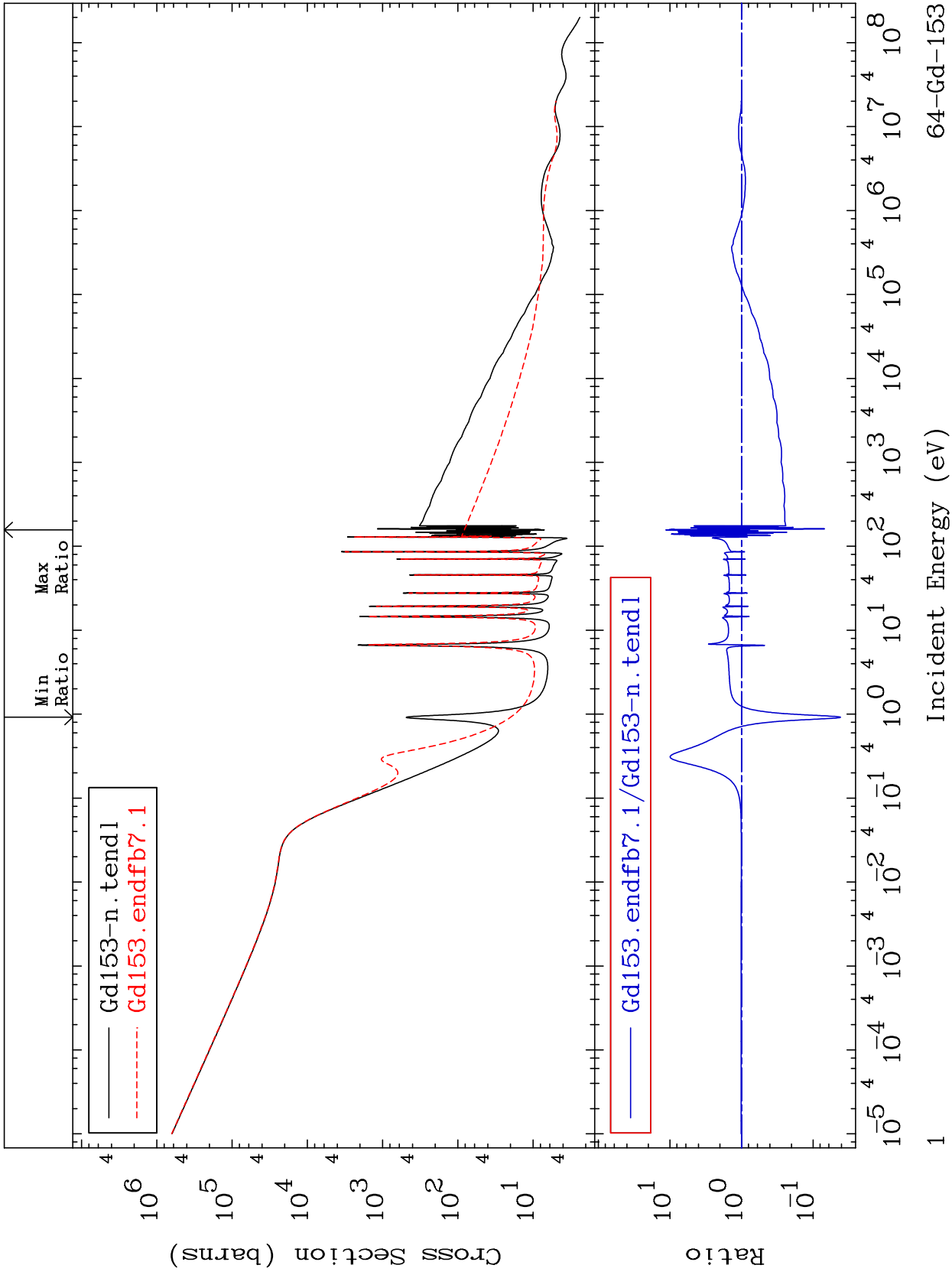


MAT 6428

Total Cross Section
64-Gd-153
-95.89 To 1053. %

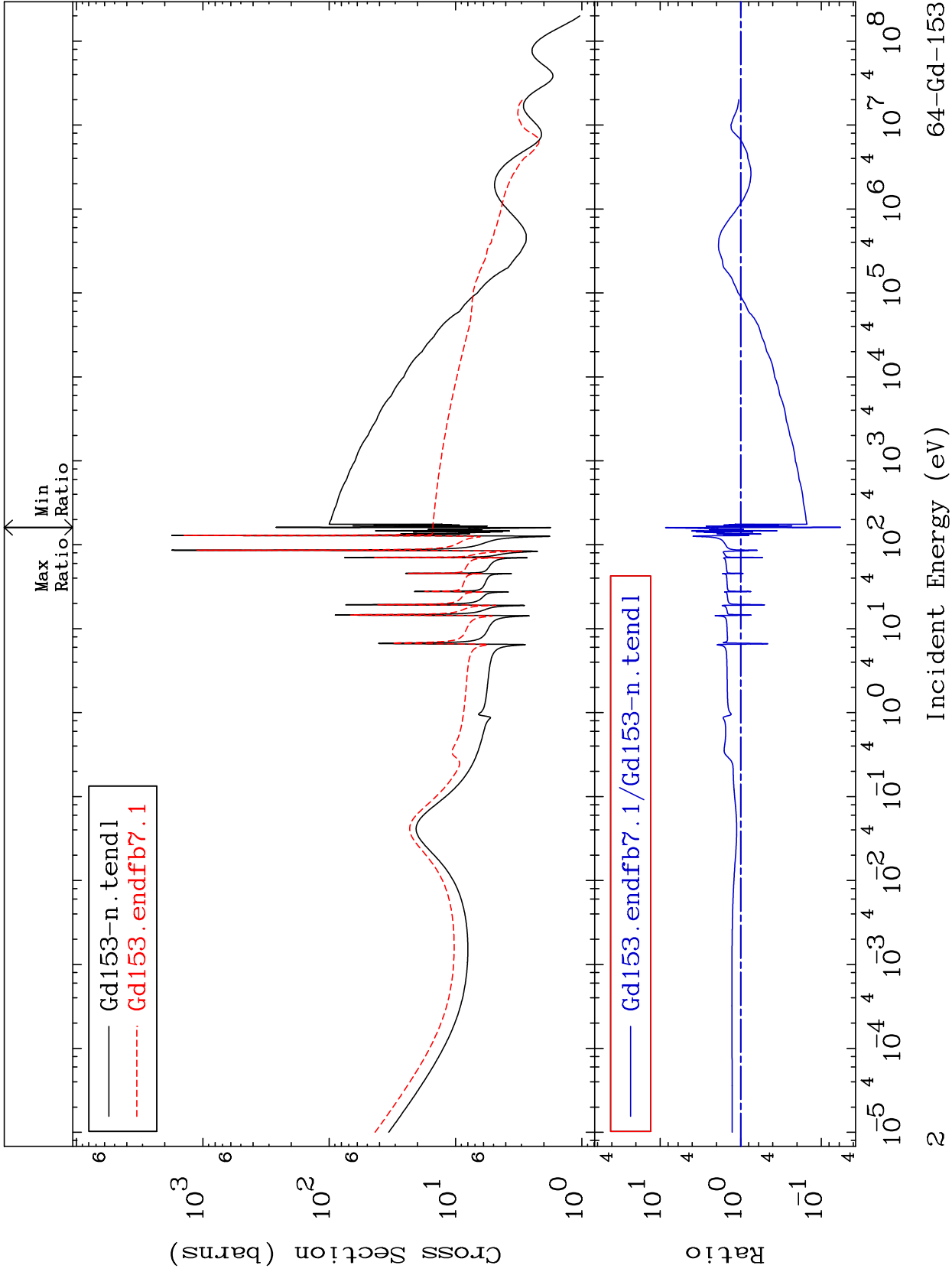


64-Gd-153

MAT 6428

Elastic
Cross Section

64-Gd-153
-94.25 To 760.0 %

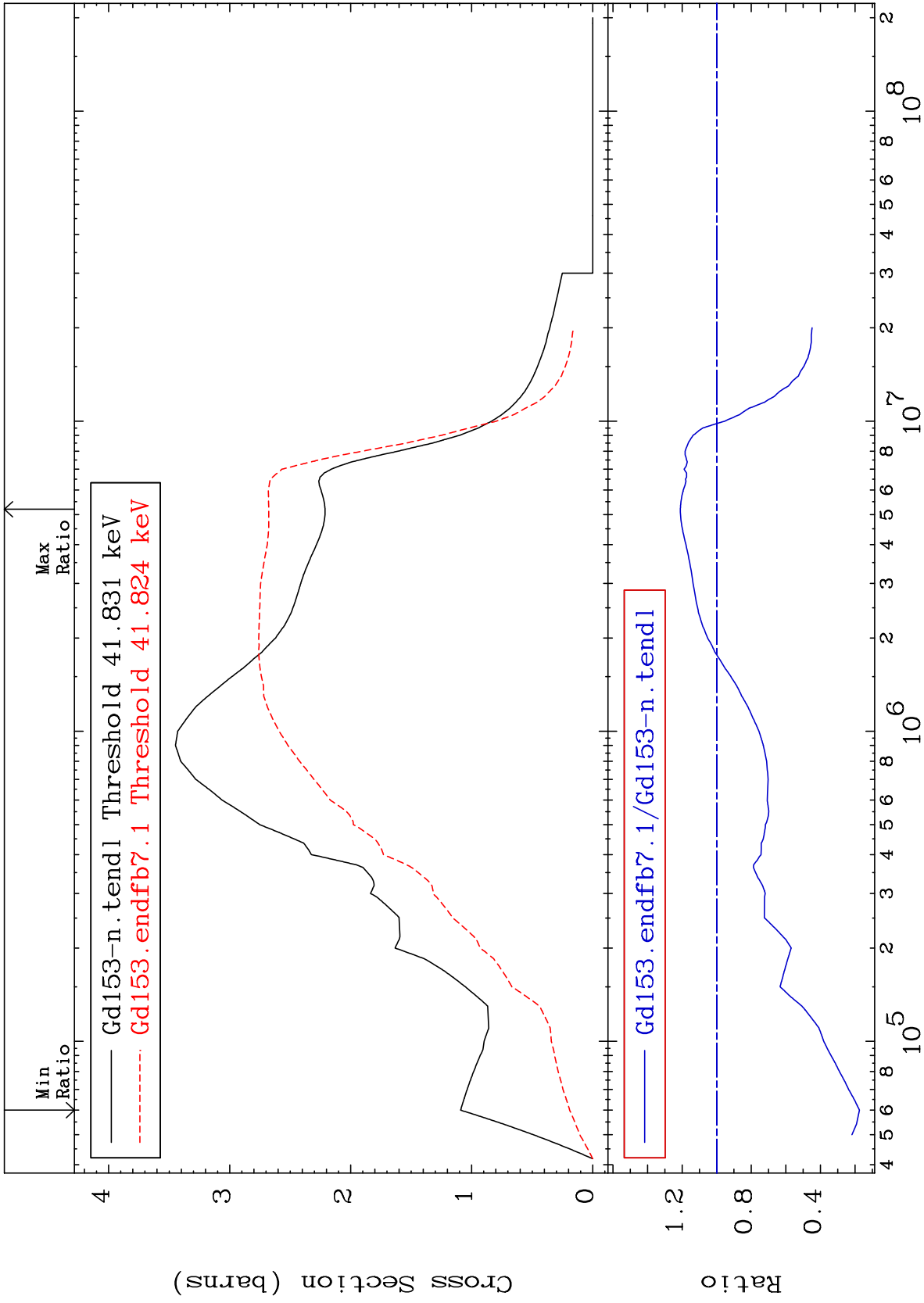


Incident Energy (eV)

64-Gd-153

MAT 6428

Inelastic Cross Section
64-Gd-153
-82.58 To 21.04 %



3

Incident Energy (eV)

64-Gd-153

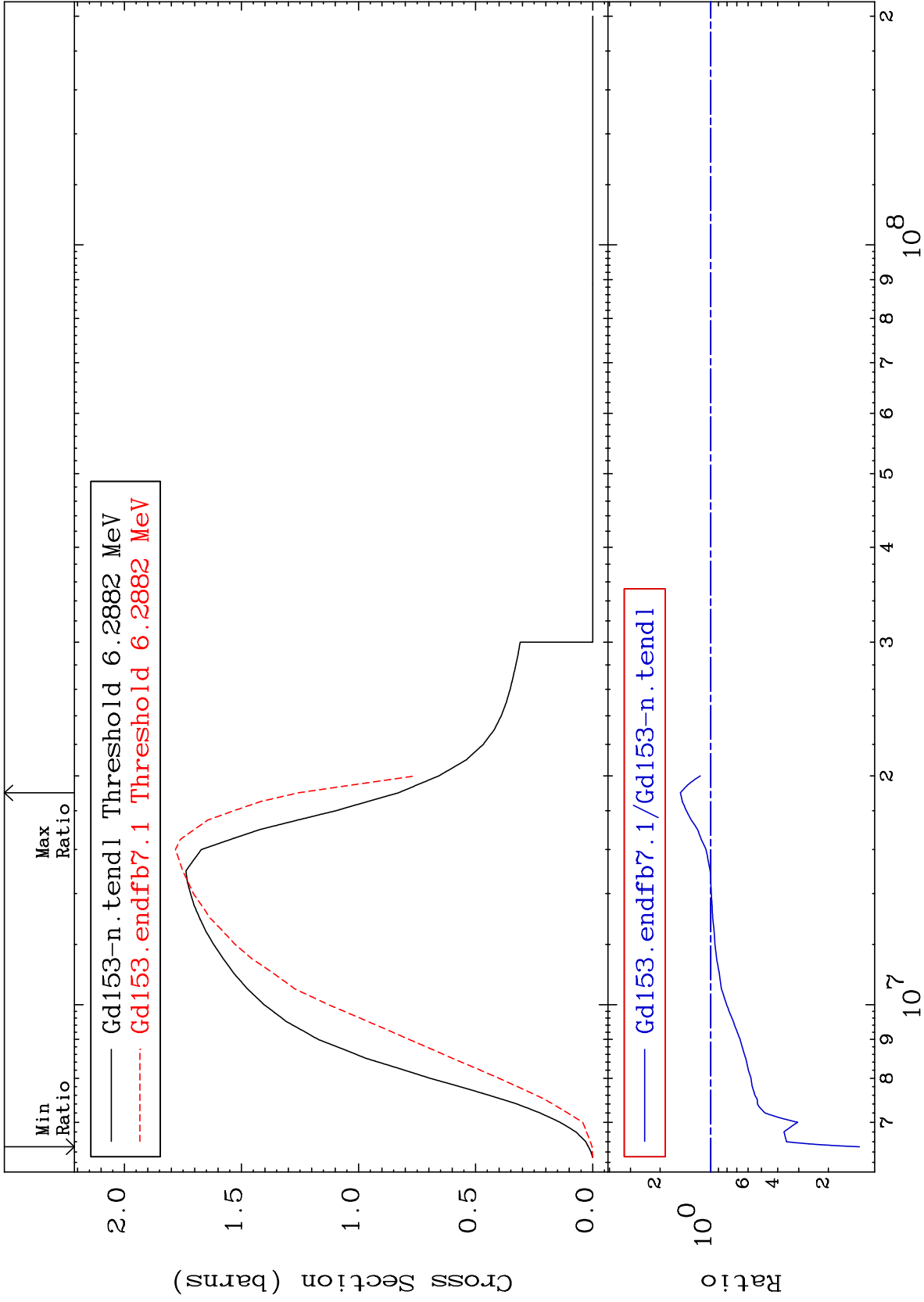
MAT 6428

(n,2n)

