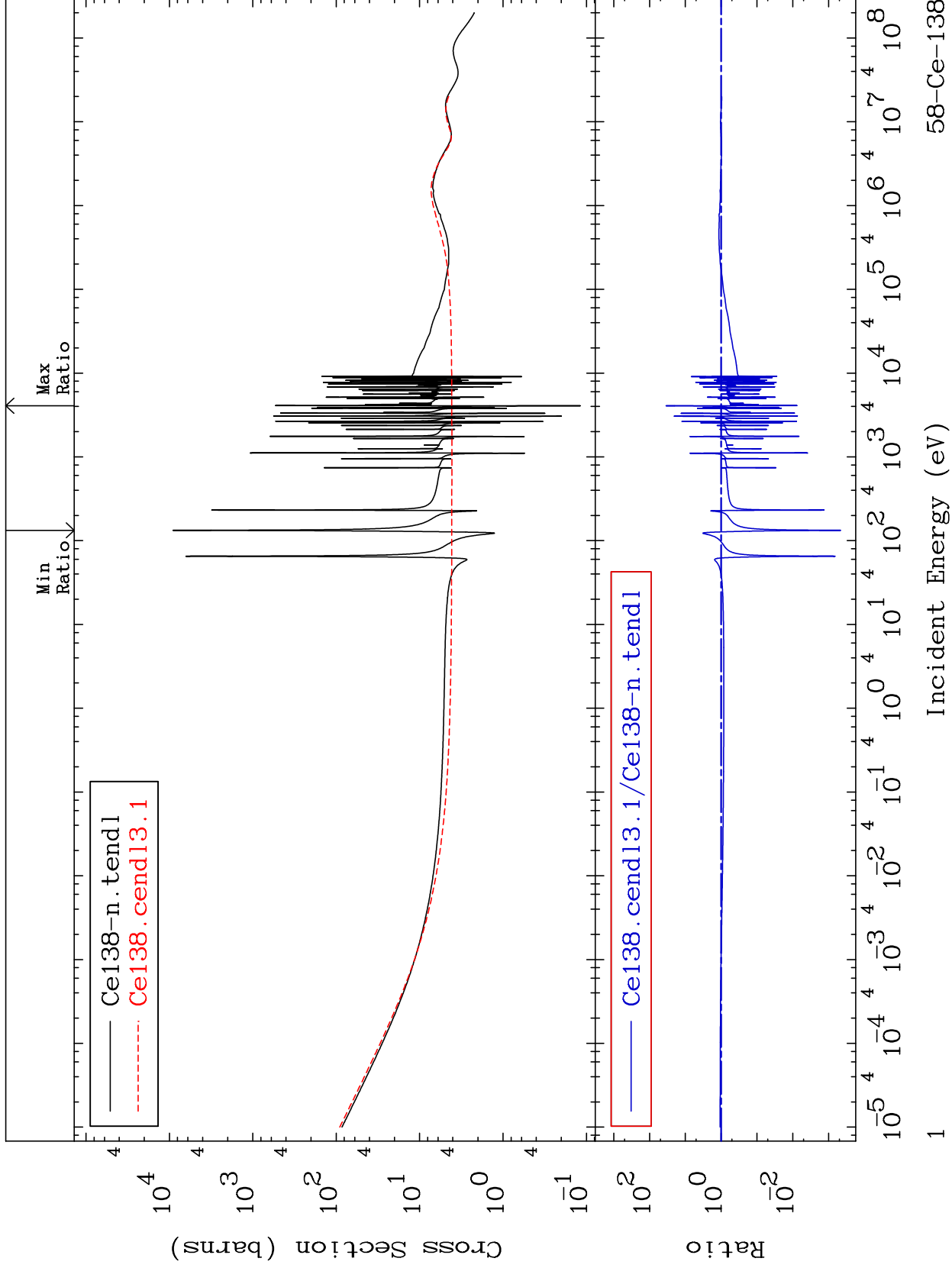


MAT 5831

Total  
Cross Section

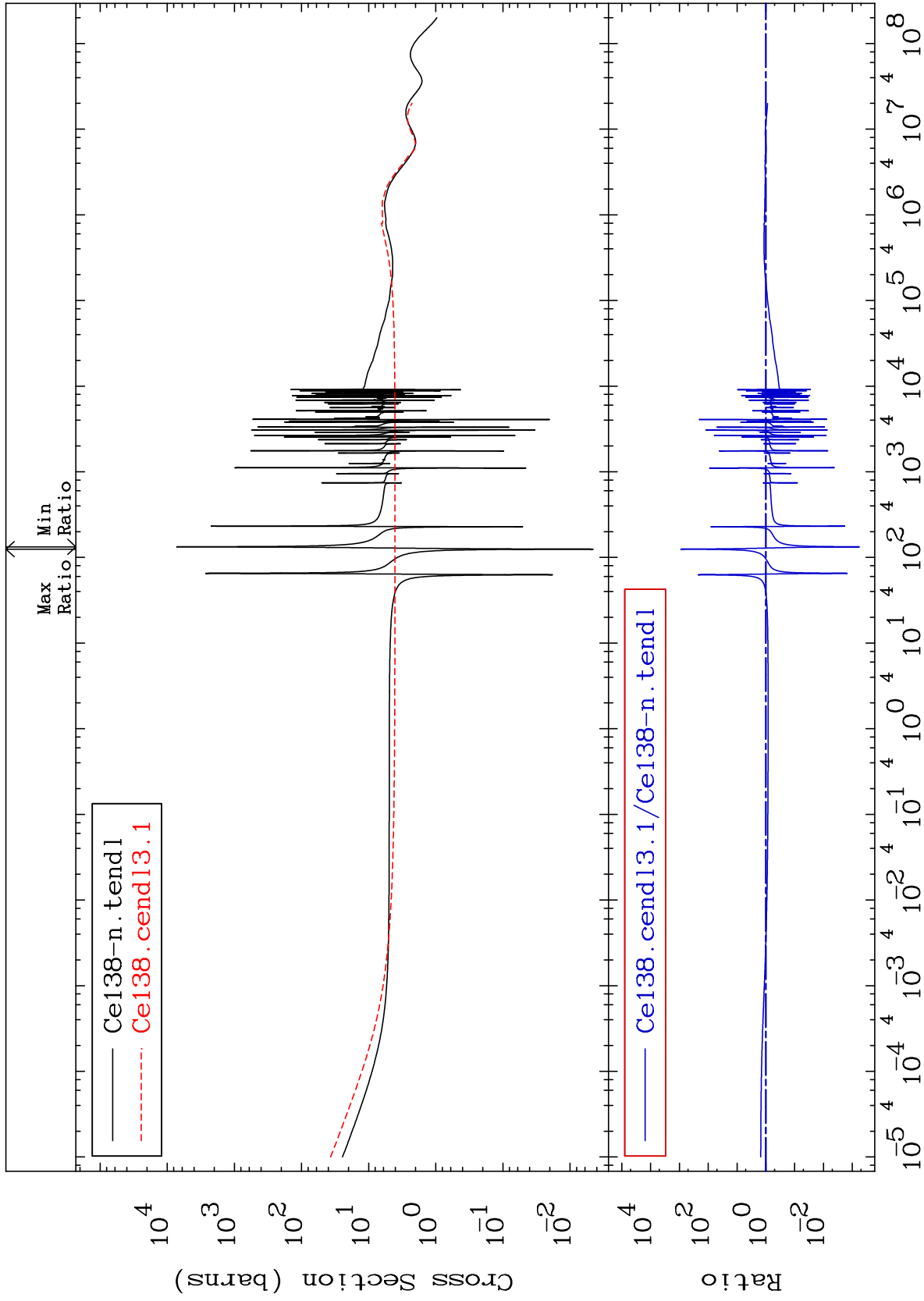
58-Ce-138  
-99.95 To 3379. %



MAT 5831

Elastic  
Cross Section

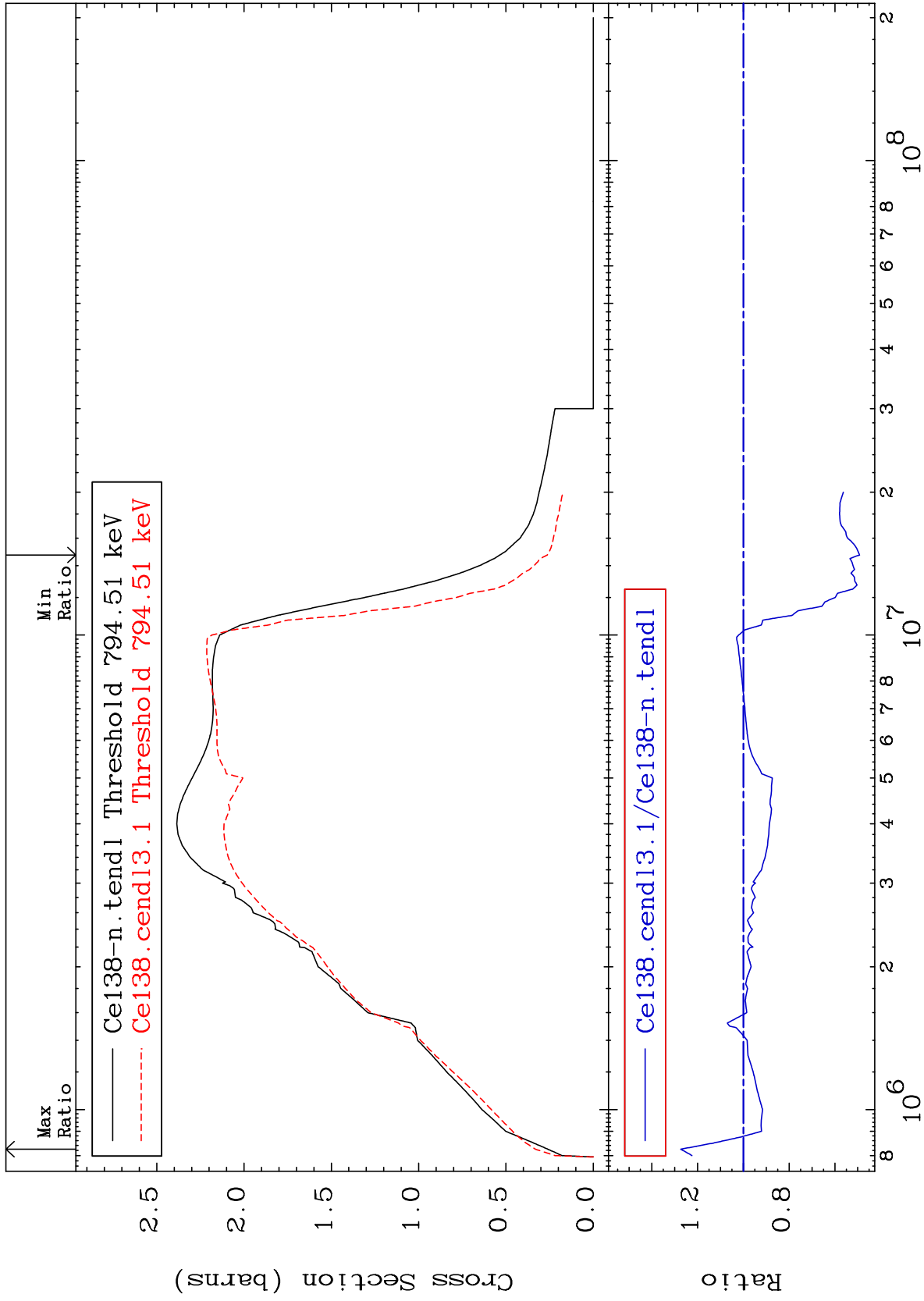
58-Ce-138  
-99.94 To 9999. %



MAT 5831

Inelastic  
Cross Section

58-Ce-138  
-50.78 To 27.37 %



3

Incident Energy (eV)

58-Ce-138

MAT 5831

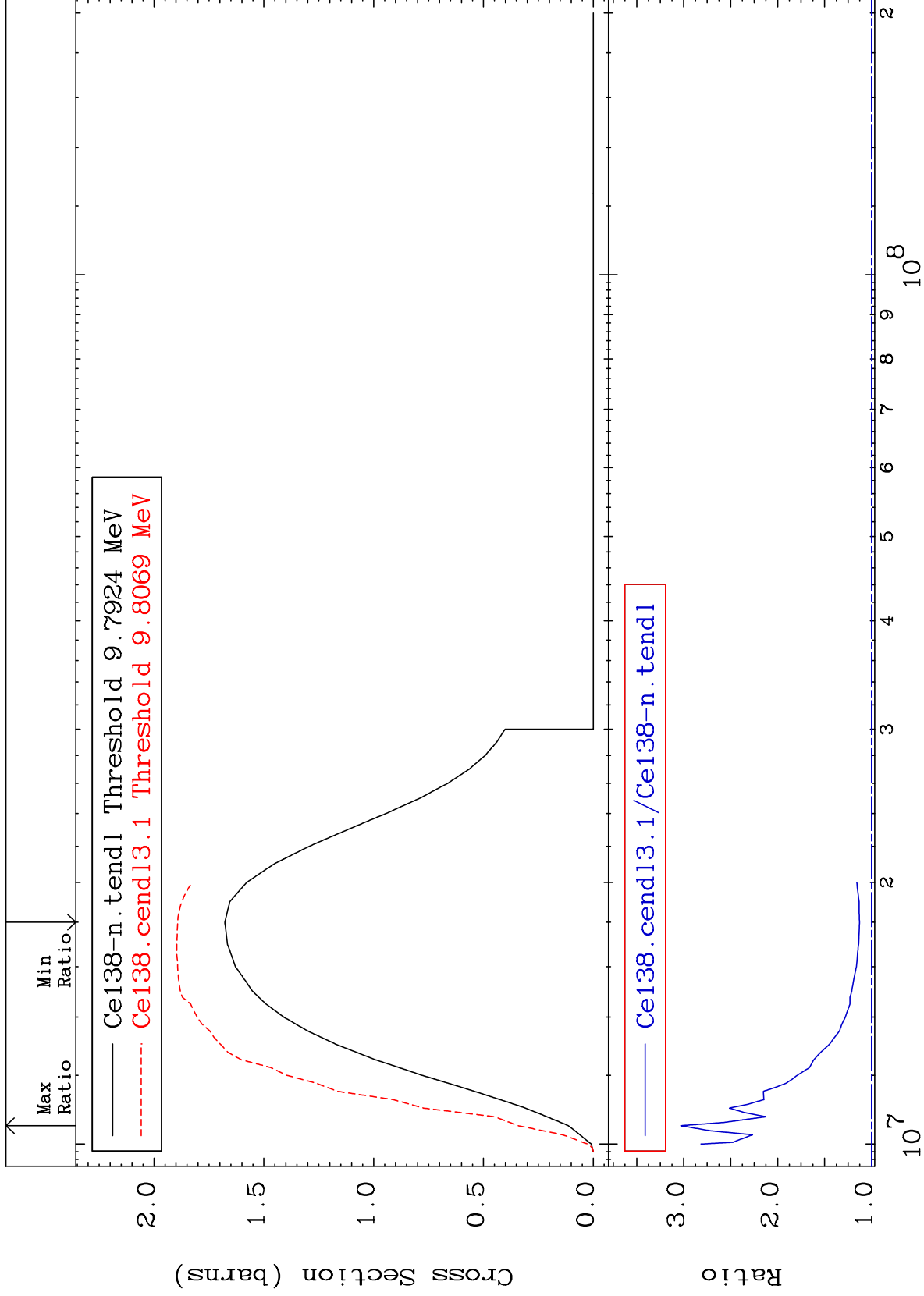
(n,2n)

