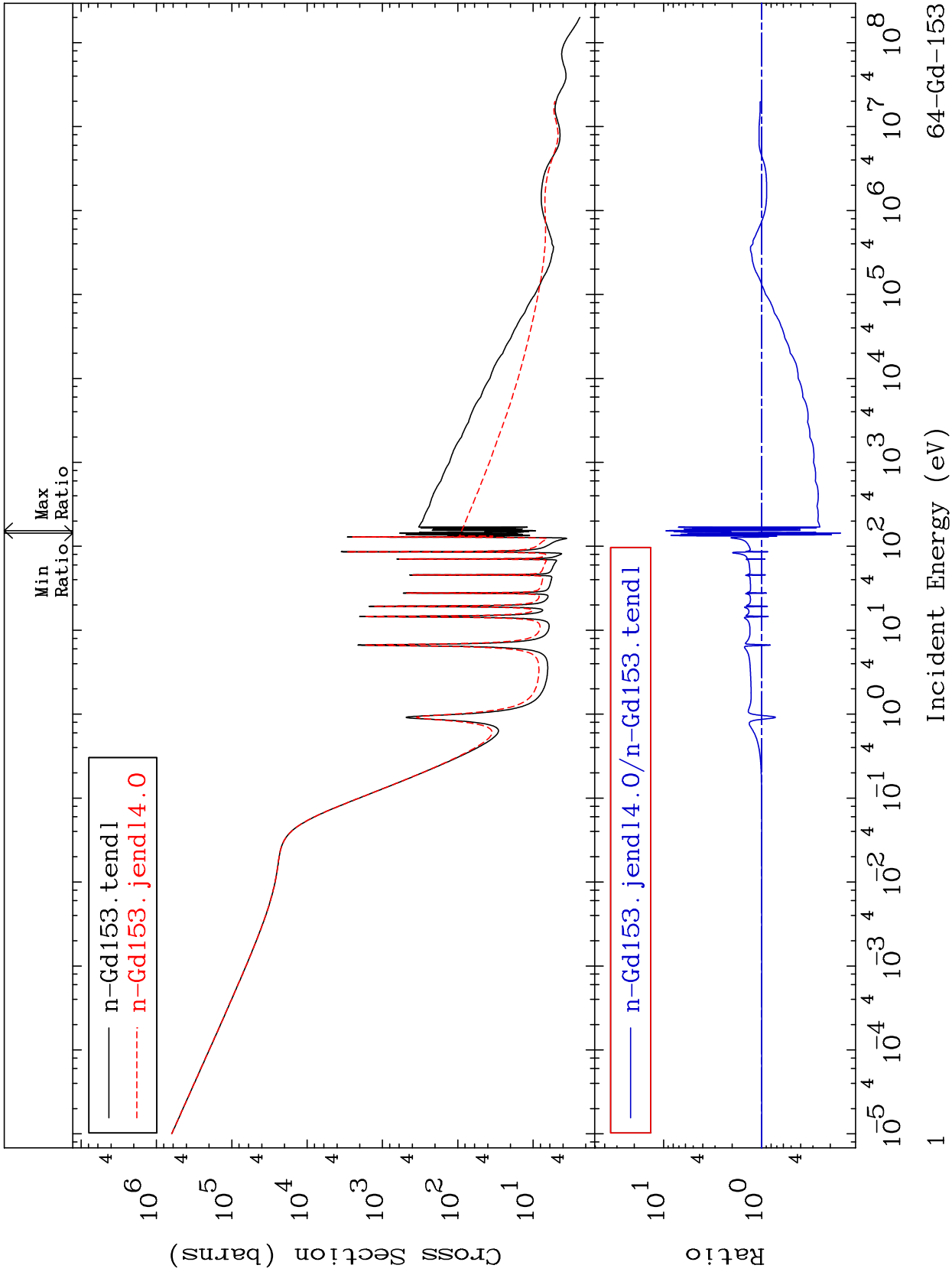


MAT 6428

Total Cross Section
64-Gd-153
-84.38 To 858.8 %



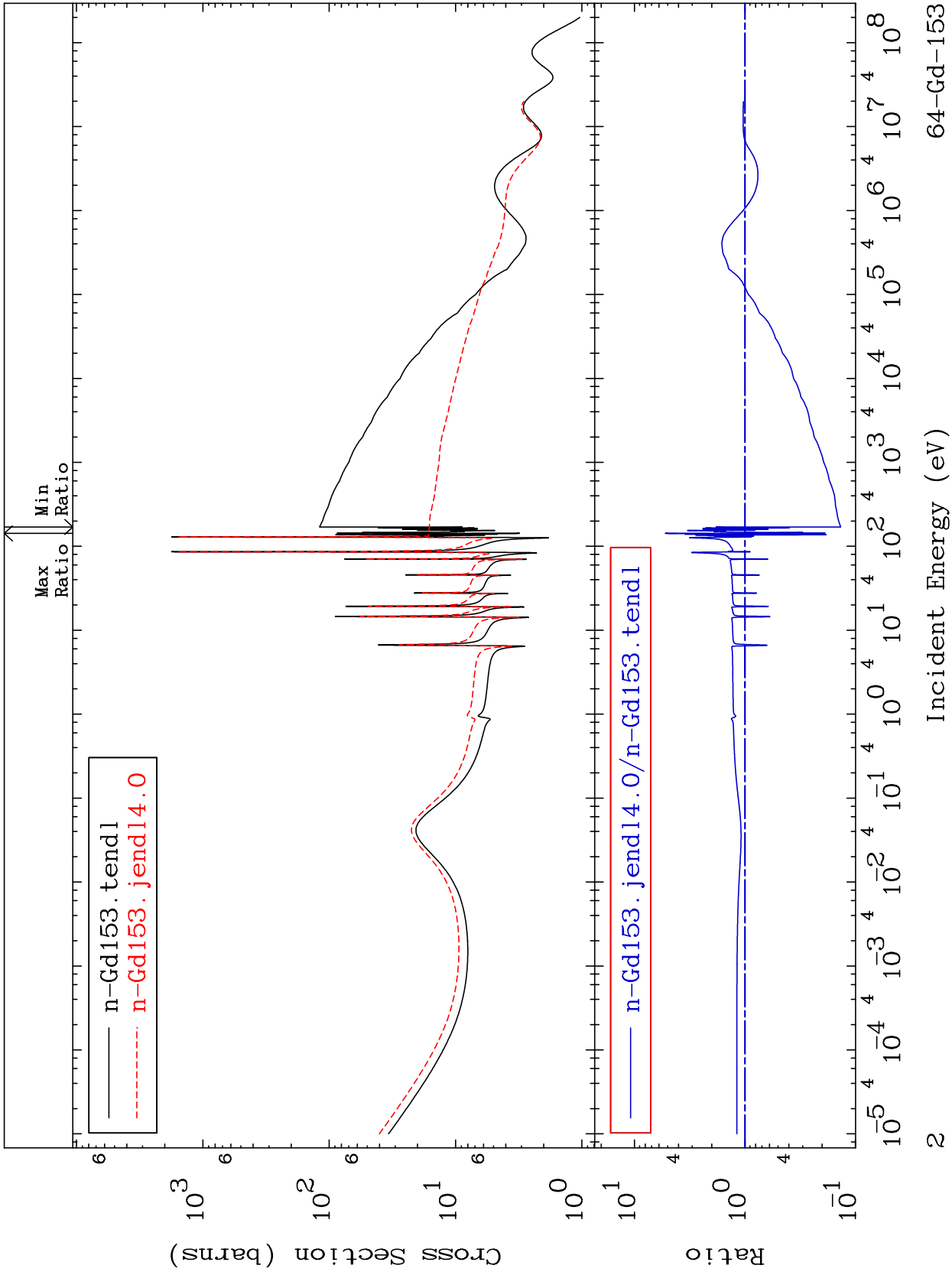
64-Gd-153

Incident Energy (eV)

MAT 6428

Elastic
Cross Section

64-Gd-153
-86.43 To 424.2 %



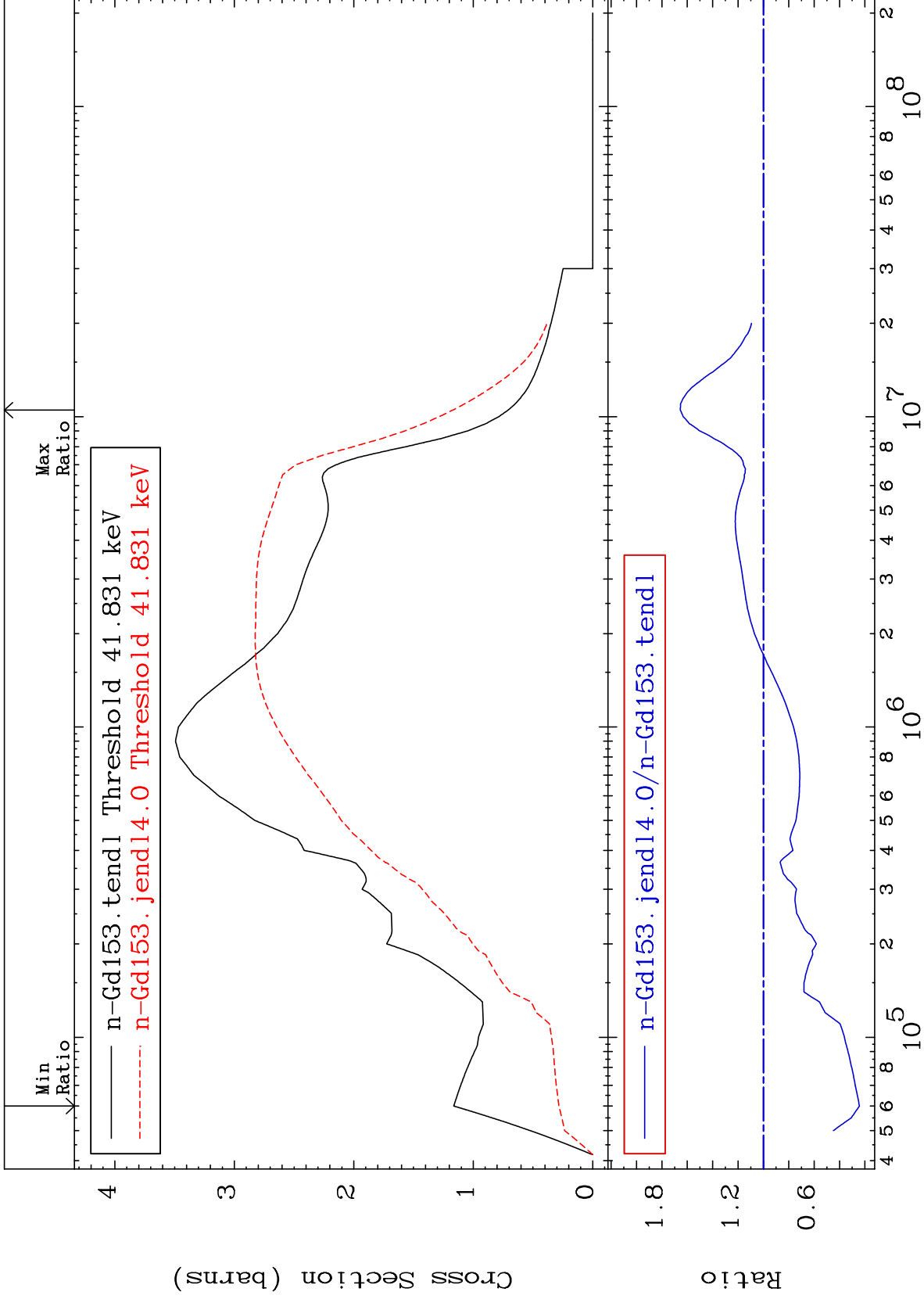
MAT 6428

Inelastic

64-Gd-153

Cross Section

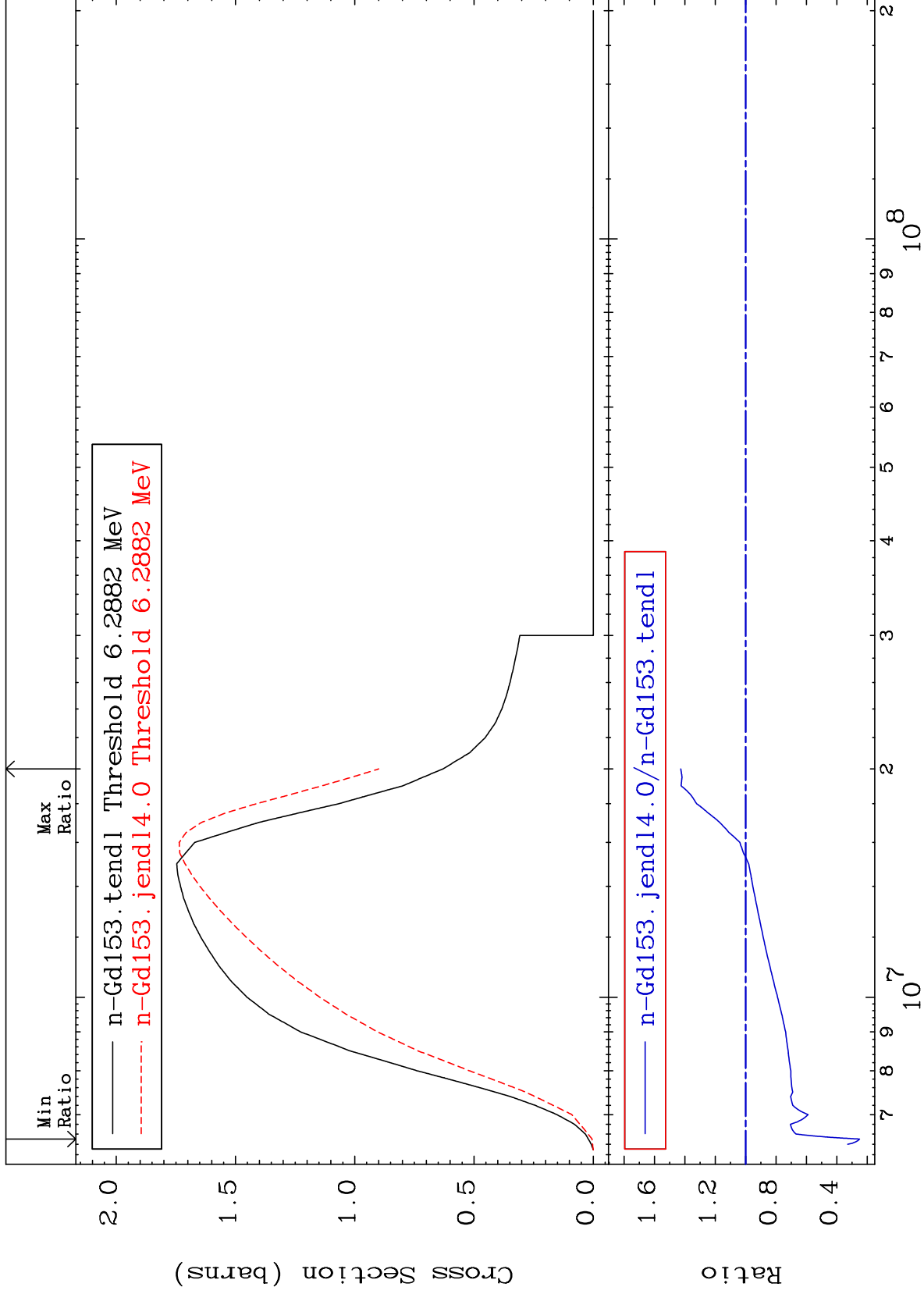
-75.68 To 65.46 %

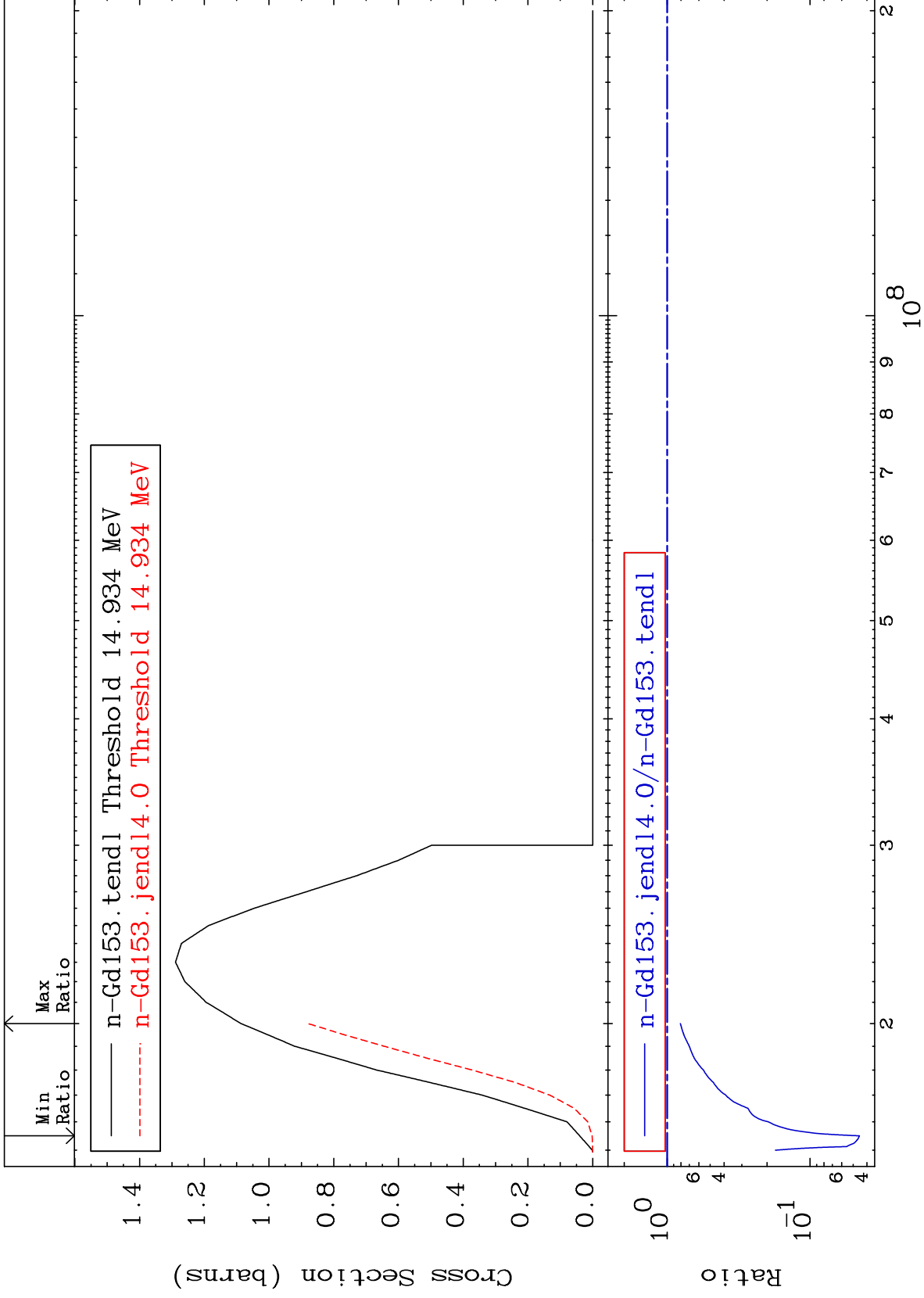


MAT 6428

(n,2n)
Cross Section

64-Gd-153
-74.99 To 42.75 %



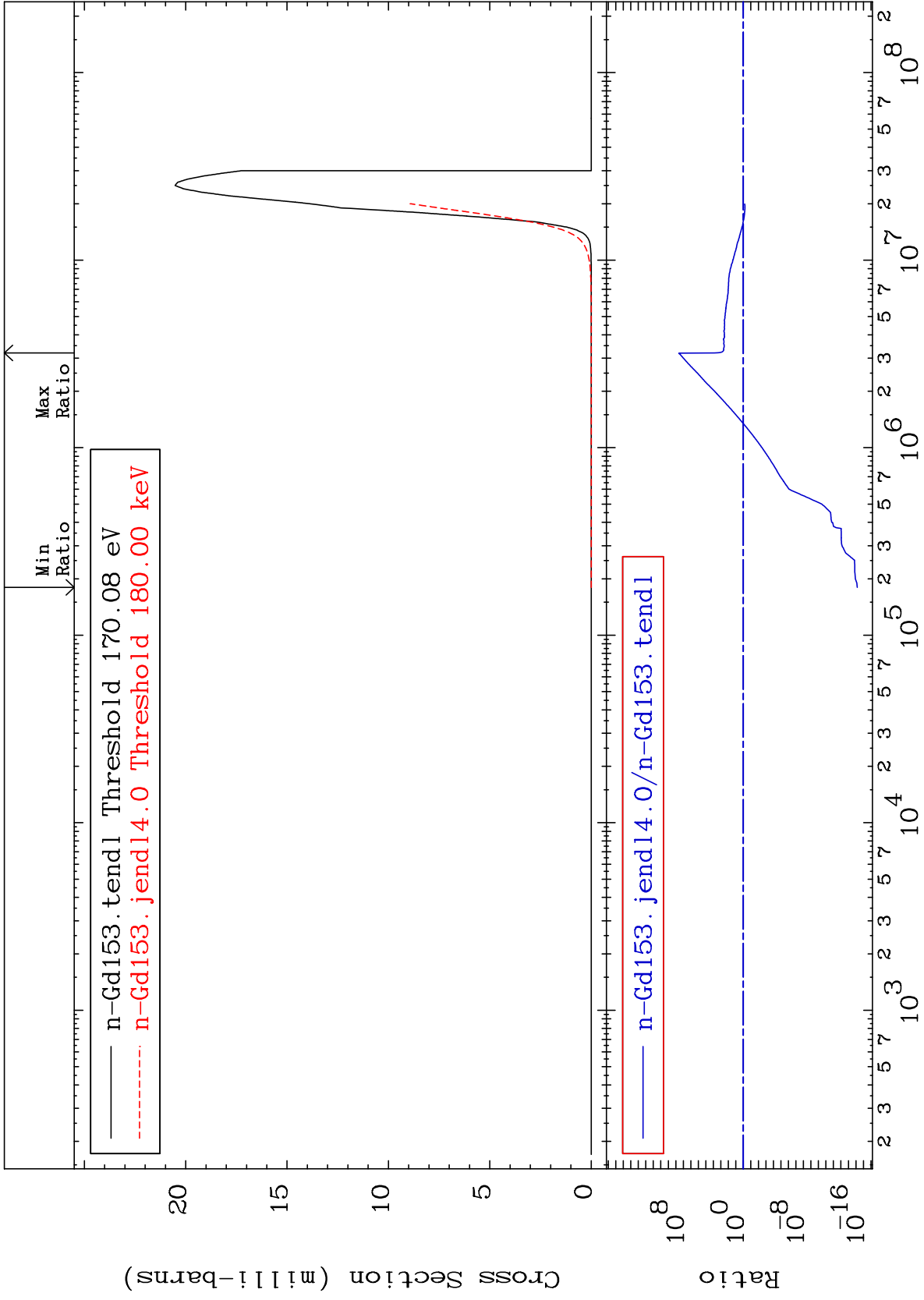


MAT 6428

(n,n') α
Cross Section

64-Gd-153

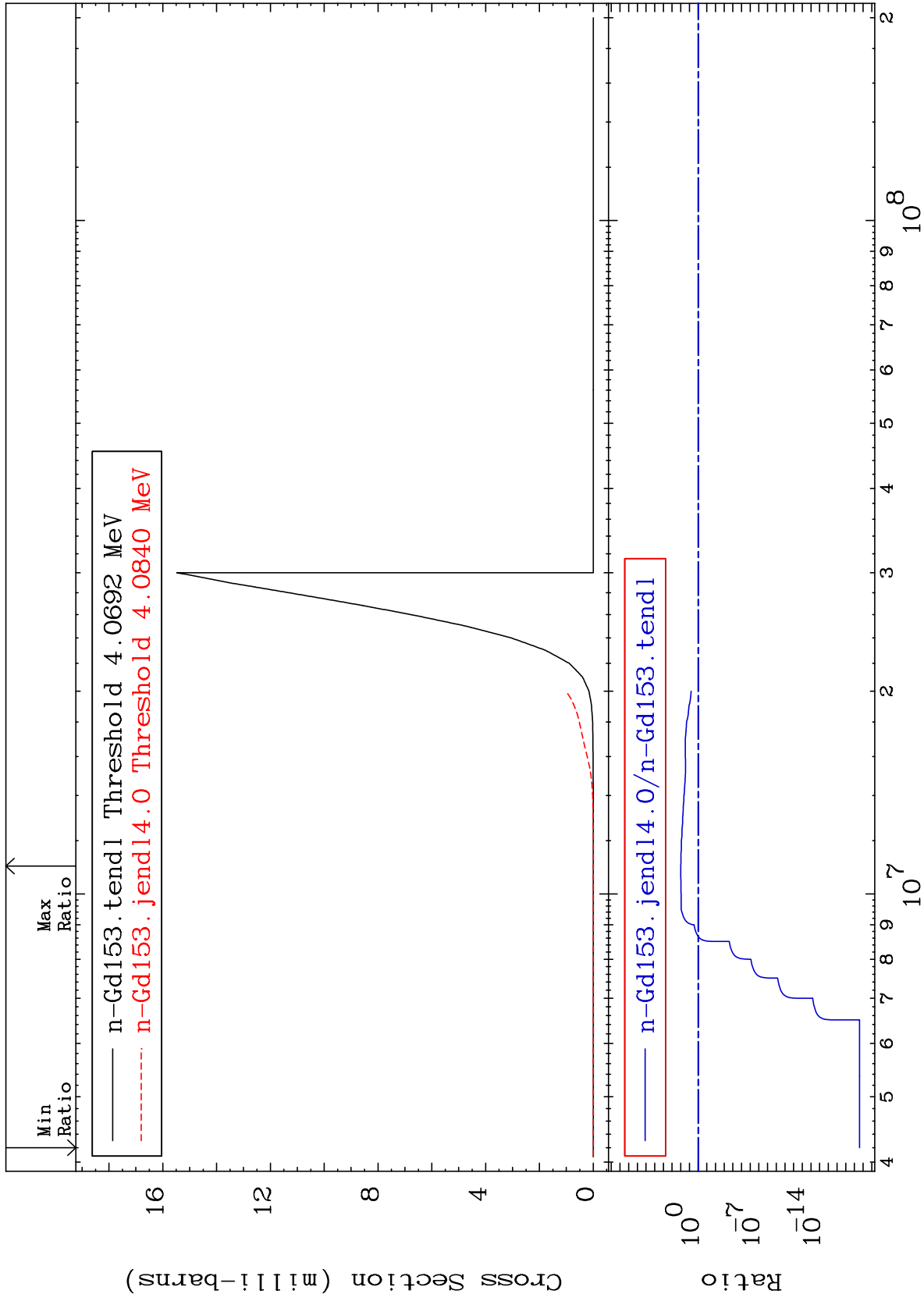
-100.0 To 9999. %



MAT 6428

(n,2n) α
Cross Section

64-Gd-153
-100.0 To 9831. %



7

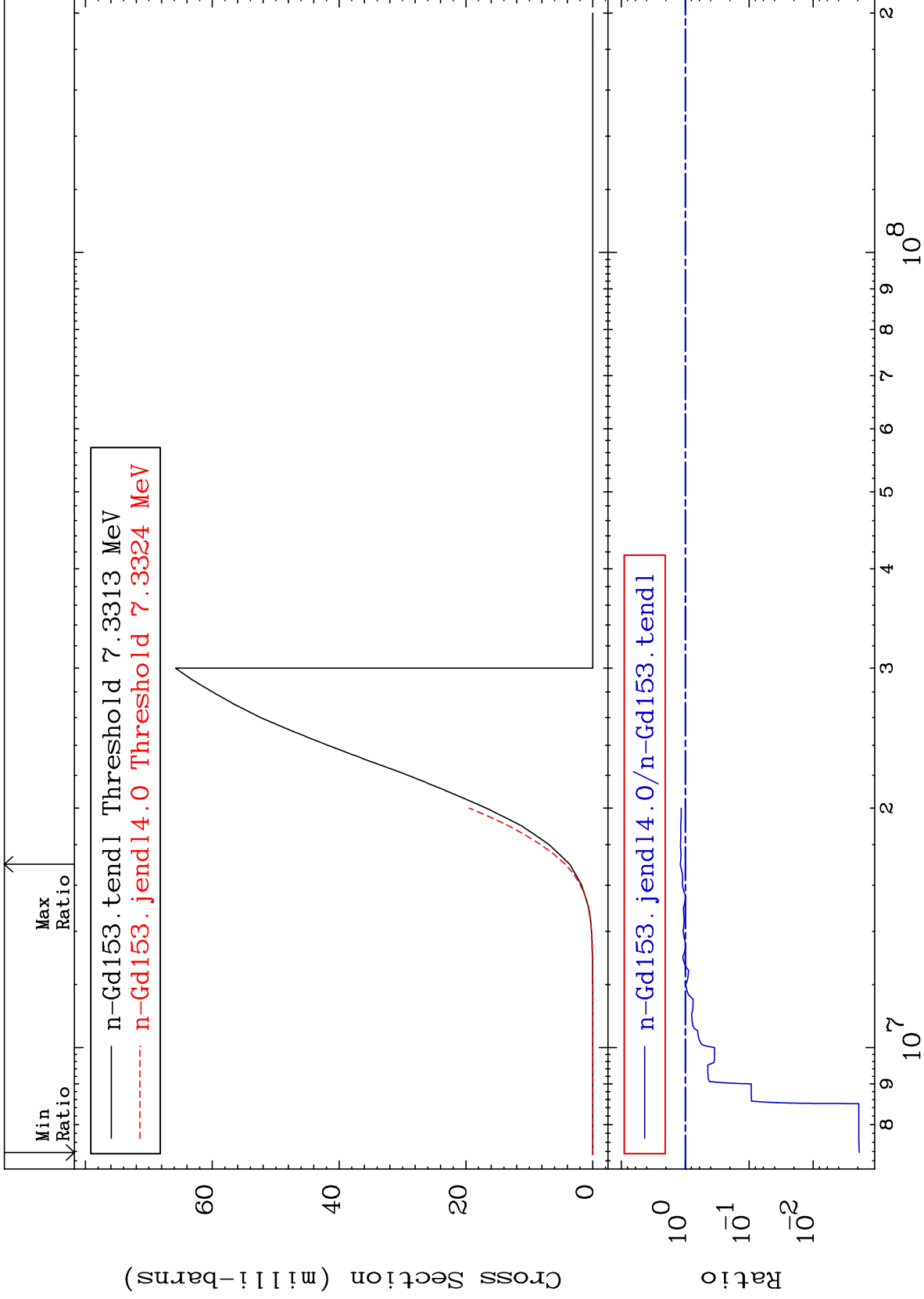
Incident Energy (eV)