64-Gd-153

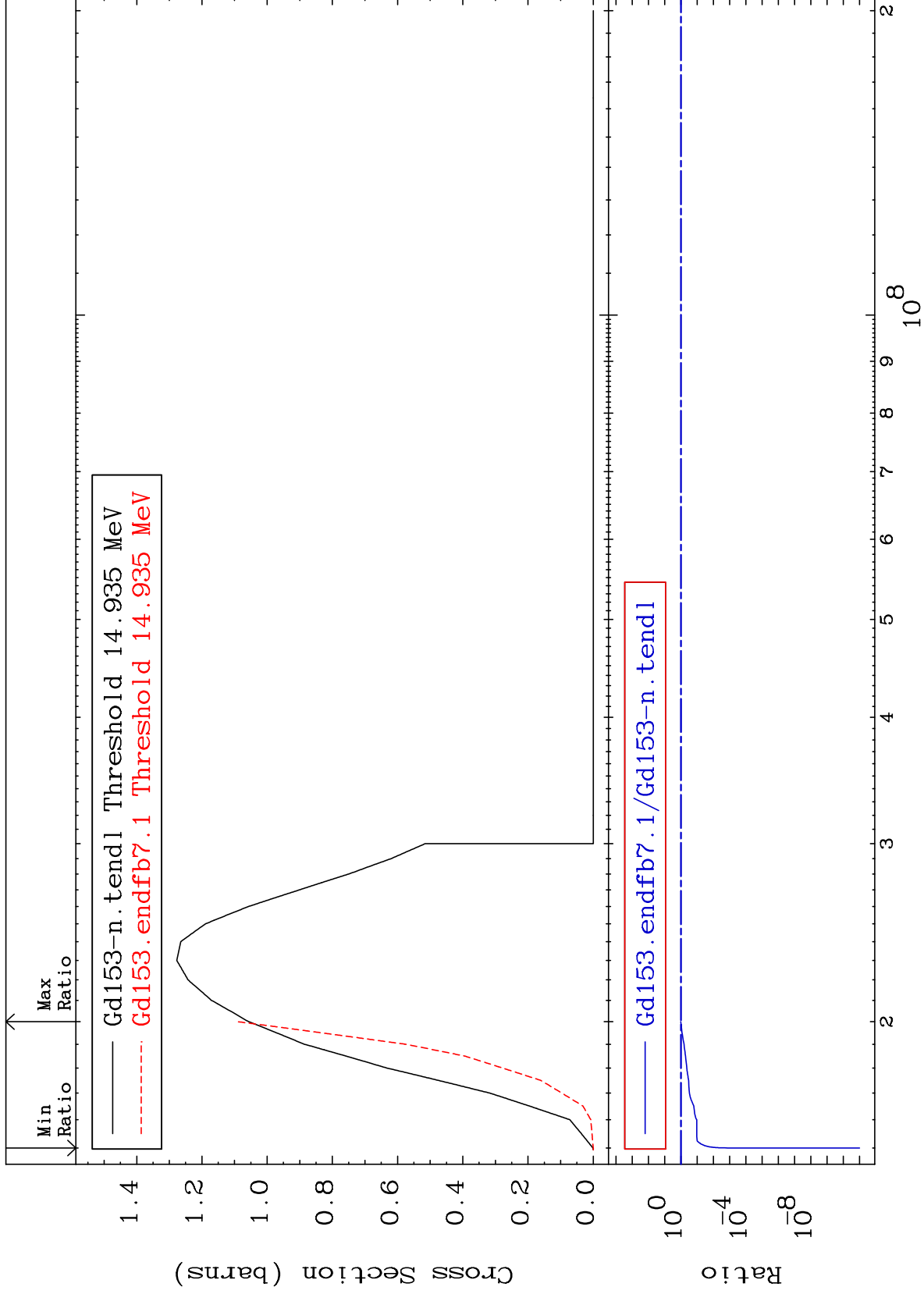
Cross Section

-86.94 To 51.55 %



Cross Section

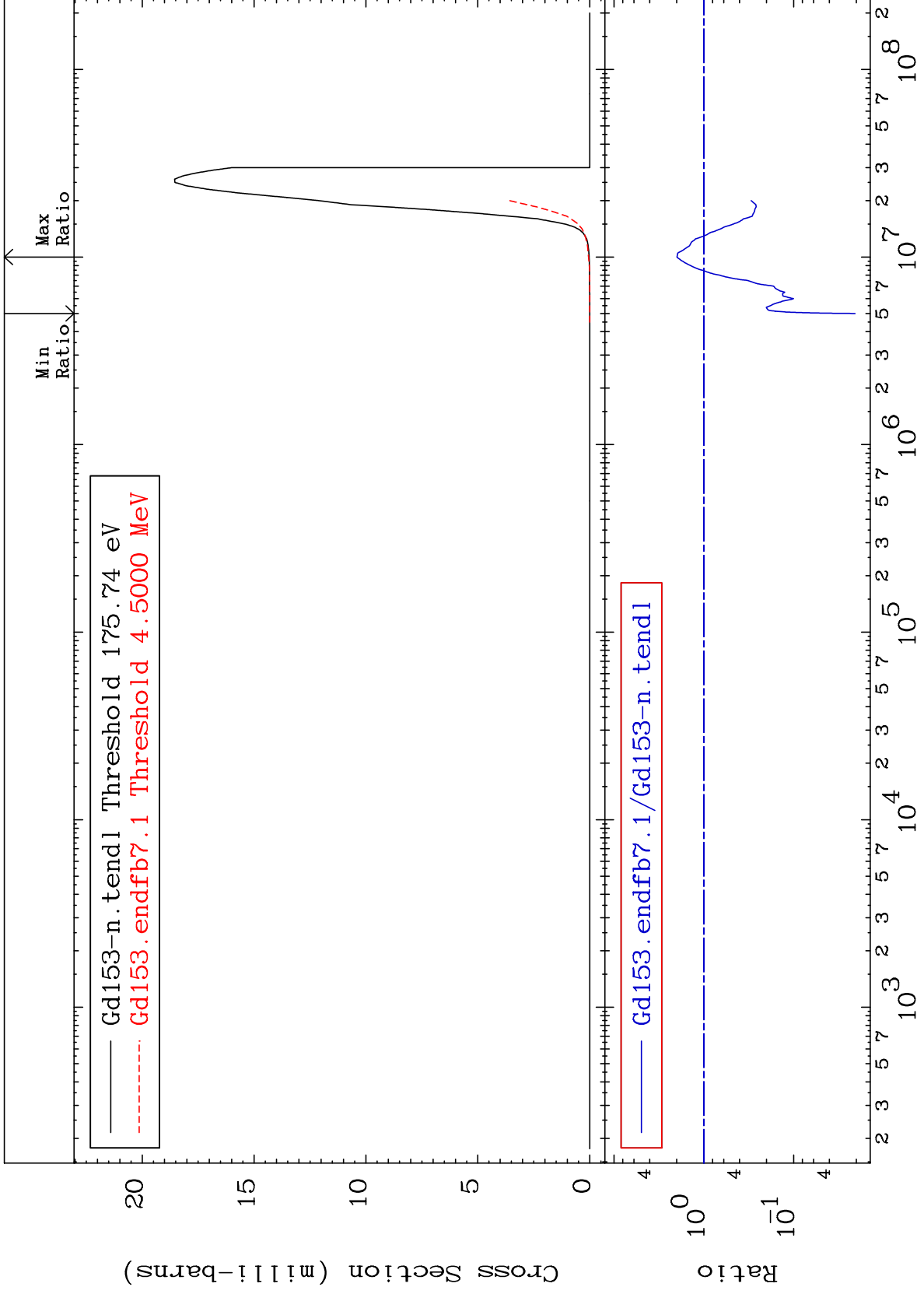
-100.0 To 3.132 %



MAT 6428

(n, n') α
Cross Section

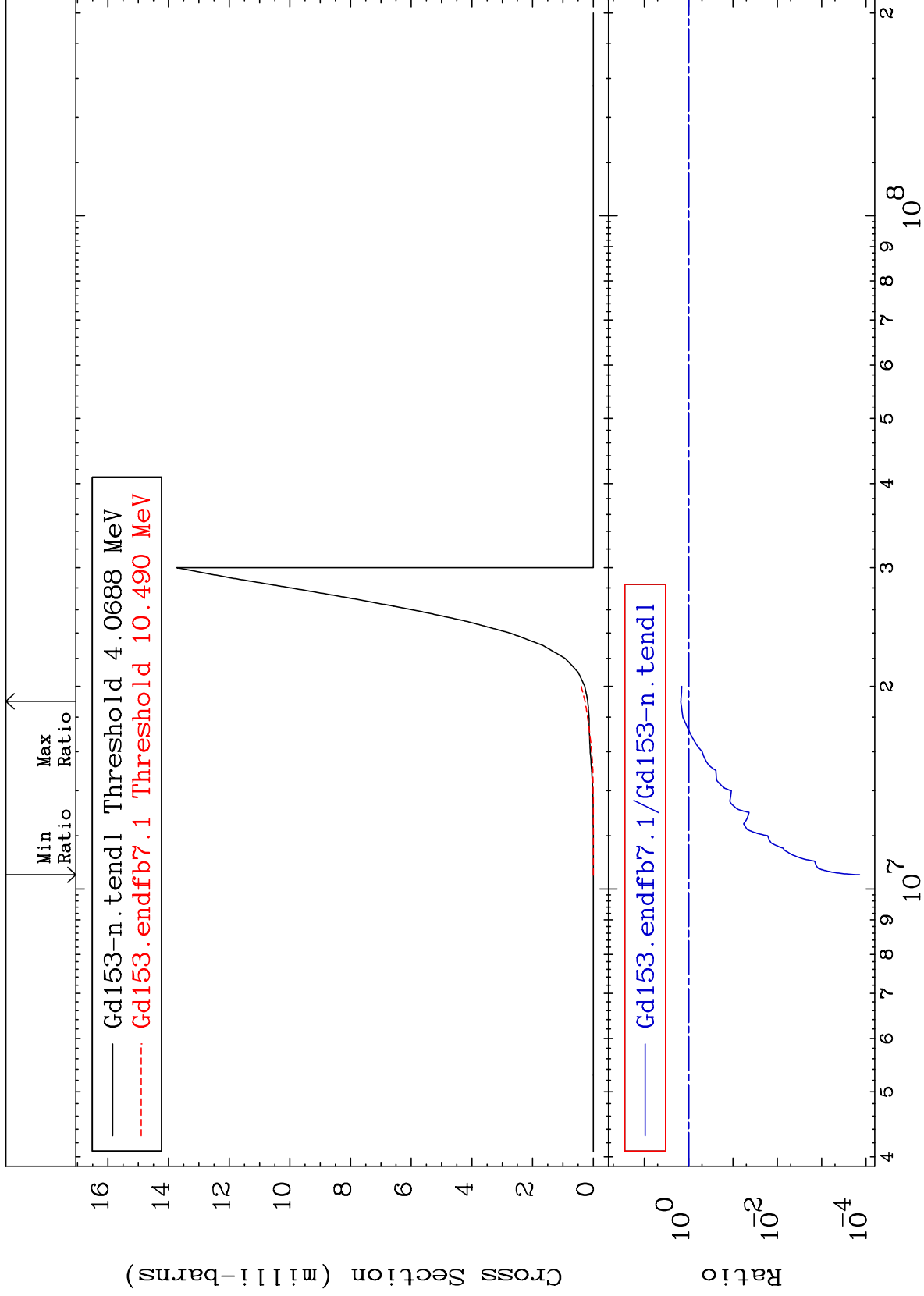
64-Gd-153
-97.93 To 99.11 %



MAT 6428

(n,2n) α
Cross Section

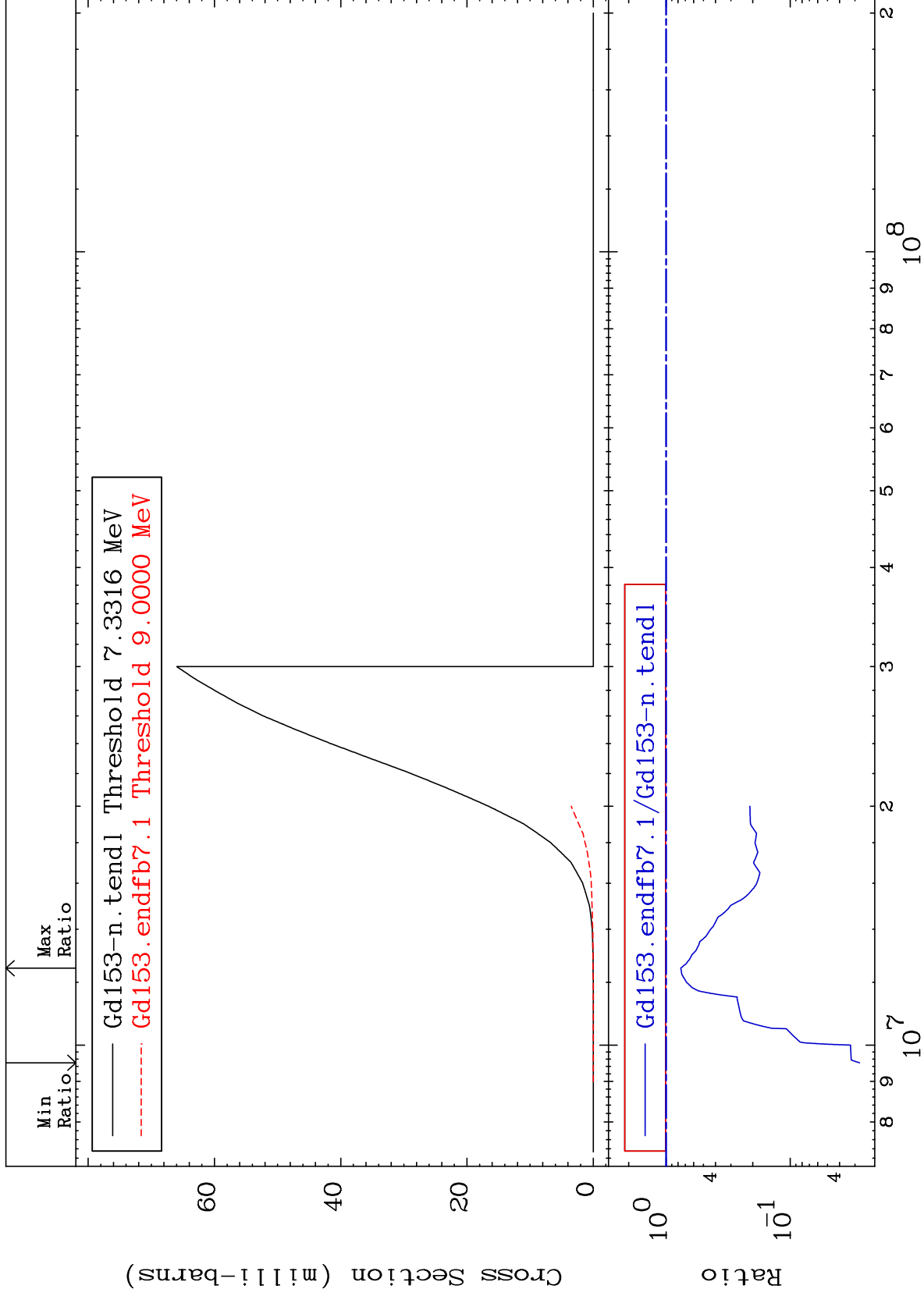
64-Gd-153
-99.99 To 50.29 %



MAT 6428

(n,n') p
Cross Section

64-Gd-153
-97.24 To -23.90%



8

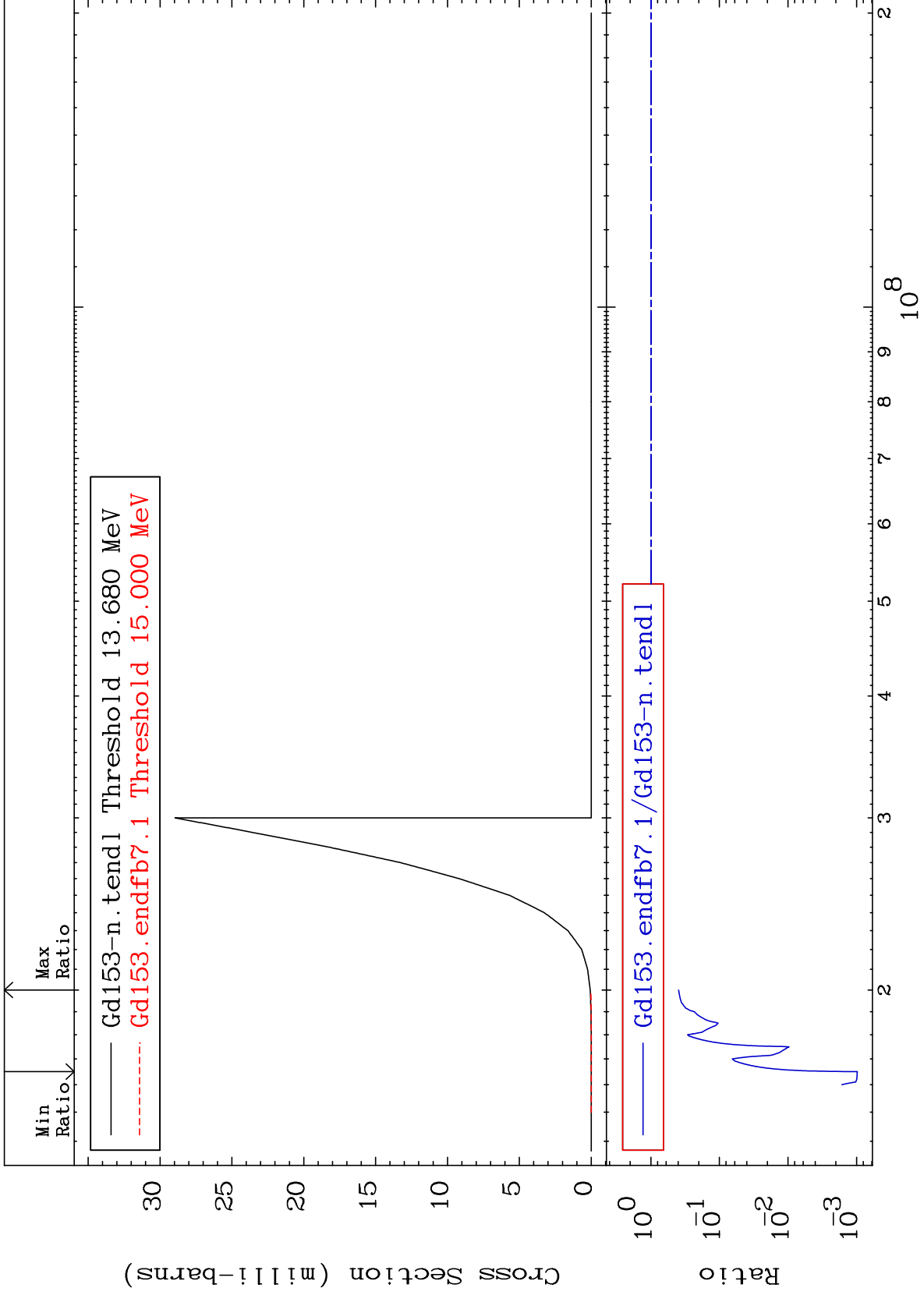
Incident Energy (eV)

64-Gd-153

MAT 6428

(n,2n) p
Cross Section

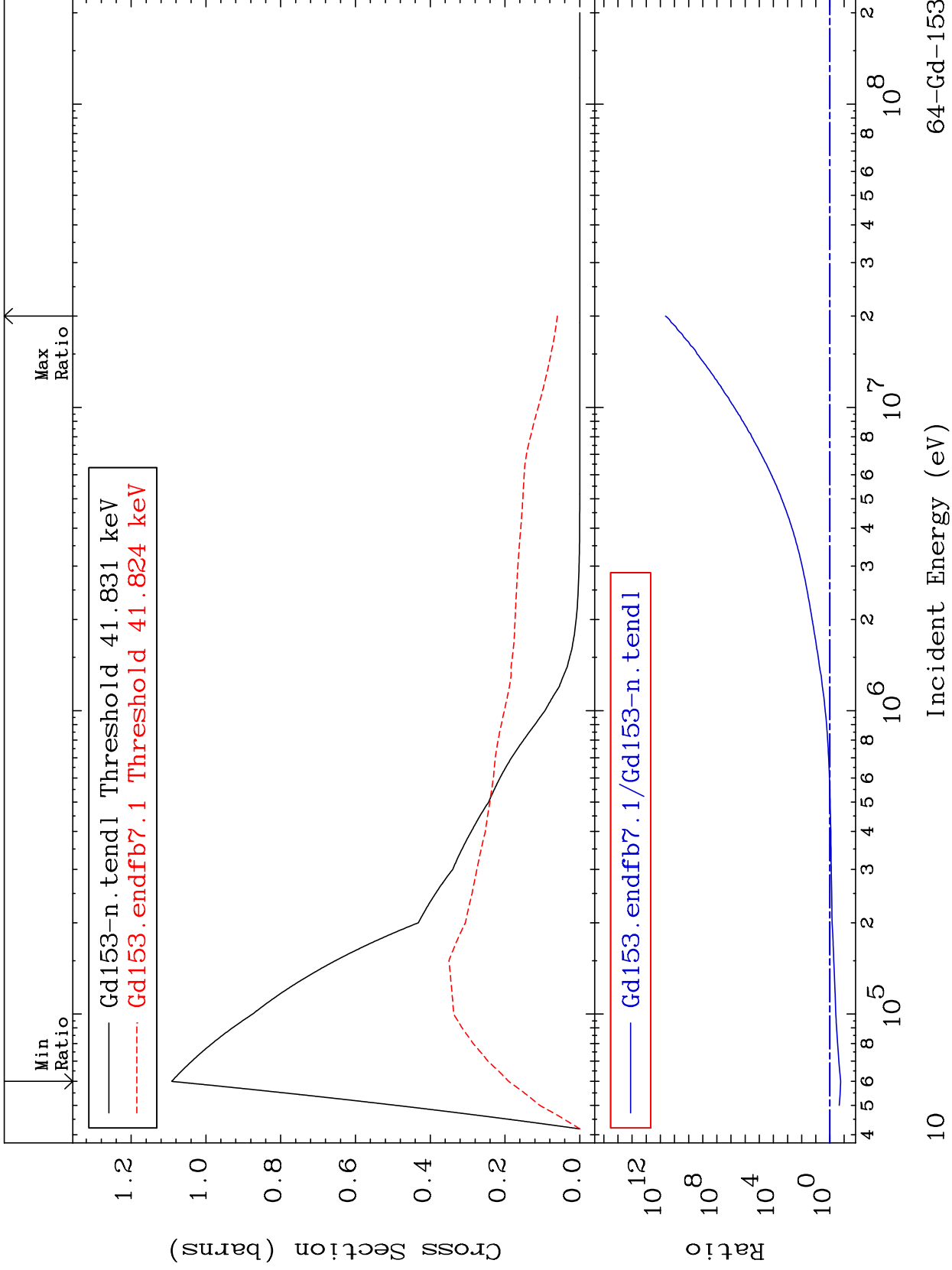
64-Gd-153
-99.90 To -60.65%



MAT 6428

41.56 keV (n,n') Level
Cross Section

64-Gd-153
-82.58 To 9999. %



10

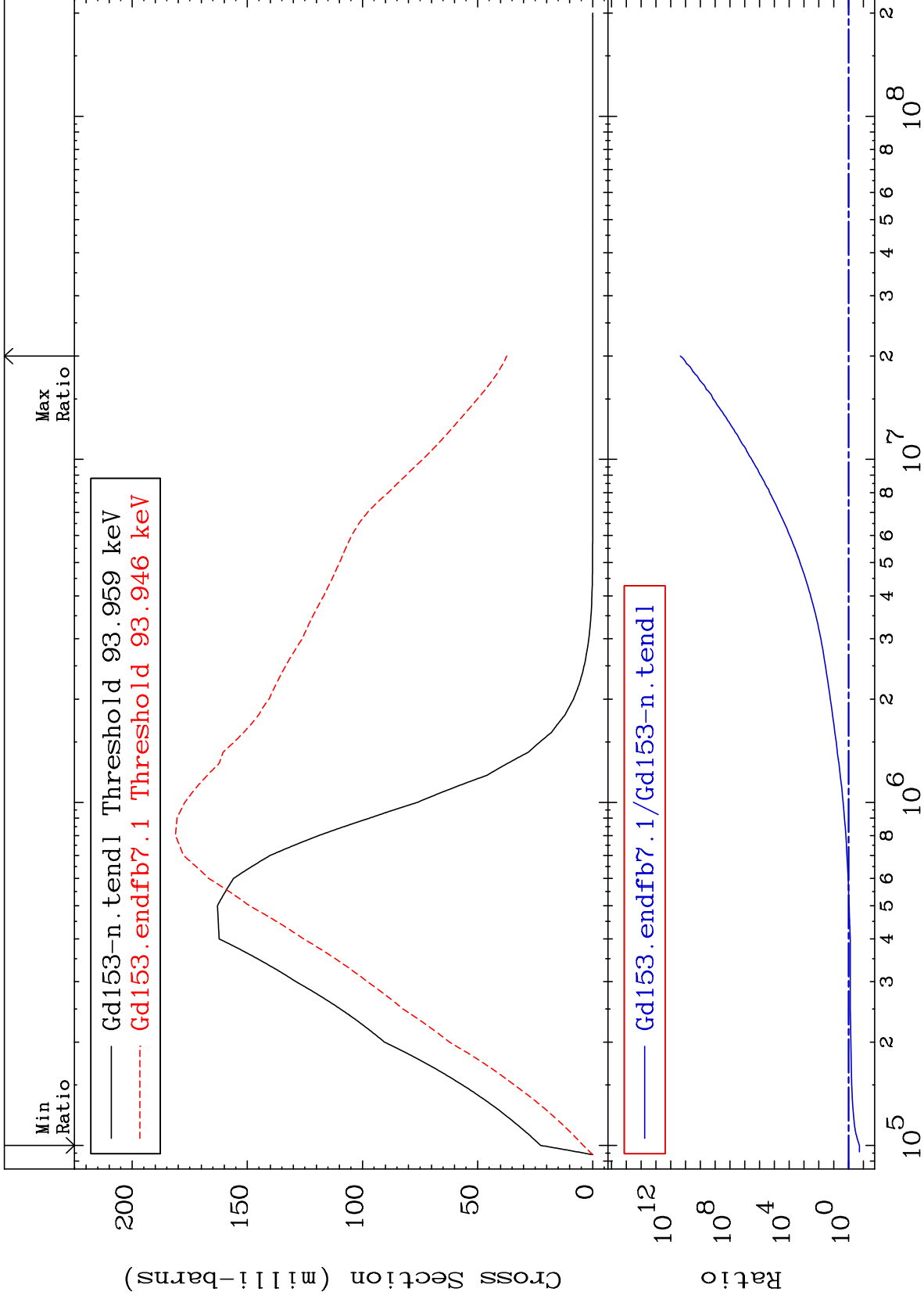
Incident Energy (eV)

64-Gd-153

MAT 6428

93.34 keV (n,n') Level
Cross Section

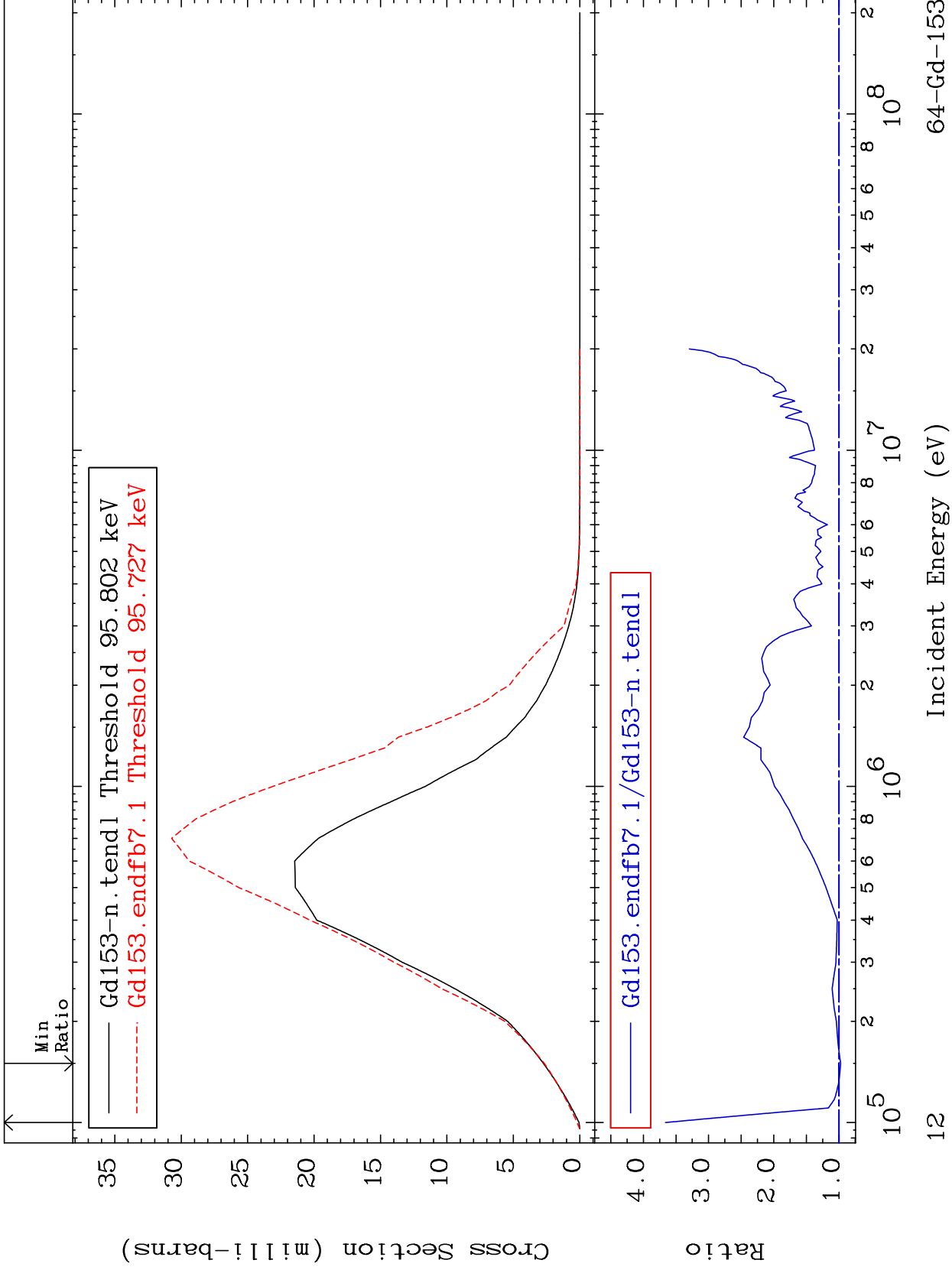
64-Gd-153
-81.69 To 9999. %



MAT 6428

95.17 keV (n,n') Level
Cross Section

64-Gd-153
-2.648 To 266.1 %



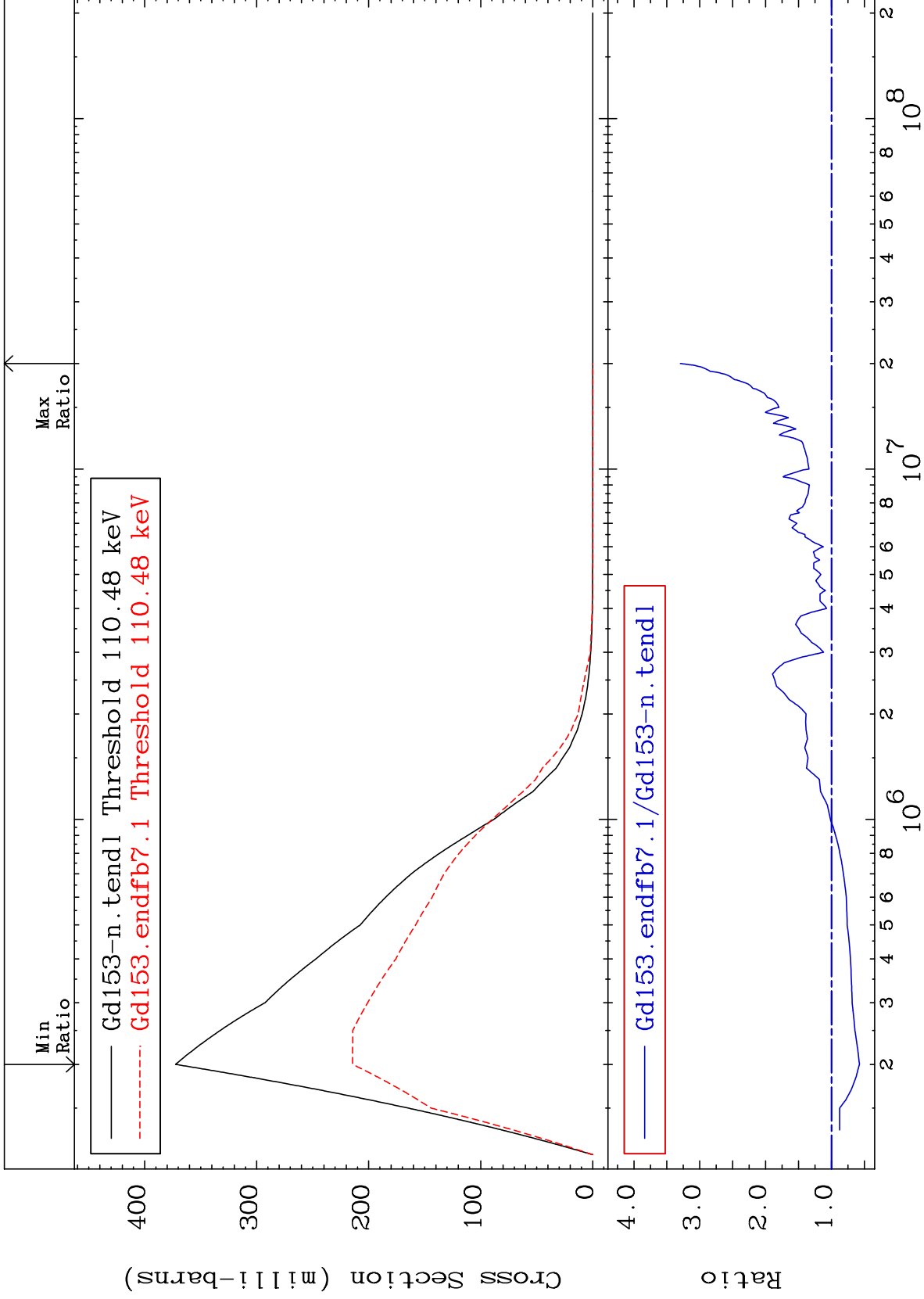
64-Gd-153

Incident Energy (eV)