58-Ce-138

Cross Section

12.81

To 203.1 %

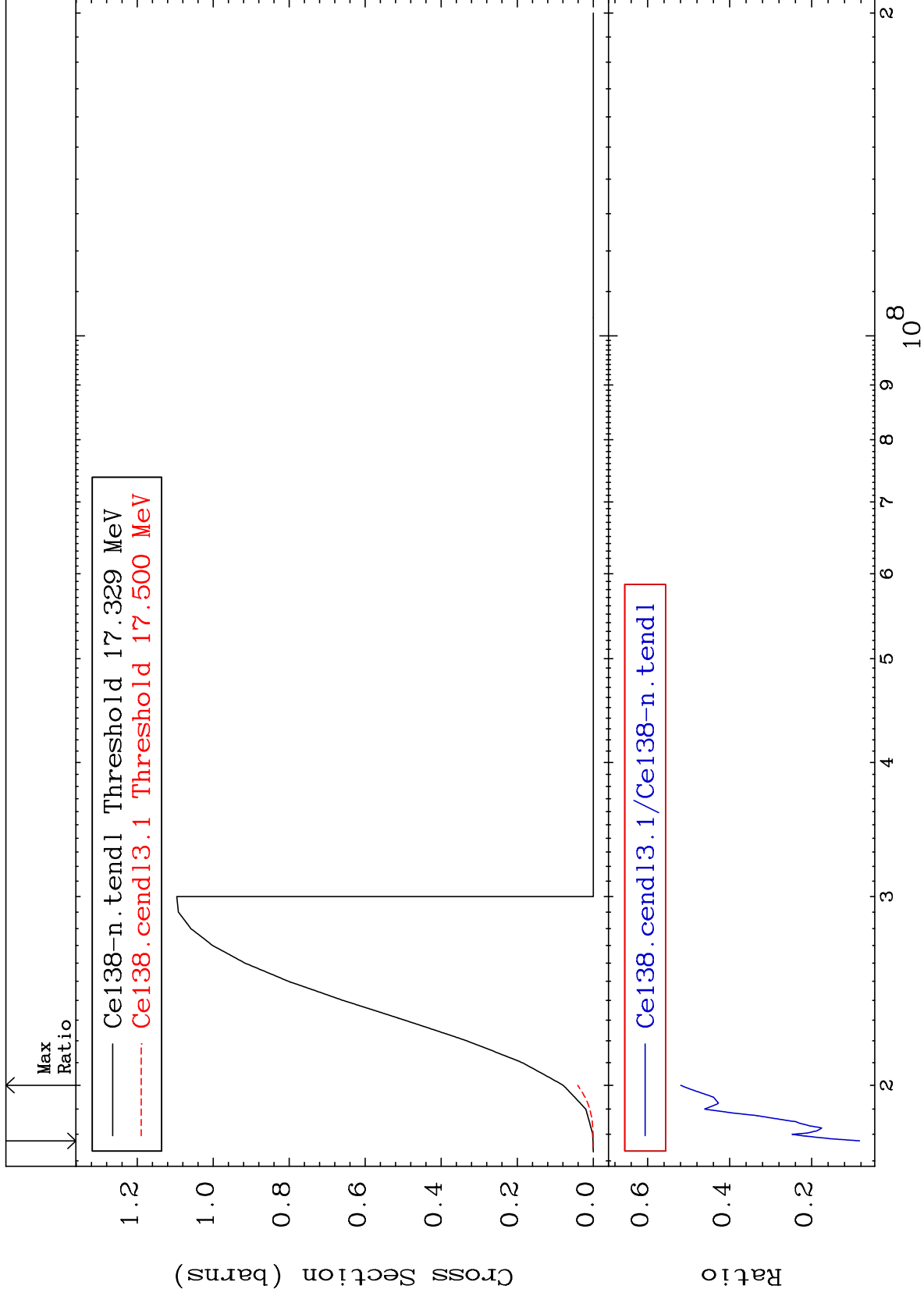


58-Ce-138

MAT 5831

(n,3n)  
Cross Section

58-Ce-138  
-91.65 To -48.06%



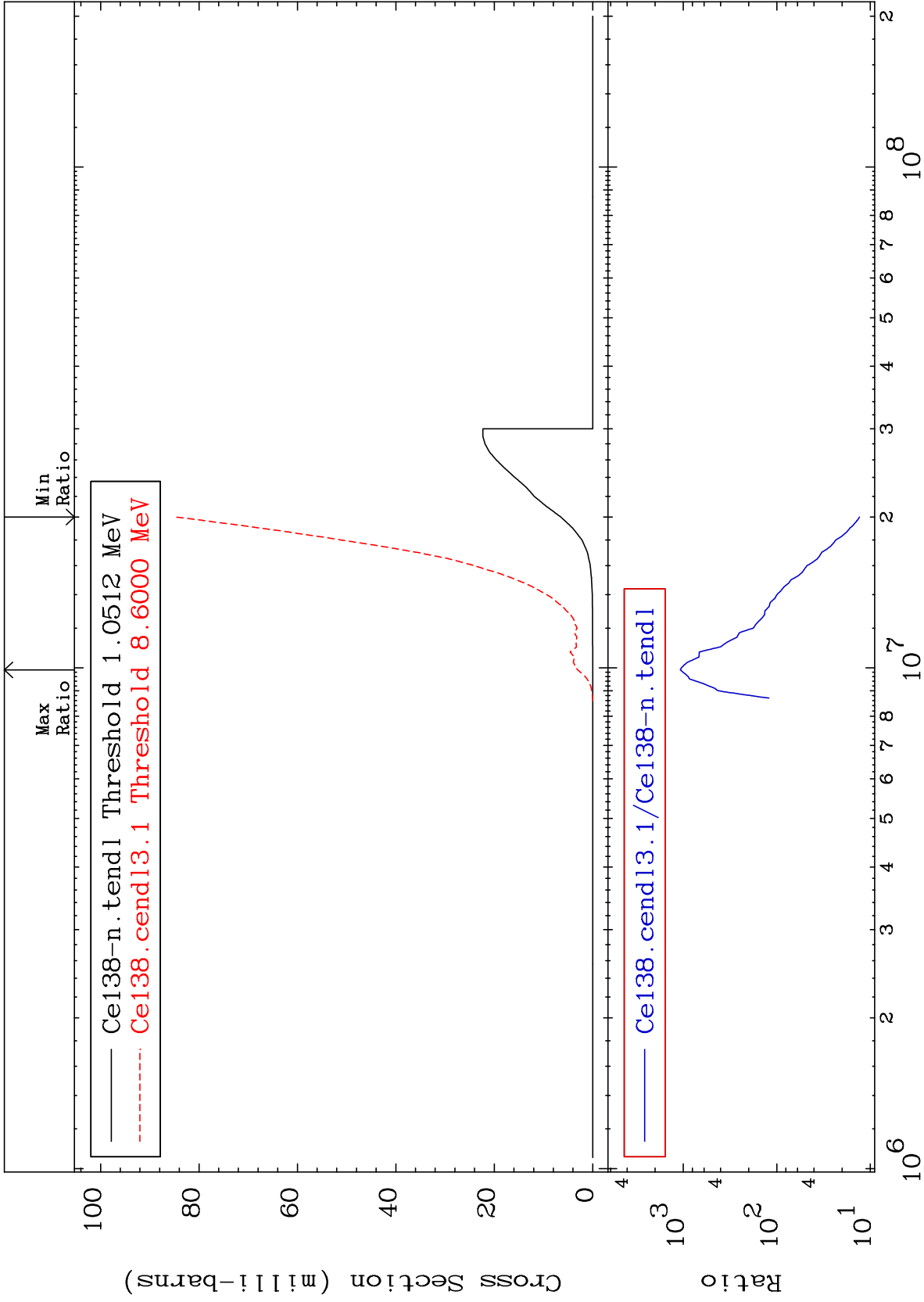
MAT 5831

(n, n')  $\alpha$

58-Ce-138

1208. To 9999. %

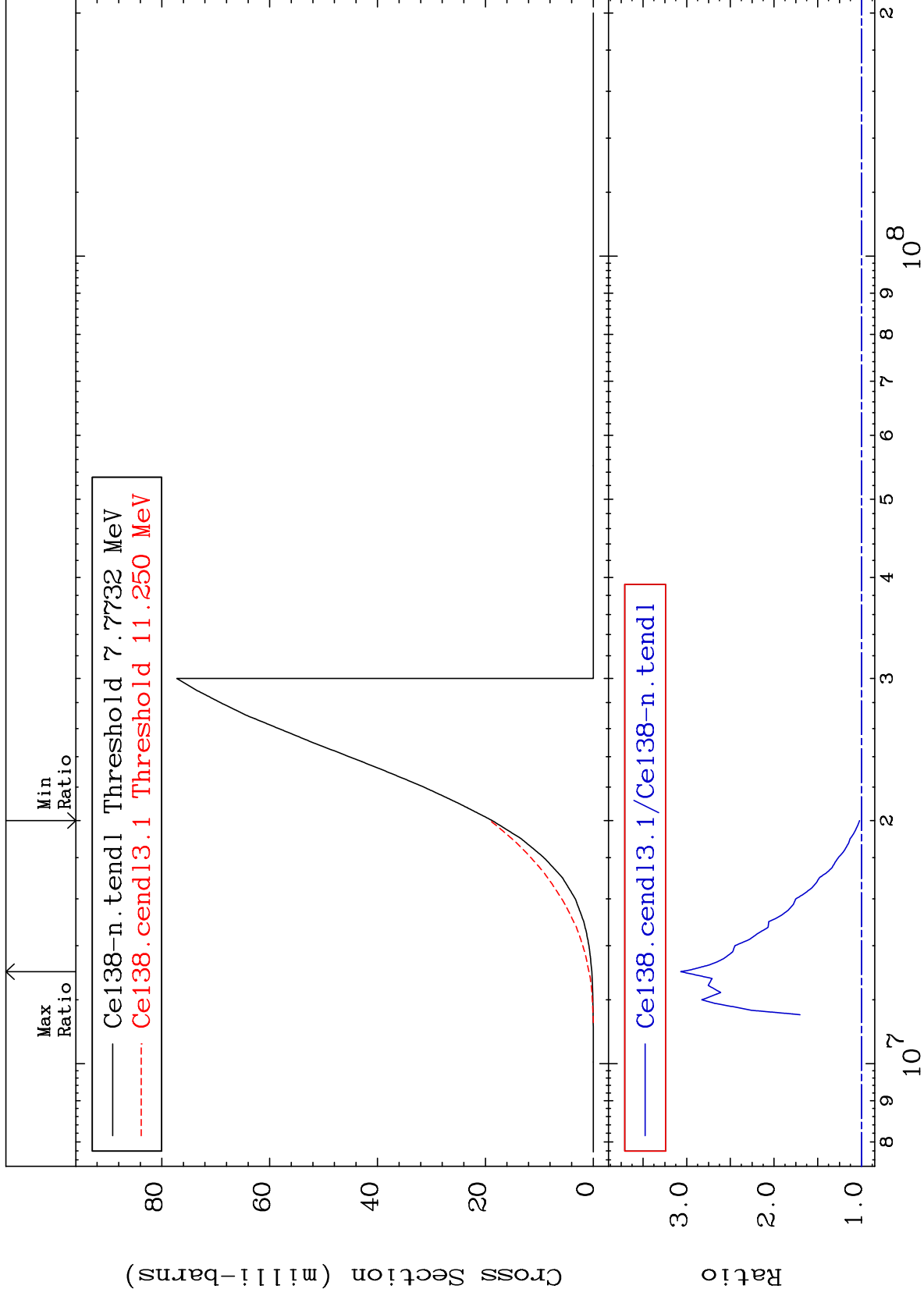
Cross Section



MAT 5831

(n,n') p  
Cross Section

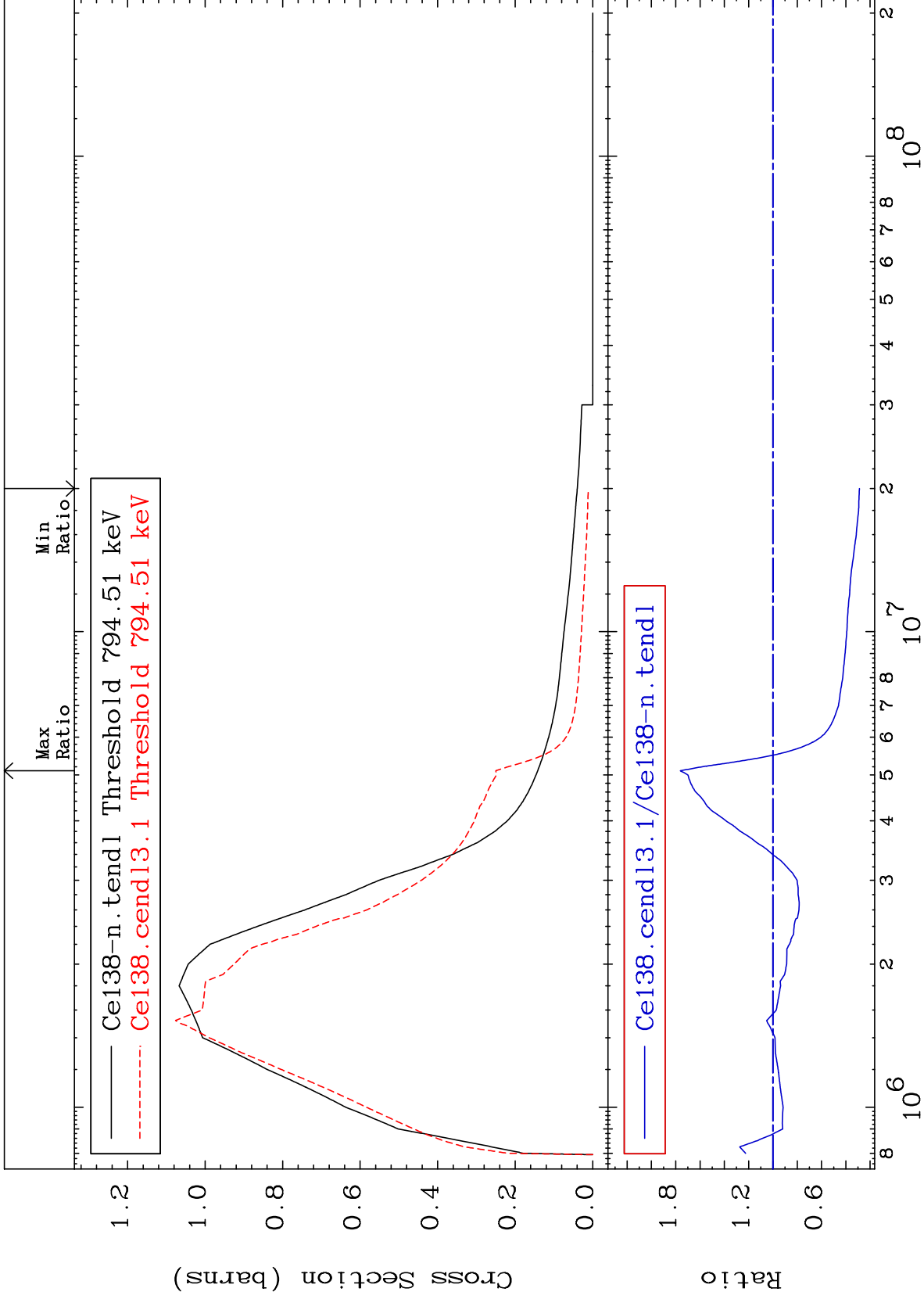
58-Ce-138  
2.038 To 206.8 %



MAT 5831

788.7 keV (n,n') Level  
Cross Section

58-Ce-138  
-71.18 To 76.19 %



8

Incident Energy (eV)

