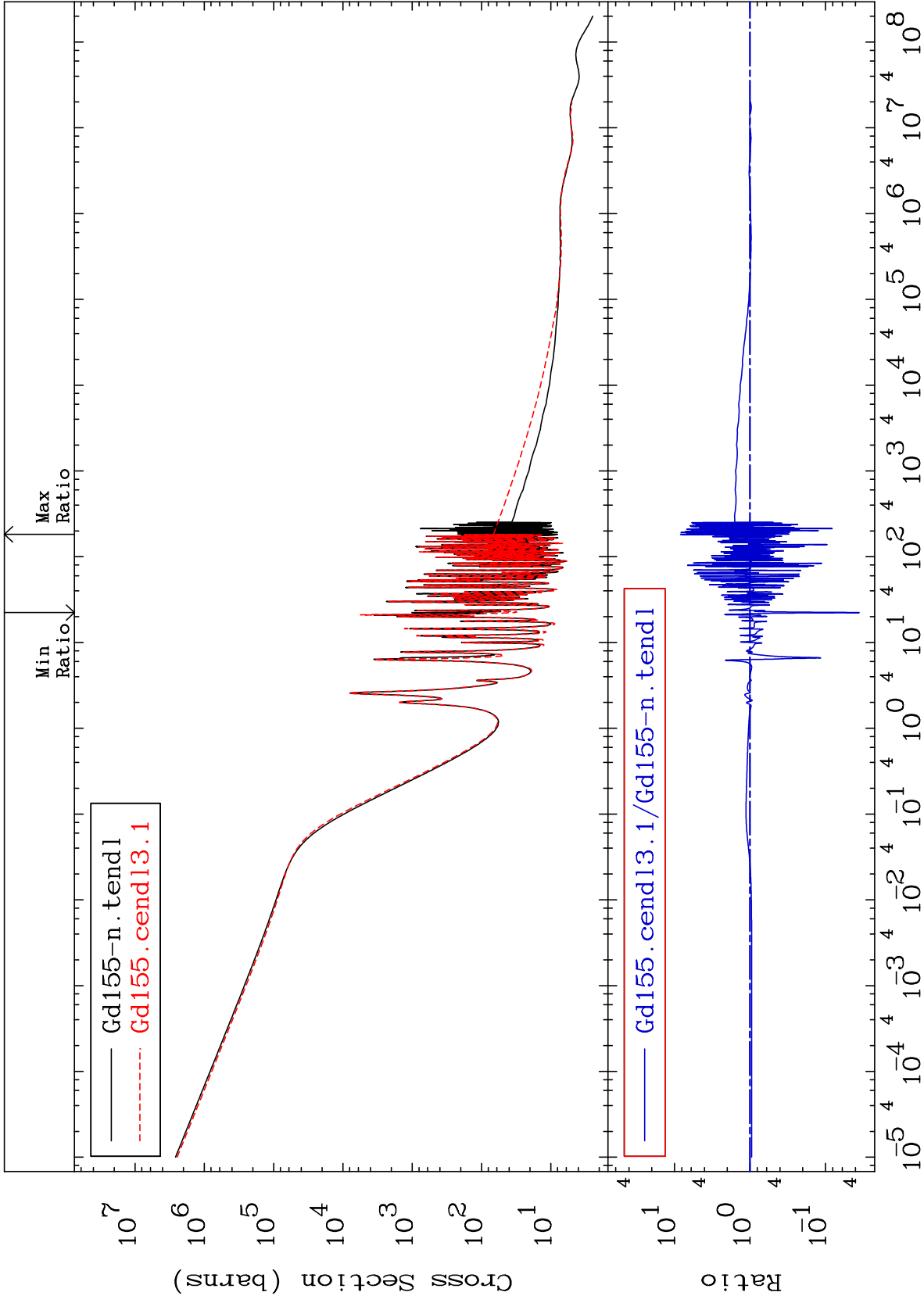


MAT 6434

Total Cross Section  
64-Gd-155  
-96.45 To 734.8 %

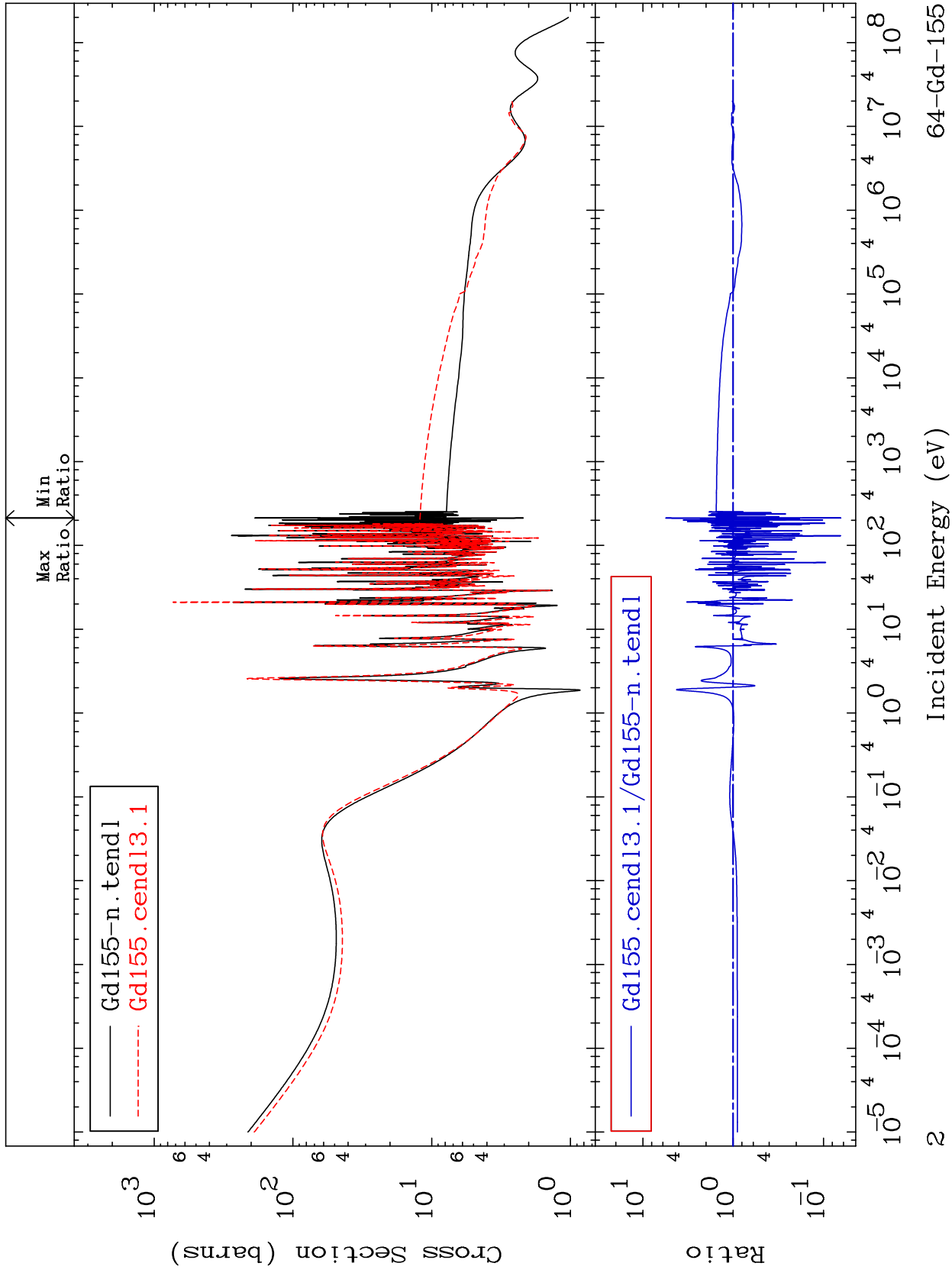


64-Gd-155

MAT 6434

Elastic  
Cross Section

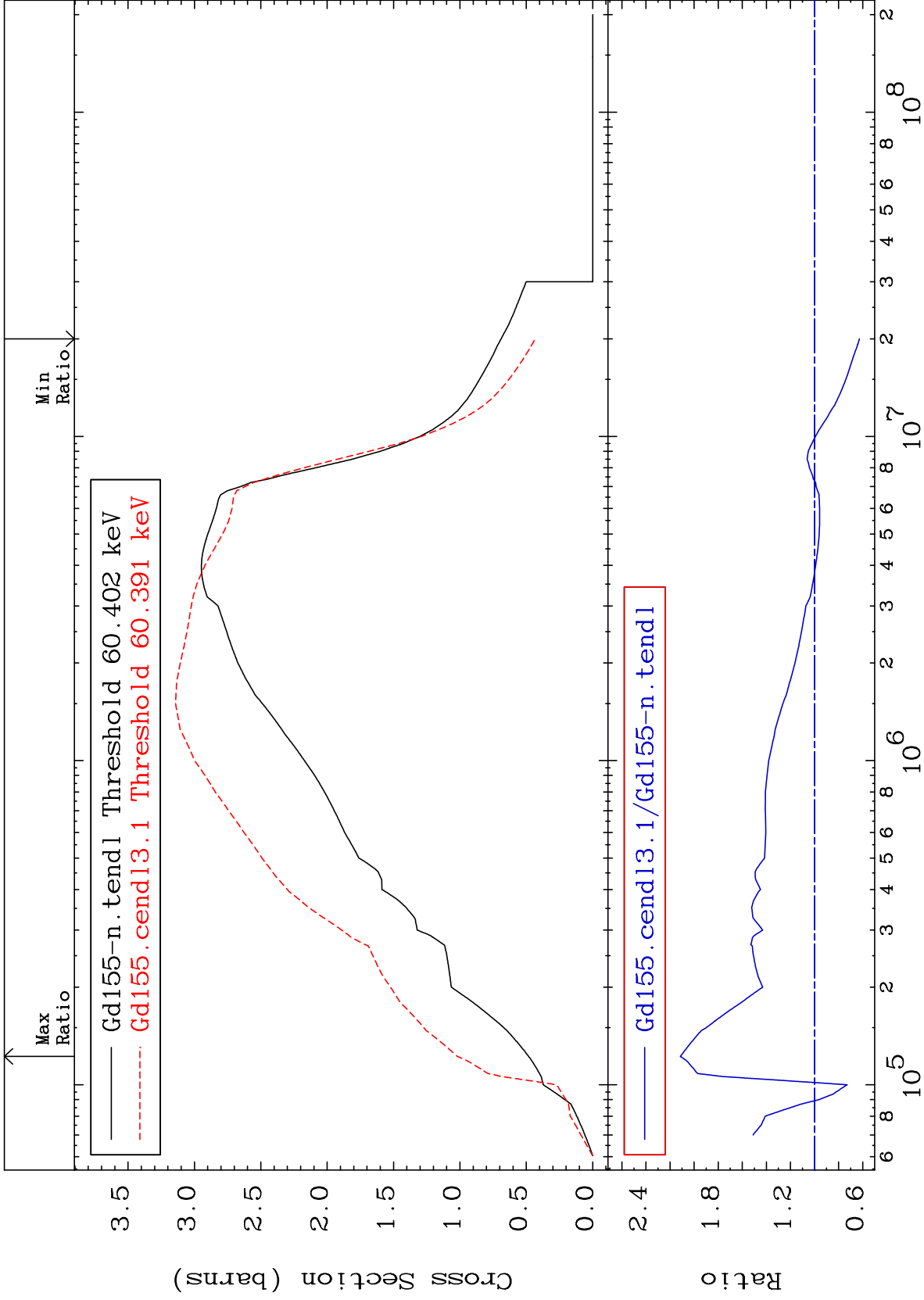
64-Gd-155  
-93.57 To 455.5 %



MAT 6434

Inelastic  
Cross Section

64-Gd-155  
-37.29 To 111.4 %



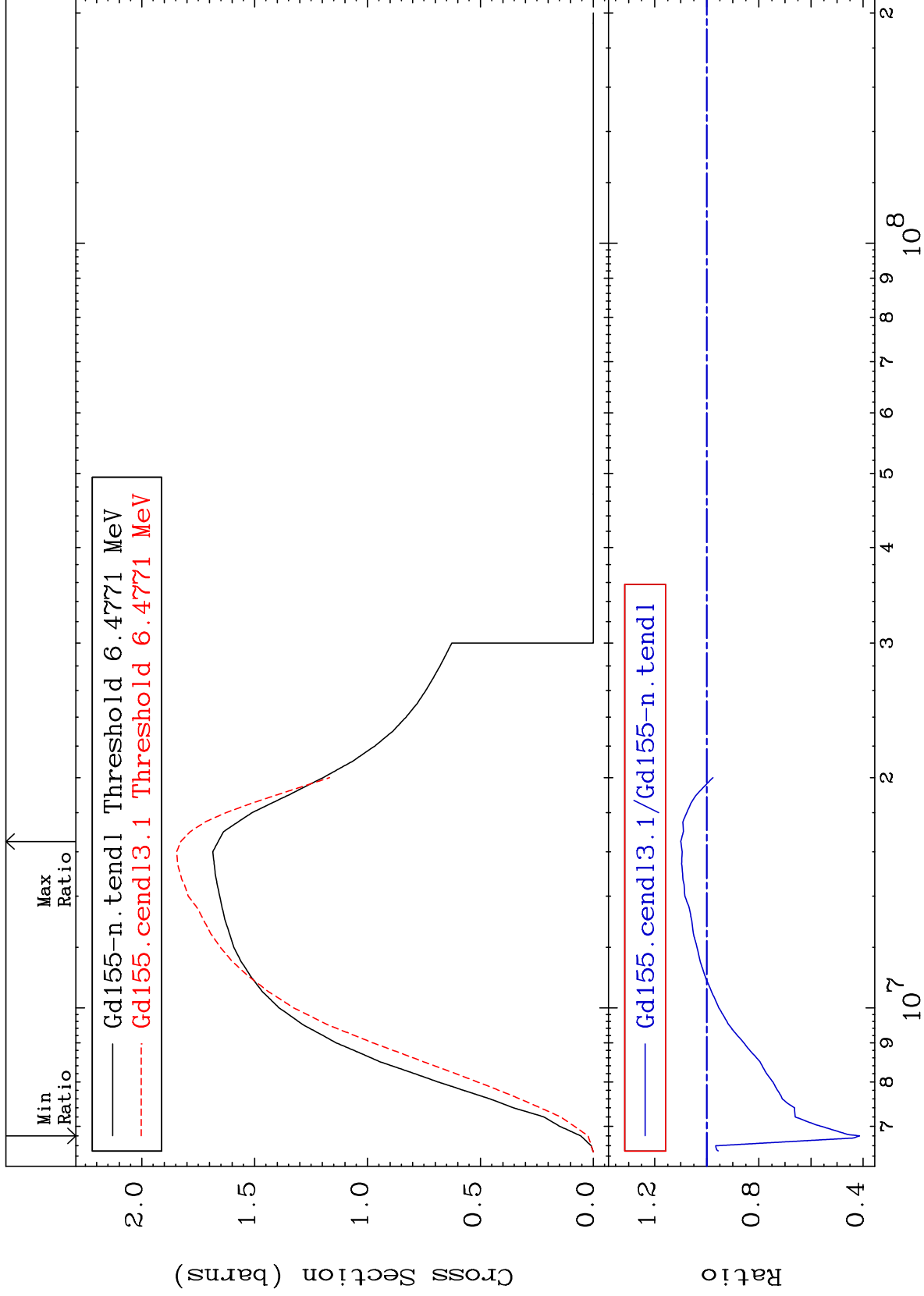
MAT 6434

(n,2n)

64-Gd-155

Cross Section

-58.64 To 9.988 %



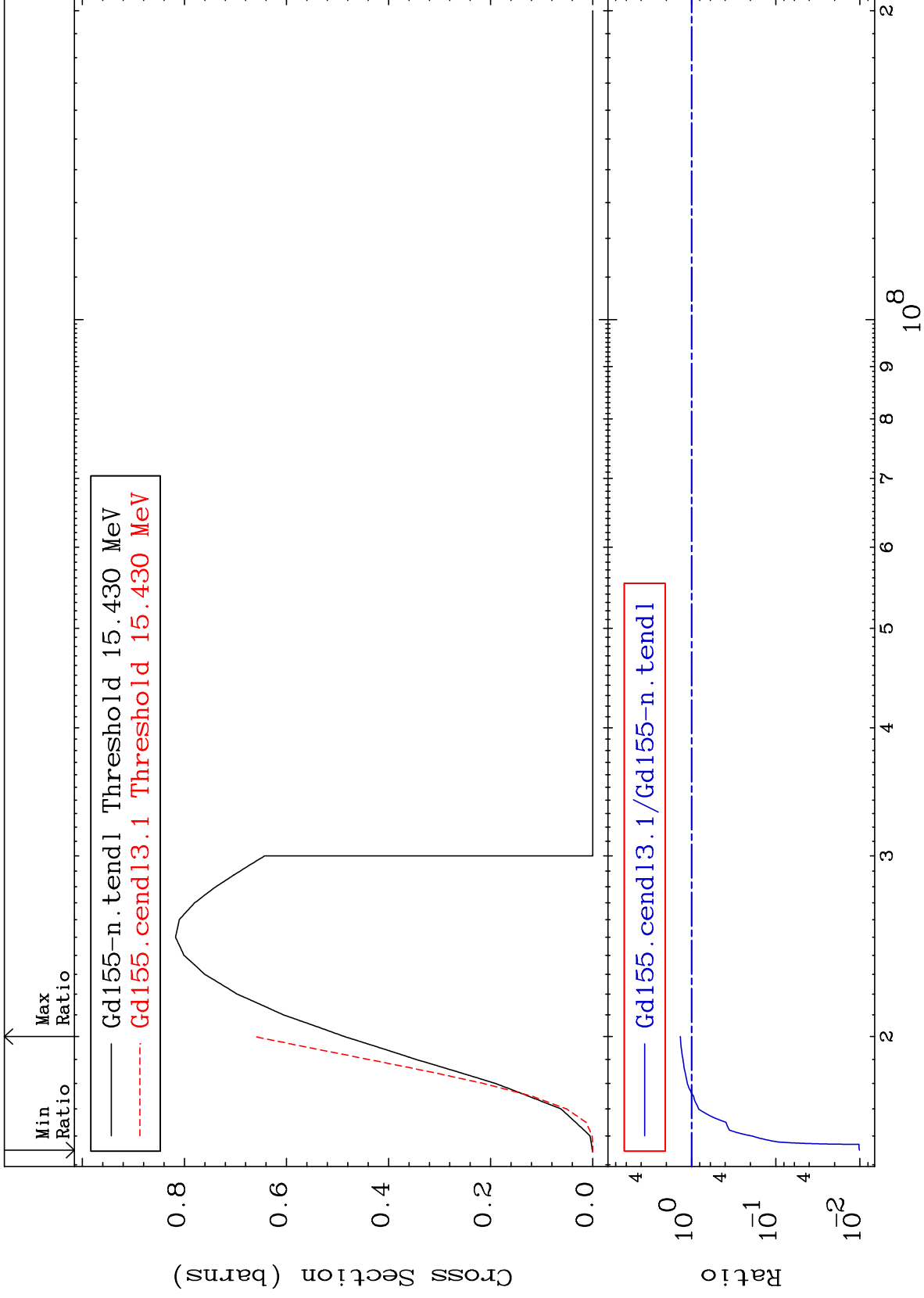
4

Incident Energy (eV)