64-Gd-153

MAT 6428

(n,n') p
Cross Section

64-Gd-153
-99.81 To 19.27 %



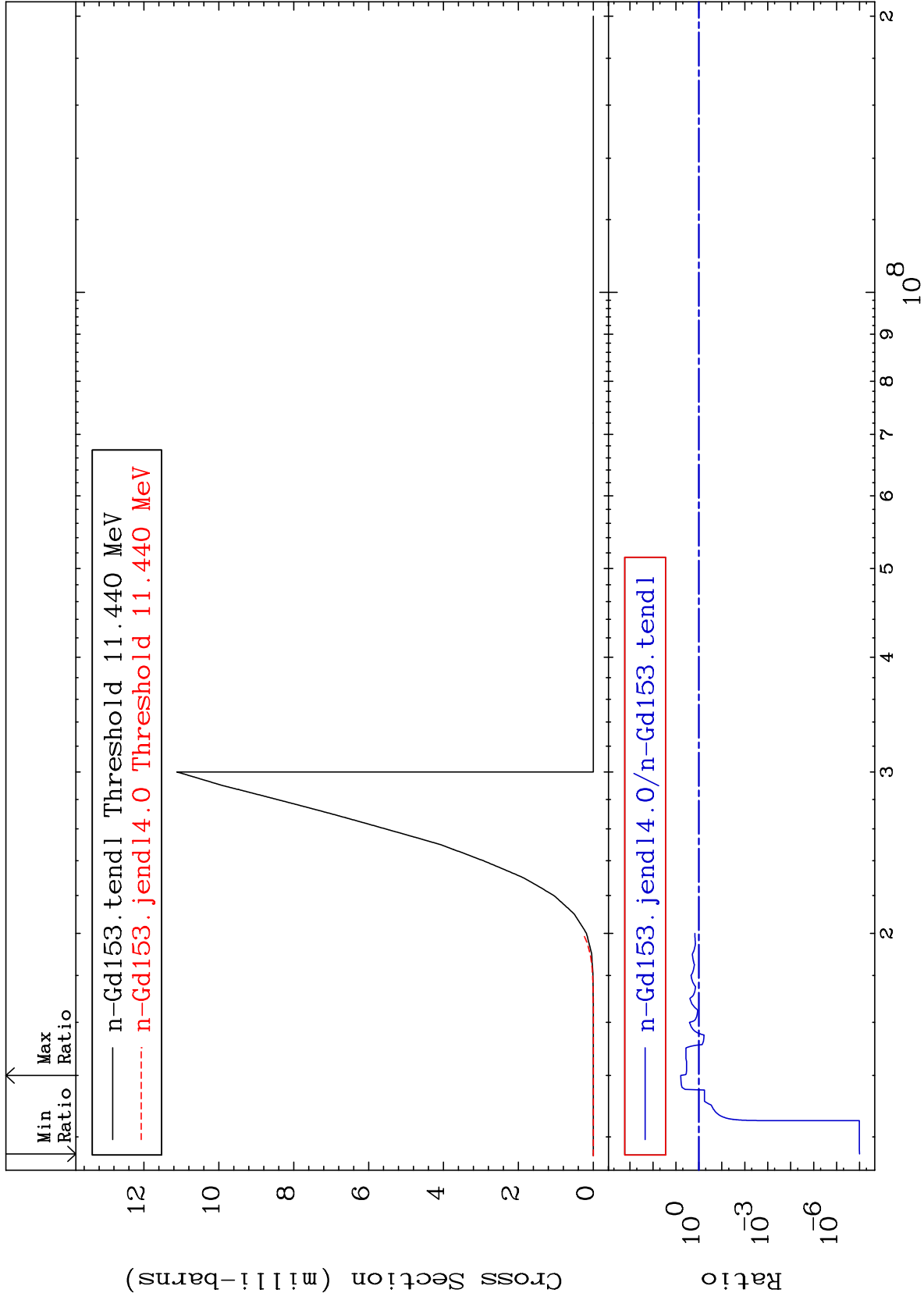
8

Incident Energy (eV)

64-Gd-153

Cross Section

-100.0 To 514.2 %



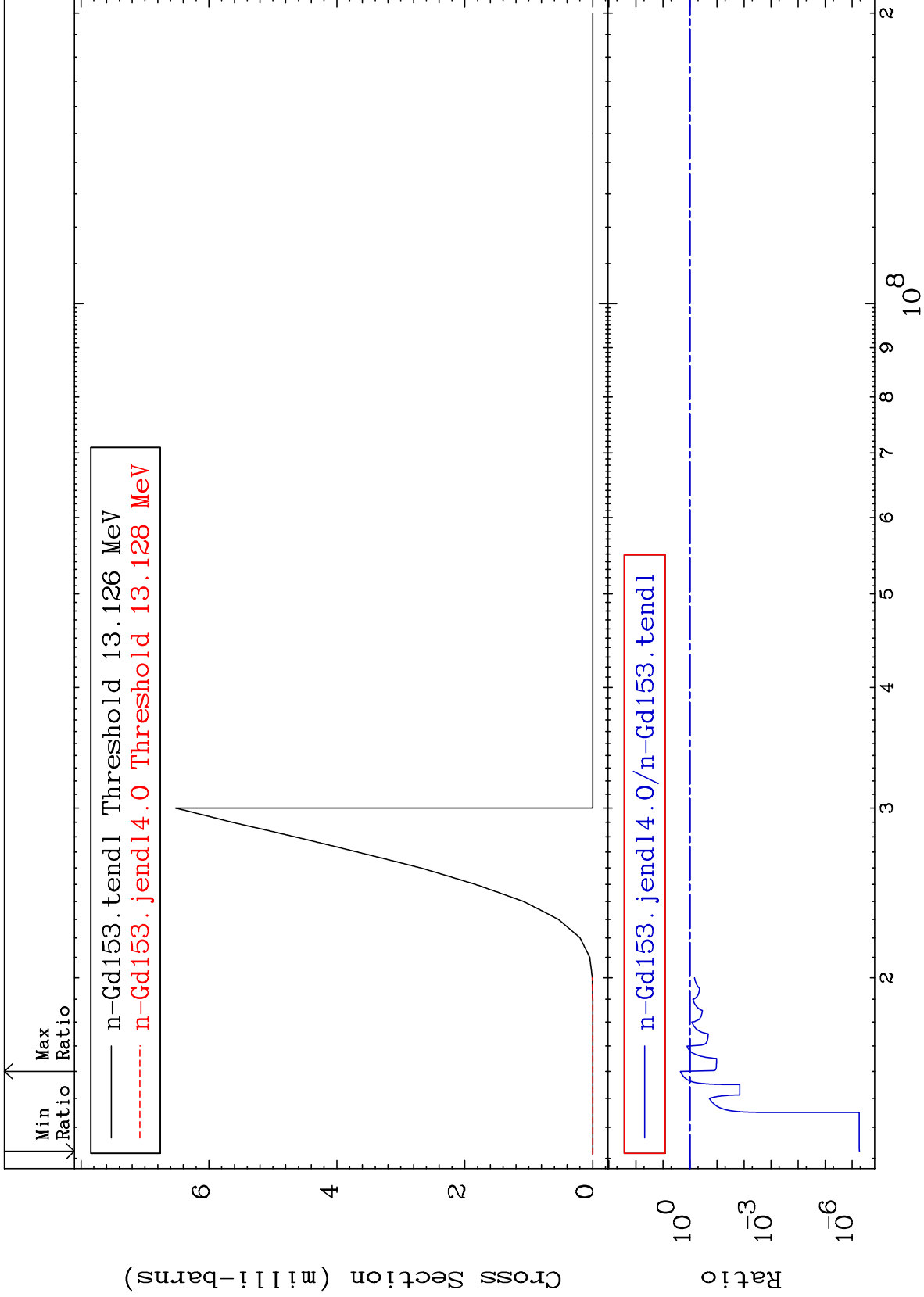
MAT 6428

(n,n') t

64-Gd-153

Cross Section

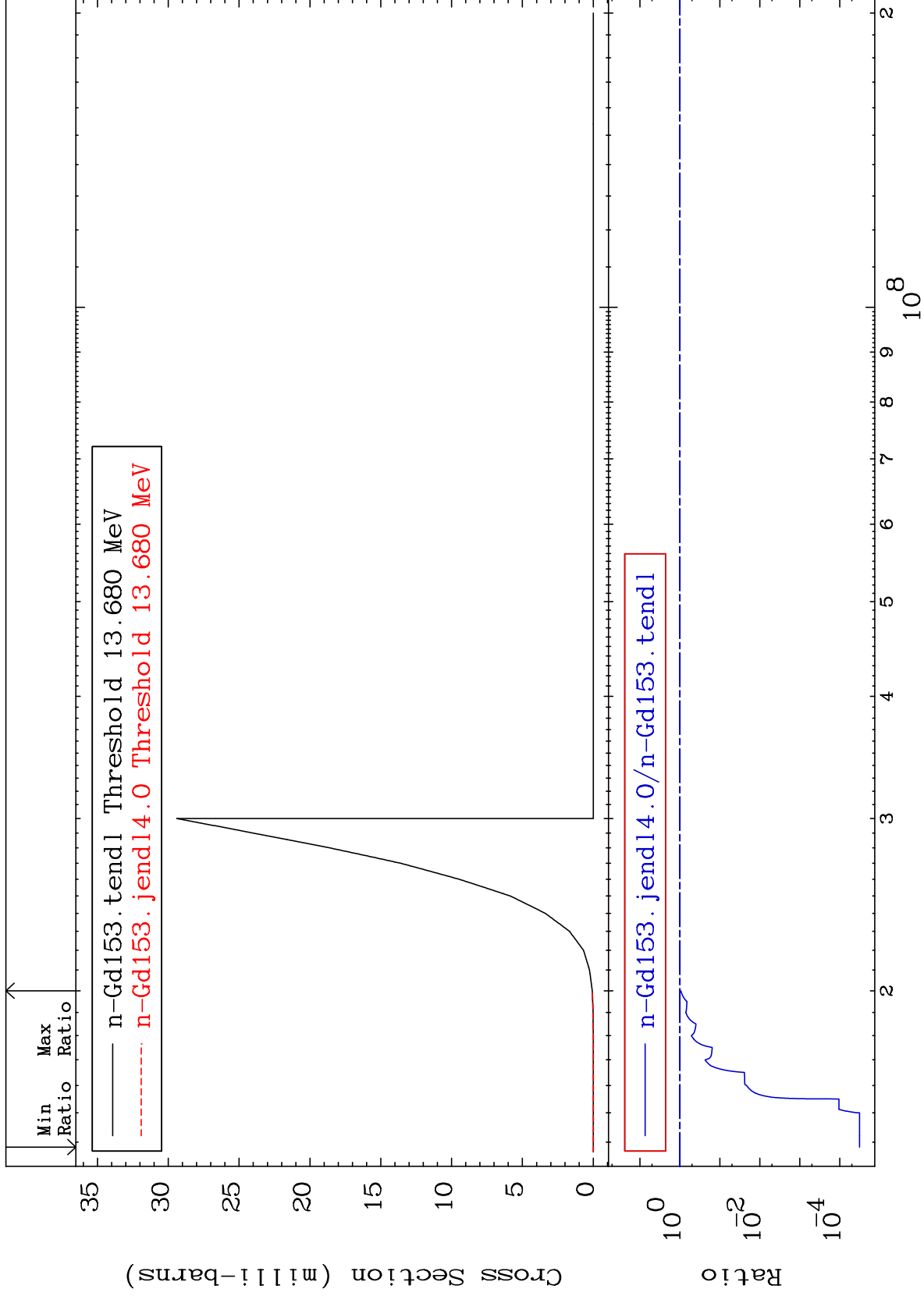
-100.0 To 127.0 %



10

64-Gd-153

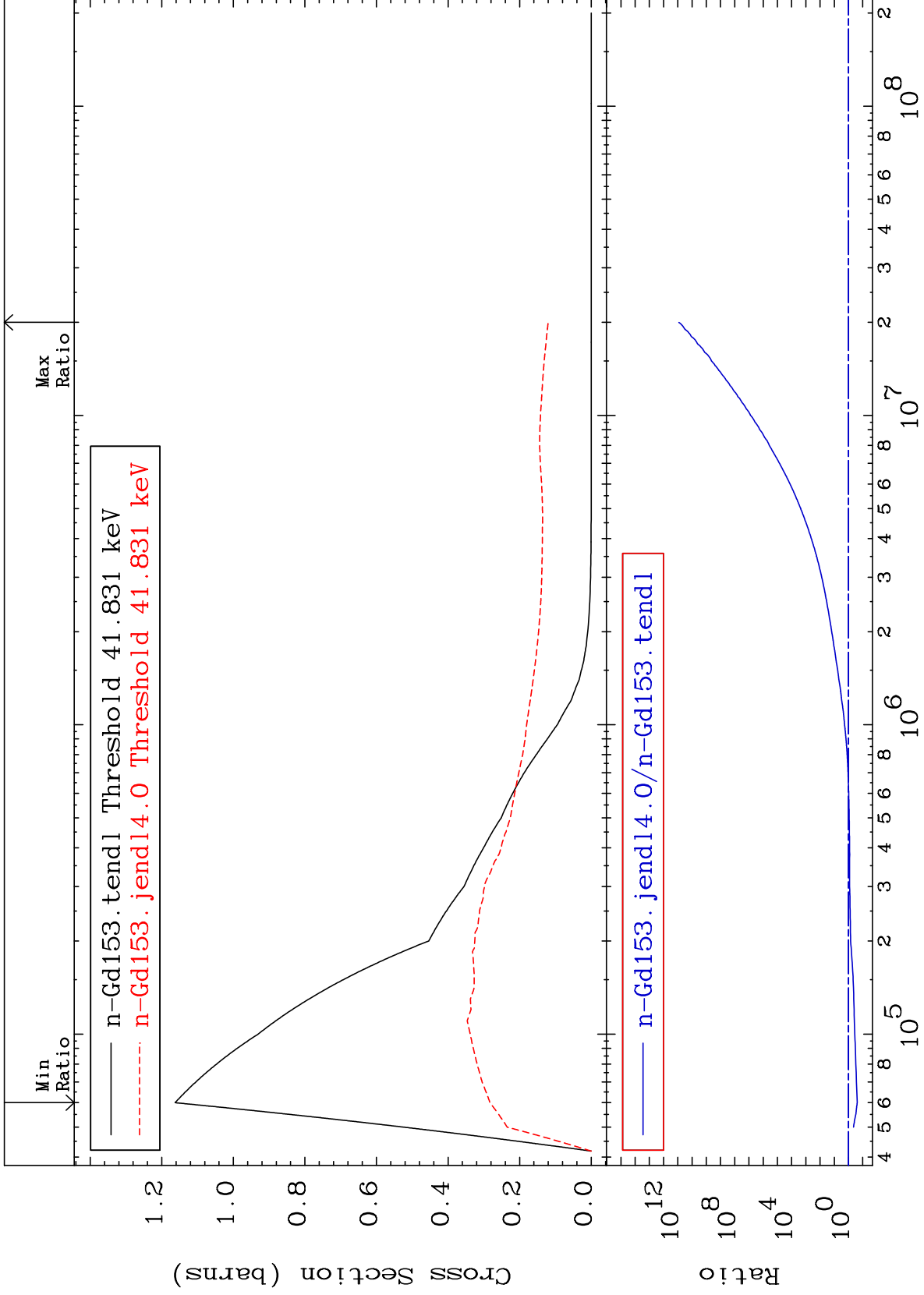
64-Gd-153



MAT 6428

MT= 51 (n,n') Level
Cross Section

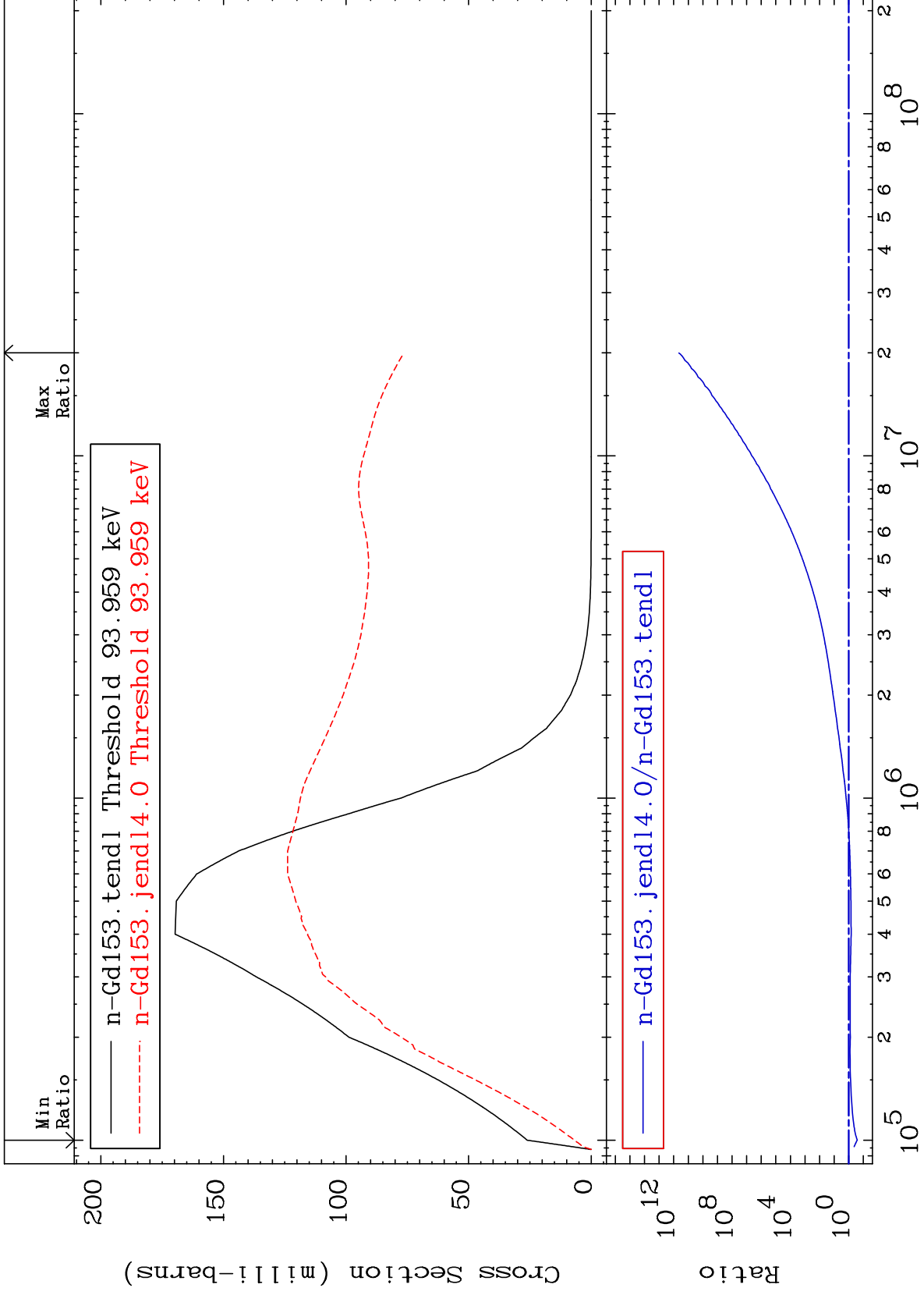
64-Gd-153
-75.68 To 9999. %



MAT 6428

MT= 52 (n,n') Level
Cross Section

64-Gd-153
-73.78 To 9999. %



13

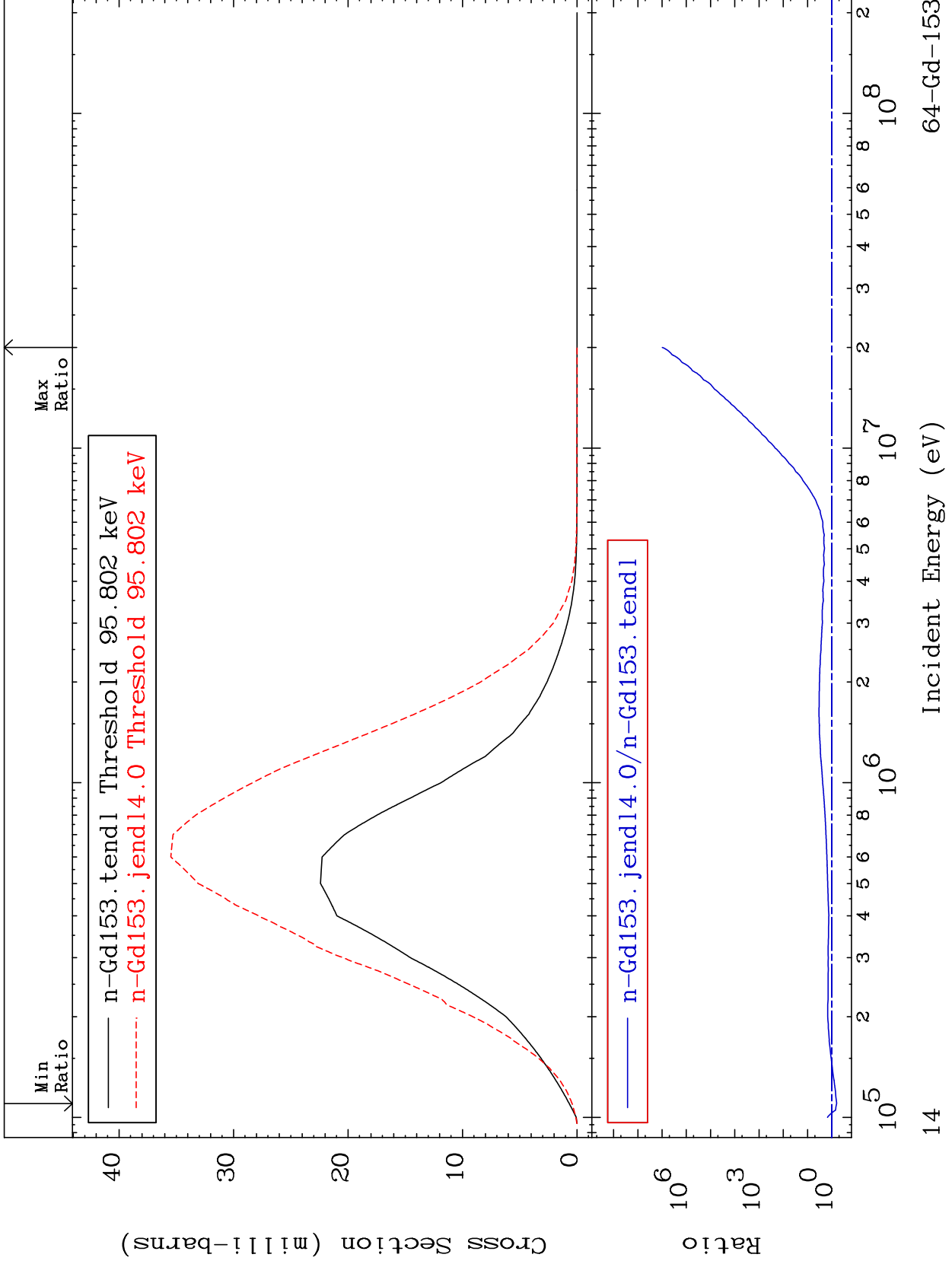
Incident Energy (eV)

64-Gd-153

MAT 6428

MT= 53 (n,n') Level
Cross Section

64-Gd-153
-36.86 To 9999. %



14

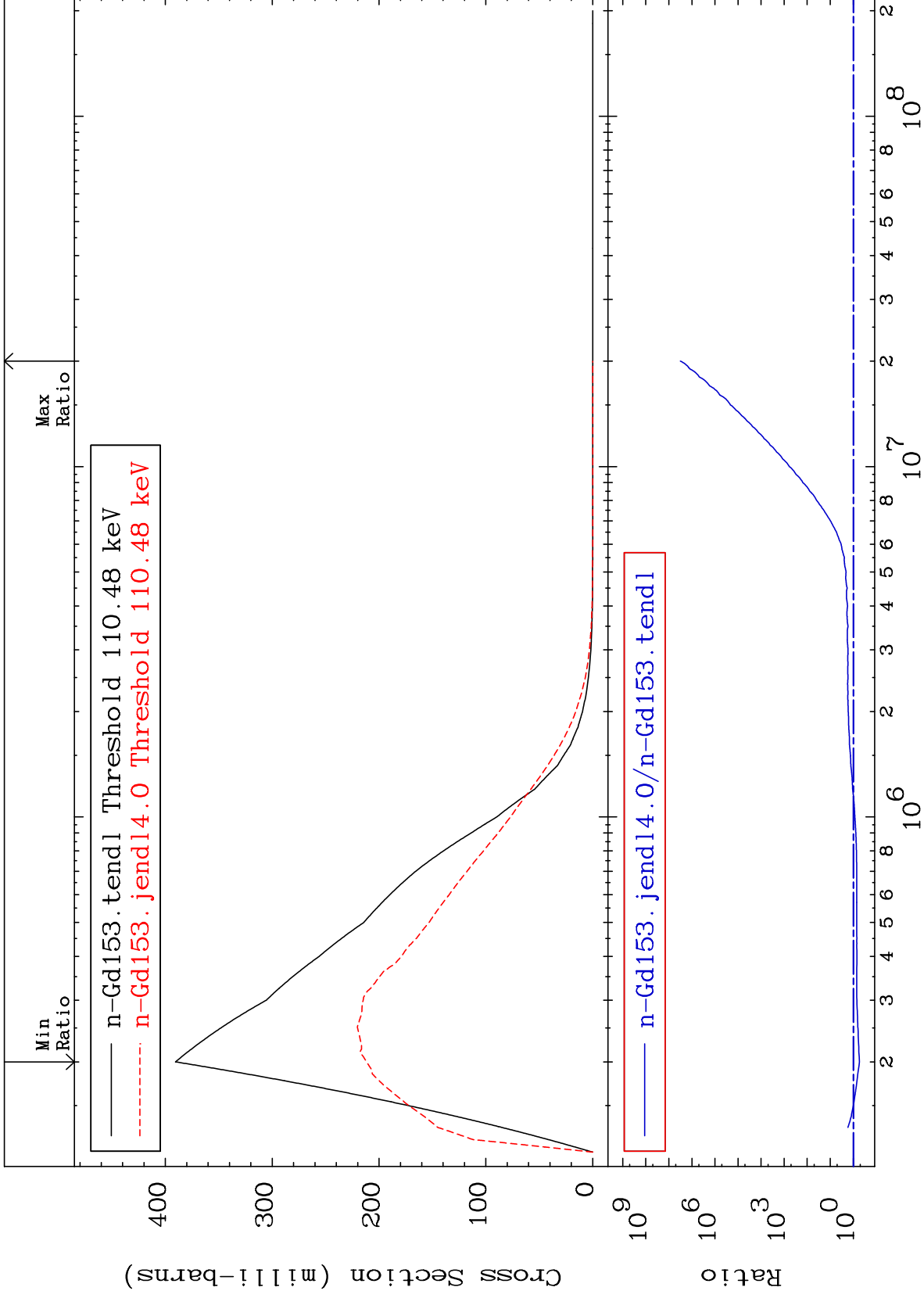
Incident Energy (eV)

64-Gd-153

MAT 6428

MT= 54 (n,n') Level
Cross Section

64-Gd-153
-45.80 To 9999. %



15

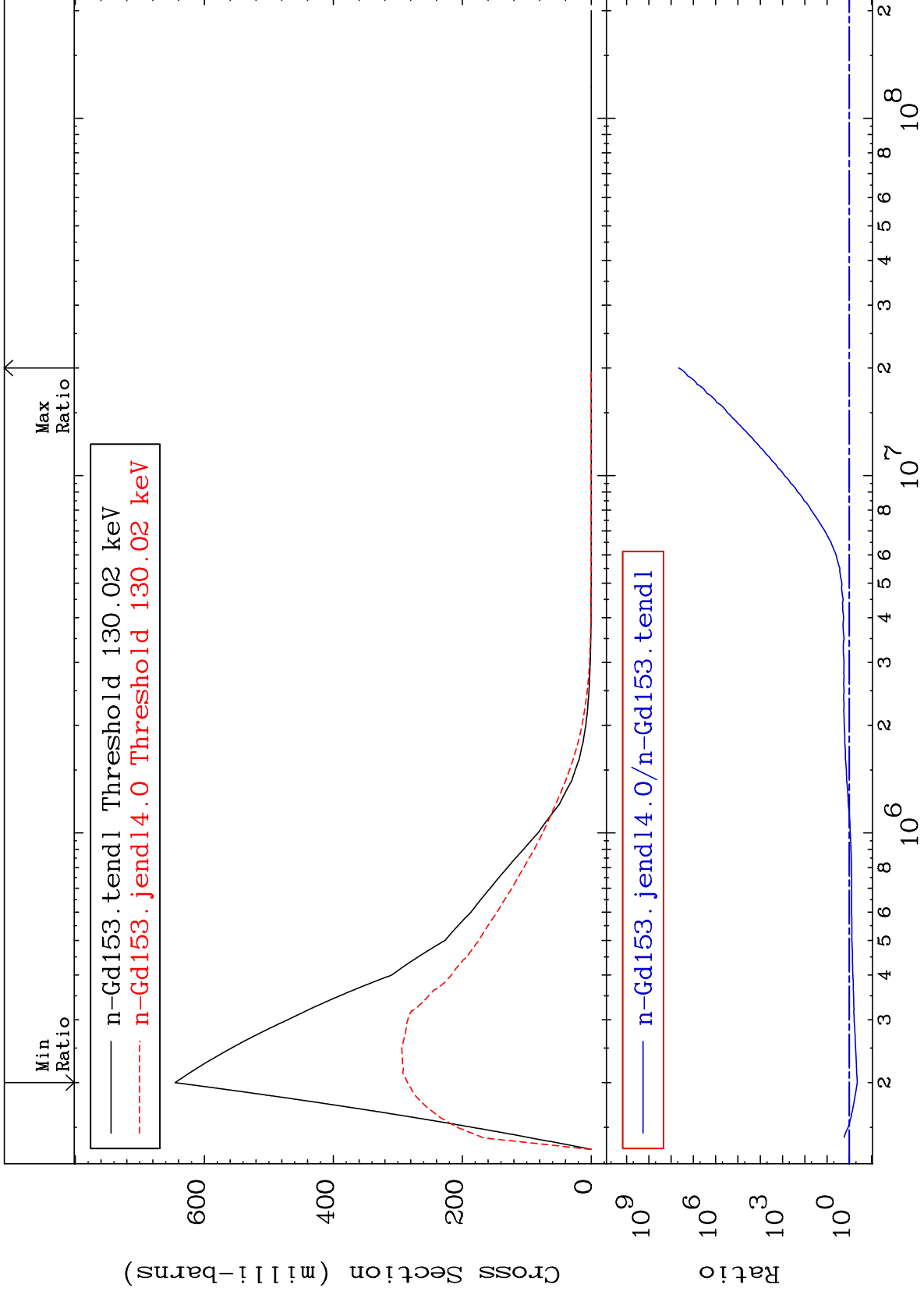
Incident Energy (eV)

