

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

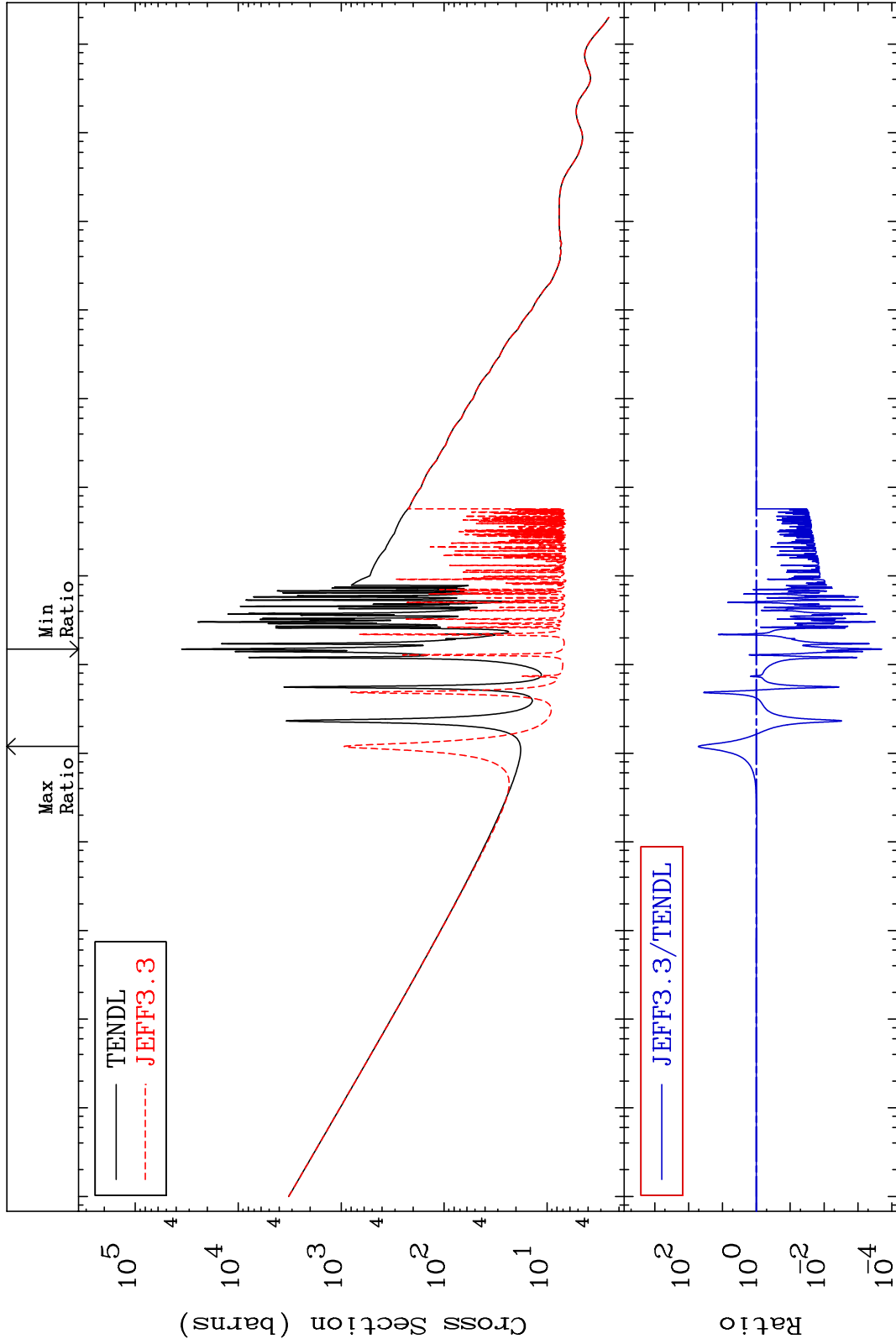
MAT 6719

Total

67-Ho-163

Cross Section

-99.98 To 5051. %



Incident Energy (eV)

67-Ho-163

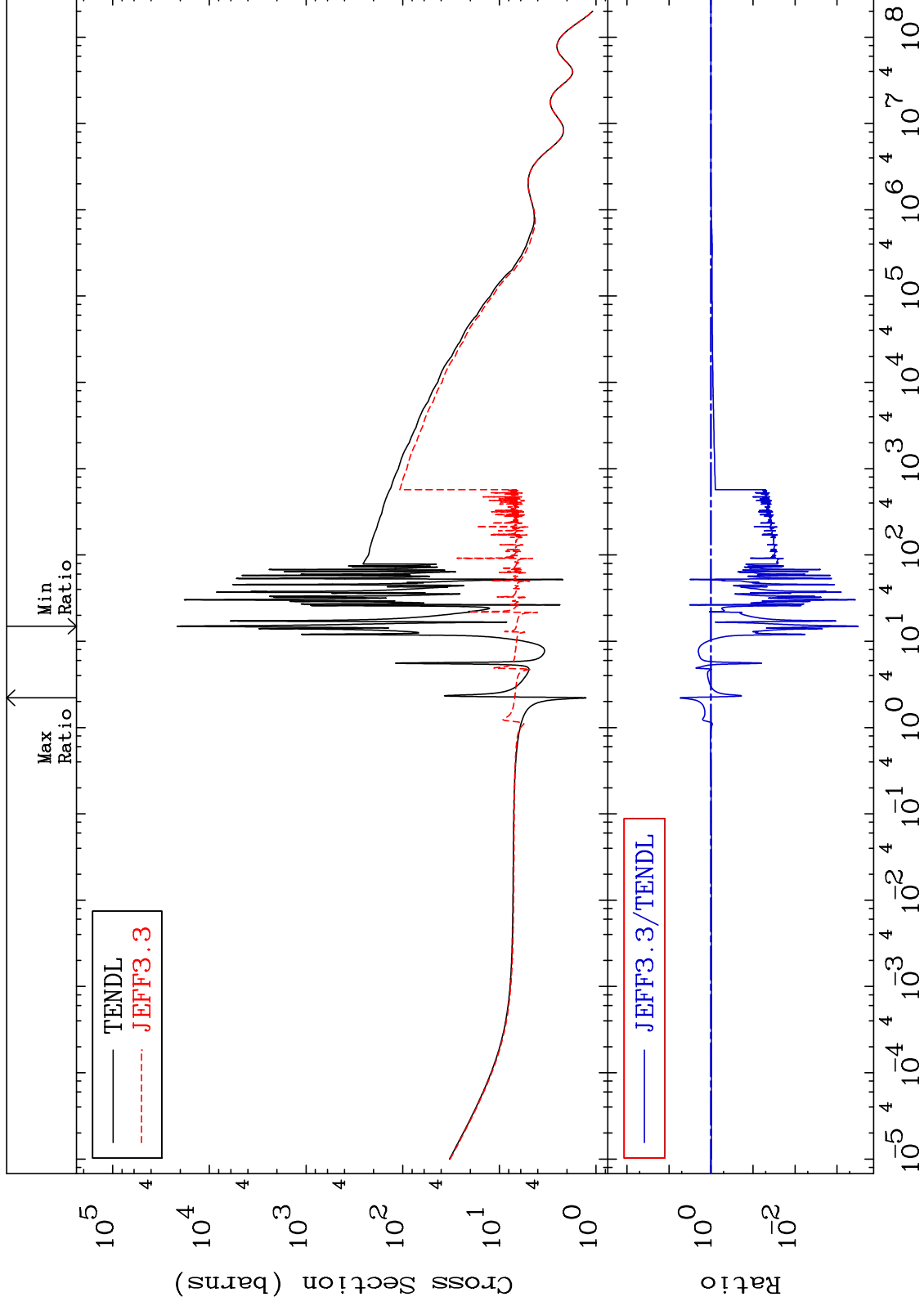
MAT 6719

Elastic

67-Ho-163

Cross Section

-99.97 To 447.1 %



2

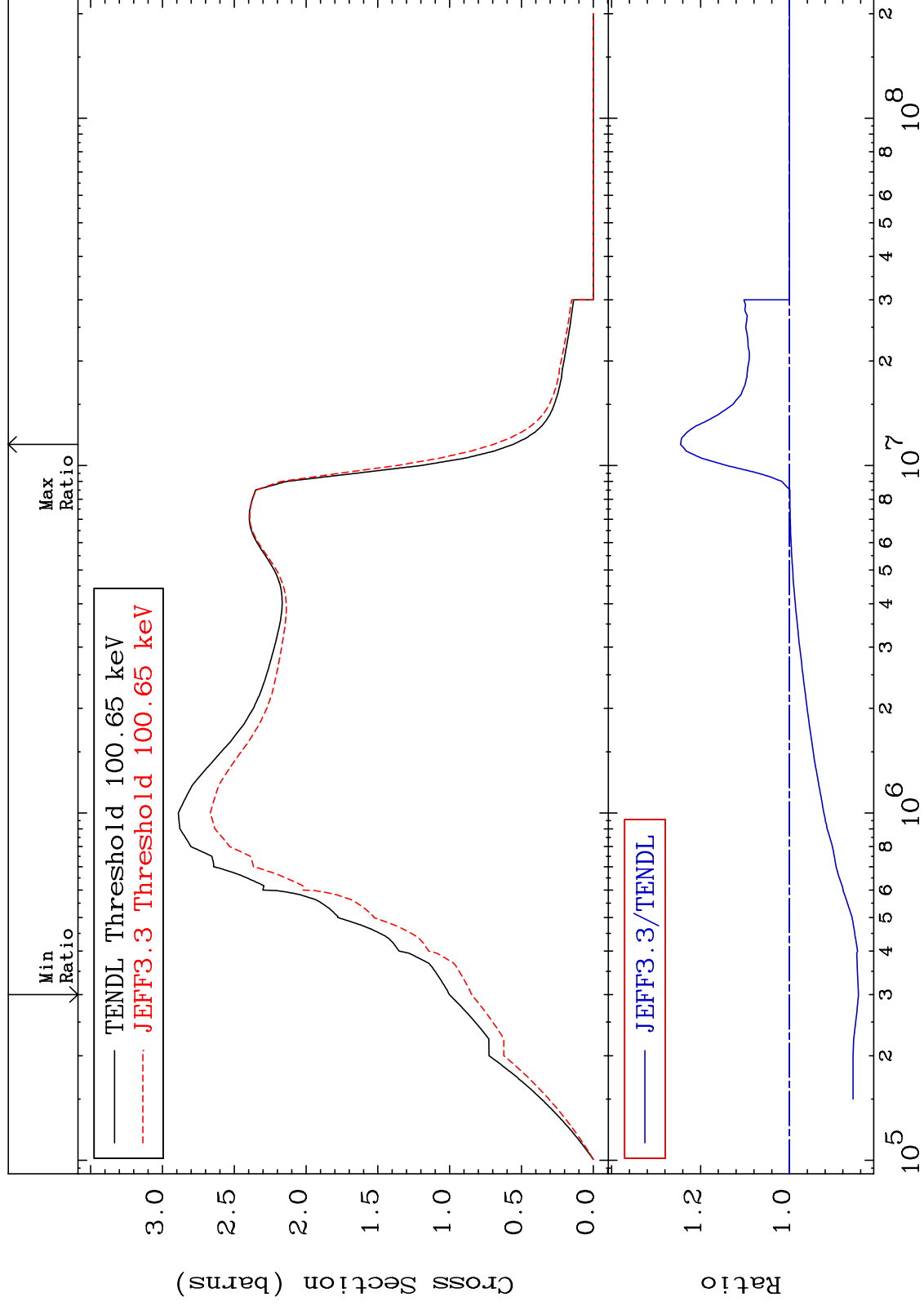
Incident Energy (eV)

67-Ho-163

MAT 6719

Inelastic  
Cross Section

67-Ho-163  
-15.52 To 24.52 %



Incident Energy (eV)

