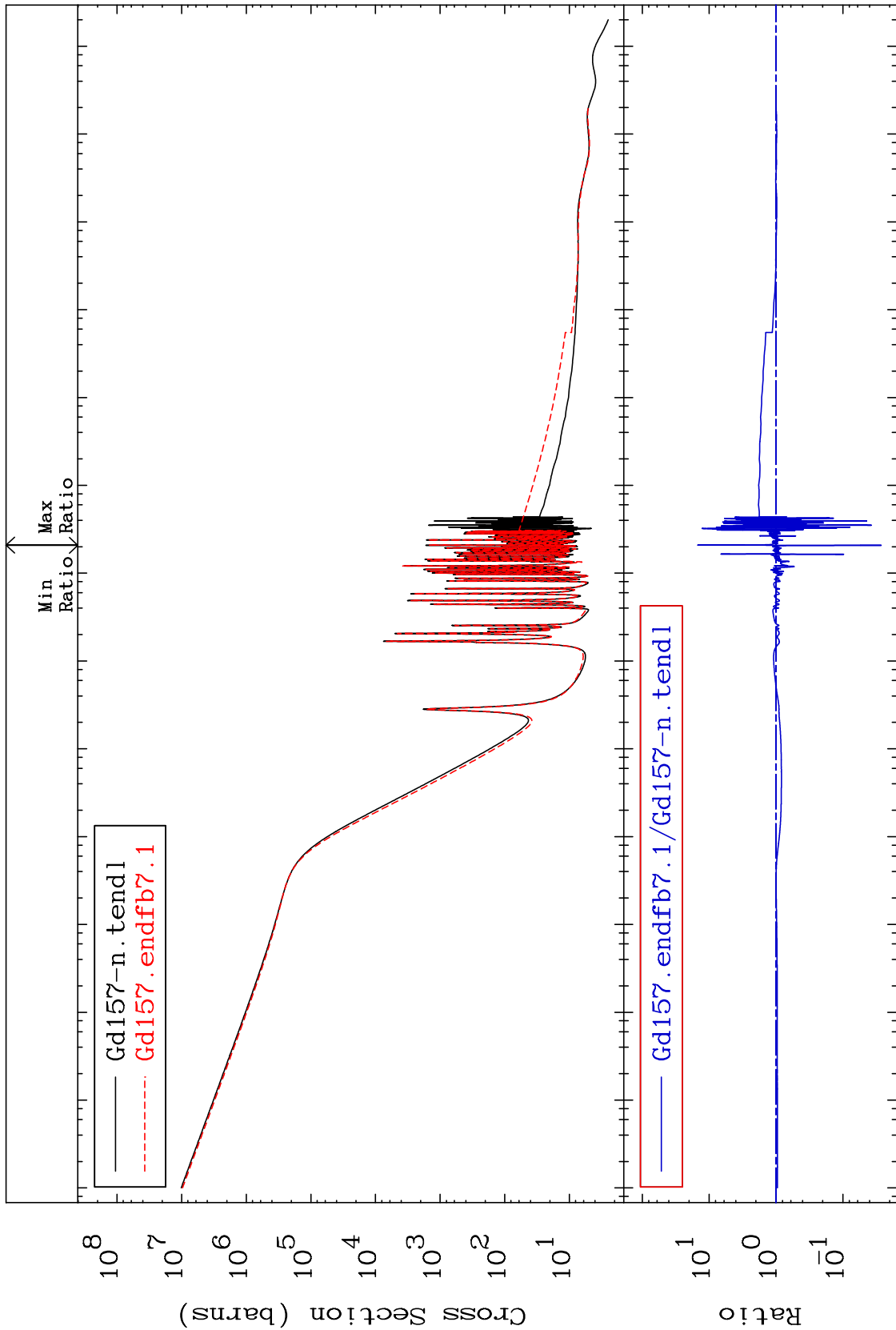


MAT 6440

64-Gd-157

-97.32 To 1374. %



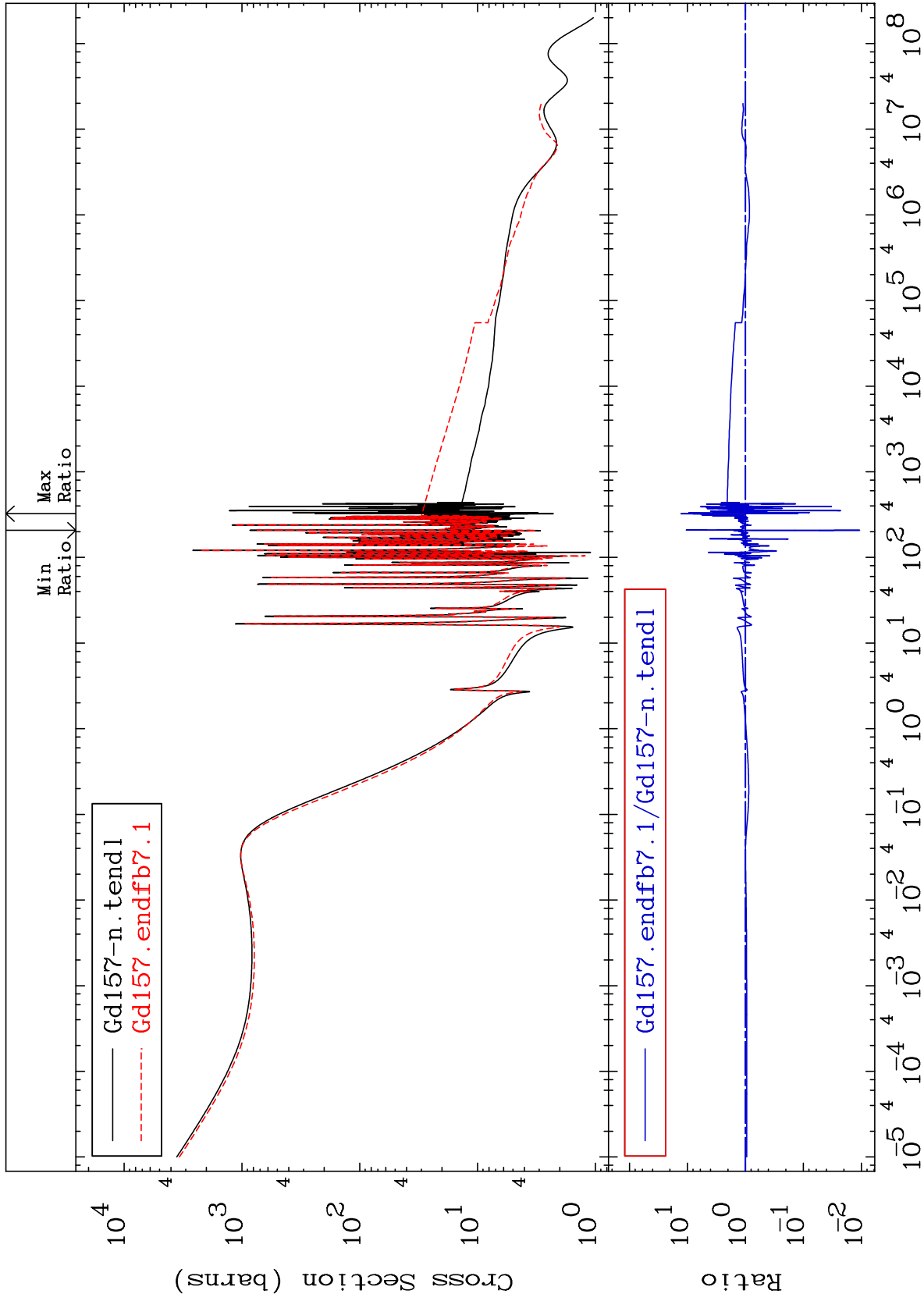
MAT 6440

Elastic

64-Gd-157

Cross Section

-98.93 To 1203. %



2

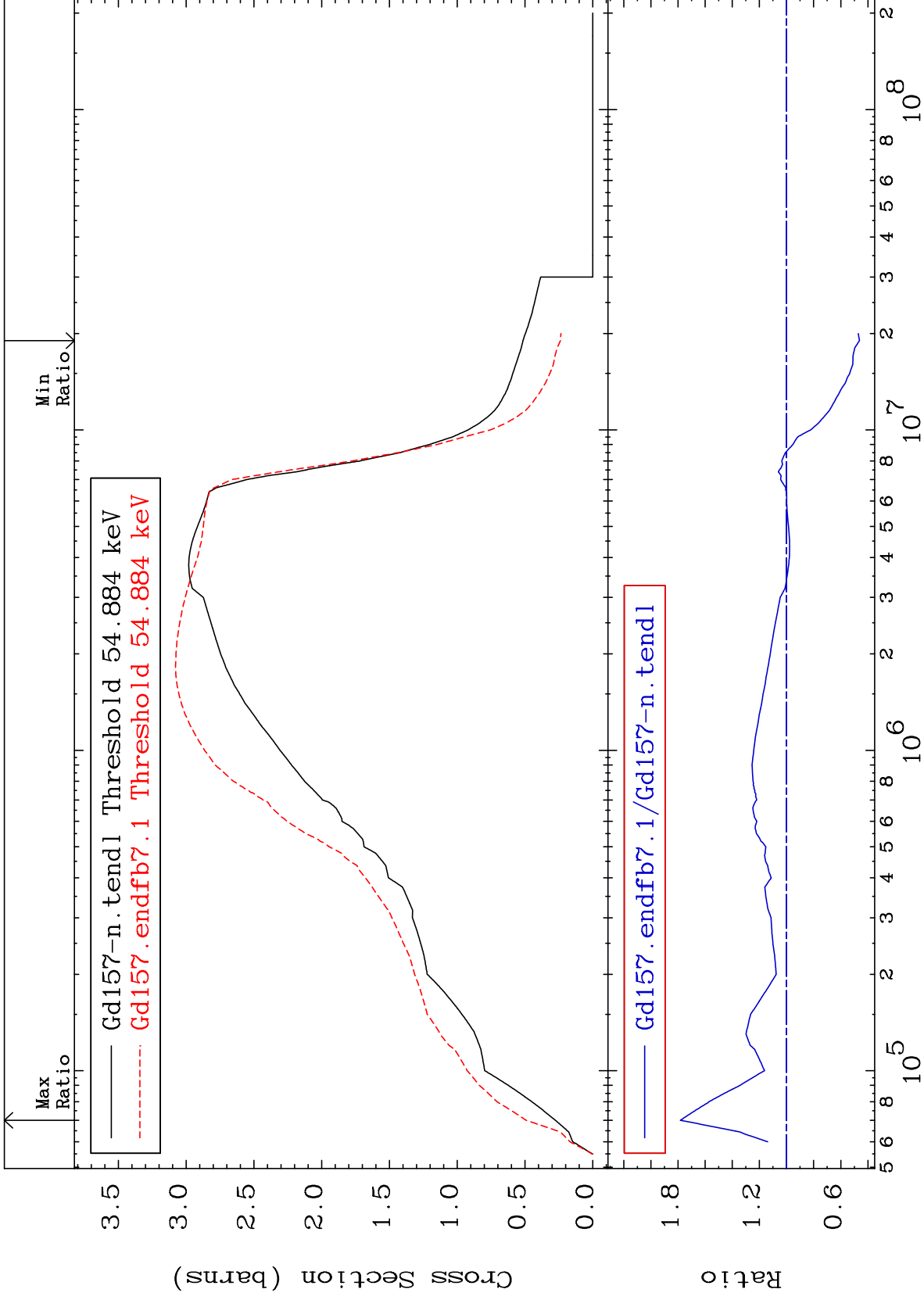
Incident Energy (eV)

64-Gd-157

MAT 6440

Inelastic
Cross Section

64-Gd-157
-53.75 To 78.27 %



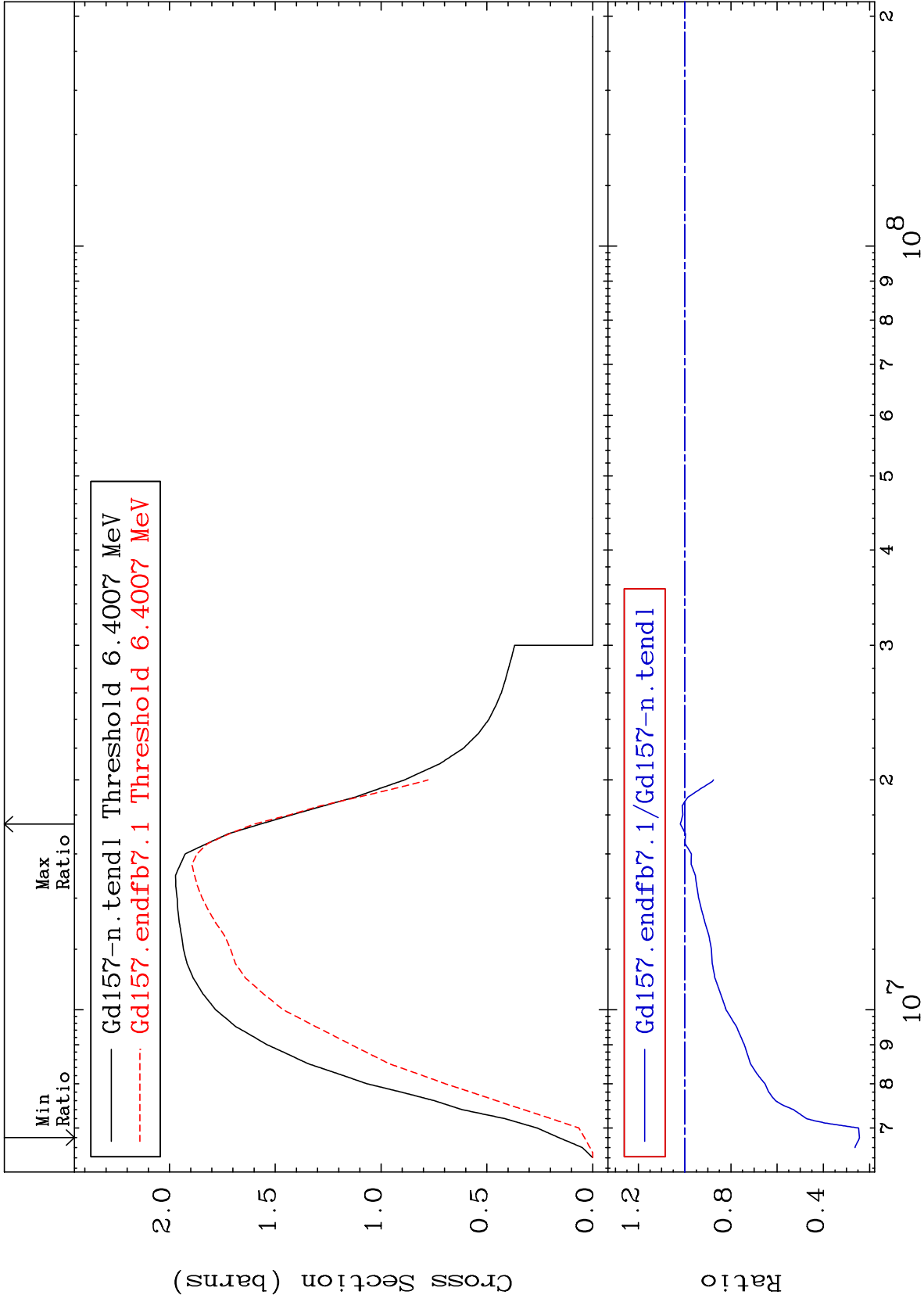
MAT 6440

(n,2n)

64-Gd-157

Cross Section

-75.60 To 1.885 %



4

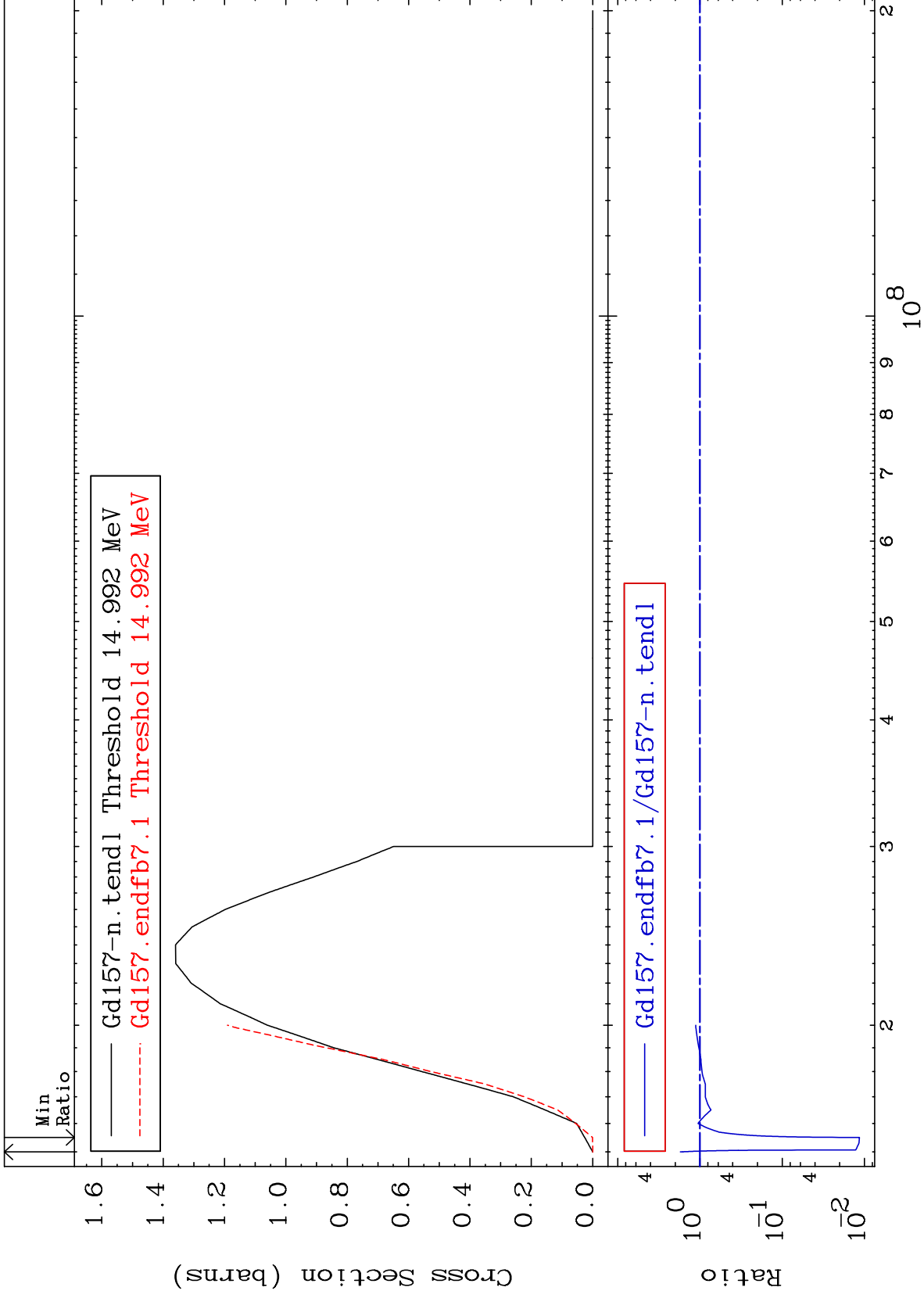
Incident Energy (eV)

64-Gd-157

MAT 6440

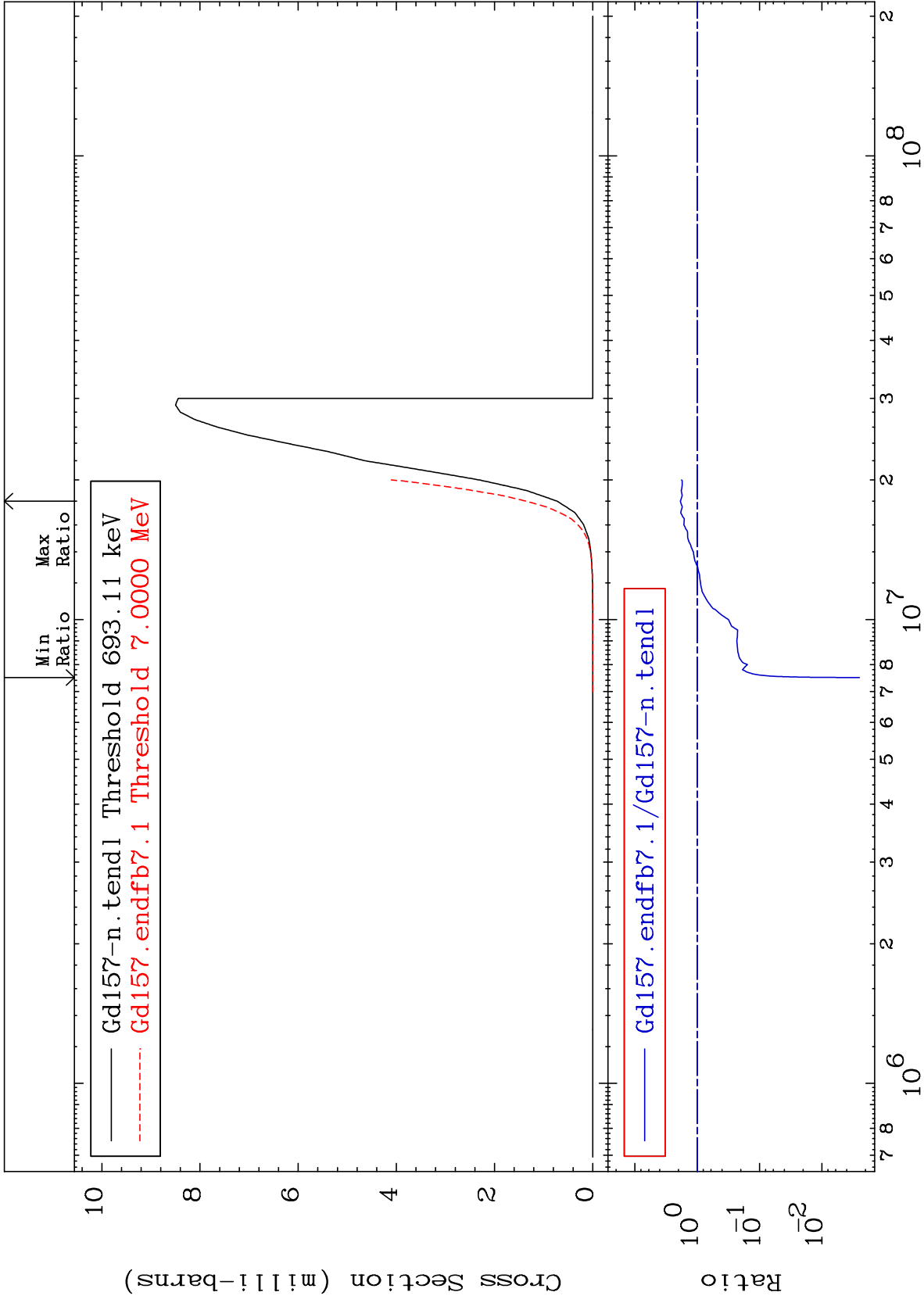
(n,3n)
Cross Section

64-Gd-157
-98.85 To 73.15 %



MAT 6440

$(n, n') \alpha$ Cross Section
64-Gd-157
-99.75 To 86.58 %



6

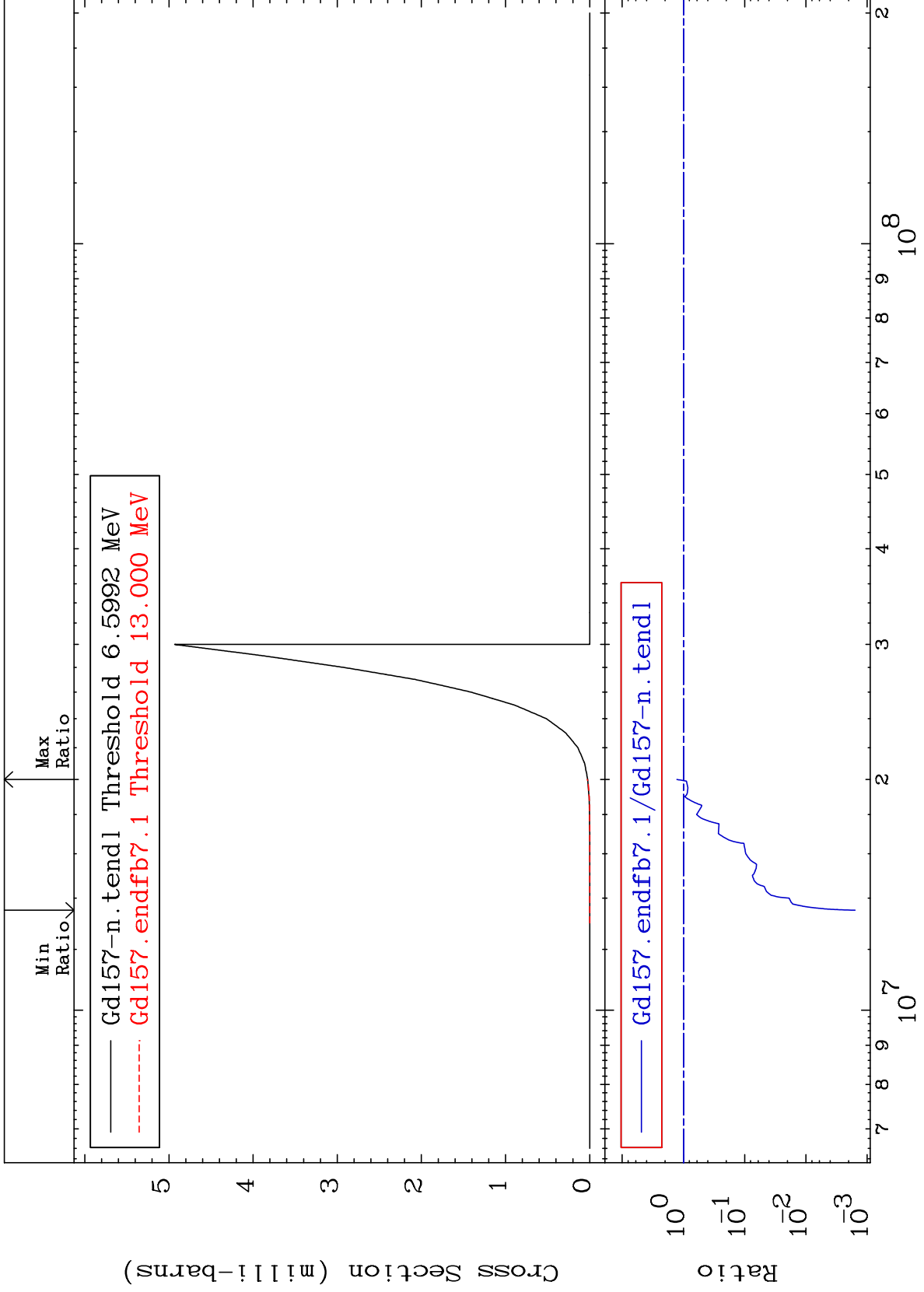
Incident Energy (eV)

