

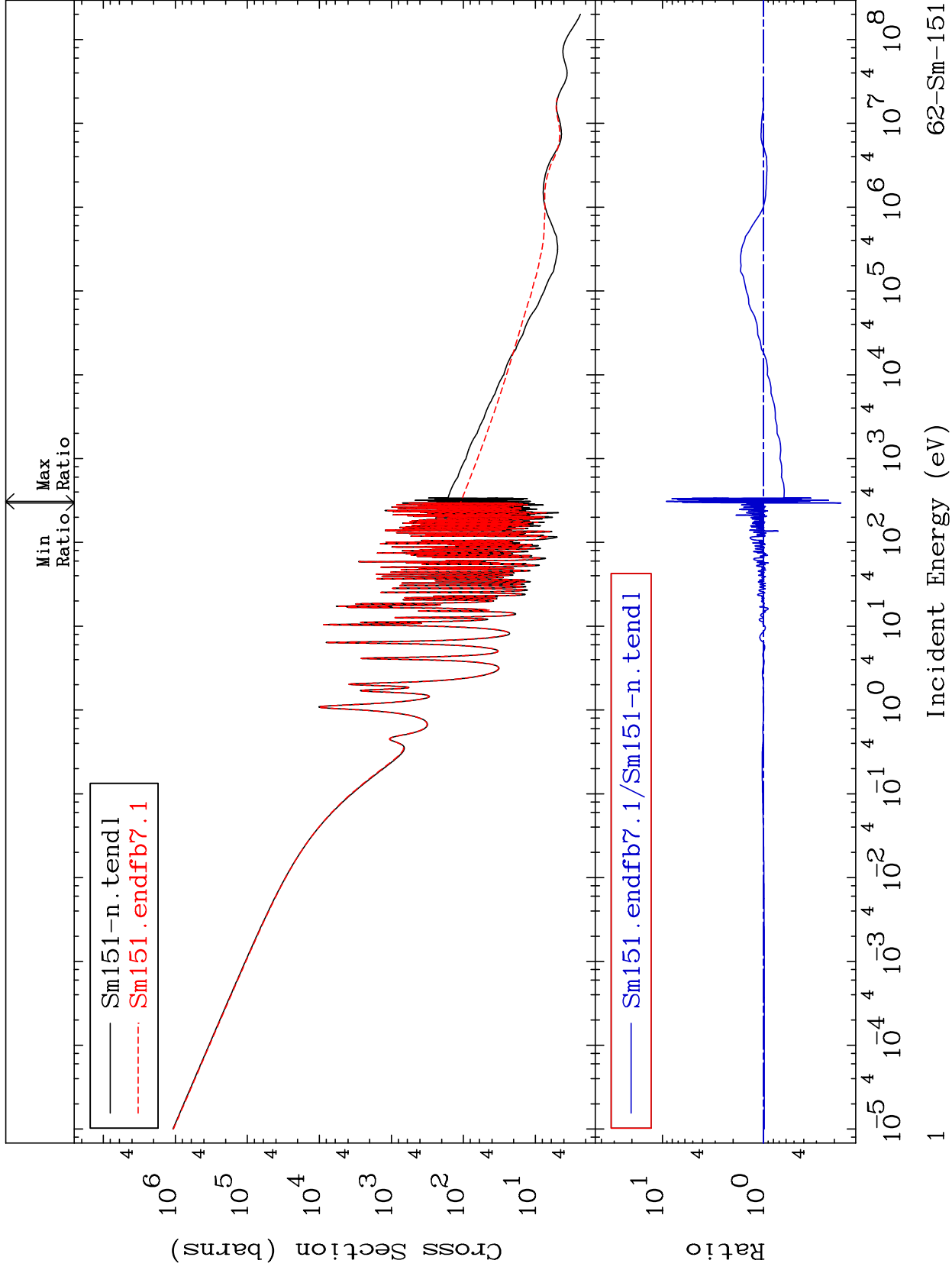
MAT 6246

Total

62-Sm-151

Cross Section

-82.78 To 821.5 %



Incident Energy (eV)

62-Sm-151

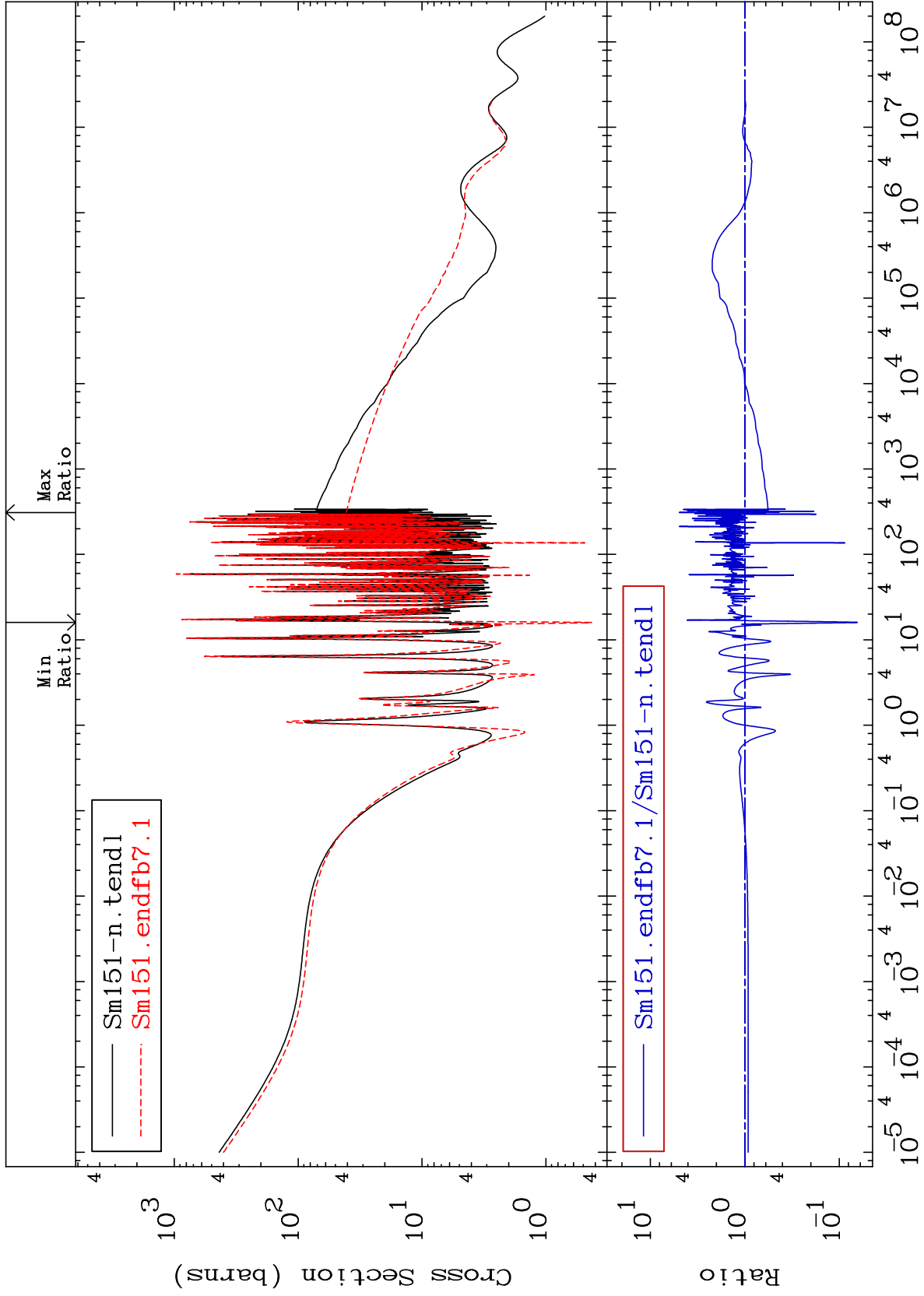
MAT 6246

Elastic

62-Sm-151

Cross Section

-93.56 To 397.1 %



Incident Energy (eV)

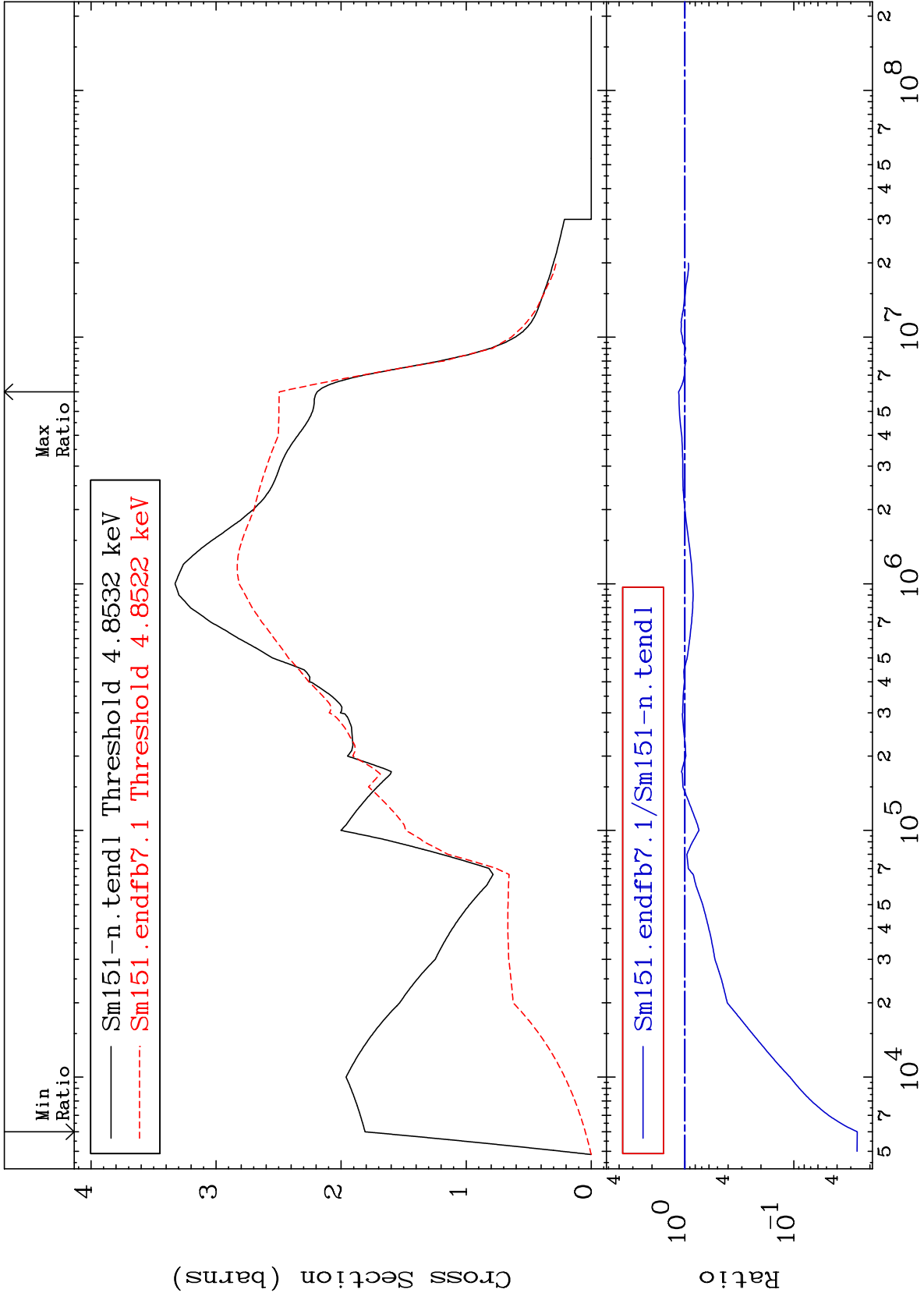
62-Sm-151

2

MAT 6246

Inelastic  
Cross Section

62-Sm-151  
-97.39 To 13.82 %



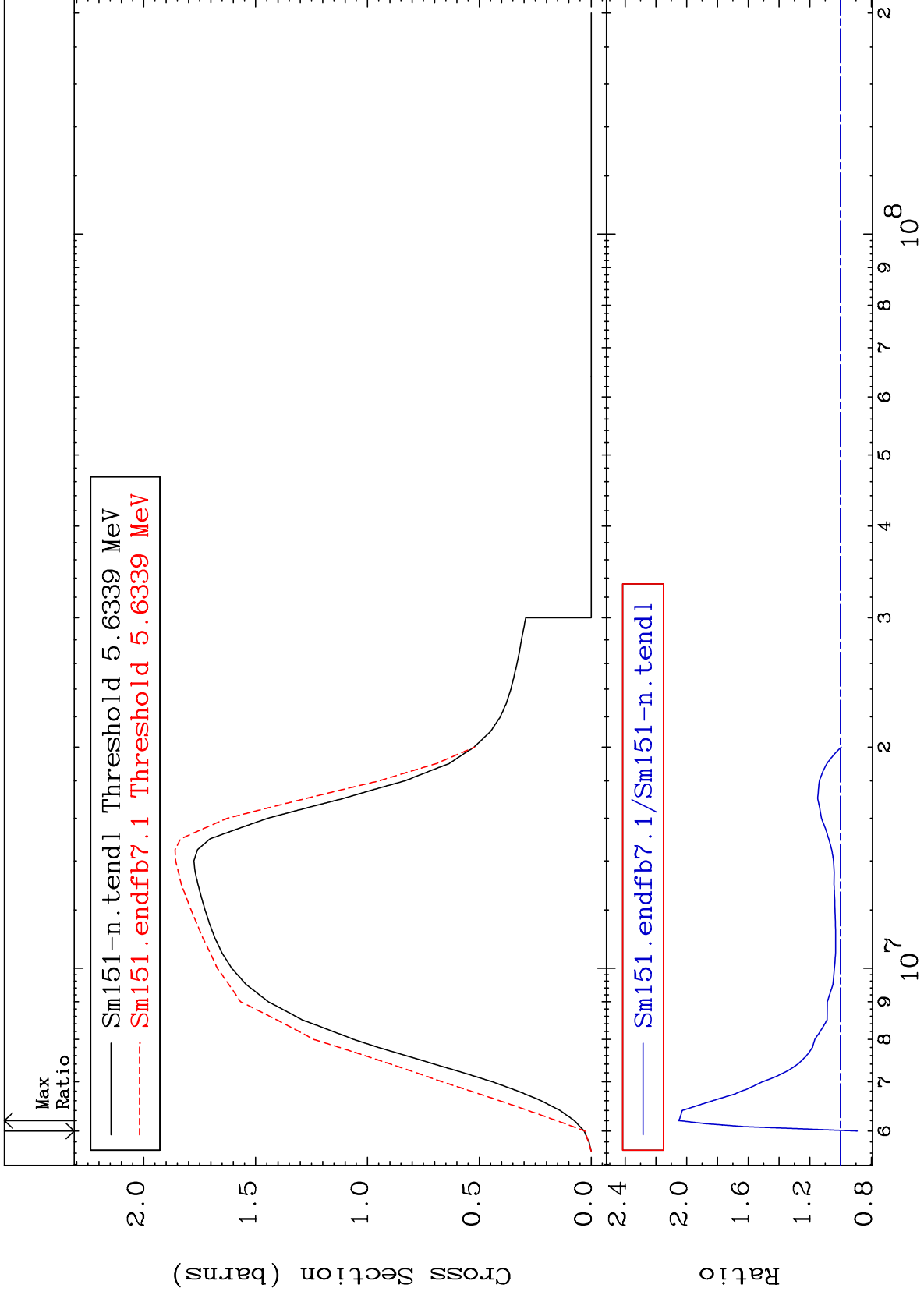
3

62-Sm-151

MAT 6246

(n,2n)  
Cross Section

62-Sm-151  
-10.84 To 105.2 %



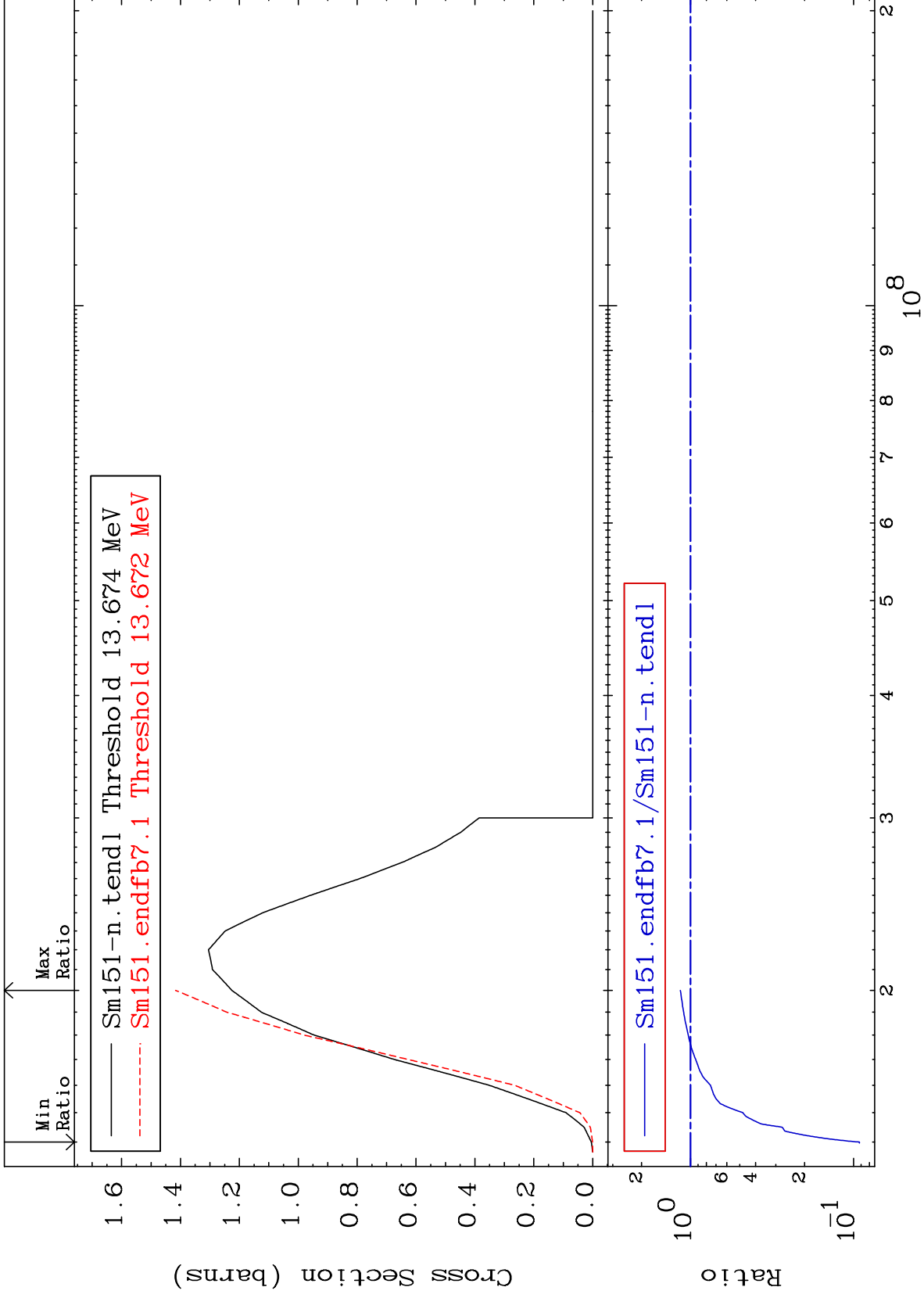
MAT 6246

(n,3n)

62-Sm-151

Cross Section

-90.78 To 15.60 %

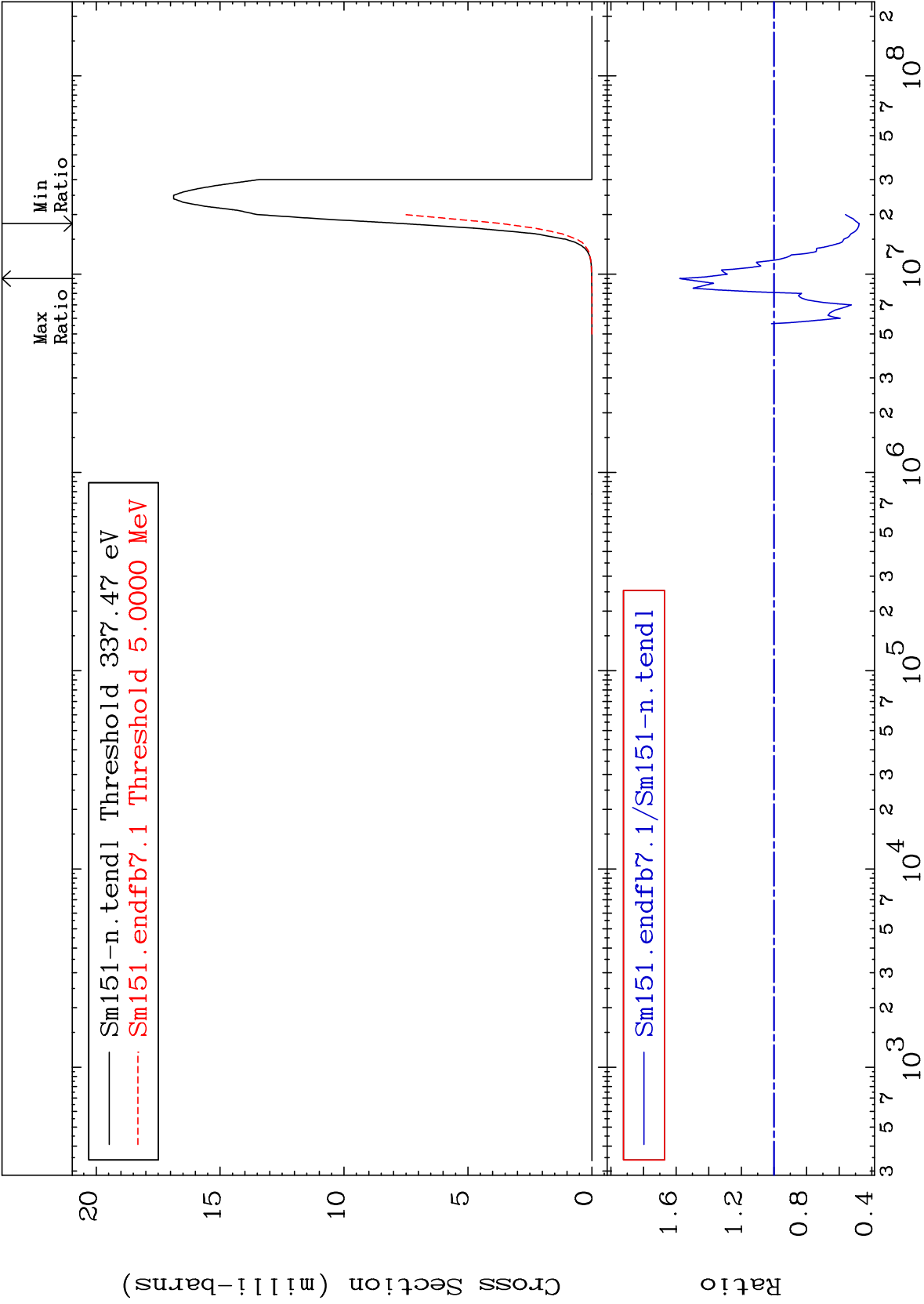


MAT 6246

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

62-Sm-151  
-52.29 To 57.79 %

— Sm151-n.tendl Threshold 337.47 eV  
- - - Sm151.endfb7.1 Threshold 5.0000 MeV



Incident Energy (eV)

