

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

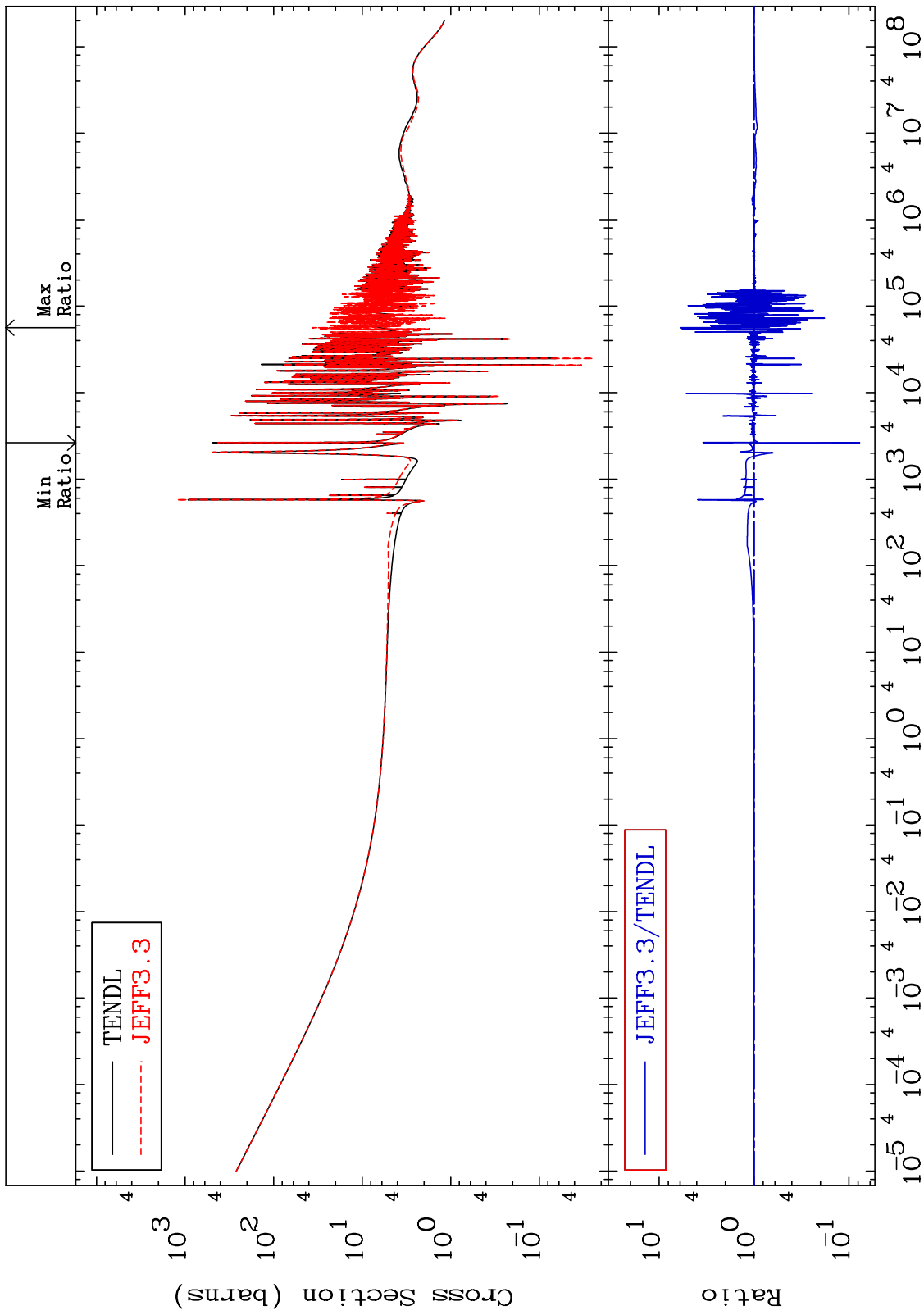
Press Mouse Button to Start

MAT 2925

Total  
Cross Section

29-Cu-63

-92.29 To 489.4 %



1

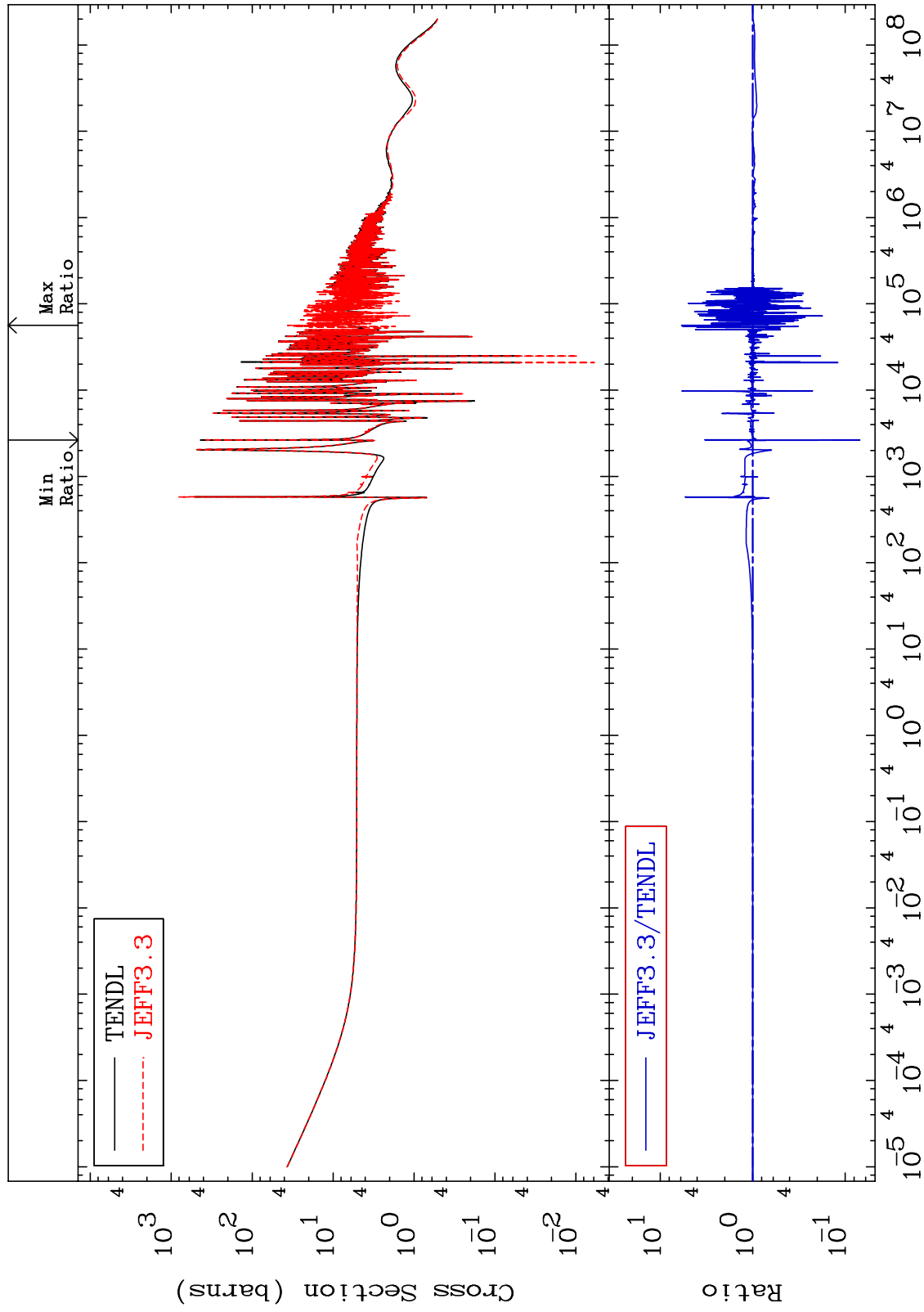
Incident Energy (eV)

29-Cu-63

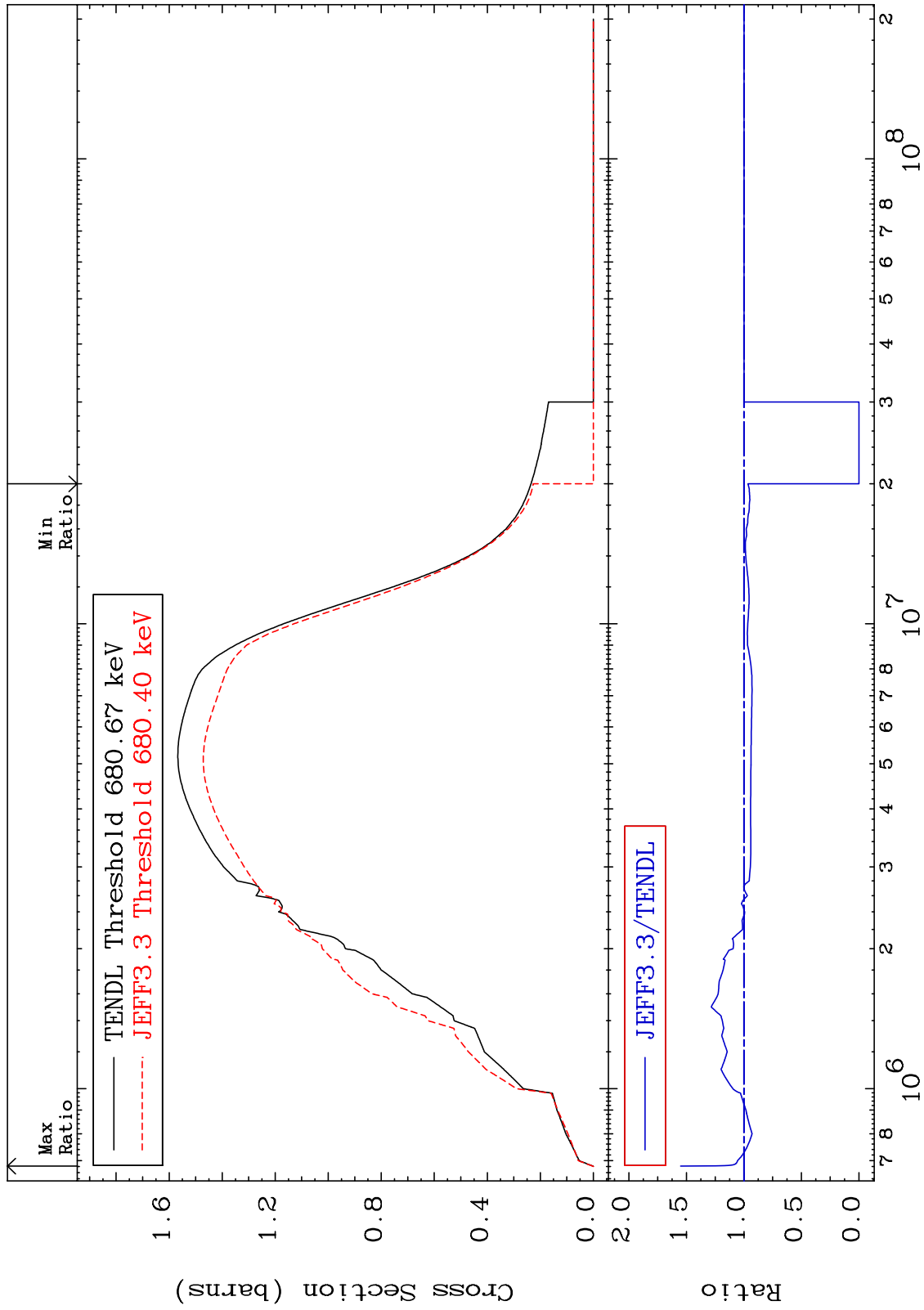
MAT 2925

Elastic  
Cross Section

29-Cu-63  
-93.07 To 489.3 %



MAT 2925 Inelastic Cross Section 29-Cu-63 -100.0 To 54.99 %

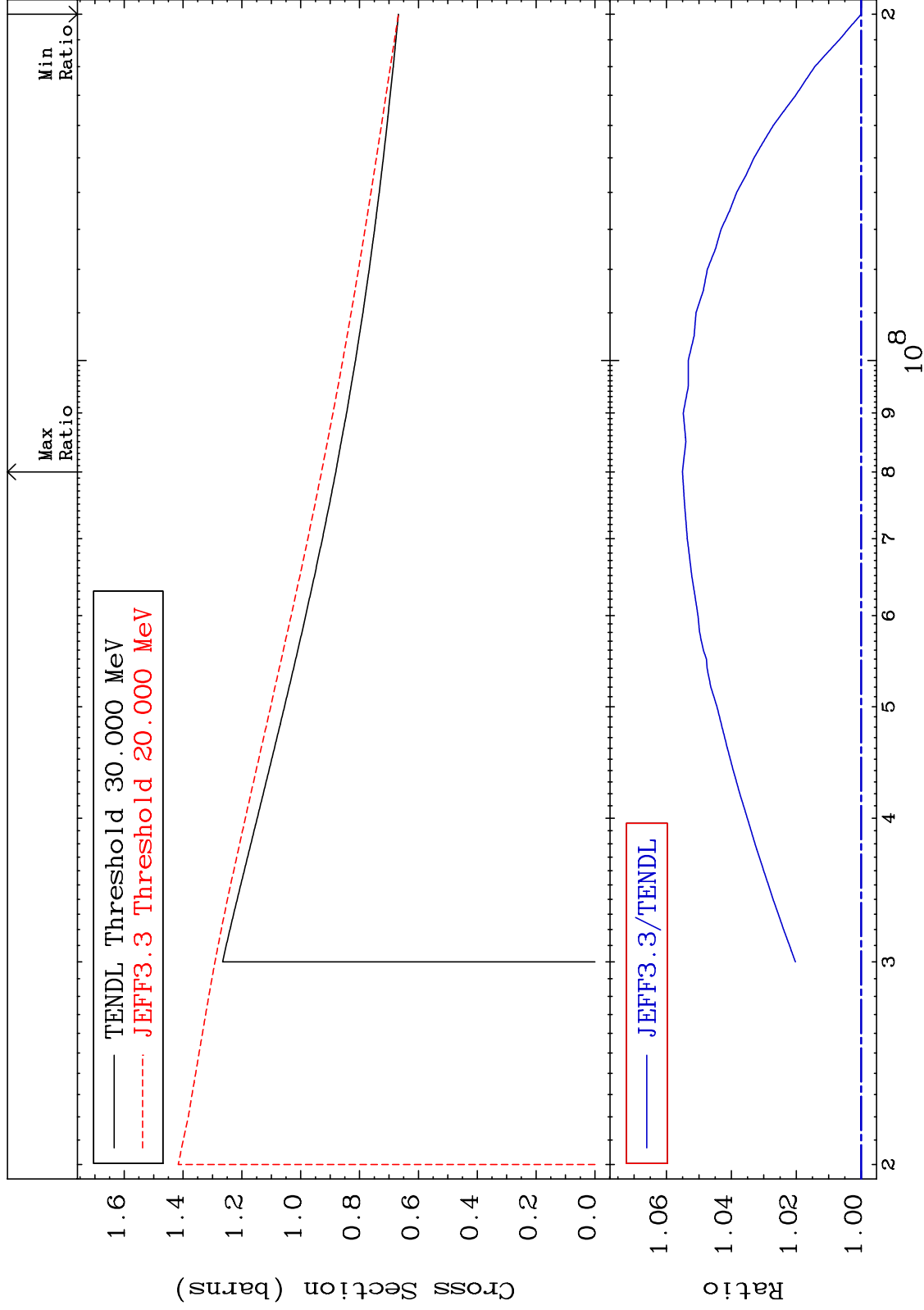


3 Incident Energy (eV) 29-Cu-63

MAT 2925

(n, remainder)  
Cross Section

29-Cu-63  
-0.004 To 5.508 %

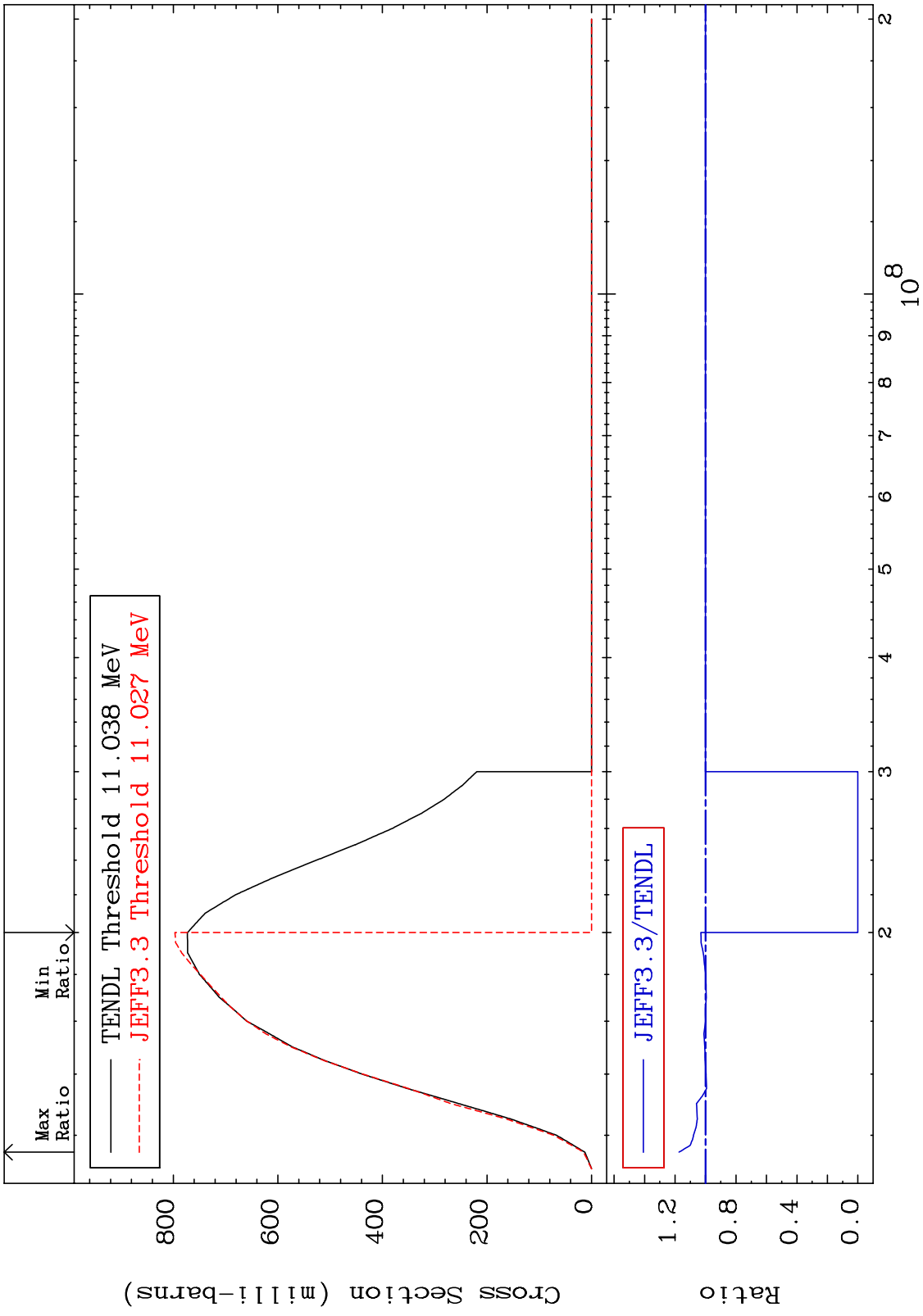


4

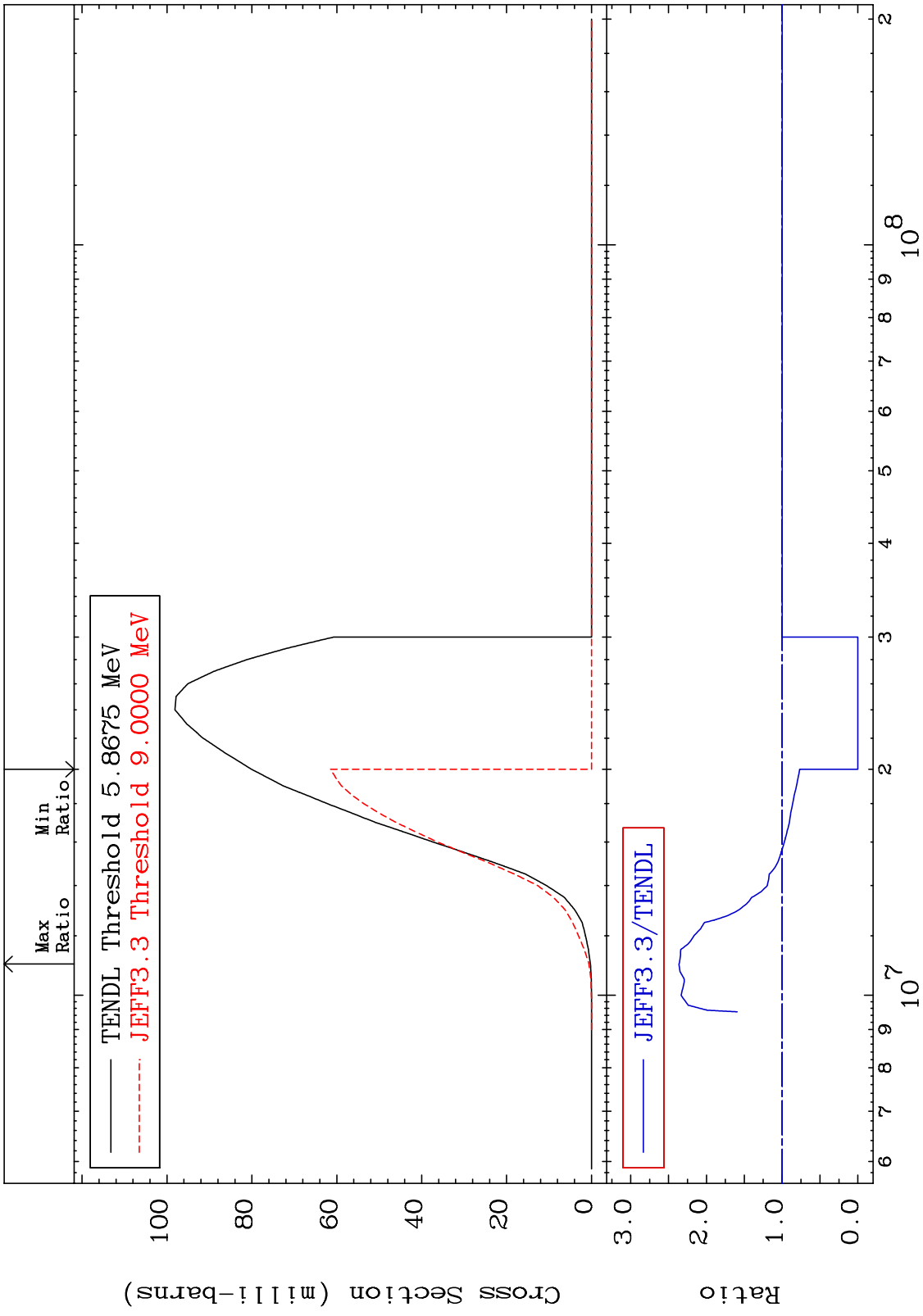
Incident Energy (eV)

29-Cu-63

MAT 2925  $(n,2n)$  Cross Section  $^{29}\text{Cu-63}$   
 -100.0 To 17.39 %

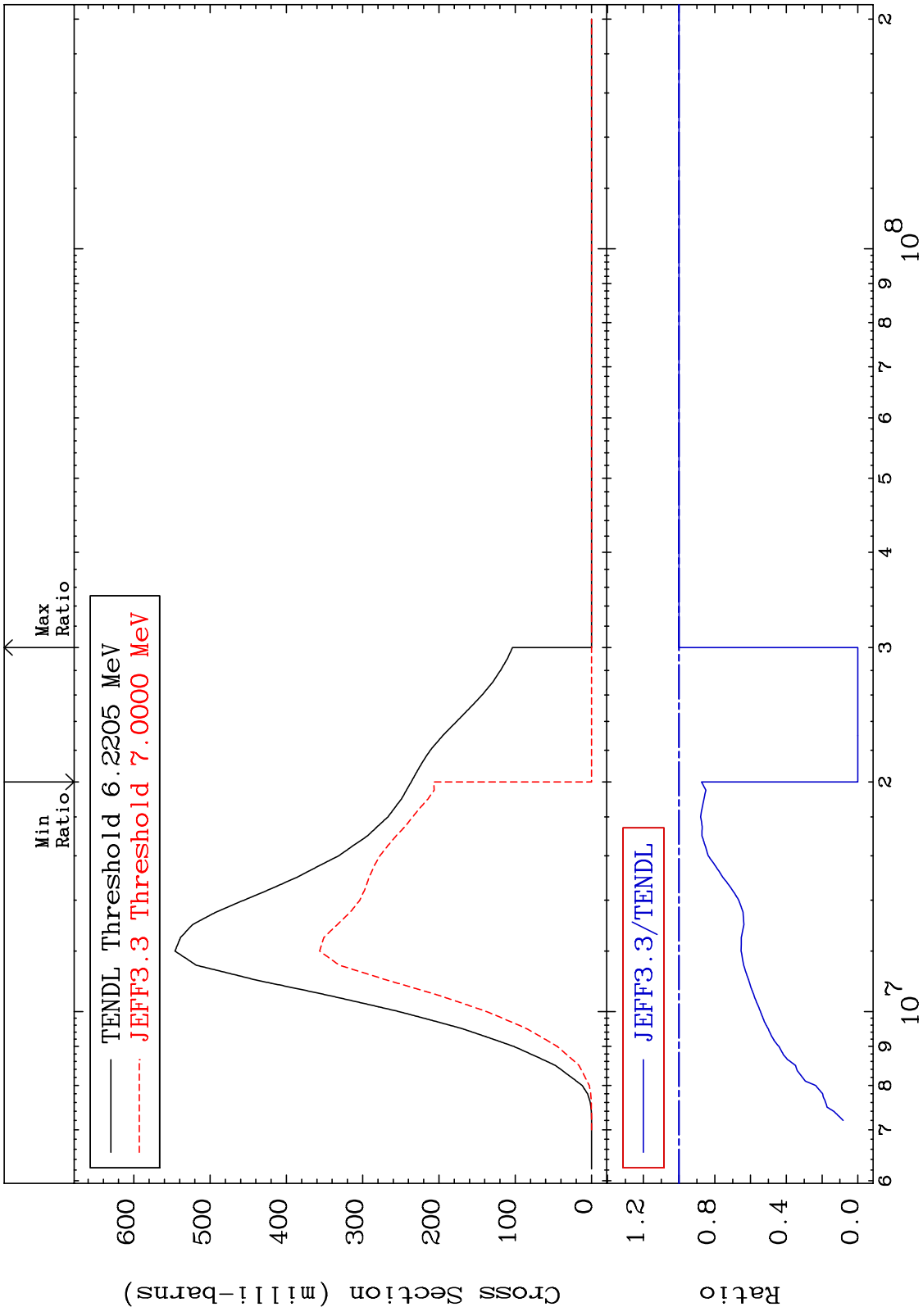


MAT 2925  $(n, n') \alpha$  29-Cu-63  
 Cross Section -100.0 To 136.2 %



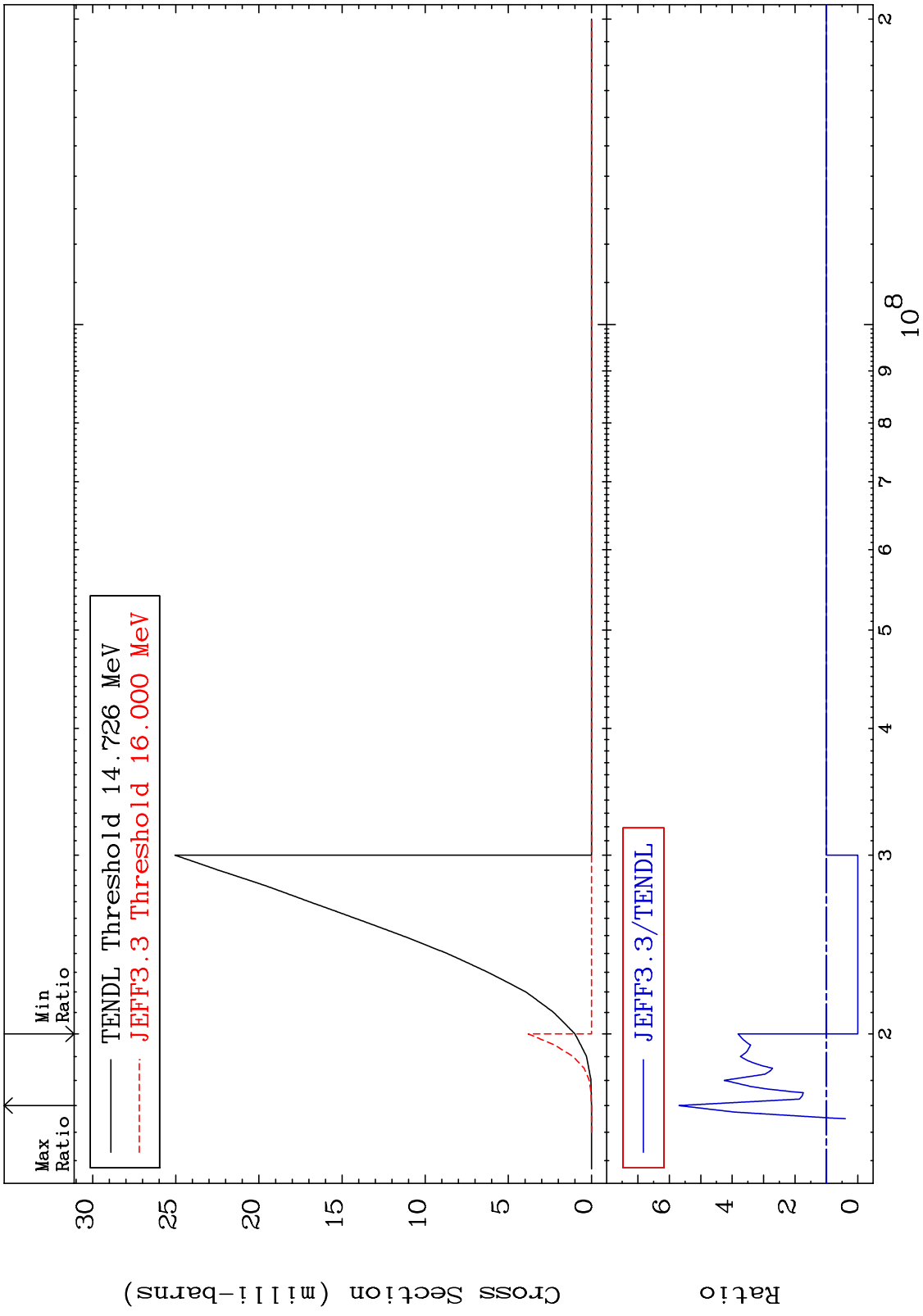
6 29-Cu-63 Incident Energy (eV)

