$ Relativistic prolapse-free Gaussian basis sets of quadruple-zeta quality: RPF-4Z

$

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$ f-block elements: T. Q. Teodoro, L. Visscher, A. B. F. da Silva, and R. L. A. Haiduke,

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$

$

a 1

$ H (Hydrogen)

$ s-type functions

8 0 0

4.406498716E+02

6.636101523E+01

1.392971613E+01

3.806525865E+00

1.264794537E+00

4.772690339E-01

1.910319536E-01

7.575227197E-02

$ p-type functions

3 0 0

3.806525865E+00

1.264794537E+00

4.772690339E-01

$ d-type functions

2 0 0

1.264794537E+00

4.772690339E-01

$ f-type functions

1 0 0

1.264794537E+00

a 2

$ He (Helium)

$ s-type functions

8 0 0

1.070160908E+03

1.816369667E+02

4.009745741E+01

1.091195927E+01

3.469587274E+00

1.221681357E+00

4.515012930E-01

1.659957021E-01

$ p-type functions

3 0 0

3.469587274E+00

1.221681357E+00

4.515012930E-01

$ d-type functions

2 0 0

3.469587274E+00

1.221681357E+00

$ f-type functions

1 0 0

3.469587274E+00

a 3

$ Li (Lithium)

$ s-type functions

14 0 0

1.395544240E+04

2.559250298E+03

5.742911768E+02

1.535679448E+02

4.765592080E+01

1.671397863E+01

6.451910321E+00

2.669568833E+00

1.153020595E+00

5.062615733E-01

2.200663508E-01

9.222993773E-02

3.629347927E-02

1.305937900E-02

$ p-type functions

8 0 0

6.451910321E+00

2.669568833E+00

1.153020595E+00

5.062615733E-01

2.200663508E-01

9.222993773E-02

3.629347927E-02

1.305937900E-02

$ d-type functions

3 0 0

5.062615733E-01

2.200663508E-01

9.222993773E-02

$ f-type functions

2 0 0

2.200663508E-01

9.222993773E-02

$ g-type functions

1 0 0

9.222993773E-02

a 4

$ Be (Beryllium)

$ s-type functions

14 0 0

2.592322398E+04

4.466184818E+03

9.665712381E+02

2.547163426E+02

7.922856412E+01

2.819584147E+01

1.112866072E+01

4.722060844E+00

2.087984916E+00

9.326238210E-01

4.078920936E-01

1.693245671E-01

6.467059123E-02

2.202835804E-02

$ p-type functions

8 0 0

1.112866072E+01

4.722060844E+00

2.087984916E+00

9.326238210E-01

4.078920936E-01

1.693245671E-01

6.467059123E-02

2.202835804E-02

$ d-type functions

3 0 0

9.326238210E-01

4.078920936E-01

1.693245671E-01

$ f-type functions

2 0 0

4.078920936E-01

1.693245671E-01

$ g-type functions

1 0 0

4.078920936E-01

a 5

$ B (Boron)

$ s-type functions

14 0 0

6.134113997E+04

1.200911743E+04

2.788380198E+03

7.525280608E+02

2.313509990E+02

7.940469679E+01

2.981915260E+01

1.200789433E+01

5.081700112E+00

2.214980887E+00

9.745359636E-01

4.241708856E-01

1.789975554E-01

7.177360550E-02

$ p-type functions

9 0 0

7.833526734E+01

1.953316458E+01

6.090838463E+00

2.254806069E+00

9.408218567E-01

4.200588497E-01

1.905267086E-01

8.334566678E-02

3.338336169E-02

$ d-type functions

3 0 0

9.745359636E-01

4.241708856E-01

1.789975554E-01

$ f-type functions

2 0 0

9.408218567E-01

4.200588497E-01

$ g-type functions

1 0 0

9.745359636E-01

a 6

$ C (Carbon)

$ s-type functions

14 0 0

8.820854459E+04

1.699873764E+04

3.920047431E+03

1.058495674E+03

3.274646663E+02

1.135721574E+02

4.320816818E+01

1.764415487E+01

7.567133099E+00

3.335123101E+00

1.478076207E+00

6.445264189E-01

2.705814623E-01

1.070097259E-01

$ p-type functions

9 0 0

1.320504565E+02

3.193206288E+01

9.801835374E+00

3.597672662E+00

1.487339650E+00

6.523991511E-01

2.860037943E-01

1.180390844E-01

4.320320382E-02

$ d-type functions

3 0 0

1.478076207E+00

6.445264189E-01

2.705814623E-01

$ f-type functions

2 0 0

1.487339650E+00

6.523991511E-01

$ g-type functions

1 0 0

1.478076207E+00

a 7

$ N (Nitrogen)

$ s-type functions

14 0 0

1.401351315E+05

2.624067184E+04

5.915478395E+03

1.569574270E+03

4.792267175E+02

1.646104514E+02

6.219007758E+01

2.526516732E+01

1.079072747E+01

4.736928316E+00

2.089539197E+00

9.055280987E-01

3.769130000E-01

1.473187948E-01

$ p-type functions

9 0 0

1.859743474E+02

4.421259099E+01

1.344192809E+01

4.909573736E+00

2.023655418E+00

8.842678572E-01

3.847951163E-01

1.566453985E-01

5.603921587E-02

$ d-type functions

3 0 0

2.089539197E+00

9.055280987E-01

3.769130000E-01

$ f-type functions

2 0 0

2.023655418E+00

8.842678572E-01

$ g-type functions

1 0 0

2.089539197E+00

a 8

$ O (Oxygen)

$ s-type functions

14 0 0

1.873430055E+05

3.509065321E+04

7.908443093E+03

2.096826726E+03

6.394882041E+02

2.193448358E+02

8.273201617E+01

3.355038877E+01

1.430295253E+01

6.267357458E+00

2.759944176E+00

1.194262049E+00

4.964881678E-01

1.938896151E-01

$ p-type functions

9 0 0

3.258352357E+02

7.860287126E+01

2.387824255E+01

8.657032665E+00

3.549912629E+00

1.560369119E+00

6.967504630E-01

2.995343169E-01

1.174936697E-01

$ d-type functions

3 0 0

2.759944176E+00

1.194262049E+00

4.964881678E-01

$ f-type functions

2 0 0

1.560369119E+00

6.967504630E-01

$ g-type functions

1 0 0

1.194262049E+00

a 9

$ F (Fluorine)

$ s-type functions

14 0 0

2.555233727E+05

4.661537654E+04

1.032345759E+04

2.709636429E+03

8.229608559E+02

2.823723015E+02

1.068641943E+02

4.355138717E+01

1.866052559E+01

8.207110892E+00

3.617376638E+00

1.560007202E+00

6.426601502E-01

2.469167094E-01

$ p-type functions

9 0 0

4.237660227E+02

1.076258801E+02

3.320498487E+01

1.190615440E+01

4.746866855E+00

2.013240100E+00

8.690059309E-01

3.652365399E-01

1.429998806E-01

$ d-type functions

3 0 0

3.617376638E+00

1.560007202E+00

6.426601502E-01

$ f-type functions

2 0 0

2.013240100E+00

8.690059309E-01

$ g-type functions

1 0 0

1.560007202E+00

a 10

$ Ne (Neon)

$ s-type functions

14 0 0

3.304419405E+05

6.073887148E+04

1.348906295E+04

3.536576189E+03

1.069579563E+03

3.645983333E+02

1.368769862E+02

5.529718546E+01

2.348957307E+01

1.025154659E+01

4.491469876E+00

1.930256814E+00

7.950818958E-01

3.067054323E-01

$ p-type functions

9 0 0

5.189110622E+02

1.326904158E+02

4.125911242E+01

1.490360466E+01

5.974633793E+00

2.539435597E+00

1.093267587E+00

4.554456020E-01

1.753980410E-01

$ d-type functions

3 0 0

4.491469876E+00

1.930256814E+00

7.950818958E-01

$ f-type functions

2 0 0

2.539435597E+00

1.093267587E+00

$ g-type functions

1 0 0

1.930256814E+00

a 11

$ Na (Sodium)

$ s-type functions

18 0 0

9.043548154E+05

1.639818742E+05

3.545358381E+04

8.977015057E+03

2.614637520E+03

8.603971384E+02

3.141915985E+02

1.250542711E+02

5.328574608E+01

2.387439317E+01

1.104746440E+01

5.185636456E+00

2.425218762E+00

1.109965236E+00

4.882897963E-01

2.027943936E-01

7.809882000E-02

2.739324245E-02

$ p-type functions

11 0 0

6.831690212E+02

1.599059339E+02

4.805891231E+01

1.745660153E+01

7.213156019E+00

3.191348865E+00

1.423016805E+00

6.019161957E-01

2.273294727E-01

7.215600963E-02

1.811711869E-02

$ d-type functions

3 0 0

4.882897963E-01

2.027943936E-01

7.809882000E-02

$ f-type functions

2 0 0

2.273294727E-01

7.215600963E-02

$ g-type functions

1 0 0

7.809882000E-02

a 12

$ Mg (Magnesium)

$ s-type functions

18 0 0

1.133047393E+06

2.092484084E+05

4.577626972E+04

1.166347144E+04

3.403059182E+03

1.117919316E+03

4.065329498E+02

1.609053265E+02

6.815214285E+01

3.037162862E+01

1.400171272E+01

6.565439559E+00

3.078655265E+00

1.419443040E+00

6.326734047E-01

2.680346462E-01

1.061199614E-01

3.860495681E-02

$ p-type functions

11 0 0

9.961517770E+02

2.461311345E+02

7.500780754E+01

2.691304102E+01

1.085307903E+01

4.695637400E+00

2.080678800E+00

9.013675903E-01

3.644204564E-01

1.312577561E-01

4.020556115E-02

$ d-type functions

3 0 0

6.326734047E-01

2.680346462E-01

1.061199614E-01

$ f-type functions

2 0 0

3.644204564E-01

1.312577561E-01

$ g-type functions

1 0 0

2.680346462E-01

a 13

$ Al (Aluminium)

$ s-type functions

18 0 0

1.508491365E+06

2.907088879E+05

6.546164074E+04

1.696583787E+04

4.985059449E+03

1.635756778E+03

5.904283831E+02

2.309205537E+02

9.639434861E+01

4.230395085E+01

1.922637514E+01

8.913489892E+00

4.152204892E+00

1.914419743E+00

8.605372931E-01

3.714694688E-01

1.516855479E-01

5.771380254E-02

$ p-type functions

13 0 0

2.392158852E+03

6.102448199E+02

1.856099736E+02

6.541840254E+01

2.596679062E+01

1.128170215E+01

5.214195289E+00

2.491578429E+00

1.196340306E+00

5.609783590E-01

2.496703544E-01

1.025027795E-01

3.772857455E-02

$ d-type functions

3 0 0

3.714694688E-01

1.516855479E-01

5.771380254E-02

$ f-type functions

2 0 0

5.609783590E-01

2.496703544E-01

$ g-type functions

1 0 0

3.714694688E-01

a 14

$ Si (Silicon)

$ s-type functions

18 0 0

2.198070137E+06

4.140071972E+05

9.148390725E+04

2.335338346E+04

6.781426055E+03

2.205749493E+03

7.913217553E+02

3.083256150E+02

1.284764456E+02

5.637579098E+01

2.565162221E+01

1.191757507E+01

5.566851736E+00

2.574411301E+00

1.160621348E+00

5.022793711E-01

2.054660716E-01

7.822988729E-02

$ p-type functions

13 0 0

2.946762025E+03

7.186607004E+02

2.127286194E+02

7.408913388E+01

2.943154513E+01

1.292721388E+01

6.086021892E+00

2.977159949E+00

1.466946534E+00

7.057863265E-01

3.214270411E-01

1.343213887E-01

4.993038409E-02

$ d-type functions

3 0 0

5.022793711E-01

2.054660716E-01

7.822988729E-02

$ f-type functions

2 0 0

7.057863265E-01

3.214270411E-01

$ g-type functions

1 0 0

5.022793711E-01

a 15

$ P (Phosphorus)

$ s-type functions

18 0 0

3.012000519E+06

5.205900218E+05

1.077827623E+05

2.626653106E+04

7.403606729E+03

2.371692830E+03

8.484676466E+02

3.330896577E+02

1.410013575E+02

6.324249455E+01

2.953286033E+01

1.410912629E+01

6.776104396E+00

3.214642506E+00

1.480284436E+00

6.501369167E-01

2.676078902E-01

1.014412757E-01

$ p-type functions

13 0 0

3.304909198E+03

8.697861010E+02

2.692129424E+02

9.555093579E+01

3.791879190E+01

1.640512622E+01

7.544582215E+00

3.596220805E+00

1.732359557E+00

8.223094017E-01

3.750274063E-01

1.602309056E-01

6.253311991E-02

$ d-type functions

3 0 0

6.501369167E-01

2.676078902E-01

1.014412757E-01

$ f-type functions

2 0 0

8.223094017E-01

3.750274063E-01

$ g-type functions

1 0 0

6.501369167E-01

a 16

$ S (Sulfur)

$ s-type functions

18 0 0

3.901872133E+06

6.788238906E+05

1.407802211E+05

3.422456333E+04

9.590853233E+03

3.046568451E+03

1.078723923E+03

4.186650078E+02

1.751424053E+02

7.765967293E+01

3.589142609E+01

1.700153334E+01

8.117064484E+00

3.840915366E+00

1.771359150E+00

7.829354670E-01

3.261400044E-01

1.259076884E-01

$ p-type functions

13 0 0

4.498593800E+03

1.135017372E+03

3.408587880E+02

1.185739666E+02

4.649900658E+01

2.000479394E+01

9.188765715E+00

4.385403624E+00

2.116351828E+00

1.005052331E+00

4.570972433E-01

1.937511351E-01

7.448901695E-02

$ d-type functions

3 0 0

7.829354670E-01

3.261400044E-01

1.259076884E-01

$ f-type functions

2 0 0

1.005052331E+00

4.570972433E-01

$ g-type functions

1 0 0

7.829354670E-01

a 17

$ Cl (Chlorine)

$ s-type functions

18 0 0

3.773813358E+06

7.062520751E+05

1.546880727E+05

3.907454691E+04

1.121742987E+04

3.606428477E+03

1.279581910E+03

4.937281914E+02

2.041545600E+02

8.914640362E+01

4.050833683E+01

1.887570142E+01

8.887961105E+00

4.167386790E+00

1.917389540E+00

8.530294661E-01

3.616155587E-01

1.439401121E-01

$ p-type functions

13 0 0

5.437199854E+03

1.341039060E+03

3.971626299E+02

1.373100290E+02

5.387523555E+01

2.332250840E+01

1.082945494E+01

5.243597096E+00

2.573887239E+00

1.245183385E+00

5.771740891E-01

2.492046580E-01

9.743778804E-02

$ d-type functions

3 0 0

1.917389540E+00

8.530294661E-01

3.616155587E-01

$ f-type functions

2 0 0

1.245183385E+00

5.771740891E-01

$ g-type functions

1 0 0

8.530294661E-01

a 18

$ Ar (Argon)

$ s-type functions

18 0 0

4.892715338E+06

8.356017747E+05

1.714726270E+05

4.153824066E+04

1.167000522E+04

3.735729864E+03

1.338668813E+03

5.275649100E+02

2.246443694E+02

1.015415668E+02

4.786661050E+01

2.311925259E+01

1.124032865E+01

5.404557487E+00

2.524811674E+00

1.125893631E+00

4.708440270E-01

1.814178037E-01

$ p-type functions

13 0 0

5.945445814E+03

1.486551983E+03

4.445856390E+02

1.546984168E+02

6.091817359E+01

2.640668595E+01

1.225638527E+01

5.924720148E+00

2.901387045E+00

1.400075122E+00

6.475604412E-01

2.792338335E-01

1.091917884E-01

$ d-type functions

3 0 0

2.524811674E+00

1.125893631E+00

4.708440270E-01

$ f-type functions

2 0 0

1.400075122E+00

6.475604412E-01

$ g-type functions

1 0 0

1.125893631E+00

a 19

$ K (Potassium)

$ s-type functions

21 0 0

7.637240356E+06

1.526038293E+06

3.495680665E+05

9.072231089E+04

2.636277785E+04

8.476989267E+03

2.980877831E+03

1.132863241E+03

4.598542871E+02

1.970385145E+02

8.807422351E+01

4.058747349E+01

1.905721321E+01

9.010100407E+00

4.239175679E+00

1.961523106E+00

8.821538921E-01

3.810771220E-01

1.562707432E-01

6.011978808E-02

2.144424942E-02

$ p-type functions

15 0 0

7.444708484E+03

1.853667521E+03

5.515745035E+02

1.908415772E+02

7.470446460E+01

3.219090139E+01

1.485733827E+01

7.146254066E+00

3.485408888E+00

1.677162453E+00

7.747309688E-01

3.342638142E-01

1.310686266E-01

4.544512922E-02

1.355699452E-02

$ d-type functions

7 0 0

4.239175679E+00

1.961523106E+00

8.821538921E-01

3.810771220E-01

1.562707432E-01

6.011978808E-02

2.144424942E-02

$ f-type functions

3 0 0

3.342638142E-01

1.310686266E-01

4.544512922E-02

$ g-type functions

1 0 0

6.011978808E-02

a 20

$ Ca (Calcium)

$ s-type functions

21 0 0

1.067361002E+07

1.961135964E+06

4.194259900E+05

1.030759745E+05

2.873540040E+04

8.970940255E+03

3.096155748E+03

1.166205198E+03

4.732577134E+02

2.042651132E+02

9.256944985E+01

4.348318700E+01

2.090058626E+01

1.014804072E+01

4.913554546E+00

2.342083773E+00

1.084939065E+00

4.821784128E-01

2.029611377E-01

7.987740350E-02

2.901644015E-02

$ p-type functions

15 0 0

9.872550466E+03

2.389227675E+03

6.960528282E+02

2.374438434E+02

9.225527827E+01

3.971098732E+01

1.842030650E+01

8.956272083E+00

4.439964701E+00

2.182886334E+00

1.035284343E+00

4.607259169E-01

1.871361396E-01

6.748111797E-02

2.101328763E-02

$ d-type functions

7 0 0

4.913554546E+00

2.342083773E+00

1.084939065E+00

4.821784128E-01

2.029611377E-01

7.987740350E-02

2.901644015E-02

$ f-type functions

3 0 0

4.607259169E-01

1.871361396E-01

6.748111797E-02

$ g-type functions

1 0 0

2.029611377E-01

a 21

$ Sc (Scandium)

$ s-type functions

21 0 0

1.361791008E+07

2.556275465E+06

5.551291390E+05

1.377531063E+05

3.857994491E+04

1.204499023E+04

4.140642817E+03

1.548022877E+03

6.216802785E+02

2.648919364E+02

1.182807687E+02

5.466824254E+01

2.583232416E+01

1.232625272E+01

5.866373238E+00

2.750496982E+00

1.254837055E+00

5.502119240E-01

2.290187203E-01

8.938036276E-02

3.230540627E-02

$ p-type functions

15 0 0

1.240018858E+04

3.010337959E+03

8.765356301E+02

2.979657625E+02

1.151014362E+02

4.917992071E+01

2.262365275E+01

1.090637849E+01

5.363106943E+00

2.618457438E+00

1.235500334E+00

5.483825387E-01

2.228655224E-01

8.072272112E-02

2.536398286E-02

$ d-type functions

11 0 0

2.071459179E+02

5.540004700E+01

1.829724487E+01

7.112337932E+00

3.100983718E+00

1.445294371E+00

6.862654930E-01

3.163853328E-01

1.349702816E-01

5.077698400E-02

1.605505832E-02

$ f-type functions

3 0 0

1.235500334E+00

5.483825387E-01

2.228655224E-01

$ g-type functions

2 0 0

3.163853328E-01

1.349702816E-01

$ h-type functions

1 0 0

5.483825387E-01

a 22

$ Ti (Titanium)

$ s-type functions

21 0 0

1.302524683E+07

2.525880018E+06

5.645888088E+05

1.436945932E+05

4.113703856E+04

1.308596865E+04

4.569353983E+03

1.730117619E+03

7.017205122E+02

3.011731514E+02

1.351225070E+02

6.260288035E+01

2.958774982E+01

1.409212160E+01

6.681646098E+00

3.115509066E+00

1.411265920E+00

6.135059712E-01

2.528451688E-01

9.759156274E-02

3.484876988E-02

$ p-type functions

15 0 0

1.535788547E+04

3.507922979E+03

9.810760917E+02

3.259387686E+02

1.247948607E+02

5.342338463E+01

2.480771611E+01

1.212298366E+01

6.048480364E+00

2.989122518E+00

1.419542861E+00

6.285029537E-01

2.516904992E-01

8.844507901E-02

2.645906822E-02

$ d-type functions

11 0 0

2.244215807E+02

6.640364786E+01

2.326283217E+01

9.271507192E+00

4.039512601E+00

1.848724702E+00

8.539922777E-01

3.826025312E-01

1.597451581E-01

5.972653374E-02

1.921500202E-02

$ f-type functions

3 0 0

1.419542861E+00

6.285029537E-01

2.516904992E-01

$ g-type functions

2 0 0

8.539922777E-01

3.826025312E-01

$ h-type functions

1 0 0

6.285029537E-01

a 23

$ V (Vanadium)

$ s-type functions

21 0 0

1.402990488E+07

2.752073598E+06

6.196134971E+05

1.582486835E+05

4.531277461E+04

1.437690565E+04

4.995480969E+03

1.878707708E+03

7.558124667E+02

3.214731553E+02

1.428742968E+02

6.557603176E+01

3.071996354E+01

1.451722804E+01

6.839699859E+00

3.175291751E+00

1.435576612E+00

6.246951934E-01

2.585901086E-01

1.006376552E-01

3.639291726E-02

$ p-type functions

15 0 0

1.756100190E+04

4.007694684E+03

1.117964263E+03

3.700293487E+02

1.410608132E+02

6.012091214E+01

2.780870137E+01

1.355060948E+01

6.752225347E+00

3.339888805E+00

1.591846085E+00

7.096449700E-01

2.872362032E-01

1.024665758E-01

3.127211618E-02

$ d-type functions

11 0 0

2.406270350E+02

7.257124067E+01

2.640954068E+01

1.109004373E+01

5.139036698E+00

2.513079153E+00

1.240242310E+00

5.907215086E-01

2.596778040E-01

1.007540746E-01

3.299636427E-02

$ f-type functions

3 0 0

1.591846085E+00

7.096449700E-01

2.872362032E-01

$ g-type functions

2 0 0

1.240242310E+00

5.907215086E-01

$ h-type functions

1 0 0

7.096449700E-01

a 24

$ Cr (Chromium)

$ s-type functions

21 0 0

1.802630064E+07

3.394959134E+06

7.393705842E+05

1.838857269E+05

5.157635753E+04

1.611122891E+04

5.535292580E+03

2.065594014E+03

8.267998368E+02

3.505624441E+02

1.554885964E+02

7.124565879E+01

3.330454751E+01

1.568528792E+01

7.349940748E+00

3.384044972E+00

1.511847262E+00

6.472287087E-01

2.622069808E-01

9.927180269E-02

3.468656607E-02

$ p-type functions

15 0 0

1.960747797E+04

4.598427188E+03

1.304135080E+03

4.348087610E+02

1.656811891E+02

7.014295992E+01

3.207507680E+01

1.540142174E+01

7.549186872E+00

3.672168102E+00

1.723315160E+00

7.585136517E-01

3.044075325E-01

1.082872811E-01

3.319451497E-02

$ d-type functions

11 0 0

2.075082306E+02

6.325426617E+01

2.308175730E+01

9.645567899E+00

4.415927640E+00

2.118881346E+00

1.019382562E+00

4.704017897E-01

1.991852906E-01

7.403846807E-02

2.311132141E-02

$ f-type functions

3 0 0

1.723315160E+00

7.585136517E-01

3.044075325E-01

$ g-type functions

2 0 0

1.019382562E+00

4.704017897E-01

$ h-type functions

1 0 0

7.585136517E-01

a 25

$ Mn (Manganese)

$ s-type functions

21 0 0

1.890813226E+07

3.508658563E+06

7.558645040E+05

1.866366050E+05

5.214820905E+04

1.627838562E+04

5.604699003E+03

2.101367198E+03

8.470322798E+02

3.623981710E+02

1.624799293E+02

7.536692553E+01

3.570827708E+01

1.706096834E+01

8.115677995E+00

3.794651985E+00

1.721808219E+00

7.485192024E-01

3.077982356E-01

1.181990487E-01

4.184910526E-02

$ p-type functions

15 0 0

2.640361549E+04

5.979786067E+03

1.645393078E+03

5.347202165E+02

1.995113505E+02

8.308140382E+01

3.753586296E+01

1.788572265E+01

8.737661868E+00

4.254257562E+00

2.006796222E+00

8.915482823E-01

3.626266393E-01

1.312680200E-01

4.111058941E-02

$ d-type functions

11 0 0

2.444807265E+02

7.586102116E+01

2.814111223E+01

1.192503244E+01

5.515956573E+00

2.661167960E+00

1.279561406E+00

5.859149762E-01

2.441405426E-01

8.845538415E-02

2.662777765E-02

$ f-type functions

3 0 0

2.006796222E+00

8.915482823E-01

3.626266393E-01

$ g-type functions

2 0 0

1.279561406E+00

5.859149762E-01

$ h-type functions

1 0 0

8.915482823E-01

a 26

$ Fe (Iron)

$ s-type functions

21 0 0

2.023710697E+07

3.765837627E+06

8.124714734E+05

2.006738490E+05

5.602892995E+04

1.746125782E+04

5.997677791E+03

2.242011863E+03

9.006221243E+02

3.838839961E+02

1.714402744E+02

7.921071080E+01

3.738659720E+01

1.779965969E+01

8.440612276E+00

3.936456492E+00

1.782826057E+00

7.742607841E-01

3.183780267E-01

1.223993761E-01

4.344085610E-02

$ p-type functions

15 0 0

2.828520028E+04

6.195586774E+03

1.674435613E+03

5.411784202E+02

2.027317113E+02

8.531694325E+01

3.909349157E+01

1.890394278E+01

9.349799015E+00

4.584344982E+00

2.159735819E+00

9.475354796E-01

3.752191784E-01

1.299847673E-01

3.818044334E-02

$ d-type functions

11 0 0

3.194775408E+02

9.778159372E+01

3.573014347E+01

1.493886511E+01

6.849359735E+00

3.300473109E+00

1.601919176E+00

7.505636161E-01

3.253578201E-01

1.250564662E-01

4.084759989E-02

$ f-type functions

3 0 0

2.159735819E+00

9.475354796E-01

3.752191784E-01

$ g-type functions

2 0 0

1.601919176E+00

7.505636161E-01

$ h-type functions

1 0 0

9.475354796E-01

a 27

$ Co (Cobalt)