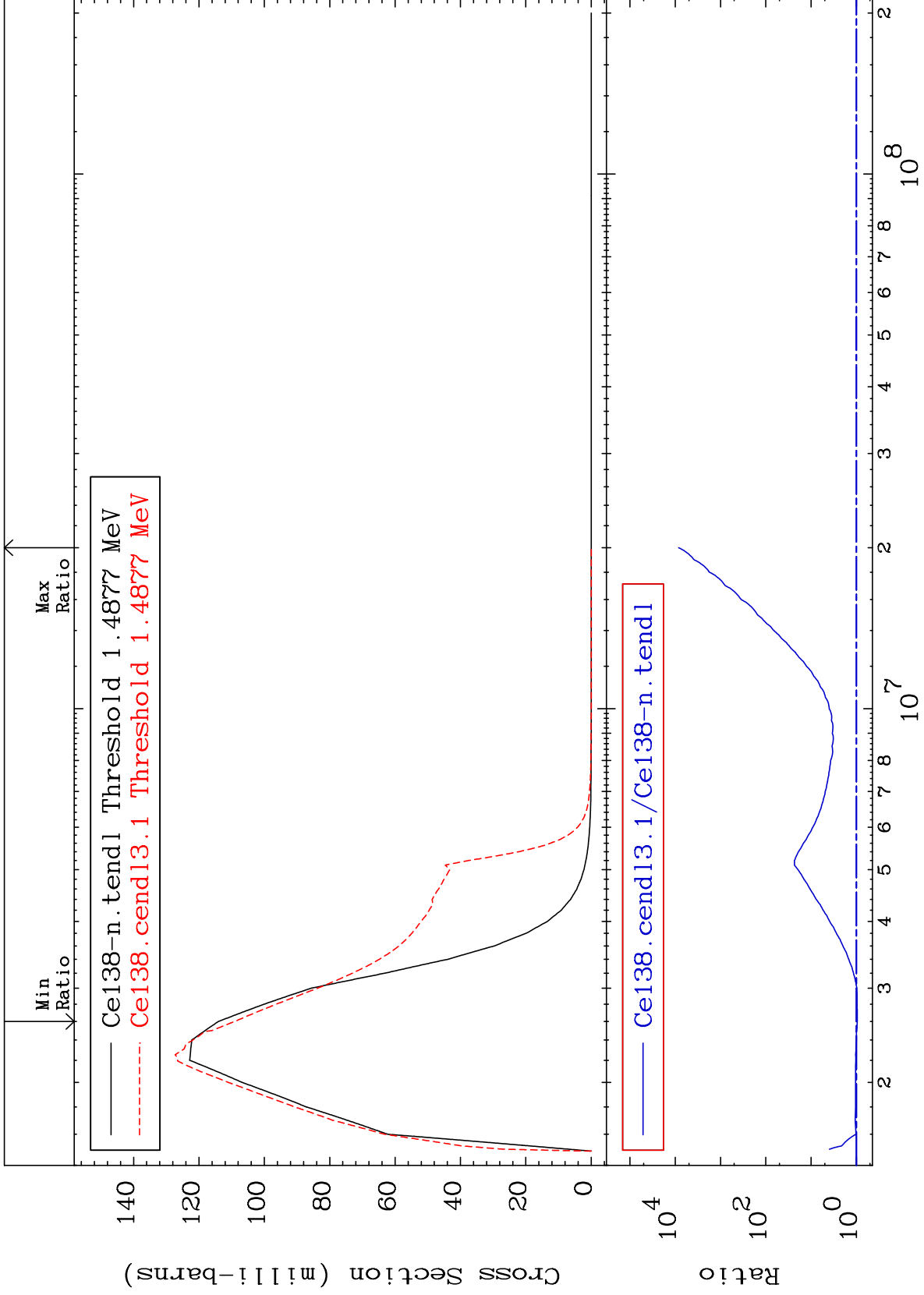
58-Ce-138



MAT 5831

1.477 MeV (n,n') Level  
Cross Section

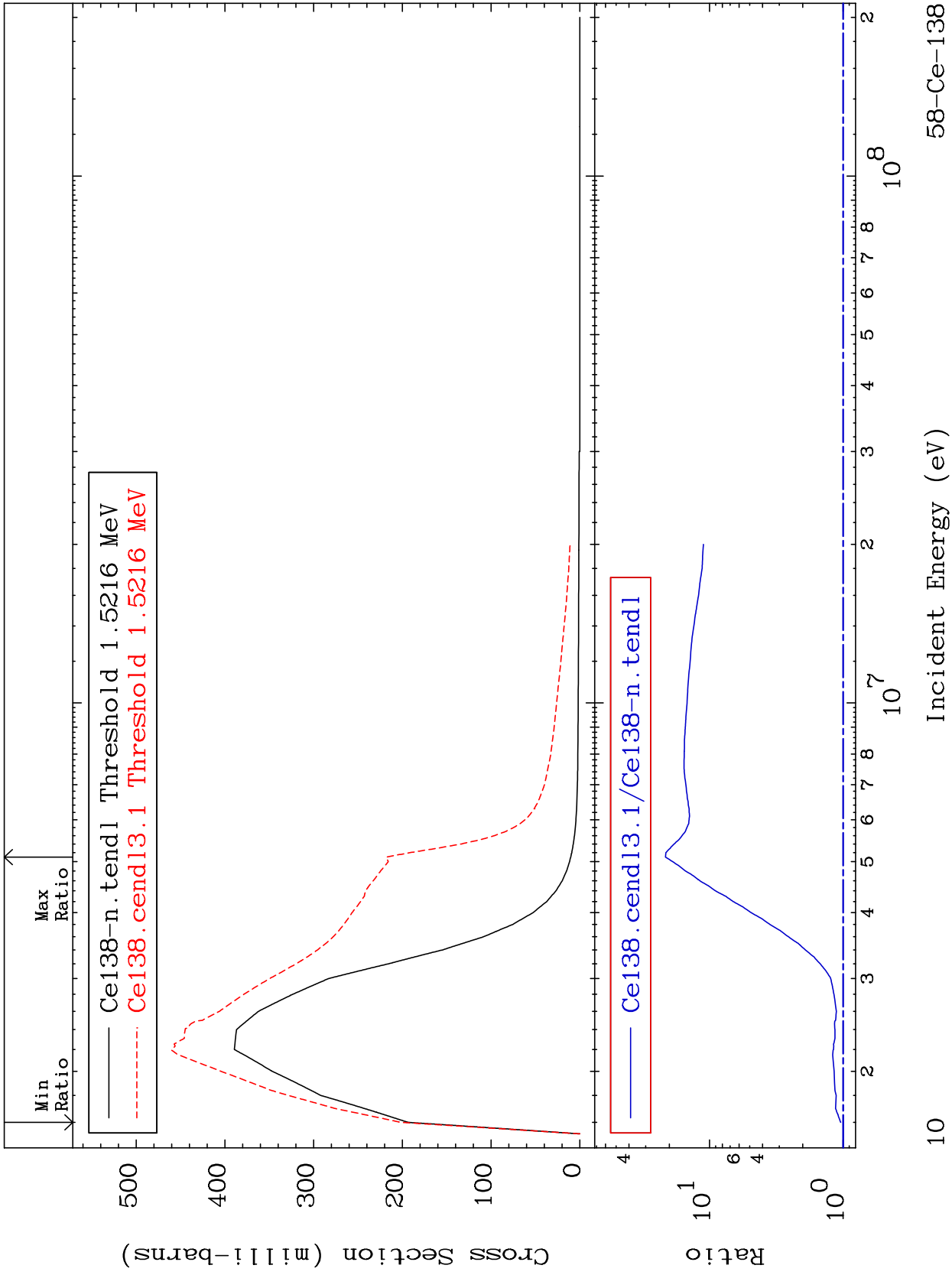
58-Ce-138  
-4.366 To 9999. %



MAT 5831

1.511 MeV (n,n') Level  
Cross Section

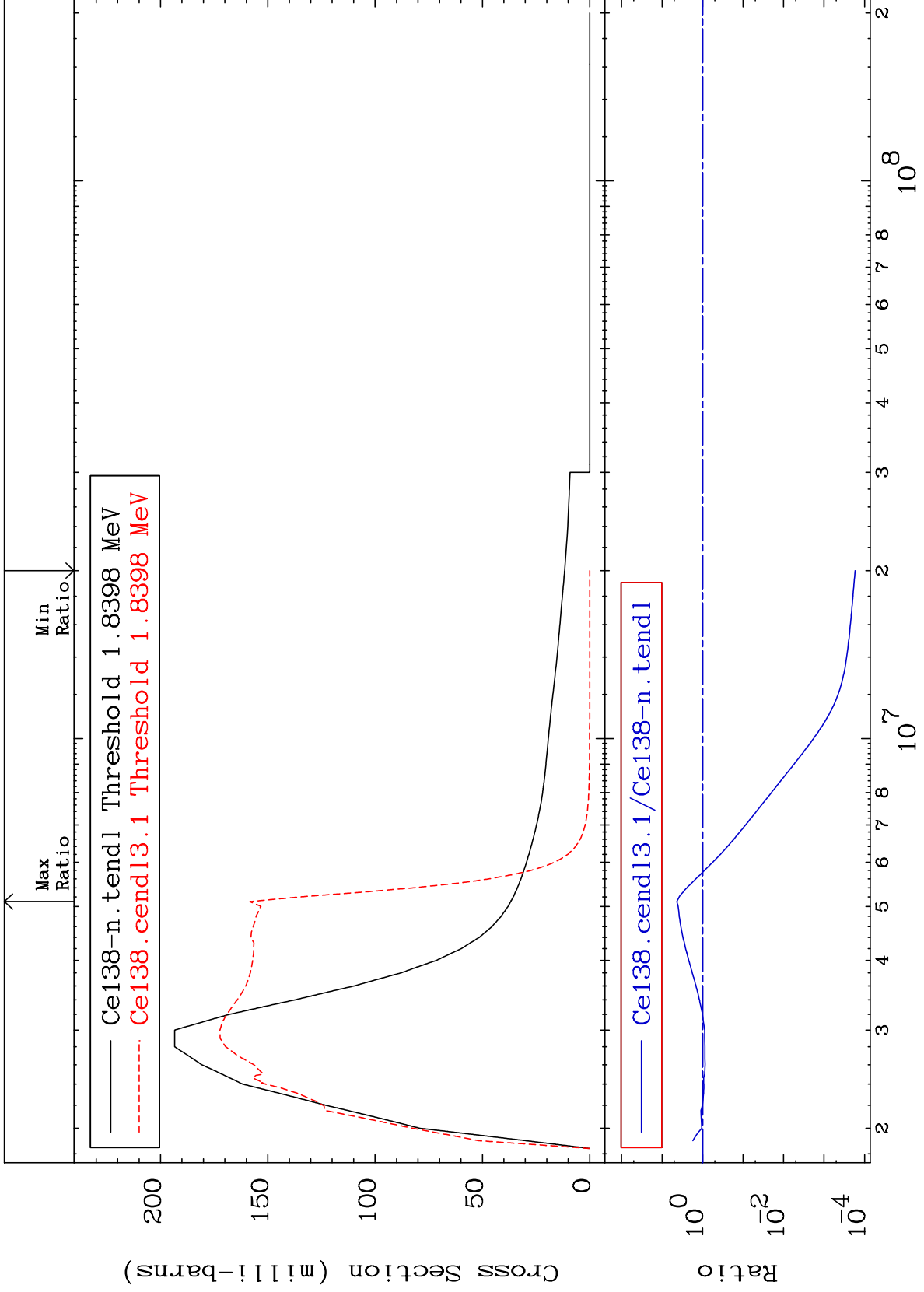
58-Ce-138  
4.163 To 2033. %



MAT 5831

1.826 MeV (n,n') Level  
Cross Section

58-Ce-138  
-99.98 To 329.9 %



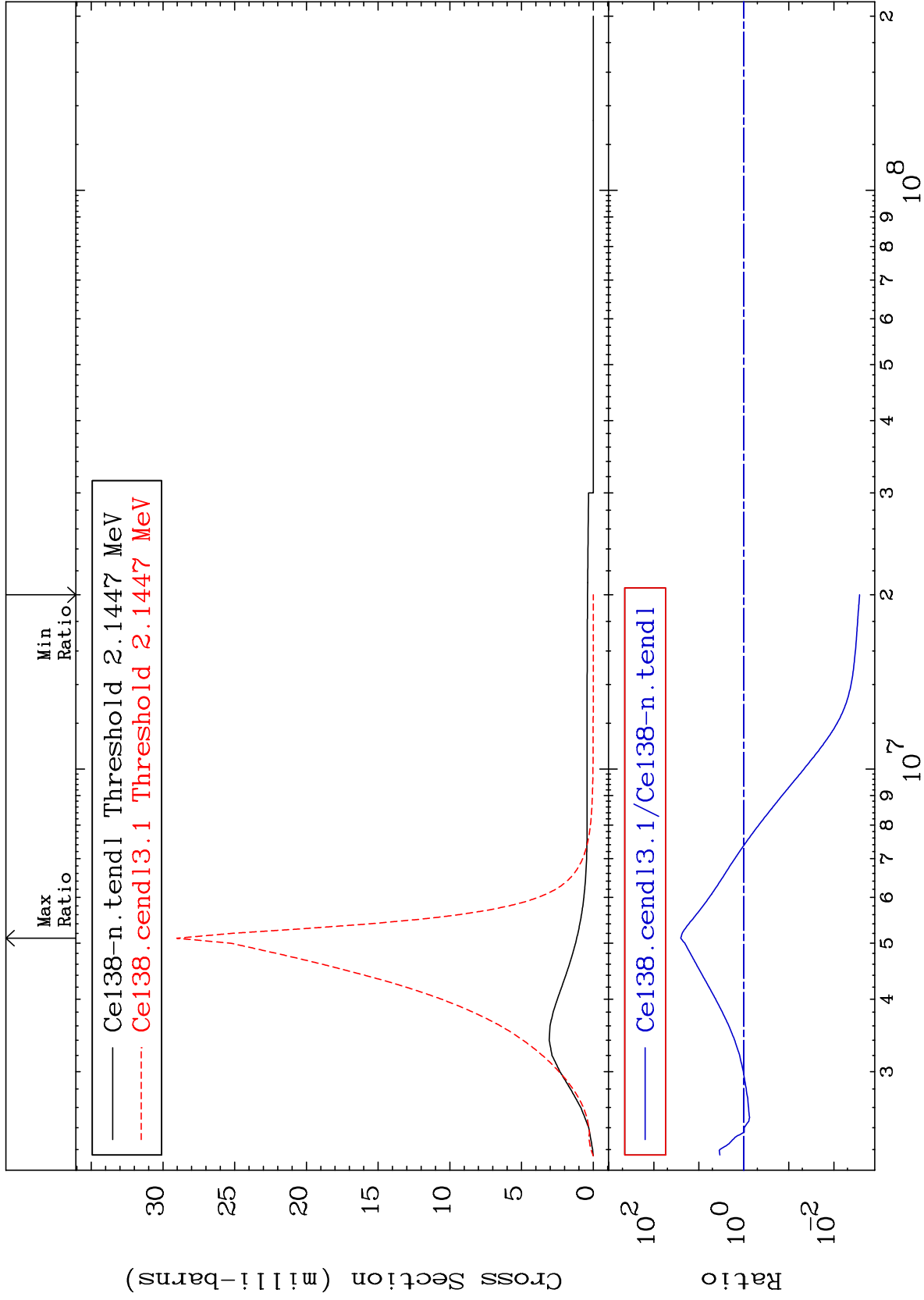
MAT 5831

2.129 MeV (n,n') Level

58-Ce-138

-99.73 To 2417. %

Cross Section



12

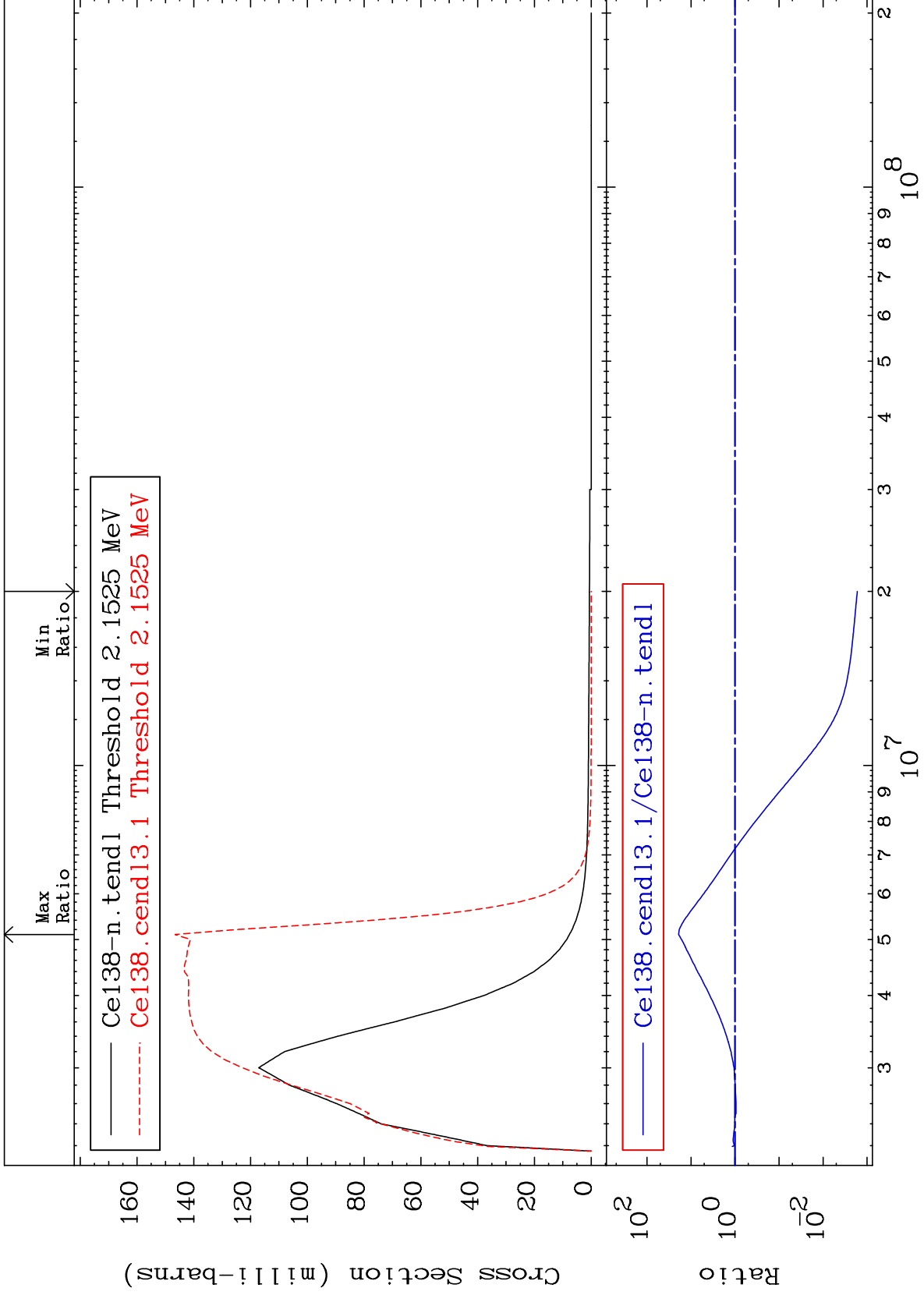
Incident Energy (eV)

58-Ce-138

MAT 5831

2.137 MeV (n,n') Level  
Cross Section

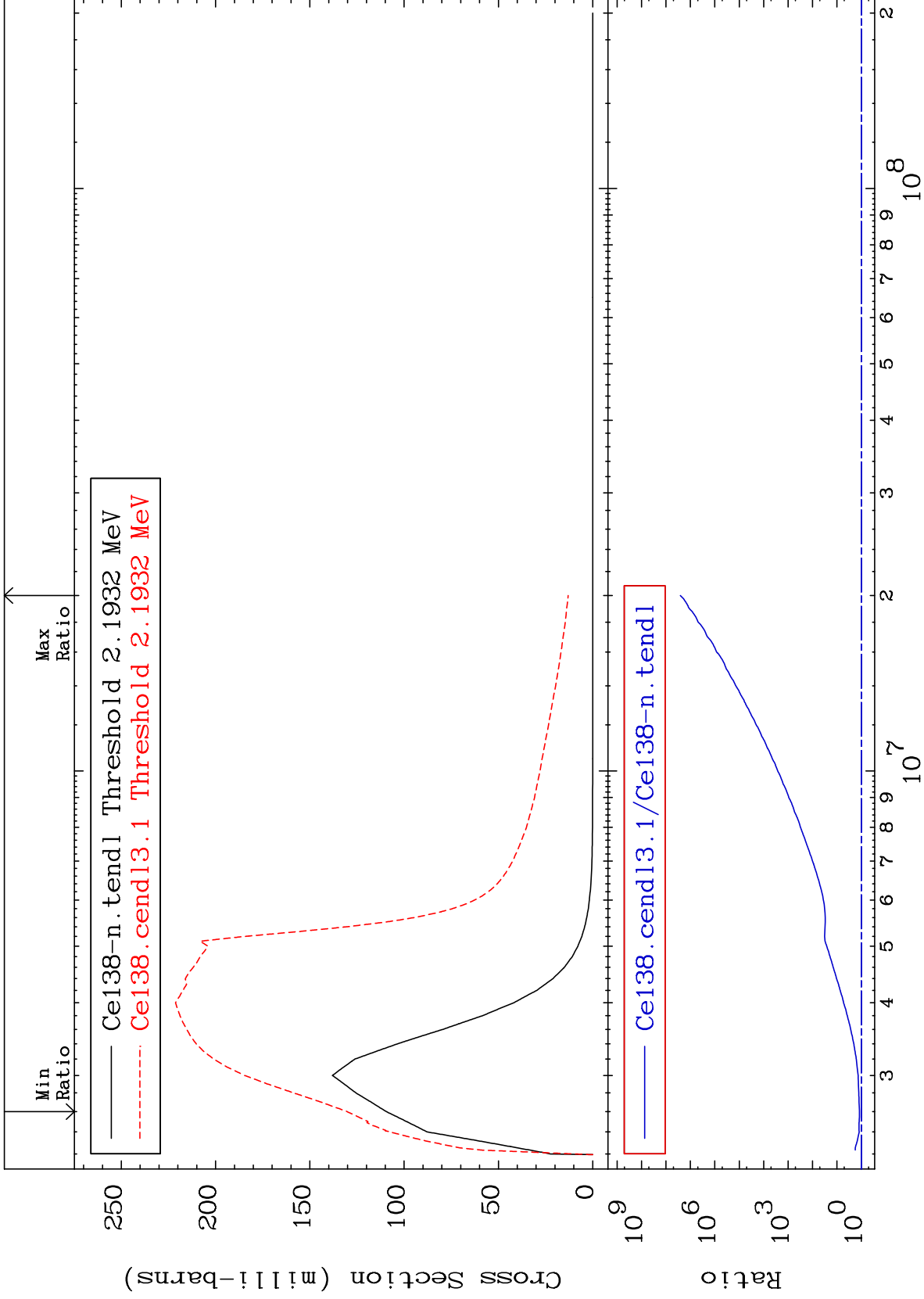
58-Ce-138  
-99.83 To 1810. %



MAT 5831

2.177 MeV (n,n') Level  
Cross Section

58-Ce-138  
18.95 To 9999. %



14

Incident Energy (eV)

58-Ce-138

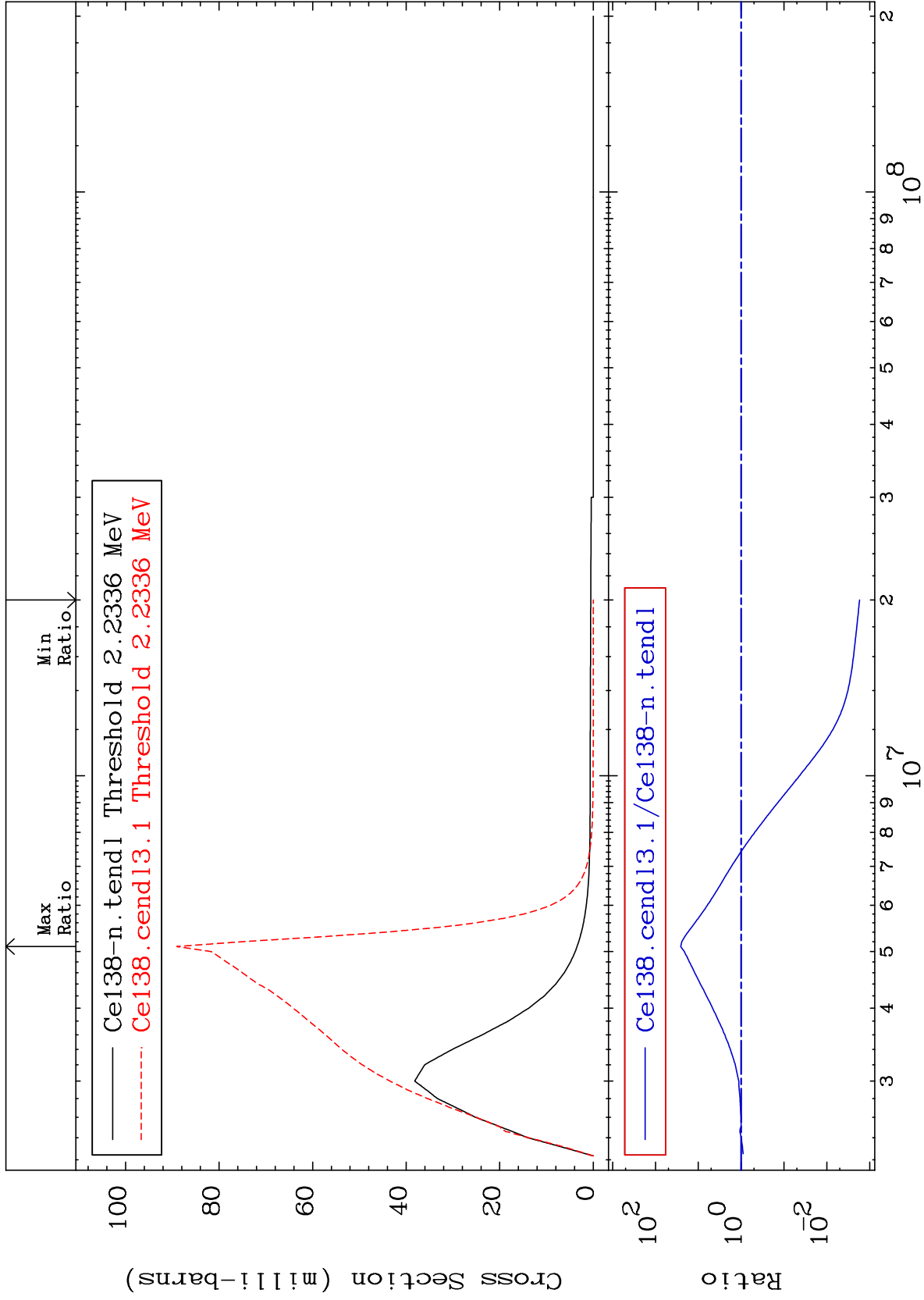
MAT 5831

2.217 MeV (n,n') Level

58-Ce-138

-99.83 To 2464. %

Cross Section



15

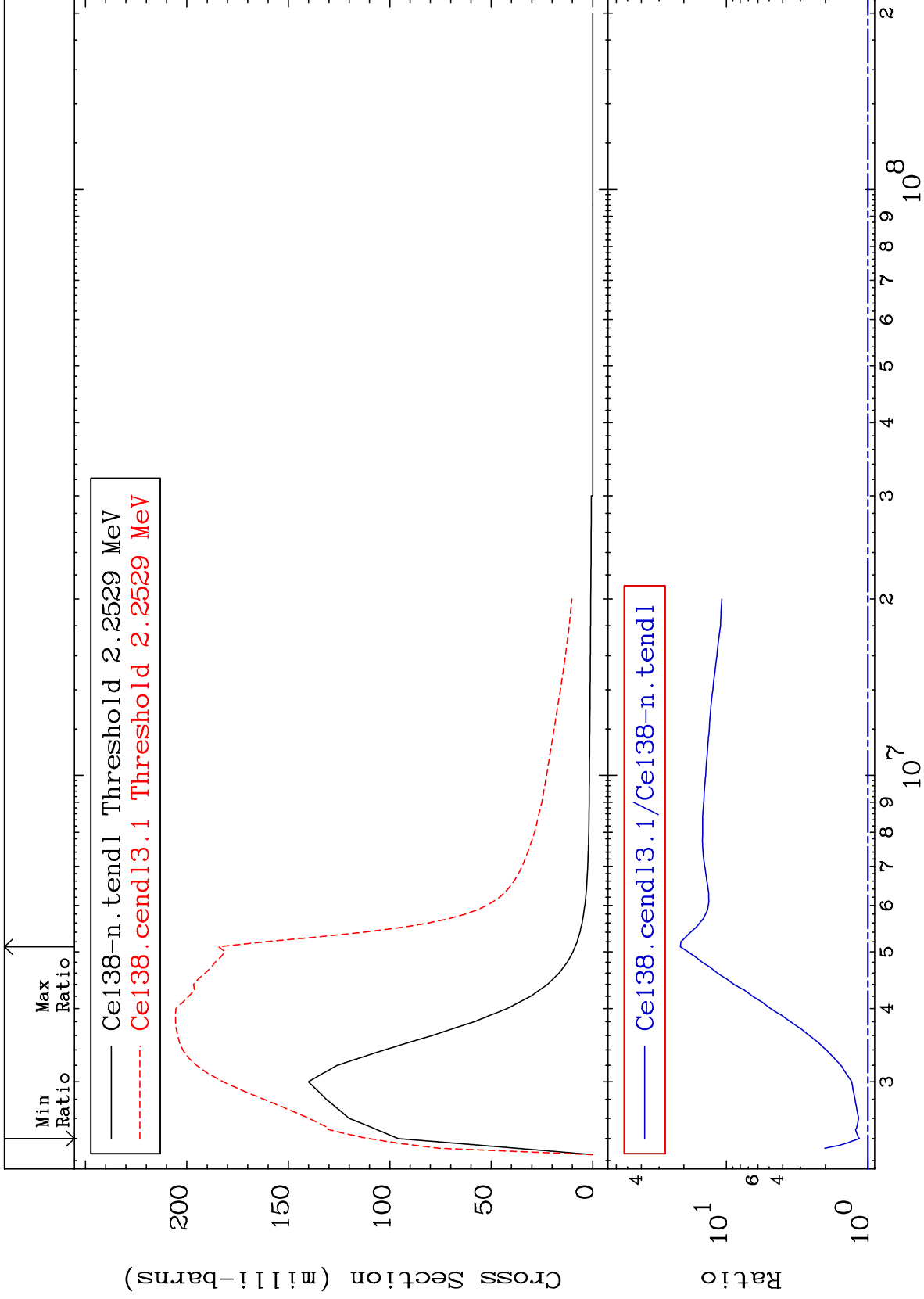
Incident Energy (eV)

58-Ce-138

MAT 5831

2.237 MeV (n,n') Level  
Cross Section

58-Ce-138  
14.83 To 2017. %



16

Incident Energy (eV)