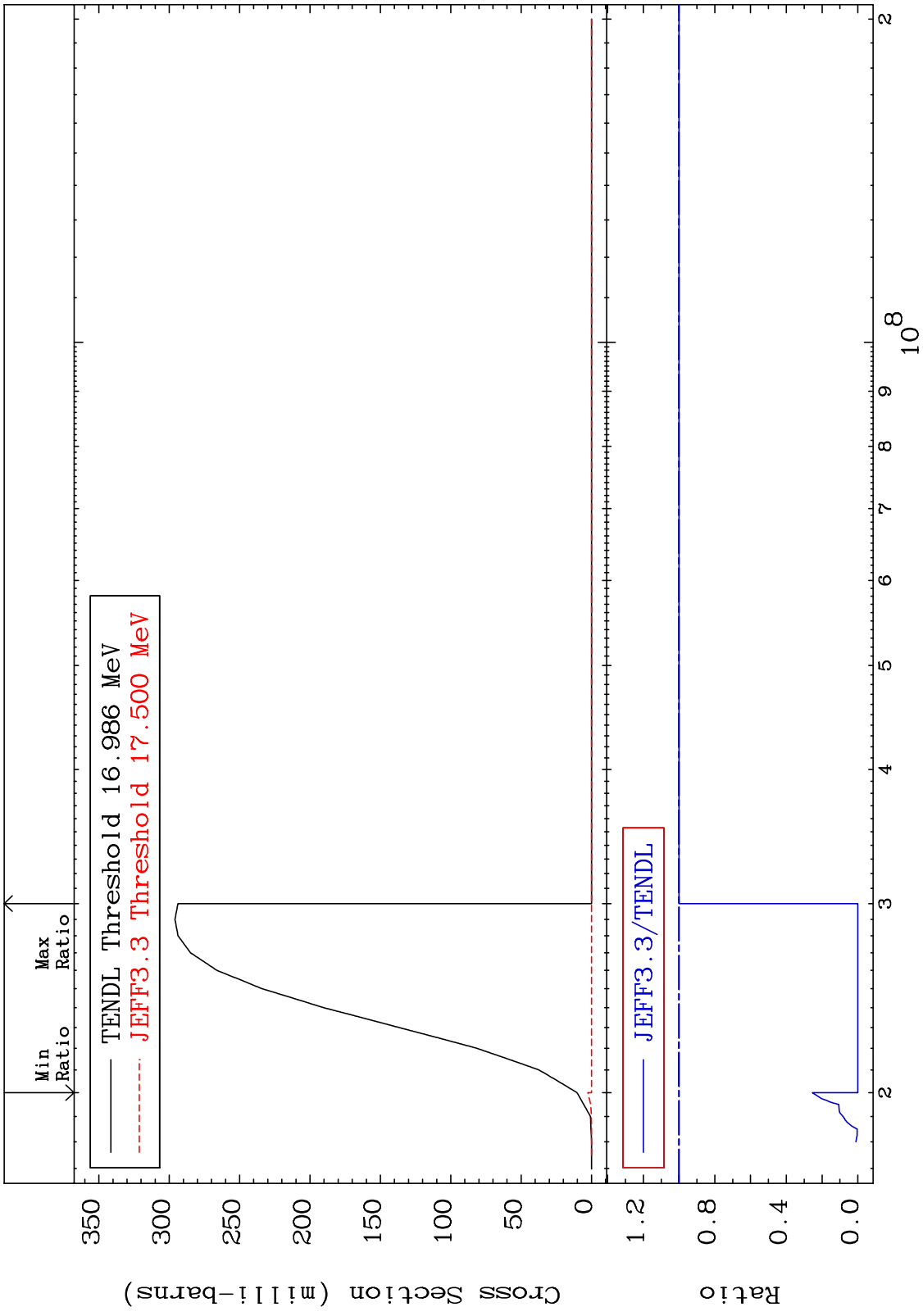
MAT 2925  $(n, n')$  p  $^{29}\text{Cu-63}$   
-100.0 To 0.000 %



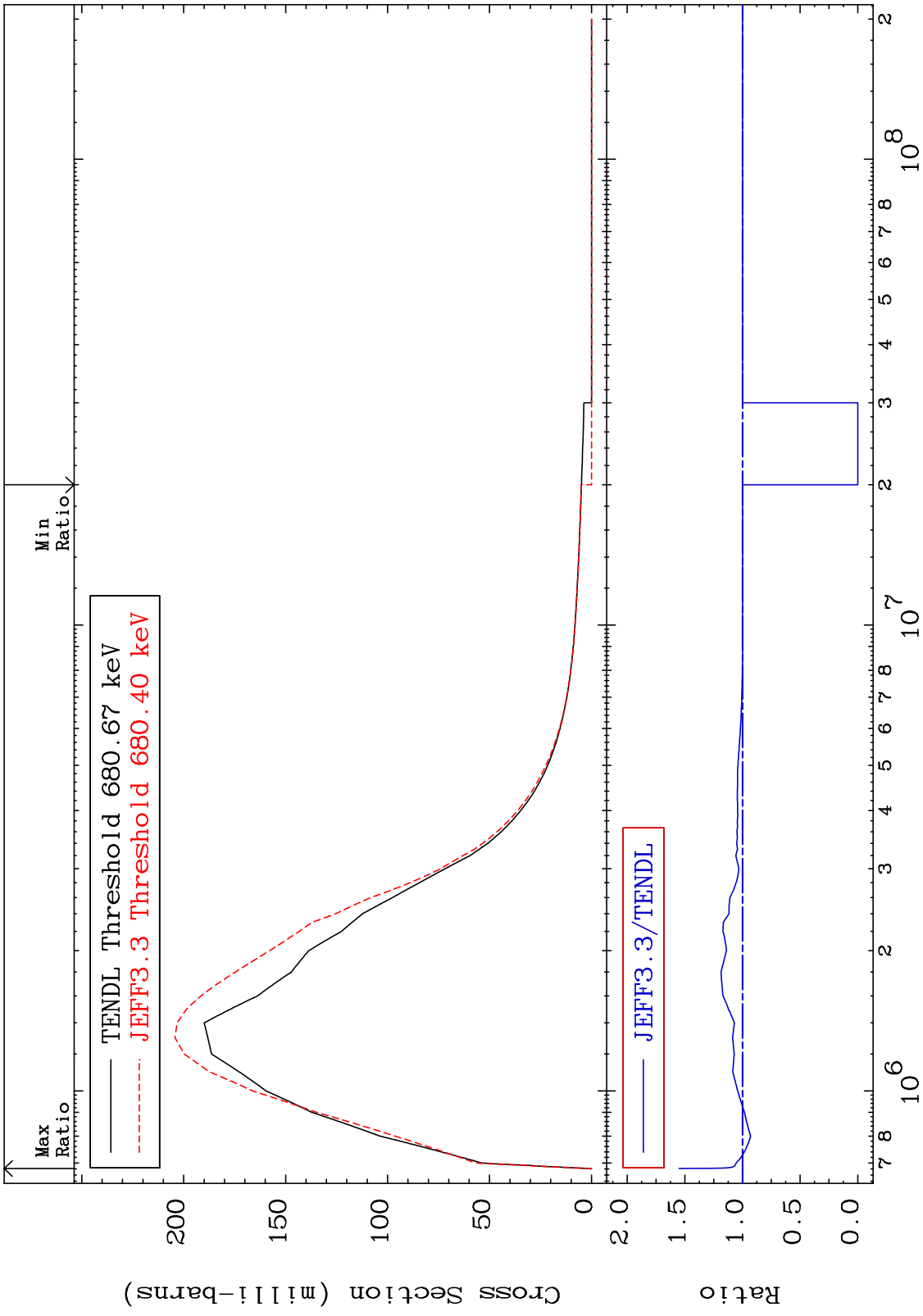
$^{29}\text{Cu-63}$





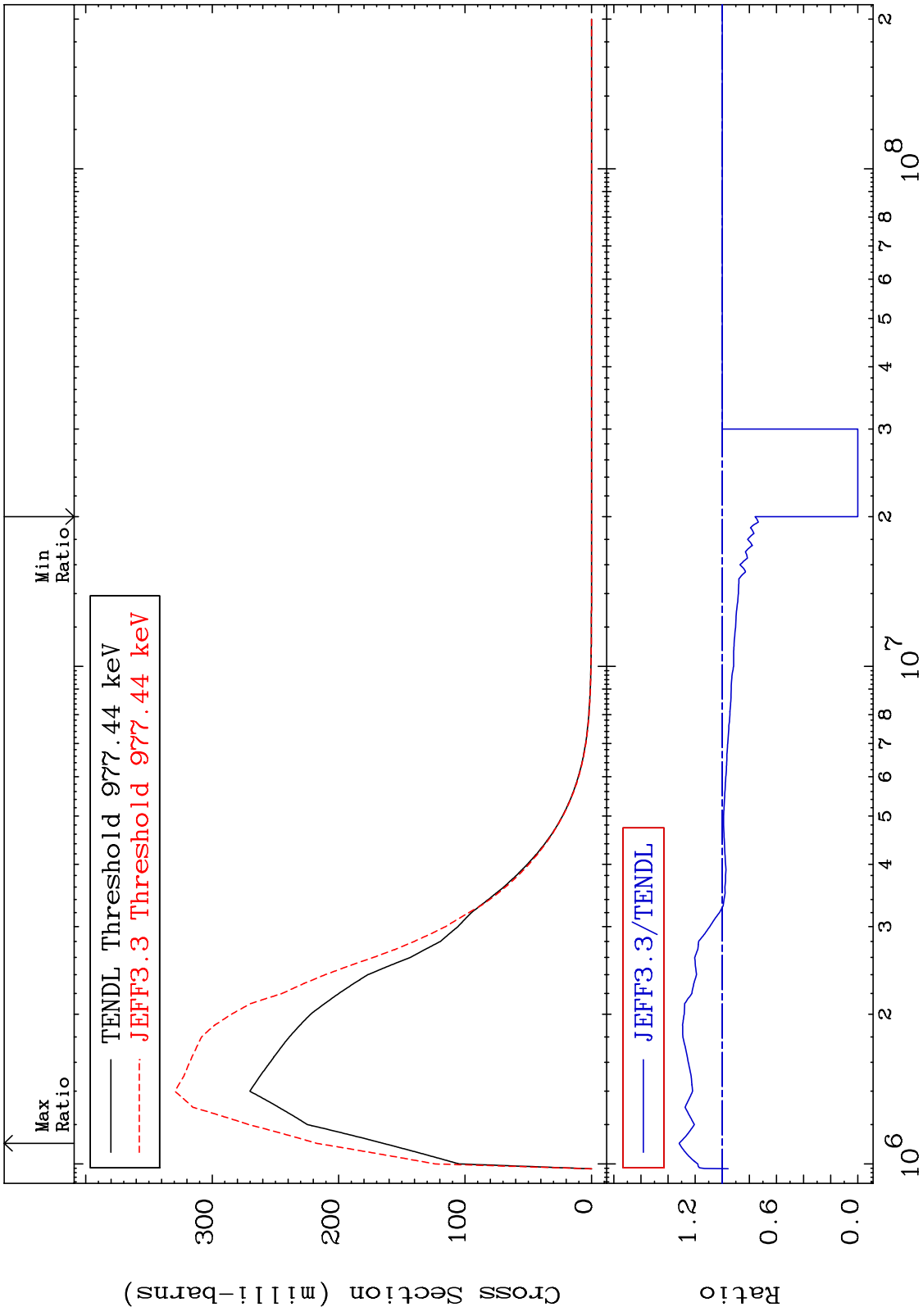


MAT 2925      MT= 51 (n,n') Level      29-Cu-63  
Cross Section      -100.0 To 54.99 %

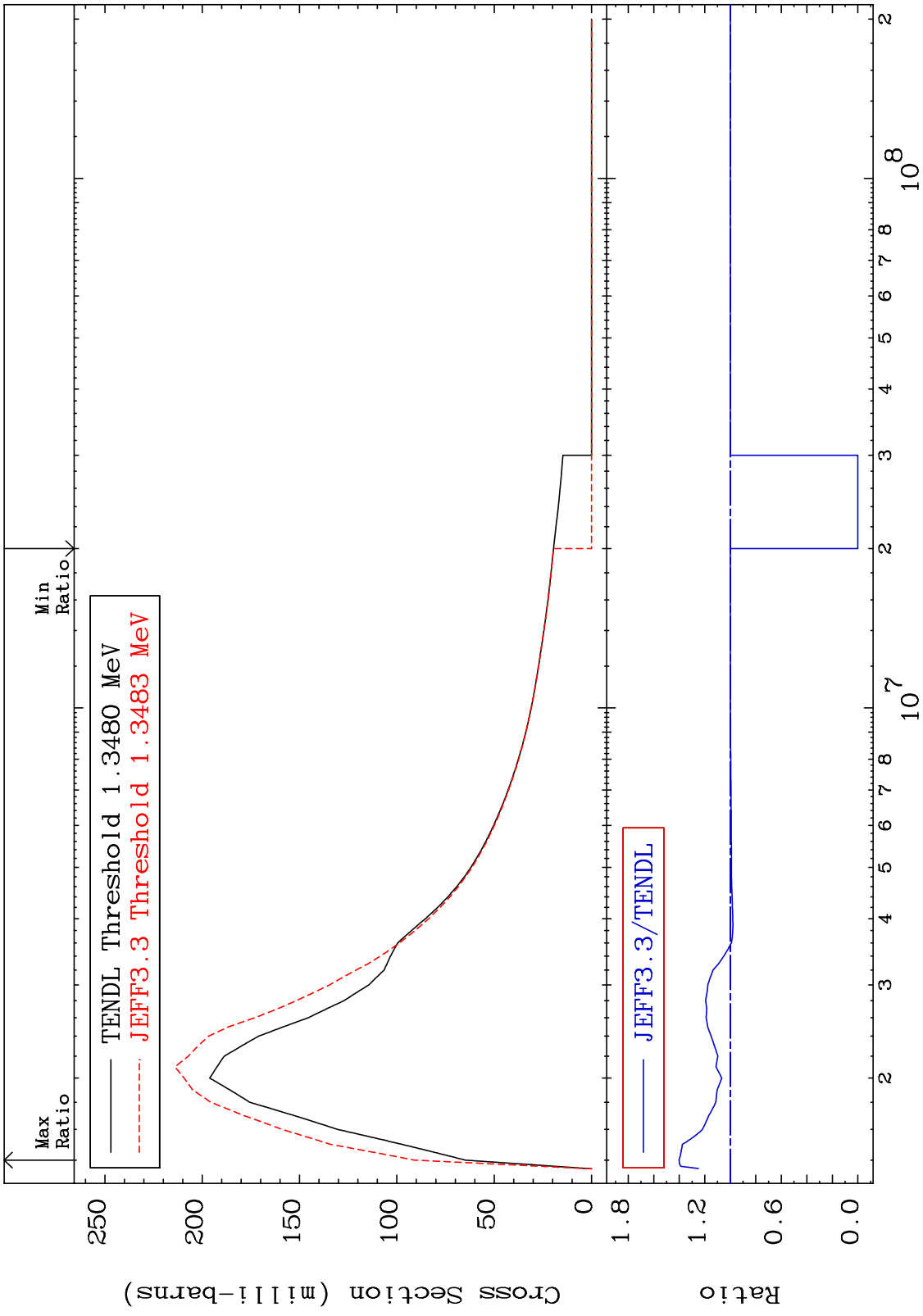


10      10<sup>6</sup>      10<sup>7</sup>      10<sup>8</sup>      29-Cu-63

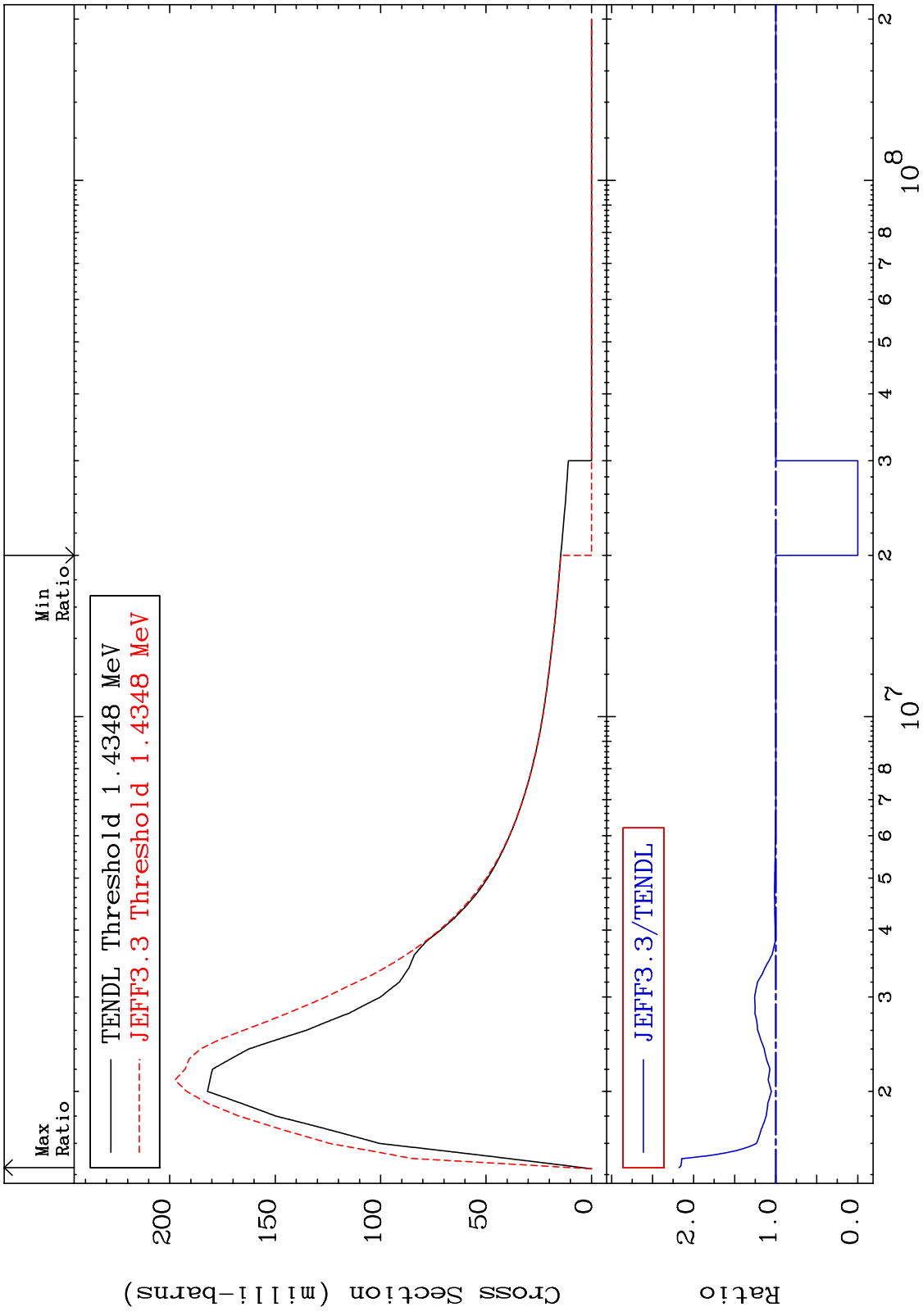
MAT 2925 MT= 52 (n,n') Level Cross Section -100.0 To 31.89 % 29-Cu-63



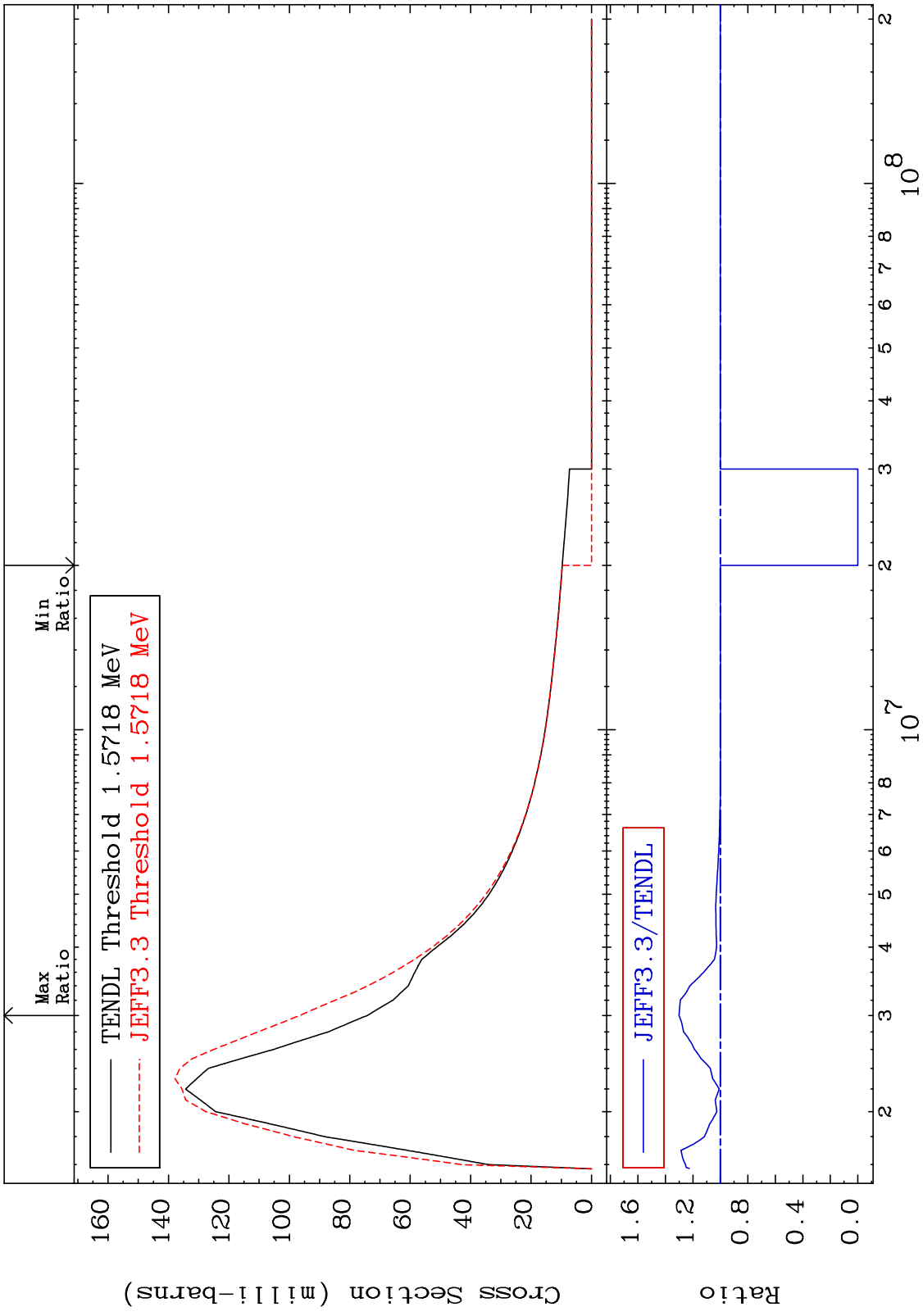
MAT 2925 MT= 53 (n,n') Level Cross Section -100.0 To 40.17 % 29-Cu-63



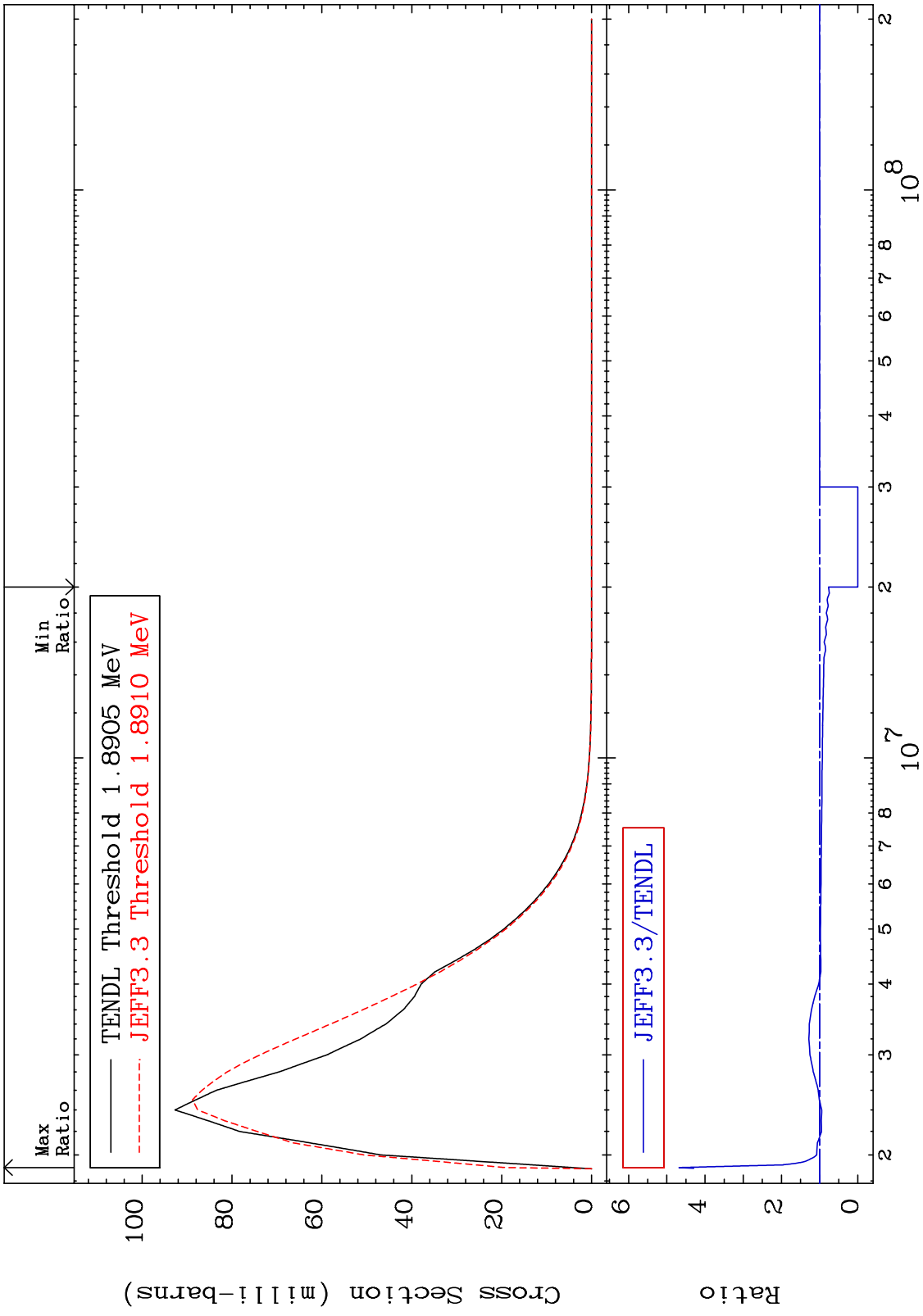
MAT 2925 MT= 54 (n,n') Level Cross Section -100.0 To 117.8 % 29-Cu-63