$ s-type functions

21 0 0

2.139520176E+07

4.072861967E+06

8.948812373E+05

2.241616308E+05

6.323173161E+04

1.983967504E+04

6.839234171E+03

2.558595268E+03

1.026040889E+03

4.356567632E+02

1.934589060E+02

8.874527273E+01

4.153954369E+01

1.959683634E+01

9.203769200E+00

4.250585356E+00

1.906701863E+00

8.205699827E-01

3.346532180E-01

1.277522883E-01

4.509043578E-02

$ p-type functions

15 0 0

3.203769680E+04

6.845355291E+03

1.822402477E+03

5.849759246E+02

2.190830997E+02

9.263790963E+01

4.279661287E+01

2.090271158E+01

1.044480251E+01

5.166947023E+00

2.448700965E+00

1.075814170E+00

4.240043663E-01

1.450663736E-01

4.169253806E-02

$ d-type functions

11 0 0

3.628838287E+02

1.083900092E+02

3.921064543E+01

1.640871582E+01

7.586890666E+00

3.701983265E+00

1.820745459E+00

8.621263972E-01

3.753724008E-01

1.435443773E-01

4.604741453E-02

$ f-type functions

3 0 0

2.448700965E+00

1.075814170E+00

4.240043663E-01

$ g-type functions

2 0 0

1.820745459E+00

8.621263972E-01

$ h-type functions

1 0 0

1.075814170E+00

a 28

$ Ni (Nickel)

$ s-type functions

21 0 0

2.059279954E+07

3.939334363E+06

8.678259261E+05

2.175431144E+05

6.131427963E+04

1.919915468E+04

6.599444725E+03

2.460583550E+03

9.832747599E+02

4.161197628E+02

1.842761335E+02

8.437771492E+01

3.947253059E+01

1.864109172E+01

8.781273462E+00

4.077125383E+00

1.843578614E+00

8.021967646E-01

3.319039515E-01

1.290199395E-01

4.656019181E-02

$ p-type functions

15 0 0

3.571255933E+04

7.736220974E+03

2.071601623E+03

6.646523954E+02

2.476482890E+02

1.038651818E+02

4.752695668E+01

2.299783020E+01

1.140649010E+01

5.620526121E+00

2.666878078E+00

1.181060299E+00

4.731786813E-01

1.662279036E-01

4.963063319E-02

$ d-type functions

11 0 0

4.325647814E+02

1.295554220E+02

4.650796008E+01

1.917448069E+01

8.699652636E+00

4.162167525E+00

2.012027458E+00

9.416777586E-01

4.088670813E-01

1.578086348E-01

5.188066372E-02

$ f-type functions

3 0 0

2.666878078E+00

1.181060299E+00

4.731786813E-01

$ g-type functions

2 0 0

2.012027458E+00

9.416777586E-01

$ h-type functions

1 0 0

1.181060299E+00

a 29

$ Cu (Copper)

$ s-type functions

21 0 0

2.181663277E+07

4.160661003E+06

9.158663753E+05

2.298271819E+05

6.493434833E+04

2.040120038E+04

7.039623302E+03

2.634874324E+03

1.056553518E+03

4.482791378E+02

1.987628938E+02

9.096119828E+01

4.243414308E+01

1.993046468E+01

9.308216164E+00

4.269400208E+00

1.899428574E+00

8.095414384E-01

3.264521557E-01

1.230179995E-01

4.278492406E-02

$ p-type functions

15 0 0

3.903931661E+04

8.698937845E+03

2.366106282E+03

7.630176900E+02

2.833320087E+02

1.176645633E+02

5.307782098E+01

2.525958274E+01

1.231723665E+01

5.977268485E+00

2.803644498E+00

1.234531470E+00

4.956427569E-01

1.762183290E-01

5.388618620E-02

$ d-type functions

11 0 0

3.994522561E+02

1.260461873E+02

4.662475556E+01

1.942274783E+01

8.753812800E+00

4.100733516E+00

1.918177447E+00

8.607245350E-01

3.559368766E-01

1.303168031E-01

4.058183774E-02

$ f-type functions

3 0 0

2.803644498E+00

1.234531470E+00

4.956427569E-01

$ g-type functions

2 0 0

1.918177447E+00

8.607245350E-01

$ h-type functions

1 0 0

1.234531470E+00

a 30

$ Zn (Zinc)

$ s-type functions

21 0 0

2.459936417E+07

4.698958100E+06

1.036001816E+06

2.603893756E+05

7.369064339E+04

2.319264747E+04

8.017883484E+03

3.007205701E+03

1.208601303E+03

5.140934283E+02

2.285928615E+02

1.049463743E+02

4.913363816E+01

2.316966002E+01

1.086956588E+01

5.010477104E+00

2.241521225E+00

9.612272309E-01

3.902574992E-01

1.481634138E-01

5.195385376E-02

$ p-type functions

15 0 0

4.717383569E+04

1.002957946E+04

2.645049372E+03

8.383017278E+02

3.093345654E+02

1.287549830E+02

5.856702145E+01

2.820601415E+01

1.393399929E+01

6.840712277E+00

3.233436472E+00

1.425643053E+00

5.680502114E-01

1.981700851E-01

5.864228788E-02

$ d-type functions

11 0 0

4.896090922E+02

1.506536280E+02

5.524649362E+01

2.313584152E+01

1.060185332E+01

5.093949595E+00

2.459032731E+00

1.142802660E+00

4.899320994E-01

1.856601591E-01

5.959093042E-02

$ f-type functions

3 0 0

3.233436472E+00

1.425643053E+00

5.680502114E-01

$ g-type functions

2 0 0

2.459032731E+00

1.142802660E+00

$ h-type functions

1 0 0

1.425643053E+00

a 31

$ Ga (Gallium)

$ s-type functions

21 0 0

2.985493181E+07

5.676531350E+06

1.247892213E+06

3.132442921E+05

8.867195738E+04

2.795576897E+04

9.694459234E+03

3.651974309E+03

1.475940323E+03

6.320214562E+02

2.832055542E+02

1.311485857E+02

6.198724536E+01

2.953268441E+01

1.400716852E+01

6.531750766E+00

2.957506166E+00

1.284172885E+00

5.280901849E-01

2.031254964E-01

7.217345702E-02

$ p-type functions

17 0 0

8.866794085E+04

2.207419386E+04

6.359554354E+03

2.083419469E+03

7.626399619E+02

3.065065821E+02

1.328991064E+02

6.108729953E+01

2.924899880E+01

1.433464349E+01

7.065830310E+00

3.442108276E+00

1.628378915E+00

7.350902013E-01

3.111462844E-01

1.213422458E-01

4.284177573E-02

$ d-type functions

11 0 0

5.470614554E+02

1.785375907E+02

6.714412694E+01

2.817080571E+01

1.276531244E+01

6.048290480E+00

2.900887663E+00

1.363497443E+00

6.080383309E-01

2.490513328E-01

9.071020141E-02

$ f-type functions

2 0 0

3.111462844E-01

1.213422458E-01

$ g-type functions

1 0 0

2.490513328E-01

a 32

$ Ge (Germanium)

$ s-type functions

21 0 0

3.189771503E+07

6.004914335E+06

1.311382250E+06

3.280234043E+05

9.279214430E+04

2.931070349E+04

1.020769602E+04

3.869844136E+03

1.576889568E+03

6.819129708E+02

3.089970197E+02

1.448622083E+02

6.937598886E+01

3.351153716E+01

1.612086692E+01

7.625513961E+00

3.501985435E+00

1.541706988E+00

6.424057806E-01

2.501583112E-01

8.988684405E-02

$ p-type functions

17 0 0

1.107106102E+05

2.707053178E+04

7.670244705E+03

2.475222597E+03

8.941278692E+02

3.553473254E+02

1.527081580E+02

6.974529486E+01

3.327352393E+01

1.629677277E+01

8.053989683E+00

3.947434160E+00

1.885822478E+00

8.630908798E-01

3.719373336E-01

1.483297502E-01

5.380463915E-02

$ d-type functions

11 0 0

6.209042224E+02

2.032514375E+02

7.685666788E+01

3.249060810E+01

1.486113361E+01

7.117923198E+00

3.455026360E+00

1.644885189E+00

7.433535527E-01

3.086173287E-01

1.139199271E-01

$ f-type functions

2 0 0

3.719373336E-01

1.483297502E-01

$ g-type functions

1 0 0

3.086173287E-01

a 33

$ As (Arsenic)

$ s-type functions

21 0 0

3.670050657E+07

7.096475829E+06

1.577357540E+06

3.983659049E+05

1.129917201E+05

3.557716761E+04

1.229148224E+04

4.605673332E+03

1.850060103E+03

7.874631209E+02

3.510541707E+02

1.620188050E+02

7.651594282E+01

3.654950605E+01

1.745428272E+01

8.236852018E+00

3.796707424E+00

1.689613835E+00

7.175465616E-01

2.874371317E-01

1.073528683E-01

$ p-type functions

17 0 0

1.331081188E+05

3.199940702E+04

8.926607652E+03

2.840645374E+03

1.013707303E+03

3.987971425E+02

1.700256068E+02

7.722864010E+01

3.673864422E+01

1.799398989E+01

8.920112952E+00

4.399777304E+00

2.122694145E+00

9.847351935E-01

4.318229631E-01

1.759645440E-01

6.550232125E-02

$ d-type functions

11 0 0

7.360628185E+02

2.341676268E+02

8.756895589E+01

3.711567484E+01

1.719178430E+01

8.390995314E+00

4.161093417E+00

2.021507912E+00

9.276623855E-01

3.877247292E-01

1.423143316E-01

$ f-type functions

2 0 0

4.318229631E-01

1.759645440E-01

$ g-type functions

1 0 0

3.877247292E-01

a 34

$ Se (Selenium)

$ s-type functions

21 0 0

3.505498077E+07

6.911812576E+06

1.562750843E+06

4.005891628E+05

1.151002888E+05

3.665029629E+04

1.278670139E+04

4.832541699E+03

1.956072050E+03

8.383827473E+02

3.761873280E+02

1.747134876E+02

8.303577479E+01

3.992792004E+01

1.920511288E+01

9.135700861E+00

4.249206169E+00

1.910604337E+00

8.210825748E-01

3.334357248E-01

1.265035568E-01

$ p-type functions

17 0 0

1.684153265E+05

3.914202578E+04

1.061710502E+04

3.302907986E+03

1.158085983E+03

4.497441502E+02

1.901065366E+02

8.595315161E+01

4.084944968E+01

2.005380023E+01

9.993546744E+00

4.967999257E+00

2.421077695E+00

1.136652422E+00

5.052017053E-01

2.089038891E-01

7.897674934E-02

$ d-type functions

11 0 0

8.613526999E+02

2.644945669E+02

9.708763909E+01

4.092748054E+01

1.903541733E+01

9.384228044E+00

4.711030303E+00

2.313699078E+00

1.067981960E+00

4.451224144E-01

1.609333129E-01

$ f-type functions

2 0 0

5.052017053E-01

2.089038891E-01

$ g-type functions

1 0 0

4.451224144E-01

a 35

$ Br (Bromine)

$ s-type functions

21 0 0

4.007715215E+07

7.793199815E+06

1.742240559E+06

4.426433146E+05

1.263378002E+05

4.004298600E+04

1.393200026E+04

5.259863784E+03

2.130049307E+03

9.146166077E+02

4.116261029E+02

1.919381305E+02

9.166304357E+01

4.431819634E+01

2.144395083E+01

1.026461302E+01

4.804802525E+00

2.174121545E+00

9.400426156E-01

3.839253963E-01

1.464070021E-01

$ p-type functions

17 0 0

2.089306875E+05

4.723830957E+04

1.253377572E+04

3.833150596E+03

1.327110763E+03

5.108891993E+02

2.147857514E+02

9.685774280E+01

4.601551487E+01

2.262070976E+01

1.130137027E+01

5.635985280E+00

2.755582389E+00

1.297336658E+00

5.776684554E-01

2.389363495E-01

9.016839494E-02

$ d-type functions

11 0 0

9.492329793E+02

2.832269677E+02

1.030196347E+02

4.368290404E+01

2.064864558E+01

1.040501435E+01

5.344995194E+00

2.676627603E+00

1.249531069E+00

5.200045164E-01

1.844805554E-01

$ f-type functions

2 0 0

5.776684554E-01

2.389363495E-01

$ g-type functions

1 0 0

5.200045164E-01

a 36

$ Kr (Krypton)

$ s-type functions

21 0 0

4.200639615E+07

8.167577619E+06

1.825121075E+06

4.633823275E+05

1.321494758E+05

4.185028586E+04

1.455014203E+04

5.490358094E+03

2.222939064E+03

9.547215105E+02

4.300083951E+02

2.007969227E+02

9.610497644E+01

4.660926135E+01

2.264461277E+01

1.089563949E+01

5.132920224E+00

2.340610133E+00

1.021351518E+00

4.216302889E-01

1.627899483E-01

$ p-type functions

17 0 0

2.325642133E+05

5.053851611E+04

1.301169781E+04

3.894897434E+03

1.330231877E+03

5.086823116E+02

2.137334885E+02

9.683310490E+01

4.642150096E+01

2.310879126E+01

1.172240450E+01

5.946429749E+00

2.960156615E+00

1.419092112E+00

6.429284965E-01

2.701404693E-01

1.033023502E-01

$ d-type functions

11 0 0

1.010594323E+03

3.007980499E+02

1.096394627E+02

4.671733172E+01

2.221436683E+01

1.125278848E+01

5.796718461E+00

2.898849209E+00

1.343432765E+00

5.507806445E-01

1.906950218E-01

$ f-type functions

2 0 0

1.419092112E+00

6.429284965E-01

$ g-type functions

1 0 0

5.507806445E-01

a 37

$ Rb (Rubidium)

$ s-type functions

25 0 0

1.877072370E+08

3.771142117E+07

8.578430665E+06

2.189091295E+06

6.208962017E+05

1.939327926E+05

6.609043898E+04

2.434776926E+04

9.607068606E+03

4.022645846E+03

1.770923970E+03

8.121444152E+02

3.844057322E+02

1.860577281E+02

9.123991155E+01

4.491374816E+01

2.198918148E+01

1.060845568E+01

4.996738549E+00

2.276619548E+00

9.941265866E-01

4.122098150E-01

1.608045741E-01

5.847361128E-02

1.963726049E-02

$ p-type functions

19 0 0

2.798814008E+05

6.144392290E+04

1.589580691E+04

4.760222471E+03

1.620896305E+03

6.164655436E+02

2.572351173E+02

1.156809548E+02

5.507391010E+01

2.726620398E+01

1.378924383E+01

6.997380796E+00

3.499871783E+00

1.694855239E+00

7.805832328E-01

3.358568736E-01

1.326111252E-01

4.945598065E-02

1.793053531E-02

$ d-type functions

12 0 0

1.161742987E+03

3.417961449E+02

1.238975621E+02

5.280616899E+01

2.525344661E+01

1.293178735E+01

6.766843706E+00

3.452957489E+00

1.639689483E+00

6.914886933E-01

2.471436446E-01

7.144017356E-02

$ f-type functions

3 0 0

3.358568736E-01

1.326111252E-01

4.945598065E-02

$ g-type functions

1 0 0

7.144017356E-02

a 38

$ Sr (Strontium)

$ s-type functions

25 0 0

1.796079752E+08

3.617575901E+07

8.251058525E+06

2.111687297E+06

6.009044429E+05

1.883931180E+05

6.448168944E+04

2.387522537E+04

9.476024911E+03

3.994850151E+03

1.772549295E+03

8.202526139E+02

3.922620922E+02

1.920933885E+02

9.545172860E+01

4.768902296E+01

2.373800638E+01

1.166511954E+01

5.607654173E+00

2.613053325E+00

1.169548636E+00

4.982177654E-01

2.001607796E-01

7.514940620E-02

2.612683855E-02

$ p-type functions

19 0 0

3.751576728E+05

7.756206725E+04

1.912751379E+04

5.520794280E+03

1.829948153E+03

6.834873381E+02

2.822519275E+02

1.264498741E+02

6.030248589E+01

3.003638392E+01

1.533260621E+01

7.870467107E+00

3.986222290E+00

1.954606256E+00

9.104458251E-01

3.952813042E-01

1.569553294E-01

5.592728992E-02

1.754727515E-02

$ d-type functions

12 0 0

1.143517377E+03

3.412655823E+02

1.248655031E+02

5.347527531E+01

2.559083652E+01

1.306463104E+01

6.792839420E+00

3.434056192E+00

1.611482579E+00

6.701412009E-01

2.357706980E-01

6.699717063E-02

$ f-type functions

3 0 0

3.952813042E-01

1.569553294E-01

5.592728992E-02

$ g-type functions

1 0 0

6.699717063E-02

a 39

$ Y (Yttrium)

$ s-type functions

25 0 0

1.767964500E+08

4.054630069E+07

1.023450253E+07

2.824109781E+06

8.461693332E+05

2.734358095E+05

9.465366441E+04

3.486301480E+04

1.357061243E+04

5.545011940E+03

2.362302923E+03

1.042222117E+03

4.729749186E+02

2.192959433E+02

1.031808919E+02

4.893343273E+01

2.323332386E+01

1.096927185E+01

5.115246609E+00

2.340125815E+00

1.043175134E+00

4.500721761E-01

1.866704422E-01

7.392629349E-02

2.776603233E-02

$ p-type functions

19 0 0

3.634425755E+05

8.310790650E+04

2.206397691E+04

6.694940128E+03

2.285691390E+03

8.643368312E+02

3.563932906E+02

1.577406524E+02

7.377545551E+01

3.589391755E+01

1.788368686E+01

8.982702740E+00

4.477723939E+00

2.180692642E+00

1.021421507E+00

4.529762950E-01

1.872373260E-01

7.101374286E-02

2.432830966E-02

$ d-type functions

14 0 0

1.227979574E+03

4.524991053E+02

1.829007818E+02

7.962857810E+01

3.666588971E+01

1.753394619E+01

8.550777236E+00

4.175652055E+00

2.005026458E+00

9.295597561E-01

4.085829371E-01

1.671910989E-01

6.254036317E-02

2.099937031E-02

$ f-type functions

3 0 0

1.021421507E+00

4.529762950E-01

1.872373260E-01

$ g-type functions

2 0 0

4.085829371E-01

1.671910989E-01

$ h-type functions

1 0 0

4.529762950E-01

a 40

$ Zr (Zirconium)

$ s-type functions

25 0 0

1.832595584E+08

4.127169001E+07

1.027097858E+07

2.804610332E+06

8.343755202E+05

2.685382031E+05

9.283960544E+04

3.423500210E+04

1.337040243E+04

5.491396841E+03

2.355117568E+03

1.047275514E+03

4.794629841E+02

2.243996514E+02

1.066079062E+02

5.104861619E+01

2.446431390E+01

1.165101593E+01

5.475243309E+00

2.521036328E+00

1.129322604E+00

4.887056456E-01

2.028590056E-01

8.020215019E-02

2.998815154E-02

$ p-type functions

19 0 0

4.341718729E+05

9.600953402E+04

2.481462035E+04

7.375388799E+03

2.480216715E+03

9.284642403E+02

3.806755547E+02

1.681908897E+02

7.878635935E+01

3.849852565E+01

1.930745713E+01

9.777715382E+00

4.919539467E+00

2.419522512E+00

1.144449045E+00

5.122338159E-01

2.134462040E-01

8.147051203E-02

2.802513359E-02

$ d-type functions

14 0 0

1.526852285E+03

5.356762263E+02

2.084007678E+02

8.820535192E+01

3.984706396E+01

1.884996601E+01

9.161039549E+00

4.487515624E+00

2.173708510E+00

1.021498754E+00

4.569015881E-01

1.908371279E-01

7.302398706E-02

2.511526491E-02

$ f-type functions

3 0 0

1.144449045E+00

5.122338159E-01

2.134462040E-01

$ g-type functions

2 0 0

4.569015881E-01

1.908371279E-01

$ h-type functions

1 0 0

5.122338159E-01

a 41

$ Nb (Niobium)

$ s-type functions

25 0 0

1.961617470E+08

4.346787392E+07

1.067858127E+07

2.887073744E+06

8.527258707E+05

2.731343519E+05

9.418171919E+04

3.470470748E+04

1.356593490E+04

5.584171091E+03

2.402832134E+03

1.072881991E+03

4.934604712E+02

2.320773483E+02

1.107901600E+02

5.329245883E+01

2.564097532E+01

1.224942258E+01

5.767891328E+00

2.657339099E+00

1.189086431E+00

5.130084128E-01

2.118303823E-01

8.310225204E-02

3.074724421E-02

$ p-type functions

19 0 0

5.103594434E+05

1.105082306E+05

2.807671187E+04

8.231881217E+03

2.739184313E+03

1.017374406E+03

4.148067670E+02

1.825931202E+02

8.534235464E+01

4.165379223E+01

2.087960444E+01

1.057148171E+01

5.316960267E+00

2.612600492E+00

1.233481702E+00

5.503140702E-01

2.281785423E-01

8.647555258E-02

2.946010774E-02

$ d-type functions

14 0 0

1.425508386E+03

5.170506326E+02

2.061657840E+02

8.871642796E+01

4.044633440E+01

1.917898745E+01

9.285970295E+00

4.506794294E+00

2.152438416E+00

9.931160685E-01

4.345695384E-01

1.770485086E-01

6.592994408E-02

2.202999035E-02

$ f-type functions

3 0 0

1.233481702E+00

5.503140702E-01

2.281785423E-01

$ g-type functions

2 0 0

9.931160685E-01

4.345695384E-01

$ h-type functions

1 0 0

5.503140702E-01

a 42

$ Mo (Molybdenum)

$ s-type functions

25 0 0

1.702220962E+08

3.907235835E+07

9.900772778E+06

2.749974031E+06

8.313087973E+05

2.715718173E+05

9.519405189E+04

3.555101240E+04

1.404511930E+04

5.828334190E+03

2.522454063E+03

1.130514526E+03

5.209755513E+02

2.451100435E+02

1.169019333E+02

5.611944346E+01

2.692466741E+01

1.281878674E+01

6.013361805E+00

2.759788737E+00

1.230372698E+00

5.290712129E-01

2.178825404E-01

8.532490913E-02

3.154921795E-02

$ p-type functions

19 0 0

5.749058874E+05

1.221468969E+05

3.057504265E+04

8.864463139E+03

2.926444705E+03

1.081514900E+03

4.398765142E+02

1.935694916E+02

9.060511039E+01

4.434859967E+01

2.231620515E+01

1.134947515E+01

5.735192429E+00

2.830992871E+00

1.341991936E+00

6.005970146E-01

2.494826493E-01

9.456343164E-02

3.215389451E-02

$ d-type functions

14 0 0

1.488058285E+03

5.248991670E+02

2.056587928E+02

8.776172593E+01

3.999636478E+01

1.908817442E+01

9.354224636E+00

4.615531708E+00

2.248418983E+00

1.060340442E+00

4.746757042E-01

1.977895277E-01

7.522032630E-02

2.560140379E-02

$ f-type functions

3 0 0

1.341991936E+00

6.005970146E-01

2.494826493E-01

$ g-type functions

2 0 0

1.060340442E+00

4.746757042E-01

$ h-type functions

1 0 0

6.005970146E-01

a 43

$ Tc (Technetium)

$ s-type functions

25 0 0

1.662857499E+08

3.749132868E+07

9.381492149E+06

2.585865339E+06

7.792205499E+05

2.547786347E+05

8.971009981E+04

3.376159906E+04

1.347831555E+04

5.665089613E+03

2.488078682E+03

1.133274735E+03

5.313096253E+02

2.544656405E+02

1.235683403E+02

6.038227683E+01

2.946887609E+01

1.425598028E+01

6.784809115E+00

3.152919084E+00

1.419875514E+00

6.150034839E-01

2.542859433E-01

9.961212644E-02

3.669228500E-02

$ p-type functions

19 0 0

6.977697206E+05

1.458916437E+05

3.601998107E+04

1.032278381E+04

3.375483548E+03

1.237959665E+03

5.005573612E+02

2.193429057E+02

1.023908711E+02

5.005094847E+01

2.518386242E+01

1.282144105E+01

6.492341272E+00

3.214114644E+00

1.529193460E+00

6.873058958E-01

2.868598712E-01

1.092866578E-01

3.735834505E-02

$ d-type functions

14 0 0

1.829435397E+03

6.377687147E+02

2.483872236E+02

1.059162483E+02

4.846303461E+01

2.331957801E+01

1.156485581E+01

5.793174308E+00

2.872745775E+00

1.382067976E+00

6.322089082E-01

2.694872367E-01

1.049082303E-01

3.655292004E-02

$ f-type functions

3 0 0

1.529193460E+00

6.873058958E-01

2.868598712E-01

$ g-type functions

2 0 0

1.382067976E+00

6.322089082E-01

$ h-type functions

1 0 0

6.873058958E-01

a 44

$ Ru (Ruthenium)

$ s-type functions

25 0 0

1.614539079E+08

3.676151529E+07

9.274660363E+06

2.573515073E+06

7.795497434E+05

2.558666533E+05

9.032346863E+04

3.403838236E+04

1.359198632E+04

5.708302497E+03

2.502680379E+03

1.136952918E+03

5.312299827E+02

2.533903125E+02

1.224698229E+02

5.953387491E+01

2.889079638E+01

1.389247111E+01

6.570349030E+00

3.033546477E+00

1.357158163E+00

5.839722293E-01

2.398833868E-01

9.337244226E-02

3.418315610E-02

$ p-type functions

19 0 0

7.371120270E+05

1.548700830E+05

3.834875677E+04

1.100353659E+04

3.597145955E+03

1.317273979E+03

5.312928512E+02

2.320487095E+02

1.079093780E+02

5.253171600E+01

2.632169627E+01

1.334699711E+01

6.734078696E+00

3.323879388E+00

1.578091912E+00

7.085766232E-01

2.958396336E-01

1.129245636E-01

3.874632668E-02

$ d-type functions

14 0 0

1.914069549E+03

6.473621501E+02

2.469160509E+02

1.039034494E+02

4.719059217E+01

2.263038290E+01

1.120999929E+01

5.611289438E+00

2.776702514E+00

1.328837355E+00

6.016671342E-01

2.521441700E-01

9.567885039E-02

3.216055511E-02

$ f-type functions

3 0 0

1.578091912E+00

7.085766232E-01

2.958396336E-01

$ g-type functions

2 0 0

1.328837355E+00

6.016671342E-01

$ h-type functions

1 0 0

7.085766232E-01

a 45

$ Rh (Rhodium)

$ s-type functions

25 0 0

1.530625979E+08

3.504866765E+07

8.897645976E+06

2.485441885E+06

7.581946107E+05

2.506859935E+05

8.916110633E+04

3.385638133E+04

1.362225617E+04

5.764009285E+03

2.545605676E+03

1.164587506E+03

5.477613257E+02

2.628890858E+02

1.277730917E+02

6.241882877E+01

3.041759674E+01

1.467543416E+01

6.957248303E+00

3.216534694E+00

1.439351534E+00

6.187242170E-01

2.535728001E-01

9.833479955E-02

3.581249121E-02

$ p-type functions

19 0 0

8.575302407E+05

1.785166813E+05

4.376991798E+04

1.243116741E+04

4.022157165E+03

1.458104946E+03

5.824690320E+02

2.521638888E+02

1.163564944E+02

5.628176787E+01

2.806634670E+01

1.419112349E+01

7.155370016E+00

3.538372278E+00

1.687729129E+00

7.636624720E-01

3.223823956E-01

1.248774550E-01

4.365271880E-02

$ d-type functions

14 0 0

1.974411246E+03

6.692546256E+02

2.562224176E+02

1.083700640E+02

4.952933321E+01

2.392605319E+01

1.194894499E+01

6.034377274E+00

3.014215098E+00

1.456630473E+00

6.661198797E-01

2.819536598E-01

1.080487879E-01

3.666683033E-02

$ f-type functions

3 0 0

1.687729129E+00

7.636624720E-01

3.223823956E-01

$ g-type functions

2 0 0

1.456630473E+00

6.661198797E-01

$ h-type functions

1 0 0

7.636624720E-01

a 46

$ Pd (Palladium)