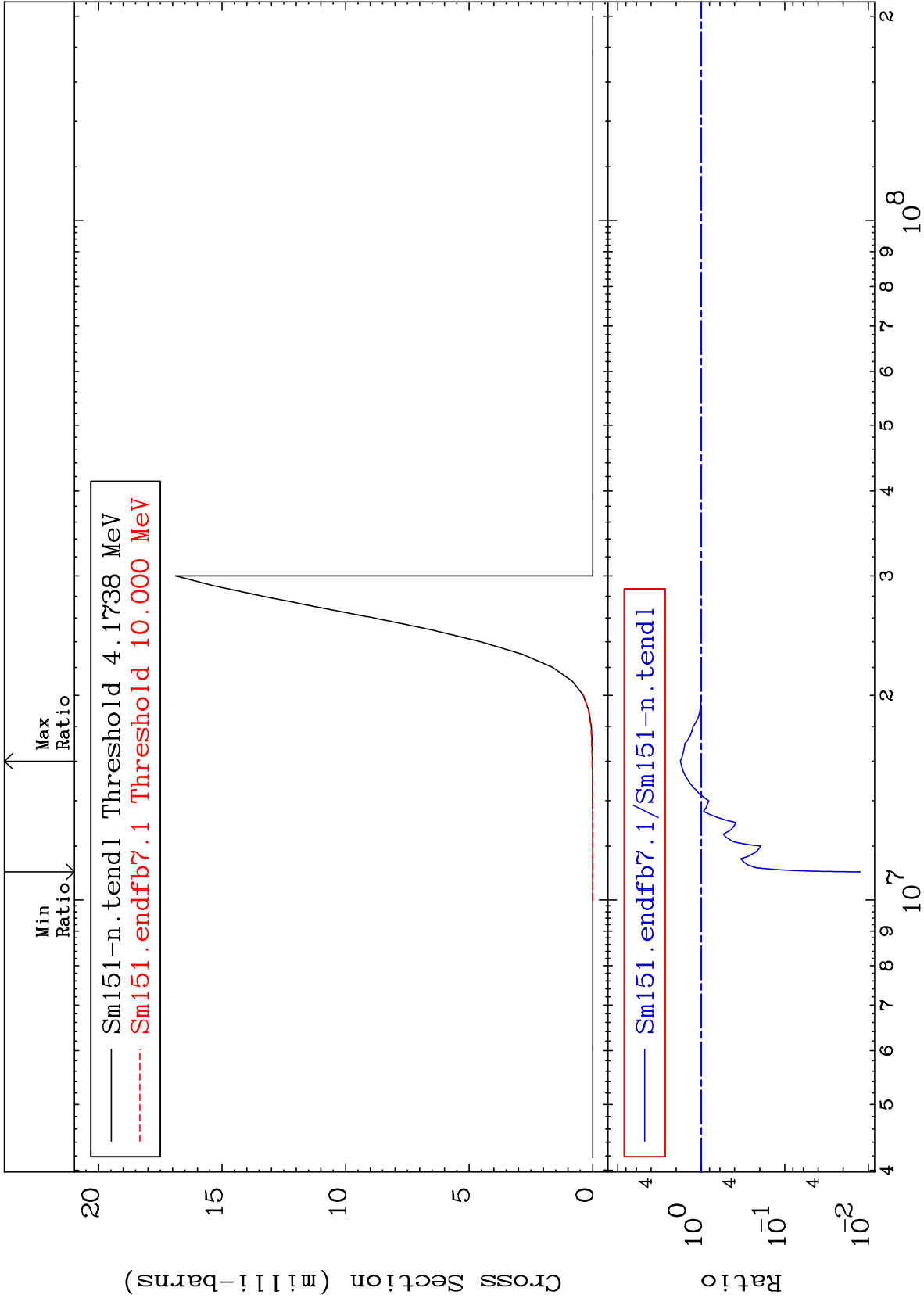
62-Sm-151

6

MAT 6246

(n,2n)  $\alpha$   
Cross Section

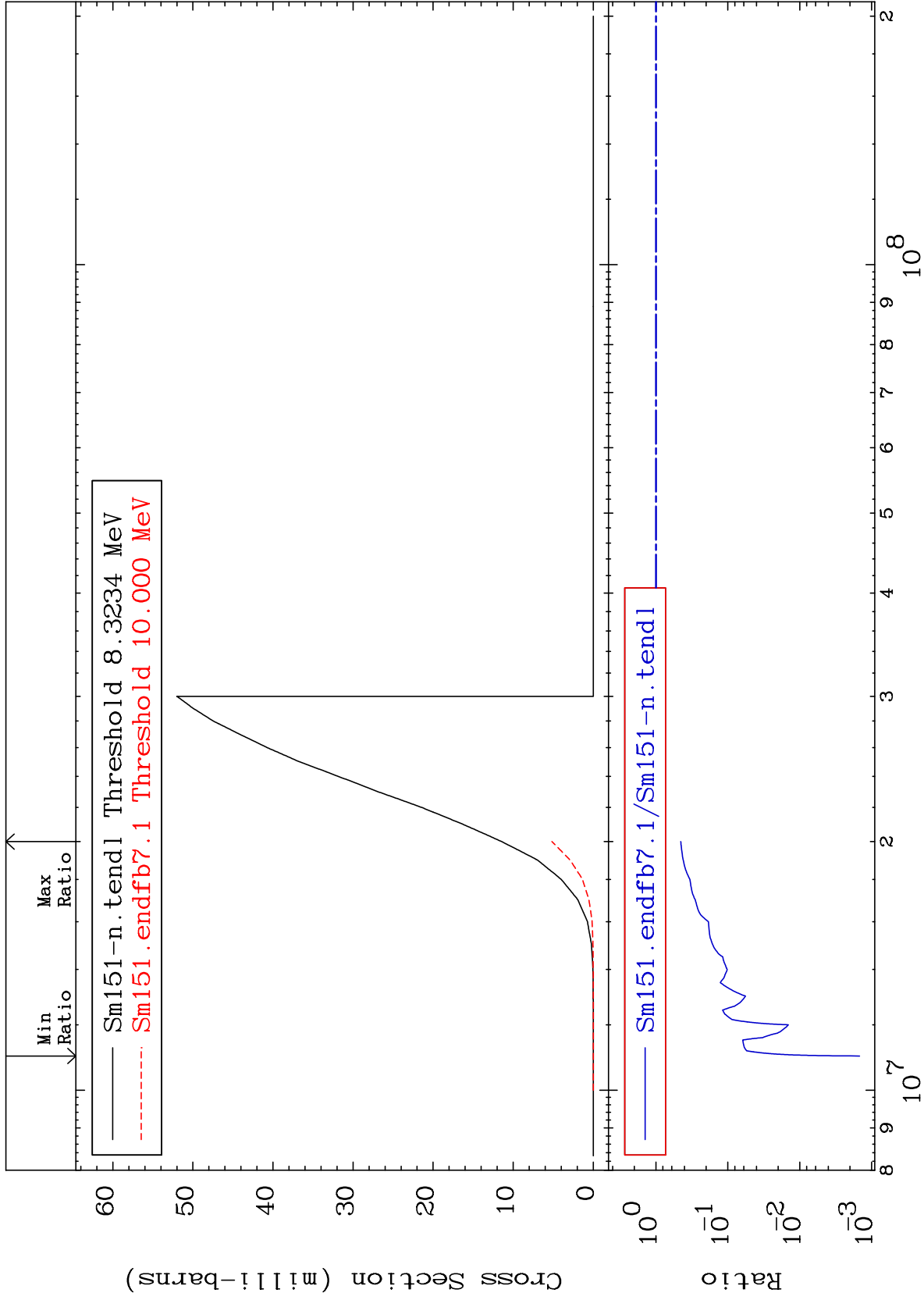
62-Sm-151  
-98.72 To 78.39 %



MAT 6246

(n,n') p  
Cross Section

62-Sm-151  
-99.85 To -54.92%



8

Incident Energy (eV)

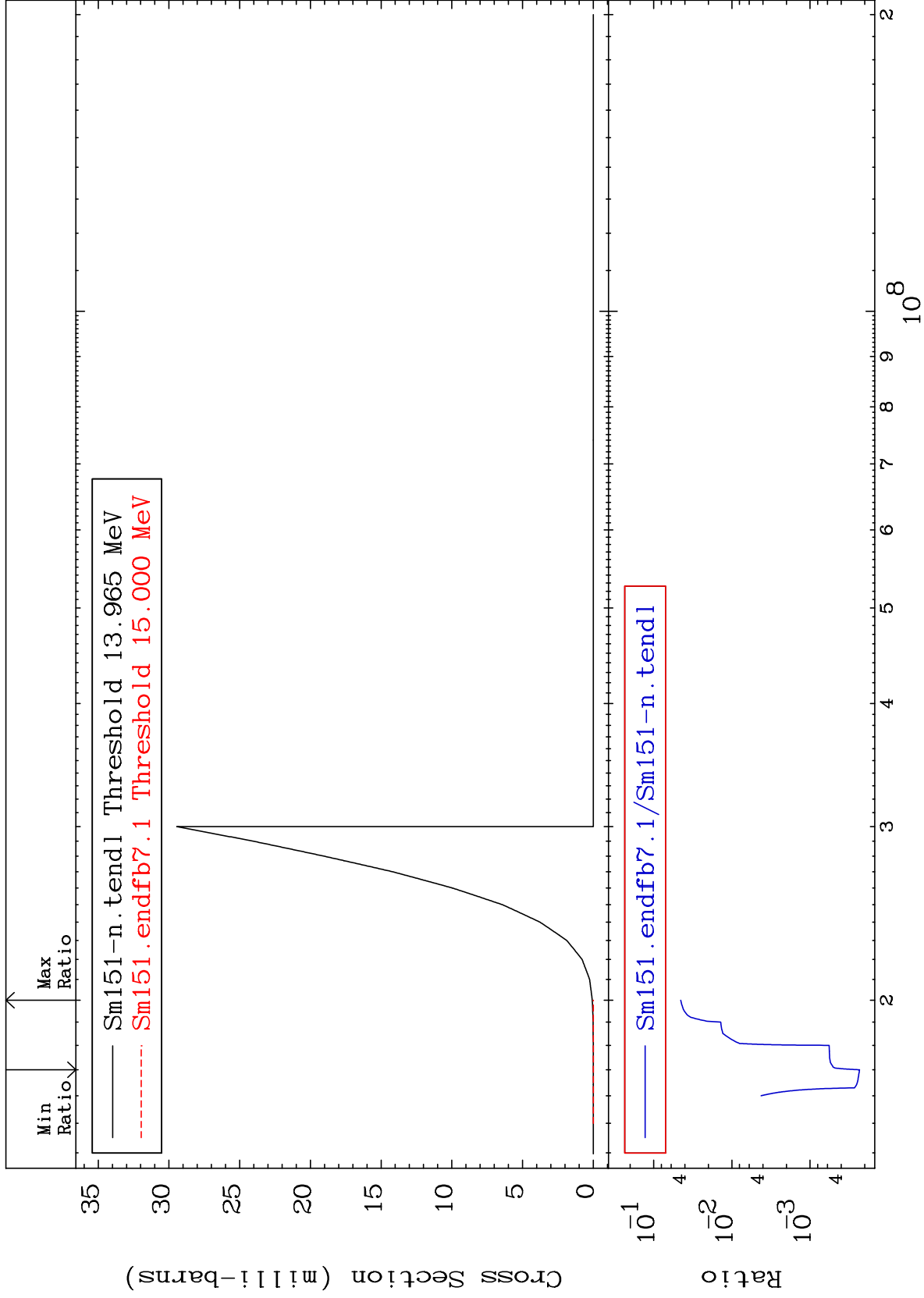
62-Sm-151



MAT 6246

(n,2n) p  
Cross Section

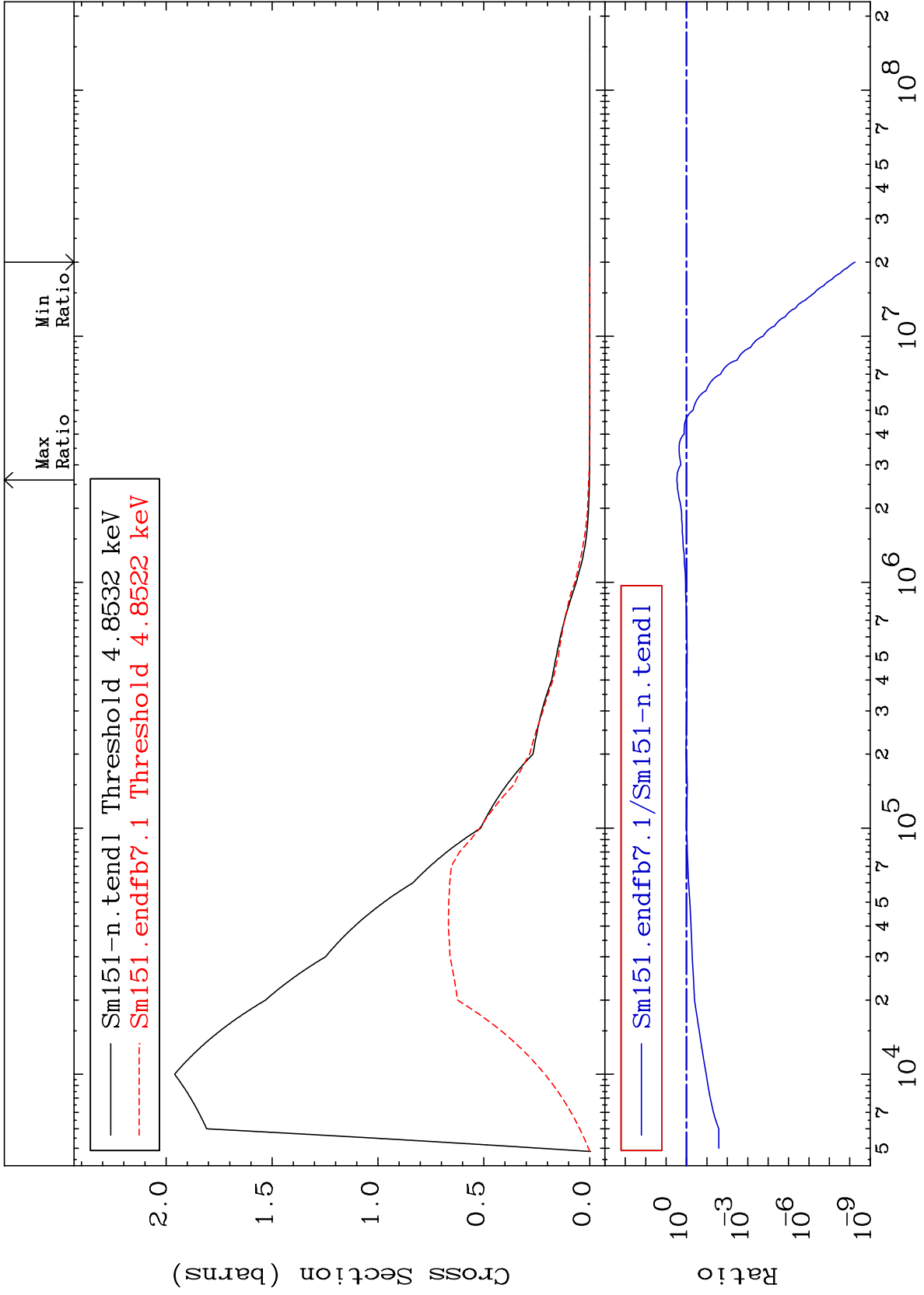
62-Sm-151  
-99.98 To -95.49%



MAT 6246

4.821 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 195.0 %



10

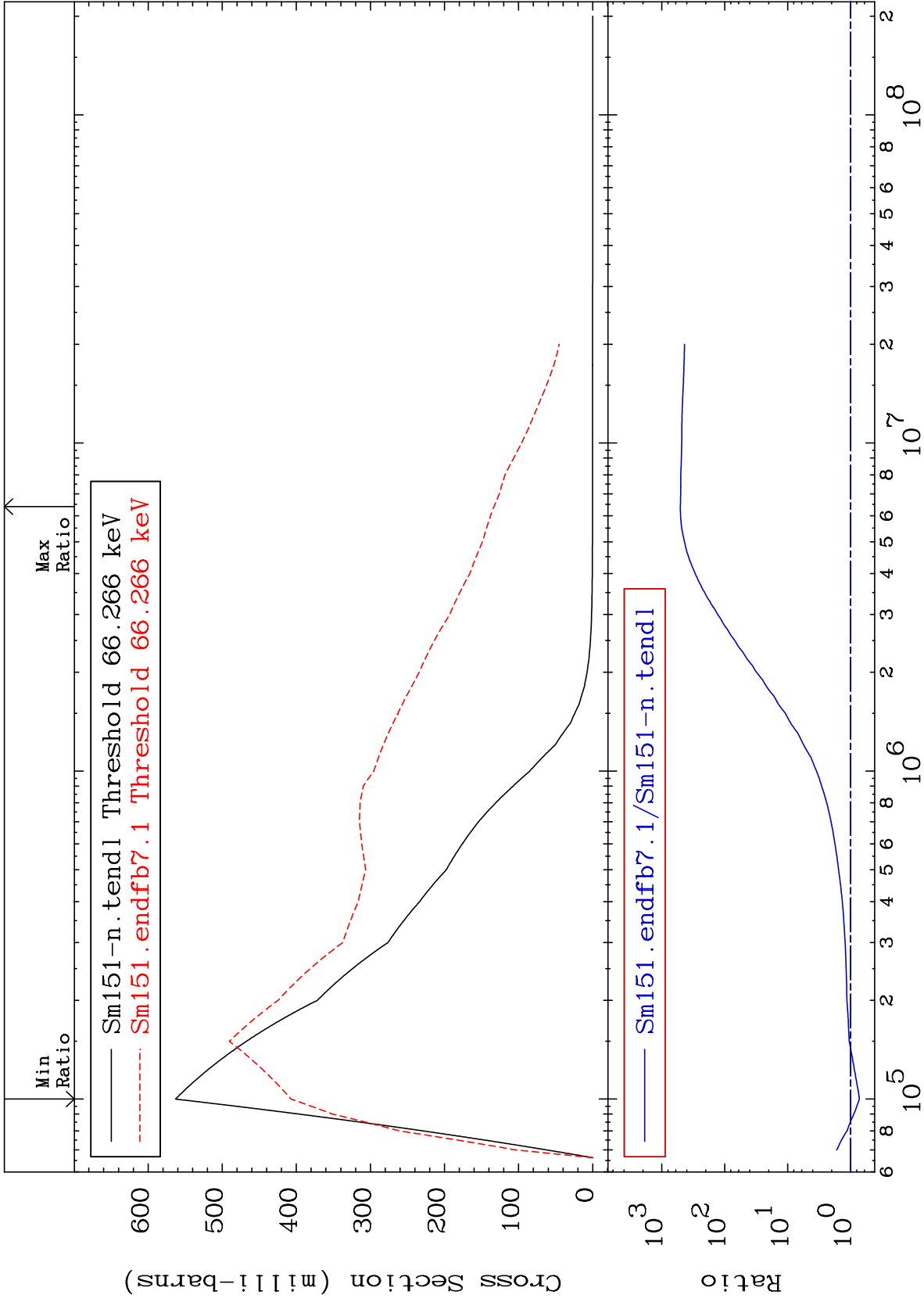
Incident Energy (eV)