64-Gd-157

MAT 6440

(n,2n) α
Cross Section

64-Gd-157
-99.84 To 27.66 %



7

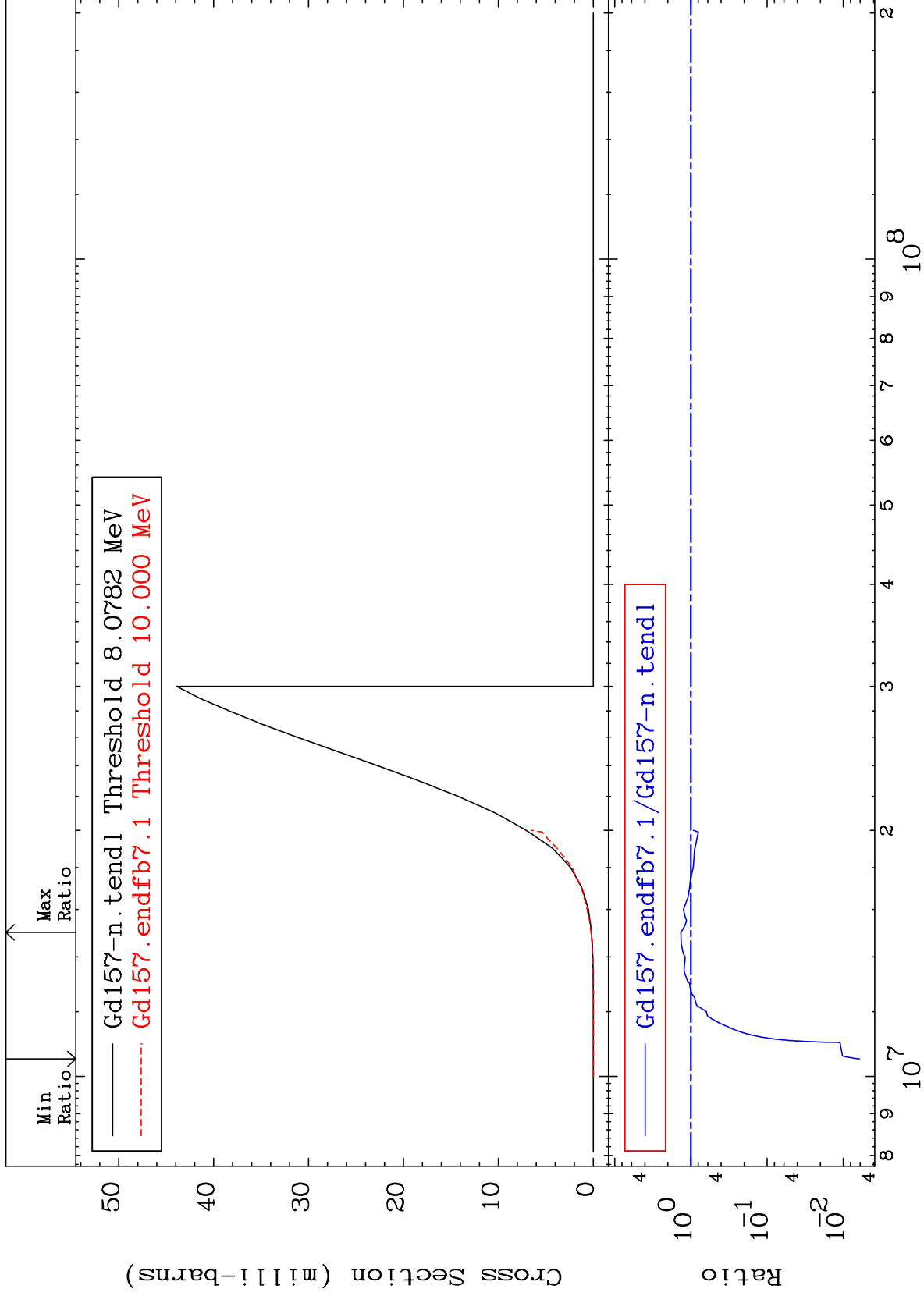
Incident Energy (eV)

64-Gd-157

MAT 6440

(n,n') p
Cross Section

64-Gd-157
-99.39 To 35.60 %



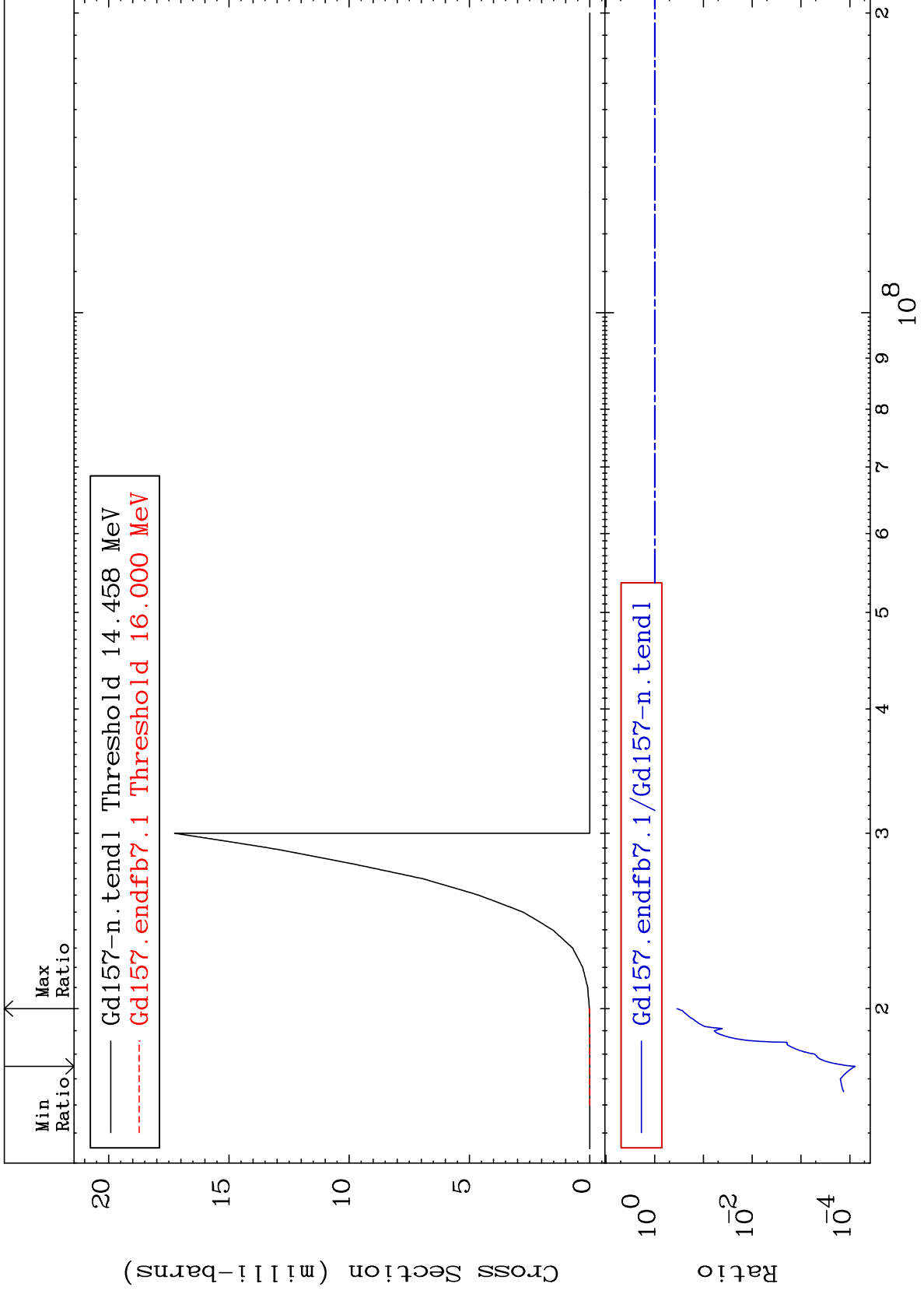
8

64-Gd-157

MAT 6440

(n,2n) p
Cross Section

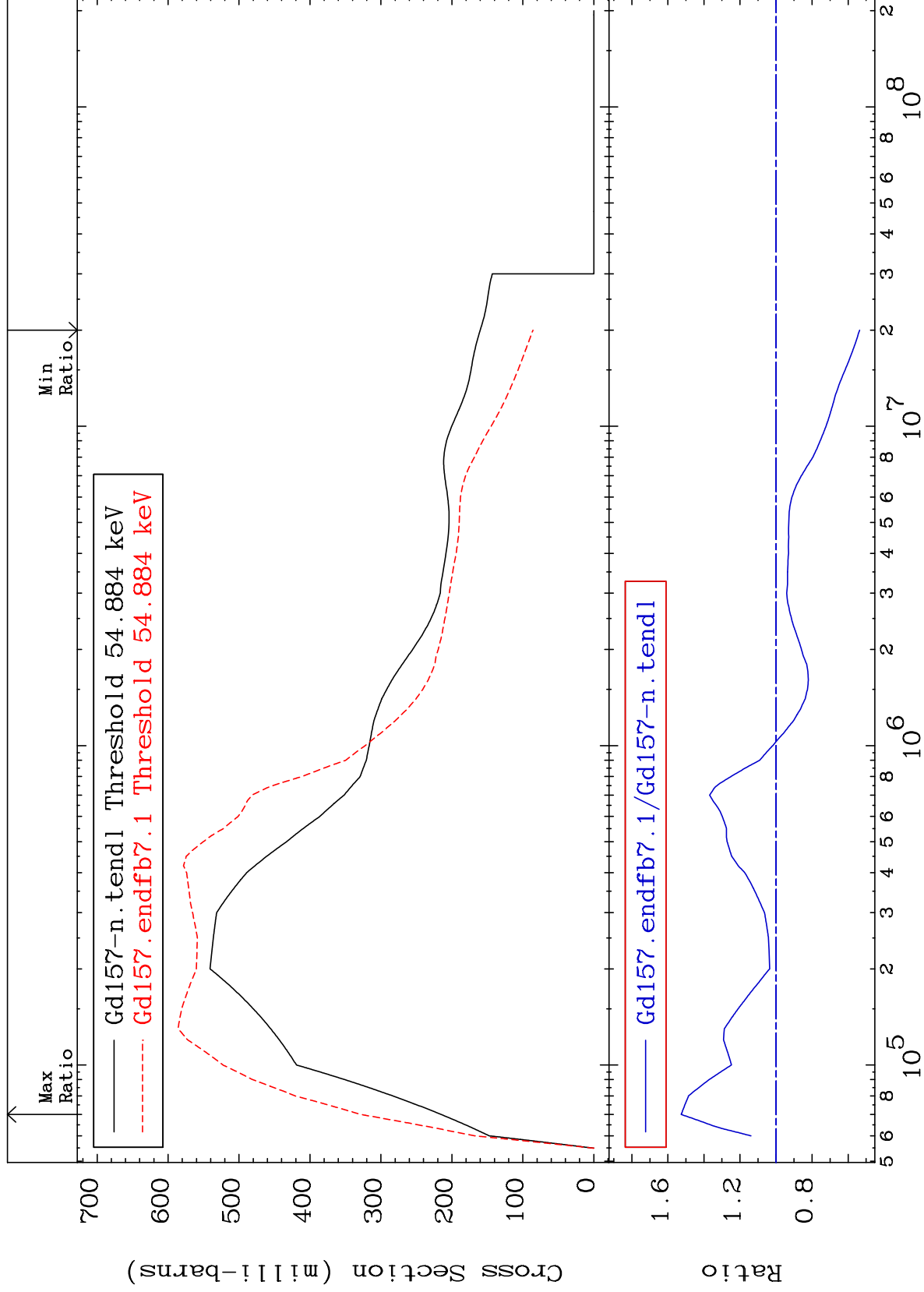
64-Gd-157
-99.99 To -64.99%



MAT 6440

54.53 keV (n,n') Level
Cross Section

64-Gd-157
-46.40 To 52.62 %



10

Incident Energy (eV)

