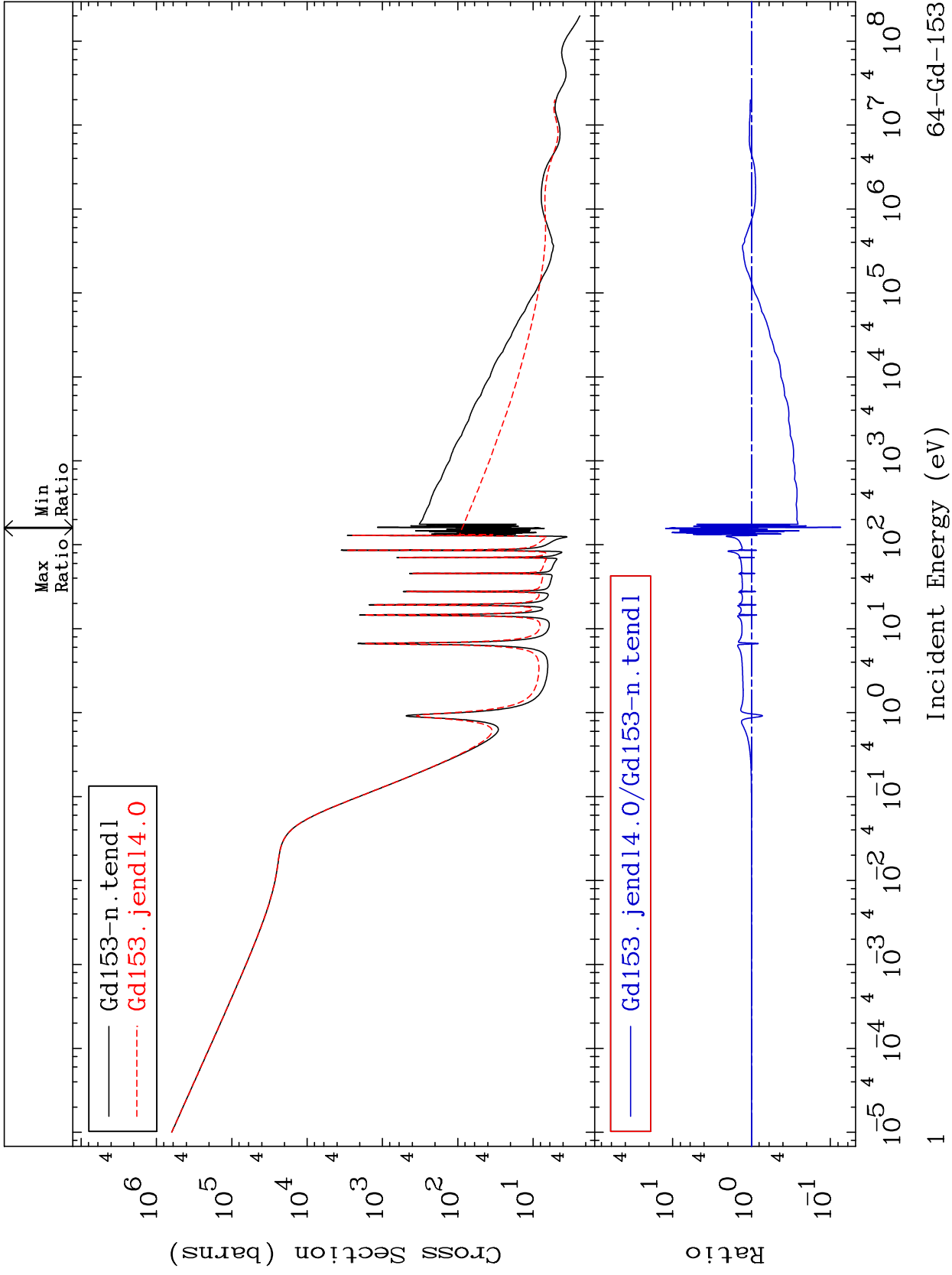


MAT 6428

Total Cross Section
64-Gd-153
-92.60 To 1134. %



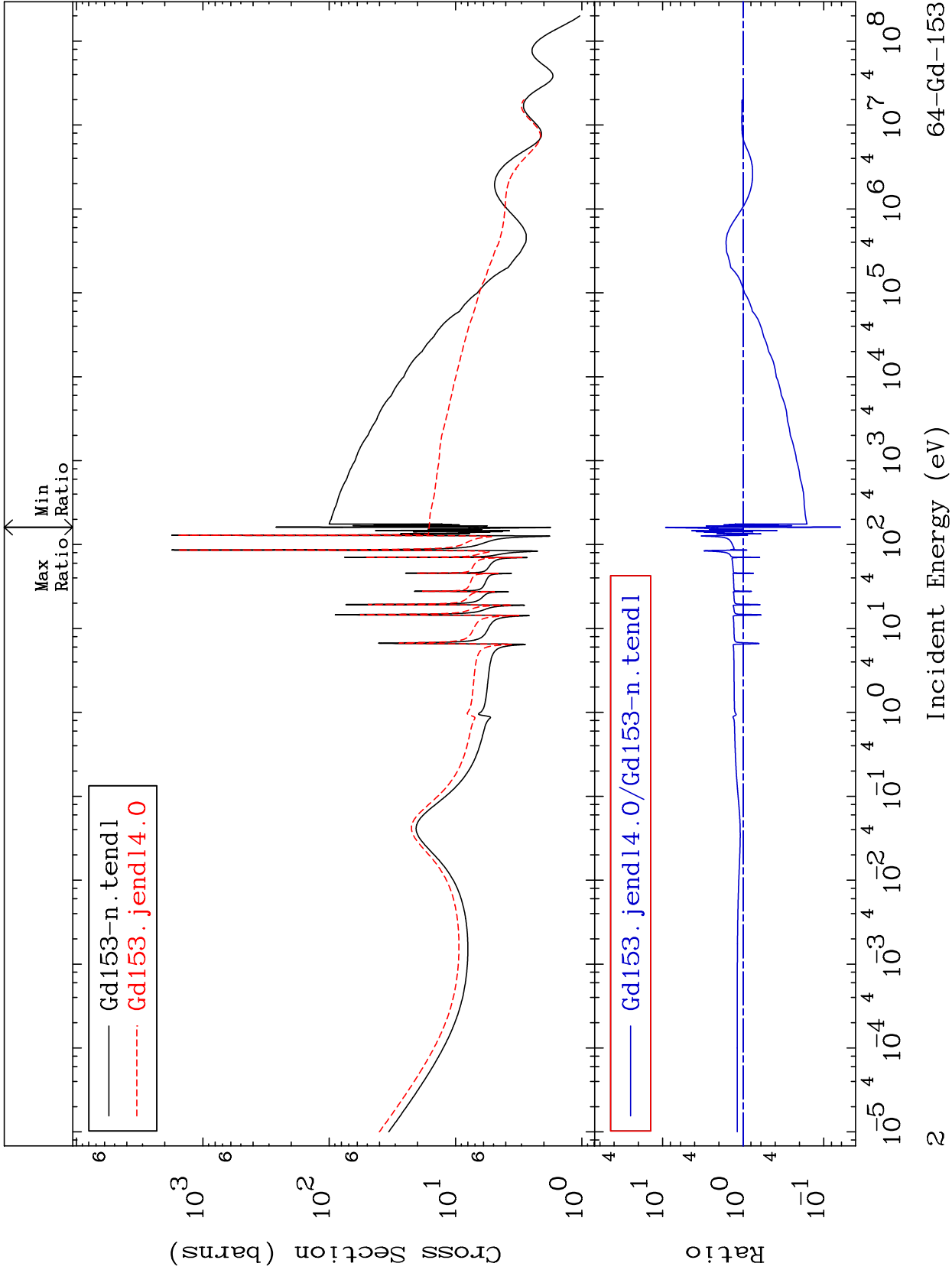
64-Gd-153

Incident Energy (eV)

MAT 6428

Elastic
Cross Section

64-Gd-153
-93.85 To 819.9 %



64-Gd-153

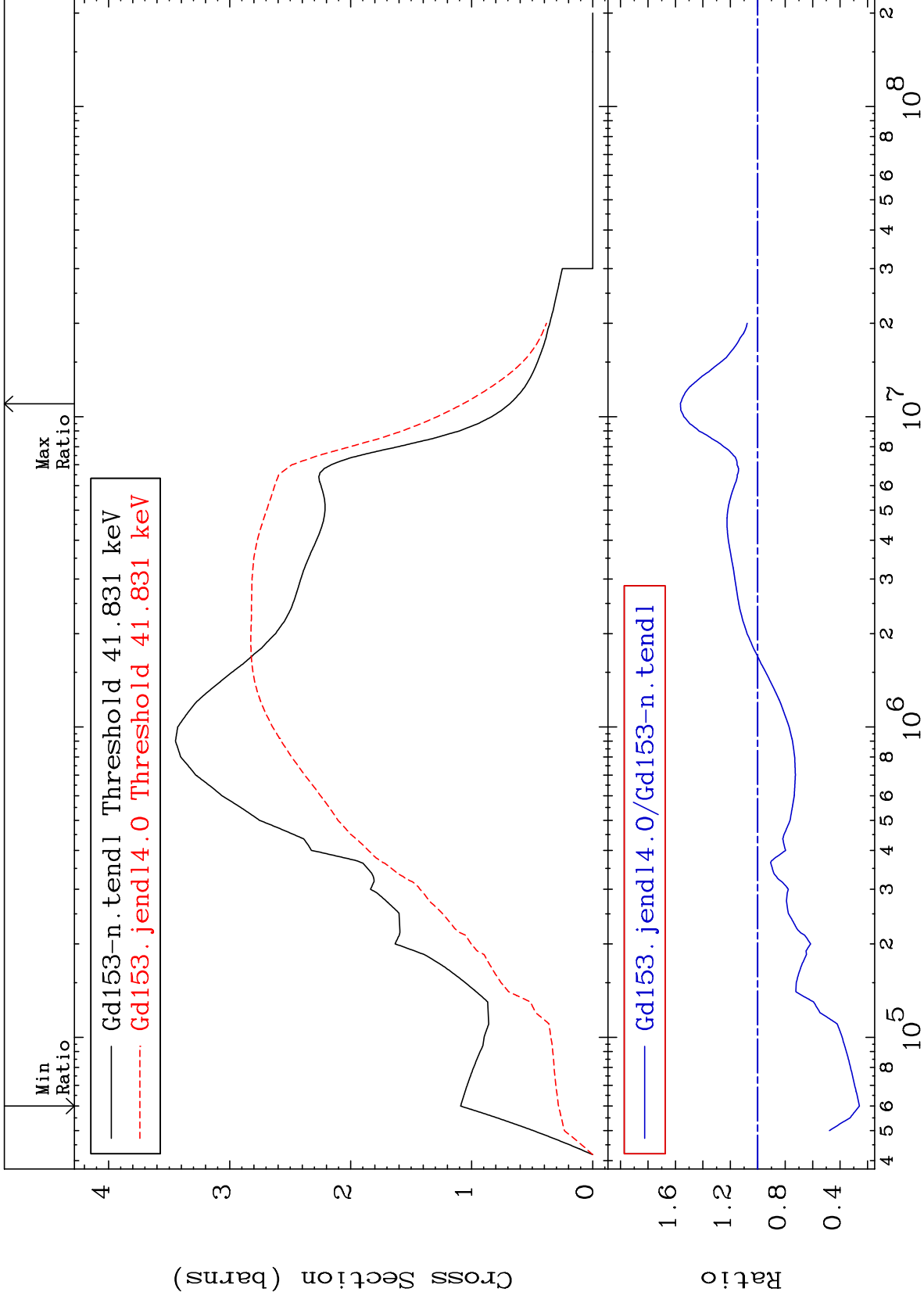
Incident Energy (eV)

2

MAT 6428

Inelastic
Cross Section

64-Gd-153
-74.10 To 56.40 %



3

Incident Energy (eV)

64-Gd-153

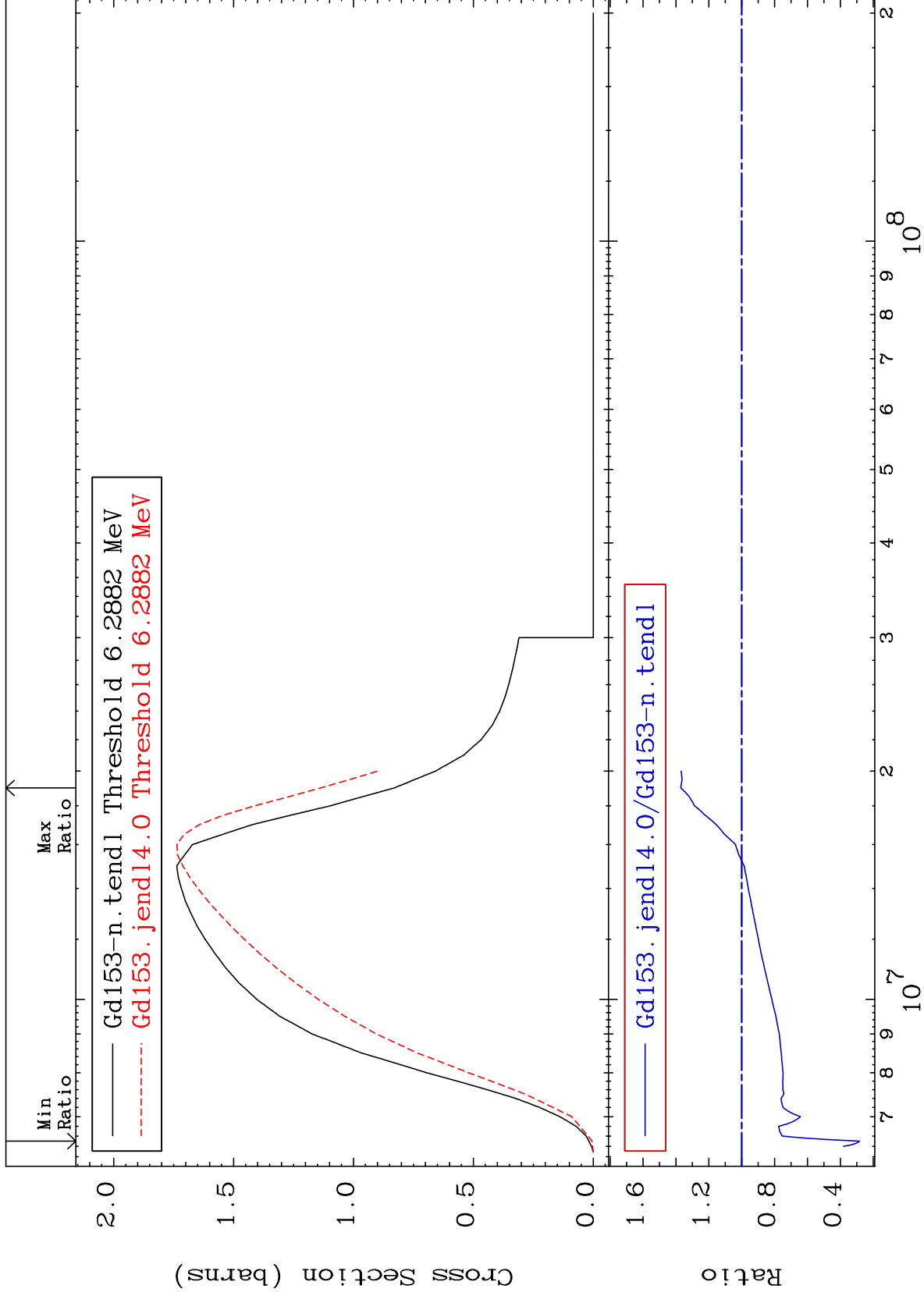
MAT 6428

(n,2n)

64-Gd-153

Cross Section

-71.68 To 37.09 %



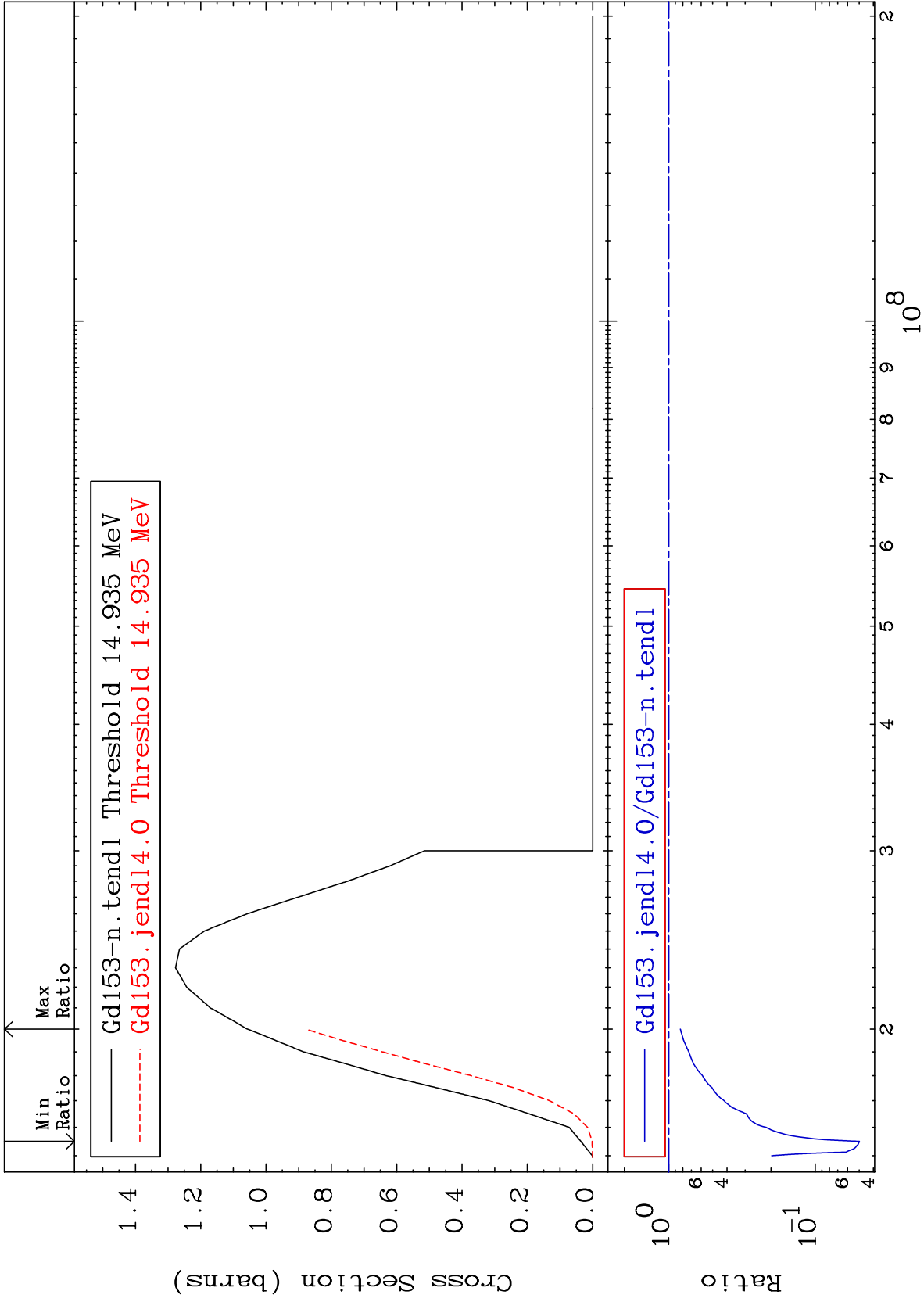
4

Incident Energy (eV)

64-Gd-153

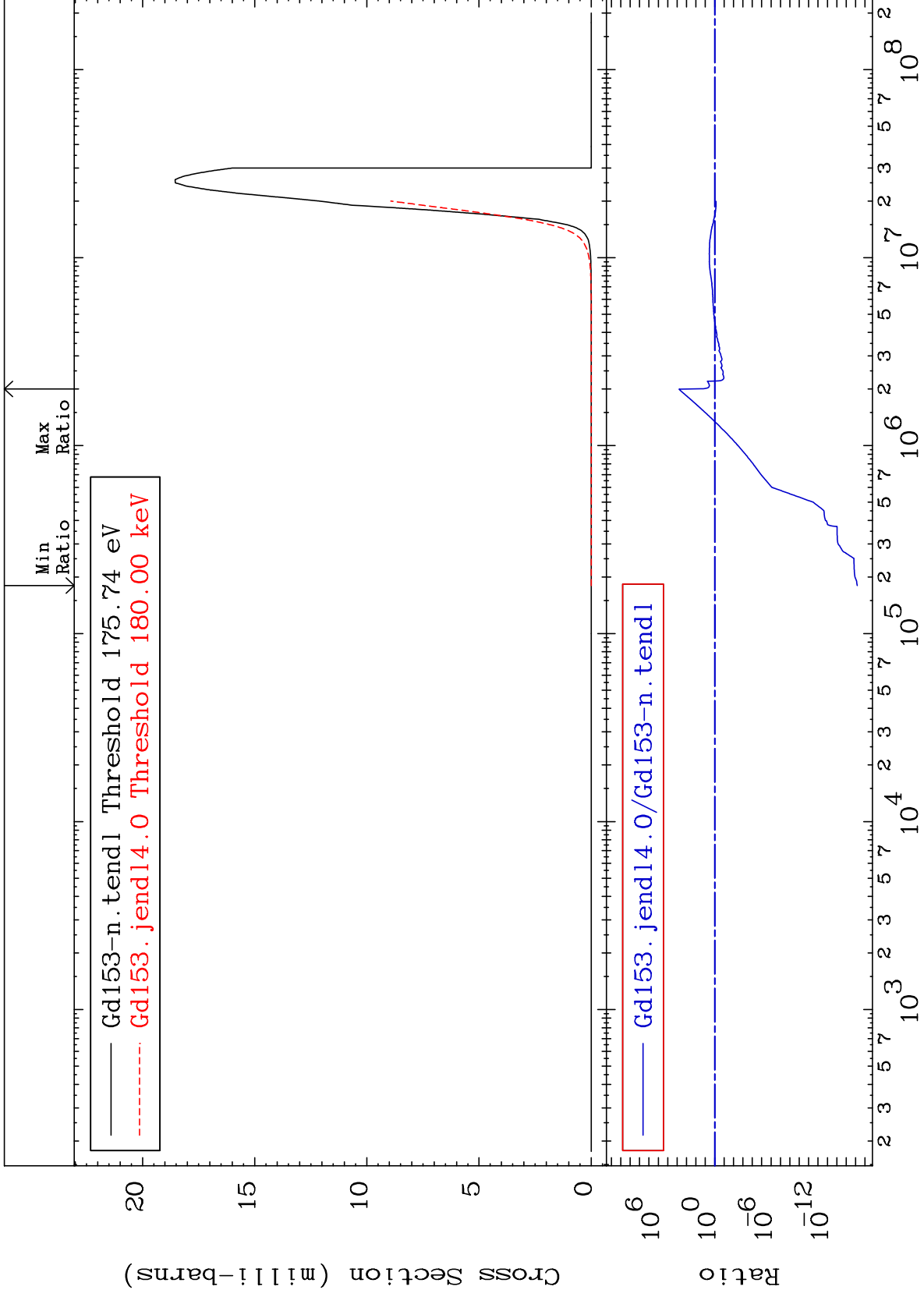
Cross Section

-95.02 To -16.85%



MAT 6428

(n, n') α
Cross Section
64-Gd-153
-100.0 To 9999. %



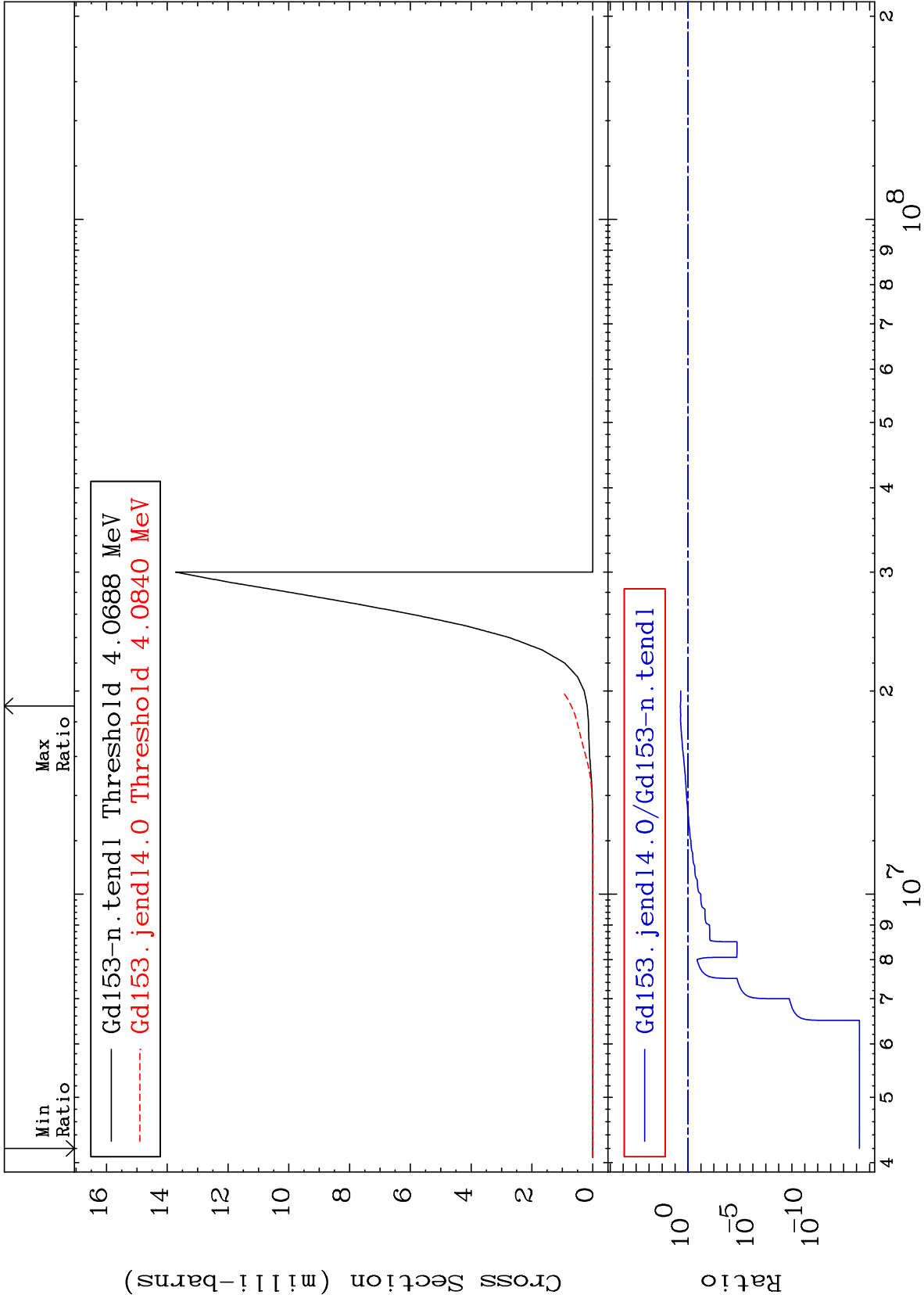
MAT 6428

(n,2n) α

64-Gd-153

Cross Section

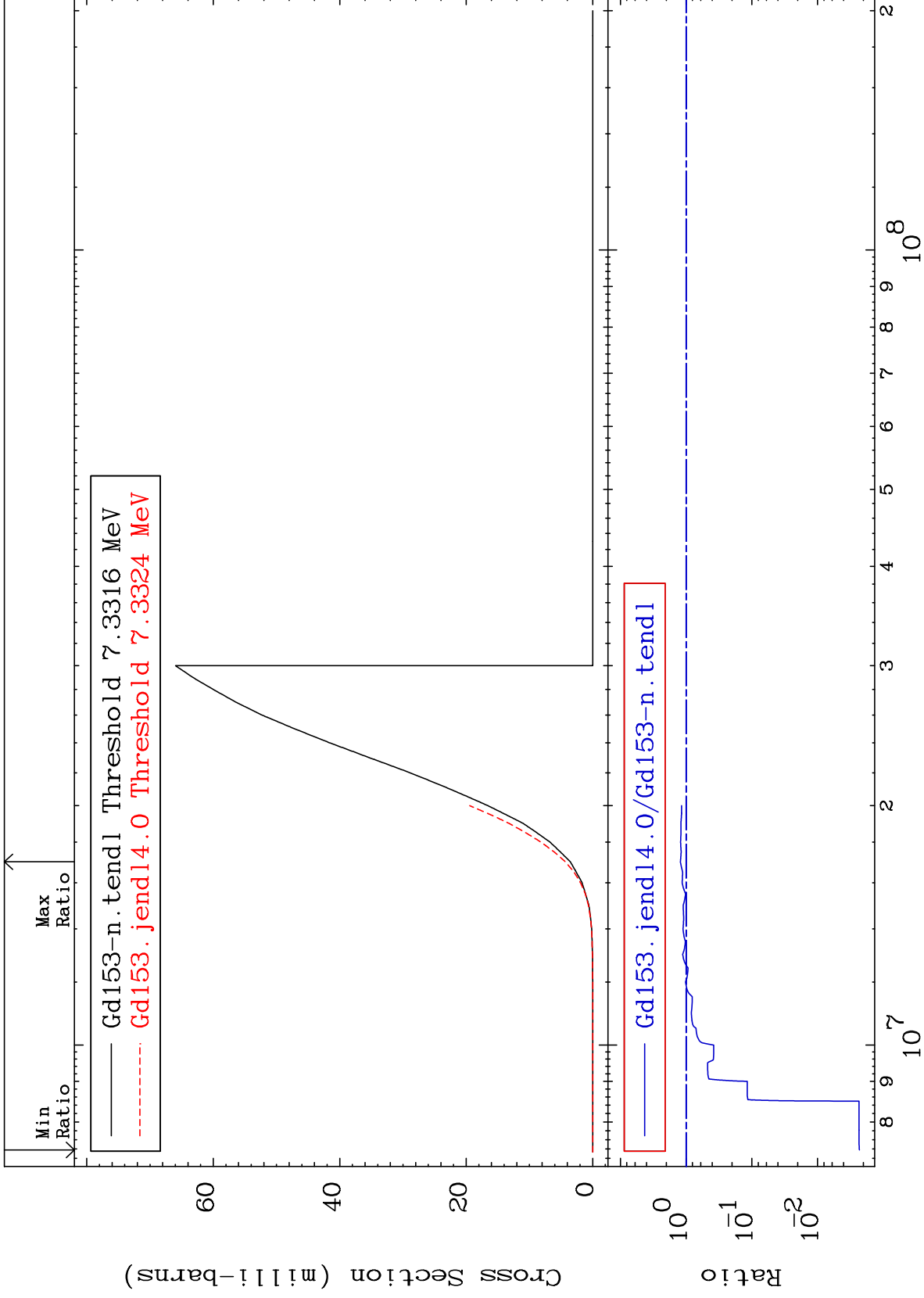
-100.0 To 289.9 %



MAT 6428

(n,n') p
Cross Section

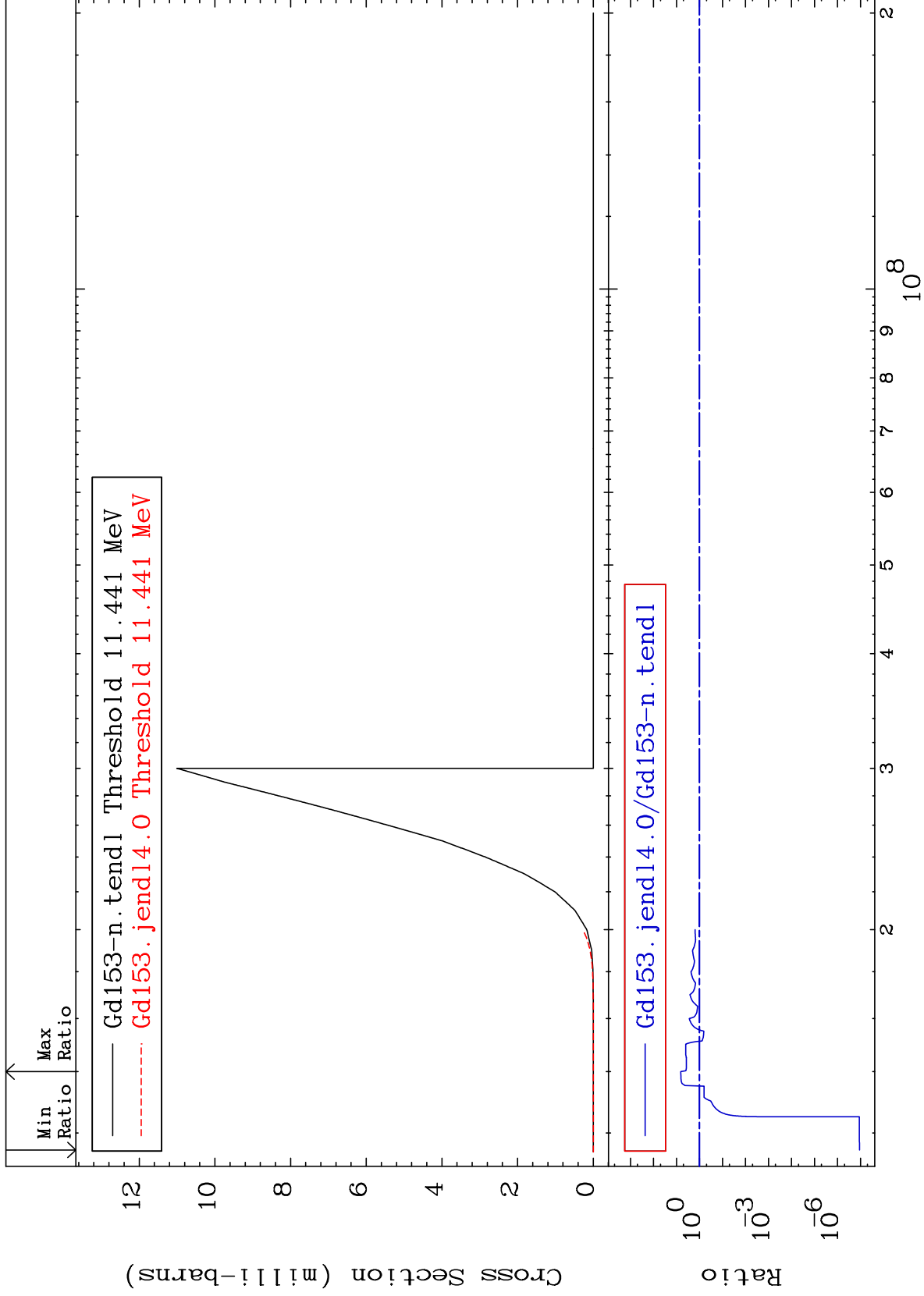
64-Gd-153
-99.77 To 22.42 %



8

Incident Energy (eV)