$ s-type functions

26 0 0

1.718569821E+08

3.869939731E+07

9.756676216E+06

2.732309697E+06

8.432531311E+05

2.845480924E+05

1.041580259E+05

4.103352404E+04

1.726090556E+04

7.691954179E+03

3.602697694E+03

1.759570387E+03

8.890840636E+02

4.611115861E+02

2.435375539E+02

1.299547654E+02

6.951115636E+01

3.697622064E+01

1.940733476E+01

9.971358139E+00

4.975737283E+00

2.392461436E+00

1.099731075E+00

4.794593181E-01

1.967027419E-01

7.534112782E-02

$ p-type functions

19 0 0

9.959637868E+05

1.977549193E+05

4.685017601E+04

1.300314843E+04

4.151378712E+03

1.496910750E+03

5.985664330E+02

2.606122863E+02

1.213100187E+02

5.927490775E+01

2.985181329E+01

1.521420760E+01

7.704774438E+00

3.806761504E+00

1.801730108E+00

8.020756075E-01

3.297505788E-01

1.229288128E-01

4.080119193E-02

$ d-type functions

14 0 0

1.859683876E+03

6.372664379E+02

2.458257609E+02

1.043875042E+02

4.771717948E+01

2.296130126E+01

1.137376005E+01

5.671367785E+00

2.783800444E+00

1.315361957E+00

5.850590431E-01

2.395475371E-01

8.829003108E-02

2.864507264E-02

$ f-type functions

3 0 0

1.801730108E+00

8.020756075E-01

3.297505788E-01

$ g-type functions

2 0 0

1.315361957E+00

5.850590431E-01

$ h-type functions

1 0 0

8.020756075E-01

a 47

$ Ag (Silver)

$ s-type functions

25 0 0

1.559462084E+08

3.582872462E+07

9.133497564E+06

2.563655536E+06

7.862606781E+05

2.614720790E+05

9.356286402E+04

3.574939241E+04

1.447399236E+04

6.162118925E+03

2.737545972E+03

1.259360077E+03

5.953373404E+02

2.869911945E+02

1.400018628E+02

6.858456622E+01

3.348219058E+01

1.616455540E+01

7.658498685E+00

3.533629767E+00

1.575663656E+00

6.738117933E-01

2.742293036E-01

1.054039346E-01

3.796951417E-02

$ p-type functions

19 0 0

1.048135411E+06

2.099389035E+05

5.005810437E+04

1.395666187E+04

4.469244718E+03

1.614551395E+03

6.463302926E+02

2.816188921E+02

1.311877960E+02

6.417549111E+01

3.238238405E+01

1.655510842E+01

8.422840376E+00

4.188978975E+00

2.000325166E+00

9.008563911E-01

3.758311859E-01

1.426698120E-01

4.840532342E-02

$ d-type functions

14 0 0

2.346979016E+03

7.895659183E+02

3.002116891E+02

1.262181656E+02

5.740718302E+01

2.763476398E+01

1.377480561E+01

6.955853675E+00

3.481333914E+00

1.689531345E+00

7.778703174E-01

3.324019509E-01

1.289823814E-01

4.446340579E-02

$ f-type functions

3 0 0

2.000325166E+00

9.008563911E-01

3.758311859E-01

$ g-type functions

2 0 0

1.689531345E+00

7.778703174E-01

$ h-type functions

1 0 0

9.008563911E-01

a 48

$ Cd (Cadmium)

$ s-type functions

25 0 0

1.439742140E+08

3.348673768E+07

8.625844795E+06

2.442528635E+06

7.546671786E+05

2.525326780E+05

9.084365075E+04

3.487024475E+04

1.417644651E+04

6.058990788E+03

2.702229748E+03

1.248250844E+03

5.927992346E+02

2.872818032E+02

1.410171291E+02

6.959330087E+01

3.427388764E+01

1.671968982E+01

8.019190456E+00

3.753521029E+00

1.701851812E+00

7.419040491E-01

3.086635897E-01

1.216475242E-01

4.507854673E-02

$ p-type functions

19 0 0

1.244931229E+06

2.447399633E+05

5.738086639E+04

1.576049463E+04

4.981394840E+03

1.779706229E+03

7.059919591E+02

3.054521027E+02

1.415846800E+02

6.906484437E+01

3.482597556E+01

1.783170510E+01

9.106754616E+00

4.556731345E+00

2.194320661E+00

9.989447951E-01

4.222945359E-01

1.628395386E-01

5.626165996E-02

$ d-type functions

14 0 0

2.912502614E+03

9.458028609E+02

3.518585675E+02

1.464439958E+02

6.659071375E+01

3.230703890E+01

1.633145019E+01

8.400384867E+00

4.293615799E+00

2.129607002E+00

1.000992370E+00

4.354314656E-01

1.711864236E-01

5.939939497E-02

$ f-type functions

3 0 0

2.194320661E+00

9.989447951E-01

4.222945359E-01

$ g-type functions

2 0 0

2.129607002E+00

1.000992370E+00

$ h-type functions

1 0 0

9.989447951E-01

a 49

$ In (Indium)

$ s-type functions

25 0 0

1.348158222E+08

3.178833033E+07

8.293497653E+06

2.376685659E+06

7.426610214E+05

2.511974553E+05

9.129908294E+04

3.539688332E+04

1.453221844E+04

6.271738595E+03

2.824580610E+03

1.317804074E+03

6.322654069E+02

3.096852729E+02

1.537216710E+02

7.676511534E+01

3.828492828E+01

1.892987492E+01

9.211799596E+00

4.379644935E+00

2.019537232E+00

8.966113234E-01

3.804668504E-01

1.531829859E-01

5.809064463E-02

$ p-type functions

21 0 0

2.535808680E+06

5.497144499E+05

1.370375986E+05

3.880580142E+04

1.233048954E+04

4.342733112E+03

1.674624856E+03

6.984187854E+02

3.111936243E+02

1.463303066E+02

7.172971436E+01

3.620741844E+01

1.859097107E+01

9.591467450E+00

4.911553978E+00

2.465903522E+00

1.199026964E+00

5.577633085E-01

2.451949210E-01

1.006203790E-01

3.807551547E-02

$ d-type functions

14 0 0

2.919907535E+03

1.010715927E+03

3.905601419E+02

1.653818952E+02

7.533064367E+01

3.623109802E+01

1.806175106E+01

9.161132870E+00

4.640790035E+00

2.304785435E+00

1.101557975E+00

4.973532155E-01

2.082311263E-01

7.935822553E-02

$ f-type functions

2 0 0

5.577633085E-01

2.451949210E-01

$ g-type functions

1 0 0

2.082311263E-01

a 50

$ Sn (Tin)

$ s-type functions

25 0 0

1.367616506E+08

3.207567518E+07

8.337631689E+06

2.384191754E+06

7.444703076E+05

2.519633964E+05

9.174608669E+04

3.567580778E+04

1.470524964E+04

6.377632016E+03

2.888757796E+03

1.356449316E+03

6.554097939E+02

3.234561013E+02

1.618404145E+02

8.148993643E+01

4.098665607E+01

2.043989481E+01

1.003202567E+01

4.810038706E+00

2.236323434E+00

1.000743815E+00

4.278481114E-01

1.734646076E-01

6.620073933E-02

$ p-type functions

21 0 0

3.279238911E+06

6.876544204E+05

1.668262786E+05

4.623102483E+04

1.444957952E+04

5.029297436E+03

1.924720398E+03

7.996758628E+02

3.561427681E+02

1.678710743E+02

8.268885924E+01

4.202573483E+01

2.175998589E+01

1.133325537E+01

5.862479071E+00

2.973831071E+00

1.460620651E+00

6.858395482E-01

3.039830388E-01

1.255728390E-01

4.773527188E-02

$ d-type functions

14 0 0

3.365477181E+03

1.134031272E+03

4.301877047E+02

1.801513356E+02

8.166866523E+01

3.930102306E+01

1.968677733E+01

1.006606490E+01

5.151706289E+00

2.587859440E+00

1.251181866E+00

5.709292793E-01

2.411116835E-01

9.241026346E-02

$ f-type functions

2 0 0

3.039830388E-01

1.255728390E-01

$ g-type functions

1 0 0

2.411116835E-01

a 51

$ Sb (Antimony)

$ s-type functions

25 0 0

1.286666567E+08

2.892644943E+07

7.292435698E+06

2.044380799E+06

6.320130199E+05

2.136626666E+05

7.833087738E+04

3.088178581E+04

1.298375258E+04

5.772843776E+03

2.691748433E+03

1.305261607E+03

6.527433107E+02

3.338354157E+02

1.731533261E+02

9.032356318E+01

4.699010535E+01

2.417743642E+01

1.220045130E+01

5.987791878E+00

2.834301156E+00

1.283149111E+00

5.509642724E-01

2.225093503E-01

8.381368813E-02

$ p-type functions

21 0 0

3.767144337E+06

7.660461482E+05

1.810227108E+05

4.907310156E+04

1.506548501E+04

5.170692952E+03

1.958561693E+03

8.082495901E+02

3.587321615E+02

1.690474307E+02

8.349435761E+01

4.266903573E+01

2.227268275E+01

1.172284682E+01

6.141739042E+00

3.161871342E+00

1.579022973E+00

7.551286997E-01

3.413804392E-01

1.440251286E-01

5.597791875E-02

$ d-type functions

14 0 0

3.620812446E+03

1.205684687E+03

4.540956270E+02

1.895993133E+02

8.601854148E+01

4.156265385E+01

2.096333407E+01

1.081815842E+01

5.598506971E+00

2.847783843E+00

1.395557516E+00

6.457796952E-01

2.765712079E-01

1.074497700E-01

$ f-type functions

2 0 0

3.413804392E-01

1.440251286E-01

$ g-type functions

1 0 0

2.765712079E-01

a 52

$ Te (Tellurium)

$ s-type functions

25 0 0

1.188176888E+08

2.674877113E+07

6.771759722E+06

1.911245183E+06

5.961981373E+05

2.037822538E+05

7.566339616E+04

3.025458583E+04

1.291590058E+04

5.836177105E+03

2.767226501E+03

1.364946466E+03

6.943579004E+02

3.611521338E+02

1.904049428E+02

1.008764217E+02

5.324351573E+01

2.775566100E+01

1.416727769E+01

7.019616864E+00

3.347146870E+00

1.522694141E+00

6.551931057E-01

2.643546075E-01

9.915338861E-02

$ p-type functions

21 0 0

4.286312414E+06

8.766677429E+05

2.081745666E+05

5.666034607E+04

1.745047135E+04

6.003837938E+03

2.278043922E+03

9.410745611E+02

4.178614013E+02

1.968811942E+02

9.717564770E+01

4.960316148E+01

2.585100605E+01

1.357935662E+01

7.097935773E+00

3.644630771E+00

1.814935038E+00

8.653109140E-01

3.899458487E-01

1.639739726E-01

6.351868630E-02

$ d-type functions

14 0 0

4.196390059E+03

1.371511947E+03

5.093213667E+02

2.105673979E+02

9.495890036E+01

4.576820850E+01

2.310011903E+01

1.196258312E+01

6.227798369E+00

3.193605892E+00

1.580533404E+00

7.396733910E-01

3.207219245E-01

1.262432068E-01

$ f-type functions

2 0 0

3.899458487E-01

1.639739726E-01

$ g-type functions

1 0 0

3.207219245E-01

a 53

$ I (Iodine)

$ s-type functions

25 0 0

1.235253074E+08

2.763027891E+07

6.959159879E+06

1.956557522E+06

6.087160172E+05

2.077519856E+05

7.710916904E+04

3.085455525E+04

1.319492809E+04

5.978486817E+03

2.845077341E+03

1.409734968E+03

7.210136783E+02

3.773411885E+02

2.003233810E+02

1.069443466E+02

5.691605936E+01

2.993537207E+01

1.542514955E+01

7.719533099E+00

3.719560726E+00

1.710618971E+00

7.443856077E-01

3.038419576E-01

1.153253176E-01

$ p-type functions

21 0 0

5.058911310E+06

9.900977547E+05

2.268404533E+05

6.002554985E+04

1.809992545E+04

6.136125205E+03

2.307492060E+03

9.496565834E+02

4.220122962E+02

1.997871584E+02

9.941359212E+01

5.129930526E+01

2.708423105E+01

1.443486195E+01

7.662167589E+00

3.996550773E+00

2.020996156E+00

9.775610607E-01

4.462439519E-01

1.896717379E-01

7.406048032E-02

$ d-type functions

14 0 0

4.246986262E+03

1.380058294E+03

5.116191497E+02

2.118722221E+02

9.596750538E+01

4.655243786E+01

2.367956806E+01

1.236697069E+01

6.493161128E+00

3.355810328E+00

1.671598971E+00

7.857878892E-01

3.413203629E-01

1.341367510E-01

$ f-type functions

2 0 0

4.462439519E-01

1.896717379E-01

$ g-type functions

1 0 0

3.413203629E-01

a 54

$ Xe (Xenon)

$ s-type functions

25 0 0

1.188842243E+08

2.635274948E+07

6.603811044E+06

1.853933660E+06

5.778144966E+05

1.981258838E+05

7.406557287E+04

2.991422722E+04

1.293568015E+04

5.934917342E+03

2.862976958E+03

1.439006147E+03

7.468147905E+02

3.965815294E+02

2.135429382E+02

1.155406880E+02

6.225088575E+01

3.309640473E+01

1.720697971E+01

8.669236774E+00

4.194433561E+00

1.931282736E+00

8.386144218E-01

3.403192942E-01

1.279035033E-01

$ p-type functions

21 0 0

6.350064231E+06

1.212927247E+06

2.721059374E+05

7.072093605E+04

2.100510138E+04

7.032802908E+03

2.618298024E+03

1.069194607E+03

4.723909569E+02

2.227478948E+02

1.105739801E+02

5.700063067E+01

3.009912342E+01

1.605963189E+01

8.540532713E+00

4.465417330E+00

2.264263413E+00

1.098347412E+00

5.027597278E-01

2.142147085E-01

8.380428577E-02

$ d-type functions

14 0 0

4.354113781E+03

1.415449281E+03

5.256557401E+02

2.182902913E+02

9.922170579E+01

4.832051629E+01

2.467870693E+01

1.293875656E+01

6.816404260E+00

3.532028031E+00

1.762025943E+00

8.283867782E-01

3.592527253E-01

1.406780650E-01

$ f-type functions

2 0 0

5.027597278E-01

2.142147085E-01

$ g-type functions

1 0 0

3.592527253E-01

a 55

$ Cs (Caesium)

$ s-type functions

30 0 0

1.532069592E+08

3.868527134E+07

1.082603162E+07

3.335030815E+06

1.123279296E+06

4.108501282E+05

1.620829365E+05

6.850145392E+04

3.080500847E+04

1.464038012E+04

7.303705903E+03

3.798783406E+03

2.046004312E+03

1.133390953E+03

6.413787245E+02

3.682658058E+02

2.130937472E+02

1.234220935E+02

7.106870953E+01

4.040896208E+01

2.253414755E+01

1.224106405E+01

6.433721139E+00

3.249531476E+00

1.566553179E+00

7.159551918E-01

3.081011193E-01

1.239989104E-01

4.635643704E-02

1.598896094E-02

$ p-type functions

23 0 0

6.627847402E+06

1.317373589E+06

3.041650948E+05

8.057516929E+04

2.418866898E+04

8.127726277E+03

3.019256302E+03

1.224706913E+03

5.357881369E+02

2.496952125E+02

1.224365254E+02

6.239113661E+01

3.263423071E+01

1.730572921E+01

9.189670325E+00

4.826484589E+00

2.476340393E+00

1.225929925E+00

5.783946922E-01

2.568702217E-01

1.060624103E-01

4.021563729E-02

1.383061878E-02

$ d-type functions

15 0 0

5.231139634E+03

1.665987031E+03

6.074744909E+02

2.483995491E+02

1.115642604E+02

5.390587636E+01

2.744536845E+01

1.442145758E+01

7.660226080E+00

4.028575979E+00

2.054585760E+00

9.952792138E-01

4.485374834E-01

1.841920578E-01

6.750665824E-02

$ f-type functions

4 0 0

5.783946922E-01

2.568702217E-01

1.060624103E-01

4.021563729E-02

$ g-type functions

1 0 0

6.750665824E-02

a 56

$ Ba (Barium)

$ s-type functions

30 0 0

1.585253443E+08

3.898929057E+07

1.065151567E+07

3.210403876E+06

1.060358809E+06

3.812006891E+05

1.481579261E+05

6.183426772E+04

2.752513173E+04

1.298040301E+04

6.441221986E+03

3.340661030E+03

1.798636254E+03

9.985361597E+02

5.677491667E+02

3.283856749E+02

1.919153114E+02

1.125629596E+02

6.581192169E+01

3.809777091E+01

2.168918424E+01

1.206141505E+01

6.507698633E+00

3.383712559E+00

1.684065921E+00

7.968691970E-01

3.560738275E-01

1.492384953E-01

5.827364709E-02

2.105604501E-02

$ p-type functions

23 0 0

8.077989360E+06

1.530396258E+06

3.403734417E+05

8.768886235E+04

2.581998885E+04

8.573859375E+03

3.168043960E+03

1.285246488E+03

5.648691831E+02

2.653758598E+02

1.314960988E+02

6.780911725E+01

3.590648787E+01

1.926429964E+01

1.033272400E+01

5.466930916E+00

2.815304289E+00

1.392342063E+00

6.525161067E-01

2.859216667E-01

1.155844155E-01

4.253375503E-02

1.405841133E-02

$ d-type functions

15 0 0

5.990803736E+03

1.849760030E+03

6.599296840E+02

2.660878748E+02

1.186016770E+02

5.715945426E+01

2.913466248E+01

1.536207064E+01

8.195973556E+00

4.327683964E+00

2.212116027E+00

1.070658121E+00

4.799295081E-01

1.948861562E-01

7.012204960E-02

$ f-type functions

4 0 0

6.525161067E-01

2.859216667E-01

1.155844155E-01

4.253375503E-02

$ g-type functions

1 0 0

7.012204960E-02

a 57

$ La (Lanthanum)

$ s-type functions

31 0 0

1.693237518E+08

4.026346052E+07

1.068651416E+07

3.143715721E+06

1.017848604E+06

3.601689774E+05

1.383130323E+05

5.724058554E+04

2.535010020E+04

1.192999944E+04

5.924296407E+03

3.082614600E+03

1.668930537E+03

9.335645511E+02

5.357818380E+02

3.132706077E+02

1.853061447E+02

1.101156340E+02

6.527511134E+01

3.832977027E+01

2.213936965E+01

1.249065490E+01

6.835126755E+00

3.602465450E+00

1.815914711E+00

8.693285102E-01

3.924783772E-01

1.659362864E-01

6.523960148E-02

2.368514331E-02

7.884715023E-03

$ p-type functions

23 0 0

1.006323333E+07

1.896305287E+06

4.193792744E+05

1.074162164E+05

3.144366069E+04

1.038084959E+04

3.814217268E+03

1.539171004E+03

6.731524308E+02

3.148627237E+02

1.554341871E+02

7.991448358E+01

4.222739449E+01

2.263023662E+01

1.213797140E+01

6.429859964E+00

3.319643854E+00

1.648360619E+00

7.768191256E-01

3.428709697E-01

1.398687948E-01

5.203870073E-02

1.742543933E-02

$ d-type functions

16 0 0

4.775657703E+03

1.694015057E+03

6.625280324E+02

2.813420277E+02

1.277464308E+02

6.107833490E+01

3.028240056E+01

1.533199089E+01

7.806428607E+00

3.936336921E+00

1.935791648E+00

9.143066559E-01

4.084439970E-01

1.699499202E-01

6.486309520E-02

2.236161027E-02

$ f-type functions

12 0 0

1.554341871E+02

7.991448358E+01

4.222739449E+01

2.263023662E+01

1.213797140E+01

6.429859964E+00

3.319643854E+00

1.648360619E+00

7.768191256E-01

3.428709697E-01

1.398687948E-01

5.203870073E-02

$ g-type functions

5 0 0

9.143066559E-01

4.084439970E-01

1.699499202E-01

6.486309520E-02

2.236161027E-02

$ h-type functions

2 0 0

3.428709697E-01

1.398687948E-01

a 58

$ Ce (Cerium)

$ s-type functions

31 0 0

1.717256364E+08

4.172259351E+07

1.128832905E+07

3.377585130E+06

1.109934383E+06

3.978311103E+05

1.544566788E+05

6.450854322E+04

2.878236301E+04

1.362480847E+04

6.795559058E+03

3.546556477E+03

1.923408588E+03

1.076503092E+03

6.174960017E+02

3.605157428E+02

2.127558998E+02

1.260382492E+02

7.443592018E+01

4.352294647E+01

2.502105528E+01

1.404561111E+01

7.645738127E+00

4.008095291E+00

2.009521121E+00

9.569276604E-01

4.298270224E-01

1.808558138E-01

7.079318686E-02

2.560157950E-02

8.494825131E-03

$ p-type functions

23 0 0

8.604848729E+06

1.654439451E+06

3.728798994E+05

9.721125997E+04

2.892762121E+04

9.695639708E+03

3.611826321E+03

1.475648559E+03

6.524748159E+02

3.080976256E+02

1.533118690E+02

7.933139290E+01

4.212261290E+01

2.264672957E+01

1.216563268E+01

6.443501969E+00

3.320368909E+00

1.642656911E+00

7.698792089E-01

3.373125997E-01

1.363313794E-01

5.015698617E-02

1.657518643E-02

$ d-type functions

16 0 0

5.159600038E+03

1.782858144E+03

6.845331933E+02

2.873167449E+02

1.296963628E+02

6.194508062E+01

3.079709449E+01

1.568008086E+01

8.043298959E+00

4.089584792E+00

2.027659596E+00

9.644804606E-01

4.329982167E-01

1.805031566E-01

6.873868911E-02

2.352595017E-02

$ f-type functions

12 0 0

2.480995597E+02

1.037479793E+02

4.578668838E+01

2.109137991E+01

1.002945121E+01

4.869181916E+00

2.386941227E+00

1.168515792E+00

5.649822740E-01

2.668349263E-01

1.217470319E-01

5.307404478E-02

$ g-type functions

5 0 0

2.027659596E+00

9.644804606E-01

4.329982167E-01

1.805031566E-01

6.873868911E-02

$ h-type functions

2 0 0

5.649822740E-01

2.668349263E-01

a 59

$ Pr (Praseodymium)

$ s-type functions

31 0 0

1.699651027E+08

4.107016606E+07

1.106335377E+07

3.299118982E+06

1.081476755E+06

3.869916790E+05

1.501096063E+05

6.267508919E+04

2.797166032E+04

1.325059974E+04

6.616129920E+03

3.457649030E+03

1.878120182E+03

1.052903657E+03

6.049700379E+02

3.537661458E+02

2.090706361E+02

1.239999107E+02

7.329231838E+01

4.287079102E+01

2.464266532E+01

1.382274193E+01

7.513430176E+00

3.929859627E+00

1.964118759E+00

9.314672003E-01

4.162303092E-01

1.740296885E-01

6.760731444E-02

2.423270650E-02

7.958024093E-03

$ p-type functions

23 0 0

1.095288748E+07

2.076480462E+06

4.614243269E+05

1.186048606E+05

3.480084549E+04

1.150319171E+04

4.227115566E+03

1.704209697E+03

7.438939671E+02

3.469477549E+02

1.706232119E+02

8.731504408E+01

4.588523093E+01

2.443687075E+01

1.301556527E+01

6.841970473E+00

3.503128129E+00

1.724024608E+00

8.048212909E-01

3.517061461E-01

1.419844912E-01

5.225625218E-02

1.730326074E-02

$ d-type functions

16 0 0

7.298437961E+03

2.377619340E+03

8.745546960E+02

3.568584343E+02

1.587089376E+02

7.558494880E+01

3.787301441E+01

1.961630137E+01

1.031879941E+01

5.416242480E+00

2.787122151E+00

1.381449370E+00

6.479882030E-01

2.826080145E-01

1.125950212E-01

4.026274031E-02

$ f-type functions

12 0 0

2.575287643E+02

1.049843308E+02

4.502499952E+01

2.008110975E+01

9.206630858E+00

4.289108633E+00

2.007062628E+00

9.325167316E-01

4.252344477E-01

1.881267748E-01

7.981737008E-02

3.210281514E-02

$ g-type functions

5 0 0

5.416242480E+00

2.787122151E+00

1.381449370E+00

6.479882030E-01

2.826080145E-01

$ h-type functions

2 0 0

4.289108633E+00

2.007062628E+00

a 60

$ Nd (Neodymium)

$ s-type functions

31 0 0

1.691153375E+08

4.122575013E+07

1.118983006E+07

3.358376339E+06

1.106796485E+06

3.977592719E+05

1.547991518E+05

6.478793794E+04

2.895867233E+04

1.372788516E+04

6.854104494E+03

3.579327942E+03

1.941500643E+03

1.086276682E+03

6.225752317E+02

3.629721267E+02

2.137796497E+02

1.263143485E+02

7.435562776E+01

4.330434039E+01

2.477918560E+01

1.383446088E+01

7.484083991E+00

3.895810832E+00

1.937855795E+00

9.147260158E-01

4.069004574E-01

1.693926217E-01

6.553775461E-02

2.340243112E-02

7.659216313E-03

$ p-type functions

23 0 0

9.842830204E+06

1.897373842E+06

4.278989462E+05

1.114286768E+05

3.306985063E+04

1.103974528E+04

4.091565311E+03

1.661634856E+03

7.298093556E+02

3.421551186E+02

1.690006965E+02

8.679962345E+01

4.575337522E+01

2.442960466E+01

1.304096716E+01

6.869344233E+00

3.524073285E+00

1.737844086E+00

8.130644512E-01

3.562045605E-01

1.442269345E-01

5.326938966E-02

1.771354869E-02

$ d-type functions

16 0 0

7.063732040E+03

2.307956999E+03

8.509658031E+02

3.479136392E+02

1.549850498E+02

7.391817219E+01

3.708854065E+01

1.923709273E+01

1.013524738E+01

5.329770926E+00

2.748818486E+00

1.366252487E+00

6.430537944E-01

2.816301432E-01

1.127743965E-01

4.057191306E-02

$ f-type functions

12 0 0

2.566803987E+02

1.065449337E+02

4.642639788E+01

2.099296682E+01

9.737418842E+00

4.579938447E+00

2.159264015E+00

1.008710927E+00

4.615589043E-01

2.044897427E-01

8.671305100E-02

3.478968580E-02

$ g-type functions

5 0 0

1.013524738E+01

5.329770926E+00

2.748818486E+00

1.366252487E+00

6.430537944E-01

$ h-type functions

2 0 0

4.579938447E+00

2.159264015E+00

a 61

$ Pm (Promethium)