64-Gd-157

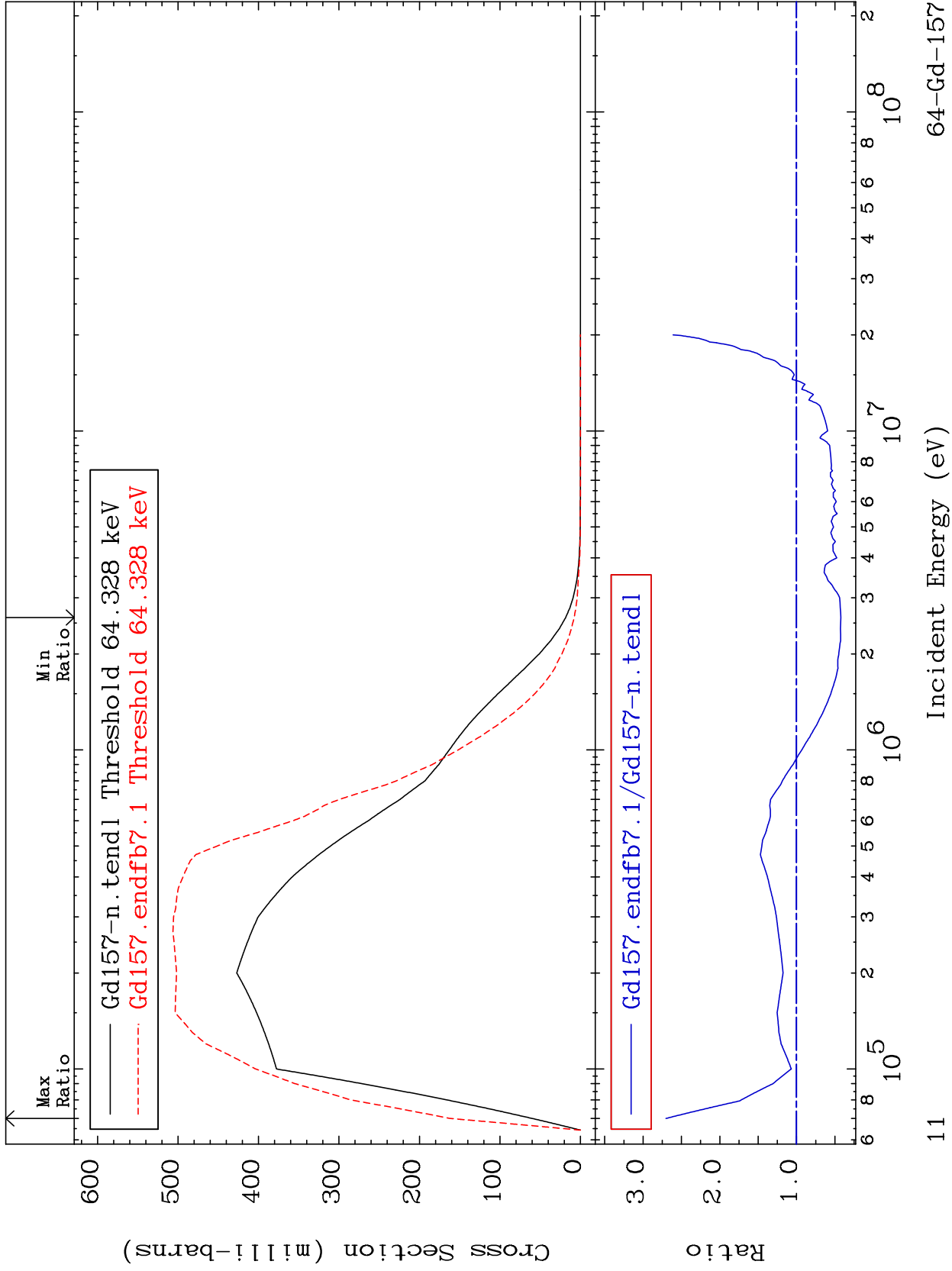
MAT 6440

63.92 keV (n,n') Level

64-Gd-157

-57.75 To 170.2 %

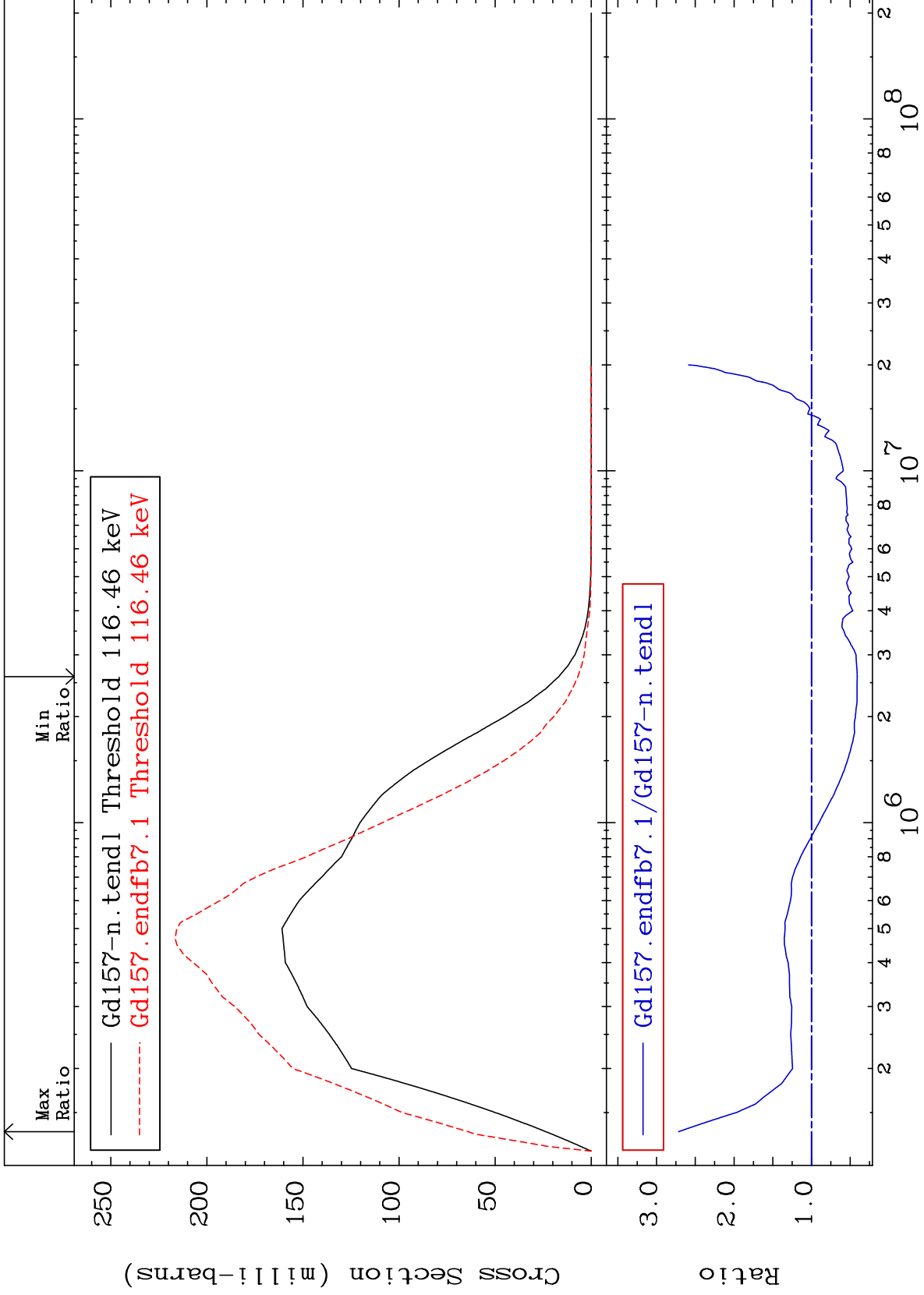
Cross Section



MAT 6440

115.7 keV (n,n') Level
Cross Section

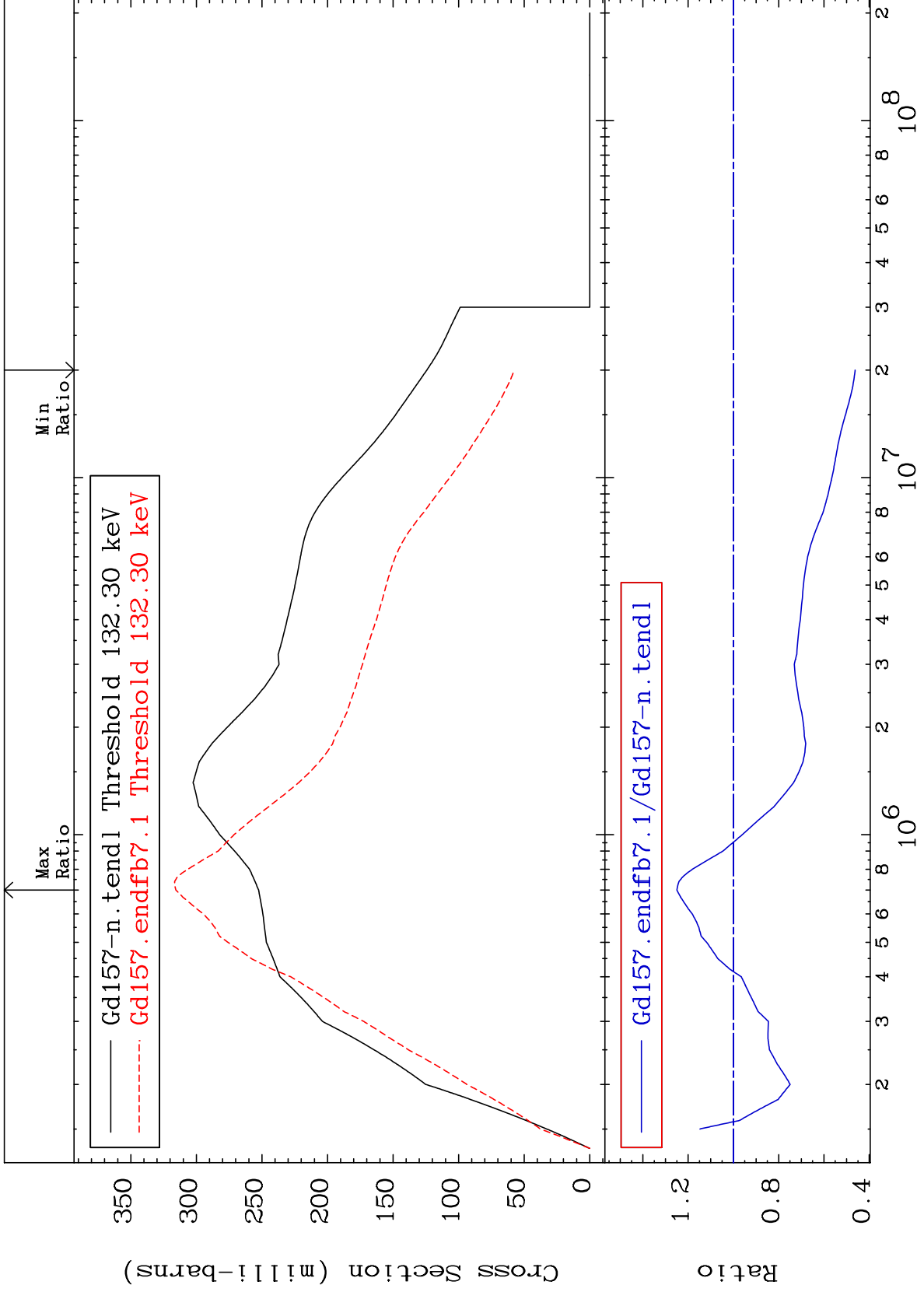
64-Gd-157
-59.05 To 171.5 %



MAT 6440

131.5 keV (n,n') Level
Cross Section

64-Gd-157
-53.76 To 24.96 %



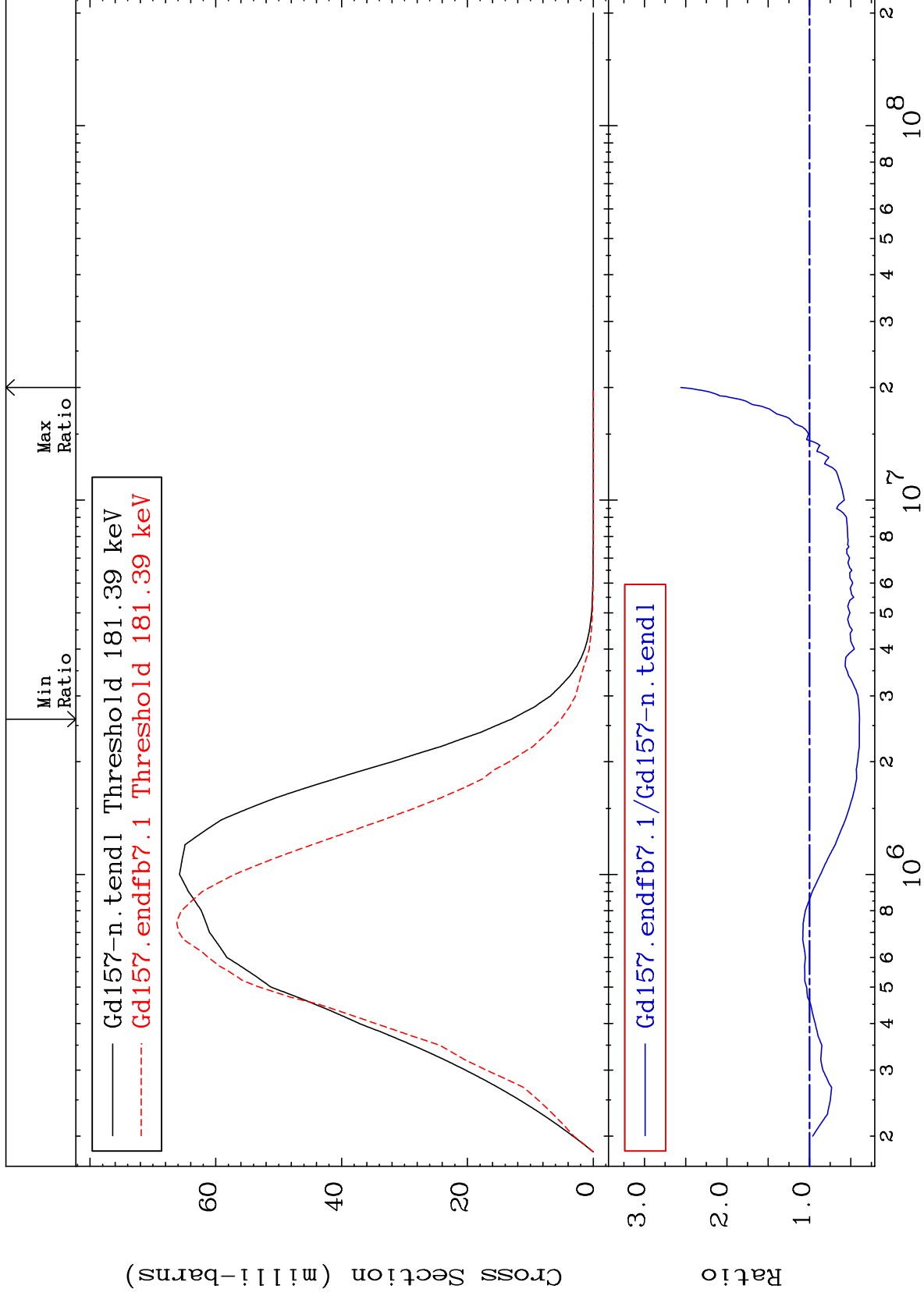
MAT 6440

180.2 keV (n,n') Level

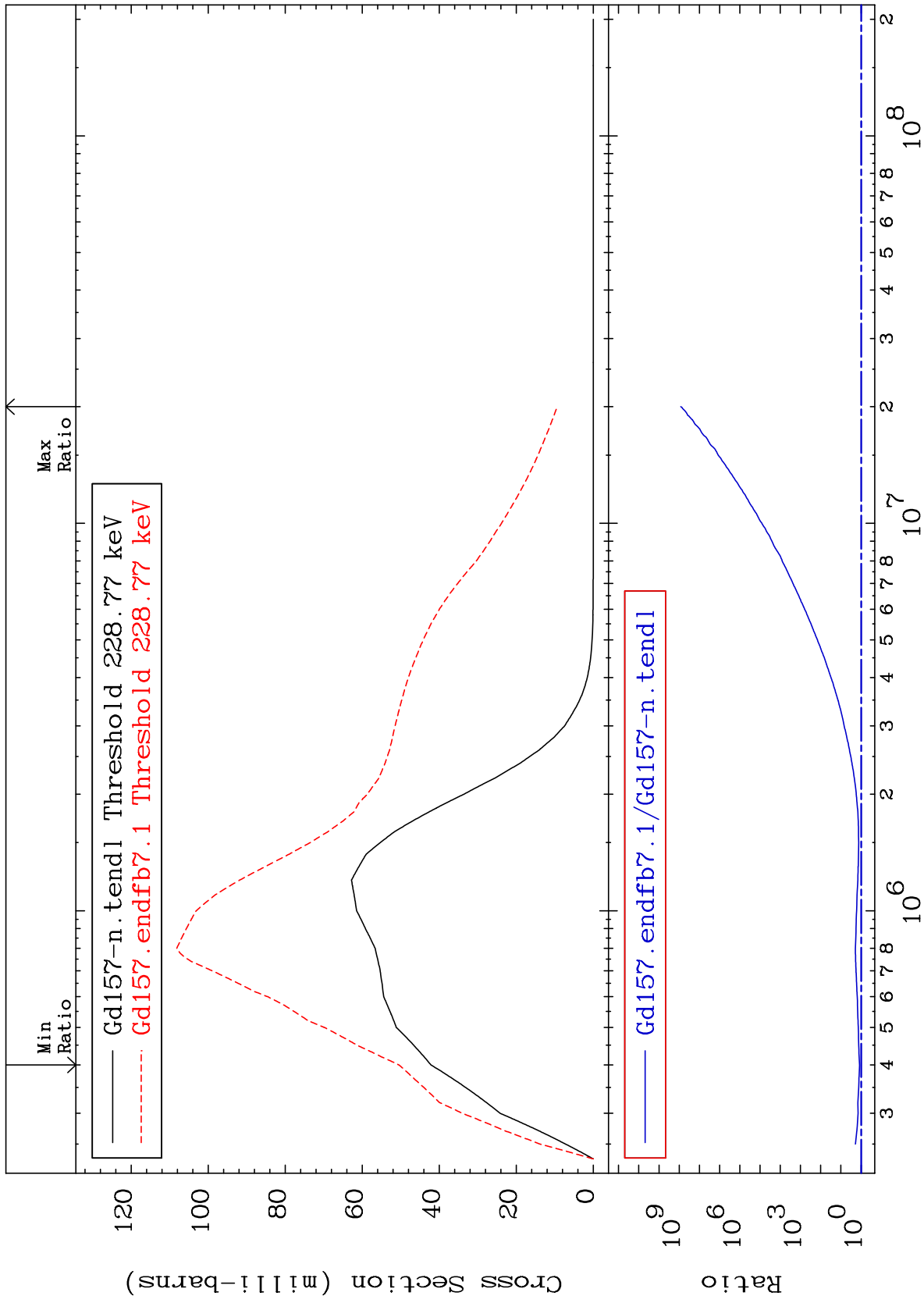
64-Gd-157

-60.63 To 156.0 %

Cross Section



MAT 6440 227.3 keV (n,n') Level 64-Gd-157
 Cross Section 19.70 To 9999. %

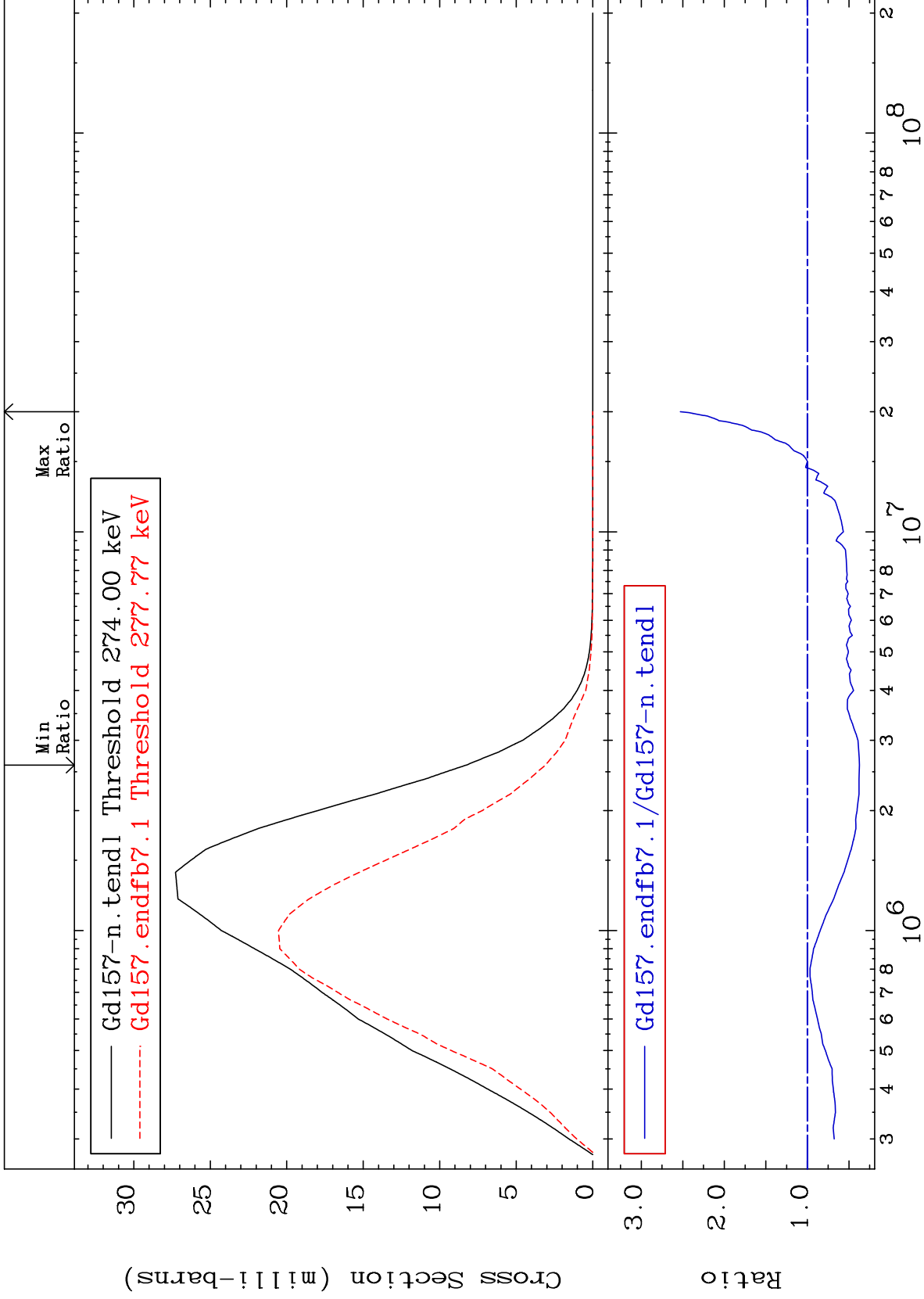


15 Incident Energy (eV) 64-Gd-157

MAT 6440

272.3 keV (n,n') Level
Cross Section

64-Gd-157
-62.62 To 152.9 %



16

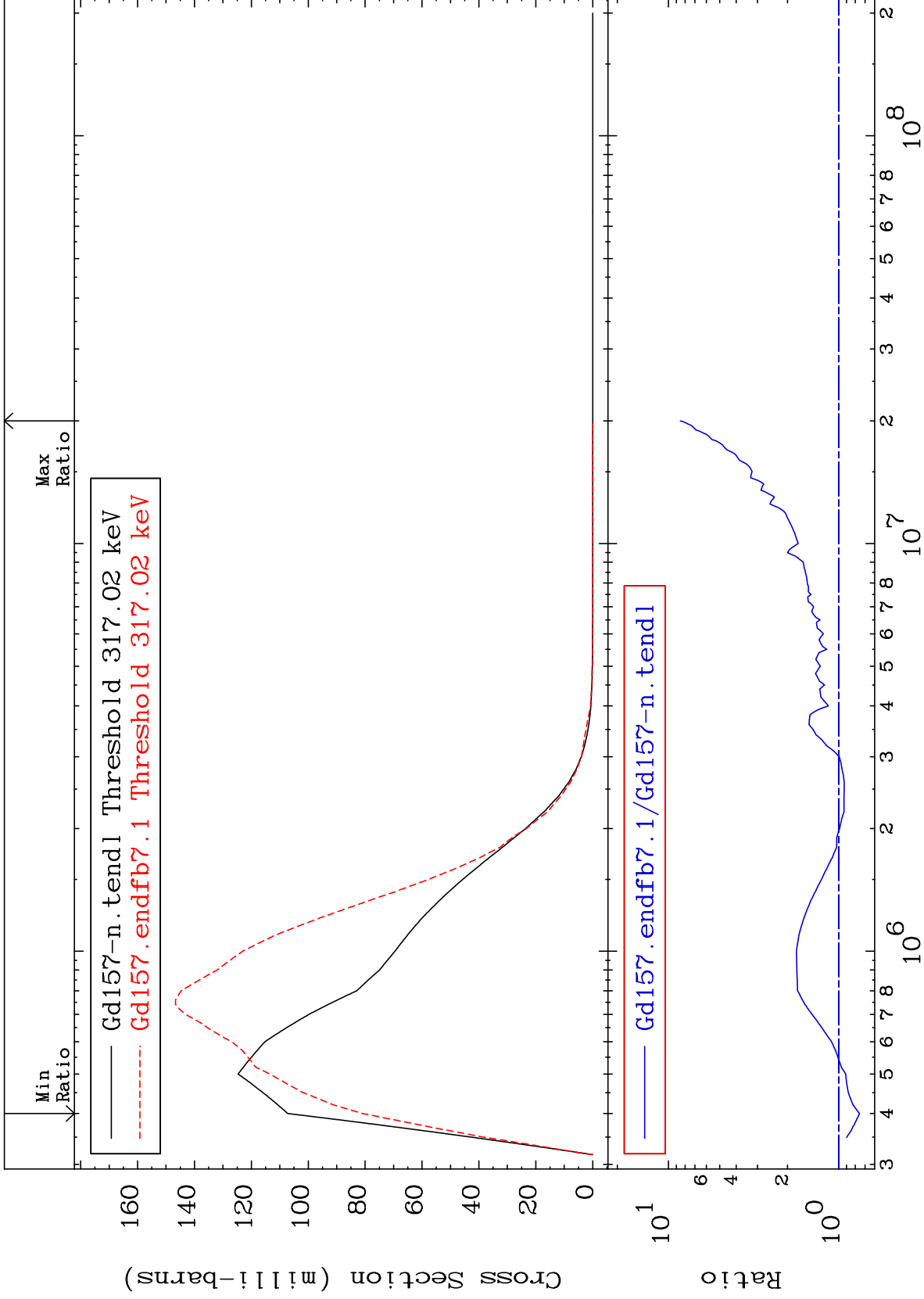
Incident Energy (eV)

64-Gd-157

MAT 6440

315.0 keV (n,n') Level
Cross Section

64-Gd-157
-24.48 To 752.1 %



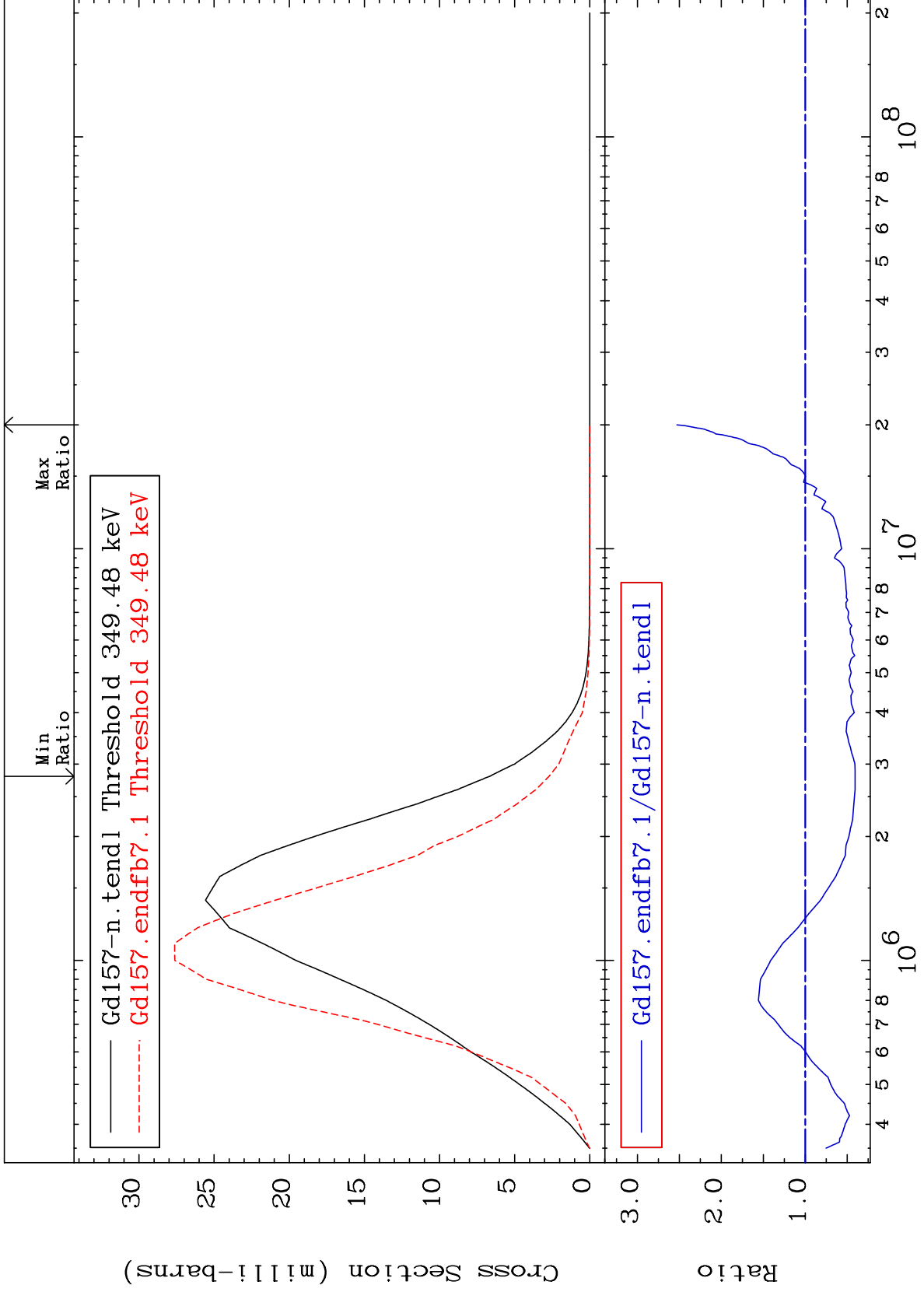
17

64-Gd-157

MAT 6440

347.3 keV (n,n') Level
Cross Section

64-Gd-157
-59.39 To 153.0 %



18

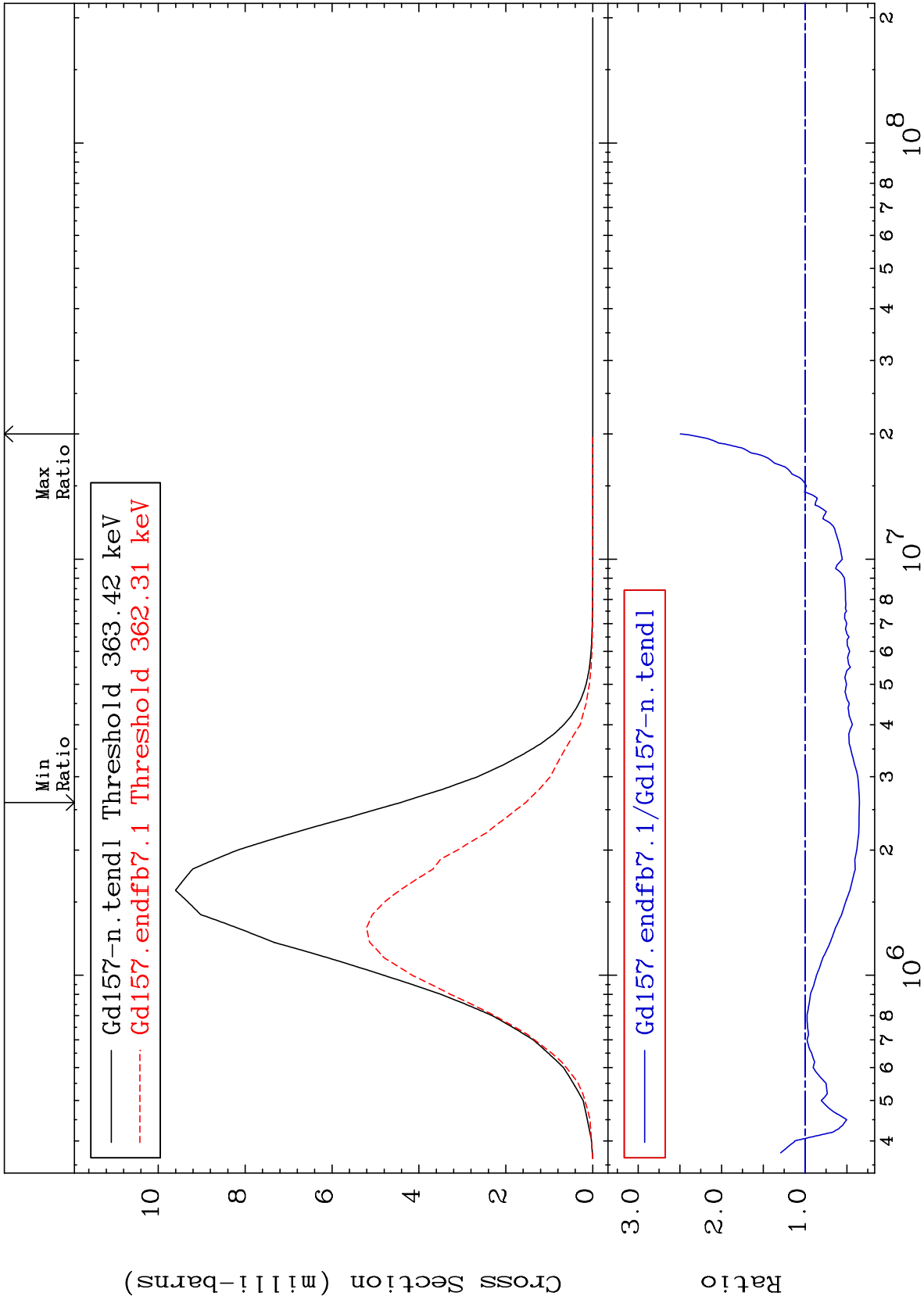
Incident Energy (eV)