MAT 6428

109.8 keV (n,n') Level
Cross Section

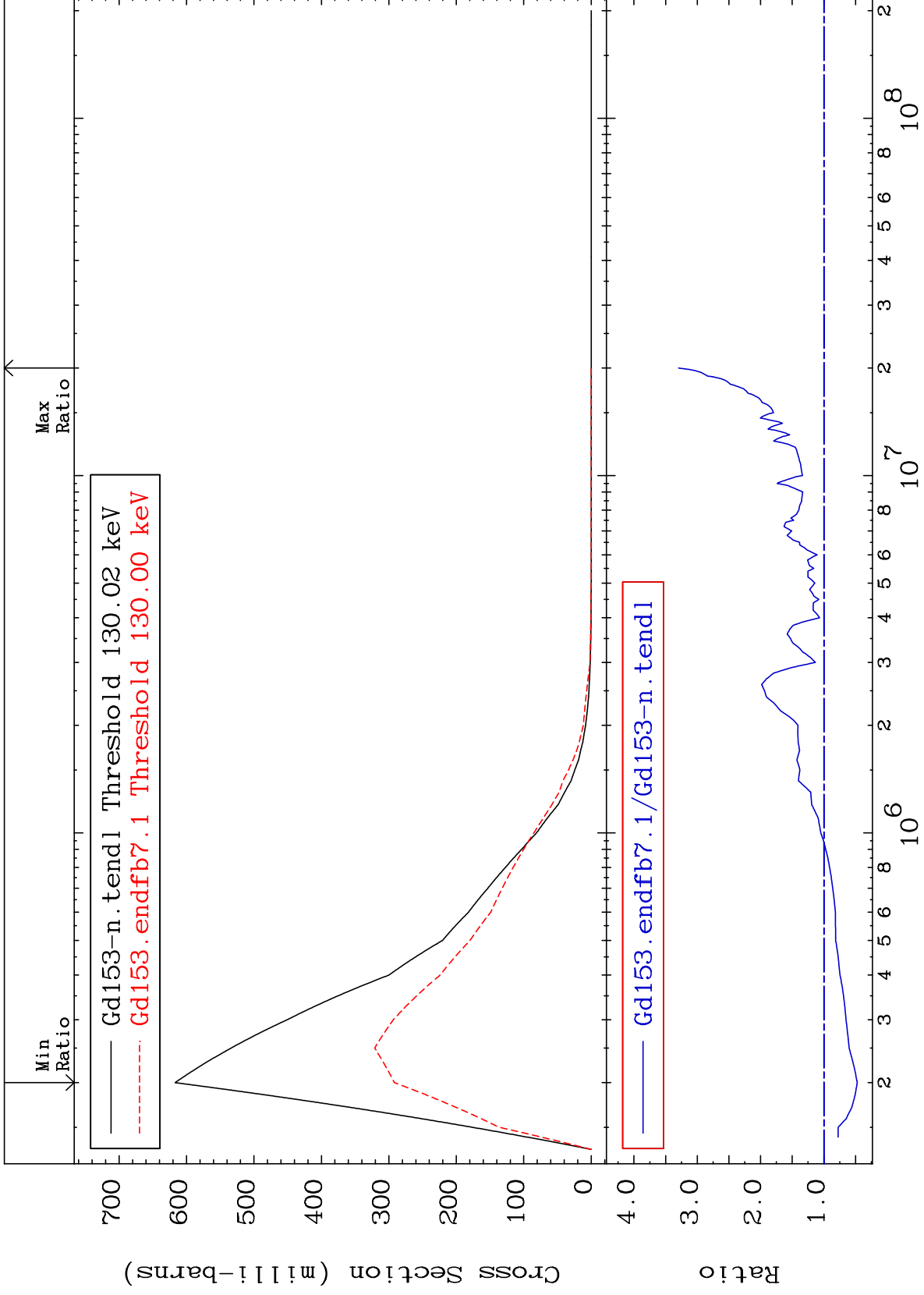
64-Gd-153
-42.43 To 229.5 %



MAT 6428

129.2 keV (n,n') Level
Cross Section

64-Gd-153
-52.71 To 229.4 %



14

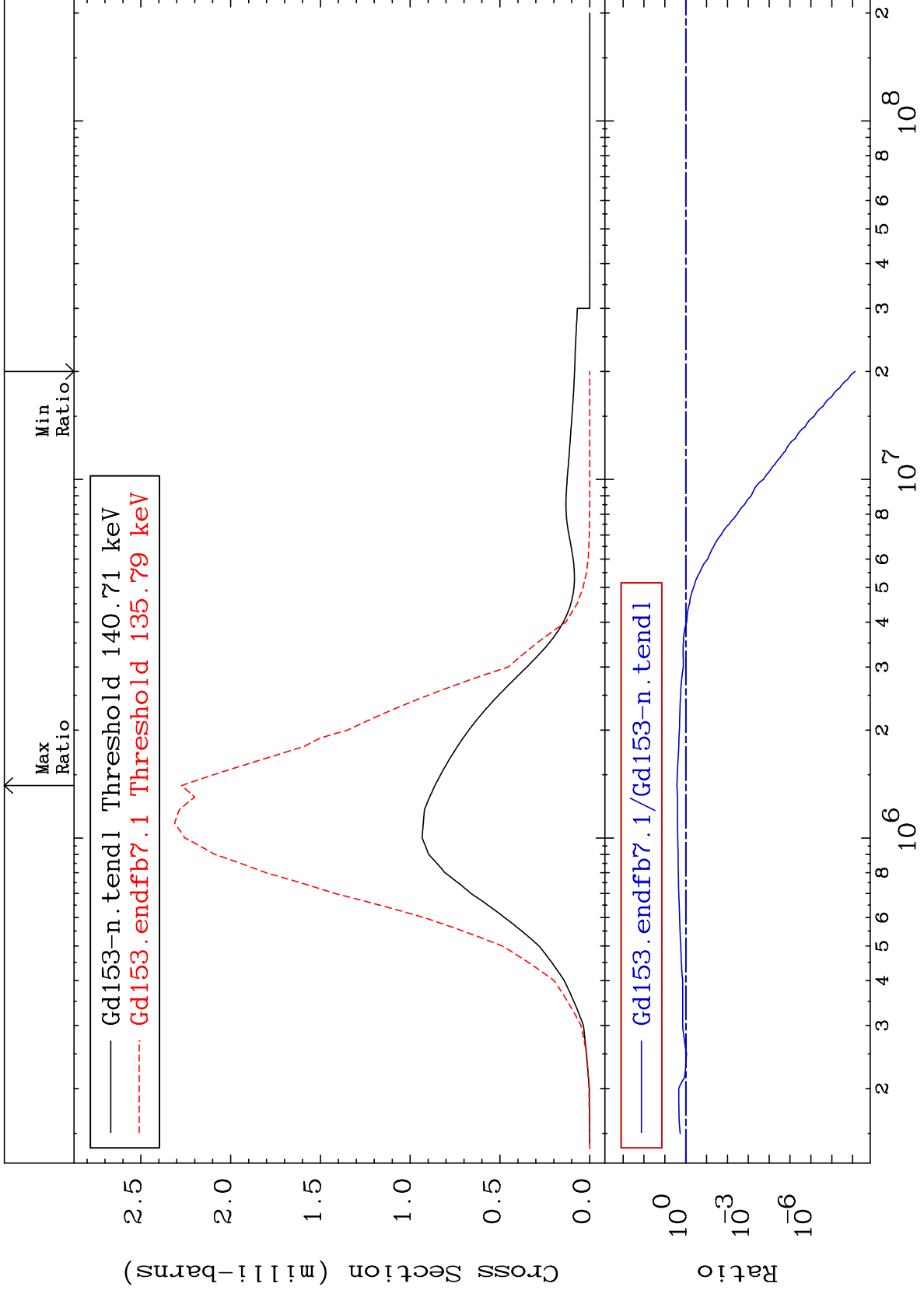
Incident Energy (eV)

64-Gd-153

MAT 6428

139.8 keV (n,n') Level
Cross Section

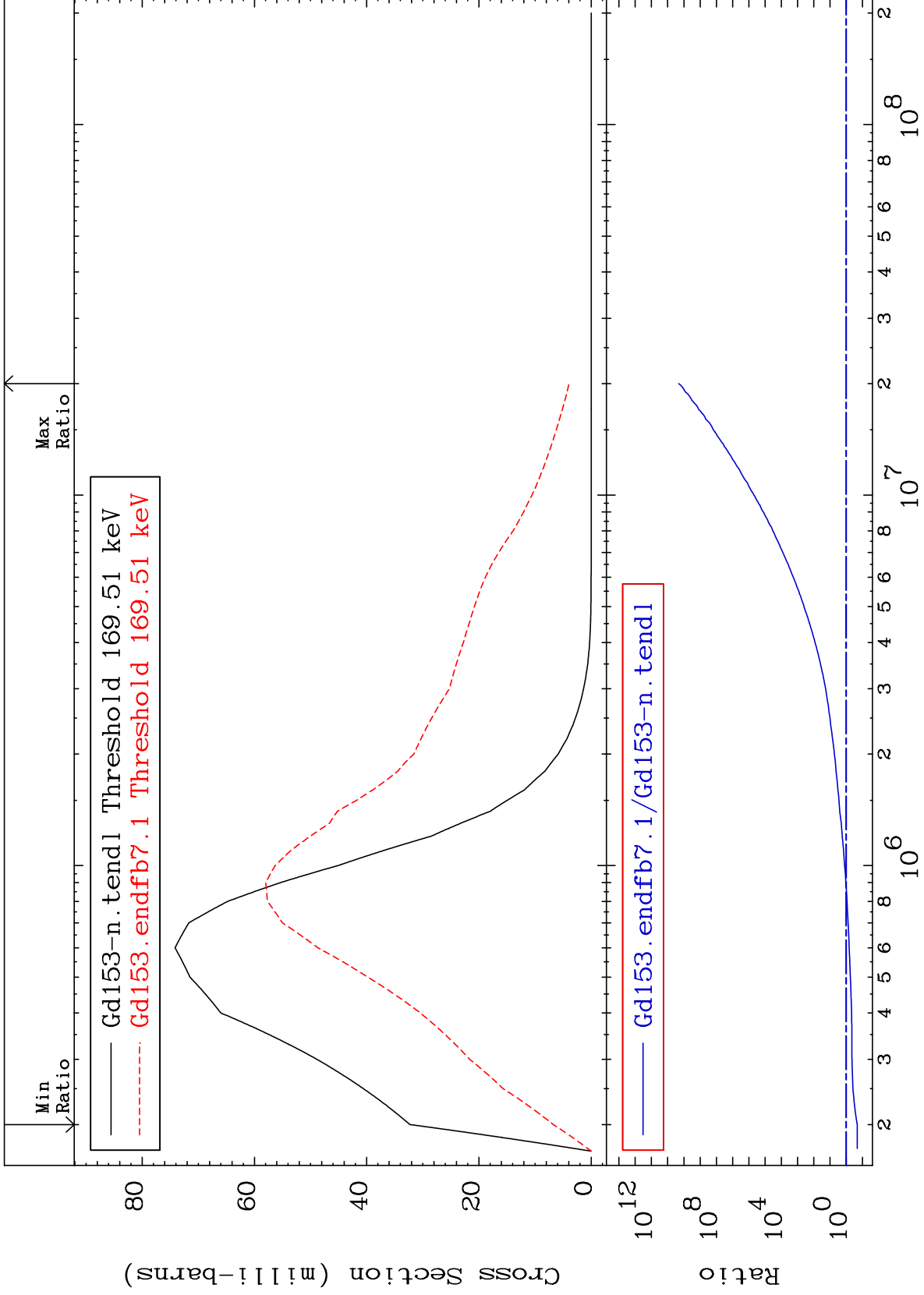
64-Gd-153
-100.0 To 163.6 %



MAT 6428

168.4 keV (n,n') Level
Cross Section

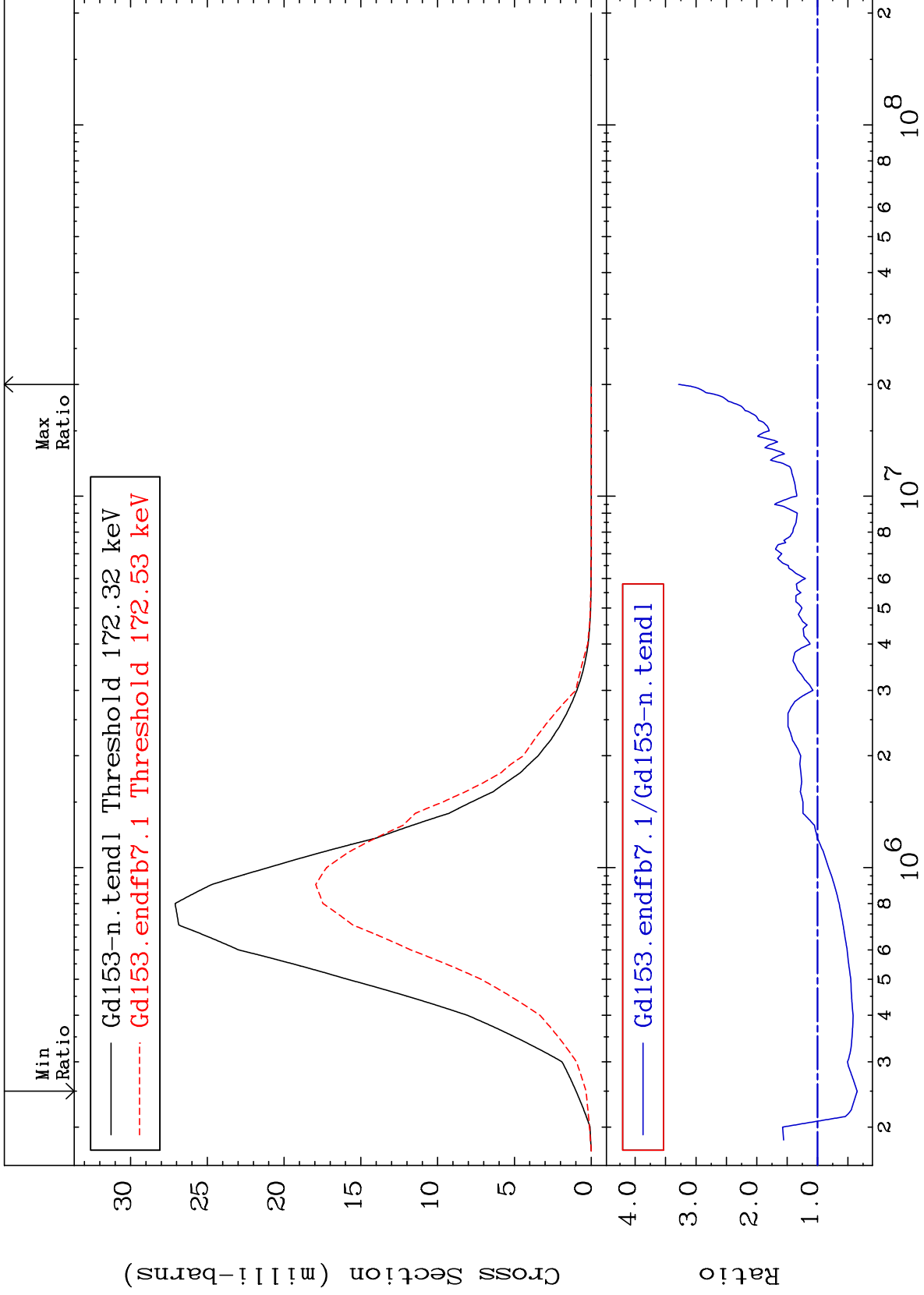
64-Gd-153
-79.10 To 9999. %



MAT 6428

171.2 keV (n,n') Level
Cross Section

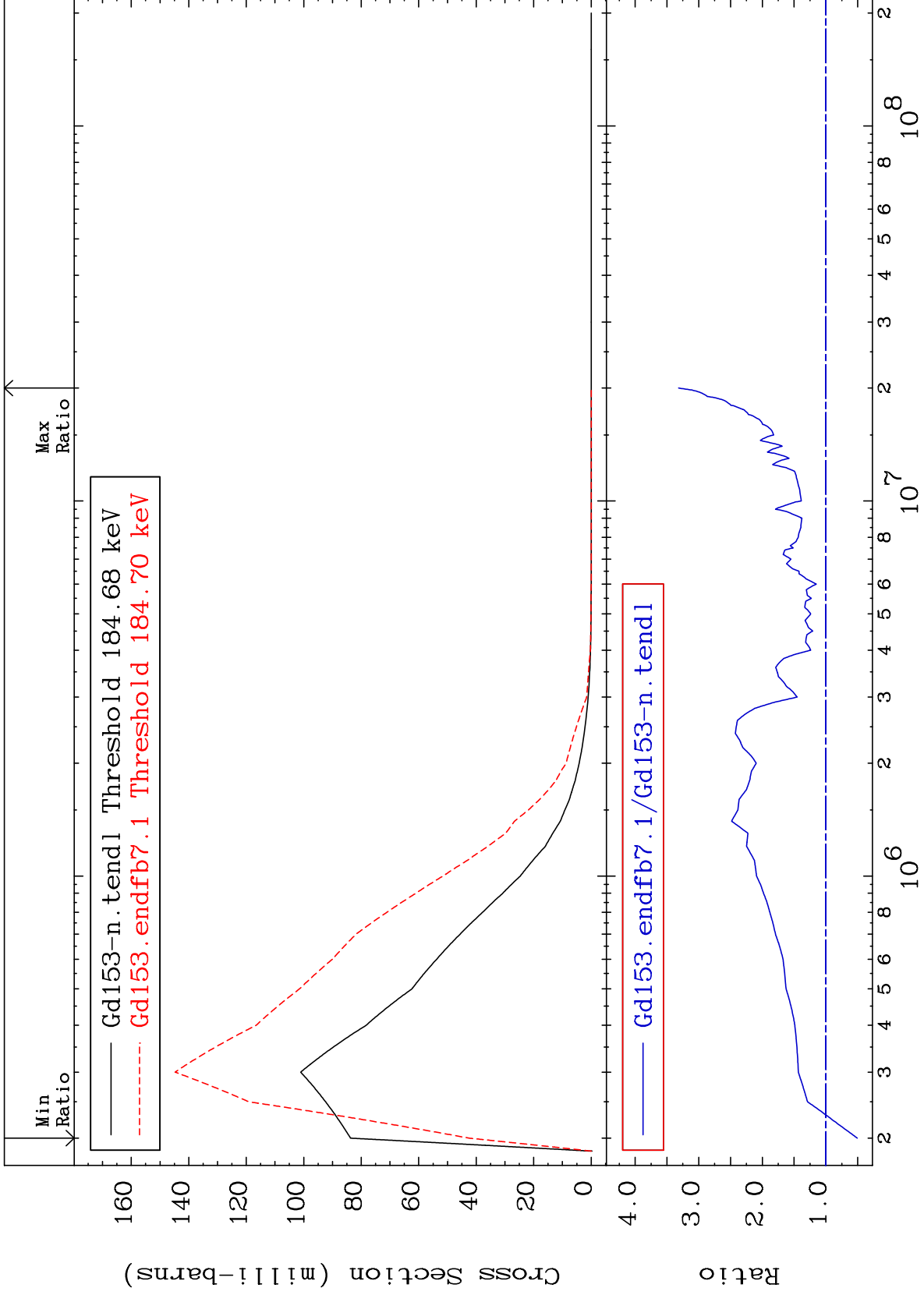
64-Gd-153
-65.43 To 228.5 %



MAT 6428

183.5 keV (n,n') Level
Cross Section

64-Gd-153
-49.34 To 231.6 %



18

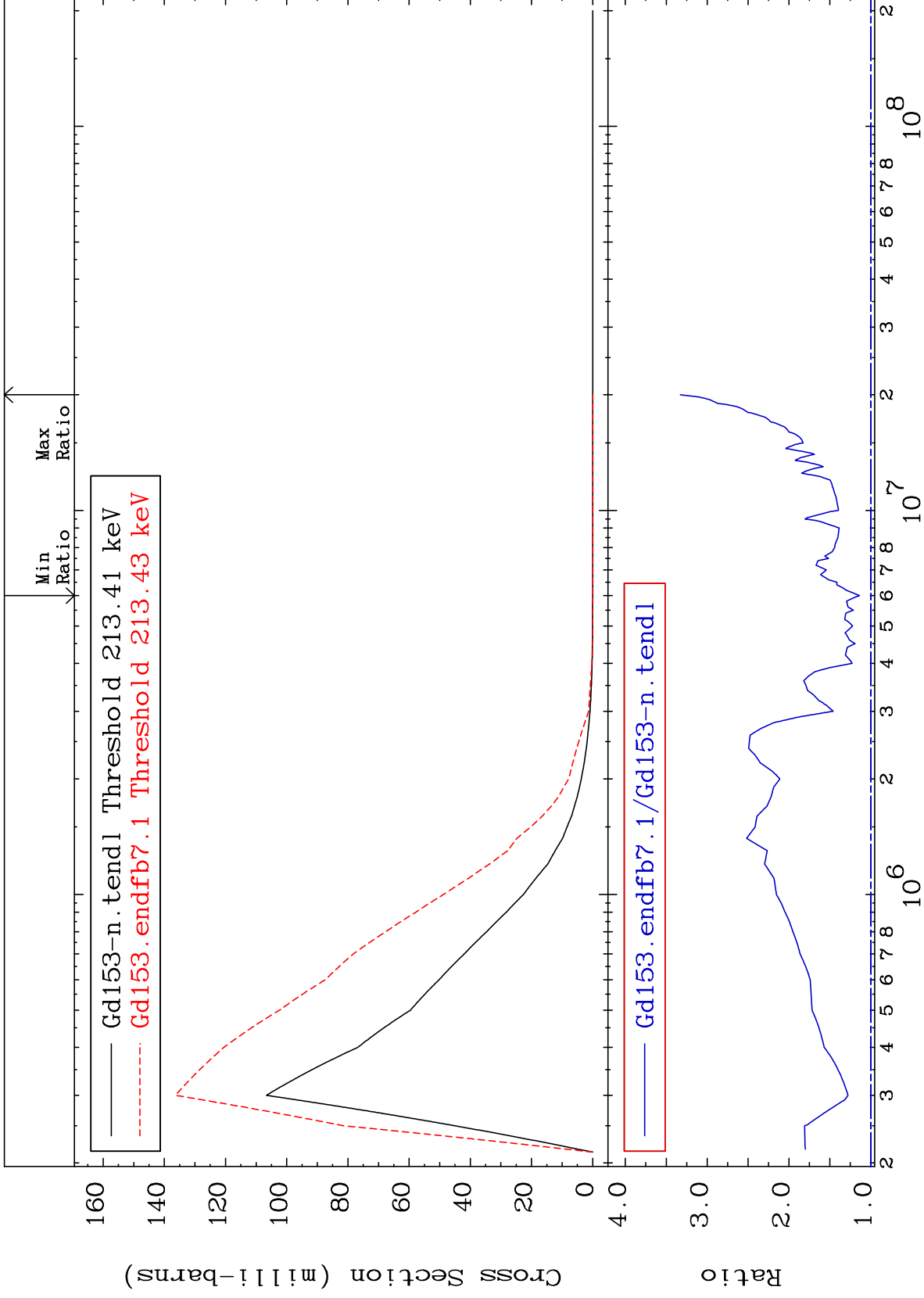
Incident Energy (eV)

64-Gd-153

MAT 6428

212.0 keV (n,n') Level
Cross Section

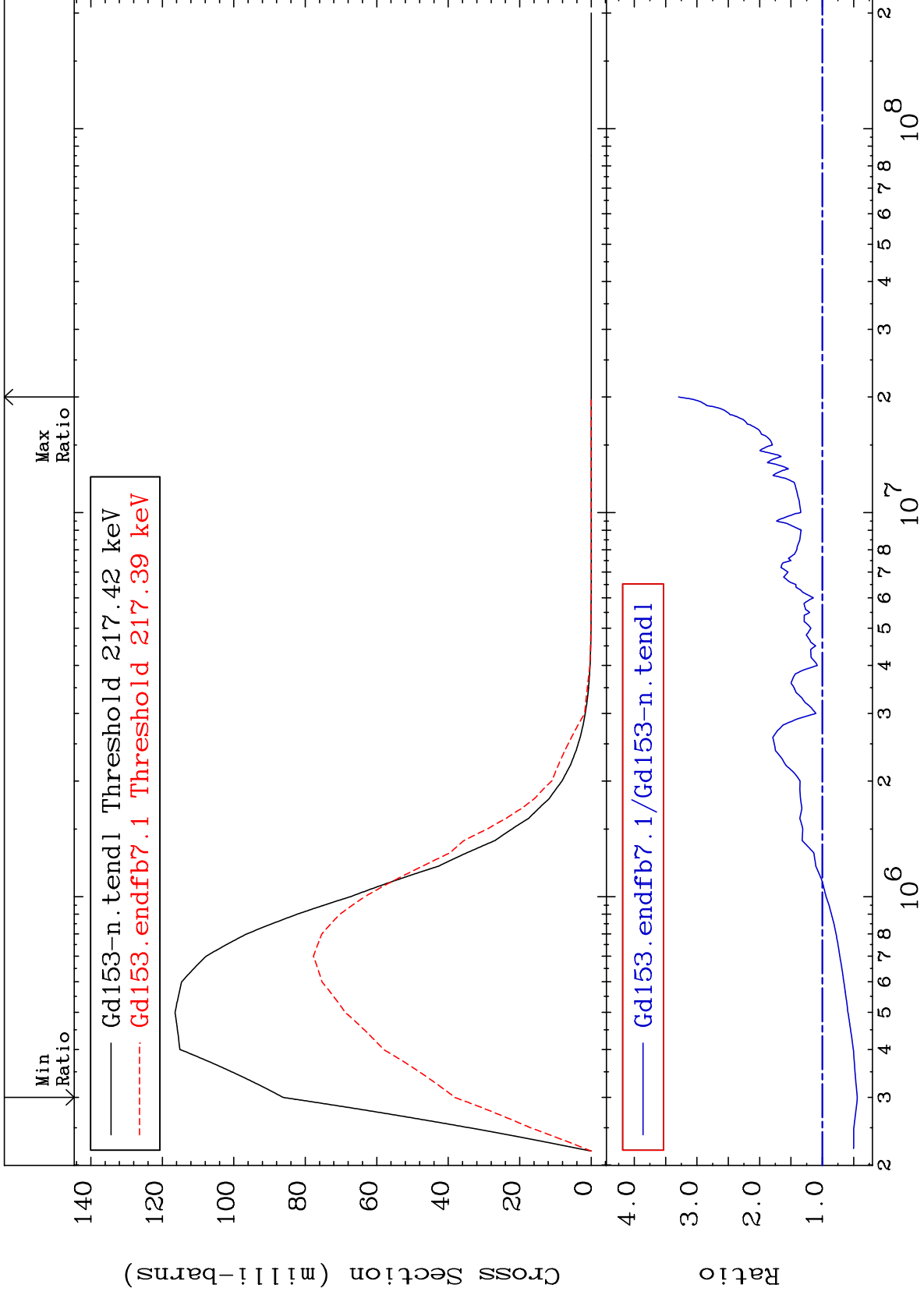
64-Gd-153
13.91 To 232.7 %



MAT 6428

216.0 keV (n,n') Level
Cross Section

64-Gd-153
-55.72 To 229.3 %



20

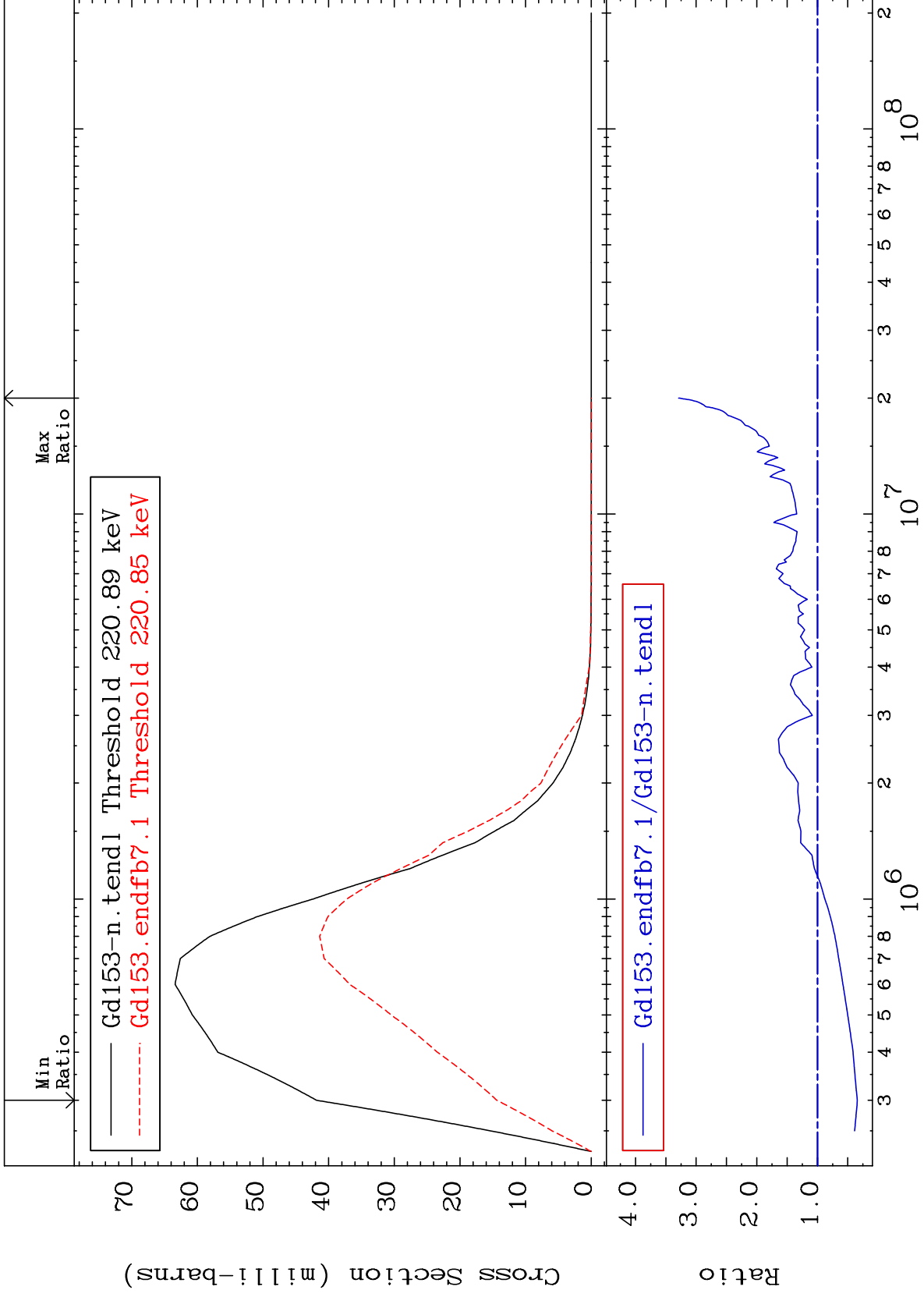
Incident Energy (eV)

