

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

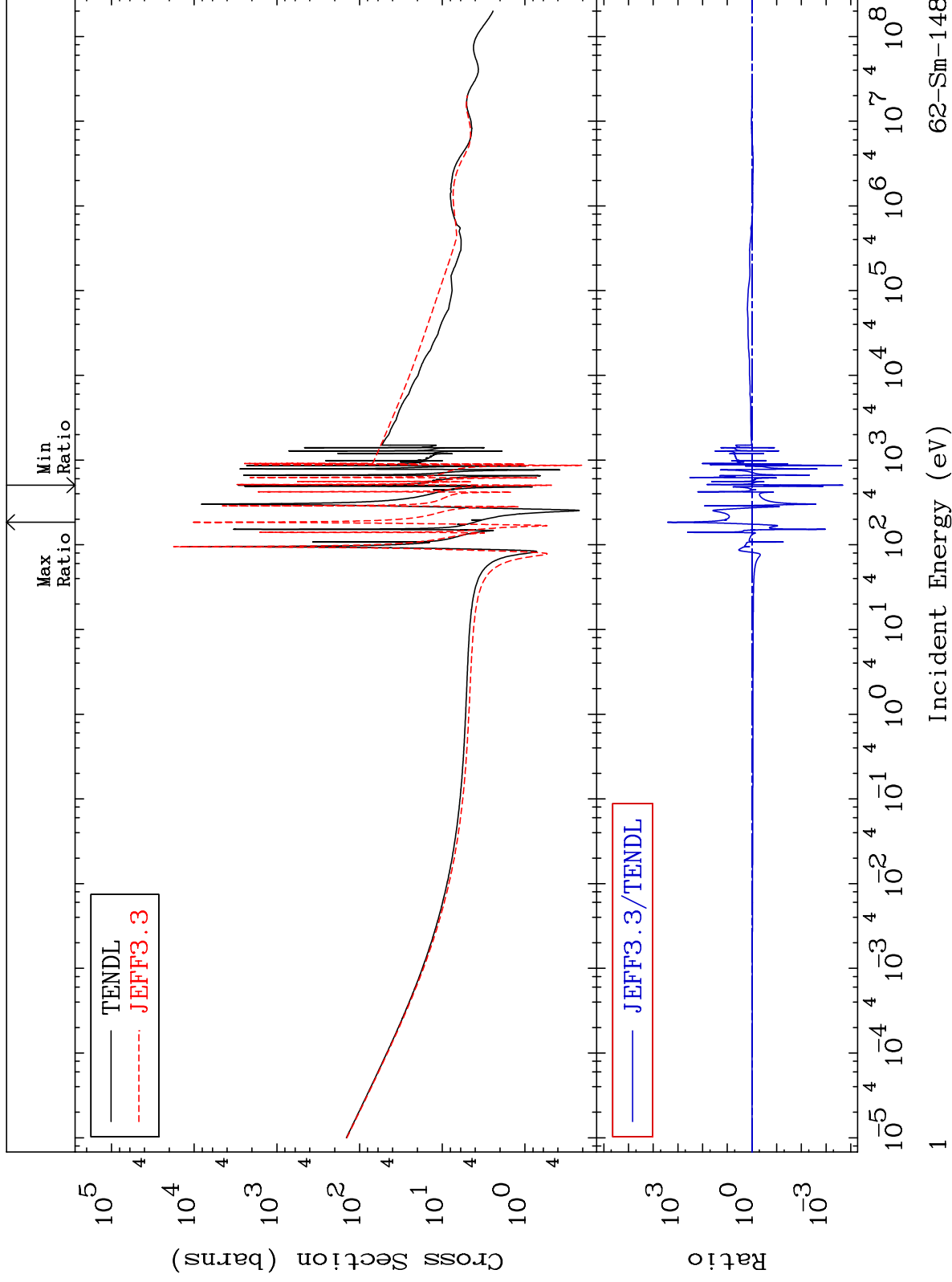
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6237

Total  
Cross Section

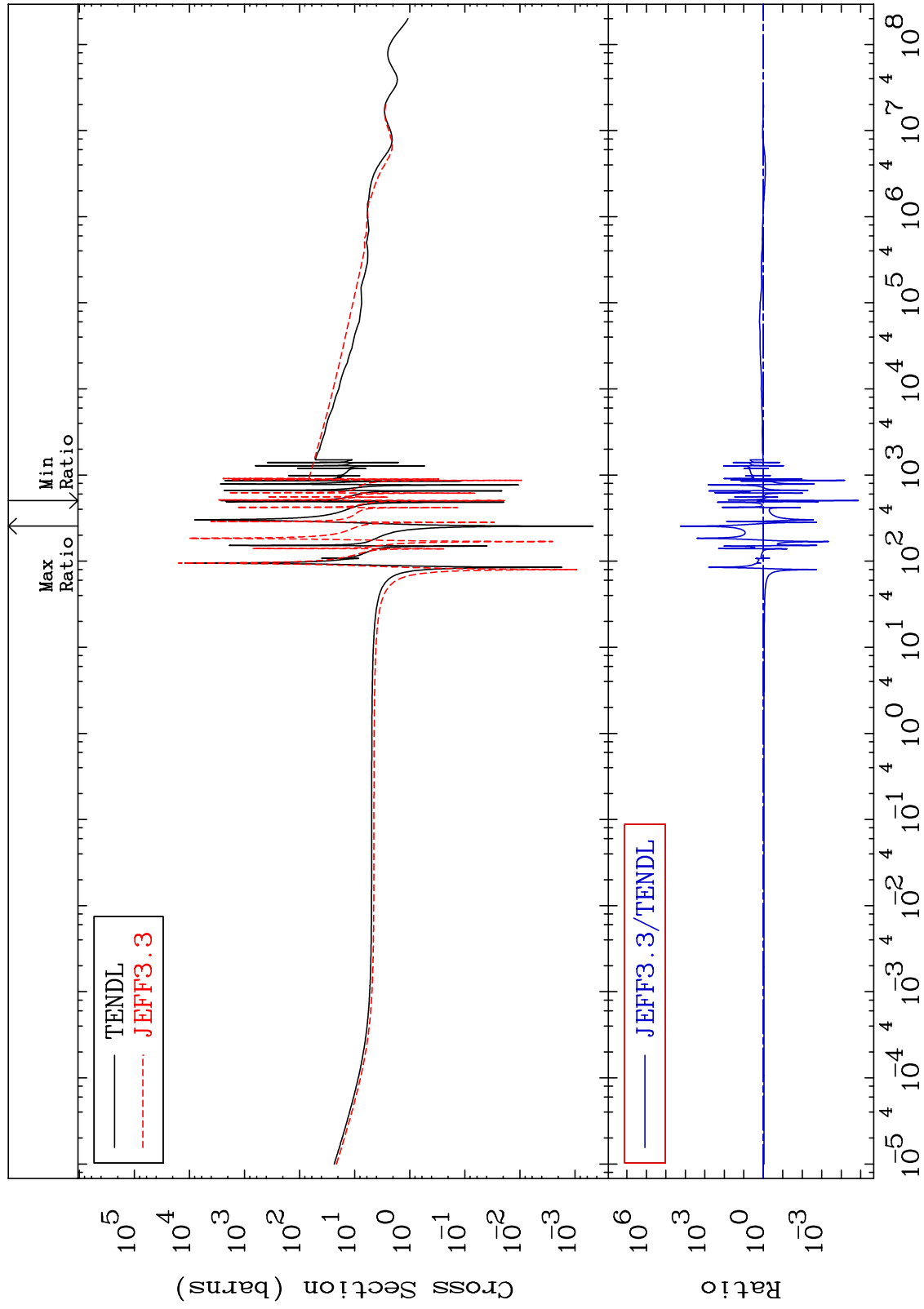
62-Sm-148  
-99.98 To 9999. %



MAT 6237

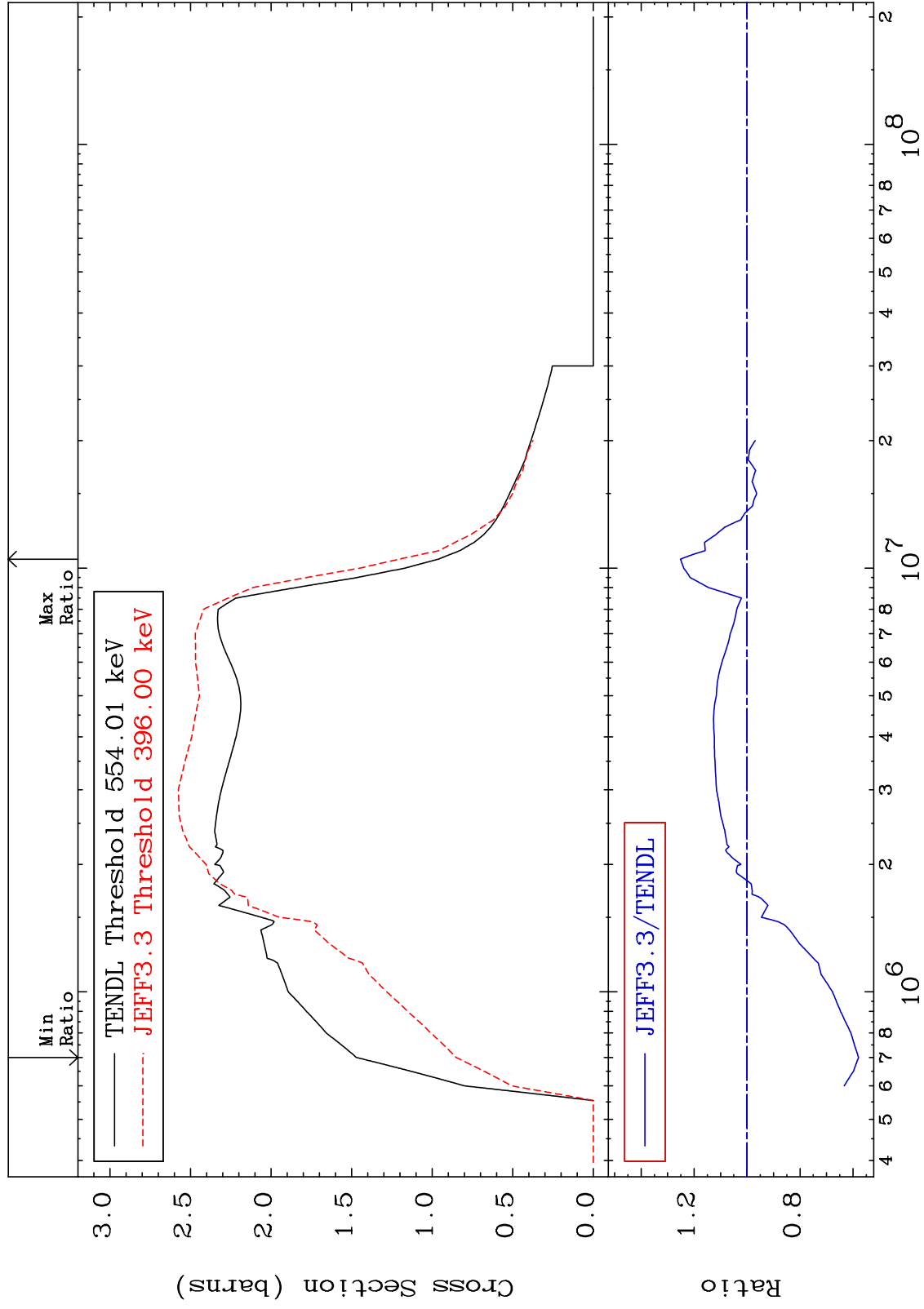
Elastic  
Cross Section

62-Sm-148  
-100.0 To 9999. %



MAT 6237

Inelastic Cross Section  
62-Sm-148  
-42.09 To 25.15 %



3 4 5 6 7 8 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 62-Sm-148

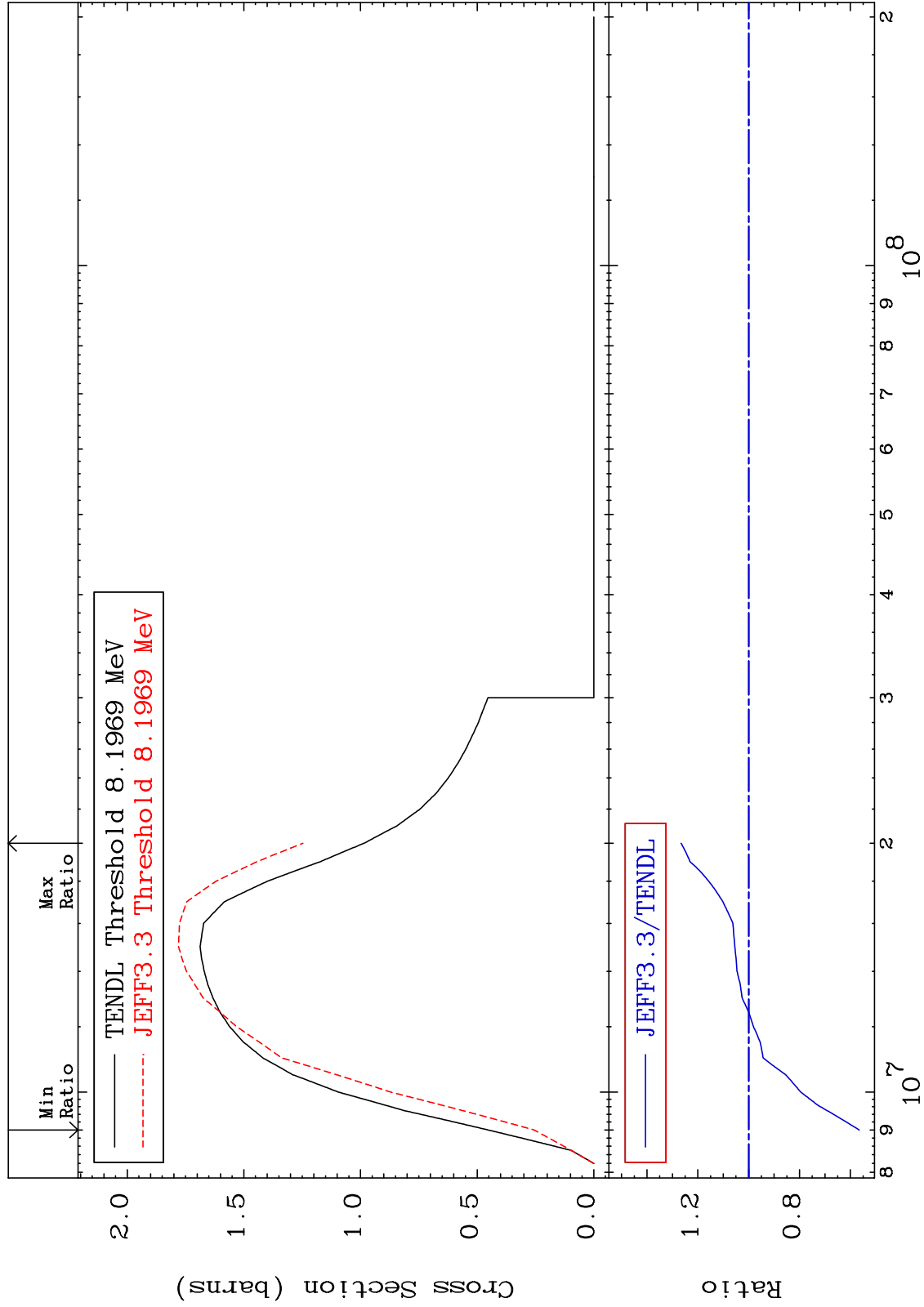
MAT 6237

(n, 2n)

62-Sm-148

Cross Section

-43.50 To 26.61 %



62-Sm-148

Incident Energy (eV)

4

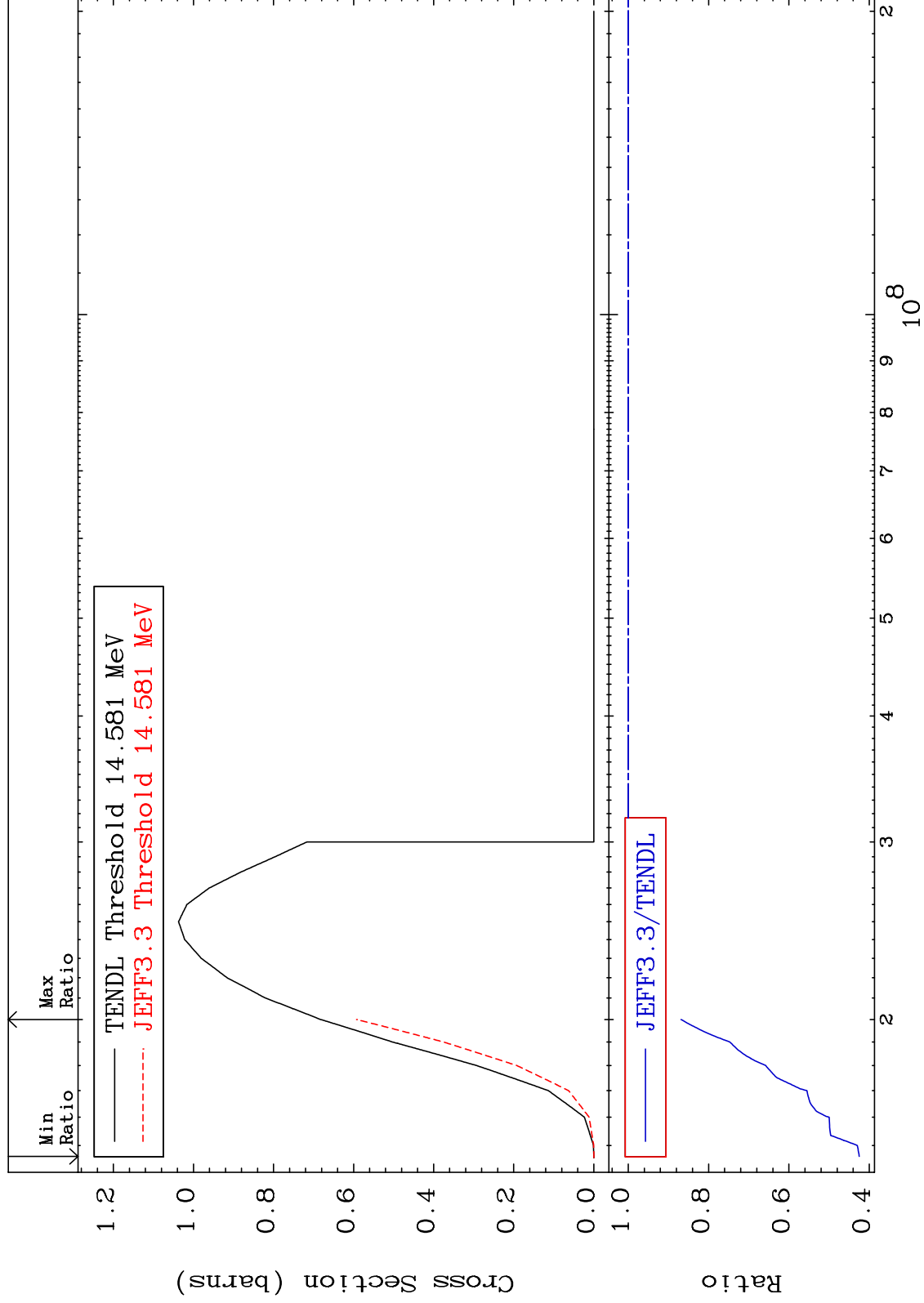
MAT 6237

(n, 3n)