64-Gd-155

Cross Section

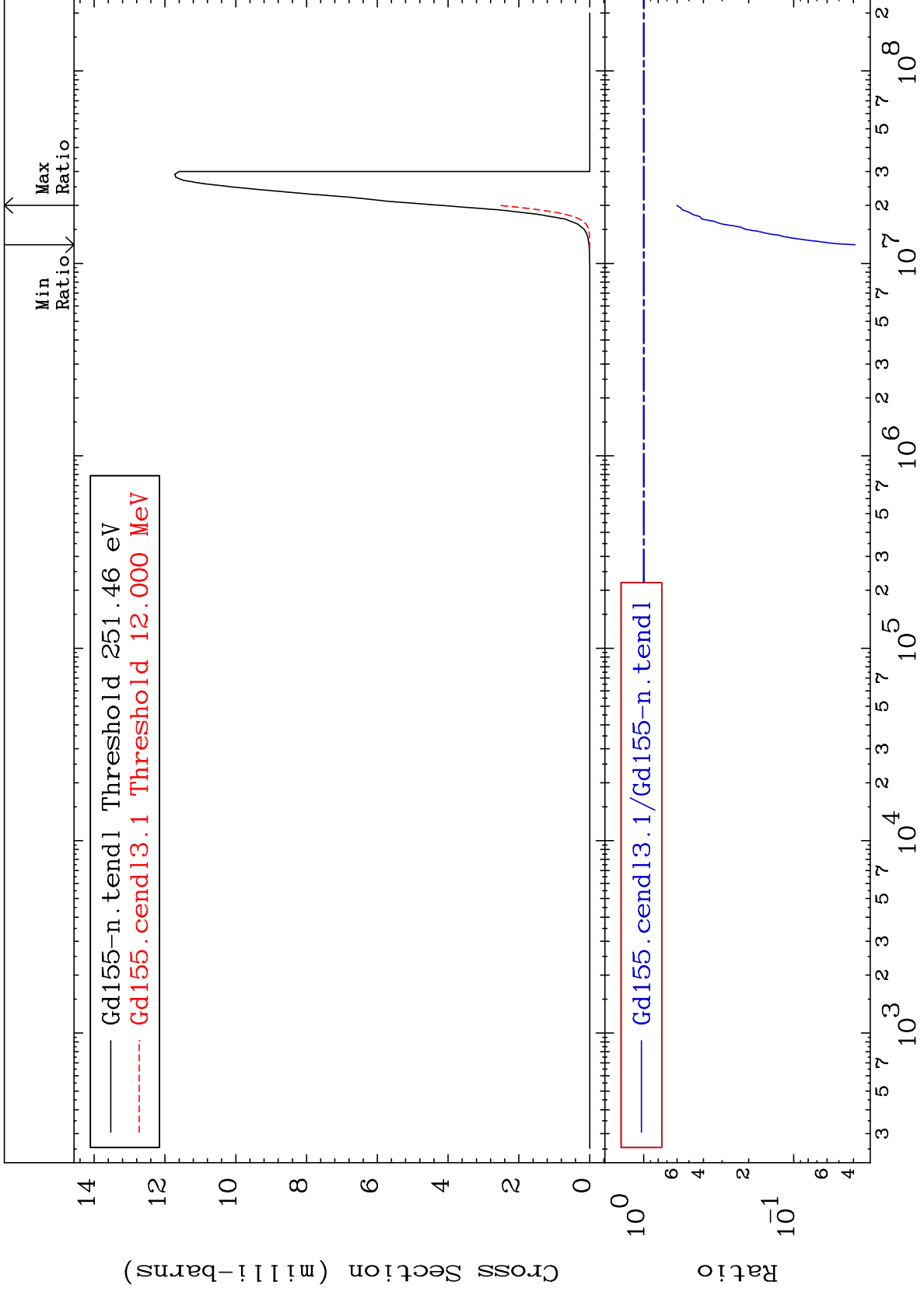
-98.99 To 36.22 %



MAT 6434

(n, n')  $\alpha$   
Cross Section

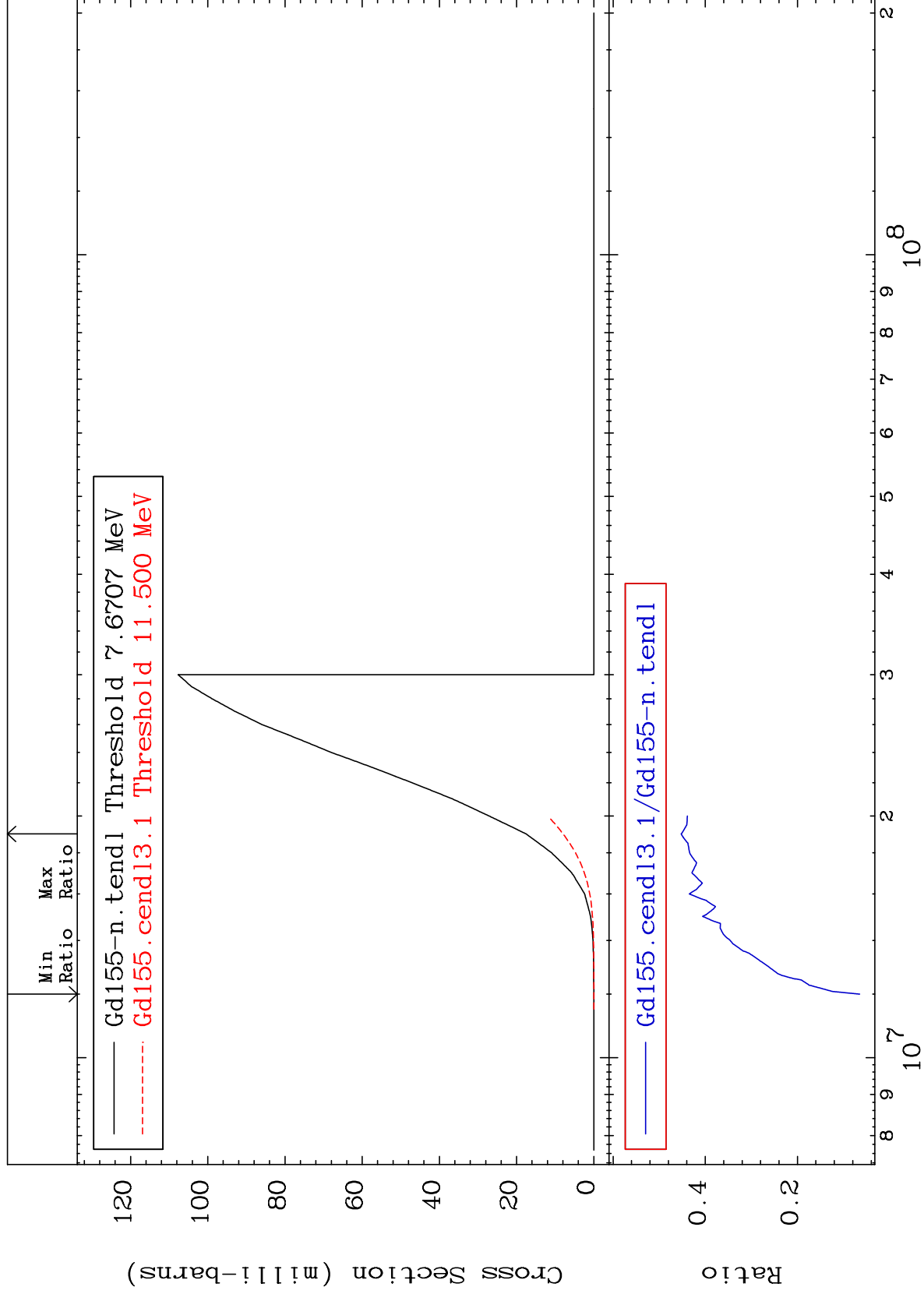
64-Gd-155  
-96.10 To -39.94%



MAT 6434

(n,n') p  
Cross Section

64-Gd-155  
-93.50 To -54.78%



7

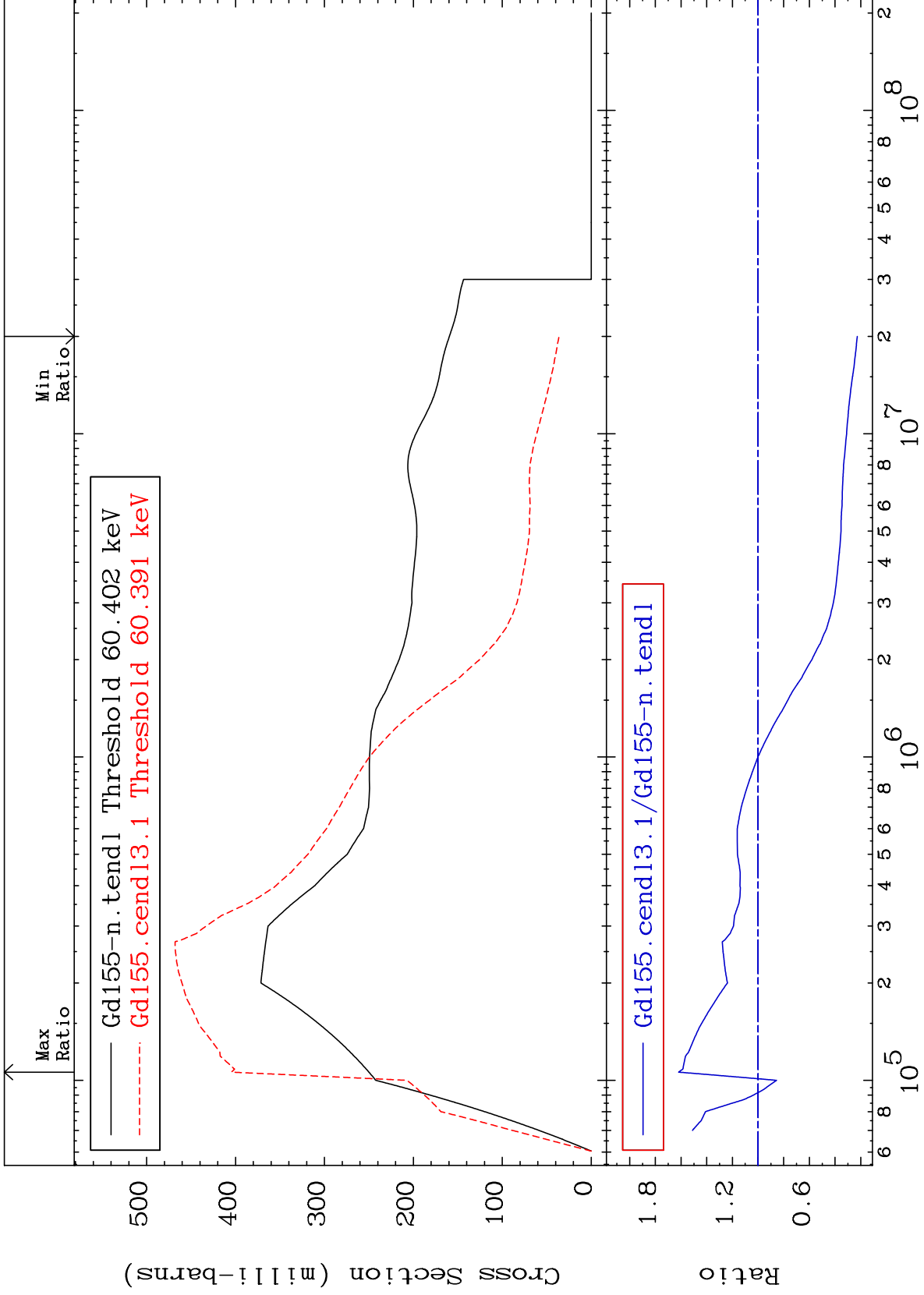
Incident Energy (eV)

64-Gd-155

MAT 6434

60.01 keV (n,n') Level  
Cross Section

64-Gd-155  
-77.29 To 61.88 %

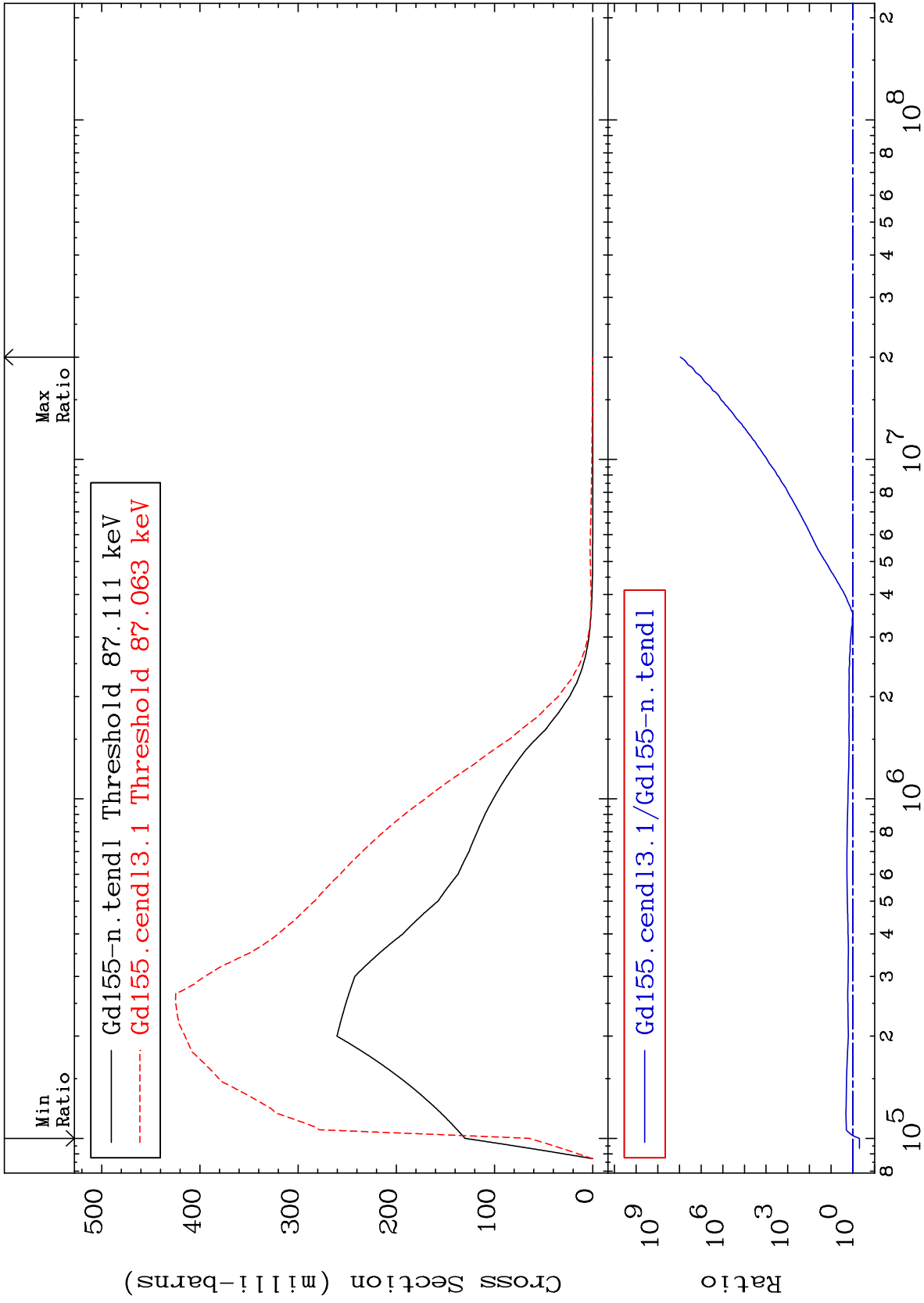




MAT 6434

86.55 keV (n,n') Level  
Cross Section

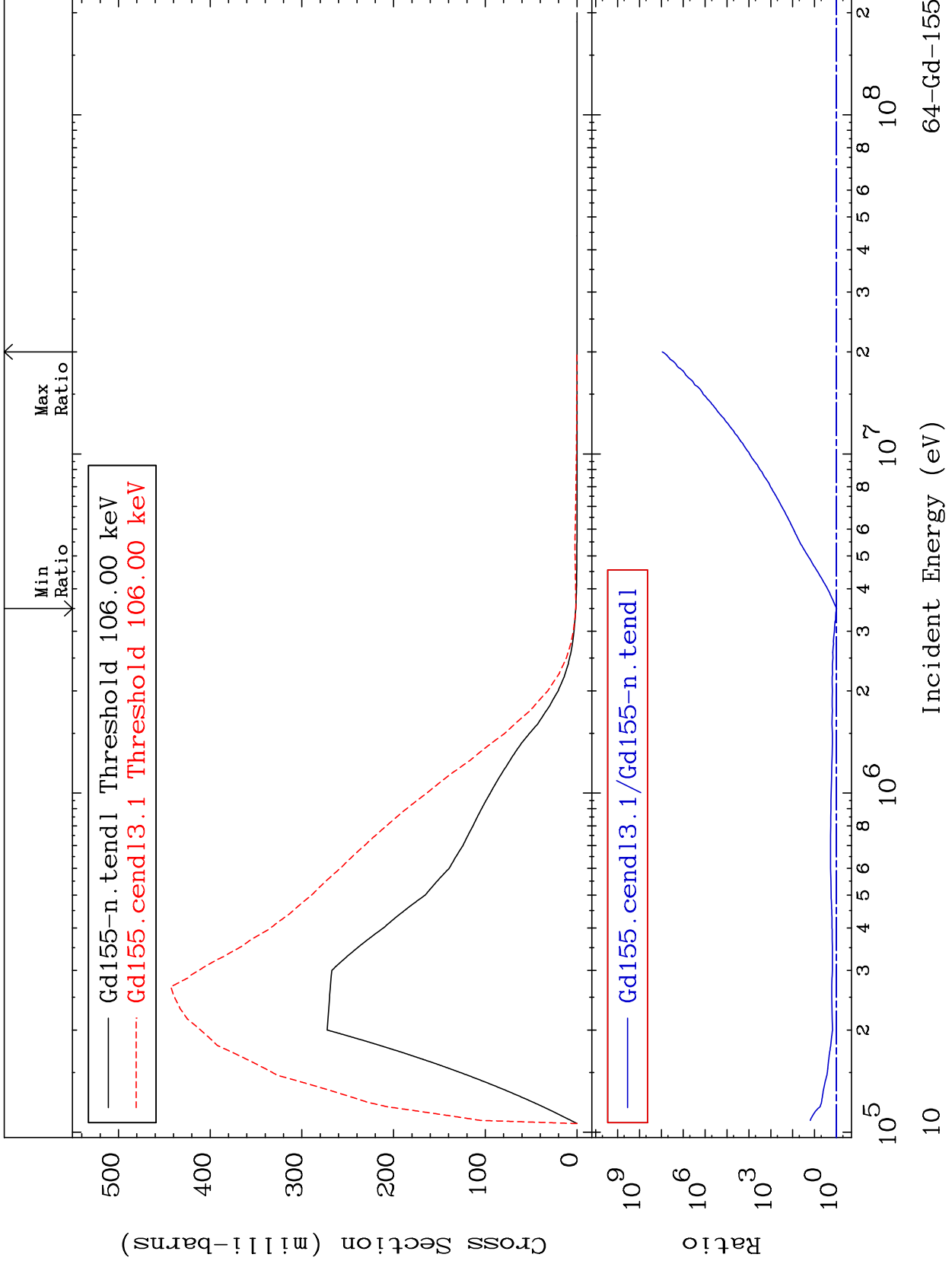
64-Gd-155  
-50.56 To 9999. %



MAT 6434

105.3 keV (n,n') Level  
Cross Section

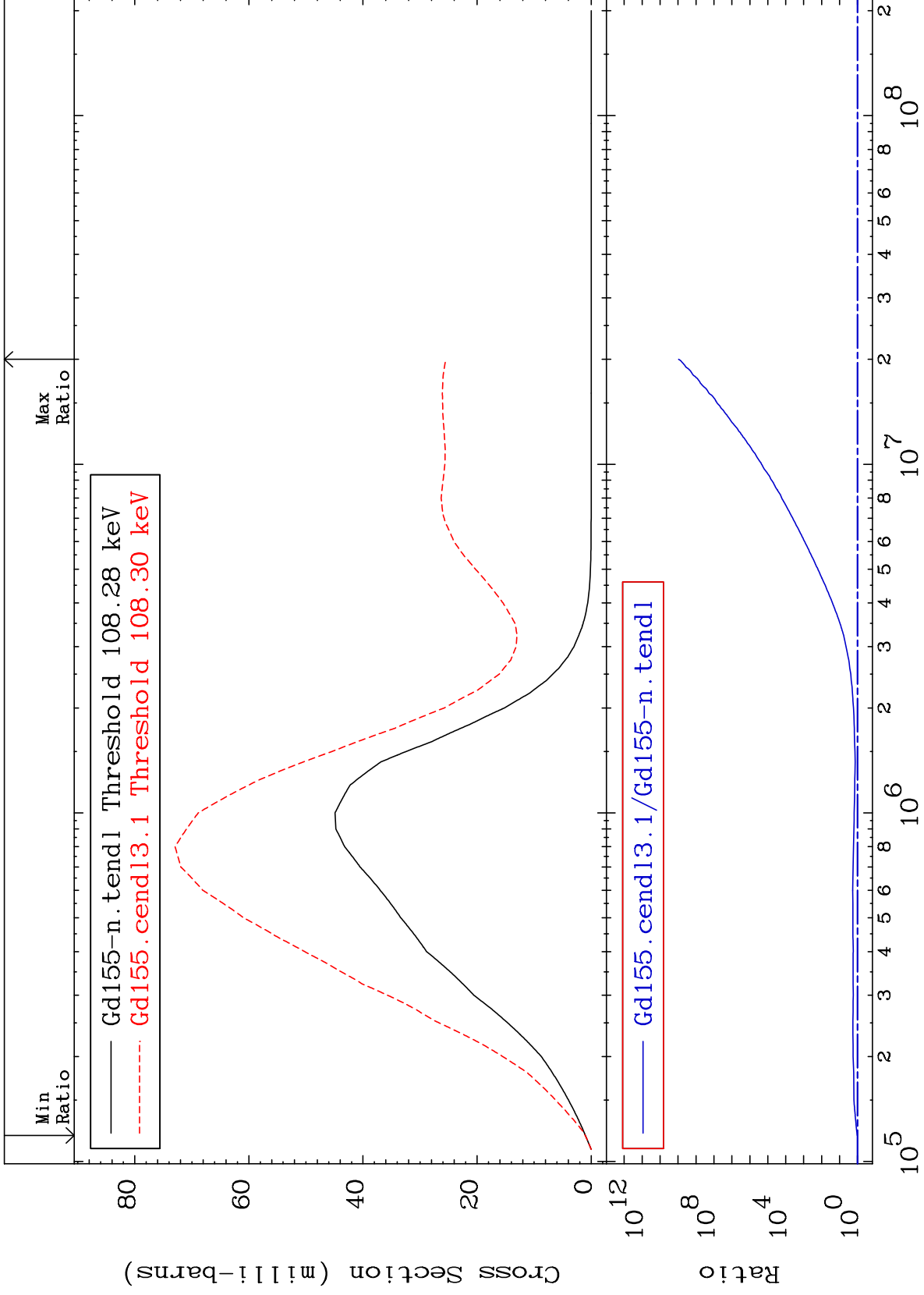
64-Gd-155  
-2.226 To 9999. %



MAT 6434

107.6 keV (n,n') Level  
Cross Section

64-Gd-155  
3.610 To 9999. %



11

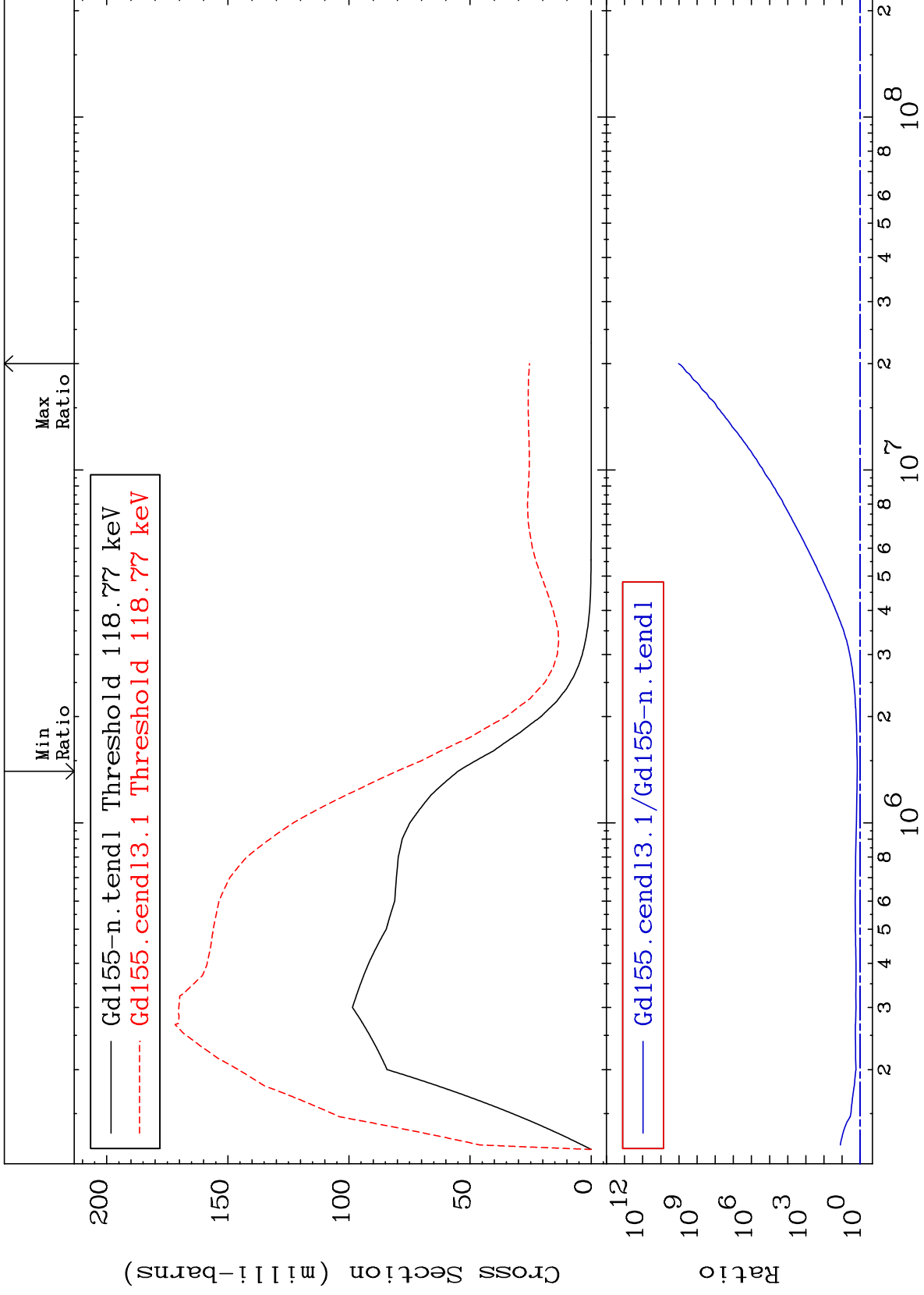
Incident Energy (eV)