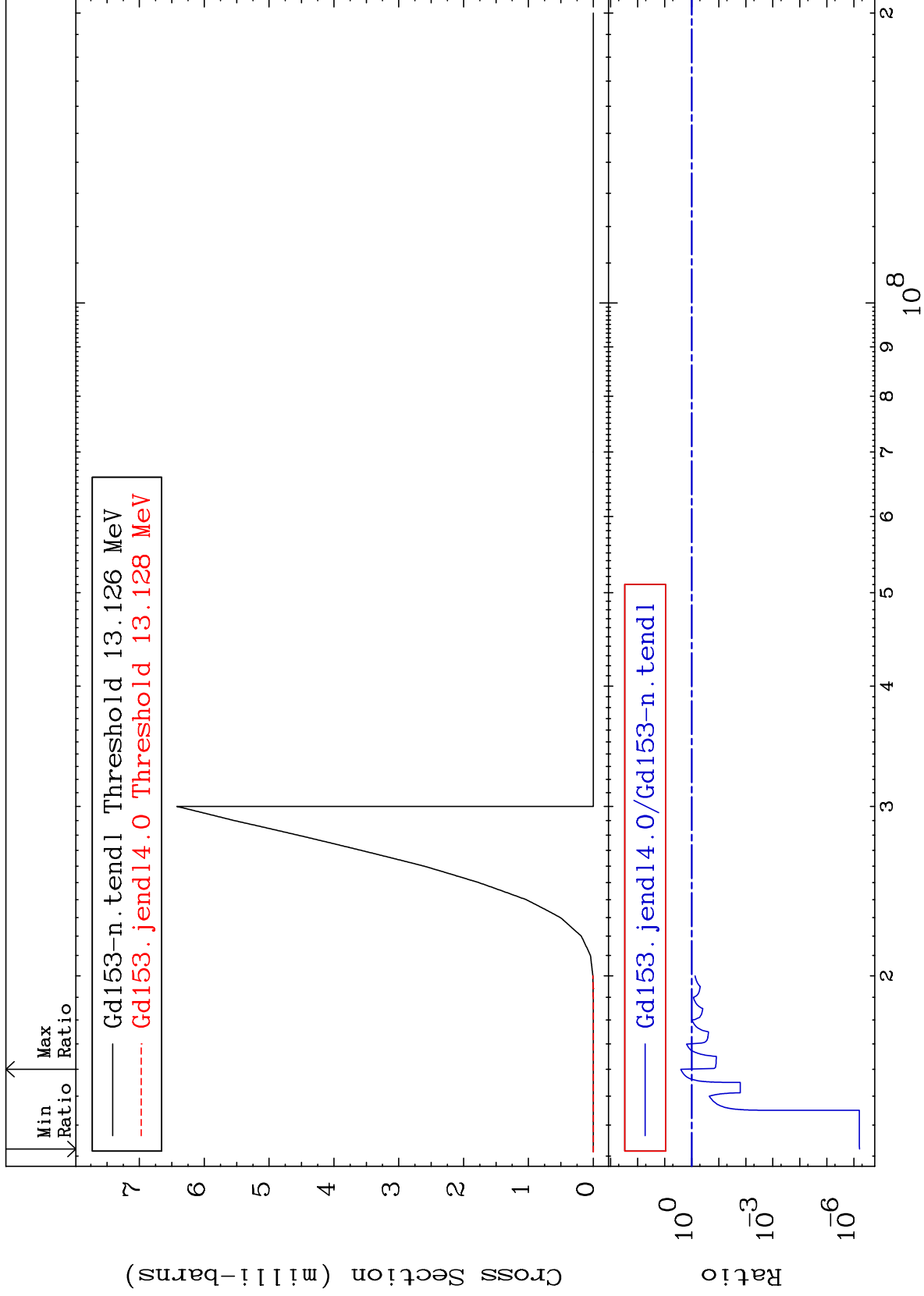
64-Gd-153



MAT 6428

(n,n') t
Cross Section

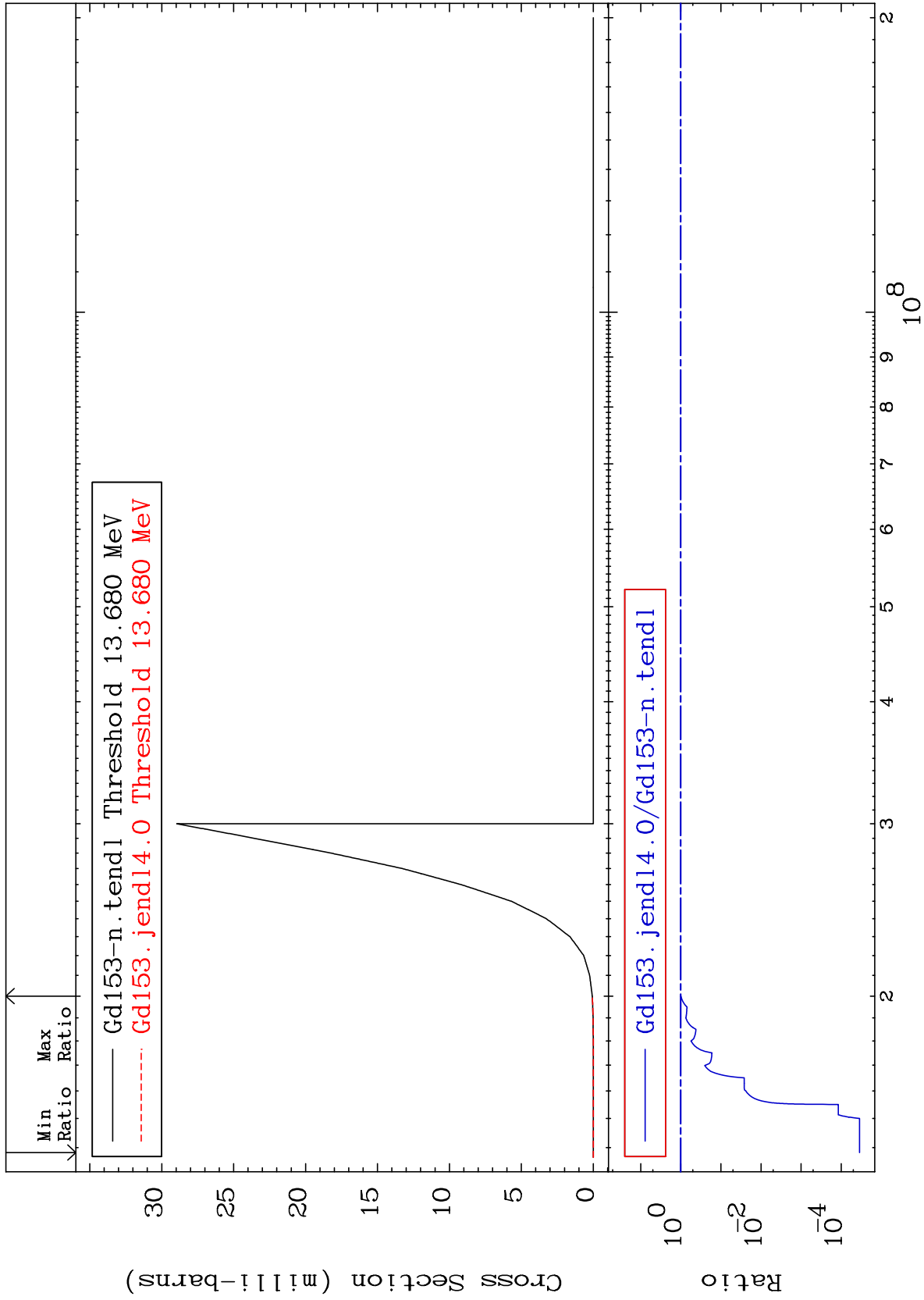
64-Gd-153
-100.0 To 153.1 %



10

64-Gd-153

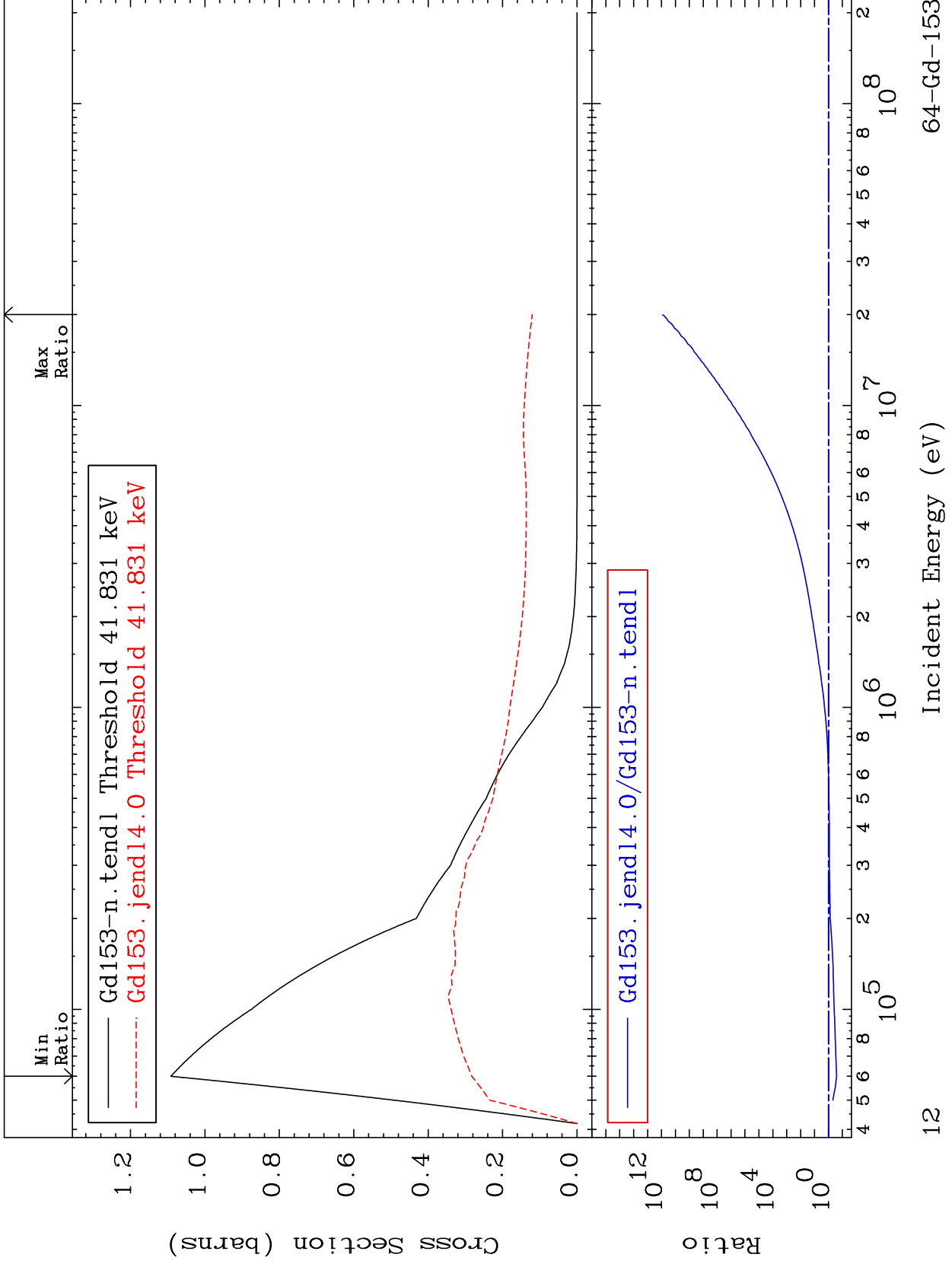
64-Gd-153



MAT 6428

41.56 keV (n,n') Level
Cross Section

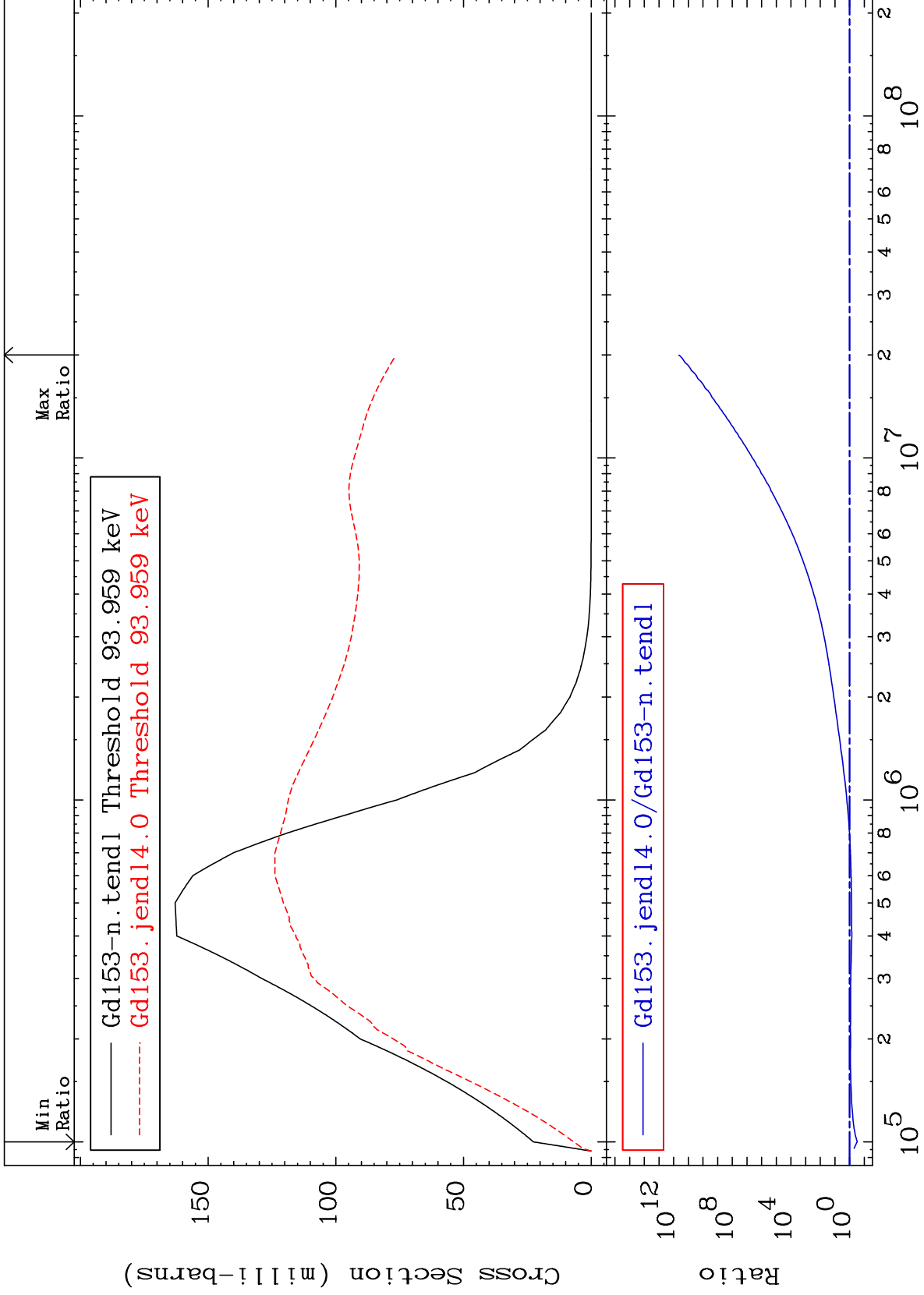
64-Gd-153
-74.10 To 9999. %



MAT 6428

93.34 keV (n,n') Level
Cross Section

64-Gd-153
-69.79 To 9999. %



13

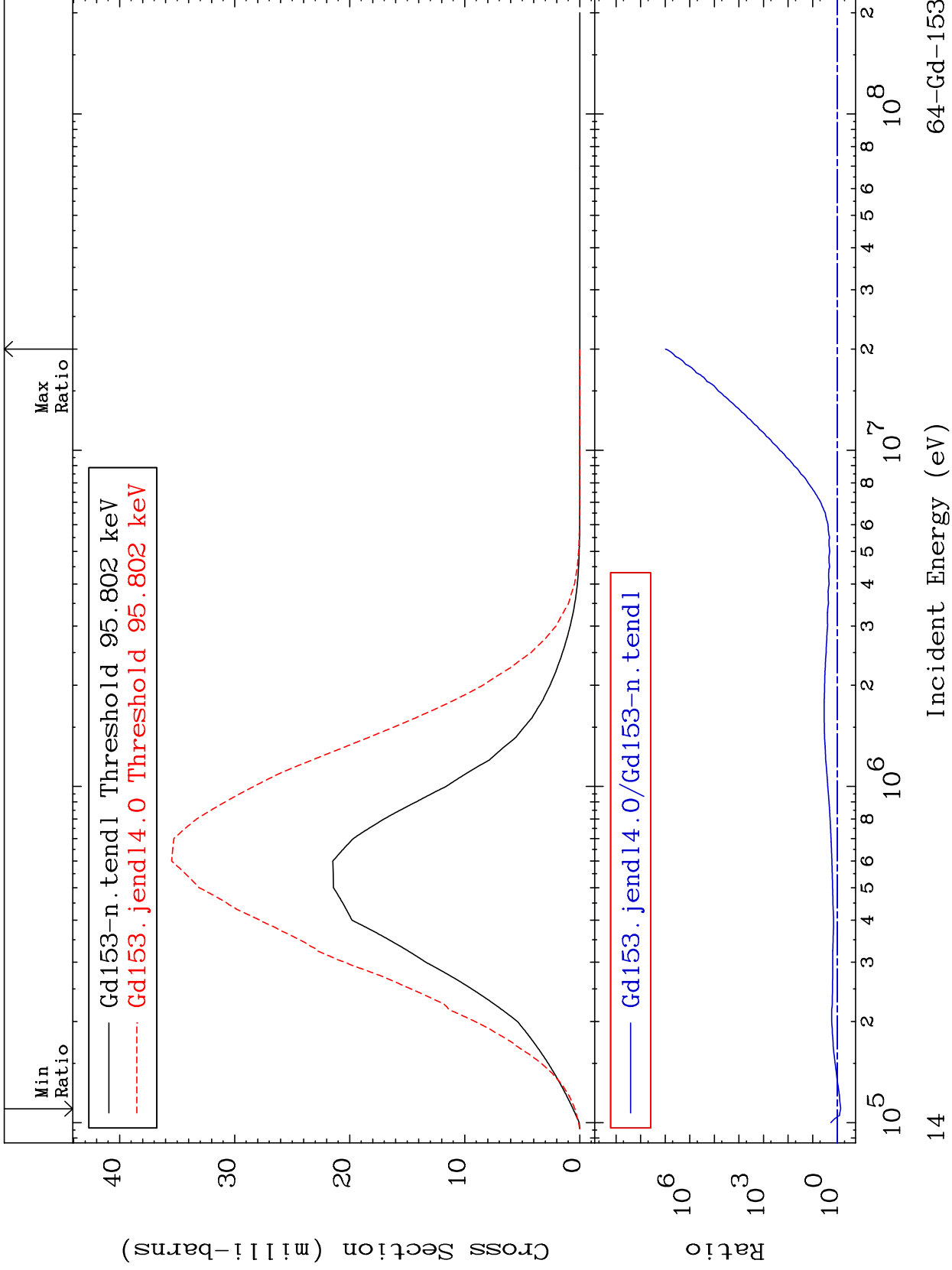
Incident Energy (eV)

