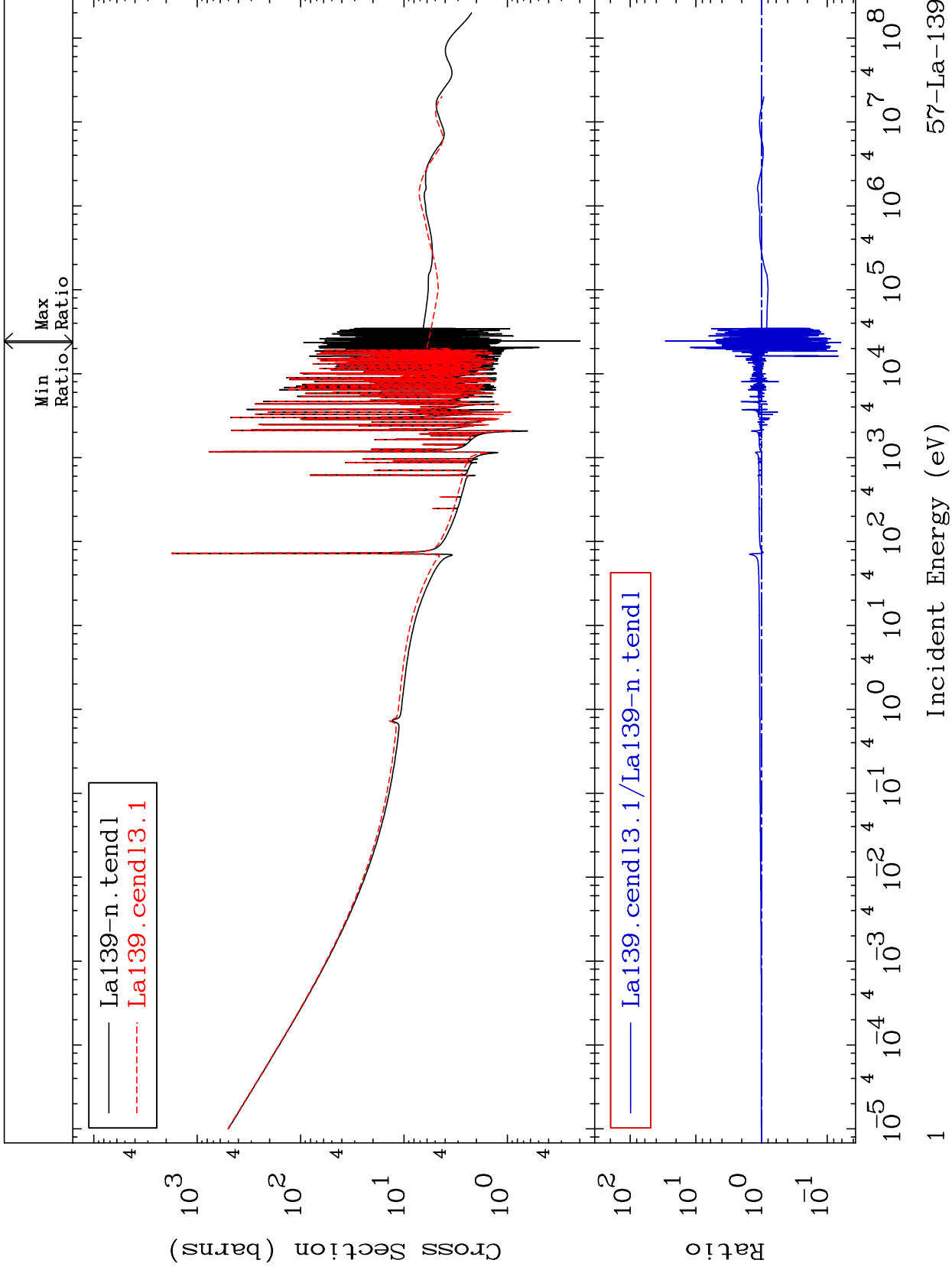


MAT 5728

Total  
Cross Section

57-La-139  
-93.75 To 2804. %



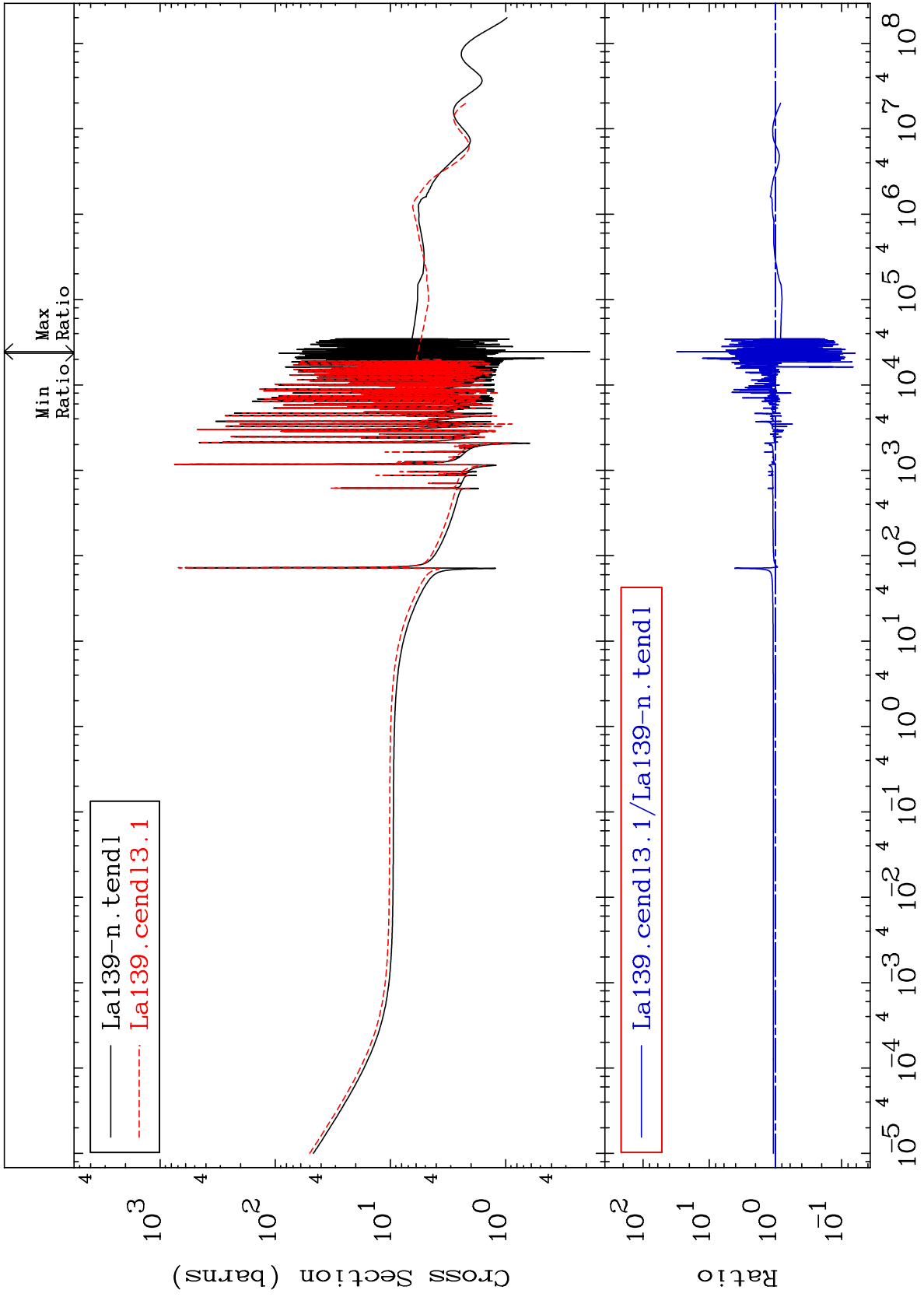
Incident Energy (eV)

57-La-139

MAT 5728

Elastic  
Cross Section

57-La-139  
-93.74 To 2988. %



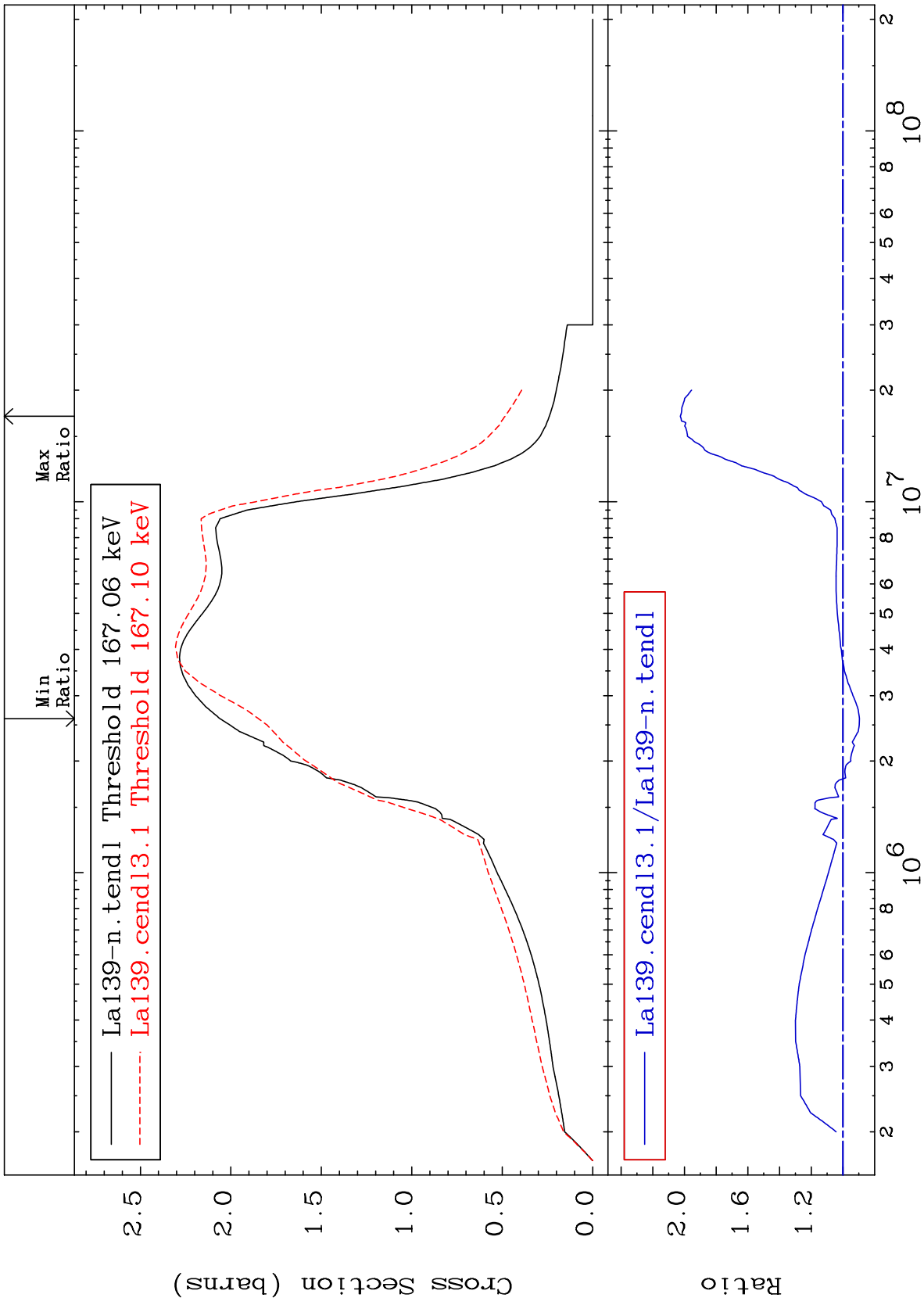
Incident Energy (eV)

57-La-139

MAT 5728

Inelastic  
Cross Section

57-La-139  
-10.37 To 102.6 %



3

Incident Energy (eV)

57-La-139

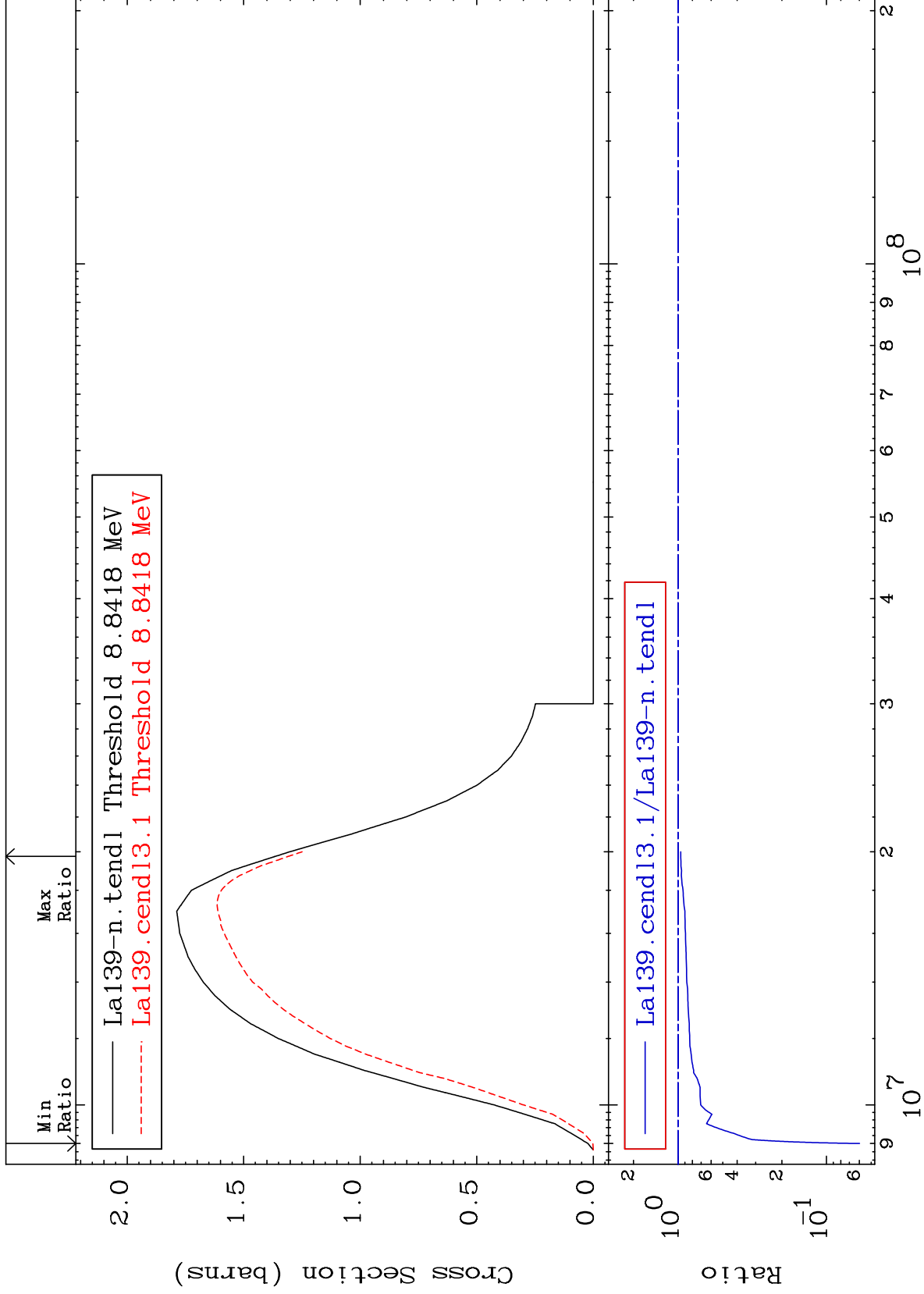
MAT 5728

(n,2n)

57-La-139

Cross Section

-94.02 To -4.055%



4

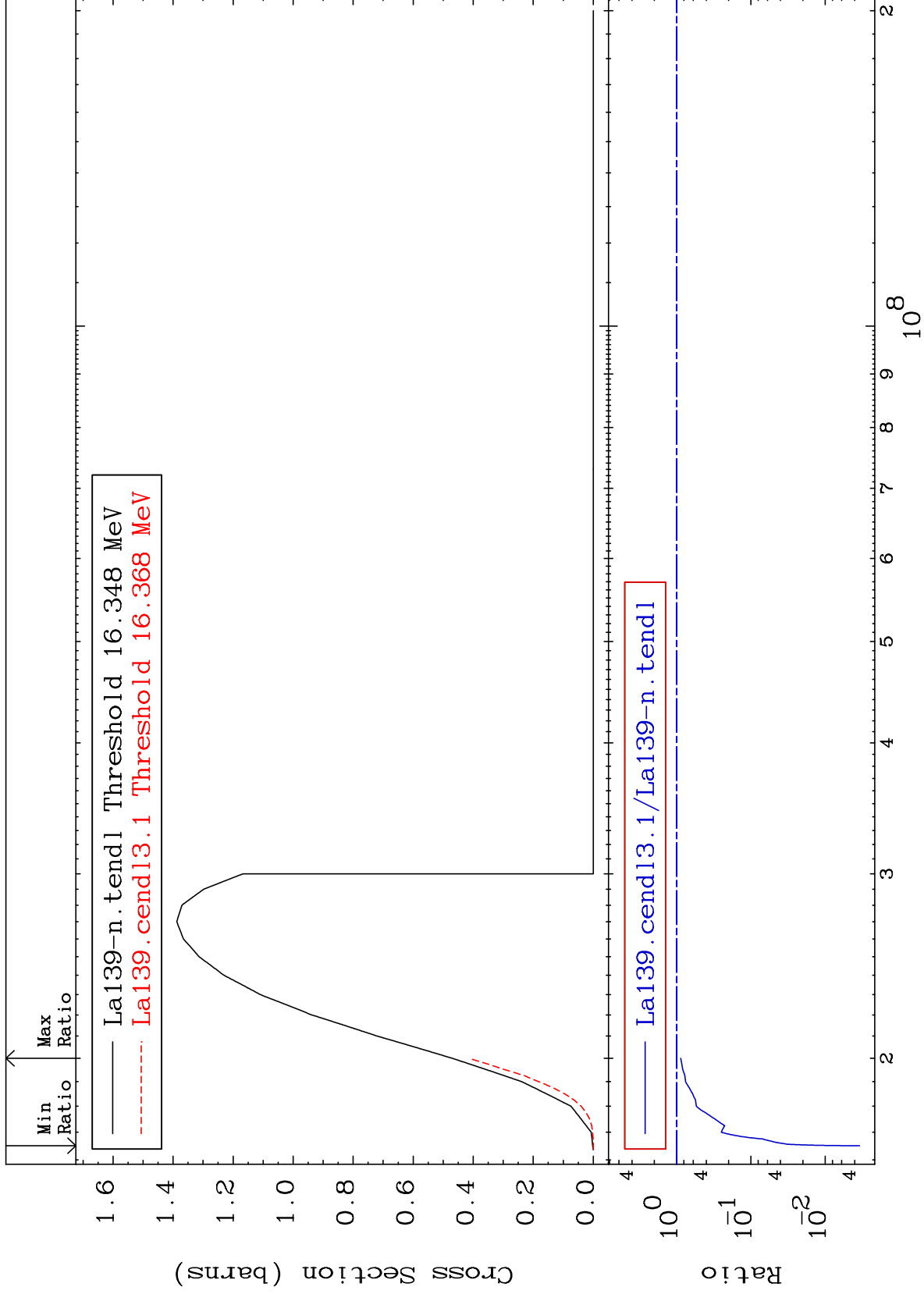
Incident Energy (eV)

