

Program Complot  
(Version 2018-1)

by

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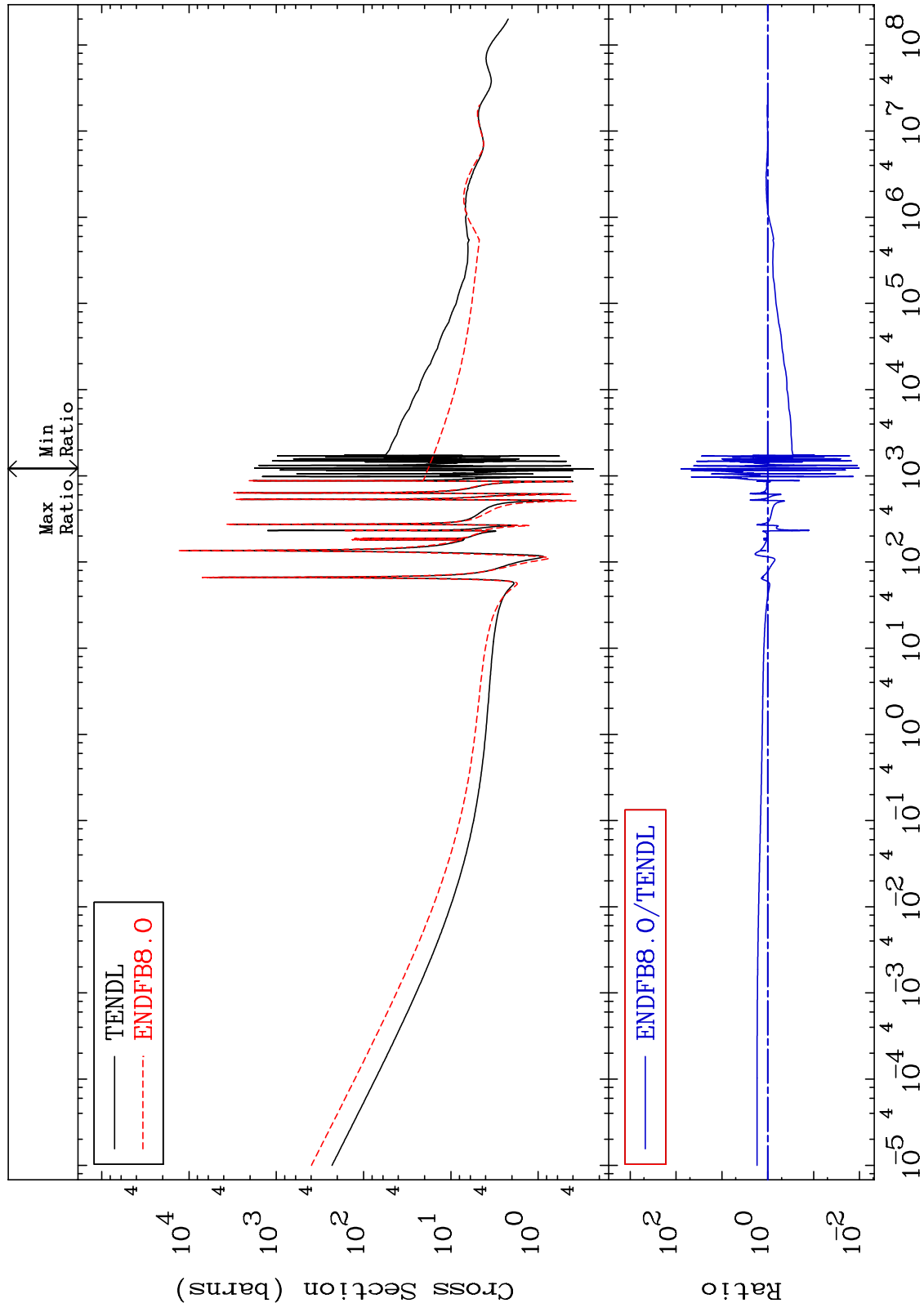
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5825

Total  
Cross Section

58-Ce-136  
-98.98 To 7775. %



1

Incident Energy (eV)

58-Ce-136

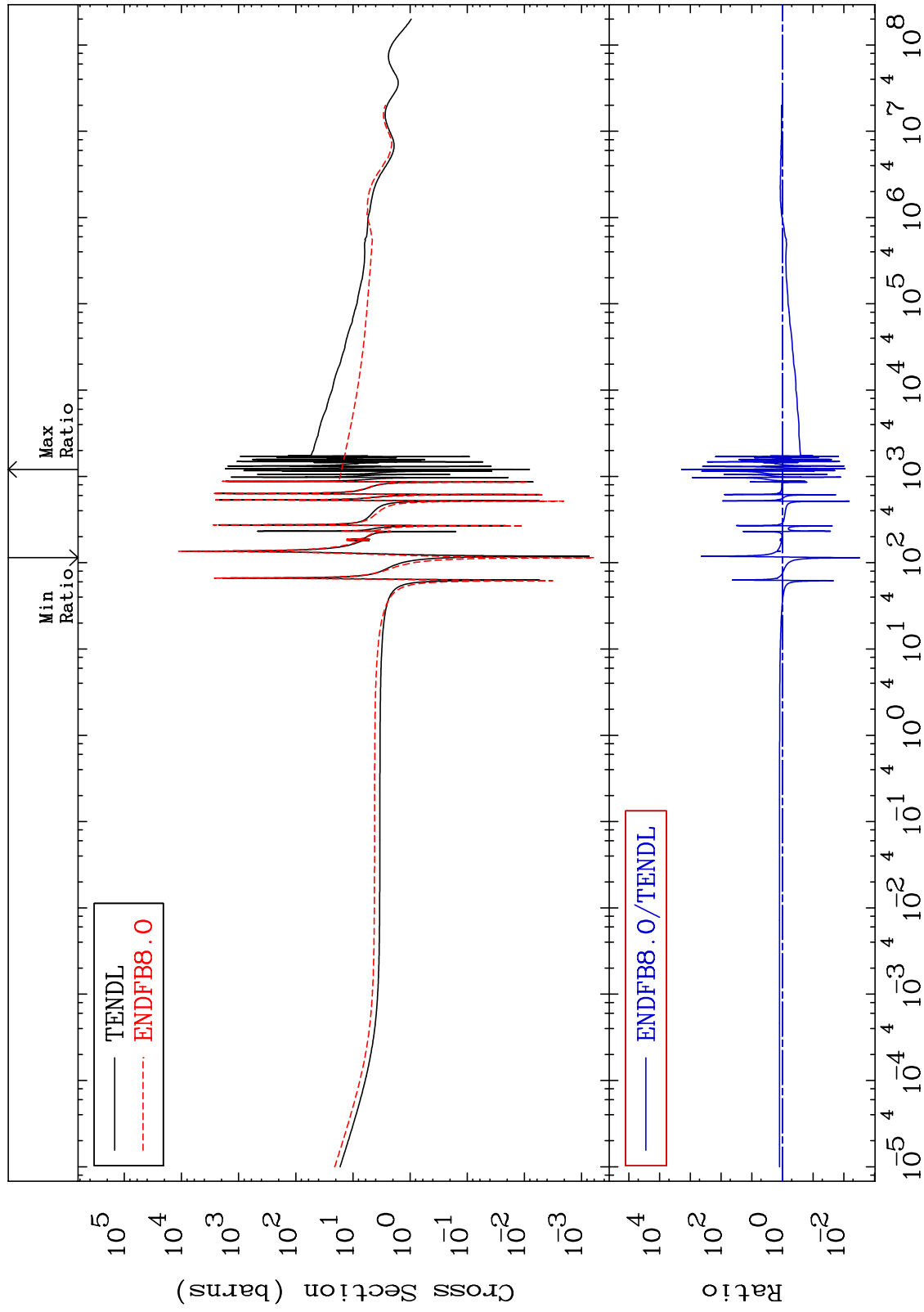
MAT 5825

Elastic

Cross Section

58-Ce-136

-99.70 To 9999. %

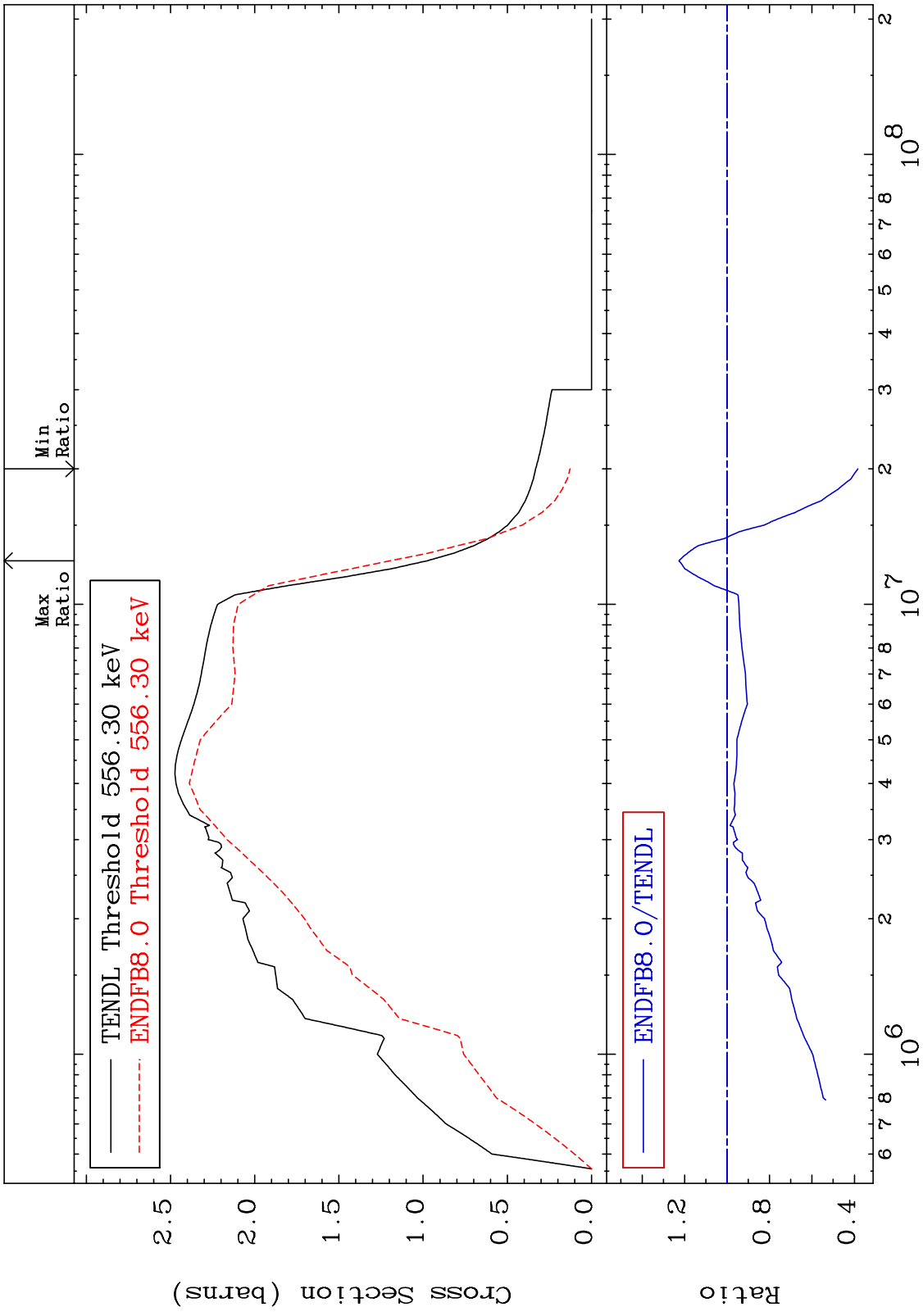


2

Incident Energy (eV)