$ s-type functions

31 0 0

1.713488333E+08

4.423254292E+07

1.258946080E+07

3.925856264E+06

1.332850005E+06

4.895593565E+05

1.933143984E+05

8.154839066E+04

3.651880087E+04

1.725143077E+04

8.542771763E+03

4.406513815E+03

2.352727848E+03

1.292070022E+03

7.252634363E+02

4.134837708E+02

2.379203997E+02

1.373007775E+02

7.896597306E+01

4.497697481E+01

2.521049201E+01

1.381881517E+01

7.360651860E+00

3.785953749E+00

1.868553189E+00

8.793551975E-01

3.921114193E-01

1.646260306E-01

6.466793009E-02

2.361774483E-02

7.969011992E-03

$ p-type functions

23 0 0

1.059836841E+07

2.025808297E+06

4.532896692E+05

1.171889942E+05

3.454989644E+04

1.146491866E+04

4.226441858E+03

1.708338389E+03

7.472800177E+02

3.491553445E+02

1.719868578E+02

8.815124714E+01

4.640167717E+01

2.475861244E+01

1.321666002E+01

6.966831665E+00

3.579171301E+00

1.768799506E+00

8.299254383E-01

3.649045481E-01

1.483934035E-01

5.508843341E-02

1.842604567E-02

$ d-type functions

16 0 0

6.994773025E+03

2.290822475E+03

8.475971160E+02

3.480874383E+02

1.558865680E+02

7.479475150E+01

3.777428508E+01

1.972898328E+01

1.046928676E+01

5.545670285E+00

2.880952996E+00

1.442062543E+00

6.833110374E-01

3.011340116E-01

1.212631475E-01

4.383753603E-02

$ f-type functions

12 0 0

2.725688394E+02

1.113164159E+02

4.814403074E+01

2.175928159E+01

1.014107927E+01

4.809278991E+00

2.290079626E+00

1.080474845E+00

4.984147102E-01

2.218185213E-01

9.398405338E-02

3.740921516E-02

$ g-type functions

5 0 0

1.046928676E+01

5.545670285E+00

2.880952996E+00

1.442062543E+00

6.833110374E-01

$ h-type functions

2 0 0

4.809278991E+00

2.290079626E+00

a 62

$ Sm (Samarium)

$ s-type functions

31 0 0

1.712712792E+08

4.502418042E+07

1.301400306E+07

4.110625144E+06

1.410148315E+06

5.221673673E+05

2.074296073E+05

8.785690779E+04

3.943240818E+04

1.863935901E+04

9.222252294E+03

4.746783732E+03

2.526075806E+03

1.381356796E+03

7.714467980E+02

4.372952731E+02

2.500577636E+02

1.433609028E+02

8.189813353E+01

4.633383427E+01

2.580070094E+01

1.405406194E+01

7.442817731E+00

3.808606755E+00

1.871613546E+00

8.778404535E-01

3.905642005E-01

1.638229621E-01

6.438588683E-02

2.356504229E-02

7.982436387E-03

$ p-type functions

23 0 0

1.270362312E+07

2.449662952E+06

5.518602090E+05

1.433632152E+05

4.239105039E+04

1.408251779E+04

5.187976666E+03

2.092036152E+03

9.114560083E+02

4.234864169E+02

2.071201704E+02

1.052510243E+02

5.485209054E+01

2.893775564E+01

1.525398108E+01

7.930309733E+00

4.013539806E+00

1.951809233E+00

9.002464566E-01

3.887242394E-01

1.551028807E-01

5.644663217E-02

1.849430549E-02

$ d-type functions

16 0 0

7.706916812E+03

2.497594654E+03

9.157489831E+02

3.731772534E+02

1.660386290E+02

7.923725004E+01

3.984253457E+01

2.073637579E+01

1.097382701E+01

5.800878238E+00

3.008921100E+00

1.504458755E+00

7.123168769E-01

3.137333378E-01

1.262739073E-01

4.562502418E-02

$ f-type functions

12 0 0

3.126018494E+02

1.252448045E+02

5.367478840E+01

2.422282759E+01

1.133247160E+01

5.410920756E+00

2.595767977E+00

1.231714796E+00

5.691221221E-01

2.520886111E-01

1.053791915E-01

4.092717865E-02

$ g-type functions

5 0 0

1.097382701E+01

5.800878238E+00

3.008921100E+00

1.504458755E+00

7.123168769E-01

$ h-type functions

2 0 0

5.410920756E+00

2.595767977E+00

a 63

$ Eu (Europium)

$ s-type functions

31 0 0

1.711970773E+08

4.614923292E+07

1.364998380E+07

4.402959444E+06

1.539385974E+06

5.798104612E+05

2.338329137E+05

1.003579310E+05

4.555852050E+04

2.174226428E+04

1.084182930E+04

5.614465116E+03

3.001011287E+03

1.645605307E+03

9.200849571E+02

5.213384696E+02

2.975408487E+02

1.700019080E+02

9.664663959E+01

5.433640183E+01

3.002697207E+01

1.621041530E+01

8.497361035E+00

4.298596884E+00

2.085775099E+00

9.648320875E-01

4.228875411E-01

1.745550129E-01

6.744029085E-02

2.423994381E-02

8.055903194E-03

$ p-type functions

23 0 0

1.337056809E+07

2.534353918E+06

5.623587879E+05

1.441775358E+05

4.215301759E+04

1.387125545E+04

5.070700591E+03

2.032330493E+03

8.814626945E+02

4.083248836E+02

1.993926448E+02

1.013031307E+02

5.285135379E+01

2.794589036E+01

1.478146368E+01

7.719046465E+00

3.927947406E+00

1.922350331E+00

8.930450002E-01

3.886844381E-01

1.564274751E-01

5.745529522E-02

1.900891363E-02

$ d-type functions

16 0 0

7.808850447E+03

2.635076640E+03

9.949009856E+02

4.133760494E+02

1.859036743E+02

8.900332368E+01

4.461680211E+01

2.303366206E+01

1.204476287E+01

6.274839246E+00

3.203128894E+00

1.575839788E+00

7.348757528E-01

3.195055153E-01

1.273807377E-01

4.580242726E-02

$ f-type functions

12 0 0

3.141936420E+02

1.292530954E+02

5.668323094E+01

2.610001359E+01

1.242801501E+01

6.027540140E+00

2.932636039E+00

1.409802721E+00

6.595429015E-01

2.957431487E-01

1.251917406E-01

4.927520205E-02

$ g-type functions

5 0 0

1.204476287E+01

6.274839246E+00

3.203128894E+00

1.575839788E+00

7.348757528E-01

$ h-type functions

2 0 0

6.027540140E+00

2.932636039E+00

a 64

$ Gd (Gadolinium)

$ s-type functions

31 0 0

1.713671853E+08

4.630040864E+07

1.374712740E+07

4.457498385E+06

1.568572747E+06

5.952981043E+05

2.421379317E+05

1.048991048E+05

4.809982435E+04

2.319850960E+04

1.169509337E+04

6.124299892E+03

3.310552507E+03

1.835768521E+03

1.037745583E+03

5.942942603E+02

3.426351986E+02

1.976352208E+02

1.133393634E+02

6.421897707E+01

3.572681628E+01

1.939347787E+01

1.020774144E+01

5.177240412E+00

2.514454864E+00

1.162112912E+00

5.079183571E-01

2.086232580E-01

8.002706674E-02

2.849040127E-02

9.354699802E-03

$ p-type functions

23 0 0

1.385841396E+07

2.757118722E+06

6.358910174E+05

1.679472284E+05

5.017686950E+04

1.675145354E+04

6.173014364E+03

2.480364896E+03

1.073457874E+03

4.942915874E+02

2.392146969E+02

1.201922780E+02

6.193369421E+01

3.233082289E+01

1.688976193E+01

8.722177822E+00

4.398439541E+00

2.139549019E+00

9.916842645E-01

4.326431308E-01

1.754967407E-01

6.538359445E-02

2.210073241E-02

$ d-type functions

16 0 0

8.163200583E+03

2.559944230E+03

9.221641680E+02

3.732769757E+02

1.660874821E+02

7.946261555E+01

3.998955628E+01

2.070740162E+01

1.079288224E+01

5.538849927E+00

2.737849707E+00

1.275102137E+00

5.473476085E-01

2.118370285E-01

7.231001380E-02

2.129562783E-02

$ f-type functions

12 0 0

4.313300740E+02

1.840308903E+02

8.264134856E+01

3.863836863E+01

1.860561036E+01

9.127710384E+00

4.512961290E+00

2.224499066E+00

1.081341190E+00

5.127931321E-01

2.346711088E-01

1.025189286E-01

$ g-type functions

5 0 0

5.538849927E+00

2.737849707E+00

1.275102137E+00

5.473476085E-01

2.118370285E-01

$ h-type functions

2 0 0

2.224499066E+00

1.081341190E+00

a 65

$ Tb (Terbium)

$ s-type functions

31 0 0

1.690551753E+08

4.398733482E+07

1.263577992E+07

3.981411106E+06

1.367155460E+06

5.083116069E+05

2.033100001E+05

8.691392925E+04

3.945547697E+04

1.889721580E+04

9.487380070E+03

4.960644079E+03

2.683851426E+03

1.492769821E+03

8.480599182E+02

4.889279721E+02

2.842059904E+02

1.654919632E+02

9.590942032E+01

5.496315359E+01

3.094520610E+01

1.700637754E+01

9.063841322E+00

4.654576295E+00

2.288235587E+00

1.069939894E+00

4.727607691E-01

1.961246696E-01

7.589568851E-02

2.721957950E-02

8.988981479E-03

$ p-type functions

23 0 0

1.492826638E+07

2.936009189E+06

6.702983935E+05

1.754670133E+05

5.202272888E+04

1.725499825E+04

6.324331952E+03

2.530149282E+03

1.091347830E+03

5.013252636E+02

2.422529945E+02

1.216369950E+02

6.268490611E+01

3.275026731E+01

1.713464433E+01

8.867424887E+00

4.483693586E+00

2.187983883E+00

1.017831533E+00

4.458462087E-01

1.816458378E-01

6.799090536E-02

2.309484231E-02

$ d-type functions

16 0 0

9.775593468E+03

3.124141483E+03

1.138852299E+03

4.643215893E+02

2.076111782E+02

9.982253313E+01

5.060786944E+01

2.652679325E+01

1.409594829E+01

7.445816119E+00

3.833578807E+00

1.886410393E+00

8.699079071E-01

3.686220462E-01

1.407427000E-01

4.747583512E-02

$ f-type functions

12 0 0

5.092038278E+02

2.029714741E+02

8.760969582E+01

4.019878407E+01

1.924806142E+01

9.441568908E+00

4.657514199E+00

2.268228560E+00

1.070561954E+00

4.807274446E-01

2.016127094E-01

7.752442090E-02

$ g-type functions

5 0 0

1.409594829E+01

7.445816119E+00

3.833578807E+00

1.886410393E+00

8.699079071E-01

$ h-type functions

2 0 0

9.441568908E+00

4.657514199E+00

a 66

$ Dy (Dysprosium)

$ s-type functions

31 0 0

1.701857069E+08

4.416412348E+07

1.265715733E+07

3.980159922E+06

1.364395872E+06

5.065631013E+05

2.023754084E+05

8.643521272E+04

3.921120629E+04

1.877128407E+04

9.421494349E+03

4.925670800E+03

2.665069292E+03

1.482609944E+03

8.425551609E+02

4.859600399E+02

2.826254756E+02

1.646676679E+02

9.549252891E+01

5.476110921E+01

3.085280181E+01

1.696735959E+01

9.049174234E+00

4.650037103E+00

2.287359451E+00

1.070090970E+00

4.730347137E-01

1.963039813E-01

7.598130263E-02

2.725233030E-02

8.999069068E-03

$ p-type functions

23 0 0

1.436689710E+07

2.818594371E+06

6.420070030E+05

1.677015844E+05

4.962235945E+04

1.642907562E+04

6.011695151E+03

2.401493982E+03

1.034473612E+03

4.746388918E+02

2.291215008E+02

1.149422298E+02

5.919121688E+01

3.090661385E+01

1.616273006E+01

8.361800061E+00

4.227262652E+00

2.062745793E+00

9.596477302E-01

4.204460269E-01

1.713537356E-01

6.416739977E-02

2.180848389E-02

$ d-type functions

16 0 0

1.065705362E+04

3.336605330E+03

1.195738603E+03

4.808082674E+02

2.126436462E+02

1.013953980E+02

5.109871400E+01

2.667891300E+01

1.414598744E+01

7.466996098E+00

3.846330884E+00

1.895291276E+00

8.757384756E-01

3.719483073E-01

1.423445923E-01

4.811606825E-02

$ f-type functions

12 0 0

4.205025022E+02

1.706711037E+02

7.476953295E+01

3.471998835E+01

1.678192126E+01

8.291401888E+00

4.112021771E+00

2.010207876E+00

9.512652543E-01

4.279119062E-01

1.796867910E-01

6.916779868E-02

$ g-type functions

5 0 0

1.414598744E+01

7.466996098E+00

3.846330884E+00

1.895291276E+00

8.757384756E-01

$ h-type functions

2 0 0

8.291401888E+00

4.112021771E+00

a 67

$ Ho (Holmium)

$ s-type functions

31 0 0

1.694621245E+08

4.340862049E+07

1.230174031E+07

3.831645861E+06

1.303087002E+06

4.806973301E+05

1.910826514E+05

8.131357664E+04

3.679917912E+04

1.759492677E+04

8.829824411E+03

4.620329479E+03

2.504327405E+03

1.396842855E+03

7.964954242E+02

4.612531174E+02

2.694986804E+02

1.578251736E+02

9.203207574E+01

5.308679088E+01

3.009255388E+01

1.665320944E+01

8.938078592E+00

4.622093505E+00

2.287824057E+00

1.076804496E+00

4.787650564E-01

1.997654517E-01

7.770906347E-02

2.799737599E-02

9.281076457E-03

$ p-type functions

23 0 0

1.367774085E+07

2.718206220E+06

6.263434920E+05

1.653043868E+05

4.936024839E+04

1.647293359E+04

6.069385437E+03

2.438811049E+03

1.055724889E+03

4.863422990E+02

2.355220152E+02

1.184400718E+02

6.109743931E+01

3.193625997E+01

1.670941734E+01

8.644388328E+00

4.367998162E+00

2.129537773E+00

9.895152154E-01

4.328857992E-01

1.761235542E-01

6.583158141E-02

2.233075391E-02

$ d-type functions

16 0 0

1.076046342E+04

3.416808552E+03

1.236196284E+03

4.998072270E+02

2.214813339E+02

1.055024201E+02

5.298459232E+01

2.751502095E+01

1.449086683E+01

7.590918723E+00

3.879189247E+00

1.896729655E+00

8.702798618E-01

3.675129596E-01

1.400934395E-01

4.727870199E-02

$ f-type functions

12 0 0

4.260316537E+02

1.746420740E+02

7.708270062E+01

3.598343492E+01

1.745109141E+01

8.636812138E+00

4.284813092E+00

2.093121533E+00

9.889578632E-01

4.439341292E-01

1.859744616E-01

7.141981810E-02

$ g-type functions

5 0 0

1.449086683E+01

7.590918723E+00

3.879189247E+00

1.896729655E+00

8.702798618E-01

$ h-type functions

2 0 0

8.636812138E+00

4.284813092E+00

a 68

$ Er (Erbium)

$ s-type functions

31 0 0

1.686601656E+08

4.286536604E+07

1.206264733E+07

3.733842594E+06

1.262937511E+06

4.637195473E+05

1.836165522E+05

7.789083140E+04

3.516528469E+04

1.678535089E+04

8.415315457E+03

4.402194915E+03

2.387053909E+03

1.332859832E+03

7.613269916E+02

4.419342599E+02

2.589876237E+02

1.522195556E+02

8.913888311E+01

5.166595097E+01

2.944539394E+01

1.639234983E+01

8.855460766E+00

4.611714556E+00

2.300012420E+00

1.091313812E+00

4.893910610E-01

2.060556484E-01

8.092269305E-02

2.944751449E-02

9.864036615E-03

$ p-type functions

23 0 0

1.519063382E+07

2.995577566E+06

6.852819950E+05

1.796420859E+05

5.330436955E+04

1.768477039E+04

6.480132276E+03

2.590490987E+03

1.115989241E+03

5.117803130E+02

2.467849822E+02

1.236036804E+02

6.351664319E+01

3.307905336E+01

1.724622092E+01

8.891521707E+00

4.477807872E+00

2.175845080E+00

1.007696096E+00

4.393758791E-01

1.781614809E-01

6.636335328E-02

2.243084711E-02

$ d-type functions

16 0 0

1.022804216E+04

3.251031433E+03

1.180358384E+03

4.798481771E+02

2.141037275E+02

1.027799033E+02

5.203420901E+01

2.723326200E+01

1.444353522E+01

7.609281614E+00

3.903402183E+00

1.911197698E+00

8.755153699E-01

3.678332315E-01

1.389313821E-01

4.624290765E-02

$ f-type functions

12 0 0

4.810157991E+02

1.961000236E+02

8.616533139E+01

4.006951590E+01

1.936476578E+01

9.550300247E+00

4.719743861E+00

2.295125653E+00

1.078378299E+00

4.807313585E-01

1.996596975E-01

7.586212663E-02

$ g-type functions

5 0 0

1.444353522E+01

7.609281614E+00

3.903402183E+00

1.911197698E+00

8.755153699E-01

$ h-type functions

2 0 0

9.550300247E+00

4.719743861E+00

a 69

$ Tm (Thulium)

$ s-type functions

31 0 0

1.690532079E+08

4.299514555E+07

1.210227324E+07

3.745561724E+06

1.266252709E+06

4.645454298E+05

1.837347583E+05

7.783245513E+04

3.508224402E+04

1.671560802E+04

8.364040382E+03

4.366366067E+03

2.362572780E+03

1.316322274E+03

7.502434218E+02

4.345663006E+02

2.541409958E+02

1.490765020E+02

8.713856328E+01

5.042306978E+01

2.869569883E+01

1.595599591E+01

8.611951288E+00

4.482297742E+00

2.234972985E+00

1.060638151E+00

4.759228445E-01

2.006001024E-01

7.890453982E-02

2.877398583E-02

9.664429070E-03

$ p-type functions

23 0 0

1.353755374E+07

2.705319858E+06

6.268269939E+05

1.663397704E+05

4.993815970E+04

1.675427702E+04

6.205035412E+03

2.505860810E+03

1.090014872E+03

5.044747059E+02

2.453841761E+02

1.239146312E+02

6.417061398E+01

3.366325167E+01

1.767058345E+01

9.168311562E+00

4.644512955E+00

2.269196098E+00

1.056218097E+00

4.626511008E-01

1.883825657E-01

7.043420547E-02

2.388641811E-02

$ d-type functions

16 0 0

1.121380252E+04

3.471149164E+03

1.232828837E+03

4.923200683E+02

2.166275329E+02

1.029217687E+02

5.174095177E+01

2.697126298E+01

1.428610916E+01

7.534918659E+00

3.877941098E+00

1.908481687E+00

8.801263971E-01

3.727163723E-01

1.420346746E-01

4.773081944E-02

$ f-type functions

12 0 0

4.933650201E+02

2.036727886E+02

9.033005444E+01

4.224827530E+01

2.045530645E+01

1.006389581E+01

4.938922968E+00

2.373270250E+00

1.096109149E+00

4.776336522E-01

1.927584316E-01

7.072159445E-02

$ g-type functions

5 0 0

1.428610916E+01

7.534918659E+00

3.877941098E+00

1.908481687E+00

8.801263971E-01

$ h-type functions

2 0 0

1.006389581E+01

4.938922968E+00

a 70

$ Yb (Ytterbium)

$ s-type functions

31 0 0

1.684530008E+08

4.018834698E+07

1.070110065E+07

3.158141601E+06

1.025835024E+06

3.641951439E+05

1.403361031E+05

5.828425357E+04

2.590881554E+04

1.224126509E+04

6.104574535E+03

3.190823501E+03

1.735946662E+03

9.761669862E+02

5.634221648E+02

3.314619977E+02

1.973747043E+02

1.181340531E+02

7.057526381E+01

4.179185408E+01

2.435905414E+01

1.387799688E+01

7.674651491E+00

4.090948231E+00

2.087327896E+00

1.012340644E+00

4.634468155E-01

1.988741305E-01

7.943827007E-02

2.933069032E-02

9.940855101E-03

$ p-type functions

23 0 0

1.642668890E+07

3.310566236E+06

7.700728135E+05

2.043103421E+05

6.109838750E+04

2.035175064E+04

7.462050991E+03

2.976122861E+03

1.275943642E+03

5.811013832E+02

2.778202489E+02

1.377904890E+02

7.005993558E+01

3.608836125E+01

1.861072593E+01

9.495328153E+00

4.736515300E+00

2.282769181E+00

1.050439237E+00

4.560763345E-01

1.846348150E-01

6.887330087E-02

2.339382481E-02

$ d-type functions

16 0 0

1.189615062E+04

3.656012412E+03

1.290997690E+03

5.131039450E+02

2.248499606E+02

1.064224713E+02

5.329327561E+01

2.766021351E+01

1.457565799E+01

7.638987972E+00

3.900533280E+00

1.900807524E+00

8.660117377E-01

3.613486066E-01

1.352668725E-01

4.450045593E-02

$ f-type functions

12 0 0

4.710253235E+02

1.929199564E+02

8.455516396E+01

3.898370751E+01

1.858472365E+01

9.005523830E+00

4.360052285E+00

2.073262062E+00

9.518016014E-01

4.146850026E-01

1.685465376E-01

6.282042795E-02

$ g-type functions

5 0 0

1.457565799E+01

7.638987972E+00

3.900533280E+00

1.900807524E+00

8.660117377E-01

$ h-type functions

2 0 0

9.005523830E+00

4.360052285E+00

a 71

$ Lu (Lutetium)

$ s-type functions

30 0 0

4.085370609E+08

9.995341697E+07

2.715733446E+07

8.138323089E+06

2.671627988E+06

9.542129206E+05

3.682797442E+05

1.525487258E+05

6.735541682E+04

3.148506861E+04

1.547532977E+04

7.943525860E+03

4.229215625E+03

2.319607133E+03

1.301703633E+03

7.423143428E+02

4.272446382E+02

2.464980027E+02

1.415901960E+02

8.042127165E+01

4.486024534E+01

2.440845487E+01

1.286594965E+01

6.525312318E+00

3.162668220E+00

1.454902274E+00

6.309237089E-01

2.561637602E-01

9.671444162E-02

3.372350807E-02

$ p-type functions

24 0 0

2.029389073E+07

4.122821908E+06

9.668915279E+05

2.588291998E+05

7.819869987E+04

2.636543593E+04

9.808846862E+03

3.981502008E+03

1.743493464E+03

8.143976677E+02

4.012305051E+02

2.061536396E+02

1.092260228E+02

5.900620702E+01

3.213691282E+01

1.744792963E+01

9.337171830E+00

4.869864950E+00

2.447637022E+00

1.172206302E+00

5.289156840E-01

2.223272045E-01

8.608370498E-02

3.035777150E-02

$ d-type functions

18 0 0

1.464842357E+04

5.343492749E+03

2.130929377E+03

9.175548485E+02

4.213313805E+02

2.037764634E+02

1.025256015E+02

5.299908481E+01

2.780172878E+01

1.461679885E+01

7.607105210E+00

3.870641138E+00

1.901745400E+00

8.911226256E-01

3.933216429E-01

1.615076675E-01

6.093727369E-02

2.086541940E-02

$ f-type functions

12 0 0

6.250352087E+02

2.477873290E+02

1.069567716E+02

4.936006082E+01

2.391469939E+01

1.194427065E+01

6.038699865E+00

3.034589732E+00

1.488376770E+00

6.996257291E-01

3.094869081E-01

1.265103457E-01

$ g-type functions

2 0 0

8.911226256E-01

3.933216429E-01

$ h-type functions

1 0 0

3.094869081E-01

a 72

$ Hf (Hafnium)

$ s-type functions

30 0 0

4.035098028E+08

1.005172537E+08

2.776336215E+07

8.445229483E+06

2.810100424E+06

1.015935763E+06

3.963763322E+05

1.657712732E+05

7.381318722E+04

3.475720182E+04

1.719114682E+04

8.871092838E+03

4.743781370E+03

2.611021853E+03

1.469256713E+03

8.395551510E+02

4.838694269E+02

2.793814542E+02

1.605167799E+02

9.115065910E+01

5.081345571E+01

2.762105277E+01

1.454143737E+01

7.364497078E+00

3.563777108E+00

1.636713598E+00

7.085860520E-01

2.872323124E-01

1.082823846E-01

3.770762539E-02

$ p-type functions

24 0 0

2.389384188E+07

4.933321907E+06

1.172481266E+06

3.172067955E+05

9.660648734E+04

3.275325476E+04

1.222486646E+04

4.967437347E+03

2.173083486E+03

1.012122987E+03

4.963181475E+02

2.534043910E+02

1.332147630E+02

7.130696327E+01

3.843350715E+01

2.062736279E+01

1.090159735E+01

5.610562865E+00

2.780671715E+00

1.312432938E+00

5.833722465E-01

2.414975744E-01

9.207363161E-02

3.197204309E-02

$ d-type functions

18 0 0

1.544031849E+04

5.670906560E+03

2.266611012E+03

9.746514615E+02

4.457476872E+02

2.143462301E+02

1.071393895E+02

5.503115478E+01

2.871532934E+01

1.504819009E+01

7.829600488E+00

3.998520969E+00

1.981450240E+00

9.419124877E-01

4.246206456E-01

1.794627837E-01

7.029913983E-02

2.523175822E-02

$ f-type functions

12 0 0

8.060066282E+02

3.095669662E+02

1.325338695E+02

6.171960444E+01

3.050781470E+01

1.561918956E+01

8.082264177E+00

4.124795846E+00

2.025976790E+00

9.345376106E-01

3.950546102E-01

1.493424377E-01

$ g-type functions

2 0 0

9.419124877E-01

4.246206456E-01

$ h-type functions

1 0 0

3.950546102E-01

a 73

$ Ta (Tantalum)

