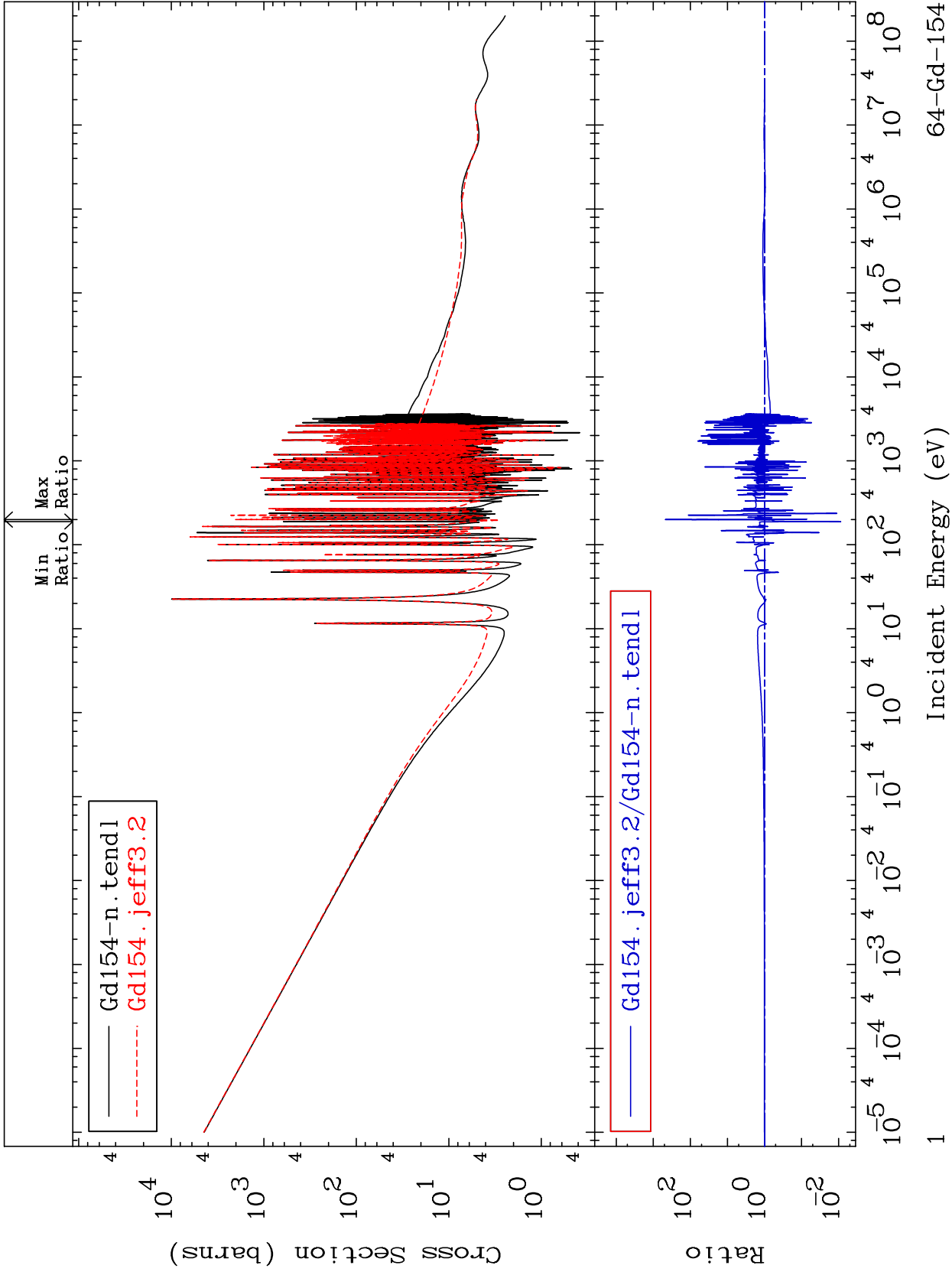


MAT 6431

Total
Cross Section

64-Gd-154
-99.12 To 9999. %



64-Gd-154

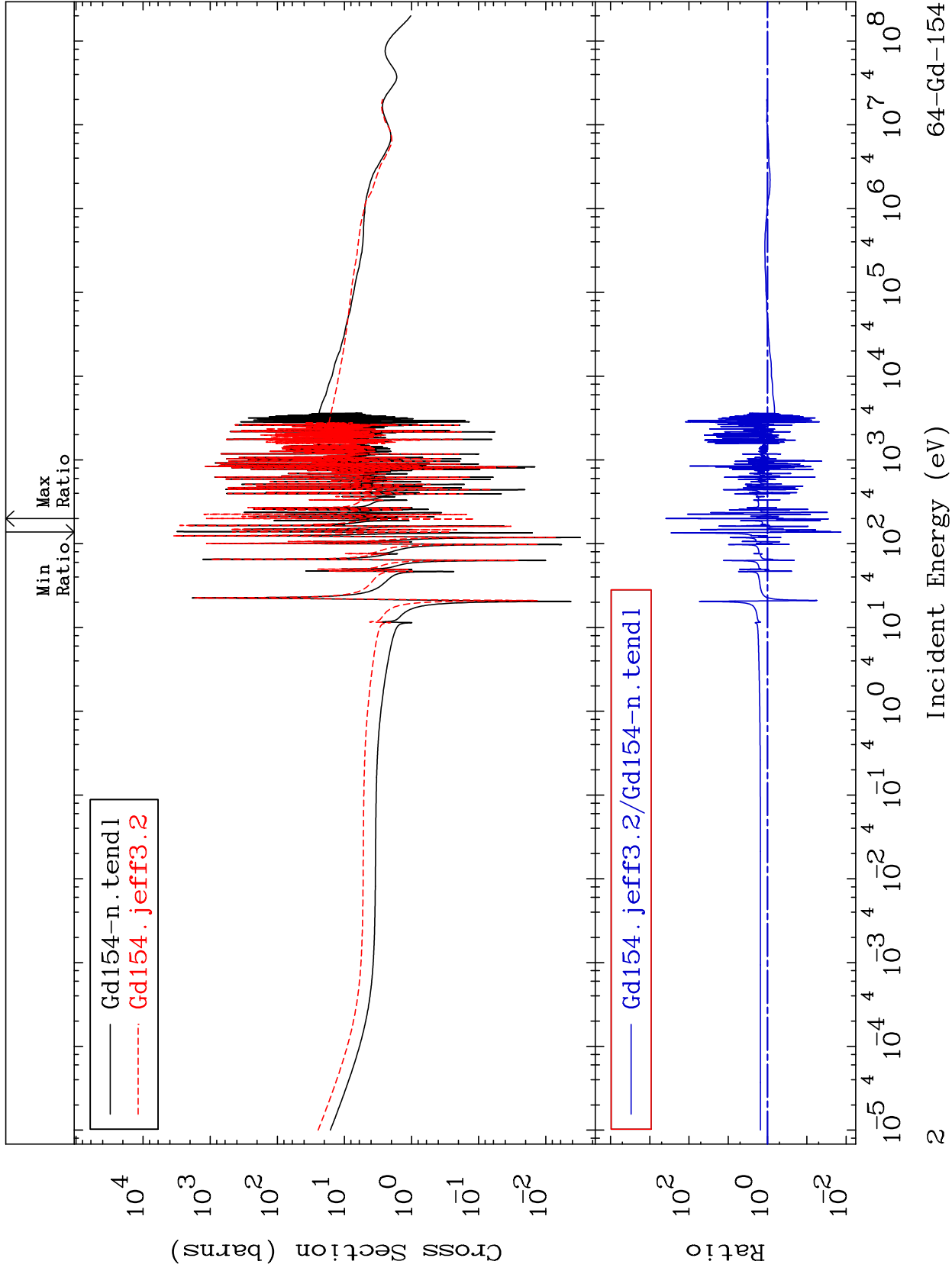
MAT 6431

Elastic

64-Gd-154

Cross Section

-98.64 To 9999. %



2

Incident Energy (eV)

64-Gd-154

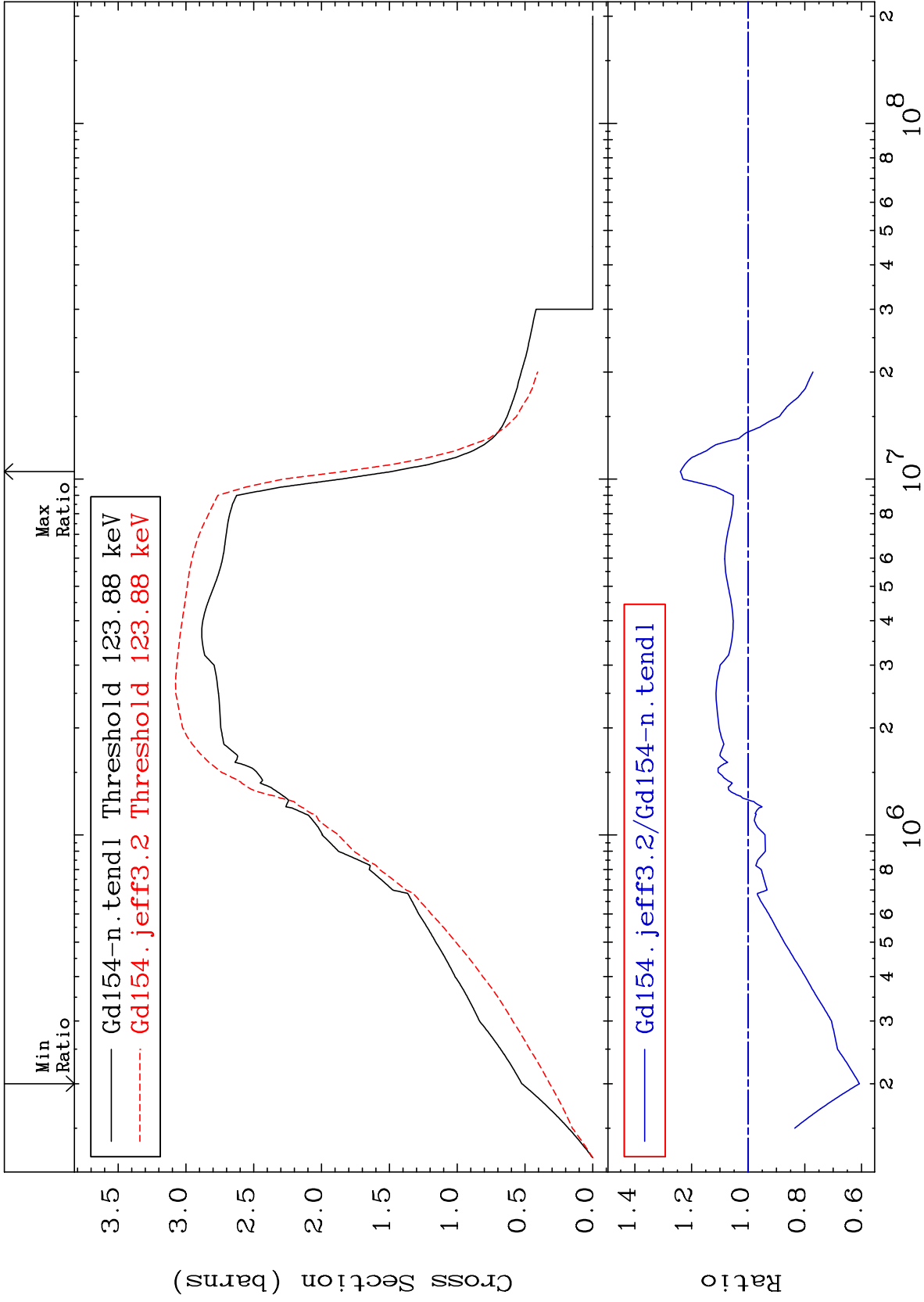
MAT 6431

Inelastic

64-Gd-154

Cross Section

-39.24 To 23.93 %



64-Gd-154

3

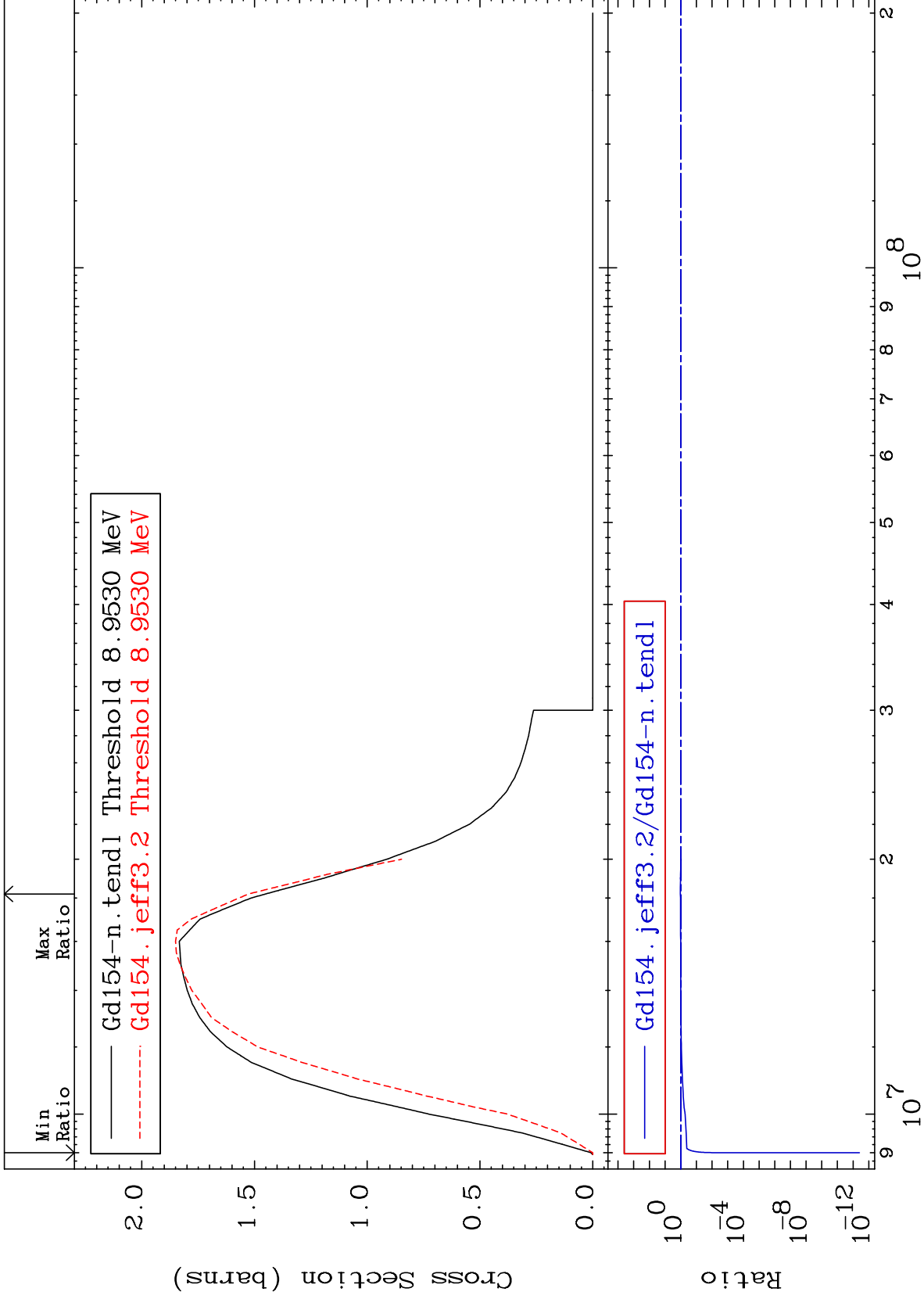
MAT 6431

(n,2n)

64-Gd-154

Cross Section

-100.0 To 5.225 %



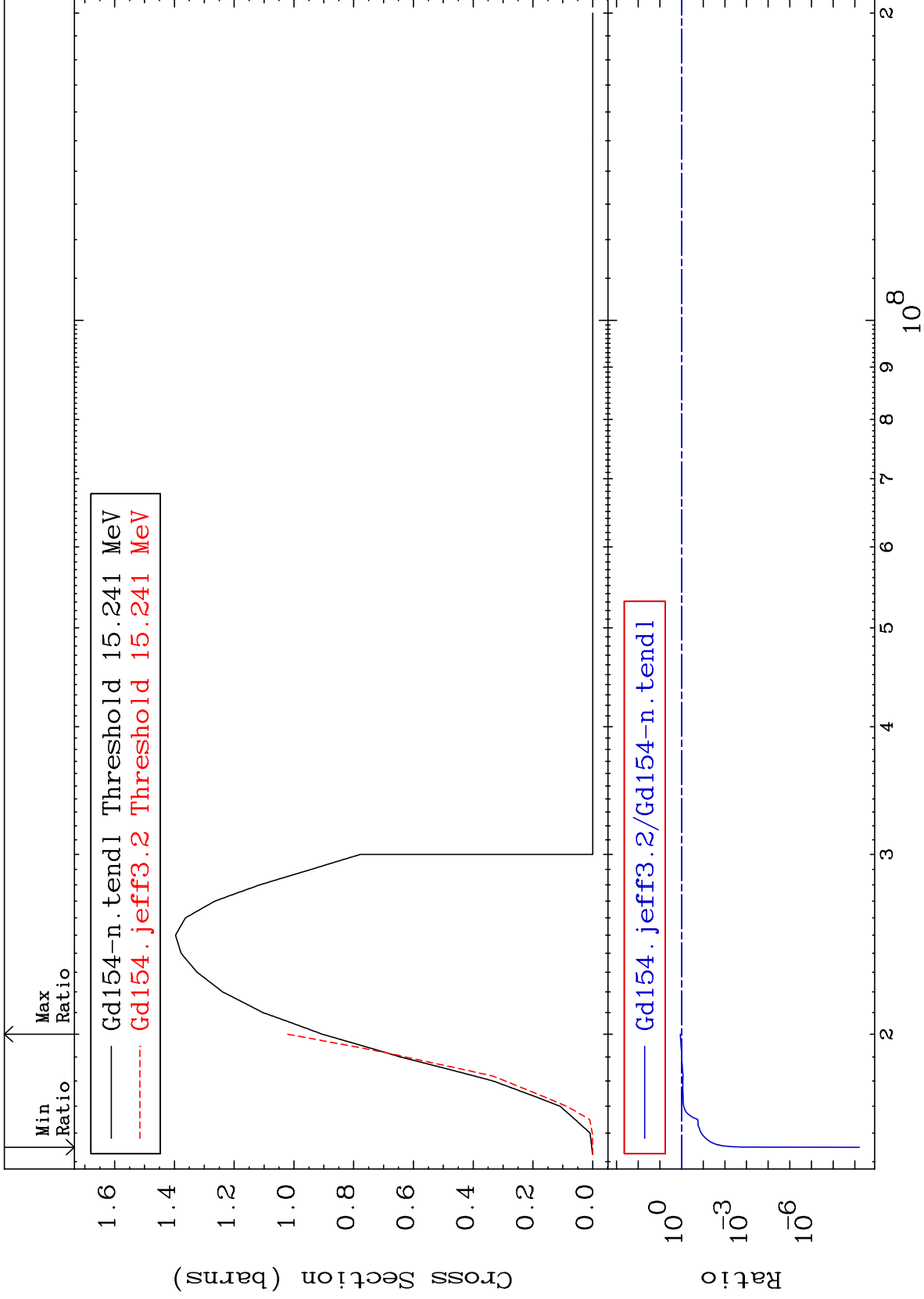
Incident Energy (eV)