64-Gd-155

MAT 6434

118.0 keV (n,n') Level  
Cross Section

64-Gd-155  
45.87 To 9999. %



12

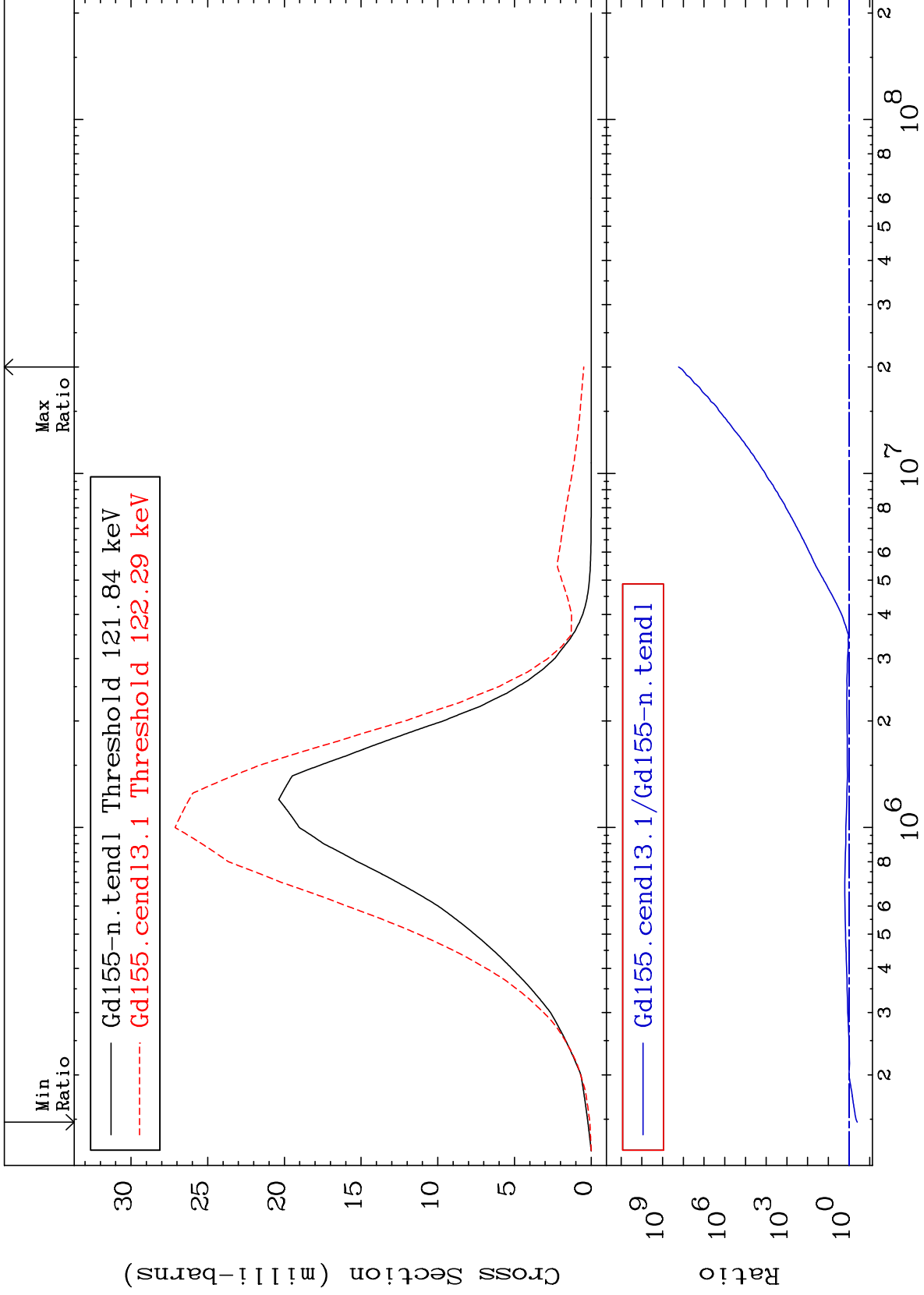
Incident Energy (eV)

64-Gd-155

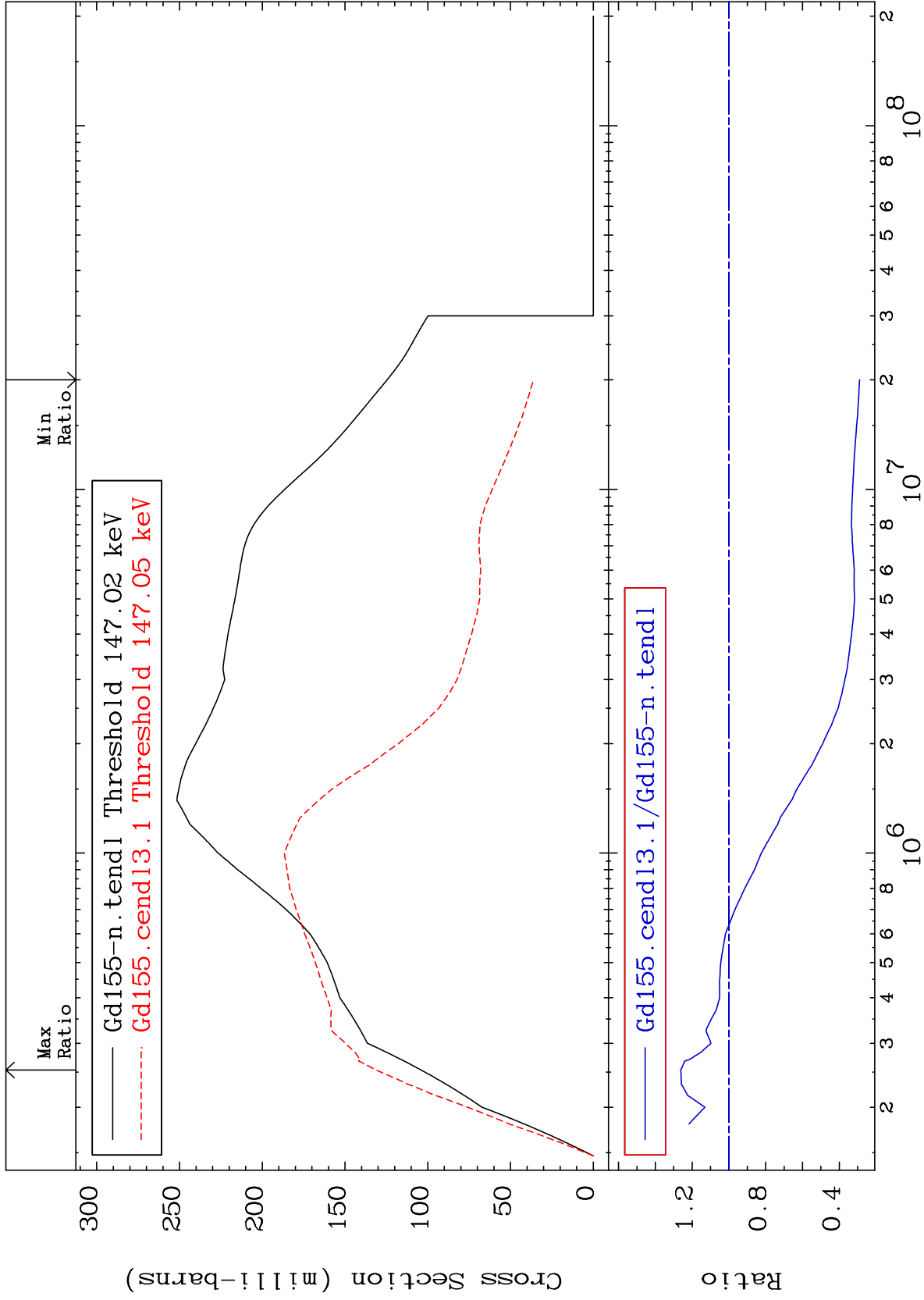
MAT 6434

121.1 keV (n,n') Level  
Cross Section

64-Gd-155  
-59.61 To 9999. %



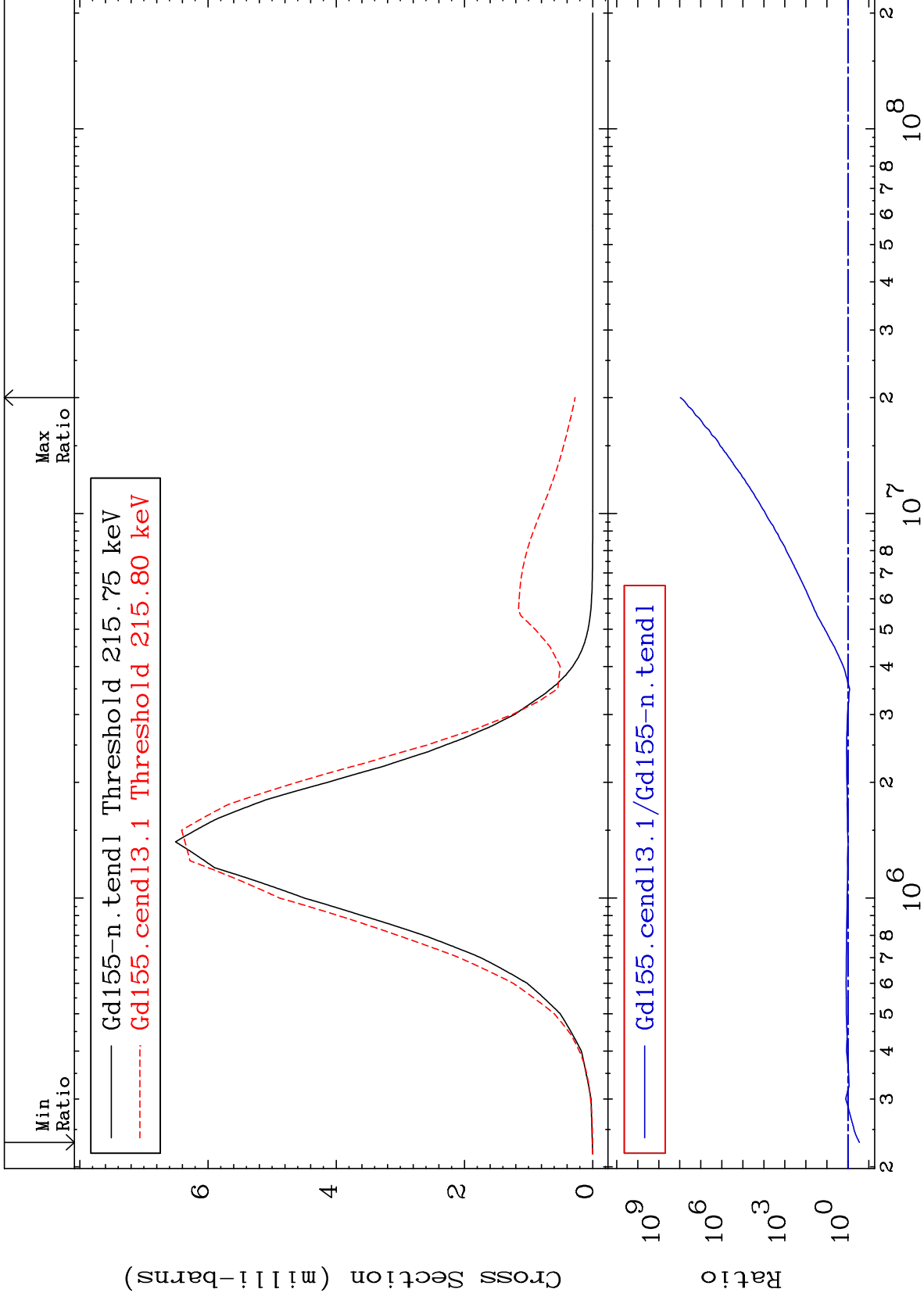
MAT 6434      146.1 keV (n,n') Level      64-Gd-155  
 Cross Section      -71.02 To 26.17 %



MAT 6434

214.4 keV (n,n') Level  
Cross Section

64-Gd-155  
-71.80 To 9999. %



15

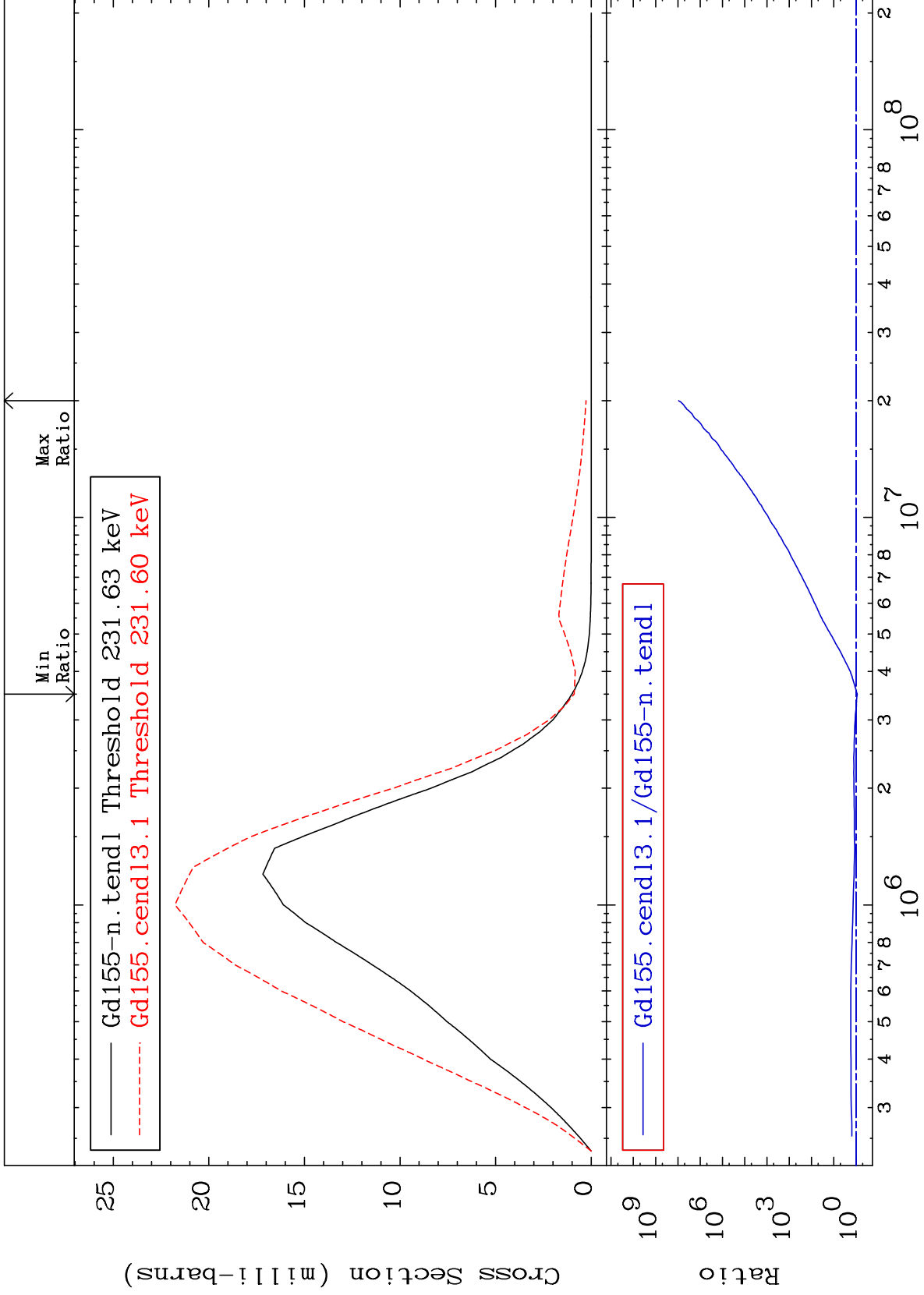
Incident Energy (eV)

64-Gd-155

MAT 6434

230.1 keV (n,n') Level  
Cross Section

64-Gd-155  
-11.92 To 9999. %



16

Incident Energy (eV)

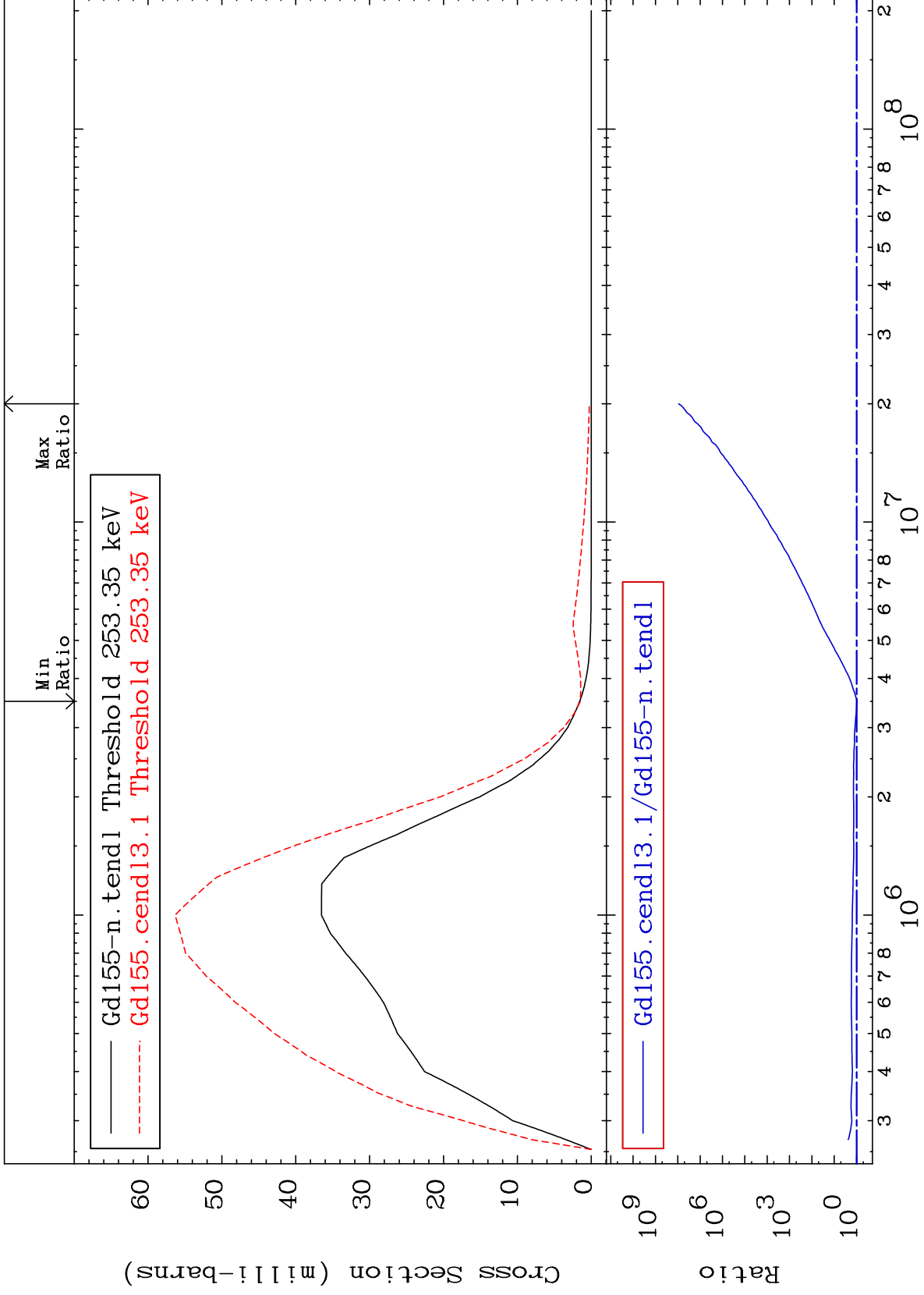
64-Gd-155



MAT 6434

251.7 keV (n,n') Level  
Cross Section

64-Gd-155  
-7.241 To 9999. %



17

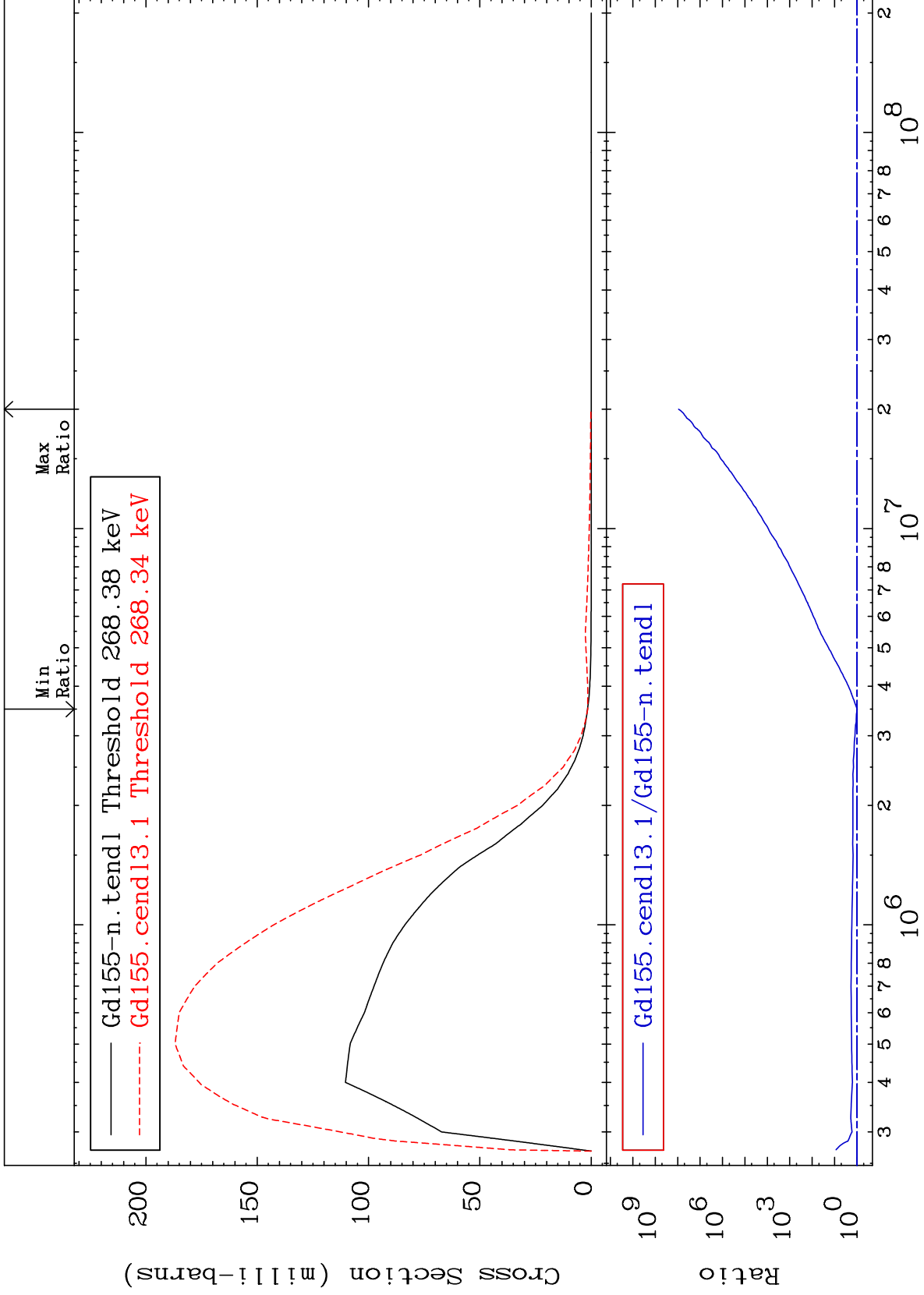
Incident Energy (eV)

