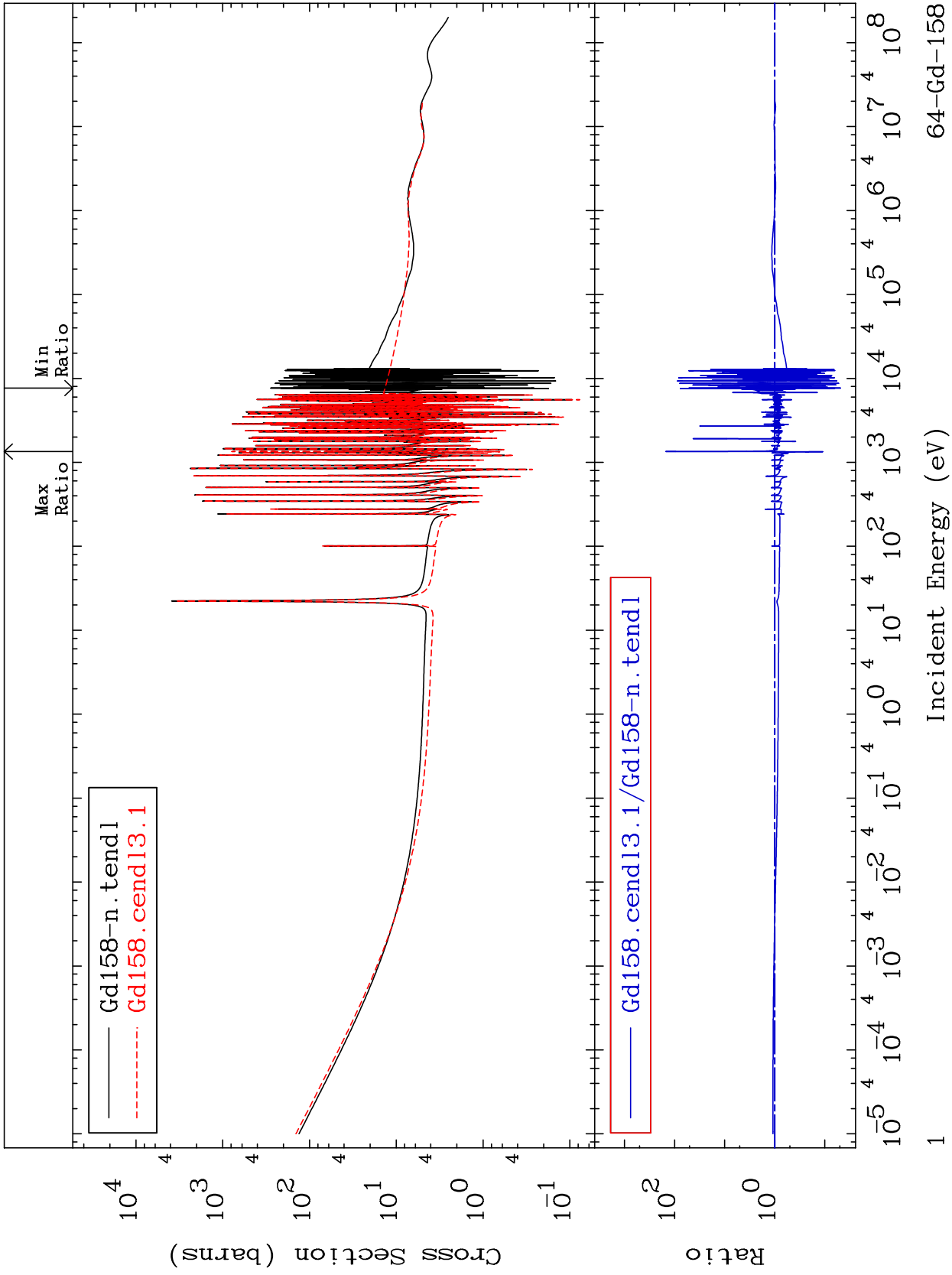


MAT 6443

Total Cross Section
64-Gd-158
-95.18 To 9999. %

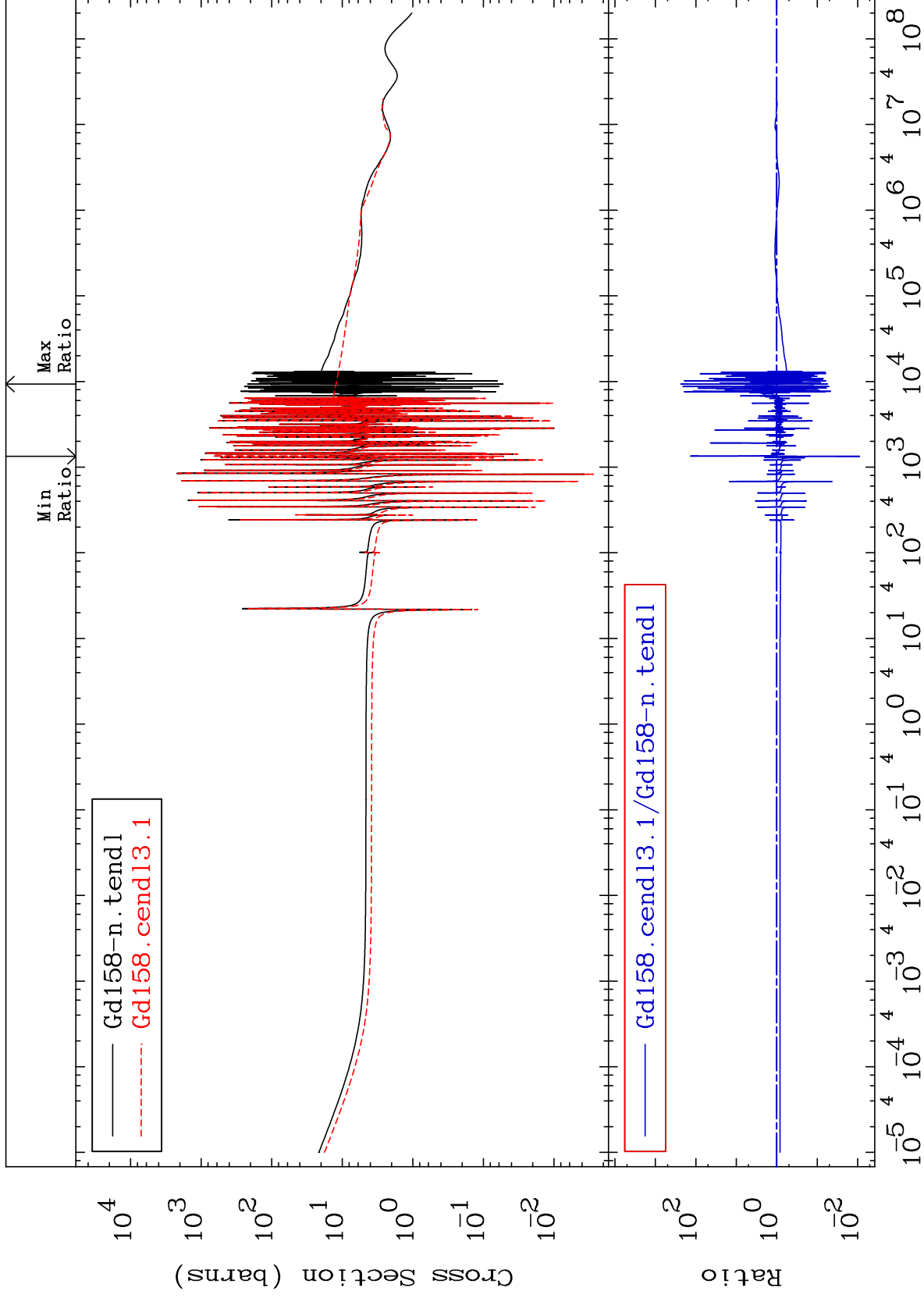


64-Gd-158

MAT 6443

Elastic
Cross Section

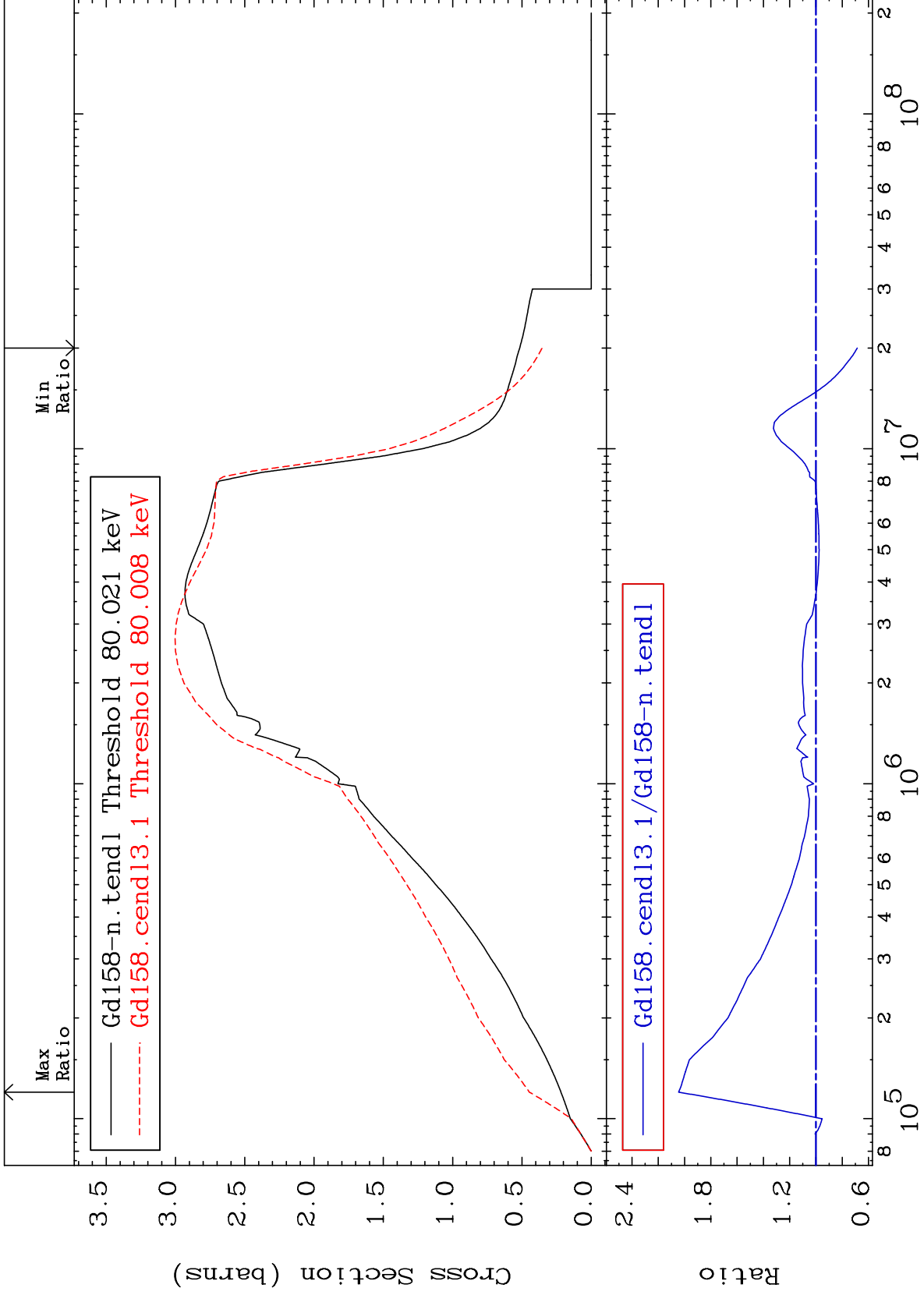
64-Gd-158
-99.10 To 9999. %



MAT 6443

Inelastic
Cross Section

64-Gd-158
-31.43 To 104.5 %



3

Incident Energy (eV)

64-Gd-158

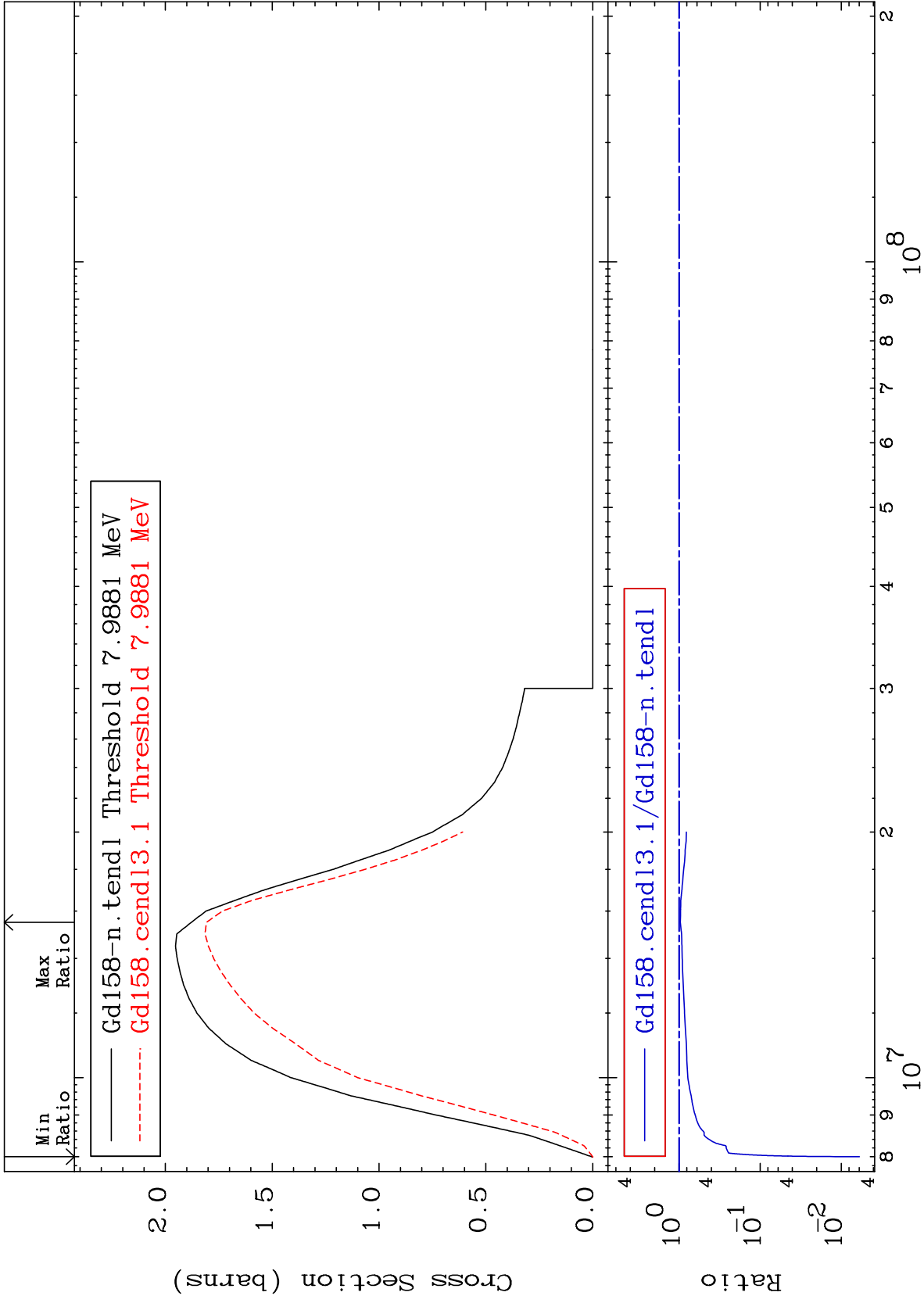
MAT 6443

(n,2n)

64-Gd-158

Cross Section

-99.40 To -3.751%



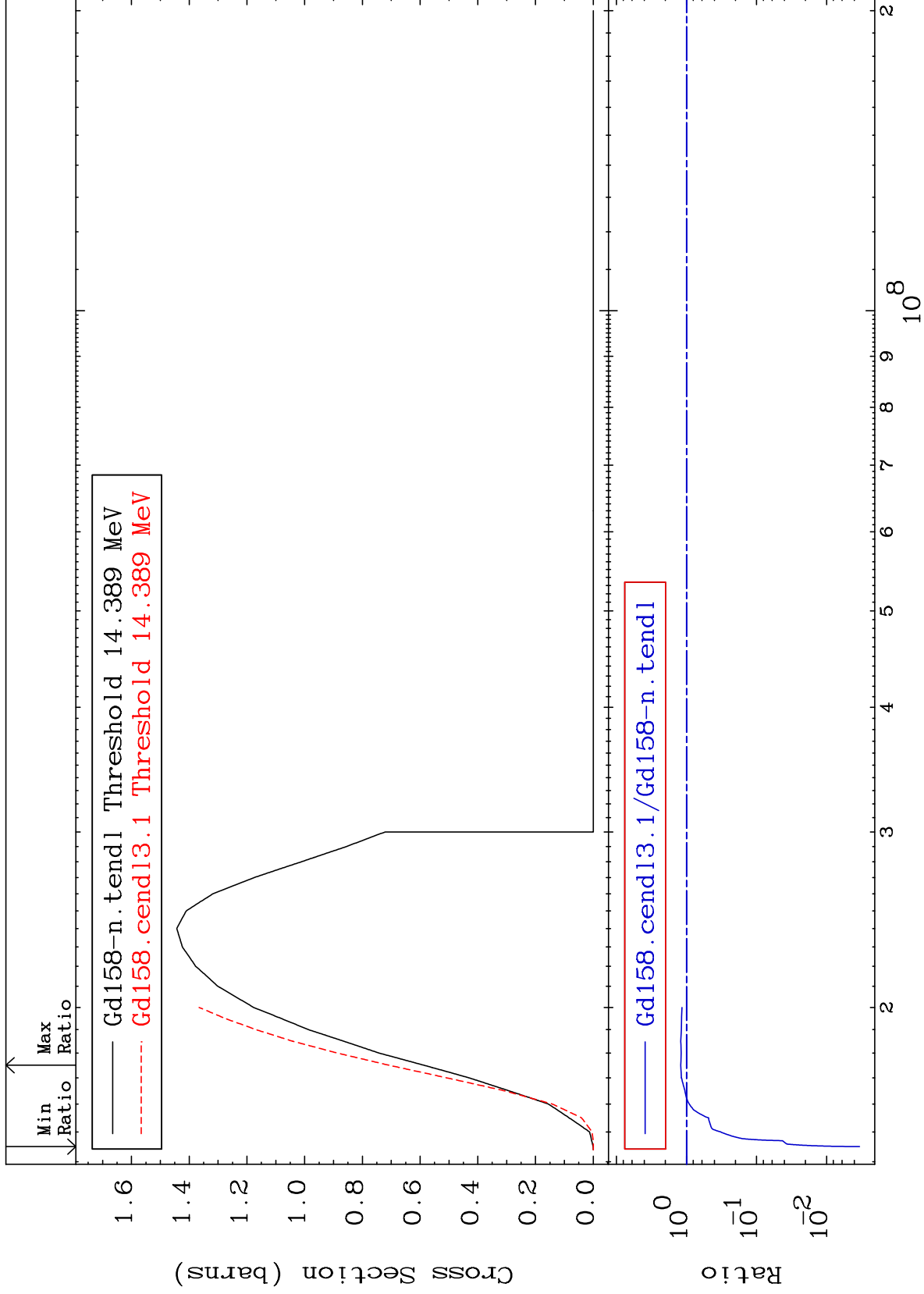
4

Incident Energy (eV)