64-Gd-154

4

Cross Section

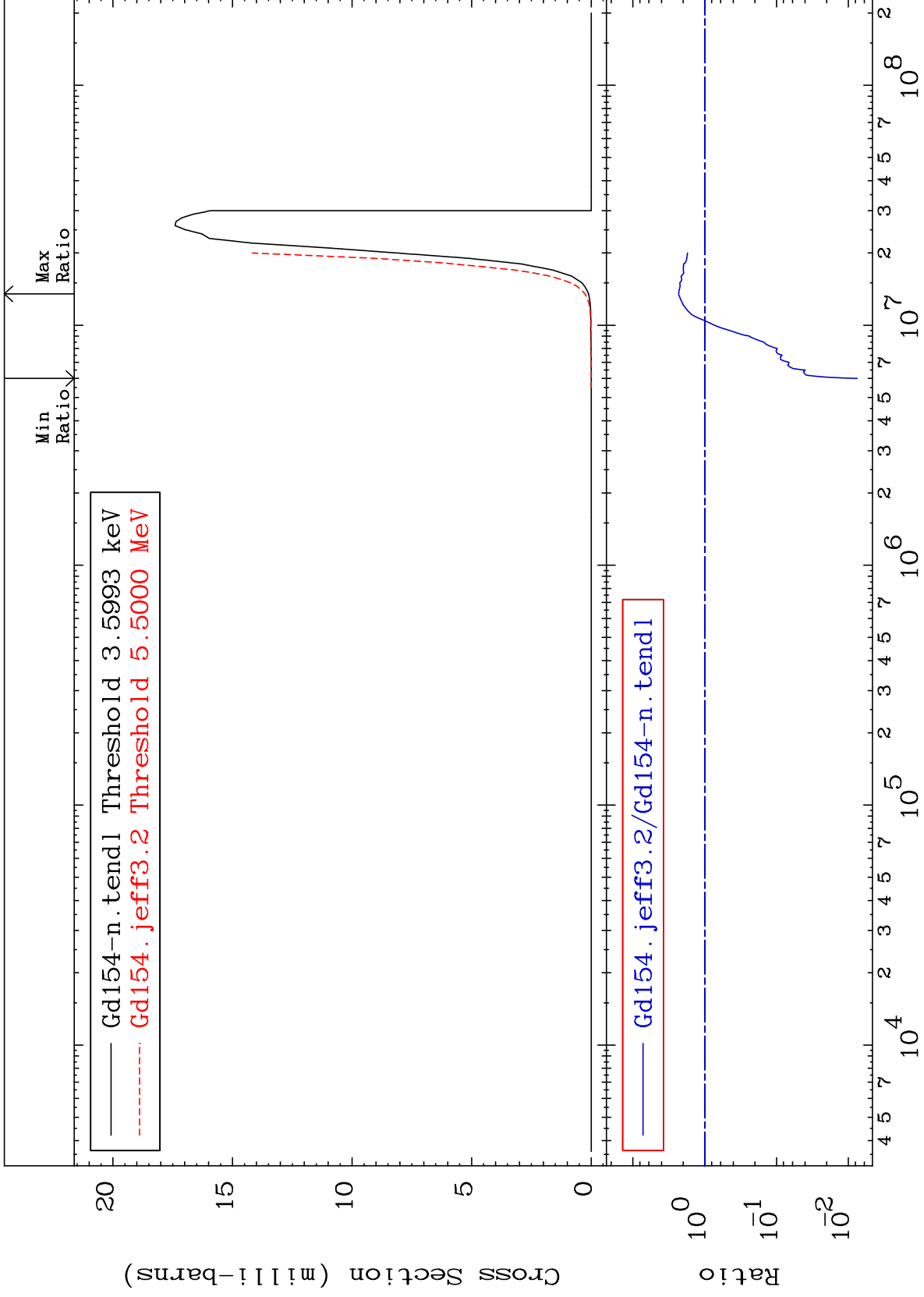
-100.0 To 12.84 %



MAT 6431

$(n, n') \alpha$
Cross Section

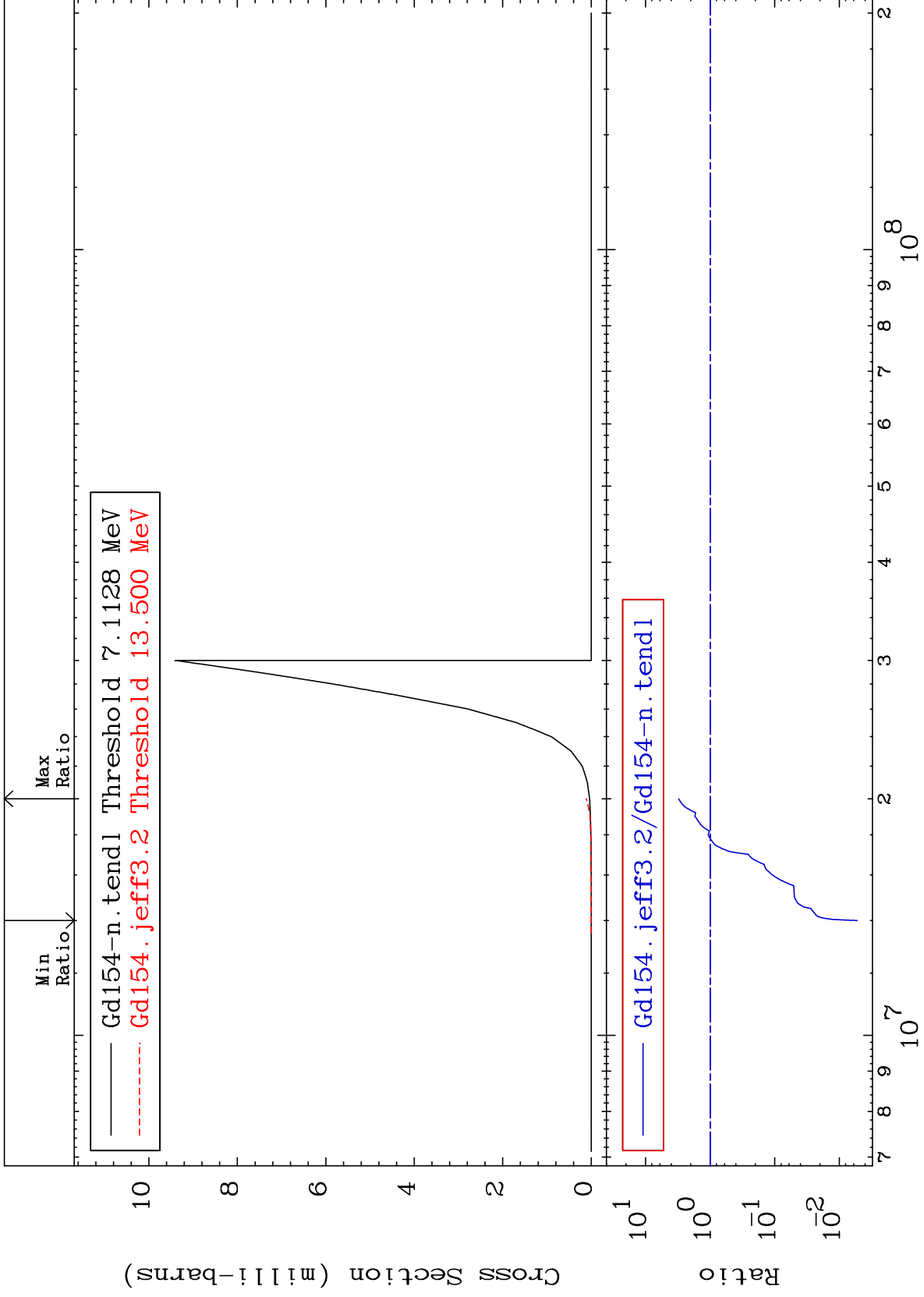
64-Gd-154
-99.25 To 130.7 %



MAT 6431

(n,2n) α
Cross Section

64-Gd-154
-99.47 To 207.3 %



7

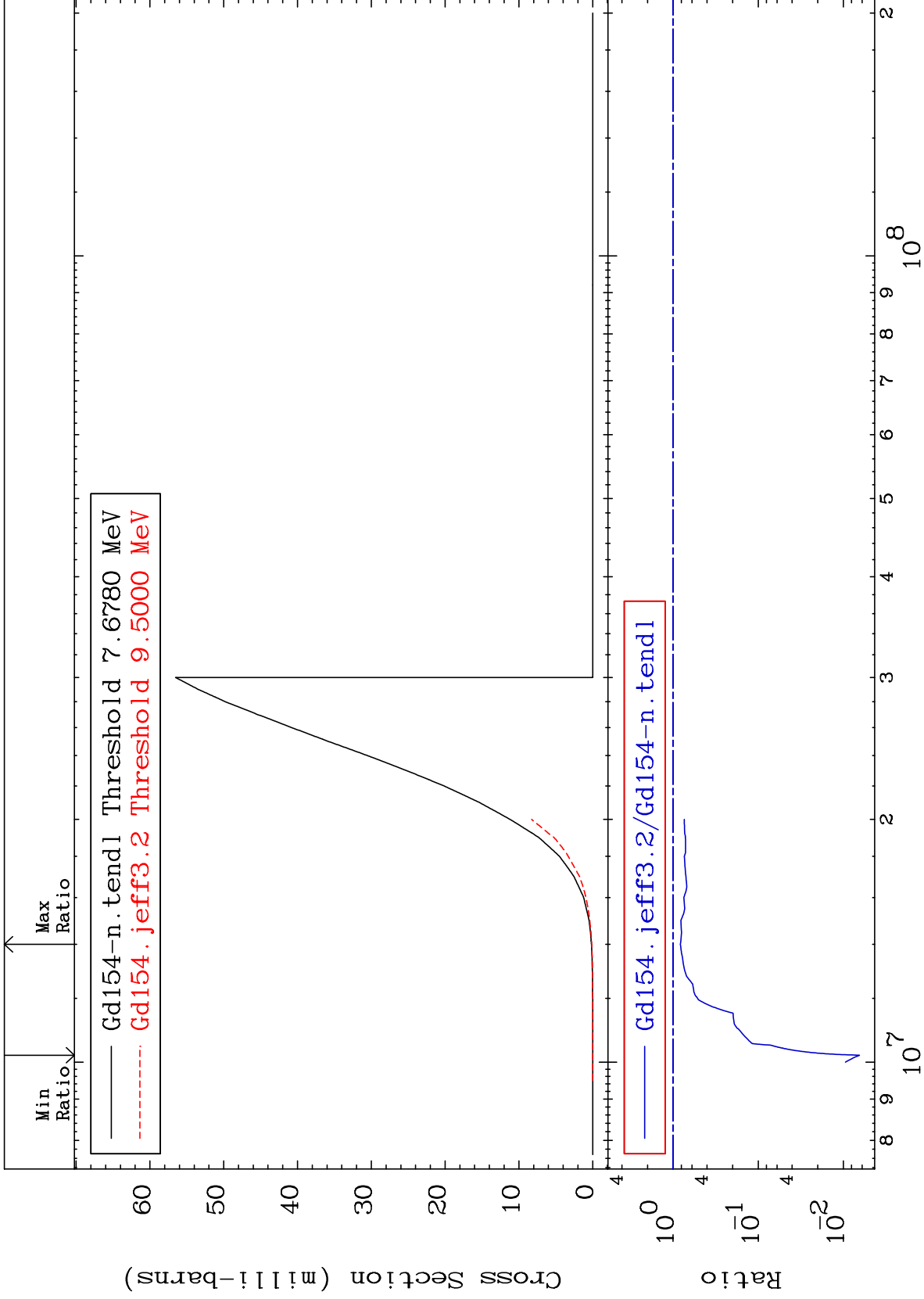
Incident Energy (eV)

64-Gd-154

MAT 6431

(n,n') p
Cross Section

64-Gd-154
-99.35 To -17.81%



8

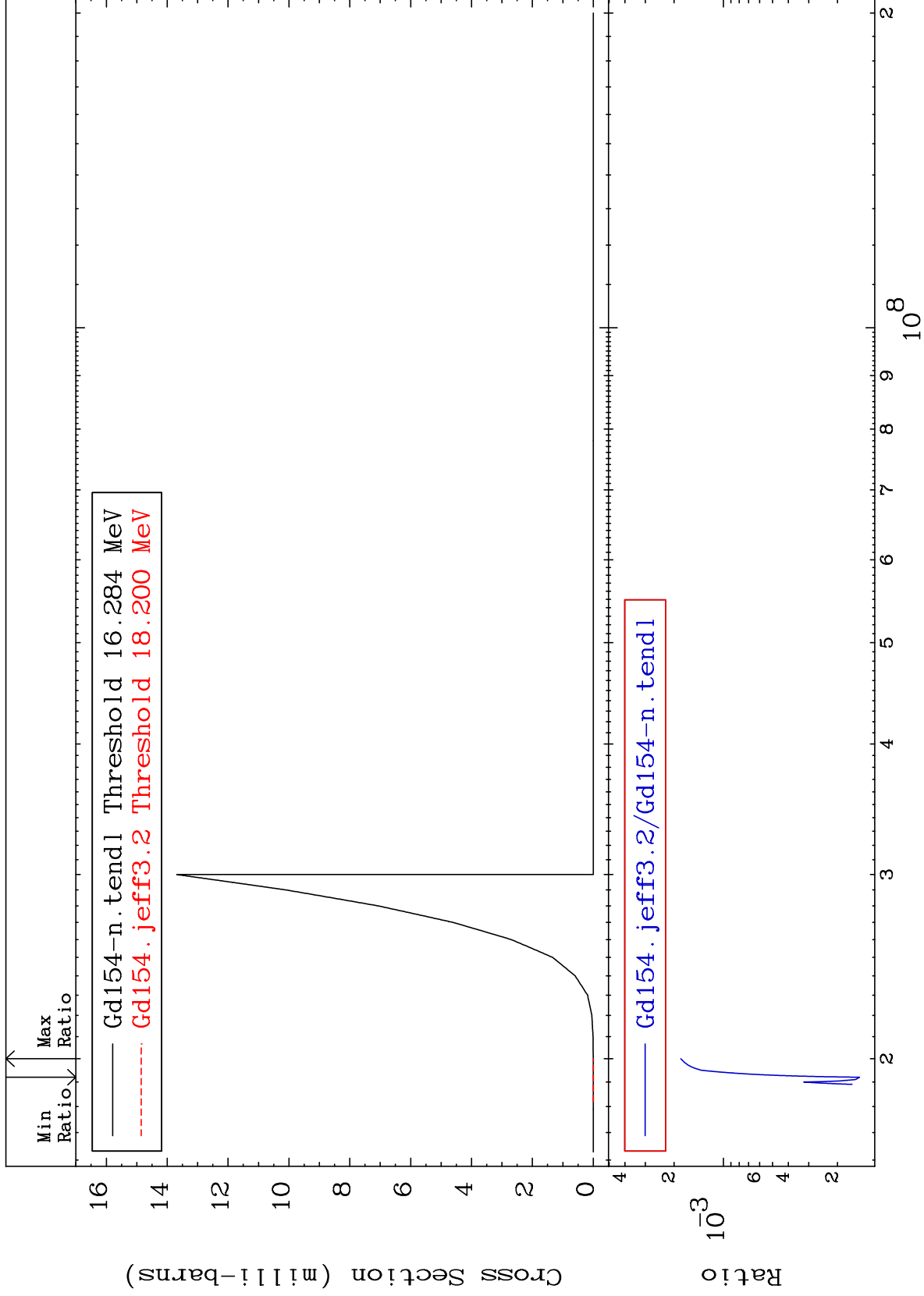
Incident Energy (eV)

64-Gd-154

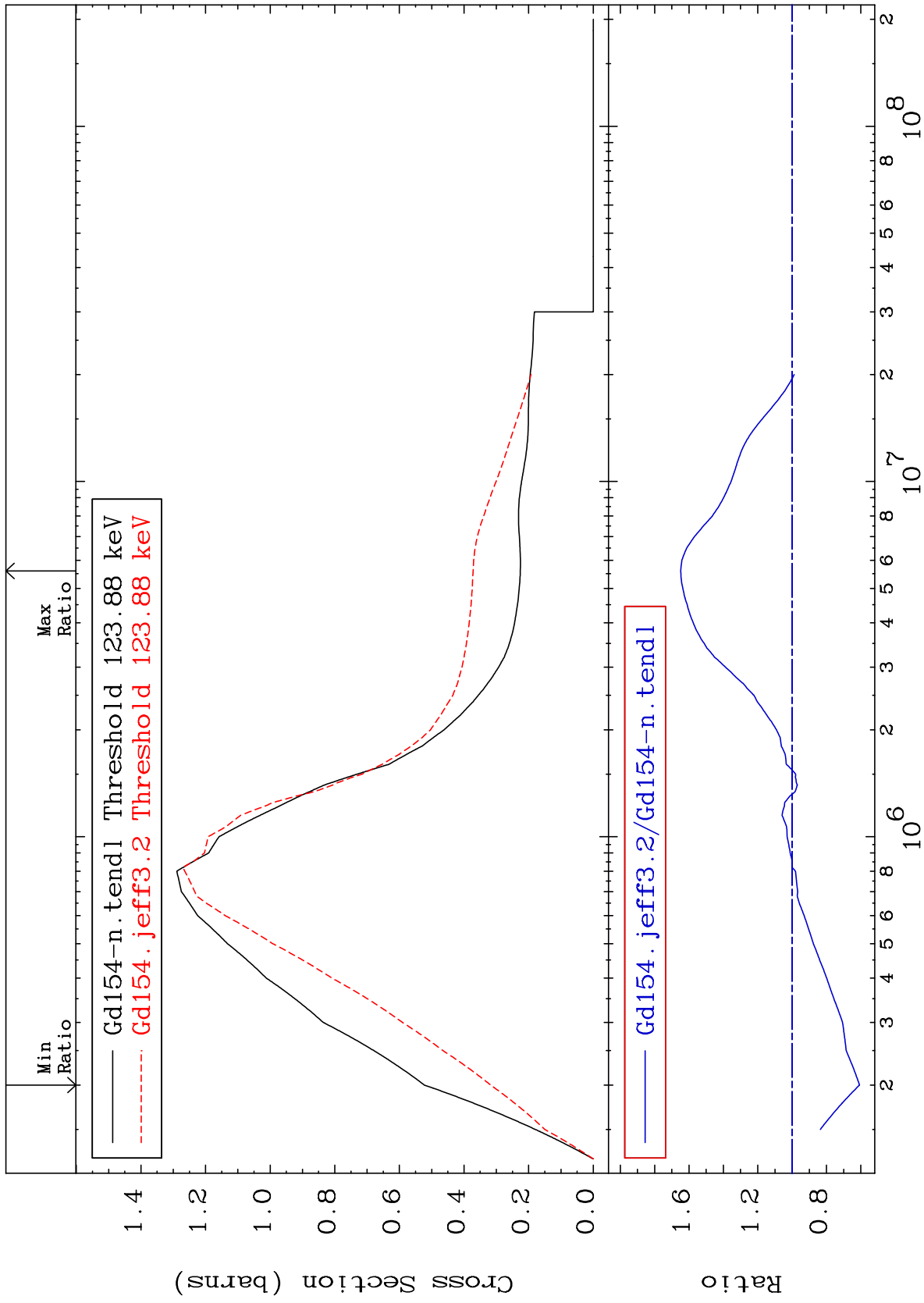
MAT 6431

(n,2n) p
Cross Section

64-Gd-154
-99.99 To -99.82%

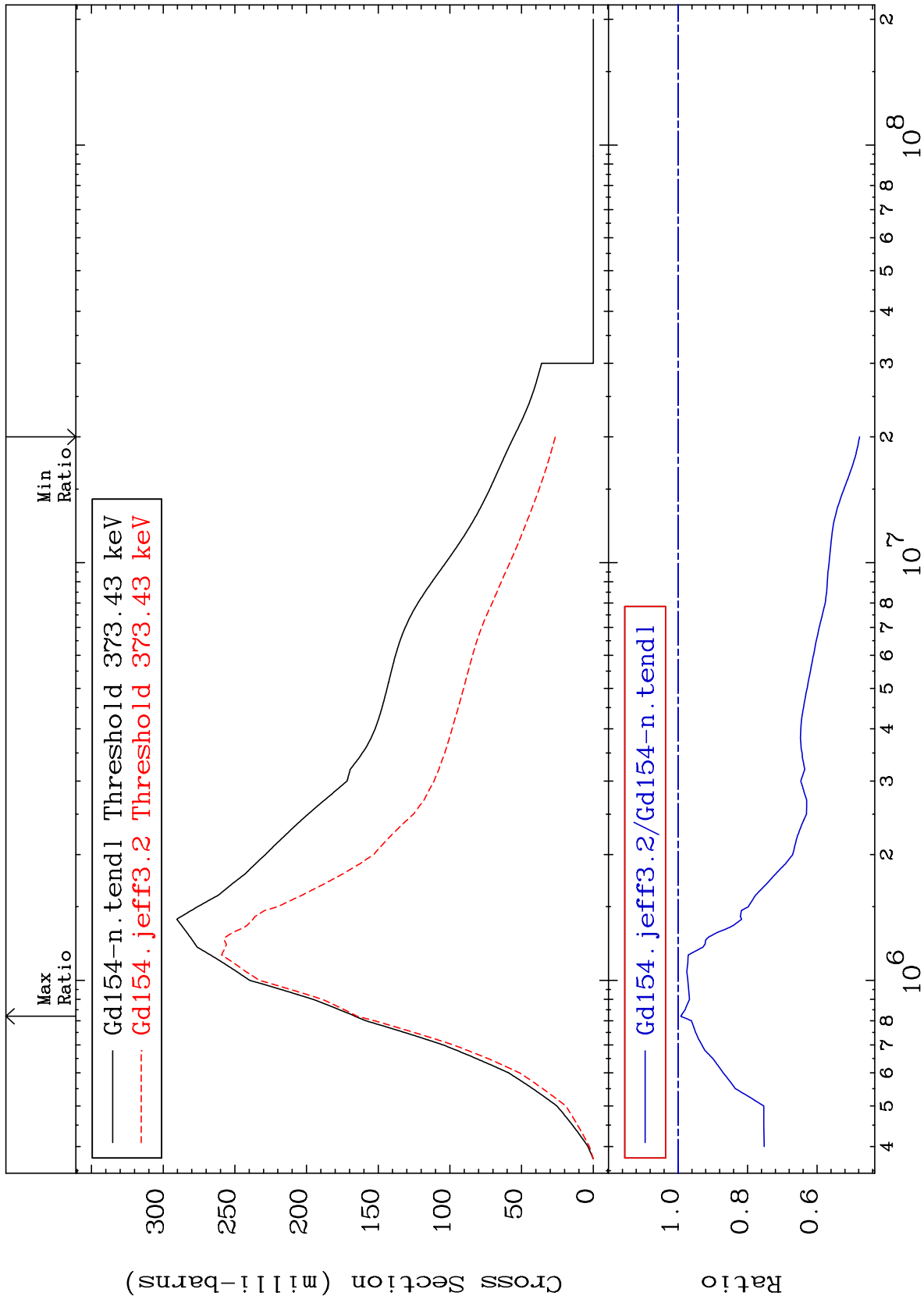


MAT 6431 123.1 keV (n,n') Level 64-Gd-154
 Cross Section -39.24 To 64.80 %



10 64-Gd-154

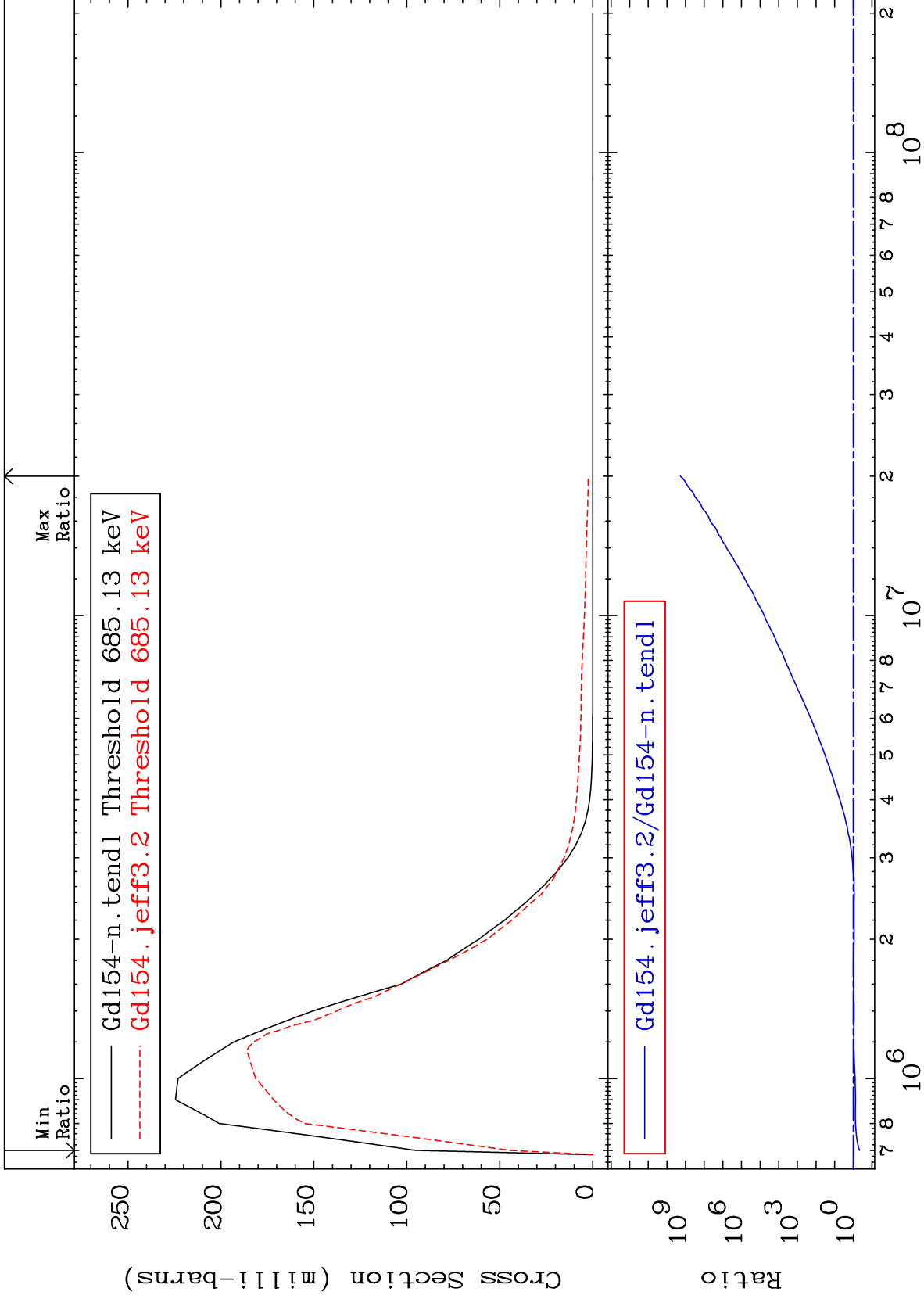
MAT 6431 371.0 keV (n,n') Level 64-Gd-154
 Cross Section -52.22 To -0.800%



MAT 6431

680.7 keV (n,n') Level
Cross Section

64-Gd-154
-53.12 To 9999. %



12

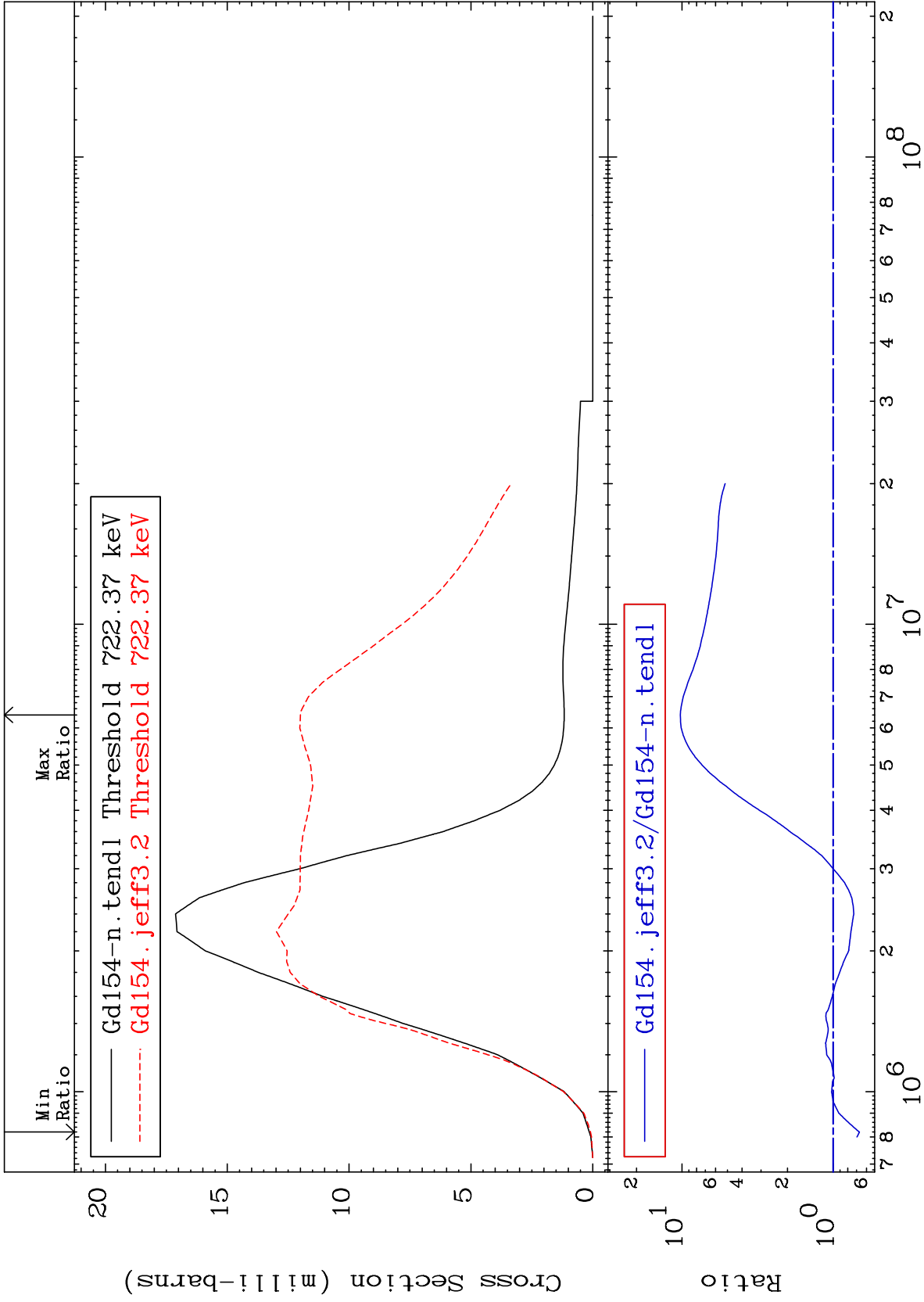
Incident Energy (eV)