64-Gd-153

MAT 6428

MT= 55 (n,n') Level
Cross Section

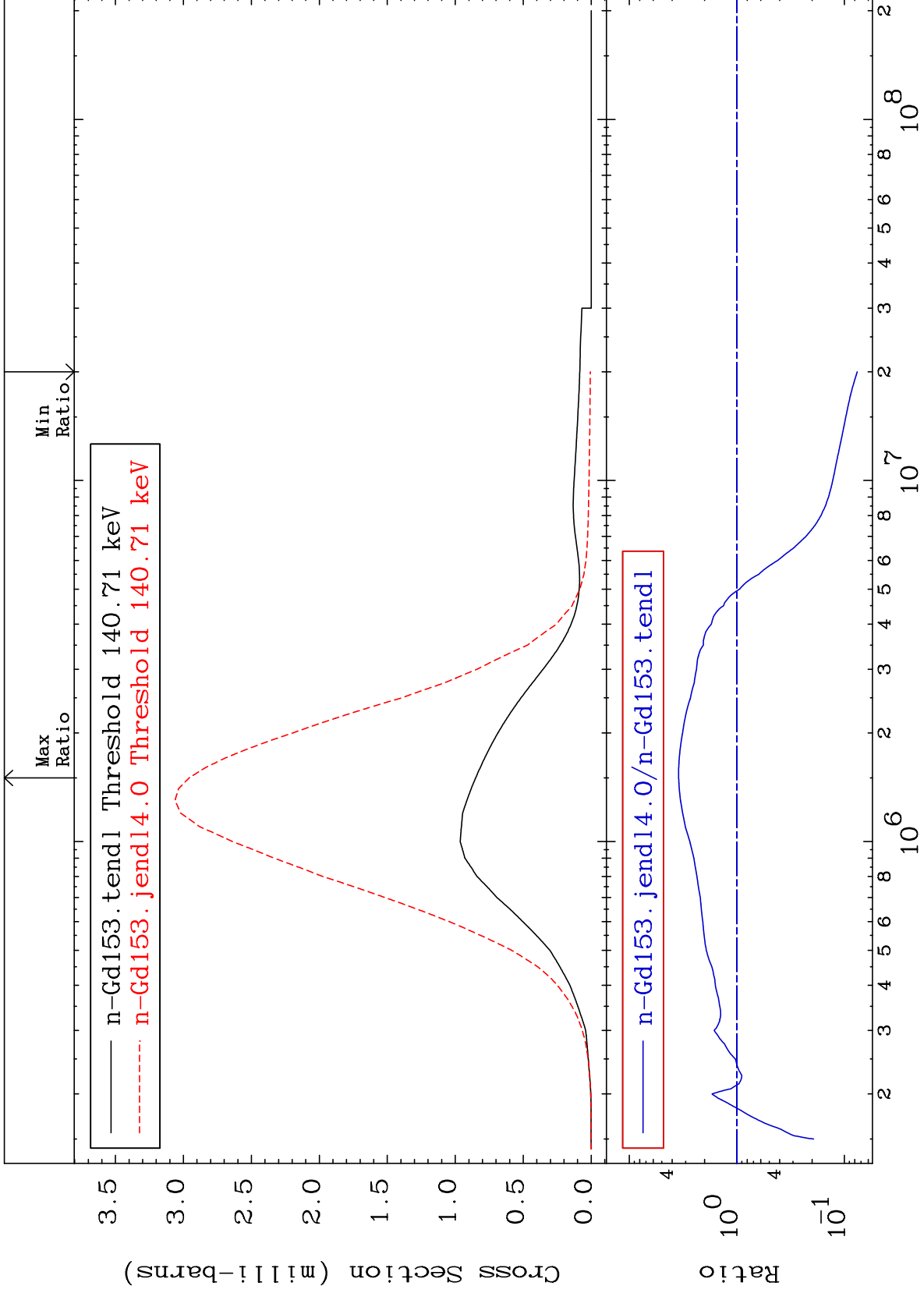
64-Gd-153
-55.87 To 9999. %



MAT 6428

MT= 56 (n,n') Level
Cross Section

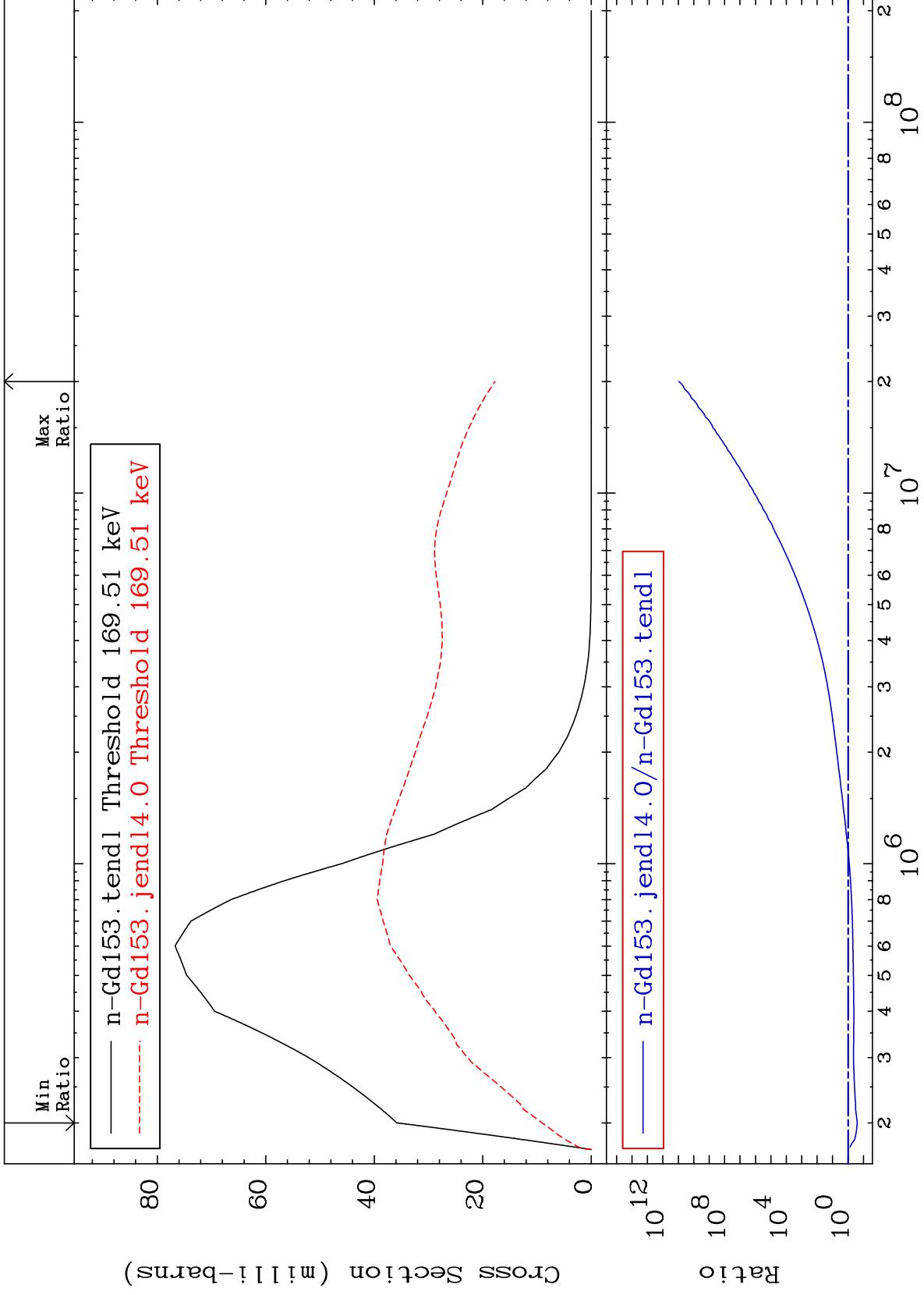
64-Gd-153
-92.41 To 248.0 %



MAT 6428

MT= 57 (n,n') Level
Cross Section

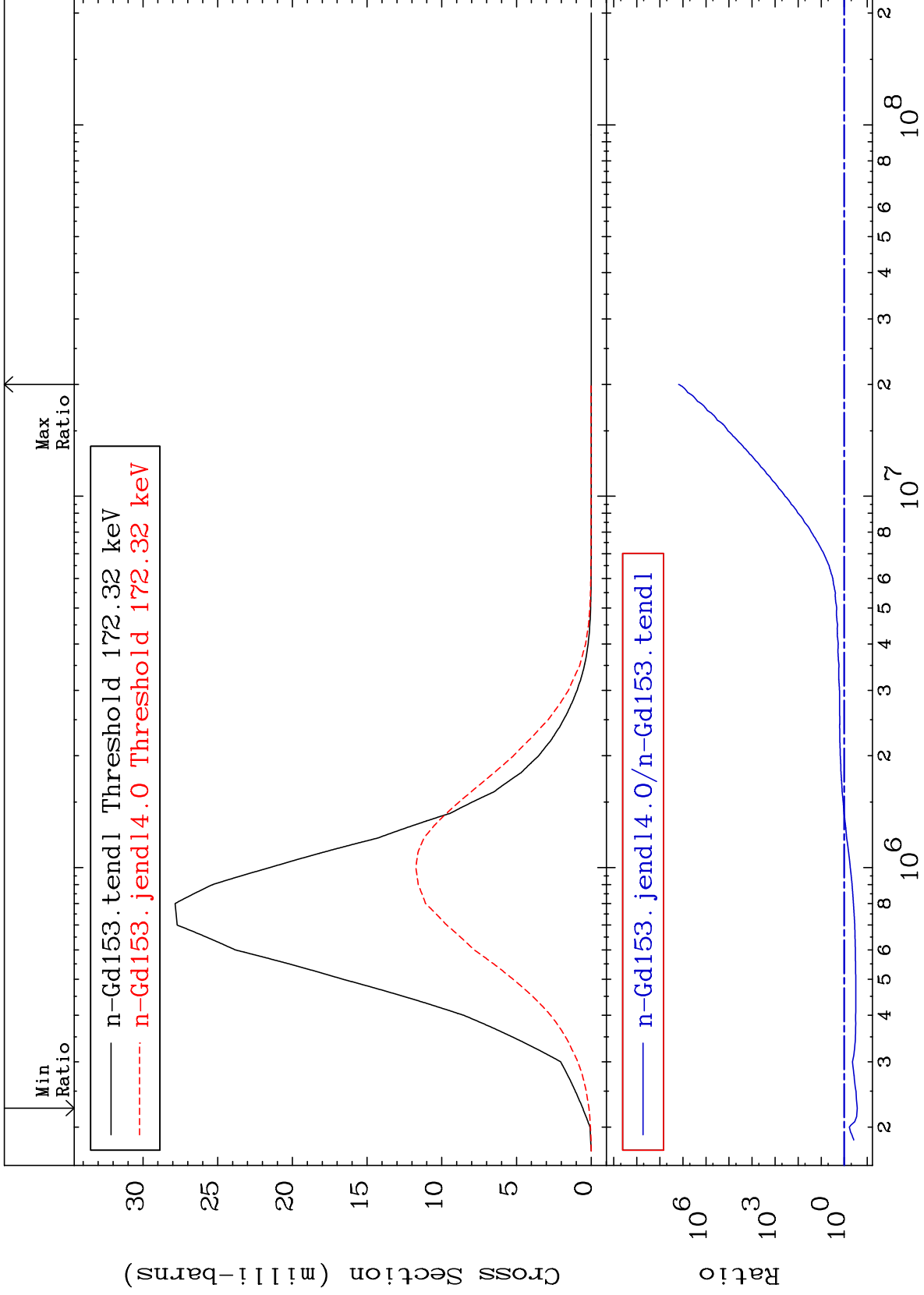
64-Gd-153
-74.75 To 9999. %



MAT 6428

MT= 58 (n,n') Level
Cross Section

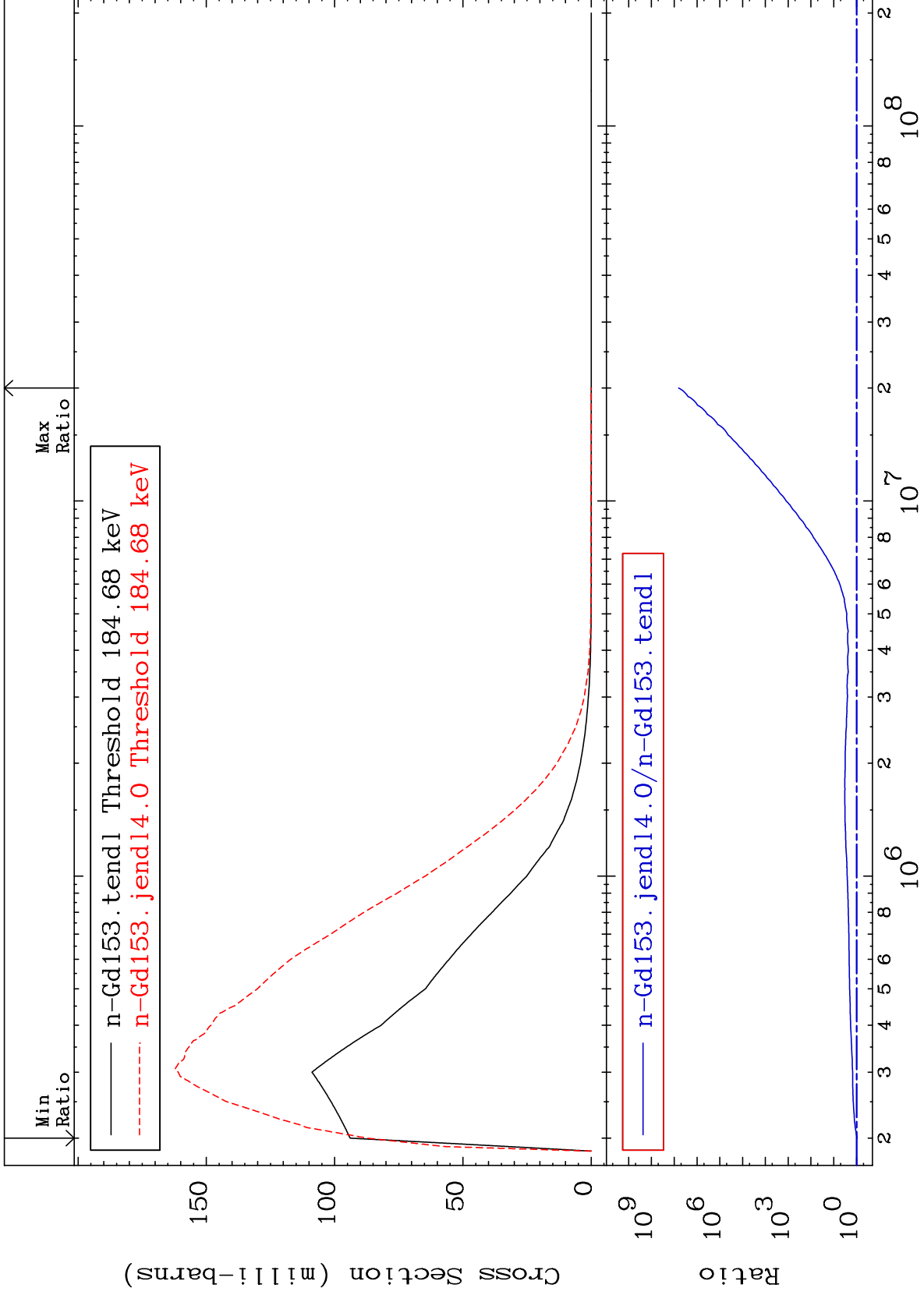
64-Gd-153
-72.82 To 9999. %



MAT 6428

MT= 59 (n,n') Level
Cross Section

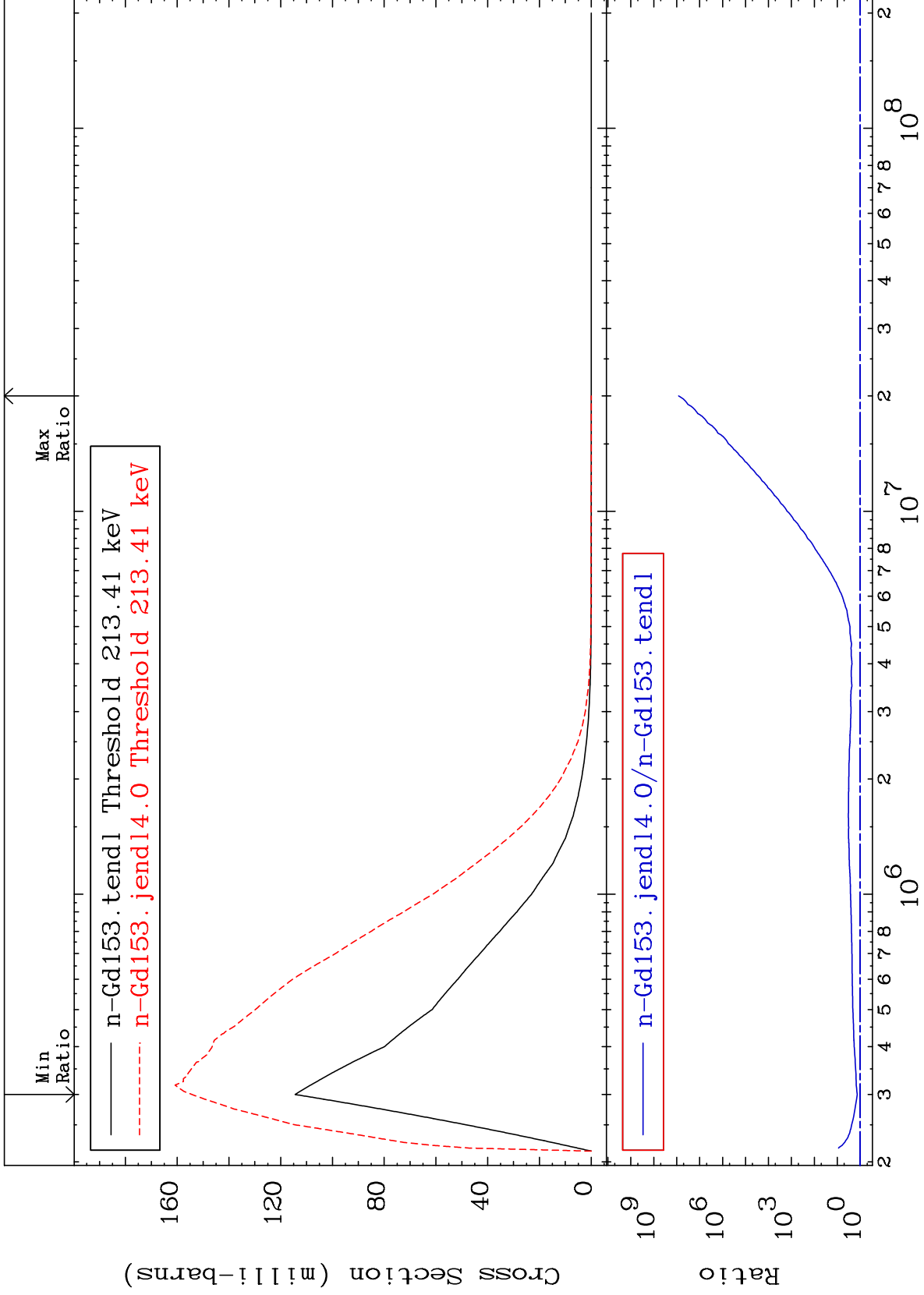
64-Gd-153
-7.094 To 9999. %

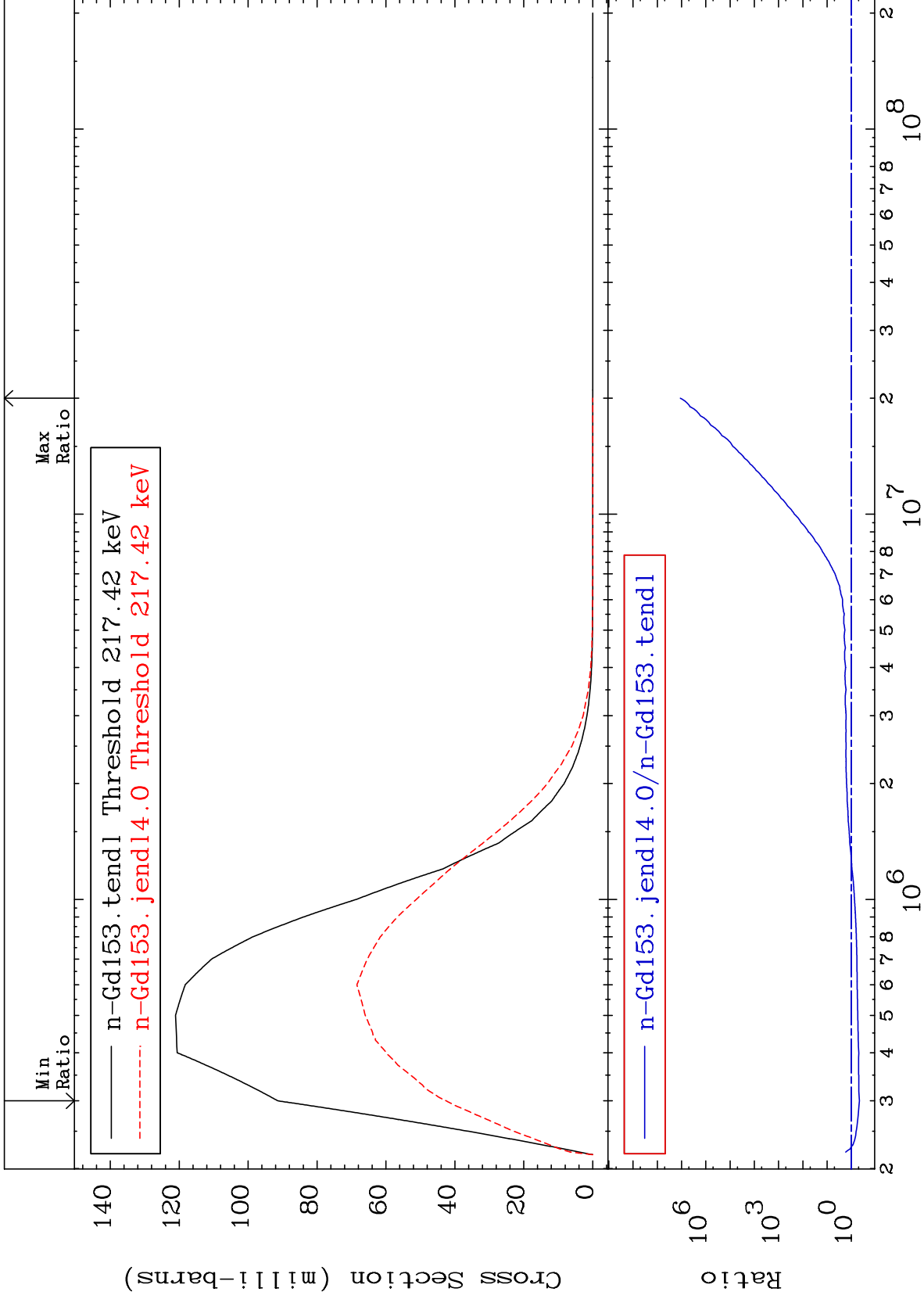


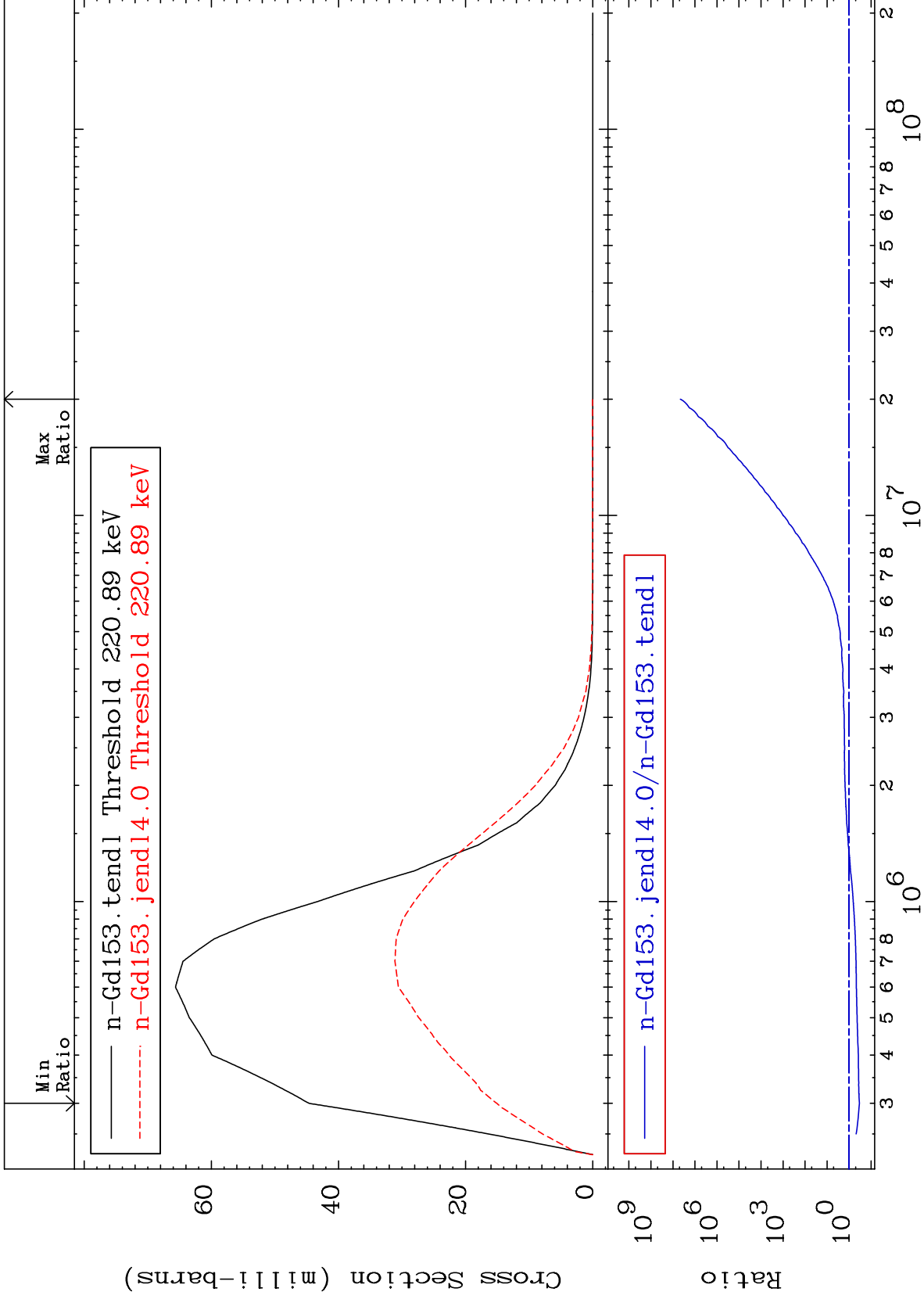