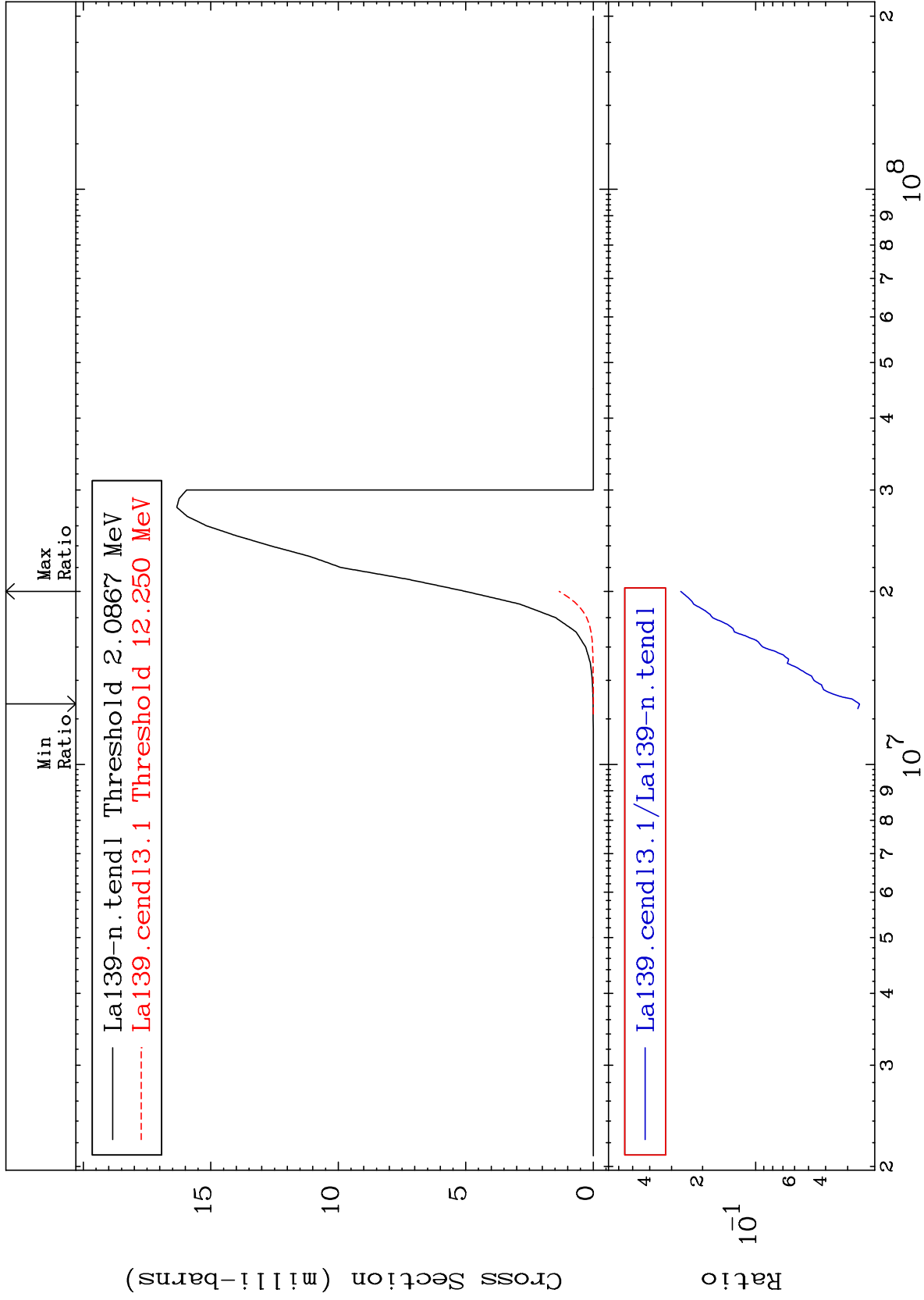
57-La-139

MAT 5728

(n,3n)  
Cross Section

57-La-139  
-99.65 To -11.83%

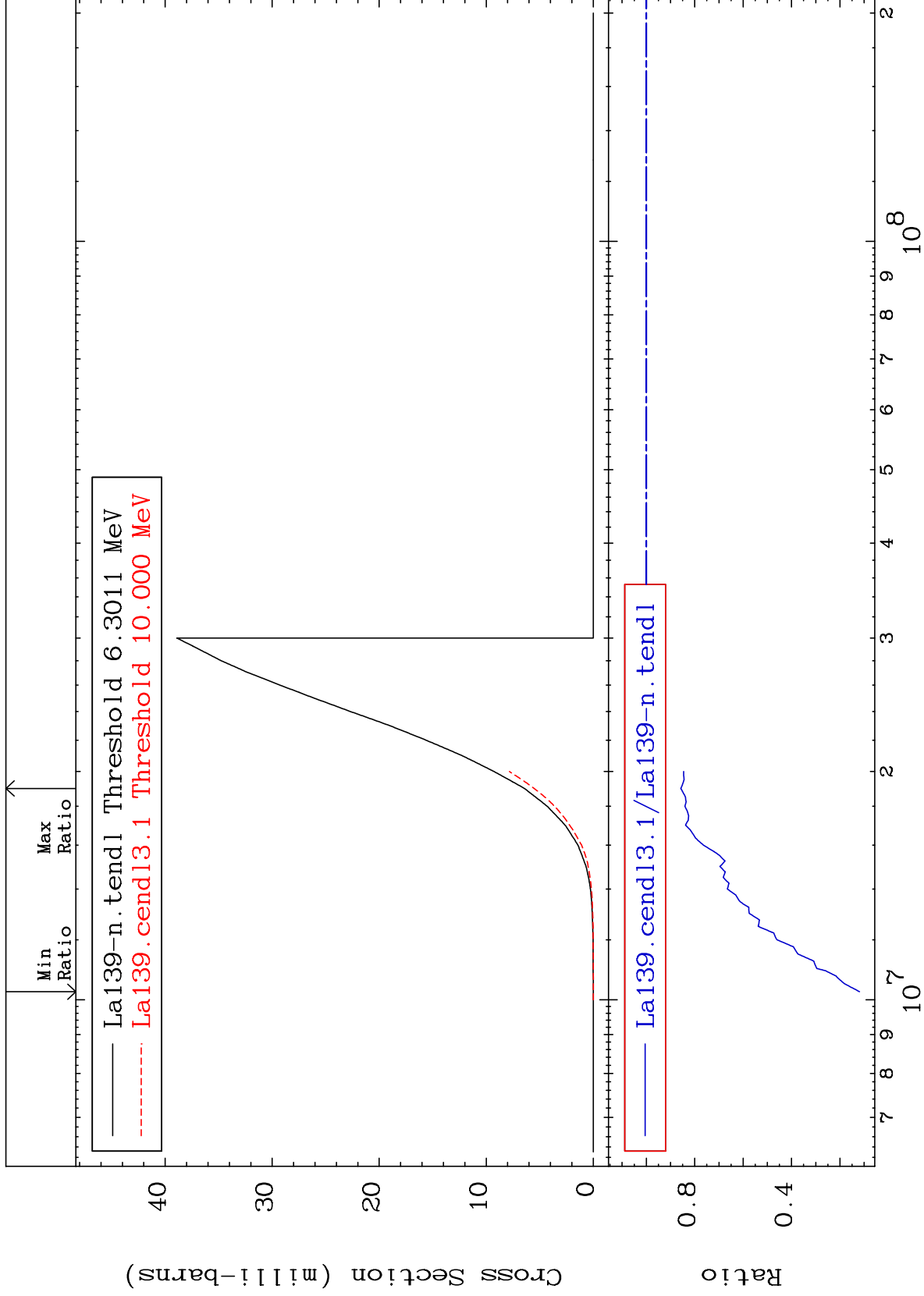




MAT 5728

(n,n') p  
Cross Section

57-La-139  
-88.10 To -14.23%



7

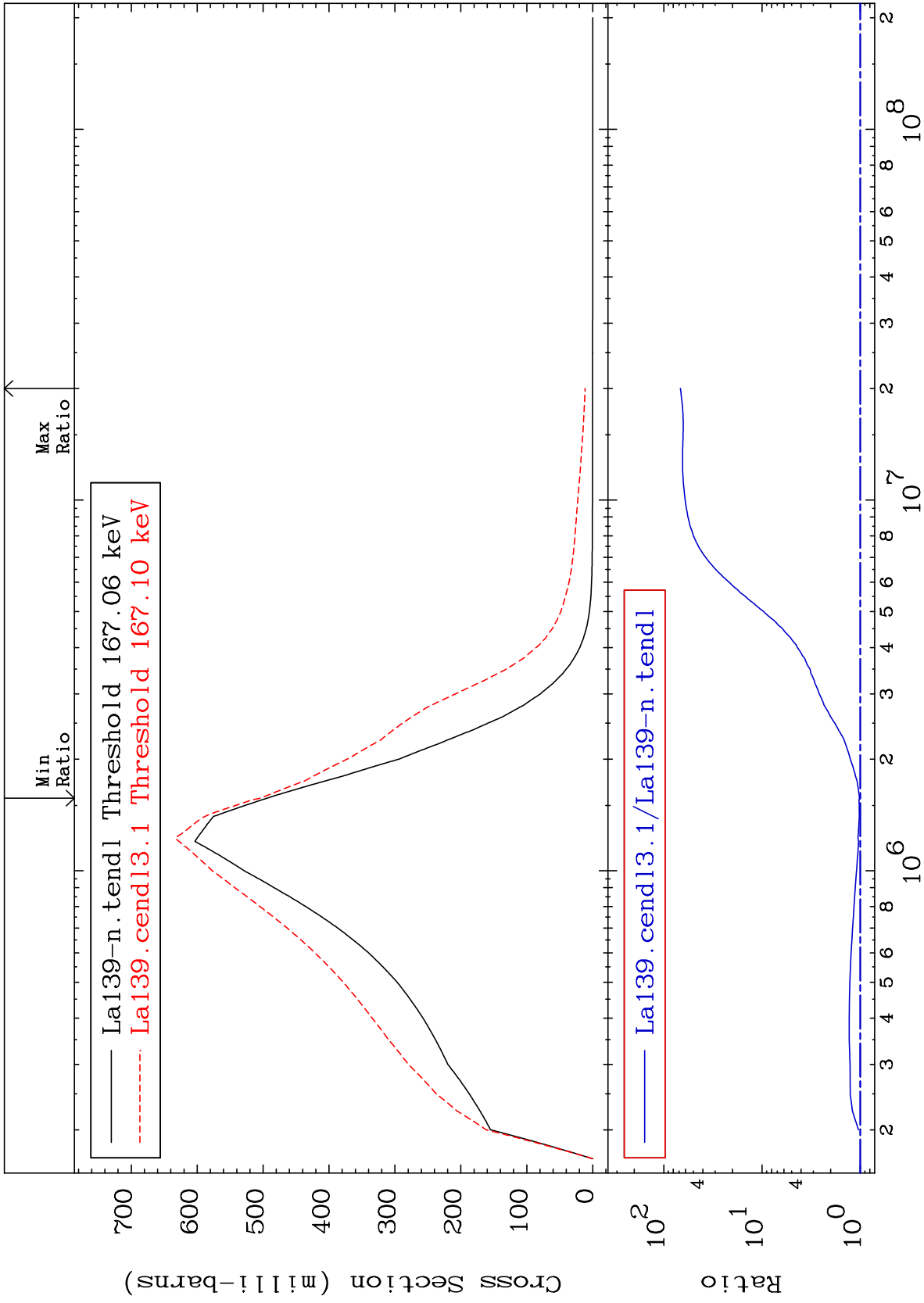
Incident Energy (eV)

57-La-139

MAT 5728

165.9 keV (n,n') Level  
Cross Section

57-La-139  
2.055 To 6684. %

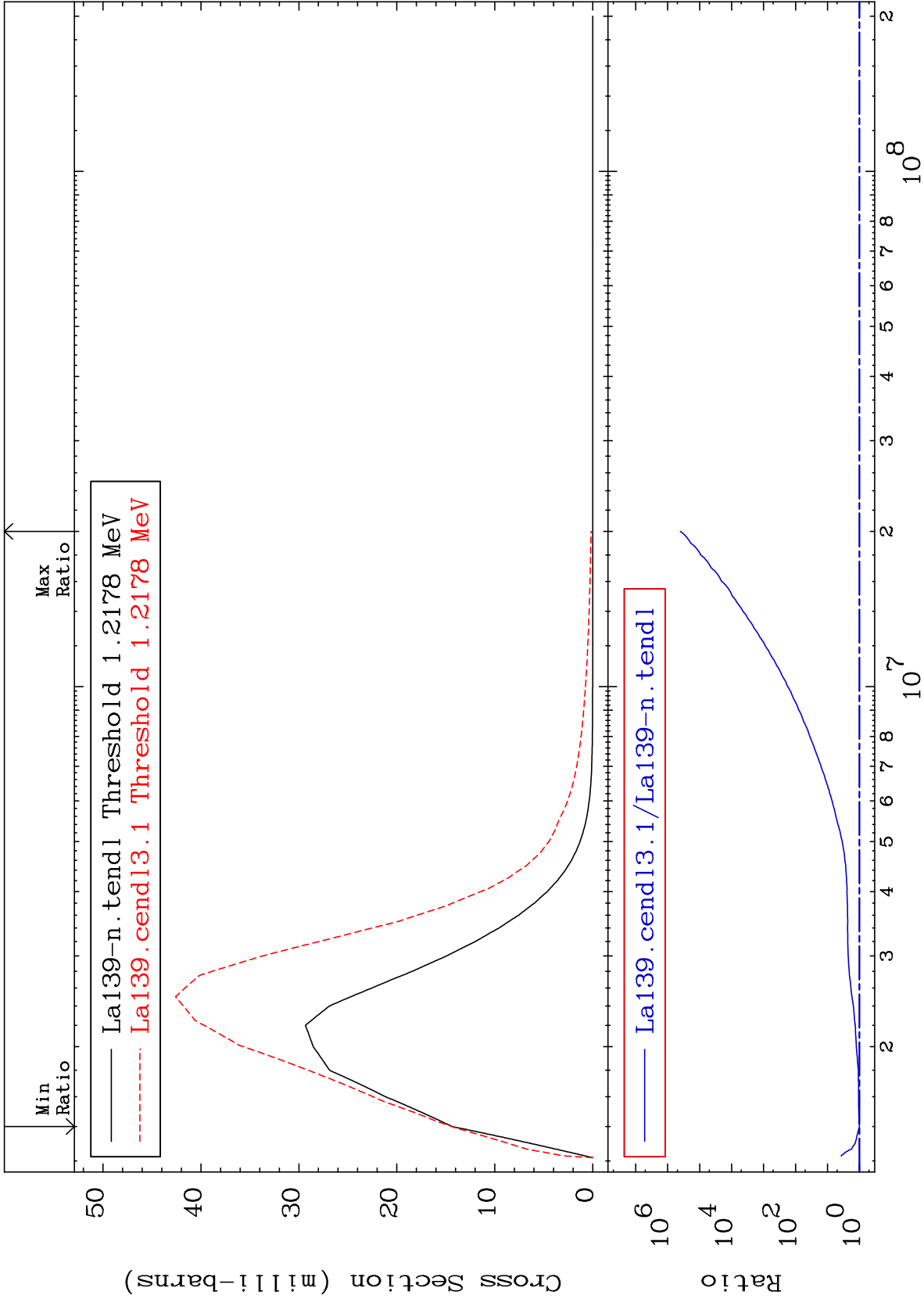




MAT 5728

1.209 MeV (n,n') Level  
Cross Section

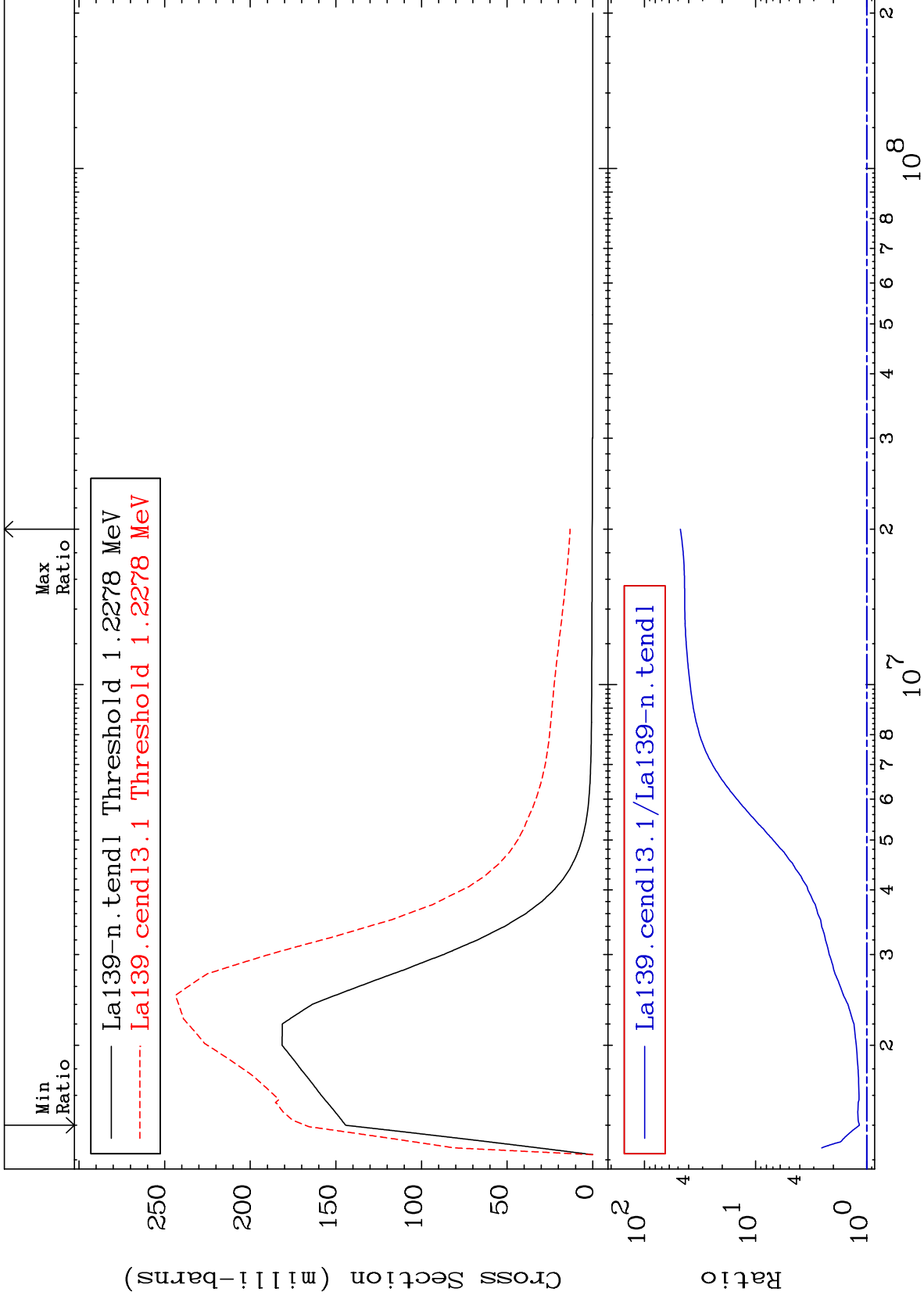
57-La-139  
To 9999. %  
0.255



MAT 5728

1.219 MeV (n,n') Level  
Cross Section

57-La-139  
16.34 To 4659. %



10

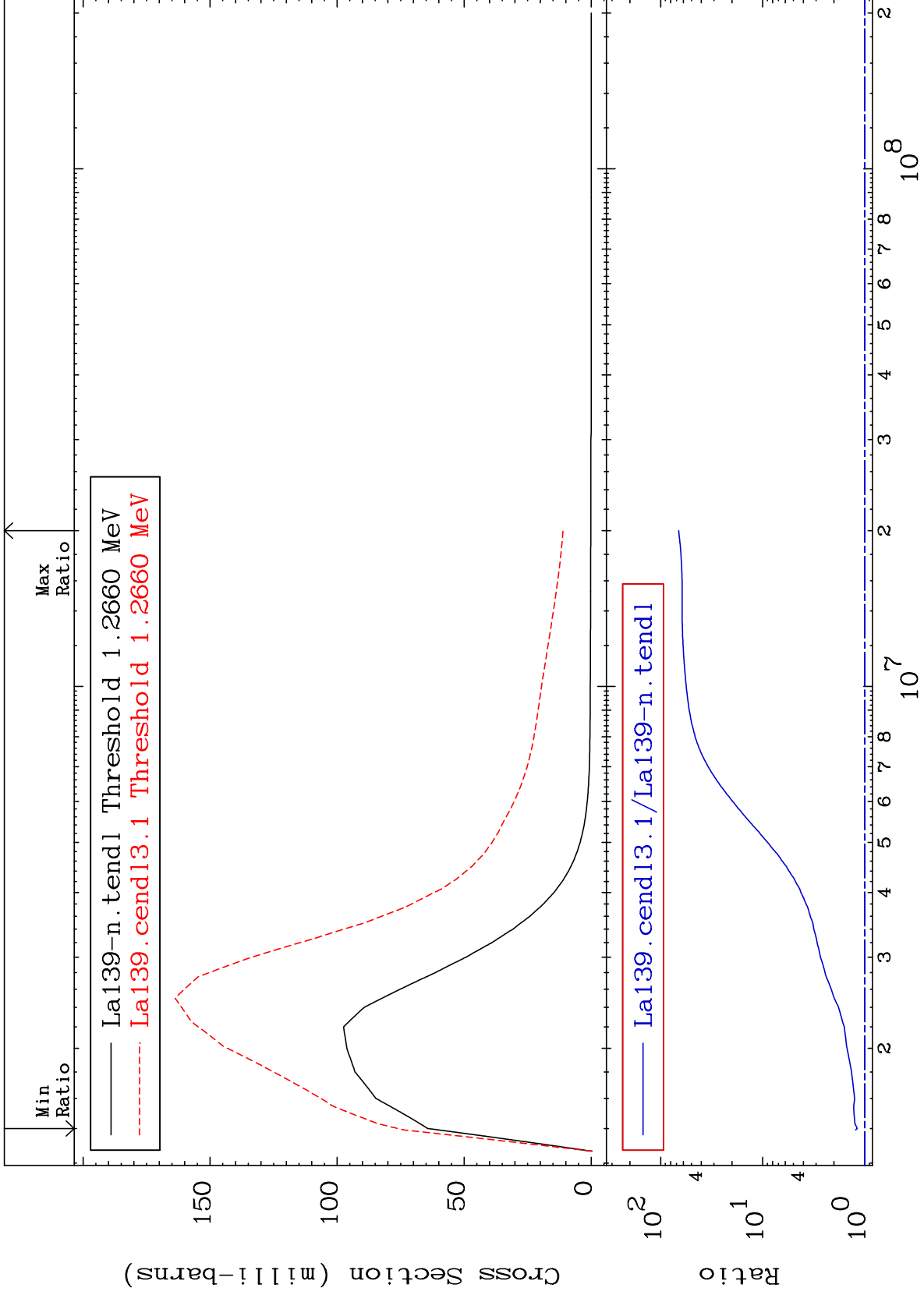
Incident Energy (eV)