64-Gd-158

Cross Section

-99.66 To 20.66 %



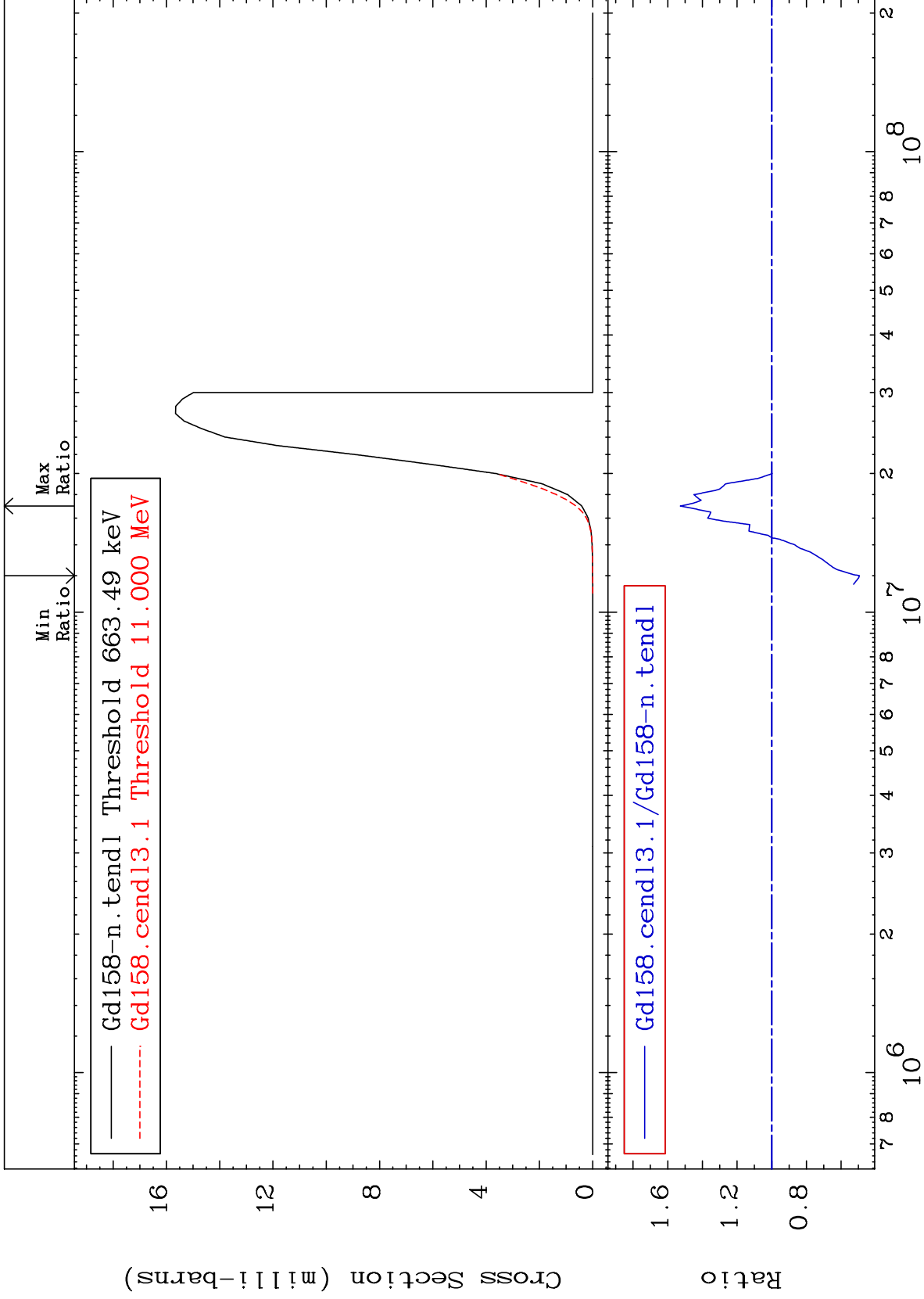
MAT 6443

(n, n') α

64-Gd-158

Cross Section

-50.57 To 52.71 %



6

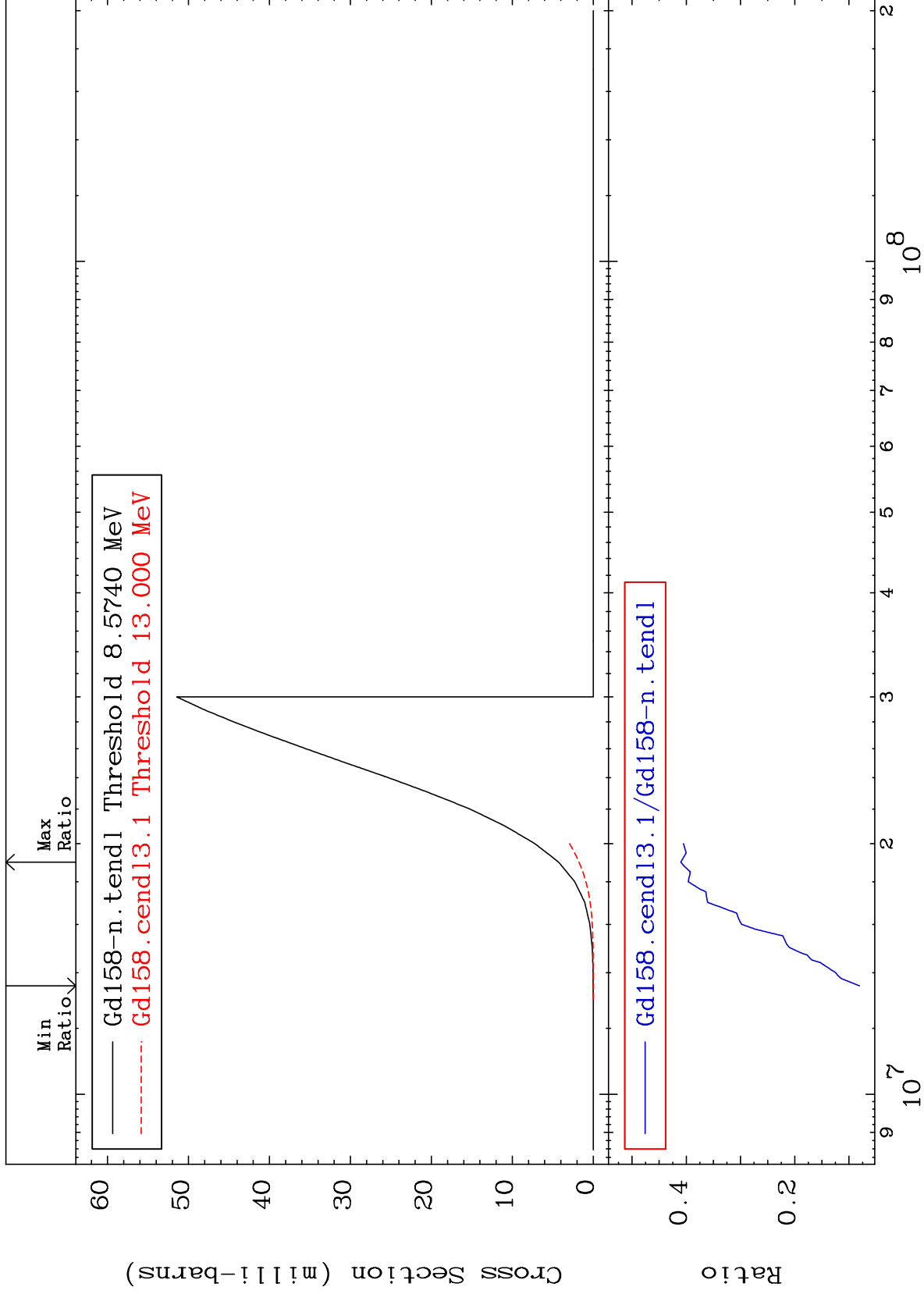
Incident Energy (eV)

64-Gd-158

MAT 6443

(n,n') p
Cross Section

64-Gd-158
-91.94 To -58.98%



7

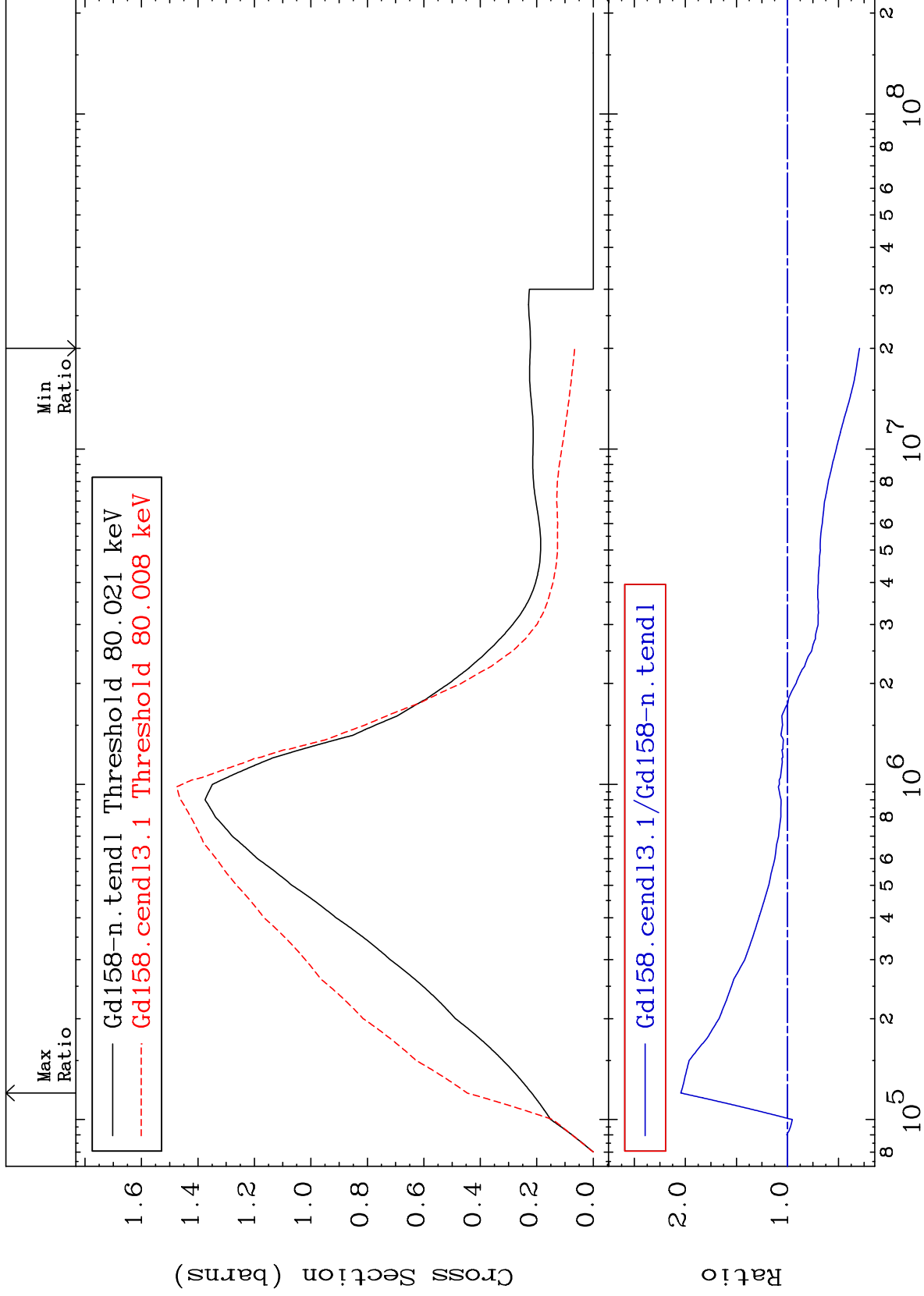
Incident Energy (eV)

64-Gd-158

MAT 6443

79.51 keV (n,n') Level
Cross Section

64-Gd-158
-70.62 To 104.5 %



8

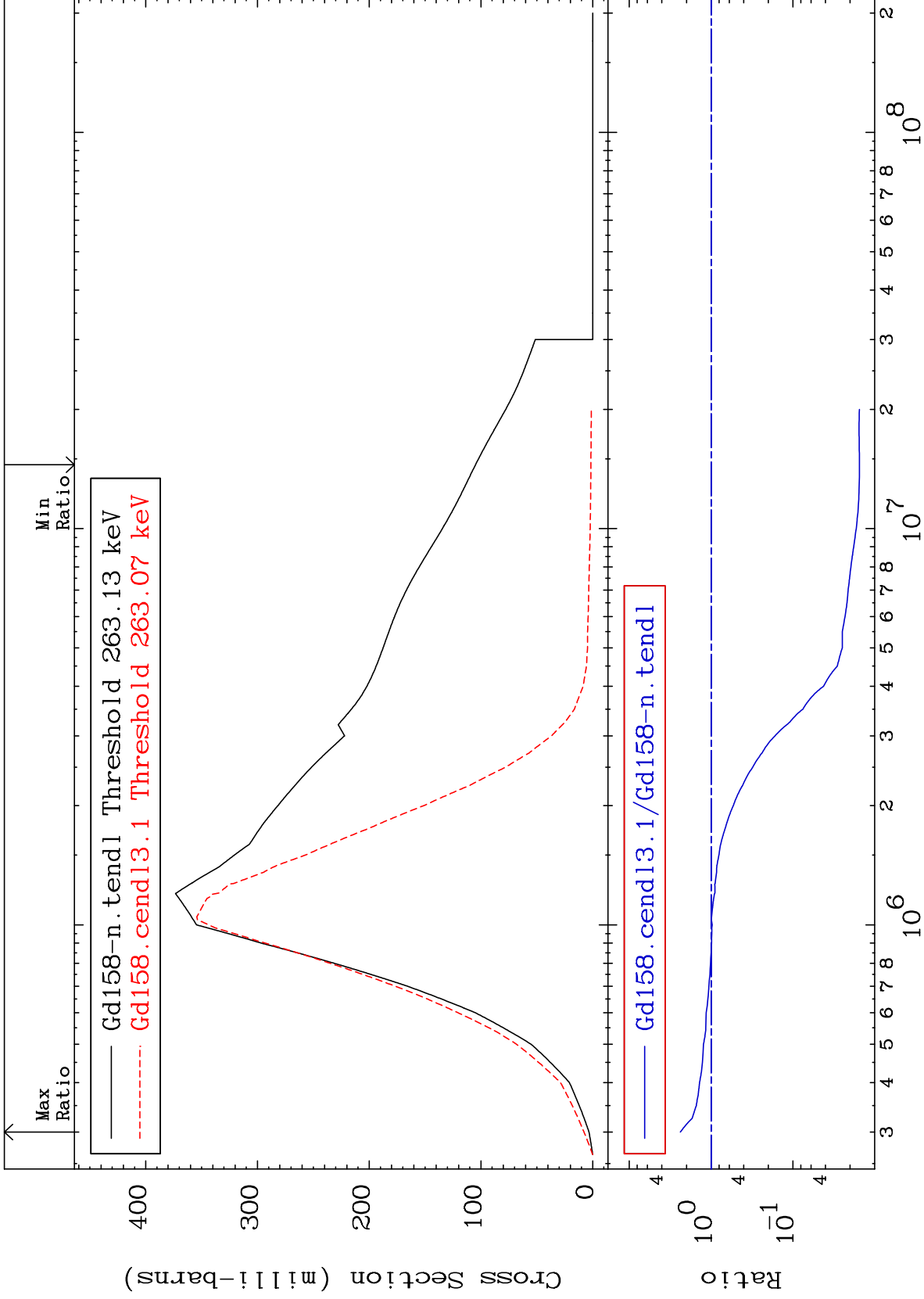
Incident Energy (eV)

64-Gd-158

MAT 6443

261.5 keV (n,n') Level
Cross Section

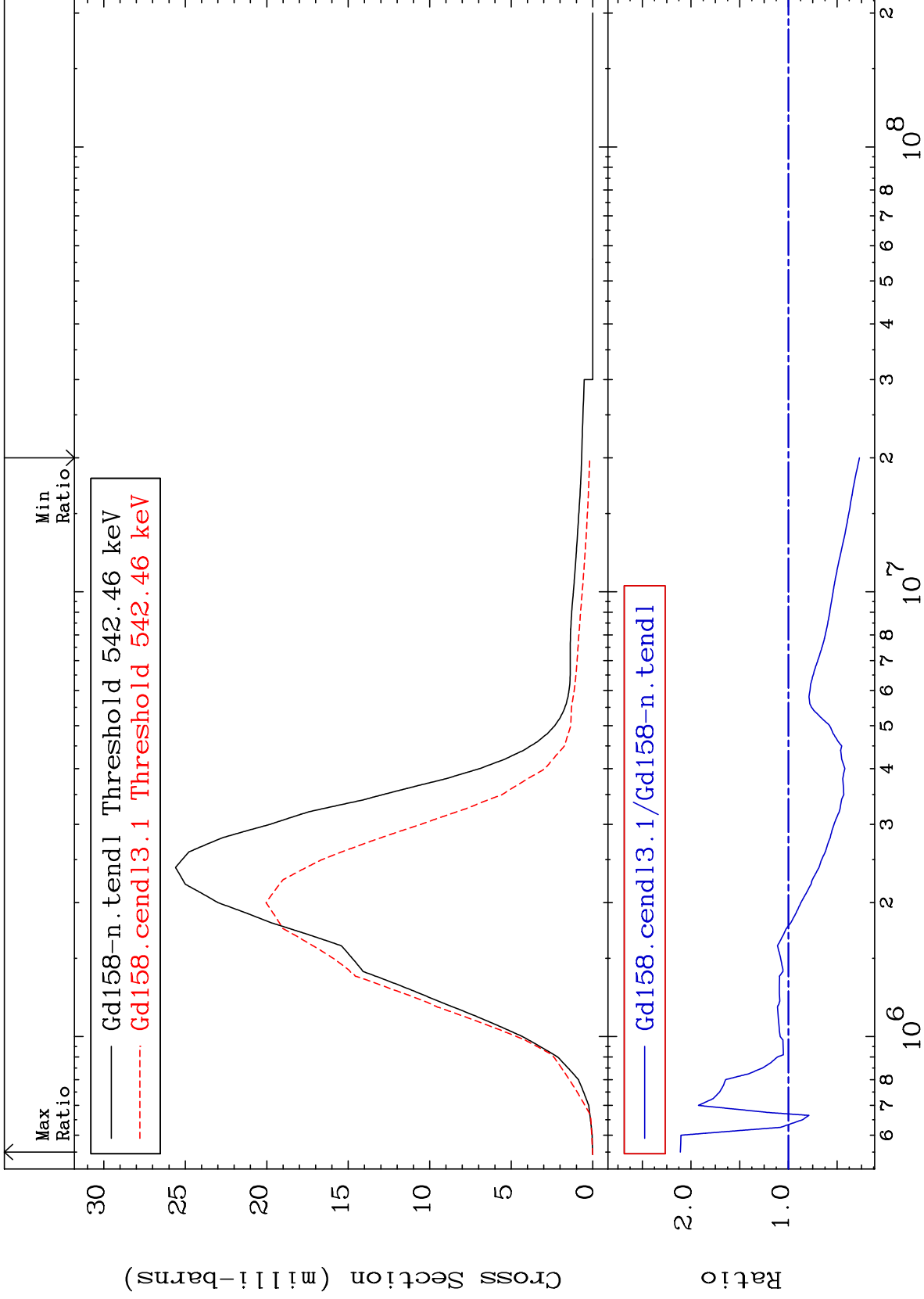
64-Gd-158
-98.46 To 137.6 %



MAT 6443

539.0 keV (n,n') Level
Cross Section

64-Gd-158
-72.90 To 111.0 %



10

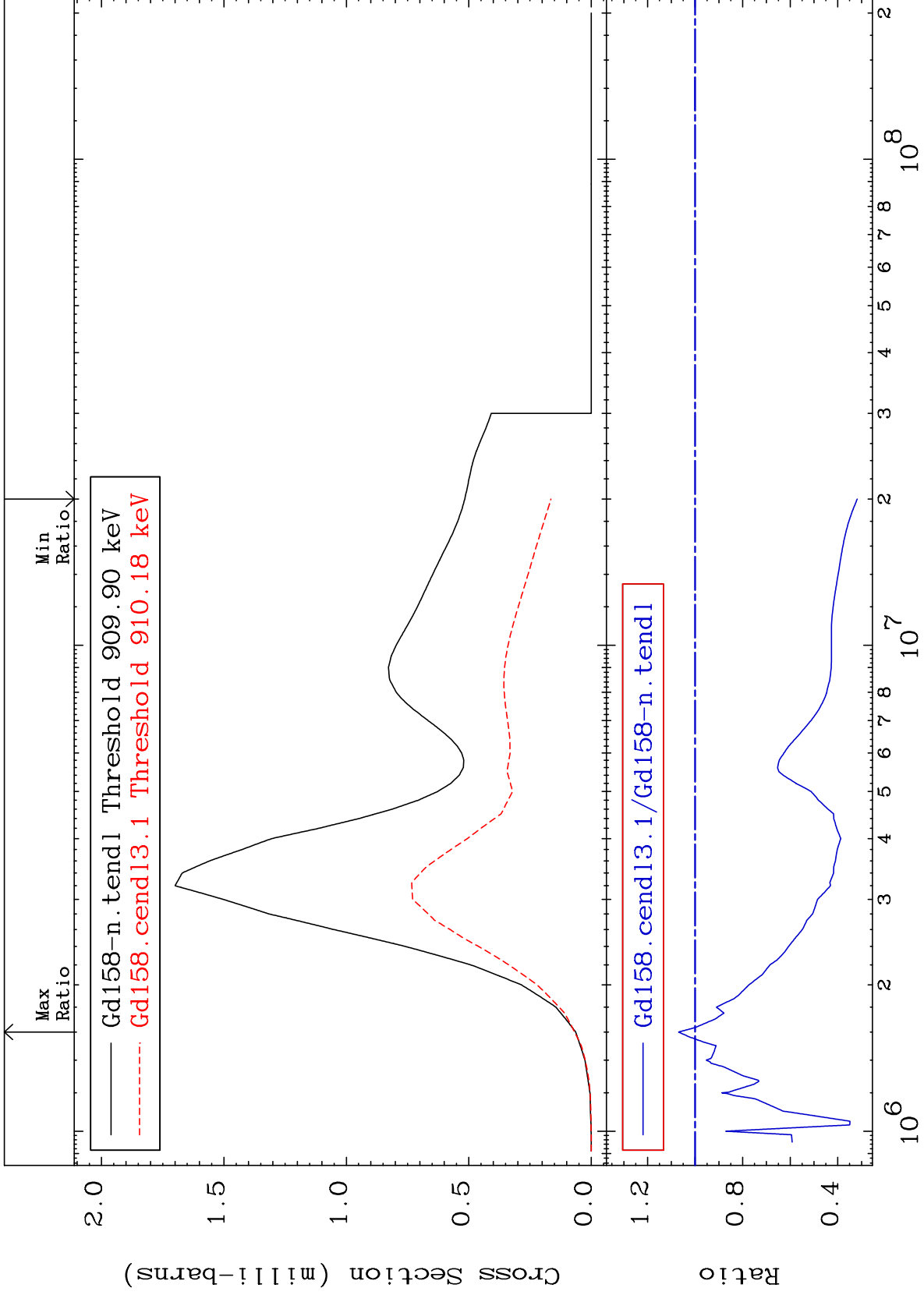
Incident Energy (eV)