MAT 6428

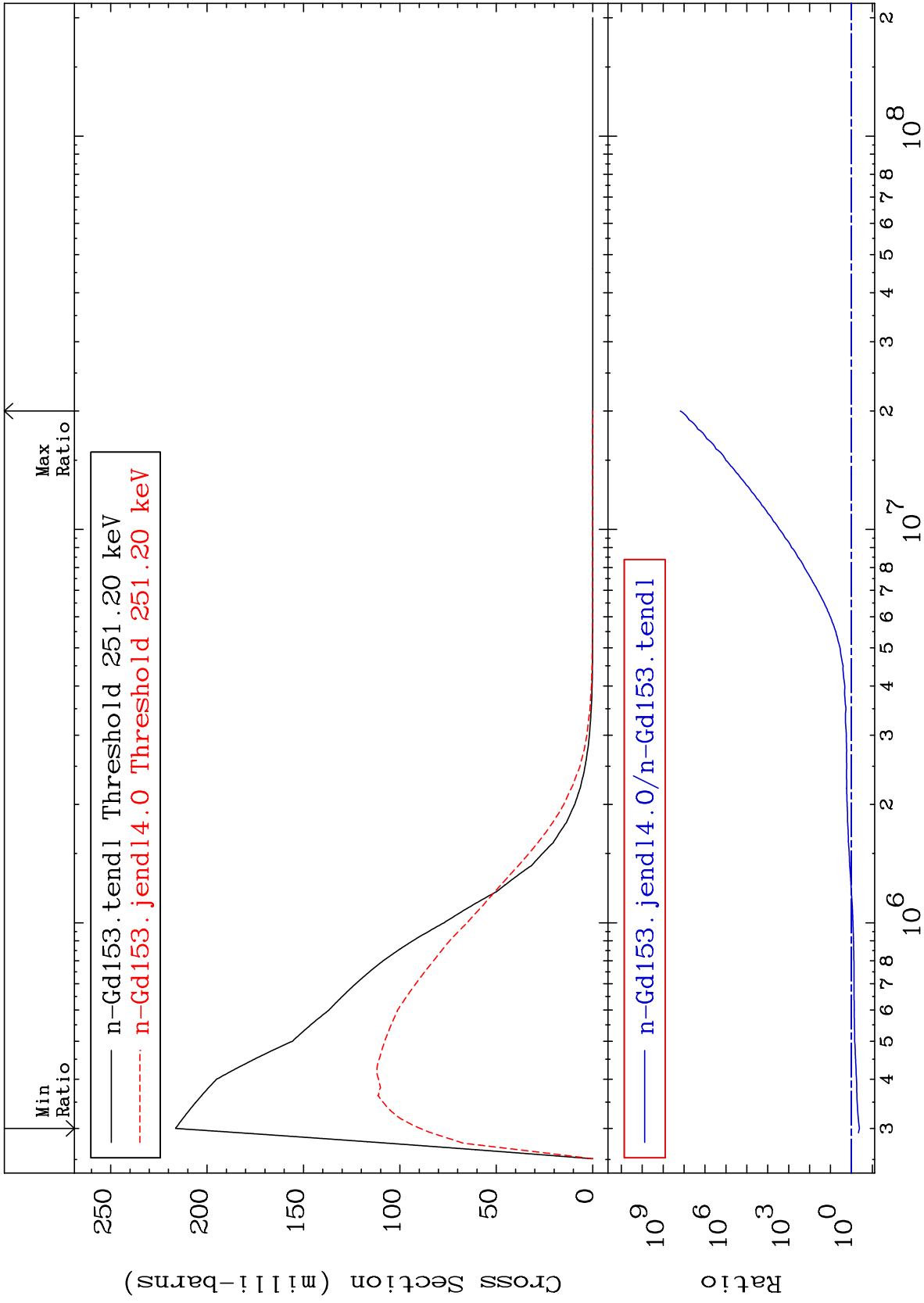
MT= 60 (n,n') Level
Cross Section

64-Gd-153
34.88 To 9999. %





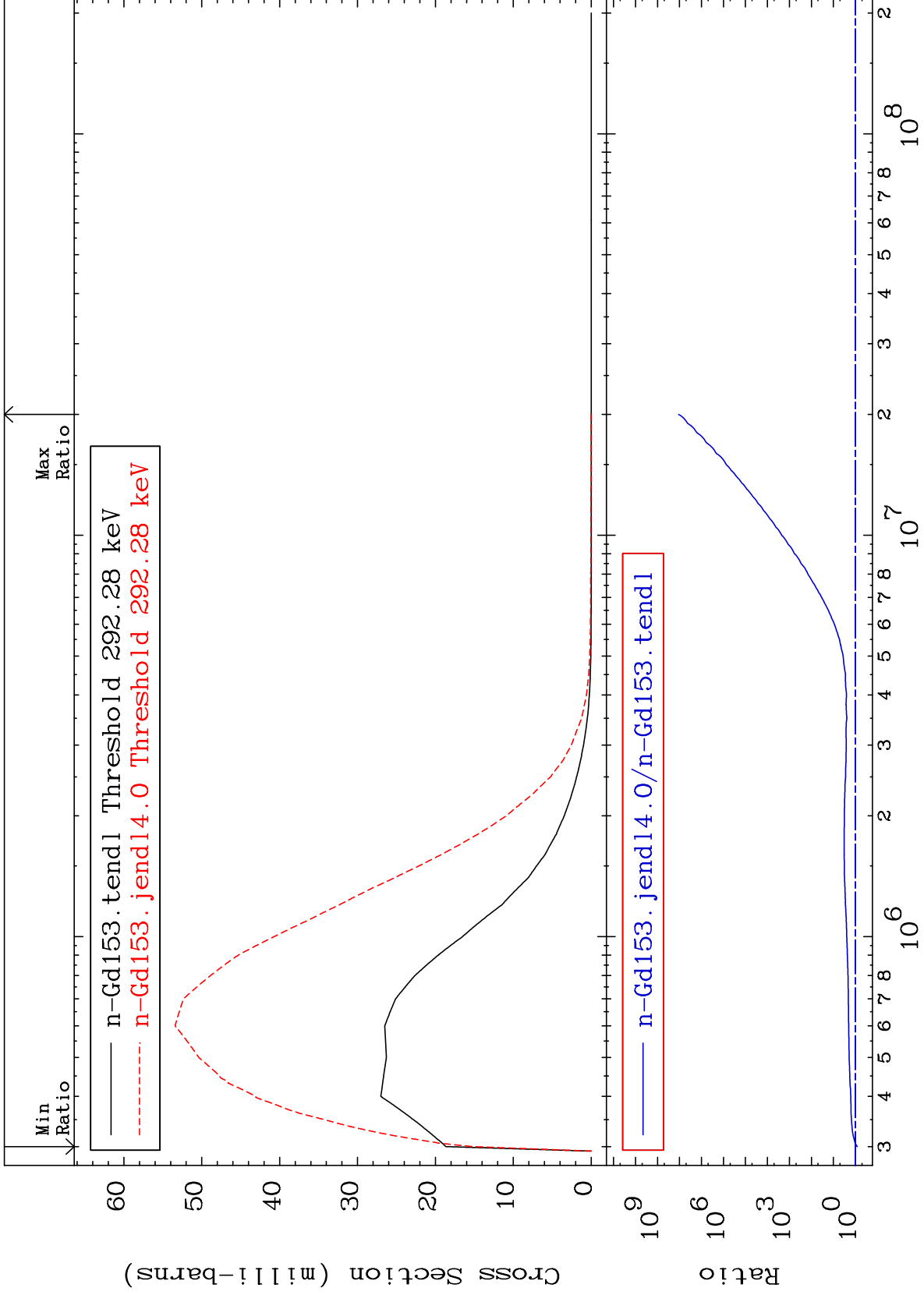


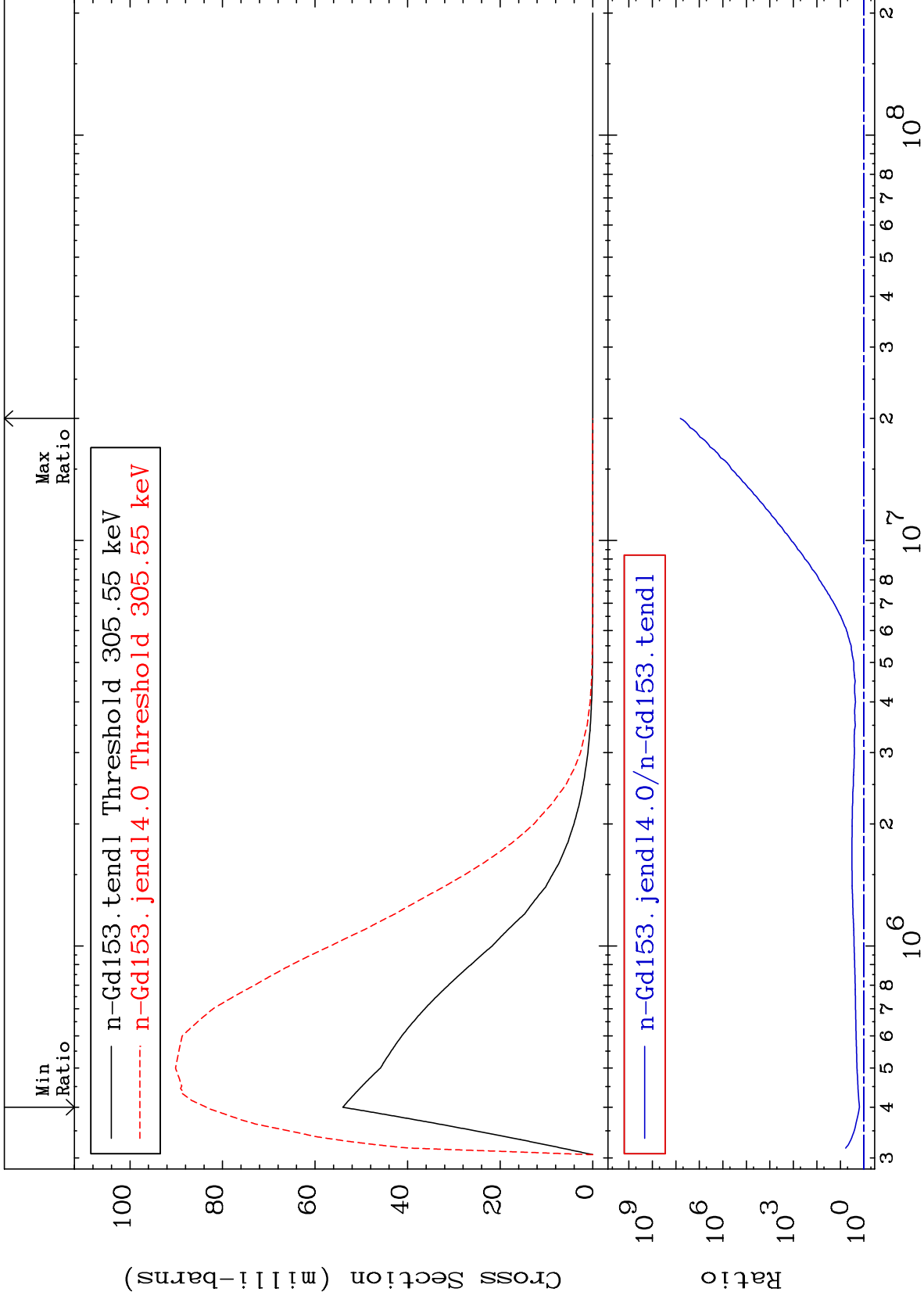


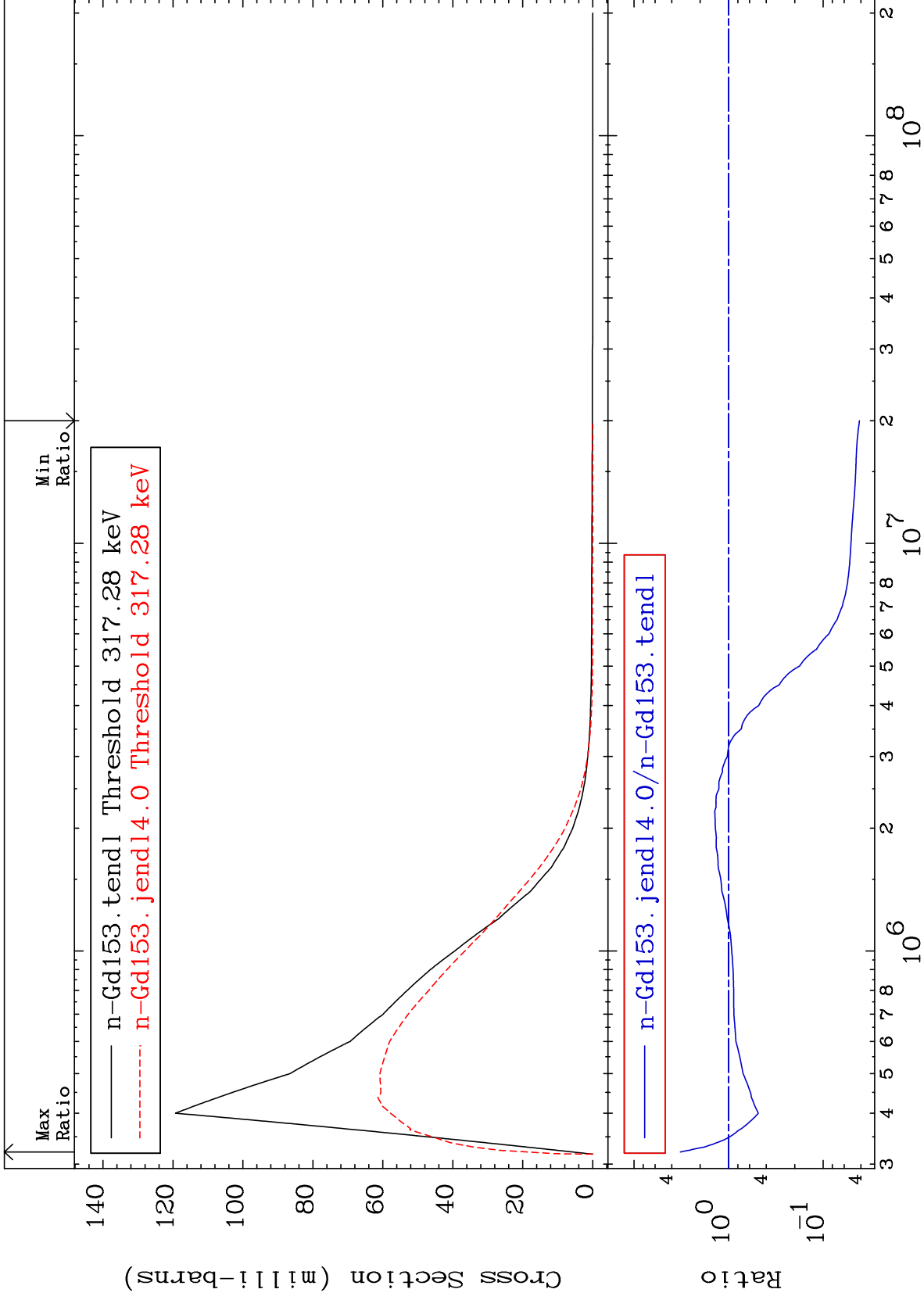
MAT 6428

MT= 64 (n,n') Level
Cross Section

64-Gd-153
-18.09 To 9999. %



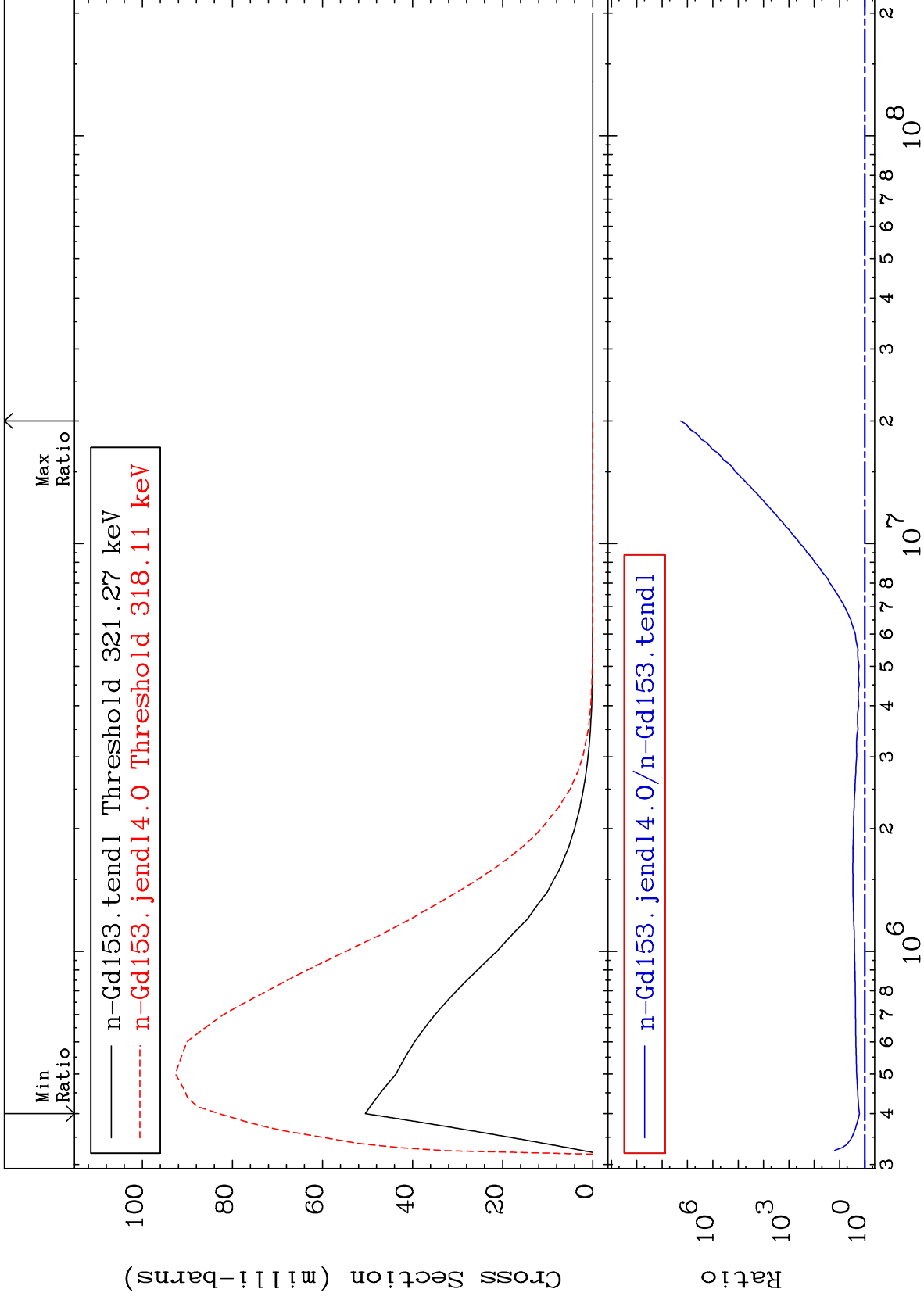


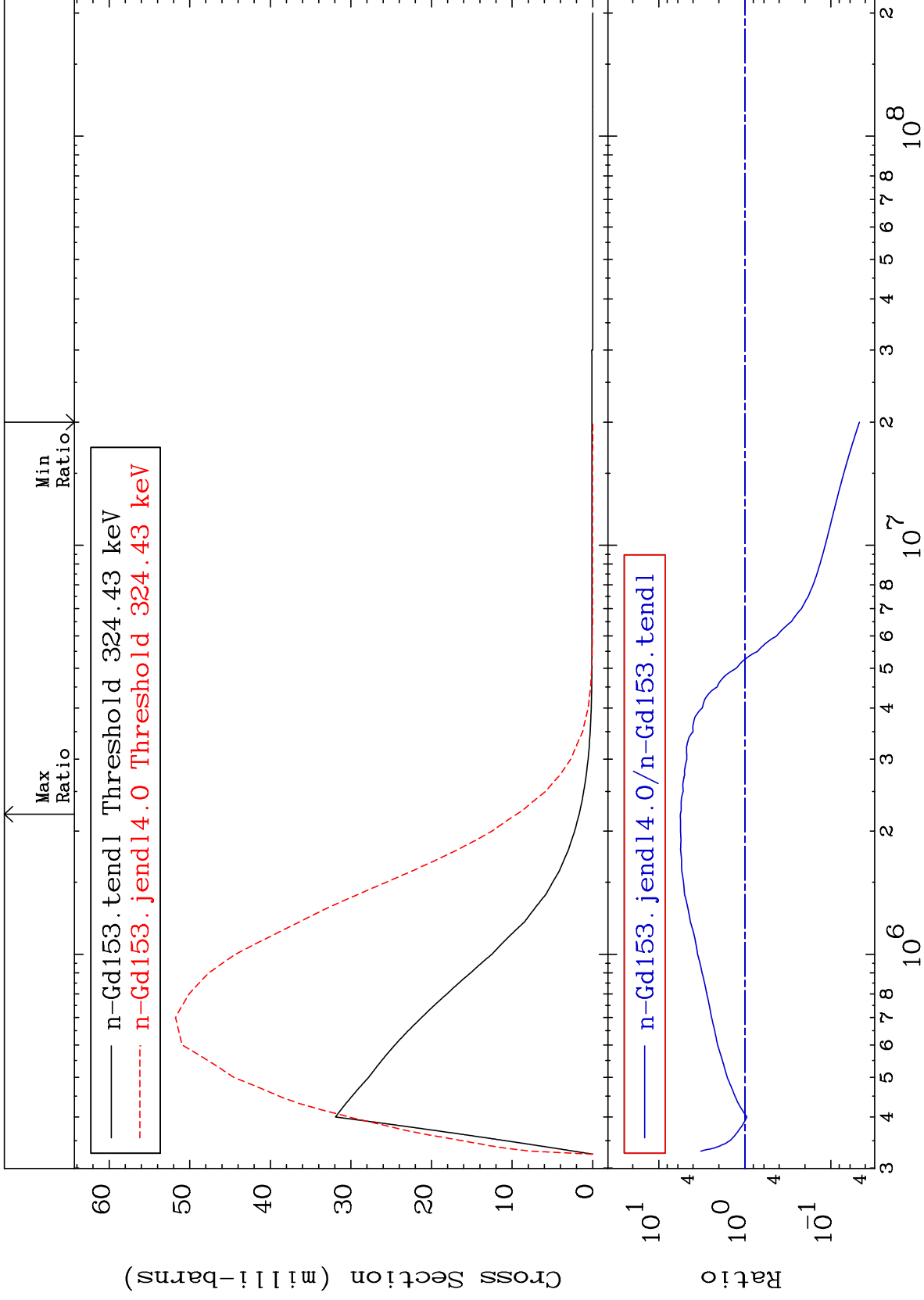


MAT 6428

MT= 67 (n,n') Level
Cross Section

64-Gd-153
64.32 To 9999. %

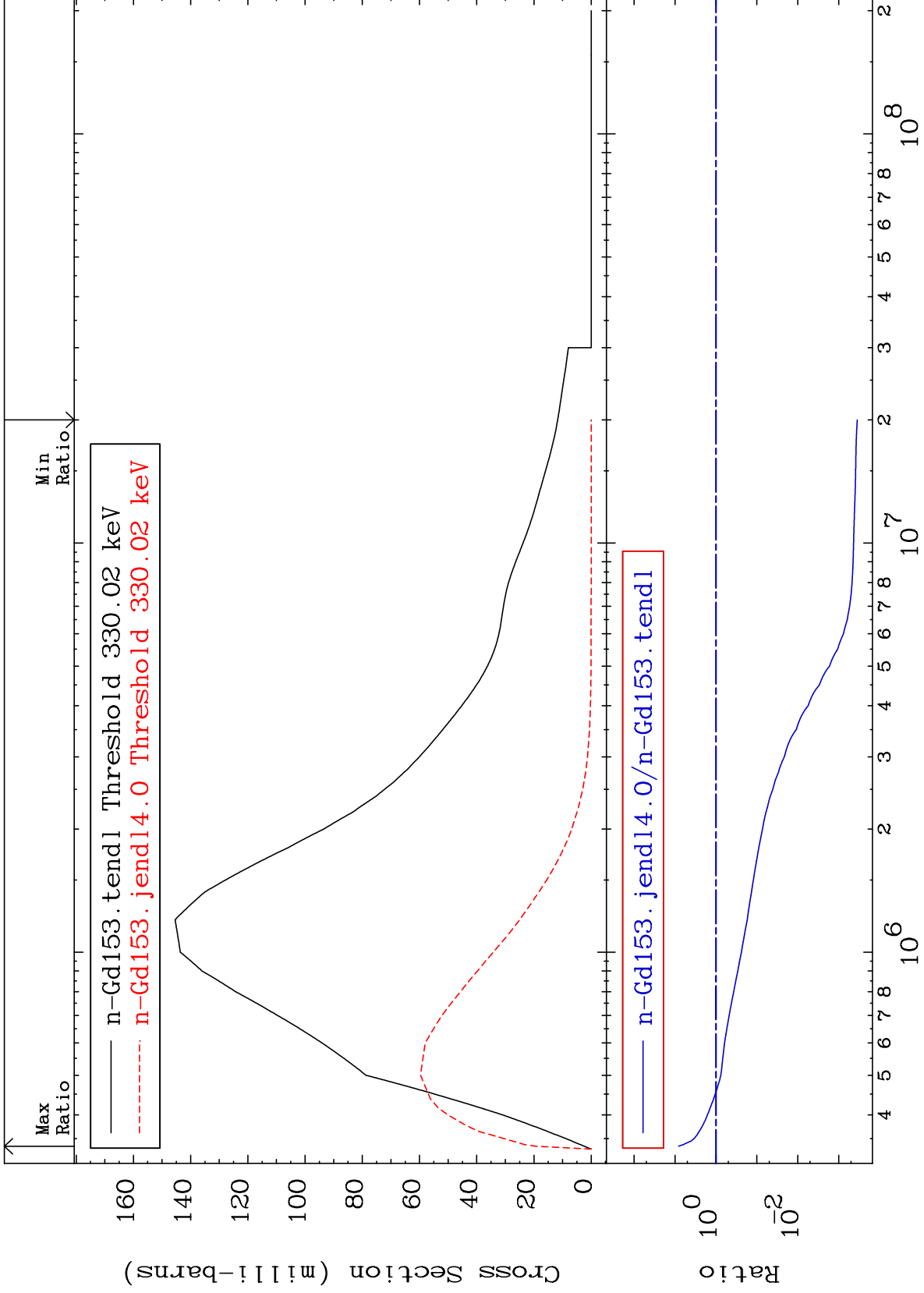




MAT 6428

MT= 69 (n,n') Level
Cross Section

64-Gd-153
-99.96 To 715.2 %



30

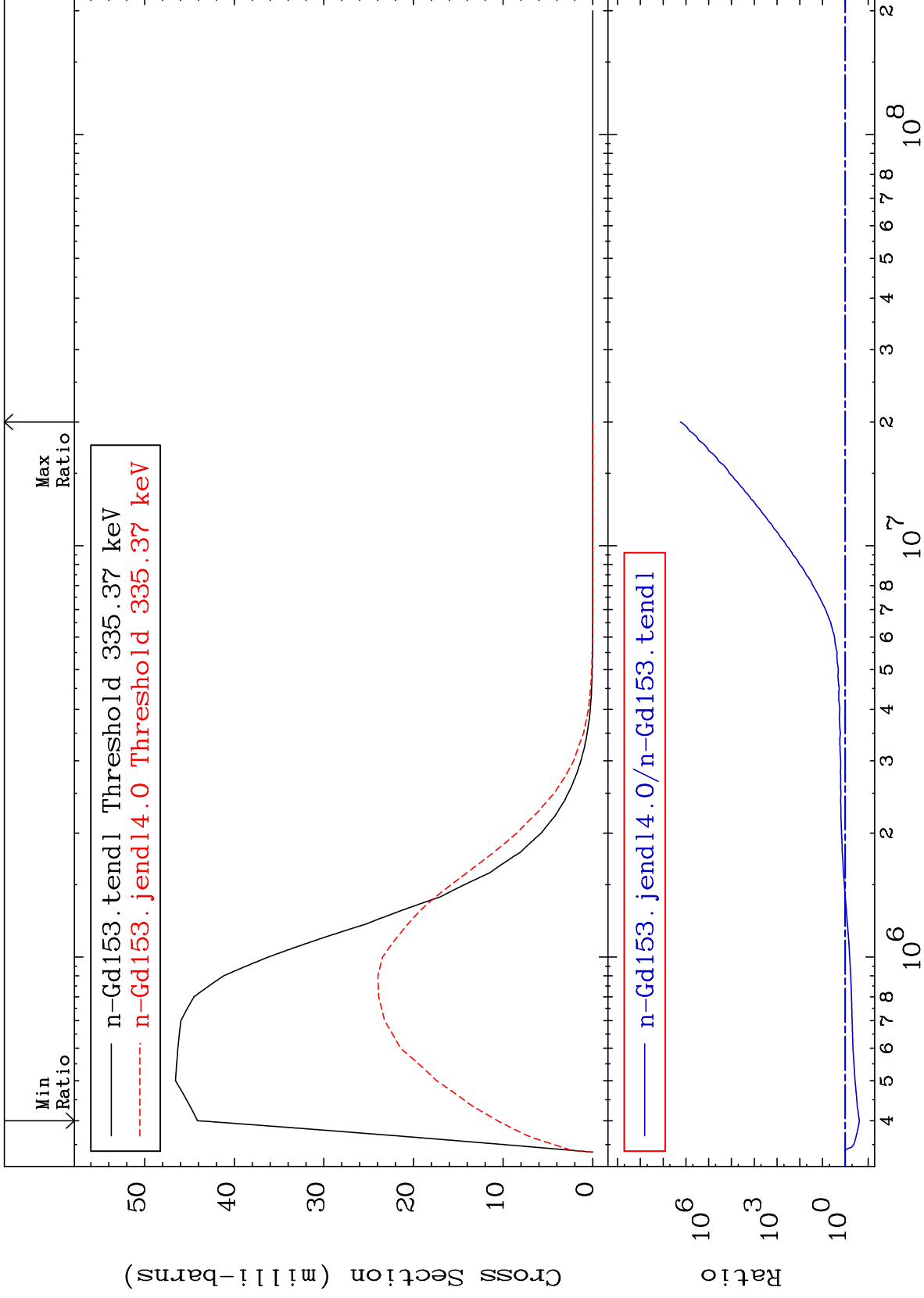
Incident Energy (eV)