64-Gd-154

MAT 6431

717.7 keV (n,n') Level
Cross Section

64-Gd-154
-33.10 To 924.7 %



13

Incident Energy (eV)

64-Gd-154

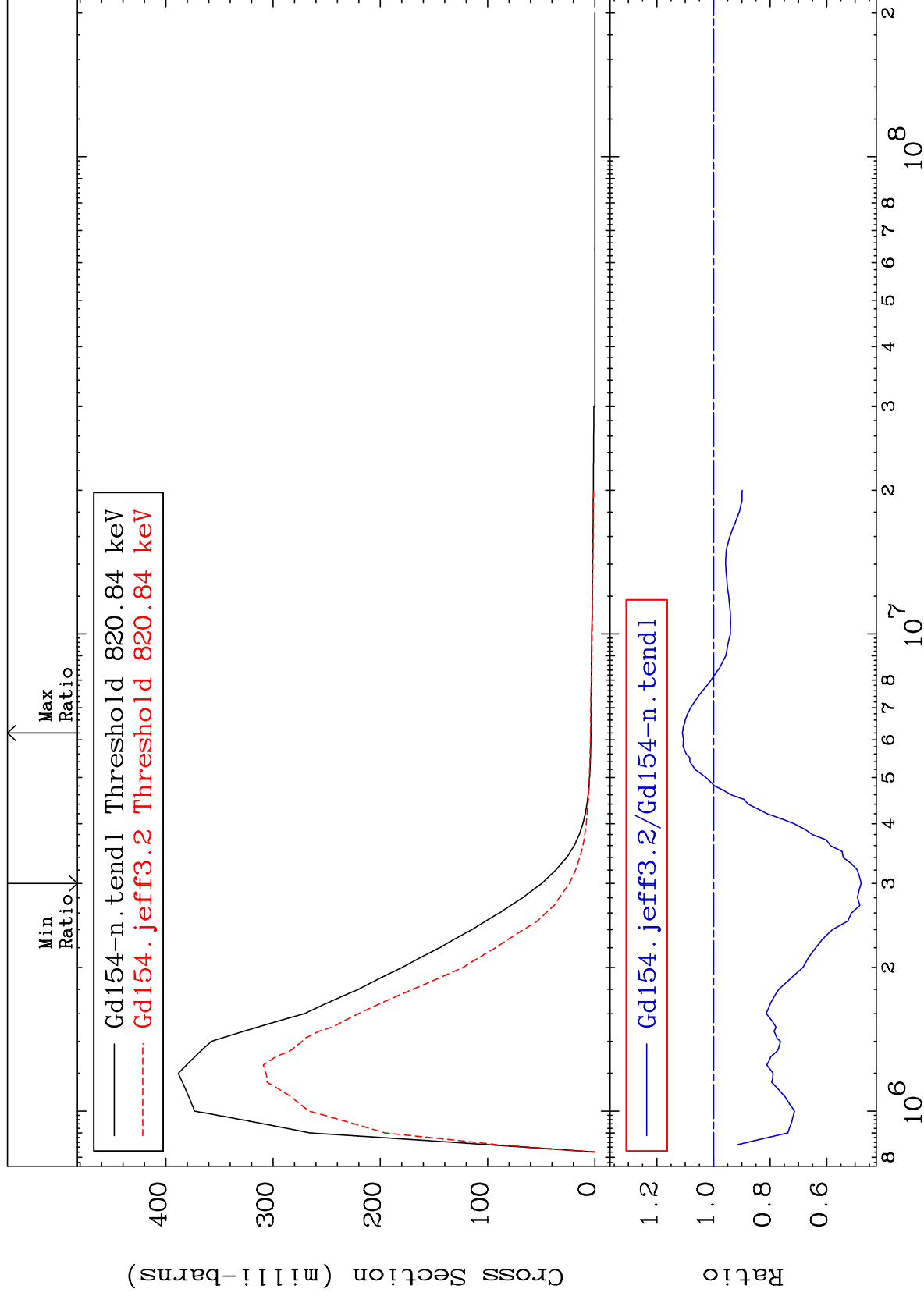
MAT 6431

815.5 keV (n,n') Level

64-Gd-154

-52.10 To 10.99 %

Cross Section



14

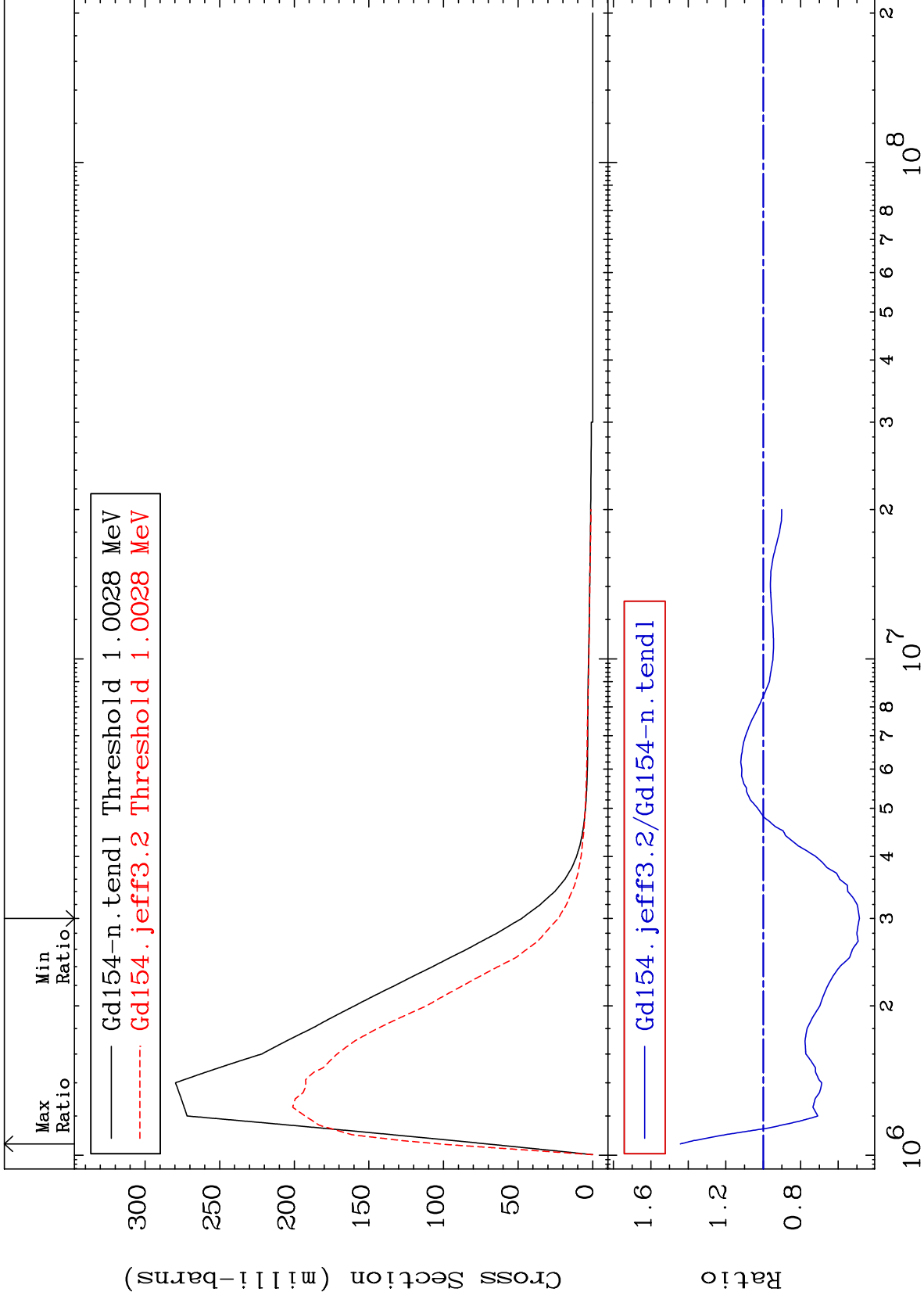
Incident Energy (eV)

64-Gd-154

MAT 6431

996.3 keV (n,n') Level
Cross Section

64-Gd-154
-51.35 To 44.24 %



15

Incident Energy (eV)

64-Gd-154

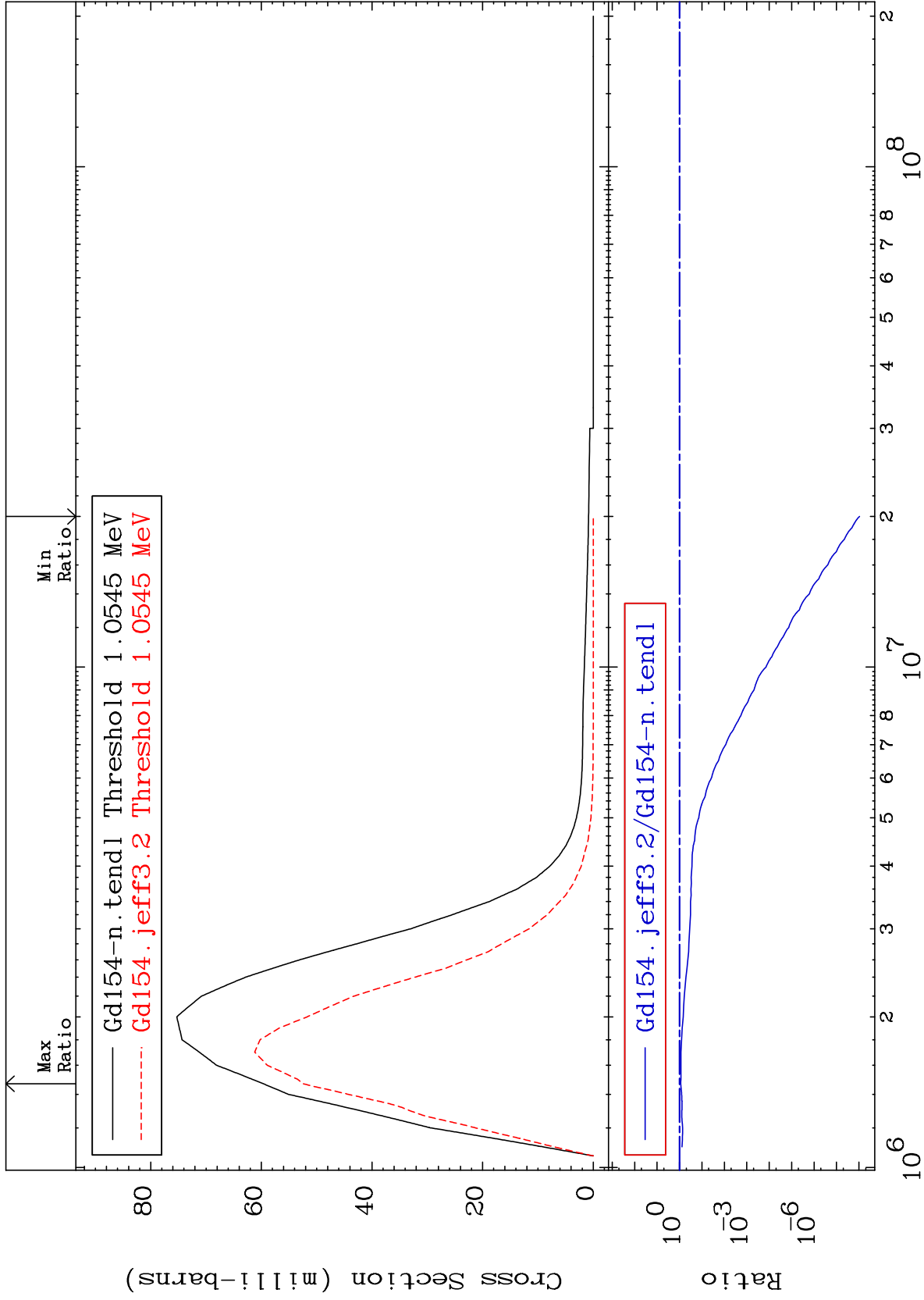
MAT 6431

1.048 MeV (n,n') Level

64-Gd-154

-100.0 To -12.07%

Cross Section



16

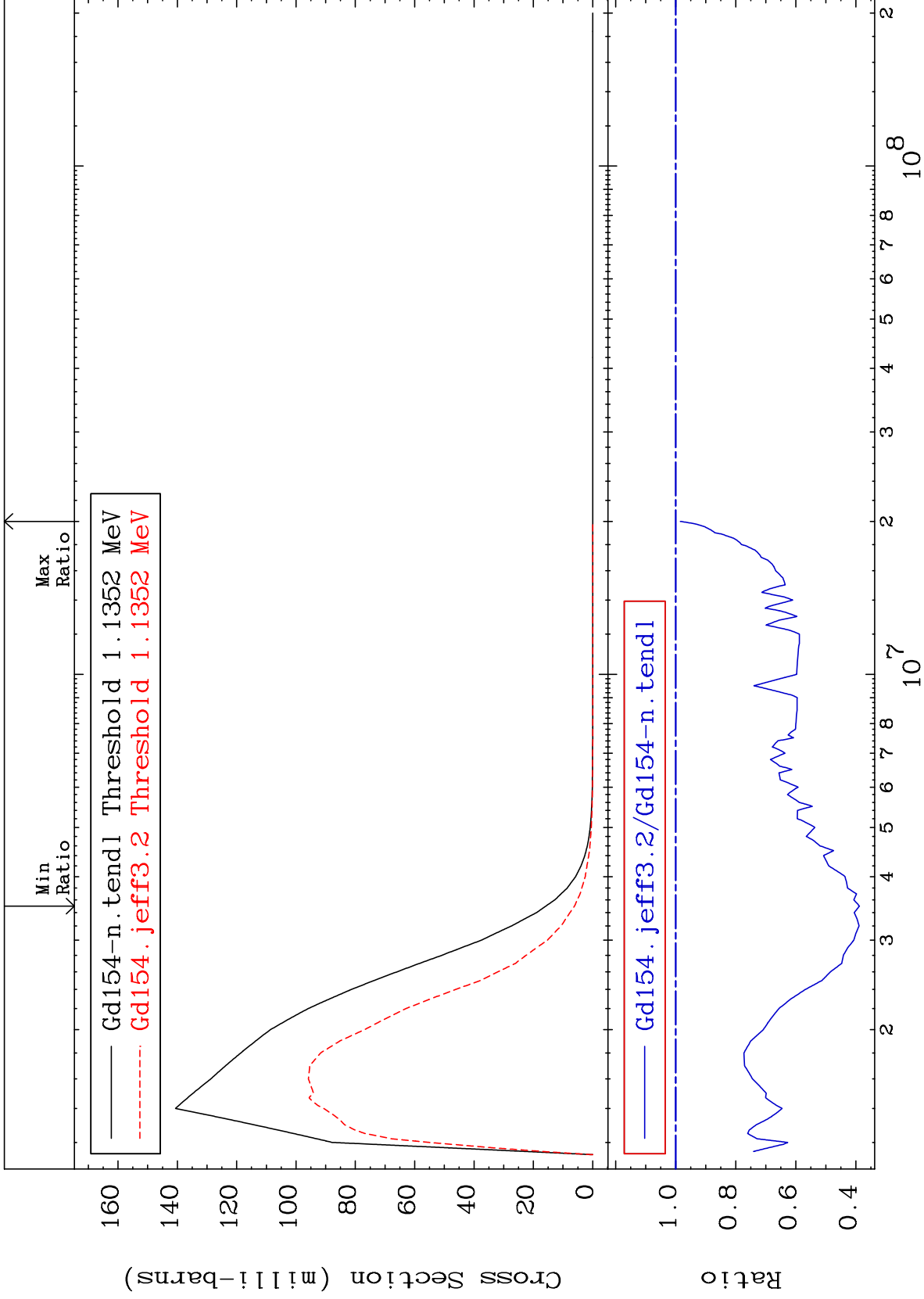
64-Gd-154

64-Gd-154

MAT 6431

1.128 MeV (n,n') Level
Cross Section

64-Gd-154
-61.21 To -1.534%



17

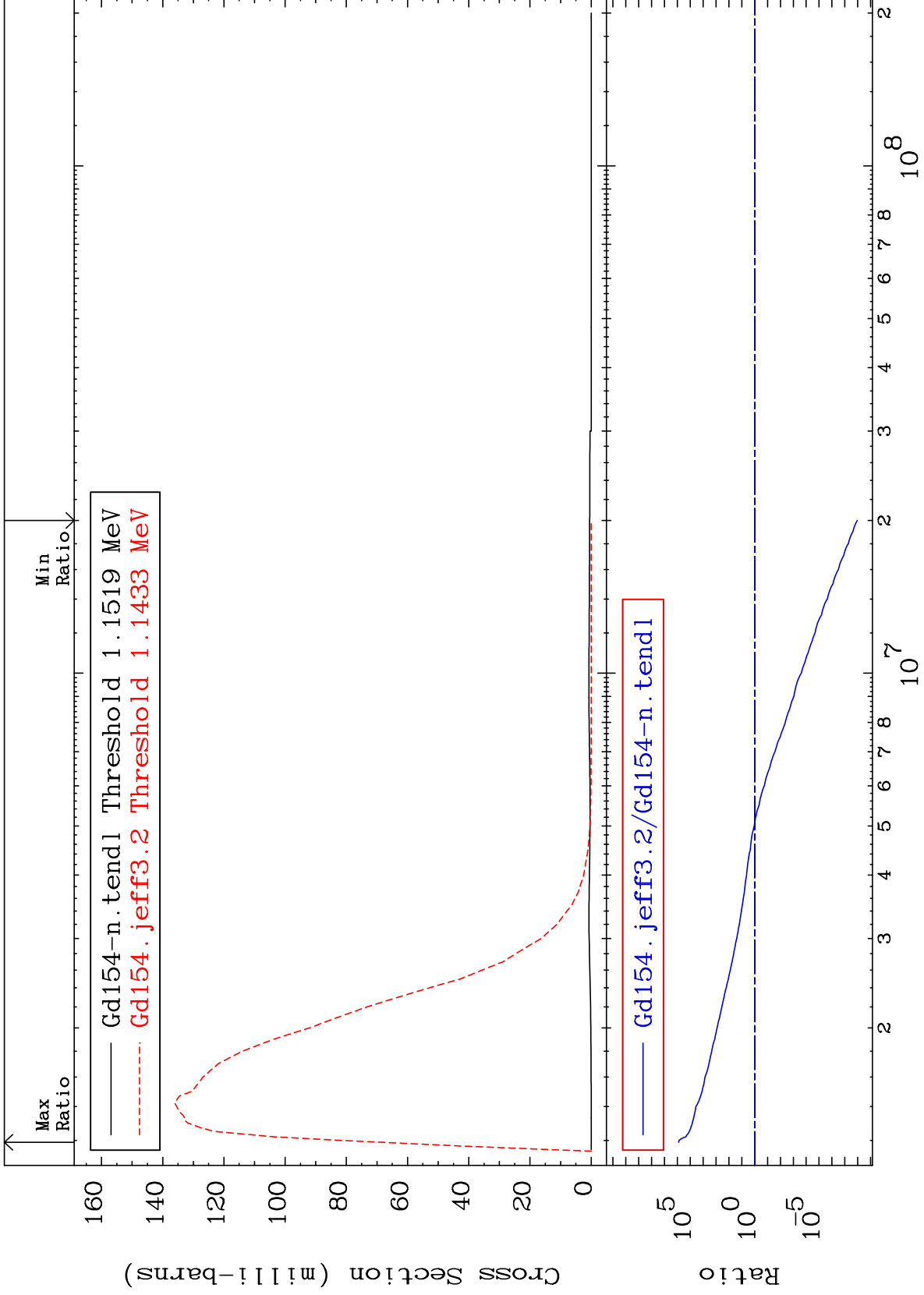
Incident Energy (eV)

