

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

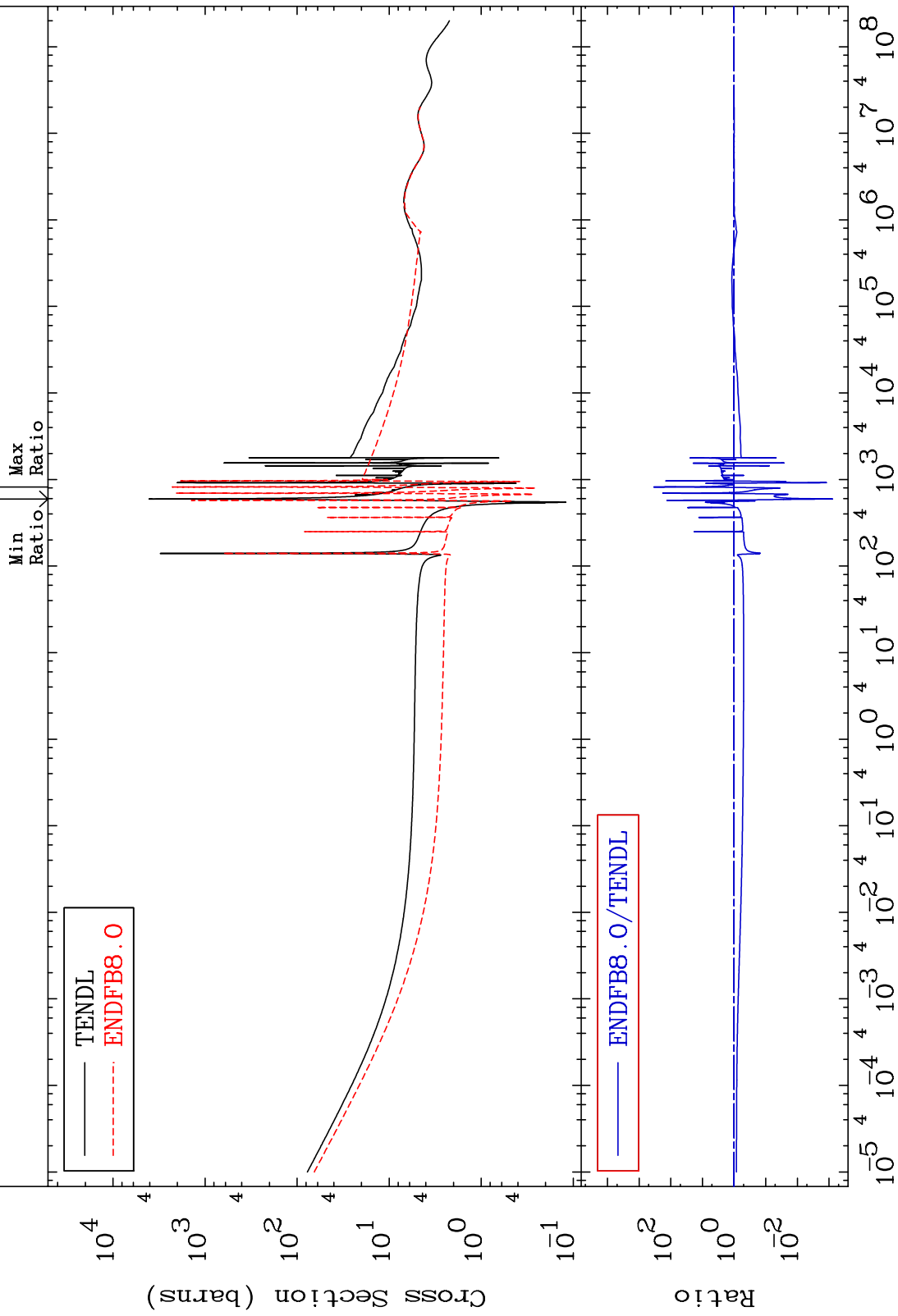
MAT 5831

Total

58-Ce-138

-99.92 To 9999. %

Cross Section



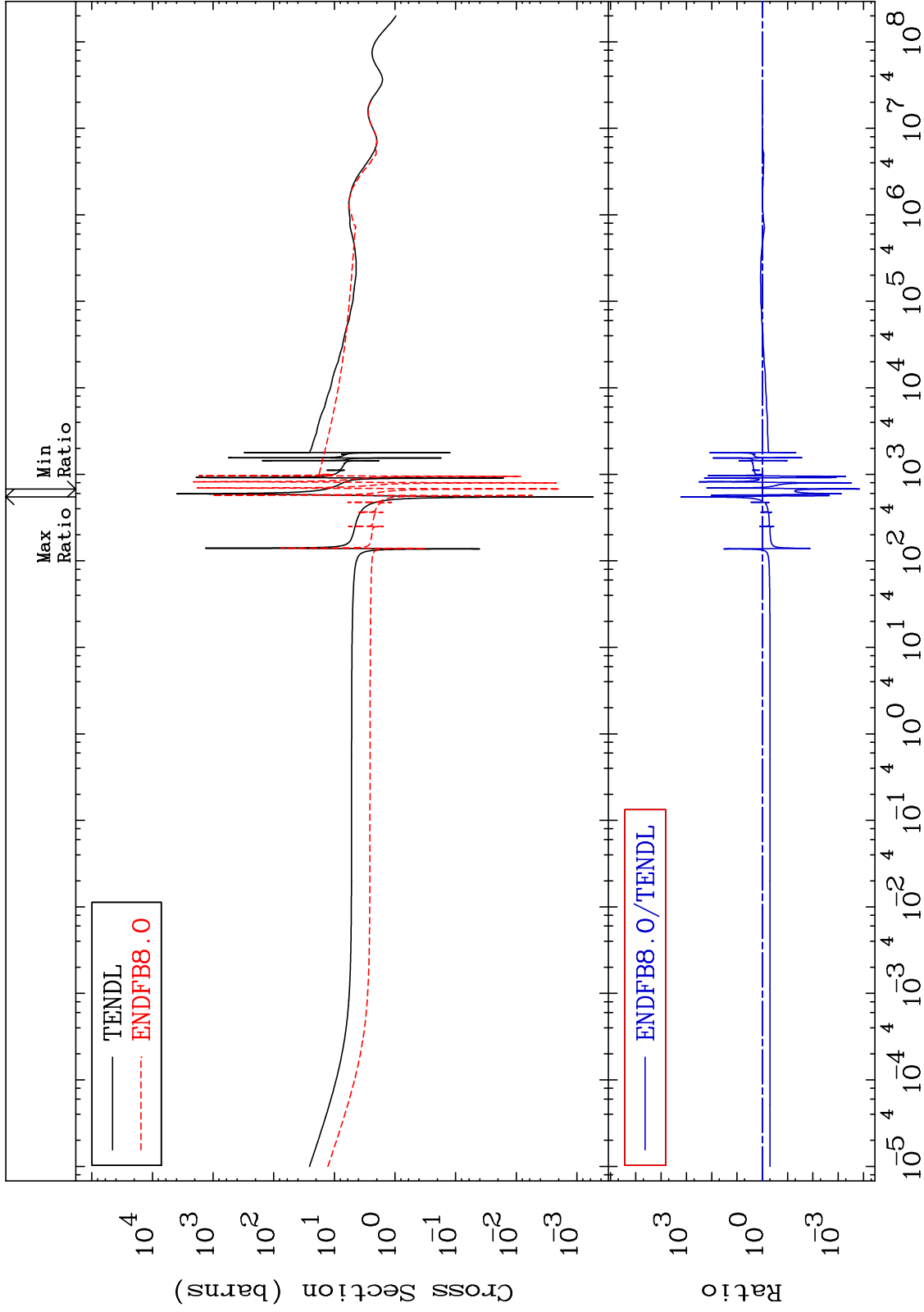
Incident Energy (eV)

58-Ce-138

MAT 5831

Elastic  
Cross Section

58-Ce-138  
-99.99 To 9999. %

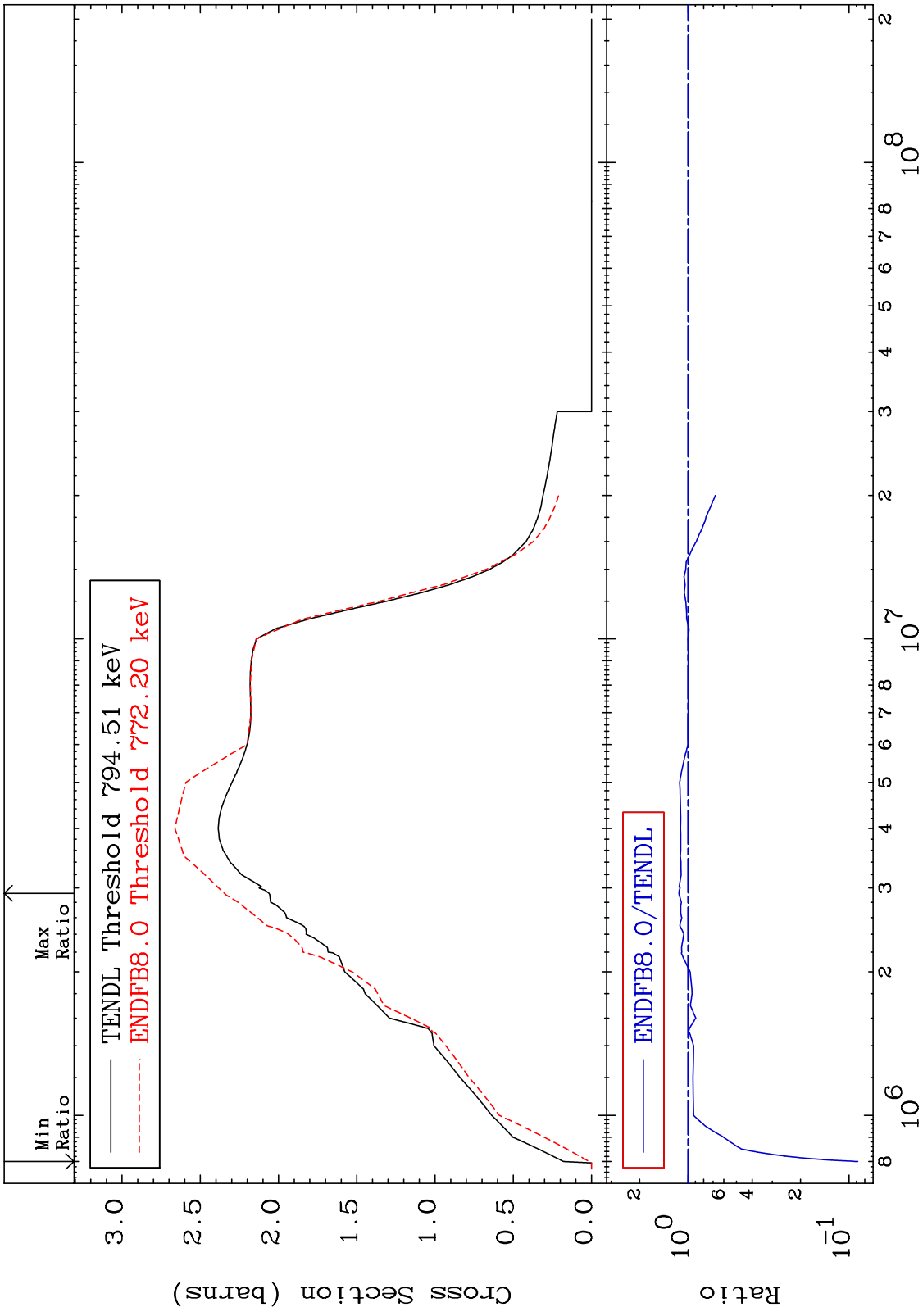


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Incident Energy (eV)

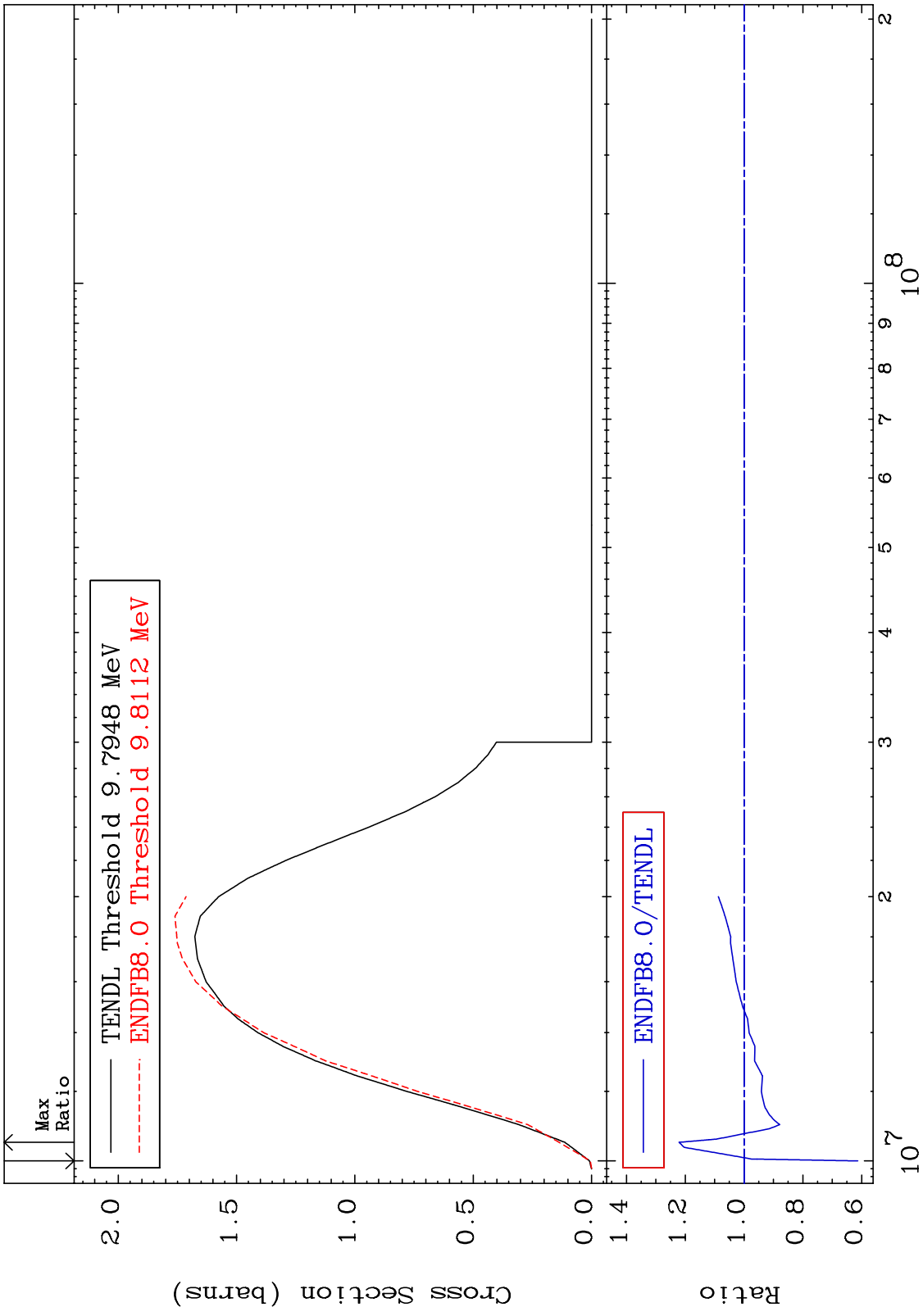
58-Ce-138

MAT 5831 Inelastic Cross Section 58-Ce-138 -91.18 To 13.80 %



3 Incident Energy (eV) 58-Ce-138

MAT 5831 (n,2n) Cross Section 58-Ce-138 -38.70 To 22.11 %



4 5 6 7 8 9 10<sup>8</sup> 2 58-Ce-138

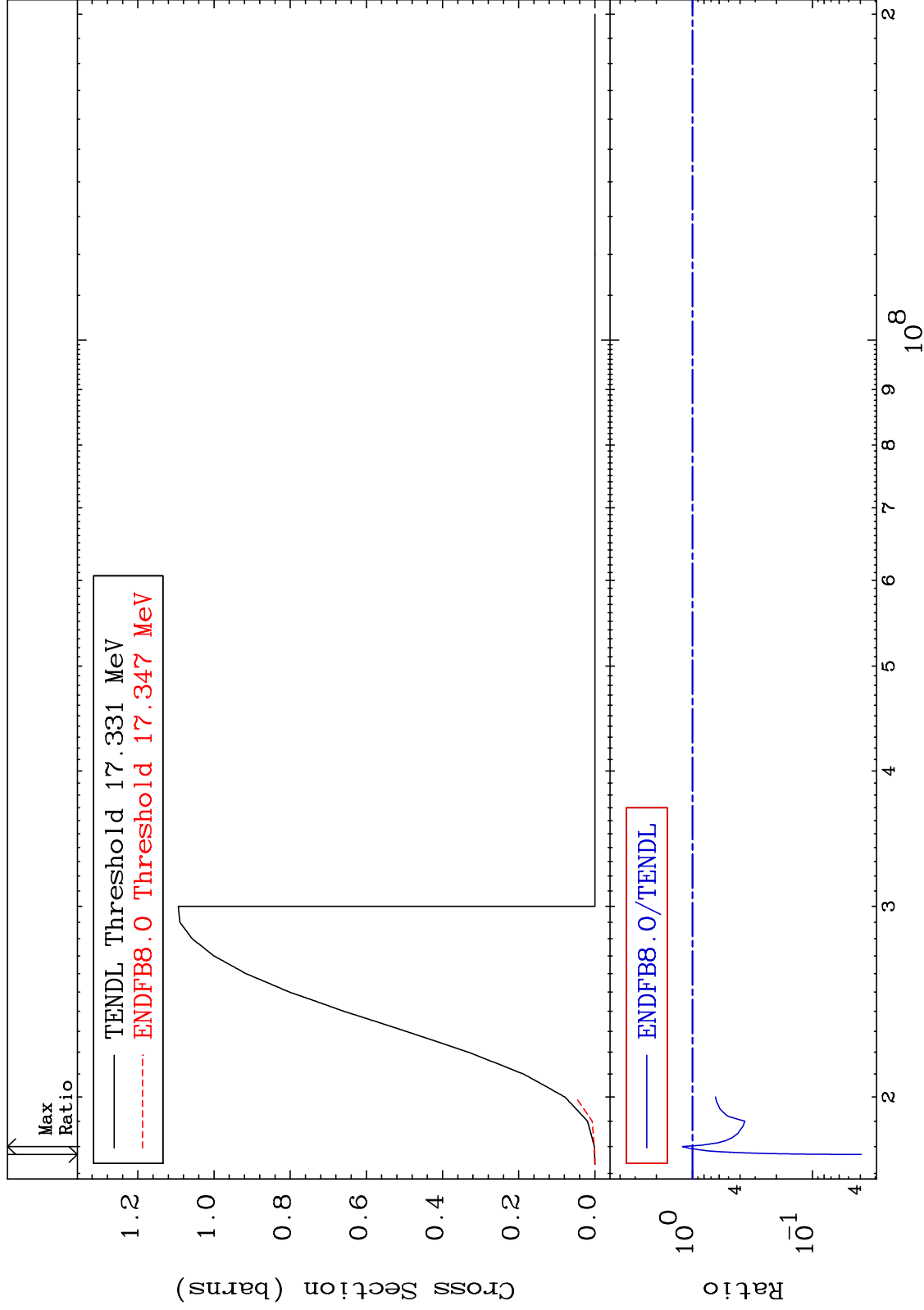
MAT 5831

(n,3n)