62-Sm-148

Cross Section

-57.51 To -13.15%



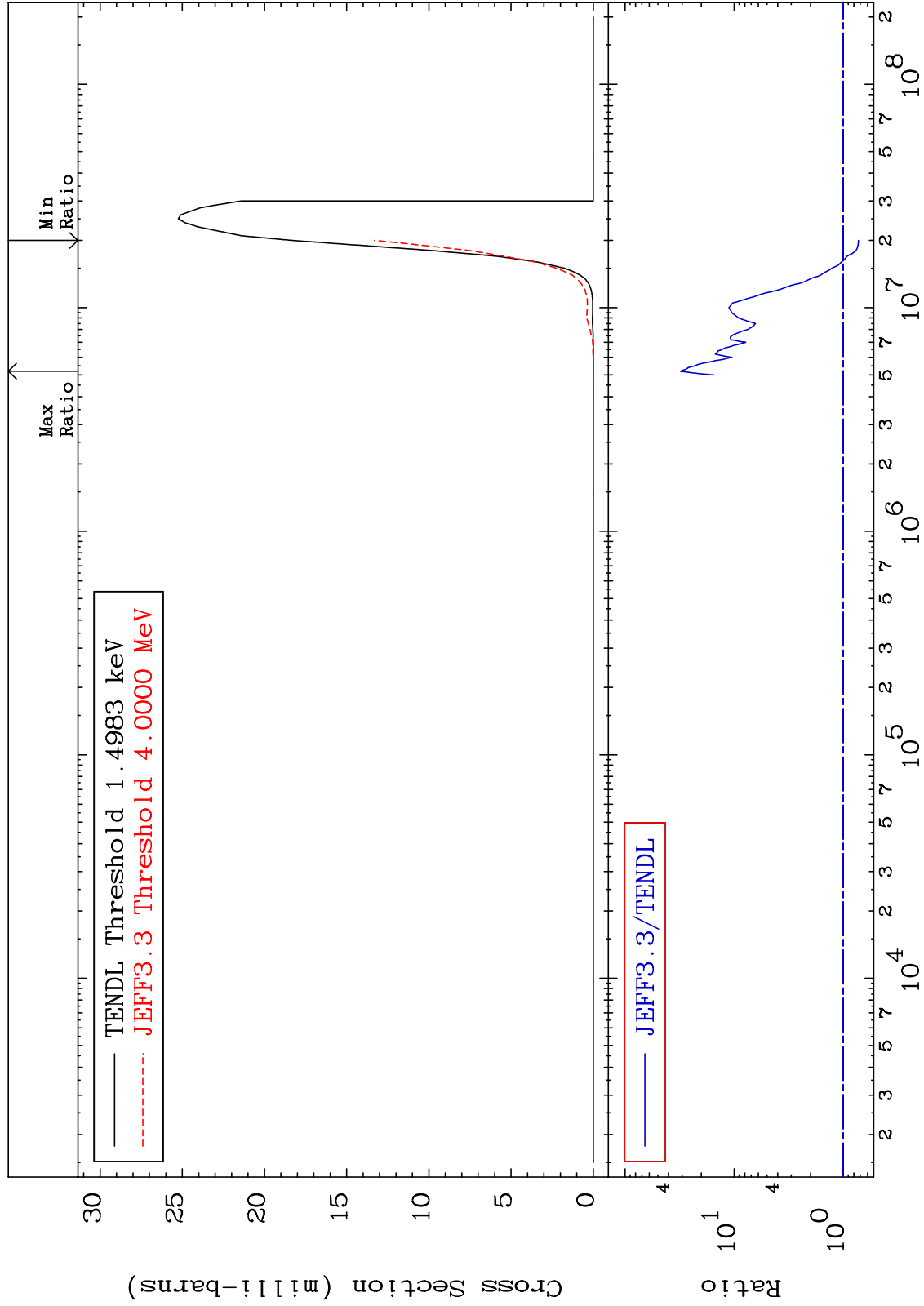
MAT 6237

(n, n')  $\alpha$

62-Sm-148

Cross Section

-27.42 To 3007. %



6

62-Sm-148

62-Sm-148

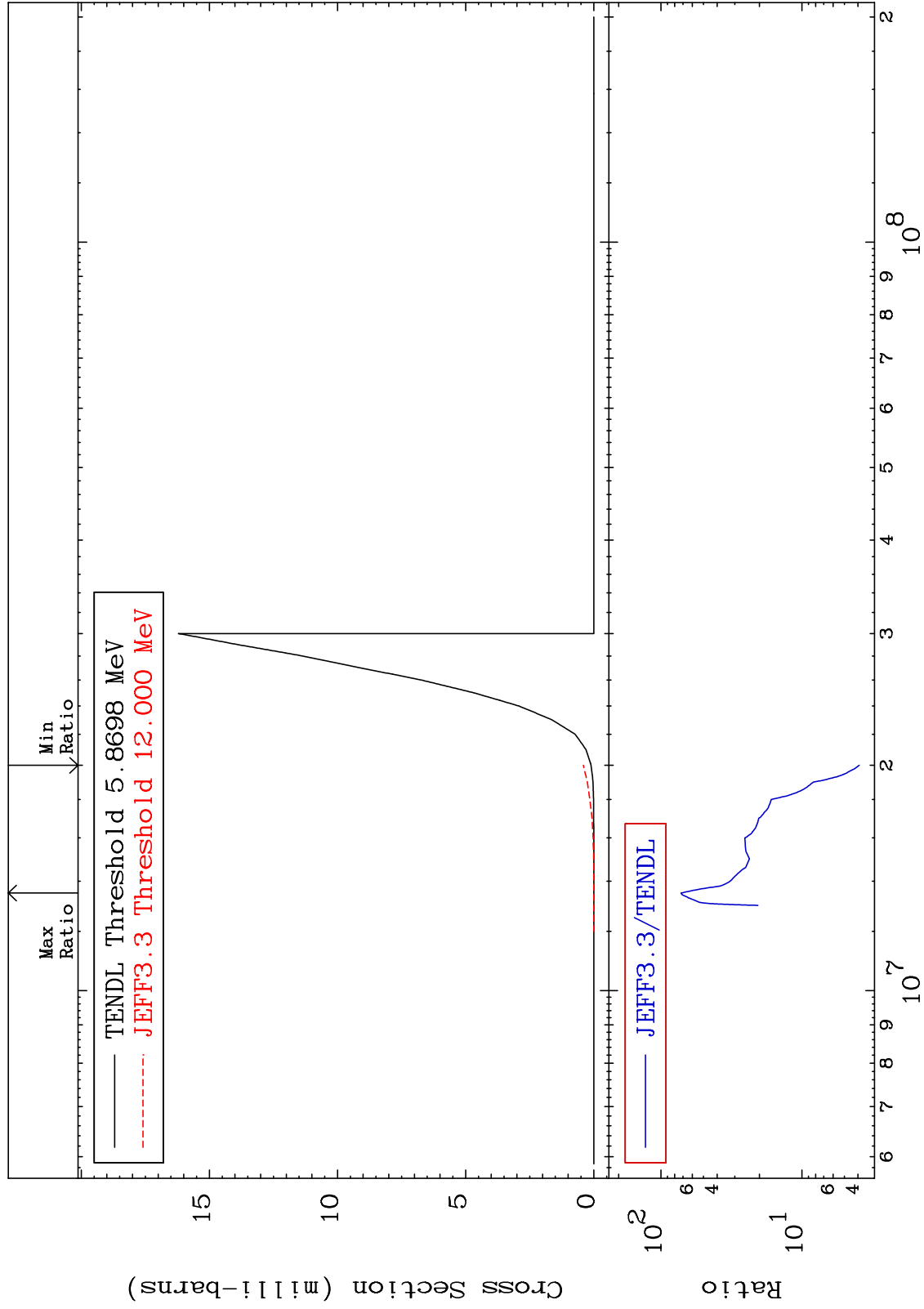
MAT 6237

(n,2n)  $\alpha$

62-Sm-148

Cross Section

291.6 To 7111. %

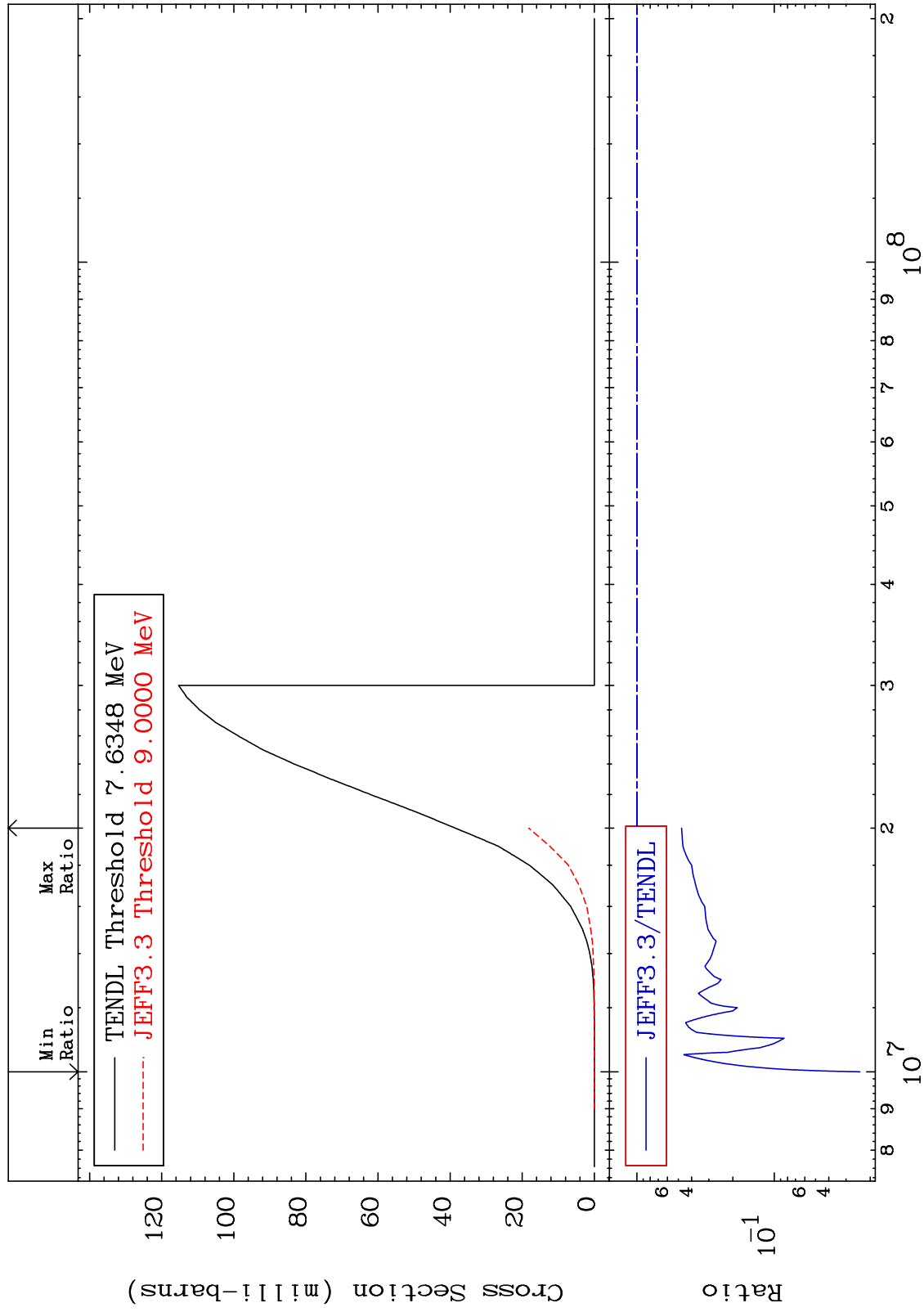




MAT 6237

(n,n') p  
Cross Section

62-Sm-148  
-97.63 To -52.75%



8

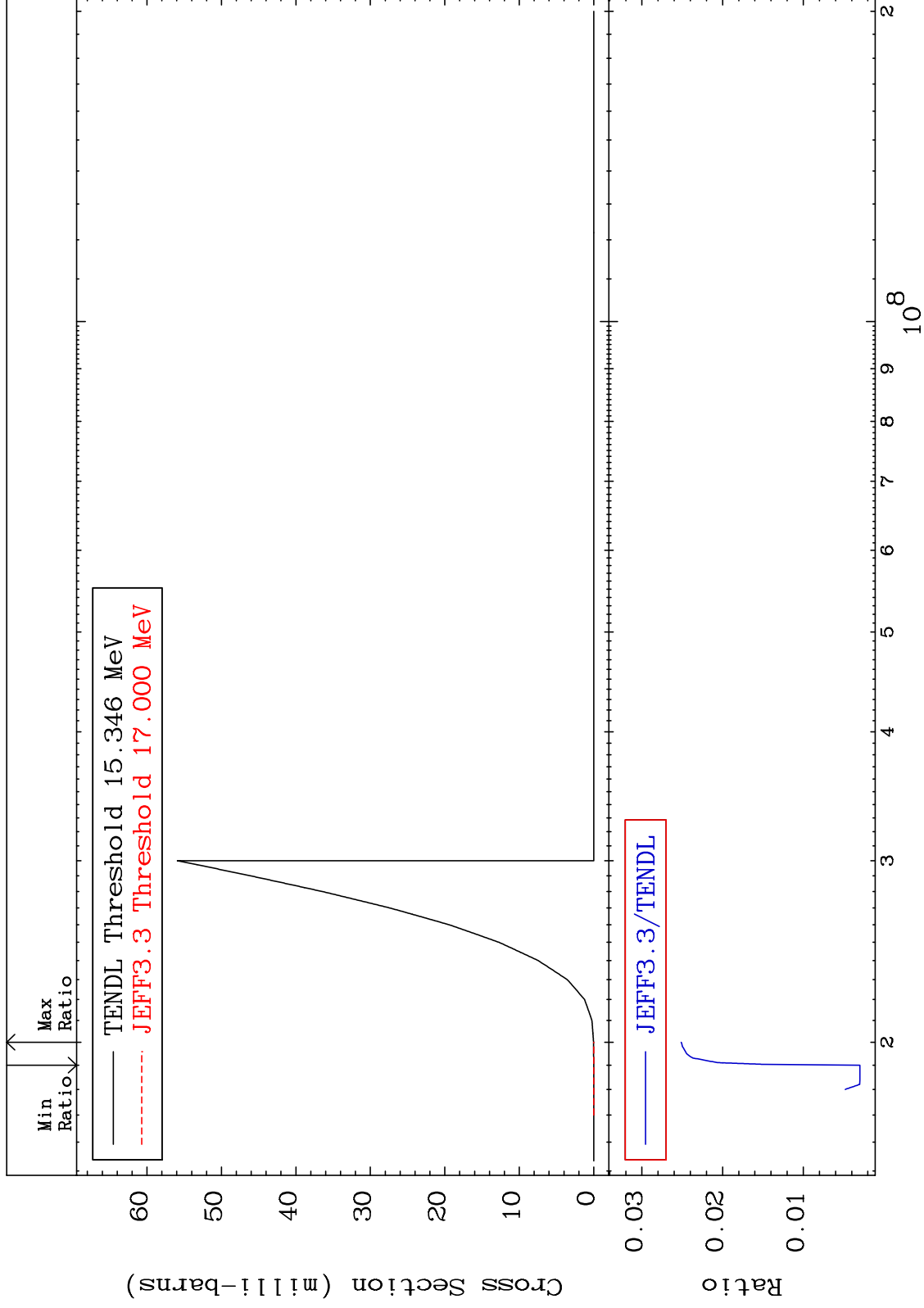
Incident Energy (eV)