67-Ho-163

3

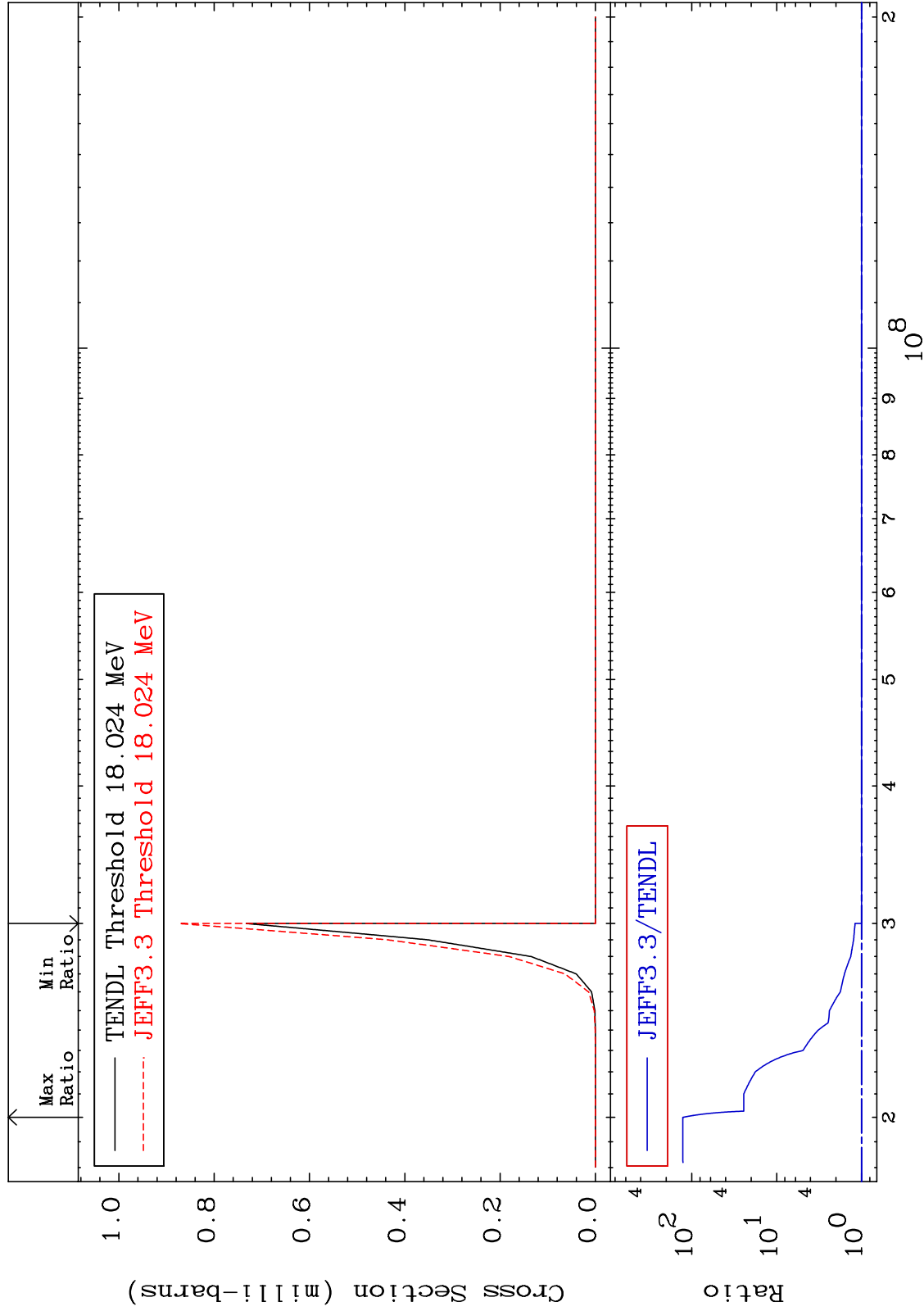
MAT 6719

(n,2n) d

67-Ho-163

Cross Section

0.000 To 9999. %



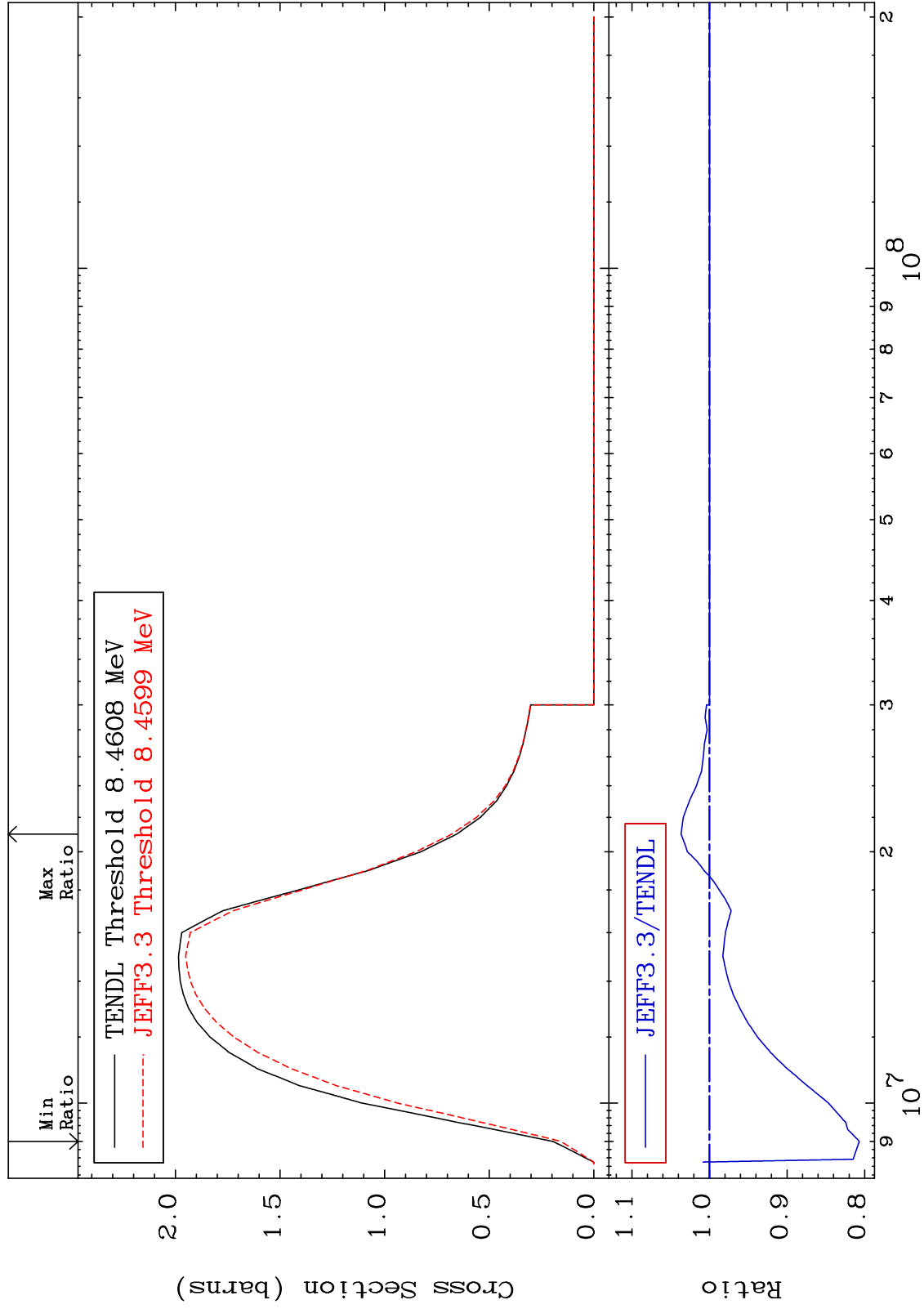
MAT 6719

(n, 2n)

67-Ho-163

Cross Section

-19.31 To 3.660 %



67-Ho-163

Incident Energy (eV)

5

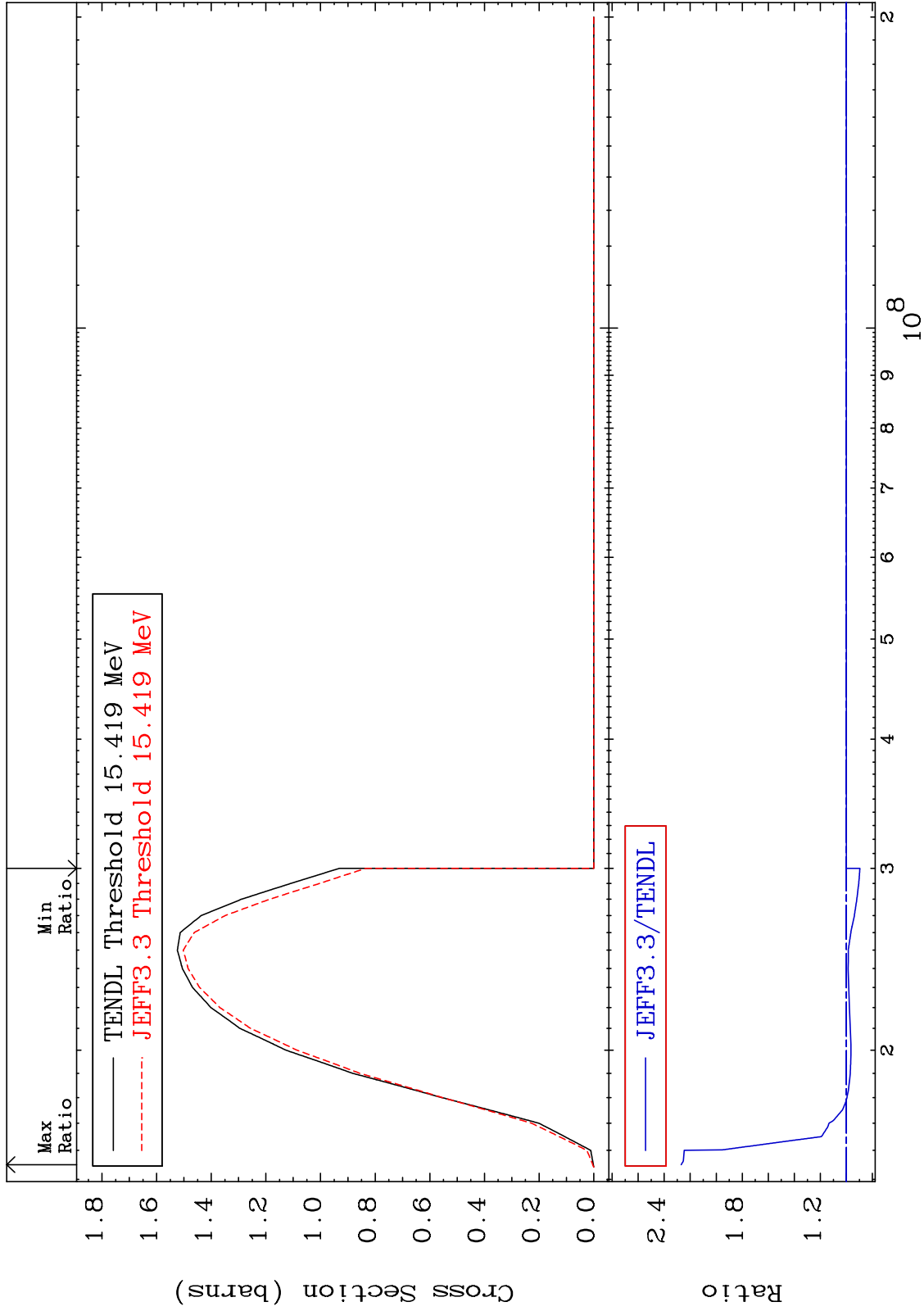
MAT 6719

(n, 3n)

67-Ho-163

Cross Section

-10.39 To 126.9 %



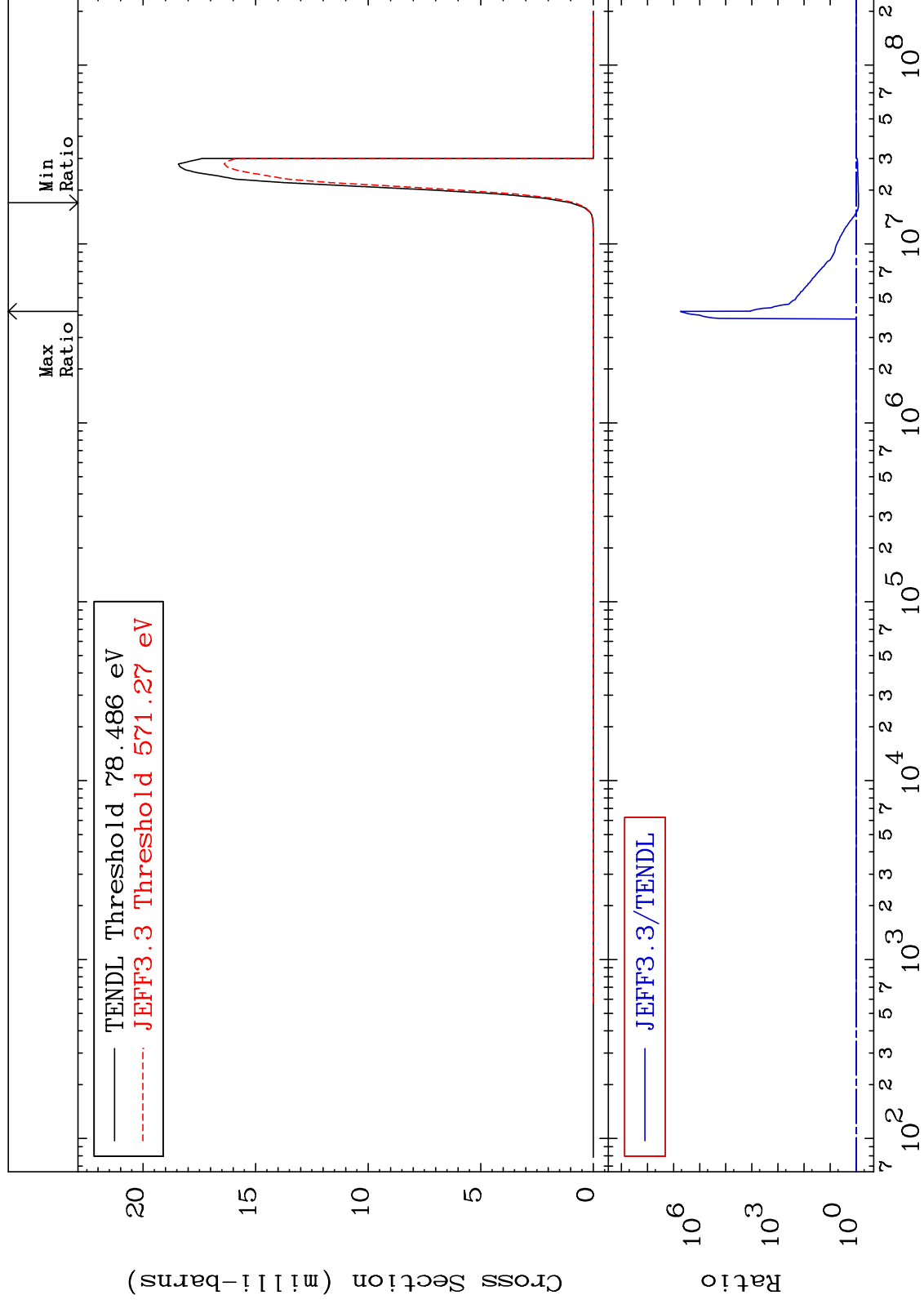
MAT 6719

(n, n')  $\alpha$

Cross Section

67-Ho-163

-18.34 To 9999. %



Incident Energy (eV)

67-Ho-163

7



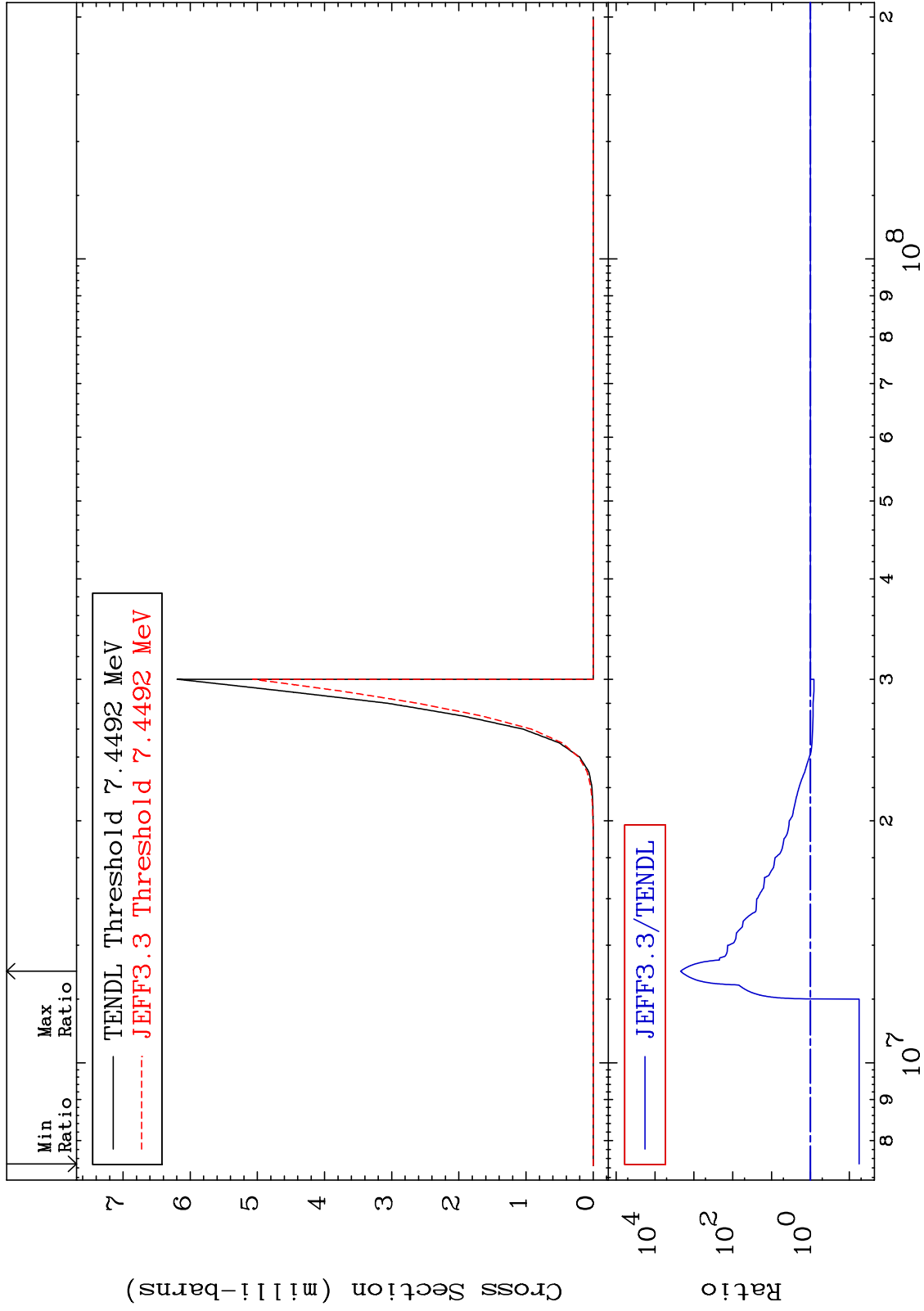
MAT 6719

(n,2n)  $\alpha$

67-Ho-163

Cross Section

-94.40 To 9999. %



8

Incident Energy (eV)