$ s-type functions

30 0 0

4.029653741E+08

9.938239359E+07

2.719682560E+07

8.202873159E+06

2.708474590E+06

9.724482495E+05

3.771057637E+05

1.568869260E+05

6.955193604E+04

3.263642301E+04

1.610047609E+04

8.294490067E+03

4.432282645E+03

2.440191782E+03

1.374836976E+03

7.873741509E+02

4.552875570E+02

2.640201435E+02

1.525130379E+02

8.717008760E+01

4.896554231E+01

2.685024205E+01

1.427619151E+01

7.310633692E+00

3.581361447E+00

1.667107983E+00

7.324428239E-01

3.016825014E-01

1.157083981E-01

4.104780935E-02

$ p-type functions

24 0 0

2.543187682E+07

5.384181130E+06

1.307452284E+06

3.601873342E+05

1.113419683E+05

3.819870912E+04

1.438564305E+04

5.882096434E+03

2.582787845E+03

1.204565796E+03

5.901861123E+02

3.004661668E+02

1.572105783E+02

8.361400346E+01

4.471145484E+01

2.377565998E+01

1.243517277E+01

6.327148027E+00

3.097651541E+00

1.443301256E+00

6.330131688E-01

2.584825883E-01

9.719503994E-02

3.328761174E-02

$ d-type functions

18 0 0

1.976028565E+04

6.791827243E+03

2.577011130E+03

1.065516102E+03

4.739097095E+02

2.238210202E+02

1.108035354E+02

5.675859739E+01

2.969701441E+01

1.566660272E+01

8.226130309E+00

4.243779988E+00

2.123364076E+00

1.017157503E+00

4.604917922E-01

1.944927122E-01

7.565024380E-02

2.674980986E-02

$ f-type functions

12 0 0

9.868407748E+02

3.859490338E+02

1.662537720E+02

7.718107692E+01

3.778218218E+01

1.908267347E+01

9.729857447E+00

4.900359179E+00

2.385297907E+00

1.097968090E+00

4.676363776E-01

1.803173162E-01

$ g-type functions

2 0 0

1.017157503E+00

4.604917922E-01

$ h-type functions

1 0 0

4.676363776E-01

a 74

$ W (Tungsten)

$ s-type functions

30 0 0

4.030568474E+08

1.009191594E+08

2.802465760E+07

8.572617053E+06

2.869062423E+06

1.043439044E+06

4.095828172E+05

1.723498784E+05

7.721859371E+04

3.658655316E+04

1.820777397E+04

9.453116428E+03

5.085375235E+03

2.815450469E+03

1.593296922E+03

9.154118468E+02

5.303399858E+02

3.077211146E+02

1.776120179E+02

1.012853363E+02

5.667963214E+01

3.091439421E+01

1.632280434E+01

8.286596137E+00

4.017463898E+00

1.847435357E+00

8.003409255E-01

3.244265233E-01

1.222194375E-01

4.250048208E-02

$ p-type functions

24 0 0

2.364696750E+07

4.850572999E+06

1.147948769E+06

3.099260157E+05

9.438300882E+04

3.205708691E+04

1.200723296E+04

4.903934459E+03

2.159351835E+03

1.013615840E+03

5.015206119E+02

2.586210063E+02

1.374335023E+02

7.441653262E+01

4.059648573E+01

2.206194698E+01

1.180945384E+01

6.156594684E+00

3.090795564E+00

1.477451244E+00

6.649108044E-01

2.785577010E-01

1.074144453E-01

3.769642328E-02

$ d-type functions

18 0 0

2.067899977E+04

7.127031836E+03

2.722426016E+03

1.136755749E+03

5.117258856E+02

2.449414224E+02

1.229524466E+02

6.383482529E+01

3.380797825E+01

1.801429301E+01

9.524610147E+00

4.928385002E+00

2.461415589E+00

1.170263435E+00

5.223915727E-01

2.159324910E-01

8.151632680E-02

2.771861022E-02

$ f-type functions

12 0 0

8.966095057E+02

3.633872962E+02

1.616795926E+02

7.733277626E+01

3.894025525E+01

2.021457660E+01

1.059412357E+01

5.489133782E+00

2.753498596E+00

1.309519688E+00

5.782147957E-01

2.321240989E-01

$ g-type functions

2 0 0

1.170263435E+00

5.223915727E-01

$ h-type functions

1 0 0

5.782147957E-01

a 75

$ Re (Rhenium)

$ s-type functions

30 0 0

4.069415178E+08

1.043096748E+08

2.958259343E+07

9.220427258E+06

3.137278546E+06

1.157514475E+06

4.599971955E+05

1.955795417E+05

8.837211241E+04

4.215166220E+04

2.108171392E+04

1.098178539E+04

5.918339855E+03

3.277712404E+03

1.852976322E+03

1.062138278E+03

6.131807356E+02

3.541410569E+02

2.032490275E+02

1.151407830E+02

6.395322813E+01

3.459492856E+01

1.810352579E+01

9.103297509E+00

4.369213199E+00

1.988203124E+00

8.520309401E-01

3.415632707E-01

1.272307918E-01

4.374240427E-02

$ p-type functions

24 0 0

2.512951096E+07

5.195680795E+06

1.237379184E+06

3.356686553E+05

1.025680576E+05

3.491021737E+04

1.308813524E+04

5.344825296E+03

2.351069642E+03

1.101588599E+03

5.436771125E+02

2.794963032E+02

1.480028930E+02

7.983056089E+01

4.337292546E+01

2.347278012E+01

1.251273781E+01

6.497224565E+00

3.249651960E+00

1.548192582E+00

6.947650982E-01

2.904167118E-01

1.118205268E-01

3.921782490E-02

$ d-type functions

18 0 0

1.907989292E+04

6.303795739E+03

2.342123823E+03

9.636372504E+02

4.323423773E+02

2.082893287E+02

1.061074093E+02

5.628314635E+01

3.061113828E+01

1.680983828E+01

9.177936003E+00

4.906123063E+00

2.528472662E+00

1.237140397E+00

5.658940202E-01

2.382983861E-01

9.096859063E-02

3.099992832E-02

$ f-type functions

12 0 0

1.033779018E+03

4.089086405E+02

1.788546262E+02

8.463618080E+01

4.239362951E+01

2.199077213E+01

1.155799138E+01

6.021891640E+00

3.042978350E+00

1.459105914E+00

6.495363727E-01

2.626367583E-01

$ g-type functions

2 0 0

1.237140397E+00

5.658940202E-01

$ h-type functions

1 0 0

6.495363727E-01

a 76

$ Os (Osmium)

$ s-type functions

30 0 0

4.086310495E+08

1.011921401E+08

2.783375253E+07

8.445672772E+06

2.807774293E+06

1.015742293E+06

3.971240807E+05

1.666549431E+05

7.455682618E+04

3.531521105E+04

1.759014123E+04

9.150354480E+03

4.937368348E+03

2.744543391E+03

1.560952123E+03

9.021565730E+02

5.262293321E+02

3.076783453E+02

1.790917172E+02

1.030715260E+02

5.825248974E+01

3.210929757E+01

1.714413548E+01

8.806367243E+00

4.322175109E+00

2.013076282E+00

8.836867838E-01

3.631154159E-01

1.387161923E-01

4.892983167E-02

$ p-type functions

24 0 0

2.779355678E+07

5.713911184E+06

1.355101552E+06

3.665684720E+05

1.118353739E+05

3.804871617E+04

1.427359791E+04

5.837883945E+03

2.573960706E+03

1.209675083E+03

5.991724462E+02

3.092766395E+02

1.644941652E+02

8.913697318E+01

4.865922440E+01

2.645868806E+01

1.416978184E+01

7.390020876E+00

3.711177441E+00

1.774423321E+00

7.986897779E-01

3.346341793E-01

1.290415765E-01

4.528476560E-02

$ d-type functions

18 0 0

2.949572348E+04

9.060376450E+03

3.164681096E+03

1.236689001E+03

5.319712894E+02

2.478354083E+02

1.230371588E+02

6.404088535E+01

3.438561287E+01

1.873893629E+01

1.019793261E+01

5.452914563E+00

2.818674430E+00

1.385833706E+00

6.376430357E-01

2.701436306E-01

1.036842450E-01

3.547170362E-02

$ f-type functions

12 0 0

1.080012686E+03

4.039400774E+02

1.702401381E+02

7.888949721E+01

3.922327892E+01

2.041697340E+01

1.085717565E+01

5.755402161E+00

2.967721023E+00

1.452493953E+00

6.584226020E-01

2.697426018E-01

$ g-type functions

2 0 0

1.385833706E+00

6.376430357E-01

$ h-type functions

1 0 0

1.452493953E+00

a 77

$ Ir (Iridium)

$ s-type functions

30 0 0

4.073057026E+08

1.000535733E+08

2.732287892E+07

8.237862313E+06

2.723386582E+06

9.804449794E+05

3.817409989E+05

1.596461704E+05

7.122046447E+04

3.366046964E+04

1.673852130E+04

8.697772262E+03

4.690352422E+03

2.606885137E+03

1.483097726E+03

8.577516661E+02

5.008524196E+02

2.932424656E+02

1.709721233E+02

9.858652983E+01

5.583623974E+01

3.084846301E+01

1.651133383E+01

8.503045869E+00

4.184302727E+00

1.954071097E+00

8.600798808E-01

3.543487100E-01

1.357153713E-01

4.798945460E-02

$ p-type functions

24 0 0

2.897100048E+07

5.809391499E+06

1.347405577E+06

3.573677231E+05

1.071594170E+05

3.591634516E+04

1.330299574E+04

5.383330373E+03

2.353128393E+03

1.098454239E+03

5.413882335E+02

2.785318724E+02

1.478866502E+02

8.011609555E+01

4.378204625E+01

2.386198425E+01

1.282330636E+01

6.717770911E+00

3.391804511E+00

1.631795136E+00

7.395684842E-01

3.121891771E-01

1.213480270E-01

4.294096203E-02

$ d-type functions

18 0 0

2.622620477E+04

8.065785105E+03

2.830235468E+03

1.114478071E+03

4.843974358E+02

2.285713570E+02

1.151701028E+02

6.094863617E+01

3.331983430E+01

1.850821734E+01

1.027442624E+01

5.606477849E+00

2.957811543E+00

1.483908282E+00

6.963187698E-01

3.005951317E-01

1.174185990E-01

4.082077727E-02

$ f-type functions

12 0 0

9.586109805E+02

3.683769739E+02

1.591151033E+02

7.535830800E+01

3.817540295E+01

2.017905530E+01

1.085712138E+01

5.800389666E+00

3.001651125E+00

1.467762463E+00

6.615700121E-01

2.681342361E-01

$ g-type functions

2 0 0

1.483908282E+00

6.963187698E-01

$ h-type functions

1 0 0

1.467762463E+00

a 78

$ Pt (Platinum)

$ s-type functions

30 0 0

4.025108442E+08

1.003914263E+08

2.778631465E+07

8.476734815E+06

2.830985240E+06

1.028030527E+06

4.031640990E+05

1.695950475E+05

7.600601970E+04

3.604411457E+04

1.796471443E+04

9.346605170E+03

5.041771234E+03

2.800632165E+03

1.591185247E+03

9.183858563E+02

5.348320685E+02

3.121372068E+02

1.813249324E+02

1.041361292E+02

5.872530711E+01

3.229811373E+01

1.720699595E+01

8.819765237E+00

4.319973704E+00

2.008284923E+00

8.801115824E-01

3.611323272E-01

1.378031850E-01

4.856959039E-02

$ p-type functions

24 0 0

2.521709505E+07

5.257627178E+06

1.261105378E+06

3.441717265E+05

1.056955215E+05

3.612359174E+04

1.358856421E+04

5.564163505E+03

2.452817436E+03

1.151237576E+03

5.689766444E+02

2.928525676E+02

1.552473183E+02

8.383300122E+01

4.560548923E+01

2.471870888E+01

1.320189782E+01

6.871384221E+00

3.447027459E+00

1.648288611E+00

7.430279300E-01

3.122883248E-01

1.210264923E-01

4.277348102E-02

$ d-type functions

18 0 0

2.983846478E+04

8.927434537E+03

3.061904062E+03

1.183435768E+03

5.067100459E+02

2.362705279E+02

1.179419504E+02

6.195969614E+01

3.367487371E+01

1.861366519E+01

1.028633227E+01

5.586829682E+00

2.931703526E+00

1.461160438E+00

6.799429902E-01

2.904138609E-01

1.119195428E-01

3.825707511E-02

$ f-type functions

12 0 0

1.006934451E+03

3.841434327E+02

1.645807917E+02

7.724147202E+01

3.873465887E+01

2.024505065E+01

1.075722064E+01

5.668073872E+00

2.888798712E+00

1.389112936E+00

6.147357389E-01

2.442092674E-01

$ g-type functions

2 0 0

1.461160438E+00

6.799429902E-01

$ h-type functions

1 0 0

1.389112936E+00

a 79

$ Au (Gold)

$ s-type functions

30 0 0

4.077830191E+08

1.010482232E+08

2.781034561E+07

8.442953849E+06

2.808179948E+06

1.016319144E+06

3.975045430E+05

1.668756881E+05

7.468187101E+04

3.538674543E+04

1.763199807E+04

9.175507159E+03

4.952887142E+03

2.754347650E+03

1.567267807E+03

9.062832823E+02

5.289482541E+02

3.094731921E+02

1.802709192E+02

1.038372716E+02

5.874054675E+01

3.241245944E+01

1.732636416E+01

8.911616811E+00

4.380173861E+00

2.043356472E+00

8.985599018E-01

3.699407760E-01

1.416223541E-01

5.007004900E-02

$ p-type functions

24 0 0

2.655938944E+07

5.538783723E+06

1.328954856E+06

3.628284947E+05

1.114766015E+05

3.812001514E+04

1.434845885E+04

5.879442313E+03

2.593830137E+03

1.218476867E+03

6.027805629E+02

3.105726607E+02

1.648257552E+02

8.911291103E+01

4.854066586E+01

2.634609216E+01

1.409184636E+01

7.346096758E+00

3.691290951E+00

1.768188809E+00

7.985526578E-01

3.362783289E-01

1.305901551E-01

4.625237812E-02

$ d-type functions

18 0 0

2.945225745E+04

9.011200977E+03

3.152846805E+03

1.240026481E+03

5.389130971E+02

2.544005214E+02

1.282273087E+02

6.783567019E+01

3.702563940E+01

2.049583707E+01

1.131095280E+01

6.117231963E+00

3.187019553E+00

1.572317754E+00

7.220603740E-01

3.034143382E-01

1.146779376E-01

3.832274640E-02

$ f-type functions

12 0 0

8.572354967E+02

3.339664579E+02

1.459968492E+02

6.984674979E+01

3.566441980E+01

1.895546858E+01

1.022747540E+01

5.463375835E+00

2.817971411E+00

1.368734195E+00

6.105663114E-01

2.439506065E-01

$ g-type functions

2 0 0

1.572317754E+00

7.220603740E-01

$ h-type functions

1 0 0

1.368734195E+00

a 80

$ Hg (Mercury)

$ s-type functions

30 0 0

4.082595892E+08

1.020218335E+08

2.830329863E+07

8.657800273E+06

2.900307411E+06

1.056783060E+06

4.159799276E+05

1.756883683E+05

7.907462234E+04

3.766986873E+04

1.886484891E+04

9.864025359E+03

5.348549680E+03

2.987020986E+03

1.706476374E+03

9.905158581E+02

5.801778088E+02

3.405953403E+02

1.990368910E+02

1.149966333E+02

6.524281967E+01

3.610071047E+01

1.934967108E+01

9.978048635E+00

4.916671790E+00

2.299268941E+00

1.013539458E+00

4.182763049E-01

1.605081020E-01

5.688282163E-02

$ p-type functions

24 0 0

2.519545305E+07

5.216082410E+06

1.245938840E+06

3.395209340E+05

1.043617821E+05

3.577742321E+04

1.352560863E+04

5.575352189E+03

2.477667776E+03

1.173698798E+03

5.860040434E+02

3.049035466E+02

1.634668880E+02

8.928738704E+01

4.912821414E+01

2.692402162E+01

1.453130165E+01

7.636815263E+00

3.864121519E+00

1.861262104E+00

8.438594296E-01

3.560623375E-01

1.382492782E-01

4.883915644E-02

$ d-type functions

18 0 0

3.096414137E+04

9.372516661E+03

3.255952821E+03

1.275788592E+03

5.541305326E+02

2.621997227E+02

1.328290857E+02

7.080256192E+01

3.902596240E+01

2.186055368E+01

1.222997603E+01

6.715850084E+00

3.557470810E+00

1.786490409E+00

8.358590525E-01

3.580902163E-01

1.380488938E-01

4.706613135E-02

$ f-type functions

12 0 0

1.206283892E+03

4.627868654E+02

1.971486389E+02

9.116005461E+01

4.472292273E+01

2.275555116E+01

1.173796723E+01

6.000169944E+00

2.971092049E+00

1.393052016E+00

6.045524717E-01

2.373738557E-01

$ g-type functions

2 0 0

1.786490409E+00

8.358590525E-01

$ h-type functions

1 0 0

1.393052016E+00

a 81

$ Tl (Thallium)

$ s-type functions

30 0 0

4.203934670E+08

9.580393377E+07

2.456968057E+07

7.037796450E+06

2.234740786E+06

7.807340288E+05

2.978494489E+05

1.231517166E+05

5.477297802E+04

2.600798419E+04

1.308560247E+04

6.924041843E+03

3.824166684E+03

2.188050549E+03

1.287222239E+03

7.727830746E+02

4.698960472E+02

2.872224238E+02

1.751618379E+02

1.057785189E+02

6.278046767E+01

3.634569067E+01

2.037111773E+01

1.097090824E+01

5.634668059E+00

2.739203885E+00

1.250958459E+00

5.326674541E-01

2.098922582E-01

7.596191414E-02

$ p-type functions

27 0 0

1.013261011E+08

2.377157293E+07

6.227506377E+06

1.807751708E+06

5.770060704E+05

2.009498328E+05

7.577208636E+04

3.069685162E+04

1.325836836E+04

6.058242418E+03

2.906110999E+03

1.452229975E+03

7.501790074E+02

3.975112210E+02

2.144062876E+02

1.168094407E+02

6.378511437E+01

3.464259071E+01

1.856947738E+01

9.748458720E+00

4.973565644E+00

2.447056726E+00

1.152160994E+00

5.151383855E-01

2.170325799E-01

8.549975957E-02

3.125305367E-02

$ d-type functions

18 0 0

3.589736183E+04

1.075674295E+04

3.694082372E+03

1.429931474E+03

6.135953780E+02

2.870664752E+02

1.440097034E+02

7.618776888E+01

4.180597099E+01

2.340056117E+01

1.314088053E+01

7.281288474E+00

3.915190722E+00

2.009249466E+00

9.678908691E-01

4.304332926E-01

1.737991258E-01

6.266527198E-02

$ f-type functions

13 0 0

1.317339294E+03

5.111787958E+02

2.213273832E+02

1.044616537E+02

5.250617311E+01

2.745793368E+01

1.459491761E+01

7.703428352E+00

3.944458086E+00

1.914184678E+00

8.600937886E-01

3.495791860E-01

1.255611822E-01

$ g-type functions

1 0 0

4.304332926E-01

a 82

$ Pb (Lead)

$ s-type functions

30 0 0

4.397170675E+08

9.997473321E+07

2.559639542E+07

7.324217259E+06

2.324661387E+06

8.122626549E+05

3.100943095E+05

1.283730494E+05

5.719510932E+04

2.721893522E+04

1.373196840E+04

7.288969106E+03

4.040111018E+03

2.320793982E+03

1.371254942E+03

8.271044789E+02

5.054582798E+02

3.106098744E+02

1.904901074E+02

1.157121720E+02

6.909670543E+01

4.025589955E+01

2.271003776E+01

1.231245135E+01

6.366954910E+00

3.116748947E+00

1.433431335E+00

6.147226521E-01

2.439669603E-01

8.893127398E-02

$ p-type functions

27 0 0

1.019329950E+08

2.424307453E+07

6.429845967E+06

1.887308537E+06

6.084210114E+05

2.137833946E+05

8.125342962E+04

3.315102053E+04

1.440884183E+04

6.621062958E+03

3.192142972E+03

1.602442396E+03

8.312228924E+02

4.421575472E+02

2.393594449E+02

1.308662256E+02

7.171294663E+01

3.908859342E+01

2.103170609E+01

1.108563187E+01

5.680641606E+00

2.808502525E+00

1.329481319E+00

5.980109735E-01

2.536559552E-01

1.006884068E-01

3.711947918E-02

$ d-type functions

18 0 0

3.909520062E+04

1.183891730E+04

4.096297745E+03

1.593069033E+03

6.850366165E+02

3.204067440E+02

1.603506574E+02

8.446827707E+01

4.607261713E+01

2.559711662E+01

1.424986303E+01

7.819416972E+00

4.160587464E+00

2.111660528E+00

1.005669482E+00

4.421002143E-01

1.764789964E-01

6.292811645E-02

$ f-type functions

13 0 0

1.266249494E+03

4.951314662E+02

2.162558019E+02

1.030231291E+02

5.227513482E+01

2.758816231E+01

1.478738220E+01

7.860939748E+00

4.047119330E+00

1.970514586E+00

8.860314326E-01

3.592759647E-01

1.282893156E-01

$ g-type functions

1 0 0

4.421002143E-01

a 83

$ Bi (Bismuth)

$ s-type functions

30 0 0

4.542592793E+08

1.041292784E+08

2.686682302E+07

7.743958349E+06

2.474809506E+06

8.703249831E+05

3.342803647E+05

1.391742409E+05

6.233820123E+04

2.981438929E+04

1.511132860E+04

8.055885715E+03

4.483185336E+03

2.584947184E+03

1.532629122E+03

9.274098978E+02

5.684397864E+02

3.502709588E+02

2.153572772E+02

1.311232074E+02

7.846807574E+01

4.580666798E+01

2.588901319E+01

1.405989966E+01

7.282117977E+00

3.570021231E+00

1.644183633E+00

7.060331797E-01

2.805588702E-01

1.023943125E-01

$ p-type functions

27 0 0

1.013470007E+08

2.418391061E+07

6.441078405E+06

1.900036971E+06

6.160158785E+05

2.178226976E+05

8.335865683E+04

3.426017803E+04

1.500634181E+04

6.951224996E+03

3.379124010E+03

1.710638208E+03

8.949081014E+02

4.800869778E+02

2.620822494E+02

1.444729247E+02

7.980341532E+01

4.383263997E+01

2.375581289E+01

1.260646323E+01

6.500139924E+00

3.231567327E+00

1.537162395E+00

6.942203083E-01

2.953934613E-01

1.175128672E-01

4.337164849E-02

$ d-type functions

18 0 0

3.945683354E+04

1.183262191E+04

4.062750518E+03

1.570811529E+03

6.726313670E+02

3.137354635E+02

1.567717911E+02

8.254188635E+01

4.503678412E+01

2.504558714E+01

1.396208497E+01

7.673772158E+00

4.089699887E+00

2.078654188E+00

9.909817718E-01

4.358389653E-01

1.739192931E-01

6.193200453E-02

$ f-type functions

13 0 0

1.331393026E+03

5.236688724E+02

2.298306427E+02

1.099069495E+02

5.592085304E+01

2.956100488E+01

1.585355746E+01

8.422902279E+00

4.329020543E+00

2.101724301E+00

9.412075872E-01

3.796505458E-01

1.346904903E-01

$ g-type functions

1 0 0

4.358389653E-01

a 84

$ Po (Polonium)

$ s-type functions

30 0 0

4.793529497E+08

1.150969767E+08

3.096165075E+07

9.262636091E+06

3.059102459E+06

1.107136056E+06

4.358671517E+05

1.852900438E+05

8.442935065E+04

4.093330951E+04

2.096046622E+04

1.125289612E+04

6.287320476E+03

3.629137519E+03

2.148208430E+03

1.294443786E+03

7.881745077E+02

4.813850605E+02

2.927470249E+02

1.759627150E+02

1.037709336E+02

5.960138103E+01

3.309490013E+01

1.763553355E+01

8.952359884E+00

4.297406985E+00

1.936395595E+00

8.130157483E-01

3.157328175E-01

1.125783841E-01

$ p-type functions

27 0 0

1.016177143E+08

2.562843242E+07

7.169640796E+06

2.208390701E+06

7.434264408E+05

2.714964165E+05

1.067664073E+05

4.487763988E+04

2.001385117E+04

9.399765583E+03

4.614976612E+03

2.351086100E+03

1.233657306E+03

6.618017820E+02

3.602874619E+02

1.975780109E+02

1.083369827E+02

5.895816447E+01

3.160972281E+01

1.657247449E+01

8.433821279E+00

4.135349447E+00

1.939238592E+00

8.633003366E-01

3.621467842E-01

1.420953407E-01

5.176401418E-02

$ d-type functions

18 0 0

4.442663091E+04

1.285917668E+04

4.307518835E+03

1.641049218E+03

6.987673251E+02

3.268107200E+02

1.649866798E+02

8.835406134E+01

4.932480294E+01

2.820990145E+01

1.624318942E+01

9.253600379E+00

5.125733528E+00

2.712959581E+00

1.348369121E+00

6.184272391E-01

2.572284028E-01

9.535333611E-02

$ f-type functions

13 0 0

1.367160272E+03

5.474848526E+02

2.428772741E+02

1.166999165E+02

5.937859308E+01

3.128036071E+01

1.668026294E+01

8.802988249E+00

4.495316152E+00

2.171701080E+00

9.704124086E-01

3.921352838E-01

1.401024038E-01

$ g-type functions

1 0 0

6.184272391E-01

a 85

$ At (Astatine)

$ s-type functions

30 0 0

4.995639590E+08

1.214680951E+08

3.304753792E+07

9.987133025E+06

3.328024118E+06

1.213933985E+06

4.811557931E+05

2.057204576E+05

9.418666659E+04

4.583957940E+04

2.354236793E+04

1.266592909E+04

7.086314477E+03

4.092788668E+03

2.422438822E+03

1.458612675E+03

8.869515277E+02

5.406940564E+02

3.280304661E+02

1.966105019E+02

1.155708367E+02

6.613903999E+01

3.658092387E+01

1.941143647E+01

9.810383217E+00

4.687687271E+00

2.102300145E+00

8.784424397E-01

3.394950668E-01

1.204687114E-01

$ p-type functions

27 0 0

1.024562876E+08

2.560347544E+07

7.111669722E+06

2.179141879E+06

7.310879445E+05

2.665341384E+05

1.048006761E+05

4.410951325E+04

1.972360530E+04

9.299403976E+03

4.588467045E+03

2.351541934E+03

1.242336842E+03

6.715161226E+02

3.685809494E+02

2.038907869E+02

1.128182905E+02

6.197371632E+01

3.354367136E+01

1.775487406E+01

9.121315159E+00

4.513974579E+00

2.135755114E+00

9.588781384E-01

4.054374977E-01

1.602366509E-01

5.874977040E-02

$ d-type functions

18 0 0

4.736452685E+04

1.360661431E+04

4.527344172E+03

1.714644286E+03

7.264106021E+02

3.383050242E+02

1.702132563E+02

9.092378277E+01

5.067588213E+01

2.896045419E+01

1.667747020E+01

9.510782598E+00

5.278422335E+00

2.801782000E+00

1.397807586E+00

6.441452608E-01

2.694536884E-01

1.005515726E-01

$ f-type functions

13 0 0

1.335057098E+03

5.475634642E+02

2.473267456E+02

1.203568356E+02

6.172975537E+01

3.264401190E+01

1.741240401E+01

9.164763005E+00

4.656419483E+00

2.234150222E+00

9.902916549E-01

3.967029237E-01

1.405012787E-01

$ g-type functions

1 0 0

6.441452608E-01

a 86

$ Rn (Radon)