58-Ce-138

Cross Section

-96.08 To 21.08 %



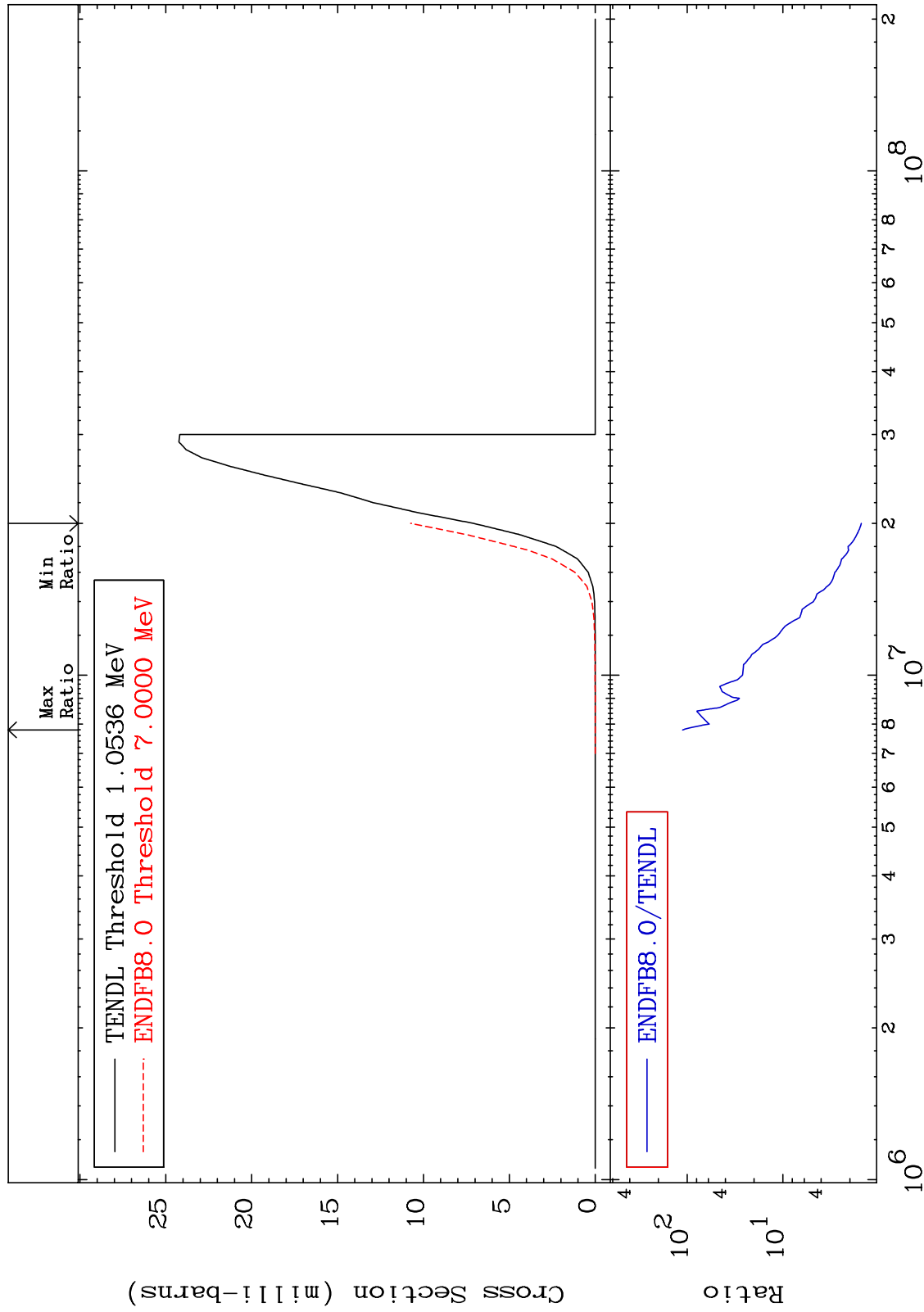
MAT 5831

(n,n')  $\alpha$

58-Ce-138

51.66 To 9999. %

Cross Section

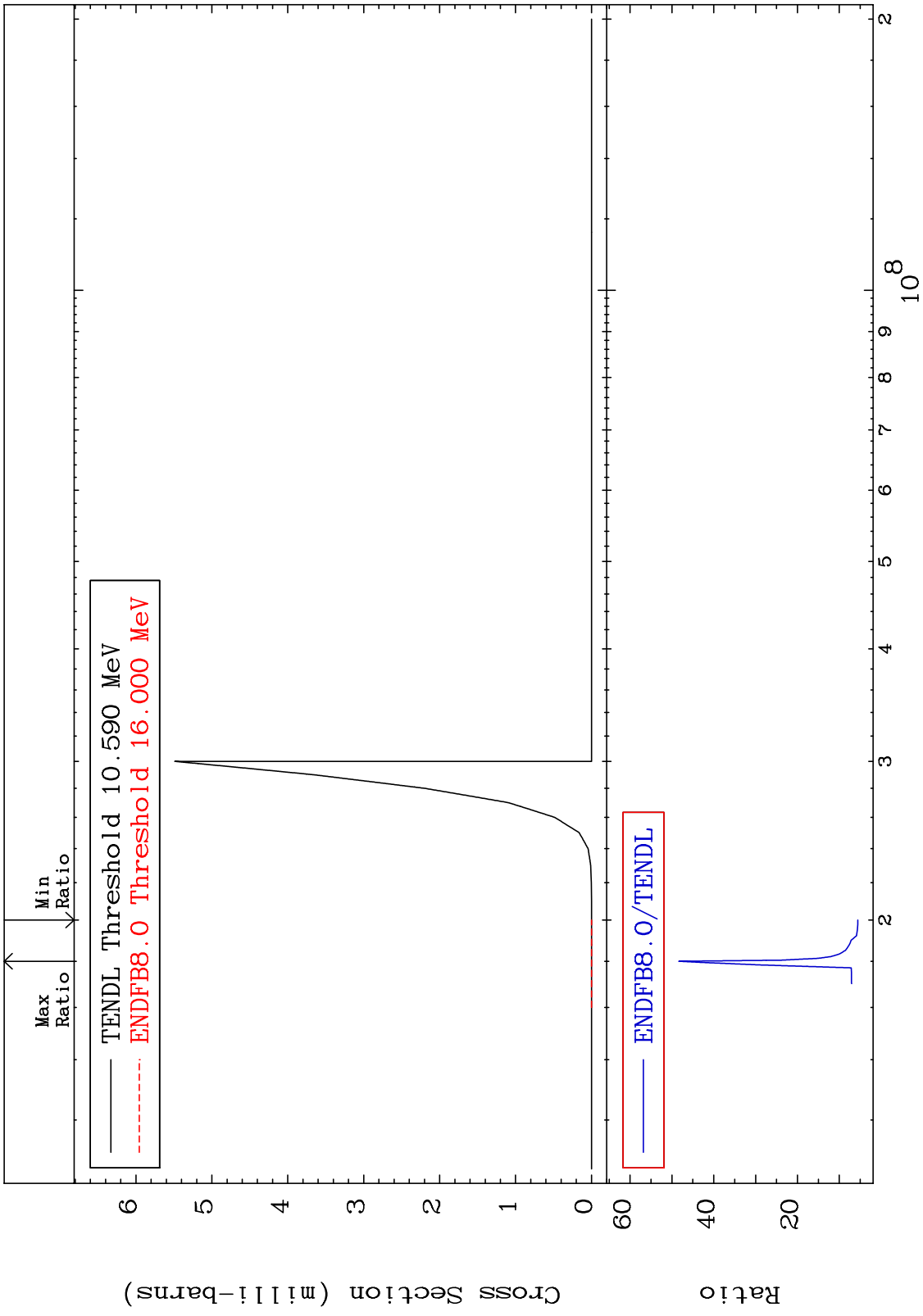


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Incident Energy (eV)

58-Ce-138

MAT 5831 (n,2n)  $\alpha$  58-Ce-138  
 Cross Section 457.3 To 4730. %

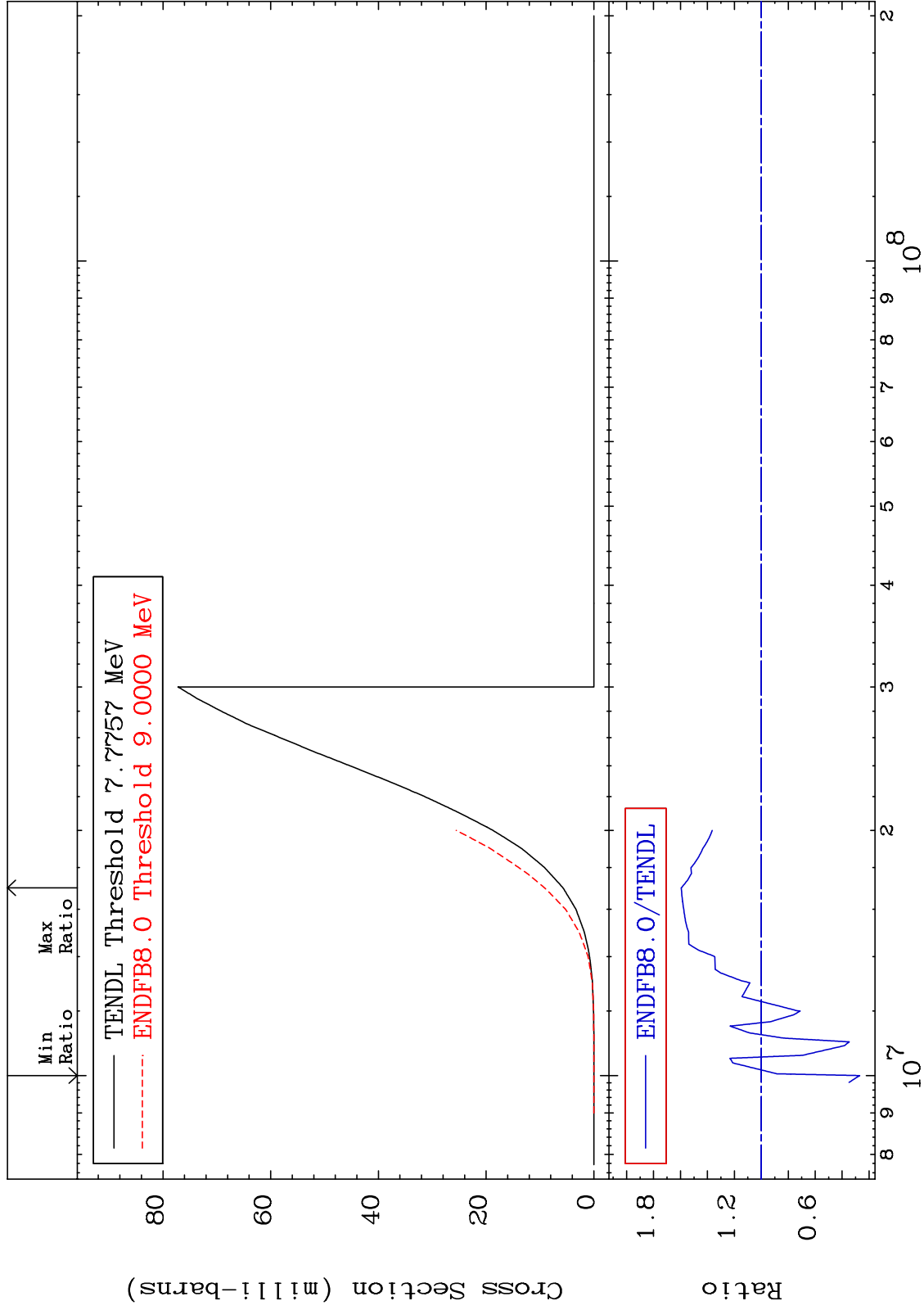




MAT 5831

(n,n') p  
Cross Section

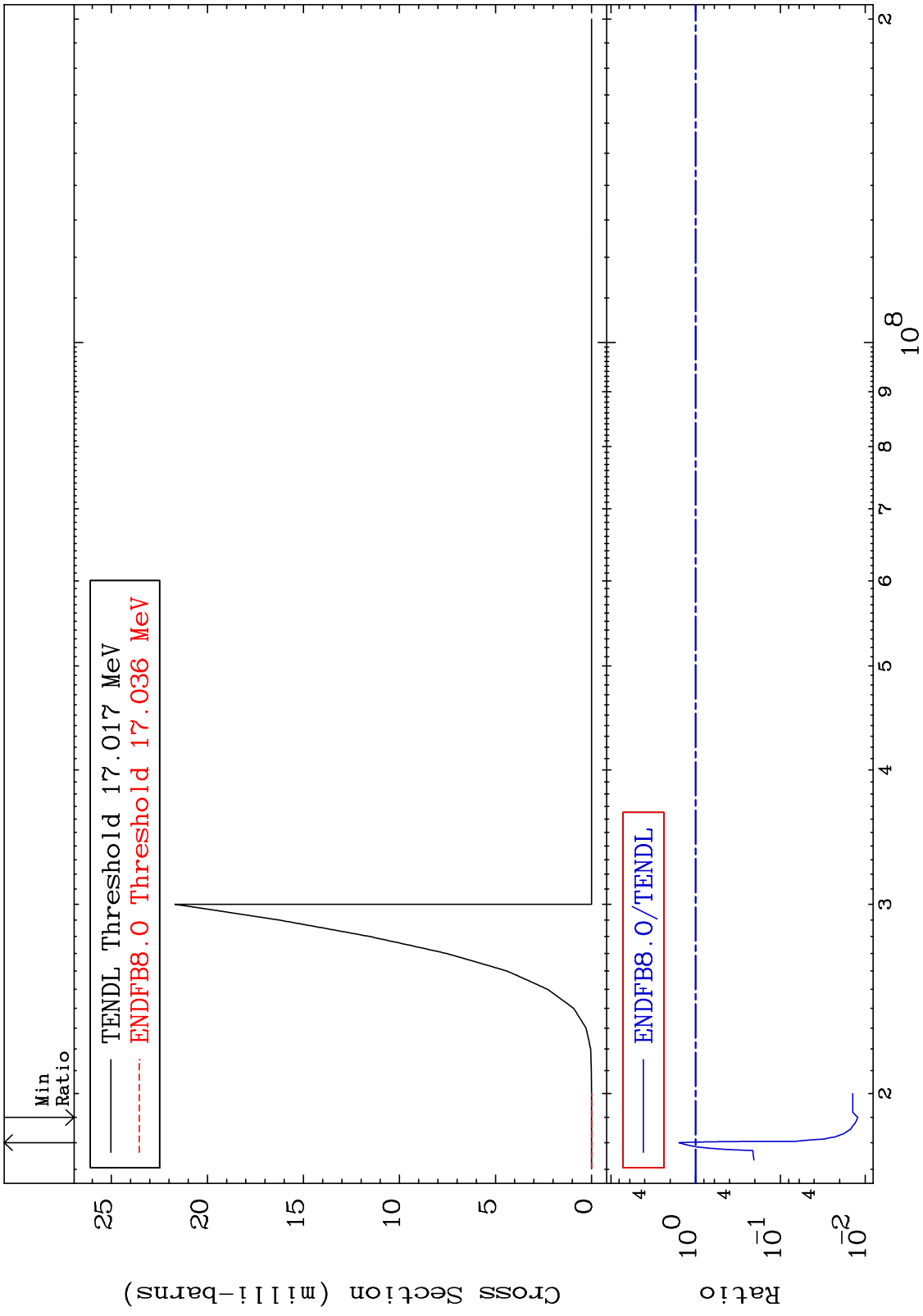
58-Ce-138  
-73.09 To 59.43 %



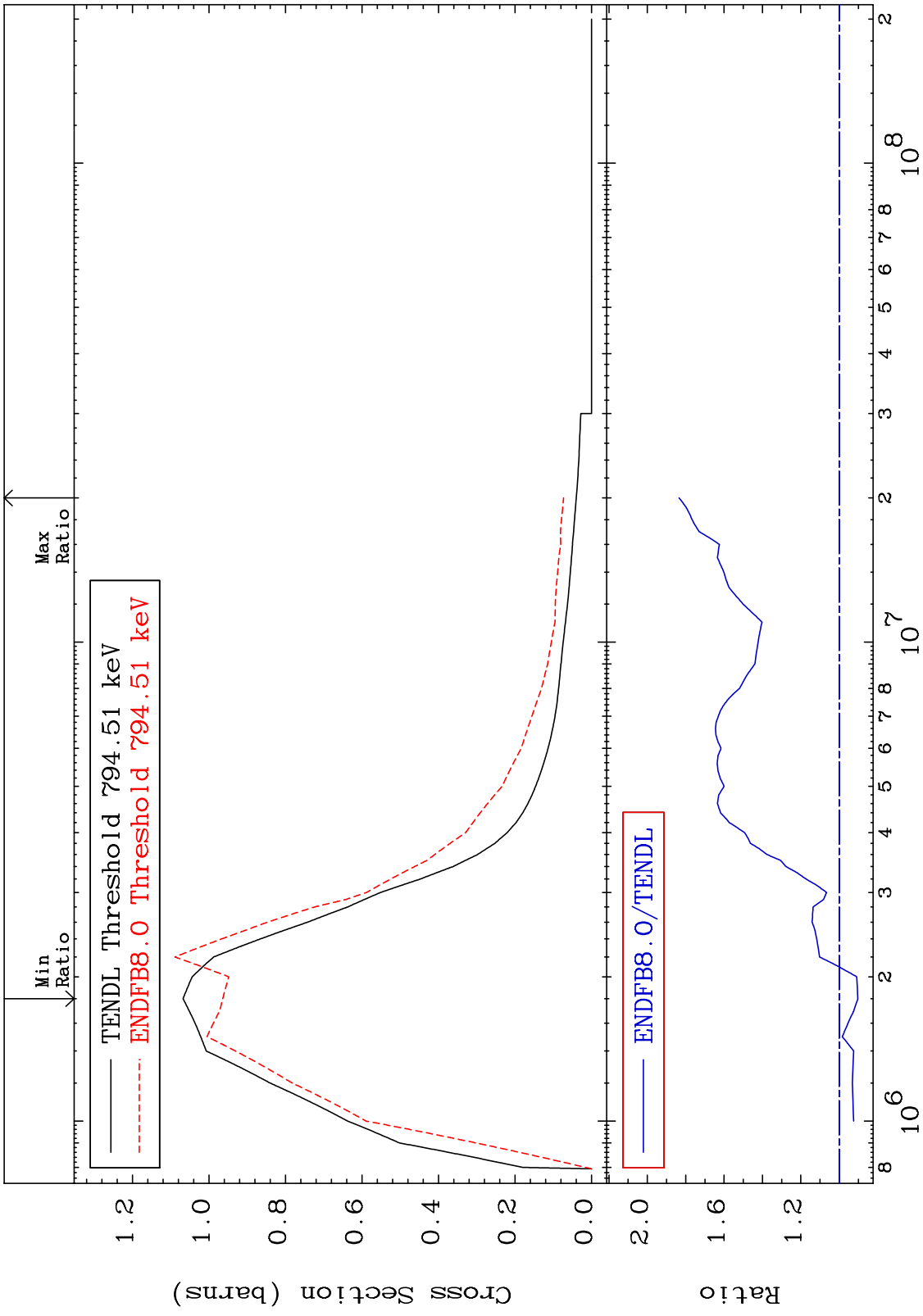
8

Incident Energy (eV)