67-Ho-163

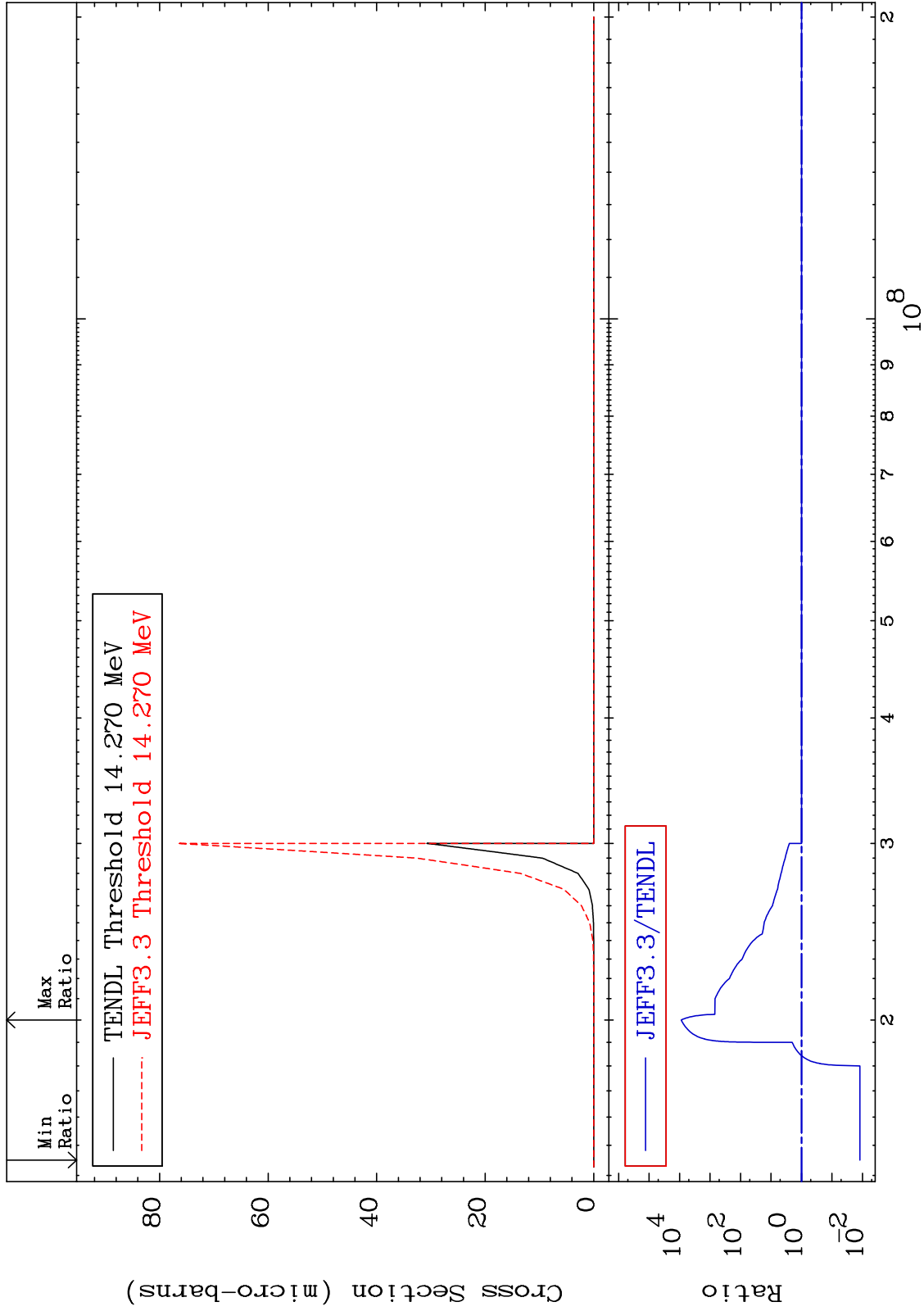
MAT 6719

(n,3n)  $\alpha$

67-Ho-163

Cross Section

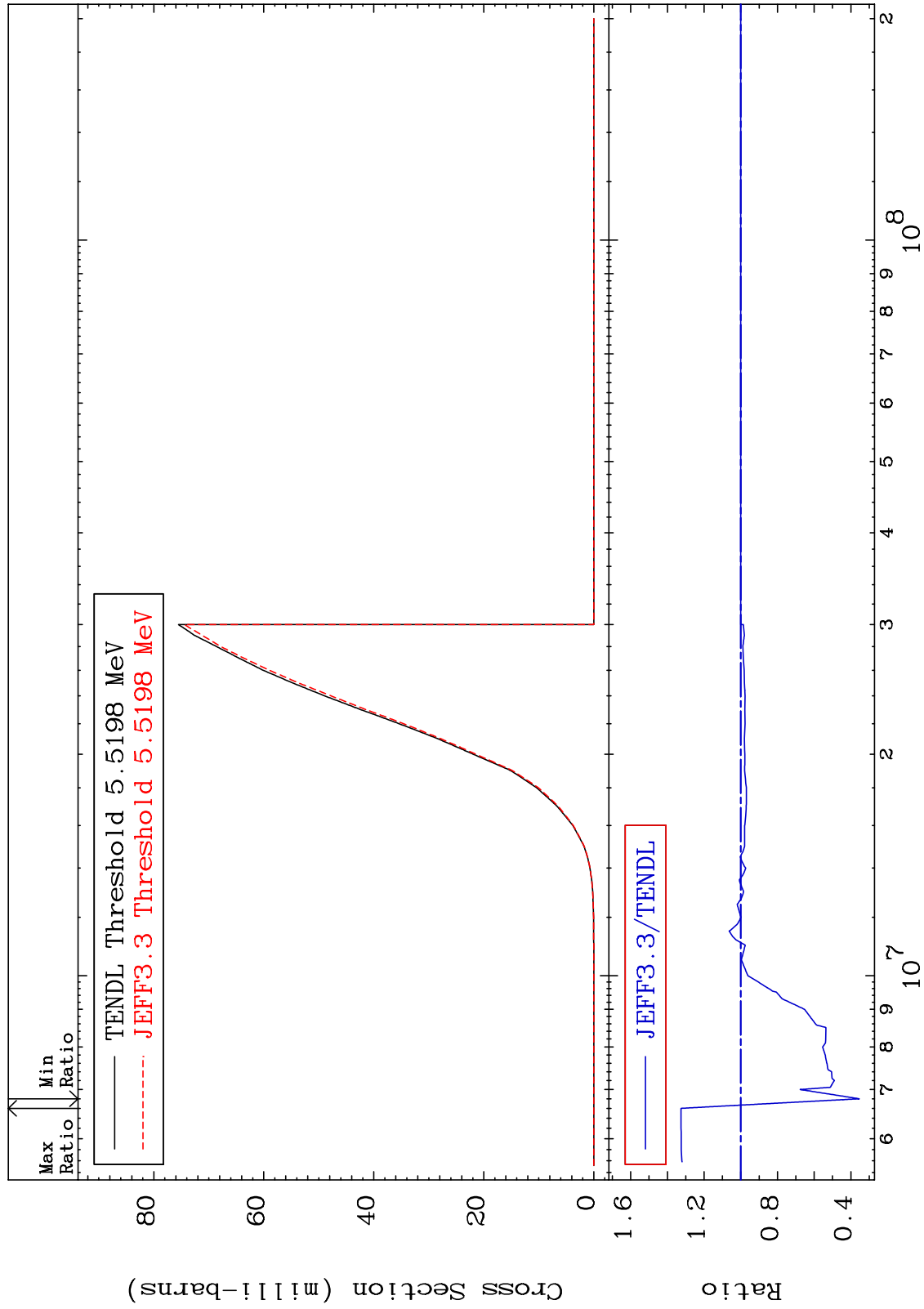
-98.79 To 9999. %



MAT 6719

(n,n') p  
Cross Section

67-Ho-163  
-64.60 To 32.55 %



10

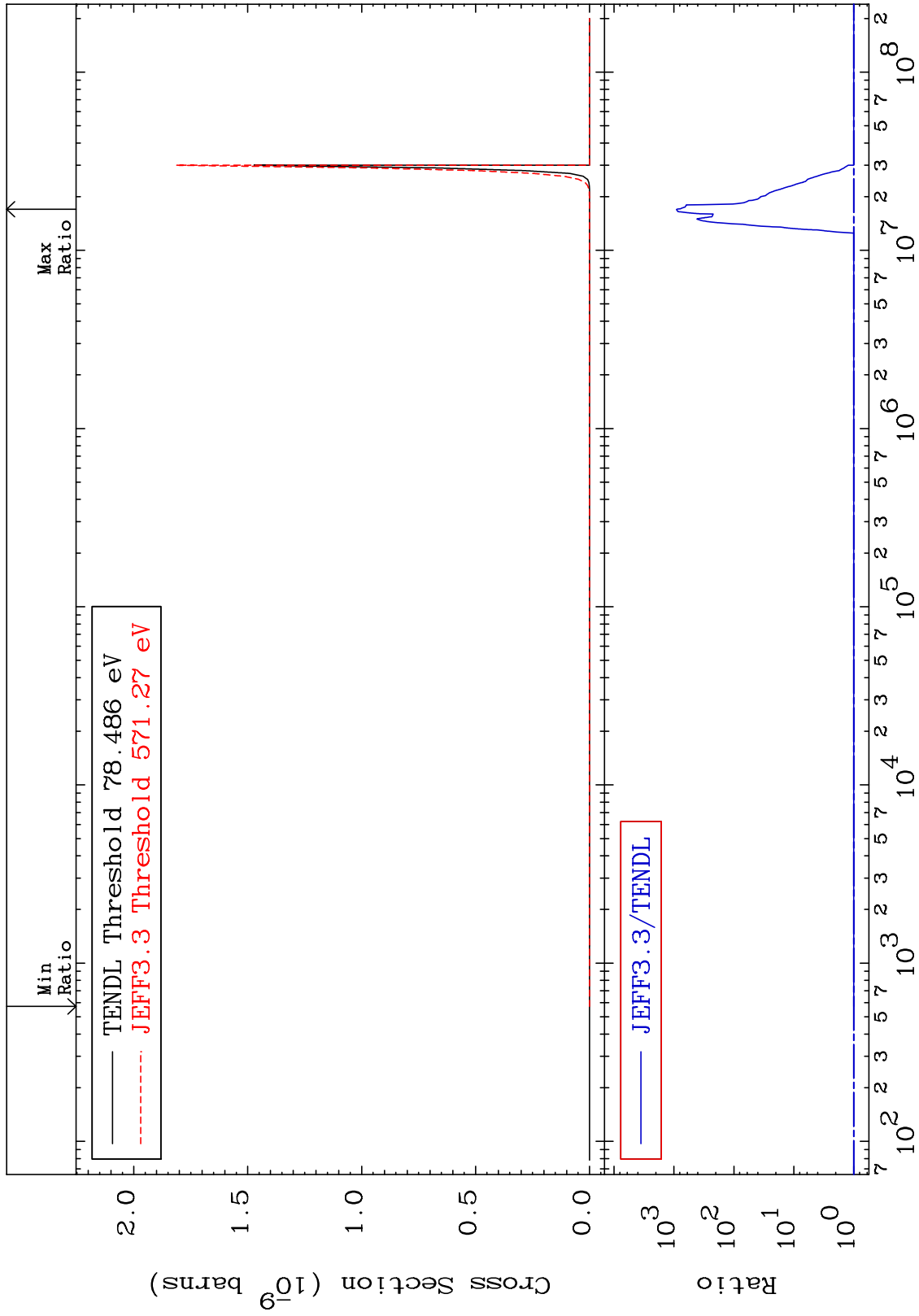
Incident Energy (eV)

