1.06E-01	7.77E-02	8.47E-02	6.35E-02	6.52E-02	5.17E-02	5.24E-02	1.29E-01	1.54E-01	1.61E-01	1.56E-01	1.59E-01	5.10E-02	7.37E-02	4.99E-02	7.73E-03	6.11E+00
1.6E+00	7.95E-03	2.82E-02	1.37E-02	1.60E-02	5.94E-02	3.63E-02	4.01E-02	2.58E-02	2.66E-02	1.01E-01	7.73E-02	8.42E-02	6.34E-02	6.52E-02	5.17E-02	5.24E-02	1.05E-01	1.43E-01	1.47E-01	1.49E-01	1.51E-01	4.94E-02	4.22E-02	2.93E-02	5.02E-03	5.74E+00
1.8E+00	7.95E-03	2.81E-02	1.37E-02	1.60E-02	5.86E-02	3.63E-02	4.01E-02	2.58E-02	2.66E-02	9.50E-02	7.68E-02	8.34E-02	6.34E-02	6.51E-02	5.17E-02	5.24E-02	8.33E-02	1.31E-01	1.30E-01	1.40E-01	1.41E-01	4.89E-02	2.70E-02	2.22E-02	4.64E-03	5.43E+00
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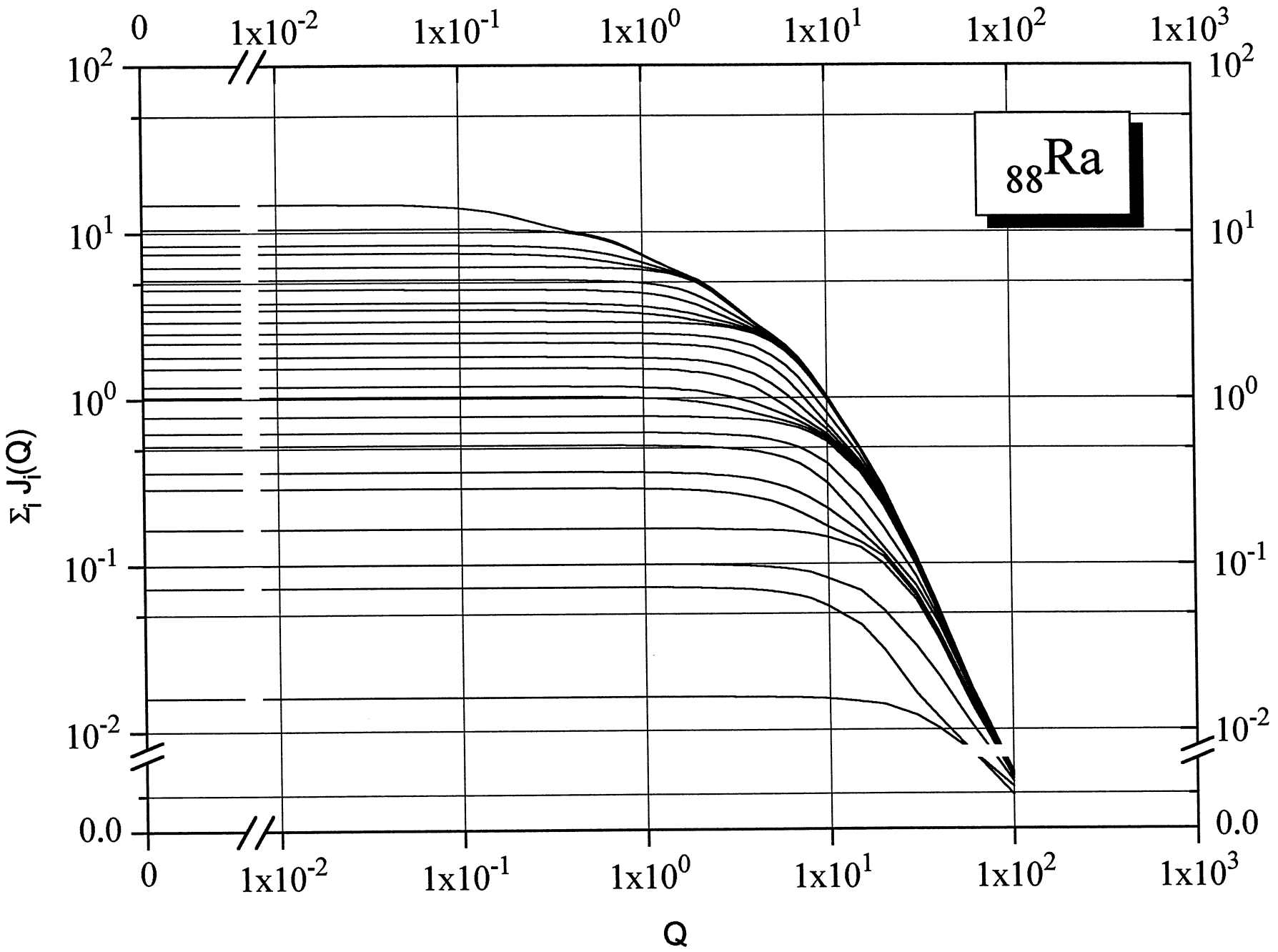
7.0E+00	7.84E-03	2.41E-02	1.37E-02	1.59E-02	2.53E-02	3.17E-02	3.32E-02	2.53E-02	2.61E-02	1.30E-02	1.94E-02	1.53E-02	3.15E-02	3.05E-02	3.71E-02	3.70E-02	5.93E-03	9.55E-03	8.22E-03	5.35E-03	5.38E-03	1.57E-03	1.60E-03	1.32E-03	1.45E-04	1.74E+00
8.0E+00	7.80E-03	2.30E-02	1.36E-02	1.58E-02	1.96E-02	2.94E-02	3.00E-02	2.49E-02	2.56E-02	1.29E-02	1.20E-02	9.42E-03	2.22E-02	2.10E-02	3.10E-02	3.08E-02	3.57E-03	6.55E-03	4.84E-03	4.78E-03	4.63E-03	7.79E-04	1.18E-03	8.10E-04	7.04E-05	1.45E+00
1.0E+01	7.70E-03	2.00E-02	1.30E-02	1.60E-02	1.10E-02	2.40E-02	2.30E-02	2.40E-02	2.40E-02	1.10E-02	6.00E-03	6.10E-03	9.60E-03	8.70E-03	2.00E-02	2.00E-02	3.10E-03	2.30E-03	1.60E-03	2.60E-03	2.30E-03	5.50E-04	4.10E-04	2.50E-04	4.80E-05	1.00E+00
1.5E+01	7.40E-03	1.40E-02	1.30E-02	1.40E-02	4.90E-03	1.00E-02	8.00E-03	1.70E-02	1.70E-02	2.80E-03	4.80E-03	4.40E-03	2.40E-03	2.50E-03	5.30E-03	5.10E-03	9.80E-04	1.10E-03	1.10E-03	3.90E-04	3.80E-04	1.90E-04	1.60E-04	1.50E-04	1.70E-05	5.00E-01
2.0E+01	7.10E-03	8.10E-03	1.10E-02	1.20E-02	4.70E-03	3.30E-03	2.50E-03	1.00E-02	9.70E-03	1.30E-03	2.00E-03	1.40E-03	2.20E-03	2.20E-03	1.30E-03	1.20E-03	3.00E-04	5.30E-04	3.50E-04	3.40E-04	3.40E-04	5.30E-05	8.20E-05	5.00E-05	4.60E-06	2.90E-01
3.0E+01	6.10E-03	2.20E-03	7.70E-03	7.20E-03	1.90E-03	1.30E-03	1.70E-03	2.60E-03	2.30E-03	7.20E-04	3.20E-04	4.00E-04	8.00E-04	7.30E-04	9.60E-05	8.60E-05	1.80E-04	7.00E-05	8.10E-05	1.40E-04	1.20E-04	3.30E-05	1.10E-05	1.10E-05	2.80E-06	1.10E-01
4.0E+01	5.10E-03	8.20E-04	4.60E-03	3.60E-03	4.30E-04	1.20E-03	1.20E-03	6.40E-04	5.30E-04	1.60E-04	2.90E-04	3.10E-04	2.00E-04	1.70E-04	1.00E-05	8.60E-06	3.90E-05	6.10E-05	6.60E-05	3.50E-05	2.90E-05	7.10E-06	9.20E-06	9.00E-06	6.20E-07	5.40E-02
6.0E+01	3.30E-03	6.70E-04	1.40E-03	8.20E-04	1.50E-04	4.30E-04	2.90E-04	5.10E-05	3.70E-05	3.90E-05	1.20E-04	8.10E-05	1.60E-05	1.20E-05	2.70E-07	2.10E-07	8.90E-06	2.50E-05	1.70E-05	2.80E-06	2.00E-06	1.60E-06	3.80E-06	2.40E-06	1.40E-07	1.80E-02
1.0E+02	1.20E-03	3.00E-04	1.70E-04	5.80E-05	7.60E-05	5.10E-05	1.90E-05	1.20E-06	6.80E-07	2.10E-05	1.40E-05	5.30E-06	3.80E-07	2.10E-07	1.90E-09	1.20E-09	4.80E-06	3.00E-06	1.10E-06	6.50E-08	3.50E-08	8.40E-07	4.50E-07	1.50E-07	7.30E-08	4.00E-03
E[keV]:	1.04E+02	1.92E+01	1.85E+01	1.54E+01	4.82E+00	4.49E+00	3.79E+00	3.25E+00	3.11E+00	1.21E+00	1.06E+00	8.79E-01	6.36E-01	6.03E-01	2.99E-01	2.99E-01	2.54E-01	2.00E-01	1.53E-01	6.80E-02	6.80E-02	4.40E-02	1.90E-02	1.90E-02	0.00E+00	

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(2)	Total
0.0E+00	1.59E-02	7.29E-02	1.00E-01	1.64E-01	2.89E-01	3.62E-01	5.22E-01	6.25E-01	7.85E-01	1.03E+00	1.19E+00	1.53E+00	1.79E+00	2.18E+00	2.49E+00	2.91E+00	3.44E+00	3.79E+00	4.56E+00	5.22E+00	6.24E+00	7.55E+00	8.46E+00	1.05E+01	1.49E+01	1.49E+01
5.0E-02	1.59E-02	7.29E-02	1.00E-01	1.64E-01	2.89E-01	3.62E-01	5.22E-01	6.25E-01	7.84E-01	1.03E+00	1.19E+00	1.53E+00	1.79E+00	2.18E+00	2.49E+00	2.91E+00	3.44E+00	3.79E+00	4.56E+00	5.22E+00	6.24E+00	7.54E+00	8.46E+00	1.05E+01	1.47E+01	1.47E+01
1.0E-01	1.59E-02	7.29E-02	1.00E-01	1.64E-01	2.89E-01	3.62E-01	5.22E-01	6.25E-01	7.85E-01	1.03E+00	1.19E+00	1.53E+00	1.79E+00	2.18E+00	2.49E+00	2.91E+00	3.44E+00	3.79E+00	4.55E+00	5.21E+00	6.23E+00	7.52E+00	8.43E+00	1.05E+01	1.41E+01	1.41E+01
1.5E-01	1.59E-02	7.29E-02	1.00E-01	1.64E-01	2.89E-01	3.62E-01	5.22E-01	6.25E-01	7.85E-01	1.03E+00	1.19E+00	1.53E+00	1.79E+00	2.18E+00	2.49E+00	2.91E+00	3.43E+00	3.78E+00	4.55E+00	5.21E+00	6.23E+00	7.48E+00	8.39E+00	1.05E+01	1.33E+01	1.33E+01
2.0E-01	1.59E-02	7.29E-02	1.00E-01	1.64E-01	2.89E-01	3.62E-01	5.22E-01	6.25E-01	7.85E-01	1.03E+00	1.19E+00	1.53E+00	1.79E+00	2.18E+00	2.49E+00	2.91E+00	3.43E+00	3.78E+00	4.55E+00	5.21E+00	6.23E+00	7.43E+00	8.34E+00	1.04E+01	1.24E+01	1.24E+01
3.0E-01	1.59E-02	7.29E-02	1.00E-01	1.64E-01	2.89E-01	3.62E-01	5.22E-01	6.25E-01	7.85E-01	1.03E+00	1.19E+00	1.53E+00	1.79E+00	2.18E+00	2.49E+00	2.91E+00	3.42E+00	3.77E+00	4.54E+00	5.20E+00	6.22E+00	7.30E+00	8.20E+00	1.02E+01	1.10E+01	1.10E+01
4.0E-01	1.59E-02	7.27E-02	1.00E-01	1.64E-01	2.89E-01	3.61E-01	5.22E-01	6.25E-01	7.84E-01	1.03E+00	1.19E+00	1.53E+00	1.78E+00	2.17E+00	2.48E+00	2.90E+00	3.40E+00	3.75E+00	4.52E+00	5.18E+00	6.20E+00	7.14E+00	8.01E+00	9.95E+00	1.02E+01	1.02E+01
5.0E-01	1.59E-02	7.27E-02	1.00E-01	1.64E-01	2.88E-01	3.61E-01	5.21E-01	6.25E-01	7.84E-01	1.03E+00	1.18E+00	1.53E+00	1.78E+00	2.17E+00	2.48E+00	2.90E+00	3.39E+00	3.73E+00	4.50E+00	5.16E+00	6.18E+00	6.96E+00	7.79E+00	9.58E+00	9.75E+00	9.75E+00
6.0E-01	1.59E-02	7.27E-02	1.00E-01	1.64E-01	2.88E-01	3.61E-01	5.21E-01	6.24E-01	7.84E-01	1.03E+00	1.18E+00	1.52E+00	1.78E+00	2.17E+00	2.48E+00	2.90E+00	3.36E+00	3.71E+00	4.47E+00	5.13E+00	6.15E+00	6.77E+00	7.54E+00	9.13E+00	9.30E+00	9.29E+00
7.0E-01	1.59E-02	7.27E-02	1.00E-01	1.64E-01	2.88E-01	3.60E-01	5.21E-01	6.24E-01	7.84E-01	1.02E+00	1.18E+00	1.52E+00	1.78E+00	2.17E+00	2.48E+00	2.90E+00	3.34E+00	3.66E+00	4.44E+00	5.10E+00	6.11E+00	6.60E+00	7.28E+00	8.65E+00	8.80E+00	8.81E+00
8.0E-01	1.59E-02	7.27E-02	1.00E-01	1.64E-01	2.87E-01	3.60E-01	5.21E-01	6.24E-01	7.83E-01	1.02E+00	1.18E+00	1.52E+00	1.77E+00	2.16E+00	2.47E+00	2.89E+00	3.31E+00	3.65E+00	4.41E+00	5.06E+00	6.08E+00	6.44E+00	7.03E+00	8.16E+00	8.30E+00	8.30E+00
1.0E+00	1.59E-02	7.27E-02	1.00E-01	1.64E-01	2.86E-01	3.59E-01	5.20E-01	6.23E-01	7.82E-01	1.01E+00	1.17E+00	1.51E+00	1.76E+00	2.15E+00	2.47E+00	2.88E+00	3.25E+00	3.59E+00	4.31E+00	4.97E+00	5.97E+00	6.18E+00	6.59E+00	7.28E+00	7.35E+00	7.35E+00
1.2E+00	1.59E-02	7.25E-02	9.99E-02	1.64E-01	2.85E-01	3.58E-01	5.18E-01	6.22E-01	7.81E-01	1.00E+00	1.16E+00	1.50E+00	1.75E+00	2.14E+00	2.45E+00	2.87E+00	3.18E+00	3.51E+00	4.20E+00	4.84E+00	5.82E+00	5.95E+00	6.20E+00	6.58E+00	6.62E+00	6.62E+00
1.4E+00	1.59E-02	7.25E-02	9.99E-02	1.64E-01	2.84E-01	3.57E-01	5.17E-01	6.20E-01	7.80E-01	9.92E-01	1.15E+00	1.49E+00	1.74E+00	2.13E+00	2.44E+00	2.86E+00	3.12E+00	3.43E+00	4.07E+00	4.69E+00	5.65E+00	5.75E+00	5.90E+00	6.10E+00	6.11E+00	6.11E+00
1.6E+00	1.59E-02	7.23E-02	9.97E-02	1.64E-01	2.83E-01	3.55E-01	5.16E-01	6.19E-01	7.78E-01	9.80E-01	1.13E+00	1.47E+00	1.73E+00	2.12E+00	2.43E+00	2.85E+00	3.06E+00	3.34E+00	3.93E+00	4.51E+00	5.43E+00	5.52E+00	5.73E+00	5.74E+00	5.74E+00	5.74E+00
1.8E+00	1.59E-02	7.21E-02	9.95E-02	1.64E-01	2.81E-01	3.53E-01	5.14E-01	6.17E-01	7.77E-01	9.67E-01	1.12E+00	1.45E+00	1.71E+00	2.10E+00	2.41E+00	2.83E+00	2.99E+00	3.26E+00	3.78E+00	4.34E+00	5.18E+00	5.28E+00	5.33E+00	5.42E+00	5.43E+00	5.43E+00
2.0E+00	1.59E-02	7.21E-02	9.95E-02	1.64E-01	2.79E-01	3.52E-01	5.12E-01	6.15E-01	7.75E-01	9.53E-01	1.11E+00	1.44E+00	1.69E+00	2.08E+00	2.39E+00	2.81E+00	2.94E+00	3.17E+00	3.63E+00	4.14E+00	4.92E+00	5.01E+00	5.05E+00	5.13E+00	5.14E+00	5.14E+00
2.4E+00	1.59E-02	7.17E-02	9.91E-02	1.63E-01	2.78E-01	3.47E-01	5.07E-01	6.10E-01	7.70E-01	9.24E-01	1.07E+00	1.39E+00	1.64E+00	2.03E+00	2.34E+00	2.76E+00	2.84E+00	3.02E+00	3.34E+00	3.75E+00	4.36E+00	4.42E+00	4.46E+00	4.54E+00	4.55E+00	4.55E+00
3.0E+00	1.59E-02	7.11E-02	9.85E-02	1.62E-01	2.67E-01	3.40E-01	4.98E-01	6.02E-01	7.61E-01	8.81E-01	1.02E+00	1.31E+00	1.56E+00	1.94E+00	2.25E+00	2.67E+00	2.73E+00	2.83E+00	2.99E+00	3.25E+00	3.61E+00	3.64E+00	3.68E+00	3.73E+00	3.73E+00	3.73E+00
4.0E+00	1.58E-02	6.98E-02	9.72E-02	1.61E-01	2.53E-01	3.25E-01	4.81E-01	5.84E-01	7.44E-01	8.15E-01	9.32E-01	1.17E+00	1.40E+00	1.75E+00	2.06E+00	2.46E+00	2.51E+00	2.55E+00	2.61E+00	2.70E+00	2.82E+00	2.83E+00	2.84E+00	2.86E+00	2.86E+00	2.86E+00
5.0E+00	1.58E-02	6.82E-02	9.56E-02	1.60E-01	2.38E-01	3.07E-01	4.58E-01	5.61E-01	7.20E-01	7.62E-01	8.51E-01	1.01E+00	1.22E+00	1.53E+00	1.81E+00	2.19E+00	2.24E+00	2.26E+00	2.31E+00	2.34E+00	2.38E+00	2.39E+00	2.40E+00	2.40E+00	2.40E+00	2.41E+00
6.0E+00	1.57E-02	6.61E-02	9.35E-02	1.58E-01	2.21E-01	2.88E-01	4.32E-01	5.34E-01	6.92E-01	7.21E-01	7.82E-01	8.86E-01	1.05E+00	1.30E+00	1.56E+00	1.90E+00	1.92E+00	1.95E+00	1.99E+00	2.01E+00	2.05E+00	2.05E+00	2.06E+00	2.06E+00	2.06E+00	2.06E+00
7.0E+00	1.57E-02	6.39E-02	9.13E-02	1.55E-01	2.05E-01	2.69E-01	4.02E-01	5.03E-01	6.59E-01	6.85E-01	7.24E-01	7.85E-01	9.11E-01	1.09E+00	1.32E+00	1.61E+00	1.62E+00	1.64E+00	1.68E+00	1.70E+00	1.73E+00	1.73E+00	1.74E+00	1.74E+00	1.74E+00	1.74E+00
8.0E+00	1.56E-02	6.16E-02	8.88E-02	1.52E-01	1.91E-01	2.50E-01	3.70E-01	4.70E-01	6.23E-01	6.49E-01	6.73E-01	7.11E-01	7.99E-01	9.25E-01	1.11E+00	1.36E+00	1.37E+00	1.38E+00	1.40E+00	1.42E+00	1.44E+00	1.45E+00	1.45E+00	1.45E+00	1.45E+00	1.45E+00
1.0E+01	1.54E-02	5.54E-02	8.14E-02	1.45E-01	1.67E-01	2.15E-01	3.07E-01	4.03E-01	5.47E-01	5.69E-01	5.81E-01	6.06E-01	6.44E-01	6.96E-01	8.16E-01	9.76E-01	9.83E-01	9.87E-01	9.94E-01	1.00E+00	1.02E+00	1.02E+00	1.02E+00	1.02E+00	1.00E+00	1.00E+00
1.5E+01	1.48E-02	4.28E-02	6.88E-02	1.25E-01	1.35E-01	1.55E-01	1.87E-01	2.55E-01	3.57E-01	3.62E-01	3.72E-01	3.89E-01	3.99E-01	4.14E-01	4.46E-01	4.87E-01	4.89E-01	4.91E-01	4.95E-01	4.97E-01	4.99E-01	4.99E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01
2.0E+01	1.42E-02	3.04E-02	5.24E-02	1.00E-01	1.10E-01	1.16E-01	1.26E-01	1.66E-01	2.25E-01	2.27E-01	2.31E-01	2.37E-01	2.46E-01	2.59E-01	2.67E-01	2.76E-01	2.77E-01	2.78E-01	2.79E-01	2.81E-01	2.83E-01	2.83E-01	2.83E-01	2.83E-01	2.90E-01	
3.0E+01	1.22E-02	1.66E-02	3.20E-02	6.08E-02	6.46E-02	6.72E-02	7.40E-02	8.44E-02	9.82E-02	9.96E-02	1.00E-01	1.02E-01	1.05E-01	1.09E-01	1.10E-01	1.11E-01	1.11E-01	1.11E-01	1.12E-01	1.12E-01	1.13E-01	1.13E-01	1.13E-01	1.13E-01	1.10E-01	
4.0E+01	1.02E-02	1.18E-02	2.10E-02	3.54E-02	3.63E-02	3.87E-02	4.35E-02	4.61E-02	4.92E-02	4.96E-02	5.01E-02	5.14E-02	5.22E-02	5.32E-02	5.33E-02	5.33E-02	5.34E-02	5.35E-02	5.39E-02	5.39E-02	5.41E-02	5.41E-02	5.41E-02	5.42E-02	5.42E-02	5.40E-02
6.0E+01	6.60E-03	7.94E-03	1.77E-02	1.40E-02	1.43E-02	1.52E-02	1.63E-02	1.65E-02	1.68E-02	1.68E-02	1.71E-02	1.74E-02	1.75E-02	1.75E-02	1.75E-02	1.76E-02	1.76E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02	1.80E-02	
1.0E+02	2.40E-03	3.00E-03	3.34E-03	3.57E-03	3.72E-03	3.83E-03	3.90E-03	3.91E-03	3.91E-03	3.95E-03	3.98E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.01E-03	4.02E-03	4.02E-03	4.03E-03	4.03E-03	4.03E-03	4.03E-03	4.03E-03	4.00E-03	
E[keV]:	1.04E+02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$\Sigma_i J_i(Q)$
Q
0
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10^{-2}
0.0

Z=89

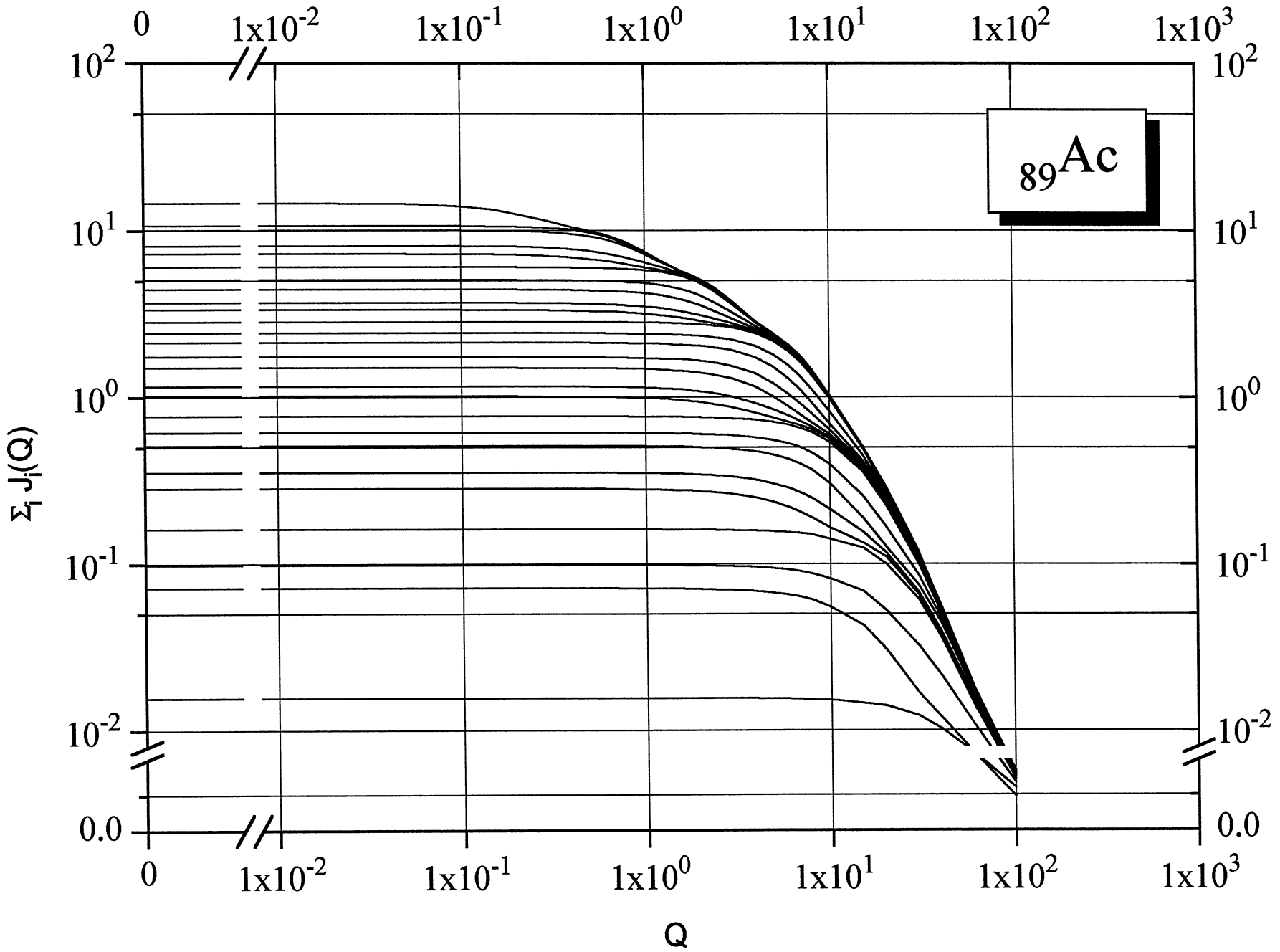
Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(1)	6d-(2)	Total
0.0E+00	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.13E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.22E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.58E-01	1.69E-01	1.87E-01	1.58E-01	1.63E-01	6.17E-01	4.29E-01	4.84E-01	6.08E-01	1.99E+00	1.47E+01
5.0E-02	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.13E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.22E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.58E-01	1.69E-01	1.87E-01	1.58E-01	1.63E-01	6.14E-01	4.29E-01	4.84E-01	6.08E-01	1.91E+00	1.45E+01
1.0E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.13E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.22E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.57E-01	1.69E-01	1.87E-01	1.58E-01	1.63E-01	6.06E-01	4.29E-01	4.84E-01	6.08E-01	1.68E+00	1.40E+01
1.5E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.13E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.22E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.56E-01	1.69E-01	1.87E-01	1.58E-01	1.63E-01	5.91E-01	4.29E-01	4.84E-01	6.07E-01	1.36E+00	1.34E+01
2.0E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.13E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.22E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.54E-01	1.69E-01	1.87E-01	1.58E-01	1.63E-01	5.72E-01	4.28E-01	4.82E-01	6.06E-01	1.02E+00	1.26E+01
3.0E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.12E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.21E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.50E-01	1.69E-01	1.86E-01	1.58E-01	1.63E-01	5.20E-01	4.24E-01	4.75E-01	5.92E-01	4.73E-01	1.14E+01
4.0E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.11E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.21E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.44E-01	1.69E-01	1.86E-01	1.58E-01	1.63E-01	4.55E-01	4.14E-01	4.58E-01	5.55E-01	1.90E-01	1.05E+01
5.0E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.10E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.20E-01	7.67E-02	8.41E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.36E-01	1.69E-01	1.86E-01	1.58E-01	1.63E-01	3.84E-01	3.96E-01	4.30E-01	4.93E-01	9.73E-02	9.98E+00
6.0E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.09E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.19E-01	7.67E-02	8.40E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.27E-01	1.69E-01	1.85E-01	1.58E-01	1.63E-01	3.14E-01	3.70E-01	3.90E-01	4.16E-01	8.21E-02	9.50E+00
7.0E-01	7.82E-03	2.80E-02	1.35E-02	1.58E-02	6.08E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.18E-01	7.66E-02	8.40E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.17E-01	1.68E-01	1.84E-01	1.58E-01	1.63E-01	2.49E-01	3.37E-01	3.43E-01	3.36E-01	8.13E-02	9.00E+00
8.0E-01	7.82E-03	2.79E-02	1.35E-02	1.58E-02	6.06E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.16E-01	7.66E-02	8.40E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	2.05E-01	1.67E-01	1.82E-01	1.58E-01	1.63E-01	1.92E-01	2.99E-01	2.91E-01	2.61E-01	7.52E-02	8.47E+00
1.0E+00	7.82E-03	2.79E-02	1.35E-02	1.58E-02	6.02E-02	3.58E-02	3.95E-02	2.54E-02	2.62E-02	1.13E-01	7.66E-02	8.39E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	1.81E-01	1.64E-01	1.77E-01	1.57E-01	1.61E-01	1.11E-01	2.16E-01	1.90E-01	1.46E-01	4.86E-02	7.48E+00
1.2E+00	7.82E-03	2.79E-02	1.35E-02	1.58E-02	5.97E-02	3.57E-02	3.95E-02	2.54E-02	2.62E-02	1.09E-01	7.64E-02	8.36E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	1.55E-01	1.58E-01	1.70E-01	1.55E-01	1.59E-01	6.86E-02	1.42E-01	1.11E-01	7.58E-02	2.43E-02	6.69E+00
1.4E+00	7.82E-03	2.78E-02	1.35E-02	1.58E-02	5.91E-02	3.57E-02	3.95E-02	2.54E-02	2.62E-02	1.04E-01	7.62E-02	8.33E-02	6.23E-02	6.40E-02	5.05E-02	5.12E-02	1.30E-01	1.51E-01	1.59E-01	1.51E-01	1.55E-01	5.28E-02	8.57E-02	6.12E-02	3.74E-02	1.13E-02	6.12E+00
1.6E+00	7.82E-03	2.78E-02	1.35E-02	1.58E-02	5.85E-02	3.57E-02	3.95E-02	2.54E-02	2.62E-02	9.94E-02	7.59E-02	8.28E-02	6.22E-02	6.39E-02	5.05E-02	5.12E-02	1.06E-01	1.42E-01	1.46E-01	1.45E-01	1.48E-01	4.97E-02	5.04E-02	3.54E-02	1.84E-02	6.44E-03	5.72E+00
1.8E+00	7.81E-03	2.77E-02	1.35E-02	1.58E-02	5.78E-02	3.57E-02	3.95E-02	2.54E-02	2.62E-02	9.41E-02	7.54E-02	8.21E-02	6.22E-02	6.39E-02	5.05E-02	5.12E-02	8.55E-02	1.30E-01	1.31E-01	1.38E-01	1.40E-01	4.95E-02	3.16E-02	2.49E-02	9.94E-03	5.33E-03	5.40E+00
2.0E+00	7.81E-03	2.76E-02	1.35E-02	1.58E-02	5.70E-02	3.57E-02	3.95E-02	2.54E-02	2.62E-02	8.86E-02	7.48E-02	8.12E-02	6.21E-02	6.38E-02	5.05E-02	5.11E-02	6.81E-02	1.18E-01	1.14E-01	1.28E-01	1.29E-01	4.76E-02	2.34E-02	2.20E-02	6.72E-03	5.27E-03	5.12E+00
2.4E+00	7.81E-03	2.75E-02	1.35E-02	1.58E-02	5.51E-02	3.57E-02	3.94E-02	2.54E-02	2.62E-02	7.71E-02	7.31E-02	7.86E-02	6.19E-02	6.35E-02	5.04E-02	5.11E-02	4.37E-02	9.05E-02	8.19E-02	1.05E-01	1.04E-01	3.65E-02	2.06E-02	2.15E-02	5.65E-03	4.60E-03	4.57E+00
3.0E+00	7.80E-03	2.72E-02	1.35E-02	1.58E-02	5.20E-02	3.55E-02	3.92E-02	2.54E-02	2.62E-02	6.01E-02	6.91E-02	7.28E-02	6.11E-02	6.26E-02	5.02E-02	5.09E-02	2.84E-02	5.35E-02	4.33E-02	6.85E-02	6.53E-02	1.67E-02	1.83E-02	1.58E-02	5.14E-03	2.26E-03	3.77E+00
4.0E+00	7.78E-03	2.66E-02	1.35E-02	1.58E-02	4.58E-02	3.51E-02	3.85E-02	2.54E-02	2.62E-02	3.63E-02	5.85E-02	5.85E-02	5.76E-02	5.87E-02	4.92E-02	4.98E-02	2.59E-02	1.93E-02	1.57E-02	2.51E-02	2.26E-02	5.52E-03	7.44E-03	4.66E-03	2.36E-03	5.89E-04	2.87E+00
5.0E+00	7.76E-03	2.58E-02	1.35E-02	1.58E-02	3.89E-02	3.43E-02	3.73E-02	2.53E-02	2.61E-02	2.15E-02	4.50E-02	4.17E-02	5.11E-02	5.14E-02	4.67E-02	4.71E-02	2.14E-02	1.18E-02	1.27E-02	8.76E-03	7.99E-03	5.11E-03	2.45E-03	1.99E-03	7.50E-04	5.14E-04	2.41E+00
6.0E+00	7.74E-03	2.49E-02	1.35E-02	1.58E-02	3.21E-02	3.31E-02	3.55E-02	2.52E-02	2.60E-02	1.47E-02	3.14E-02	2.67E-02	4.21E-02	4.16E-02	4.26E-02	4.28E-02	1.29E-02	1.15E-02	1.18E-02	5.62E-03	5.65E-03	3.63E-03	1.85E-03	1.89E-03	3.54E-04	3.81E-04	2.07E+00
7.0E+00	7.71E-03	2.39E-02	1.34E-02	1.57E-02	2.56E-02	3.14E-02	3.30E-02	2.50E-02	2.57E-02	1.28E-02	2.03E-02	1.60E-02	3.22E-02	3.12E-02	3.73E-02	3.72E-02	6.52E-03	9.93E-03	8.76E-03	3.54E-03	5.55E-03	1.87E-03	1.76E-03	1.54E-03	3.23E-04	1.98E-04	1.76E+00
8.0E+00	7.67E-03	2.27E-02	1.34E-02	1.56E-02	2.00E-02	2.93E-02	3.00E-02	2.46E-02	2.53E-02	1.27E-02	1.26E-02	9.82E-03	2.31E-02	2.19E-02	3.15E-02	3.13E-02	3.77E-03	7.06E-03	5.31E-03	5.03E-03	4.91E-03	9.13E-04	1.36E-03	9.79E-04	3.07E-04	9.48E-05	1.47E+00
1.0E+01	7.60E-03	2.00E-02	1.30E-02	1.50E-02	1.20E-02	2.40E-02	2.30E-02	2.30E-02	2.40E-02	1.10E-02	6.10E-03	6.10E-03	1.00E-02	9.30E-03	2.10E-02	2.00E-02	3.10E-03	2.50E-03	1.70E-03	2.90E-03	2.60E-03	5.90E-04	5.00E-04	3.00E-04	1.80E-04	5.80E-05	1.00E+00
1.5E+01	7.30E-03	1.40E-02	1.30E-02	1.40E-02	4.90E-03	1.10E-02	8.30E-03	1.70E-02	1.70E-02	3.00E-03	4.80E-03	4.60E-03	2.40E-03	2.50E-03	5.70E-03	5.40E-03	1.10E-03	1.10E-03	1.10E-03	4.20E-04	4.10E-04	2.30E-04	1.80E-04	1.70E-04	2.60E-05	2.30E-05	5.10E-01
2.0E+01	7.00E-03	8.20E-03	1.10E-02	1.20E-02	4.60E-03	3.50E-03	2.60E-03	1.00E-02	9.90E-03	1.20E-03	2.10E-03	1.50E-03	2.20E-03	2.20E-03	1.40E-03	1.30E-03	3.00E-04	5.70E-04	3.90E-04	3.60E-04	3.60E-04	5.80E-05	9.60E-05	6.10E-05	2.10E-05	5.70E-06	2.90E-01
3.0E+01	6.10E-03	2.30E-03	7.80E-03	7.30E-03	2.00E-03	1.30E-03	1.70E-03	2.80E-03	2.50E-03	7.50E-04	3.30E-04	4.00E-04	8.40E-04	7.70E-04	1.10E-04	9.70E-05	1.90E-04	7.30E-05	8.30E-05	1.50E-04	1.40E-04	3.70E-05	1.20E-05	1.20E-05	9.20E-06	3.60E-06	1.20E-01
4.0E+01	5.10E-03	8.30E-04	4.70E-03	3.70E-03	4.60E-04	1.20E-03	1.20E-03	6.80E-04	5.70E-04	1.70E-04	2.90E-04	3.20E-04	2.20E-04	1.80E-04	1.10E-05	9.80E-06	4.40E-05	6.30E-05	6.90E-05	4.00E-05	3.30E-05	8.50E-06	1.00E-05	1.00E-05	2.50E-06	8.40E-07	5.50E-02
6.0E+01	3.30E-03	6.60E-04	1.50E-03	8.50E-04	1.50E-04	4.50E-04	3.00E-04	5.60E-05	4.00E-05	3.80E-05	1.20E-04	8.50E-05	1.80E-05	1.30E-05	3.10E-07	2.40E-07	8.90E-06	2.70E-05	1.90E-05	3.20E-06	2.30E-06	1.70E-06	4.40E-06	2.80E-06	2.00E-07	1.70E-07	1.80E-02
1.0E+02	1.20E-03	3.10E-04	1.80E-04	6.20E-05	7.90E-05	5.50E-05	2.10E-05	1.40E-06	7.50E-07	2.10E-05	1.50E-05	5.80E-06	4.20E-07	2.30E-07	2.20E-09	1.40E-09	5.00E-06	3.30E-06	1.30E-06	7.60E-08	4.10E-08	9.40E-07	5.30E-07	1.90E-07	4.70E-09	9.30E-08	4.20E-03

E[keV]: 1.07E+02 1.98E+01 1.91E+01 1.59E+01 5.00E+00 4.66E+00 3.91E+00 3.37E+00 3.22E+00 1.27E+00 1.08E+00 8.90E-01 6.75E-01 6.39E-01 3.19E-01 3.19E-01 2.72E-01 2.15E-01 1.67E-01 8.00E-02 8.00E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(1)	6d-(2)	Total
0.0E+00	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.14E-01	6.16E-01	7.73E-01	1.02E+00	1.17E+00	1.51E+00	1.76E+00	2.14E+00	2.44E+00	2.85E+00	3.37E+00	3.71E+00	4.45E+00	5.09E+00	6.06E+00	7.30E+00	8.16E+00	1.01E+01	1.07E+01	1.47E+01	1.47E+01
5.0E-02	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.14E-01	6.16E-01	7.73E-01	1.02E+00	1.17E+00	1.51E+00	1.76E+00	2.14E+00	2.44E+00	2.85E+00	3.37E+00	3.71E+00	4.45E+00	5.09E+00	6.06E+00	7.29E+00	8.15E+00	1.01E+01	1.07E+01	1.45E+01	1.45E+01
1.0E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.14E-01	6.16E-01	7.73E-01	1.02E+00	1.17E+00	1.51E+00	1.76E+00	2.14E+00	2.44E+00	2.85E+00	3.37E+00	3.70E+00	4.45E+00	5.08E+00	6.06E+00	7.27E+00	8.13E+00	1.01E+01	1.07E+01	1.40E+01	1.40E+01
1.5E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.14E-01	6.16E-01	7.73E-01	1.02E+00	1.17E+00	1.51E+00	1.76E+00	2.14E+00	2.44E+00	2.85E+00	3.36E+00	3.70E+00	4.45E+00	5.08E+00	6.06E+00	7.24E+00	8.10E+00	1.00E+01	1.06E+01	1.34E+01	1.34E+01
2.0E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.14E-01	6.16E-01	7.73E-01	1.02E+00	1.17E+00	1.51E+00	1.76E+00	2.14E+00	2.44E+00	2.85E+00	3.36E+00	3.70E+00	4.45E+00	5.08E+00	6.06E+00	7.20E+00	8.06E+00	9.98E+00	1.06E+01	1.26E+01	1.26E+01
3.0E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.14E-01	6.15E-01	7.73E-01	1.01E+00	1.17E+00	1.50E+00	1.75E+00	2.14E+00	2.44E+00	2.85E+00	3.35E+00	3.69E+00	4.43E+00	5.06E+00	6.04E+00	7.08E+00	7.93E+00	9.83E+00	1.04E+01	1.14E+01	1.14E+01
4.0E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.14E-01	6.15E-01	7.72E-01	1.01E+00	1.17E+00	1.50E+00	1.75E+00	2.14E+00	2.44E+00	2.85E+00	3.34E+00	3.68E+00	4.42E+00	5.05E+00	6.03E+00	6.94E+00	7.77E+00	9.60E+00	1.02E+01	1.05E+01	1.05E+01
5.0E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.56E-01	5.13E-01	6.15E-01	7.72E-01	1.01E+00	1.17E+00	1.50E+00	1.75E+00	2.14E+00	2.44E+00	2.85E+00	3.32E+00	3.66E+00	4.40E+00	5.03E+00	6.01E+00	6.78E+00	7.57E+00	9.29E+00	9.78E+00	9.98E+00	9.98E+00
6.0E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.84E-01	3.55E-01	5.13E-01	6.15E-01	7.72E-01	1.01E+00	1.16E+00	1.50E+00	1.75E+00	2.13E+00	2.44E+00	2.85E+00	3.30E+00	3.64E+00	4.38E+00	5.01E+00	5.99E+00	6.62E+00	7.36E+00	8.92E+00	9.33E+00	9.50E+00	9.50E+00
7.0E-01	1.56E-02	7.16E-02	9.86E-02	1.62E-01	2.83E-01	3.55E-01	5.13E-01	6.15E-01	7.72E-01	1.01E+00	1.16E+00	1.50E+00	1.74E+00	2.13E+00	2.43E+00	2.84E+00	3.28E+00	3.61E+00	4.35E+00	4.98E+00	5.96E+00	6.46E+00	7.13E+00	8.50E+00	8.84E+00	9.00E+00	9.00E+00
8.0E-01	1.56E-02	7.14E-02	9.84E-02	1.62E-01	2.83E-01	3.54E-01	5.12E-01	6.14E-01	7.71E-01	1.00E+00	1.16E+00	1.49E+00	1.74E+00	2.13E+00	2.43E+00	2.84E+00	3.25E+00	3.58E+00	4.31E+00	4.94E+00	5.92E+00	6.30E+00	6.90E+00	8.07E+00	8.33E+00	8.48E+00	8.47E+00
1.0E+00	1.56E-02	7.14E-02	9.84E-02	1.62E-01	2.82E-01	3.54E-01	5.12E-01	6.13E-01	7.70E-01	9.96E-01	1.15E+00	1.49E+00	1.73E+00	2.12E+00	2.42E+00	2.83E+00	3.19E+00	3.52E+00	4.23E+00	4.86E+00	5.82E+00	6.05E+00	6.48E+00	7.24E+00	7.38E+00	7.48E+00	7.48E+00
1.2E+00	1.56E-02	7.14E-02	9.84E-02	1.62E-01	2.81E-01	3.52E-01	5.10E-01	6.12E-01	7.69E-01	9.87E-01	1.14E+00	1.47E+00	1.72E+00	2.11E+00	2.41E+00	2.82E+00	3.13E+00	3.45E+00	4.13E+00	4.75E+00	5.70E+00	5.84E+00	6.12E+00	6.57E+00	6.64E+00	6.69E+00	6.69E+00
1.4E+00	1.56E-02	7.12E-02	9.82E-02	1.61E-01	2.80E-01	3.51E-01	5.09E-01	6.11E-01	7.68E-01	9.76E-01	1.13E+00	1.46E+00	1.71E+00	2.09E+00	2.40E+00	2.81E+00	3.07E+00	3.37E+00	4.01E+00	4.61E+00	5.54E+00	5.62E+00	6.06E+00	6.10E+00	6.12E+00	6.12E+00	6.12E+00
1.6E+00	1.56E-02	7.12E-02	9.82E-02	1.61E-01	2.78E-01	3.50E-01	5.08E-01	6.09E-01	7.67E-01	9.65E-01	1.12E+00	1.45E+00	1.70E+00	2.08E+00	2.38E+00	2.79E+00	3.01E+00	3.29E+00	3.87E+00	4.45E+00	5.34E+00	5.44E+00	5.68E+00	5.70E+00	5.71E+00	5.72E+00	5.72E+00
1.8E+00	1.56E-02	7.10E-02	9.80E-02	1.61E-01	2.77E-01	3.48E-01	5.06E-01	6.08E-01	7.65E-01	9.53E-01	1.10E+00	1.43E+00	1.68E+00	2.06E+00	2.37E+00	2.78E+00	2.95E+00	3.21E+00	3.73E+00	4.28E+00	5.12E+00	5.22E+00	5.29E+00	5.39E+00	5.40E+00	5.41E+00	5.40E+00
2.0E+00	1.56E-02	7.08E-02	9.78E-02	1.61E-01	2.75E-01	3.46E-01	5.04E-01	6.06E-01	7.63E-01	9.40E-01	1.09E+00	1.41E+00	1.66E+00	2.05E+00	2.35E+00	2.76E+00	2.89E+00	3.13E+00	3.59E+00	4.10E+00	4.87E+00	4.97E+00	5.01E+00	5.10E+00	5.11E+00	5.12E+00	5.12E+00
2.4E+00	1.56E-02	7.06E-02	9.76E-02	1.61E-01	2.71E-01	3.42E-01	5.00E-01	6.02E-01	7.59E-01	9.13E-01	1.06E+00	1.37E+00	1.62E+00	2.00E+00	2.30E+00	2.71E+00	2.80E+00	2.98E+00	3.31E+00	3.73E+00	4.35E+00	4.43E+00	4.47E+00	4.55E+00	4.56E+00	4.57E+00	4.57E+00
3.0E+00	1.56E-02	7.00E-02	9.70E-02	1.60E-01	2.68E-01	3.35E-01	4.94E-01	7.51E-01	8.71E-01	1.01E+00	1.30E+00	1.54E+00	1.92E+00	2.22E+00	2.63E+00	2.69E+00	2.79E+00	2.97E+00	3.24E+00	3.63E+00	3.67E+00	3.70E+00	3.76E+00	3.77E+00	3.77E+00	3.77E+00	3.77E+00
4.0E+00	1.56E-02	6.88E-02	9.58E-02	1.59E-01	2.51E-01	3.21E-01	4.75E-01	5.76E-01	7.34E-01	8.06E-01	9.23E-01	1.16E+00	1.39E+00	1.74E+00	2.03E+00	2.43E+00	2.49E+00	2.52E+00	2.59E+00	2.69E+00	2.82E+00	2.83E+00	2.85E+00	2.87E+00	2.87E+00	2.87E+00	2.87E+00
5.0E+00	1.55E-02	6.71E-02	9.41E-02	1.57E-01	2.35E-01	3.04E-01	4.53E-01	5.54E-01	7.11E-01	7.54E-01	8.44E-01	1.01E+00	1.21E+00	1.52E+00	1.80E+00	2.18E+00	2.22E+00	2.25E+00	2.30E+00	2.33E+00	2.38E+00	2.39E+00	2.40E+00	2.40E+00	2.40E+00	2.41E+00	2.41E+00
6.0E+00	1.55E-02	6.53E-02	9.23E-02	1.55E-01	2.20E-01	2.86E-01	4.28E-01	5.29E-01	6.85E-01	7.14E-01	7.77E-01	8.84E-01	1.05E+00	1.30E+00	1.56E+00	1.90E+00	1.93E+00	1.95E+00	2.00E+00	2.02E+00	2.05E+00	2.06E+00	2.06E+00	2.07E+00	2.07E+00	2.07E+00	2.07E+00
7.0E+00	1.54E-02	6.32E-02	9.00E-02	1.53E-01	2.04E-01	2.67E-01	3.99E-01	4.99E-01	6.53E-01	6.79E-01	7.19E-01	7.83E-01	9.12E-01	1.10E+00	1.32E+00	1.62E+00	1.63E+00	1.65E+00	1.69E+00	1.71E+00	1.74E+00	1.75E+00	1.75E+00	1.76E+00	1.76E+00	1.76E+00	1.76E+00
8.0E+00	1.53E-02	6.07E-02	8.75E-02	1.50E-01	1.90E-01	2.49E-01	3.69E-01	4.67E-01	6.19E-01	6.44E-01	6.69E-01	7.09E-01	8.01E-01	9.32E-01	1.12E+00	1.37E+00	1.38E+00	1.39E+00	1.41E+00	1.43E+00	1.46E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00
1.0E+01	1.52E-02	5.52E-02	8.12E-02	1.41E-01	1.65E-01	2.13E-01	3.05E-01	3.97E-01	5.41E-01	5.63E-01	5.75E-01	6.00E-01	6.40E-01	6.96E-01	8.22E-01	9.82E-01	9.88E-01	9.93E-01	1.00E+00	1.01E+00	1.03E+00	1.03E+00	1.03E+00	1.03E+00	1.03E+00	1.03E+00	1.03E+00
1.5E+01	1.46E-02	4.26E-02	6.86E-02	1.25E-01	1.34E-01	1.56E-01	1.90E-01	2.58E-01	3.60E-01	3.66E-01	3.75E-01	3.94E-01	4.03E-01	4.18E-01	4.52E-01	4.96E-01	4.98E-01	5.00E-01	5.04E-01	5.06E-01	5.09E-01	5.09E-01	5.09E-01	5.10E-01	5.10E-01	5.10E-01	5.10E-01
2.0E+01	1.40E-02	3.04E-02	5.24E-02	1.00E-01	1.10E-01	1.17E-01	1.27E-01	1.67E-01	2.26E-01	2.29E-01	2.33E-01	2.39E-01	2.48E-01	2.61E-01	2.69E-01	2.80E-01	2.80E-01	2.82E-01	2.83E-01	2.85E-01	2.87E-01	2.87E-01	2.87E-01	2.87E-01	2.87E-01	2.87E-01	2.90E-01
3.0E+01	1.22E-02	1.68E-02	3.24E-02	6.16E-02	6.56E-02	6.82E-02	7.50E-02	8.62E-02	1.01E-01	1.03E-01	1.03E-01	1.05E-01	1.08E-01	1.13E-01	1.14E-01	1.14E-01	1.15E-01	1.15E-01	1.15E-01	1.16E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.20E-01
4.0E+01	1.02E-02	1.19E-02	2.13E-02	3.61E-02	3.70E-02	3.94E-02	4.42E-02	4.69E-02	5.03E-02	5.07E-02	5.12E-02	5.25E-02	5.34E-02	5.45E-02	5.45E-02	5.46E-02	5.47E-02	5.48E-02	5.51E-02	5.53E-02	5.55E-02	5.55E-02	5.55E-02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10^1
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10-1
10-2
0.0
89Ac
Σi Ji(Q)
Q