64-Gd-153

MAT 6428

95.17 keV (n,n') Level
Cross Section

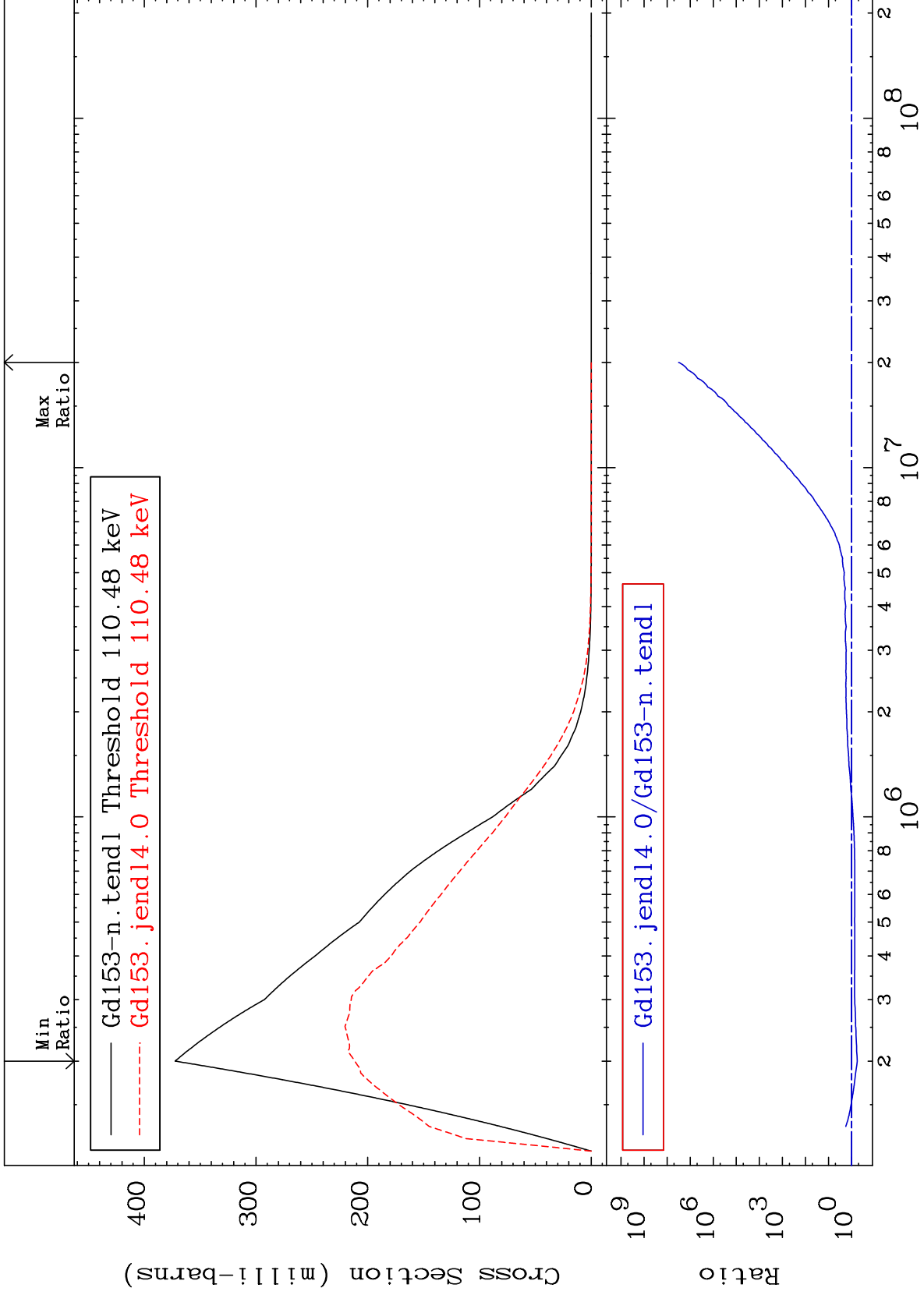
64-Gd-153
-27.49 To 9999. %



MAT 6428

109.8 keV (n,n') Level
Cross Section

64-Gd-153
-43.18 To 9999. %



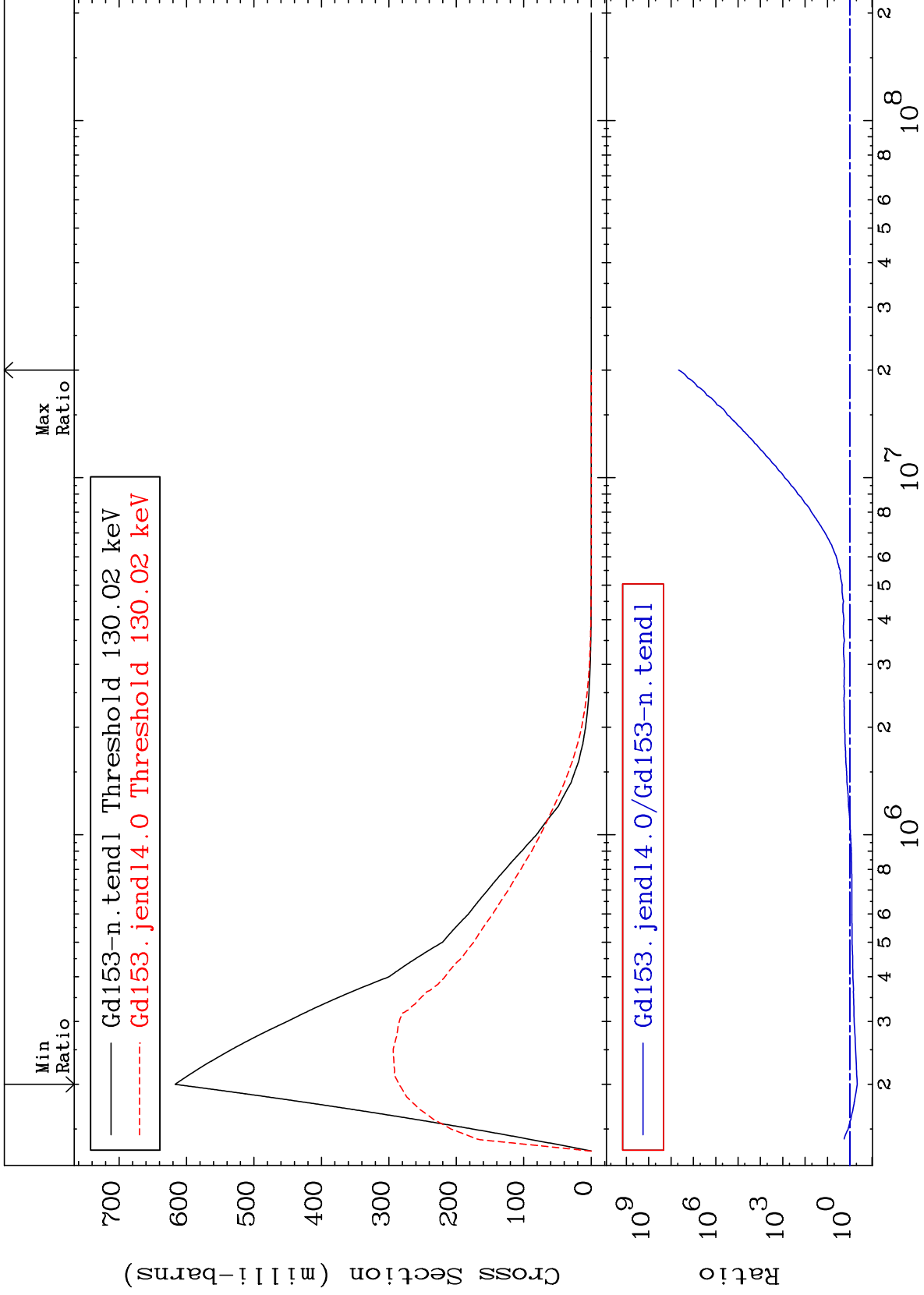
15

64-Gd-153

MAT 6428

129.2 keV (n,n') Level
Cross Section

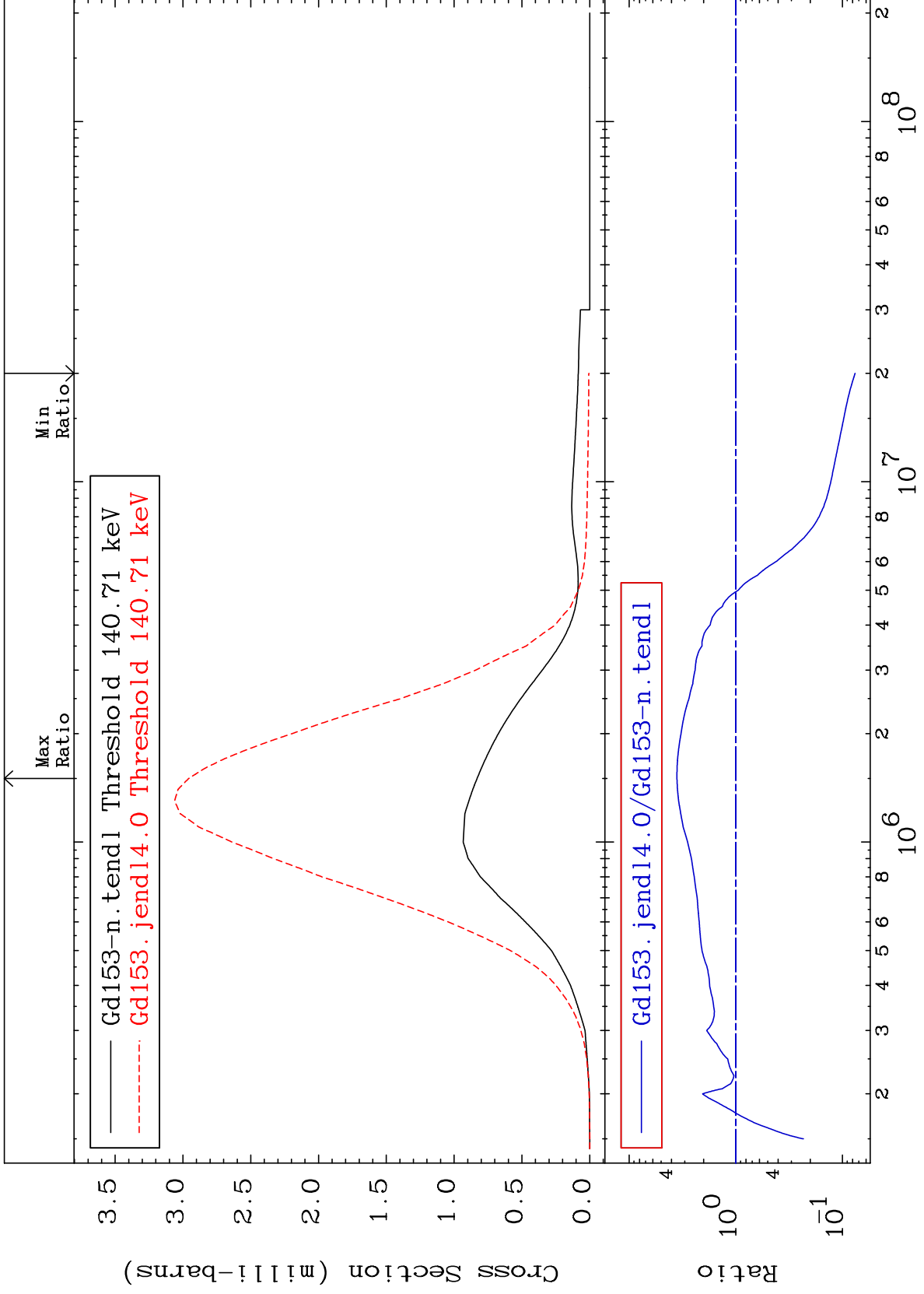
64-Gd-153
-53.84 To 9999. %



MAT 6428

139.8 keV (n,n') Level
Cross Section

64-Gd-153
-92.41 To 256.1 %



17

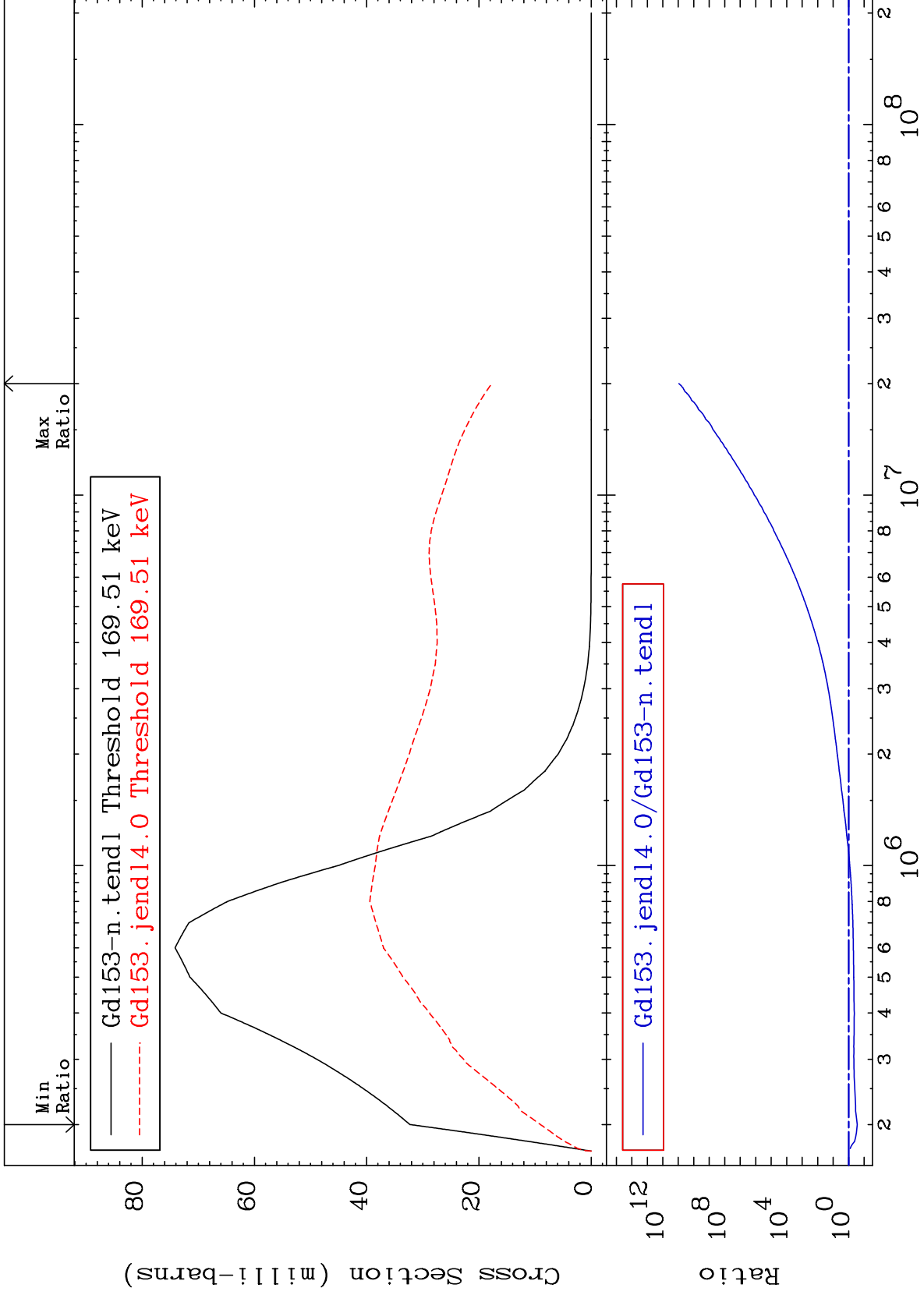
64-Gd-153

64-Gd-153

MAT 6428

168.4 keV (n,n') Level
Cross Section

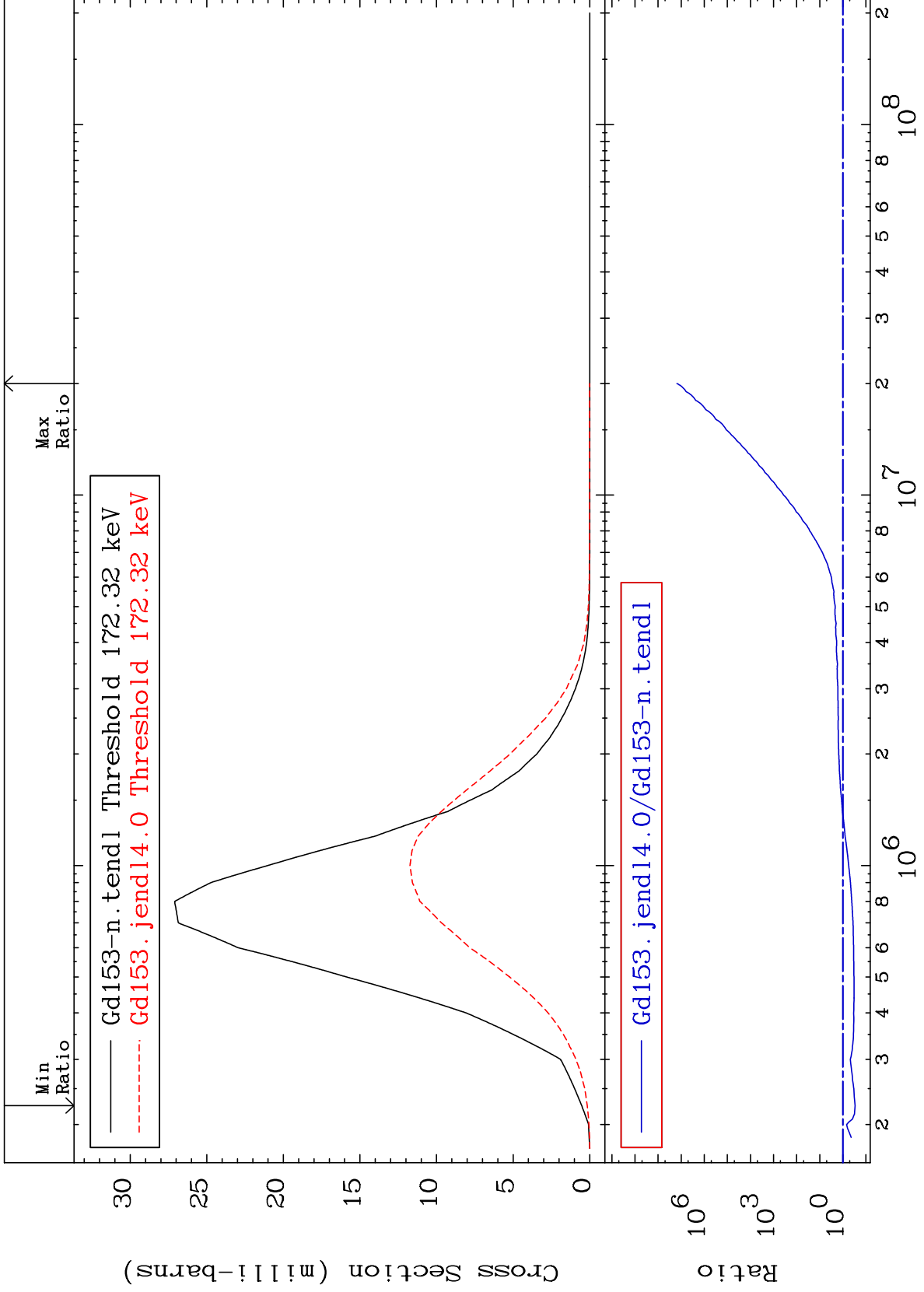
64-Gd-153
-72.01 To 9999. %



MAT 6428

171.2 keV (n,n') Level
Cross Section

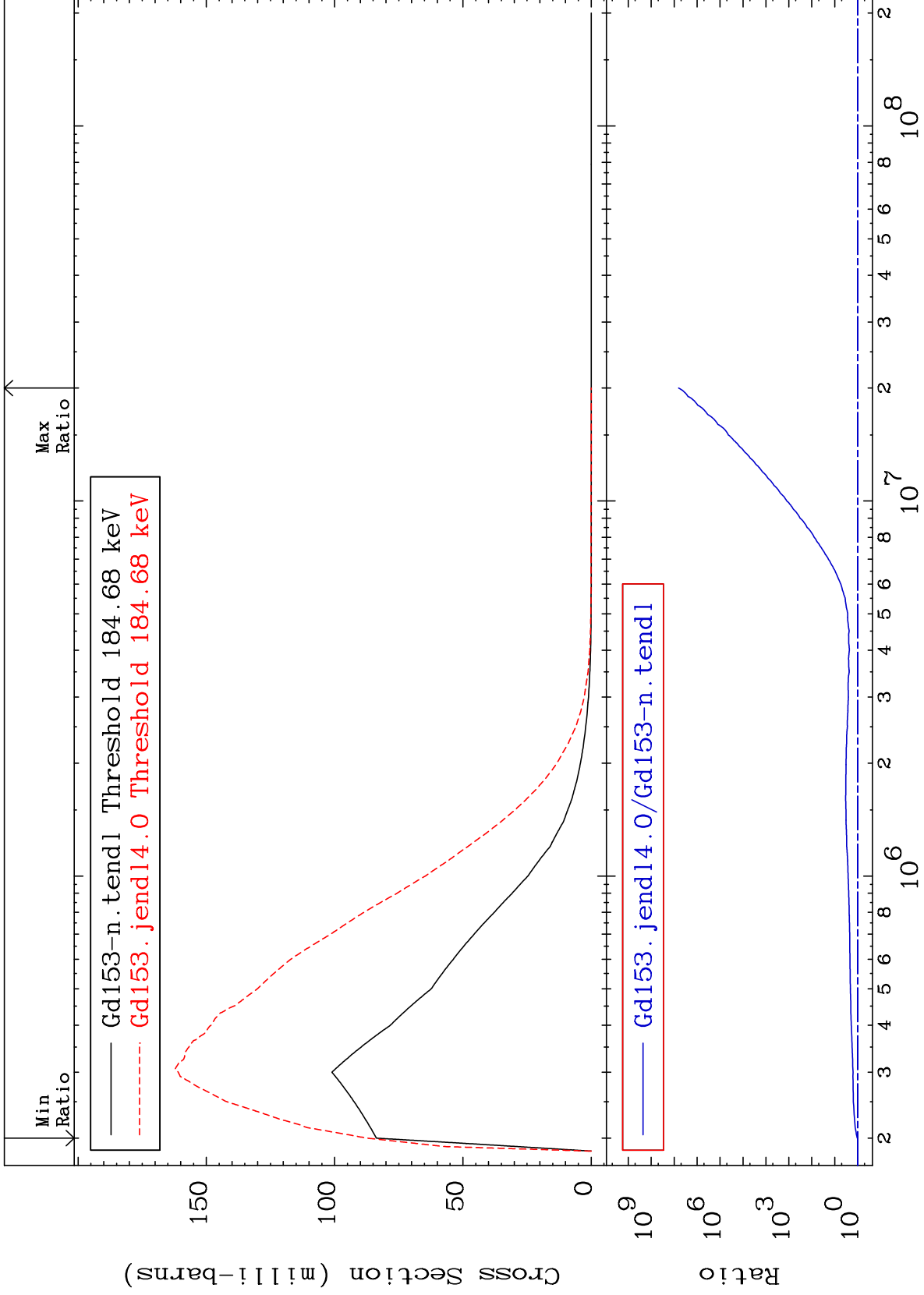
64-Gd-153
-70.58 To 9999. %



MAT 6428

183.5 keV (n,n') Level
Cross Section

64-Gd-153
4.251 To 9999. %



20

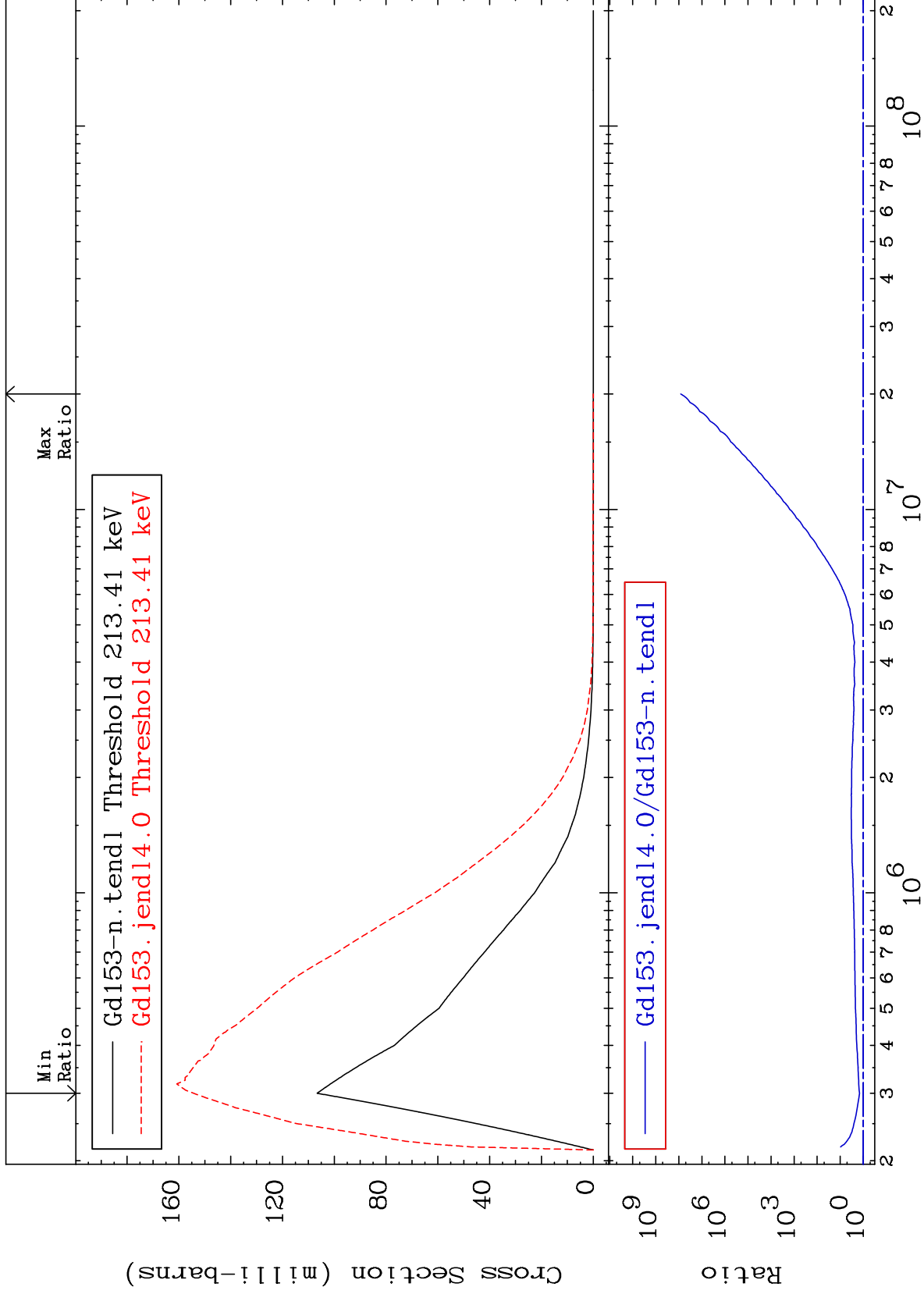
Incident Energy (eV)

64-Gd-153

MAT 6428

212.0 keV (n,n') Level
Cross Section

64-Gd-153
44.75 To 9999. %



21

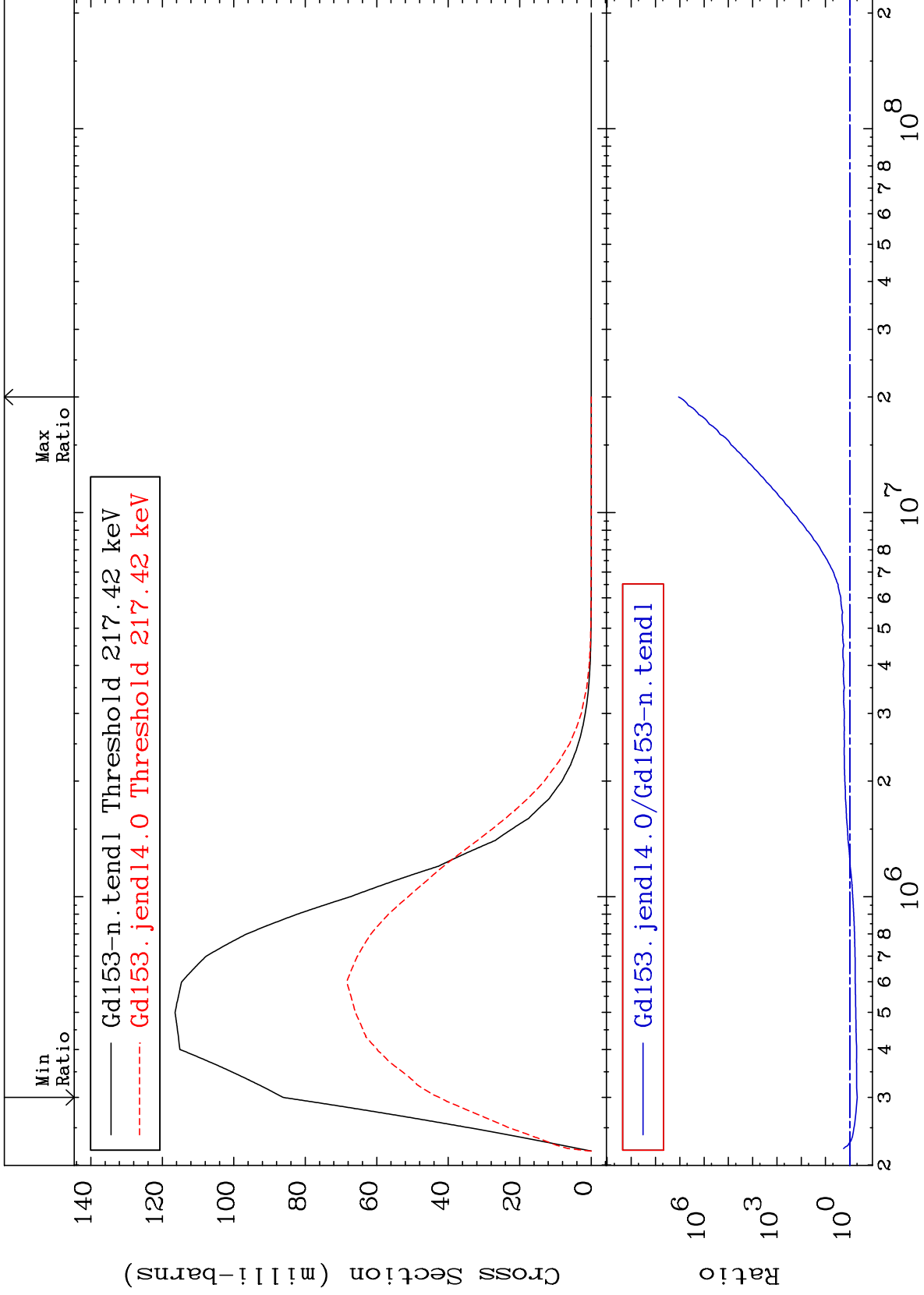
Incident Energy (eV)