64-Gd-154

MAT 6431

1.144 MeV (n,n') Level
Cross Section

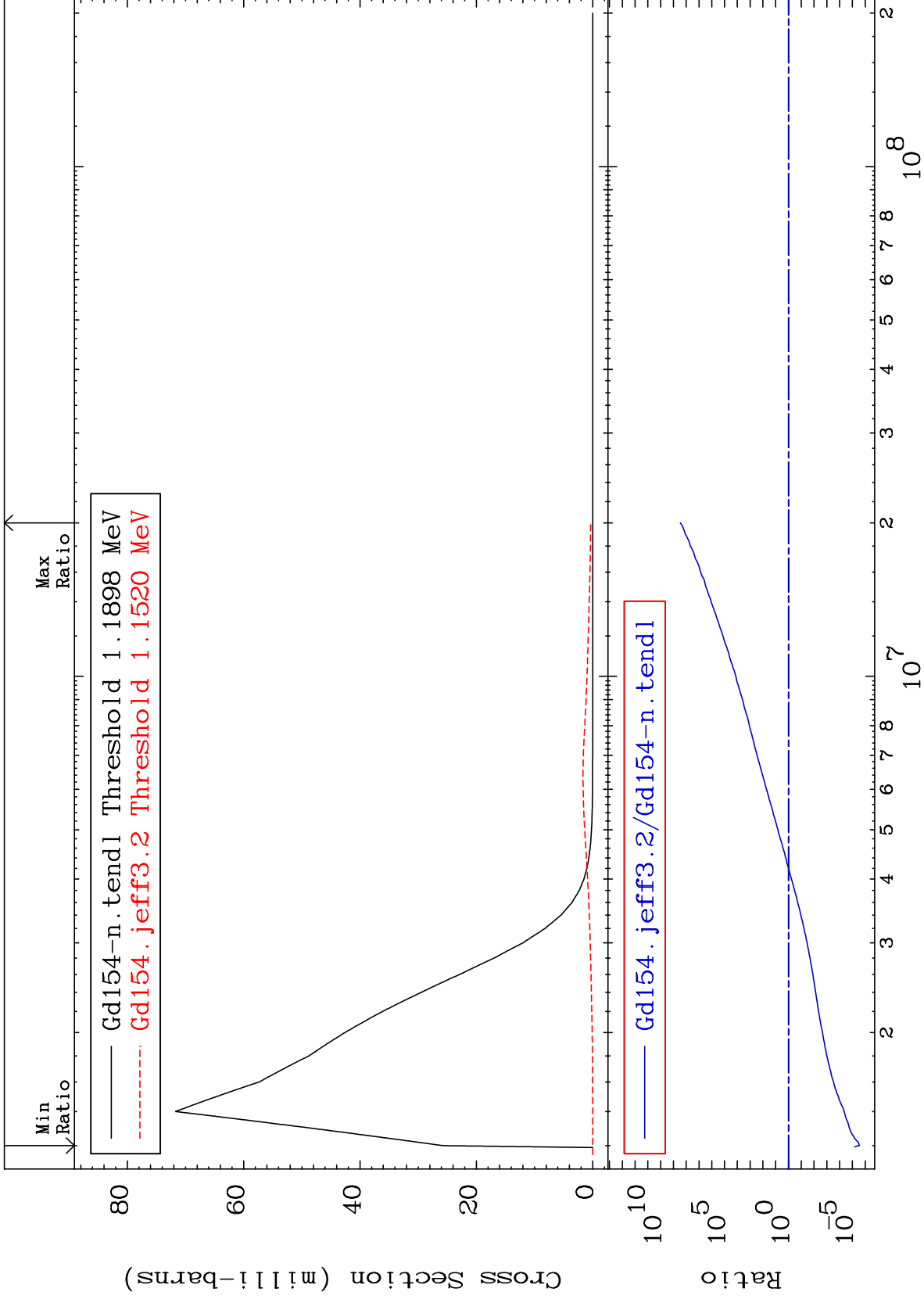
64-Gd-154
-100.0 To 9999. %



MAT 6431

1.182 MeV (n,n') Level
Cross Section

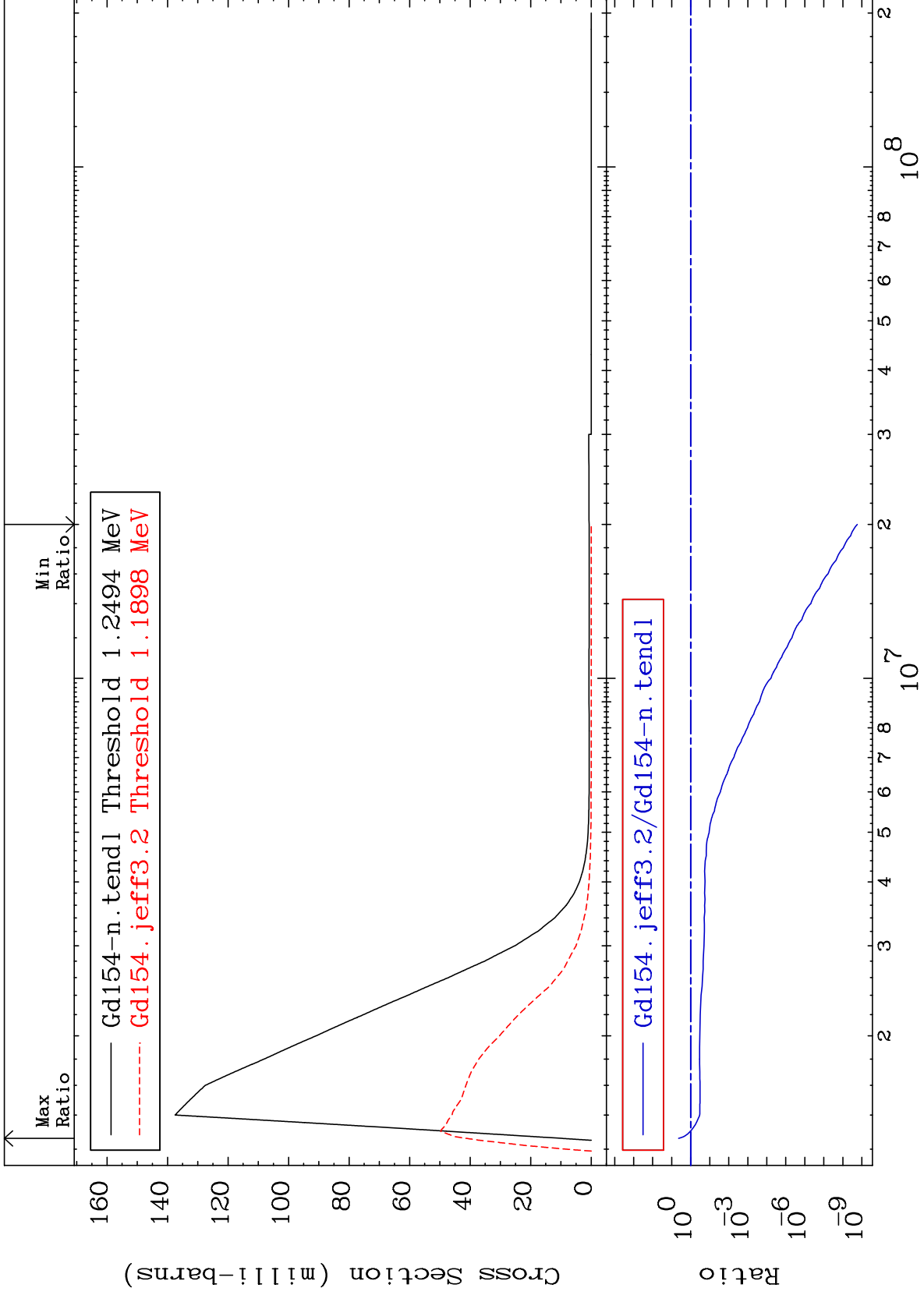
64-Gd-154
-100.0 To 9999. %



MAT 6431

1.241 MeV (n,n') Level
Cross Section

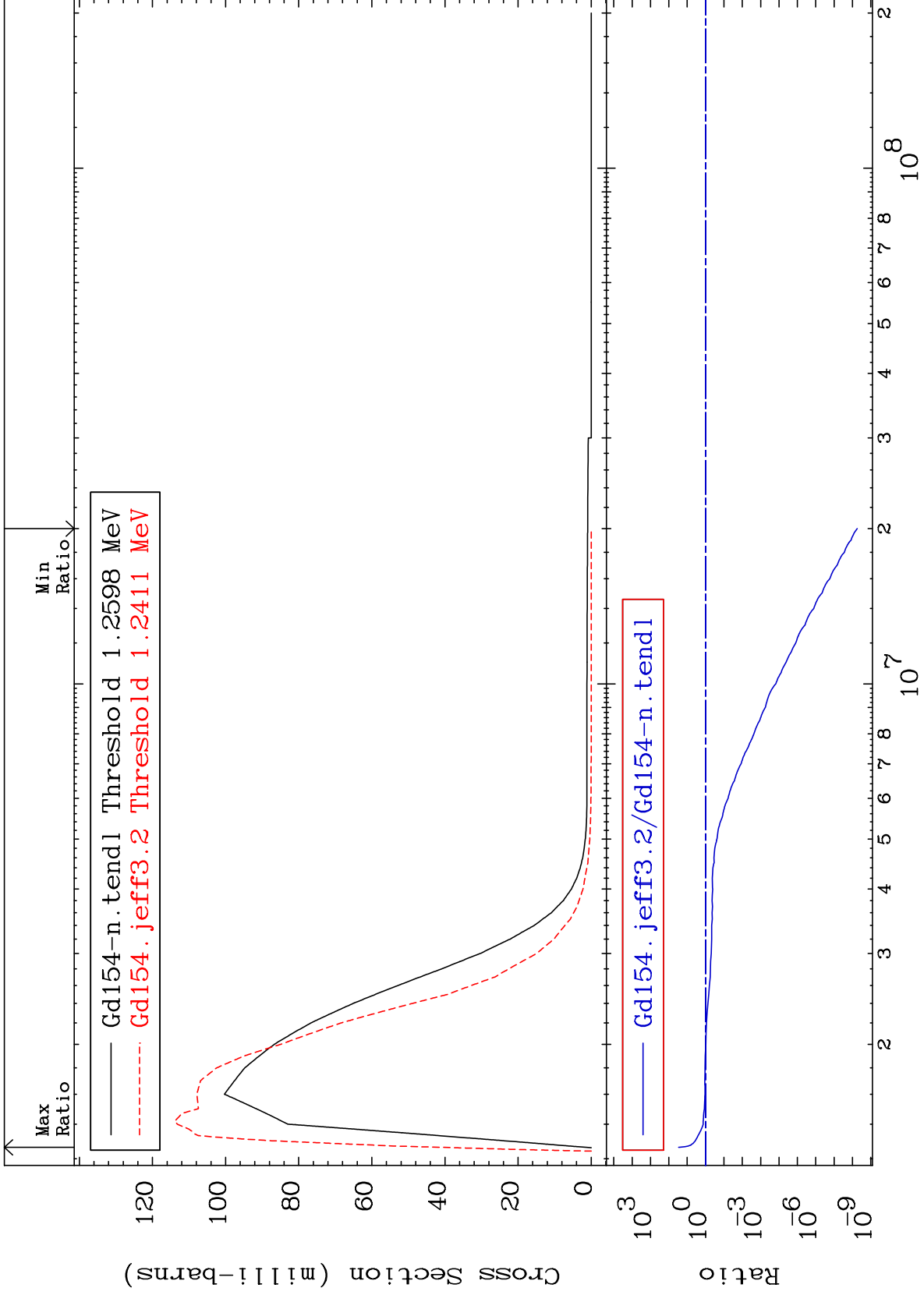
64-Gd-154
-100.0 To 331.9 %



MAT 6431

1.252 MeV (n,n') Level
Cross Section

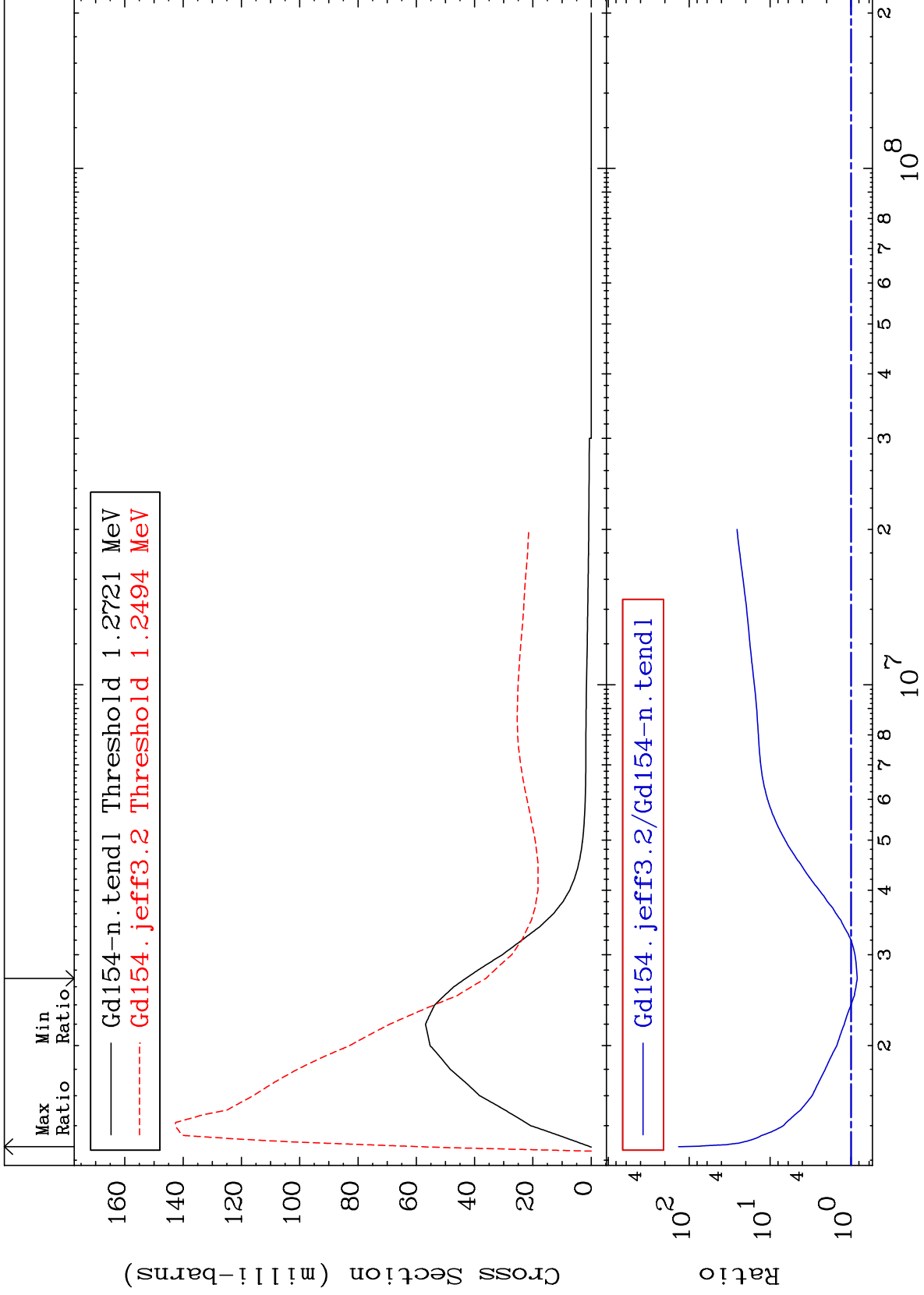
64-Gd-154
-100.0 To 2831. %



MAT 6431

1.264 MeV (n,n') Level
Cross Section

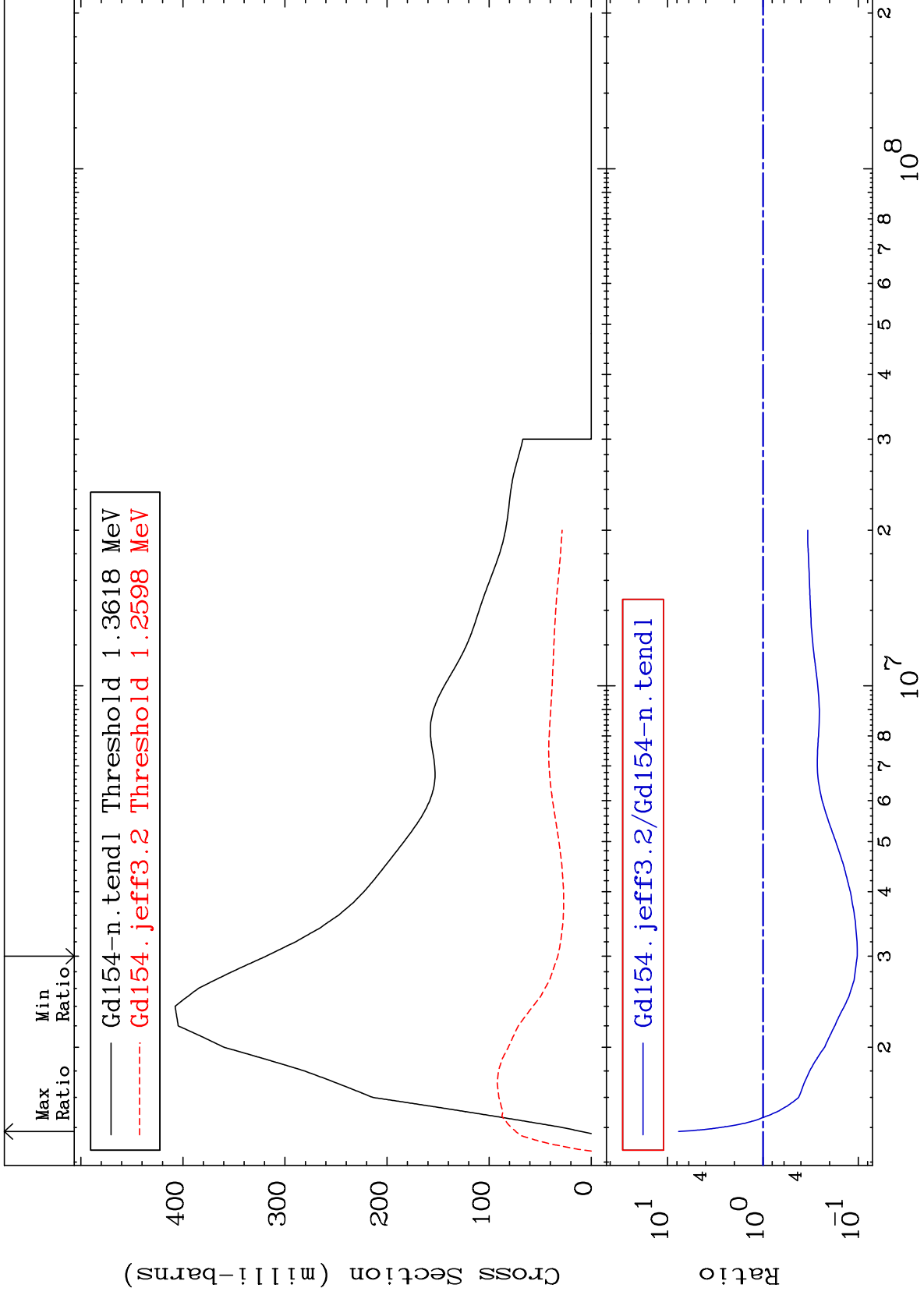
64-Gd-154
-16.02 To 9999. %



MAT 6431

1.353 MeV (n,n') Level
Cross Section

64-Gd-154
-89.74 To 666.1 %



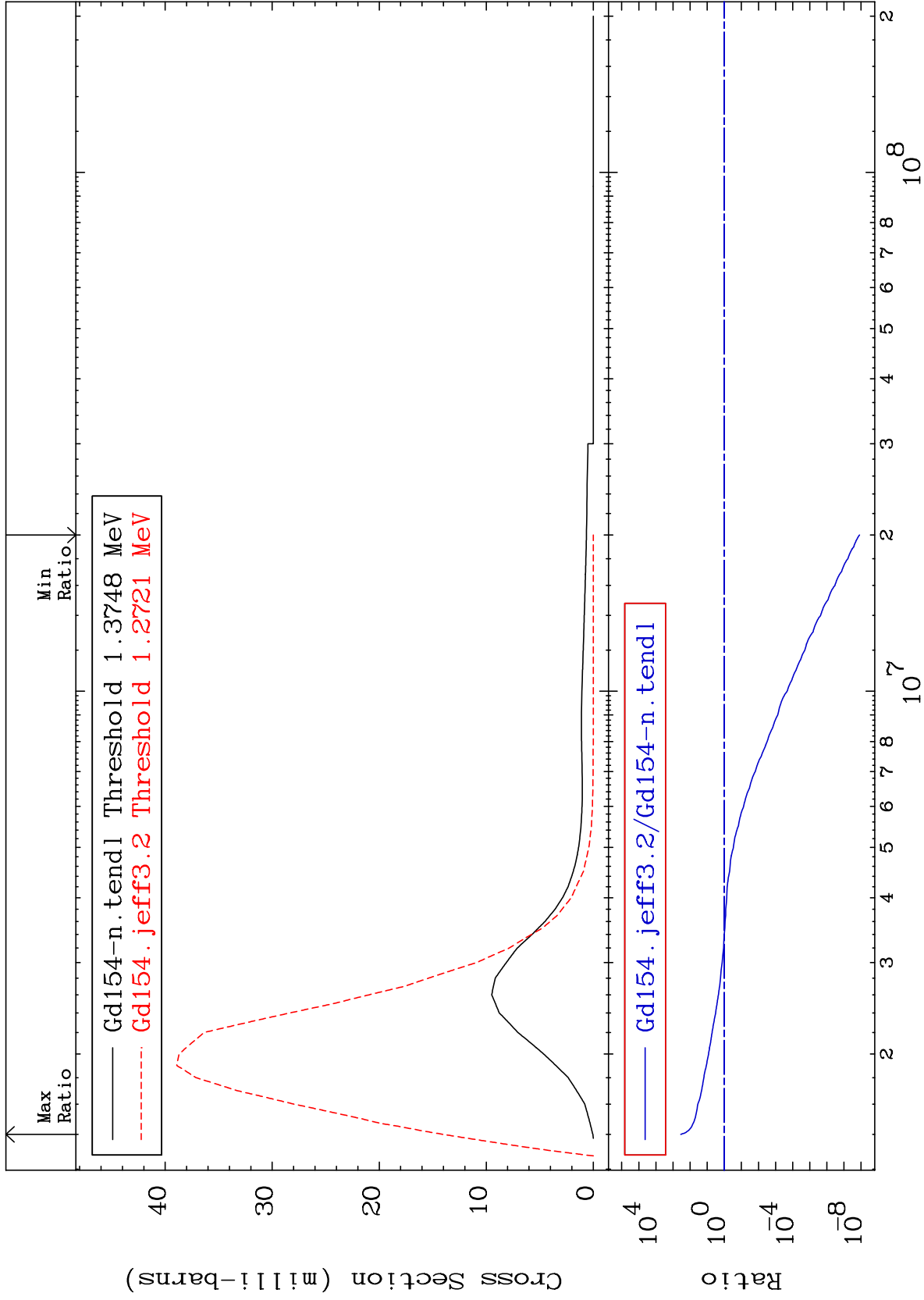
MAT 6431

1.366 MeV (n,n') Level

64-Gd-154

-100.0 To 9999. %

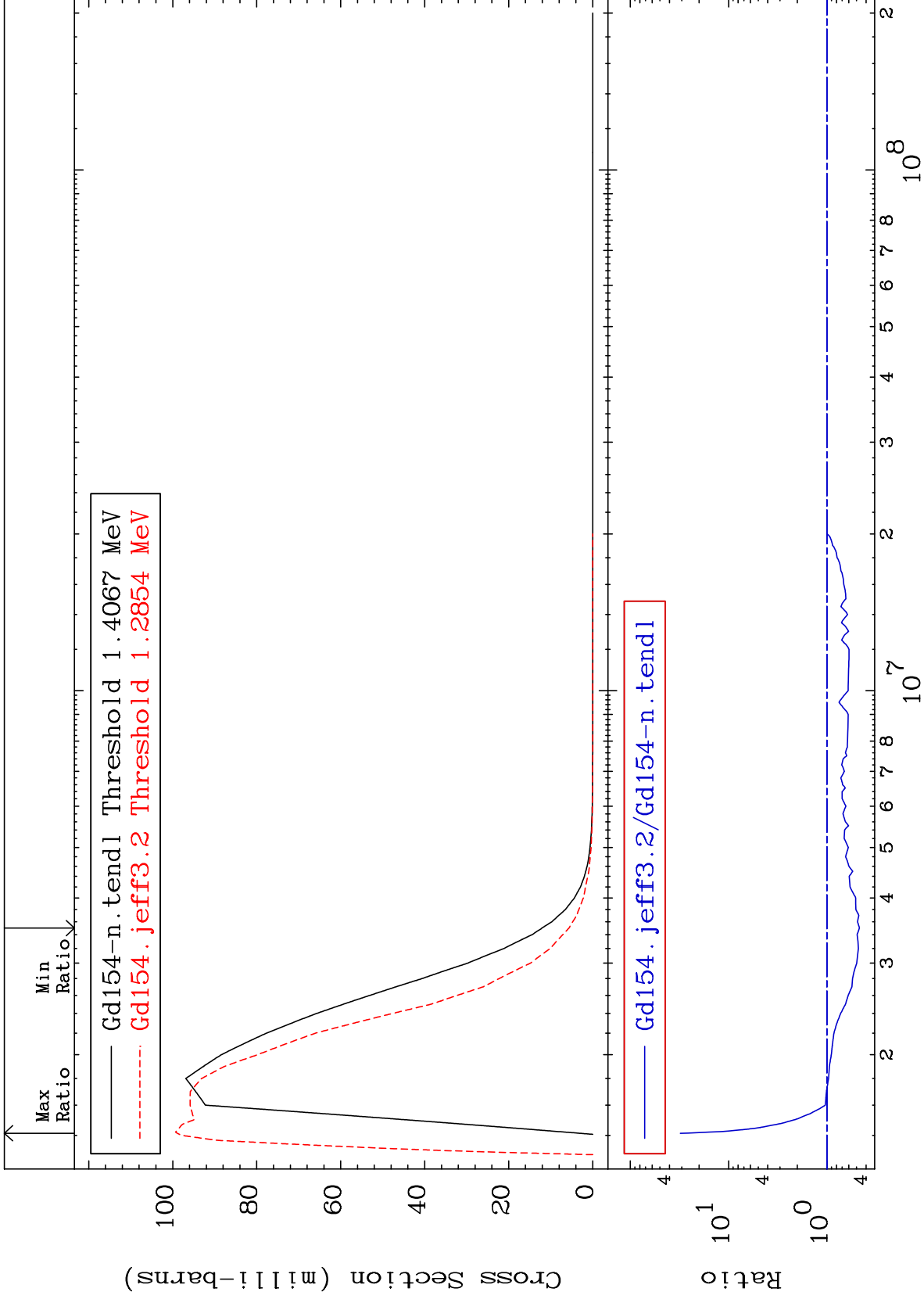