$ s-type functions

30 0 0

5.121919362E+08

1.252581112E+08

3.426720124E+07

1.041051307E+07

3.486642512E+06

1.277925584E+06

5.088474838E+05

2.185116961E+05

1.004587574E+05

4.908491459E+04

2.530325945E+04

1.366136692E+04

7.668707409E+03

4.443053805E+03

2.637505879E+03

1.592497746E+03

9.708649210E+02

5.932728213E+02

3.607337895E+02

2.166591272E+02

1.275986313E+02

7.315010785E+01

4.052331086E+01

2.153460618E+01

1.089763045E+01

5.213284369E+00

2.340431945E+00

9.788292754E-01

3.785866368E-01

1.344287237E-01

$ p-type functions

27 0 0

1.021095499E+08

2.527747871E+07

6.965741266E+06

2.120662762E+06

7.078660091E+05

2.571047940E+05

1.008447863E+05

4.239214337E+04

1.895441750E+04

8.946087508E+03

4.423417844E+03

2.273994469E+03

1.206235064E+03

6.552244443E+02

3.617165017E+02

2.014054102E+02

1.122543073E+02

6.215391047E+01

3.392906993E+01

1.812249533E+01

9.399636817E+00

4.698461557E+00

2.246240741E+00

1.019336162E+00

4.357561881E-01

1.741562989E-01

6.458159887E-02

$ d-type functions

18 0 0

4.347487072E+04

1.249139075E+04

4.169838108E+03

1.588467206E+03

6.782701818E+02

3.188653755E+02

1.621089234E+02

8.754193739E+01

4.932303741E+01

2.847886353E+01

1.655196008E+01

9.511409824E+00

5.307913069E+00

2.825536386E+00

1.409259454E+00

6.468576413E-01

2.683916040E-01

9.887496657E-02

$ f-type functions

13 0 0

1.329749051E+03

5.507367179E+02

2.505258923E+02

1.224792061E+02

6.297094106E+01

3.331601106E+01

1.774874793E+01

9.316467477E+00

4.714879160E+00

2.251088251E+00

9.921653440E-01

3.950136283E-01

1.390091912E-01

$ g-type functions

1 0 0

6.468576413E-01

a 87

$ Fr (Francium)

$ s-type functions

33 0 0

2.665029829E+10

6.390127858E+09

1.643813957E+09

4.520424495E+08

1.324149482E+08

4.116933462E+07

1.353747032E+07

4.691112218E+06

1.707011945E+06

6.499314167E+05

2.579981144E+05

1.063974851E+05

4.542132738E+04

2.000090778E+04

9.052089068E+03

4.195705080E+03

1.984567667E+03

9.545078190E+02

4.651504968E+02

2.288525239E+02

1.132697497E+02

5.619736995E+01

2.784900322E+01

1.373544495E+01

6.718356136E+00

3.247269407E+00

1.545455232E+00

7.216475549E-01

3.294369178E-01

1.465026877E-01

6.324015443E-02

2.640353364E-02

1.062431125E-02

$ p-type functions

29 0 0

1.458276070E+08

3.364695407E+07

8.665555812E+06

2.473145623E+06

7.765393822E+05

2.663150737E+05

9.903858166E+04

3.965038521E+04

1.696612567E+04

7.703146414E+03

3.684357507E+03

1.842983515E+03

9.572054107E+02

5.124727554E+02

2.807865473E+02

1.563074303E+02

8.776850418E+01

4.935276075E+01

2.759026187E+01

1.522403395E+01

8.231730630E+00

4.330100504E+00

2.199926430E+00

1.071715784E+00

4.970159434E-01

2.178402726E-01

8.958620017E-02

3.431919465E-02

1.215861262E-02

$ d-type functions

19 0 0

7.355562405E+04

1.999142041E+04

6.352414676E+03

2.317968344E+03

9.540160582E+02

4.350001885E+02

2.158315022E+02

1.144558254E+02

6.371837645E+01

3.657642753E+01

2.126442798E+01

1.229781659E+01

6.949127155E+00

3.768482447E+00

1.926383628E+00

9.117277130E-01

3.924096516E-01

1.508594099E-01

5.088260998E-02

$ f-type functions

14 0 0

1.349564558E+03

5.608279959E+02

2.546015513E+02

1.237535463E+02

6.312325926E+01

3.311511274E+01

1.751209197E+01

9.149443860E+00

4.628775811E+00

2.222400299E+00

9.925057332E-01

4.040808468E-01

1.469934279E-01

4.682652033E-02

$ g-type functions

1 0 0

5.088260998E-02

a 88

$ Ra (Radium)

$ s-type functions

33 0 0

2.715164701E+10

6.457538911E+09

1.648476288E+09

4.500747417E+08

1.309526479E+08

4.045880761E+07

1.322581576E+07

4.558100498E+06

1.650208448E+06

6.253579017E+05

2.471694816E+05

1.015263715E+05

4.318392767E+04

1.895248298E+04

8.551695623E+03

3.952955654E+03

1.865162526E+03

8.951130639E+02

4.353585007E+02

2.138284681E+02

1.056756254E+02

5.236201838E+01

2.591979871E+01

1.277209110E+01

6.242362313E+00

3.015323836E+00

1.434360834E+00

6.695203589E-01

3.055564903E-01

1.358573183E-01

5.863808864E-02

2.448066779E-02

9.850422212E-03

$ p-type functions

29 0 0

2.016501905E+08

4.582418439E+07

1.162565044E+07

3.269127320E+06

1.011589042E+06

3.419792477E+05

1.253962049E+05

4.951350667E+04

2.090178031E+04

9.365453710E+03

4.422073561E+03

2.184441158E+03

1.120824547E+03

5.930392817E+02

3.212502548E+02

1.768818784E+02

9.828080212E+01

5.470980682E+01

3.029273301E+01

1.656357843E+01

8.879284349E+00

4.633140733E+00

2.336212815E+00

1.130197497E+00

5.207951837E-01

2.269425364E-01

9.284677540E-02

3.540669340E-02

1.249502669E-02

$ d-type functions

19 0 0

5.599421233E+04

1.590981923E+04

5.260437320E+03

1.988284544E+03

8.439192356E+02

3.951431709E+02

2.004956258E+02

1.082973258E+02

6.117282737E+01

3.549710601E+01

2.078674536E+01

1.206715193E+01

6.822026211E+00

3.689588117E+00

1.875270285E+00

8.799073009E-01

3.744230841E-01

1.419405680E-01

4.709060510E-02

$ f-type functions

14 0 0

1.294255719E+03

5.454393558E+02

2.502965386E+02

1.226285444E+02

6.289310286E+01

3.310819851E+01

1.754023964E+01

9.169576948E+00

4.637919893E+00

2.225377619E+00

9.932008439E-01

4.042683081E-01

1.471458198E-01

4.695892414E-02

$ g-type functions

1 0 0

1.419405680E-01

a 89

$ Ac (Actinium)

$ s-type functions

35 0 0

2.867092034E+09

6.248309545E+08

1.523625616E+08

4.130028516E+07

1.236377577E+07

4.061034734E+06

1.454032225E+06

5.638029351E+05

2.352127369E+05

1.048911314E+05

4.967356904E+04

2.481903266E+04

1.299814734E+04

7.088909130E+03

3.999842965E+03

2.319723811E+03

1.373800456E+03

8.254091868E+02

4.998473978E+02

3.031044395E+02

1.828513256E+02

1.090232470E+02

6.382921802E+01

3.645554349E+01

2.017973700E+01

1.075572097E+01

5.484030754E+00

2.657423649E+00

1.215868194E+00

5.218446286E-01

2.087320722E-01

7.730269371E-02

2.633429986E-02

8.198508668E-03

2.317384555E-03

$ p-type functions

29 0 0

1.455505734E+08

3.168789763E+07

7.806917425E+06

2.158555213E+06

6.642551297E+05

2.256241659E+05

8.388919267E+04

3.385999448E+04

1.471360120E+04

6.826421027E+03

3.353512387E+03

1.729936957E+03

9.293406170E+02

5.156138836E+02

2.930016678E+02

1.691227959E+02

9.833577328E+01

5.712010773E+01

3.287194140E+01

1.858708600E+01

1.024088864E+01

5.452493069E+00

2.782111342E+00

1.349169640E+00

6.166830963E-01

2.634824678E-01

1.043581465E-01

3.799939749E-02

1.261518274E-02

$ d-type functions

20 0 0

5.453703152E+04

1.692132983E+04

5.919283007E+03

2.302199596E+03

9.817563835E+02

4.526880421E+02

2.225750484E+02

1.150757283E+02

6.169762207E+01

3.382814589E+01

1.870512761E+01

1.028640227E+01

5.547972739E+00

2.894148120E+00

1.440026380E+00

6.739552136E-01

2.925837204E-01

1.161917913E-01

4.162502825E-02

1.326584984E-02

$ f-type functions

15 0 0

2.710985441E+03

9.781635985E+02

3.928601550E+02

1.718867239E+02

8.017892656E+01

3.902360459E+01

1.939453885E+01

9.632791320E+00

4.679302853E+00

2.175715740E+00

9.476562659E-01

3.784102554E-01

1.355732541E-01

4.265008443E-02

1.153018328E-02

$ g-type functions

5 0 0

1.440026380E+00

6.739552136E-01

2.925837204E-01

1.161917913E-01

4.162502825E-02

$ h-type functions

2 0 0

3.784102554E-01

1.355732541E-01

$ i-type functions

1 0 0

1.161917913E-01

a 90

$ Th (Thorium)

$ s-type functions

35 0 0

2.812337987E+09

6.156877218E+08

1.507960232E+08

4.105076749E+07

1.234014472E+07

4.069606192E+06

1.462794303E+06

5.693488649E+05

2.383985248E+05

1.066901082E+05

5.069974988E+04

2.541640538E+04

1.335410151E+04

7.305888361E+03

4.134802650E+03

2.405057799E+03

1.428403182E+03

8.605898924E+02

5.225494507E+02

3.176946157E+02

1.921362009E+02

1.148394256E+02

6.739394412E+01

3.858019037E+01

2.140361211E+01

1.143285174E+01

5.841608501E+00

2.836522817E+00

1.300414054E+00

5.592218717E-01

2.241090248E-01

8.315202449E-02

2.837854828E-02

8.850686763E-03

2.506102305E-03

$ p-type functions

29 0 0

1.400465640E+08

3.052391870E+07

7.528097479E+06

2.083521475E+06

6.417549323E+05

2.181672822E+05

8.118015677E+04

3.278994538E+04

1.425780693E+04

6.618760713E+03

3.253143575E+03

1.678893188E+03

9.022499652E+02

5.007319895E+02

2.846093364E+02

1.643043173E+02

9.554226240E+01

5.549827251E+01

3.193680695E+01

1.805603096E+01

9.946322649E+00

5.294231604E+00

2.700437655E+00

1.309021820E+00

5.980421764E-01

2.553757314E-01

1.010836701E-01

3.678126259E-02

1.220133086E-02

$ d-type functions

20 0 0

5.563783462E+04

1.721364942E+04

6.006409040E+03

2.330949024E+03

9.921178693E+02

4.567127090E+02

2.242378678E+02

1.157970647E+02

6.202197454E+01

3.397737097E+01

1.877443195E+01

1.031842457E+01

5.562451543E+00

2.900427743E+00

1.442572098E+00

6.748843796E-01

2.928696045E-01

1.162542945E-01

4.162652847E-02

1.325850542E-02

$ f-type functions

15 0 0

2.737993057E+03

9.853332373E+02

3.948858630E+02

1.724708984E+02

8.034039697E+01

3.906107146E+01

1.939833630E+01

9.629707424E+00

4.676361744E+00

2.174040482E+00

9.469123877E-01

3.781401008E-01

1.354922834E-01

4.262981020E-02

1.152570156E-02

$ g-type functions

5 0 0

1.442572098E+00

6.748843796E-01

2.928696045E-01

1.162542945E-01

4.162652847E-02

$ h-type functions

2 0 0

3.781401008E-01

1.354922834E-01

$ i-type functions

1 0 0

2.928696045E-01

a 91

$ Pa (Protactinium)

$ s-type functions

35 0 0

1.314764822E+10

2.568987137E+09

5.647229607E+08

1.387343677E+08

3.783756724E+07

1.138068286E+07

3.750030855E+06

1.344739622E+06

5.213073372E+05

2.170287082E+05

9.638815796E+04

4.536581935E+04

2.247749223E+04

1.164652620E+04

6.268878462E+03

3.482119073E+03

1.982773691E+03

1.149724735E+03

6.744057039E+02

3.975306911E+02

2.339147441E+02

1.364889431E+02

7.845230723E+01

4.412632727E+01

2.412620926E+01

1.273781925E+01

6.451061654E+00

3.113241834E+00

1.422183098E+00

6.109062861E-01

2.451238317E-01

9.126489888E-02

3.132165850E-02

9.842918569E-03

2.813562965E-03

$ p-type functions

29 0 0

1.464120573E+08

3.459852382E+07

9.103978034E+06

2.648721867E+06

8.460804423E+05

2.946427219E+05

1.110777723E+05

4.501368894E+04

1.947092885E+04

8.926721241E+03

4.307240627E+03

2.171934749E+03

1.136510649E+03

6.127988768E+02

3.380794295E+02

1.895023007E+02

1.071627378E+02

6.070791343E+01

3.421035834E+01

1.904229861E+01

1.039606937E+01

5.527714895E+00

2.842414368E+00

1.403566686E+00

6.608779159E-01

2.946392316E-01

1.235036155E-01

4.833115275E-02

1.753362197E-02

$ d-type functions

20 0 0

5.865508962E+04

1.647286770E+04

5.395949157E+03

2.025302184E+03

8.557036213E+02

3.998127864E+02

2.029448205E+02

1.099449944E+02

6.245070721E+01

3.653859836E+01

2.163252643E+01

1.273185407E+01

7.318015489E+00

4.035529004E+00

2.097496821E+00

1.009448234E+00

4.419131345E-01

1.728813306E-01

5.937530125E-02

1.758726517E-02

$ f-type functions

15 0 0

1.422259917E+03

5.630555062E+02

2.406937385E+02

1.099171523E+02

5.305166118E+01

2.677386682E+01

1.397808100E+01

7.468856213E+00

4.040884958E+00

2.190082454E+00

1.176391252E+00

6.195782990E-01

3.165479099E-01

1.552127140E-01

7.226125097E-02

$ g-type functions

5 0 0

4.035529004E+00

2.097496821E+00

1.009448234E+00

4.419131345E-01

1.728813306E-01

$ h-type functions

2 0 0

1.176391252E+00

6.195782990E-01

$ i-type functions

1 0 0

1.009448234E+00

a 92

$ U (Uranium)

$ s-type functions

35 0 0

1.338146532E+10

2.611435211E+09

5.734544441E+08

1.407583726E+08

3.836337092E+07

1.153288752E+07

3.798828490E+06

1.361956426E+06

5.279468450E+05

2.198073479E+05

9.764068051E+04

4.596926240E+04

2.278578430E+04

1.181222469E+04

6.361832797E+03

3.536121656E+03

2.015014166E+03

1.169355413E+03

6.865055305E+02

4.050253405E+02

2.385462312E+02

1.393242435E+02

8.015971430E+01

4.513074711E+01

2.469945345E+01

1.305305547E+01

6.616961479E+00

3.196231110E+00

1.461377611E+00

6.282651857E-01

2.522849665E-01

9.399811487E-02

3.228032310E-02

1.014983825E-02

2.902648529E-03

$ p-type functions

29 0 0

2.717986257E+08

6.294408158E+07

1.622119396E+07

4.619450337E+06

1.443566033E+06

4.915652473E+05

1.811269820E+05

7.171366044E+04

3.029679499E+04

1.356209685E+04

6.387804975E+03

3.143622630E+03

1.605175097E+03

8.444753309E+02

4.545517830E+02

2.485827031E+02

1.371541291E+02

7.581525592E+01

4.169398053E+01

2.265262035E+01

1.207399981E+01

6.269469758E+00

3.149319233E+00

1.519735762E+00

6.995911442E-01

3.050736113E-01

1.251435298E-01

4.795289960E-02

1.704446441E-02

$ d-type functions

20 0 0

7.129539861E+04

1.945797126E+04

6.213794095E+03

2.280571659E+03

9.448491400E+02

4.340276778E+02

2.171265351E+02

1.161858454E+02

6.531947807E+01

3.789532819E+01

2.228365583E+01

1.304515773E+01

7.467559114E+00

4.105620150E+00

2.129383798E+00

1.023313082E+00

4.475554279E-01

1.749738599E-01

6.006090579E-02

1.777899729E-02

$ f-type functions

15 0 0

1.380893417E+03

5.487423976E+02

2.353871030E+02

1.078368700E+02

5.220198509E+01

2.641840352E+01

1.382899435E+01

7.408047873E+00

4.018007880E+00

2.183113339E+00

1.175614543E+00

6.207853447E-01

3.180317457E-01

1.563927709E-01

7.303730358E-02

$ g-type functions

5 0 0

4.105620150E+00

2.129383798E+00

1.023313082E+00

4.475554279E-01

1.749738599E-01

$ h-type functions

2 0 0

2.183113339E+00

1.175614543E+00

$ i-type functions

1 0 0

1.023313082E+00

a 93

$ Np (Neptunium)

$ s-type functions

35 0 0

1.377703031E+10

2.686406632E+09

5.893203354E+08

1.444824004E+08

3.932625759E+07

1.180523797E+07

3.882501506E+06

1.389676091E+06

5.377753726E+05

2.235084313E+05

9.910895411E+04

4.657771324E+04

2.304676773E+04

1.192693315E+04

6.412904138E+03

3.558838003E+03

2.024927623E+03

1.173488692E+03

6.880765191E+02

4.055116129E+02

2.386156308E+02

1.392655898E+02

8.008633176E+01

4.507782279E+01

2.467048675E+01

1.304136548E+01

6.614839038E+00

3.198060443E+00

1.464015018E+00

6.303999630E-01

2.536406831E-01

9.472705658E-02

3.262134551E-02

1.029017360E-02

2.953635113E-03

$ p-type functions

29 0 0

2.584045432E+08

5.924507448E+07

1.516084906E+07

4.298970625E+06

1.340990254E+06

4.568329977E+05

1.687370771E+05

6.708652544E+04

2.850245765E+04

1.284700998E+04

6.098809484E+03

3.027344440E+03

1.559921987E+03

8.283592145E+02

4.500490309E+02

2.483572027E+02

1.382038065E+02

7.699102057E+01

4.262726663E+01

2.328695704E+01

1.246138623E+01

6.484833653E+00

3.258072189E+00

1.568925981E+00

7.189101369E-01

3.111914602E-01

1.263316460E-01

4.775057113E-02

1.668312595E-02

$ d-type functions

20 0 0

6.346305781E+04

1.704599418E+04

5.381640055E+03

1.960983623E+03

8.097973183E+02

3.721326617E+02

1.868591510E+02

1.006704754E+02

5.713958399E+01

3.355021241E+01

2.001026126E+01

1.190379855E+01

6.935371699E+00

3.885807828E+00

2.055873265E+00

1.008534691E+00

4.504440617E-01

1.798549736E-01

6.303933733E-02

1.904515304E-02

$ f-type functions

15 0 0

1.400504304E+03

5.525075175E+02

2.358784704E+02

1.078012828E+02

5.217160743E+01

2.644894273E+01

1.389425842E+01

7.481773093E+00

4.085121198E+00

2.237307912E+00

1.215783145E+00

6.484629574E-01

3.358165296E-01

1.670305670E-01

7.893252182E-02

$ g-type functions

5 0 0

3.885807828E+00

2.055873265E+00

1.008534691E+00

4.504440617E-01

1.798549736E-01

$ h-type functions

2 0 0

2.237307912E+00

1.215783145E+00

$ i-type functions

1 0 0

2.055873265E+00

a 94

$ Pu (Plutonium)

$ s-type functions

35 0 0

1.496230705E+10

2.863467727E+09

6.171563430E+08

1.488057134E+08

3.987290256E+07

1.179457410E+07

3.826001815E+06

1.352006901E+06

5.170062620E+05

2.125241009E+05

9.328856045E+04

4.343789248E+04

2.131285261E+04

1.094609541E+04

5.845666290E+03

3.224618064E+03

1.825174320E+03

1.052990739E+03

6.151077777E+02

3.614071009E+02

2.121647700E+02

1.236213032E+02

7.101811685E+01

3.995886145E+01

2.187446842E+01

1.157323283E+01

5.878641599E+00

2.847847424E+00

1.307032011E+00

5.645440485E-01

2.279627439E-01

8.548633184E-02

2.957389886E-02

9.375877181E-03

2.705945169E-03

$ p-type functions

29 0 0

1.423750211E+08

3.398348772E+07

9.045984318E+06

2.665791094E+06

8.633908856E+05

3.050903960E+05

1.167664316E+05

4.805123337E+04

2.110652787E+04

9.823888868E+03

4.809867809E+03

2.459204019E+03

1.303455963E+03

7.109960958E+02

3.962194426E+02

2.239395125E+02

1.274326510E+02

7.247937112E+01

4.090350167E+01

2.273775589E+01

1.235959995E+01

6.521681676E+00

3.316208388E+00

1.613168482E+00

7.452500368E-01

3.245916266E-01

1.323165935E-01

5.011430004E-02

1.750685154E-02

$ d-type functions

20 0 0

1.192753442E+05

3.409238582E+04

1.124143657E+04

4.207884431E+03

1.759556548E+03

8.088350373E+02

4.022109146E+02

2.129142760E+02

1.180681107E+02

6.749276377E+01

3.913798341E+01

2.265563176E+01

1.288280032E+01

7.081424124E+00

3.702772550E+00

1.812380705E+00

8.171610455E-01

3.339808598E-01

1.217618016E-01

3.896691122E-02

$ f-type functions

15 0 0

1.768373161E+03

7.185091243E+02

3.167894529E+02

1.493664924E+02

7.422388496E+01

3.830947509E+01

2.023973067E+01

1.078706396E+01

5.715651812E+00

2.967264423E+00

1.487437403E+00

7.095403504E-01

3.174208418E-01

1.312434715E-01

4.942741494E-02

$ g-type functions

5 0 0

3.702772550E+00

1.812380705E+00

8.171610455E-01

3.339808598E-01

1.217618016E-01

$ h-type functions

2 0 0

2.967264423E+00

1.487437403E+00

$ i-type functions

1 0 0

1.812380705E+00

a 95

$ Am (Americium)

$ s-type functions

35 0 0

1.451887111E+10

2.797101120E+09

6.066395235E+08

1.471354787E+08

3.964470892E+07

1.178829881E+07

3.842660937E+06

1.364096126E+06

5.238498437E+05

2.161894751E+05

9.524564203E+04

4.449953480E+04

2.190193931E+04

1.128089008E+04

6.040248586E+03

3.339903032E+03

1.894512423E+03

1.095122150E+03

6.408348588E+02

3.771074423E+02

2.216850689E+02

1.293233957E+02

7.437106922E+01

4.188265195E+01

2.294481152E+01

1.214708144E+01

6.173244408E+00

2.991755046E+00

1.373493402E+00

5.933788466E-01

2.396400671E-01

8.987225684E-02

3.109192833E-02

9.856946874E-03

2.844637128E-03

$ p-type functions

29 0 0

1.376965173E+08

3.262212182E+07

8.638523921E+06

2.537786496E+06

8.209353398E+05

2.902359932E+05

1.113094810E+05

4.596229820E+04

2.028196953E+04

9.493086722E+03

4.677823421E+03

2.408626022E+03

1.286276156E+03

7.071124449E+02

3.971753430E+02

2.262380954E+02

1.297146331E+02

7.430227434E+01

4.220416031E+01

2.359383633E+01

1.288493179E+01

6.822696753E+00

3.476726425E+00

1.692293139E+00

7.809467388E-01

3.391236712E-01

1.375421418E-01

5.171357598E-02

1.789017495E-02

$ d-type functions

20 0 0

1.092632325E+05

3.147127088E+04

1.045298364E+04

3.939929348E+03

1.658422536E+03

7.671794494E+02

3.838222654E+02

2.043766242E+02

1.139820732E+02

6.552131066E+01

3.820372533E+01

2.223526887E+01

1.271244276E+01

7.025900723E+00

3.694007740E+00

1.818246696E+00

8.245242754E-01

3.389894168E-01

1.243475712E-01

4.004915595E-02

$ f-type functions

15 0 0

2.042036371E+03

8.150426767E+02

3.539159269E+02

1.647292281E+02

8.097294515E+01

4.141482605E+01

2.171532324E+01

1.150056623E+01

6.061254707E+00

3.132161512E+00

1.563550755E+00

7.428719441E-01

3.309771298E-01

1.362423065E-01

5.105095603E-02

$ g-type functions

5 0 0

7.025900723E+00

3.694007740E+00

1.818246696E+00

8.245242754E-01

3.389894168E-01

$ h-type functions

2 0 0

3.132161512E+00

1.563550755E+00

$ i-type functions

1 0 0

1.818246696E+00

a 96

$ Cm (Curium)

$ s-type functions

35 0 0

1.422195088E+10

2.754808897E+09

6.006593644E+08

1.464488535E+08

3.966259496E+07

1.185305160E+07

3.882840963E+06

1.385019488E+06

5.343988263E+05

2.215618146E+05

9.805293864E+04

4.601284358E+04

2.274399588E+04

1.176359798E+04

6.324348125E+03

3.510831817E+03

1.999122576E+03

1.159899706E+03

6.811920106E+02

4.022566406E+02

2.372673306E+02

1.388641653E+02

8.010809968E+01

4.524943339E+01

2.486089800E+01

1.319787178E+01

6.724978511E+00

3.267339600E+00

1.503593735E+00

6.510525893E-01

2.634920046E-01

9.901502401E-02

3.431891218E-02

1.089886233E-02

3.150362528E-03

$ p-type functions

29 0 0

6.946884696E+08

1.378044004E+08

3.096709023E+07

7.820505472E+06

2.201907916E+06

6.856874139E+05

2.342872702E+05

8.713637499E+04

3.499543206E+04

1.505625974E+04

6.884136883E+03

3.318496385E+03

1.673113665E+03

8.752549633E+02

4.713044596E+02

2.591547301E+02

1.443577643E+02

8.081228082E+01

4.510280824E+01

2.489726243E+01

1.348510083E+01

7.109583836E+00

3.619547950E+00

1.765295665E+00

8.182129208E-01

3.575475145E-01

1.461344258E-01

5.541858694E-02

1.934529194E-02

$ d-type functions

20 0 0

9.683591834E+04

2.530084745E+04

7.821774629E+03

2.806295907E+03

1.146056049E+03

5.225270525E+02

2.608726351E+02

1.398786364E+02

7.900665420E+01

4.610538613E+01

2.726475913E+01

1.602507135E+01

9.181906794E+00

5.030216595E+00

2.584328312E+00

1.221243248E+00

5.206387067E-01

1.963978877E-01

6.429682857E-02

1.791764663E-02

$ f-type functions

15 0 0

1.584962359E+03

6.370133259E+02

2.768300050E+02

1.286812407E+02

6.329320868E+01

3.258675675E+01

1.737279420E+01

9.487353438E+00

5.250125822E+00

2.912365838E+00

1.602050079E+00

8.644951246E-01

4.526970541E-01

2.275693692E-01

1.086383894E-01

$ g-type functions

5 0 0

5.030216595E+00

2.584328312E+00

1.221243248E+00

5.206387067E-01

1.963978877E-01

$ h-type functions

2 0 0

2.912365838E+00

1.602050079E+00

$ i-type functions

1 0 0

2.584328312E+00

a 97

$ Bk (Berkelium)