62-Sm-151

MAT 6246

65.83 keV (n,n') Level  
Cross Section

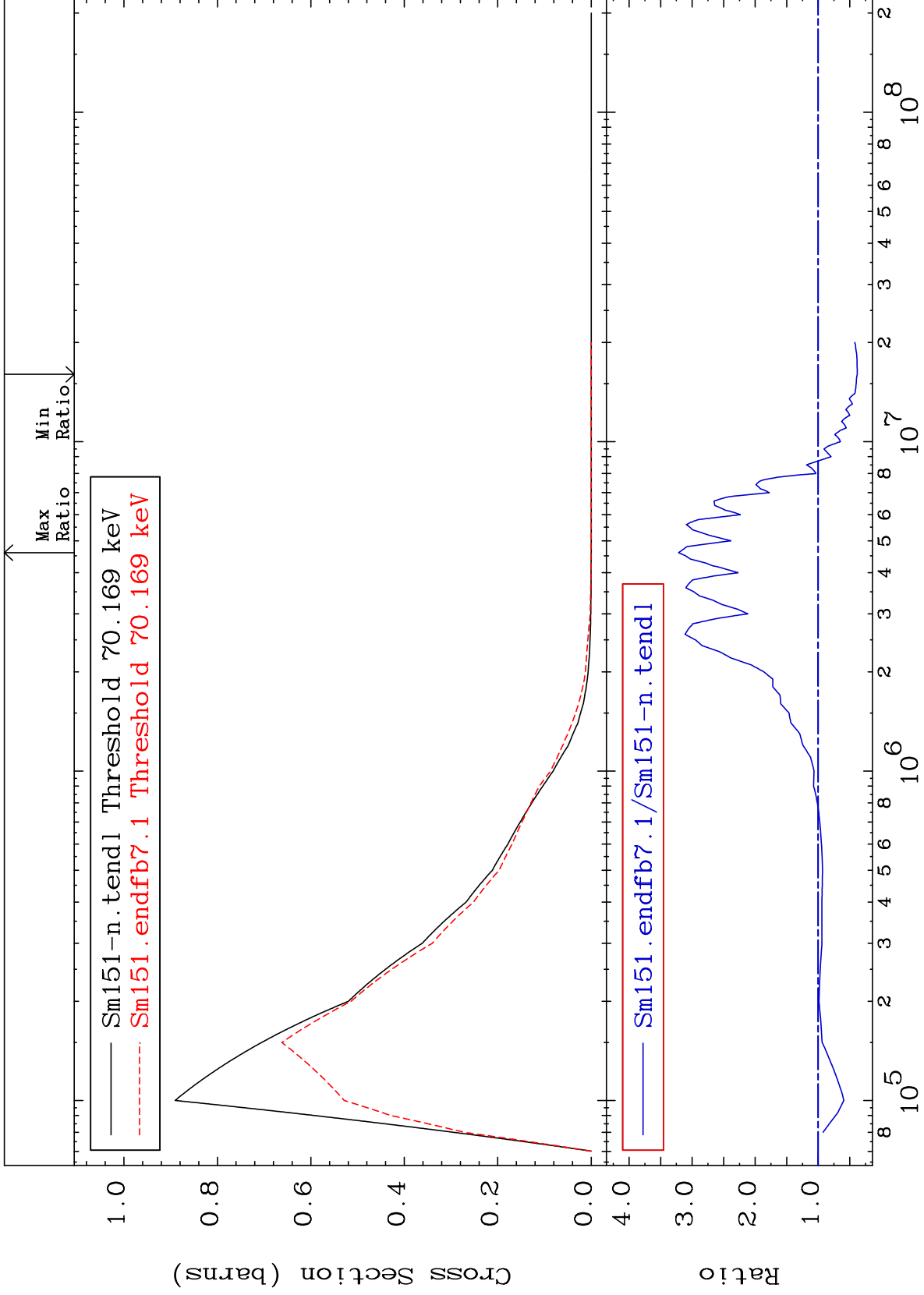
62-Sm-151  
-27.70 To 9999. %



MAT 6246

69.70 keV (n,n') Level  
Cross Section

62-Sm-151  
-61.91 To 221.4 %



12

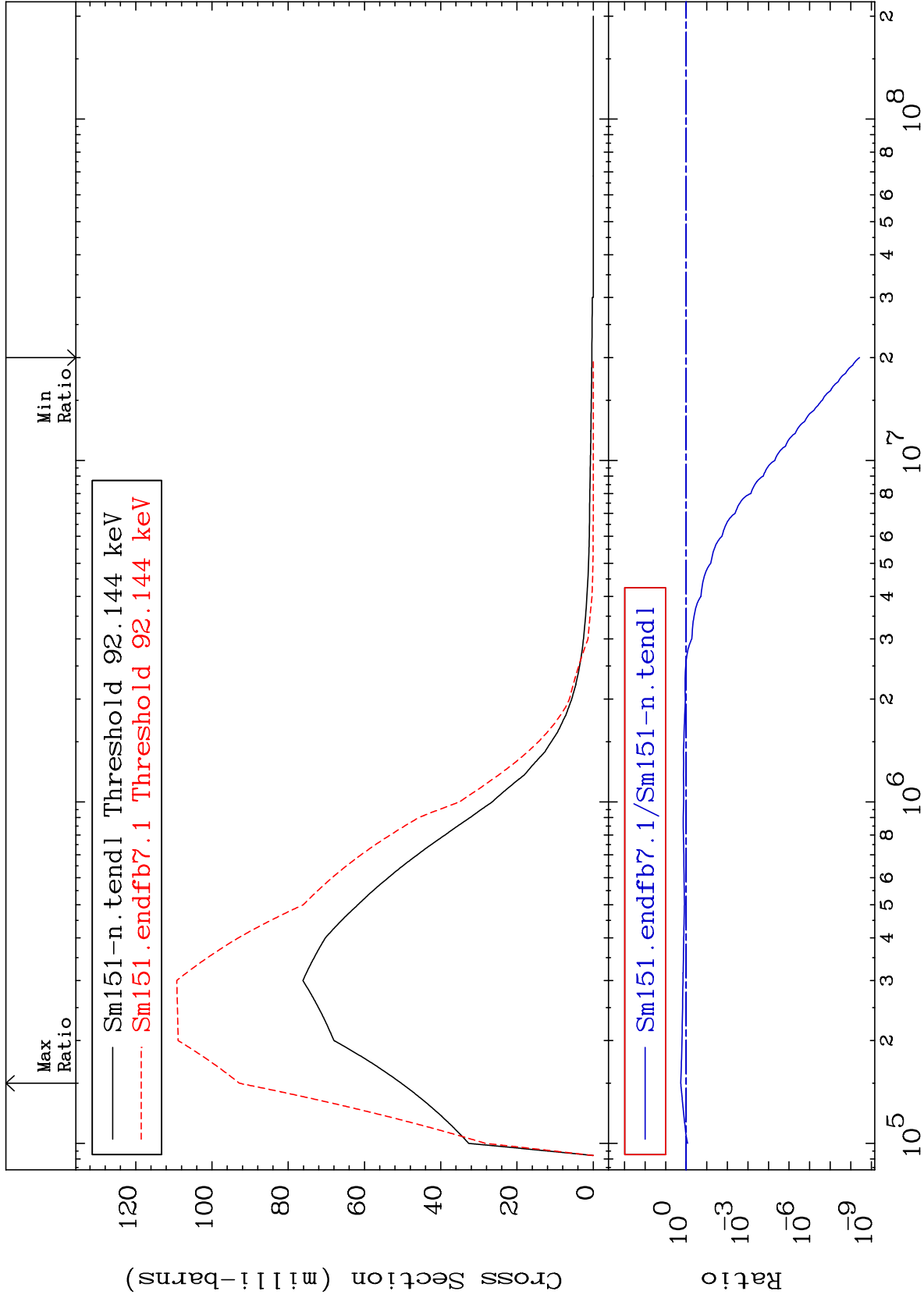
Incident Energy (eV)

62-Sm-151

MAT 6246

91.53 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 84.39 %



13

Incident Energy (eV)

62-Sm-151

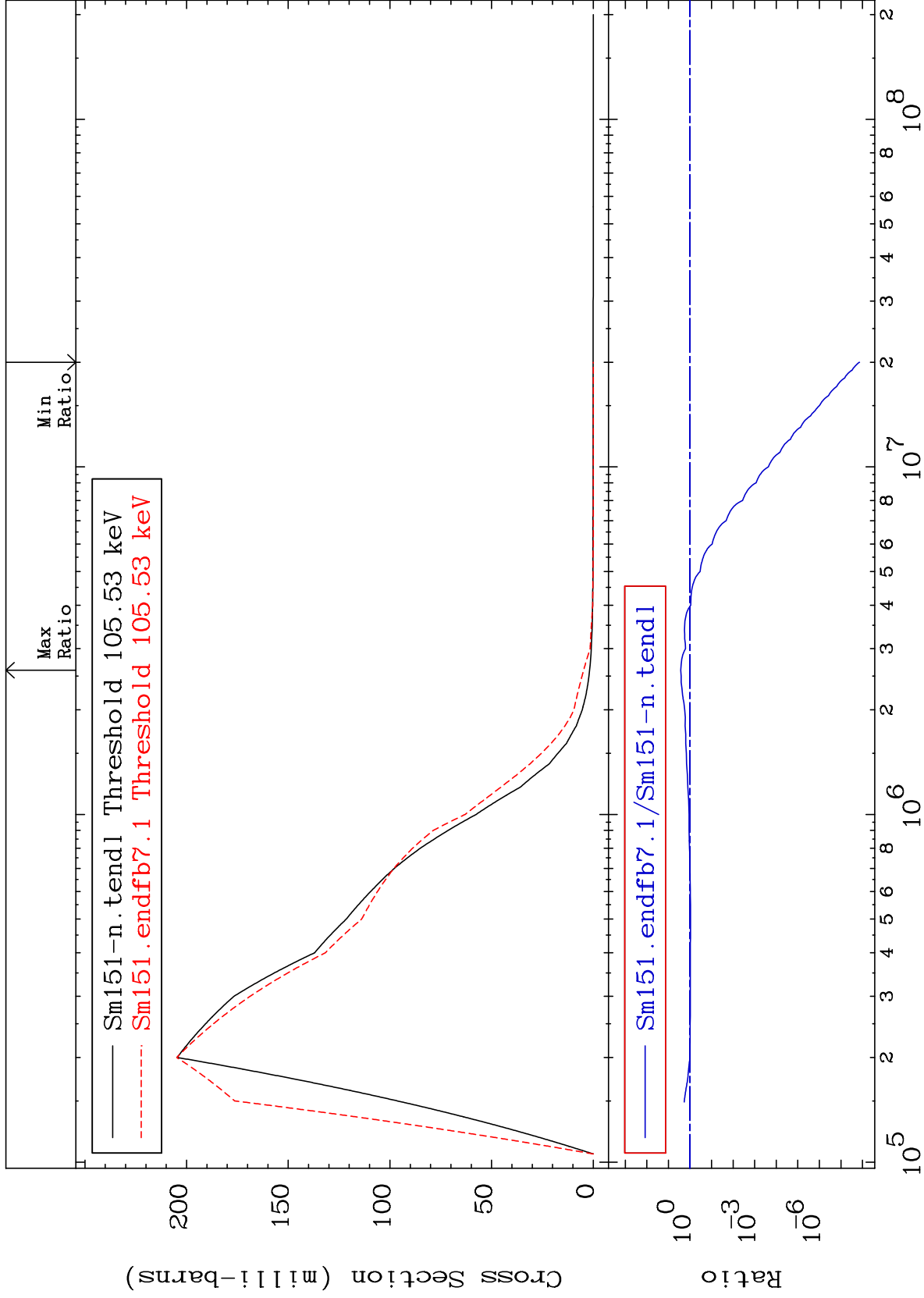
MAT 6246

104.8 keV (n,n') Level

62-Sm-151

-100.0 To 166.6 %

Cross Section



14

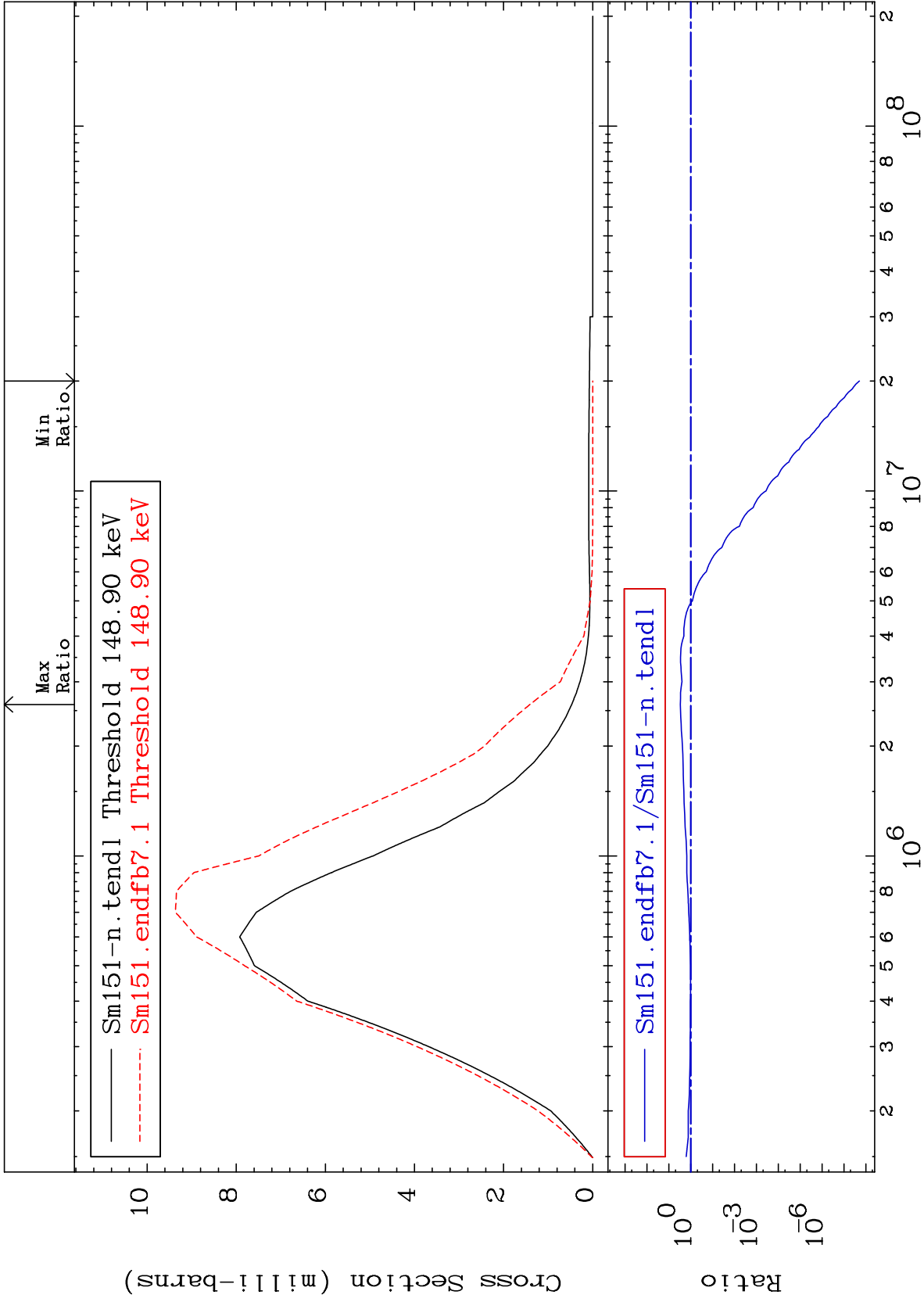
Incident Energy (eV)

62-Sm-151

MAT 6246

147.9 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 199.6 %



15

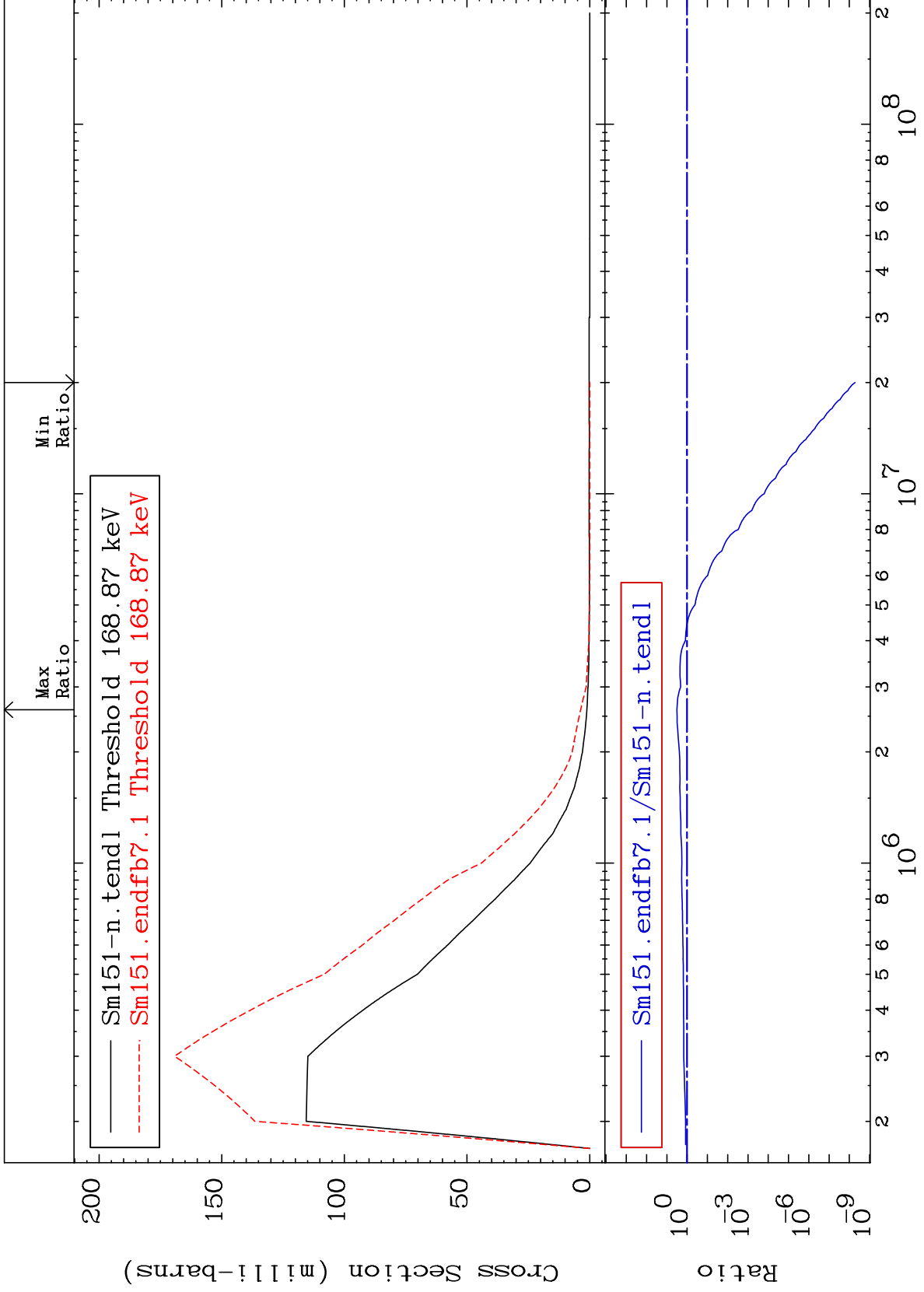
Incident Energy (eV)