64-Gd-158

MAT 6443

904.1 keV (n,n') Level
Cross Section

64-Gd-158
-68.20 To 6.932 %



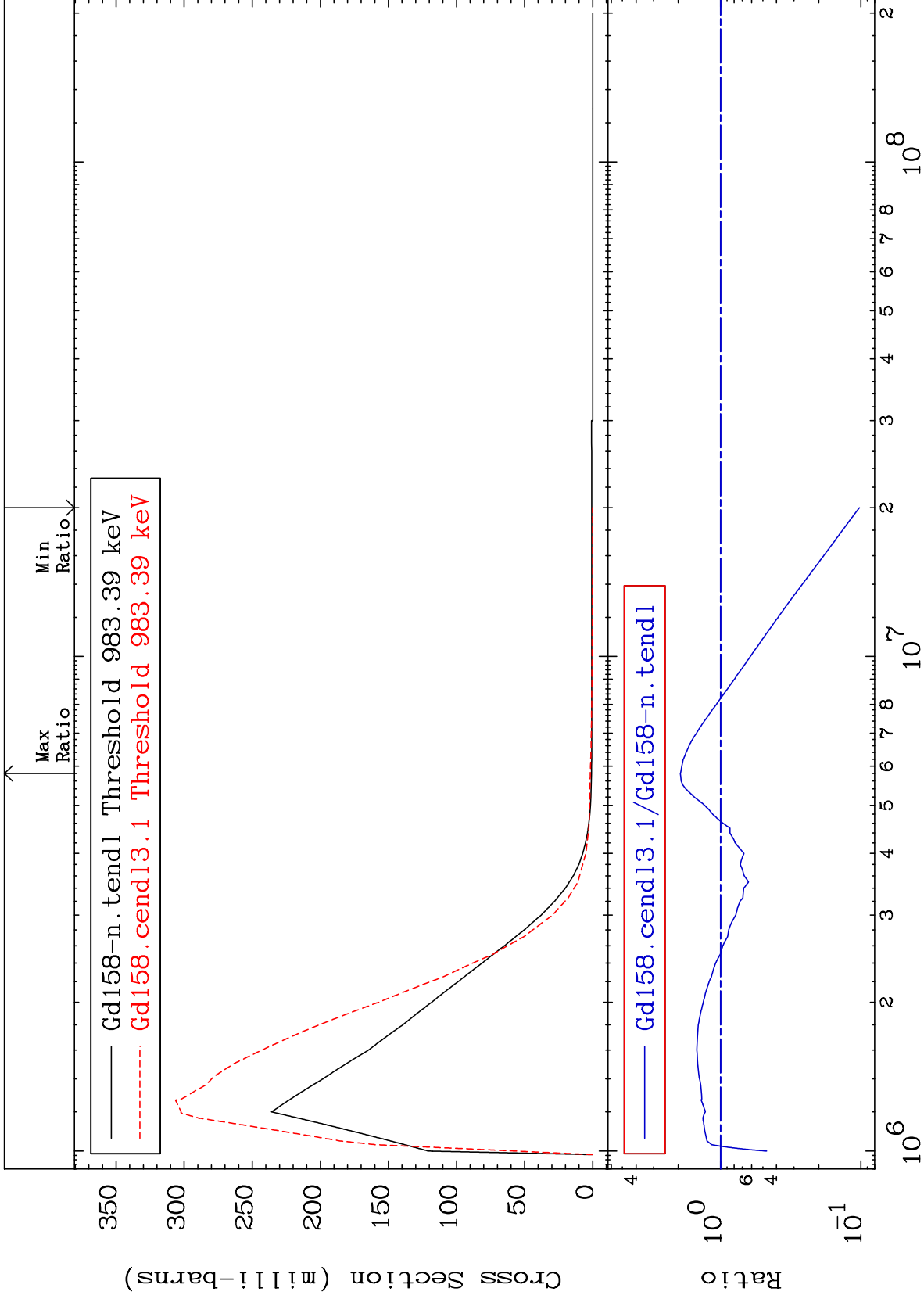
11

64-Gd-158

MAT 6443

977.1 keV (n,n') Level
Cross Section

64-Gd-158
-89.75 To 93.35 %



12

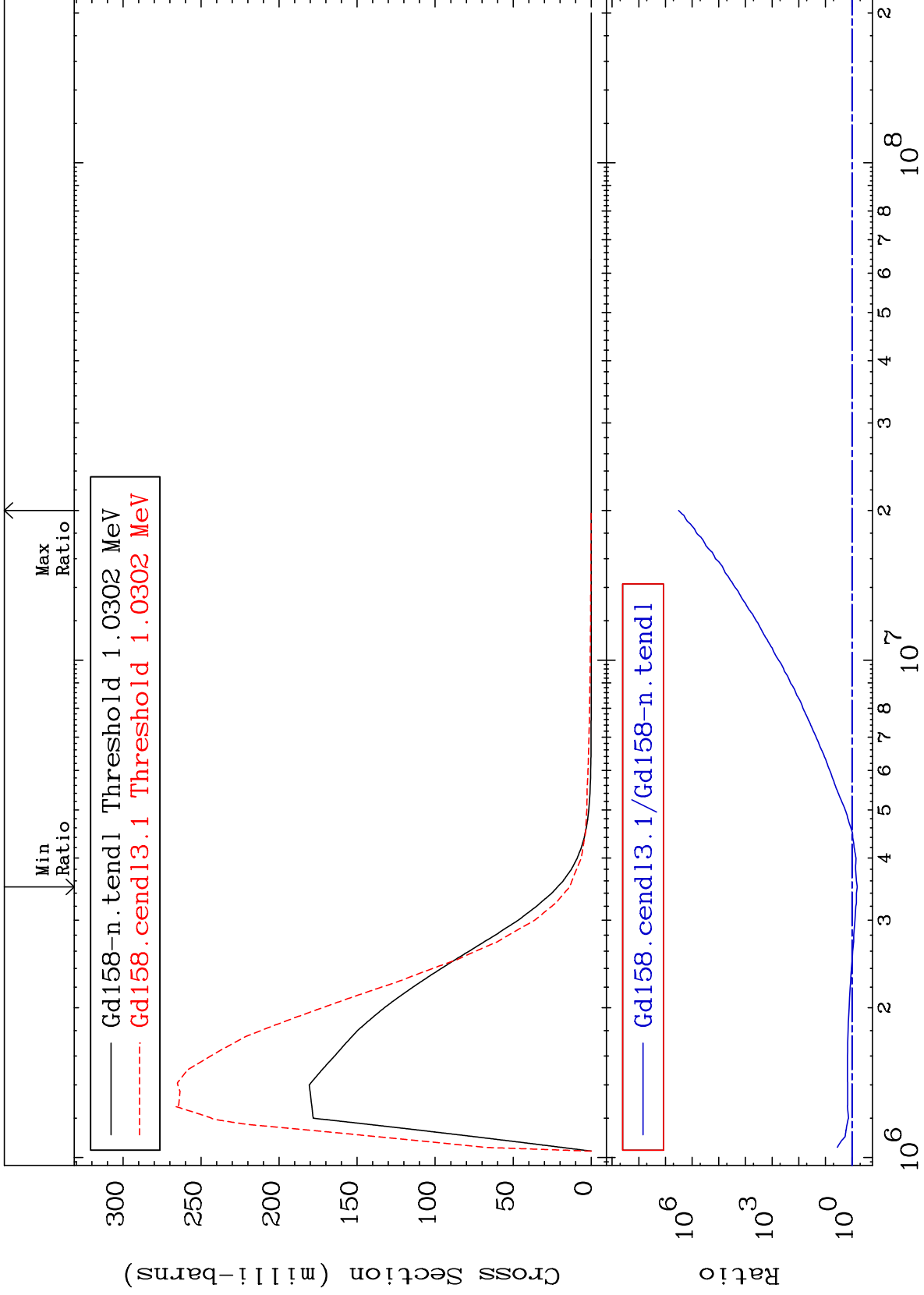
Incident Energy (eV)

64-Gd-158

MAT 6443

1.024 MeV (n,n') Level
Cross Section

64-Gd-158
-35.96 To 9999. %



13

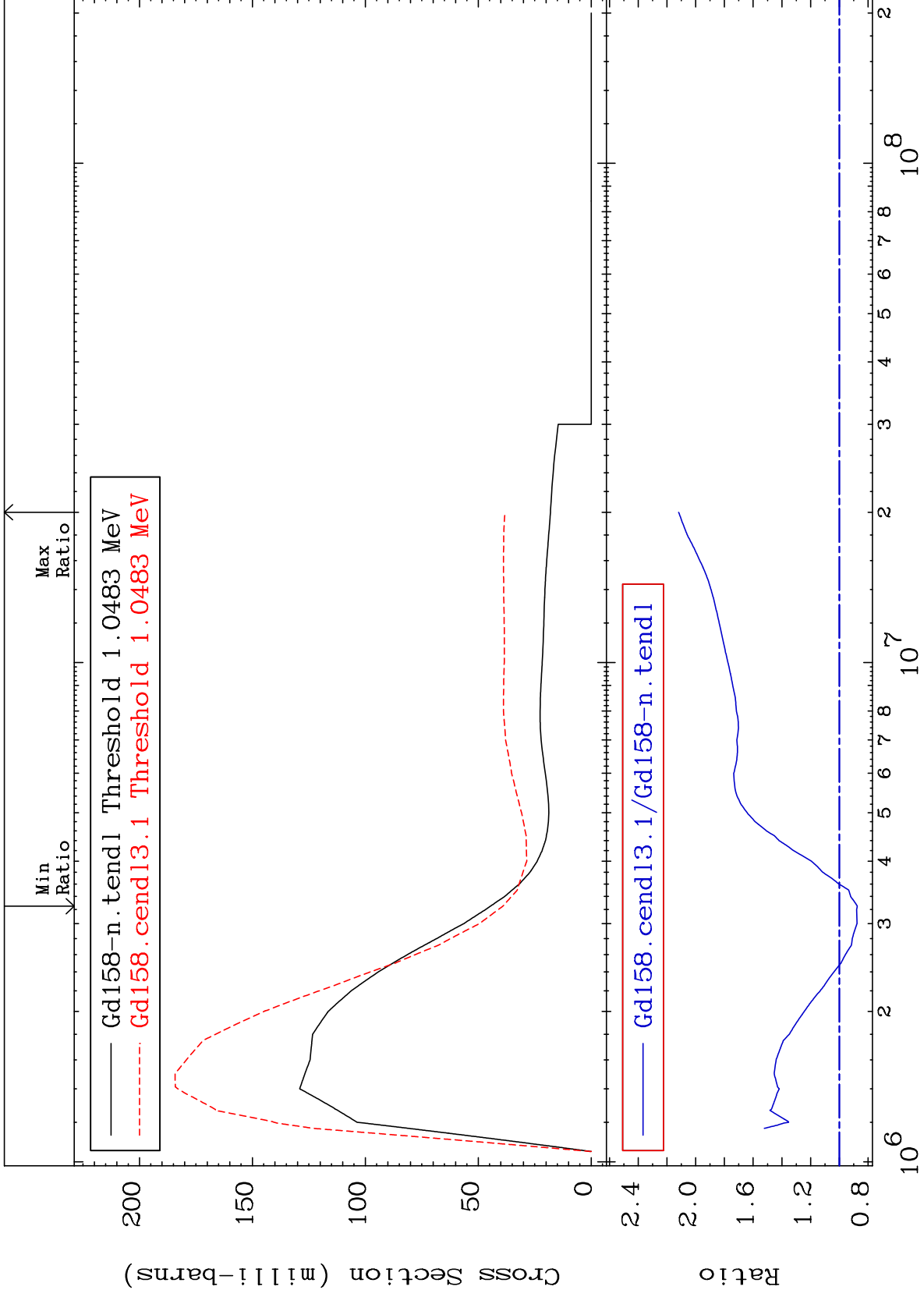
Incident Energy (eV)

64-Gd-158

MAT 6443

1.042 MeV (n,n') Level
Cross Section

64-Gd-158
-12.48 To 111.9 %



14

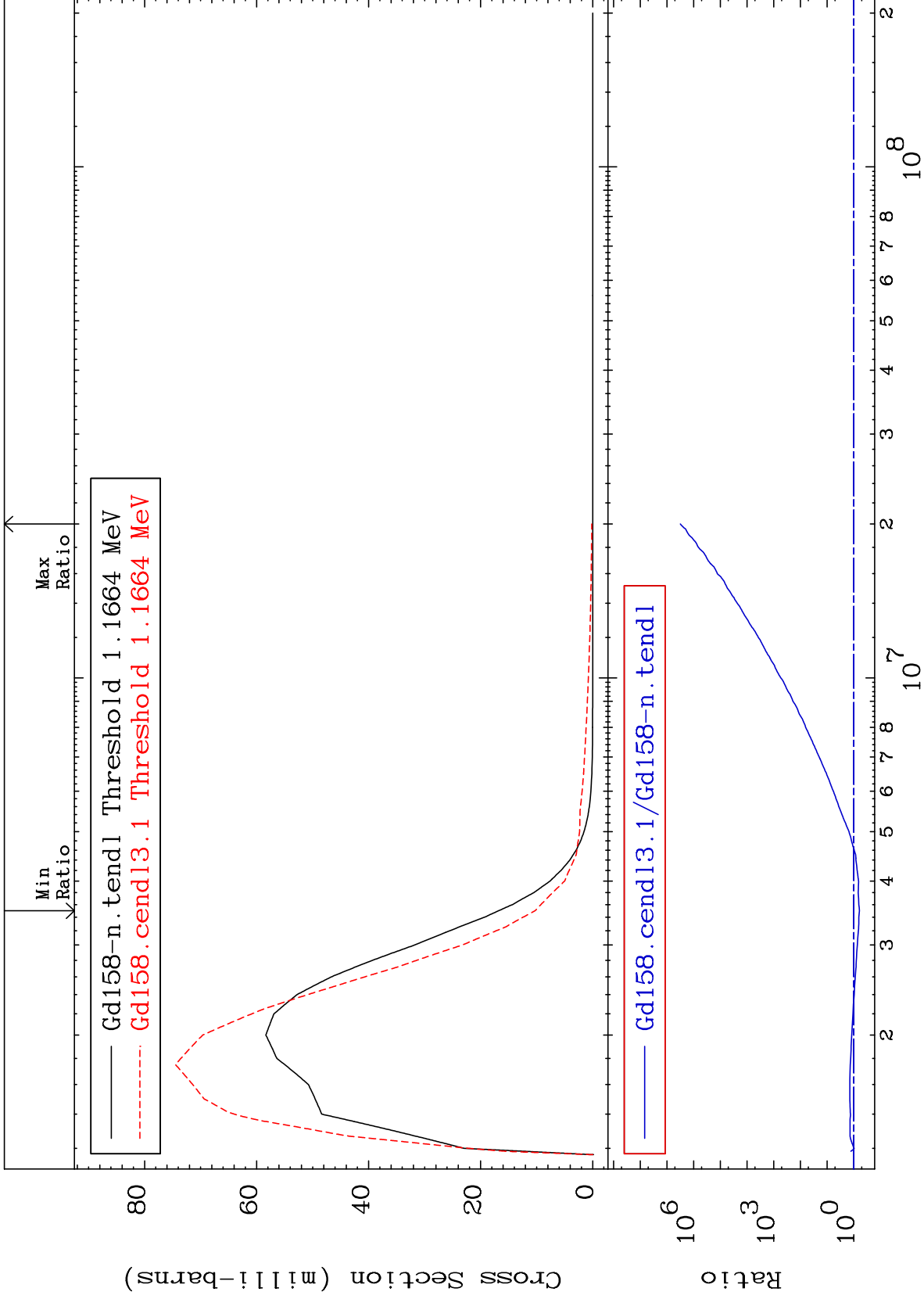
Incident Energy (eV)

64-Gd-158

MAT 6443

1.159 MeV (n,n') Level
Cross Section

64-Gd-158
-38.82 To 9999. %



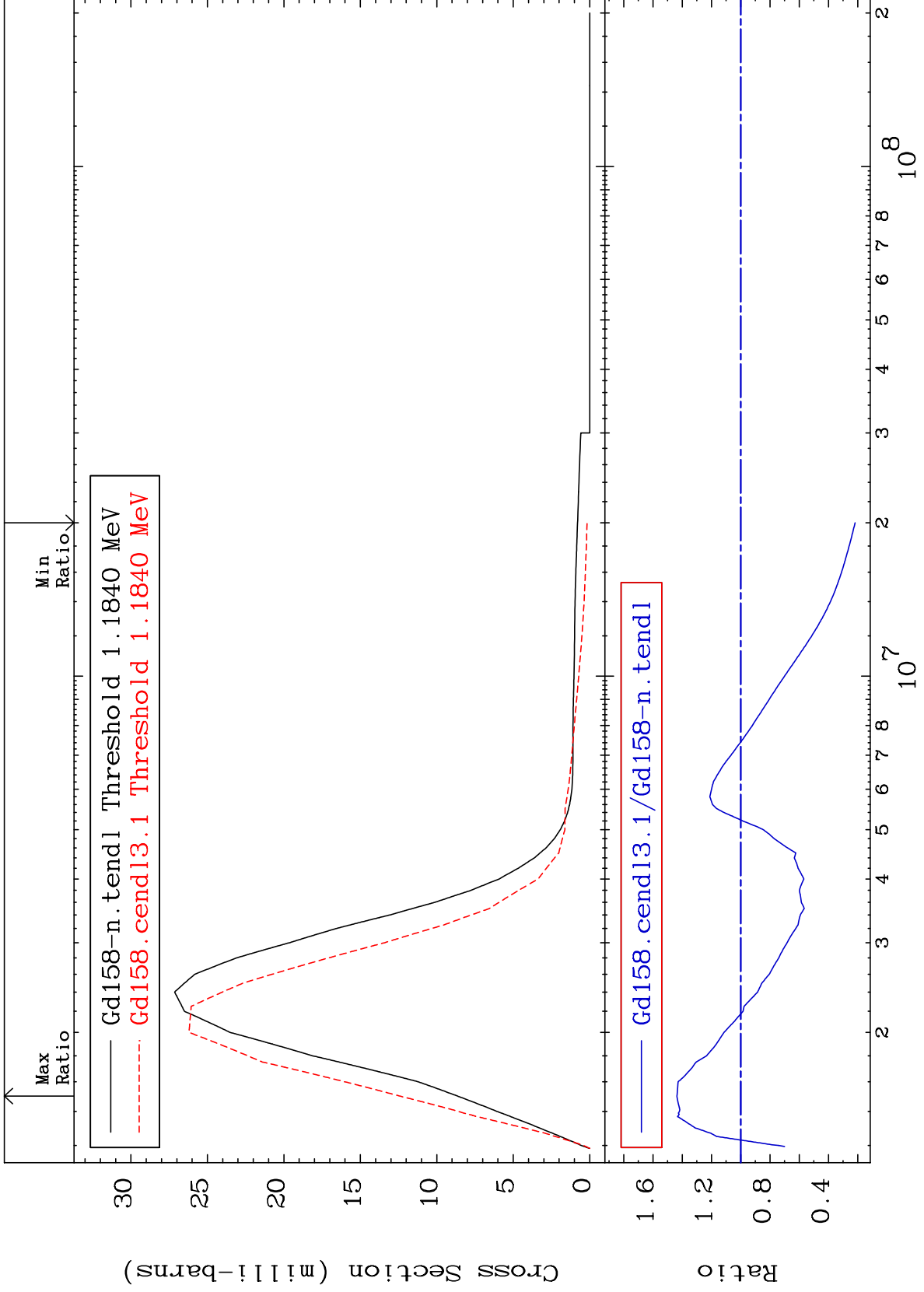
15

64-Gd-158

MAT 6443

1.176 MeV (n,n') Level
Cross Section

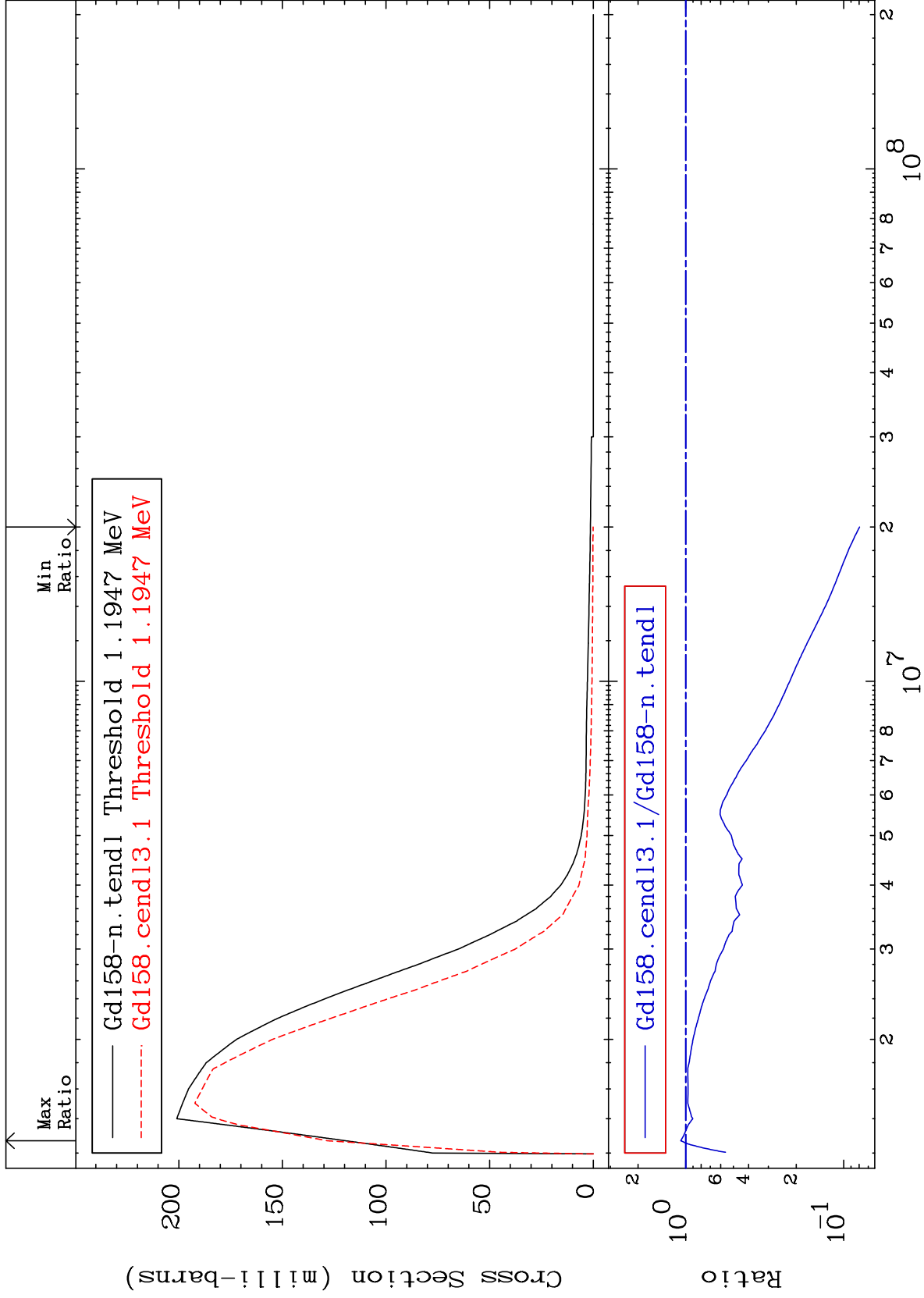
64-Gd-158
-78.21 To 43.63 %



MAT 6443

1.187 MeV (n,n') Level
Cross Section

64-Gd-158
-92.05 To 7.488 %



17

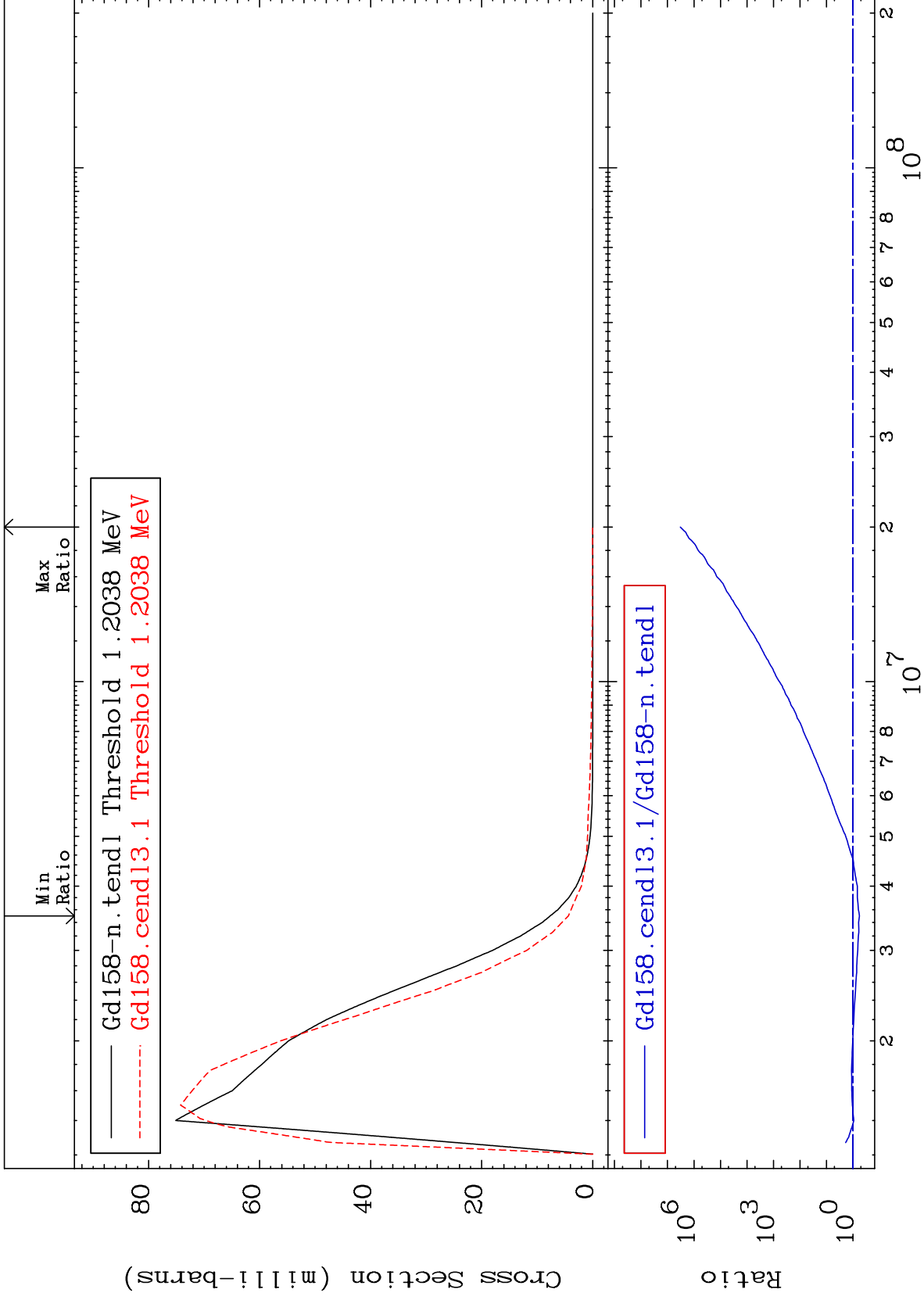
Incident Energy (eV)