64-Gd-155

MAT 6434

266.6 keV (n,n') Level  
Cross Section

64-Gd-155  
-2.935 To 9999. %



18

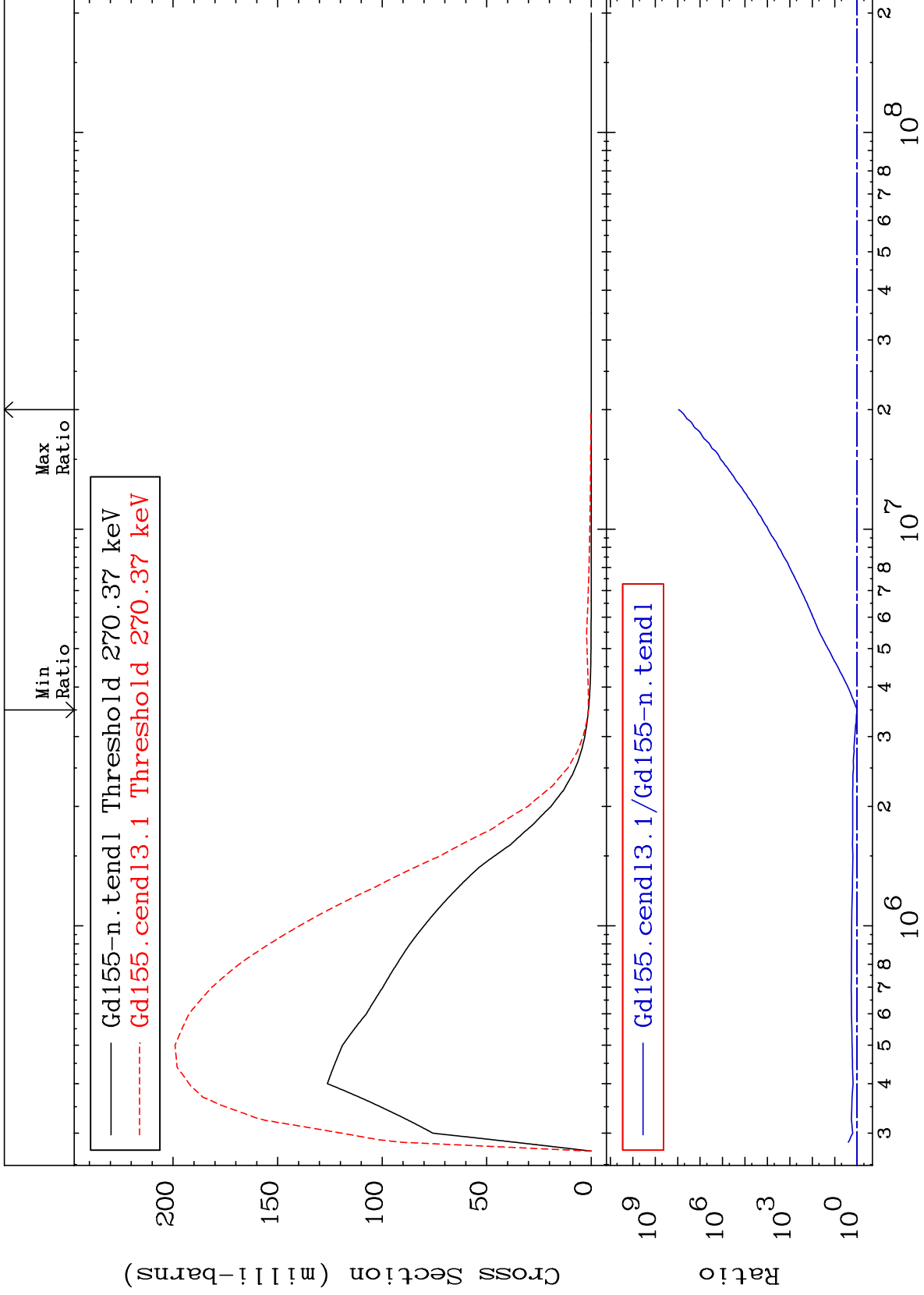
Incident Energy (eV)

64-Gd-155

MAT 6434

268.6 keV (n,n') Level  
Cross Section

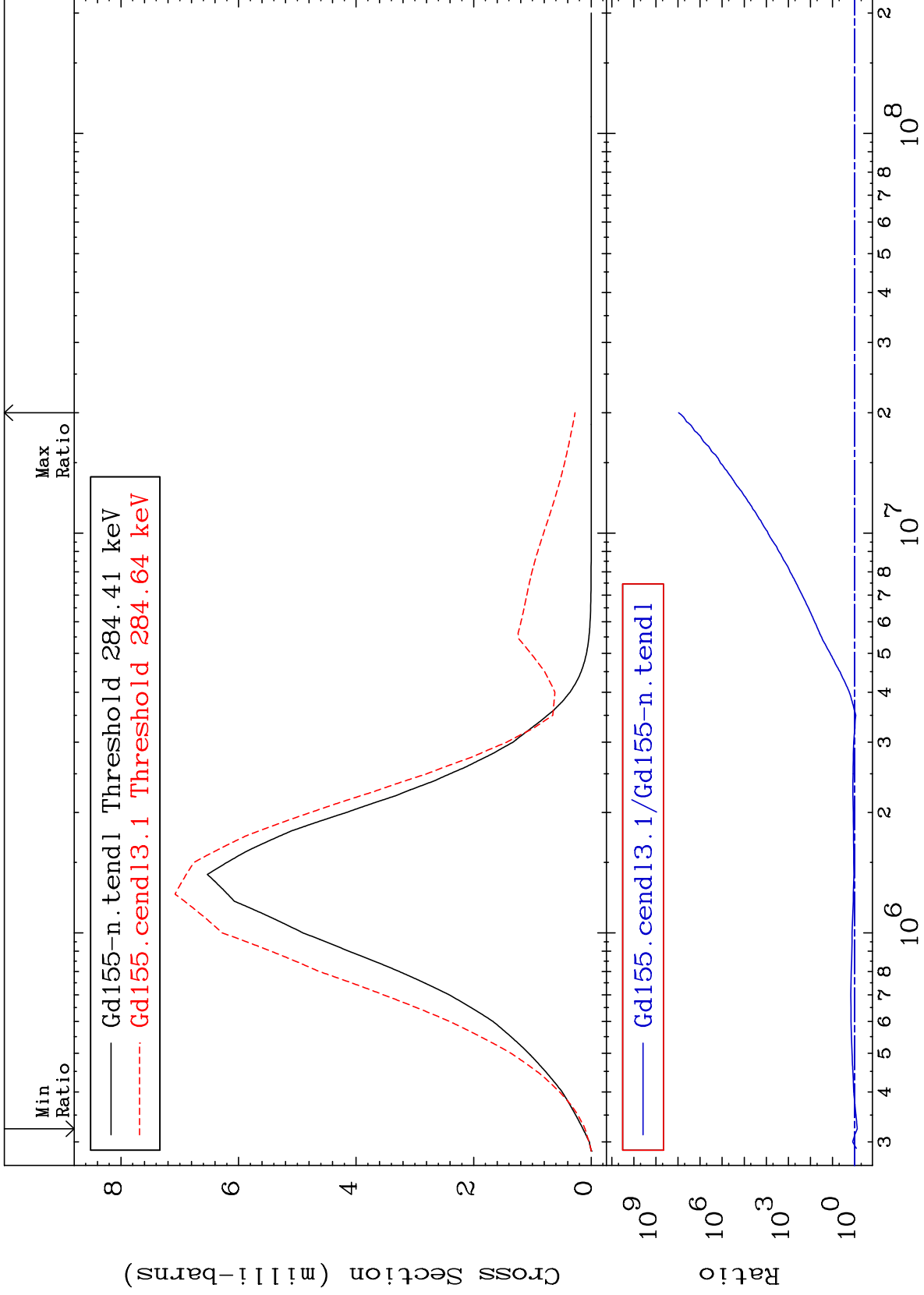
64-Gd-155  
-1.143 To 9999. %



MAT 6434

282.6 keV (n,n') Level  
Cross Section

64-Gd-155  
-24.88 To 9999. %



20

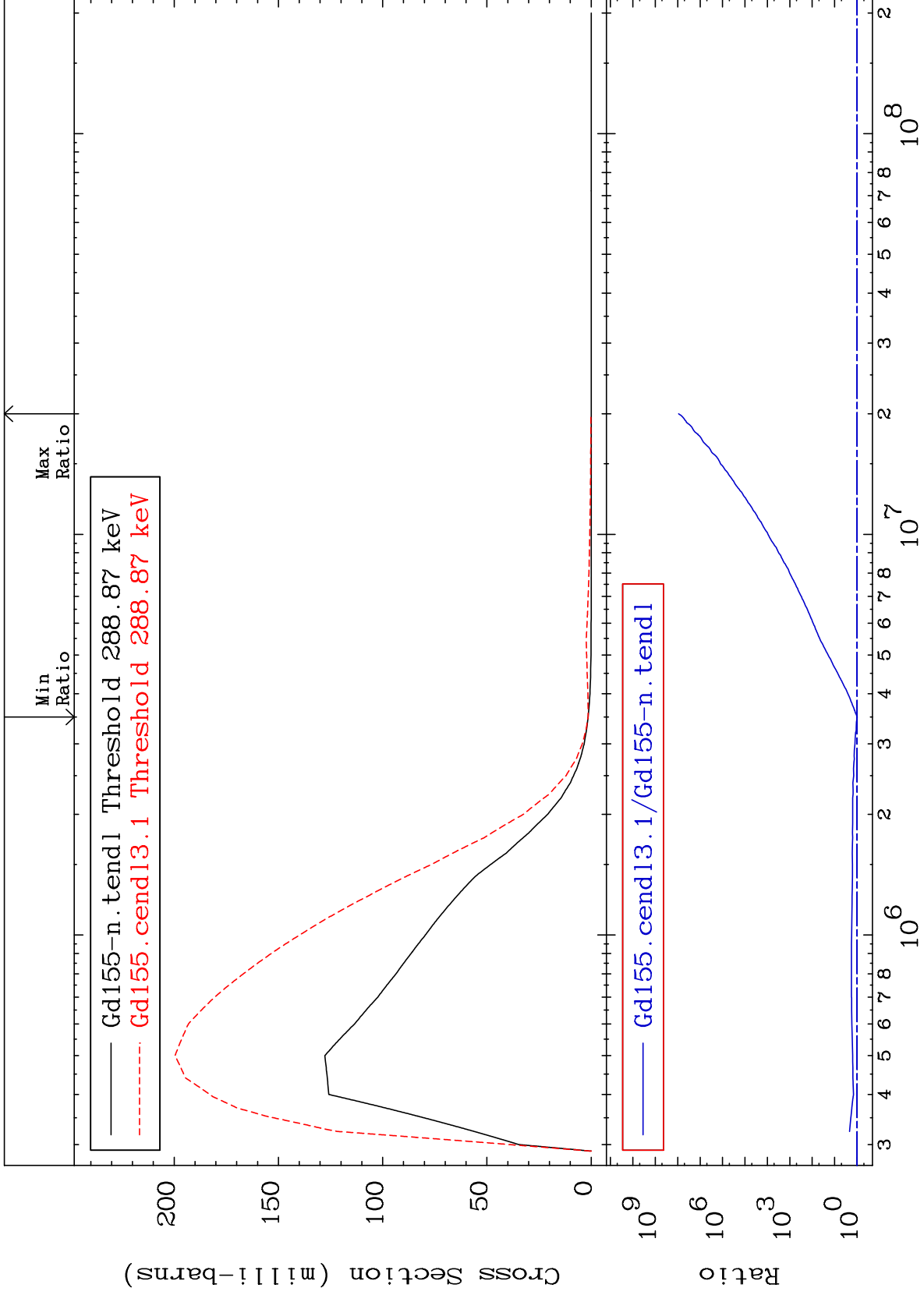
Incident Energy (eV)