64-Gd-153

MAT 6428

MT= 70 (n,n') Level
Cross Section

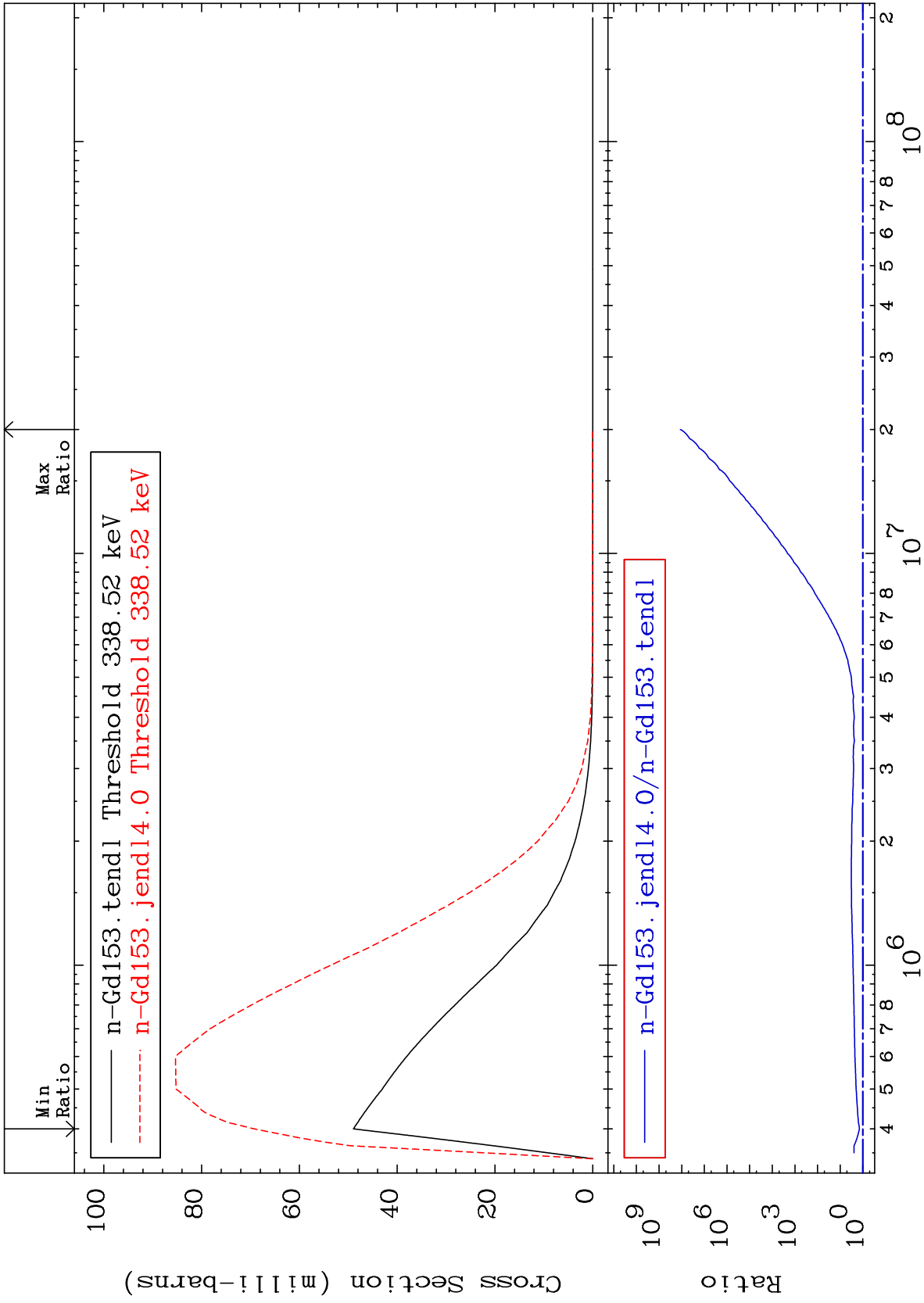
64-Gd-153
-75.93 To 9999. %

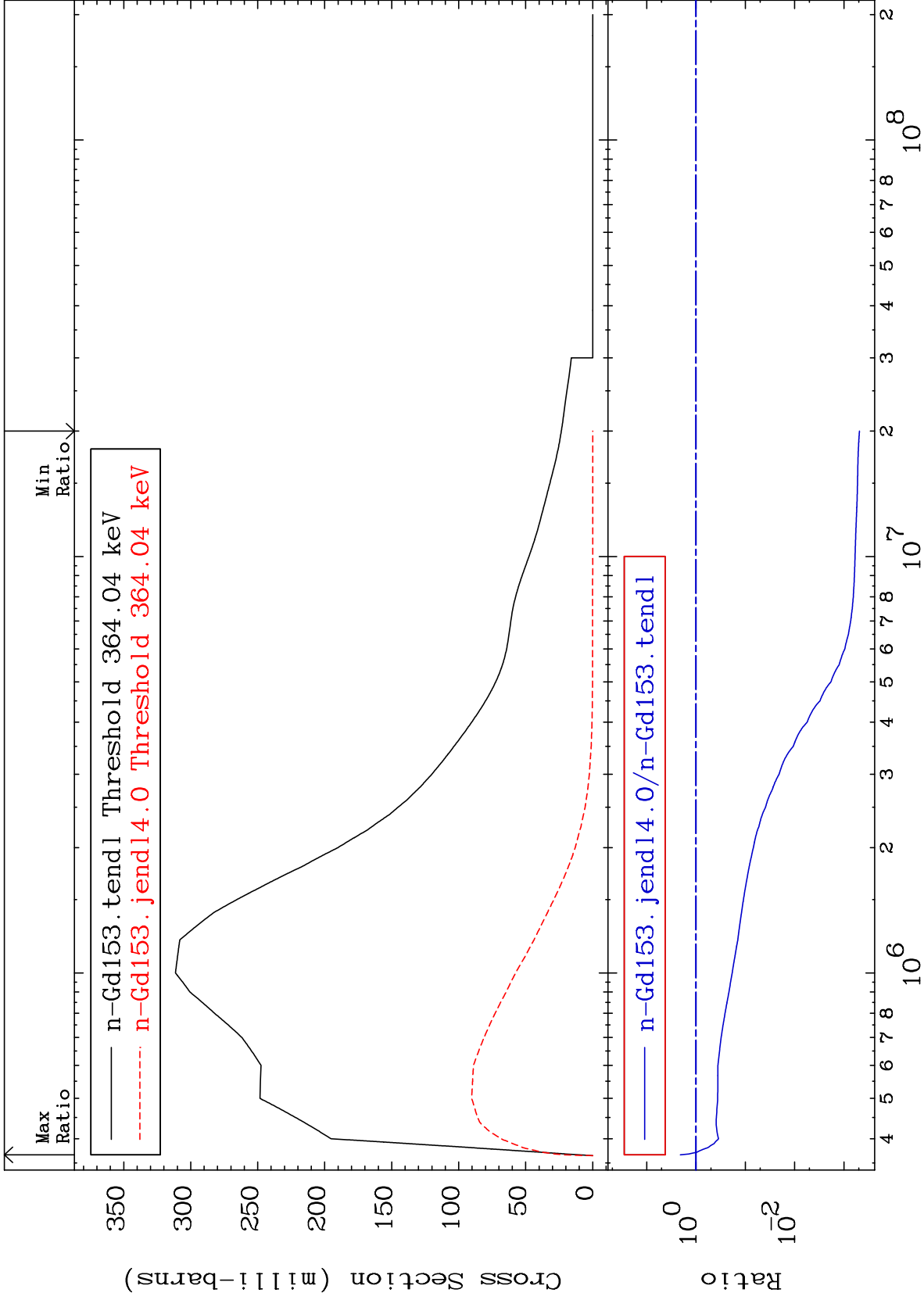


MAT 6428

MT= 71 (n,n') Level
Cross Section

64-Gd-153
41.36 To 9999. %

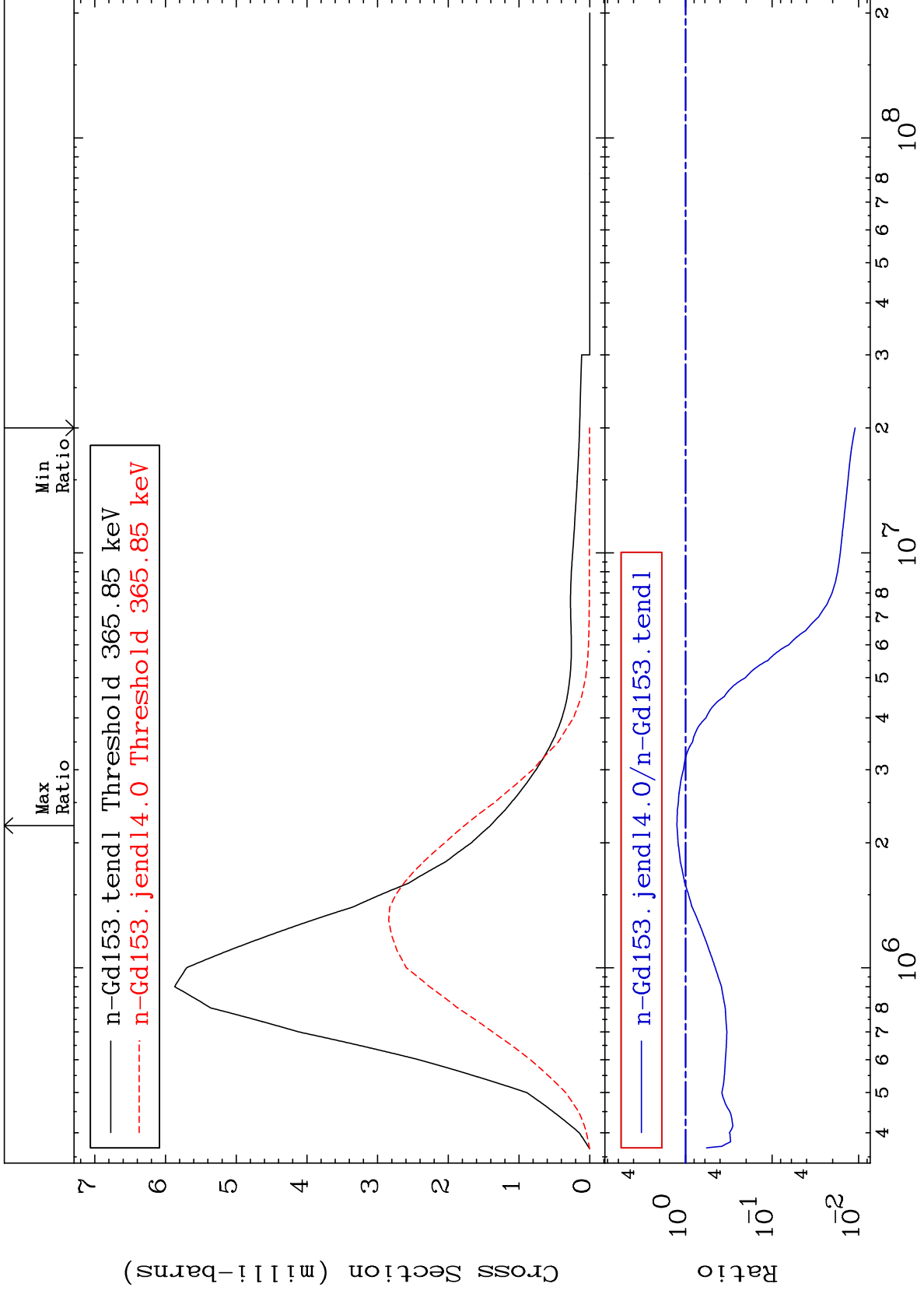




MAT 6428

MT= 73 (n,n') Level
Cross Section

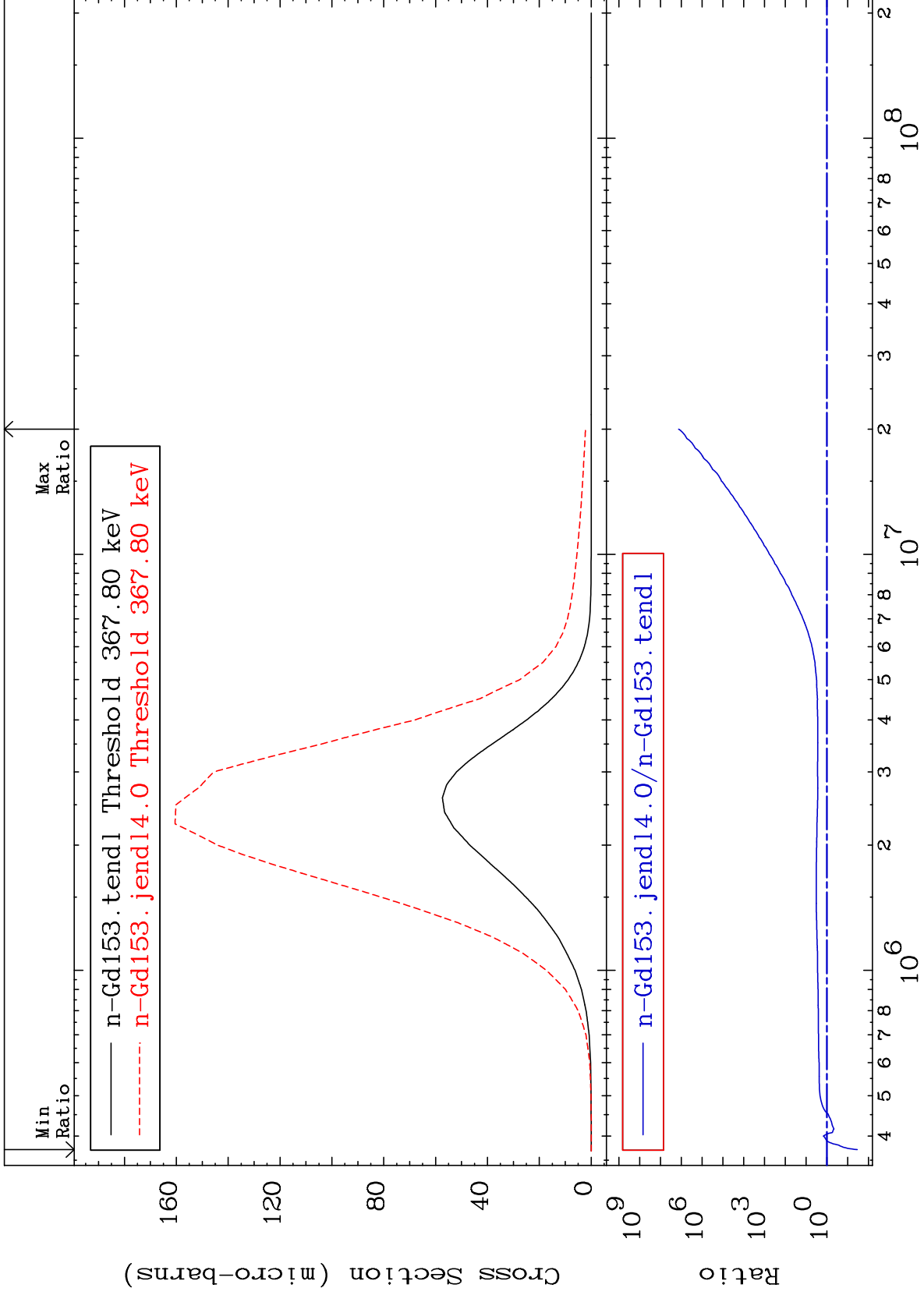
64-Gd-153
-98.90 To 26.13 %

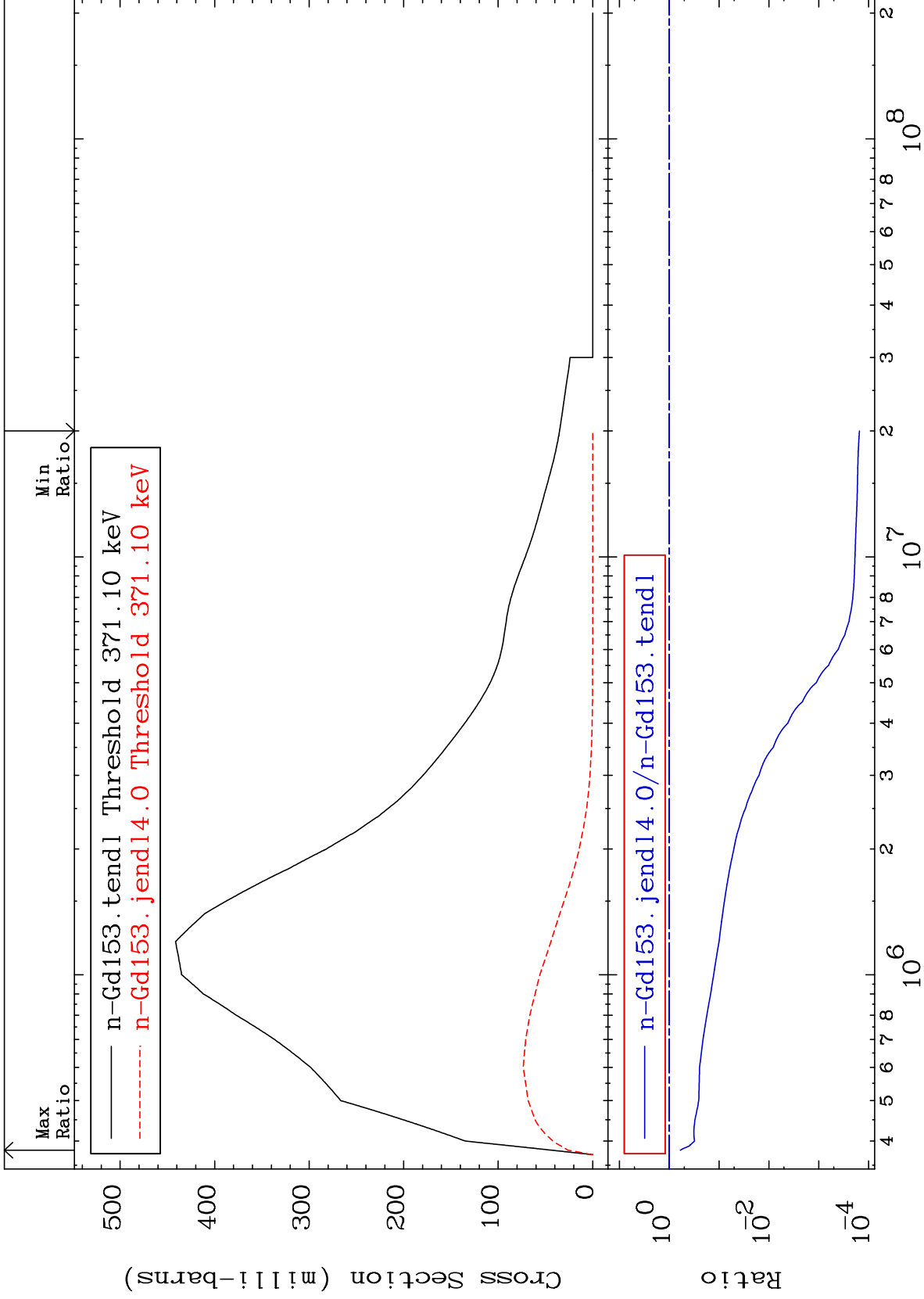


MAT 6428

MT= 74 (n,n') Level
Cross Section

64-Gd-153
-96.57 To 9999. %

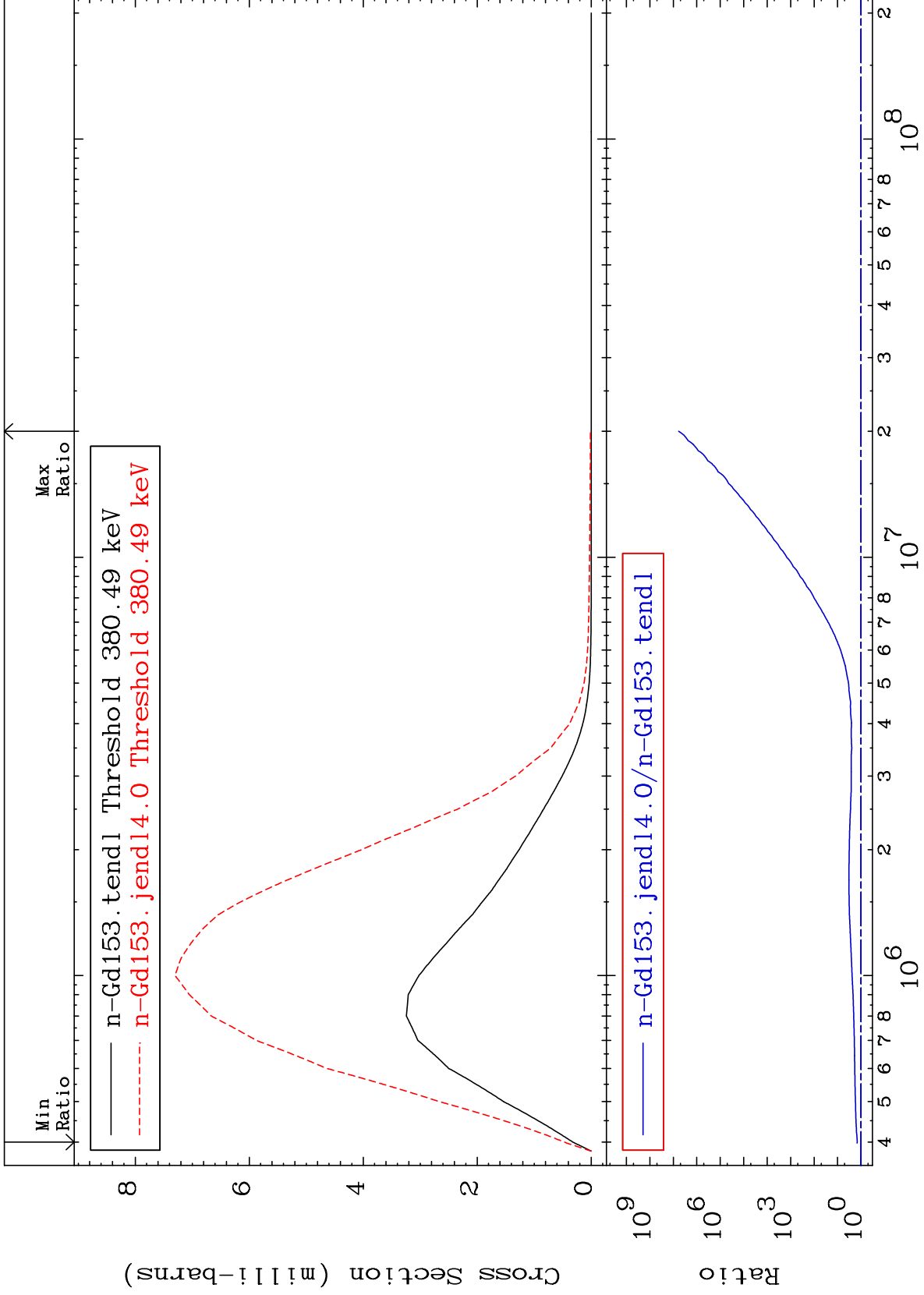


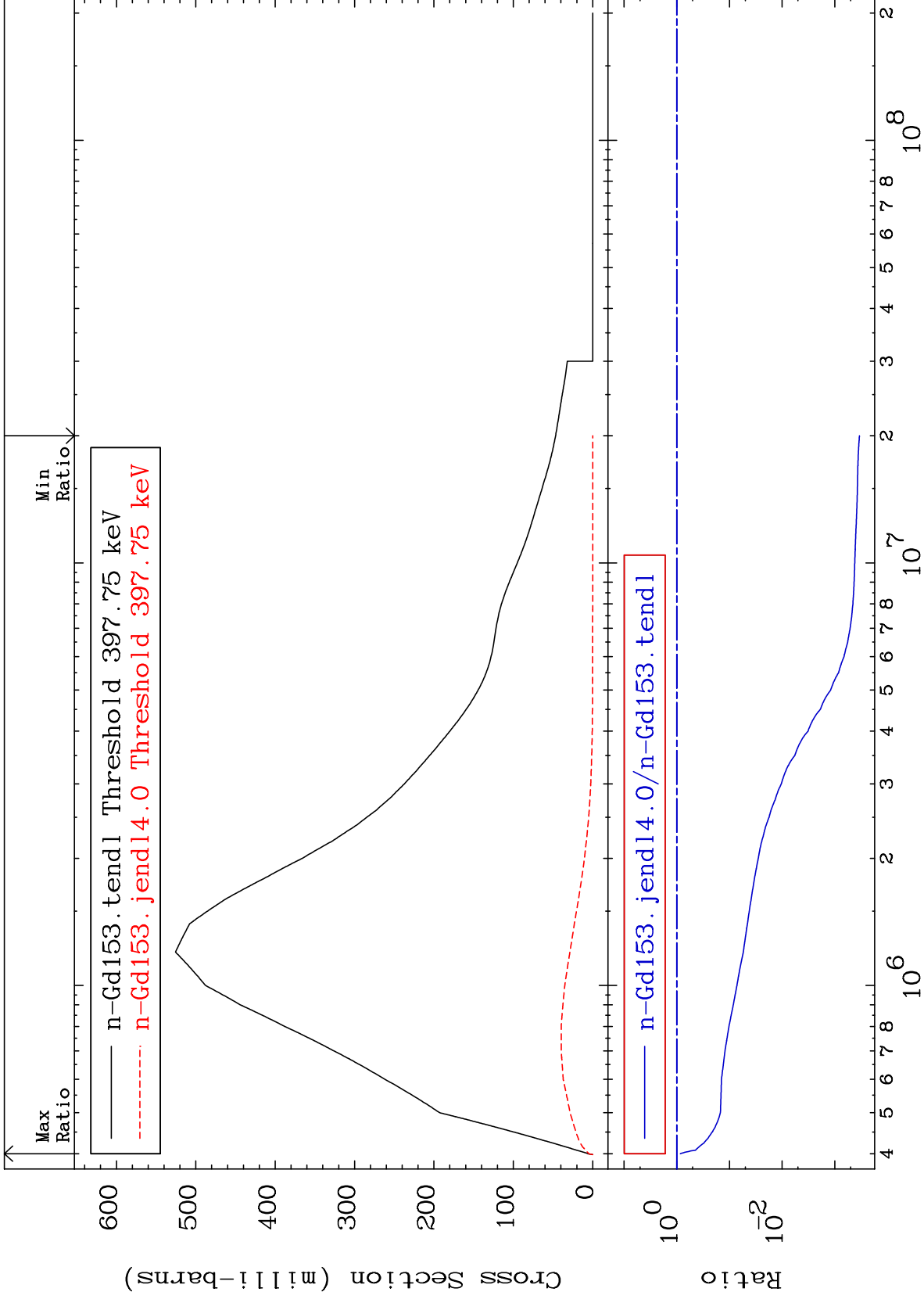


MAT 6428

MT= 76 (n,n') Level
Cross Section

64-Gd-153
45.31 To 9999. %

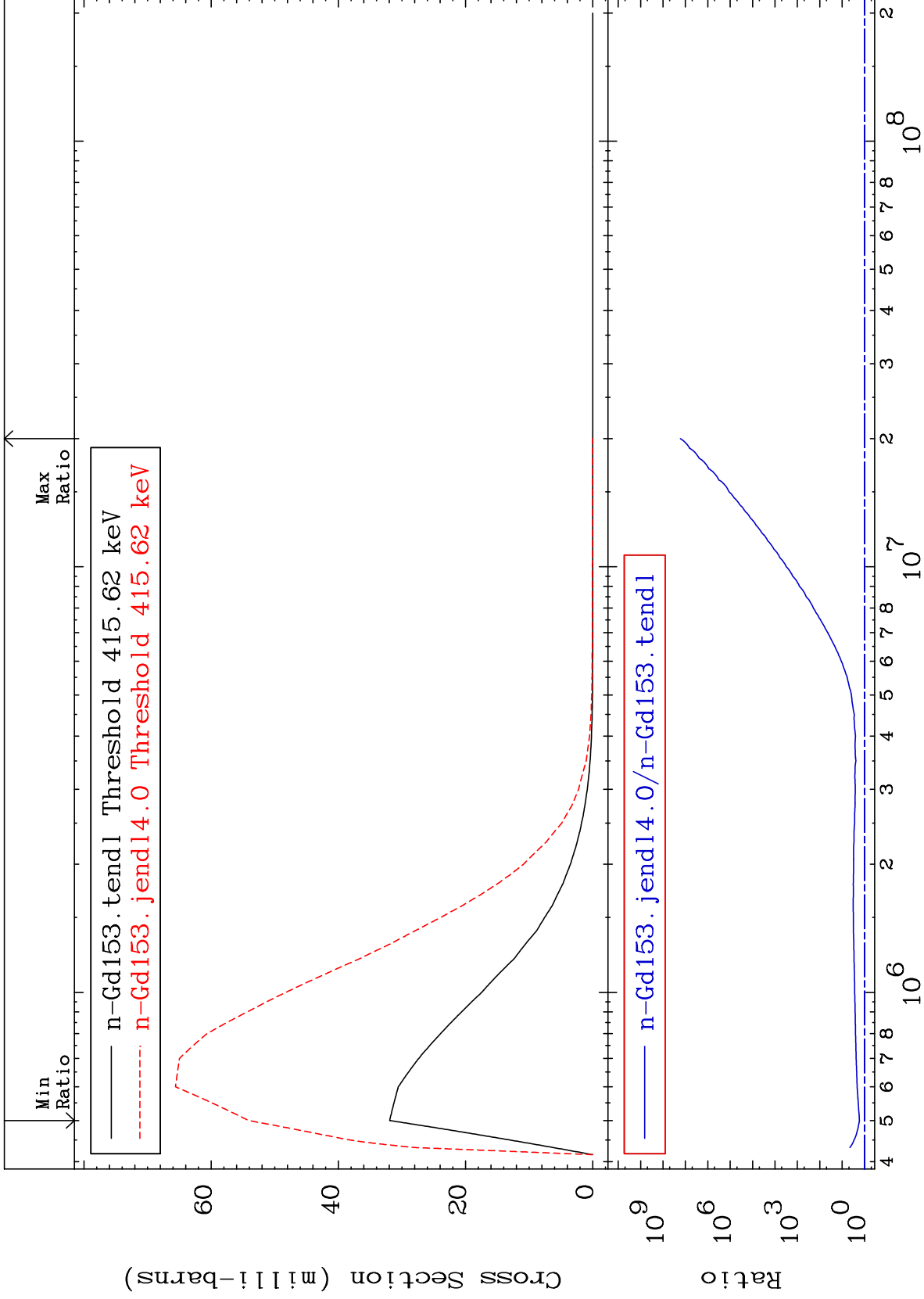




MAT 6428

MT= 78 (n,n') Level
Cross Section

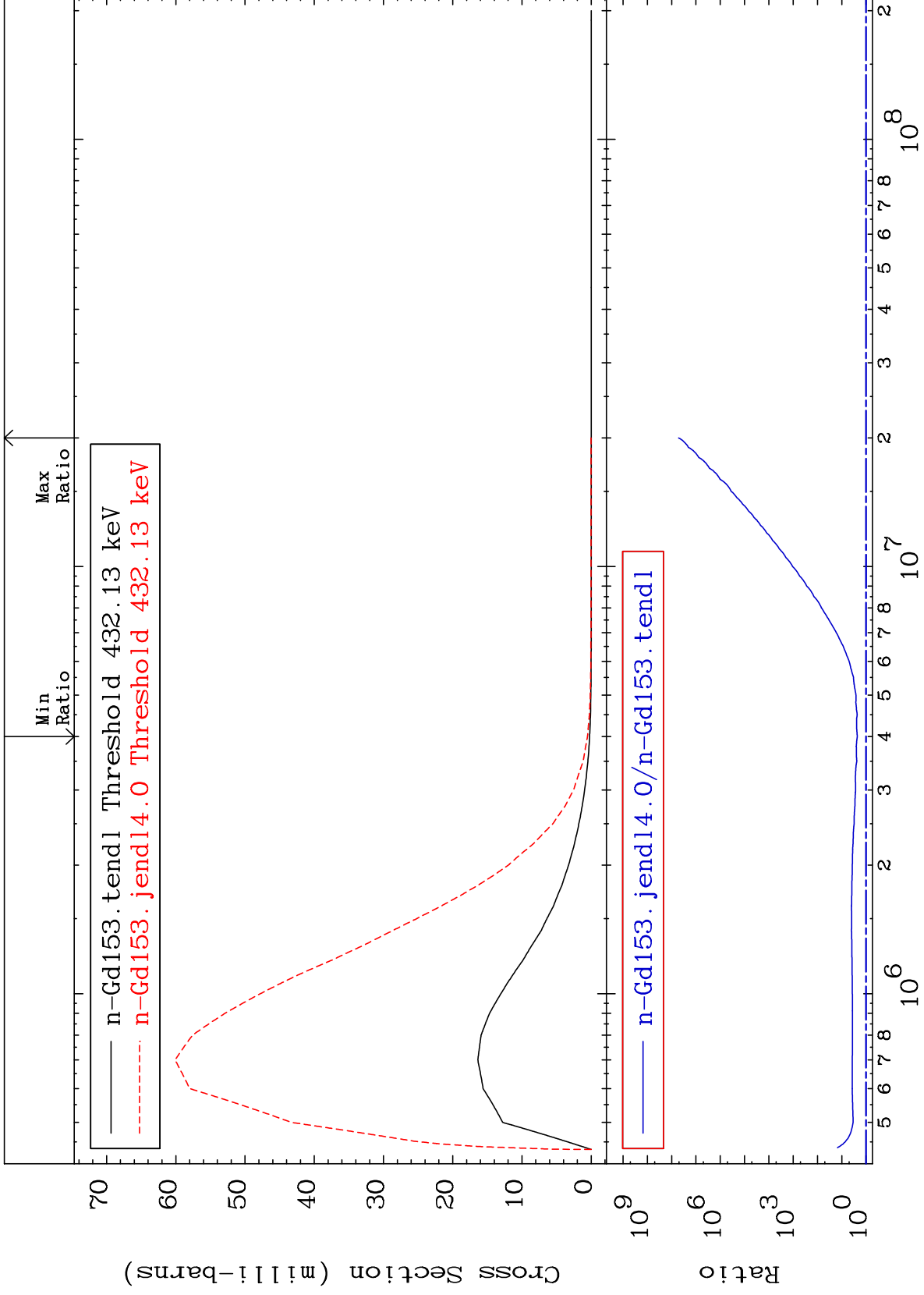
64-Gd-153
69.49 To 9999. %



MAT 6428

MT= 79 (n,n') Level
Cross Section

64-Gd-153
130.4 To 9999. %



40

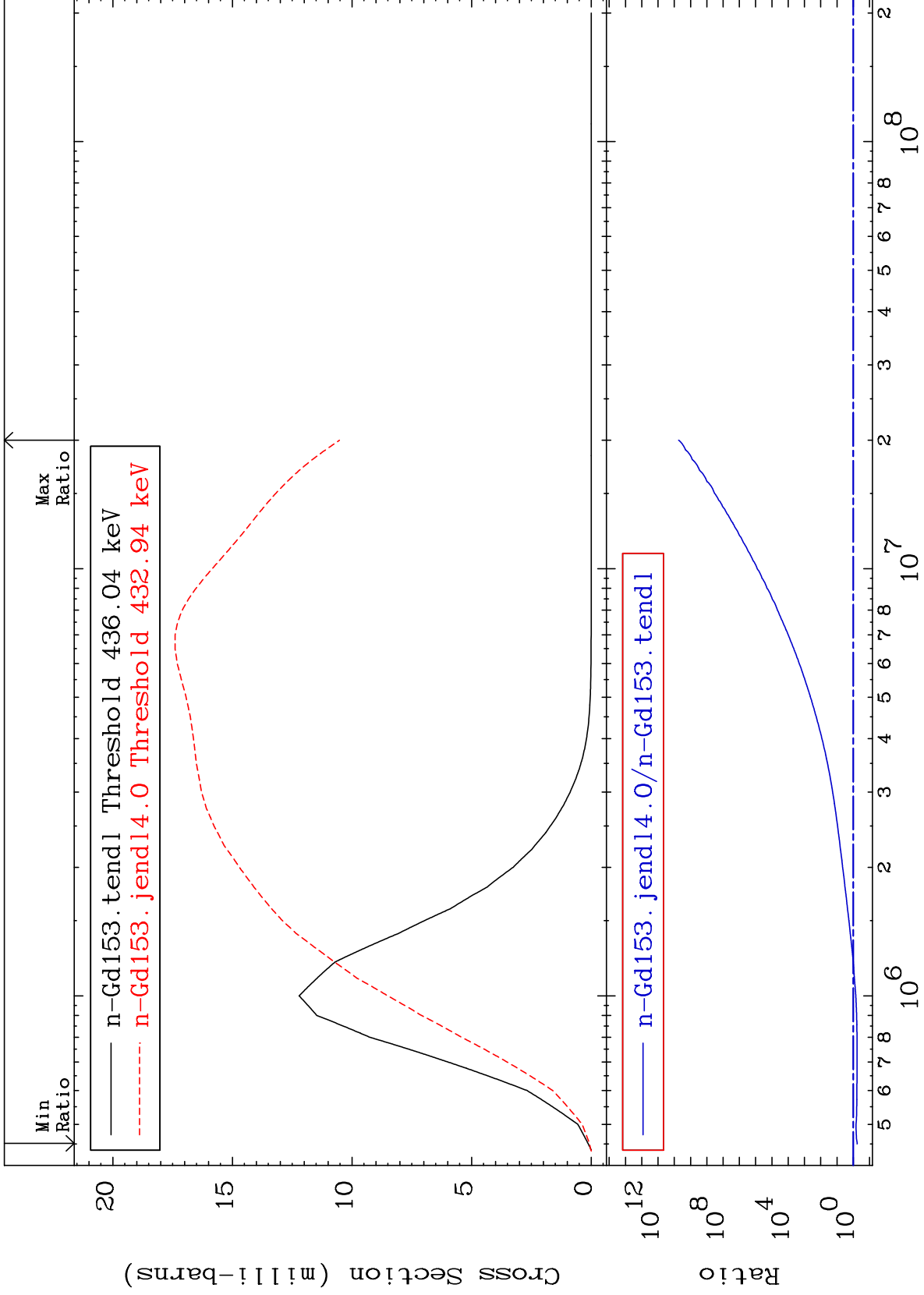
Incident Energy (eV)