62-Sm-151

MAT 6246

167.7 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 218.2 %

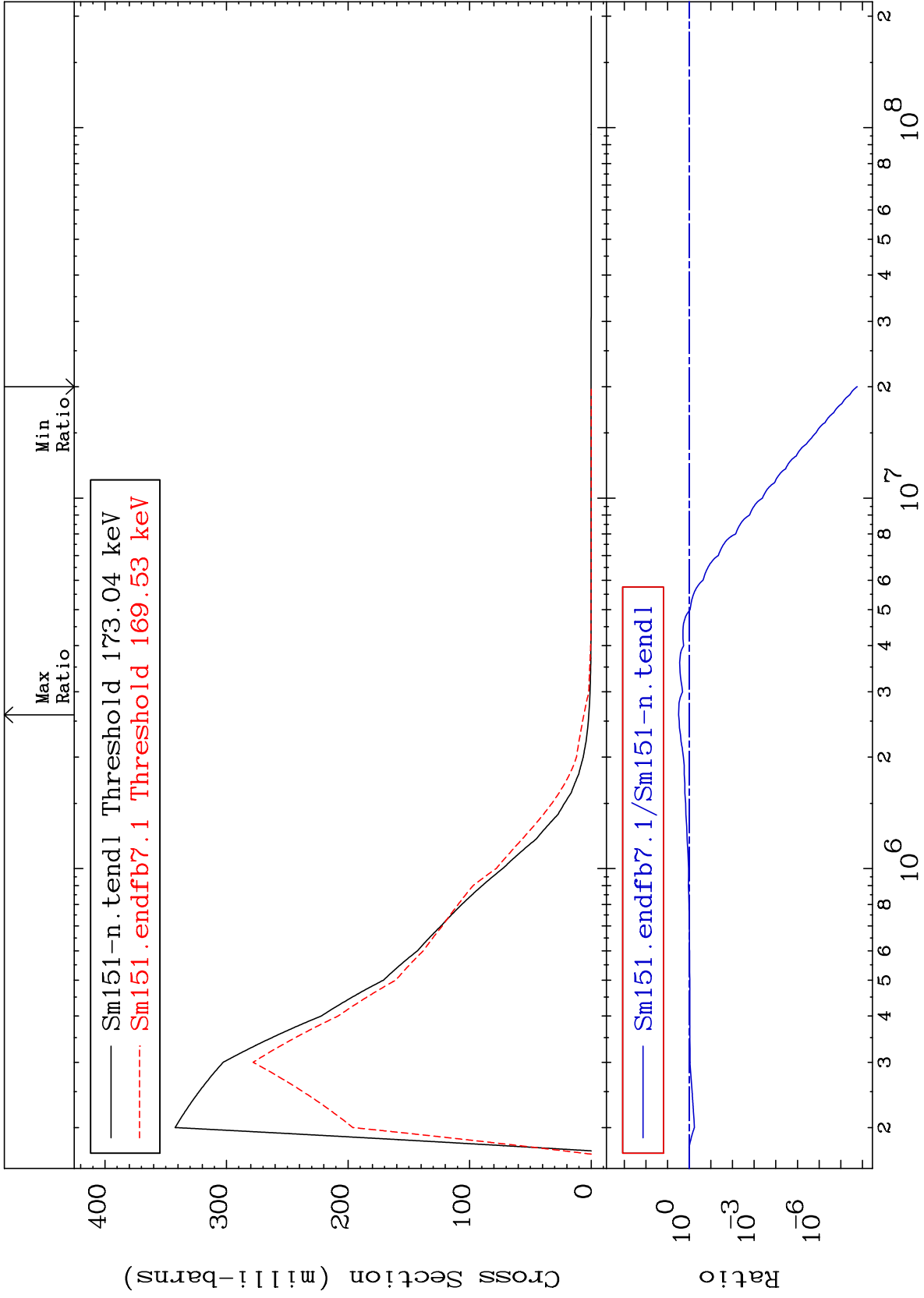




MAT 6246

171.9 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 207.4 %



17

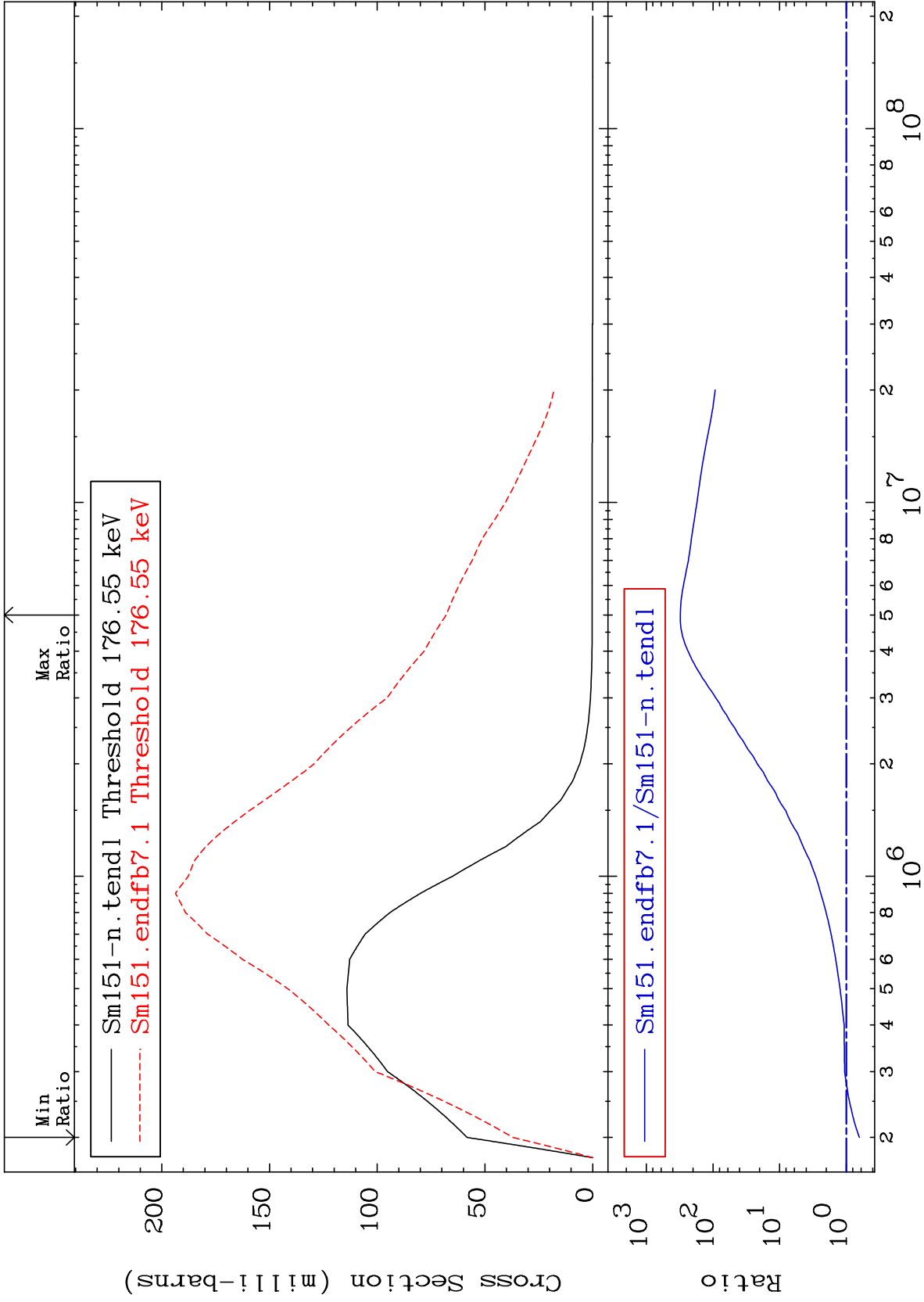
Incident Energy (eV)

62-Sm-151

MAT 6246

175.4 keV (n,n') Level  
Cross Section

62-Sm-151  
-36.45 To 9999. %



18

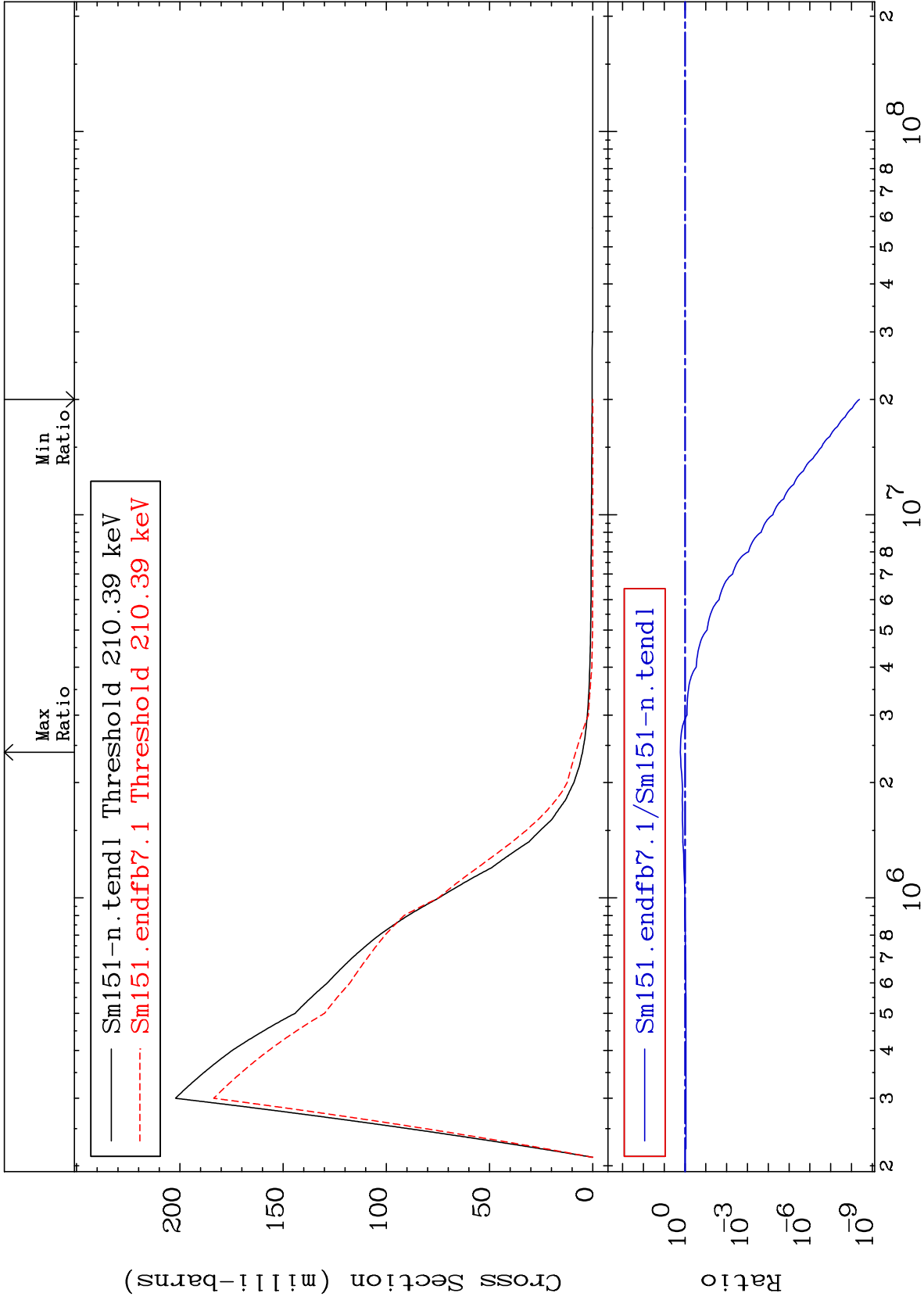
Incident Energy (eV)

62-Sm-151

MAT 6246

209.0 keV (n,n') Level  
Cross Section

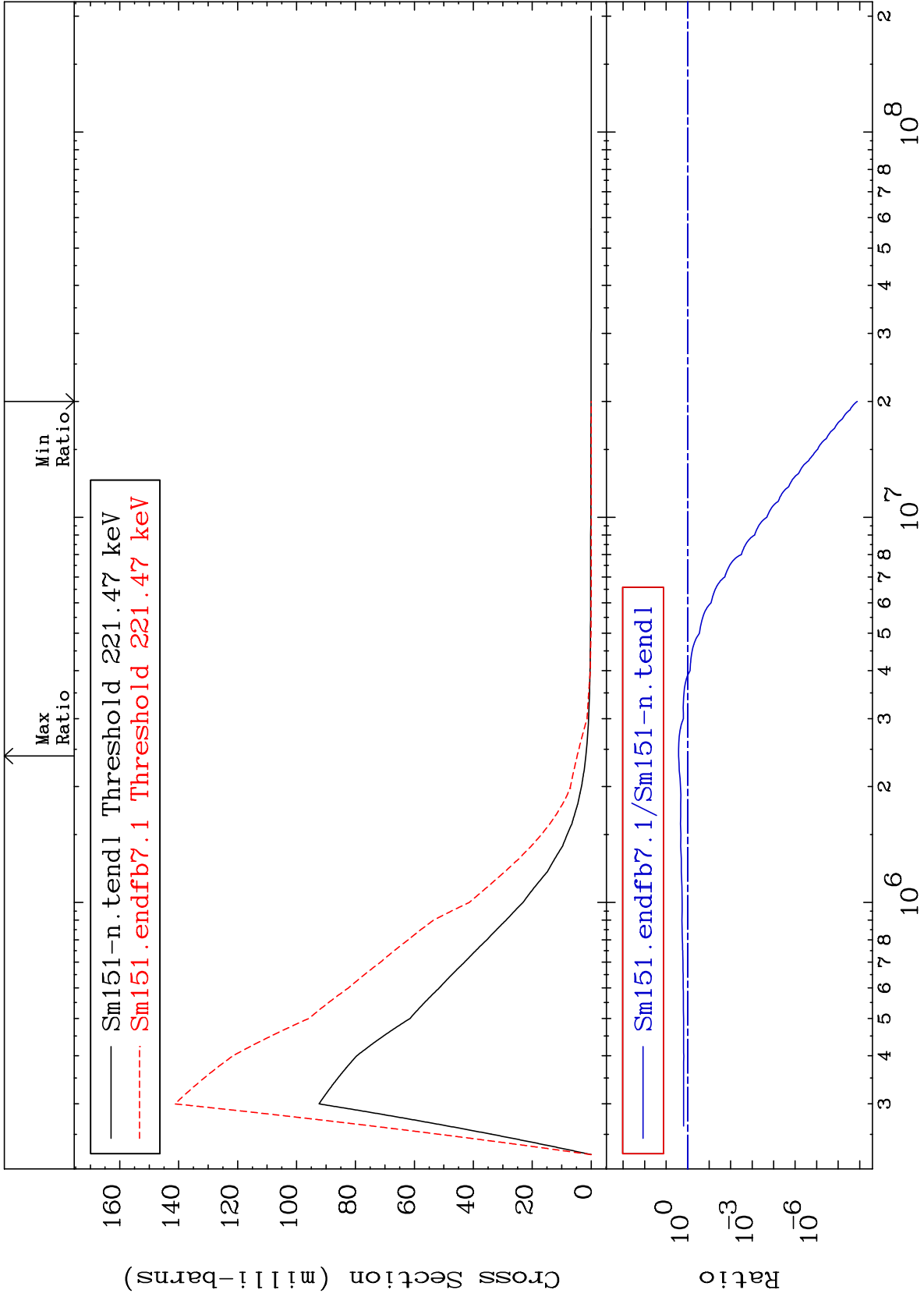
62-Sm-151  
-100.0 To 67.29 %



MAT 6246

220.0 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 162.4 %



20

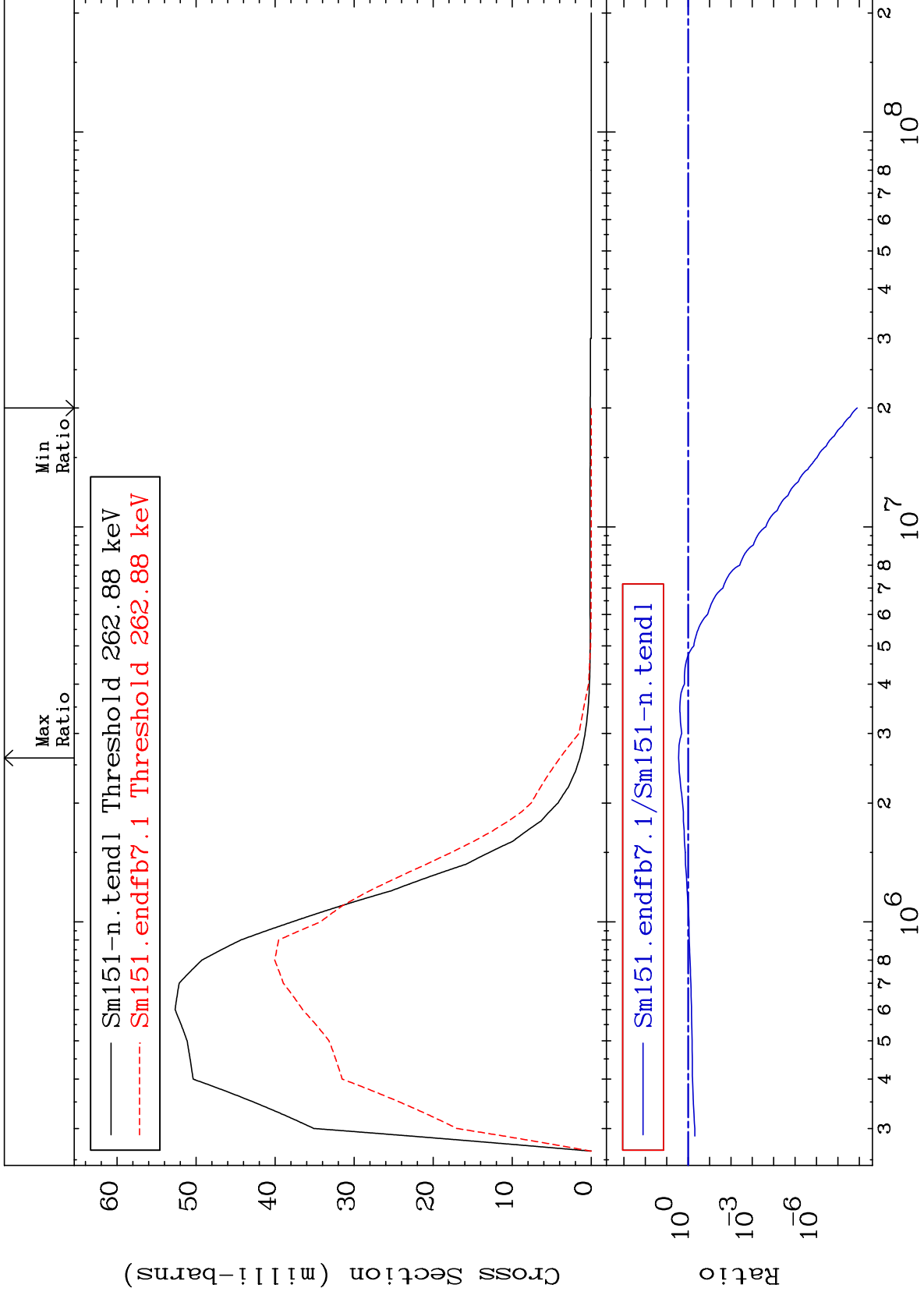
Incident Energy (eV)