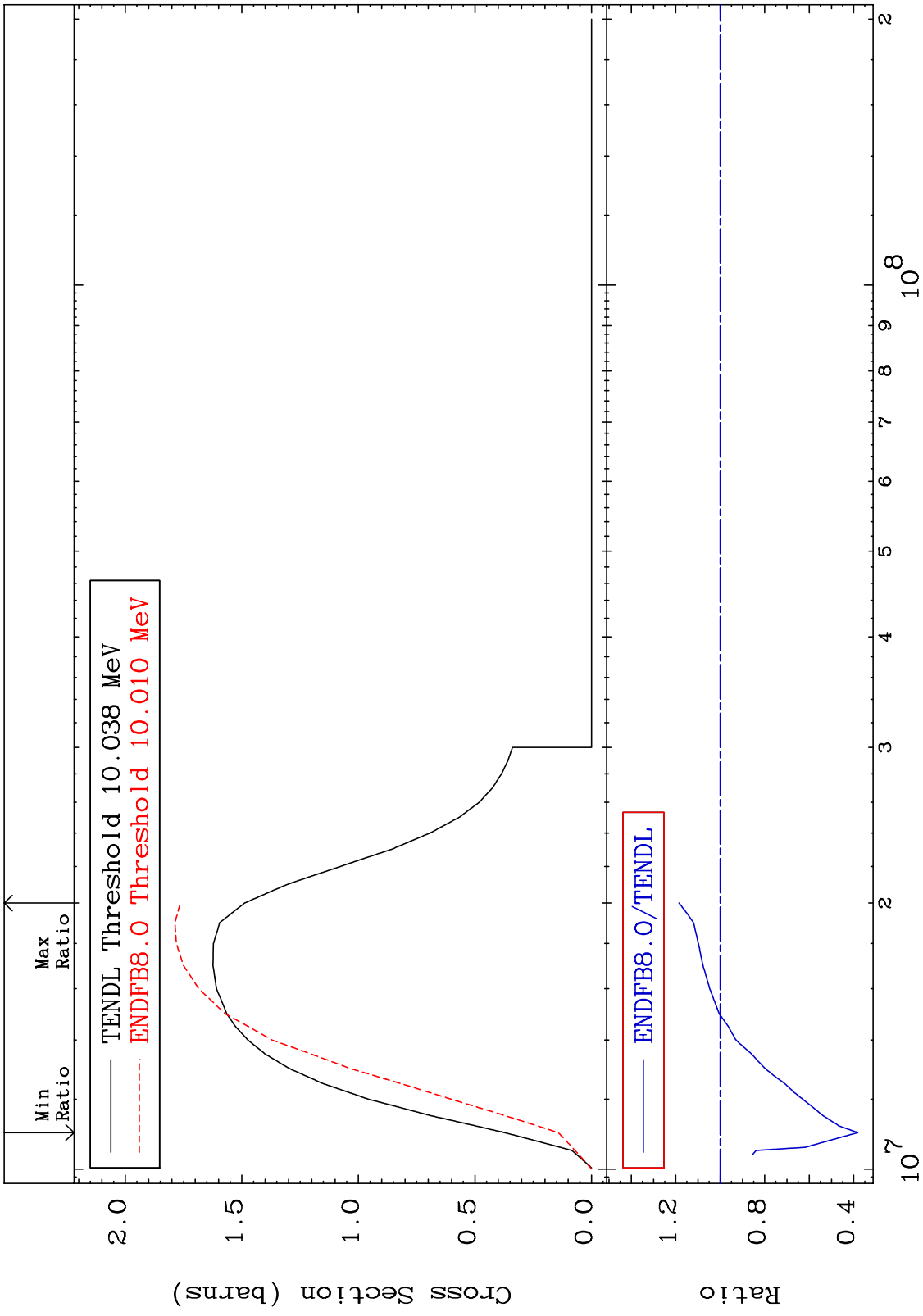
58-Ce-136

MAT 5825 58-Ce-136 -61.61 To 22.62 % Inelastic Cross Section



3 Incident Energy (eV) 58-Ce-136

MAT 5825 (n,2n) Cross Section 58-Ce-136 -61.84 To 18.54 %



Incident Energy (eV) 58-Ce-136

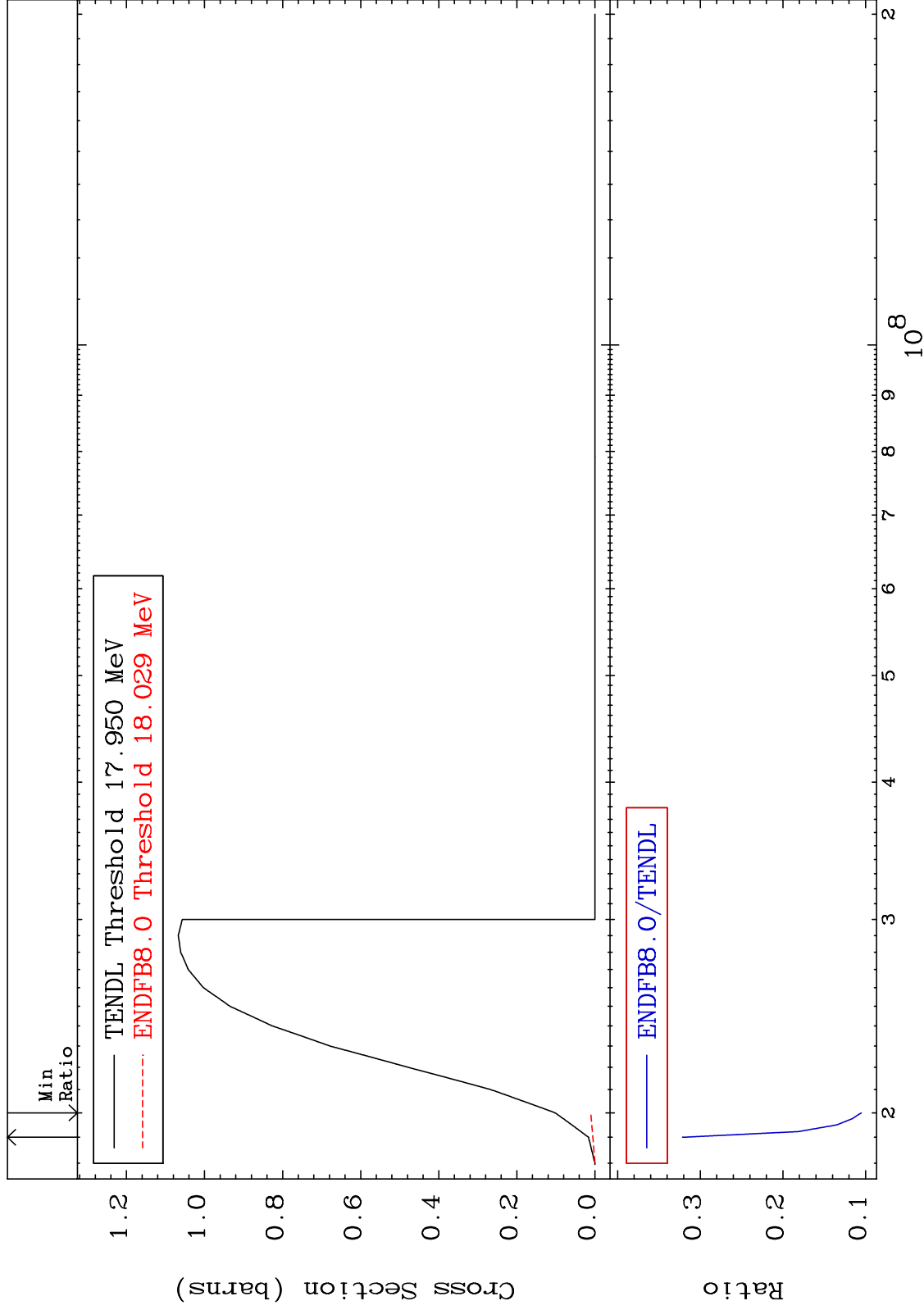
MAT 5825

(n,3n)

58-Ce-136

Cross Section

-89.48 To -67.85%



5

Incident Energy (eV)

58-Ce-136

MAT 5825

(n, n')  $\alpha$

58-Ce-136

25.63 To 1481. %

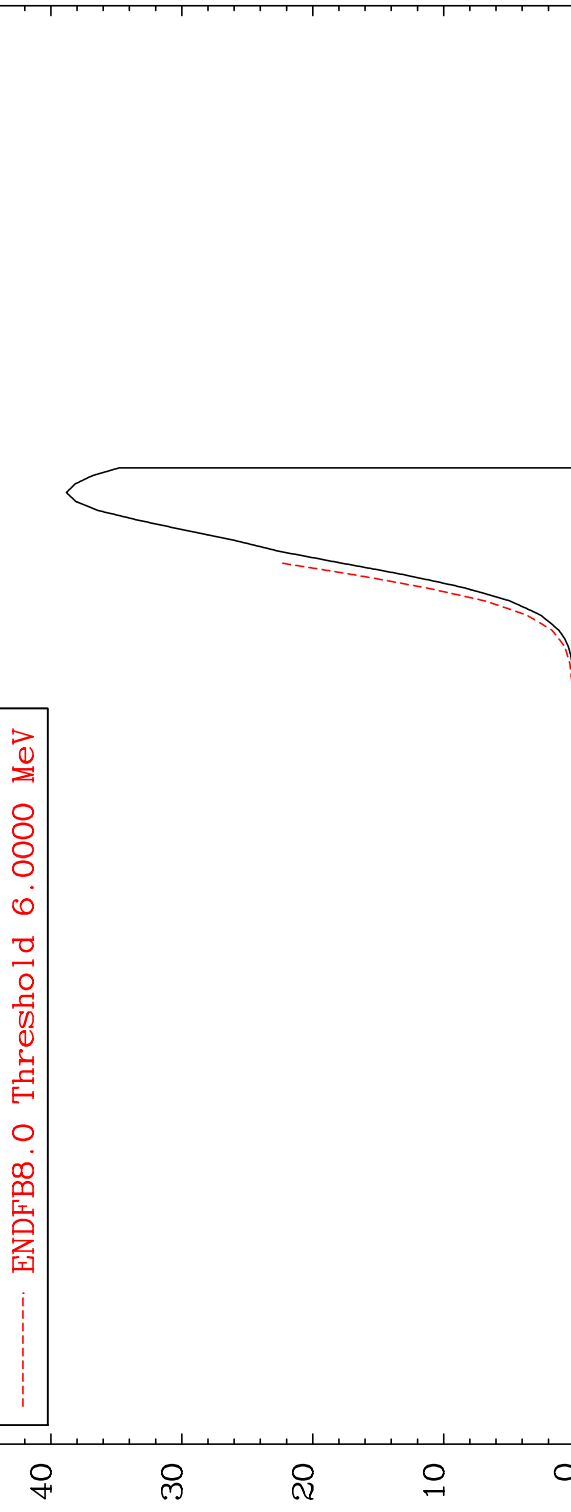
Cross Section

Max Ratio

Min Ratio

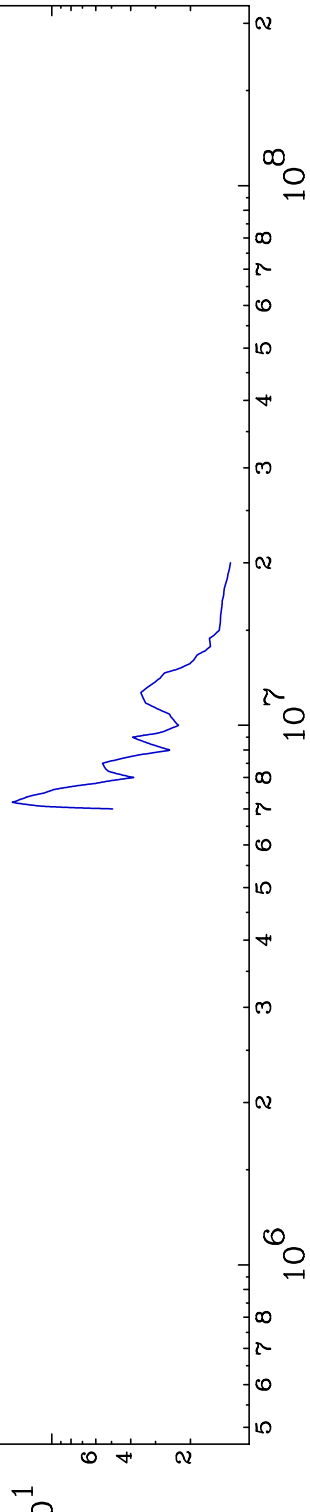
TENDL Threshold 501.96 keV  
ENDFB8.0 Threshold 6.0000 MeV

Cross Section (milli-barns)