62-Sm-148

MAT 6237

(n,2n) p  
Cross Section

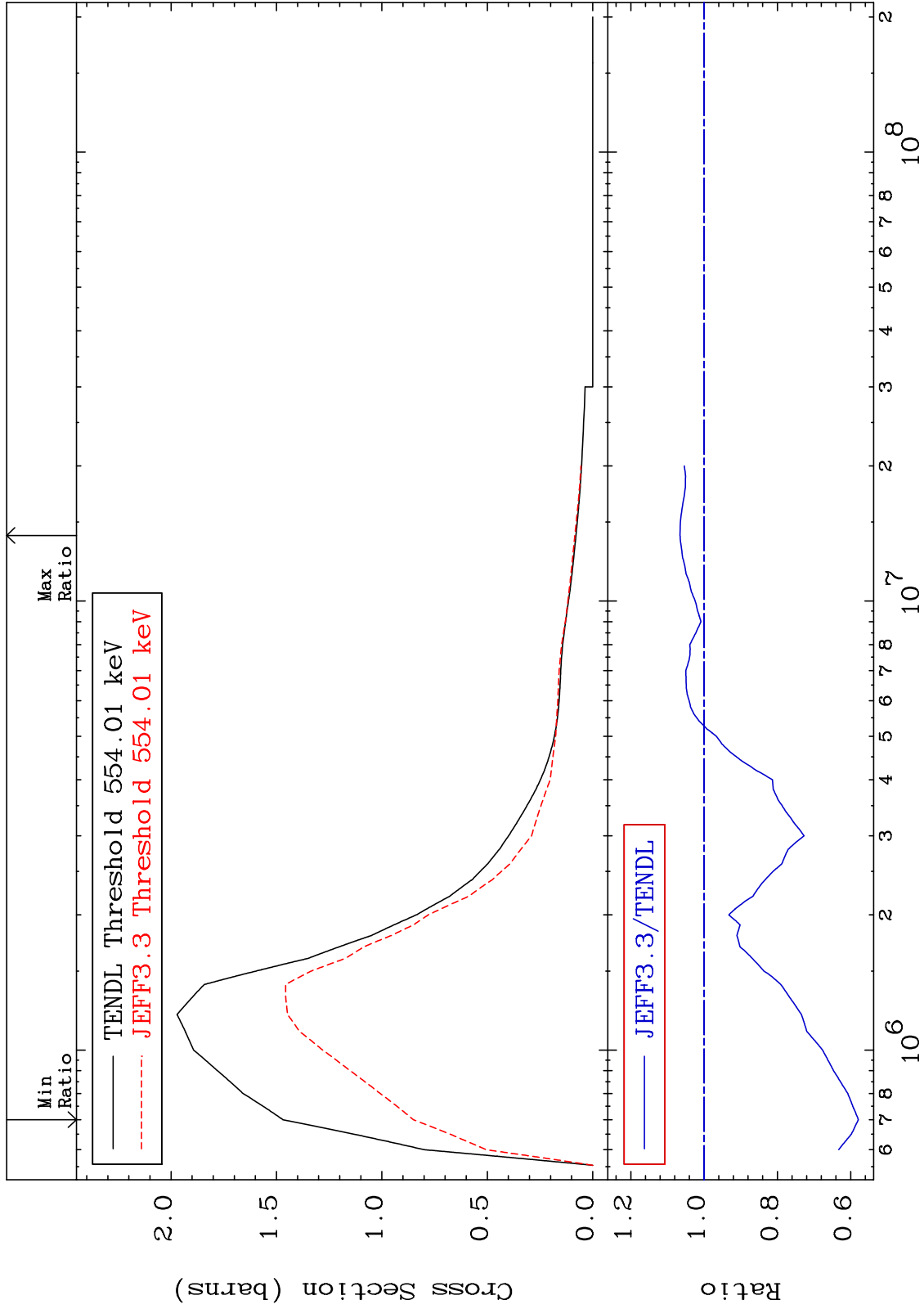
62-Sm-148  
-99.70 To -97.49%



MAT 6237

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

62-Sm-148  
-42.12 To 6.566 %



10

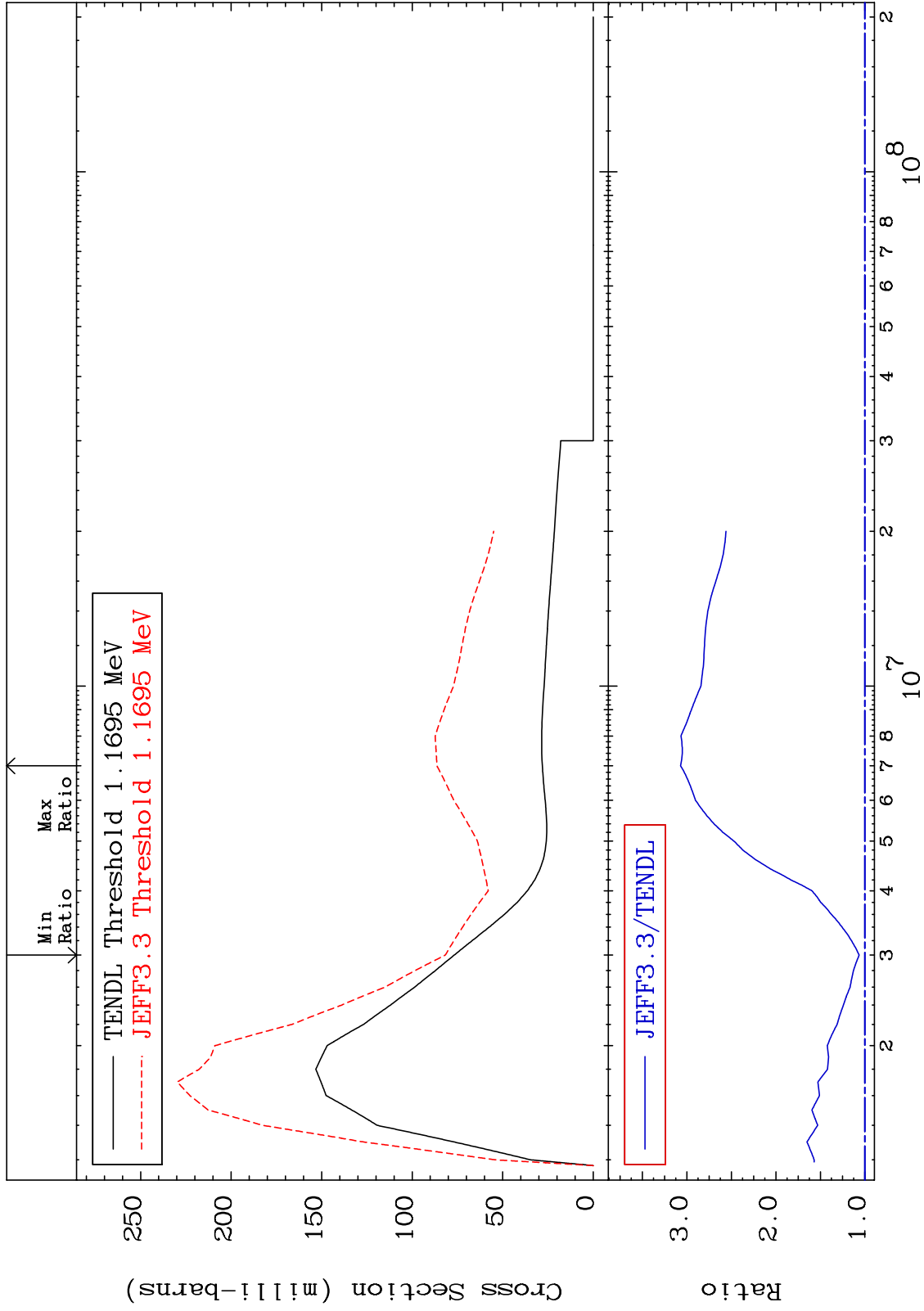
Incident Energy (eV)