MAT 2925 MT= 55 (n,n') Level Cross Section -100.0 To 30.07 % 29-Cu-63

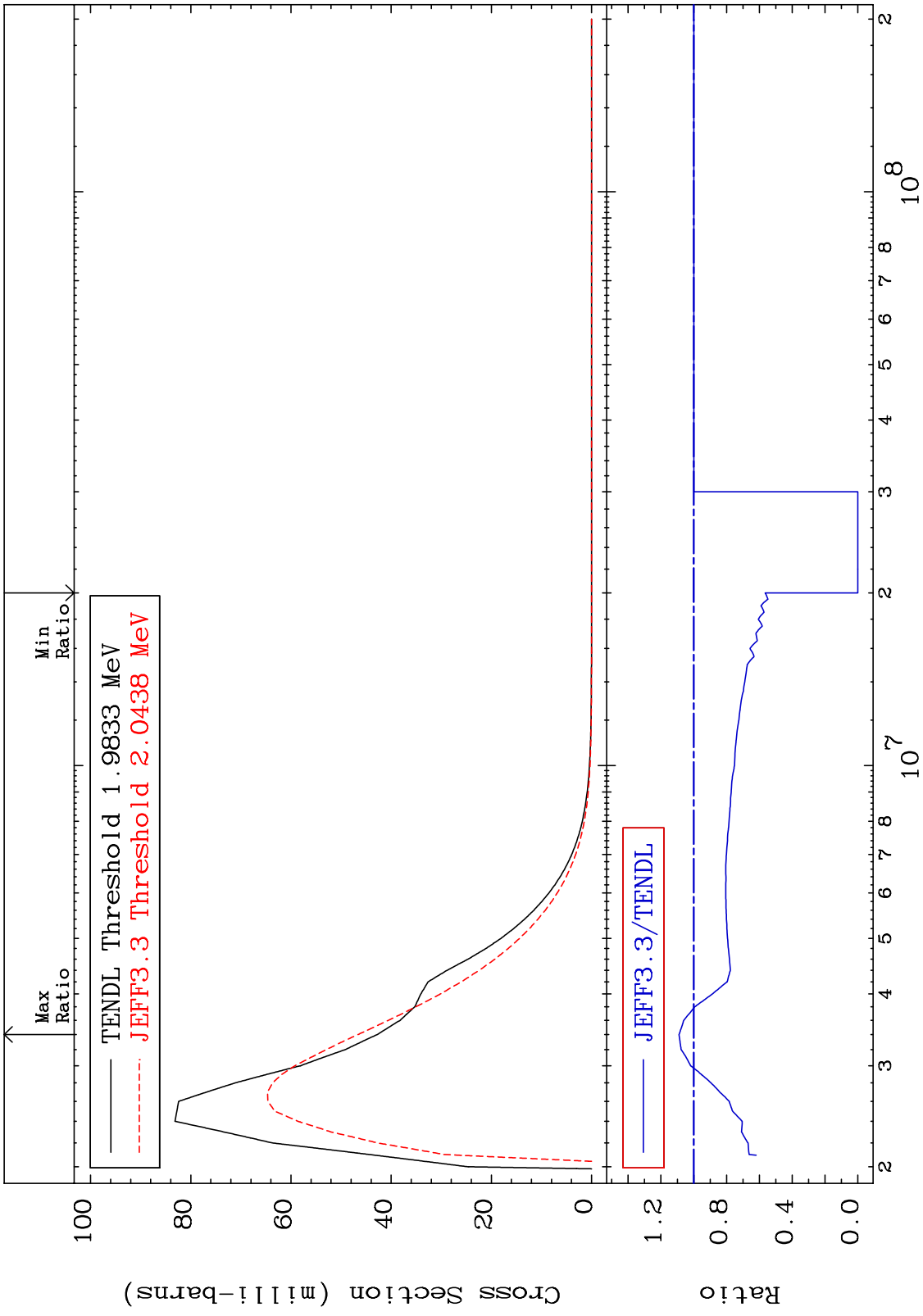


MAT 2925      MT= 56 (n,n') Level Cross Section      29-Cu-63  
-100.0 To 368.0 %

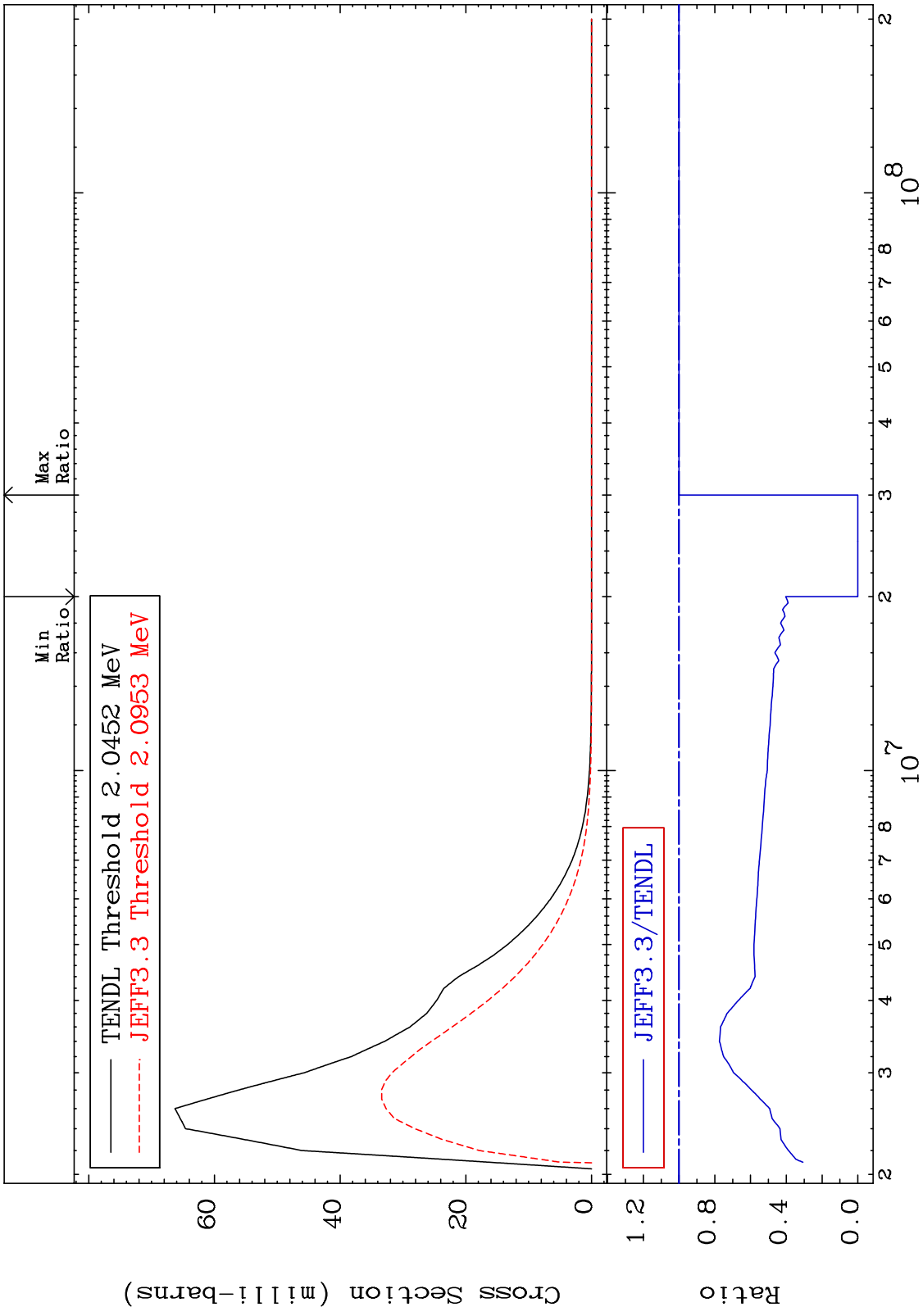




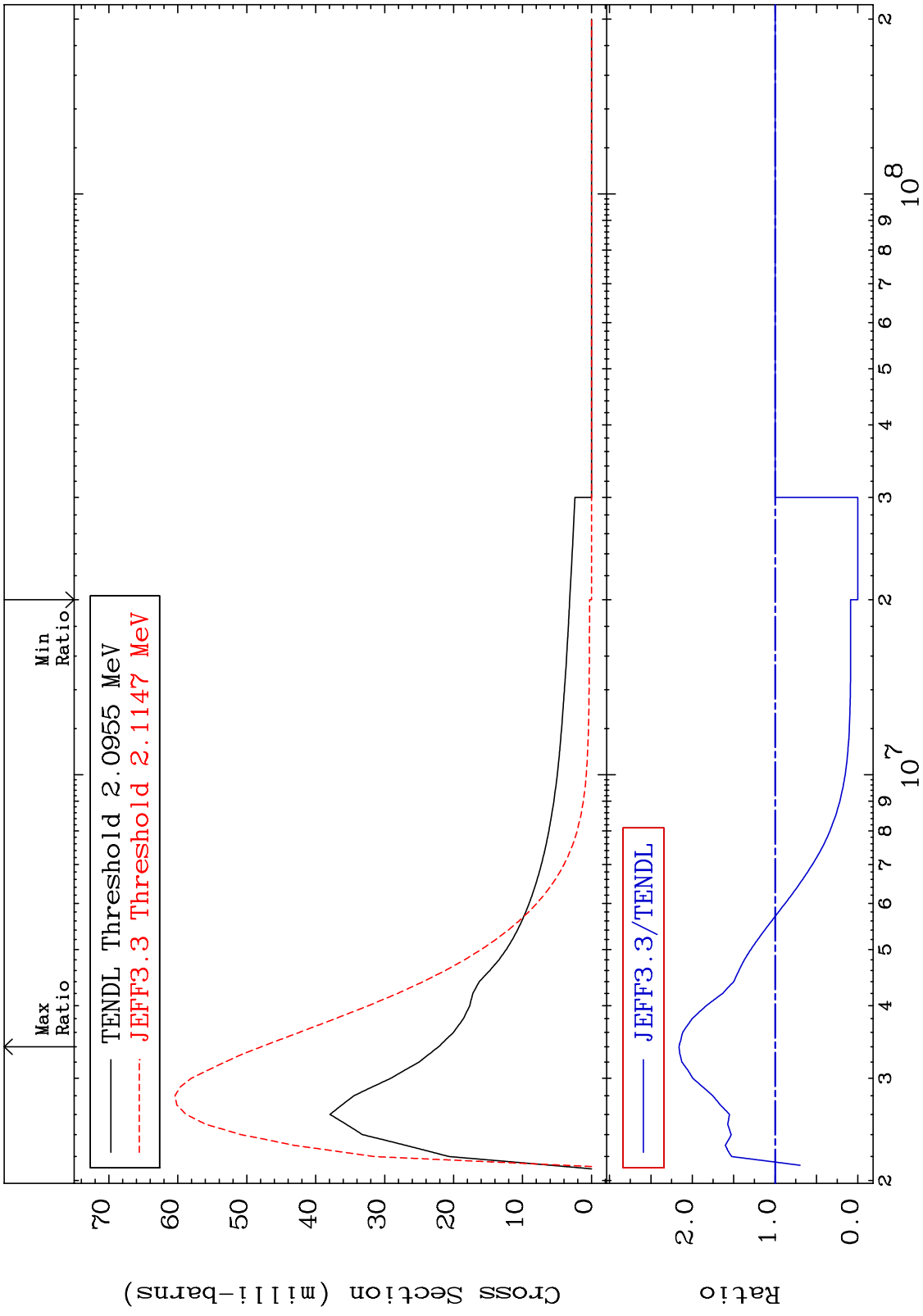
MAT 2925      MT= 57 (n,n') Level      29-Cu-63  
 Cross Section      -100.0 To 8.960 %



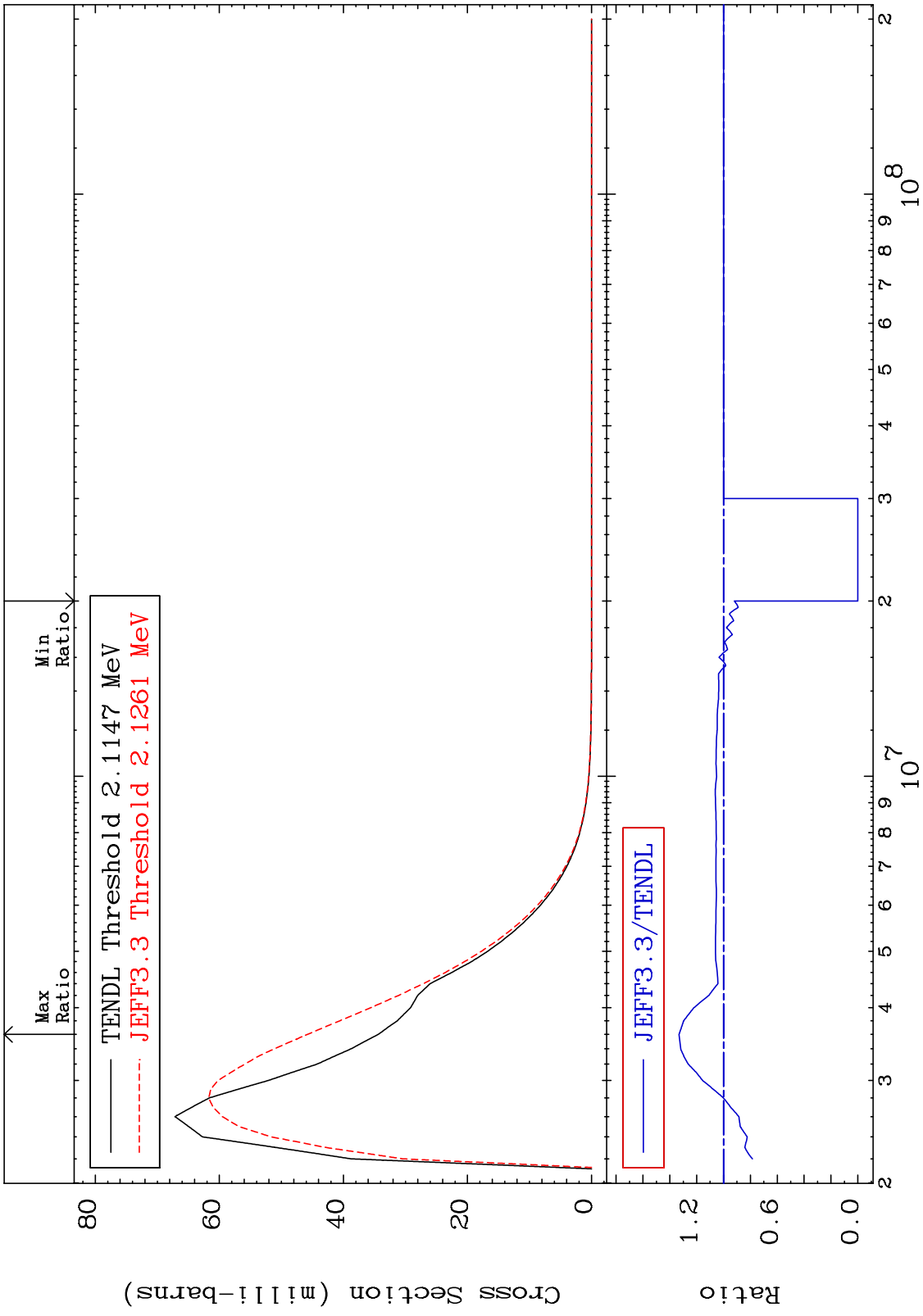
MAT 2925      MT= 58 (n,n') Level Cross Section      29-Cu-63  
 -100.0 To 0.000 %



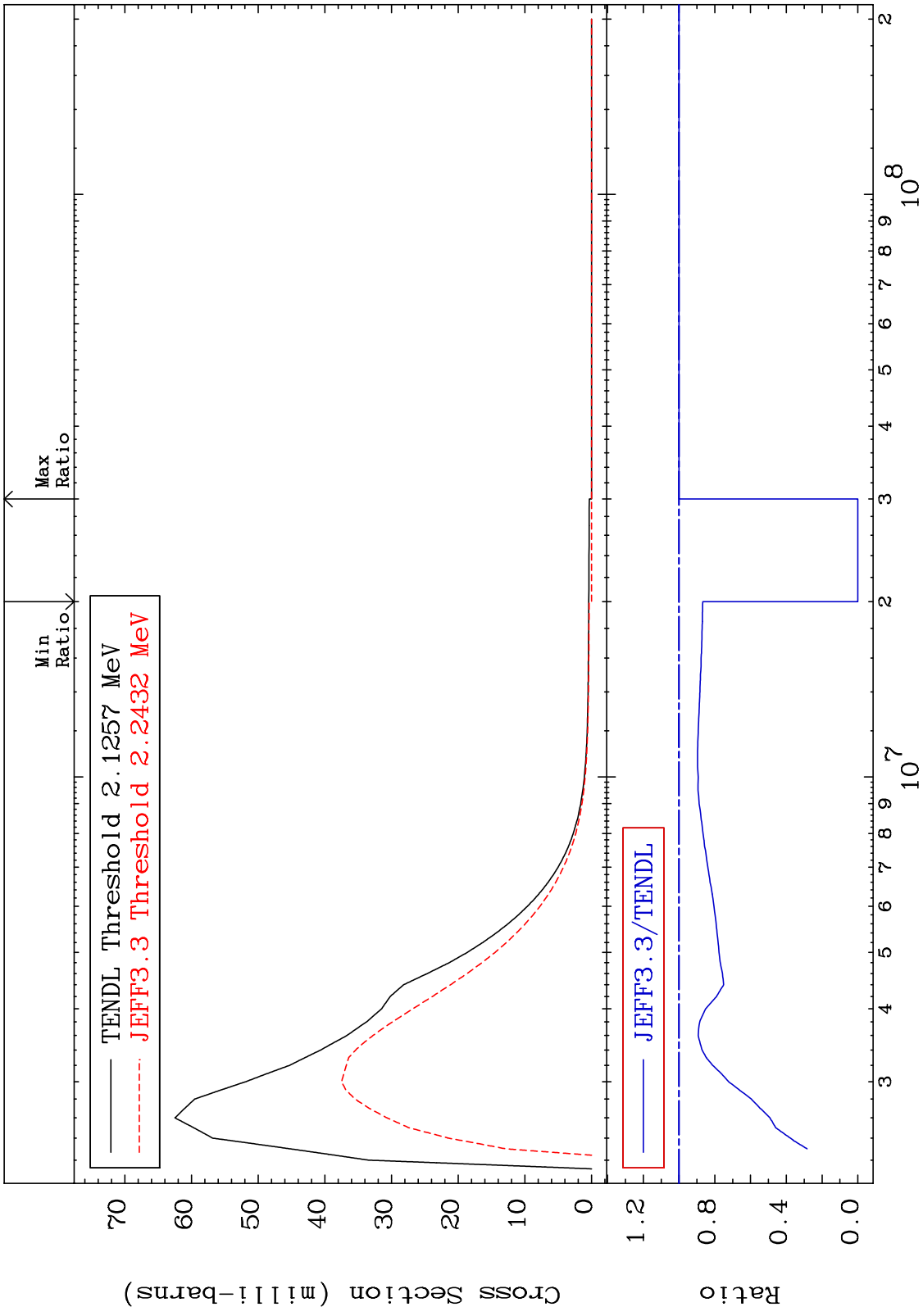
MAT 2925 MT= 59 (n,n') Level Cross Section -100.0 To 116.0 % 29-Cu-63



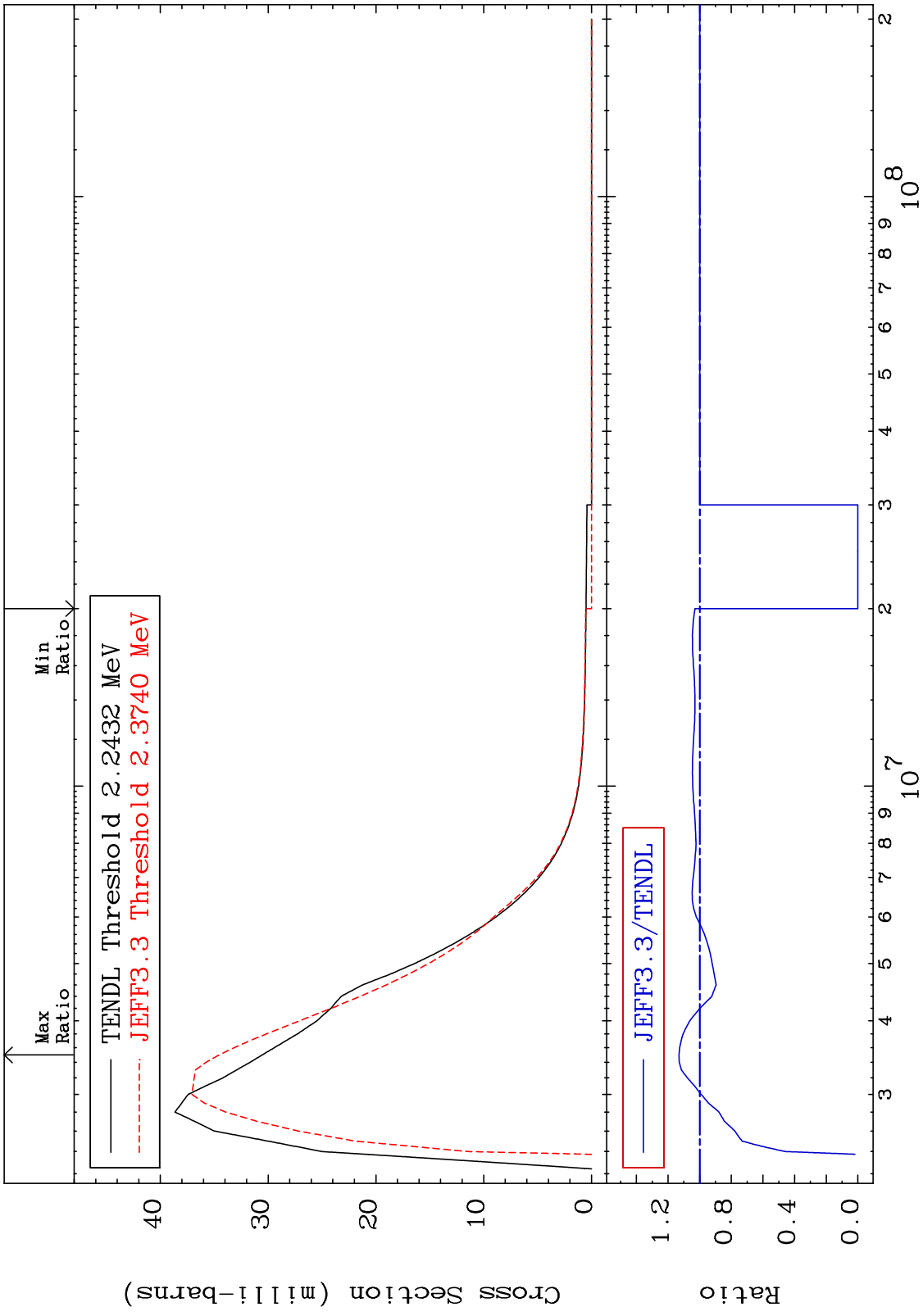
MAT 2925 MT= 60 (n,n') Level Cross Section -100.0 To 33.14 % 29-Cu-63



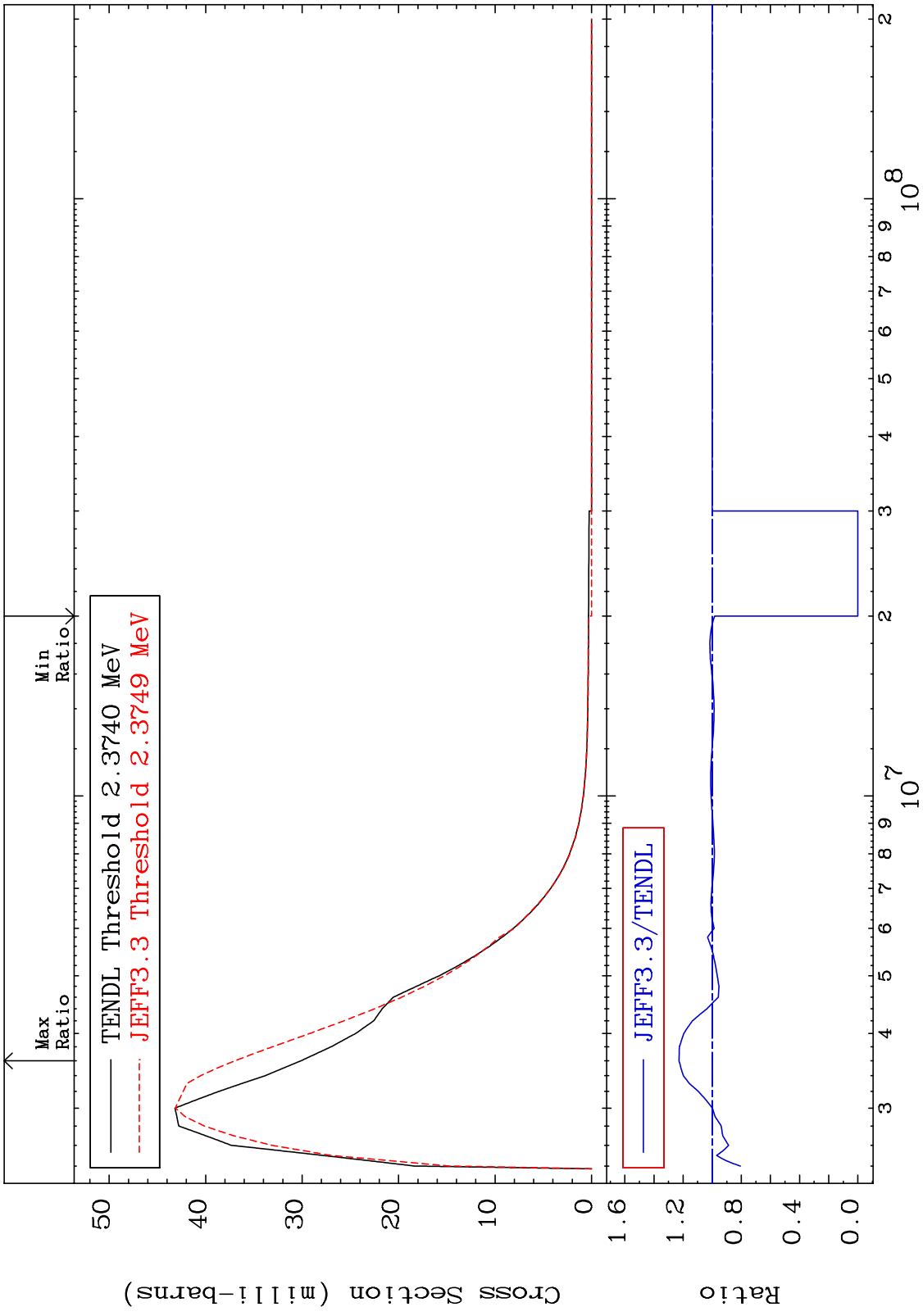
MAT 2925 MT= 61 (n,n') Level Cross Section -100.0 To 0.000 % 29-Cu-63



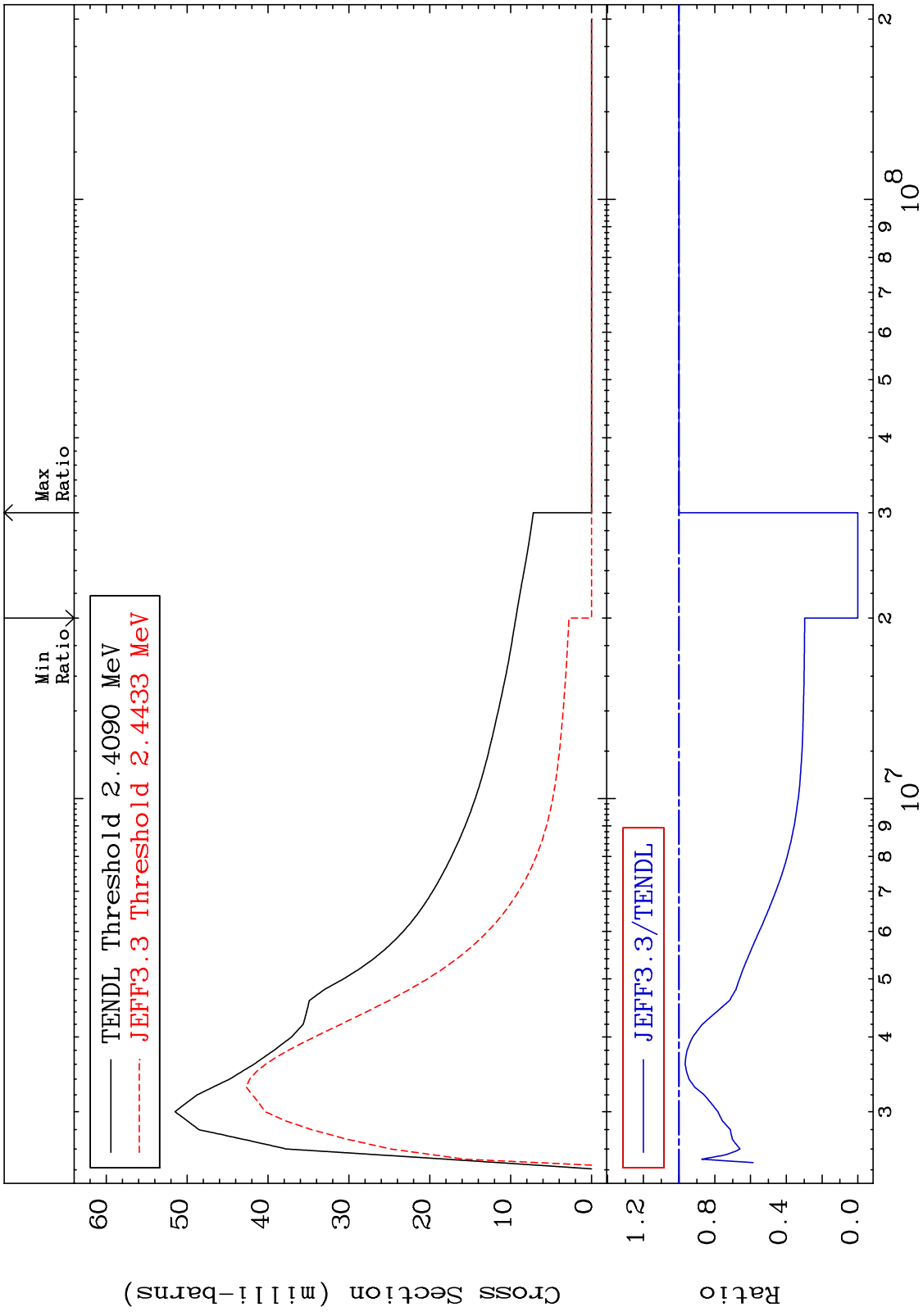
MAT 2925 MT= 62 (n,n') Level Cross Section -100.0 To 13.06 % 29-Cu-63