58-Ce-138

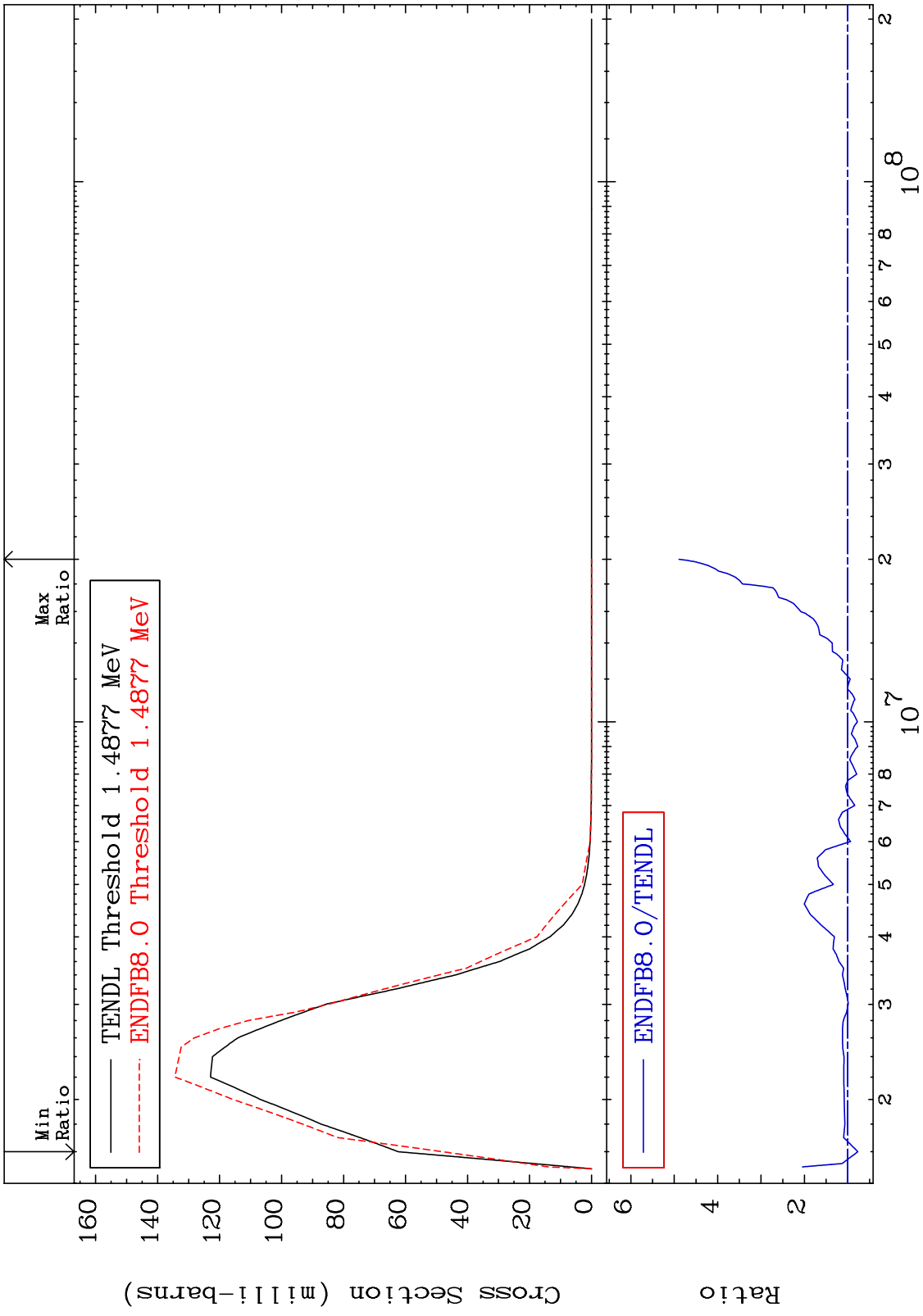


MAT 5831 MT= 51 (n,n') Level Cross Section 58-Ce-138 -9.720 To 83.47 %

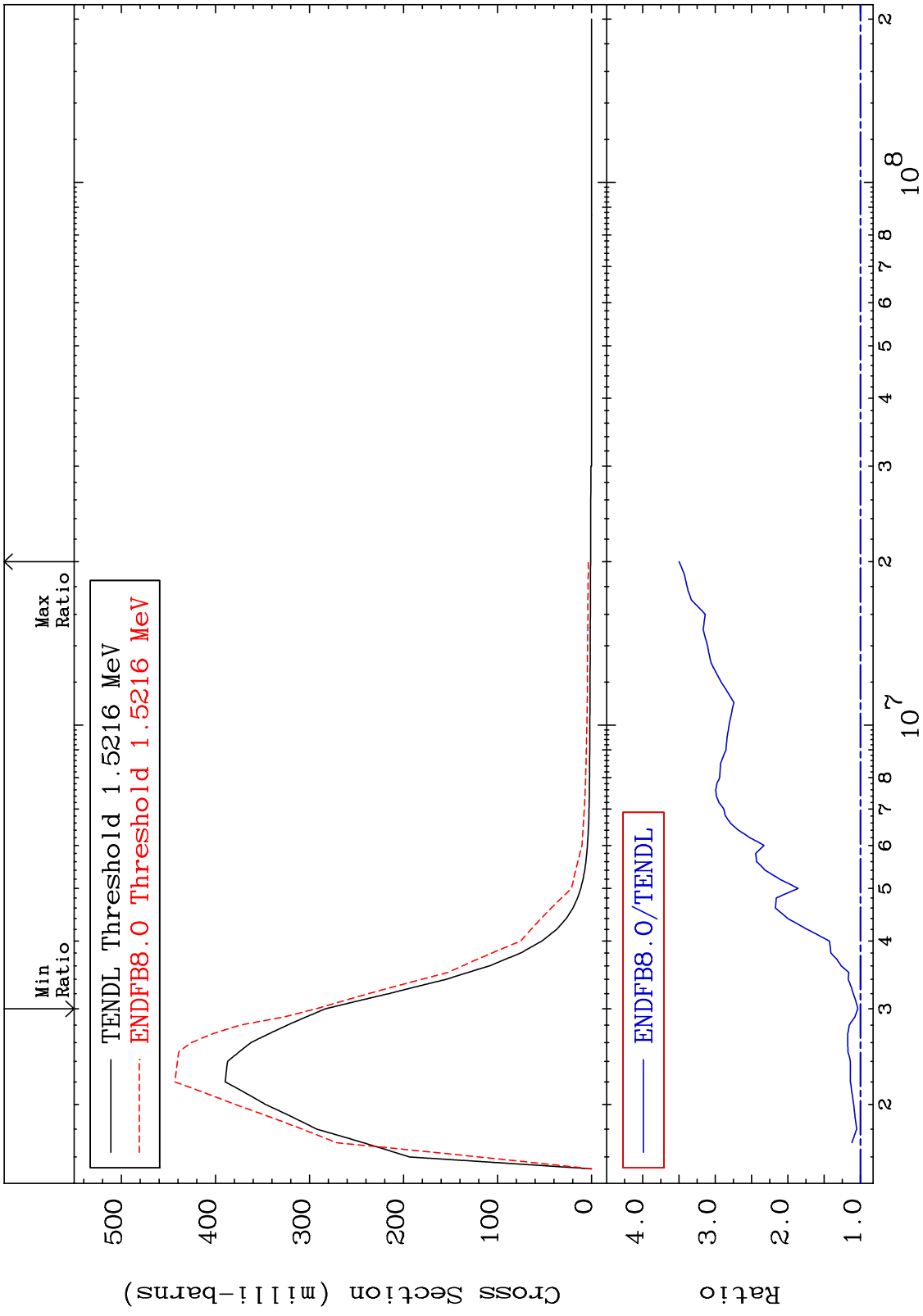


Incident Energy (eV) 58-Ce-138

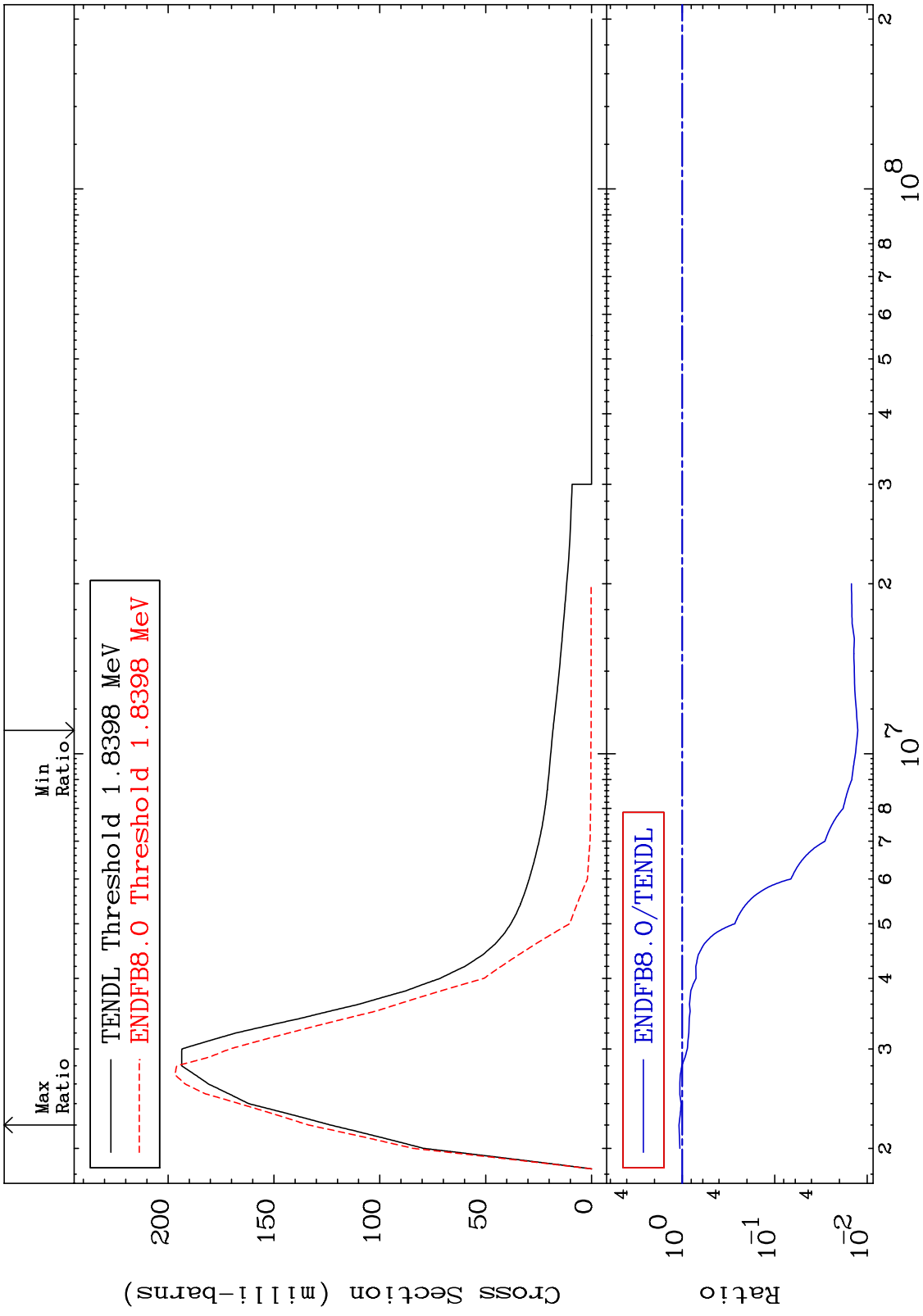
MAT 5831 MT= 52 (n,n') Level Cross Section 58-Ce-138 -23.06 To 388.9 %



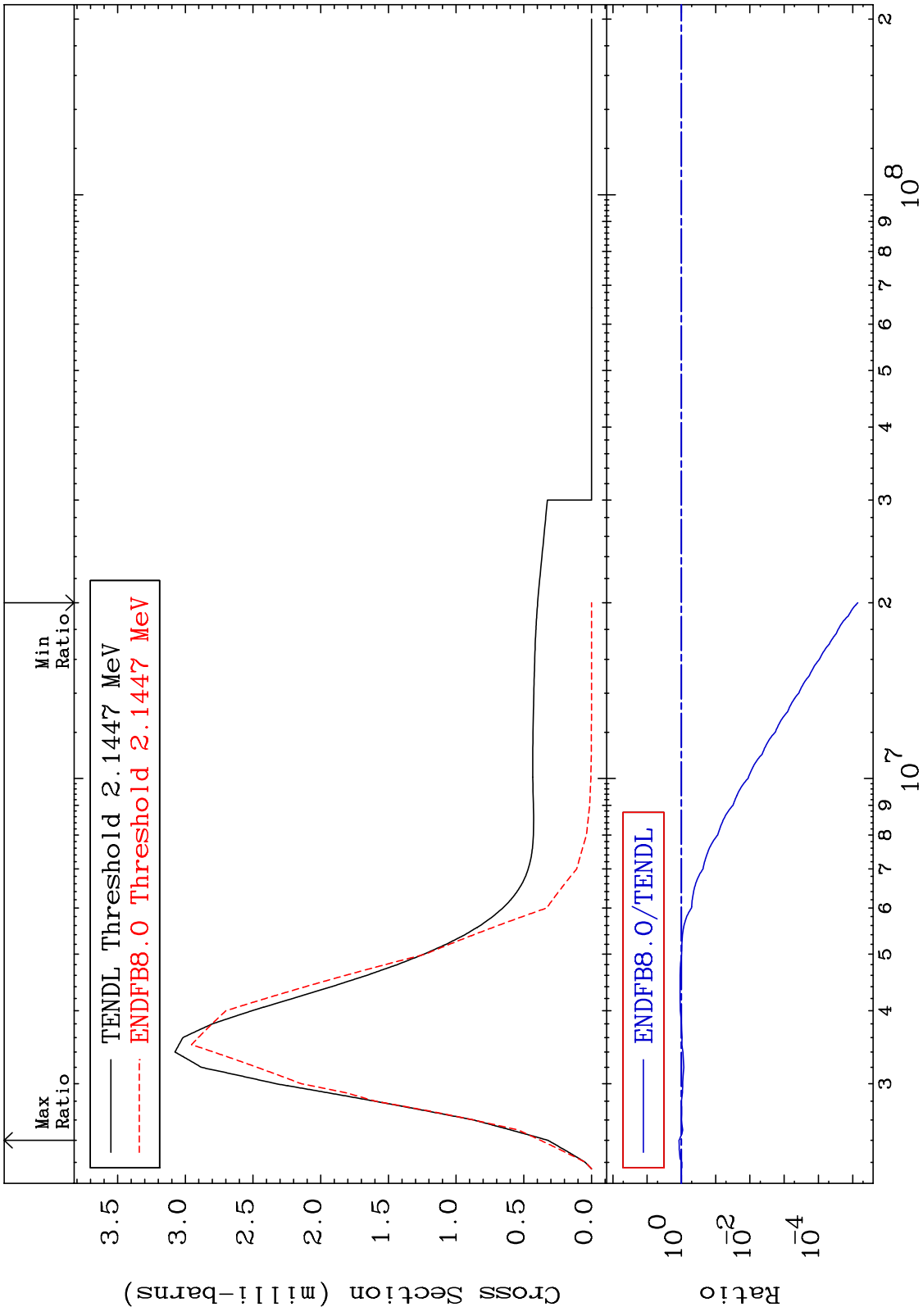
MAT 5831 MT= 53 (n,n') Level Cross Section 58-Ce-138 To 249.8 %



MAT 5831 MT= 54 (n,n') Level Cross Section 58-Ce-138  
 -98.74 To 8.403 %



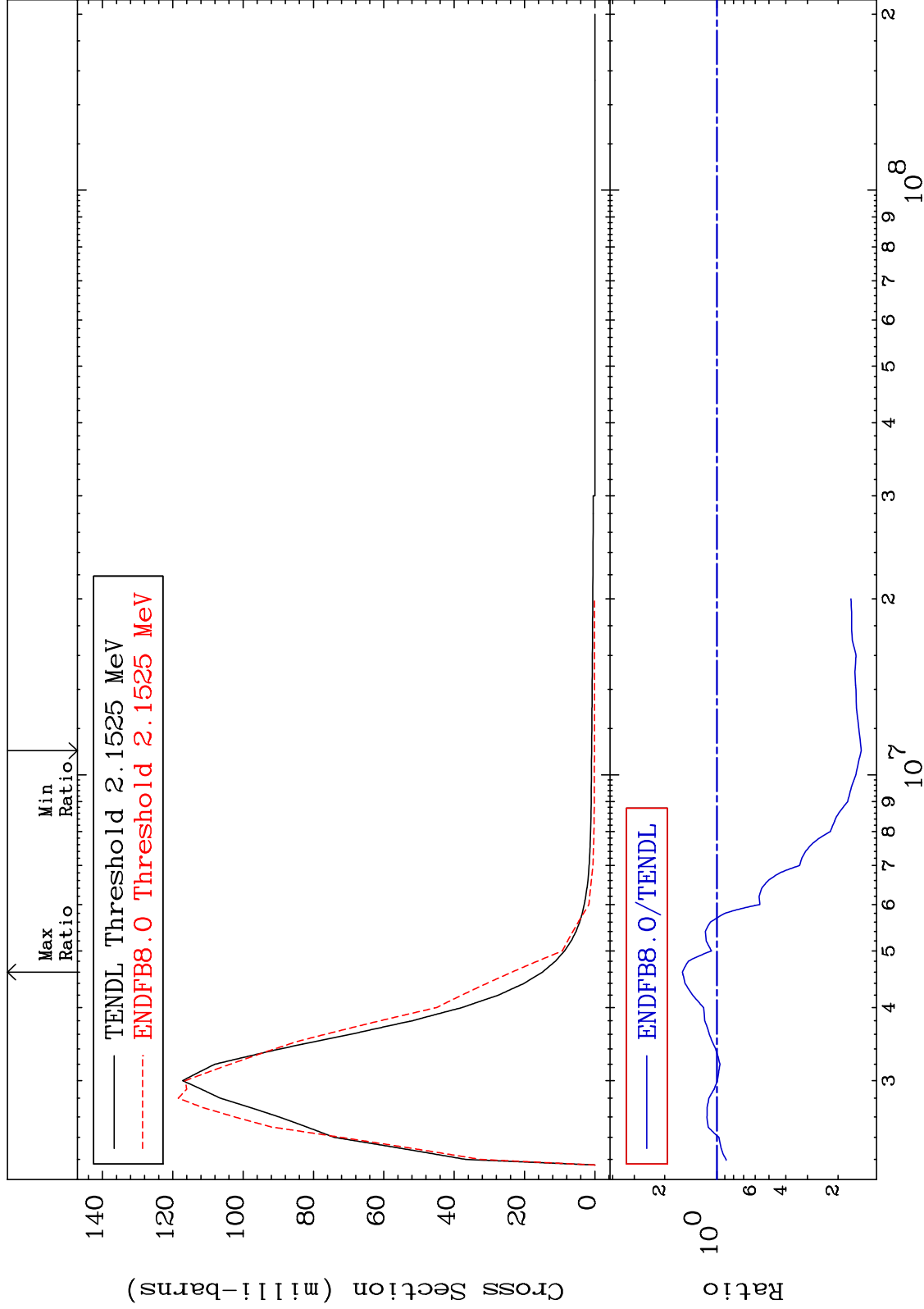
MAT 5831 MT= 55 (n,n') Level Cross Section 58-Ce-138  
 -100.0 To 17.13 %



