

Program Complot  
(Version 2018-1)

by

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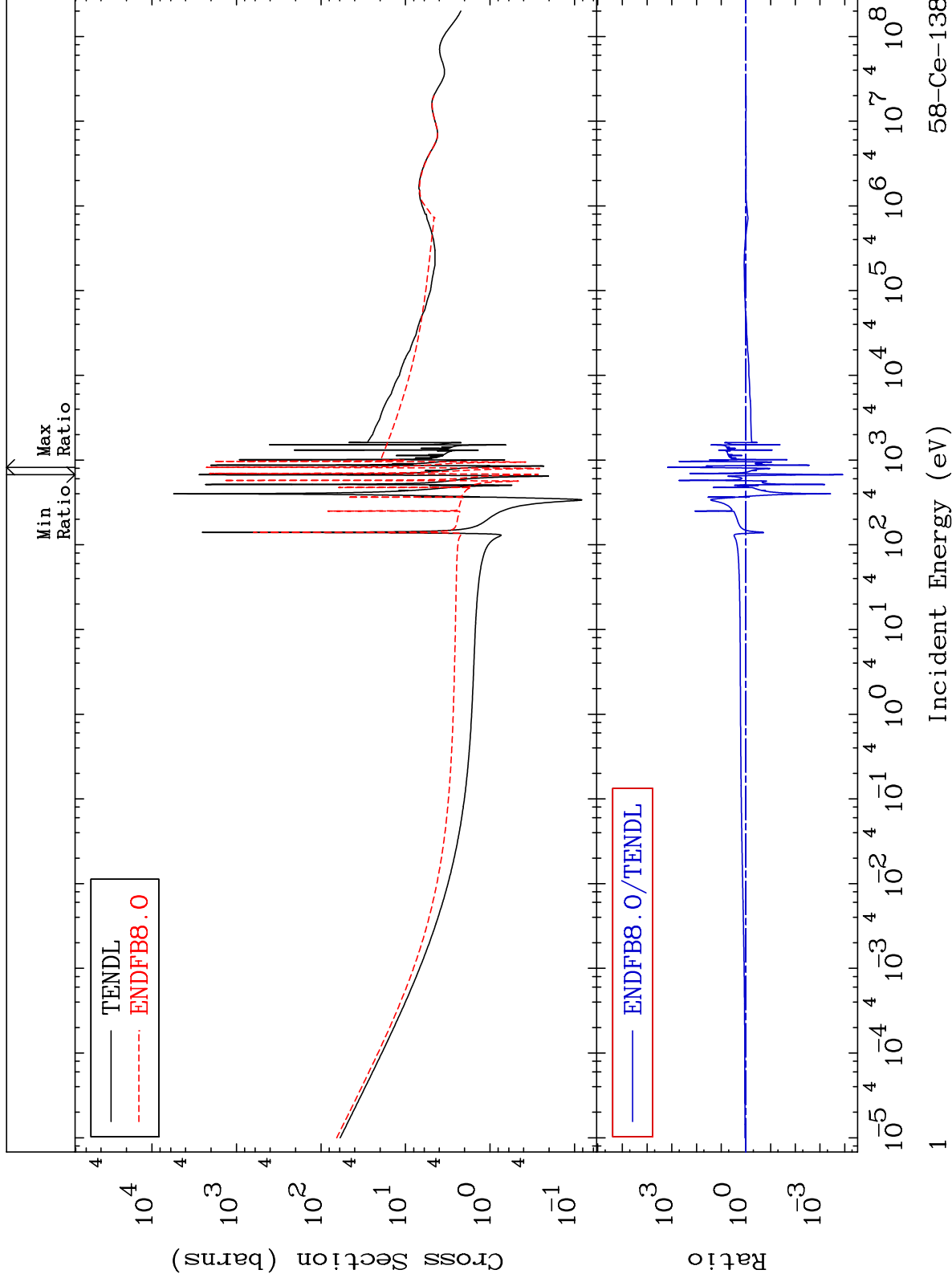
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5831

Total  
Cross Section

58-Ce-138  
-99.99 To 9999. %

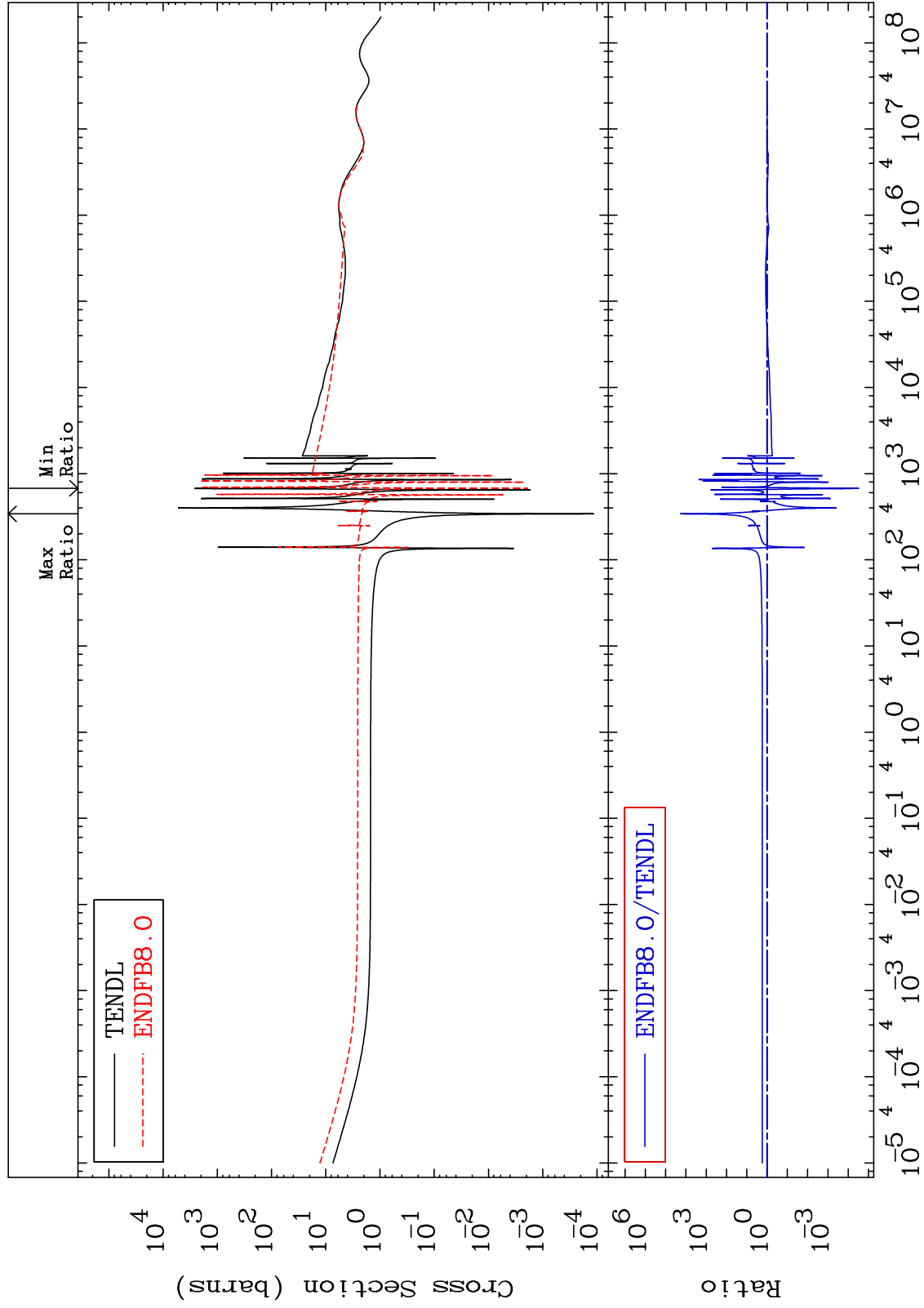


58-Ce-138

MAT 5831

Elastic  
Cross Section

58-Ce-138  
-100.0 To 9999. %



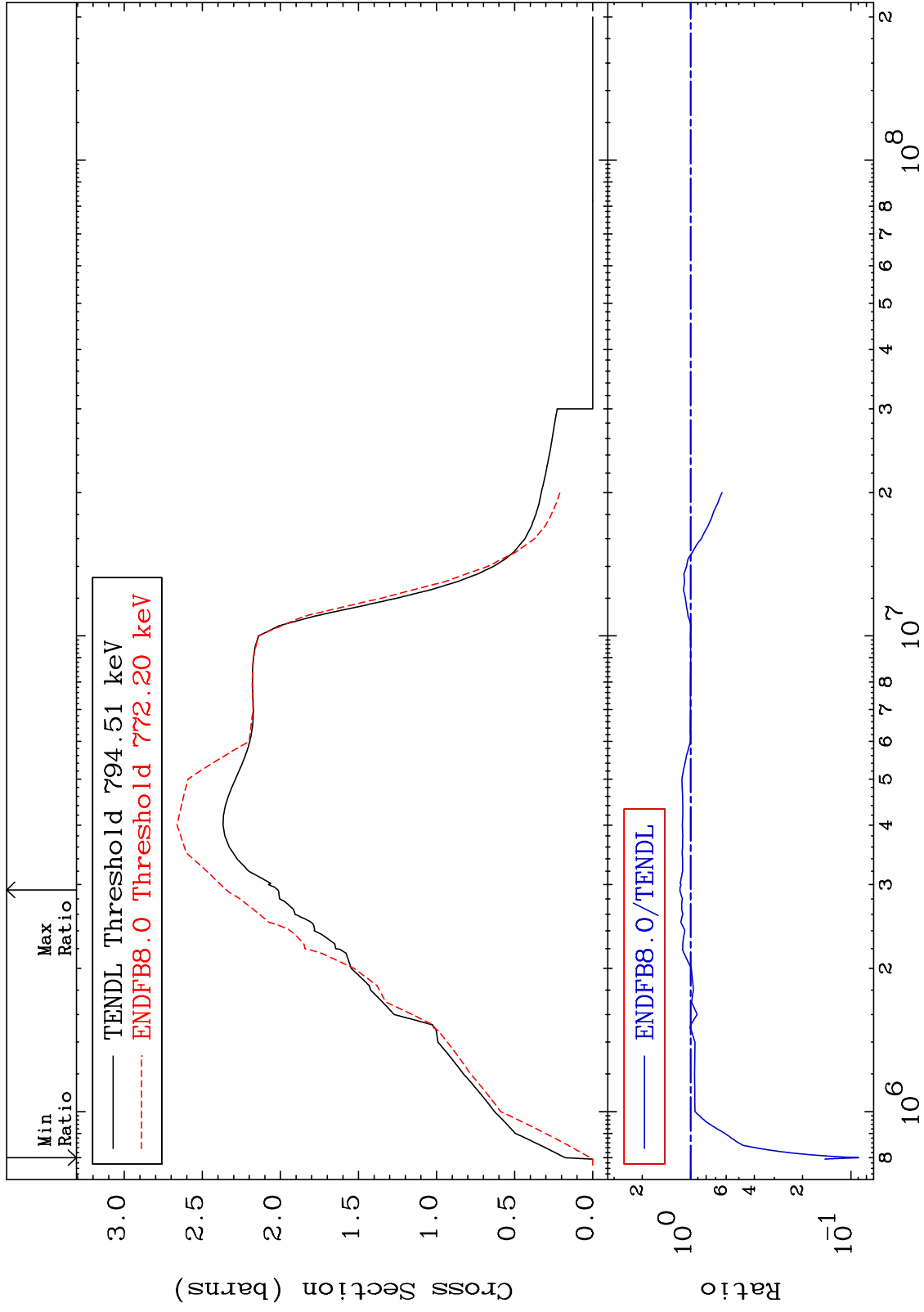
MAT 5831

Inelastic

58-Ce-138

Cross Section

-91.02 To 16.35 %



Incident Energy (eV)

58-Ce-138

3

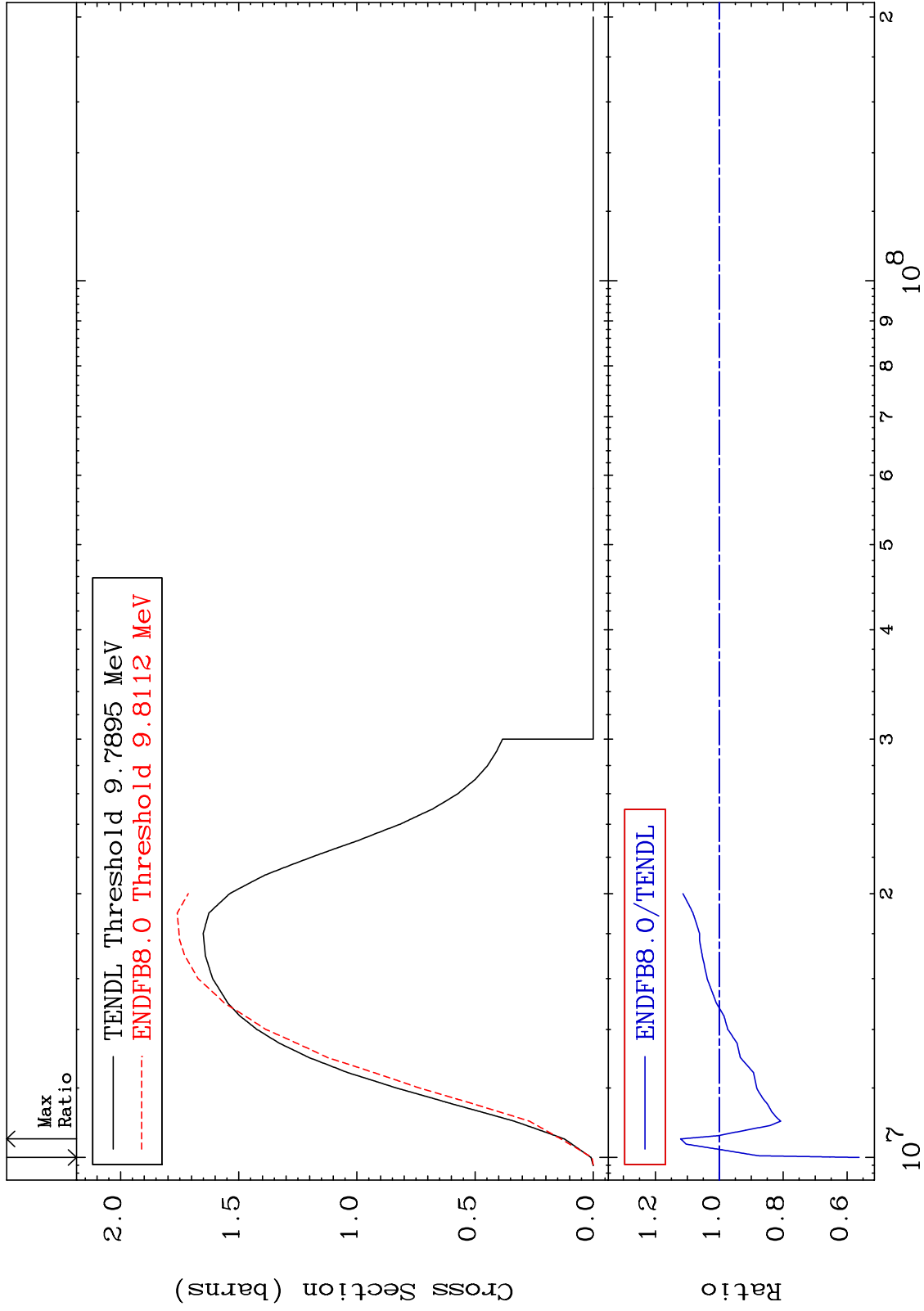
MAT 5831

(n,2n)

58-Ce-138

Cross Section

-43.78 To 12.10 %



58-Ce-138

58-Ce-138

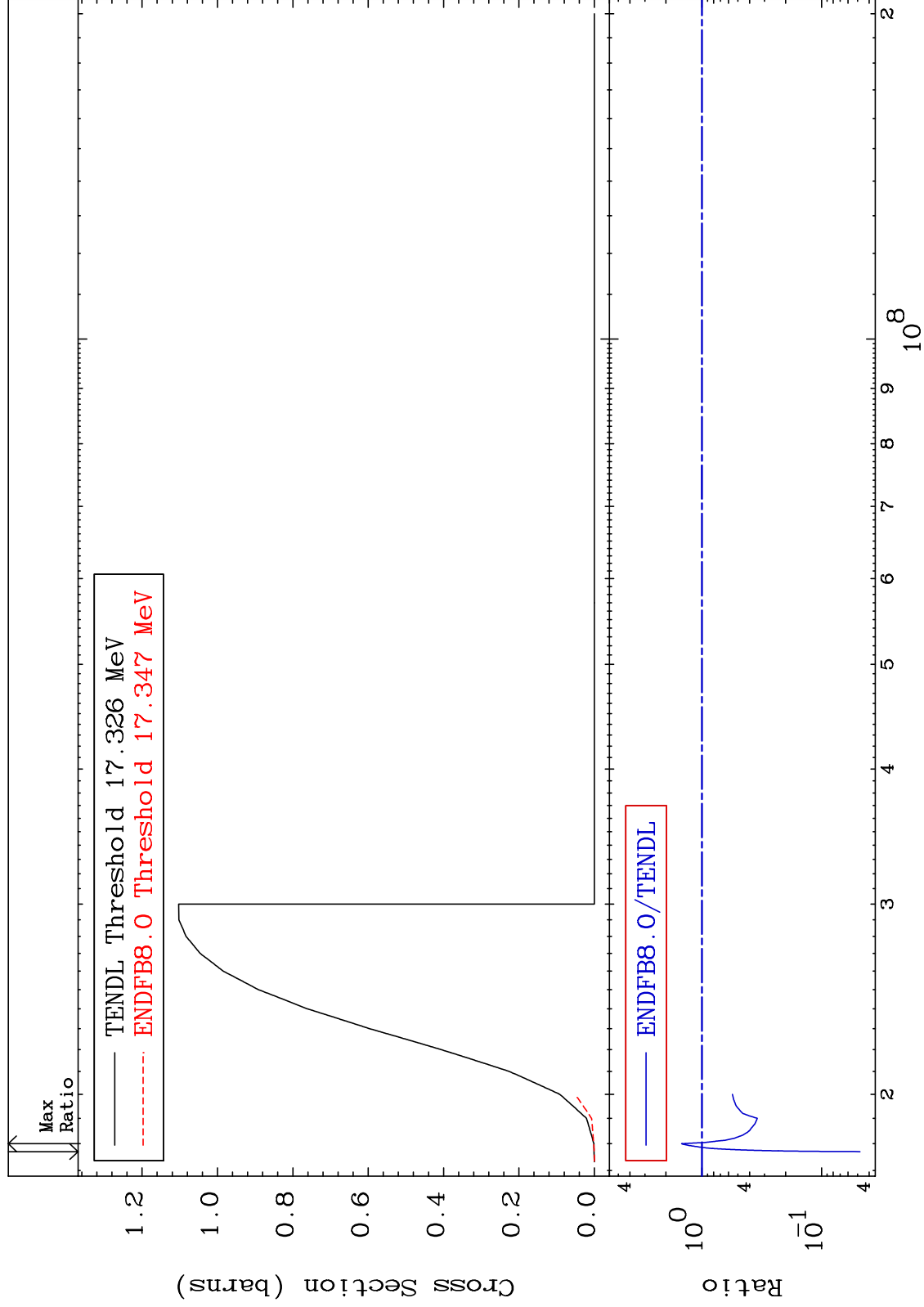
MAT 5831

(n, 3n)