64-Gd-158

MAT 6443

1.196 MeV (n,n') Level
Cross Section

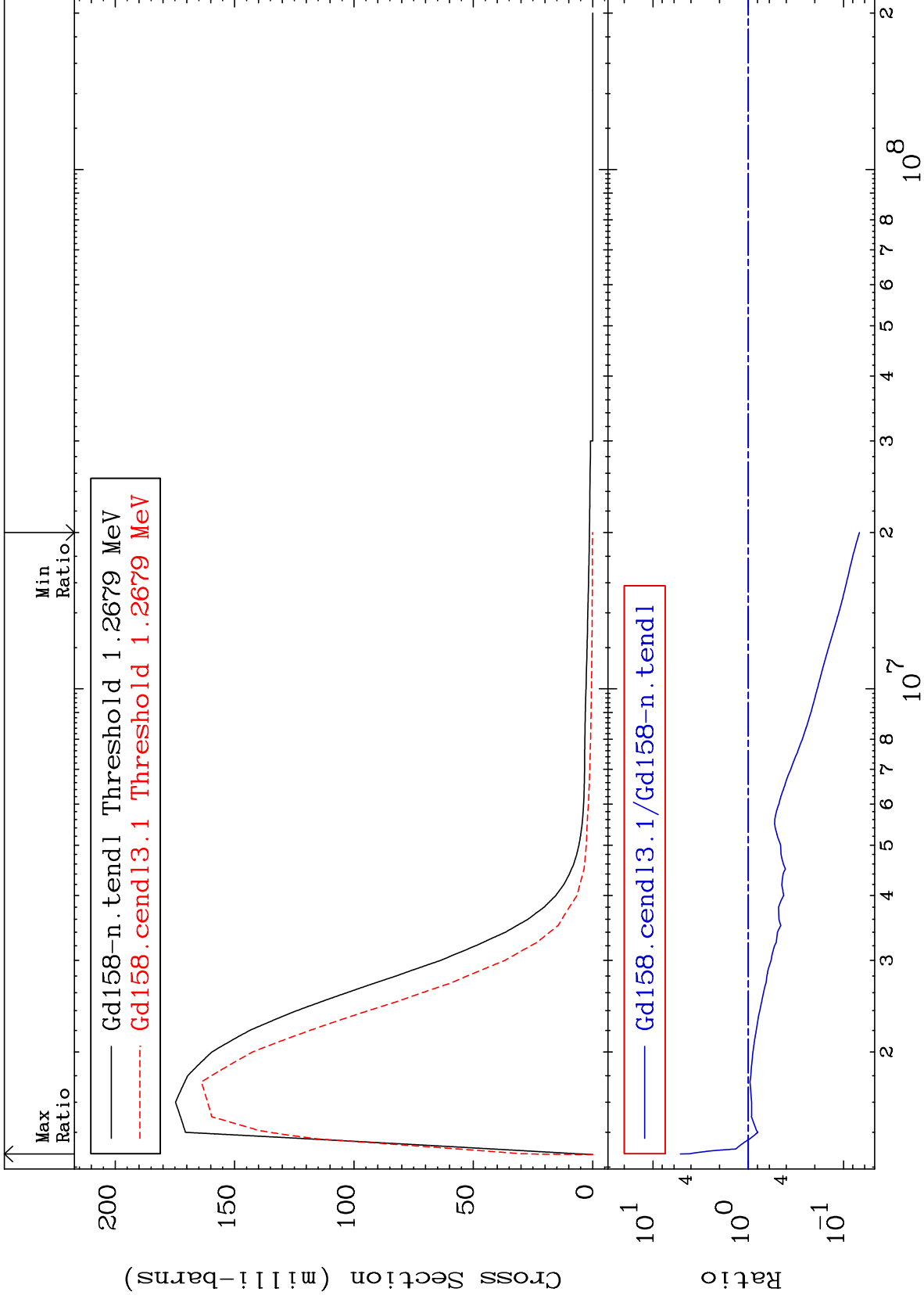
64-Gd-158
-42.84 To 9999. %



MAT 6443

1.260 MeV (n,n') Level
Cross Section

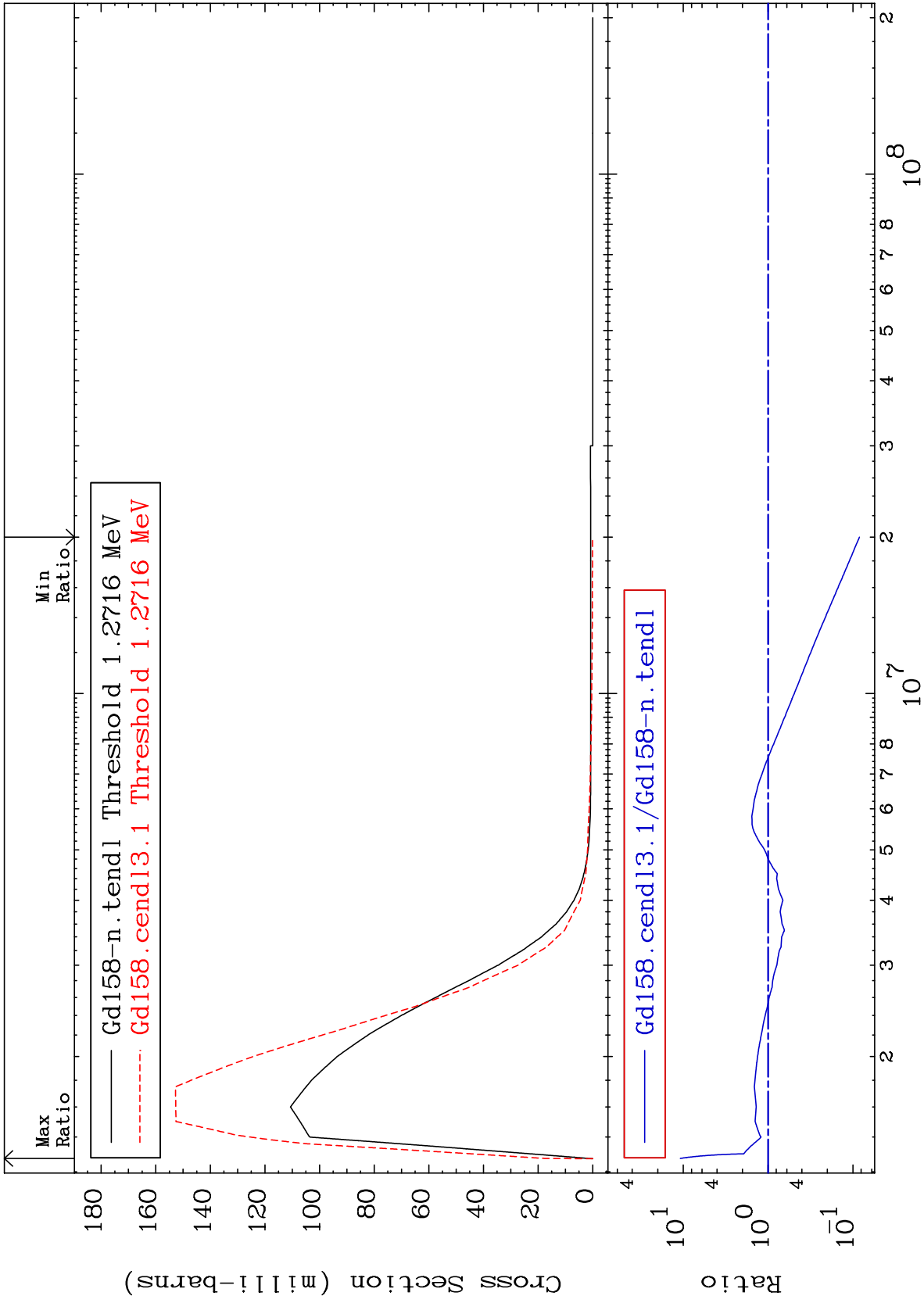
64-Gd-158
-93.19 To 416.1 %



MAT 6443

1.264 MeV (n,n') Level
Cross Section

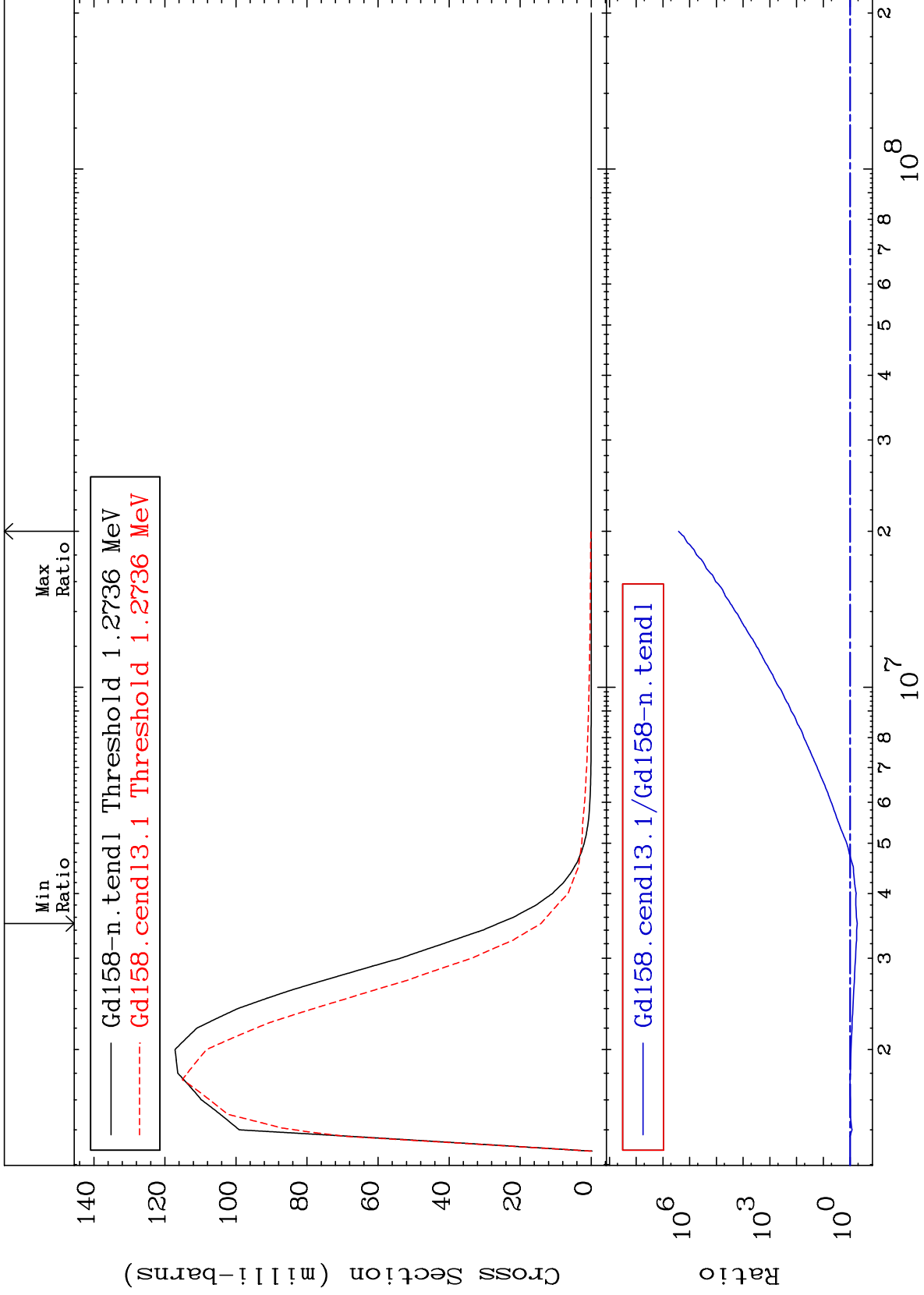
64-Gd-158
-91.63 To 982.9 %



MAT 6443

1.266 MeV (n,n') Level
Cross Section

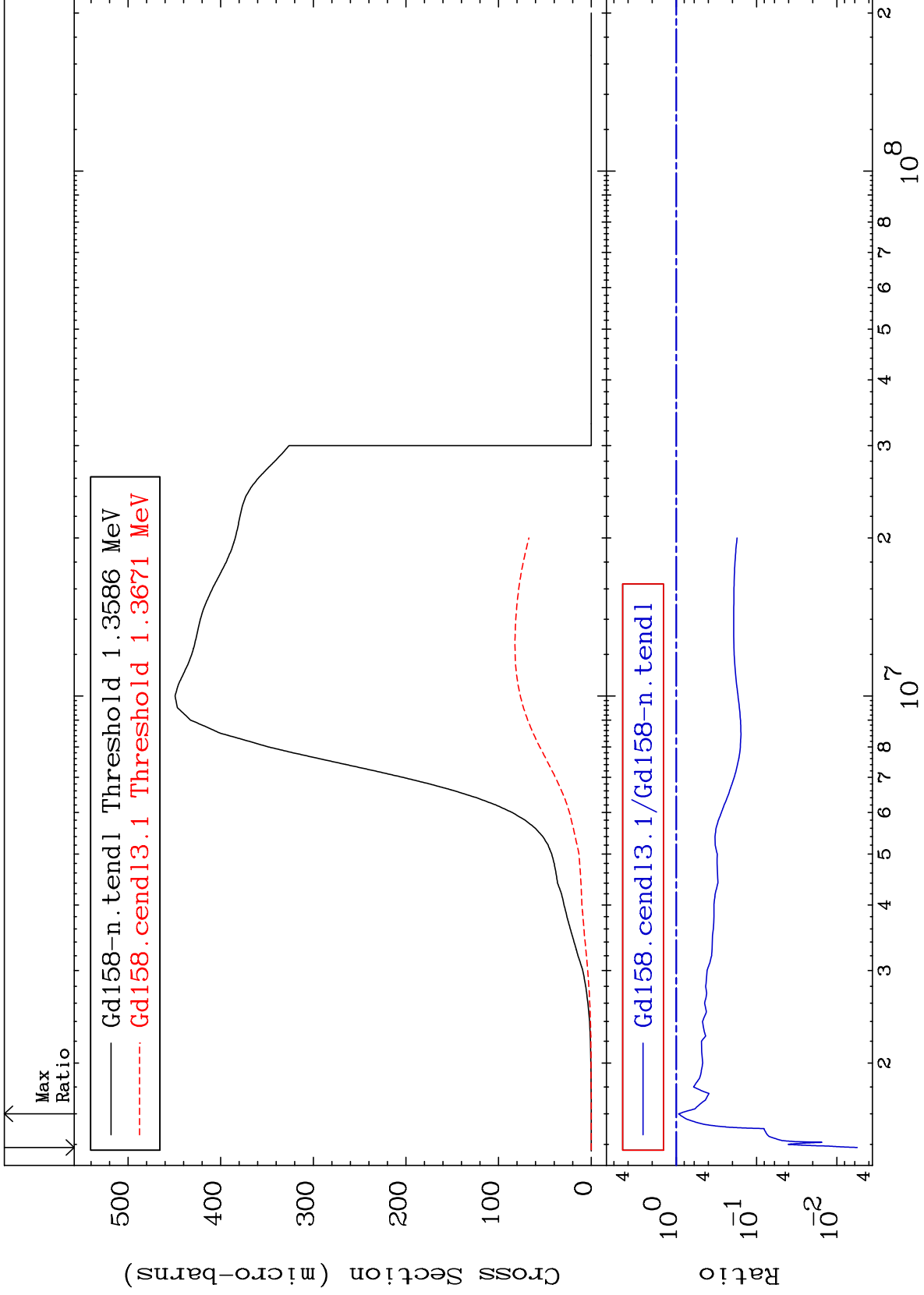
64-Gd-158
-46.07 To 9999. %



MAT 6443

1.350 MeV (n,n') Level
Cross Section

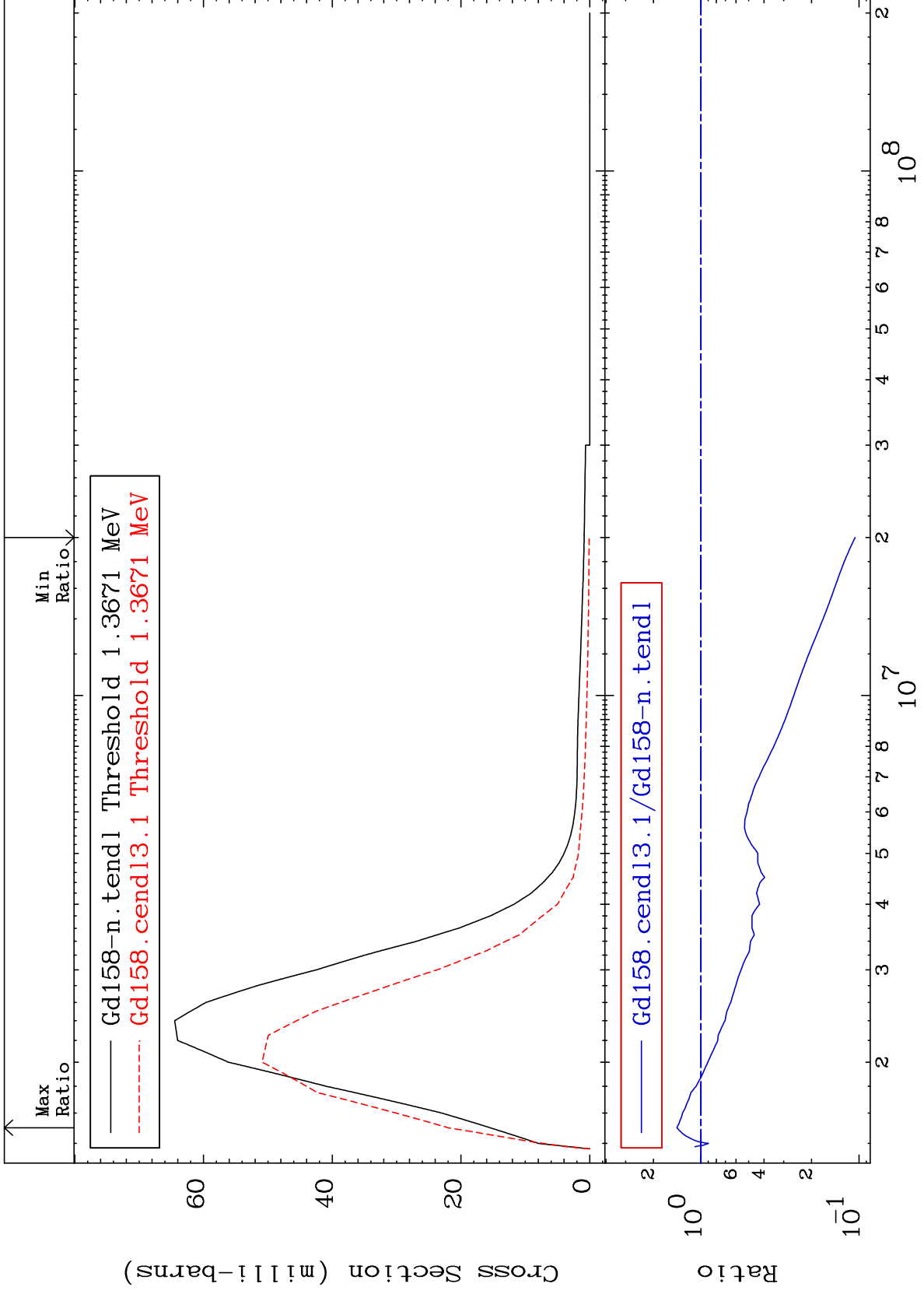
64-Gd-158
-99.44 To -6.396%



MAT 6443

1.358 MeV (n,n') Level
Cross Section

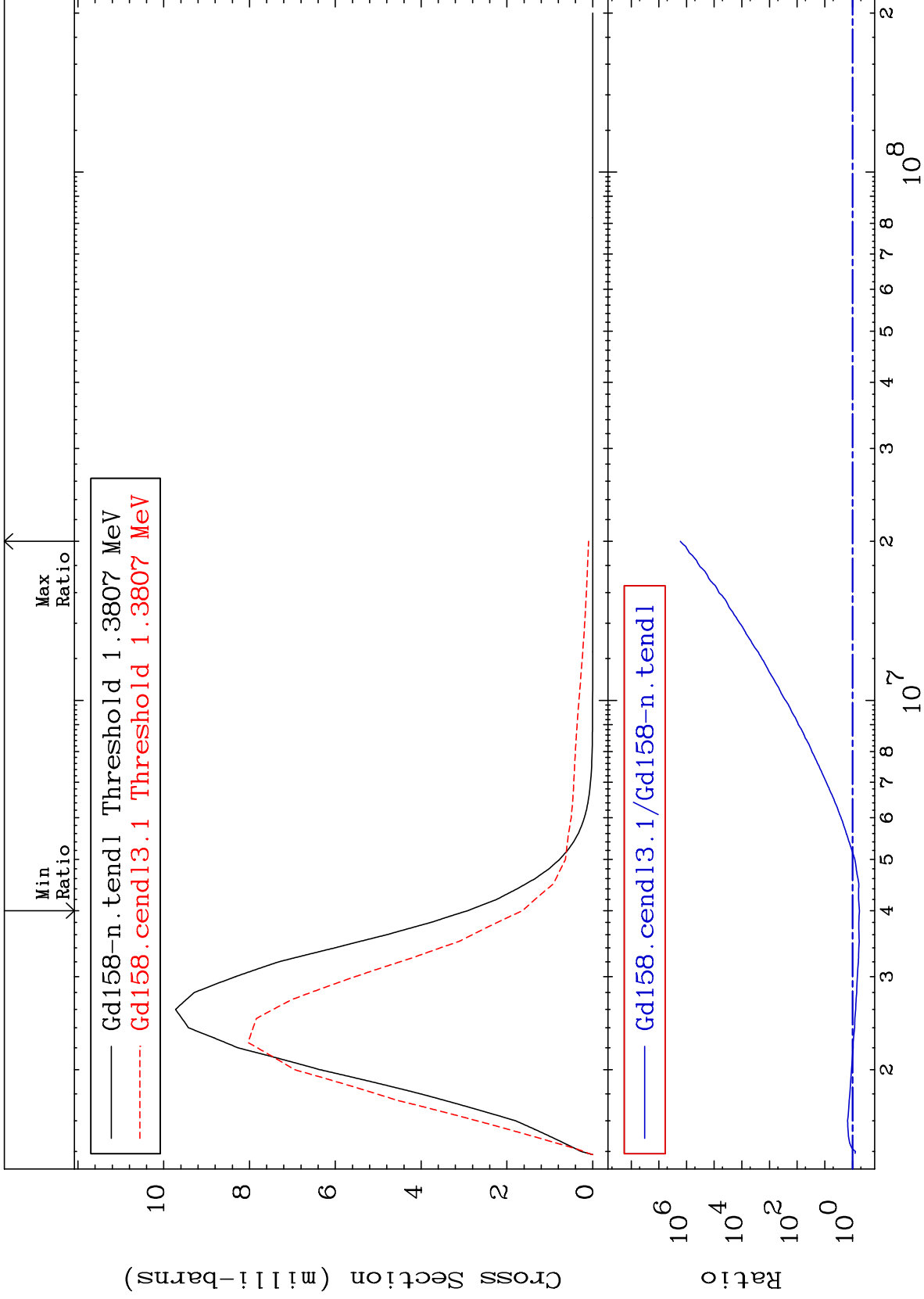