MAT 2925 MT= 63 (n,n') Level Cross Section -100.0 To 22.77 % 29-Cu-63

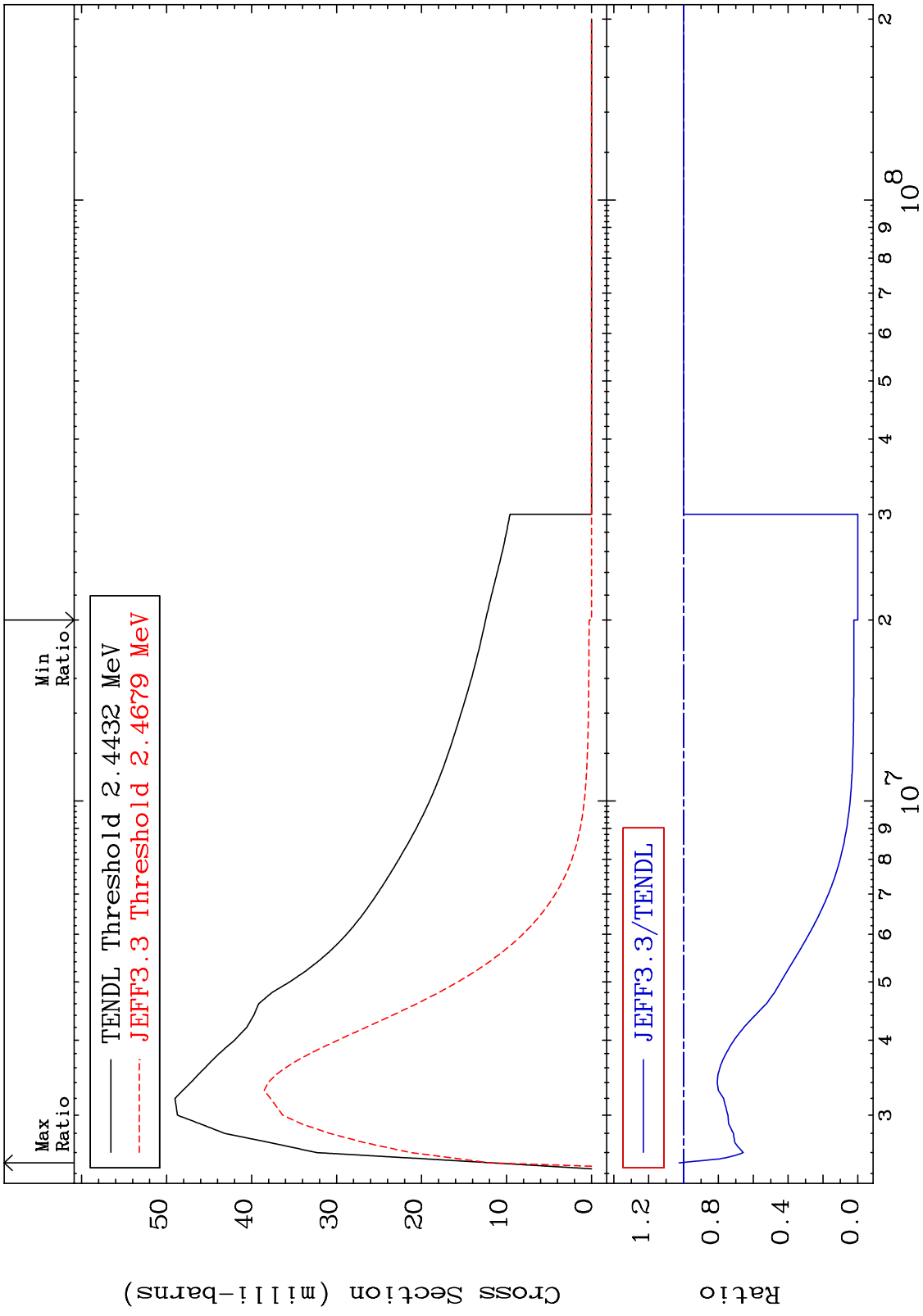


MAT 2925 MT= 64 (n,n') Level Cross Section -100.0 To 0.000 % 29-Cu-63

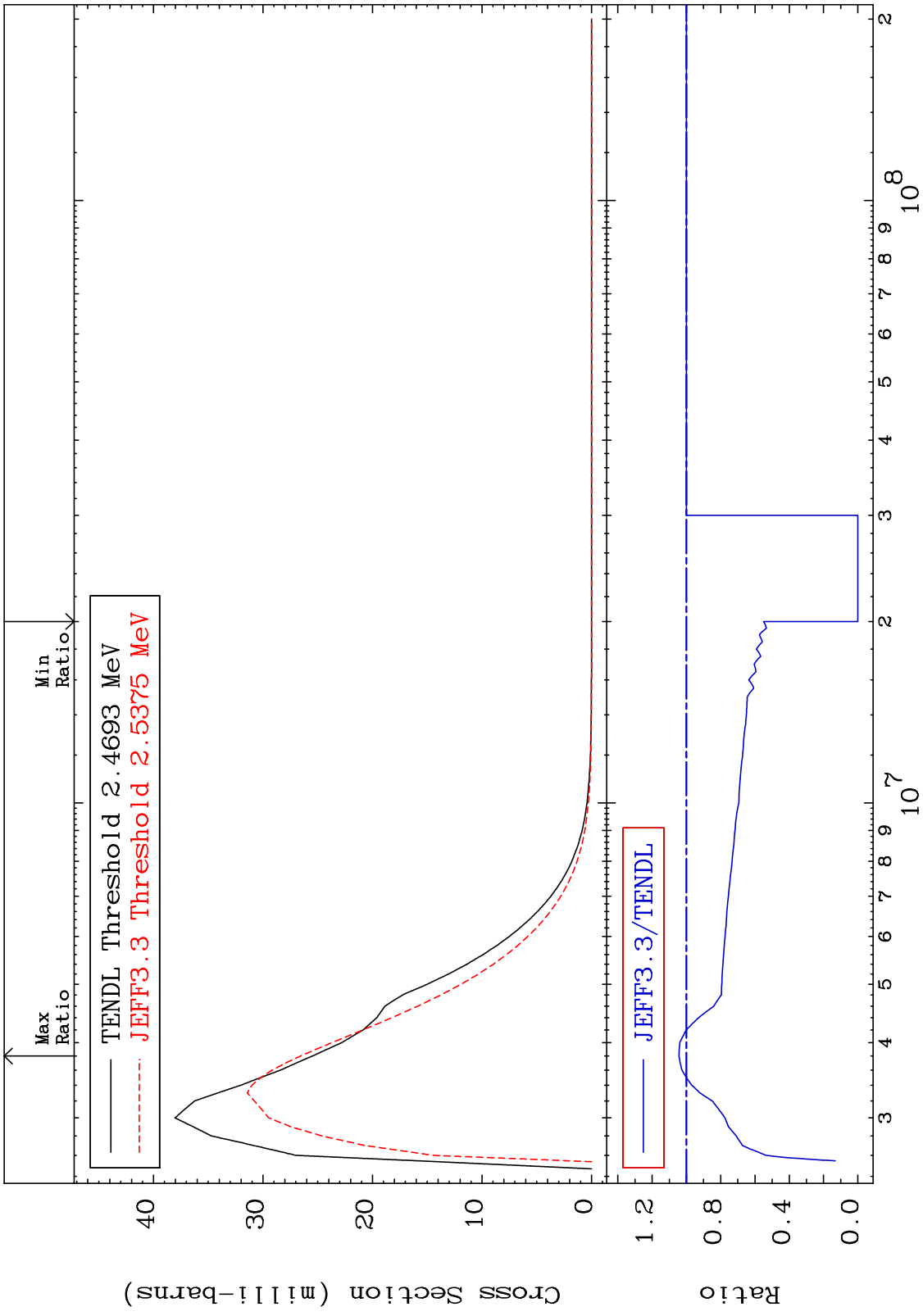




MAT 2925 MT= 65 (n,n') Level Cross Section -100.0 To 2.572 % 29-Cu-63

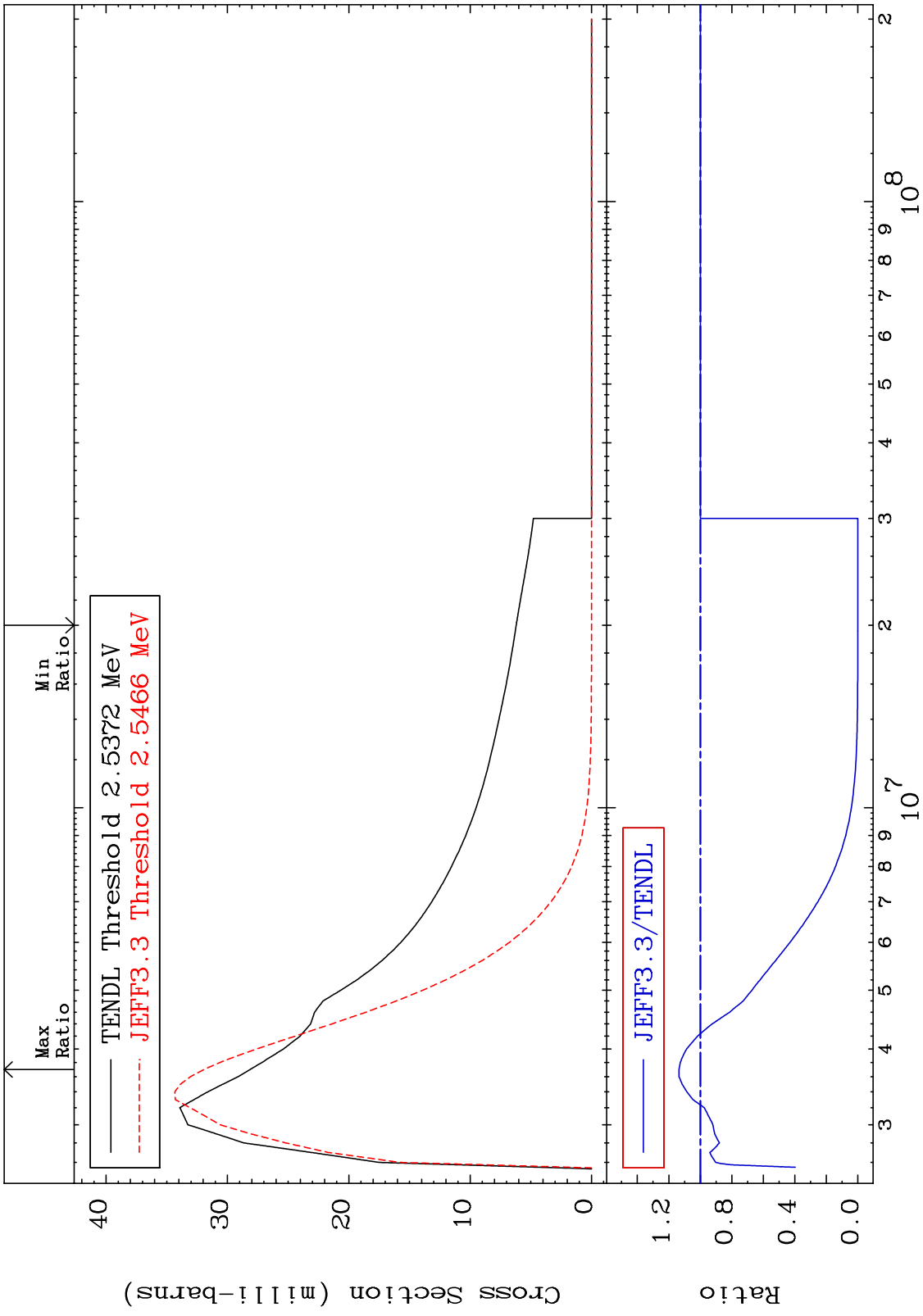


MAT 2925 MT= 66 (n,n') Level Cross Section -100.0 To 4.298 % 29-Cu-63



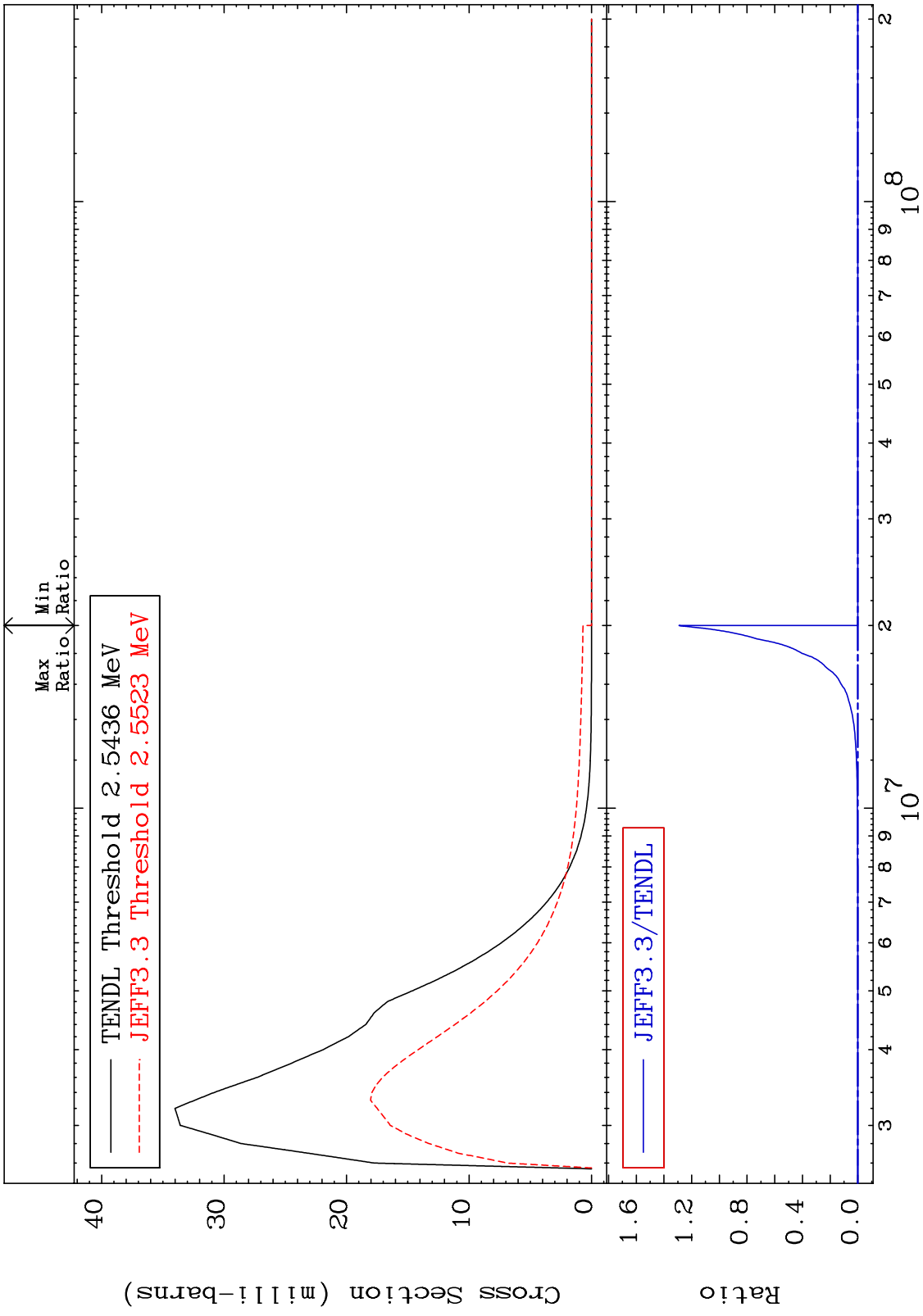
Incident Energy (eV) 29-Cu-63

MAT 2925 MT= 67 (n,n') Level Cross Section -100.0 To 13.51 % 29-Cu-63

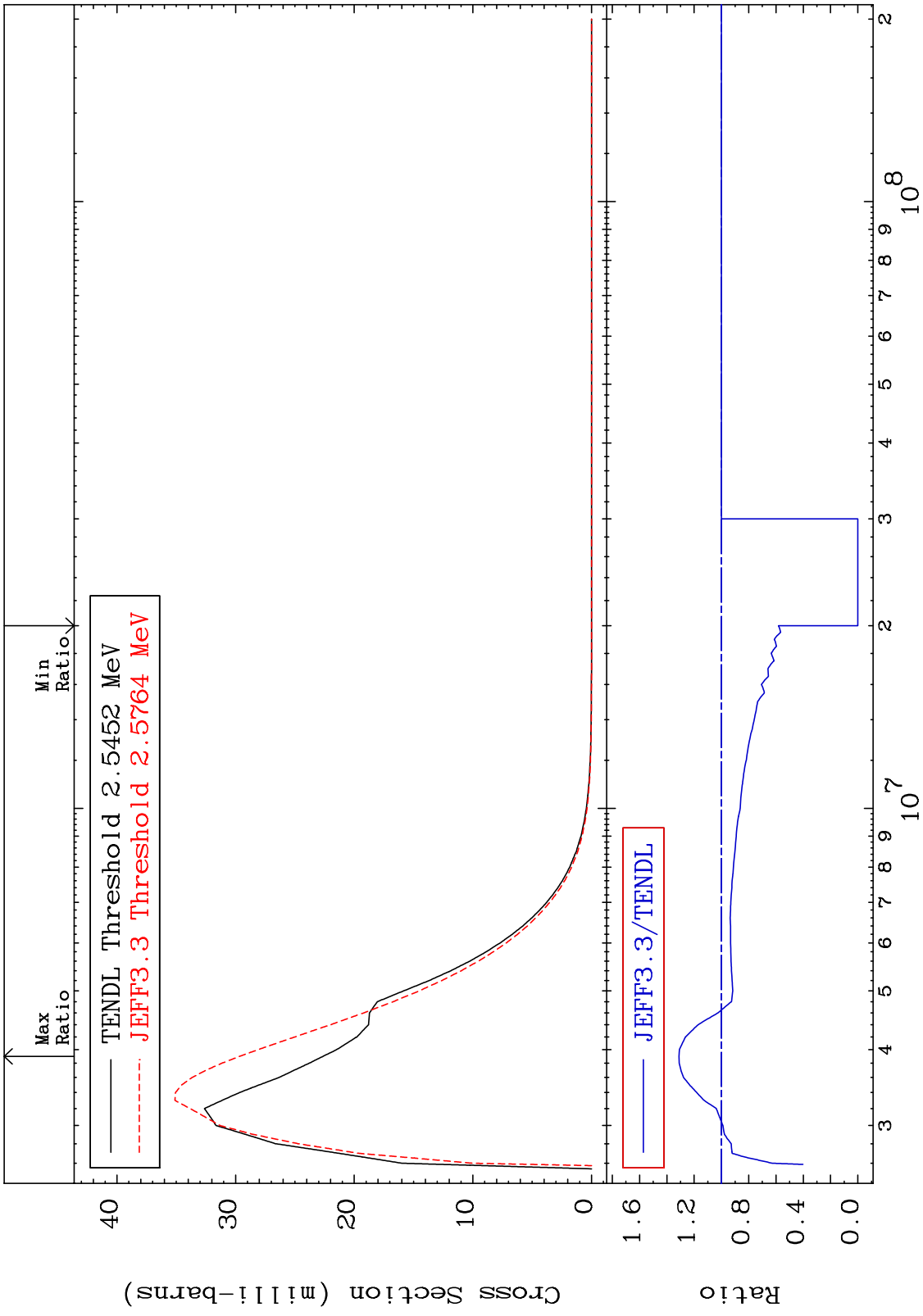


26 29-Cu-63

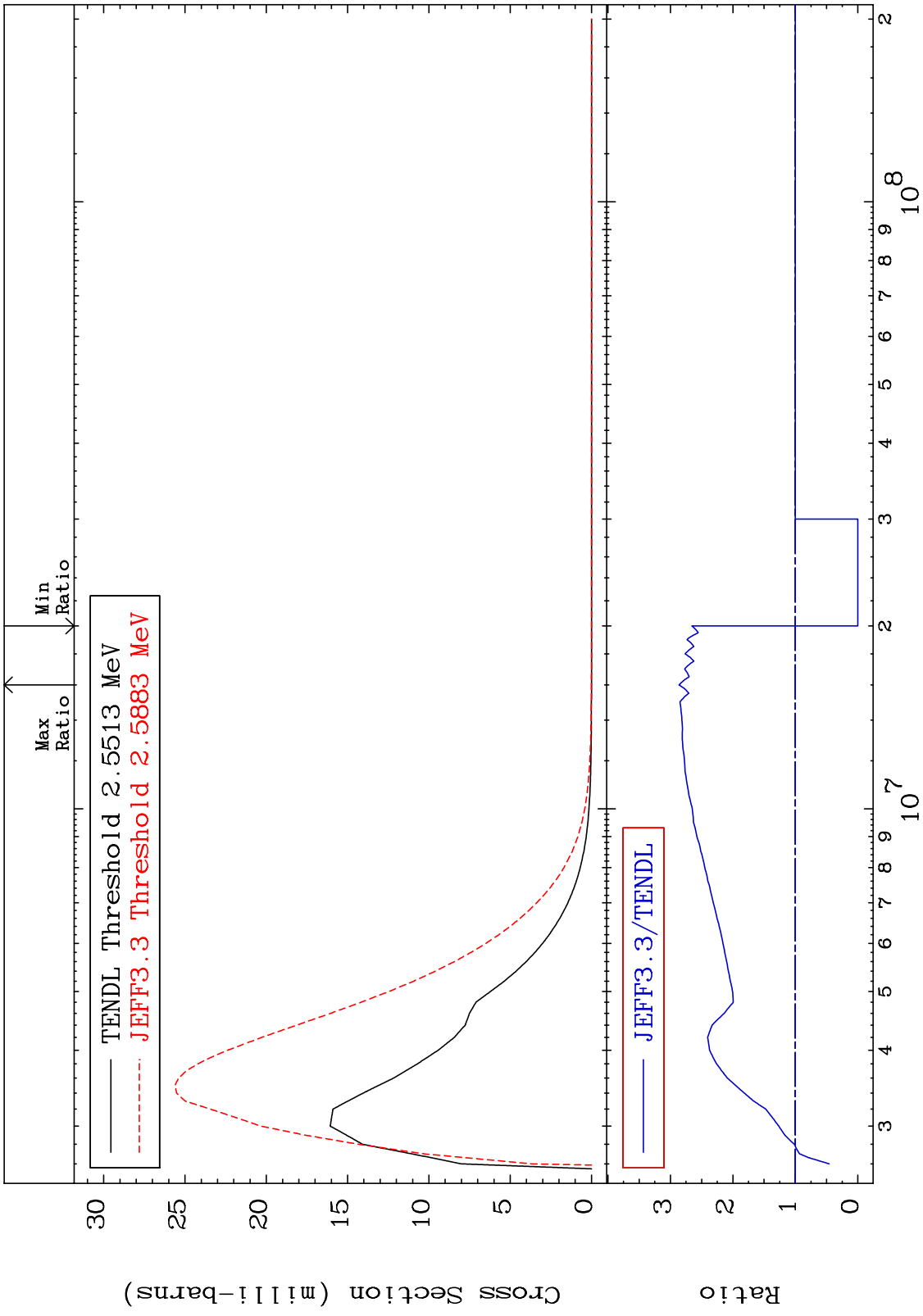
MAT 2925 MT= 68 (n,n') Level Cross Section -100.0 To 9999. % 29-Cu-63



MAT 2925 MT= 69 (n,n') Level Cross Section -100.0 To 31.06 % 29-Cu-63



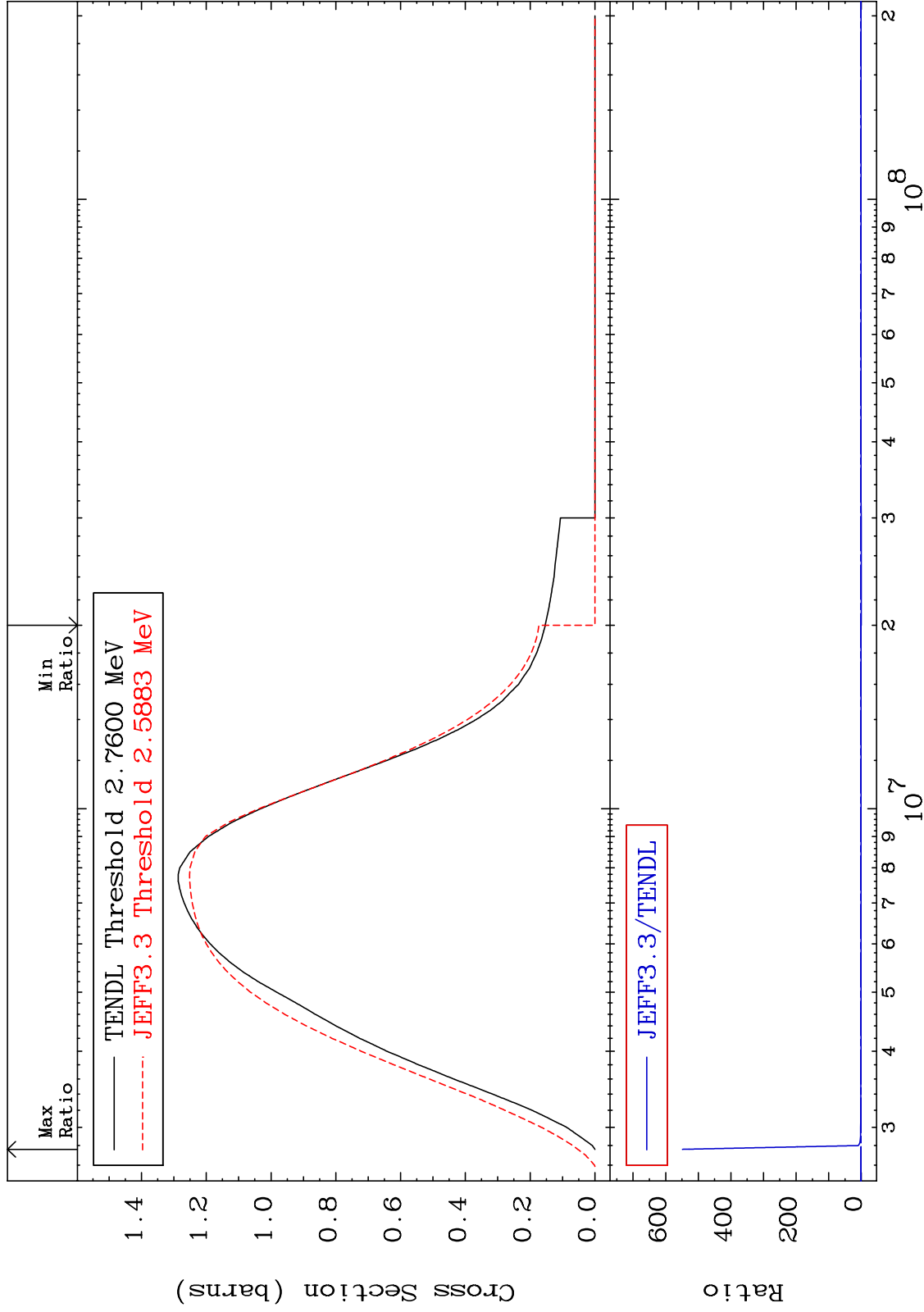
MAT 2925 MT= 70 (n,n') Level Cross Section -100.0 To 186.1 % 29-Cu-63