64-Gd-155

MAT 6434

287.0 keV (n,n') Level  
Cross Section

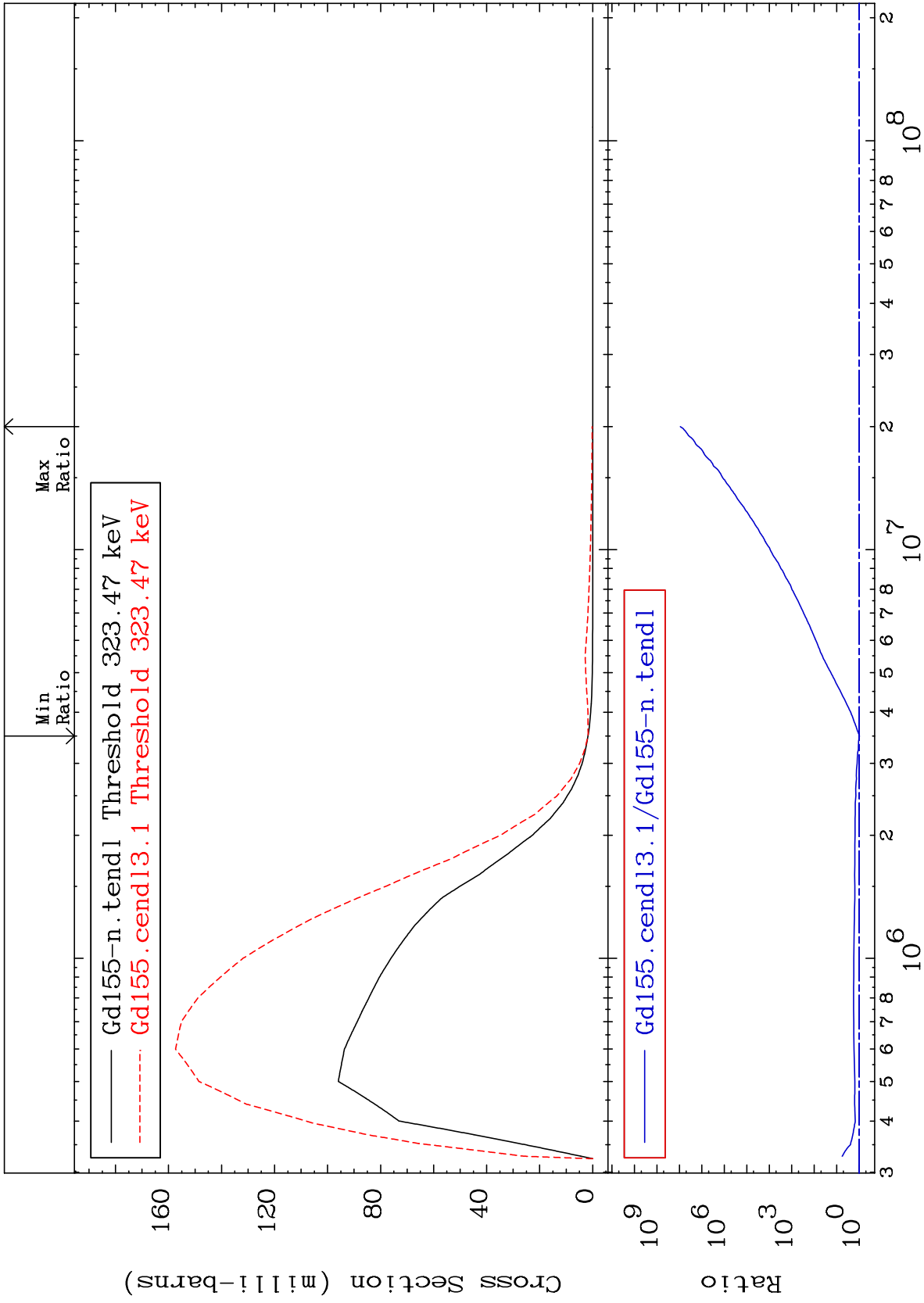
64-Gd-155  
-1.997 To 9999. %



MAT 6434

321.4 keV (n,n') Level  
Cross Section

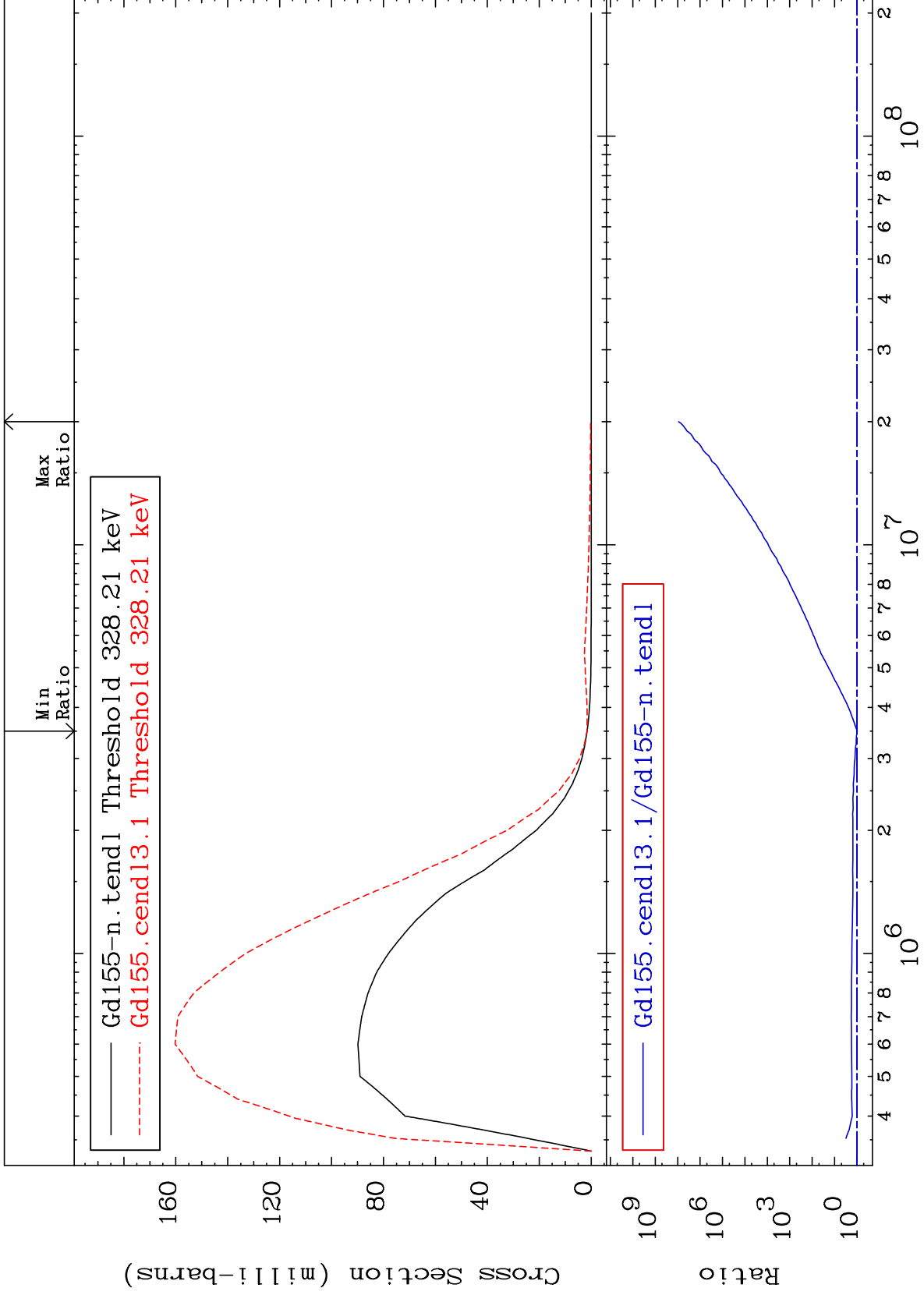
64-Gd-155  
-2.842 To 9999. %



MAT 6434

326.1 keV (n,n') Level  
Cross Section

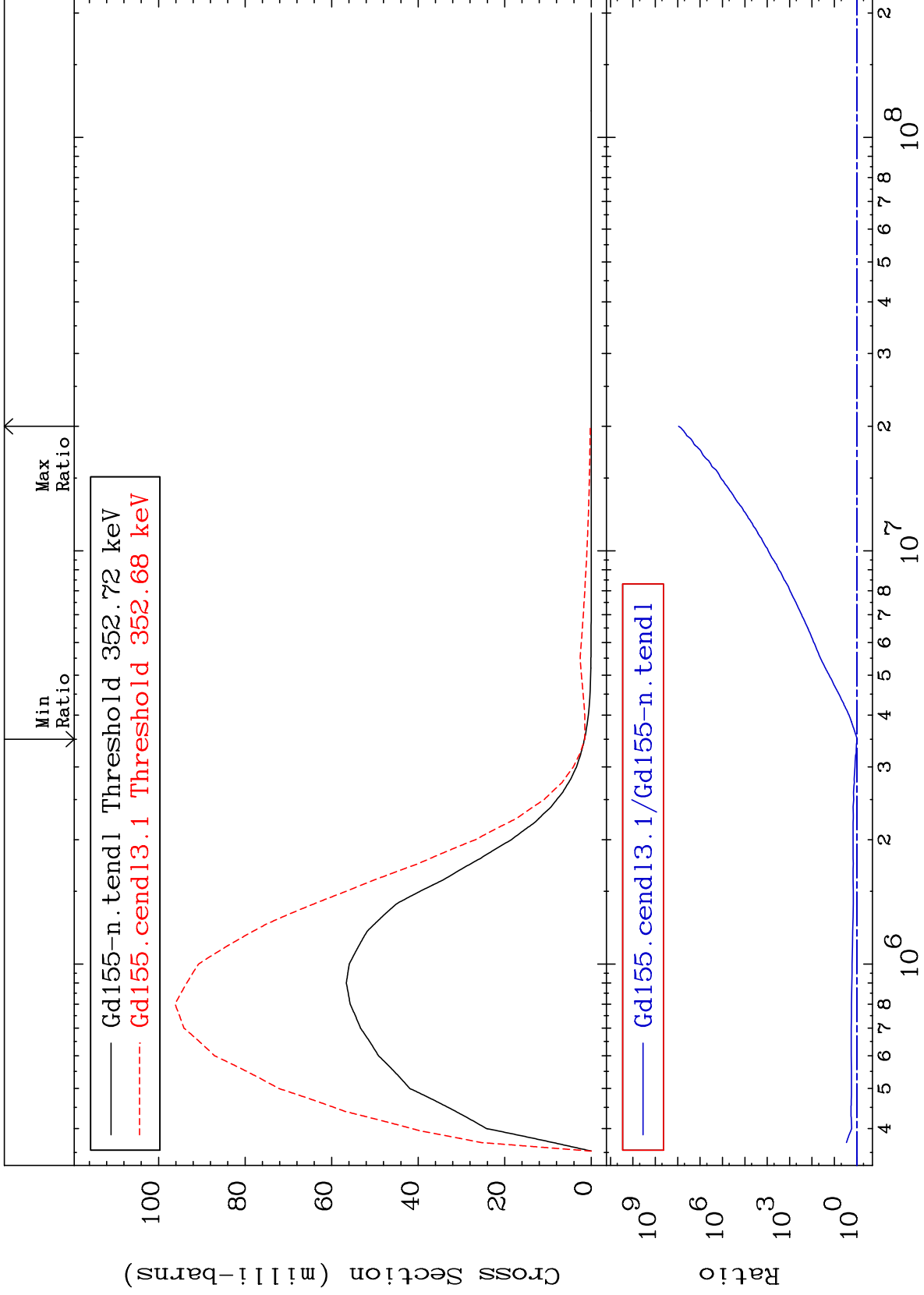
64-Gd-155  
-2.482 To 9999. %



MAT 6434

350.4 keV (n,n') Level  
Cross Section

64-Gd-155  
-4.782 To 9999. %

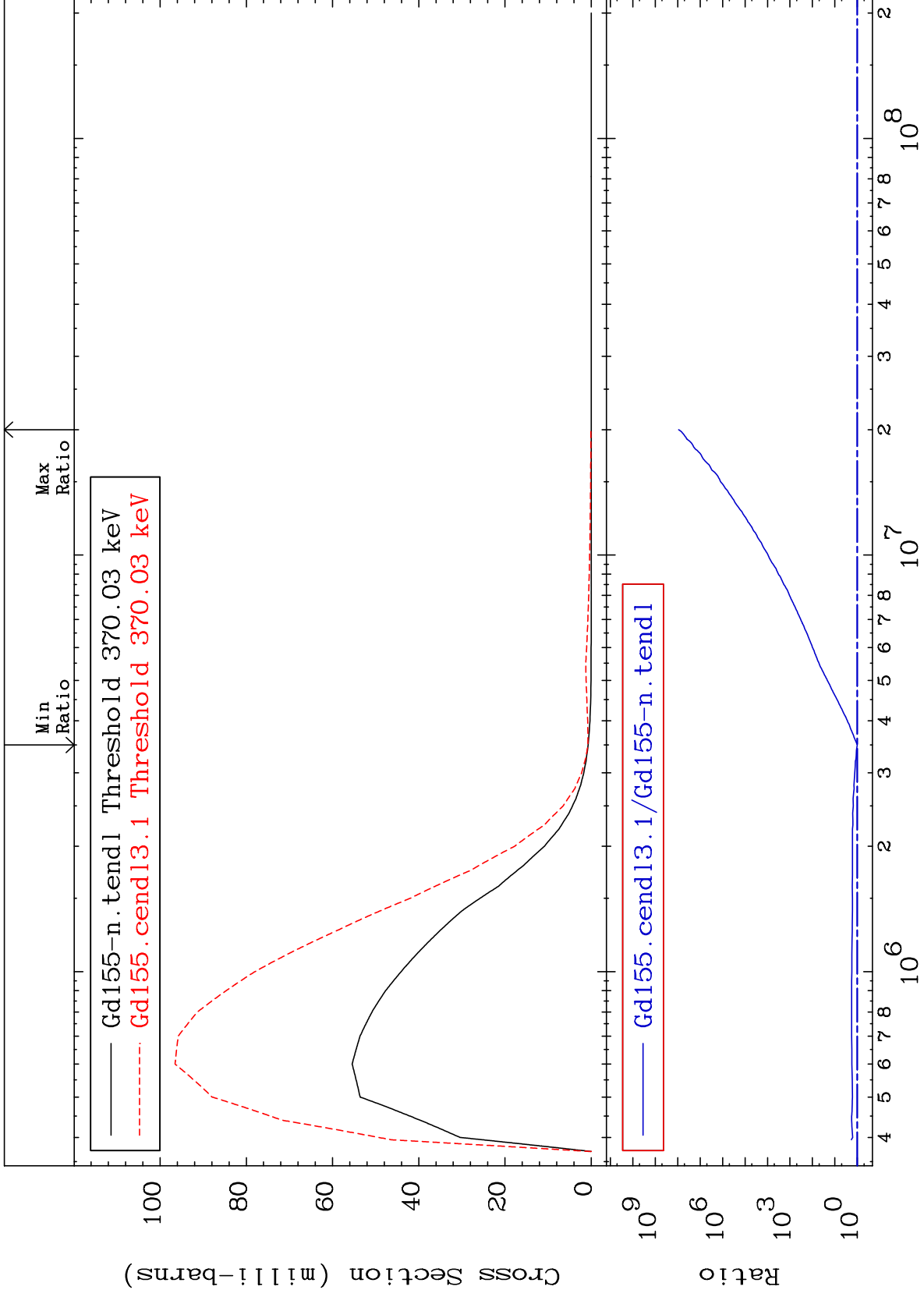




MAT 6434

367.6 keV (n,n') Level  
Cross Section

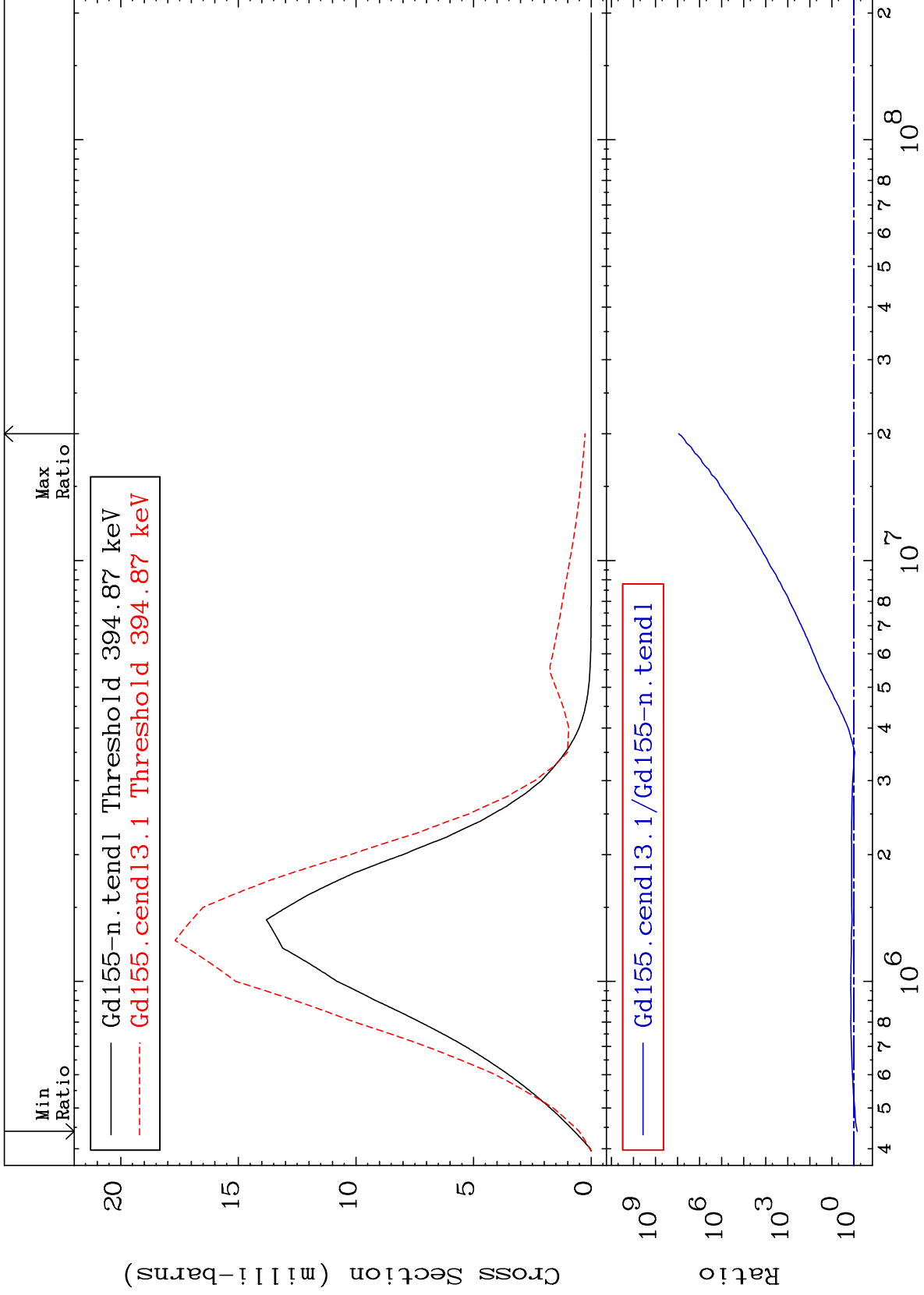
64-Gd-155  
0.542 To 9999. %



MAT 6434

392.3 keV (n,n') Level  
Cross Section

64-Gd-155  
-28.97 To 9999. %



26

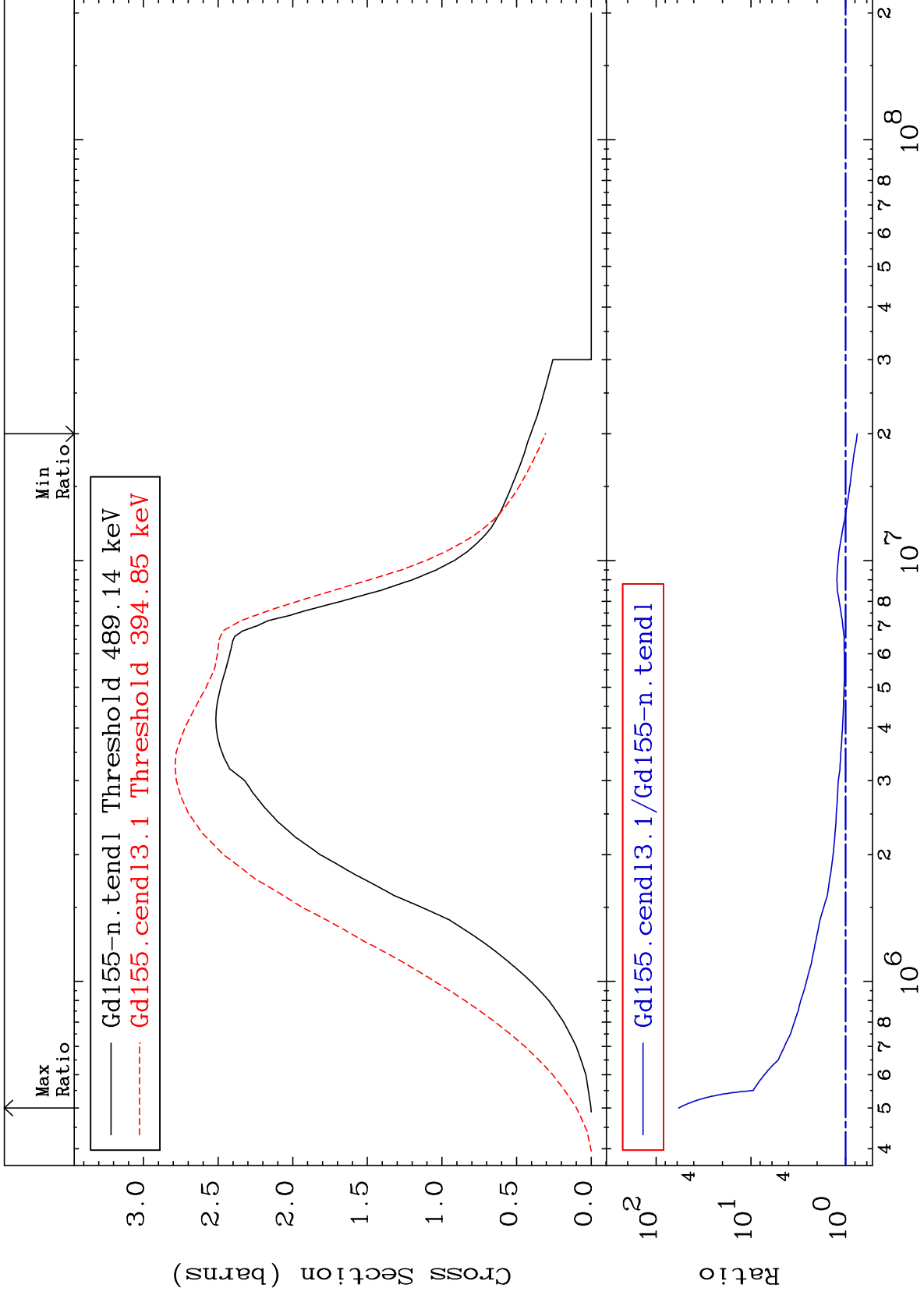
Incident Energy (eV)

64-Gd-155

MAT 6434

(n, n') Continuum  
Cross Section

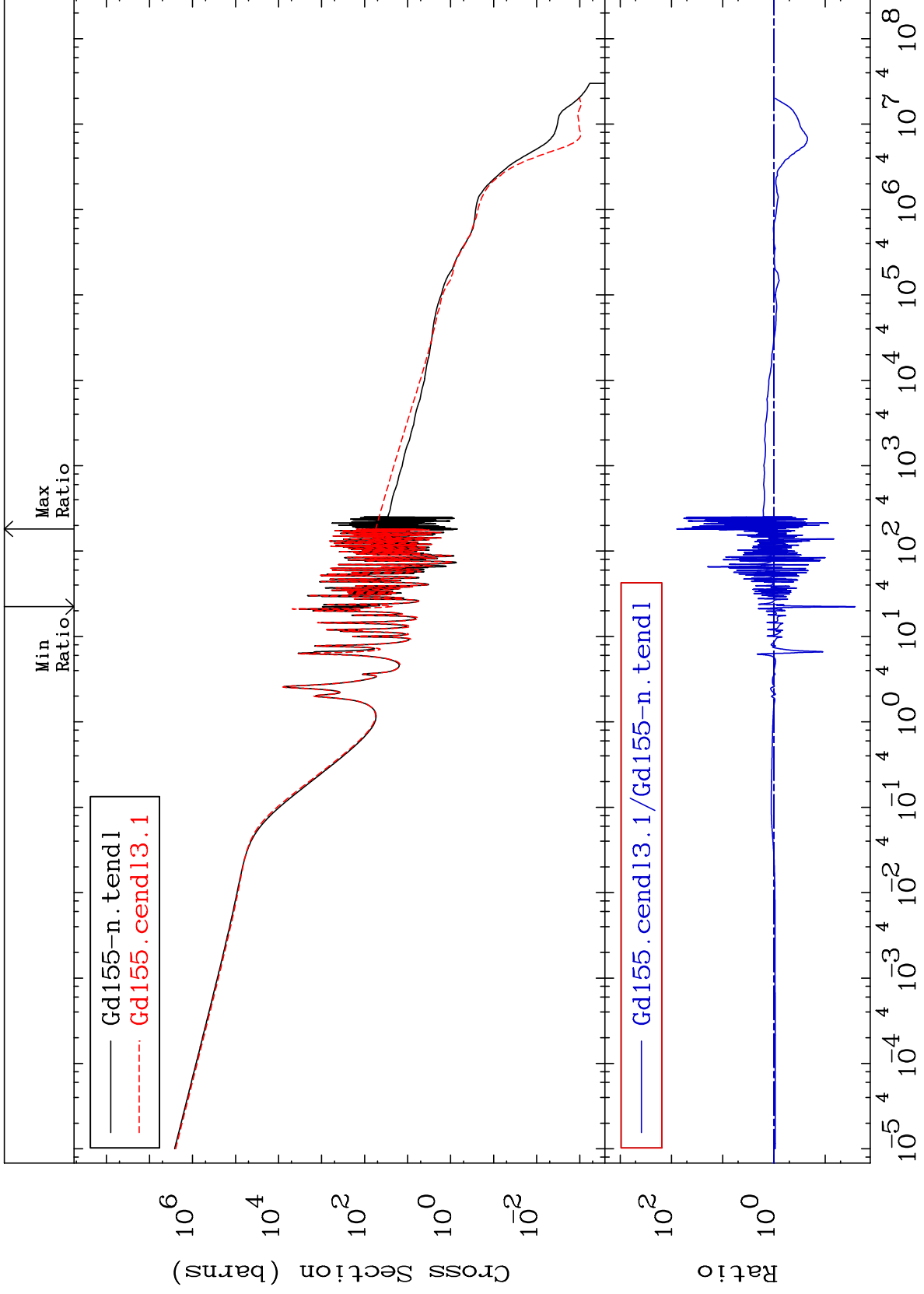
64-Gd-155  
-24.48 To 5690. %



MAT 6434

64-Gd-155  
-97.39 To 7717. %

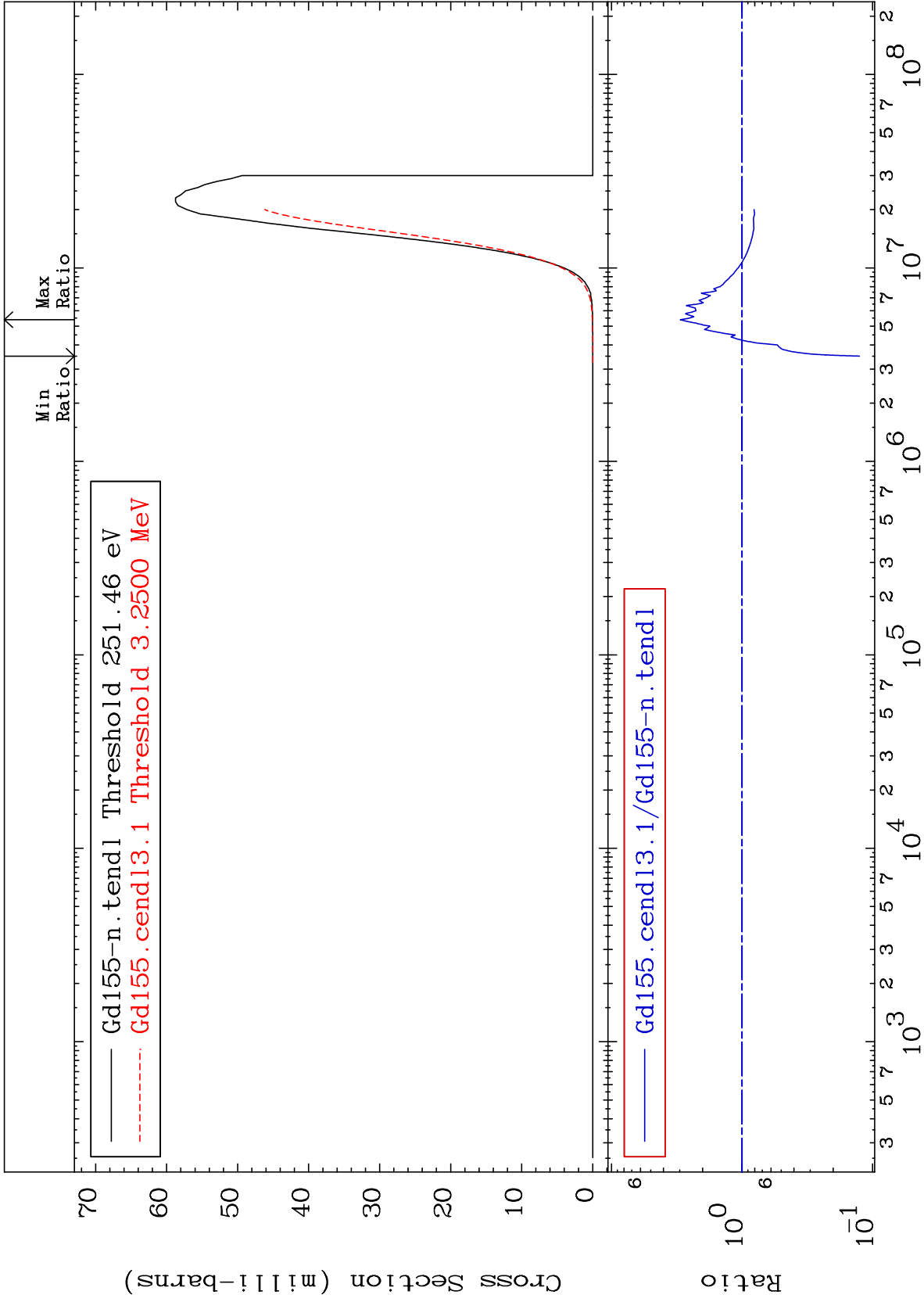
(n,  $\gamma$ )  
Cross Section



MAT 6434

(n,p)  
Cross Section

64-Gd-155  
-87.40 To 196.6 %



MAT 6434

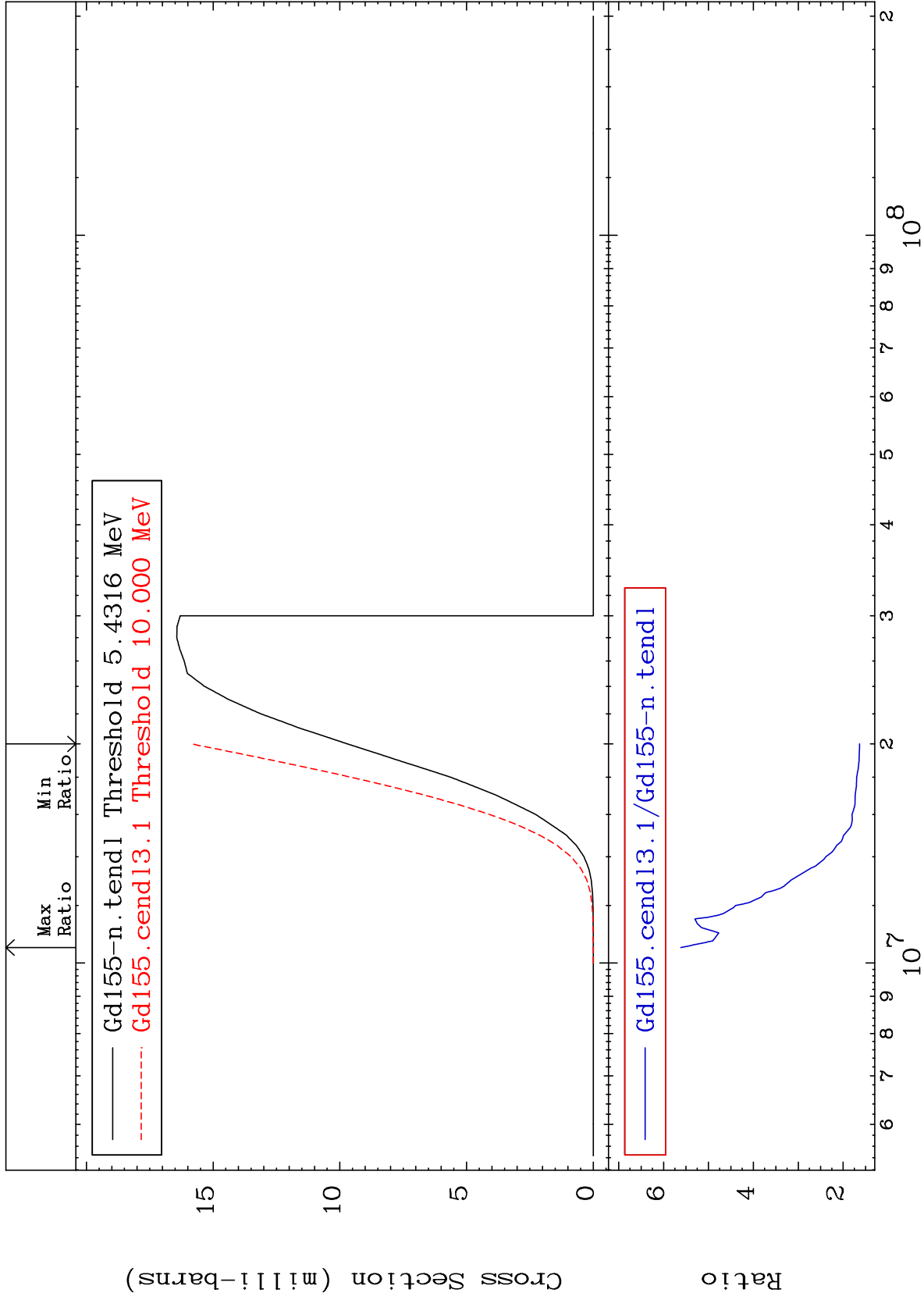
(n, d)

64-Gd-155

Cross Section

63.44

To 461.7 %



30

Incident Energy (eV)

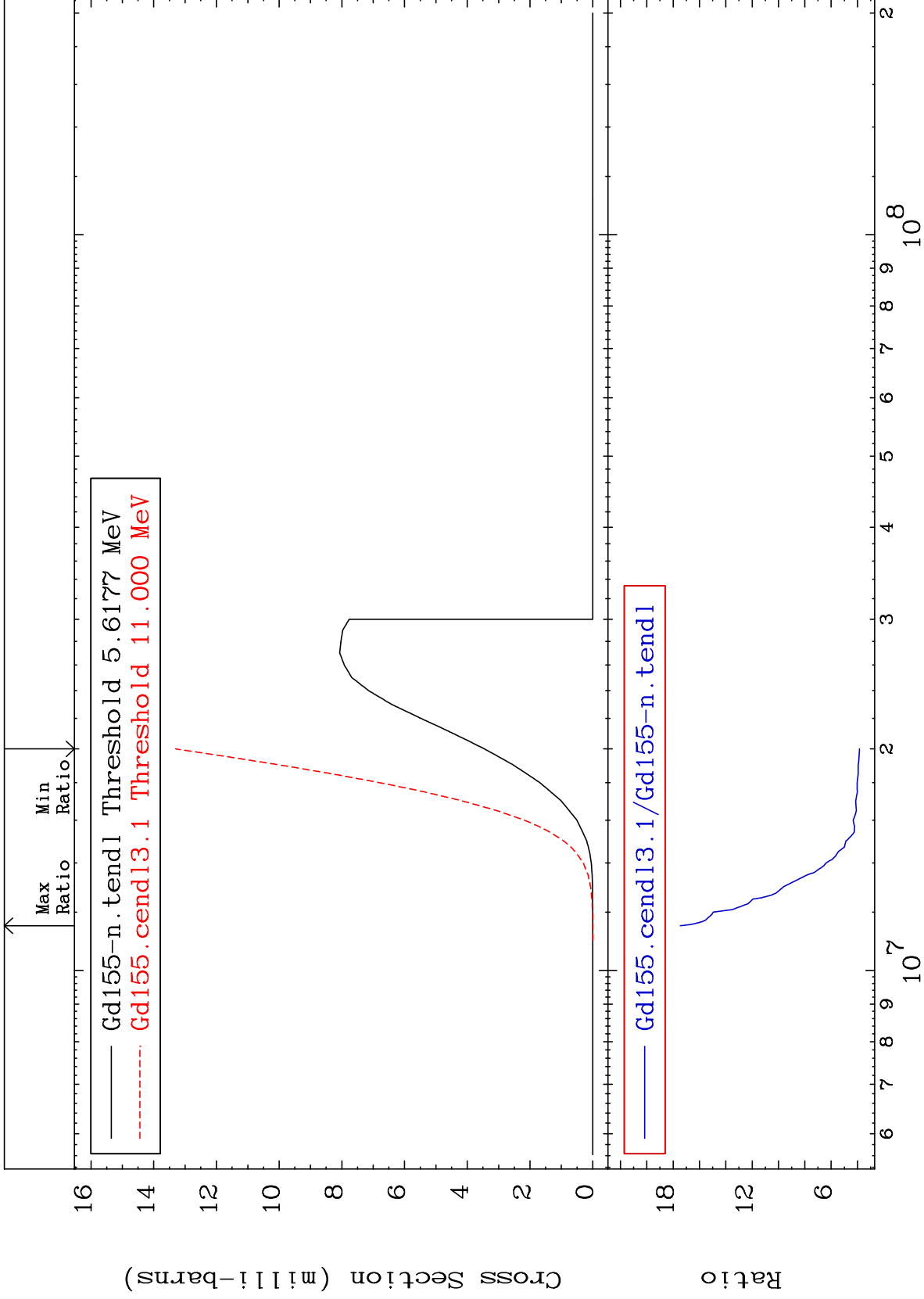
64-Gd-155

MAT 6434

64-Gd-155

285.4 To 1645. %

(n, t)  
Cross Section



31

Incident Energy (eV)