62-Sm-148

MAT 6237

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

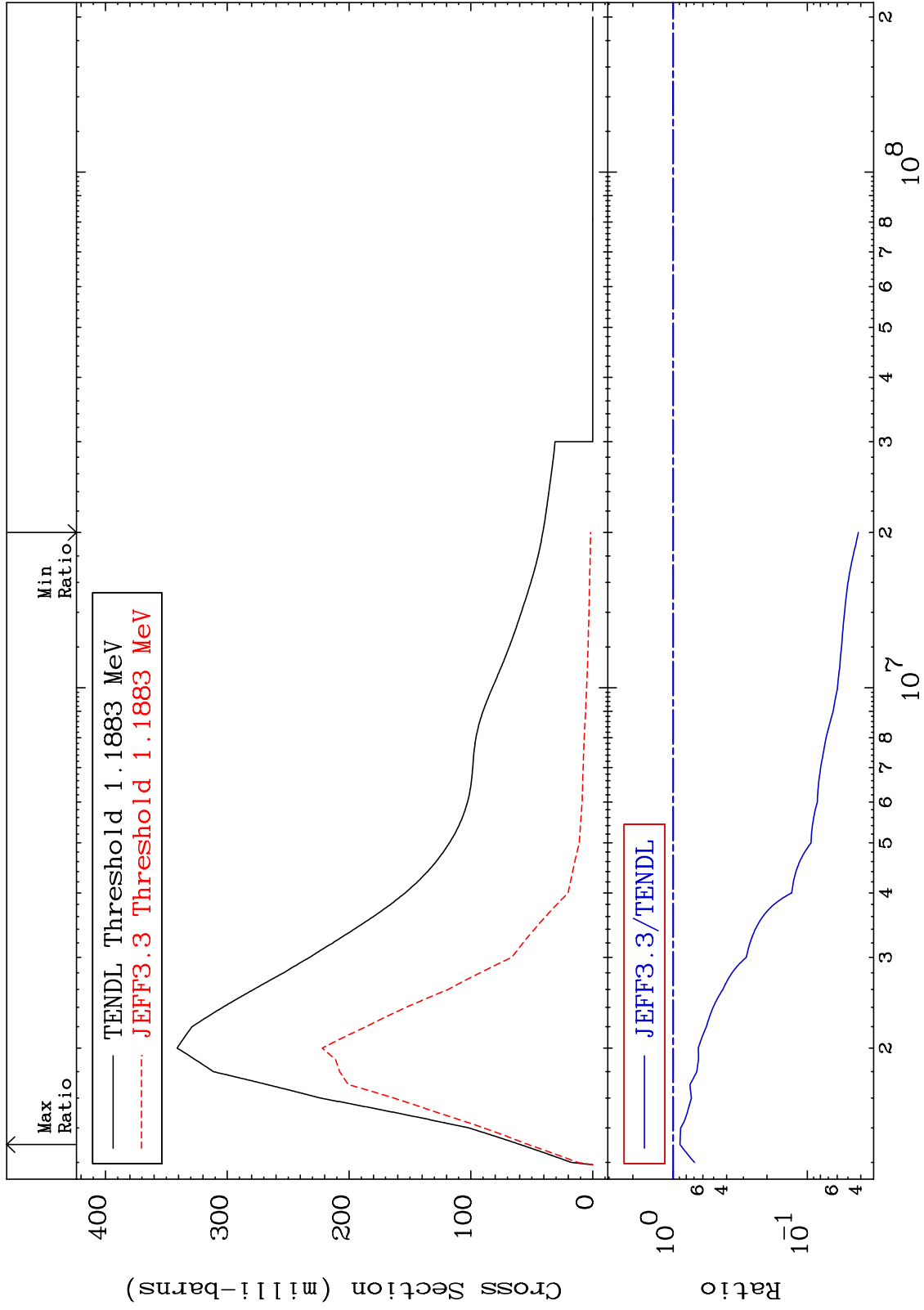
62-Sm-148  
6.411 To 207.1 %



MAT 6237

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

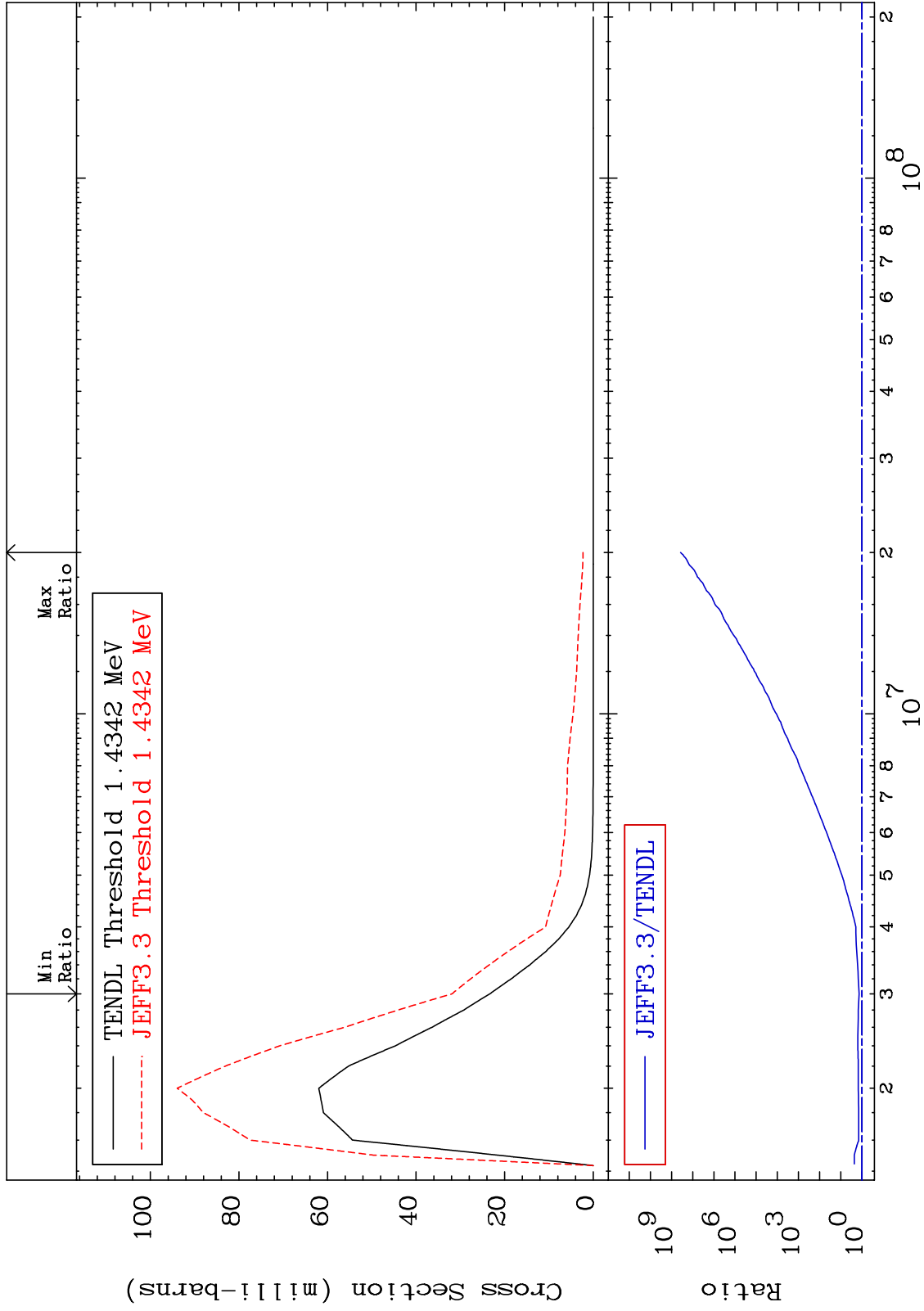
62-Sm-148  
-95.83 To -11.08%



MAT 6237

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

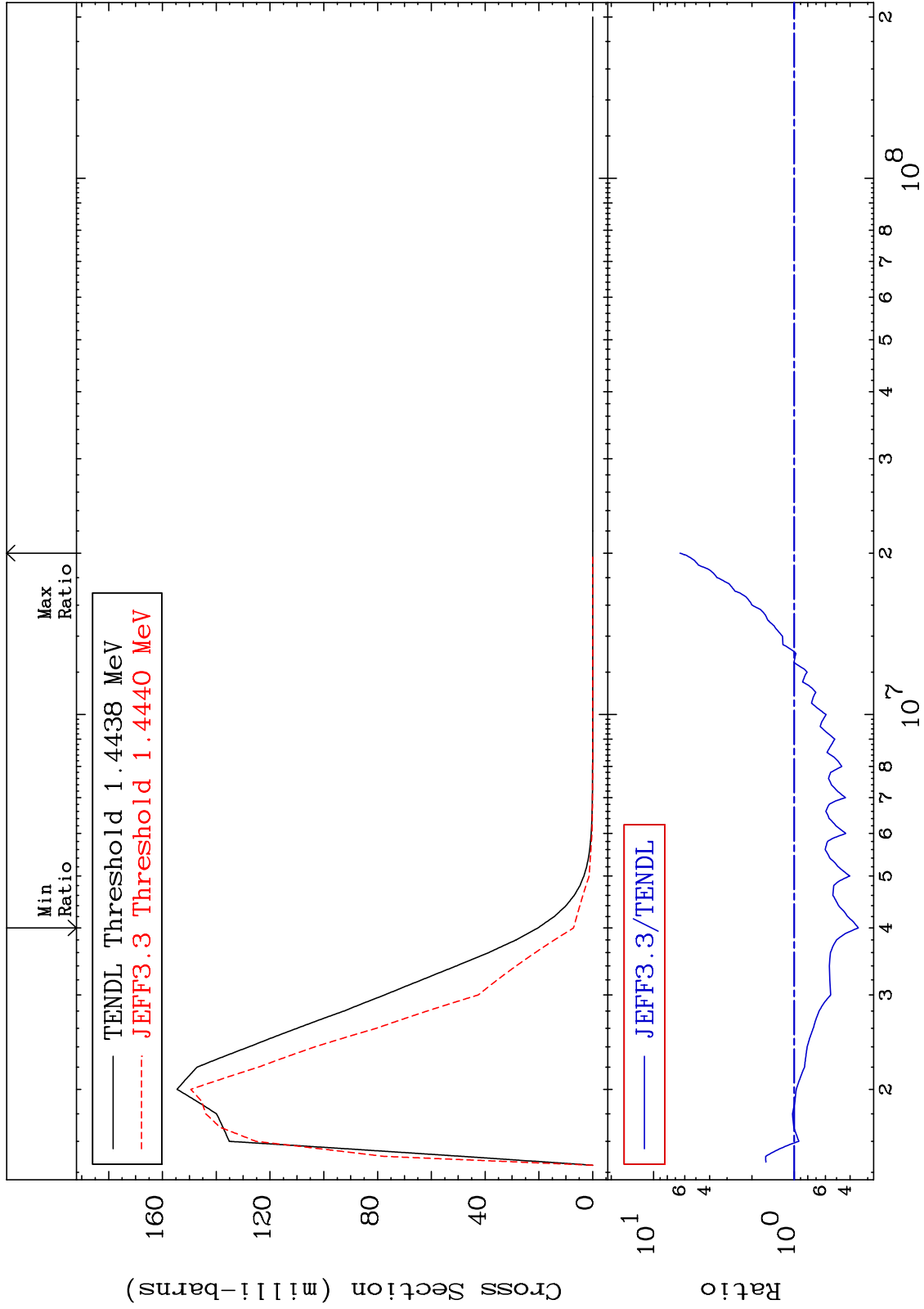
62-Sm-148  
36.57 To 9999. %



MAT 6237

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

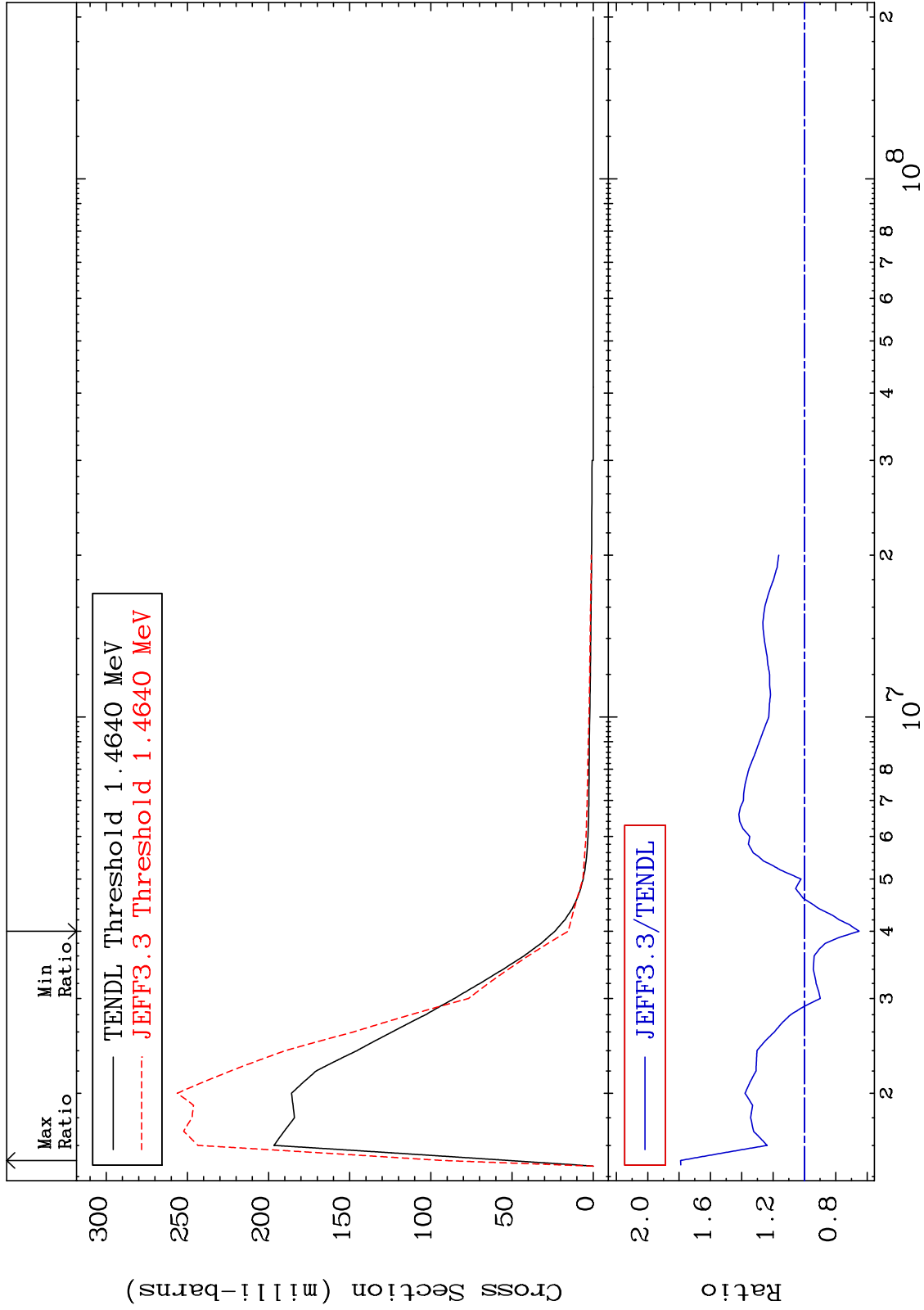
62-Sm-148  
-65.06 To 548.7 %



MAT 6237

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

62-Sm-148  
-34.93 To 79.03 %

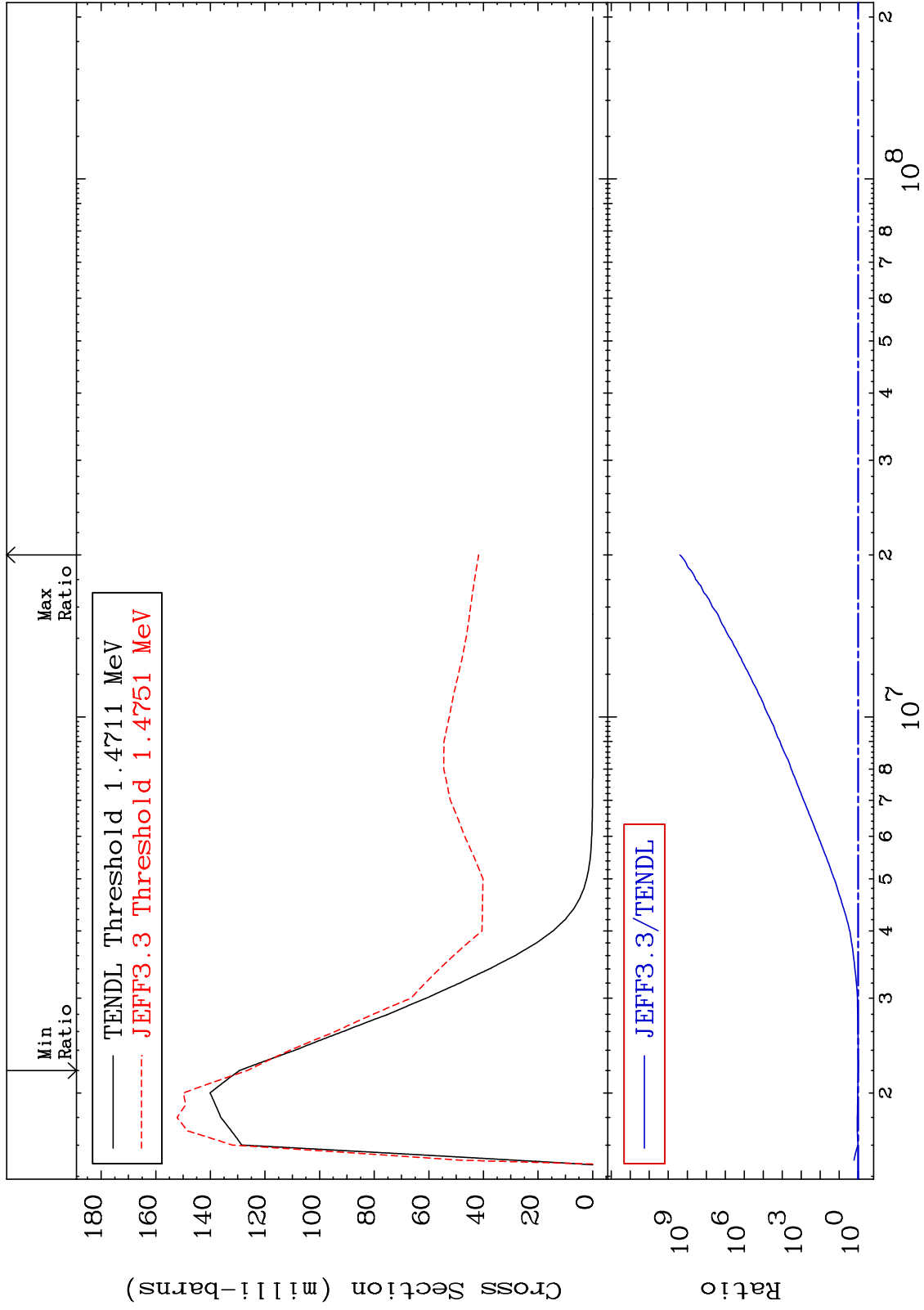




MAT 6237

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

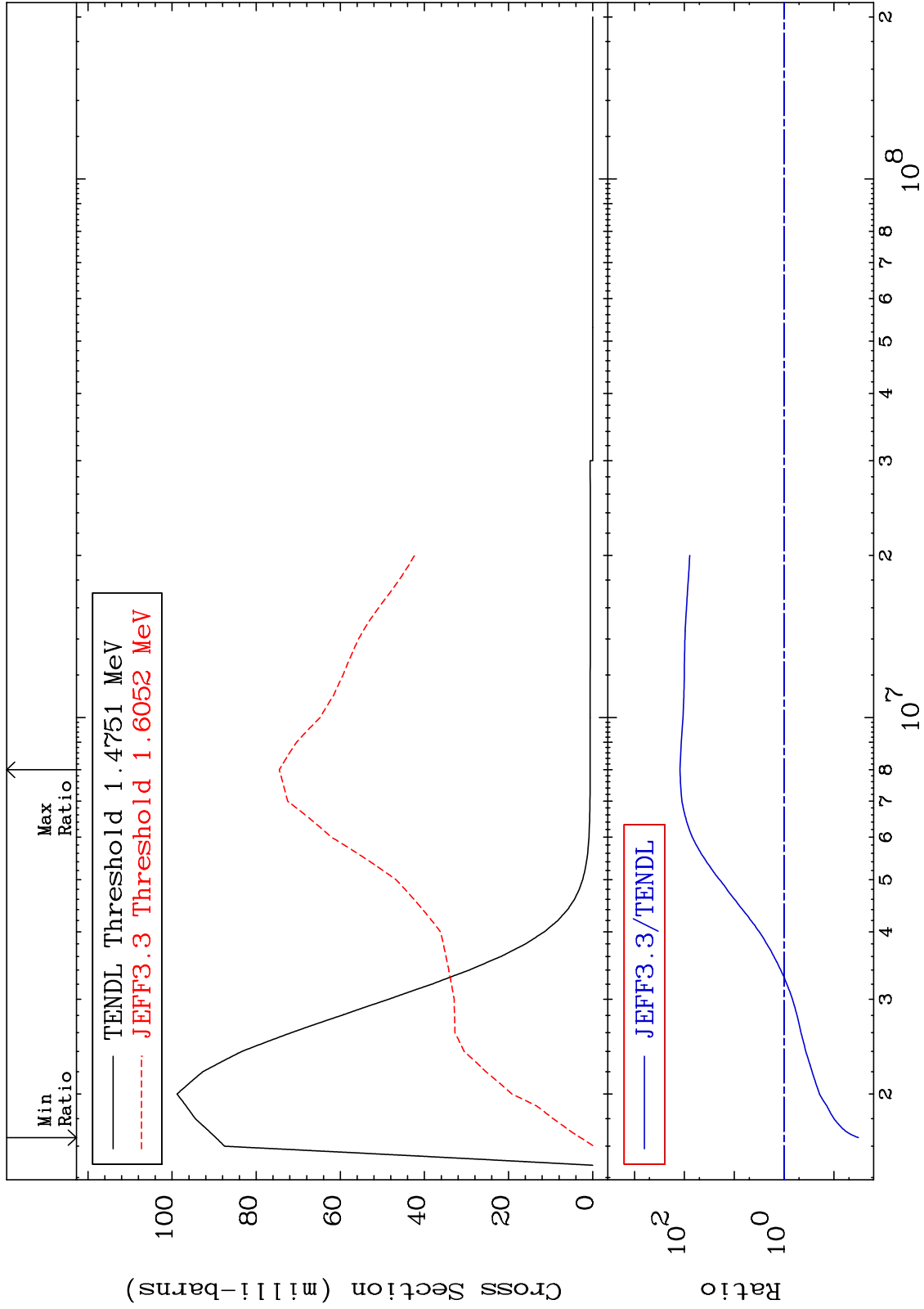
62-Sm-148  
-2.219 To 9999. %



MAT 6237

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

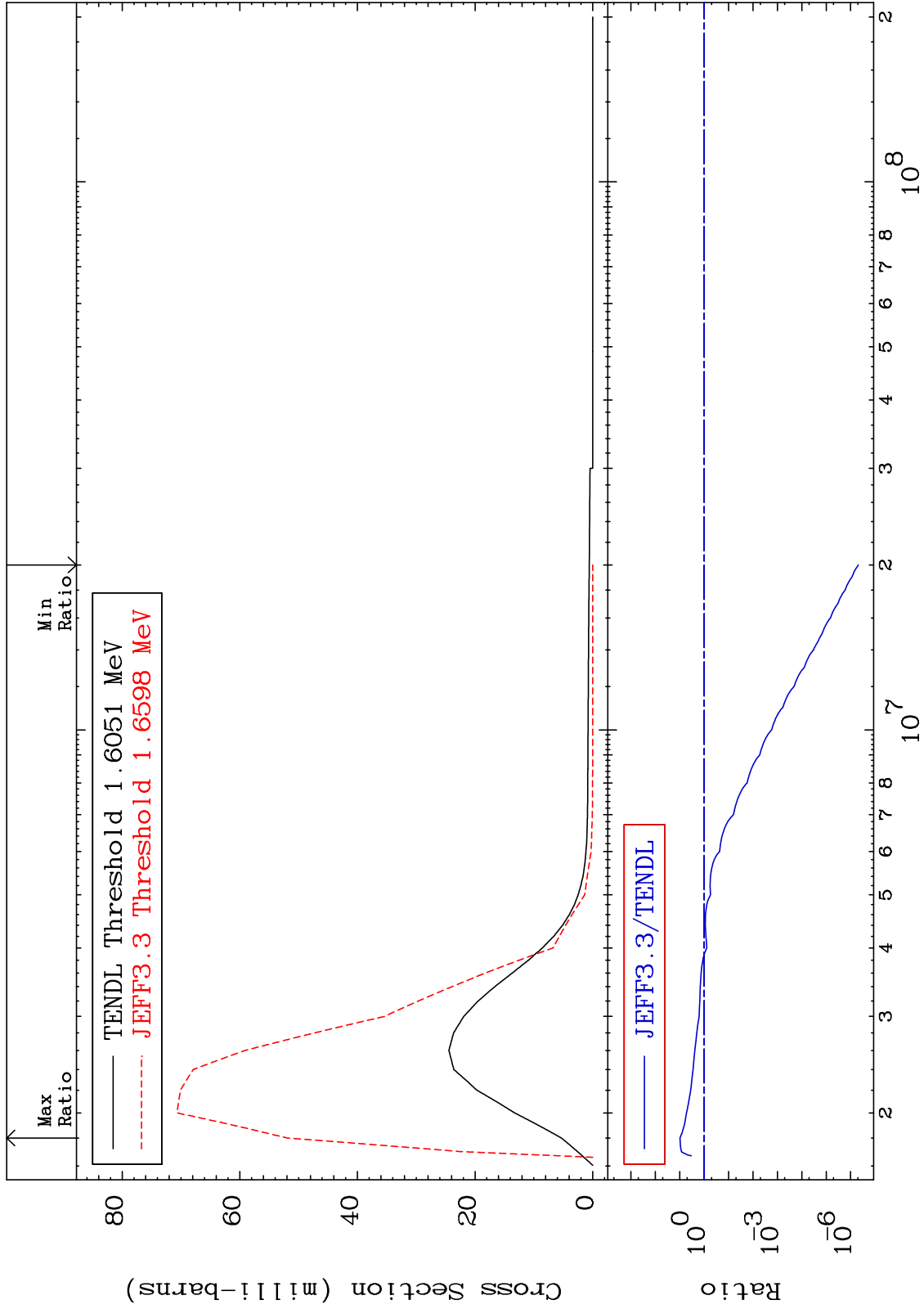
62-Sm-148  