$ s-type functions

35 0 0

1.462235346E+10

2.822738815E+09

6.135472382E+08

1.491631256E+08

4.029242160E+07

1.201284726E+07

3.926824559E+06

1.398048588E+06

5.385183684E+05

2.229402753E+05

9.853682552E+04

4.618946037E+04

2.281044533E+04

1.178917623E+04

6.334381875E+03

3.514862789E+03

2.000820501E+03

1.160688726E+03

6.816219290E+02

4.025351028E+02

2.374699421E+02

1.390178229E+02

8.022348690E+01

4.533295900E+01

2.491841117E+01

1.323526500E+01

6.747815732E+00

3.280381343E+00

1.510526205E+00

6.544662752E-01

2.650413436E-01

9.965970263E-02

3.456347705E-02

1.098296012E-02

3.176419078E-03

$ p-type functions

29 0 0

6.970458806E+08

1.390474450E+08

3.144046113E+07

7.993168828E+06

2.266382402E+06

7.109048164E+05

2.446998635E+05

9.168112641E+04

3.708771150E+04

1.606807881E+04

7.395399361E+03

3.586765718E+03

1.818310426E+03

9.557330997E+02

5.166408522E+02

2.849077869E+02

1.589876142E+02

8.905239467E+01

4.966279858E+01

2.735268675E+01

1.475815101E+01

7.737612975E+00

3.910255095E+00

1.889322740E+00

8.657452676E-01

3.731959769E-01

1.501158579E-01

5.589061949E-02

1.910530367E-02

$ d-type functions

20 0 0

1.447292880E+05

4.011338737E+04

1.288280891E+04

4.716195050E+03

1.935996498E+03

8.766387079E+02

4.307364606E+02

2.259171465E+02

1.244242323E+02

7.078652827E+01

4.092208691E+01

2.364820065E+01

1.343826645E+01

7.386944946E+00

3.863977556E+00

1.892012915E+00

8.531099690E-01

3.484568501E-01

1.268316713E-01

4.046809806E-02

$ f-type functions

15 0 0

2.021328721E+03

8.202418852E+02

3.621298654E+02

1.713232068E+02

8.554793734E+01

4.440751106E+01

2.360309260E+01

1.265199528E+01

6.736569752E+00

3.509298618E+00

1.761633700E+00

8.393376606E-01

3.738485252E-01

1.533220229E-01

5.702632198E-02

$ g-type functions

5 0 0

7.386944946E+00

3.863977556E+00

1.892012915E+00

8.531099690E-01

3.484568501E-01

$ h-type functions

2 0 0

3.509298618E+00

1.761633700E+00

$ i-type functions

1 0 0

1.892012915E+00

a 98

$ Cf (Californium)

$ s-type functions

35 0 0

1.444686615E+10

2.777693209E+09

6.015341881E+08

1.457506659E+08

3.925037024E+07

1.166994285E+07

3.805346830E+06

1.351851823E+06

5.197351019E+05

2.148136645E+05

9.481508490E+04

4.439534515E+04

2.190537452E+04

1.131425493E+04

6.076759555E+03

3.371302664E+03

1.919162803E+03

1.113584193E+03

6.542447520E+02

3.866091884E+02

2.282588437E+02

1.337566415E+02

7.727591980E+01

4.372430141E+01

2.406912089E+01

1.280457043E+01

6.539522194E+00

3.185018994E+00

1.469507553E+00

6.380198487E-01

2.589452279E-01

9.758920330E-02

3.392536708E-02

1.080649968E-02

3.133228179E-03

$ p-type functions

29 0 0

7.407363036E+08

1.457900852E+08

3.259977824E+07

8.213600993E+06

2.312569858E+06

7.216197777E+05

2.475051874E+05

9.254063997E+04

3.740787260E+04

1.621383858E+04

7.473275729E+03

3.632858624E+03

1.847176193E+03

9.743174614E+02

5.287312637E+02

2.927668104E+02

1.640480382E+02

9.225556948E+01

5.164122121E+01

2.853597885E+01

1.543801326E+01

8.109655639E+00

4.102379080E+00

1.981990372E+00

9.070049806E-01

3.899152192E-01

1.561683743E-01

5.779474915E-02

1.960045133E-02

$ d-type functions

20 0 0

1.148947561E+05

3.228624544E+04

1.051788761E+04

3.907237976E+03

1.628089473E+03

7.484976664E+02

3.734591650E+02

1.989175000E+02

1.112542917E+02

6.427042545E+01

3.772184345E+01

2.212578482E+01

1.275748934E+01

7.112613471E+00

3.771615196E+00

1.871097556E+00

8.542265845E-01

3.530157173E-01

1.298960722E-01

4.186159053E-02

$ f-type functions

15 0 0

2.503753304E+03

9.912974426E+02

4.278979010E+02

1.983206705E+02

9.719756806E+01

4.961012736E+01

2.597052607E+01

1.373265625E+01

7.223699714E+00

3.722751845E+00

1.851124780E+00

8.746663942E-01

3.867695378E-01

1.576279009E-01

5.831131945E-02

$ g-type functions

5 0 0

7.112613471E+00

3.771615196E+00

1.871097556E+00

8.542265845E-01

3.530157173E-01

$ h-type functions

2 0 0

3.722751845E+00

1.851124780E+00

$ i-type functions

1 0 0

3.771615196E+00

a 99

$ Es (Einsteinium)

$ s-type functions

35 0 0

1.397500493E+10

2.699958145E+09

5.873645399E+08

1.429276737E+08

3.864516035E+07

1.153337380E+07

3.774090992E+06

1.345164471E+06

5.187495231E+05

2.150164130E+05

9.515450903E+04

4.466252471E+04

2.208643295E+04

1.143111480E+04

6.150983522E+03

3.418265494E+03

1.948877526E+03

1.132382400E+03

6.661066359E+02

3.940476789E+02

2.328736927E+02

1.365749364E+02

7.896102617E+01

4.470519963E+01

2.462175751E+01

1.310412707E+01

6.694797656E+00

3.261515199E+00

1.505103024E+00

6.535671250E-01

2.652794425E-01

9.998128160E-02

3.475744040E-02

1.107141516E-02

3.209940833E-03

$ p-type functions

29 0 0

7.696832535E+08

1.515930434E+08

3.392782344E+07

8.557248168E+06

2.412156954E+06

7.536370052E+05

2.588189023E+05

9.689442691E+04

3.921593239E+04

1.701684877E+04

7.851280404E+03

3.819781315E+03

1.943412905E+03

1.025444459E+03

5.565082277E+02

3.080600136E+02

1.725024520E+02

9.690436149E+01

5.415909434E+01

2.986560986E+01

1.611518199E+01

8.438296514E+00

4.252281412E+00

2.045166970E+00

9.310371414E-01

3.978584757E-01

1.582725144E-01

5.812856165E-02

1.954666846E-02

$ d-type functions

20 0 0

1.341602103E+05

3.711774831E+04

1.191747112E+04

4.367625375E+03

1.797130574E+03

8.165843613E+02

4.030174500E+02

2.125015995E+02

1.177417020E+02

6.742832363E+01

3.925658853E+01

2.285362427E+01

1.308531365E+01

7.247928684E+00

3.819958104E+00

1.884223410E+00

8.555580685E-01

3.517418807E-01

1.287865054E-01

4.130498956E-02

$ f-type functions

15 0 0

2.296872199E+03

9.156814350E+02

3.982138267E+02

1.860228379E+02

9.191954273E+01

4.731019735E+01

2.497587054E+01

1.331739052E+01

7.062588737E+00

3.668332019E+00

1.837582931E+00

8.742034328E-01

3.889367406E-01

1.593529076E-01

5.920647818E-02

$ g-type functions

5 0 0

7.247928684E+00

3.819958104E+00

1.884223410E+00

8.555580685E-01

3.517418807E-01

$ h-type functions

2 0 0

3.668332019E+00

1.837582931E+00

$ i-type functions

1 0 0

3.819958104E+00

a 100

$ Fm (Fermium)

$ s-type functions

35 0 0

1.408826069E+10

2.704594063E+09

5.848431894E+08

1.415069608E+08

3.805621351E+07

1.130033025E+07

3.680297028E+06

1.305897724E+06

5.015086202E+05

2.070613151E+05

9.130178044E+04

4.270980837E+04

2.105486598E+04

1.086581251E+04

5.831297304E+03

3.232732711E+03

1.839011446E+03

1.066393459E+03

6.261484408E+02

3.698046003E+02

2.182282023E+02

1.278207570E+02

7.381629187E+01

4.175147070E+01

2.297568297E+01

1.221941923E+01

6.239166395E+00

3.038119302E+00

1.401501984E+00

6.084174086E-01

2.469090189E-01

9.304821943E-02

3.234620660E-02

1.030365257E-02

2.987583151E-03

$ p-type functions

29 0 0

6.919961407E+08

1.379393647E+08

3.123036082E+07

7.964454464E+06

2.268879007E+06

7.160262288E+05

2.482531897E+05

9.377672779E+04

3.827504089E+04

1.673950547E+04

7.779684331E+03

3.810304982E+03

1.950392119E+03

1.034747962E+03

5.642657594E+02

3.136572328E+02

1.762525575E+02

9.929104466E+01

5.561158639E+01

3.071051219E+01

1.658293609E+01

8.683092068E+00

4.372320775E+00

2.099714652E+00

9.536855725E-01

4.062869175E-01

1.610012232E-01

5.885457726E-02

1.968212861E-02

$ d-type functions

20 0 0

1.250335959E+05

3.486124250E+04

1.126975747E+04

4.155270329E+03

1.718915143E+03

7.847611061E+02

3.889607862E+02

2.058813088E+02

1.144796284E+02

6.578049359E+01

3.842210089E+01

2.244076141E+01

1.289211010E+01

7.166346403E+00

3.791546612E+00

1.878180164E+00

8.568756165E-01

3.541729928E-01

1.304630889E-01

4.213003963E-02

$ f-type functions

15 0 0

2.205543229E+03

8.841514440E+02

3.864335571E+02

1.813485067E+02

8.999077823E+01

4.650298139E+01

2.464428633E+01

1.319040856E+01

7.021997892E+00

3.661655493E+00

1.841884954E+00

8.801762490E-01

3.935073144E-01

1.620936068E-01

6.058467305E-02

$ g-type functions

5 0 0

7.166346403E+00

3.791546612E+00

1.878180164E+00

8.568756165E-01

3.541729928E-01

$ h-type functions

2 0 0

3.661655493E+00

1.841884954E+00

$ i-type functions

1 0 0

3.791546612E+00

a 101

$ Md (Mendelevium)

$ s-type functions

35 0 0

1.400805861E+10

2.690368078E+09

5.821704944E+08

1.409929226E+08

3.796268863E+07

1.128841674E+07

3.682386941E+06

1.309031266E+06

5.037310514E+05

2.084392132E+05

9.212892879E+04

4.320683018E+04

2.135760121E+04

1.105350768E+04

5.949757061E+03

3.308671989E+03

1.888284624E+03

1.098612038E+03

6.472742040E+02

3.836217205E+02

2.271919381E+02

1.335553766E+02

7.741274423E+01

4.394910864E+01

2.427605401E+01

1.295986355E+01

6.642337944E+00

3.246710795E+00

1.503392003E+00

6.551047593E-01

2.668474490E-01

1.009329654E-01

3.521474774E-02

1.125749067E-02

3.275578182E-03

$ p-type functions

29 0 0

6.988638616E+08

1.389216896E+08

3.140179596E+07

8.003571673E+06

2.280846575E+06

7.206579014E+05

2.503346931E+05

9.480029774E+04

3.880905747E+04

1.703057010E+04

7.943939662E+03

3.905631903E+03

2.006934818E+03

1.068808190E+03

5.849635284E+02

3.262558284E+02

1.838764897E+02

1.038413986E+02

5.826787964E+01

3.221367142E+01

1.739969043E+01

9.104813797E+00

4.576851565E+00

2.191627606E+00

9.913085108E-01

4.199823197E-01

1.652613304E-01

5.989181957E-02

1.982246955E-02

$ d-type functions

20 0 0

1.248749903E+05

3.508896034E+04

1.141236085E+04

4.226810288E+03

1.753899023E+03

8.021826974E+02

3.978699803E+02

2.105380211E+02

1.169401608E+02

6.707534683E+01

3.908864009E+01

2.276925884E+01

1.304308213E+01

7.228811004E+00

3.813564727E+00

1.884062425E+00

8.575938793E-01

3.538446063E-01

1.301997990E-01

4.203365722E-02

$ f-type functions

15 0 0

2.619610754E+03

1.042316867E+03

4.515242099E+02

2.097537172E+02

1.029235399E+02

5.254425771E+01

2.748972407E+01

1.451707589E+01

7.622205190E+00

3.919258607E+00

1.943918606E+00

9.160774189E-01

4.040129625E-01

1.642466481E-01

6.062683554E-02

$ g-type functions

5 0 0

7.228811004E+00

3.813564727E+00

1.884062425E+00

8.575938793E-01

3.538446063E-01

$ h-type functions

2 0 0

3.919258607E+00

1.943918606E+00

$ i-type functions

1 0 0

3.813564727E+00

a 102

$ No (Nobelium)

$ s-type functions

35 0 0

1.430038337E+10

2.735951189E+09

5.899129276E+08

1.423924029E+08

3.822130355E+07

1.133298656E+07

3.687261079E+06

1.307628792E+06

5.020957700E+05

2.073531259E+05

9.148649313E+04

4.283770311E+04

2.114553163E+04

1.093036611E+04

5.877260108E+03

3.265424520E+03

1.862213007E+03

1.082790567E+03

6.376544672E+02

3.777918783E+02

2.236899793E+02

1.314823857E+02

7.621074190E+01

4.327058872E+01

2.390550115E+01

1.276532183E+01

6.544778972E+00

3.200279679E+00

1.482555806E+00

6.463455545E-01

2.634204670E-01

9.969324460E-02

3.480277274E-02

1.113254074E-02

3.241212509E-03

$ p-type functions

29 0 0

6.746552644E+08

1.345185495E+08

3.050352181E+07

7.800302607E+06

2.230451016E+06

7.071634617E+05

2.465011409E+05

9.367337420E+04

3.848022632E+04

1.694374500E+04

7.929716200E+03

3.911185763E+03

2.015987878E+03

1.076768089E+03

5.909317657E+02

3.304148125E+02

1.866443321E+02

1.056159092E+02

5.936483002E+01

3.286552538E+01

1.777008504E+01

9.304694589E+00

4.678477459E+00

2.239870320E+00

1.012472501E+00

4.284614356E-01

1.683195239E-01

6.086640001E-02

2.008941159E-02

$ d-type functions

20 0 0

1.309638688E+05

3.656121563E+04

1.182137213E+04

4.355141725E+03

1.798592793E+03

8.191596845E+02

4.047794604E+02

2.134968892E+02

1.182488252E+02

6.766176583E+01

3.934957467E+01

2.288210584E+01

1.308941333E+01

7.246388756E+00

3.819524887E+00

1.885785696E+00

8.579848517E-01

3.538997081E-01

1.301976367E-01

4.202979988E-02

$ f-type functions

15 0 0

2.382105496E+03

9.570405127E+02

4.183360056E+02

1.959770806E+02

9.692369479E+01

4.984926989E+01

2.626342304E+01

1.396262477E+01

7.378456799E+00

3.817739301E+00

1.905236007E+00

9.033428216E-01

4.008457140E-01

1.639767385E-01

6.091540281E-02

$ g-type functions

5 0 0

7.246388756E+00

3.819524887E+00

1.885785696E+00

8.579848517E-01

3.538997081E-01

$ h-type functions

2 0 0

3.817739301E+00

1.905236007E+00

$ i-type functions

1 0 0

3.819524887E+00

a 103

$ Lr (Lawrencium)

$ s-type functions

33 0 0

1.325799482E+10

2.580350632E+09

5.656982258E+08

1.387696641E+08

3.783609439E+07

1.138986354E+07

3.760361639E+06

1.352502241E+06

5.264317501E+05

2.202623518E+05

9.840813485E+04

4.663507450E+04

2.328540037E+04

1.216865335E+04

6.611309967E+03

3.709514932E+03

2.135156669E+03

1.252344477E+03

7.435286561E+02

4.438639574E+02

2.646541624E+02

1.565606695E+02

9.127673946E+01

5.209661296E+01

2.891539946E+01

1.550306814E+01

7.975782121E+00

3.911060090E+00

1.815848833E+00

7.929162251E-01

3.234712921E-01

1.224625849E-01

4.273943291E-02

$ p-type functions

29 0 0

1.346328742E+08

3.842057254E+07

1.181363927E+07

3.895851506E+06

1.371549733E+06

5.131009971E+05

2.030336163E+05

8.458600090E+04

3.693058143E+04

1.681986735E+04

7.954253262E+03

3.887839689E+03

1.954974189E+03

1.006674598E+03

5.283774246E+02

2.813831701E+02

1.513360386E+02

8.182172725E+01

4.426583095E+01

2.385250273E+01

1.274254867E+01

6.717803876E+00

3.478873773E+00

1.761497420E+00

8.680585126E-01

4.144110206E-01

1.907746028E-01

8.429628670E-02

3.558660955E-02

$ d-type functions

20 0 0

7.819014942E+04

2.547992694E+04

9.222760928E+03

3.662621243E+03

1.576314986E+03

7.262156160E+02

3.537621757E+02

1.799832509E+02

9.446682508E+01

5.052481455E+01

2.719944028E+01

1.455783140E+01

7.651851484E+00

3.901406080E+00

1.905953091E+00

8.812341818E-01

3.808993103E-01

1.520268904E-01

5.534439719E-02

1.815187879E-02

$ f-type functions

15 0 0

2.965306560E+03

1.133458131E+03

4.839926121E+02

2.265434742E+02

1.140581078E+02

6.061006621E+01

3.335719720E+01

1.865704042E+01

1.040606577E+01

5.679409752E+00

2.976287423E+00

1.469547992E+00

6.708294561E-01

2.778063247E-01

1.024132141E-01

$ g-type functions

2 0 0

3.808993103E-01

1.520268904E-01

$ h-type functions

1 0 0

2.778063247E-01

a 104

$ Rf (Rutherfordium)

$ s-type functions

33 0 0

1.362639632E+10

2.637518181E+09

5.752286467E+08

1.404184997E+08

3.811141814E+07

1.142460067E+07

3.757424538E+06

1.346824489E+06

5.226505605E+05

2.181221128E+05

9.724874604E+04

4.601215179E+04

2.294951315E+04

1.198657176E+04

6.512462895E+03

3.656221297E+03

2.107001311E+03

1.238084931E+03

7.368813244E+02

4.412800789E+02

2.641246501E+02

1.569602088E+02

9.199503760E+01

5.282525662E+01

2.952088619E+01

1.594908991E+01

8.275025548E+00

4.095791886E+00

1.921098799E+00

8.482287357E-01

3.502159352E-01

1.343156588E-01

4.753279936E-02

$ p-type functions

29 0 0

1.749274458E+08

4.800501149E+07

1.426756277E+07

4.569741162E+06

1.569480815E+06

5.751578157E+05

2.237838028E+05

9.198666791E+04

3.974840845E+04

1.796624111E+04

8.452425109E+03

4.118471564E+03

2.068071021E+03

1.064911381E+03

5.595309755E+02

2.984980172E+02

1.608827285E+02

8.717100554E+01

4.724690379E+01

2.548926547E+01

1.361971319E+01

7.172148650E+00

3.703780884E+00

1.866379595E+00

9.131820415E-01

4.316795189E-01

1.961806765E-01

8.528756556E-02

3.529343425E-02

$ d-type functions

20 0 0

7.766295674E+04

2.541593413E+04

9.247874686E+03

3.694791757E+03

1.600732017E+03

7.426708838E+02

3.644112122E+02

1.867553689E+02

9.872086654E+01

5.315789621E+01

2.879506343E+01

1.549630618E+01

8.182136068E+00

4.186027063E+00

2.049286395E+00

9.480626524E-01

4.093300628E-01

1.628849404E-01

5.899665347E-02

1.920796874E-02

$ f-type functions

15 0 0

3.799916845E+03

1.387504980E+03

5.725809703E+02

2.617428295E+02

1.299097720E+02

6.861698238E+01

3.780400371E+01

2.129384011E+01

1.201915156E+01

6.663323330E+00

3.556303665E+00

1.790982256E+00

8.341839824E-01

3.522120002E-01

1.321331570E-01

$ g-type functions

2 0 0

4.093300628E-01

1.628849404E-01

$ h-type functions

1 0 0

3.522120002E-01

a 105

$ Db (Dubnium)

$ s-type functions

33 0 0

1.340591113E+10

2.609262762E+09

5.720505320E+08

1.403326305E+08

3.826513327E+07

1.152074819E+07

3.804552886E+06

1.368940750E+06

5.331339750E+05

2.232396576E+05

9.983945763E+04

4.737416335E+04

2.369201319E+04

1.240497942E+04

6.755171789E+03

3.800455158E+03

2.194351974E+03

1.291698118E+03

7.700384682E+02

4.618203552E+02

2.767932997E+02

1.646920082E+02

9.663546146E+01

5.554694388E+01

3.107105910E+01

1.680106394E+01

8.723985793E+00

4.321187886E+00

2.028214966E+00

8.961073638E-01

3.702149369E-01

1.420719212E-01

5.030783088E-02

$ p-type functions

29 0 0

5.293526854E+08

1.296571402E+08

3.474892036E+07

1.013428610E+07

3.198640135E+06

1.086604223E+06

3.951159740E+05

1.529460936E+05

6.267959768E+04

2.704589951E+04

1.222017673E+04

5.749999130E+03

2.802113453E+03

1.406516086E+03

7.231995593E+02

3.788257322E+02

2.010490695E+02

1.075125963E+02

5.761356199E+01

3.076887422E+01

1.628671129E+01

8.497741368E+00

4.346456612E+00

2.167416250E+00

1.047943448E+00

4.885795915E-01

2.184480436E-01

9.315148178E-02

3.767676053E-02

$ d-type functions

20 0 0

8.723217171E+04

2.785527018E+04

9.927208531E+03

3.898735342E+03

1.666038248E+03

7.648892261E+02

3.725222742E+02

1.900351047E+02

1.002607785E+02

5.401715671E+01

2.934428560E+01

1.587063468E+01

8.437848903E+00

4.354353168E+00

2.153563963E+00

1.007910293E+00

4.407615759E-01

1.778242876E-01

6.535392766E-02

2.160395855E-02

$ f-type functions

15 0 0

3.674992474E+03

1.368272058E+03

5.784056975E+02

2.717512549E+02

1.389070342E+02

7.561803650E+01

4.291506977E+01

2.485491666E+01

1.438029031E+01

8.135994431E+00

4.406320372E+00

2.236138657E+00

1.040910554E+00

4.350657656E-01

1.598298965E-01

$ g-type functions

2 0 0

4.407615759E-01

1.778242876E-01

$ h-type functions

1 0 0

4.350657656E-01

a 106

$ Sg (Seaborgium)

$ s-type functions

33 0 0

1.350976619E+10

2.643162790E+09

5.820617503E+08

1.433251252E+08

3.920331280E+07

1.183339669E+07

3.915807618E+06

1.411229306E+06

5.502717178E+05

2.306211919E+05

1.032054654E+05

4.899217206E+04

2.450813446E+04

1.283489813E+04

6.990564683E+03

3.933768525E+03

2.272066838E+03

1.338098899E+03

7.982688475E+02

4.792289613E+02

2.876132481E+02

1.714295648E+02

1.008120888E+02

5.810702050E+01

3.261164859E+01

1.770451780E+01

9.236378099E+00

4.600071724E+00

2.172760479E+00

9.669020968E-01

4.027314992E-01

1.559732756E-01

5.579886090E-02

$ p-type functions

29 0 0

2.876673999E+09

5.789896390E+08

1.297874331E+08

3.219653492E+07

8.782804132E+06

2.617807852E+06

8.471411390E+05

2.957468650E+05

1.106786442E+05

4.411839930E+04

1.861319095E+04

8.258478072E+03

3.829042984E+03

1.843420575E+03

9.156626913E+02

4.662903638E+02

2.418912324E+02

1.270163159E+02

6.708223562E+01

3.540765027E+01

1.855928250E+01

9.599147989E+00

4.867932568E+00

2.405081040E+00

1.150326443E+00

5.292387700E-01

2.327310305E-01

9.719903635E-02

3.830959707E-02

$ d-type functions

20 0 0

1.061015225E+05

3.156168871E+04

1.064266863E+04

4.011057991E+03

1.665911154E+03

7.517884114E+02

3.634600774E+02

1.856100557E+02

9.871800887E+01

5.391477217E+01

2.981275178E+01

1.645681011E+01

8.941388331E+00

4.714616402E+00

2.378681400E+00

1.132246795E+00

5.013340867E-01

2.035921743E-01

7.476684255E-02

2.448147135E-02

$ f-type functions

15 0 0

4.556530532E+03

1.643891287E+03

6.777538812E+02

3.124645975E+02

1.576265187E+02

8.513873318E+01

4.817972237E+01

2.795183902E+01

1.626804025E+01

9.294127439E+00

5.100353949E+00

2.630753101E+00

1.248009017E+00

5.328230287E-01

2.003298458E-01

$ g-type functions

2 0 0

5.013340867E-01

2.035921743E-01

$ h-type functions

1 0 0

5.328230287E-01

a 107

$ Bh (Bohrium)

$ s-type functions

33 0 0

1.367535232E+10

2.661940440E+09

5.837214692E+08

1.432456811E+08

3.907931643E+07

1.177397058E+07

3.891620788E+06

1.401814921E+06

5.466690055E+05

2.292729657E+05

1.027299046E+05

4.885146291E+04

2.449153078E+04

1.285976313E+04

7.025054610E+03

3.966314532E+03

2.299144796E+03

1.359277836E+03

8.142052573E+02

4.908675672E+02

2.958833708E+02

1.771428286E+02

1.046391987E+02

6.058345856E+01

3.415258346E+01

1.862189682E+01

9.756097715E+00

4.878667855E+00

2.313237701E+00

1.033128128E+00

4.317417409E-01

1.677068624E-01

6.015276389E-02

$ p-type functions

29 0 0

3.088235542E+09

6.166698939E+08

1.374596604E+08

3.398033482E+07

9.254641176E+06

2.758803294E+06

8.942537783E+05

3.131334081E+05

1.176728510E+05

4.714667534E+04

2.000799051E+04

8.934765367E+03

4.170996134E+03

2.022195105E+03

1.011538999E+03

5.186426089E+02

2.707880015E+02

1.430263249E+02

7.592373362E+01

4.024054238E+01

2.115555692E+01

1.095996442E+01

5.558627184E+00

2.741885705E+00

1.306785244E+00

5.978357019E-01

2.608146003E-01

1.077963499E-01

4.193223315E-02

$ d-type functions

20 0 0

1.187999604E+05

3.542110144E+04

1.196096956E+04

4.510440589E+03

1.872878078E+03

8.443601037E+02

4.075334504E+02

2.076375412E+02

1.101146880E+02

5.993369967E+01

3.301209466E+01

1.814433000E+01

9.812153887E+00

5.147934659E+00

2.583667736E+00

1.223108428E+00

5.385271669E-01

2.174474588E-01

7.939530438E-02

2.584751294E-02

$ f-type functions

15 0 0

4.836028448E+03

1.692091070E+03

6.818082049E+02

3.093019836E+02

1.544413425E+02

8.298186675E+01

4.690509189E+01

2.726793995E+01

1.593890941E+01

9.158349231E+00

5.057157871E+00

2.623644113E+00

1.250232626E+00

5.349862389E-01

2.009734381E-01

$ g-type functions

2 0 0

5.385271669E-01

2.174474588E-01

$ h-type functions

1 0 0

5.349862389E-01

a 108

$ Hs (Hassium)