67-Ho-163

MAT 6719

(n, n')  $2\alpha$   
Cross Section

67-Ho-163  
To 9999. %



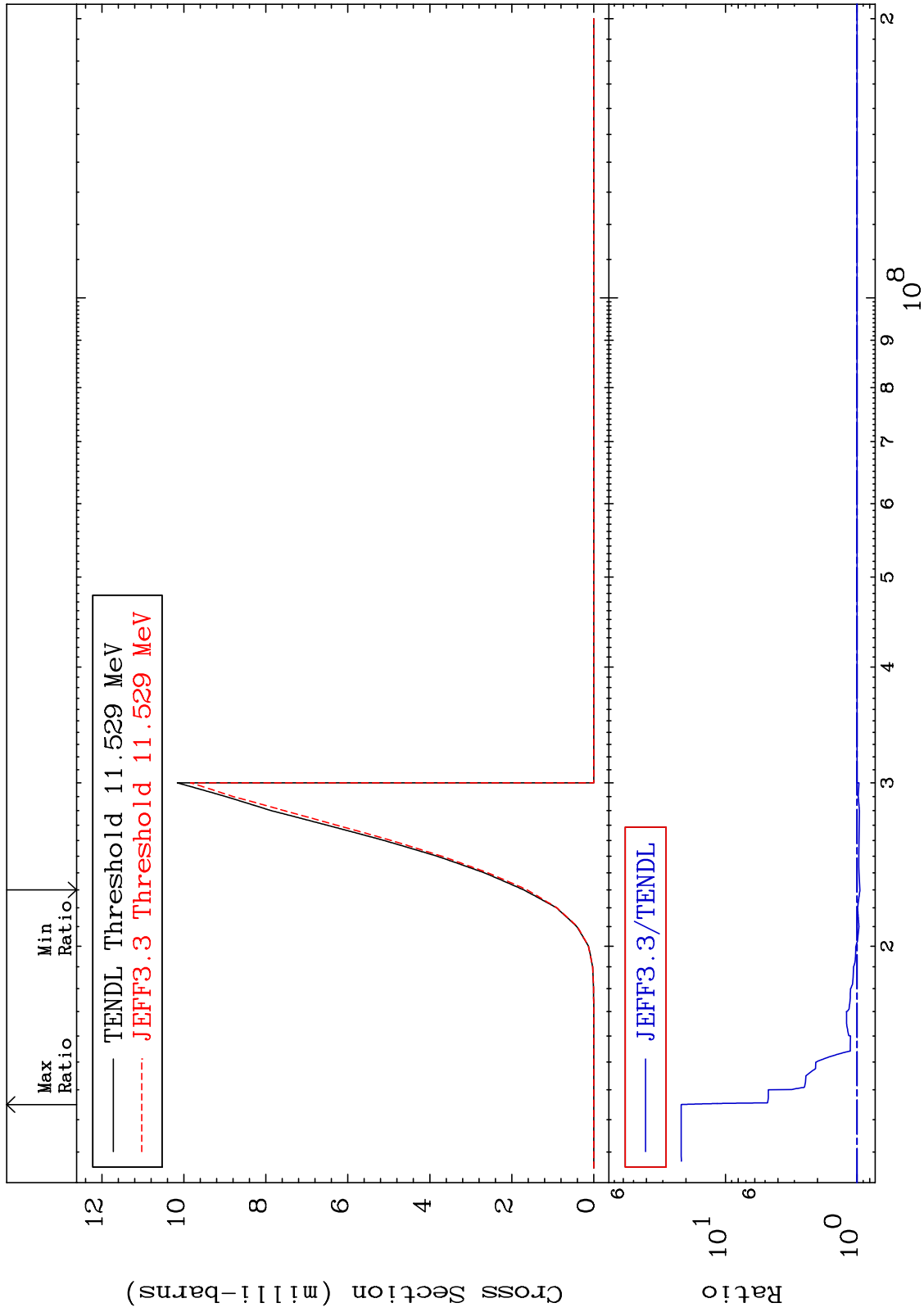
MAT 6719

(n, n') d

67-Ho-163

Cross Section

-4.920 To 2073. %



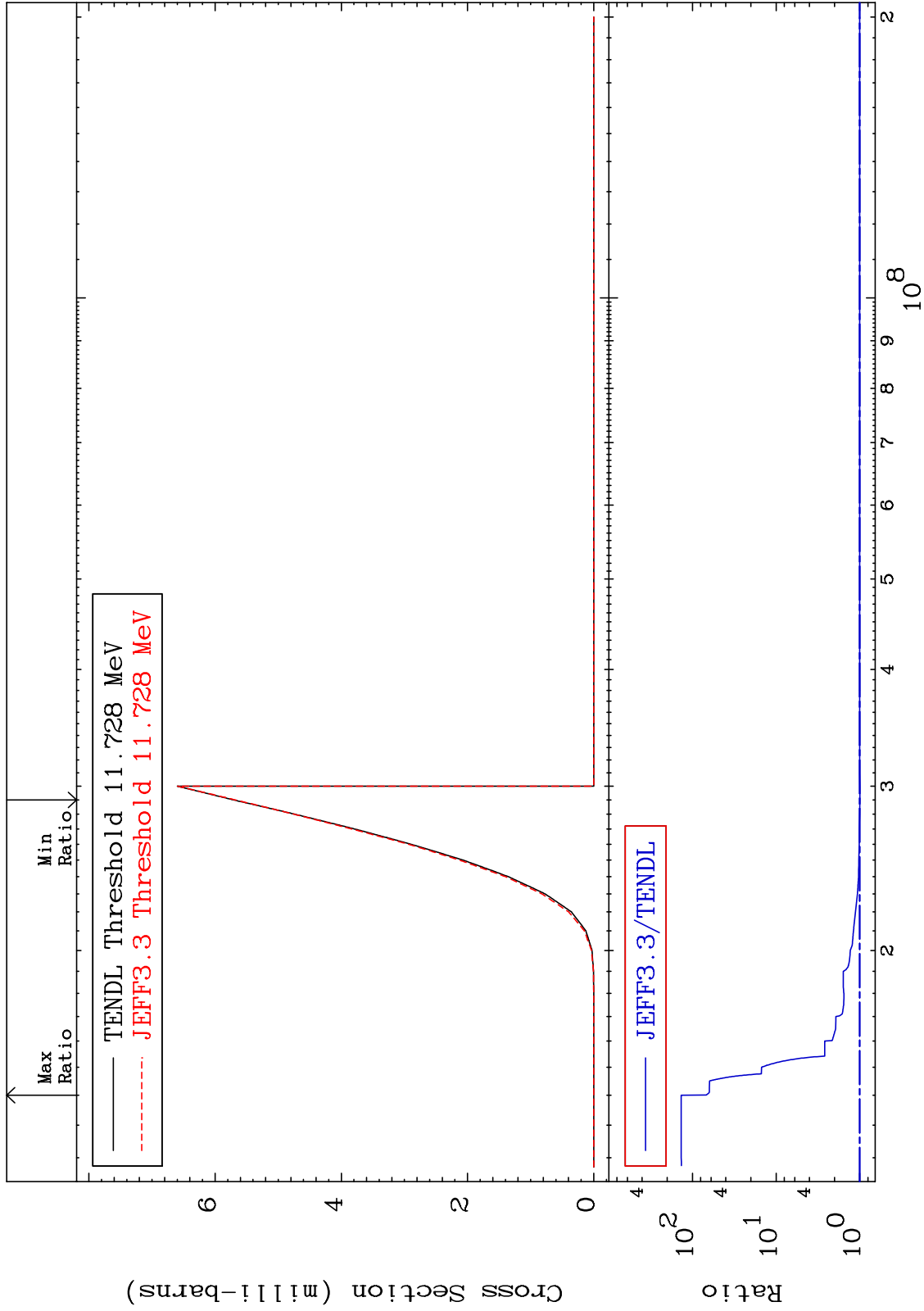
MAT 6719

(n,n') t

67-Ho-163

Cross Section

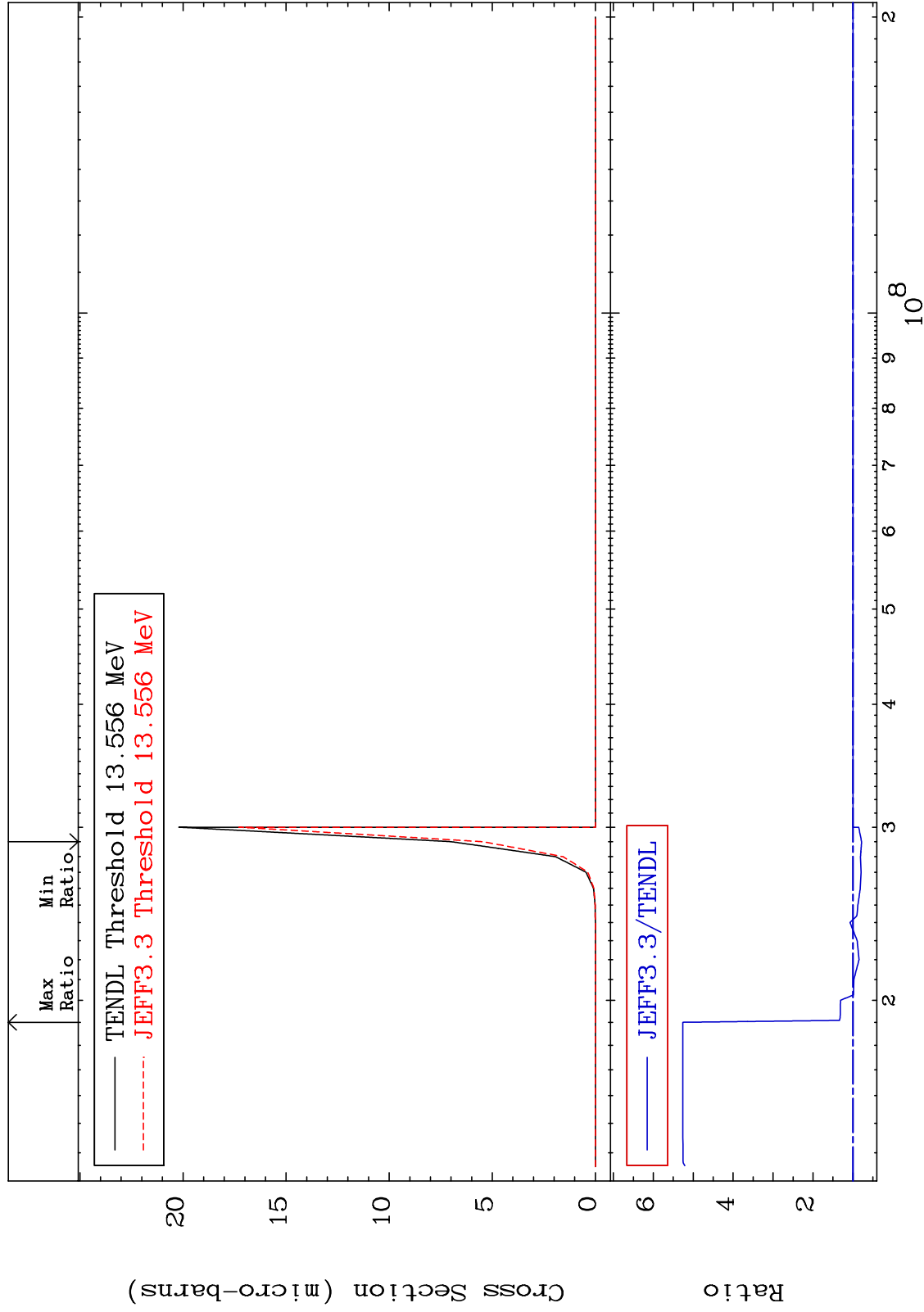
-0.458 To 9999. %



MAT 6719

(n, n') He-3  
Cross Section

67-Ho-163  
-21.69 To 425.9 %



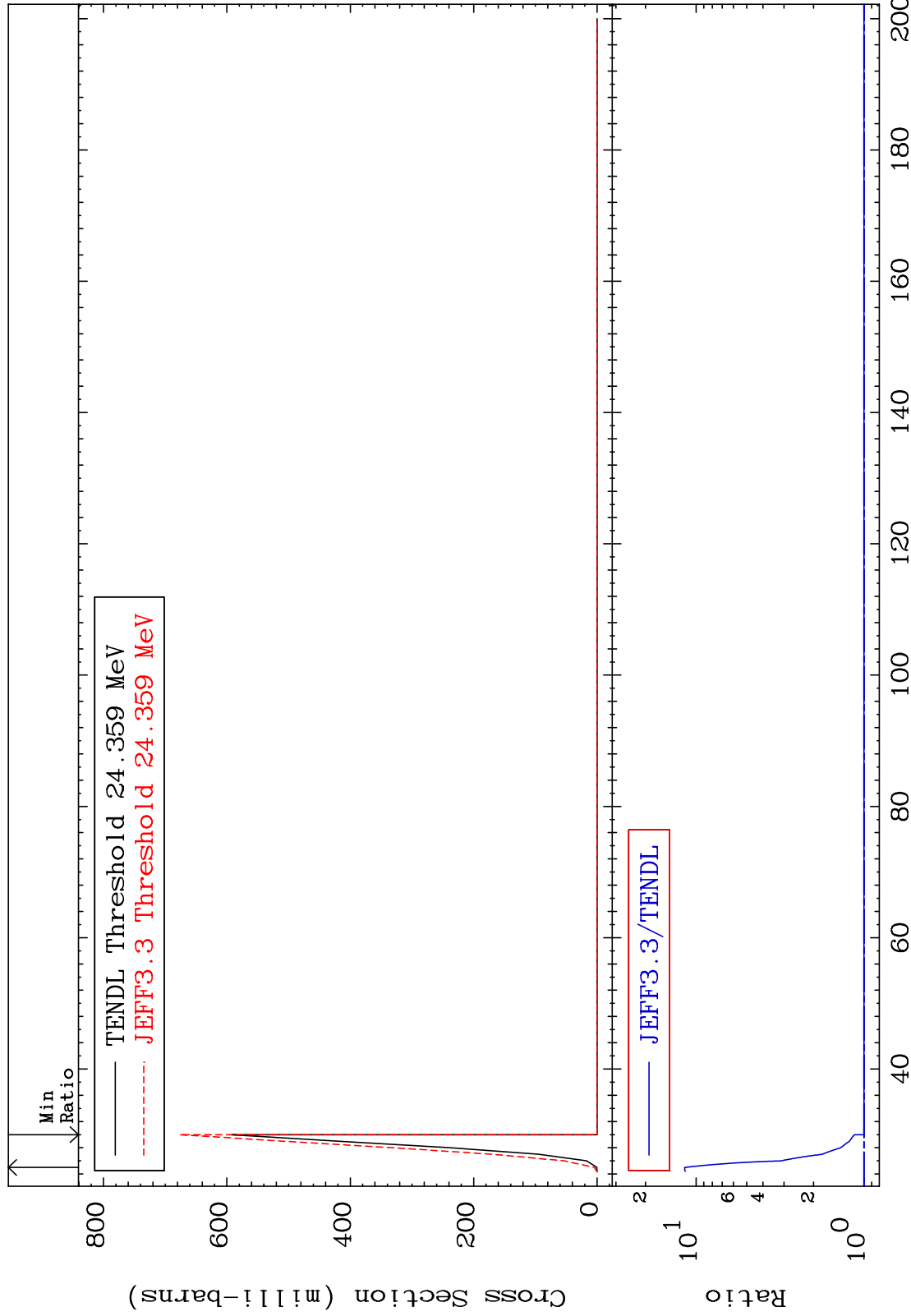
MAT 6719

(n, 4n)