MAT 5831

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

58-Ce-138  
-85.33 To 57.99 %

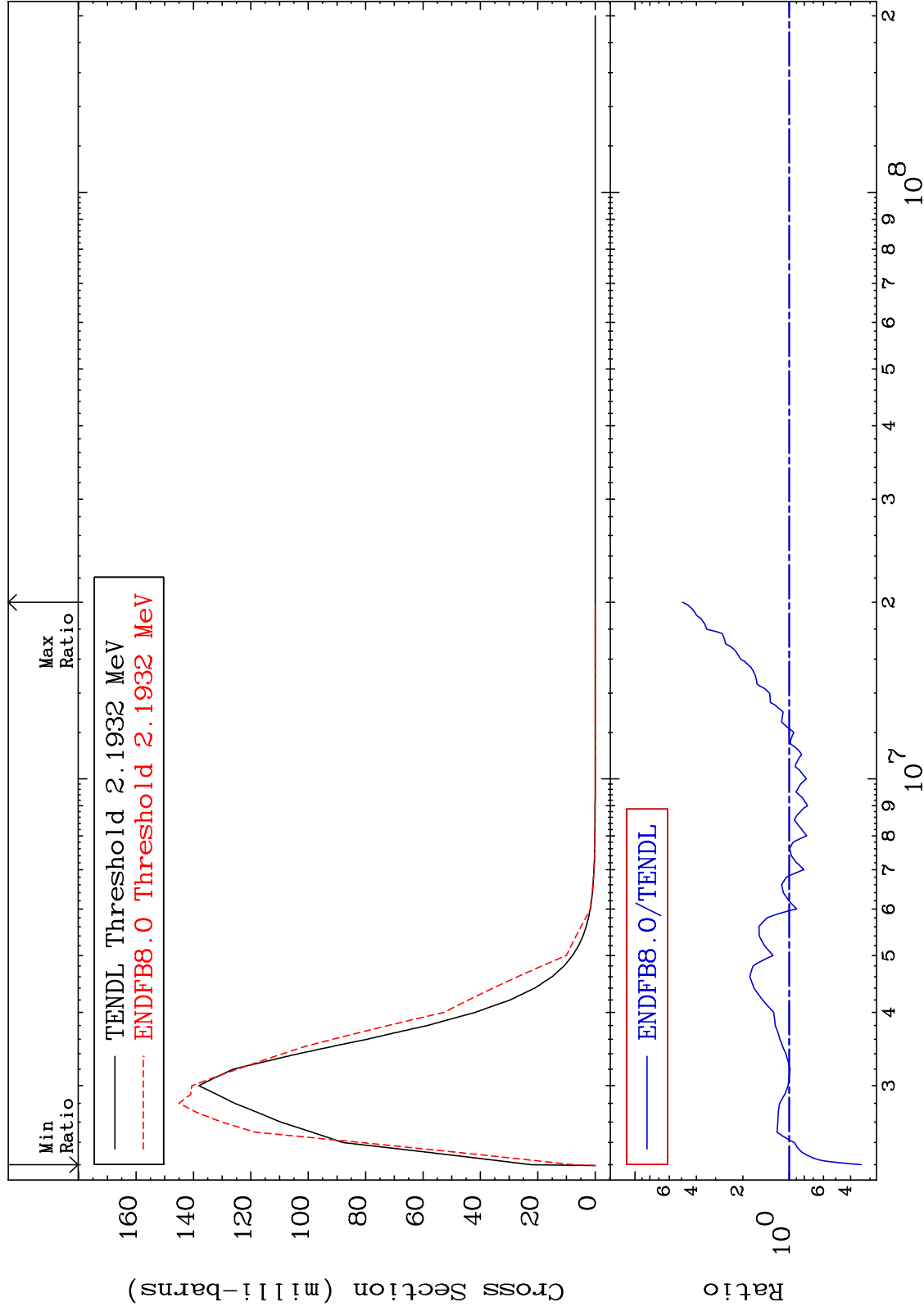




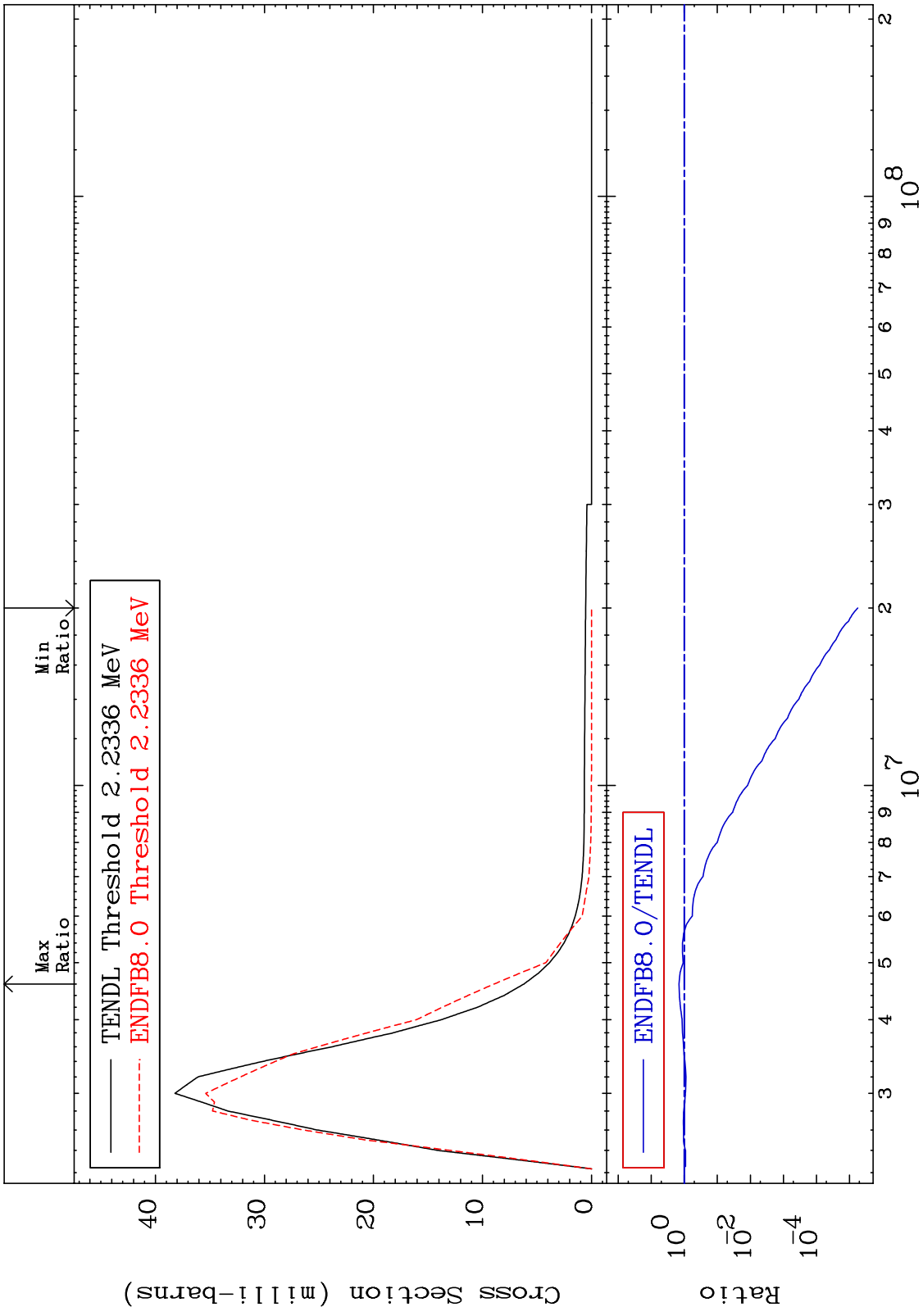
MAT 5831

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

58-Ce-138  
-65.88 To 390.8 %



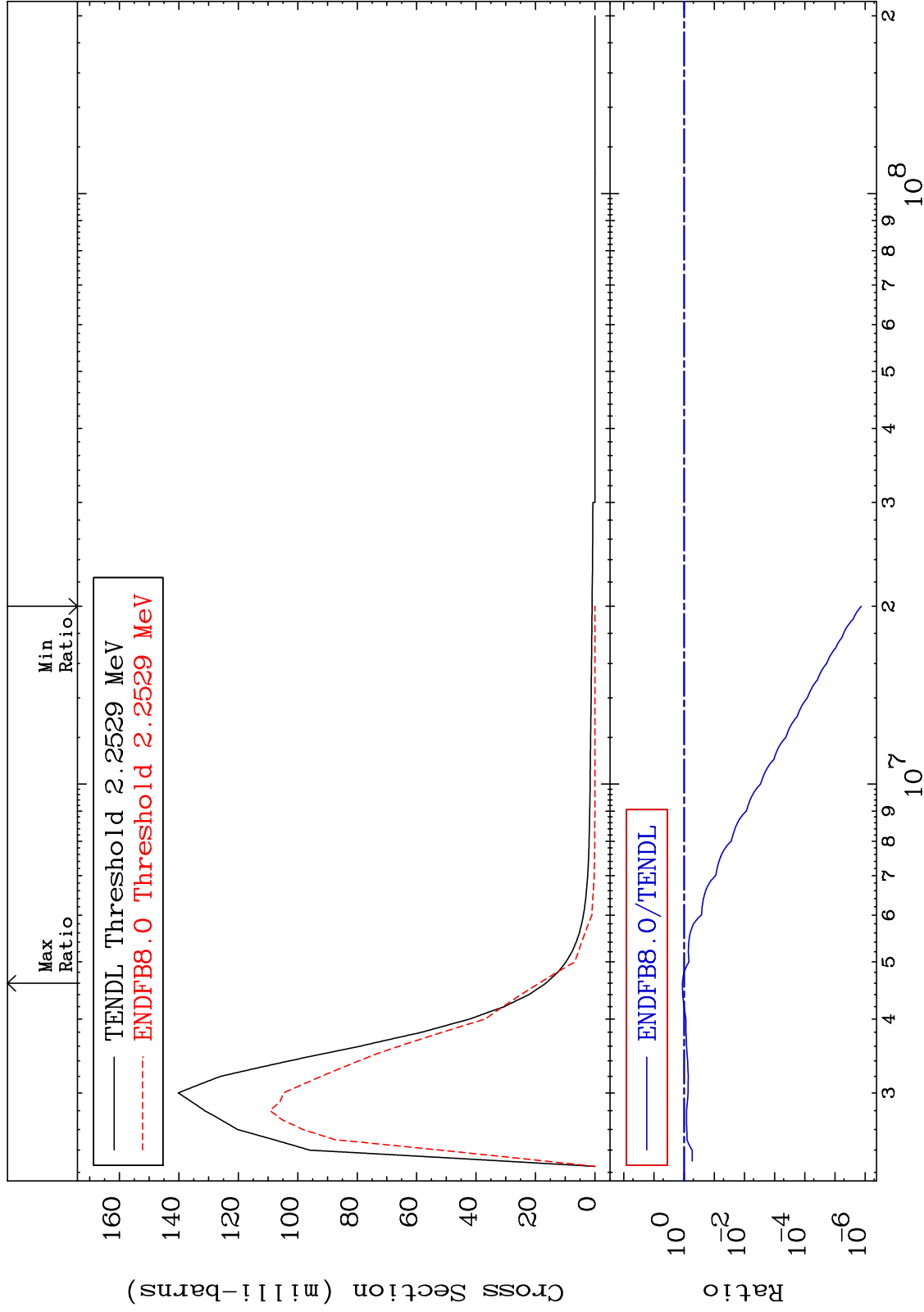
MAT 5831 MT= 58 (n,n') Level Cross Section 58-Ce-138  
 -100.0 To 44.21 %



MAT 5831

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

58-Ce-138  
-100.0 To 14.10 %

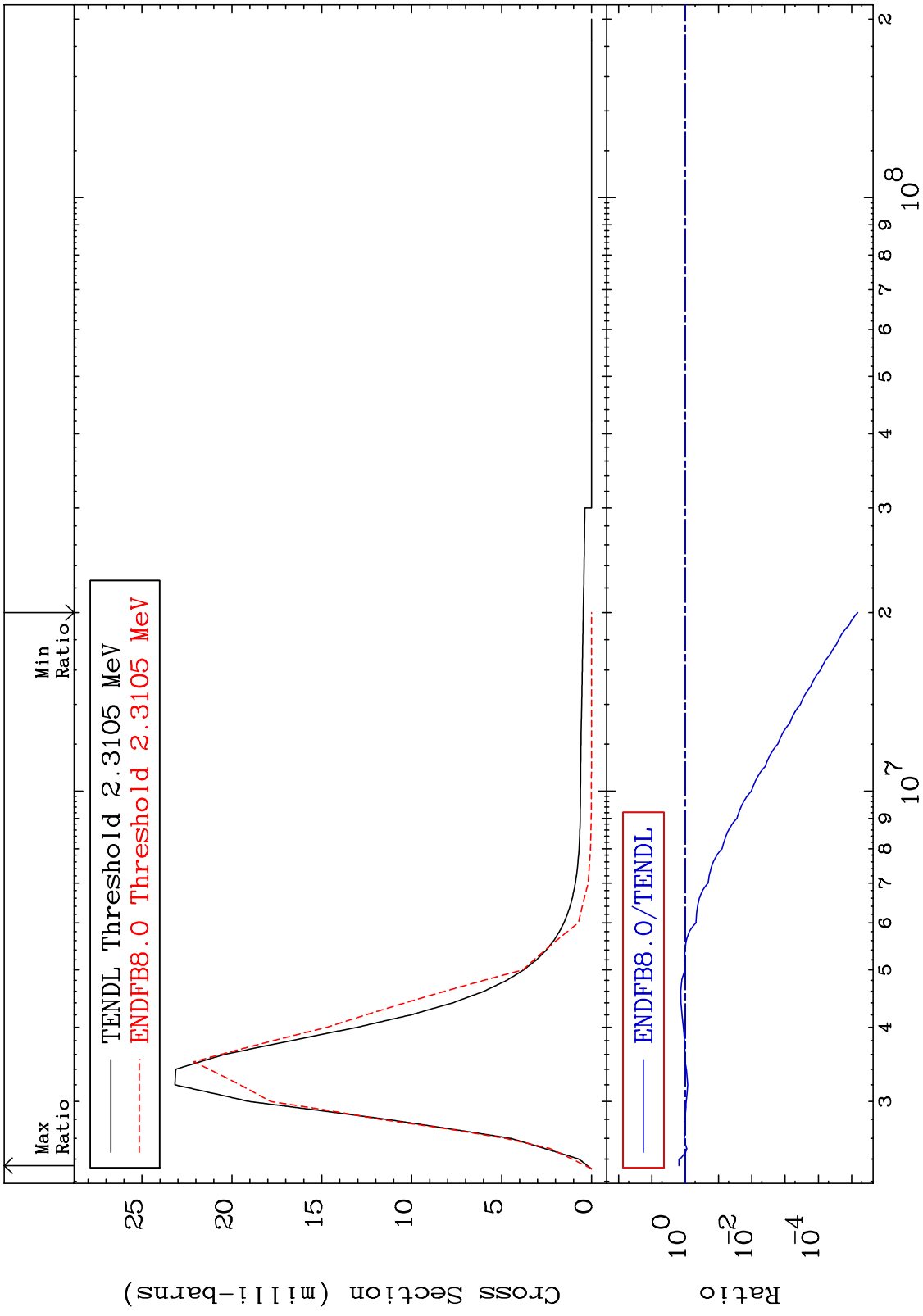


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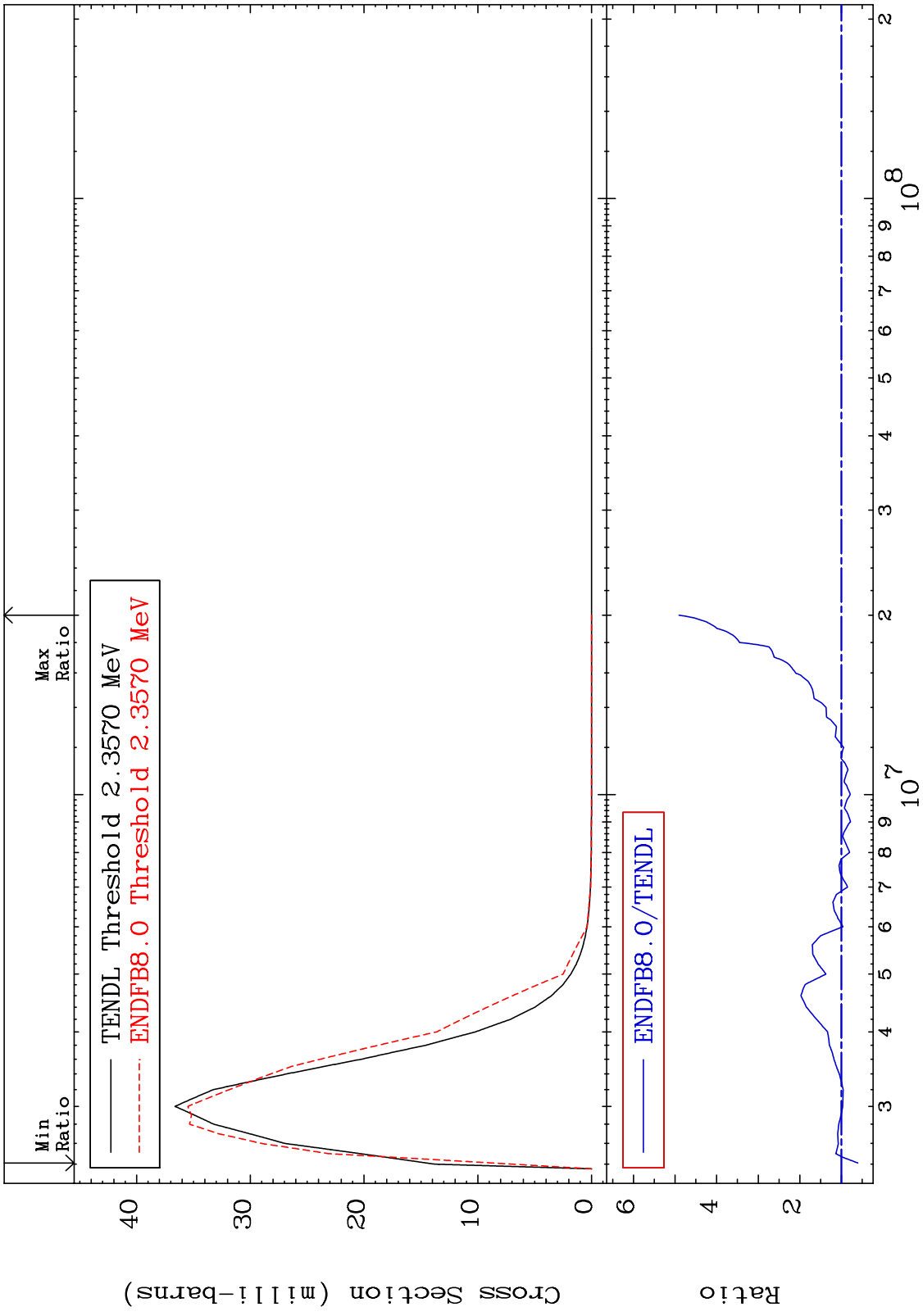
Incident Energy (eV)