MAT 2925

(n, n') Continuum  
Cross Section

29-Cu-63  
-100.0 To 9999. %



30

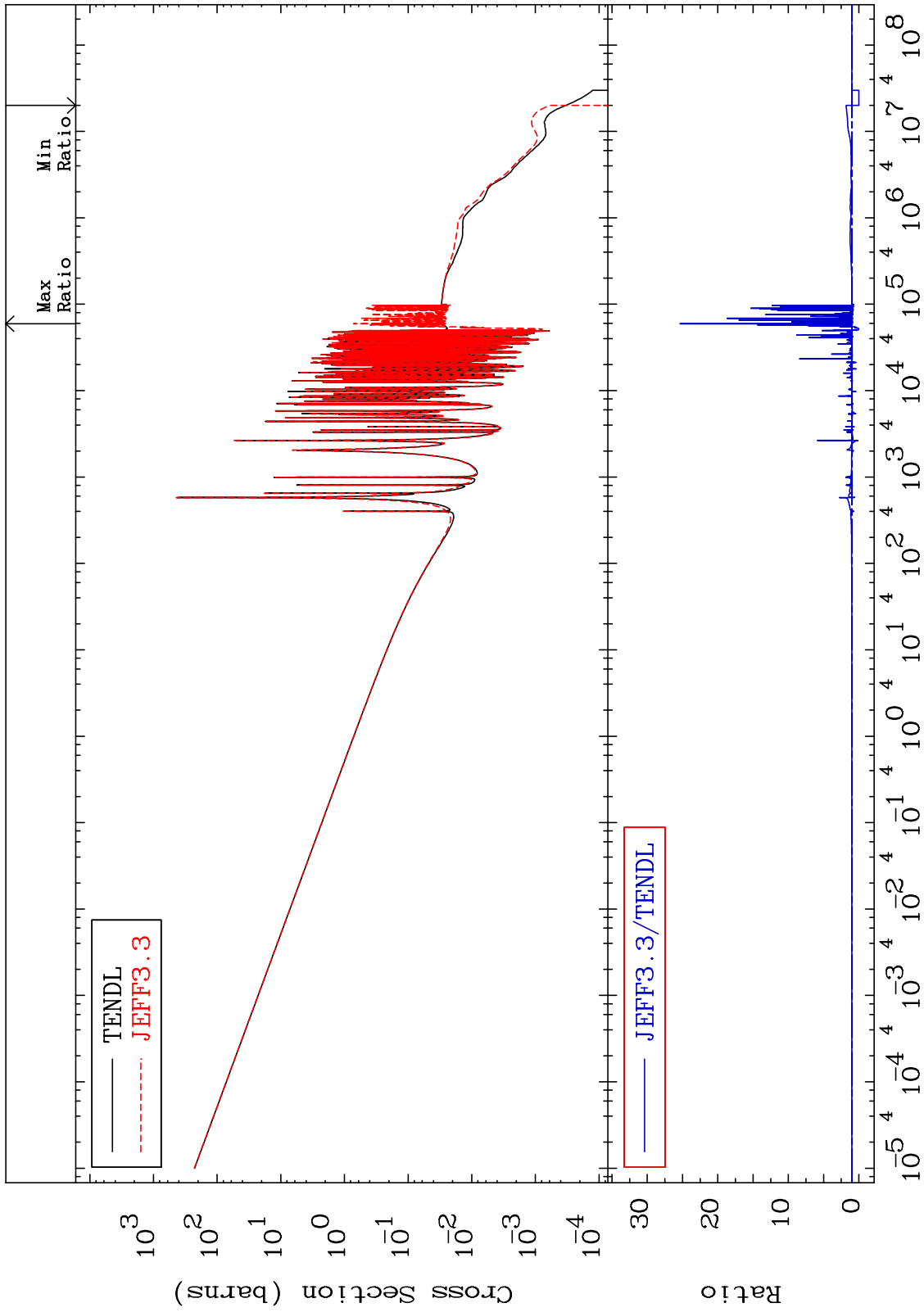
Incident Energy (eV)

29-Cu-63

MAT 2925

(n,  $\gamma$ )  
Cross Section

29-Cu-63  
-100.0 To 2433. %



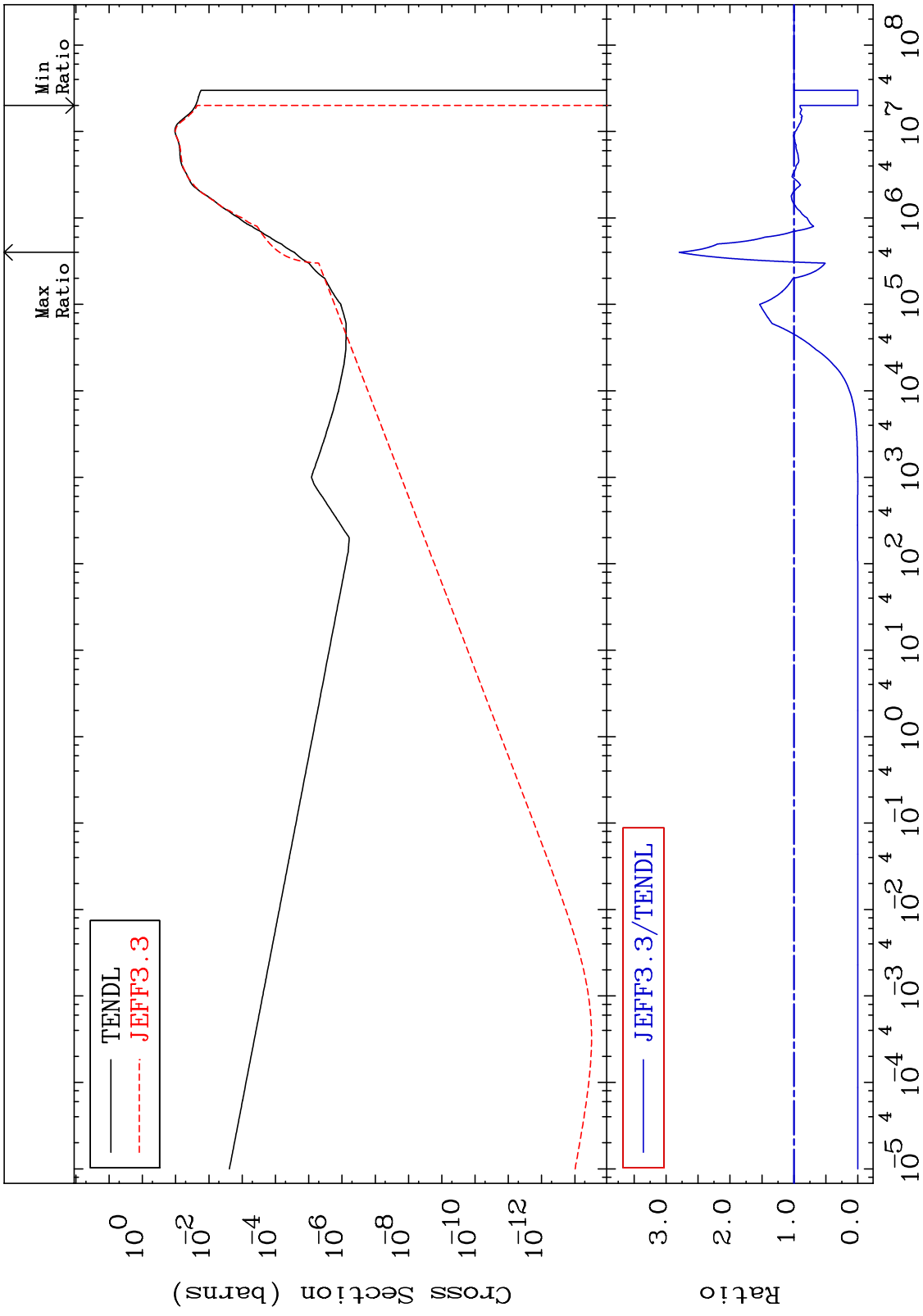
31

Incident Energy (eV)

29-Cu-63



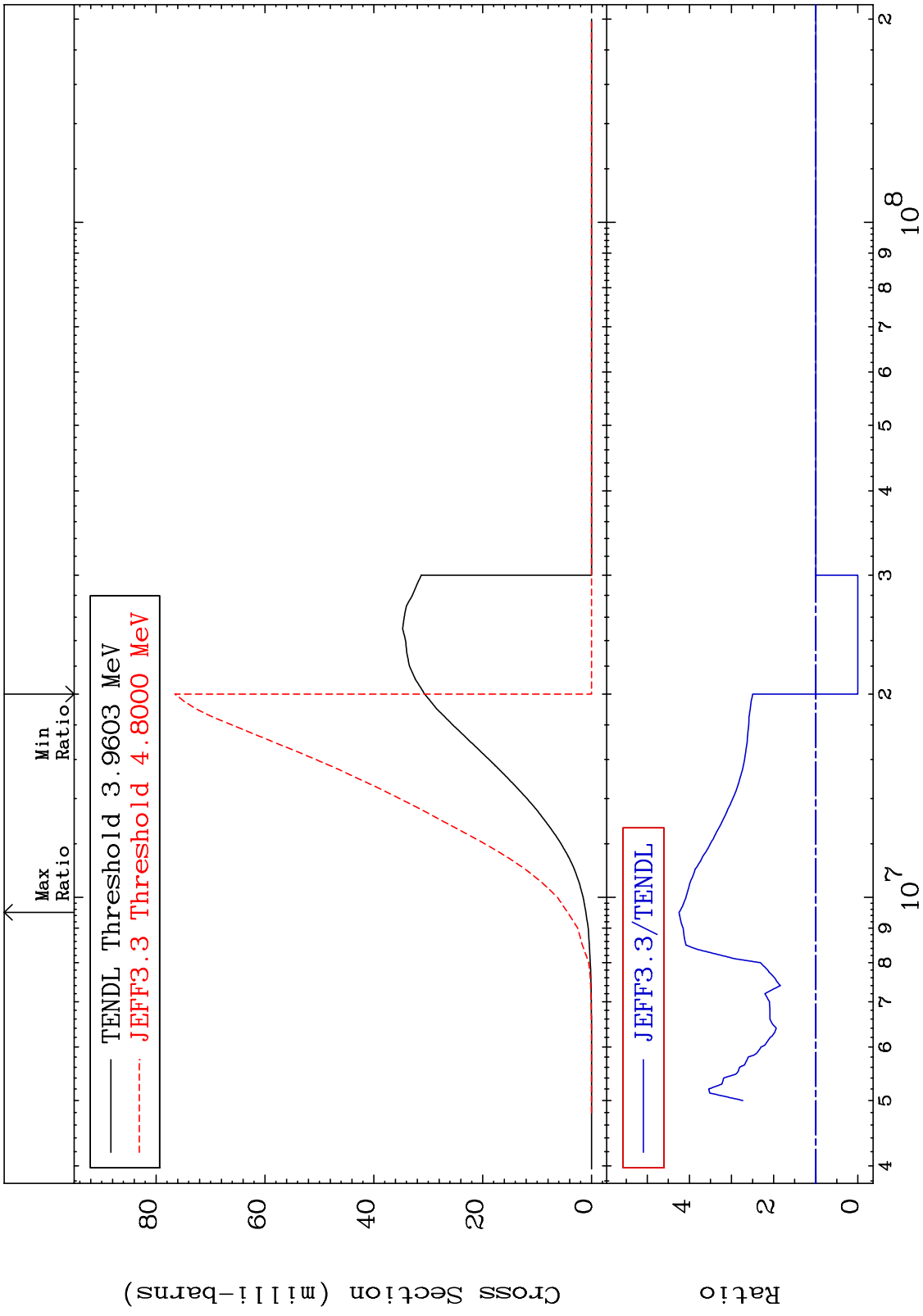
MAT 2925 (n,p) Cross Section 29-Cu-63 -100.0 To 179.7 %

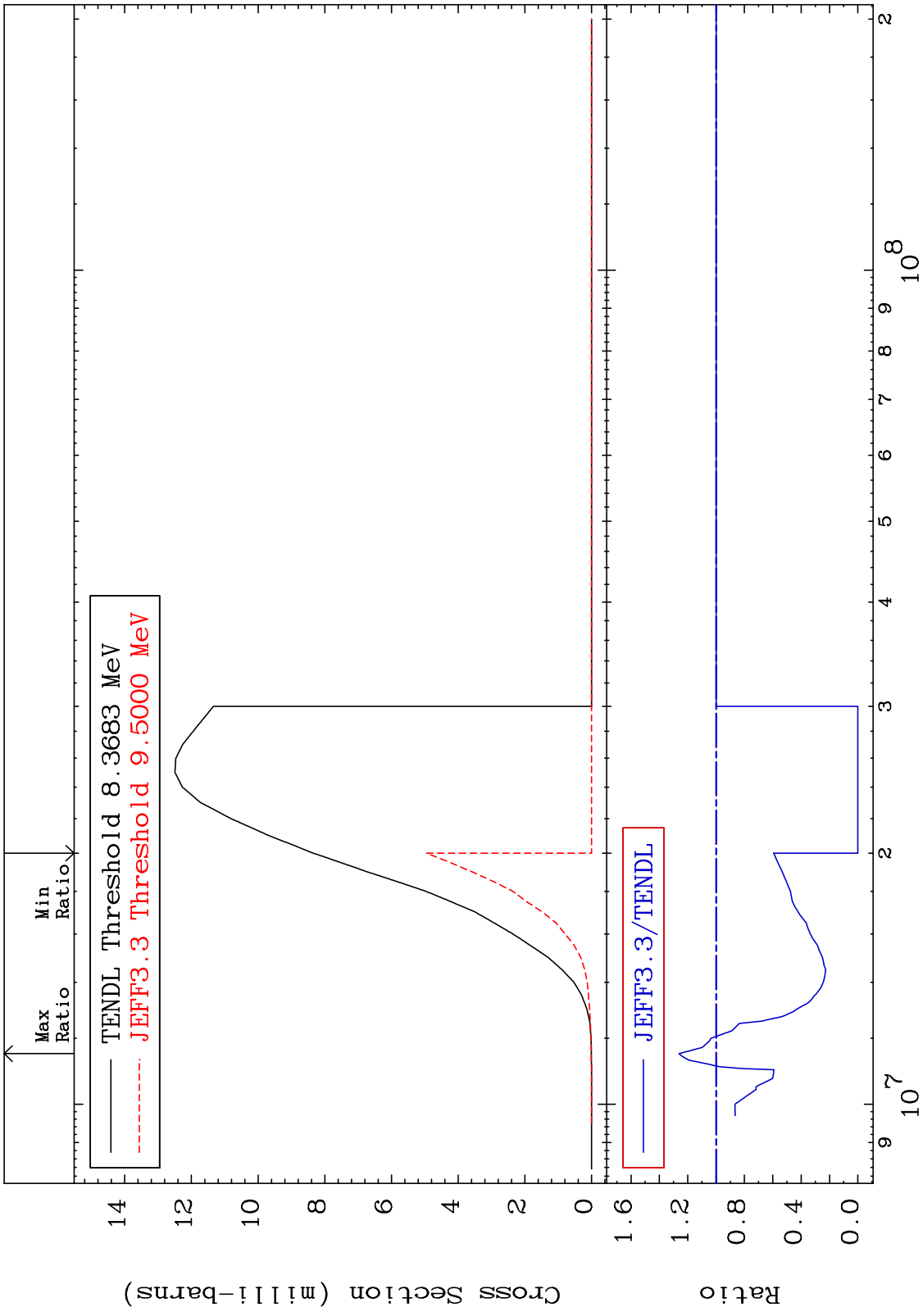


32 29-Cu-63

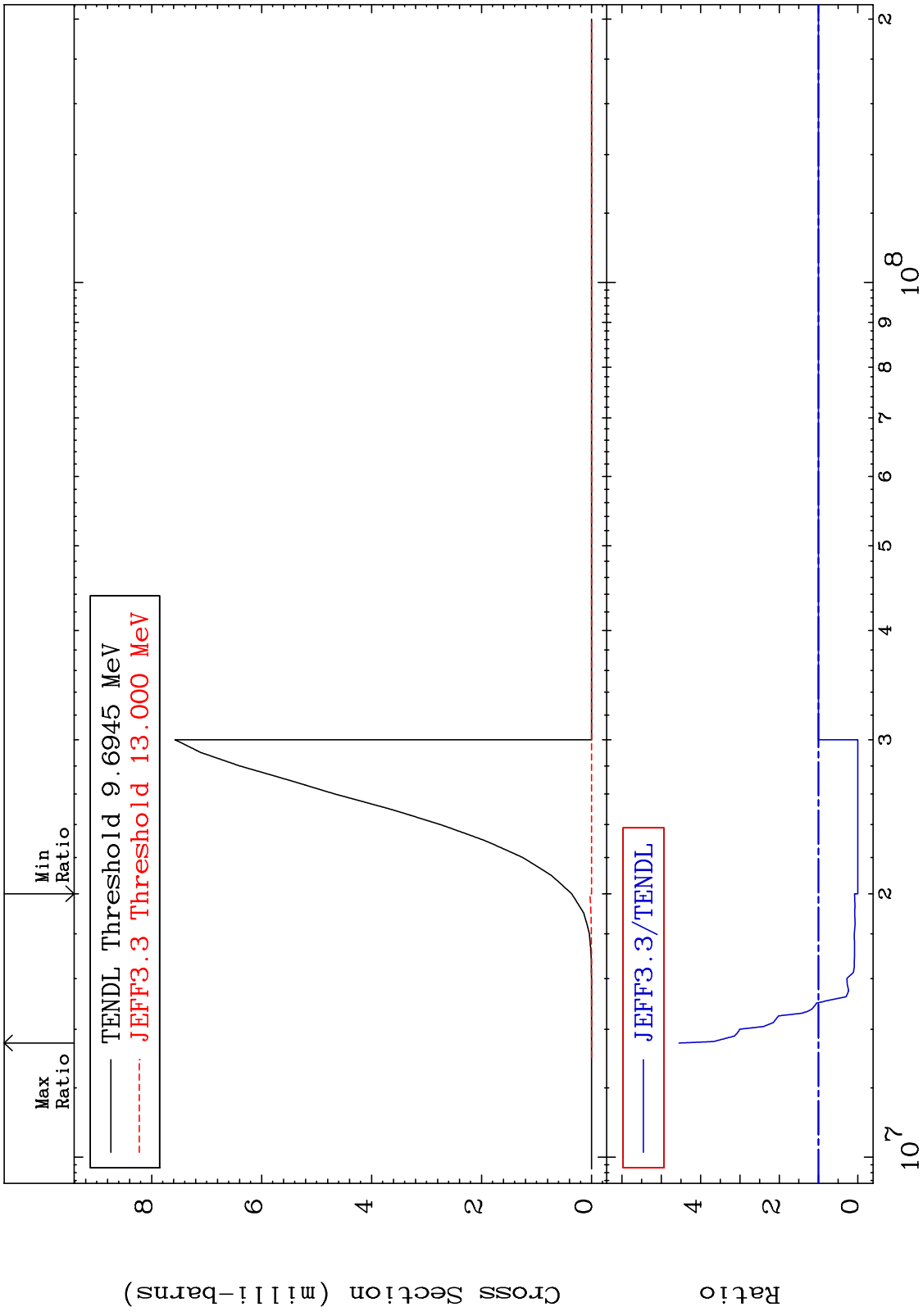
MAT 2925 29-Cu-63  
-100.0 To 324.6 %

(n,d)  
 Cross Section



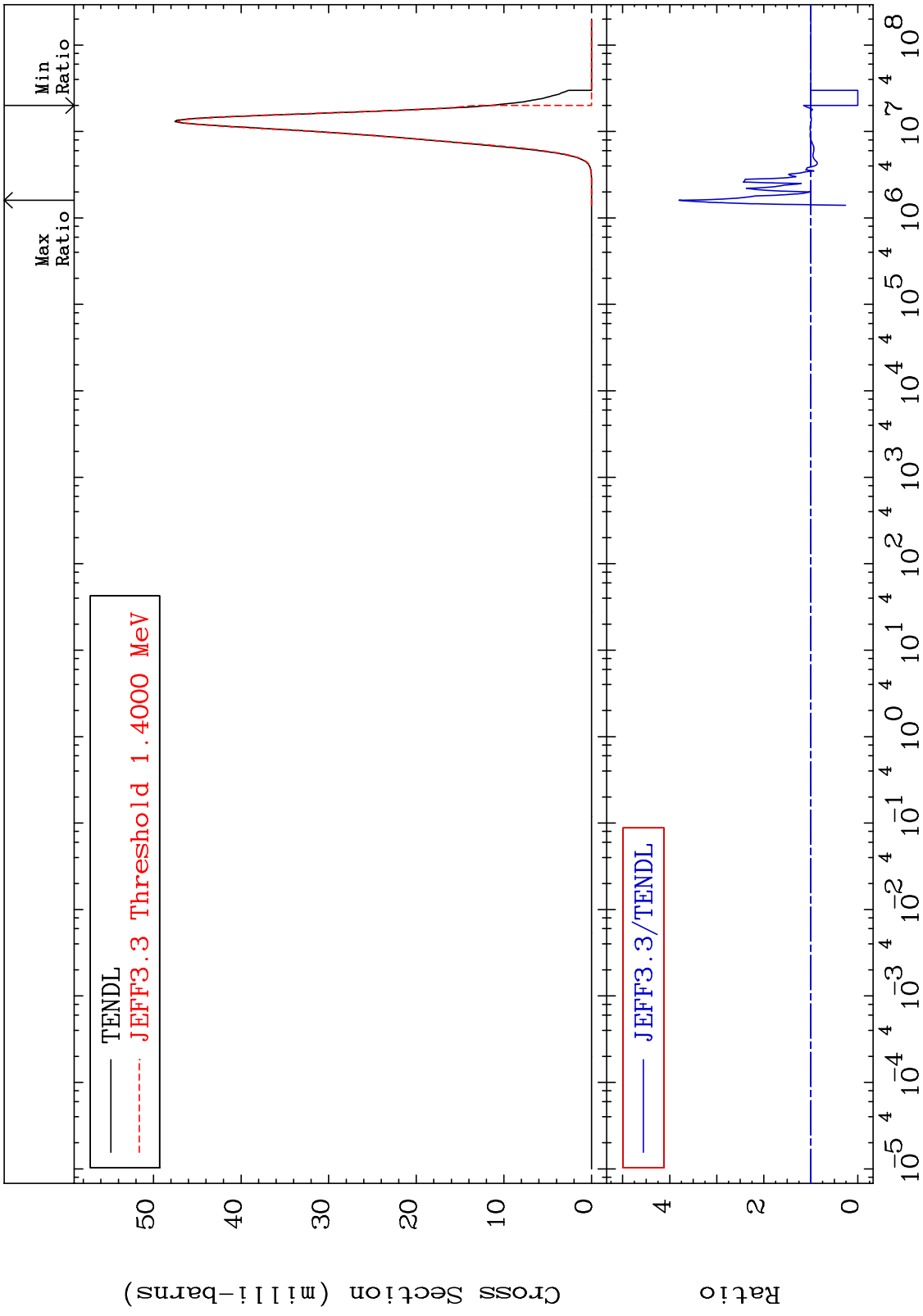


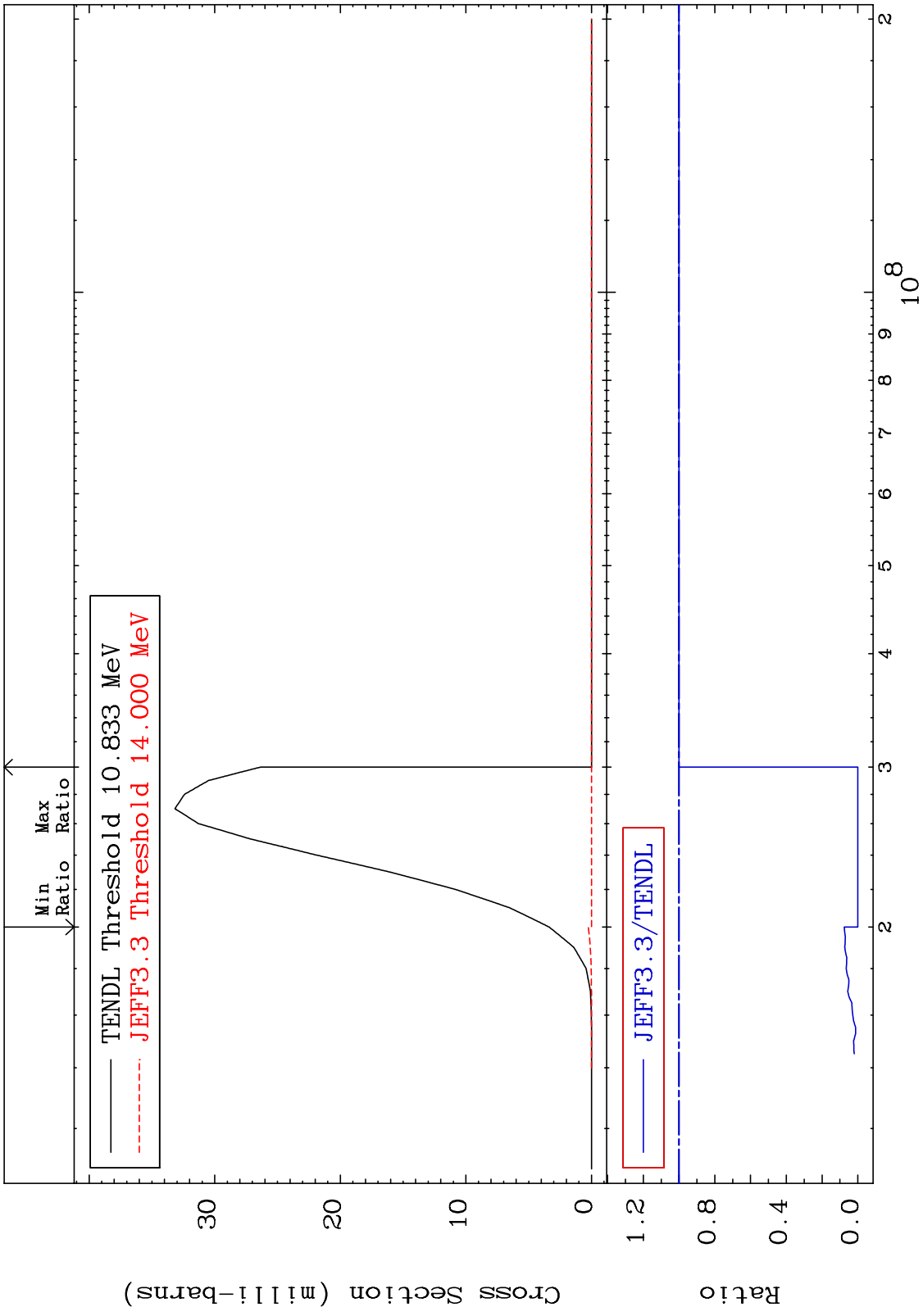
MAT 2925 (n, He-3) 29-Cu-63  
 Cross Section -100.0 To 354.8 %