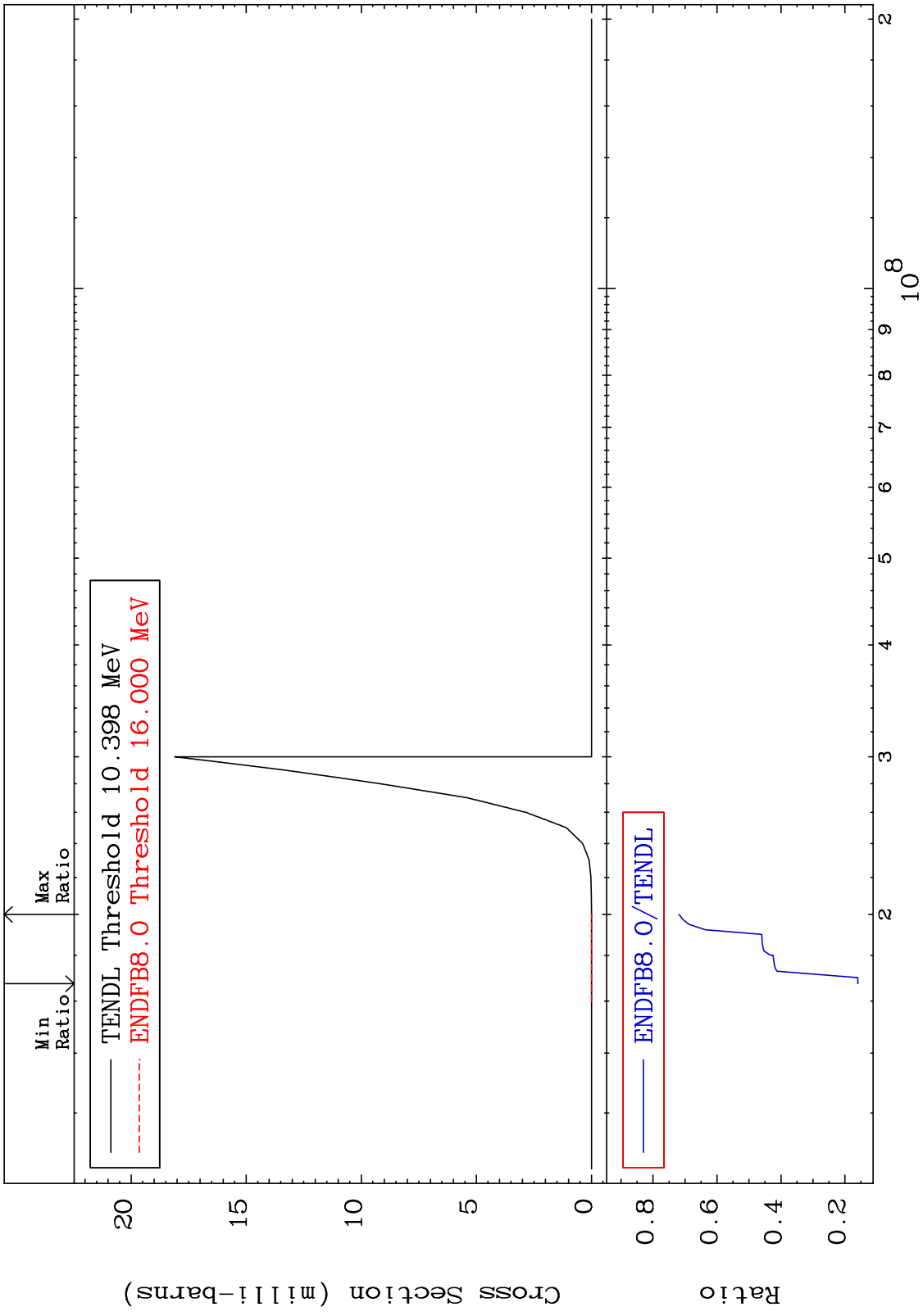


ENDFB8.0/TENDL

Ratio

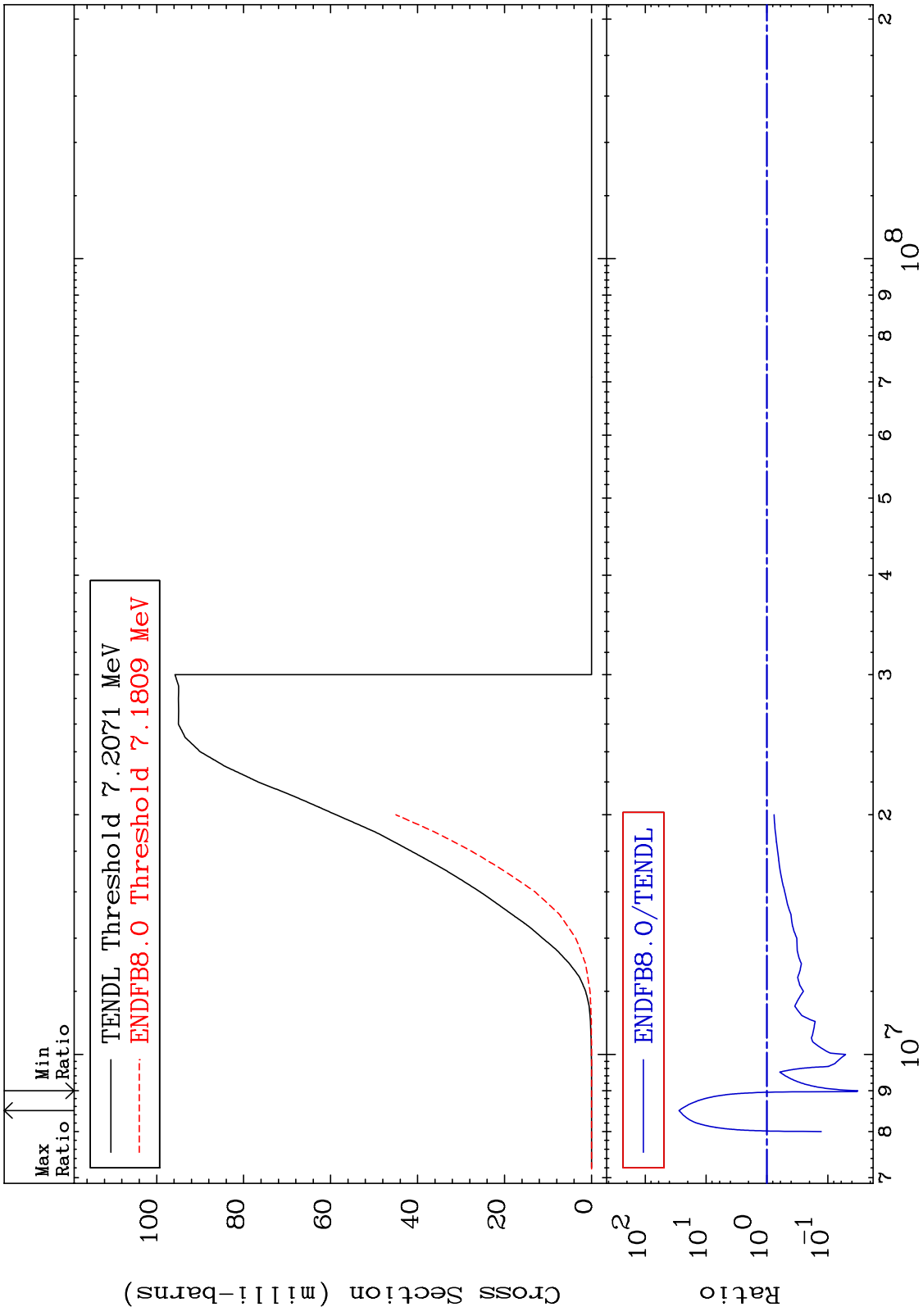


MAT 5825  $(n, 2n) \alpha$  58-Ce-136  
 Cross Section -84.04 To -28.13%



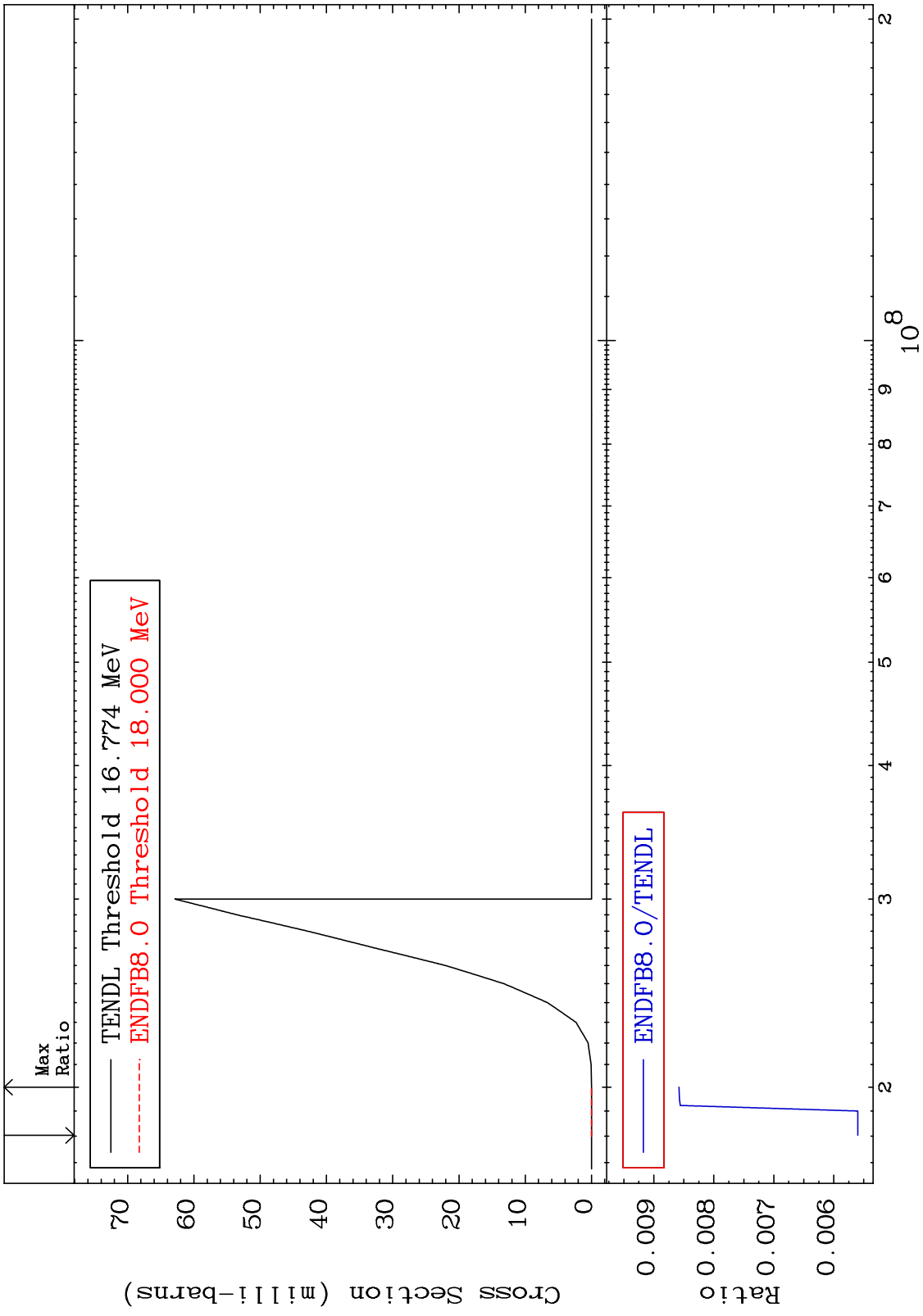


MAT 5825 (n,n') p 58-Ce-136  
 Cross Section -96.80 To 2679. %

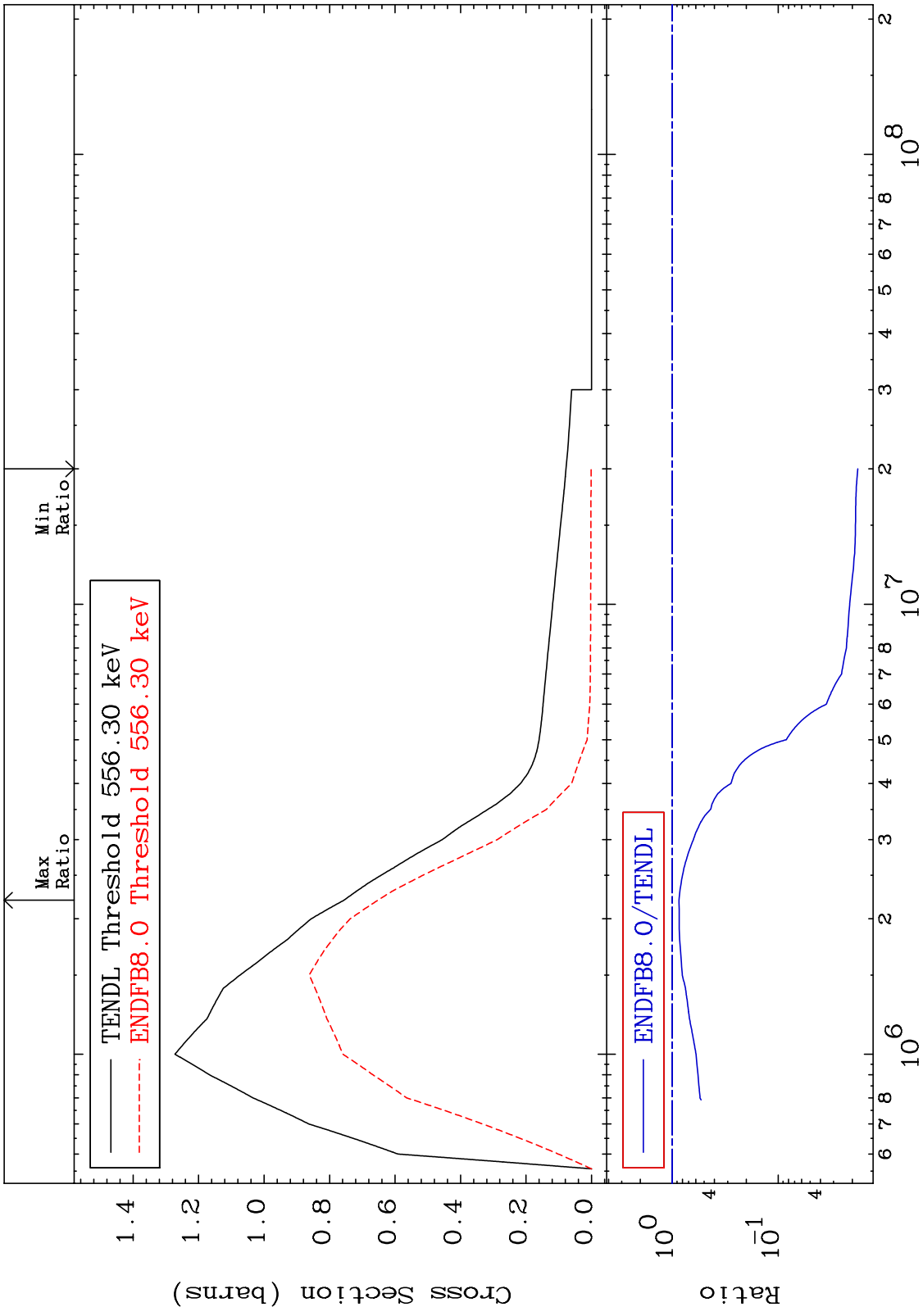


8 Incident Energy (eV) 58-Ce-136

MAT 5825 (n,2n) p 58-Ce-136  
 Cross Section -99.44 To -99.14%

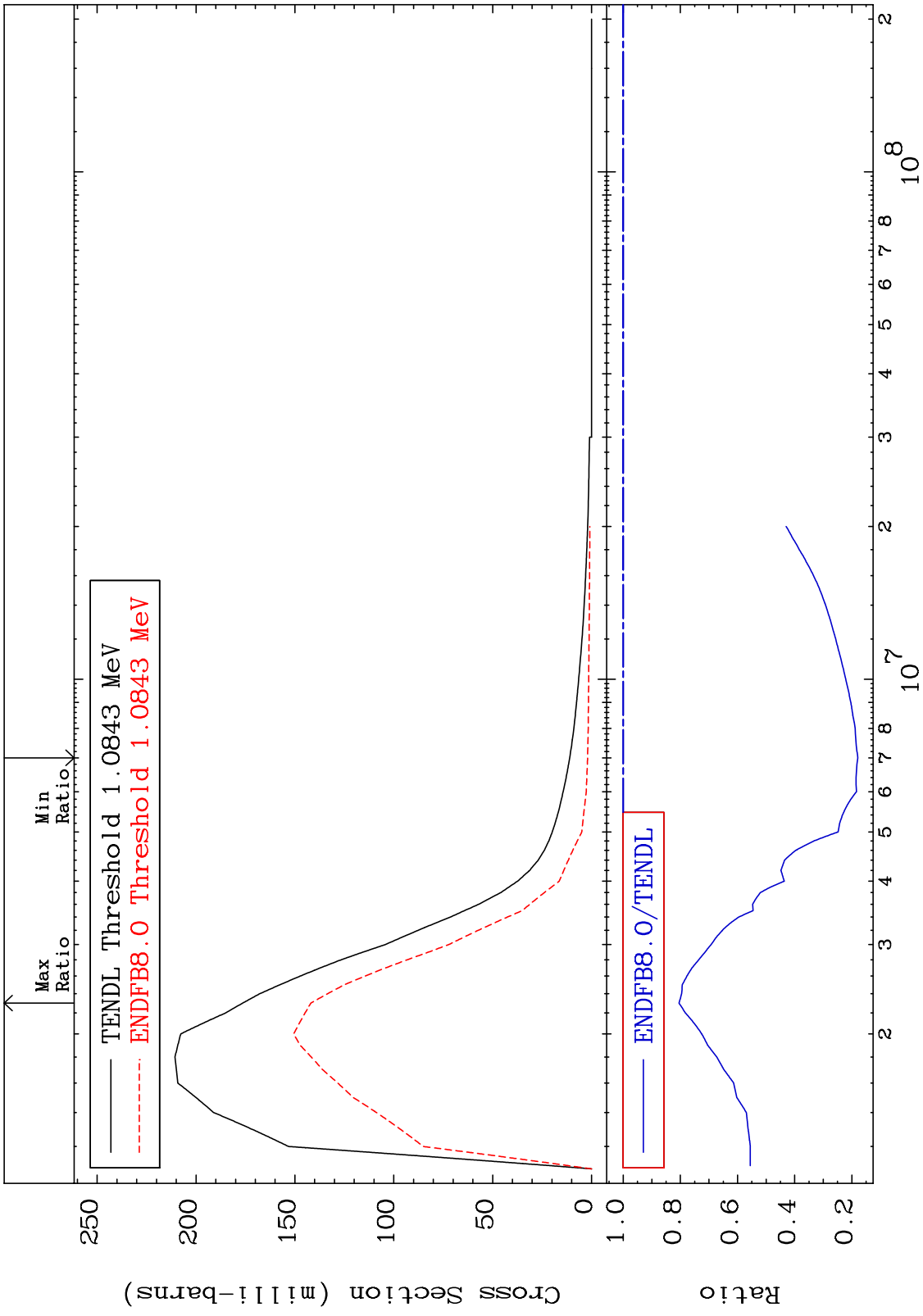


MAT 5825 MT= 51 (n,n') Level Cross Section 58-Ce-136 -98.23 To -13.72%

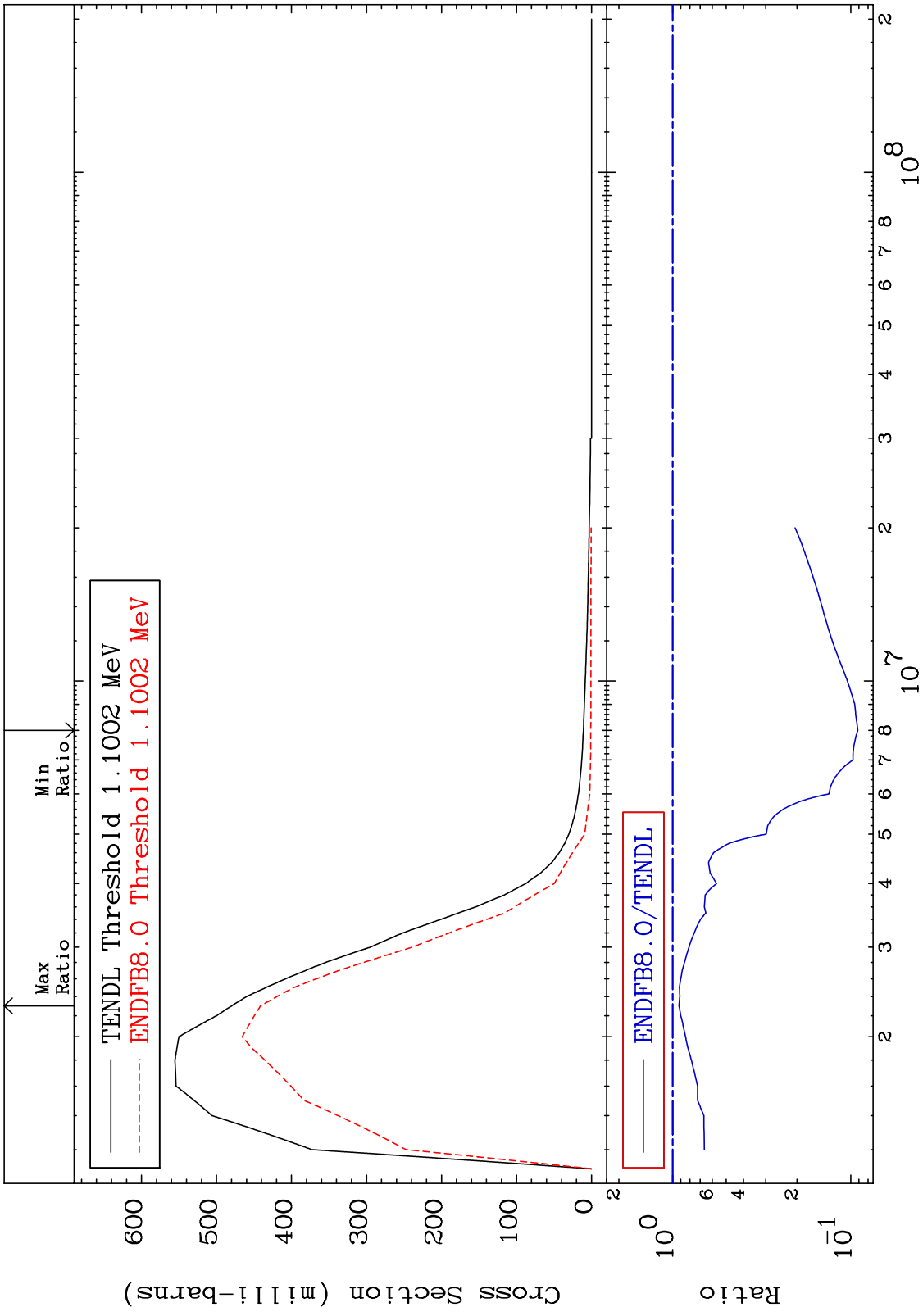


10 Incident Energy (eV) 58-Ce-136