62-Sm-151

MAT 6246

261.1 keV (n,n') Level  
Cross Section

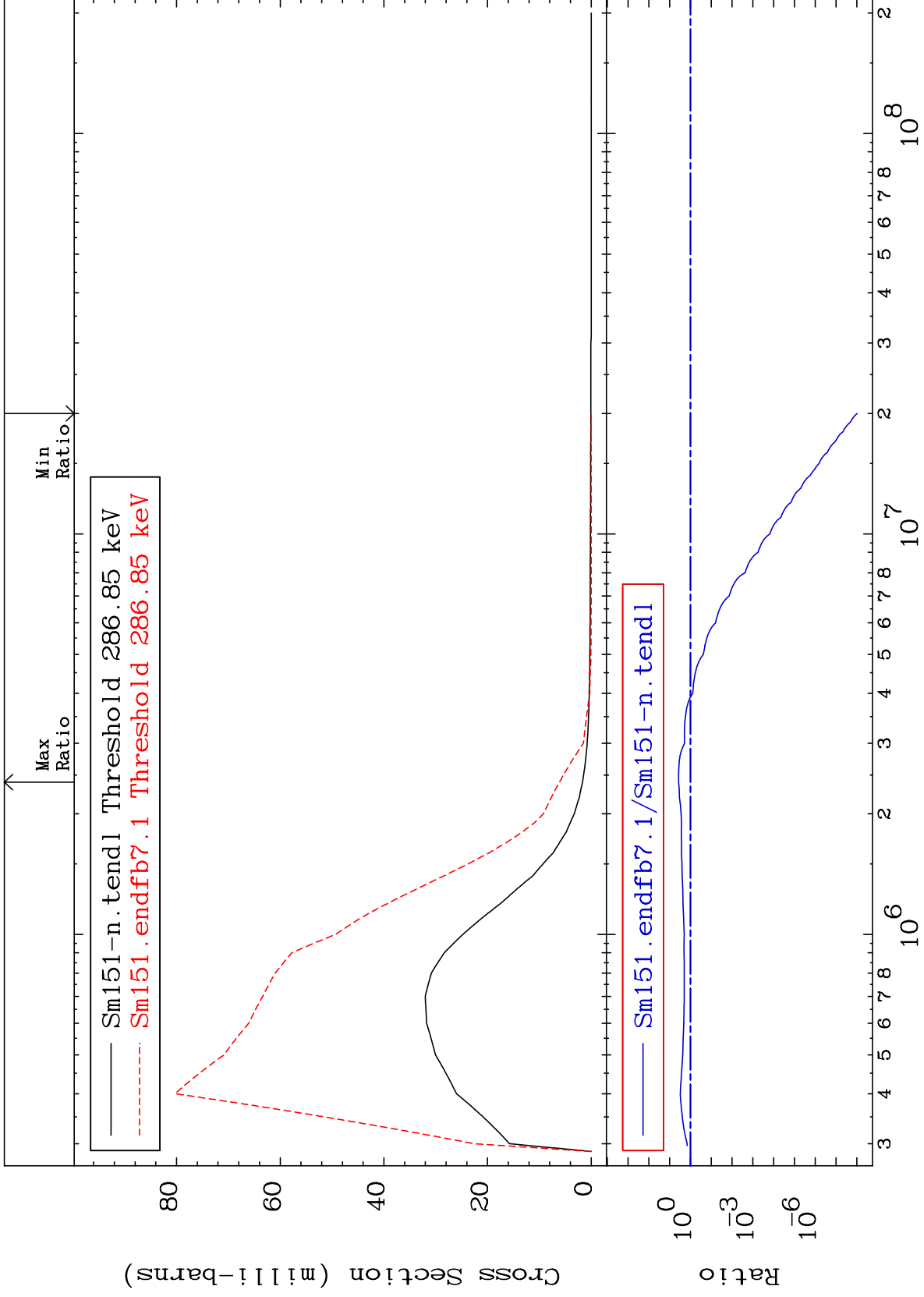
62-Sm-151  
-100.0 To 176.2 %



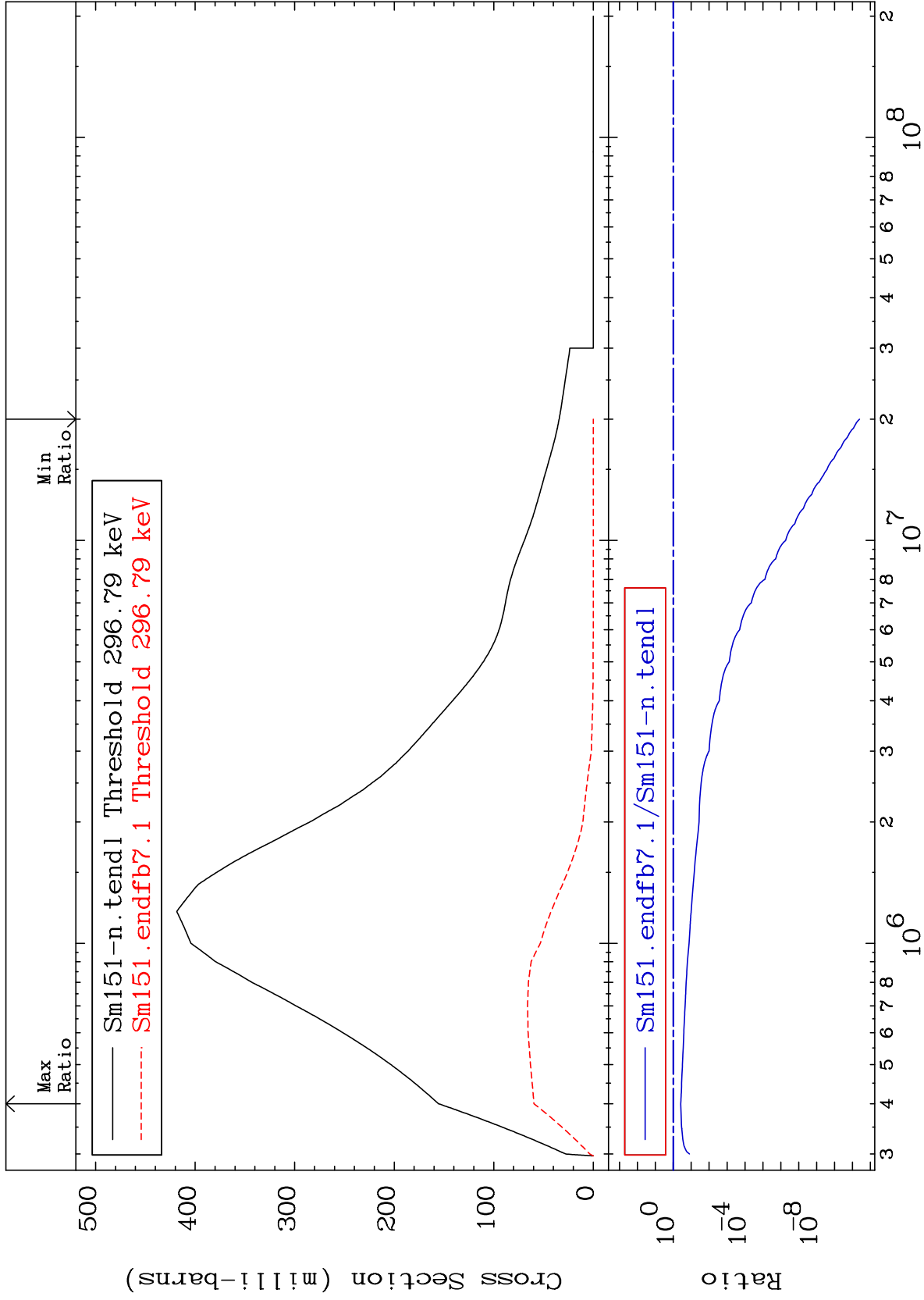
MAT 6246

285.0 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 267.8 %



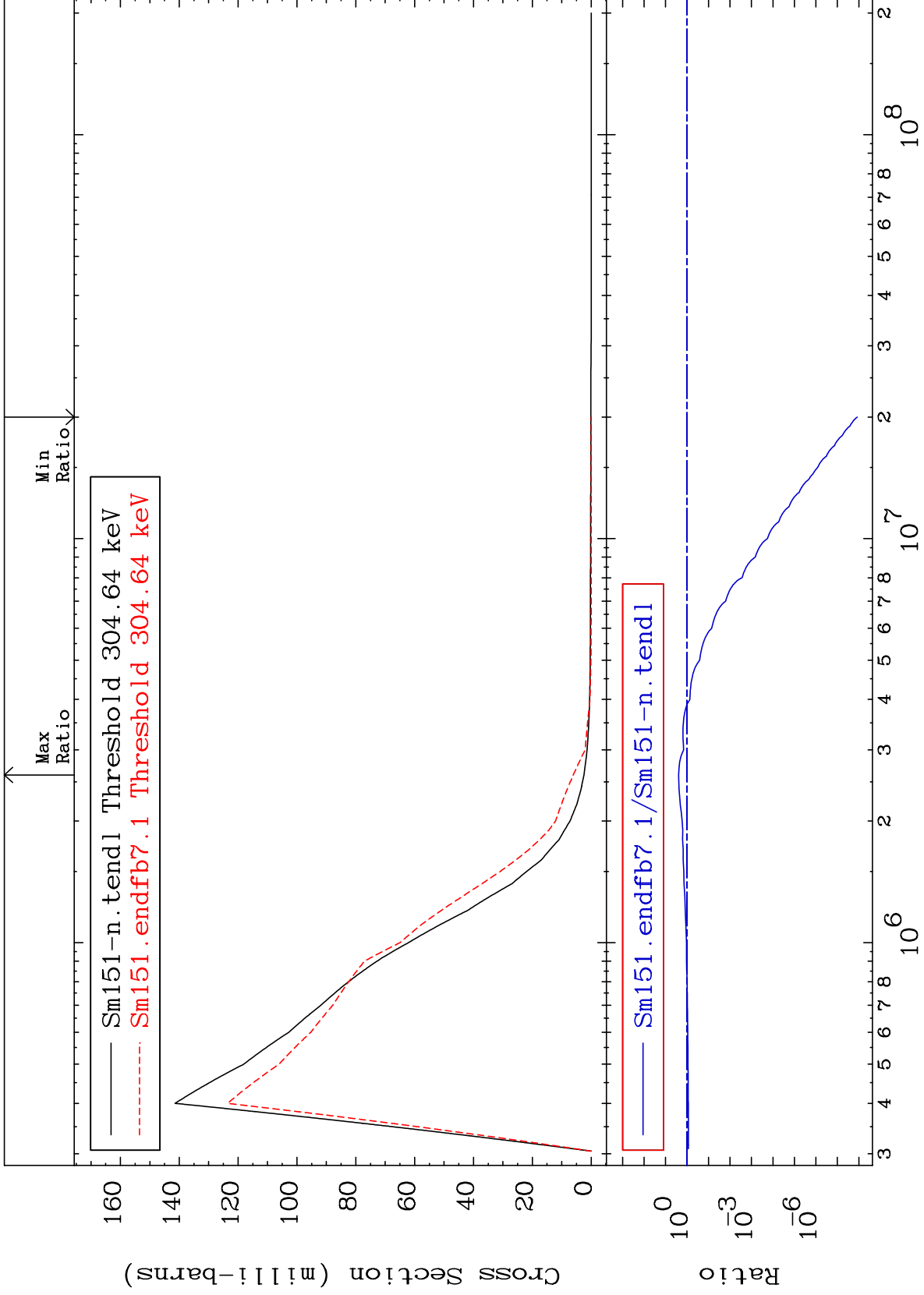
MAT 6246      294.8 keV (n,n') Level      62-Sm-151  
 Cross Section      -100.0 To -61.69%



MAT 6246

302.6 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 145.3 %



24

Incident Energy (eV)

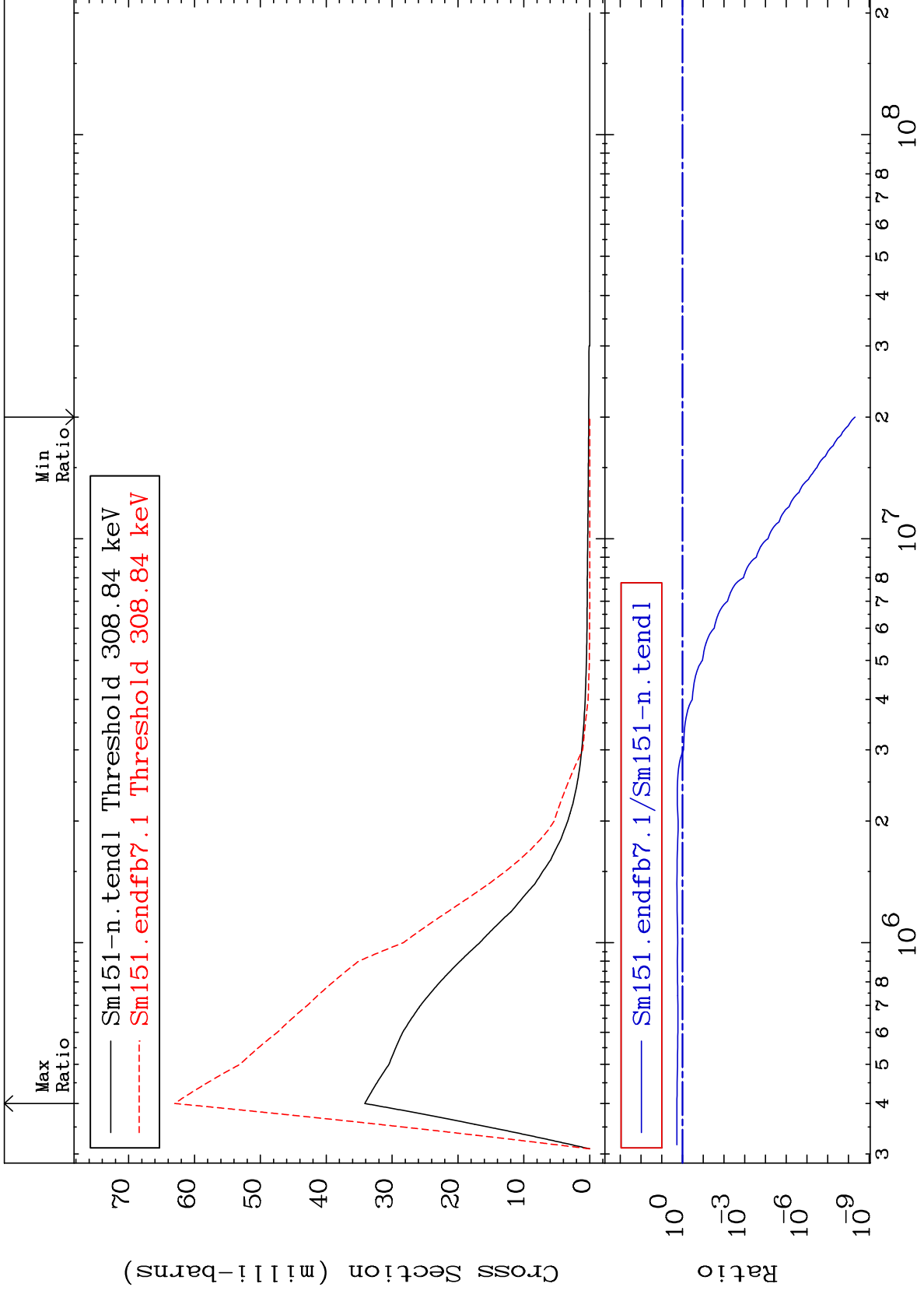
62-Sm-151



MAT 6246

306.8 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 84.57 %



25

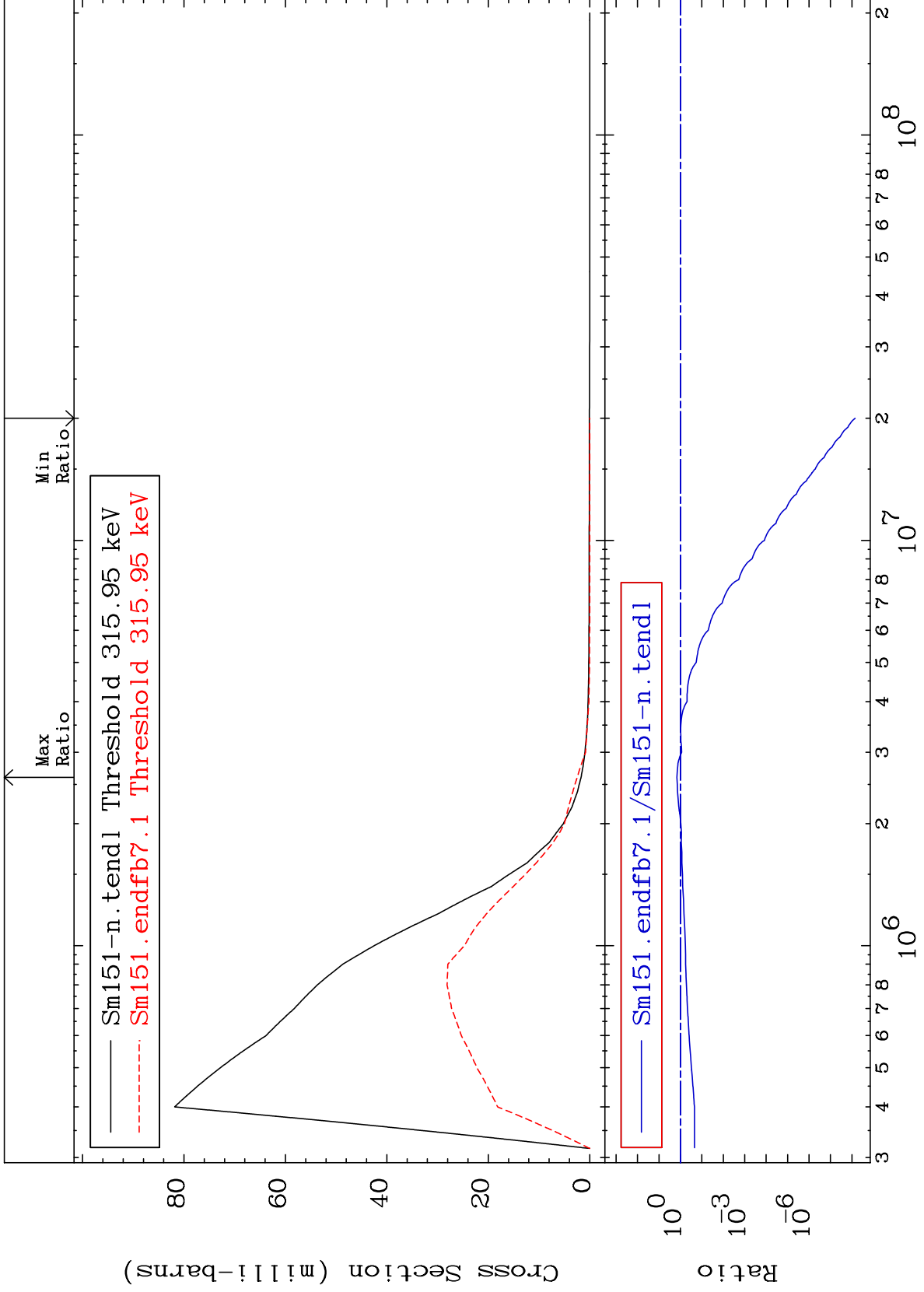
Incident Energy (eV)