Z=90

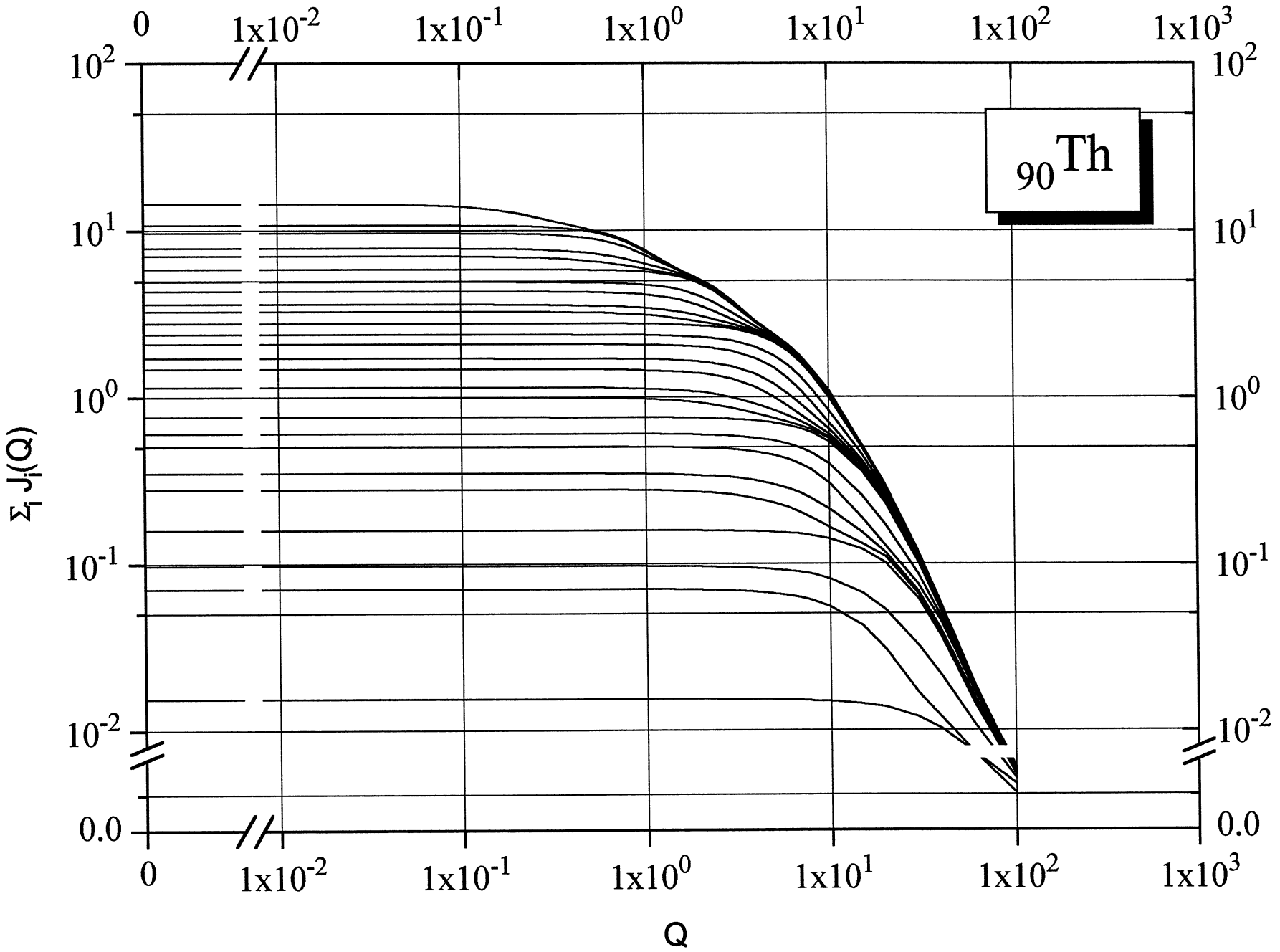
Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(2)	6d-(2)	Total
0.0E+00	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.03E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.20E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.51E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	5.85E-01	4.08E-01	4.56E-01	5.35E-01	1.86E+00	1.45E+01
5.0E-02	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.03E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.20E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.50E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	5.82E-01	4.08E-01	4.56E-01	5.35E-01	1.79E+00	1.44E+01
1.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.03E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.20E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.50E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	5.75E-01	4.08E-01	4.56E-01	5.35E-01	1.60E+00	1.40E+01
1.5E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.03E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.20E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.49E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	5.62E-01	4.07E-01	4.56E-01	5.35E-01	1.33E+00	1.34E+01
2.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.03E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.19E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.47E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	5.45E-01	4.07E-01	4.55E-01	5.34E-01	1.03E+00	1.28E+01
3.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.02E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.19E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.43E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	5.00E-01	4.03E-01	4.49E-01	5.28E-01	5.17E-01	1.16E+01
4.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.01E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.18E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.37E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	4.43E-01	3.95E-01	4.36E-01	5.08E-01	2.22E-01	1.08E+01
5.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	6.00E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.16E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.30E-01	1.64E-01	1.81E-01	1.52E-01	1.57E-01	3.79E-01	3.81E-01	4.13E-01	4.71E-01	1.08E-01	1.02E+01
6.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	5.99E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.17E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.22E-01	1.64E-01	1.80E-01	1.52E-01	1.57E-01	3.15E-01	3.59E-01	3.81E-01	4.18E-01	8.16E-02	9.70E+00
7.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	5.98E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.15E-01	7.52E-02	8.26E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.12E-01	1.63E-01	1.79E-01	1.52E-01	1.57E-01	2.54E-01	3.31E-01	3.40E-01	3.56E-01	7.99E-02	9.21E+00
8.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	5.96E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.14E-01	7.52E-02	8.25E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	2.02E-01	1.62E-01	1.78E-01	1.52E-01	1.57E-01	2.00E-01	2.97E-01	2.95E-01	2.93E-01	7.71E-02	8.69E+00
9.0E-01	7.69E-03	2.75E-02	1.33E-02	1.56E-02	5.95E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.13E-01	7.51E-02	8.24E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	1.91E-01	1.61E-01	1.77E-01	1.52E-01	1.57E-01	1.78E-01	2.64E-01	2.63E-01	2.61E-01	7.43E-02	8.17E+00
1.0E+00	7.69E-03	2.75E-02	1.33E-02	1.56E-02	5.94E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.11E-01	7.51E-02	8.24E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	1.81E-01	1.59E-01	1.73E-01	1.51E-01	1.56E-01	1.59E-01	2.23E-01	2.02E-01	1.82E-01	5.57E-02	7.66E+00
1.2E+00	7.69E-03	2.74E-02	1.33E-02	1.56E-02	5.88E-02	3.52E-02	3.90E-02	2.50E-02	2.59E-02	1.07E-01	7.50E-02	8.22E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	1.54E-01	1.55E-01	1.66E-01	1.50E-01	1.54E-01	7.40E-02	1.52E-01	1.25E-01	1.04E-01	3.08E-02	6.79E+00
1.4E+00	7.68E-03	2.74E-02	1.33E-02	1.56E-02	5.82E-02	3.51E-02	3.90E-02	2.50E-02	2.59E-02	1.03E-01	7.48E-02	8.19E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	1.30E-01	1.48E-01	1.57E-01	1.47E-01	1.50E-01	5.48E-02	9.64E-02	7.19E-02	5.57E-02	1.50E-02	6.16E+00
1.6E+00	7.68E-03	2.73E-02	1.33E-02	1.56E-02	5.76E-02	3.51E-02	3.90E-02	2.50E-02	2.59E-02	9.82E-02	7.45E-02	8.14E-02	6.11E-02	6.28E-02	4.93E-02	5.00E-02	1.08E-01	1.40E-01	1.45E-01	1.42E-01	1.45E-01	4.98E-02	5.84E-02	4.18E-02	2.89E-02	8.02E-03	5.71E+00
1.8E+00	7.68E-03	2.73E-02	1.33E-02	1.56E-02	5.69E-02	3.51E-02	3.89E-02	2.50E-02	2.59E-02	9.32E-02	7.41E-02	8.08E-02	6.10E-02	6.27E-02	4.93E-02	5.00E-02	8.75E-02	1.29E-01	1.31E-01	1.35E-01	1.38E-01	4.94E-02	3.64E-02	2.79E-02	1.55E-02	5.91E-03	5.38E+00
2.0E+00	7.68E-03	2.72E-02	1.33E-02	1.56E-02	5.62E-02	3.51E-02	3.89E-02	2.50E-02	2.59E-02	8.79E-02	7.35E-02	8.00E-02	6.10E-02	6.27E-02	4.93E-02	5.00E-02	7.02E-02	1.18E-01	1.15E-01	1.27E-01	1.28E-01	4.84E-02	2.57E-02	2.32E-02	9.53E-03	5.62E-03	5.10E+00
2.4E+00	7.68E-03	2.70E-02	1.33E-02	1.56E-02	5.44E-02	3.51E-02	3.88E-02	2.50E-02	2.59E-02	7.69E-02	7.19E-02	7.76E-02	6.08E-02	6.24E-02	4.93E-02	5.00E-02	4.54E-02	9.22E-02	8.44E-02	1.07E-01	1.06E-01	3.93E-02	2.09E-02	2.23E-02	6.81E-03	5.22E-03	4.58E+00
3.0E+00	7.67E-03	2.68E-02	1.33E-02	1.56E-02	5.14E-02	3.50E-02	3.87E-02	2.50E-02	2.59E-02	6.04E-02	6.82E-02	7.21E-02	6.00E-02	6.15E-02	4.91E-02	4.98E-02	2.88E-02	5.63E-02	4.60E-02	7.20E-02	6.90E-02	1.95E-02	1.94E-02	1.77E-02	6.46E-03	2.88E-03	3.81E+00
4.0E+00	7.65E-03	2.62E-02	1.33E-02	1.56E-02	4.54E-02	3.48E-02	3.80E-02	2.50E-02	2.58E-02	3.70E-02	5.83E-02	5.85E-02	5.69E-02	5.80E-02	4.82E-02	4.88E-02	2.57E-02	2.08E-02	1.66E-02	2.80E-02	2.52E-02	5.98E-03	8.79E-03	5.73E-03	3.35E-03	7.16E-04	2.89E+00
5.0E+00	7.63E-03	2.54E-02	1.32E-02	1.56E-02	3.89E-02	3.38E-02	3.69E-02	2.50E-02	2.58E-02	2.20E-02	4.54E-02	4.23E-02	5.09E-02	5.12E-02	4.60E-02	4.65E-02	2.20E-02	1.19E-02	1.27E-02	9.84E-03	8.98E-03	5.37E-03	2.86E-03	2.21E-03	1.12E-03	5.78E-04	2.41E+00
6.0E+00	7.61E-03	2.46E-02	1.32E-02	1.56E-02	3.22E-02	3.27E-02	3.51E-02	2.49E-02	2.57E-02	1.49E-02	3.22E-02	2.76E-02	4.24E-02	4.20E-02	4.23E-02	4.25E-02	1.38E-02	1.15E-02	1.21E-02	5.84E-03	5.81E-03	4.06E-03	1.94E-03	2.04E-03	4.80E-04	4.58E-04	2.08E+00
7.0E+00	7.58E-03	2.36E-02	1.32E-02	1.55E-02	2.59E-02	3.11E-02	3.28E-02	2.47E-02	2.54E-02	1.27E-02	2.11E-02	1.67E-02	3.29E-02	3.19E-02	3.74E-02	3.74E-02	7.14E-03	1.03E-02	9.26E-03	5.60E-03	5.69E-03	2.19E-03	1.88E-03	1.73E-03	4.12E-04	2.51E-04	1.77E+00
8.0E+00	7.55E-03	2.25E-02	1.32E-02	1.54E-02	2.03E-02	2.91E-02	2.99E-02	2.43E-02	2.50E-02	1.25E-02	1.33E-02	1.03E-02	2.38E-02	2.27E-02	3.19E-02	3.17E-02	4.01E-03	7.55E-03	5.80E-03	5.25E-03	5.17E-03	1.07E-03	1.51E-03	1.15E-03	4.00E-04	1.20E-04	1.49E+00
1.0E+01	7.50E-03	2.00E-02	1.30E-02	1.50E-02	1.20E-02	2.40E-02	2.30E-02	2.30E-02	2.40E-02	1.10E-02	6.30E-03	6.10E-03	1.10E-02	9.80E-03	2.10E-02	2.10E-02	3.10E-03	2.80E-03	1.90E-03	3.10E-03	2.90E-03	6.20E-04	5.90E-04	3.60E-04	2.50E-04	6.60E-05	1.10E+00
1.5E+01	7.20E-03	1.40E-02	1.20E-02	1.40E-02	4.90E-03	1.10E-02	8.60E-03	1.70E-02	1.70E-02	3.20E-03	4.90E-03	4.70E-03	2.40E-03	2.50E-03	6.10E-03	5.80E-03	1.20E-03	1.10E-03	1.10E-03	4.60E-04	4.40E-04	2.60E-04	1.90E-04	1.90E-04	3.60E-05	2.80E-05	5.20E-01
2.0E+01	6.90E-03	8.40E-03	1.10E-02	1.20E-02	4.60E-03	3.70E-03	2.70E-03	1.10E-02	1.00E-02	1.20E-03	2.30E-03	1.60E-03	2.20E-03	2.30E-03	1.60E-03	1.50E-03	3.10E-04	6.20E-04	4.30E-04	3.70E-04	3.70E-04	6.30E-05	1.10E-04	7.20E-05	2.80E-05	6.70E-06	3.00E-01
3.0E+01	6.00E-03	2.40E-03	7.80E-03	7.40E-03	2.10E-03	1.30E-03	1.70E-03	2.90E-03	2.60E-03	7.90E-04	3.30E-04	3.90E-04	8.90E-04	8.10E-04	1.20E-04	1.10E-04	2.00E-04	7.80E-05	8.50E-05	1.60E-04	1.50E-04	4.10E-05	1.30E-05	1.40E-05	1.30E-05	4.40E-06	1.20E-01
4.0E+01	5.10E-03	8.50E-04	4.70E-03	3.80E-03	5.00E-04	1.20E-03	1.20E-03	7.30E-04	6.00E-04	1.90E-04	2.90E-04	3.30E-04	2.40E-04	2.00E-04	1.30E-05	1.10E-05	5.00E-05	6.40E-05	7.20E-05	4.50E-05	3.70E-05	1.00E-05	1.10E-05	1.20E-05	3.50E-06	1.10E-06	5.70E-02
6.0E+01	3.30E-03	6.50E-04	1.50E-03	8.90E-04	1.40E-04	4.70E-04	3.20E-04	6.10E-05	4.40E-05	3.80E-05	1.30E-04	9.00E-05	2.00E-05	1.40E-05	3.60E-07	2.80E-07	9.00E-06	2.90E-05	2.00E-05	3.70E-06	2.70E-06	1.80E-06	5.00E-06	3.30E-06	2.90E-07	1.90E-07	1.90E-02
1.0E+02	1.30E-03	3.20E-04	2.00E-04	6.70E-05	8.10E-05	5.90E-05	2.20E-05	1.50E-06	8.30E-07	2.20E-05	1.60E-05	6.20E-06	4.80E-07	2.60E-07	2.60E-09	1.70E-09	5.30E-06	3.70E-06	1.40E-06	8.90E-08	4.80E-08	1.00E-06	6.20E-07	2.20E-07	6.90E-09	1.10E-07	4.30E-03

E[keV]: 1.10E+02 2.05E+01 1.97E+01 1.63E+01 5.18E+00 4.83E+00 4.05E+00 3.49E+00 3.33E+00 1.33E+00 1.17E+00 9.68E-01 7.14E-01 6.77E-01 3.44E-01 3.35E-01 2.90E-01 2.29E-01 1.82E-01 9.50E-02 8.80E-02 6.00E-02 4.90E-02 4.30E-02 0.00E+00 0.00E+00

Cumulative Compton profiles for the single orbitals and binding energies

q_z	1s+(2)	2s+(2)	2p-(2)	2p+(4)	3s+(2)	3p-(2)	3p+(4)	3d-(4)	3d+(6)	4s+(2)	4p-(2)	4p+(4)	4d-(4)	4d+(6)	4f-(6)	4f+(8)	5s+(2)	5p-(2)	5p+(4)	5d-(4)	5d+(6)	5f-(2)	6s+(2)	6p-(4)	6p+(2)	6d-(2)	Total
0.0E+00	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.80E-01	3.50E-01	5.06E-01	6.06E-01	7.62E-01	1.00E+00	1.15E+00	1.48E+00	1.73E+00	2.10E+00	2.40E+00	2.80E+00	3.30E+00	3.63E+00	4.35E+00	4.96E+00	5.90E+00	7.07E+00	7.89E+00	9.71E+00	1.08E+01	1.45E+01	1.45E+01
5.0E-02	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.80E-01	3.50E-01	5.06E-01	6.06E-01	7.62E-01	1.00E+00	1.15E+00	1.48E+00	1.73E+00	2.10E+00	2.40E+00	2.80E+00	3.30E+00	3.63E+00	4.35E+00	4.96E+00	5.90E+00	7.07E+00	7.88E+00	9.71E+00	1.08E+01	1.44E+01	1.44E+01
1.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.80E-01	3.50E-01	5.06E-01	6.06E-01	7.62E-01	1.00E+00	1.15E+00	1.48E+00	1.73E+00	2.10E+00	2.40E+00	2.80E+00	3.30E+00	3.63E+00	4.35E+00	4.96E+00	5.90E+00	7.05E+00	7.87E+00	9.69E+00	1.08E+01	1.40E+01	1.40E+01
1.5E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.80E-01	3.50E-01	5.06E-01	6.06E-01	7.62E-01	1.00E+00	1.15E+00	1.48E+00	1.73E+00	2.10E+00	2.40E+00	2.80E+00	3.30E+00	3.63E+00	4.35E+00	4.96E+00	5.90E+00	7.02E+00	7.84E+00	9.66E+00	1.07E+01	1.34E+01	1.34E+01
2.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.80E-01	3.50E-01	5.06E-01	6.06E-01	7.62E-01	1.00E+00	1.15E+00	1.48E+00	1.72E+00	2.10E+00	2.40E+00	2.80E+00	3.29E+00	3.62E+00	4.34E+00	4.95E+00	5.89E+00	6.98E+00	7.80E+00	9.62E+00	1.07E+01	1.27E+01	1.28E+01
3.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.80E-01	3.50E-01	5.06E-01	6.06E-01	7.62E-01	1.00E+00	1.15E+00	1.48E+00	1.72E+00	2.10E+00	2.40E+00	2.80E+00	3.28E+00	3.61E+00	4.34E+00	4.94E+00	5.89E+00	6.89E+00	7.69E+00	9.49E+00	1.05E+01	1.16E+01	1.16E+01
4.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.80E-01	3.50E-01	5.06E-01	6.06E-01	7.61E-01	9.97E-01	1.15E+00	1.48E+00	1.72E+00	2.10E+00	2.40E+00	2.80E+00	3.27E+00	3.60E+00	4.32E+00	4.93E+00	5.87E+00	6.76E+00	7.55E+00	9.29E+00	1.03E+01	1.08E+01	1.09E+01
5.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.79E-01	3.50E-01	5.06E-01	6.06E-01	7.61E-01	9.97E-01	1.15E+00	1.48E+00	1.72E+00	2.10E+00	2.40E+00	2.79E+00	3.25E+00	3.58E+00	4.31E+00	4.91E+00	5.86E+00	6.61E+00	7.38E+00	9.03E+00	9.97E+00	1.02E+01	1.02E+01
6.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.79E-01	3.50E-01	5.06E-01	6.06E-01	7.61E-01	9.95E-01	1.15E+00	1.48E+00	1.72E+00	2.10E+00	2.39E+00	2.79E+00	3.24E+00	3.56E+00	4.28E+00	4.89E+00	5.83E+00	6.46E+00	7.18E+00	8.71E+00	9.54E+00	9.71E+00	9.70E+00
7.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.79E-01	3.50E-01	5.05E-01	6.05E-01	7.61E-01	9.91E-01	1.14E+00	1.47E+00	1.72E+00	2.09E+00	2.39E+00	2.79E+00	3.21E+00	3.54E+00	4.25E+00	4.86E+00	5.80E+00	6.31E+00	6.97E+00	8.33E+00	9.05E+00	9.21E+00	9.21E+00
8.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.79E-01	3.49E-01	5.05E-01	6.05E-01	7.60E-01	9.88E-01	1.14E+00	1.47E+00	1.71E+00	2.09E+00	2.39E+00	2.79E+00	3.19E+00	3.51E+00	4.23E+00	4.83E+00	5.78E+00	6.18E+00	6.77E+00	7.95E+00	8.54E+00	8.69E+00	8.69E+00
9.0E-01	1.54E-02	7.04E-02	9.70E-02	1.59E-01	2.78E-01	3.48E-01	5.04E-01	6.04E-01	7.60E-01	9.82E-01	1.13E+00	1.46E+00	1.71E+00	2.08E+00	2.38E+00	2.78E+00	3.14E+00	3.45E+00	4.15E+00	4.75E+00	5.69E+00	5.92E+00	6.37E+00	7.18E+00	7.54E+00	7.65E+00	7.66E+00
1.0E+00	1.54E-02	7.02E-02	9.68E-02	1.59E-01	2.77E-01	3.47E-01	5.03E-01	6.03E-01	7.59E-01	9.73E-01	1.12E+00	1.45E+00	1.70E+00	2.07E+00	2.37E+00	2.77E+00	3.08E+00	3.39E+00	4.05E+00	4.65E+00	5.57E+00	5.72E+00	6.03E+00	6.53E+00	6.73E+00	6.80E+00	6.79E+00
1.2E+00	1.54E-02	7.02E-02	9.68E-02	1.59E-01	2.76E-01	3.46E-01	5.02E-01	6.02E-01	7.57E-01	9.63E-01	1.11E+00	1.44E+00	1.68E+00	2.06E+00	2.36E+00	2.76E+00	3.02E+00	3.31E+00	3.94E+00	4.53E+00	5.43E+00	5.54E+00	5.73E+00	6.02E+00	6.13E+00	6.16E+00	6.16E+00
1.4E+00	1.54E-02	7.00E-02	9.66E-02	1.59E-01	2.74E-01	3.44E-01	5.00E-01	6.00E-01	7.56E-01	9.52E-01	1.10E+00	1.43E+00	1.67E+00	2.05E+00	2.34E+00	2.74E+00	2.96E+00	3.24E+00	3.82E+00	4.39E+00	5.26E+00	5.36E+00	5.47E+00	5.64E+00	5.70E+00	5.72E+00	5.71E+00
1.6E+00	1.54E-02	7.00E-02	9.66E-02	1.59E-01	2.73E-01	3.43E-01	4.99E-01	5.99E-01	7.54E-01	9.40E-01	1.09E+00	1.41E+00	1.66E+00	2.03E+00	2.33E+00	2.73E+00	2.90E+00	3.16E+00	3.68E+00	4.22E+00	5.05E+00	5.15E+00	5.22E+00	5.34E+00	5.37E+00	5.38E+00	5.38E+00
1.8E+00	1.54E-02	6.98E-02	9.64E-02	1.59E-01	2.71E-01	3.41E-01	4.97E-01	5.97E-01	7.52E-01	9.28E-01	1.08E+00	1.40E+00	1.64E+00	2.02E+00	2.31E+00	2.71E+00	2.85E+00	3.09E+00	3.55E+00	4.06E+00	4.82E+00	4.92E+00	4.97E+00	5.06E+00	5.08E+00	5.09E+00	5.10E+00
2.0E+00	1.54E-02	6.94E-02	9.60E-02	1.58E-01	2.67E-01	3.37E-01	4.93E-01	5.93E-01	7.48E-01	9.02E-01	1.05E+00	1.36E+00	1.60E+00	1.97E+00	2.27E+00	2.67E+00	2.76E+00	2.94E+00	3.28E+00	3.71E+00	4.35E+00	4.42E+00	4.47E+00	4.56E+00	4.57E+00	4.58E+00	4.58E+00
2.4E+00	1.54E-02	6.94E-02	9.60E-02	1.58E-01	2.67E-01	3.37E-01	4.93E-01	5.93E-01	7.48E-01	9.02E-01	1.05E+00	1.36E+00	1.60E+00	1.97E+00	2.27E+00	2.67E+00	2.76E+00	2.94E+00	3.23E+00	3.64E+00	3.68E+00	3.72E+00	3.79E+00	3.81E+00	3.81E+00	3.81E+00	3.81E+00
2.8E+00	1.53E-02	6.89E-02	9.55E-02	1.58E-01	2.61E-01	3.31E-01	4.86E-01	5.86E-01	7.41E-01	8.62E-01	9.98E-01	1.29E+00	1.53E+00	1.90E+00	2.19E+00	2.59E+00	2.65E+00	2.76E+00	2.94E+00	3.23E+00	3.64E+00	3.68E+00	3.72E+00	3.79E+00	3.81E+00	3.81E+00	3.81E+00
3.0E+00	1.53E-02	6.77E-02	9.43E-02	1.57E-01	2.47E-01	3.17E-01	4.69E-01	5.69E-01	7.24E-01	7.97E-01	9.14E-01	1.15E+00	1.38E+00	1.72E+00	2.01E+00	2.40E+00	2.45E+00	2.50E+00	2.56E+00	2.67E+00	2.83E+00	2.84E+00	2.86E+00	2.88E+00	2.89E+00	2.89E+00	2.89E+00
3.2E+00	1.53E-02	6.61E-02	9.25E-02	1.55E-01	2.33E-01	2.98E-01	4.48E-01	5.48E-01	7.03E-01	7.47E-01	8.37E-01	1.01E+00	1.21E+00	1.52E+00	1.79E+00	2.17E+00	2.21E+00	2.23E+00	2.28E+00	2.32E+00	2.38E+00	2.39E+00	2.39E+00	2.40E+00	2.40E+00	2.41E+00	2.41E+00
3.4E+00	1.52E-02	6.44E-02	9.08E-02	1.53E-01	2.18E-01	2.83E-01	4.23E-01	5.23E-01	6.77E-01	7.07E-01	7.71E-01	8.82E-01	1.05E+00	1.30E+00	1.56E+00	1.90E+00	1.92E+00	1.95E+00	2.00E+00	2.02E+00	2.05E+00	2.06E+00	2.07E+00	2.07E+00	2.08E+00	2.08E+00	2.08E+00
3.6E+00	1.52E-02	6.24E-02	8.88E-02	1.51E-01	2.03E-01	2.65E-01	3.96E-01	4.95E-01	6.47E-01	6.73E-01	7.15E-01	7.82E-01	9.13E-01	1.10E+00	1.33E+00	1.63E+00	1.64E+00	1.66E+00	1.70E+00	1.72E+00	1.76E+00	1.76E+00	1.76E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00
3.8E+00	1.51E-02	6.01E-02	8.65E-02	1.48E-01	1.89E-01	2.47E-01	3.67E-01	4.64E-01	6.14E-01	6.39E-01	6.65E-01	7.07E-01	8.02E-01	9.38E-01	1.13E+00	1.38E+00	1.39E+00	1.41E+00	1.43E+00	1.45E+00	1.48E+00	1.48E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
4.0E+00	1.50E-02	5.50E-02	8.10E-02	1.41E-01	1.65E-01	2.13E-01	3.05E-01	3.97E-01	5.41E-01	5.63E-01	5.76E-01	6.00E-01	6.44E-01	7.03E-01	8.29E-01	9.97E-01	1.00E+00	1.01E+00	1.02E+00	1.03E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00	1.05E+00	1.10E+00
4.2E+00	1.44E-02	4.24E-02	6.64E-02	1.22E-01	1.32E-01	1.54E-01	1.89E-01	2.57E-01	3.59E-01	3.65E-01	3.75E-01	3.94E-01	4.03E-01	4.18E-01	4.55E-01	5.01E-01	5.04E-01	5.06E-01	5.10E-01	5.12E-01	5.15E-01	5.15E-01	5.16E-01	5.16E-01	5.16E-01	5.16E-01	5.20E-01
4.4E+00	1.38E-02	3.06E-02	5.26E-02	1.01E-01	1.10E-01	1.17E-01	1.28E-01	1.72E-01	2.32E-01	2.34E-01	2.39E-01	2.45E-01	2.54E-01	2.68E-01	2.78E-01	2.90E-01	2.90E-01	2.91E-01	2.93E-01	2.95E-01	2.97E-01	2.97E-01	2.97E-01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Σi Ji(Q)
Q

Z=91

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																								
0.0E+00	8.63E+00	1.01E+01	1.12E+01	1.17E+01	1.21E+01	1.23E+01	1.27E+01	1.30E+01	1.33E+01	1.34E+01	1.37E+01	1.38E+01	1.39E+01	1.41E+01	1.41E+01	1.43E+01	1.43E+01	1.43E+01	1.44E+01	1.44E+01	1.44E+01
5.0E-02	8.49E+00	1.00E+01	1.10E+01	1.15E+01	1.19E+01	1.22E+01	1.26E+01	1.28E+01	1.31E+01	1.33E+01	1.35E+01	1.37E+01	1.38E+01	1.39E+01	1.40E+01	1.41E+01	1.42E+01	1.42E+01	1.43E+01	1.43E+01	1.43E+01
1.0E-01	8.05E+00	9.56E+00	1.06E+01	1.11E+01	1.15E+01	1.18E+01	1.21E+01	1.24E+01	1.27E+01	1.28E+01	1.31E+01	1.32E+01	1.33E+01	1.35E+01	1.36E+01	1.37E+01	1.37E+01	1.38E+01	1.38E+01	1.38E+01	1.38E+01
1.5E-01	7.45E+00	8.96E+00	9.99E+00	1.05E+01	1.09E+01	1.12E+01	1.15E+01	1.18E+01	1.21E+01	1.22E+01	1.25E+01	1.26E+01	1.27E+01	1.29E+01	1.29E+01	1.31E+01	1.31E+01	1.32E+01	1.32E+01	1.32E+01	1.32E+01
2.0E-01	6.77E+00	8.28E+00	9.31E+00	9.79E+00	1.02E+01	1.05E+01	1.08E+01	1.11E+01	1.14E+01	1.16E+01	1.18E+01	1.19E+01	1.20E+01	1.22E+01	1.23E+01	1.24E+01	1.24E+01	1.25E+01	1.25E+01	1.25E+01	1.25E+01
3.0E-01	5.56E+00	7.07E+00	8.10E+00	8.58E+00	8.97E+00	9.26E+00	9.63E+00	9.87E+00	1.02E+01	1.03E+01	1.06E+01	1.07E+01	1.08E+01	1.10E+01	1.11E+01	1.12E+01	1.12E+01	1.13E+01	1.13E+01	1.13E+01	1.13E+01
4.0E-01	4.77E+00	6.28E+00	7.31E+00	7.77E+00	8.16E+00	8.45E+00	8.82E+00	9.06E+00	9.39E+00	9.54E+00	9.77E+00	9.92E+00	1.00E+01	1.02E+01	1.02E+01	1.04E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01
5.0E-01	4.26E+00	5.77E+00	6.80E+00	7.25E+00	7.64E+00	7.93E+00	8.30E+00	8.54E+00	8.87E+00	9.01E+00	9.24E+00	9.40E+00	9.50E+00	9.65E+00	9.72E+00	9.84E+00	9.90E+00	9.92E+00	9.98E+00	9.99E+00	1.00E+01
6.0E-01	3.85E+00	5.37E+00	6.39E+00	6.83E+00	7.22E+00	7.51E+00	7.88E+00	8.12E+00	8.44E+00	8.59E+00	8.82E+00	8.97E+00	9.07E+00	9.22E+00	9.29E+00	9.41E+00	9.47E+00	9.50E+00	9.55E+00	9.57E+00	9.57E+00
7.0E-01	3.44E+00	4.96E+00	5.97E+00	6.39E+00	6.78E+00	7.07E+00	7.44E+00	7.68E+00	8.01E+00	8.15E+00	8.38E+00	8.53E+00	8.63E+00	8.79E+00	8.86E+00	8.97E+00	9.03E+00	9.06E+00	9.11E+00	9.13E+00	9.13E+00
8.0E-01	3.01E+00	4.52E+00	5.54E+00	5.94E+00	6.33E+00	6.62E+00	6.99E+00	7.23E+00	7.55E+00	7.70E+00	7.92E+00	8.07E+00	8.17E+00	8.33E+00	8.40E+00	8.51E+00	8.58E+00	8.60E+00	8.66E+00	8.67E+00	8.67E+00
1.0E+00	2.16E+00	3.67E+00	4.66E+00	5.01E+00	5.40E+00	5.69E+00	6.06E+00	6.30E+00	6.63E+00	6.78E+00	6.99E+00	7.15E+00	7.25E+00	7.40E+00	7.47E+00	7.58E+00	7.65E+00	7.67E+00	7.73E+00	7.74E+00	7.74E+00
1.2E+00	1.48E+00	2.96E+00	3.92E+00	4.23E+00	4.62E+00	4.91E+00	5.28E+00	5.52E+00	5.85E+00	5.99E+00	6.21E+00	6.36E+00	6.46E+00	6.61E+00	6.68E+00	6.80E+00	6.86E+00	6.88E+00	6.94E+00	6.95E+00	6.95E+00
1.4E+00	1.01E+00	2.47E+00	3.38E+00	3.64E+00	4.03E+00	4.32E+00	4.69E+00	4.93E+00	5.25E+00	5.40E+00	5.60E+00	5.76E+00	5.85E+00	6.01E+00	6.08E+00	6.19E+00	6.25E+00	6.28E+00	6.33E+00	6.35E+00	6.35E+00
1.6E+00	7.25E-01	2.14E+00	2.99E+00	3.21E+00	3.60E+00	3.89E+00	4.26E+00	4.50E+00	4.82E+00	4.97E+00	5.16E+00	5.31E+00	5.41E+00	5.57E+00	5.64E+00	5.75E+00	5.81E+00	5.84E+00	5.89E+00	5.91E+00	5.90E+00
1.8E+00	5.70E-01	1.92E+00	2.70E+00	2.88E+00	3.27E+00	3.56E+00	3.93E+00	4.17E+00	4.48E+00	4.63E+00	4.81E+00	4.97E+00	5.07E+00	5.22E+00	5.29E+00	5.40E+00	5.46E+00	5.49E+00	5.54E+00	5.56E+00	5.56E+00
2.0E+00	4.85E-01	1.75E+00	2.45E+00	2.59E+00	2.98E+00	3.27E+00	3.64E+00	3.88E+00	4.20E+00	4.34E+00	4.52E+00	4.67E+00	4.77E+00	4.92E+00	4.99E+00	5.10E+00	5.16E+00	5.19E+00	5.24E+00	5.26E+00	5.26E+00
2.4E+00	3.88E-01	1.45E+00	1.98E+00	2.08E+00	2.47E+00	2.76E+00	3.13E+00	3.36E+00	3.67E+00	3.81E+00	3.96E+00	4.12E+00	4.22E+00	4.37E+00	4.44E+00	4.55E+00	4.61E+00	4.63E+00	4.69E+00	4.70E+00	4.70E+00
3.0E+00	2.58E-01	9.80E-01	1.29E+00	1.35E+00	1.74E+00	2.03E+00	2.39E+00	2.63E+00	2.91E+00	3.05E+00	3.17E+00	3.32E+00	3.42E+00	3.57E+00	3.64E+00	3.74E+00	3.80E+00	3.83E+00	3.88E+00	3.90E+00	3.90E+00
4.0E+00	9.50E-02	3.79E-01	4.93E-01	5.44E-01	9.27E-01	1.21E+00	1.55E+00	1.78E+00	2.01E+00	2.13E+00	2.20E+00	2.36E+00	2.46E+00	2.61E+00	2.67E+00	2.77E+00	2.83E+00	2.85E+00	2.90E+00	2.92E+00	2.92E+00
5.0E+00	3.93E-02	1.40E-01	2.14E-01	2.59E-01	6.25E-01	8.98E-01	1.20E+00	1.41E+00	1.58E+00	1.67E+00	1.71E+00	1.87E+00	1.97E+00	2.11E+00	2.18E+00	2.26E+00	2.32E+00	2.34E+00	2.39E+00	2.41E+00	2.41E+00
6.0E+00	2.57E-02	8.47E-02	1.56E-01	1.85E-01	5.24E-01	7.76E-01	1.03E+00	1.20E+00	1.31E+00	1.38E+00	1.41E+00	1.56E+00	1.66E+00	1.80E+00	1.86E+00	1.93E+00	1.99E+00	2.02E+00	2.06E+00	2.08E+00	2.08E+00
7.0E+00	1.89E-02	7.53E-02	1.35E-01	1.50E-01	4.50E-01	6.75E-01	8.70E-01	1.00E+00	1.07E+00	1.12E+00	1.14E+00	1.29E+00	1.39E+00	1.52E+00	1.58E+00	1.63E+00	1.70E+00	1.72E+00	1.77E+00	1.78E+00	1.78E+00
8.0E+00	1.33E-02	6.63E-02	1.07E-01	1.16E-01	3.72E-01	5.66E-01	7.06E-01	8.04E-01	8.47E-01	8.75E-01	9.00E-01	1.05E+00	1.14E+00	1.26E+00	1.32E+00	1.36E+00	1.42E+00	1.45E+00	1.49E+00	1.51E+00	1.51E+00
1.0E+01	6.77E-03	3.86E-02	5.32E-02	5.94E-02	2.35E-01	3.67E-01	4.27E-01	4.71E-01	4.96E-01	5.09E-01	5.31E-01	6.69E-01	7.61E-01	8.53E-01	9.01E-01	9.25E-01	9.85E-01	1.01E+00	1.05E+00	1.07E+00	1.10E+00
1.5E+01	2.73E-03	7.45E-03	1.44E-02	1.70E-02	6.66E-02	1.05E-01	1.20E-01	1.30E-01	1.49E-01	1.59E-01	1.65E-01	2.67E-01	3.35E-01	3.71E-01	3.93E-01	4.03E-01	4.59E-01	4.83E-01	5.11E-01	5.25E-01	5.30E-01
2.0E+01	9.83E-04	4.74E-03	7.90E-03	8.54E-03	2.13E-02	3.15E-02	4.53E-02	5.41E-02	6.09E-02	6.57E-02	6.81E-02	1.28E-01	1.72E-01	1.83E-01	1.91E-01	2.00E-01	2.48E-01	2.70E-01	2.87E-01	3.01E-01	3.00E-01
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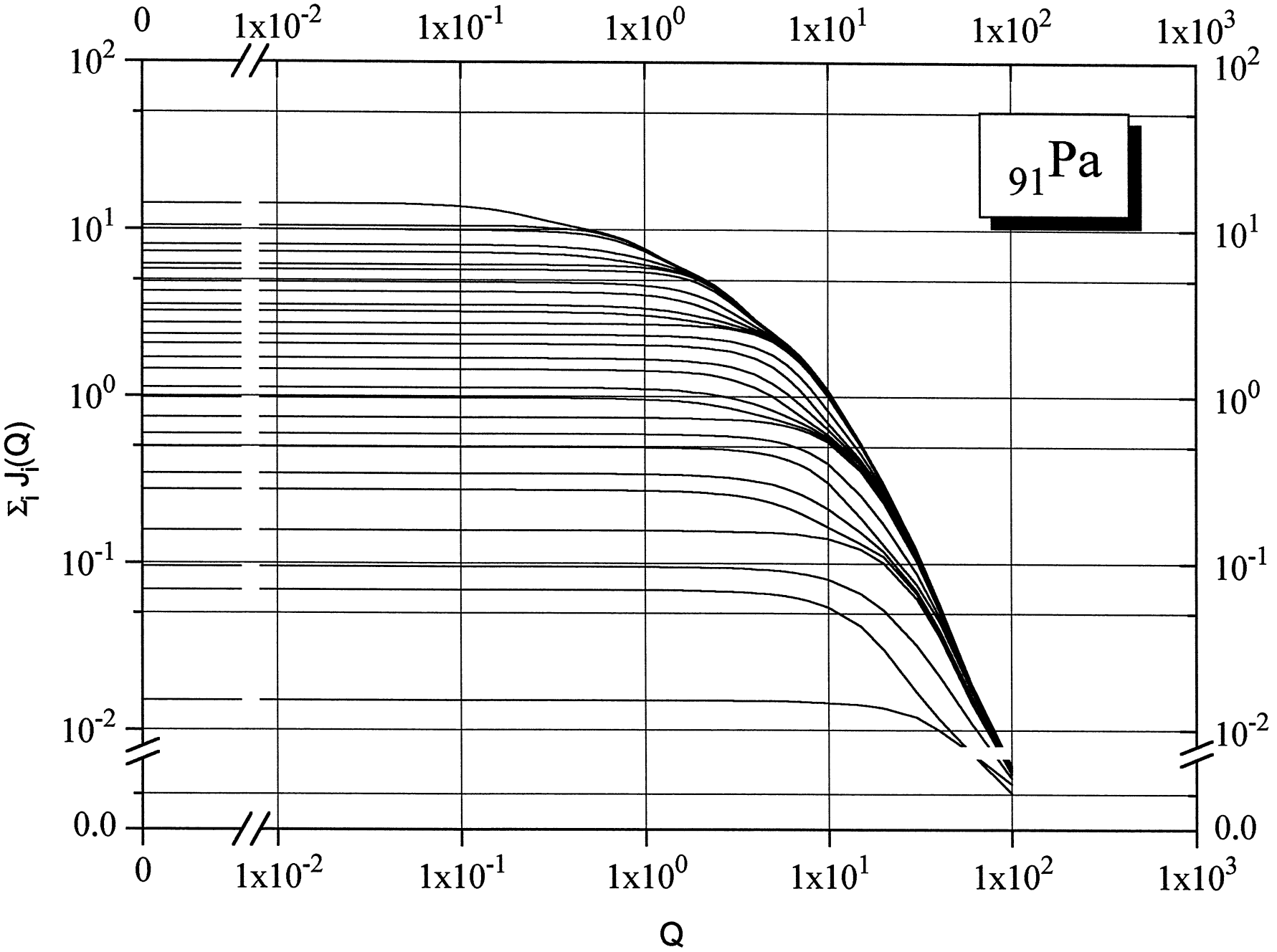
4.0E+01	9.58E-05	5.38E-04	9.62E-04	1.07E-03	1.18E-03	1.27E-03	2.53E-03	3.57E-03	4.89E-03	5.47E-03	5.89E-03	9.73E-03	1.28E-02	1.76E-02	2.00E-02	2.11E-02	3.67E-02	4.63E-02	4.80E-02	5.80E-02	5.80E-02
6.0E+01	2.79E-05	6.27E-05	2.13E-04	2.31E-04	2.33E-04	2.36E-04	3.32E-04	4.20E-04	8.00E-04	1.08E-03	1.15E-03	1.44E-03	1.71E-03	3.03E-03	4.01E-03	4.29E-03	8.01E-03	1.12E-02	1.25E-02	1.91E-02	1.90E-02
1.0E+02	4.69E-06	5.42E-06	1.94E-05	3.04E-05	3.04E-05	3.04E-05	3.22E-05	3.43E-05	6.11E-05	9.71E-05	1.43E-04	1.49E-04	1.55E-04	2.51E-04	3.79E-04	5.45E-04	8.29E-04	1.25E-03	1.91E-03	4.51E-03	4.50E-03
E[keV]:	0.00E+00	9.40E-02	2.23E-01	3.10E-01	3.60E-01	3.71E-01	7.08E-01	7.43E-01	1.01E+00	1.22E+00	1.39E+00	3.44E+00	3.61E+00	4.17E+00	5.00E+00	5.37E+00	1.67E+01	2.03E+01	2.11E+01	1.13E+02	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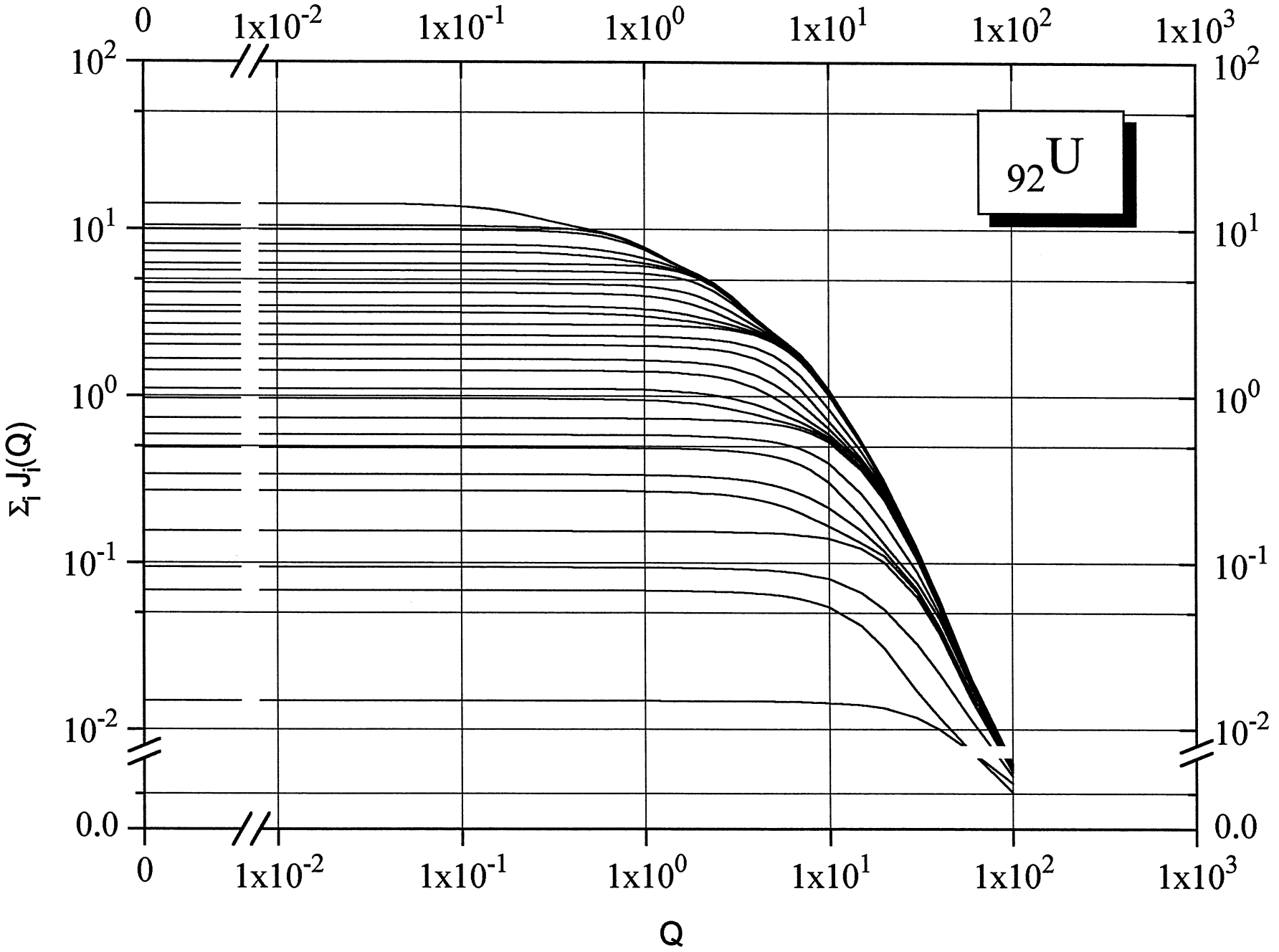
Σi Ji(Q)
Q
91Pa