67-Ho-163

Cross Section

0.000 To 1068. %

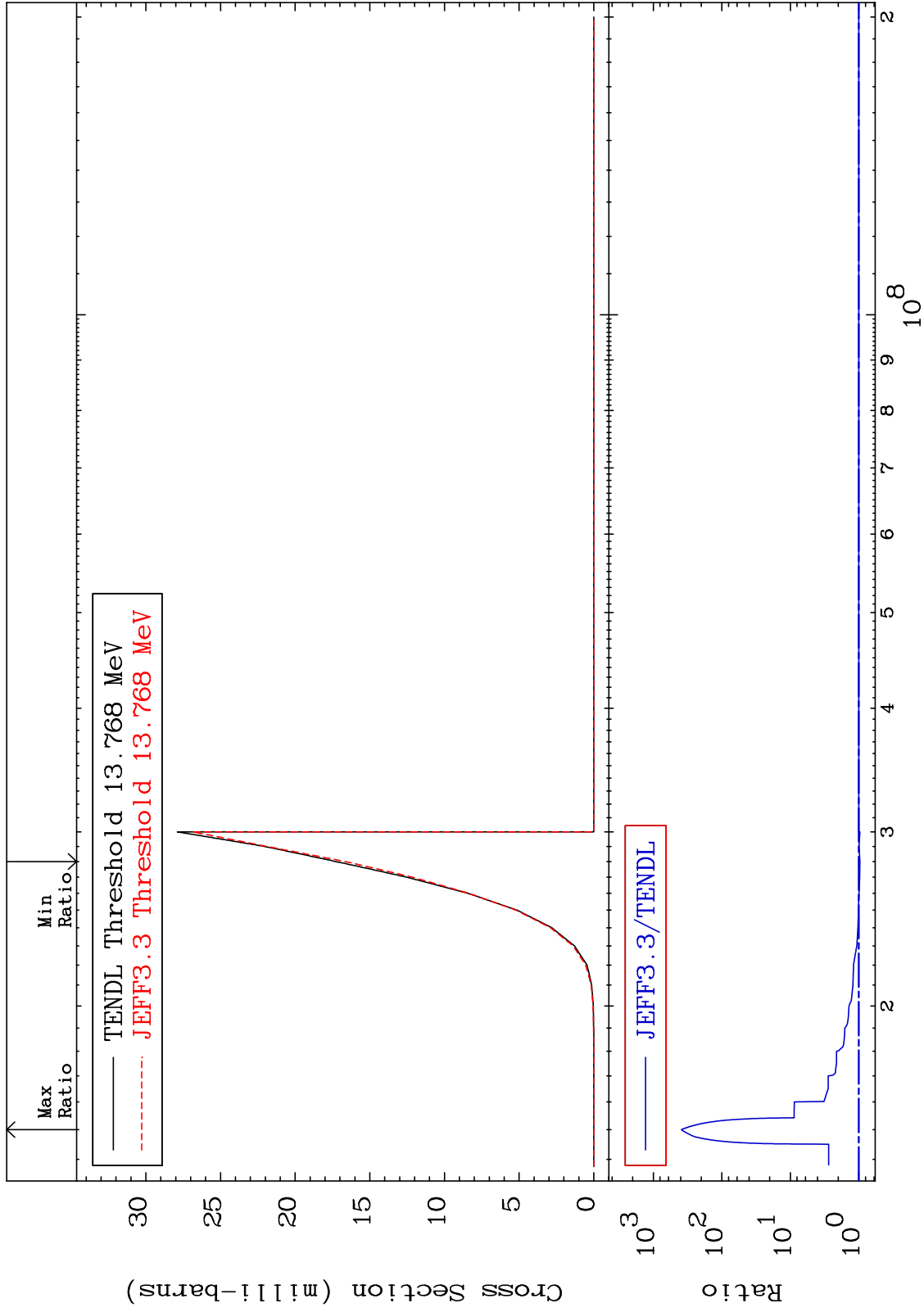




MAT 6719

(n,2n) p  
Cross Section

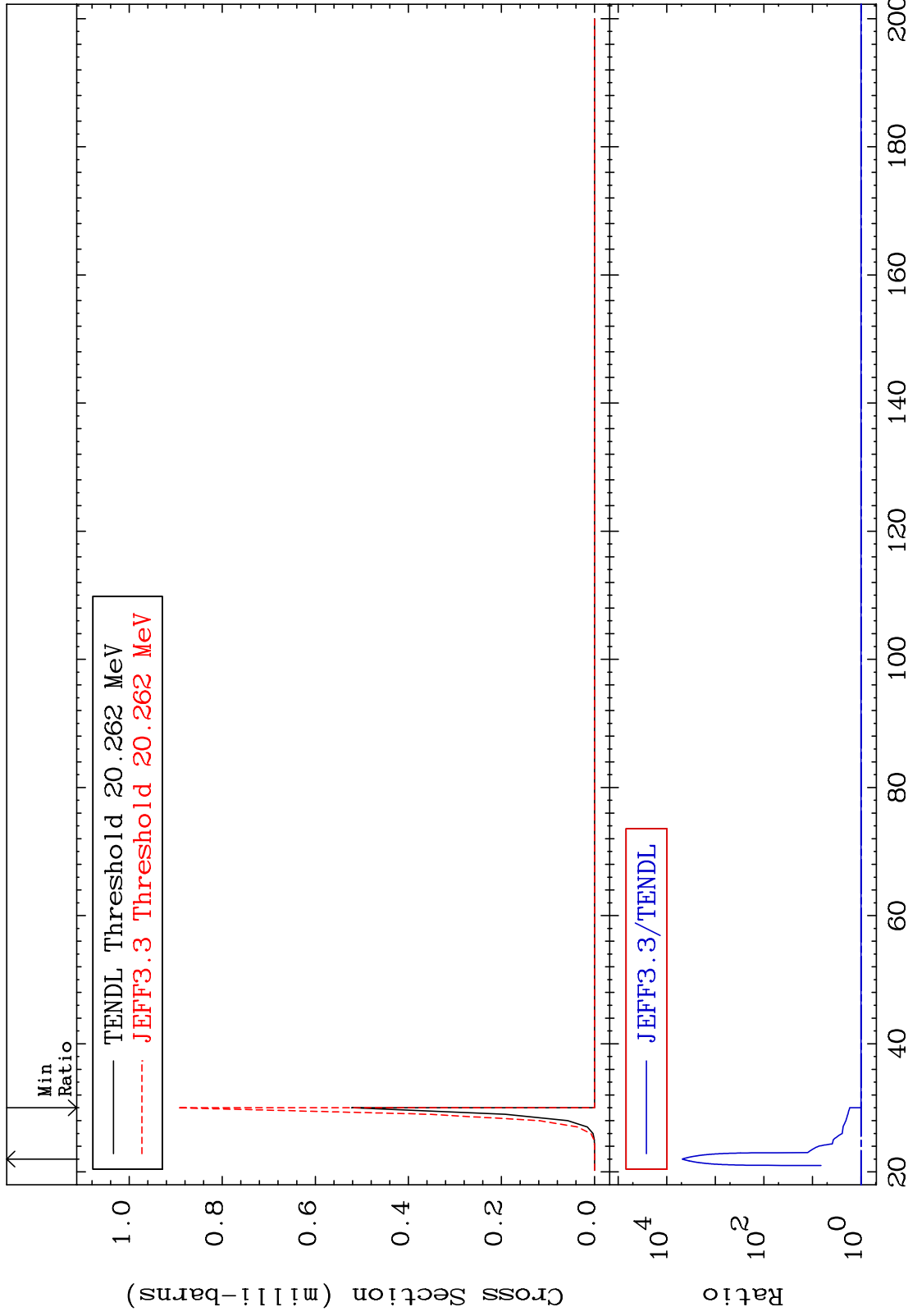
67-Ho-163  
-3.659 To 9999. %



MAT 6719

(n,3n) p  
Cross Section

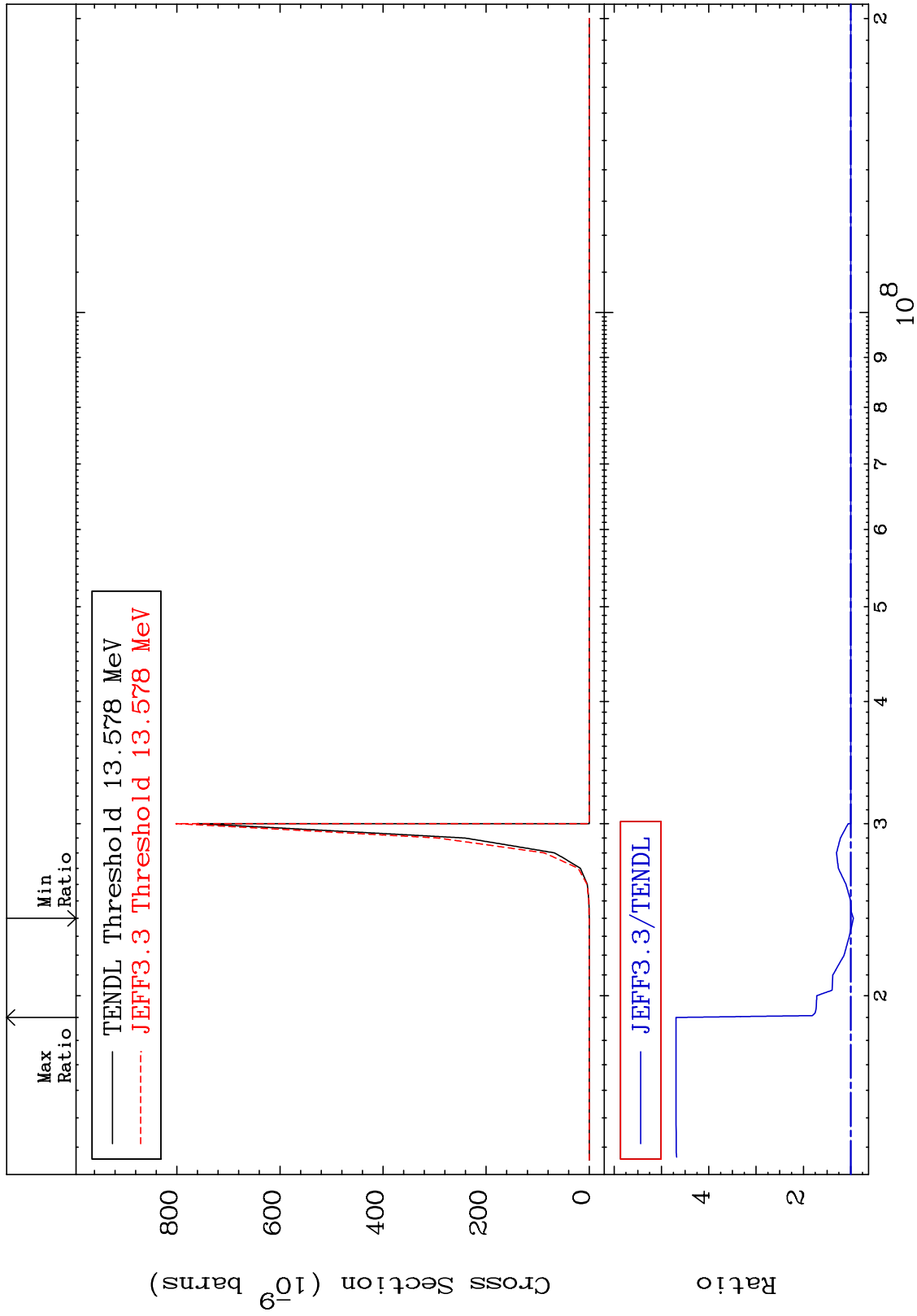
67-Ho-163  
0.000 To 9999. %



MAT 6719

(n,2n) p  
Cross Section

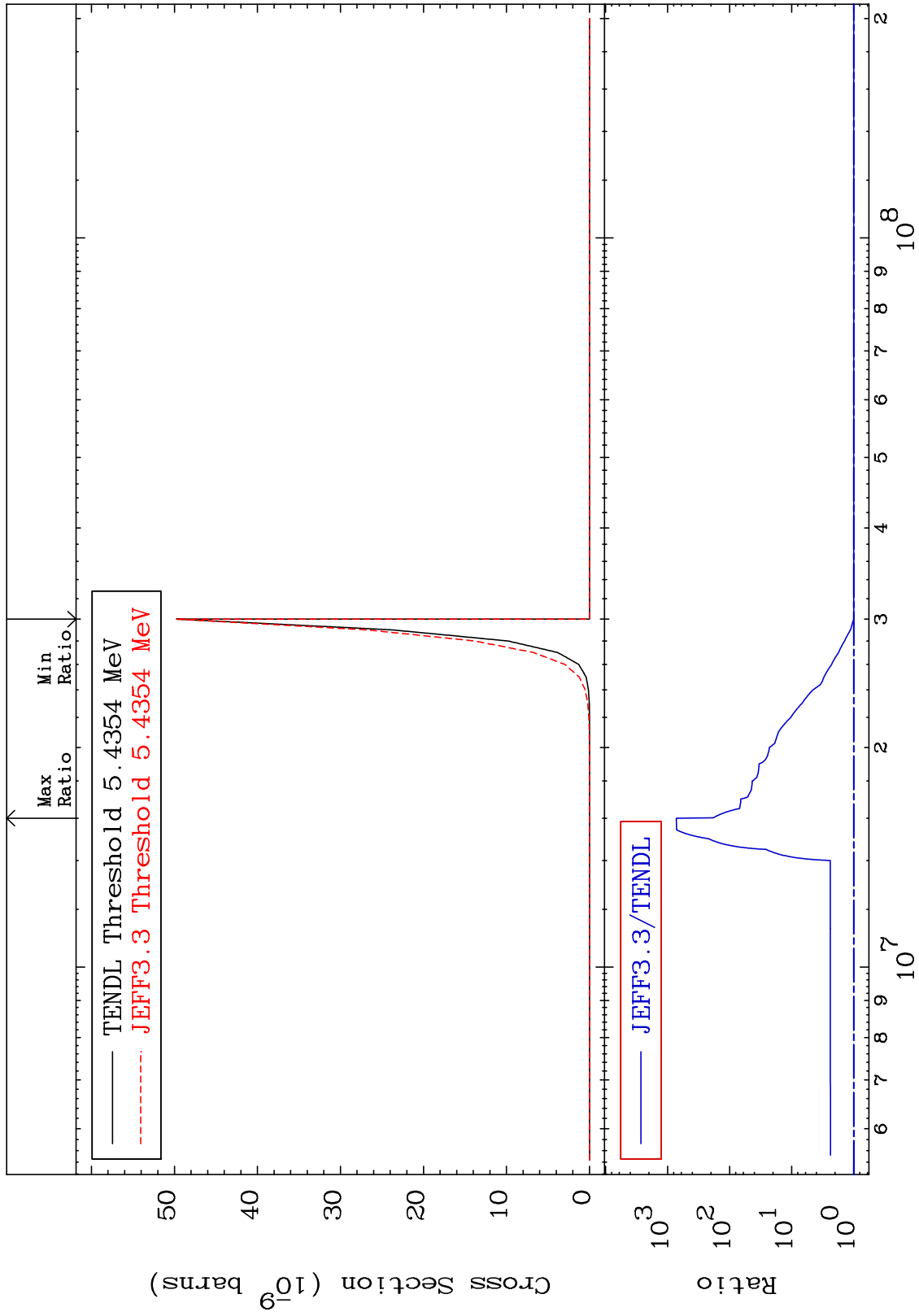
67-Ho-163  
-5.703 To 369.1 %



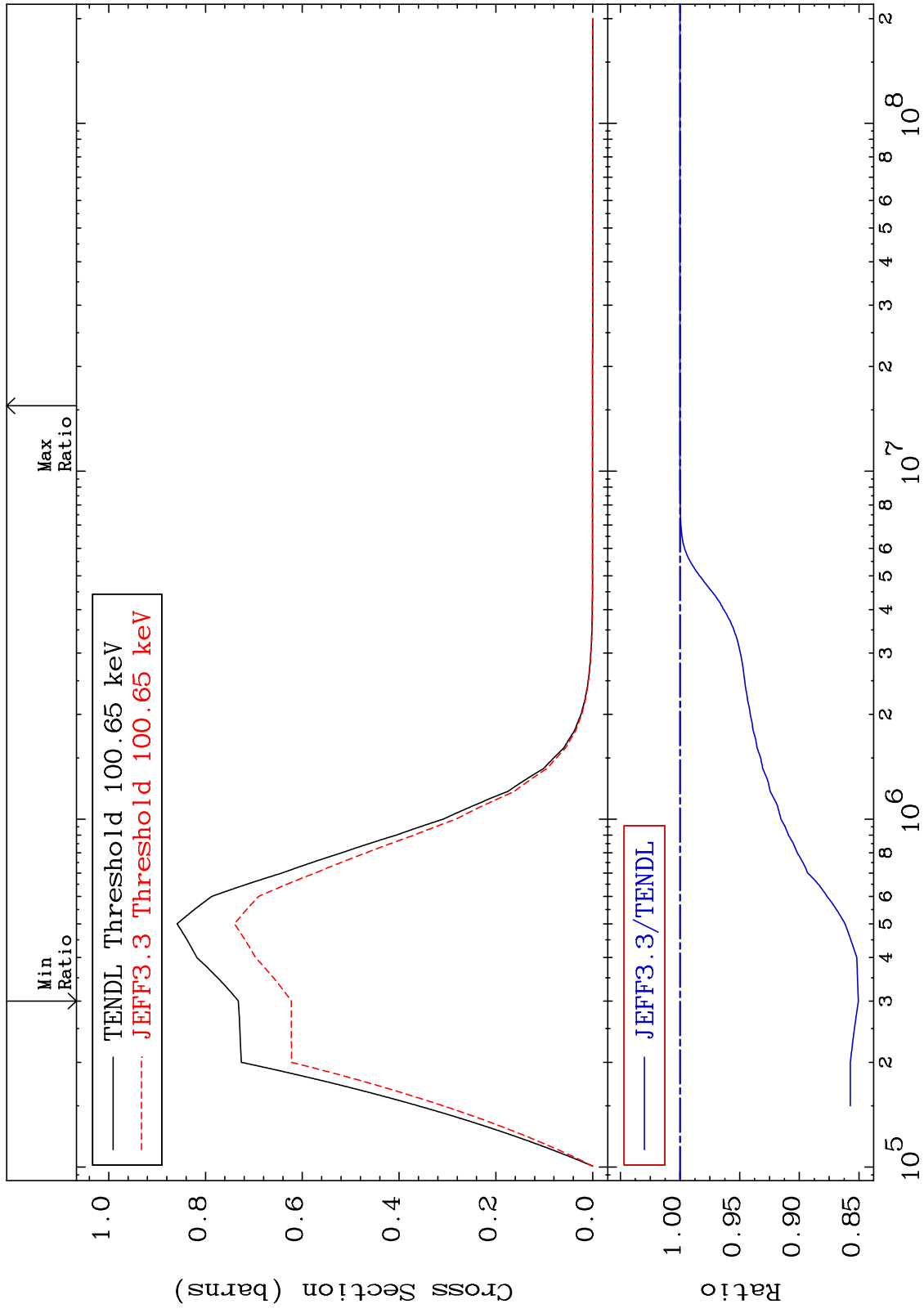
MAT 6719

(n,n') p  $\alpha$   
Cross Section

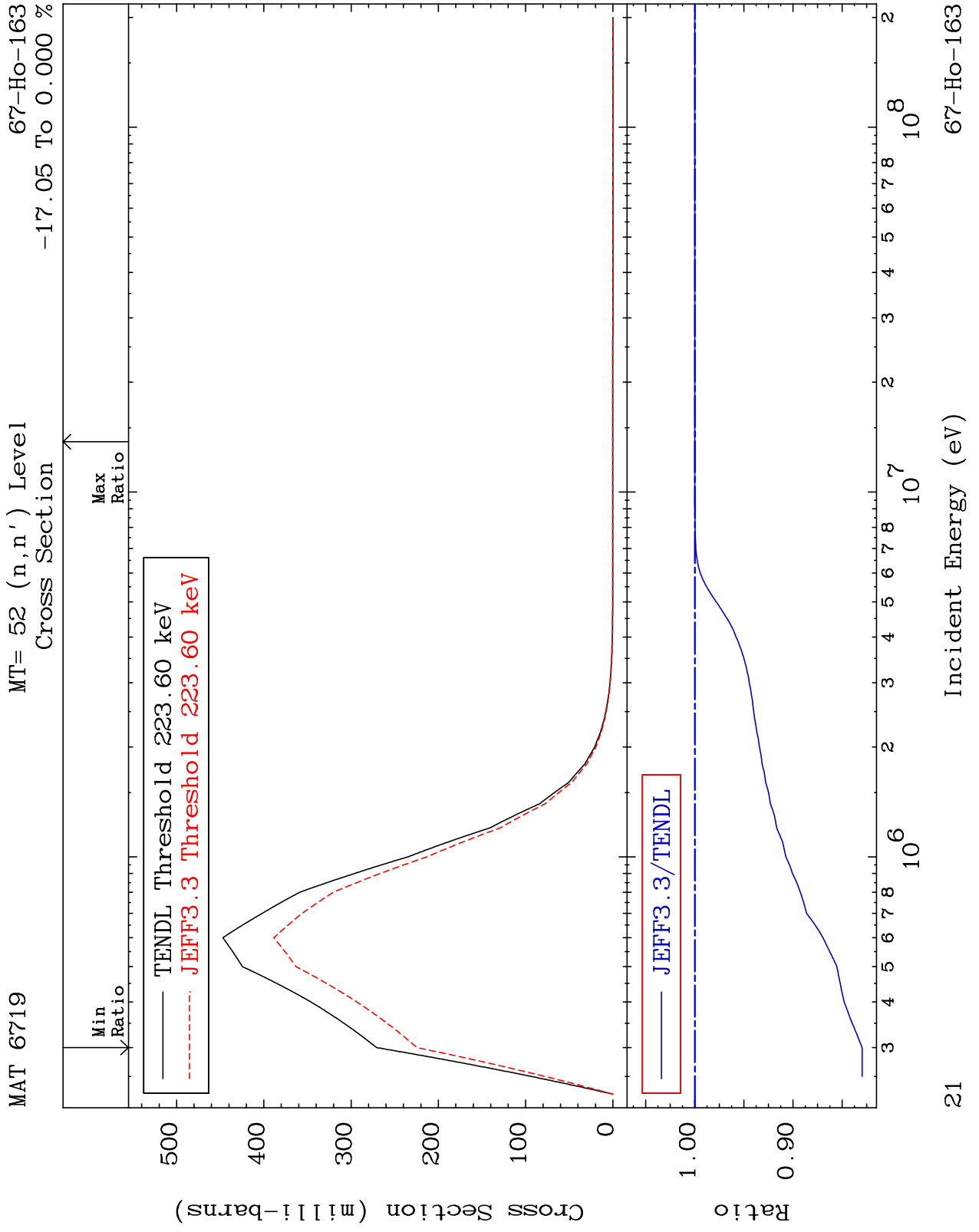
67-Ho-163  
To 9999. %  
0.000