64-Gd-153

MAT 6428

219.4 keV (n,n') Level
Cross Section

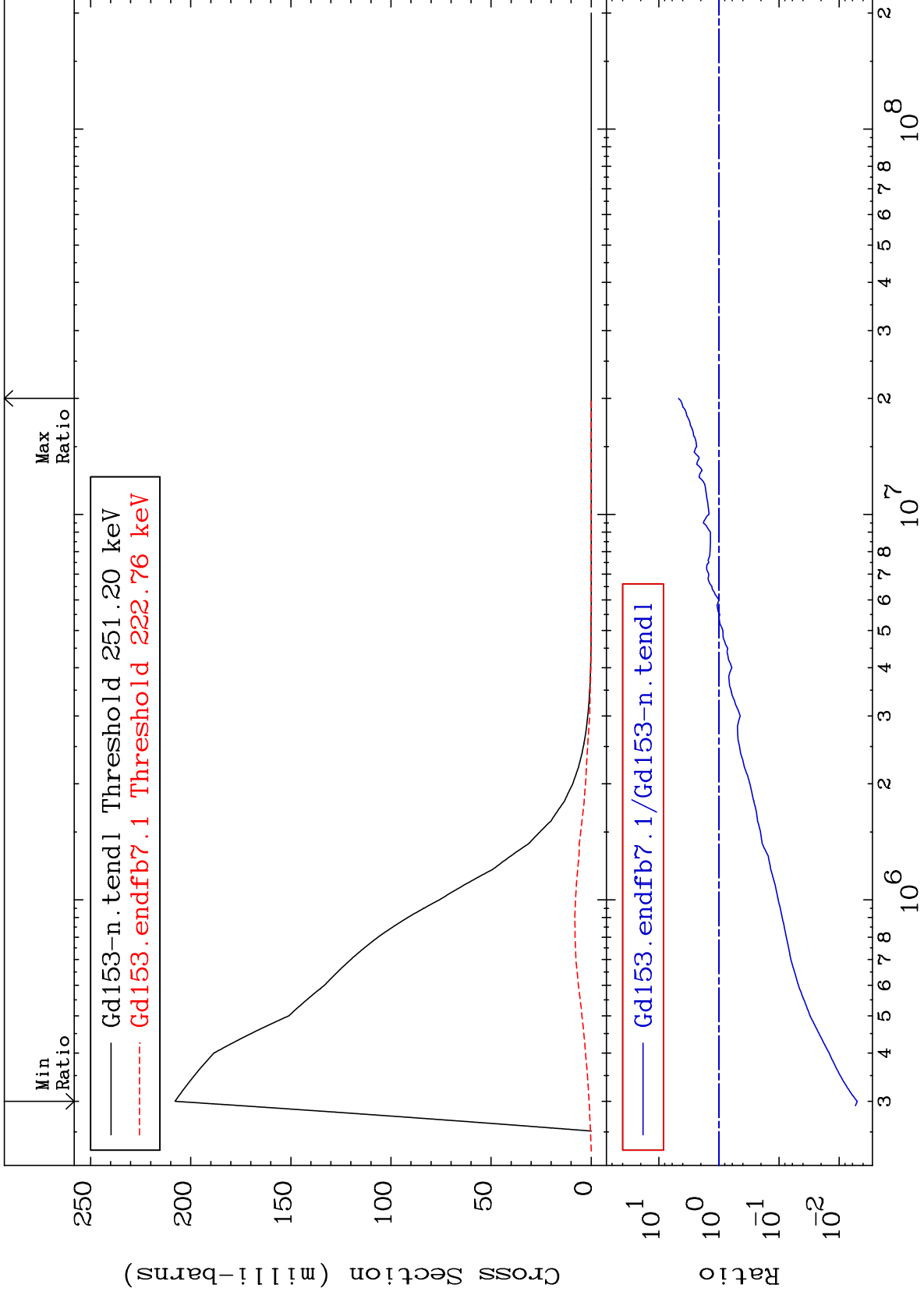
64-Gd-153
-65.63 To 228.9 %



MAT 6428

249.6 keV (n,n') Level
Cross Section

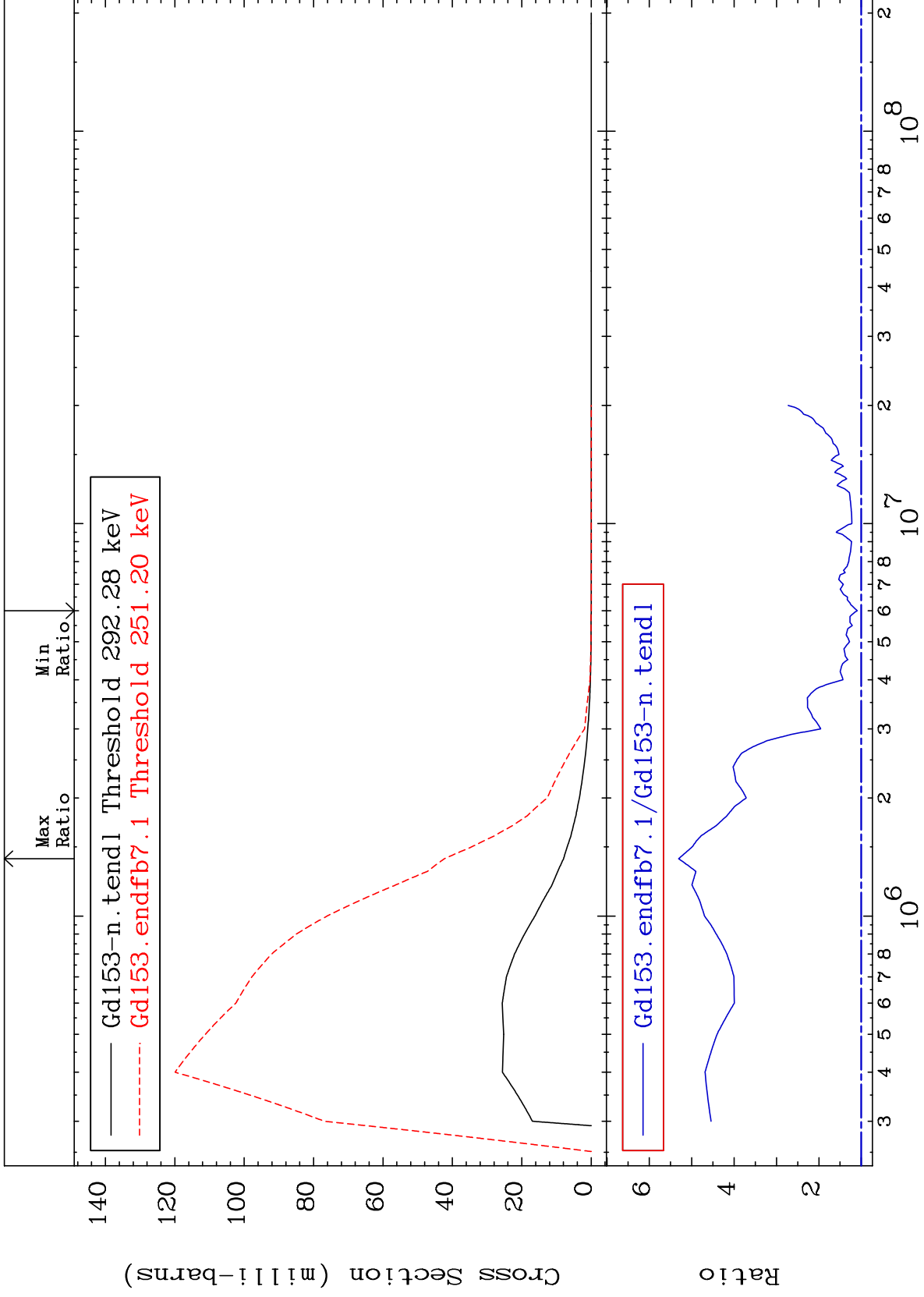
64-Gd-153
-99.50 To 369.1 %



MAT 6428

290.4 keV (n,n') Level
Cross Section

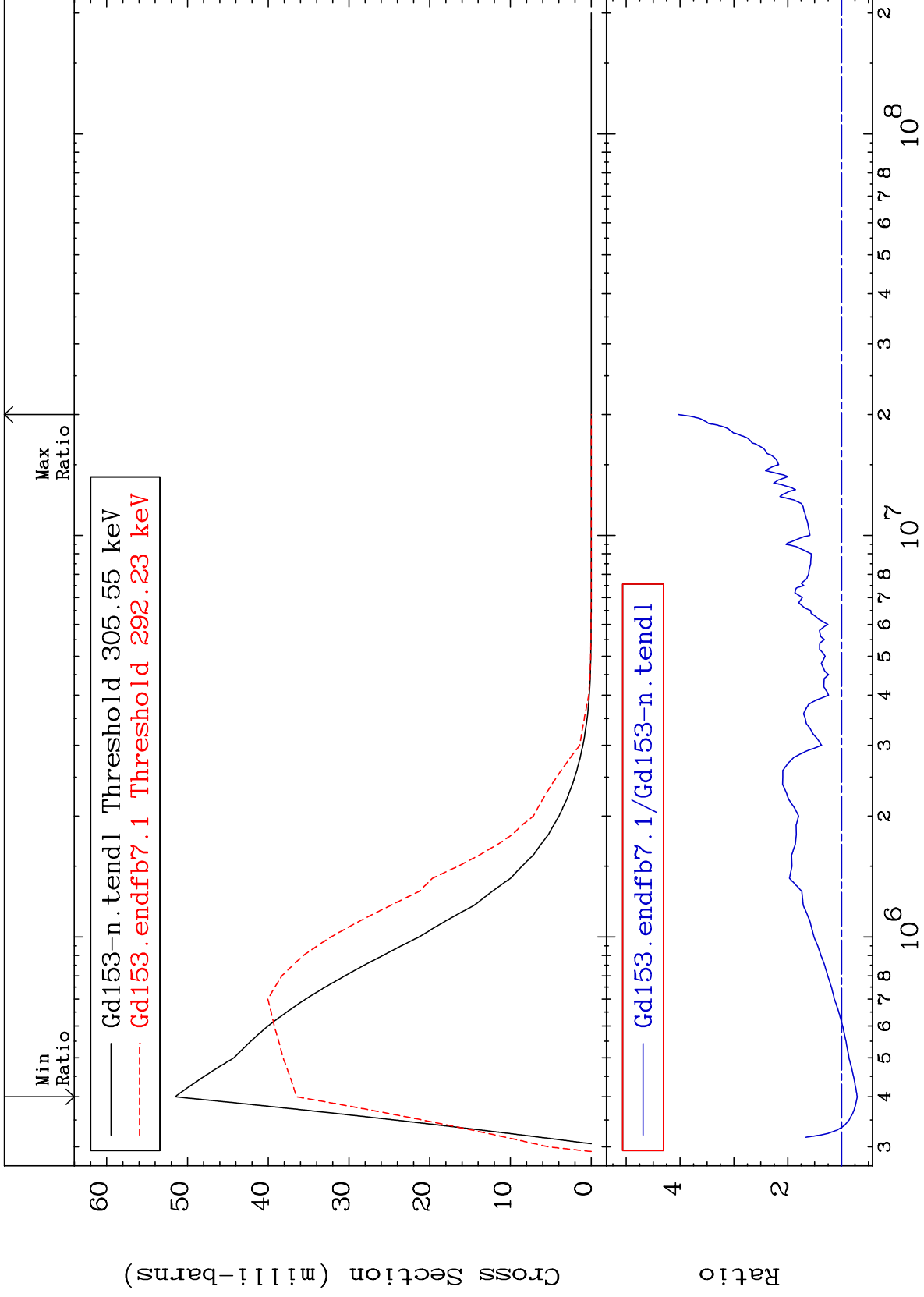
64-Gd-153
9.497 To 430.9 %



MAT 6428

303.5 keV (n,n') Level
Cross Section

64-Gd-153
-29.19 To 302.7 %



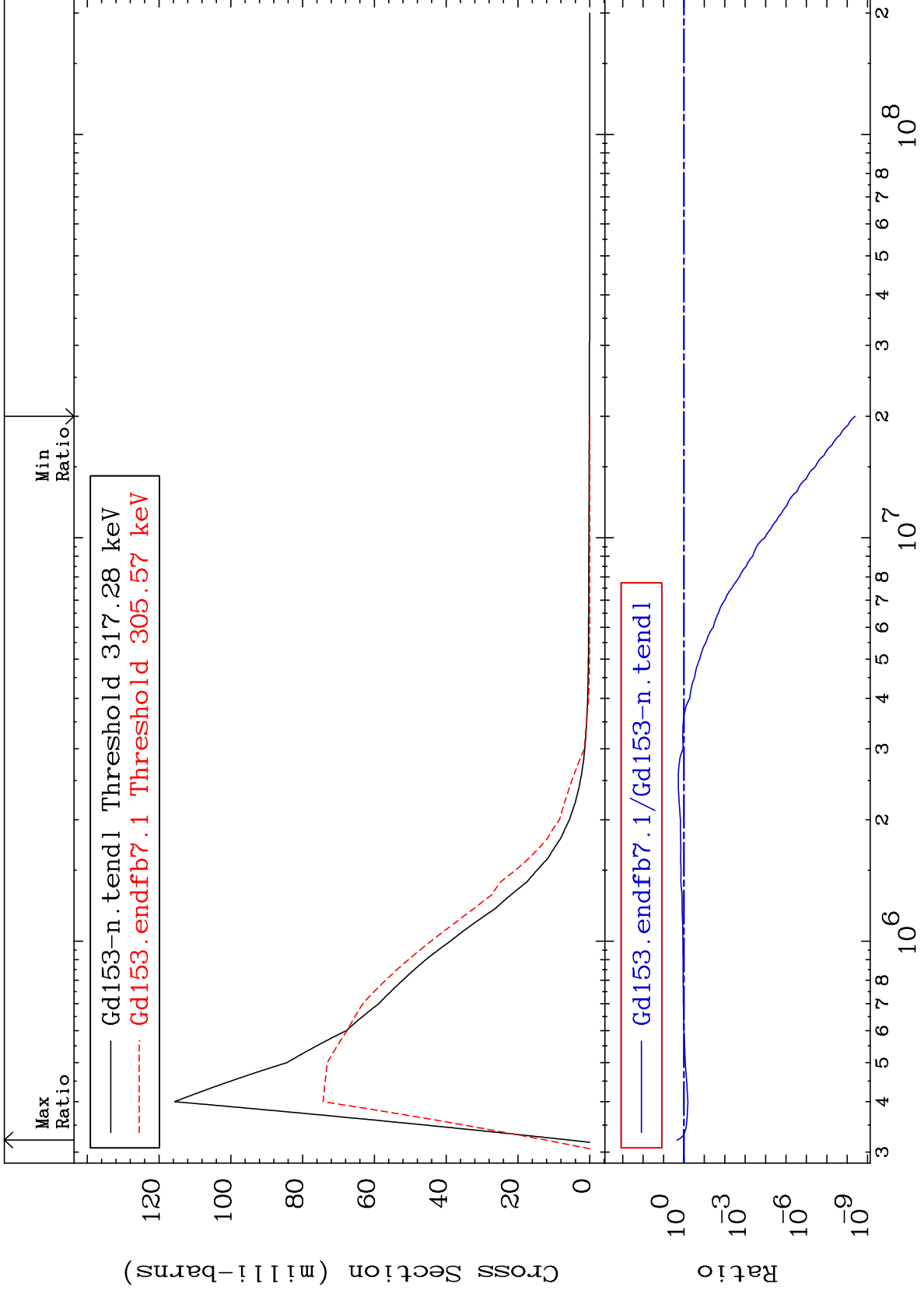
24

64-Gd-153

MAT 6428

315.2 keV (n,n') Level
Cross Section

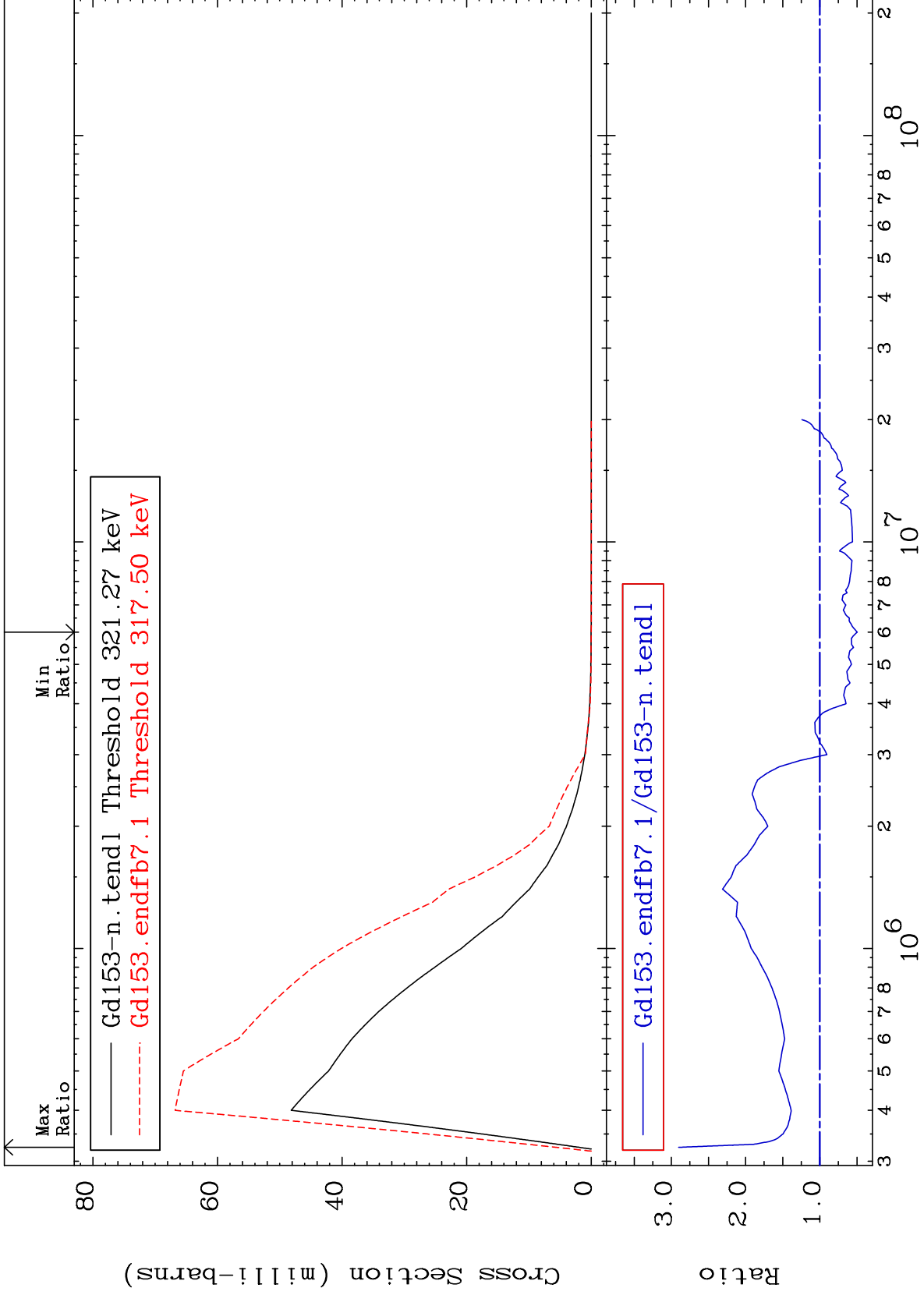
64-Gd-153
-100.0 To 121.3 %



MAT 6428

319.2 keV (n,n') Level
Cross Section

64-Gd-153
-50.36 To 190.2 %



26

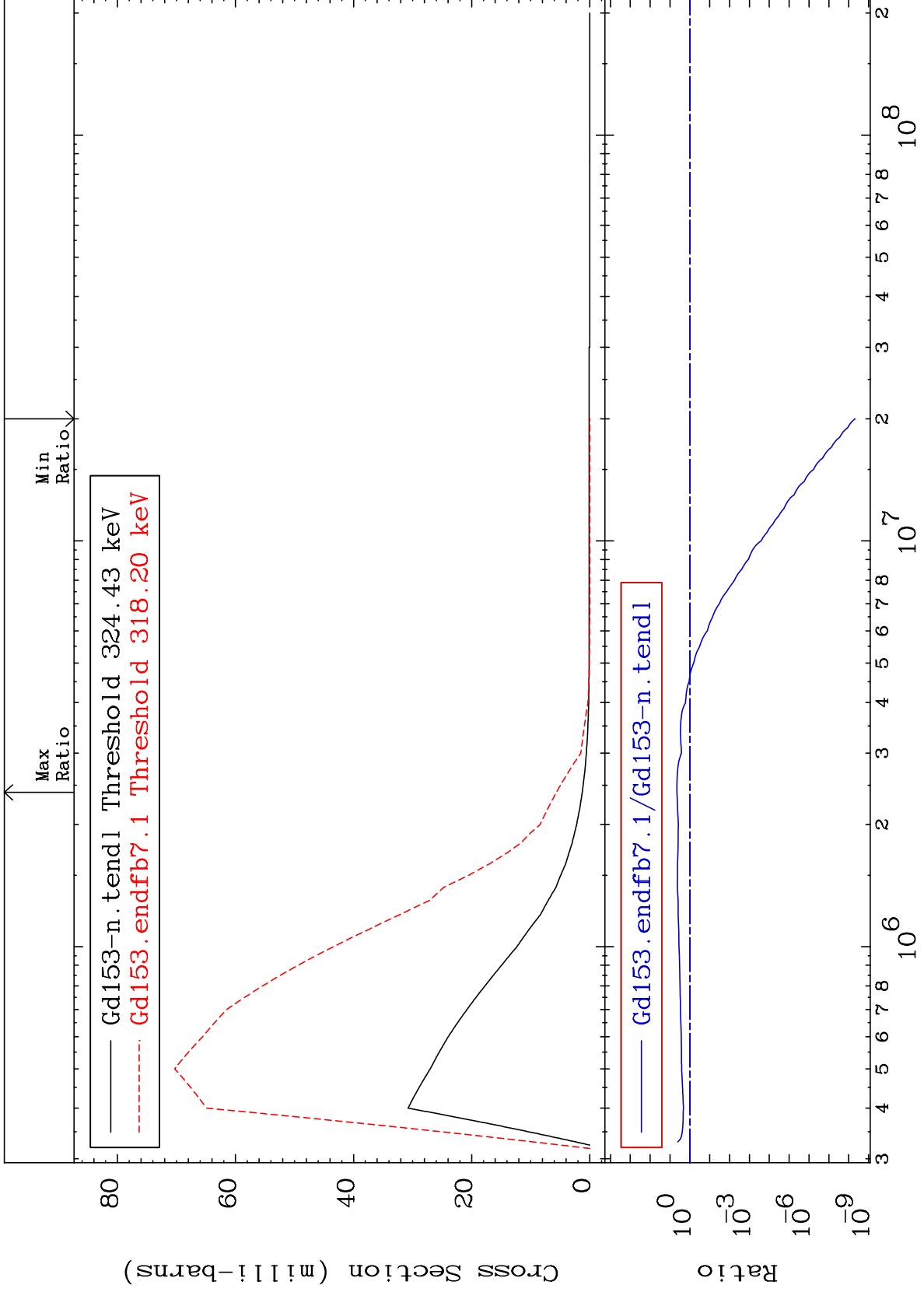
Incident Energy (eV)