Z=92

Cumulative Compton profiles for the orbitals grouped by binding energy

q_z																													
0.0E+00	4.94E+00	6.74E+00	7.52E+00	8.65E+00	9.55E+00	1.01E+01	1.08E+01	1.11E+01	1.16E+01	1.20E+01	1.23E+01	1.26E+01	1.29E+01	1.32E+01	1.33E+01	1.36E+01	1.37E+01	1.38E+01	1.40E+01	1.40E+01	1.42E+01	1.42E+01	1.42E+01	1.43E+01	1.43E+01	1.43E+01
5.0E-02	4.80E+00	6.60E+00	7.38E+00	8.51E+00	9.40E+00	9.98E+00	1.07E+01	1.10E+01	1.15E+01	1.18E+01	1.21E+01	1.25E+01	1.27E+01	1.30E+01	1.32E+01	1.34E+01	1.36E+01	1.37E+01	1.38E+01	1.39E+01	1.40E+01	1.41E+01	1.41E+01	1.41E+01	1.42E+01	1.42E+01
1.0E-01	4.40E+00	6.20E+00	6.98E+00	8.09E+00	8.99E+00	9.57E+00	1.03E+01	1.06E+01	1.10E+01	1.14E+01	1.17E+01	1.21E+01	1.23E+01	1.26E+01	1.28E+01	1.30E+01	1.32E+01	1.33E+01	1.34E+01	1.35E+01	1.36E+01	1.37E+01	1.37E+01	1.37E+01	1.37E+01	1.37E+01
1.5E-01	3.82E+00	5.62E+00	6.40E+00	7.49E+00	8.39E+00	8.97E+00	9.66E+00	9.97E+00	1.04E+01	1.08E+01	1.11E+01	1.15E+01	1.17E+01	1.20E+01	1.22E+01	1.24E+01	1.26E+01	1.27E+01	1.28E+01	1.29E+01	1.30E+01	1.31E+01	1.31E+01	1.31E+01	1.31E+01	1.32E+01
2.0E-01	3.20E+00	5.00E+00	5.78E+00	6.83E+00	7.73E+00	8.31E+00	9.00E+00	9.31E+00	9.78E+00	1.02E+01	1.05E+01	1.08E+01	1.11E+01	1.14E+01	1.15E+01	1.17E+01	1.19E+01	1.20E+01	1.21E+01	1.22E+01	1.23E+01	1.24E+01	1.24E+01	1.25E+01	1.25E+01	1.25E+01
3.0E-01	2.14E+00	3.91E+00	4.68E+00	5.66E+00	6.55E+00	7.13E+00	7.83E+00	8.14E+00	8.60E+00	8.99E+00	9.27E+00	9.63E+00	9.87E+00	1.02E+01	1.03E+01	1.06E+01	1.07E+01	1.08E+01	1.10E+01	1.10E+01	1.11E+01	1.12E+01	1.12E+01	1.13E+01	1.13E+01	1.13E+01
4.0E-01	1.52E+00	3.24E+00	4.00E+00	4.88E+00	5.77E+00	6.35E+00	7.04E+00	7.35E+00	7.81E+00	8.19E+00	8.47E+00	8.84E+00	9.07E+00	9.39E+00	9.54E+00	9.76E+00	9.92E+00	1.00E+01	1.02E+01	1.02E+01	1.03E+01	1.04E+01	1.04E+01	1.05E+01	1.05E+01	1.05E+01
5.0E-01	1.25E+00	2.89E+00	3.62E+00	4.38E+00	5.27E+00	5.85E+00	6.54E+00	6.85E+00	7.29E+00	7.67E+00	7.96E+00	8.32E+00	8.56E+00	8.88E+00	9.02E+00	9.25E+00	9.40E+00	9.50E+00	9.65E+00	9.72E+00	9.83E+00	9.89E+00	9.92E+00	9.97E+00	9.99E+00	9.99E+00
6.0E-01	1.14E+00	2.65E+00	3.35E+00	3.99E+00	4.88E+00	5.46E+00	6.15E+00	6.46E+00	6.89E+00	7.27E+00	7.55E+00	7.92E+00	8.15E+00	8.47E+00	8.62E+00	8.84E+00	8.99E+00	9.09E+00	9.24E+00	9.31E+00	9.42E+00	9.48E+00	9.51E+00	9.56E+00	9.58E+00	9.58E+00
7.0E-01	1.07E+00	2.43E+00	3.08E+00	3.60E+00	4.49E+00	5.07E+00	5.76E+00	6.07E+00	6.48E+00	6.86E+00	7.14E+00	7.51E+00	7.74E+00	8.06E+00	8.21E+00	8.43E+00	8.58E+00	8.68E+00	8.83E+00	8.90E+00	9.01E+00	9.07E+00	9.10E+00	9.15E+00	9.17E+00	9.17E+00
8.0E-01	9.96E-01	2.18E+00	2.78E+00	3.19E+00	4.08E+00	4.66E+00	5.34E+00	5.65E+00	6.04E+00	6.43E+00	6.71E+00	7.07E+00	7.31E+00	7.63E+00	7.77E+00	7.99E+00	8.14E+00	8.24E+00	8.39E+00	8.46E+00	8.58E+00	8.64E+00	8.66E+00	8.72E+00	8.73E+00	8.73E+00
1.0E+00	8.35E-01	1.66E+00	2.12E+00	2.37E+00	3.26E+00	3.84E+00	4.51E+00	4.81E+00	5.16E+00	5.54E+00	5.83E+00	6.19E+00	6.42E+00	6.74E+00	6.89E+00	7.10E+00	7.25E+00	7.35E+00	7.50E+00	7.57E+00	7.68E+00	7.75E+00	7.77E+00	7.82E+00	7.84E+00	7.84E+00
1.2E+00	6.88E-01	1.21E+00	1.53E+00	1.69E+00	2.57E+00	3.14E+00	3.79E+00	4.08E+00	4.39E+00	4.77E+00	5.06E+00	5.42E+00	5.66E+00	5.97E+00	6.12E+00	6.33E+00	6.48E+00	6.57E+00	6.73E+00	6.79E+00	6.91E+00	6.97E+00	6.99E+00	7.05E+00	7.06E+00	7.06E+00
1.4E+00	5.76E-01	8.82E-01	1.09E+00	1.20E+00	2.07E+00	2.63E+00	3.24E+00	3.53E+00	3.79E+00	4.17E+00	4.45E+00	4.82E+00	5.05E+00	5.37E+00	5.51E+00	5.71E+00	5.87E+00	5.96E+00	6.11E+00	6.18E+00	6.30E+00	6.36E+00	6.38E+00	6.43E+00	6.45E+00	6.45E+00
1.6E+00	4.94E-01	6.71E-01	8.04E-01	8.99E-01	1.74E+00	2.29E+00	2.86E+00	3.13E+00	3.35E+00	3.73E+00	4.01E+00	4.38E+00	4.61E+00	4.93E+00	5.07E+00	5.26E+00	5.41E+00	5.51E+00	5.66E+00	5.73E+00	5.84E+00	5.90E+00	5.93E+00	5.98E+00	6.00E+00	6.00E+00
1.8E+00	4.31E-01	5.44E-01	6.27E-01	7.20E-01	1.52E+00	2.05E+00	2.57E+00	2.83E+00	3.01E+00	3.39E+00	3.67E+00	4.04E+00	4.27E+00	4.59E+00	4.73E+00	4.91E+00	5.06E+00	5.16E+00	5.31E+00	5.38E+00	5.49E+00	5.55E+00	5.58E+00	5.63E+00	5.64E+00	5.64E+00
2.0E+00	3.79E-01	4.67E-01	5.22E-01	6.15E-01	1.37E+00	1.87E+00	2.33E+00	2.57E+00	2.72E+00	3.10E+00	3.36E+00	3.75E+00	3.98E+00	4.29E+00	4.43E+00	4.61E+00	4.76E+00	4.85E+00	5.01E+00	5.07E+00	5.18E+00	5.24E+00	5.27E+00	5.32E+00	5.34E+00	5.34E+00
2.4E+00	2.87E-01	3.68E-01	4.09E-01	4.89E-01	1.13E+00	1.56E+00	1.91E+00	2.10E+00	2.20E+00	2.58E+00	2.86E+00	3.22E+00	3.46E+00	3.76E+00	3.90E+00	4.05E+00	4.20E+00	4.30E+00	4.45E+00	4.52E+00	4.63E+00	4.69E+00	4.71E+00	4.76E+00	4.78E+00	4.78E+00
3.0E+00	1.78E-01	2.47E-01	2.85E-01	3.29E-01	7.70E-01	1.07E+00	1.27E+00	1.40E+00	1.46E+00	1.84E+00	2.12E+00	2.48E+00	2.71E+00	2.99E+00	3.12E+00	3.25E+00	3.40E+00	3.49E+00	3.64E+00	3.71E+00	3.81E+00	3.87E+00	3.90E+00	3.95E+00	3.97E+00	3.97E+00
4.0E+00	6.89E-02	9.47E-02	1.15E-01	1.28E-01	3.06E-01	4.35E-01	5.09E-01	5.56E-01	6.06E-01	9.82E-01	1.26E+00	1.60E+00	1.82E+00	2.06E+00	2.17E+00	2.25E+00	2.40E+00	2.50E+00	2.65E+00	2.71E+00	2.80E+00	2.86E+00	2.89E+00	2.94E+00	2.95E+00	2.95E+00
5.0E+00	2.45E-02	3.35E-02	4.05E-02	5.09E-02	1.15E-01	1.61E-01	2.12E-01	2.36E-01	2.82E-01	6.43E-01	9.12E-01	1.22E+00	1.42E+00	1.59E+00	1.68E+00	1.73E+00	1.88E+00	1.98E+00	2.12E+00	2.19E+00	2.26E+00	2.33E+00	2.35E+00	2.40E+00	2.42E+00	2.42E+00
6.0E+00	9.68E-03	1.73E-02	2.13E-02	3.00E-02	6.62E-02	9.07E-02	1.40E-01	1.63E-01	1.93E-01	5.29E-01	7.80E-01	1.03E+00	1.21E+00	1.32E+00	1.39E+00	1.42E+00	1.57E+00	1.67E+00	1.81E+00	1.87E+00	1.93E+00	1.99E+00	2.02E+00	2.07E+00	2.08E+00	2.08E+00
7.0E+00	5.67E-03	1.26E-02	1.64E-02	2.16E-02	5.59E-02	7.81E-02	1.18E-01	1.39E-01	1.56E-01	4.56E-01	6.81E-01	8.79E-01	1.02E+00	1.09E+00	1.13E+00	1.16E+00	1.31E+00	1.40E+00	1.53E+00	1.59E+00	1.65E+00	1.71E+00	1.73E+00	1.78E+00	1.79E+00	1.79E+00
8.0E+00	4.90E-03	9.86E-03	1.32E-02	1.58E-02	4.83E-02	6.98E-02	9.65E-02	1.13E-01	1.22E-01	3.82E-01	5.77E-01	7.22E-01	8.23E-01	8.68E-01	8.97E-01	9.21E-01	1.07E+00	1.16E+00	1.28E+00	1.34E+00	1.38E+00	1.44E+00	1.47E+00	1.51E+00	1.53E+00	1.52E+00
1.0E+01	4.57E-03	6.21E-03	7.69E-03	8.93E-03	2.87E-02	4.27E-02	5.15E-02	5.83E-02	6.45E-02	2.41E-01	3.73E-01	4.39E-01	4.87E-01	5.11E-01	5.25E-01	5.47E-01	6.85E-01	7.77E-01	8.69E-01	9.17E-01	9.43E-01	1.00E+00	1.03E+00	1.07E+00	1.08E+00	1.10E+00
1.5E+01	1.80E-03	2.56E-03	2.94E-03	3.56E-03	6.50E-03	8.62E-03	1.34E-02	1.56E-02	1.84E-02	7.04E-02	1.11E-01	1.26E-01	1.36E-01	1.56E-01	1.66E-01	1.73E-01	2.75E-01	3.43E-01	3.80E-01	4.04E-01	4.13E-01	4.69E-01	4.93E-01	5.21E-01	5.35E-01	5.40E-01
2.0E+01	5.48E-04	8.68E-04	1.13E-03	1.27E-03	3.61E-03	5.13E-03	7.13E-03	8.55E-03	9.23E-03	2.28E-02	3.36E-02	4.74E-02	5.62E-02	6.34E-02	6.86E-02	7.10E-02	1.37E-01	1.81E-01	1.93E-01	2.01E-01	2.10E-01	2.58E-01	2.80E-01	2.97E-01	3.11E-01	3.10E-01
3.0E+01	6.30E-05	1.15E-04	1.45E-04	2.35E-04	1.26E-03	2.01E-03	2.36E-03	2.54E-03	2.98E-03	4.02E-03	4.92E-03	1.03E-02	1.42E-02	1.57E-02	1.64E-02	1.81E-02	3.49E-02	4.73E-02	5.37E-02	5.63E-02	6.09E-02	9.09E-02	1.07E-01	1.12E-01	1.24E-01	1.20E-01
4.0E+01	1.08E-05	5.88E-05	8.08E-05	1.05E-04	3.75E-04	5.91E-04	8.99E-04	1.03E-03	1.15E-03	1.26E-03	1.36E-03	2.74E-03	3.92E-03	5.18E-03	5.76E-03	6.22E-03	1.03E-02	1.36E-02	1.84E-02	2.08E-02	2.20E-02	3.80E-02	4.78E-02	4.95E-02	5.95E-02	6.00E-02
6.0E+01	7.85E-07	1.48E-05	2.60E-05	2.96E-05	5.00E-05	6.88E-05	1.61E-04	2.27E-04	2.45E-04	2.48E-04	2.51E-04	3.53E-04	4.49E-04	8.49E-04	1.13E-03	1.20E-03	1.51E-03	1.80E-03	3.20E-03	4.22E-03	4.50E-03	8.38E-03	1.18E-02	1.30E-02	1.96E-02	2.00E-02
1.0E+02	2.09E-07	1.25E-06	2.77E-06	4.97E-06	5.35E-06	5.83E-06	1.26E-05	2.14E-05	3.28E-05	3.28E-05	3.29E-05	3.48E-05	3.72E-05	6.64E-05	1.04E-04	1.50E-04	1.56E-04	1.64E-04	2.68E-04	4.06E-04	5.76E-04	8.80E-04	1.34E-03	2.00E-03	4.60E-03	4.60E-03

E[keV]:	0.00E+00	3.30E-02	4.30E-02	7.10E-02	9.60E-02	1.05E-01	1.95E-01	2.60E-01	3.24E-01	3.81E-01	3.92E-01	7.38E-01	7.80E-01	1.05E+00	1.27E+00	1.44E+00	3.55E+00	3.73E+00	4.30E+00	5.18E+00	5.55E+00	1.72E+01	2.09E+01	2.18E+01	1.16E+02


0
1x10^-2
1x10^-1
1x10^0
1x10^1
1x10^2
1x10^3
10^2
10^1
10^0
10^-1
10^-2
0.0
92U
Σ_i J_i(Q)
Q

Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl Data Tables 16, 201 (1975)] to energy in [keV]

Scattering angle [deg] 60.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	4.86E+00	3.56E+00	9.66E+00	7.04E+00	1.91E+01	1.38E+01	2.83E+01	2.02E+01	4.60E+01	3.23E+01	6.70E+01	4.61E+01	8.68E+01	5.85E+01	1.23E+02	8.01E+01	1.86E+02	1.13E+02	3.03E+02	1.63E+02
-6.0E+01	6.43E+00	6.12E+00	1.28E+01	1.21E+01	2.51E+01	2.38E+01	3.71E+01	3.51E+01	6.01E+01	5.64E+01	8.71E+01	8.11E+01	1.12E+02	1.04E+02	1.58E+02	1.44E+02	2.35E+02	2.08E+02	3.71E+02	3.09E+02
-4.0E+01	7.41E+00	7.31E+00	1.47E+01	1.45E+01	2.89E+01	2.85E+01	4.27E+01	4.20E+01	6.90E+01	6.76E+01	9.97E+01	9.72E+01	1.28E+02	1.25E+02	1.80E+02	1.73E+02	2.64E+02	2.51E+02	4.11E+02	3.76E+02
-3.0E+01	7.97E+00	7.92E+00	1.58E+01	1.57E+01	3.11E+01	3.08E+01	4.58E+01	4.55E+01	7.39E+01	7.32E+01	1.07E+02	1.05E+02	1.37E+02	1.35E+02	1.91E+02	1.87E+02	2.81E+02	2.72E+02	4.33E+02	4.09E+02
-2.0E+01	8.57E+00	8.55E+00	1.70E+01	1.69E+01	3.34E+01	3.33E+01	4.92E+01	4.90E+01	7.93E+01	7.89E+01	1.14E+02	1.14E+02	1.46E+02	1.45E+02	2.04E+02	2.02E+02	2.98E+02	2.93E+02	4.56E+02	4.41E+02
-1.5E+01	8.88E+00	8.87E+00	1.76E+01	1.76E+01	3.46E+01	3.45E+01	5.10E+01	5.09E+01	8.21E+01	8.19E+01	1.18E+02	1.18E+02	1.51E+02	1.51E+02	2.11E+02	2.09E+02	3.07E+02	3.04E+02	4.68E+02	4.57E+02
-1.0E+01	9.21E+00	9.21E+00	1.82E+01	1.82E+01	3.58E+01	3.58E+01	5.28E+01	5.28E+01	8.50E+01	8.49E+01	1.22E+02	1.22E+02	1.56E+02	1.56E+02	2.18E+02	2.17E+02	3.16E+02	3.14E+02	4.80E+02	4.73E+02
-8.0E+00	9.34E+00	9.34E+00	1.85E+01	1.85E+01	3.64E+01	3.63E+01	5.35E+01	5.35E+01	8.62E+01	8.61E+01	1.24E+02	1.24E+02	1.59E+02	1.58E+02	2.20E+02	2.20E+02	3.20E+02	3.19E+02	4.85E+02	4.80E+02
-7.0E+00	9.41E+00	9.41E+00	1.86E+01	1.86E+01	3.66E+01	3.66E+01	5.39E+01	5.39E+01	8.68E+01	8.67E+01	1.25E+02	1.25E+02	1.60E+02	1.59E+02	2.22E+02	2.21E+02	3.22E+02	3.21E+02	4.87E+02	4.83E+02
-6.0E+00	9.48E+00	9.48E+00	1.88E+01	1.88E+01	3.69E+01	3.69E+01	5.43E+01	5.43E+01	8.74E+01	8.73E+01	1.26E+02	1.25E+02	1.61E+02	1.61E+02	2.23E+02	2.23E+02	3.24E+02	3.23E+02	4.90E+02	4.86E+02
-5.0E+00	9.55E+00	9.55E+00	1.89E+01	1.89E+01	3.71E+01	3.71E+01	5.47E+01	5.47E+01	8.80E+01	8.79E+01	1.26E+02	1.26E+02	1.62E+02	1.62E+02	2.25E+02	2.24E+02	3.26E+02	3.25E+02	4.93E+02	4.89E+02
-4.0E+00	9.62E+00	9.62E+00	1.91E+01	1.91E+01	3.74E+01	3.74E+01	5.51E+01	5.51E+01	8.86E+01	8.86E+01	1.27E+02	1.27E+02	1.63E+02	1.63E+02	2.26E+02	2.26E+02	3.28E+02	3.27E+02	4.95E+02	4.93E+02
-3.0E+00	9.69E+00	9.69E+00	1.92E+01	1.92E+01	3.77E+01	3.77E+01	5.55E+01	5.55E+01	8.92E+01	8.92E+01	1.28E+02	1.28E+02	1.64E+02	1.64E+02	2.28E+02	2.27E+02	3.30E+02	3.29E+02	4.98E+02	4.96E+02
-2.4E+00	9.73E+00	9.73E+00	1.93E+01	1.93E+01	3.78E+01	3.78E+01	5.57E+01	5.57E+01	8.96E+01	8.96E+01	1.29E+02	1.29E+02	1.65E+02	1.65E+02	2.28E+02	2.28E+02	3.31E+02	3.31E+02	4.99E+02	4.98E+02
-2.0E+00	9.76E+00	9.76E+00	1.93E+01	1.93E+01	3.79E+01	3.79E+01	5.59E+01	5.59E+01	8.98E+01	8.98E+01	1.29E+02	1.29E+02	1.65E+02	1.65E+02	2.29E+02	2.29E+02	3.32E+02	3.31E+02	5.00E+02	4.99E+02
-1.8E+00	9.77E+00	9.77E+00	1.94E+01	1.94E+01	3.80E+01	3.80E+01	5.60E+01	5.60E+01	9.00E+01	8.99E+01	1.29E+02	1.29E+02	1.65E+02	1.65E+02	2.29E+02	2.29E+02	3.32E+02	3.32E+02	5.01E+02	5.00E+02
-1.6E+00	9.79E+00	9.79E+00	1.94E+01	1.94E+01	3.81E+01	3.81E+01	5.60E+01	5.60E+01	9.01E+01	9.01E+01	1.29E+02	1.29E+02	1.65E+02	1.65E+02	2.30E+02	2.29E+02	3.33E+02	3.32E+02	5.01E+02	5.00E+02
-1.4E+00	9.80E+00	9.80E+00	1.94E+01	1.94E+01	3.81E+01	3.81E+01	5.61E+01	5.61E+01	9.02E+01	9.02E+01	1.30E+02	1.30E+02	1.66E+02	1.66E+02	2.30E+02	2.30E+02	3.33E+02	3.33E+02	5.02E+02	5.01E+02
-1.2E+00	9.82E+00	9.82E+00	1.94E+01	1.94E+01	3.82E+01	3.82E+01	5.62E+01	5.62E+01	9.03E+01	9.03E+01	1.30E+02	1.30E+02	1.66E+02	1.66E+02	2.30E+02	2.30E+02	3.33E+02	3.33E+02	5.02E+02	5.02E+02
-1.0E+00	9.83E+00	9.83E+00	1.95E+01	1.95E+01	3.82E+01	3.82E+01	5.63E+01	5.63E+01	9.05E+01	9.05E+01	1.30E+02	1.30E+02	1.66E+02	1.66E+02	2.30E+02	2.30E+02	3.34E+02	3.34E+02	5.03E+02	5.02E+02
-8.0E-01	9.85E+00	9.85E+00	1.95E+01	1.95E+01	3.83E+01	3.83E+01	5.64E+01	5.64E+01	9.06E+01	9.06E+01	1.30E+02	1.30E+02	1.66E+02	1.66E+02	2.31E+02	2.31E+02	3.34E+02	3.34E+02	5.03E+02	5.03E+02
-7.0E-01	9.85E+00	9.85E+00	1.95E+01	1.95E+01	3.83E+01	3.83E+01	5.64E+01	5.64E+01	9.06E+01	9.06E+01	1.30E+02	1.30E+02	1.66E+02	1.66E+02	2.31E+02	2.31E+02	3.34E+02	3.34E+02	5.04E+02	5.03E+02
-6.0E-01	9.86E+00	9.86E+00	1.95E+01	1.95E+01	3.83E+01	3.83E+01	5.64E+01	5.64E+01	9.07E+01	9.07E+01	1.30E+02	1.30E+02	1.67E+02	1.67E+02	2.31E+02	2.31E+02	3.35E+02	3.34E+02	5.04E+02	5.04E+02
-5.0E-01	9.87E+00	9.87E+00	1.95E+01	1.95E+01	3.84E+01	3.84E+01	5.65E+01	5.65E+01	9.08E+01	9.08E+01	1.30E+02	1.30E+02	1.67E+02	1.67E+02	2.31E+02	2.31E+02	3.35E+02	3.35E+02	5.04E+02	5.04E+02
-4.0E-01	9.87E+00	9.87E+00	1.96E+01	1.96E+01	3.84E+01	3.84E+01	5.65E+01	5.65E+01	9.08E+01	9.08E+01	1.30E+02	1.30E+02	1.67E+02	1.67E+02	2.31E+02	2.31E+02	3.35E+02	3.35E+02	5.04E+02	5.04E+02
-3.0E-01	9.88E+00	9.88E+00	1.96E+01	1.96E+01	3.84E+01	3.84E+01	5.66E+01	5.66E+01	9.09E+01	9.09E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.31E+02	2.31E+02	3.35E+02	3.35E+02	5.05E+02	5.05E+02
-2.0E-01	9.89E+00	9.89E+00	1.96E+01	1.96E+01	3.84E+01	3.84E+01	5.66E+01	5.66E+01	9.10E+01	9.10E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.35E+02	3.35E+02	5.05E+02	5.05E+02
-1.5E-01	9.89E+00	9.89E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.66E+01	5.66E+01	9.10E+01	9.10E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.35E+02	3.35E+02	5.05E+02	5.05E+02
-1.0E-01	9.90E+00	9.90E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.66E+01	5.66E+01	9.10E+01	9.10E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.05E+02	5.05E+02
-5.0E-02	9.90E+00	9.90E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.67E+01	5.67E+01	9.11E+01	9.11E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.05E+02	5.05E+02
0.0E+00	9.90E+00	9.90E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.67E+01	5.67E+01	9.11E+01	9.11E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.05E+02	5.05E+02
5.0E-02	9.91E+00	9.91E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.67E+01	5.67E+01	9.11E+01	9.11E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.06E+02	5.06E+02
1.0E-01	9.91E+00	9.91E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.67E+01	5.67E+01	9.12E+01	9.12E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.06E+02	5.06E+02
1.5E-01	9.91E+00	9.91E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.67E+01	5.67E+01	9.12E+01	9.12E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.06E+02	5.06E+02
2.0E-01	9.92E+00	9.92E+00	1.96E+01	1.96E+01	3.85E+01	3.85E+01	5.68E+01	5.68E+01	9.12E+01	9.12E+01	1.31E+02	1.31E+02	1.67E+02	1.67E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.06E+02	5.06E+02
3.0E-01	9.92E+00	9.92E+00	1.97E+01	1.97E+01	3.86E+01	3.86E+01	5.68E+01	5.68E+01	9.13E+01	9.13E+01	1.31E+02	1.31E+02	1.68E+02	1.68E+02	2.32E+02	2.32E+02	3.36E+02	3.36E+02	5.06E+02	5.06E+02
4.0E-01	9.93E+00	9.93E+00	1.97E+01	1.97E+01	3.86E+01	3.86E+01	5.68E+01	5.68E+01	9.13E+01	9.13E+01	1.31E+02	1.31E+02	1.68E+02	1.68E+02	2.33E+02	2.33E+02	3.37E+02	3.37E+02	5.07E+02	5.07E+02
5.0E-01	9.94E+00	9.94E+00	1.97E+01	1.97E+01	3.86E+01	3.86E+01	5.69E+01	5.69E+01	9.14E+01	9.14E+01	1.31E+02	1.31E+02	1.68E+02	1.68E+02	2.33E+02	2.33E+02	3.37E+02	3.37E+02	5.07E+02	5.07E+02
6.0E-01	9.95E+00	9.95E+00	1.97E+01	1.97E+01	3.87E+01	3.87E+01	5.69E+01	5.69E+01	9.15E+01	9.15E+01	1.31E+02	1.31E+02	1.68E+02	1.68E+02	2.33E+02	2.33E+02	3.37E+02	3.37E+02	5.07E+02	5.07E+02
7.0E-01	9.95E+00	9.95E+00	1.97E+01	1.97E+01	3.87E+01	3.87E+01	5.70E+01	5.70E+01	9.15E+01	9.15E+01	1.31E+02	1.31E+02	1.68E+02	1.68E+02	2.33E+02	2.33E+02	3.37E+02	3.37E+02	5.07E+02	5.08E+02
8.0E-01	9.96E+00	9.96E+00	1.97E+01	1.97E+01	3.87E+01	3.87E+01	5.70E+01	5.70E+01	9.16E+01	9.16E+01	1.32E+02	1.32E+02	1.68E+02	1.68E+02	2.33E+02	2.33E+02	3.37E+02	3.37E+02	5.08E+02	5.08E+02
1.0E+00	9.98E+00	9.98E+00	1.98E+01	1.98E+01	3.88E+01	3.88E+01	5.71E+01	5.71E+01	9.17E+01	9.17E+01	1.32E+02	1.32E+02	1.68E+02	1.68E+02	2.33E+02	2.33E+02	3.38E+02	3.38E+02	5.08E+02	5.09E+02
1.2E+00	9.99E+00	9.99E+00	1.98E+01	1.98E+01	3.88E+01	3.88E+01	5.72E+01	5.72E+01	9.19E+01	9.19E+01	1.32E+02	1.32E+02	1.69E+02	1.69E+02	2.34E+02	2.34E+02	3.38E+02	3.38E+02	5.09E+02	5.09E+02
1.4E+00	1.00E+01	1.00E+01	1.98E+01	1.98E+01	3.89E+01	3.89E+01	5.72E+01	5.72E+01	9.20E+01	9.20E+01	1.32E+02	1.32E+02	1.69E+02	1.69E+02	2.34E+02	2.34E+02	3.39E+02	3.39E+02	5.09E+02	5.10E+02
1.6E+00	1.00E+01	1.00E+01	1.98E+01	1.98E+01	3.89E+01	3.89E+01	5.73E+01	5.73E+01	9.21E+01	9.21E+01	1.32E+02	1.32E+02	1.69E+02	1.69E+02	2.34E+02	2.34E+02	3.39E+02	3.39E+02	5.10E+02	5.11E+02
1.8E+00	1.00E+01	1.00E+01	1.99E+01	1.99E+01	3.90E+01	3.90E+01	5.74E+01	5.74E+01	9.22E+01	9.22E+01	1.32E+02	1.32E+02	1.69E+02	1.69E+02	2.35E+02	2.35E+02	3.39E+02	3.40E+02	5.10E+02	5.11E+02
2.0E+00	1.00E+01	1.00E+01	1.99E+01	1.99E+01	3.90E+01	3.90E+01	5.75E+01	5.75E+01	9.24E+01	9.24E+01	1.33E+02	1.33E+02	1.70E+02	1.70E+02	2.35E+02	2.35E+02	3.40E+02	3.40E+02	5.11E+02	5.12E+02
2.4E+00	1.01E+01	1.01E+01	2.00E+01	2.00E+01	3.92E+01	3.92E+01	5.76E+01	5.76E+01	9.26E+01	9.26E+01	1.33E+02	1.33E+02	1.70E+02	1.70E+02	2.36E+02	2.36E+02	3.41E+02	3.41E+02	5.12E+02	5.13E+02
3.0E+00	1.01E+01	1.01E+01	2.00E+01	2.00E+01	3.93E+01	3.93E+01	5.79E+01	5.79E+01	9.30E+01	9.30E+01	1.34E+02	1.34E+02	1.71E+02	1.71E+02	2.36E+02	2.37E+02	3.42E+02	3.42E+02	5.13E+02	5.15E+02
4.0E+00	1.02E+01	1.02E+01	2.02E+01	2.02E+01	3.96E+01	3.96E+01	5.83E+01	5.83E+01	9.37E+01	9.37E+01	1.34E+02	1.34E+02	1.72E+02	1.72E+02	2.38E+02	2.38E+02	3.44E+02	3.44E+02	5.16E+02	5.18E+02
5.0E+00	1.03E+01	1.03E+01	2.03E+01	2.03E+01	3.99E+01	3.99E+01	5.87E+01	5.87E+01	9.43E+01	9.43E+01	1.35E+02	1.35E+02	1.73E+02	1.73E+02	2.39E+02	2.40E+02	3.46E+02	3.47E+02	5.19E+02	5.21E+02
6.0E+00	1.03E+01	1.03E+01	2.05E+01	2.05E+01	4.02E+01	4.02E+01	5.91E+01	5.91E+01	9.50E+01	9.50E+01	1.36E+02	1.36E+02	1.74E+02	1.74E+02	2.41E+02	2.41E+02	3.48E+02	3.49E+02	5.21E+02	5.25E+02
7.0E+00	1.04E+01	1.04E+01	2.06E+01	2.06E+01	4.05E+01	4.05E+01	5.96E+01	5.96E+01	9.56E+01	9.56E+01	1.37E+02	1.37E+02	1.75E+02	1.75E+02	2.43E+02	2.43E+02	3.50E+02	3.51E+02	5.24E+02	5.28E+02
8.0E+00	1.05E+01	1.05E+01	2.08E+01	2.08E+01	4.08E+01	4.08E+01	6.00E+01	6.00E+01	9.63E+01	9.63E+01	1.38E+02	1.38E+02	1.76E+02	1.77E+02	2.44E+02	2.44E+02	3.52E+02	3.53E+02	5.27E+02	5.31E+02
1.0E+01	1.06E+01	1.07E+01	2.11E+01	2.11E+01	4.14E+01	4.14E+01	6.08E+01	6.08E+01	9.77E+01	9.77E+01	1.40E+02	1.40E+02	1.79E+02	1.79E+02	2.47E+02	2.48E+02	3.56E+02	3.58E+02	5.32E+02	5.37E+02
1.5E+01	1.10E+01	1.10E+01	2.19E+01	2.19E+01	4.29E+01	4.29E+01	6.30E+01	6.30E+01	1.01E+02	1.01E+02	1.45E+02	1.45E+02	1.85E+02	1.85E+02	2.55E+02	2.56E+02	3.67E+02	3.69E+02	5.46E+02	5.53E+02
2.0E+01	1.15E+01	1.15E+01	2.27E+01	2.27E+01	4.44E+01	4.45E+01	6.53E+01	6.53E+01	1.05E+02	1.05E+02	1.50E+02	1.50E+02	1.91E+02	1.91E+02	2.64E+02	2.64E+02	3.78E+02	3.80E+02	5.61E+02	5.70E+02
3.0E+01	1.23E+01	1.24E+01	2.44E+01	2.45E+01	4.77E+01	4.79E+01	7.01E+01	7.03E+01	1.12E+02	1.12E+02	1.60E+02	1.60E+02	2.04E+02	2.04E+02	2.81E+02	2.81E+02	4.02E+02	4.03E+02	5.91E+02	6.02E+02
4.0E+01	1.32E+01	1.34E+01	2.62E+01	2.65E+01	5.12E+01	5.17E+01	7.52E+01	7.58E+01	1.20E+02	1.21E+02	1.72E+02	1.72E+02	2.18E+02	2.19E+02	3.00E+02	3.00E+02	4.26E+02	4.28E+02	6.22E+02	6.35E+02
6.0E+01	1.53E+01	1.60E+01	3.02E+01	3.15E+01	5.90E+01	6.12E+01	8.65E+01	8.93E+01	1.38E+02	1.41E+02	1.96E+02	2.00E+02	2.49E+02	2.52E+02	3.40E+02	3.41E+02	4.80E+02	4.80E+02	6.89E+02	7.02E+02
1.0E+02	2.02E+01	2.70E+01	3.98E+01	5.24E+01	7.76E+01	9.92E+01	1.14E+02	1.41E+02	1.80E+02	2.15E+02	2.55E+02	2.92E+02	3.22E+02	3.56E+02	4.36E+02	4.60E+02	6.05E+02	6.13E+02	8.45E+02	8.50E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl Data Tables 16, 201 (1975)] to energy in [keV]

Scattering angle [deg] 90.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	3.67E+00	2.44E+00	7.27E+00	4.80E+00	1.42E+01	9.30E+00	2.09E+01	1.35E+01	3.36E+01	2.12E+01	4.81E+01	2.97E+01	6.15E+01	3.70E+01	8.51E+01	4.92E+01	1.23E+02	6.66E+01	1.87E+02	9.03E+01
-6.0E+01	5.36E+00	5.00E+00	1.06E+01	9.85E+00	2.06E+01	1.91E+01	3.01E+01	2.78E+01	4.78E+01	4.37E+01	6.77E+01	6.11E+01	8.55E+01	7.64E+01	1.16E+02	1.02E+02	1.63E+02	1.38E+02	2.36E+02	1.88E+02
-4.0E+01	6.53E+00	6.41E+00	1.29E+01	1.26E+01	2.50E+01	2.44E+01	3.64E+01	3.55E+01	5.75E+01	5.57E+01	8.08E+01	7.78E+01	1.01E+02	9.71E+01	1.36E+02	1.29E+02	1.89E+02	1.75E+02	2.66E+02	2.37E+02
-3.0E+01	7.23E+00	7.17E+00	1.42E+01	1.41E+01	2.76E+01	2.73E+01	4.01E+01	3.96E+01	6.31E+01	6.21E+01	8.84E+01	8.66E+01	1.11E+02	1.08E+02	1.48E+02	1.43E+02	2.03E+02	1.93E+02	2.83E+02	2.62E+02
-2.0E+01	8.00E+00	7.98E+00	1.57E+01	1.57E+01	3.04E+01	3.03E+01	4.42E+01	4.40E+01	6.93E+01	6.88E+01	9.67E+01	9.59E+01	1.21E+02	1.19E+02	1.60E+02	1.58E+02	2.18E+02	2.13E+02	3.00E+02	2.87E+02
-1.5E+01	8.41E+00	8.41E+00	1.65E+01	1.65E+01	3.20E+01	3.19E+01	4.64E+01	4.63E+01	7.26E+01	7.23E+01	1.01E+02	1.01E+02	1.26E+02	1.25E+02	1.67E+02	1.65E+02	2.26E+02	2.22E+02	3.09E+02	3.00E+02
-1.0E+01	8.86E+00	8.85E+00	1.74E+01	1.74E+01	3.36E+01	3.36E+01	4.87E+01	4.86E+01	7.61E+01	7.60E+01	1.06E+02	1.06E+02	1.32E+02	1.31E+02	1.74E+02	1.73E+02	2.35E+02	2.32E+02	3.19E+02	3.12E+02
-8.0E+00	9.04E+00	9.04E+00	1.77E+01	1.77E+01	3.43E+01	3.42E+01	4.97E+01	4.96E+01	7.76E+01	7.75E+01	1.08E+02	1.08E+02	1.34E+02	1.34E+02	1.77E+02	1.76E+02	2.38E+02	2.36E+02	3.22E+02	3.17E+02
-7.0E+00	9.13E+00	9.13E+00	1.79E+01	1.79E+01	3.46E+01	3.46E+01	5.01E+01	5.01E+01	7.83E+01	7.82E+01	1.09E+02	1.09E+02	1.35E+02	1.35E+02	1.78E+02	1.78E+02	2.40E+02	2.38E+02	3.24E+02	3.20E+02
-6.0E+00	9.22E+00	9.22E+00	1.81E+01	1.81E+01	3.49E+01	3.49E+01	5.06E+01	5.06E+01	7.90E+01	7.90E+01	1.10E+02	1.10E+02	1.36E+02	1.36E+02	1.80E+02	1.79E+02	2.42E+02	2.40E+02	3.26E+02	3.23E+02
-5.0E+00	9.32E+00	9.32E+00	1.83E+01	1.83E+01	3.53E+01	3.53E+01	5.11E+01	5.11E+01	7.98E+01	7.97E+01	1.11E+02	1.11E+02	1.38E+02	1.37E+02	1.81E+02	1.81E+02	2.44E+02	2.42E+02	3.28E+02	3.25E+02
-4.0E+00	9.42E+00	9.41E+00	1.85E+01	1.85E+01	3.57E+01	3.56E+01	5.16E+01	5.16E+01	8.05E+01	8.05E+01	1.12E+02	1.12E+02	1.39E+02	1.39E+02	1.83E+02	1.83E+02	2.45E+02	2.45E+02	3.30E+02	3.28E+02
-3.0E+00	9.51E+00	9.51E+00	1.87E+01	1.87E+01	3.60E+01	3.60E+01	5.21E+01	5.21E+01	8.13E+01	8.13E+01	1.13E+02	1.13E+02	1.40E+02	1.40E+02	1.84E+02	1.84E+02	2.47E+02	2.47E+02	3.32E+02	3.30E+02
-2.4E+00	9.57E+00	9.57E+00	1.88E+01	1.88E+01	3.62E+01	3.62E+01	5.25E+01	5.24E+01	8.18E+01	8.17E+01	1.13E+02	1.13E+02	1.41E+02	1.41E+02	1.85E+02	1.85E+02	2.48E+02	2.48E+02	3.33E+02	3.32E+02
-2.0E+00	9.61E+00	9.61E+00	1.89E+01	1.89E+01	3.64E+01	3.64E+01	5.27E+01	5.27E+01	8.21E+01	8.21E+01	1.14E+02	1.14E+02	1.41E+02	1.41E+02	1.86E+02	1.86E+02	2.49E+02	2.49E+02	3.34E+02	3.33E+02
-1.8E+00	9.63E+00	9.63E+00	1.89E+01	1.89E+01	3.64E+01	3.64E+01	5.28E+01	5.28E+01	8.22E+01	8.22E+01	1.14E+02	1.14E+02	1.41E+02	1.41E+02	1.86E+02	1.86E+02	2.49E+02	2.49E+02	3.35E+02	3.34E+02
-1.6E+00	9.65E+00	9.65E+00	1.89E+01	1.89E+01	3.65E+01	3.65E+01	5.29E+01	5.29E+01	8.24E+01	8.24E+01	1.14E+02	1.14E+02	1.42E+02	1.42E+02	1.87E+02	1.86E+02	2.50E+02	2.49E+02	3.35E+02	3.34E+02
-1.4E+00	9.67E+00	9.67E+00	1.90E+01	1.90E+01	3.66E+01	3.66E+01	5.30E+01	5.30E+01	8.25E+01	8.25E+01	1.14E+02	1.14E+02	1.42E+02	1.42E+02	1.87E+02	1.87E+02	2.50E+02	2.50E+02	3.35E+02	3.35E+02
-1.2E+00	9.69E+00	9.69E+00	1.90E+01	1.90E+01	3.67E+01	3.67E+01	5.31E+01	5.31E+01	8.27E+01	8.27E+01	1.15E+02	1.15E+02	1.42E+02	1.42E+02	1.87E+02	1.87E+02	2.51E+02	2.50E+02	3.36E+02	3.35E+02
-1.0E+00	9.71E+00	9.71E+00	1.91E+01	1.91E+01	3.67E+01	3.67E+01	5.32E+01	5.32E+01	8.28E+01	8.28E+01	1.15E+02	1.15E+02	1.42E+02	1.42E+02	1.87E+02	1.87E+02	2.51E+02	2.51E+02	3.36E+02	3.36E+02
-8.0E-01	9.73E+00	9.73E+00	1.91E+01	1.91E+01	3.68E+01	3.68E+01	5.33E+01	5.33E+01	8.30E+01	8.30E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.88E+02	1.88E+02	2.51E+02	2.51E+02	3.37E+02	3.36E+02
-7.0E-01	9.74E+00	9.74E+00	1.91E+01	1.91E+01	3.68E+01	3.68E+01	5.33E+01	5.33E+01	8.31E+01	8.31E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.88E+02	1.88E+02	2.51E+02	2.51E+02	3.37E+02	3.36E+02
-6.0E-01	9.75E+00	9.75E+00	1.91E+01	1.91E+01	3.69E+01	3.69E+01	5.34E+01	5.34E+01	8.32E+01	8.32E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.88E+02	1.88E+02	2.52E+02	2.51E+02	3.37E+02	3.37E+02
-5.0E-01	9.76E+00	9.76E+00	1.91E+01	1.91E+01	3.69E+01	3.69E+01	5.34E+01	5.34E+01	8.32E+01	8.32E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.88E+02	1.88E+02	2.52E+02	2.52E+02	3.37E+02	3.37E+02
-4.0E-01	9.77E+00	9.77E+00	1.92E+01	1.92E+01	3.69E+01	3.69E+01	5.35E+01	5.35E+01	8.33E+01	8.33E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.88E+02	1.88E+02	2.52E+02	2.52E+02	3.37E+02	3.37E+02
-3.0E-01	9.78E+00	9.78E+00	1.92E+01	1.92E+01	3.70E+01	3.70E+01	5.35E+01	5.35E+01	8.34E+01	8.34E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.89E+02	1.89E+02	2.52E+02	2.52E+02	3.38E+02	3.37E+02
-2.0E-01	9.79E+00	9.79E+00	1.92E+01	1.92E+01	3.70E+01	3.70E+01	5.36E+01	5.36E+01	8.35E+01	8.35E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.89E+02	1.89E+02	2.52E+02	2.52E+02	3.38E+02	3.38E+02
-1.5E-01	9.79E+00	9.79E+00	1.92E+01	1.92E+01	3.70E+01	3.70E+01	5.36E+01	5.36E+01	8.35E+01	8.35E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.52E+02	2.52E+02	3.38E+02	3.38E+02
-1.0E-01	9.80E+00	9.80E+00	1.92E+01	1.92E+01	3.71E+01	3.71E+01	5.36E+01	5.36E+01	8.36E+01	8.36E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.53E+02	2.53E+02	3.38E+02	3.38E+02
-5.0E-02	9.80E+00	9.80E+00	1.92E+01	1.92E+01	3.71E+01	3.71E+01	5.37E+01	5.37E+01	8.36E+01	8.36E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.53E+02	2.53E+02	3.38E+02	3.38E+02
0.0E+00	9.81E+00	9.81E+00	1.92E+01	1.92E+01	3.71E+01	3.71E+01	5.37E+01	5.37E+01	8.36E+01	8.36E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.53E+02	2.53E+02	3.38E+02	3.38E+02
5.0E-02	9.81E+00	9.81E+00	1.93E+01	1.93E+01	3.71E+01	3.71E+01	5.37E+01	5.37E+01	8.37E+01	8.37E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.53E+02	2.53E+02	3.38E+02	3.38E+02
1.0E-01	9.82E+00	9.82E+00	1.93E+01	1.93E+01	3.71E+01	3.71E+01	5.37E+01	5.37E+01	8.37E+01	8.37E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.53E+02	2.53E+02	3.38E+02	3.38E+02
1.5E-01	9.82E+00	9.82E+00	1.93E+01	1.93E+01	3.72E+01	3.72E+01	5.38E+01	5.38E+01	8.38E+01	8.38E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.53E+02	2.53E+02	3.39E+02	3.39E+02
2.0E-01	9.83E+00	9.83E+00	1.93E+01	1.93E+01	3.72E+01	3.72E+01	5.38E+01	5.38E+01	8.38E+01	8.38E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.53E+02	2.53E+02	3.39E+02	3.39E+02
3.0E-01	9.84E+00	9.84E+00	1.93E+01	1.93E+01	3.72E+01	3.72E+01	5.39E+01	5.39E+01	8.39E+01	8.39E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.89E+02	1.90E+02	2.53E+02	2.53E+02	3.39E+02	3.39E+02
4.0E-01	9.85E+00	9.85E+00	1.93E+01	1.93E+01	3.72E+01	3.72E+01	5.39E+01	5.39E+01	8.40E+01	8.40E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.53E+02	2.54E+02	3.39E+02	3.39E+02
5.0E-01	9.86E+00	9.86E+00	1.93E+01	1.93E+01	3.73E+01	3.73E+01	5.40E+01	5.40E+01	8.40E+01	8.40E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.54E+02	2.54E+02	3.39E+02	3.40E+02
6.0E-01	9.87E+00	9.87E+00	1.94E+01	1.94E+01	3.73E+01	3.73E+01	5.40E+01	5.40E+01	8.41E+01	8.41E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.90E+02	1.90E+02	2.54E+02	2.54E+02	3.39E+02	3.40E+02
7.0E-01	9.88E+00	9.88E+00	1.94E+01	1.94E+01	3.74E+01	3.74E+01	5.41E+01	5.41E+01	8.42E+01	8.42E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.90E+02	1.90E+02	2.54E+02	2.54E+02	3.40E+02	3.40E+02
8.0E-01	9.89E+00	9.89E+00	1.94E+01	1.94E+01	3.74E+01	3.74E+01	5.41E+01	5.41E+01	8.43E+01	8.43E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.90E+02	1.90E+02	2.54E+02	2.54E+02	3.40E+02	3.40E+02
1.0E+00	9.91E+00	9.91E+00	1.94E+01	1.94E+01	3.75E+01	3.75E+01	5.42E+01	5.42E+01	8.44E+01	8.44E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.55E+02	2.55E+02	3.40E+02	3.41E+02
1.2E+00	9.93E+00	9.93E+00	1.95E+01	1.95E+01	3.75E+01	3.75E+01	5.43E+01	5.43E+01	8.46E+01	8.46E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.55E+02	2.55E+02	3.41E+02	3.41E+02
1.4E+00	9.95E+00	9.95E+00	1.95E+01	1.95E+01	3.76E+01	3.76E+01	5.44E+01	5.44E+01	8.47E+01	8.48E+01	1.17E+02	1.17E+02	1.46E+02	1.46E+02	1.91E+02	1.91E+02	2.55E+02	2.56E+02	3.41E+02	3.42E+02
1.6E+00	9.97E+00	9.97E+00	1.96E+01	1.96E+01	3.77E+01	3.77E+01	5.45E+01	5.45E+01	8.49E+01	8.49E+01	1.18E+02	1.18E+02	1.46E+02	1.46E+02	1.92E+02	1.92E+02	2.56E+02	2.56E+02	3.41E+02	3.42E+02
1.8E+00	9.99E+00	9.99E+00	1.96E+01	1.96E+01	3.78E+01	3.78E+01	5.46E+01	5.46E+01	8.51E+01	8.51E+01	1.18E+02	1.18E+02	1.46E+02	1.46E+02	1.92E+02	1.92E+02	2.56E+02	2.56E+02	3.42E+02	3.43E+02
2.0E+00	1.00E+01	1.00E+01	1.96E+01	1.96E+01	3.78E+01	3.78E+01	5.48E+01	5.48E+01	8.52E+01	8.52E+01	1.18E+02	1.18E+02	1.46E+02	1.46E+02	1.92E+02	1.92E+02	2.56E+02	2.57E+02	3.42E+02	3.43E+02
2.4E+00	1.01E+01	1.01E+01	1.97E+01	1.97E+01	3.80E+01	3.80E+01	5.50E+01	5.50E+01	8.56E+01	8.56E+01	1.19E+02	1.19E+02	1.47E+02	1.47E+02	1.93E+02	1.93E+02	2.57E+02	2.58E+02	3.43E+02	3.44E+02
3.0E+00	1.01E+01	1.01E+01	1.98E+01	1.98E+01	3.82E+01	3.82E+01	5.53E+01	5.53E+01	8.60E+01	8.61E+01	1.19E+02	1.19E+02	1.48E+02	1.48E+02	1.94E+02	1.94E+02	2.58E+02	2.59E+02	3.44E+02	3.46E+02
4.0E+00	1.02E+01	1.02E+01	2.00E+01	2.00E+01	3.86E+01	3.86E+01	5.58E+01	5.58E+01	8.69E+01	8.69E+01	1.20E+02	1.20E+02	1.49E+02	1.49E+02	1.95E+02	1.96E+02	2.60E+02	2.61E+02	3.46E+02	3.49E+02
5.0E+00	1.03E+01	1.03E+01	2.02E+01	2.02E+01	3.90E+01	3.90E+01	5.64E+01	5.64E+01	8.77E+01	8.77E+01	1.21E+02	1.21E+02	1.50E+02	1.50E+02	1.97E+02	1.97E+02	2.62E+02	2.63E+02	3.49E+02	3.51E+02
6.0E+00	1.04E+01	1.04E+01	2.05E+01	2.05E+01	3.94E+01	3.94E+01	5.69E+01	5.69E+01	8.85E+01	8.85E+01	1.22E+02	1.23E+02	1.51E+02	1.52E+02	1.99E+02	1.99E+02	2.64E+02	2.65E+02	3.51E+02	3.54E+02
7.0E+00	1.05E+01	1.05E+01	2.07E+01	2.07E+01	3.98E+01	3.98E+01	5.75E+01	5.75E+01	8.93E+01	8.94E+01	1.24E+02	1.24E+02	1.53E+02	1.53E+02	2.00E+02	2.01E+02	2.66E+02	2.67E+02	3.53E+02	3.57E+02
8.0E+00	1.06E+01	1.06E+01	2.09E+01	2.09E+01	4.02E+01	4.02E+01	5.81E+01	5.81E+01	9.02E+01	9.02E+01	1.25E+02	1.25E+02	1.54E+02	1.54E+02	2.02E+02	2.02E+02	2.68E+02	2.69E+02	3.55E+02	3.59E+02
1.0E+01	1.09E+01	1.09E+01	2.13E+01	2.13E+01	4.10E+01	4.10E+01	5.92E+01	5.92E+01	9.19E+01	9.19E+01	1.27E+02	1.27E+02	1.57E+02	1.57E+02	2.05E+02	2.06E+02	2.72E+02	2.74E+02	3.59E+02	3.64E+02
1.5E+01	1.14E+01	1.14E+01	2.24E+01	2.24E+01	4.31E+01	4.31E+01	6.22E+01	6.22E+01	9.63E+01	9.64E+01	1.33E+02	1.33E+02	1.64E+02	1.64E+02	2.14E+02	2.14E+02	2.82E+02	2.85E+02	3.70E+02	3.78E+02
2.0E+01	1.20E+01	1.21E+01	2.36E+01	2.36E+01	4.52E+01	4.53E+01	6.53E+01	6.53E+01	1.01E+02	1.01E+02	1.39E+02	1.39E+02	1.71E+02	1.71E+02	2.23E+02	2.23E+02	2.93E+02	2.96E+02	3.81E+02	3.91E+02
3.0E+01	1.33E+01	1.34E+01	2.60E+01	2.62E+01	4.99E+01	5.01E+01	7.19E+01	7.21E+01	1.11E+02	1.11E+02	1.52E+02	1.52E+02	1.87E+02	1.87E+02	2.42E+02	2.42E+02	3.15E+02	3.18E+02	4.05E+02	4.18E+02
4.0E+01	1.47E+01	1.50E+01	2.88E+01	2.92E+01	5.51E+01	5.57E+01	7.92E+01	7.98E+01	1.22E+02	1.22E+02	1.66E+02	1.67E+02	2.04E+02	2.04E+02	2.62E+02	2.62E+02	3.39E+02	3.42E+02	4.30E+02	4.46E+02
6.0E+01	1.79E+01	1.90E+01	3.50E+01	3.70E+01	6.68E+01	6.98E+01	9.57E+01	9.91E+01	1.46E+02	1.50E+02	1.99E+02	2.01E+02	2.42E+02	2.43E+02	3.08E+02	3.08E+02	3.91E+02	3.94E+02	4.84E+02	5.04E+02
1.0E+02	2.62E+01	3.78E+01	5.10E+01	7.12E+01	9.66E+01	1.28E+02	1.38E+02	1.74E+02	2.08E+02	2.45E+02	2.79E+02	3.11E+02	3.36E+02	3.60E+02	4.20E+02	4.30E+02	5.18E+02	5.18E+02	6.11E+02	6.30E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl Data Tables 16, 201 (1975)] to energy in [keV]