58-Ce-138



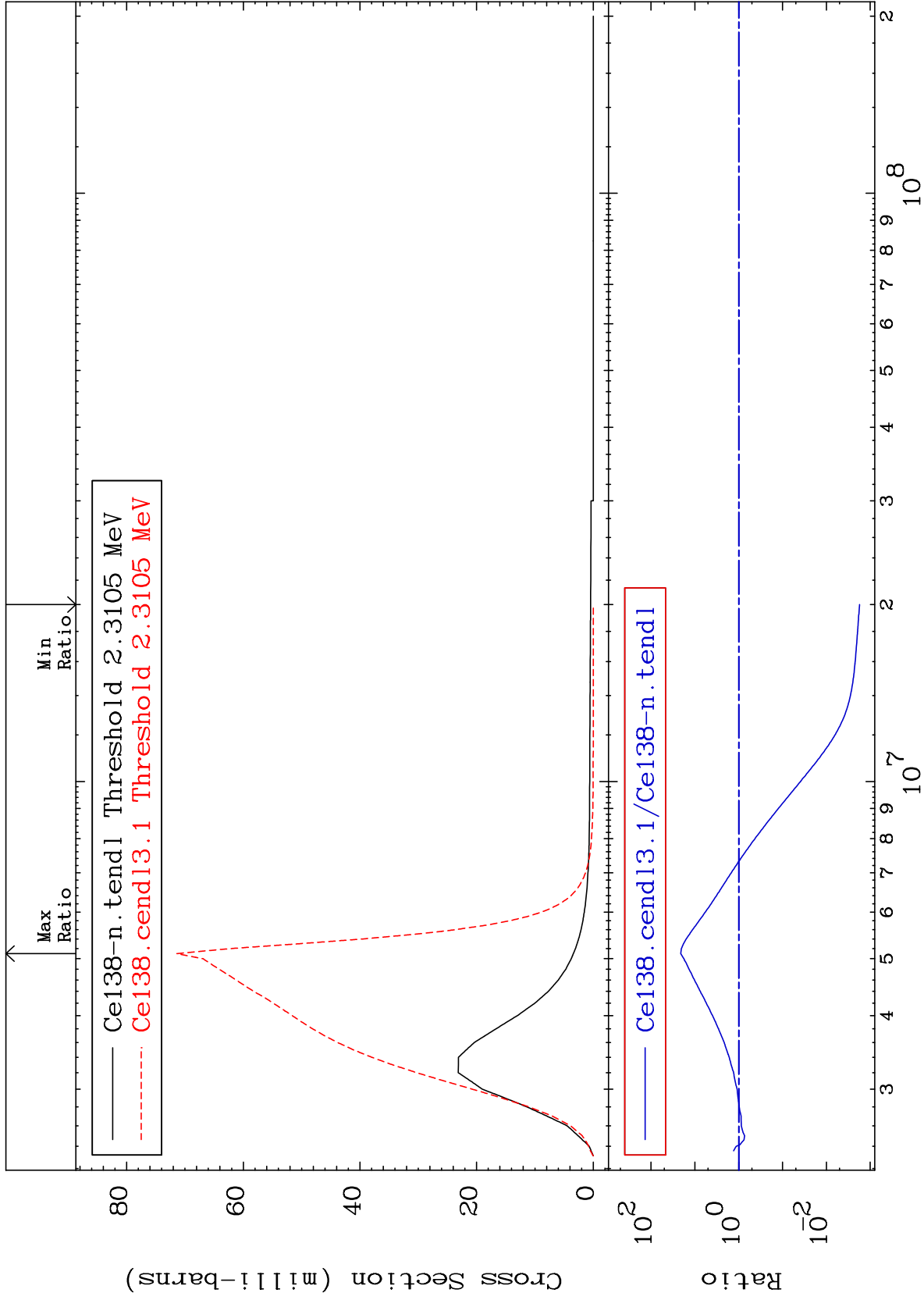
MAT 5831

2.294 MeV (n,n') Level

58-Ce-138

-99.82 To 1998. %

Cross Section



17

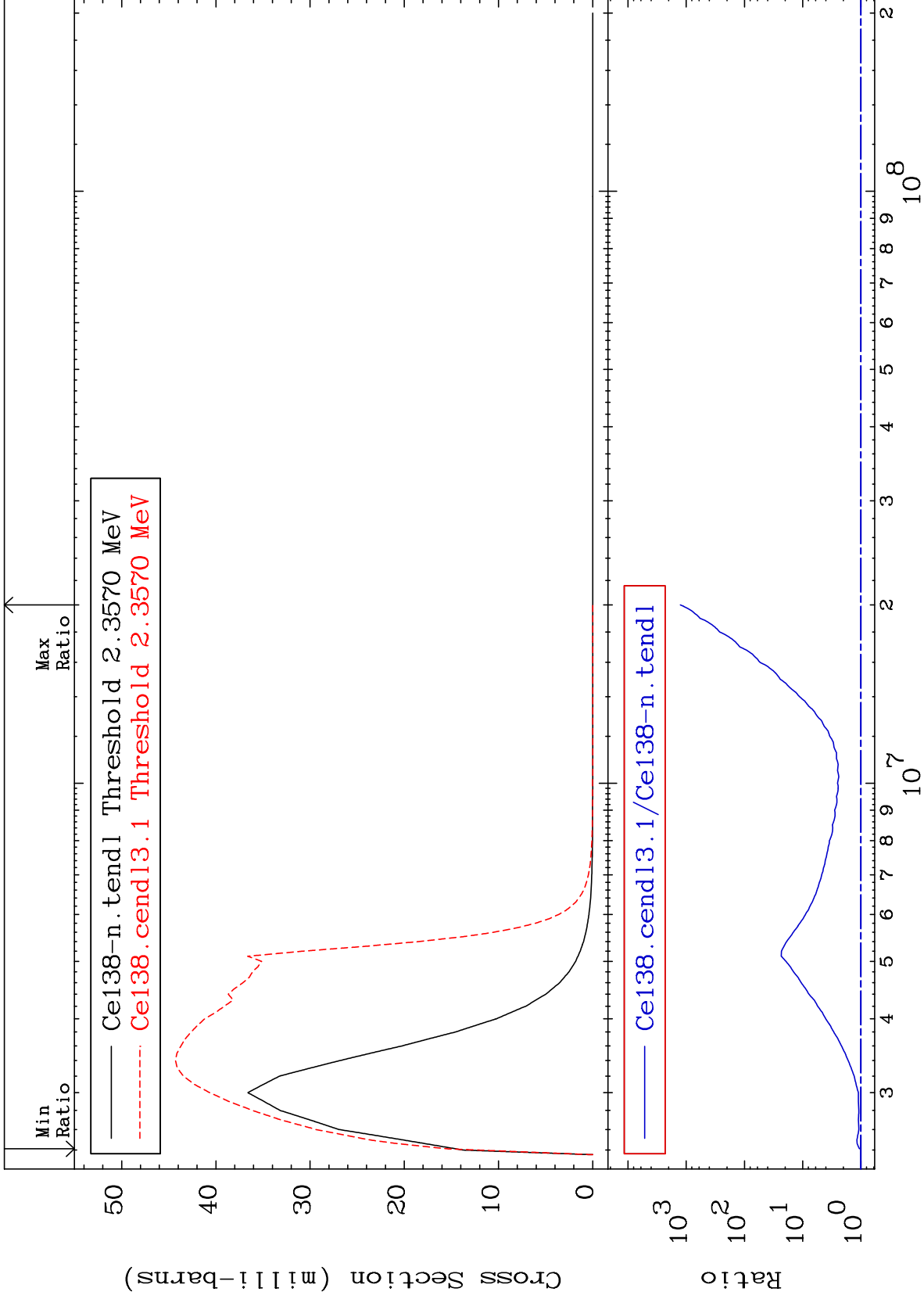
Incident Energy (eV)