Cross Section



MAT 6431

1.398 MeV (n,n') Level
Cross Section

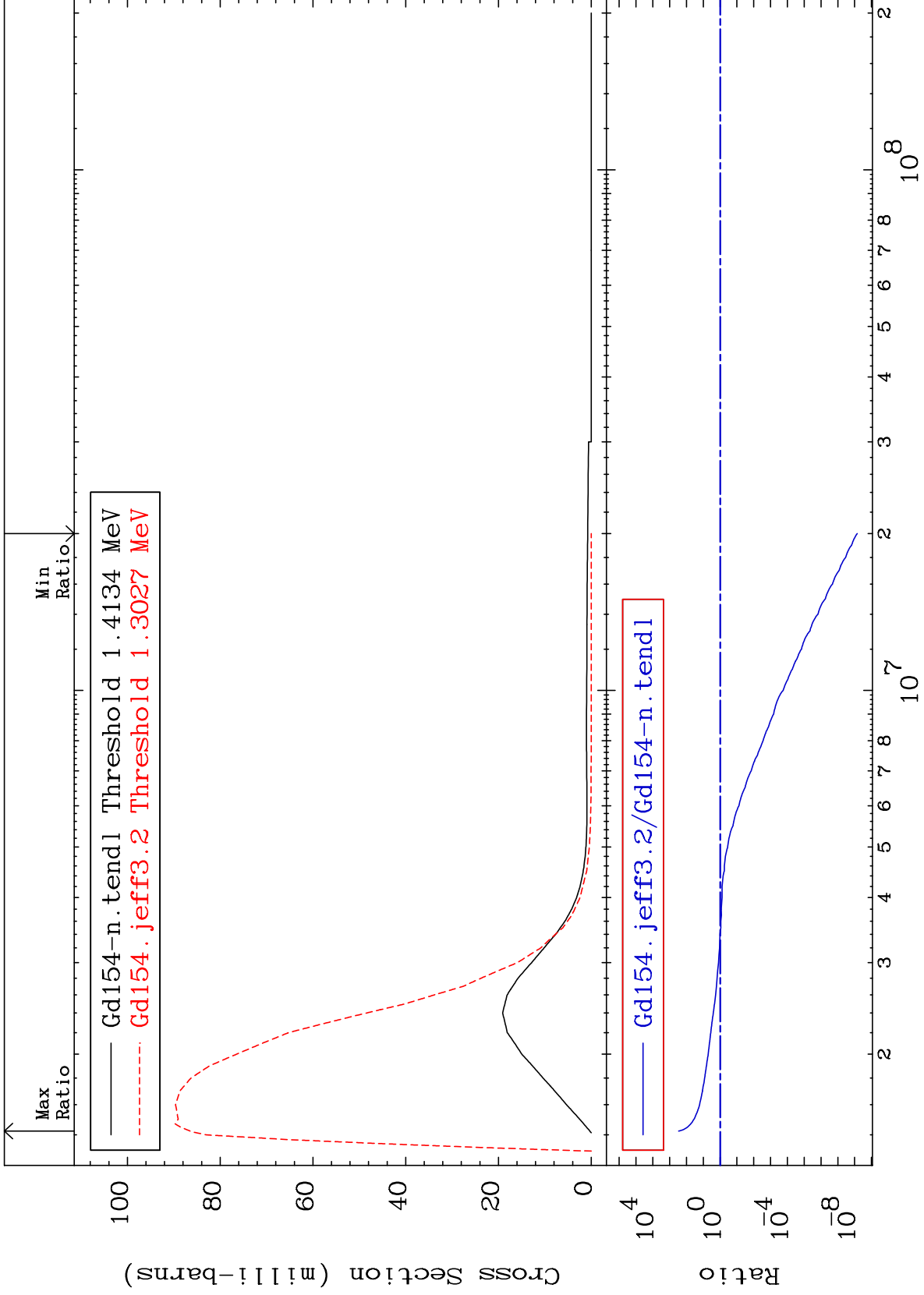
64-Gd-154
-53.24 To 2998. %



MAT 6431

1.404 MeV (n,n') Level
Cross Section

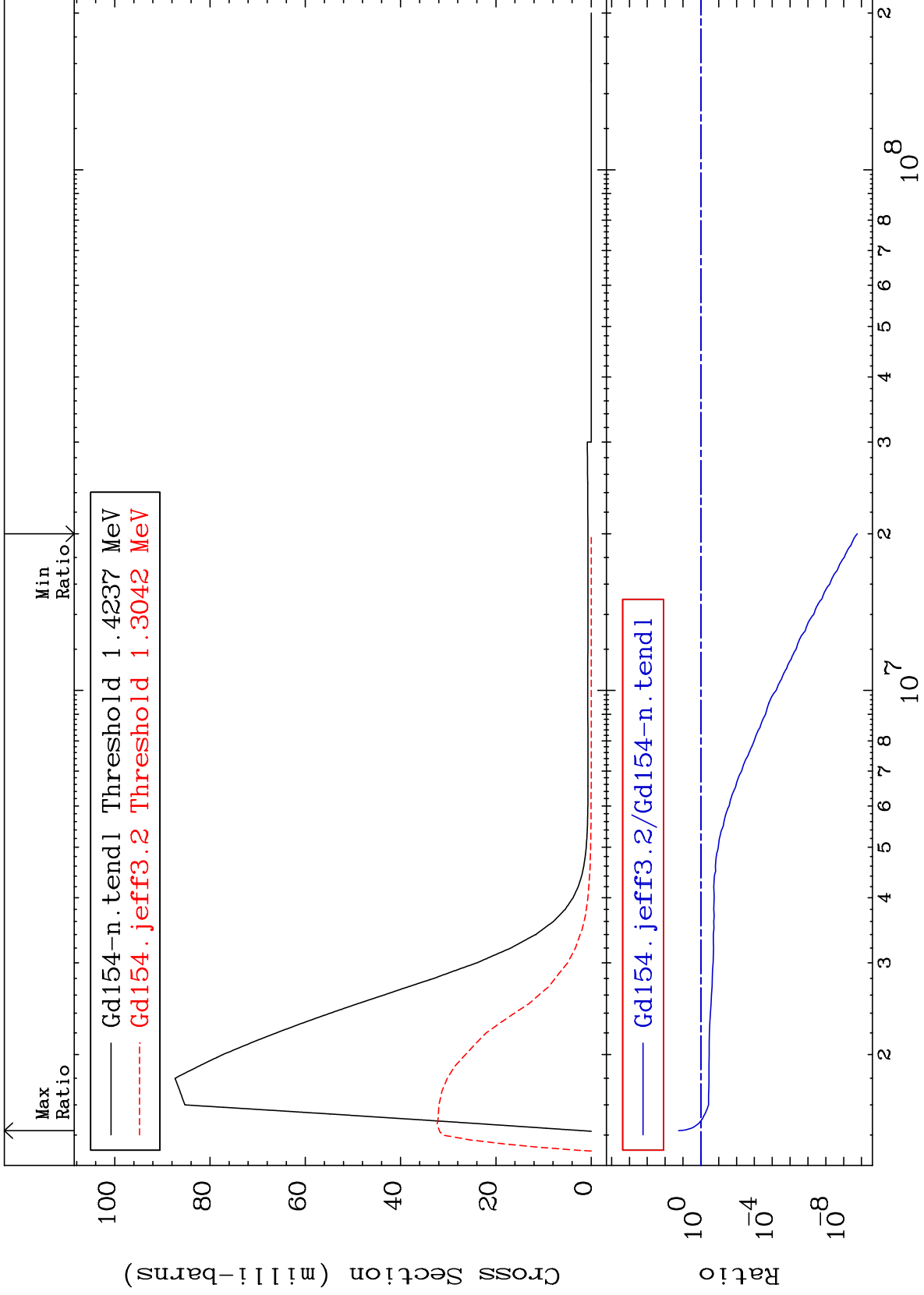
64-Gd-154
-100.0 To 9999. %



MAT 6431

1.414 MeV (n,n') Level
Cross Section

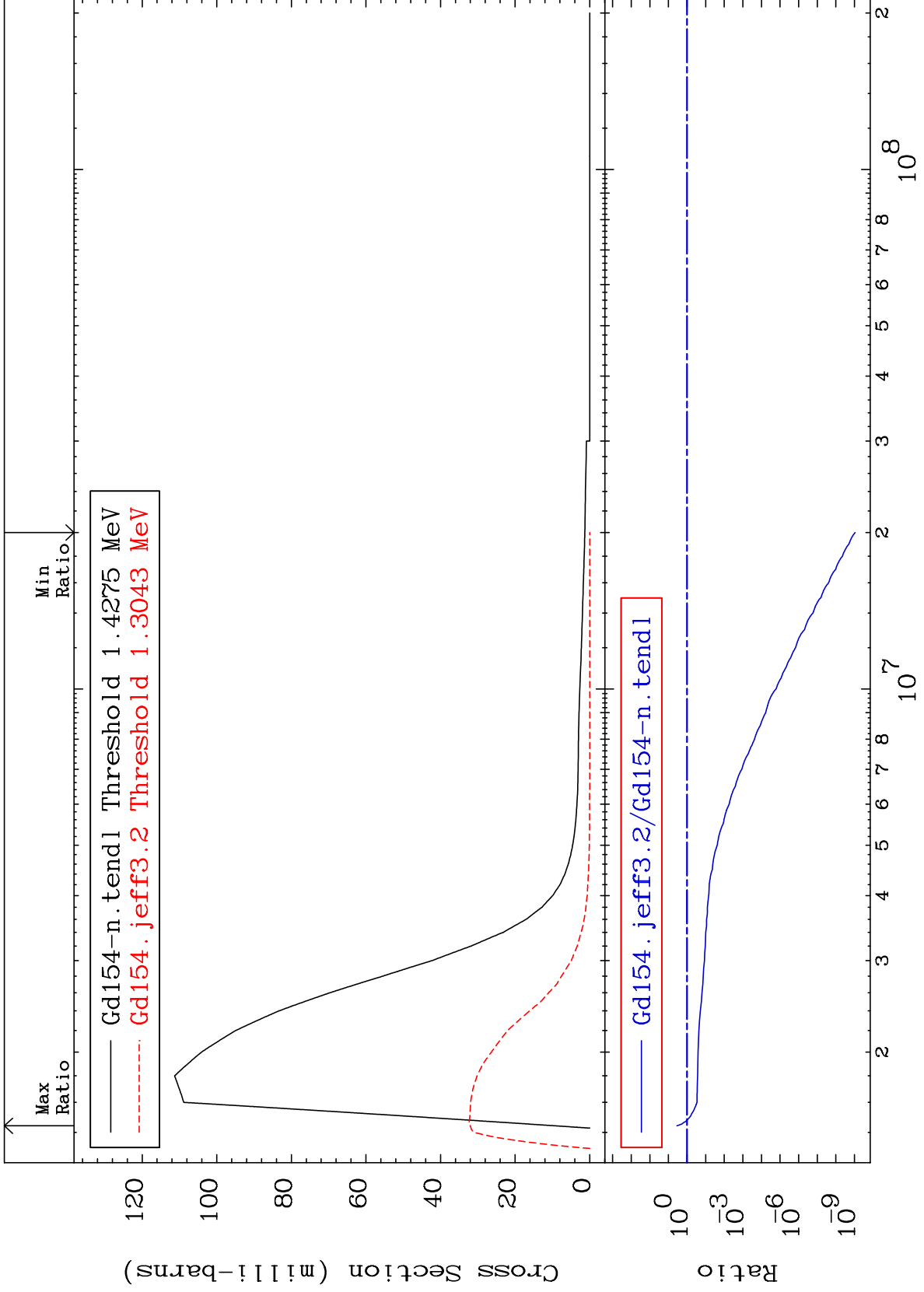
64-Gd-154
-100.0 To 1651. %



MAT 6431

1.418 MeV (n,n') Level
Cross Section

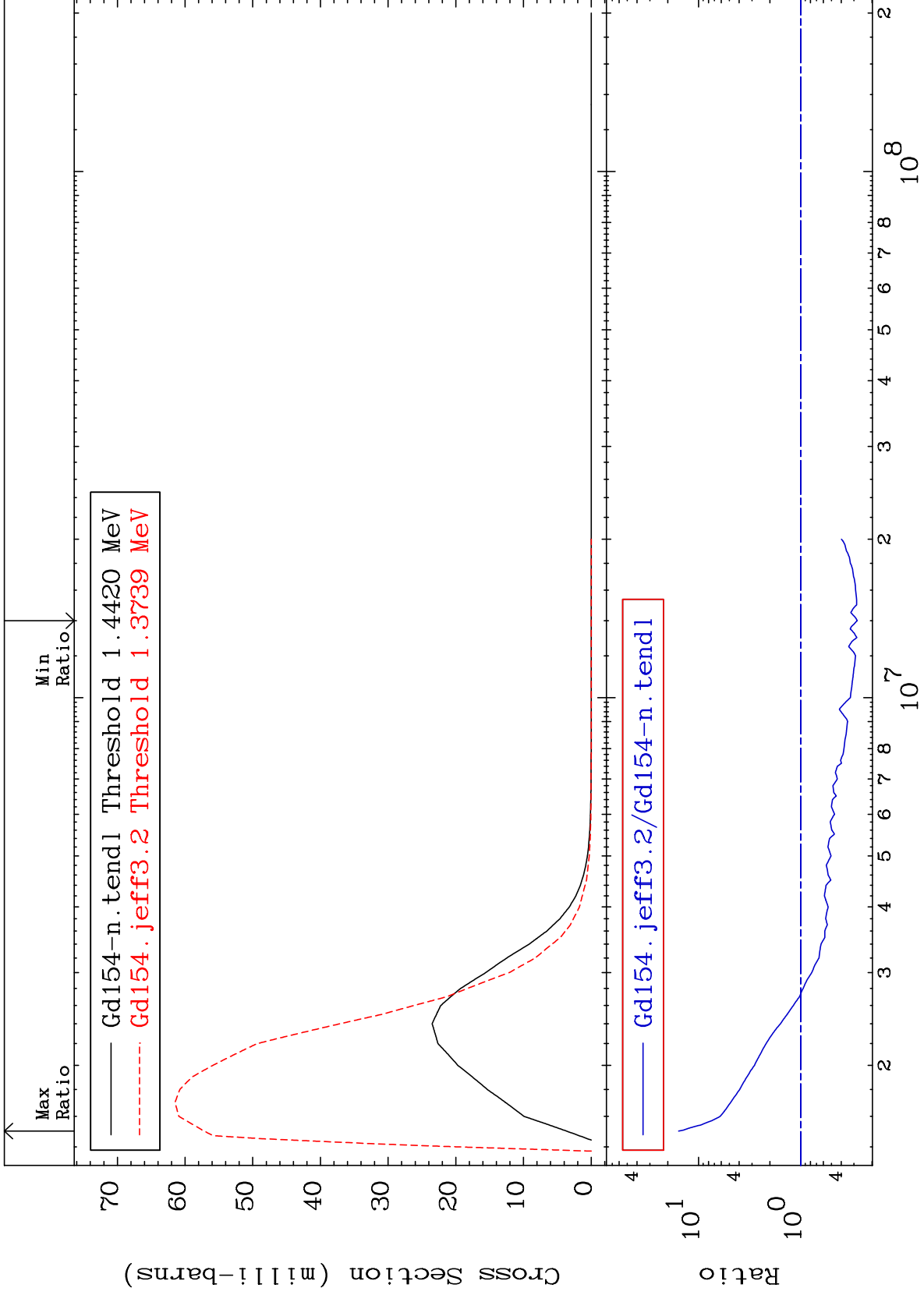
64-Gd-154
-100.0 To 249.5 %



MAT 6431

1.433 MeV (n,n') Level
Cross Section

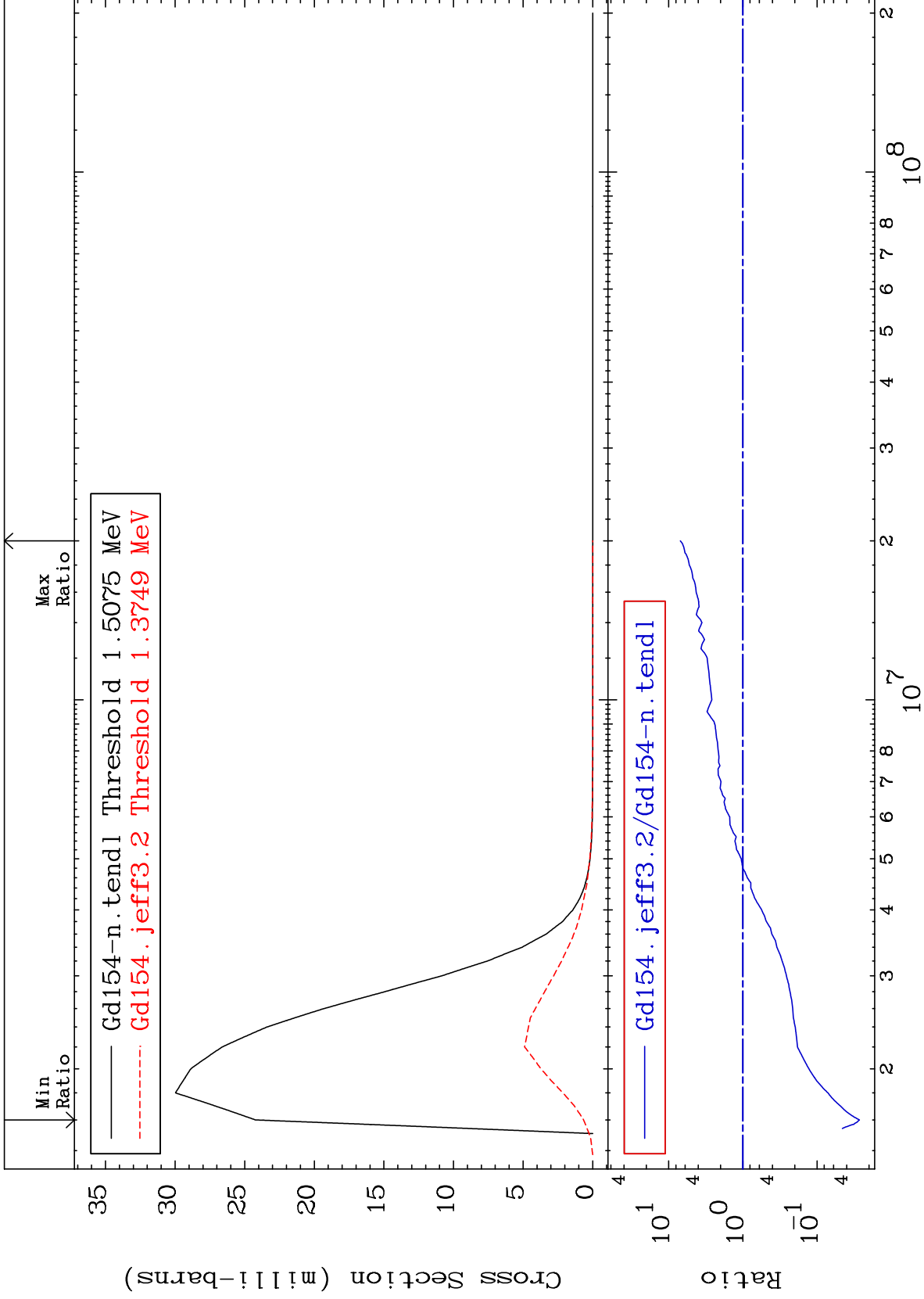
64-Gd-154
-72.11 To 1467. %



MAT 6431

1.498 MeV (n,n') Level
Cross Section

64-Gd-154
-97.31 To 595.4 %

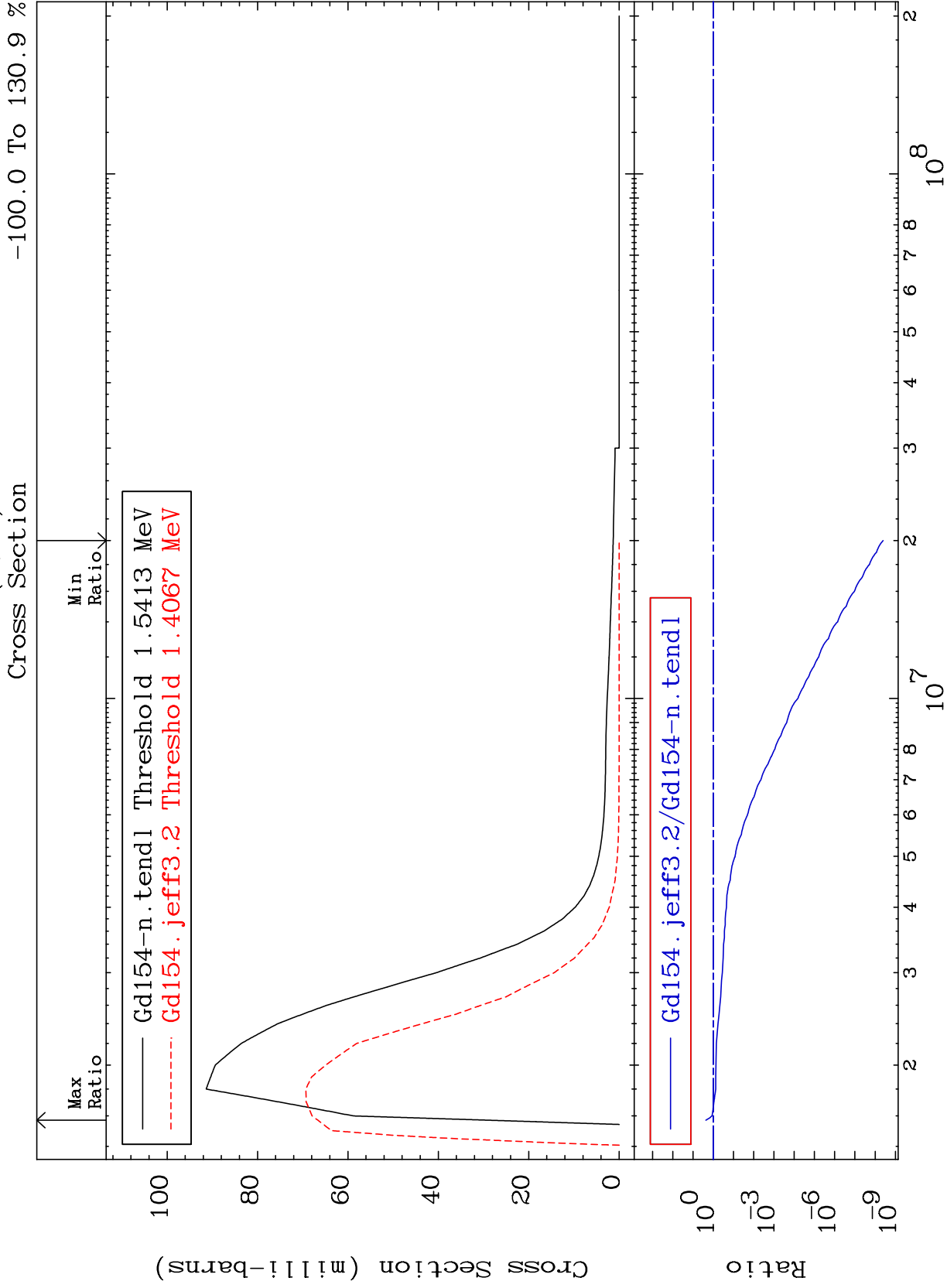


MAT 6431

1.531 MeV (n,n') Level

64-Gd-154

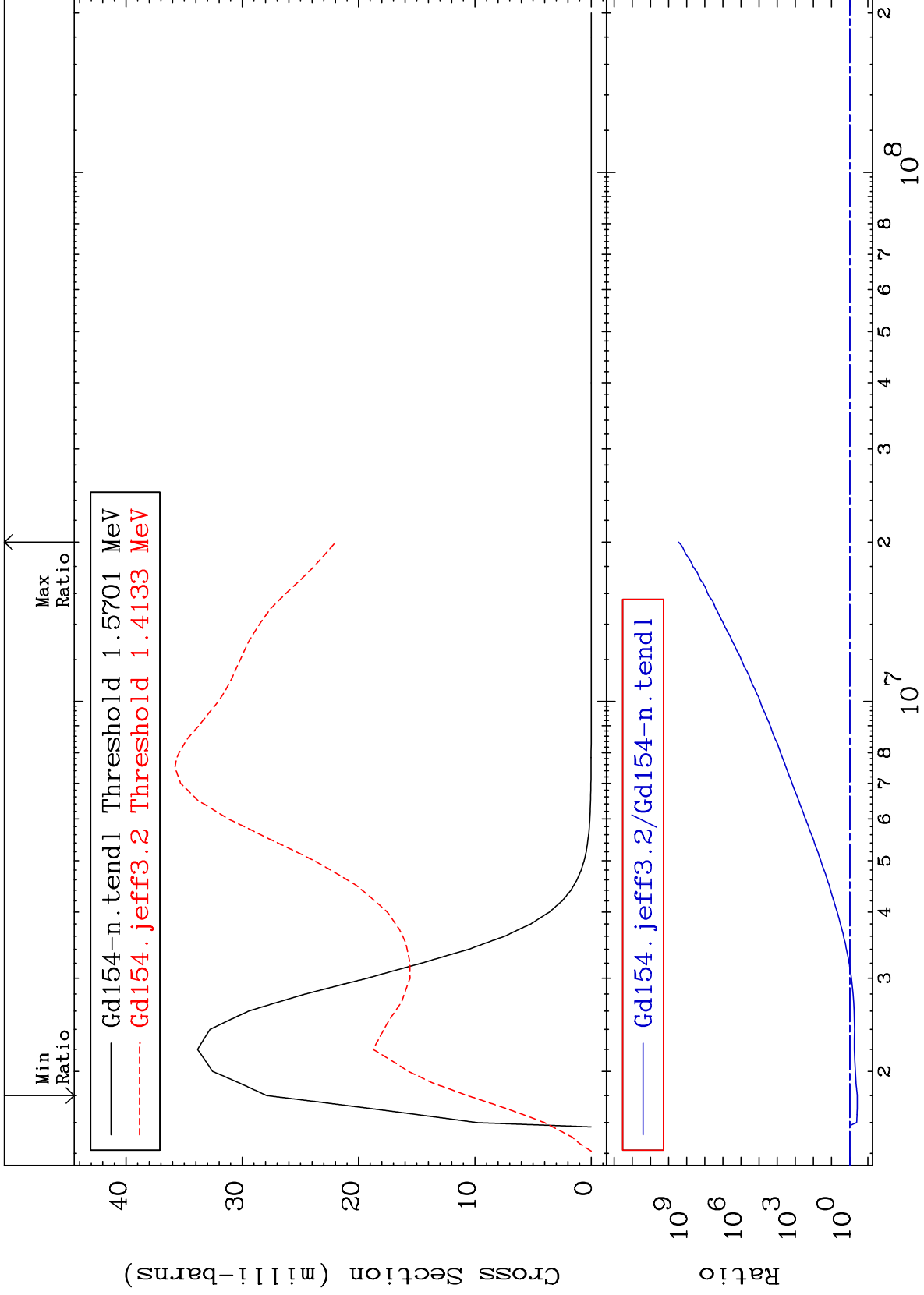
-100.0 To 130.9 %



MAT 6431