64-Gd-155

MAT 6434

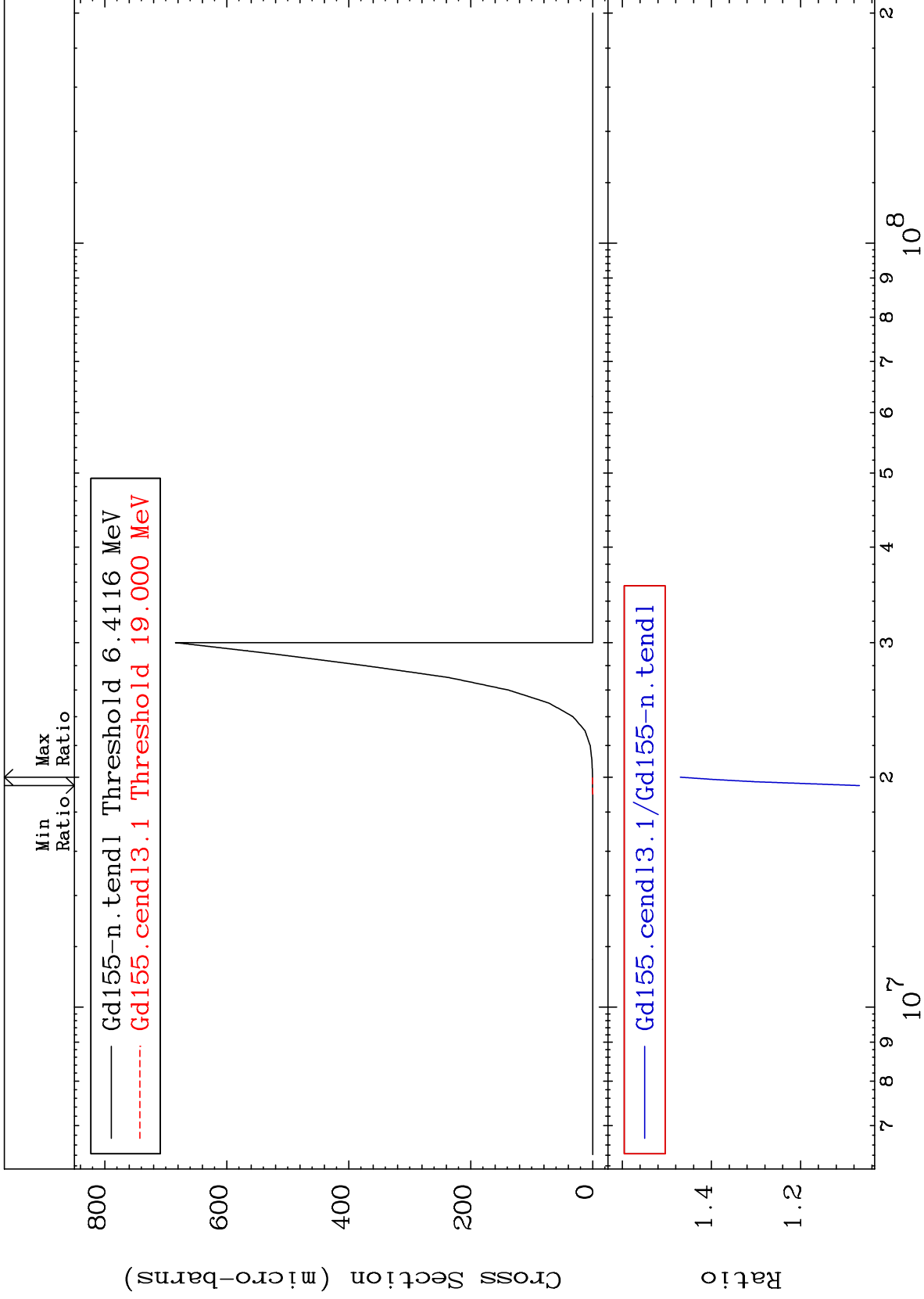
(n, He-3)

64-Gd-155

Cross Section

6.804

To 46.97 %



32

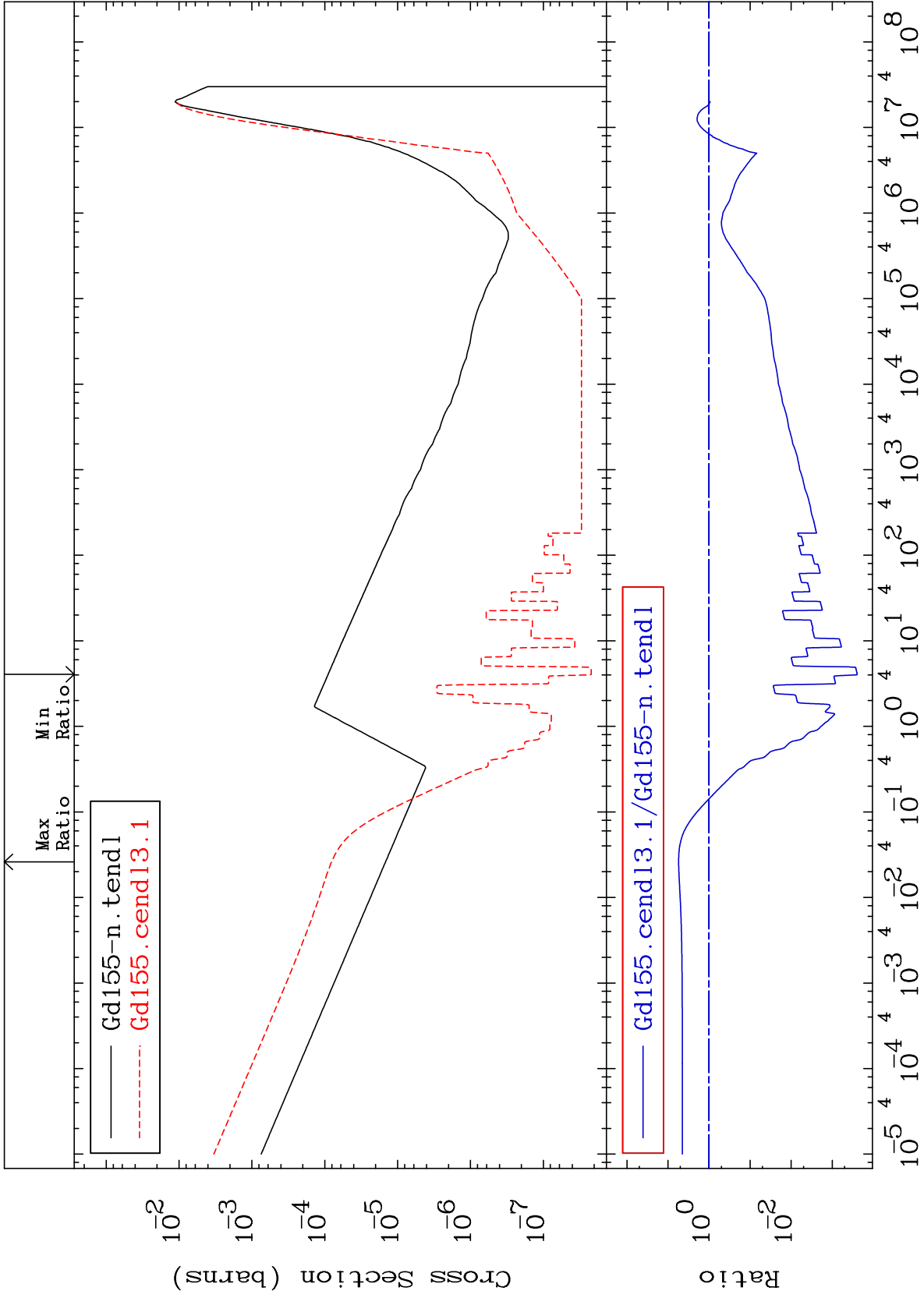
Incident Energy (eV)

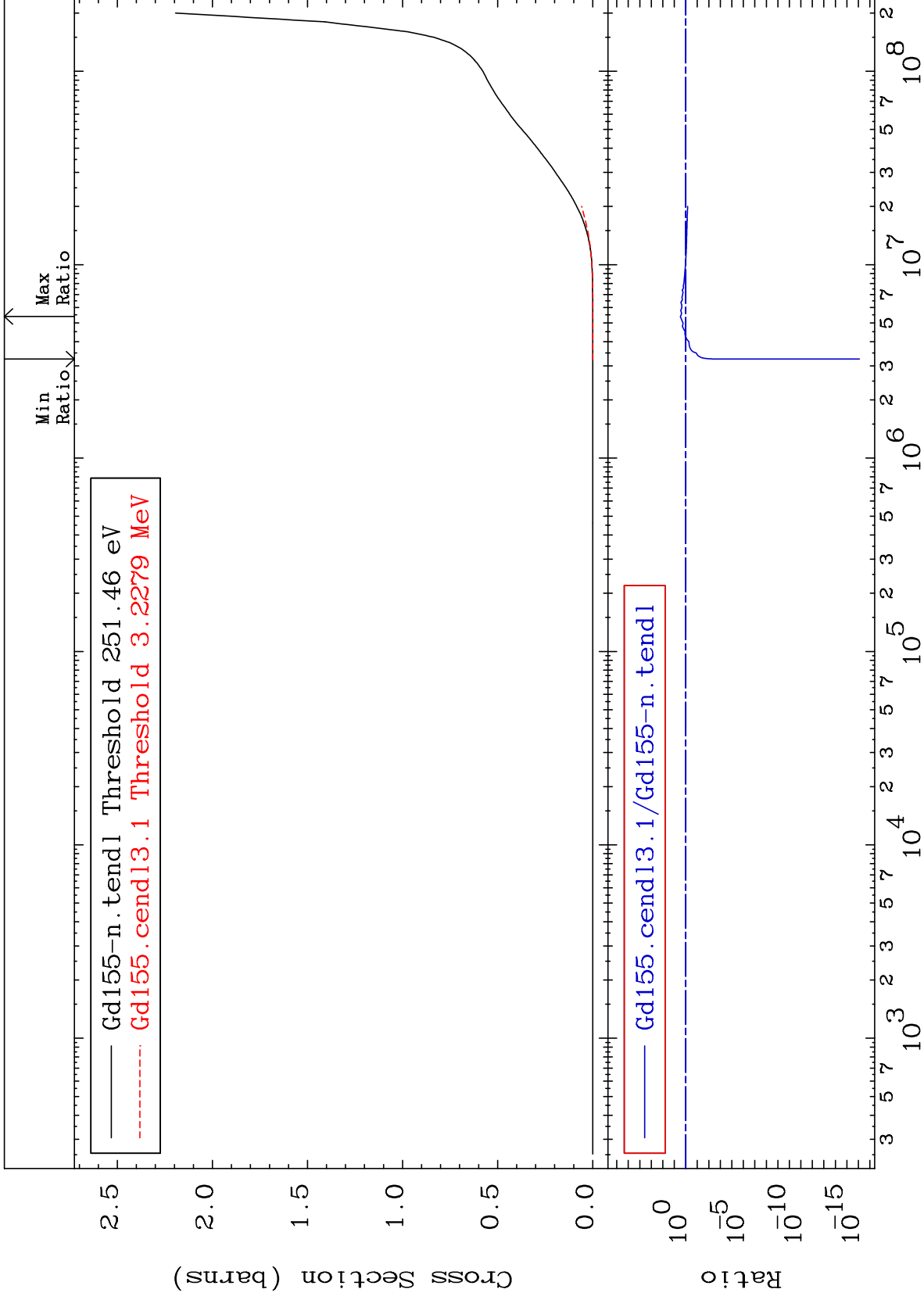
64-Gd-155



MAT 6434

(n,  $\alpha$ )  
Cross Section  
64-Gd-155  
-99.98 To 450.0 %

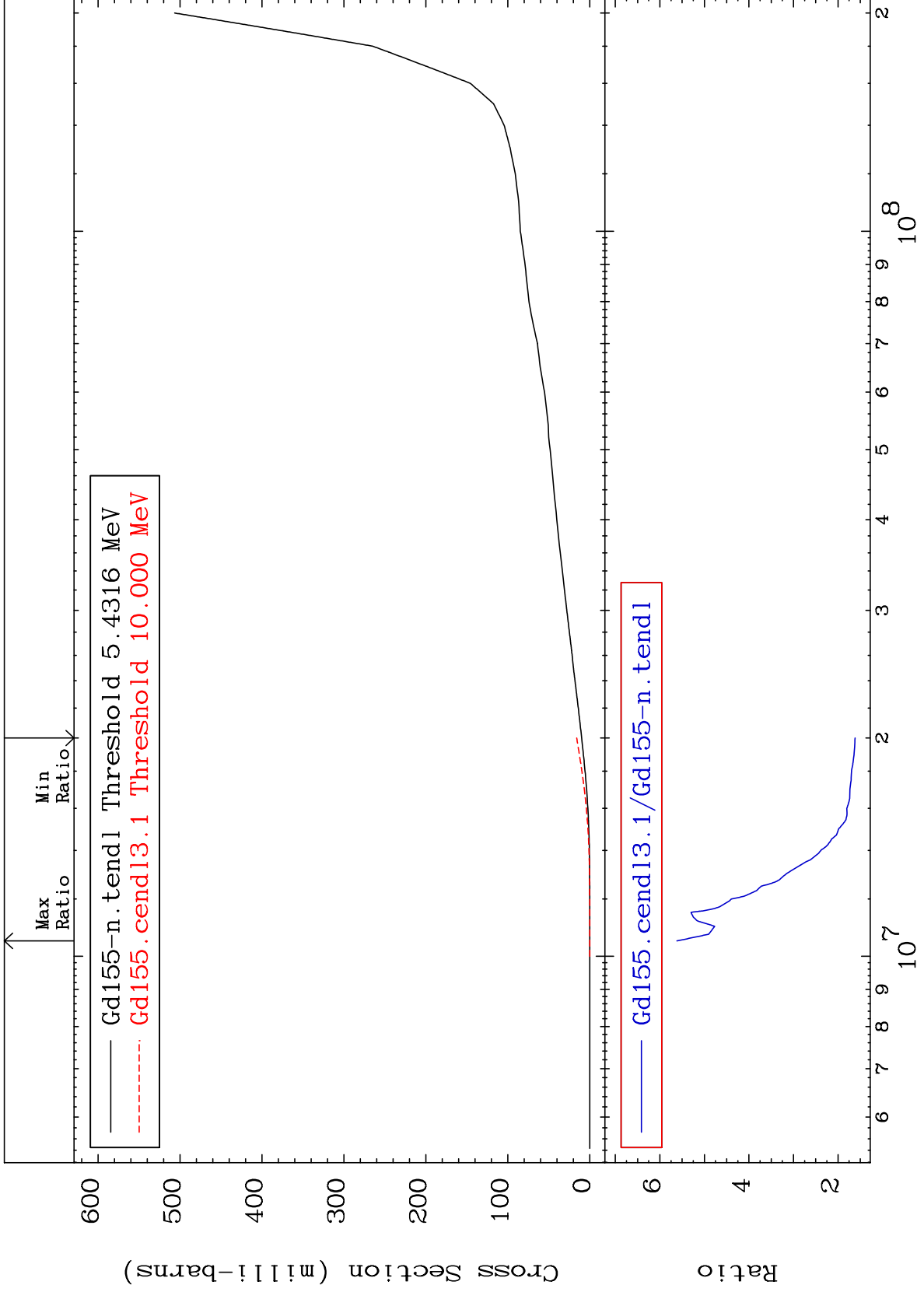




MAT 6434

Deuterium Production  
Cross Section

64-Gd-155  
61.62 To 461.7 %



35

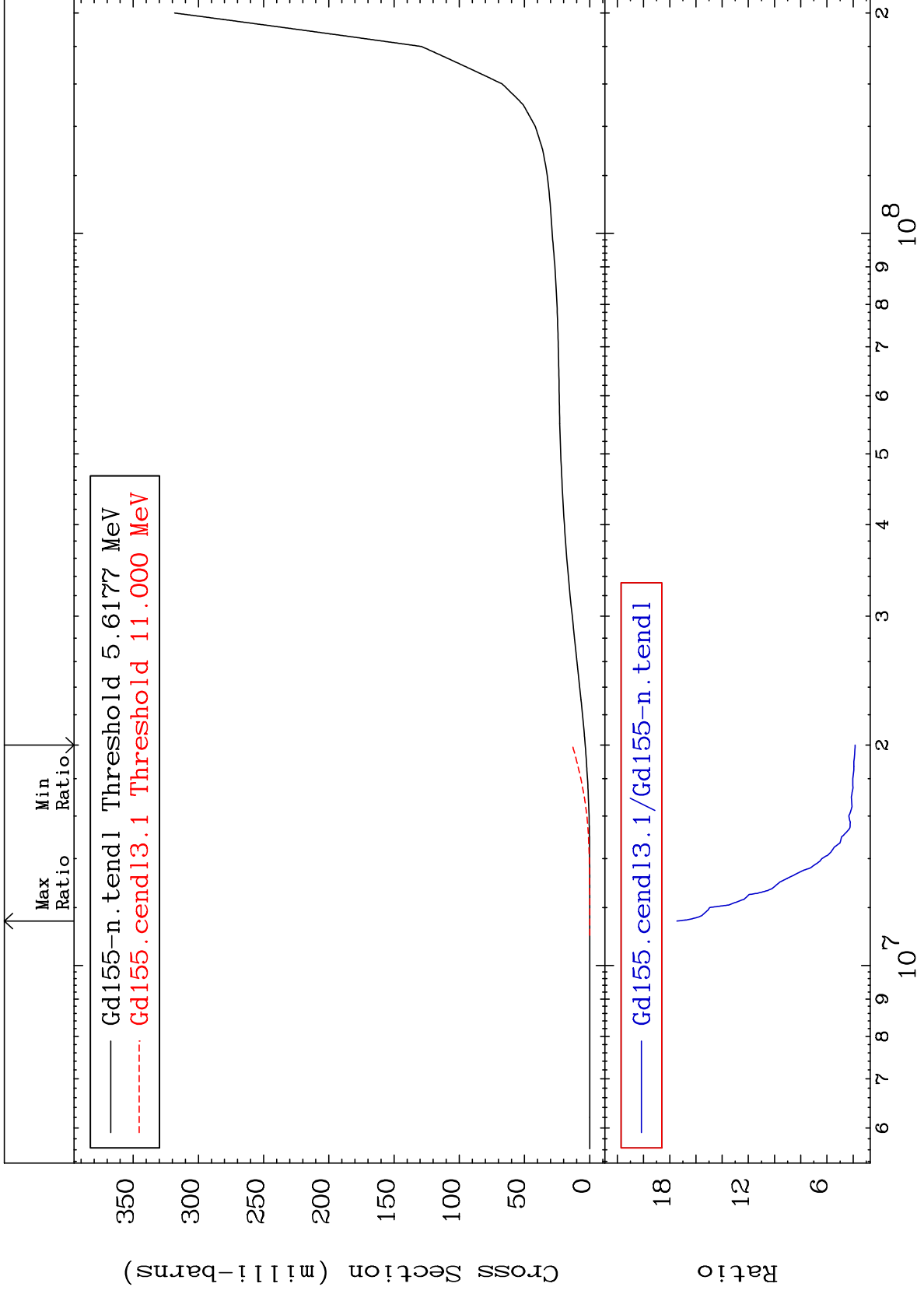
Incident Energy (eV)

64-Gd-155

MAT 6434

Tritium Production  
Cross Section

64-Gd-155  
285.3 To 1645. %



36

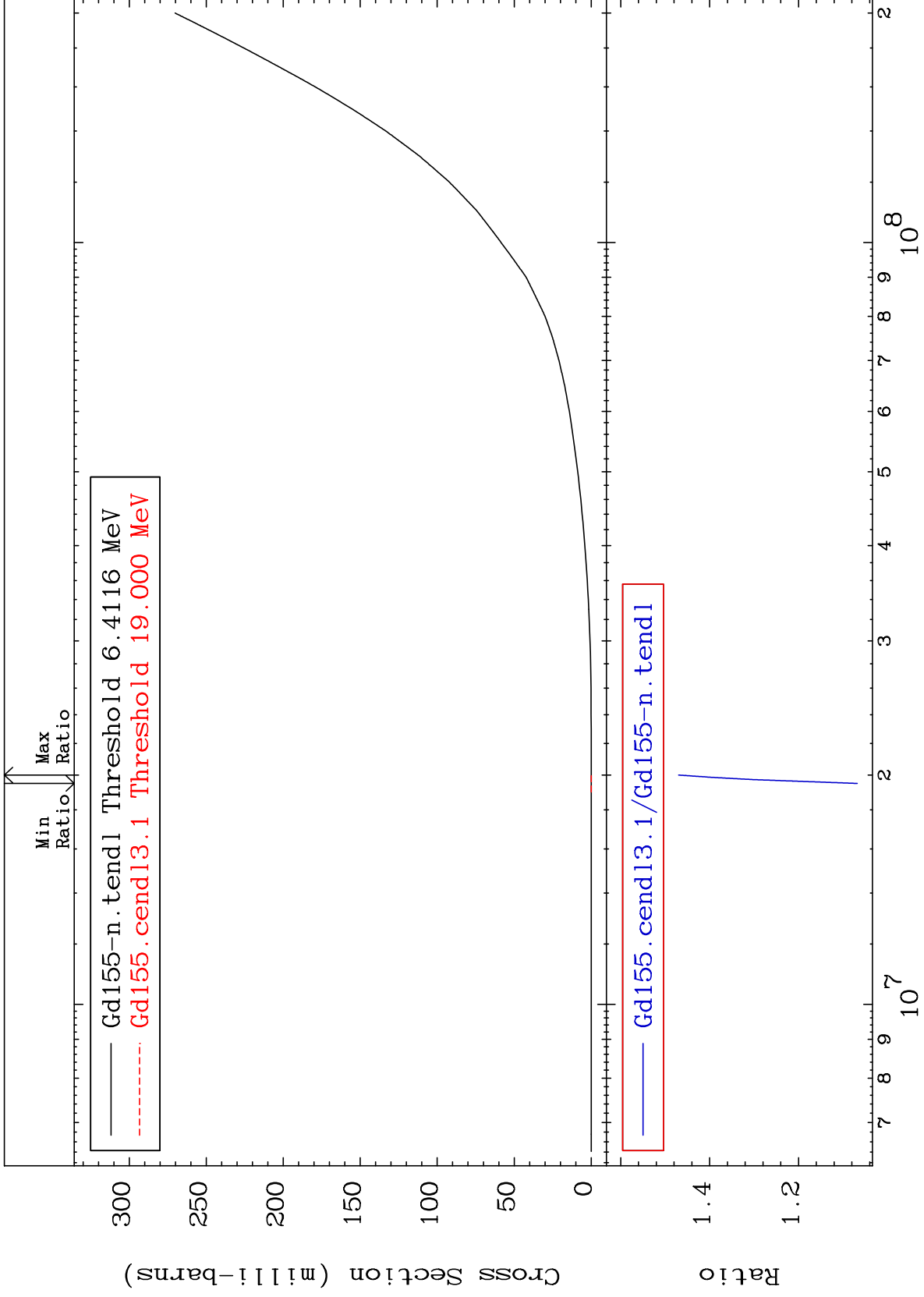
Incident Energy (eV)