58-Ce-138

MAT 5831

2.340 MeV (n,n') Level  
Cross Section

58-Ce-138  
6.171 To 9999. %



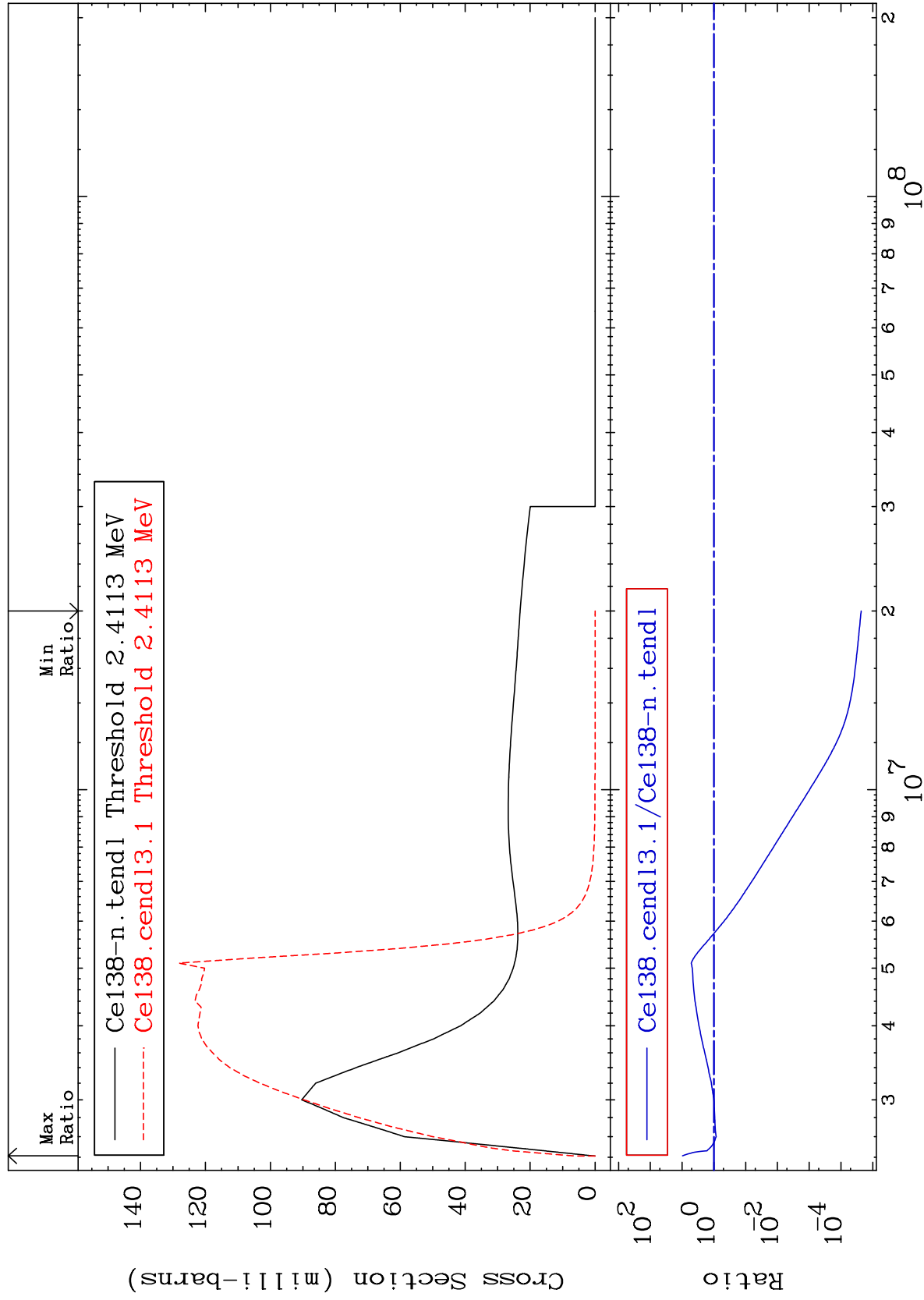
MAT 5831

2.394 MeV (n,n') Level

58-Ce-138

-100.0 To 868.3 %

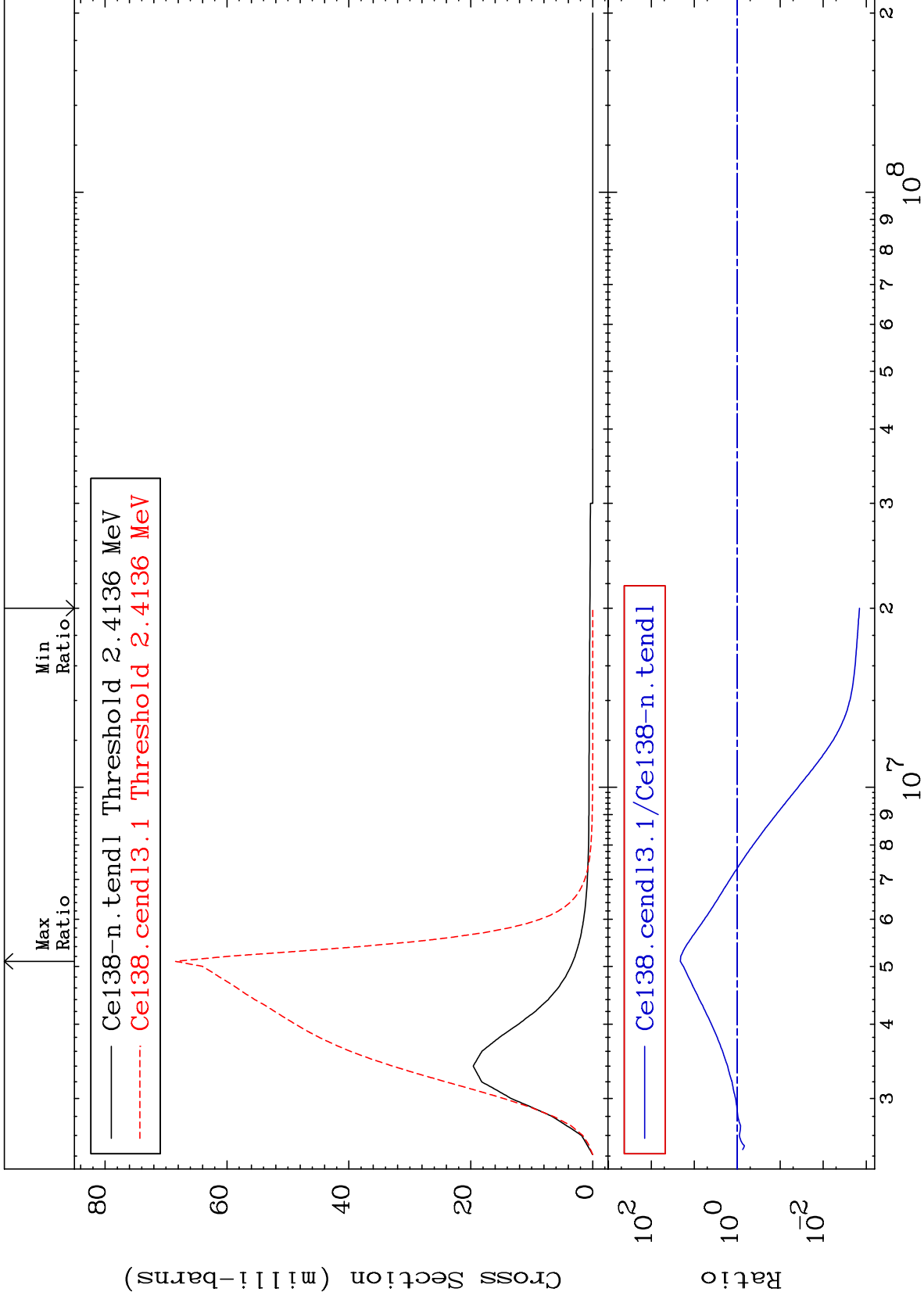
Cross Section



MAT 5831

2.396 MeV (n,n') Level  
Cross Section

58-Ce-138  
-99.86 To 2006. %



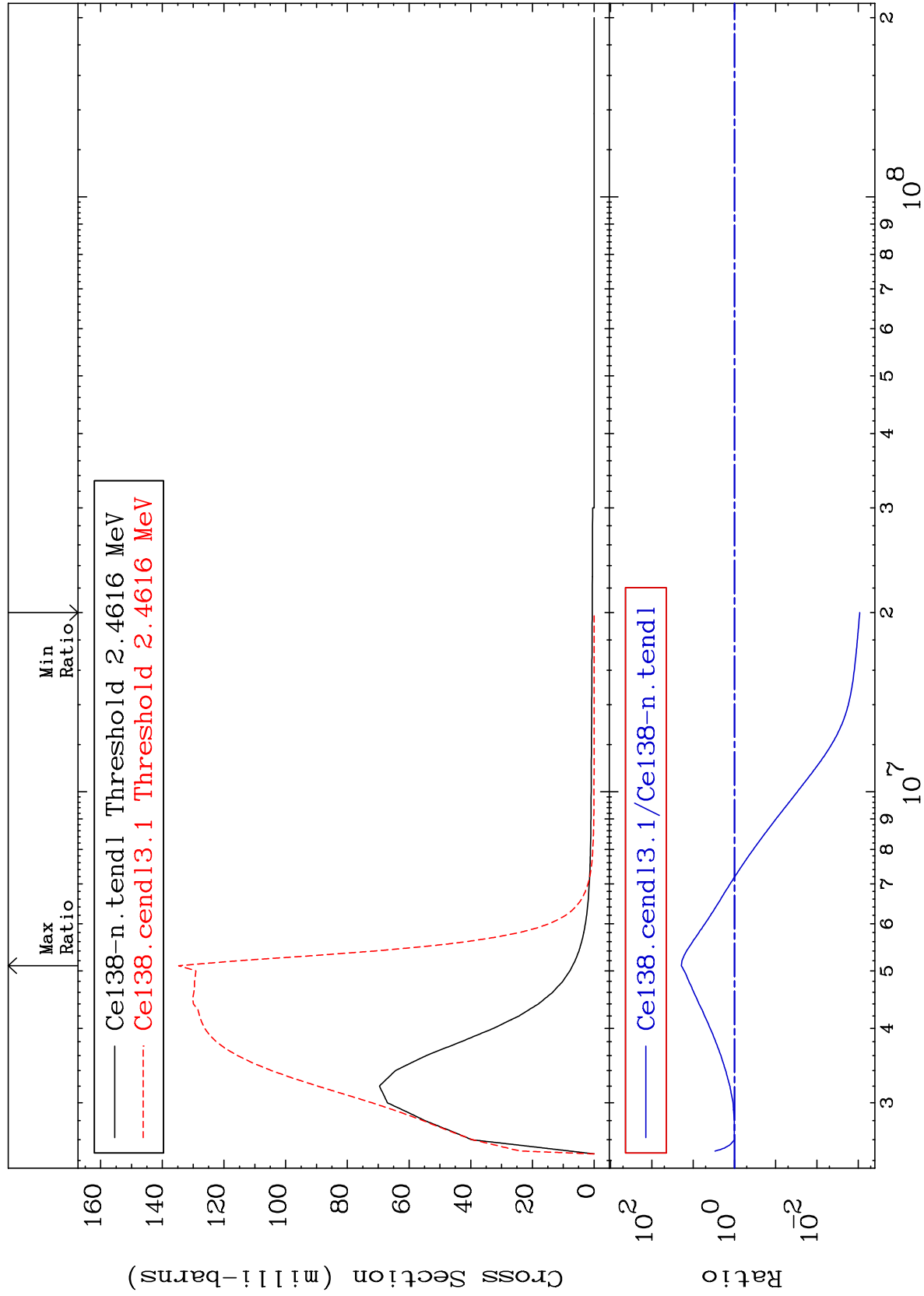
MAT 5831

2.444 MeV (n,n') Level

58-Ce-138

-99.91 To 1827. %

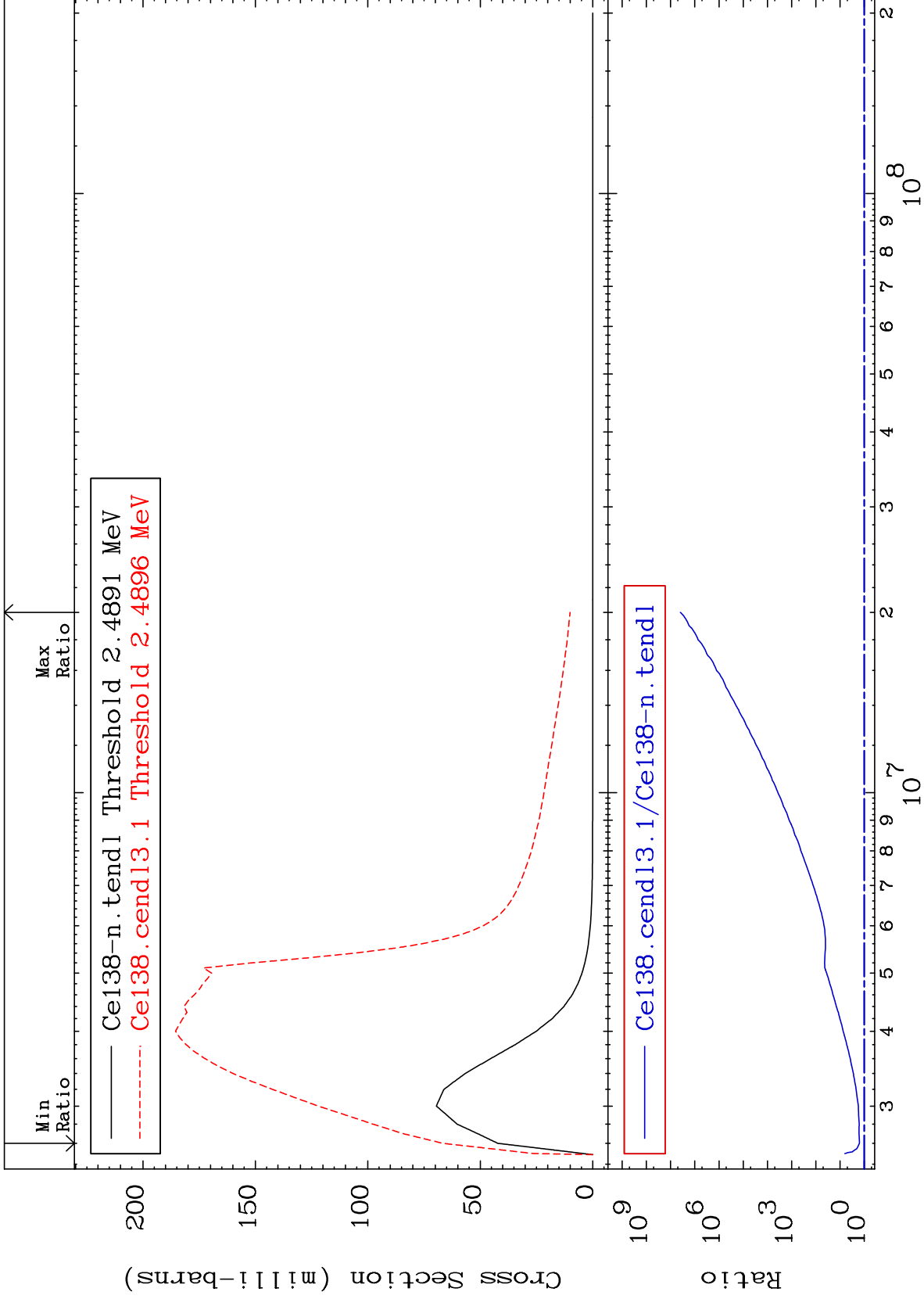
Cross Section



MAT 5831

2.471 MeV (n,n') Level  
Cross Section

57.85 To 9999. %  
58-Ce-138



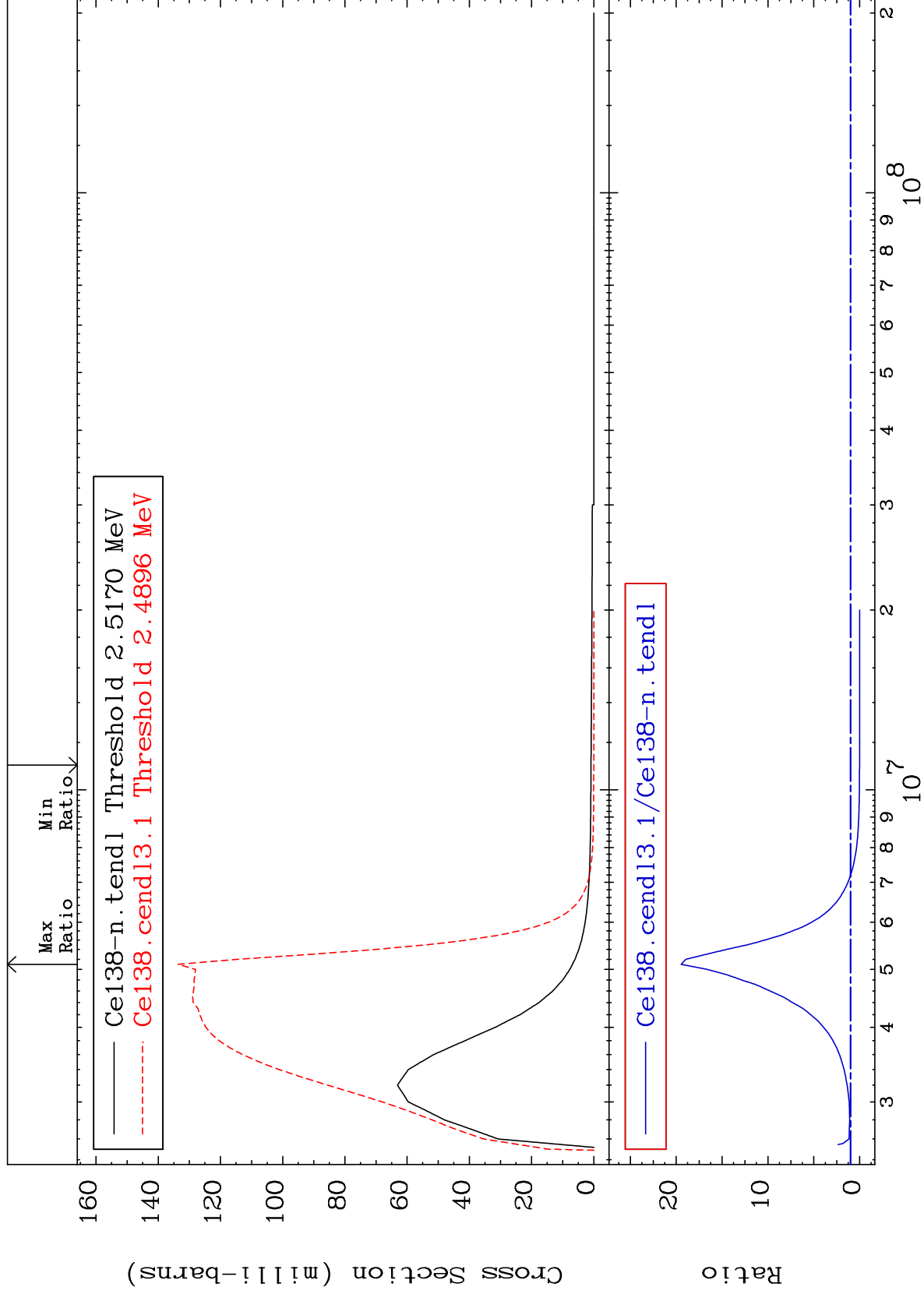
MAT 5831

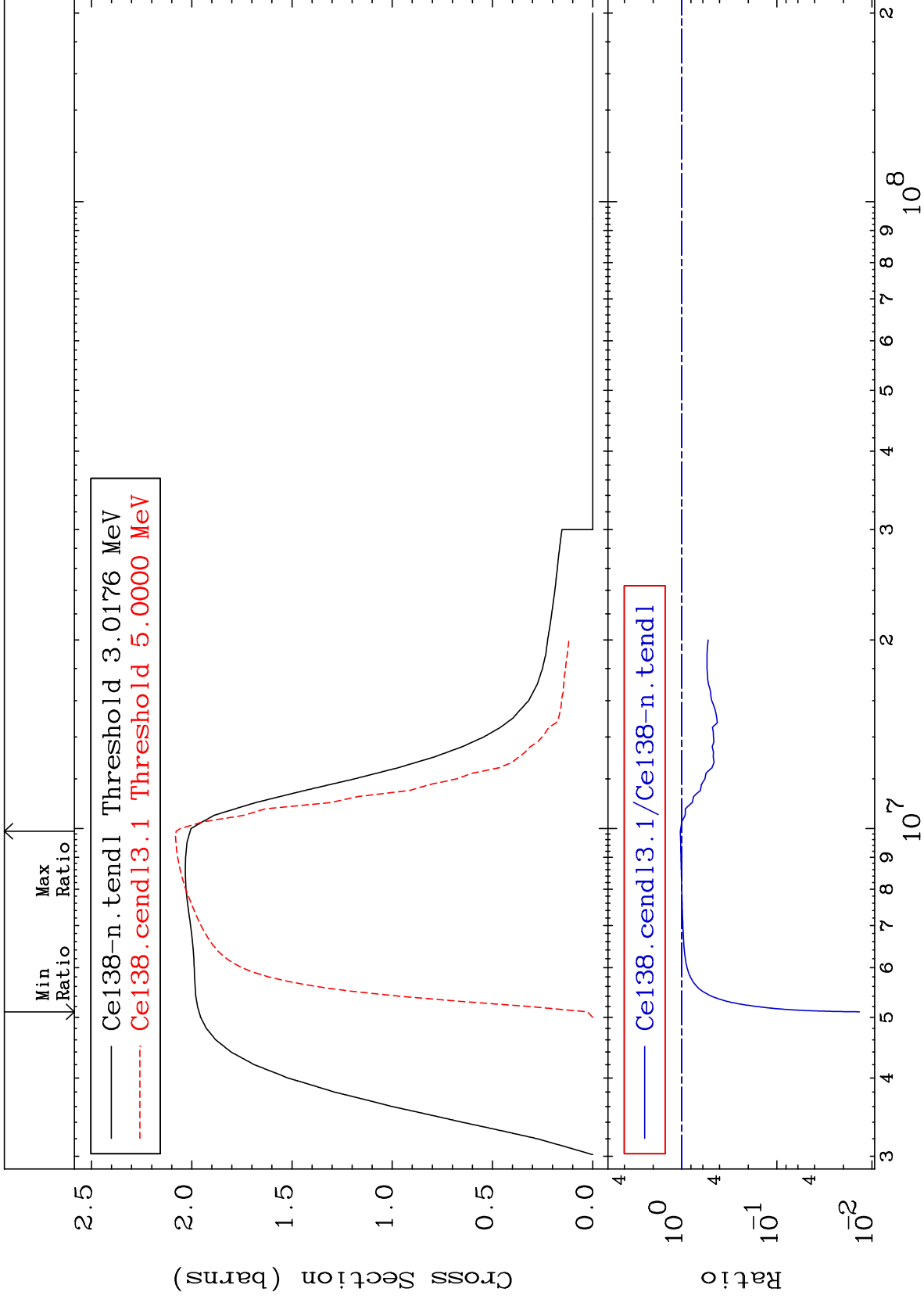
2.499 MeV (n,n') Level

58-Ce-138

-100.0 To 1846. %

Cross Section



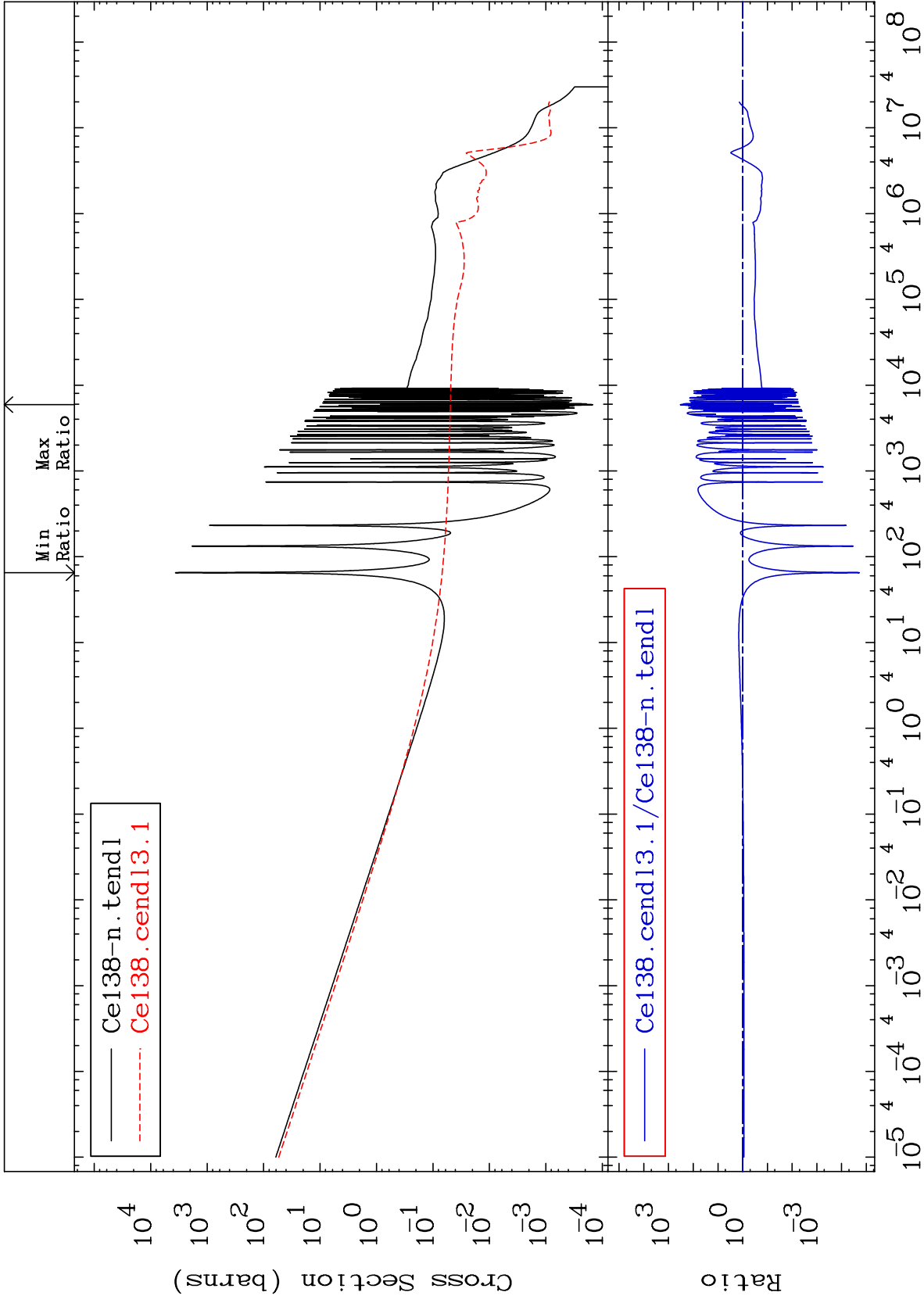


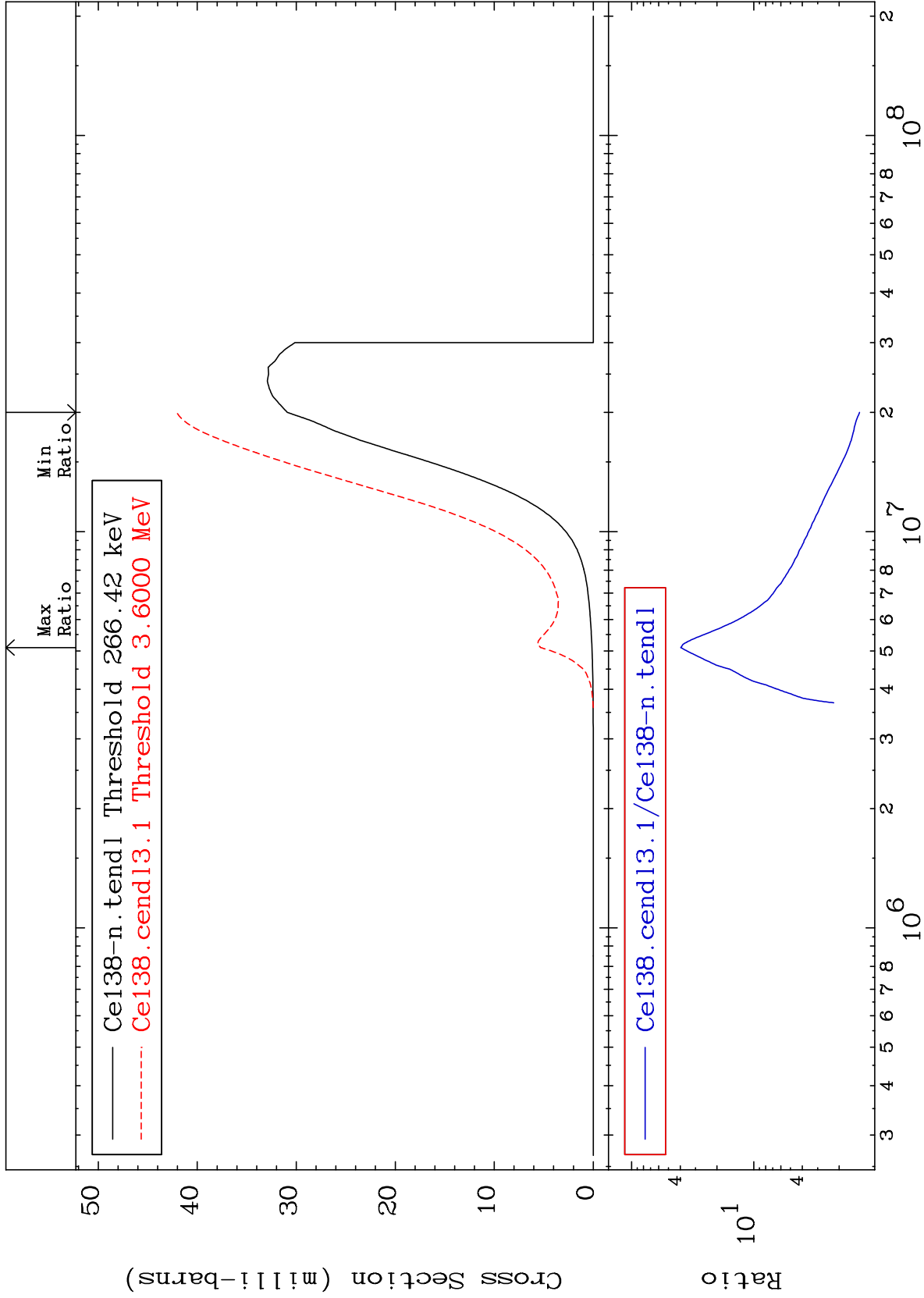


MAT 5831

(n,  $\gamma$ )  
Cross Section

58-Ce-138  
-100.0 To 9999. %





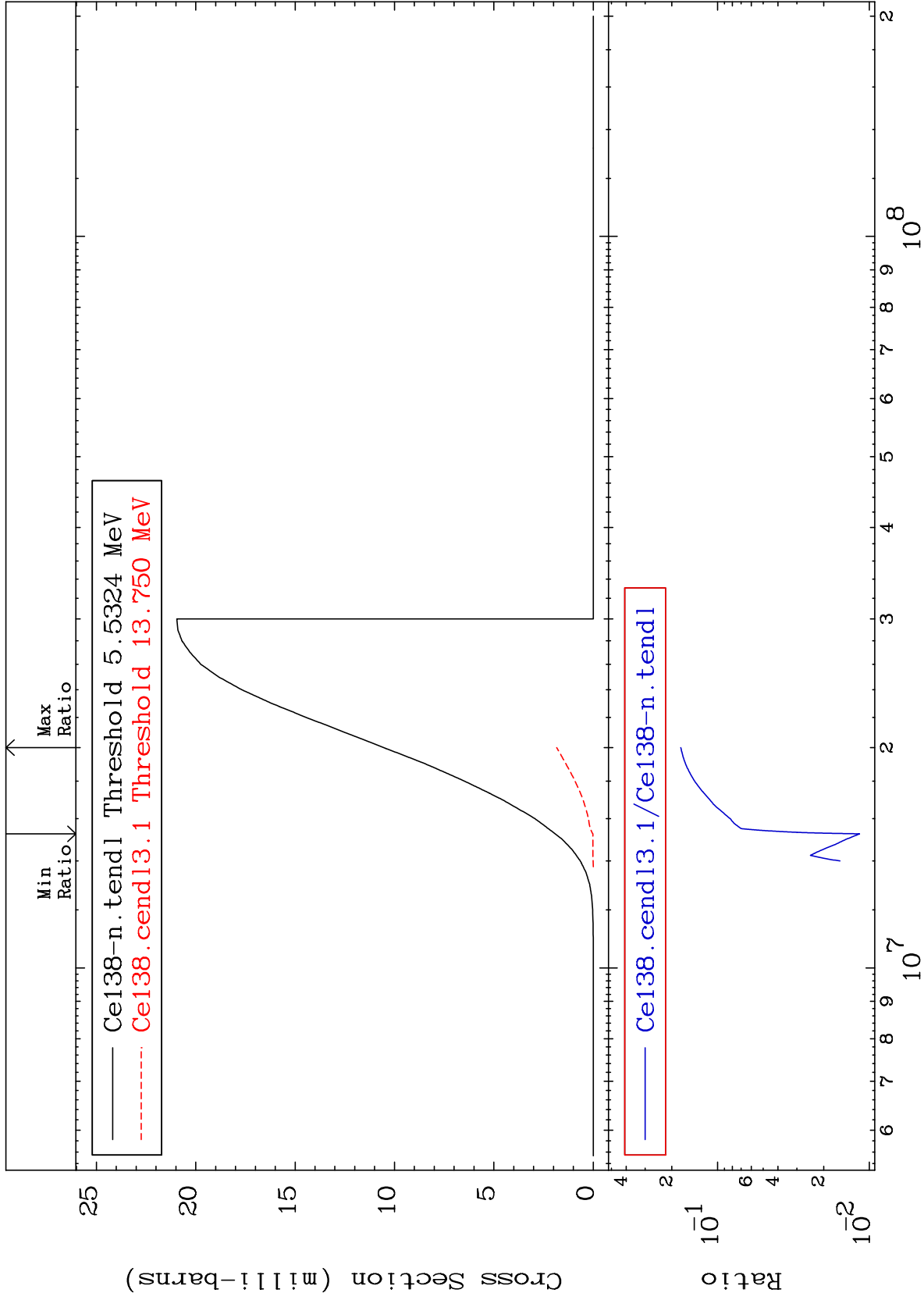
MAT 5831

(n, d)

58-Ce-138

Cross Section

-98.84 To -82.53%



27

Incident Energy (eV)

58-Ce-138

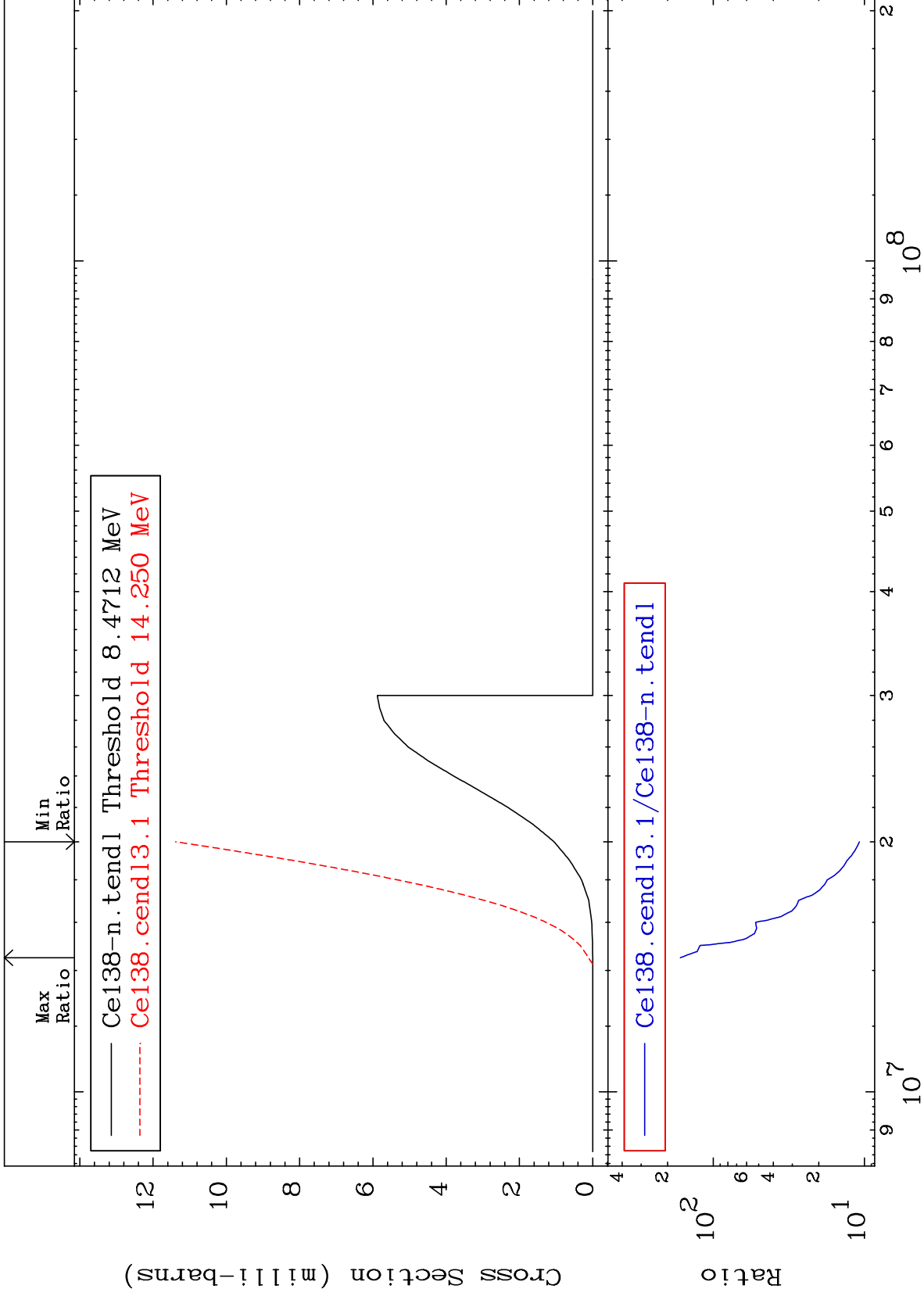
MAT 5831

(n, t)