1.560 MeV (n,n') Level
Cross Section

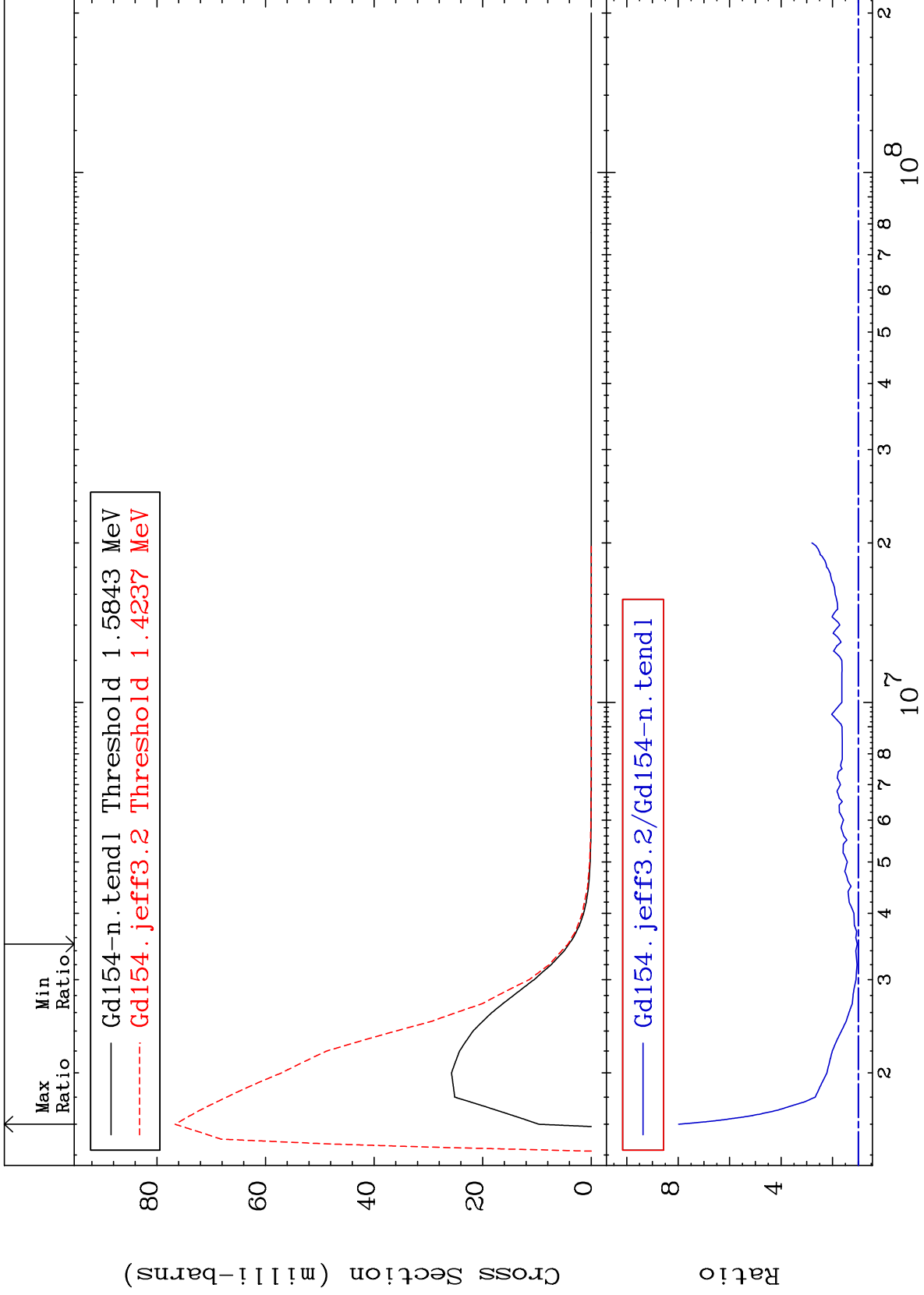
64-Gd-154
-61.84 To 9999. %



MAT 6431

1.574 MeV (n,n') Level
Cross Section

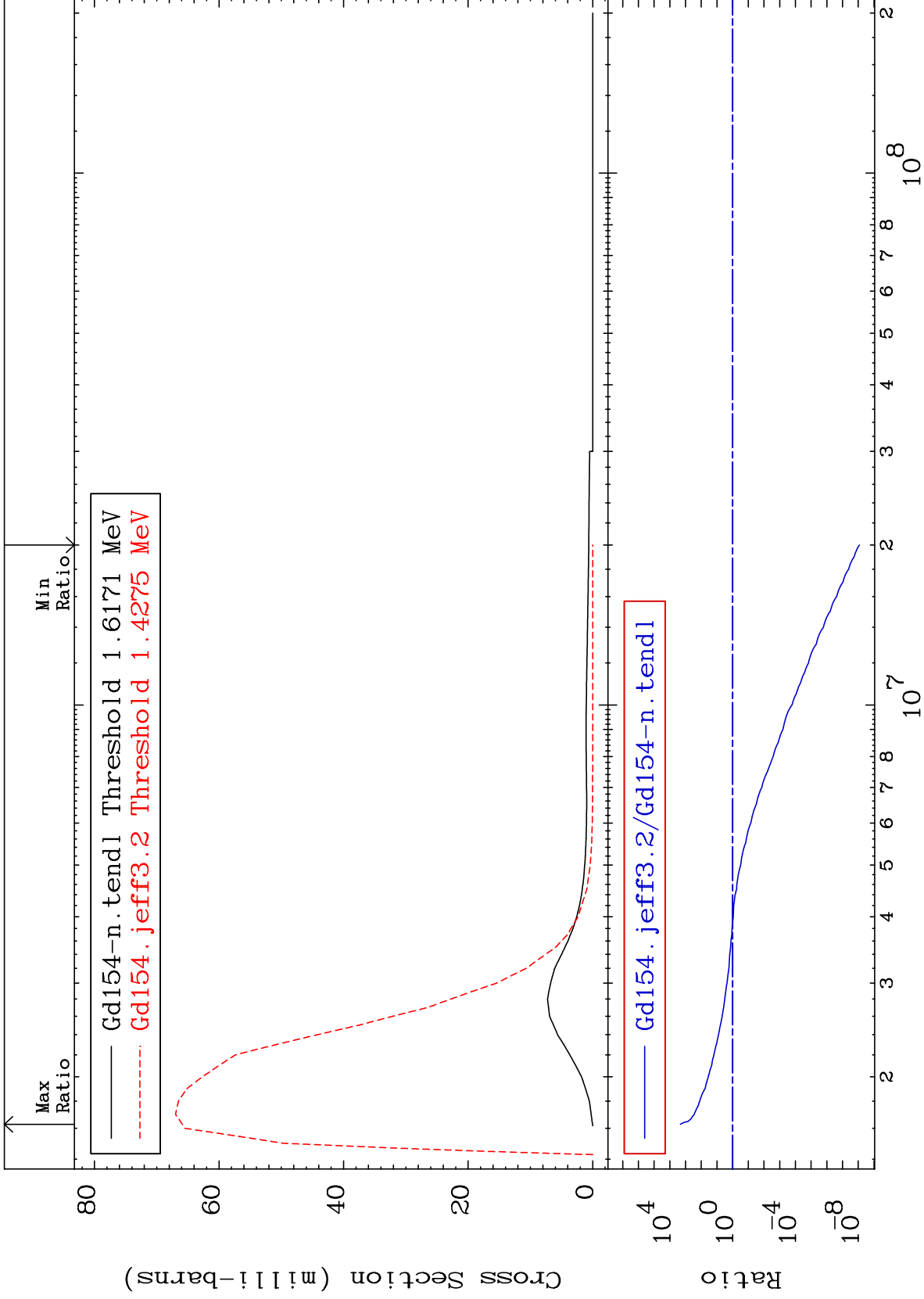
64-Gd-154
3.831 To 698.2 %



MAT 6431

1.607 MeV (n,n') Level
Cross Section

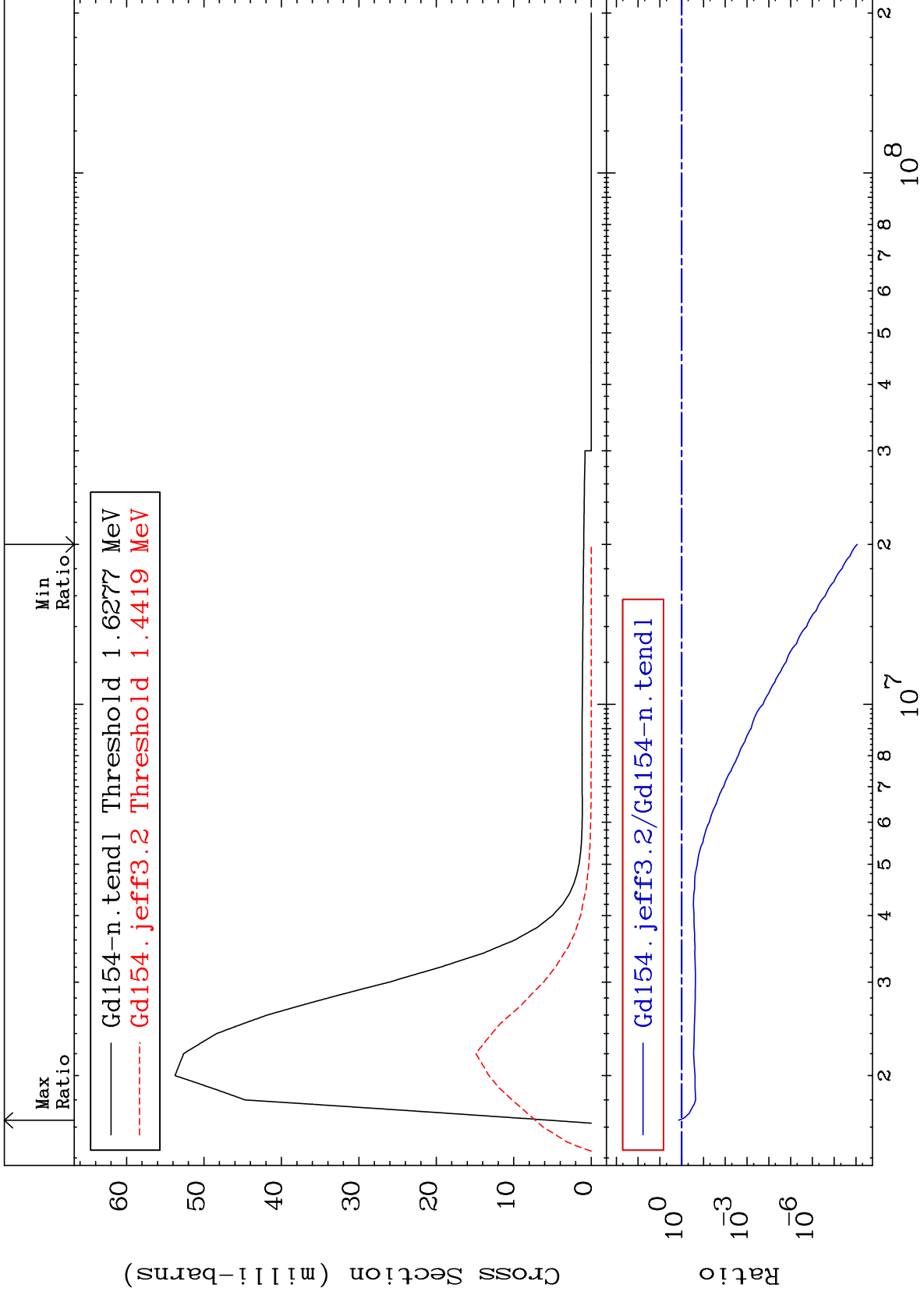
64-Gd-154
-100.0 To 9999. %



MAT 6431

1.617 MeV (n,n') Level
Cross Section

64-Gd-154
-100.0 To 38.16 %



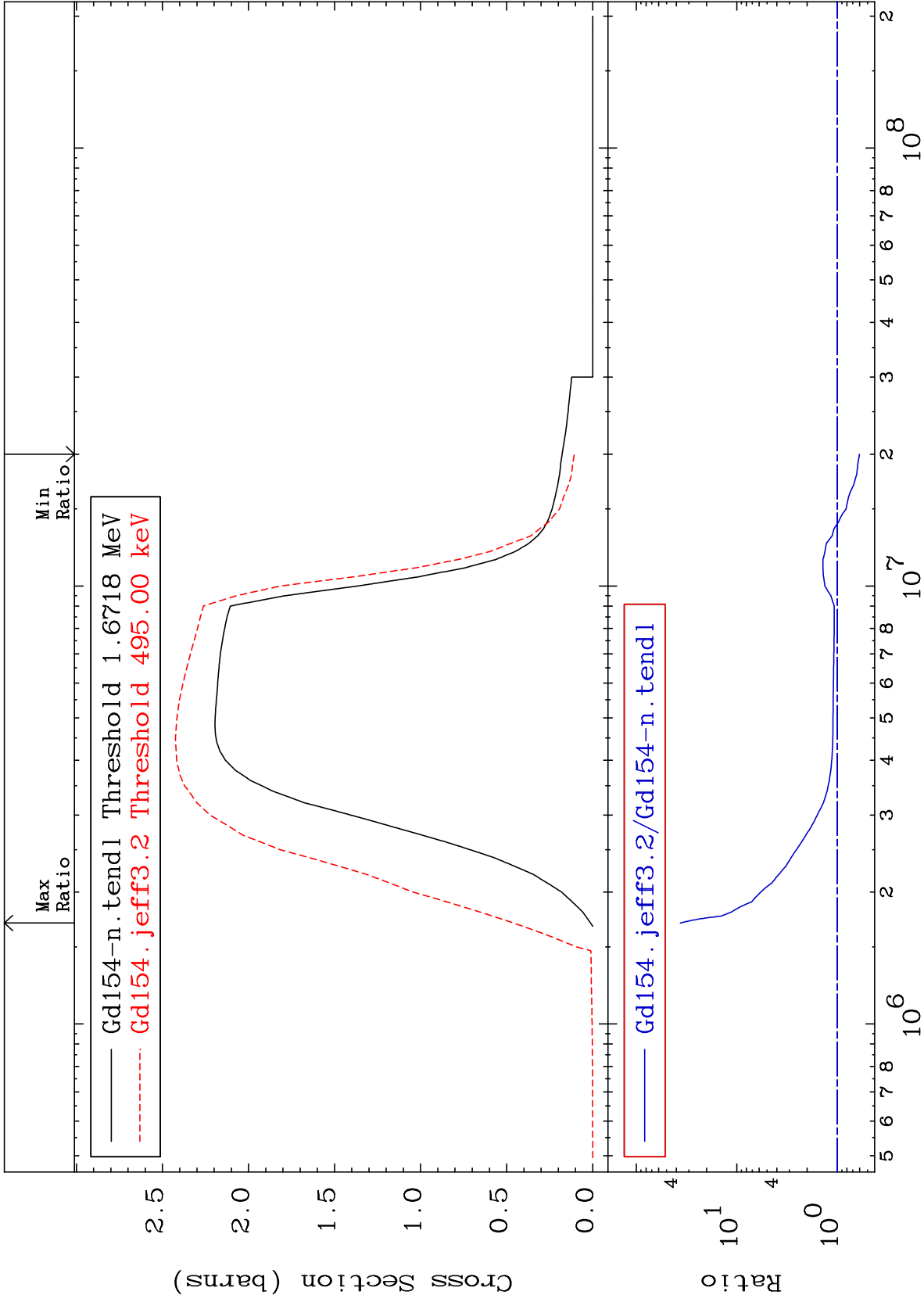
35

64-Gd-154

MAT 6431

(n, n') Continuum
Cross Section

64-Gd-154
-39.85 To 3542. %



36

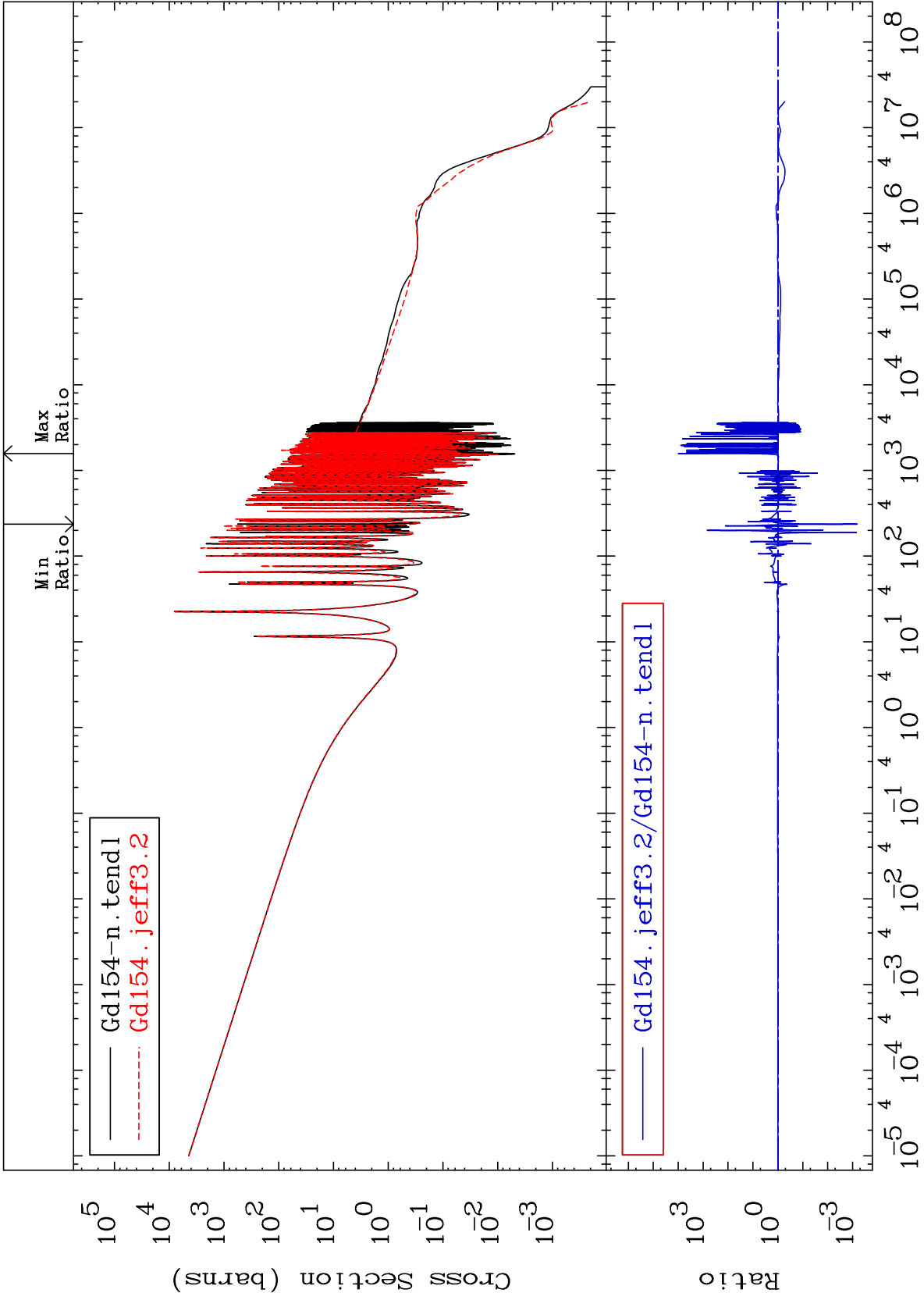
Incident Energy (eV)

64-Gd-154

MAT 6431

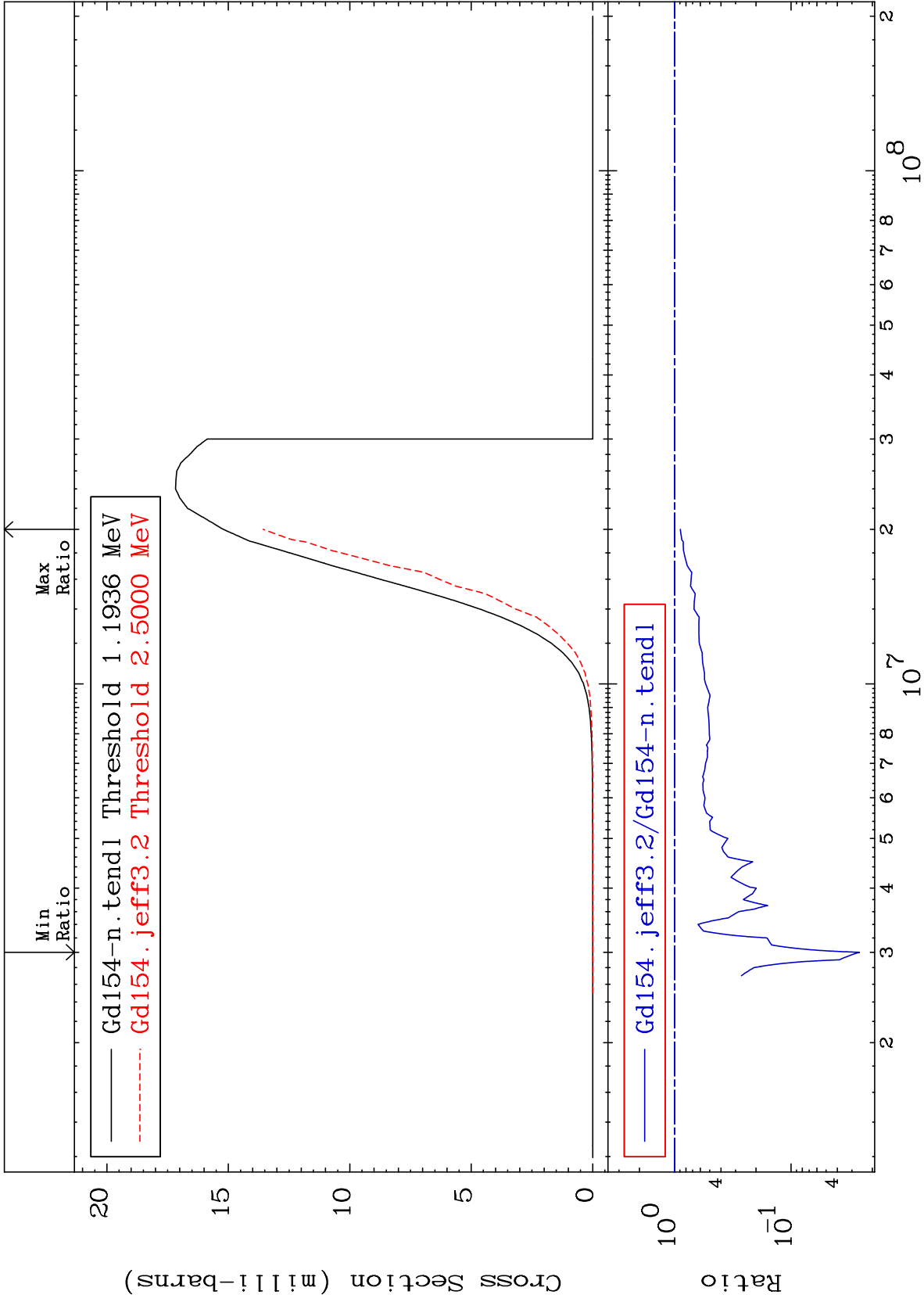
(n, γ)
Cross Section

64-Gd-154
-99.93 To 9999. %



MAT 6431

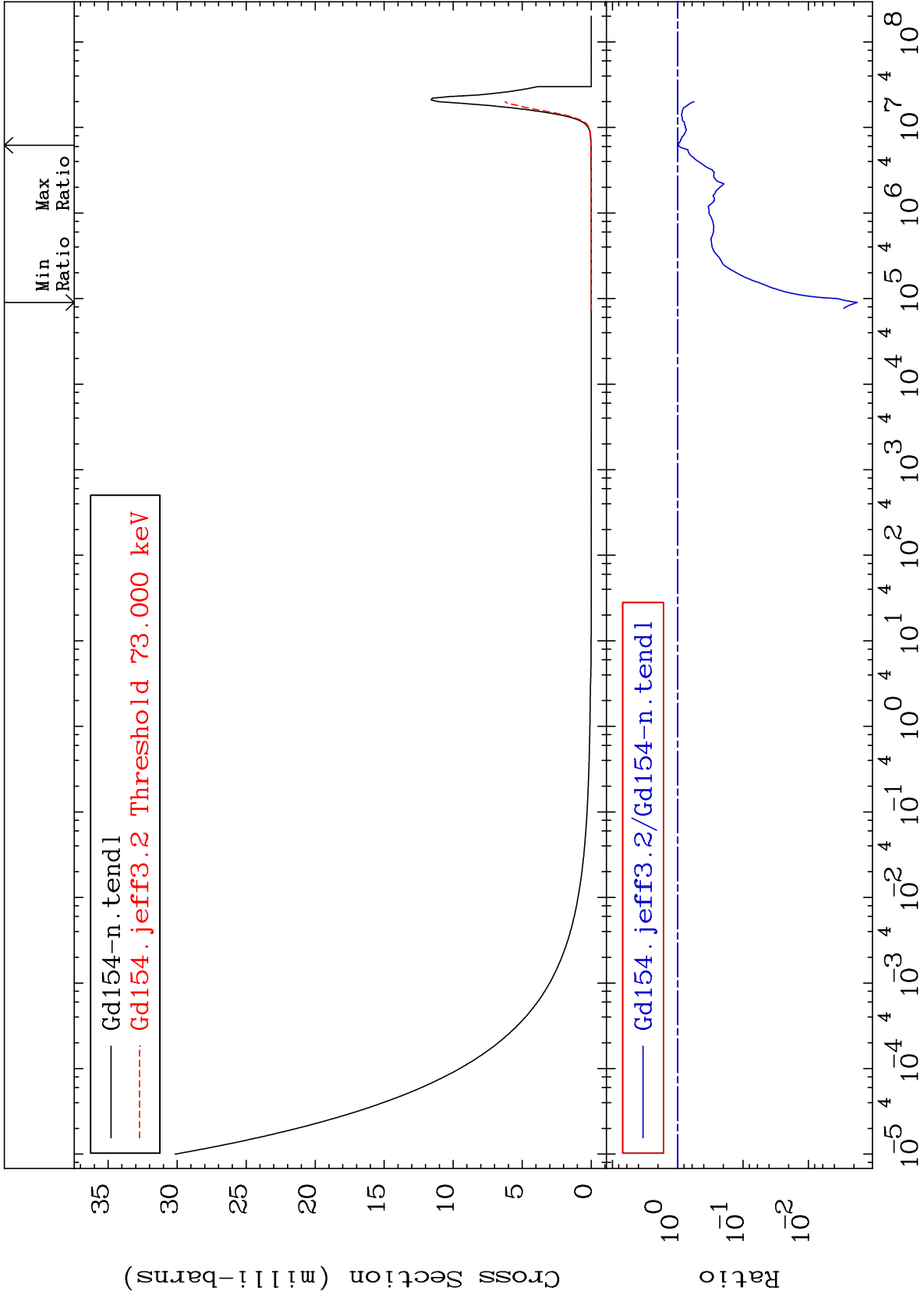
(n,p)
Cross Section
64-Gd-154
-97.41 To -10.77%