64-Gd-153

MAT 6428

MT= 80 (n,n') Level
Cross Section

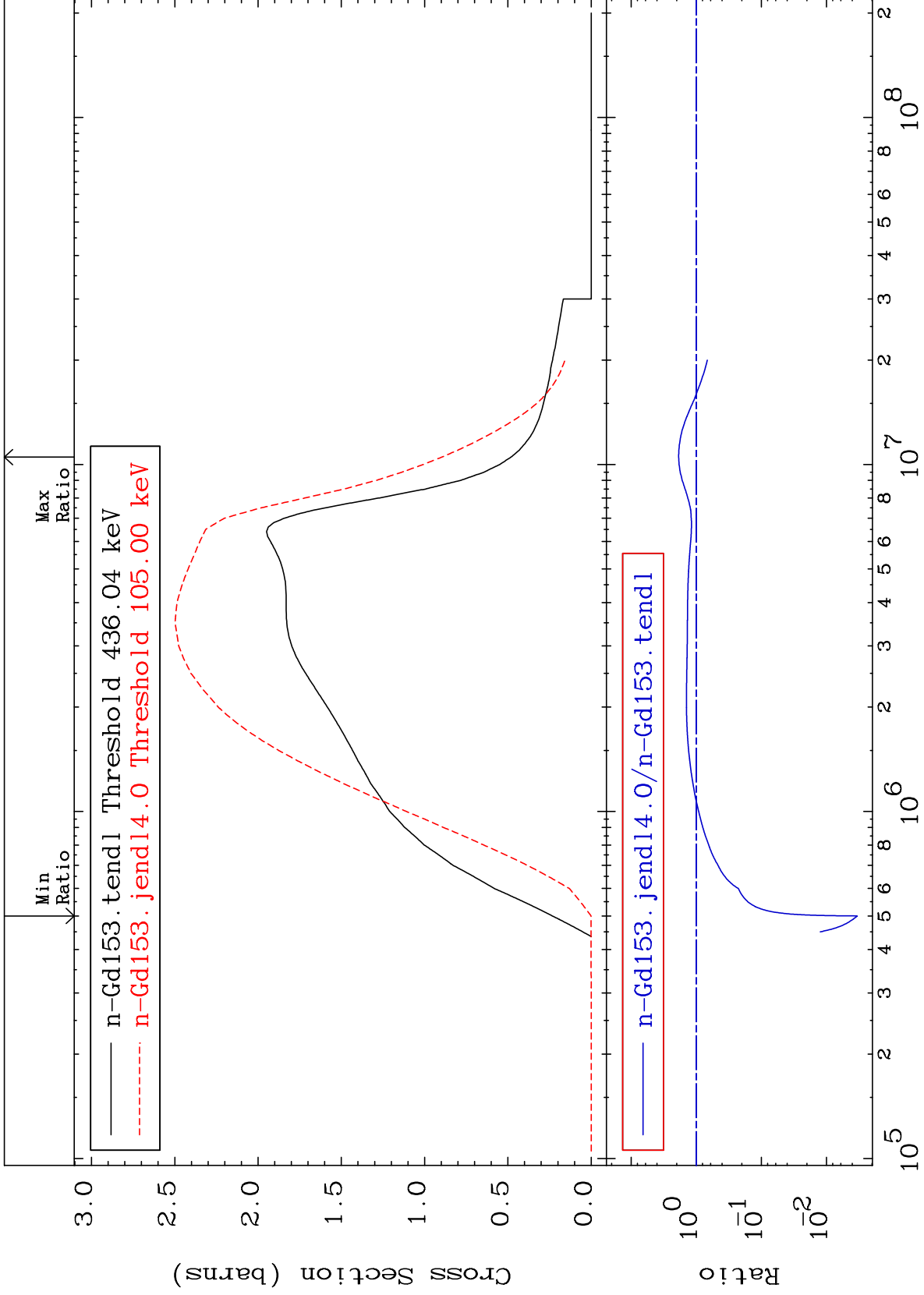
64-Gd-153
-43.17 To 9999. %



MAT 6428

(n, n') Continuum
Cross Section

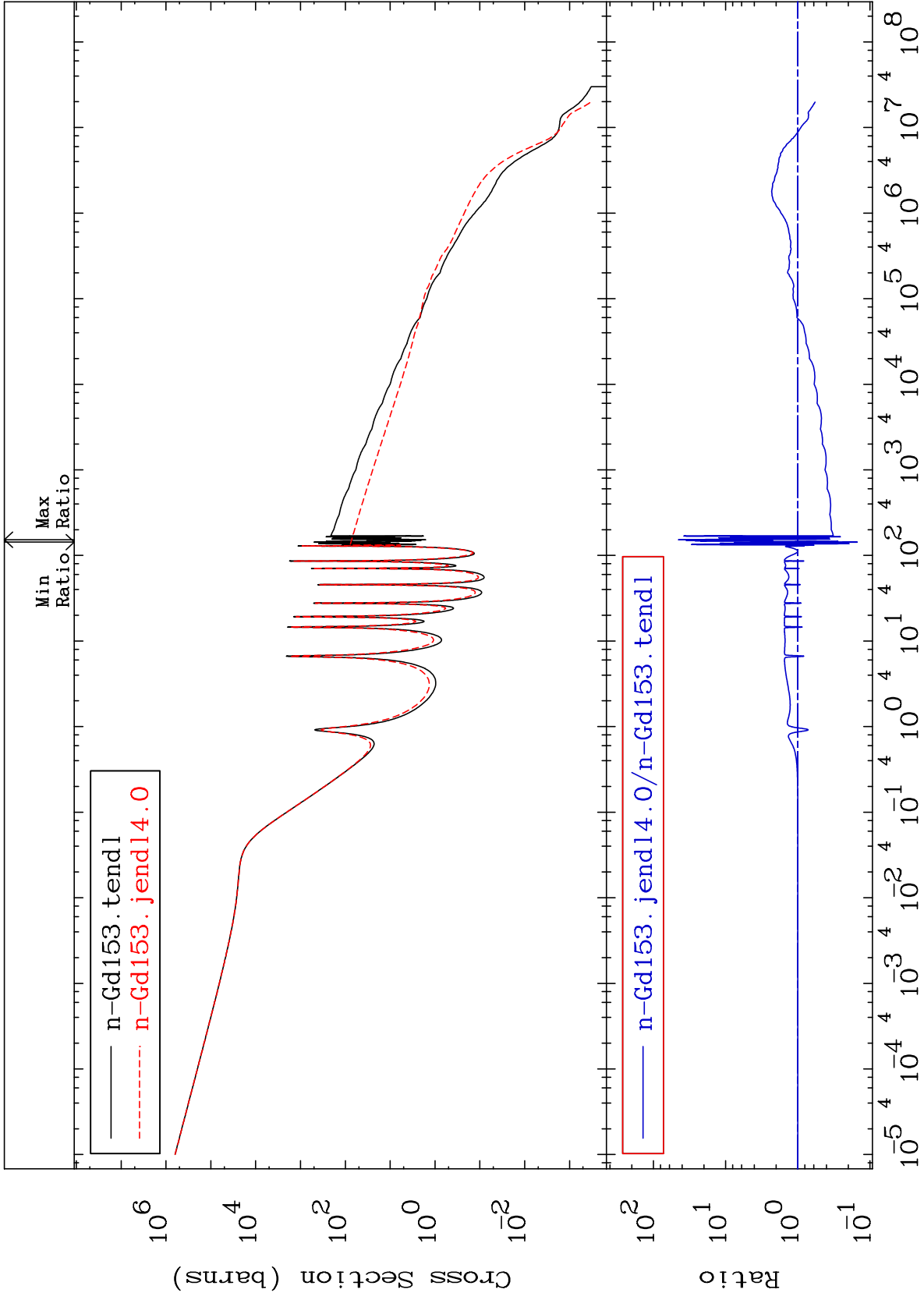
64-Gd-153
-99.66 To 86.38 %



MAT 6428

(n, γ)
Cross Section

64-Gd-153
-84.97 To 4382. %



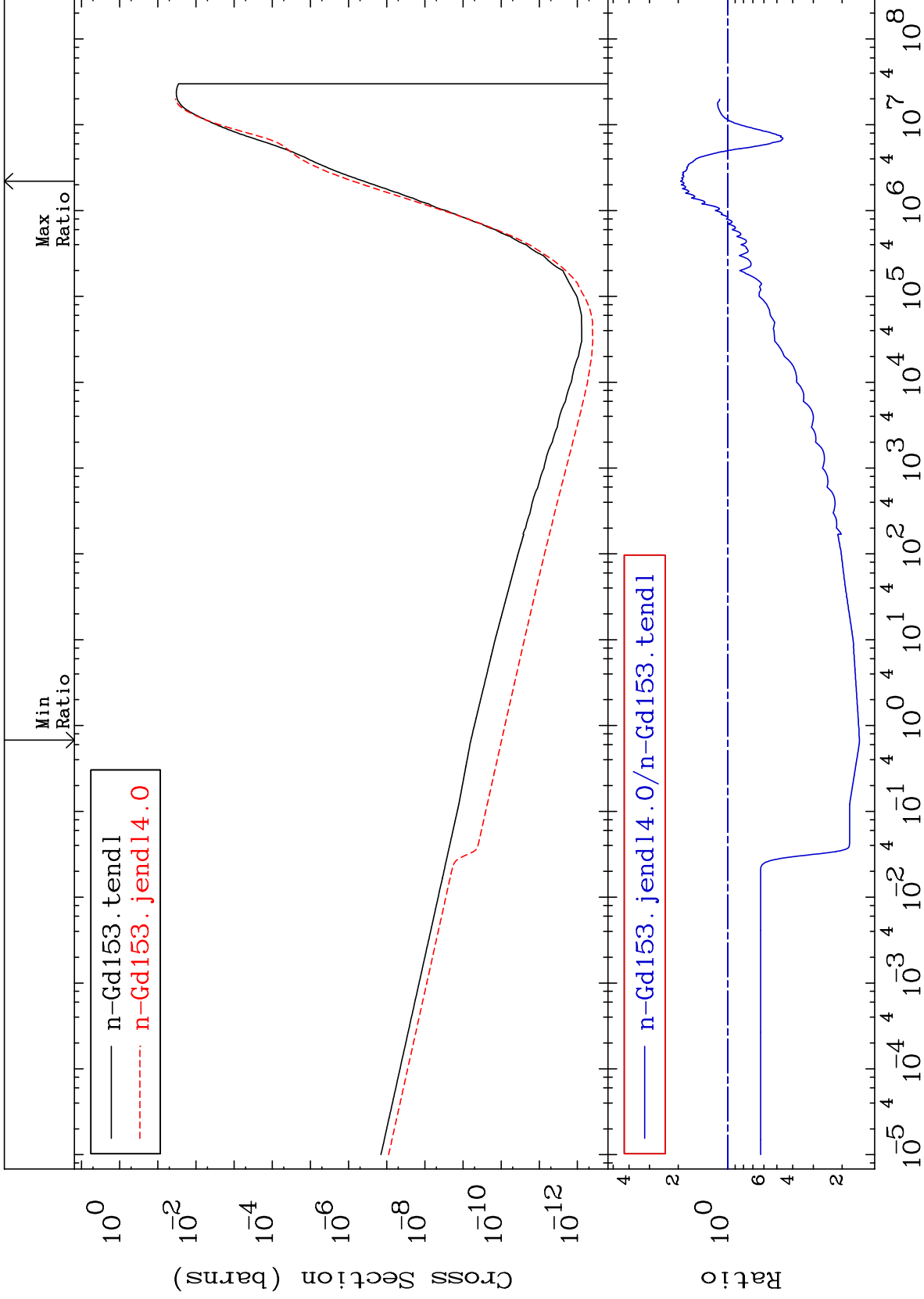
MAT 6428

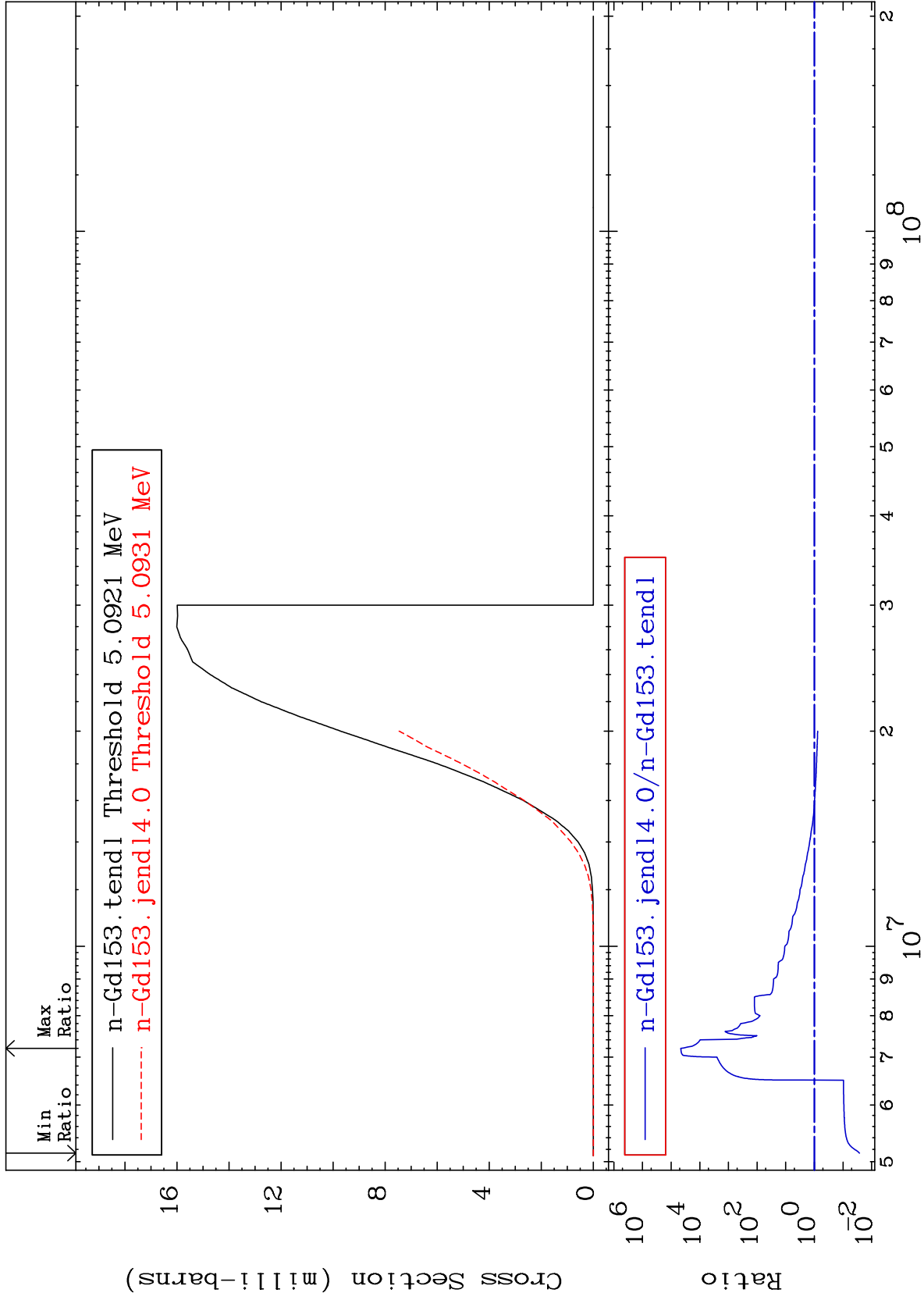
(n, p)

64-Gd-153

Cross Section

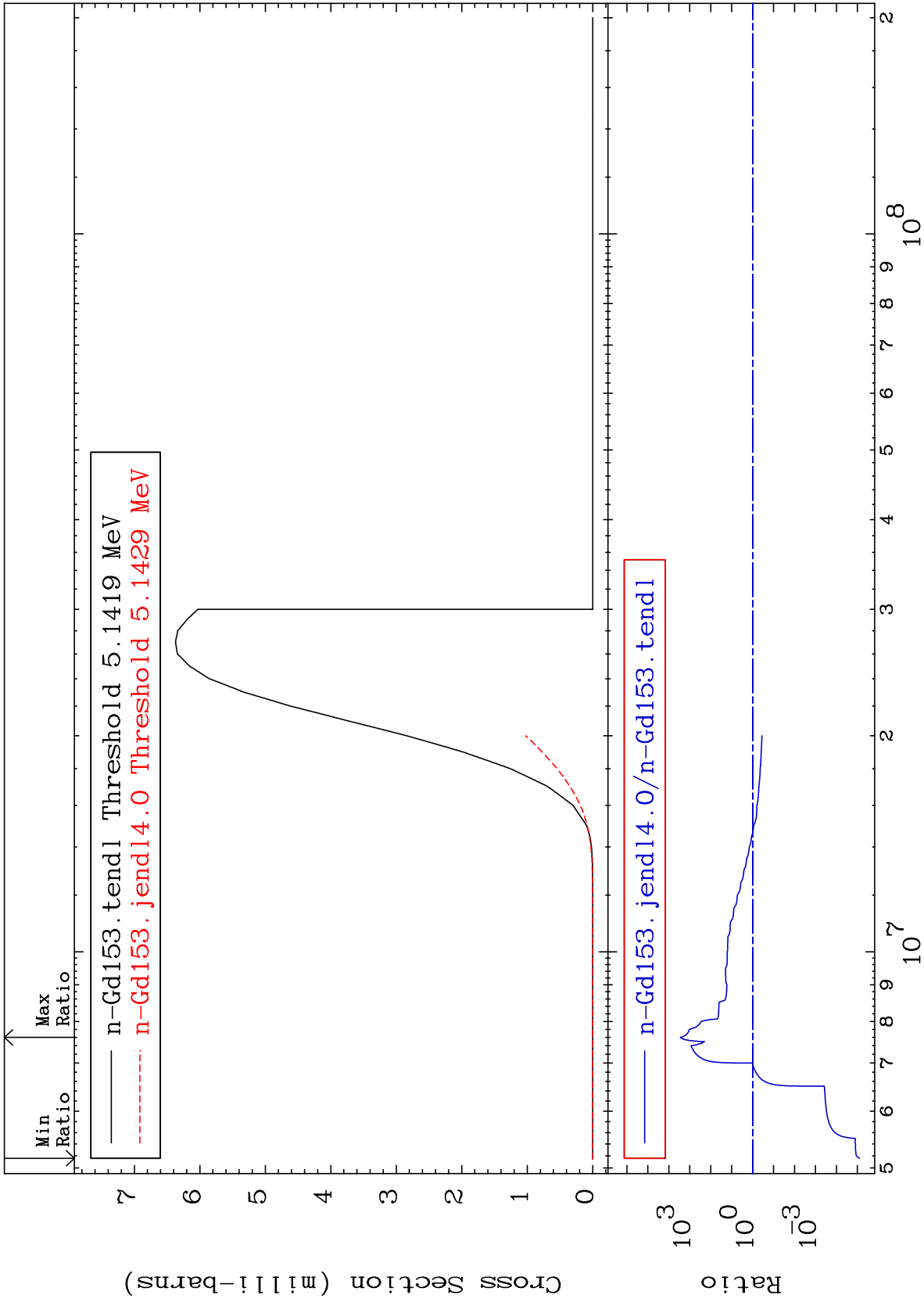
-84.32 To 94.22 %





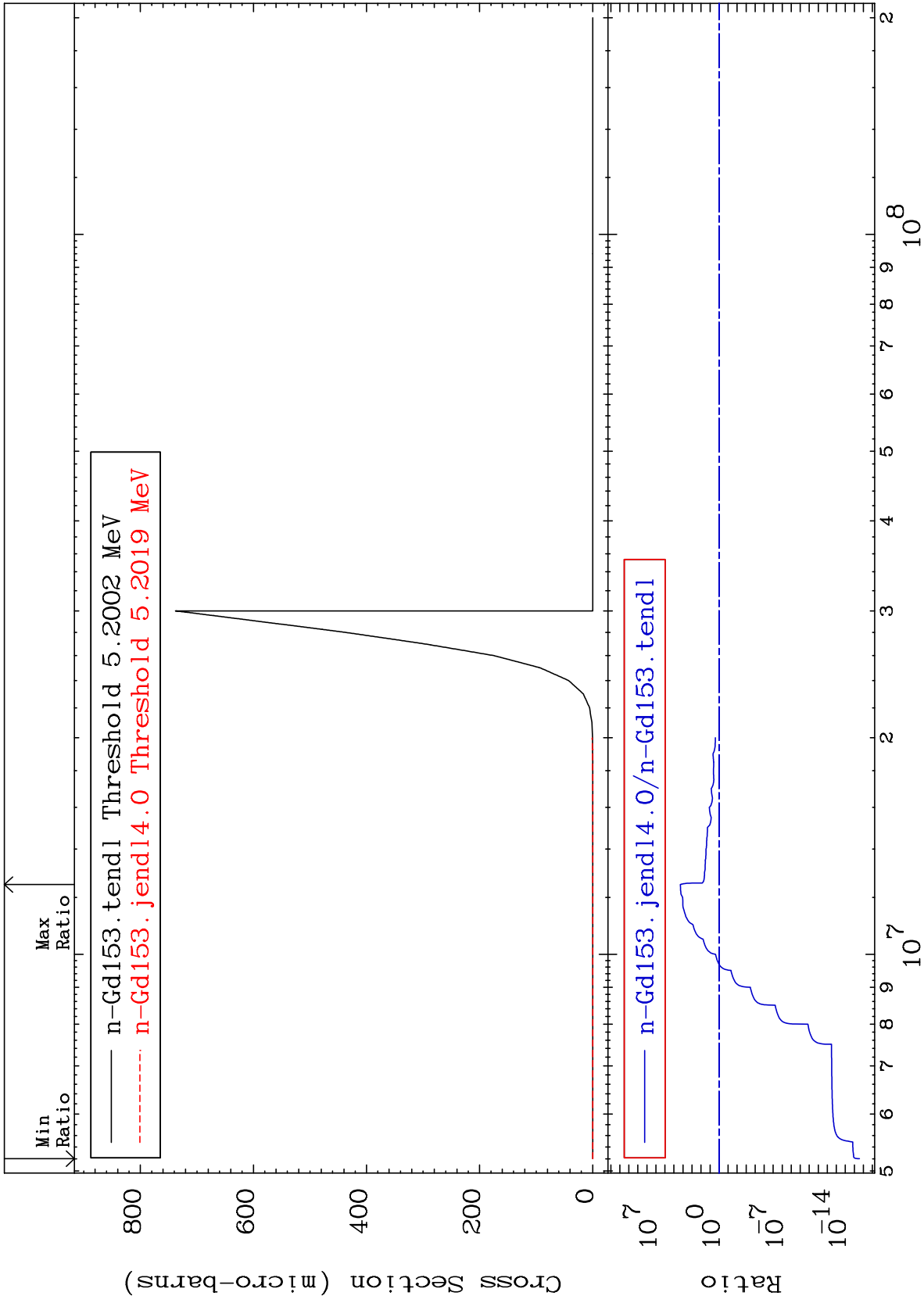
Cross Section

-100.0 To 9999. %



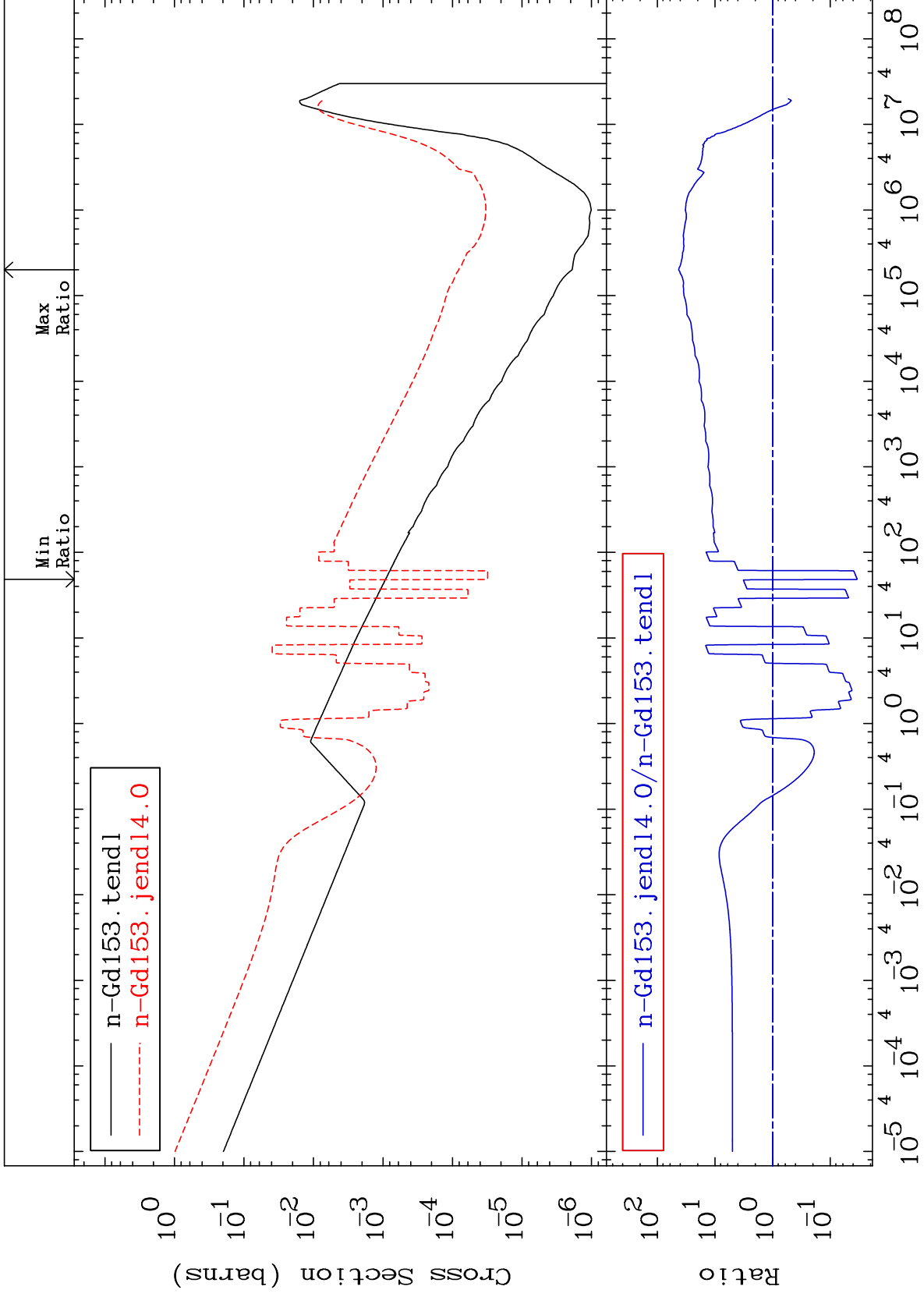
Cross Section

-100.0 To 9999. %



MAT 6428

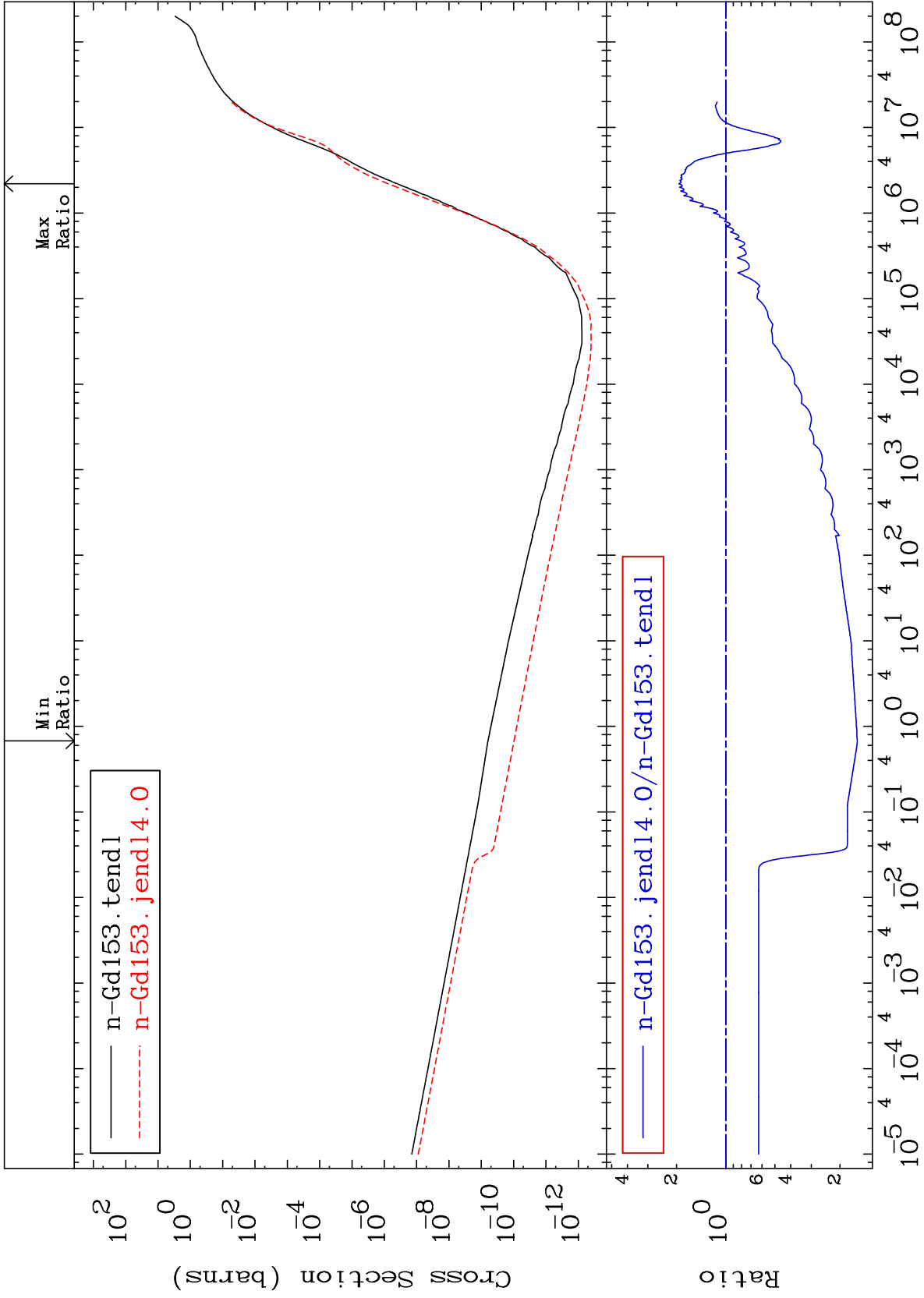
(n, α)
Cross Section
64-Gd-153
-96.61 To 4177. %