57-La-139

MAT 5728

1.257 MeV (n,n') Level  
Cross Section

57-La-139  
18.31 To 6571. %



11

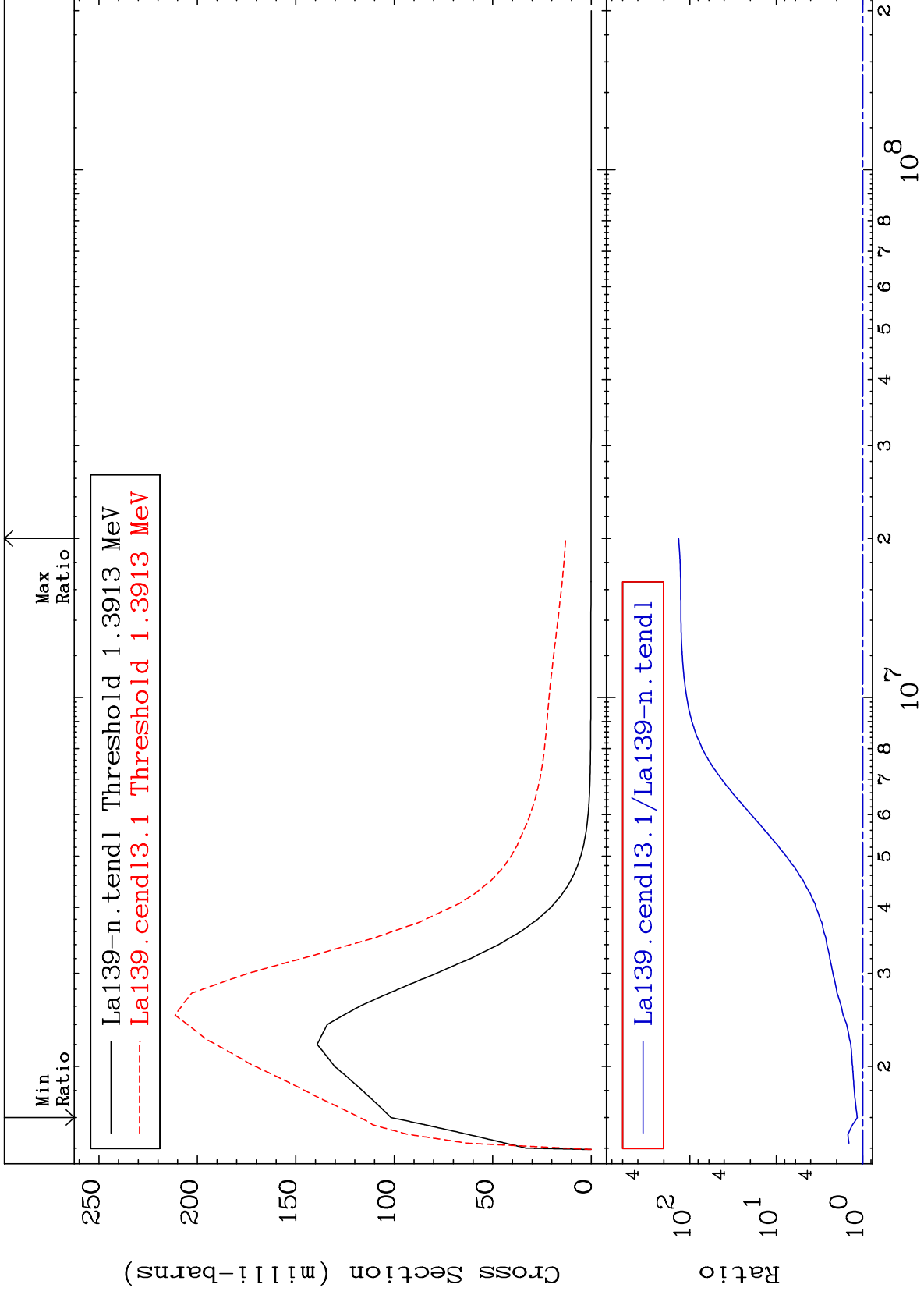
Incident Energy (eV)

57-La-139

MAT 5728

1.381 MeV (n,n') Level  
Cross Section

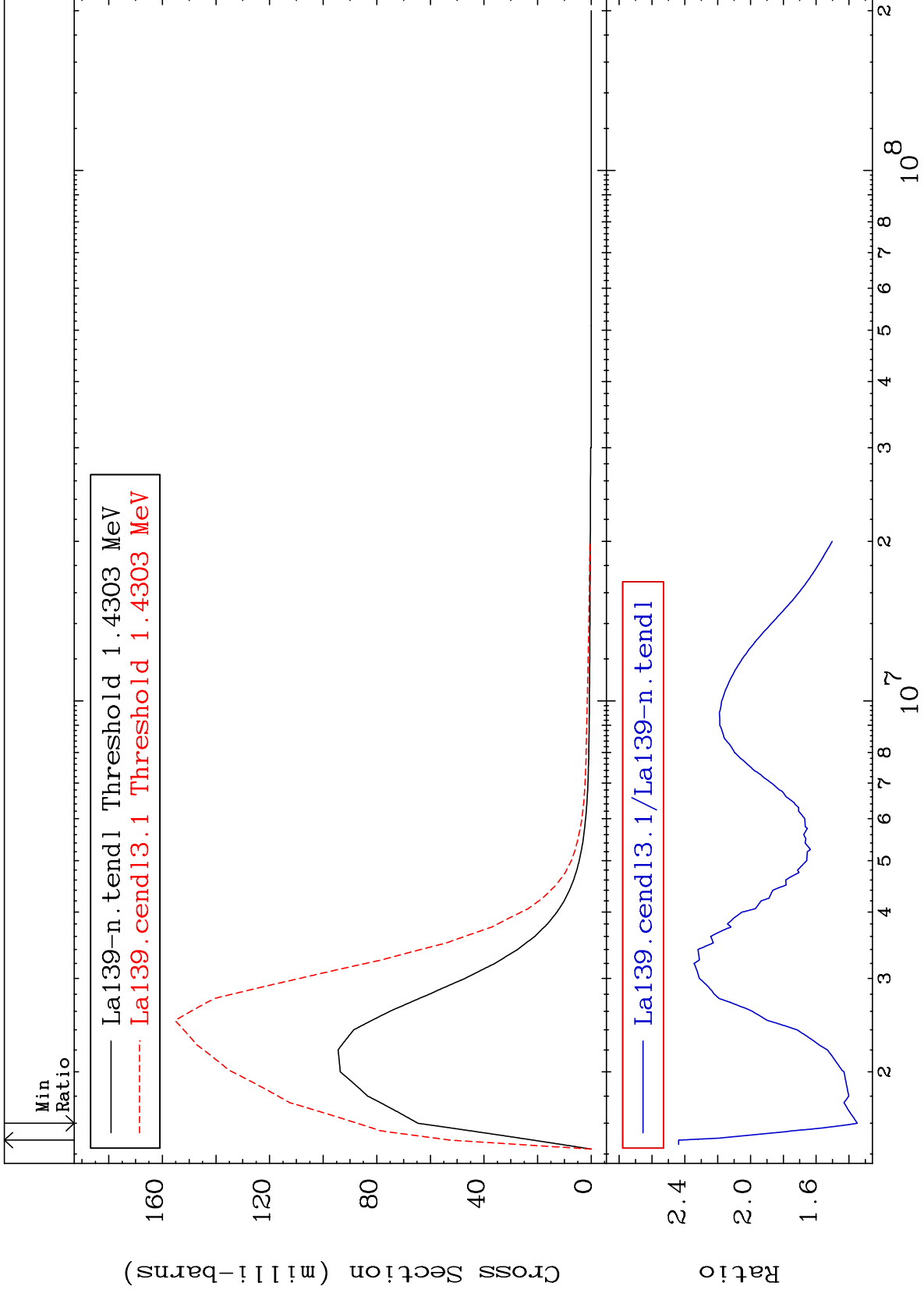
57-La-139  
15.60 To 9999. %



MAT 5728

1.420 MeV (n,n') Level  
Cross Section

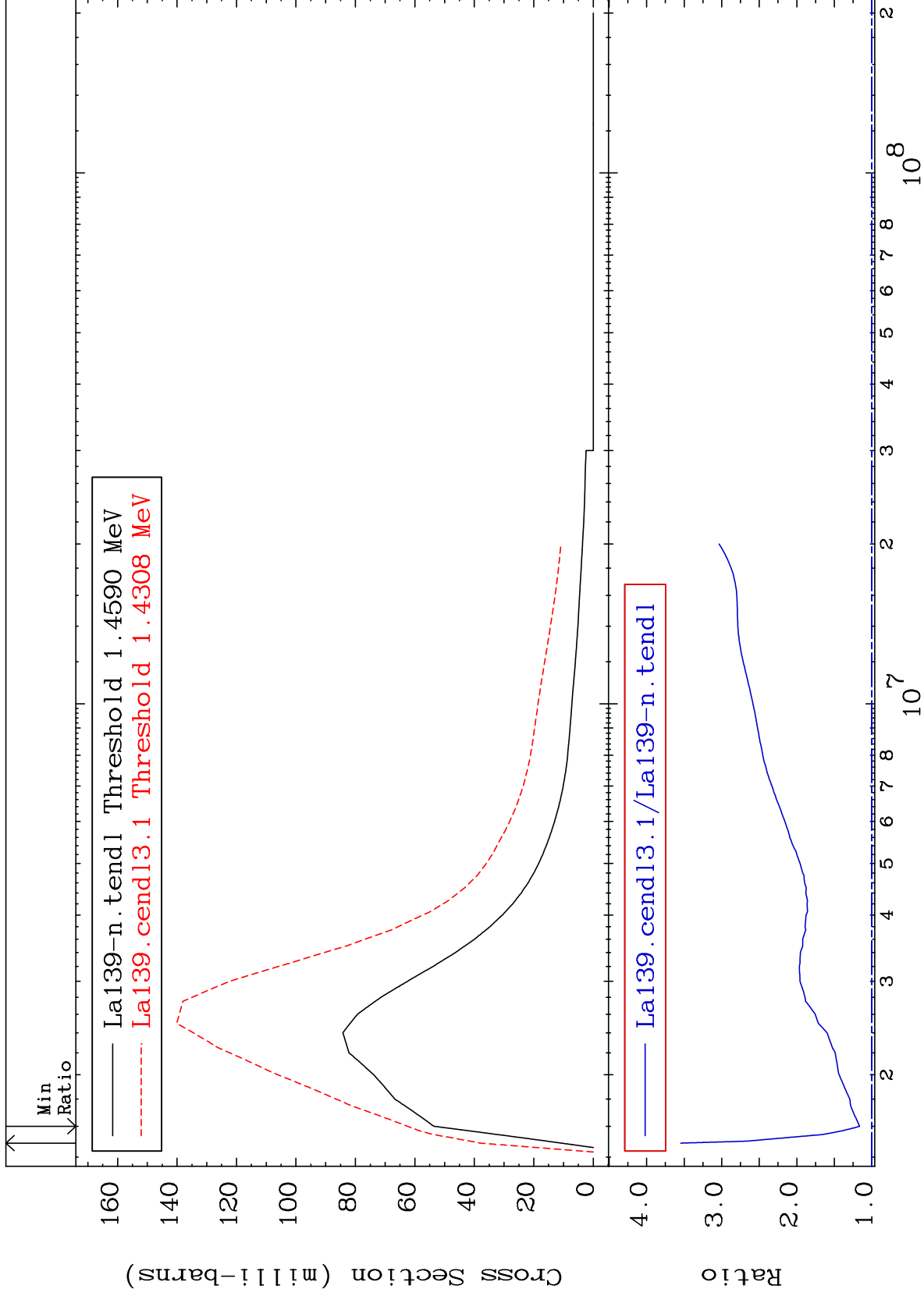
57-La-139  
34.97 To 143.7 %



MAT 5728

1.448 MeV (n,n') Level  
Cross Section

57-La-139  
16.46 To 254.5 %



14

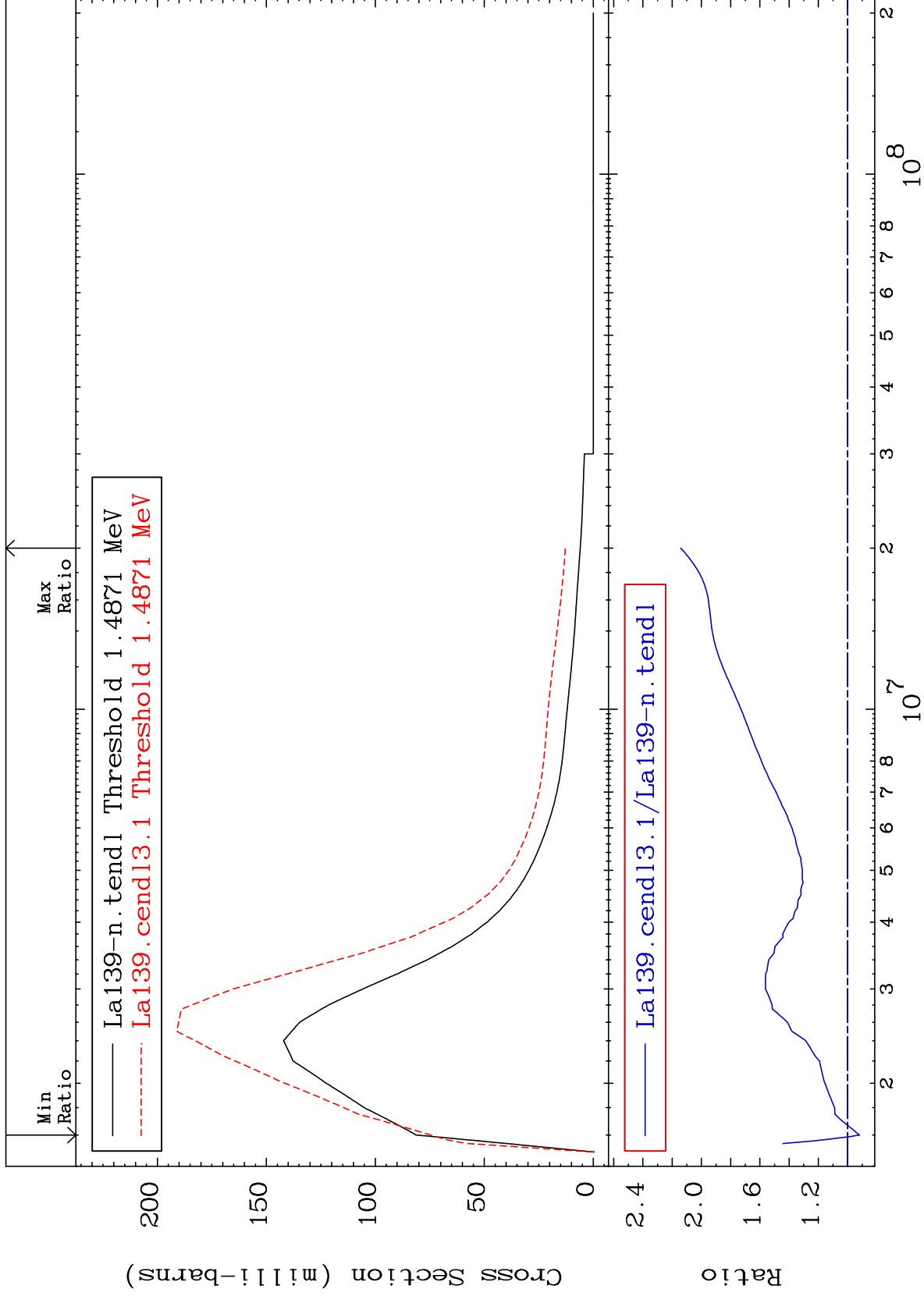
Incident Energy (eV)

57-La-139

MAT 5728

1.476 MeV (n,n') Level  
Cross Section

57-La-139  
-8.119 To 114.1 %



15

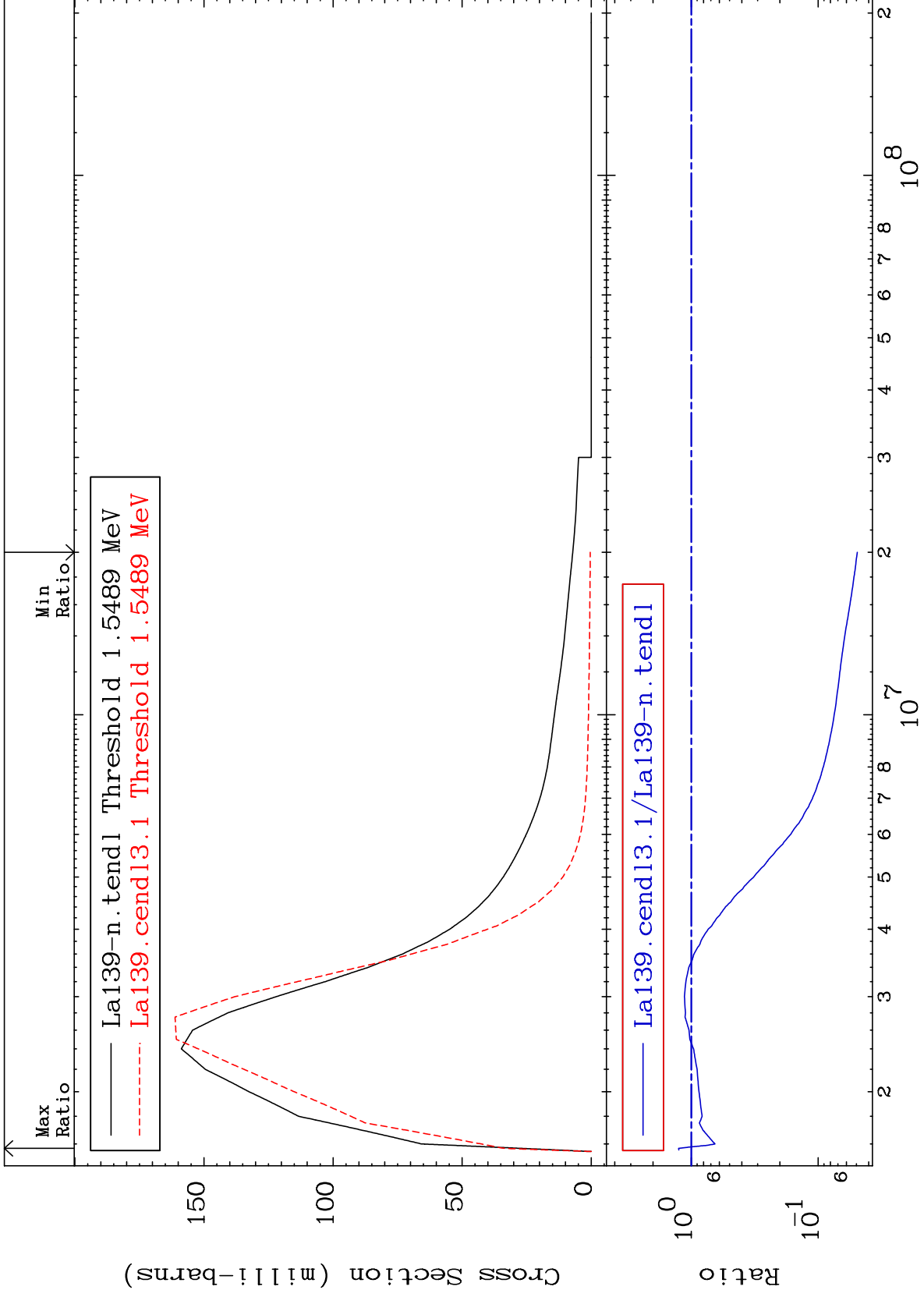
Incident Energy (eV)