64-Gd-153

MAT 6428

322.3 keV (n,n') Level
Cross Section

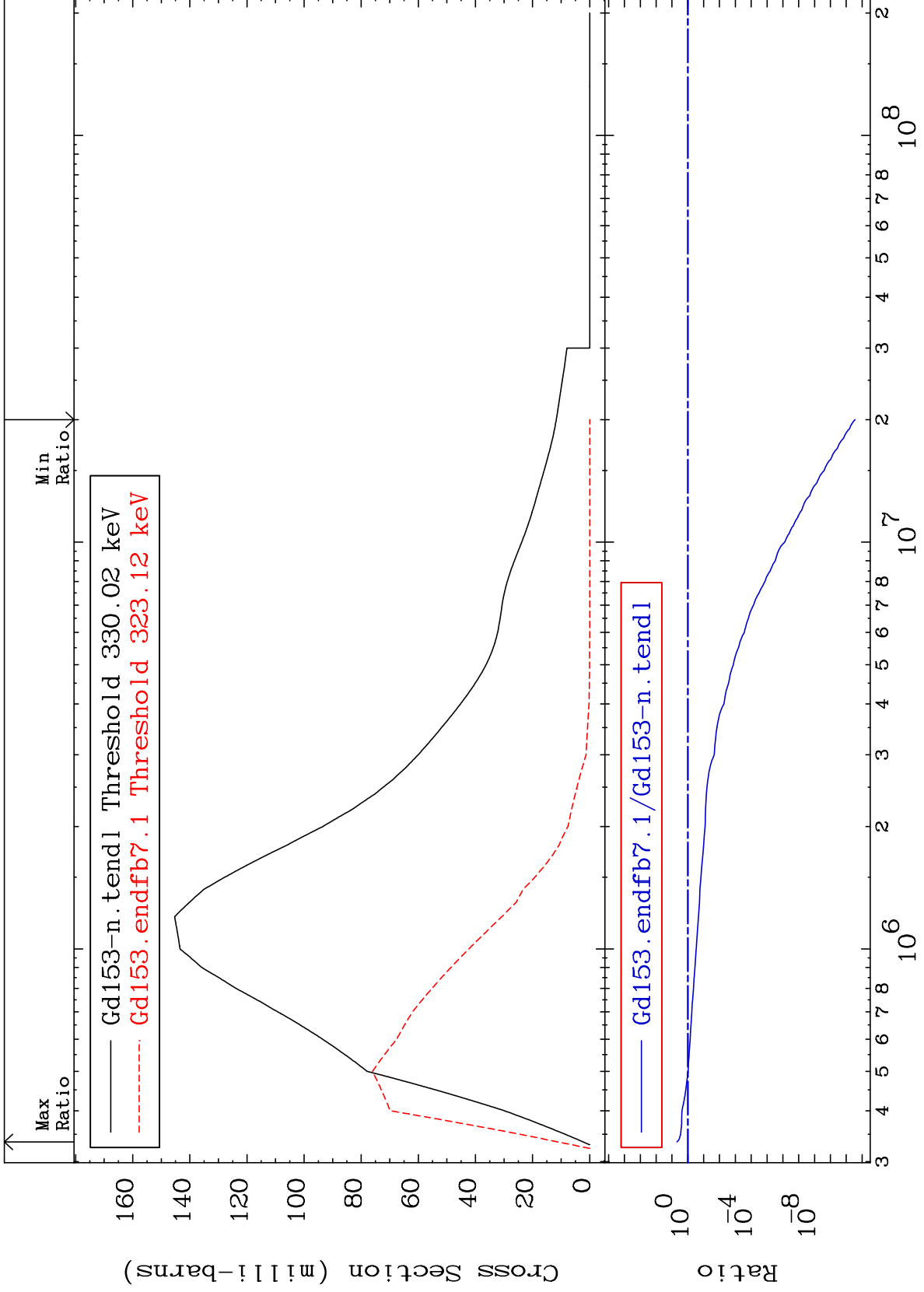
64-Gd-153
-100.0 To 347.9 %



MAT 6428

327.9 keV (n,n') Level
Cross Section

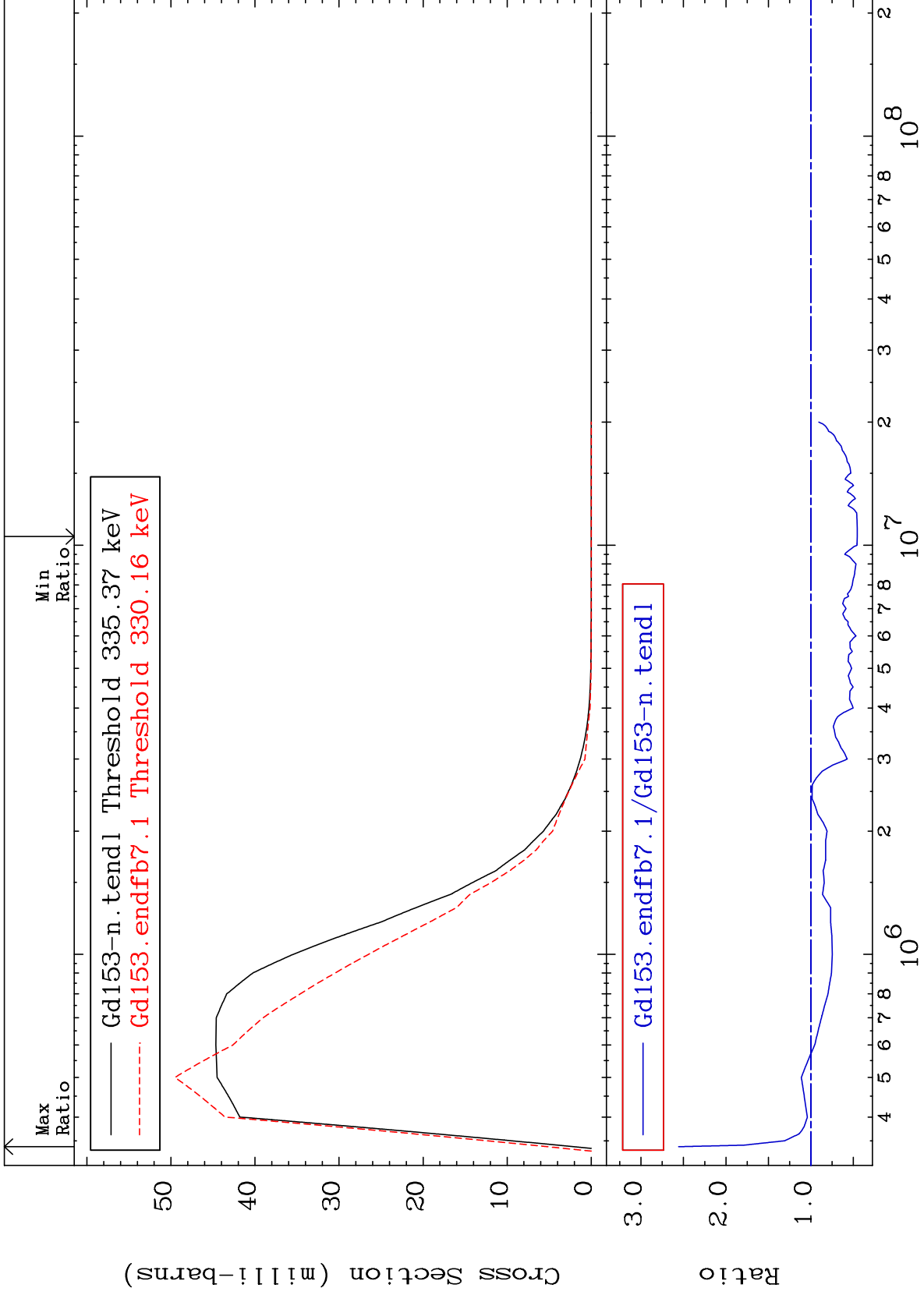
64-Gd-153
-100.0 To 387.9 %



MAT 6428

333.2 keV (n,n') Level
Cross Section

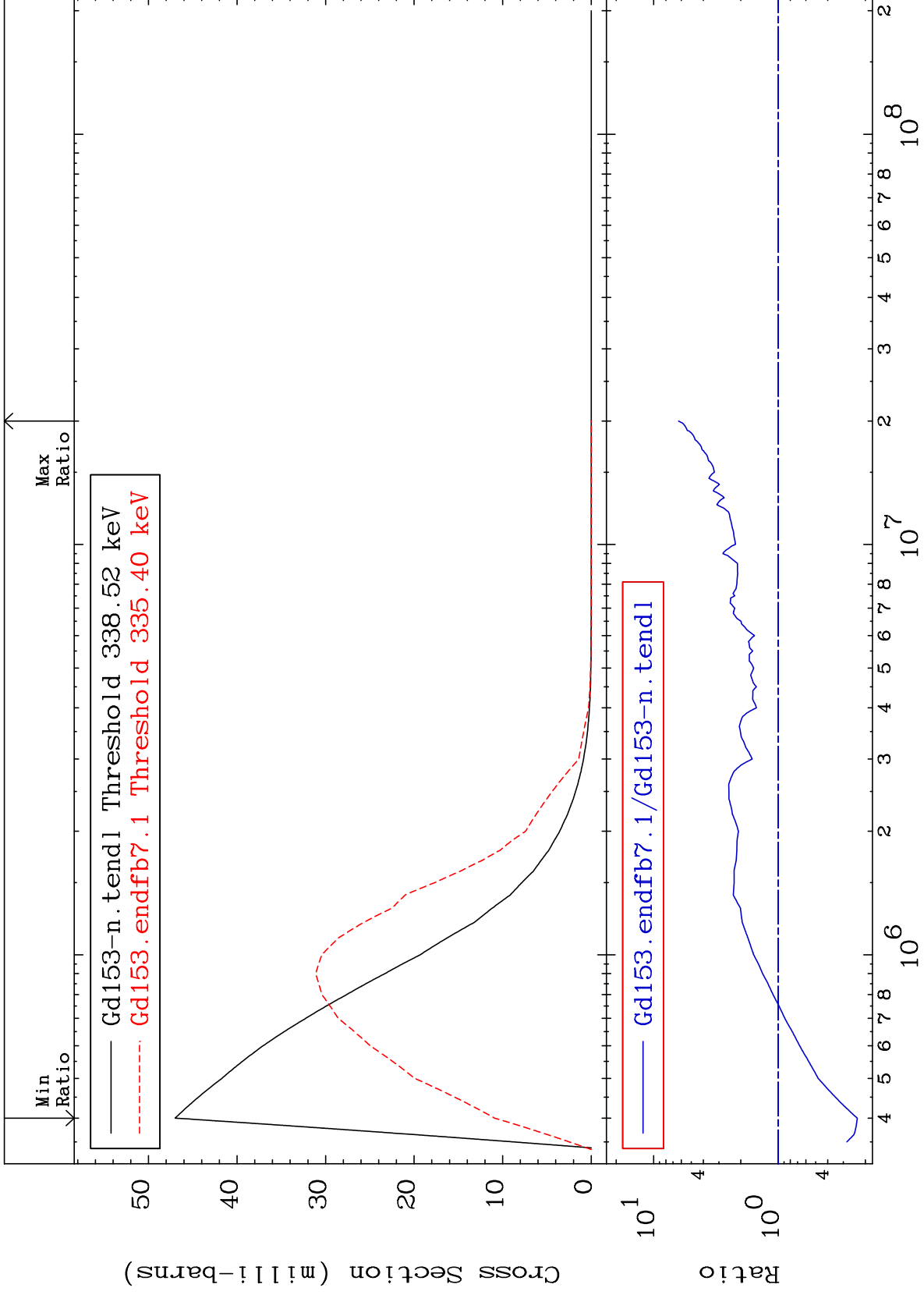
64-Gd-153
-54.63 To 155.7 %



MAT 6428

336.3 keV (n,n') Level
Cross Section

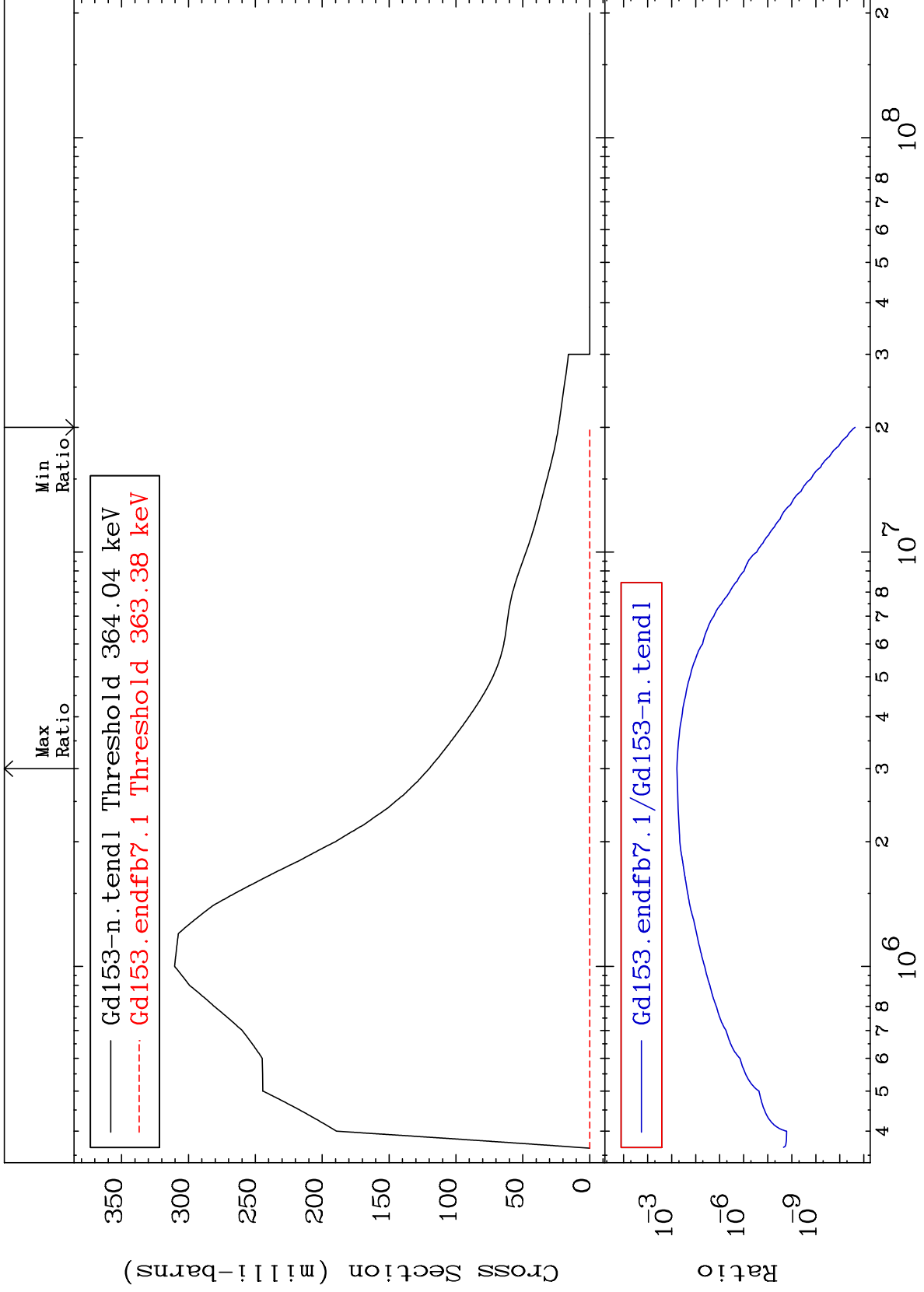
64-Gd-153
-76.79 To 531.0 %



MAT 6428

361.7 keV (n,n') Level
Cross Section

64-Gd-153
-100.0 To -99.94%



31

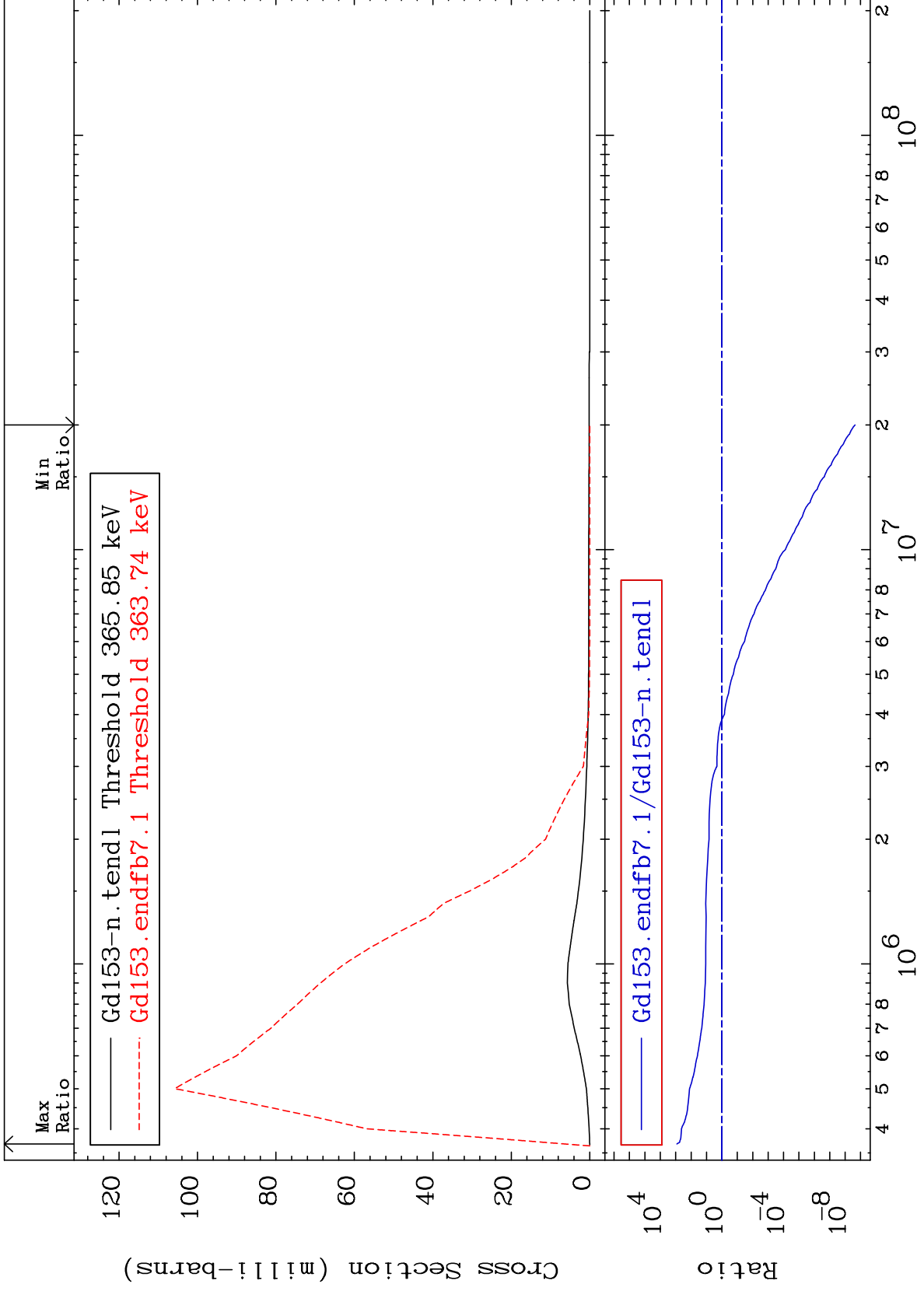
Incident Energy (eV)

64-Gd-153

MAT 6428

363.4 keV (n,n') Level
Cross Section

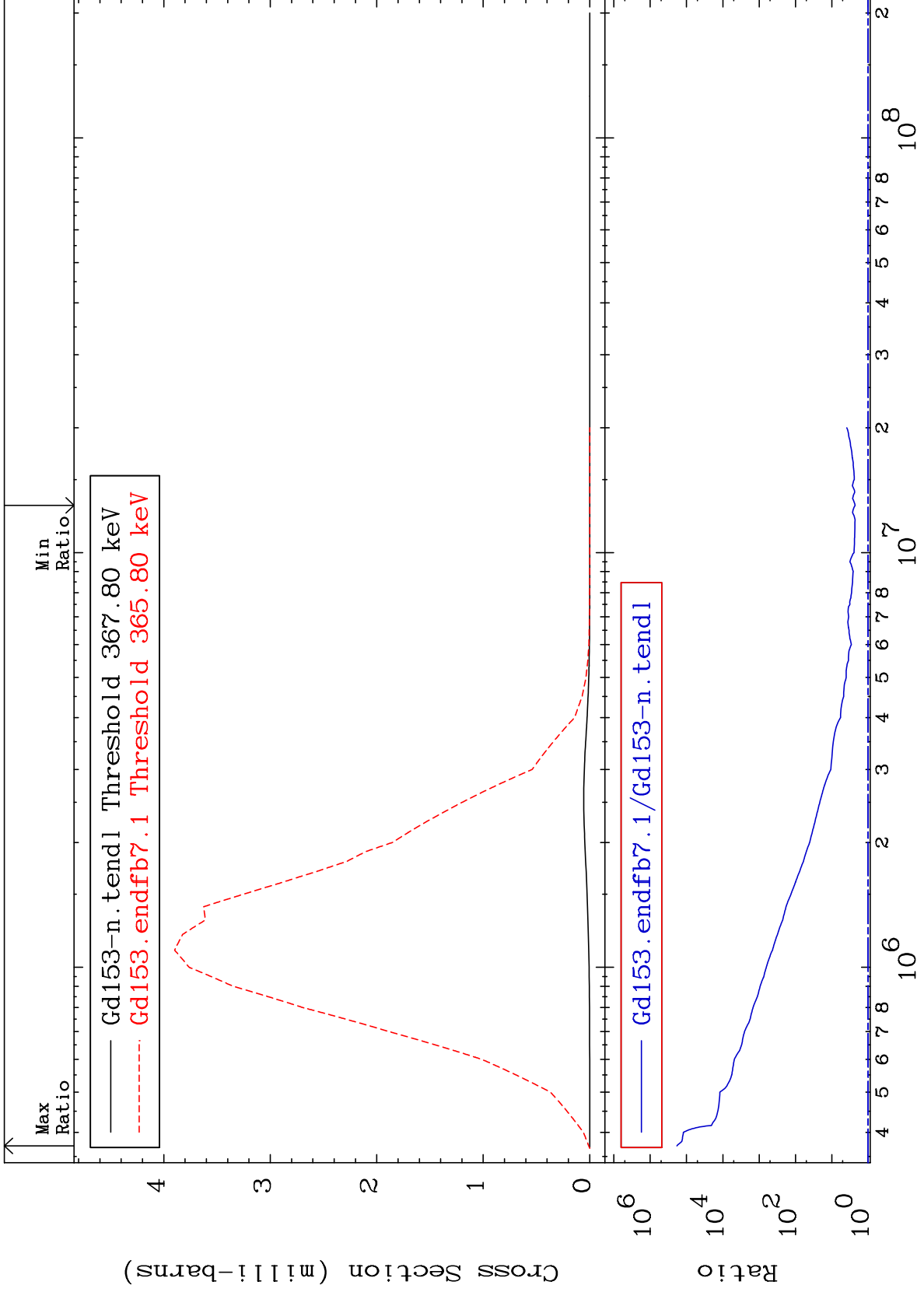
64-Gd-153
-100.0 To 9999. %



MAT 6428

365.4 keV (n,n') Level
Cross Section

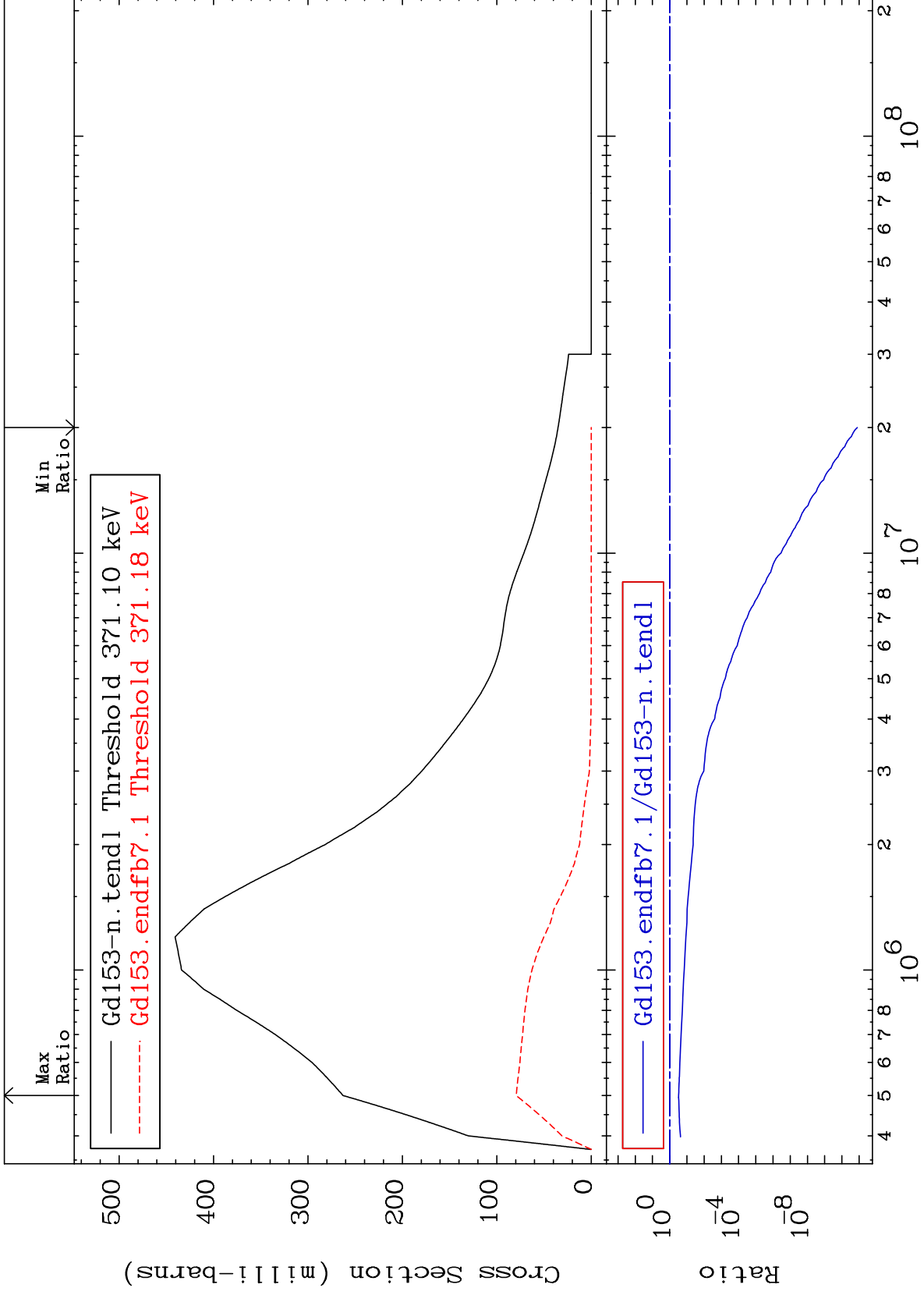
64-Gd-153
128.4 To 9999. %



MAT 6428

368.7 keV (n,n') Level
Cross Section

64-Gd-153
-100.0 To -69.78%



34

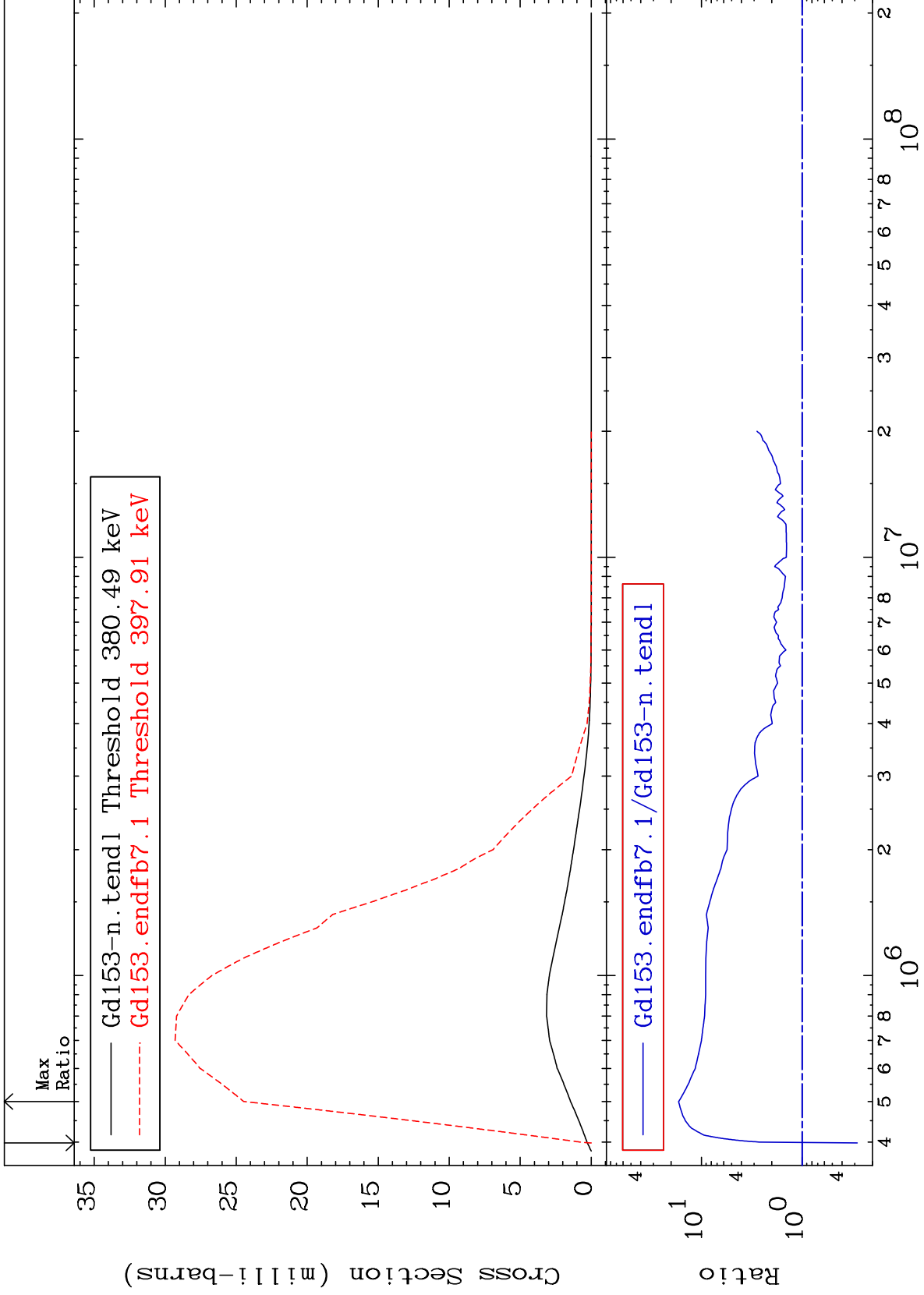
Incident Energy (eV)