35 29-Cu-63

MAT 2925  $(n, \alpha)$  Cross Section 29-Cu-63  
 -100.0 To 280.1 %

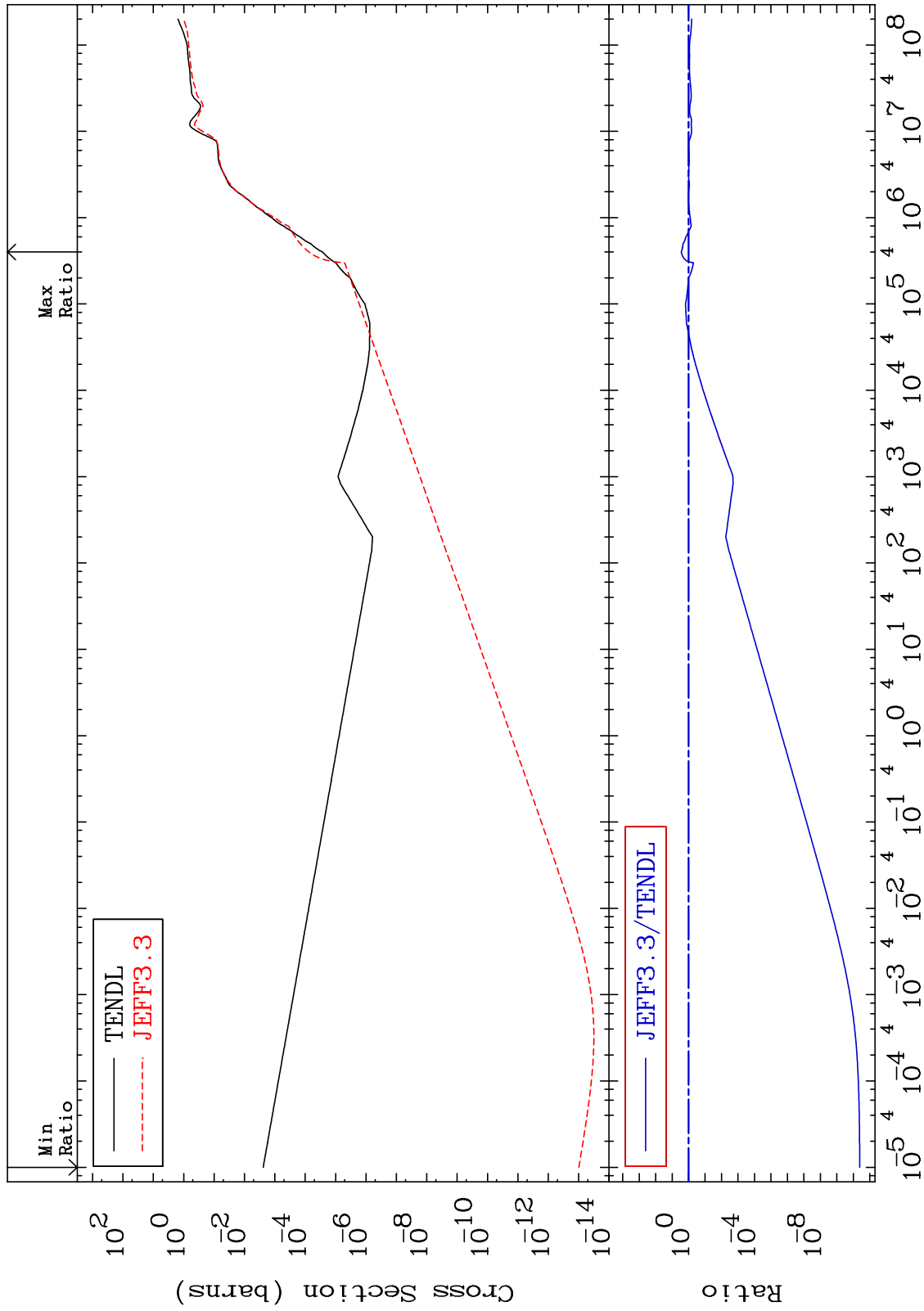




MAT 2925

Hydrogen Production  
Cross Section

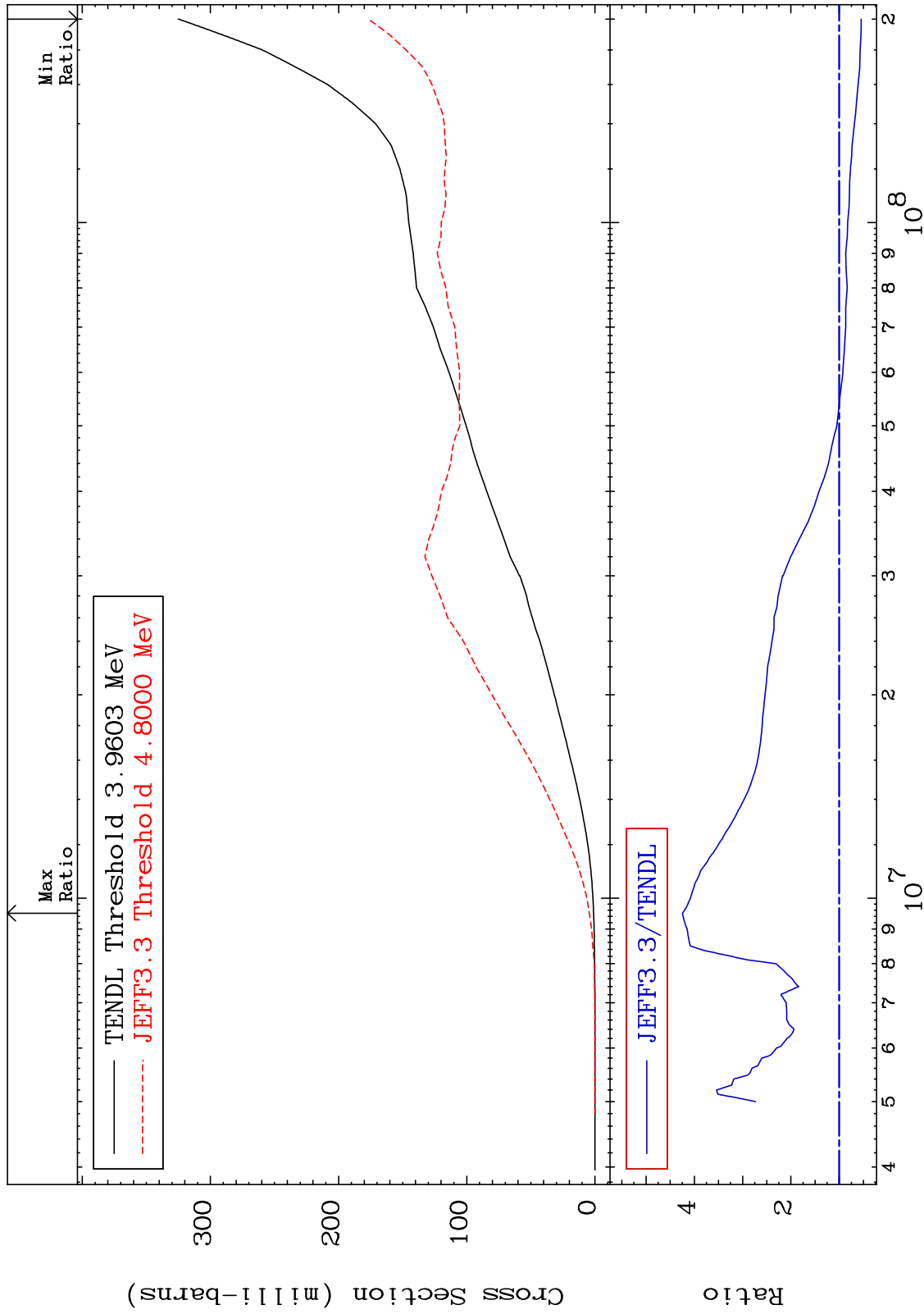
29-Cu-63  
-100.0 To 179.7 %



MAT 2925

Deuterium Production  
Cross Section

<sup>29</sup>Cu-63  
-45.60 To 324.6 %



39

Incident Energy (eV)

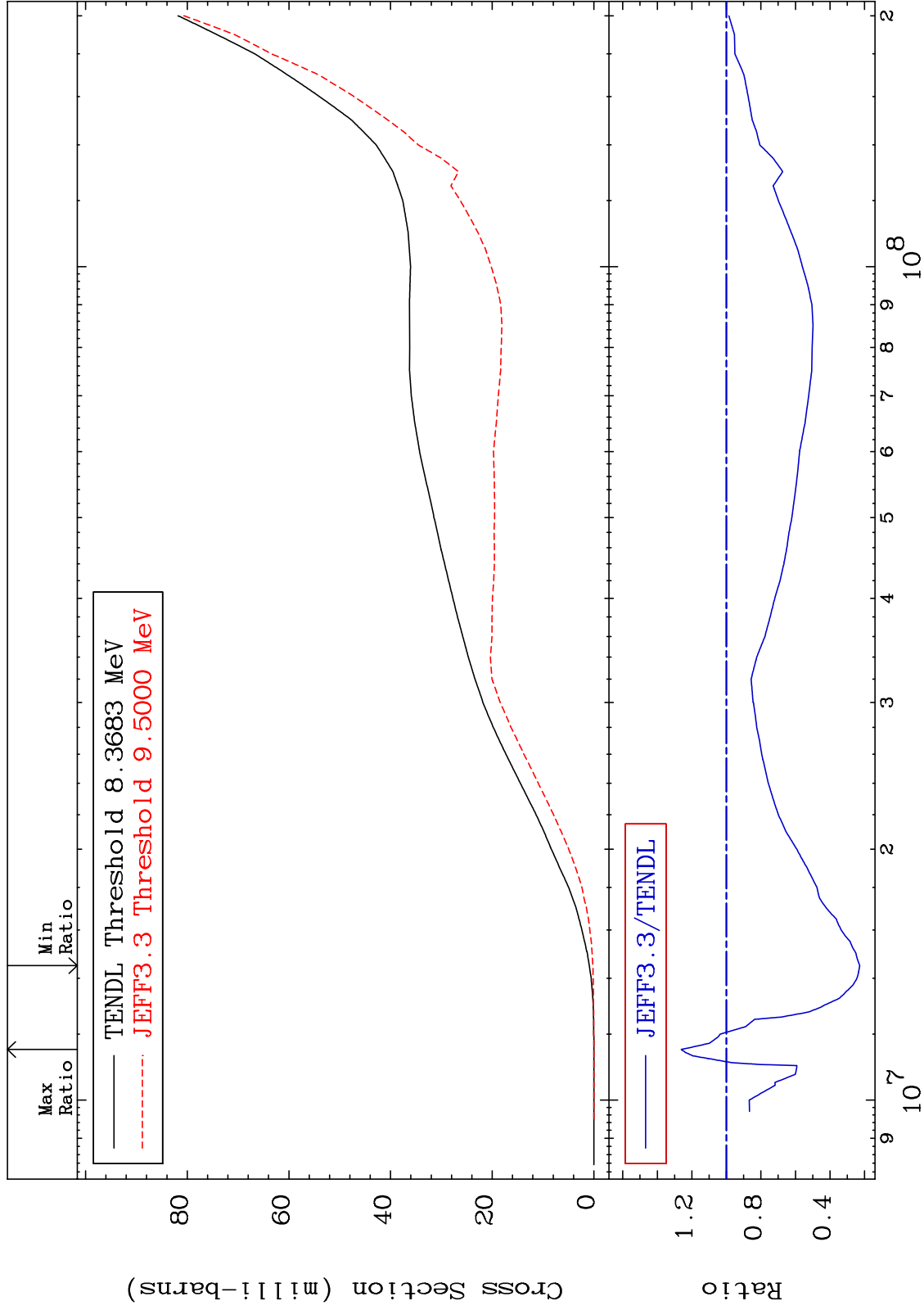
<sup>29</sup>Cu-63



MAT 2925

Tritium Production  
Cross Section

<sup>29</sup>Cu-63  
-77.24 To 26.12 %

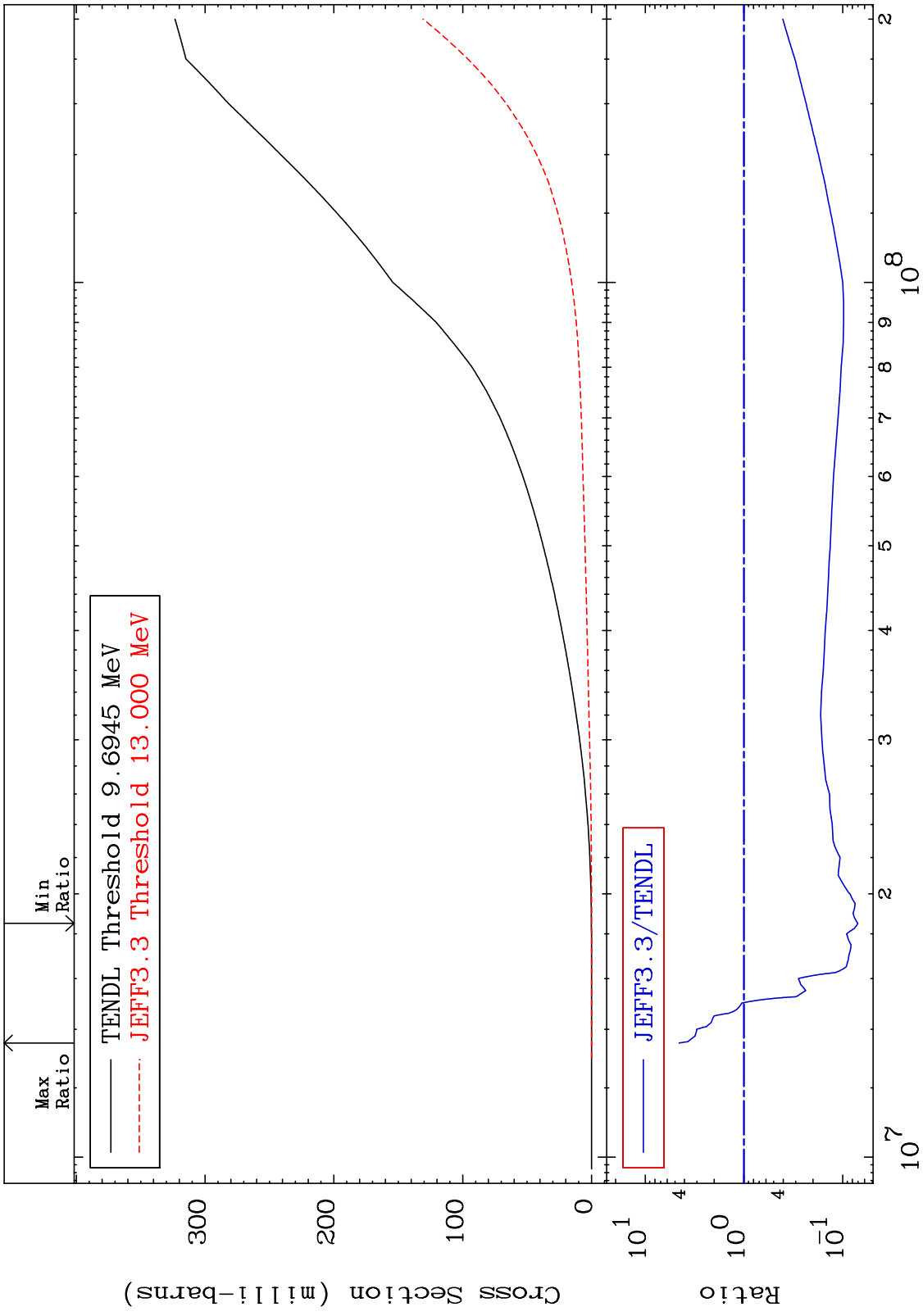


40

Incident Energy (eV)

<sup>29</sup>Cu-63

MAT 2925 He-3 Production Cross Section 29-Cu-63  
 -92.97 To 354.8 %

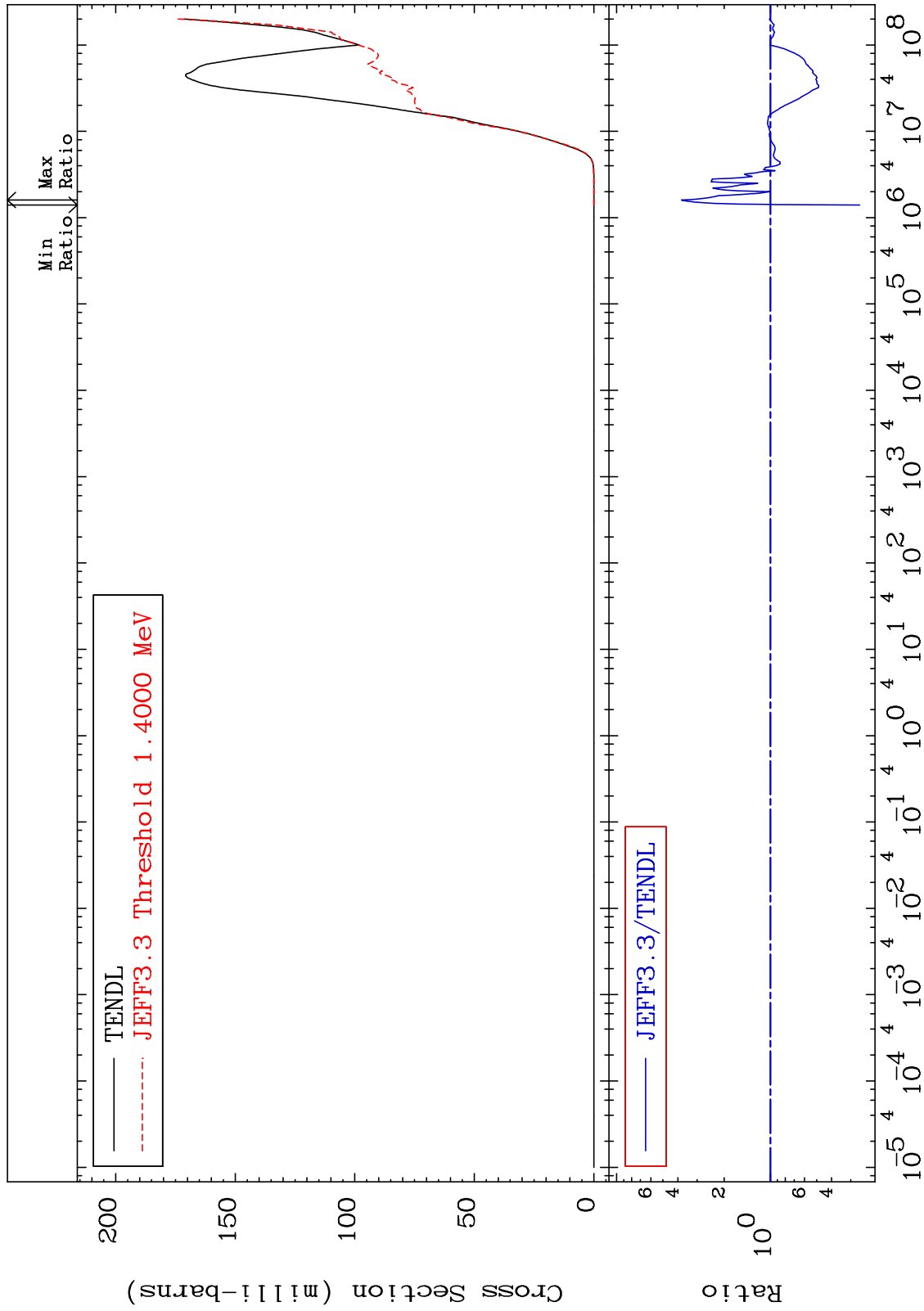


41 29-Cu-63

MAT 2925

He-4 Production  
Cross Section

29-Cu-63  
-73.75 To 280.1 %

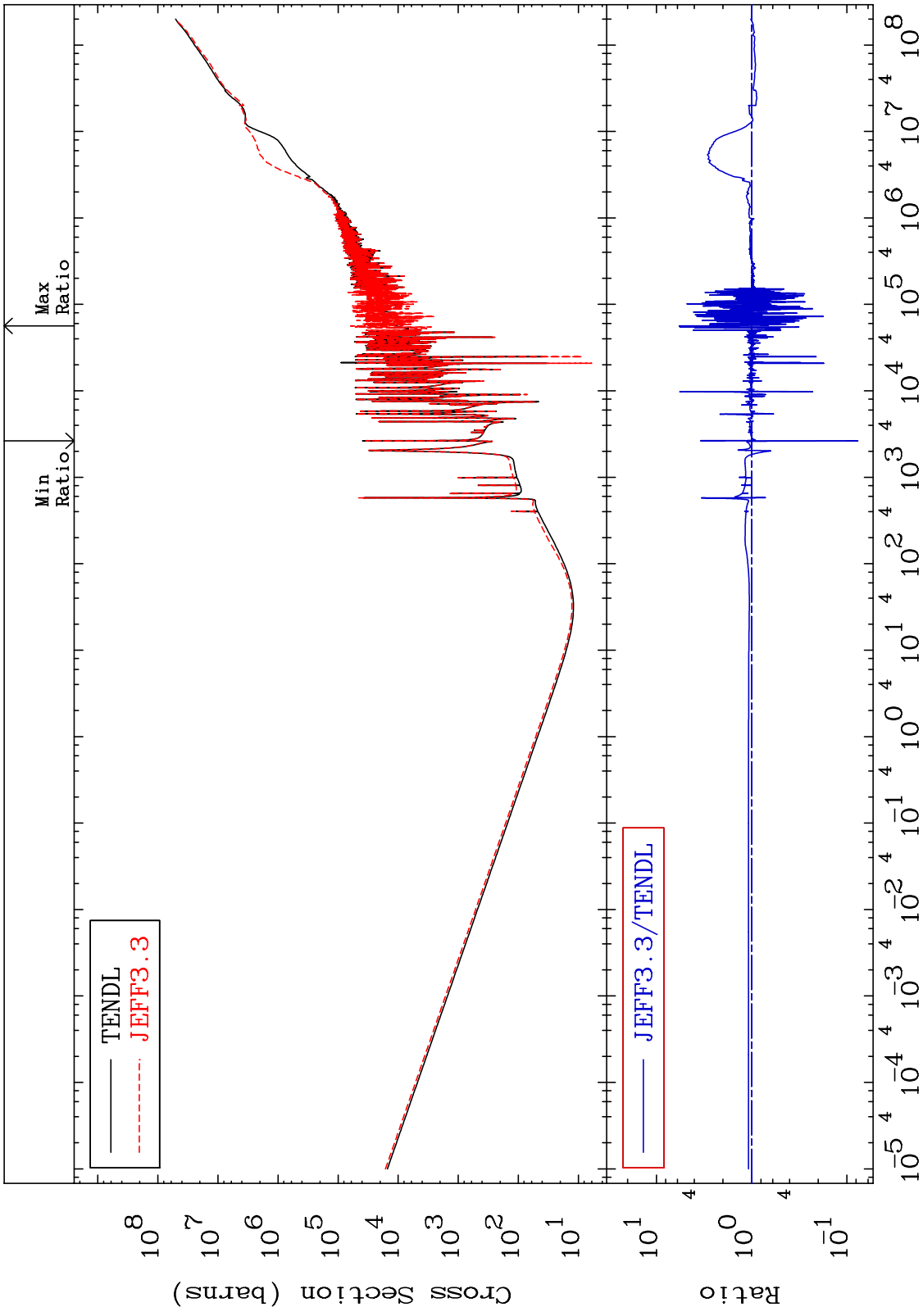


42

Incident Energy (eV)

29-Cu-63

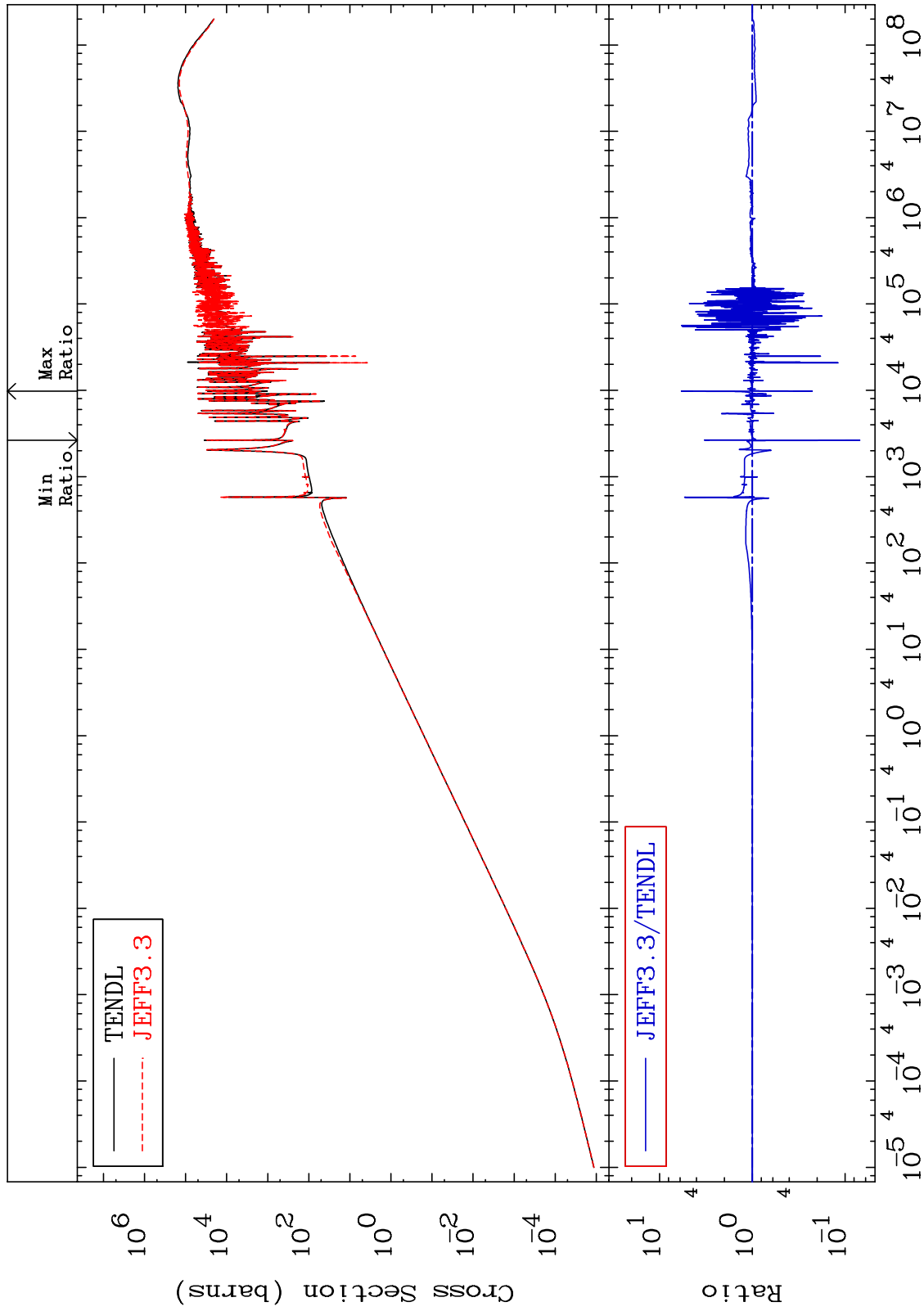
MAT 2925      Kerma total (eV-barns)      29-Cu-63  
 Cross Section      -92.33 To 478.2 %