58-Ce-138

Cross Section

-95.24 To 47.90 %



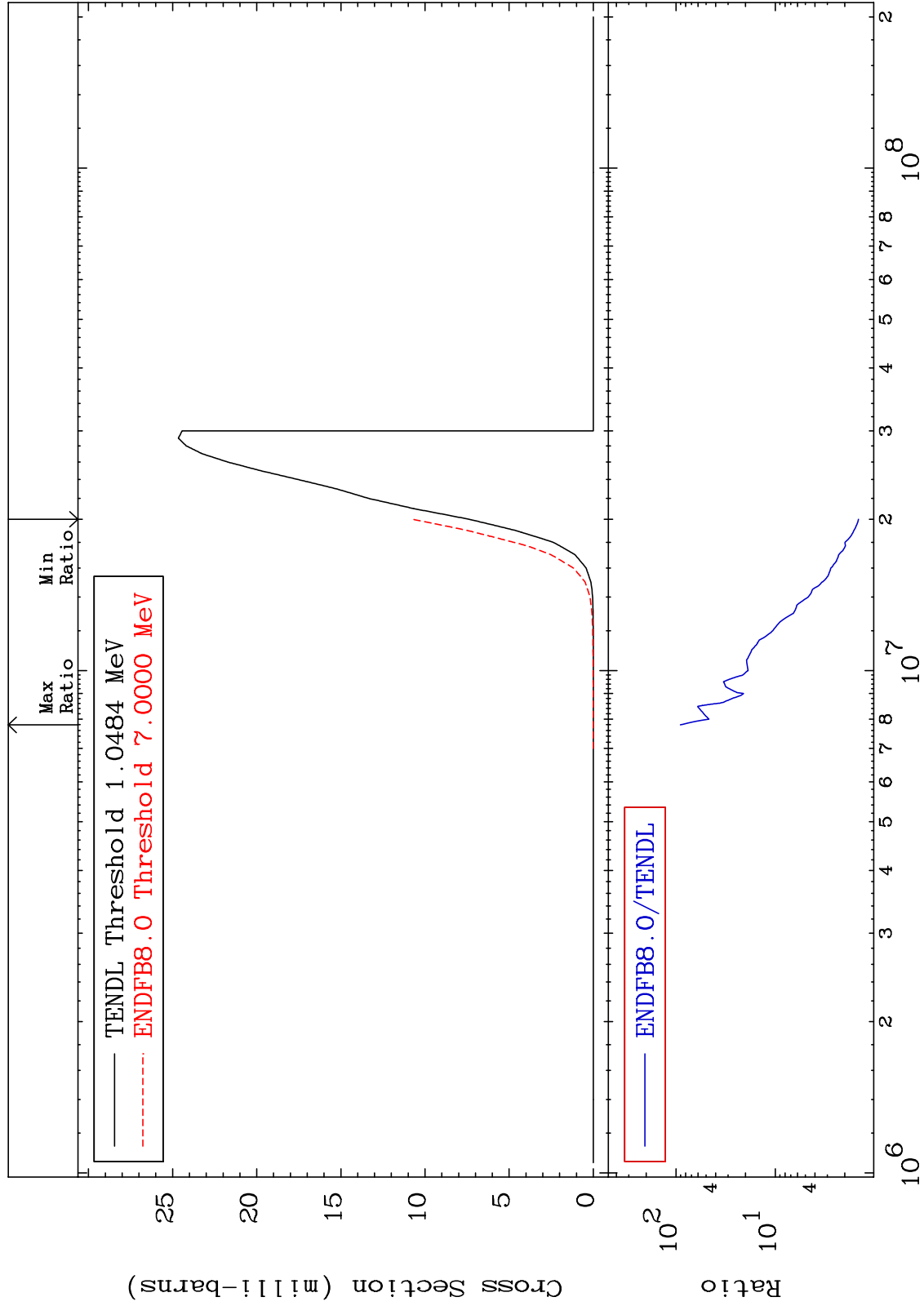
MAT 5831

(n,n')  $\alpha$

58-Ce-138

45.61 To 8937. %

Cross Section

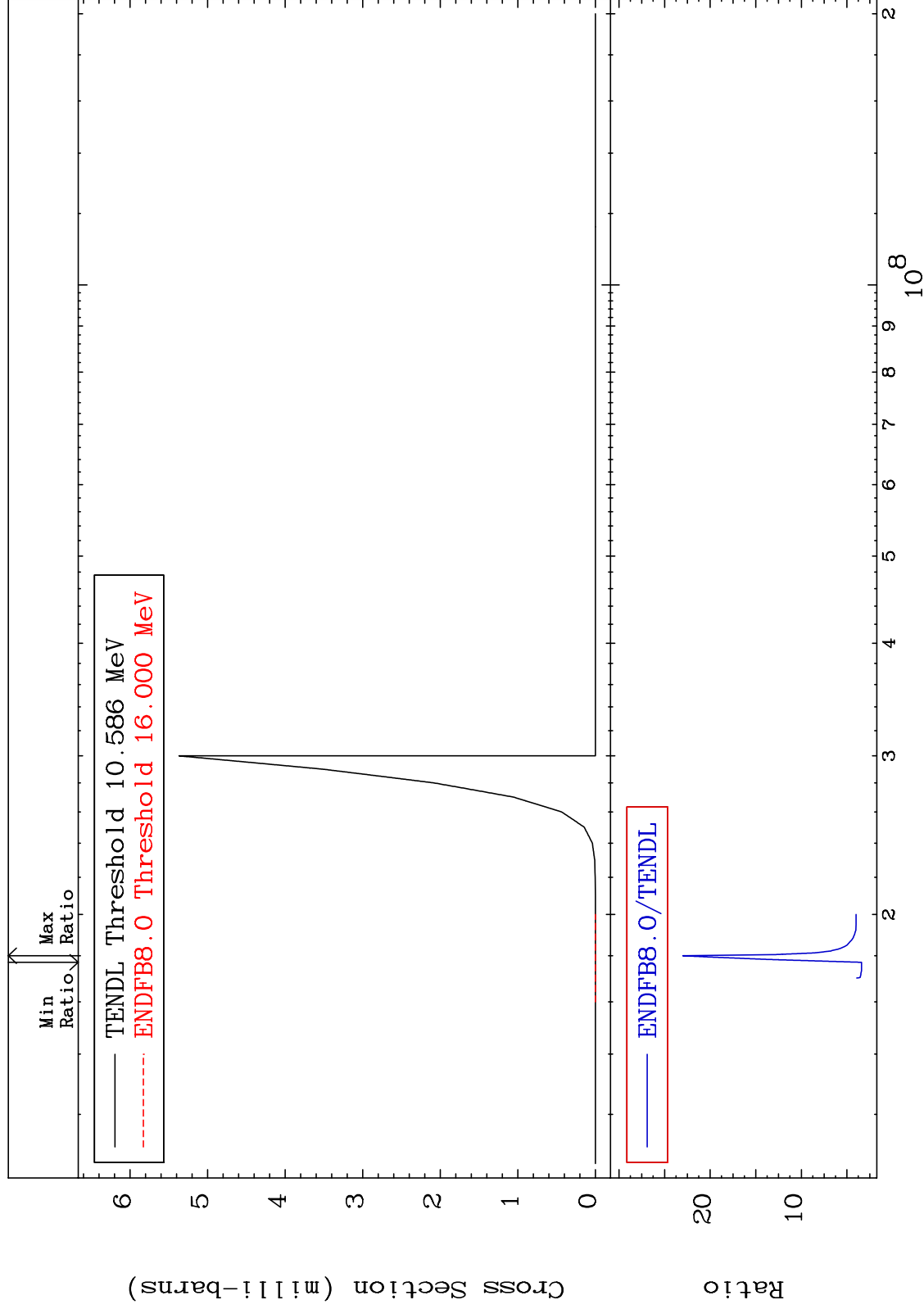


MAT 5831

(n,2n)  $\alpha$

Cross Section

58-Ce-138  
239.6 To 2199. %





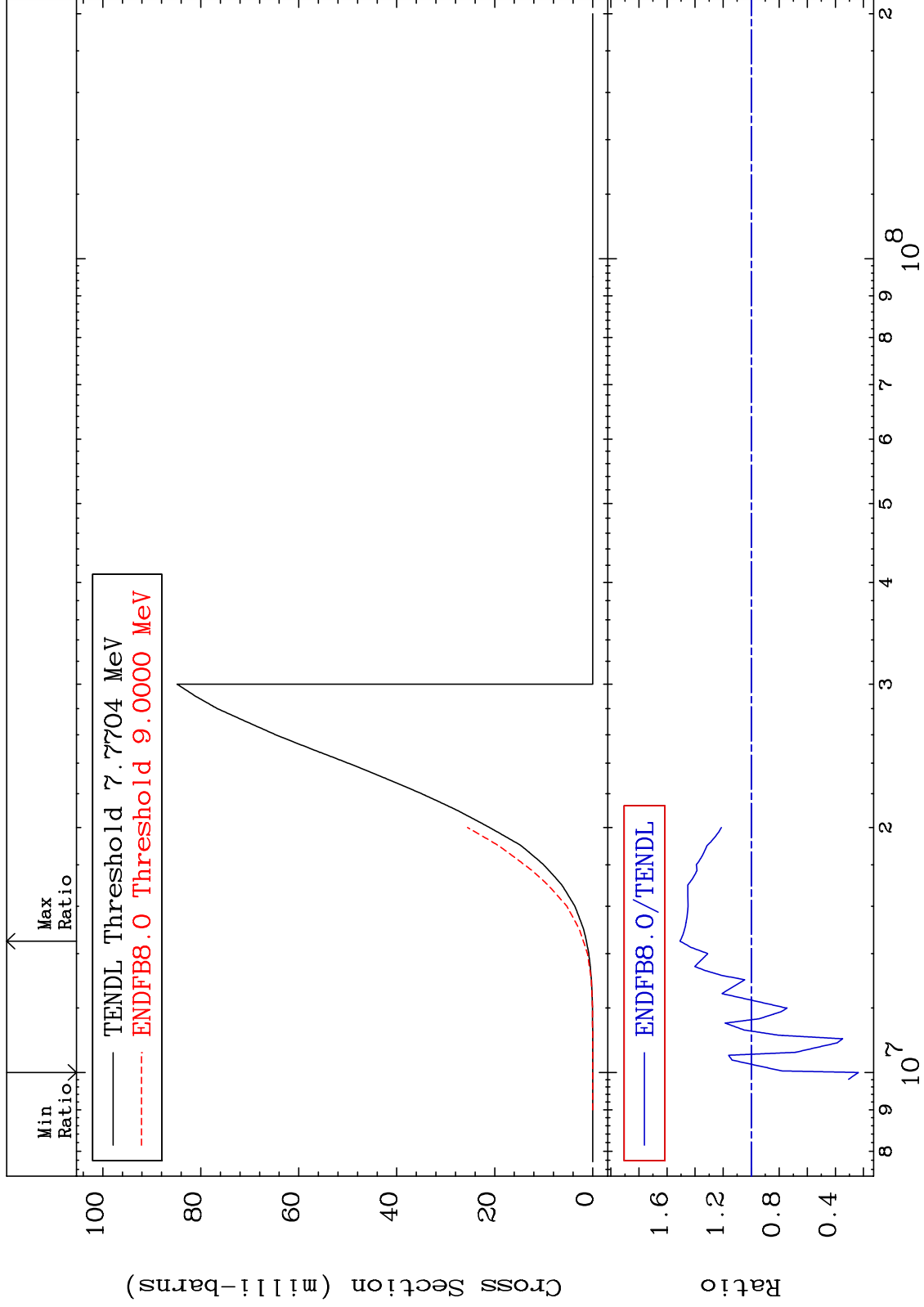
MAT 5831

(n,n') p

58-Ce-138

Cross Section

-76.40 To 50.72 %



8

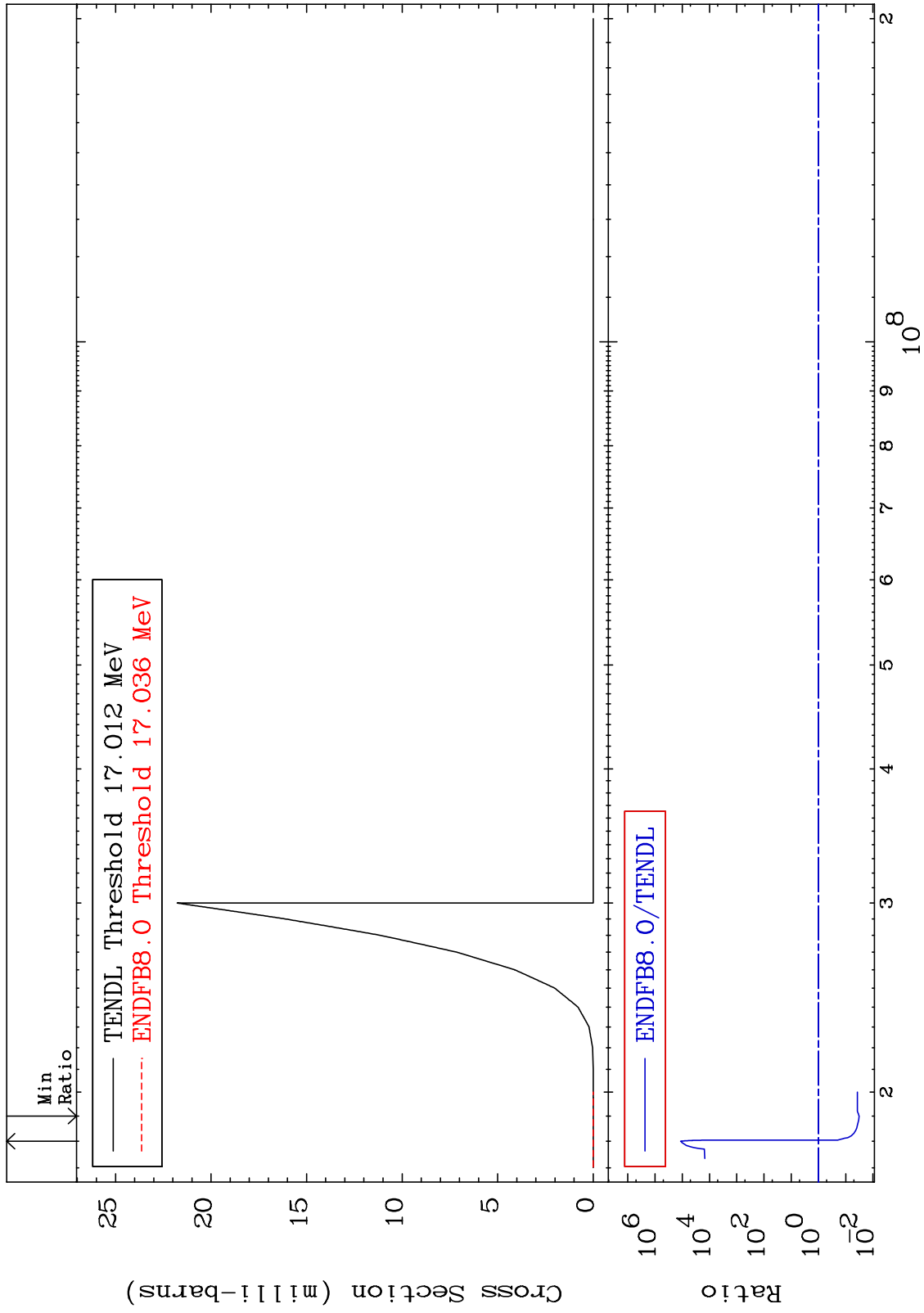
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,2n) p  
Cross Section

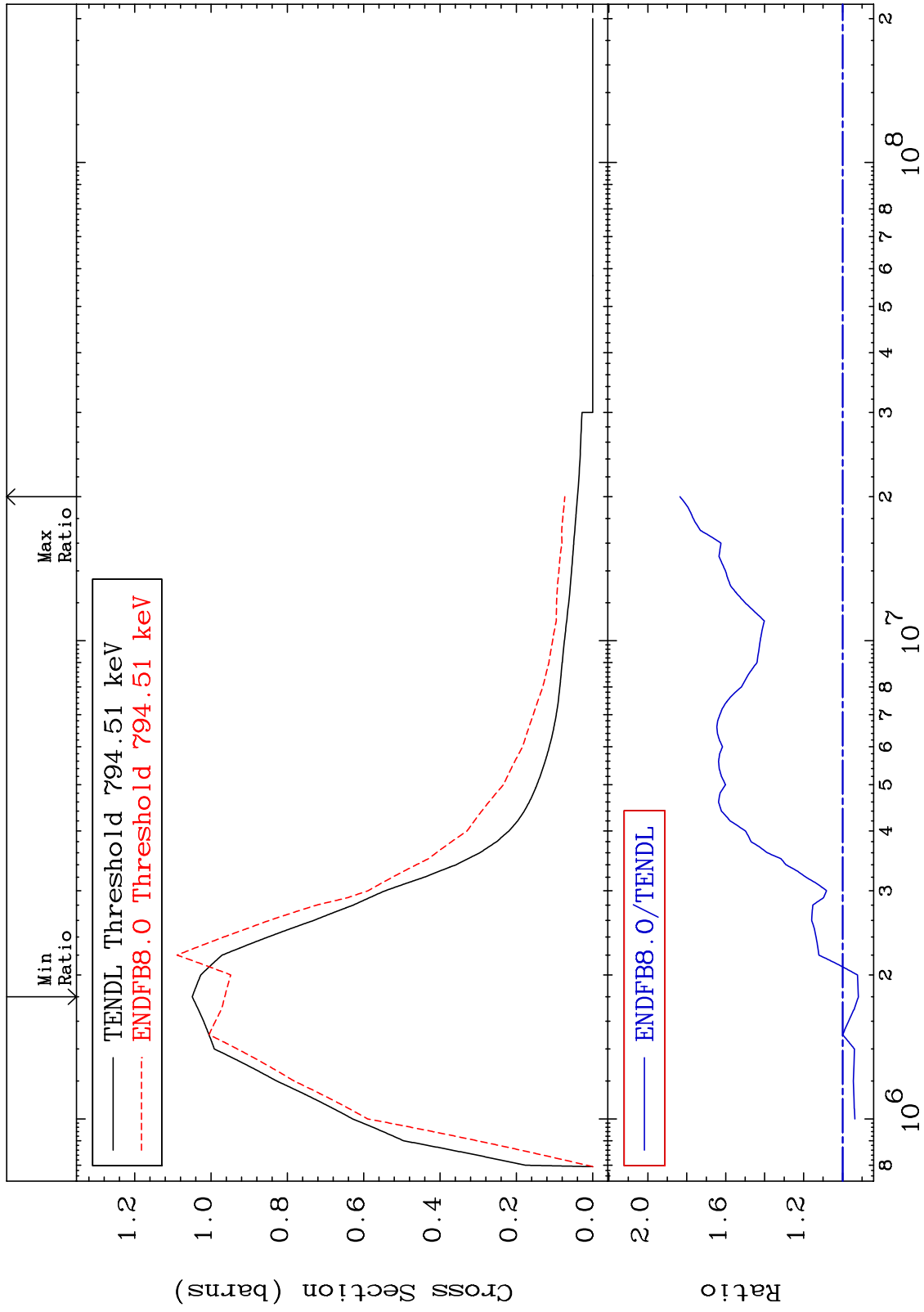
58-Ce-138  
-96.79 To 9999. %



MAT 5831

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

58-Ce-138  
-8.128 To 83.47 %



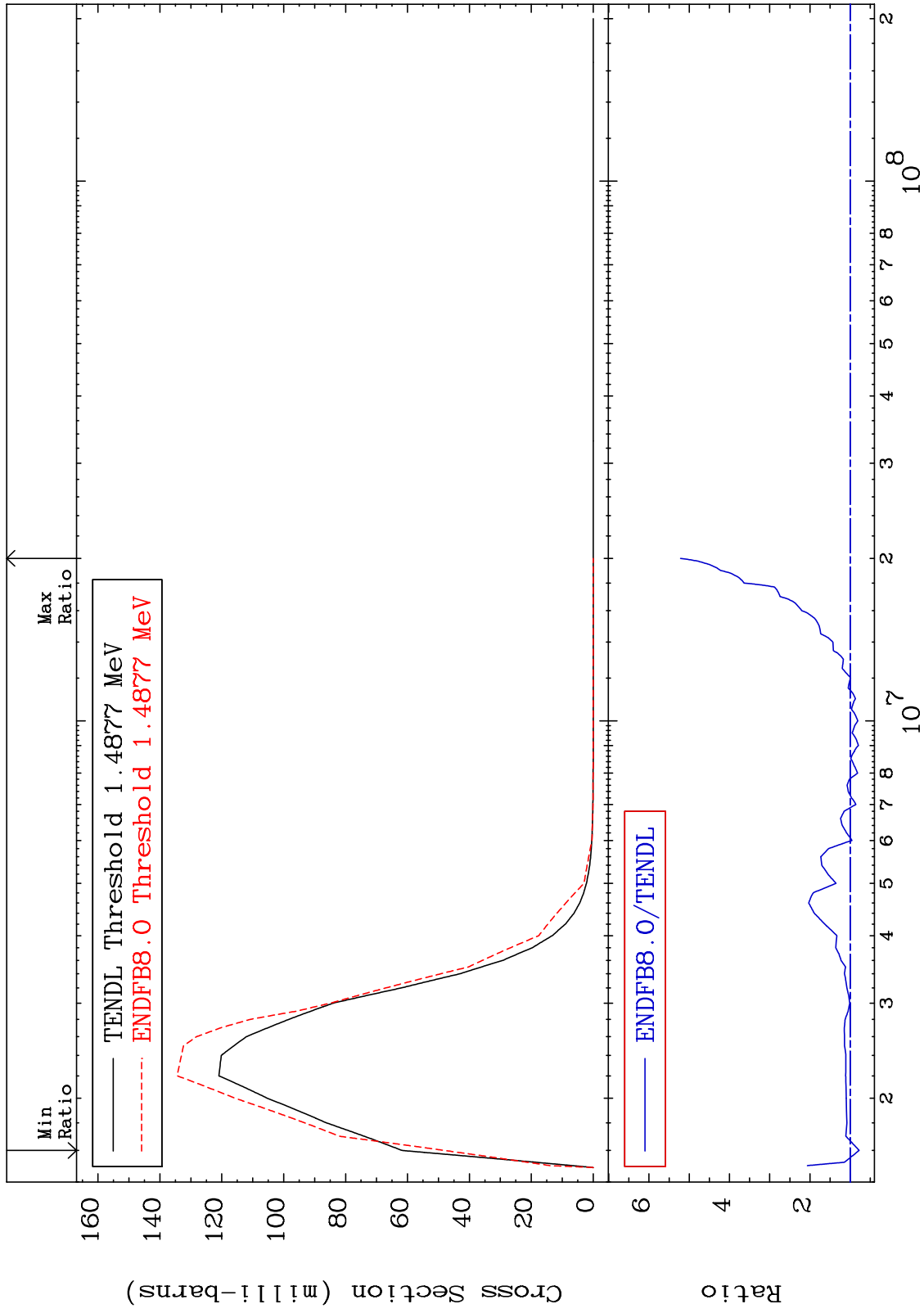
58-Ce-138

Incident Energy (eV)