64-Gd-158
-89.40 To 42.08 %



MAT 6443

1.372 MeV (n,n') Level
Cross Section

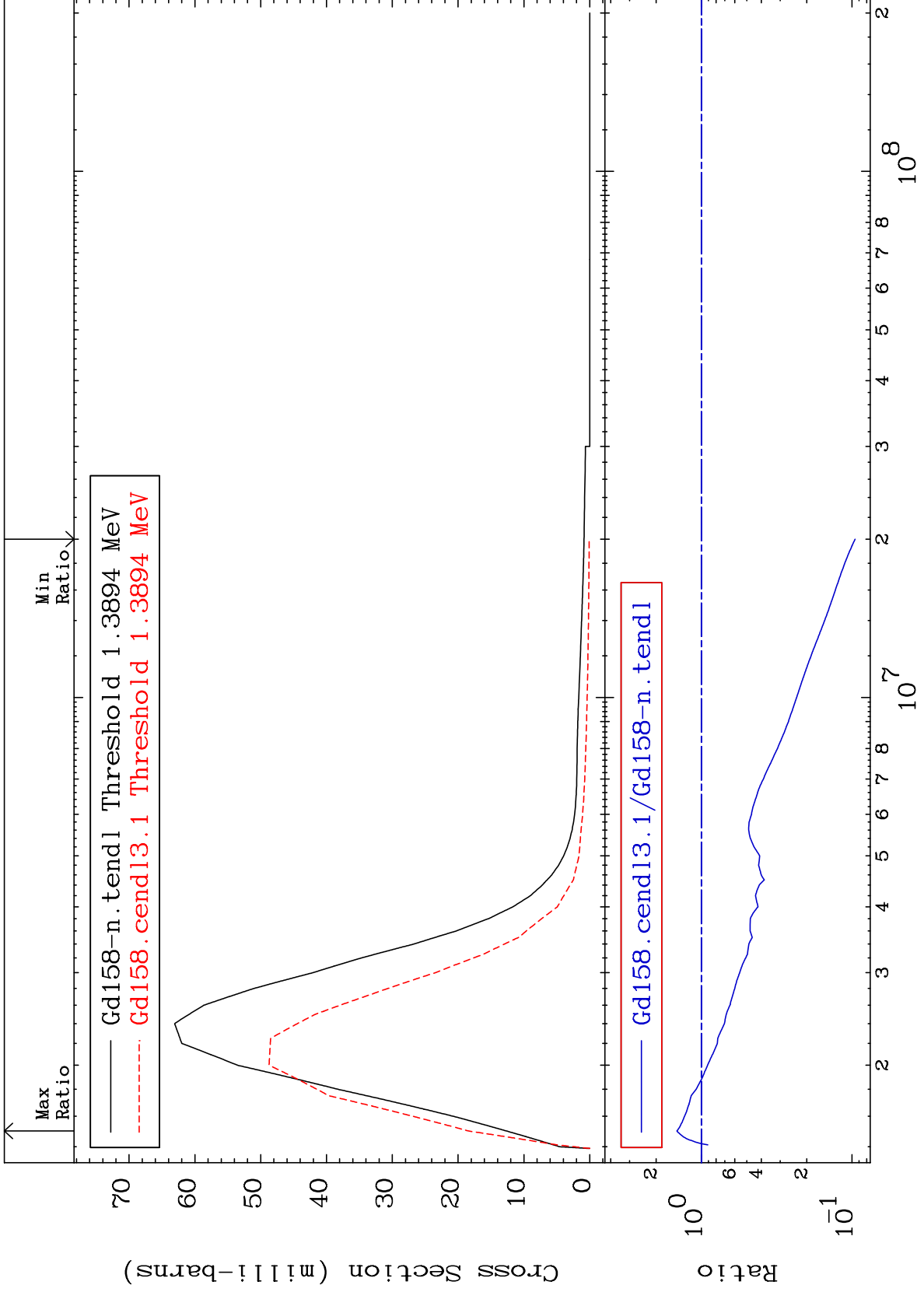
64-Gd-158
-43.95 To 9999. %



MAT 6443

1.381 MeV (n,n') Level
Cross Section

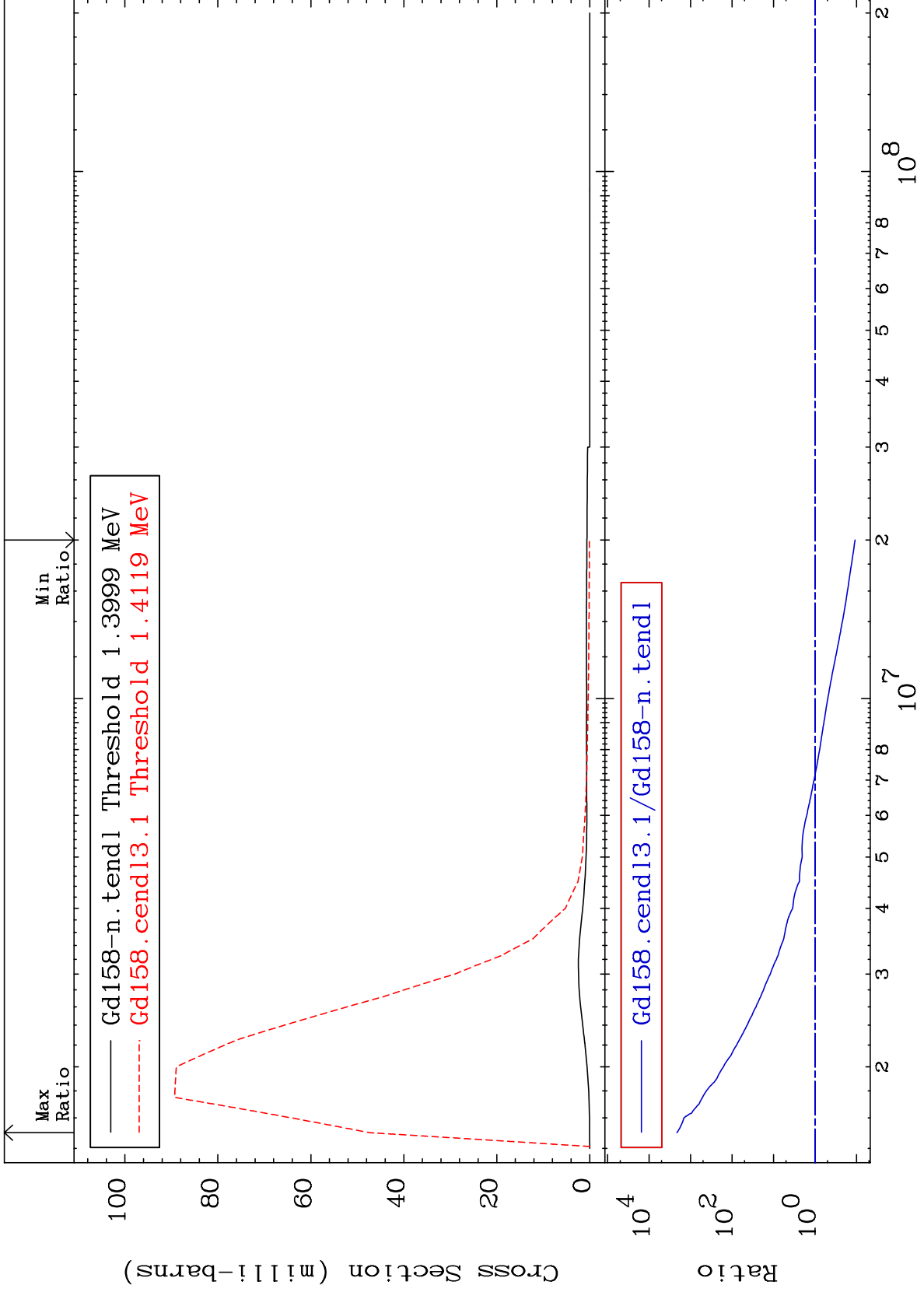
64-Gd-158
-90.45 To 45.41 %



MAT 6443

1.391 MeV (n,n') Level
Cross Section

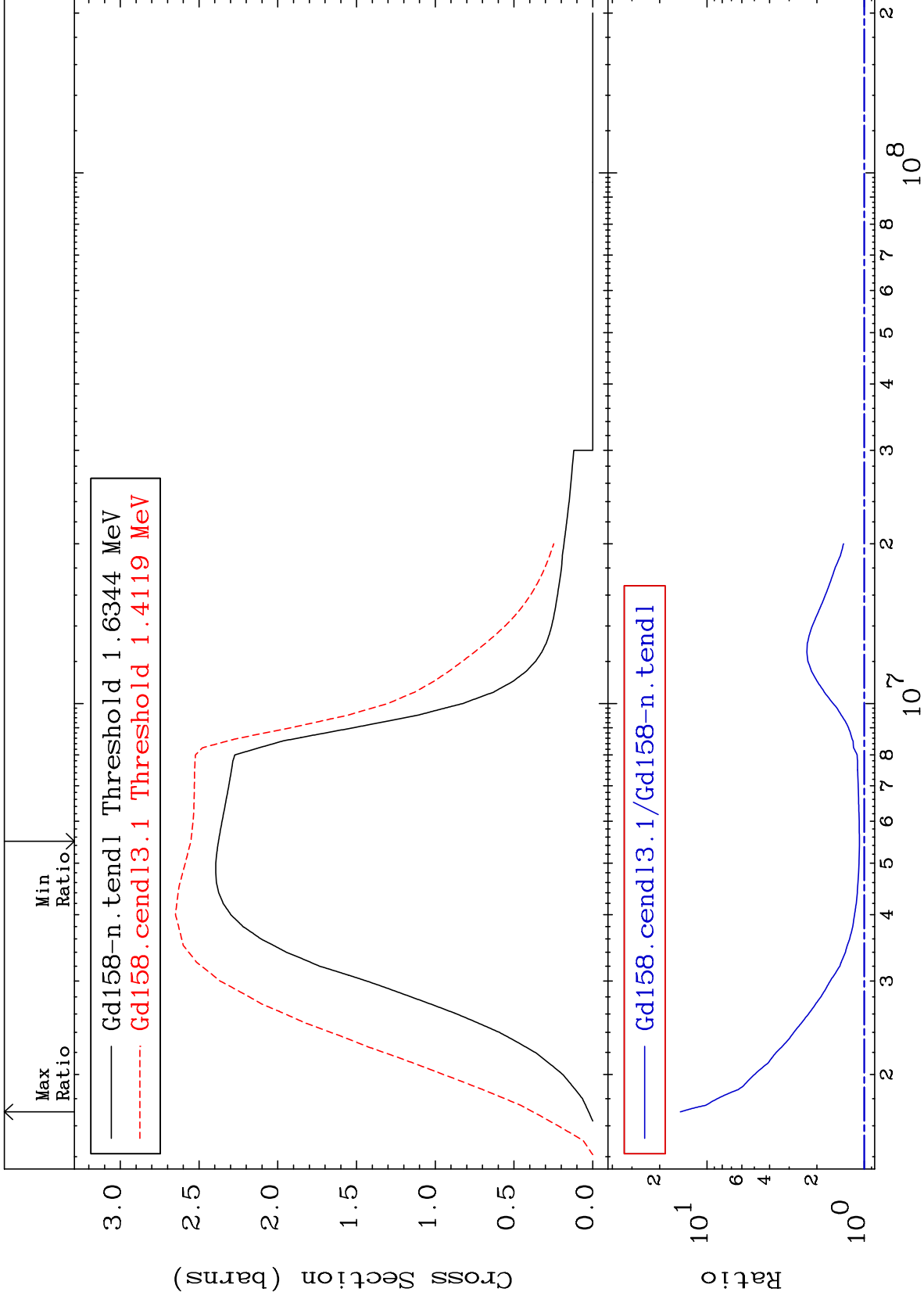
64-Gd-158
-89.16 To 9999. %



MAT 6443

(n, n') Continuum
Cross Section

64-Gd-158
7.377 To 1377. %



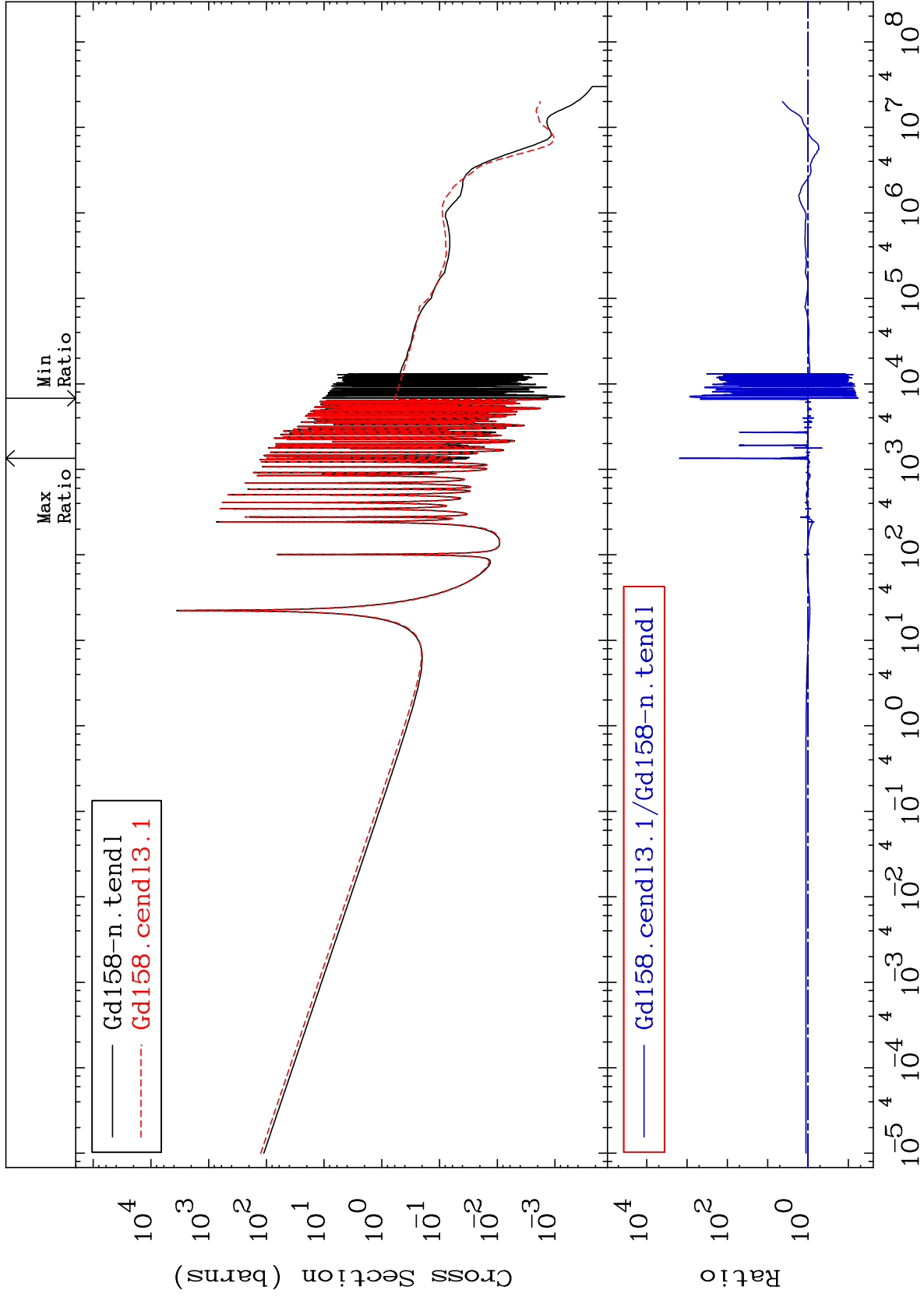
MAT 6443

64-Gd-158

-94.26 To 9999. %

(n, γ)

Cross Section



28

Incident Energy (eV)

64-Gd-158

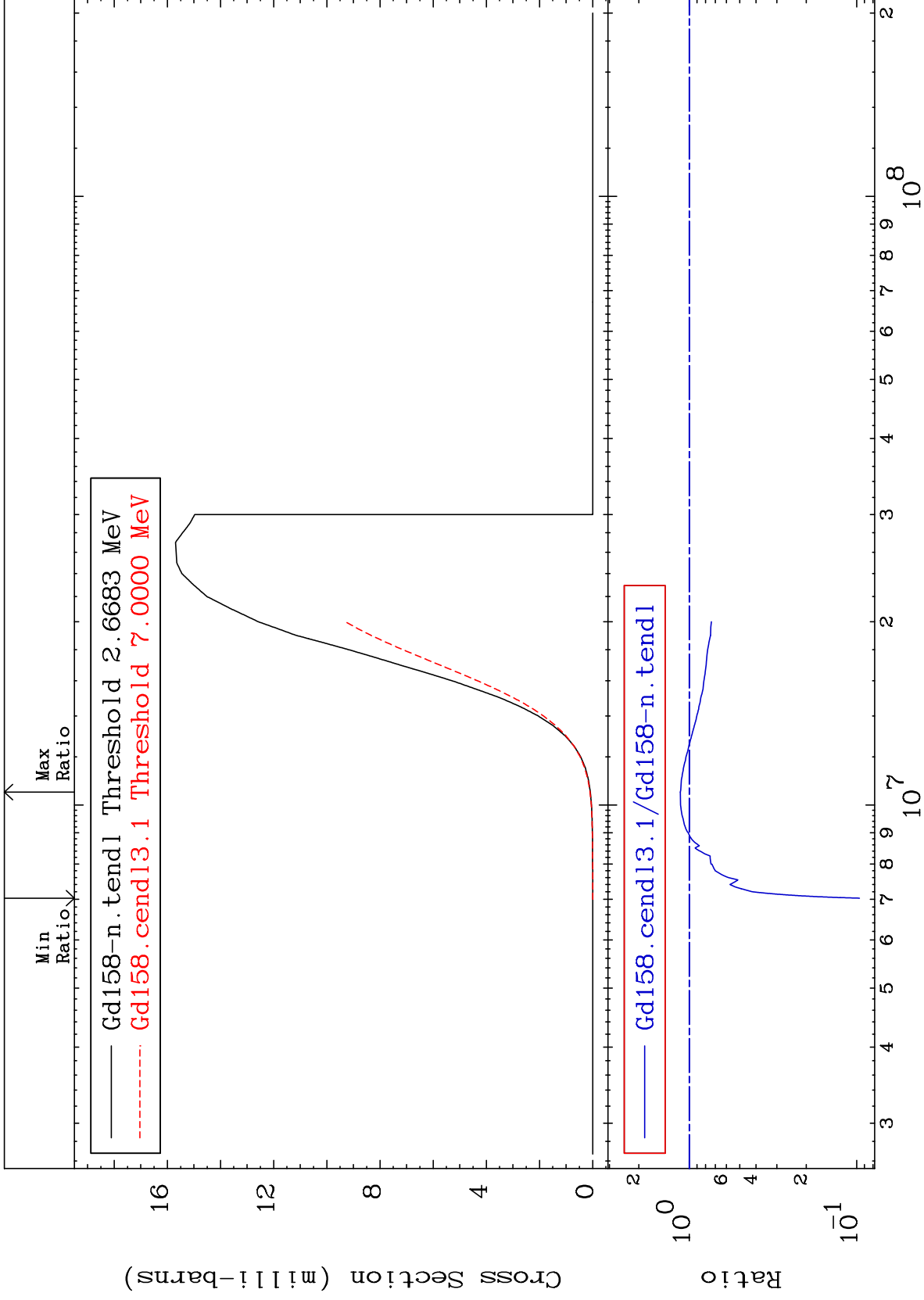
MAT 6443

(n,p)