MAT 2925

Kerma elastic  
Cross Section

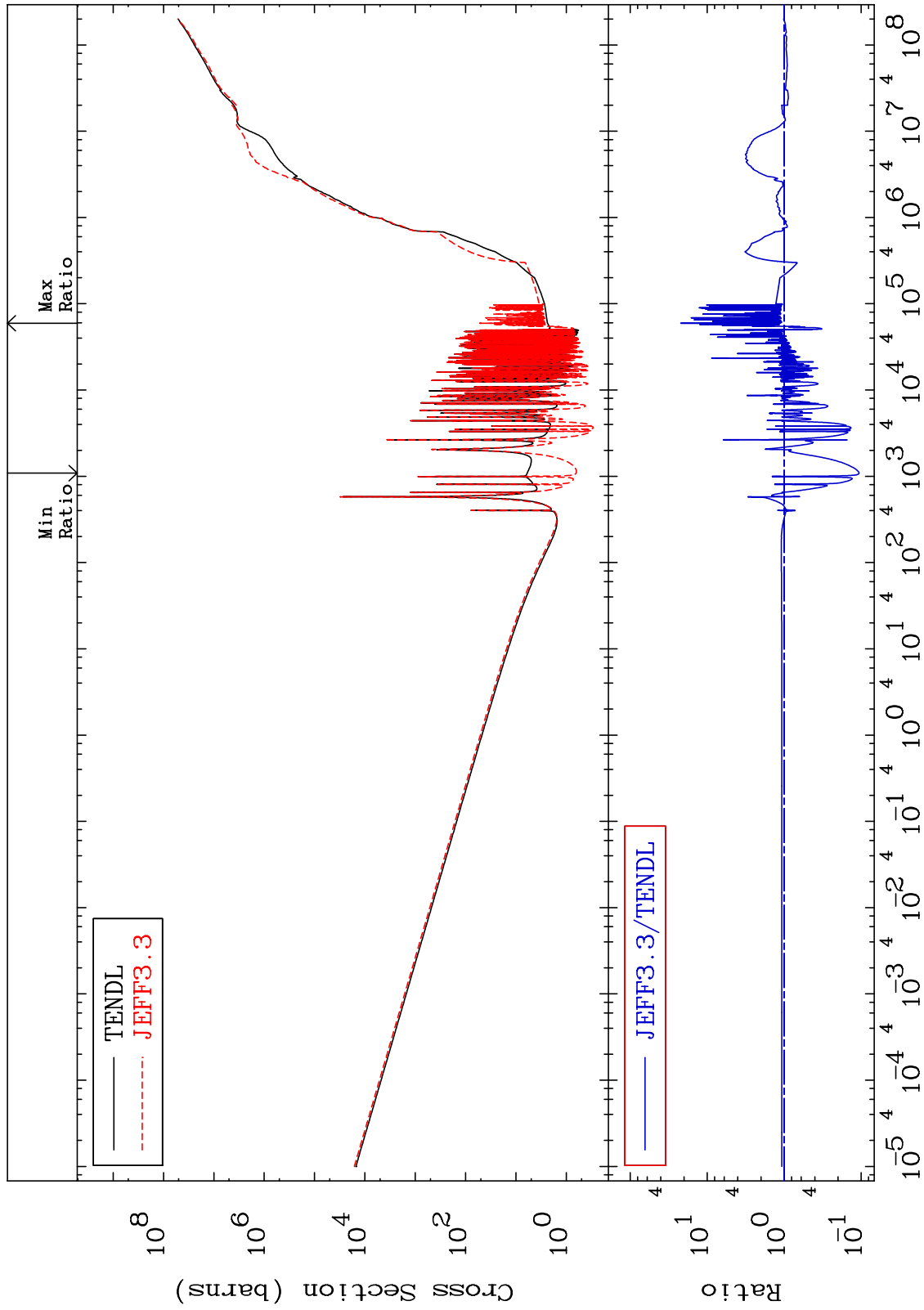
29-Cu-63  
-93.06 To 483.5 %



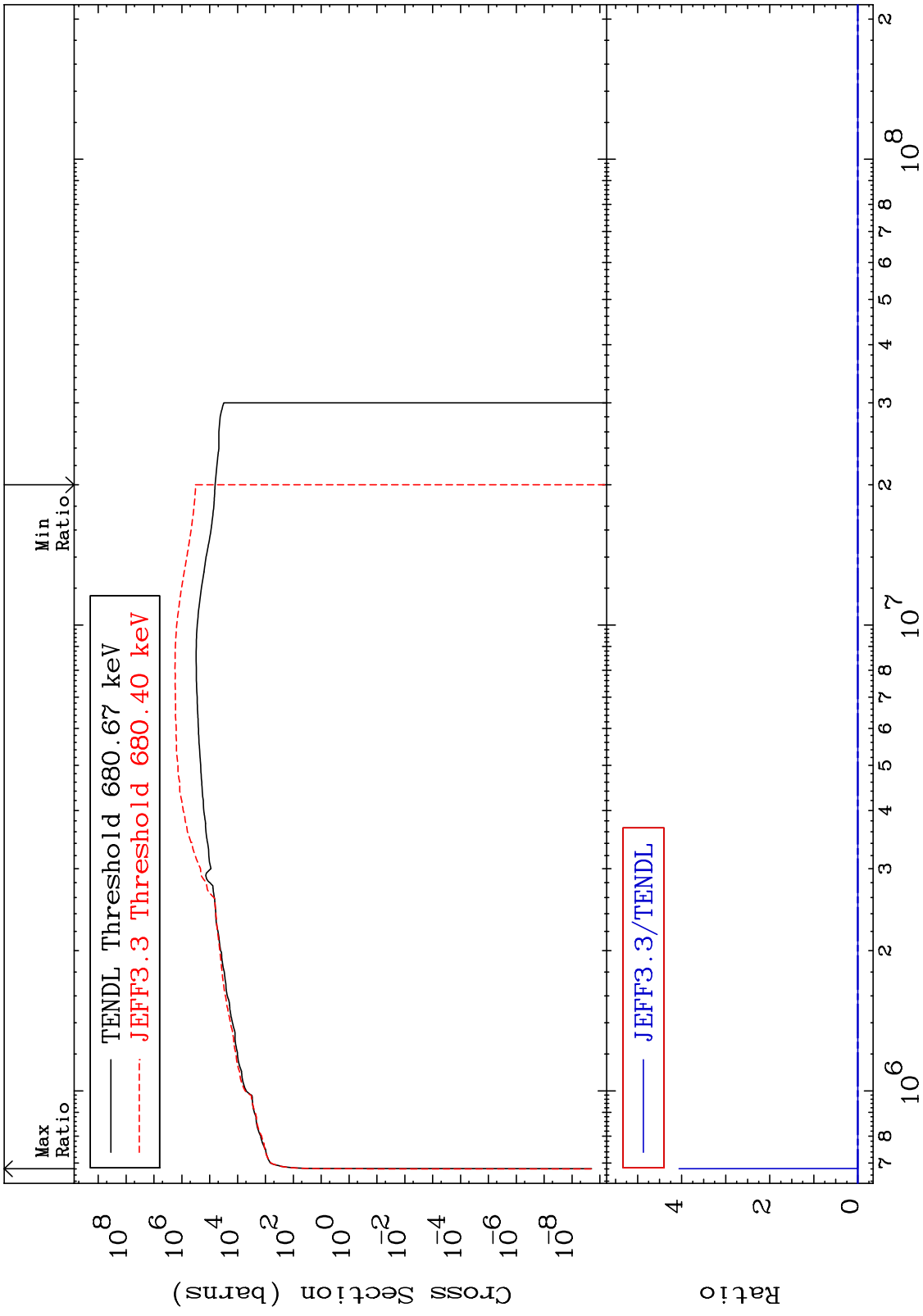
MAT 2925

Kerma non-elastic (all but mt2)  
Cross Section

29-Cu-63  
-89.33 To 2111. %



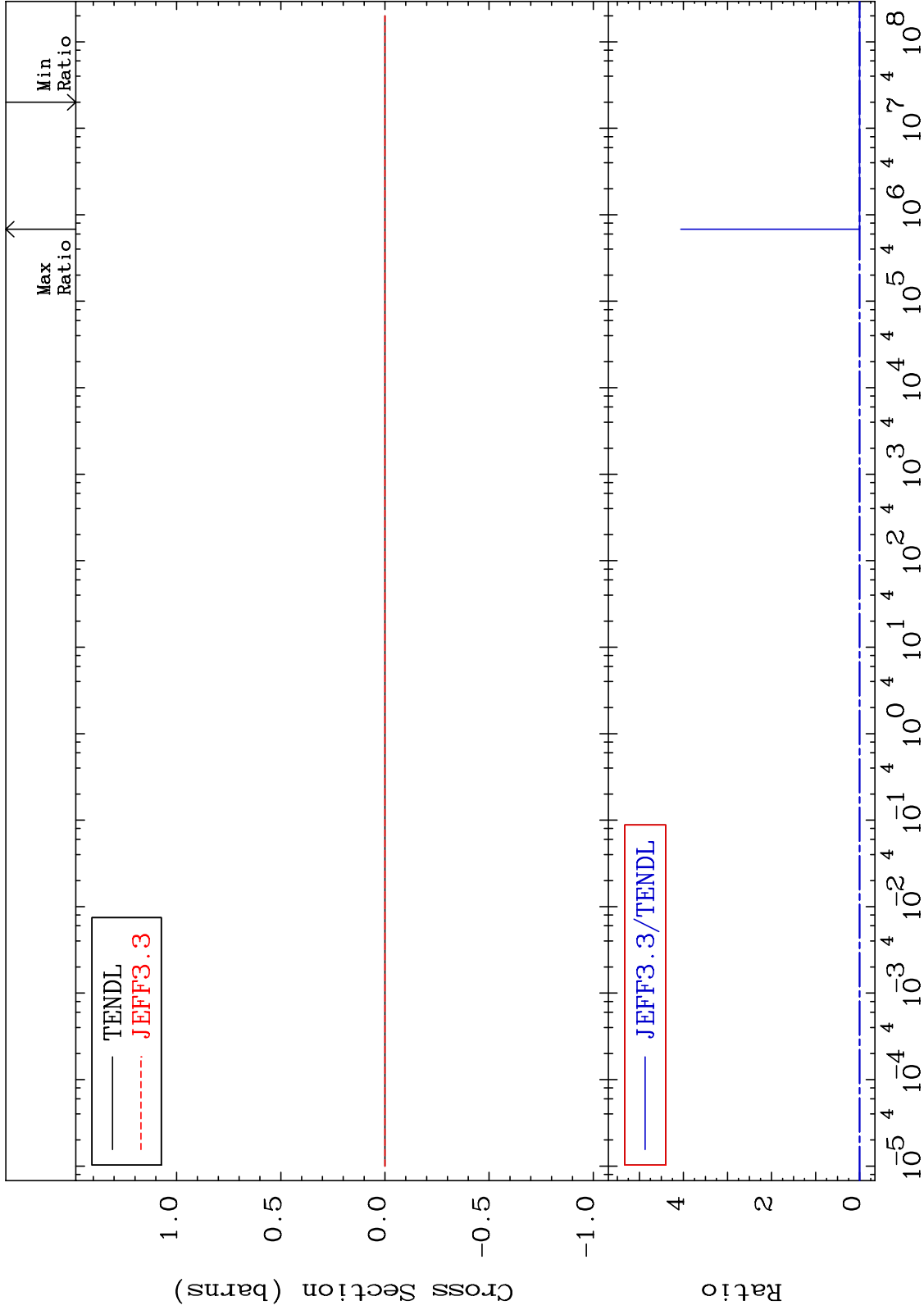
MAT 2925 Kerma inelastic (mt51-91) 29-Cu-63  
 -100.0 To 9999. %



MAT 2925

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

29-Cu-63  
-100.0 To 9999. %



47

Incident Energy (eV)

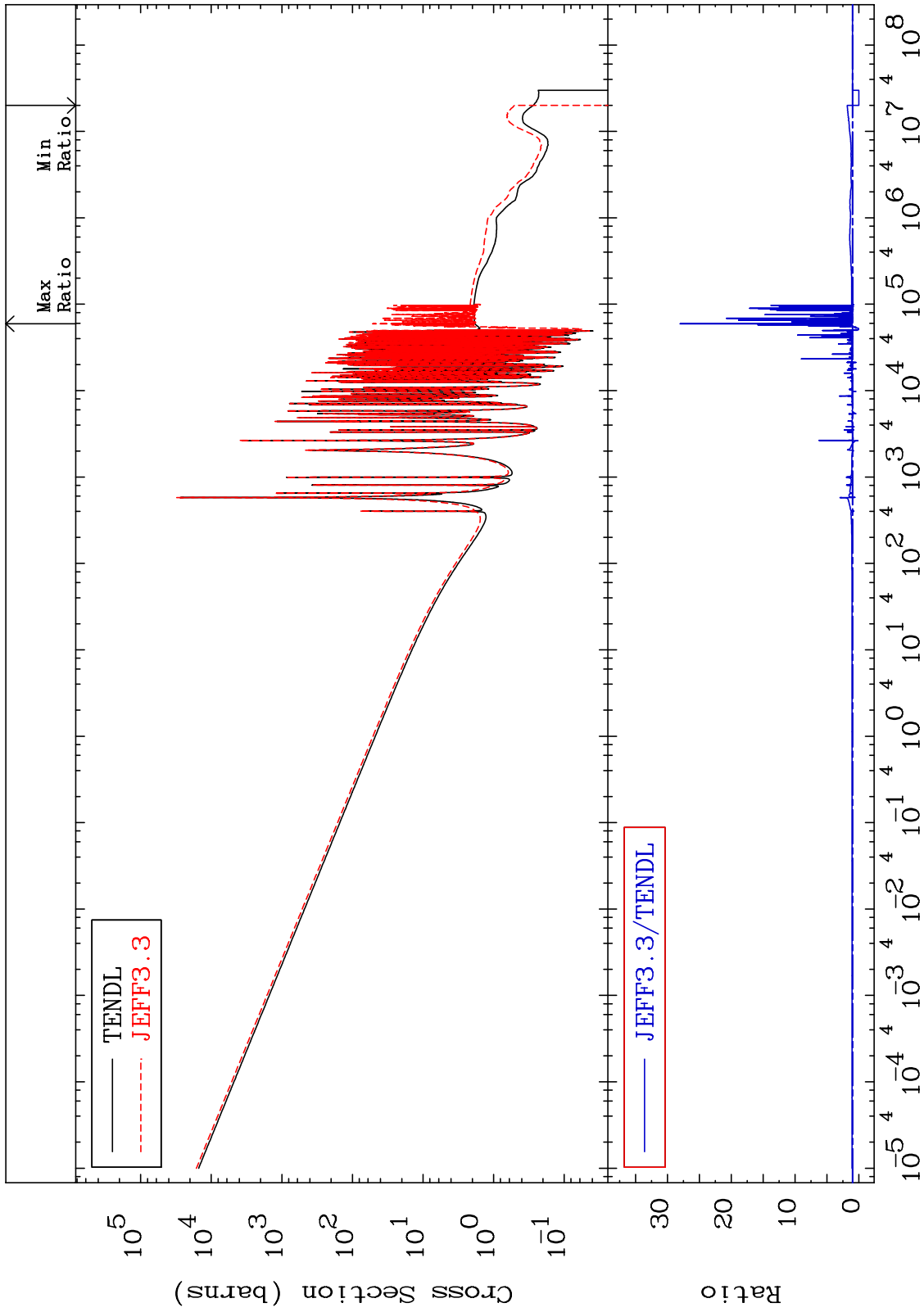
29-Cu-63



MAT 2925

Kerma capture (mt102)  
Cross Section

29-Cu-63  
-100.0 To 2699. %



48

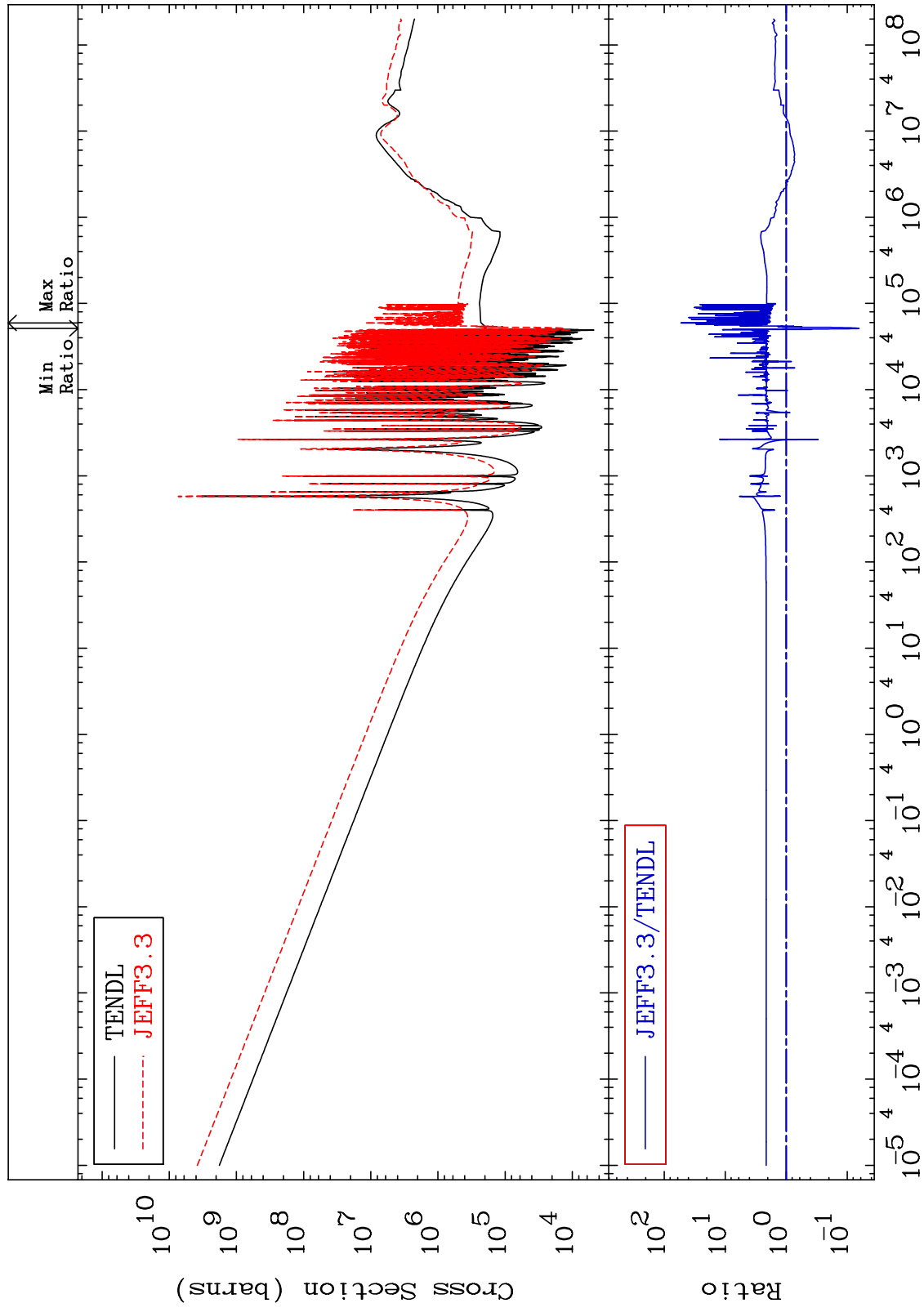
Incident Energy (eV)

29-Cu-63

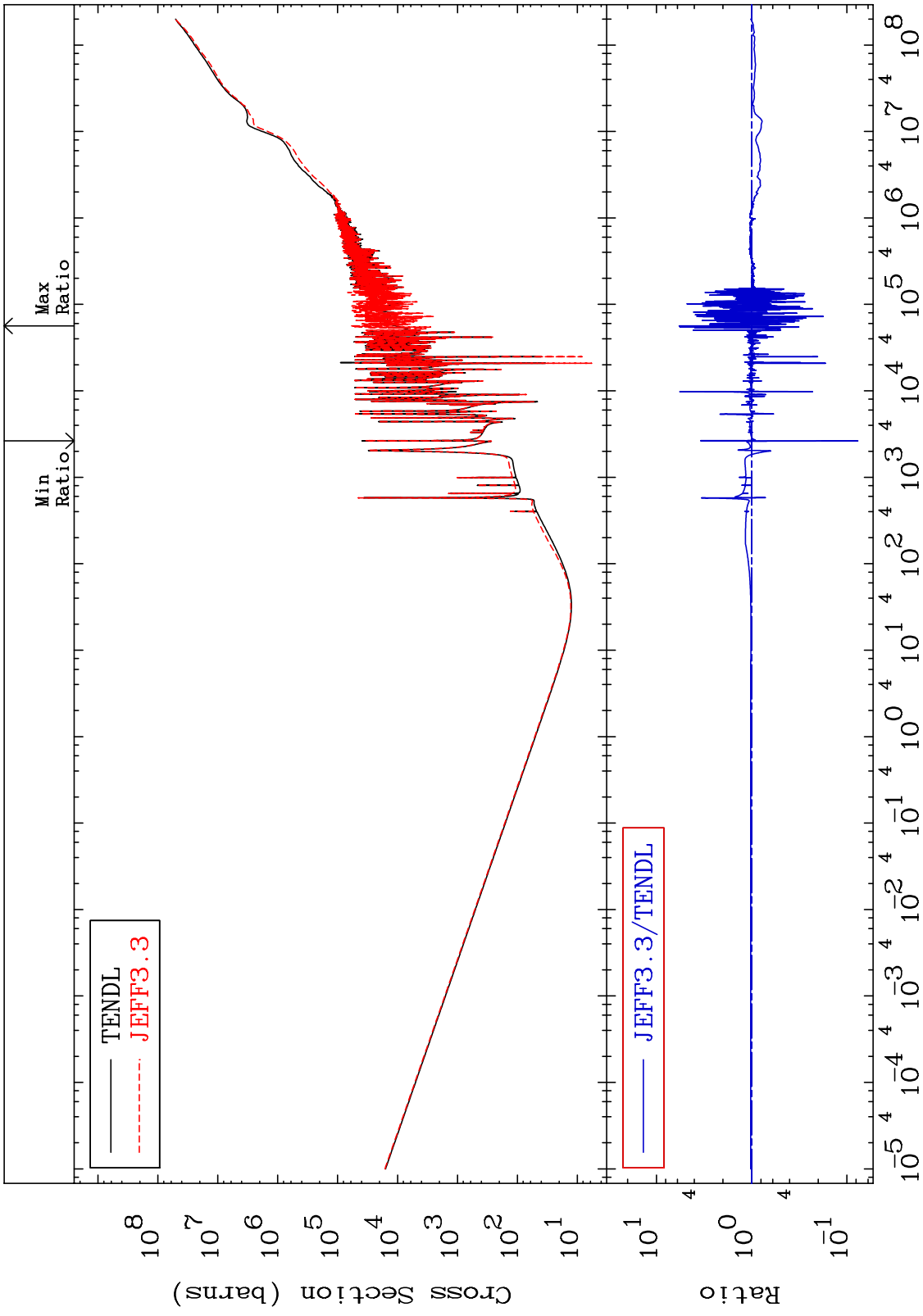
MAT 2925

Total photon (eV-barns)  
Cross Section

29-Cu-63  
-93.60 To 5219. %



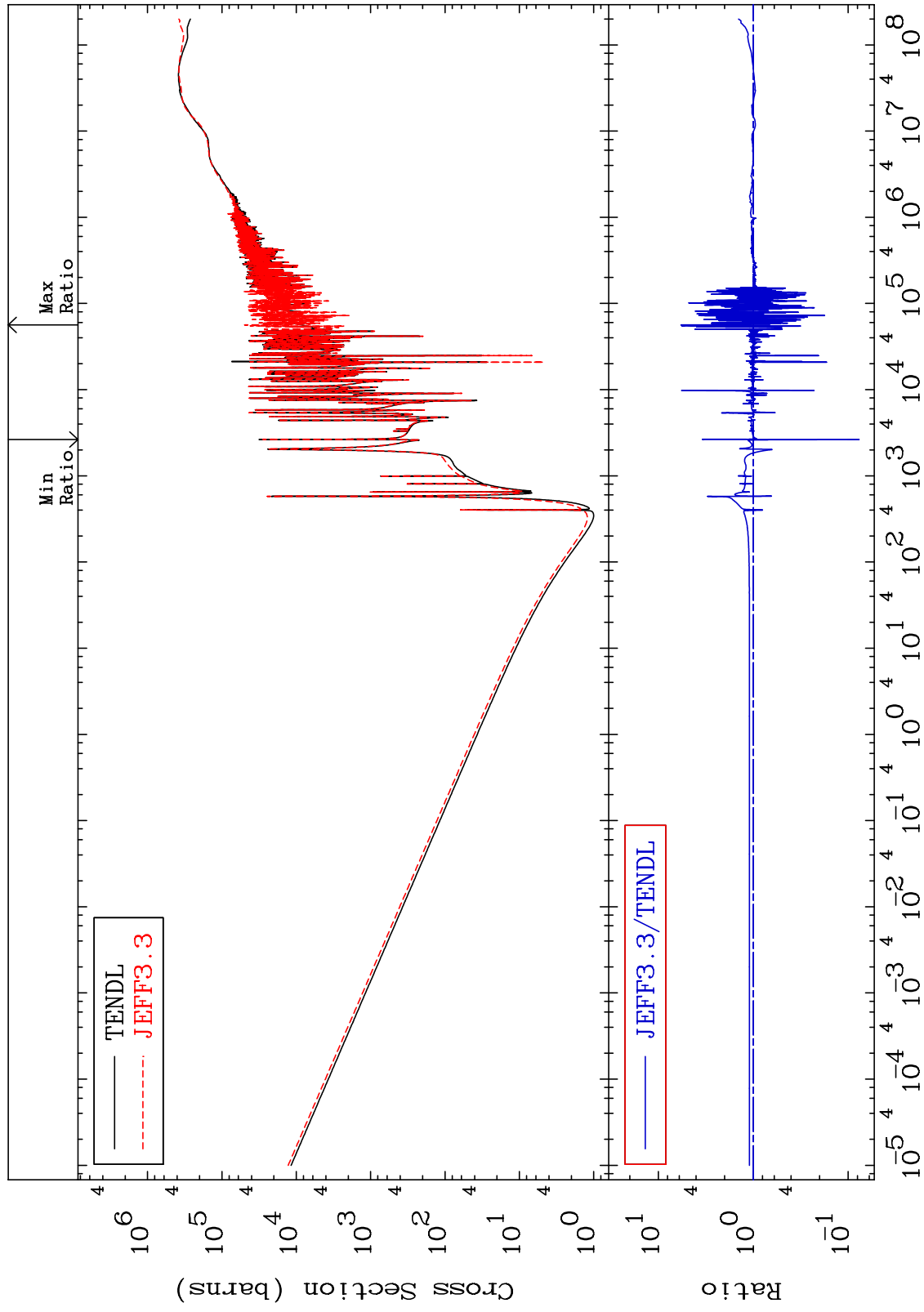
MAT 2925      Total kinematic kerma (high limit)      29-Cu-63  
 Cross Section      -92.33 To 478.2 %