62-Sm-151

MAT 6246

313.8 keV (n,n') Level  
Cross Section

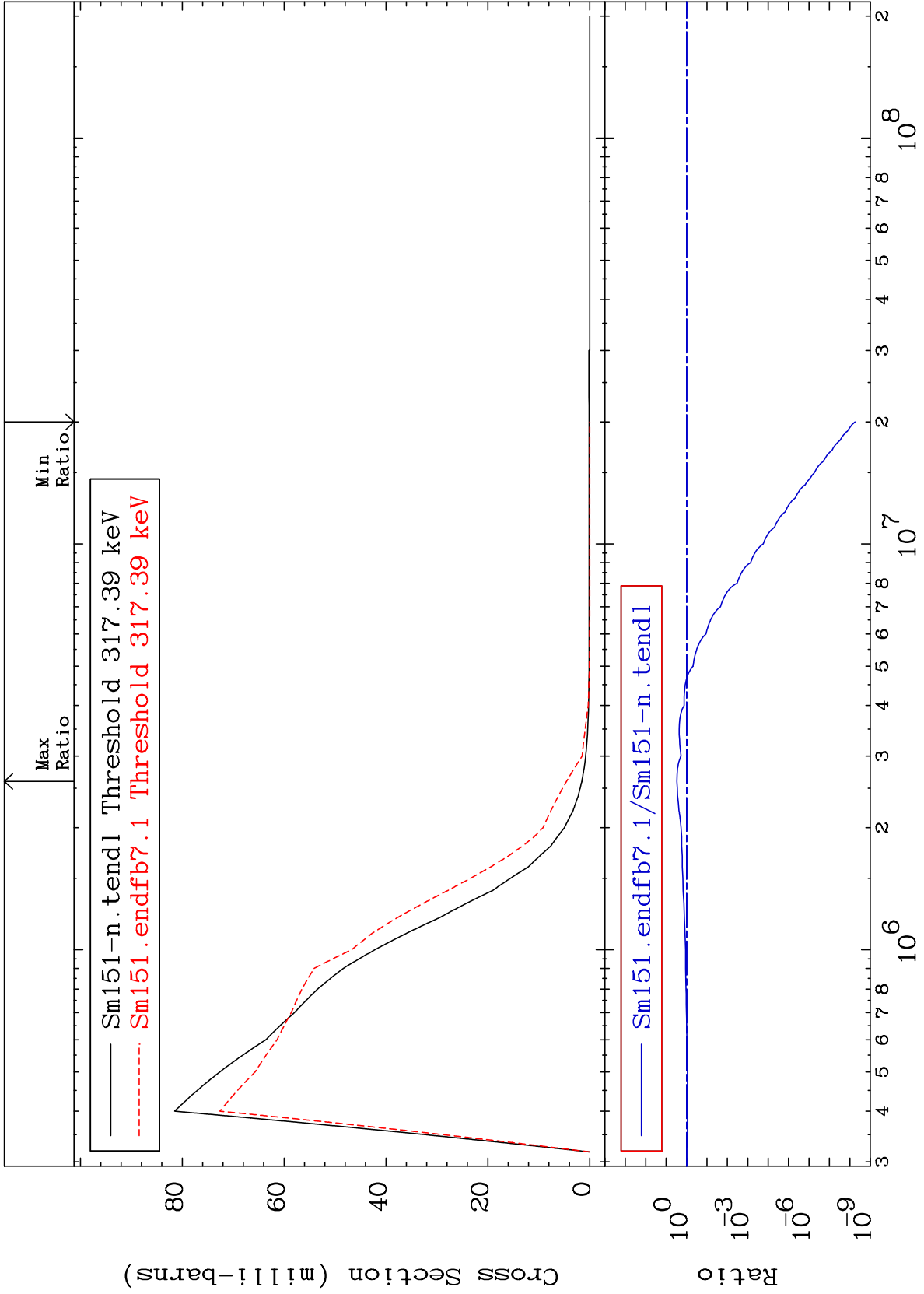
62-Sm-151  
-100.0 To 45.39 %



MAT 6246

315.3 keV (n,n') Level  
Cross Section

62-Sm-151  
-100.0 To 195.8 %



27

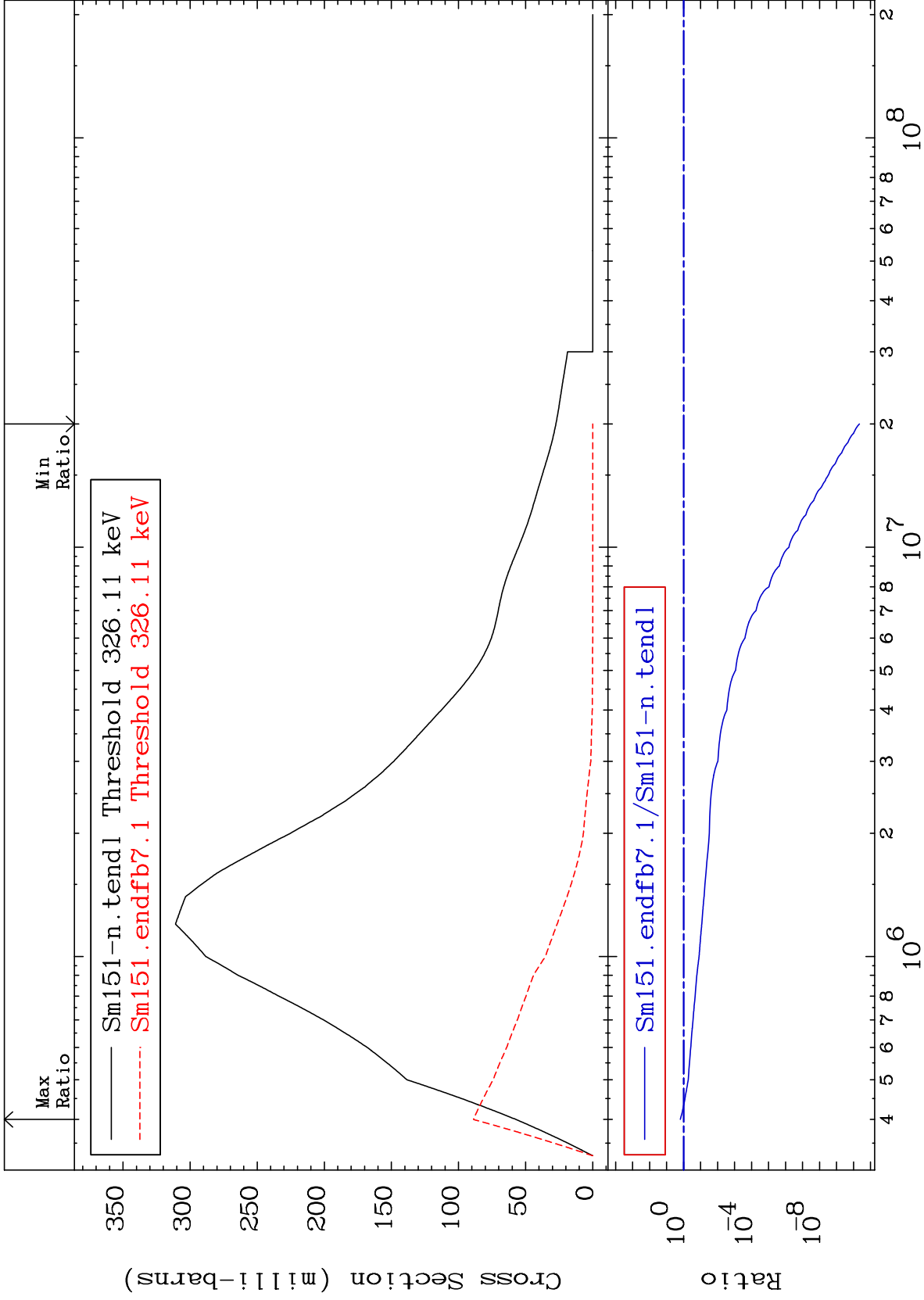
62-Sm-151

62-Sm-151

MAT 6246

323.9 keV (n,n') Level  
Cross Section

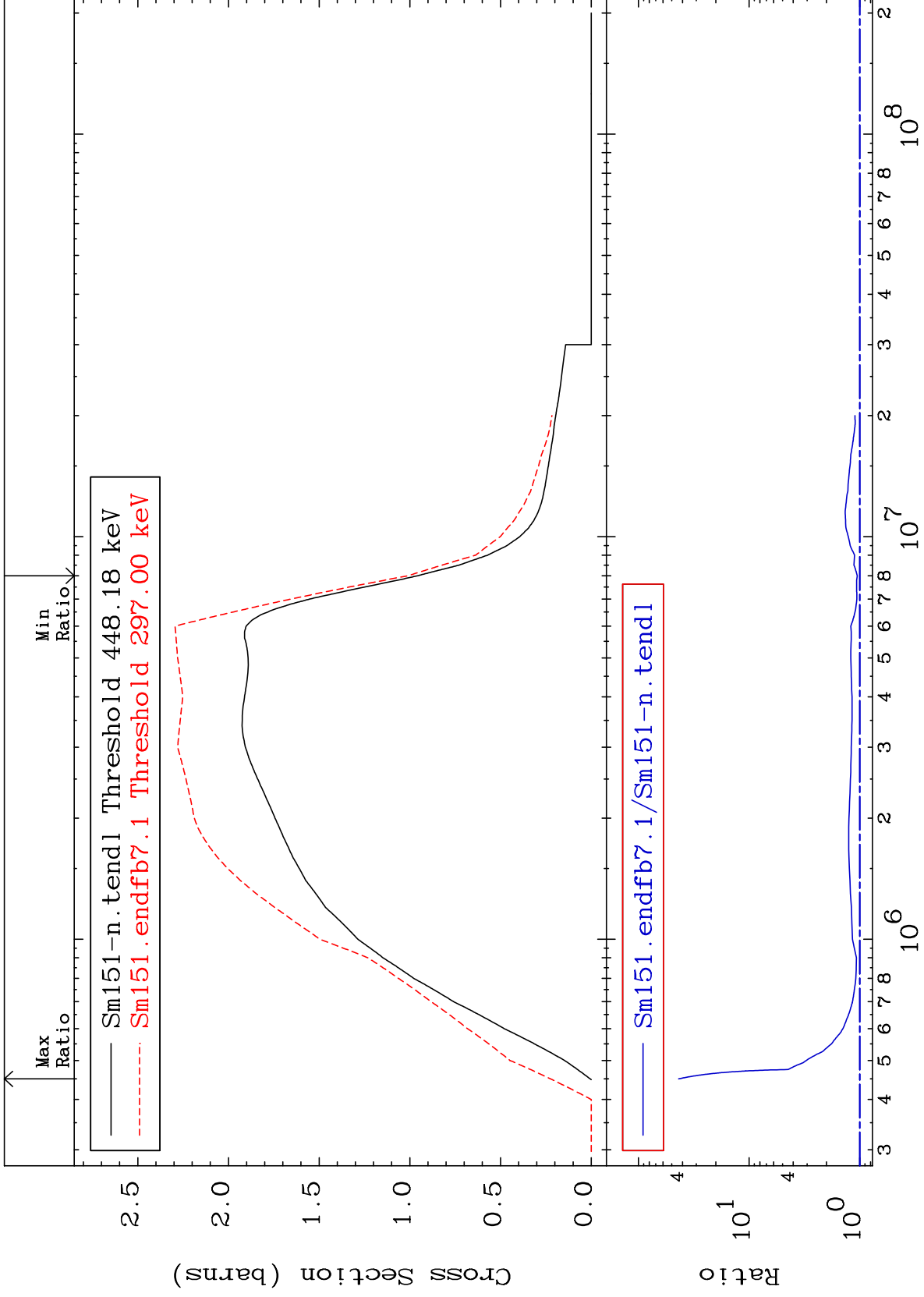
62-Sm-151  
-100.0 To 55.33 %



MAT 6246

(n, n') Continuum  
Cross Section

62-Sm-151  
5.538 To 4239. %



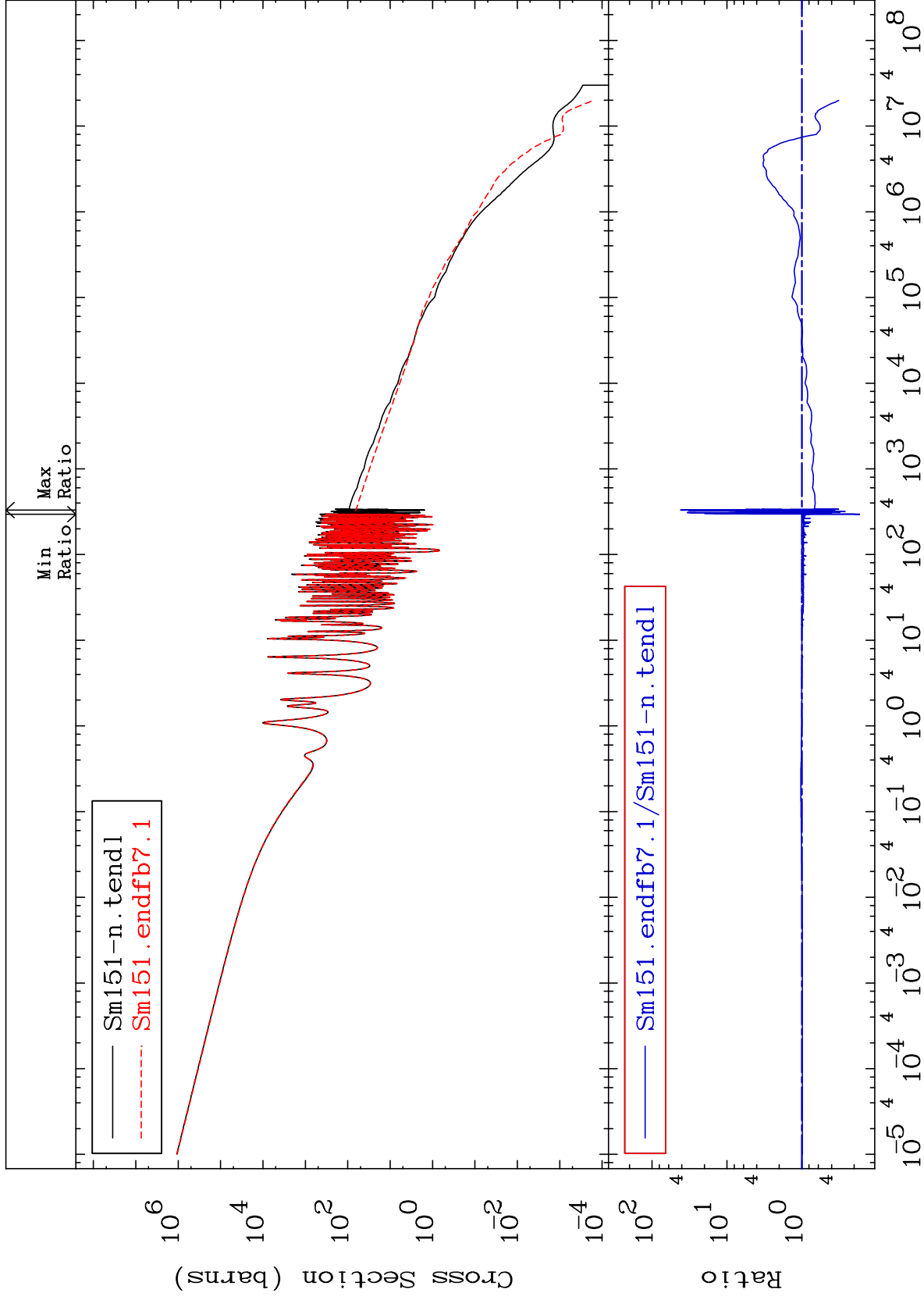
MAT 6246

(n,  $\gamma$ )

62-Sm-151

Cross Section

-83.06 To 4030. %



30

Incident Energy (eV)

62-Sm-151

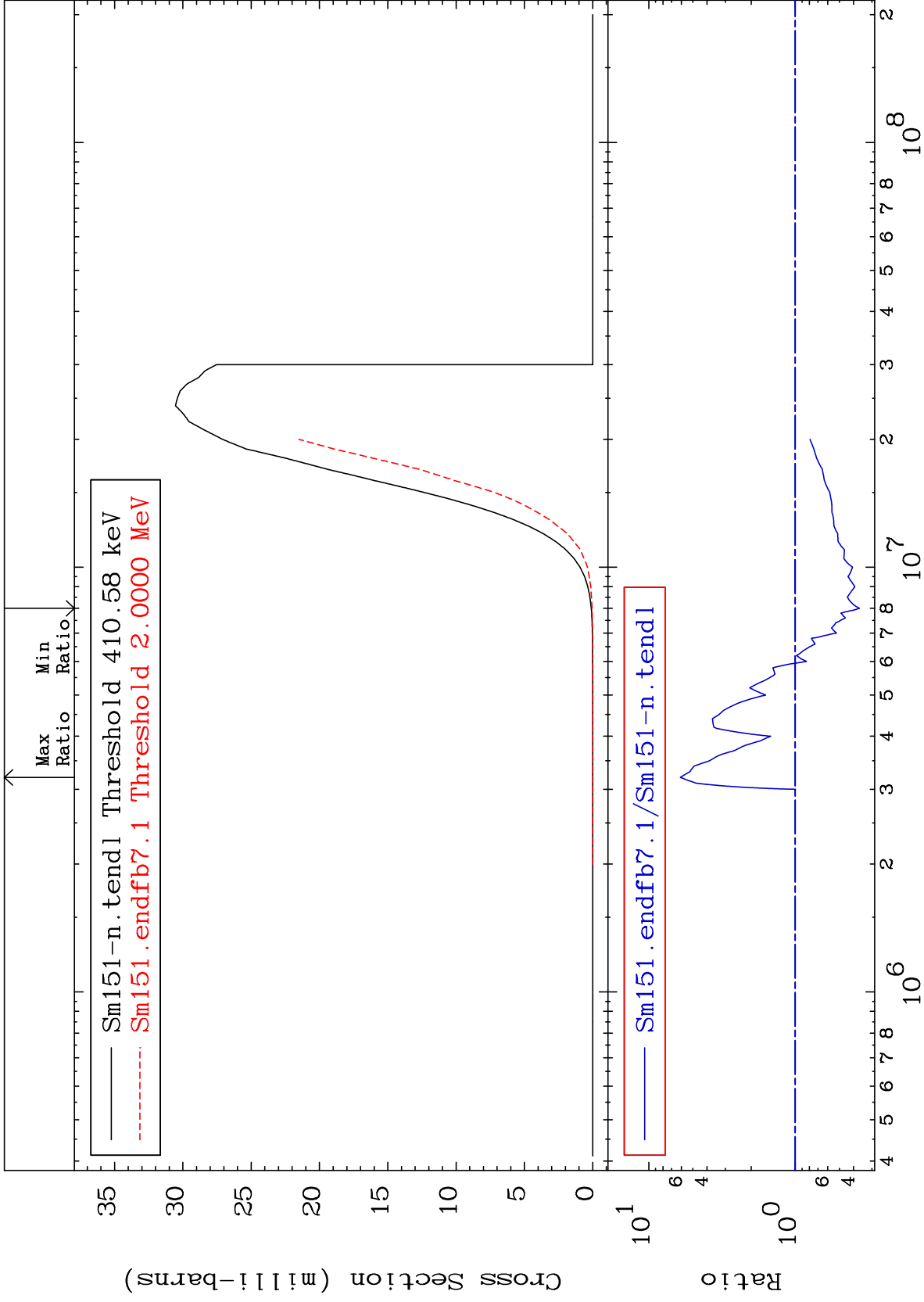
MAT 6246

(n,p)