64-Gd-157

MAT 6440

361.1 keV (n,n') Level
Cross Section

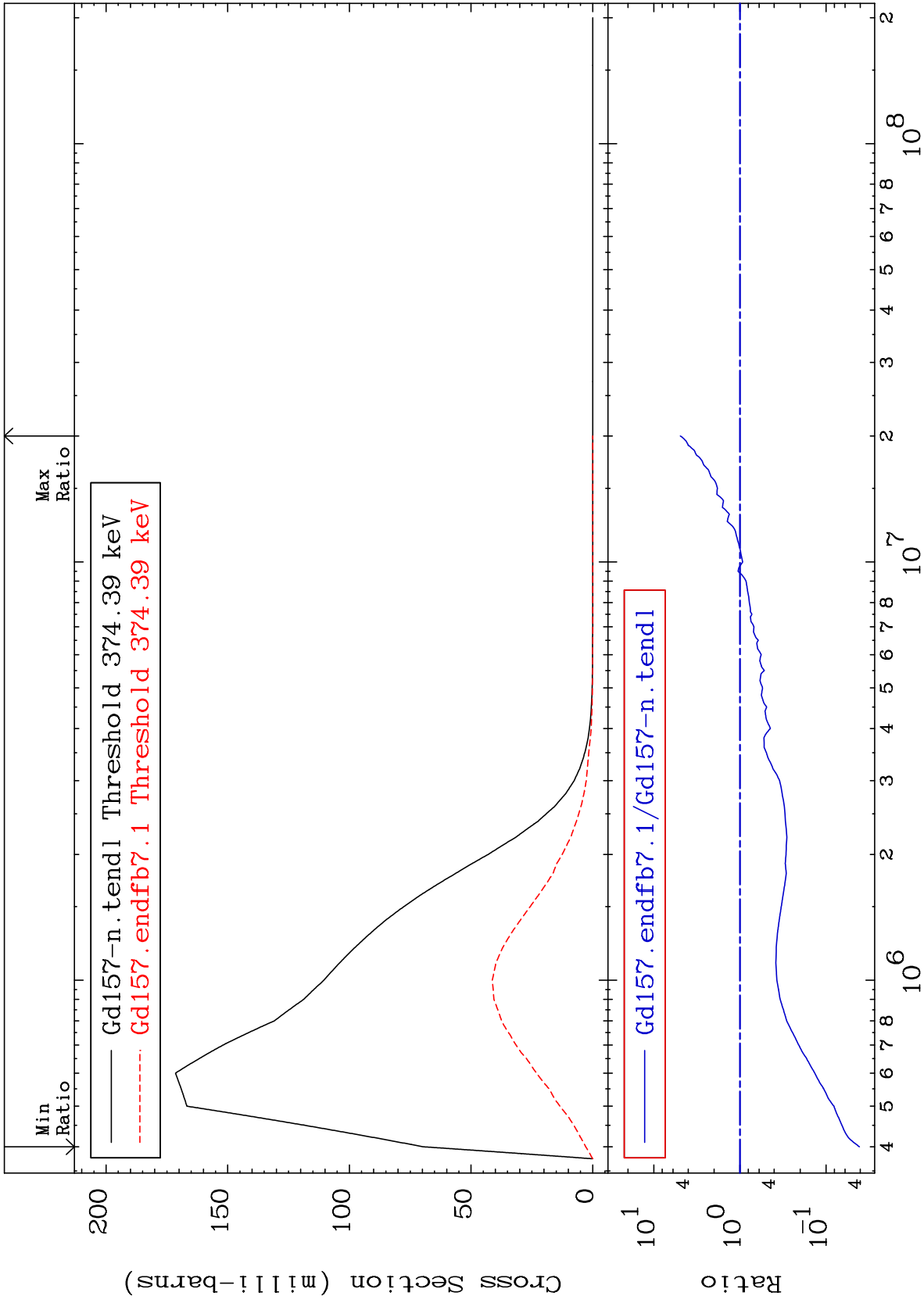
64-Gd-157
-65.11 To 149.5 %



MAT 6440

372.0 keV (n,n') Level
Cross Section

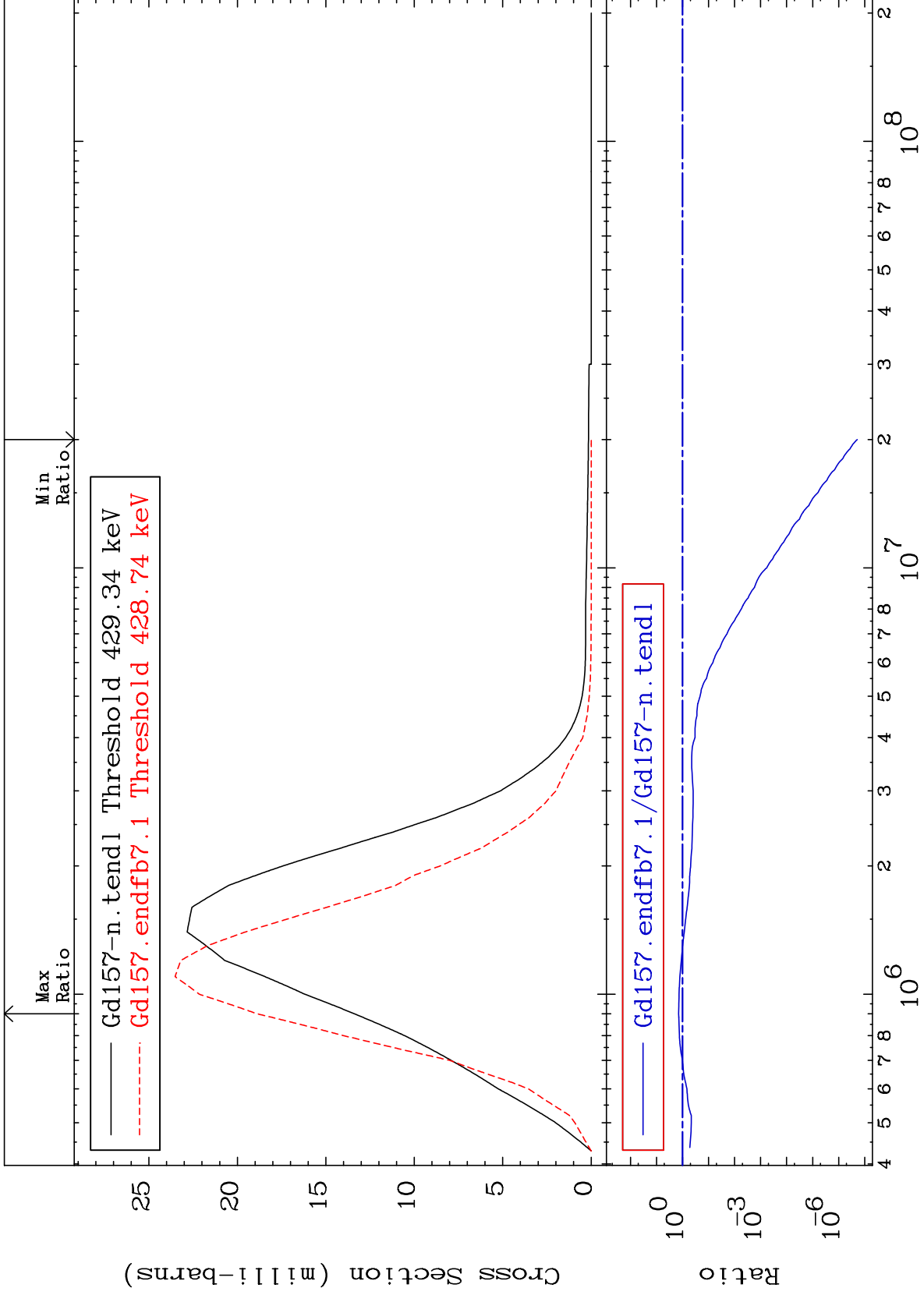
64-Gd-157
-95.91 To 392.8 %



MAT 6440

426.6 keV (n,n') Level
Cross Section

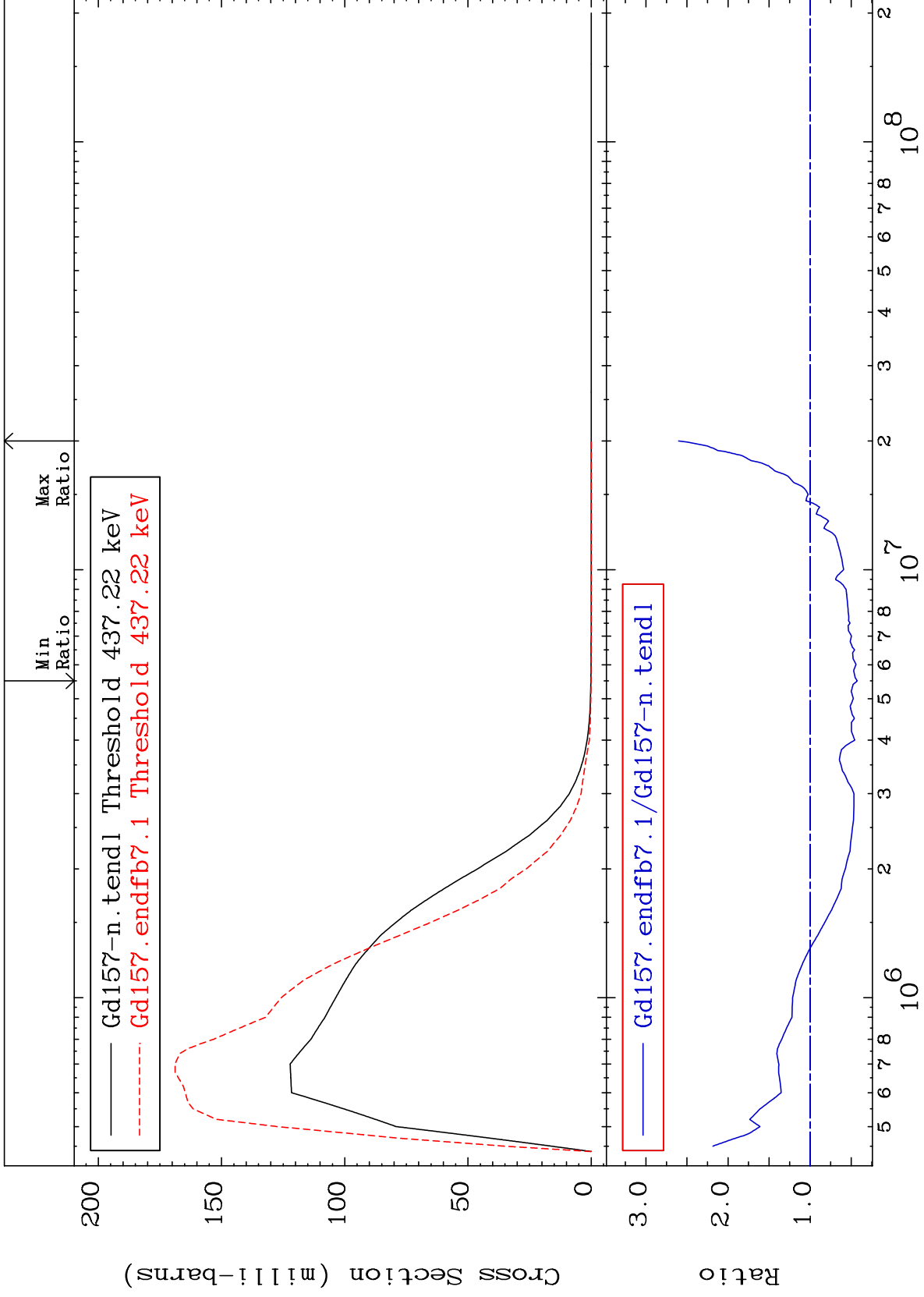
64-Gd-157
-100.0 To 41.01 %



MAT 6440

434.4 keV (n,n') Level
Cross Section

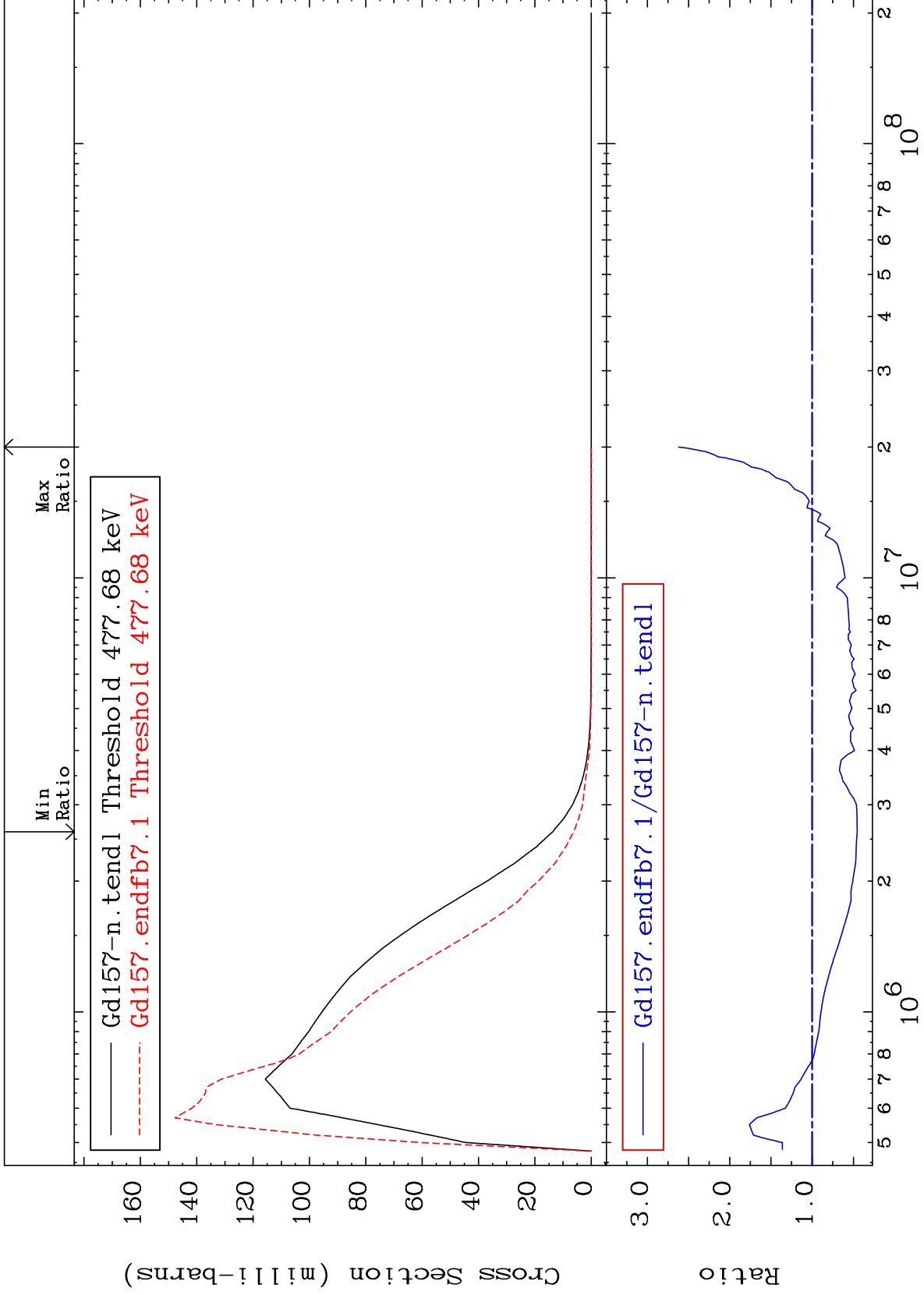
64-Gd-157
-57.38 To 160.2 %



MAT 6440

474.6 keV (n,n') Level
Cross Section

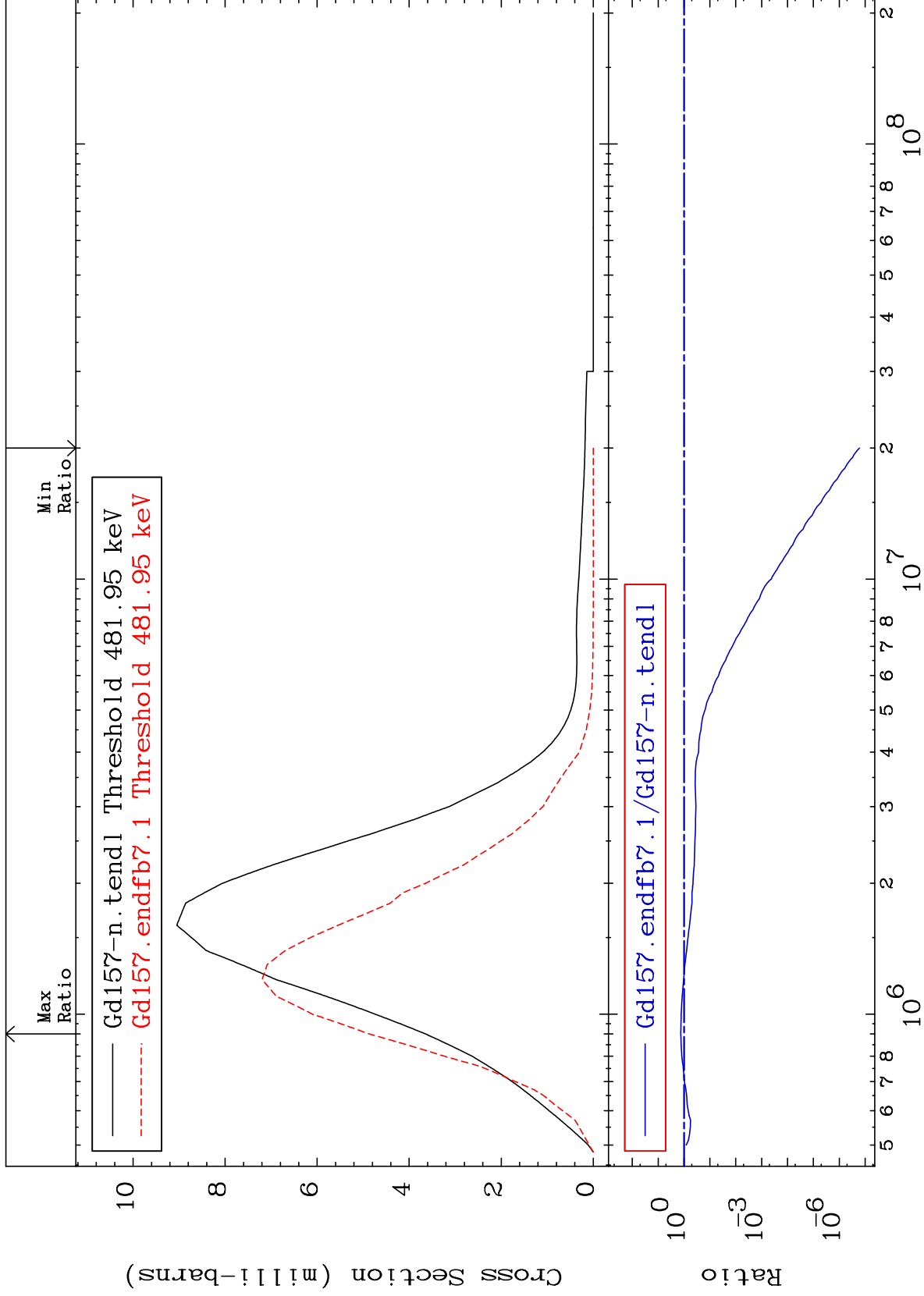
64-Gd-157
-54.67 To 162.1 %



MAT 6440

478.9 keV (n,n') Level
Cross Section

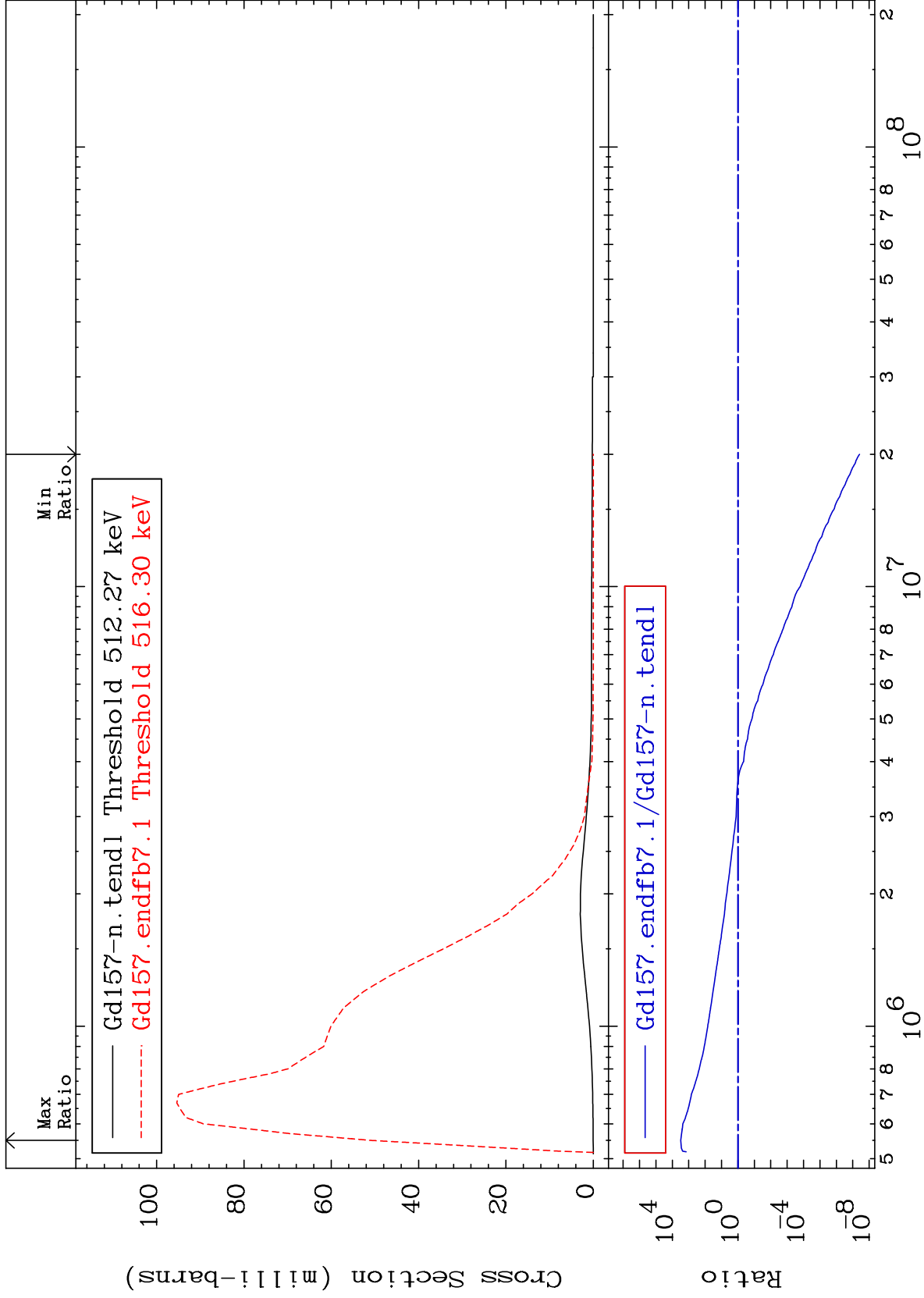
64-Gd-157
-100.0 To 33.59 %



MAT 6440

509.0 keV (n,n') Level
Cross Section

64-Gd-157
-100.0 To 9999. %



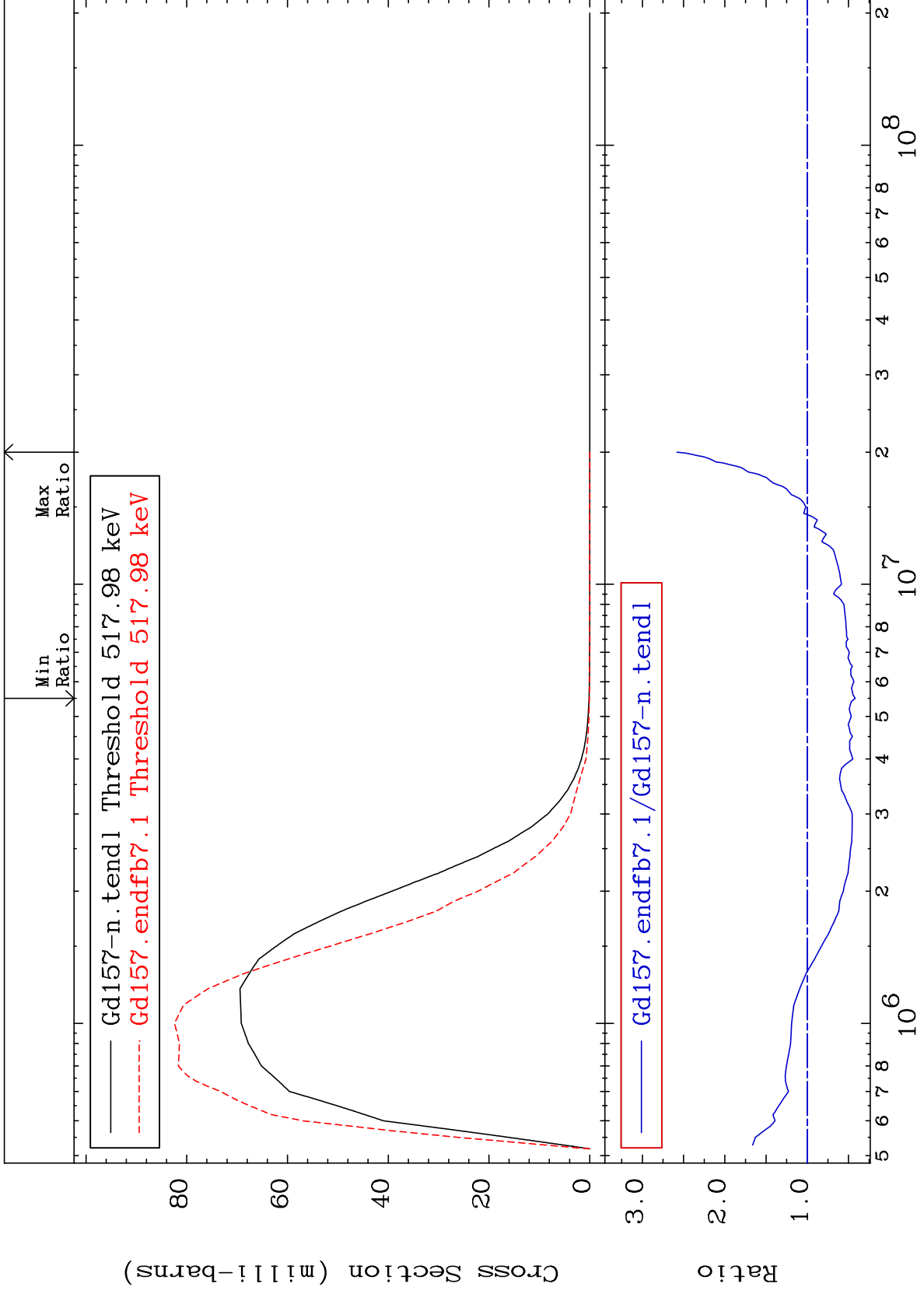
25

64-Gd-157

MAT 6440

514.7 keV (n,n') Level
Cross Section

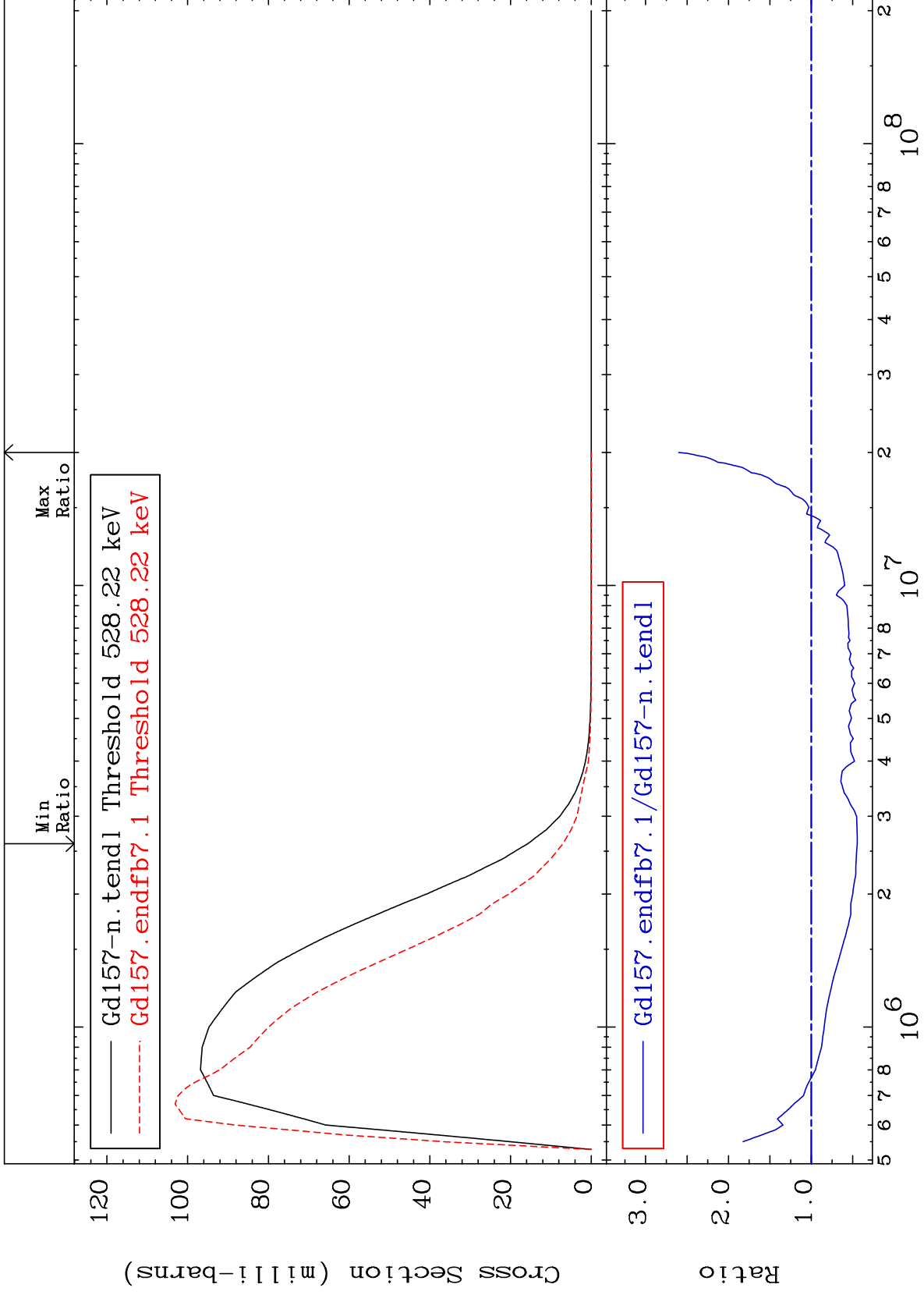
64-Gd-157
-57.93 To 158.1 %



MAT 6440

524.8 keV (n,n') Level
Cross Section

64-Gd-157
-55.45 To 160.1 %



27

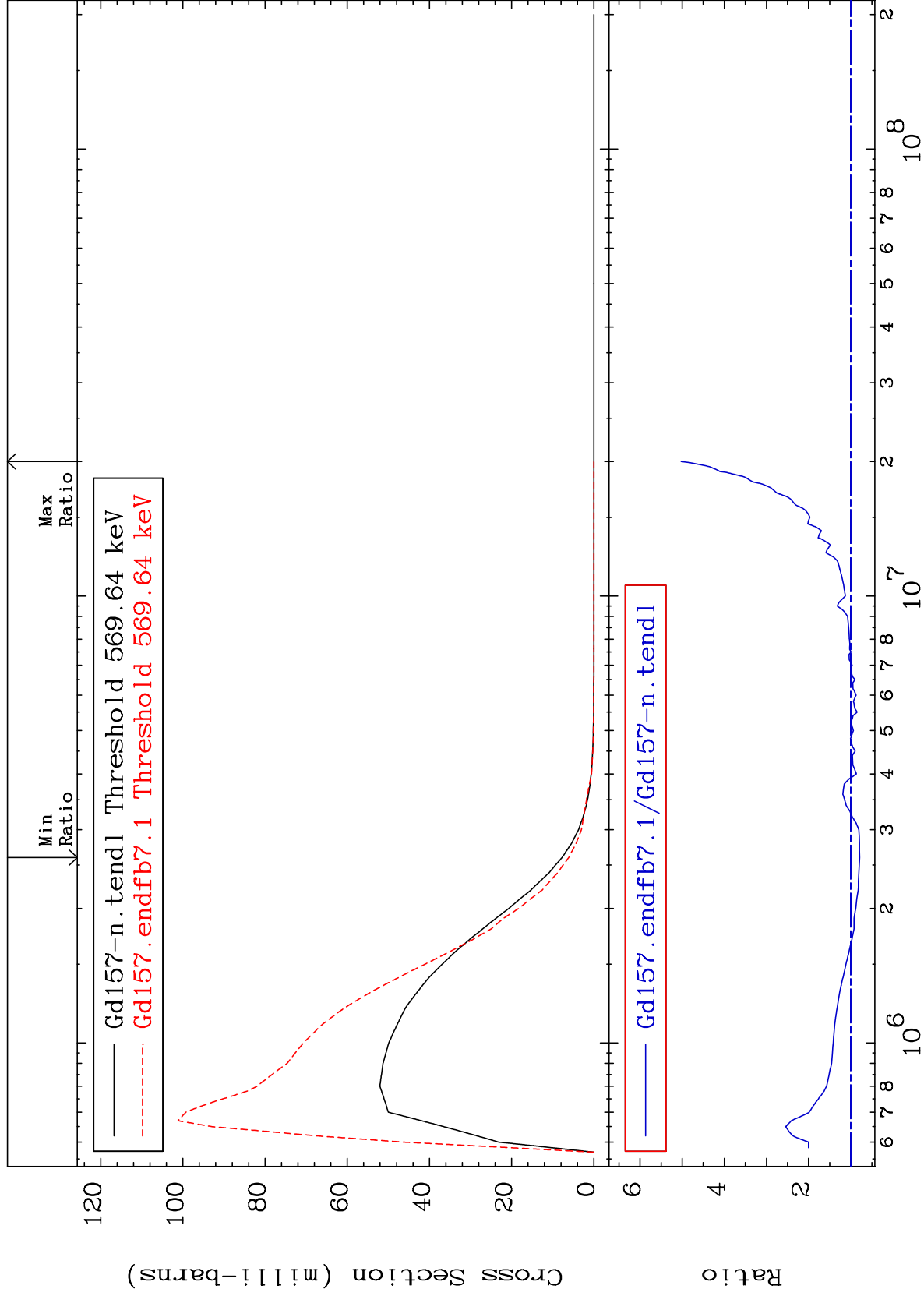
Incident Energy (eV)