$ s-type functions

33 0 0

1.300567411E+10

2.571978059E+09

5.720202094E+08

1.421391730E+08

3.920334021E+07

1.192306225E+07

3.972432998E+06

1.440382901E+06

5.646775447E+05

2.377786402E+05

1.068423665E+05

5.089335409E+04

2.553137127E+04

1.340081704E+04

7.311072004E+03

4.118812937E+03

2.380416084E+03

1.402077635E+03

8.361384644E+02

5.015565141E+02

3.006392348E+02

1.788974400E+02

1.049890141E+02

6.036892328E+01

3.378791710E+01

1.828674482E+01

9.507951576E+00

4.718040523E+00

2.219775728E+00

9.837343424E-01

4.079589337E-01

1.572800072E-01

5.600123790E-02

$ p-type functions

29 0 0

3.360194718E+09

6.472698406E+08

1.402560869E+08

3.394356756E+07

9.109125311E+06

2.691307315E+06

8.691632067E+05

3.046314960E+05

1.150449879E+05

4.647977675E+04

1.994563178E+04

9.026159337E+03

4.276747703E+03

2.106510867E+03

1.070871146E+03

5.578509428E+02

2.956586361E+02

1.582845084E+02

8.498566963E+01

4.543561784E+01

2.401455953E+01

1.245845719E+01

6.298677265E+00

3.081157533E+00

1.447911133E+00

6.489591640E-01

2.754382762E-01

1.099123961E-01

4.094194995E-02

$ d-type functions

20 0 0

1.336214147E+05

3.766867851E+04

1.215968500E+04

4.428071635E+03

1.792132341E+03

7.941479054E+02

3.795957513E+02

1.928158247E+02

1.025364179E+02

5.623937637E+01

3.134313922E+01

1.748625794E+01

9.620915811E+00

5.142968286E+00

2.631491240E+00

1.269677472E+00

5.691163392E-01

2.334735047E-01

8.636063182E-02

2.837582076E-02

$ f-type functions

15 0 0

3.826843708E+03

1.390455908E+03

5.798962304E+02

2.714886588E+02

1.395382319E+02

7.700282017E+01

4.461939872E+01

2.655071602E+01

1.586704224E+01

9.313538397E+00

5.251268285E+00

2.781481943E+00

1.353575854E+00

5.918546204E-01

2.274077971E-01

$ g-type functions

2 0 0

1.269677472E+00

5.691163392E-01

$ h-type functions

1 0 0

5.918546204E-01

a 109

$ Mt (Meitnerium)

$ s-type functions

33 0 0

7.638874251E+10

1.317720478E+10

2.575694581E+09

5.666240265E+08

1.393405681E+08

3.804473423E+07

1.145508552E+07

3.777820665E+06

1.355426517E+06

5.254781628E+05

2.186401114E+05

9.697368441E+04

4.553855642E+04

2.248838903E+04

1.159961494E+04

6.207080208E+03

3.422489442E+03

1.931346819E+03

1.107883845E+03

6.416473669E+02

3.726655494E+02

2.155833110E+02

1.233776534E+02

6.938023542E+01

3.807722973E+01

2.025711754E+01

1.037588377E+01

5.082297826E+00

2.364477061E+00

1.037773307E+00

4.267904585E-01

1.633518807E-01

5.779406272E-02

$ p-type functions

29 0 0

5.755650200E+08

1.349016120E+08

3.503527738E+07

1.001616229E+07

3.131455288E+06

1.063608612E+06

3.898970430E+05

1.532470777E+05

6.415792714E+04

2.842274420E+04

1.323673723E+04

6.437790575E+03

3.248444091E+03

1.689422606E+03

8.996368914E+02

4.873084703E+02

2.667412065E+02

1.465775327E+02

8.032995916E+01

4.361764630E+01

2.331112032E+01

1.218209559E+01

6.184156840E+00

3.029565326E+00

1.422863305E+00

6.364594906E-01

2.693672437E-01

1.071585735E-01

3.980694872E-02

$ d-type functions

20 0 0

1.185963344E+05

3.513914040E+04

1.182448378E+04

4.454509474E+03

1.851823860E+03

8.374078097E+02

4.060386094E+02

2.080875521E+02

1.111037626E+02

6.092152679E+01

3.381641690E+01

1.873072760E+01

1.020486837E+01

5.390652259E+00

2.721521875E+00

1.294417557E+00

5.717214211E-01

2.311519117E-01

8.432744089E-02

2.736240140E-02

$ f-type functions

15 0 0

5.856294209E+03

2.001753481E+03

7.913457506E+02

3.535780492E+02

1.744869762E+02

9.293831623E+01

5.221268271E+01

3.023444510E+01

1.763470280E+01

1.012441172E+01

5.591165182E+00

2.902425509E+00

1.384017042E+00

5.924323313E-01

2.224581828E-01

$ g-type functions

2 0 0

1.294417557E+00

5.717214211E-01

$ h-type functions

1 0 0

5.924323313E-01

a 110

$ Ds (Darmstadtium)

$ s-type functions

33 0 0

3.185183779E+10

6.177001982E+09

1.346597197E+09

3.278505701E+08

8.856334358E+07

2.637141548E+07

8.599551576E+06

3.051003104E+06

1.170026033E+06

4.818323822E+05

2.116925519E+05

9.857932944E+04

4.833907997E+04

2.479731689E+04

1.322106215E+04

7.278550445E+03

4.110568527E+03

2.365913639E+03

1.378787805E+03

8.082748806E+02

4.735276956E+02

2.754342188E+02

1.580294985E+02

8.885210881E+01

4.863715685E+01

2.575141121E+01

1.310170613E+01

6.363707242E+00

2.931632987E+00

1.272587431E+00

5.171372631E-01

1.954455387E-01

6.825099195E-02

$ p-type functions

29 0 0

1.223261983E+08

3.272488759E+07

9.628175214E+06

3.095583881E+06

1.080686114E+06

4.070432921E+05

1.643581719E+05

7.069314524E+04

3.218283081E+04

1.540840723E+04

7.709096023E+03

4.004856847E+03

2.146515387E+03

1.179424420E+03

6.601170629E+02

3.739488210E+02

2.130440344E+02

1.212881075E+02

6.856213410E+01

3.823783841E+01

2.090599642E+01

1.113377844E+01

5.738971598E+00

2.844926215E+00

1.347655856E+00

6.061550050E-01

2.572235443E-01

1.023259308E-01

3.791702769E-02

$ d-type functions

20 0 0

1.323046609E+05

3.846663199E+04

1.275210631E+04

4.749779874E+03

1.958681813E+03

8.811669527E+02

4.261489933E+02

2.183125695E+02

1.167387603E+02

6.420598718E+01

3.579028411E+01

1.992457126E+01

1.091571273E+01

5.799085837E+00

2.943854603E+00

1.407108571E+00

6.240197665E-01

2.530076330E-01

9.241415409E-02

2.996525698E-02

$ f-type functions

15 0 0

4.401782973E+03

1.549269058E+03

6.298166349E+02

2.889954477E+02

1.462709246E+02

7.980234936E+01

4.586322063E+01

2.713345873E+01

1.614871753E+01

9.448518691E+00

5.311078964E+00

2.802822979E+00

1.357072328E+00

5.891220392E-01

2.240799666E-01

$ g-type functions

2 0 0

1.407108571E+00

6.240197665E-01

$ h-type functions

1 0 0

5.891220392E-01

a 111

$ Rg (Roentgenium)

$ s-type functions

33 0 0

2.085267353E+10

4.502479501E+09

1.083453664E+09

2.887523549E+08

8.470037195E+07

2.717550898E+07

9.477431179E+06

3.570361340E+06

1.443877267E+06

6.229209797E+05

2.849103364E+05

1.372916161E+05

6.926732085E+04

3.636213040E+04

1.973762089E+04

1.100912584E+04

6.270633446E+03

3.624587059E+03

2.112915821E+03

1.234441147E+03

7.183086803E+02

4.137065219E+02

2.343700668E+02

1.297861771E+02

6.981668966E+01

3.625622458E+01

1.806285570E+01

8.579436253E+00

3.860891458E+00

1.635915739E+00

6.485847953E-01

2.391074380E-01

8.145690325E-02

$ p-type functions

29 0 0

1.234834278E+08

3.336221480E+07

9.898789768E+06

3.205123284E+06

1.125374764E+06

4.257883582E+05

1.724999423E+05

7.435960406E+04

3.389163413E+04

1.622966888E+04

8.114147563E+03

4.208686903E+03

2.250480184E+03

1.232772701E+03

6.874236159E+02

3.877518634E+02

2.198496247E+02

1.245071625E+02

6.998647151E+01

3.880068554E+01

2.108262191E+01

1.115640176E+01

5.713370102E+00

2.813737894E+00

1.324196311E+00

5.917699981E-01

2.495397474E-01

9.866590875E-02

3.634875108E-02

$ d-type functions

20 0 0

1.357086252E+05

3.932924789E+04

1.300627833E+04

4.835989588E+03

1.991949303E+03

8.955658293E+02

4.330207989E+02

2.218593353E+02

1.186779581E+02

6.530576632E+01

3.642401368E+01

2.028824944E+01

1.111955880E+01

5.908570735E+00

2.999127474E+00

1.432816960E+00

6.347979317E-01

2.569774369E-01

9.365584424E-02

3.027755990E-02

$ f-type functions

15 0 0

4.860160799E+03

1.662384943E+03

6.603607428E+02

2.975355651E+02

1.485059334E+02

8.019278640E+01

4.575648711E+01

2.694233386E+01

1.598903361E+01

9.340131171E+00

5.245257204E+00

2.765686508E+00

1.337213514E+00

5.790279148E-01

2.192999235E-01

$ g-type functions

2 0 0

1.432816960E+00

6.347979317E-01

$ h-type functions

1 0 0

5.790279148E-01

a 112

$ Cn (Copernicium)

$ s-type functions

33 0 0

2.108282684E+10

4.573622287E+09

1.105338746E+09

2.957512102E+08

8.706550015E+07

2.802505631E+07

9.802122105E+06

3.702195394E+06

1.500571077E+06

6.486407180E+05

2.971629349E+05

1.433904604E+05

7.242249152E+04

3.804929729E+04

2.066484677E+04

1.152981934E+04

6.567649583E+03

3.795657307E+03

2.211800554E+03

1.291454973E+03

7.508951661E+02

4.320544422E+02

2.444832789E+02

1.352084277E+02

7.262642582E+01

3.765427436E+01

1.872642991E+01

8.877878268E+00

3.987211427E+00

1.685883740E+00

6.669244659E-01

2.453063226E-01

8.337124612E-02

$ p-type functions

29 0 0

1.300260290E+08

3.501284602E+07

1.035476943E+07

3.342138814E+06

1.169862167E+06

4.412921456E+05

1.782600879E+05

7.662554576E+04

3.482889684E+04

1.663441987E+04

8.295308272E+03

4.292096318E+03

2.289673594E+03

1.251411112E+03

6.963120033E+02

3.919587177E+02

2.218014978E+02

1.253809191E+02

7.035522884E+01

3.894165417E+01

2.112713581E+01

1.116426647E+01

5.710027936E+00

2.808793878E+00

1.320475150E+00

5.895551667E-01

2.484034648E-01

9.814879216E-02

3.613778324E-02

$ d-type functions

20 0 0

1.483289387E+05

4.258110367E+04

1.396609422E+04

5.156159098E+03

2.111043575E+03

9.443084837E+02

4.546766470E+02

2.321612471E+02

1.238515335E+02

6.800860831E+01

3.787071330E+01

2.106912205E+01

1.153769377E+01

6.126993929E+00

3.108551196E+00

1.484489019E+00

6.574013679E-01

2.659776382E-01

9.686052382E-02

3.127965298E-02

$ f-type functions

15 0 0

5.253064437E+03

1.777356893E+03

6.991588779E+02

3.122639242E+02

1.546385738E+02

8.292191584E+01

4.701989687E+01

2.753342593E+01

1.625962232E+01

9.456657436E+00

5.289897380E+00

2.779358746E+00

1.339476566E+00

5.782613553E-01

2.183821511E-01

$ g-type functions

2 0 0

1.484489019E+00

6.574013679E-01

$ h-type functions

1 0 0

5.782613553E-01

a 113

$ Nh (Nihonium)

$ s-type functions

34 0 0

1.131293497E+09

2.897724691E+08

8.237719880E+07

2.582835061E+07

8.875600963E+06

3.321865111E+06

1.345615666E+06

5.862550266E+05

2.729922483E+05

1.350155934E+05

7.047889864E+04

3.858757982E+04

2.202018244E+04

1.301520196E+04

7.917885640E+03

4.926829572E+03

3.116000674E+03

1.990540060E+03

1.276319383E+03

8.162713571E+02

5.174497575E+02

3.230962690E+02

1.974683558E+02

1.173914796E+02

6.745603799E+01

3.723247924E+01

1.961605378E+01

9.803058155E+00

4.617888578E+00

2.037646972E+00

8.369311775E-01

3.179783466E-01

1.110513983E-01

3.542753103E-02

$ p-type functions

30 0 0

1.209875221E+08

3.628319508E+07

1.172242461E+07

4.060872167E+06

1.501253723E+06

5.894741273E+05

2.446776123E+05

1.068527041E+05

4.886316140E+04

2.328763205E+04

1.151223871E+04

5.875270847E+03

3.080864595E+03

1.652102189E+03

9.017034710E+02

4.985354878E+02

2.778925354E+02

1.554351055E+02

8.682718776E+01

4.821028648E+01

2.648158694E+01

1.432226097E+01

7.590762480E+00

3.923814147E+00

1.968899845E+00

9.544956513E-01

4.449409516E-01

1.984960476E-01

8.434617061E-02

3.397706505E-02

$ d-type functions

20 0 0

1.829843809E+05

5.078035226E+04

1.619988400E+04

5.853328868E+03

2.359984169E+03

1.046094010E+03

5.022594538E+02

2.573484888E+02

1.386409546E+02

7.737099667E+01

4.406785321E+01

2.523846667E+01

1.431995740E+01

7.930462055E+00

4.223510522E+00

2.131117086E+00

1.003783382E+00

4.348224606E-01

1.706724933E-01

5.980465789E-02

$ f-type functions

16 0 0

6.061512197E+03

2.102649666E+03

8.469429526E+02

3.870834731E+02

1.961463613E+02

1.076819632E+02

6.258275556E+01

3.762507132E+01

2.286508612E+01

1.372470872E+01

7.951153577E+00

4.344259748E+00

2.187368679E+00

9.917693489E-01

4.191252281E-01

1.708768740E-01

$ g-type functions

1 0 0

4.348224606E-01

a 114

$ Fl (Flerovium)

$ s-type functions

34 0 0

1.163178205E+09

2.978670463E+08

8.465653219E+07

2.653579341E+07

9.116099209E+06

3.410854122E+06

1.381230502E+06

6.015751139E+05

2.800309446E+05

1.384479167E+05

7.224417508E+04

3.953912316E+04

2.255437476E+04

1.332557281E+04

8.103340562E+03

5.040077122E+03

3.186228608E+03

2.034487934E+03

1.303897685E+03

8.335159119E+02

5.281265917E+02

3.296003846E+02

2.013421462E+02

1.196329361E+02

6.870806038E+01

3.790331976E+01

1.995865258E+01

9.968765294E+00

4.693312603E+00

2.069747304E+00

8.496238153E-01

3.226111043E-01

1.126022331E-01

3.590058520E-02

$ p-type functions

30 0 0

1.227702699E+08

3.670864401E+07

1.182829234E+07

4.087822024E+06

1.508050121E+06

5.910593423E+05

2.449489350E+05

1.068284261E+05

4.879805987E+04

2.323594702E+04

1.147883841E+04

5.855350480E+03

3.069466394E+03

1.645756392E+03

8.982527260E+02

4.967061178E+02

2.769530115E+02

1.549729636E+02

8.661372045E+01

4.812115079E+01

2.645096473E+01

1.431663244E+01

7.594019820E+00

3.928906703E+00

1.973233546E+00

9.574799631E-01

4.467483680E-01

1.994876328E-01

8.484501812E-02

3.420831874E-02

$ d-type functions

20 0 0

1.641582037E+05

4.581440041E+04

1.470182618E+04

5.344414902E+03

2.168295154E+03

9.672878372E+02

4.674572444E+02

2.411052387E+02

1.307614501E+02

7.346675940E+01

4.212790455E+01

2.429105601E+01

1.387555110E+01

7.735905211E+00

4.147236822E+00

2.106313806E+00

9.984667335E-01

4.352313368E-01

1.718749128E-01

6.058154515E-02

$ f-type functions

16 0 0

6.243459480E+03

2.144899078E+03

8.570726498E+02

3.891948860E+02

1.962297425E+02

1.073297874E+02

6.222185241E+01

3.735444958E+01

2.268966010E+01

1.362414911E+01

7.901254328E+00

4.324117189E+00

2.181841190E+00

9.917051987E-01

3.967211204E-01

1.364711458E-01

$ g-type functions

1 0 0

4.352313368E-01

a 115

$ Mc (Moscovium)

$ s-type functions

34 0 0

1.144533099E+09

2.932328518E+08

8.342479566E+07

2.619026615E+07

9.015937198E+06

3.381987691E+06

1.373685516E+06

6.003724295E+05

2.805667871E+05

1.393149900E+05

7.304146594E+04

4.018048088E+04

2.304617040E+04

1.369570427E+04

8.379843463E+03

5.245867906E+03

3.338817464E+03

2.146969409E+03

1.386056276E+03

8.927331684E+02

5.700490826E+02

3.586051955E+02

2.208506199E+02

1.323190456E+02

7.663934101E+01

4.264329960E+01

2.265079514E+01

1.141336448E+01

5.421325429E+00

2.412252684E+00

9.991475359E-01

3.828158585E-01

1.348241428E-01

4.337373649E-02

$ p-type functions

30 0 0

4.479724833E+08

1.175663853E+08

3.376699856E+07

1.055393302E+07

3.569306982E+06

1.298782049E+06

5.055994286E+05

2.093774502E+05

9.171521477E+04

4.225480780E+04

2.035960040E+04

1.020130797E+04

5.285317378E+03

2.815464145E+03

1.533302209E+03

8.488666393E+02

4.750291152E+02

2.671807495E+02

1.501859770E+02

8.389344013E+01

4.630587933E+01

2.511243899E+01

1.330519959E+01

6.848078762E+00

3.404599783E+00

1.625730184E+00

7.413974121E-01

3.210768334E-01

1.312977545E-01

5.041167904E-02

$ d-type functions

20 0 0

1.903961793E+05

5.146141220E+04

1.610531894E+04

5.745971606E+03

2.300946361E+03

1.018217938E+03

4.902398158E+02

2.528438306E+02

1.375353837E+02

7.768500251E+01

4.486037919E+01

2.607558550E+01

1.502079528E+01

8.442710000E+00

4.558723590E+00

2.328195522E+00

1.107268121E+00

4.828204522E-01

1.900467259E-01

6.648433892E-02

$ f-type functions

16 0 0

7.684321028E+03

2.561463930E+03

9.943065057E+02

4.392887128E+02

2.158867410E+02

1.153443946E+02

6.548020793E+01

3.860246819E+01

2.309723541E+01

1.370860510E+01

7.887934667E+00

4.300496042E+00

2.171238062E+00

9.921524606E-01

4.237904511E-01

1.747613563E-01

$ g-type functions

1 0 0

4.828204522E-01

a 116

$ Lv (Livermorium)

$ s-type functions

34 0 0

1.122767680E+09

2.878291312E+08

8.193658343E+07

2.573849731E+07

8.865734687E+06

3.327640889E+06

1.352422306E+06

5.914340485E+05

2.765555754E+05

1.374056479E+05

7.208365406E+04

3.967738300E+04

2.277126907E+04

1.354045981E+04

8.289828112E+03

5.192632018E+03

3.306918178E+03

2.127733376E+03

1.374462166E+03

8.857969362E+02

5.659594694E+02

3.562461945E+02

2.195294835E+02

1.316064485E+02

7.627235365E+01

4.246457333E+01

2.256939888E+01

1.137917570E+01

5.408329849E+00

2.407914535E+00

9.979492780E-01

3.825862379E-01

1.348241428E-01

4.339976854E-02

$ p-type functions

30 0 0

4.479724833E+08

1.175663853E+08

3.376699856E+07

1.055393302E+07

3.569306982E+06

1.298782049E+06

5.055994286E+05

2.093774502E+05

9.171521477E+04

4.225480780E+04

2.035960040E+04

1.020130797E+04

5.285317378E+03

2.815464145E+03

1.533302209E+03

8.488666393E+02

4.750291152E+02

2.671807495E+02

1.501859770E+02

8.389344013E+01

4.630587933E+01

2.511243899E+01

1.330519959E+01

6.848078762E+00

3.404599783E+00

1.625730184E+00

7.413974121E-01

3.210768334E-01

1.312977545E-01

5.041167904E-02

$ d-type functions

20 0 0

1.903961793E+05

5.146141220E+04

1.610531894E+04

5.745971606E+03

2.300946361E+03

1.018217938E+03

4.902398158E+02

2.528438306E+02

1.375353837E+02

7.768500251E+01

4.486037919E+01

2.607558550E+01

1.502079528E+01

8.442710000E+00

4.558723590E+00

2.328195522E+00

1.107268121E+00

4.828204522E-01

1.900467259E-01

6.648433892E-02

$ f-type functions

16 0 0

7.684321028E+03

2.561463930E+03

9.943065057E+02

4.392887128E+02

2.158867410E+02

1.153443946E+02

6.548020793E+01

3.860246819E+01

2.309723541E+01

1.370860510E+01

7.887934667E+00

4.300496042E+00

2.171238062E+00

9.921524606E-01

4.237904511E-01

1.747613563E-01

$ g-type functions

1 0 0

4.828204522E-01

a 117

$ Ts (Tennessine)

$ s-type functions

34 0 0

1.141841937E+09

2.918903814E+08

8.286815020E+07

2.596398577E+07

8.921394185E+06

3.340669674E+06

1.354676420E+06

5.911539961E+05

2.758611238E+05

1.367939772E+05

7.162948806E+04

3.935744564E+04

2.254934540E+04

1.338673734E+04

8.182972752E+03

5.118053471E+03

3.254750293E+03

2.091276531E+03

1.349111912E+03

8.683383976E+02

5.541104505E+02

3.483628011E+02

2.144159535E+02

1.283908569E+02

7.432322912E+01

4.133236969E+01

2.194285299E+01

1.105082563E+01

5.246346791E+00

2.333144783E+00

9.658520430E-01

3.698499163E-01

1.301811929E-01

4.185434601E-02

$ p-type functions

30 0 0

4.784578224E+08

1.243694227E+08

3.540801103E+07

1.097822046E+07

3.685780047E+06

1.332350471E+06

5.156128015E+05

2.124073778E+05

9.261487525E+04

4.249929101E+04

2.040783633E+04

1.019650006E+04

5.270705182E+03

2.802685103E+03

1.524377100E+03

8.432330213E+02

4.716984193E+02

2.653184252E+02

1.492042256E+02

8.341230170E+01

4.609341717E+01

2.503410520E+01

1.328722087E+01

6.852825883E+00

3.414784102E+00

1.634704893E+00

7.475195929E-01

3.246664798E-01

1.331706520E-01

5.129326569E-02

$ d-type functions

20 0 0

2.161145567E+05

5.809088197E+04

1.807671913E+04

6.411566785E+03

2.552036501E+03

1.122362053E+03

5.369671033E+02

2.751542517E+02

1.486838675E+02

8.341723198E+01

4.784066793E+01

2.761426317E+01

1.579463813E+01

8.813961053E+00

4.724578083E+00

2.395138448E+00

1.130626425E+00

4.892983931E-01

1.911348265E-01

6.635329185E-02

$ f-type functions

16 0 0

7.983093920E+03

2.648541794E+03

1.023412488E+03

4.501636484E+02

2.203096394E+02

1.172485508E+02

6.632235108E+01

3.897250552E+01

2.325253273E+01

1.376775928E+01

7.906874846E+00

4.304895419E+00

2.171720972E+00

9.921941523E-01

4.012435442E-01

1.403801650E-01

$ g-type functions

1 0 0

4.892983931E-01

a 118

$ Og (Oganesson)

$ s-type functions

34 0 0

2.071964018E+09

5.301488499E+08

1.503723109E+08

4.698962258E+07

1.607717238E+07

5.985502346E+06

2.409818666E+06

1.042726813E+06

4.819131009E+05

2.364223532E+05

1.223600220E+05

6.639438632E+04

3.753821146E+04

2.197737349E+04

1.324181740E+04

8.160158428E+03

5.111382397E+03

3.234271980E+03

2.054578234E+03

1.302226124E+03

8.184220023E+02

5.068797694E+02

3.074531769E+02

1.815135178E+02

1.036584046E+02

5.690824886E+01

2.984906108E+01

1.486553265E+01

6.986090693E+00

3.078941974E+00

1.264712835E+00

4.811883248E-01

1.685312984E-01

5.400052454E-02

$ p-type functions

30 0 0

1.408529131E+08

3.975684308E+07

1.229601995E+07

4.141649590E+06

1.510037690E+06

5.923213424E+05

2.484457951E+05

1.107541765E+05

5.215455954E+04

2.578562586E+04

1.330349692E+04

7.118790432E+03

3.926886758E+03

2.219431972E+03

1.277427045E+03

7.441846355E+02

4.361392105E+02

2.555753265E+02

1.488372337E+02

8.561554894E+01

4.834945786E+01

2.664268533E+01

1.423840437E+01

7.334847801E+00

3.620069129E+00

1.701328242E+00

7.567533725E-01

3.166395371E-01

1.238710898E-01

4.503169884E-02

$ d-type functions

20 0 0

2.261010778E+05

6.042632993E+04

1.871682507E+04

6.615058404E+03

2.626297267E+03

1.153123803E+03

5.512428991E+02

2.824608453E+02

1.527336868E+02

8.579972773E+01

4.929747068E+01

2.852096249E+01

1.635752864E+01

9.155842898E+00

4.924013846E+00

2.504918778E+00

1.186682780E+00

5.154130384E-01

2.020547612E-01

7.038641788E-02

$ f-type functions

16 0 0

5.513409311E+03

1.951885538E+03

7.990207819E+02

3.697735404E+02

1.891437630E+02

1.045516921E+02

6.106007927E+01

3.683624292E+01

2.244343719E+01

1.350218011E+01

7.841936484E+00

4.298847609E+00

2.174675668E+00

9.925561074E-01

4.228175752E-01

1.739032346E-01

$ g-type functions

1 0 0

5.154130384E-01