64-Gd-158

Cross Section

-90.36 To 13.12 %



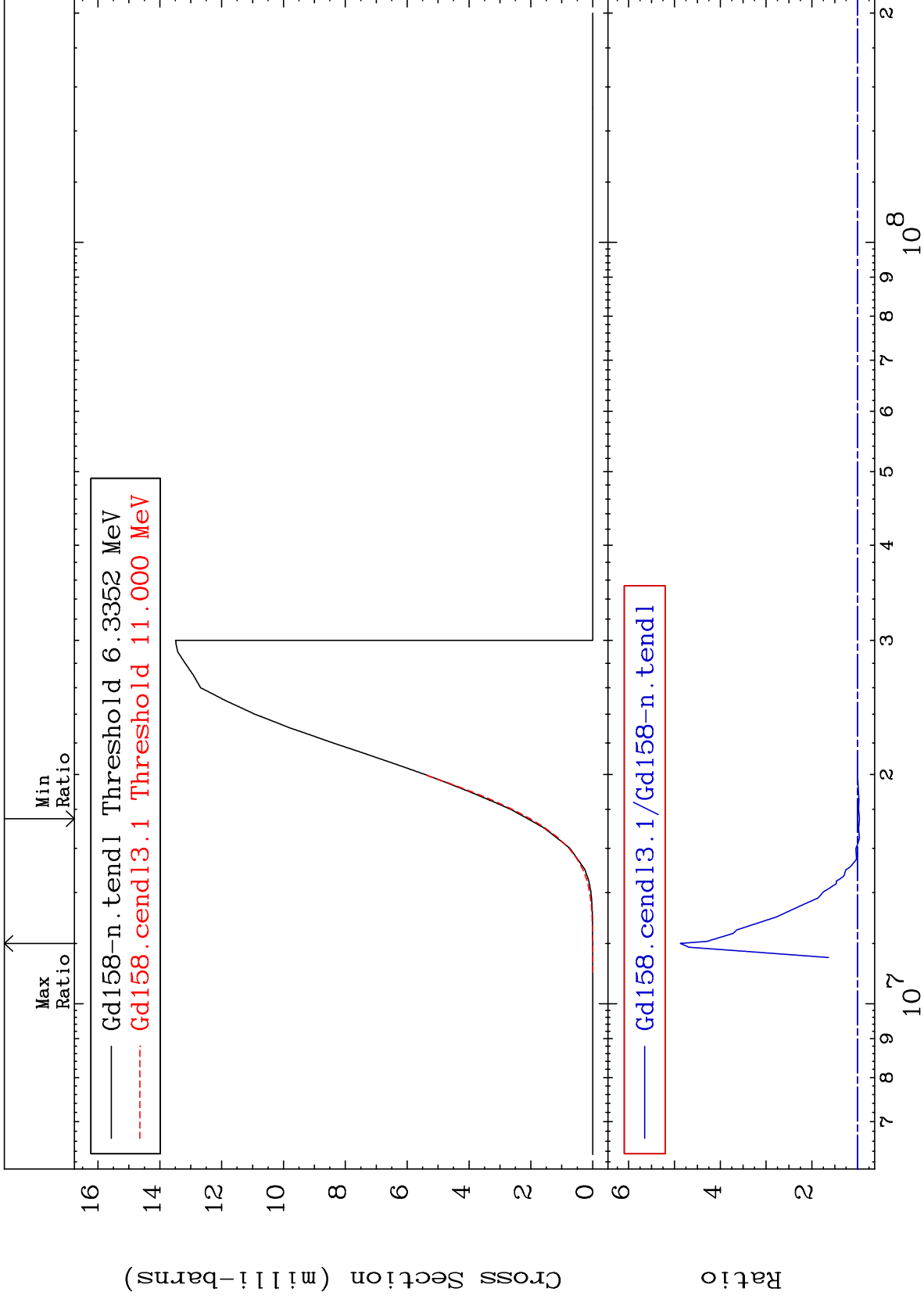
MAT 6443

(n, d)

64-Gd-158

Cross Section

-3.932 To 387.2 %



30

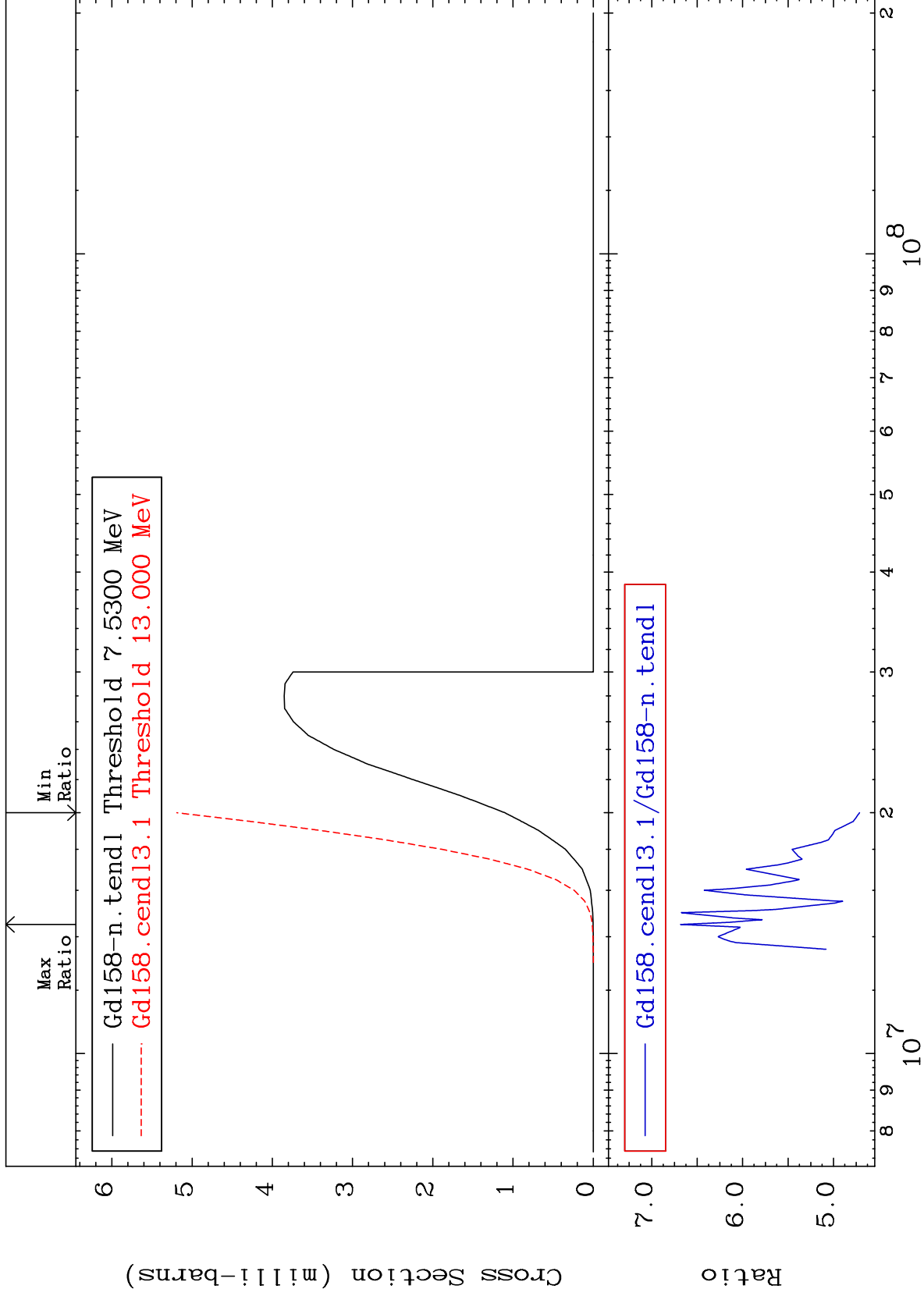
Incident Energy (eV)

64-Gd-158

MAT 6443

(n, t)
Cross Section

64-Gd-158
371.3 To 568.1 %



31

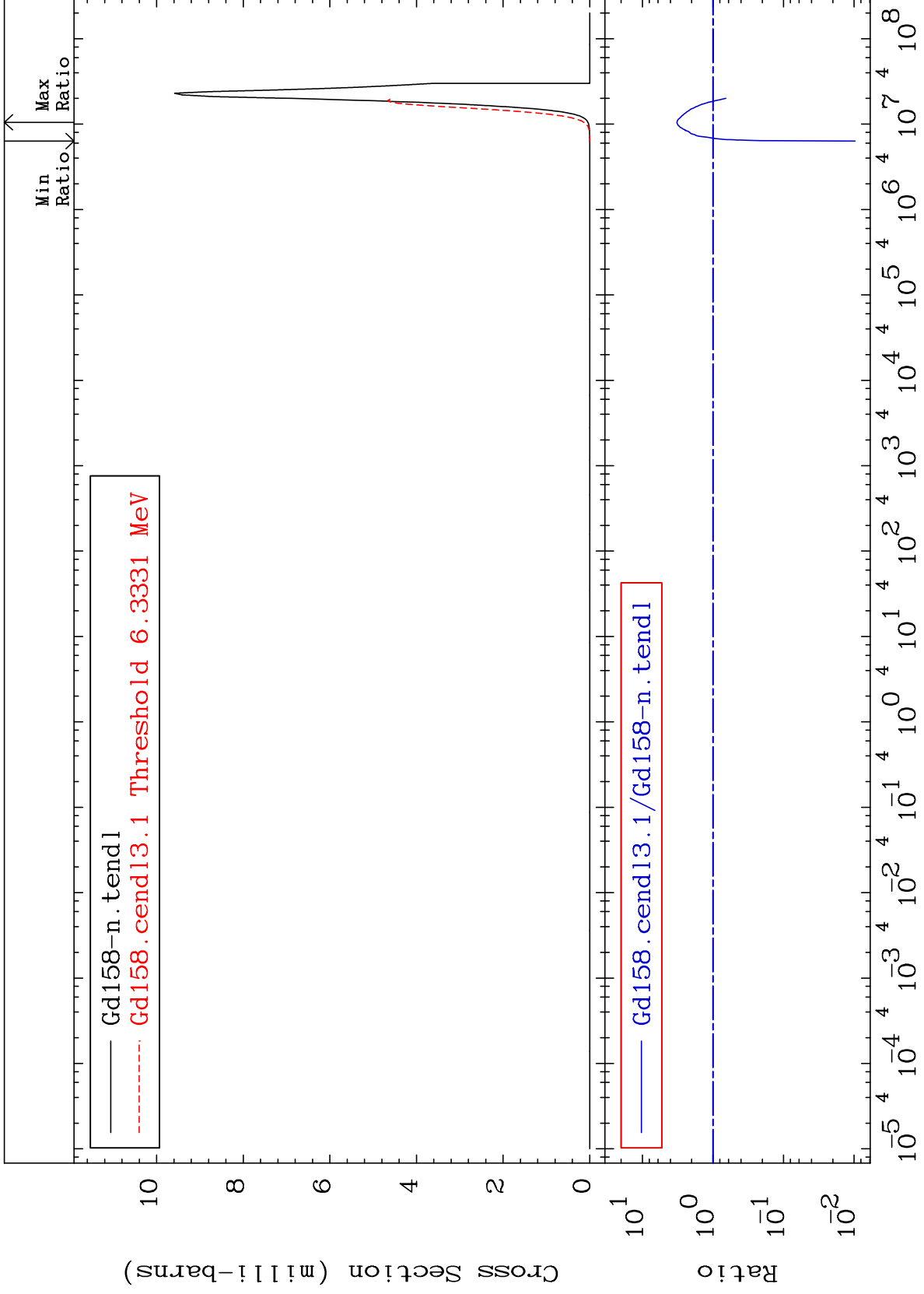
Incident Energy (eV)

64-Gd-158

MAT 6443

(n, α)
Cross Section

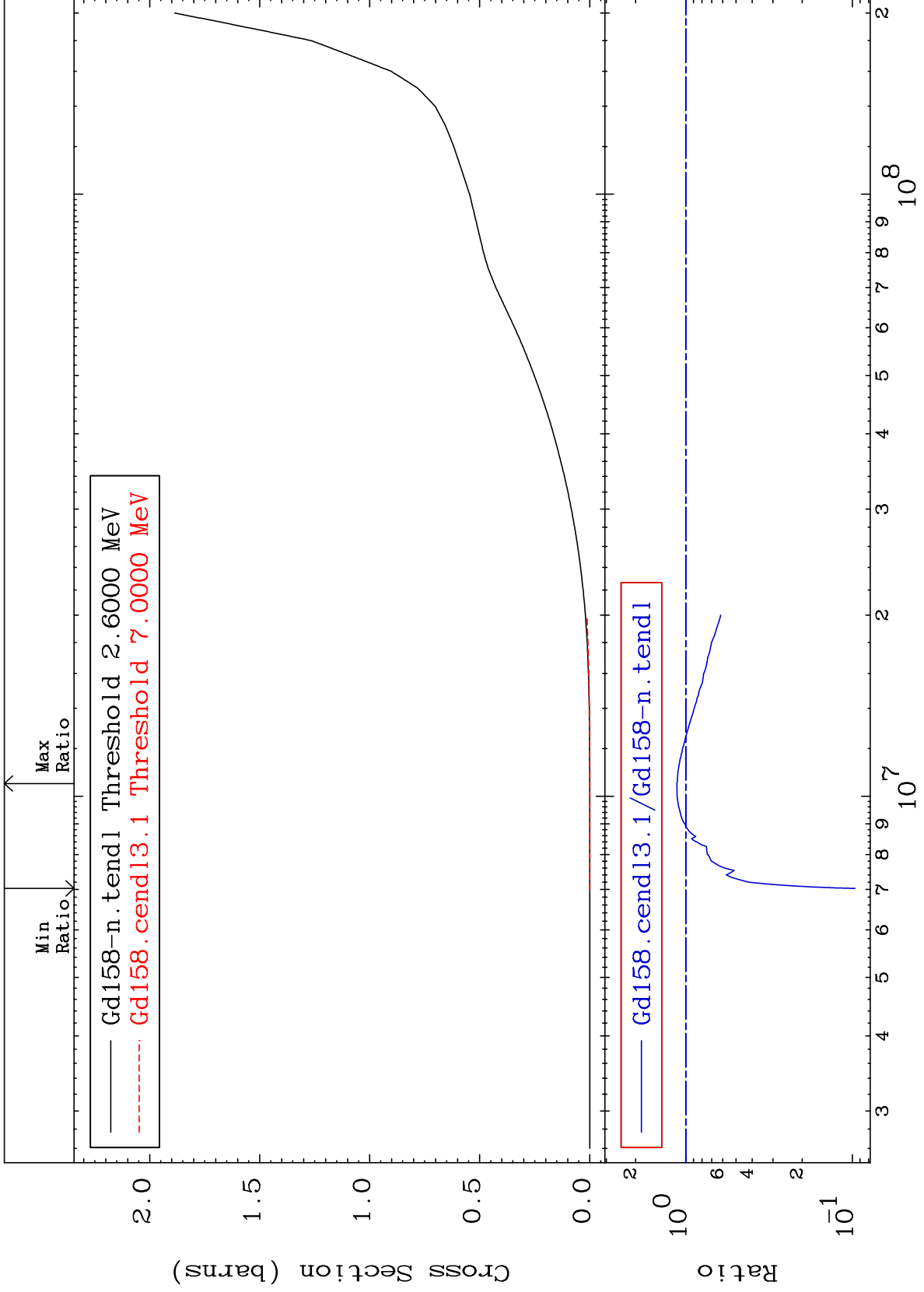
64-Gd-158
-99.03 To 223.8 %



MAT 6443

Hydrogen Production
Cross Section

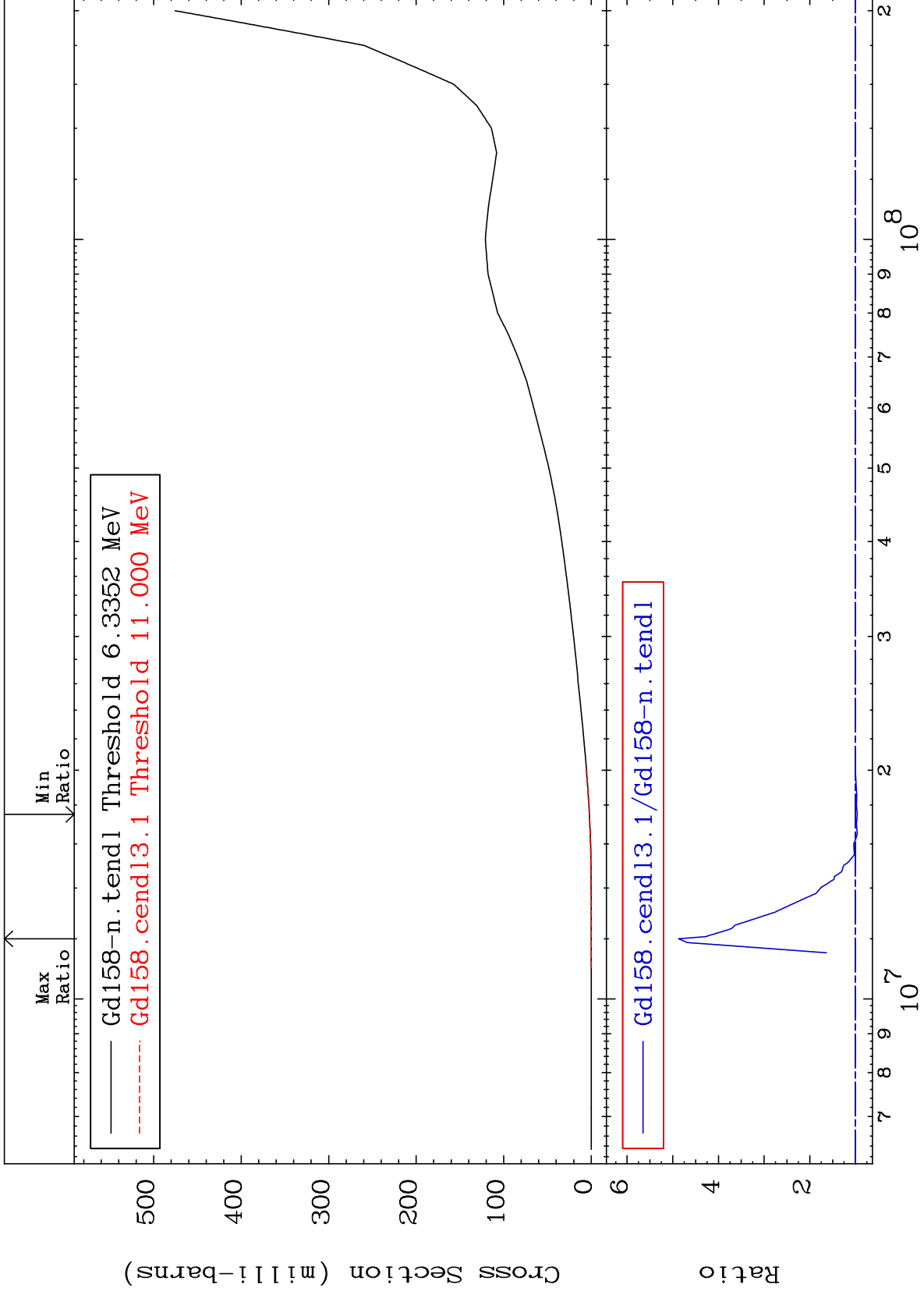
64-Gd-158
-90.36 To 13.12 %



MAT 6443

Deuterium Production
Cross Section

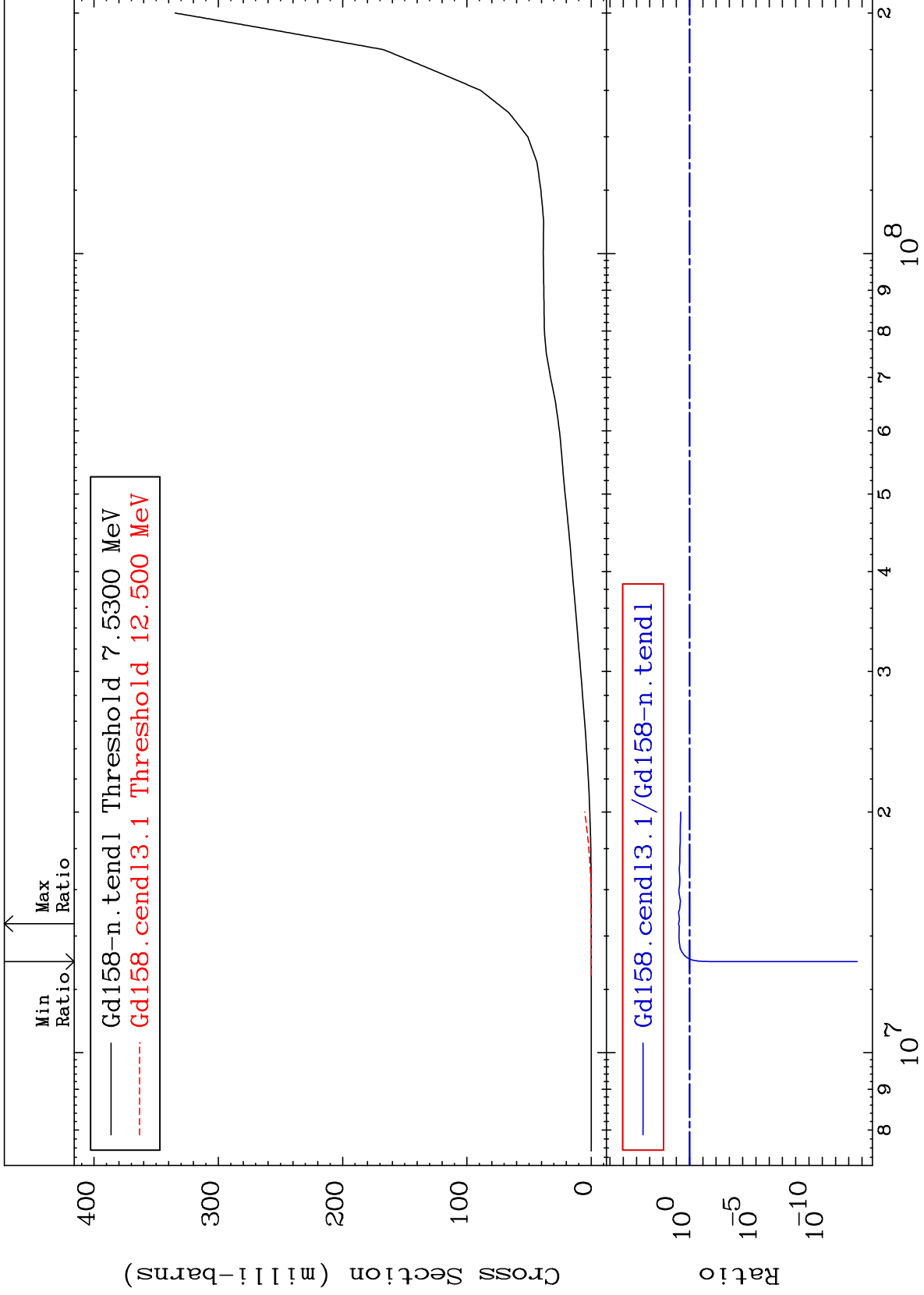
64-Gd-158
-3.932 To 387.2 %



MAT 6443

Tritium Production
Cross Section

64-Gd-158
-100.0 To 568.1 %



35

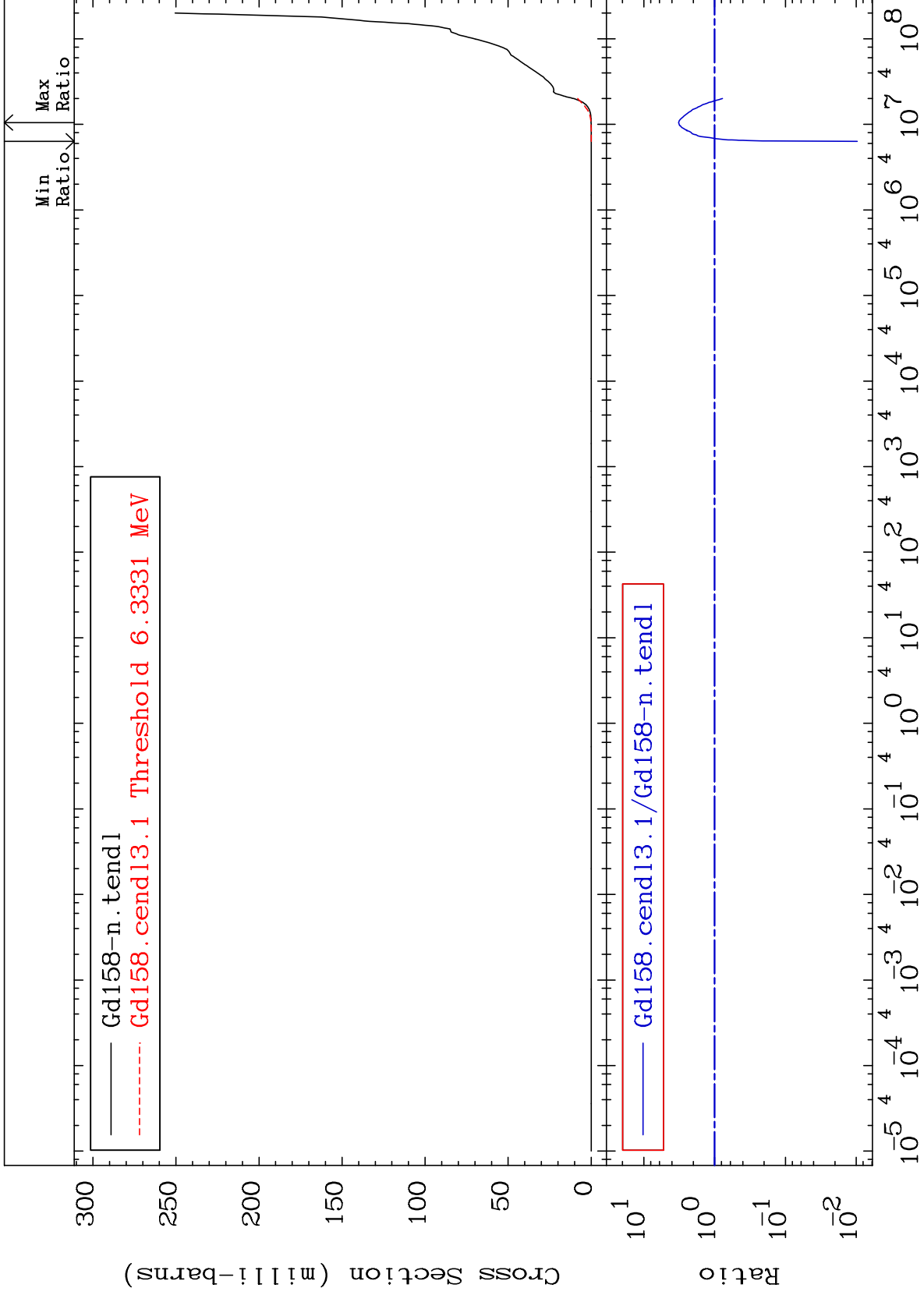
Incident Energy (eV)