57-La-139

MAT 5728

1.538 MeV (n,n') Level  
Cross Section

57-La-139  
-95.08 To 25.69 %





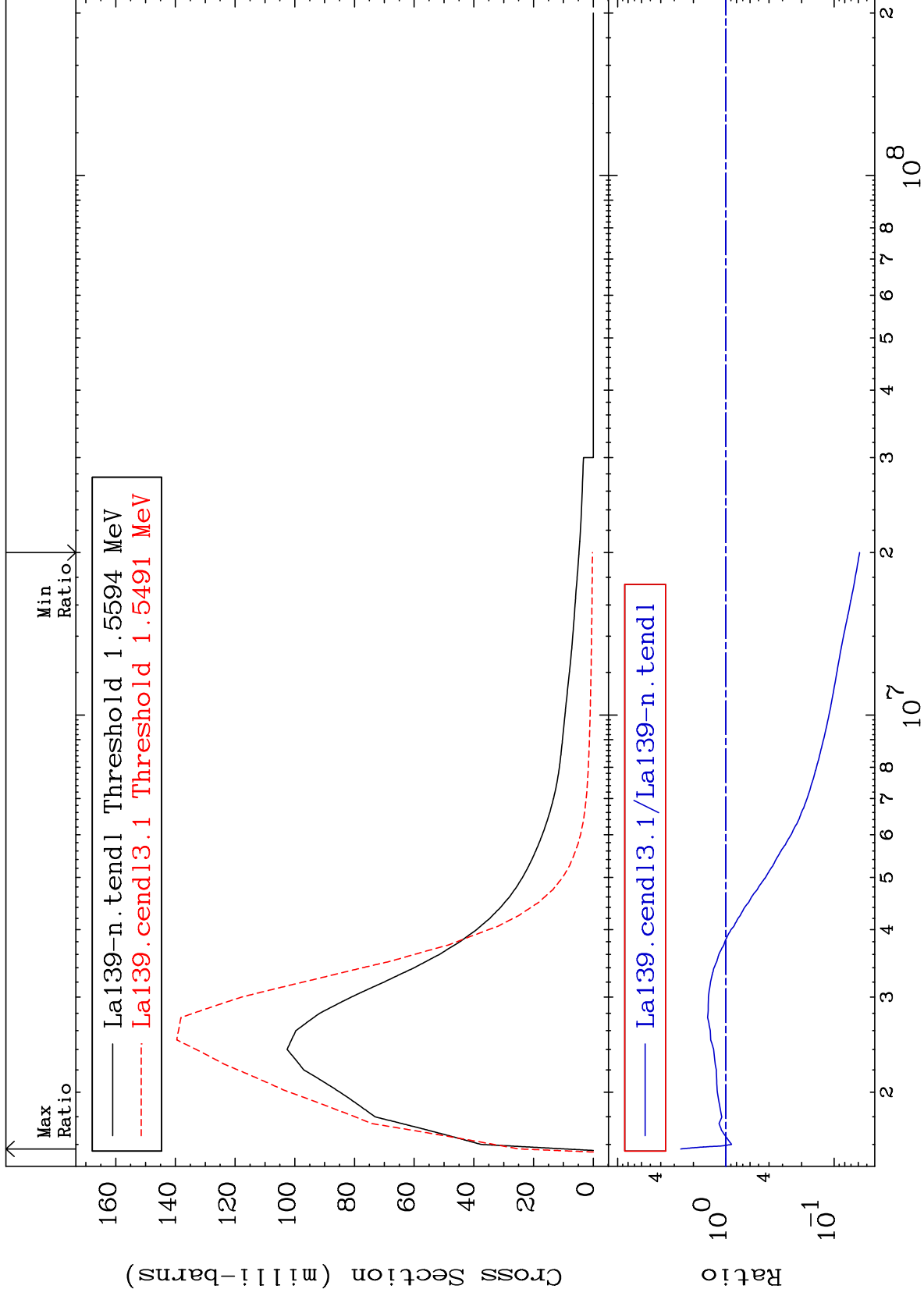
MAT 5728

1.548 MeV (n,n') Level

57-La-139

-94.17 To 161.2 %

Cross Section



17

Incident Energy (eV)

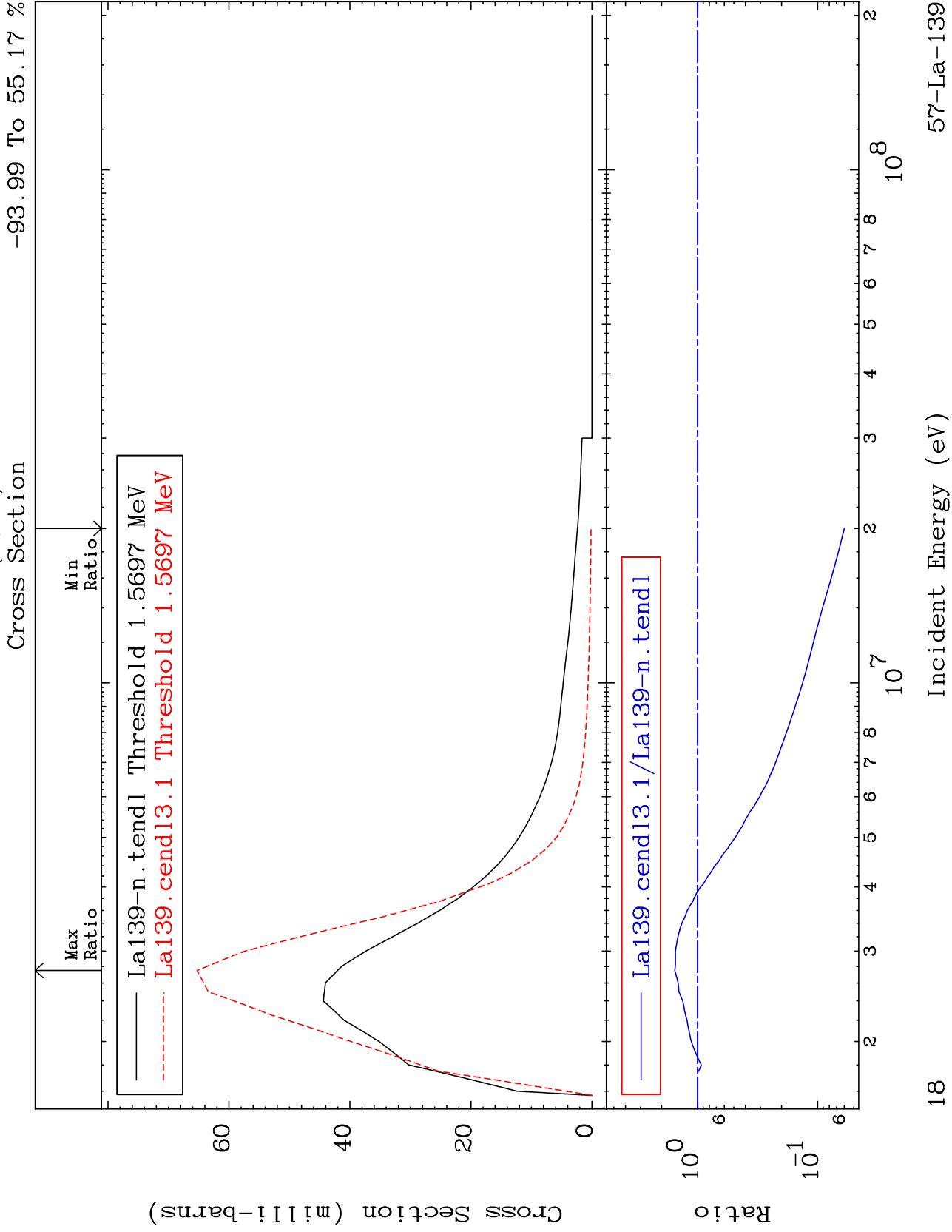
57-La-139

MAT 5728

1.558 MeV (n,n') Level

57-La-139

-93.99 To 55.17 %



18

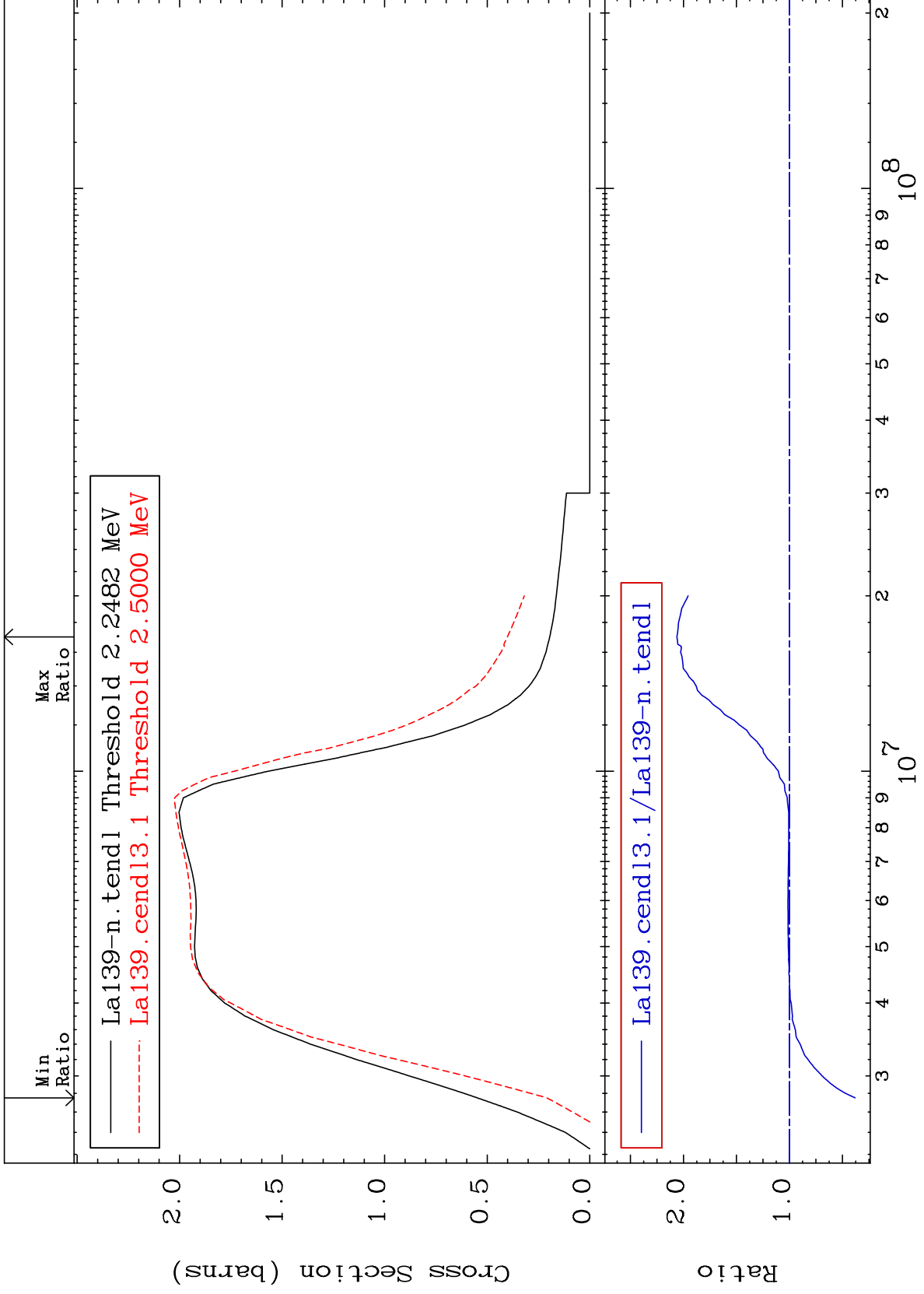
Incident Energy (eV)

57-La-139

MAT 5728

(n, n') Continuum  
Cross Section

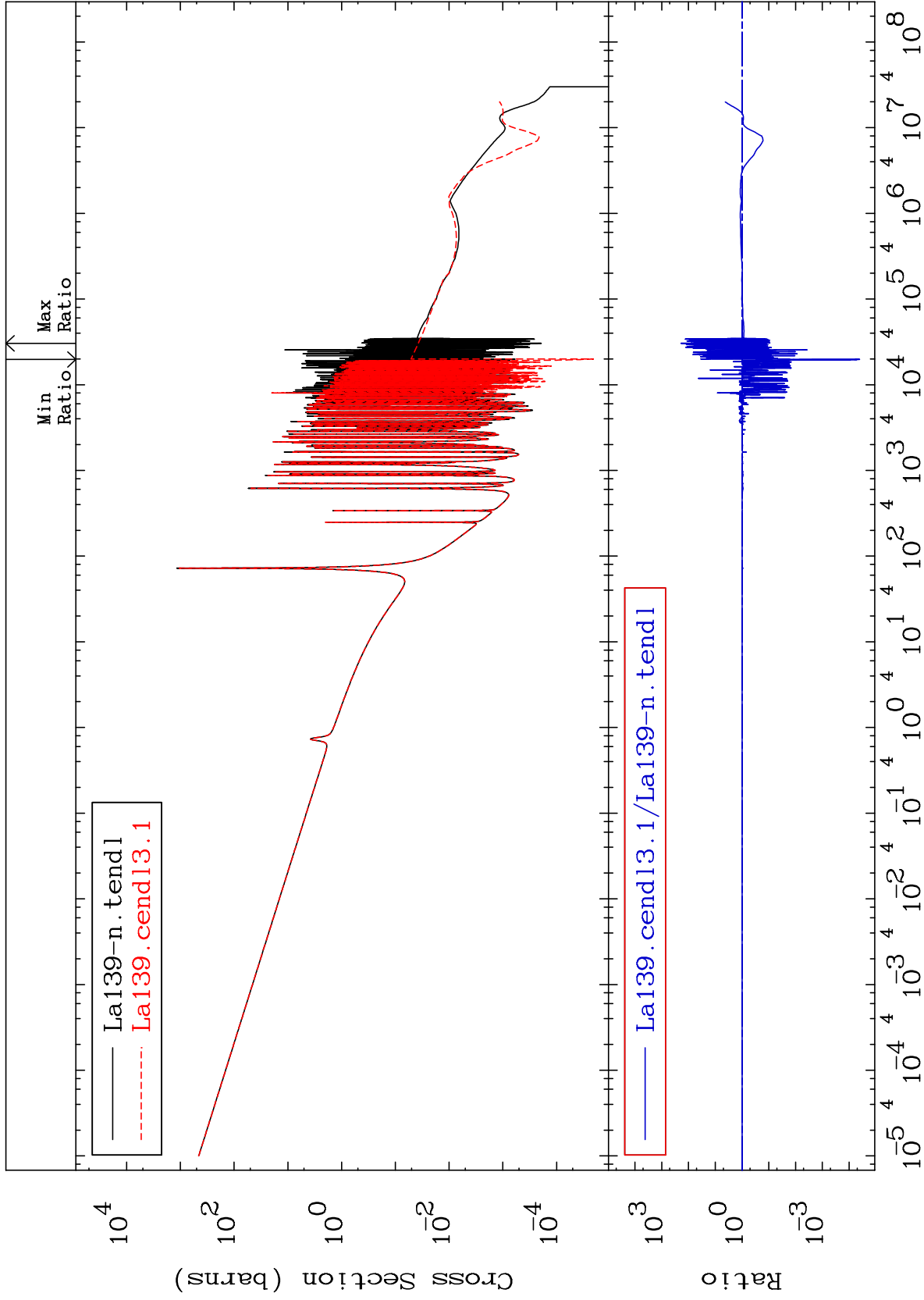
57-La-139  
-61.94 To 106.2 %



MAT 5728

57-La-139

(n,  $\gamma$ )  
Cross Section  
-100.0 To 9999. %



20

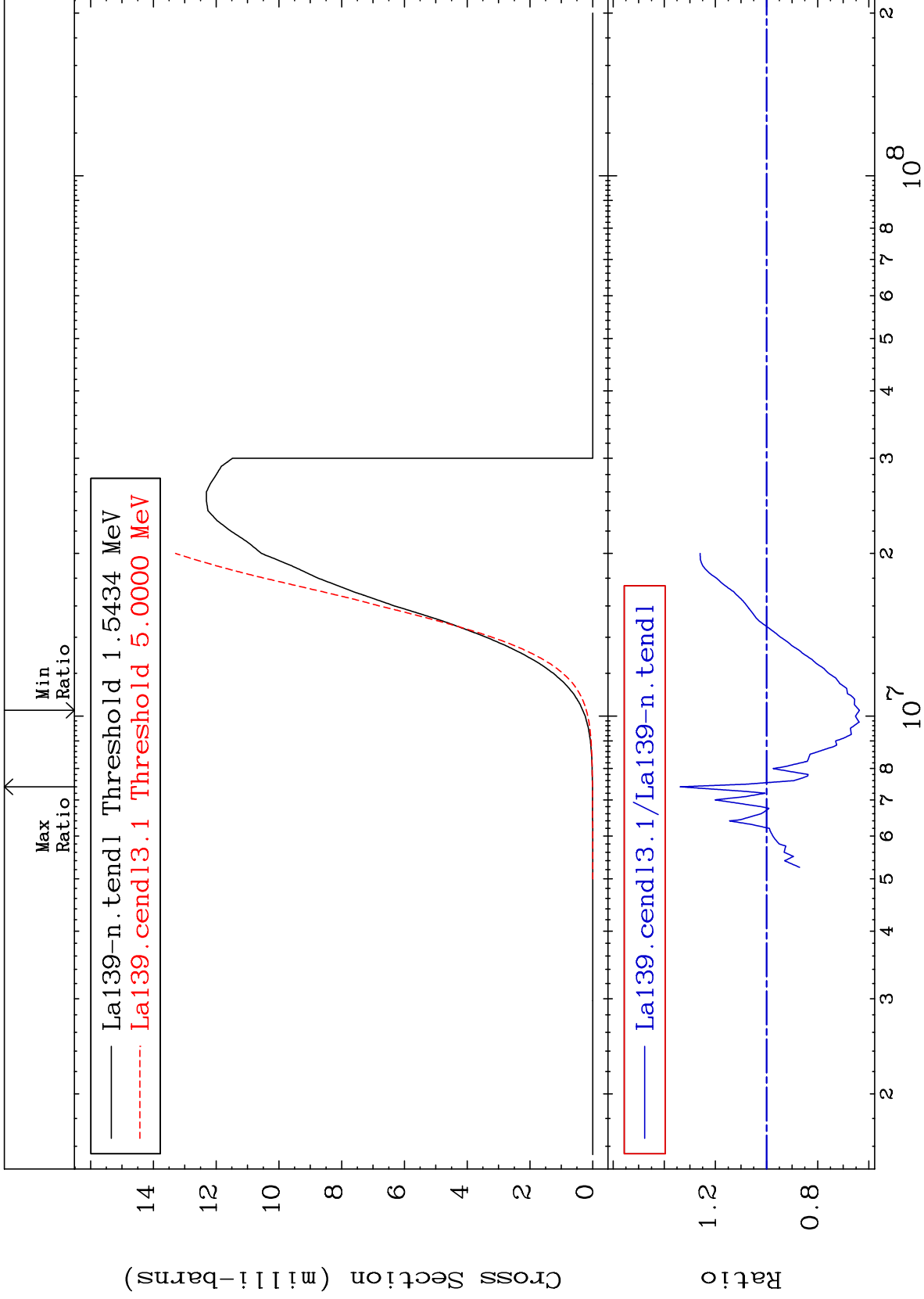
Incident Energy (eV)