64-Gd-153

MAT 6428

216.0 keV (n,n') Level
Cross Section

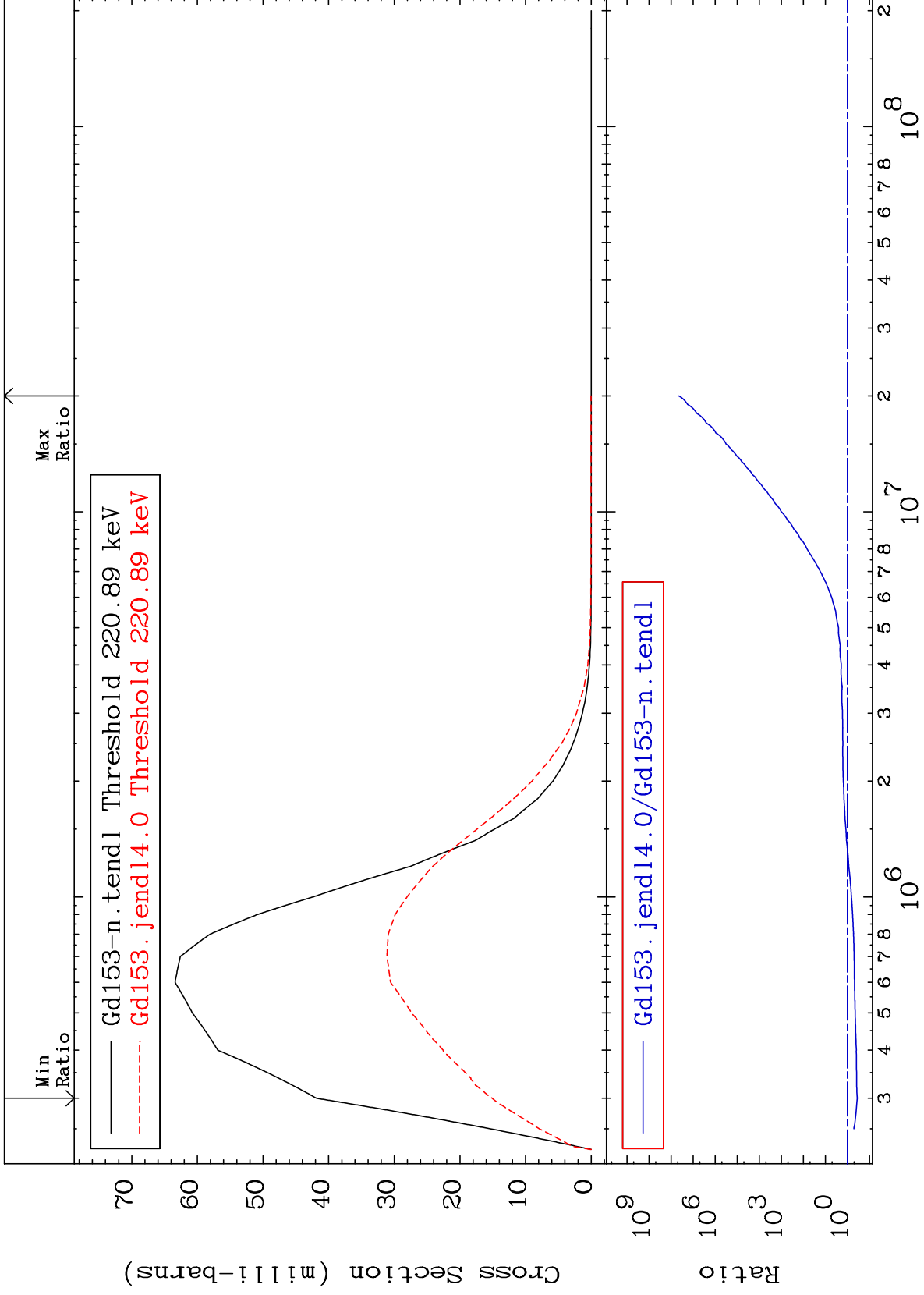
64-Gd-153
-50.68 To 9999. %



MAT 6428

219.4 keV (n,n') Level
Cross Section

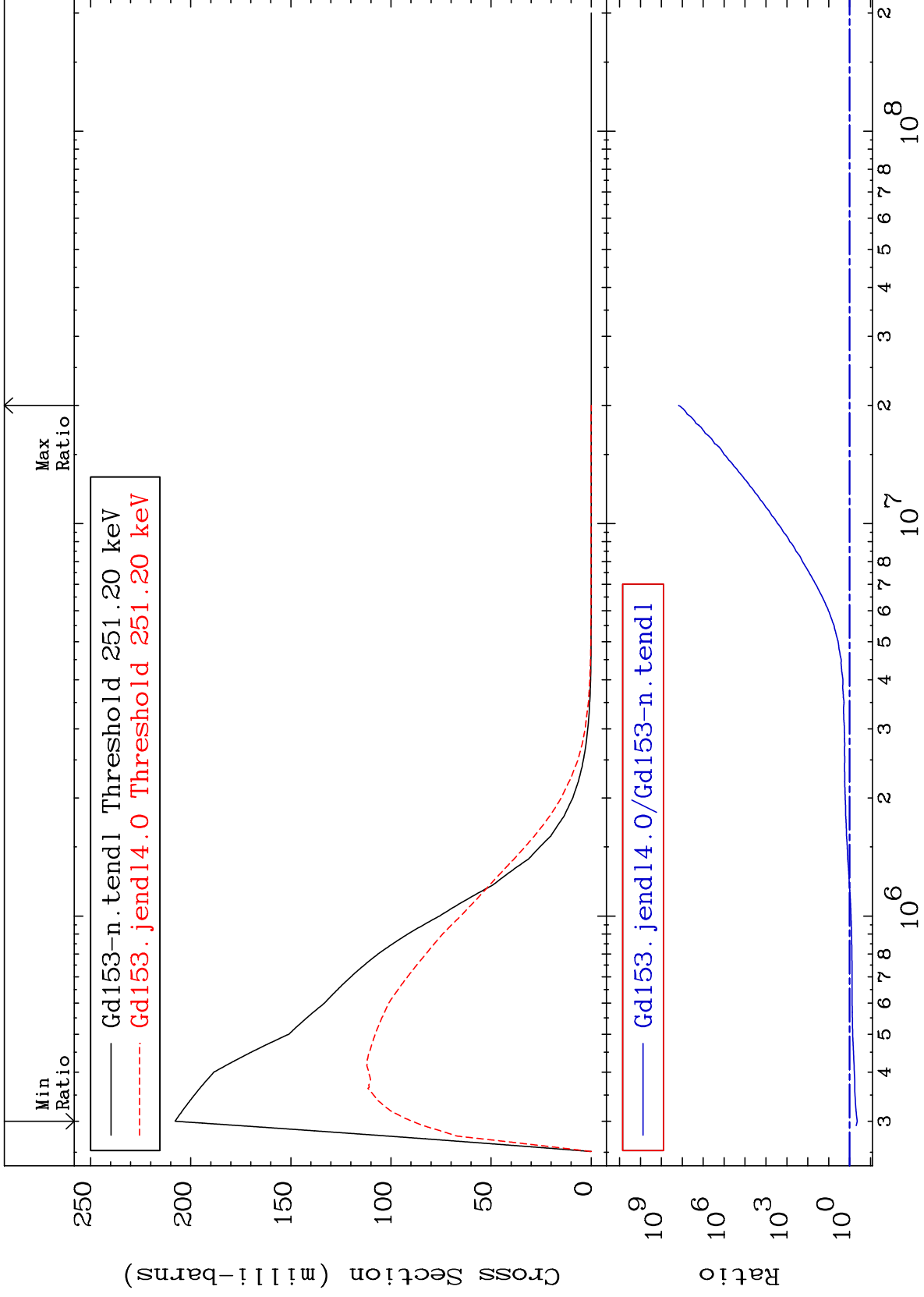
64-Gd-153
-63.94 To 9999. %



MAT 6428

249.6 keV (n,n') Level
Cross Section

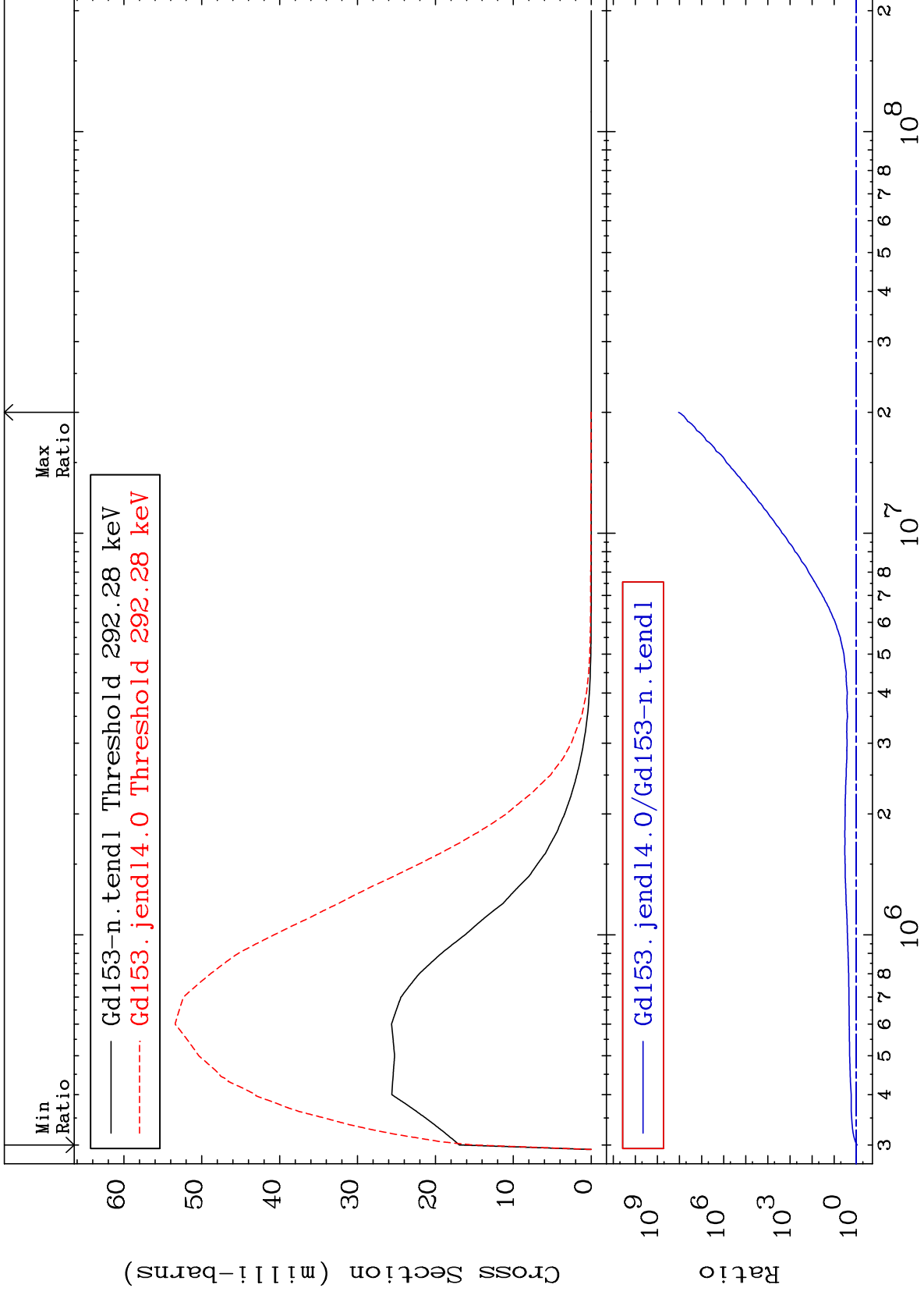
64-Gd-153
-57.00 To 9999. %



MAT 6428

290.4 keV (n,n') Level
Cross Section

64-Gd-153
-9.800 To 9999. %



25

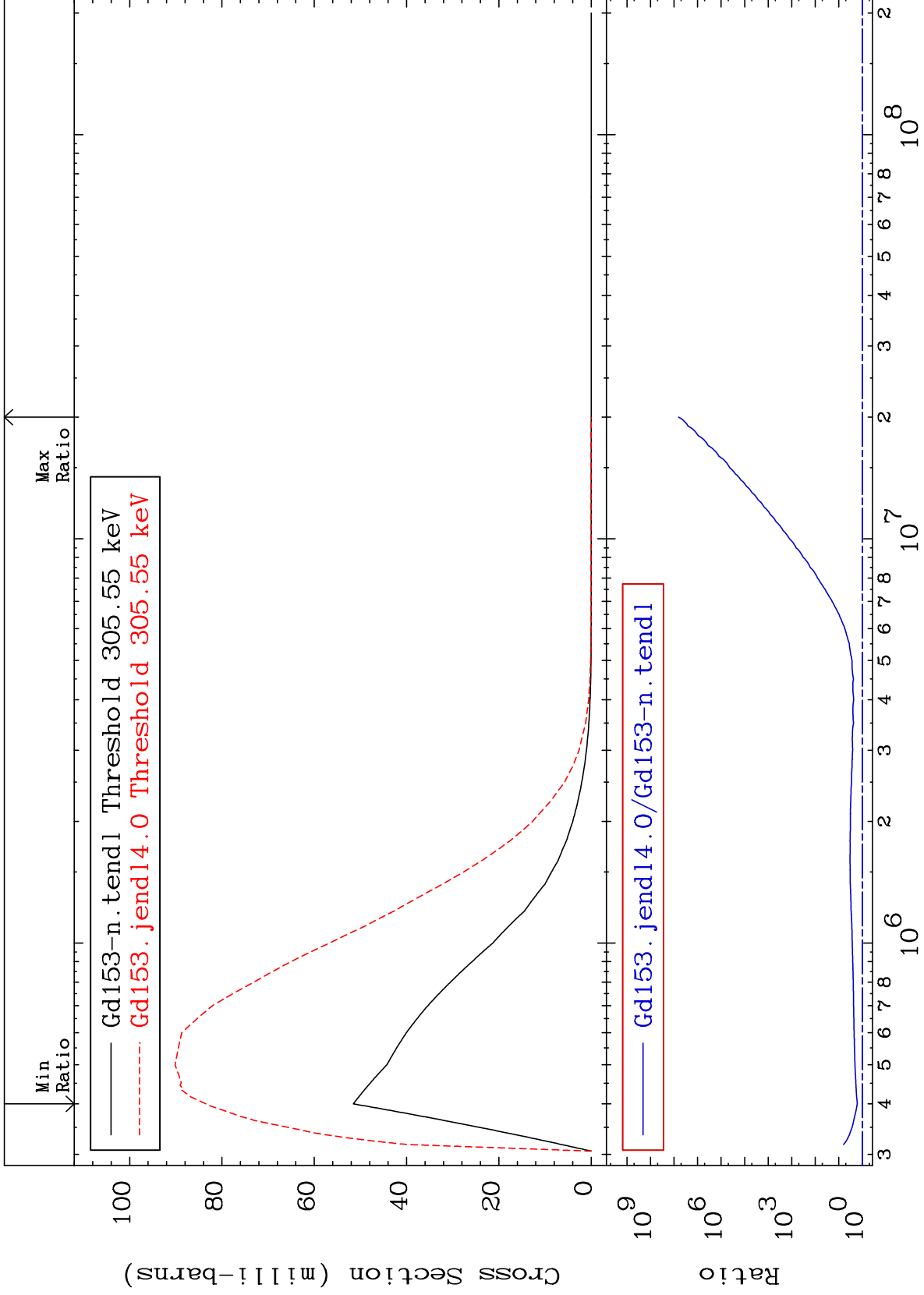
Incident Energy (eV)

64-Gd-153

MAT 6428

303.5 keV (n,n') Level
Cross Section

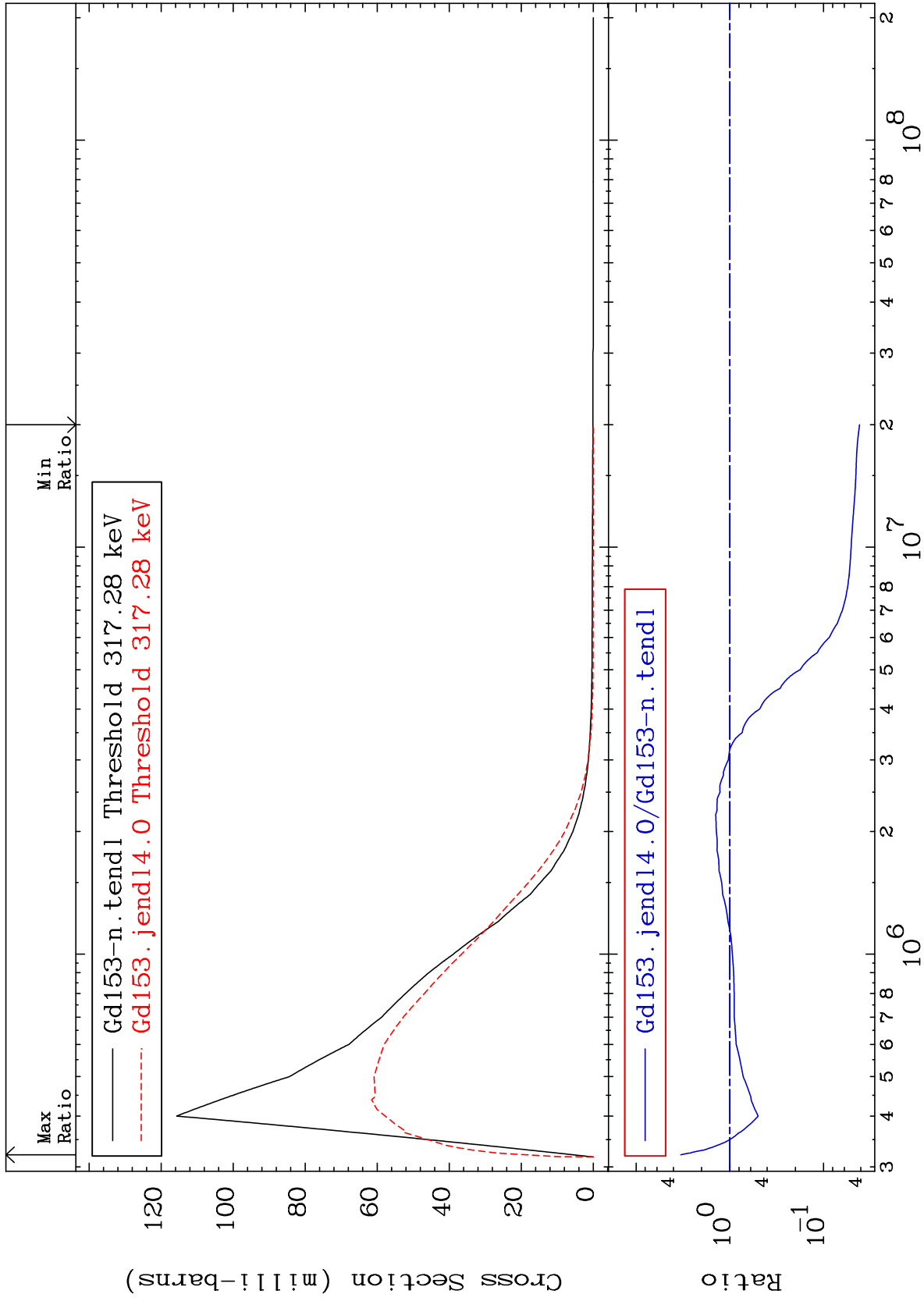
64-Gd-153
61.99 To 9999. %



MAT 6428

315.2 keV (n,n') Level
Cross Section

64-Gd-153
-95.87 To 234.0 %



27

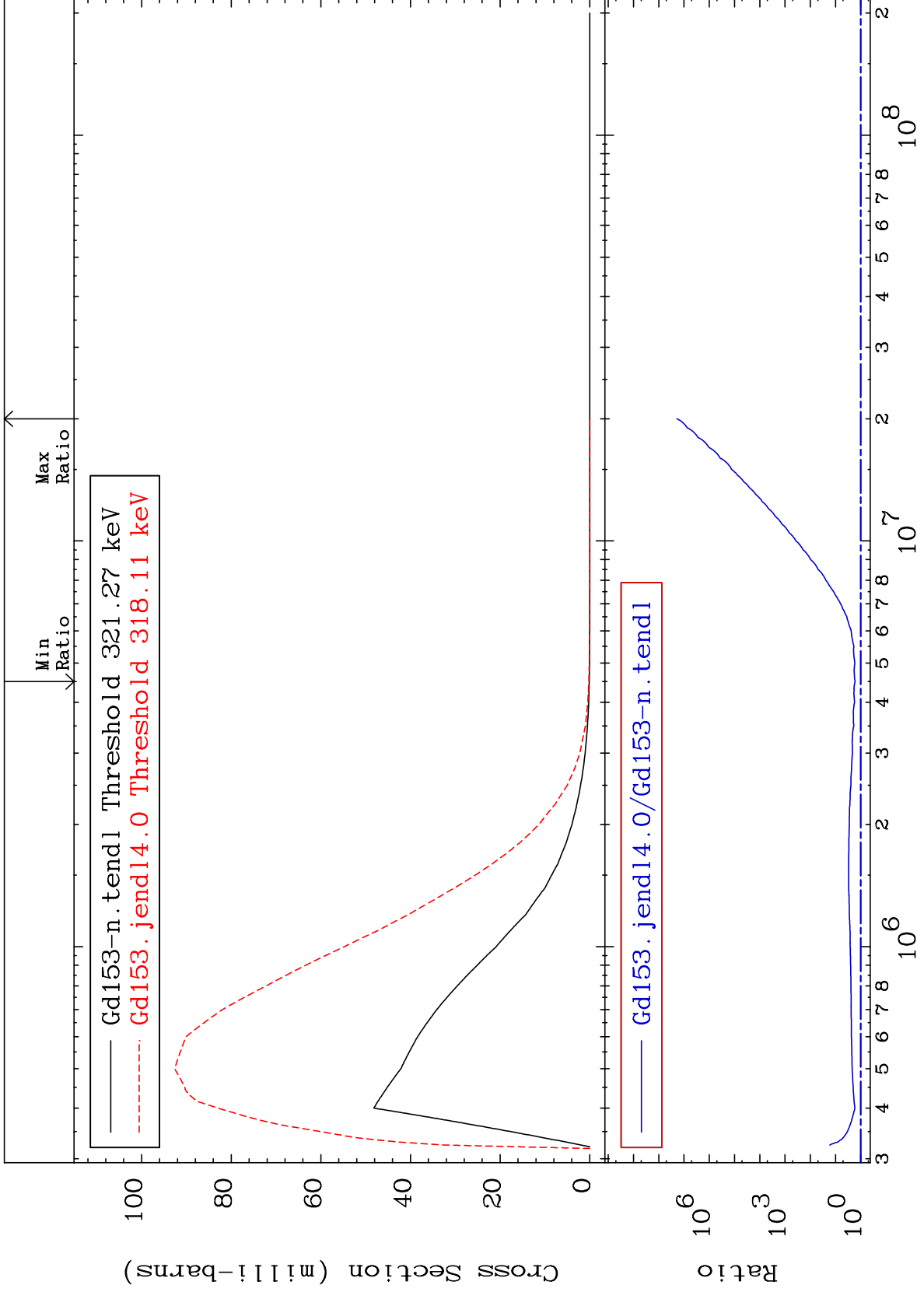
Incident Energy (eV)

64-Gd-153

MAT 6428

319.2 keV (n,n') Level
Cross Section

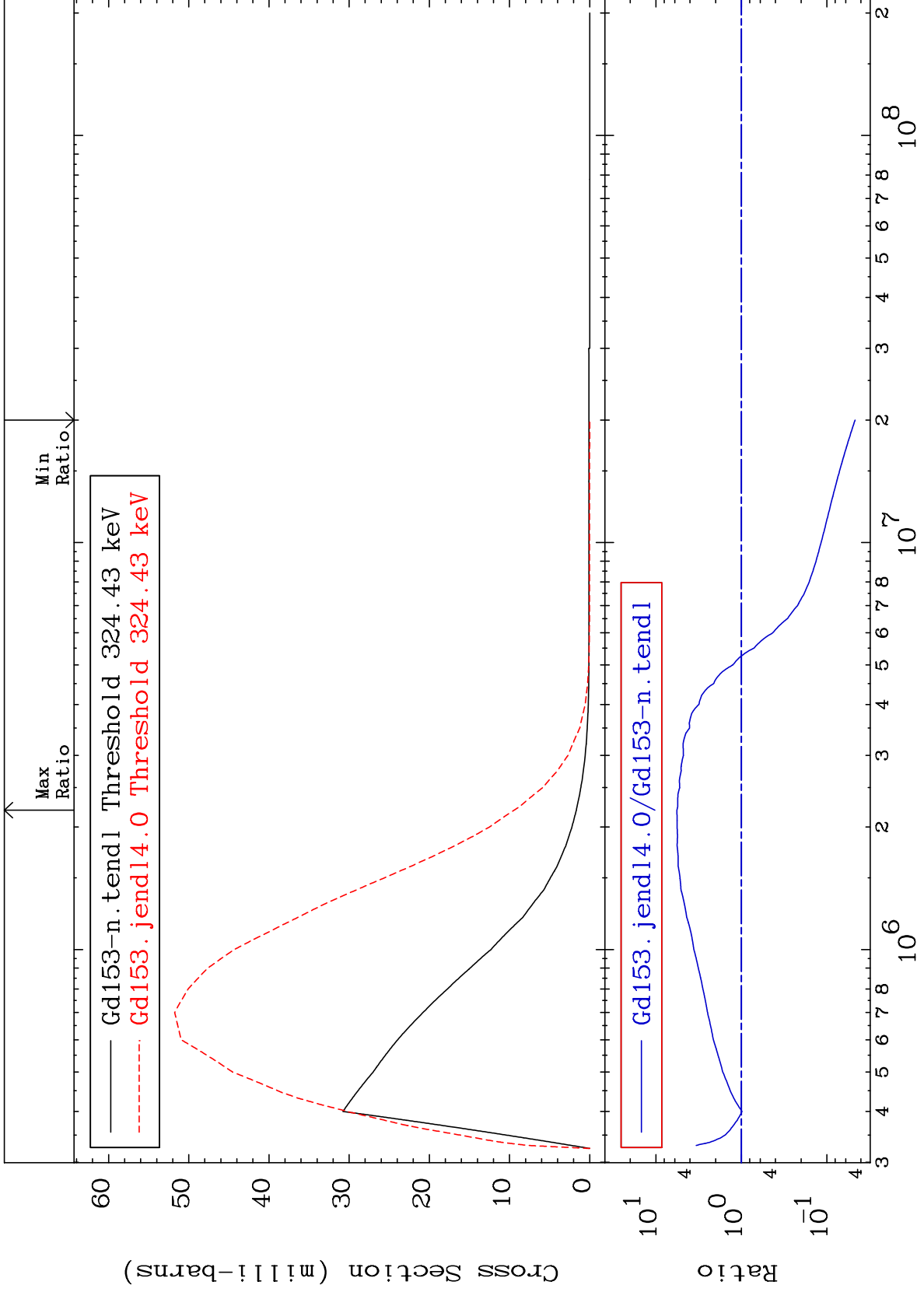
64-Gd-153
67.88 To 9999. %



MAT 6428

322.3 keV (n,n') Level
Cross Section

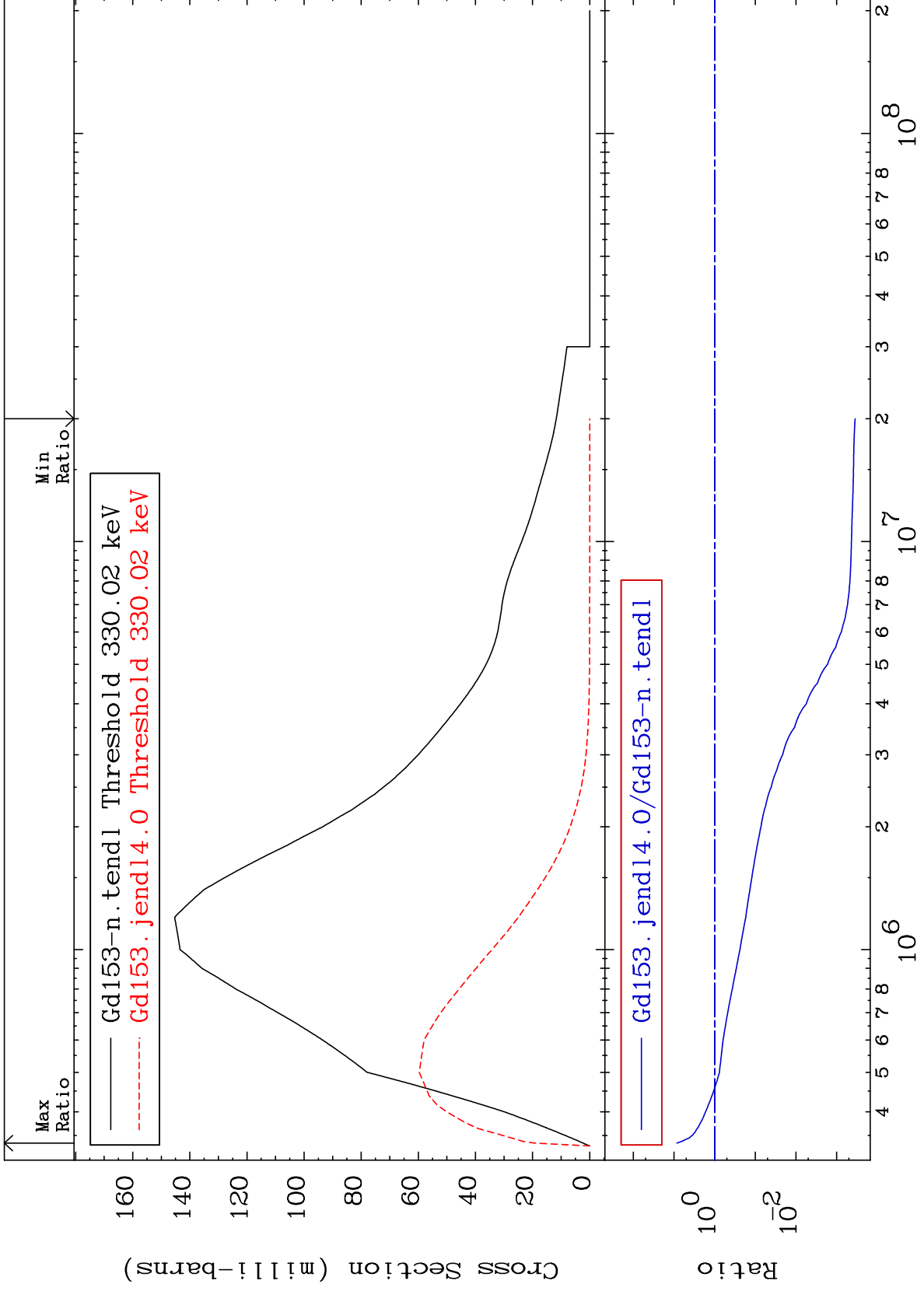
64-Gd-153
-95.33 To 467.8 %



MAT 6428

327.9 keV (n,n') Level
Cross Section

64-Gd-153
-99.96 To 745.4 %



30

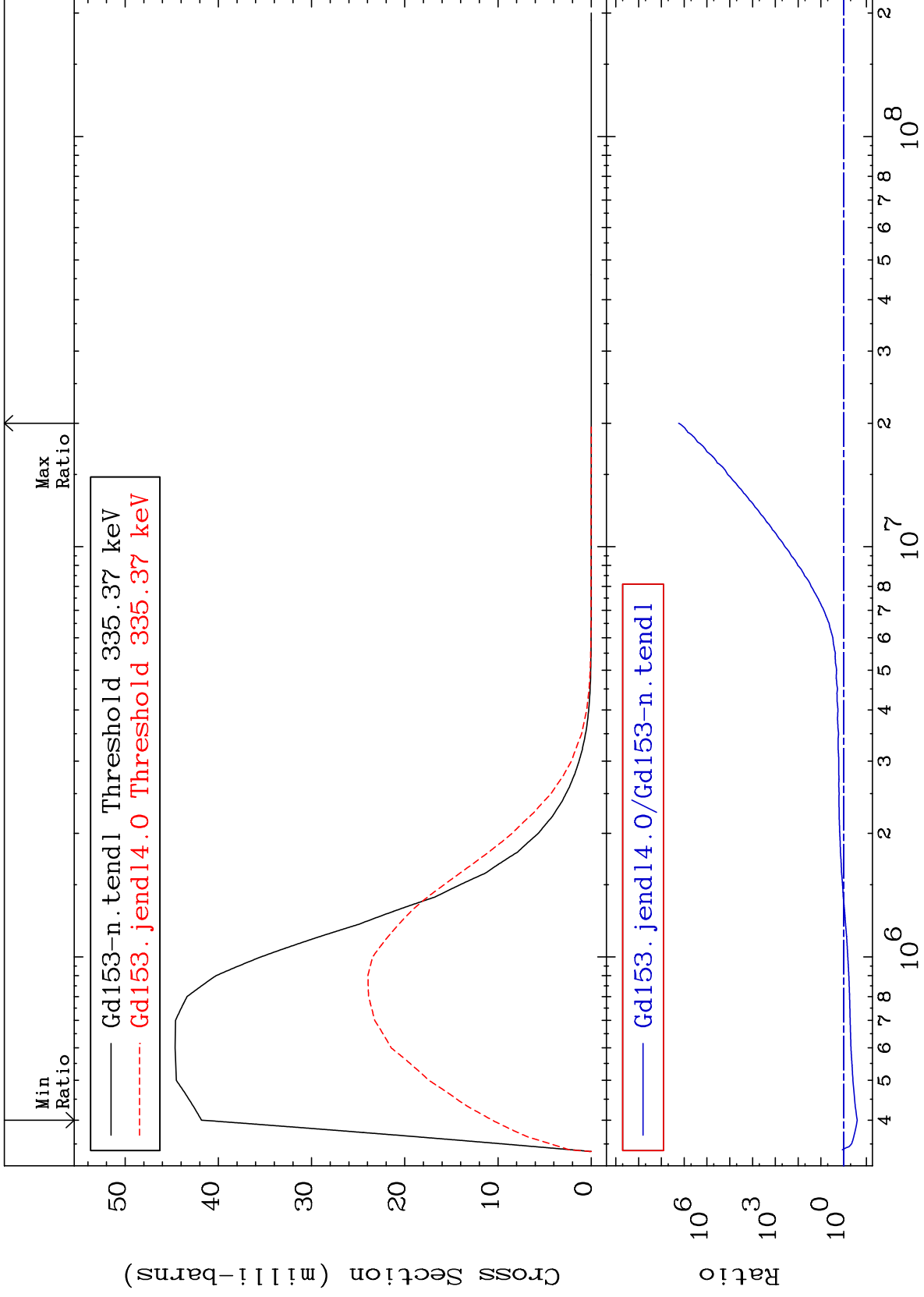
Incident Energy (eV)