MAT 2925

Dpa total (eV-barns)  
Cross Section

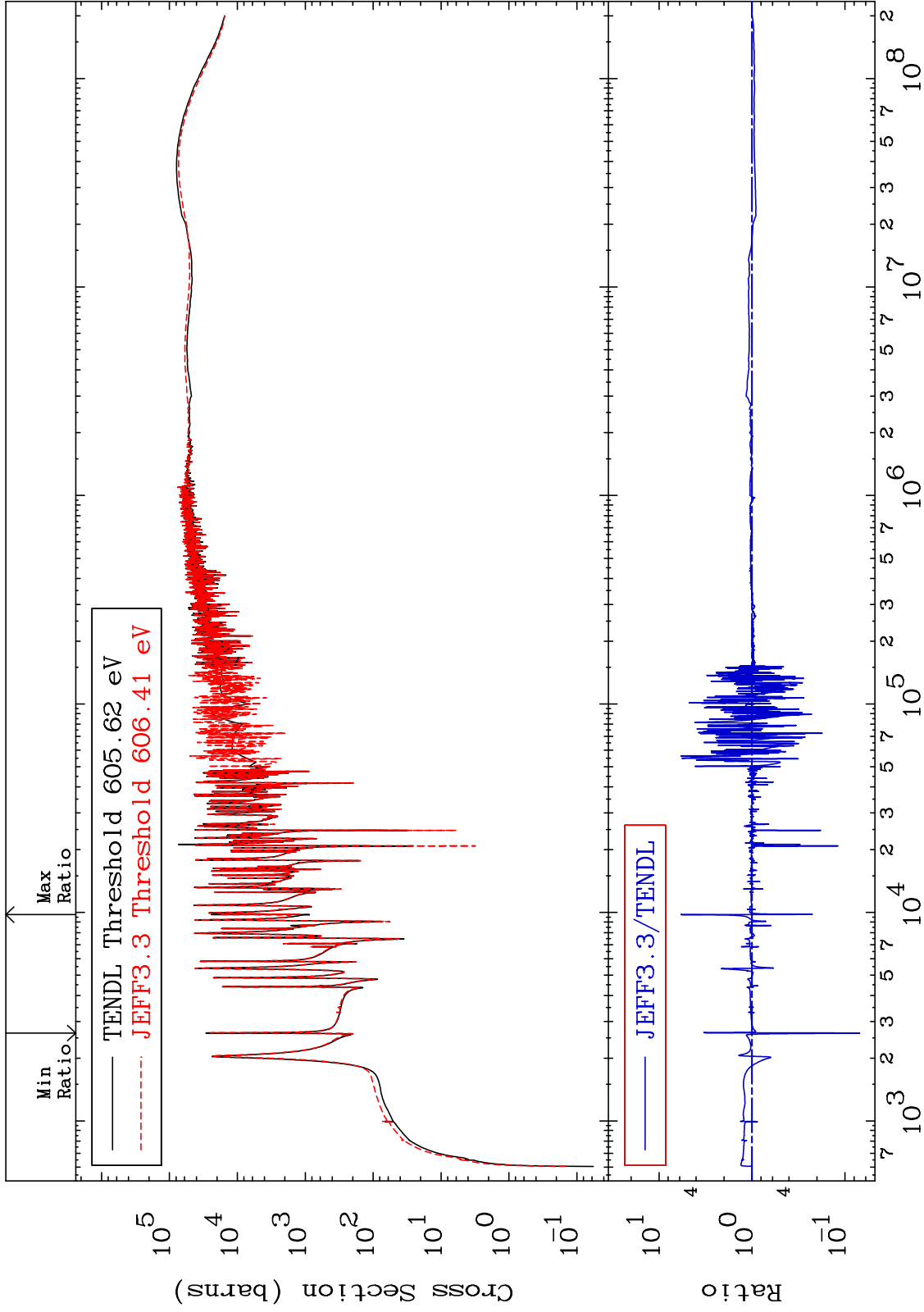
29-Cu-63  
-92.32 To 478.5 %



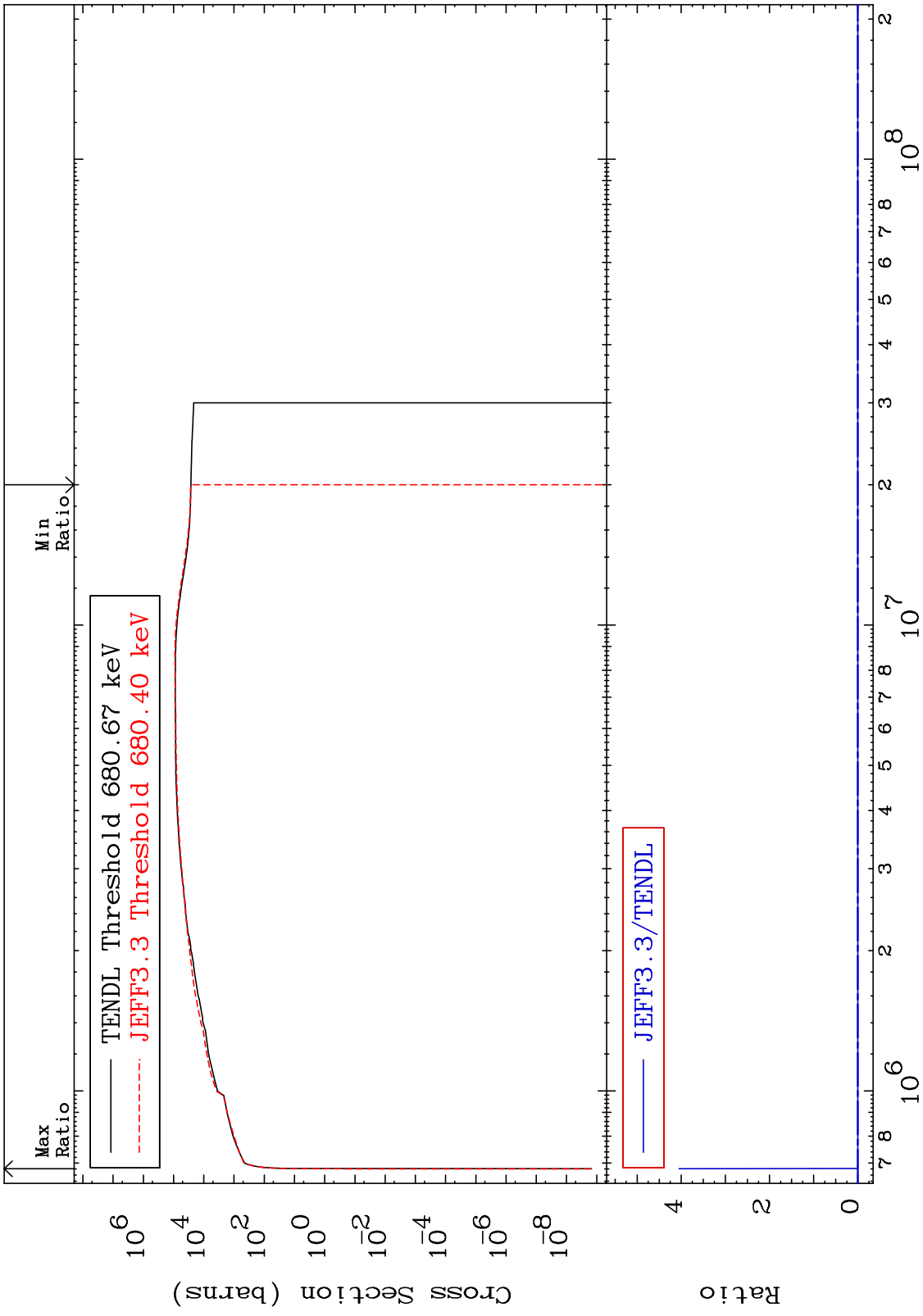
MAT 2925

Dpa elastic (mt2)  
Cross Section

29-Cu-63  
-93.04 To 483.4 %

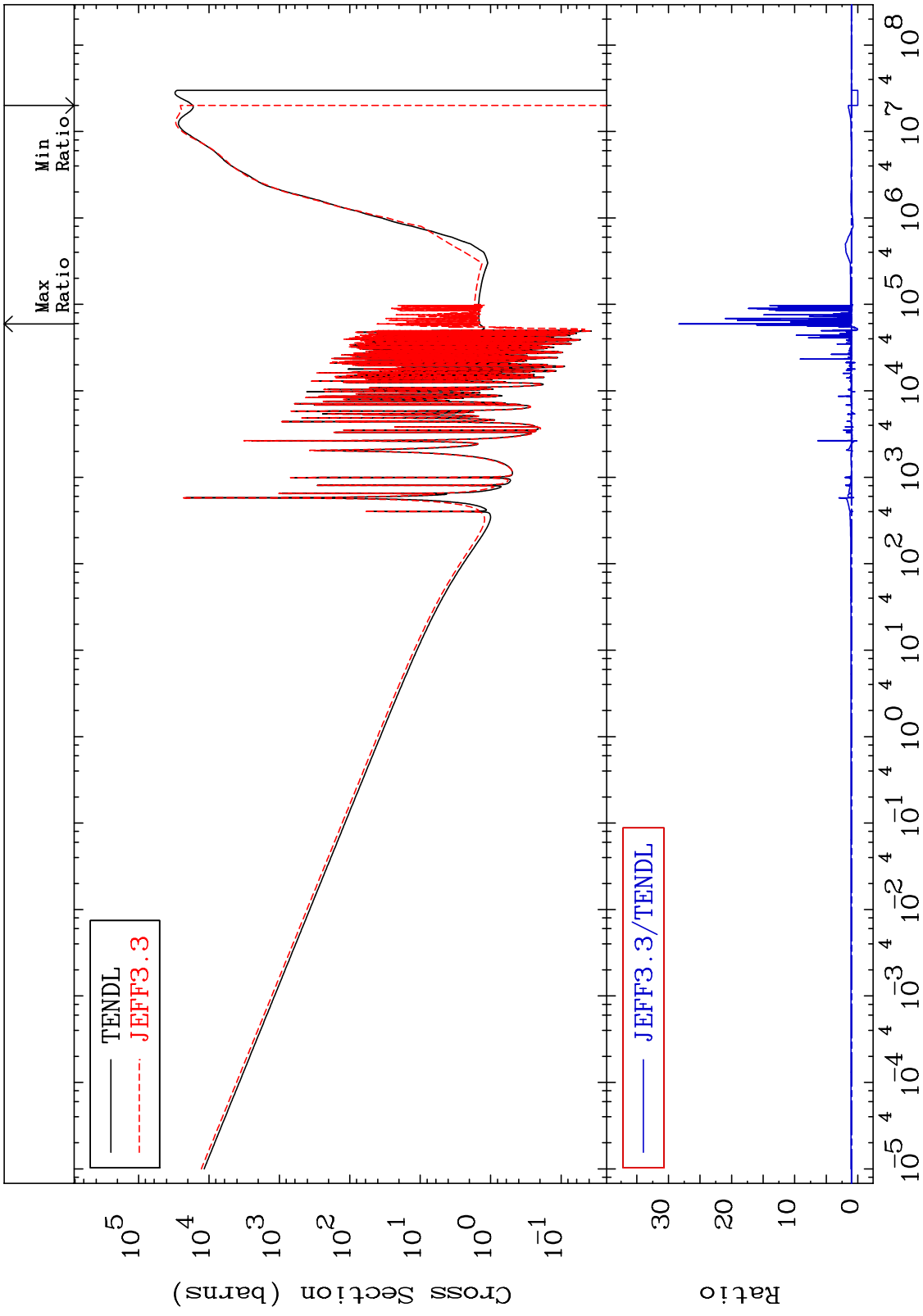


MAT 2925      Dpa inelastic (mt51-91)      29-Cu-63  
 Cross Section      -100.0 To 9999. %



53      Incident Energy (eV)      29-Cu-63

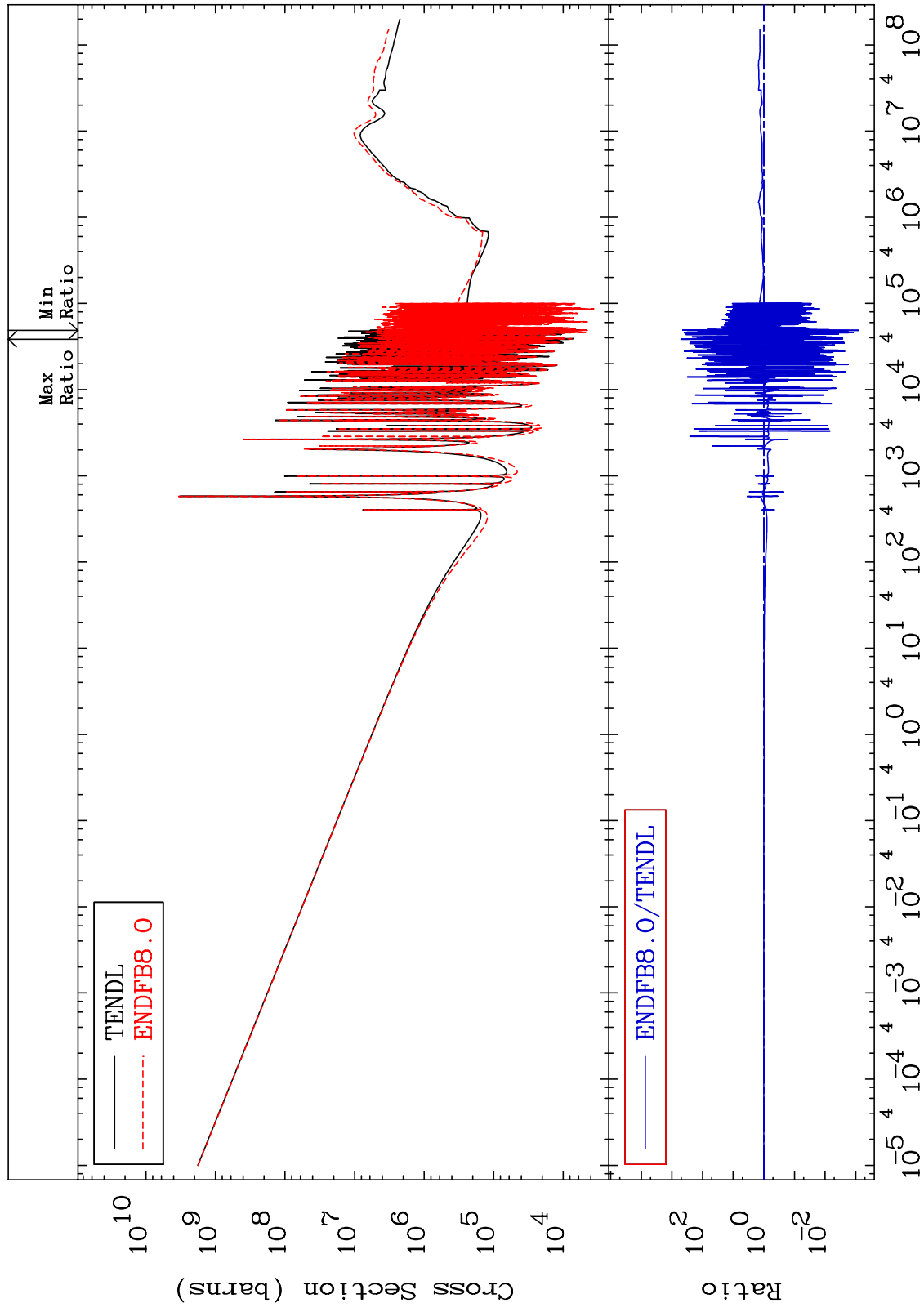
MAT 2925 Dpa disappearance (mt102 -120) 29-Cu-63  
 Cross Section -100.0 To 2732. %



MAT 2925

Total photon (eV-barns)  
Cross Section

29-Cu-63  
-99.92 To 9999. %

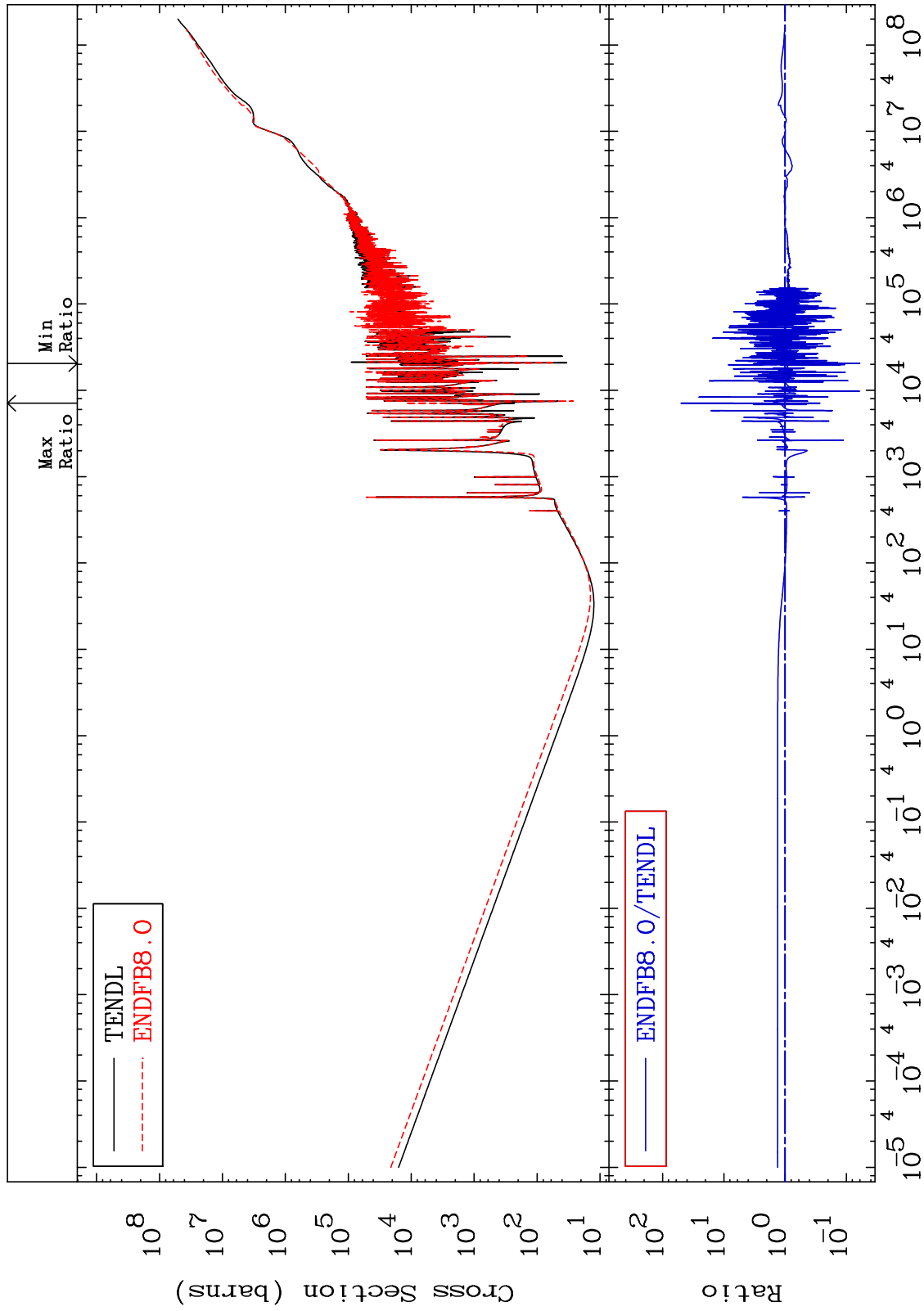




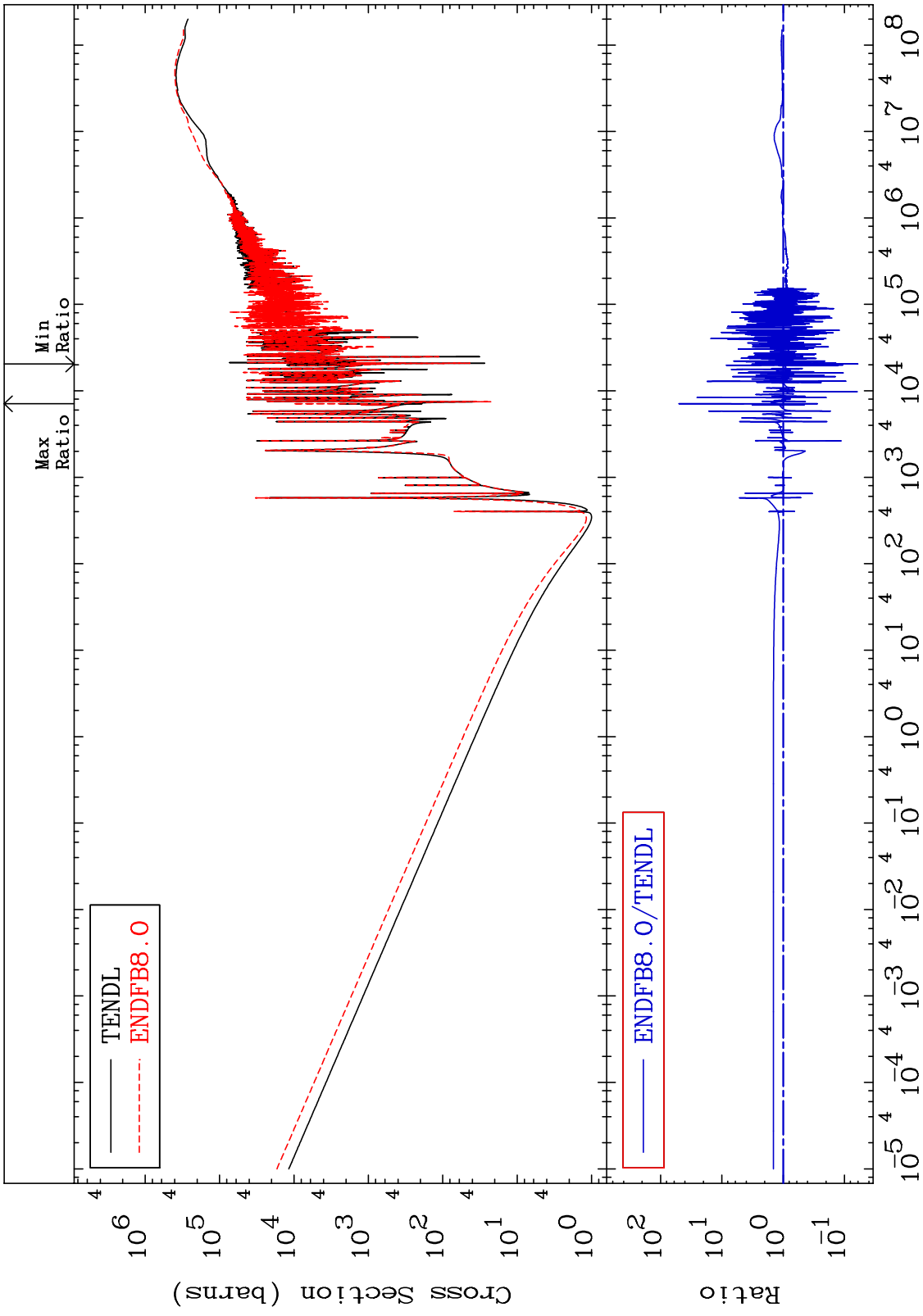
MAT 2925

Total kinematic kerma (high limit)  
Cross Section

29-Cu-63  
-93.94 To 4866. %



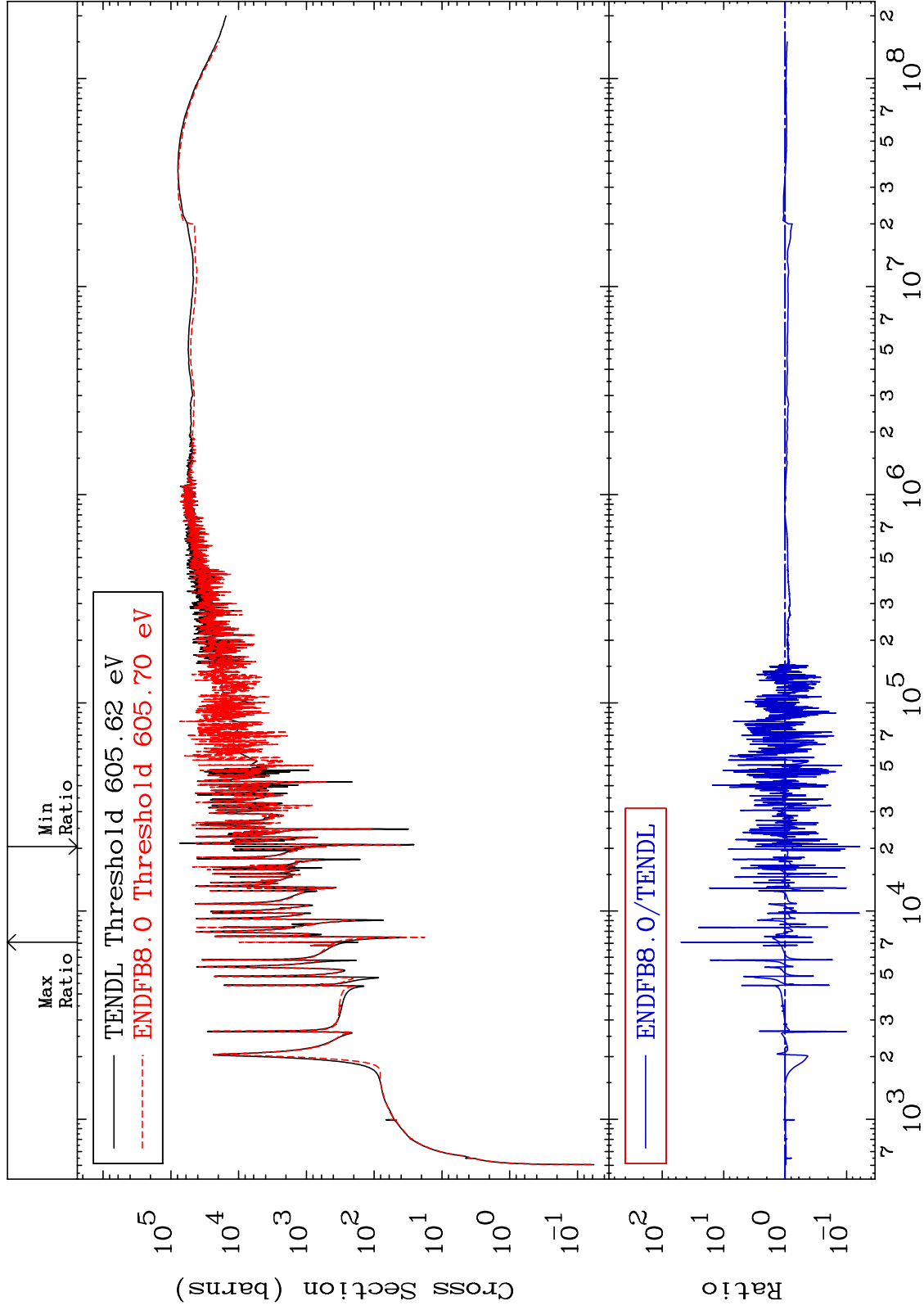
MAT 2925      Dpa total (eV-barns)      29-Cu-63  
 Cross Section      -93.94 To 4890. %



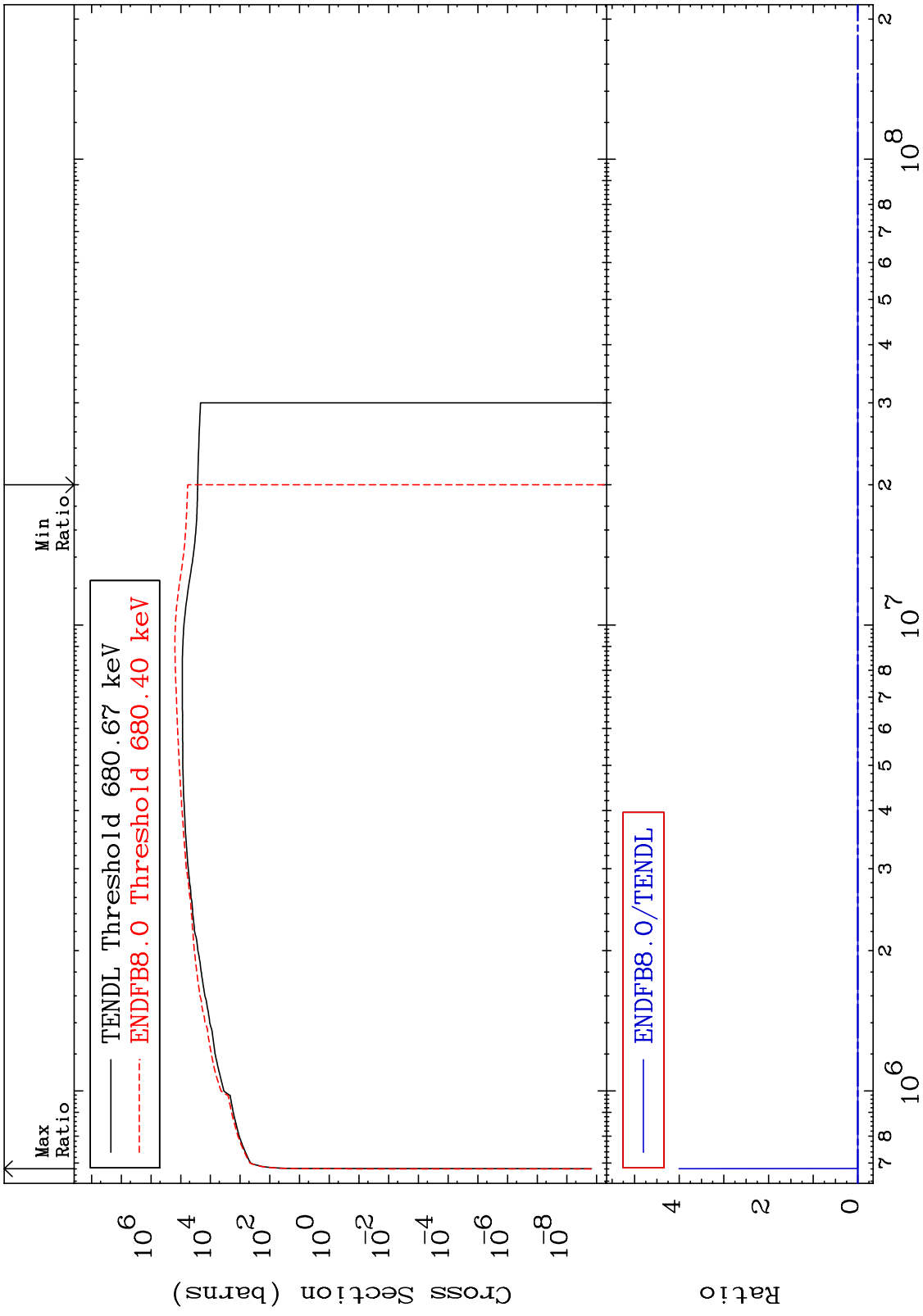
MAT 2925

Dpa elastic (mt2)  
Cross Section

29-Cu-63  
-93.88 To 4807. %



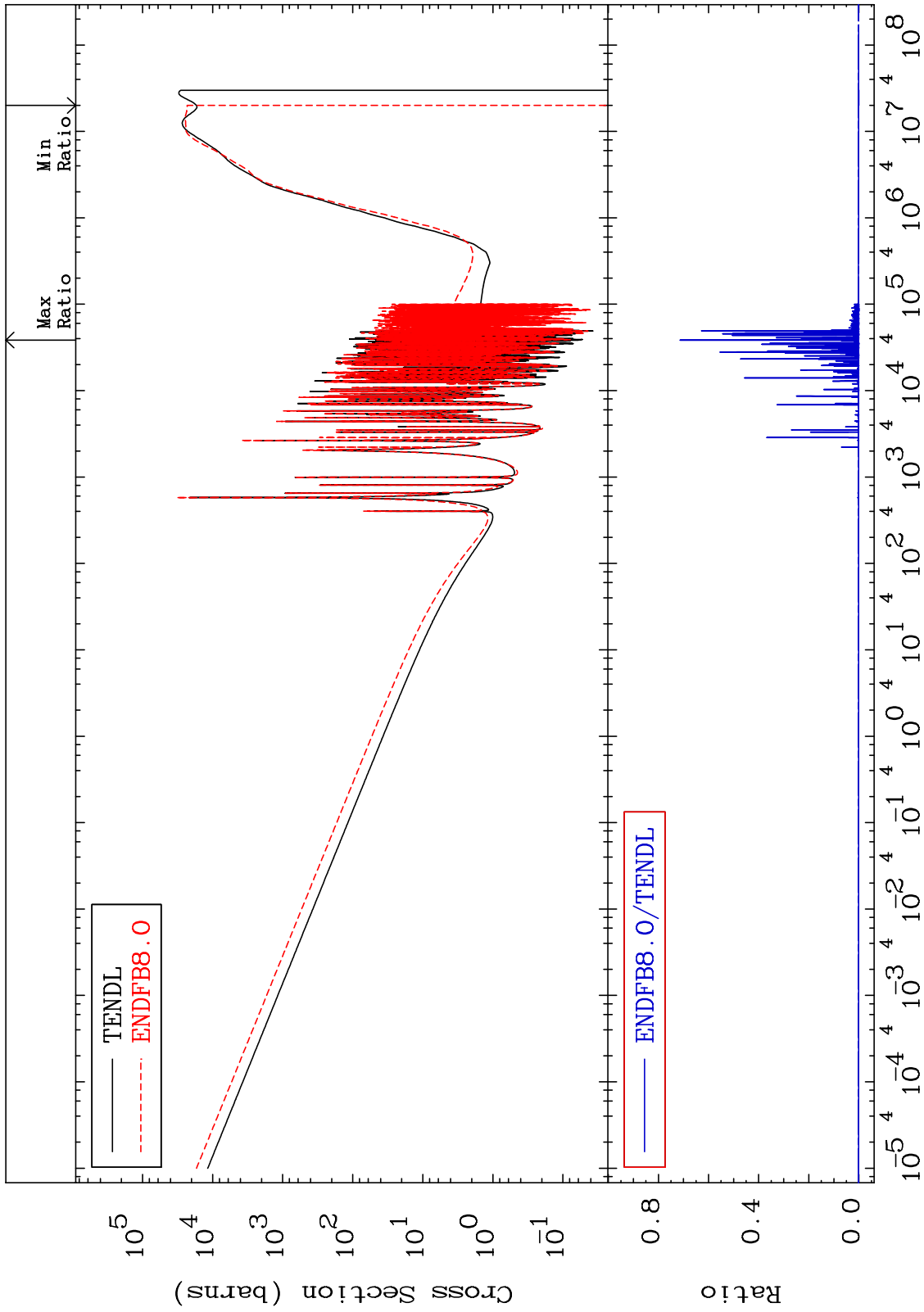
MAT 2925      Dpa inelastic (mt51-91)      29-Cu-63  
 Cross Section      -100.0 To 9999. %



MAT 2925

Dpa disappearance (mt102 -120)  
Cross Section

29-Cu-63  
-100.0 To 9999. %



60

Incident Energy (eV)

29-Cu-63