57-La-139

MAT 5728

(n, p)  
Cross Section

57-La-139  
-36.33 To 33.71 %



21

Incident Energy (eV)

57-La-139

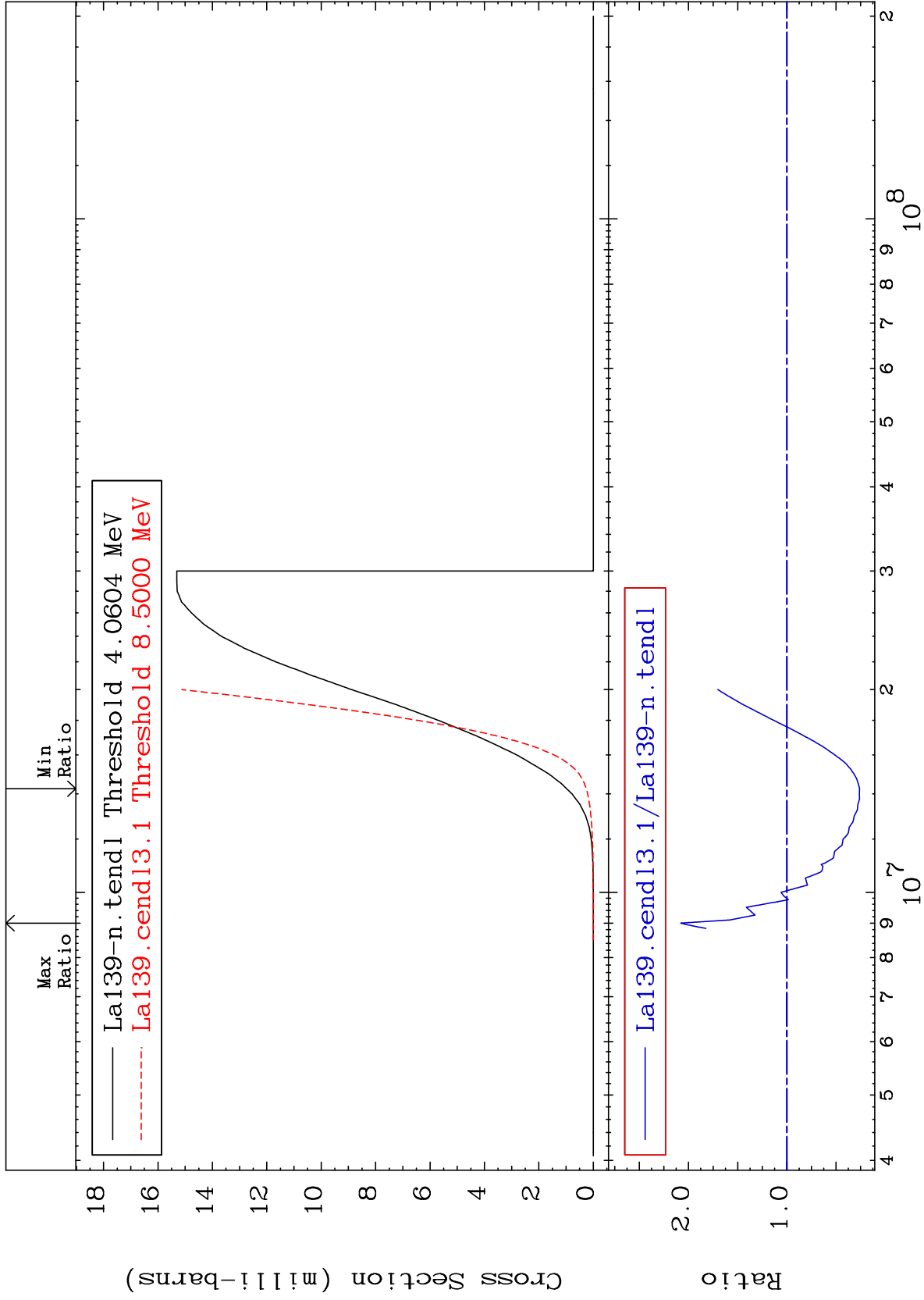
MAT 5728

(n, d)

57-La-139

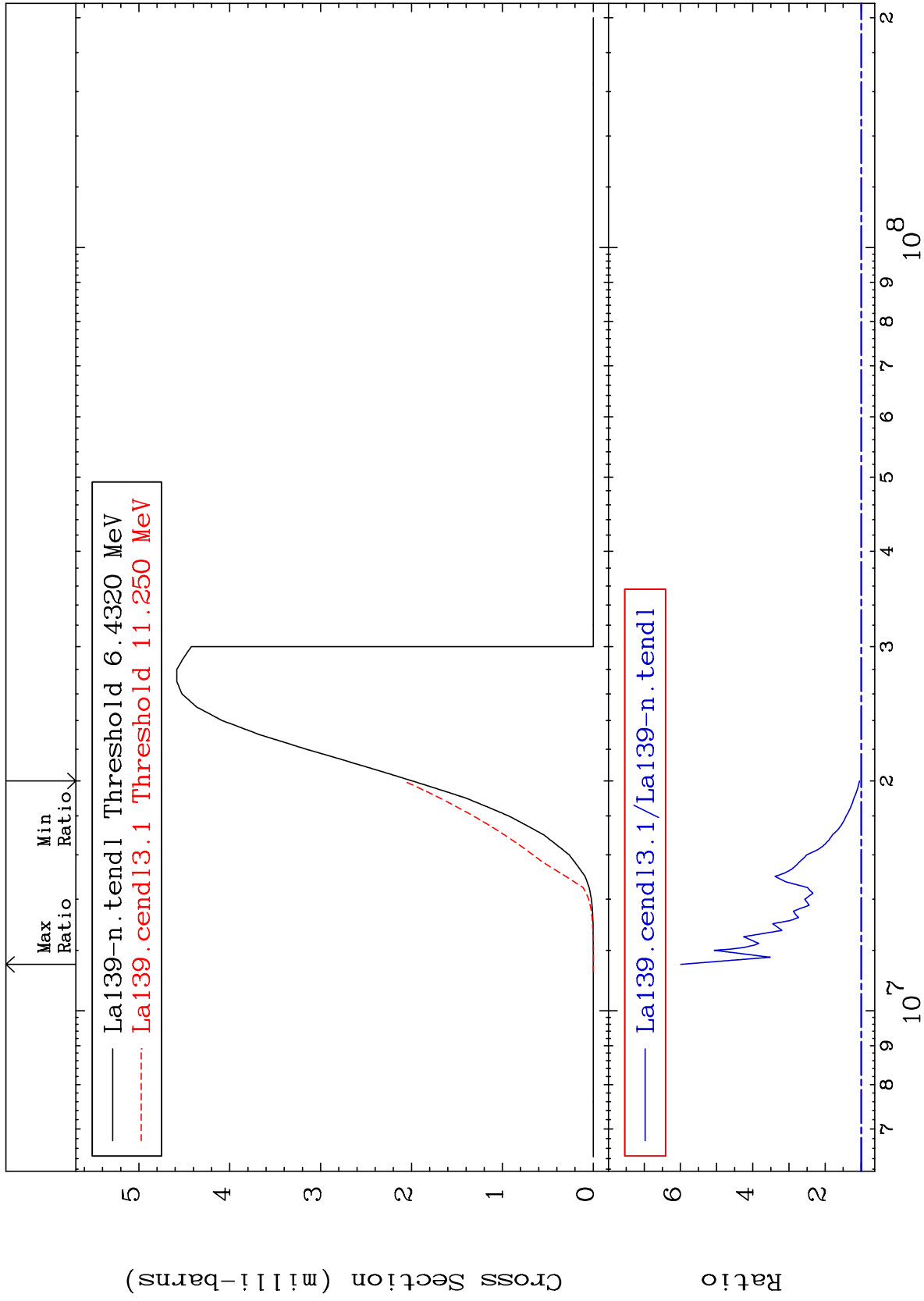
Cross Section

-73.87 To 107.9 %



MAT 5728

(n, t)  
Cross Section  
57-La-139  
4.805 To 499.0 %



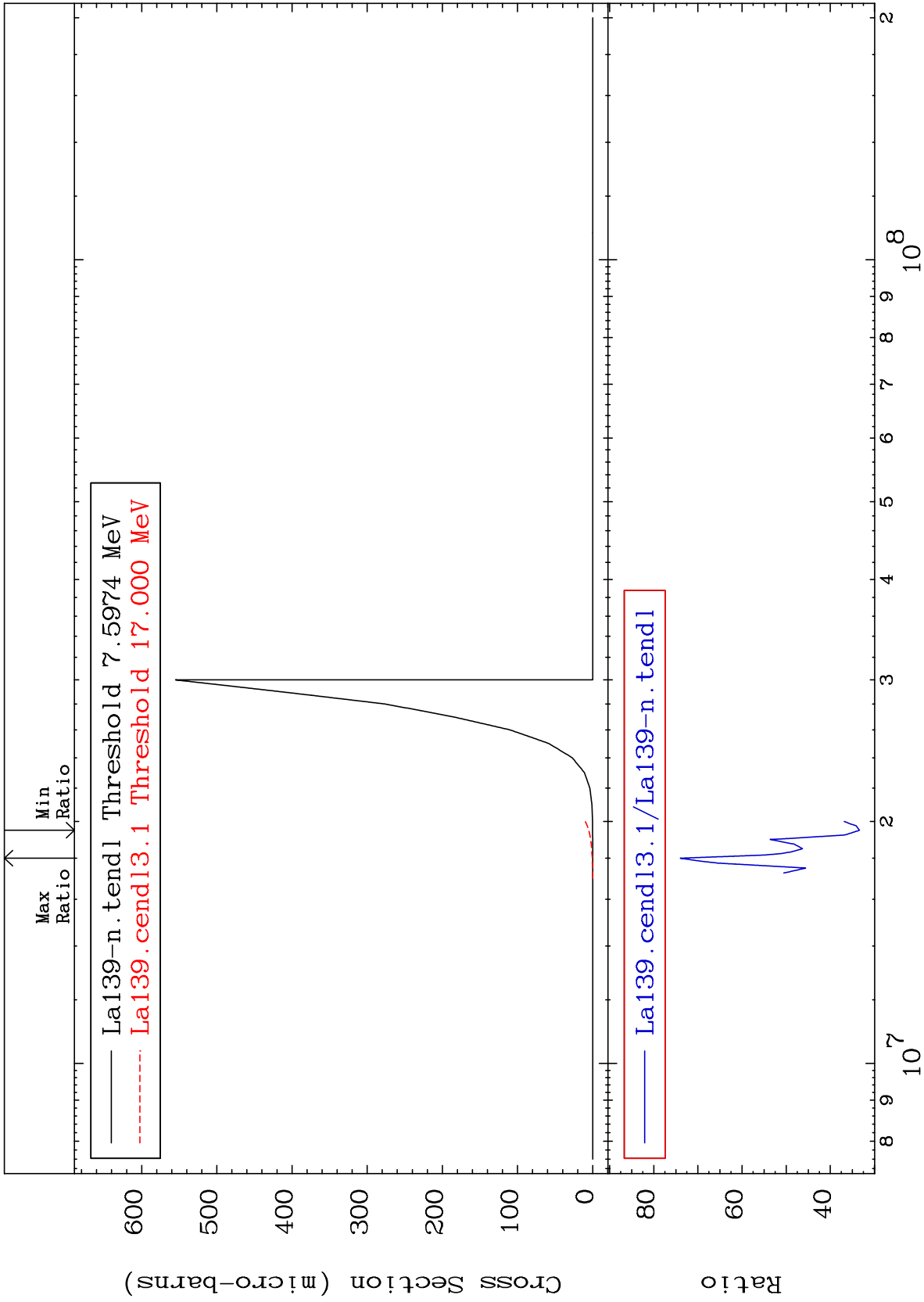
MAT 5728

(n, He-3)

57-La-139

Cross Section

3241. To 7298. %



24

Incident Energy (eV)