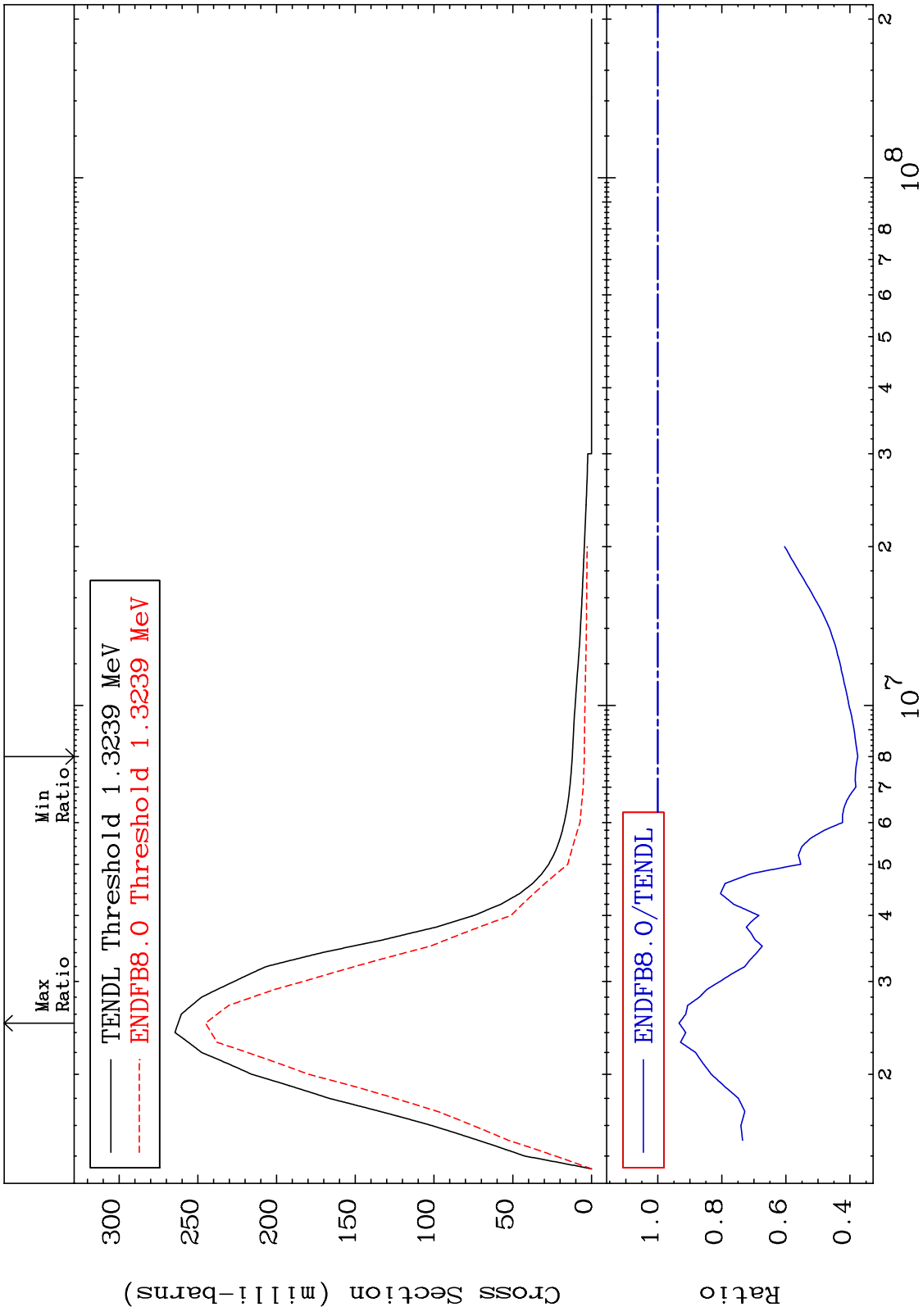
MAT 5825 MT= 52 (n,n') Level Cross Section 58-Ce-136 -82.10 To -19.53%



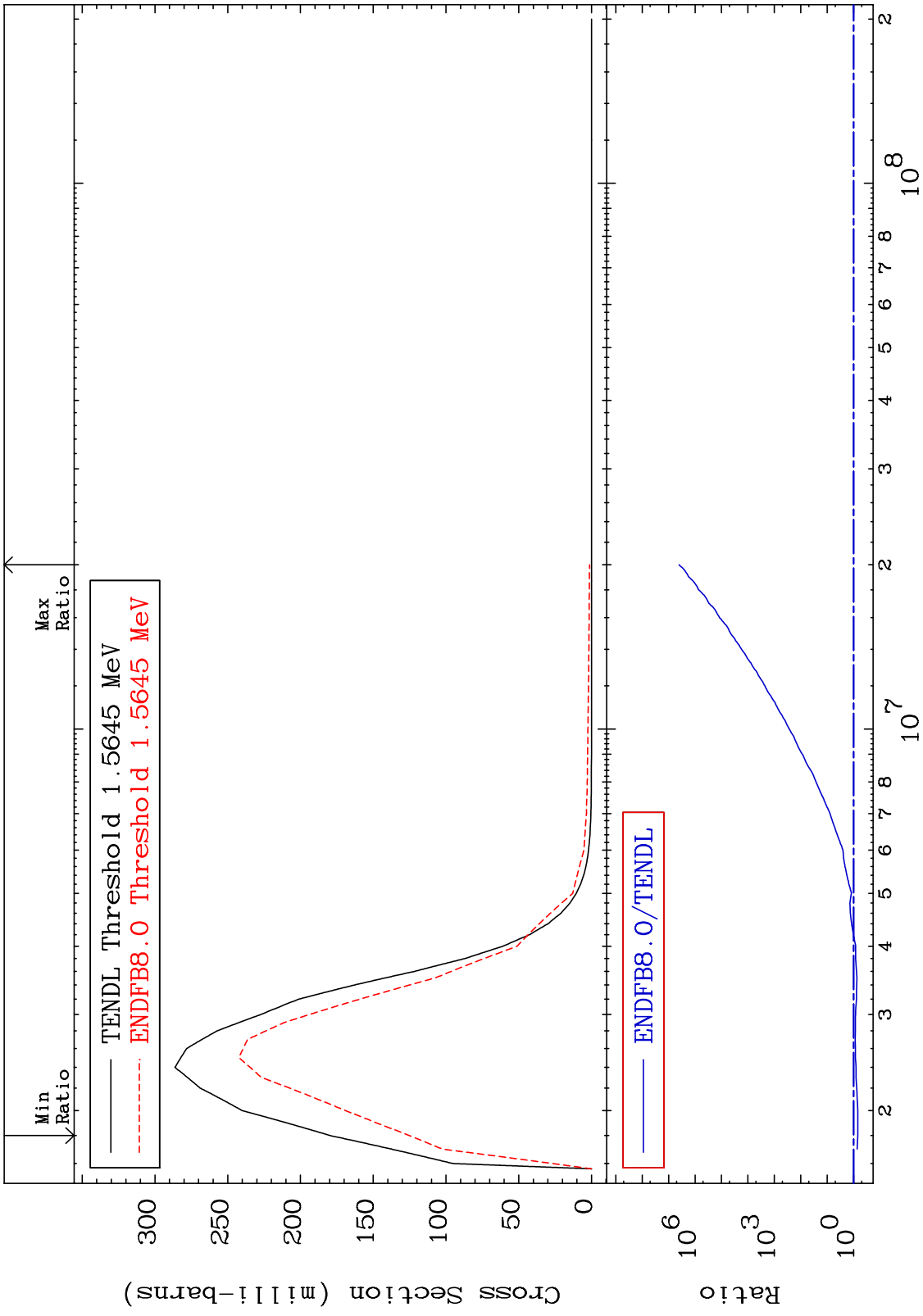
MAT 5825 MT= 53 (n,n') Level Cross Section 58-Ce-136 -90.88 To -8.004%



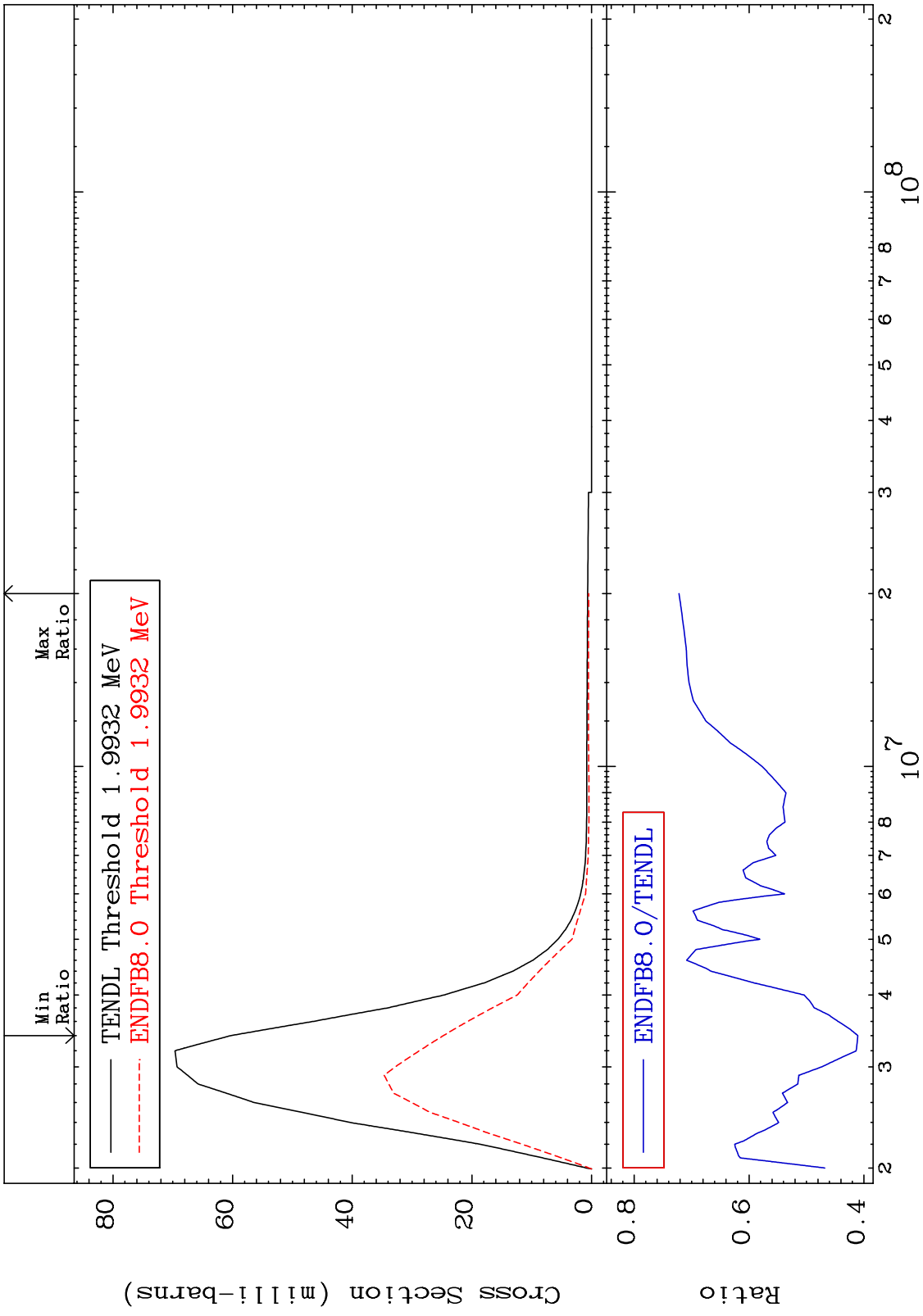
MAT 5825 MT= 54 (n,n') Level Cross Section 58-Ce-136 -62.45 To -6.625%



MAT 5825 MT= 55 (n,n') Level Cross Section 58-Ce-136  
 -30.25 To 9999. %



MAT 5825 MT= 56 (n,n') Level Cross Section 58-Ce-136 -58.94 To -27.81%

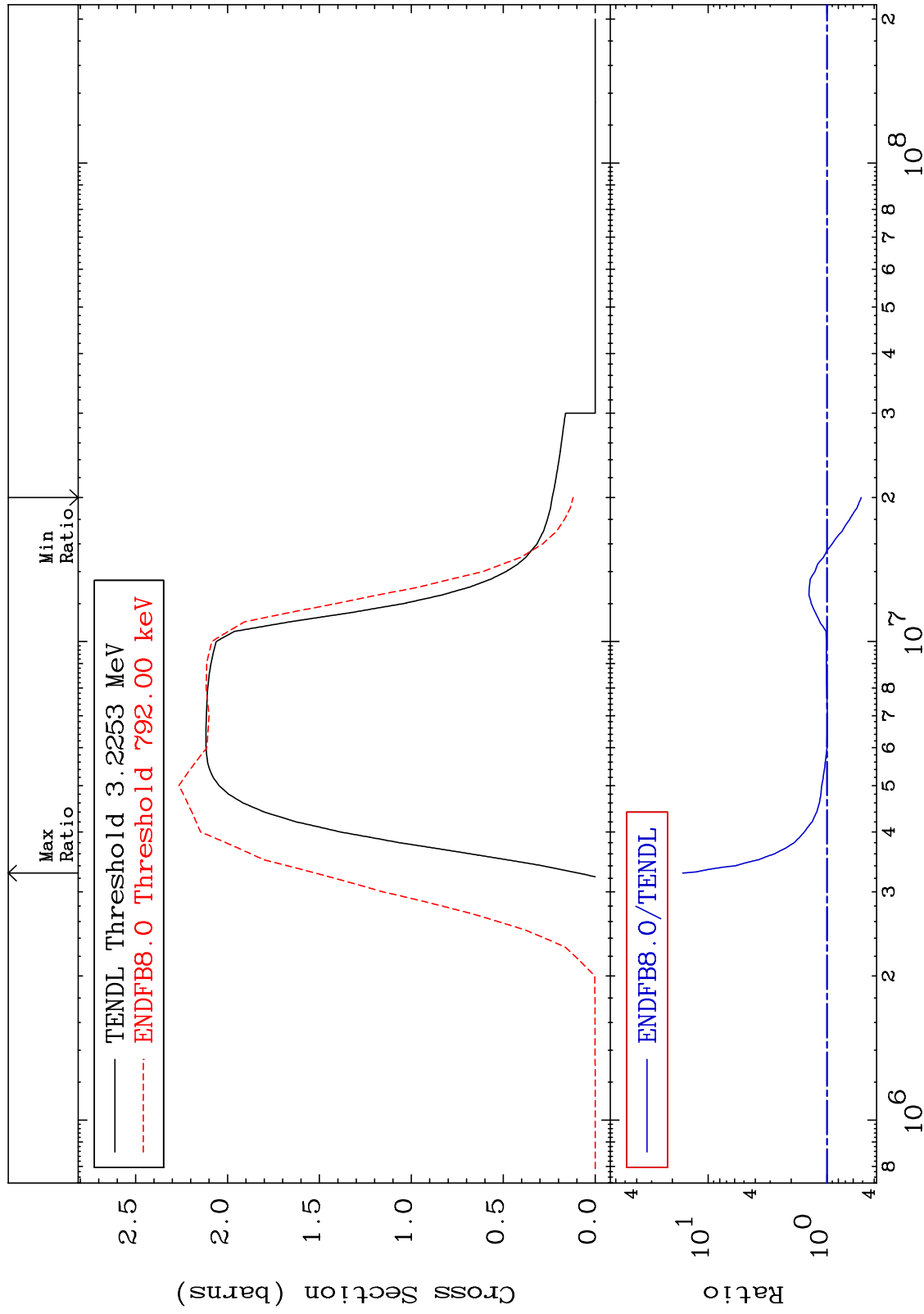




MAT 5825

(n, n') Continuum  
Cross Section

58-Ce-136  
-48.71 To 1539. %



16

Incident Energy (eV)