64-Gd-157

MAT 6440

566.0 keV (n,n') Level
Cross Section

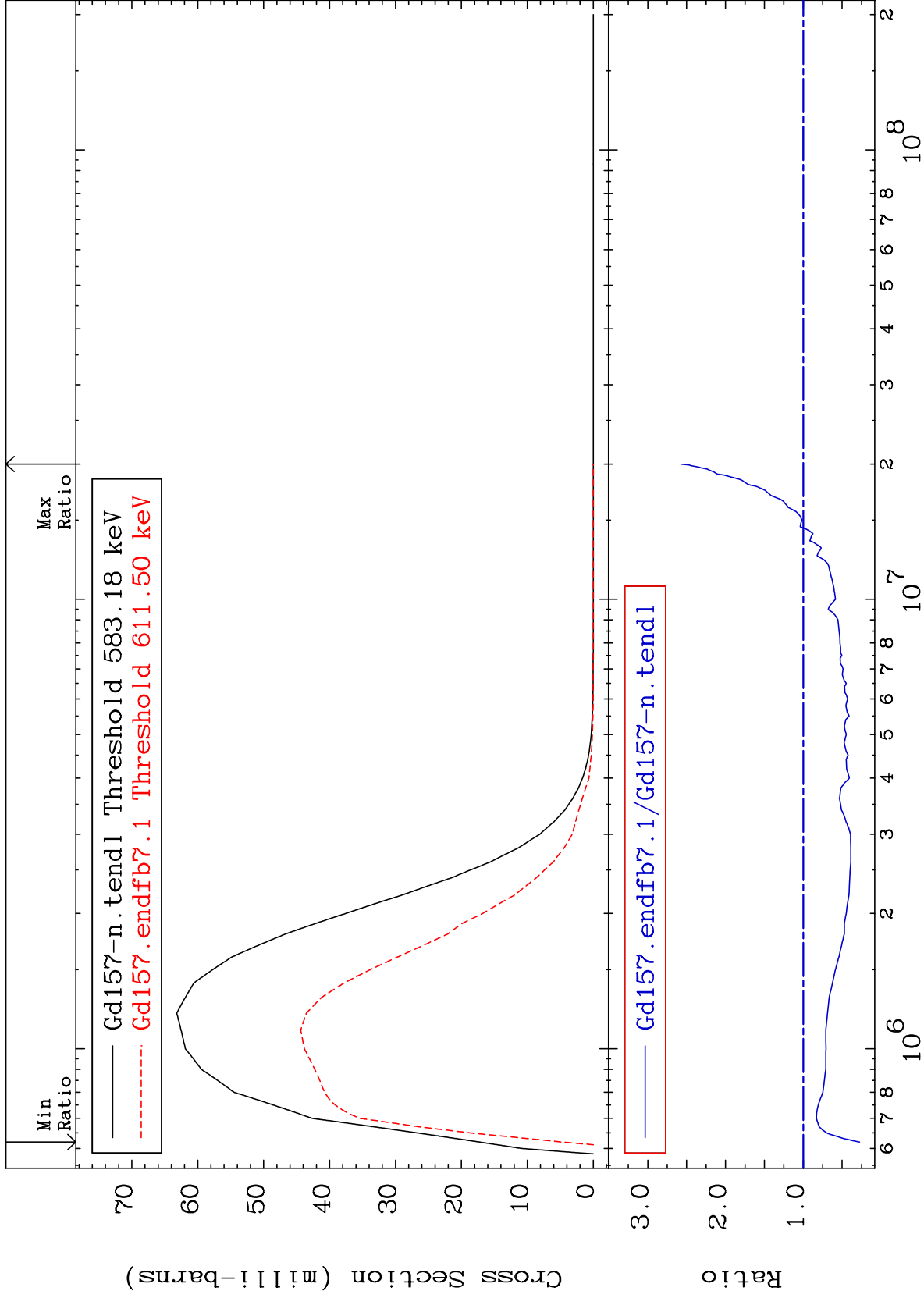
64-Gd-157
-21.13 To 402.3 %



MAT 6440

579.5 keV (n,n') Level
Cross Section

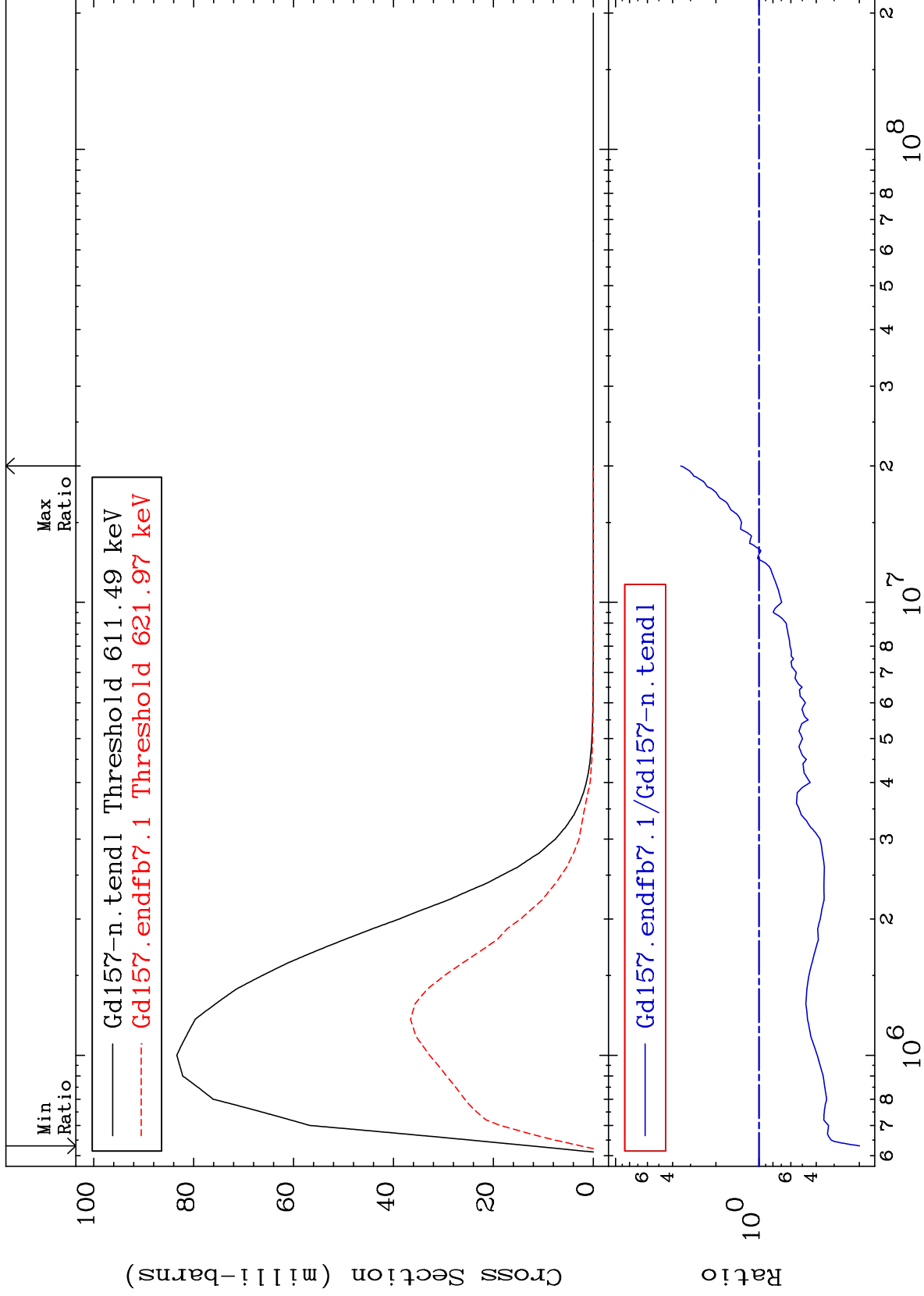
64-Gd-157
-72.40 To 157.6 %



MAT 6440

607.6 keV (n,n') Level
Cross Section

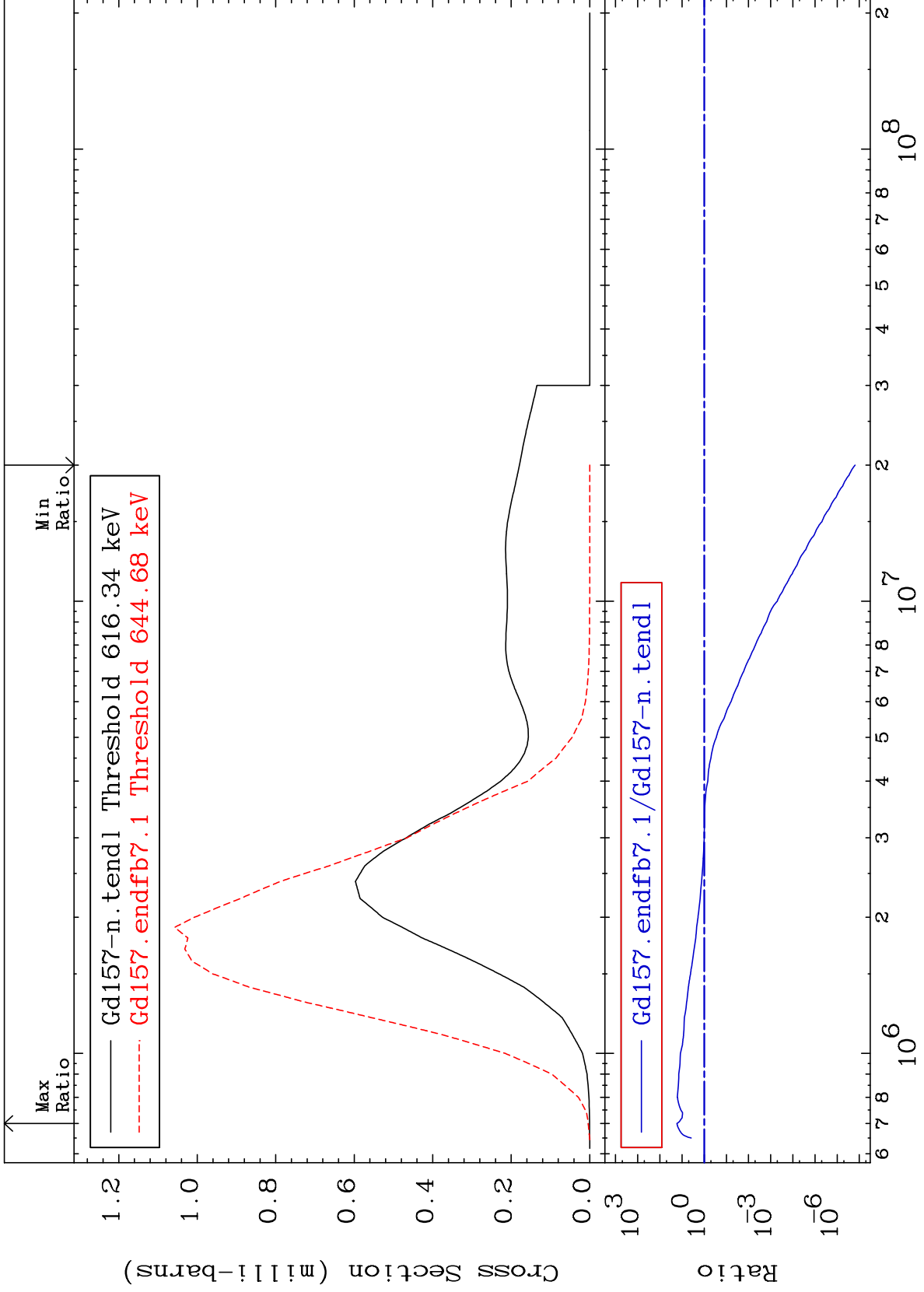
64-Gd-157
-80.06 To 251.2 %



MAT 6440

612.4 keV (n,n') Level
Cross Section

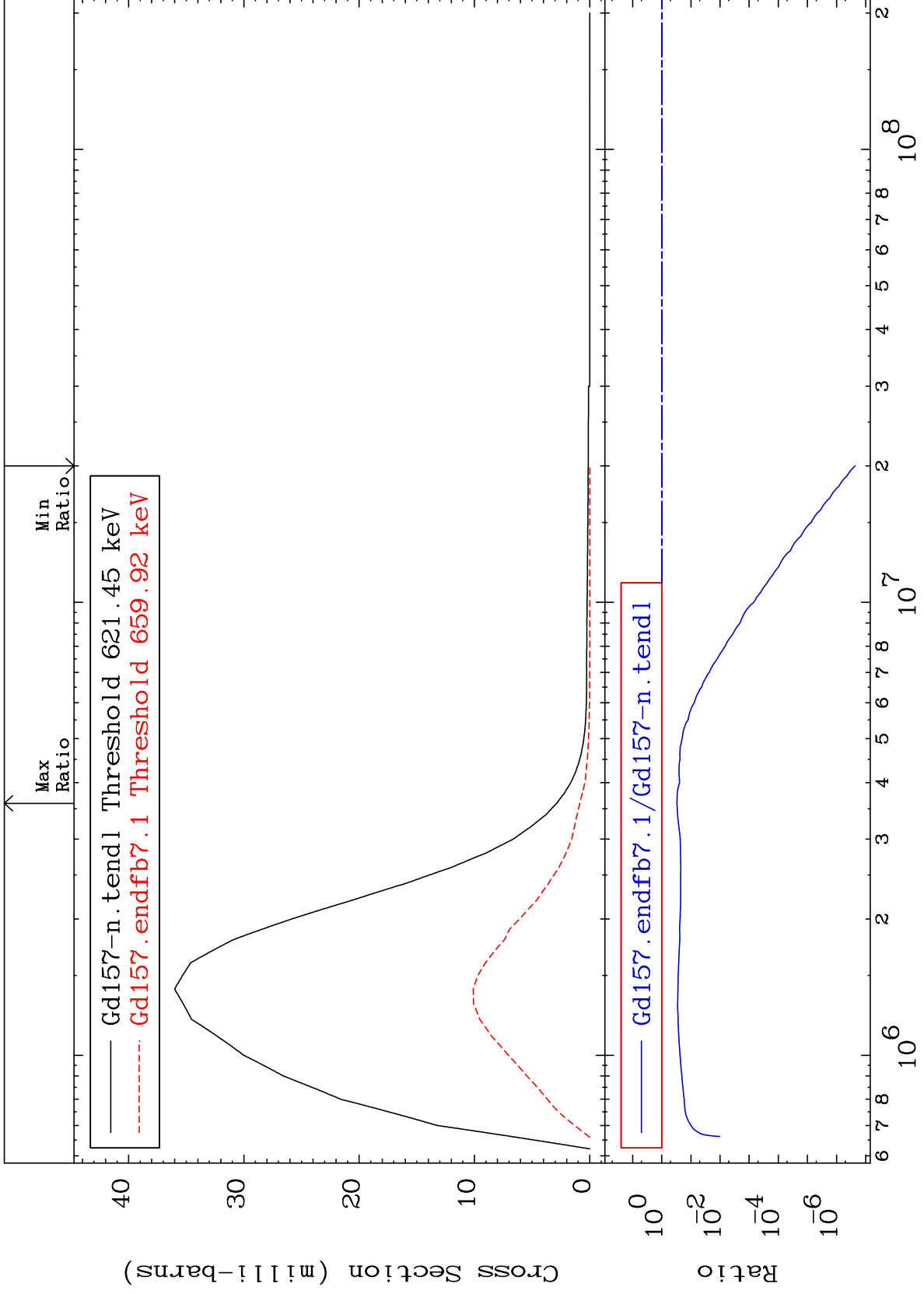
64-Gd-157
-100.0 To 1603. %



MAT 6440

617.5 keV (n,n') Level
Cross Section

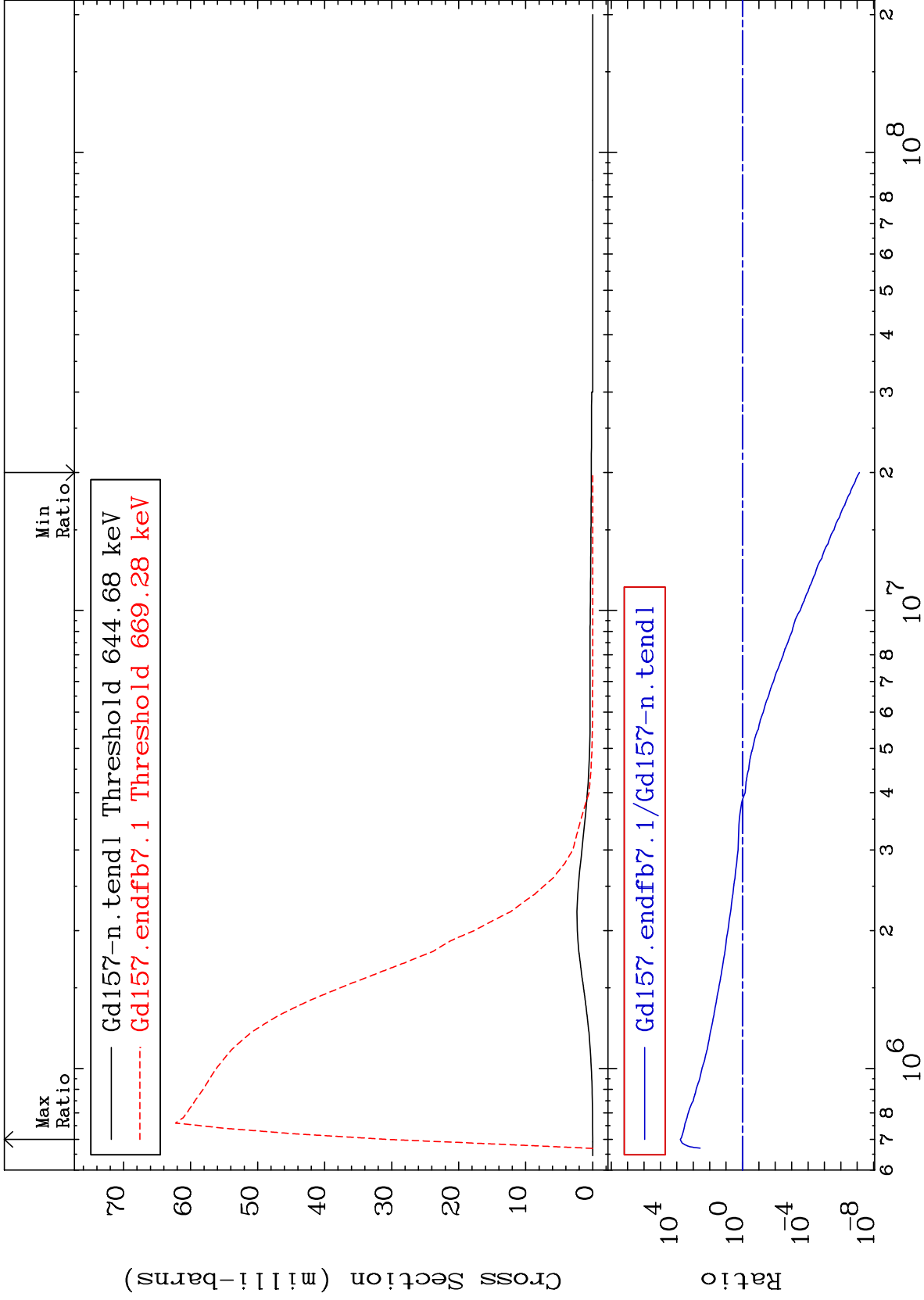
64-Gd-157
-100.0 To -69.86%



MAT 6440

640.6 keV (n,n') Level
Cross Section

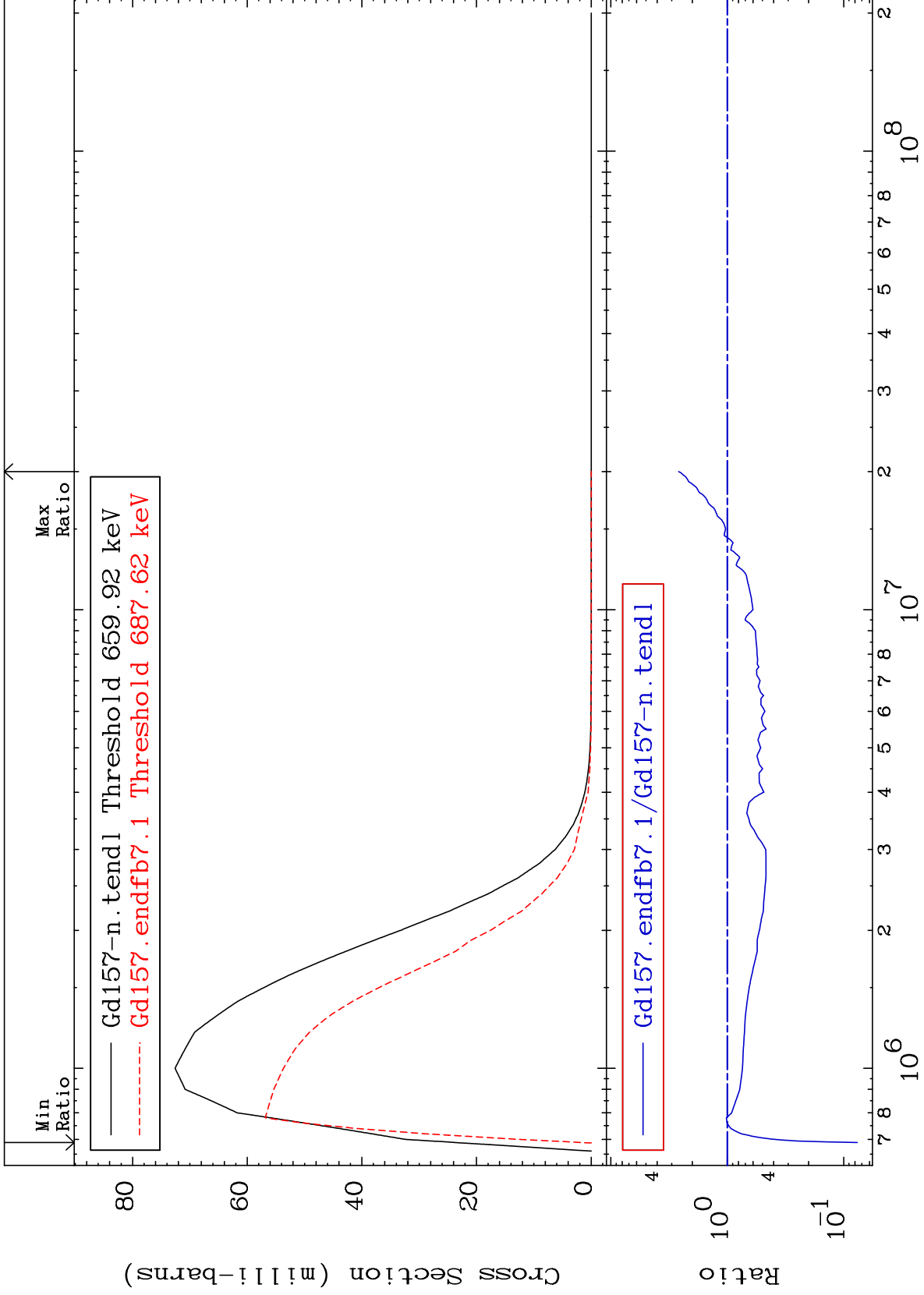
64-Gd-157
-100.0 To 9999. %



MAT 6440

655.7 keV (n,n') Level
Cross Section

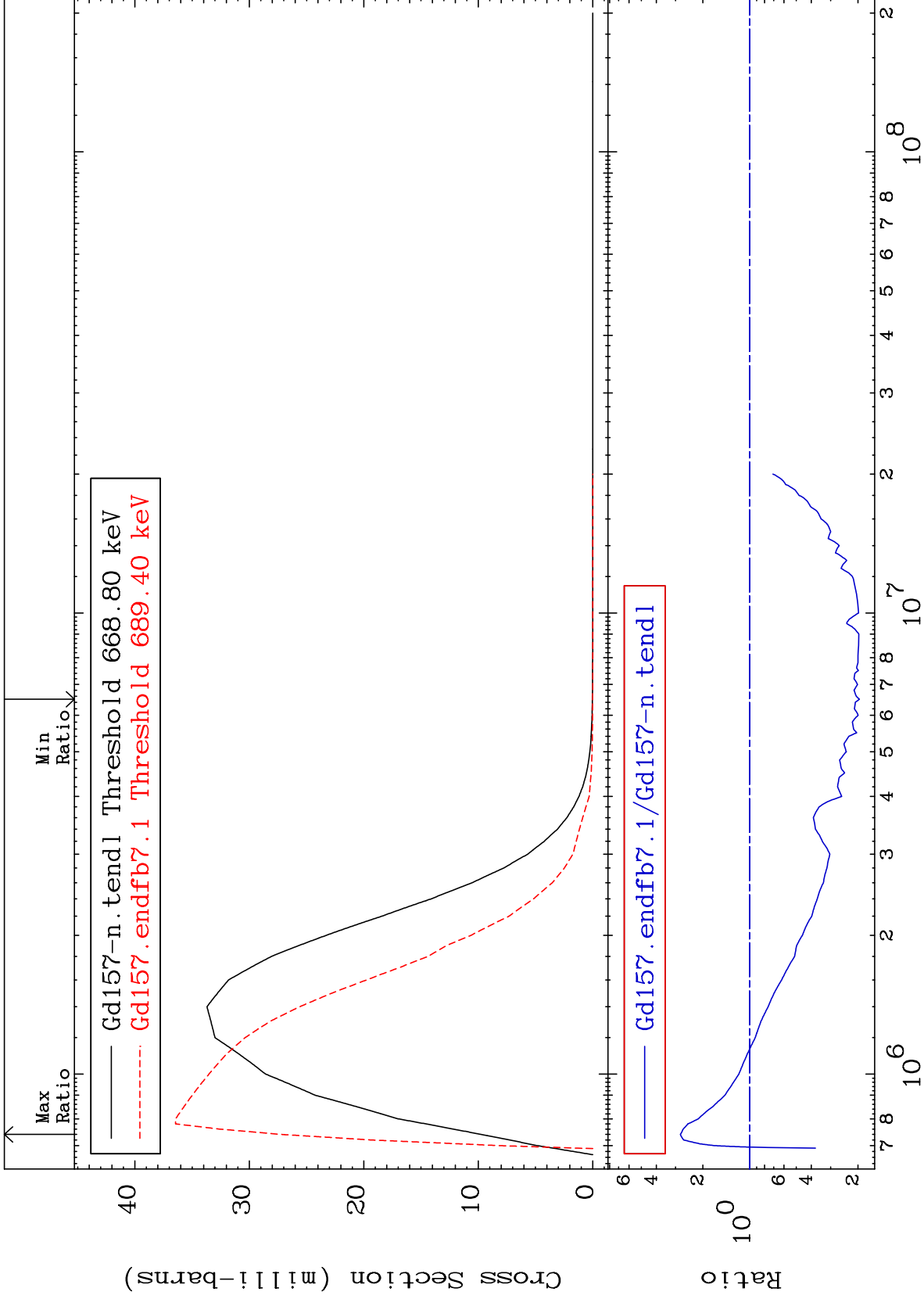
64-Gd-157
-92.35 To 161.7 %



MAT 6440