-96.77 To 9999. %



MAT 6237

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

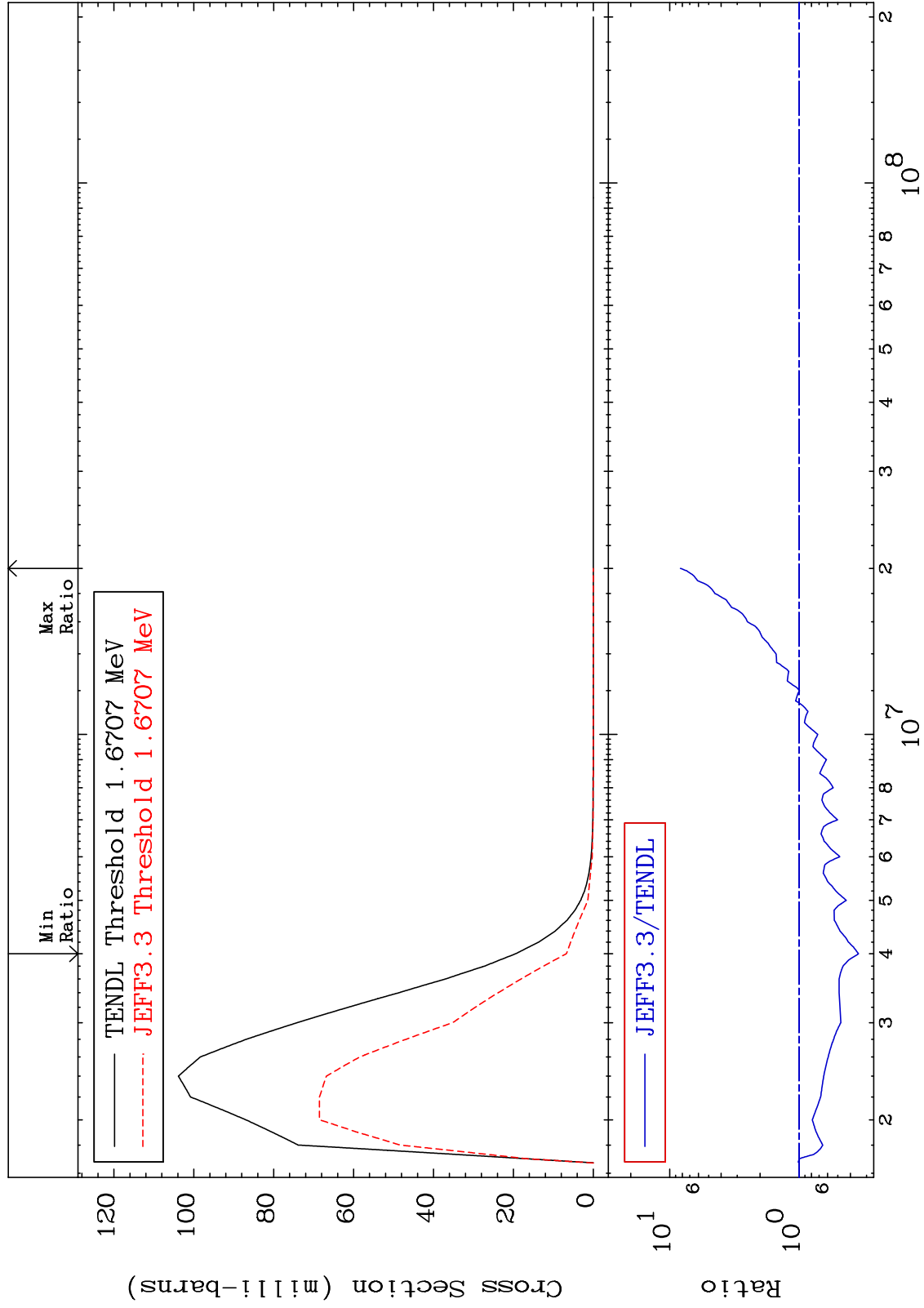
62-Sm-148  
-100.0 To 877.2 %



MAT 6237

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

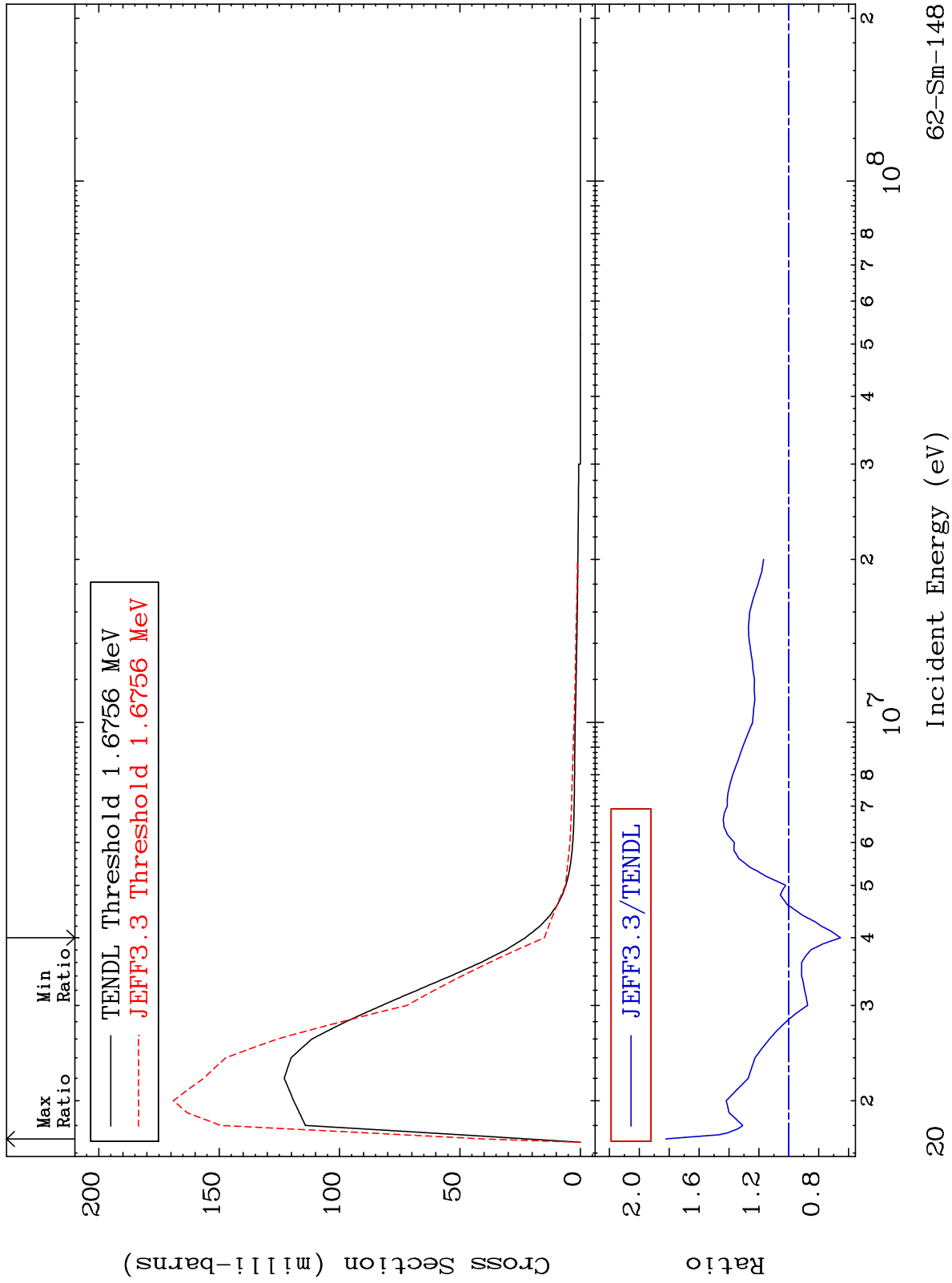
62-Sm-148  
-65.41 To 726.0 %



MAT 6237

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

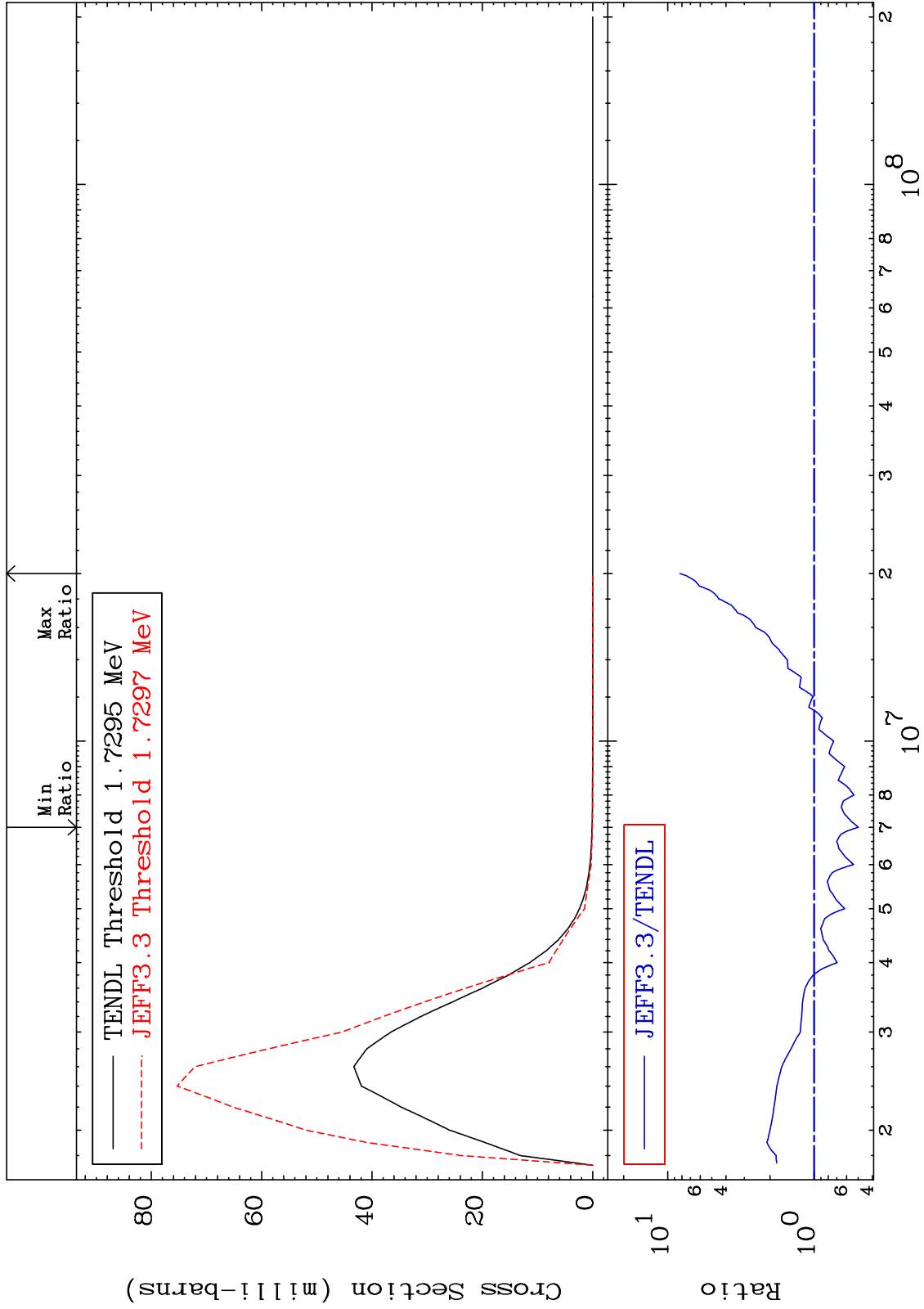
62-Sm-148  
-34.58 To 82.26 %



MAT 6237

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

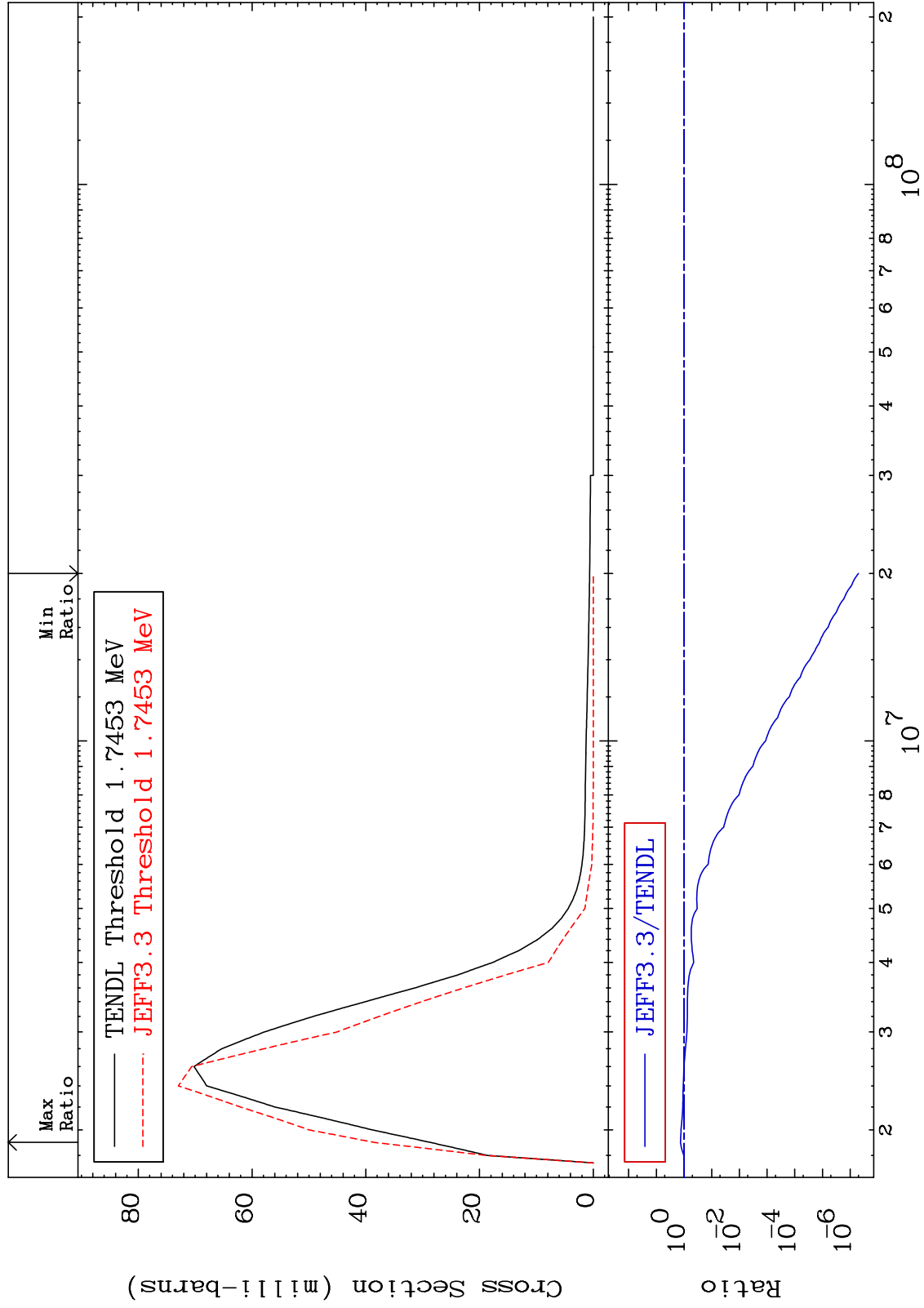
62-Sm-148  
-50.19 To 723.8 %



MAT 6237

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

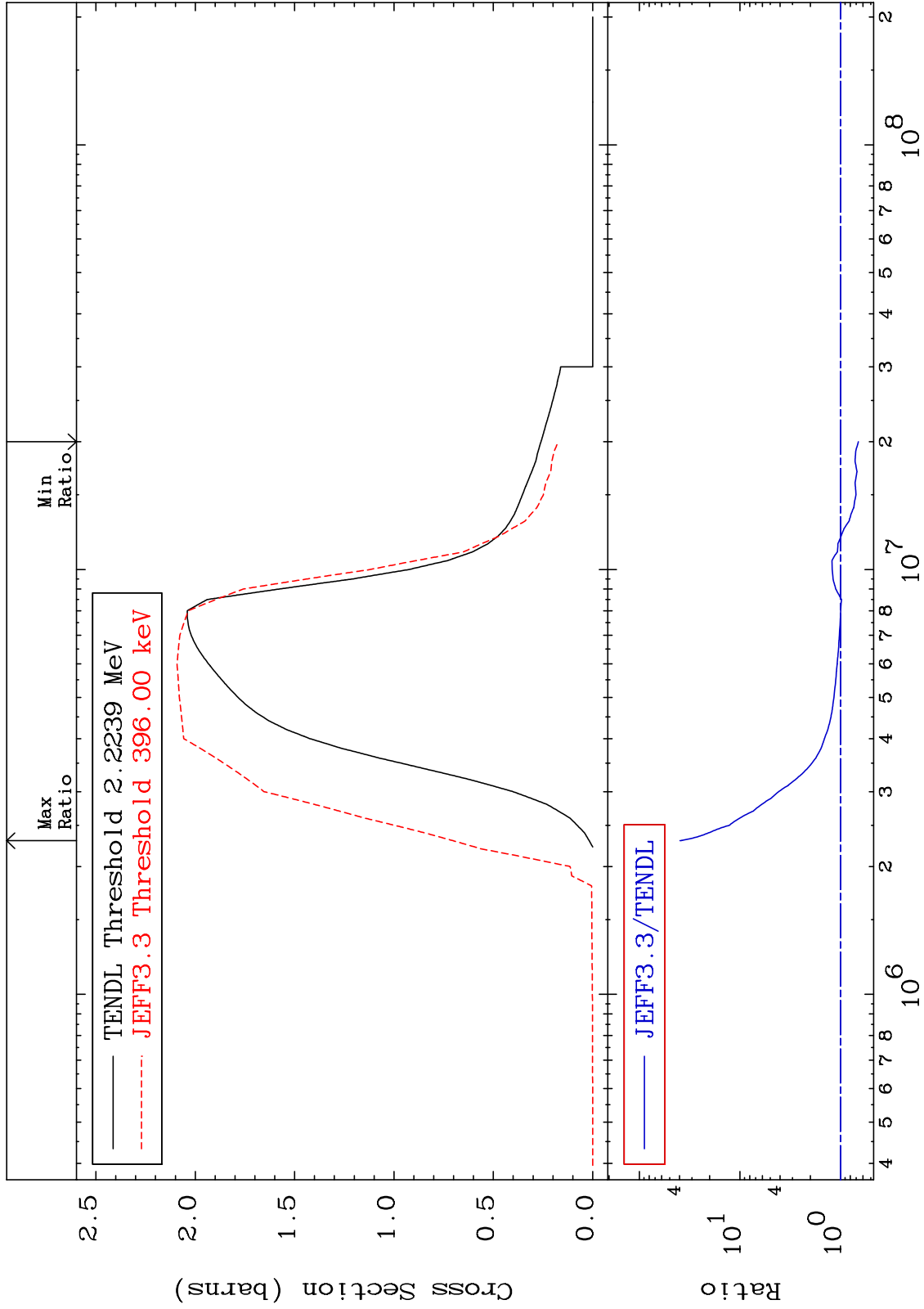
62-Sm-148  
-100.0 To 34.55 %



MAT 6237

(n, n') Continuum  
Cross Section

62-Sm-148  
-33.57 To 3848. %

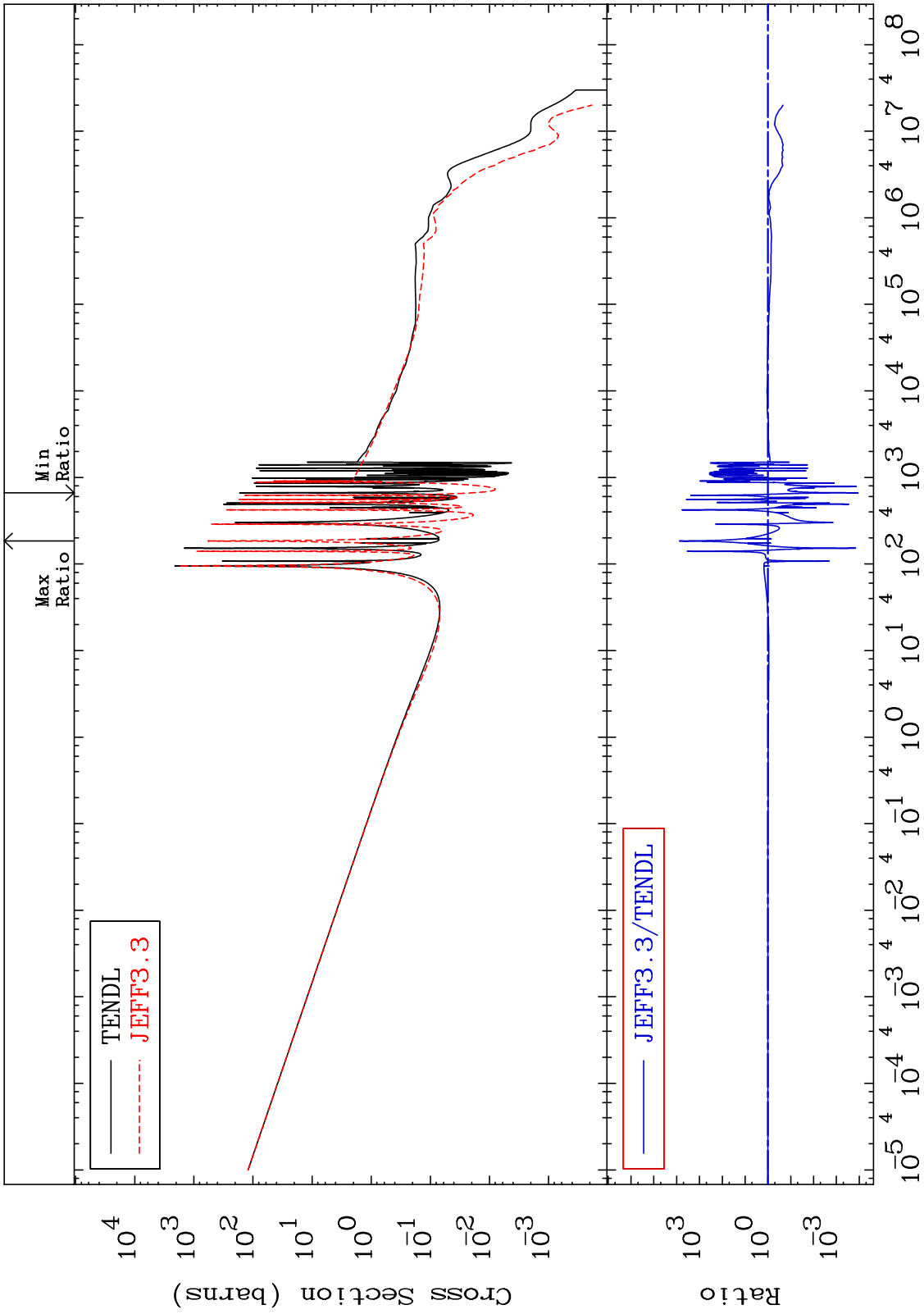




MAT 6237

(n,  $\gamma$ )  
Cross Section

62-Sm-148  
-99.99 To 9999. %



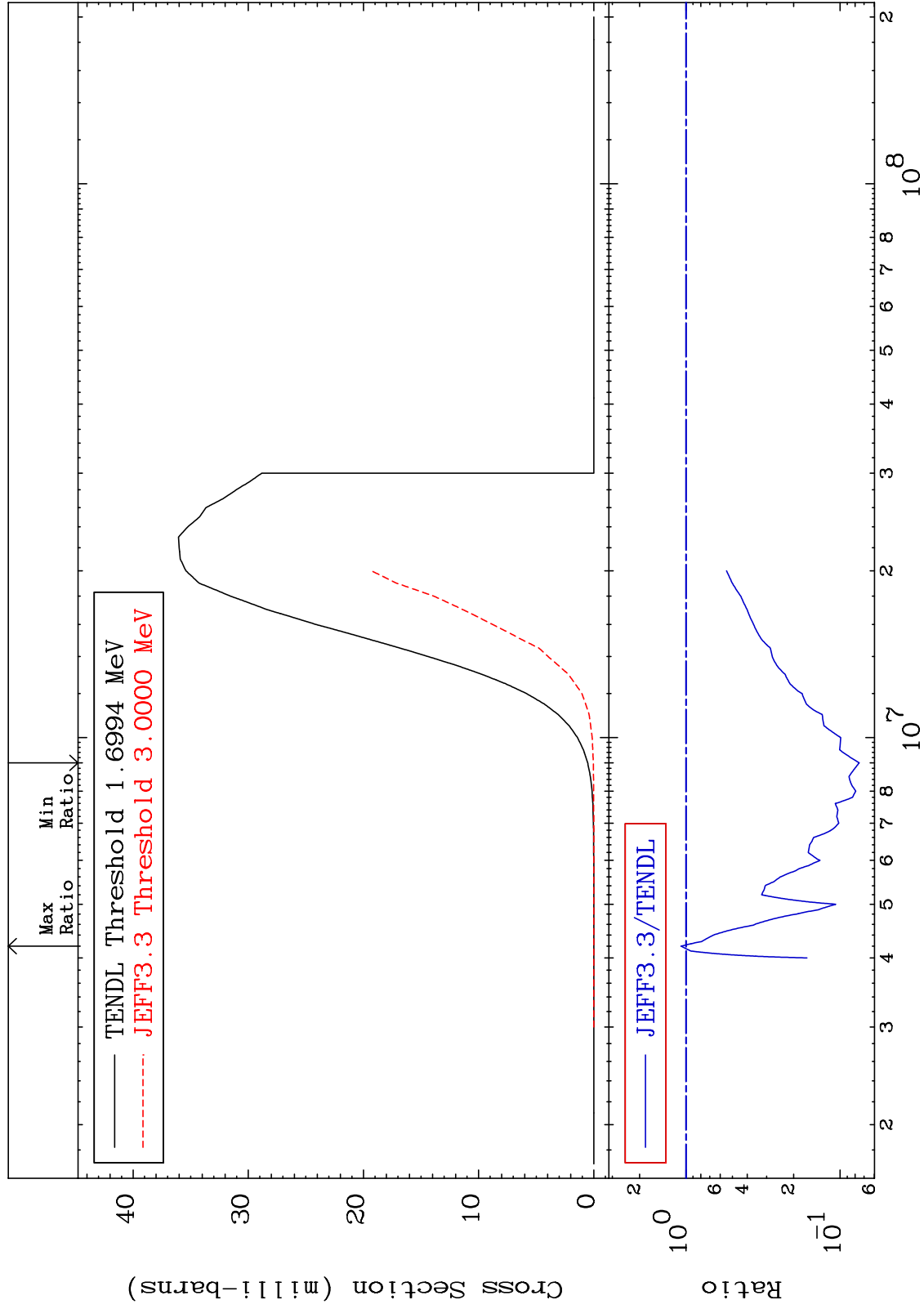
MAT 6237

(n, p)