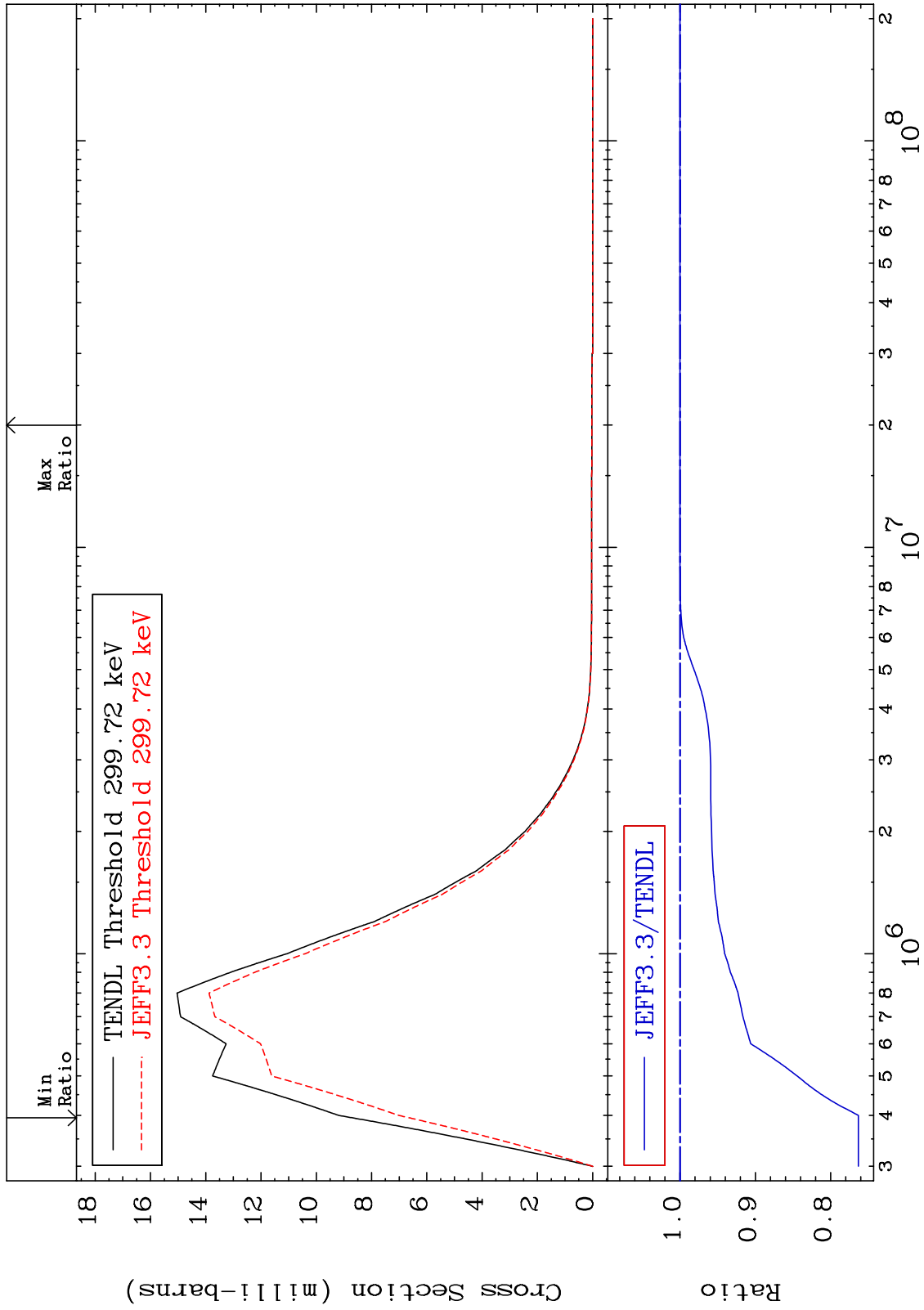
MAT 6719      MT= 51 (n,n') Level      67-Ho-163  
 Cross Section      -14.95 To 0.000 %



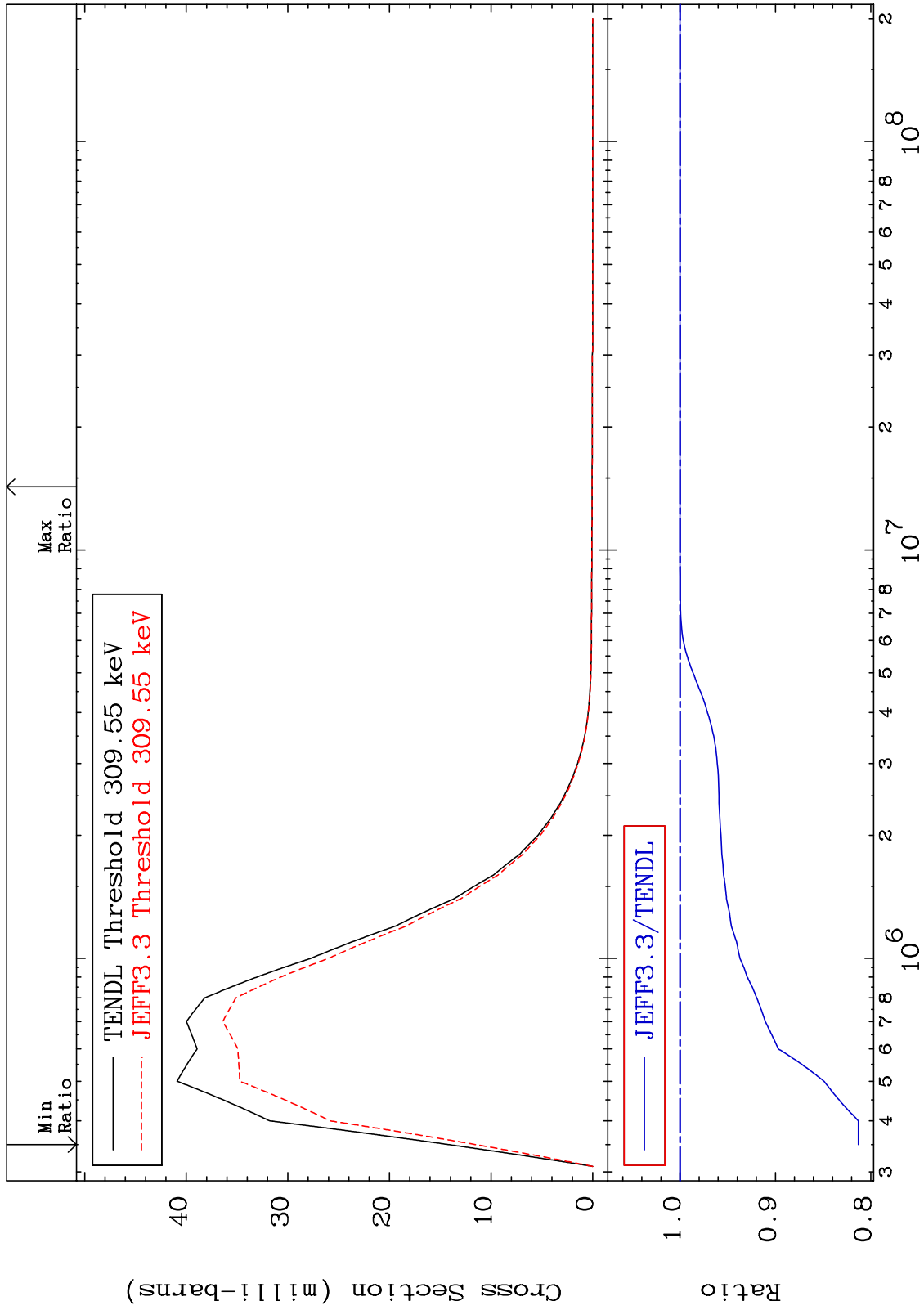
Incident Energy (eV)      67-Ho-163



MAT 6719      MT= 53 (n,n') Level Cross Section      67-Ho-163  
 -23.67 To 0.000 %



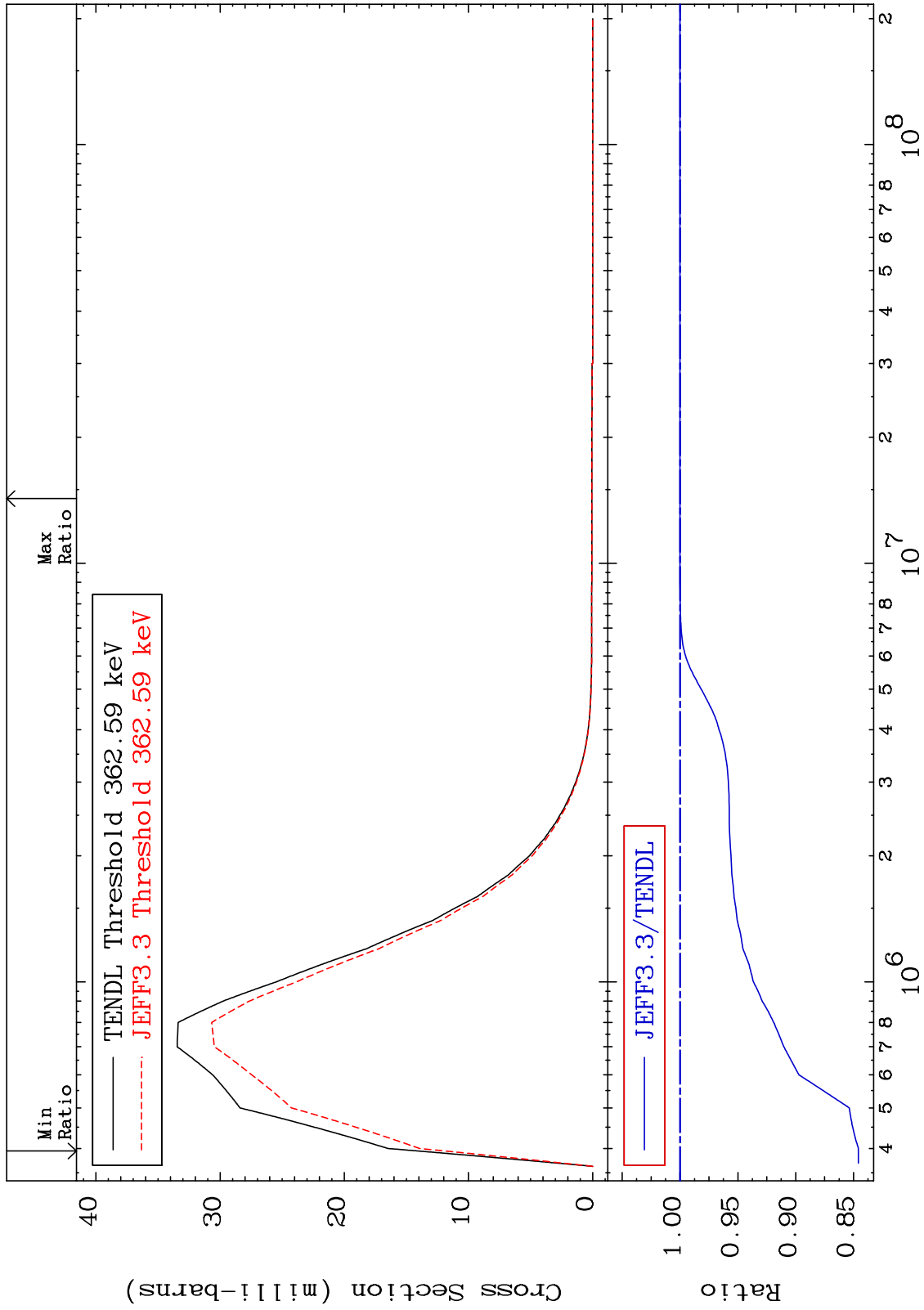
MAT 6719      MT= 54 (n,n') Level      67-Ho-163  
 Cross Section      -18.71 To 0.000 %



Incident Energy (eV)      67-Ho-163



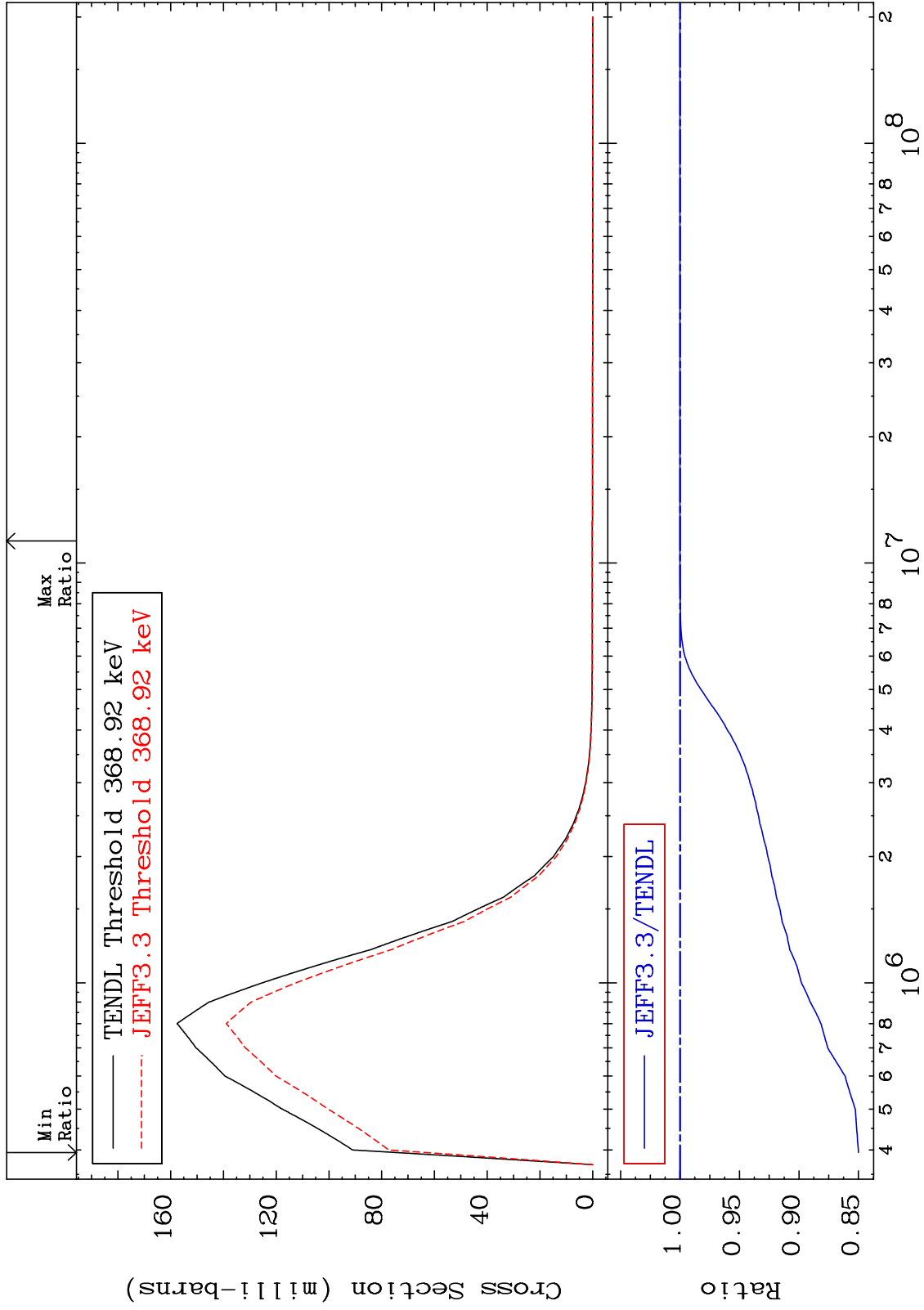
MAT 6719 MT= 55 (n,n') Level Cross Section -15.42 To 0.000 % 67-Ho-163