64-Gd-158

MAT 6443

He-4 Production
Cross Section

64-Gd-158
-99.03 To 221.8 %



36

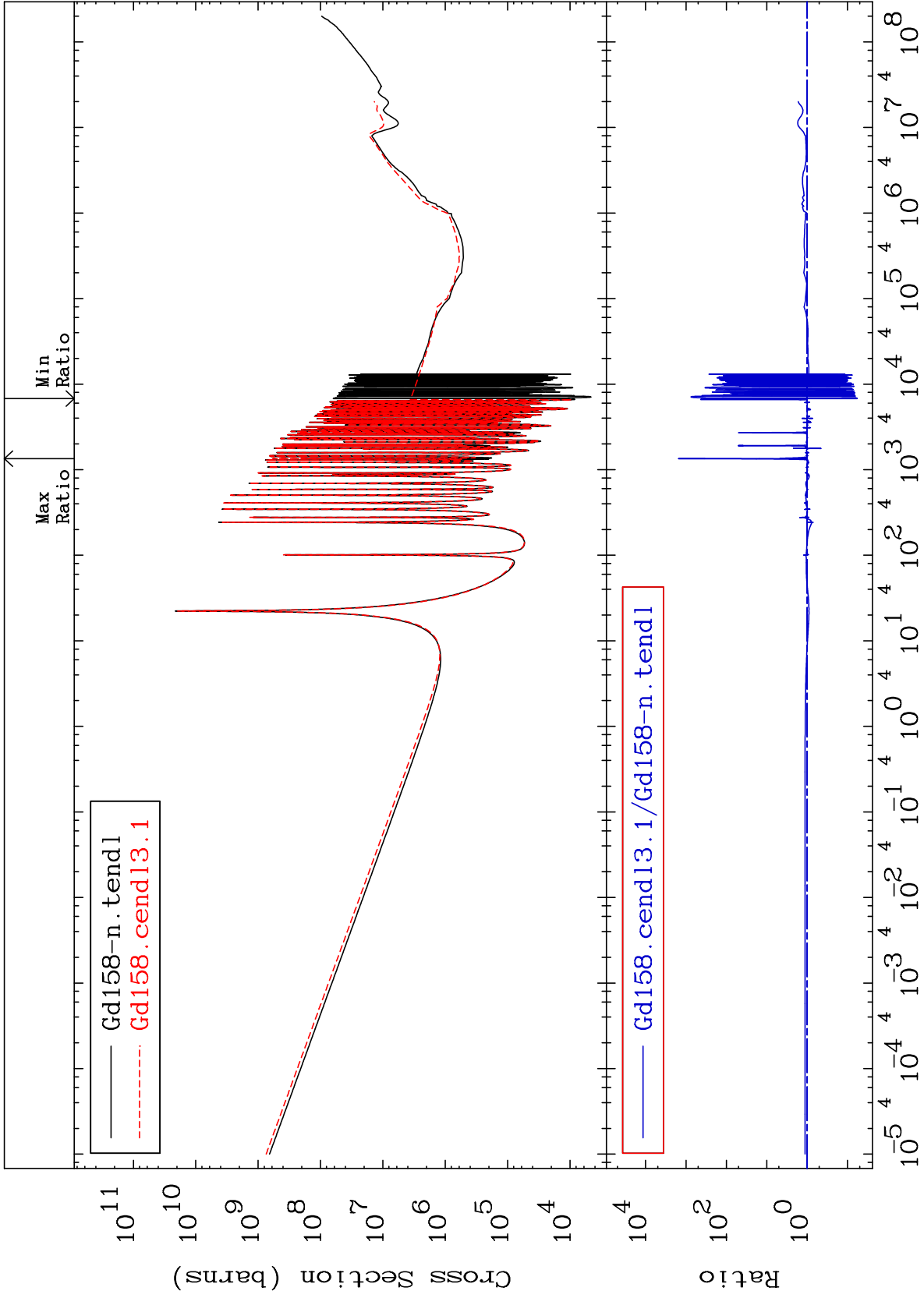
Incident Energy (eV)

64-Gd-158

MAT 6443

Kerma total (eV-barns)
Cross Section

64-Gd-158
-94.26 To 9999. %



37

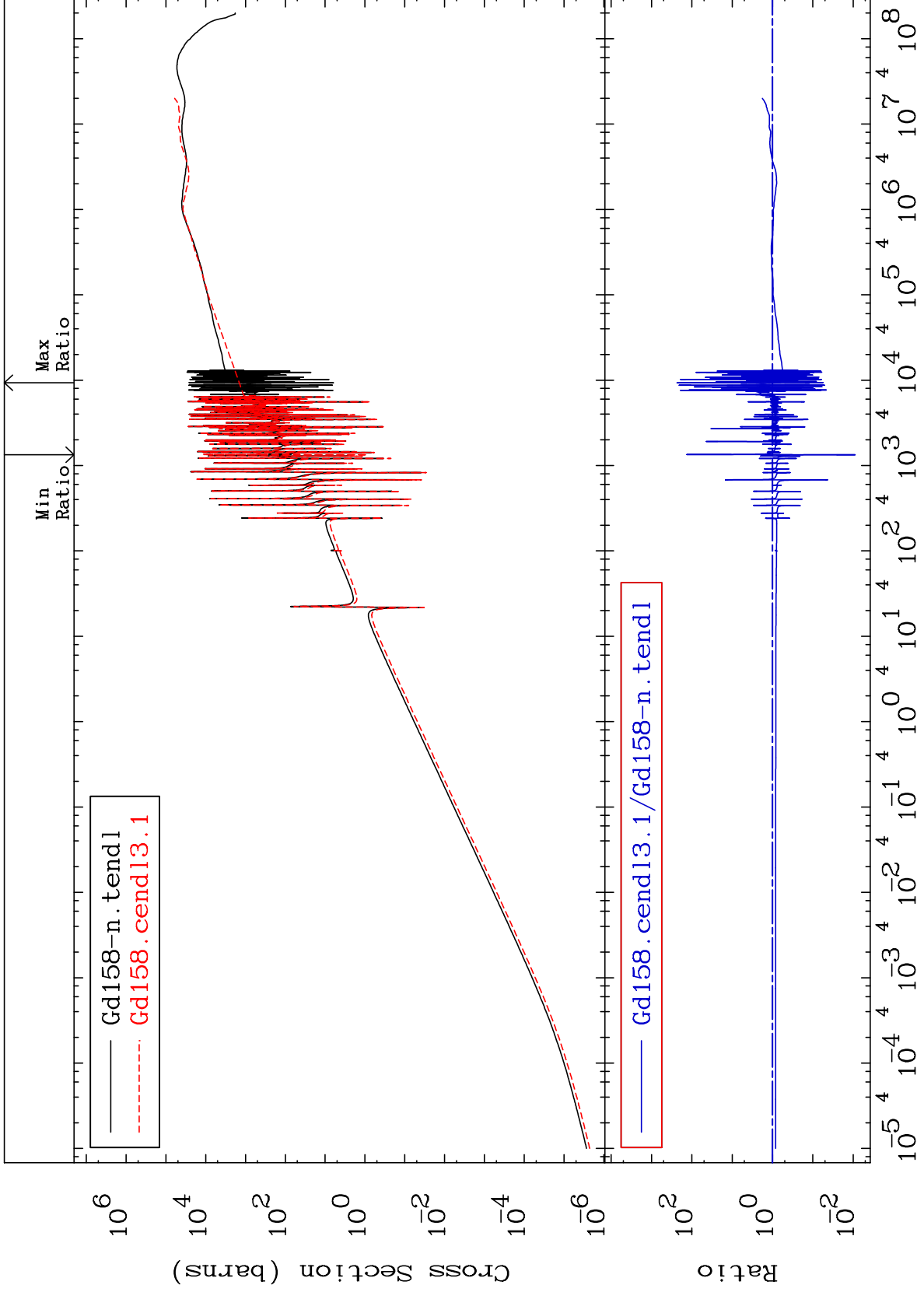
Incident Energy (eV)

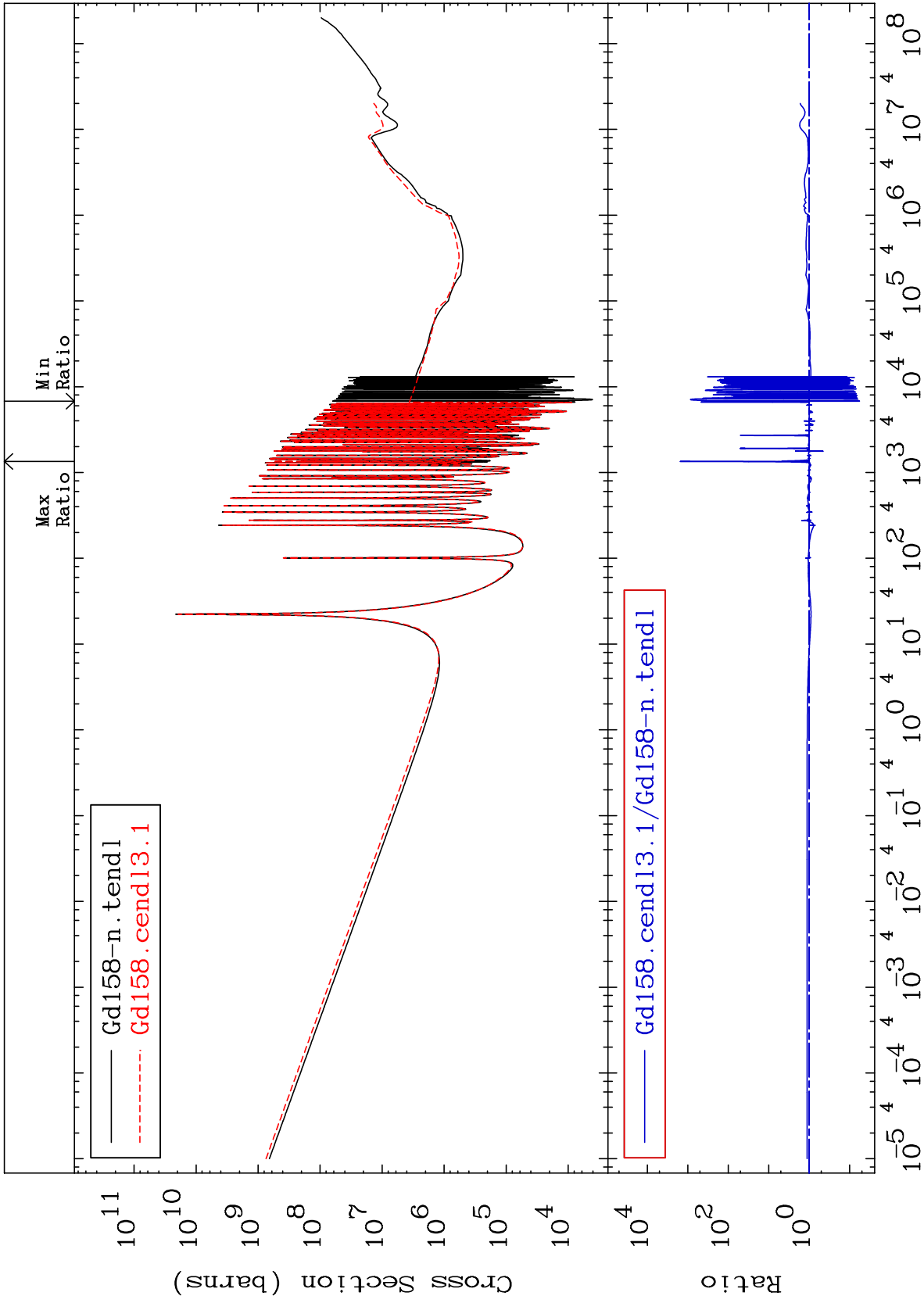
64-Gd-158

MAT 6443

Kerma elastic
Cross Section

64-Gd-158
-99.10 To 9999. %

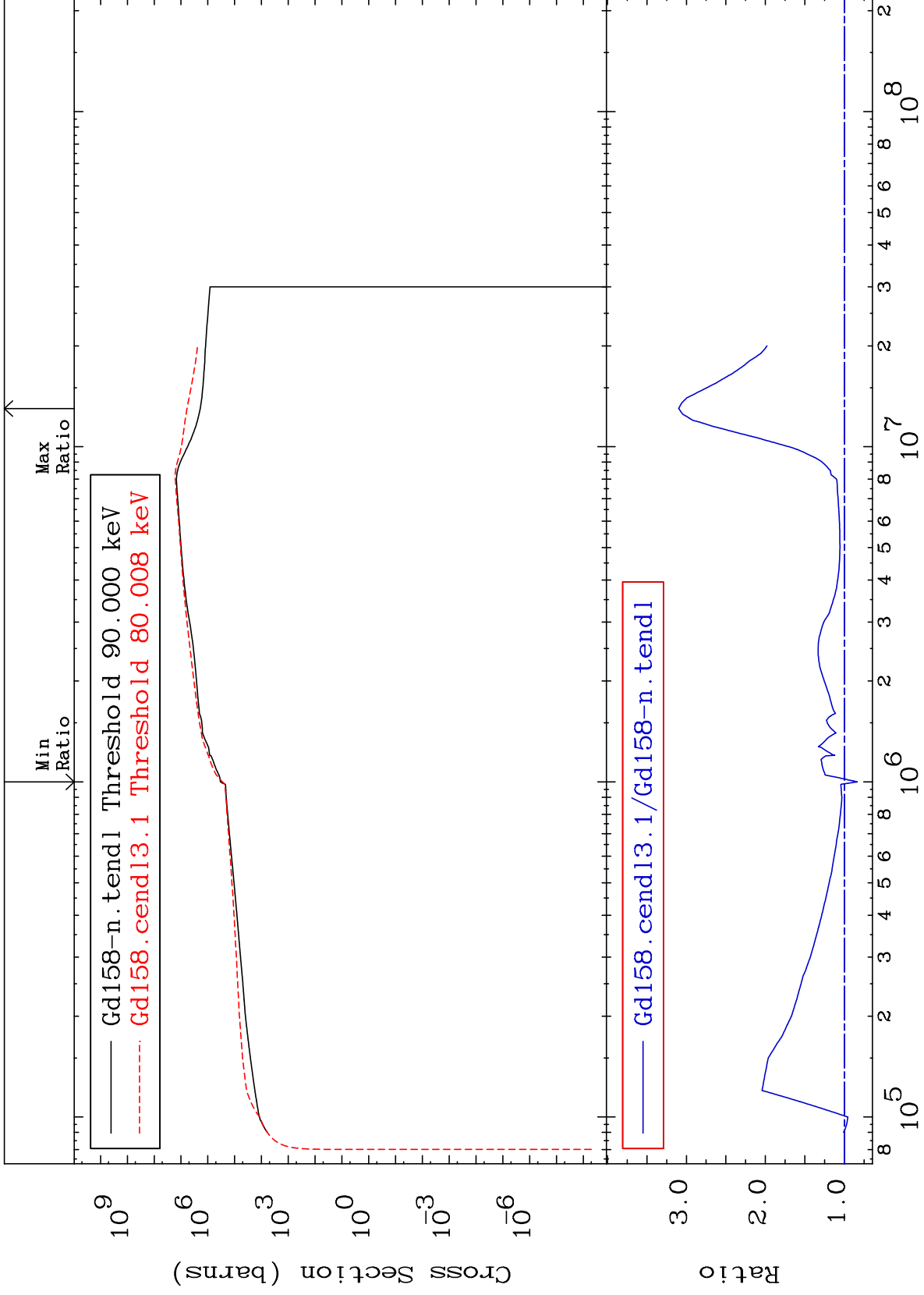




MAT 6443

Kerma inelastic (mt51-91)
Cross Section

64-Gd-158
-16.41 To 209.8 %



40

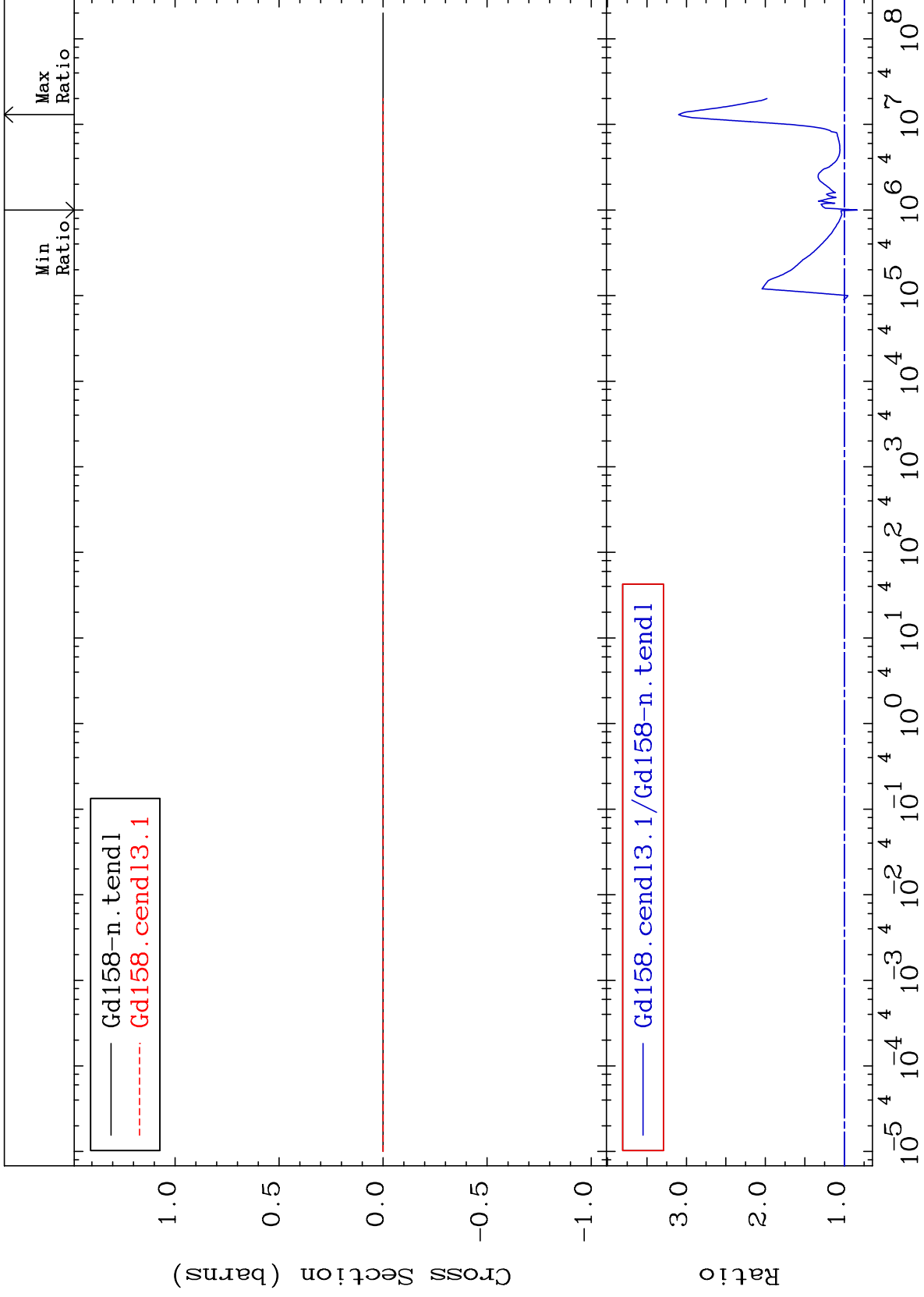
Incident Energy (eV)