58-Ce-138

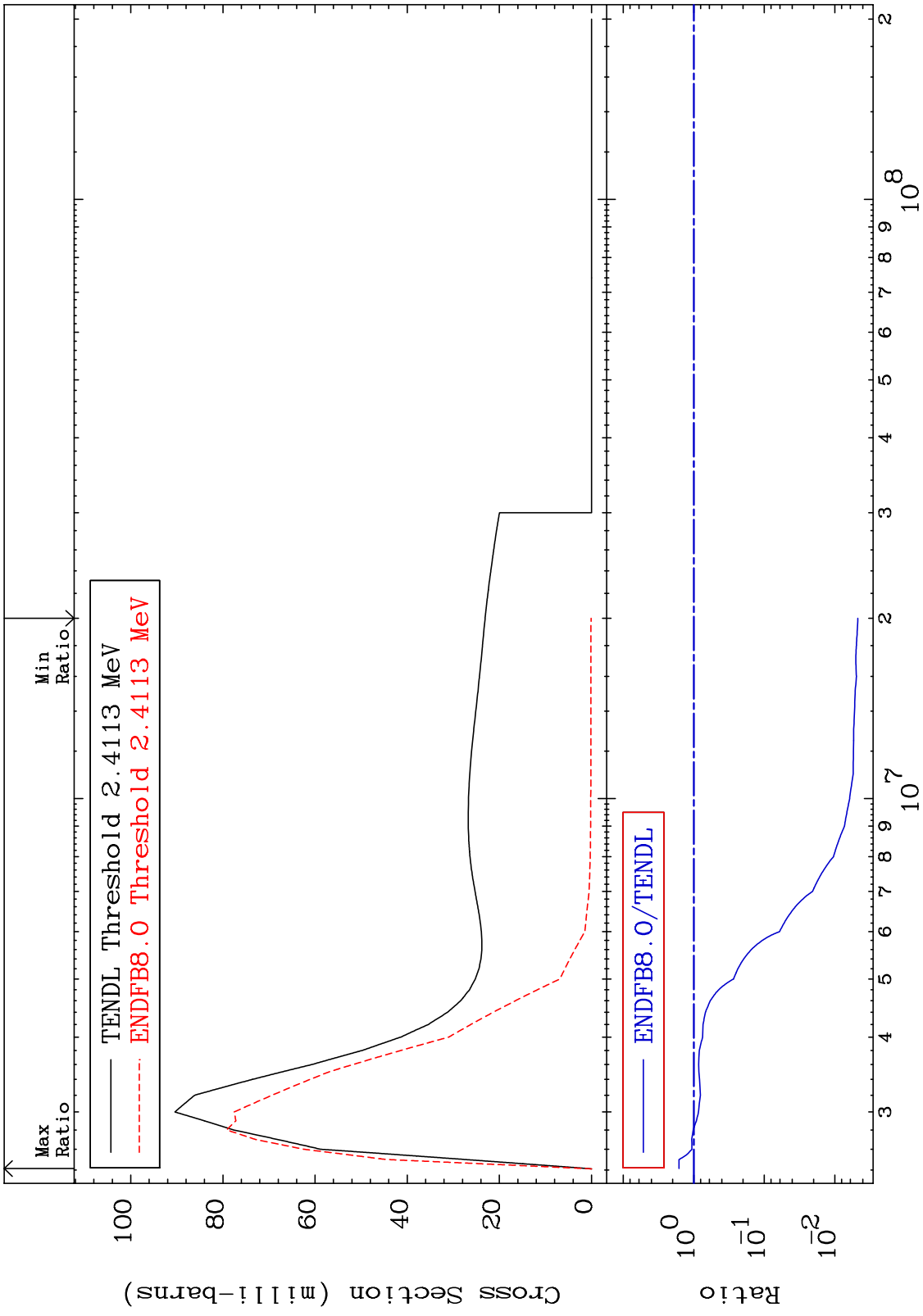
MAT 5831 MT= 60 (n,n') Level Cross Section 58-Ce-138 -100.0 To 53.20 %



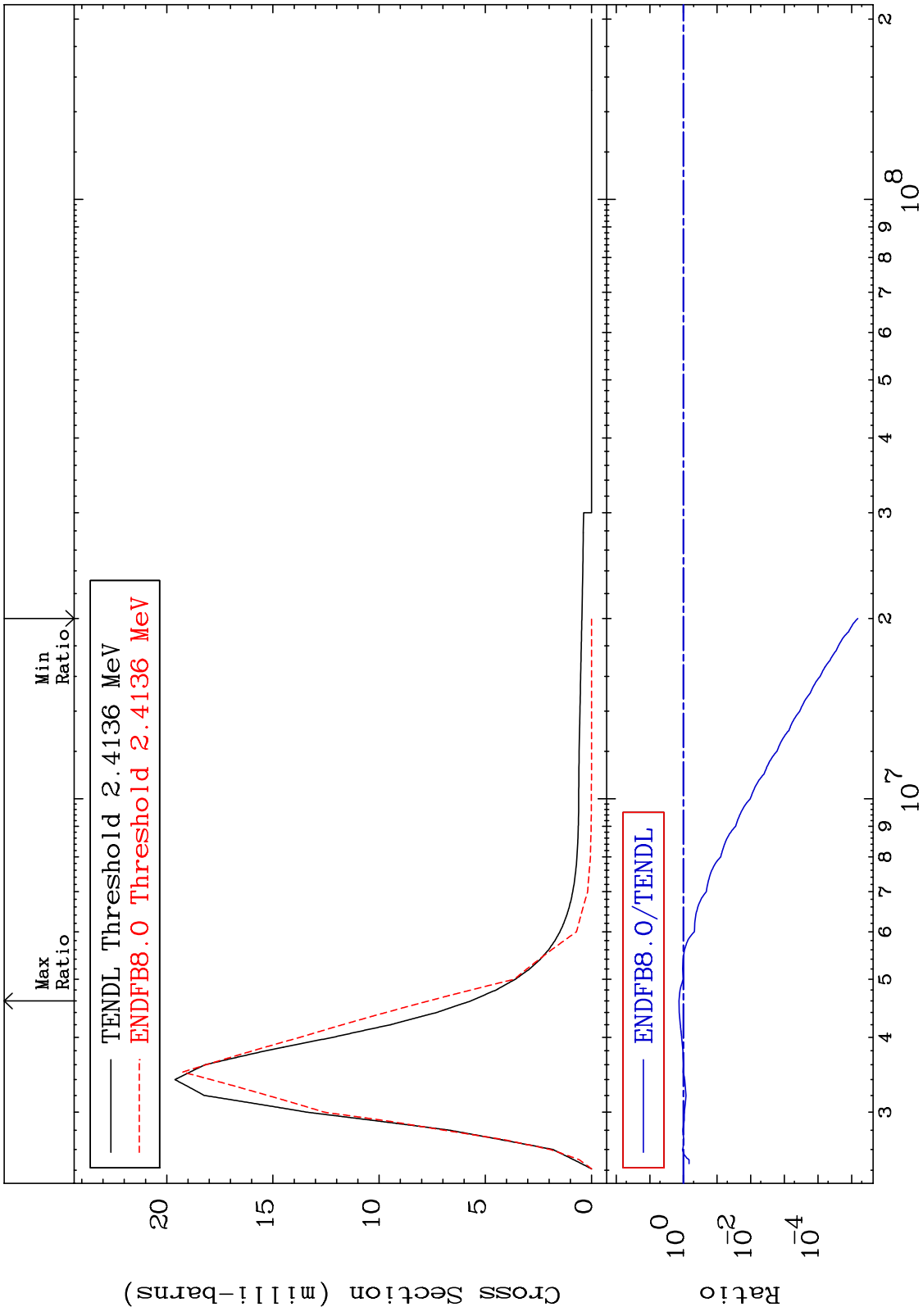
MAT 5831 MT= 61 (n,n') Level Cross Section 58-Ce-138 -39.48 To 390.4 %



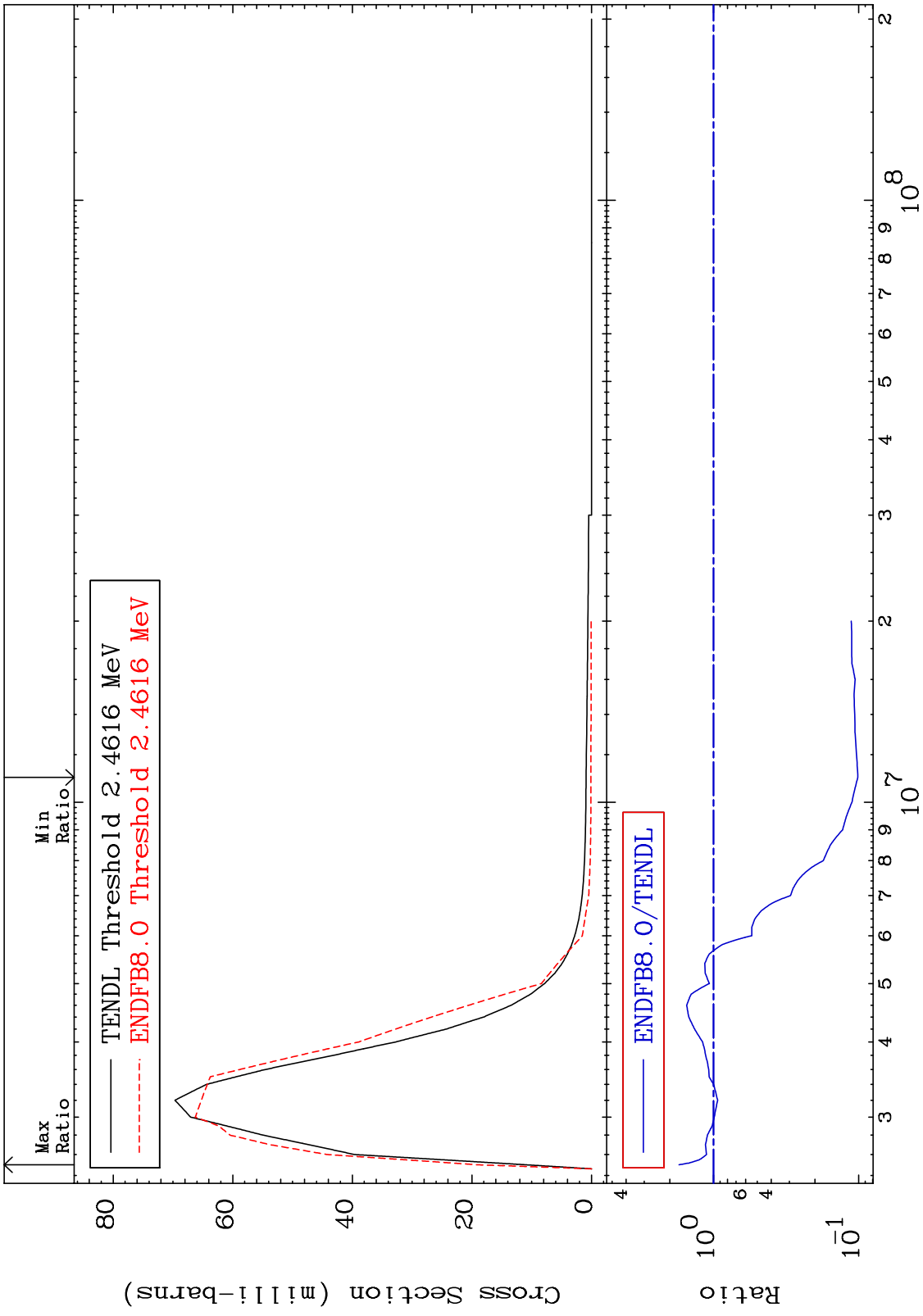
MAT 5831 MT= 62 (n,n') Level Cross Section 58-Ce-138 -99.53 To 61.77 %



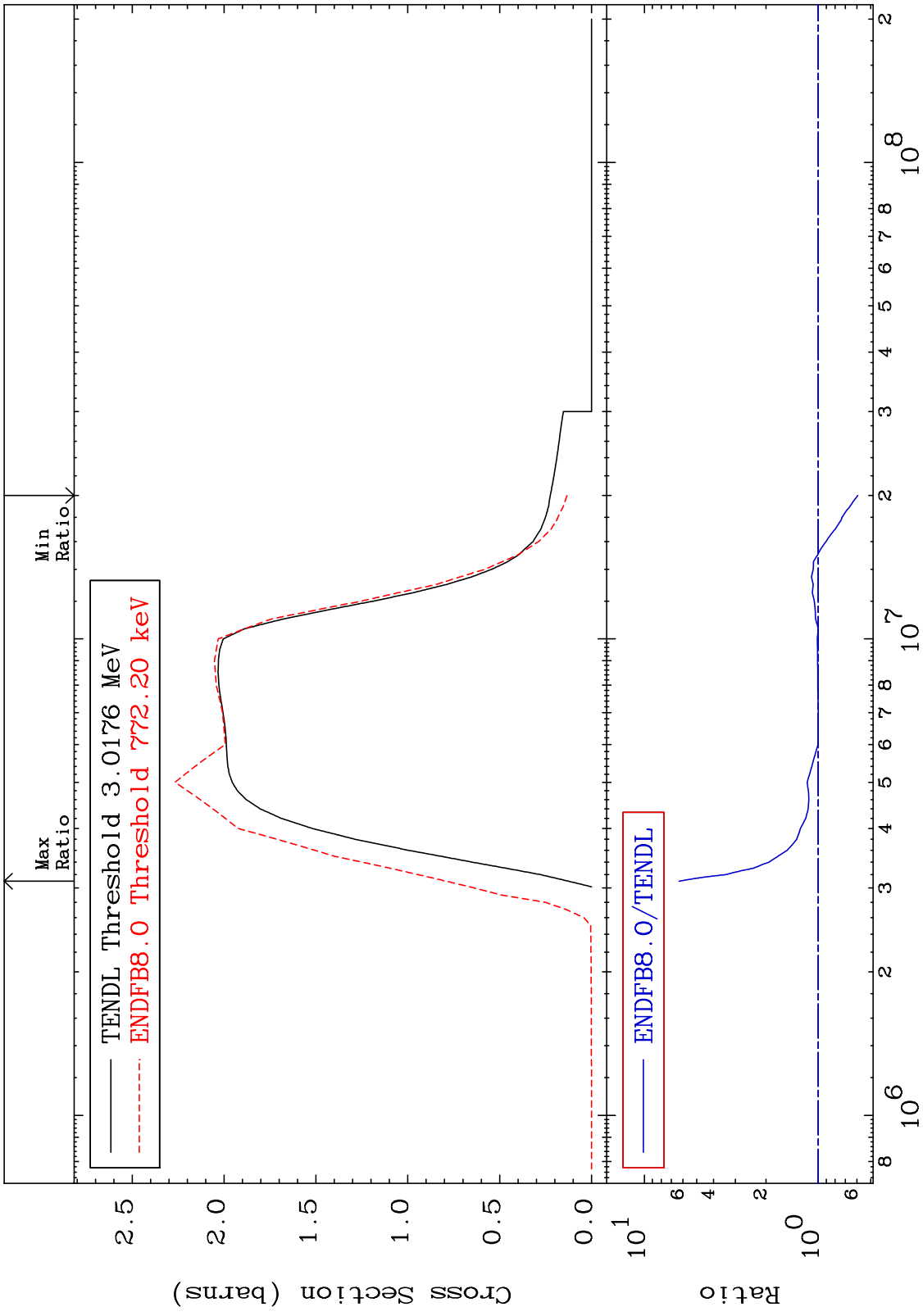
MAT 5831 MT= 63 (n,n') Level Cross Section 58-Ce-138  
 -100.0 To 35.02 %



MAT 5831 MT= 64 (n,n') Level Cross Section 58-Ce-138  
 -89.89 To 72.73 %







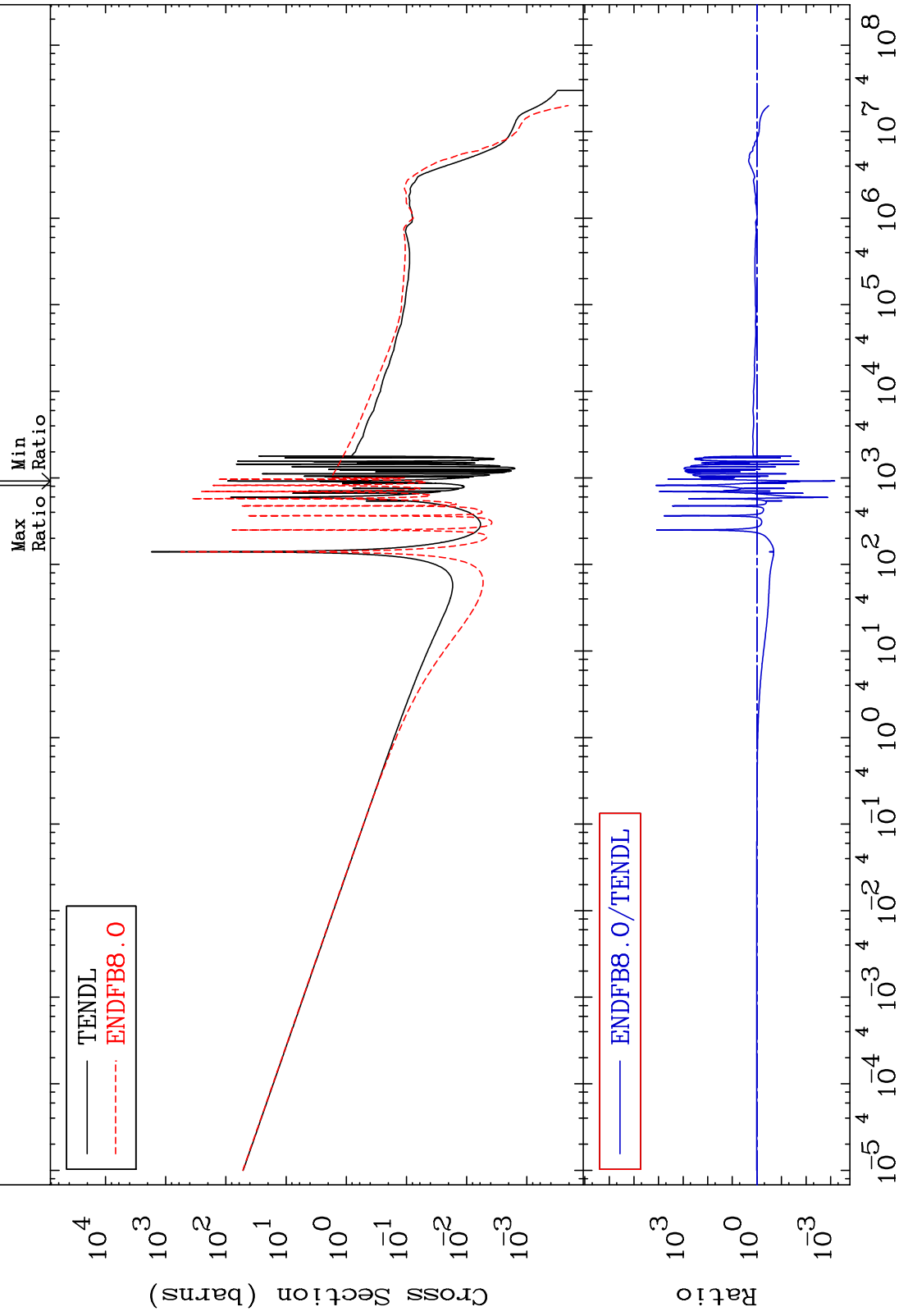
MAT 5831

(n,  $\gamma$ )