64-Gd-155

MAT 6434

He-3 Production  
Cross Section

64-Gd-155  
To 46.97 %  
6.803



37

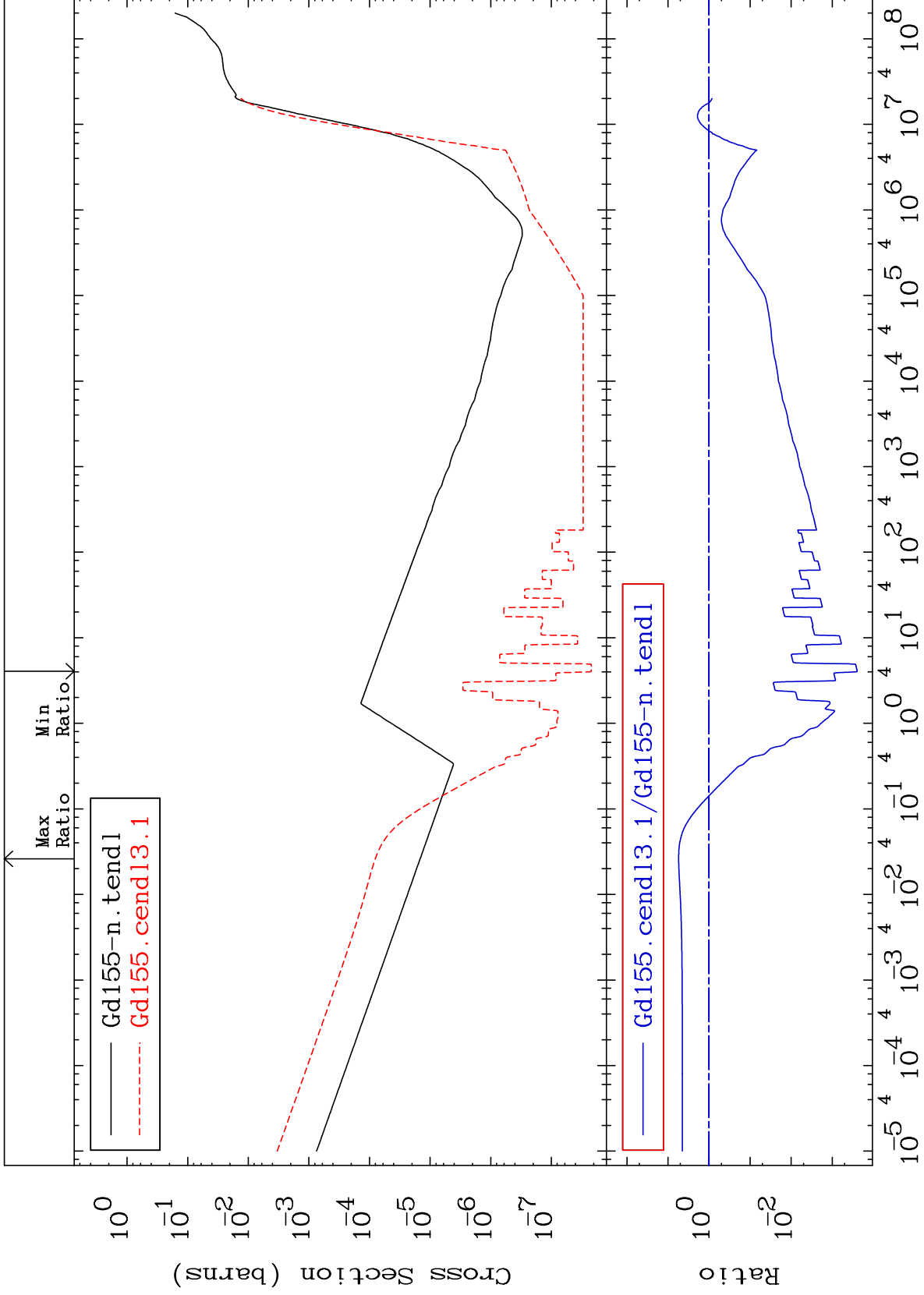
Incident Energy (eV)

64-Gd-155

MAT 6434

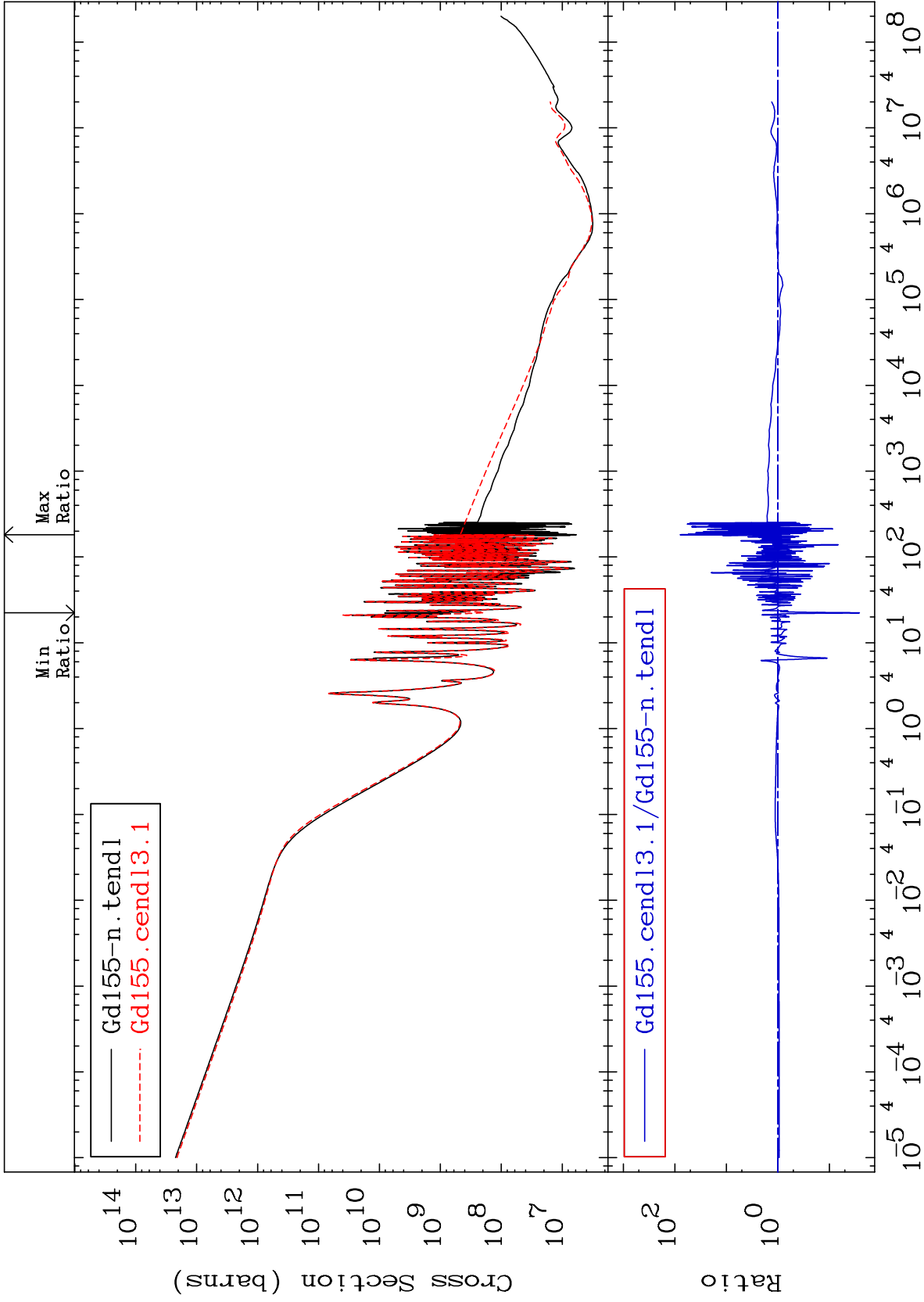
He-4 Production  
Cross Section

64-Gd-155  
-99.98 To 450.0 %



Cross Section

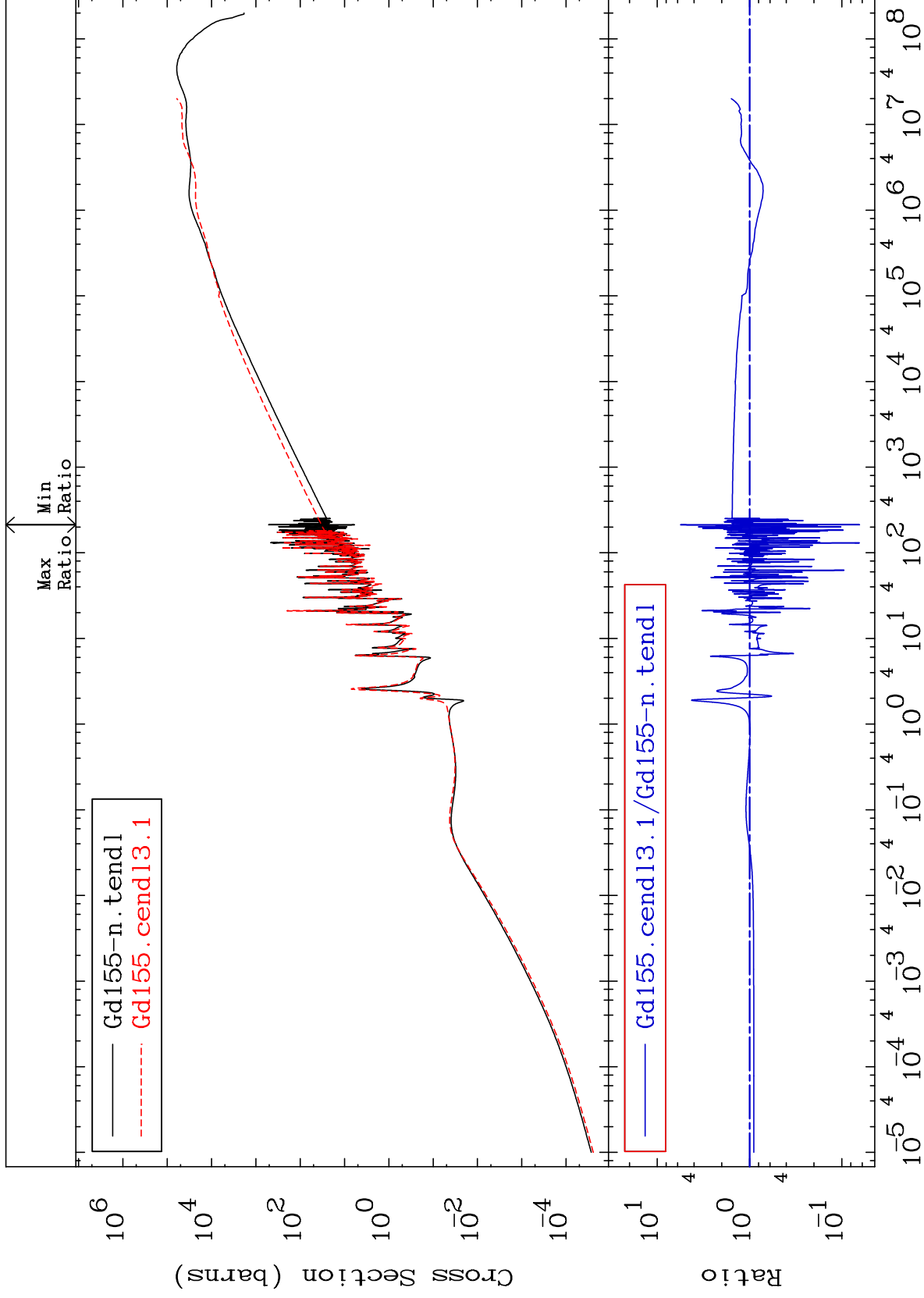
-97.39 To 7716. %



MAT 6434

Kerma elastic  
Cross Section

64-Gd-155  
-93.57 To 455.8 %



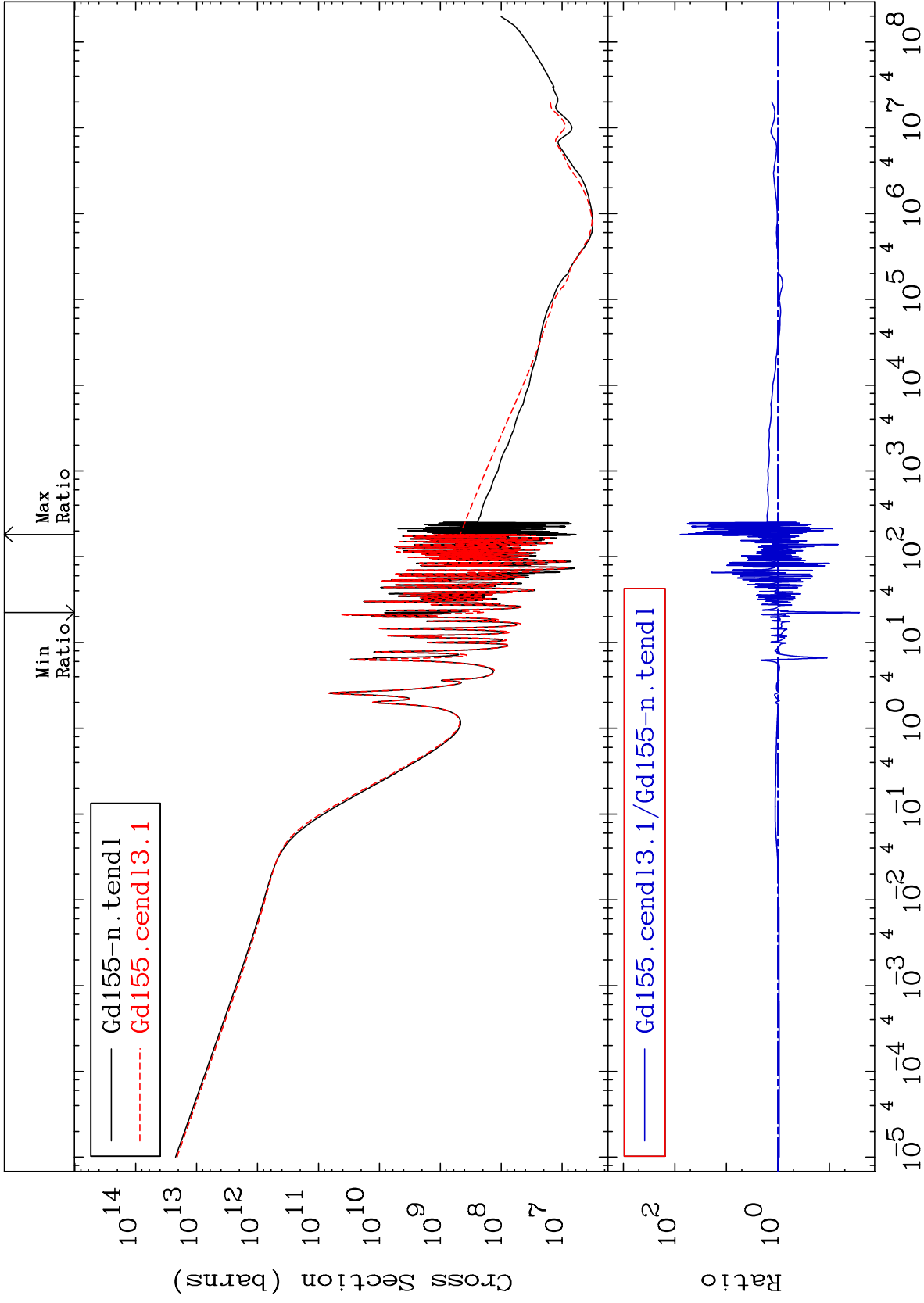
40

Incident Energy (eV)