64-Gd-153

MAT 6428

333.2 keV (n,n') Level
Cross Section

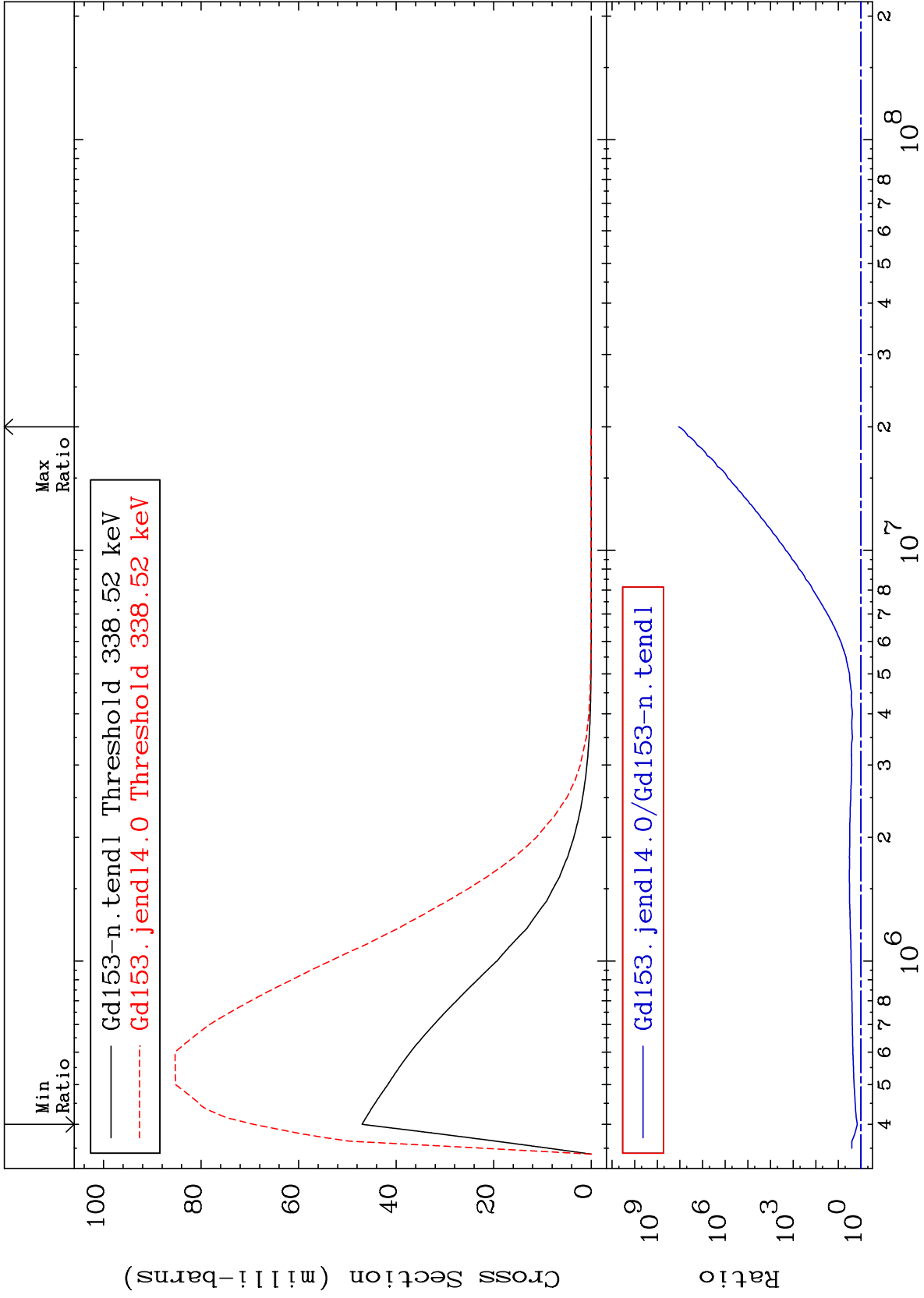
64-Gd-153
-74.61 To 9999. %



MAT 6428

336.3 keV (n,n') Level
Cross Section

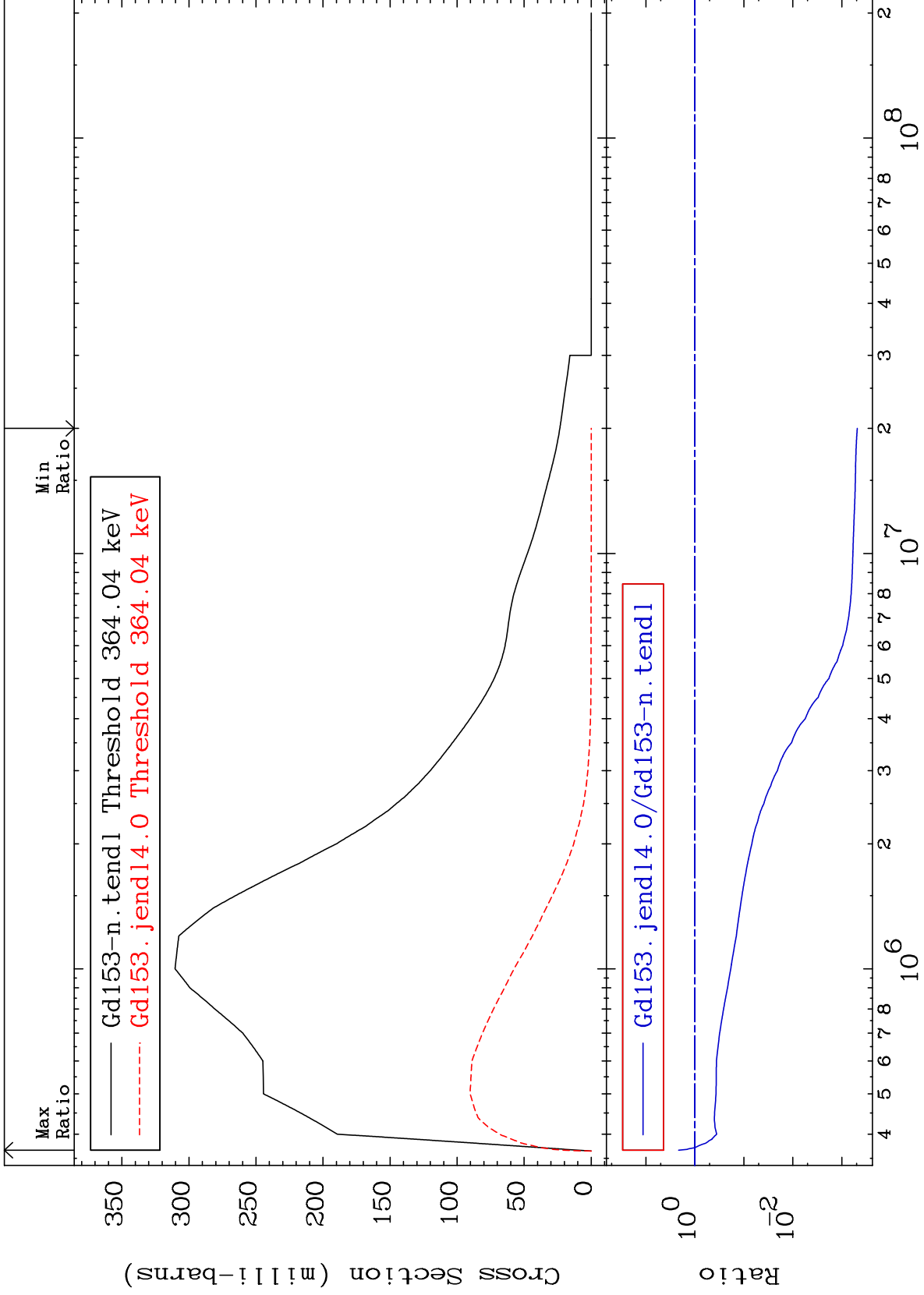
64-Gd-153
47.22 To 9999. %



MAT 6428

361.7 keV (n,n') Level
Cross Section

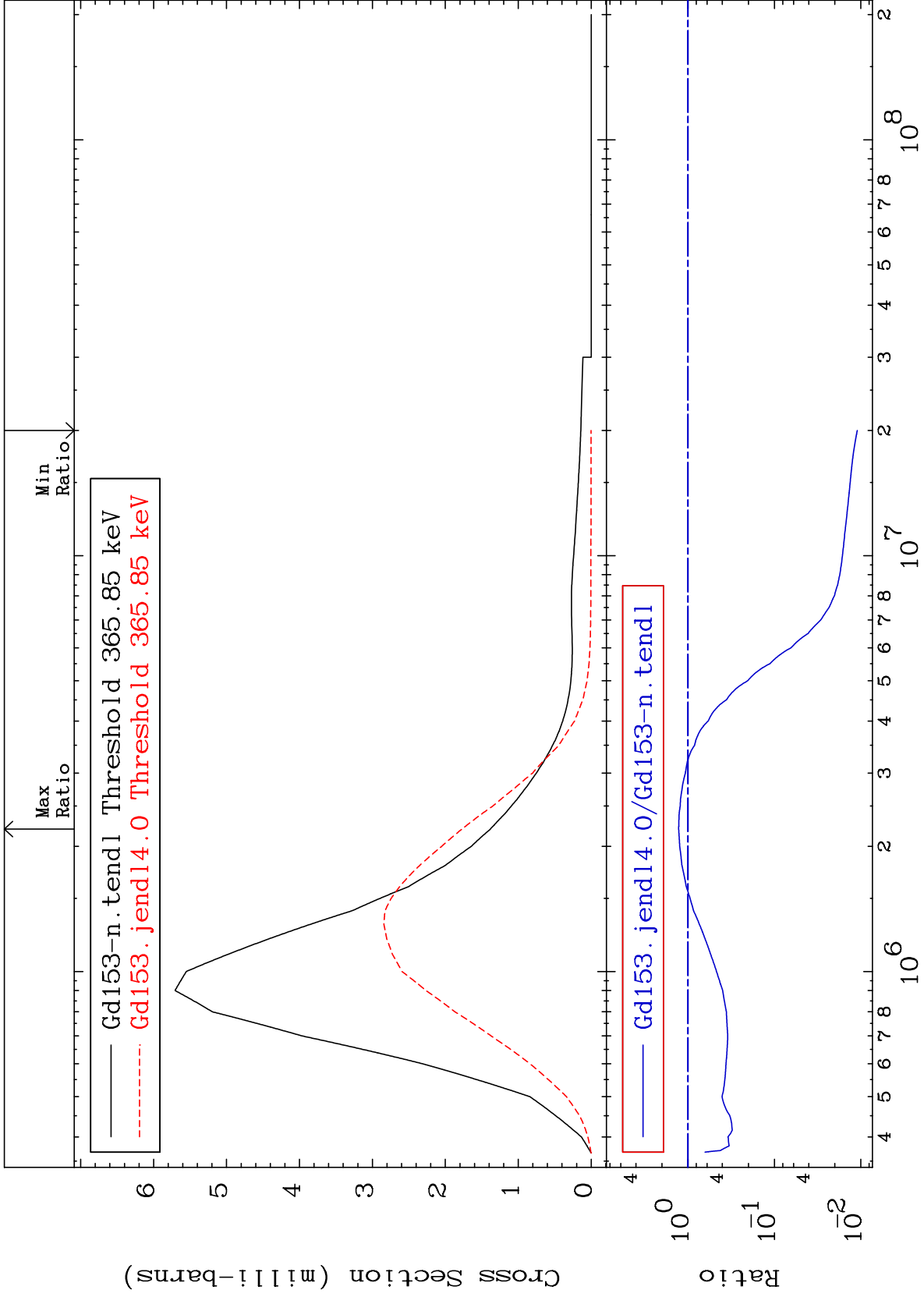
64-Gd-153
-99.95 To 114.5 %



MAT 6428

363.4 keV (n,n') Level
Cross Section

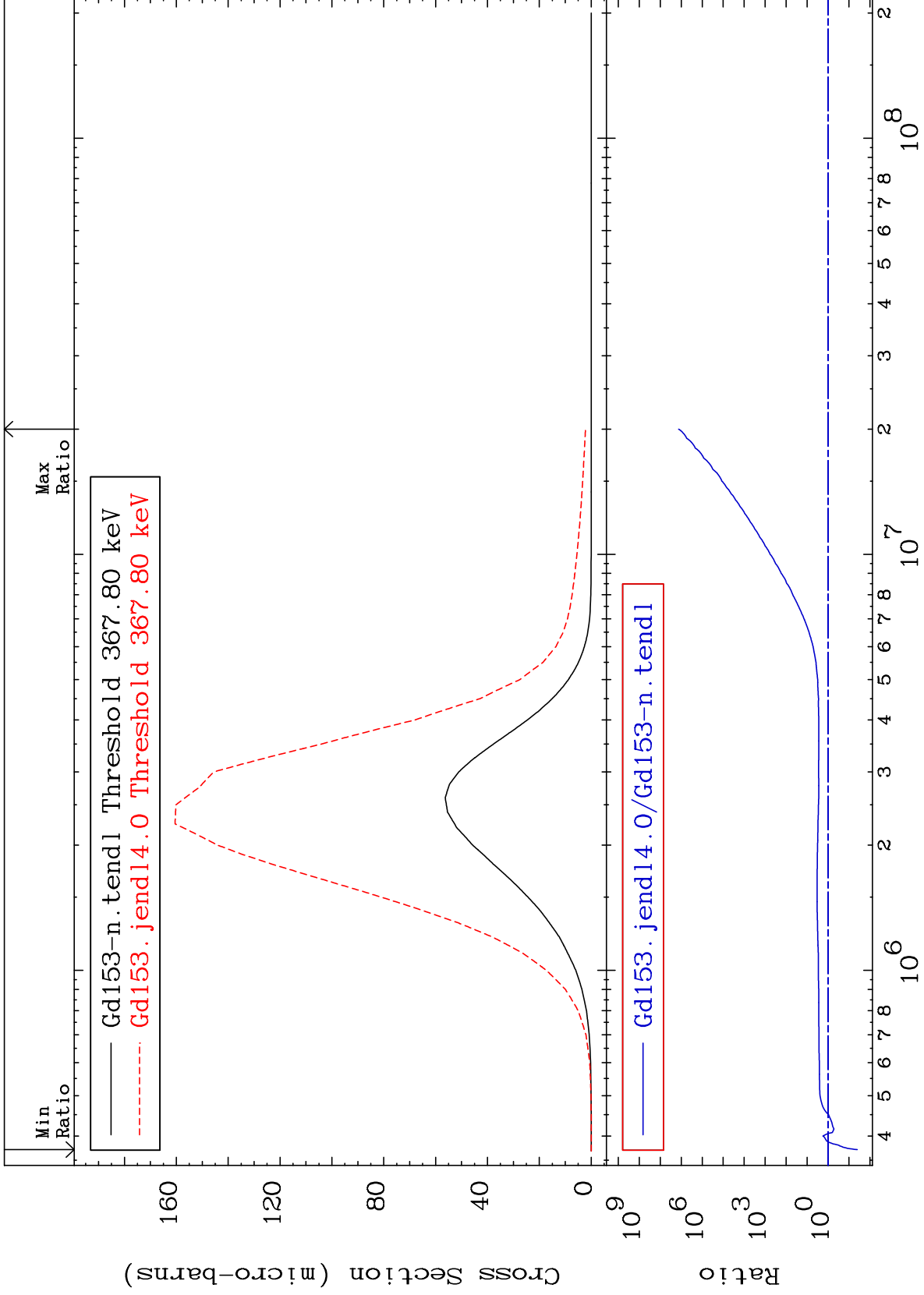
64-Gd-153
-98.90 To 28.20 %



MAT 6428

365.4 keV (n,n') Level
Cross Section

64-Gd-153
-95.96 To 9999. %



35

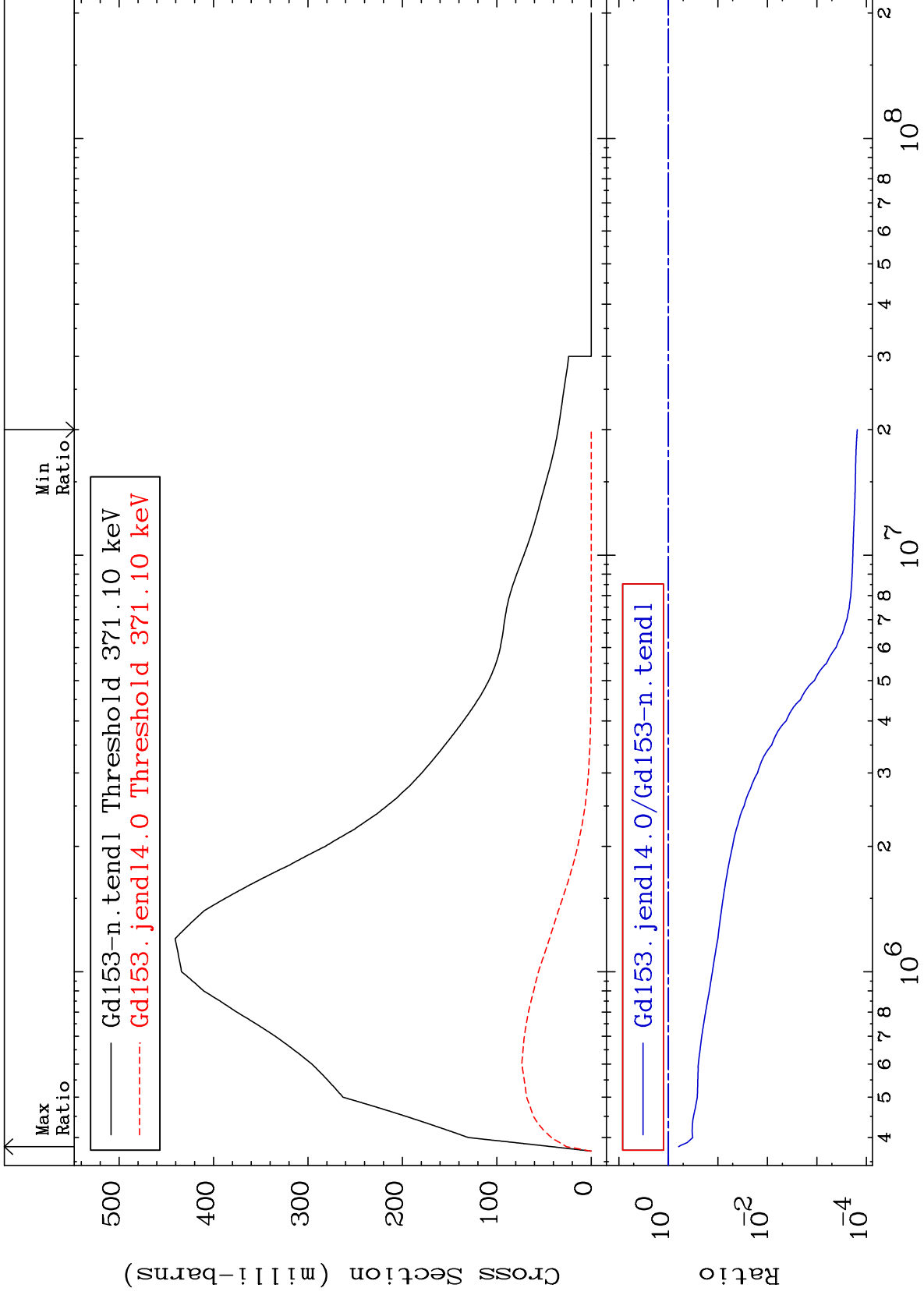
Incident Energy (eV)

64-Gd-153

MAT 6428

368.7 keV (n,n') Level
Cross Section

64-Gd-153
-99.98 To -38.04%



36

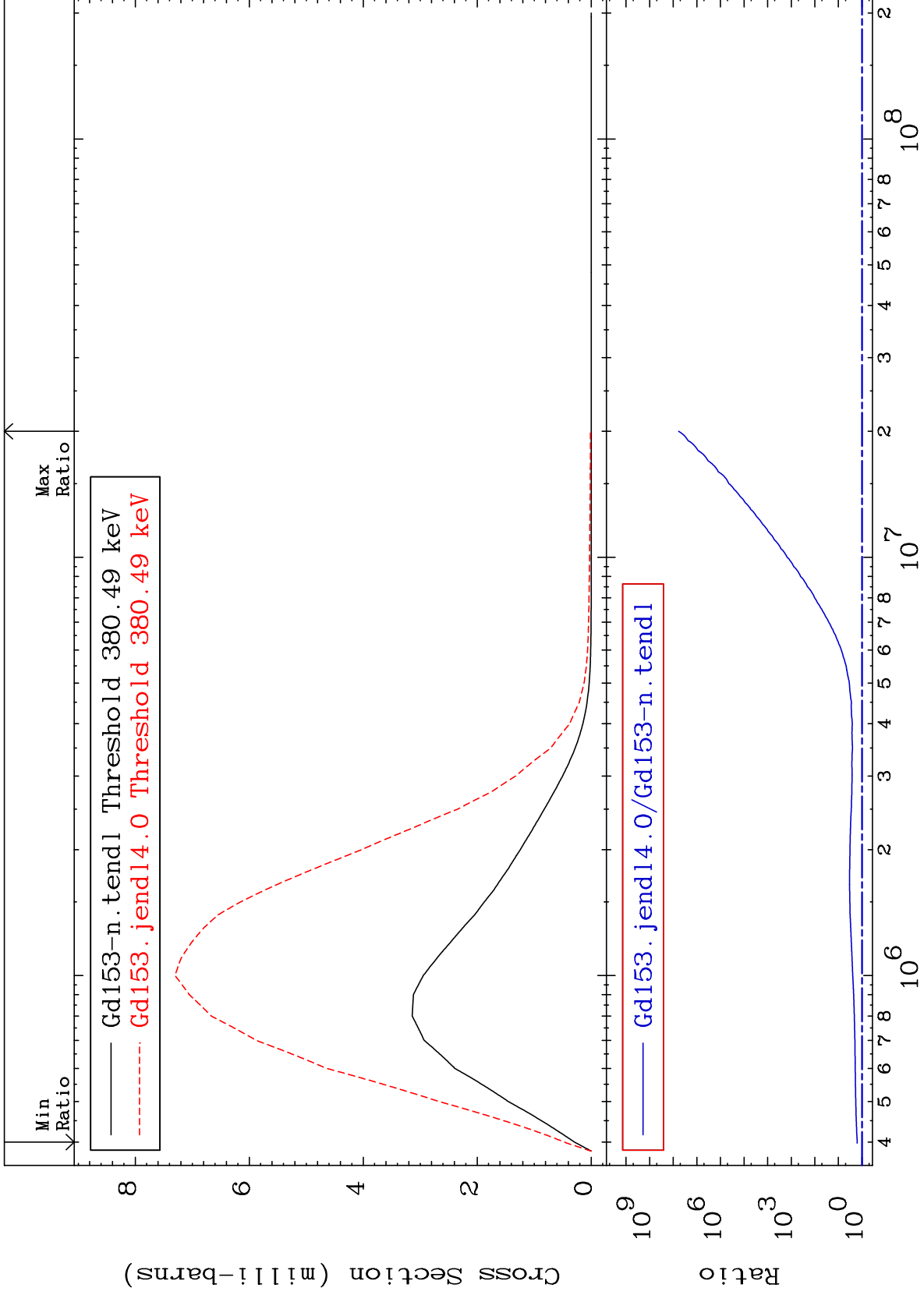
Incident Energy (eV)

64-Gd-153

MAT 6428

378.0 keV (n,n') Level
Cross Section

64-Gd-153
59.24 To 9999. %



37

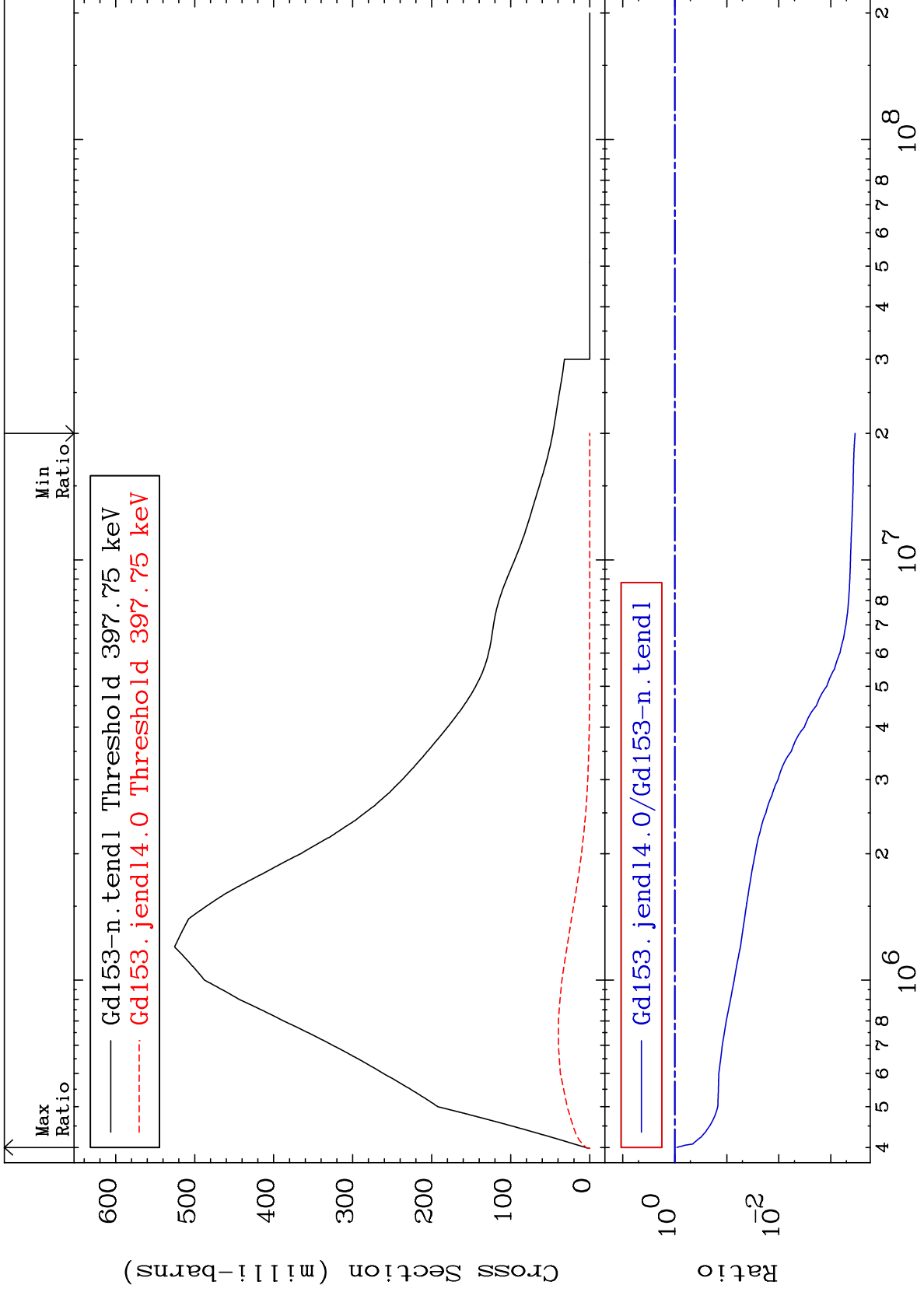
Incident Energy (eV)

64-Gd-153

MAT 6428

395.1 keV (n,n') Level
Cross Section

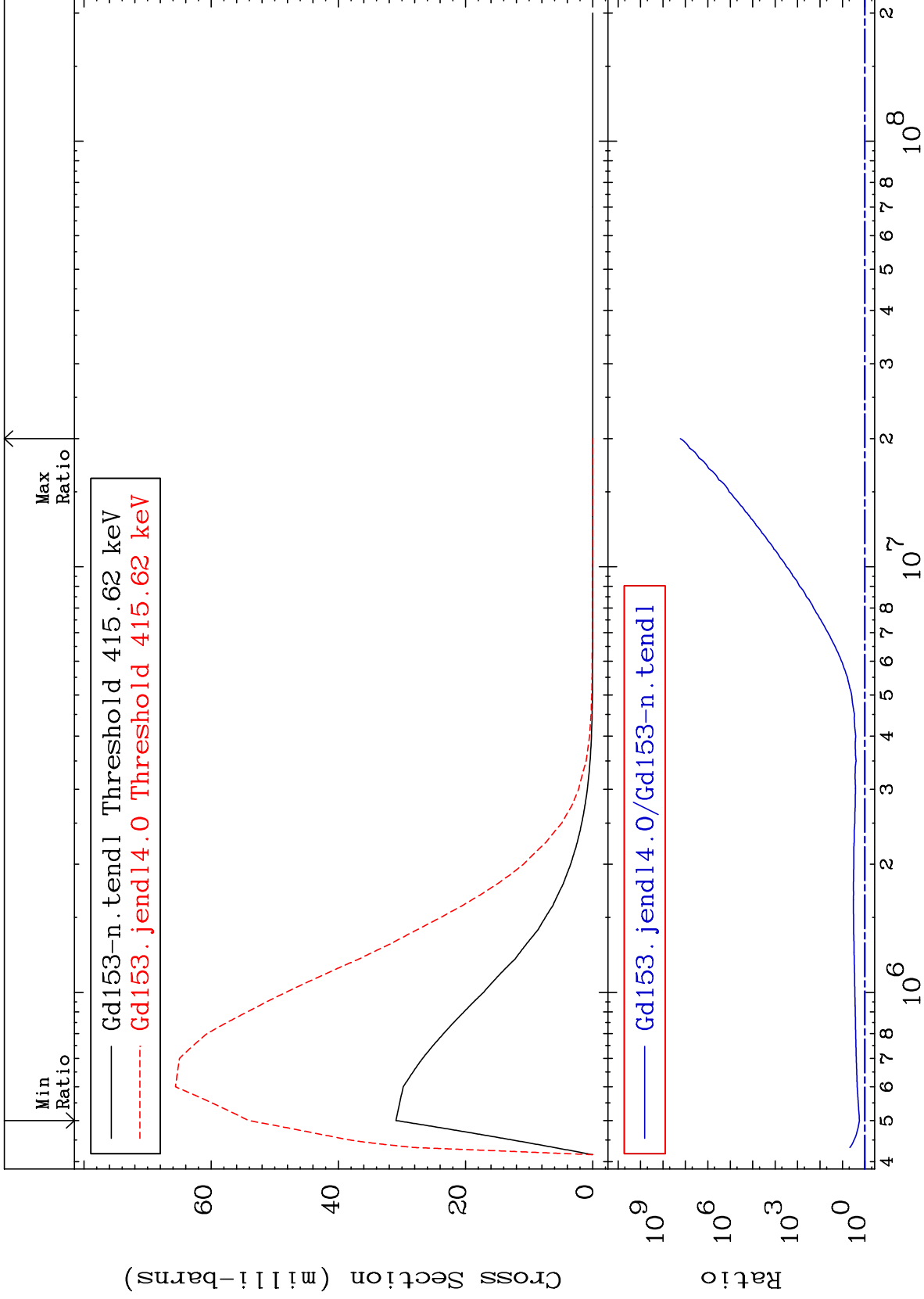
64-Gd-153
-99.97 To -9.025%



MAT 6428

412.9 keV (n,n') Level
Cross Section

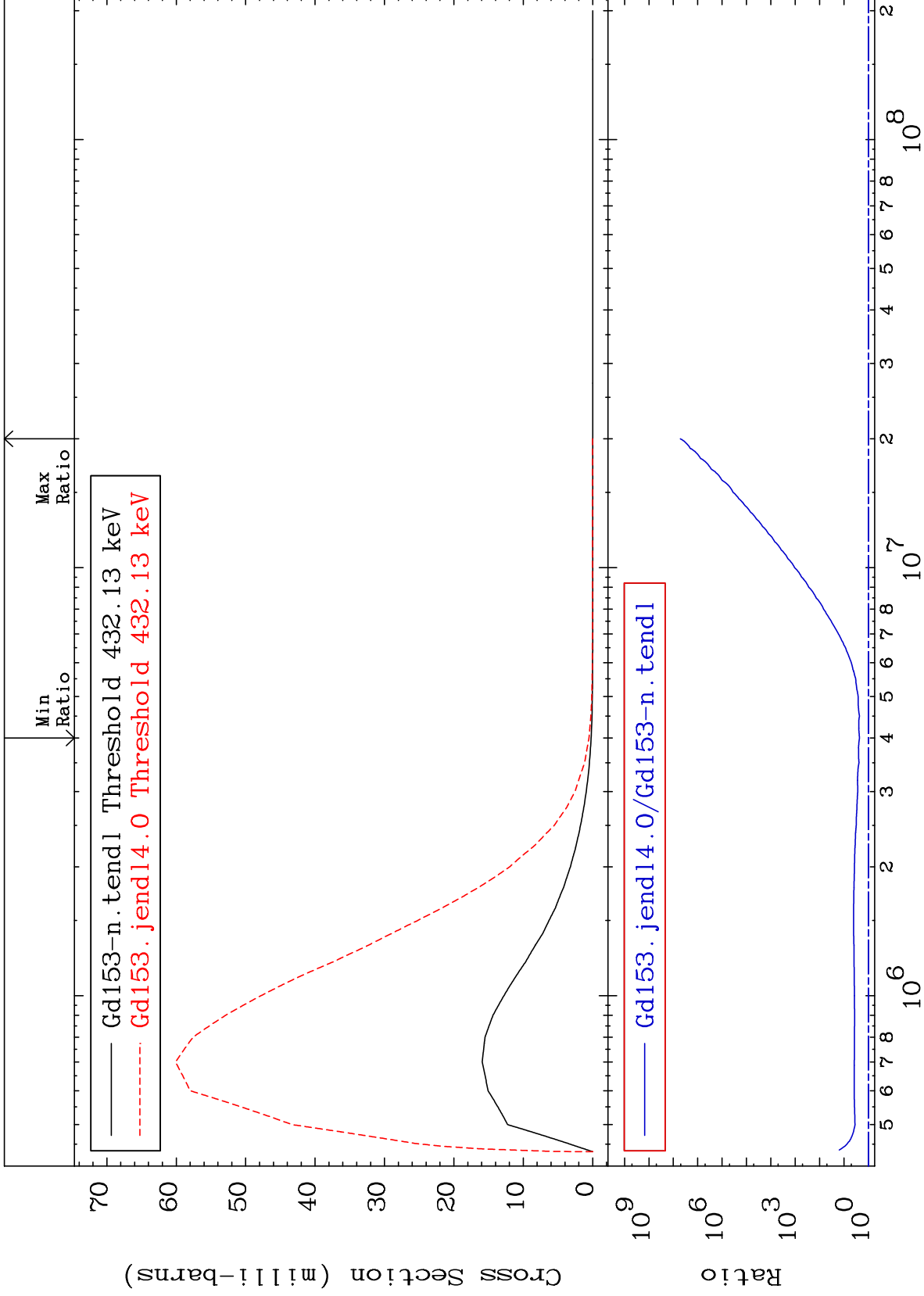
64-Gd-153
74.95 To 9999. %



MAT 6428

429.3 keV (n,n') Level
Cross Section

64-Gd-153
132.7 To 9999. %



40

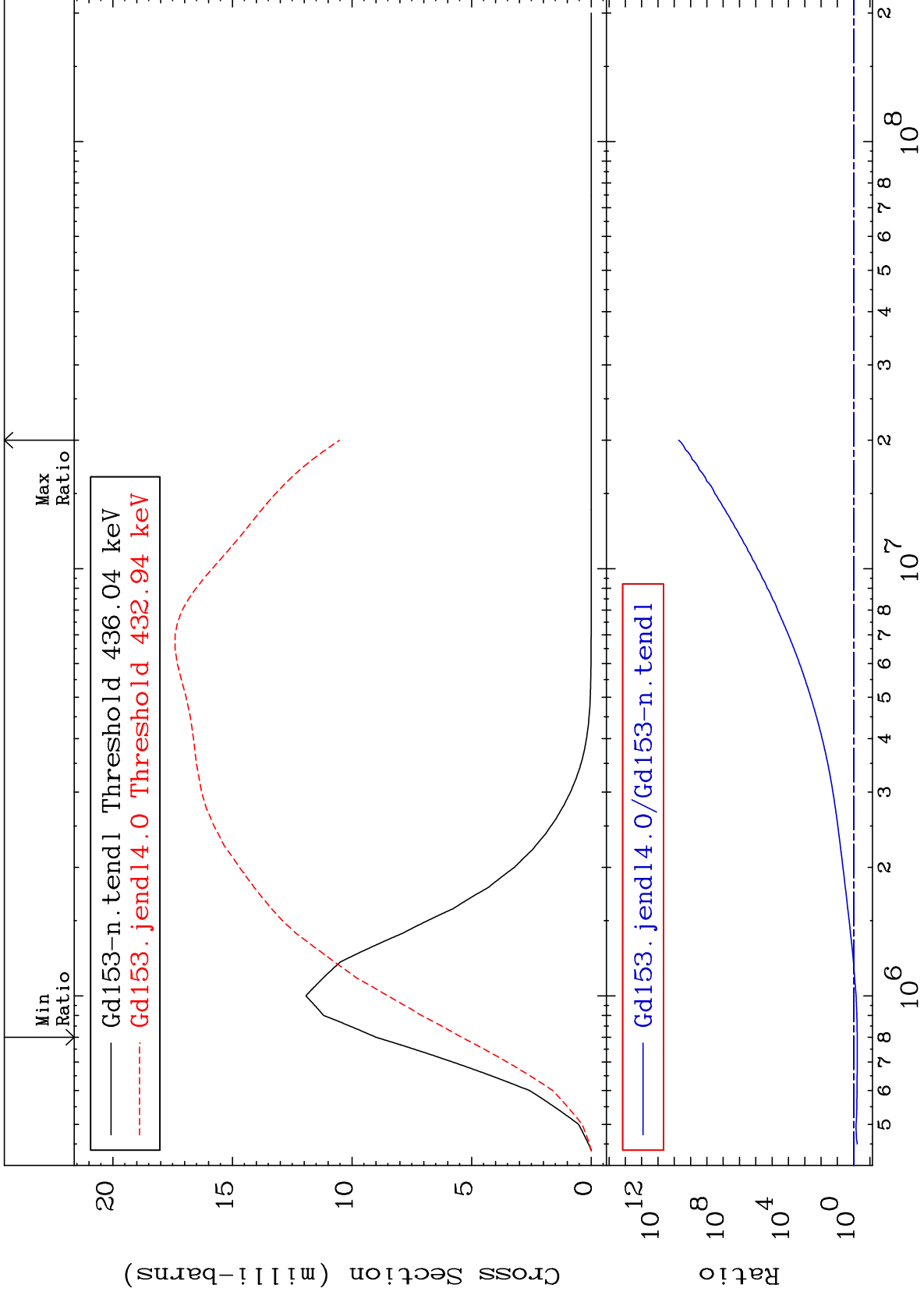
Incident Energy (eV)