MAT 5831

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

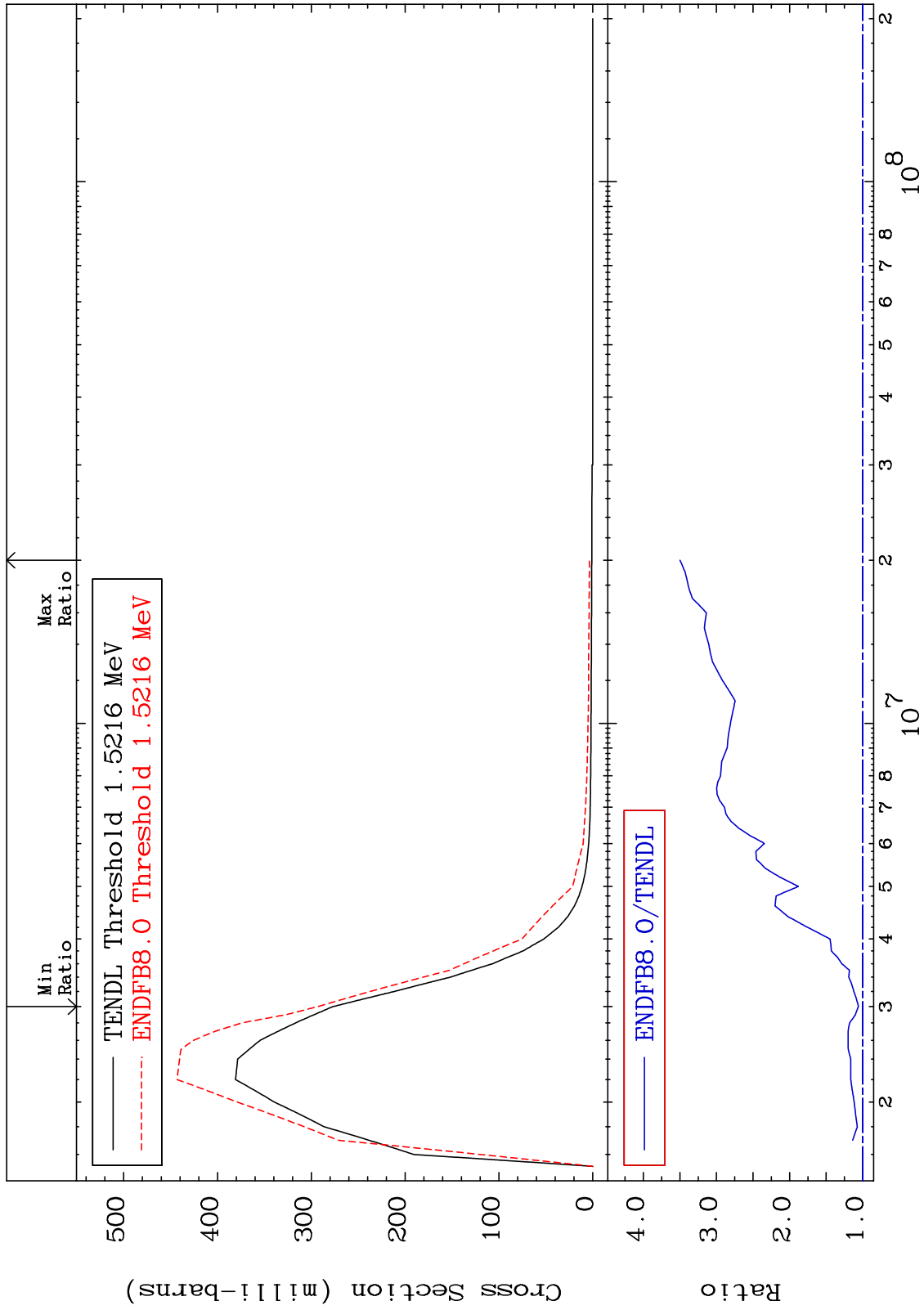
58-Ce-138  
-22.32 To 421.4 %



MAT 5831

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

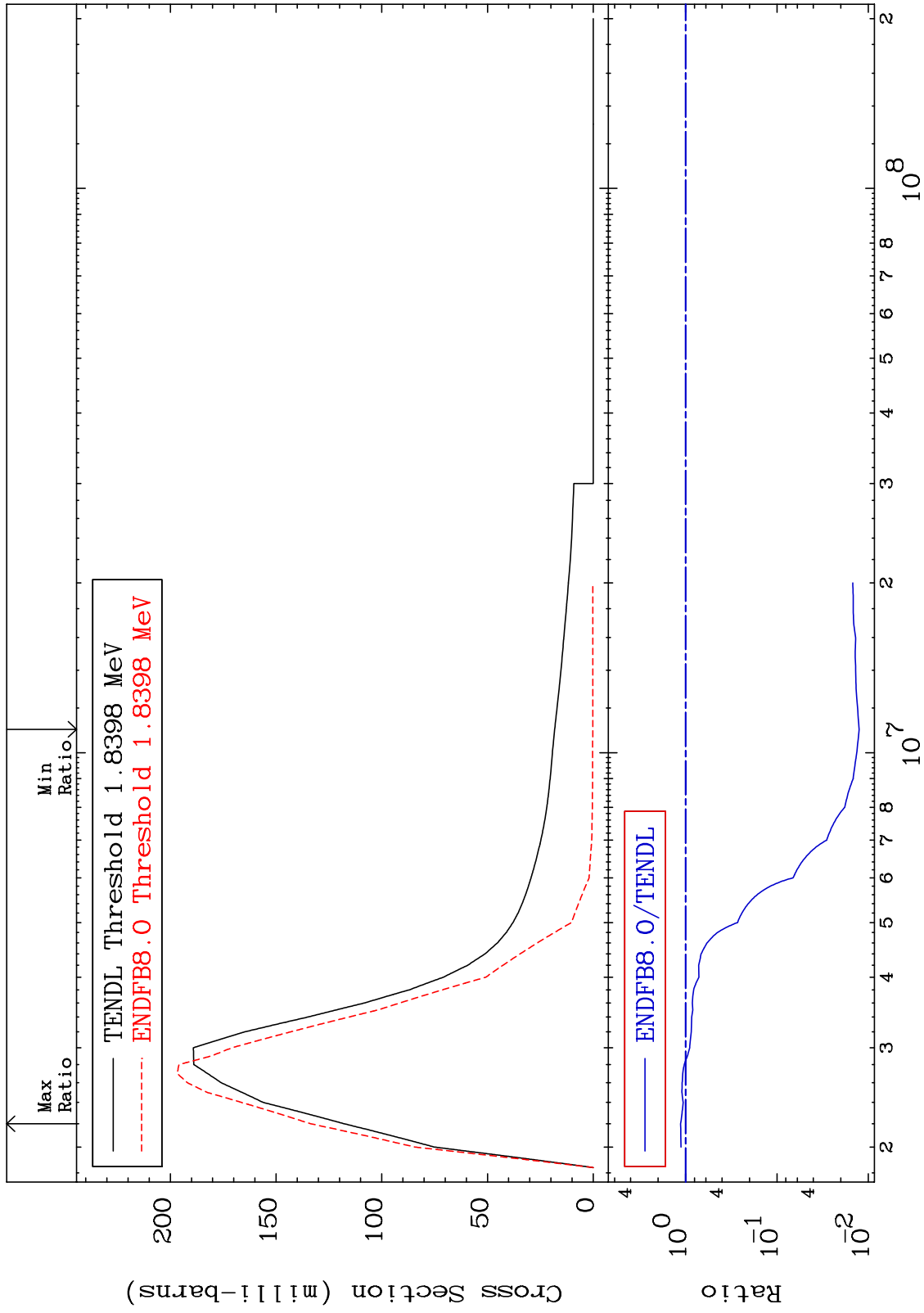
58-Ce-138  
To 249.8 %



MAT 5831

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

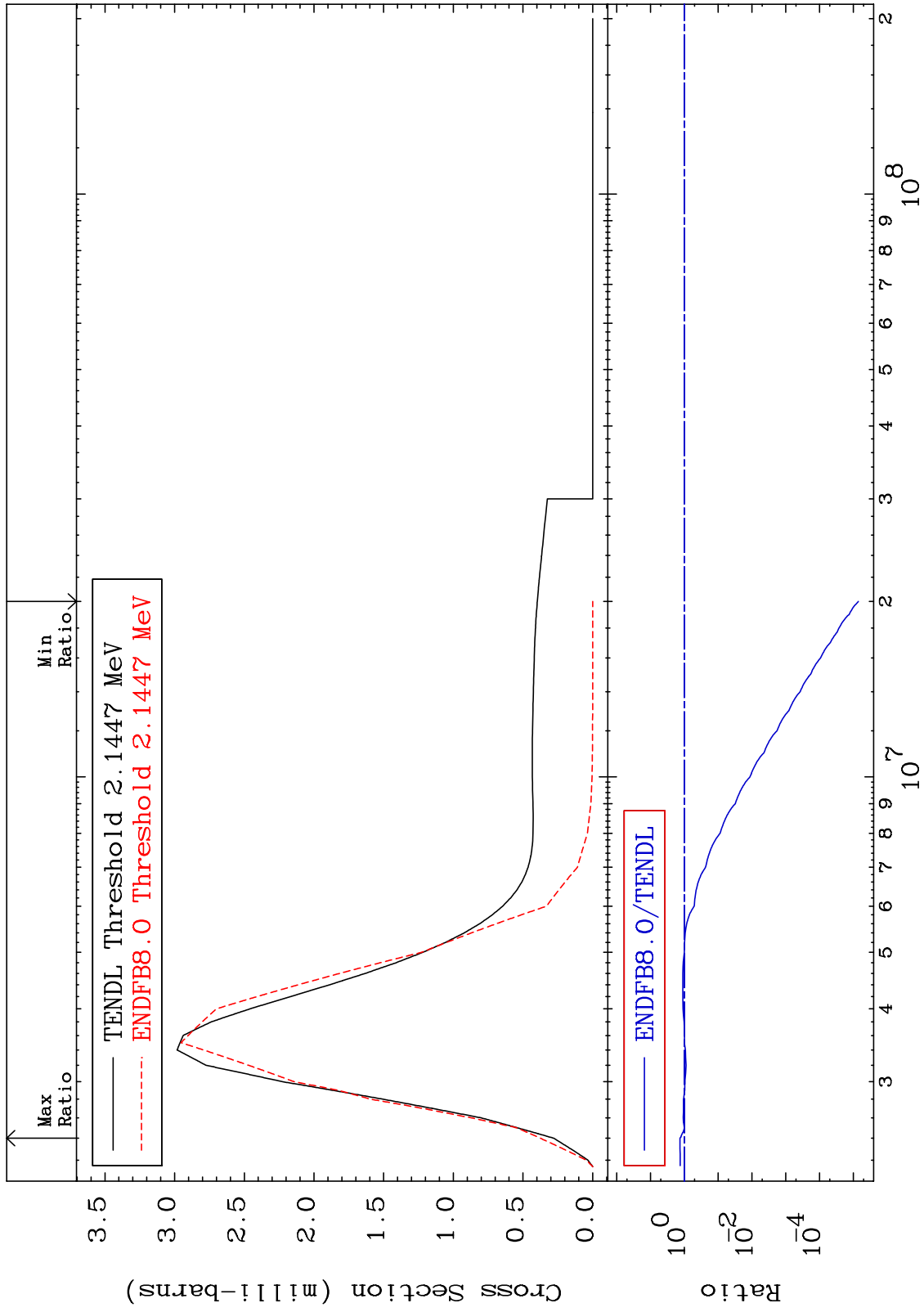
58-Ce-138  
-98.74 To 13.46 %



MAT 5831

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

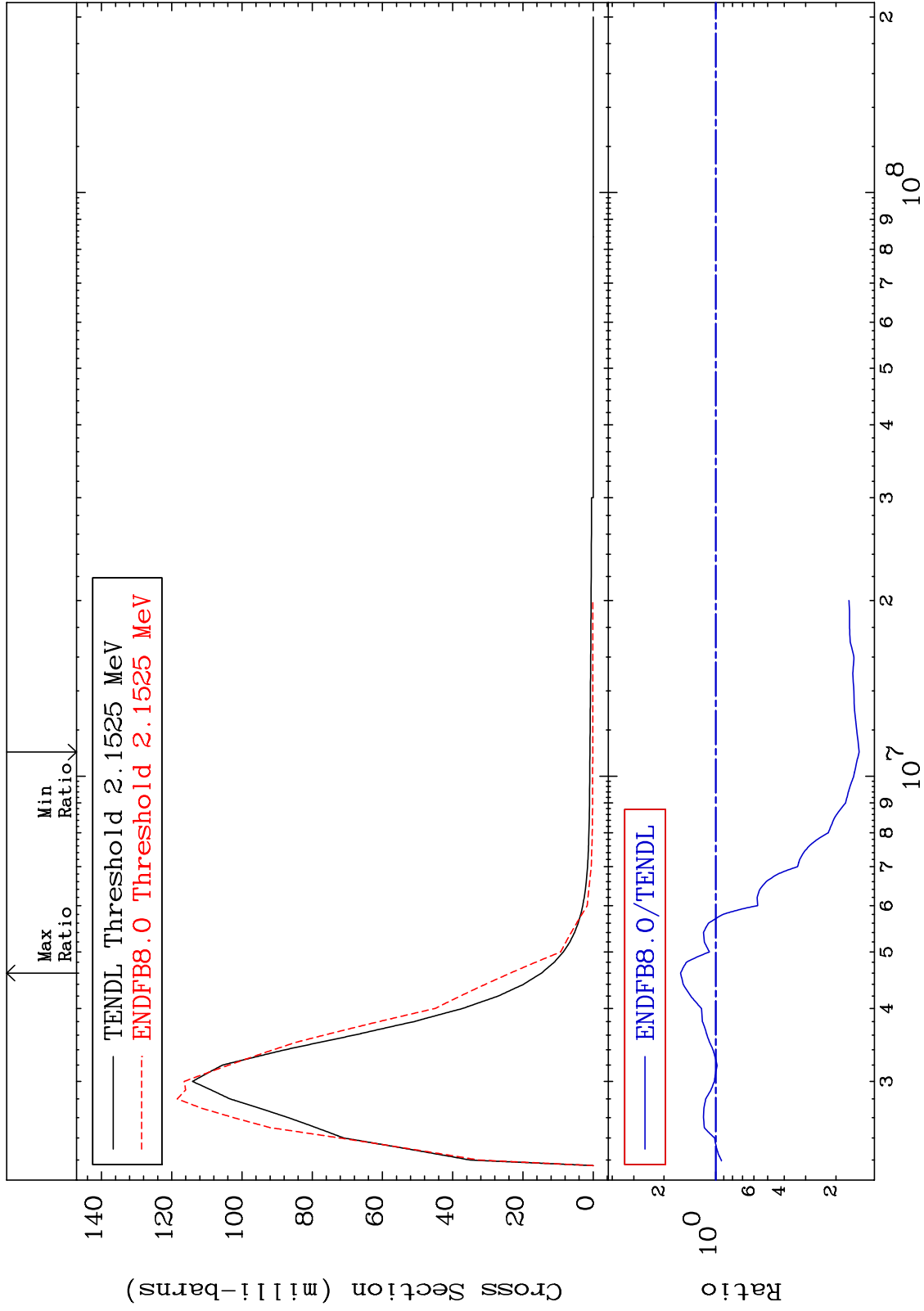
58-Ce-138  
-100.0 To 34.48 %



MAT 5831

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

58-Ce-138  
-85.33 To 60.17 %

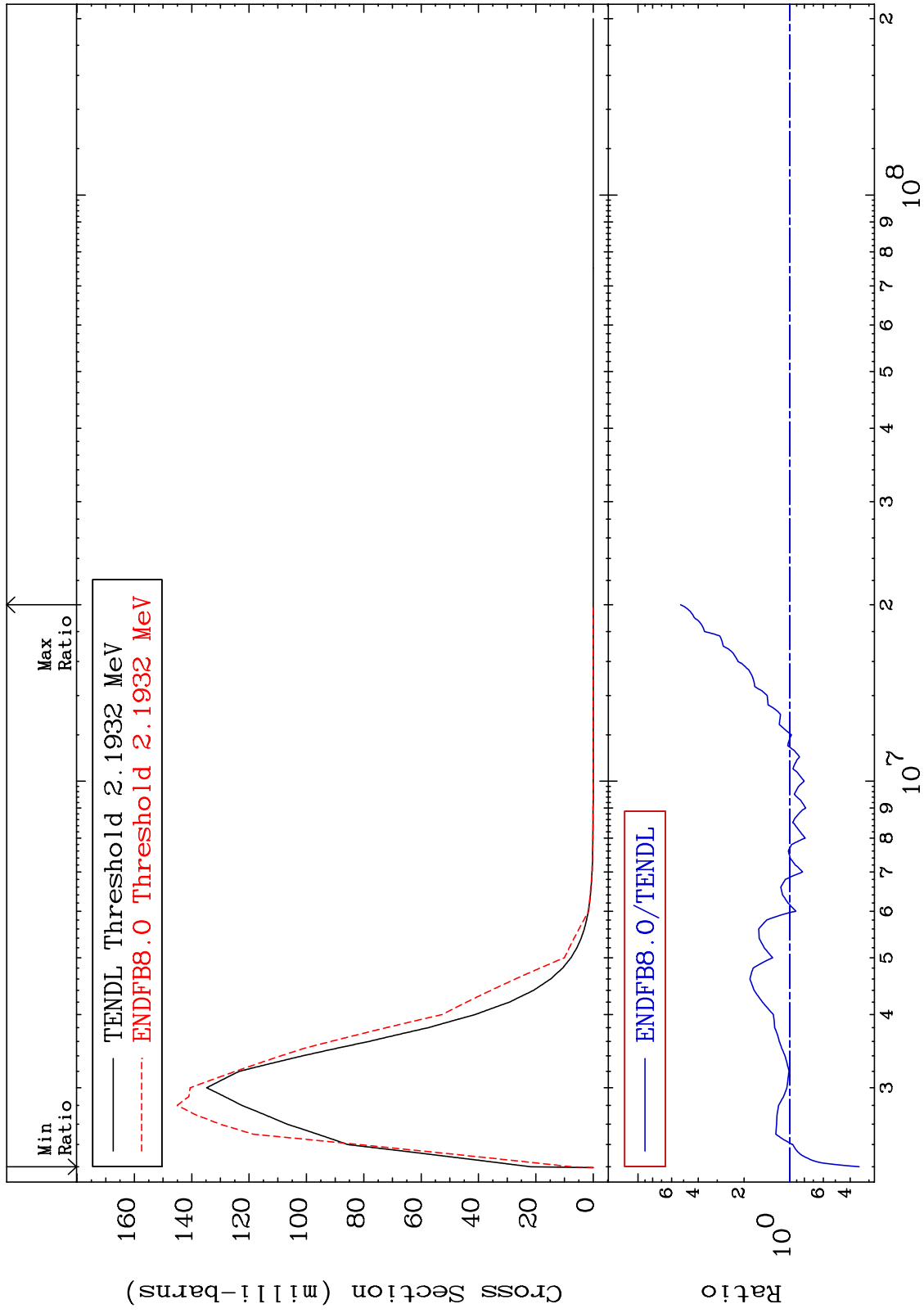




MAT 5831