58-Ce-138

-99.93 To 9999. %

Cross Section



MAT 5831

(n,p)

58-Ce-138

-58.05 To 84.02 %

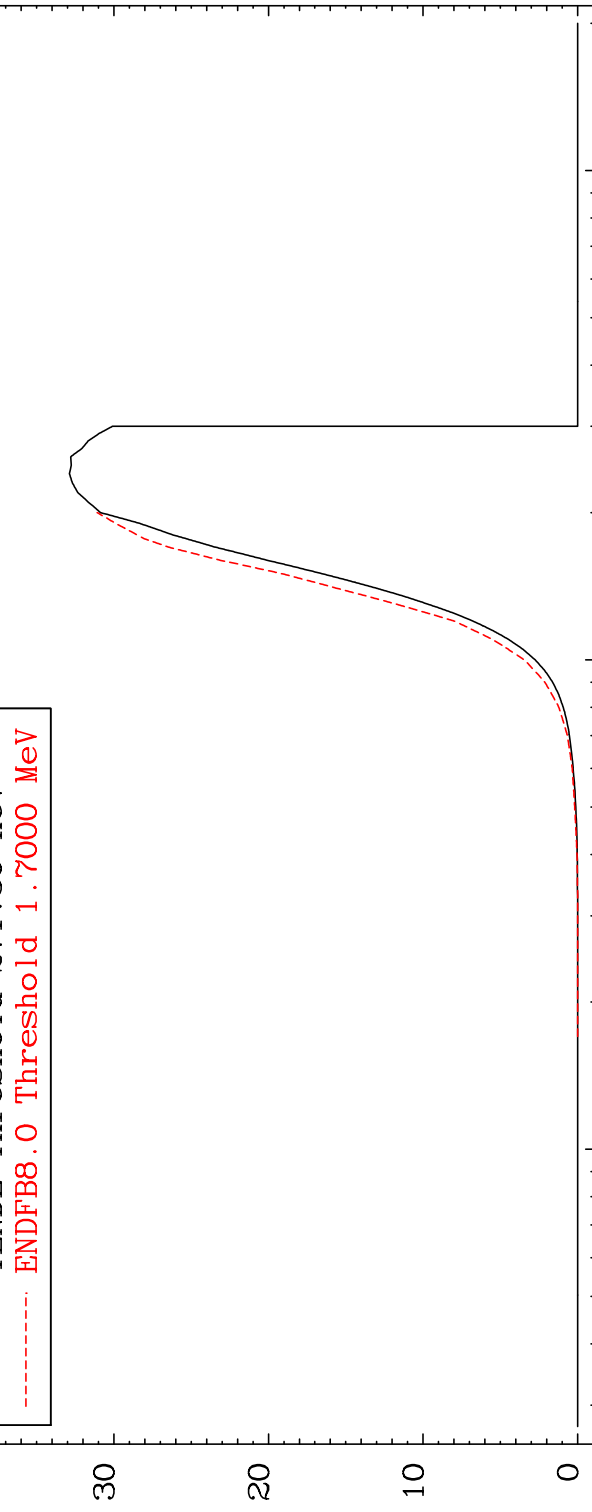
Cross Section

Min Ratio

Max Ratio

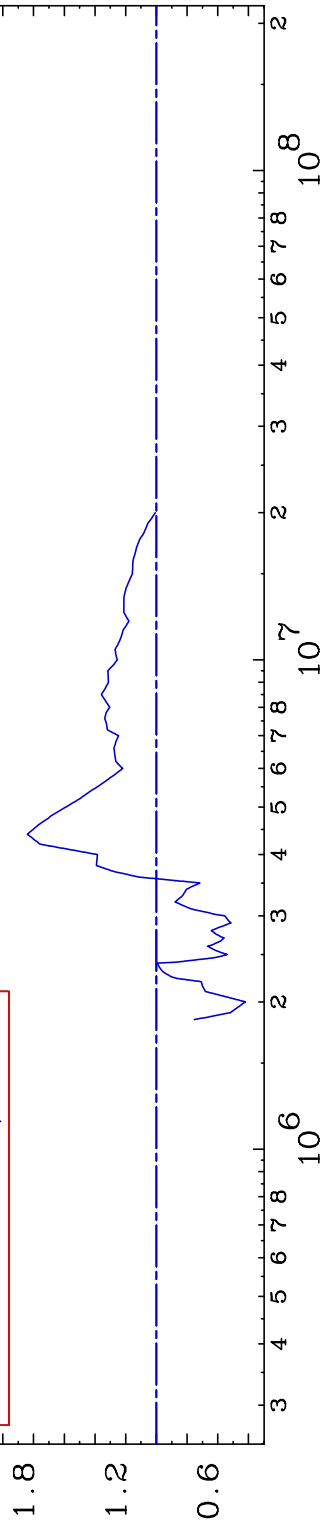
— TENDL Threshold 271.36 keV  
- - - ENDFB8.0 Threshold 1.7000 MeV

Cross Section (milli-barns)



— ENDFB8.0/TENDL

Ratio



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Incident Energy (eV)

58-Ce-138

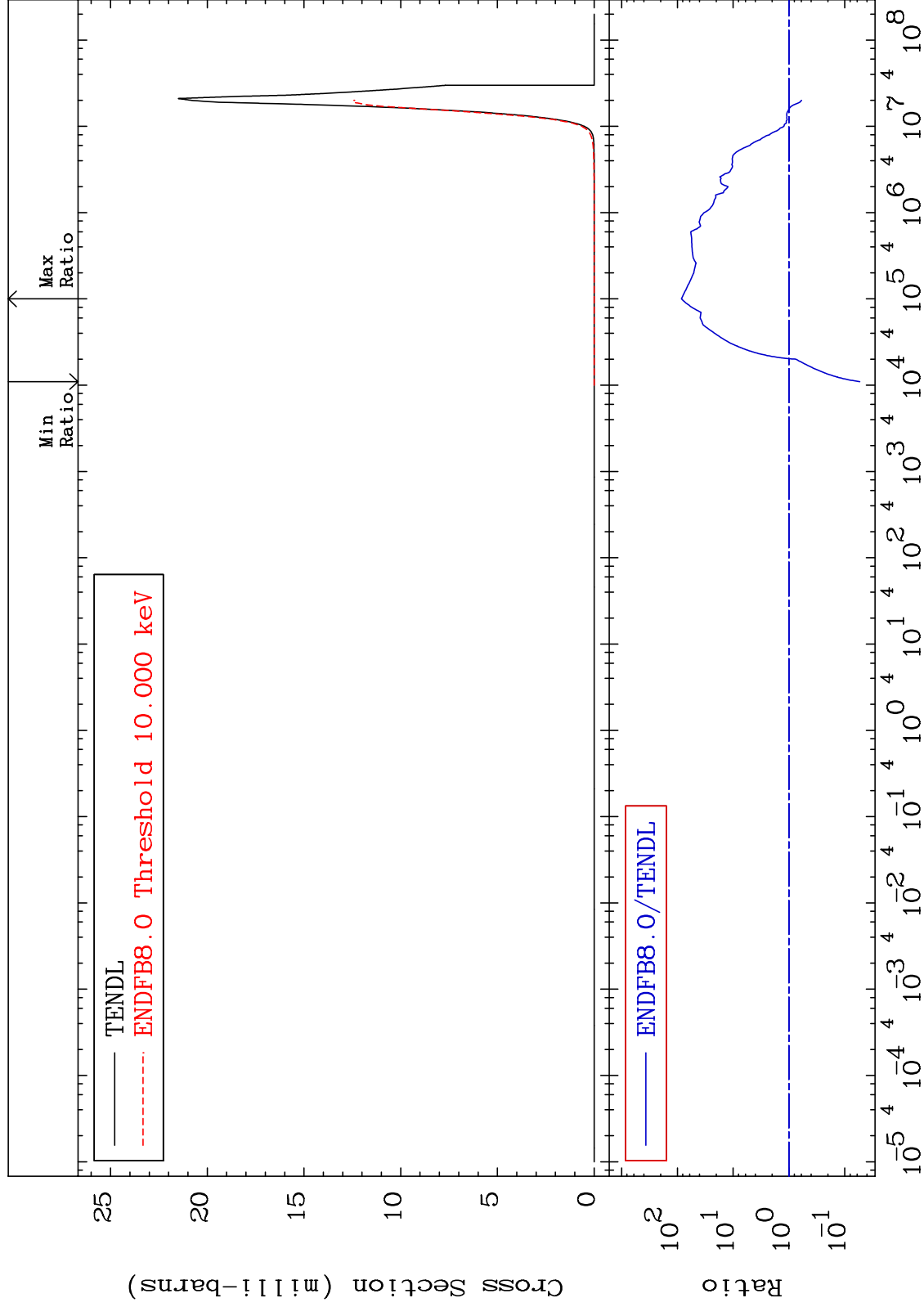
MAT 5831

(n,  $\alpha$ )

58-Ce-138

Cross Section

-94.63 To 8347. %



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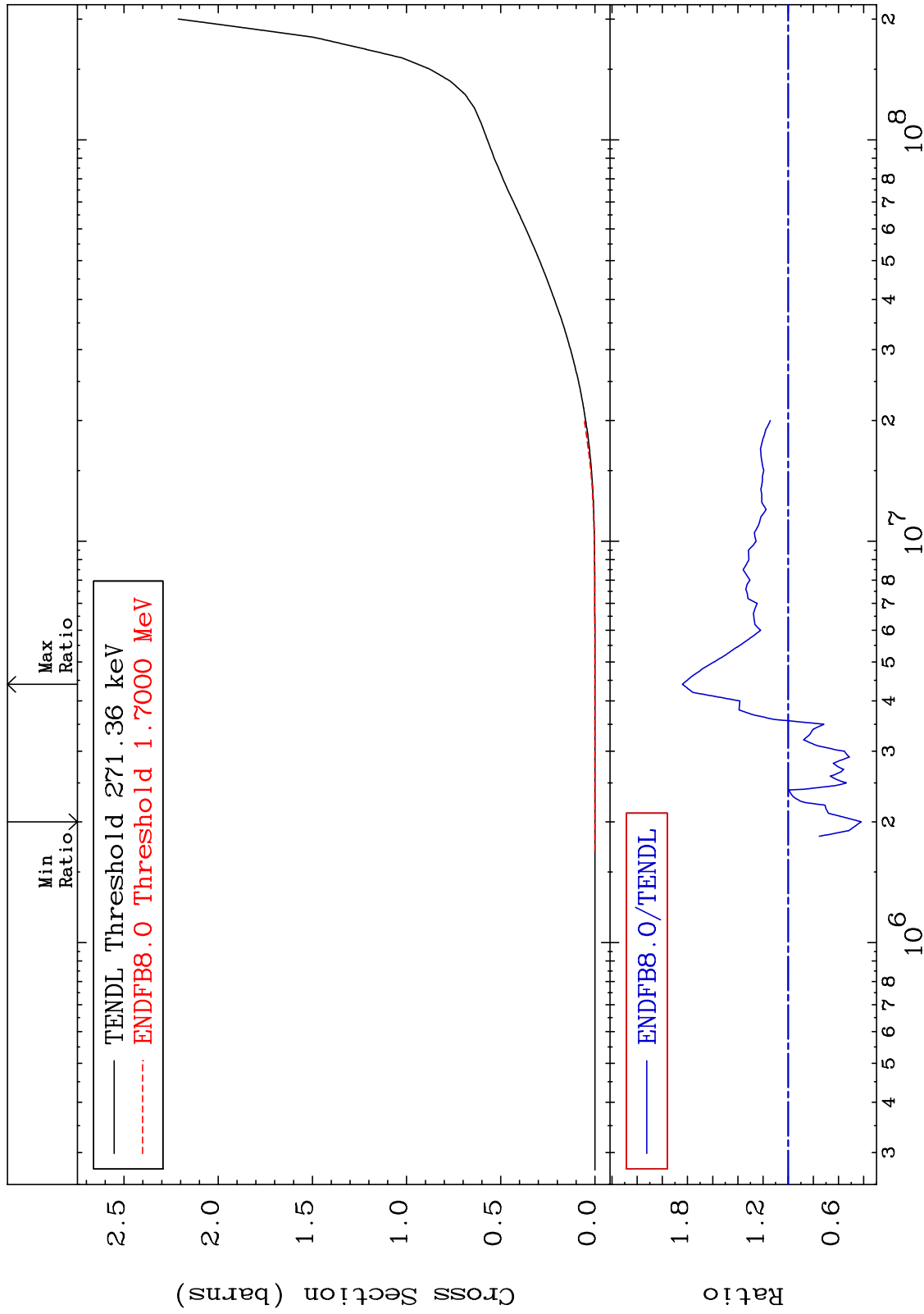
Incident Energy (eV)