64-Gd-153

MAT 6428

433.2 keV (n,n') Level
Cross Section

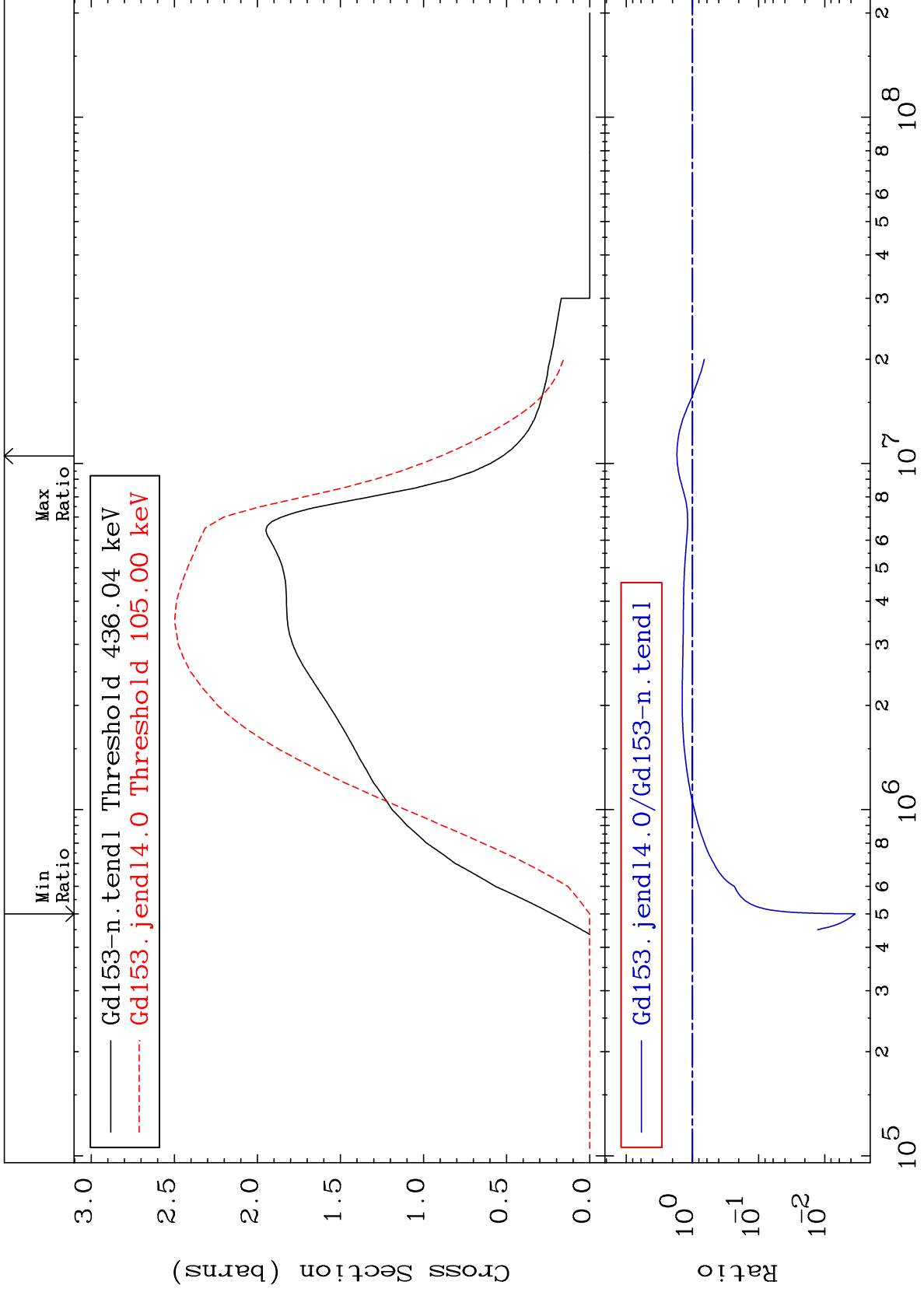
64-Gd-153
-39.76 To 9999. %



MAT 6428

(n, n') Continuum
Cross Section

64-Gd-153
-99.65 To 71.23 %



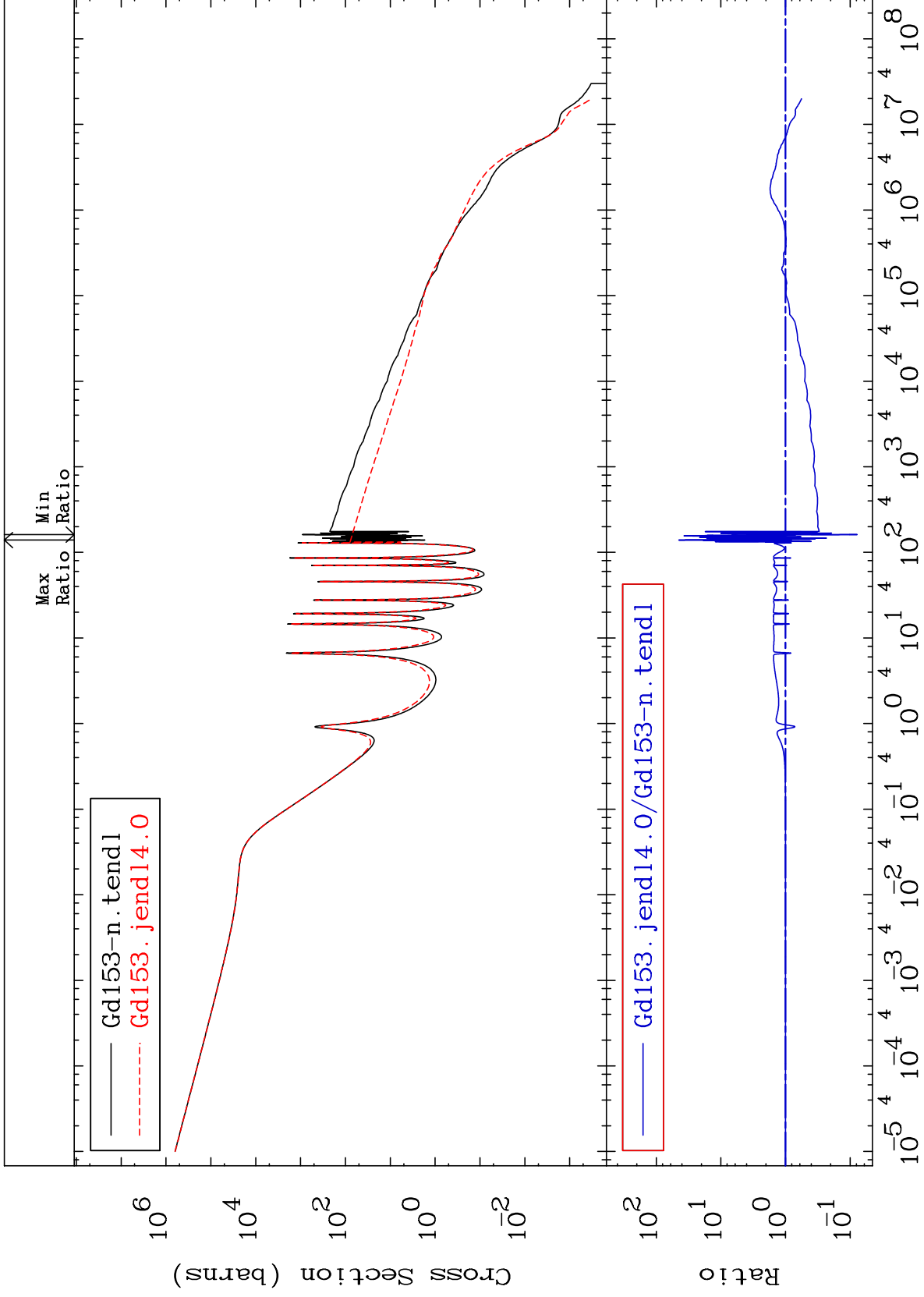
42

64-Gd-153

MAT 6428

(n, γ)
Cross Section

64-Gd-153
-92.25 To 4406. %



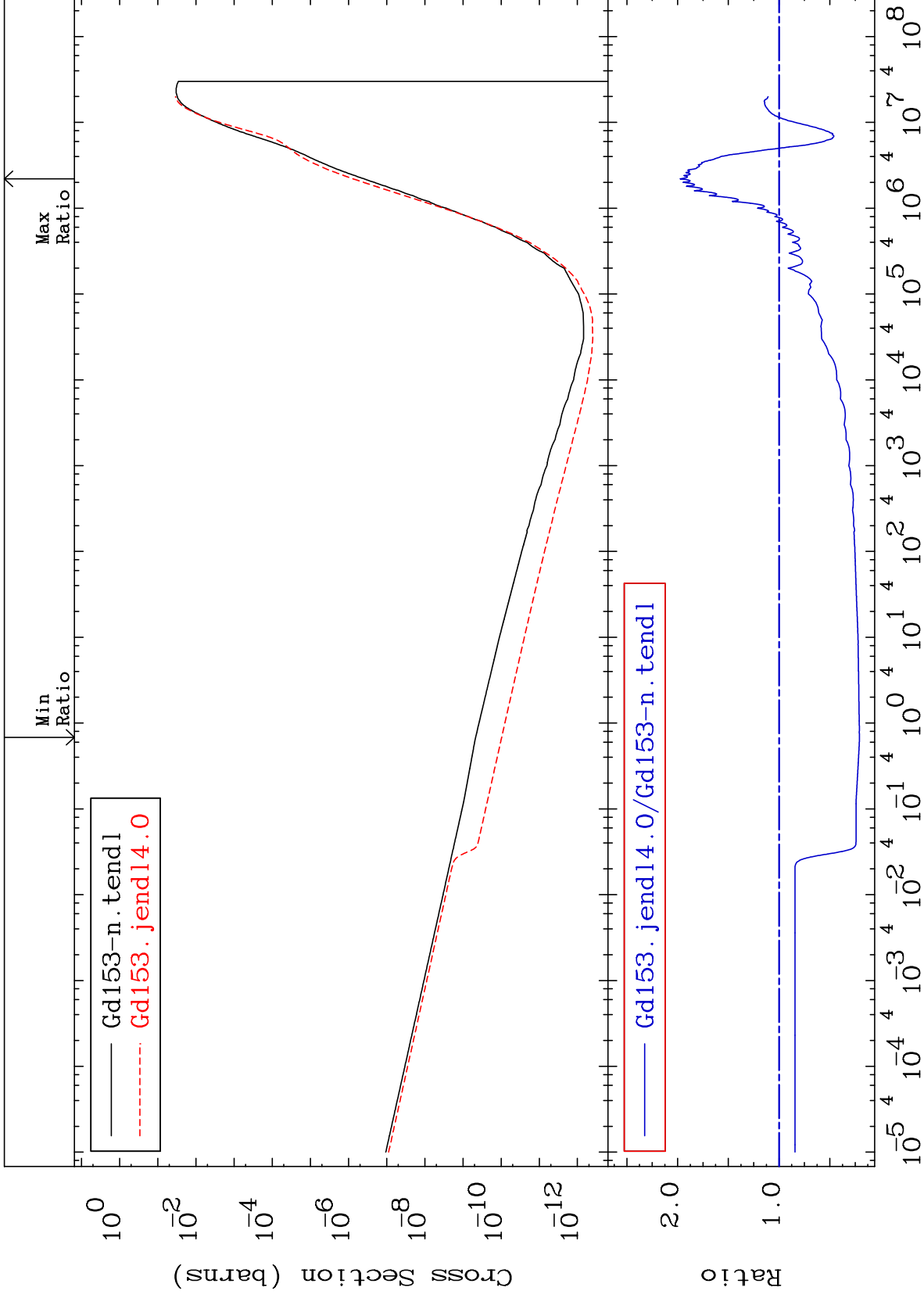
MAT 6428

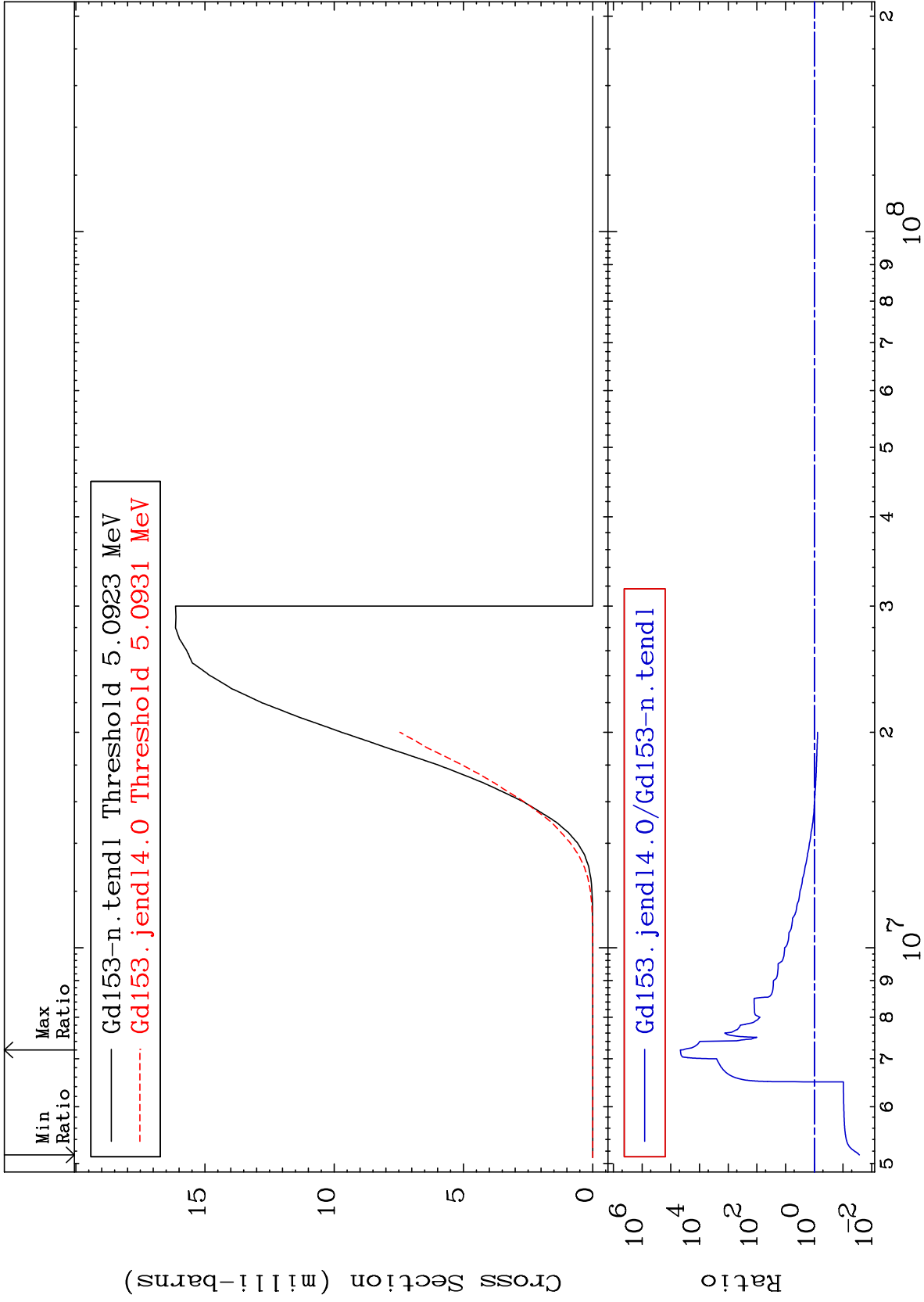
(n, p)

64-Gd-153

Cross Section

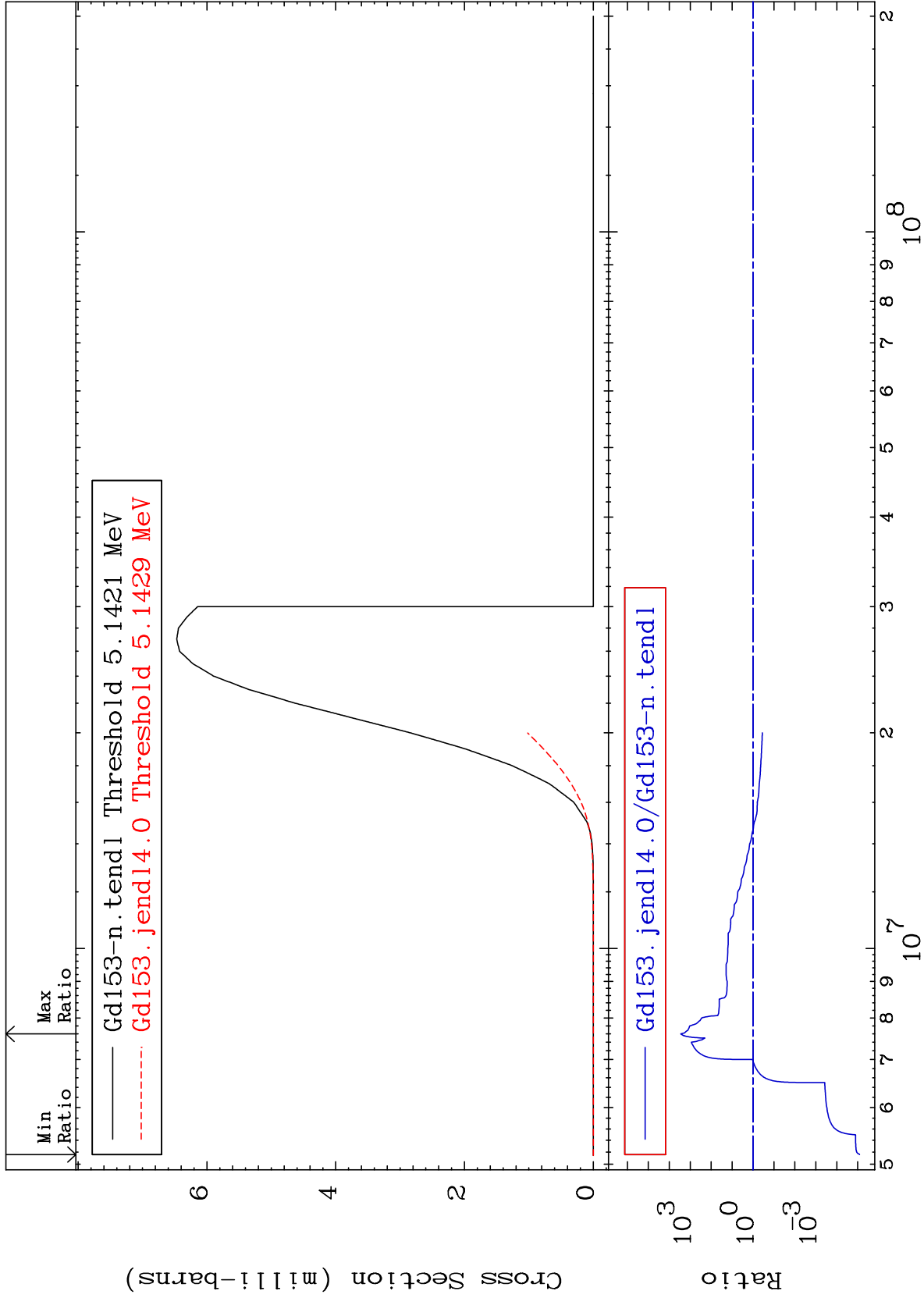
-79.22 To 97.25 %





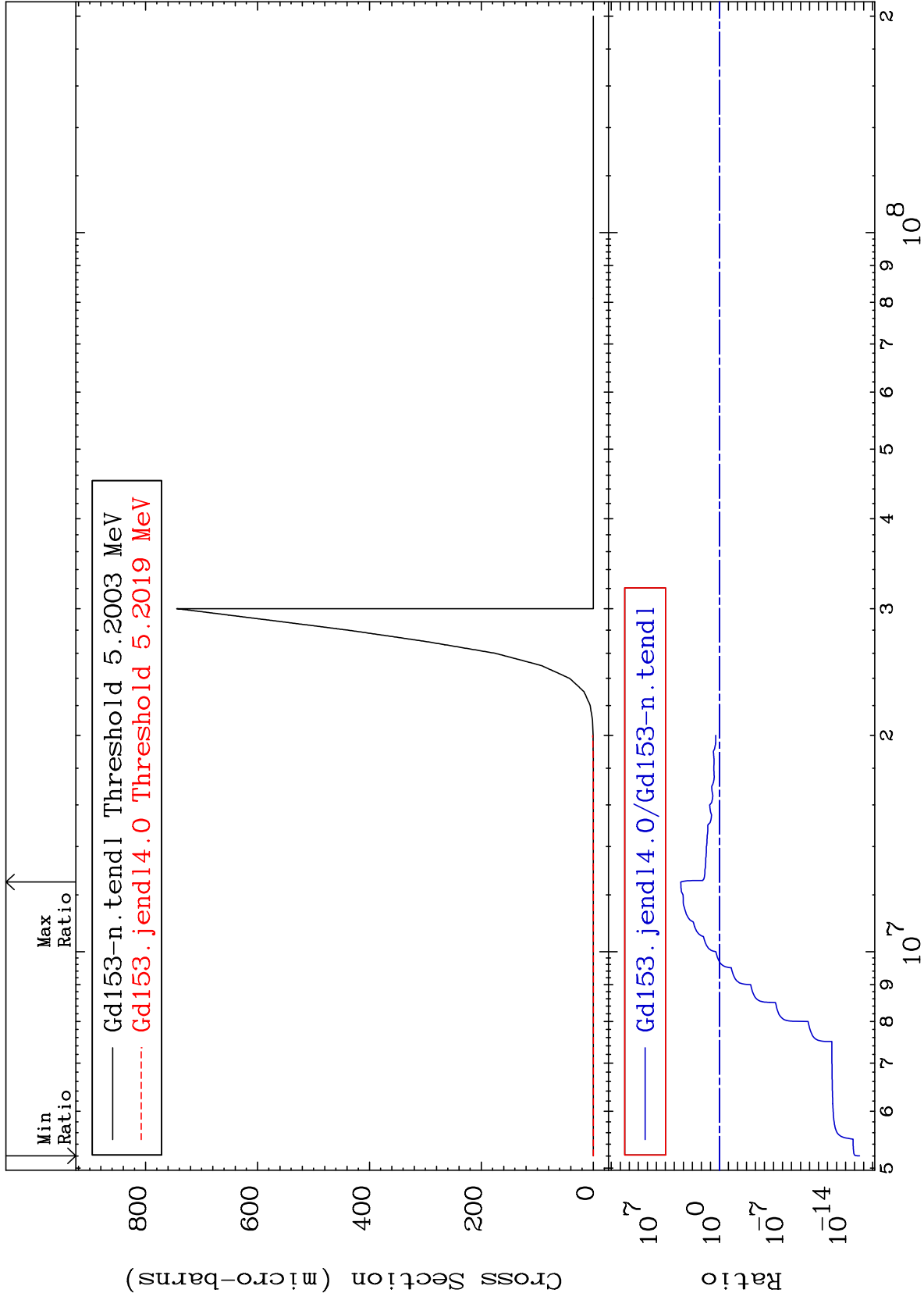
Cross Section

-100.0 To 9999. %



Cross Section

-100.0 To 9999. %



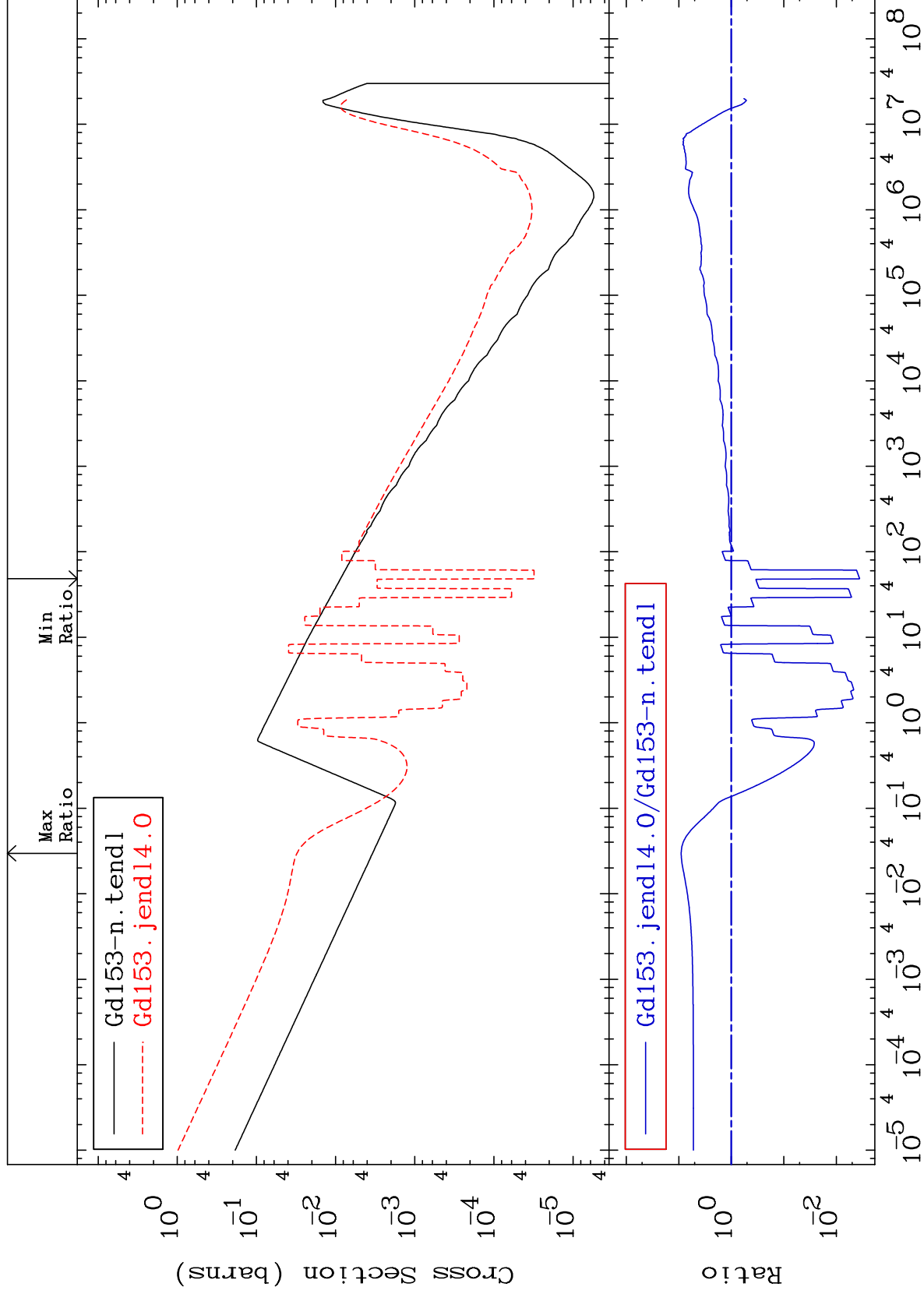
MAT 6428

(n, α)