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

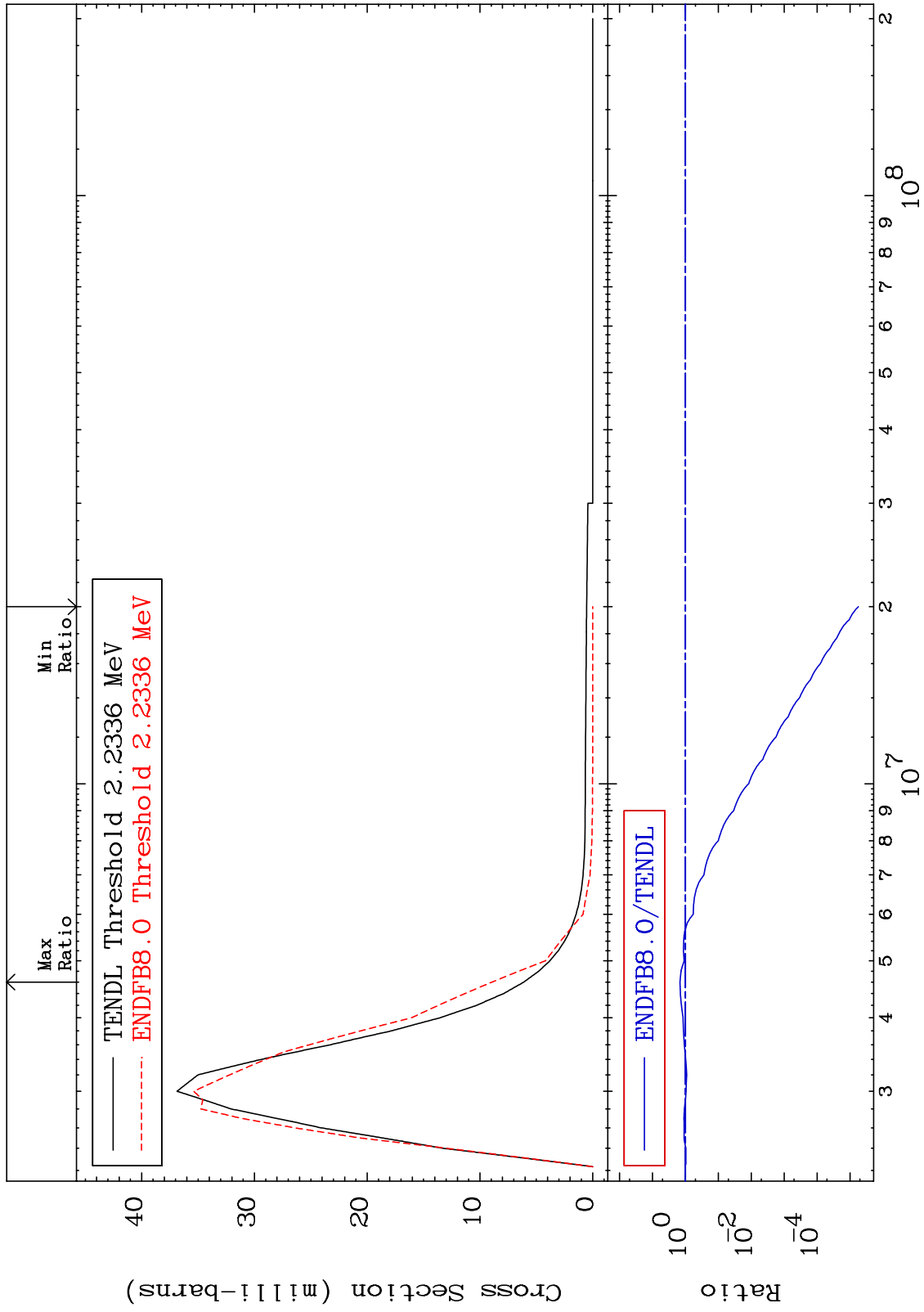
58-Ce-138  
-65.16 To 423.3 %



MAT 5831

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

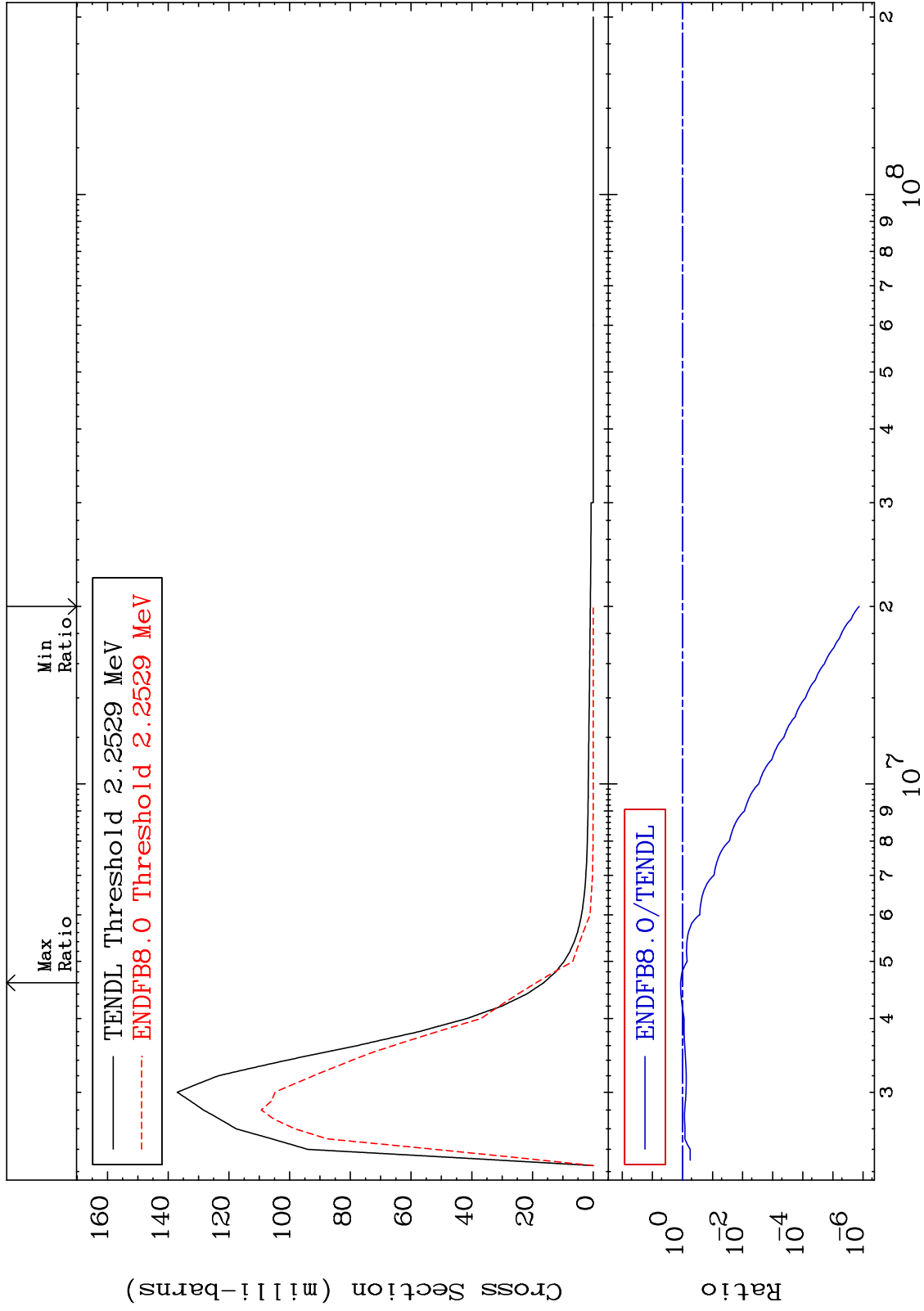
58-Ce-138  
-100.0 To 46.40 %



MAT 5831

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

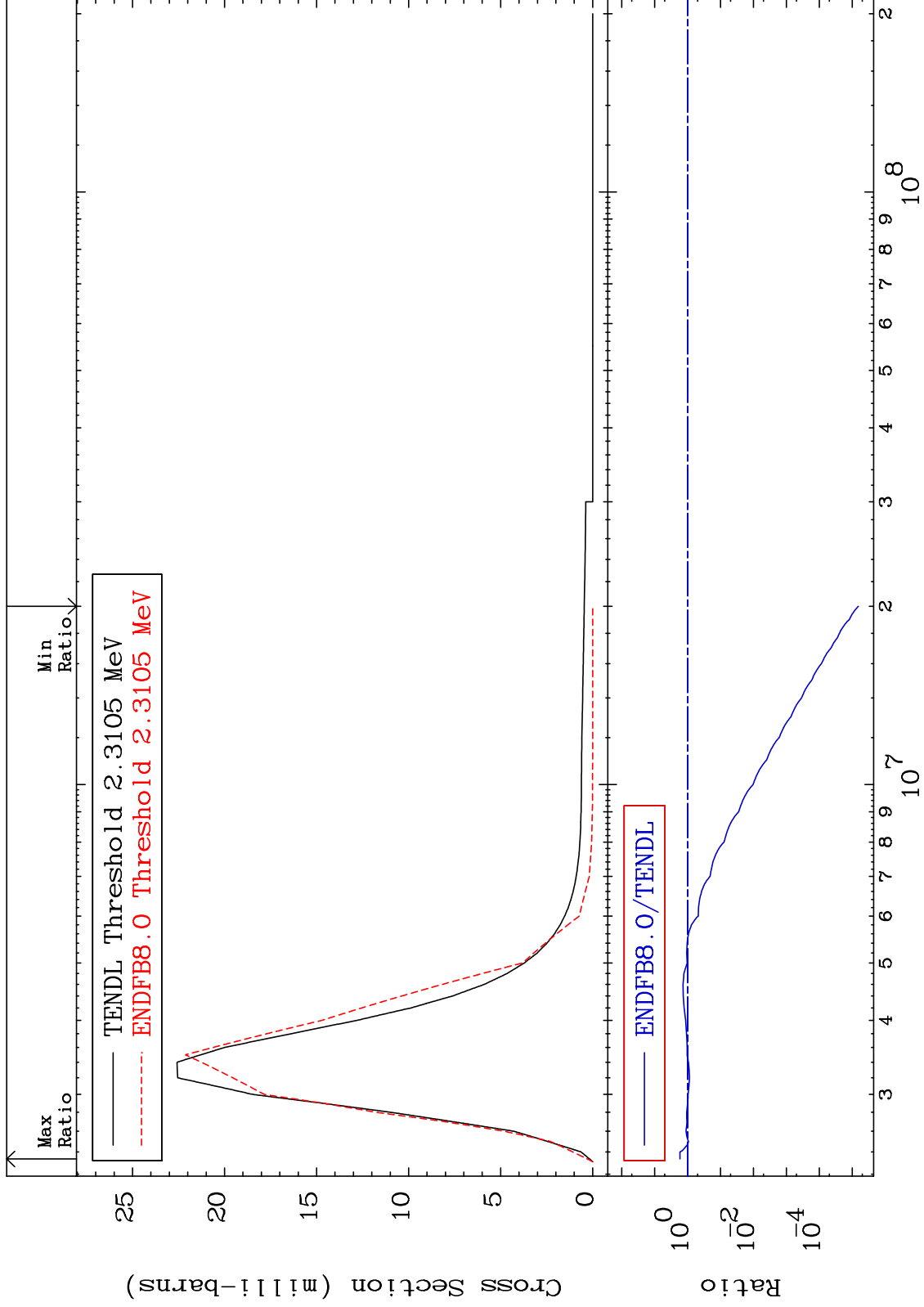
58-Ce-138  
-100.0 To 15.48 %



MAT 5831

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

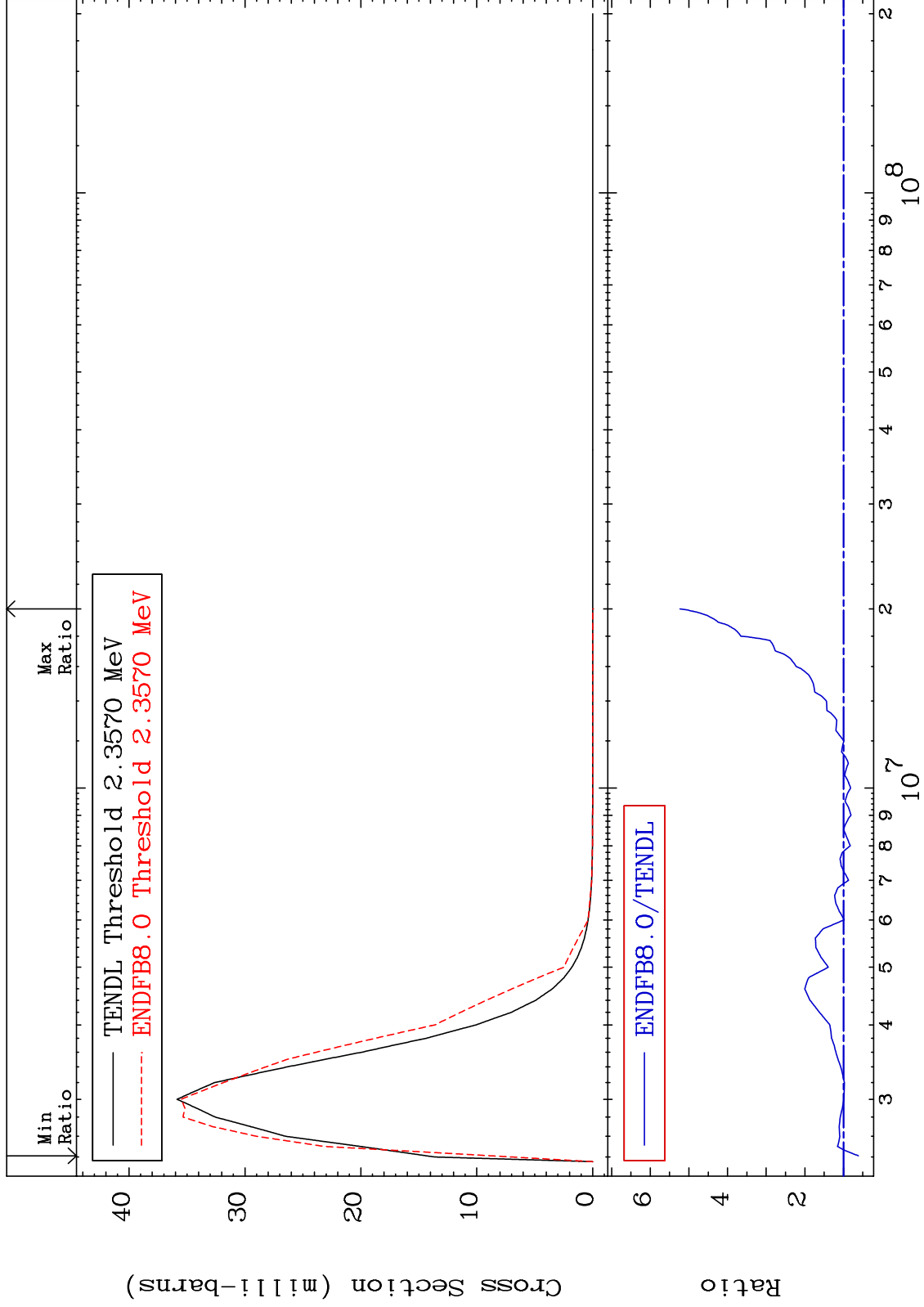
58-Ce-138  
-100.0 To 70.06 %



MAT 5831

MT= 61 (n,n') Level  
Cross Section

58-Ce-138  
-38.69 To 423.0 %



20

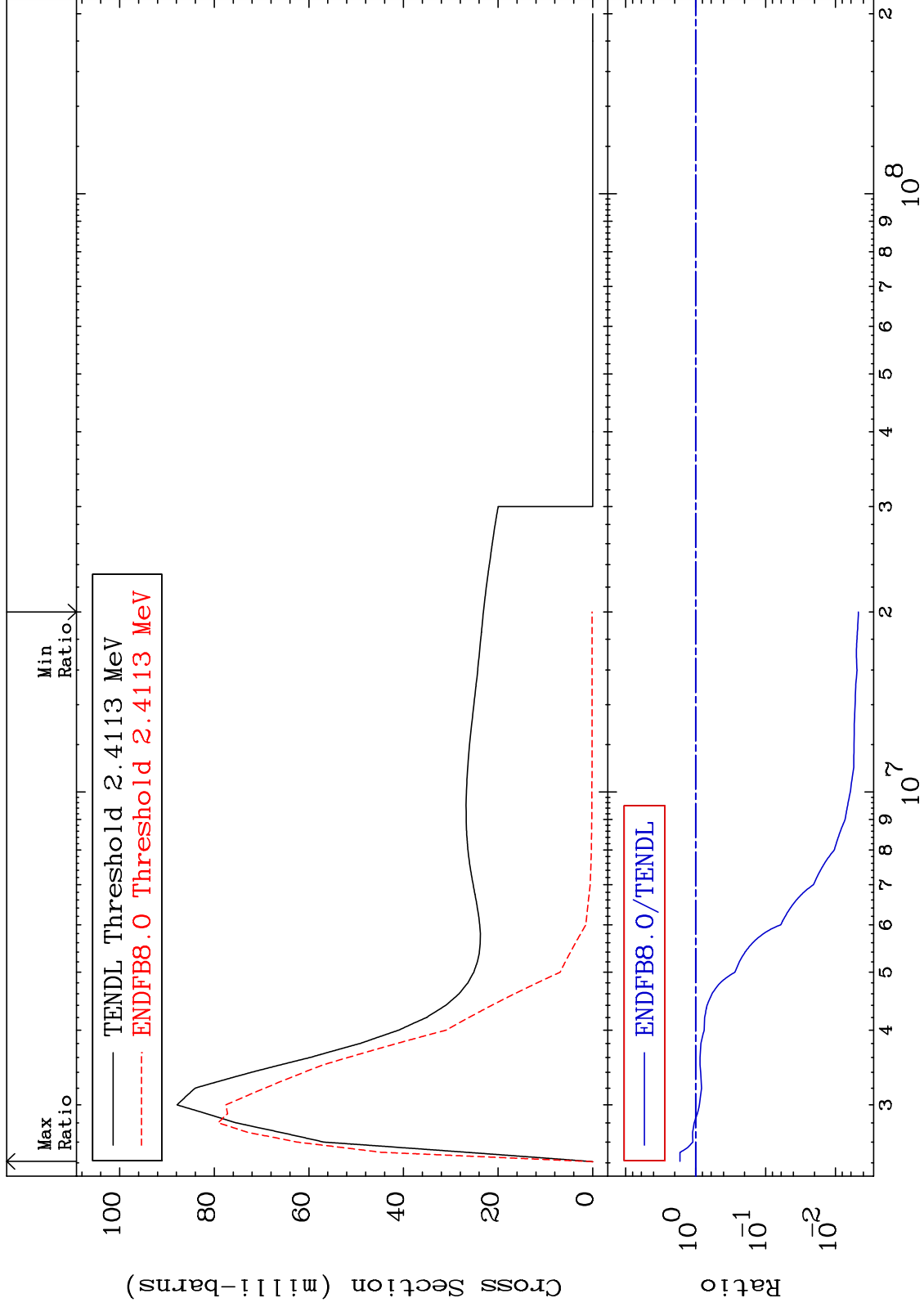
Incident Energy (eV)