Scattering angle [deg] 120.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	2.99E+00	1.87E+00	5.91E+00	3.68E+00	1.15E+01	7.08E+00	1.68E+01	1.02E+01	2.68E+01	1.59E+01	3.79E+01	2.20E+01	4.80E+01	2.72E+01	6.54E+01	3.56E+01	9.25E+01	4.73E+01	1.36E+02	6.26E+01
-6.0E+01	4.68E+00	4.31E+00	9.18E+00	8.43E+00	1.77E+01	1.62E+01	2.57E+01	2.33E+01	4.01E+01	3.60E+01	5.59E+01	4.94E+01	6.96E+01	6.08E+01	9.24E+01	7.89E+01	1.26E+02	1.03E+02	1.74E+02	1.35E+02
-4.0E+01	5.93E+00	5.79E+00	1.16E+01	1.13E+01	2.23E+01	2.16E+01	3.21E+01	3.11E+01	4.97E+01	4.78E+01	6.85E+01	6.54E+01	8.46E+01	8.01E+01	1.11E+02	1.03E+02	1.47E+02	1.34E+02	1.97E+02	1.73E+02
-3.0E+01	6.70E+00	6.63E+00	1.31E+01	1.29E+01	2.51E+01	2.47E+01	3.60E+01	3.55E+01	5.55E+01	5.44E+01	7.60E+01	7.41E+01	9.34E+01	9.05E+01	1.21E+02	1.16E+02	1.59E+02	1.50E+02	2.10E+02	1.92E+02
-2.0E+01	7.58E+00	7.55E+00	1.48E+01	1.47E+01	2.82E+01	2.81E+01	4.04E+01	4.02E+01	6.19E+01	6.14E+01	8.44E+01	8.34E+01	1.03E+02	1.02E+02	1.33E+02	1.30E+02	1.73E+02	1.67E+02	2.24E+02	2.13E+02
-1.5E+01	8.06E+00	8.05E+00	1.57E+01	1.57E+01	2.99E+01	2.98E+01	4.28E+01	4.27E+01	6.54E+01	6.51E+01	8.89E+01	8.83E+01	1.08E+02	1.07E+02	1.39E+02	1.37E+02	1.80E+02	1.76E+02	2.31E+02	2.23E+02
-1.0E+01	8.58E+00	8.57E+00	1.67E+01	1.67E+01	3.18E+01	3.17E+01	4.54E+01	4.53E+01	6.92E+01	6.90E+01	9.37E+01	9.34E+01	1.14E+02	1.13E+02	1.45E+02	1.44E+02	1.87E+02	1.84E+02	2.38E+02	2.33E+02
-8.0E+00	8.79E+00	8.79E+00	1.71E+01	1.71E+01	3.25E+01	3.25E+01	4.65E+01	4.64E+01	7.07E+01	7.06E+01	9.57E+01	9.55E+01	1.16E+02	1.16E+02	1.48E+02	1.47E+02	1.90E+02	1.88E+02	2.41E+02	2.37E+02
-7.0E+00	8.90E+00	8.90E+00	1.73E+01	1.73E+01	3.29E+01	3.29E+01	4.70E+01	4.70E+01	7.15E+01	7.14E+01	9.67E+01	9.65E+01	1.17E+02	1.17E+02	1.50E+02	1.49E+02	1.92E+02	1.90E+02	2.43E+02	2.39E+02
-6.0E+00	9.02E+00	9.01E+00	1.75E+01	1.75E+01	3.33E+01	3.33E+01	4.76E+01	4.75E+01	7.23E+01	7.22E+01	9.78E+01	9.76E+01	1.19E+02	1.18E+02	1.51E+02	1.50E+02	1.93E+02	1.92E+02	2.45E+02	2.41E+02
-5.0E+00	9.13E+00	9.13E+00	1.78E+01	1.78E+01	3.37E+01	3.37E+01	4.81E+01	4.81E+01	7.31E+01	7.31E+01	9.88E+01	9.87E+01	1.20E+02	1.20E+02	1.52E+02	1.52E+02	1.95E+02	1.93E+02	2.46E+02	2.44E+02
-4.0E+00	9.24E+00	9.24E+00	1.80E+01	1.80E+01	3.41E+01	3.41E+01	4.87E+01	4.87E+01	7.39E+01	7.39E+01	9.98E+01	9.97E+01	1.21E+02	1.21E+02	1.54E+02	1.53E+02	1.96E+02	1.95E+02	2.48E+02	2.46E+02
-3.0E+00	9.36E+00	9.36E+00	1.82E+01	1.82E+01	3.45E+01	3.45E+01	4.93E+01	4.93E+01	7.48E+01	7.47E+01	1.01E+02	1.01E+02	1.22E+02	1.22E+02	1.55E+02	1.55E+02	1.98E+02	1.97E+02	2.49E+02	2.48E+02
-2.4E+00	9.43E+00	9.43E+00	1.83E+01	1.83E+01	3.48E+01	3.48E+01	4.96E+01	4.96E+01	7.53E+01	7.52E+01	1.02E+02	1.01E+02	1.23E+02	1.23E+02	1.56E+02	1.56E+02	1.99E+02	1.98E+02	2.50E+02	2.49E+02
-2.0E+00	9.48E+00	9.48E+00	1.84E+01	1.84E+01	3.50E+01	3.49E+01	4.98E+01	4.98E+01	7.56E+01	7.56E+01	1.02E+02	1.02E+02	1.24E+02	1.23E+02	1.57E+02	1.56E+02	1.99E+02	1.99E+02	2.51E+02	2.50E+02
-1.8E+00	9.50E+00	9.50E+00	1.85E+01	1.85E+01	3.50E+01	3.50E+01	5.00E+01	5.00E+01	7.58E+01	7.58E+01	1.02E+02	1.02E+02	1.24E+02	1.24E+02	1.57E+02	1.57E+02	2.00E+02	1.99E+02	2.51E+02	2.50E+02
-1.6E+00	9.52E+00	9.52E+00	1.85E+01	1.85E+01	3.51E+01	3.51E+01	5.01E+01	5.01E+01	7.59E+01	7.59E+01	1.02E+02	1.02E+02	1.24E+02	1.24E+02	1.57E+02	1.57E+02	2.00E+02	2.00E+02	2.52E+02	2.51E+02
-1.4E+00	9.55E+00	9.55E+00	1.86E+01	1.86E+01	3.52E+01	3.52E+01	5.02E+01	5.02E+01	7.61E+01	7.61E+01	1.03E+02	1.03E+02	1.24E+02	1.24E+02	1.57E+02	1.57E+02	2.00E+02	2.00E+02	2.52E+02	2.51E+02
-1.2E+00	9.57E+00	9.57E+00	1.86E+01	1.86E+01	3.53E+01	3.53E+01	5.03E+01	5.03E+01	7.63E+01	7.63E+01	1.03E+02	1.03E+02	1.25E+02	1.24E+02	1.58E+02	1.58E+02	2.01E+02	2.00E+02	2.52E+02	2.52E+02
-1.0E+00	9.59E+00	9.59E+00	1.87E+01	1.87E+01	3.54E+01	3.54E+01	5.04E+01	5.04E+01	7.65E+01	7.64E+01	1.03E+02	1.03E+02	1.25E+02	1.25E+02	1.58E+02	1.58E+02	2.01E+02	2.01E+02	2.53E+02	2.52E+02
-8.0E-01	9.62E+00	9.62E+00	1.87E+01	1.87E+01	3.55E+01	3.55E+01	5.05E+01	5.05E+01	7.66E+01	7.66E+01	1.03E+02	1.03E+02	1.25E+02	1.25E+02	1.58E+02	1.58E+02	2.01E+02	2.01E+02	2.53E+02	2.52E+02
-7.0E-01	9.63E+00	9.63E+00	1.87E+01	1.87E+01	3.55E+01	3.55E+01	5.06E+01	5.06E+01	7.67E+01	7.67E+01	1.03E+02	1.03E+02	1.25E+02	1.25E+02	1.59E+02	1.58E+02	2.01E+02	2.01E+02	2.53E+02	2.53E+02
-6.0E-01	9.64E+00	9.64E+00	1.88E+01	1.88E+01	3.55E+01	3.55E+01	5.07E+01	5.07E+01	7.68E+01	7.68E+01	1.03E+02	1.03E+02	1.25E+02	1.25E+02	1.59E+02	1.59E+02	2.02E+02	2.02E+02	2.53E+02	2.53E+02
-5.0E-01	9.65E+00	9.65E+00	1.88E+01	1.88E+01	3.56E+01	3.56E+01	5.07E+01	5.07E+01	7.69E+01	7.69E+01	1.04E+02	1.04E+02	1.25E+02	1.25E+02	1.59E+02	1.59E+02	2.02E+02	2.02E+02	2.53E+02	2.53E+02
-4.0E-01	9.67E+00	9.67E+00	1.88E+01	1.88E+01	3.56E+01	3.56E+01	5.08E+01	5.08E+01	7.70E+01	7.70E+01	1.04E+02	1.04E+02	1.26E+02	1.25E+02	1.59E+02	1.59E+02	2.02E+02	2.02E+02	2.53E+02	2.53E+02
-3.0E-01	9.68E+00	9.68E+00	1.88E+01	1.88E+01	3.57E+01	3.57E+01	5.08E+01	5.08E+01	7.71E+01	7.70E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.59E+02	1.59E+02	2.02E+02	2.02E+02	2.54E+02	2.53E+02
-2.0E-01	9.69E+00	9.69E+00	1.88E+01	1.88E+01	3.57E+01	3.57E+01	5.09E+01	5.09E+01	7.71E+01	7.71E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.59E+02	1.59E+02	2.02E+02	2.02E+02	2.54E+02	2.54E+02
-1.5E-01	9.70E+00	9.70E+00	1.89E+01	1.89E+01	3.57E+01	3.57E+01	5.09E+01	5.09E+01	7.72E+01	7.72E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.59E+02	1.59E+02	2.02E+02	2.02E+02	2.54E+02	2.54E+02
-1.0E-01	9.70E+00	9.70E+00	1.89E+01	1.89E+01	3.58E+01	3.58E+01	5.10E+01	5.10E+01	7.72E+01	7.72E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.59E+02	1.59E+02	2.02E+02	2.02E+02	2.54E+02	2.54E+02
-5.0E-02	9.71E+00	9.71E+00	1.89E+01	1.89E+01	3.58E+01	3.58E+01	5.10E+01	5.10E+01	7.73E+01	7.73E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.59E+02	1.59E+02	2.03E+02	2.03E+02	2.54E+02	2.54E+02
0.0E+00	9.71E+00	9.71E+00	1.89E+01	1.89E+01	3.58E+01	3.58E+01	5.10E+01	5.10E+01	7.73E+01	7.73E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.60E+02	1.60E+02	2.03E+02	2.03E+02	2.54E+02	2.54E+02
5.0E-02	9.72E+00	9.72E+00	1.89E+01	1.89E+01	3.58E+01	3.58E+01	5.10E+01	5.10E+01	7.74E+01	7.74E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.60E+02	1.60E+02	2.03E+02	2.03E+02	2.54E+02	2.54E+02
1.0E-01	9.73E+00	9.73E+00	1.89E+01	1.89E+01	3.58E+01	3.58E+01	5.11E+01	5.11E+01	7.74E+01	7.74E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.60E+02	1.60E+02	2.03E+02	2.03E+02	2.54E+02	2.54E+02
1.5E-01	9.73E+00	9.73E+00	1.89E+01	1.89E+01	3.59E+01	3.59E+01	5.11E+01	5.11E+01	7.74E+01	7.74E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.60E+02	1.60E+02	2.03E+02	2.03E+02	2.54E+02	2.54E+02
2.0E-01	9.74E+00	9.74E+00	1.89E+01	1.89E+01	3.59E+01	3.59E+01	5.11E+01	5.11E+01	7.75E+01	7.75E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.60E+02	1.60E+02	2.03E+02	2.03E+02	2.54E+02	2.55E+02
3.0E-01	9.75E+00	9.75E+00	1.90E+01	1.90E+01	3.59E+01	3.59E+01	5.12E+01	5.12E+01	7.76E+01	7.76E+01	1.04E+02	1.04E+02	1.26E+02	1.26E+02	1.60E+02	1.60E+02	2.03E+02	2.03E+02	2.55E+02	2.55E+02
4.0E-01	9.76E+00	9.76E+00	1.90E+01	1.90E+01	3.60E+01	3.60E+01	5.13E+01	5.13E+01	7.77E+01	7.77E+01	1.05E+02	1.05E+02	1.27E+02	1.27E+02	1.60E+02	1.60E+02	2.03E+02	2.03E+02	2.55E+02	2.55E+02
5.0E-01	9.78E+00	9.78E+00	1.90E+01	1.90E+01	3.60E+01	3.60E+01	5.13E+01	5.13E+01	7.77E+01	7.77E+01	1.05E+02	1.05E+02	1.27E+02	1.27E+02	1.60E+02	1.60E+02	2.03E+02	2.04E+02	2.55E+02	2.55E+02
6.0E-01	9.79E+00	9.79E+00	1.90E+01	1.90E+01	3.61E+01	3.61E+01	5.14E+01	5.14E+01	7.78E+01	7.78E+01	1.05E+02	1.05E+02	1.27E+02	1.27E+02	1.60E+02	1.60E+02	2.04E+02	2.04E+02	2.55E+02	2.55E+02
7.0E-01	9.80E+00	9.80E+00	1.91E+01	1.91E+01	3.61E+01	3.61E+01	5.14E+01	5.14E+01	7.79E+01	7.79E+01	1.05E+02	1.05E+02	1.27E+02	1.27E+02	1.61E+02	1.61E+02	2.04E+02	2.04E+02	2.55E+02	2.56E+02
8.0E-01	9.81E+00	9.81E+00	1.91E+01	1.91E+01	3.61E+01	3.61E+01	5.15E+01	5.15E+01	7.80E+01	7.80E+01	1.05E+02	1.05E+02	1.27E+02	1.27E+02	1.61E+02	1.61E+02	2.04E+02	2.04E+02	2.55E+02	2.56E+02
1.0E+00	9.84E+00	9.84E+00	1.91E+01	1.91E+01	3.62E+01	3.62E+01	5.16E+01	5.16E+01	7.82E+01	7.82E+01	1.05E+02	1.05E+02	1.27E+02	1.27E+02	1.61E+02	1.61E+02	2.04E+02	2.04E+02	2.56E+02	2.56E+02
1.2E+00	9.86E+00	9.86E+00	1.92E+01	1.92E+01	3.63E+01	3.63E+01	5.17E+01	5.17E+01	7.83E+01	7.84E+01	1.05E+02	1.05E+02	1.28E+02	1.28E+02	1.61E+02	1.61E+02	2.05E+02	2.05E+02	2.56E+02	2.57E+02
1.4E+00	9.89E+00	9.89E+00	1.92E+01	1.92E+01	3.64E+01	3.64E+01	5.19E+01	5.19E+01	7.85E+01	7.85E+01	1.06E+02	1.06E+02	1.28E+02	1.28E+02	1.62E+02	1.62E+02	2.05E+02	2.05E+02	2.56E+02	2.57E+02
1.6E+00	9.91E+00	9.91E+00	1.93E+01	1.93E+01	3.65E+01	3.65E+01	5.20E+01	5.20E+01	7.87E+01	7.87E+01	1.06E+02	1.06E+02	1.28E+02	1.28E+02	1.62E+02	1.62E+02	2.05E+02	2.06E+02	2.57E+02	2.58E+02
1.8E+00	9.94E+00	9.94E+00	1.93E+01	1.93E+01	3.66E+01	3.66E+01	5.21E+01	5.21E+01	7.89E+01	7.89E+01	1.06E+02	1.06E+02	1.28E+02	1.28E+02	1.62E+02	1.62E+02	2.06E+02	2.06E+02	2.57E+02	2.58E+02
2.0E+00	9.96E+00	9.96E+00	1.94E+01	1.94E+01	3.67E+01	3.67E+01	5.22E+01	5.22E+01	7.90E+01	7.91E+01	1.06E+02	1.06E+02	1.29E+02	1.29E+02	1.62E+02	1.63E+02	2.06E+02	2.06E+02	2.57E+02	2.58E+02
2.4E+00	1.00E+01	1.00E+01	1.95E+01	1.95E+01	3.68E+01	3.68E+01	5.25E+01	5.25E+01	7.94E+01	7.94E+01	1.07E+02	1.07E+02	1.29E+02	1.29E+02	1.63E+02	1.63E+02	2.07E+02	2.07E+02	2.58E+02	2.59E+02
3.0E+00	1.01E+01	1.01E+01	1.96E+01	1.96E+01	3.71E+01	3.71E+01	5.28E+01	5.28E+01	7.99E+01	8.00E+01	1.07E+02	1.08E+02	1.30E+02	1.30E+02	1.64E+02	1.64E+02	2.08E+02	2.08E+02	2.59E+02	2.61E+02
4.0E+00	1.02E+01	1.02E+01	1.98E+01	1.98E+01	3.76E+01	3.76E+01	5.35E+01	5.35E+01	8.08E+01	8.09E+01	1.09E+02	1.09E+02	1.31E+02	1.31E+02	1.66E+02	1.66E+02	2.09E+02	2.10E+02	2.61E+02	2.63E+02
5.0E+00	1.03E+01	1.03E+01	2.01E+01	2.01E+01	3.80E+01	3.80E+01	5.41E+01	5.41E+01	8.17E+01	8.18E+01	1.10E+02	1.10E+02	1.33E+02	1.33E+02	1.67E+02	1.67E+02	2.11E+02	2.12E+02	2.62E+02	2.65E+02
6.0E+00	1.05E+01	1.05E+01	2.03E+01	2.03E+01	3.85E+01	3.85E+01	5.47E+01	5.47E+01	8.26E+01	8.27E+01	1.11E+02	1.11E+02	1.34E+02	1.34E+02	1.69E+02	1.69E+02	2.13E+02	2.14E+02	2.64E+02	2.67E+02
7.0E+00	1.06E+01	1.06E+01	2.06E+01	2.06E+01	3.89E+01	3.89E+01	5.54E+01	5.54E+01	8.36E+01	8.36E+01	1.12E+02	1.12E+02	1.35E+02	1.35E+02	1.70E+02	1.71E+02	2.14E+02	2.16E+02	2.66E+02	2.69E+02
8.0E+00	1.07E+01	1.07E+01	2.08E+01	2.08E+01	3.94E+01	3.94E+01	5.60E+01	5.60E+01	8.45E+01	8.45E+01	1.13E+02	1.13E+02	1.37E+02	1.37E+02	1.72E+02	1.72E+02	2.16E+02	2.18E+02	2.67E+02	2.71E+02
1.0E+01	1.10E+01	1.10E+01	2.14E+01	2.14E+01	4.03E+01	4.03E+01	5.73E+01	5.73E+01	8.64E+01	8.64E+01	1.16E+02	1.16E+02	1.39E+02	1.40E+02	1.75E+02	1.76E+02	2.20E+02	2.22E+02	2.71E+02	2.76E+02
1.5E+01	1.17E+01	1.17E+01	2.27E+01	2.27E+01	4.28E+01	4.28E+01	6.08E+01	6.08E+01	9.13E+01	9.13E+01	1.22E+02	1.22E+02	1.46E+02	1.47E+02	1.83E+02	1.84E+02	2.29E+02	2.31E+02	2.80E+02	2.87E+02
2.0E+01	1.25E+01	1.25E+01	2.41E+01	2.42E+01	4.54E+01	4.55E+01	6.44E+01	6.44E+01	9.65E+01	9.65E+01	1.29E+02	1.29E+02	1.54E+02	1.54E+02	1.92E+02	1.93E+02	2.38E+02	2.41E+02	2.89E+02	2.98E+02
3.0E+01	1.41E+01	1.42E+01	2.73E+01	2.74E+01	5.12E+01	5.13E+01	7.22E+01	7.24E+01	1.08E+02	1.08E+02	1.43E+02	1.43E+02	1.70E+02	1.70E+02	2.11E+02	2.58E+02	2.62E+02	3.08E+02	3.21E+02	
4.0E+01	1.59E+01	1.62E+01	3.07E+01	3.12E+01	5.75E+01	5.81E+01	8.10E+01	8.16E+01	1.20E+02	1.20E+02	1.58E+02	1.58E+02	1.88E+02	1.88E+02	2.30E+02	2.31E+02	2.79E+02	2.84E+02	3.28E+02	3.44E+02
6.0E+01	2.02E+01	2.16E+01	3.89E+01	4.13E+01	7.23E+01	7.57E+01	1.01E+02	1.05E+02	1.49E+02	1.52E+02	1.94E+02	1.95E+02	2.28E+02	2.29E+02	2.75E+02	2.76E+02	3.27E+02	3.31E+02	3.72E+02	3.93E+02
1.0E+02	3.15E+01	4.73E+01	6.04E+01	8.65E+01	1.11E+02	1.48E+02	1.55E+02	1.93E+02	2.23E+02	2.58E+02	2.86E+02	3.10E+02	3.31E+02	3.46E+02	3.89E+02	3.93E+02	4.44E+02	4.45E+02	4.76E+02	4.99E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl Data Tables 16, 201 (1975)] to energy in [keV]

Scattering angle [deg] 150.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	2.65E+00	1.61E+00	5.22E+00	3.14E+00	1.01E+01	6.03E+00	1.48E+01	8.70E+00	2.33E+01	1.34E+01	3.29E+01	1.85E+01	4.14E+01	2.28E+01	5.60E+01	2.96E+01	7.82E+01	3.90E+01	1.13E+02	5.11E+01
-6.0E+01	4.30E+00	3.93E+00	8.41E+00	7.66E+00	1.61E+01	1.46E+01	2.33E+01	2.09E+01	3.60E+01	3.20E+01	4.97E+01	4.35E+01	6.14E+01	5.30E+01	8.04E+01	6.79E+01	1.08E+02	8.75E+01	1.46E+02	1.12E+02
-4.0E+01	5.58E+00	5.43E+00	1.09E+01	1.06E+01	2.07E+01	2.01E+01	2.97E+01	2.86E+01	4.54E+01	4.35E+01	6.18E+01	5.86E+01	7.55E+01	7.11E+01	9.72E+01	9.01E+01	1.27E+02	1.15E+02	1.66E+02	1.44E+02
-3.0E+01	6.39E+00	6.31E+00	1.24E+01	1.23E+01	2.36E+01	2.32E+01	3.36E+01	3.30E+01	5.11E+01	4.99E+01	6.91E+01	6.71E+01	8.39E+01	8.10E+01	1.07E+02	1.02E+02	1.38E+02	1.29E+02	1.77E+02	1.61E+02
-2.0E+01	7.32E+00	7.29E+00	1.42E+01	1.41E+01	2.68E+01	2.67E+01	3.81E+01	3.79E+01	5.76E+01	5.70E+01	7.73E+01	7.62E+01	9.33E+01	9.17E+01	1.18E+02	1.15E+02	1.50E+02	1.44E+02	1.89E+02	1.79E+02
-1.5E+01	7.84E+00	7.83E+00	1.52E+01	1.52E+01	2.87E+01	2.86E+01	4.06E+01	4.05E+01	6.11E+01	6.08E+01	8.18E+01	8.11E+01	9.84E+01	9.73E+01	1.24E+02	1.22E+02	1.56E+02	1.52E+02	1.95E+02	1.88E+02
-1.0E+01	8.40E+00	8.40E+00	1.63E+01	1.63E+01	3.06E+01	3.06E+01	4.33E+01	4.32E+01	6.49E+01	6.47E+01	8.65E+01	8.61E+01	1.04E+02	1.03E+02	1.30E+02	1.29E+02	1.63E+02	1.60E+02	2.01E+02	1.97E+02
-8.0E+00	8.64E+00	8.63E+00	1.67E+01	1.67E+01	3.14E+01	3.14E+01	4.44E+01	4.44E+01	6.65E+01	6.64E+01	8.85E+01	8.82E+01	1.06E+02	1.06E+02	1.32E+02	1.31E+02	1.65E+02	1.64E+02	2.04E+02	2.00E+02
-7.0E+00	8.76E+00	8.75E+00	1.69E+01	1.69E+01	3.18E+01	3.18E+01	4.50E+01	4.50E+01	6.73E+01	6.72E+01	8.95E+01	8.93E+01	1.07E+02	1.07E+02	1.34E+02	1.33E+02	1.67E+02	1.65E+02	2.05E+02	2.02E+02
-6.0E+00	8.88E+00	8.88E+00	1.72E+01	1.72E+01	3.23E+01	3.22E+01	4.56E+01	4.56E+01	6.81E+01	6.80E+01	9.05E+01	9.03E+01	1.08E+02	1.08E+02	1.35E+02	1.34E+02	1.68E+02	1.67E+02	2.07E+02	2.04E+02
-5.0E+00	9.00E+00	9.00E+00	1.74E+01	1.74E+01	3.27E+01	3.27E+01	4.62E+01	4.61E+01	6.90E+01	6.89E+01	9.16E+01	9.14E+01	1.10E+02	1.09E+02	1.36E+02	1.36E+02	1.70E+02	1.69E+02	2.08E+02	2.06E+02
-4.0E+00	9.13E+00	9.13E+00	1.77E+01	1.76E+01	3.31E+01	3.31E+01	4.68E+01	4.67E+01	6.98E+01	6.97E+01	9.26E+01	9.25E+01	1.11E+02	1.11E+02	1.38E+02	1.37E+02	1.71E+02	1.70E+02	2.09E+02	2.08E+02
-3.0E+00	9.26E+00	9.25E+00	1.79E+01	1.79E+01	3.36E+01	3.35E+01	4.74E+01	4.74E+01	7.06E+01	7.06E+01	9.37E+01	9.36E+01	1.12E+02	1.12E+02	1.39E+02	1.39E+02	1.73E+02	1.72E+02	2.11E+02	2.09E+02
-2.4E+00	9.33E+00	9.33E+00	1.80E+01	1.80E+01	3.38E+01	3.38E+01	4.77E+01	4.77E+01	7.12E+01	7.11E+01	9.43E+01	9.42E+01	1.13E+02	1.13E+02	1.40E+02	1.40E+02	1.73E+02	1.73E+02	2.12E+02	2.11E+02
-2.0E+00	9.38E+00	9.38E+00	1.81E+01	1.81E+01	3.40E+01	3.40E+01	4.80E+01	4.80E+01	7.15E+01	7.15E+01	9.47E+01	9.47E+01	1.13E+02	1.13E+02	1.40E+02	1.40E+02	1.74E+02	1.74E+02	2.12E+02	2.11E+02
-1.8E+00	9.41E+00	9.41E+00	1.82E+01	1.82E+01	3.41E+01	3.41E+01	4.81E+01	4.81E+01	7.17E+01	7.17E+01	9.50E+01	9.49E+01	1.13E+02	1.13E+02	1.41E+02	1.40E+02	1.74E+02	1.74E+02	2.12E+02	2.12E+02
-1.6E+00	9.44E+00	9.44E+00	1.82E+01	1.82E+01	3.42E+01	3.42E+01	4.82E+01	4.82E+01	7.19E+01	7.18E+01	9.52E+01	9.51E+01	1.14E+02	1.14E+02	1.41E+02	1.41E+02	1.75E+02	1.74E+02	2.13E+02	2.12E+02
-1.4E+00	9.46E+00	9.46E+00	1.83E+01	1.83E+01	3.43E+01	3.43E+01	4.83E+01	4.83E+01	7.20E+01	7.20E+01	9.54E+01	9.53E+01	1.14E+02	1.14E+02	1.41E+02	1.41E+02	1.75E+02	1.75E+02	2.13E+02	2.12E+02
-1.2E+00	9.49E+00	9.49E+00	1.83E+01	1.83E+01	3.44E+01	3.44E+01	4.85E+01	4.85E+01	7.22E+01	7.22E+01	9.56E+01	9.56E+01	1.14E+02	1.14E+02	1.42E+02	1.41E+02	1.75E+02	1.75E+02	2.13E+02	2.13E+02
-1.0E+00	9.52E+00	9.51E+00	1.84E+01	1.84E+01	3.44E+01	3.44E+01	4.86E+01	4.86E+01	7.24E+01	7.24E+01	9.58E+01	9.58E+01	1.14E+02	1.14E+02	1.42E+02	1.42E+02	1.75E+02	1.75E+02	2.14E+02	2.13E+02
-8.0E-01	9.54E+00	9.54E+00	1.84E+01	1.84E+01	3.45E+01	3.45E+01	4.87E+01	4.87E+01	7.25E+01	7.25E+01	9.60E+01	9.60E+01	1.15E+02	1.15E+02	1.42E+02	1.42E+02	1.76E+02	1.76E+02	2.14E+02	2.13E+02
-7.0E-01	9.55E+00	9.55E+00	1.85E+01	1.85E+01	3.46E+01	3.46E+01	4.88E+01	4.88E+01	7.26E+01	7.26E+01	9.62E+01	9.61E+01	1.15E+02	1.15E+02	1.42E+02	1.42E+02	1.76E+02	1.76E+02	2.14E+02	2.14E+02
-6.0E-01	9.57E+00	9.57E+00	1.85E+01	1.85E+01	3.46E+01	3.46E+01	4.88E+01	4.88E+01	7.27E+01	7.27E+01	9.63E+01	9.62E+01	1.15E+02	1.15E+02	1.42E+02	1.42E+02	1.76E+02	1.76E+02	2.14E+02	2.14E+02
-5.0E-01	9.58E+00	9.58E+00	1.85E+01	1.85E+01	3.47E+01	3.47E+01	4.89E+01	4.89E+01	7.28E+01	7.28E+01	9.64E+01	9.64E+01	1.15E+02	1.15E+02	1.42E+02	1.42E+02	1.76E+02	1.76E+02	2.14E+02	2.14E+02
-4.0E-01	9.59E+00	9.59E+00	1.85E+01	1.85E+01	3.47E+01	3.47E+01	4.90E+01	4.90E+01	7.29E+01	7.29E+01	9.65E+01	9.65E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.76E+02	1.76E+02	2.14E+02	2.14E+02
-3.0E-01	9.61E+00	9.61E+00	1.86E+01	1.86E+01	3.48E+01	3.48E+01	4.90E+01	4.90E+01	7.30E+01	7.30E+01	9.66E+01	9.66E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.77E+02	1.76E+02	2.15E+02	2.14E+02
-2.0E-01	9.62E+00	9.62E+00	1.86E+01	1.86E+01	3.48E+01	3.48E+01	4.91E+01	4.91E+01	7.31E+01	7.31E+01	9.67E+01	9.67E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
-1.5E-01	9.63E+00	9.63E+00	1.86E+01	1.86E+01	3.48E+01	3.48E+01	4.91E+01	4.91E+01	7.31E+01	7.31E+01	9.68E+01	9.67E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
-1.0E-01	9.63E+00	9.63E+00	1.86E+01	1.86E+01	3.49E+01	3.49E+01	4.92E+01	4.92E+01	7.32E+01	7.32E+01	9.68E+01	9.68E+01	1.15E+02	1.15E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
-5.0E-02	9.64E+00	9.64E+00	1.86E+01	1.86E+01	3.49E+01	3.49E+01	4.92E+01	4.92E+01	7.32E+01	7.32E+01	9.69E+01	9.69E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
0.0E+00	9.65E+00	9.65E+00	1.86E+01	1.86E+01	3.49E+01	3.49E+01	4.92E+01	4.92E+01	7.33E+01	7.33E+01	9.69E+01	9.69E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
5.0E-02	9.65E+00	9.65E+00	1.87E+01	1.87E+01	3.49E+01	3.49E+01	4.92E+01	4.92E+01	7.33E+01	7.33E+01	9.70E+01	9.70E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
1.0E-01	9.66E+00	9.66E+00	1.87E+01	1.87E+01	3.49E+01	3.49E+01	4.93E+01	4.93E+01	7.33E+01	7.33E+01	9.70E+01	9.70E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
1.5E-01	9.67E+00	9.67E+00	1.87E+01	1.87E+01	3.50E+01	3.50E+01	4.93E+01	4.93E+01	7.34E+01	7.34E+01	9.71E+01	9.71E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
2.0E-01	9.67E+00	9.67E+00	1.87E+01	1.87E+01	3.50E+01	3.50E+01	4.93E+01	4.93E+01	7.34E+01	7.34E+01	9.71E+01	9.71E+01	1.16E+02	1.16E+02	1.43E+02	1.43E+02	1.77E+02	1.77E+02	2.15E+02	2.15E+02
3.0E-01	9.69E+00	9.69E+00	1.87E+01	1.87E+01	3.50E+01	3.50E+01	4.94E+01	4.94E+01	7.35E+01	7.35E+01	9.72E+01	9.73E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.77E+02	1.77E+02	2.15E+02	2.16E+02
4.0E-01	9.70E+00	9.70E+00	1.87E+01	1.87E+01	3.51E+01	3.51E+01	4.95E+01	4.95E+01	7.36E+01	7.36E+01	9.74E+01	9.74E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.78E+02	1.78E+02	2.16E+02	2.16E+02
5.0E-01	9.71E+00	9.71E+00	1.88E+01	1.88E+01	3.51E+01	3.51E+01	4.95E+01	4.95E+01	7.37E+01	7.37E+01	9.75E+01	9.75E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.78E+02	1.78E+02	2.16E+02	2.16E+02
6.0E-01	9.73E+00	9.73E+00	1.88E+01	1.88E+01	3.52E+01	3.52E+01	4.96E+01	4.96E+01	7.38E+01	7.38E+01	9.76E+01	9.76E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.78E+02	1.78E+02	2.16E+02	2.16E+02
7.0E-01	9.74E+00	9.74E+00	1.88E+01	1.88E+01	3.52E+01	3.52E+01	4.97E+01	4.97E+01	7.39E+01	7.39E+01	9.77E+01	9.77E+01	1.16E+02	1.16E+02	1.44E+02	1.44E+02	1.78E+02	1.78E+02	2.16E+02	2.16E+02
8.0E-01	9.76E+00	9.76E+00	1.88E+01	1.88E+01	3.53E+01	3.53E+01	4.97E+01	4.97E+01	7.40E+01	7.40E+01	9.78E+01	9.78E+01	1.17E+02	1.17E+02	1.44E+02	1.44E+02	1.78E+02	1.78E+02	2.16E+02	2.16E+02
1.0E+00	9.78E+00	9.78E+00	1.89E+01	1.89E+01	3.54E+01	3.54E+01	4.98E+01	4.99E+01	7.41E+01	7.42E+01	9.80E+01	9.80E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.78E+02	1.79E+02	2.16E+02	2.17E+02
1.2E+00	9.81E+00	9.81E+00	1.89E+01	1.89E+01	3.55E+01	3.55E+01	5.00E+01	5.00E+01	7.43E+01	7.43E+01	9.82E+01	9.83E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.79E+02	1.79E+02	2.17E+02	2.17E+02
1.4E+00	9.84E+00	9.84E+00	1.90E+01	1.90E+01	3.56E+01	3.56E+01	5.01E+01	5.01E+01	7.45E+01	7.45E+01	9.85E+01	9.85E+01	1.17E+02	1.17E+02	1.45E+02	1.45E+02	1.79E+02	1.79E+02	2.17E+02	2.18E+02
1.6E+00	9.86E+00	9.86E+00	1.90E+01	1.90E+01	3.56E+01	3.56E+01	5.02E+01	5.02E+01	7.47E+01	7.47E+01	9.87E+01	9.87E+01	1.18E+02	1.18E+02	1.45E+02	1.46E+02	1.79E+02	1.80E+02	2.17E+02	2.18E+02
1.8E+00	9.89E+00	9.89E+00	1.91E+01	1.91E+01	3.57E+01	3.57E+01	5.04E+01	5.04E+01	7.49E+01	7.49E+01	9.89E+01	9.90E+01	1.18E+02	1.18E+02	1.46E+02	1.46E+02	1.80E+02	1.80E+02	2.18E+02	2.18E+02
2.0E+00	9.92E+00	9.92E+00	1.92E+01	1.92E+01	3.58E+01	3.58E+01	5.05E+01	5.05E+01	7.50E+01	7.51E+01	9.91E+01	9.92E+01	1.18E+02	1.18E+02	1.46E+02	1.46E+02	1.80E+02	1.80E+02	2.18E+02	2.19E+02
2.4E+00	9.97E+00	9.97E+00	1.93E+01	1.93E+01	3.60E+01	3.60E+01	5.07E+01	5.08E+01	7.54E+01	7.54E+01	9.96E+01	9.97E+01	1.19E+02	1.19E+02	1.47E+02	1.47E+02	1.81E+02	1.81E+02	2.18E+02	2.19E+02
3.0E+00	1.01E+01	1.01E+01	1.94E+01	1.94E+01	3.63E+01	3.63E+01	5.11E+01	5.11E+01	7.60E+01	7.60E+01	1.00E+02	1.00E+02	1.19E+02	1.20E+02	1.47E+02	1.48E+02	1.81E+02	1.82E+02	2.19E+02	2.21E+02
4.0E+00	1.02E+01	1.02E+01	1.97E+01	1.97E+01	3.68E+01	3.68E+01	5.18E+01	5.18E+01	7.69E+01	7.69E+01	1.01E+02	1.02E+02	1.21E+02	1.21E+02	1.49E+02	1.49E+02	1.83E+02	1.84E+02	2.21E+02	2.23E+02
5.0E+00	1.03E+01	1.03E+01	2.00E+01	2.00E+01	3.73E+01	3.73E+01	5.25E+01	5.25E+01	7.78E+01	7.78E+01	1.03E+02	1.03E+02	1.22E+02	1.22E+02	1.50E+02	1.51E+02	1.85E+02	1.86E+02	2.22E+02	2.24E+02
6.0E+00	1.05E+01	1.05E+01	2.02E+01	2.02E+01	3.78E+01	3.78E+01	5.31E+01	5.31E+01	7.88E+01	7.88E+01	1.04E+02	1.04E+02	1.23E+02	1.24E+02	1.52E+02	1.52E+02	1.86E+02	1.87E+02	2.24E+02	2.26E+02
7.0E+00	1.06E+01	1.06E+01	2.05E+01	2.05E+01	3.83E+01	3.83E+01	5.38E+01	5.38E+01	7.97E+01	7.98E+01	1.05E+02	1.05E+02	1.25E+02	1.25E+02	1.53E+02	1.54E+02	1.88E+02	1.89E+02	2.25E+02	2.28E+02
8.0E+00	1.08E+01	1.08E+01	2.08E+01	2.08E+01	3.88E+01	3.88E+01	5.45E+01	5.45E+01	8.07E+01	8.07E+01	1.06E+02	1.06E+02	1.26E+02	1.26E+02	1.55E+02	1.55E+02	1.89E+02	1.91E+02	2.27E+02	2.30E+02
1.0E+01	1.11E+01	1.11E+01	2.14E+01	2.14E+01	3.98E+01	3.98E+01	5.59E+01	5.59E+01	8.26E+01	8.27E+01	1.09E+02	1.09E+02	1.29E+02	1.29E+02	1.58E+02	1.59E+02	1.92E+02	1.94E+02	2.30E+02	2.34E+02
1.5E+01	1.19E+01	1.19E+01	2.29E+01	2.29E+01	4.25E+01	4.25E+01	5.96E+01	5.96E+01	8.78E+01	8.78E+01	1.15E+02	1.15E+02	1.36E+02	1.36E+02	1.66E+02	1.67E+02	2.01E+02	2.03E+02	2.37E+02	2.44E+02
2.0E+01	1.27E+01	1.27E+01	2.45E+01	2.45E+01	4.54E+01	4.54E+01	6.35E+01	6.35E+01	9.32E+01	9.32E+01	1.22E+02	1.22E+02	1.43E+02	1.44E+02	1.74E+02	1.75E+02	2.09E+02	2.13E+02	2.45E+02	2.53E+02
3.0E+01	1.46E+01	1.47E+01	2.80E+01	2.81E+01	5.17E+01	5.19E+01	7.20E+01	7.22E+01	1.05E+02	1.05E+02	1.36E+02	1.36E+02	1.59E+02	1.60E+02	1.92E+02	1.93E+02	2.27E+02	2.32E+02	2.61E+02	2.74E+02
4.0E+01	1.67E+01	1.70E+01	3.19E+01	3.25E+01	5.88E+01	5.94E+01	8.16E+01	8.21E+01	1.18E+02	1.18E+02	1.52E+02	1.52E+02	1.77E+02	1.77E+02	2.11E+02	2.12E+02	2.47E+02	2.52E+02	2.79E+02	2.94E+02
6.0E+01	2.17E+01	2.33E+01	4.13E+01	4.40E+01	7.55E+01	7.90E+01	1.04E+02	1.08E+02	1.49E+02	1.51E+02	1.89E+02	1.90E+02	2.18E+02	2.18E+02	2.55E+02	2.55E+02	2.91E+02	2.96E+02	3.17E+02	3.38E+02
1.0E+02	3.52E+01	5.37E+01	6.66E+01	9.61E+01	1.20E+02	1.59E+02	1.64E+02	2.03E+02	2.30E+02	2.61E+02	2.85E+02	3.05E+02	3.23E+02	3.33E+02	3.66E+02	3.68E+02	4.00E+02	4.02E+02	4.09E+02	4.33E+02

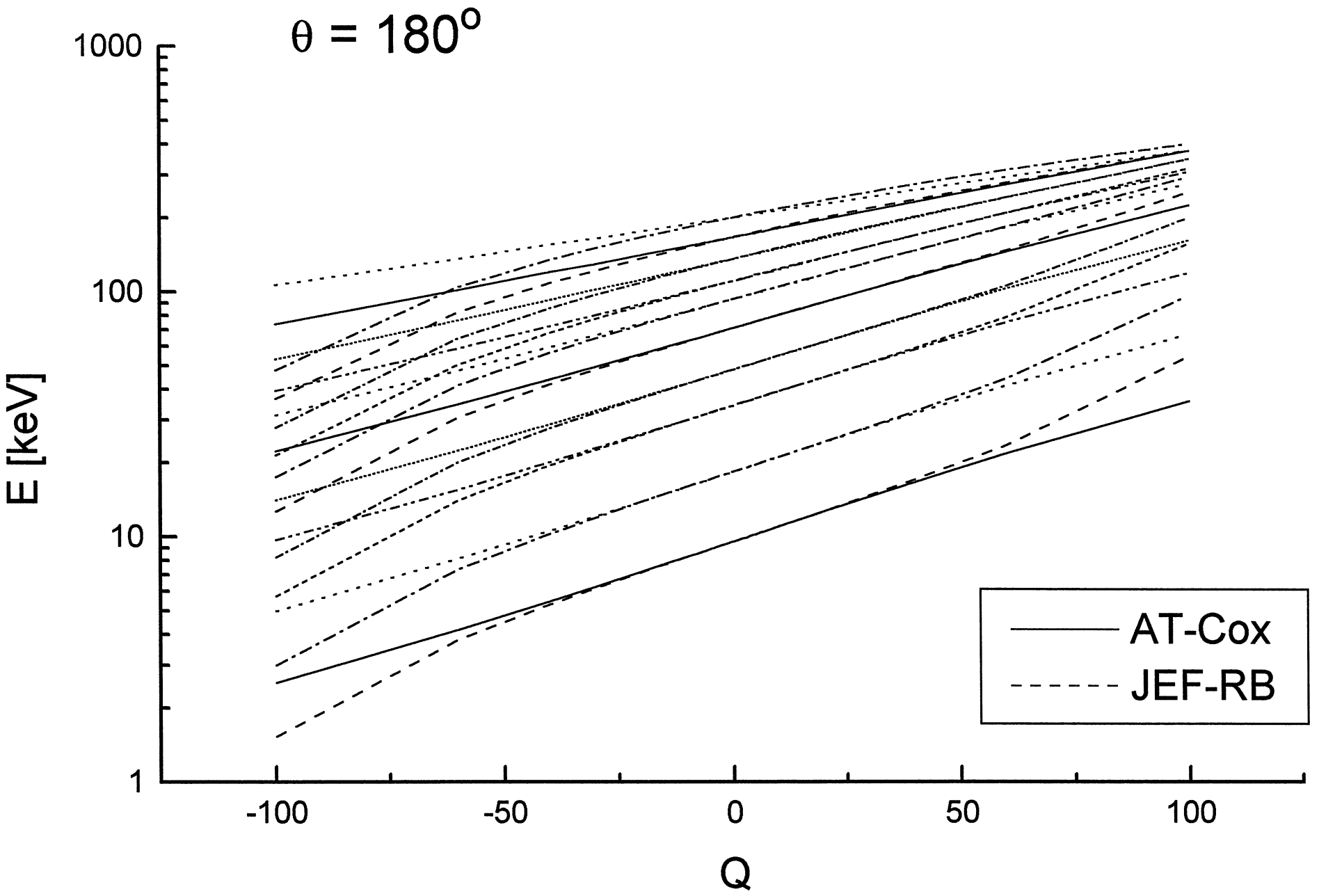
AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl Data Tables 16, 201 (1975)] to energy in [keV]