58-Ce-136

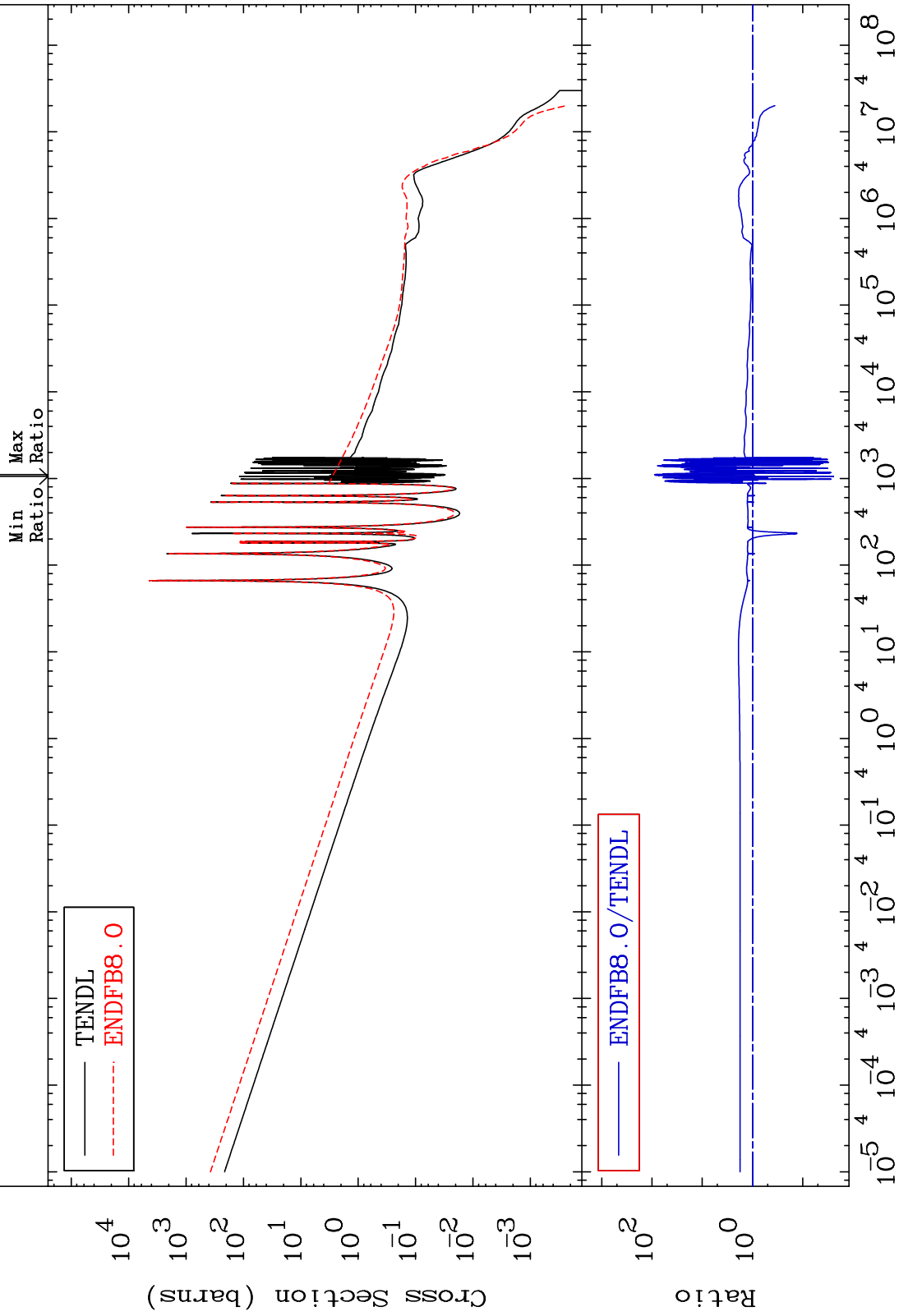
MAT 5825

(n,  $\gamma$ )