62-Sm-148

Cross Section

-92.49 To 7.504 %



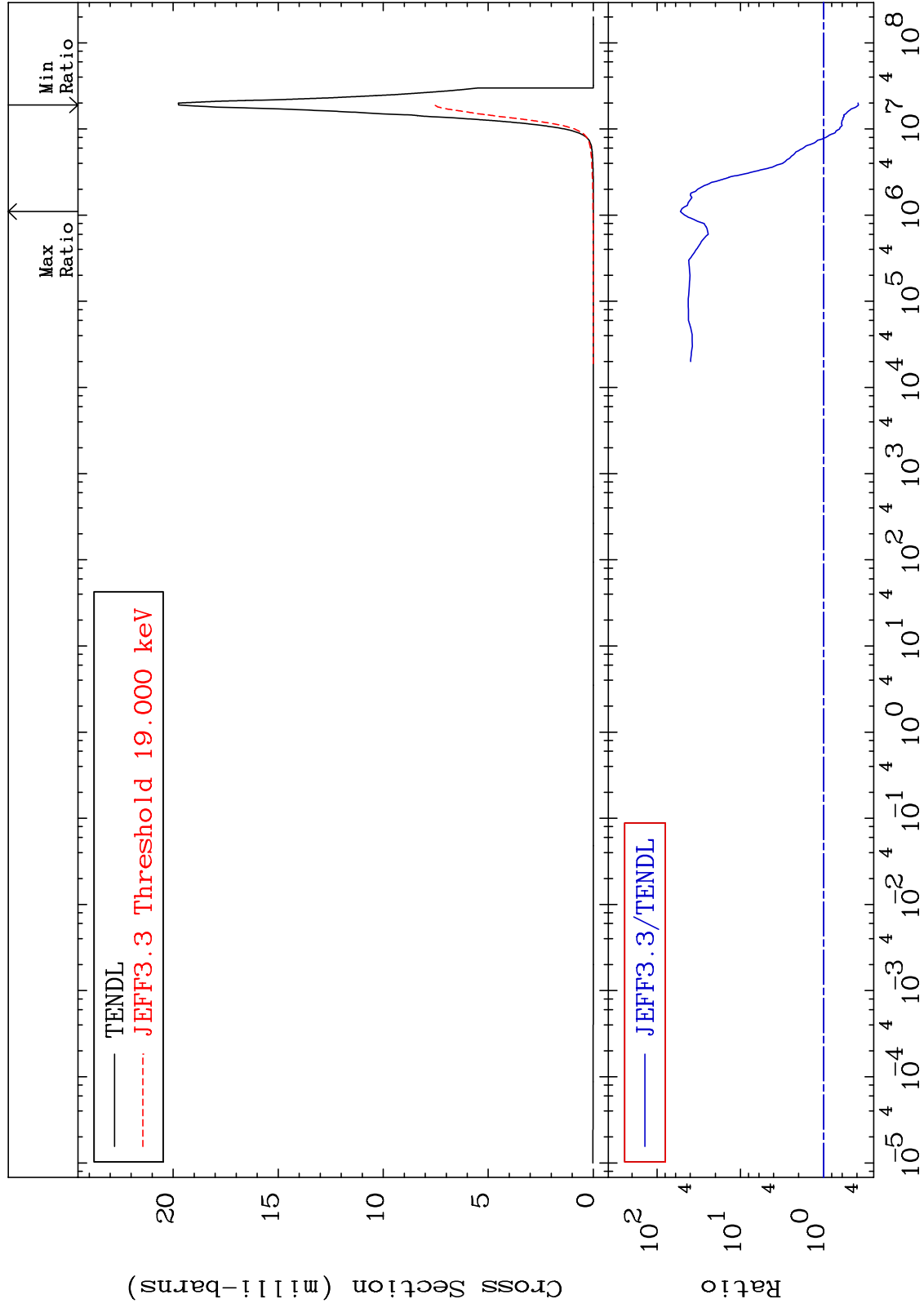
MAT 6237

(n,  $\alpha$ )

62-Sm-148

Cross Section

-61.78 To 5146. %



26

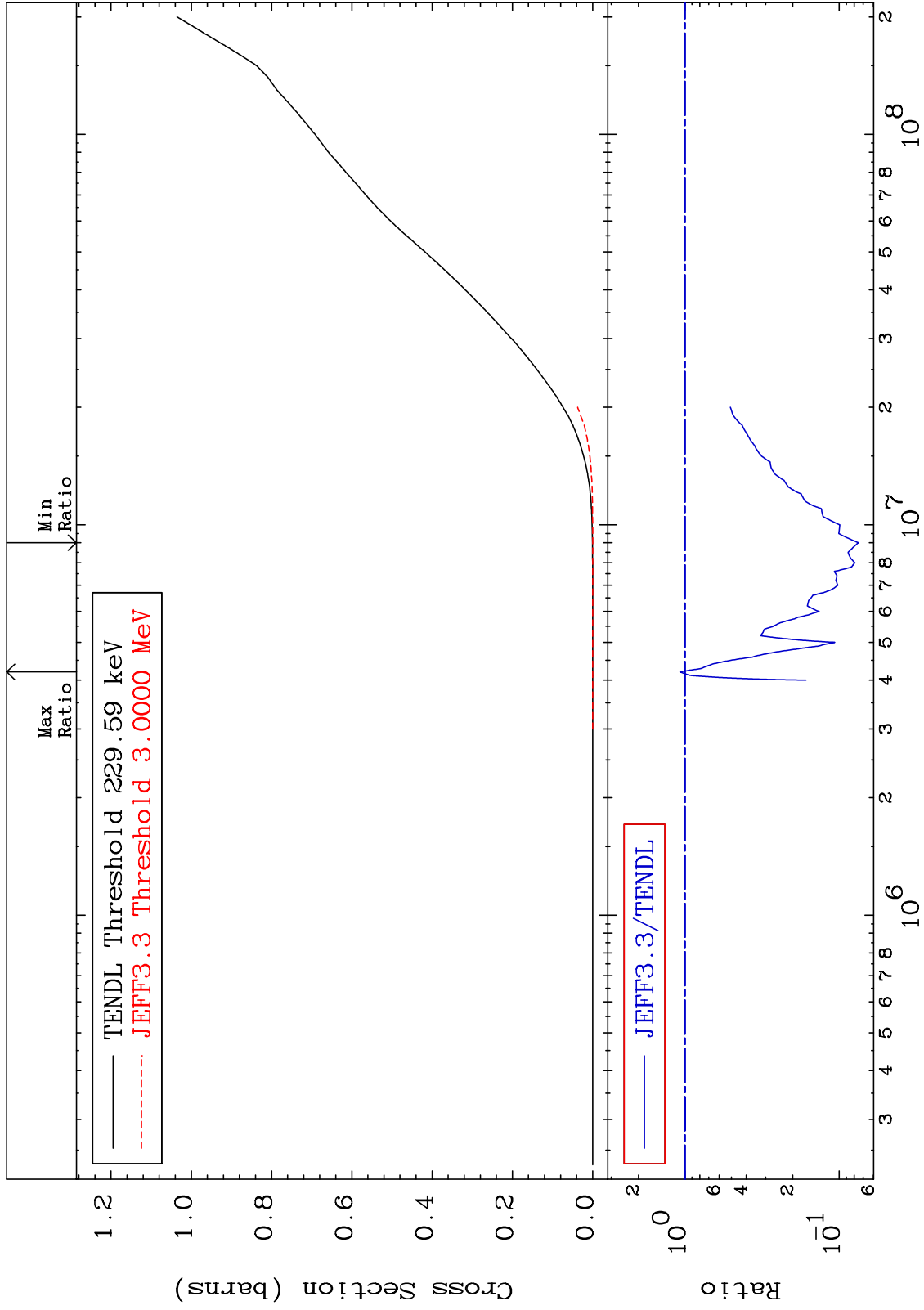
Incident Energy (eV)

62-Sm-148

MAT 6237

Hydrogen Production  
Cross Section

62-Sm-148  
-92.49 To 7.504 %



27

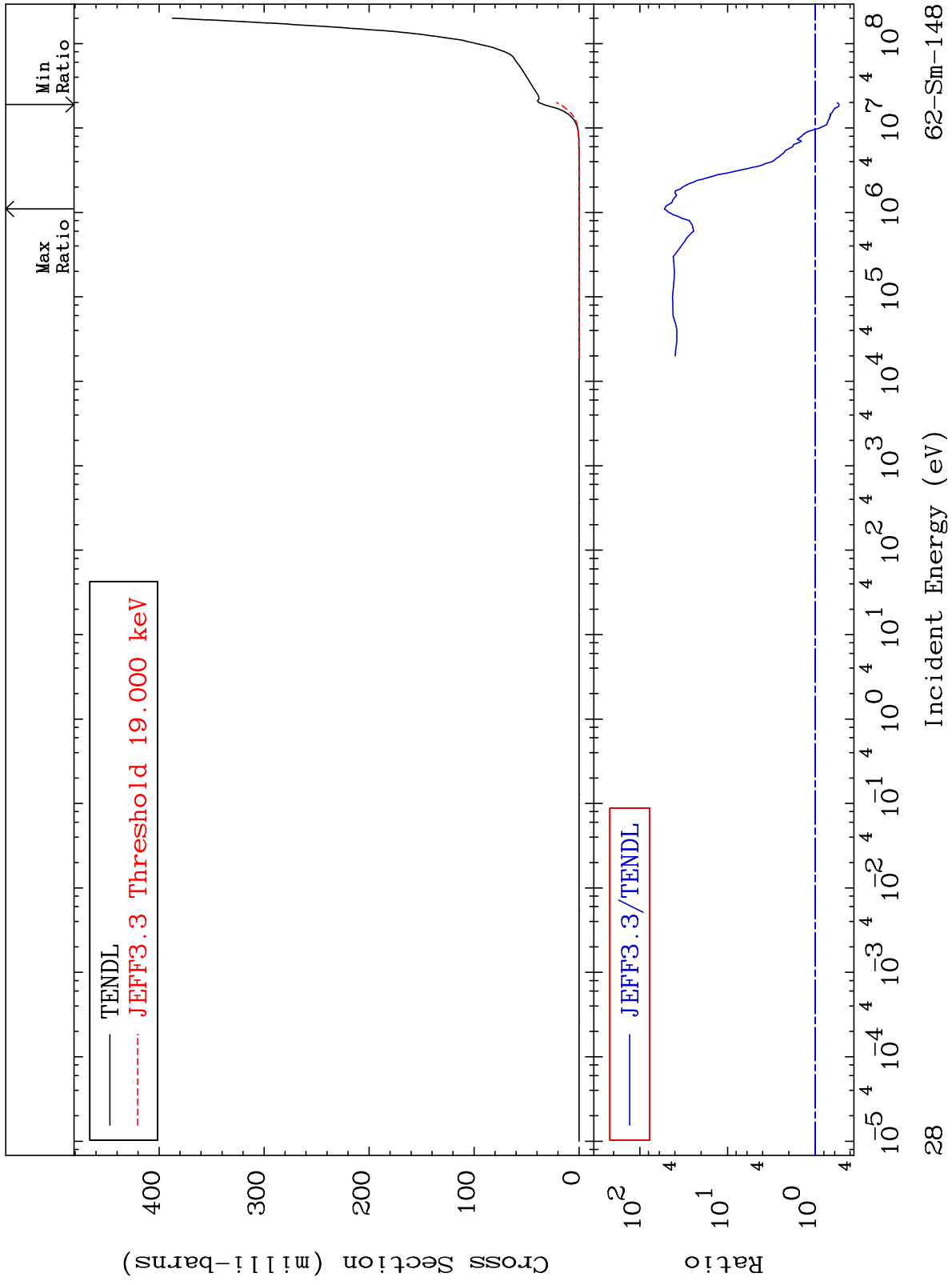
Incident Energy (eV)