Scattering angle [deg] 180.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	2.54E+00	1.53E+00	5.00E+00	2.99E+00	9.71E+00	5.73E+00	1.41E+01	8.25E+00	2.23E+01	1.27E+01	3.14E+01	1.75E+01	3.94E+01	2.15E+01	5.32E+01	2.79E+01	7.41E+01	3.66E+01	1.07E+02	4.79E+01
-6.0E+01	4.18E+00	3.81E+00	8.17E+00	7.41E+00	1.56E+01	1.41E+01	2.25E+01	2.02E+01	3.48E+01	3.07E+01	4.78E+01	4.16E+01	5.89E+01	5.06E+01	7.68E+01	6.46E+01	1.02E+02	8.28E+01	1.37E+02	1.05E+02
-4.0E+01	5.47E+00	5.32E+00	1.06E+01	1.03E+01	2.02E+01	1.96E+01	2.89E+01	2.78E+01	4.40E+01	4.21E+01	5.97E+01	5.65E+01	7.27E+01	6.83E+01	9.31E+01	8.61E+01	1.21E+02	1.09E+02	1.57E+02	1.36E+02
-3.0E+01	6.28E+00	6.21E+00	1.22E+01	1.20E+01	2.31E+01	2.27E+01	3.28E+01	3.22E+01	4.97E+01	4.85E+01	6.69E+01	6.49E+01	8.09E+01	7.80E+01	1.03E+02	9.79E+01	1.31E+02	1.23E+02	1.67E+02	1.52E+02
-2.0E+01	7.23E+00	7.21E+00	1.40E+01	1.40E+01	2.64E+01	2.62E+01	3.74E+01	3.71E+01	5.61E+01	5.56E+01	7.50E+01	7.39E+01	9.02E+01	8.86E+01	1.13E+02	1.10E+02	1.43E+02	1.38E+02	1.78E+02	1.69E+02
-1.5E+01	7.77E+00	7.75E+00	1.50E+01	1.50E+01	2.82E+01	2.81E+01	3.99E+01	3.97E+01	5.97E+01	5.93E+01	7.95E+01	7.87E+01	9.52E+01	9.41E+01	1.19E+02	1.17E+02	1.49E+02	1.45E+02	1.84E+02	1.77E+02
-1.0E+01	8.34E+00	8.34E+00	1.61E+01	1.61E+01	3.02E+01	3.02E+01	4.26E+01	4.25E+01	6.35E+01	6.33E+01	8.42E+01	8.38E+01	1.01E+02	9.99E+01	1.25E+02	1.24E+02	1.55E+02	1.53E+02	1.91E+02	1.86E+02
-8.0E+00	8.58E+00	8.58E+00	1.66E+01	1.66E+01	3.10E+01	3.10E+01	4.37E+01	4.37E+01	6.51E+01	6.49E+01	8.62E+01	8.58E+01	1.03E+02	1.02E+02	1.27E+02	1.27E+02	1.58E+02	1.56E+02	1.93E+02	1.89E+02
-7.0E+00	8.71E+00	8.70E+00	1.68E+01	1.68E+01	3.15E+01	3.14E+01	4.43E+01	4.43E+01	6.59E+01	6.58E+01	8.72E+01	8.69E+01	1.04E+02	1.03E+02	1.29E+02	1.28E+02	1.59E+02	1.58E+02	1.94E+02	1.91E+02
-6.0E+00	8.83E+00	8.83E+00	1.70E+01	1.70E+01	3.19E+01	3.19E+01	4.49E+01	4.49E+01	6.67E+01	6.66E+01	8.82E+01	8.79E+01	1.05E+02	1.05E+02	1.30E+02	1.29E+02	1.61E+02	1.59E+02	1.96E+02	1.93E+02
-5.0E+00	8.96E+00	8.96E+00	1.73E+01	1.73E+01	3.23E+01	3.23E+01	4.55E+01	4.55E+01	6.76E+01	6.75E+01	8.92E+01	8.90E+01	1.06E+02	1.06E+02	1.31E+02	1.31E+02	1.62E+02	1.61E+02	1.97E+02	1.95E+02
-4.0E+00	9.09E+00	9.09E+00	1.75E+01	1.75E+01	3.28E+01	3.27E+01	4.61E+01	4.61E+01	6.84E+01	6.83E+01	9.02E+01	9.01E+01	1.07E+02	1.07E+02	1.33E+02	1.32E+02	1.63E+02	1.62E+02	1.98E+02	1.96E+02
-3.0E+00	9.22E+00	9.22E+00	1.78E+01	1.78E+01	3.32E+01	3.32E+01	4.67E+01	4.67E+01	6.93E+01	6.92E+01	9.13E+01	9.12E+01	1.09E+02	1.08E+02	1.34E+02	1.34E+02	1.65E+02	1.64E+02	2.00E+02	1.98E+02
-2.4E+00	9.30E+00	9.30E+00	1.79E+01	1.79E+01	3.35E+01	3.35E+01	4.71E+01	4.71E+01	6.98E+01	6.97E+01	9.19E+01	9.18E+01	1.09E+02	1.09E+02	1.35E+02	1.34E+02	1.66E+02	1.65E+02	2.00E+02	1.99E+02
-2.0E+00	9.35E+00	9.35E+00	1.80E+01	1.80E+01	3.37E+01	3.37E+01	4.73E+01	4.73E+01	7.01E+01	7.01E+01	9.24E+01	9.23E+01	1.10E+02	1.10E+02	1.35E+02	1.35E+02	1.66E+02	1.66E+02	2.01E+02	2.00E+02
-1.8E+00	9.38E+00	9.38E+00	1.81E+01	1.81E+01	3.38E+01	3.37E+01	4.75E+01	4.74E+01	7.03E+01	7.03E+01	9.26E+01	9.25E+01	1.10E+02	1.10E+02	1.36E+02	1.35E+02	1.67E+02	1.66E+02	2.01E+02	2.00E+02
-1.6E+00	9.41E+00	9.41E+00	1.81E+01	1.81E+01	3.38E+01	3.38E+01	4.76E+01	4.76E+01	7.05E+01	7.04E+01	9.28E+01	9.27E+01	1.10E+02	1.10E+02	1.36E+02	1.36E+02	1.67E+02	1.66E+02	2.01E+02	2.01E+02
-1.4E+00	9.43E+00	9.43E+00	1.82E+01	1.82E+01	3.39E+01	3.39E+01	4.77E+01	4.77E+01	7.06E+01	7.06E+01	9.30E+01	9.30E+01	1.10E+02	1.10E+02	1.36E+02	1.36E+02	1.67E+02	1.67E+02	2.02E+02	2.01E+02
-1.2E+00	9.46E+00	9.46E+00	1.82E+01	1.82E+01	3.40E+01	3.40E+01	4.78E+01	4.78E+01	7.08E+01	7.08E+01	9.32E+01	9.32E+01	1.11E+02	1.11E+02	1.36E+02	1.36E+02	1.67E+02	1.67E+02	2.02E+02	2.01E+02
-1.0E+00	9.49E+00	9.49E+00	1.83E+01	1.83E+01	3.41E+01	3.41E+01	4.80E+01	4.80E+01	7.10E+01	7.10E+01	9.34E+01	9.34E+01	1.11E+02	1.11E+02	1.37E+02	1.37E+02	1.68E+02	1.67E+02	2.02E+02	2.02E+02
-8.0E-01	9.51E+00	9.51E+00	1.83E+01	1.83E+01	3.42E+01	3.42E+01	4.81E+01	4.81E+01	7.12E+01	7.12E+01	9.36E+01	9.36E+01	1.11E+02	1.11E+02	1.37E+02	1.37E+02	1.68E+02	1.68E+02	2.02E+02	2.02E+02
-7.0E-01	9.53E+00	9.53E+00	1.84E+01	1.84E+01	3.43E+01	3.43E+01	4.81E+01	4.81E+01	7.13E+01	7.12E+01	9.38E+01	9.37E+01	1.11E+02	1.11E+02	1.37E+02	1.37E+02	1.68E+02	1.68E+02	2.03E+02	2.02E+02
-6.0E-01	9.54E+00	9.54E+00	1.84E+01	1.84E+01	3.43E+01	3.43E+01	4.82E+01	4.82E+01	7.13E+01	7.13E+01	9.39E+01	9.38E+01	1.11E+02	1.11E+02	1.37E+02	1.37E+02	1.68E+02	1.68E+02	2.03E+02	2.02E+02
-5.0E-01	9.55E+00	9.55E+00	1.84E+01	1.84E+01	3.44E+01	3.44E+01	4.83E+01	4.83E+01	7.14E+01	7.14E+01	9.40E+01	9.40E+01	1.12E+02	1.12E+02	1.37E+02	1.37E+02	1.68E+02	1.68E+02	2.03E+02	2.03E+02
-4.0E-01	9.57E+00	9.57E+00	1.84E+01	1.84E+01	3.44E+01	3.44E+01	4.83E+01	4.83E+01	7.15E+01	7.15E+01	9.41E+01	9.41E+01	1.12E+02	1.12E+02	1.37E+02	1.37E+02	1.69E+02	1.68E+02	2.03E+02	2.03E+02
-3.0E-01	9.58E+00	9.58E+00	1.85E+01	1.85E+01	3.44E+01	3.44E+01	4.84E+01	4.84E+01	7.16E+01	7.16E+01	9.42E+01	9.42E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.03E+02	2.03E+02
-2.0E-01	9.60E+00	9.60E+00	1.85E+01	1.85E+01	3.45E+01	3.45E+01	4.85E+01	4.85E+01	7.17E+01	7.17E+01	9.43E+01	9.43E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.03E+02	2.03E+02
-1.5E-01	9.60E+00	9.60E+00	1.85E+01	1.85E+01	3.45E+01	3.45E+01	4.85E+01	4.85E+01	7.17E+01	7.17E+01	9.44E+01	9.43E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.03E+02	2.03E+02
-1.0E-01	9.61E+00	9.61E+00	1.85E+01	1.85E+01	3.45E+01	3.45E+01	4.85E+01	4.85E+01	7.18E+01	7.18E+01	9.44E+01	9.44E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.03E+02	2.03E+02
-5.0E-02	9.62E+00	9.62E+00	1.85E+01	1.85E+01	3.46E+01	3.46E+01	4.86E+01	4.86E+01	7.18E+01	7.18E+01	9.45E+01	9.45E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.03E+02	2.03E+02
0.0E+00	9.62E+00	9.62E+00	1.85E+01	1.85E+01	3.46E+01	3.46E+01	4.86E+01	4.86E+01	7.19E+01	7.19E+01	9.45E+01	9.45E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.03E+02	2.03E+02
5.0E-02	9.63E+00	9.63E+00	1.86E+01	1.86E+01	3.46E+01	3.46E+01	4.86E+01	4.86E+01	7.19E+01	7.19E+01	9.46E+01	9.46E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.04E+02	2.04E+02
1.0E-01	9.64E+00	9.64E+00	1.86E+01	1.86E+01	3.46E+01	3.46E+01	4.87E+01	4.87E+01	7.20E+01	7.20E+01	9.46E+01	9.46E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.04E+02	2.04E+02
1.5E-01	9.64E+00	9.64E+00	1.86E+01	1.86E+01	3.47E+01	3.47E+01	4.87E+01	4.87E+01	7.20E+01	7.20E+01	9.47E+01	9.47E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.04E+02	2.04E+02
2.0E-01	9.65E+00	9.65E+00	1.86E+01	1.86E+01	3.47E+01	3.47E+01	4.87E+01	4.87E+01	7.21E+01	7.21E+01	9.47E+01	9.47E+01	1.12E+02	1.12E+02	1.38E+02	1.38E+02	1.69E+02	1.69E+02	2.04E+02	2.04E+02
3.0E-01	9.66E+00	9.66E+00	1.86E+01	1.86E+01	3.47E+01	3.47E+01	4.88E+01	4.88E+01	7.21E+01	7.21E+01	9.48E+01	9.49E+01	1.13E+02	1.13E+02	1.38E+02	1.38E+02	1.70E+02	1.70E+02	2.04E+02	2.04E+02
4.0E-01	9.68E+00	9.68E+00	1.87E+01	1.87E+01	3.48E+01	3.48E+01	4.88E+01	4.88E+01	7.22E+01	7.22E+01	9.50E+01	9.50E+01	1.13E+02	1.13E+02	1.39E+02	1.39E+02	1.70E+02	1.70E+02	2.04E+02	2.04E+02
5.0E-01	9.69E+00	9.69E+00	1.87E+01	1.87E+01	3.48E+01	3.48E+01	4.89E+01	4.89E+01	7.23E+01	7.23E+01	9.51E+01	9.51E+01	1.13E+02	1.13E+02	1.39E+02	1.39E+02	1.70E+02	1.70E+02	2.04E+02	2.04E+02
6.0E-01	9.71E+00	9.71E+00	1.87E+01	1.87E+01	3.49E+01	3.49E+01	4.90E+01	4.90E+01	7.24E+01	7.24E+01	9.52E+01	9.52E+01	1.13E+02	1.13E+02	1.39E+02	1.39E+02	1.70E+02	1.70E+02	2.04E+02	2.05E+02
7.0E-01	9.72E+00	9.72E+00	1.87E+01	1.87E+01	3.49E+01	3.49E+01	4.90E+01	4.90E+01	7.25E+01	7.25E+01	9.53E+01	9.53E+01	1.13E+02	1.13E+02	1.39E+02	1.39E+02	1.70E+02	1.70E+02	2.04E+02	2.05E+02
8.0E-01	9.73E+00	9.73E+00	1.88E+01	1.88E+01	3.50E+01	3.50E+01	4.91E+01	4.91E+01	7.26E+01	7.26E+01	9.54E+01	9.54E+01	1.13E+02	1.13E+02	1.39E+02	1.39E+02	1.70E+02	1.70E+02	2.05E+02	2.05E+02
1.0E+00	9.76E+00	9.76E+00	1.88E+01	1.88E+01	3.51E+01	3.51E+01	4.92E+01	4.92E+01	7.28E+01	7.28E+01	9.56E+01	9.56E+01	1.13E+02	1.13E+02	1.39E+02	1.39E+02	1.71E+02	1.71E+02	2.05E+02	2.05E+02
1.2E+00	9.79E+00	9.79E+00	1.89E+01	1.89E+01	3.52E+01	3.52E+01	4.94E+01	4.94E+01	7.29E+01	7.30E+01	9.58E+01	9.59E+01	1.14E+02	1.14E+02	1.40E+02	1.40E+02	1.71E+02	1.71E+02	2.05E+02	2.06E+02
1.4E+00	9.82E+00	9.82E+00	1.89E+01	1.89E+01	3.52E+01	3.53E+01	4.95E+01	4.95E+01	7.31E+01	7.31E+01	9.61E+01	9.61E+01	1.14E+02	1.14E+02	1.40E+02	1.40E+02	1.71E+02	1.71E+02	2.05E+02	2.06E+02
1.6E+00	9.85E+00	9.85E+00	1.90E+01	1.90E+01	3.53E+01	3.53E+01	4.96E+01	4.96E+01	7.33E+01	7.33E+01	9.63E+01	9.63E+01	1.14E+02	1.14E+02	1.40E+02	1.40E+02	1.71E+02	1.72E+02	2.06E+02	2.06E+02
1.8E+00	9.87E+00	9.87E+00	1.90E+01	1.90E+01	3.54E+01	3.54E+01	4.98E+01	4.98E+01	7.35E+01	7.35E+01	9.65E+01	9.66E+01	1.14E+02	1.15E+02	1.40E+02	1.41E+02	1.72E+02	1.72E+02	2.06E+02	2.07E+02
2.0E+00	9.90E+00	9.90E+00	1.91E+01	1.91E+01	3.55E+01	3.55E+01	4.99E+01	4.99E+01	7.37E+01	7.37E+01	9.67E+01	9.68E+01	1.15E+02	1.15E+02	1.41E+02	1.41E+02	1.72E+02	1.72E+02	2.06E+02	2.07E+02
2.4E+00	9.96E+00	9.96E+00	1.92E+01	1.92E+01	3.57E+01	3.57E+01	5.01E+01	5.02E+01	7.40E+01	7.41E+01	9.72E+01	9.72E+01	1.15E+02	1.15E+02	1.41E+02	1.42E+02	1.73E+02	1.73E+02	2.07E+02	2.08E+02
3.0E+00	1.00E+01	1.00E+01	1.93E+01	1.93E+01	3.60E+01	3.60E+01	5.05E+01	5.06E+01	7.46E+01	7.46E+01	9.79E+01	9.79E+01	1.16E+02	1.16E+02	1.42E+02	1.42E+02	1.73E+02	1.74E+02	2.08E+02	2.09E+02
4.0E+00	1.02E+01	1.02E+01	1.96E+01	1.96E+01	3.65E+01	3.65E+01	5.12E+01	5.12E+01	7.55E+01	7.56E+01	9.90E+01	9.91E+01	1.17E+02	1.17E+02	1.44E+02	1.44E+02	1.75E+02	1.76E+02	2.09E+02	2.11E+02
5.0E+00	1.03E+01	1.03E+01	1.99E+01	1.99E+01	3.70E+01	3.70E+01	5.19E+01	5.19E+01	7.65E+01	7.65E+01	1.00E+02	1.00E+02	1.18E+02	1.19E+02	1.45E+02	1.45E+02	1.76E+02	1.77E+02	2.10E+02	2.13E+02
6.0E+00	1.05E+01	1.05E+01	2.02E+01	2.02E+01	3.75E+01	3.75E+01	5.26E+01	5.26E+01	7.74E+01	7.75E+01	1.01E+02	1.01E+02	1.20E+02	1.20E+02	1.46E+02	1.47E+02	1.78E+02	1.79E+02	2.12E+02	2.14E+02
7.0E+00	1.06E+01	1.06E+01	2.05E+01	2.05E+01	3.80E+01	3.80E+01	5.33E+01	5.33E+01	7.84E+01	7.84E+01	1.02E+02	1.03E+02	1.21E+02	1.21E+02	1.48E+02	1.49E+02	1.79E+02	1.81E+02	2.13E+02	2.16E+02
8.0E+00	1.08E+01	1.08E+01	2.08E+01	2.08E+01	3.86E+01	3.86E+01	5.40E+01	5.40E+01	7.93E+01	7.94E+01	1.04E+02	1.04E+02	1.22E+02	1.23E+02	1.49E+02	1.50E+02	1.81E+02	1.83E+02	2.15E+02	2.18E+02
1.0E+01	1.11E+01	1.11E+01	2.13E+01	2.13E+01	3.96E+01	3.96E+01	5.54E+01	5.54E+01	8.13E+01	8.14E+01	1.06E+02	1.06E+02	1.25E+02	1.26E+02	1.52E+02	1.53E+02	1.84E+02	1.86E+02	2.17E+02	2.22E+02
1.5E+01	1.19E+01	1.19E+01	2.29E+01	2.29E+01	4.24E+01	4.24E+01	5.92E+01	5.92E+01	8.65E+01	8.66E+01	1.12E+02	1.13E+02	1.32E+02	1.33E+02	1.60E+02	1.61E+02	1.92E+02	1.95E+02	2.25E+02	2.31E+02
2.0E+01	1.28E+01	1.28E+01	2.45E+01	2.46E+01	4.53E+01	4.54E+01	6.31E+01	6.31E+01	9.20E+01	9.20E+01	1.19E+02	1.19E+02	1.40E+02	1.40E+02	1.68E+02	1.70E+02	2.00E+02	2.04E+02	2.32E+02	2.40E+02
3.0E+01	1.47E+01	1.49E+01	2.82E+01	2.84E+01	5.18E+01	5.20E+01	7.19E+01	7.20E+01	1.04E+02	1.04E+02	1.34E+02	1.34E+02	1.56E+02	1.56E+02	1.86E+02	1.87E+02	2.18E+02	2.23E+02	2.48E+02	2.60E+02
4.0E+01	1.69E+01	1.73E+01	3.23E+01	3.29E+01	5.91E+01	5.98E+01	8.17E+01	8.22E+01	1.17E+02	1.18E+02	1.50E+02	1.50E+02	1.73E+02	1.73E+02	2.05E+02	2.06E+02	2.37E+02	2.42E+02	2.65E+02	2.80E+02
6.0E+01	2.22E+01	2.39E+01	4.21E+01	4.49E+01	7.65E+01	8.00E+01	1.05E+02	1.08E+02	1.49E+02	1.51E+02	1.87E+02	1.88E+02	2.14E+02	2.14E+02	2.48E+02	2.48E+02	2.80E+02	2.85E+02	3.01E+02	3.21E+02
1.0E+02	3.64E+01	5.59E+01	6.88E+01	9.93E+01	1.23E+02	1.62E+02	1.67E+02	2.06E+02	2.32E+02	2.62E+02	2.85E+02	3.03E+02	3.19E+02	3.29E+02	3.58E+02	3.59E+02	3.86E+02	3.88E+02	3.89E+02	4.13E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).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10
1
E [keV]
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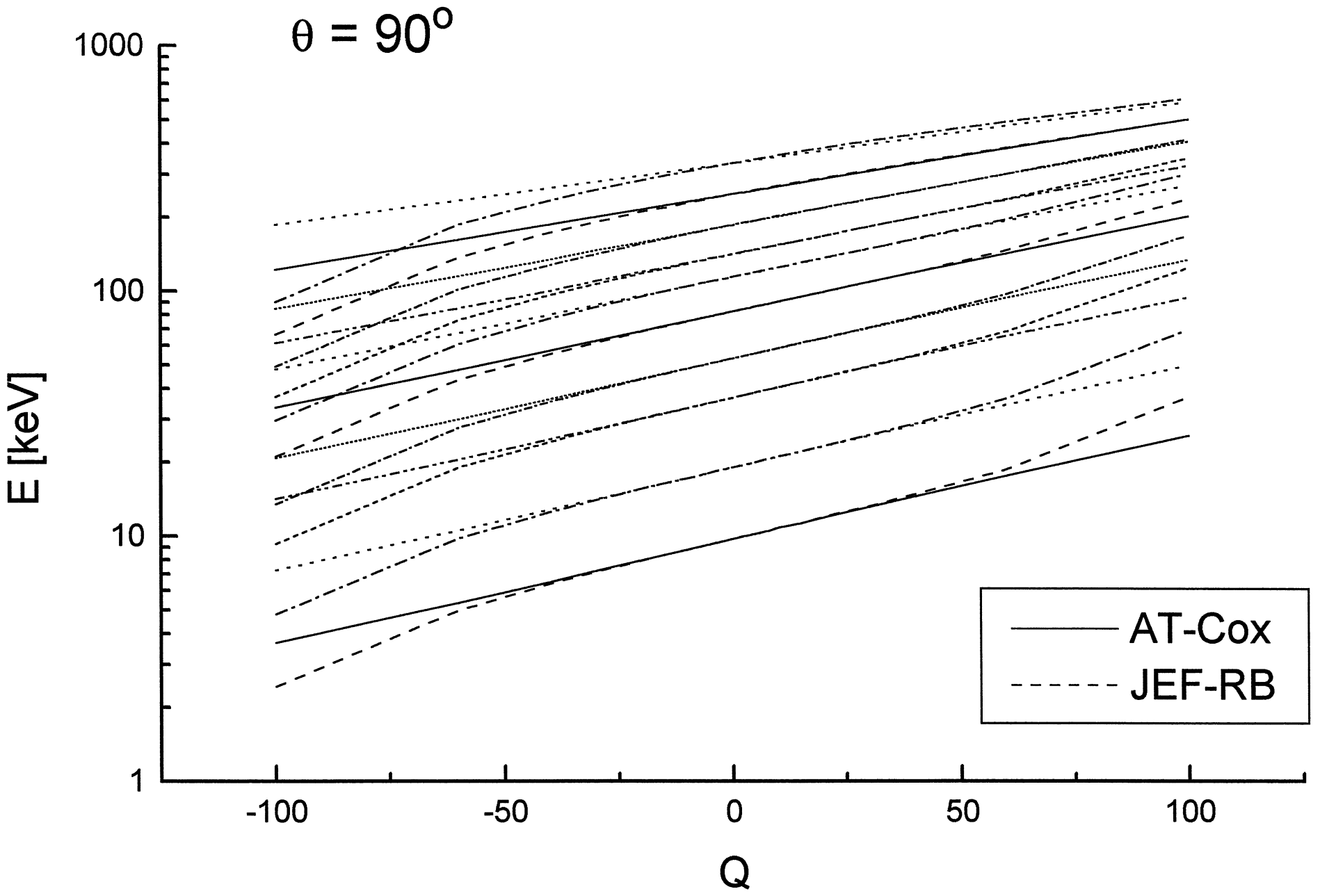
-50
0
50
100
Q
AT-Cox
JEF-RB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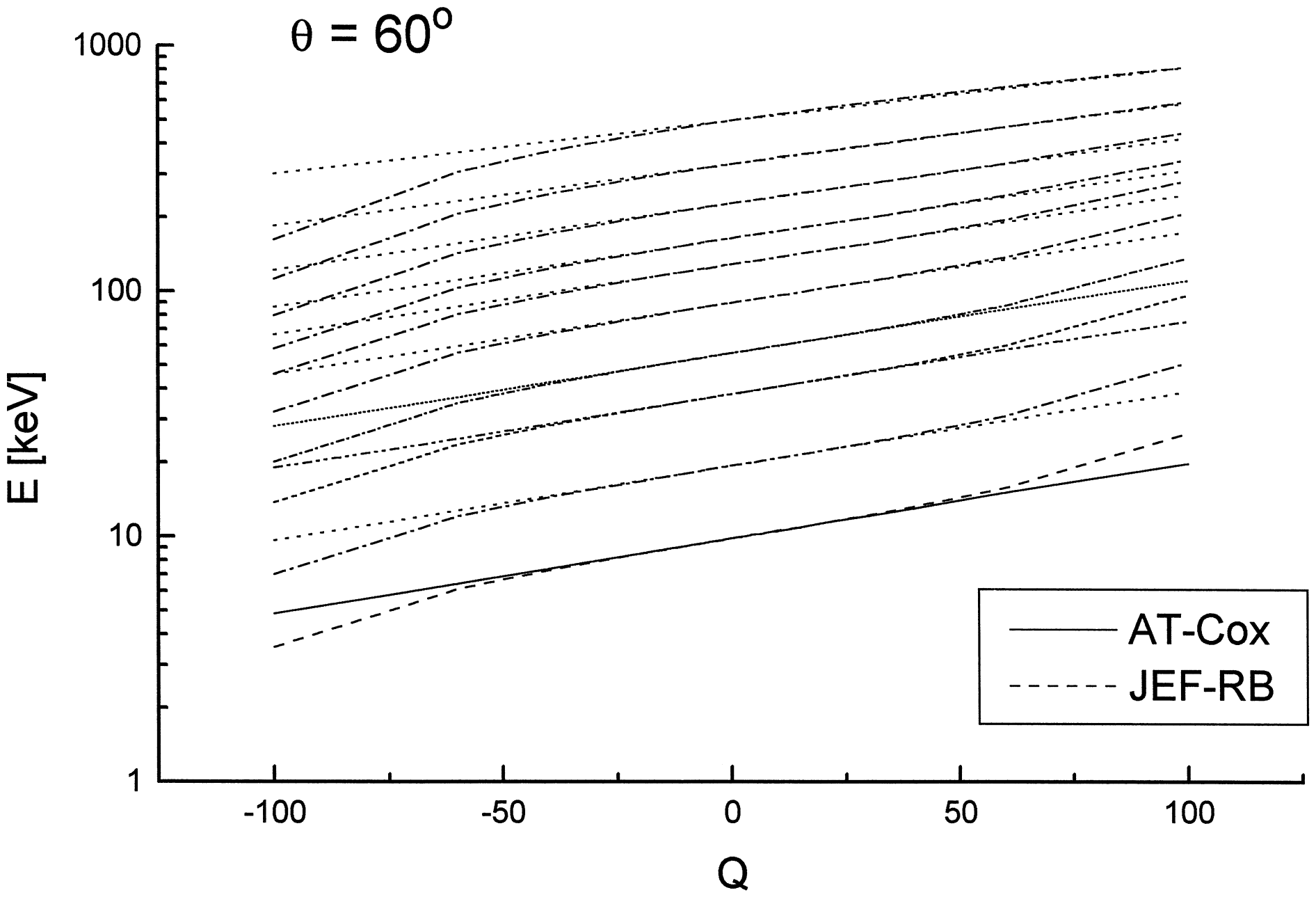
Q
AT-Cox
JEF-RB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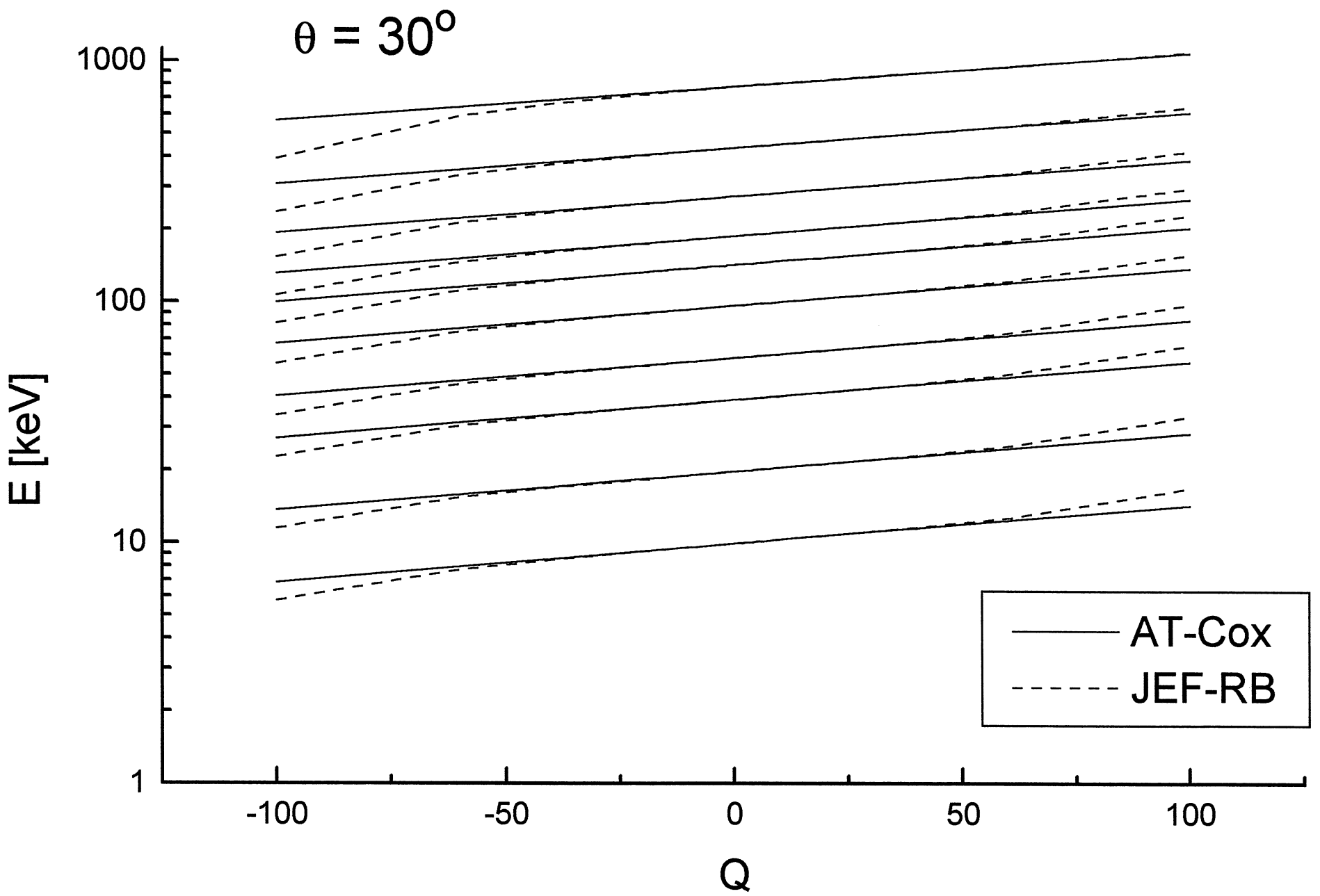
100
Q
AT-Cox
JEF-RB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100
10
1
E [keV]
-100
-50
0
50
100
Q
AT-Cox
JEF-RB

Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl Data Tables 16, 201 (1975)] to energy in [keV]

Scattering angle [deg] 0.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-6.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-4.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-3.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-2.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.5E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-8.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-7.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-6.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-5.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-4.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-3.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-2.4E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-2.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.8E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.6E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.4E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.2E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-8.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-7.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-6.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-5.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-4.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-3.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-2.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.5E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-1.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
-5.0E-02	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
0.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
5.0E-02	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.5E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
2.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
3.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
4.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
5.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
6.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
7.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
8.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.2E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.4E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.6E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.8E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
2.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
2.4E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
3.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
4.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
5.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
6.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
7.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
8.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.5E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
2.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
3.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
4.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
6.0E+01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03
1.0E+02	1.00E+01	1.00E+01	2.00E+01	2.00E+01	4.00E+01	4.00E+01	6.00E+01	6.00E+01	1.00E+02	1.00E+02	1.50E+02	1.50E+02	2.00E+02	2.00E+02	3.00E+02	3.00E+02	5.00E+02	5.00E+02	1.00E+03	1.00E+03

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Conversion of the dimentionless variable Q [Biggs, Mendelsohn and Mann, At Data Nucl Data Tables 16, 201 (1975)] to energy in [keV]

Scattering angle [deg] 30.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	6.85E+00	5.77E+00	1.37E+01	1.15E+01	2.72E+01	2.28E+01	4.07E+01	3.39E+01	6.73E+01	5.56E+01	9.98E+01	8.17E+01	1.32E+02	1.07E+02	1.94E+02	1.54E+02	3.10E+02	2.37E+02	5.67E+02	3.95E+02
-6.0E+01	7.96E+00	7.75E+00	1.59E+01	1.55E+01	3.16E+01	3.08E+01	4.72E+01	4.59E+01	7.79E+01	7.56E+01	1.16E+02	1.12E+02	1.52E+02	1.47E+02	2.24E+02	2.15E+02	3.57E+02	3.39E+02	6.48E+02	5.95E+02
-4.0E+01	8.58E+00	8.52E+00	1.71E+01	1.70E+01	3.41E+01	3.38E+01	5.09E+01	5.04E+01	8.40E+01	8.32E+01	1.24E+02	1.23E+02	1.64E+02	1.62E+02	2.40E+02	2.37E+02	3.84E+02	3.76E+02	6.93E+02	6.68E+02
-3.0E+01	8.91E+00	8.88E+00	1.78E+01	1.77E+01	3.54E+01	3.52E+01	5.28E+01	5.26E+01	8.71E+01	8.68E+01	1.29E+02	1.29E+02	1.70E+02	1.69E+02	2.49E+02	2.48E+02	3.97E+02	3.93E+02	7.16E+02	7.01E+02
-2.0E+01	9.25E+00	9.24E+00	1.85E+01	1.84E+01	3.67E+01	3.67E+01	5.48E+01	5.47E+01	9.04E+01	9.03E+01	1.34E+02	1.34E+02	1.77E+02	1.76E+02	2.59E+02	2.58E+02	4.12E+02	4.10E+02	7.41E+02	7.32E+02
-1.5E+01	9.43E+00	9.42E+00	1.88E+01	1.88E+01	3.74E+01	3.74E+01	5.58E+01	5.58E+01	9.21E+01	9.21E+01	1.37E+02	1.36E+02	1.80E+02	1.80E+02	2.63E+02	2.63E+02	4.19E+02	4.18E+02	7.53E+02	7.48E+02
-1.0E+01	9.60E+00	9.60E+00	1.92E+01	1.92E+01	3.81E+01	3.81E+01	5.69E+01	5.69E+01	9.39E+01	9.39E+01	1.39E+02	1.39E+02	1.83E+02	1.83E+02	2.68E+02	2.68E+02	4.27E+02	4.26E+02	7.66E+02	7.63E+02
-8.0E+00	9.68E+00	9.68E+00	1.93E+01	1.93E+01	3.84E+01	3.84E+01	5.73E+01	5.73E+01	9.46E+01	9.46E+01	1.40E+02	1.40E+02	1.85E+02	1.84E+02	2.70E+02	2.70E+02	4.30E+02	4.29E+02	7.71E+02	7.69E+02
-7.0E+00	9.71E+00	9.71E+00	1.94E+01	1.94E+01	3.86E+01	3.86E+01	5.75E+01	5.75E+01	9.49E+01	9.49E+01	1.41E+02	1.41E+02	1.85E+02	1.85E+02	2.71E+02	2.71E+02	4.31E+02	4.31E+02	7.74E+02	7.72E+02
-6.0E+00	9.75E+00	9.75E+00	1.95E+01	1.95E+01	3.87E+01	3.87E+01	5.78E+01	5.78E+01	9.53E+01	9.53E+01	1.41E+02	1.41E+02	1.86E+02	1.86E+02	2.72E+02	2.72E+02	4.33E+02	4.32E+02	7.76E+02	7.75E+02
-5.0E+00	9.79E+00	9.79E+00	1.95E+01	1.95E+01	3.88E+01	3.88E+01	5.80E+01	5.80E+01	9.56E+01	9.56E+01	1.42E+02	1.42E+02	1.87E+02	1.87E+02	2.73E+02	2.73E+02	4.34E+02	4.34E+02	7.79E+02	7.78E+02
-4.0E+00	9.82E+00	9.82E+00	1.96E+01	1.96E+01	3.90E+01	3.90E+01	5.82E+01	5.82E+01	9.60E+01	9.60E+01	1.42E+02	1.42E+02	1.87E+02	1.87E+02	2.74E+02	2.74E+02	4.36E+02	4.36E+02	7.82E+02	7.81E+02
-3.0E+00	9.86E+00	9.86E+00	1.97E+01	1.97E+01	3.91E+01	3.91E+01	5.84E+01	5.84E+01	9.64E+01	9.64E+01	1.43E+02	1.43E+02	1.88E+02	1.88E+02	2.75E+02	2.75E+02	4.37E+02	4.37E+02	7.84E+02	7.84E+02
-2.4E+00	9.88E+00	9.88E+00	1.97E+01	1.97E+01	3.92E+01	3.92E+01	5.85E+01	5.85E+01	9.66E+01	9.66E+01	1.43E+02	1.43E+02	1.88E+02	1.88E+02	2.76E+02	2.76E+02	4.38E+02	4.38E+02	7.86E+02	7.85E+02
-2.0E+00	9.90E+00	9.90E+00	1.97E+01	1.97E+01	3.93E+01	3.93E+01	5.86E+01	5.86E+01	9.67E+01	9.67E+01	1.43E+02	1.43E+02	1.89E+02	1.89E+02	2.76E+02	2.76E+02	4.39E+02	4.39E+02	7.87E+02	7.86E+02
-1.8E+00	9.91E+00	9.91E+00	1.98E+01	1.98E+01	3.93E+01	3.93E+01	5.87E+01	5.87E+01	9.68E+01	9.68E+01	1.43E+02	1.43E+02	1.89E+02	1.89E+02	2.76E+02	2.76E+02	4.39E+02	4.39E+02	7.88E+02	7.87E+02
-1.6E+00	9.91E+00	9.91E+00	1.98E+01	1.98E+01	3.93E+01	3.93E+01	5.87E+01	5.87E+01	9.69E+01	9.69E+01	1.43E+02	1.43E+02	1.89E+02	1.89E+02	2.77E+02	2.76E+02	4.40E+02	4.39E+02	7.88E+02	7.88E+02
-1.4E+00	9.92E+00	9.92E+00	1.98E+01	1.98E+01	3.94E+01	3.94E+01	5.88E+01	5.88E+01	9.69E+01	9.69E+01	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.77E+02	2.77E+02	4.40E+02	4.40E+02	7.89E+02	7.88E+02
-1.2E+00	9.93E+00	9.93E+00	1.98E+01	1.98E+01	3.94E+01	3.94E+01	5.88E+01	5.88E+01	9.70E+01	9.70E+01	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.77E+02	2.77E+02	4.40E+02	4.40E+02	7.89E+02	7.89E+02
-1.0E+00	9.94E+00	9.94E+00	1.98E+01	1.98E+01	3.94E+01	3.94E+01	5.88E+01	5.88E+01	9.71E+01	9.71E+01	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.77E+02	2.77E+02	4.40E+02	4.40E+02	7.90E+02	7.89E+02
-8.0E-01	9.94E+00	9.94E+00	1.98E+01	1.98E+01	3.95E+01	3.95E+01	5.89E+01	5.89E+01	9.72E+01	9.72E+01	1.44E+02	1.44E+02	1.89E+02	1.89E+02	2.77E+02	2.77E+02	4.41E+02	4.41E+02	7.90E+02	7.90E+02
-7.0E-01	9.95E+00	9.95E+00	1.98E+01	1.98E+01	3.95E+01	3.95E+01	5.89E+01	5.89E+01	9.72E+01	9.72E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.77E+02	2.77E+02	4.41E+02	4.41E+02	7.90E+02	7.90E+02
-6.0E-01	9.95E+00	9.95E+00	1.99E+01	1.99E+01	3.95E+01	3.95E+01	5.89E+01	5.89E+01	9.72E+01	9.72E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.41E+02	4.41E+02	7.91E+02	7.91E+02
-5.0E-01	9.96E+00	9.96E+00	1.99E+01	1.99E+01	3.95E+01	3.95E+01	5.90E+01	5.90E+01	9.73E+01	9.73E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.41E+02	4.41E+02	7.91E+02	7.91E+02
-4.0E-01	9.96E+00	9.96E+00	1.99E+01	1.99E+01	3.95E+01	3.95E+01	5.90E+01	5.90E+01	9.73E+01	9.73E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.41E+02	4.41E+02	7.91E+02	7.91E+02
-3.0E-01	9.96E+00	9.96E+00	1.99E+01	1.99E+01	3.95E+01	3.95E+01	5.90E+01	5.90E+01	9.73E+01	9.73E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.91E+02	7.91E+02
-2.0E-01	9.97E+00	9.97E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.90E+01	5.90E+01	9.74E+01	9.74E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.92E+02	7.92E+02
-1.5E-01	9.97E+00	9.97E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.90E+01	5.90E+01	9.74E+01	9.74E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.92E+02	7.92E+02
-1.0E-01	9.97E+00	9.97E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.90E+01	5.90E+01	9.74E+01	9.74E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.92E+02	7.92E+02
-5.0E-02	9.97E+00	9.97E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.91E+01	5.91E+01	9.74E+01	9.74E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.92E+02	7.92E+02
0.0E+00	9.97E+00	9.97E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.91E+01	5.91E+01	9.74E+01	9.74E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.92E+02	7.92E+02
5.0E-02	9.98E+00	9.98E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.91E+01	5.91E+01	9.75E+01	9.75E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.92E+02	7.92E+02
1.0E-01	9.98E+00	9.98E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.91E+01	5.91E+01	9.75E+01	9.75E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.93E+02	7.93E+02
1.5E-01	9.98E+00	9.98E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.91E+01	5.91E+01	9.75E+01	9.75E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.93E+02	7.93E+02
2.0E-01	9.98E+00	9.98E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.91E+01	5.91E+01	9.75E+01	9.75E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.42E+02	4.42E+02	7.93E+02	7.93E+02
3.0E-01	9.99E+00	9.99E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.91E+01	5.91E+01	9.76E+01	9.76E+01	1.44E+02	1.44E+02	1.90E+02	1.90E+02	2.78E+02	2.78E+02	4.43E+02	4.43E+02	7.93E+02	7.93E+02
4.0E-01	9.99E+00	9.99E+00	1.99E+01	1.99E+01	3.96E+01	3.96E+01	5.92E+01	5.92E+01	9.76E+01	9.76E+01	1.45E+02	1.45E+02	1.90E+02	1.90E+02	2.79E+02	2.79E+02	4.43E+02	4.43E+02	7.93E+02	7.93E+02
5.0E-01	9.99E+00	9.99E+00	1.99E+01	1.99E+01	3.97E+01	3.97E+01	5.92E+01	5.92E+01	9.76E+01	9.76E+01	1.45E+02	1.45E+02	1.90E+02	1.90E+02	2.79E+02	2.79E+02	4.43E+02	4.43E+02	7.94E+02	7.94E+02
6.0E-01	1.00E+01	1.00E+01	1.99E+01	1.99E+01	3.97E+01	3.97E+01	5.92E+01	5.92E+01	9.77E+01	9.77E+01	1.45E+02	1.45E+02	1.90E+02	1.90E+02	2.79E+02	2.79E+02	4.43E+02	4.43E+02	7.94E+02	7.94E+02
7.0E-01	1.00E+01	1.00E+01	1.99E+01	1.99E+01	3.97E+01	3.97E+01	5.92E+01	5.92E+01	9.77E+01	9.77E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.79E+02	2.79E+02	4.43E+02	4.43E+02	7.94E+02	7.94E+02
8.0E-01	1.00E+01	1.00E+01	2.00E+01	2.00E+01	3.97E+01	3.97E+01	5.92E+01	5.92E+01	9.77E+01	9.77E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.79E+02	2.79E+02	4.43E+02	4.43E+02	7.94E+02	7.95E+02
1.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	3.97E+01	3.97E+01	5.93E+01	5.93E+01	9.78E+01	9.78E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.79E+02	2.79E+02	4.44E+02	4.44E+02	7.95E+02	7.95E+02
1.2E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	3.98E+01	3.98E+01	5.93E+01	5.93E+01	9.79E+01	9.79E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.79E+02	2.79E+02	4.44E+02	4.44E+02	7.95E+02	7.96E+02
1.4E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	3.98E+01	3.98E+01	5.94E+01	5.94E+01	9.80E+01	9.80E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.80E+02	2.80E+02	4.44E+02	4.44E+02	7.96E+02	7.96E+02
1.6E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	3.98E+01	3.98E+01	5.94E+01	5.94E+01	9.80E+01	9.80E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.80E+02	2.80E+02	4.45E+02	4.45E+02	7.97E+02	7.97E+02
1.8E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	3.99E+01	3.99E+01	5.95E+01	5.95E+01	9.81E+01	9.81E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.80E+02	2.80E+02	4.45E+02	4.45E+02	7.97E+02	7.98E+02
2.0E+00	1.00E+01	1.00E+01	2.00E+01	2.00E+01	3.99E+01	3.99E+01	5.95E+01	5.95E+01	9.82E+01	9.82E+01	1.45E+02	1.45E+02	1.91E+02	1.91E+02	2.80E+02	2.80E+02	4.45E+02	4.45E+02	7.98E+02	7.98E+02
2.4E+00	1.01E+01	1.01E+01	2.01E+01	2.01E+01	3.99E+01	3.99E+01	5.96E+01	5.96E+01	9.83E+01	9.83E+01	1.46E+02	1.46E+02	1.92E+02	1.92E+02	2.81E+02	2.81E+02	4.46E+02	4.46E+02	7.99E+02	7.99E+02
3.0E+00	1.01E+01	1.01E+01	2.01E+01	2.01E+01	4.00E+01	4.00E+01	5.97E+01	5.97E+01	9.85E+01	9.85E+01	1.46E+02	1.46E+02	1.92E+02	1.92E+02	2.81E+02	2.81E+02	4.47E+02	4.47E+02	8.00E+02	8.01E+02
4.0E+00	1.01E+01	1.01E+01	2.02E+01	2.02E+01	4.02E+01	4.02E+01	6.00E+01	6.00E+01	9.89E+01	9.89E+01	1.46E+02	1.46E+02	1.93E+02	1.93E+02	2.82E+02	2.82E+02	4.48E+02	4.49E+02	8.03E+02	8.04E+02
5.0E+00	1.02E+01	1.02E+01	2.03E+01	2.03E+01	4.03E+01	4.03E+01	6.02E+01	6.02E+01	9.93E+01	9.93E+01	1.47E+02	1.47E+02	1.94E+02	1.94E+02	2.83E+02	2.83E+02	4.50E+02	4.50E+02	8.06E+02	8.07E+02
6.0E+00	1.02E+01	1.02E+01	2.04E+01	2.04E+01	4.05E+01	4.05E+01	6.04E+01	6.04E+01	9.97E+01	9.97E+01	1.48E+02	1.48E+02	1.94E+02	1.94E+02	2.84E+02	2.84E+02	4.52E+02	4.52E+02	8.08E+02	8.10E+02
7.0E+00	1.02E+01	1.02E+01	2.04E+01	2.04E+01	4.06E+01	4.06E+01	6.06E+01	6.06E+01	1.00E+02	1.00E+02	1.48E+02	1.48E+02	1.95E+02	1.95E+02	2.85E+02	2.85E+02	4.53E+02	4.53E+02	8.11E+02	8.13E+02
8.0E+00	1.03E+01	1.03E+01	2.05E+01	2.05E+01	4.08E+01	4.08E+01	6.09E+01	6.09E+01	1.00E+02	1.00E+02	1.49E+02	1.49E+02	1.96E+02	1.96E+02	2.86E+02	2.86E+02	4.55E+02	4.55E+02	8.14E+02	8.16E+02
1.0E+01	1.04E+01	1.04E+01	2.07E+01	2.07E+01	4.11E+01	4.11E+01	6.13E+01	6.13E+01	1.01E+02	1.01E+02	1.50E+02	1.50E+02	1.97E+02	1.97E+02	2.88E+02	2.88E+02	4.58E+02	4.58E+02	8.19E+02	8.21E+02
1.5E+01	1.06E+01	1.06E+01	2.11E+01	2.11E+01	4.19E+01	4.19E+01	6.25E+01	6.25E+01	1.03E+02	1.03E+02	1.53E+02	1.53E+02	2.01E+02	2.01E+02	2.94E+02	2.94E+02	4.66E+02	4.66E+02	8.33E+02	8.36E+02
2.0E+01	1.08E+01	1.08E+01	2.15E+01	2.15E+01	4.27E+01	4.27E+01	6.37E+01	6.37E+01	1.05E+02	1.05E+02	1.55E+02	1.55E+02	2.05E+02	2.05E+02	2.99E+02	2.99E+02	4.75E+02	4.75E+02	8.47E+02	8.50E+02
3.0E+01	1.12E+01	1.12E+01	2.23E+01	2.23E+01	4.43E+01	4.44E+01	6.61E+01	6.62E+01	1.09E+02	1.09E+02	1.61E+02	1.61E+02	2.12E+02	2.12E+02	3.10E+02	3.10E+02	4.92E+02	4.92E+02	8.76E+02	8.79E+02
4.0E+01	1.16E+01	1.17E+01	2.31E+01	2.33E+01	4.60E+01	4.63E+01	6.86E+01	6.90E+01	1.13E+02	1.14E+02	1.67E+02	1.68E+02	2.20E+02	2.21E+02	3.22E+02	3.22E+02	5.09E+02	5.10E+02	9.06E+02	9.08E+02
6.0E+01	1.25E+01	1.28E+01	2.49E+01	2.55E+01	4.96E+01	5.07E+01	7.39E+01	7.55E+01	1.22E+02	1.24E+02	1.80E+02	1.83E+02	2.37E+02	2.40E+02	3.46E+02	3.49E+02	5.47E+02	5.49E+02	9.69E+02	9.69E+02
1.0E+02	1.45E+01	1.71E+01	2.89E+01	3.40E+01	5.75E+01	6.72E+01	8.58E+01	9.94E+01	1.41E+02	1.61E+02	2.09E+02	2.35E+02	2.74E+02	3.05E+02	3.99E+02	4.33E+02	6.29E+02	6.60E+02	1.11E+03	1.12E+03

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Test of reversibility of the equations for computing the energy: the first column has the starting value of Q, the other columns
contain calculated values q_calc(E0,E_calc(E0,THETA,Q),THETA) using E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.

Scattering angle [deg] 0.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-6.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-4.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-3.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-2.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.5E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-8.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-7.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-6.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-5.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-4.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-3.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-2.4E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-2.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.8E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.6E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.4E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.2E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-8.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-7.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-6.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-5.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-4.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-3.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-2.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.5E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-1.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-5.0E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.0E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.5E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.0E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.2E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.4E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.6E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.8E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.4E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.5E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.0E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.0E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Test of reversibility of the equations for computing the energy: the first column has the starting value of Q, the other columns
contain calculated values q_calc(E0,E_calc(E0,THETA,Q),THETA) using E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.