58-Ce-138

MAT 5831

Hydrogen Production  
Cross Section

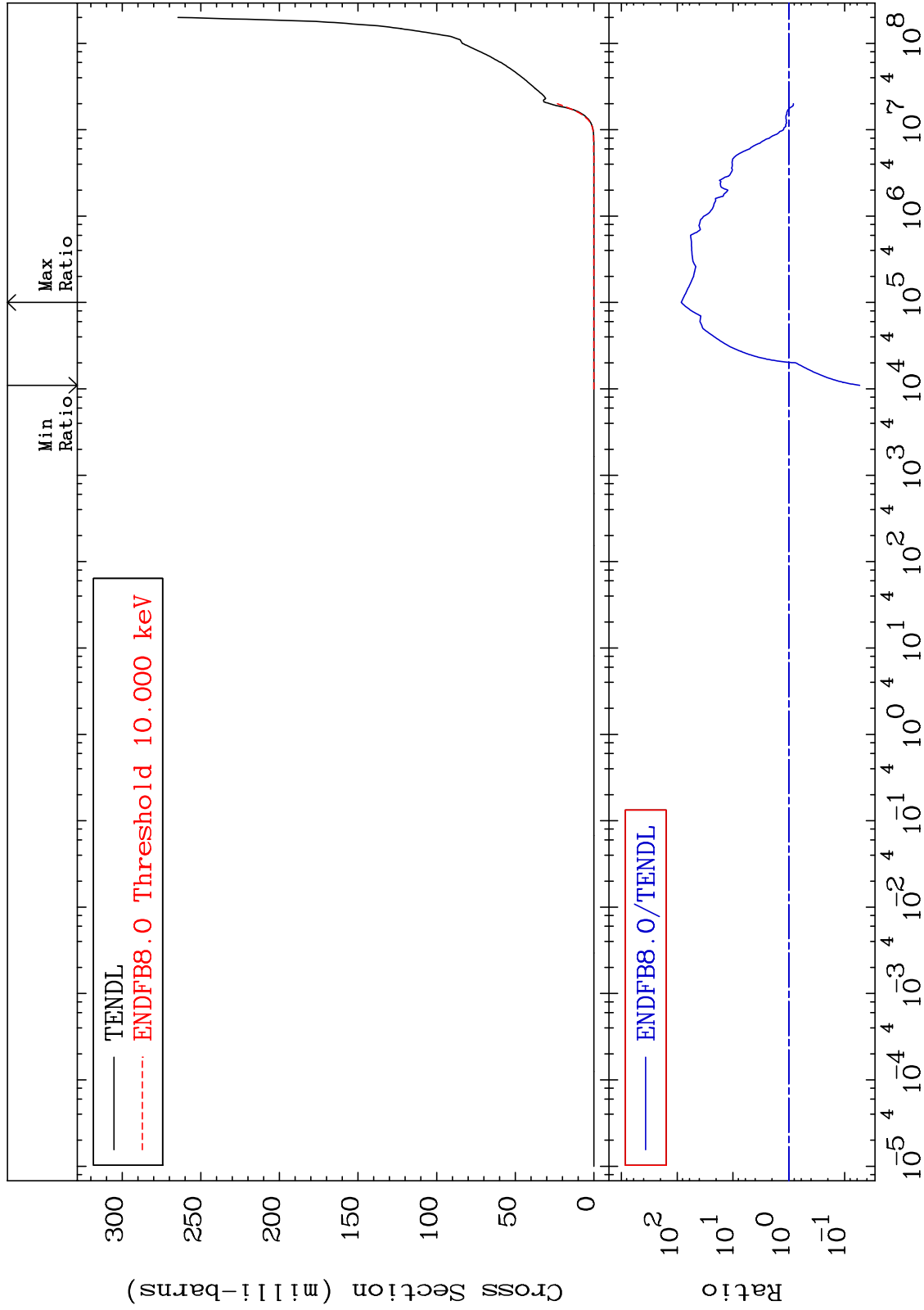
58-Ce-138  
-58.05 To 84.02 %



MAT 5831

He-4 Production  
Cross Section

58-Ce-138  
-94.63 To 8347. %

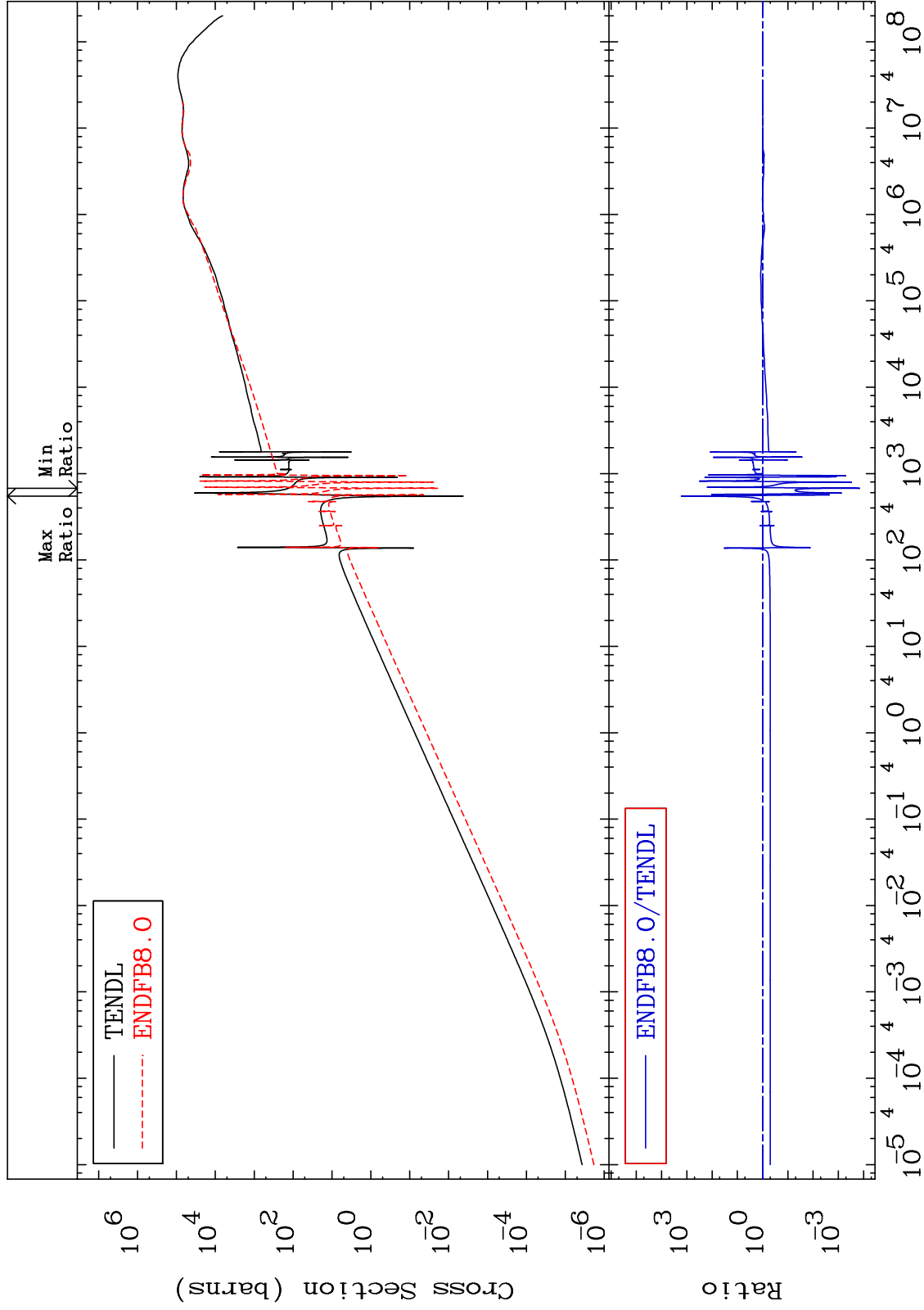




MAT 5831

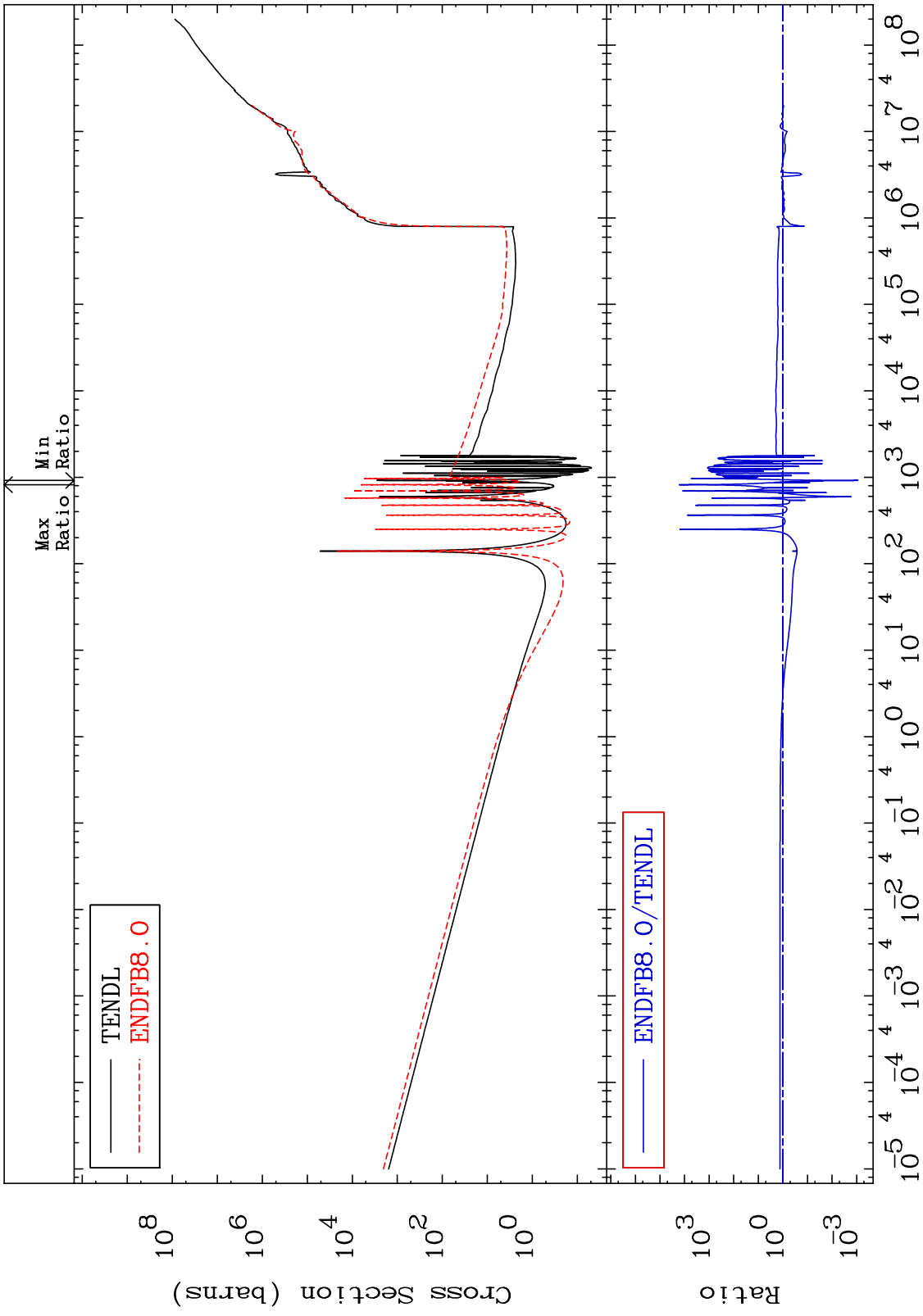
Kerma elastic  
Cross Section

58-Ce-138  
-99.99 To 9999. %

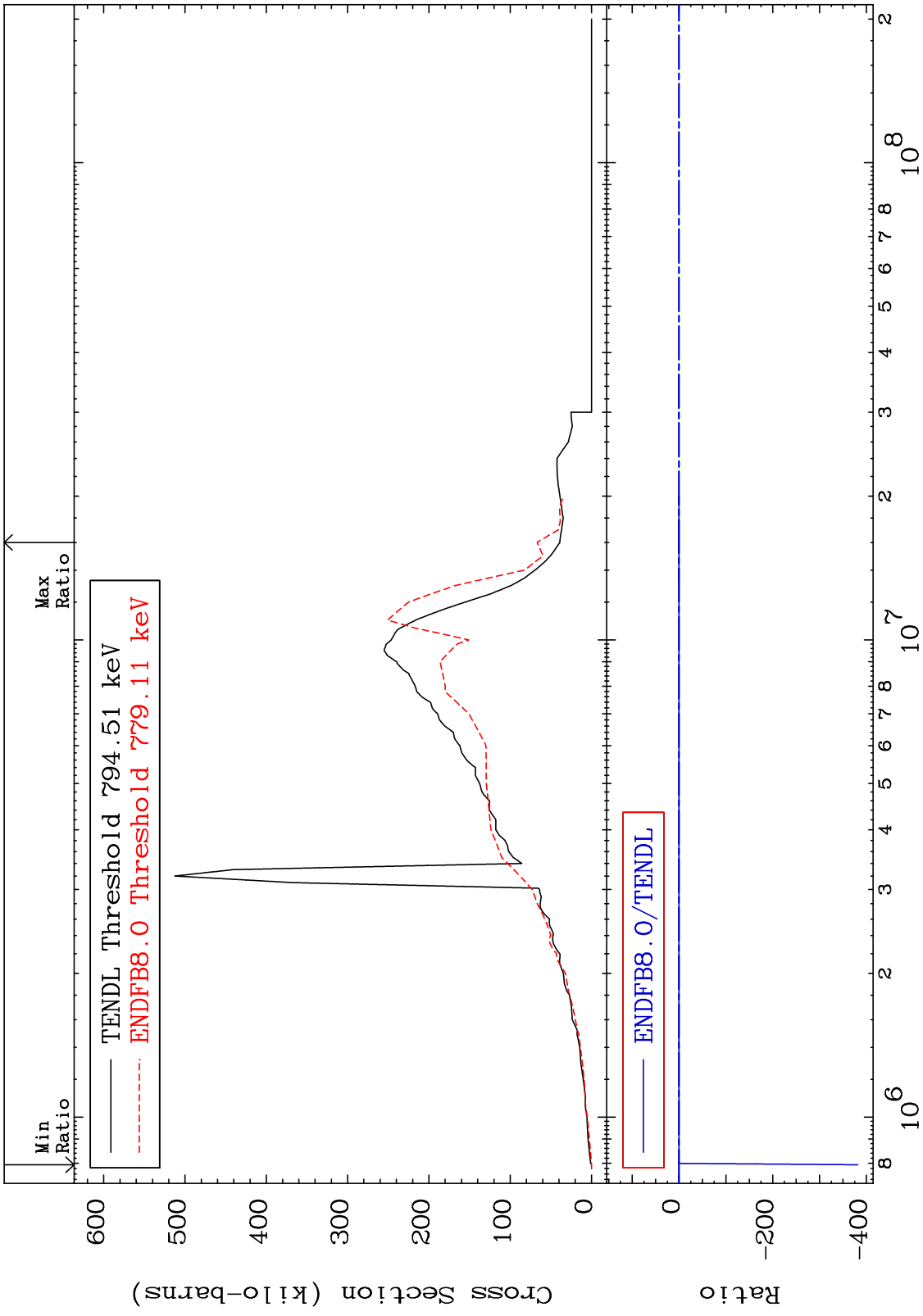




MAT 5831      Kerma non-elastic (all but mt2)      58-Ce-138  
 Cross Section      -99.91 To 9999. %



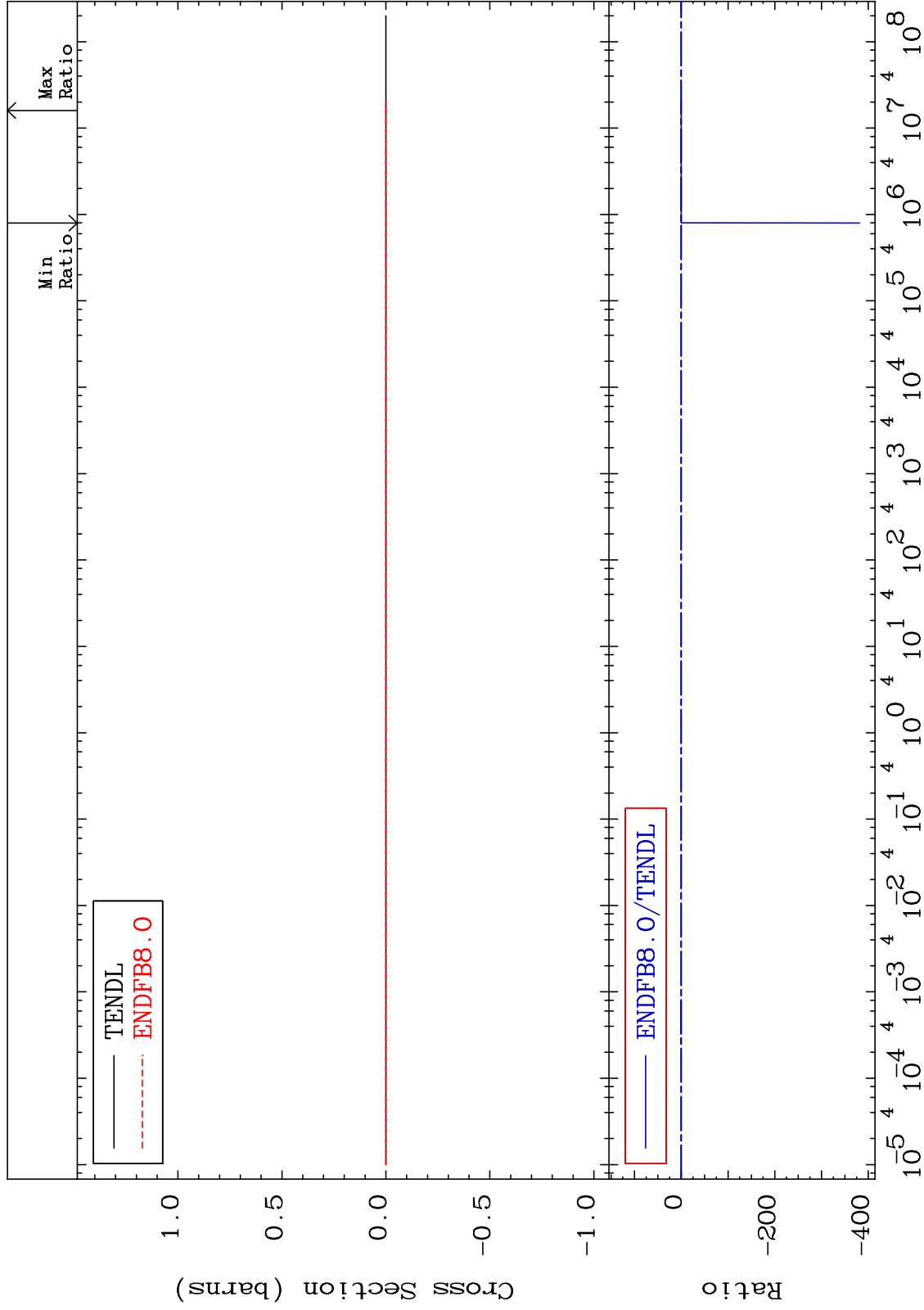
MAT 5831 Kerma inelastic (mt51-91) 58-Ce-138  
 Cross Section -9999. To 71.97 %