58-Ce-138

Cross Section

977.7 To 9999. %



28

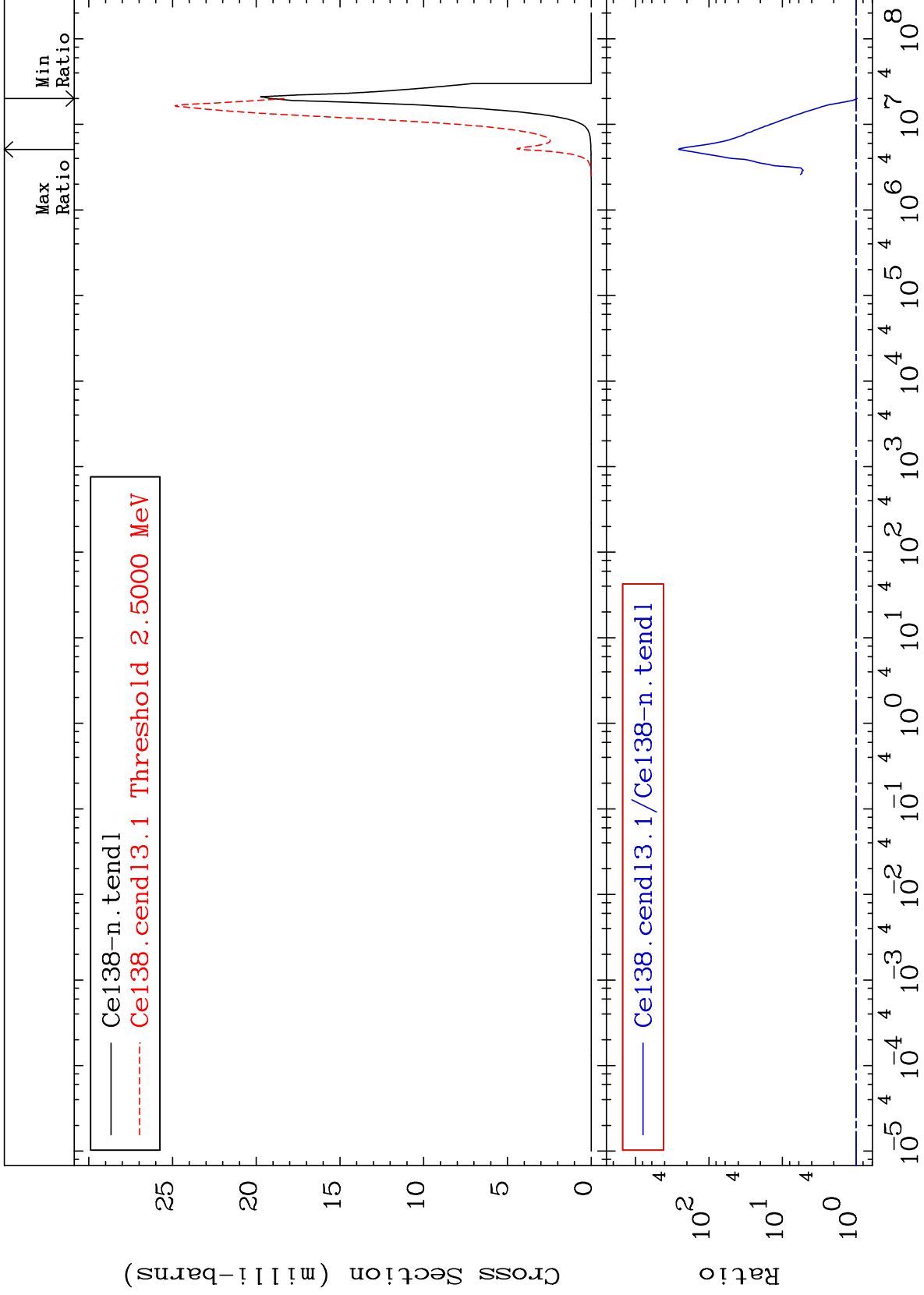
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,  $\alpha$ )  
Cross Section

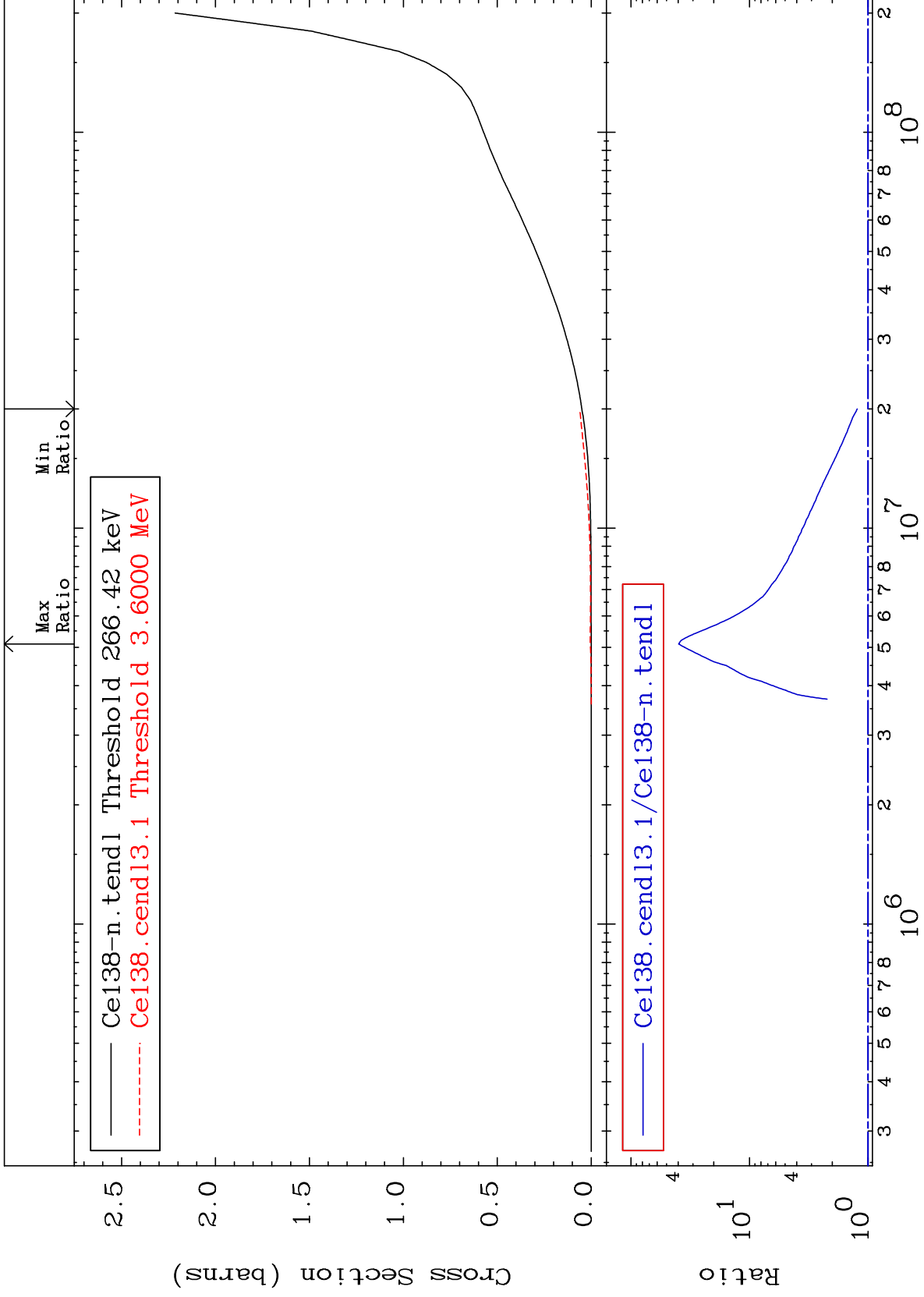
58-Ce-138  
-3.996 To 9999. %



MAT 5831

Hydrogen Production  
Cross Section

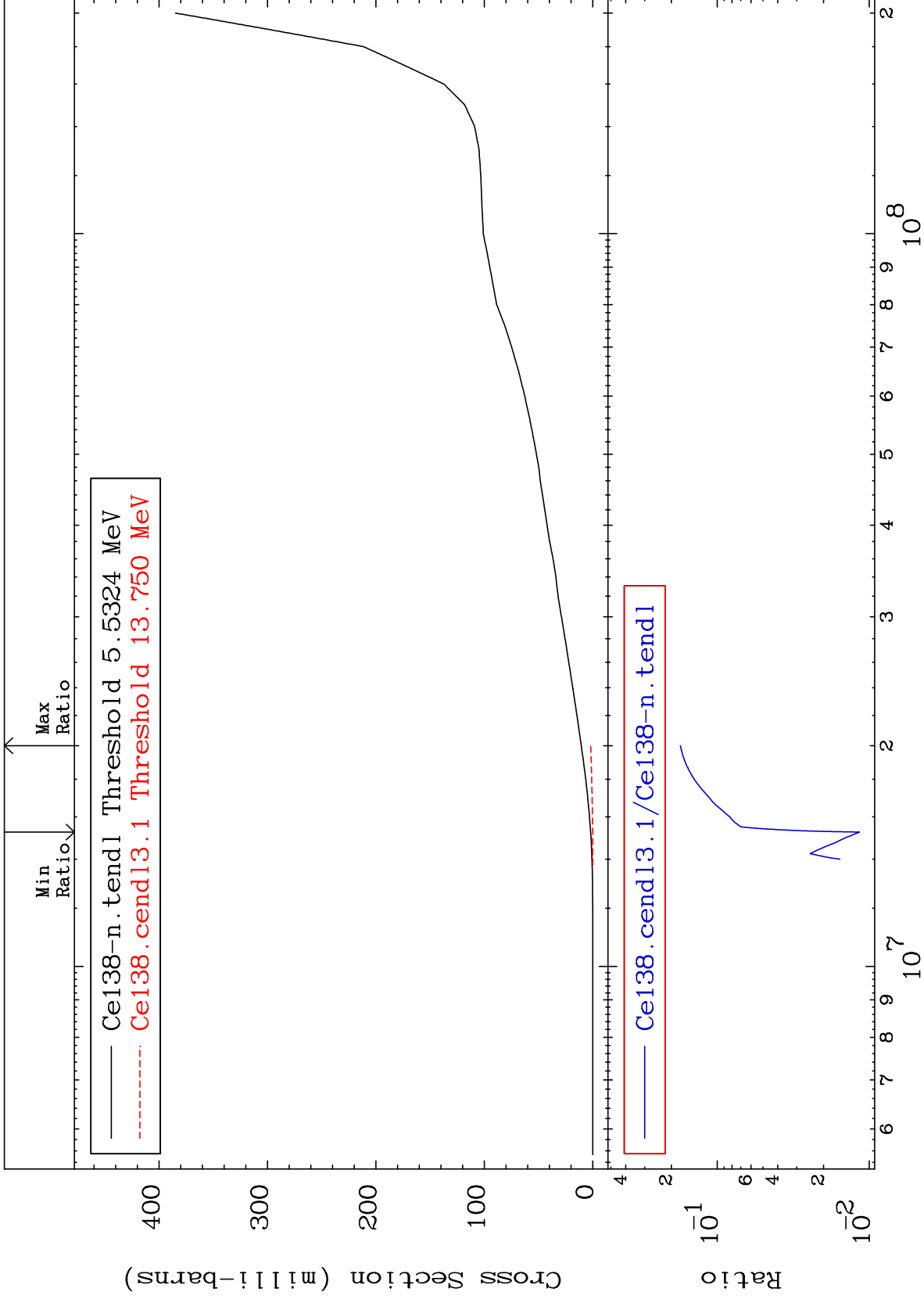
58-Ce-138  
23.25 To 3858. %



30

Incident Energy (eV)

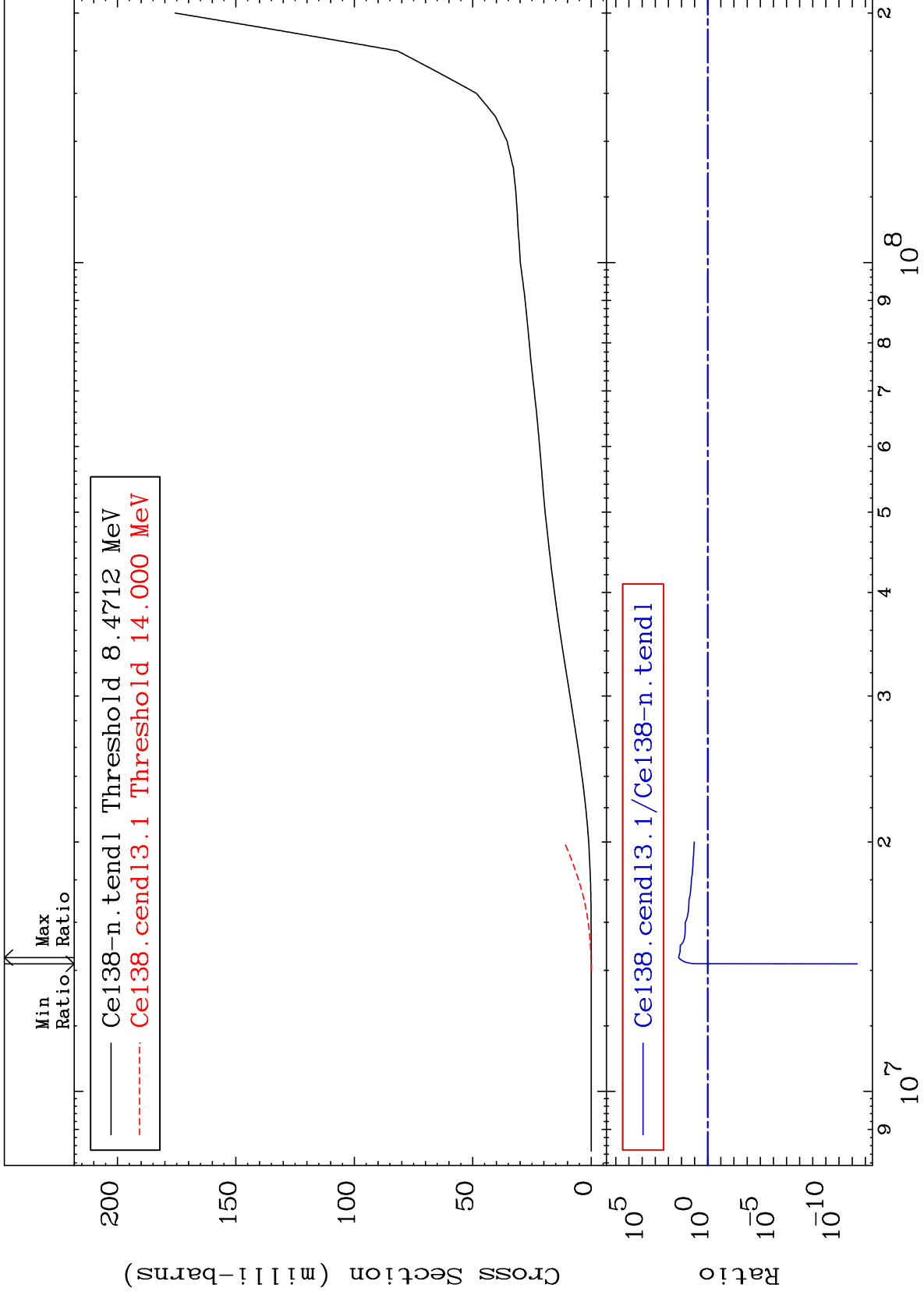
58-Ce-138



MAT 5831

Tritium Production  
Cross Section

58-Ce-138  
-100.0 To 9999. %



32

Incident Energy (eV)