Scattering angle [deg] 30.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	-8.06E+01	-1.00E+02	-8.04E+01	-1.00E+02	-8.01E+01	-1.00E+02	-7.98E+01	-1.00E+02	-7.92E+01	-1.00E+02	-7.84E+01	-1.00E+02	-7.76E+01	-1.00E+02	-7.61E+01	-1.00E+02	-7.32E+01	-1.00E+02	-6.69E+01	-1.00E+02
-6.0E+01	-5.49E+01	-6.00E+01	-5.48E+01	-6.00E+01	-5.46E+01	-6.00E+01	-5.44E+01	-6.00E+01	-5.40E+01	-6.00E+01	-5.36E+01	-6.00E+01	-5.31E+01	-6.00E+01	-5.21E+01	-6.00E+01	-5.03E+01	-6.00E+01	-4.58E+01	-6.00E+01
-4.0E+01	-3.83E+01	-4.00E+01	-3.83E+01	-4.00E+01	-3.82E+01	-4.00E+01	-3.81E+01	-4.00E+01	-3.79E+01	-4.00E+01	-3.76E+01	-4.00E+01	-3.73E+01	-4.00E+01	-3.68E+01	-4.00E+01	-3.56E+01	-4.00E+01	-3.26E+01	-4.00E+01
-3.0E+01	-2.93E+01	-3.00E+01	-2.92E+01	-3.00E+01	-2.92E+01	-3.00E+01	-2.91E+01	-3.00E+01	-2.90E+01	-3.00E+01	-2.88E+01	-3.00E+01	-2.86E+01	-3.00E+01	-2.82E+01	-3.00E+01	-2.74E+01	-3.00E+01	-2.52E+01	-3.00E+01
-2.0E+01	-1.98E+01	-2.00E+01	-1.98E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.96E+01	-2.00E+01	-1.95E+01	-2.00E+01	-1.94E+01	-2.00E+01	-1.92E+01	-2.00E+01	-1.87E+01	-2.00E+01	-1.73E+01	-2.00E+01
-1.5E+01	-1.49E+01	-1.50E+01	-1.49E+01	-1.50E+01	-1.49E+01	-1.50E+01	-1.49E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.47E+01	-1.50E+01	-1.45E+01	-1.50E+01	-1.42E+01	-1.50E+01	-1.31E+01	-1.50E+01
-1.0E+01	-9.97E+00	-1.00E+01	-9.97E+00	-1.00E+01	-9.96E+00	-1.00E+01	-9.95E+00	-1.00E+01	-9.93E+00	-1.00E+01	-9.89E+00	-1.00E+01	-9.86E+00	-1.00E+01	-9.77E+00	-1.00E+01	-9.56E+00	-1.00E+01	-8.89E+00	-1.00E+01
-8.0E+00	-7.98E+00	-8.00E+00	-7.98E+00	-8.00E+00	-7.98E+00	-8.00E+00	-7.97E+00	-8.00E+00	-7.95E+00	-8.00E+00	-7.93E+00	-8.00E+00	-7.90E+00	-8.00E+00	-7.84E+00	-8.00E+00	-7.68E+00	-8.00E+00	-7.15E+00	-8.00E+00
-7.0E+00	-6.99E+00	-7.00E+00	-6.99E+00	-7.00E+00	-6.98E+00	-7.00E+00	-6.98E+00	-7.00E+00	-6.96E+00	-7.00E+00	-6.95E+00	-7.00E+00	-6.92E+00	-7.00E+00	-6.87E+00	-7.00E+00	-6.73E+00	-7.00E+00	-6.27E+00	-7.00E+00
-6.0E+00	-5.99E+00	-6.00E+00	-5.99E+00	-6.00E+00	-5.99E+00	-6.00E+00	-5.98E+00	-6.00E+00	-5.97E+00	-6.00E+00	-5.96E+00	-6.00E+00	-5.94E+00	-6.00E+00	-5.90E+00	-6.00E+00	-5.78E+00	-6.00E+00	-5.39E+00	-6.00E+00
-5.0E+00	-5.00E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.98E+00	-5.00E+00	-4.97E+00	-5.00E+00	-4.96E+00	-5.00E+00	-4.92E+00	-5.00E+00	-4.82E+00	-5.00E+00	-4.50E+00	-5.00E+00
-4.0E+00	-4.00E+00	-4.00E+00	-4.00E+00	-4.00E+00	-4.00E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.98E+00	-4.00E+00	-3.97E+00	-4.00E+00	-3.94E+00	-4.00E+00	-3.87E+00	-4.00E+00	-3.61E+00	-4.00E+00
-3.0E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.98E+00	-3.00E+00	-2.96E+00	-3.00E+00	-2.90E+00	-3.00E+00	-2.71E+00	-3.00E+00
-2.4E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.38E+00	-2.40E+00	-2.37E+00	-2.40E+00	-2.33E+00	-2.40E+00
-2.0E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.97E+00	-2.00E+00	-1.94E+00	-2.00E+00	-1.81E+00	-2.00E+00
-1.8E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.78E+00	-1.80E+00	-1.75E+00	-1.80E+00	-1.63E+00	-1.80E+00
-1.6E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.58E+00	-1.60E+00	-1.55E+00	-1.60E+00	-1.45E+00	-1.60E+00
-1.4E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.38E+00	-1.40E+00	-1.36E+00	-1.40E+00
-1.2E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.17E+00	-1.20E+00
-1.0E+00	-1.00E+00	-1.00E+00	-1.00E+00	-1.00E+00	-1.00E+00	-1.00E+00	-1.00E+00	-1.00E+00	-9.99E-01	-1.00E+00	-9.98E-01	-1.00E+00	-9.97E-01	-1.00E+00	-9.94E-01	-1.00E+00	-9.88E-01	-1.00E+00	-9.71E-01	-1.00E+00
-8.0E-01	-8.00E-01	-8.00E-01	-8.00E-01	-8.00E-01	-8.00E-01	-8.00E-01	-7.99E-01	-8.00E-01	-7.99E-01	-8.00E-01	-7.97E-01	-8.00E-01	-7.96E-01	-8.00E-01	-7.91E-01	-8.00E-01	-7.77E-01	-8.00E-01	-7.28E-01	-8.00E-01
-7.0E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-6.99E-01	-7.00E-01	-6.98E-01	-7.00E-01	-6.96E-01	-7.00E-01	-6.92E-01	-7.00E-01	-6.80E-01	-7.00E-01
-6.0E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-5.99E-01	-6.00E-01	-5.98E-01	-6.00E-01	-5.97E-01	-6.00E-01	-5.93E-01	-6.00E-01	-5.83E-01	-6.00E-01
-5.0E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-4.99E-01	-5.00E-01	-4.98E-01	-5.00E-01	-4.97E-01	-5.00E-01	-4.94E-01	-5.00E-01	-4.86E-01	-5.00E-01
-4.0E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-3.99E-01	-4.00E-01	-3.99E-01	-4.00E-01	-3.98E-01	-4.00E-01	-3.96E-01	-4.00E-01	-3.89E-01	-4.00E-01
-3.0E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.98E-01	-3.00E-01	-2.97E-01	-3.00E-01	-2.92E-01	-3.00E-01
-2.0E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.98E-01	-2.00E-01	-1.95E-01	-2.00E-01
-1.5E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.49E-01	-1.50E-01	-1.48E-01	-1.50E-01	-1.46E-01	-1.50E-01
-1.0E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-9.99E-02	-1.00E-01	-9.97E-02	-1.00E-01	-9.95E-02	-1.00E-01	-9.89E-02	-1.00E-01	-9.73E-02	-1.00E-01
-5.0E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-4.99E-02	-5.00E-02	-4.99E-02	-5.00E-02	-4.98E-02	-5.00E-02	-4.95E-02	-5.00E-02	-4.86E-02	-5.00E-02
0.0E+00	-6.03E-11	-6.03E-11	4.68E-11	4.68E-11	2.63E-10	2.63E-10	8.49E-11	8.49E-11	2.63E-10	-2.63E-10	-1.31E-10	-1.31E-10	2.95E-10	2.95E-10	0.00E+00	0.00E+00	1.59E-10	1.59E-10	1.89E-10	1.89E-10
5.0E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	4.99E-02	5.00E-02	4.99E-02	5.00E-02	4.98E-02	5.00E-02	4.95E-02	5.00E-02	4.86E-02	5.00E-02	4.56E-02	5.00E-02
1.0E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	9.99E-02	1.00E-01	9.97E-02	1.00E-01	9.95E-02	1.00E-01	9.90E-02	1.00E-01	9.73E-02	1.00E-01	9.12E-02	1.00E-01
1.5E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.49E-01	1.50E-01	1.48E-01	1.50E-01	1.46E-01	1.50E-01	1.37E-01	1.50E-01
2.0E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	1.99E-01	2.00E-01	1.99E-01	2.00E-01	1.98E-01	2.00E-01	1.95E-01	2.00E-01	1.82E-01	2.00E-01
3.0E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	2.99E-01	3.00E-01	2.99E-01	3.00E-01	2.97E-01	3.00E-01	2.92E-01	3.00E-01	2.74E-01	3.00E-01
4.0E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	3.99E-01	4.00E-01	3.98E-01	4.00E-01	3.96E-01	4.00E-01	3.89E-01	4.00E-01	3.65E-01	4.00E-01
5.0E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	4.99E-01	5.00E-01	4.99E-01	5.00E-01	4.98E-01	5.00E-01	4.95E-01	5.00E-01	4.87E-01	5.00E-01	4.56E-01	5.00E-01
6.0E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	5.99E-01	6.00E-01	5.99E-01	6.00E-01	5.97E-01	6.00E-01	5.94E-01	6.00E-01	5.84E-01	6.00E-01	5.48E-01	6.00E-01
7.0E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	6.99E-01	7.00E-01	6.98E-01	7.00E-01	6.97E-01	7.00E-01	6.93E-01	7.00E-01	6.82E-01	7.00E-01	6.39E-01	7.00E-01
8.0E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	7.99E-01	8.00E-01	7.98E-01	8.00E-01	7.97E-01	8.00E-01	7.92E-01	8.00E-01	7.79E-01	8.00E-01	7.31E-01	8.00E-01
1.0E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.99E-01	1.00E+00	9.98E-01	1.00E+00	9.96E-01	1.00E+00	9.90E-01	1.00E+00	9.74E-01	1.00E+00	9.14E-01	1.00E+00
1.2E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.19E+00	1.20E+00	1.17E+00	1.20E+00	1.10E+00	1.20E+00
1.4E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.39E+00	1.40E+00	1.36E+00	1.40E+00	1.28E+00	1.40E+00	1.28E+00	1.40E+00
1.6E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.59E+00	1.60E+00	1.56E+00	1.60E+00	1.46E+00	1.60E+00	1.46E+00	1.60E+00
1.8E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.79E+00	1.80E+00	1.76E+00	1.80E+00	1.65E+00	1.80E+00	1.65E+00	1.80E+00
2.0E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	1.99E+00	2.00E+00	1.95E+00	2.00E+00	1.83E+00	2.00E+00	1.83E+00	2.00E+00
2.4E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.39E+00	2.40E+00	2.34E+00	2.40E+00	2.20E+00	2.40E+00	2.20E+00	2.40E+00
3.0E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	2.99E+00	3.00E+00	2.93E+00	3.00E+00	2.75E+00	3.00E+00	2.75E+00	3.00E+00
4.0E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	3.99E+00	4.00E+00	3.91E+00	4.00E+00	3.68E+00	4.00E+00	3.68E+00	4.00E+00
5.0E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	4.99E+00	5.00E+00	4.90E+00	5.00E+00	4.61E+00	5.00E+00	4.61E+00	5.00E+00
6.0E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	5.99E+00	6.00E+00	5.89E+00	6.00E+00	5.55E+00	6.00E+00	5.55E+00	6.00E+00
7.0E+00	6.99E+00	7.00E+00	6.99E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	6.99E+00	7.00E+00	6.97E+00	7.00E+00	6.88E+00	7.00E+00	6.49E+00	7.00E+00
8.0E+00	7.99E+00	8.00E+00	7.99E+00	8.00E+00	7.99E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	7.99E+00	8.00E+00	7.97E+00	8.00E+00	7.87E+00	8.00E+00	7.43E+00	8.00E+00
1.0E+01	9.98E+00	1.00E+01	9.98E+00	1.00E+01	9.99E+00	1.00E+01	9.99E+00	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	9.97E+00	1.00E+01	9.86E+00	1.00E+01	9.33E+00	1.00E+01
1.5E+01	1.49E+01	1.50E+01	1.49E+01	1.50E+01	1.49E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.49E+01	1.50E+01	1.41E+01	1.50E+01
2.0E+01	1.98E+01	2.00E+01	1.98E+01	2.00E+01	1.98E+01	2.00E+01	1.99E+01	2.00E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.99E+01	2.00E+01	1.90E+01	2.00E+01
3.0E+01	2.93E+01	3.00E+01	2.94E+01	3.00E+01	2.94E+01	3.00E+01	2.95E+01	3.00E+01	2.96E+01	3.00E+01	2.97E+01	3.00E+01	2.98E+01	3.00E+01	2.99E+01	3.00E+01	3.00E+01	3.00E+01	2.91E+01	3.00E+01
4.0E+01	3.85E+01	4.00E+01	3.85E+01	4.00E+01	3.86E+01	4.00E+01	3.87E+01	4.00E+01	3.89E+01	4.00E+01	3.91E+01	4.00E+01	3.93E+01	4.00E+01	3.96E+01	4.00E+01	4.00E+01	4.00E+01	3.93E+01	4.00E+01
6.0E+01	5.51E+01	6.00E+01	5.52E+01	6.00E+01	5.54E+01	6.00E+01	5.56E+01	6.00E+01	5.60E+01	6.00E+01	5.65E+01	6.00E+01	5.70E+01	6.00E+01	5.79E+01	6.00E+01	5.91E+01	6.00E+01	5.99E+01	6.00E+01
1.0E+02	8.10E+01	1.00E+02	8.12E+01	1.00E+02	8.17E+01	1.00E+02	8.22E+01	1.00E+02	8.31E+01	1.00E+02	8.42E+01	1.00E+02	8.53E+01	1.00E+02	8.75E+01	1.00E+02	9.13E+01	1.00E+02	9.81E+01	1.00E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Test of reversibility of the equations for computing the energy: the first column has the starting value of Q, the other columns
contain calculated values q_calc(E0,E_calc(E0,THETA,Q),THETA) using E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.

Scattering angle [deg] 60.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	-8.05E+01	-1.00E+02	-8.02E+01	-1.00E+02	-7.97E+01	-1.00E+02	-7.92E+01	-1.00E+02	-7.82E+01	-1.00E+02	-7.70E+01	-1.00E+02	-7.59E+01	-1.00E+02	-7.37E+01	-1.00E+02	-6.97E+01	-1.00E+02	-6.19E+01	-1.00E+02
-6.0E+01	-5.48E+01	-6.00E+01	-5.46E+01	-6.00E+01	-5.43E+01	-6.00E+01	-5.40E+01	-6.00E+01	-5.34E+01	-6.00E+01	-5.26E+01	-6.00E+01	-5.18E+01	-6.00E+01	-5.03E+01	-6.00E+01	-4.75E+01	-6.00E+01	-4.17E+01	-6.00E+01
-4.0E+01	-3.83E+01	-4.00E+01	-3.82E+01	-4.00E+01	-3.80E+01	-4.00E+01	-3.79E+01	-4.00E+01	-3.75E+01	-4.00E+01	-3.70E+01	-4.00E+01	-3.65E+01	-4.00E+01	-3.55E+01	-4.00E+01	-3.36E+01	-4.00E+01	-2.95E+01	-4.00E+01
-3.0E+01	-2.93E+01	-3.00E+01	-2.92E+01	-3.00E+01	-2.91E+01	-3.00E+01	-2.90E+01	-3.00E+01	-2.87E+01	-3.00E+01	-2.84E+01	-3.00E+01	-2.80E+01	-3.00E+01	-2.73E+01	-3.00E+01	-2.59E+01	-3.00E+01	-2.27E+01	-3.00E+01
-2.0E+01	-1.98E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.96E+01	-2.00E+01	-1.95E+01	-2.00E+01	-1.93E+01	-2.00E+01	-1.91E+01	-2.00E+01	-1.86E+01	-2.00E+01	-1.77E+01	-2.00E+01	-1.56E+01	-2.00E+01
-1.5E+01	-1.49E+01	-1.50E+01	-1.49E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.47E+01	-1.50E+01	-1.46E+01	-1.50E+01	-1.44E+01	-1.50E+01	-1.41E+01	-1.50E+01	-1.35E+01	-1.50E+01	-1.18E+01	-1.50E+01
-1.0E+01	-9.97E+00	-1.00E+01	-9.96E+00	-1.00E+01	-9.94E+00	-1.00E+01	-9.92E+00	-1.00E+01	-9.87E+00	-1.00E+01	-9.80E+00	-1.00E+01	-9.71E+00	-1.00E+01	-9.52E+00	-1.00E+01	-9.08E+00	-1.00E+01	-8.00E+00	-1.00E+01
-8.0E+00	-7.98E+00	-8.00E+00	-7.98E+00	-8.00E+00	-7.96E+00	-8.00E+00	-7.95E+00	-8.00E+00	-7.91E+00	-8.00E+00	-7.86E+00	-8.00E+00	-7.79E+00	-8.00E+00	-7.64E+00	-8.00E+00	-7.30E+00	-8.00E+00	-6.43E+00	-8.00E+00
-7.0E+00	-6.99E+00	-7.00E+00	-6.98E+00	-7.00E+00	-6.97E+00	-7.00E+00	-6.96E+00	-7.00E+00	-6.93E+00	-7.00E+00	-6.88E+00	-7.00E+00	-6.83E+00	-7.00E+00	-6.70E+00	-7.00E+00	-6.40E+00	-7.00E+00	-5.64E+00	-7.00E+00
-6.0E+00	-5.99E+00	-6.00E+00	-5.99E+00	-6.00E+00	-5.98E+00	-6.00E+00	-5.97E+00	-6.00E+00	-5.95E+00	-6.00E+00	-5.91E+00	-6.00E+00	-5.86E+00	-6.00E+00	-5.75E+00	-6.00E+00	-5.50E+00	-6.00E+00	-4.85E+00	-6.00E+00
-5.0E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.98E+00	-5.00E+00	-4.96E+00	-5.00E+00	-4.93E+00	-5.00E+00	-4.89E+00	-5.00E+00	-4.80E+00	-5.00E+00	-4.59E+00	-5.00E+00	-4.05E+00	-5.00E+00
-4.0E+00	-4.00E+00	-4.00E+00	-4.00E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.97E+00	-4.00E+00	-3.95E+00	-4.00E+00	-3.92E+00	-4.00E+00	-3.85E+00	-4.00E+00	-3.68E+00	-4.00E+00	-3.25E+00	-4.00E+00
-3.0E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.98E+00	-3.00E+00	-2.96E+00	-3.00E+00	-2.94E+00	-3.00E+00	-2.89E+00	-3.00E+00	-2.77E+00	-3.00E+00	-2.44E+00	-3.00E+00
-2.4E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.37E+00	-2.40E+00	-2.36E+00	-2.40E+00	-2.31E+00	-2.40E+00	-2.22E+00	-2.40E+00	-1.96E+00	-2.40E+00
-2.0E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.98E+00	-2.00E+00	-1.96E+00	-2.00E+00	-1.93E+00	-2.00E+00	-1.85E+00	-2.00E+00	-1.63E+00	-2.00E+00
-1.8E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.78E+00	-1.80E+00	-1.77E+00	-1.80E+00	-1.74E+00	-1.80E+00	-1.66E+00	-1.80E+00	-1.47E+00	-1.80E+00
-1.6E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.58E+00	-1.60E+00	-1.57E+00	-1.60E+00	-1.55E+00	-1.60E+00	-1.48E+00	-1.60E+00	-1.31E+00	-1.60E+00
-1.4E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.38E+00	-1.40E+00	-1.35E+00	-1.40E+00	-1.30E+00	-1.40E+00	-1.15E+00	-1.40E+00
-1.2E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.18E+00	-1.20E+00	-1.16E+00	-1.20E+00	-1.11E+00	-1.20E+00	-9.82E-01	-1.20E+00
-1.0E+00	-1.00E+00	-1.00E+00	-1.00E+00	-1.00E+00	-9.99E-01	-1.00E+00	-9.98E-01	-1.00E+00	-9.95E-01	-1.00E+00	-9.90E-01	-1.00E+00	-9.83E-01	-1.00E+00	-9.67E-01	-1.00E+00	-9.26E-01	-1.00E+00	-8.19E-01	-1.00E+00
-8.0E-01	-8.00E-01	-8.00E-01	-8.00E-01	-8.00E-01	-7.99E-01	-8.00E-01	-7.98E-01	-8.00E-01	-7.96E-01	-8.00E-01	-7.92E-01	-8.00E-01	-7.87E-01	-8.00E-01	-7.74E-01	-8.00E-01	-7.41E-01	-8.00E-01	-6.55E-01	-8.00E-01
-7.0E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-6.99E-01	-7.00E-01	-6.99E-01	-7.00E-01	-6.97E-01	-7.00E-01	-6.93E-01	-7.00E-01	-6.88E-01	-7.00E-01	-6.77E-01	-7.00E-01	-6.49E-01	-7.00E-01	-5.74E-01	-7.00E-01
-6.0E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-5.99E-01	-6.00E-01	-5.99E-01	-6.00E-01	-5.97E-01	-6.00E-01	-5.94E-01	-6.00E-01	-5.90E-01	-6.00E-01	-5.80E-01	-6.00E-01	-5.56E-01	-6.00E-01	-4.92E-01	-6.00E-01
-5.0E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-4.98E-01	-5.00E-01	-4.95E-01	-5.00E-01	-4.92E-01	-5.00E-01	-4.84E-01	-5.00E-01	-4.64E-01	-5.00E-01	-4.10E-01	-5.00E-01
-4.0E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-3.98E-01	-4.00E-01	-3.96E-01	-4.00E-01	-3.94E-01	-4.00E-01	-3.87E-01	-4.00E-01	-3.71E-01	-4.00E-01	-3.28E-01	-4.00E-01
-3.0E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.97E-01	-3.00E-01	-2.95E-01	-3.00E-01	-2.90E-01	-3.00E-01	-2.78E-01	-3.00E-01	-2.46E-01	-3.00E-01
-2.0E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.98E-01	-2.00E-01	-1.97E-01	-2.00E-01	-1.94E-01	-2.00E-01	-1.86E-01	-2.00E-01	-1.64E-01	-2.00E-01
-1.5E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.49E-01	-1.50E-01	-1.49E-01	-1.50E-01	-1.48E-01	-1.50E-01	-1.45E-01	-1.50E-01	-1.39E-01	-1.50E-01	-1.23E-01	-1.50E-01
-1.0E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-9.99E-02	-1.00E-01	-9.98E-02	-1.00E-01	-9.96E-02	-1.00E-01	-9.91E-02	-1.00E-01	-9.84E-02	-1.00E-01	-9.68E-02	-1.00E-01	-9.28E-02	-1.00E-01	-8.21E-02	-1.00E-01
-5.0E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-4.99E-02	-5.00E-02	-4.98E-02	-5.00E-02	-4.95E-02	-5.00E-02	-4.92E-02	-5.00E-02	-4.84E-02	-5.00E-02	-4.64E-02	-5.00E-02	-4.10E-02	-5.00E-02
0.0E+00	1.64E-10	1.64E-10	-1.35E-10	-1.35E-10	-7.62E-11	-7.62E-11	1.71E-10	1.71E-10	1.04E-10	1.04E-10	1.69E-10	1.69E-10	1.29E-10	1.29E-10	1.76E-10	1.76E-10	2.89E-10	2.89E-10	1.47E-10	1.47E-10
5.0E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	4.99E-02	5.00E-02	4.98E-02	5.00E-02	4.95E-02	5.00E-02	4.92E-02	5.00E-02	4.84E-02	5.00E-02	4.64E-02	5.00E-02	4.11E-02	5.00E-02
1.0E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	9.99E-02	1.00E-01	9.98E-02	1.00E-01	9.96E-02	1.00E-01	9.91E-02	1.00E-01	9.84E-02	1.00E-01	9.68E-02	1.00E-01	9.28E-02	1.00E-01	8.21E-02	1.00E-01
1.5E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.49E-01	1.50E-01	1.49E-01	1.50E-01	1.48E-01	1.50E-01	1.45E-01	1.50E-01	1.39E-01	1.50E-01	1.23E-01	1.50E-01
2.0E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	1.99E-01	2.00E-01	1.98E-01	2.00E-01	1.97E-01	2.00E-01	1.94E-01	2.00E-01	1.86E-01	2.00E-01	1.64E-01	2.00E-01
3.0E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	2.99E-01	3.00E-01	2.97E-01	3.00E-01	2.95E-01	3.00E-01	2.91E-01	3.00E-01	2.79E-01	3.00E-01	2.46E-01	3.00E-01
4.0E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	3.99E-01	4.00E-01	3.98E-01	4.00E-01	3.96E-01	4.00E-01	3.94E-01	4.00E-01	3.88E-01	4.00E-01	3.72E-01	4.00E-01	3.29E-01	4.00E-01
5.0E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	4.99E-01	5.00E-01	4.98E-01	5.00E-01	4.96E-01	5.00E-01	4.92E-01	5.00E-01	4.85E-01	5.00E-01	4.65E-01	5.00E-01	4.11E-01	5.00E-01
6.0E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	5.99E-01	6.00E-01	5.98E-01	6.00E-01	5.95E-01	6.00E-01	5.91E-01	6.00E-01	5.82E-01	6.00E-01	5.58E-01	6.00E-01	4.93E-01	6.00E-01
7.0E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	6.99E-01	7.00E-01	6.97E-01	7.00E-01	6.94E-01	7.00E-01	6.90E-01	7.00E-01	6.79E-01	7.00E-01	6.51E-01	7.00E-01	5.76E-01	7.00E-01
8.0E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	7.99E-01	8.00E-01	7.97E-01	8.00E-01	7.93E-01	8.00E-01	7.88E-01	8.00E-01	7.76E-01	8.00E-01	7.44E-01	8.00E-01	6.58E-01	8.00E-01
1.0E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.99E-01	1.00E+00	9.96E-01	1.00E+00	9.92E-01	1.00E+00	9.85E-01	1.00E+00	9.70E-01	1.00E+00	9.30E-01	1.00E+00	8.23E-01	1.00E+00
1.2E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.19E+00	1.20E+00	1.18E+00	1.20E+00	1.16E+00	1.20E+00	1.12E+00	1.20E+00	9.88E-01	1.20E+00
1.4E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.39E+00	1.40E+00	1.38E+00	1.40E+00	1.36E+00	1.40E+00	1.30E+00	1.40E+00	1.15E+00	1.40E+00
1.6E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.59E+00	1.60E+00	1.59E+00	1.60E+00	1.58E+00	1.60E+00	1.55E+00	1.60E+00	1.49E+00	1.60E+00	1.32E+00	1.60E+00
1.8E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.79E+00	1.80E+00	1.79E+00	1.80E+00	1.78E+00	1.80E+00	1.75E+00	1.80E+00	1.68E+00	1.80E+00	1.48E+00	1.80E+00
2.0E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	1.99E+00	2.00E+00	1.98E+00	2.00E+00	1.97E+00	2.00E+00	1.94E+00	2.00E+00	1.86E+00	2.00E+00	1.65E+00	2.00E+00
2.4E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.39E+00	2.40E+00	2.38E+00	2.40E+00	2.37E+00	2.40E+00	2.33E+00	2.40E+00	2.24E+00	2.40E+00	1.98E+00	2.40E+00
3.0E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	2.99E+00	3.00E+00	2.98E+00	3.00E+00	2.96E+00	3.00E+00	2.92E+00	3.00E+00	2.80E+00	3.00E+00	2.48E+00	3.00E+00
4.0E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	3.99E+00	4.00E+00	3.98E+00	4.00E+00	3.95E+00	4.00E+00	3.90E+00	4.00E+00	3.74E+00	4.00E+00	3.32E+00	4.00E+00
5.0E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	4.99E+00	5.00E+00	4.97E+00	5.00E+00	4.95E+00	5.00E+00	4.88E+00	5.00E+00	4.69E+00	5.00E+00	4.16E+00	5.00E+00
6.0E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	5.99E+00	6.00E+00	5.97E+00	6.00E+00	5.94E+00	6.00E+00	5.86E+00	6.00E+00	5.64E+00	6.00E+00	5.00E+00	6.00E+00
7.0E+00	6.99E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	6.99E+00	7.00E+00	6.97E+00	7.00E+00	6.94E+00	7.00E+00	6.85E+00	7.00E+00	6.59E+00	7.00E+00	5.85E+00	7.00E+00
8.0E+00	7.99E+00	8.00E+00	7.99E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	7.99E+00	8.00E+00	7.97E+00	8.00E+00	7.94E+00	8.00E+00	7.83E+00	8.00E+00	7.55E+00	8.00E+00	6.70E+00	8.00E+00
1.0E+01	9.98E+00	1.00E+01	9.99E+00	1.00E+01	9.99E+00	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	9.98E+00	1.00E+01	9.94E+00	1.00E+01	9.82E+00	1.00E+01	9.47E+00	1.00E+01	8.42E+00	1.00E+01
1.5E+01	1.49E+01	1.50E+01	1.49E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.48E+01	1.50E+01	1.43E+01	1.50E+01	1.28E+01	1.50E+01
2.0E+01	1.98E+01	2.00E+01	1.98E+01	2.00E+01	1.99E+01	2.00E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.98E+01	2.00E+01	1.93E+01	2.00E+01	1.73E+01	2.00E+01
3.0E+01	2.94E+01	3.00E+01	2.94E+01	3.00E+01	2.95E+01	3.00E+01	2.96E+01	3.00E+01	2.98E+01	3.00E+01	2.99E+01	3.00E+01	3.00E+01	3.00E+01	2.99E+01	3.00E+01	2.93E+01	3.00E+01	2.65E+01	3.00E+01
4.0E+01	3.85E+01	4.00E+01	3.86E+01	4.00E+01	3.88E+01	4.00E+01	3.90E+01	4.00E+01	3.93E+01	4.00E+01	3.96E+01	4.00E+01	3.98E+01	4.00E+01	4.00E+01	4.00E+01	3.95E+01	4.00E+01	3.61E+01	4.00E+01
6.0E+01	5.52E+01	6.00E+01	5.54E+01	6.00E+01	5.59E+01	6.00E+01	5.63E+01	6.00E+01	5.71E+01	6.00E+01	5.79E+01	6.00E+01	5.86E+01	6.00E+01	5.95E+01	6.00E+01	5.99E+01	6.00E+01	5.62E+01	6.00E+01
1.0E+02	8.13E+01	1.00E+02	8.18E+01	1.00E+02	8.29E+01	1.00E+02	8.39E+01	1.00E+02	8.58E+01	1.00E+02	8.80E+01	1.00E+02	9.01E+01	1.00E+02	9.36E+01	1.00E+02	9.82E+01	1.00E+02	9.86E+01	1.00E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Test of reversibility of the equations for computing the energy: the first column has the starting value of Q, the other columns
contain calculated values q_calc(EO,E_calc(EO,THETA,Q),THETA) using E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.

Scattering angle [deg] 90.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	-8.04E+01	-1.00E+02	-8.01E+01	-1.00E+02	-7.95E+01	-1.00E+02	-7.89E+01	-1.00E+02	-7.77E+01	-1.00E+02	-7.63E+01	-1.00E+02	-7.49E+01	-1.00E+02	-7.25E+01	-1.00E+02	-6.82E+01	-1.00E+02	-6.01E+01	-1.00E+02
-6.0E+01	-5.48E+01	-6.00E+01	-5.45E+01	-6.00E+01	-5.41E+01	-6.00E+01	-5.37E+01	-6.00E+01	-5.29E+01	-6.00E+01	-5.20E+01	-6.00E+01	-5.10E+01	-6.00E+01	-4.92E+01	-6.00E+01	-4.61E+01	-6.00E+01	-4.01E+01	-6.00E+01
-4.0E+01	-3.83E+01	-4.00E+01	-3.82E+01	-4.00E+01	-3.79E+01	-4.00E+01	-3.77E+01	-4.00E+01	-3.72E+01	-4.00E+01	-3.66E+01	-4.00E+01	-3.59E+01	-4.00E+01	-3.47E+01	-4.00E+01	-3.25E+01	-4.00E+01	-2.82E+01	-4.00E+01
-3.0E+01	-2.92E+01	-3.00E+01	-2.92E+01	-3.00E+01	-2.90E+01	-3.00E+01	-2.88E+01	-3.00E+01	-2.85E+01	-3.00E+01	-2.81E+01	-3.00E+01	-2.76E+01	-3.00E+01	-2.67E+01	-3.00E+01	-2.50E+01	-3.00E+01	-2.17E+01	-3.00E+01
-2.0E+01	-1.98E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.96E+01	-2.00E+01	-1.95E+01	-2.00E+01	-1.94E+01	-2.00E+01	-1.91E+01	-2.00E+01	-1.88E+01	-2.00E+01	-1.82E+01	-2.00E+01	-1.71E+01	-2.00E+01	-1.48E+01	-2.00E+01
-1.5E+01	-1.49E+01	-1.50E+01	-1.49E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.46E+01	-1.50E+01	-1.44E+01	-1.50E+01	-1.42E+01	-1.50E+01	-1.38E+01	-1.50E+01	-1.30E+01	-1.50E+01	-1.13E+01	-1.50E+01
-1.0E+01	-9.96E+00	-1.00E+01	-9.95E+00	-1.00E+01	-9.92E+00	-1.00E+01	-9.89E+00	-1.00E+01	-9.82E+00	-1.00E+01	-9.71E+00	-1.00E+01	-9.58E+00	-1.00E+01	-9.32E+00	-1.00E+01	-8.77E+00	-1.00E+01	-7.60E+00	-1.00E+01
-8.0E+00	-7.98E+00	-8.00E+00	-7.97E+00	-8.00E+00	-7.95E+00	-8.00E+00	-7.93E+00	-8.00E+00	-7.87E+00	-8.00E+00	-7.79E+00	-8.00E+00	-7.69E+00	-8.00E+00	-7.49E+00	-8.00E+00	-7.05E+00	-8.00E+00	-6.11E+00	-8.00E+00
-7.0E+00	-6.99E+00	-7.00E+00	-6.98E+00	-7.00E+00	-6.96E+00	-7.00E+00	-6.94E+00	-7.00E+00	-6.90E+00	-7.00E+00	-6.83E+00	-7.00E+00	-6.74E+00	-7.00E+00	-6.56E+00	-7.00E+00	-6.18E+00	-7.00E+00	-5.36E+00	-7.00E+00
-6.0E+00	-5.99E+00	-6.00E+00	-5.99E+00	-6.00E+00	-5.97E+00	-6.00E+00	-5.96E+00	-6.00E+00	-5.92E+00	-6.00E+00	-5.86E+00	-6.00E+00	-5.79E+00	-6.00E+00	-5.64E+00	-6.00E+00	-5.31E+00	-6.00E+00	-4.61E+00	-6.00E+00
-5.0E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.98E+00	-5.00E+00	-4.97E+00	-5.00E+00	-4.94E+00	-5.00E+00	-4.89E+00	-5.00E+00	-4.83E+00	-5.00E+00	-4.71E+00	-5.00E+00	-4.44E+00	-5.00E+00	-3.85E+00	-5.00E+00
-4.0E+00	-4.00E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.98E+00	-4.00E+00	-3.95E+00	-4.00E+00	-3.92E+00	-4.00E+00	-3.87E+00	-4.00E+00	-3.77E+00	-4.00E+00	-3.56E+00	-4.00E+00	-3.09E+00	-4.00E+00
-3.0E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.97E+00	-3.00E+00	-2.94E+00	-3.00E+00	-2.91E+00	-3.00E+00	-2.83E+00	-3.00E+00	-2.67E+00	-3.00E+00	-2.32E+00	-3.00E+00
-2.4E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.38E+00	-2.40E+00	-2.35E+00	-2.40E+00	-2.33E+00	-2.40E+00	-2.27E+00	-2.40E+00	-2.14E+00	-2.40E+00	-1.86E+00	-2.40E+00
-2.0E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.98E+00	-2.00E+00	-1.96E+00	-2.00E+00	-1.94E+00	-2.00E+00	-1.89E+00	-2.00E+00	-1.79E+00	-2.00E+00	-1.55E+00	-2.00E+00
-1.8E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.78E+00	-1.80E+00	-1.77E+00	-1.80E+00	-1.75E+00	-1.80E+00	-1.70E+00	-1.80E+00	-1.61E+00	-1.80E+00	-1.40E+00	-1.80E+00
-1.6E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.57E+00	-1.60E+00	-1.55E+00	-1.60E+00	-1.52E+00	-1.60E+00	-1.43E+00	-1.60E+00	-1.24E+00	-1.60E+00
-1.4E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.38E+00	-1.40E+00	-1.36E+00	-1.40E+00	-1.33E+00	-1.40E+00	-1.25E+00	-1.40E+00	-1.09E+00	-1.40E+00
-1.2E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.18E+00	-1.20E+00	-1.17E+00	-1.20E+00	-1.14E+00	-1.20E+00	-1.07E+00	-1.20E+00	-9.32E-01	-1.20E+00
-1.0E+00	-1.00E+00	-1.00E+00	-9.99E-01	-1.00E+00	-9.98E-01	-1.00E+00	-9.96E-01	-1.00E+00	-9.91E-01	-1.00E+00	-9.83E-01	-1.00E+00	-9.72E-01	-1.00E+00	-9.48E-01	-1.00E+00	-8.95E-01	-1.00E+00	-7.77E-01	-1.00E+00
-8.0E-01	-8.00E-01	-8.00E-01	-8.00E-01	-8.00E-01	-7.99E-01	-8.00E-01	-7.97E-01	-8.00E-01	-7.93E-01	-8.00E-01	-7.86E-01	-8.00E-01	-7.78E-01	-8.00E-01	-7.59E-01	-8.00E-01	-7.17E-01	-8.00E-01	-6.22E-01	-8.00E-01
-7.0E-01	-7.00E-01	-7.00E-01	-7.00E-01	-7.00E-01	-6.99E-01	-7.00E-01	-6.98E-01	-7.00E-01	-6.94E-01	-7.00E-01	-6.88E-01	-7.00E-01	-6.81E-01	-7.00E-01	-6.64E-01	-7.00E-01	-6.27E-01	-7.00E-01	-5.44E-01	-7.00E-01
-6.0E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-5.99E-01	-6.00E-01	-5.98E-01	-6.00E-01	-5.95E-01	-6.00E-01	-5.90E-01	-6.00E-01	-5.84E-01	-6.00E-01	-5.69E-01	-6.00E-01	-5.38E-01	-6.00E-01	-4.67E-01	-6.00E-01
-5.0E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-4.99E-01	-5.00E-01	-4.98E-01	-5.00E-01	-4.96E-01	-5.00E-01	-4.92E-01	-5.00E-01	-4.86E-01	-5.00E-01	-4.74E-01	-5.00E-01	-4.48E-01	-5.00E-01	-3.89E-01	-5.00E-01
-4.0E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-3.99E-01	-4.00E-01	-3.99E-01	-4.00E-01	-3.97E-01	-4.00E-01	-3.93E-01	-4.00E-01	-3.89E-01	-4.00E-01	-3.80E-01	-4.00E-01	-3.59E-01	-4.00E-01	-3.11E-01	-4.00E-01
-3.0E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.98E-01	-3.00E-01	-2.95E-01	-3.00E-01	-2.92E-01	-3.00E-01	-2.85E-01	-3.00E-01	-2.69E-01	-3.00E-01	-2.34E-01	-3.00E-01
-2.0E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.98E-01	-2.00E-01	-1.97E-01	-2.00E-01	-1.95E-01	-2.00E-01	-1.90E-01	-2.00E-01	-1.79E-01	-2.00E-01	-1.56E-01	-2.00E-01
-1.5E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.49E-01	-1.50E-01	-1.48E-01	-1.50E-01	-1.46E-01	-1.50E-01	-1.42E-01	-1.50E-01	-1.35E-01	-1.50E-01	-1.17E-01	-1.50E-01
-1.0E-01	-1.00E-01	-1.00E-01	-1.00E-01	-1.00E-01	-9.99E-02	-1.00E-01	-9.97E-02	-1.00E-01	-9.92E-02	-1.00E-01	-9.84E-02	-1.00E-01	-9.73E-02	-1.00E-01	-9.50E-02	-1.00E-01	-8.97E-02	-1.00E-01	-7.79E-02	-1.00E-01
-5.0E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-4.99E-02	-5.00E-02	-4.98E-02	-5.00E-02	-4.96E-02	-5.00E-02	-4.92E-02	-5.00E-02	-4.87E-02	-5.00E-02	-4.75E-02	-5.00E-02	-4.49E-02	-5.00E-02	-3.89E-02	-5.00E-02
0.0E+00	-9.56E-11	-9.56E-11	-5.39E-11	-5.39E-11	0.00E+00	0.00E+00	-2.48E-11	-2.48E-11	9.18E-11	9.18E-11	-8.41E-11	-8.41E-11	3.24E-11	3.24E-11	4.50E-11	4.50E-11	0.00E+00	0.00E+00	1.21E-10	1.21E-10
5.0E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	4.99E-02	5.00E-02	4.98E-02	5.00E-02	4.96E-02	5.00E-02	4.92E-02	5.00E-02	4.87E-02	5.00E-02	4.75E-02	5.00E-02	4.49E-02	5.00E-02	3.90E-02	5.00E-02
1.0E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	9.99E-02	1.00E-01	9.97E-02	1.00E-01	9.92E-02	1.00E-01	9.84E-02	1.00E-01	9.74E-02	1.00E-01	9.50E-02	1.00E-01	8.98E-02	1.00E-01	7.79E-02	1.00E-01
1.5E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.49E-01	1.50E-01	1.48E-01	1.50E-01	1.46E-01	1.50E-01	1.43E-01	1.50E-01	1.35E-01	1.50E-01	1.17E-01	1.50E-01
2.0E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	1.99E-01	2.00E-01	1.98E-01	2.00E-01	1.97E-01	2.00E-01	1.95E-01	2.00E-01	1.90E-01	2.00E-01	1.80E-01	2.00E-01	1.56E-01	2.00E-01
3.0E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	2.99E-01	3.00E-01	2.98E-01	3.00E-01	2.95E-01	3.00E-01	2.92E-01	3.00E-01	2.85E-01	3.00E-01	2.69E-01	3.00E-01	2.34E-01	3.00E-01
4.0E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	3.99E-01	4.00E-01	3.99E-01	4.00E-01	3.97E-01	4.00E-01	3.94E-01	4.00E-01	3.90E-01	4.00E-01	3.80E-01	4.00E-01	3.59E-01	4.00E-01	3.12E-01	4.00E-01
5.0E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	4.99E-01	5.00E-01	4.99E-01	5.00E-01	4.96E-01	5.00E-01	4.92E-01	5.00E-01	4.87E-01	5.00E-01	4.75E-01	5.00E-01	4.49E-01	5.00E-01	3.90E-01	5.00E-01
6.0E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	5.99E-01	6.00E-01	5.98E-01	6.00E-01	5.96E-01	6.00E-01	5.91E-01	6.00E-01	5.85E-01	6.00E-01	5.70E-01	6.00E-01	5.39E-01	6.00E-01	4.68E-01	6.00E-01
7.0E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	6.99E-01	7.00E-01	6.98E-01	7.00E-01	6.95E-01	7.00E-01	6.89E-01	7.00E-01	6.82E-01	7.00E-01	6.66E-01	7.00E-01	6.29E-01	7.00E-01	5.46E-01	7.00E-01
8.0E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	7.99E-01	8.00E-01	7.98E-01	8.00E-01	7.94E-01	8.00E-01	7.88E-01	8.00E-01	7.80E-01	8.00E-01	7.61E-01	8.00E-01	7.19E-01	8.00E-01	6.24E-01	8.00E-01
1.0E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.99E-01	1.00E+00	9.97E-01	1.00E+00	9.93E-01	1.00E+00	9.85E-01	1.00E+00	9.75E-01	1.00E+00	9.51E-01	1.00E+00	8.99E-01	1.00E+00	7.81E-01	1.00E+00
1.2E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.19E+00	1.20E+00	1.18E+00	1.20E+00	1.17E+00	1.20E+00	1.14E+00	1.20E+00	1.08E+00	1.20E+00	9.38E-01	1.20E+00
1.4E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.39E+00	1.40E+00	1.38E+00	1.40E+00	1.37E+00	1.40E+00	1.33E+00	1.40E+00	1.26E+00	1.40E+00	1.09E+00	1.40E+00
1.6E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.59E+00	1.60E+00	1.58E+00	1.60E+00	1.56E+00	1.60E+00	1.52E+00	1.60E+00	1.44E+00	1.60E+00	1.25E+00	1.60E+00
1.8E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.79E+00	1.80E+00	1.77E+00	1.80E+00	1.76E+00	1.80E+00	1.71E+00	1.80E+00	1.62E+00	1.80E+00	1.41E+00	1.80E+00
2.0E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	1.99E+00	2.00E+00	1.97E+00	2.00E+00	1.95E+00	2.00E+00	1.91E+00	2.00E+00	1.80E+00	2.00E+00	1.57E+00	2.00E+00
2.4E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.39E+00	2.40E+00	2.37E+00	2.40E+00	2.34E+00	2.40E+00	2.29E+00	2.40E+00	2.16E+00	2.40E+00	1.88E+00	2.40E+00
3.0E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	2.98E+00	3.00E+00	2.96E+00	3.00E+00	2.93E+00	3.00E+00	2.86E+00	3.00E+00	2.71E+00	3.00E+00	2.35E+00	3.00E+00
4.0E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	3.99E+00	4.00E+00	3.98E+00	4.00E+00	3.95E+00	4.00E+00	3.91E+00	4.00E+00	3.83E+00	4.00E+00	3.62E+00	4.00E+00	3.15E+00	4.00E+00
5.0E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	4.98E+00	5.00E+00	4.94E+00	5.00E+00	4.90E+00	5.00E+00	4.79E+00	5.00E+00	4.53E+00	5.00E+00	3.94E+00	5.00E+00
6.0E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	5.98E+00	6.00E+00	5.94E+00	6.00E+00	5.89E+00	6.00E+00	5.76E+00	6.00E+00	5.45E+00	6.00E+00	4.74E+00	6.00E+00
7.0E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	6.98E+00	7.00E+00	6.93E+00	7.00E+00	6.88E+00	7.00E+00	6.73E+00	7.00E+00	6.37E+00	7.00E+00	5.54E+00	7.00E+00
8.0E+00	7.99E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	7.98E+00	8.00E+00	7.93E+00	8.00E+00	7.87E+00	8.00E+00	7.70E+00	8.00E+00	7.30E+00	8.00E+00	6.35E+00	8.00E+00
1.0E+01	9.98E+00	1.00E+01	9.99E+00	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	9.98E+00	1.00E+01	9.93E+00	1.00E+01	9.86E+00	1.00E+01	9.65E+00	1.00E+01	9.16E+00	1.00E+01	7.98E+00	1.00E+01
1.5E+01	1.49E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.49E+01	1.50E+01	1.49E+01	1.50E+01	1.46E+01	1.50E+01	1.39E+01	1.50E+01	1.21E+01	1.50E+01
2.0E+01	1.98E+01	2.00E+01	1.99E+01	2.00E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.99E+01	2.00E+01	1.96E+01	2.00E+01	1.87E+01	2.00E+01	1.63E+01	2.00E+01
3.0E+01	2.94E+01	3.00E+01	2.95E+01	3.00E+01	2.96E+01	3.00E+01	2.98E+01	3.00E+01	2.99E+01	3.00E+01	3.00E+01	3.00E+01	3.00E+01	3.00E+01	2.97E+01	3.00E+01	2.85E+01	3.00E+01	2.50E+01	3.00E+01
4.0E+01	3.86E+01	4.00E+01	3.87E+01	4.00E+01	3.90E+01	4.00E+01	3.92E+01	4.00E+01	3.96E+01	4.00E+01	3.99E+01	4.00E+01	4.00E+01	4.00E+01	3.98E+01	4.00E+01	3.85E+01	4.00E+01	3.41E+01	4.00E+01
6.0E+01	5.53E+01	6.00E+01	5.57E+01	6.00E+01	5.63E+01	6.00E+01	5.69E+01	6.00E+01	5.79E+01	6.00E+01	5.88E+01	6.00E+01	5.95E+01	6.00E+01	6.00E+01	6.00E+01	5.91E+01	6.00E+01	5.31E+01	6.00E+01
1.0E+02	8.16E+01	1.00E+02	8.25E+01	1.00E+02	8.41E+01	1.00E+02	8.56E+01	1.00E+02	8.83E+01	1.00E+02	9.13E+01	1.00E+02	9.37E+01	1.00E+02	9.73E+01	1.00E+02	1.00E+02	1.00E+02	9.43E+01	1.00E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Test of reversibility of the equations for computing the energy: the first column has the starting value of Q, the other columns
contain calculated values q_calc(E0,E_calc(E0,THETA,Q),THETA) using E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.