62-Sm-148

MAT 6237

He-4 Production  
Cross Section

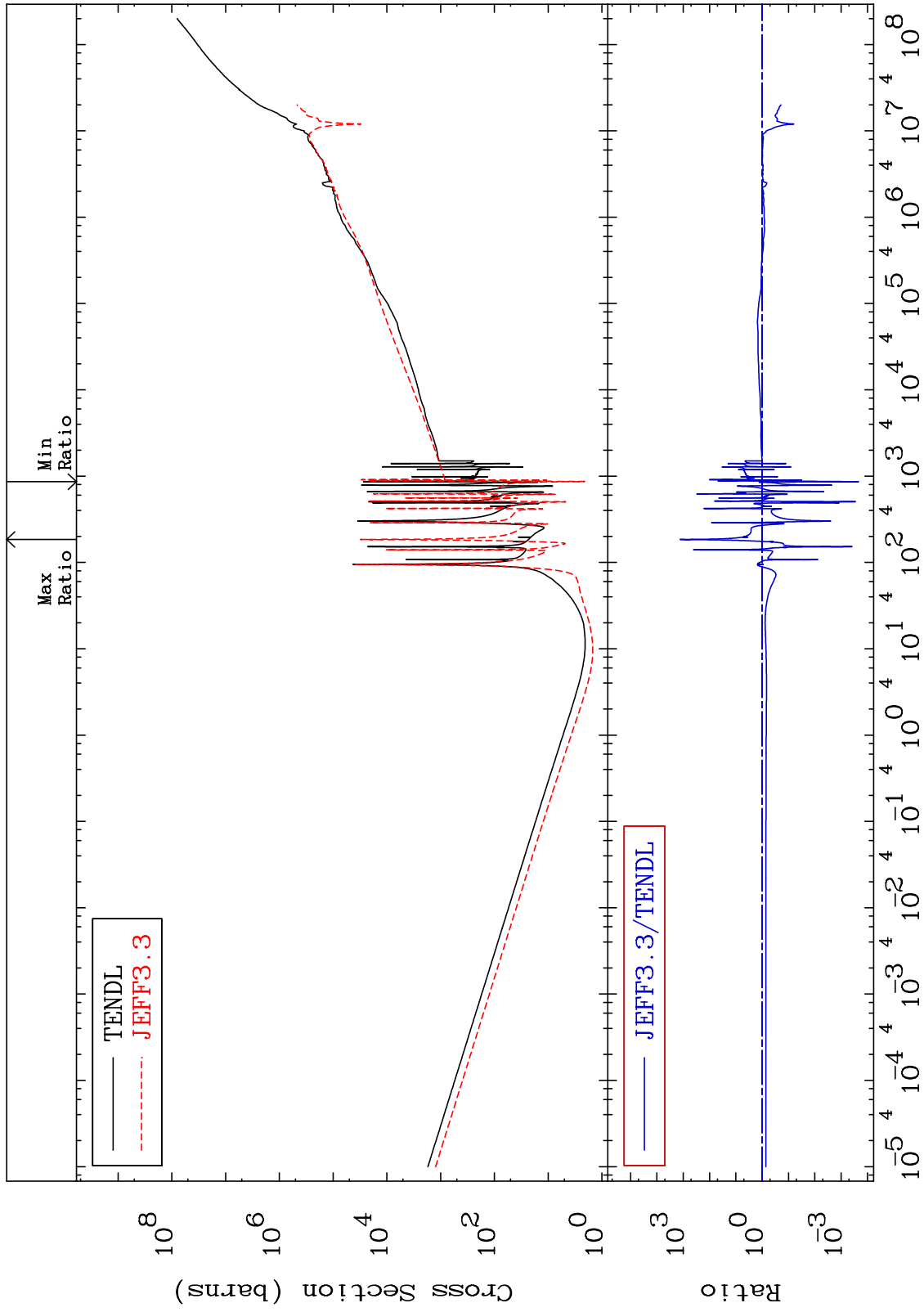
62-Sm-148  
-46.43 To 5146. %



MAT 6237

Kerma total (eV-barns)  
Cross Section

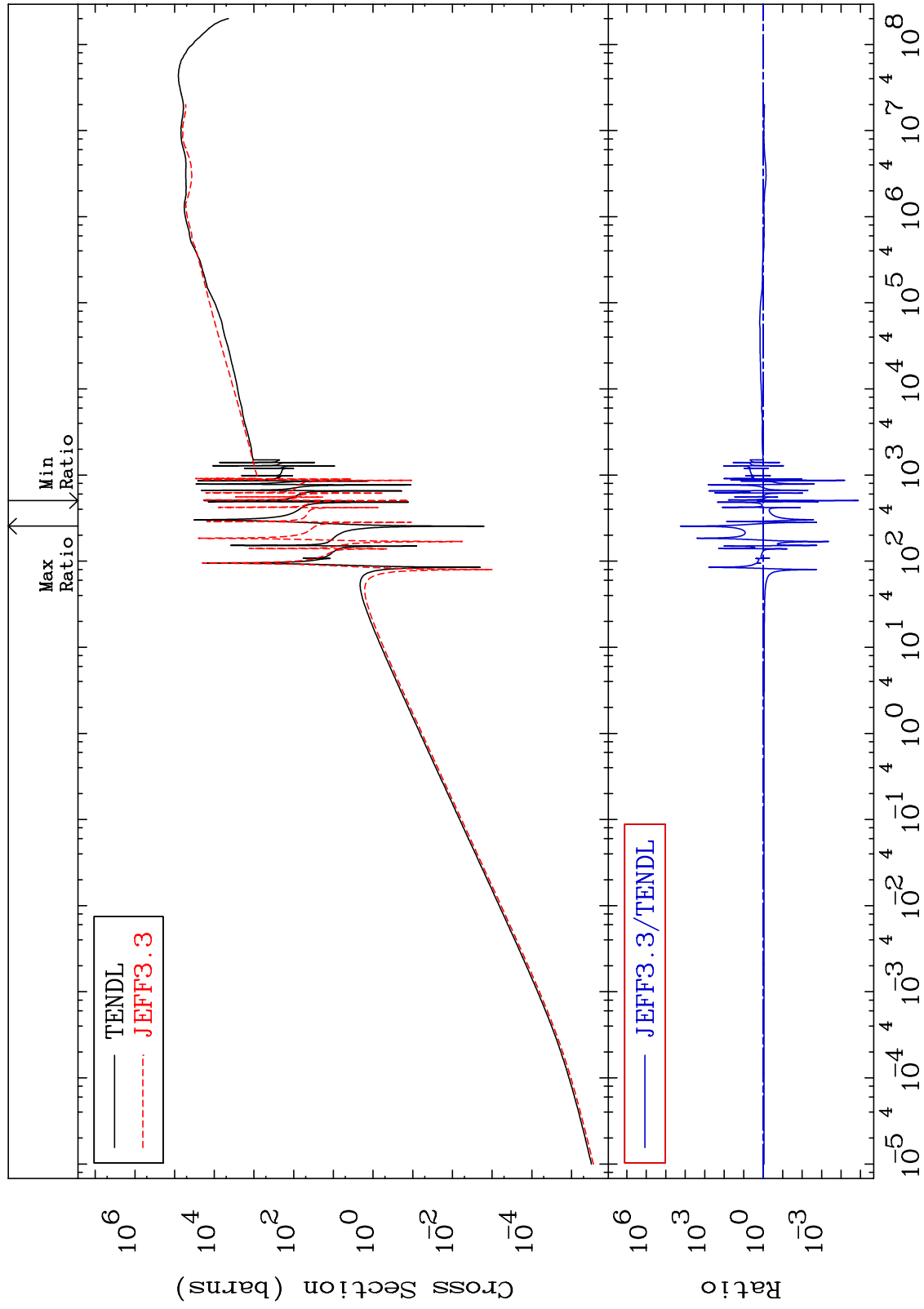
62-Sm-148  
-99.98 To 9999. %



MAT 6237

Kerma elastic  
Cross Section

62-Sm-148  
-100.0 To 9999. %



30

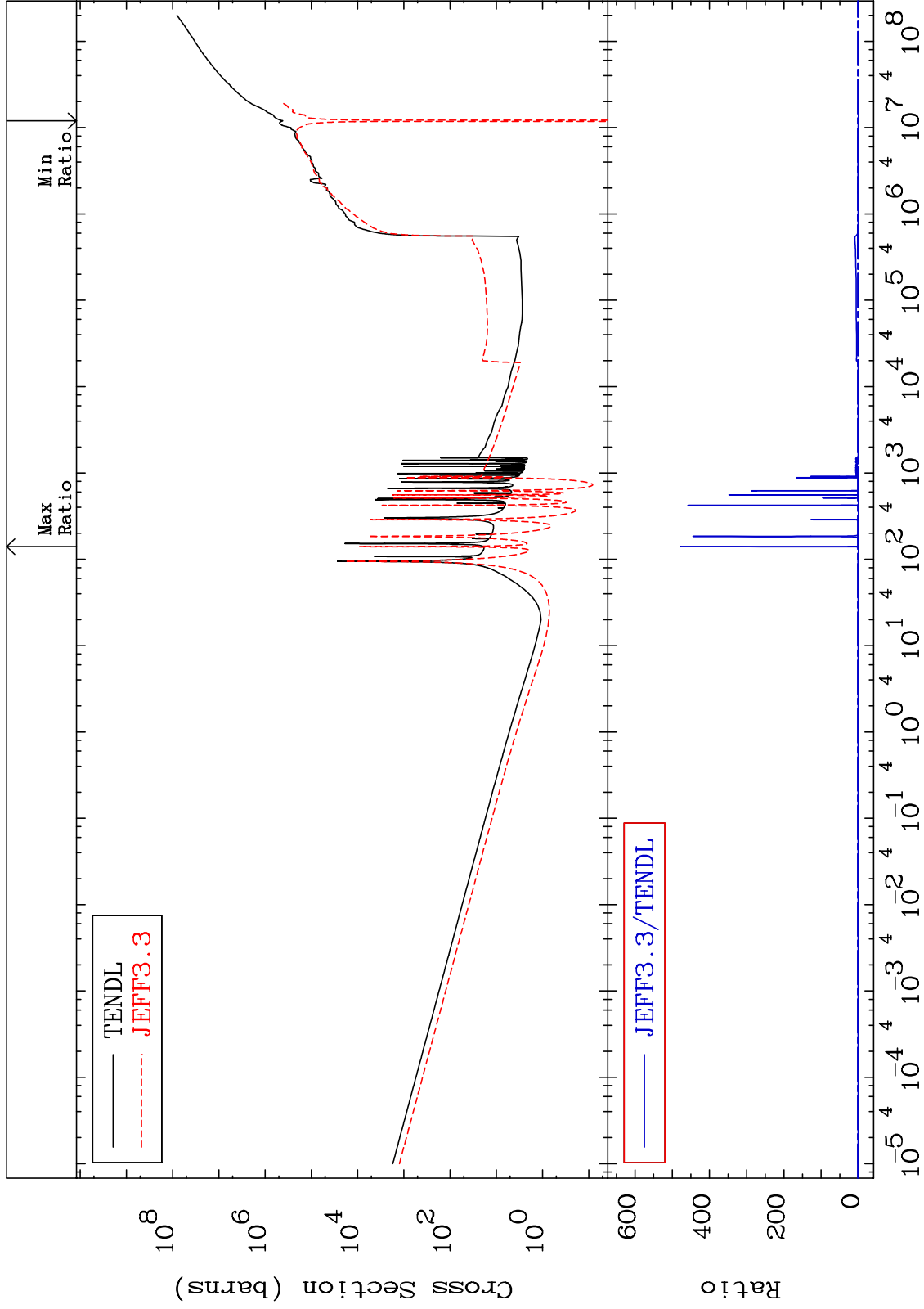
Incident Energy (eV)