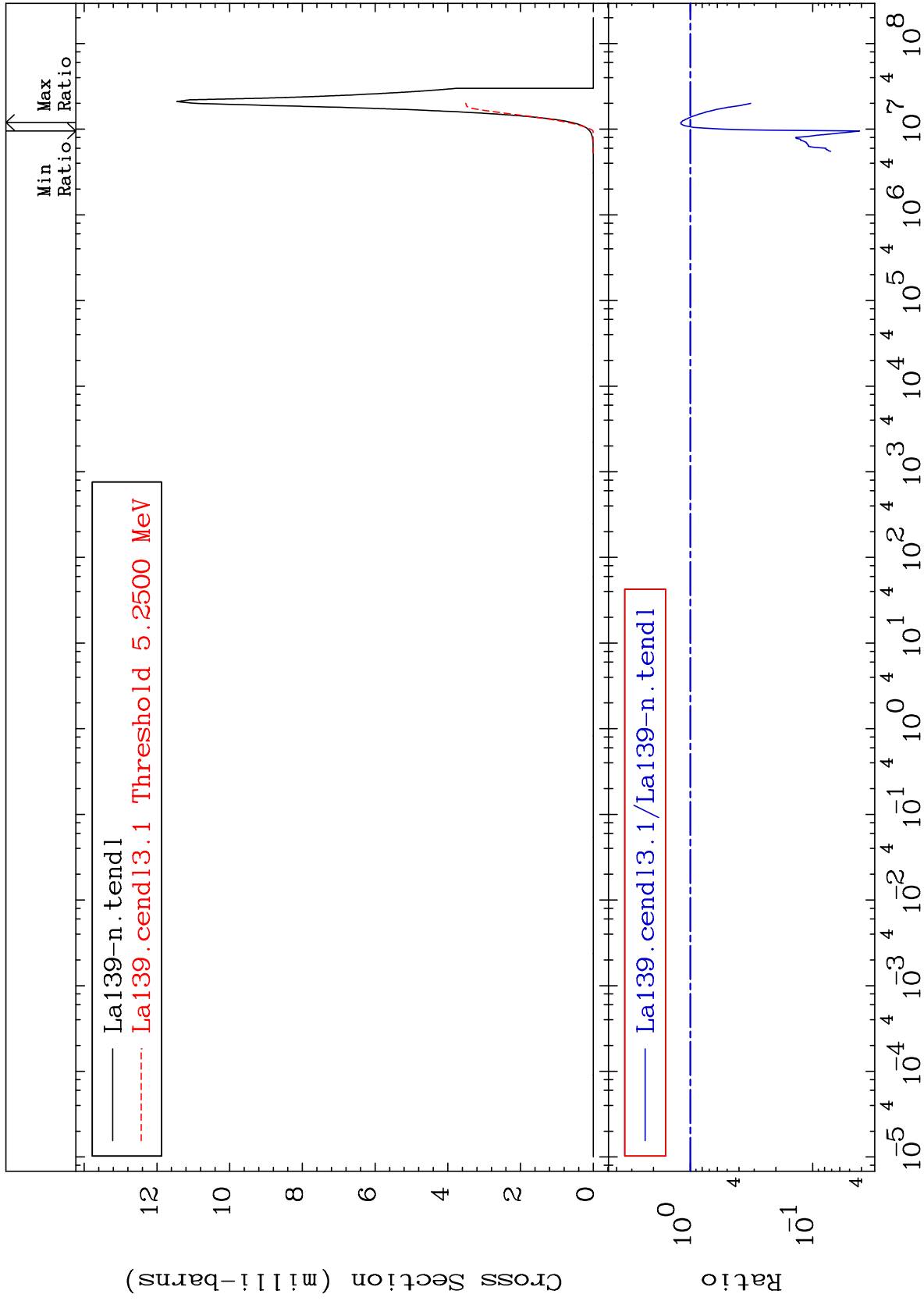
57-La-139



MAT 5728

(n,  $\alpha$ )  
Cross Section

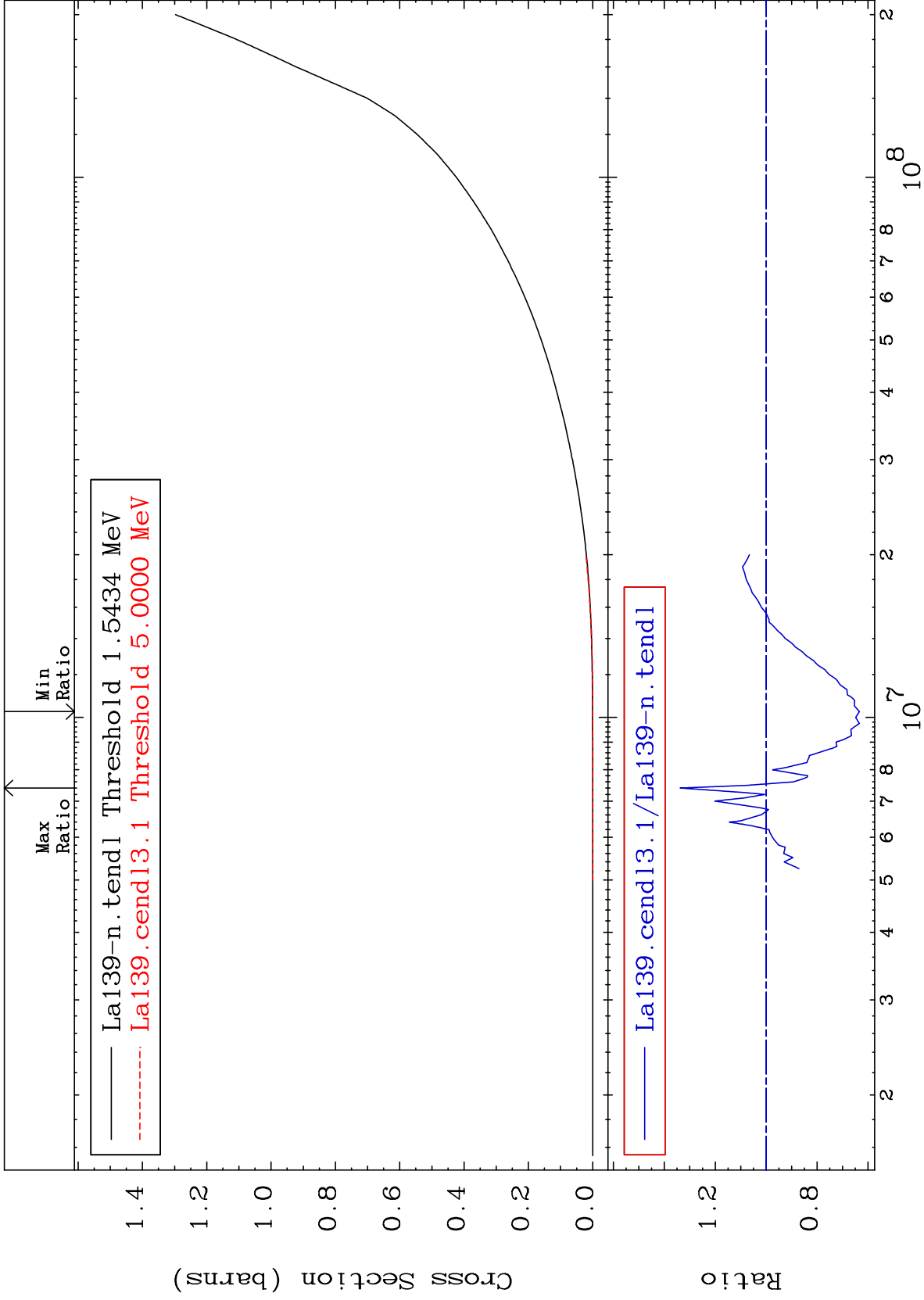
57-La-139  
-95.86 To 19.50 %

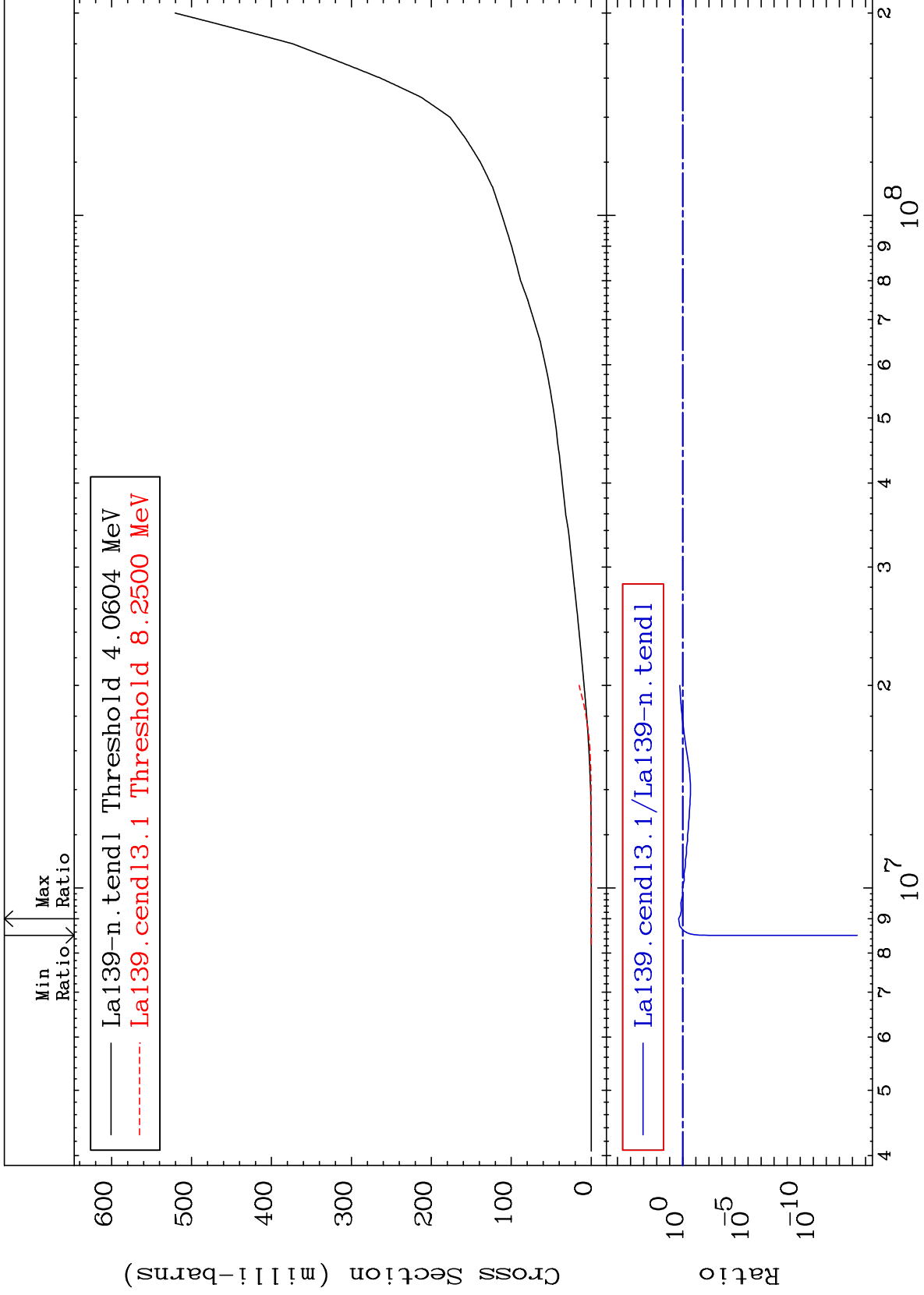


25

Incident Energy (eV)

57-La-139

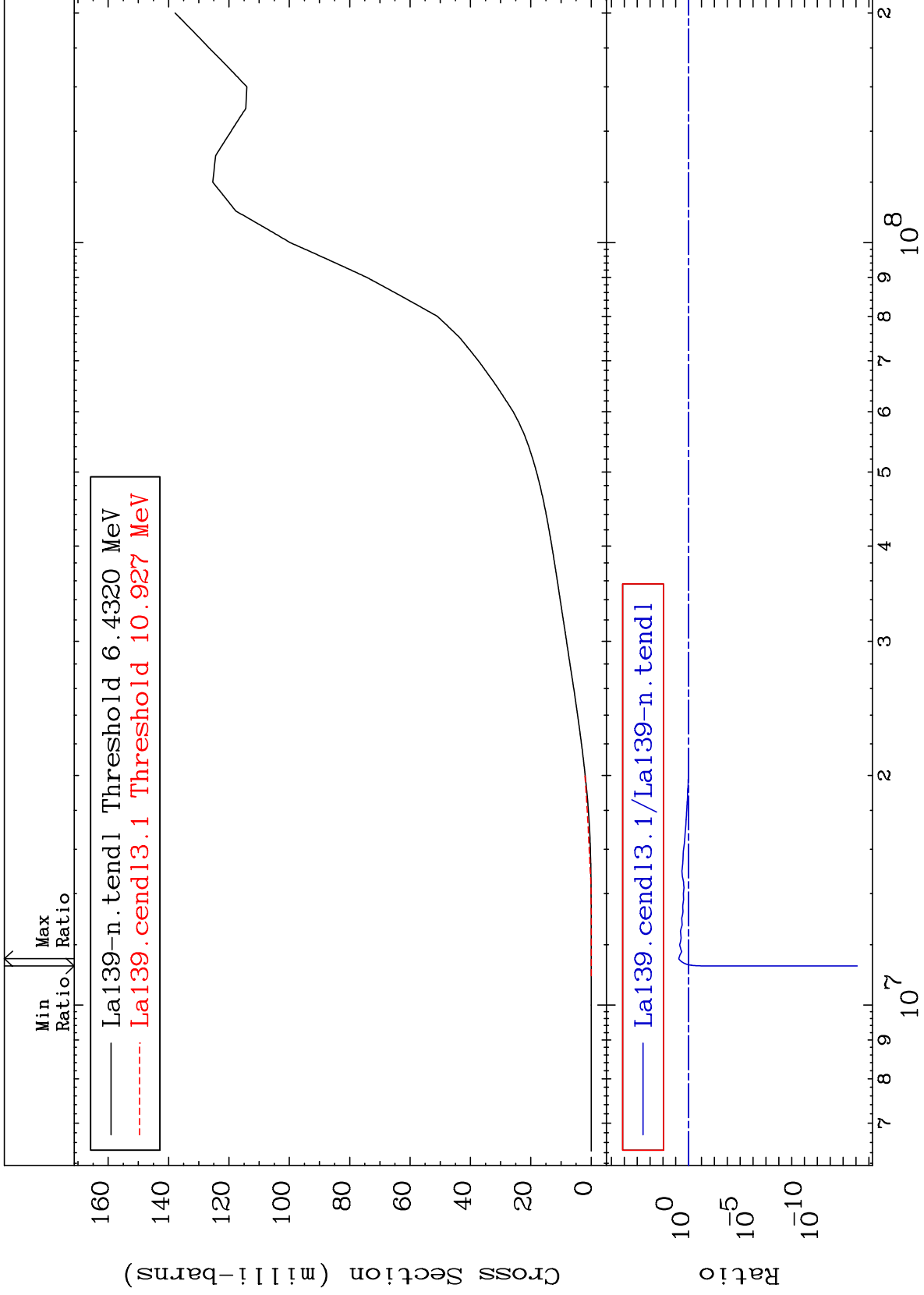




MAT 5728

Tritium Production  
Cross Section

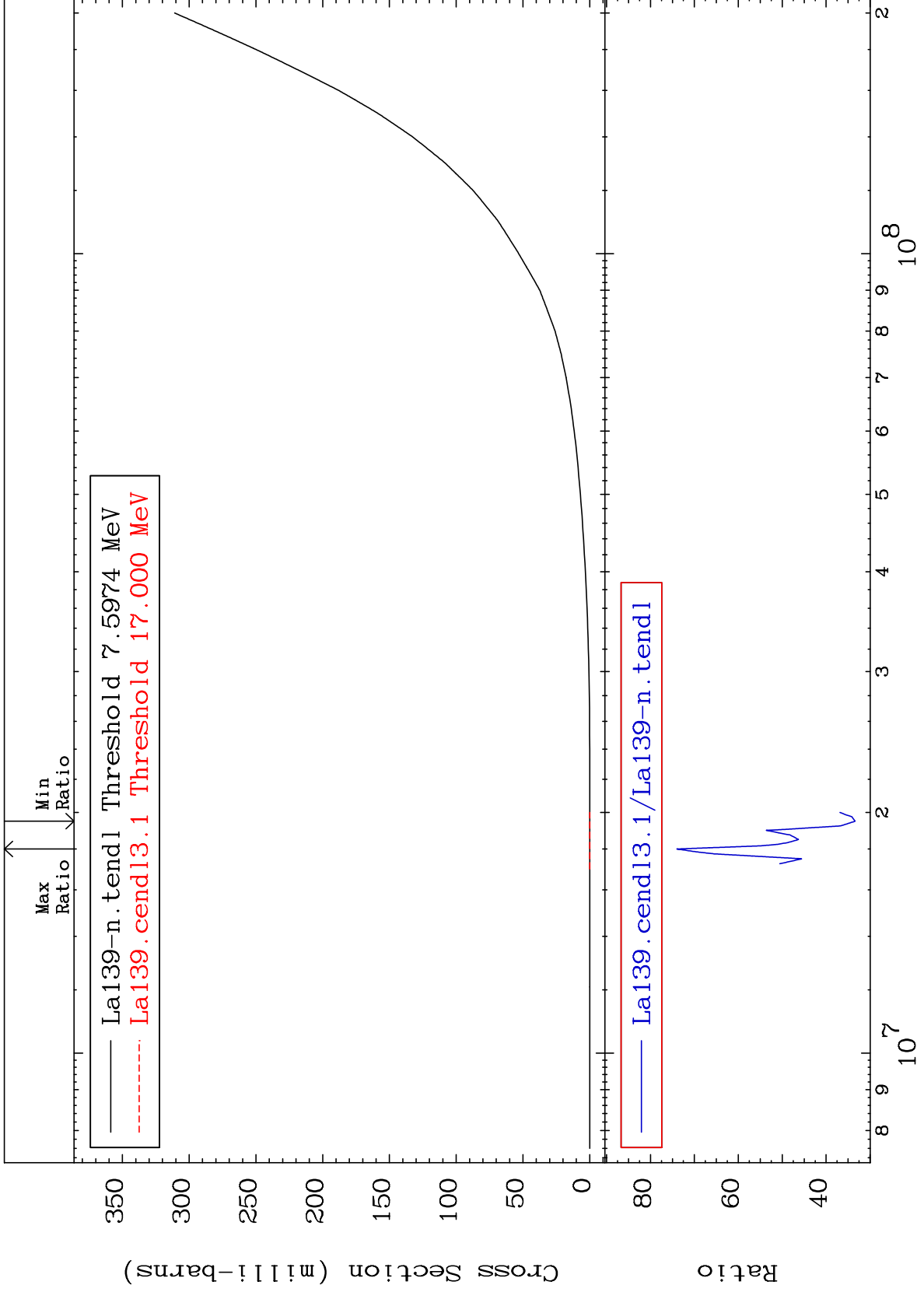
57-La-139  
-100.0 To 499.0 %



MAT 5728

He-3 Production  
Cross Section

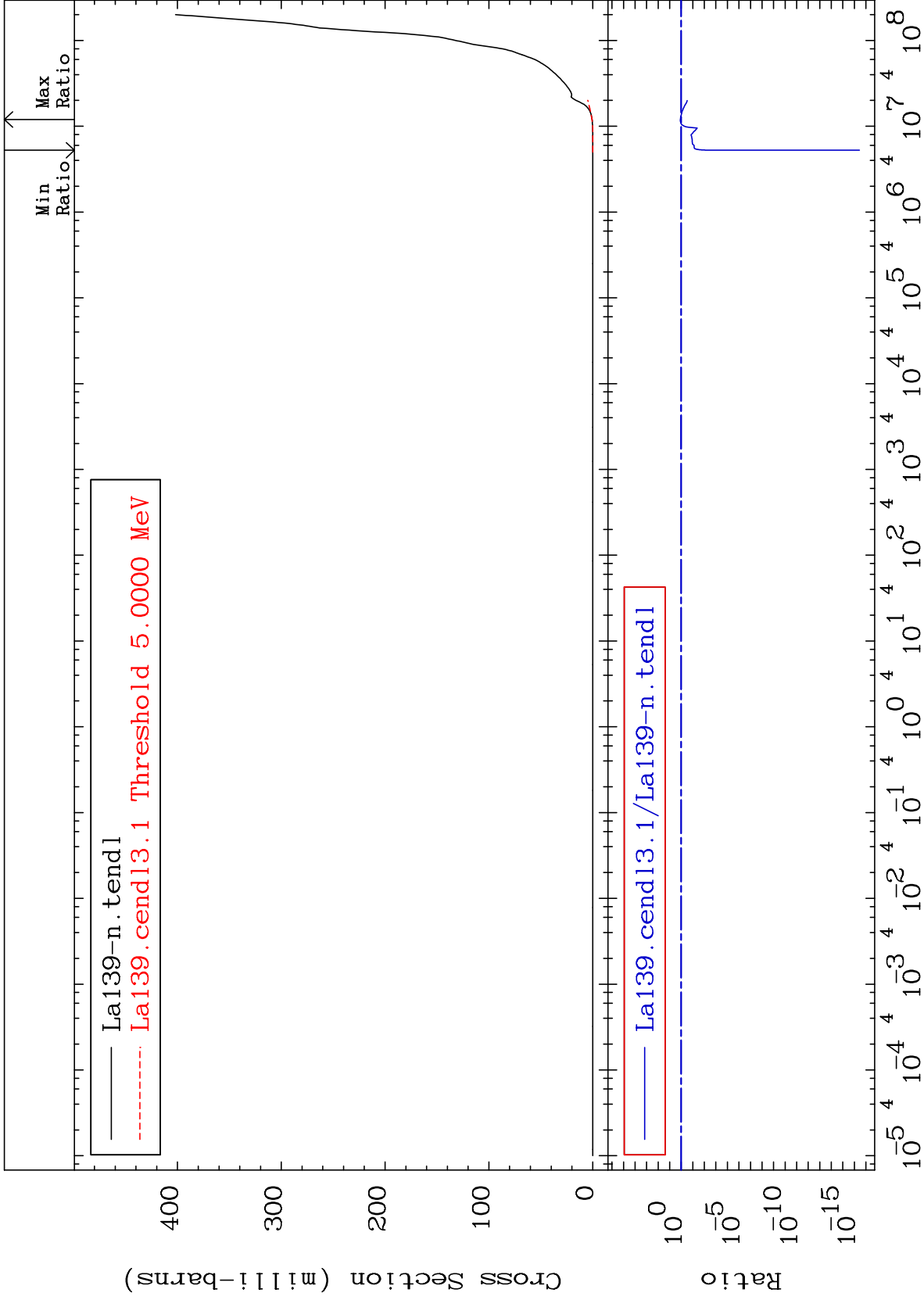
57-La-139  
3241. To 7298. %



MAT 5728

He-4 Production  
Cross Section

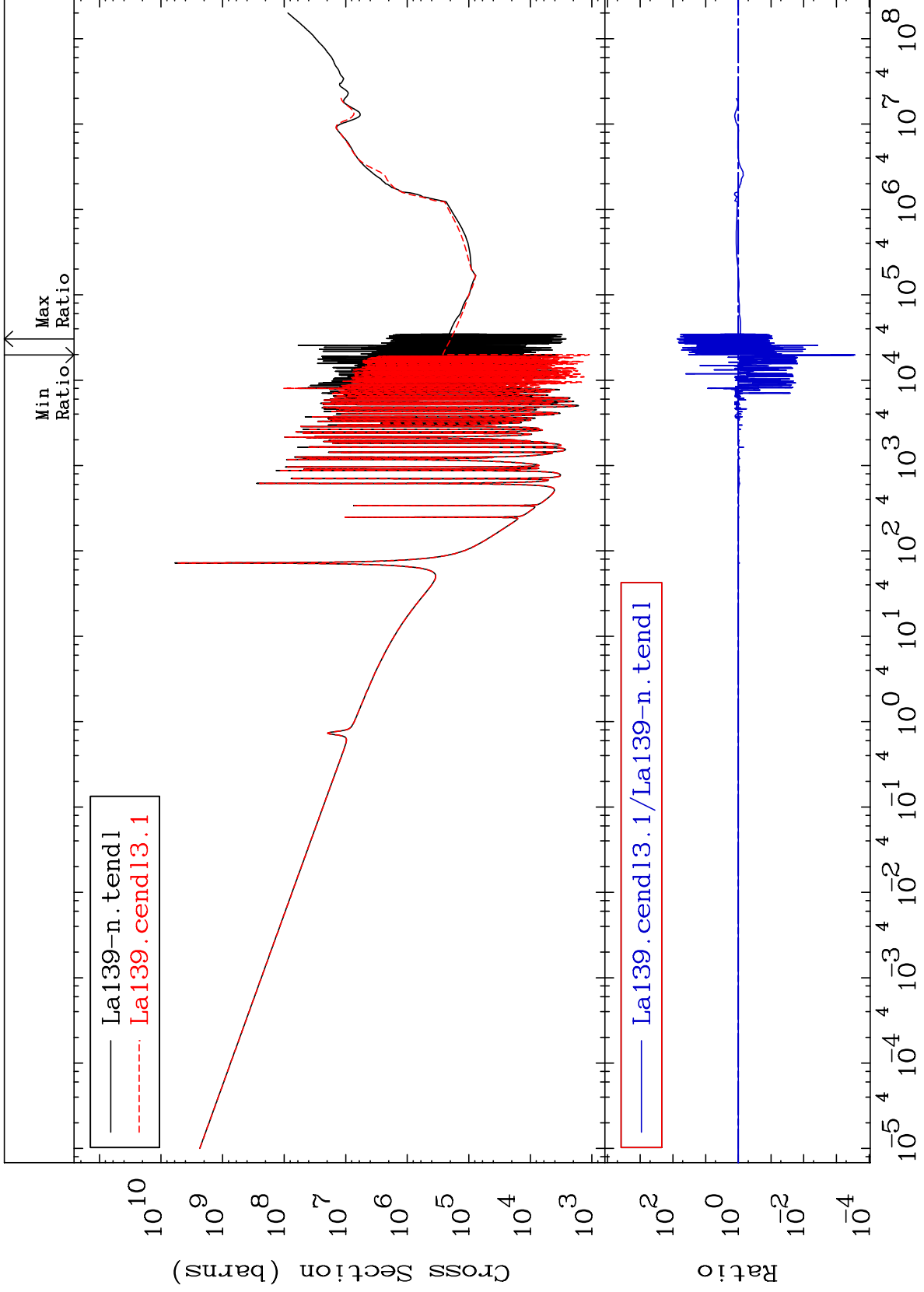
57-La-139  
-100.0 To 18.93 %



30

Incident Energy (eV)