58-Ce-138

MAT 5831

MT= 62 (n,n') Level  
Cross Section

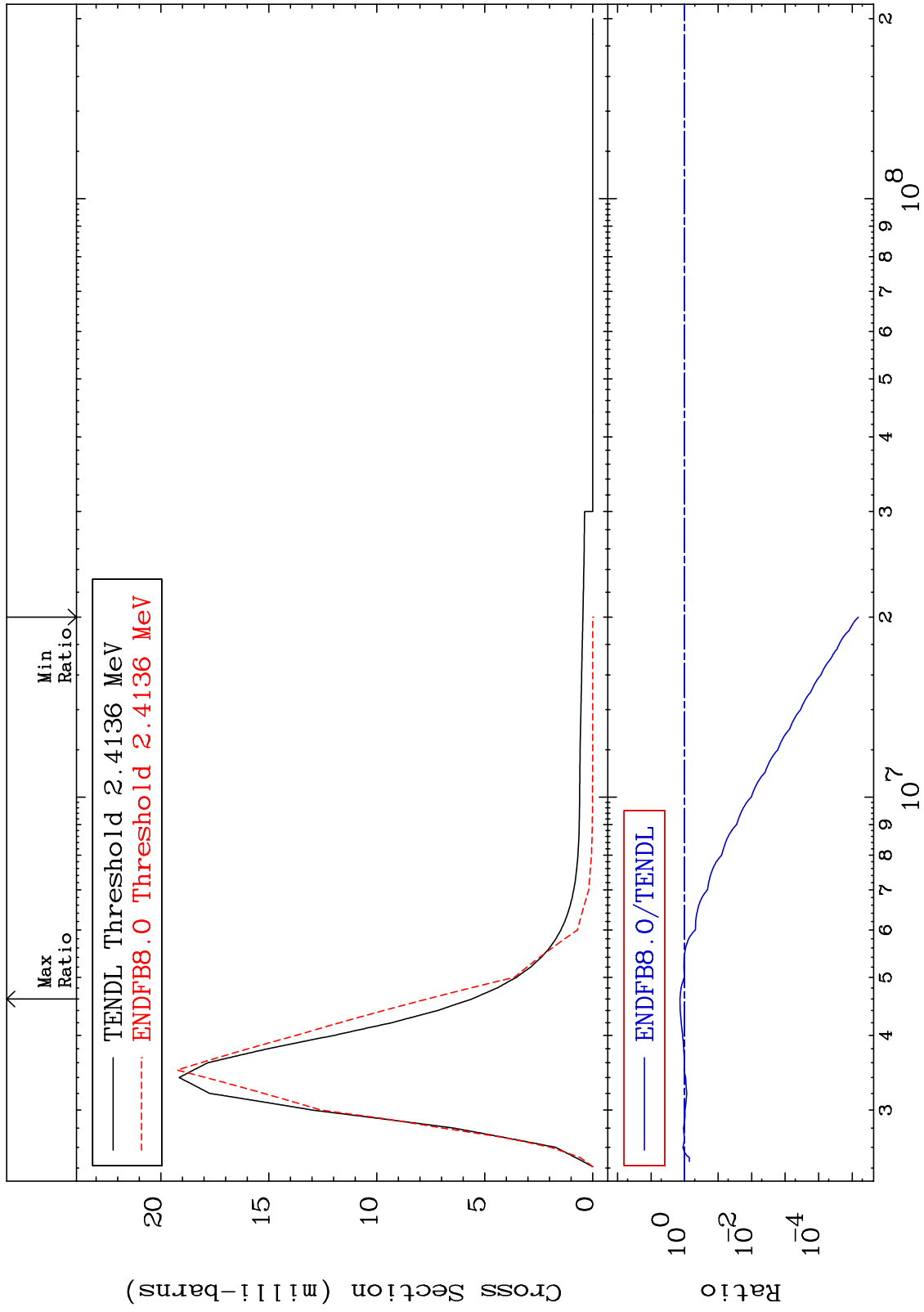
58-Ce-138  
-99.53 To 67.39 %



MAT 5831

MT= 63 (n,n') Level  
Cross Section

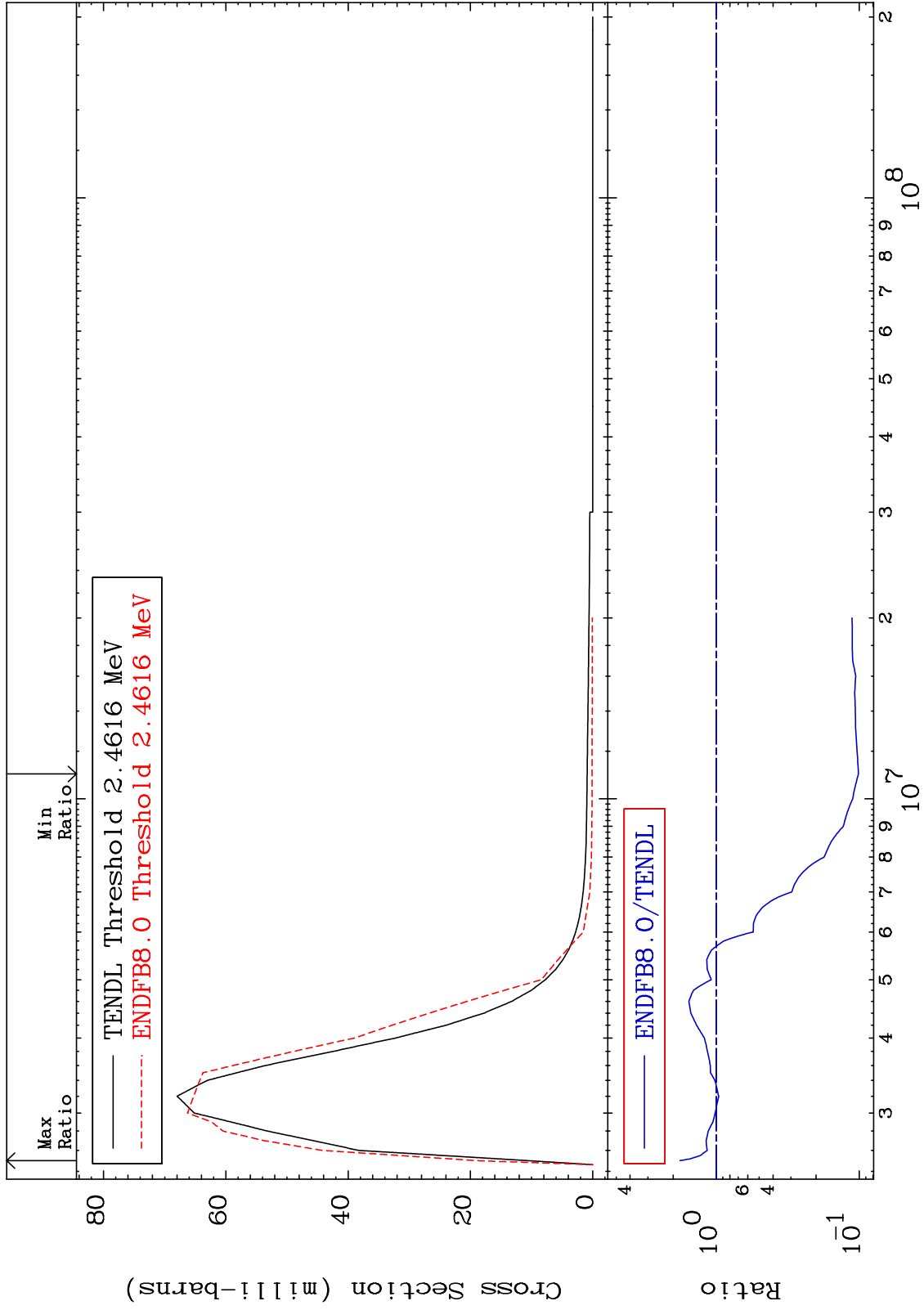
58-Ce-138  
-100.0 To 37.03 %



MAT 5831

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

58-Ce-138  
-89.88 To 78.89 %

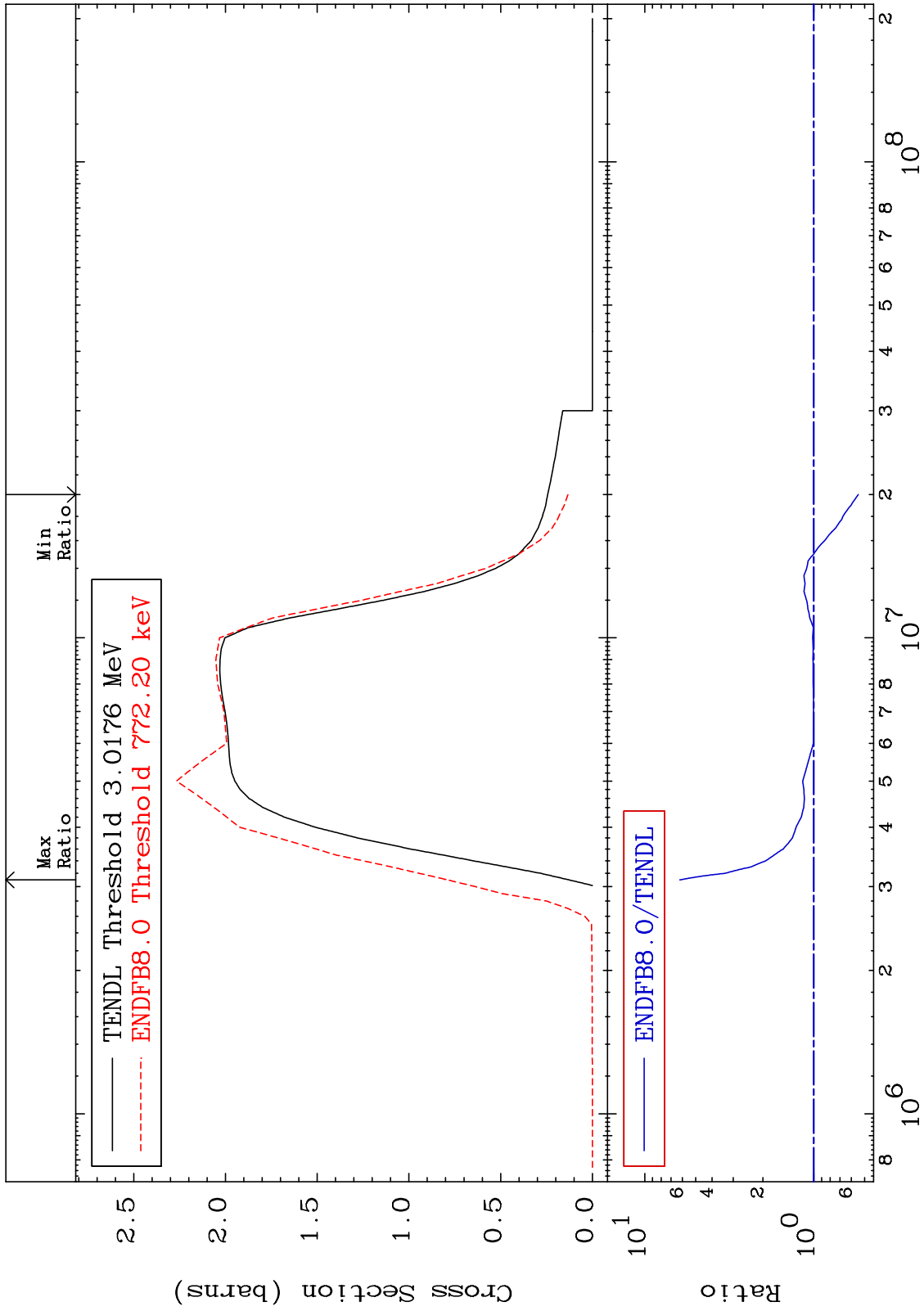




MAT 5831

(n, n') Continuum  
Cross Section

58-Ce-138  
-45.51 To 520.8 %



Incident Energy (eV)

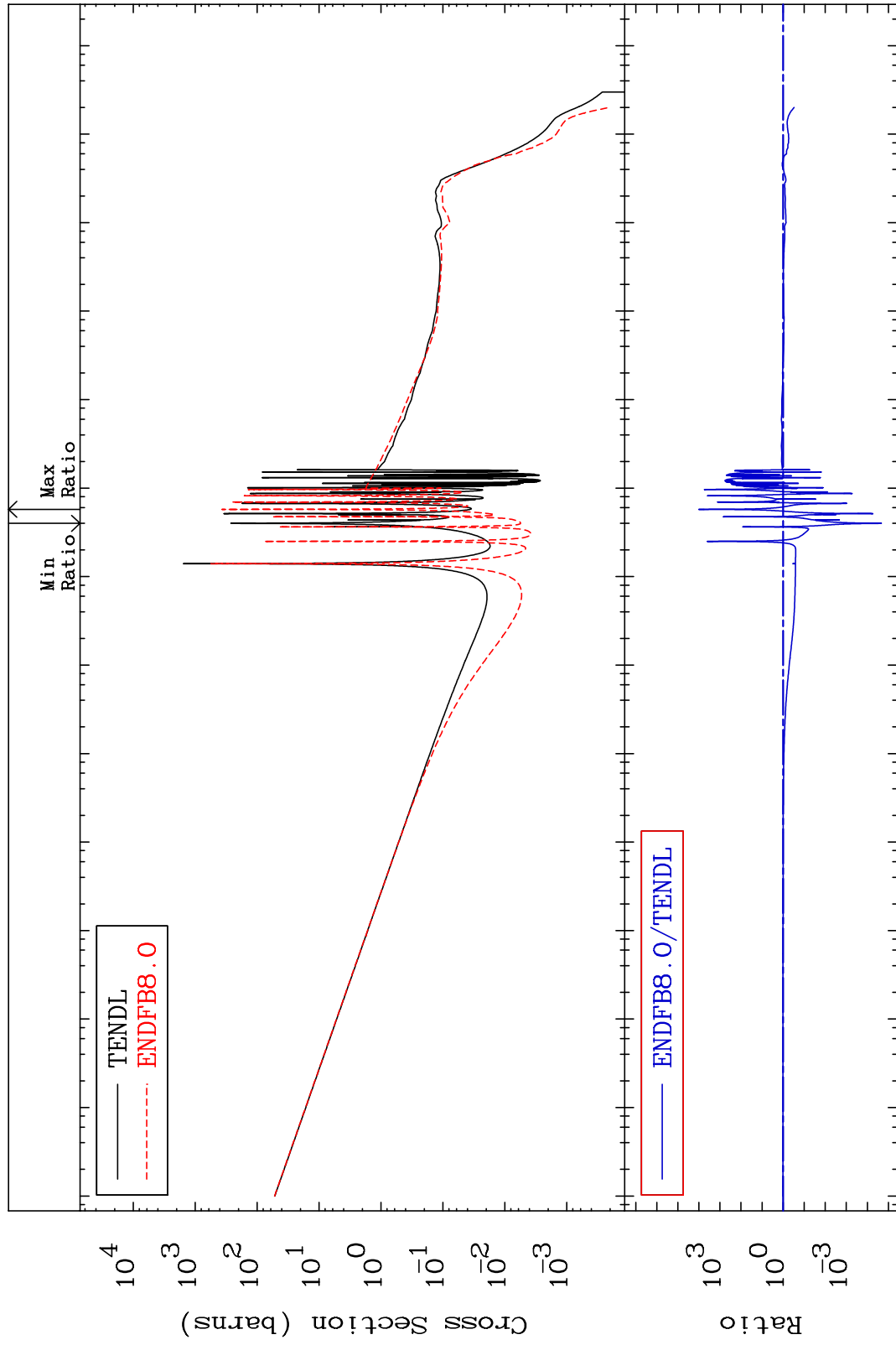
24

58-Ce-138

MAT 5831

(n,  $\gamma$ )  
Cross Section

58-Ce-138  
-100.0 To 9999. %



25

Incident Energy (eV)

58-Ce-138

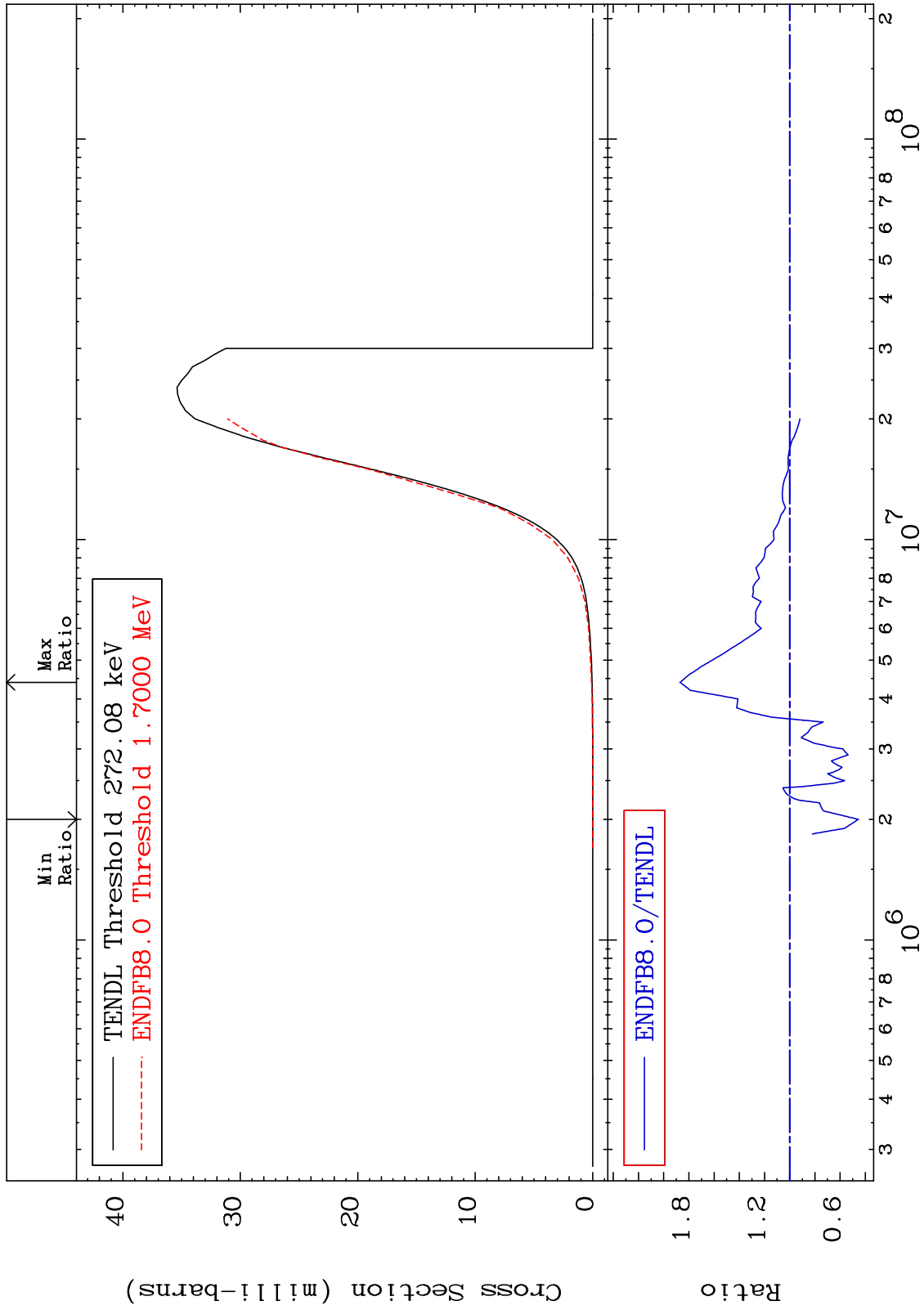
MAT 5831

(n, p)