64-Gd-153

MAT 6428

378.0 keV (n,n') Level
Cross Section

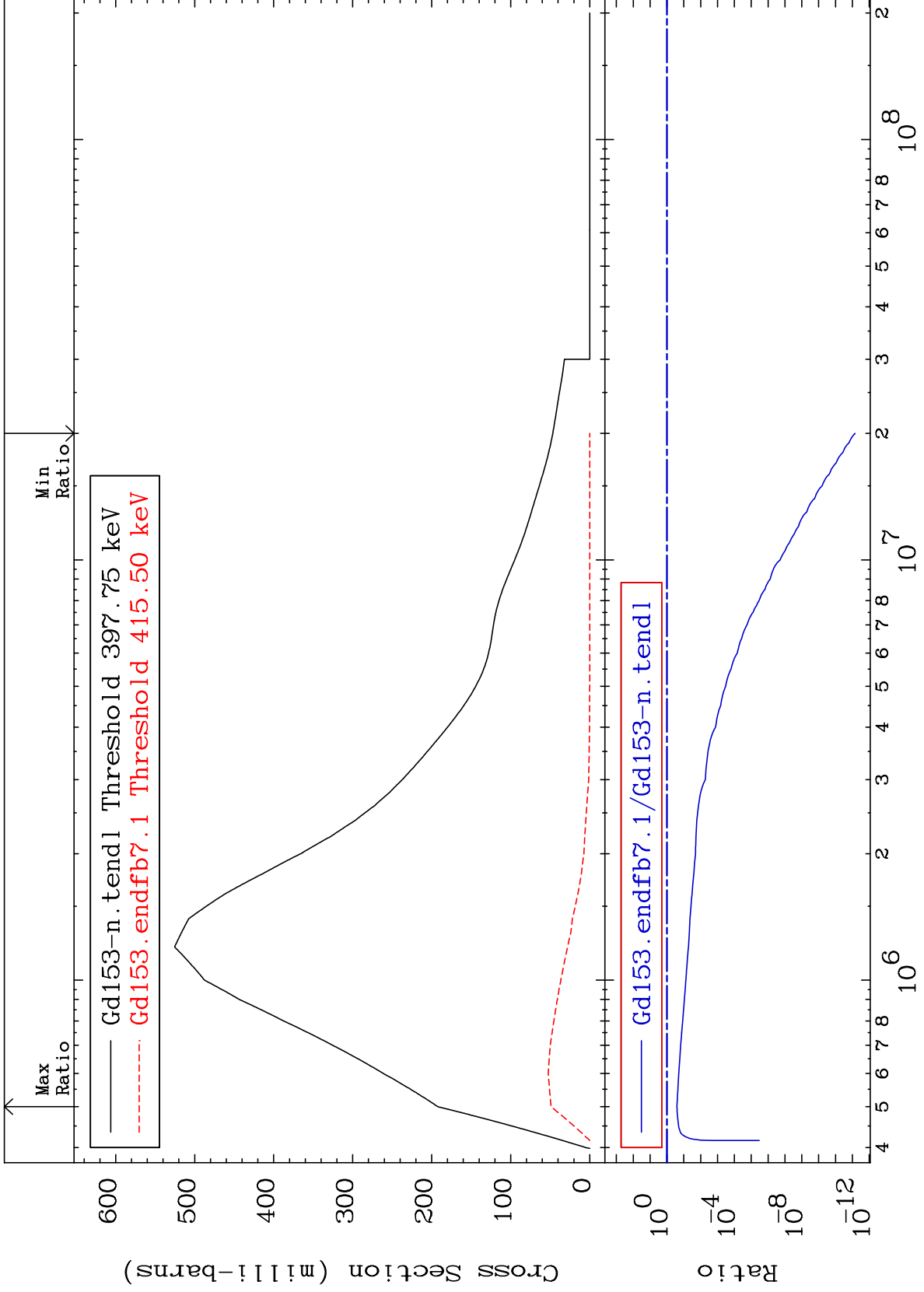
64-Gd-153
-71.70 To 1583. %



MAT 6428

395.1 keV (n,n') Level
Cross Section

64-Gd-153
-100.0 To -74.48%



36

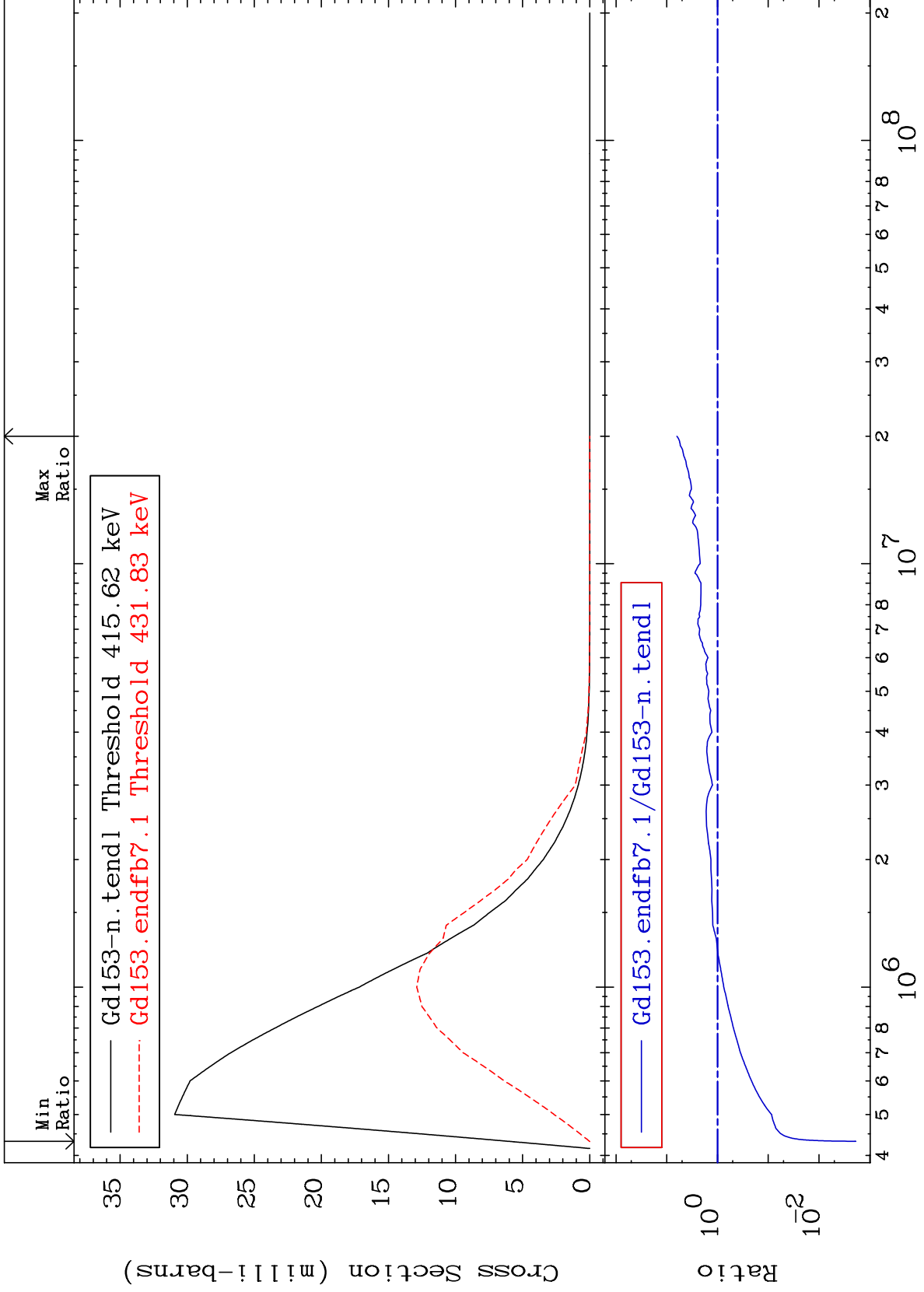
Incident Energy (eV)