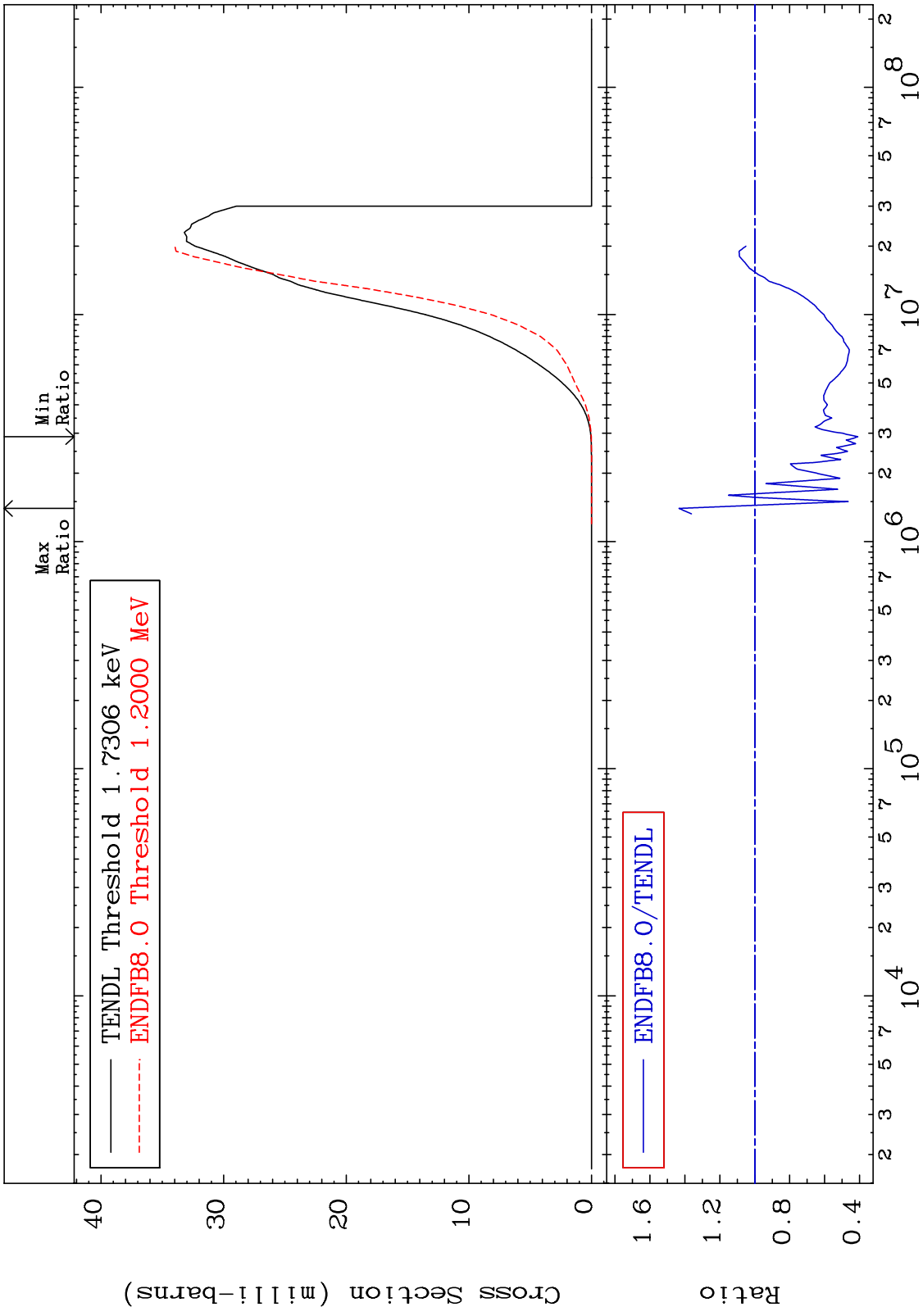
58-Ce-136

-97.58 To 8850. %

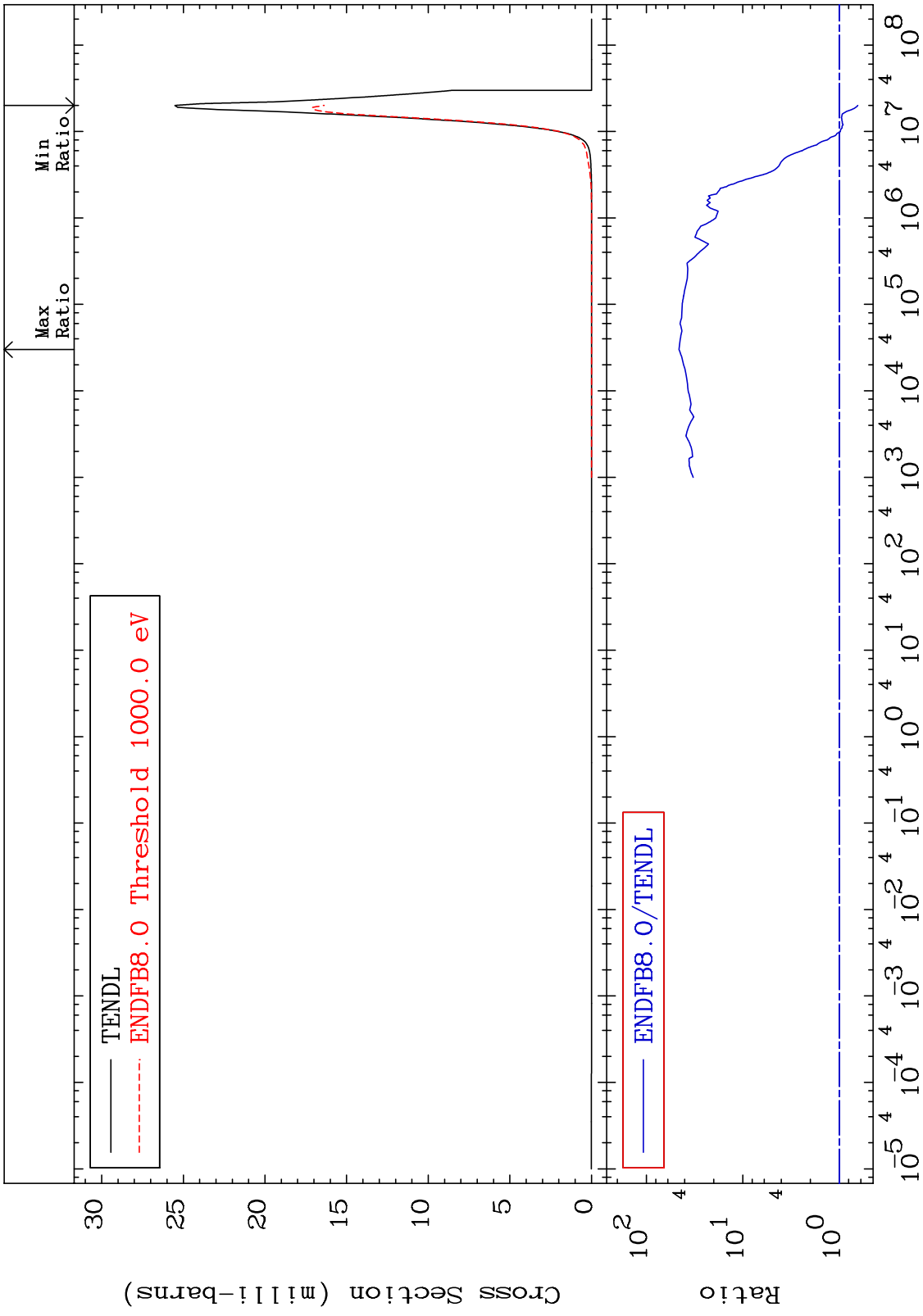
Cross Section



MAT 5825 (n,p) Cross Section 58-Ce-136 -59.01 To 43.33 %



MAT 5825  $(n, \alpha)$  Cross Section 58-Ce-136  
 -35.65 To 4485. %

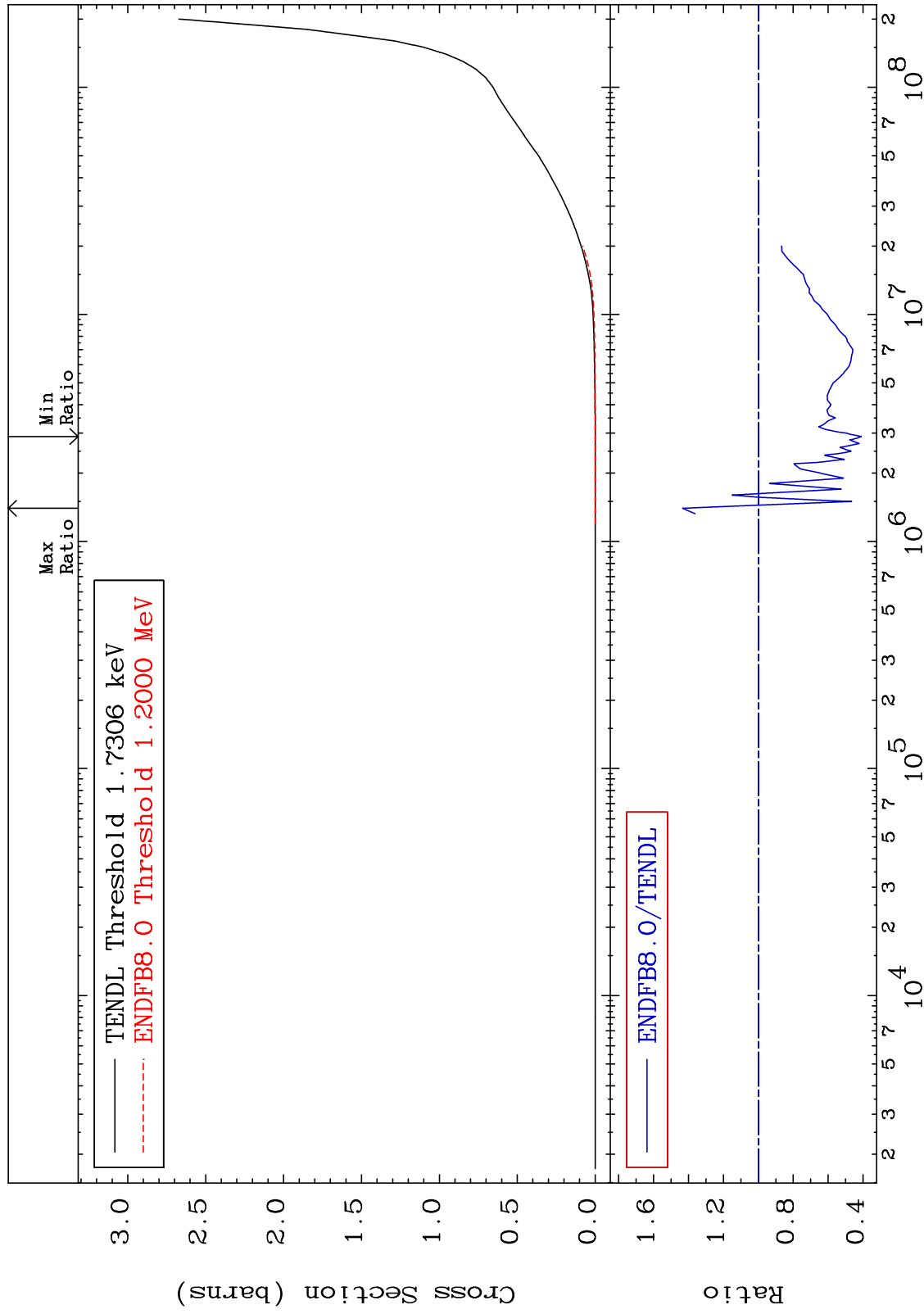


19 Incident Energy (eV) 58-Ce-136

MAT 5825

Hydrogen Production  
Cross Section

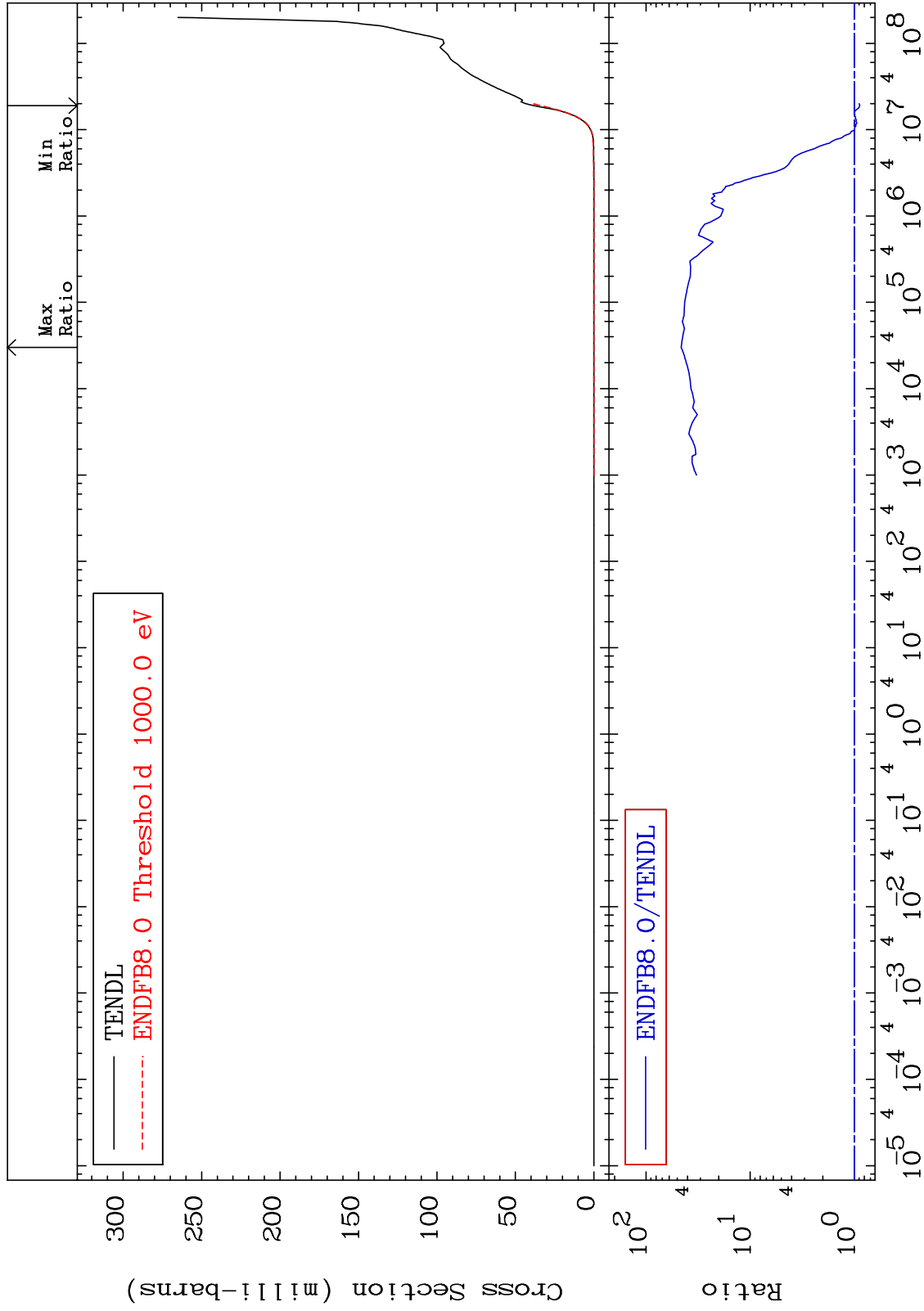
58-Ce-136  
-59.01 To 43.33 %



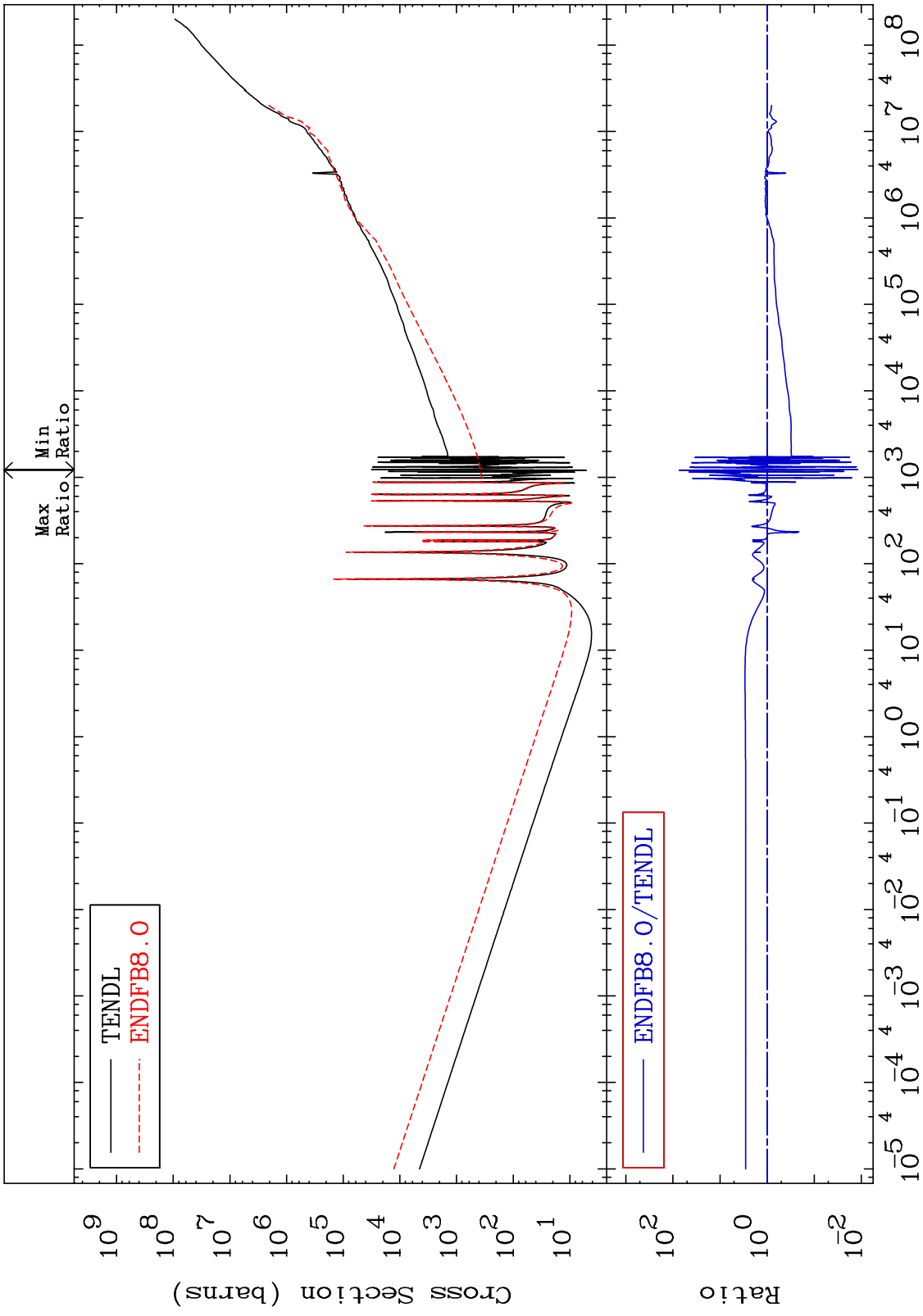
MAT 5825

He-4 Production  
Cross Section

58-Ce-136  
-11.55 To 4485. %



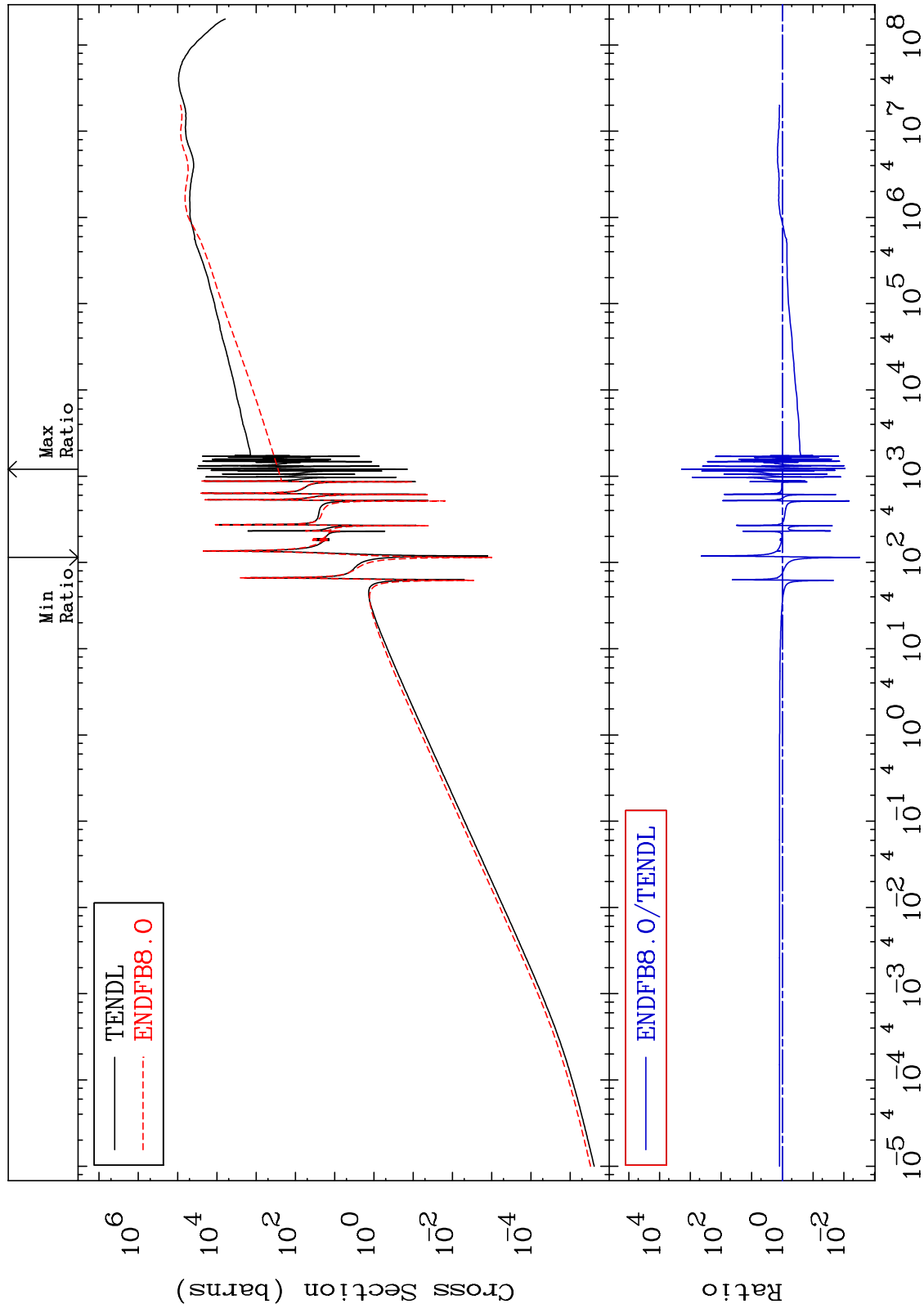
MAT 5825      Kerma total (eV-barns)      58-Ce-136  
 Cross Section      -98.81 To 7292. %