Scattering angle [deg] 120.0

E [keV]:+---- 1.00E+01----+---- 2.00E+01----+---- 4.00E+01----+---- 6.00E+01----+---- 1.00E+02----+---- 1.50E+02----+---- 2.00E+02----+---- 3.00E+02----+---- 5.00E+02----+---- 1.00E+03----

Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	-8.04E+01	-1.00E+02	-8.01E+01	-1.00E+02	-7.94E+01	-1.00E+02	-7.87E+01	-1.00E+02	-7.74E+01	-1.00E+02	-7.59E+01	-1.00E+02	-7.45E+01	-1.00E+02	-7.19E+01	-1.00E+02	-6.75E+01	-1.00E+02	-5.94E+01	-1.00E+02		
-6.0E+01	-5.47E+01	-6.00E+01	-5.45E+01	-6.00E+01	-5.40E+01	-6.00E+01	-5.36E+01	-6.00E+01	-5.27E+01	-6.00E+01	-5.16E+01	-6.00E+01	-5.06E+01	-6.00E+01	-4.87E+01	-6.00E+01	-4.54E+01	-6.00E+01	-3.95E+01	-6.00E+01		
-4.0E+01	-3.83E+01	-4.00E+01	-3.81E+01	-4.00E+01	-3.78E+01	-4.00E+01	-3.76E+01	-4.00E+01	-3.70E+01	-4.00E+01	-3.63E+01	-4.00E+01	-3.56E+01	-4.00E+01	-3.43E+01	-4.00E+01	-3.20E+01	-4.00E+01	-2.77E+01	-4.00E+01		
-3.0E+01	-2.92E+01	-3.00E+01	-2.91E+01	-3.00E+01	-2.89E+01	-3.00E+01	-2.88E+01	-3.00E+01	-2.84E+01	-3.00E+01	-2.79E+01	-3.00E+01	-2.74E+01	-3.00E+01	-2.64E+01	-3.00E+01	-2.46E+01	-3.00E+01	-2.13E+01	-3.00E+01		
-2.0E+01	-1.97E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.96E+01	-2.00E+01	-1.95E+01	-2.00E+01	-1.93E+01	-2.00E+01	-1.90E+01	-2.00E+01	-1.86E+01	-2.00E+01	-1.80E+01	-2.00E+01	-1.68E+01	-2.00E+01	-1.45E+01	-2.00E+01		
-1.5E+01	-1.49E+01	-1.50E+01	-1.49E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.47E+01	-1.50E+01	-1.46E+01	-1.50E+01	-1.43E+01	-1.50E+01	-1.41E+01	-1.50E+01	-1.37E+01	-1.50E+01	-1.28E+01	-1.50E+01	-1.10E+01	-1.50E+01		
-1.0E+01	-9.96E+00	-1.00E+01	-9.95E+00	-1.00E+01	-9.91E+00	-1.00E+01	-9.87E+00	-1.00E+01	-9.78E+00	-1.00E+01	-9.64E+00	-1.00E+01	-9.50E+00	-1.00E+01	-9.20E+00	-1.00E+01	-8.61E+00	-1.00E+01	-7.43E+00	-1.00E+01		
-8.0E+00	-7.98E+00	-8.00E+00	-7.97E+00	-8.00E+00	-7.94E+00	-8.00E+00	-7.91E+00	-8.00E+00	-7.84E+00	-8.00E+00	-7.74E+00	-8.00E+00	-7.63E+00	-8.00E+00	-7.39E+00	-8.00E+00	-6.92E+00	-8.00E+00	-5.97E+00	-8.00E+00		
-7.0E+00	-6.98E+00	-7.00E+00	-6.98E+00	-7.00E+00	-6.96E+00	-7.00E+00	-6.93E+00	-7.00E+00	-6.87E+00	-7.00E+00	-6.78E+00	-7.00E+00	-6.68E+00	-7.00E+00	-6.48E+00	-7.00E+00	-6.07E+00	-7.00E+00	-5.24E+00	-7.00E+00		
-6.0E+00	-5.99E+00	-6.00E+00	-5.98E+00	-6.00E+00	-5.97E+00	-6.00E+00	-5.95E+00	-6.00E+00	-5.90E+00	-6.00E+00	-5.82E+00	-6.00E+00	-5.74E+00	-6.00E+00	-5.56E+00	-6.00E+00	-5.21E+00	-6.00E+00	-4.50E+00	-6.00E+00		
-5.0E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.98E+00	-5.00E+00	-4.96E+00	-5.00E+00	-4.92E+00	-5.00E+00	-4.86E+00	-5.00E+00	-4.79E+00	-5.00E+00	-4.64E+00	-5.00E+00	-4.35E+00	-5.00E+00	-3.76E+00	-5.00E+00		
-4.0E+00	-4.00E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.98E+00	-4.00E+00	-3.97E+00	-4.00E+00	-3.94E+00	-4.00E+00	-3.89E+00	-4.00E+00	-3.84E+00	-4.00E+00	-3.72E+00	-4.00E+00	-3.49E+00	-4.00E+00	-3.01E+00	-4.00E+00		
-3.0E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.98E+00	-3.00E+00	-2.96E+00	-3.00E+00	-2.92E+00	-3.00E+00	-2.88E+00	-3.00E+00	-2.80E+00	-3.00E+00	-2.62E+00	-3.00E+00	-2.27E+00	-3.00E+00		
-2.4E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.37E+00	-2.40E+00	-2.34E+00	-2.40E+00	-2.31E+00	-2.40E+00	-2.24E+00	-2.40E+00	-2.10E+00	-2.40E+00	-1.81E+00	-2.40E+00		
-2.0E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.97E+00	-2.00E+00	-1.95E+00	-2.00E+00	-1.93E+00	-2.00E+00	-1.87E+00	-2.00E+00	-1.75E+00	-2.00E+00	-1.51E+00	-2.00E+00		
-1.8E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.78E+00	-1.80E+00	-1.76E+00	-1.80E+00	-1.73E+00	-1.80E+00	-1.68E+00	-1.80E+00	-1.58E+00	-1.80E+00	-1.36E+00	-1.80E+00		
-1.6E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.58E+00	-1.60E+00	-1.56E+00	-1.60E+00	-1.54E+00	-1.60E+00	-1.50E+00	-1.60E+00	-1.40E+00	-1.60E+00	-1.21E+00	-1.60E+00		
-1.4E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.38E+00	-1.40E+00	-1.37E+00	-1.40E+00	-1.35E+00	-1.40E+00	-1.31E+00	-1.40E+00	-1.23E+00	-1.40E+00	-1.06E+00	-1.40E+00		
-1.2E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.17E+00	-1.20E+00	-1.16E+00	-1.20E+00	-1.12E+00	-1.20E+00	-1.05E+00	-1.20E+00	-9.10E-01	-1.20E+00		
-1.0E+00	-1.00E+00	-1.00E+00	-9.99E-01	-1.00E+00	-9.97E-01	-1.00E+00	-9.95E-01	-1.00E+00	-9.88E-01	-1.00E+00	-9.77E-01	-1.00E+00	-9.64E-01	-1.00E+00	-9.36E-01	-1.00E+00	-8.78E-01	-1.00E+00	-7.59E-01	-1.00E+00		
-8.0E-01	-8.00E-01	-8.00E-01	-7.99E-01	-8.00E-01	-7.98E-01	-8.00E-01	-7.96E-01	-8.00E-01	-7.91E-01	-8.00E-01	-7.82E-01	-8.00E-01	-7.72E-01	-8.00E-01	-7.49E-01	-8.00E-01	-7.03E-01	-8.00E-01	-6.07E-01	-8.00E-01		
-7.0E-01	-7.00E-01	-7.00E-01	-6.99E-01	-7.00E-01	-6.98E-01	-7.00E-01	-6.97E-01	-7.00E-01	-6.92E-01	-7.00E-01	-6.84E-01	-7.00E-01	-6.75E-01	-7.00E-01	-6.56E-01	-7.00E-01	-6.15E-01	-7.00E-01	-5.31E-01	-7.00E-01		
-6.0E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-5.99E-01	-6.00E-01	-5.97E-01	-6.00E-01	-5.93E-01	-6.00E-01	-5.87E-01	-6.00E-01	-5.79E-01	-6.00E-01	-5.62E-01	-6.00E-01	-5.27E-01	-6.00E-01	-4.56E-01	-6.00E-01		
-5.0E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-4.99E-01	-5.00E-01	-4.98E-01	-5.00E-01	-4.94E-01	-5.00E-01	-4.89E-01	-5.00E-01	-4.82E-01	-5.00E-01	-4.68E-01	-5.00E-01	-4.40E-01	-5.00E-01	-3.80E-01	-5.00E-01		
-4.0E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-3.99E-01	-4.00E-01	-3.98E-01	-4.00E-01	-3.95E-01	-4.00E-01	-3.91E-01	-4.00E-01	-3.86E-01	-4.00E-01	-3.75E-01	-4.00E-01	-3.52E-01	-4.00E-01	-3.04E-01	-4.00E-01		
-3.0E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.97E-01	-3.00E-01	-2.93E-01	-3.00E-01	-2.90E-01	-3.00E-01	-2.81E-01	-3.00E-01	-2.64E-01	-3.00E-01	-2.28E-01	-3.00E-01		
-2.0E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.98E-01	-2.00E-01	-1.96E-01	-2.00E-01	-1.93E-01	-2.00E-01	-1.87E-01	-2.00E-01	-1.76E-01	-2.00E-01	-1.52E-01	-2.00E-01		
-1.5E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.49E-01	-1.50E-01	-1.48E-01	-1.50E-01	-1.47E-01	-1.50E-01	-1.45E-01	-1.50E-01	-1.41E-01	-1.50E-01	-1.32E-01	-1.50E-01	-1.14E-01	-1.50E-01		
-1.0E-01	-1.00E-01	-1.00E-01	-9.99E-02	-1.00E-01	-9.98E-02	-1.00E-01	-9.96E-02	-1.00E-01	-9.89E-02	-1.00E-01	-9.78E-02	-1.00E-01	-9.66E-02	-1.00E-01	-9.37E-02	-1.00E-01	-8.80E-02	-1.00E-01	-7.60E-02	-1.00E-01		
-5.0E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-4.99E-02	-5.00E-02	-4.98E-02	-5.00E-02	-4.95E-02	-5.00E-02	-4.89E-02	-5.00E-02	-4.83E-02	-5.00E-02	-4.69E-02	-5.00E-02	-4.40E-02	-5.00E-02	-3.80E-02	-5.00E-02		
0.0E+00	9.49E-11	9.49E-11	-2.96E-11	-2.96E-11	7.59E-11	7.59E-11	-6.21E-11	-6.21E-11	-7.77E-11	-7.77E-11	-7.21E-11	-7.21E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.04E-10	-2.04E-10	-1.11E-10	-1.11E-10		
5.0E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	4.99E-02	5.00E-02	4.98E-02	5.00E-02	4.95E-02	5.00E-02	4.89E-02	5.00E-02	4.83E-02	5.00E-02	4.69E-02	5.00E-02	4.40E-02	5.00E-02	3.80E-02	5.00E-02		
1.0E-01	1.00E-01	1.00E-01	9.99E-02	1.00E-01	9.98E-02	1.00E-01	9.96E-02	1.00E-01	9.89E-02	1.00E-01	9.78E-02	1.00E-01	9.66E-02	1.00E-01	9.38E-02	1.00E-01	8.80E-02	1.00E-01	7.61E-02	1.00E-01		
1.5E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.49E-01	1.50E-01	1.48E-01	1.50E-01	1.47E-01	1.50E-01	1.45E-01	1.50E-01	1.41E-01	1.50E-01	1.32E-01	1.50E-01	1.14E-01	1.50E-01		
2.0E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	1.99E-01	2.00E-01	1.98E-01	2.00E-01	1.96E-01	2.00E-01	1.93E-01	2.00E-01	1.88E-01	2.00E-01	1.76E-01	2.00E-01	1.52E-01	2.00E-01		
3.0E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	2.99E-01	3.00E-01	2.99E-01	3.00E-01	2.97E-01	3.00E-01	2.94E-01	3.00E-01	2.90E-01	3.00E-01	2.81E-01	3.00E-01	2.64E-01	3.00E-01	2.28E-01	3.00E-01		
4.0E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	3.99E-01	4.00E-01	3.98E-01	4.00E-01	3.96E-01	4.00E-01	3.92E-01	4.00E-01	3.86E-01	4.00E-01	3.75E-01	4.00E-01	3.52E-01	4.00E-01	3.04E-01	4.00E-01		
5.0E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	4.99E-01	5.00E-01	4.98E-01	5.00E-01	4.95E-01	5.00E-01	4.89E-01	5.00E-01	4.83E-01	5.00E-01	4.69E-01	5.00E-01	4.41E-01	5.00E-01	3.81E-01	5.00E-01		
6.0E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	5.99E-01	6.00E-01	5.98E-01	6.00E-01	5.94E-01	6.00E-01	5.87E-01	6.00E-01	5.80E-01	6.00E-01	5.63E-01	6.00E-01	5.29E-01	6.00E-01	4.57E-01	6.00E-01		
7.0E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	6.99E-01	7.00E-01	6.97E-01	7.00E-01	6.93E-01	7.00E-01	6.85E-01	7.00E-01	6.77E-01	7.00E-01	6.57E-01	7.00E-01	6.17E-01	7.00E-01	5.33E-01	7.00E-01		
8.0E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	7.99E-01	8.00E-01	7.97E-01	8.00E-01	7.92E-01	8.00E-01	7.83E-01	8.00E-01	7.73E-01	8.00E-01	7.51E-01	8.00E-01	7.05E-01	8.00E-01	6.09E-01	8.00E-01		
1.0E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.98E-01	1.00E+00	9.96E-01	1.00E+00	9.90E-01	1.00E+00	9.80E-01	1.00E+00	9.67E-01	1.00E+00	9.39E-01	1.00E+00	8.82E-01	1.00E+00	7.62E-01	1.00E+00		
1.2E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.19E+00	1.20E+00	1.18E+00	1.20E+00	1.16E+00	1.20E+00	1.13E+00	1.20E+00	1.06E+00	1.20E+00	9.15E-01	1.20E+00		
1.4E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.39E+00	1.40E+00	1.37E+00	1.40E+00	1.35E+00	1.40E+00	1.32E+00	1.40E+00	1.24E+00	1.40E+00	1.07E+00	1.40E+00		
1.6E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.59E+00	1.60E+00	1.58E+00	1.60E+00	1.57E+00	1.60E+00	1.55E+00	1.60E+00	1.50E+00	1.60E+00	1.41E+00	1.60E+00	1.22E+00	1.60E+00		
1.8E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.79E+00	1.80E+00	1.78E+00	1.80E+00	1.76E+00	1.80E+00	1.74E+00	1.80E+00	1.69E+00	1.80E+00	1.59E+00	1.80E+00	1.37E+00	1.80E+00		
2.0E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	1.99E+00	2.00E+00	1.98E+00	2.00E+00	1.96E+00	2.00E+00	1.94E+00	2.00E+00	1.88E+00	2.00E+00	1.77E+00	2.00E+00	1.53E+00	2.00E+00		
2.4E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.39E+00	2.40E+00	2.38E+00	2.40E+00	2.35E+00	2.40E+00	2.33E+00	2.40E+00	2.26E+00	2.40E+00	2.12E+00	2.40E+00	1.83E+00	2.40E+00		
3.0E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	2.99E+00	3.00E+00	2.98E+00	3.00E+00	2.95E+00	3.00E+00	2.91E+00	3.00E+00	2.83E+00	3.00E+00	2.66E+00	3.00E+00	2.30E+00	3.00E+00		
4.0E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	3.99E+00	4.00E+00	3.97E+00	4.00E+00	3.93E+00	4.00E+00	3.88E+00	4.00E+00	3.78E+00	4.00E+00	3.55E+00	4.00E+00	3.07E+00	4.00E+00		
5.0E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	4.99E+00	5.00E+00	4.97E+00	5.00E+00	4.92E+00	5.00E+00	4.86E+00	5.00E+00	4.73E+00	5.00E+00	4.45E+00	5.00E+00	3.84E+00	5.00E+00		
6.0E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	5.99E+00	6.00E+00	5.96E+00	6.00E+00	5.91E+00	6.00E+00	5.84E+00	6.00E+00	5.69E+00	6.00E+00	5.35E+00	6.00E+00	4.62E+00	6.00E+00		
7.0E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	6.99E+00	7.00E+00	6.96E+00	7.00E+00	6.90E+00	7.00E+00	6.83E+00	7.00E+00	6.64E+00	7.00E+00	6.25E+00	7.00E+00	5.41E+00	7.00E+00		
8.0E+00	7.99E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	7.99E+00	8.00E+00	7.96E+00	8.00E+00	7.90E+00	8.00E+00	7.81E+00	8.00E+00	7.61E+00	8.00E+00	7.16E+00	8.00E+00	6.19E+00	8.00E+00		
1.0E+01	9.98E+00	1.00E+01	9.99E+00	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	9.96E+00	1.00E+01	9.89E+00	1.00E+01	9.79E+00	1.00E+01	9.54E+00	1.00E+01	8.99E+00	1.00E+01	7.77E+00	1.00E+01		
1.5E+01	1.49E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.49E+01	1.50E+01	1.48E+01	1.50E+01	1.44E+01	1.50E+01	1.36E+01	1.50E+01	1.18E+01	1.50E+01		
2.0E+01	1.98E+01	2.00E+01	1.99E+01	2.00E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.99E+01	2.00E+01	1.98E+01	2.00E+01	1.94E+01	2.00E+01	1.83E+01	2.00E+01	1.59E+01	2.00E+01		
3.0E+01	2.94E+01	3.00E+01	2.95E+01	3.00E+01	2.97E+01	3.00E+01	2.98E+01	3.00E+01	3.00E+01	3.00E+01	3.00E+01	3.00E+01	2.99E+01	3.00E+01	2.94E+01	3.00E+01	2.80E+01	3.00E+01	2.43E+01	3.00E+01		
4.0E+01	3.86E+01	4.00E+01	3.88E+01	4.00E+01	3.91E+01	4.00E+01	3.94E+01	4.00E+01	3.98E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	3.95E+01	4.00E+01	3.79E+01	4.00E+01	3.31E+01	4.00E+01		
6.0E+01	5.54E+01	6.00E+01	5.59E+01	6.00E+01	5.67E+01	6.00E+01	5.74E+01	6.00E+01	5.85E+01	6.00E+01	5.93E+01	6.00E+01	5.98E+01	6.00E+01	5.99E+01	6.00E+01	5.82E+01	6.00E+01	5.16E+01	6.00E+01		
1.0E+02	8.19E+01	1.00E+02	8.30E+01	1.00E+02	8.51E+01	1.00E+02	8.70E+01	1.00E+02	9.03E+01	1.00E+02	9.35E+01	1.00E+02	9.59E+01	1.00E+02	9.89E+01	1.00E+02	9.98E+01	1.00E+02	9.16E+01	1.00E+02		

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

Test of reversibility of the equations for computing the energy: the first column has the starting value of Q, the other columns
contain calculated values q_calc(E0,E_calc(E0,THETA,Q),THETA) using E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.

Scattering angle [deg] 150.0

E [keV]:	1.00E+01		2.00E+01		4.00E+01		6.00E+01		1.00E+02		1.50E+02		2.00E+02		3.00E+02		5.00E+02		1.00E+03	
Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	-8.04E+01	-1.00E+02	-8.00E+01	-1.00E+02	-7.93E+01	-1.00E+02	-7.86E+01	-1.00E+02	-7.73E+01	-1.00E+02	-7.57E+01	-1.00E+02	-7.43E+01	-1.00E+02	-7.16E+01	-1.00E+02	-6.71E+01	-1.00E+02	-5.91E+01	-1.00E+02
-6.0E+01	-5.47E+01	-6.00E+01	-5.45E+01	-6.00E+01	-5.40E+01	-6.00E+01	-5.35E+01	-6.00E+01	-5.25E+01	-6.00E+01	-5.14E+01	-6.00E+01	-5.04E+01	-6.00E+01	-4.84E+01	-6.00E+01	-4.51E+01	-6.00E+01	-3.92E+01	-6.00E+01
-4.0E+01	-3.82E+01	-4.00E+01	-3.81E+01	-4.00E+01	-3.78E+01	-4.00E+01	-3.75E+01	-4.00E+01	-3.69E+01	-4.00E+01	-3.61E+01	-4.00E+01	-3.54E+01	-4.00E+01	-3.41E+01	-4.00E+01	-3.17E+01	-4.00E+01	-2.74E+01	-4.00E+01
-3.0E+01	-2.92E+01	-3.00E+01	-2.91E+01	-3.00E+01	-2.89E+01	-3.00E+01	-2.87E+01	-3.00E+01	-2.83E+01	-3.00E+01	-2.77E+01	-3.00E+01	-2.72E+01	-3.00E+01	-2.62E+01	-3.00E+01	-2.44E+01	-3.00E+01	-2.11E+01	-3.00E+01
-2.0E+01	-1.97E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.96E+01	-2.00E+01	-1.95E+01	-2.00E+01	-1.92E+01	-2.00E+01	-1.89E+01	-2.00E+01	-1.85E+01	-2.00E+01	-1.79E+01	-2.00E+01	-1.67E+01	-2.00E+01	-1.44E+01	-2.00E+01
-1.5E+01	-1.49E+01	-1.50E+01	-1.49E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.47E+01	-1.50E+01	-1.45E+01	-1.50E+01	-1.43E+01	-1.50E+01	-1.40E+01	-1.50E+01	-1.36E+01	-1.50E+01	-1.26E+01	-1.50E+01	-1.09E+01	-1.50E+01
-1.0E+01	-9.96E+00	-1.00E+01	-9.94E+00	-1.00E+01	-9.90E+00	-1.00E+01	-9.86E+00	-1.00E+01	-9.76E+00	-1.00E+01	-9.61E+00	-1.00E+01	-9.45E+00	-1.00E+01	-9.13E+00	-1.00E+01	-8.53E+00	-1.00E+01	-7.35E+00	-1.00E+01
-8.0E+00	-7.98E+00	-8.00E+00	-7.97E+00	-8.00E+00	-7.94E+00	-8.00E+00	-7.90E+00	-8.00E+00	-7.83E+00	-8.00E+00	-7.71E+00	-8.00E+00	-7.59E+00	-8.00E+00	-7.34E+00	-8.00E+00	-6.85E+00	-8.00E+00	-5.91E+00	-8.00E+00
-7.0E+00	-6.98E+00	-7.00E+00	-6.97E+00	-7.00E+00	-6.95E+00	-7.00E+00	-6.92E+00	-7.00E+00	-6.86E+00	-7.00E+00	-6.76E+00	-7.00E+00	-6.65E+00	-7.00E+00	-6.43E+00	-7.00E+00	-6.01E+00	-7.00E+00	-5.18E+00	-7.00E+00
-6.0E+00	-5.99E+00	-6.00E+00	-5.98E+00	-6.00E+00	-5.96E+00	-6.00E+00	-5.94E+00	-6.00E+00	-5.88E+00	-6.00E+00	-5.80E+00	-6.00E+00	-5.71E+00	-6.00E+00	-5.52E+00	-6.00E+00	-5.16E+00	-6.00E+00	-4.45E+00	-6.00E+00
-5.0E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.97E+00	-5.00E+00	-4.95E+00	-5.00E+00	-4.91E+00	-5.00E+00	-4.84E+00	-5.00E+00	-4.77E+00	-5.00E+00	-4.61E+00	-5.00E+00	-4.31E+00	-5.00E+00	-3.72E+00	-5.00E+00
-4.0E+00	-4.00E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.98E+00	-4.00E+00	-3.97E+00	-4.00E+00	-3.93E+00	-4.00E+00	-3.88E+00	-4.00E+00	-3.82E+00	-4.00E+00	-3.70E+00	-4.00E+00	-3.46E+00	-4.00E+00	-2.98E+00	-4.00E+00
-3.0E+00	-3.00E+00	-3.00E+00	-3.00E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.98E+00	-3.00E+00	-2.95E+00	-3.00E+00	-2.91E+00	-3.00E+00	-2.87E+00	-3.00E+00	-2.78E+00	-3.00E+00	-2.60E+00	-3.00E+00	-2.24E+00	-3.00E+00
-2.4E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.38E+00	-2.40E+00	-2.36E+00	-2.40E+00	-2.33E+00	-2.40E+00	-2.30E+00	-2.40E+00	-2.22E+00	-2.40E+00	-2.08E+00	-2.40E+00	-1.80E+00	-2.40E+00
-2.0E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.97E+00	-2.00E+00	-1.94E+00	-2.00E+00	-1.92E+00	-2.00E+00	-1.86E+00	-2.00E+00	-1.74E+00	-2.00E+00	-1.50E+00	-2.00E+00
-1.8E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.77E+00	-1.80E+00	-1.75E+00	-1.80E+00	-1.73E+00	-1.80E+00	-1.67E+00	-1.80E+00	-1.56E+00	-1.80E+00	-1.35E+00	-1.80E+00
-1.6E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.58E+00	-1.60E+00	-1.56E+00	-1.60E+00	-1.53E+00	-1.60E+00	-1.49E+00	-1.60E+00	-1.39E+00	-1.60E+00	-1.20E+00	-1.60E+00
-1.4E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.38E+00	-1.40E+00	-1.36E+00	-1.40E+00	-1.34E+00	-1.40E+00	-1.30E+00	-1.40E+00	-1.22E+00	-1.40E+00	-1.05E+00	-1.40E+00
-1.2E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.18E+00	-1.20E+00	-1.17E+00	-1.20E+00	-1.15E+00	-1.20E+00	-1.11E+00	-1.20E+00	-1.04E+00	-1.20E+00	-9.00E-01	-1.20E+00
-1.0E+00	-1.00E+00	-1.00E+00	-9.99E-01	-1.00E+00	-9.97E-01	-1.00E+00	-9.94E-01	-1.00E+00	-9.86E-01	-1.00E+00	-9.74E-01	-1.00E+00	-9.60E-01	-1.00E+00	-9.29E-01	-1.00E+00	-8.70E-01	-1.00E+00	-7.50E-01	-1.00E+00
-8.0E-01	-8.00E-01	-8.00E-01	-7.99E-01	-8.00E-01	-7.98E-01	-8.00E-01	-7.95E-01	-8.00E-01	-7.89E-01	-8.00E-01	-7.79E-01	-8.00E-01	-7.68E-01	-8.00E-01	-7.44E-01	-8.00E-01	-6.96E-01	-8.00E-01	-6.01E-01	-8.00E-01
-7.0E-01	-7.00E-01	-7.00E-01	-6.99E-01	-7.00E-01	-6.98E-01	-7.00E-01	-6.96E-01	-7.00E-01	-6.91E-01	-7.00E-01	-6.82E-01	-7.00E-01	-6.72E-01	-7.00E-01	-6.51E-01	-7.00E-01	-6.09E-01	-7.00E-01	-5.26E-01	-7.00E-01
-6.0E-01	-6.00E-01	-6.00E-01	-6.00E-01	-6.00E-01	-5.98E-01	-6.00E-01	-5.97E-01	-6.00E-01	-5.92E-01	-6.00E-01	-5.85E-01	-6.00E-01	-5.76E-01	-6.00E-01	-5.58E-01	-6.00E-01	-5.22E-01	-6.00E-01	-4.51E-01	-6.00E-01
-5.0E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-4.99E-01	-5.00E-01	-4.97E-01	-5.00E-01	-4.93E-01	-5.00E-01	-4.87E-01	-5.00E-01	-4.80E-01	-5.00E-01	-4.65E-01	-5.00E-01	-4.35E-01	-5.00E-01	-3.76E-01	-5.00E-01
-4.0E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-3.99E-01	-4.00E-01	-3.98E-01	-4.00E-01	-3.95E-01	-4.00E-01	-3.90E-01	-4.00E-01	-3.84E-01	-4.00E-01	-3.72E-01	-4.00E-01	-3.48E-01	-4.00E-01	-3.01E-01	-4.00E-01
-3.0E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.98E-01	-3.00E-01	-2.96E-01	-3.00E-01	-2.92E-01	-3.00E-01	-2.88E-01	-3.00E-01	-2.79E-01	-3.00E-01	-2.61E-01	-3.00E-01	-2.25E-01	-3.00E-01
-2.0E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.97E-01	-2.00E-01	-1.95E-01	-2.00E-01	-1.92E-01	-2.00E-01	-1.86E-01	-2.00E-01	-1.74E-01	-2.00E-01	-1.50E-01	-2.00E-01
-1.5E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.49E-01	-1.50E-01	-1.48E-01	-1.50E-01	-1.46E-01	-1.50E-01	-1.44E-01	-1.50E-01	-1.40E-01	-1.50E-01	-1.31E-01	-1.50E-01	-1.13E-01	-1.50E-01
-1.0E-01	-1.00E-01	-1.00E-01	-9.99E-02	-1.00E-01	-9.97E-02	-1.00E-01	-9.95E-02	-1.00E-01	-9.87E-02	-1.00E-01	-9.75E-02	-1.00E-01	-9.61E-02	-1.00E-01	-9.31E-02	-1.00E-01	-8.72E-02	-1.00E-01	-7.52E-02	-1.00E-01
-5.0E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-4.99E-02	-5.00E-02	-4.97E-02	-5.00E-02	-4.94E-02	-5.00E-02	-4.87E-02	-5.00E-02	-4.81E-02	-5.00E-02	-4.66E-02	-5.00E-02	-4.36E-02	-5.00E-02	-3.76E-02	-5.00E-02
0.0E+00	-4.60E-11	-4.60E-11	-8.68E-11	-8.68E-11	6.89E-11	6.89E-11	-3.78E-11	-3.78E-11	7.14E-11	7.14E-11	-3.34E-11	-3.34E-11	0.00E+00	0.00E+00	-7.42E-11	-7.42E-11	0.00E+00	0.00E+00	-1.07E-10	-1.07E-10
5.0E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	4.99E-02	5.00E-02	4.97E-02	5.00E-02	4.94E-02	5.00E-02	4.88E-02	5.00E-02	4.81E-02	5.00E-02	4.66E-02	5.00E-02	4.36E-02	5.00E-02	3.76E-02	5.00E-02
1.0E-01	1.00E-01	1.00E-01	9.99E-02	1.00E-01	9.98E-02	1.00E-01	9.95E-02	1.00E-01	9.87E-02	1.00E-01	9.75E-02	1.00E-01	9.61E-02	1.00E-01	9.31E-02	1.00E-01	8.72E-02	1.00E-01	7.52E-02	1.00E-01
1.5E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.49E-01	1.50E-01	1.48E-01	1.50E-01	1.46E-01	1.50E-01	1.44E-01	1.50E-01	1.40E-01	1.50E-01	1.31E-01	1.50E-01	1.13E-01	1.50E-01
2.0E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	1.99E-01	2.00E-01	1.97E-01	2.00E-01	1.95E-01	2.00E-01	1.92E-01	2.00E-01	1.86E-01	2.00E-01	1.74E-01	2.00E-01	1.50E-01	2.00E-01
3.0E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	2.99E-01	3.00E-01	2.98E-01	3.00E-01	2.96E-01	3.00E-01	2.93E-01	3.00E-01	2.88E-01	3.00E-01	2.79E-01	3.00E-01	2.62E-01	3.00E-01	2.26E-01	3.00E-01
4.0E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	3.99E-01	4.00E-01	3.98E-01	4.00E-01	3.95E-01	4.00E-01	3.90E-01	4.00E-01	3.85E-01	4.00E-01	3.73E-01	4.00E-01	3.49E-01	4.00E-01	3.01E-01	4.00E-01
5.0E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	4.99E-01	5.00E-01	4.98E-01	5.00E-01	4.94E-01	5.00E-01	4.88E-01	5.00E-01	4.81E-01	5.00E-01	4.66E-01	5.00E-01	4.36E-01	5.00E-01	3.76E-01	5.00E-01
6.0E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	5.99E-01	6.00E-01	5.97E-01	6.00E-01	5.93E-01	6.00E-01	5.85E-01	6.00E-01	5.77E-01	6.00E-01	5.59E-01	6.00E-01	5.24E-01	6.00E-01	4.52E-01	6.00E-01
7.0E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	6.98E-01	7.00E-01	6.97E-01	7.00E-01	6.91E-01	7.00E-01	6.83E-01	7.00E-01	6.73E-01	7.00E-01	6.51E-01	7.00E-01	6.11E-01	7.00E-01	5.27E-01	7.00E-01
8.0E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	7.98E-01	8.00E-01	7.96E-01	8.00E-01	7.90E-01	8.00E-01	7.81E-01	8.00E-01	7.70E-01	8.00E-01	7.46E-01	8.00E-01	6.99E-01	8.00E-01	6.03E-01	8.00E-01
1.0E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.98E-01	1.00E+00	9.95E-01	1.00E+00	9.88E-01	1.00E+00	9.76E-01	1.00E+00	9.63E-01	1.00E+00	9.33E-01	1.00E+00	8.74E-01	1.00E+00	7.54E-01	1.00E+00
1.2E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.19E+00	1.20E+00	1.19E+00	1.20E+00	1.17E+00	1.20E+00	1.16E+00	1.20E+00	1.12E+00	1.20E+00	1.05E+00	1.20E+00	9.05E-01	1.20E+00
1.4E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.39E+00	1.40E+00	1.38E+00	1.40E+00	1.37E+00	1.40E+00	1.35E+00	1.40E+00	1.31E+00	1.40E+00	1.22E+00	1.40E+00	1.06E+00	1.40E+00
1.6E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.59E+00	1.60E+00	1.58E+00	1.60E+00	1.56E+00	1.60E+00	1.54E+00	1.60E+00	1.49E+00	1.60E+00	1.40E+00	1.60E+00	1.21E+00	1.60E+00
1.8E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.79E+00	1.80E+00	1.78E+00	1.80E+00	1.76E+00	1.80E+00	1.73E+00	1.80E+00	1.68E+00	1.80E+00	1.57E+00	1.80E+00	1.36E+00	1.80E+00
2.0E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	1.99E+00	2.00E+00	1.98E+00	2.00E+00	1.95E+00	2.00E+00	1.93E+00	2.00E+00	1.87E+00	2.00E+00	1.75E+00	2.00E+00	1.51E+00	2.00E+00
2.4E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.39E+00	2.40E+00	2.37E+00	2.40E+00	2.35E+00	2.40E+00	2.31E+00	2.40E+00	2.24E+00	2.40E+00	2.10E+00	2.40E+00	1.81E+00	2.40E+00
3.0E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	2.99E+00	3.00E+00	2.97E+00	3.00E+00	2.94E+00	3.00E+00	2.90E+00	3.00E+00	2.81E+00	3.00E+00	2.63E+00	3.00E+00	2.27E+00	3.00E+00
4.0E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	3.99E+00	4.00E+00	3.96E+00	4.00E+00	3.92E+00	4.00E+00	3.87E+00	4.00E+00	3.75E+00	4.00E+00	3.52E+00	4.00E+00	3.03E+00	4.00E+00
5.0E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	4.99E+00	5.00E+00	4.96E+00	5.00E+00	4.90E+00	5.00E+00	4.84E+00	5.00E+00	4.70E+00	5.00E+00	4.40E+00	5.00E+00	3.80E+00	5.00E+00
6.0E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	5.99E+00	6.00E+00	5.95E+00	6.00E+00	5.89E+00	6.00E+00	5.82E+00	6.00E+00	5.65E+00	6.00E+00	5.30E+00	6.00E+00	4.57E+00	6.00E+00
7.0E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	6.99E+00	7.00E+00	6.95E+00	7.00E+00	6.88E+00	7.00E+00	6.80E+00	7.00E+00	6.60E+00	7.00E+00	6.19E+00	7.00E+00	5.35E+00	7.00E+00
8.0E+00	7.99E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	7.99E+00	8.00E+00	7.95E+00	8.00E+00	7.87E+00	8.00E+00	7.78E+00	8.00E+00	7.55E+00	8.00E+00	7.09E+00	8.00E+00	6.12E+00	8.00E+00
1.0E+01	9.99E+00	1.00E+01	9.99E+00	1.00E+01	1.00E+01	1.00E+01	9.99E+00	1.00E+01	9.95E+00	1.00E+01	9.86E+00	1.00E+01	9.75E+00	1.00E+01	9.47E+00	1.00E+01	8.90E+00	1.00E+01	7.69E+00	1.00E+01
1.5E+01	1.49E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.49E+01	1.50E+01	1.47E+01	1.50E+01	1.43E+01	1.50E+01	1.35E+01	1.50E+01	1.17E+01	1.50E+01
2.0E+01	1.98E+01	2.00E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.99E+01	2.00E+01	1.97E+01	2.00E+01	1.92E+01	2.00E+01	1.81E+01	2.00E+01	1.57E+01	2.00E+01
3.0E+01	2.94E+01	3.00E+01	2.96E+01	3.00E+01	2.97E+01	3.00E+01	2.99E+01	3.00E+01	3.00E+01	3.00E+01	3.00E+01	3.00E+01	2.98E+01	3.00E+01	2.92E+01	3.00E+01	2.77E+01	3.00E+01	2.40E+01	3.00E+01
4.0E+01	3.86E+01	4.00E+01	3.89E+01	4.00E+01	3.92E+01	4.00E+01	3.95E+01	4.00E+01	3.99E+01	4.00E+01	4.00E+01	4.00E+01	3.99E+01	4.00E+01	3.93E+01	4.00E+01	3.75E+01	4.00E+01	3.27E+01	4.00E+01
6.0E+01	5.55E+01	6.00E+01	5.60E+01	6.00E+01	5.69E+01	6.00E+01	5.76E+01	6.00E+01	5.88E+01	6.00E+01	5.96E+01	6.00E+01	5.99E+01	6.00E+01	5.98E+01	6.00E+01	5.77E+01	6.00E+01	5.08E+01	6.00E+01
1.0E+02	8.21E+01	1.00E+02	8.34E+01	1.00E+02	8.58E+01	1.00E+02	8.79E+01	1.00E+02	9.14E+01	1.00E+02	9.47E+01	1.00E+02	9.70E+01	1.00E+02	9.95E+01	1.00E+02	9.93E+01	1.00E+02	9.02E+01	1.00E+02

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).

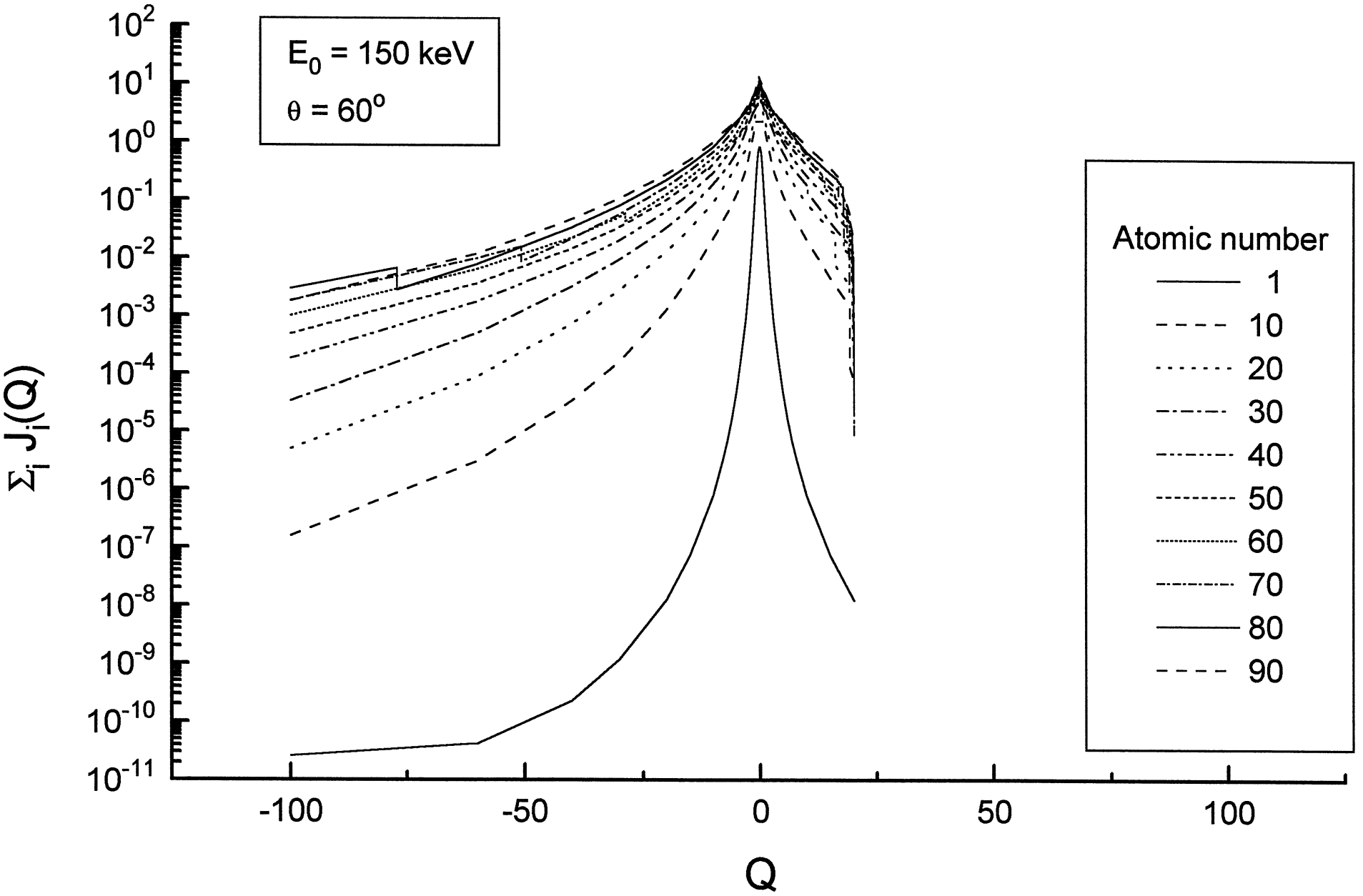
Test of reversibility of the equations for computing the energy: the first column has the starting value of Q, the other columns
contain calculated values q_calc(E0,E_calc(E0,THETA,Q),THETA) using E_AT_Cox and E_JEF_RB as functions E_calc to compute the energy.

Scattering angle [deg] 180.0

E [keV]:+---- 1.00E+01----+---- 2.00E+01----+---- 4.00E+01----+---- 6.00E+01----+---- 1.00E+02----+---- 1.50E+02----+---- 2.00E+02----+---- 3.00E+02----+---- 5.00E+02----+---- 1.00E+03----

Q	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB	AT-Cox	JEF-RB
-1.0E+02	-8.04E+01	-1.00E+02	-8.00E+01	-1.00E+02	-7.93E+01	-1.00E+02	-7.86E+01	-1.00E+02	-7.72E+01	-1.00E+02	-7.57E+01	-1.00E+02	-7.42E+01	-1.00E+02	-7.15E+01	-1.00E+02	-6.70E+01	-1.00E+02	-5.90E+01	-1.00E+02		
-6.0E+01	-5.47E+01	-6.00E+01	-5.44E+01	-6.00E+01	-5.39E+01	-6.00E+01	-5.35E+01	-6.00E+01	-5.25E+01	-6.00E+01	-5.14E+01	-6.00E+01	-5.03E+01	-6.00E+01	-4.83E+01	-6.00E+01	-4.50E+01	-6.00E+01	-3.91E+01	-6.00E+01		
-4.0E+01	-3.82E+01	-4.00E+01	-3.81E+01	-4.00E+01	-3.78E+01	-4.00E+01	-3.75E+01	-4.00E+01	-3.69E+01	-4.00E+01	-3.61E+01	-4.00E+01	-3.54E+01	-4.00E+01	-3.40E+01	-4.00E+01	-3.17E+01	-4.00E+01	-2.74E+01	-4.00E+01		
-3.0E+01	-2.92E+01	-3.00E+01	-2.91E+01	-3.00E+01	-2.89E+01	-3.00E+01	-2.87E+01	-3.00E+01	-2.83E+01	-3.00E+01	-2.77E+01	-3.00E+01	-2.72E+01	-3.00E+01	-2.61E+01	-3.00E+01	-2.43E+01	-3.00E+01	-2.10E+01	-3.00E+01		
-2.0E+01	-1.97E+01	-2.00E+01	-1.97E+01	-2.00E+01	-1.96E+01	-2.00E+01	-1.95E+01	-2.00E+01	-1.92E+01	-2.00E+01	-1.89E+01	-2.00E+01	-1.85E+01	-2.00E+01	-1.78E+01	-2.00E+01	-1.66E+01	-2.00E+01	-1.43E+01	-2.00E+01		
-1.5E+01	-1.49E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.48E+01	-1.50E+01	-1.47E+01	-1.50E+01	-1.45E+01	-1.50E+01	-1.43E+01	-1.50E+01	-1.40E+01	-1.50E+01	-1.35E+01	-1.50E+01	-1.26E+01	-1.50E+01	-1.09E+01	-1.50E+01		
-1.0E+01	-9.96E+00	-1.00E+01	-9.94E+00	-1.00E+01	-9.90E+00	-1.00E+01	-9.86E+00	-1.00E+01	-9.75E+00	-1.00E+01	-9.60E+00	-1.00E+01	-9.44E+00	-1.00E+01	-9.11E+00	-1.00E+01	-8.51E+00	-1.00E+01	-7.33E+00	-1.00E+01		
-8.0E+00	-7.98E+00	-8.00E+00	-7.96E+00	-8.00E+00	-7.94E+00	-8.00E+00	-7.90E+00	-8.00E+00	-7.82E+00	-8.00E+00	-7.70E+00	-8.00E+00	-7.58E+00	-8.00E+00	-7.32E+00	-8.00E+00	-6.83E+00	-8.00E+00	-5.89E+00	-8.00E+00		
-7.0E+00	-6.98E+00	-7.00E+00	-6.97E+00	-7.00E+00	-6.95E+00	-7.00E+00	-6.92E+00	-7.00E+00	-6.85E+00	-7.00E+00	-6.75E+00	-7.00E+00	-6.64E+00	-7.00E+00	-6.42E+00	-7.00E+00	-5.99E+00	-7.00E+00	-5.17E+00	-7.00E+00		
-6.0E+00	-5.99E+00	-6.00E+00	-5.98E+00	-6.00E+00	-5.96E+00	-6.00E+00	-5.94E+00	-6.00E+00	-5.88E+00	-6.00E+00	-5.79E+00	-6.00E+00	-5.70E+00	-6.00E+00	-5.51E+00	-6.00E+00	-5.15E+00	-6.00E+00	-4.44E+00	-6.00E+00		
-5.0E+00	-4.99E+00	-5.00E+00	-4.99E+00	-5.00E+00	-4.97E+00	-5.00E+00	-4.95E+00	-5.00E+00	-4.91E+00	-5.00E+00	-4.84E+00	-5.00E+00	-4.76E+00	-5.00E+00	-4.60E+00	-5.00E+00	-4.30E+00	-5.00E+00	-3.71E+00	-5.00E+00		
-4.0E+00	-4.00E+00	-4.00E+00	-3.99E+00	-4.00E+00	-3.98E+00	-4.00E+00	-3.97E+00	-4.00E+00	-3.93E+00	-4.00E+00	-3.87E+00	-4.00E+00	-3.81E+00	-4.00E+00	-3.69E+00	-4.00E+00	-3.45E+00	-4.00E+00	-2.97E+00	-4.00E+00		
-3.0E+00	-3.00E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.99E+00	-3.00E+00	-2.98E+00	-3.00E+00	-2.95E+00	-3.00E+00	-2.91E+00	-3.00E+00	-2.87E+00	-3.00E+00	-2.77E+00	-3.00E+00	-2.59E+00	-3.00E+00	-2.23E+00	-3.00E+00		
-2.4E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.40E+00	-2.39E+00	-2.40E+00	-2.38E+00	-2.40E+00	-2.36E+00	-2.40E+00	-2.33E+00	-2.40E+00	-2.29E+00	-2.40E+00	-2.22E+00	-2.40E+00	-2.08E+00	-2.40E+00	-1.79E+00	-2.40E+00		
-2.0E+00	-2.00E+00	-2.00E+00	-2.00E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.99E+00	-2.00E+00	-1.97E+00	-2.00E+00	-1.94E+00	-2.00E+00	-1.91E+00	-2.00E+00	-1.85E+00	-2.00E+00	-1.73E+00	-2.00E+00	-1.49E+00	-2.00E+00		
-1.8E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.79E+00	-1.80E+00	-1.77E+00	-1.80E+00	-1.75E+00	-1.80E+00	-1.72E+00	-1.80E+00	-1.67E+00	-1.80E+00	-1.56E+00	-1.80E+00	-1.34E+00	-1.80E+00		
-1.6E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.59E+00	-1.60E+00	-1.58E+00	-1.60E+00	-1.55E+00	-1.60E+00	-1.53E+00	-1.60E+00	-1.48E+00	-1.60E+00	-1.39E+00	-1.60E+00	-1.20E+00	-1.60E+00		
-1.4E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.40E+00	-1.39E+00	-1.40E+00	-1.38E+00	-1.40E+00	-1.36E+00	-1.40E+00	-1.34E+00	-1.40E+00	-1.30E+00	-1.40E+00	-1.21E+00	-1.40E+00	-1.05E+00	-1.40E+00		
-1.2E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.20E+00	-1.19E+00	-1.20E+00	-1.18E+00	-1.20E+00	-1.17E+00	-1.20E+00	-1.15E+00	-1.20E+00	-1.11E+00	-1.20E+00	-1.04E+00	-1.20E+00	-8.97E-01	-1.20E+00		
-1.0E+00	-1.00E+00	-1.00E+00	-9.99E-01	-1.00E+00	-9.97E-01	-1.00E+00	-9.94E-01	-1.00E+00	-9.86E-01	-1.00E+00	-9.73E-01	-1.00E+00	-9.58E-01	-1.00E+00	-9.27E-01	-1.00E+00	-8.67E-01	-1.00E+00	-7.48E-01	-1.00E+00		
-8.0E-01	-8.00E-01	-8.00E-01	-7.99E-01	-8.00E-01	-7.98E-01	-8.00E-01	-7.95E-01	-8.00E-01	-7.89E-01	-8.00E-01	-7.78E-01	-8.00E-01	-7.67E-01	-8.00E-01	-7.42E-01	-8.00E-01	-6.94E-01	-8.00E-01	-5.99E-01	-8.00E-01		
-7.0E-01	-7.00E-01	-7.00E-01	-6.99E-01	-7.00E-01	-6.98E-01	-7.00E-01	-6.96E-01	-7.00E-01	-6.90E-01	-7.00E-01	-6.81E-01	-7.00E-01	-6.71E-01	-7.00E-01	-6.50E-01	-7.00E-01	-6.08E-01	-7.00E-01	-5.24E-01	-7.00E-01		
-6.0E-01	-6.00E-01	-6.00E-01	-5.99E-01	-6.00E-01	-5.98E-01	-6.00E-01	-5.96E-01	-6.00E-01	-5.92E-01	-6.00E-01	-5.84E-01	-6.00E-01	-5.75E-01	-6.00E-01	-5.57E-01	-6.00E-01	-5.21E-01	-6.00E-01	-4.49E-01	-6.00E-01		
-5.0E-01	-5.00E-01	-5.00E-01	-5.00E-01	-5.00E-01	-4.99E-01	-5.00E-01	-4.97E-01	-5.00E-01	-4.93E-01	-5.00E-01	-4.87E-01	-5.00E-01	-4.79E-01	-5.00E-01	-4.64E-01	-5.00E-01	-4.34E-01	-5.00E-01	-3.74E-01	-5.00E-01		
-4.0E-01	-4.00E-01	-4.00E-01	-4.00E-01	-4.00E-01	-3.99E-01	-4.00E-01	-3.98E-01	-4.00E-01	-3.94E-01	-4.00E-01	-3.89E-01	-4.00E-01	-3.84E-01	-4.00E-01	-3.71E-01	-4.00E-01	-3.47E-01	-4.00E-01	-3.00E-01	-4.00E-01		
-3.0E-01	-3.00E-01	-3.00E-01	-3.00E-01	-3.00E-01	-2.99E-01	-3.00E-01	-2.98E-01	-3.00E-01	-2.96E-01	-3.00E-01	-2.92E-01	-3.00E-01	-2.88E-01	-3.00E-01	-2.79E-01	-3.00E-01	-2.61E-01	-3.00E-01	-2.25E-01	-3.00E-01		
-2.0E-01	-2.00E-01	-2.00E-01	-2.00E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.99E-01	-2.00E-01	-1.97E-01	-2.00E-01	-1.95E-01	-2.00E-01	-1.92E-01	-2.00E-01	-1.86E-01	-2.00E-01	-1.74E-01	-2.00E-01	-1.50E-01	-2.00E-01		
-1.5E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.50E-01	-1.49E-01	-1.50E-01	-1.48E-01	-1.50E-01	-1.46E-01	-1.50E-01	-1.44E-01	-1.50E-01	-1.39E-01	-1.50E-01	-1.30E-01	-1.50E-01	-1.12E-01	-1.50E-01		
-1.0E-01	-1.00E-01	-1.00E-01	-9.99E-02	-1.00E-01	-9.97E-02	-1.00E-01	-9.94E-02	-1.00E-01	-9.86E-02	-1.00E-01	-9.74E-02	-1.00E-01	-9.59E-02	-1.00E-01	-9.29E-02	-1.00E-01	-8.69E-02	-1.00E-01	-7.50E-02	-1.00E-01		
-5.0E-02	-5.00E-02	-5.00E-02	-5.00E-02	-5.00E-02	-4.99E-02	-5.00E-02	-4.97E-02	-5.00E-02	-4.93E-02	-5.00E-02	-4.87E-02	-5.00E-02	-4.80E-02	-5.00E-02	-4.64E-02	-5.00E-02	-4.35E-02	-5.00E-02	-3.75E-02	-5.00E-02		
0.0E+00	6.03E-11	6.03E-11	-1.29E-11	-1.29E-11	9.36E-11	9.36E-11	1.29E-10	1.29E-10	9.28E-11	9.28E-11	2.28E-10	2.28E-10	2.55E-10	2.55E-10	3.64E-10	3.64E-10	4.77E-10	4.77E-10	7.42E-10	7.42E-10		
5.0E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	4.99E-02	5.00E-02	4.97E-02	5.00E-02	4.93E-02	5.00E-02	4.87E-02	5.00E-02	4.80E-02	5.00E-02	4.65E-02	5.00E-02	4.35E-02	5.00E-02	3.75E-02	5.00E-02		
1.0E-01	1.00E-01	1.00E-01	9.99E-02	1.00E-01	9.97E-02	1.00E-01	9.95E-02	1.00E-01	9.87E-02	1.00E-01	9.74E-02	1.00E-01	9.60E-02	1.00E-01	9.29E-02	1.00E-01	8.69E-02	1.00E-01	7.50E-02	1.00E-01		
1.5E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.49E-01	1.50E-01	1.48E-01	1.50E-01	1.46E-01	1.50E-01	1.44E-01	1.50E-01	1.39E-01	1.50E-01	1.30E-01	1.50E-01	1.12E-01	1.50E-01		
2.0E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	1.99E-01	2.00E-01	1.99E-01	2.00E-01	1.97E-01	2.00E-01	1.95E-01	2.00E-01	1.92E-01	2.00E-01	1.86E-01	2.00E-01	1.74E-01	2.00E-01	1.50E-01	2.00E-01		
3.0E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	2.99E-01	3.00E-01	2.98E-01	3.00E-01	2.96E-01	3.00E-01	2.92E-01	3.00E-01	2.88E-01	3.00E-01	2.79E-01	3.00E-01	2.61E-01	3.00E-01	2.25E-01	3.00E-01		
4.0E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	3.99E-01	4.00E-01	3.98E-01	4.00E-01	3.95E-01	4.00E-01	3.90E-01	4.00E-01	3.84E-01	4.00E-01	3.72E-01	4.00E-01	3.48E-01	4.00E-01	3.00E-01	4.00E-01		
5.0E-01	5.00E-01	5.00E-01	5.00E-01	5.00E-01	4.99E-01	5.00E-01	4.97E-01	5.00E-01	4.94E-01	5.00E-01	4.87E-01	5.00E-01	4.80E-01	5.00E-01	4.65E-01	5.00E-01	4.35E-01	5.00E-01	3.75E-01	5.00E-01		
6.0E-01	6.00E-01	6.00E-01	6.00E-01	6.00E-01	5.99E-01	6.00E-01	5.97E-01	6.00E-01	5.92E-01	6.00E-01	5.85E-01	6.00E-01	5.76E-01	6.00E-01	5.58E-01	6.00E-01	5.22E-01	6.00E-01	4.50E-01	6.00E-01		
7.0E-01	7.00E-01	7.00E-01	7.00E-01	7.00E-01	6.98E-01	7.00E-01	6.96E-01	7.00E-01	6.91E-01	7.00E-01	6.82E-01	7.00E-01	6.72E-01	7.00E-01	6.51E-01	7.00E-01	6.09E-01	7.00E-01	5.26E-01	7.00E-01		
8.0E-01	8.00E-01	8.00E-01	8.00E-01	8.00E-01	7.98E-01	8.00E-01	7.96E-01	8.00E-01	7.90E-01	8.00E-01	7.80E-01	8.00E-01	7.69E-01	8.00E-01	7.44E-01	8.00E-01	6.96E-01	8.00E-01	6.01E-01	8.00E-01		
1.0E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.98E-01	1.00E+00	9.95E-01	1.00E+00	9.87E-01	1.00E+00	9.75E-01	1.00E+00	9.61E-01	1.00E+00	9.31E-01	1.00E+00	8.71E-01	1.00E+00	7.51E-01	1.00E+00		
1.2E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.19E+00	1.20E+00	1.19E+00	1.20E+00	1.17E+00	1.20E+00	1.15E+00	1.20E+00	1.12E+00	1.20E+00	1.05E+00	1.20E+00	9.02E-01	1.20E+00		
1.4E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.39E+00	1.40E+00	1.38E+00	1.40E+00	1.37E+00	1.40E+00	1.35E+00	1.40E+00	1.30E+00	1.40E+00	1.22E+00	1.40E+00	1.05E+00	1.40E+00		
1.6E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00	1.59E+00	1.60E+00	1.58E+00	1.60E+00	1.56E+00	1.60E+00	1.54E+00	1.60E+00	1.49E+00	1.60E+00	1.40E+00	1.60E+00	1.20E+00	1.60E+00		
1.8E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.80E+00	1.79E+00	1.80E+00	1.78E+00	1.80E+00	1.76E+00	1.80E+00	1.73E+00	1.80E+00	1.68E+00	1.80E+00	1.57E+00	1.80E+00	1.35E+00	1.80E+00		
2.0E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	2.00E+00	1.99E+00	2.00E+00	1.98E+00	2.00E+00	1.95E+00	2.00E+00	1.93E+00	2.00E+00	1.86E+00	2.00E+00	1.75E+00	2.00E+00	1.51E+00	2.00E+00		
2.4E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.40E+00	2.39E+00	2.40E+00	2.37E+00	2.40E+00	2.34E+00	2.40E+00	2.31E+00	2.40E+00	2.24E+00	2.40E+00	2.10E+00	2.40E+00	1.81E+00	2.40E+00		
3.0E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	2.99E+00	3.00E+00	2.97E+00	3.00E+00	2.93E+00	3.00E+00	2.89E+00	3.00E+00	2.80E+00	3.00E+00	2.62E+00	3.00E+00	2.26E+00	3.00E+00		
4.0E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	3.99E+00	4.00E+00	3.96E+00	4.00E+00	3.92E+00	4.00E+00	3.86E+00	4.00E+00	3.74E+00	4.00E+00	3.51E+00	4.00E+00	3.02E+00	4.00E+00		
5.0E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	5.00E+00	4.99E+00	5.00E+00	4.96E+00	5.00E+00	4.90E+00	5.00E+00	4.83E+00	5.00E+00	4.69E+00	5.00E+00	4.39E+00	5.00E+00	3.79E+00	5.00E+00		
6.0E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	6.00E+00	5.99E+00	6.00E+00	5.95E+00	6.00E+00	5.89E+00	6.00E+00	5.81E+00	6.00E+00	5.63E+00	6.00E+00	5.28E+00	6.00E+00	4.56E+00	6.00E+00		
7.0E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	7.00E+00	6.99E+00	7.00E+00	6.95E+00	7.00E+00	6.88E+00	7.00E+00	6.79E+00	7.00E+00	6.58E+00	7.00E+00	6.17E+00	7.00E+00	5.33E+00	7.00E+00		
8.0E+00	7.99E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	8.00E+00	7.99E+00	8.00E+00	7.95E+00	8.00E+00	7.87E+00	8.00E+00	7.77E+00	8.00E+00	7.54E+00	8.00E+00	7.07E+00	8.00E+00	6.10E+00	8.00E+00		
1.0E+01	9.99E+00	1.00E+01	9.99E+00	1.00E+01	1.00E+01	1.00E+01	9.99E+00	1.00E+01	9.95E+00	1.00E+01	9.85E+00	1.00E+01	9.73E+00	1.00E+01	9.45E+00	1.00E+01	8.87E+00	1.00E+01	7.66E+00	1.00E+01		
1.5E+01	1.49E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.50E+01	1.48E+01	1.50E+01	1.47E+01	1.50E+01	1.43E+01	1.50E+01	1.34E+01	1.50E+01	1.16E+01	1.50E+01		
2.0E+01	1.98E+01	2.00E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.99E+01	2.00E+01	1.97E+01	2.00E+01	1.92E+01	2.00E+01	1.81E+01	2.00E+01	1.56E+01	2.00E+01		
3.0E+01	2.94E+01	3.00E+01	2.96E+01	3.00E+01	2.98E+01	3.00E+01	2.99E+01	3.00E+01	3.00E+01	3.00E+01	2.99E+01	3.00E+01	2.98E+01	3.00E+01	2.92E+01	3.00E+01	2.76E+01	3.00E+01	2.39E+01	3.00E+01		
4.0E+01	3.87E+01	4.00E+01	3.89E+01	4.00E+01	3.92E+01	4.00E+01	3.95E+01	4.00E+01	3.99E+01	4.00E+01	4.00E+01	4.00E+01	3.99E+01	4.00E+01	3.93E+01	4.00E+01	3.74E+01	4.00E+01	3.25E+01	4.00E+01		
6.0E+01	5.55E+01	6.00E+01	5.61E+01	6.00E+01	5.70E+01	6.00E+01	5.77E+01	6.00E+01	5.88E+01	6.00E+01	5.96E+01	6.00E+01	6.00E+01	6.00E+01	5.97E+01	6.00E+01	5.76E+01	6.00E+01	5.06E+01	6.00E+01		
1.0E+02	8.22E+01	1.00E+02	8.36E+01	1.00E+02	8.60E+01	1.00E+02	8.82E+01	1.00E+02	9.18E+01	1.00E+02	9.51E+01	1.00E+02	9.73E+01	1.00E+02	9.96E+01	1.00E+02	9.92E+01	1.00E+02	8.98E+01	1.00E+02		