64-Gd-153

MAT 6428

412.9 keV (n,n') Level
Cross Section

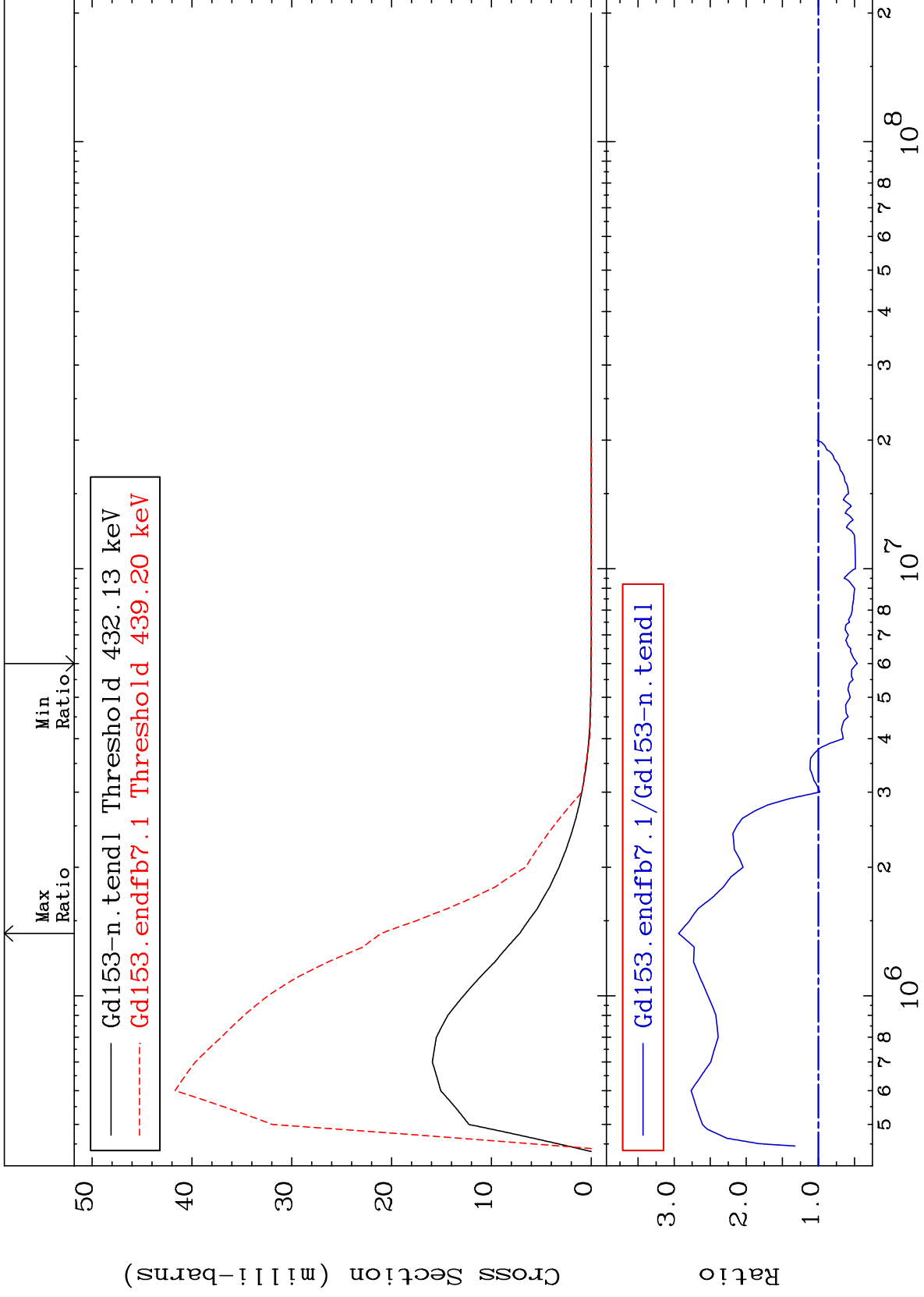
64-Gd-153
-99.81 To 529.8 %



MAT 6428

429.3 keV (n,n') Level
Cross Section

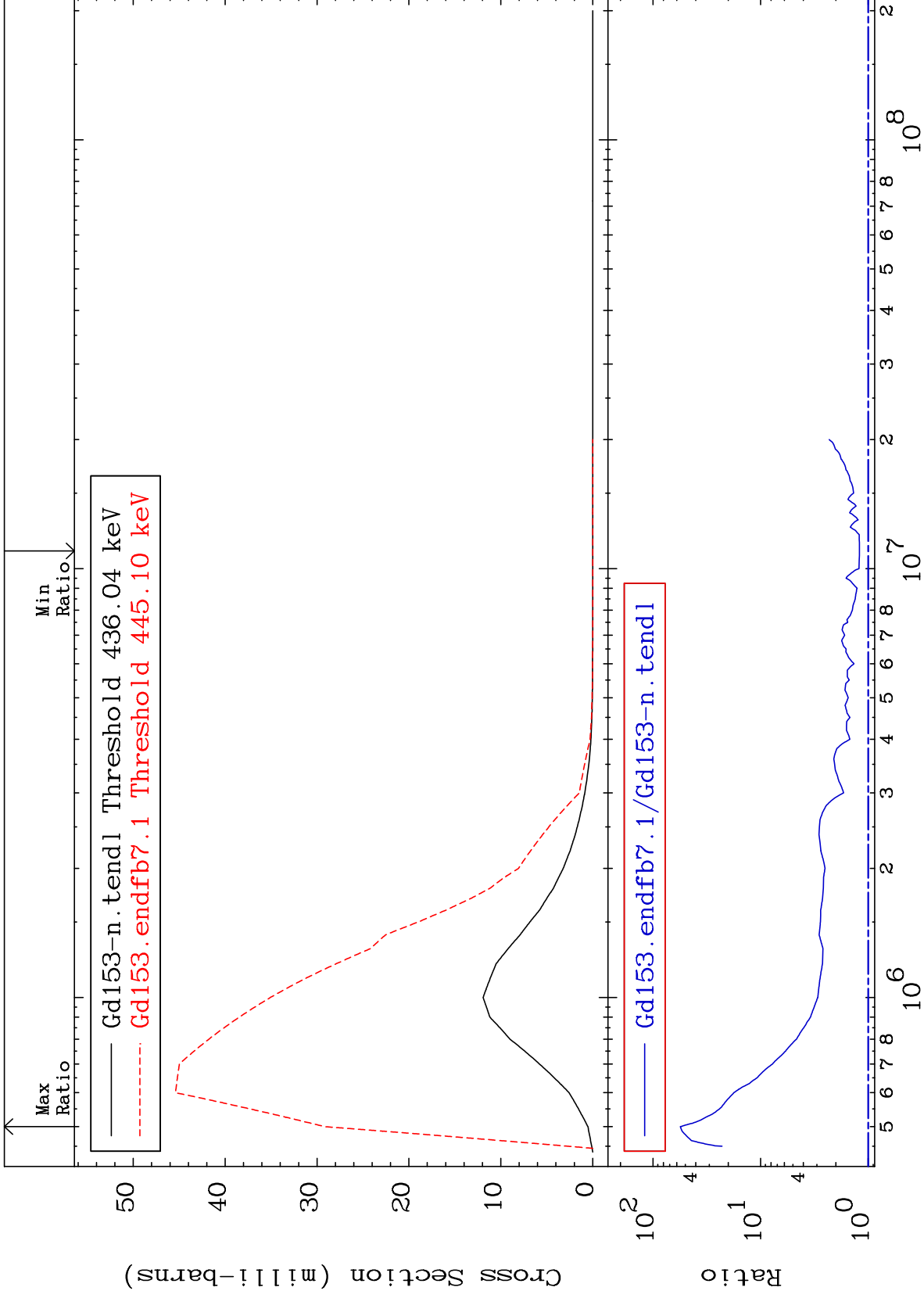
64-Gd-153
-53.80 To 193.8 %

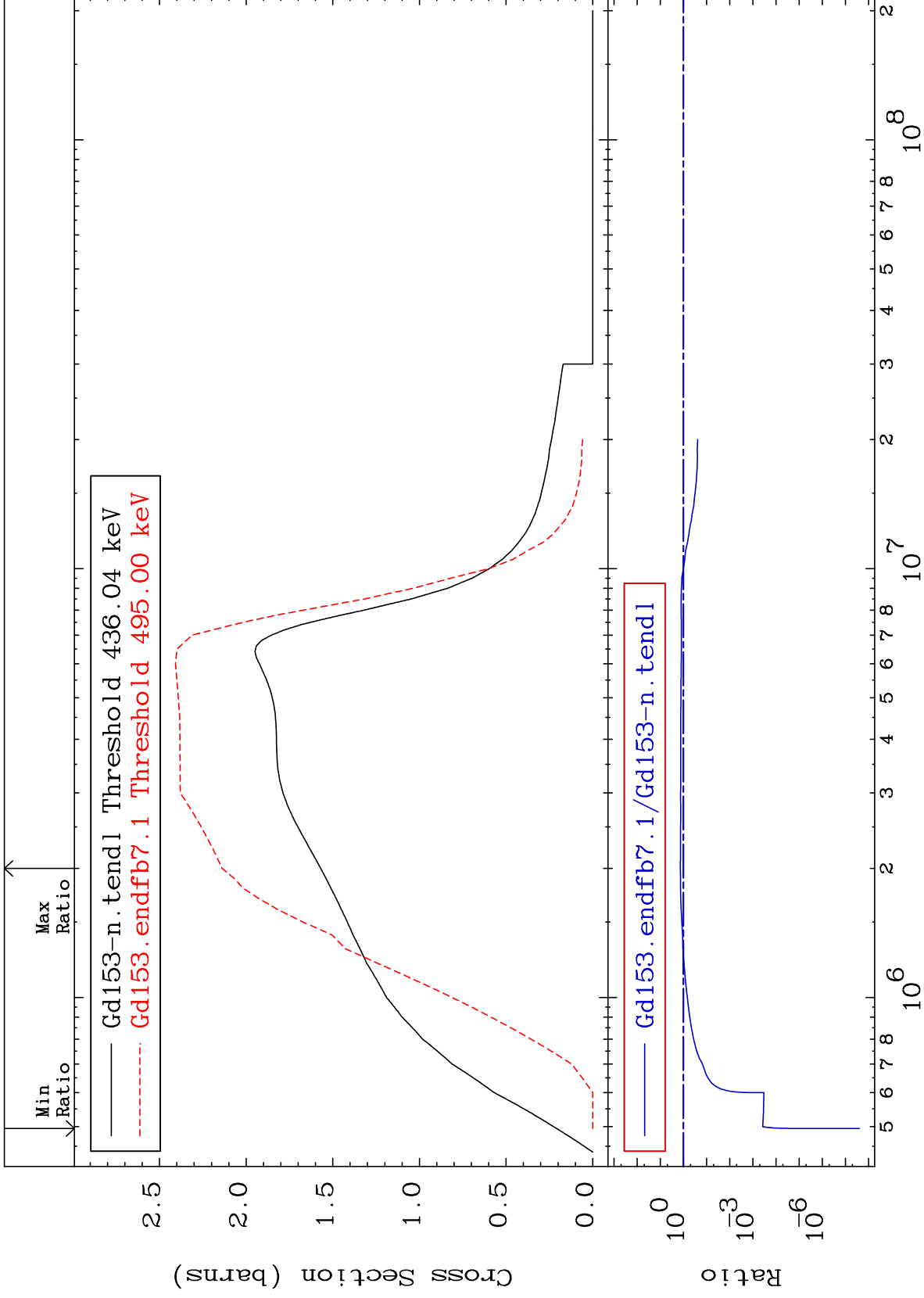


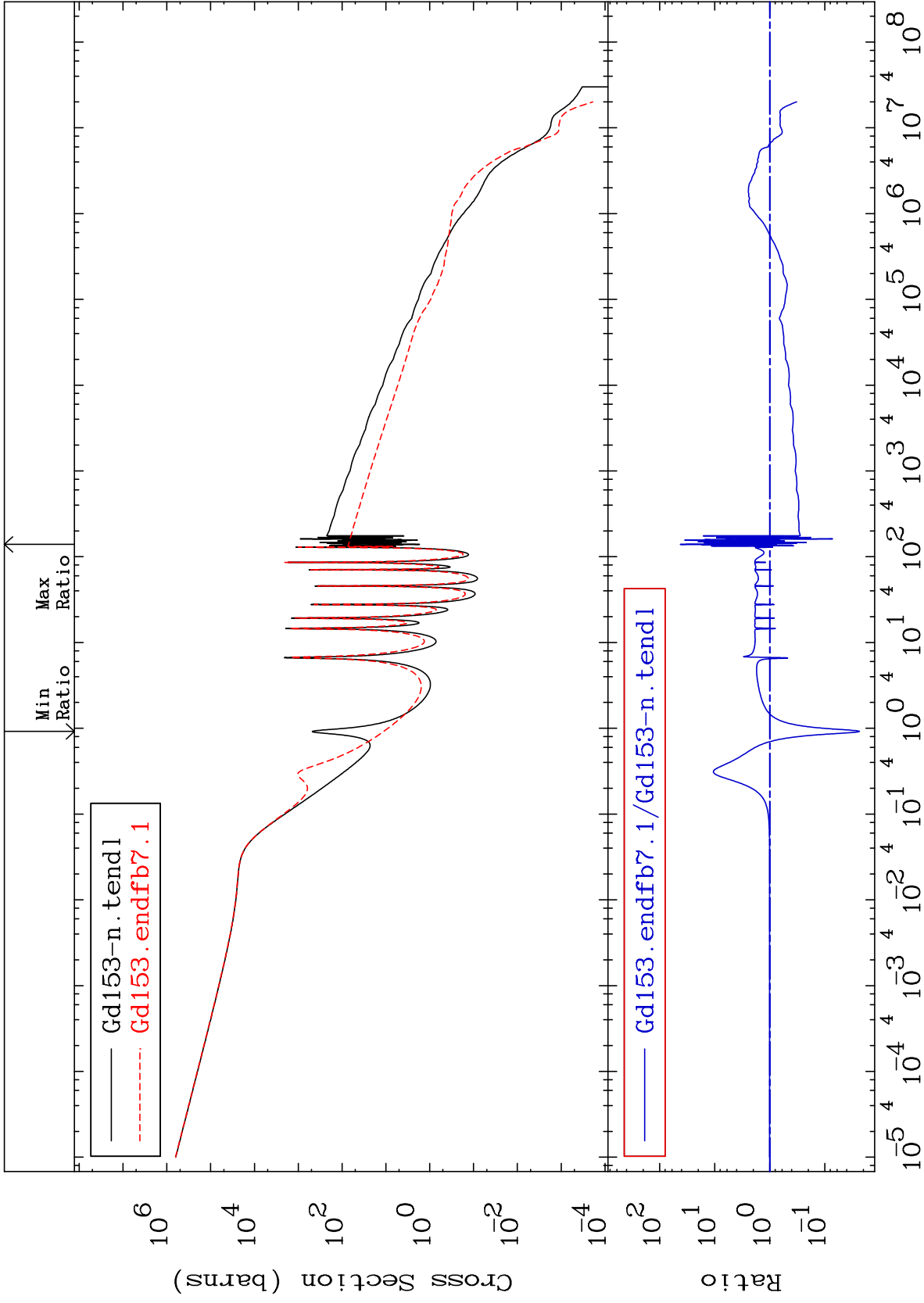
MAT 6428

433.2 keV (n,n') Level
Cross Section

64-Gd-153
20.55 To 5464. %



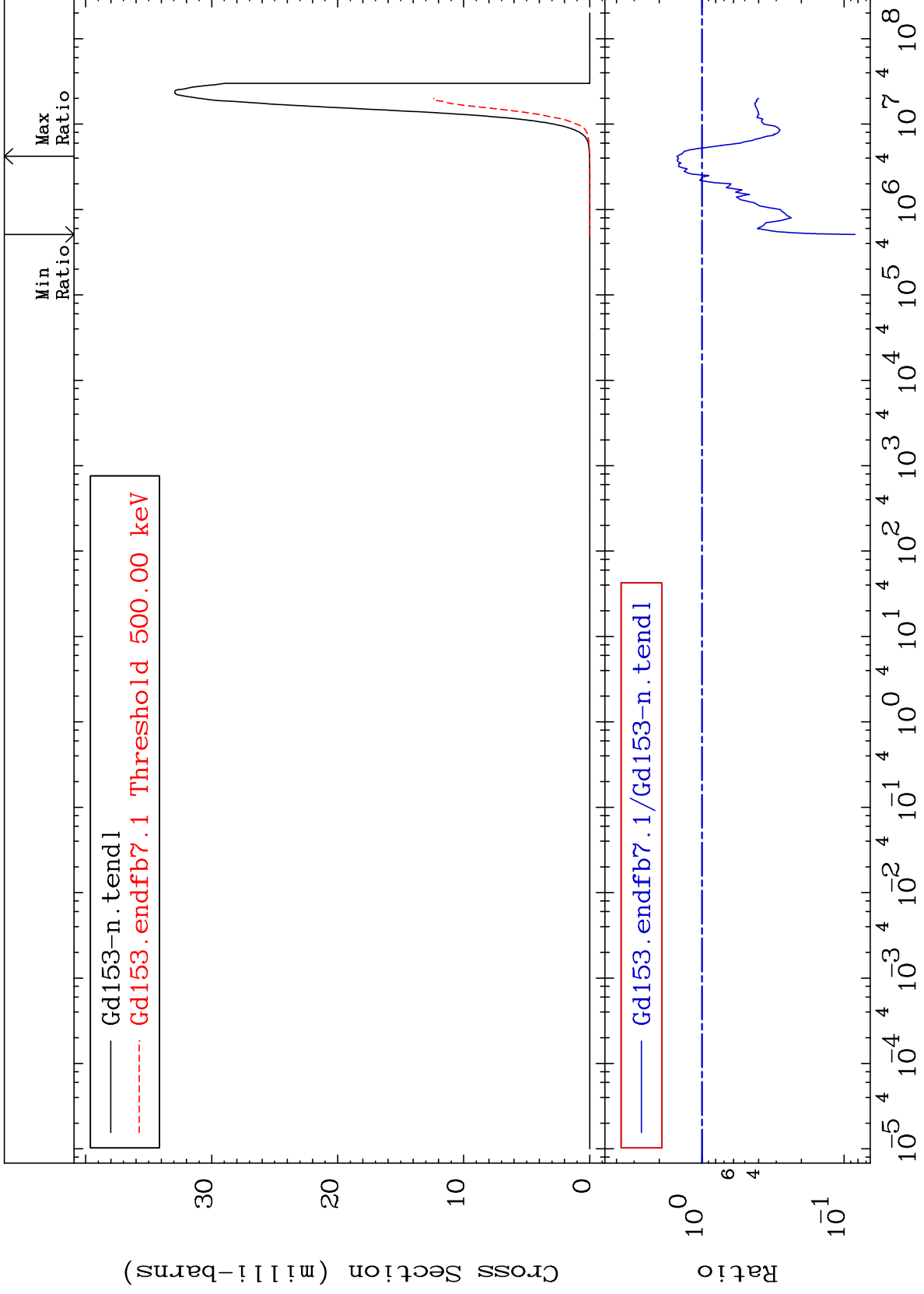




MAT 6428

(n,p)
Cross Section

64-Gd-153
-91.63 To 50.10 %



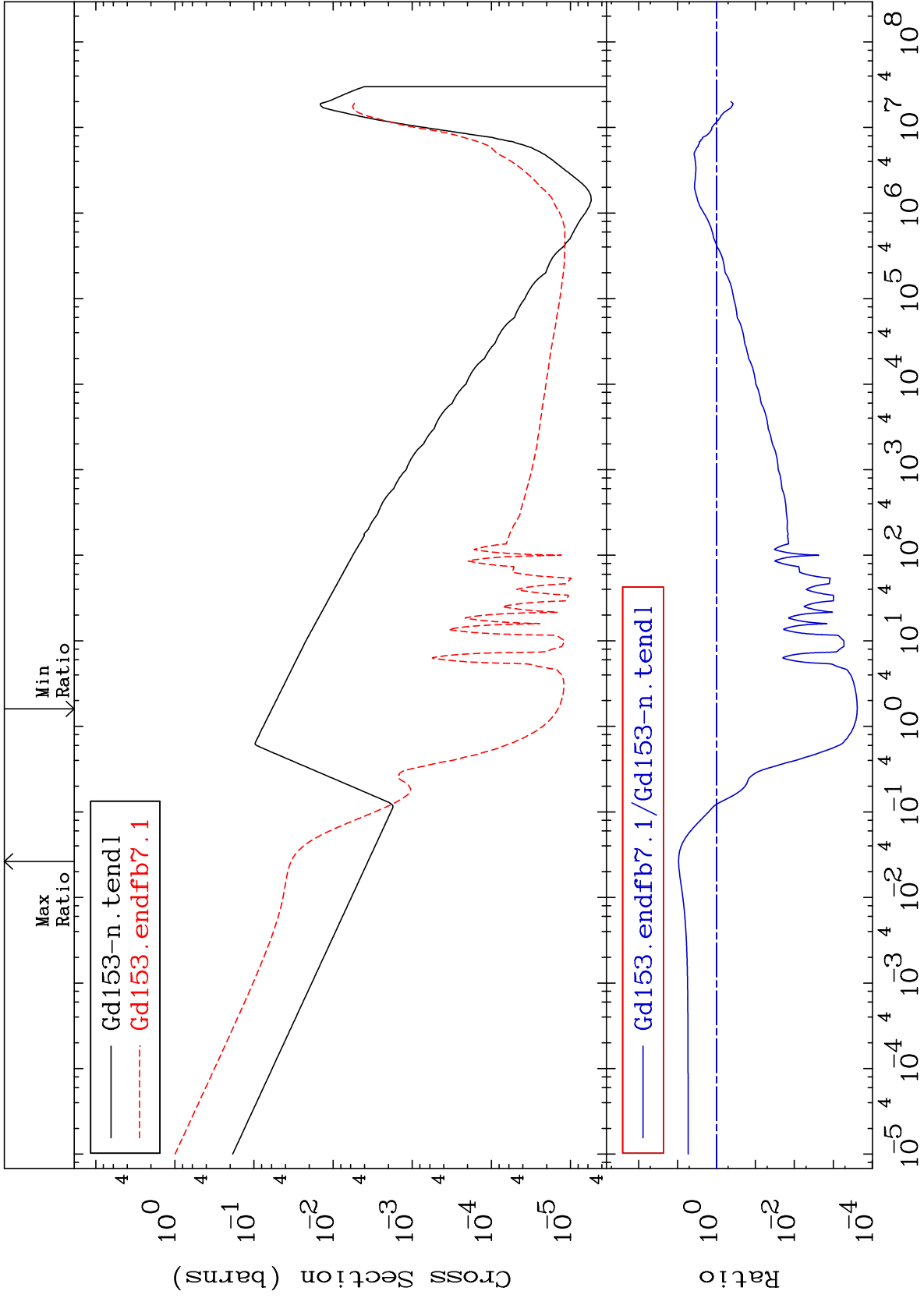
MAT 6428

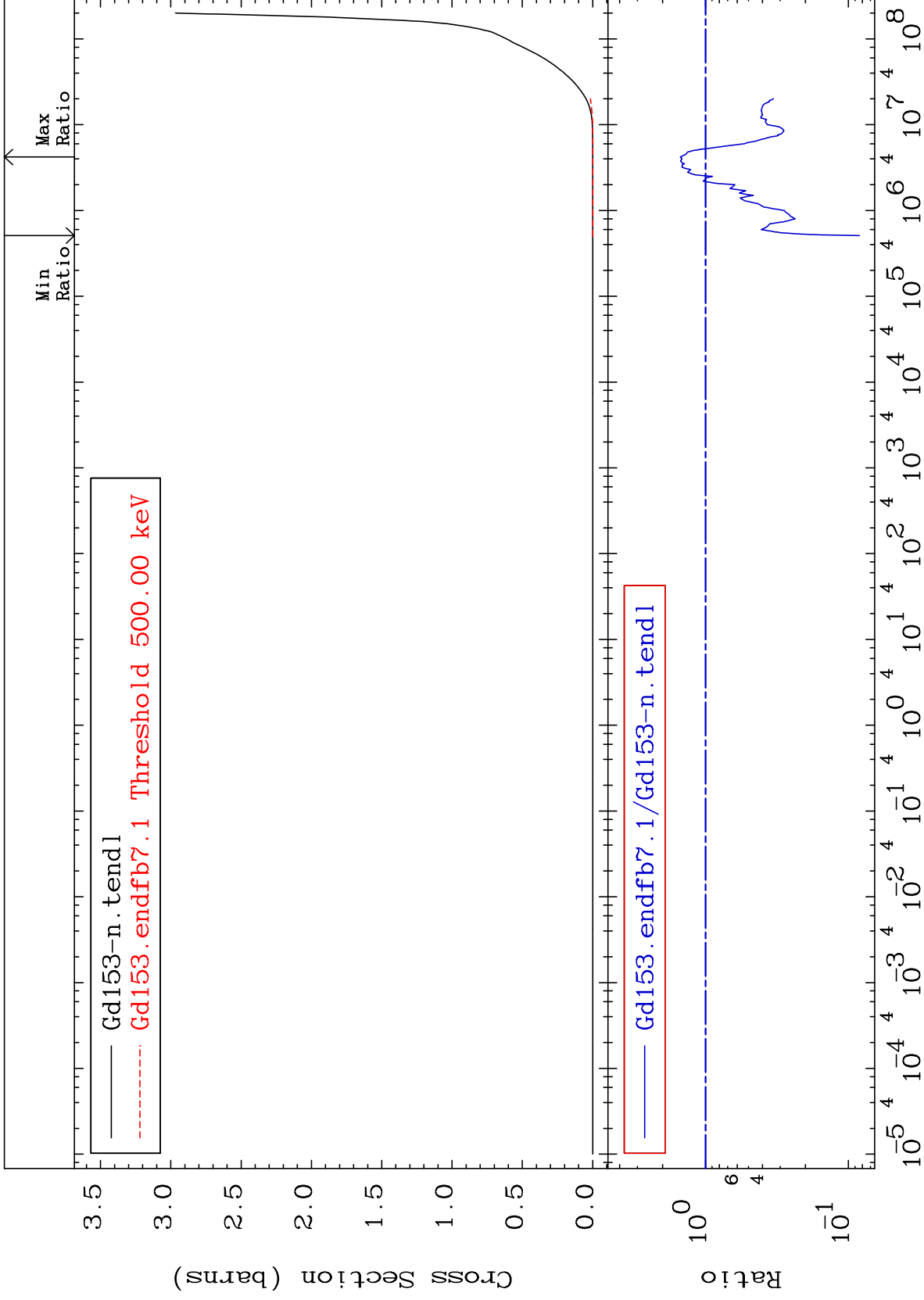
(n, α)

64-Gd-153

Cross Section

-99.98 To 835.7 %

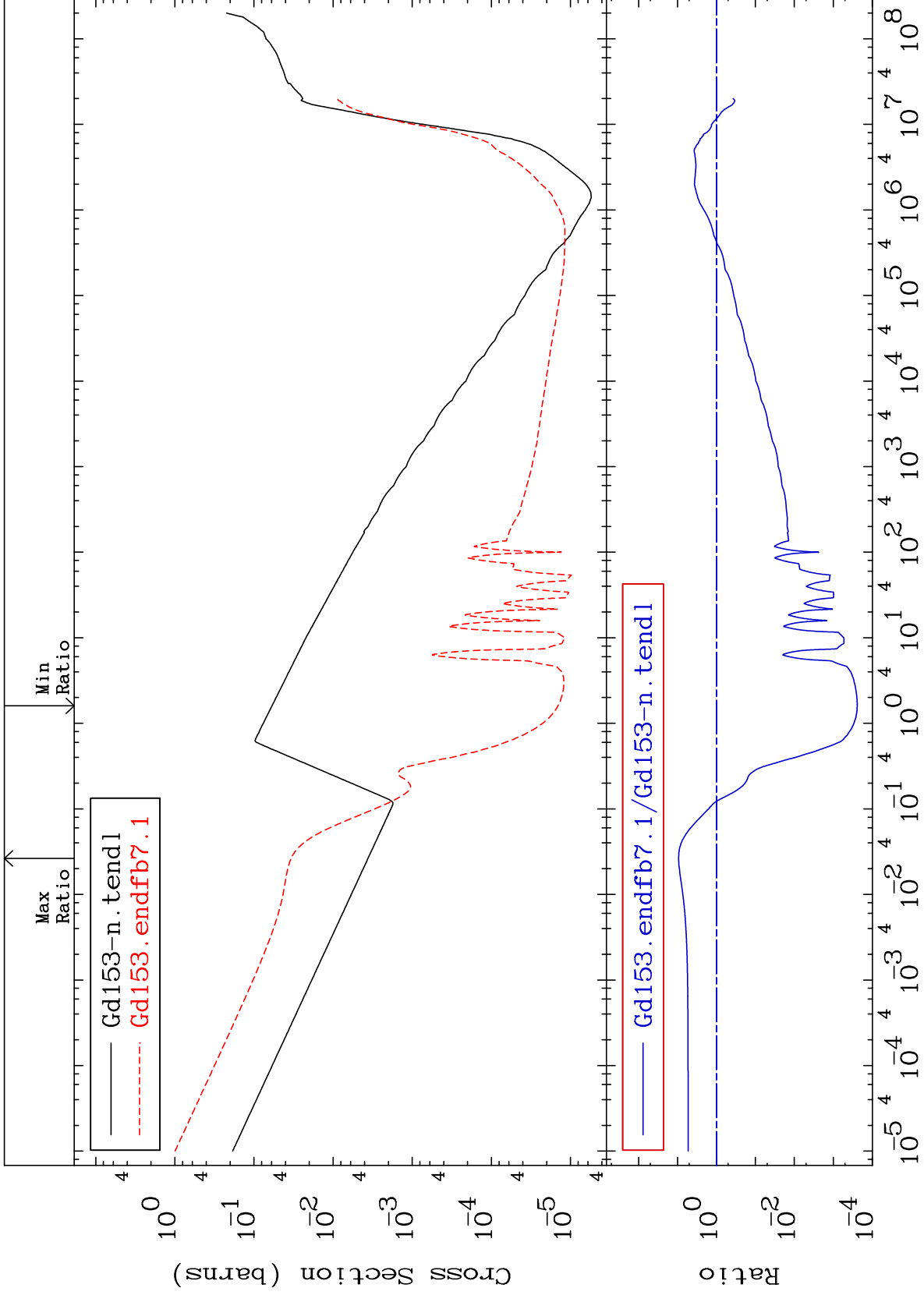




MAT 6428

He-4 Production
Cross Section

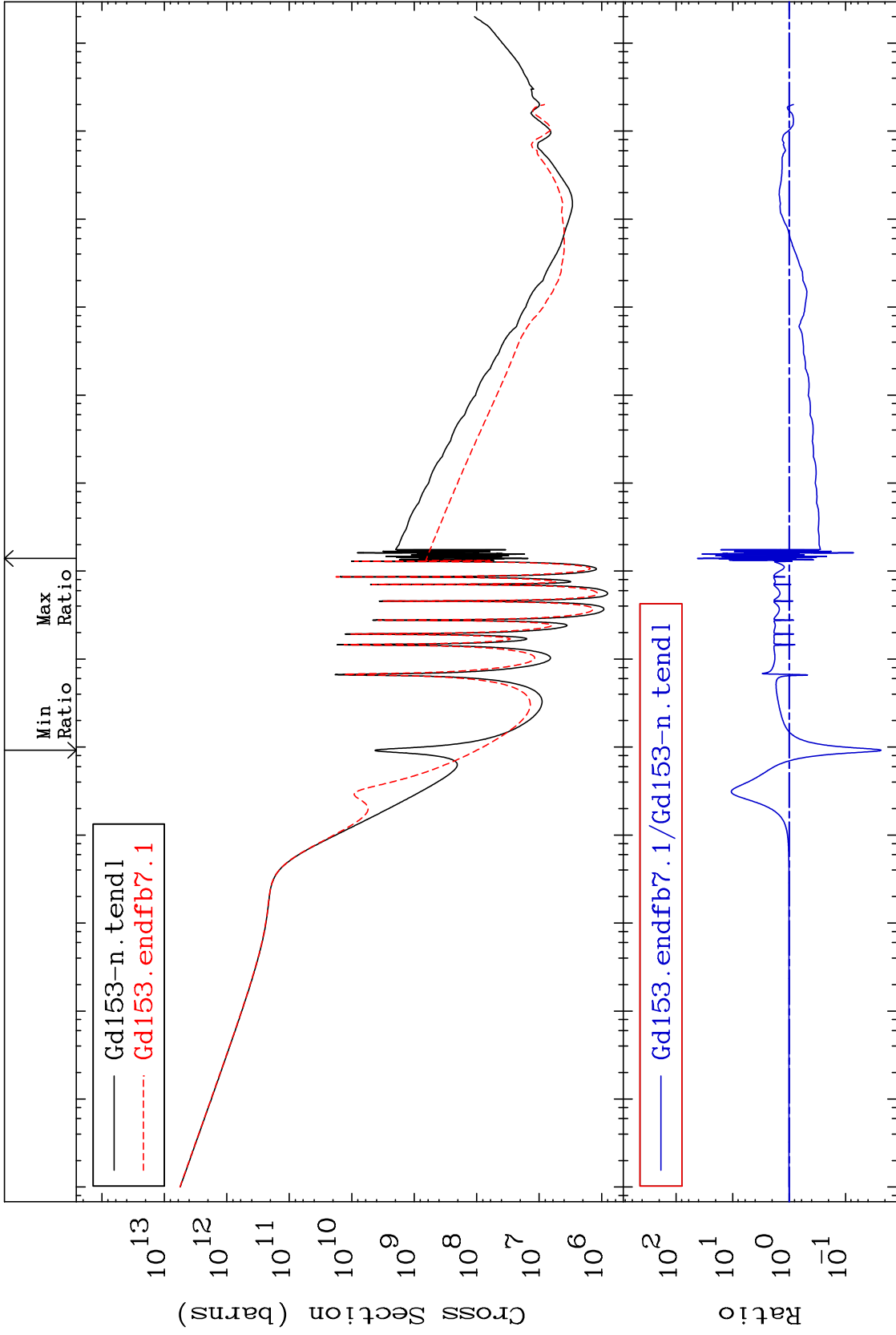
64-Gd-153
-99.98 To 835.7 %



45

Incident Energy (eV)