64-Gd-155



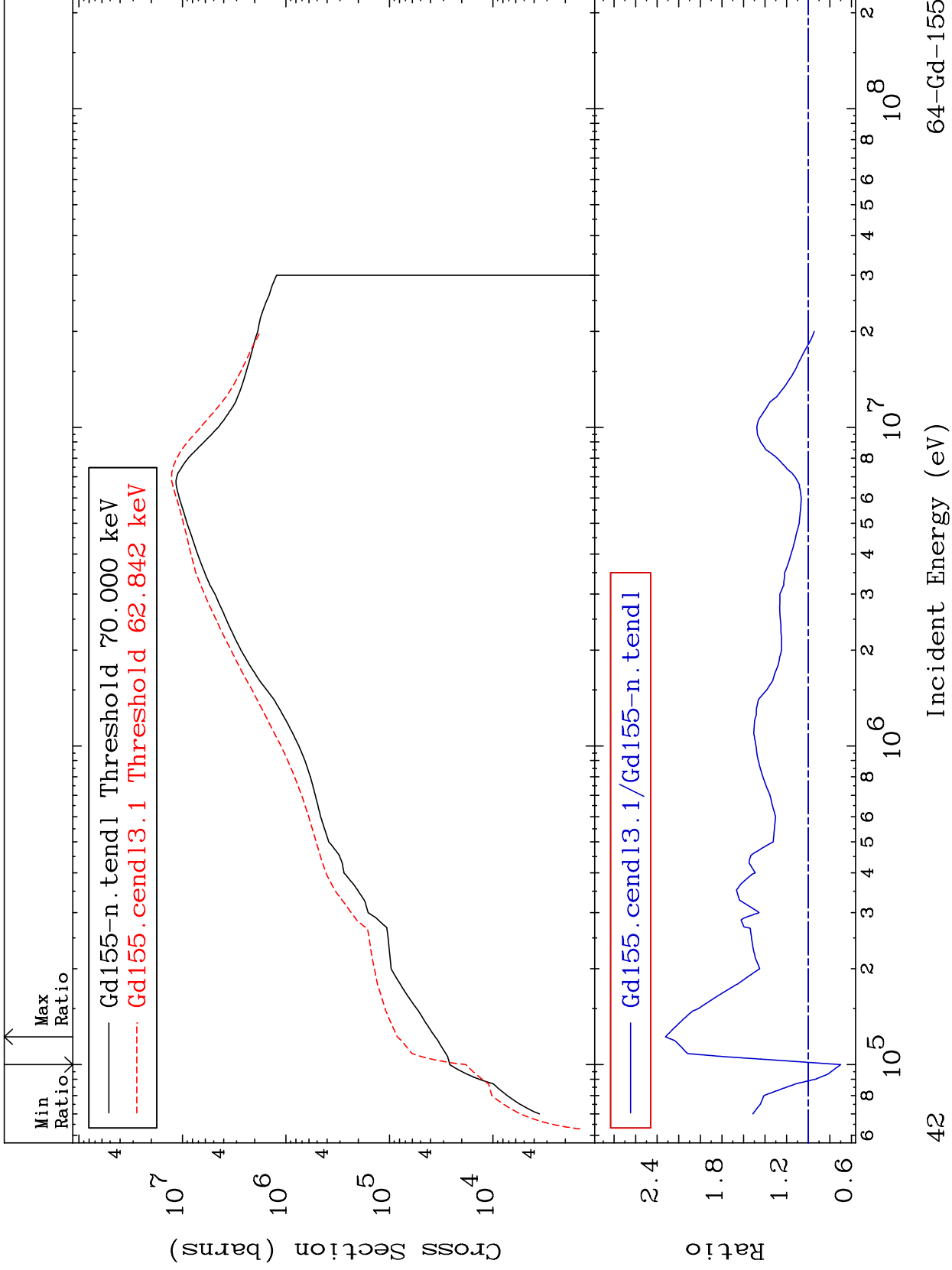
Cross Section



MAT 6434

Kerma inelastic (mt51-91)  
Cross Section

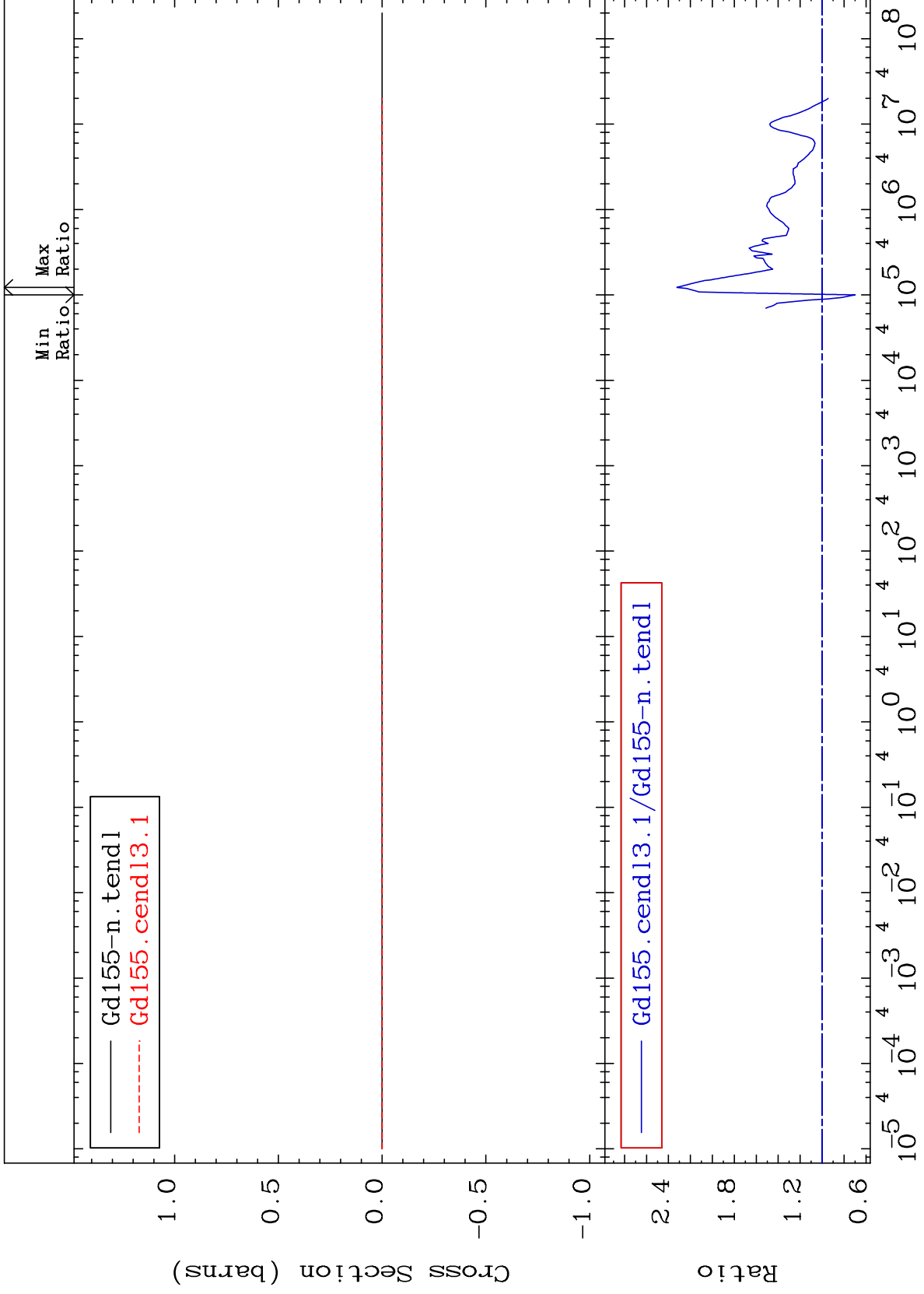
64-Gd-155  
-30.04 To 132.3 %

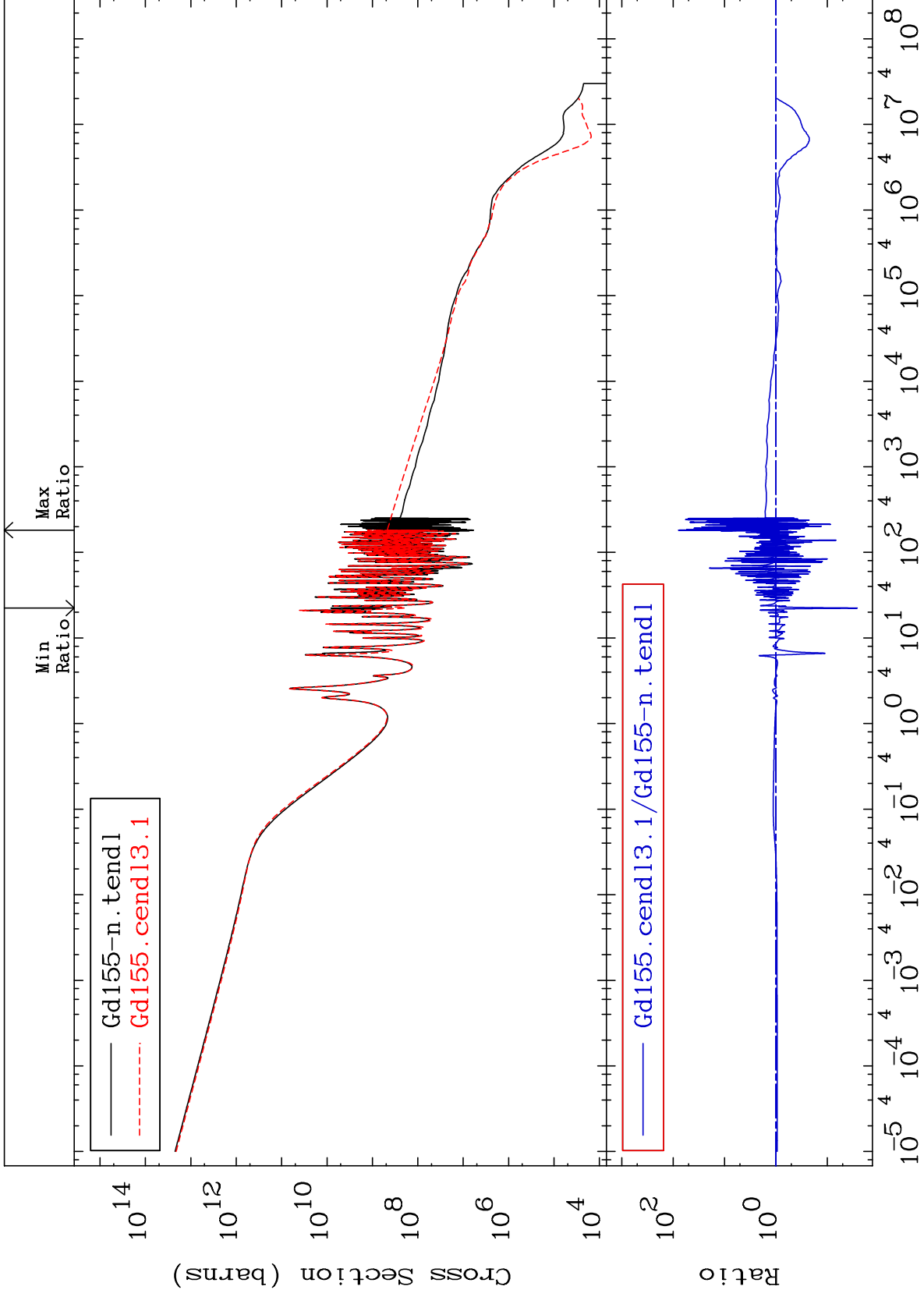


MAT 6434

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

64-Gd-155  
-30.04 To 132.3 %

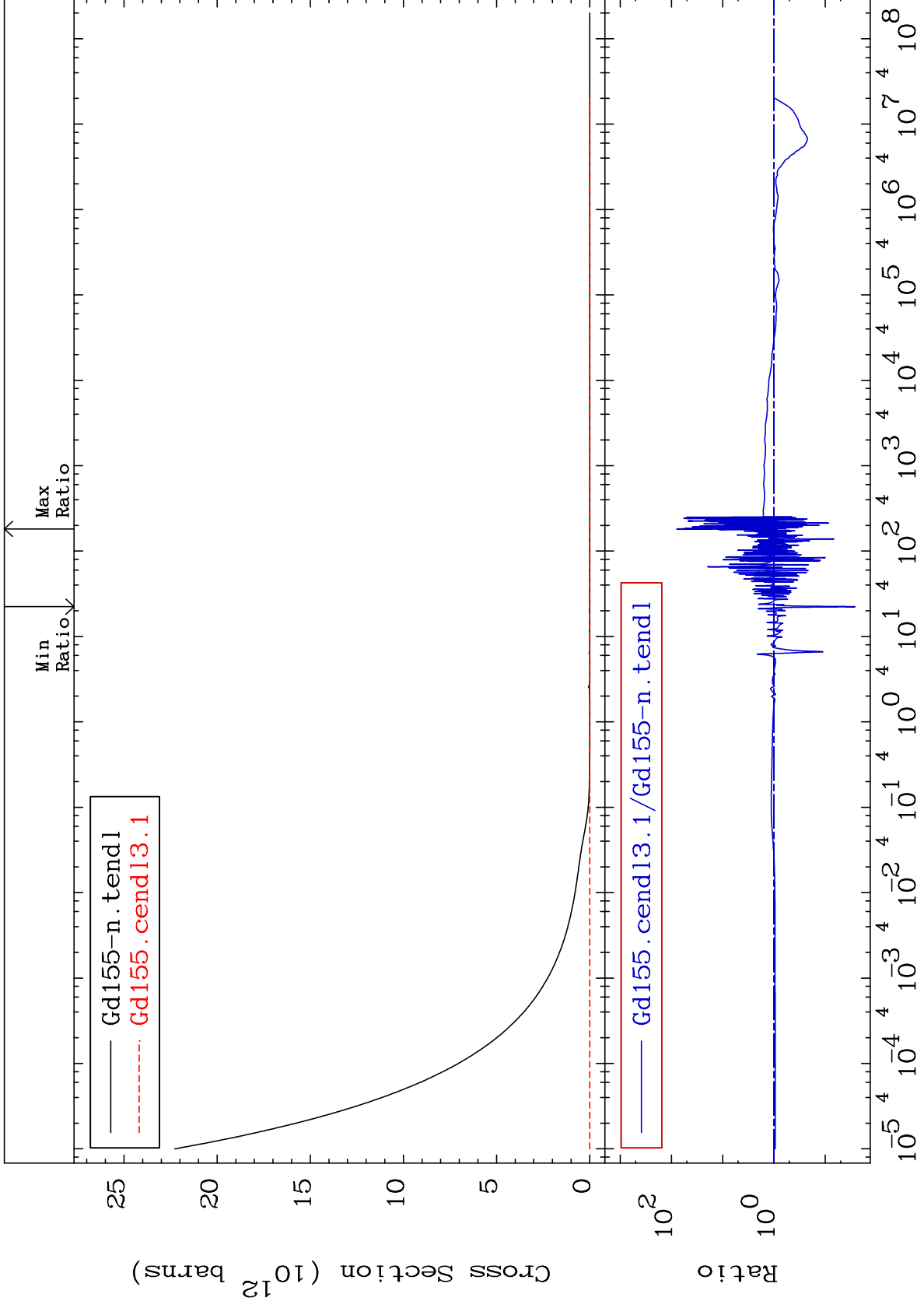




MAT 6434

Total photon (eV-barns)  
Cross Section

64-Gd-155  
-97.39 To 7716. %



45

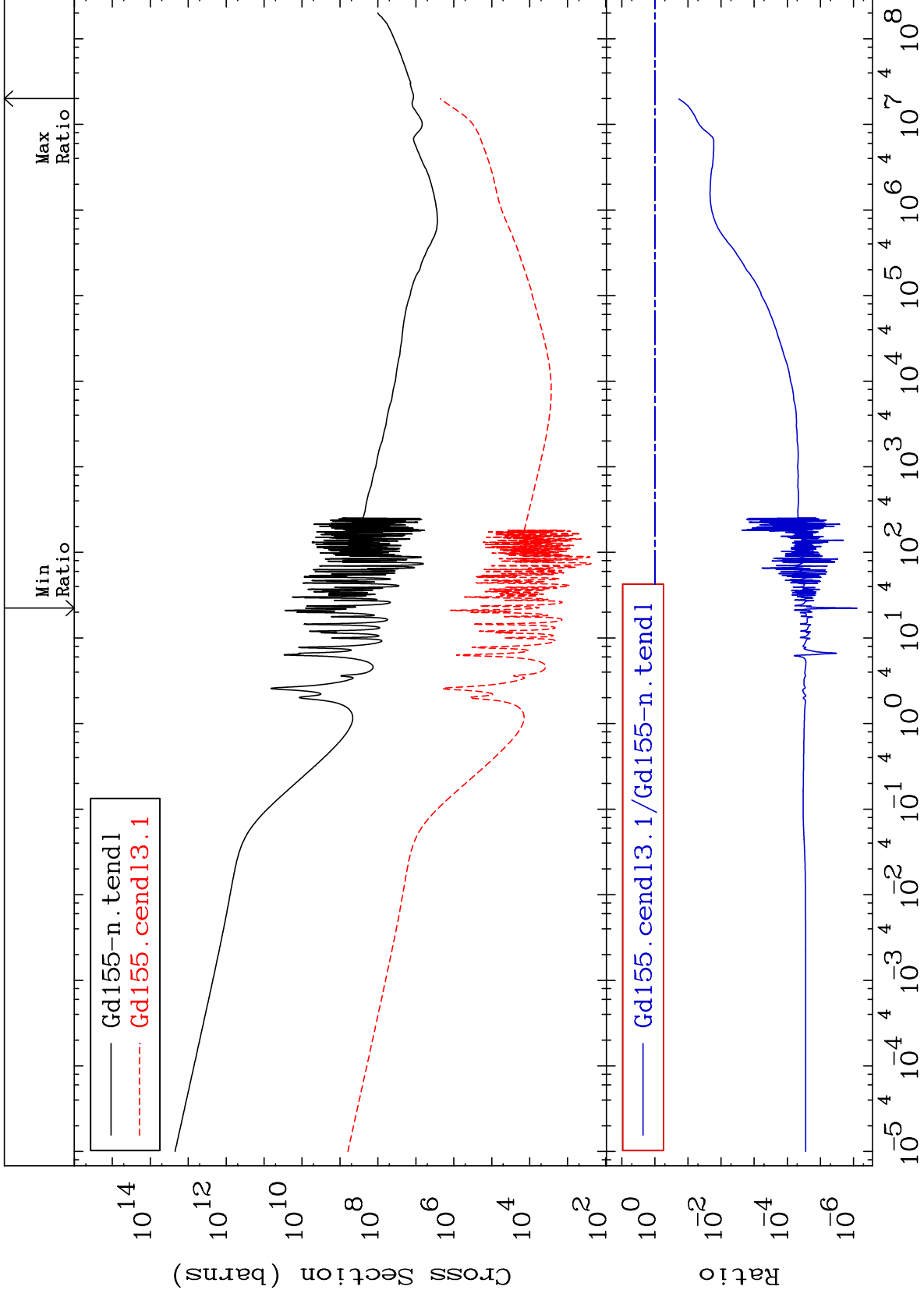
Incident Energy (eV)

64-Gd-155

MAT 6434

Total kinematic kerma (high limit)

64-Gd-155  
-100.0 To -80.82%



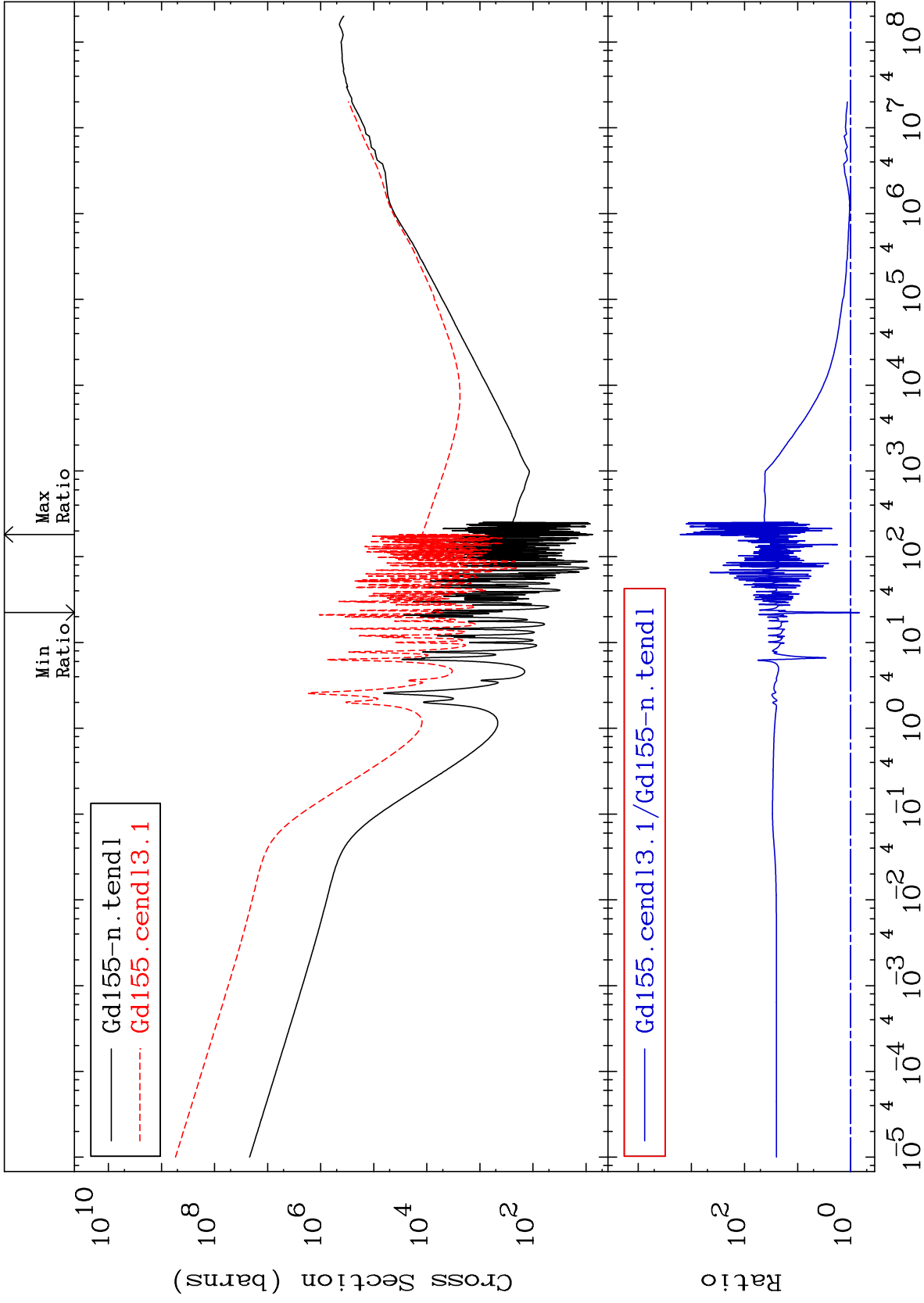
MAT 6434

Dpa total (eV-barns)

64-Gd-155

-31.41 To 9999. %

Cross Section



Gd155-n.tendl  
Gd155.cendl3.1

Gd155.cendl3.1/Gd155-n.tendl

47

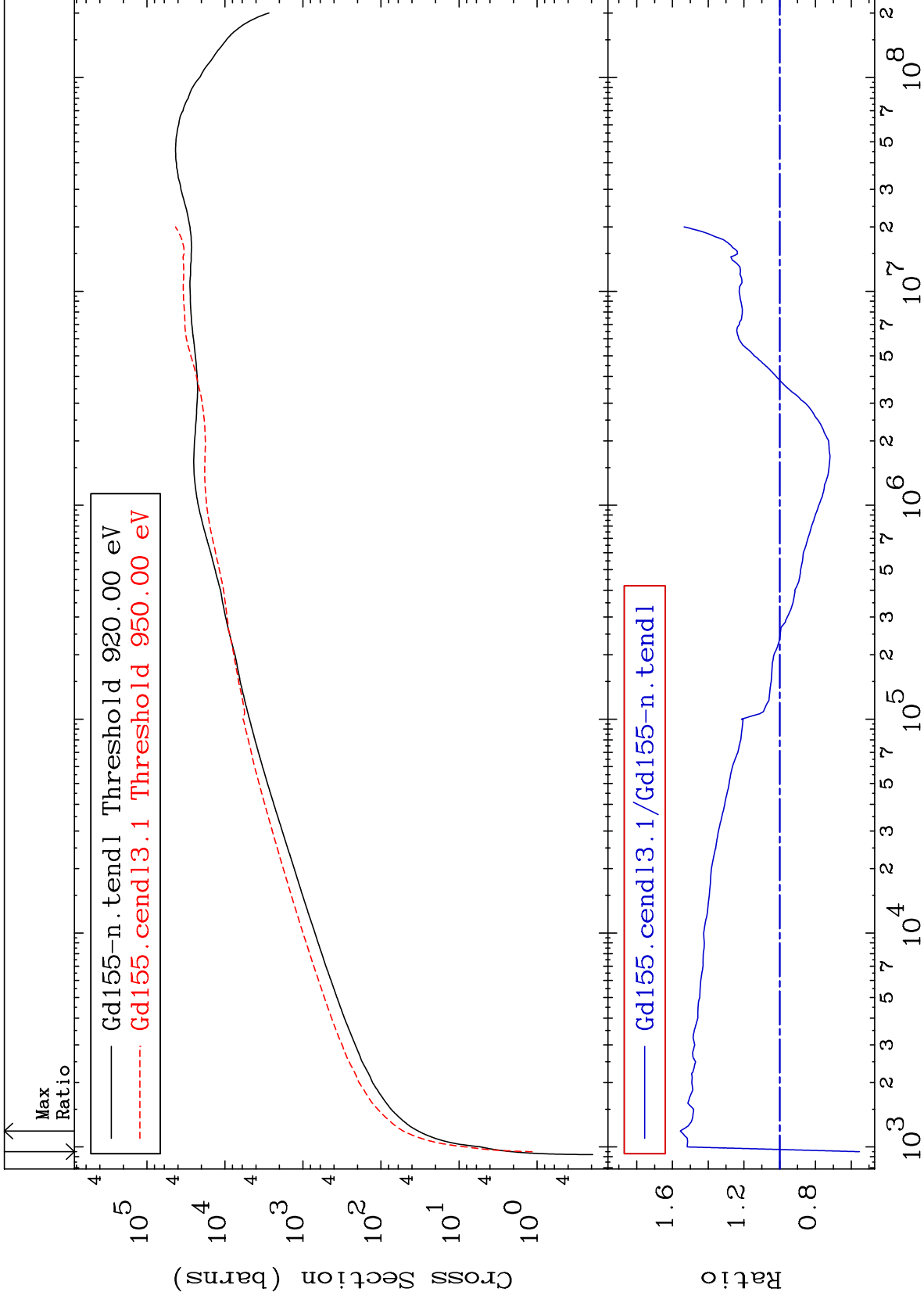
Incident Energy (eV)

64-Gd-155

MAT 6434

Dpa elastic (mt2)  
Cross Section

64-Gd-155  
-44.59 To 55.57 %



48

Incident Energy (eV)

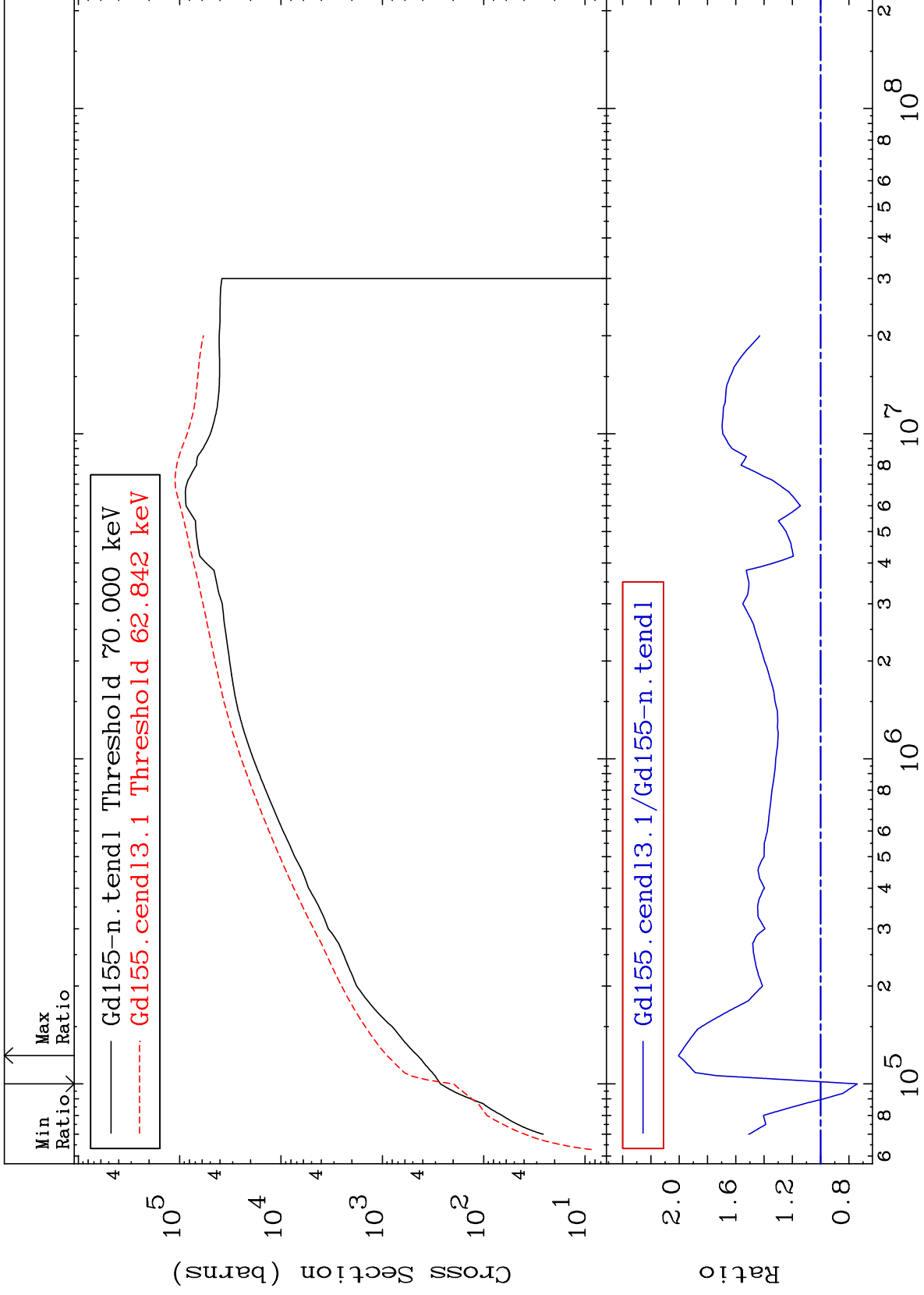
64-Gd-155



MAT 6434

Dpa inelastic (mt51-91)  
Cross Section

64-Gd-155  
-25.82 To 100.4 %



MAT 6434

Dpa disappearance (mt102 -120)  
Cross Section

64-Gd-155  
-31.41 To 9999. %