MAT 6428

Hydrogen Production Cross Section

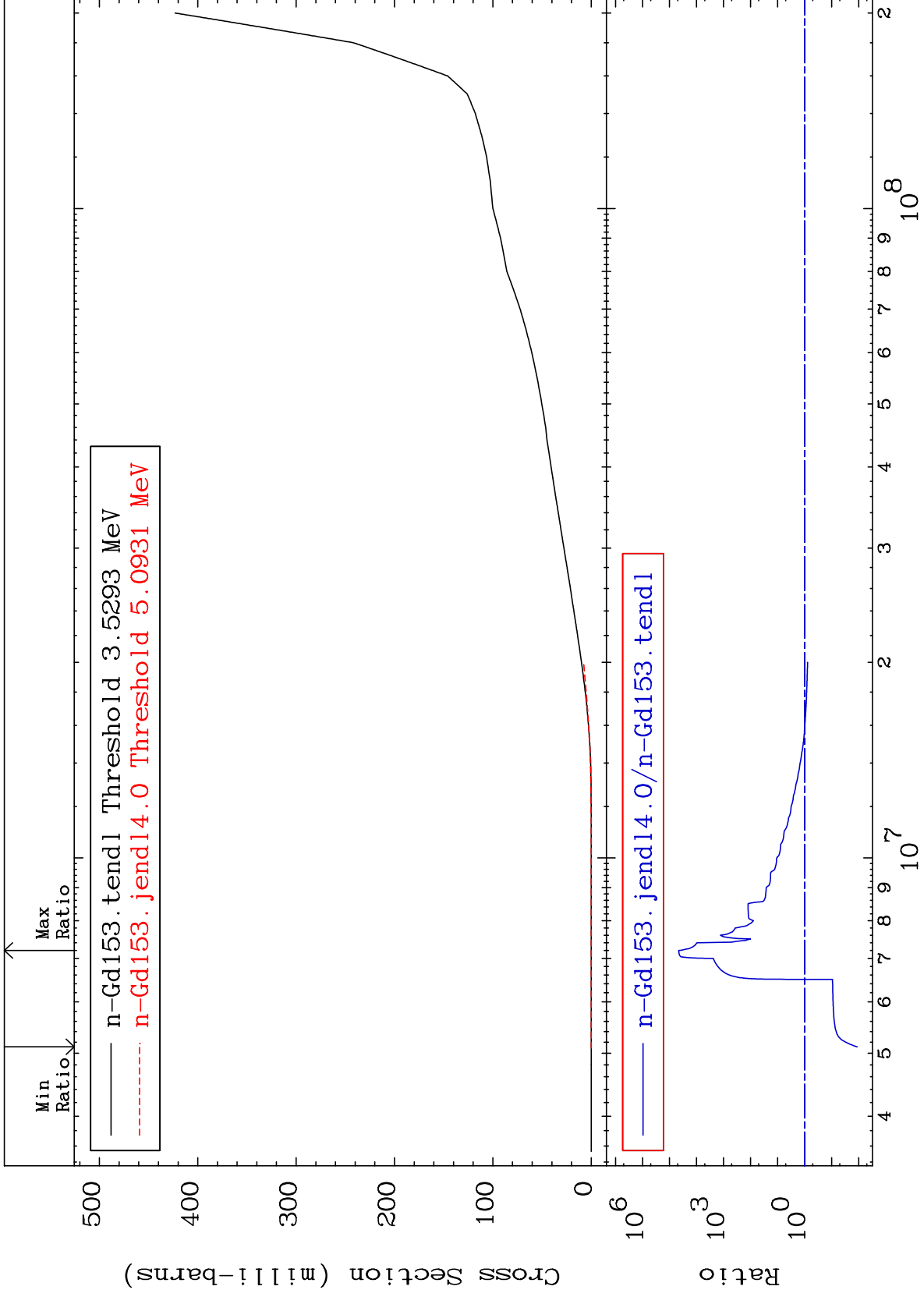
64-Gd-153
-84.32 To 94.22 %

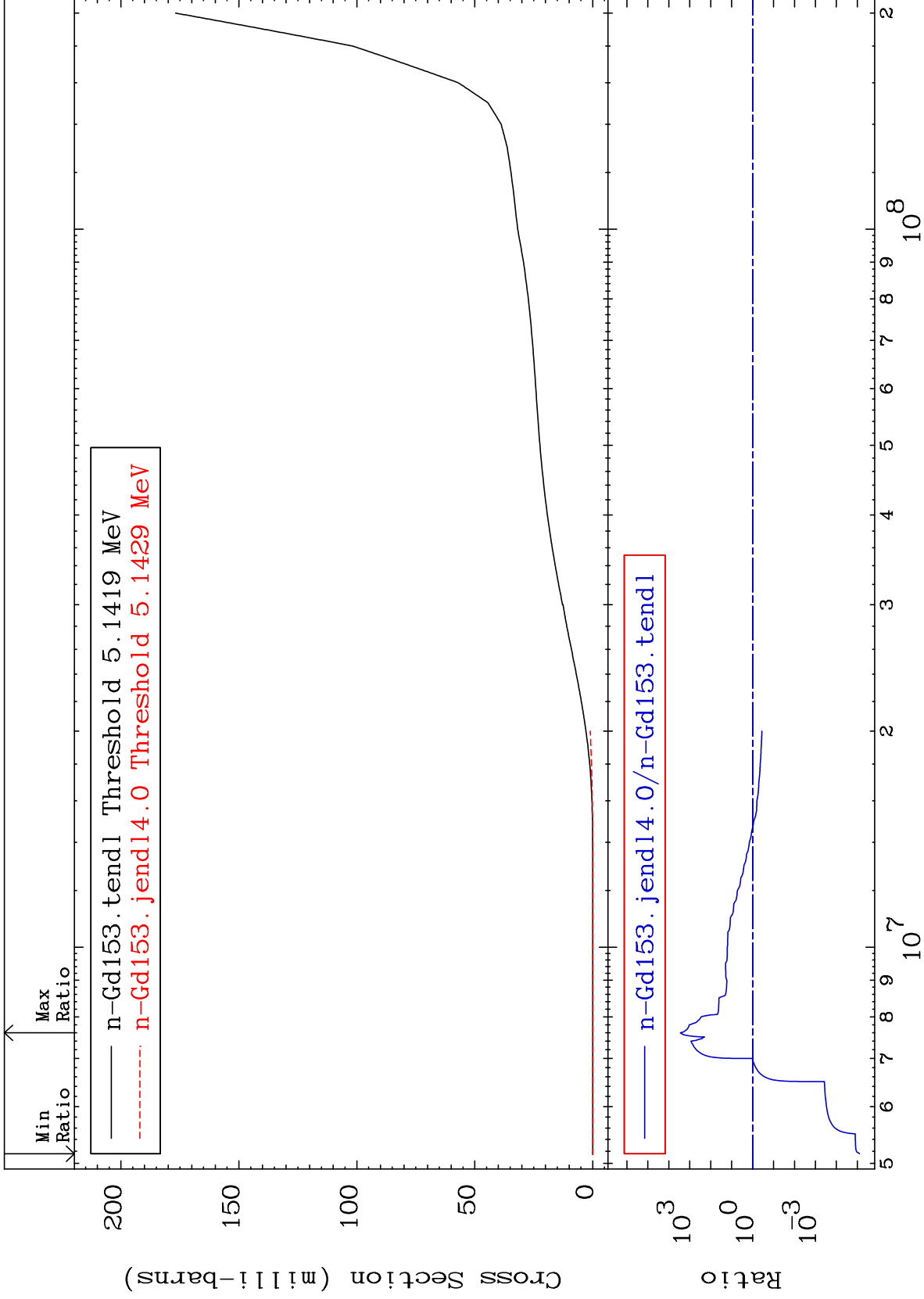


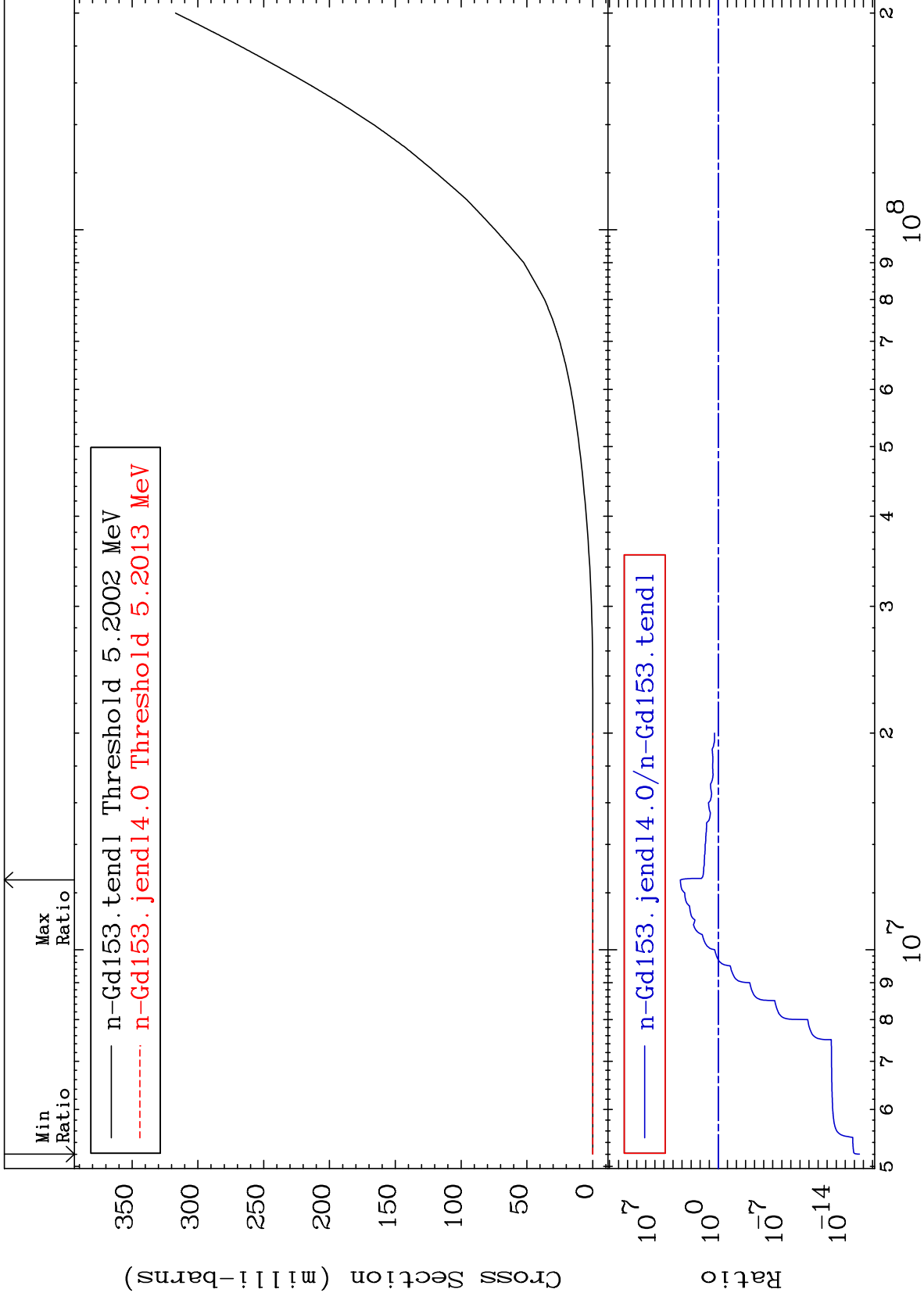
MAT 6428

Deuterium Production
Cross Section

64-Gd-153
-98.87 To 9999. %



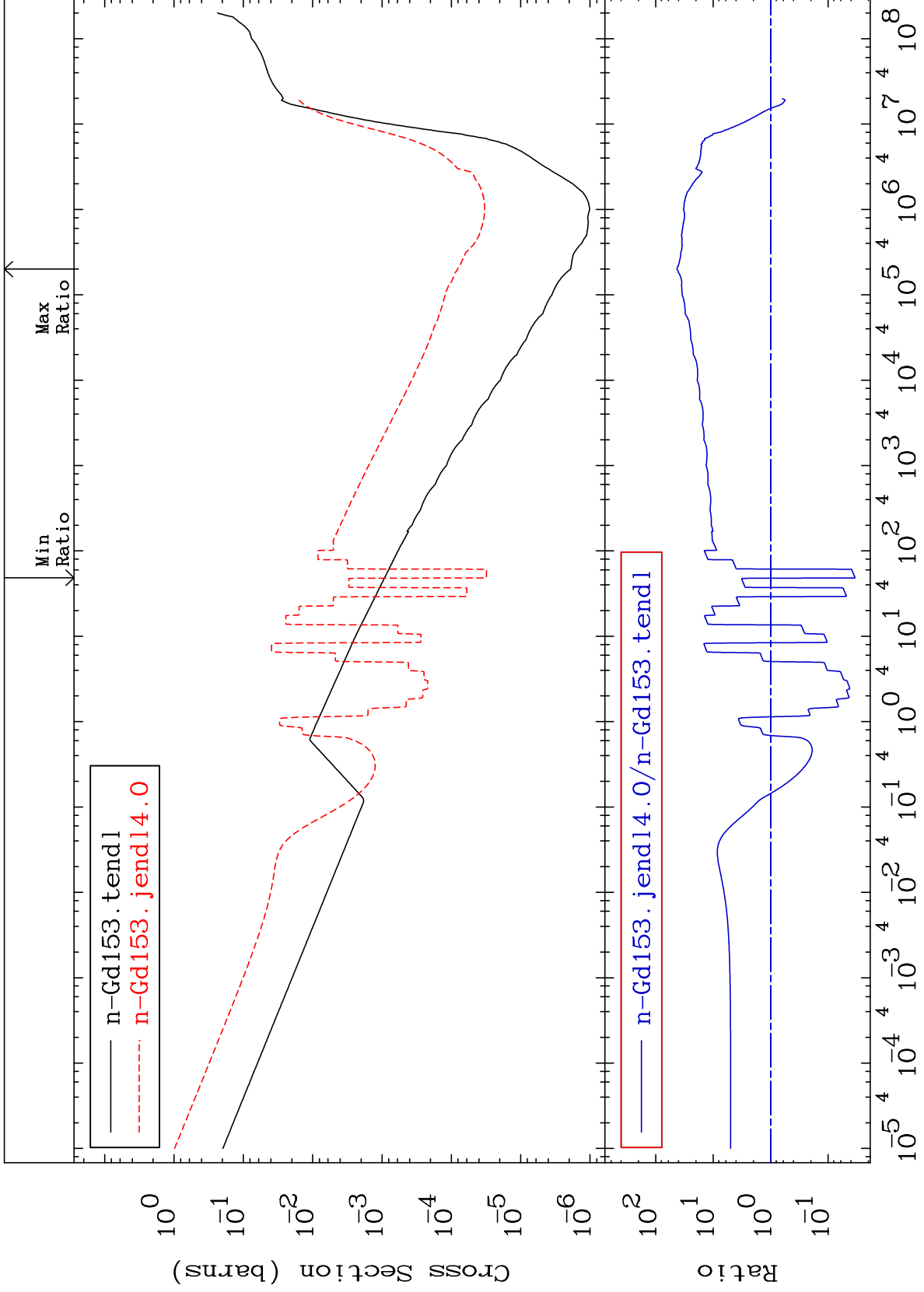


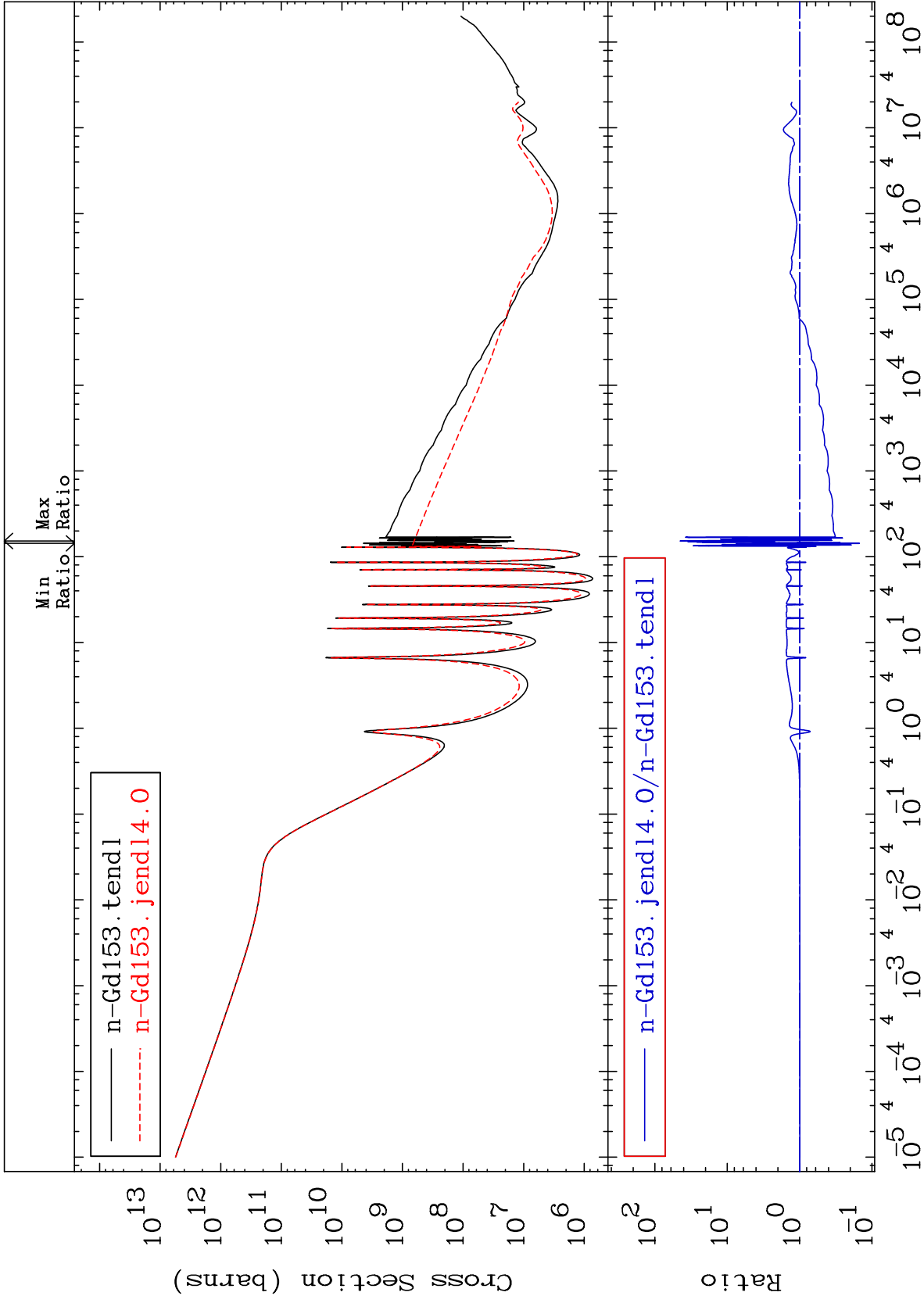


MAT 6428

He-4 Production
Cross Section

64-Gd-153
-96.61 To 4177. %





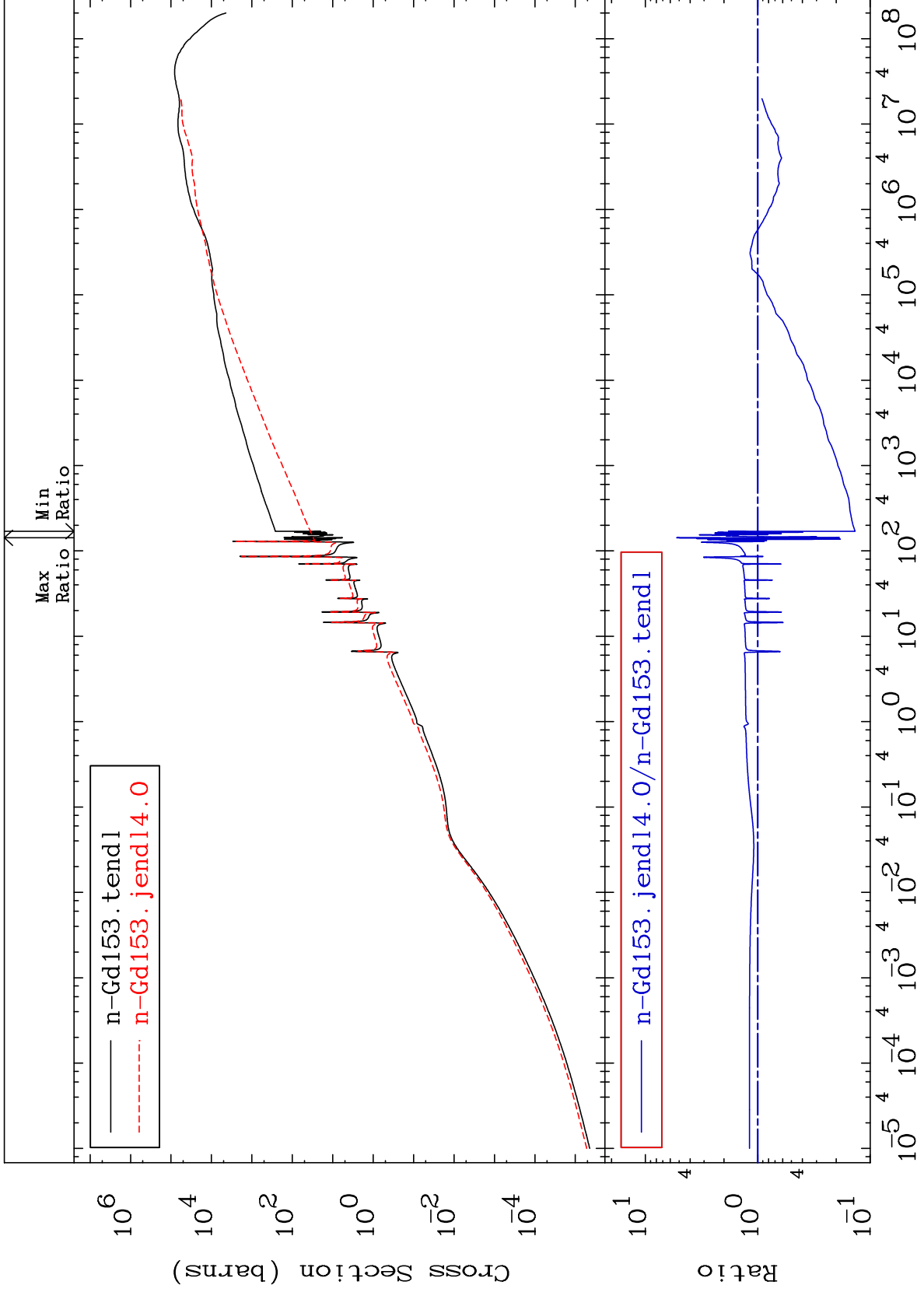
— n-Gd153.tendl
- - - n-Gd153.jendl4.0

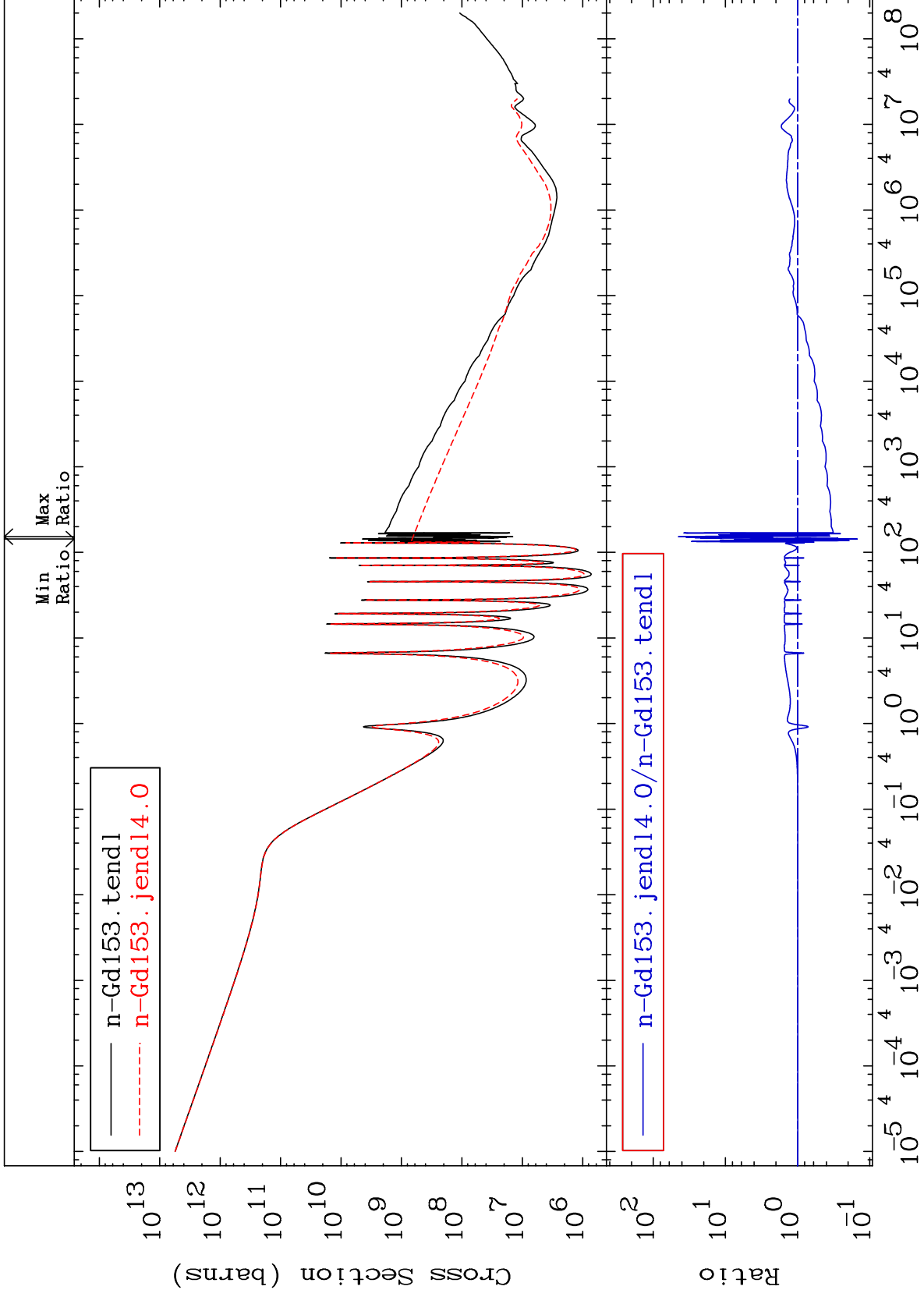
— n-Gd153.jendl4.0/n-Gd153.tendl

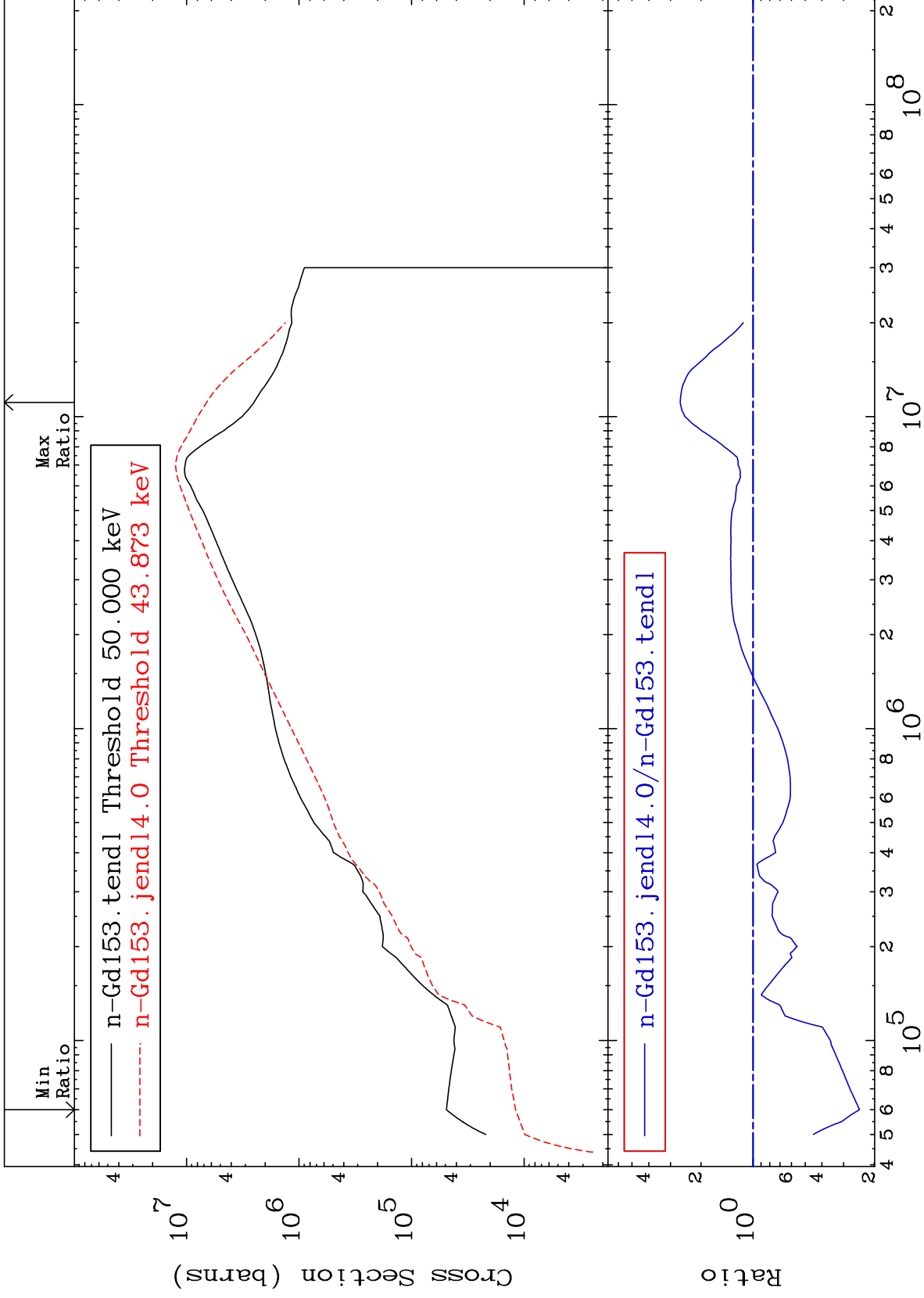
MAT 6428

Kerma elastic
Cross Section

64-Gd-153
-86.43 To 424.1 %



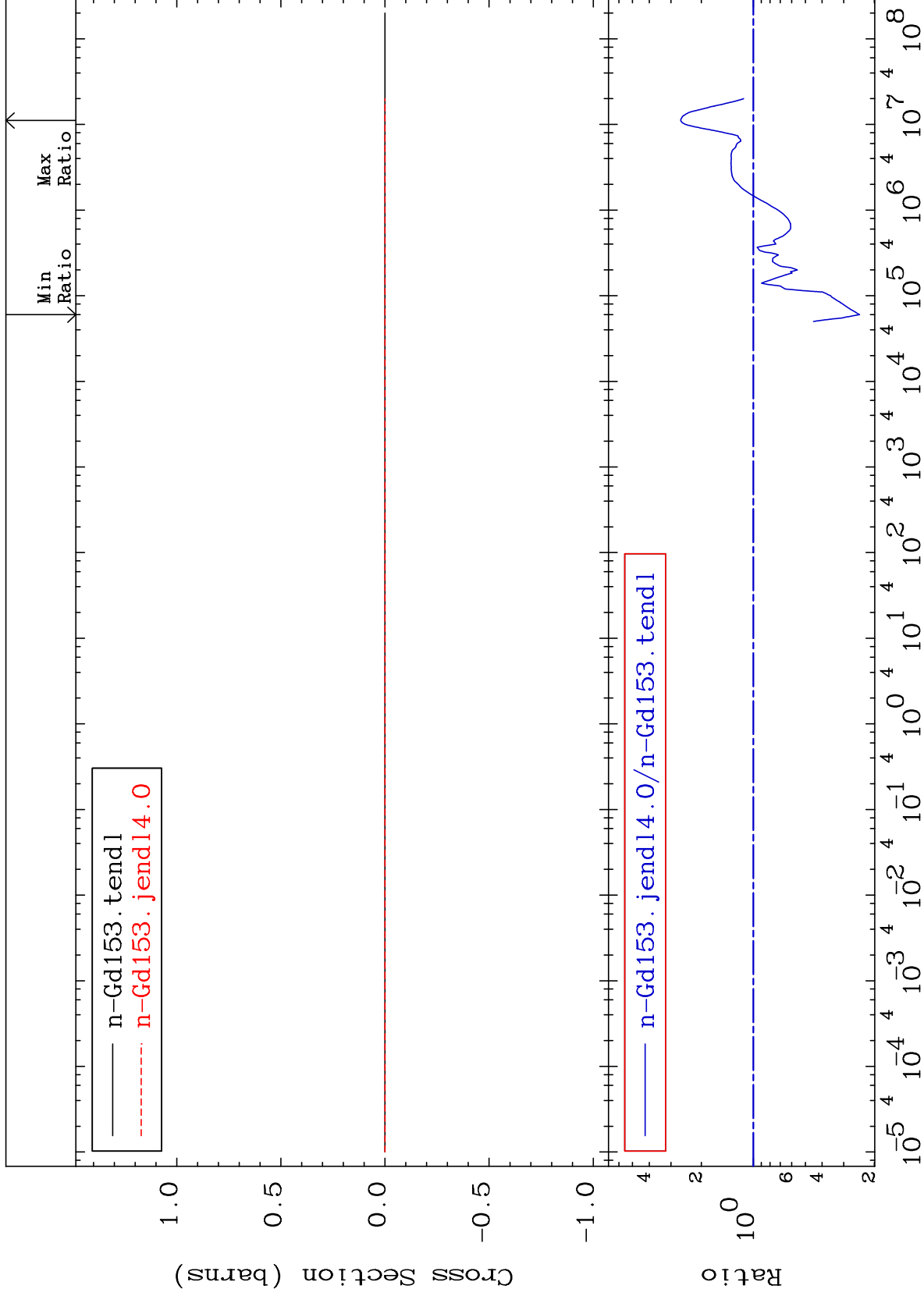




MAT 6428

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

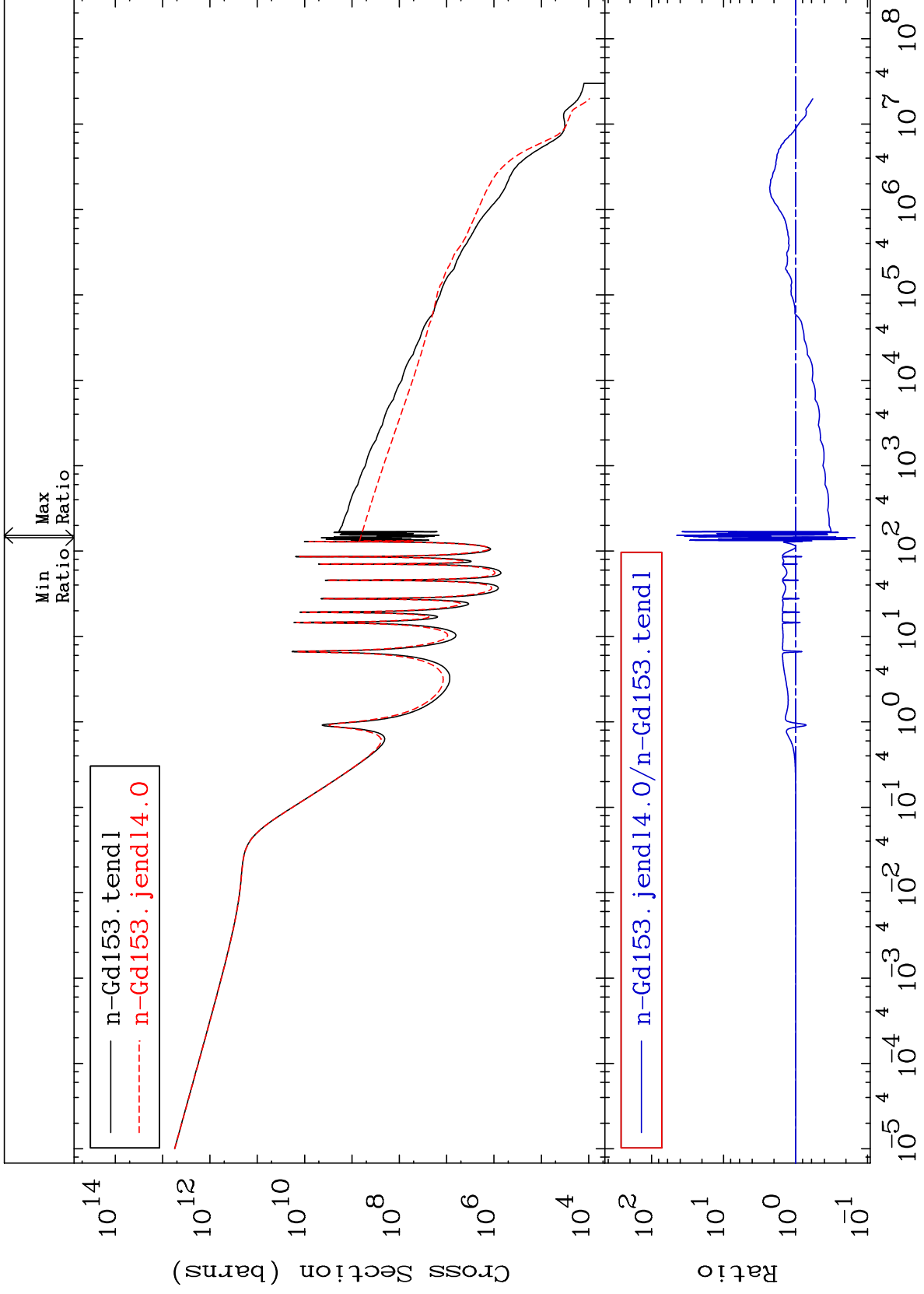