MAT 6719

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

67-Ho-163  
-15.00 To 0.000 %

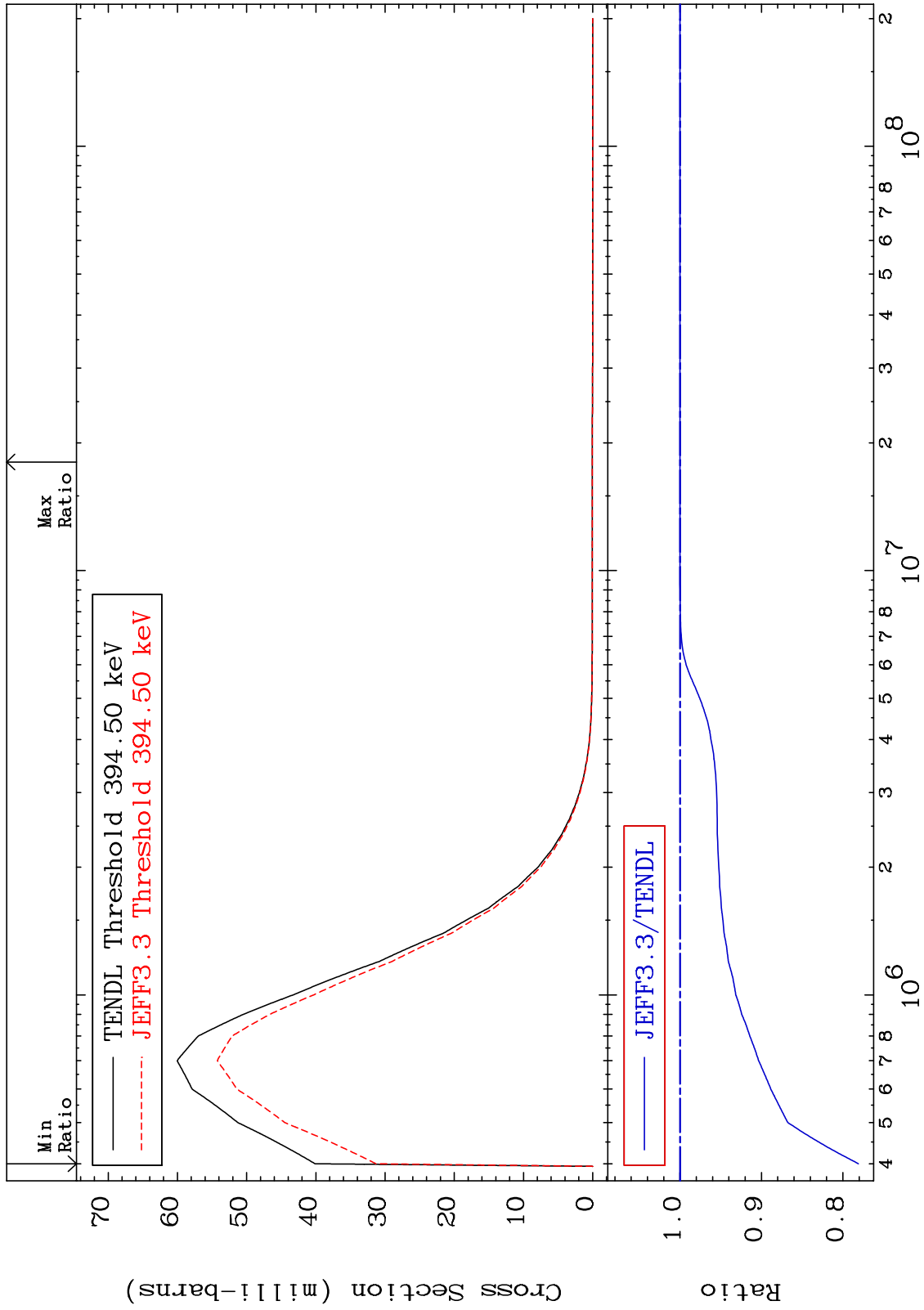


25

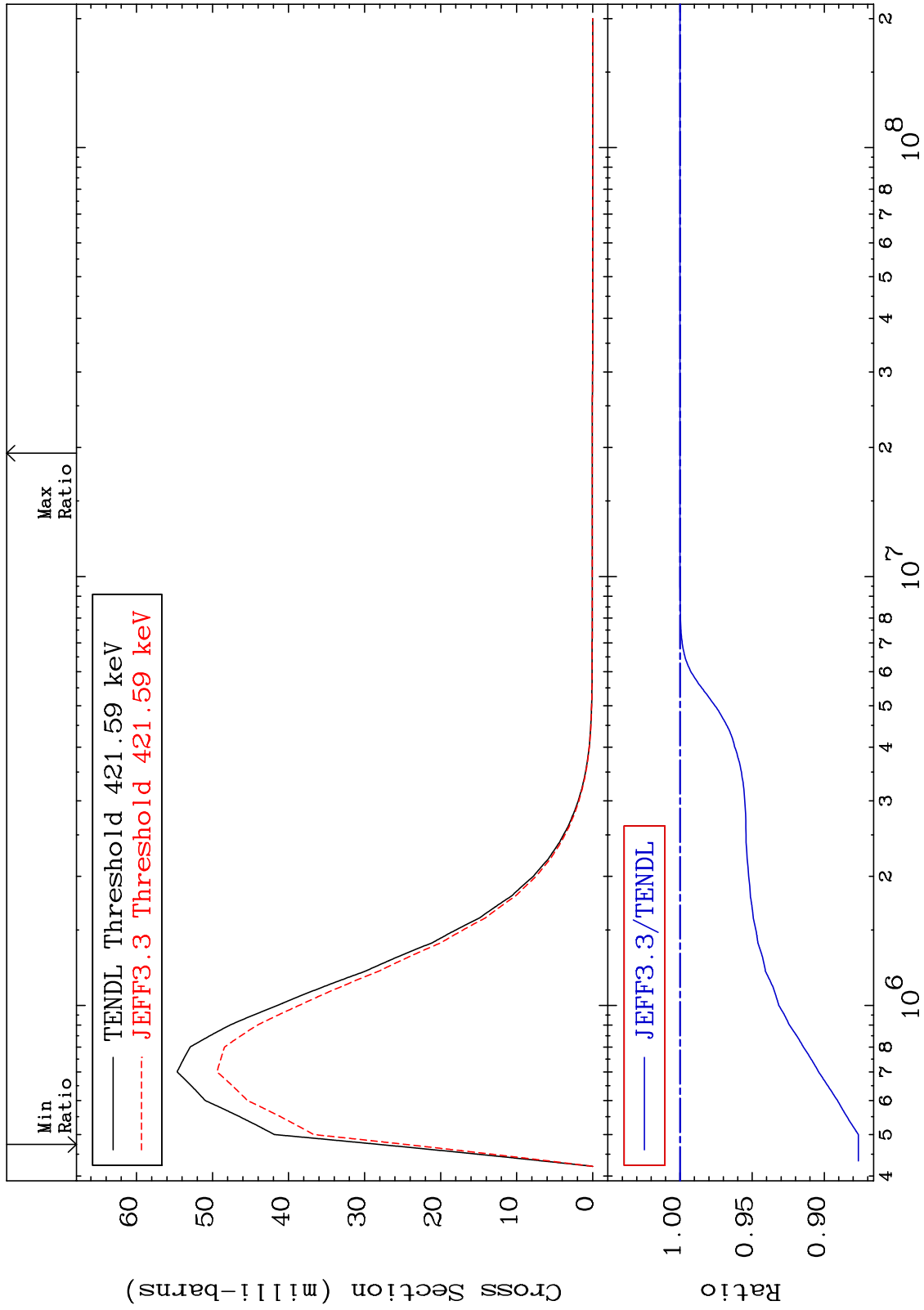
Incident Energy (eV)

67-Ho-163

MAT 6719 MT= 57 (n, n') Level Cross Section 67-Ho-163 -21.90 To 0.000 %



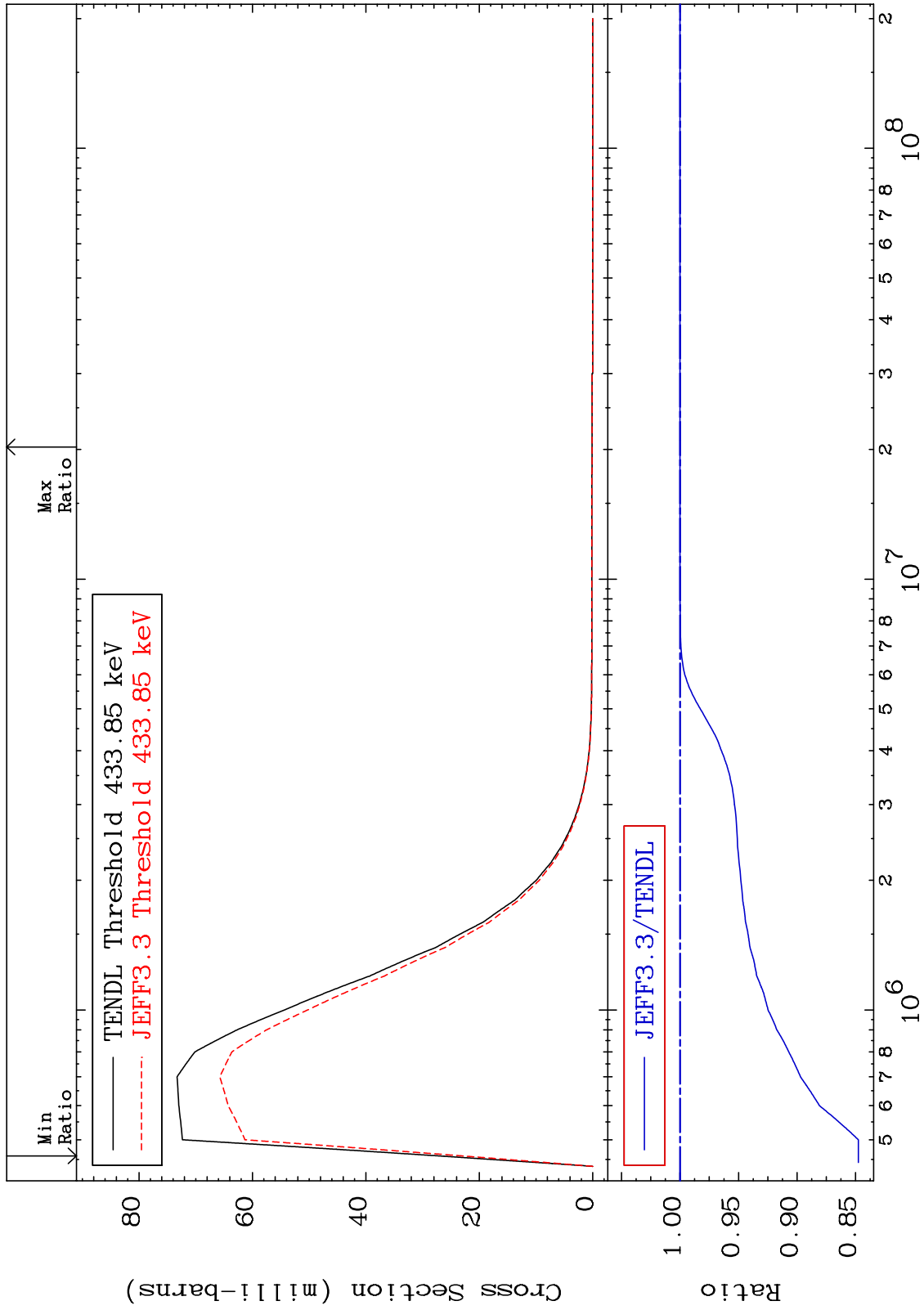
MAT 6719 MT= 58 (n, n') Level Cross Section -12.36 To 0.000 % 67-Ho-163