58-Ce-138

Cross Section

-54.54 To 87.04 %



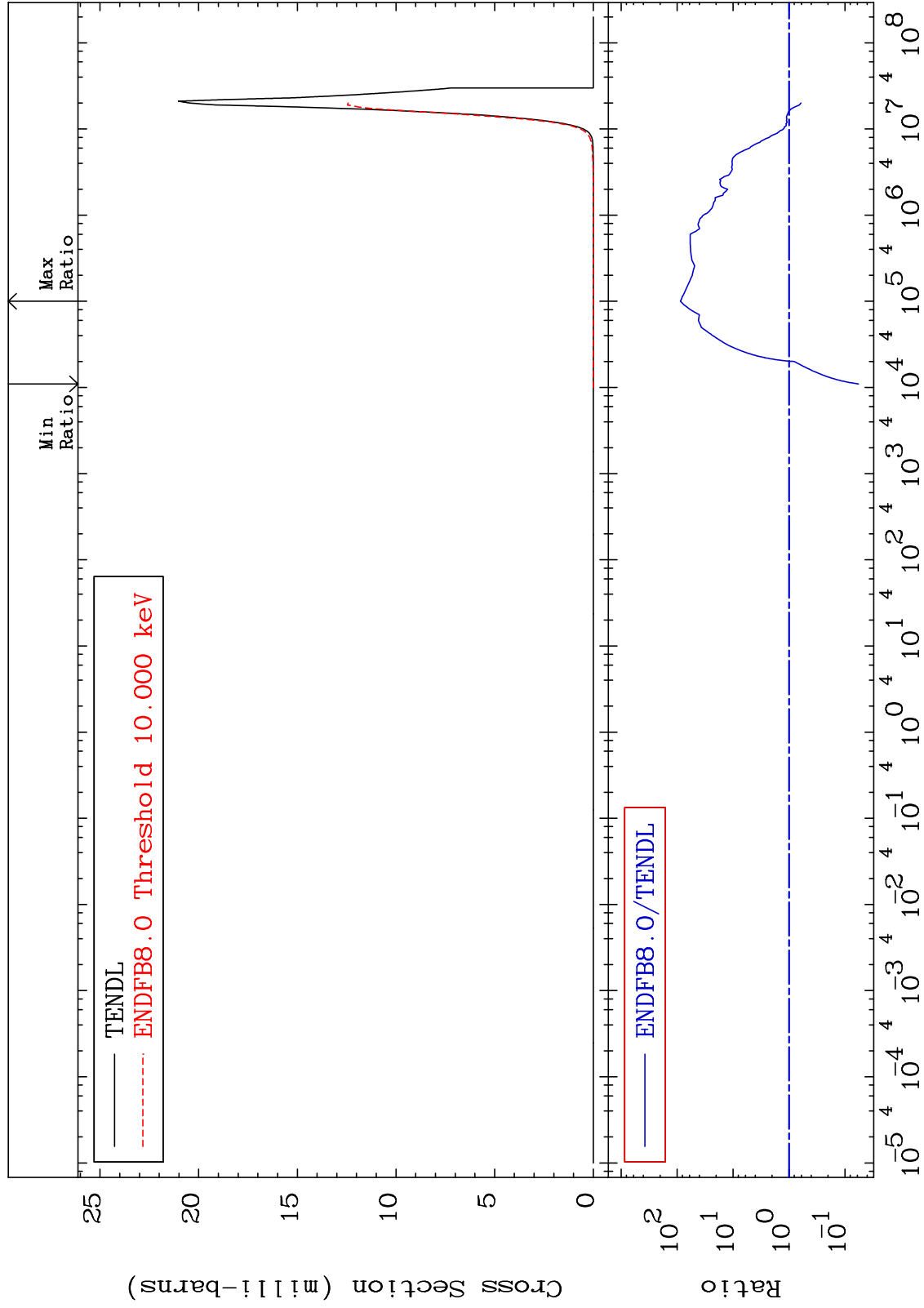
MAT 5831

(n,  $\alpha$ )

58-Ce-138

Cross Section

-94.30 To 8584. %



27

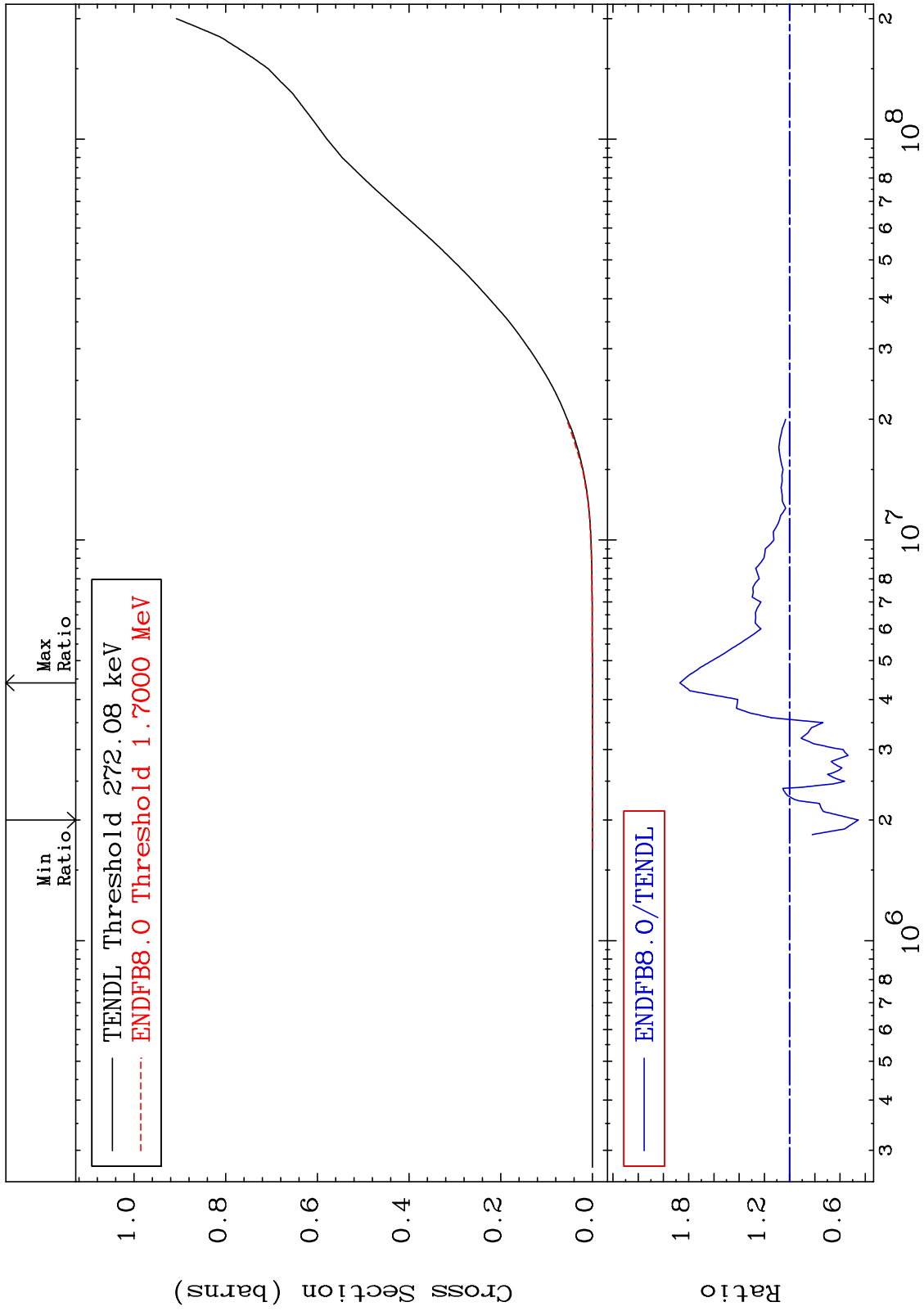
Incident Energy (eV)