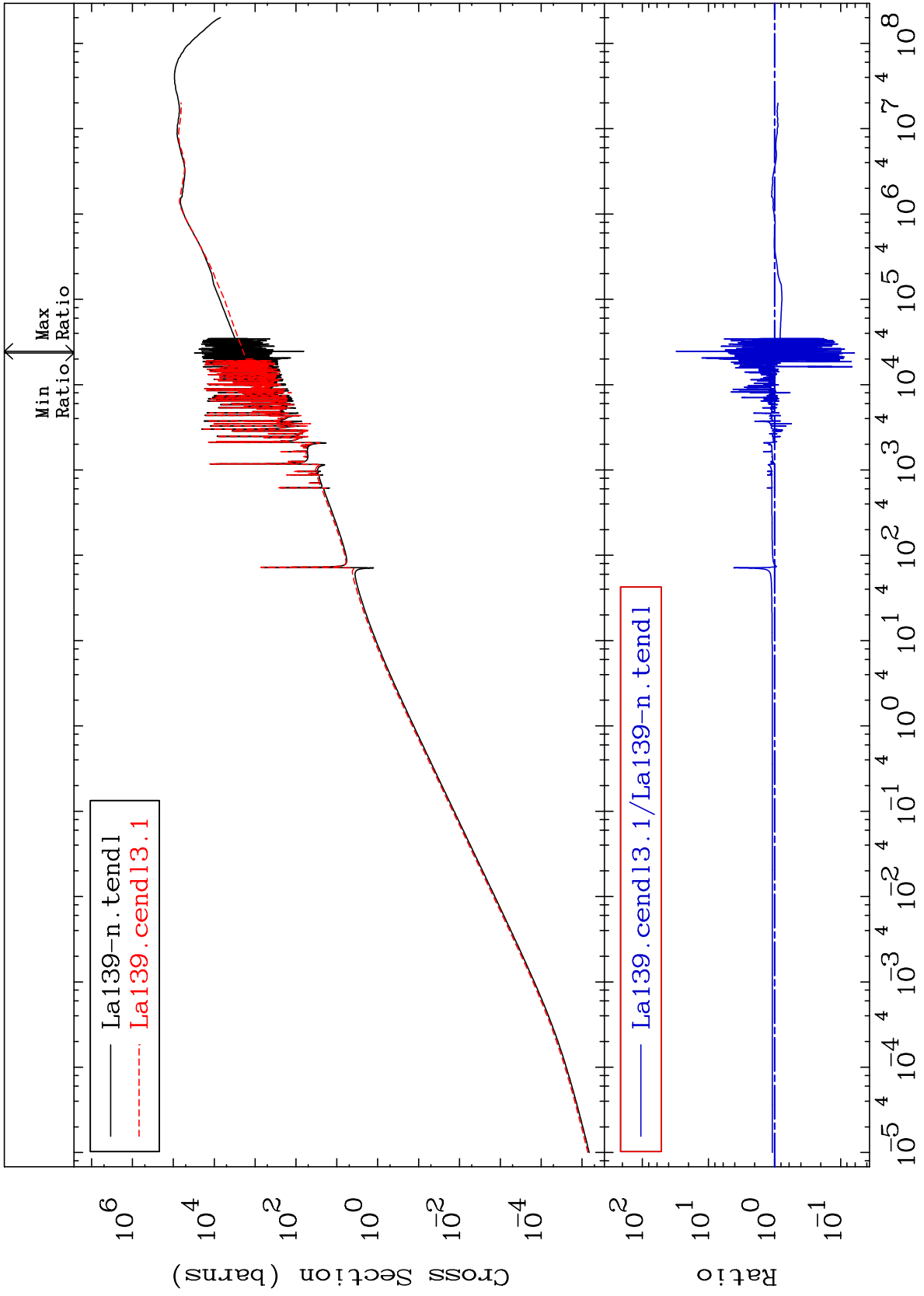
57-La-139



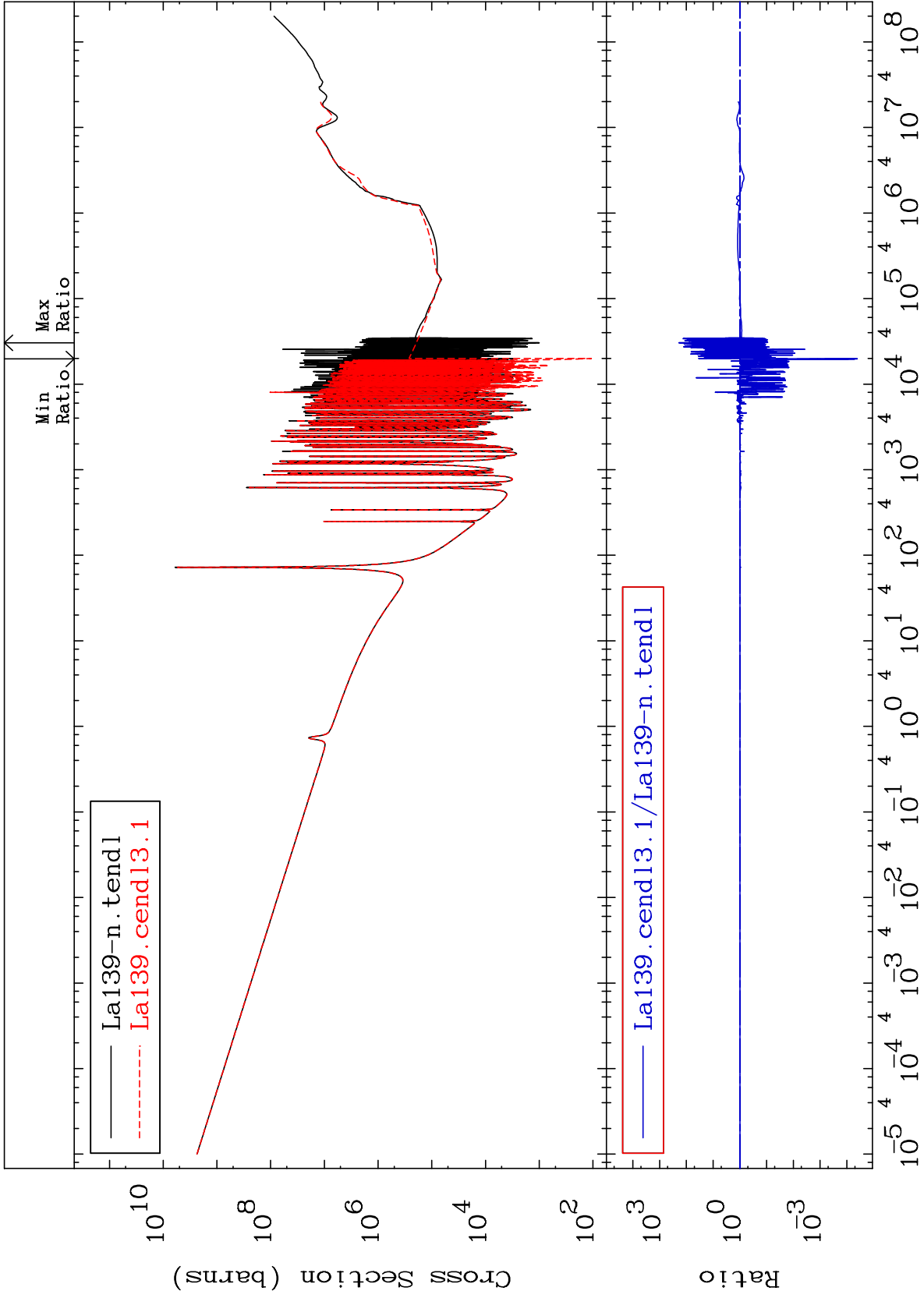
MAT 5728

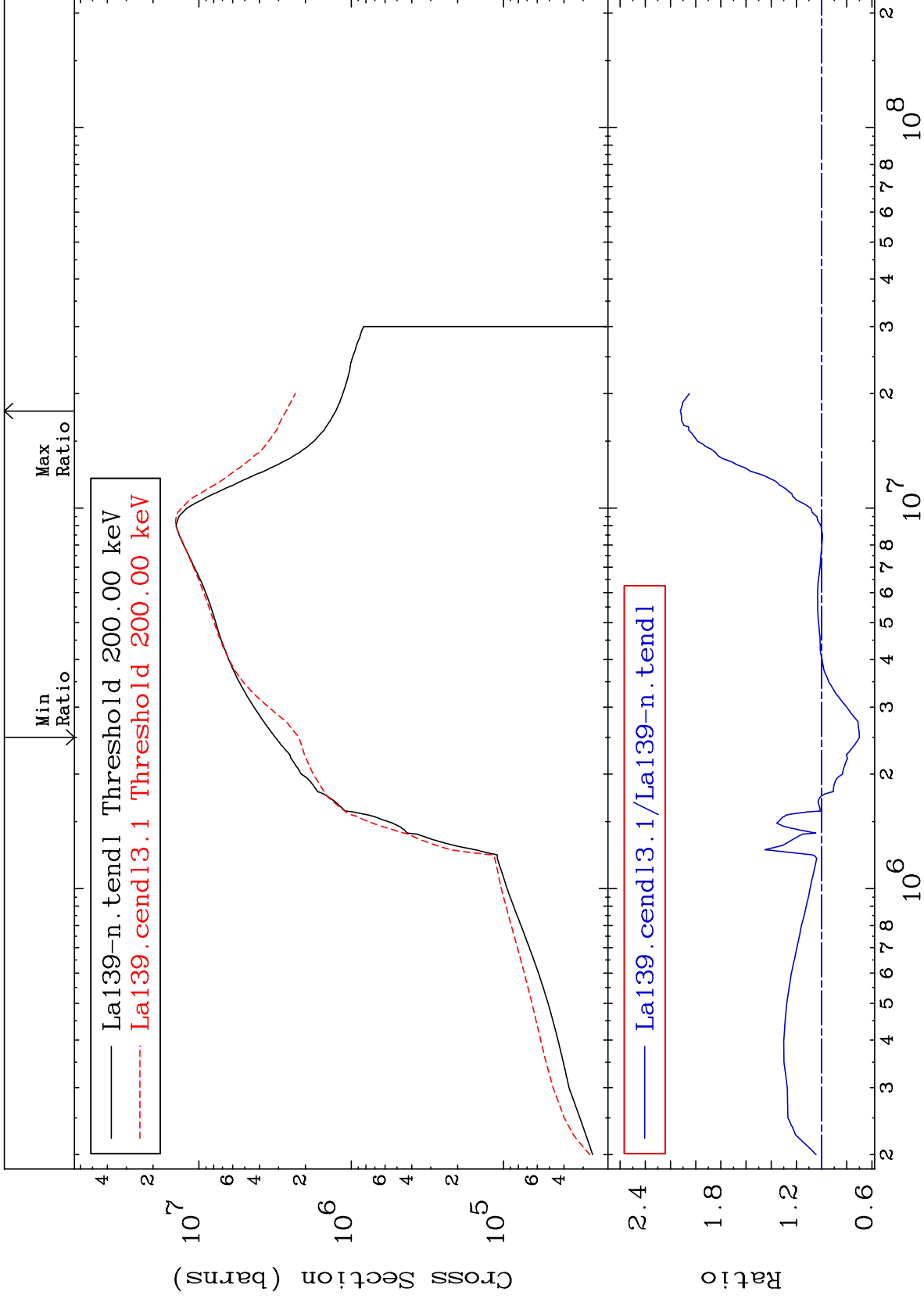
Kerma elastic  
Cross Section

57-La-139  
-93.81 To 2952. %





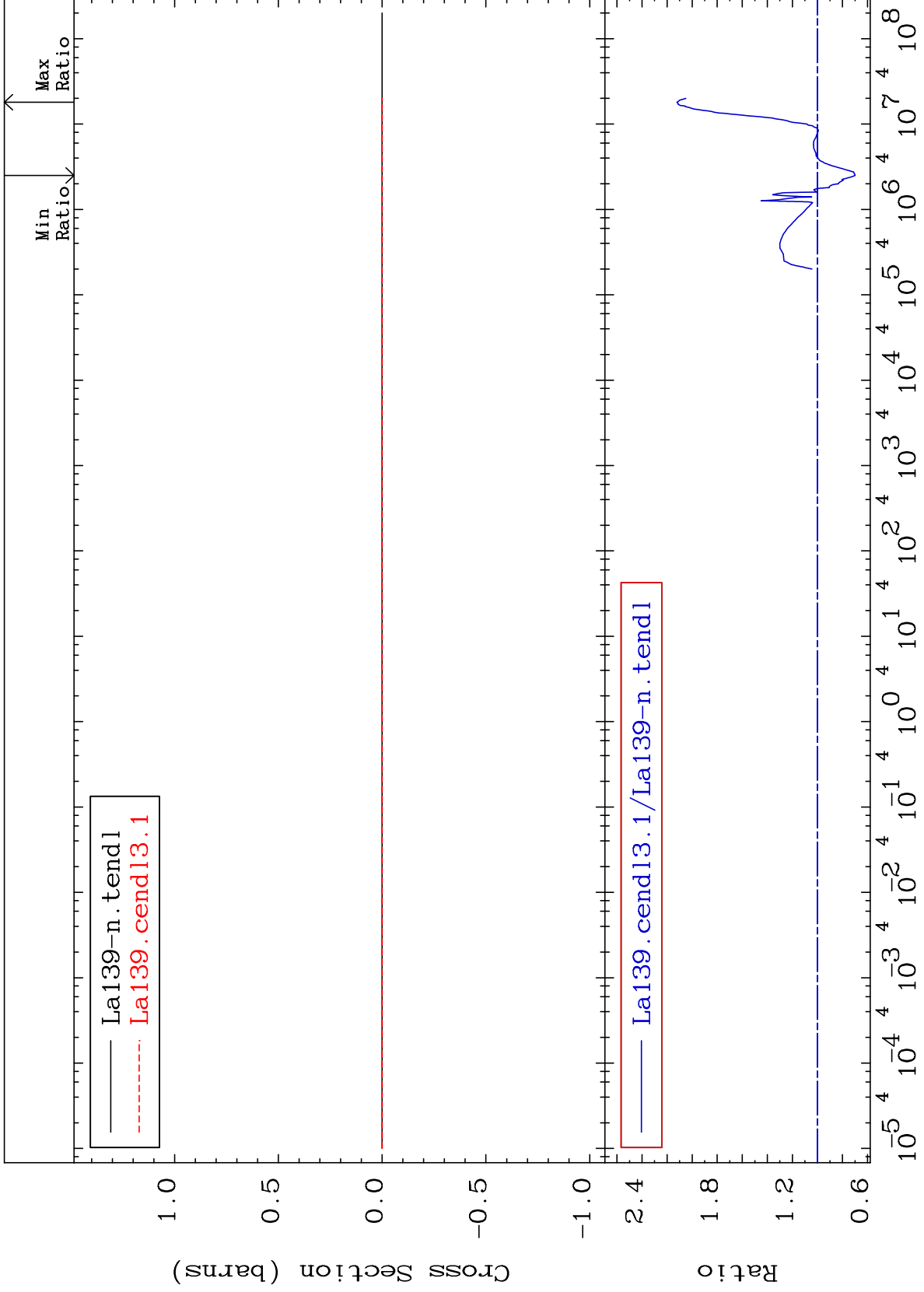




MAT 5728

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

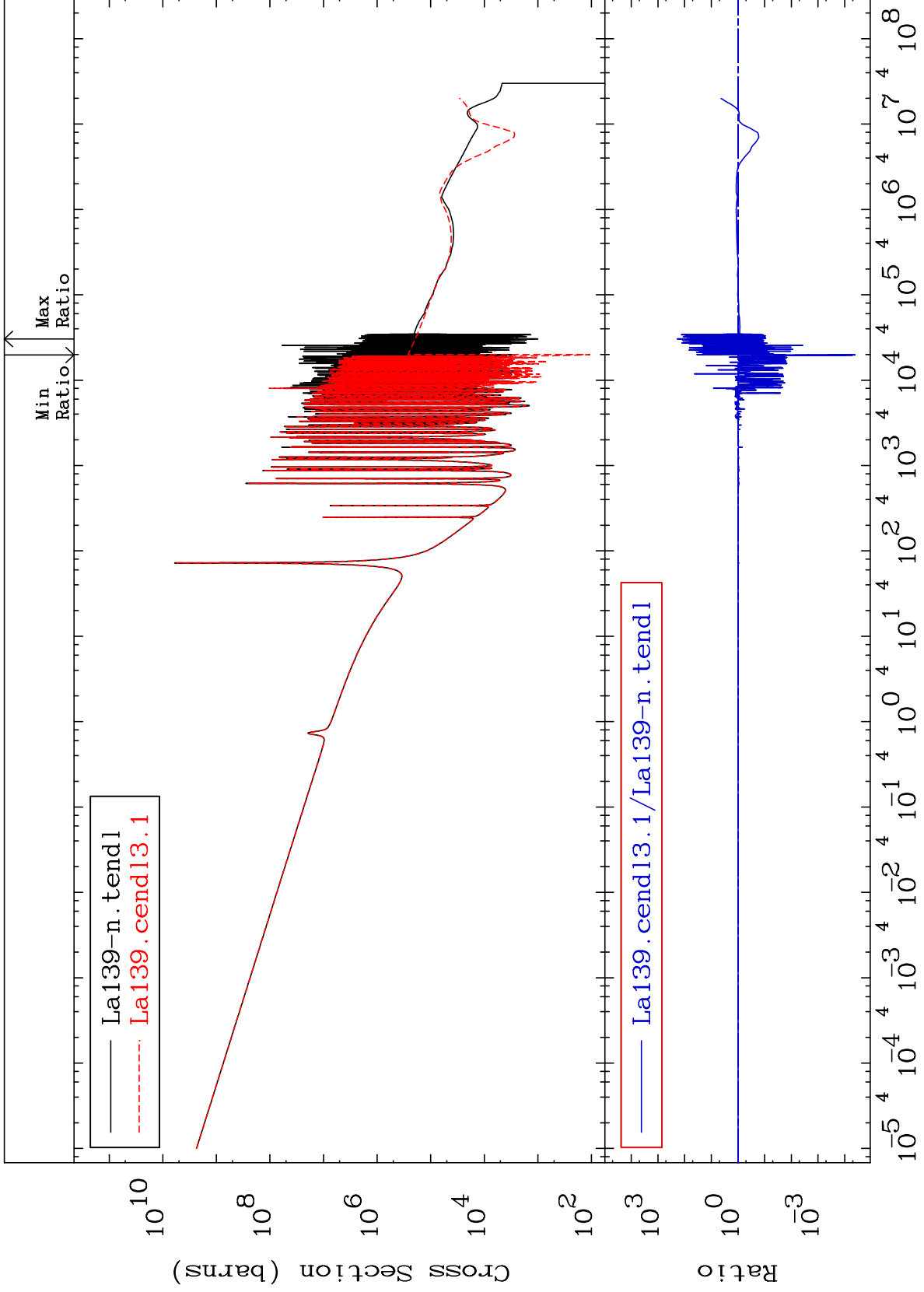
57-La-139  
-30.06 To 112.2 %



MAT 5728

Kerma capture (mt102)  
Cross Section

57-La-139  
-100.0 To 9999. %



36

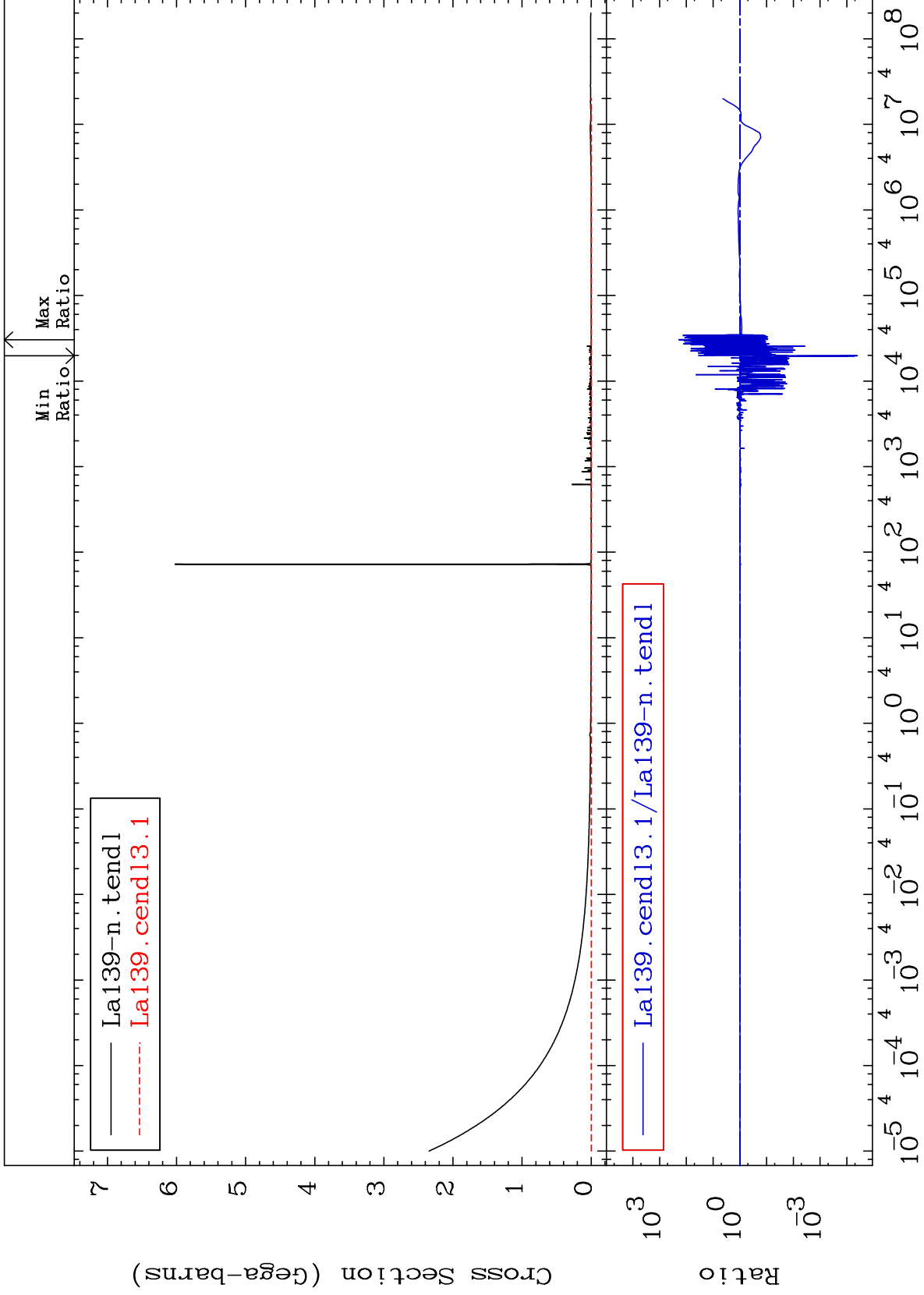
Incident Energy (eV)