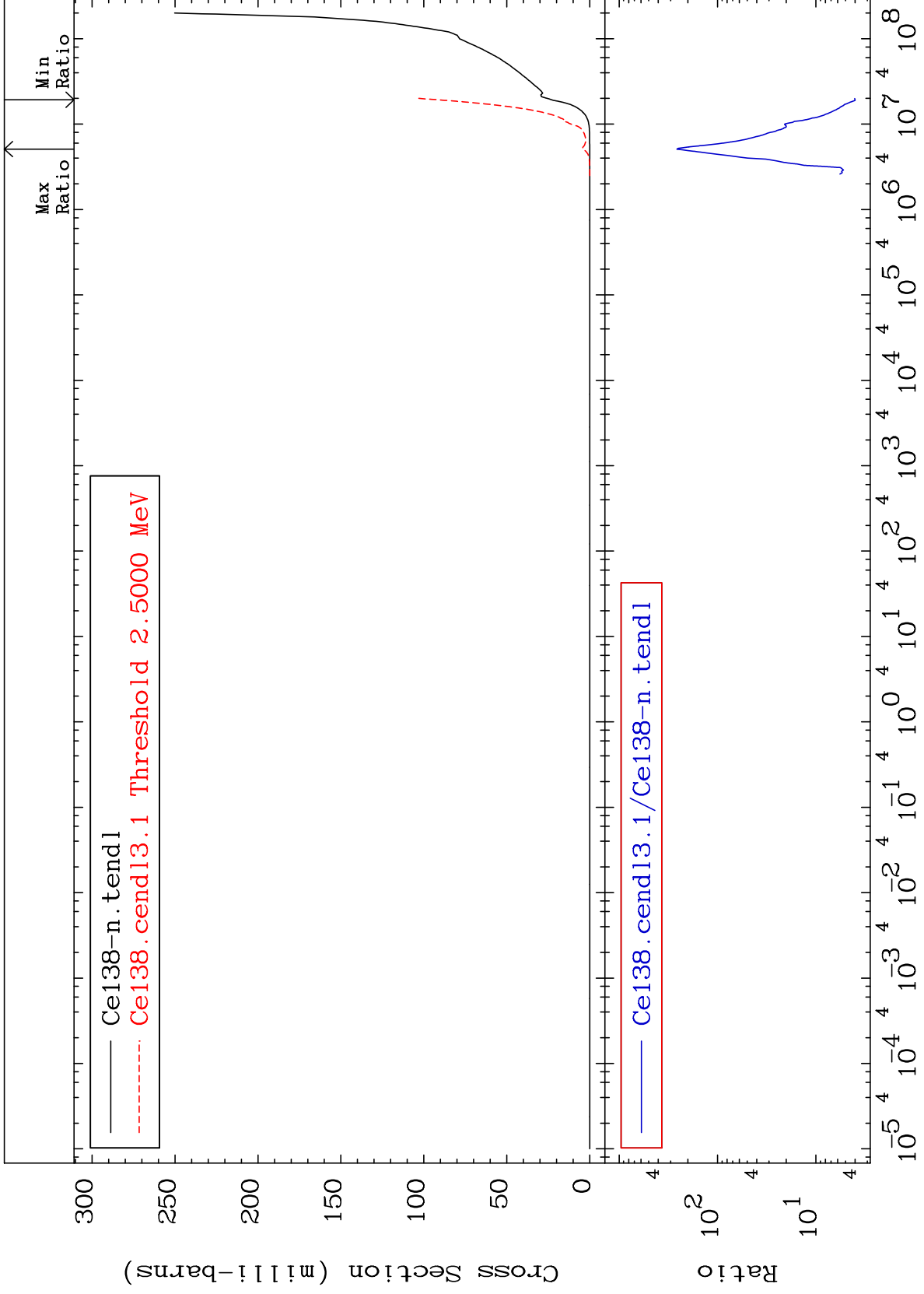
58-Ce-138

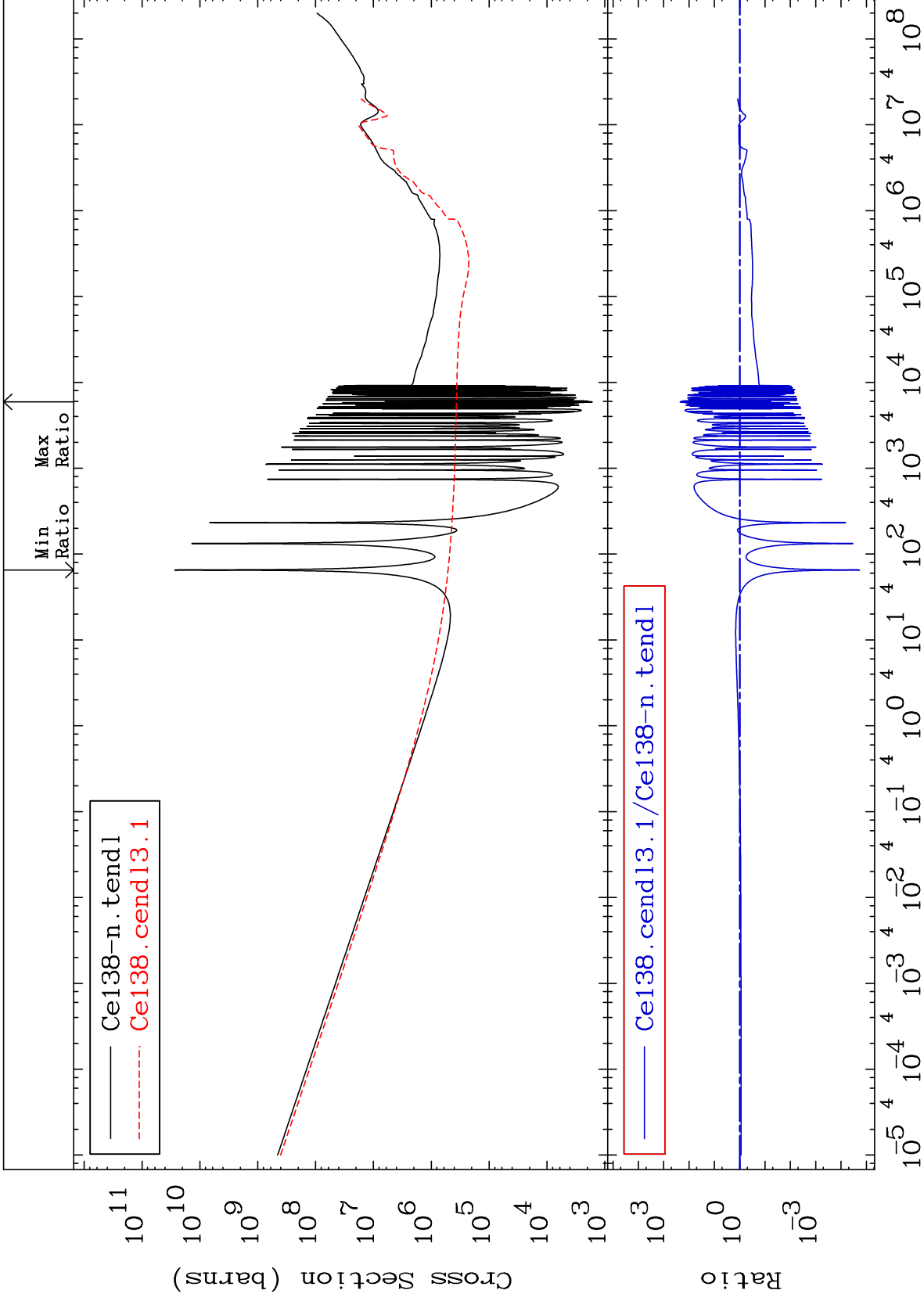


MAT 5831

He-4 Production  
Cross Section

58-Ce-138  
299.4 To 9999. %

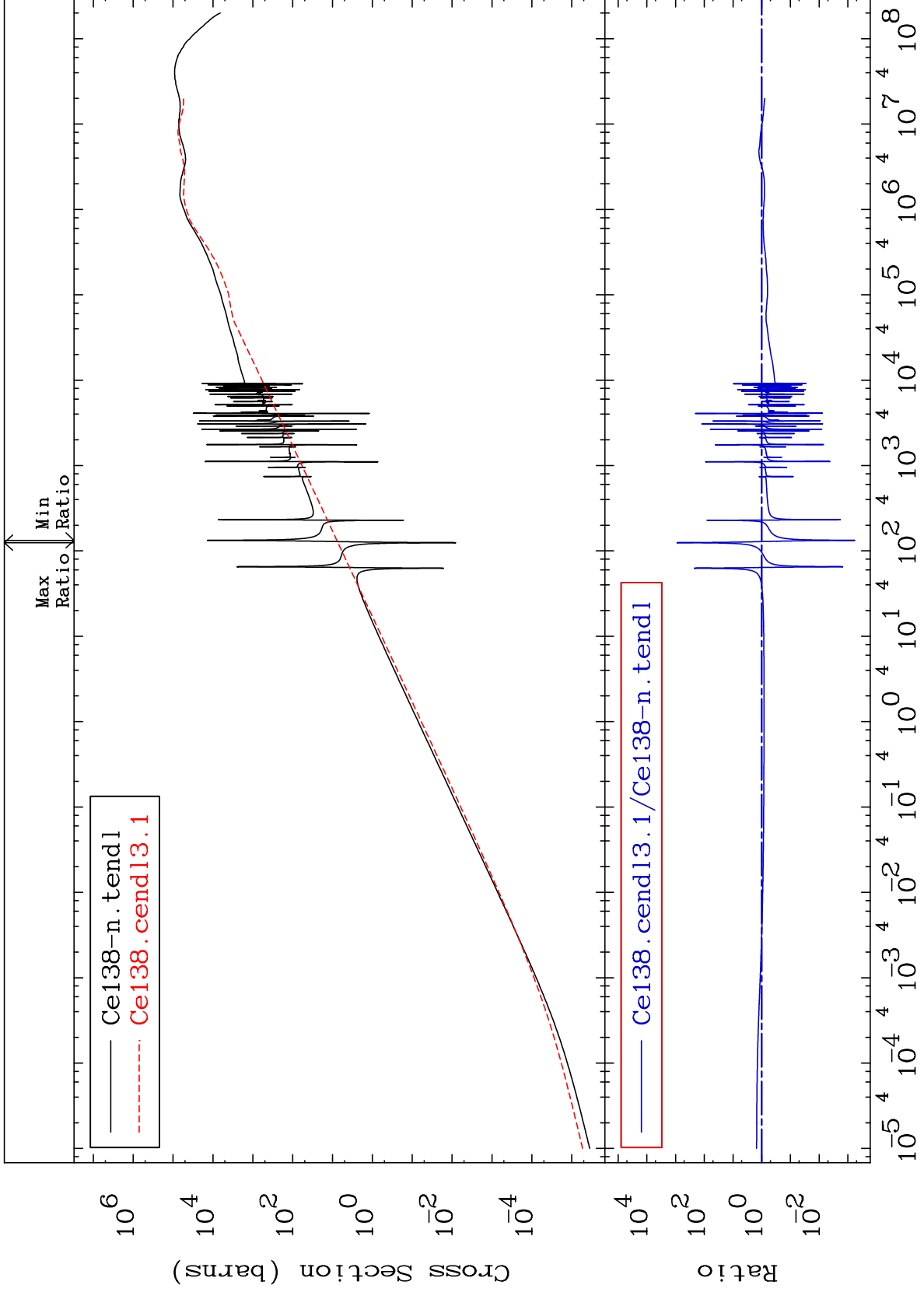


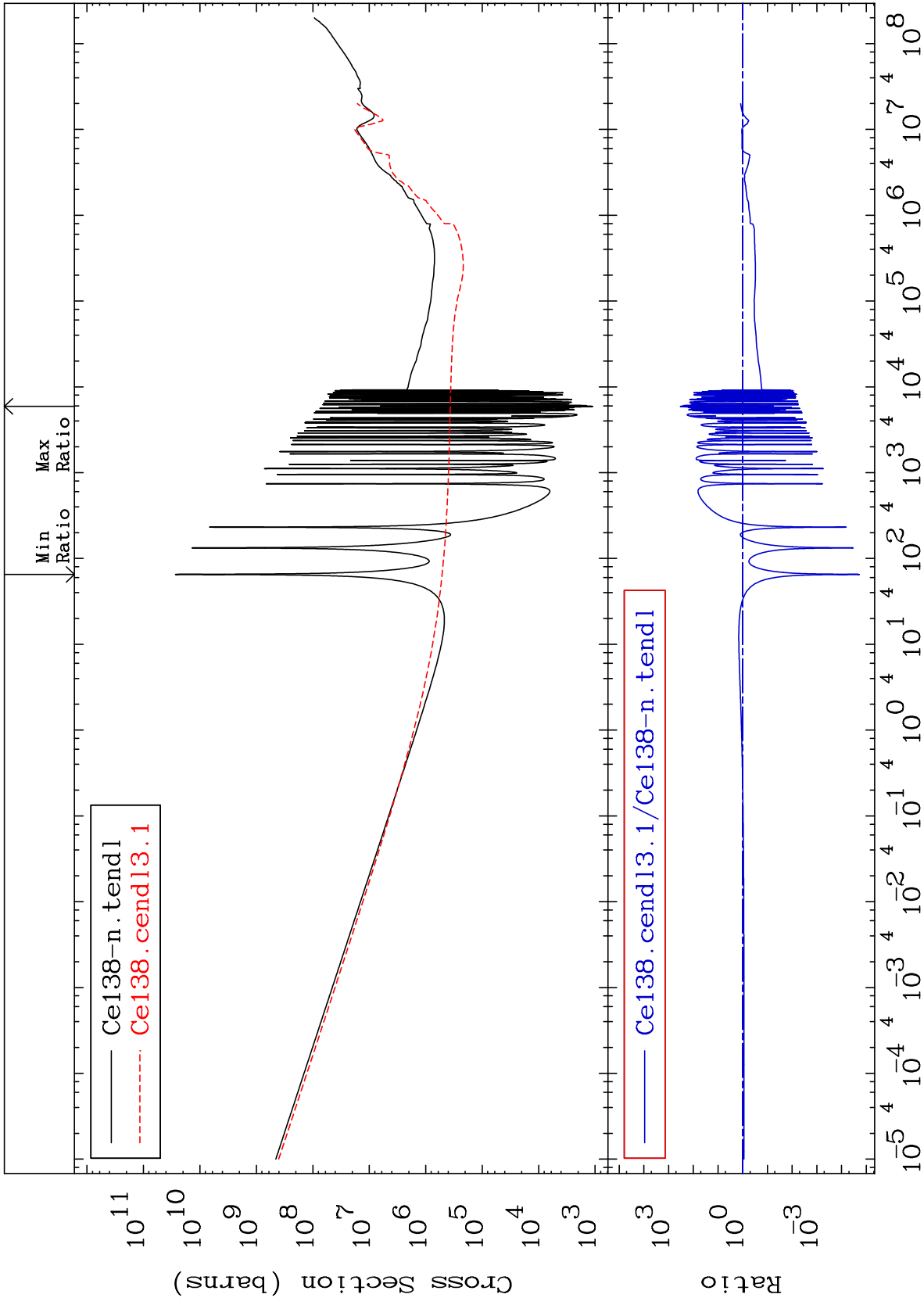


MAT 5831

Kerma elastic  
Cross Section

58-Ce-138  
-99.94 To 9999. %

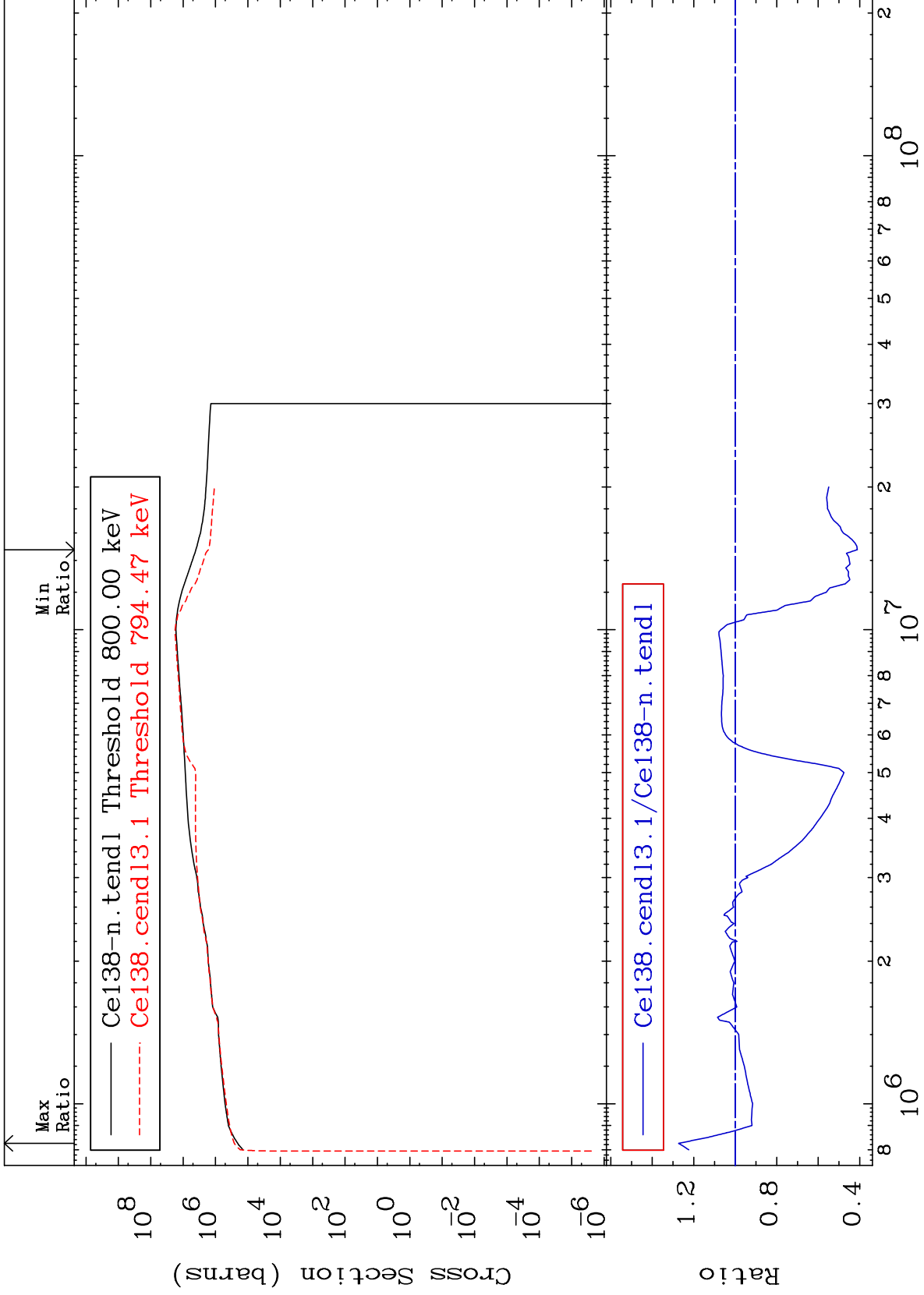




MAT 5831

Kerma inelastic (mt51-91)  
Cross Section

58-Ce-138  
-58.80 To 27.28 %



37

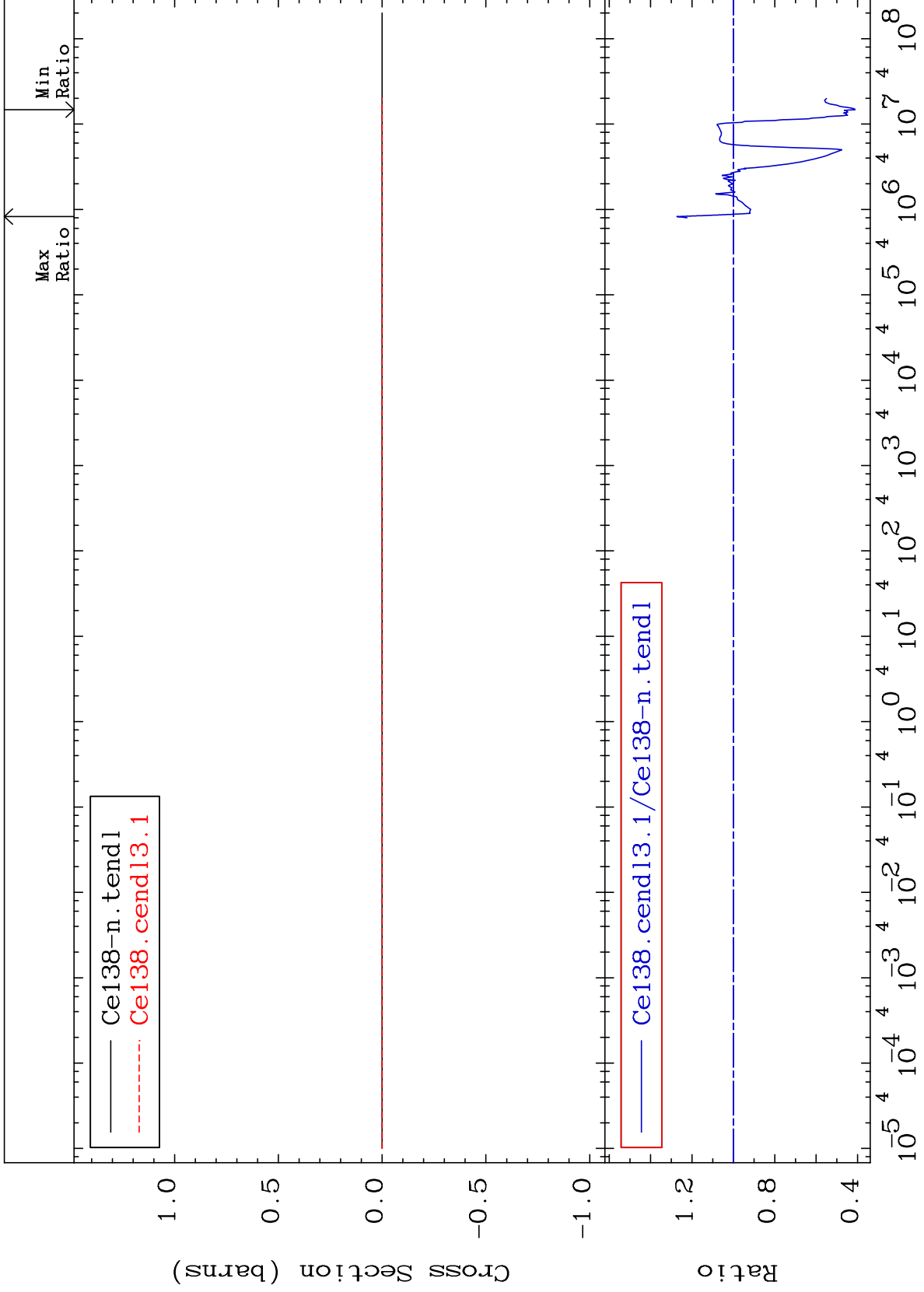
Incident Energy (eV)

58-Ce-138

MAT 5831

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

58-Ce-138  
-58.80 To 27.28 %



38

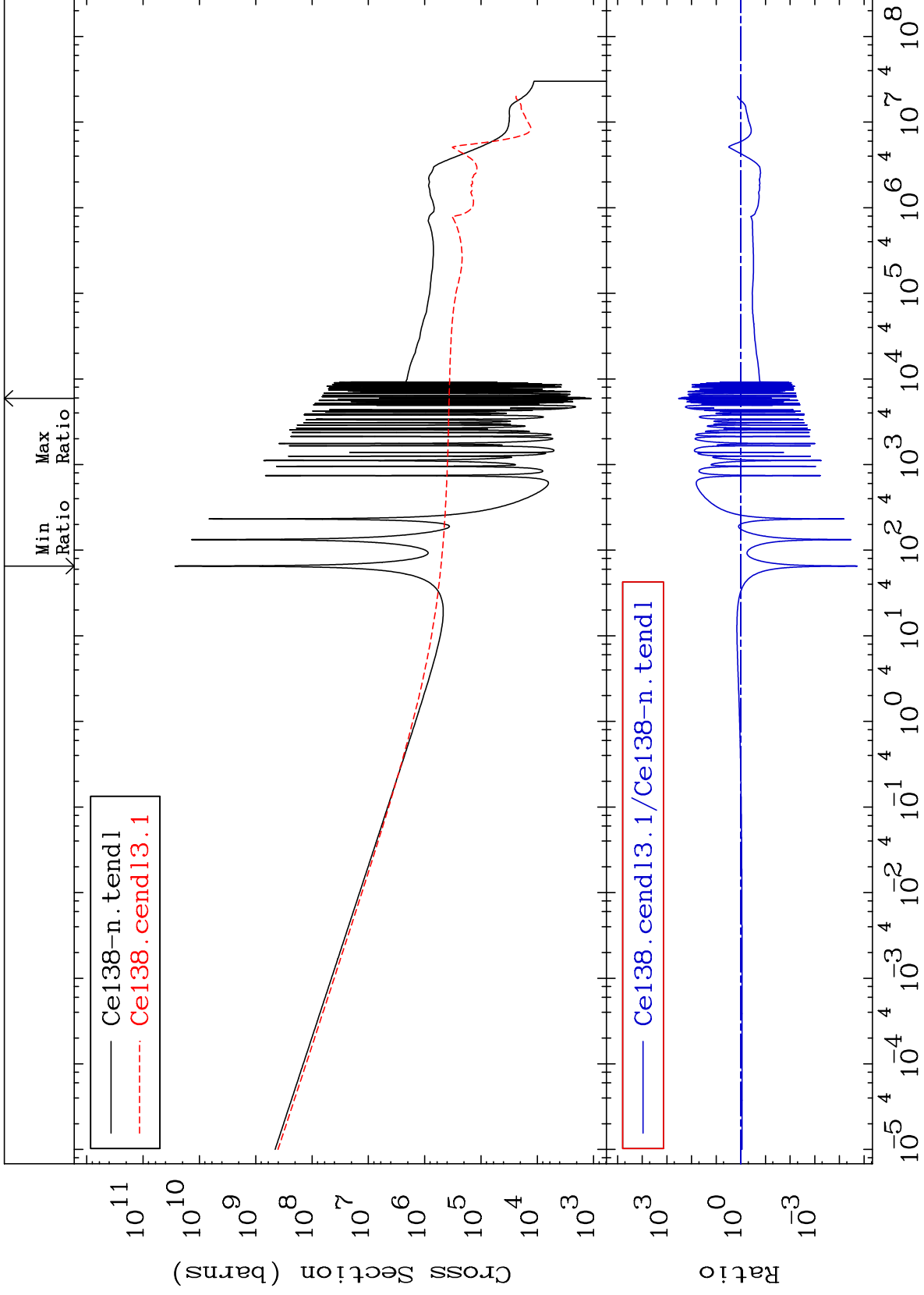
Incident Energy (eV)