664.5 keV (n,n') Level
Cross Section

64-Gd-157
-80.42 To 179.6 %



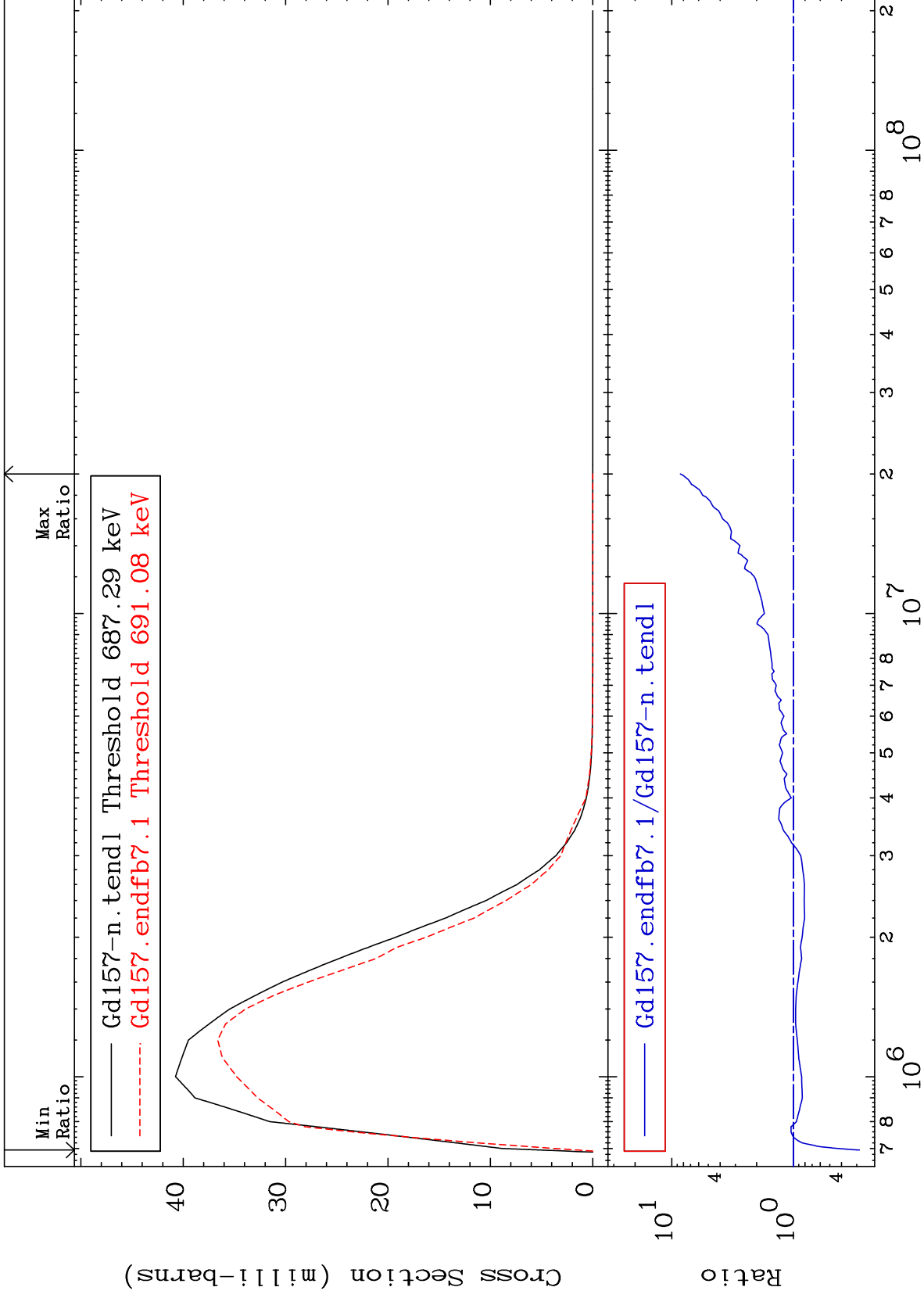
35

64-Gd-157

MAT 6440

682.9 keV (n,n') Level
Cross Section

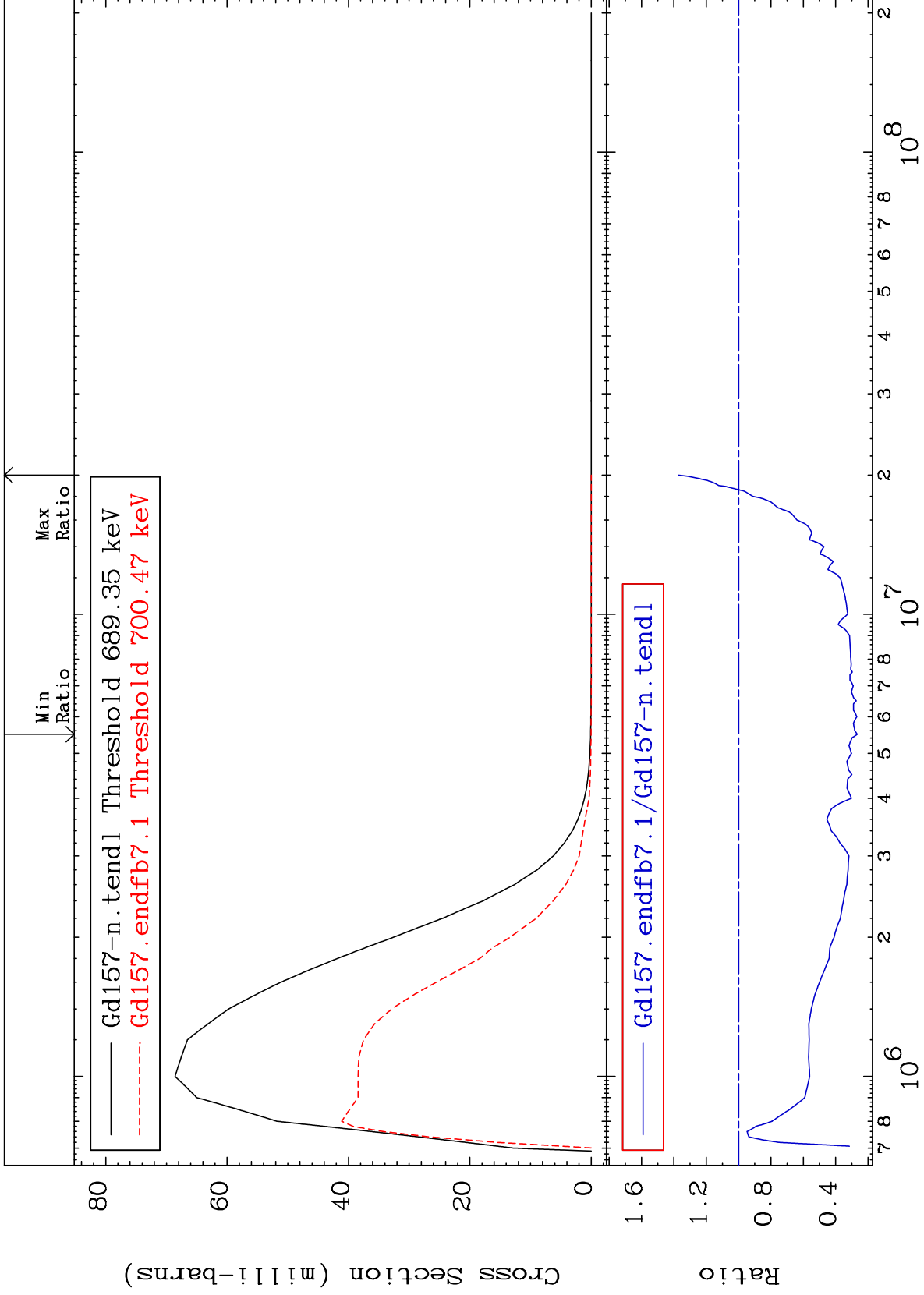
64-Gd-157
-71.47 To 749.0 %



MAT 6440

685.0 keV (n,n') Level
Cross Section

64-Gd-157
-73.37 To 37.07 %



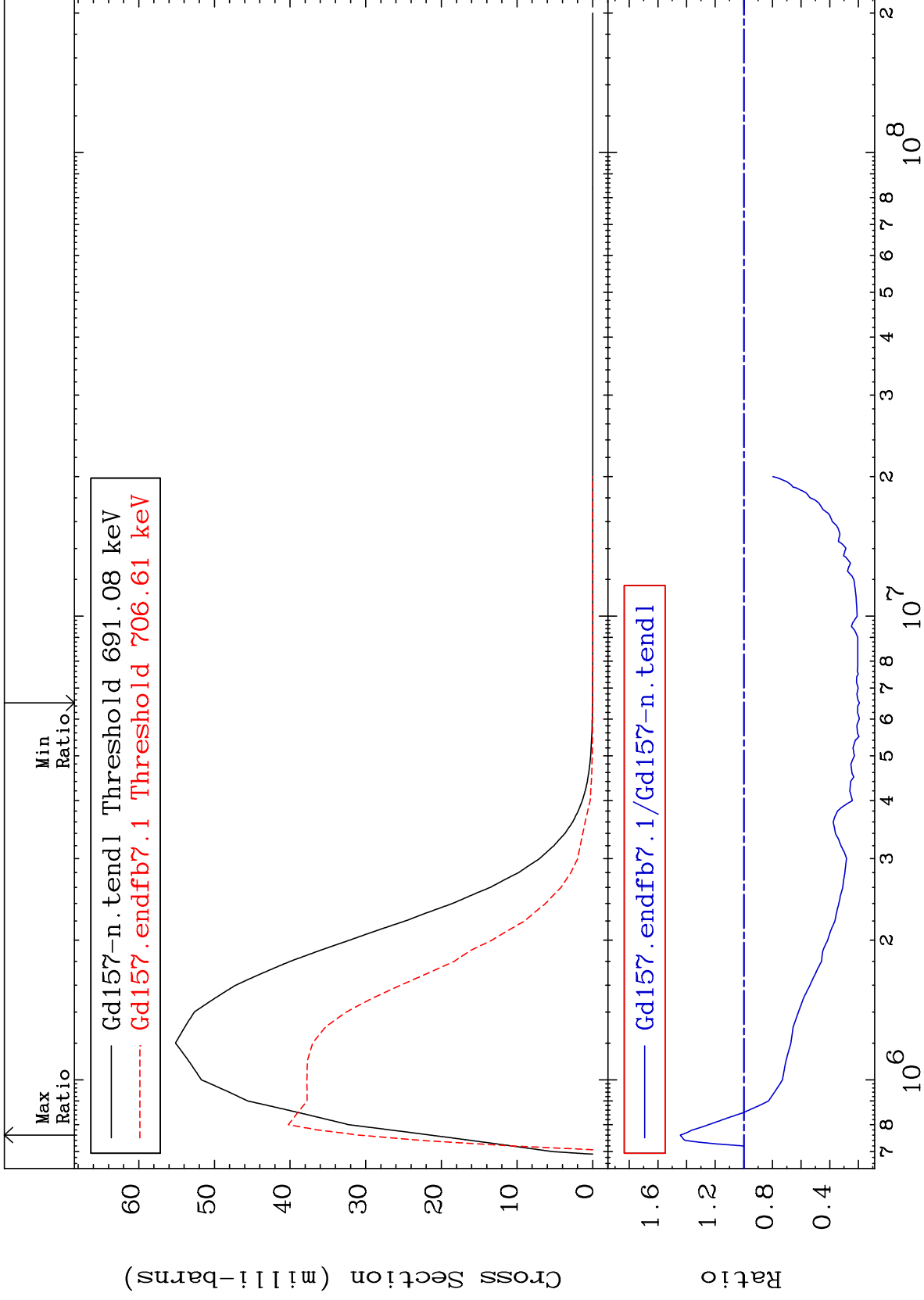
37

64-Gd-157

MAT 6440

686.7 keV (n,n') Level
Cross Section

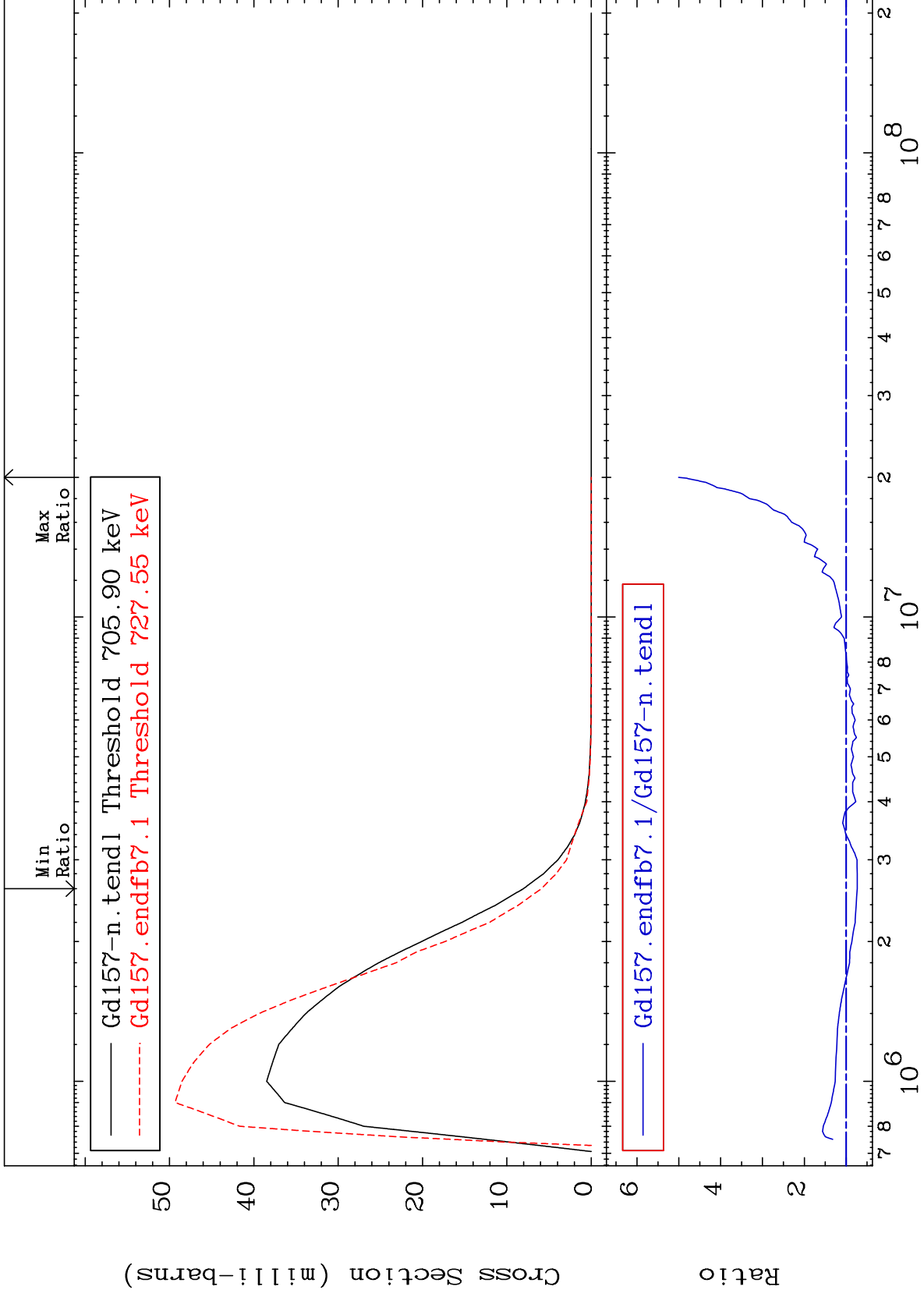
64-Gd-157
-80.74 To 44.32 %



MAT 6440

701.4 keV (n,n') Level
Cross Section

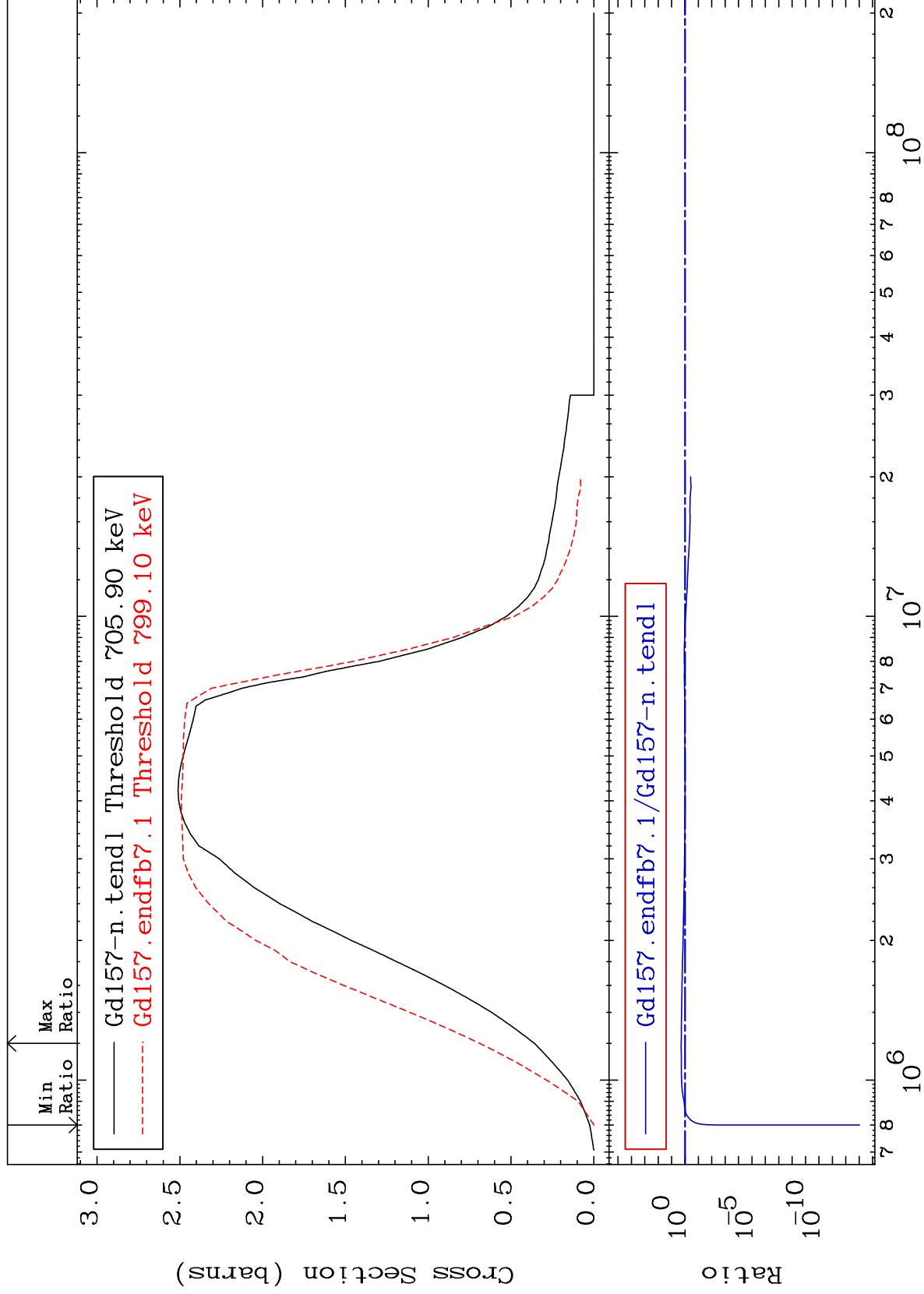
64-Gd-157
-26.52 To 400.5 %



MAT 6440

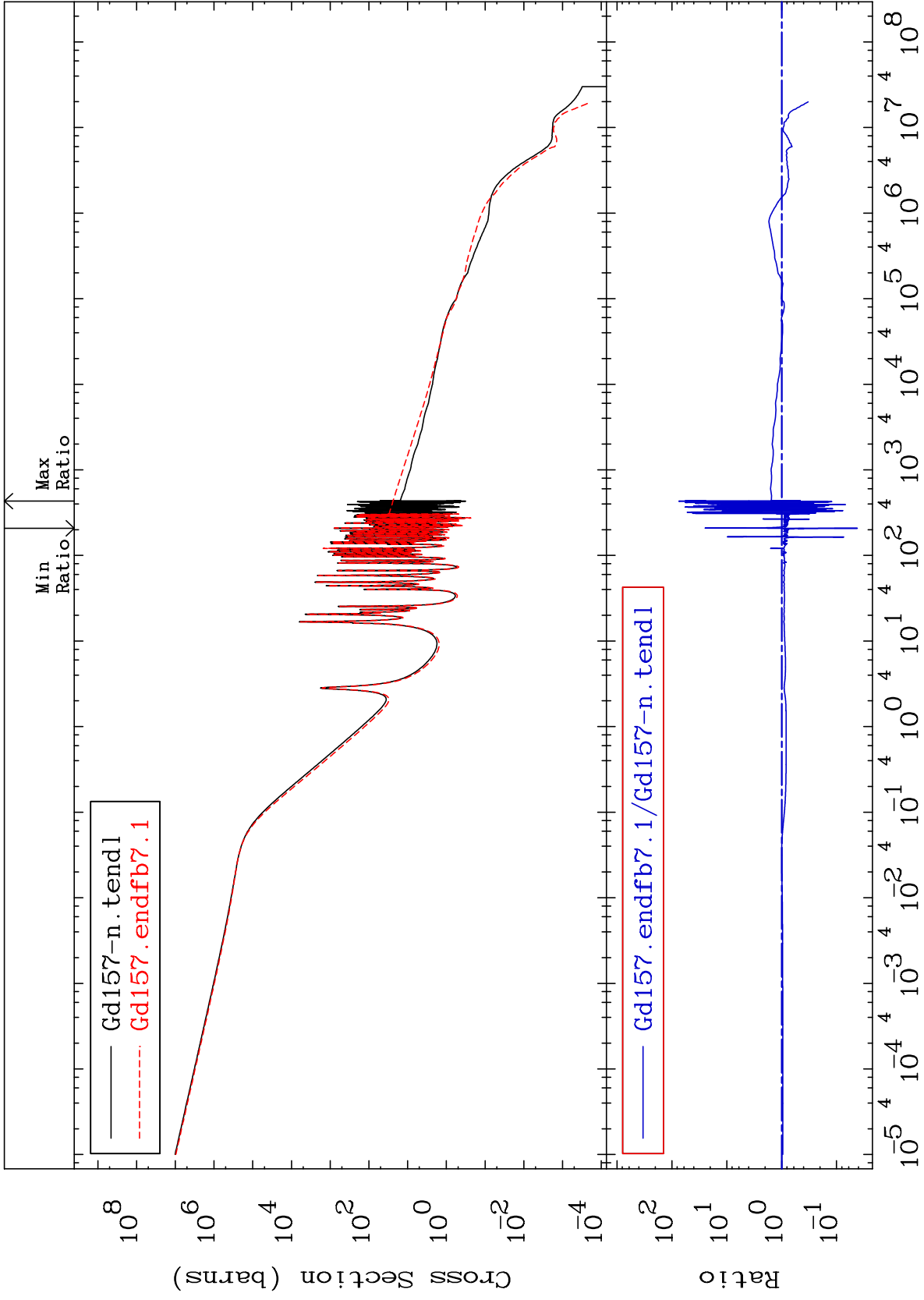
(n, n') Continuum
Cross Section

64-Gd-157
-100.0 To 92.17 %



MAT 6440

(n, γ)
Cross Section
64-Gd-157
-95.80 To 7430. %



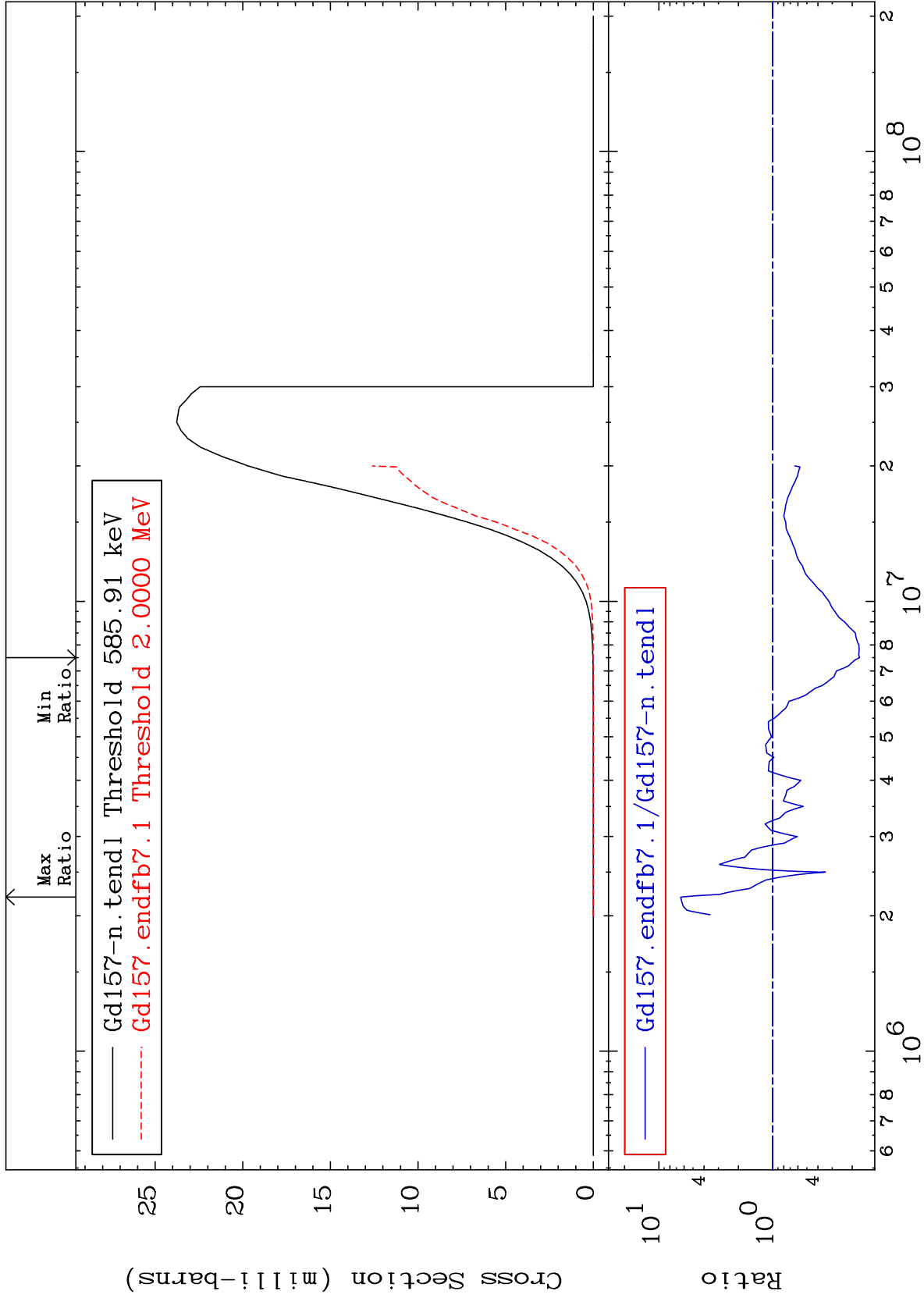
MAT 6440

(n,p)