MAT 6431

(n, α)
Cross Section

64-Gd-154
-99.82 To -3.236%



39

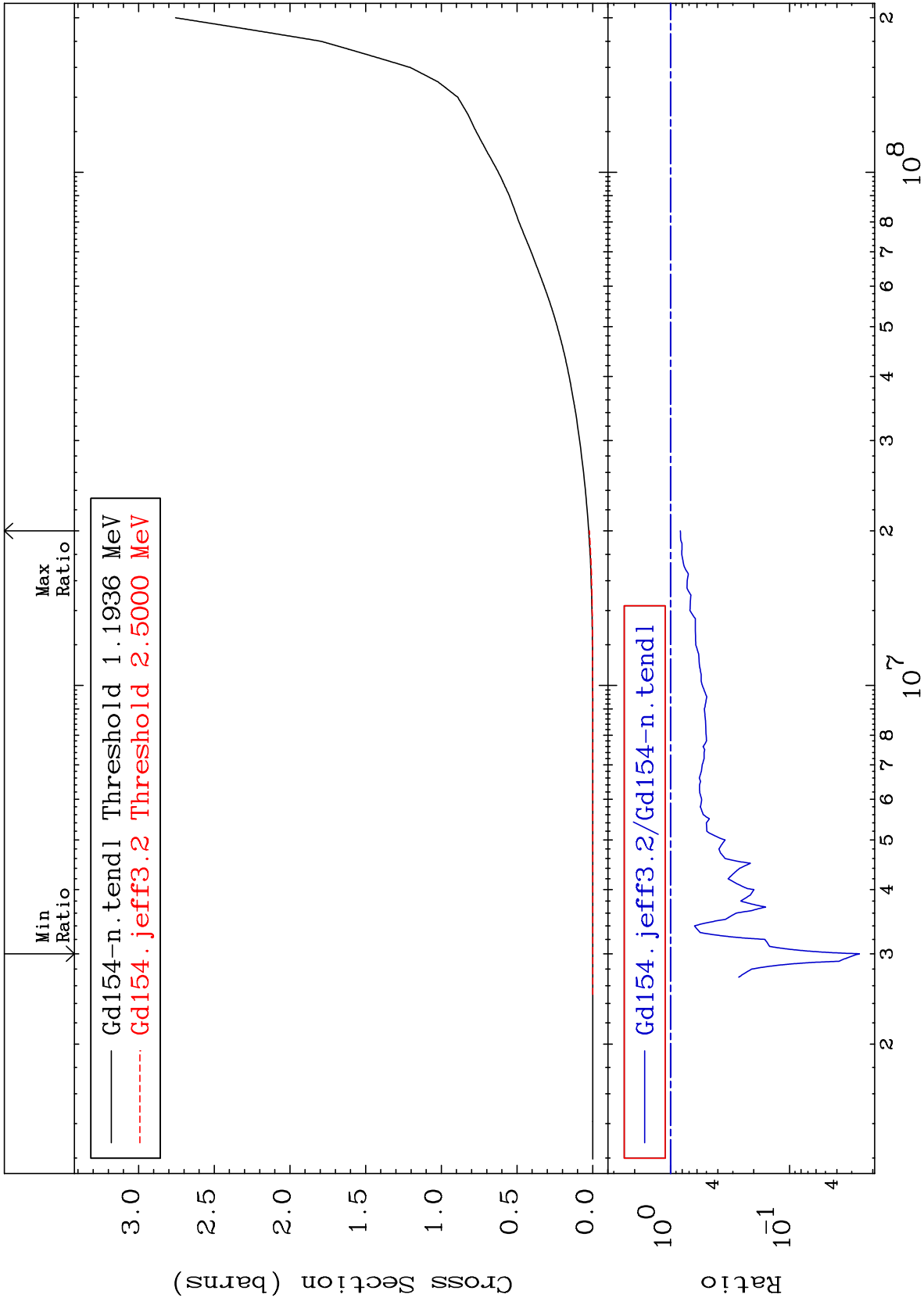
Incident Energy (eV)

64-Gd-154

MAT 6431

Hydrogen Production
Cross Section

64-Gd-154
-97.41 To -17.26%



40

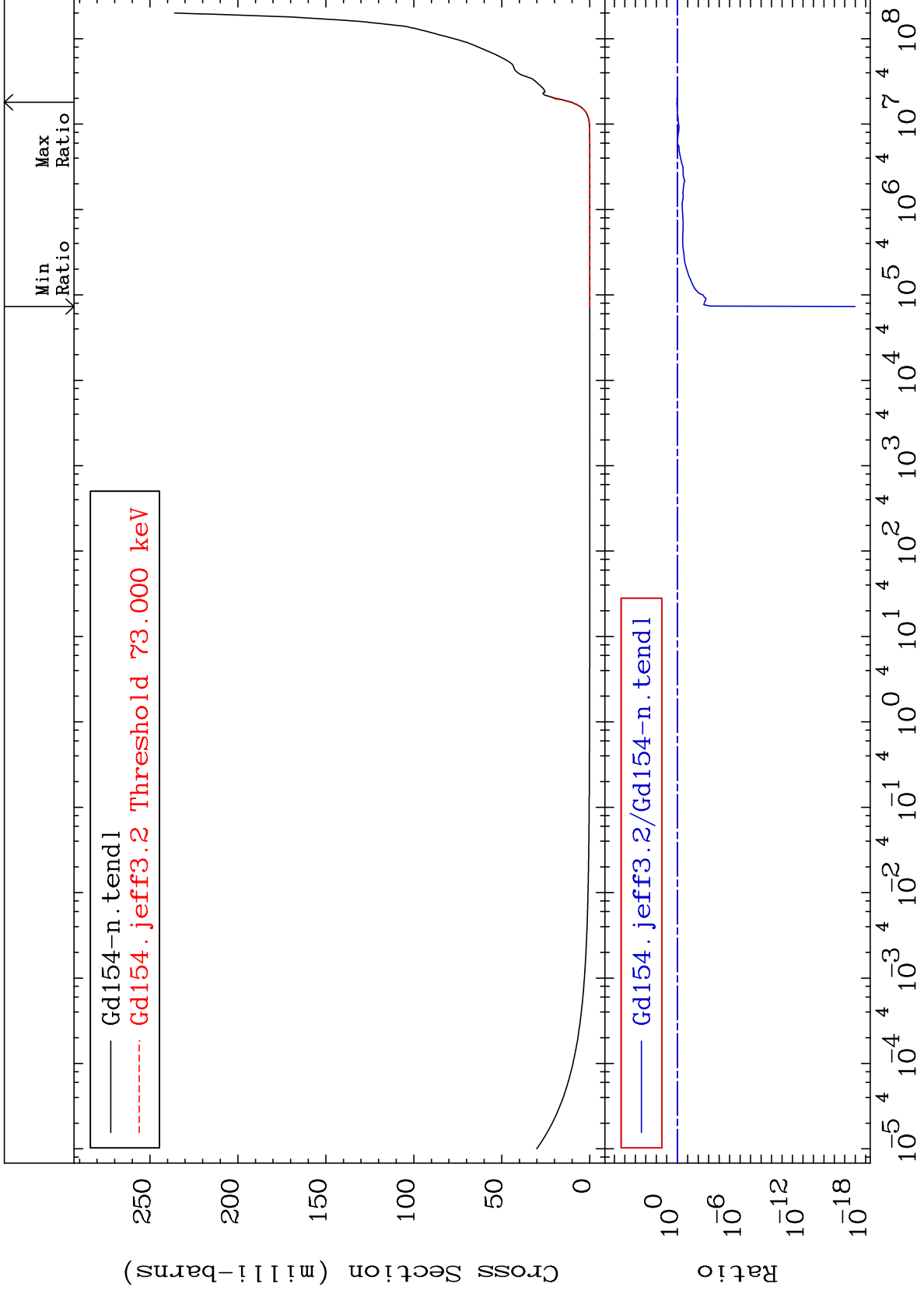
Incident Energy (eV)

64-Gd-154

MAT 6431

He-4 Production
Cross Section

64-Gd-154
-100.0 To 7.767 %



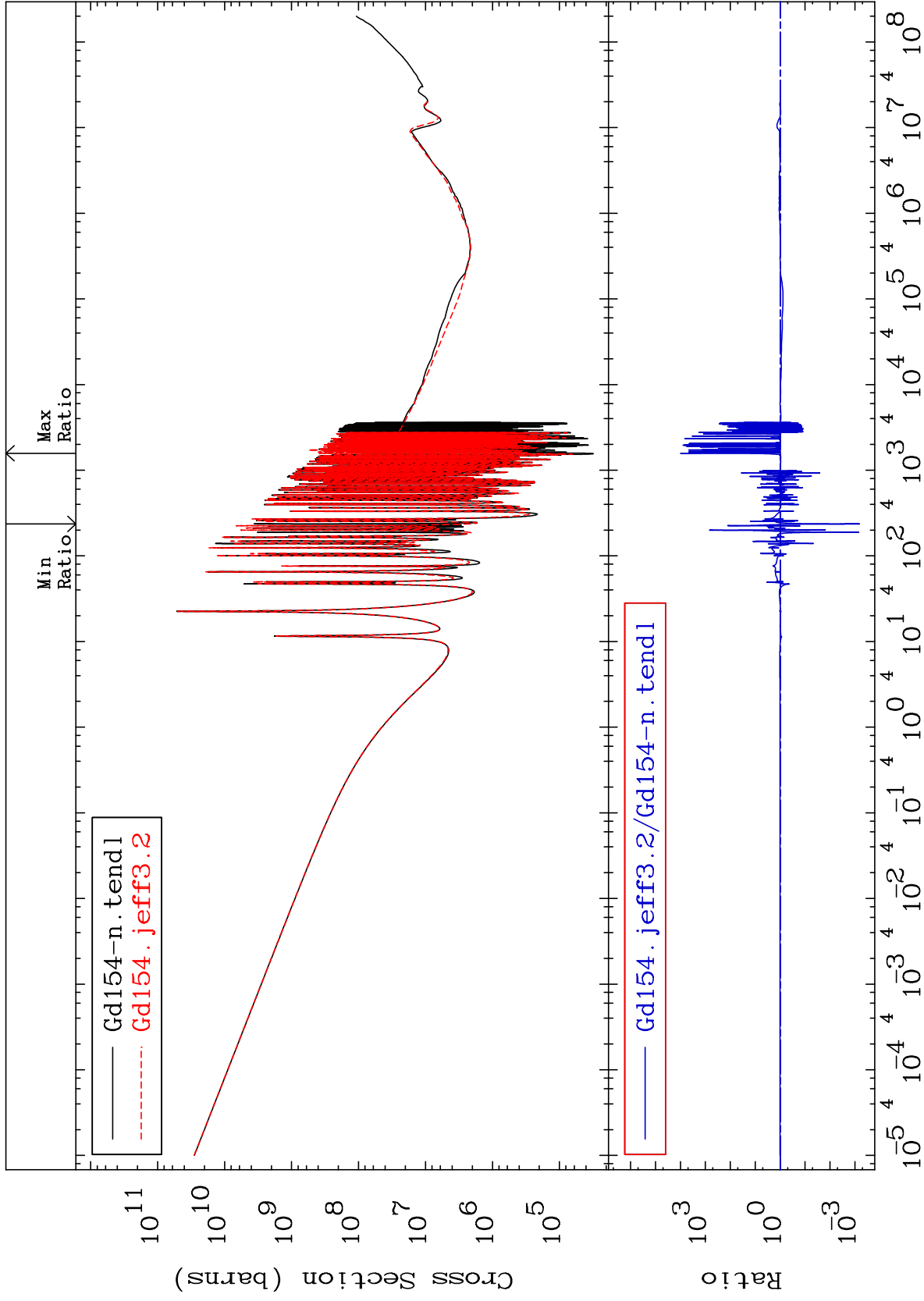
MAT 6431

Kerma total (eV-barns)