62-Sm-151

Cross Section

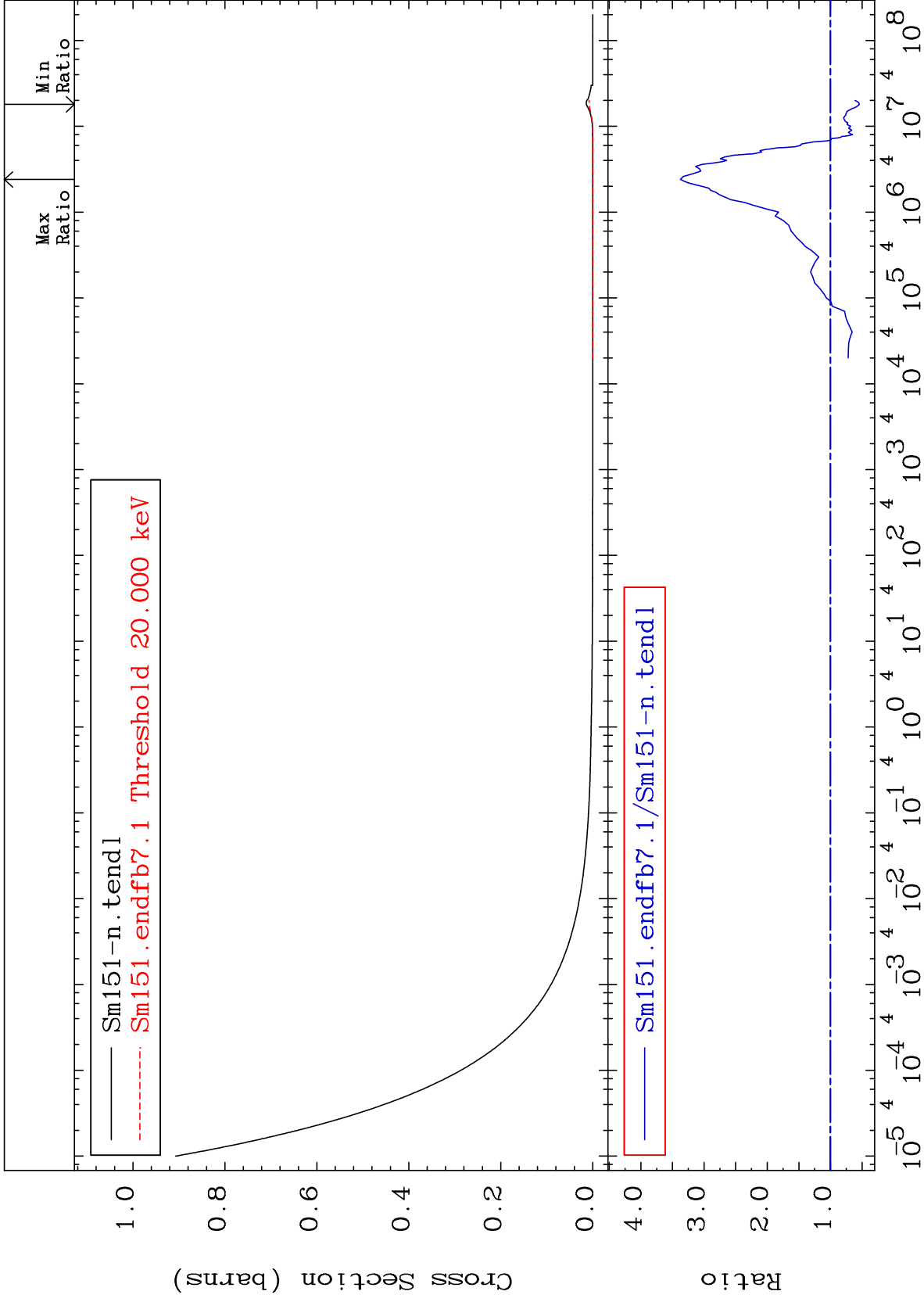
-63.51 To 508.7 %



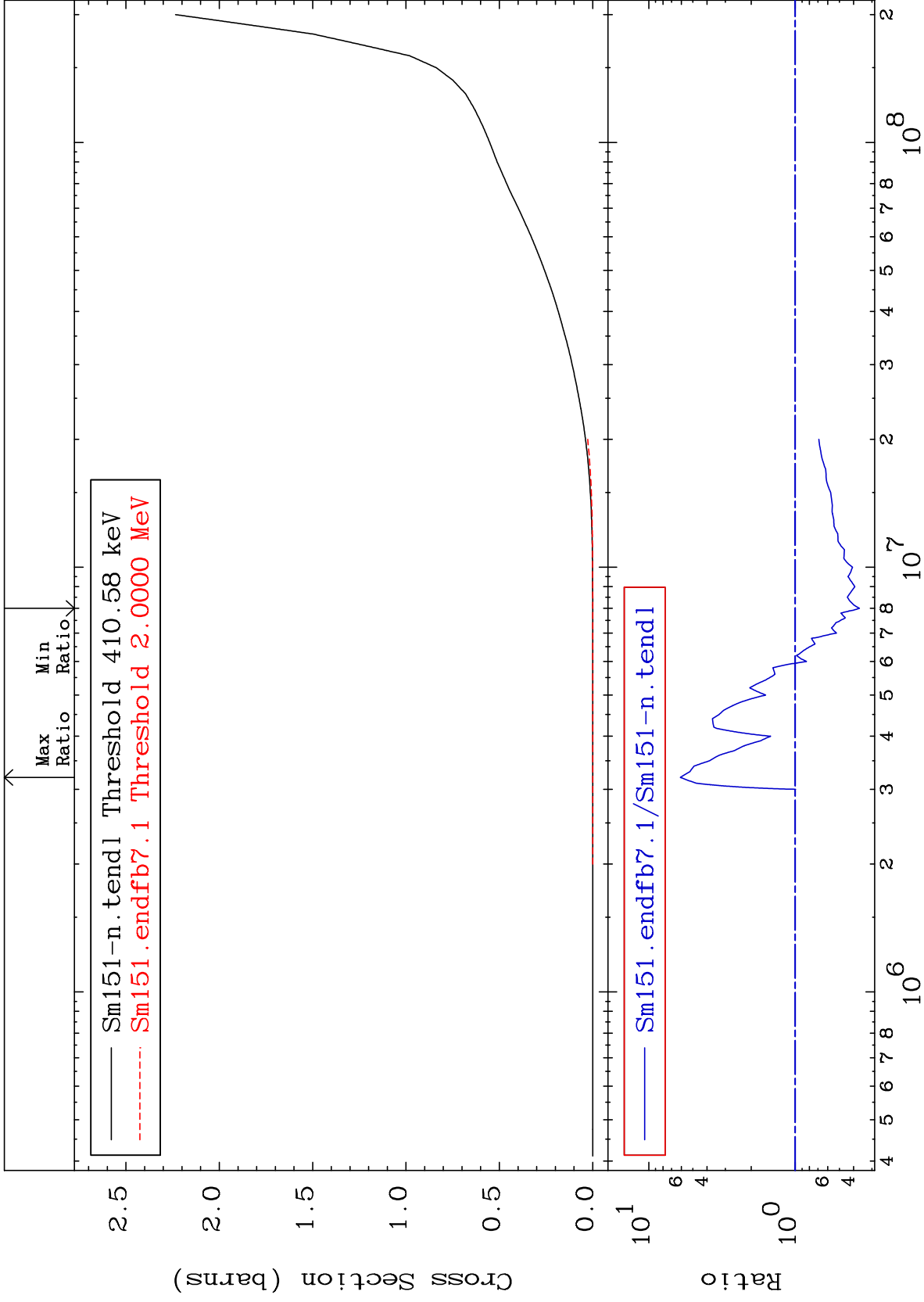
MAT 6246

(n,  $\alpha$ )  
Cross Section

62-Sm-151  
-45.79 To 237.5 %



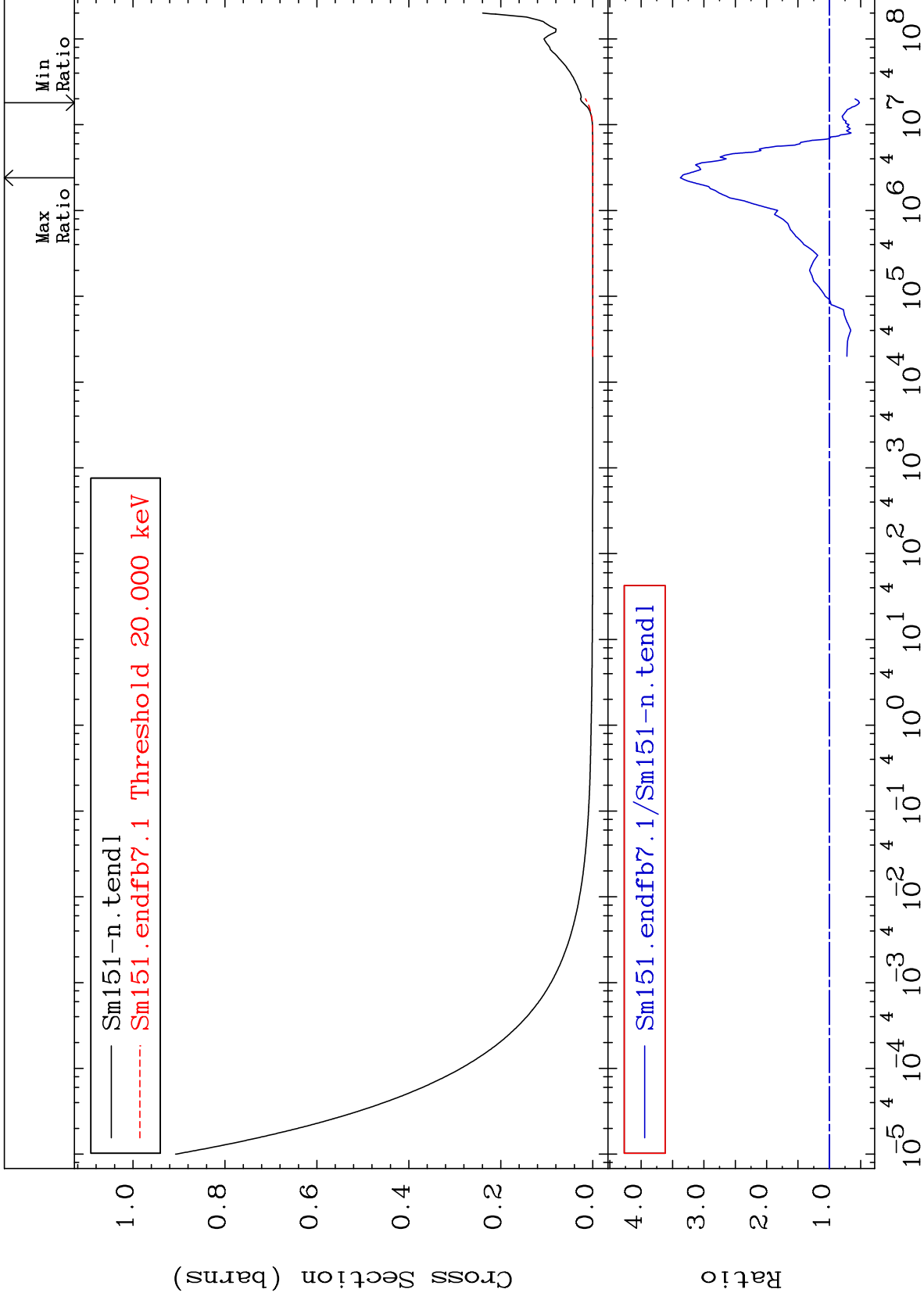


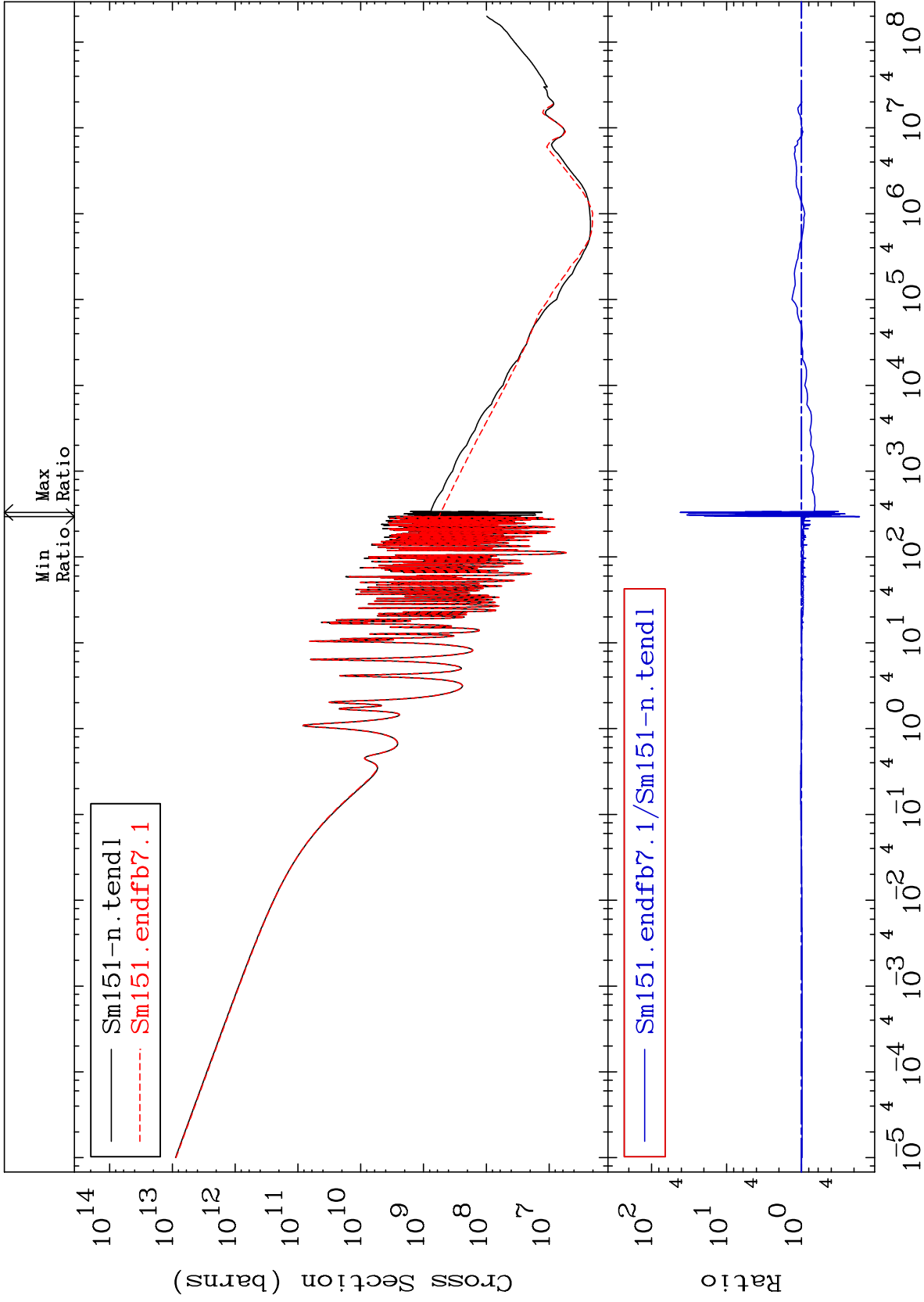


MAT 6246

He-4 Production  
Cross Section

62-Sm-151  
-47.90 To 237.5 %

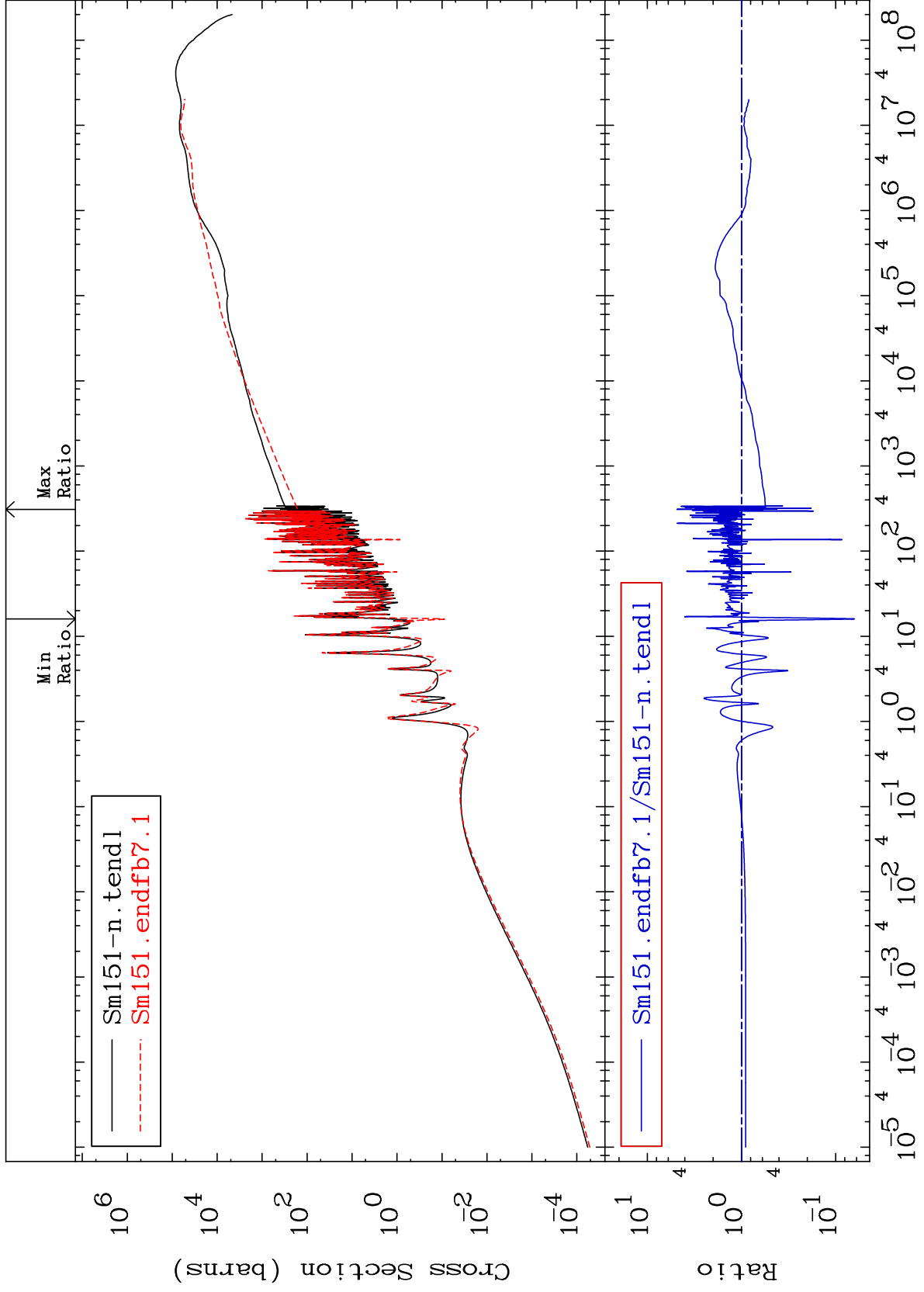


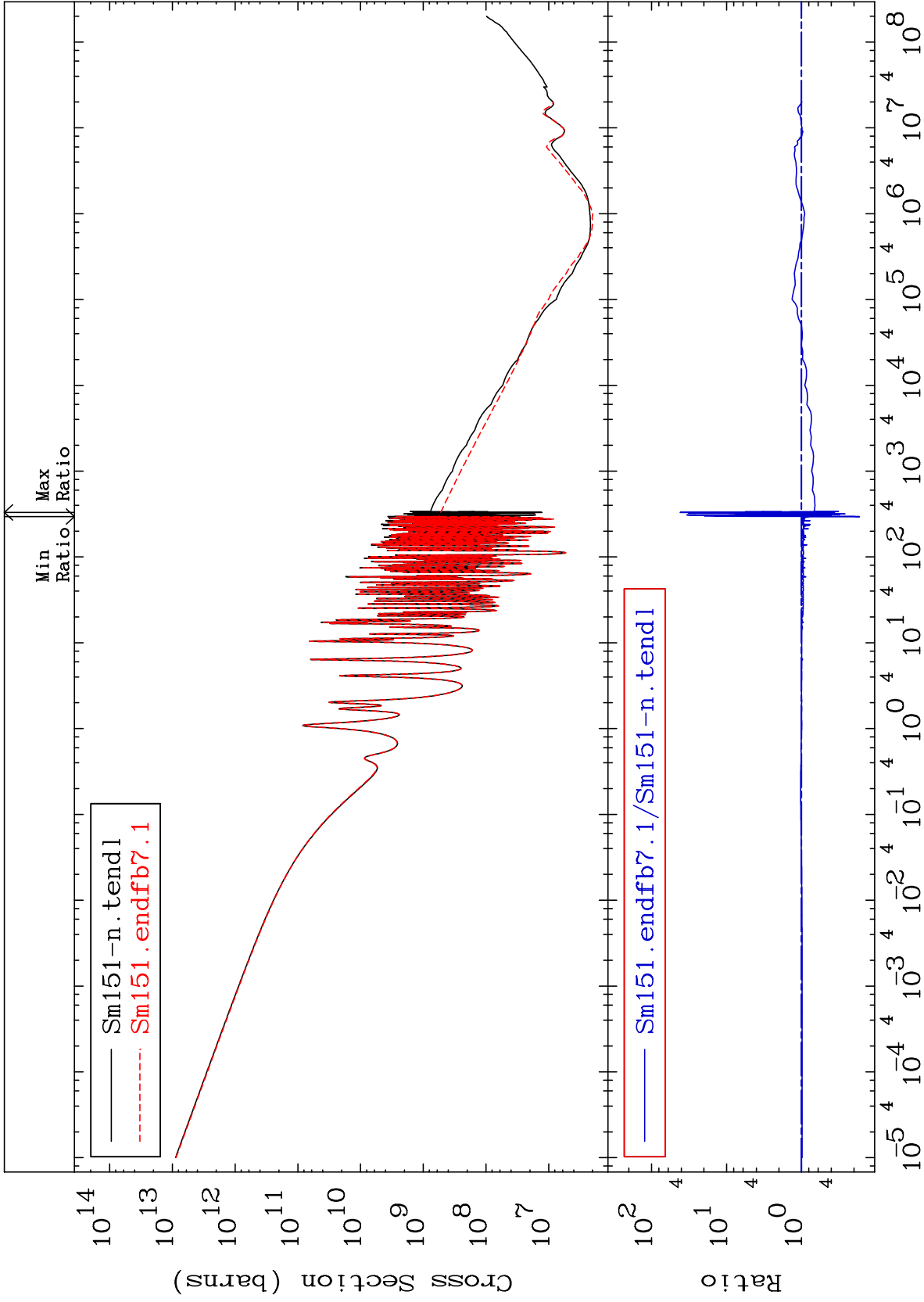


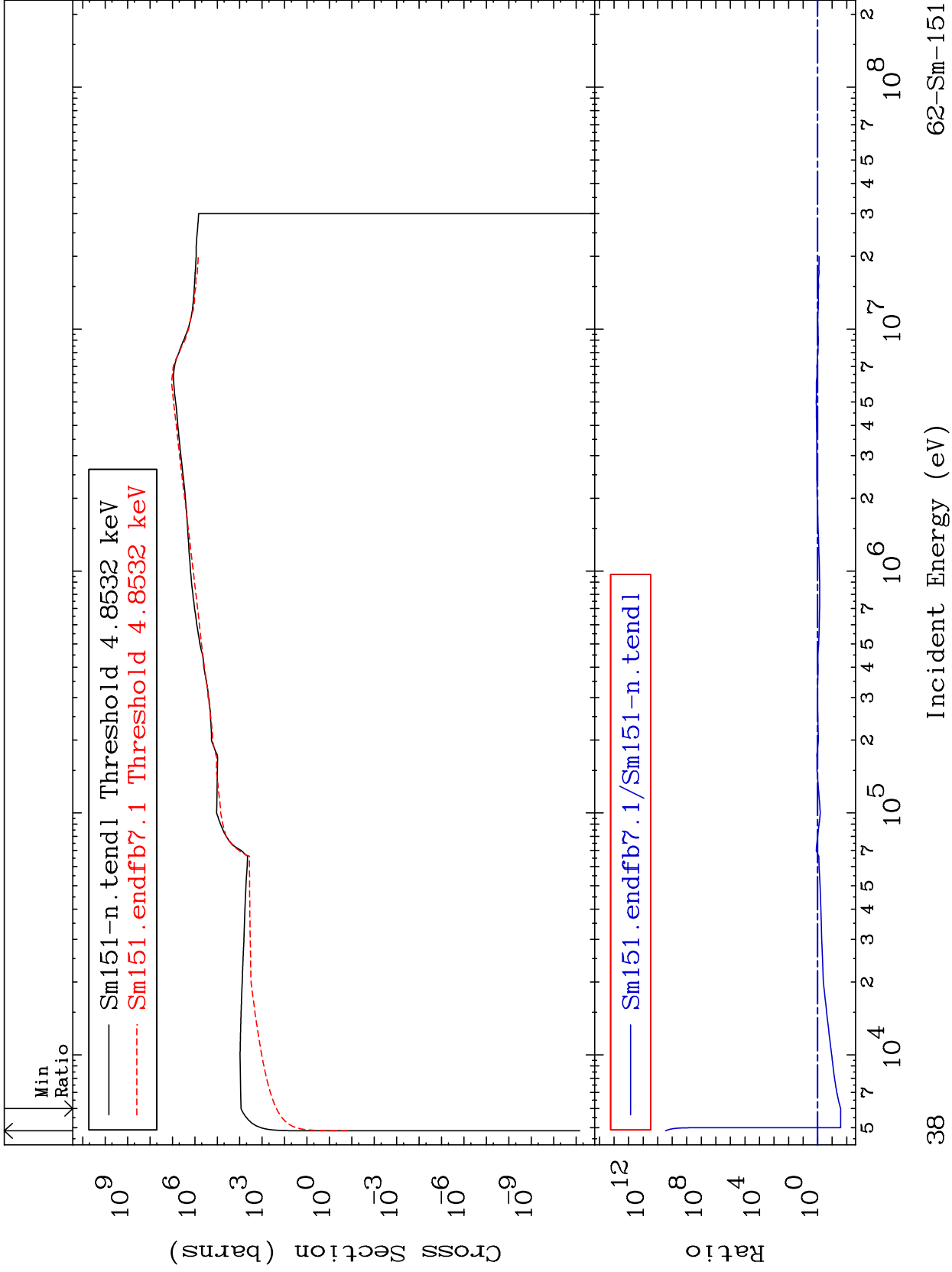
MAT 6246

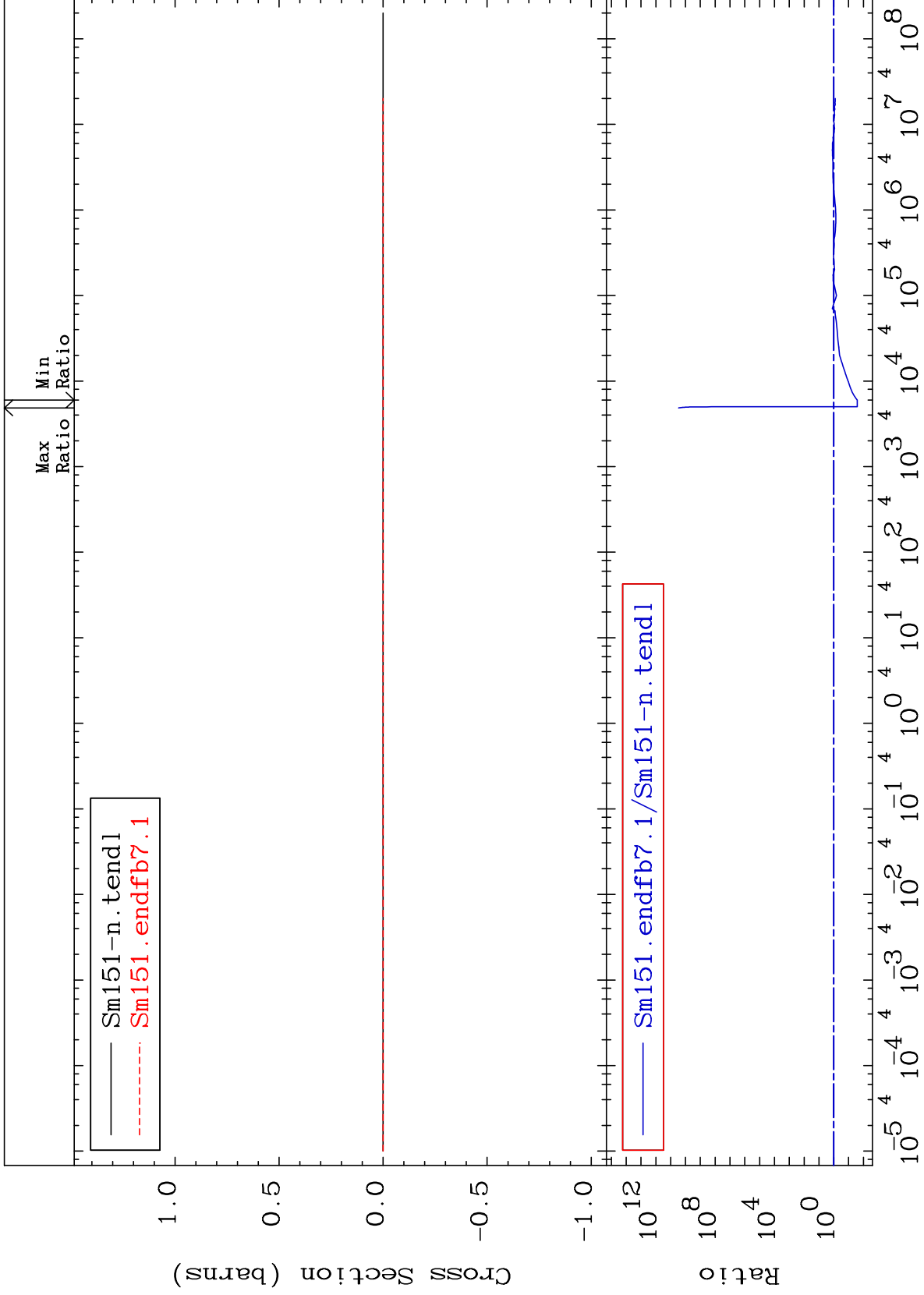
Kerma elastic  
Cross Section

62-Sm-151  
-93.69 To 386.5 %





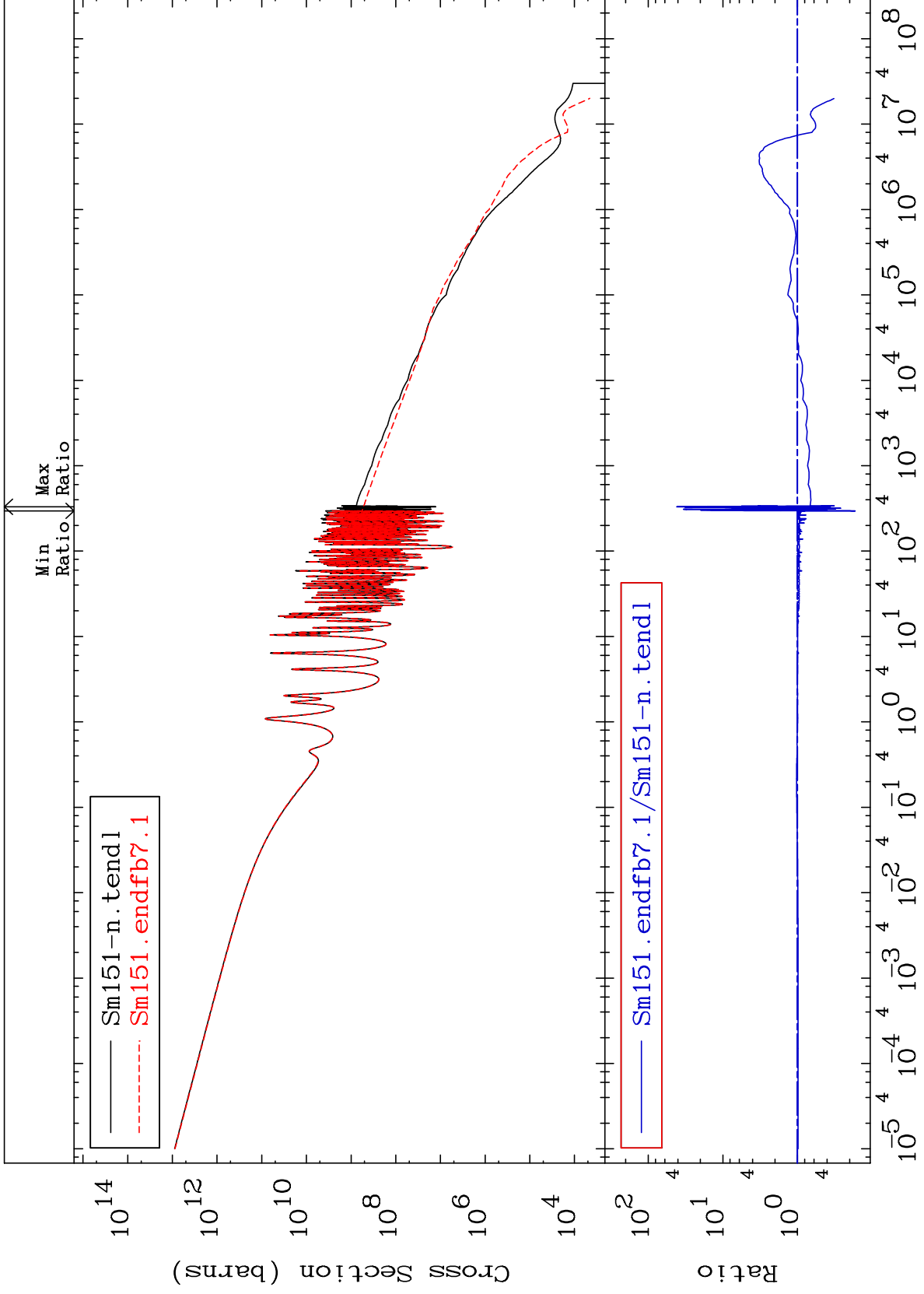




MAT 6246

Kerma capture (mt102)  
Cross Section

62-Sm-151  
-83.09 To 4023. %



40

Incident Energy (eV)