58-Ce-138

MAT 5831

Hydrogen Production  
Cross Section

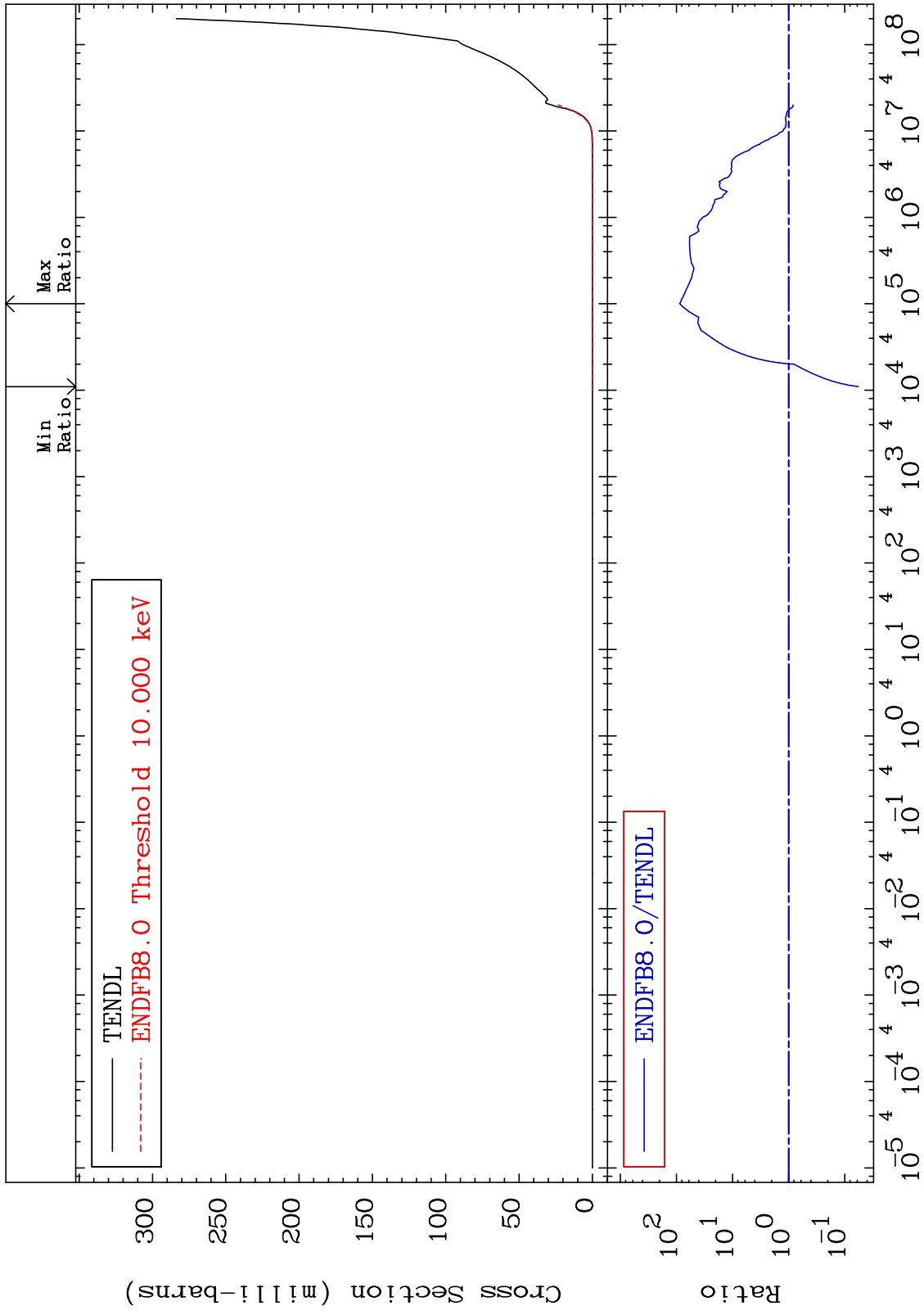
58-Ce-138  
-54.54 To 87.04 %



MAT 5831

He-4 Production  
Cross Section

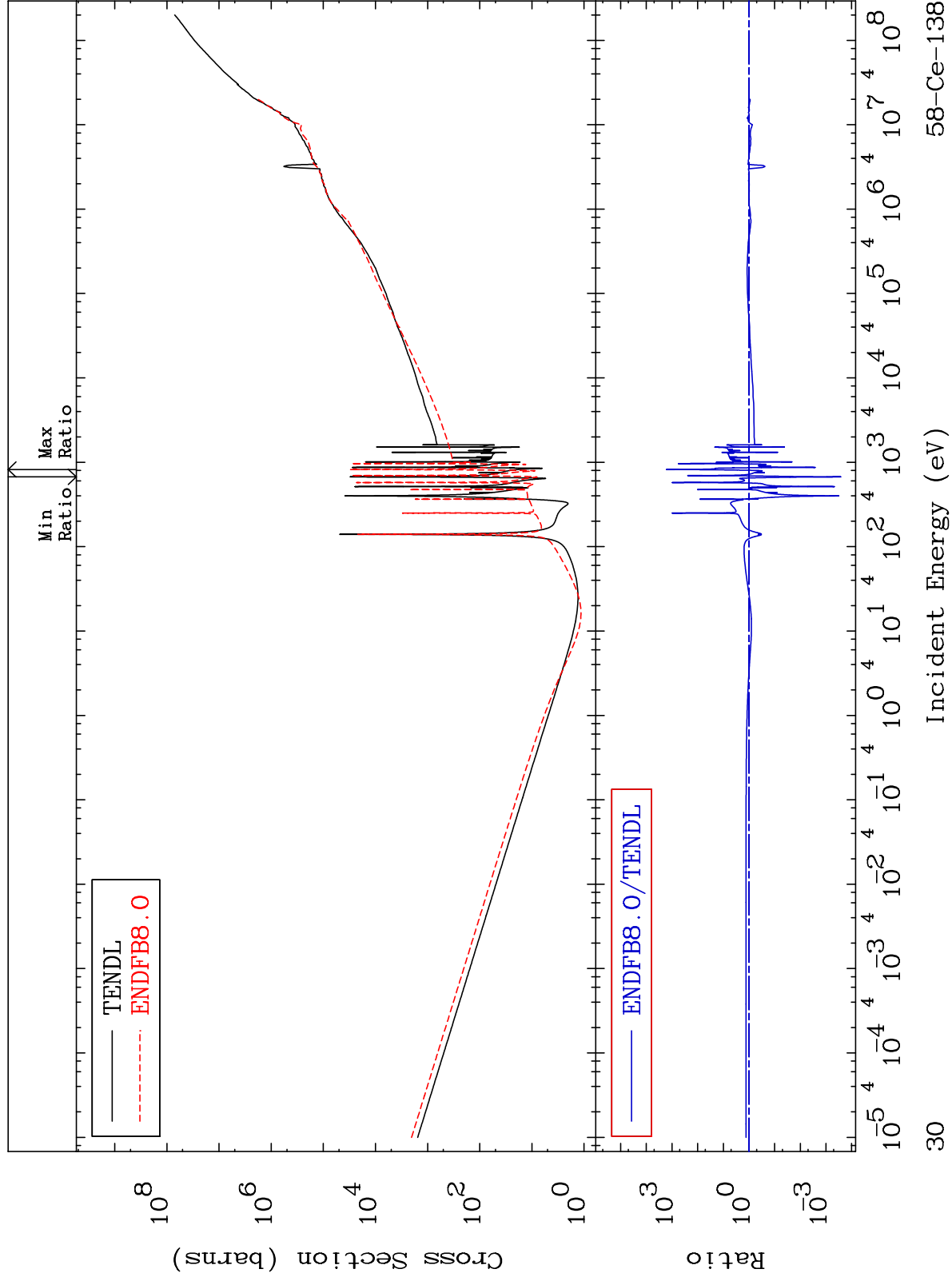
58-Ce-138  
-94.30 To 8584. %



MAT 5831

Kerma total (eV-barns)  
Cross Section

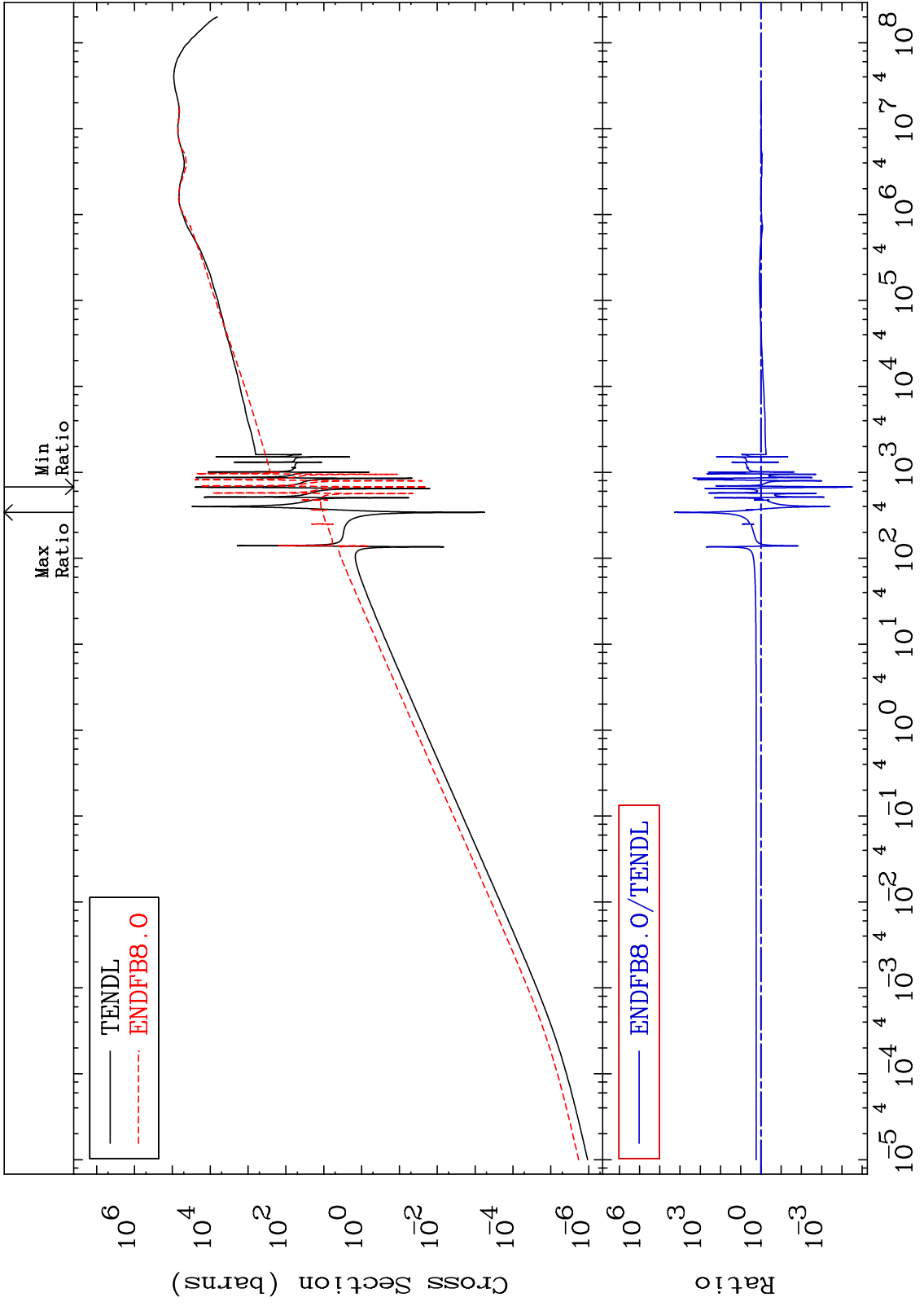
58-Ce-138  
-99.97 To 9999. %



MAT 5831

Kerma elastic  
Cross Section

58-Ce-138  
-100.0 To 9999. %





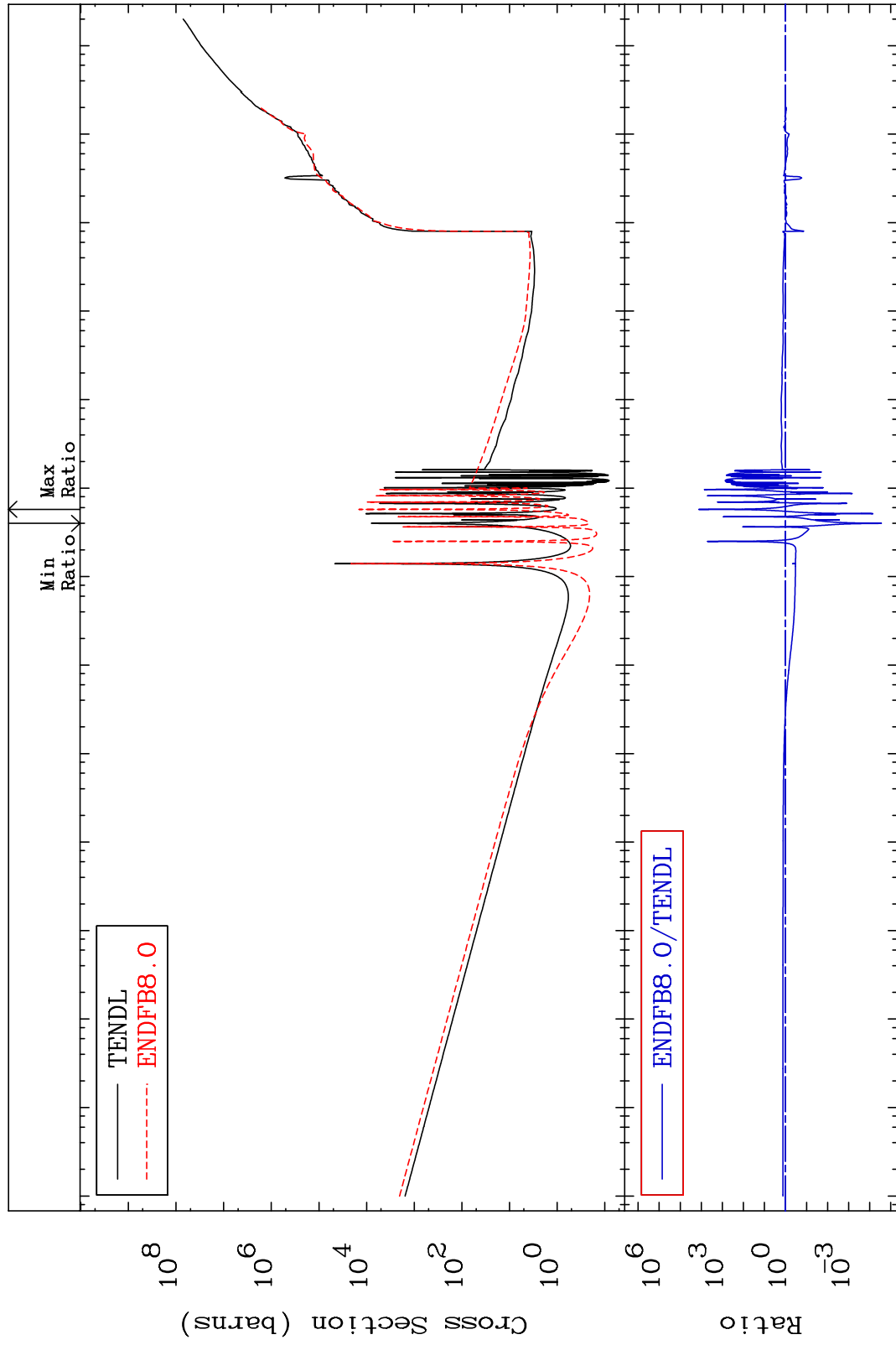
MAT 5831

Kerma non-elastic (all but mt2)

58-Ce-138

-100.0 To 9999. %

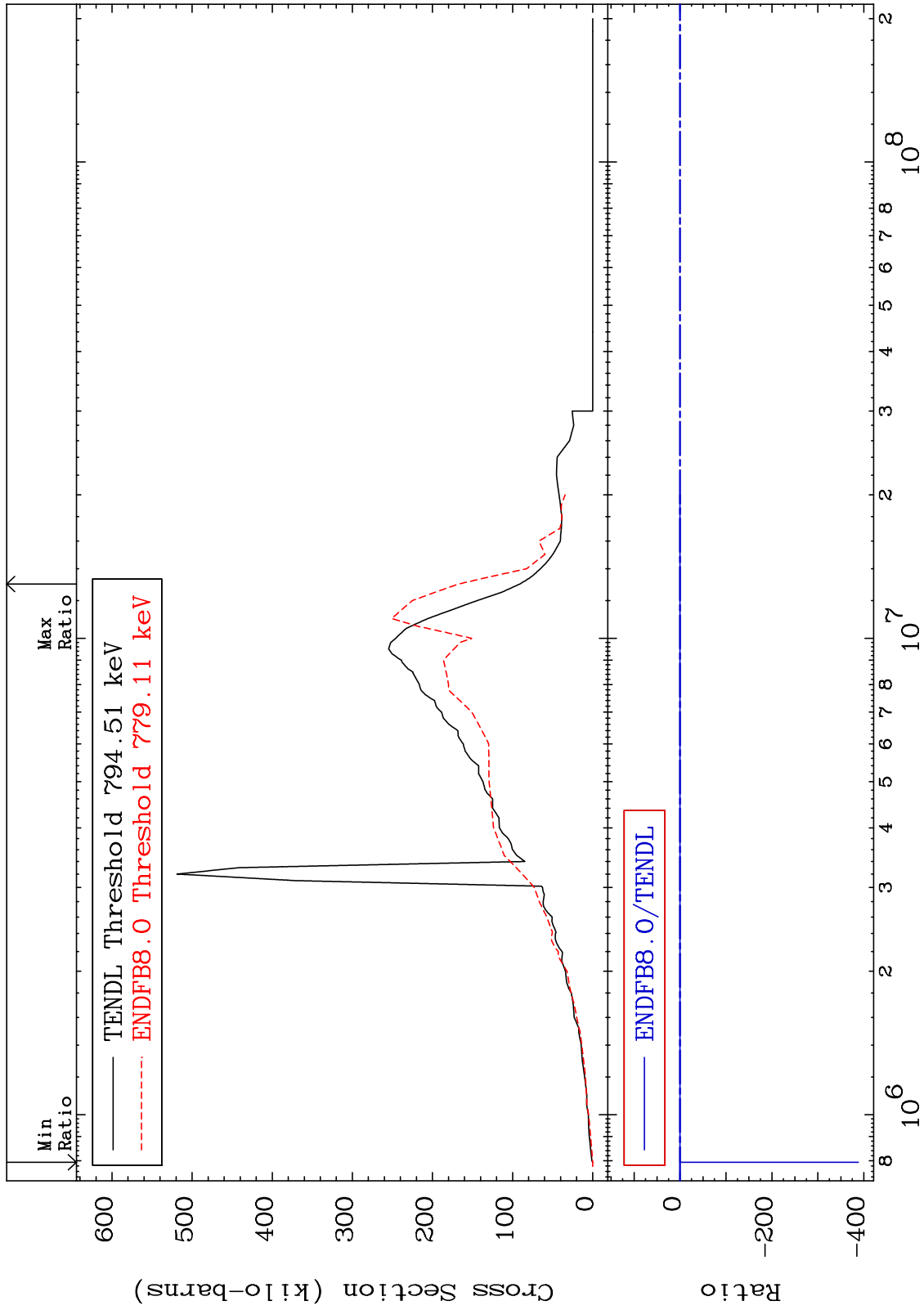
Cross Section



MAT 5831

Kerma inelastic (mt51-91)  
Cross Section

58-Ce-138  
-9999. To 84.03 %



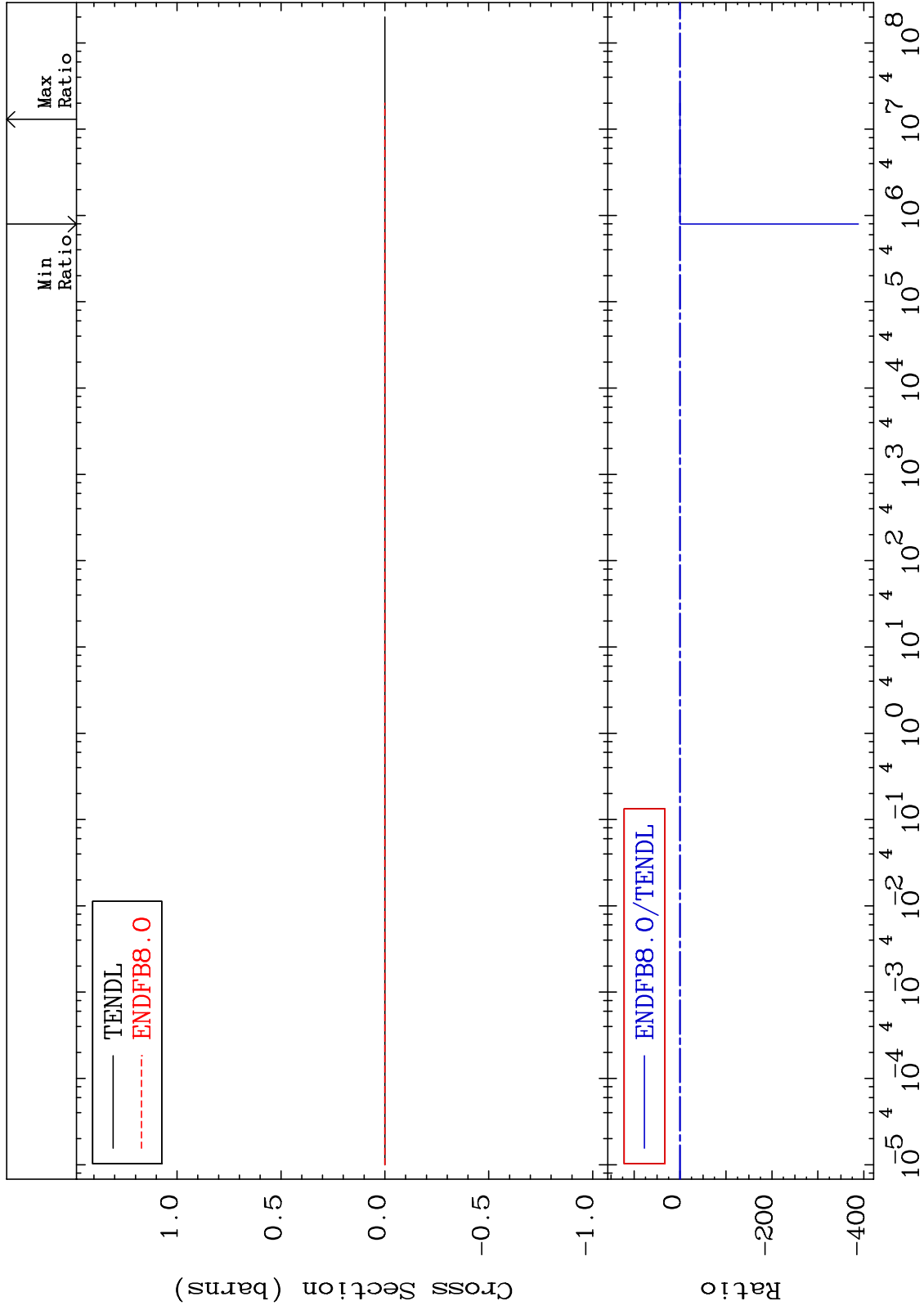
33

58-Ce-138

MAT 5831

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

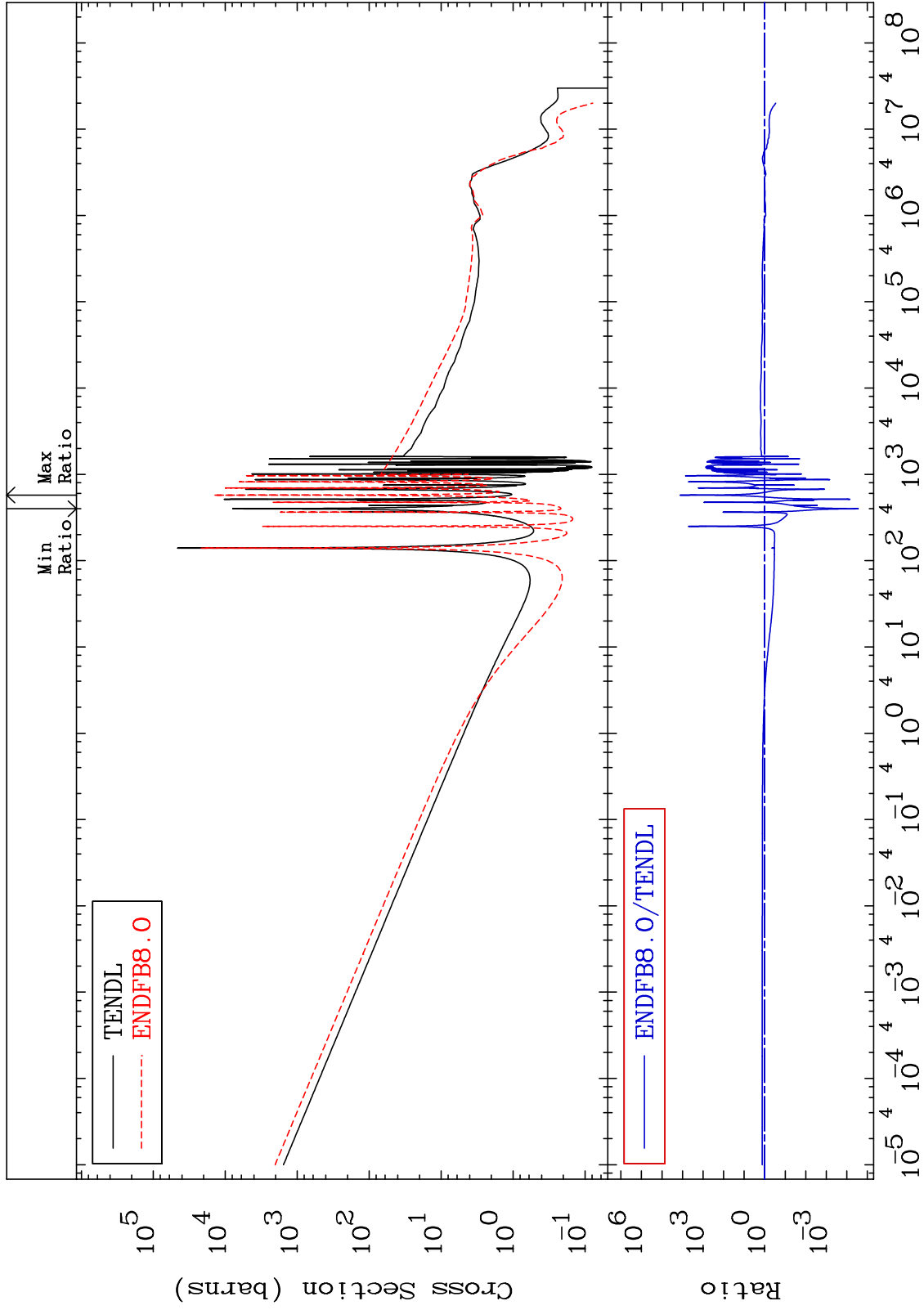
58-Ce-138  
-9999. To 84.03 %



MAT 5831

Kerma capture (mt102)  
Cross Section

58-Ce-138  
-100.0 To 9999. %



35

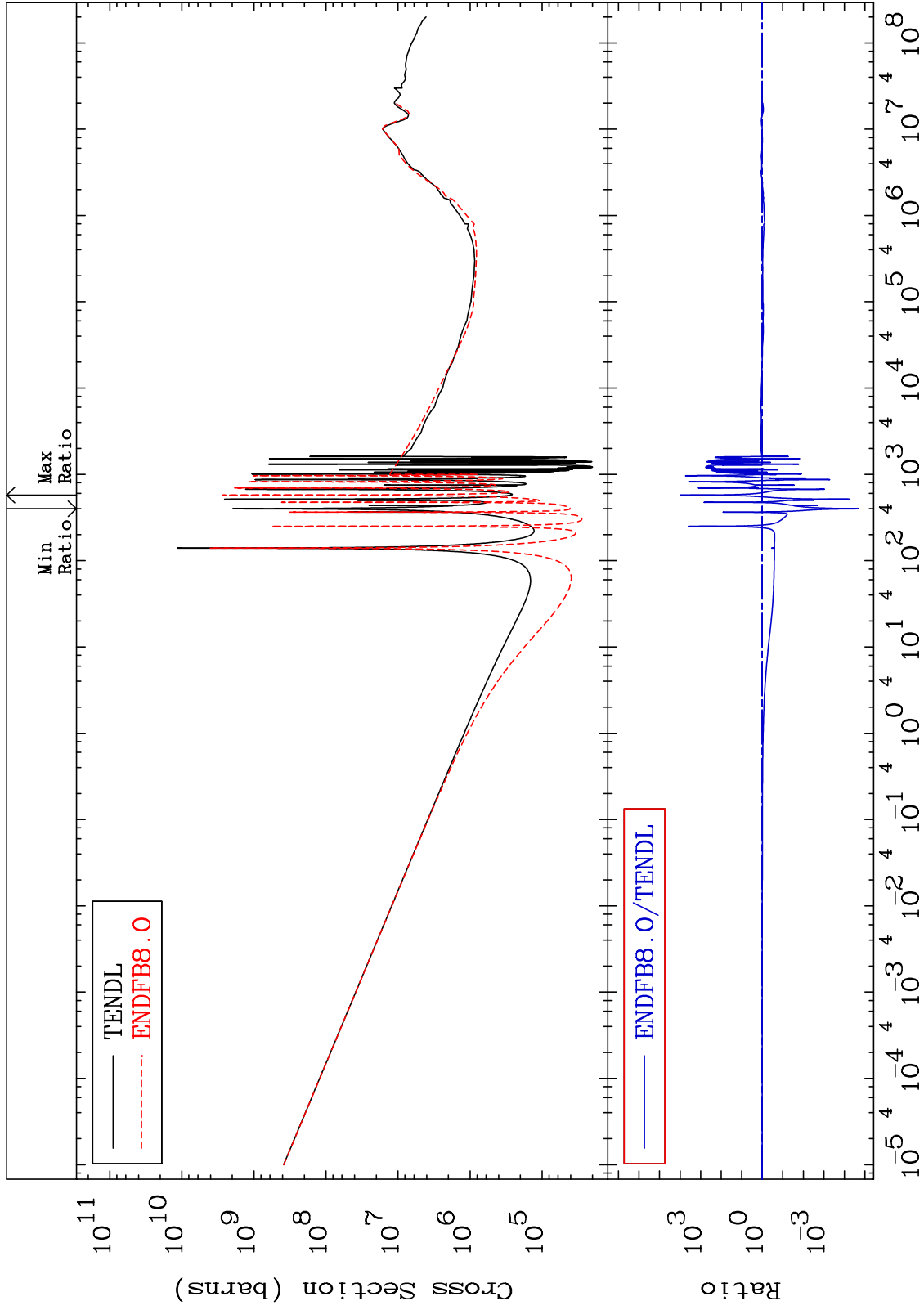
Incident Energy (eV)