62-Sm-148

MAT 6237

Kerma non-elastic (all but mt2)  
Cross Section

62-Sm-148  
-107.4 To 9999. %

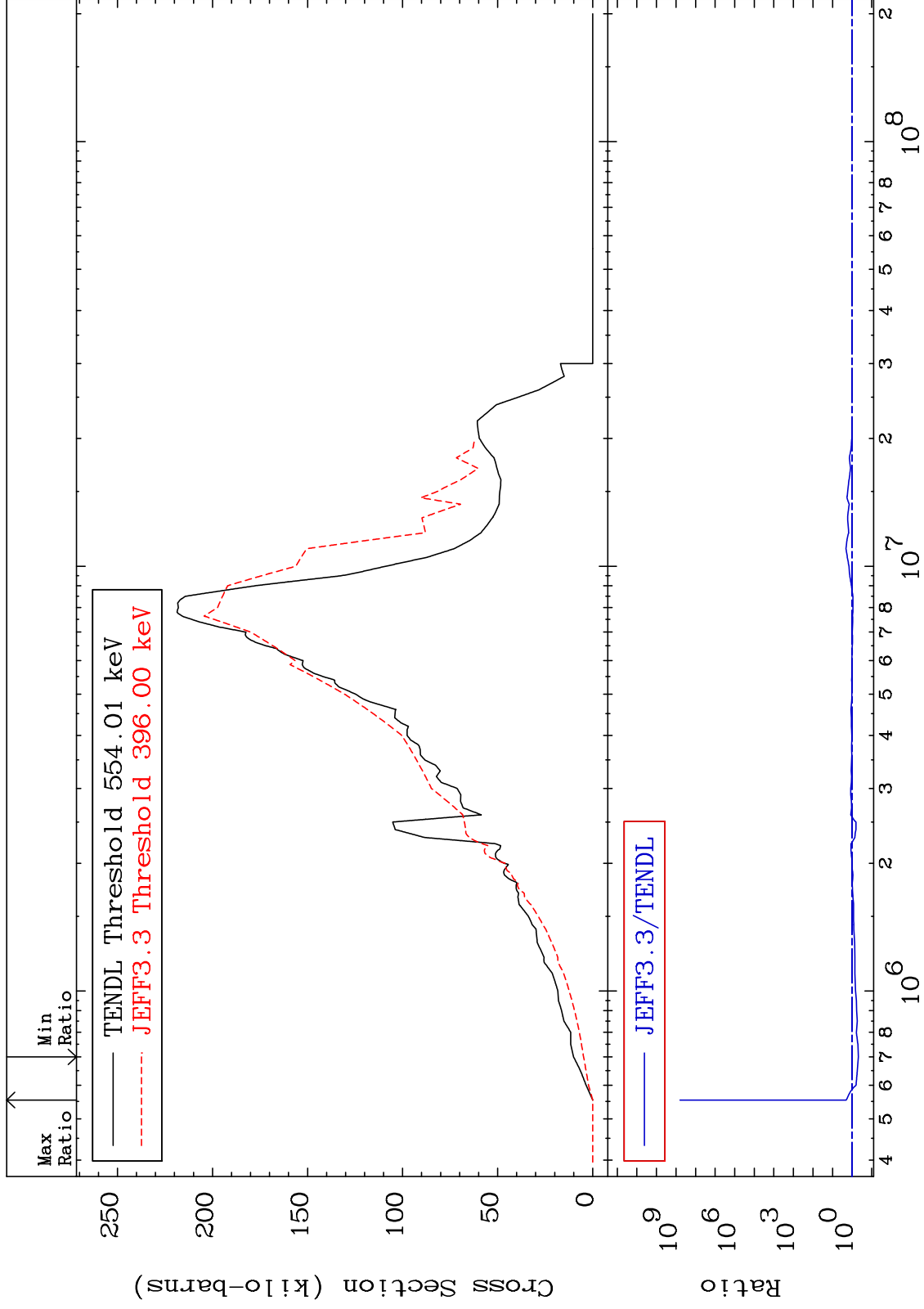




MAT 6237

Kerma inelastic (mt51-91)  
Cross Section

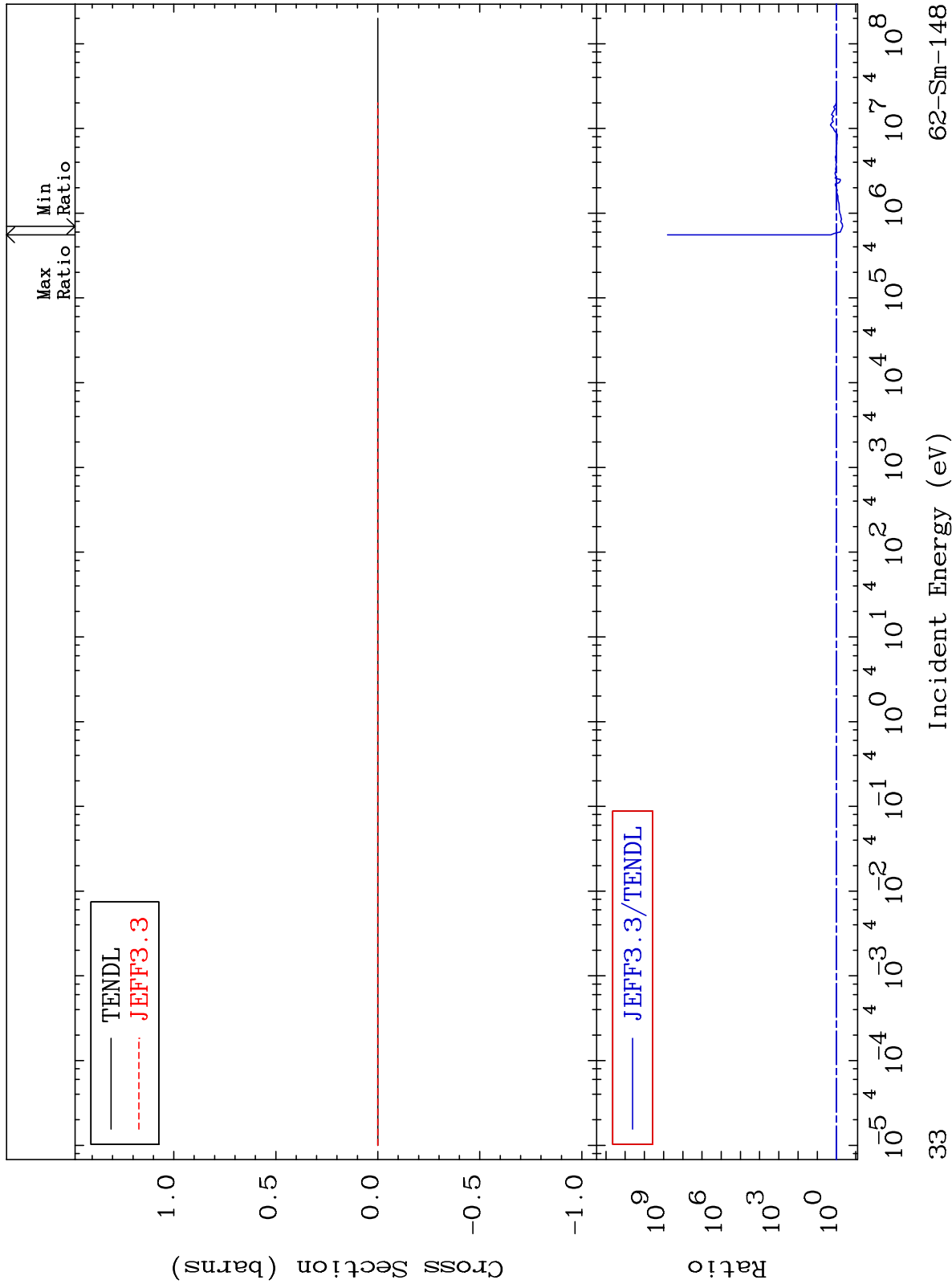
62-Sm-148  
-52.33 To 9999. %



MAT 6237

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

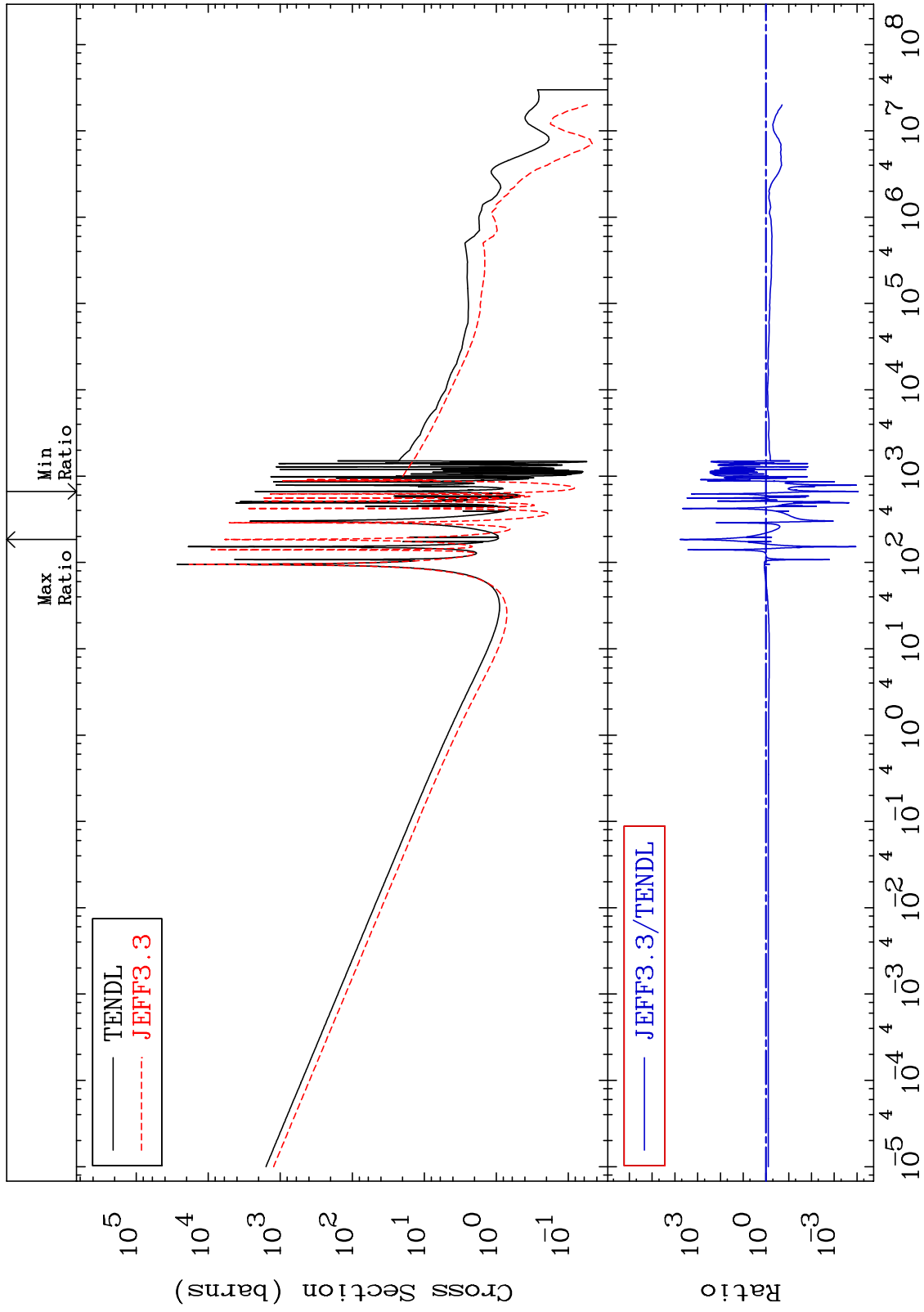
62-Sm-148  
-52.33 To 9999. %



MAT 6237

Kerma capture (mt102)  
Cross Section

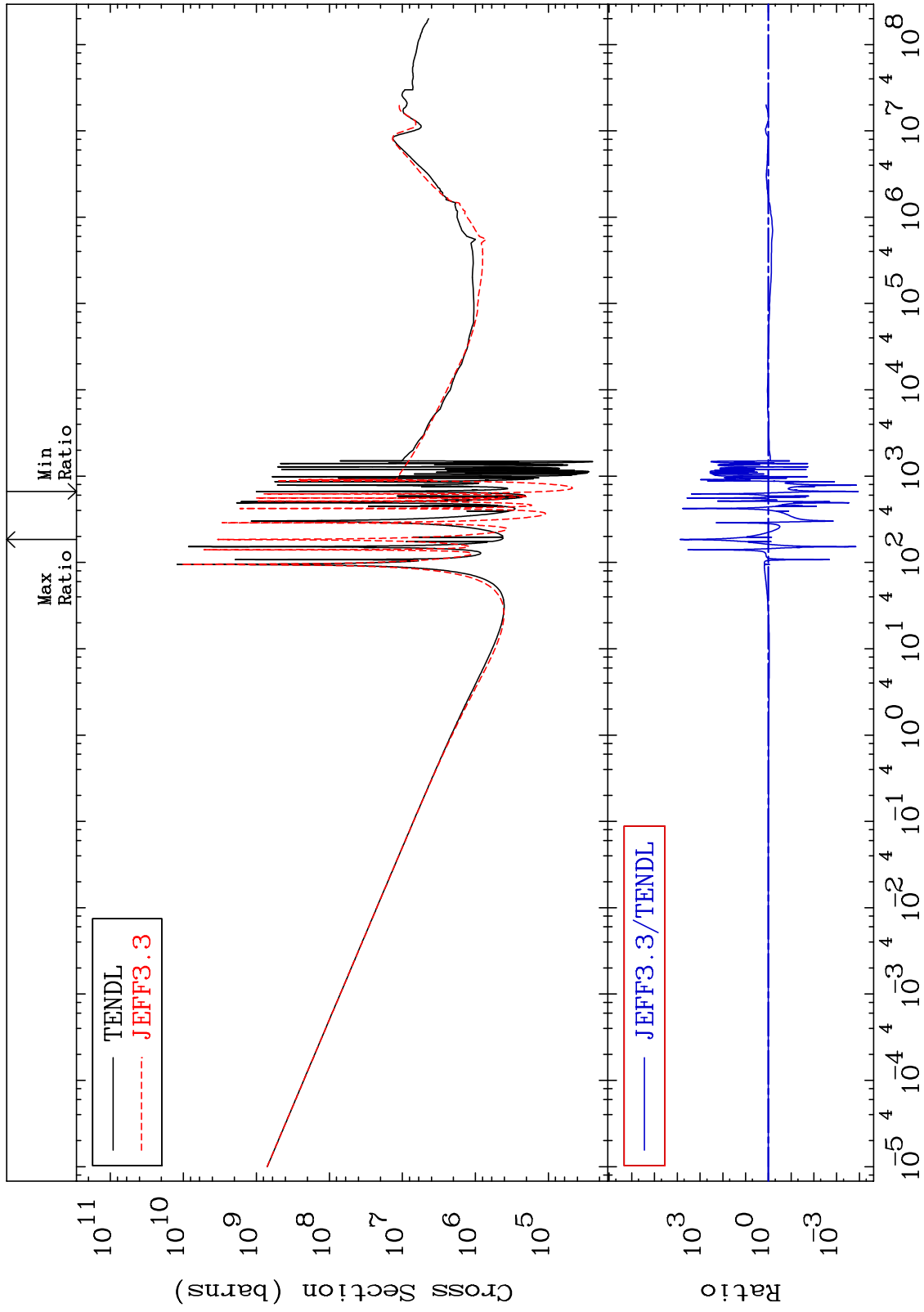
62-Sm-148  
-99.99 To 9999. %



MAT 6237

Total photon (eV-barns)  
Cross Section

62-Sm-148  
-99.99 To 9999. %



35

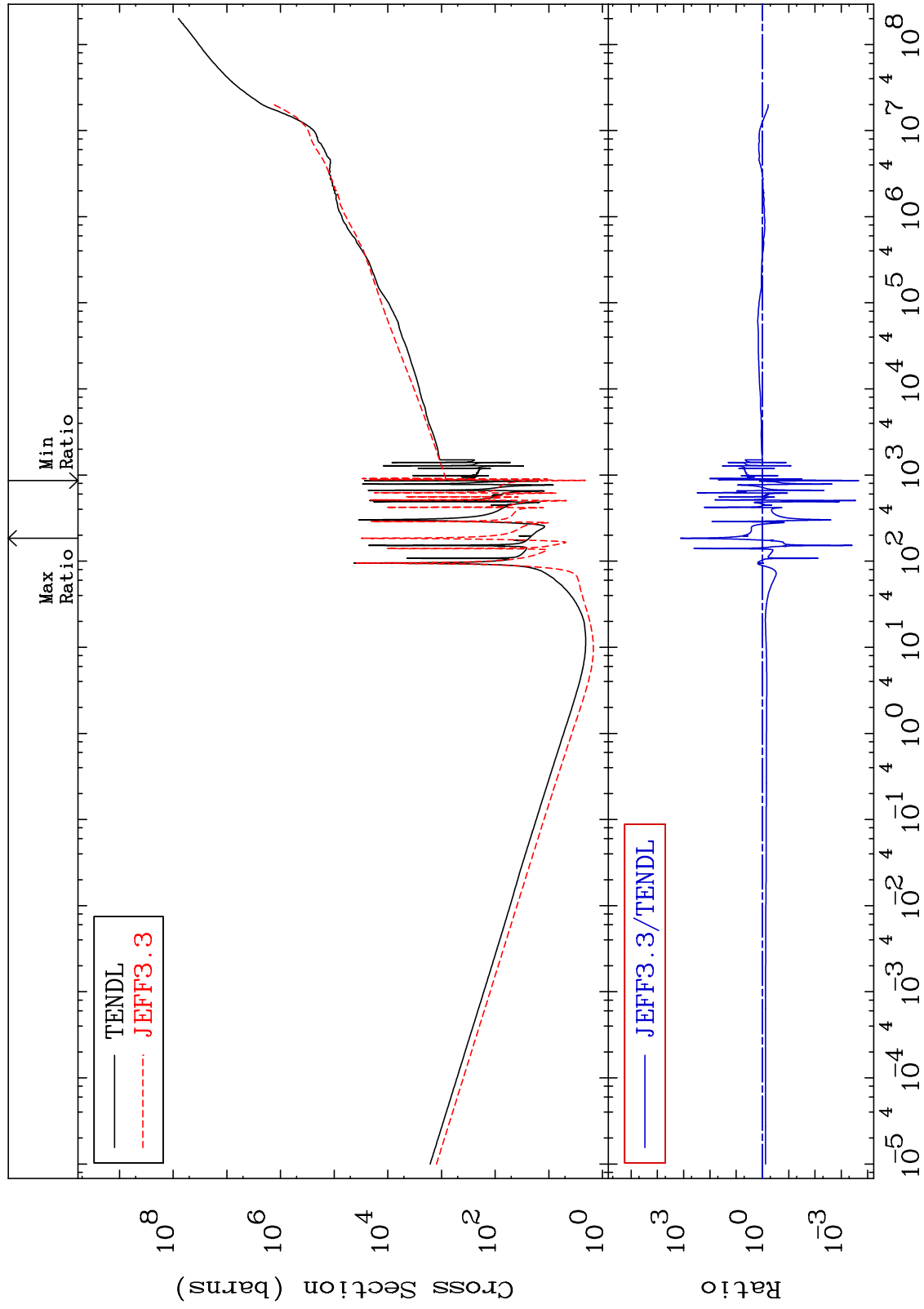
Incident Energy (eV)

62-Sm-148

MAT 6237

Total kinematic kerma (high limit)  
Cross Section

62-Sm-148  
-99.98 To 9999. %



36

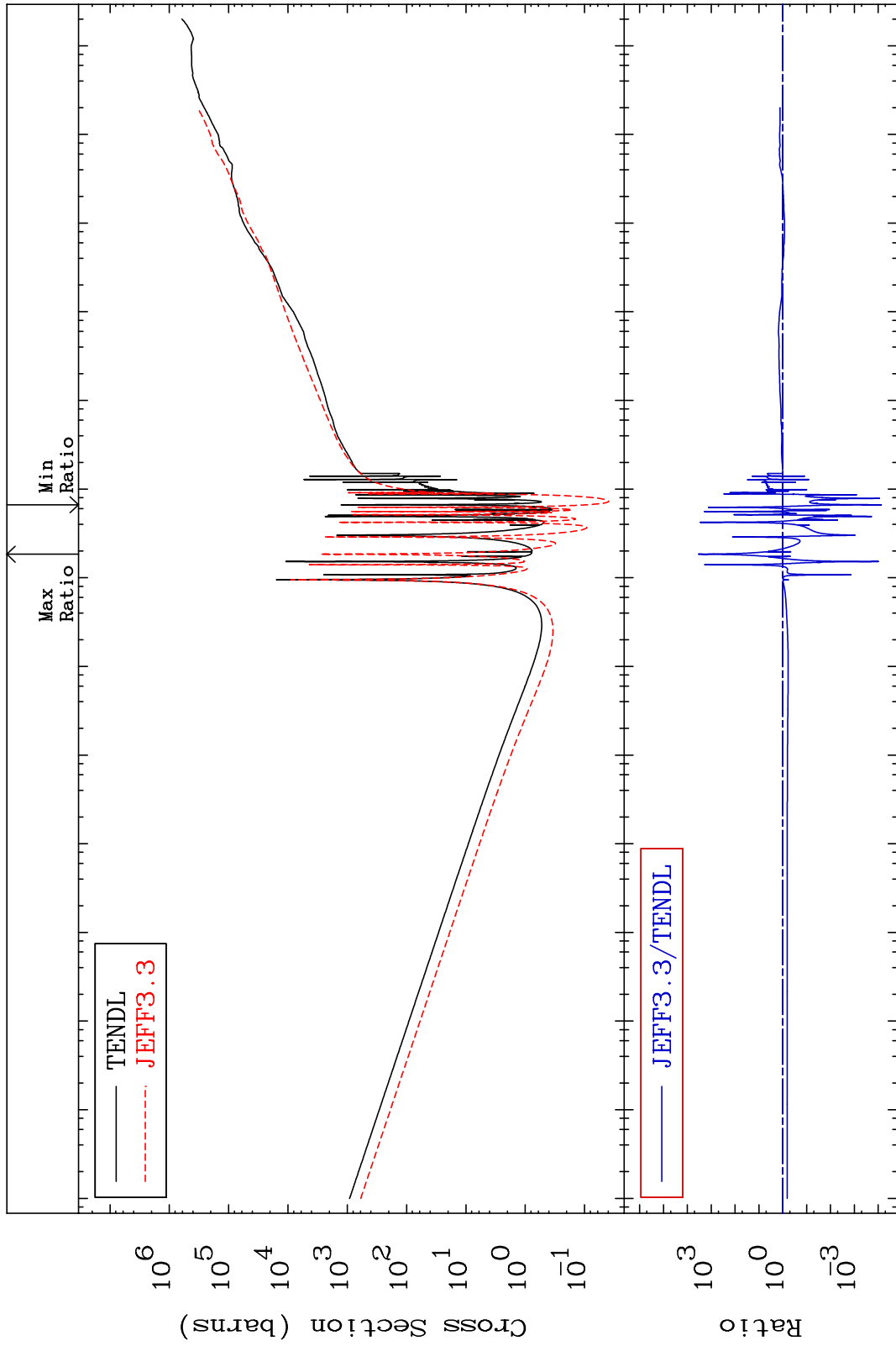
Incident Energy (eV)

62-Sm-148

MAT 6237

Dpa total (eV-barns)  
Cross Section

62-Sm-148  
-99.99 To 9999. %



37

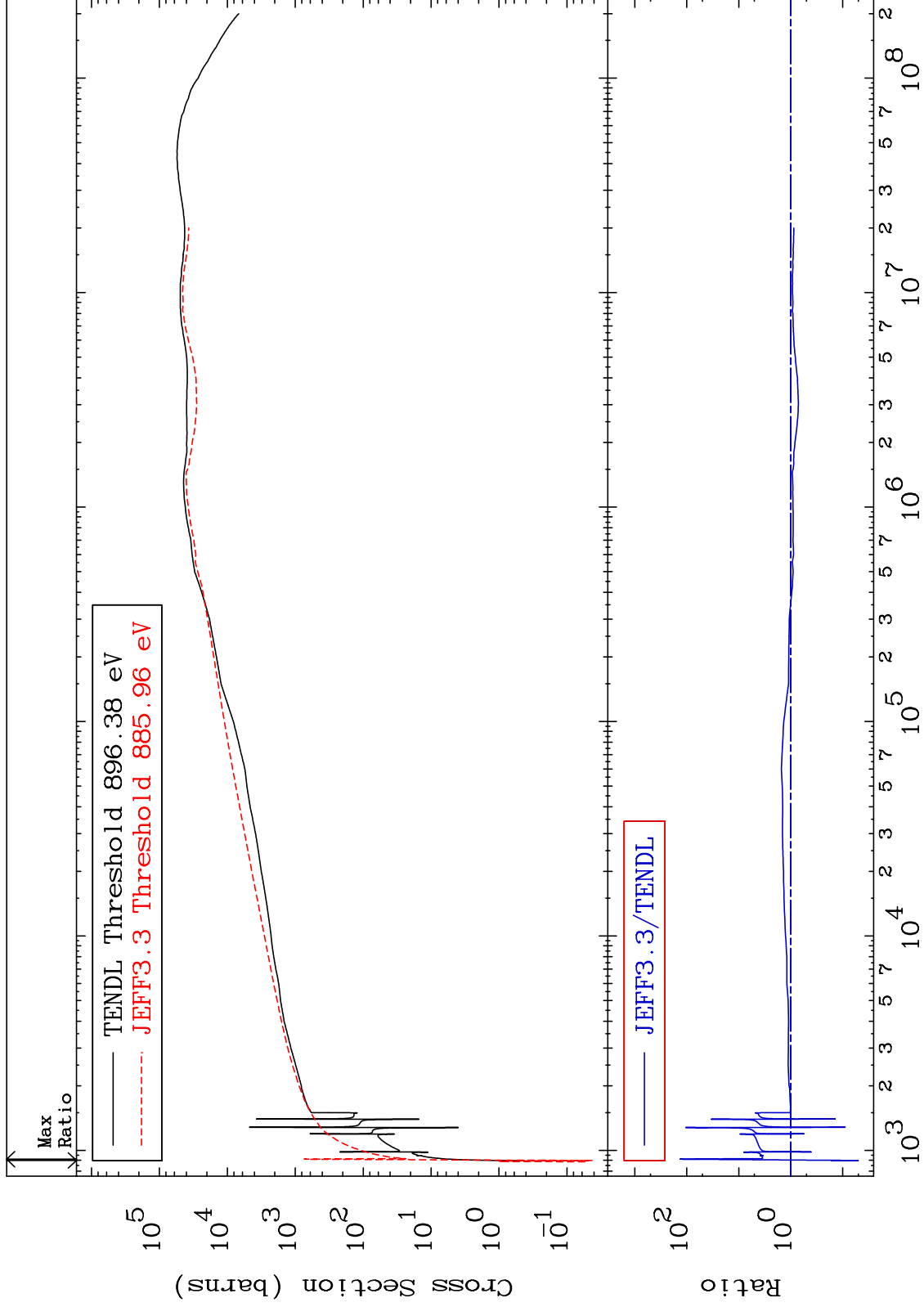
Incident Energy (eV)

62-Sm-148

MAT 6237

Dpa elastic (mt2)  
Cross Section

62-Sm-148  
-95.02 To 9999. %



38

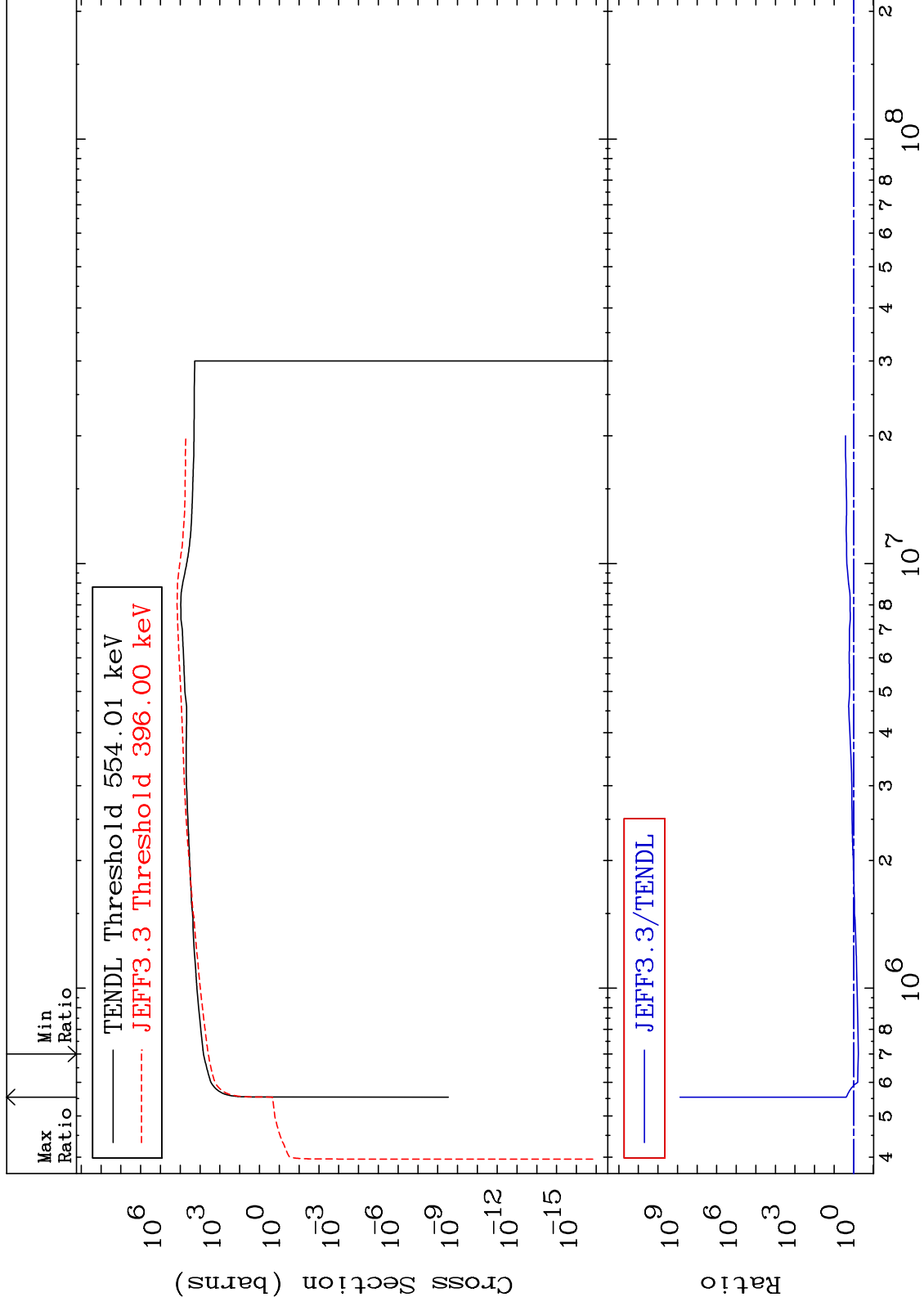
Incident Energy (eV)

62-Sm-148

MAT 6237

Dpa inelastic (mt51-91)  
Cross Section

62-Sm-148  
-42.37 To 9999. %





MAT 6237

Dpa disappearance (mt102 -120)  
Cross Section

62-Sm-148  
-99.99 To 9999. %