64-Gd-153

Cross Section

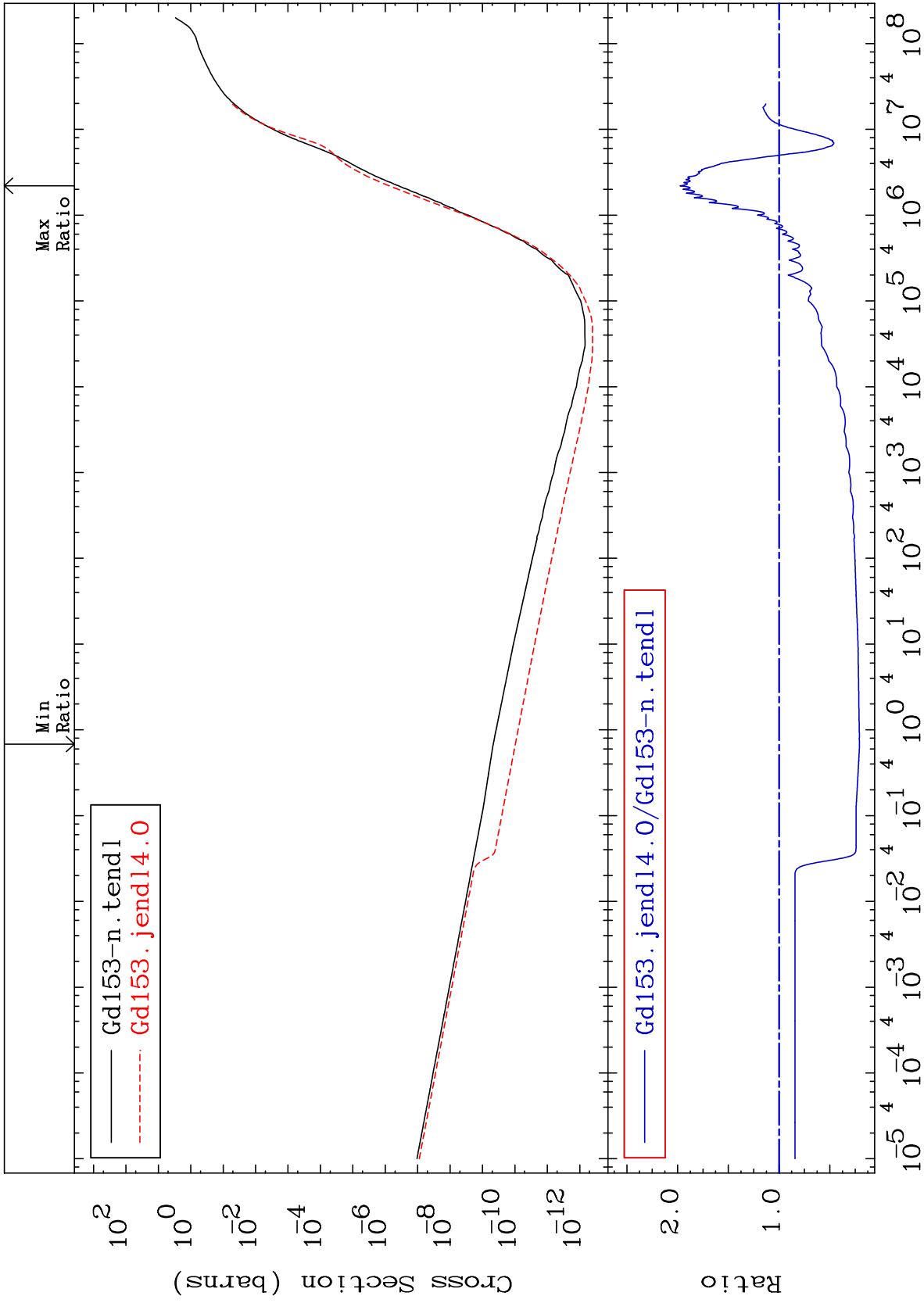
-99.64 To 799.7 %



MAT 6428

Hydrogen Production Cross Section

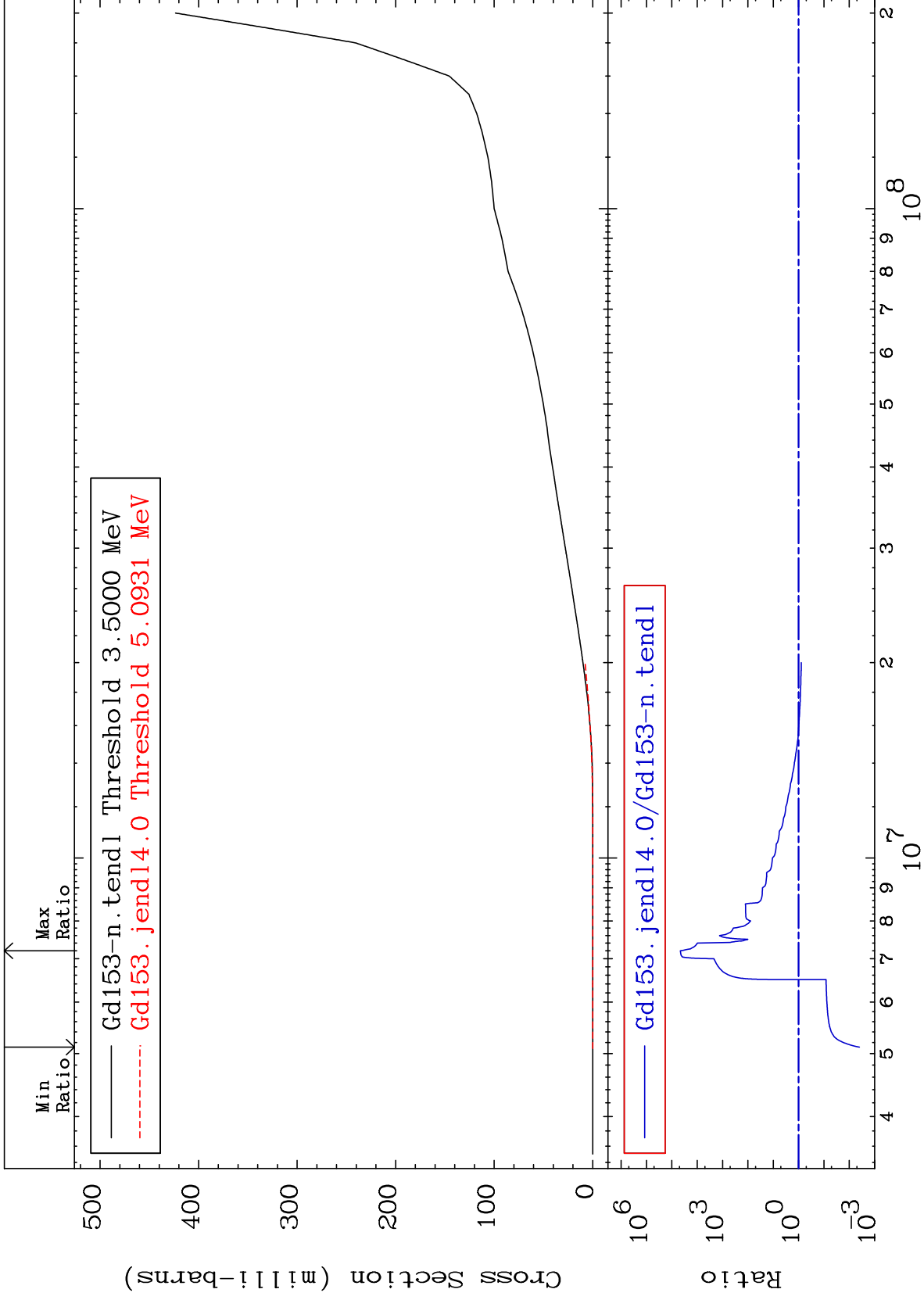
64-Gd-153
-79.22 To 97.25 %



MAT 6428

Deuterium Production
Cross Section

64-Gd-153
-99.60 To 9999. %



50

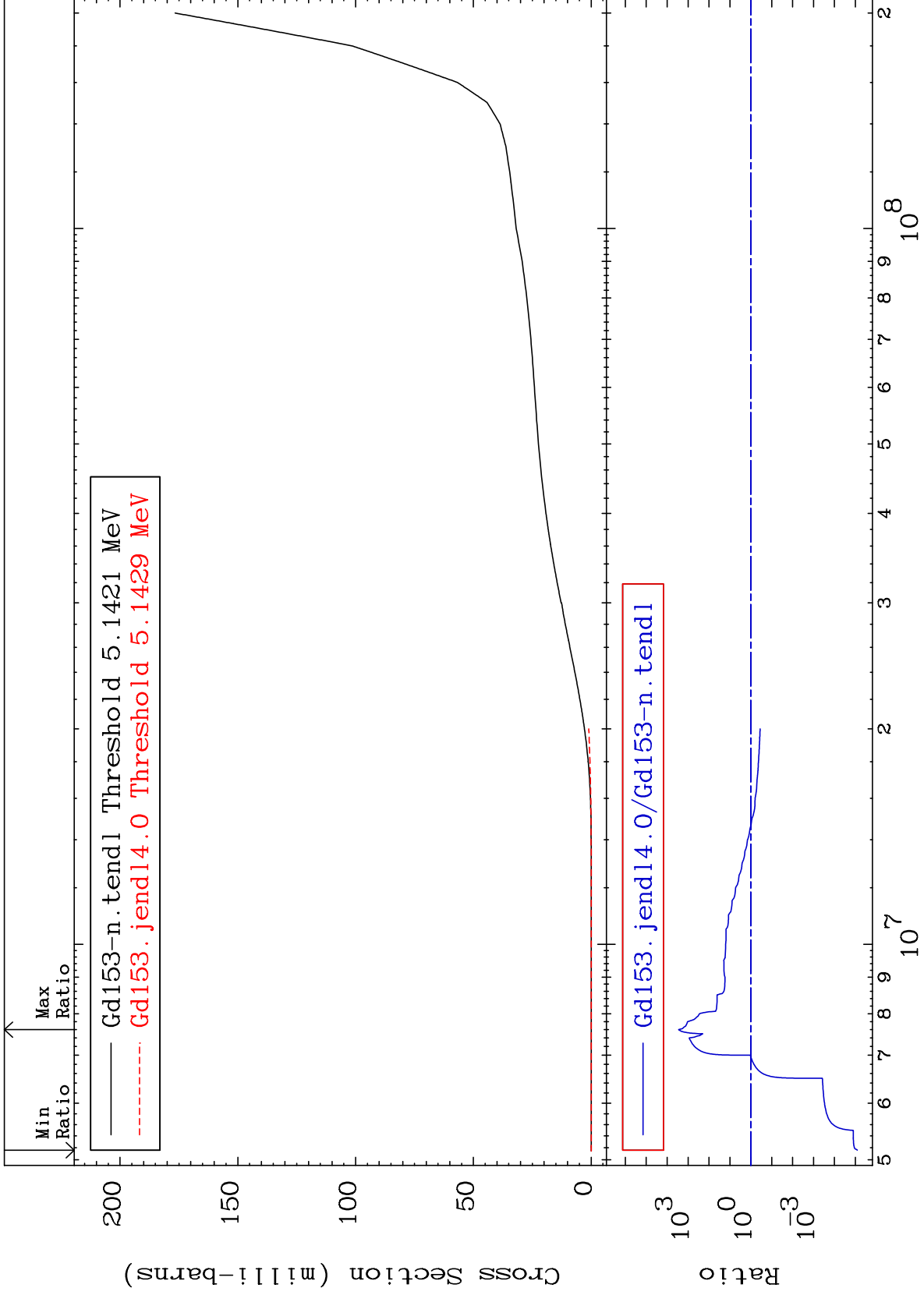
Incident Energy (eV)

64-Gd-153

MAT 6428

Tritium Production
Cross Section

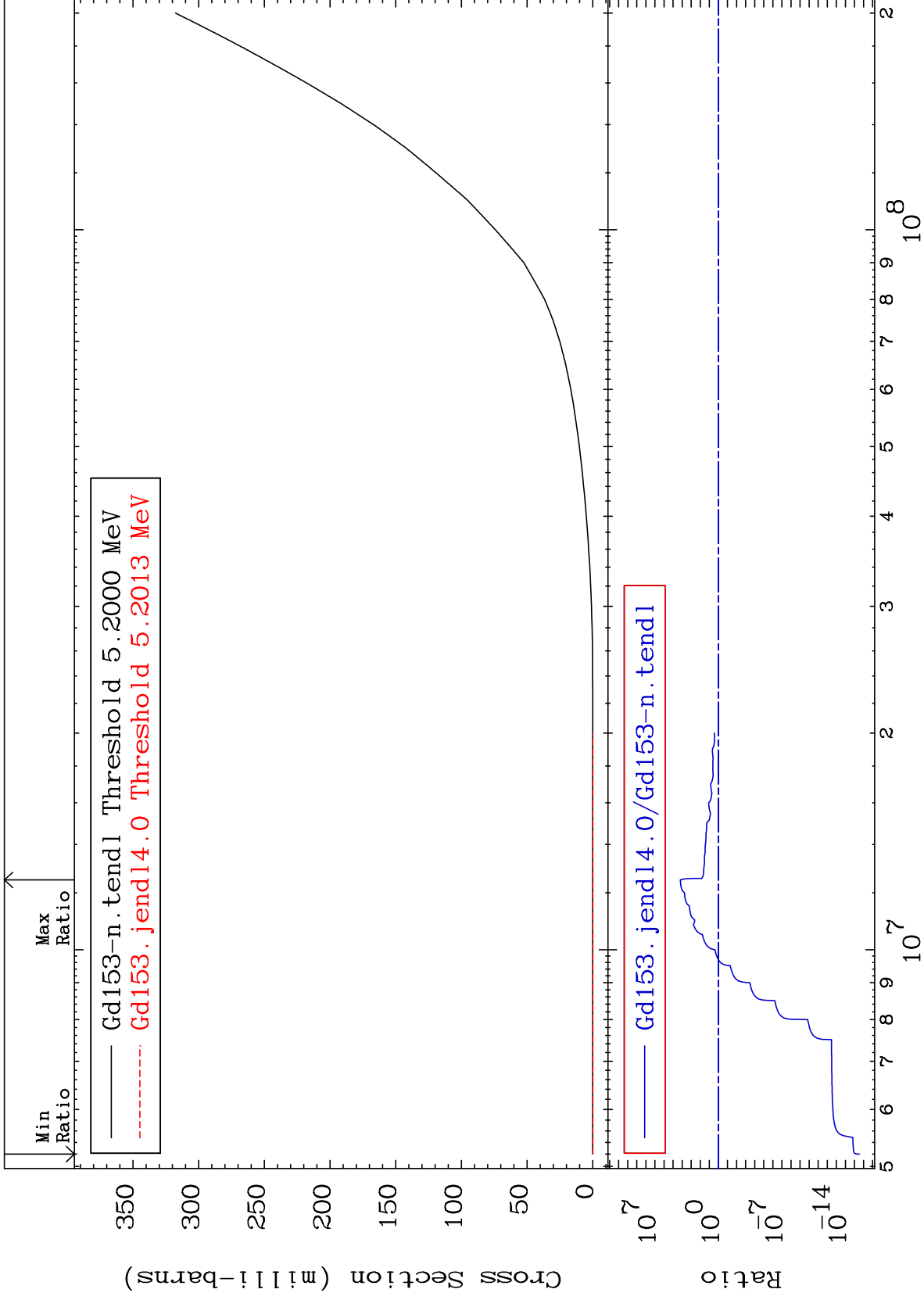
64-Gd-153
-100.0 To 9999. %



MAT 6428

He-3 Production
Cross Section

64-Gd-153
-100.0 To 9999. %



52

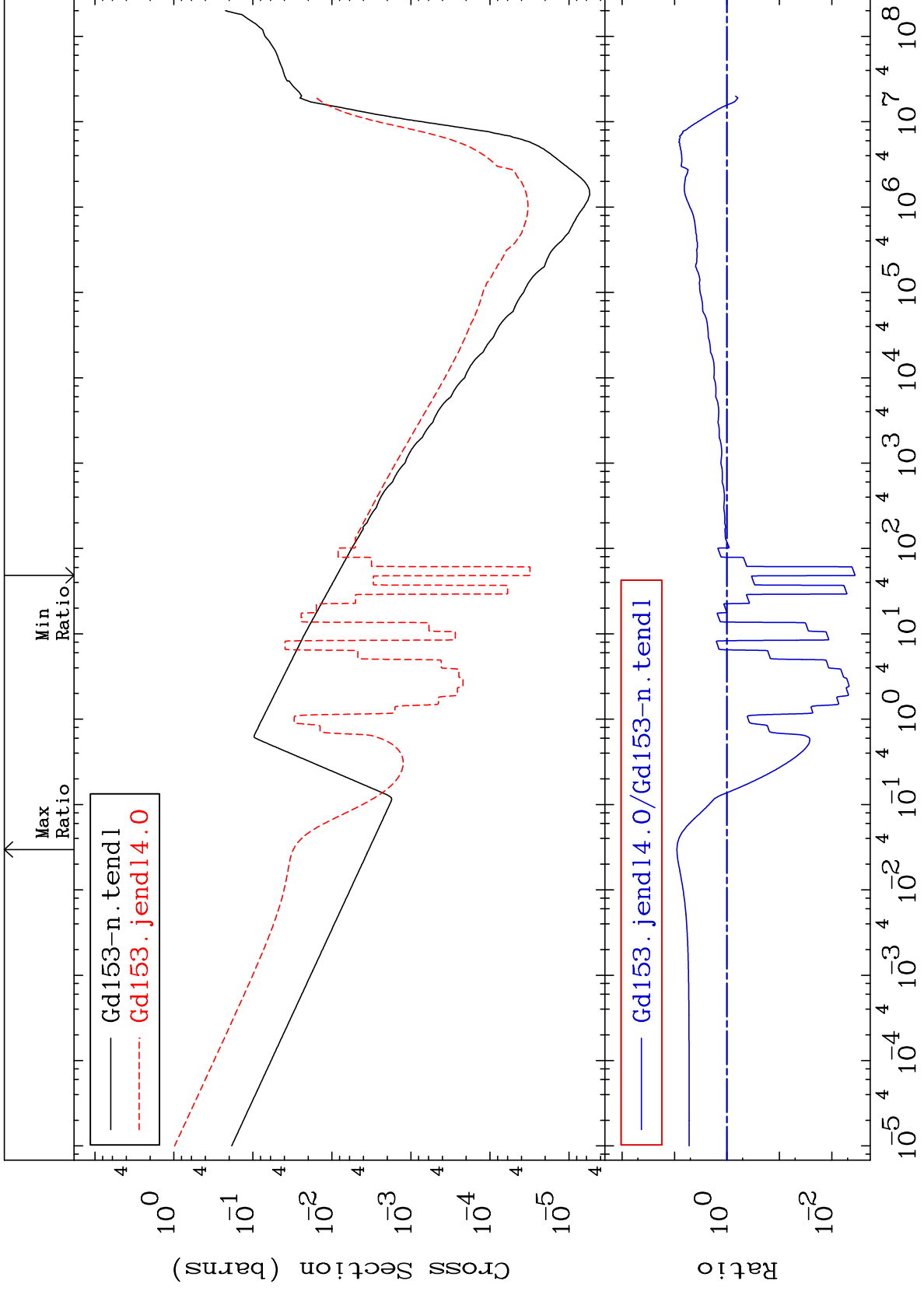
Incident Energy (eV)