64-Gd-157

Cross Section

-82.75 To 541.3 %



42

64-Gd-157

64-Gd-157

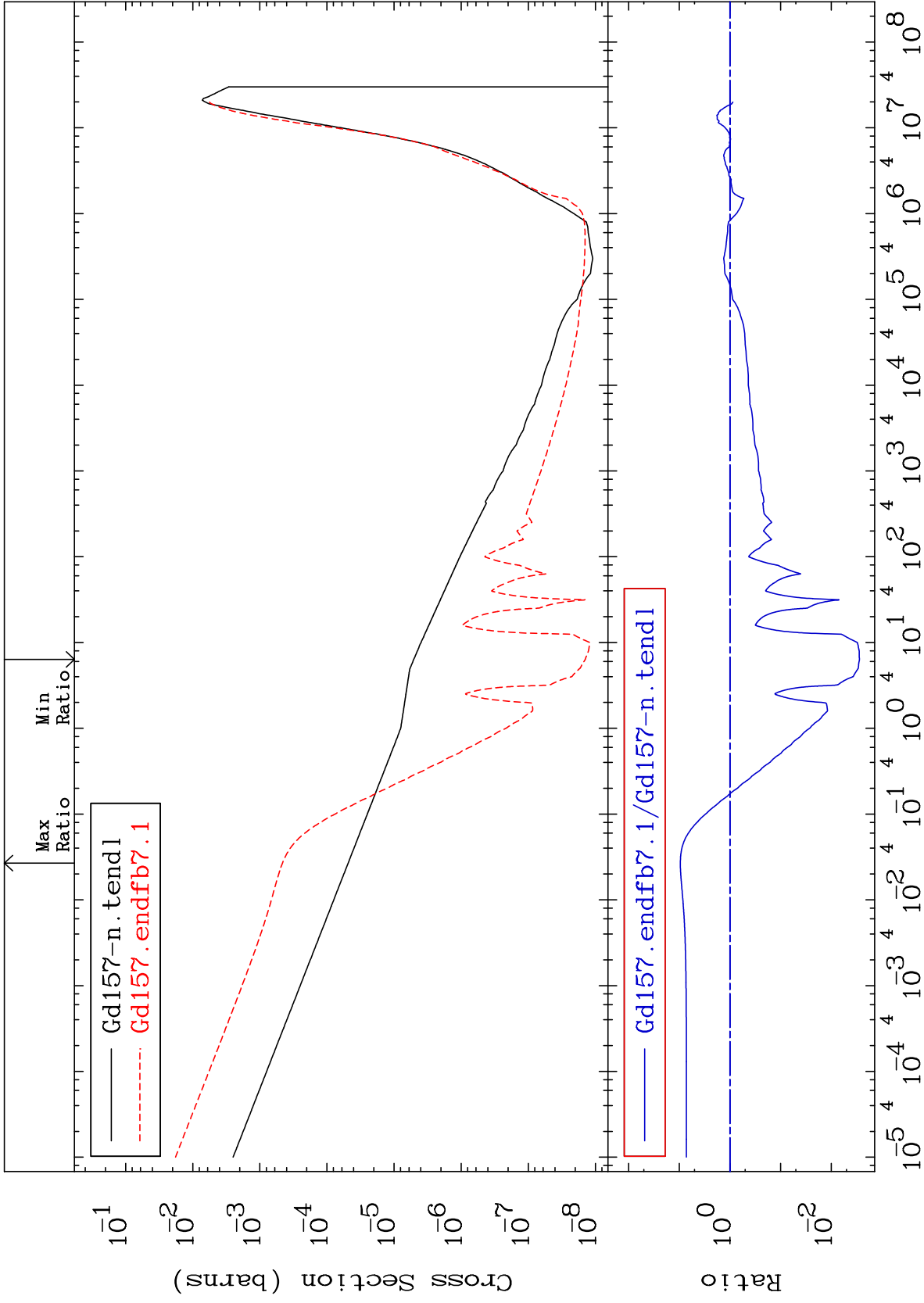
MAT 6440

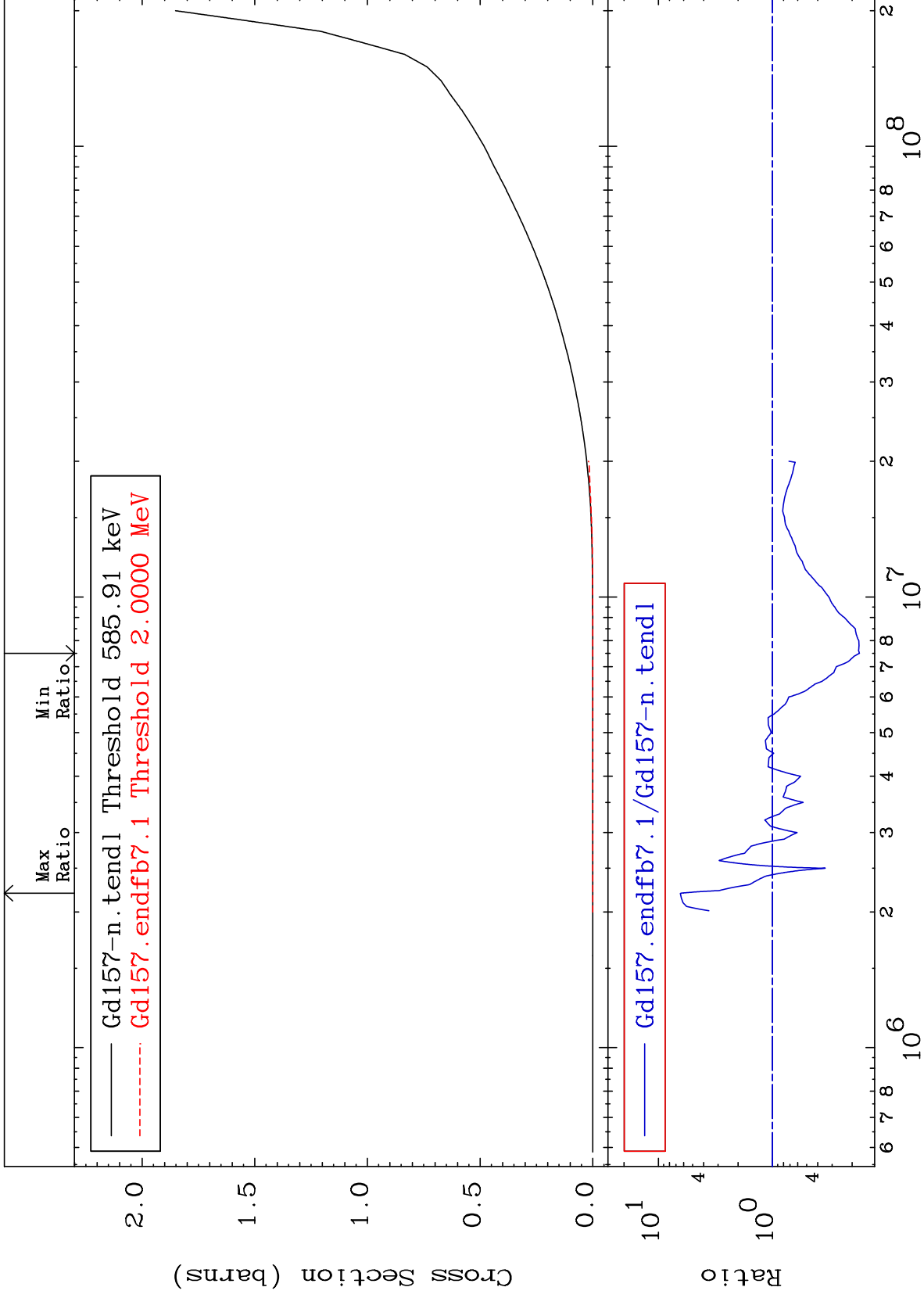
(n, α)

64-Gd-157

Cross Section

-99.72 To 851.0 %

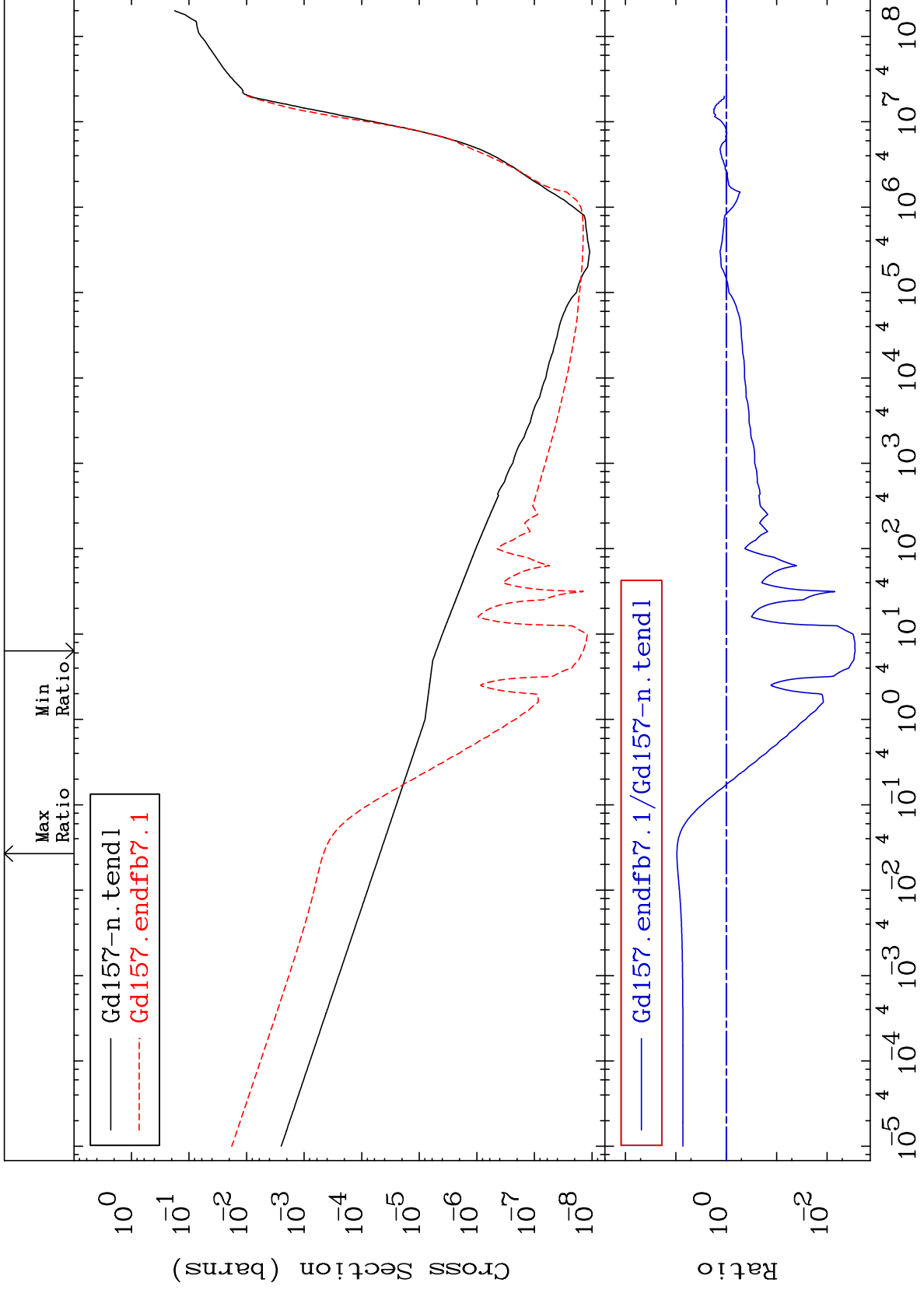




MAT 6440

He-4 Production
Cross Section

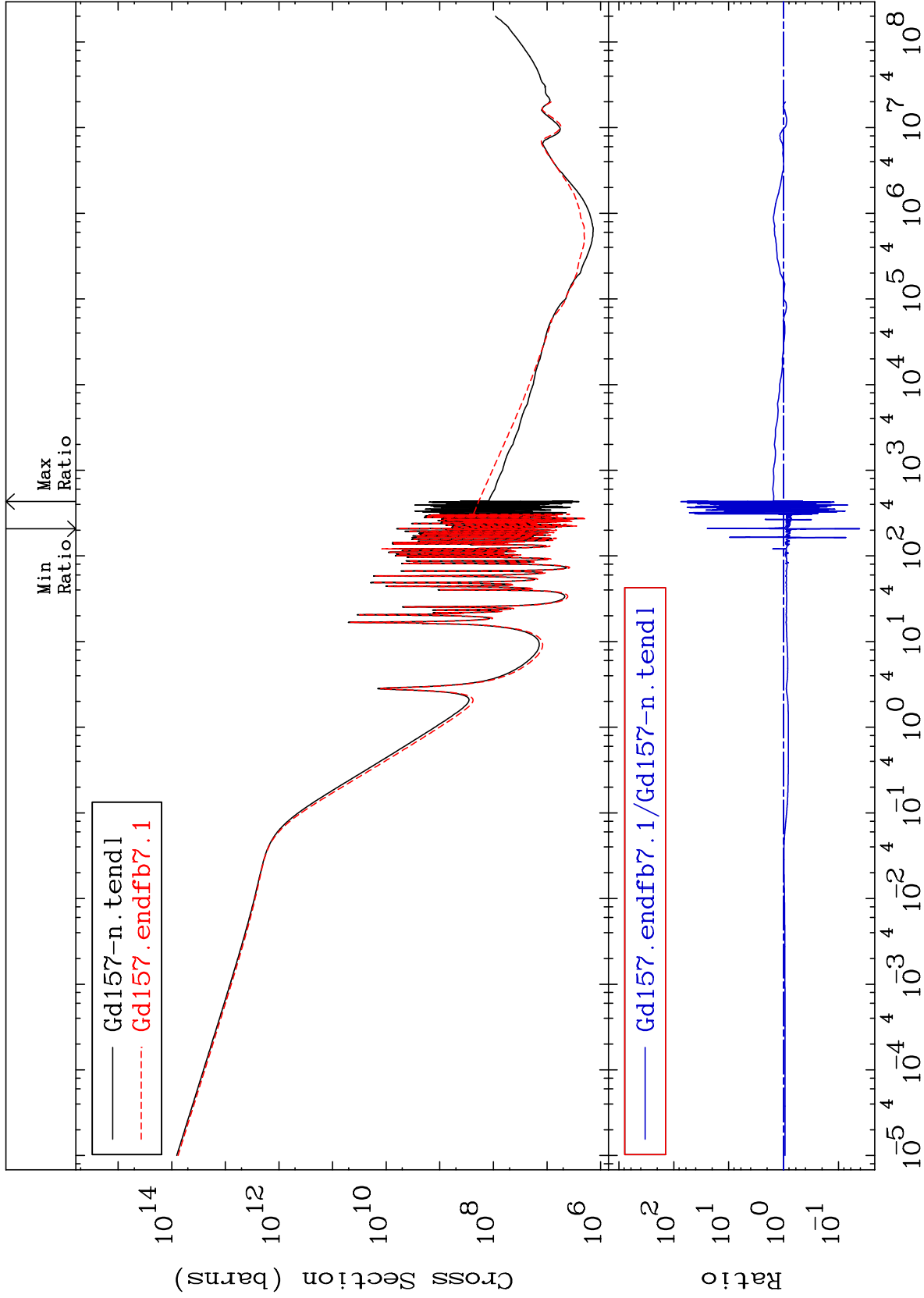
64-Gd-157
-99.72 To 851.0 %



45

Incident Energy (eV)