AT-Cox stands for Tartari correction to Eqn (17) in Cox, Phys Rev A13, 229 (1971).
JEF-RB stands for Fernandez inversion of Eqn (17) in Ribberfors and Berggren, Phys Rev A26, 3325 (1982).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10^1
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10^{-5}
10^{-6}
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Q
Atomic number
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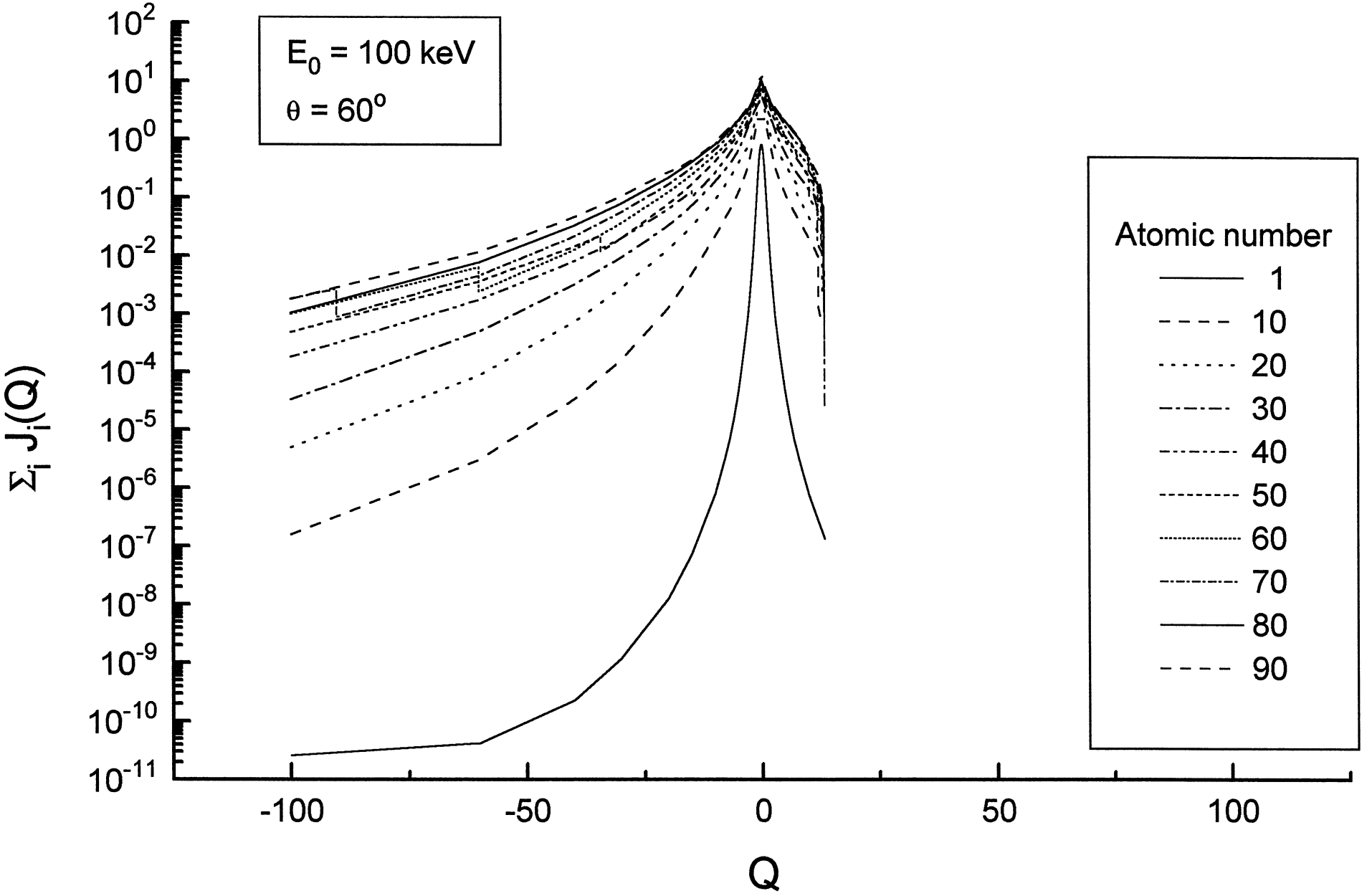
90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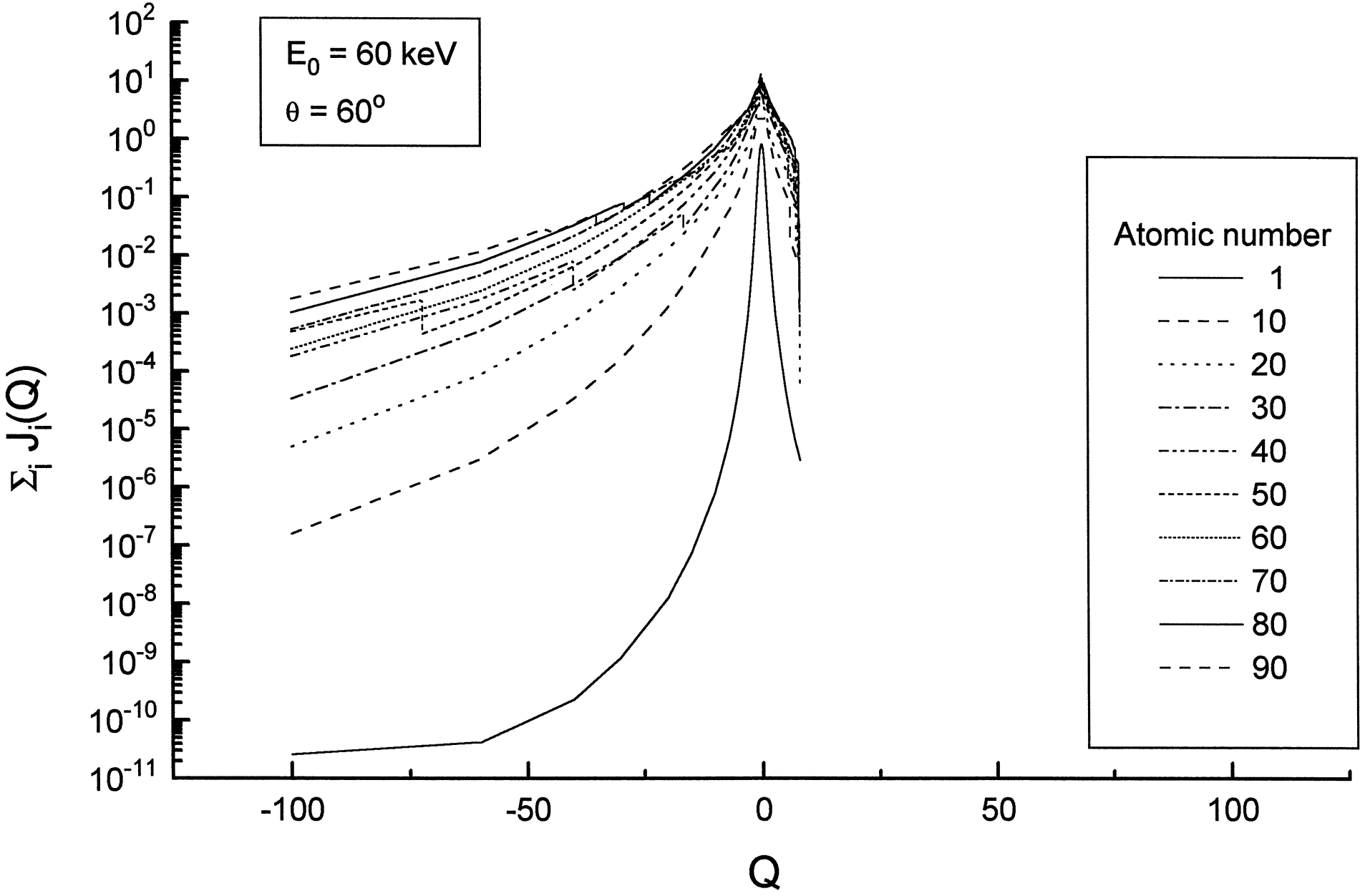
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10^1
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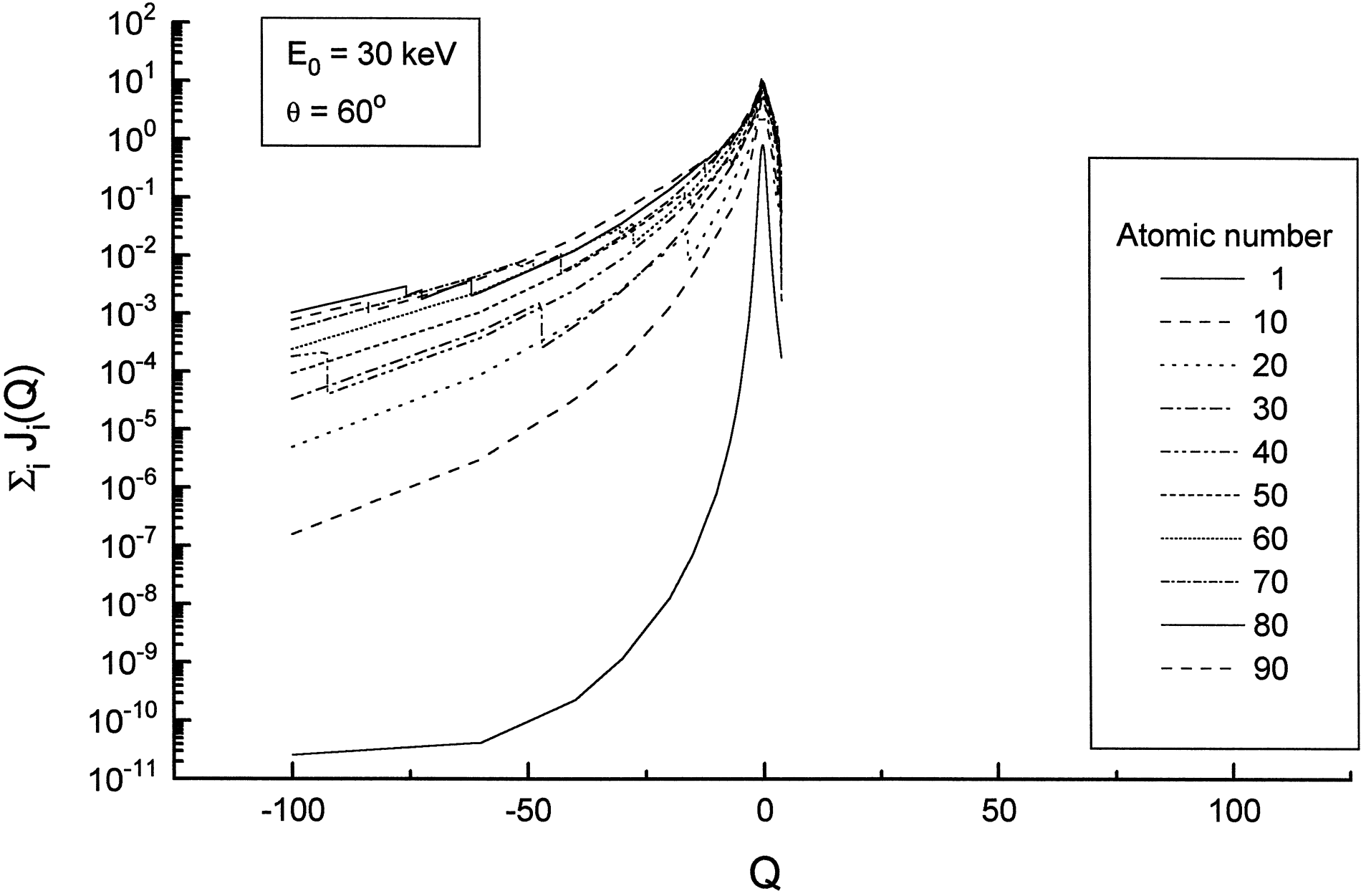
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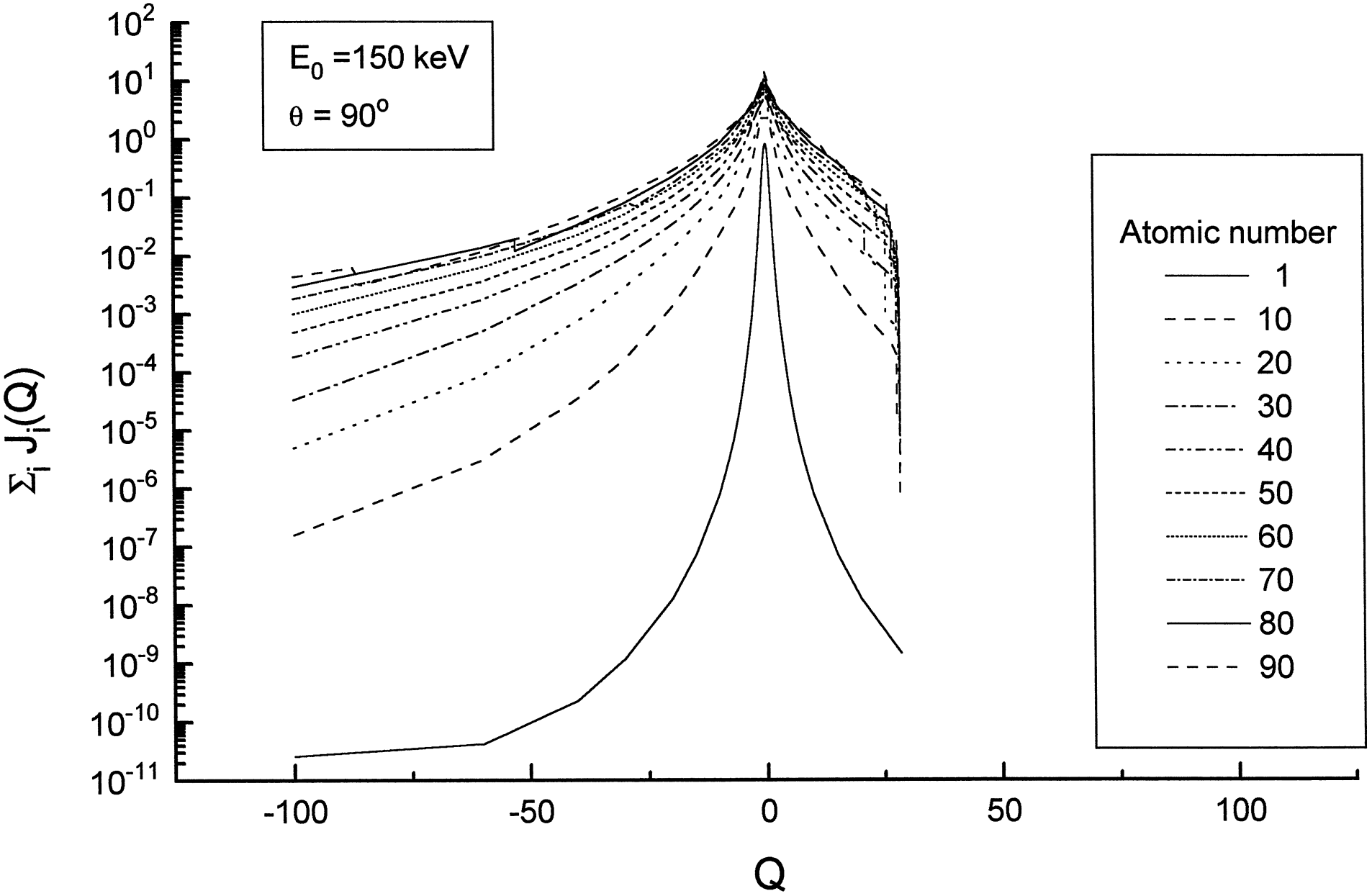
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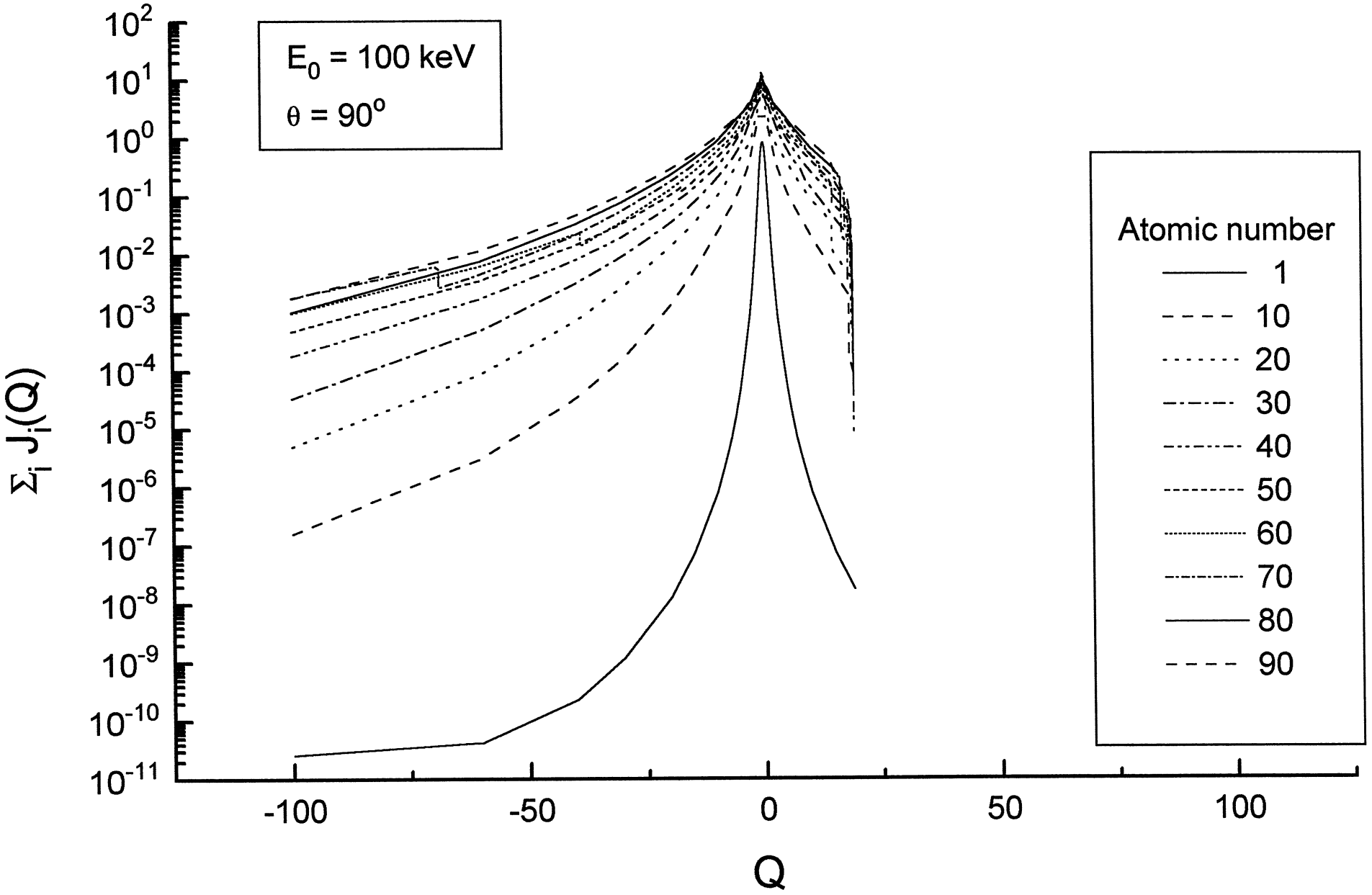
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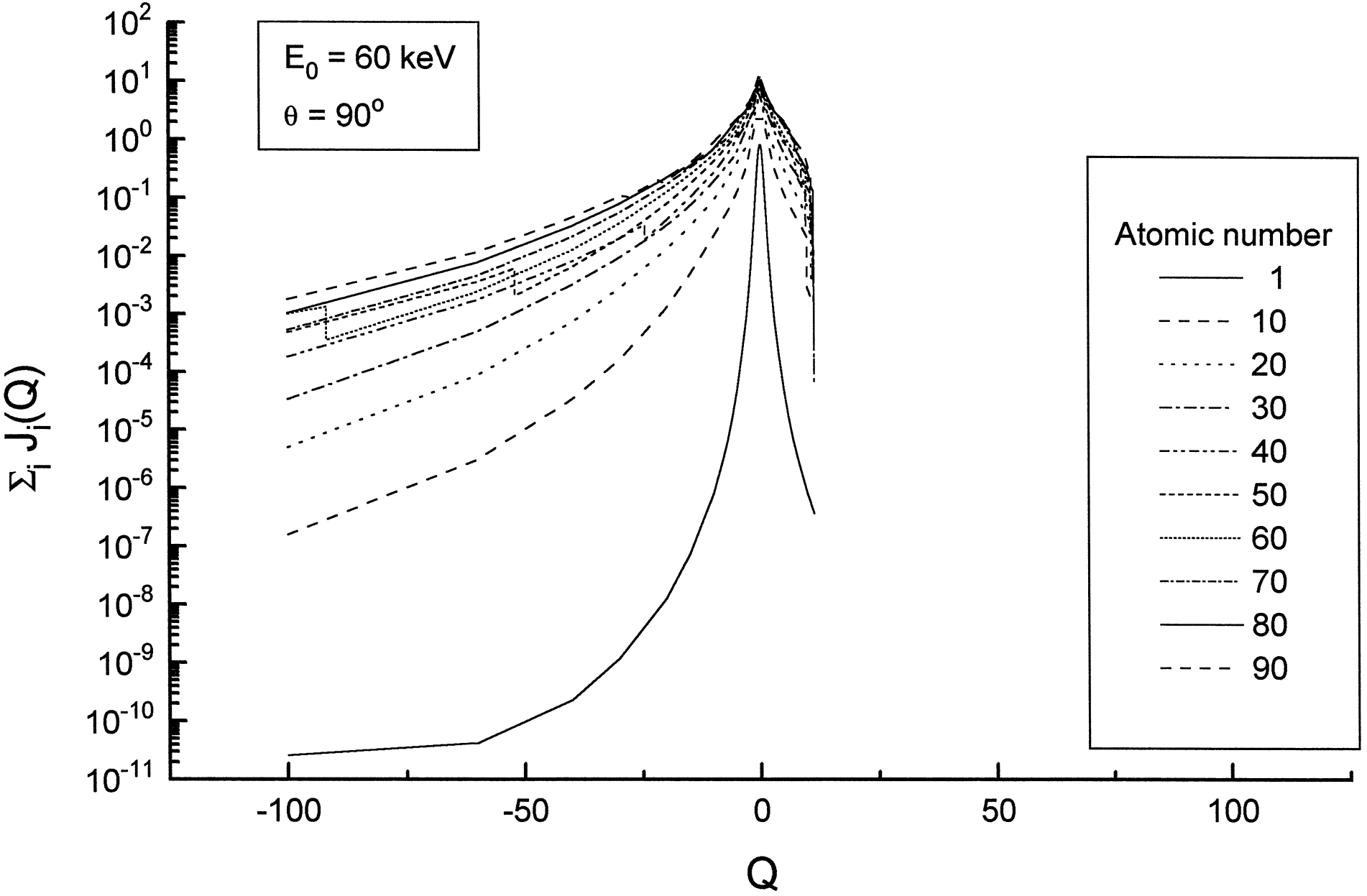
E_0 = 60 keV
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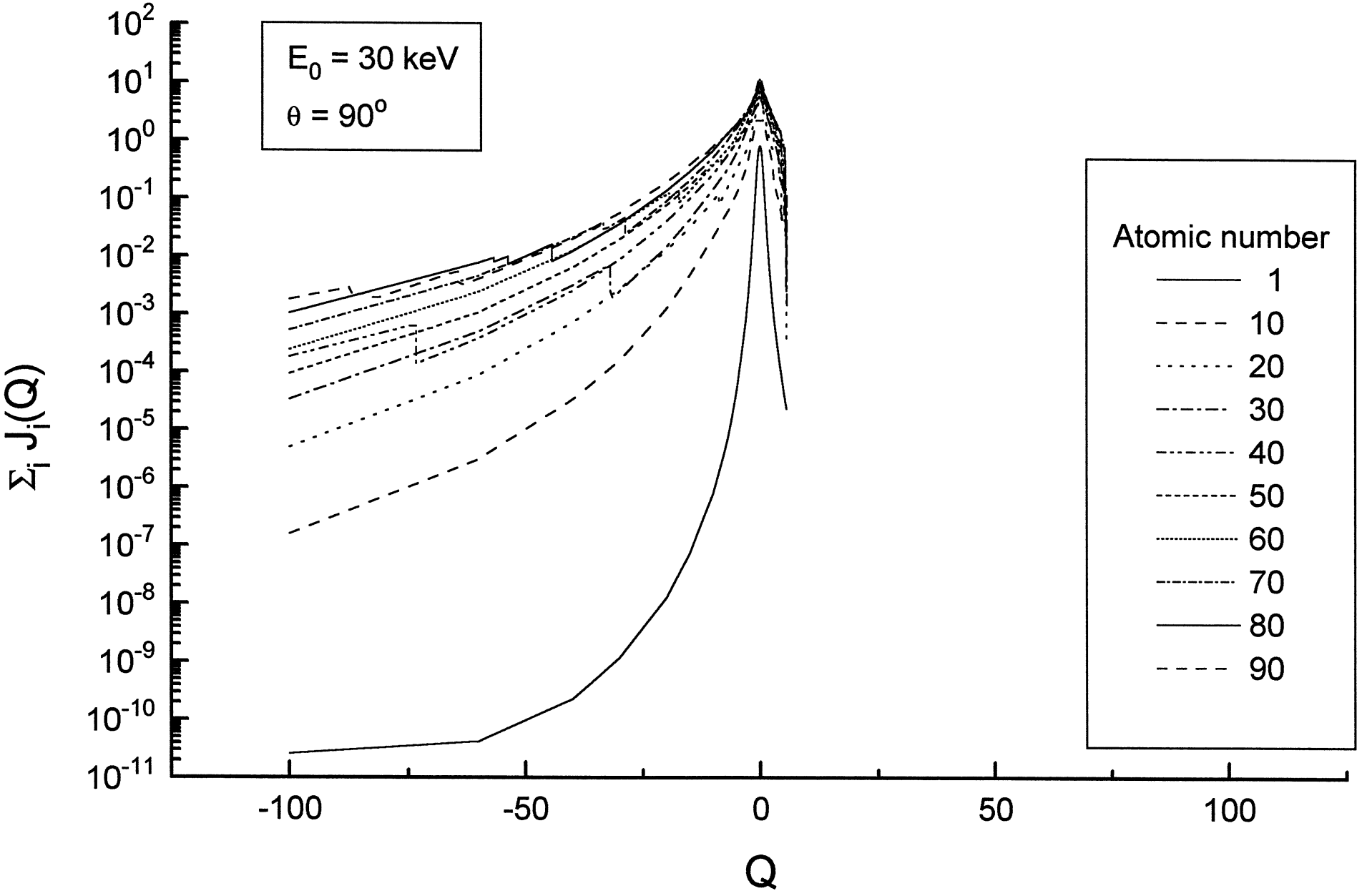
E_0 = 30 keV
θ = 90°
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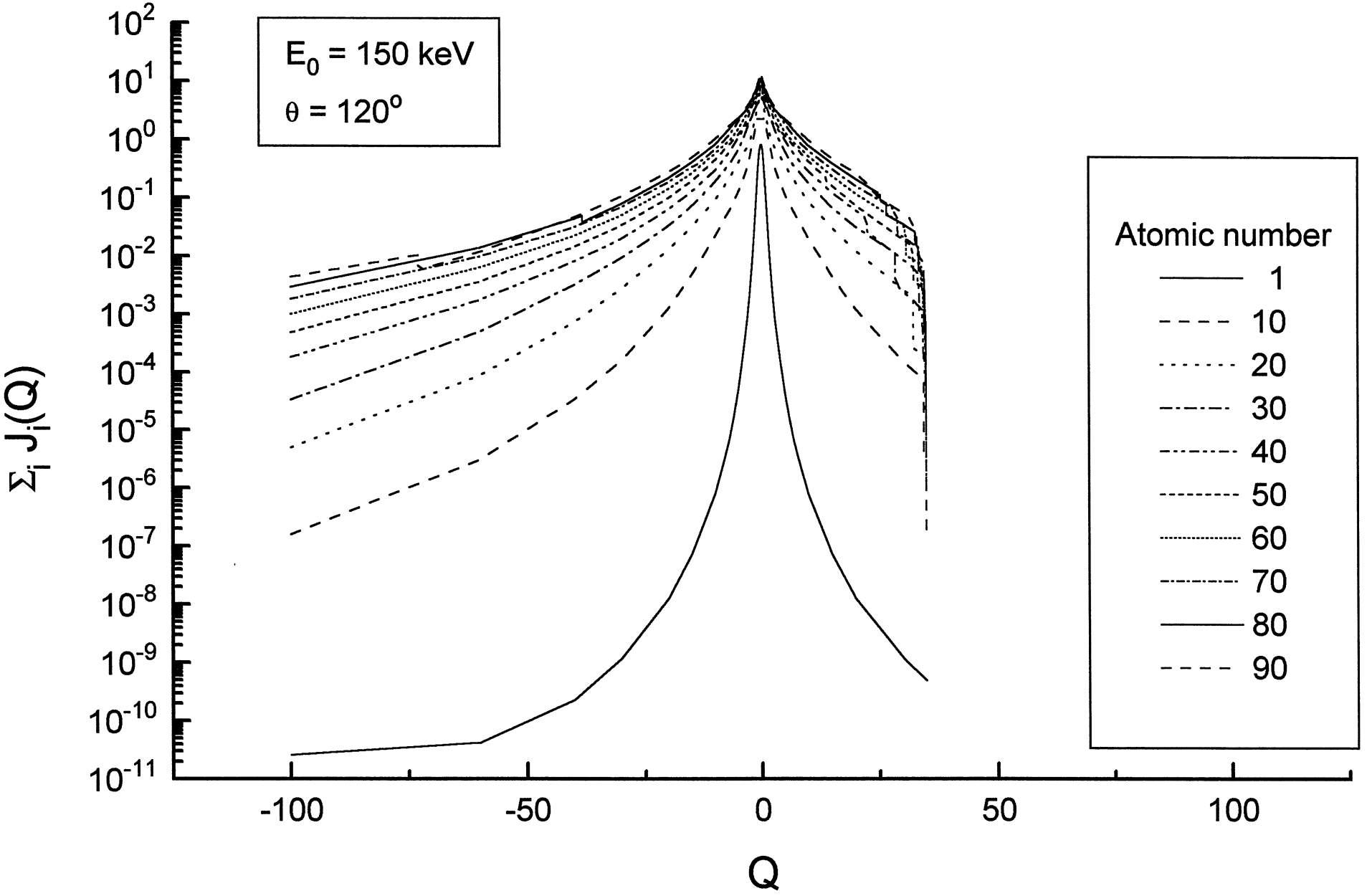
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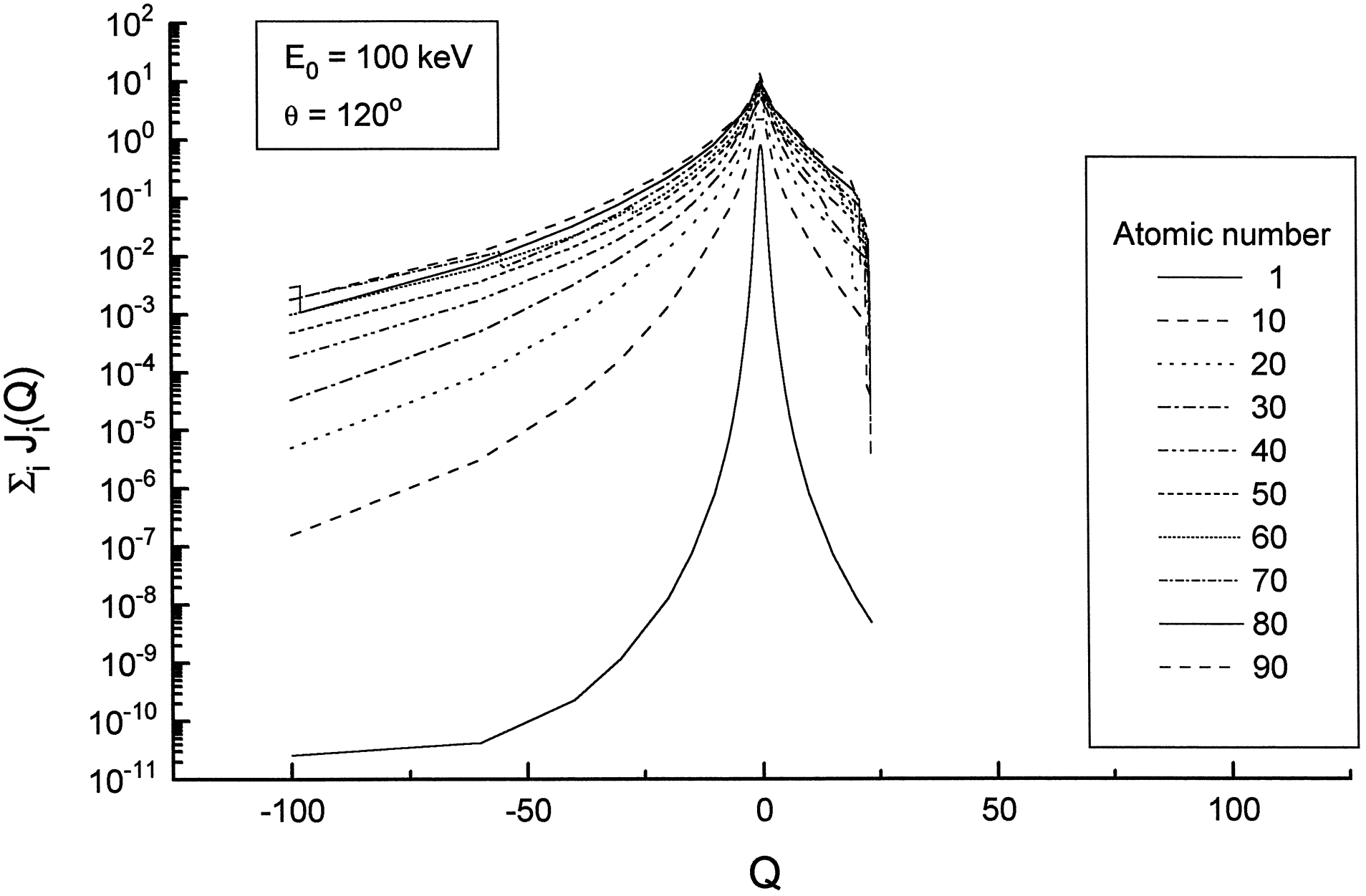
E_0 = 100 keV
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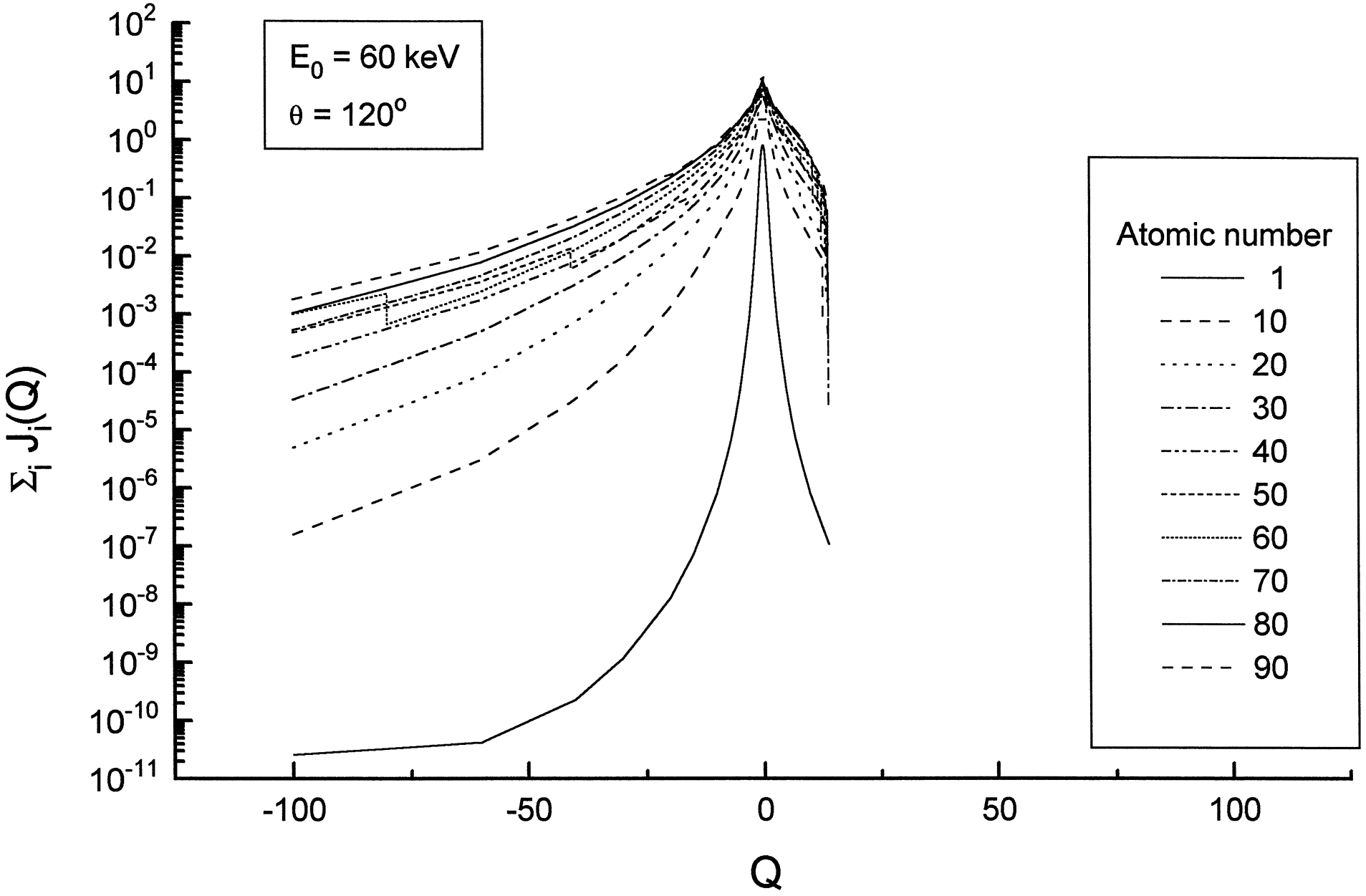
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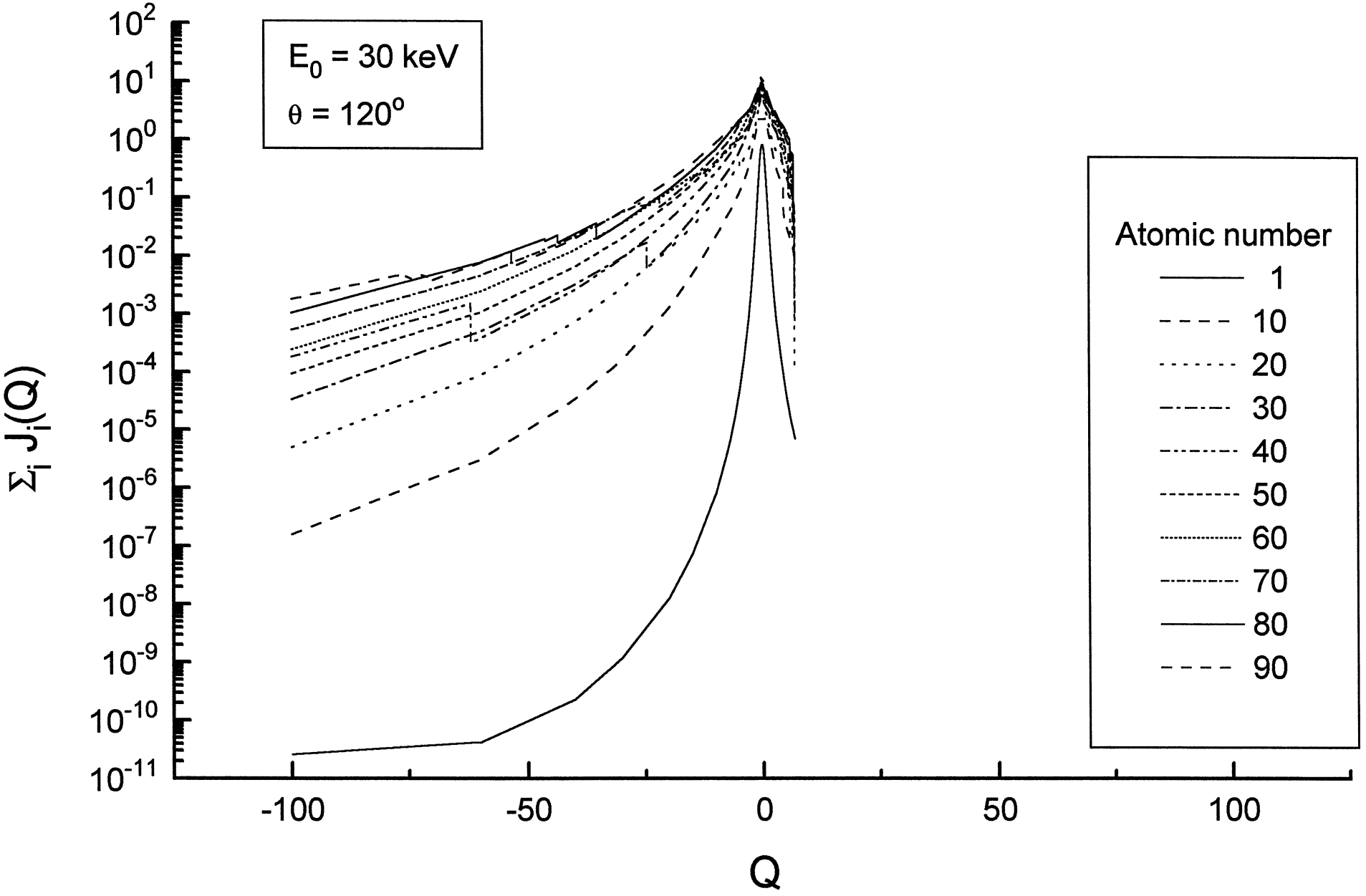
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