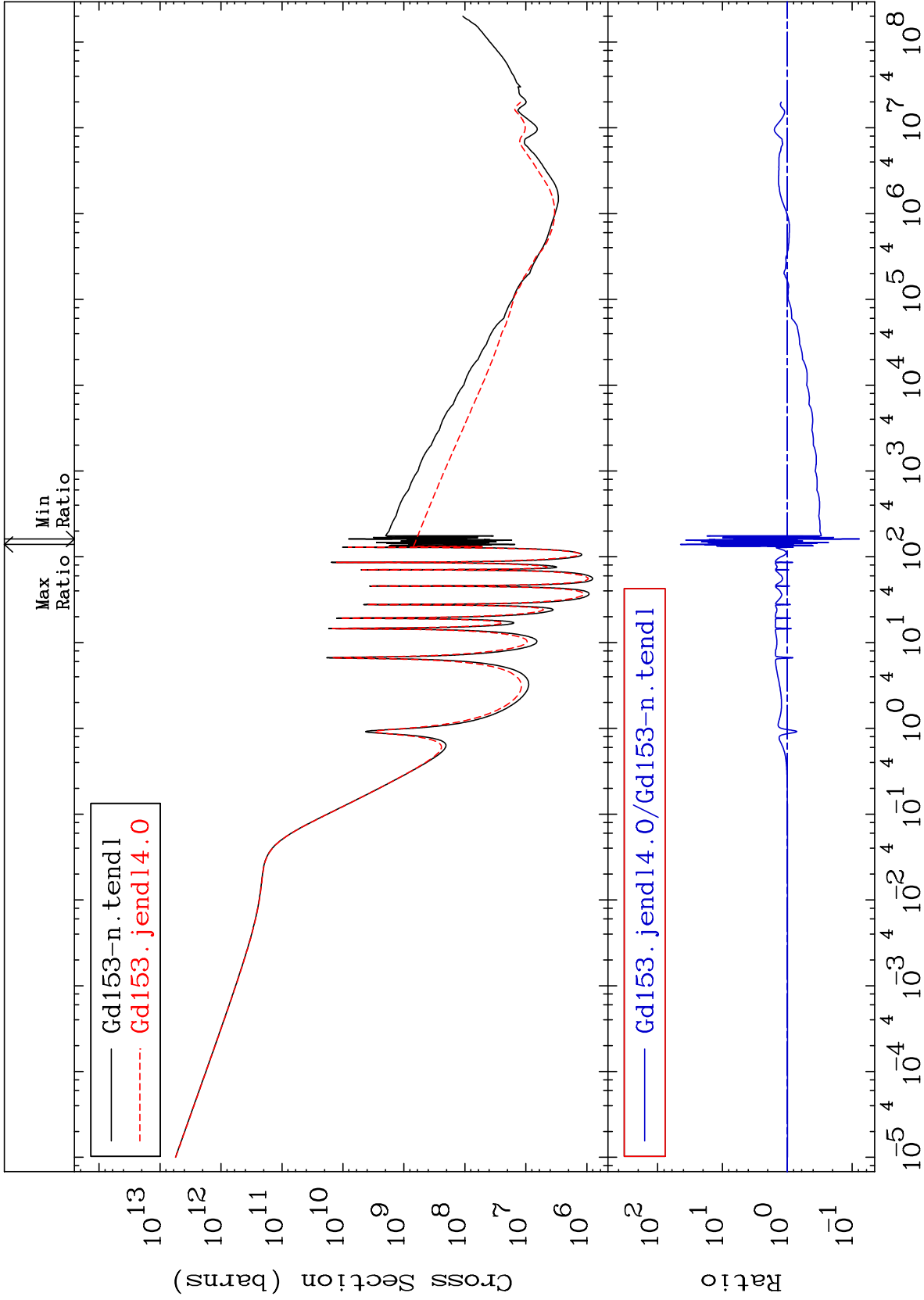
64-Gd-153

MAT 6428

He-4 Production
Cross Section

64-Gd-153
-99.64 To 799.7 %

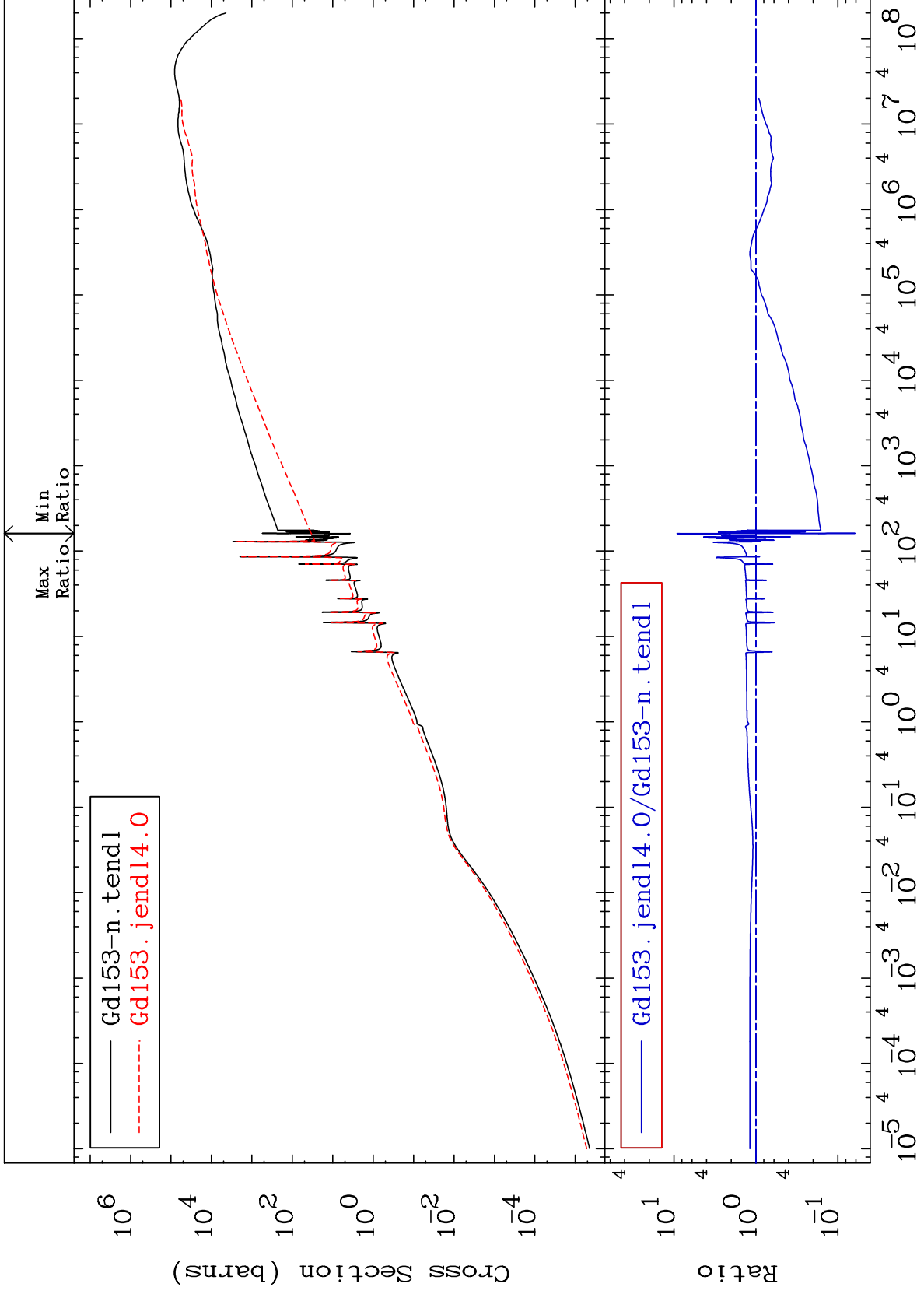


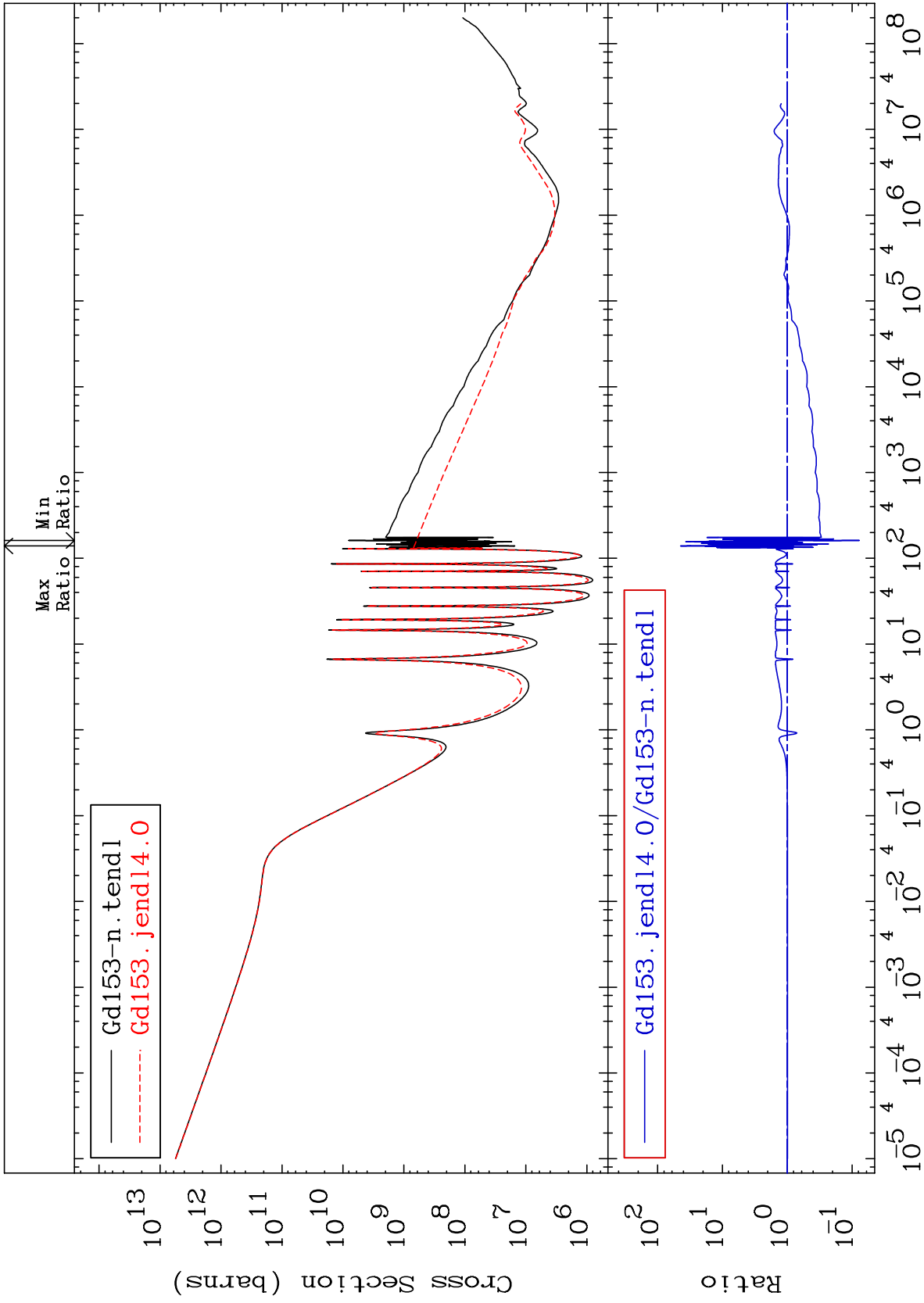


MAT 6428

Kerma elastic
Cross Section

64-Gd-153
-93.85 To 819.8 %

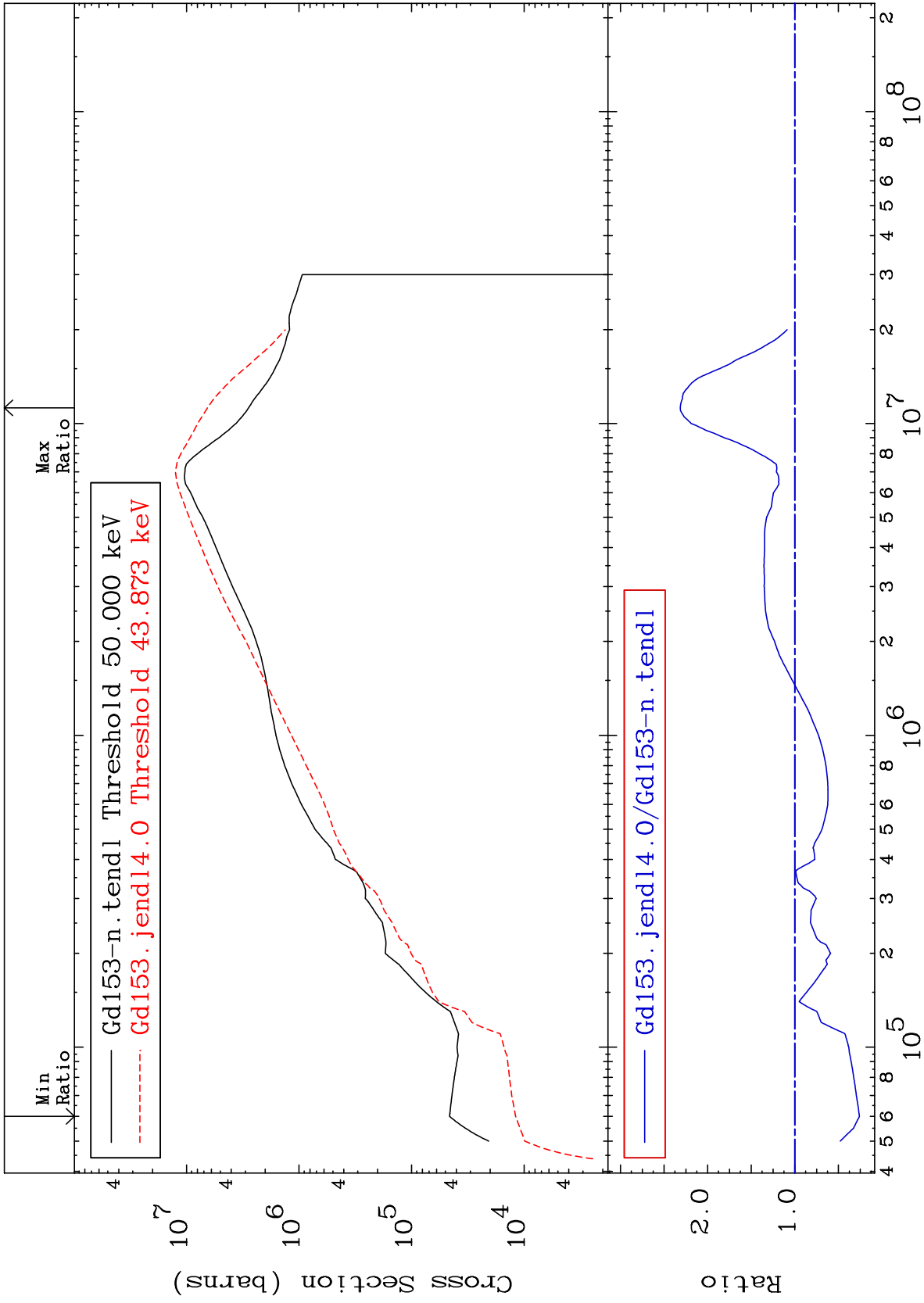




MAT 6428

Kerma inelastic (mt51-91)
Cross Section

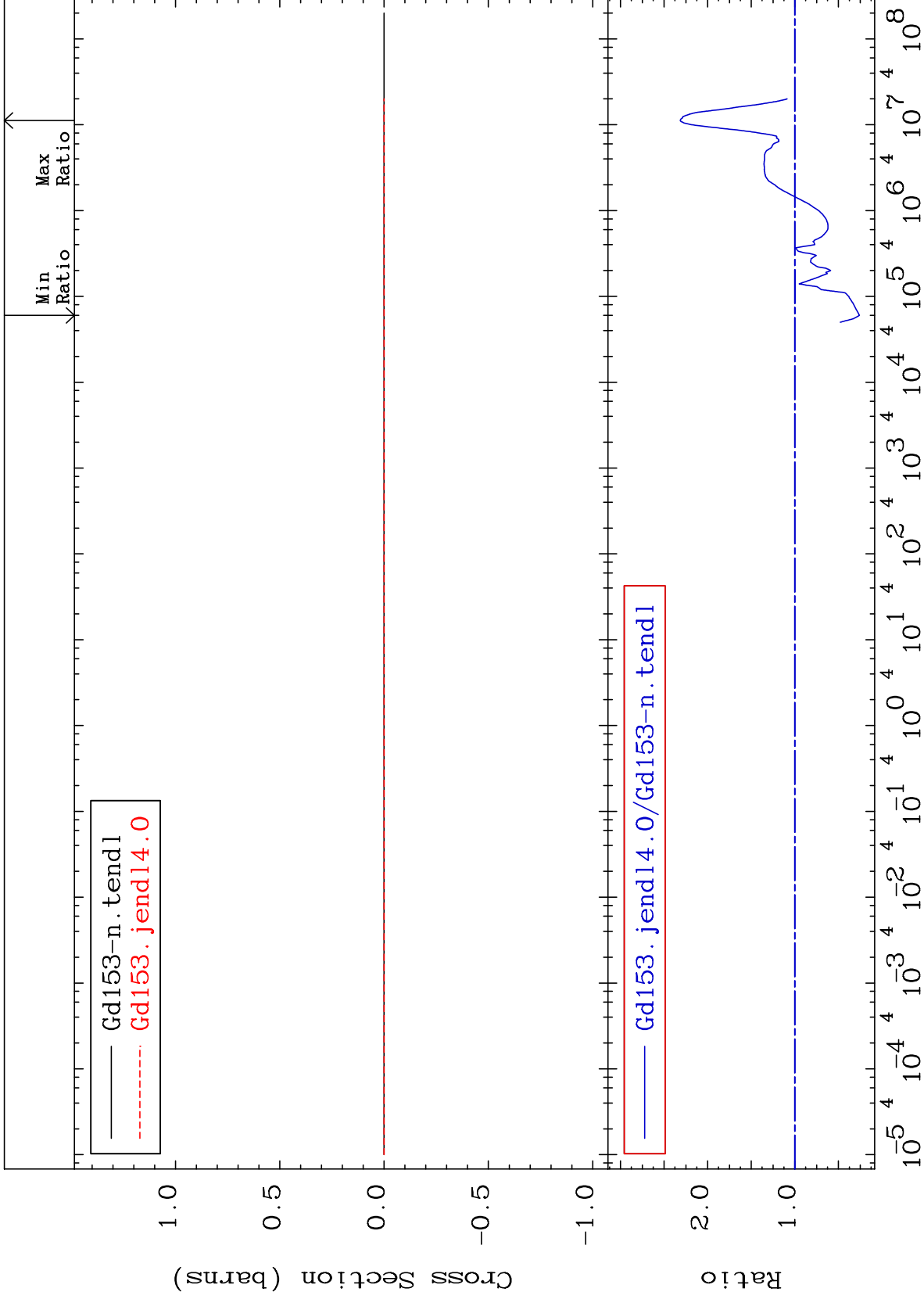
64-Gd-153
-74.10 To 131.3 %

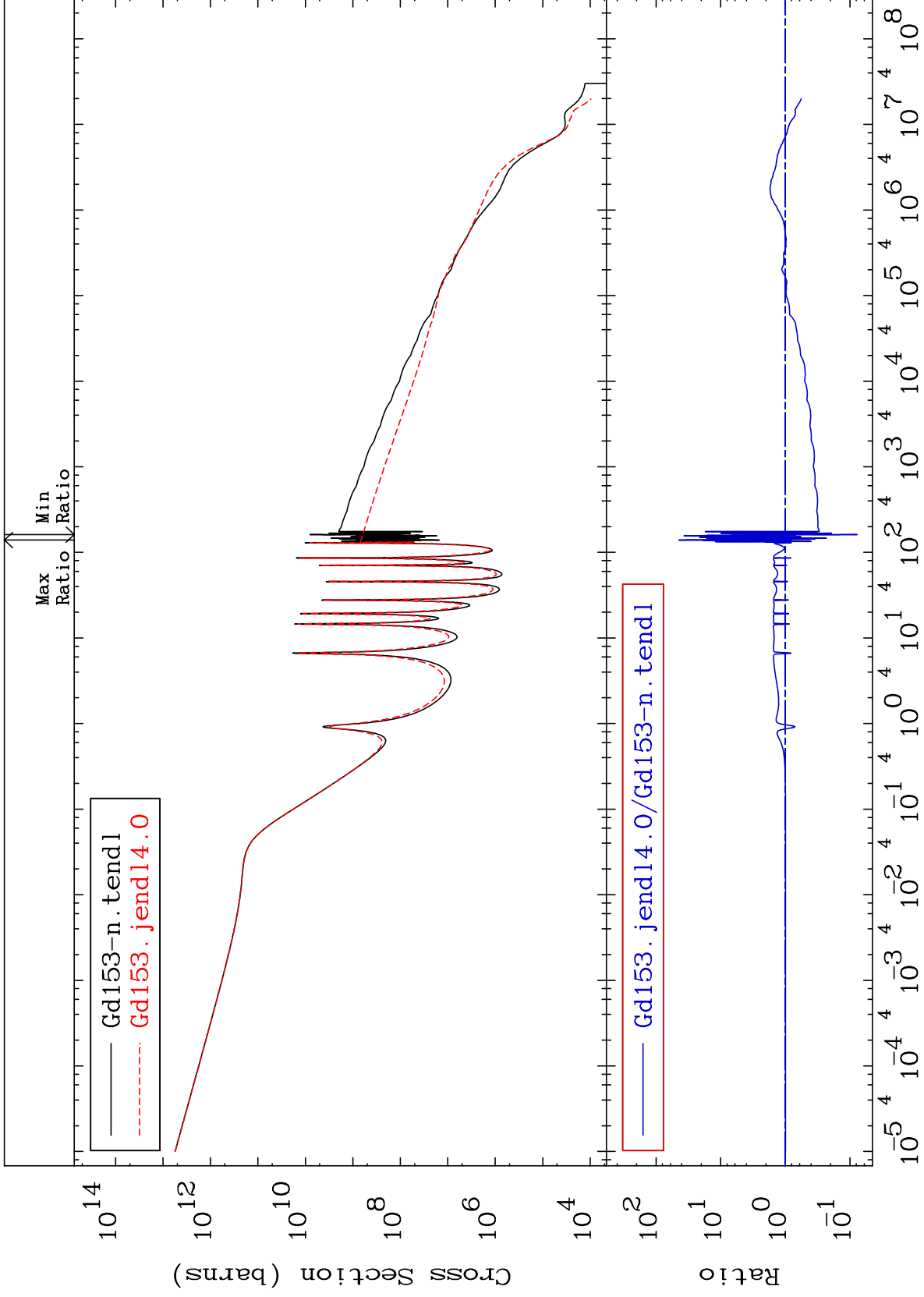


MAT 6428

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

64-Gd-153
-74.10 To 131.3 %

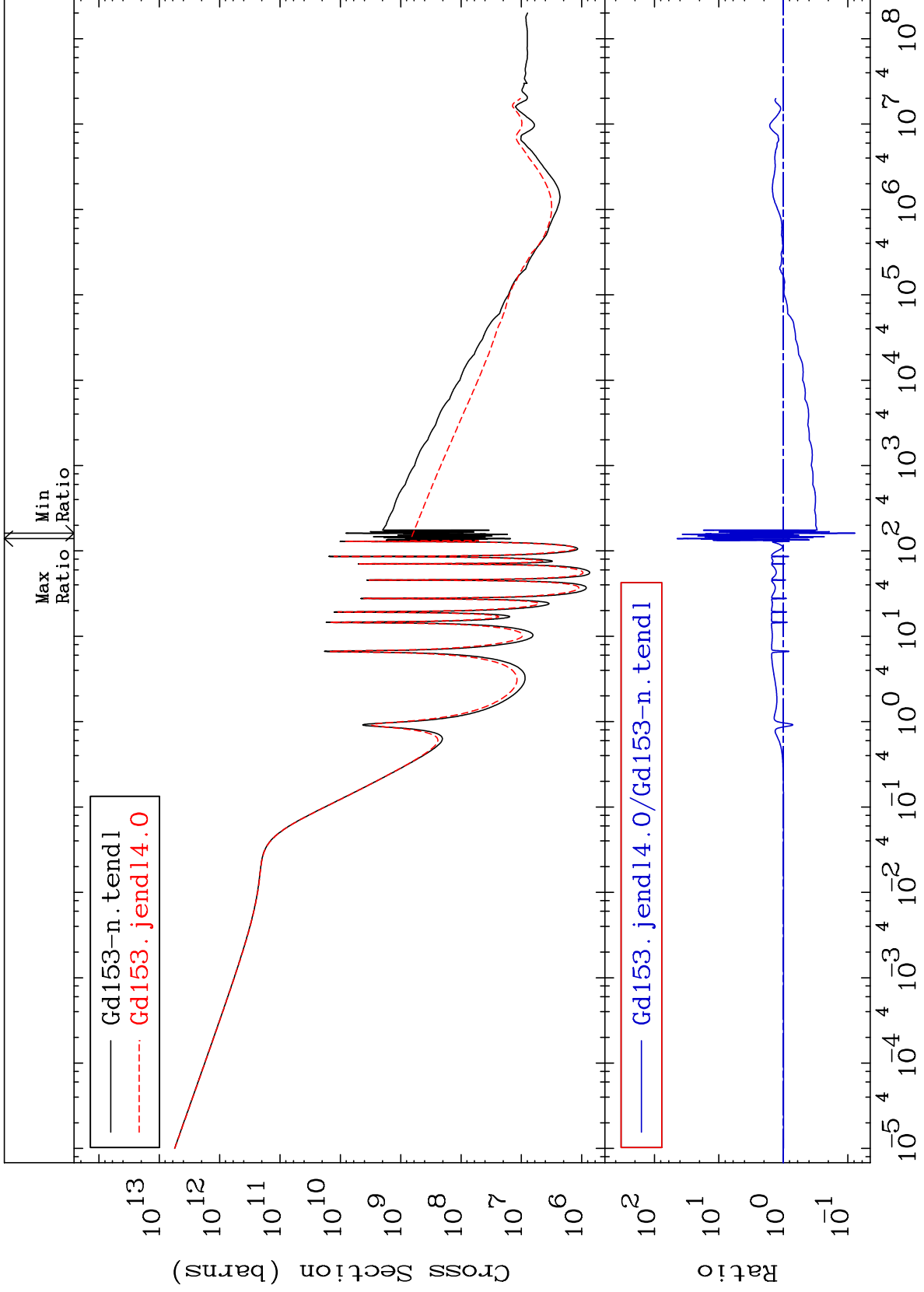




MAT 6428

Total photon (eV-barns)
Cross Section

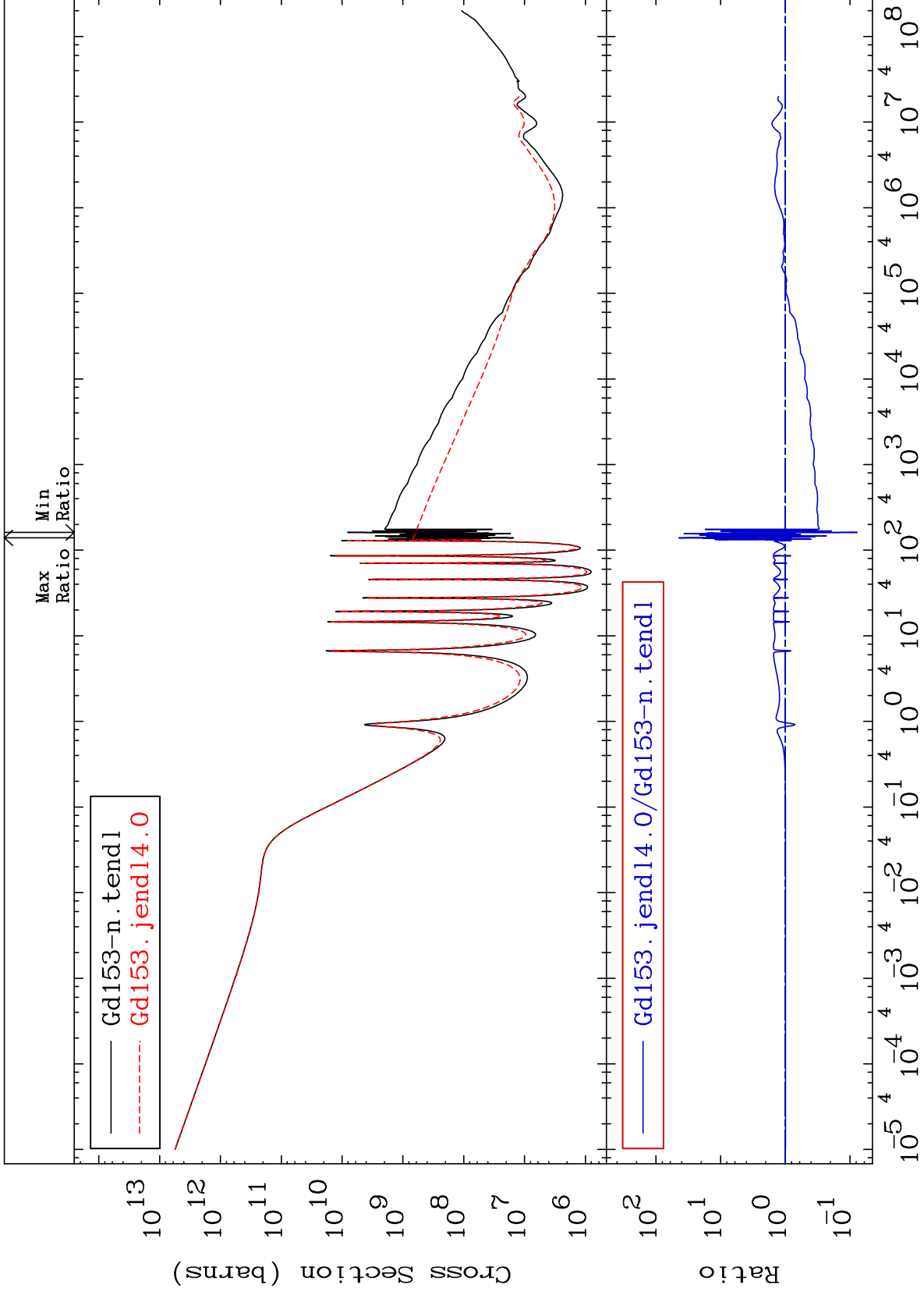
64-Gd-153
-92.30 To 4375. %



60

Incident Energy (eV)

64-Gd-153



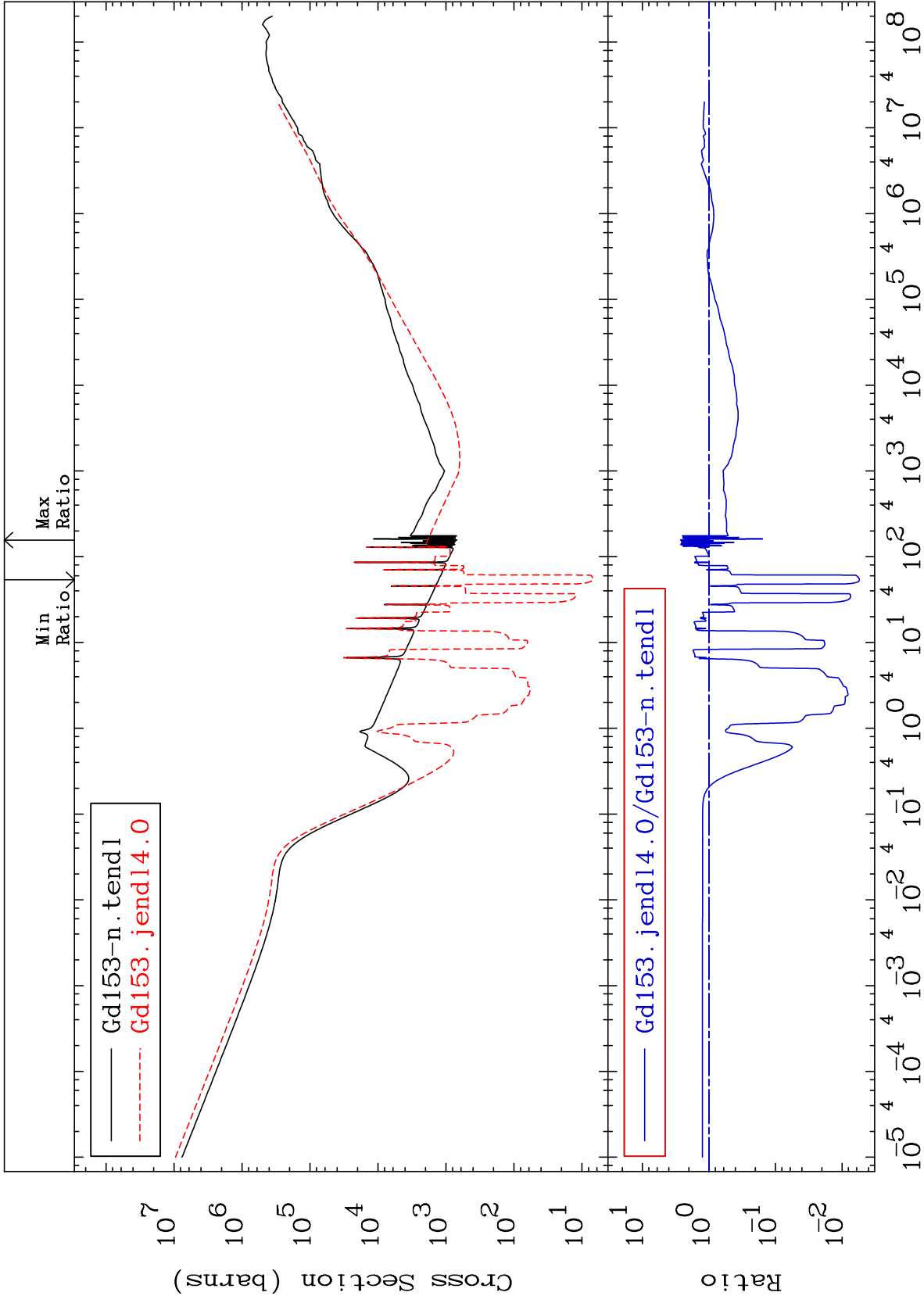
MAT 6428

Dpa total (eV-barns)

64-Gd-153

Cross Section

-99.45 To 168.7 %



62

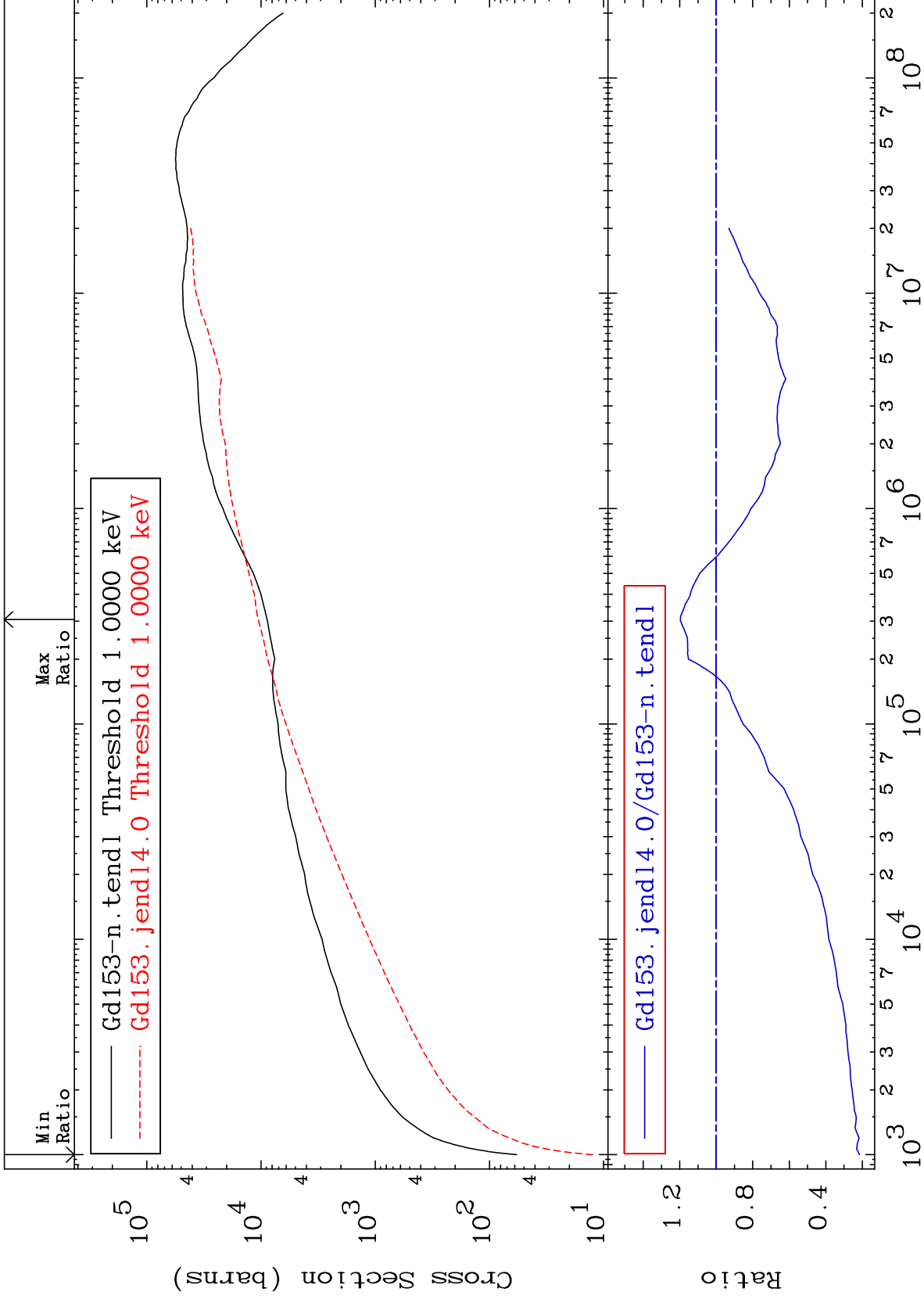
Incident Energy (eV)

64-Gd-153

MAT 6428

Dpa elastic (mt2)
Cross Section

64-Gd-153
-78.41 To 19.65 %



63

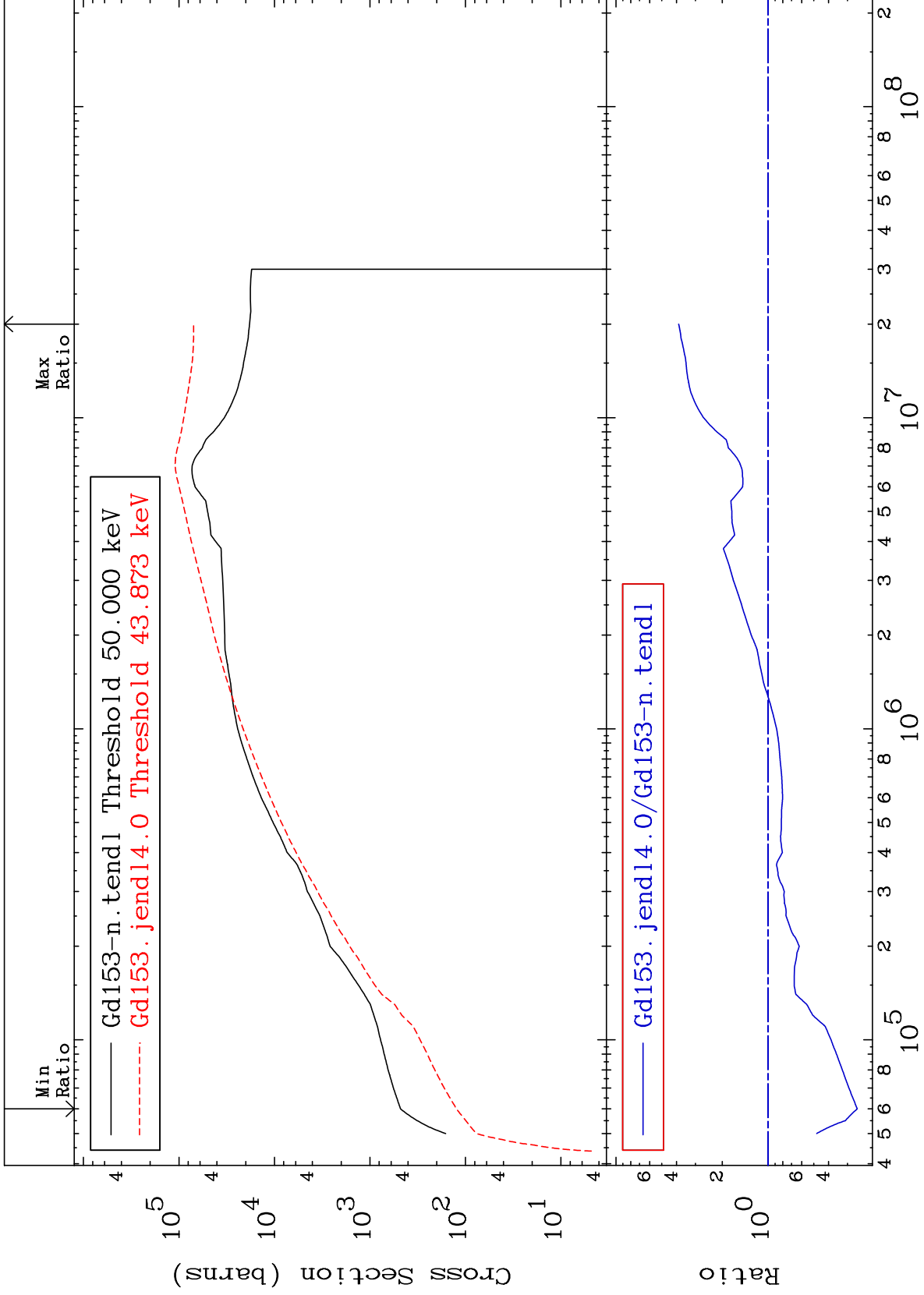
Incident Energy (eV)

64-Gd-153

MAT 6428

Dpa inelastic (mt51-91)
Cross Section

64-Gd-153
-74.09 To 287.0 %



64

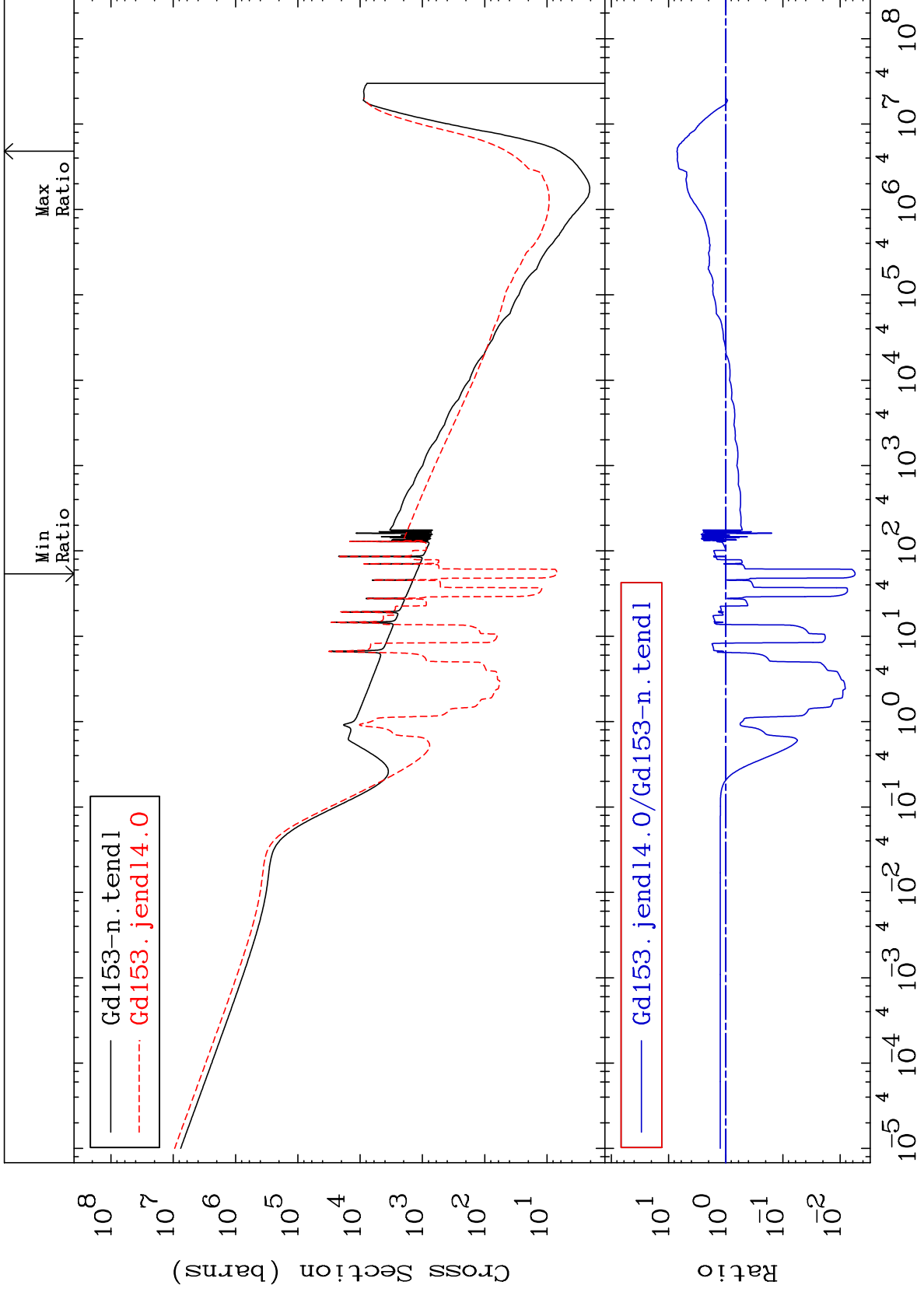
Incident Energy (eV)

64-Gd-153

MAT 6428

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-153
-99.45 To 614.6 %



65

Incident Energy (eV)

64-Gd-153