MAT 5831

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

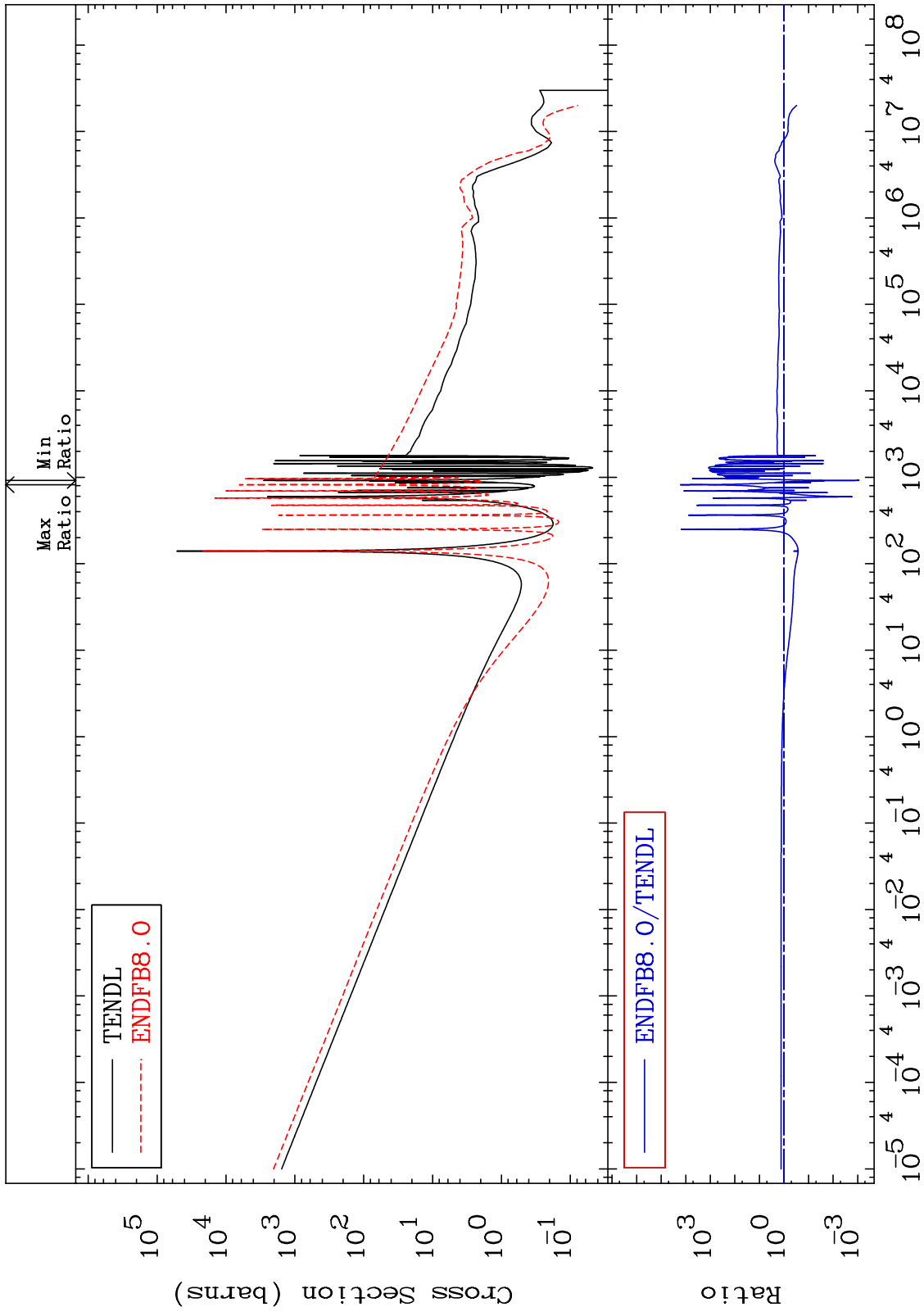
58-Ce-138  
-9999. To 71.97 %



MAT 5831

Kerma capture (mt102)  
Cross Section

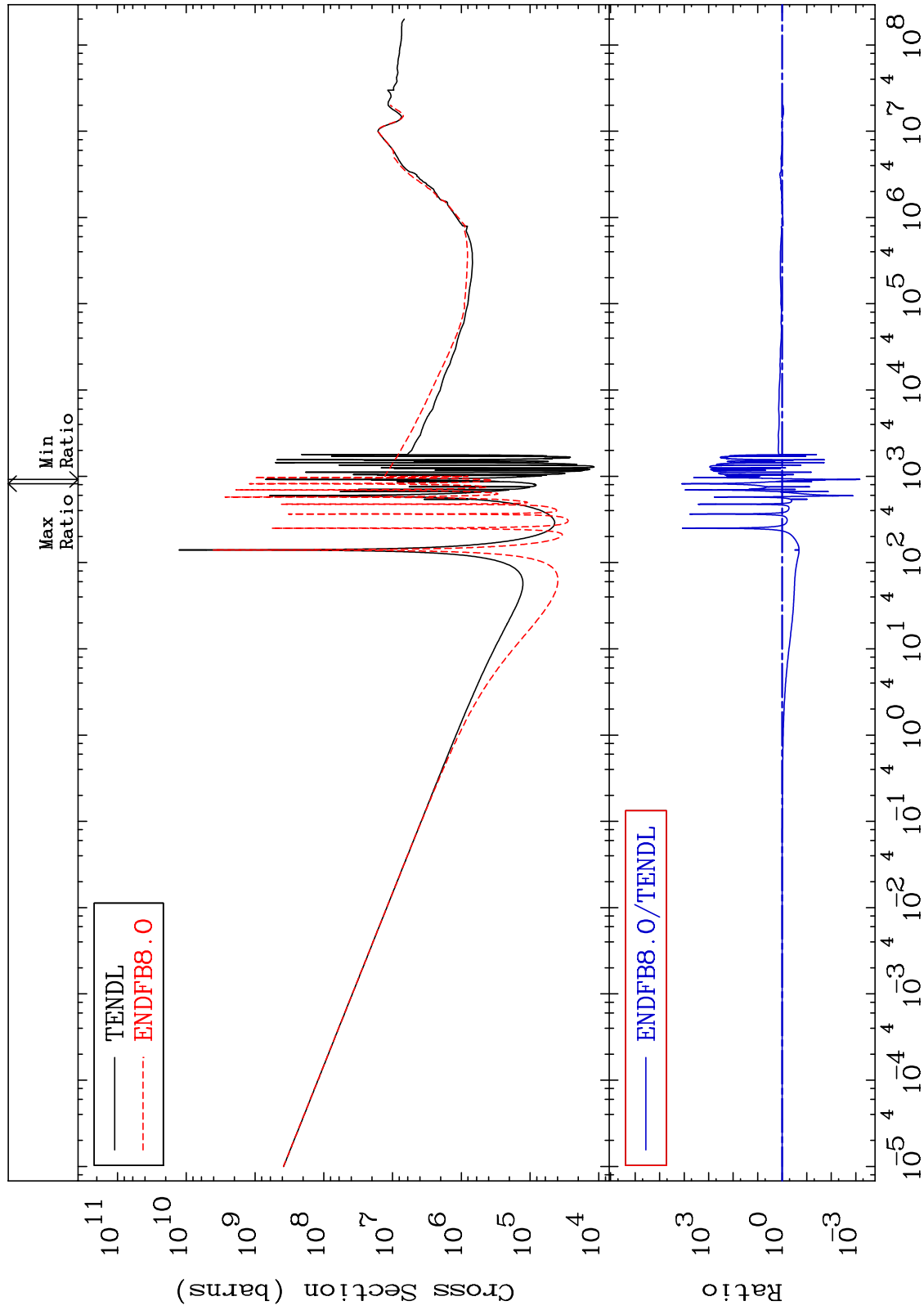
58-Ce-138  
-99.91 To 9999. %



MAT 5831

Total photon (eV-barns)  
Cross Section

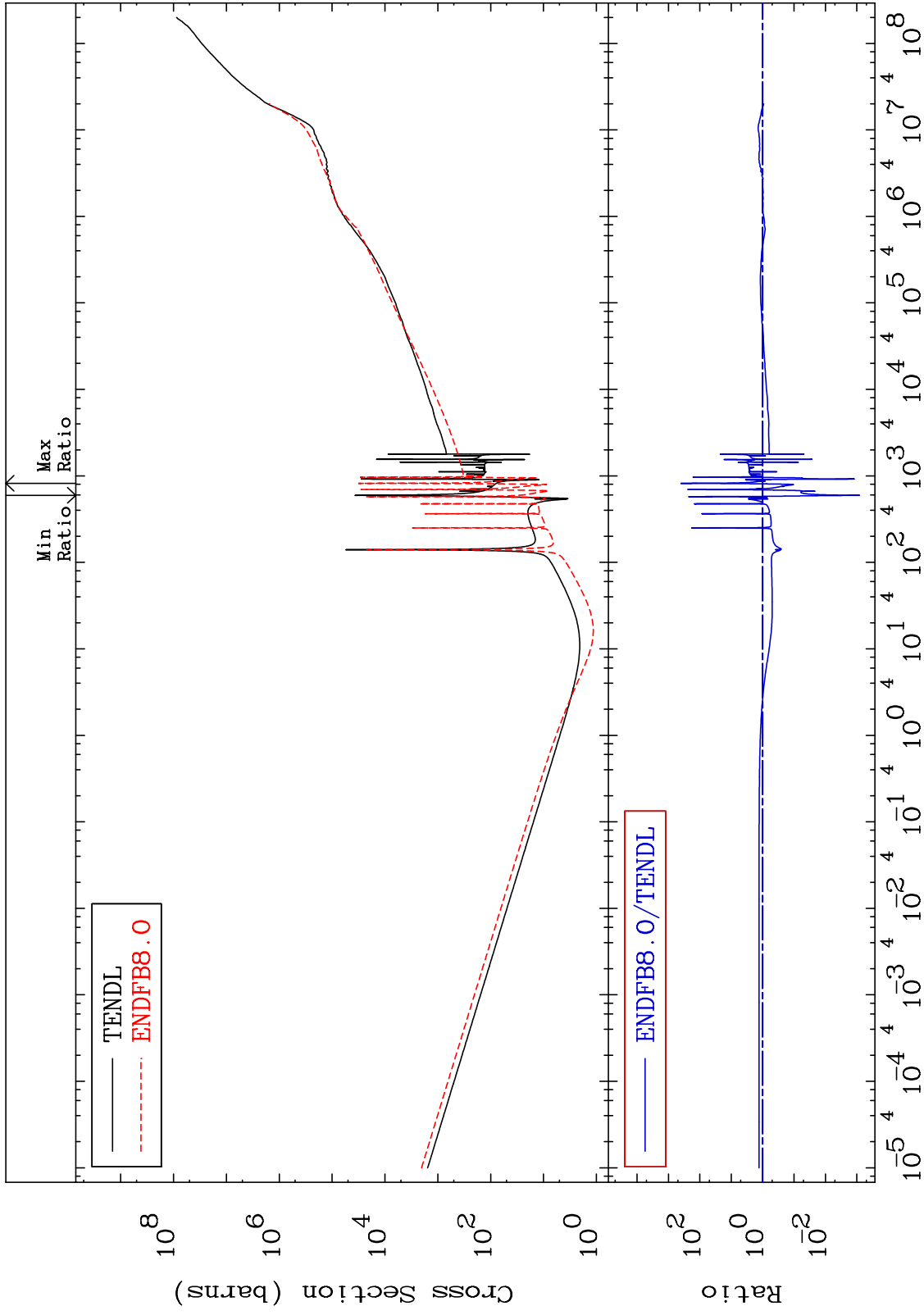
58-Ce-138  
-99.93 To 9999. %



MAT 5831

Total kinematic kerma (high limit)  
Cross Section

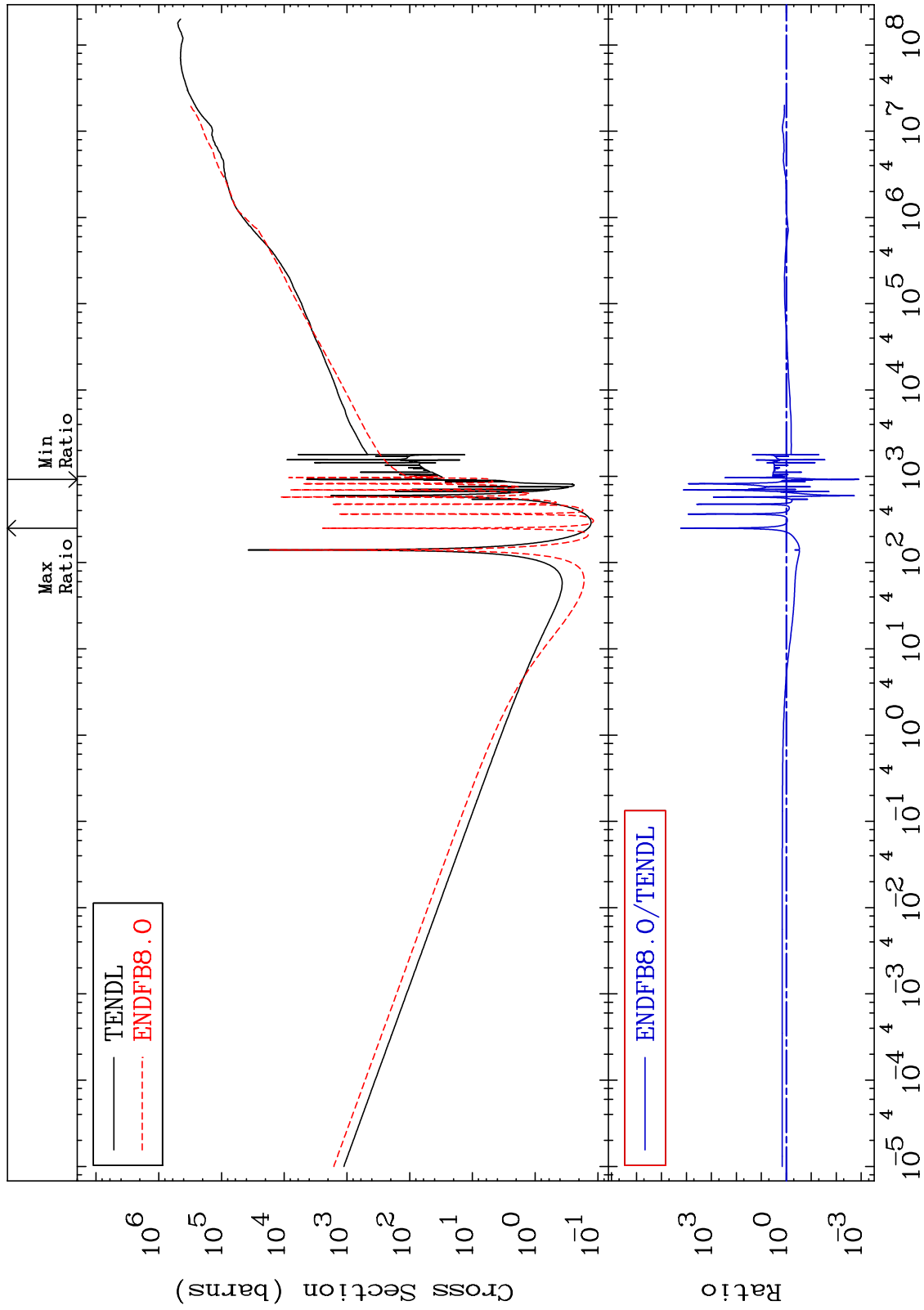
58-Ce-138  
-99.92 To 9999. %



MAT 5831

Dpa total (eV-barns)  
Cross Section

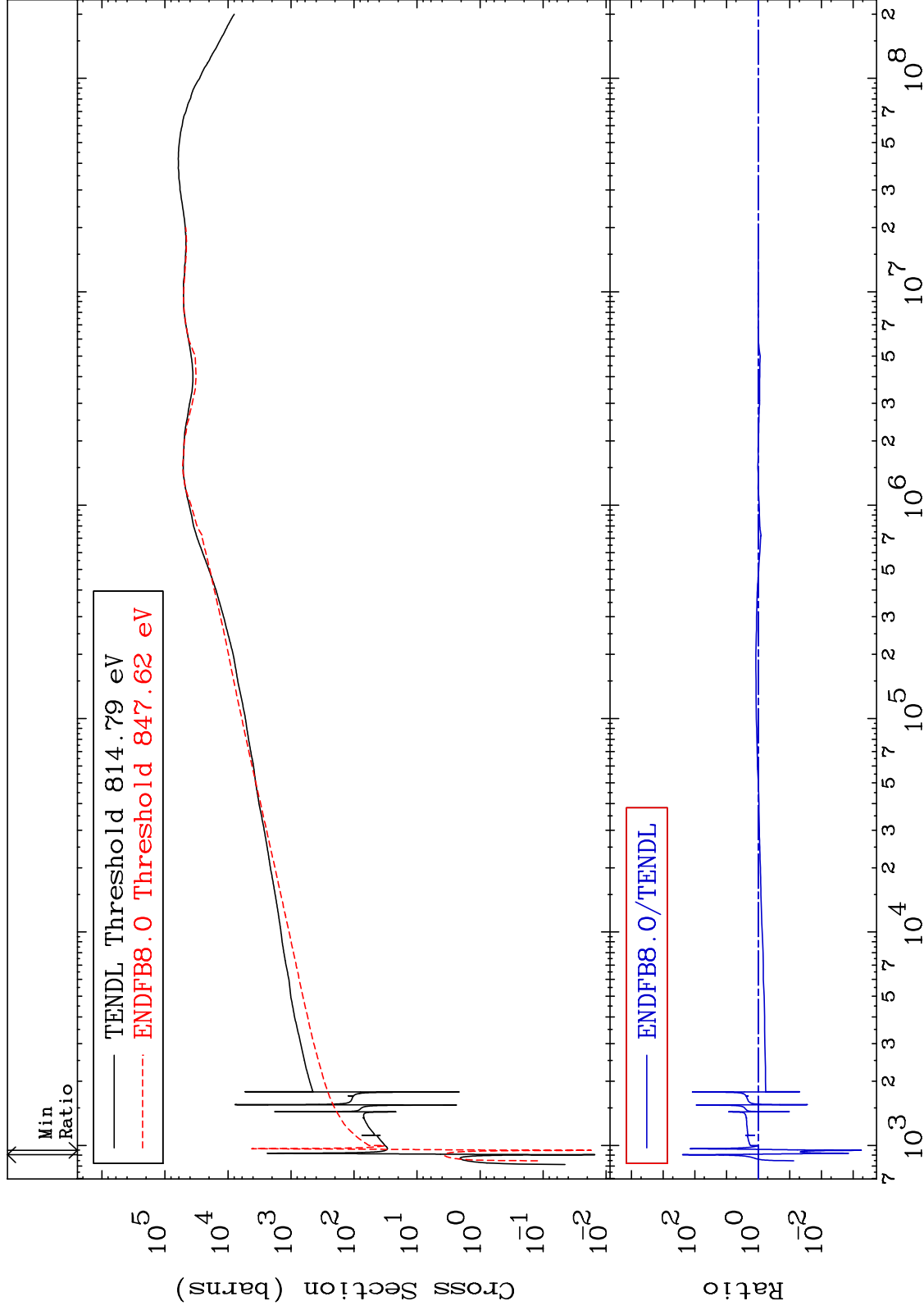
58-Ce-138  
-99.88 To 9999. %



MAT 5831

Dpa elastic (mt2)  
Cross Section

58-Ce-138  
-99.94 To 9999. %

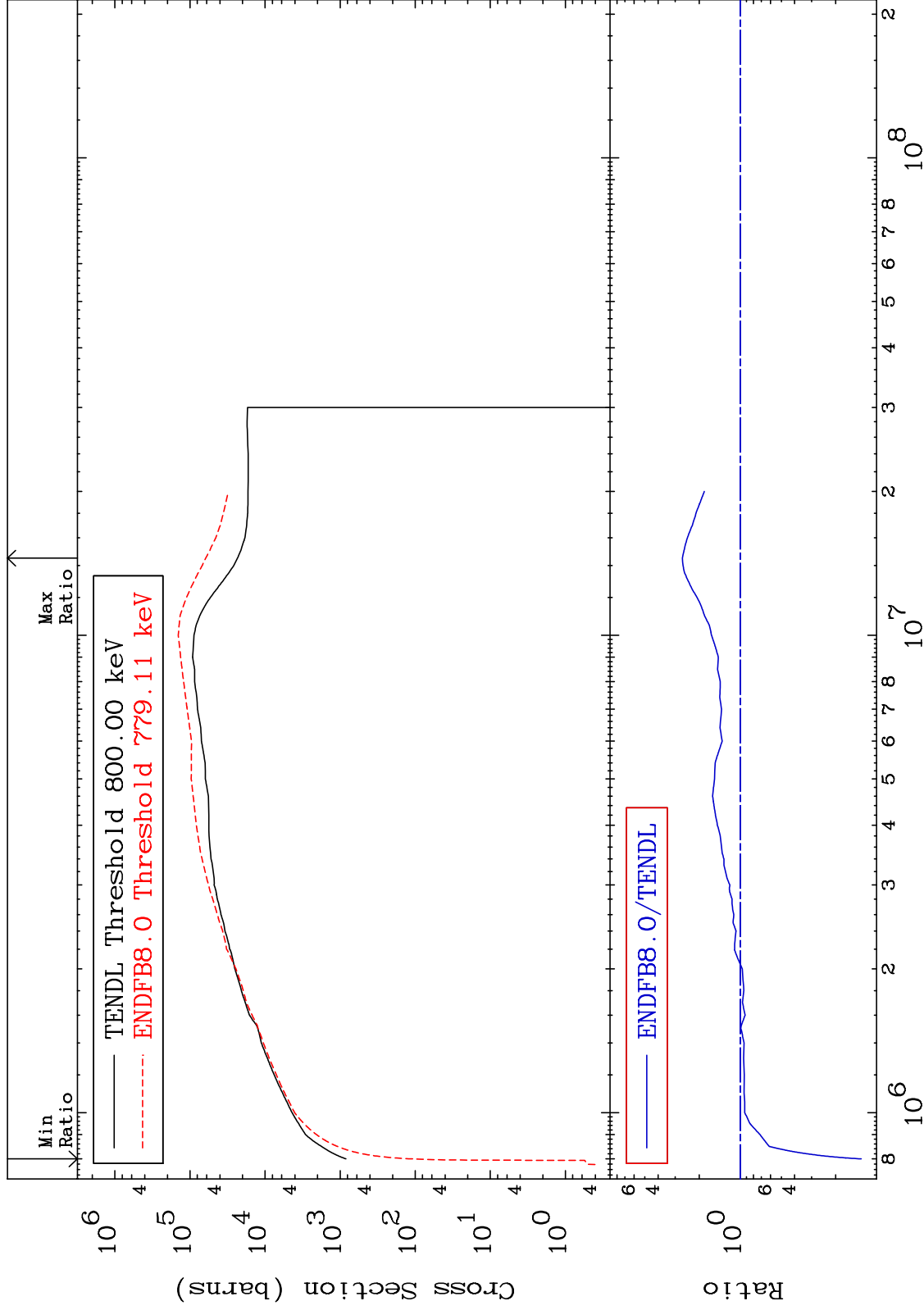




MAT 5831

Dpa inelastic (mt51-91)  
Cross Section

58-Ce-138  
-87.01 To 165.1 %



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Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa disappearance (mt102 -120)  
Cross Section

58-Ce-138  
-99.90 To 9999. %