MAT 5825

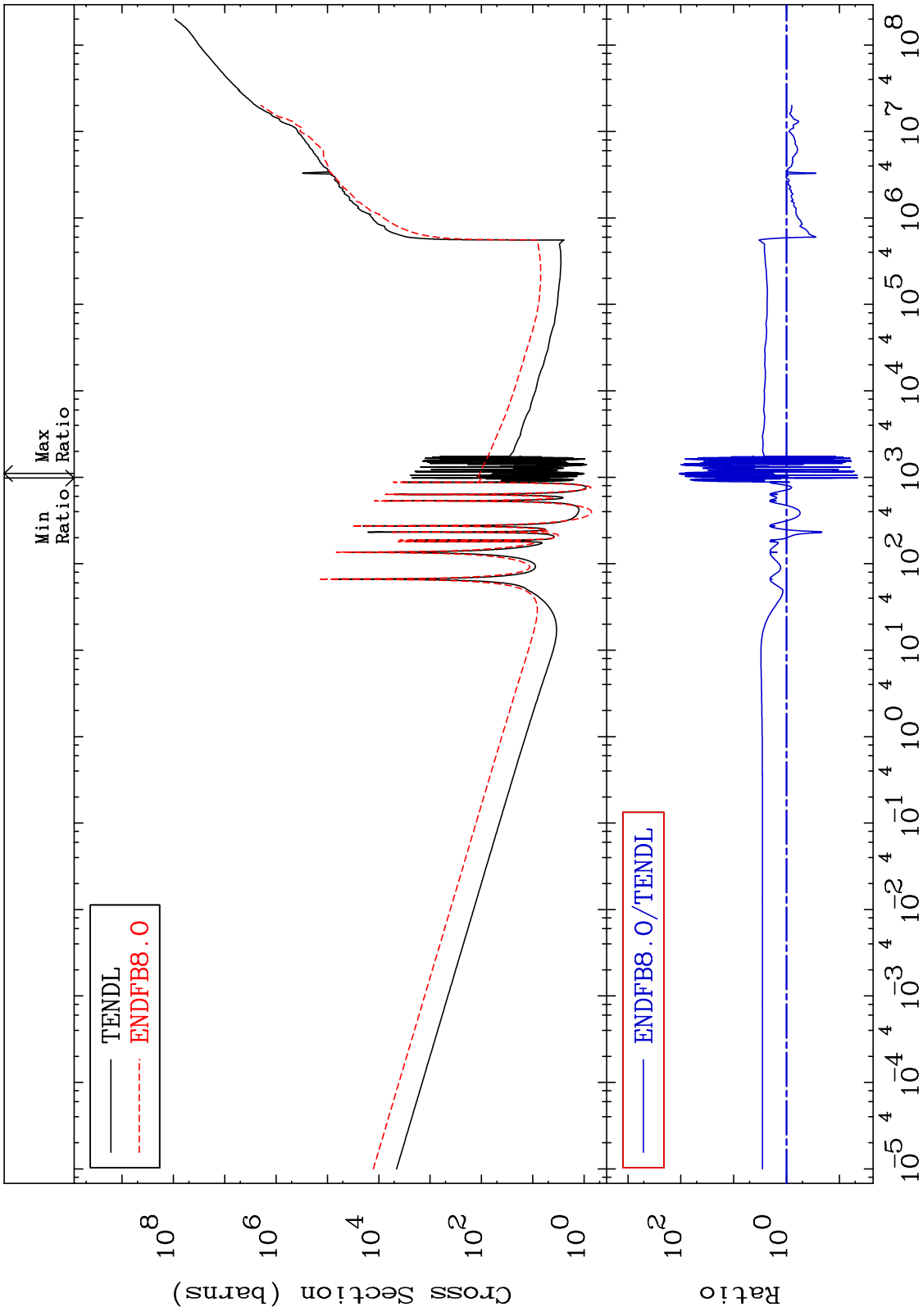
Kerma elastic  
Cross Section

58-Ce-136  
-99.70 To 9999. %

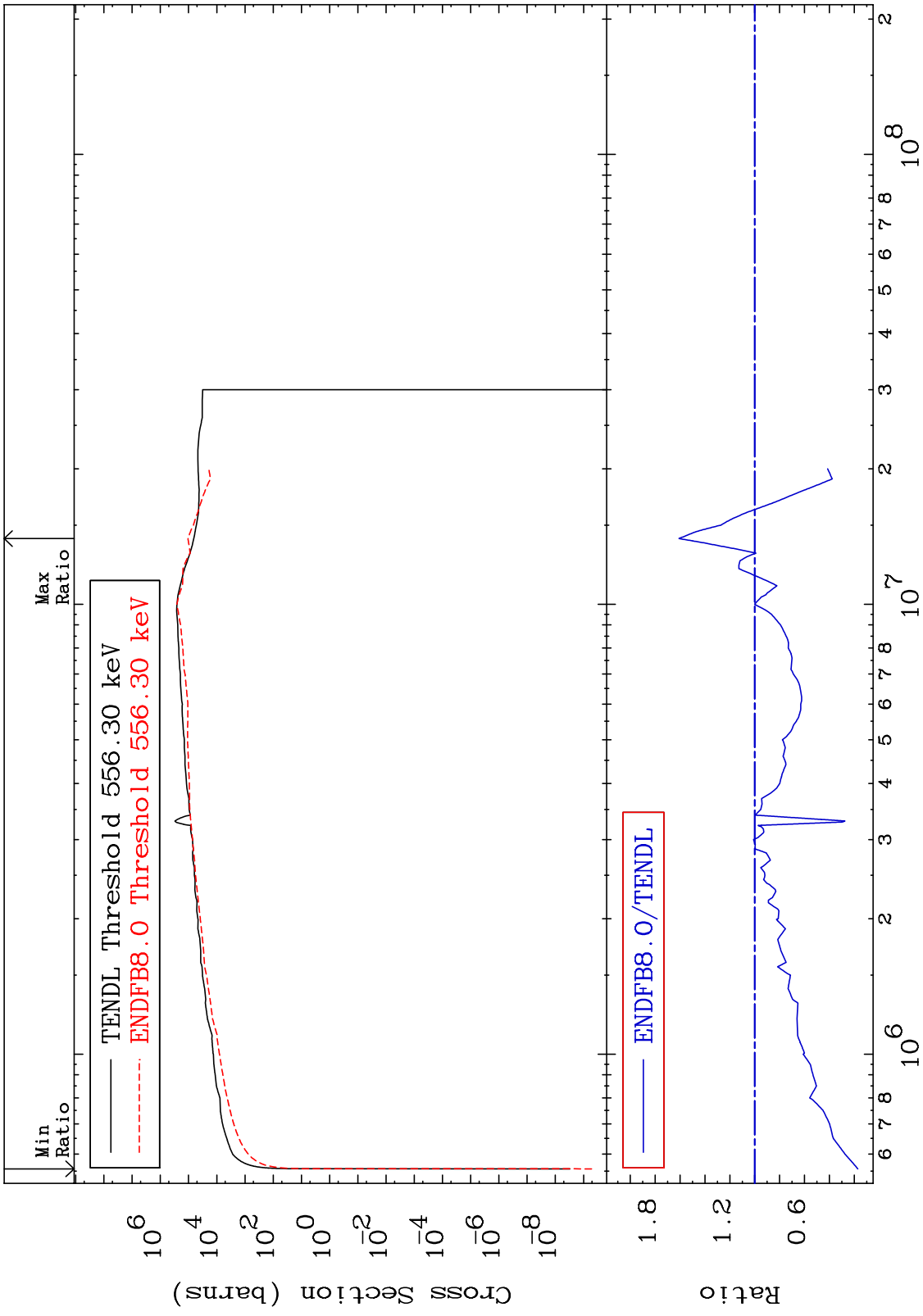




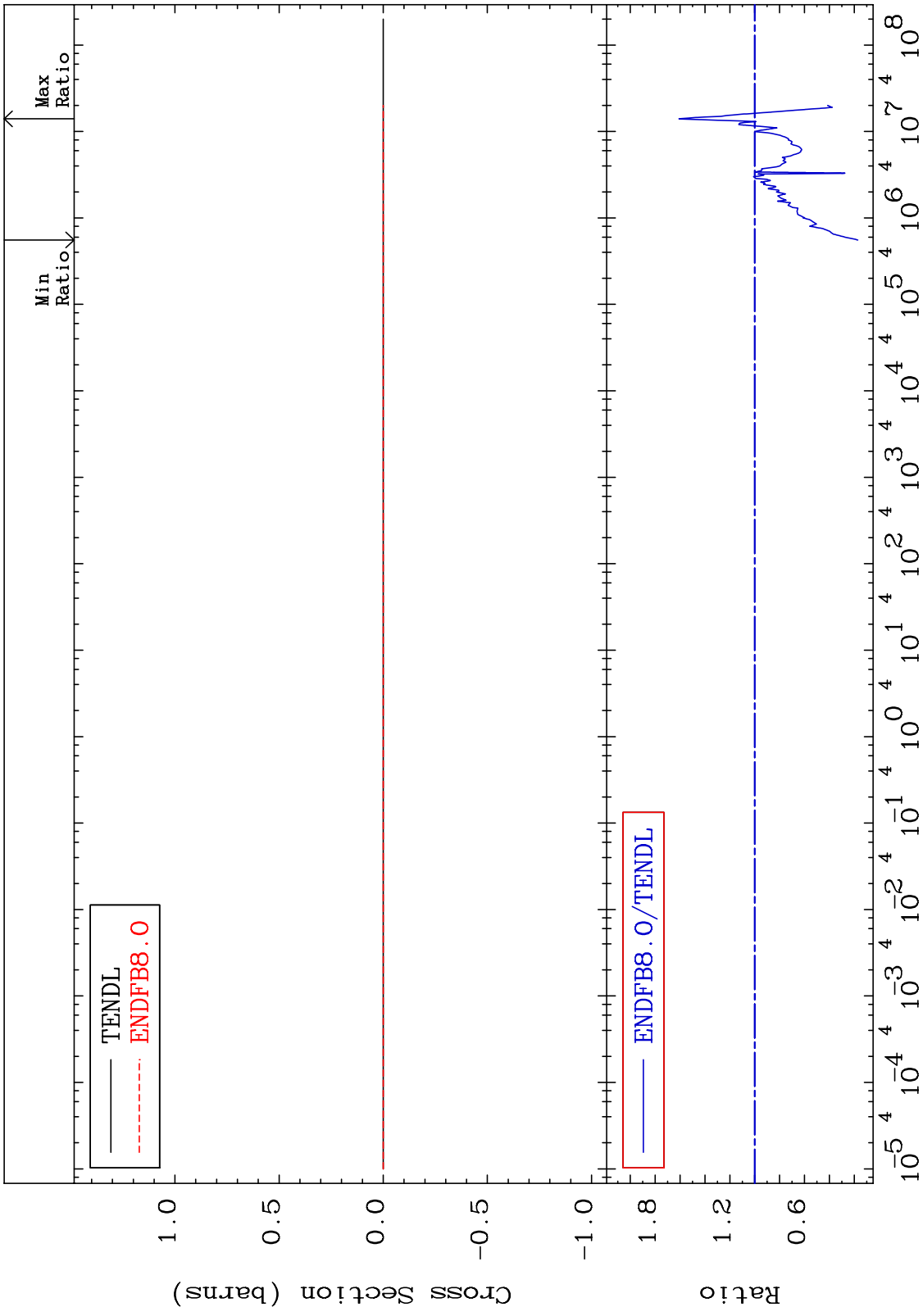
MAT 5825      Kerma non-elastic (all but mt2)      58-Ce-136  
 Cross Section      -95.53 To 9999. %



MAT 5825 Kerma inelastic (mt51-91) 58-Ce-136  
 -82.86 To 60.80 %



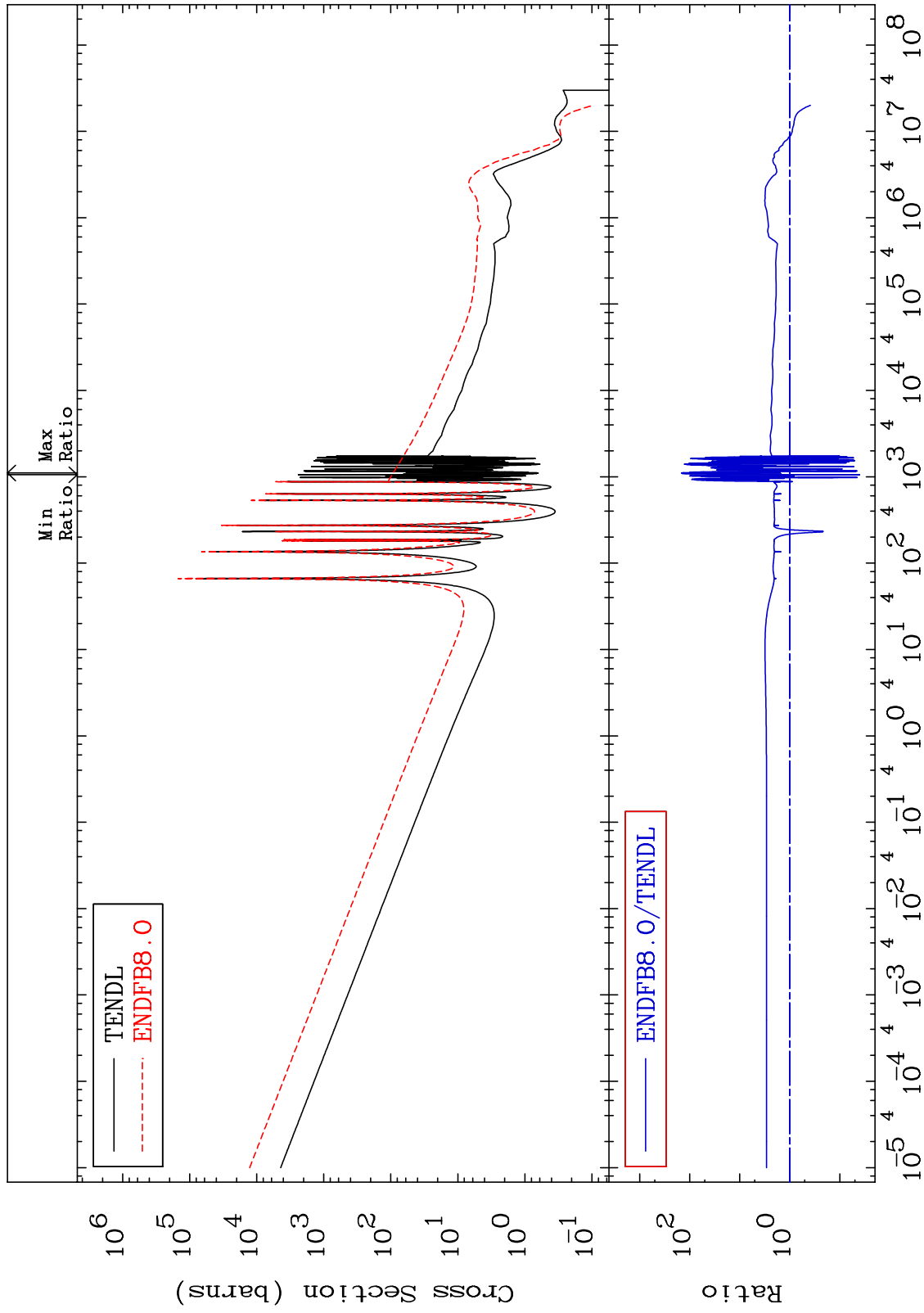
MAT 5825 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-136  
 Cross Section -82.86 To 60.80 %