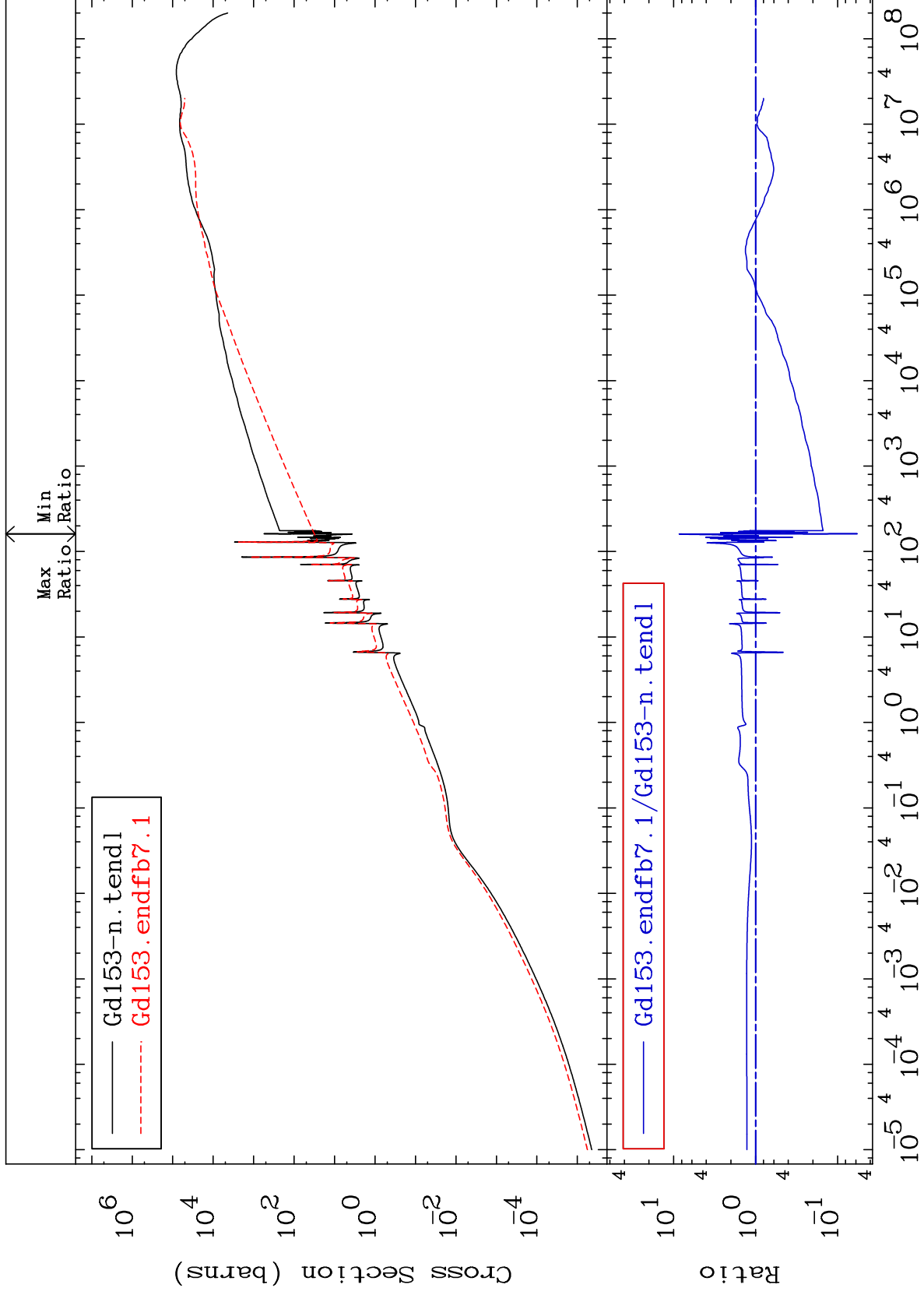
64-Gd-153

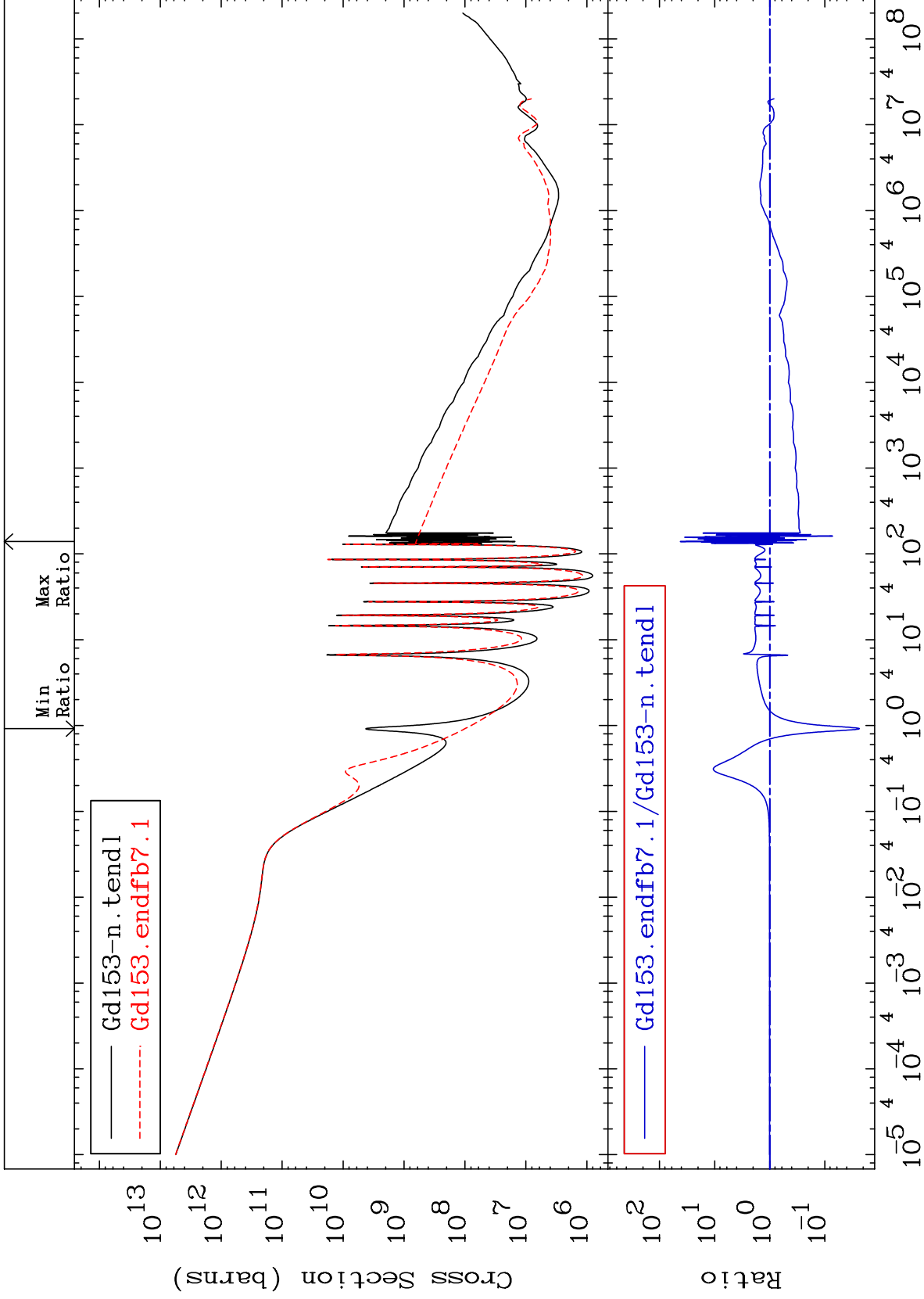


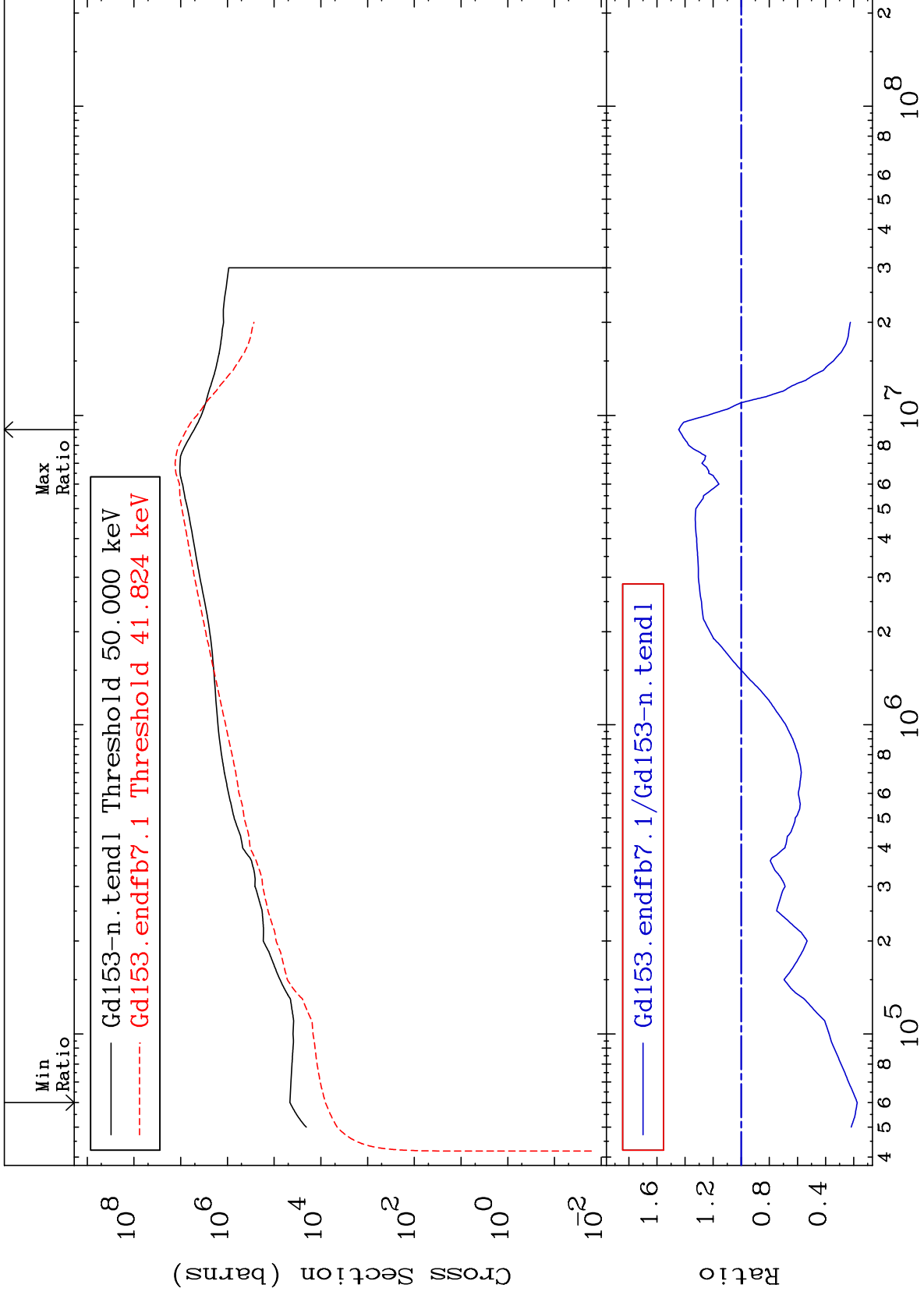
MAT 6428

Kerma elastic
Cross Section

64-Gd-153
-94.25 To 759.9 %



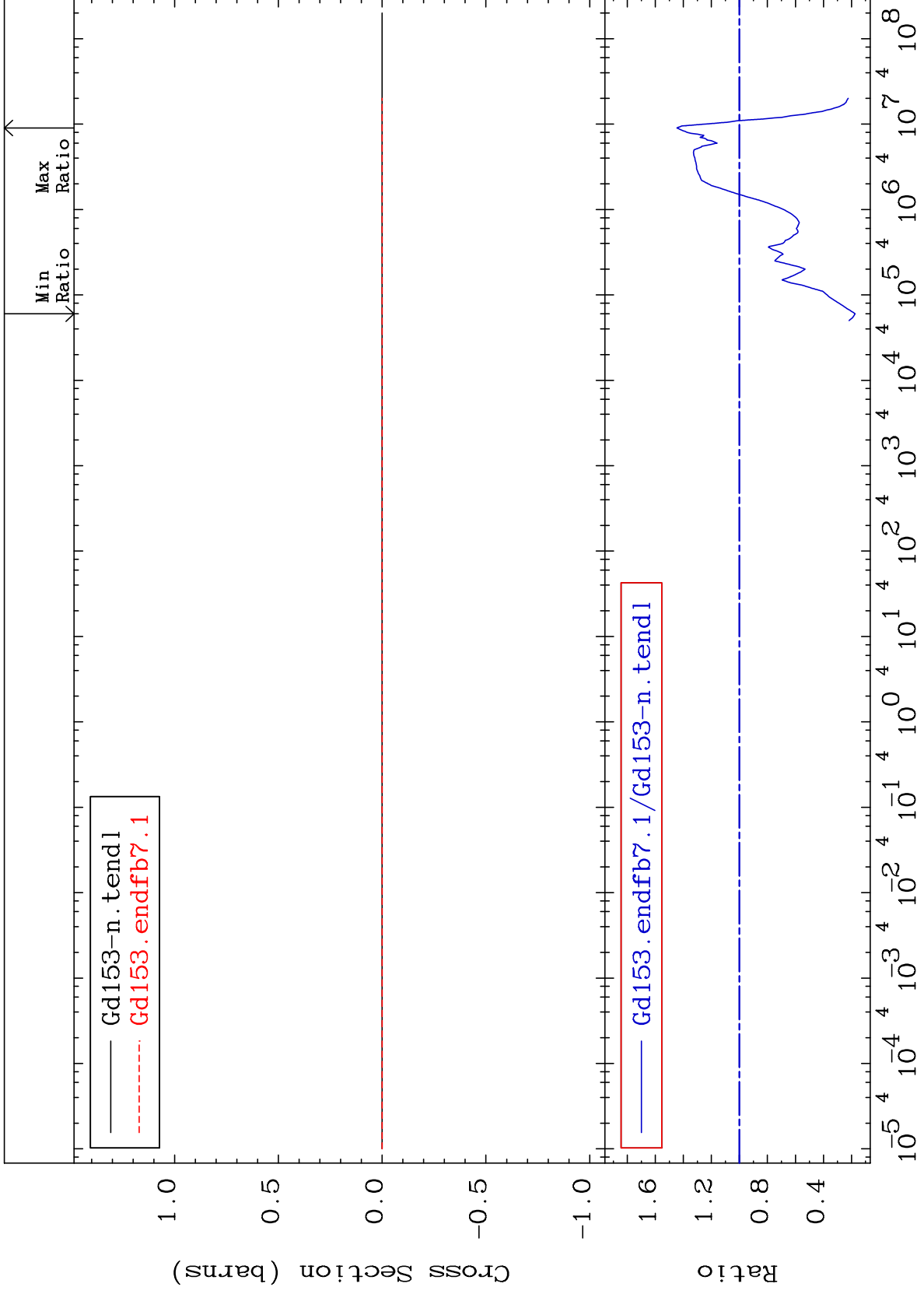


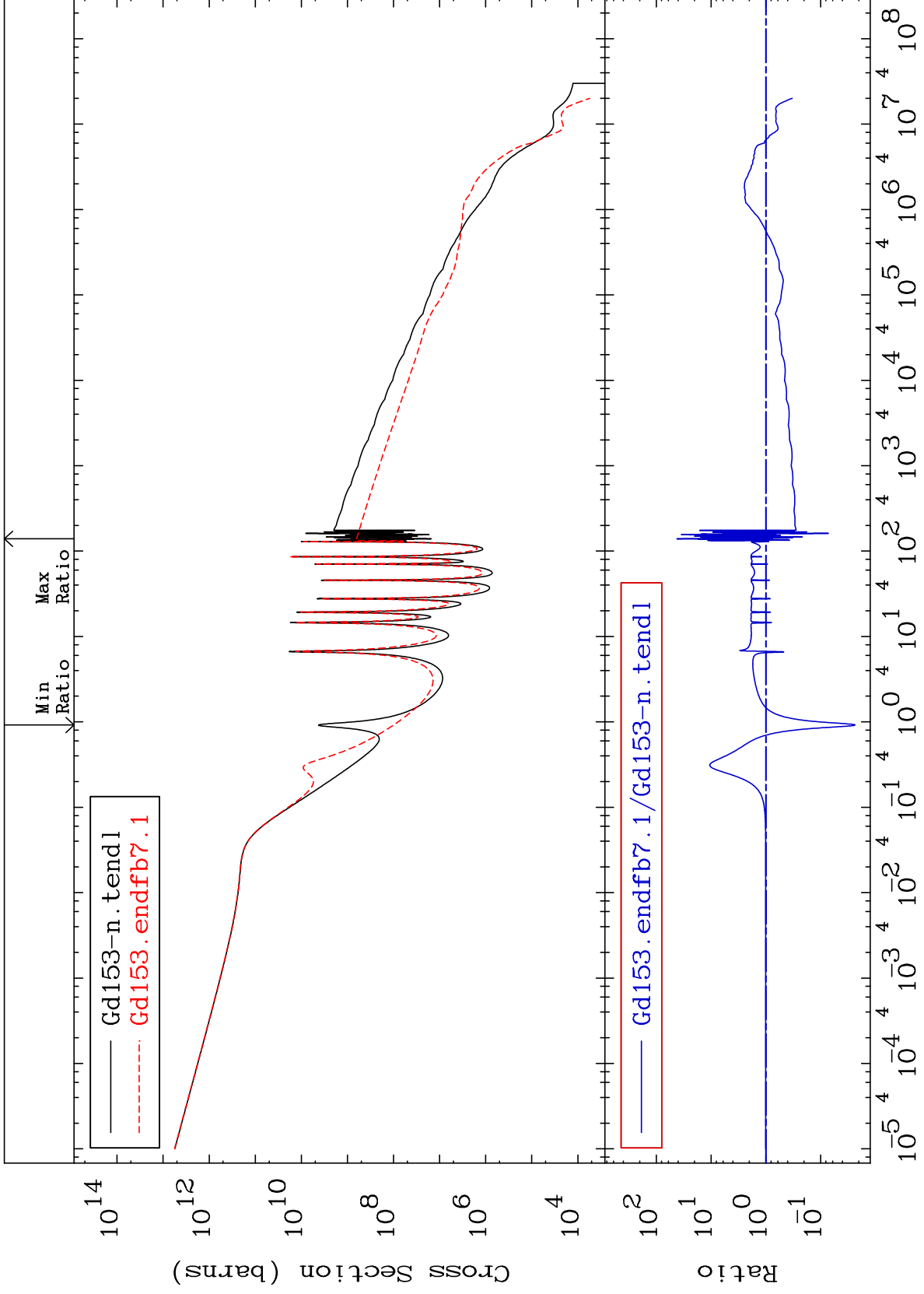


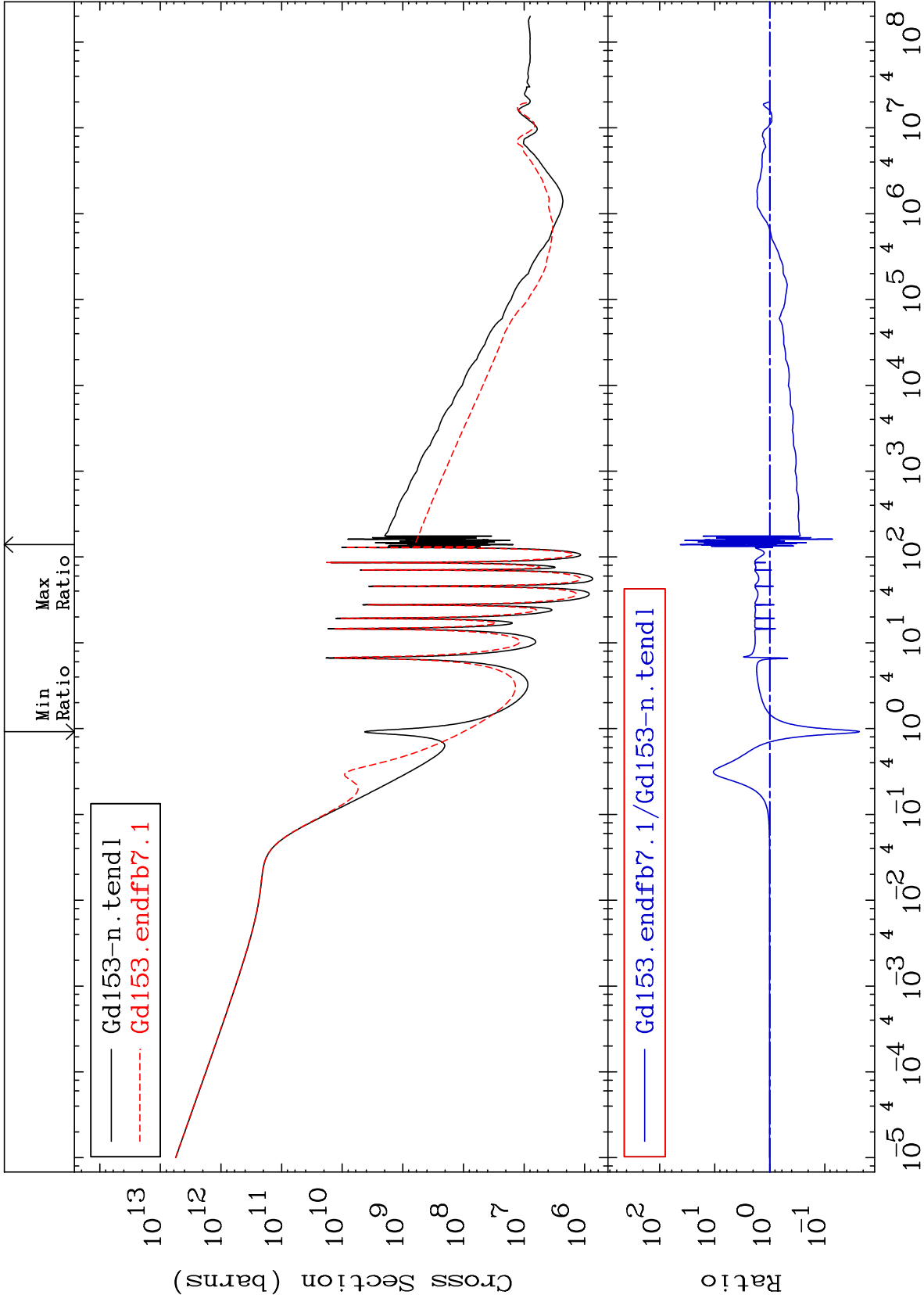
MAT 6428

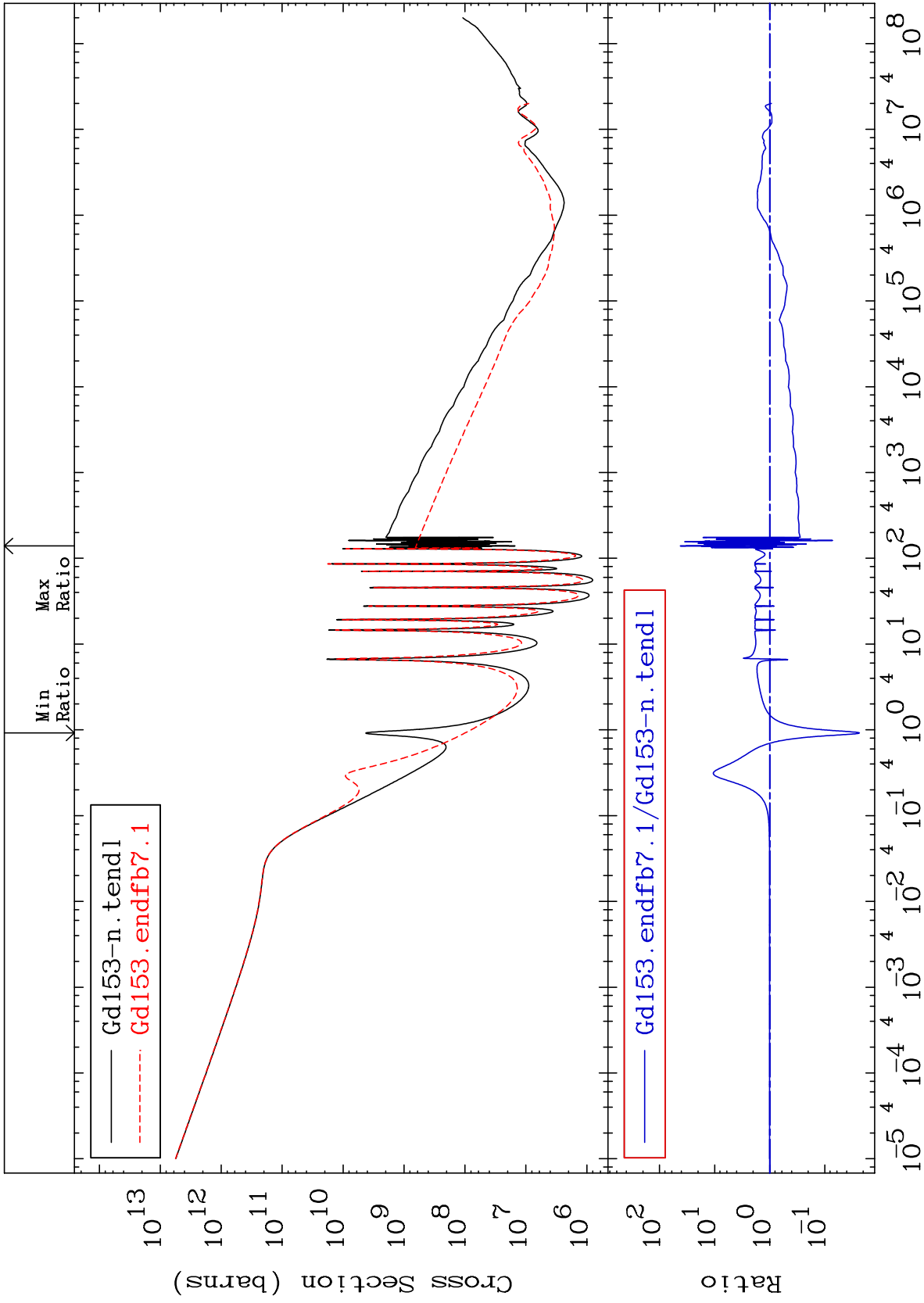
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

64-Gd-153
-82.56 To 44.59 %





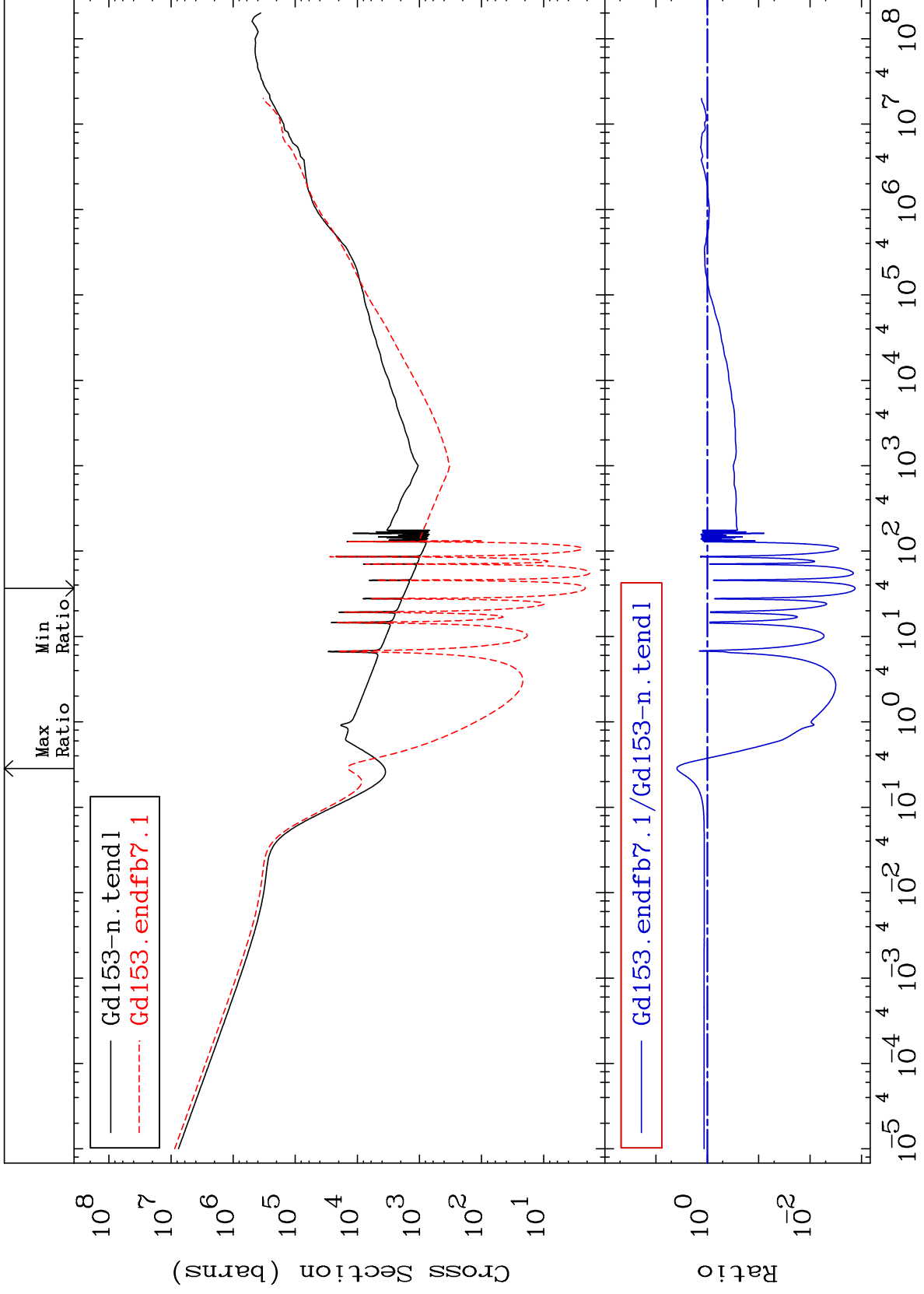




MAT 6428

Dpa total (eV-barns)
Cross Section

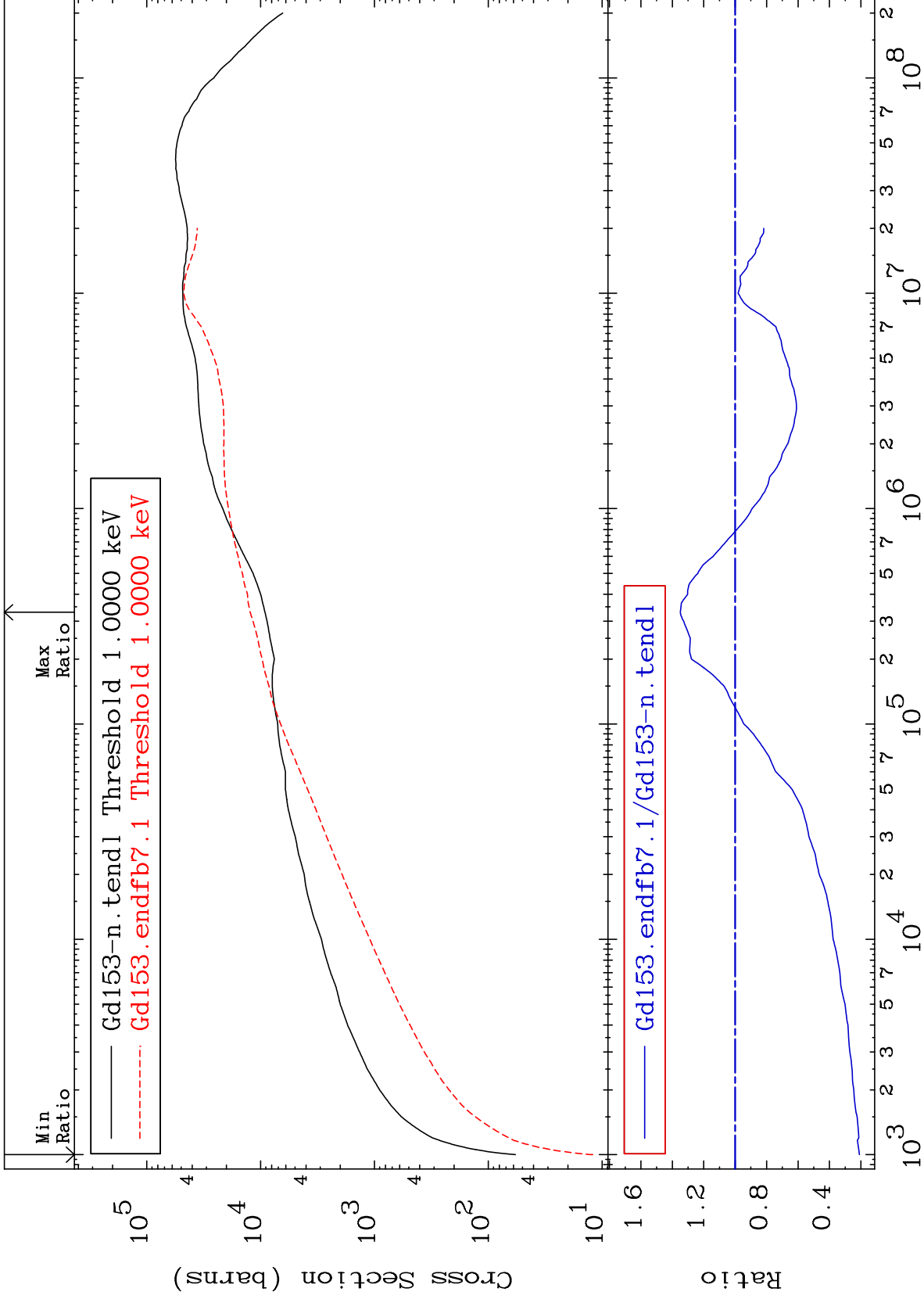
64-Gd-153
-99.87 To 289.5 %



MAT 6428

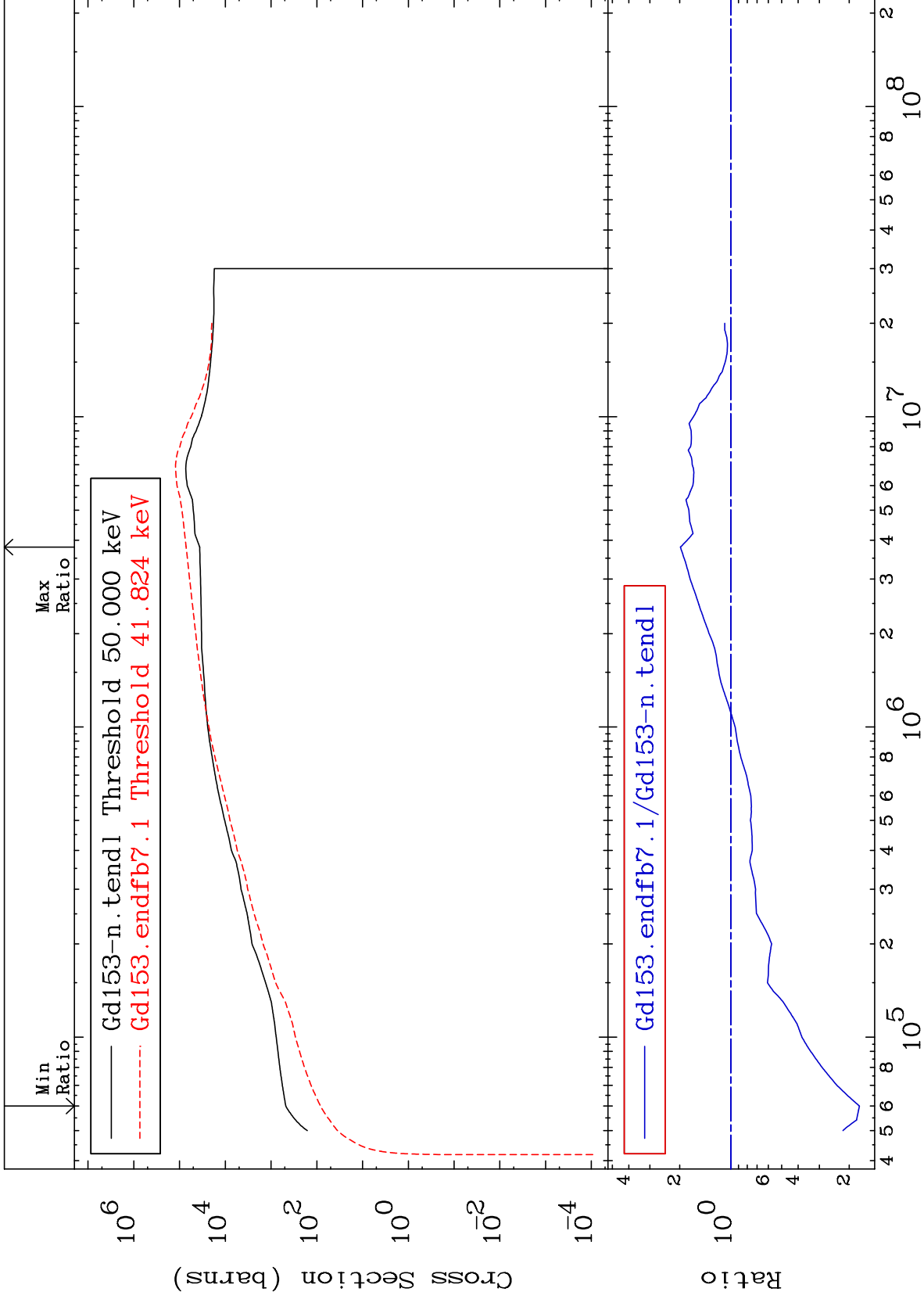
Dpa elastic (mt2)
Cross Section

64-Gd-153
-79.07 To 34.88 %



55

64-Gd-153



MAT 6428

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-153
-99.87 To 289.5 %