57-La-139

MAT 5728

Total photon (eV-barns)  
Cross Section

57-La-139  
-100.0 To 9999. %



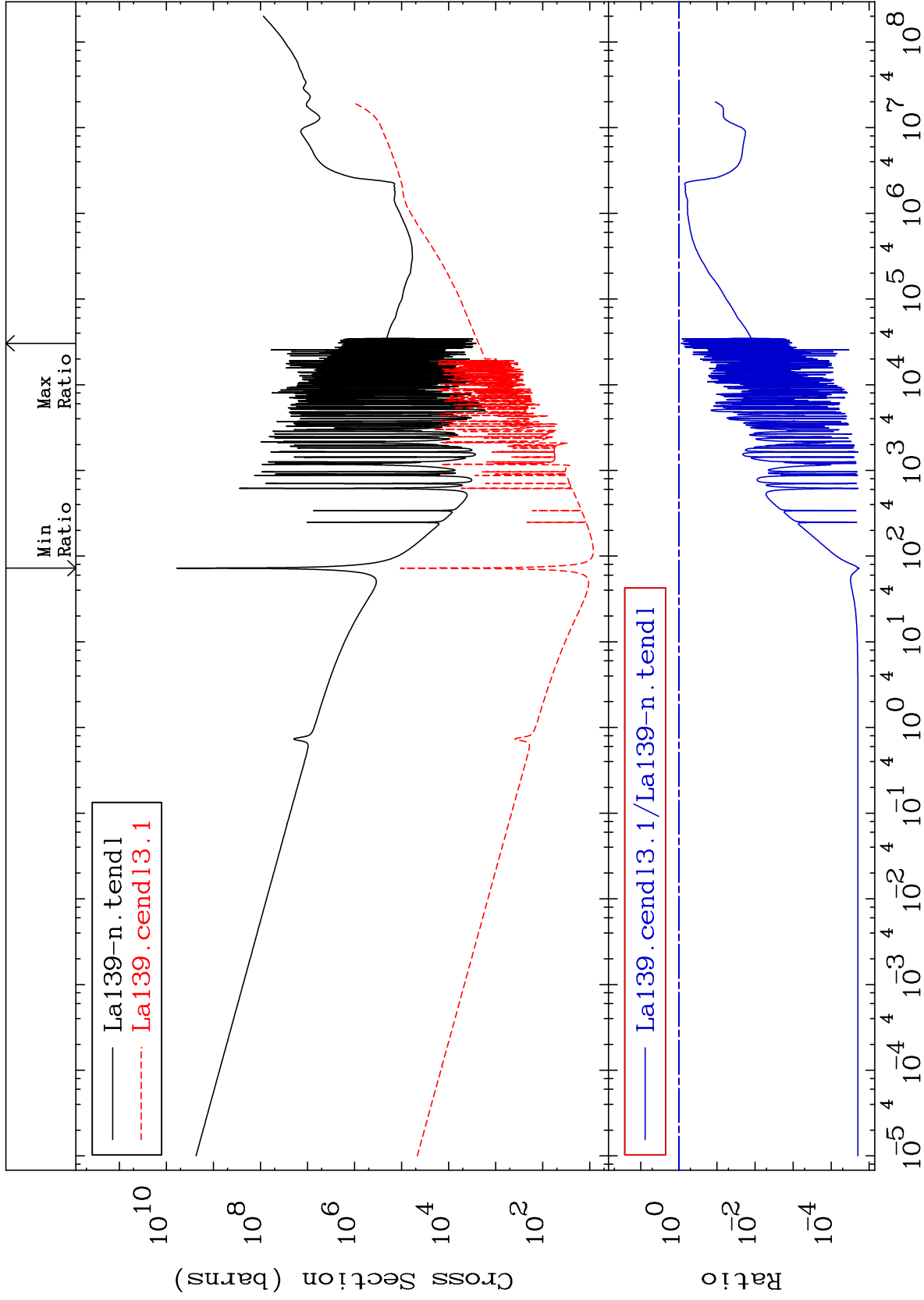
37

Incident Energy (eV)

57-La-139

Cross Section

-100.0 To -10.74%



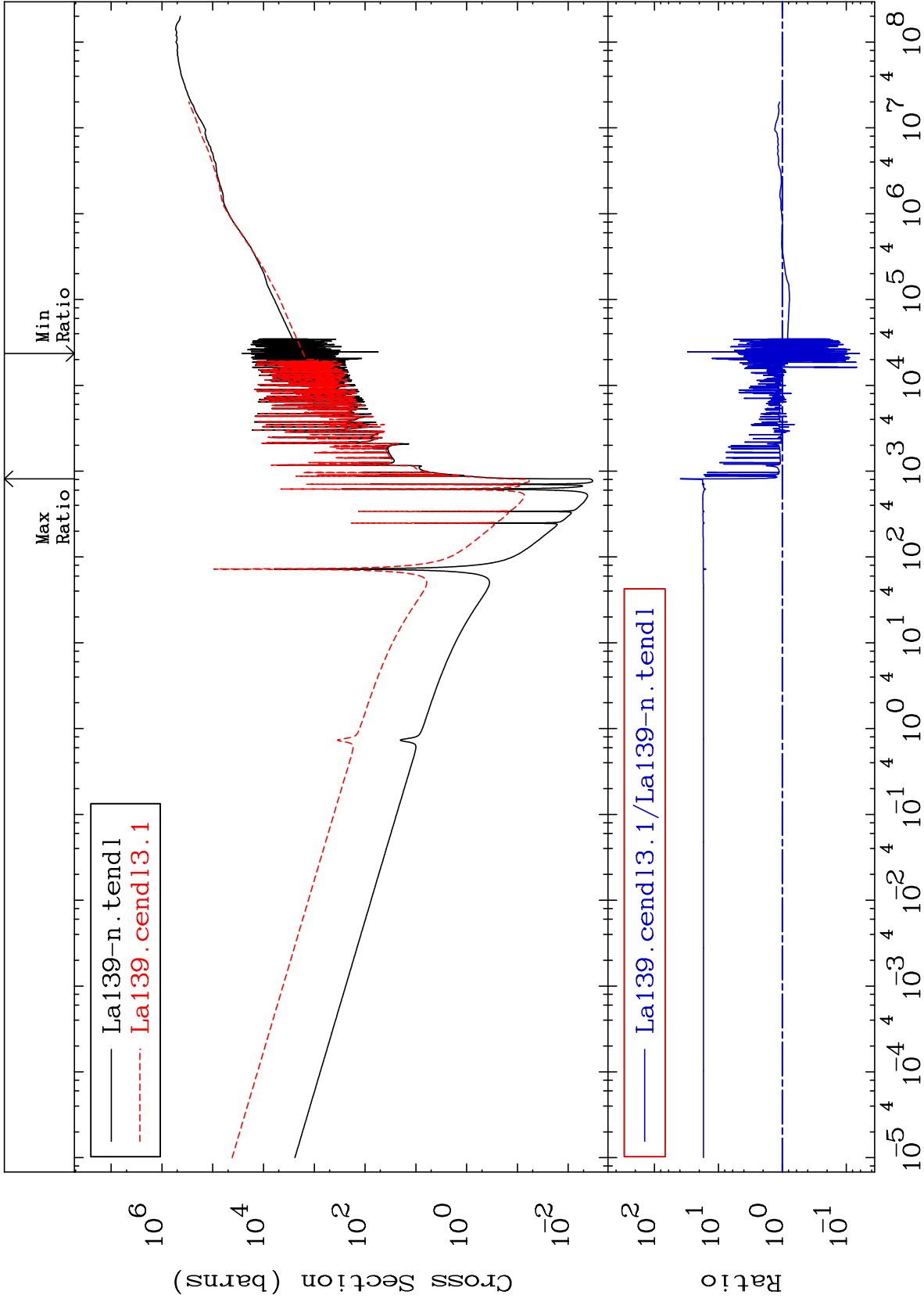
MAT 5728

Dpa total (eV-barns)

57-La-139

-93.77 To 3845. %

Cross Section



39

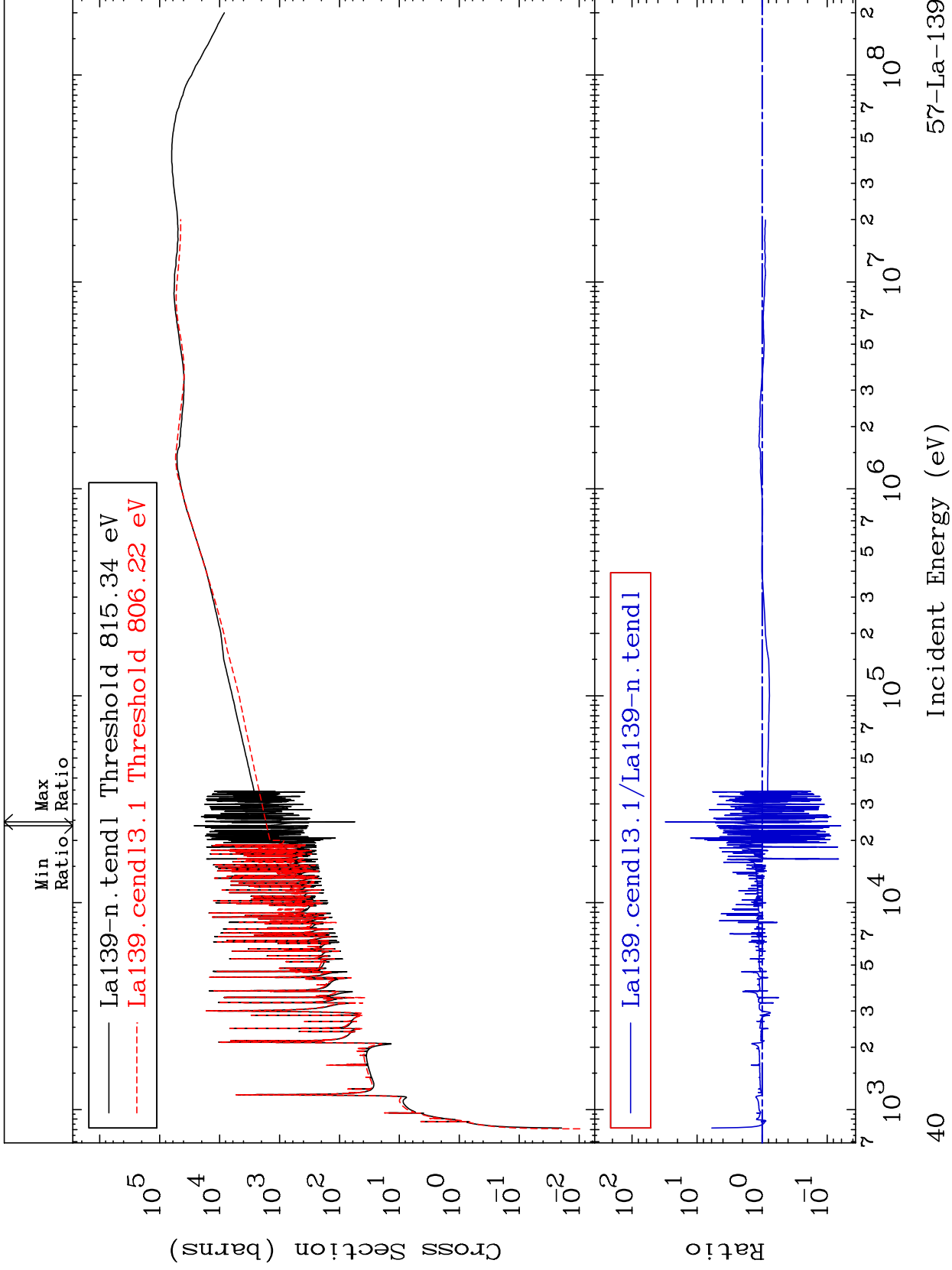
Incident Energy (eV)

57-La-139

MAT 5728

Dpa elastic (mt2)  
Cross Section

57-La-139  
-93.81 To 2953. %

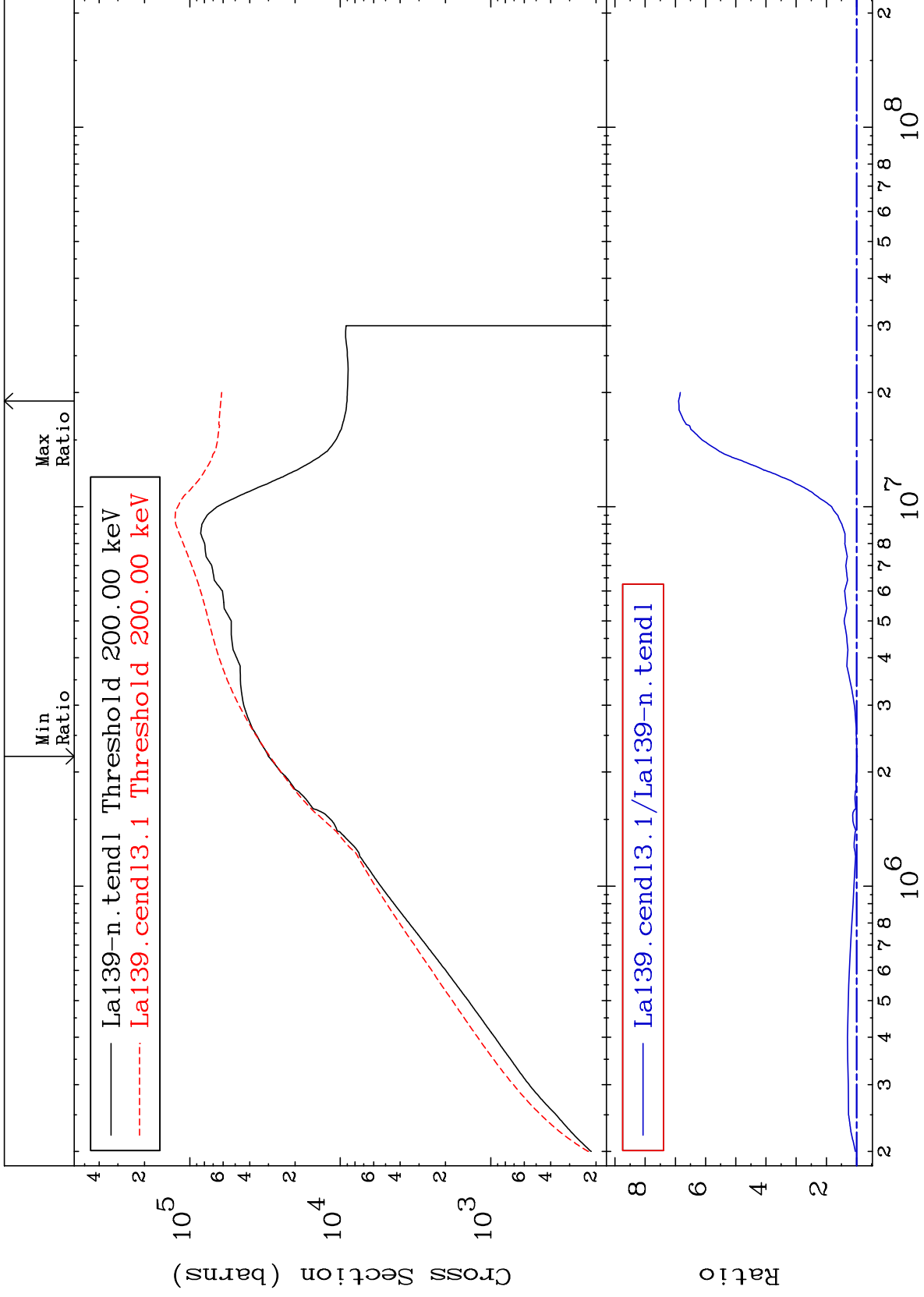




MAT 5728

Dpa inelastic (mt51-91)  
Cross Section

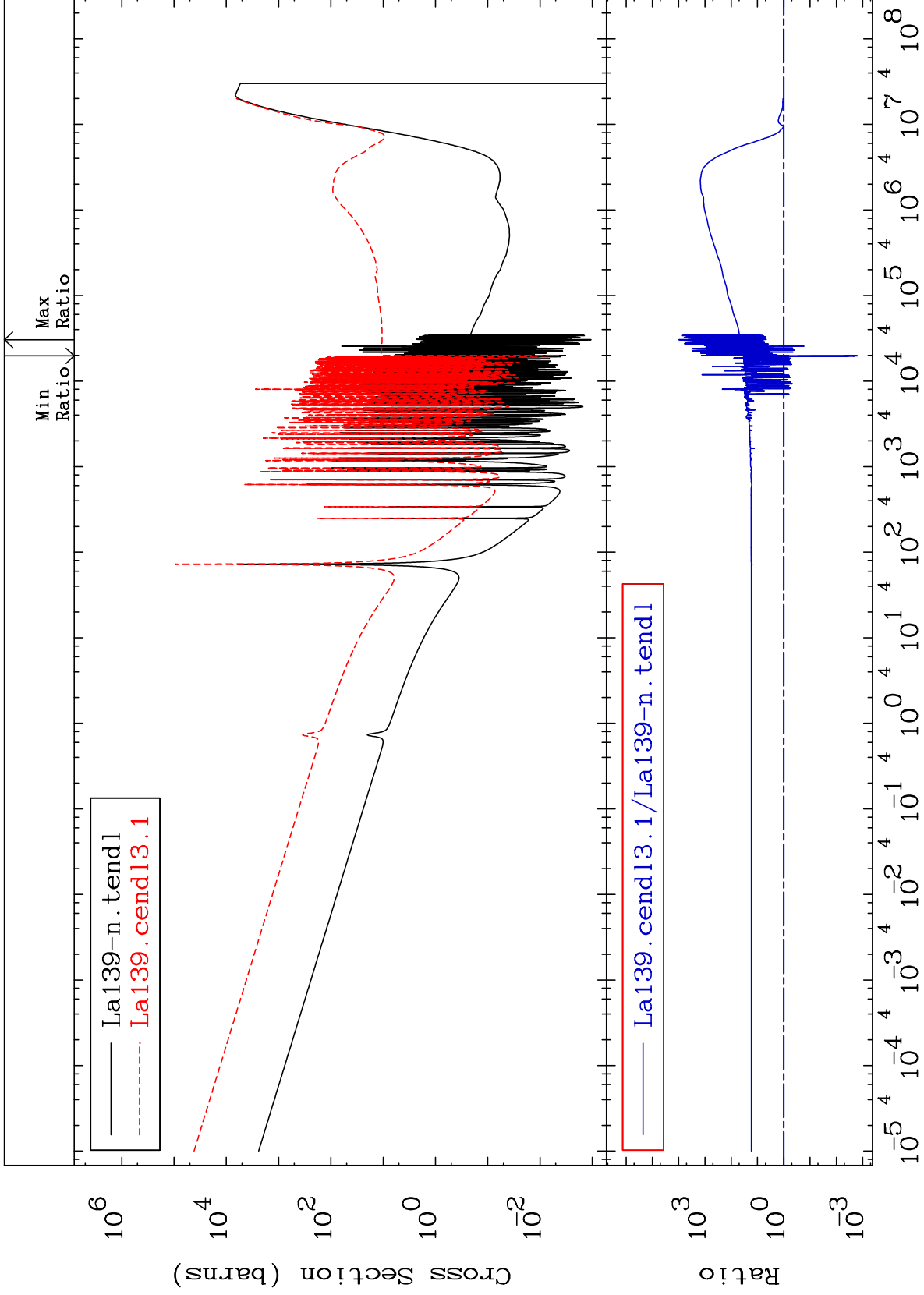
57-La-139  
-2.164 To 589.2 %



MAT 5728

Dpa disappearance (mt102 -120)  
Cross Section

57-La-139  
-99.84 To 9999. %



42

Incident Energy (eV)

57-La-139