MAT 5825

Kerma capture (mt102)  
Cross Section

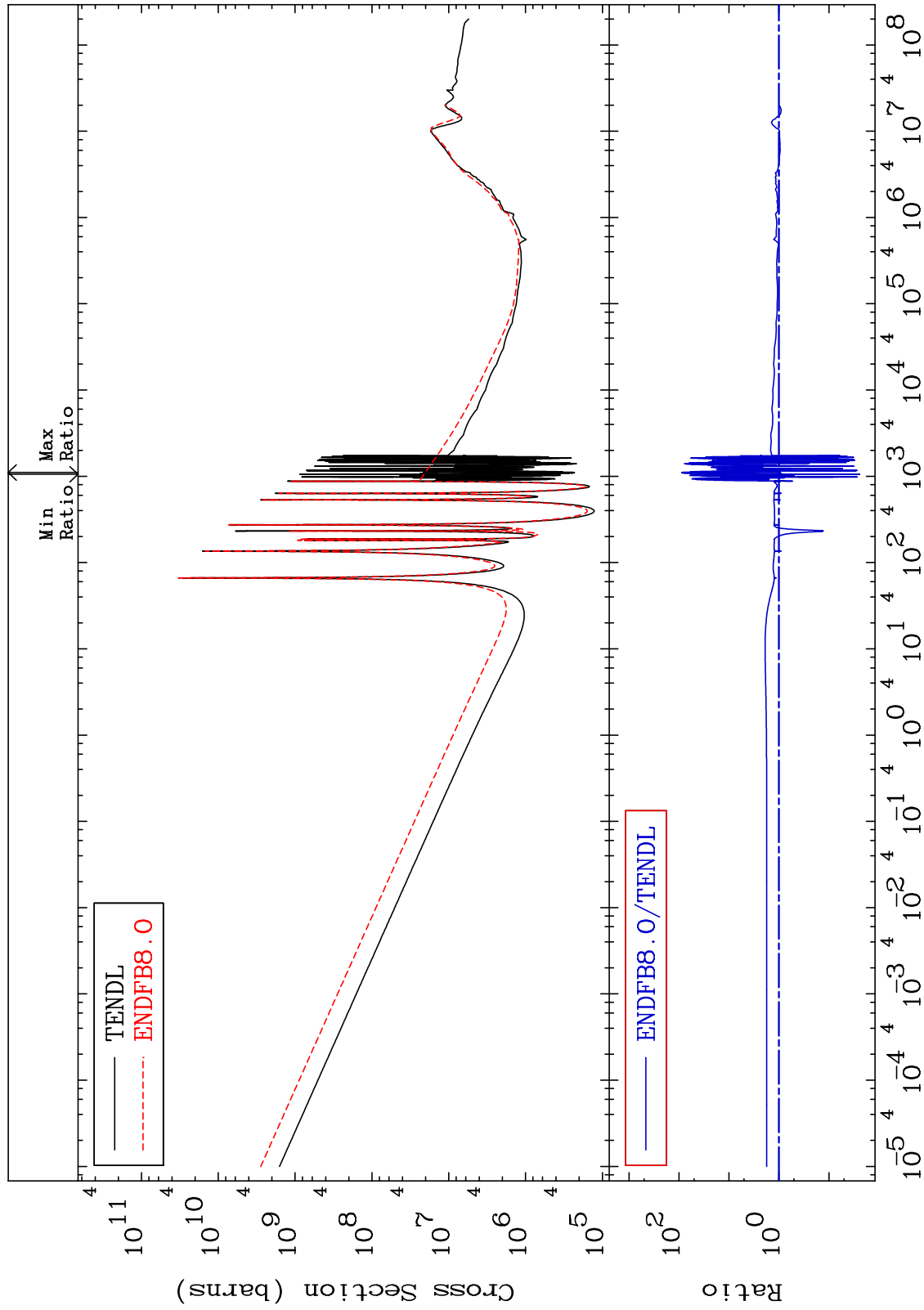
58-Ce-136  
-96.02 To 9999. %



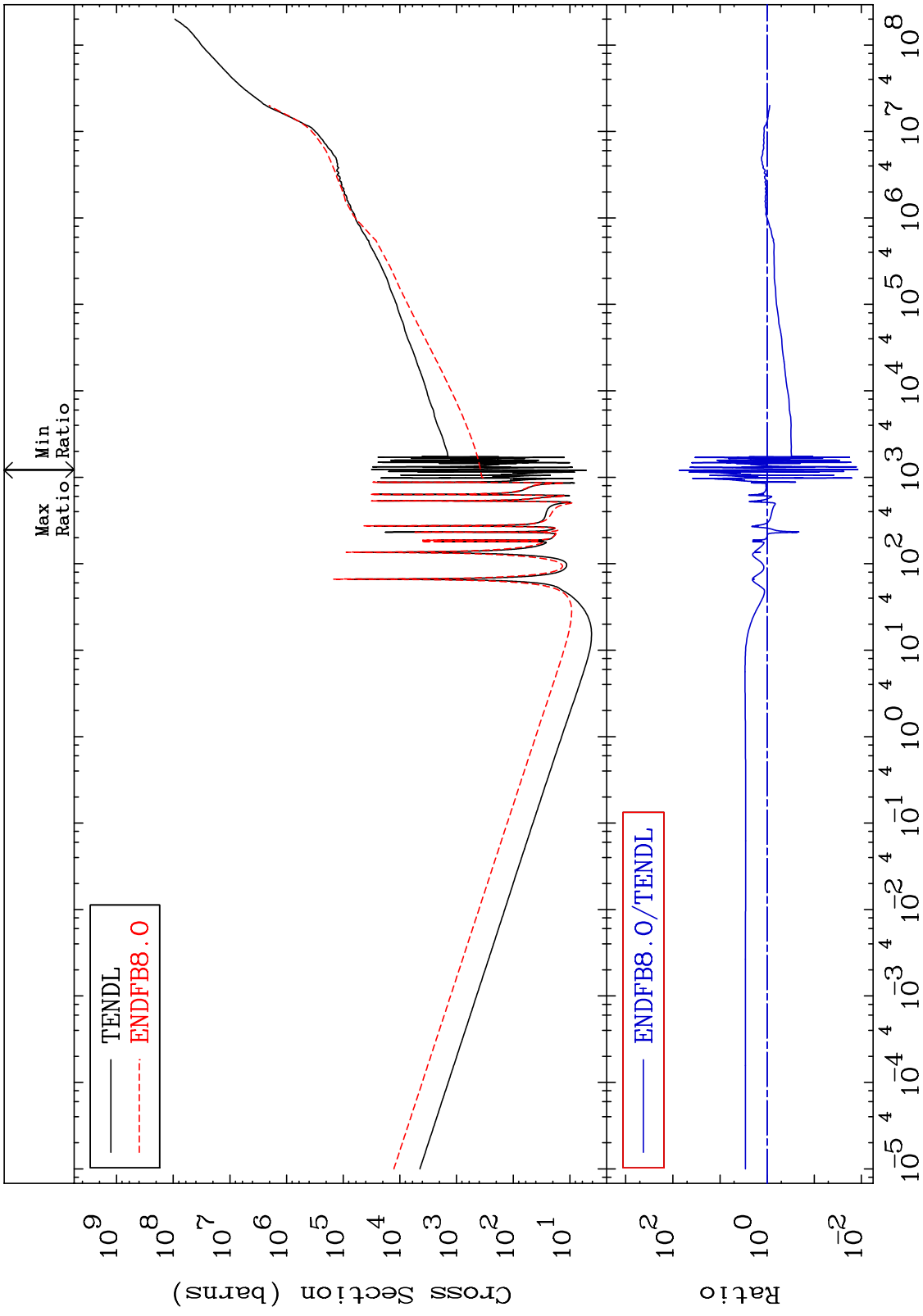
MAT 5825

Total photon (eV-barns)  
Cross Section

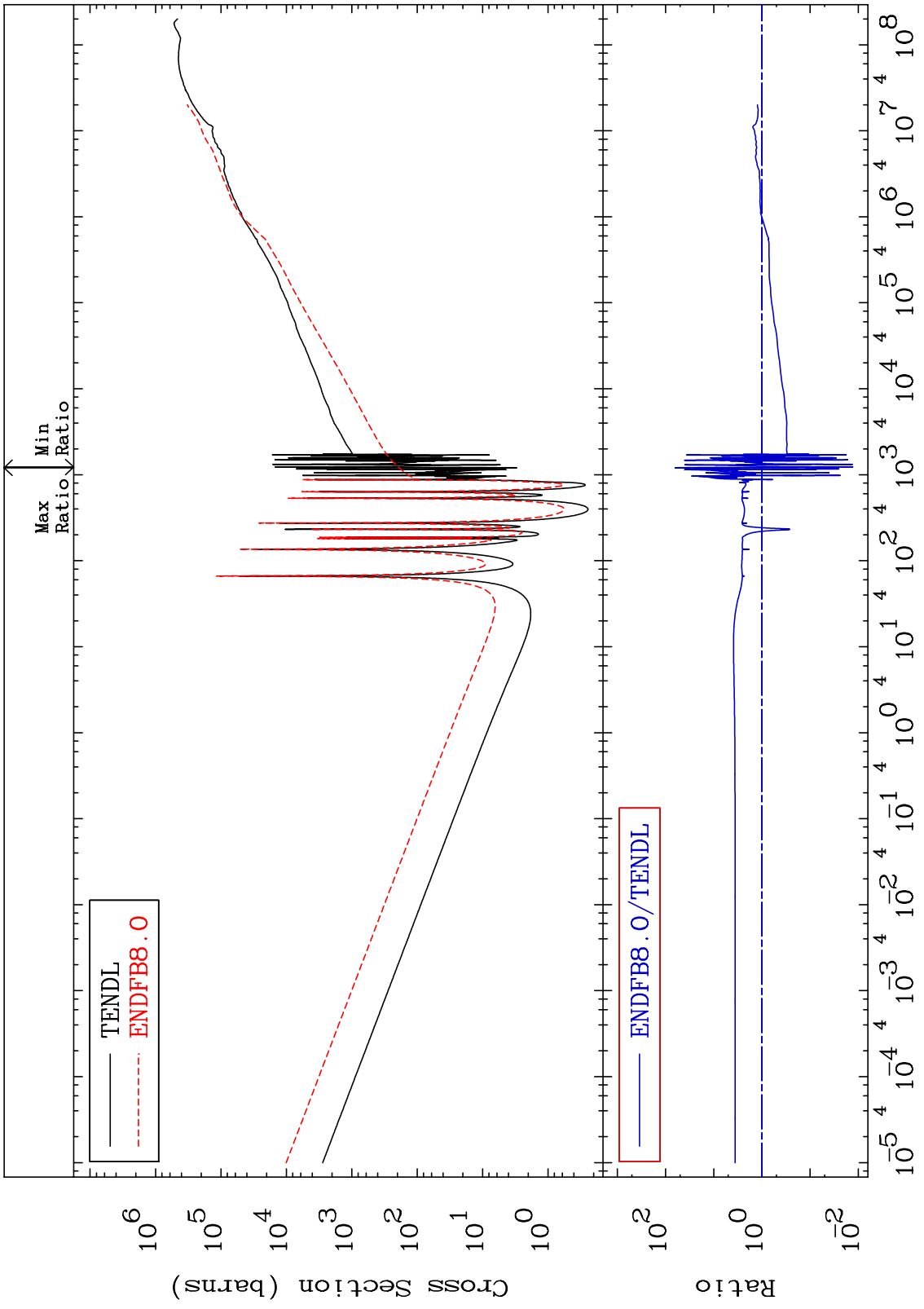
58-Ce-136  
-97.59 To 8819. %



MAT 5825      Total kinematic kerma (high limit)      58-Ce-136  
 Cross Section      -98.81 To 7289. %

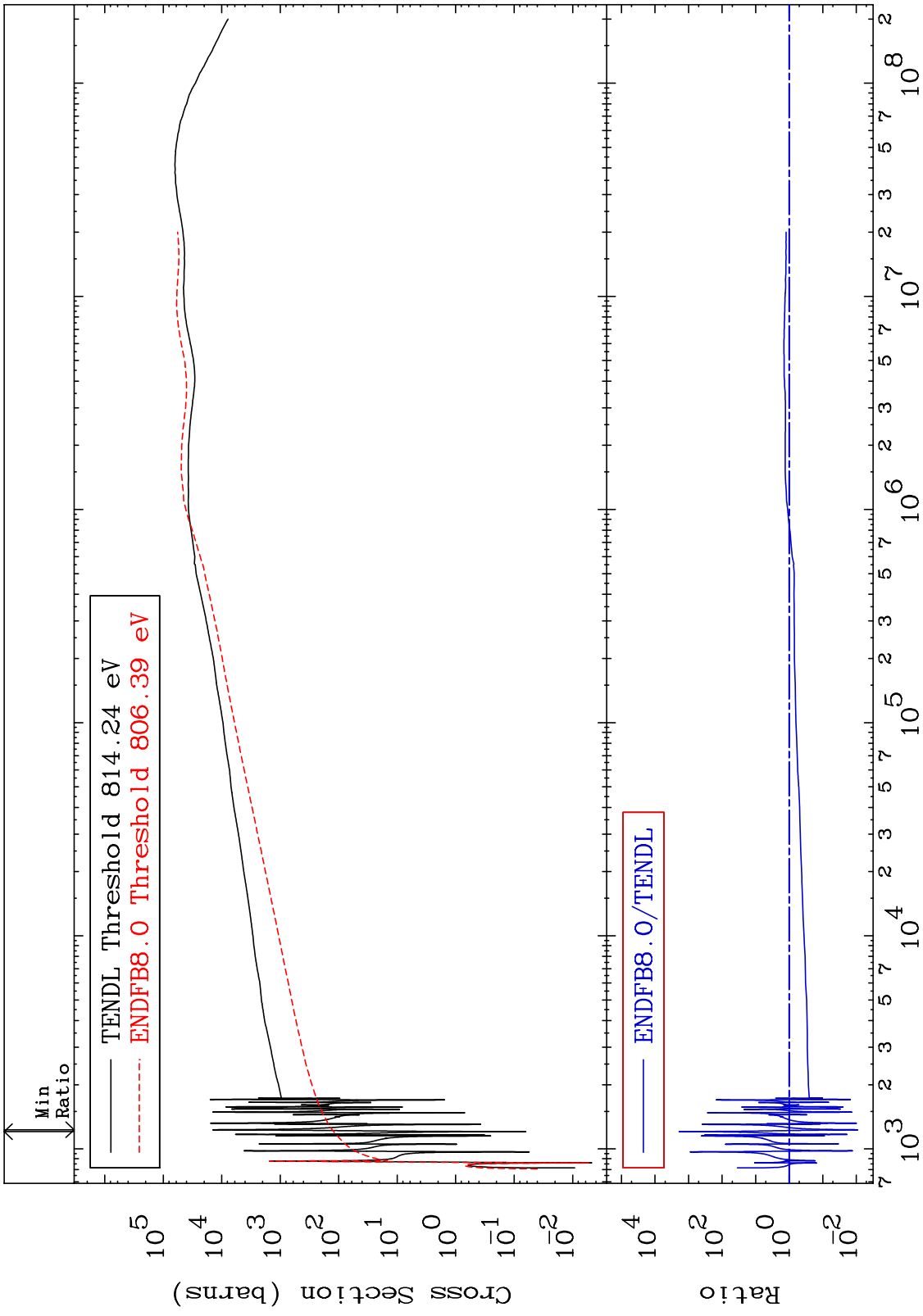


MAT 5825      Dpa total (eV-barns)      58-Ce-136      -98.69 To 6263. %



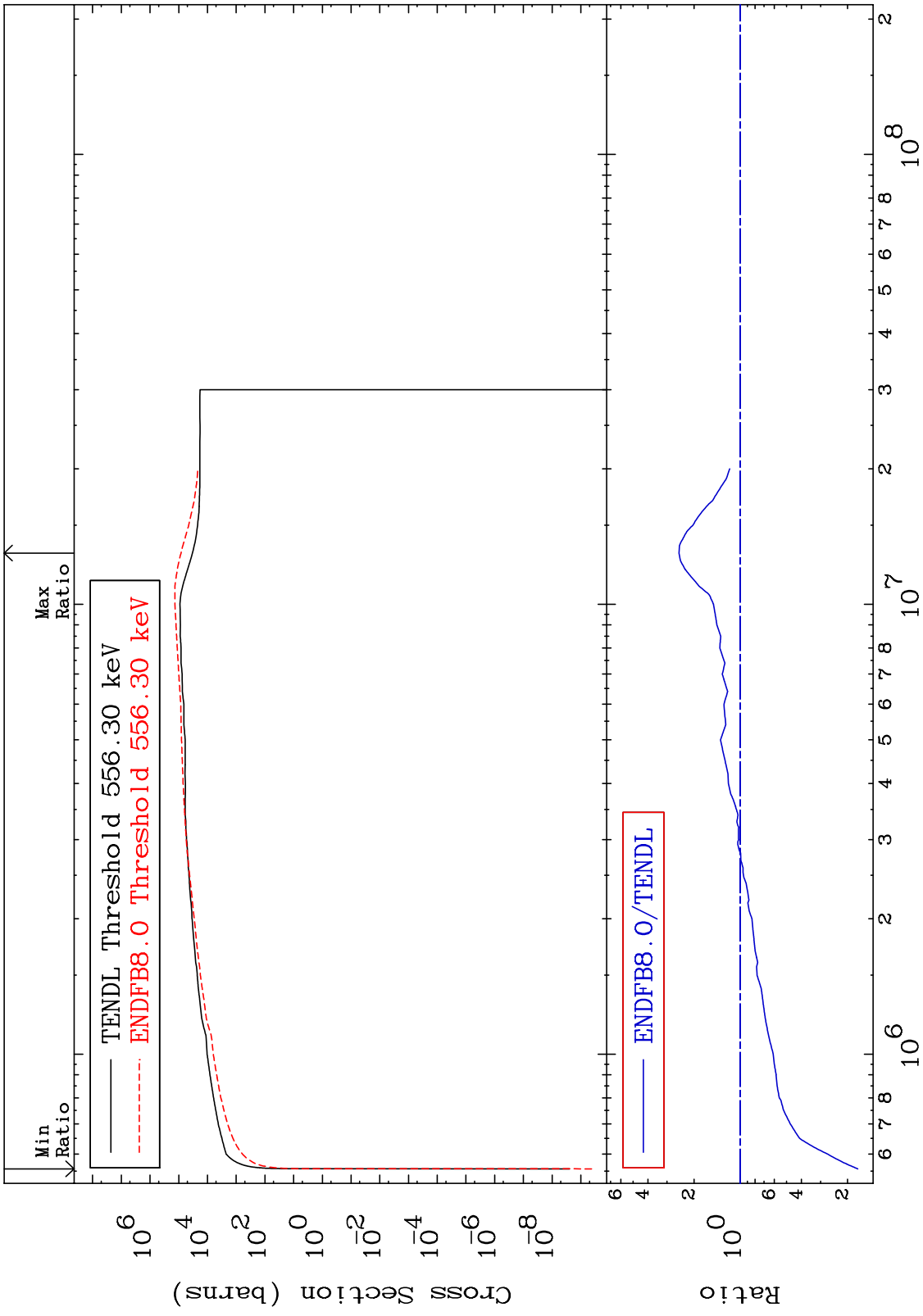
30      Incident Energy (eV)      58-Ce-136

MAT 5825      Dpa elastic (mt2)      58-Ce-136  
 Cross Section      -99.10 To 9999. %





MAT 5825      Dpa inelastic (mt51-91)      58-Ce-136  
 Cross Section      -82.86 To 150.5 %



MAT 5825      Dpa disappearance (mt102 -120)      58-Ce-136  
 Cross Section      -95.02 To 9999. %