58-Ce-138

MAT 5831

Total photon (eV-barns)  
Cross Section

58-Ce-138  
-100.0 To 9999. %



36

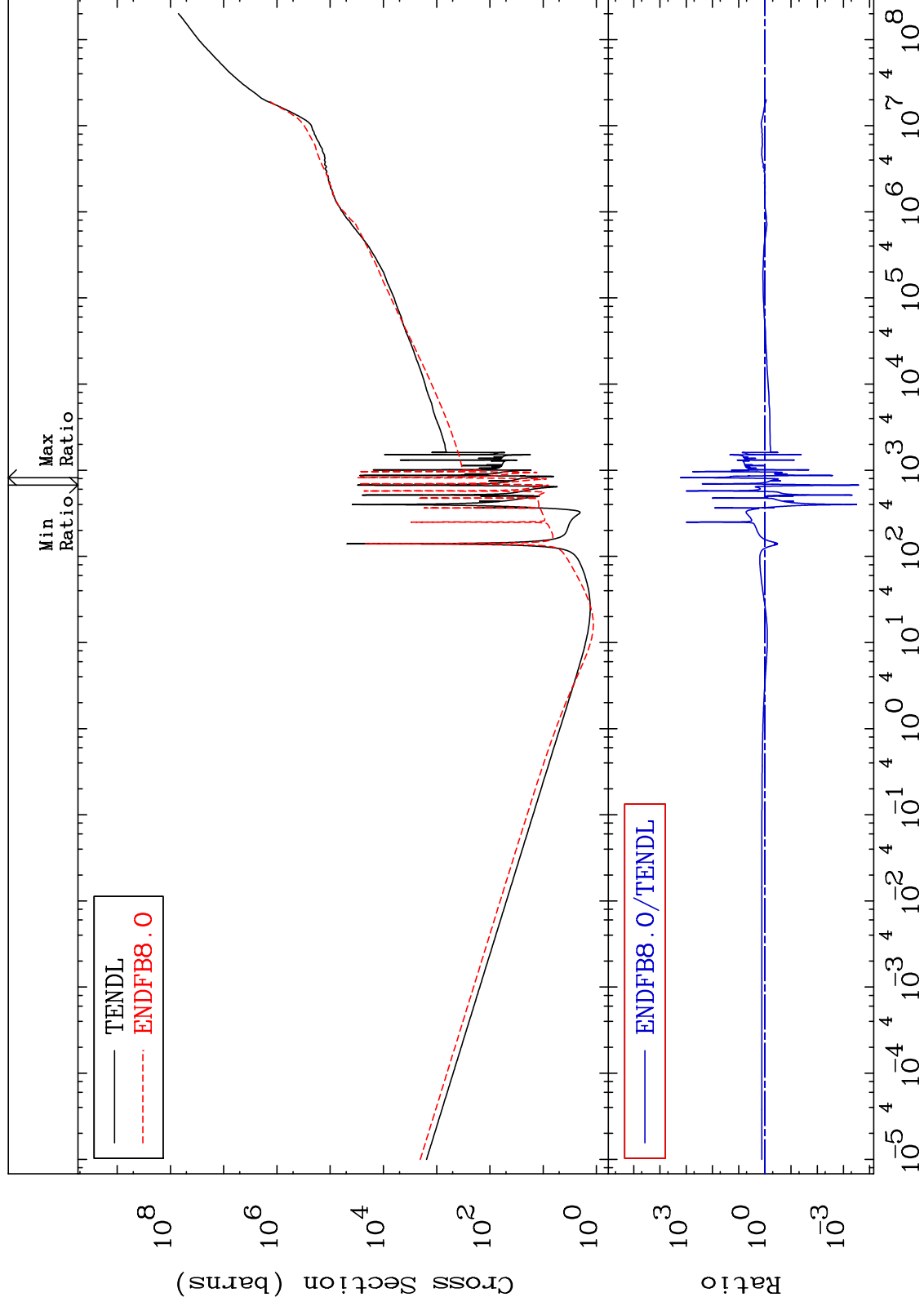
Incident Energy (eV)

58-Ce-138

MAT 5831

Total kinematic kerma (high limit)  
Cross Section

58-Ce-138  
-99.97 To 9999. %



37

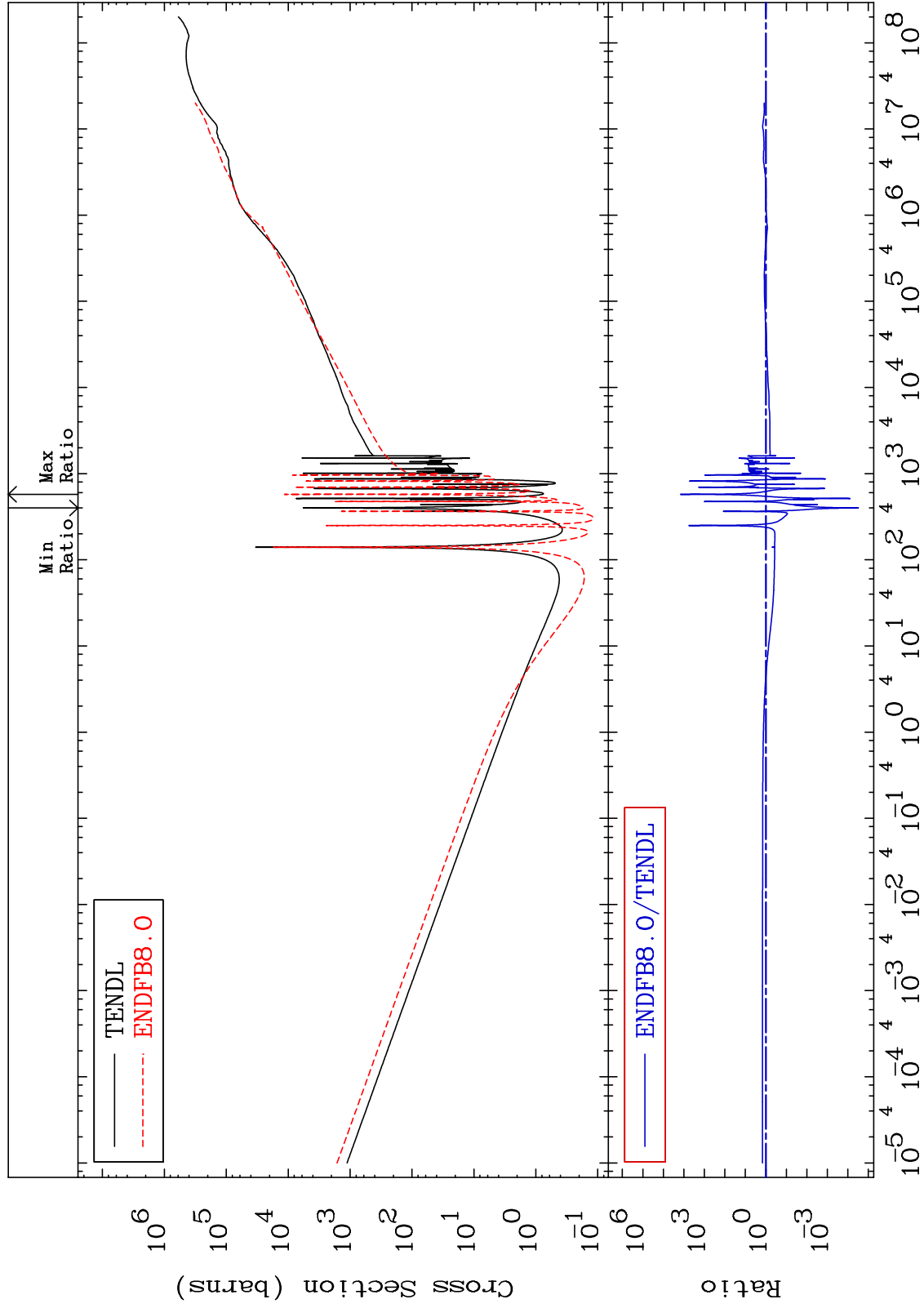
Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa total (eV-barns)  
Cross Section

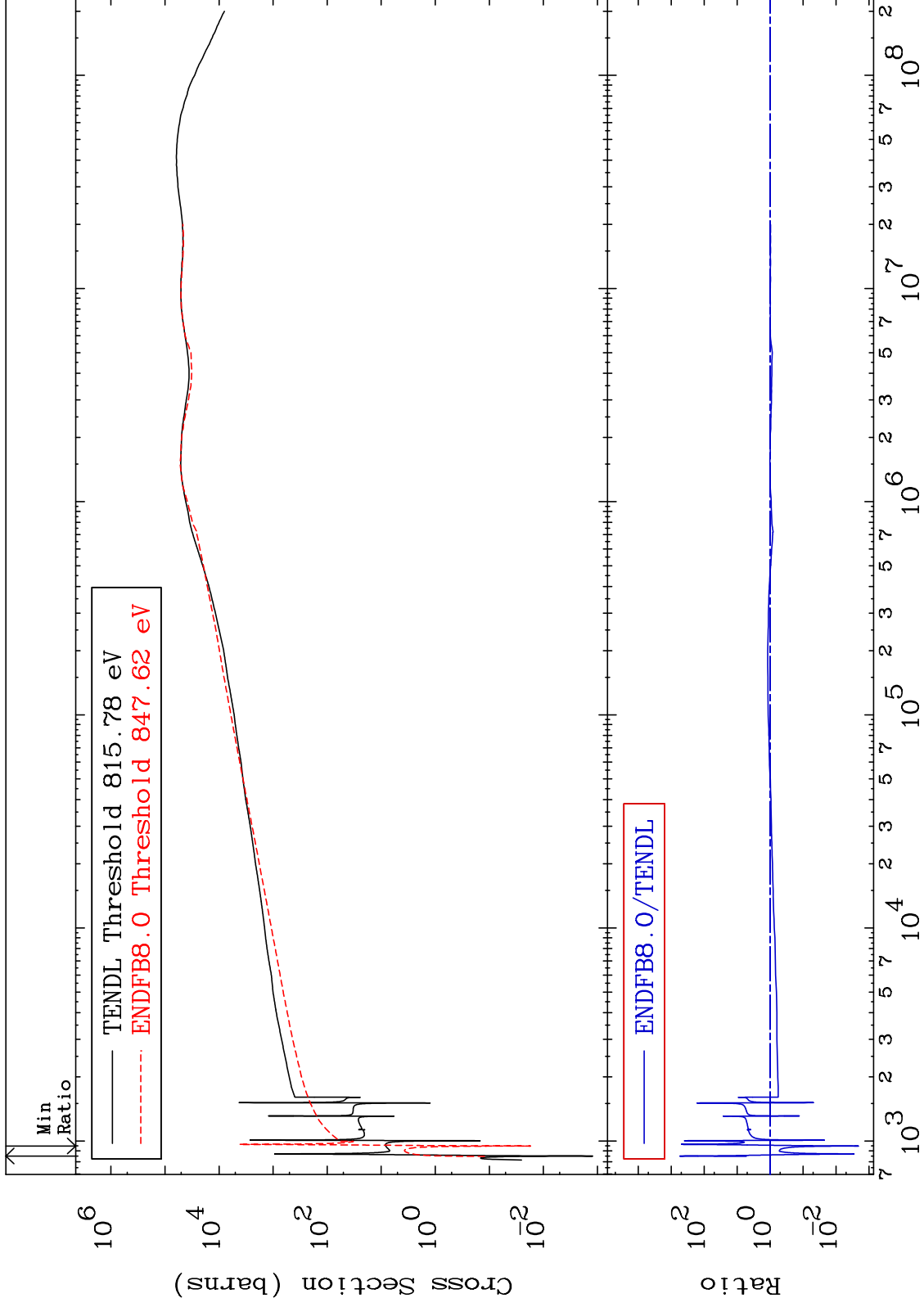
58-Ce-138  
-100.0 To 9999. %



MAT 5831

Dpa elastic (mt2)  
Cross Section

58-Ce-138  
-99.79 To 9999. %



39

58-Ce-138

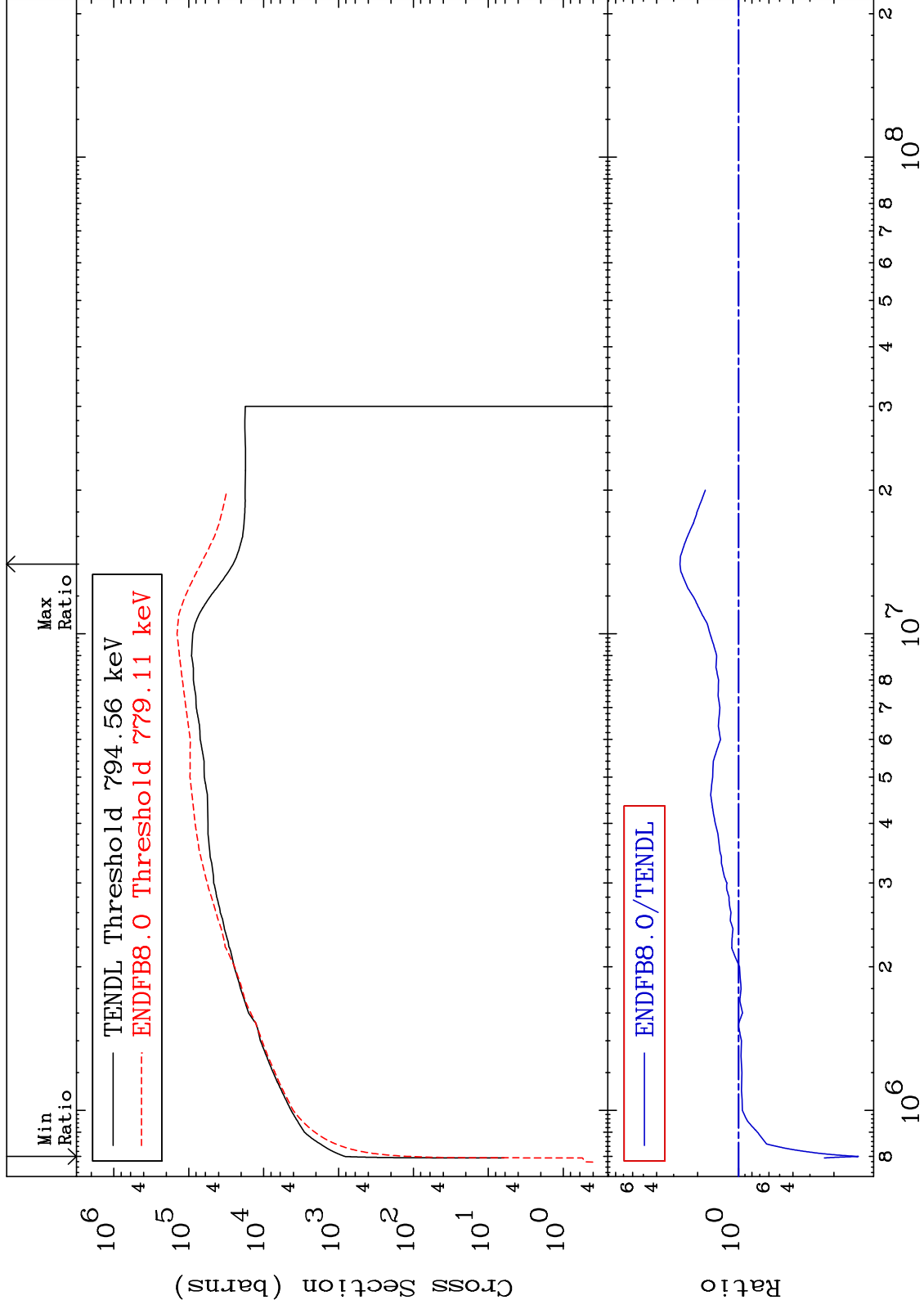
58-Ce-138



MAT 5831

Dpa inelastic (mt51-91)  
Cross Section

58-Ce-138  
-86.79 To 169.3 %



40 Incident Energy (eV) 58-Ce-138

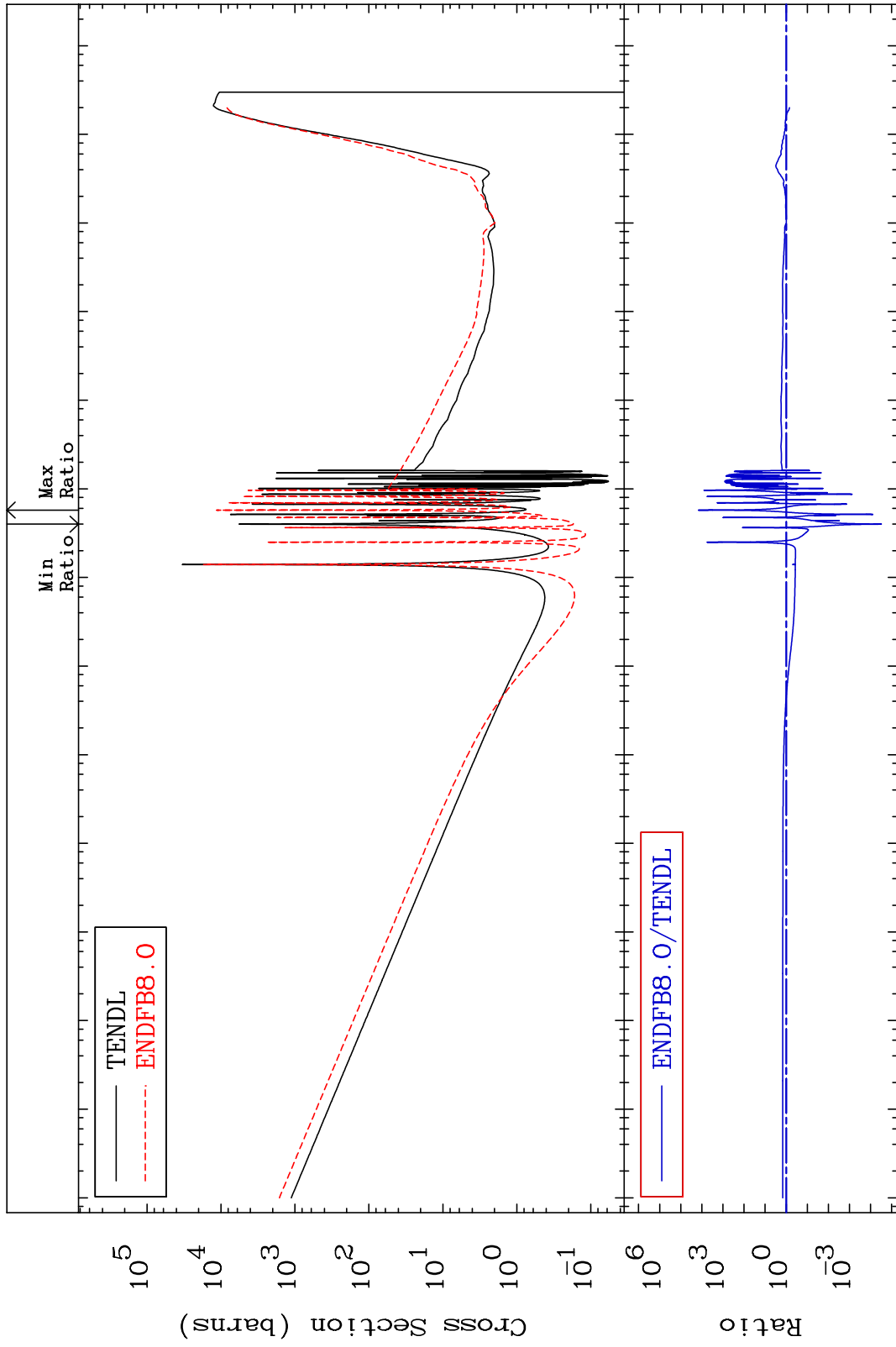
MAT 5831

Dpa disappearance (mt102 -120)

58-Ce-138

-100.0 To 9999. %

Cross Section



41

Incident Energy (eV)

58-Ce-138