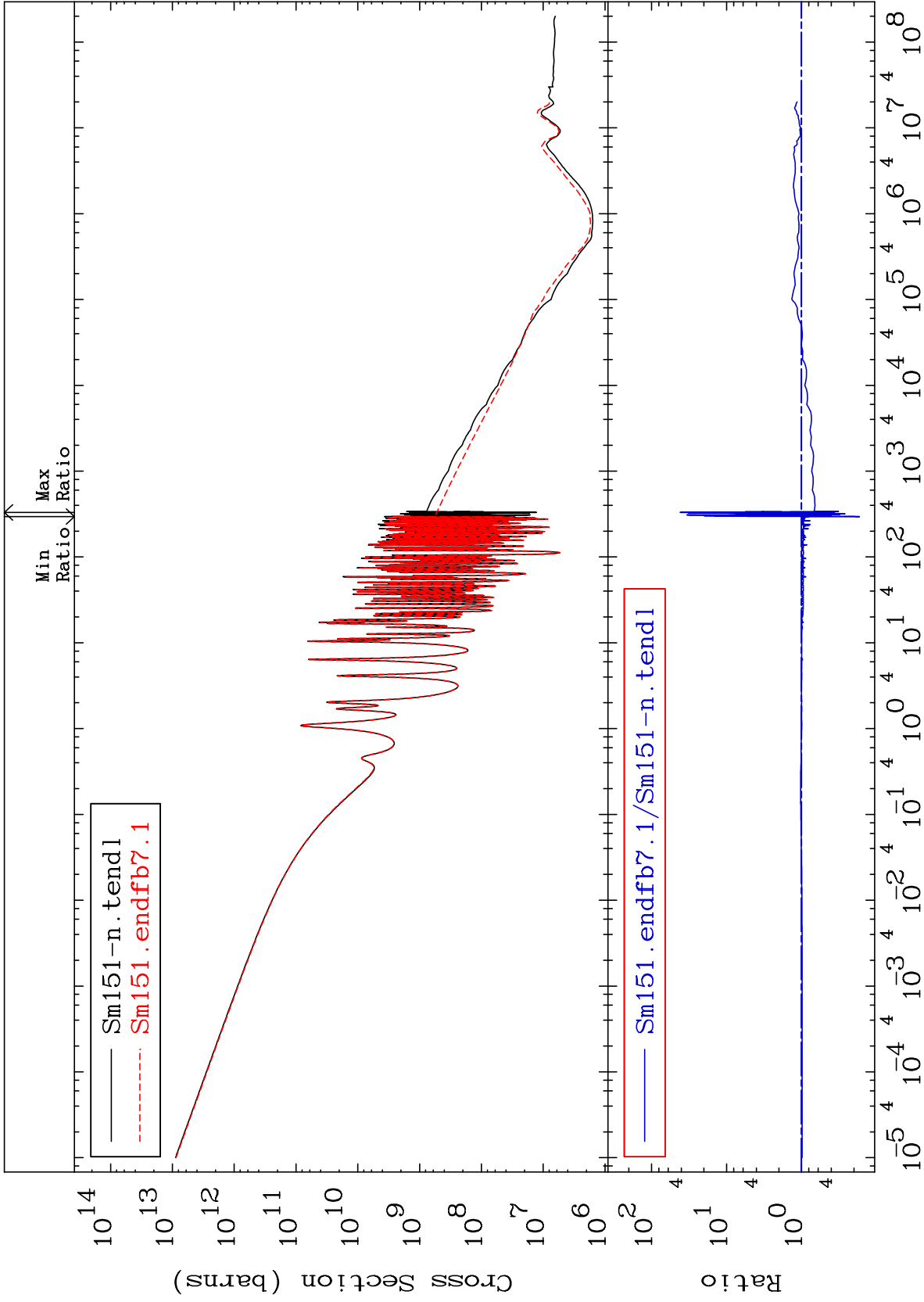
62-Sm-151



MAT 6246

Total photon (eV-barns)  
Cross Section

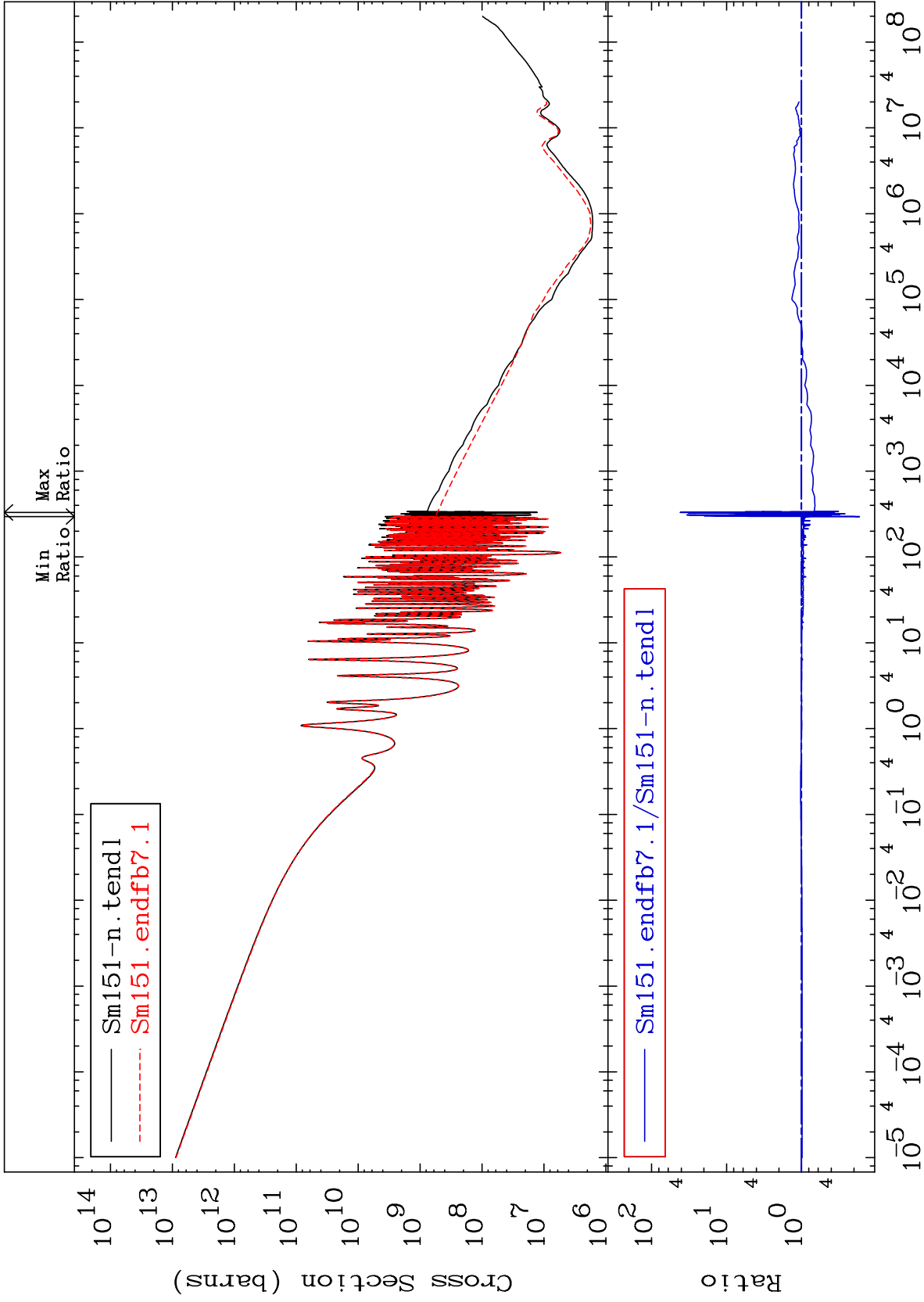
62-Sm-151  
-83.09 To 4022. %



41

Incident Energy (eV)

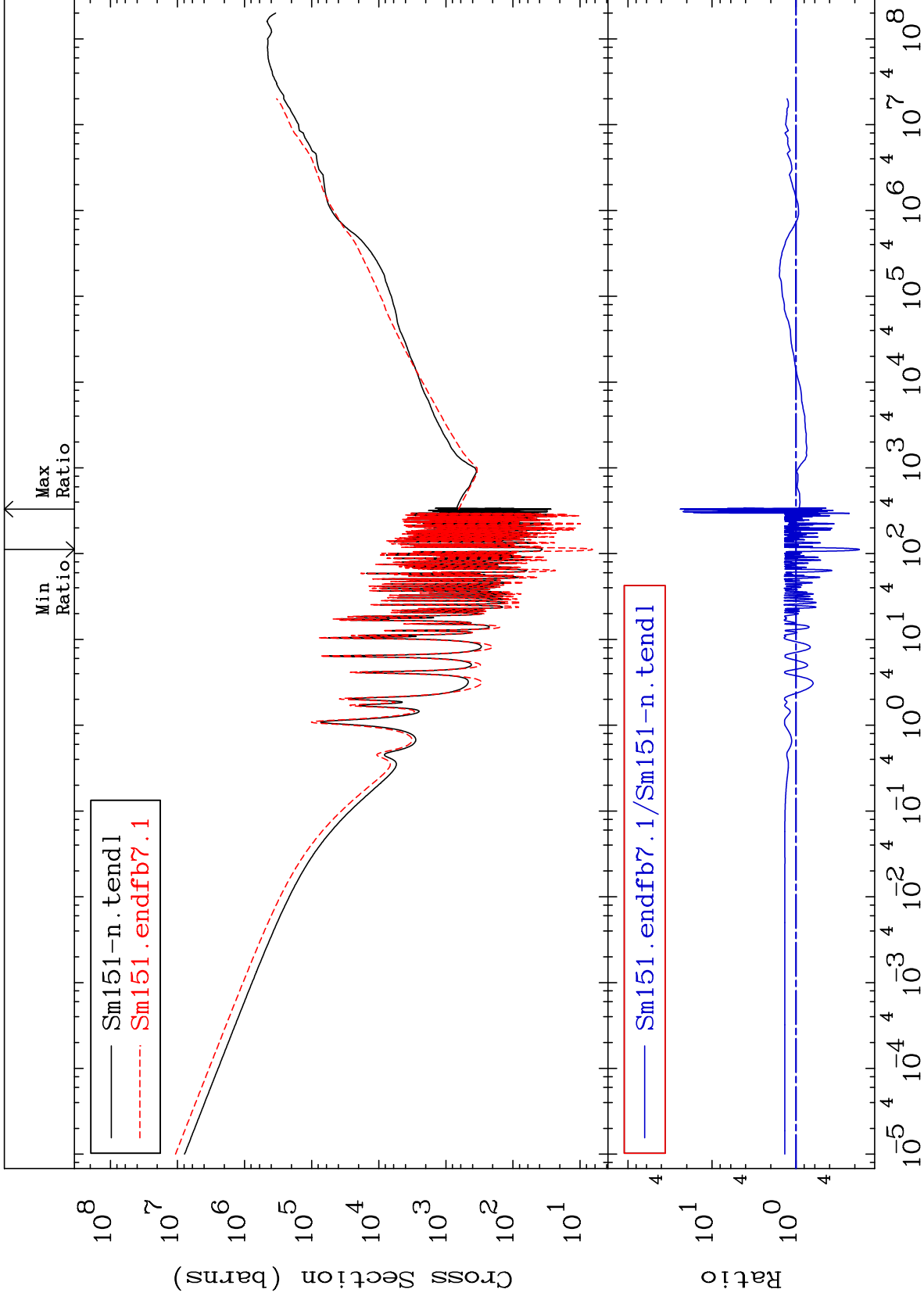
62-Sm-151



MAT 6246

Dpa total (eV-barns)  
Cross Section

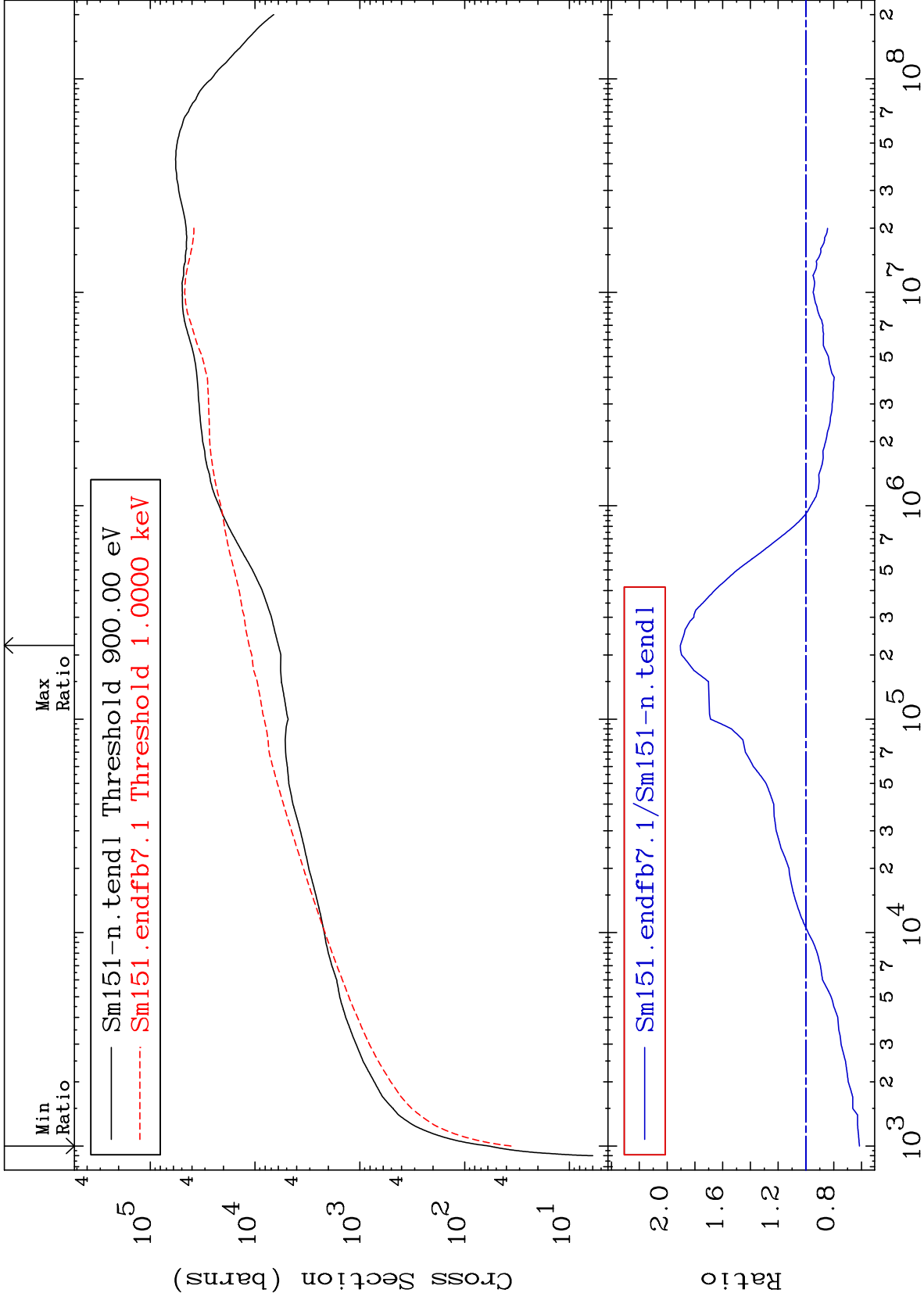
62-Sm-151  
-82.34 To 2279. %

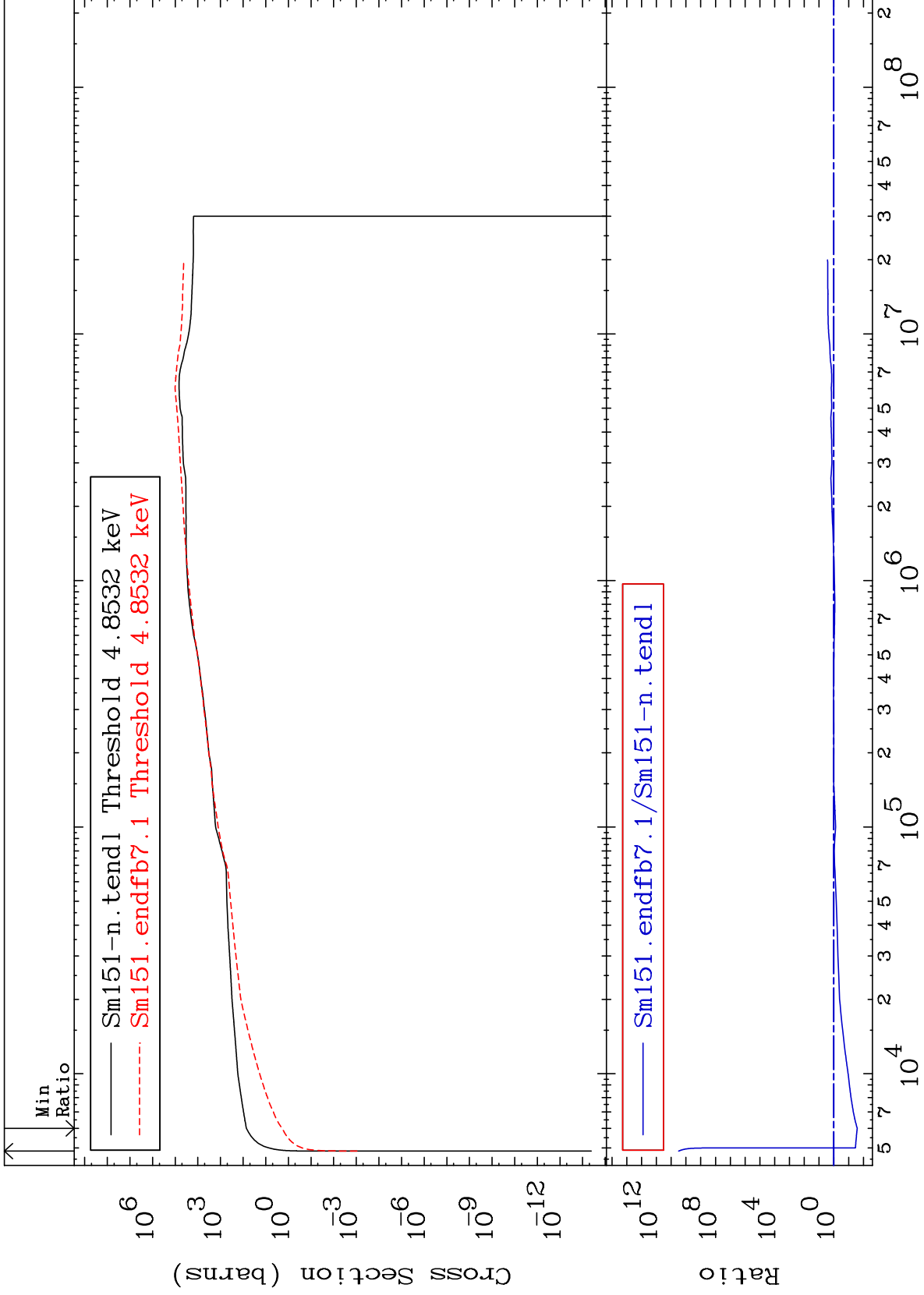


MAT 6246

Dpa elastic (mt2)  
Cross Section

62-Sm-151  
-38.53 To 90.44 %





MAT 6246

Dpa disappearance (mt102 -120)  
Cross Section

62-Sm-151  
-82.34 To 2279. %