64-Gd-154

-99.93 To 9999. %

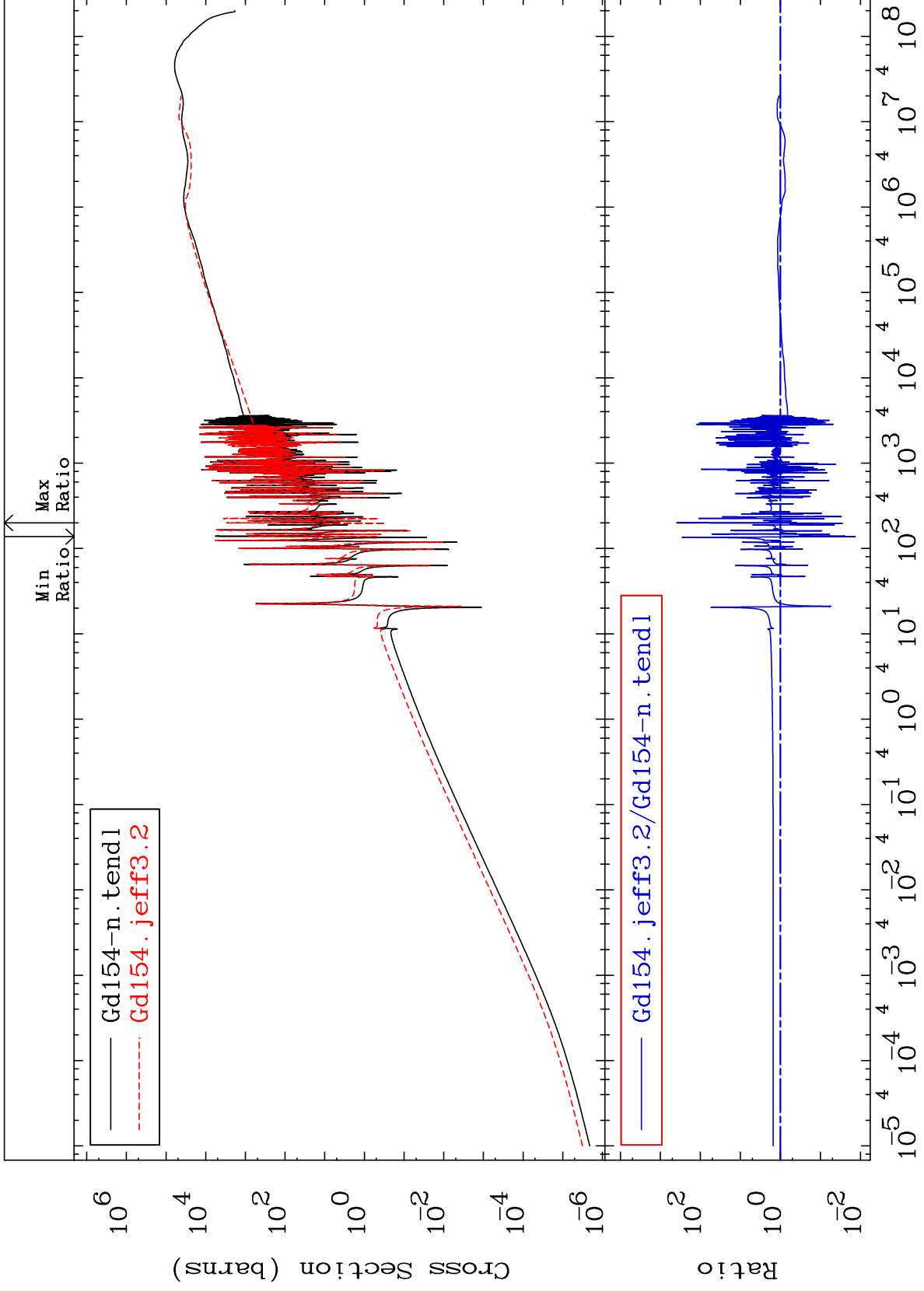
Cross Section

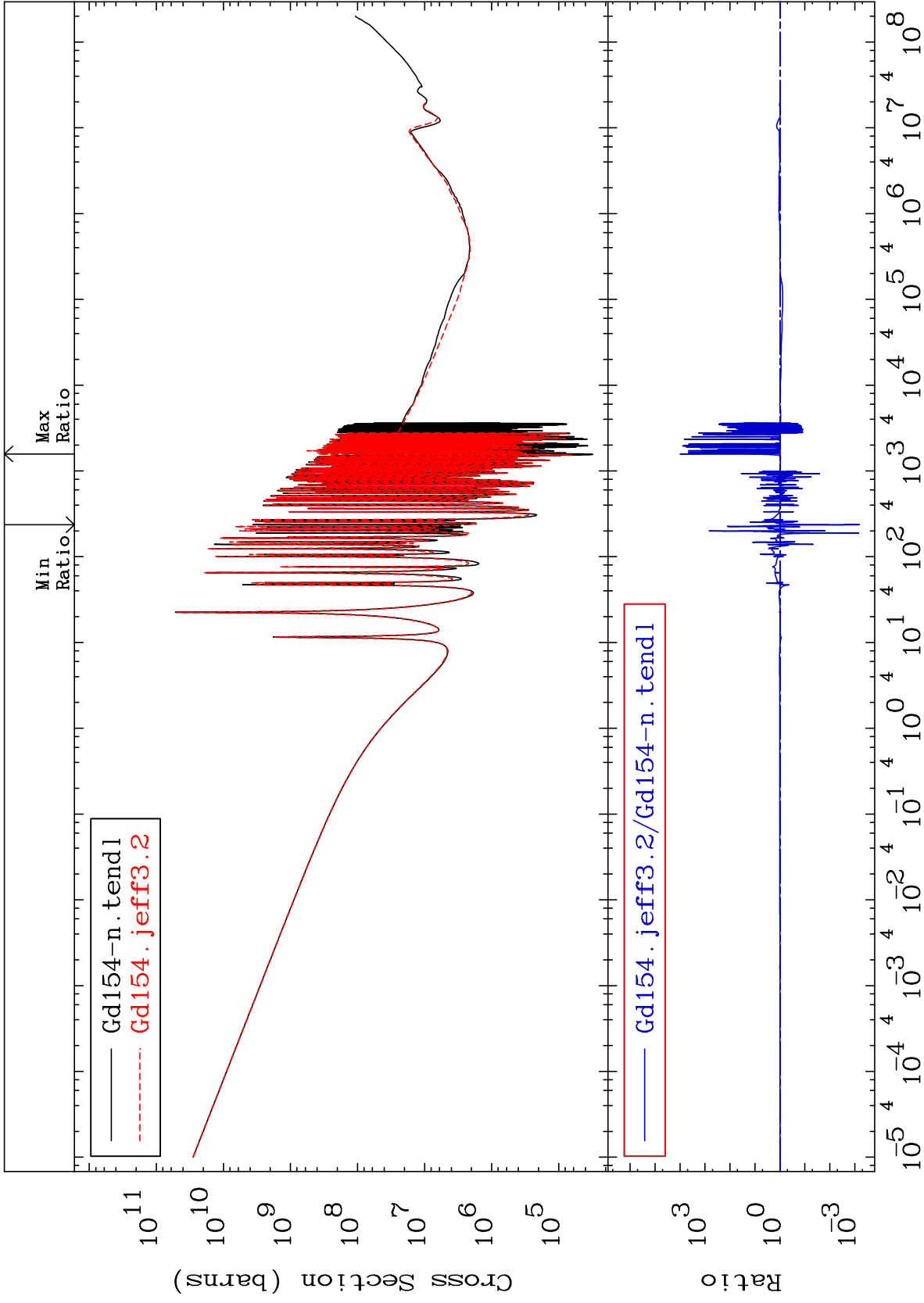


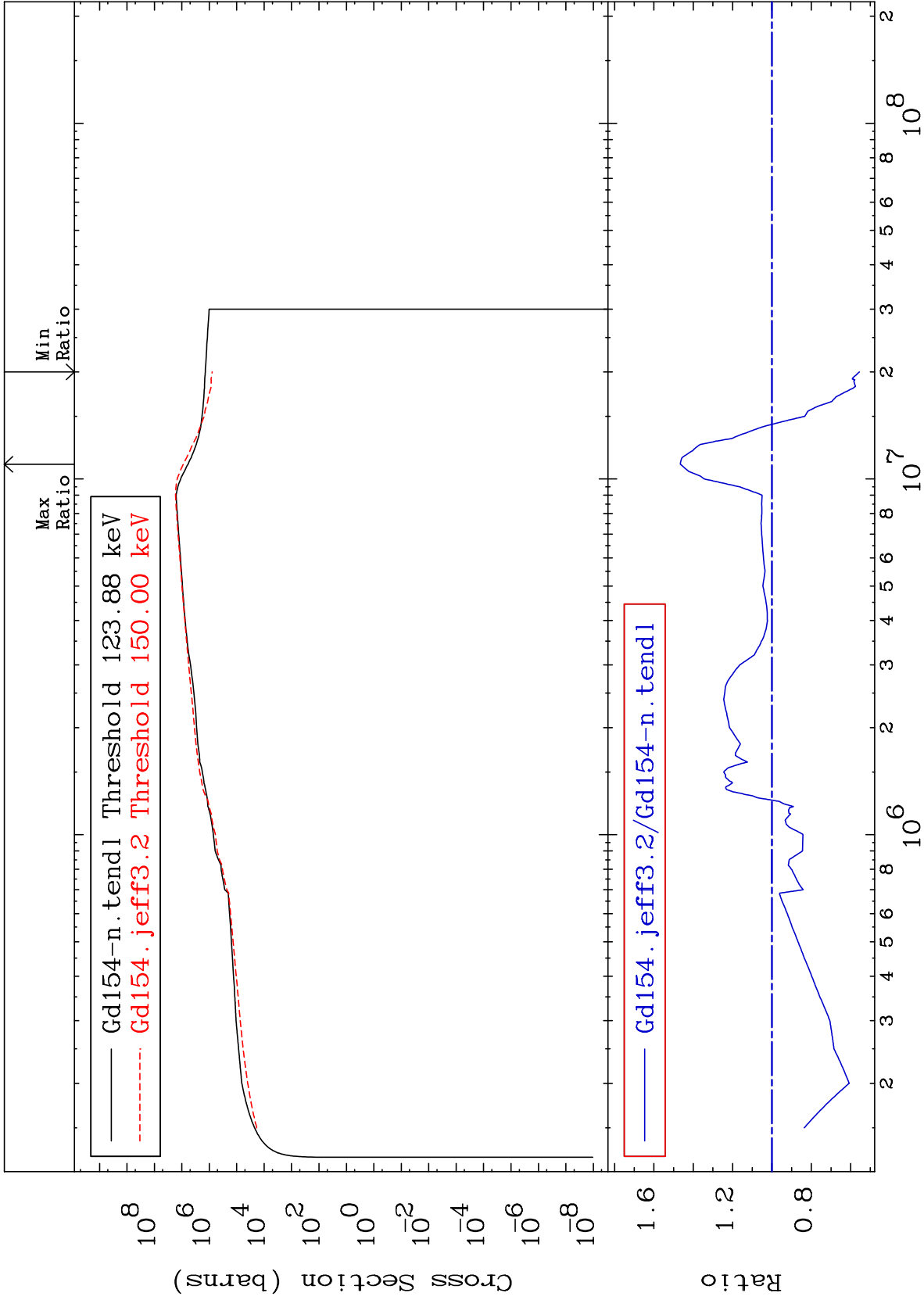
MAT 6431

Kerma elastic
Cross Section

64-Gd-154
-98.64 To 9999. %



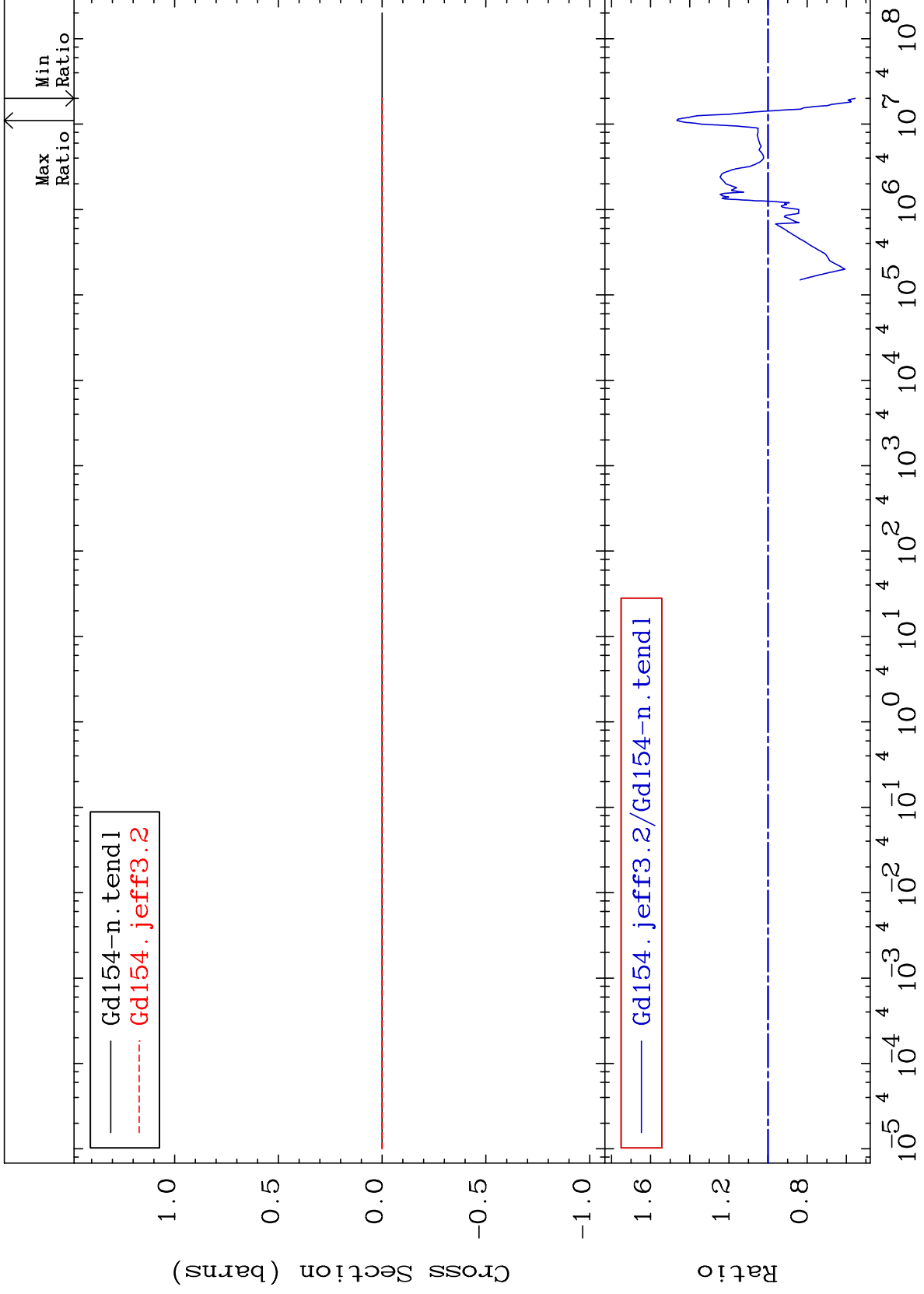




MAT 6431

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

64-Gd-154
-44.47 To 46.55 %



46

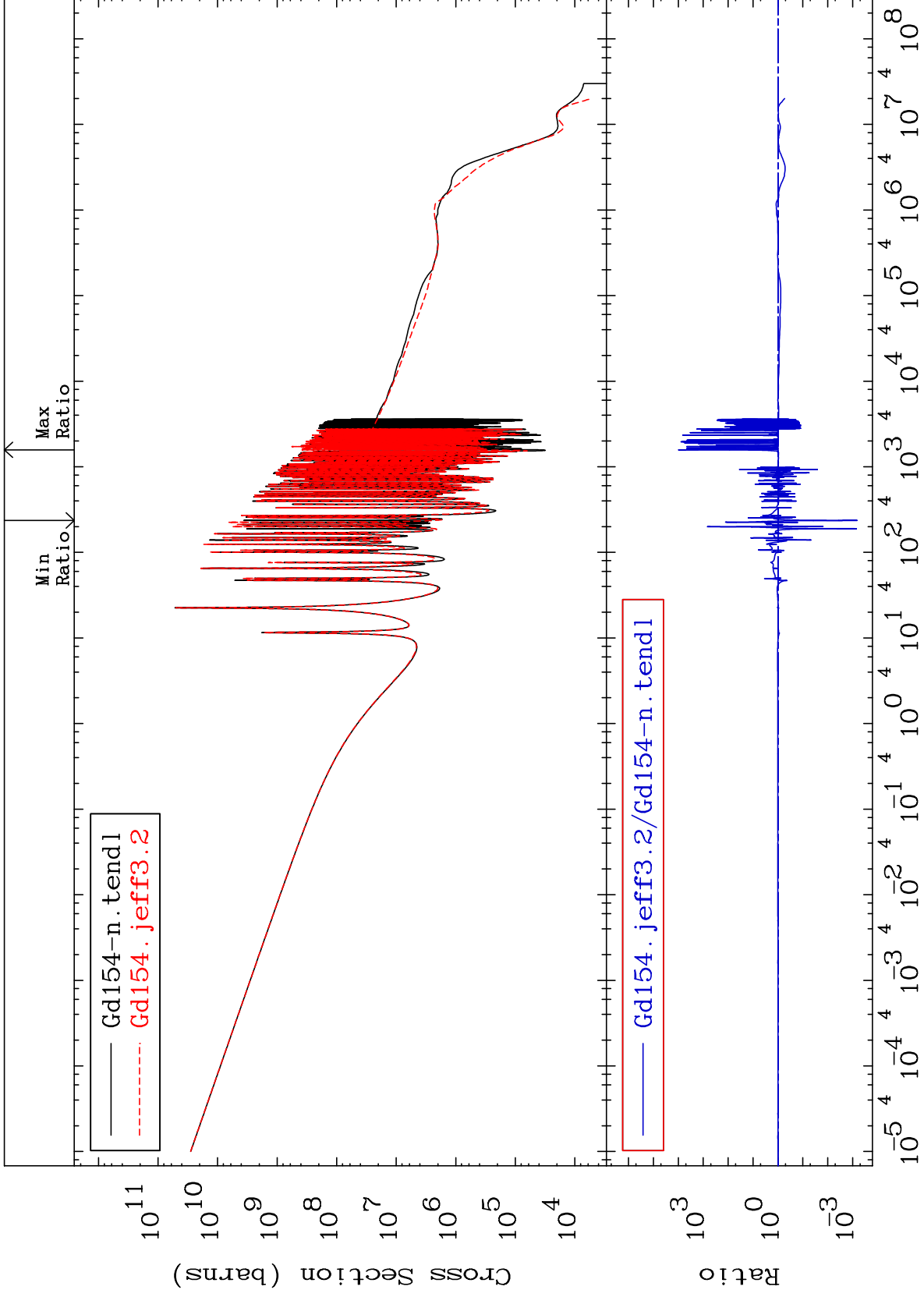
Incident Energy (eV)

64-Gd-154

MAT 6431

Kerma capture (mt102)
Cross Section

64-Gd-154
-99.93 To 9999. %



47

Incident Energy (eV)

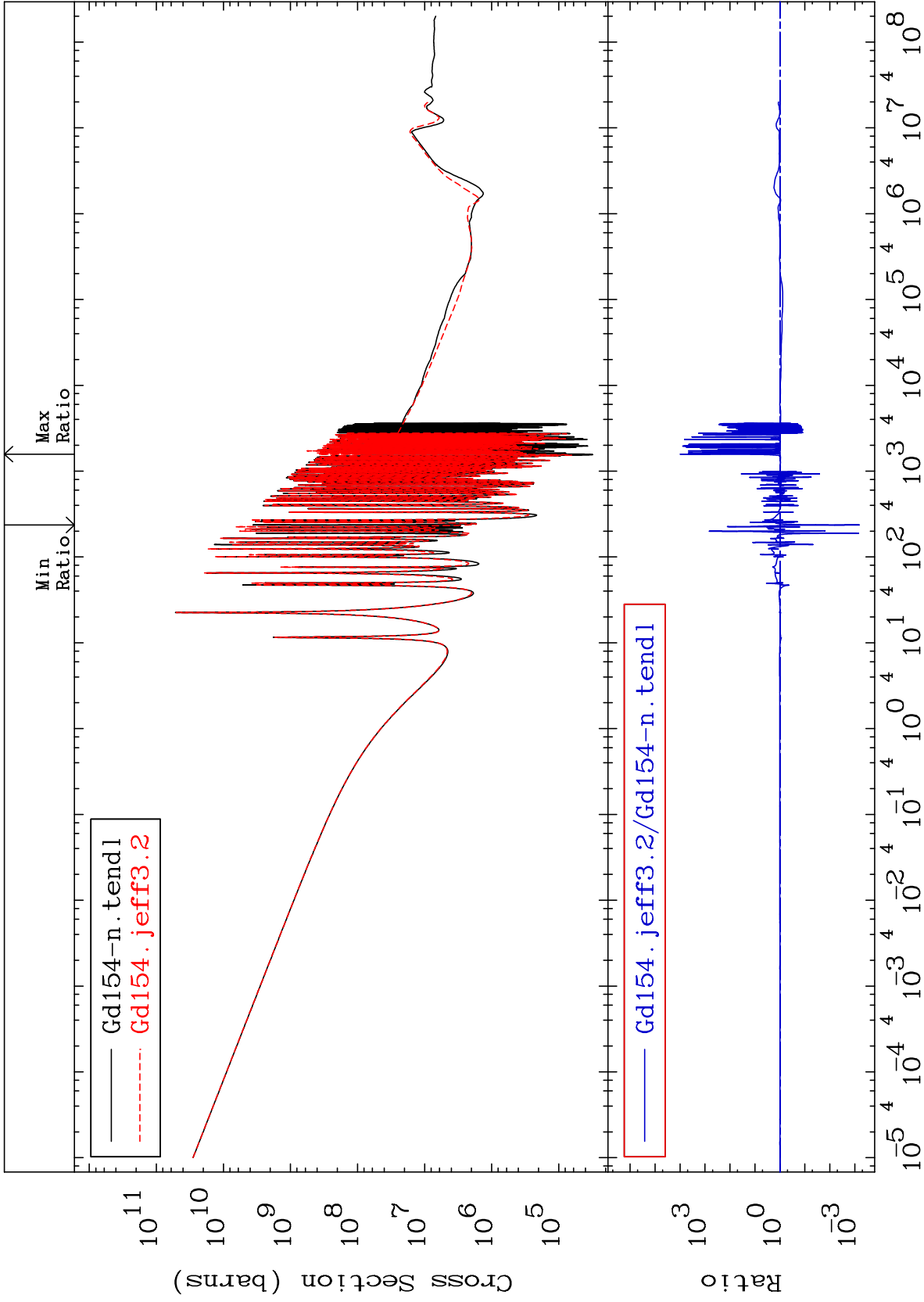
64-Gd-154

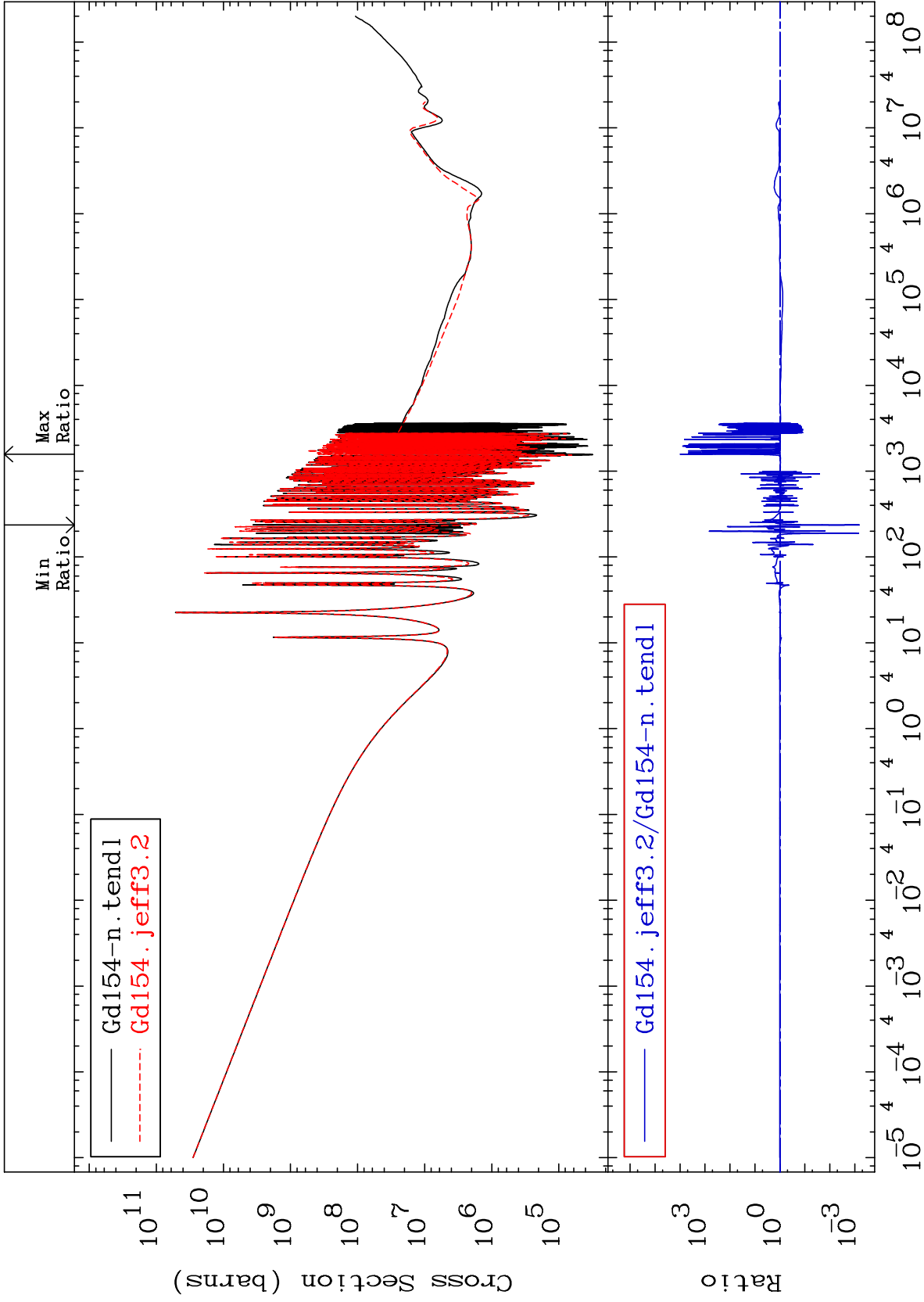
MAT 6431

Total photon (eV-barns)
Cross Section

64-Gd-154

-99.93 To 9999. %



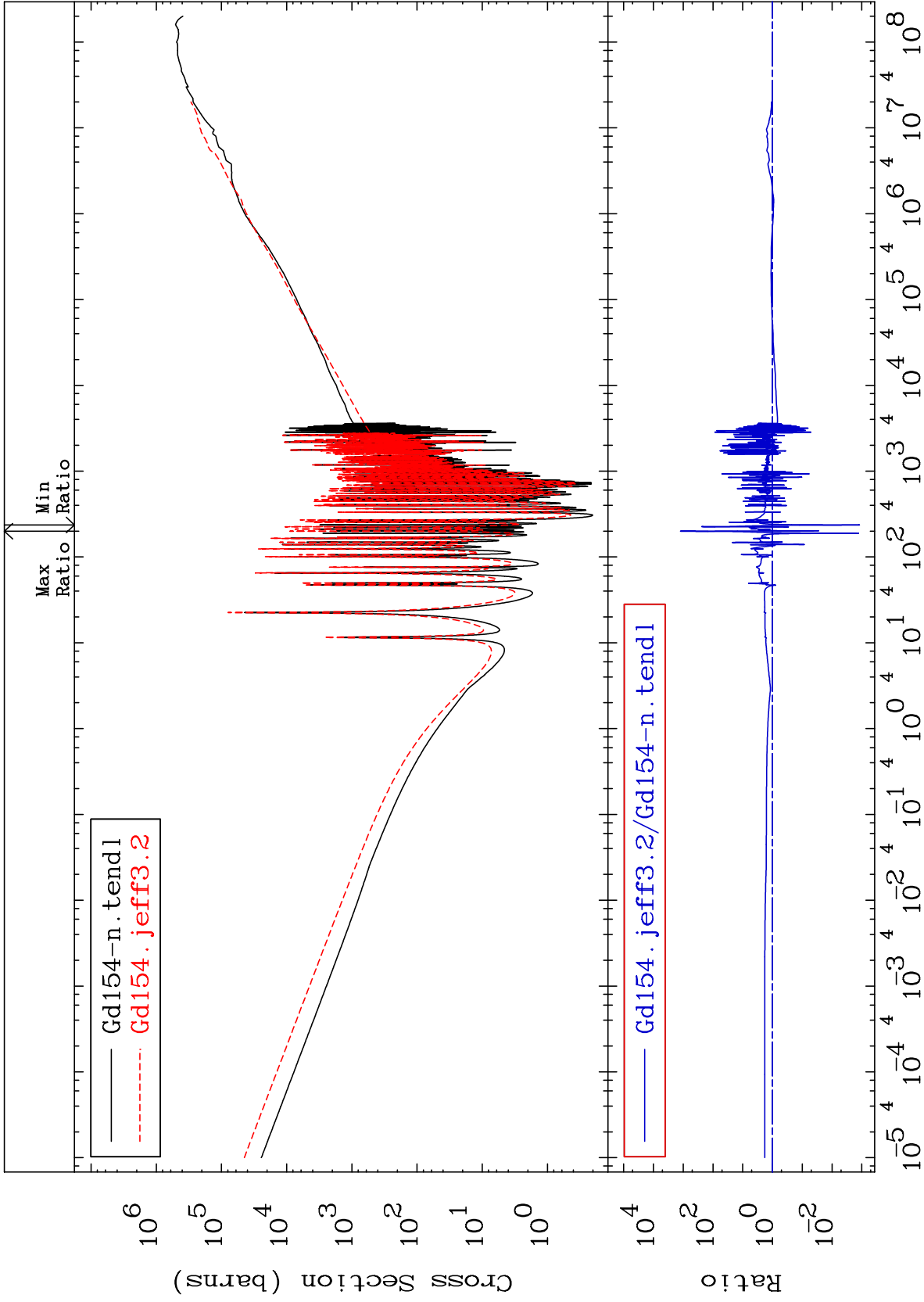


MAT 6431

Dpa total (eV-barns)

64-Gd-154

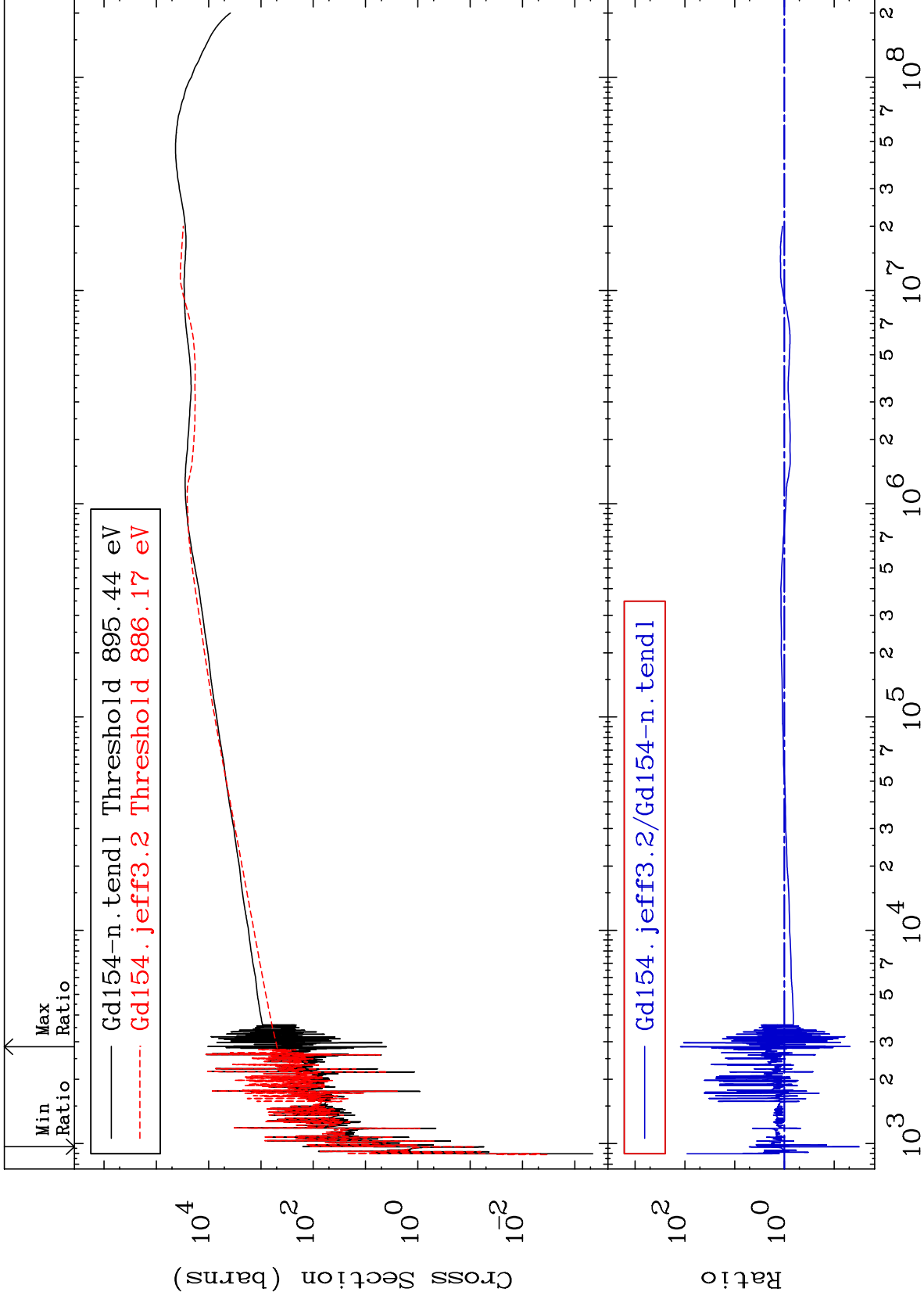
-99.88 To 9999. %



MAT 6431

Dpa elastic (mt2)
Cross Section

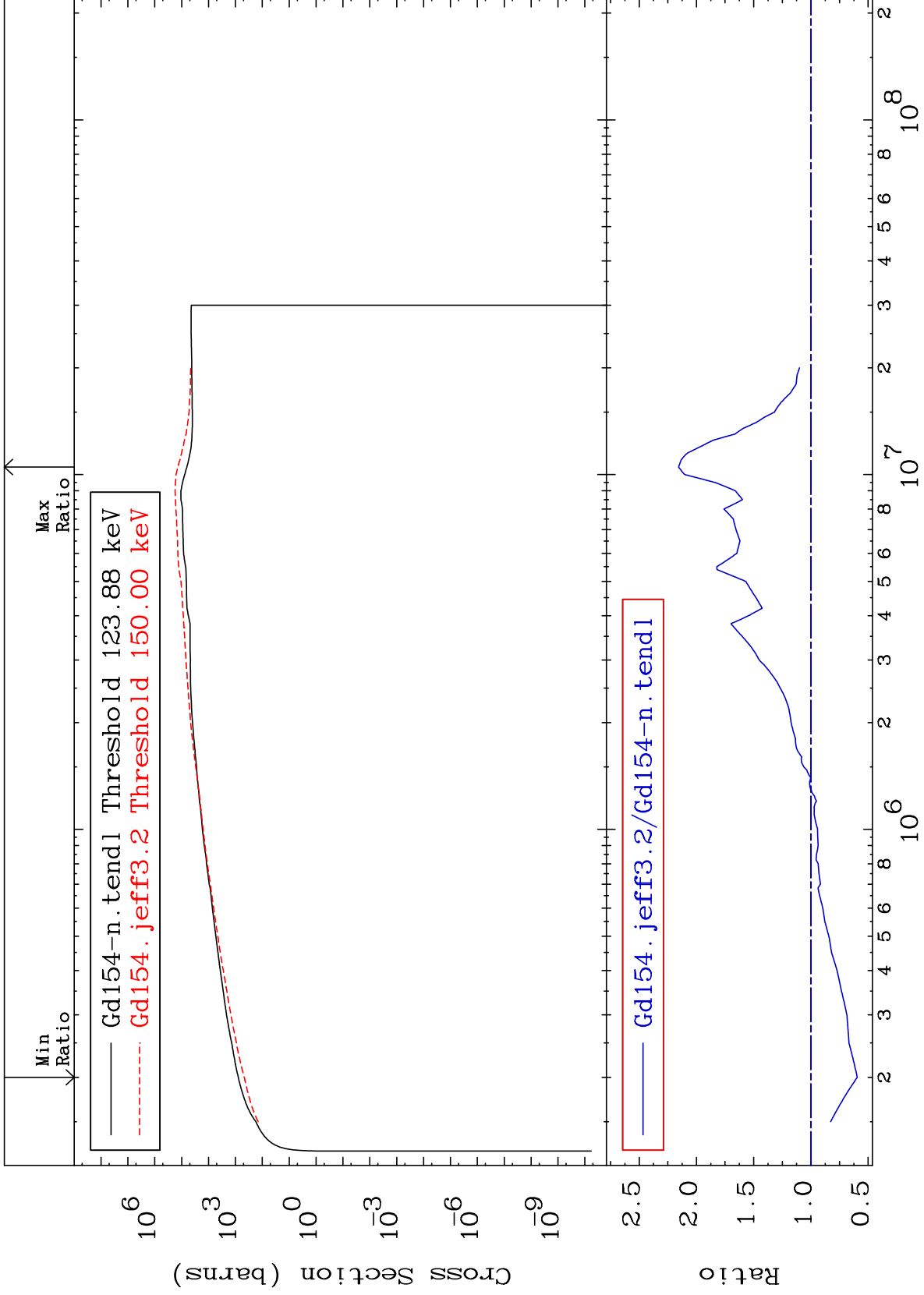
64-Gd-154
-96.89 To 9999. %



MAT 6431

Dpa inelastic (mt51-91)
Cross Section

64-Gd-154
-40.47 To 115.6 %



MAT 6431

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-154
-99.88 To 9999. %