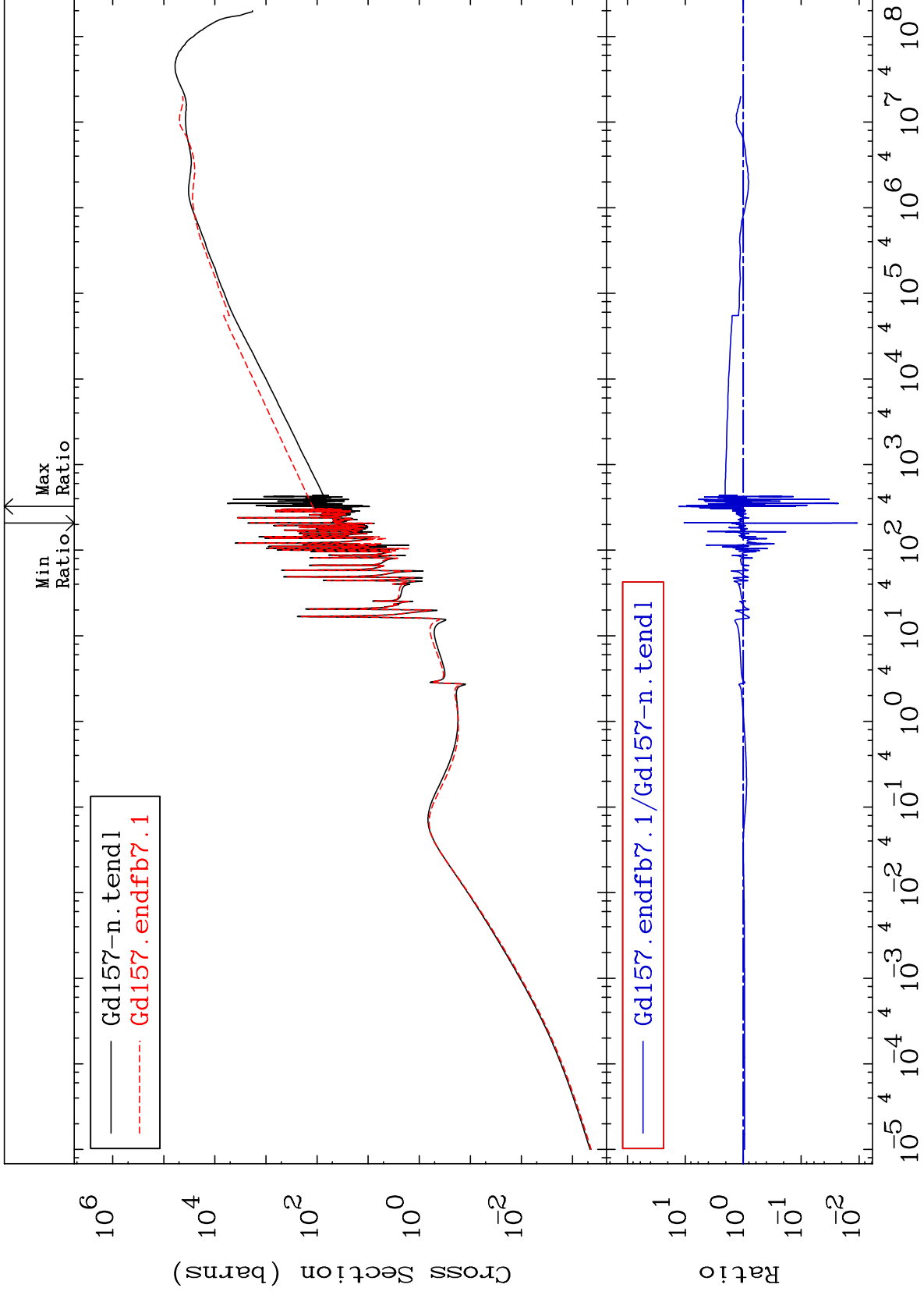
64-Gd-157

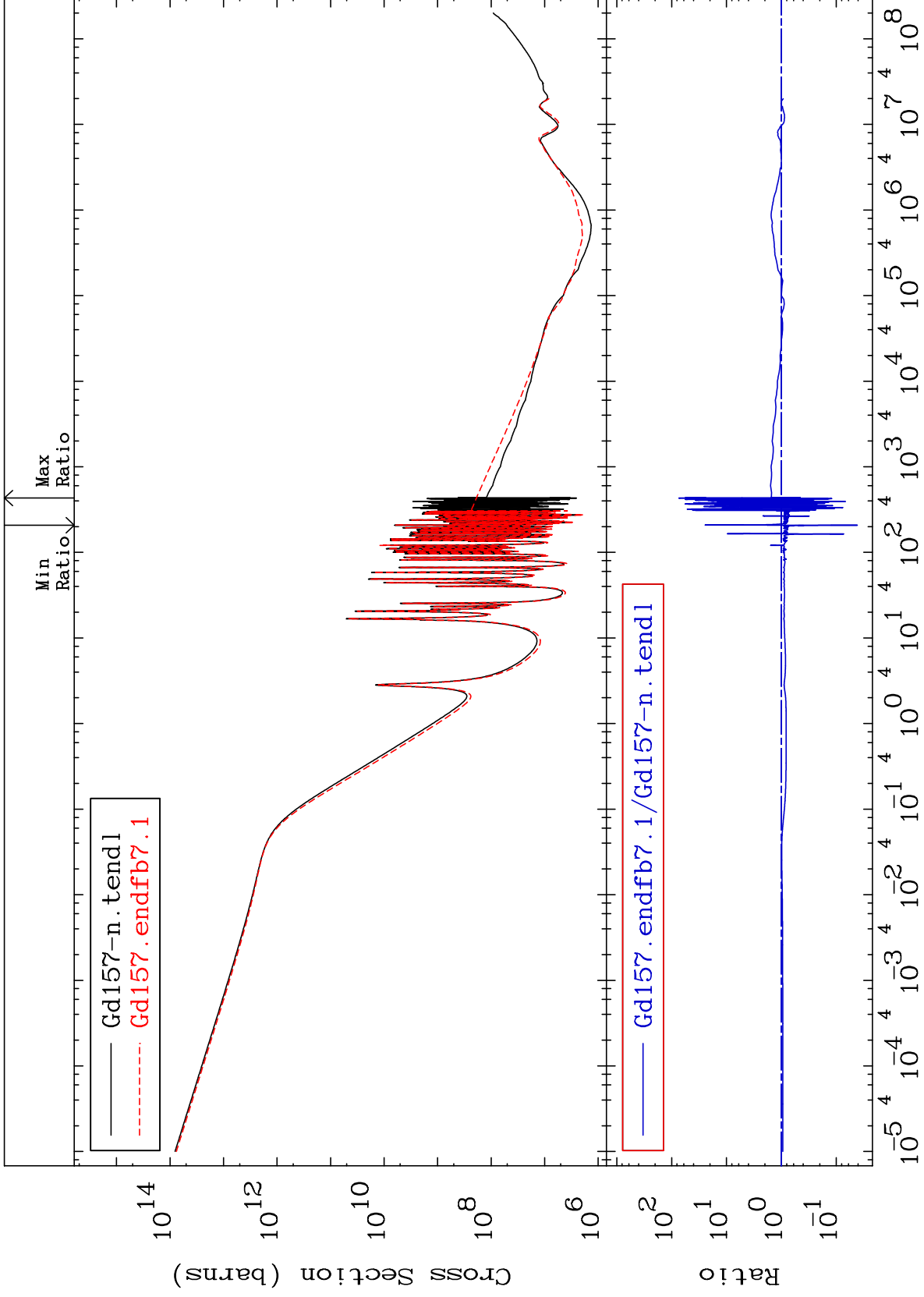


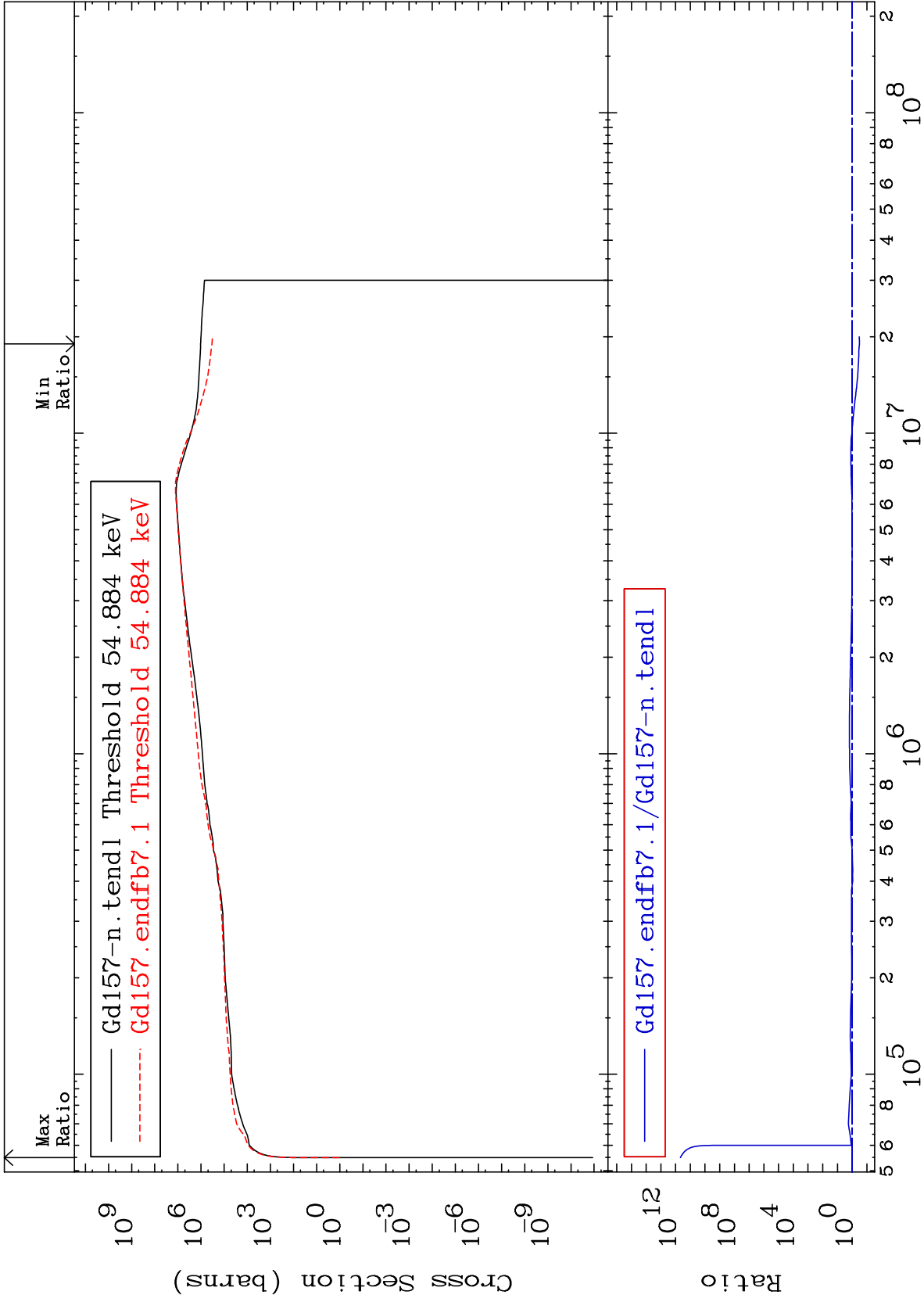
MAT 6440

Kerma elastic
Cross Section

64-Gd-157
-98.93 To 1203. %



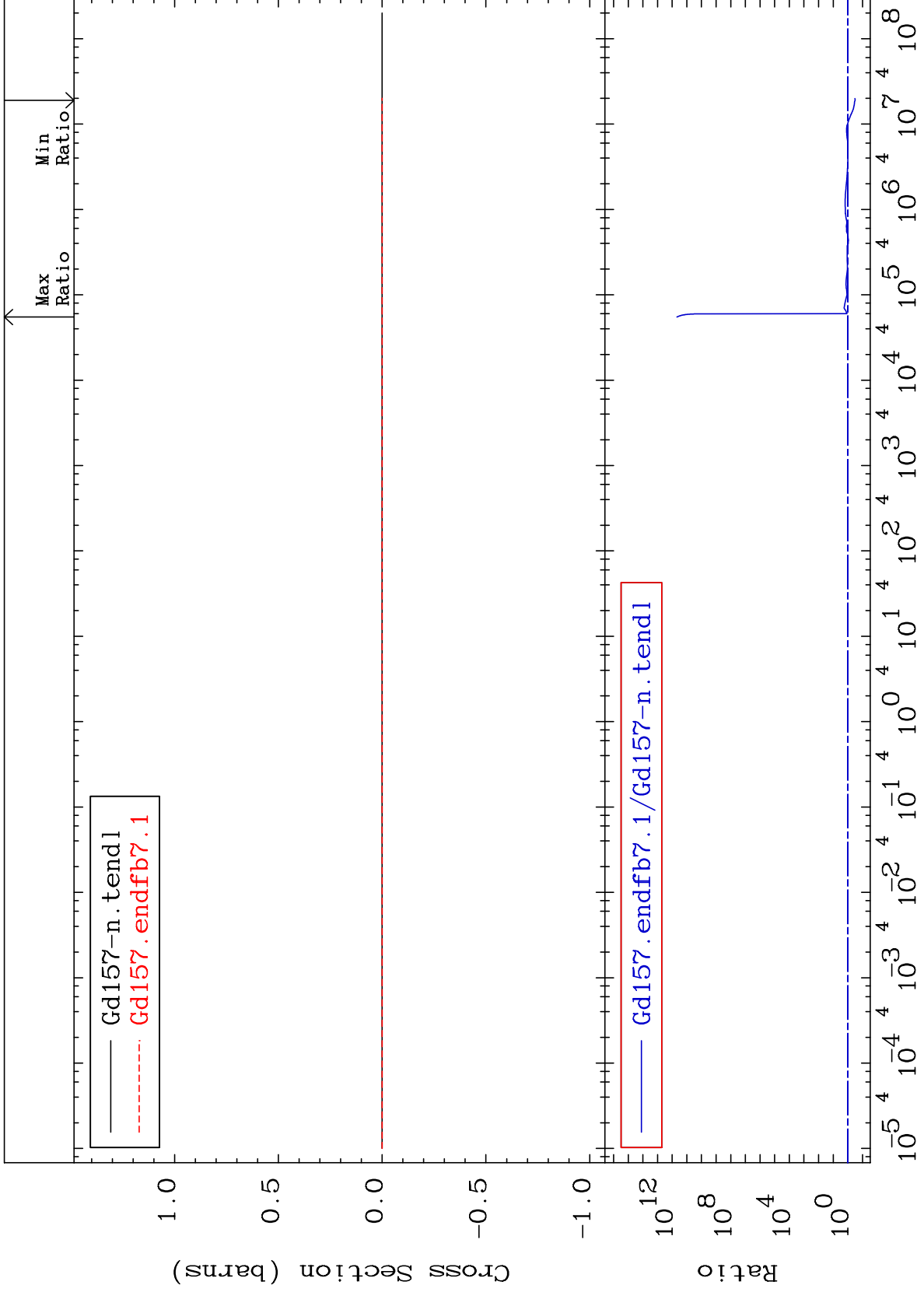




MAT 6440

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

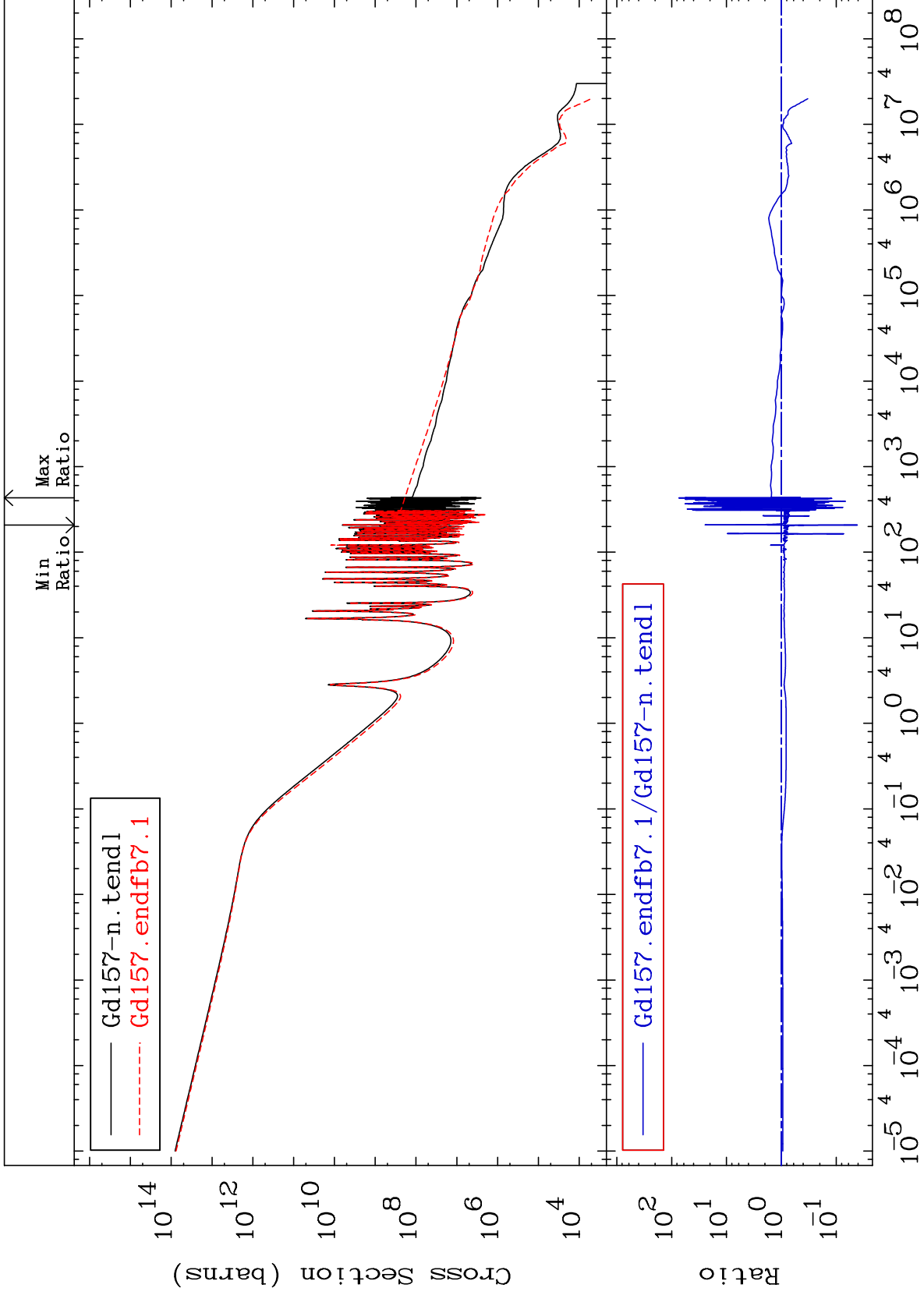
64-Gd-157
-68.01 To 9999. %



MAT 6440

Kerma capture (mt102)
Cross Section

64-Gd-157
-95.84 To 7355. %

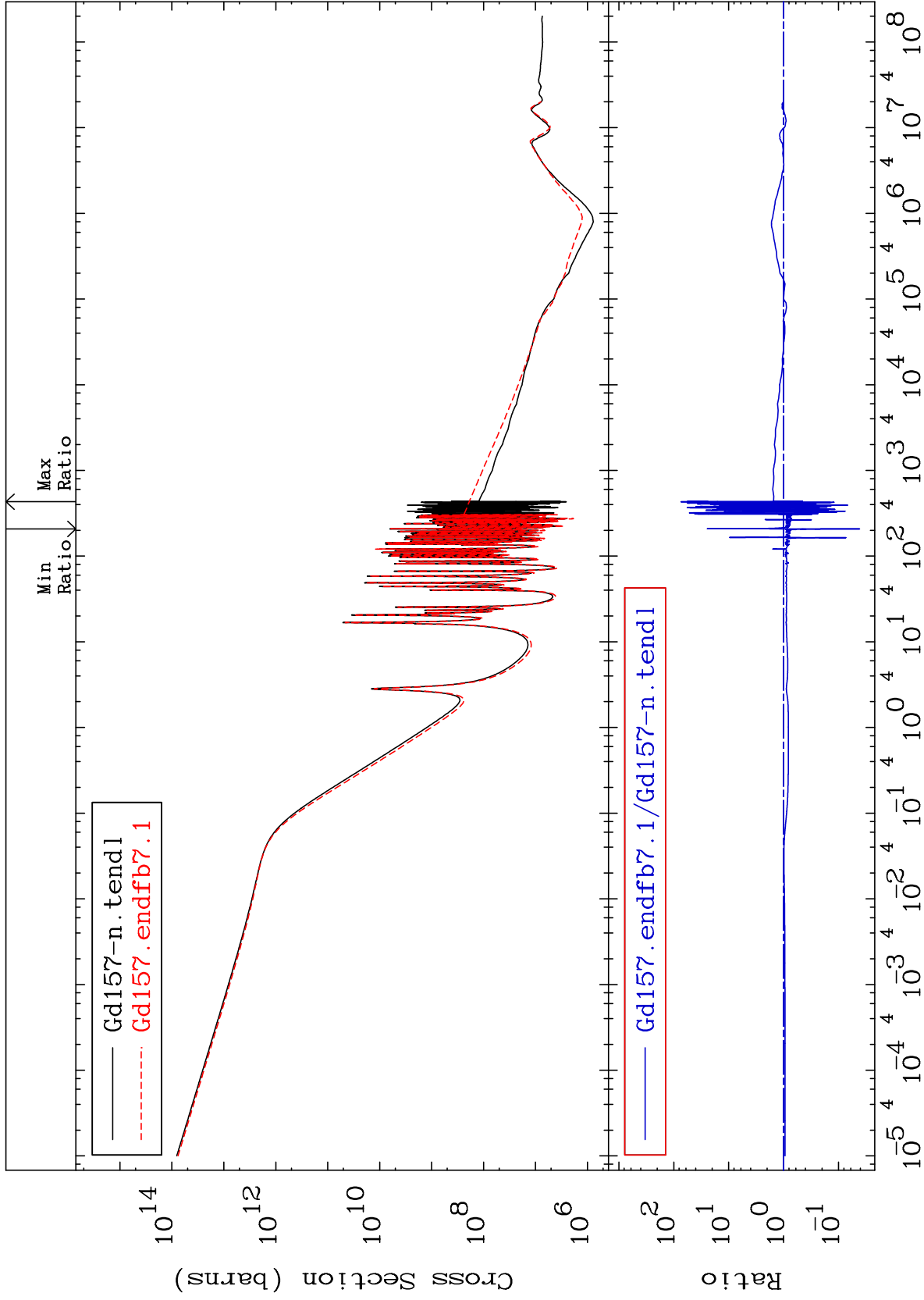


MAT 6440

Total photon (eV-barns)
Cross Section

64-Gd-157

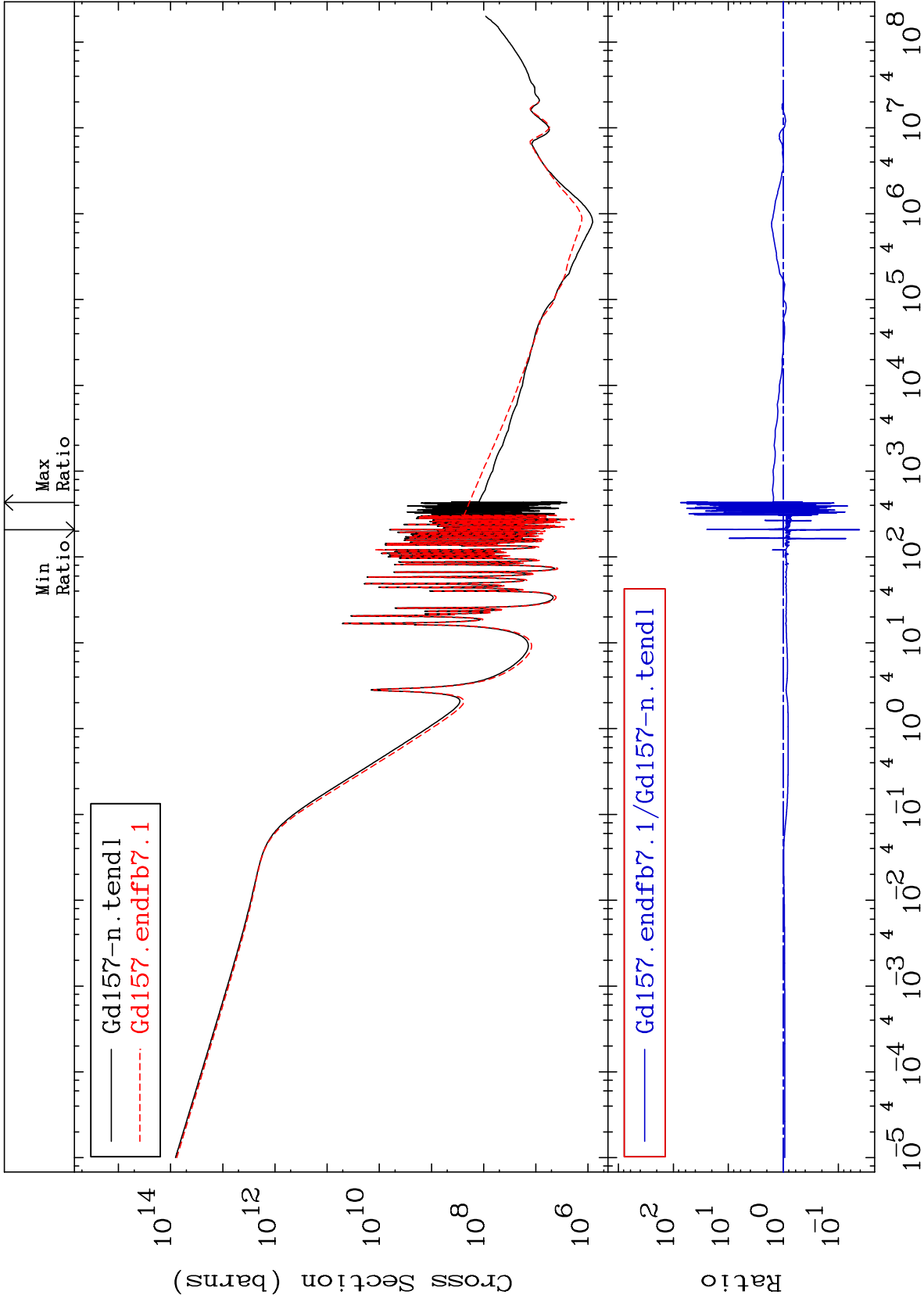
-95.84 To 7355. %

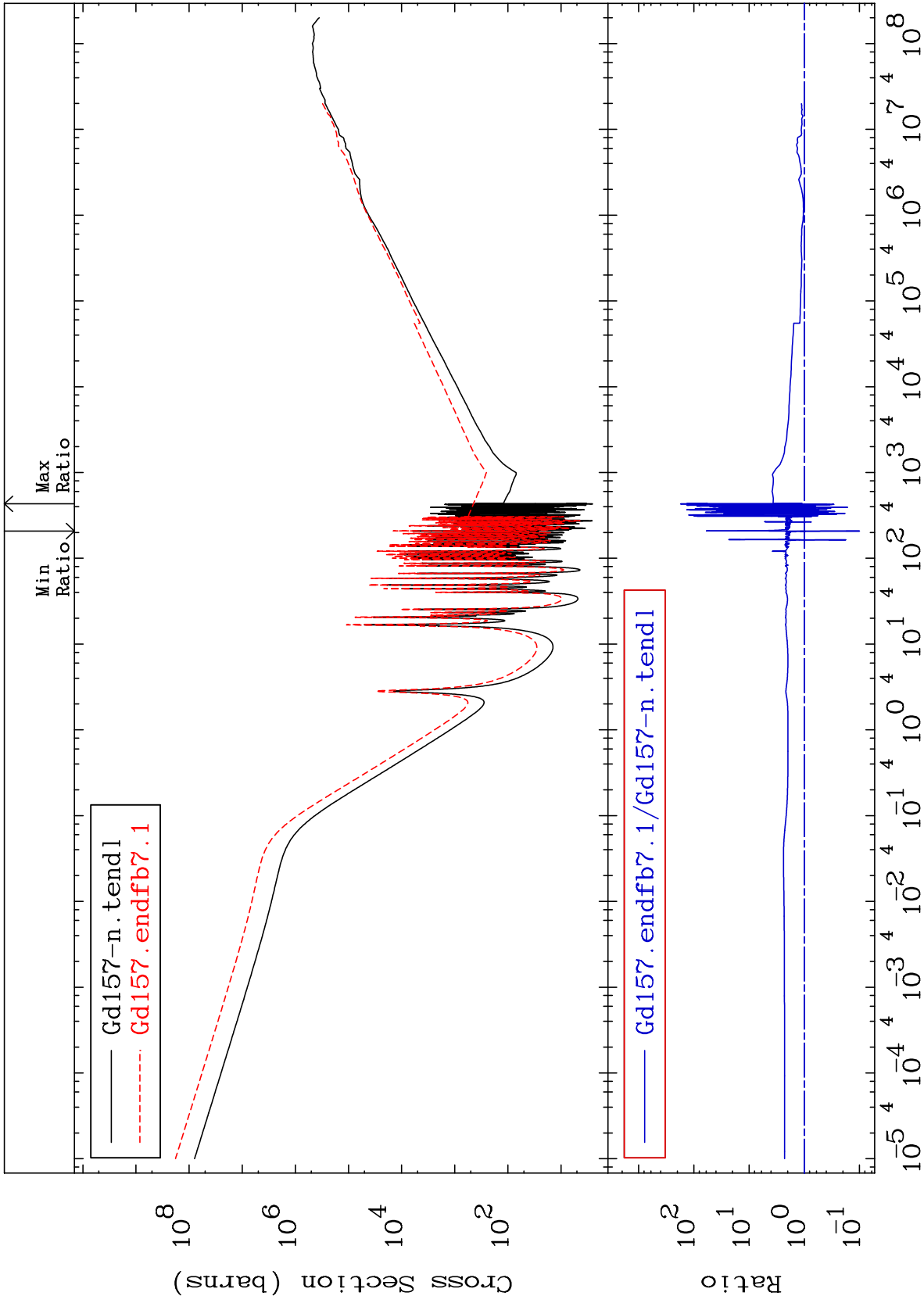


52

Incident Energy (eV)

64-Gd-157

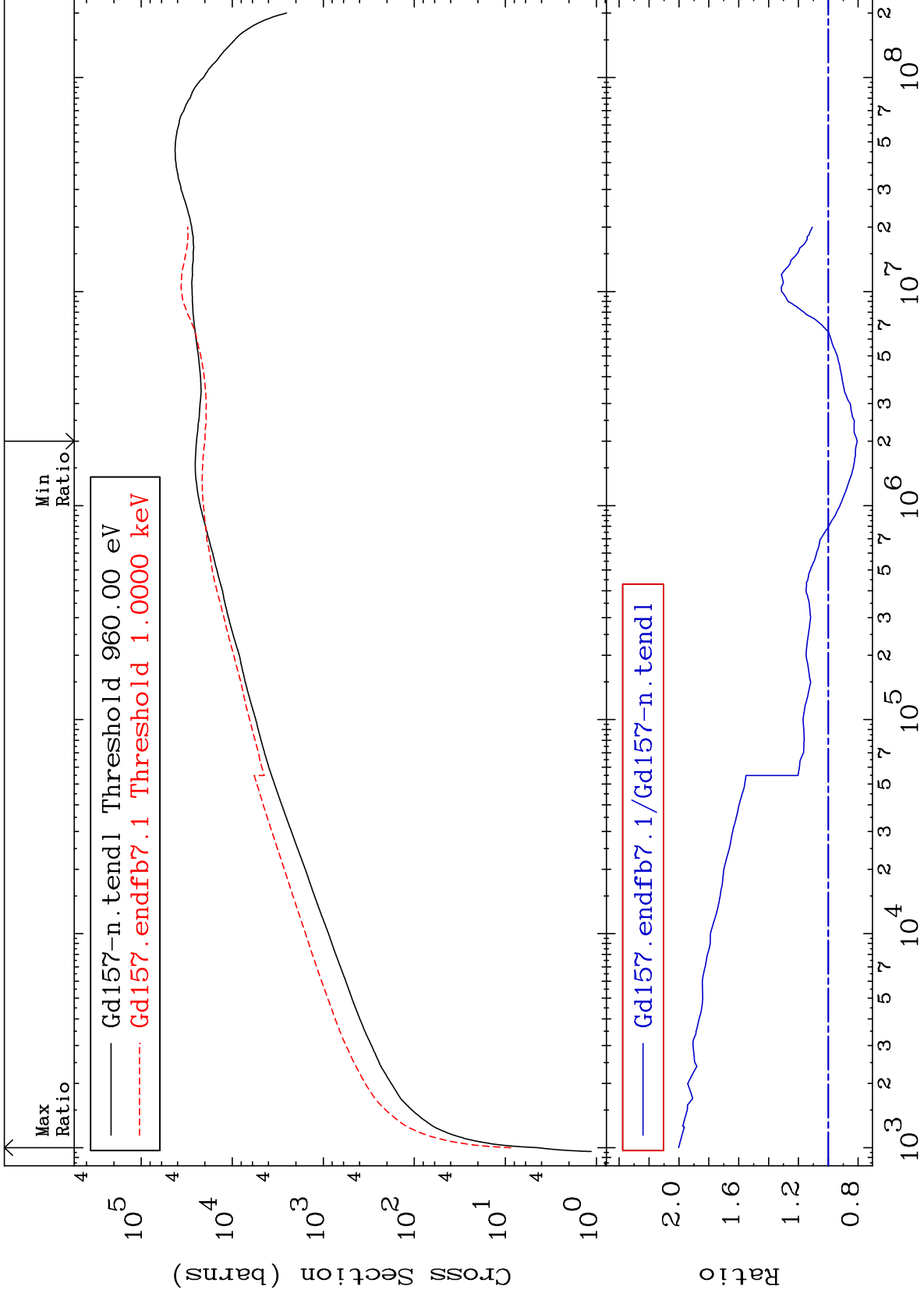




MAT 6440

Dpa elastic (mt2)
Cross Section

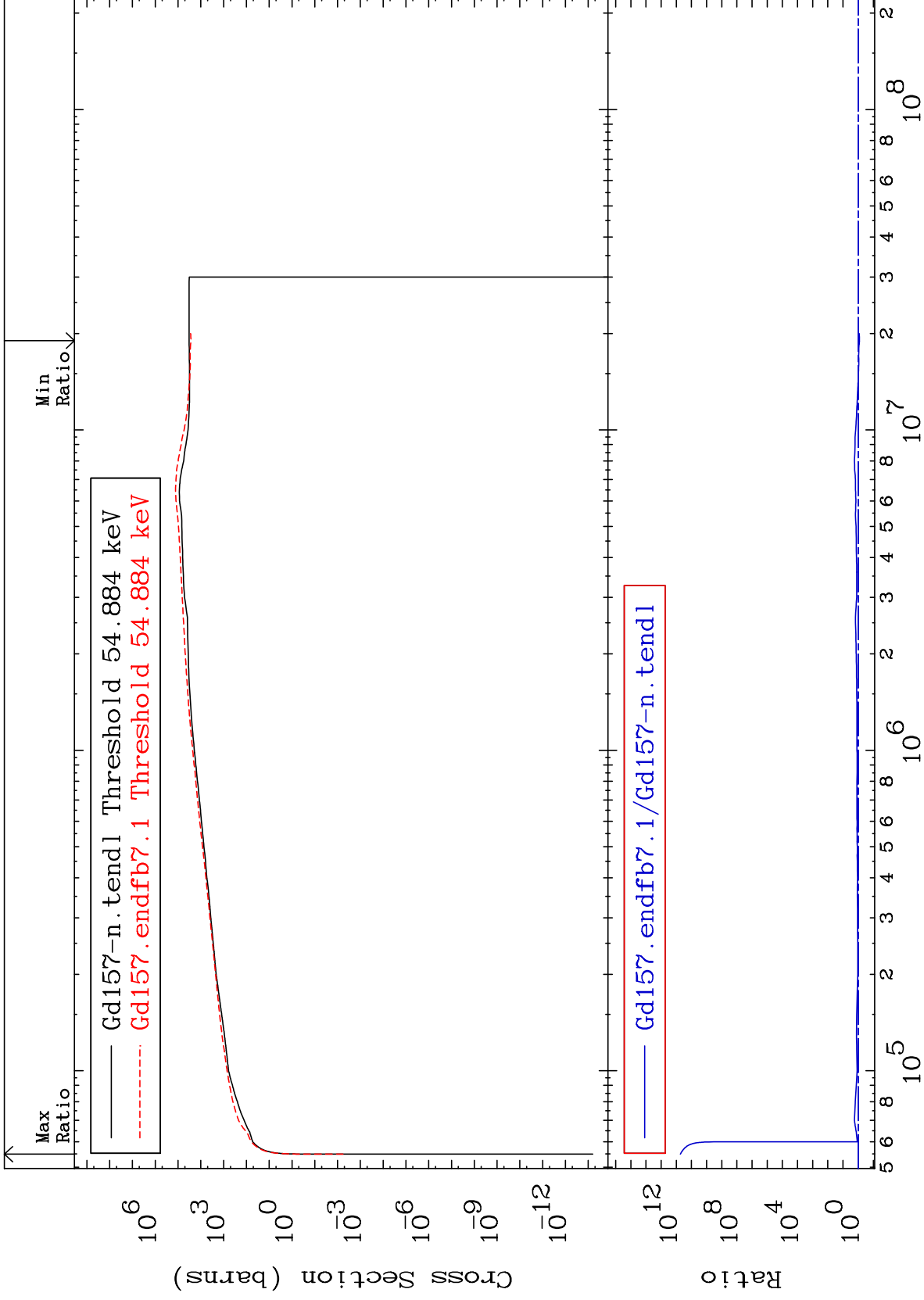
64-Gd-157
-19.39 To 100.2 %



55

Incident Energy (eV)

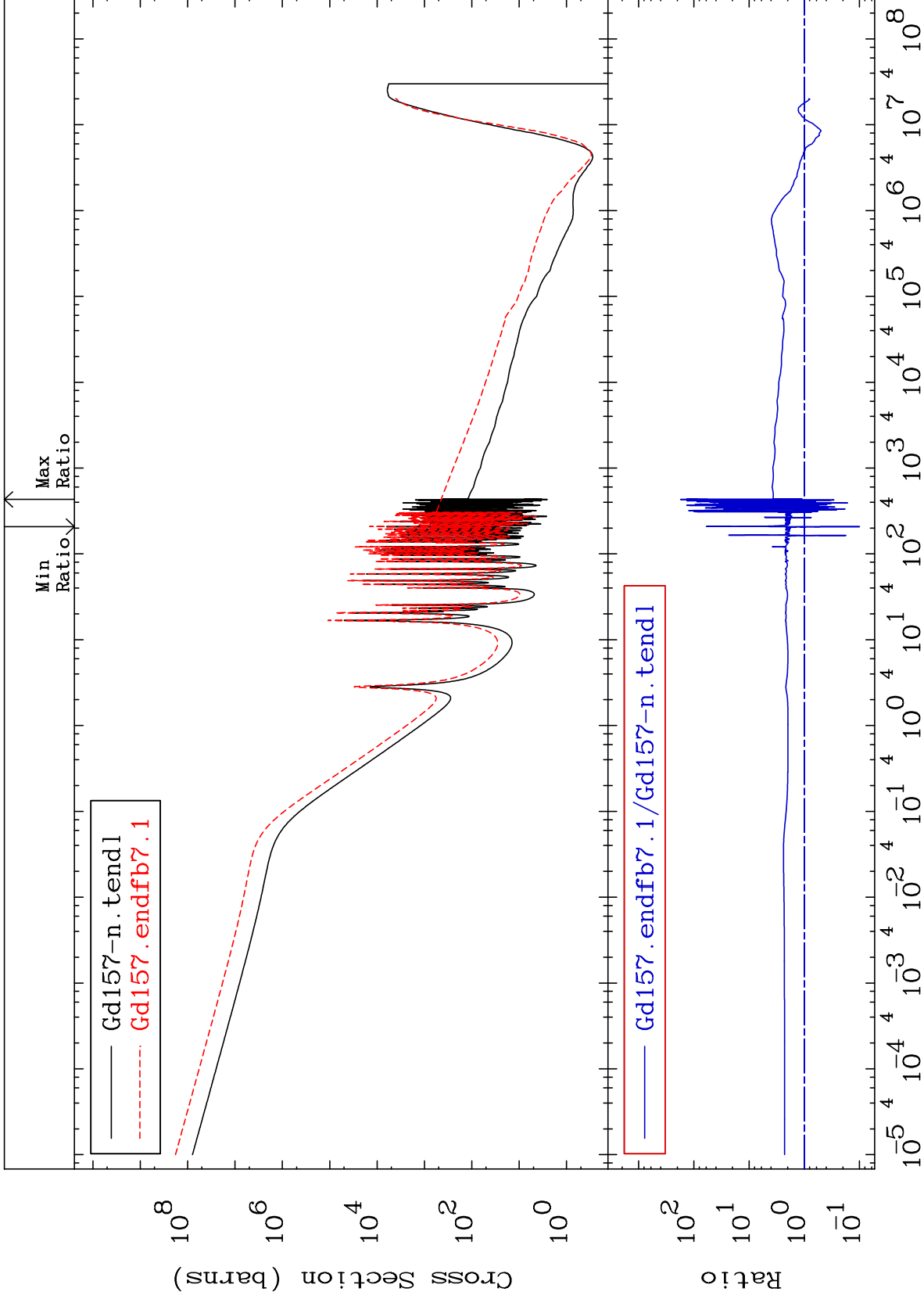
64-Gd-157



MAT 6440

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-157
-89.97 To 9999. %



57

Incident Energy (eV)

64-Gd-157