64-Gd-153
-75.68 To 162.9 %



MAT 6428

Kerma capture (mt102)
Cross Section

64-Gd-153
-85.07 To 4354. %



59

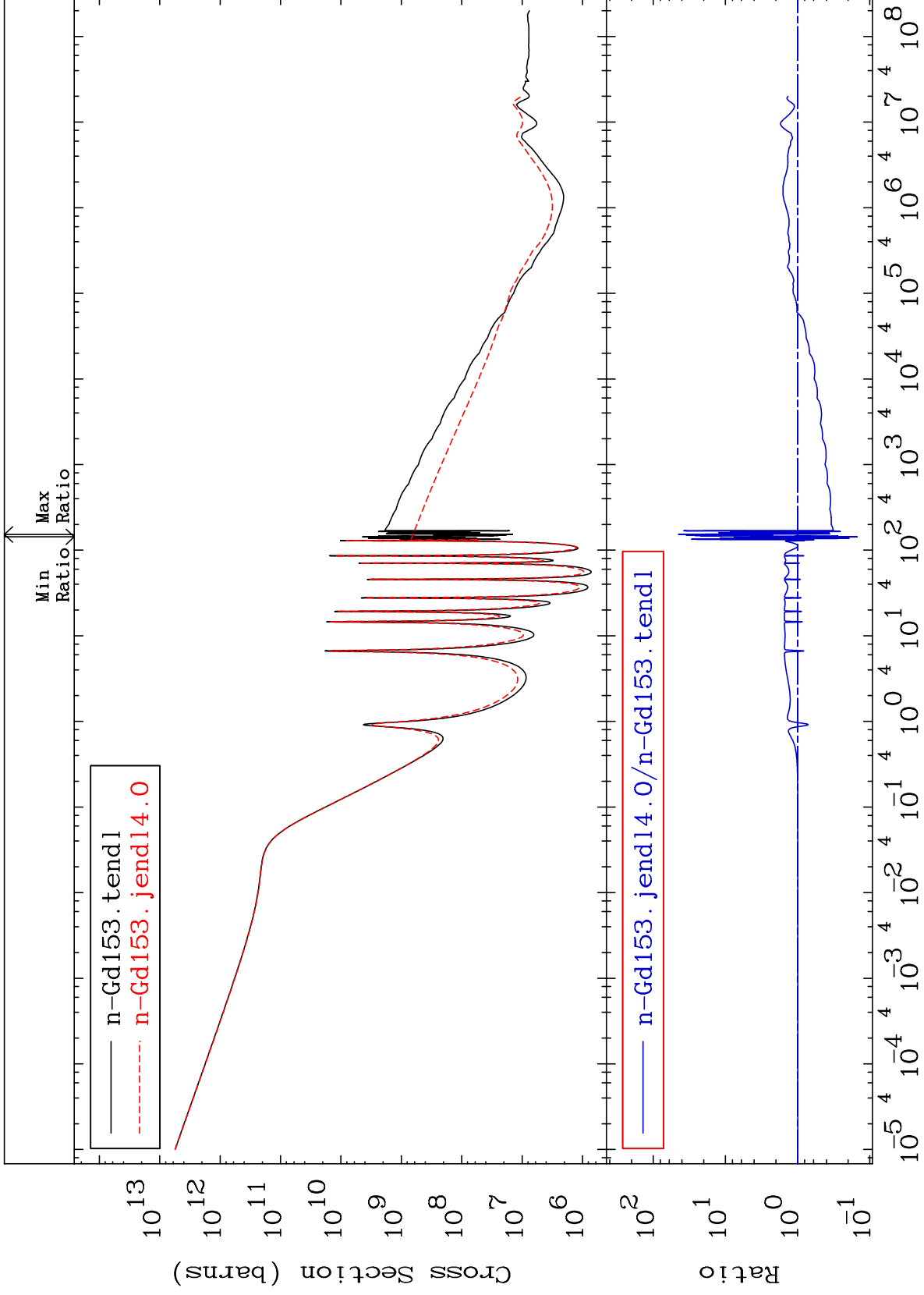
Incident Energy (eV)

64-Gd-153

MAT 6428

Total photon (eV-barns)
Cross Section

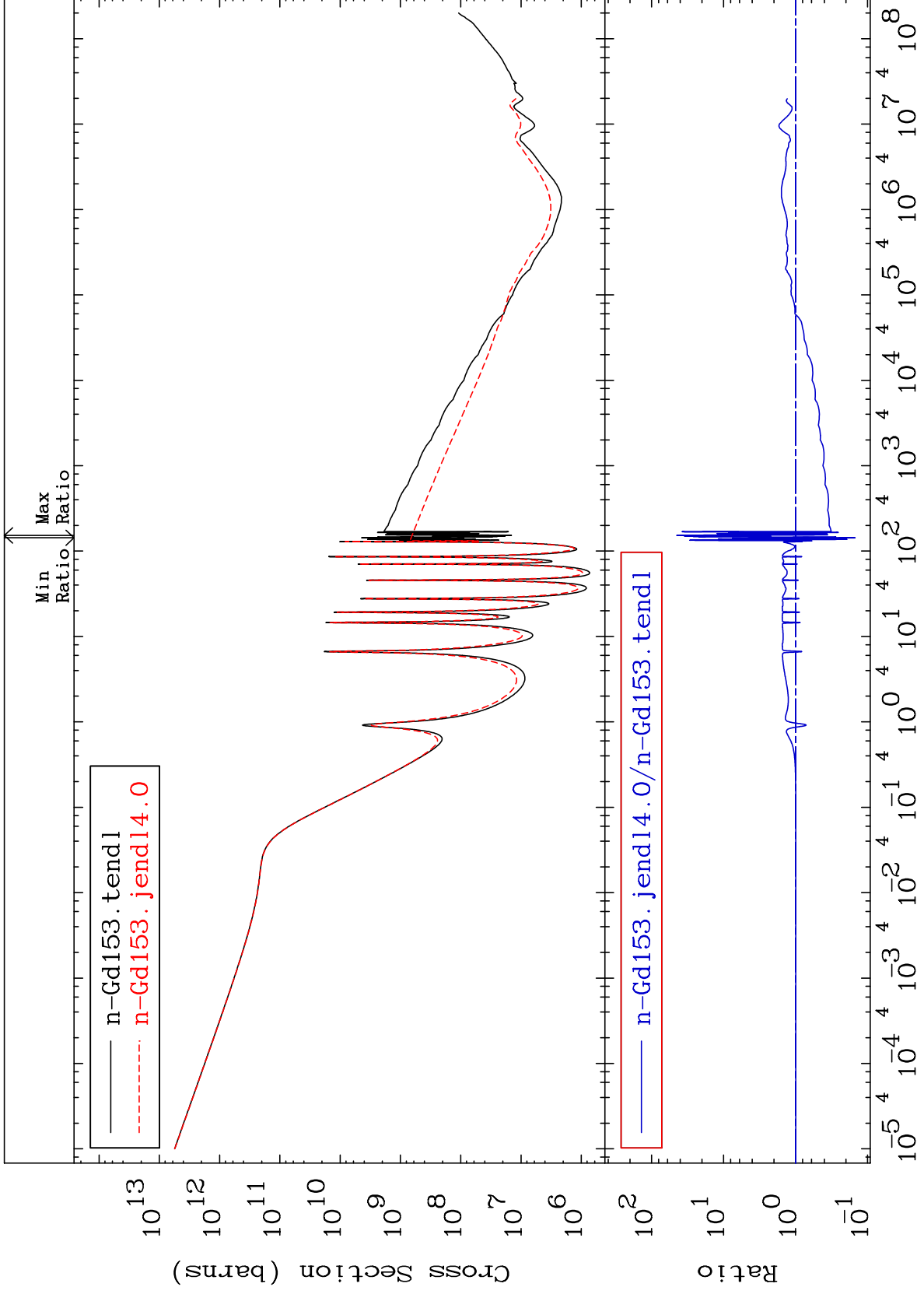
64-Gd-153
-85.07 To 4353. %



60

Incident Energy (eV)

64-Gd-153



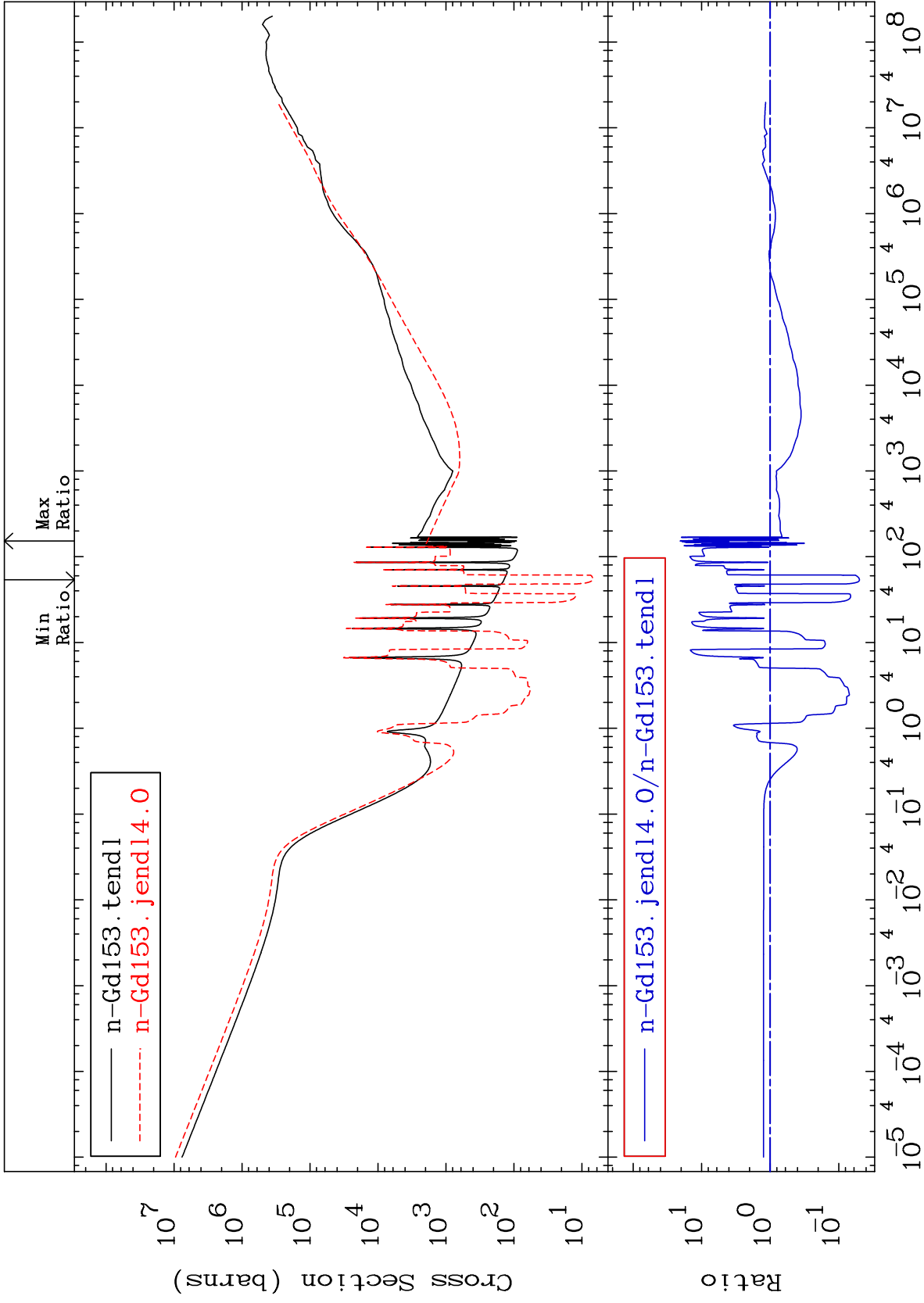
MAT 6428

Dpa total (eV-barns)

64-Gd-153

-95.01 To 1947. %

Cross Section



62

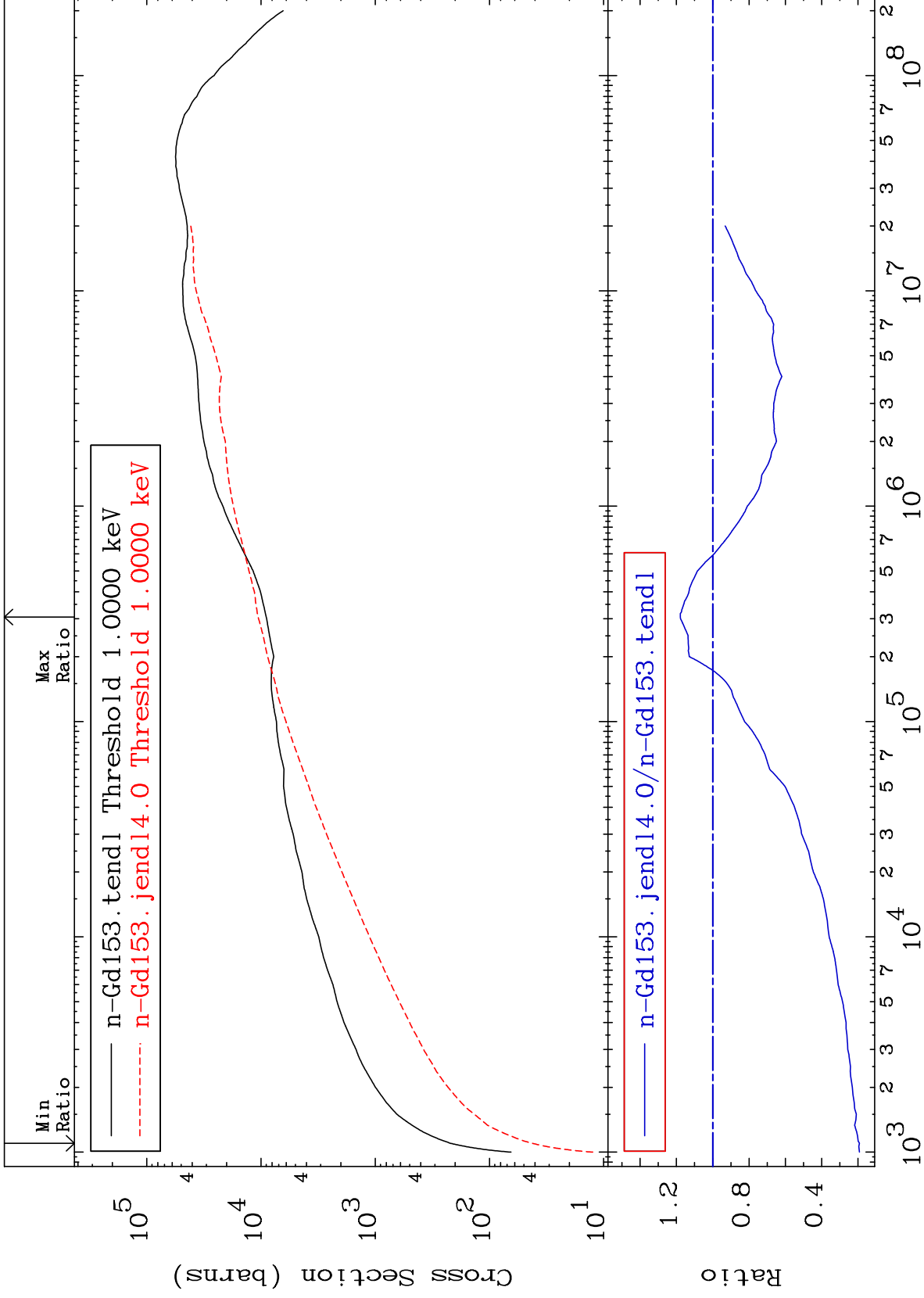
Incident Energy (eV)

64-Gd-153

MAT 6428

Dpa elastic (mt2)
Cross Section

64-Gd-153
-80.78 To 17.83 %



63

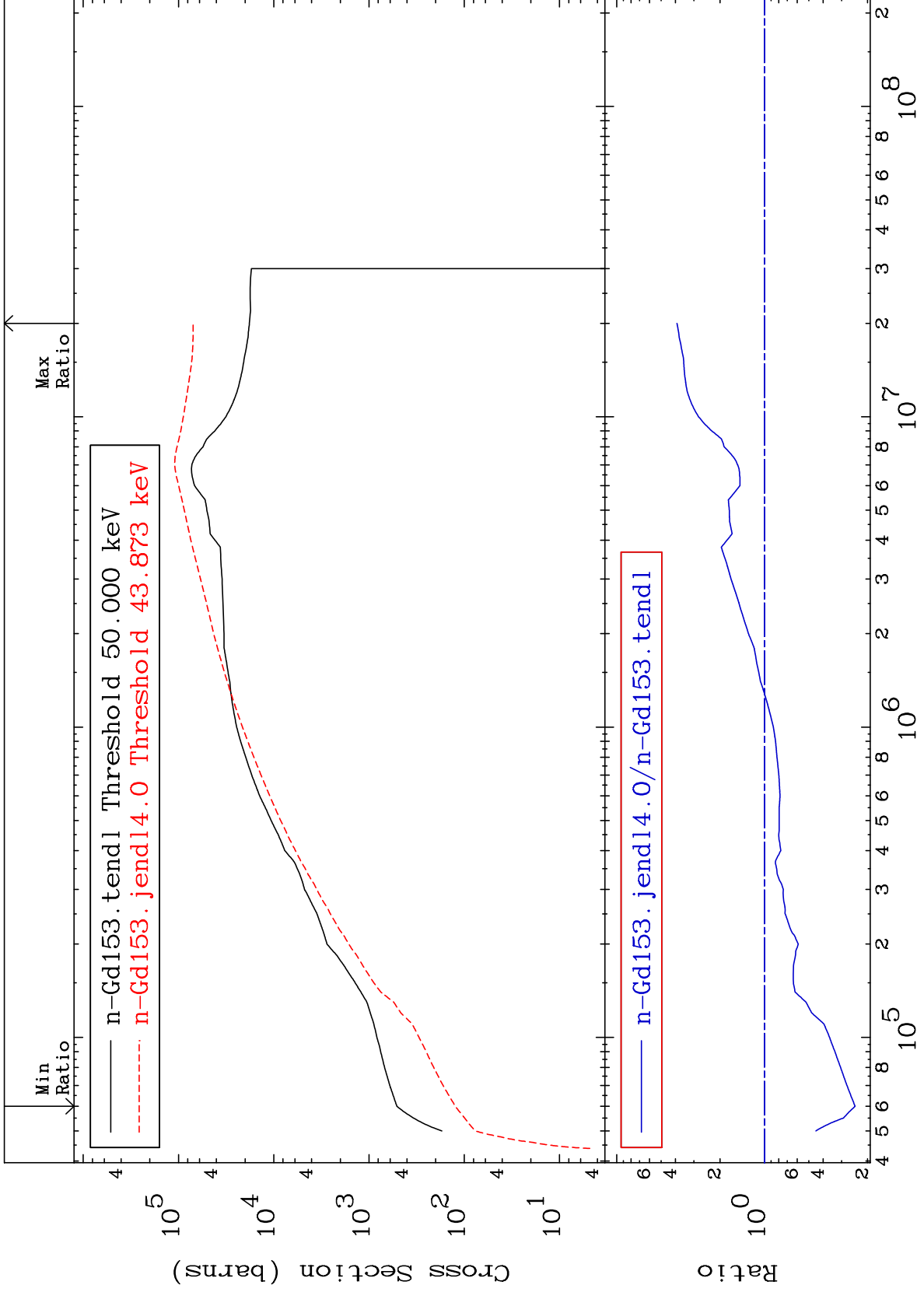
Incident Energy (eV)

64-Gd-153

MAT 6428

Dpa inelastic (mt51-91)
Cross Section

64-Gd-153
-75.68 To 291.0 %



64

Incident Energy (eV)

64-Gd-153

Cross Section