58-Ce-138

MAT 5831

Kerma capture (mt102)  
Cross Section

58-Ce-138  
-100.0 To 9999. %

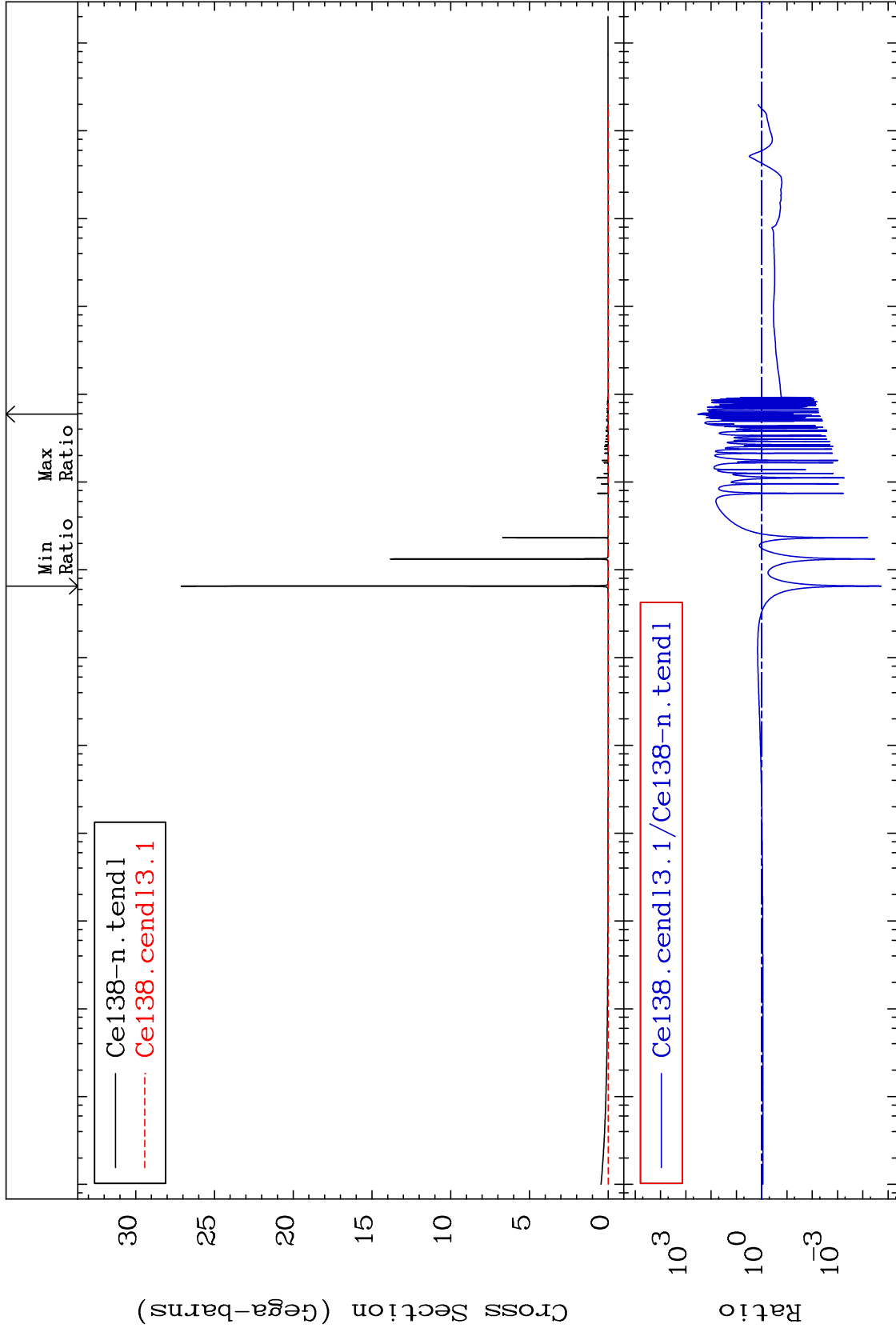


MAT 5831

Total photon (eV-barns)  
Cross Section

58-Ce-138

-100.0 To 9999. %

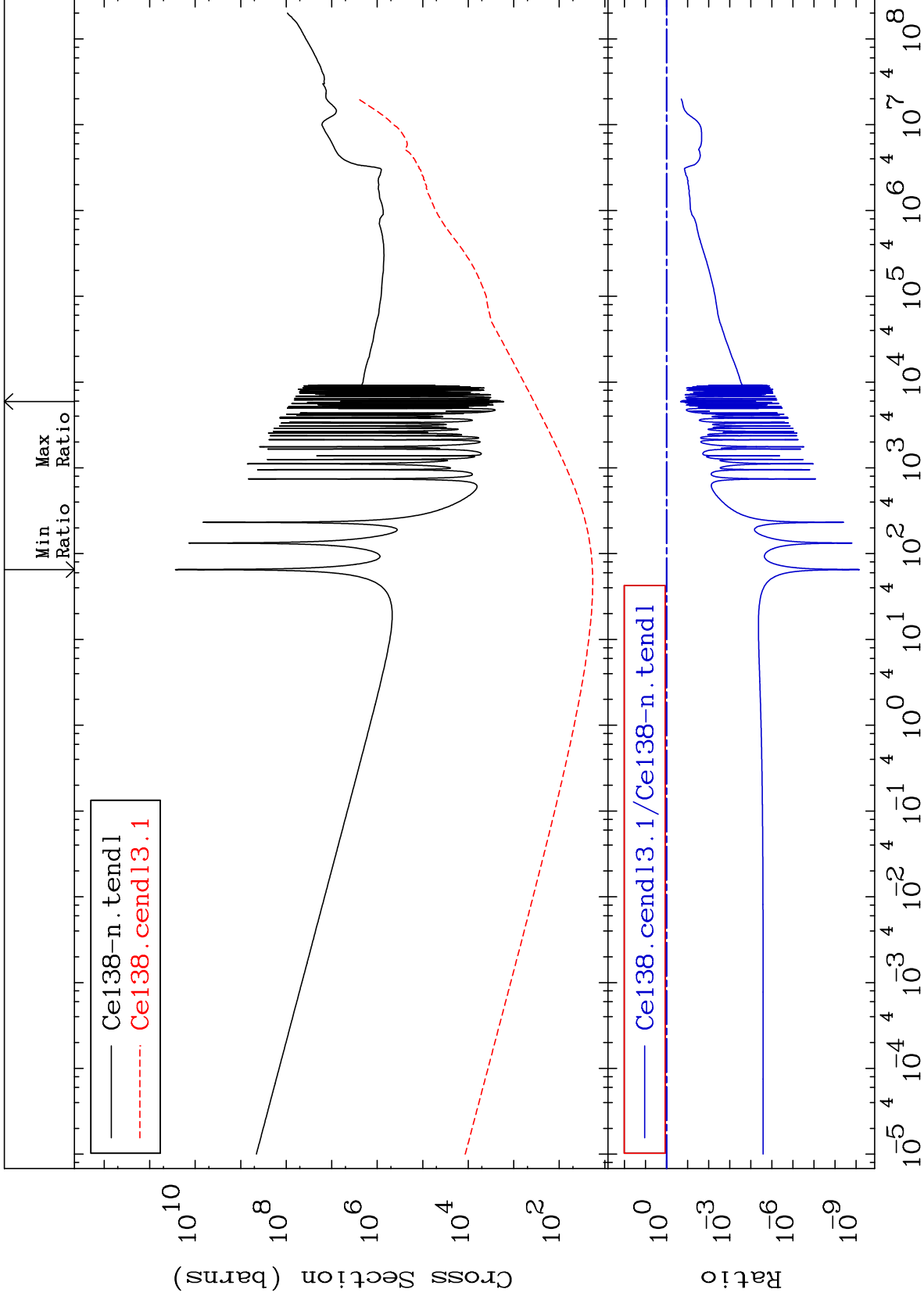


Incident Energy (eV)

58-Ce-138

40





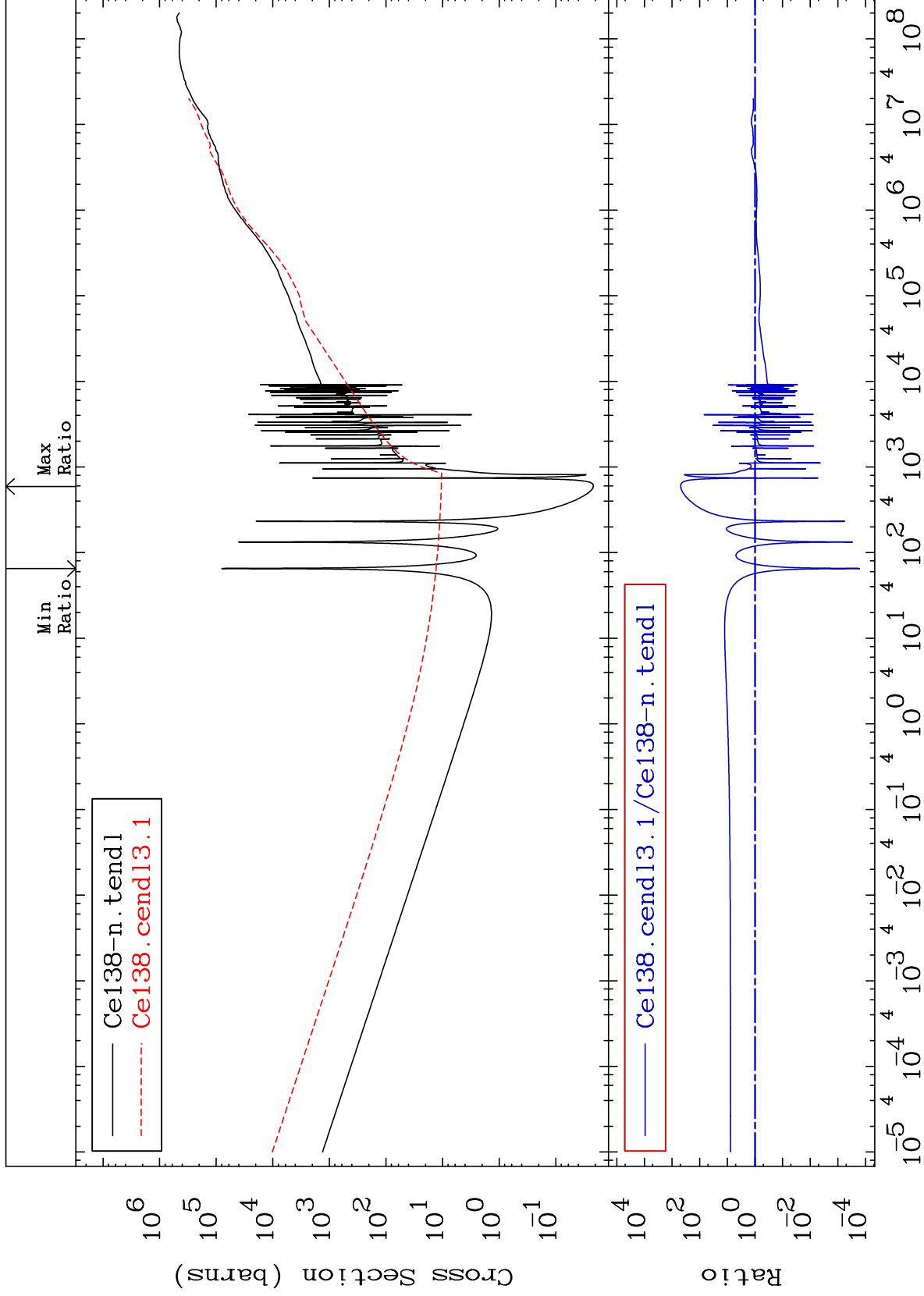
MAT 5831

Dpa total (eV-barns)

58-Ce-138

-99.98 To 9999. %

Cross Section



42

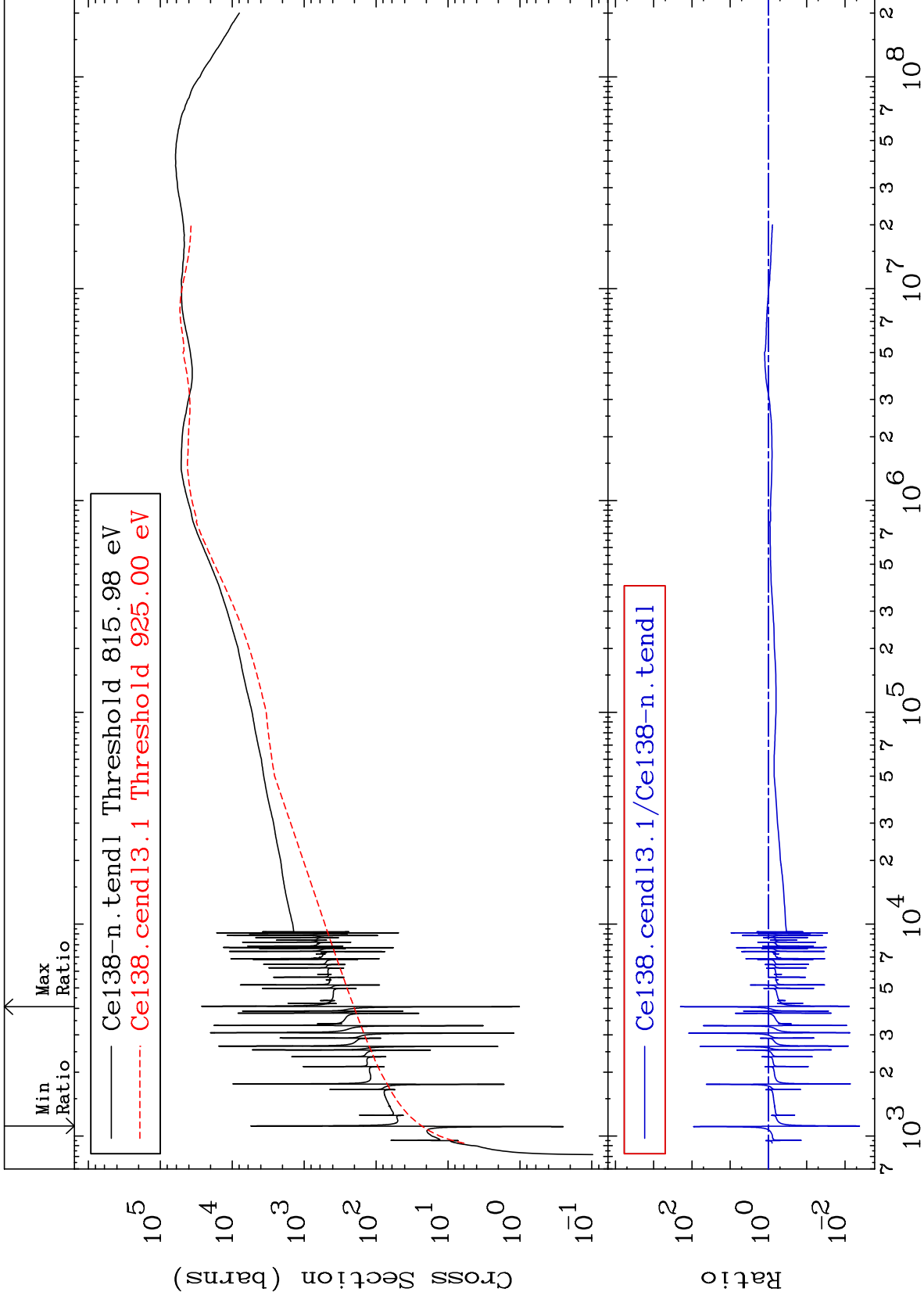
Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa elastic (mt2)  
Cross Section

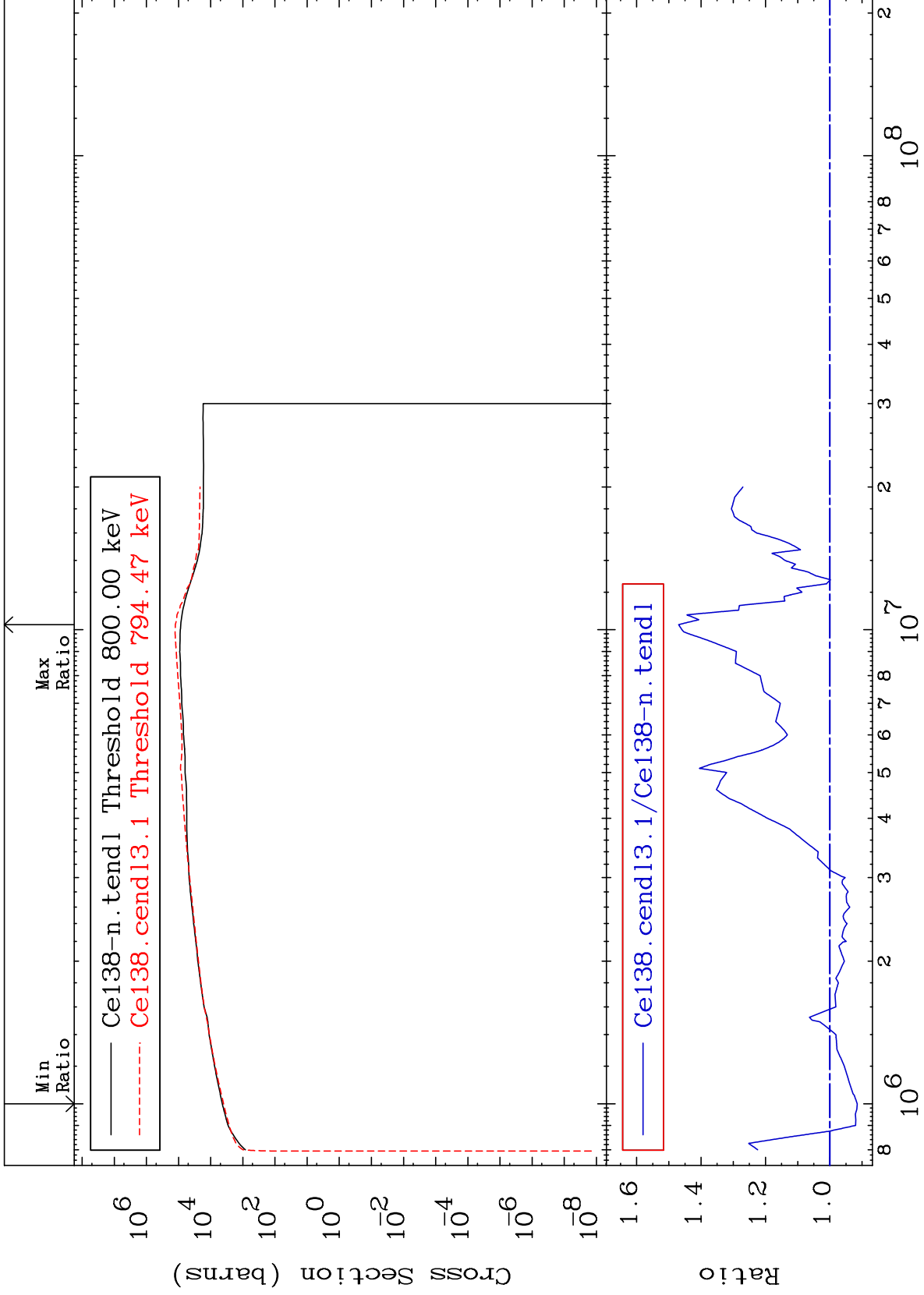
58-Ce-138  
-99.58 To 9999. %



43

Incident Energy (eV)

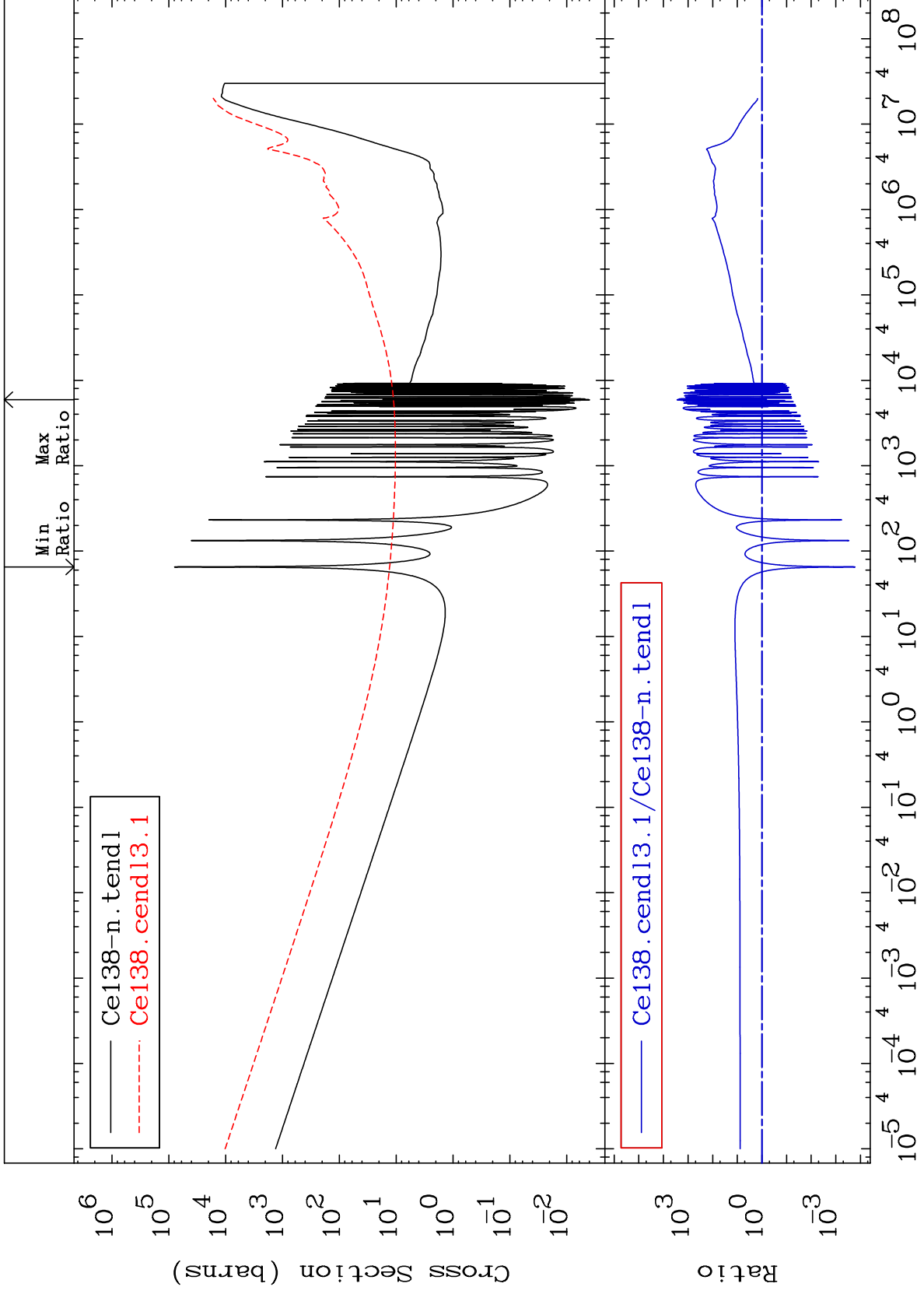
58-Ce-138



MAT 5831

Dpa disappearance (mt102 -120)  
Cross Section

58-Ce-138  
-99.98 To 9999. %



45

Incident Energy (eV)

58-Ce-138