64-Gd-158

MAT 6443

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

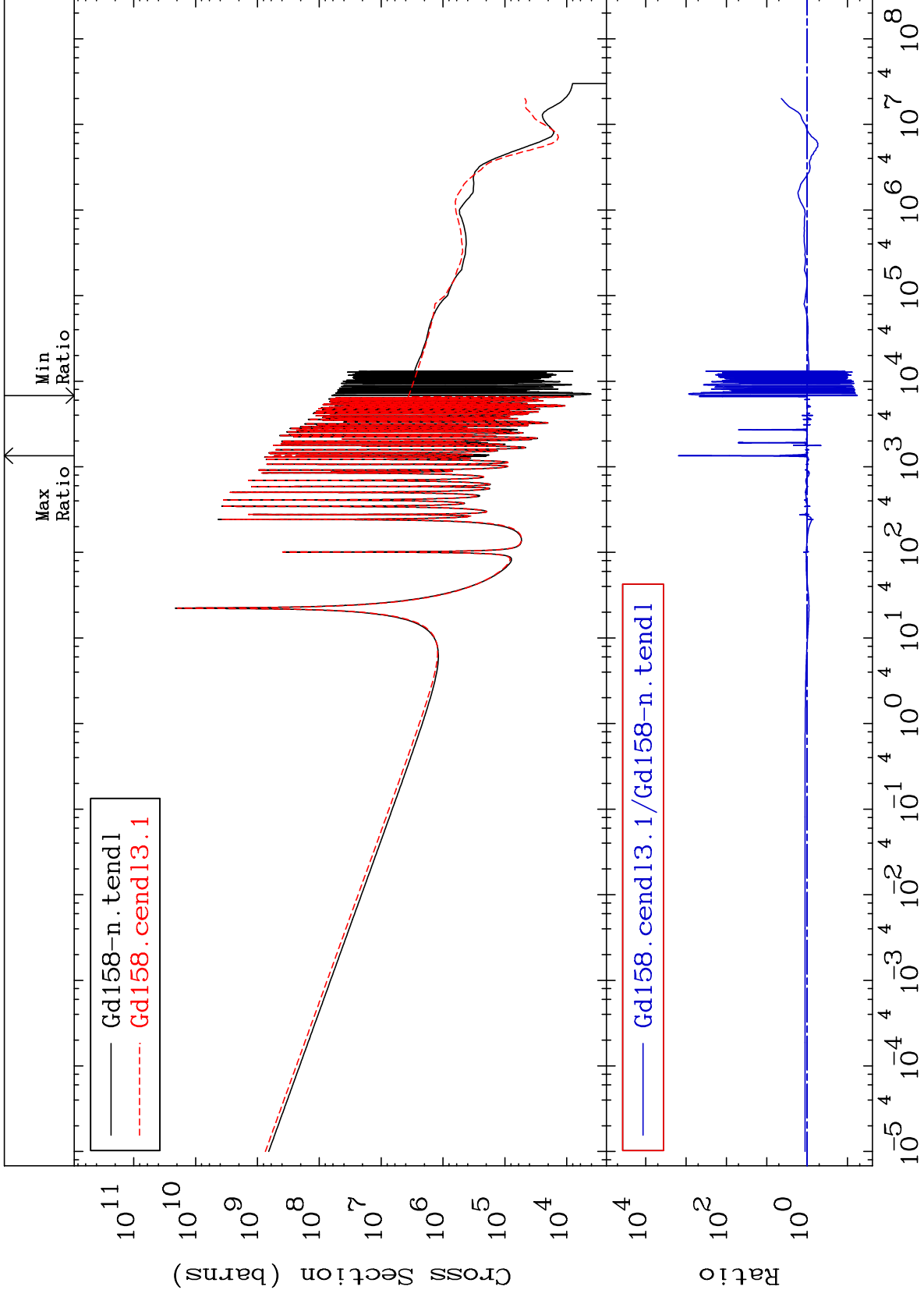
64-Gd-158
-16.41 To 209.8 %



MAT 6443

Kerma capture (mt102)
Cross Section

64-Gd-158
-94.26 To 9999. %



42

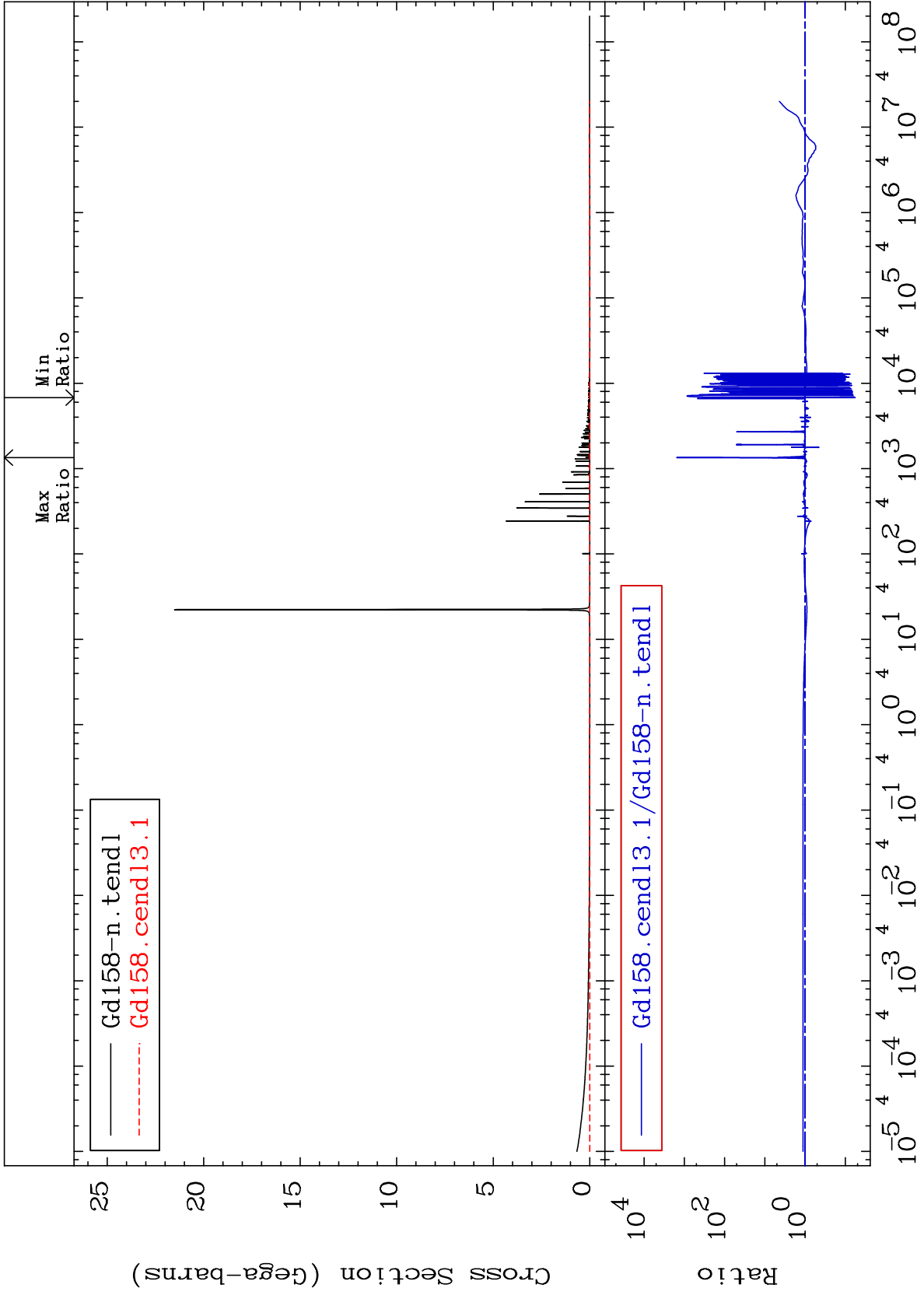
Incident Energy (eV)

64-Gd-158

MAT 6443

Total photon (eV-barns)
Cross Section

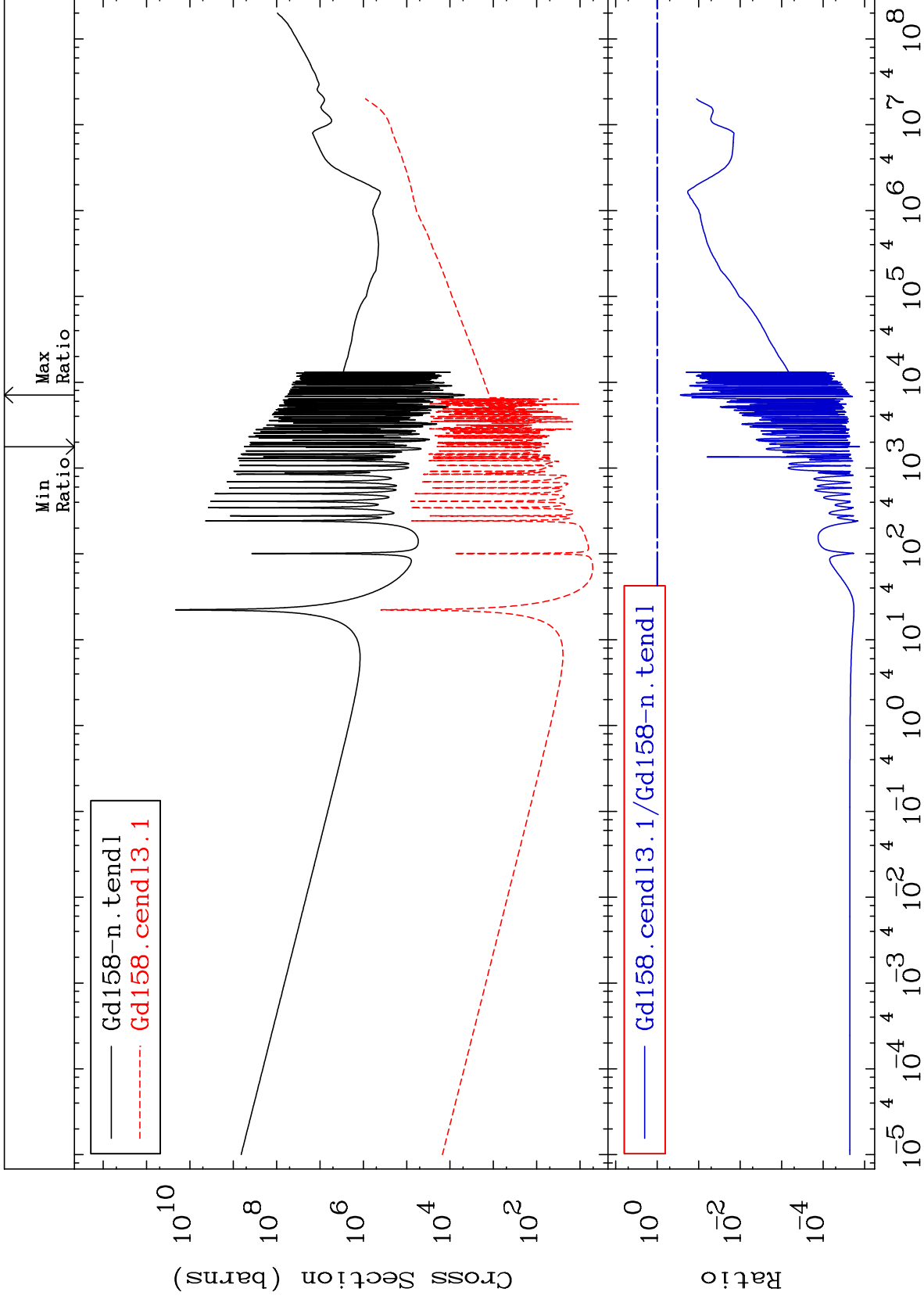
64-Gd-158
-94.26 To 9999. %



43

Incident Energy (eV)

64-Gd-158



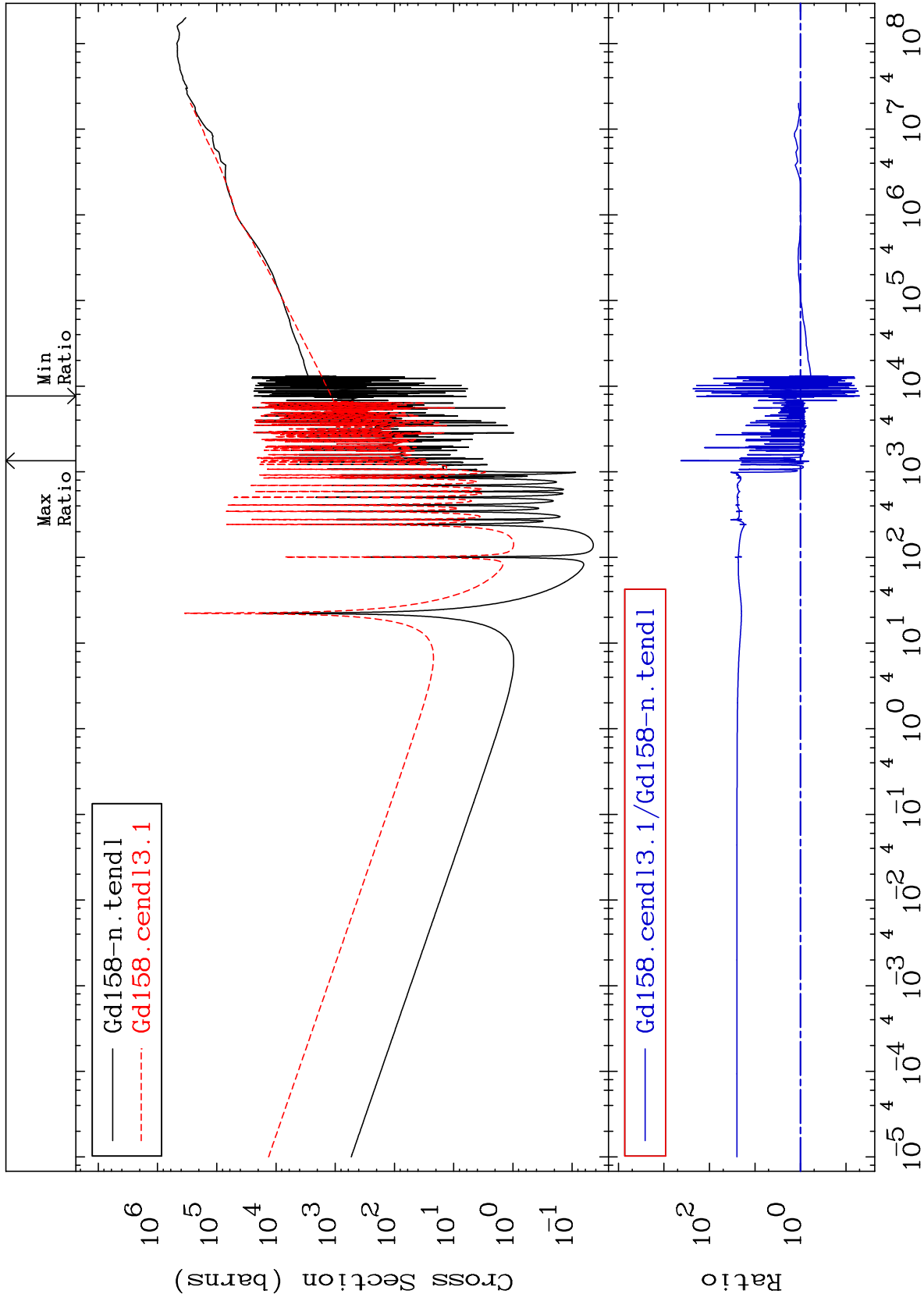
MAT 6443

Dpa total (eV-barns)

64-Gd-158

-94.98 To 9999. %

Cross Section



45

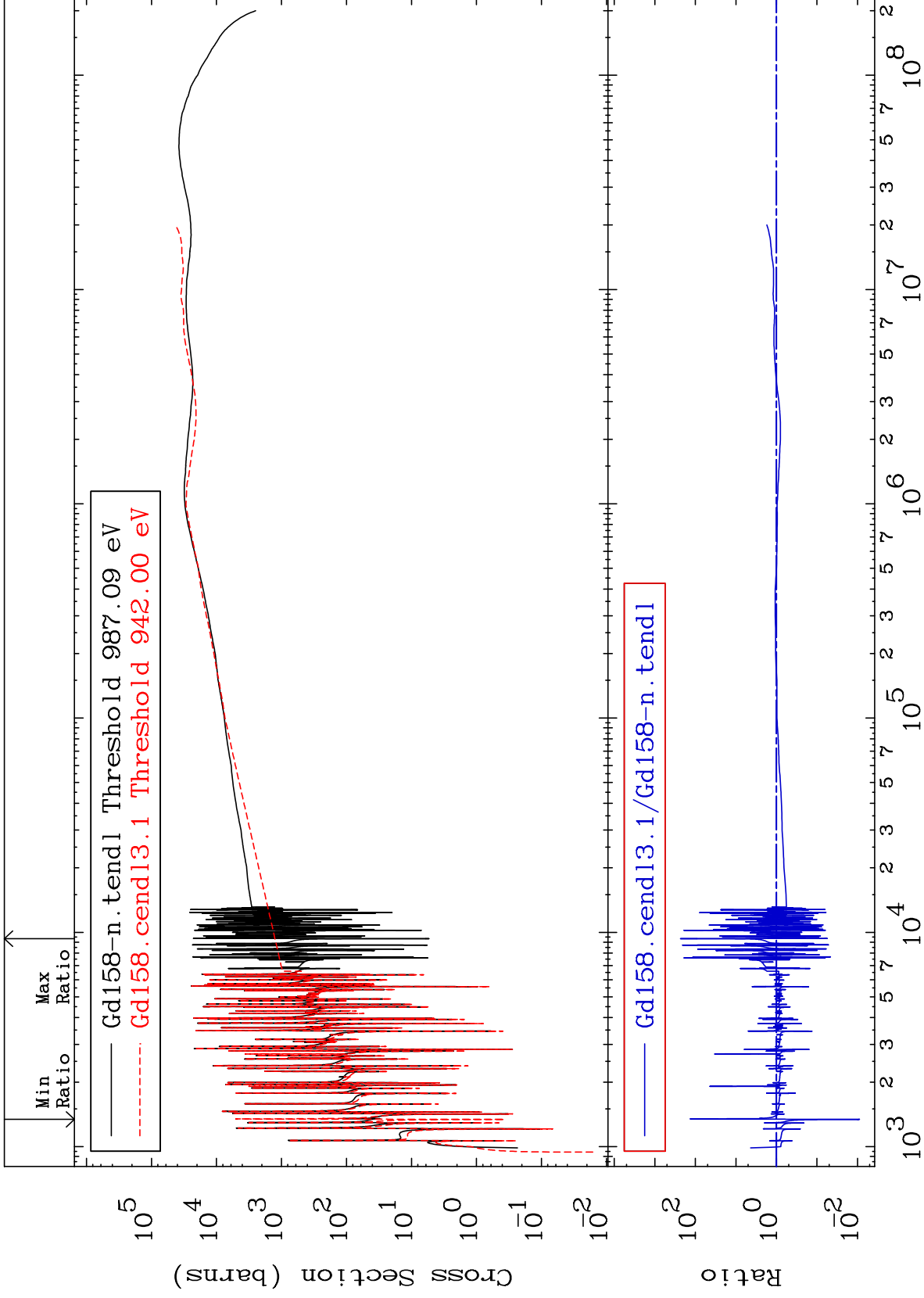
Incident Energy (eV)

64-Gd-158

MAT 6443

Dpa elastic (mt2)
Cross Section

64-Gd-158
-99.10 To 9999. %



46

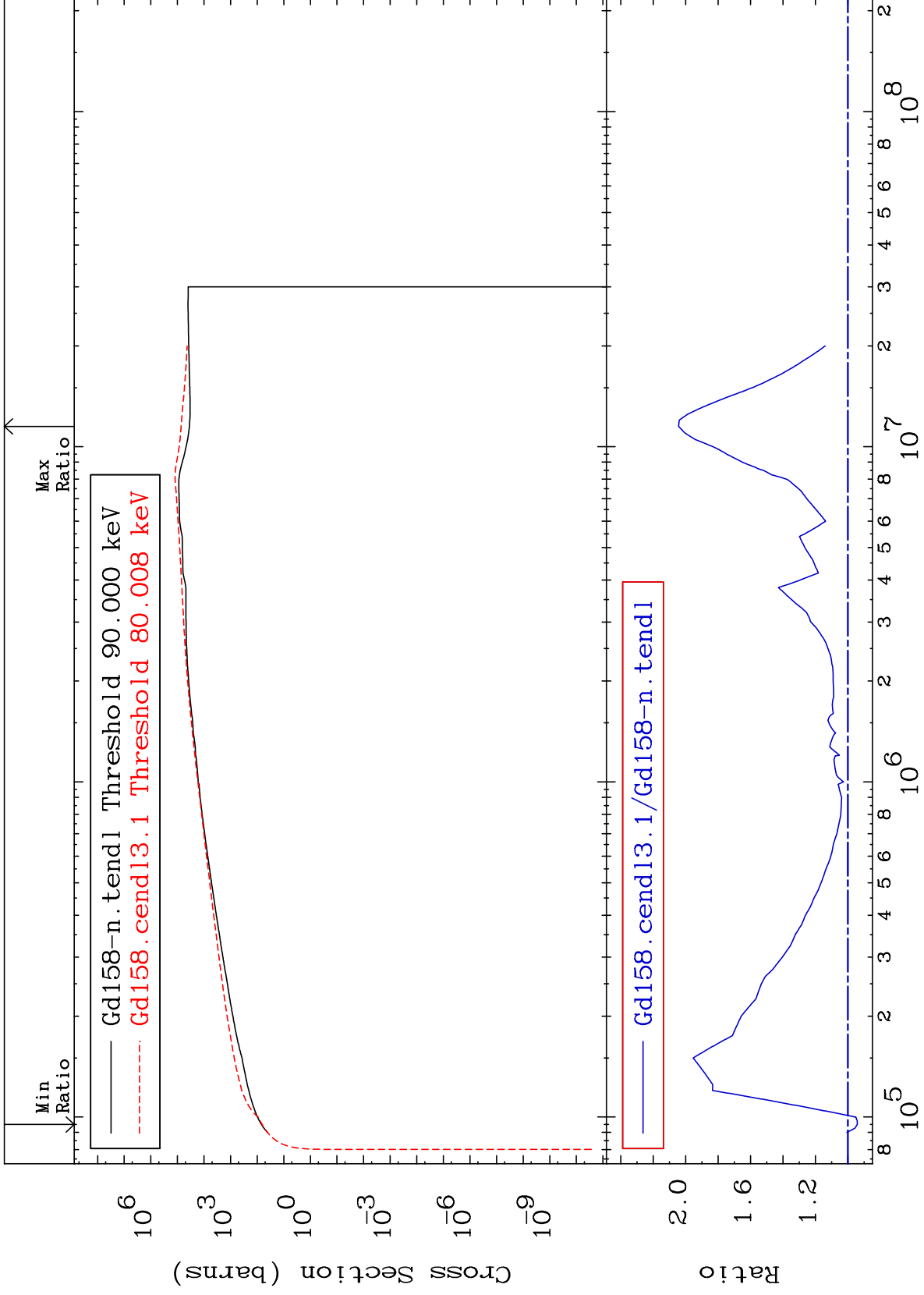
Incident Energy (eV)

64-Gd-158

MAT 6443

Dpa inelastic (mt51-91)
Cross Section

64-Gd-158
-5.746 To 104.4 %



47

Incident Energy (eV)

64-Gd-158

MAT 6443

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-158
23.51 To 9999. %