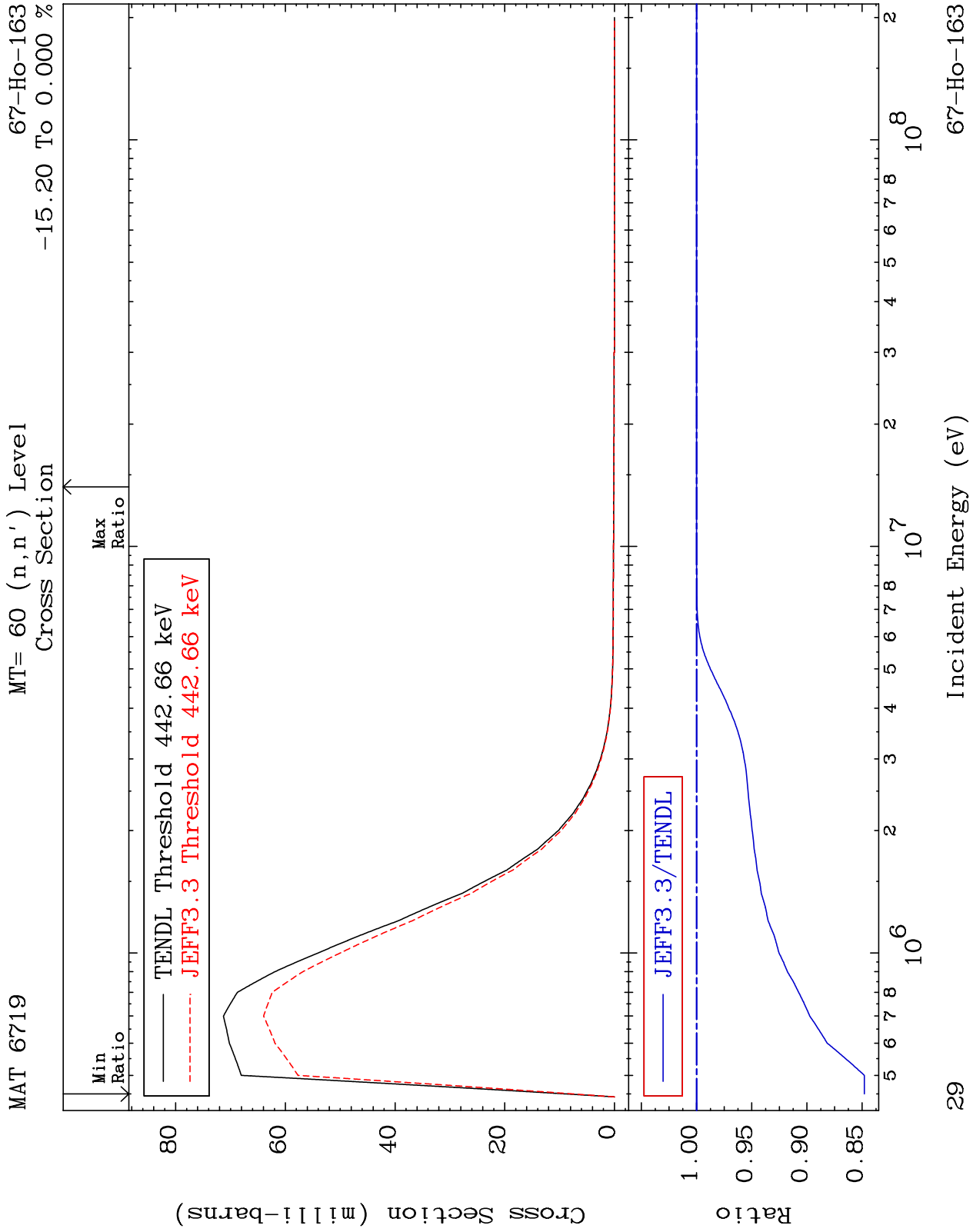


MAT 6719

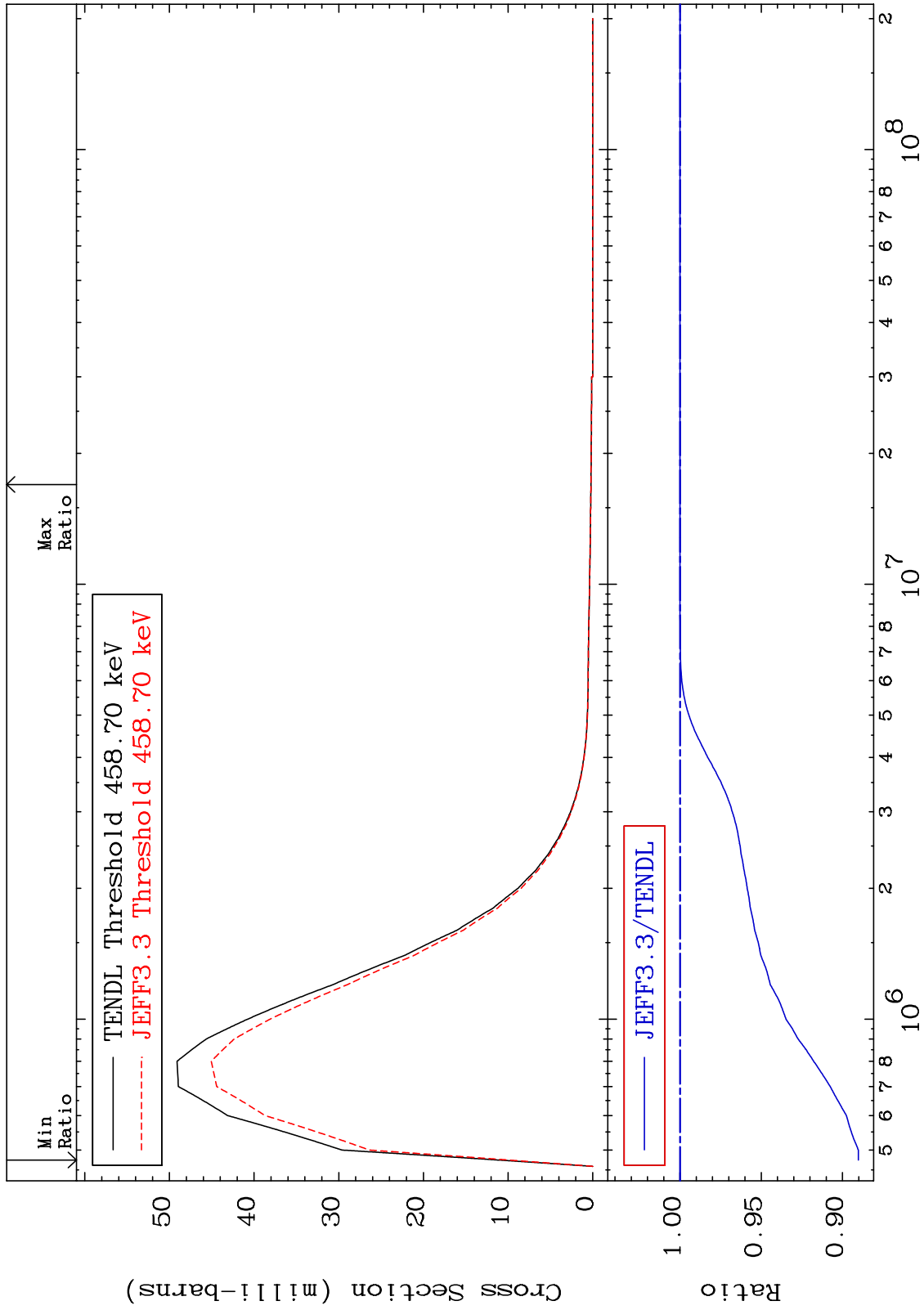
MT= 59 (n,n') Level  
Cross Section

67-Ho-163  
-15.24 To 0.000 %

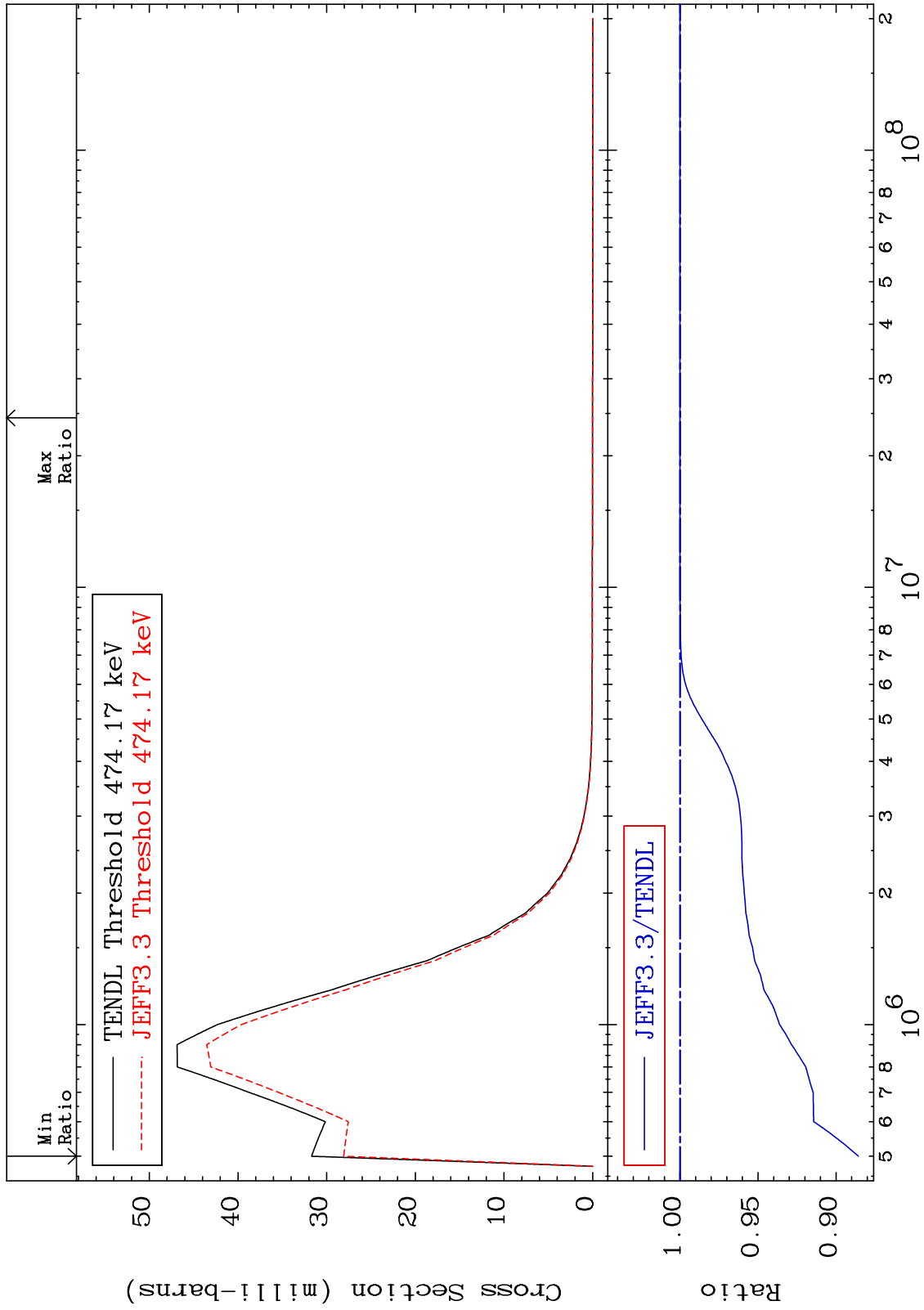




MAT 6719      MT= 61 (n,n') Level      67-Ho-163  
Cross Section      -10.98 To 0.000 %



MAT 6719      MT= 62 (n,n') Level      67-Ho-163  
 Cross Section      -11.43 To 0.000 %

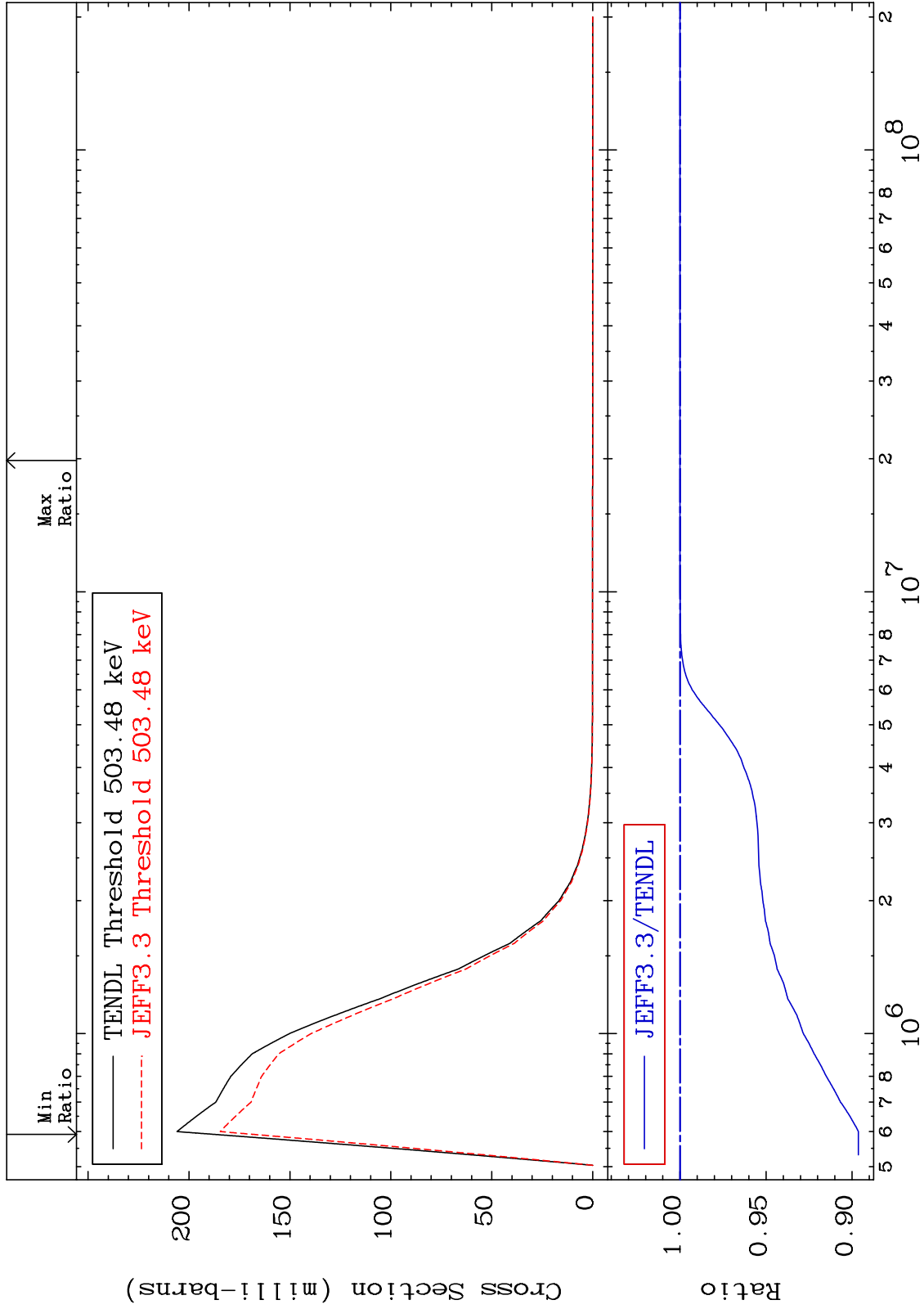




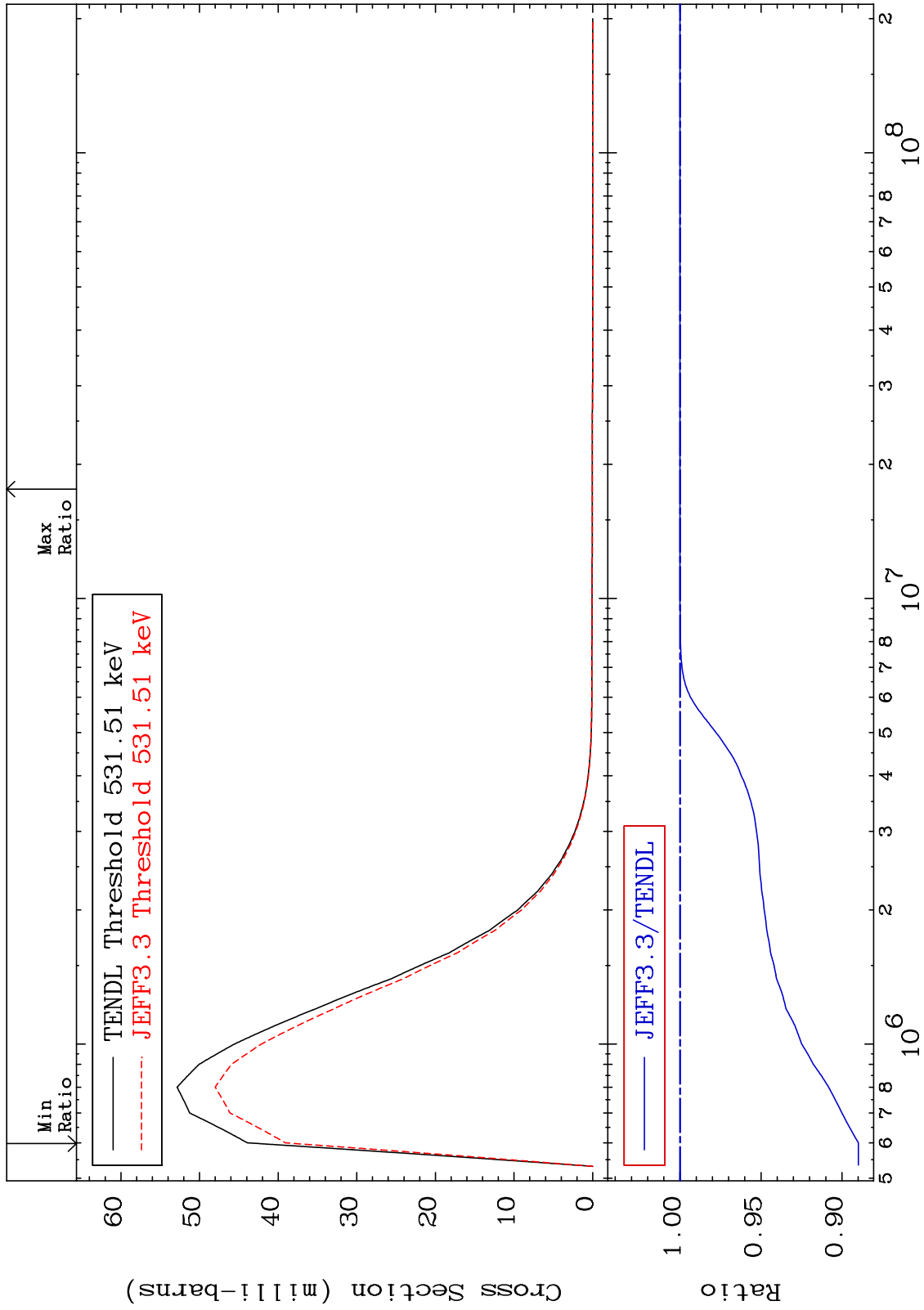
MAT 6719

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

67-Ho-163  
-10.37 To 0.000 %

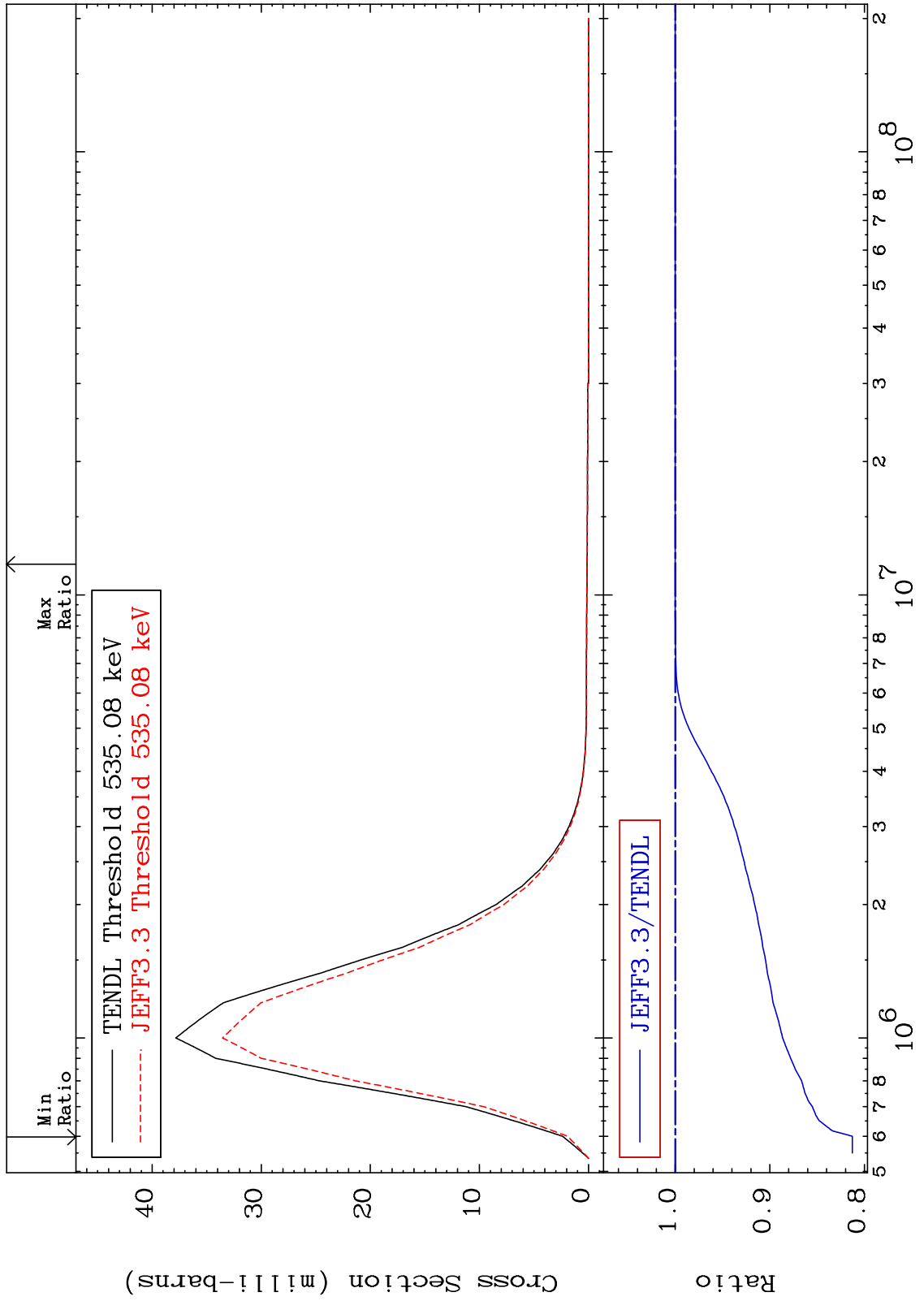


MAT 6719      MT= 64 (n,n') Level      67-Ho-163  
 Cross Section      -11.01 To 0.000 %

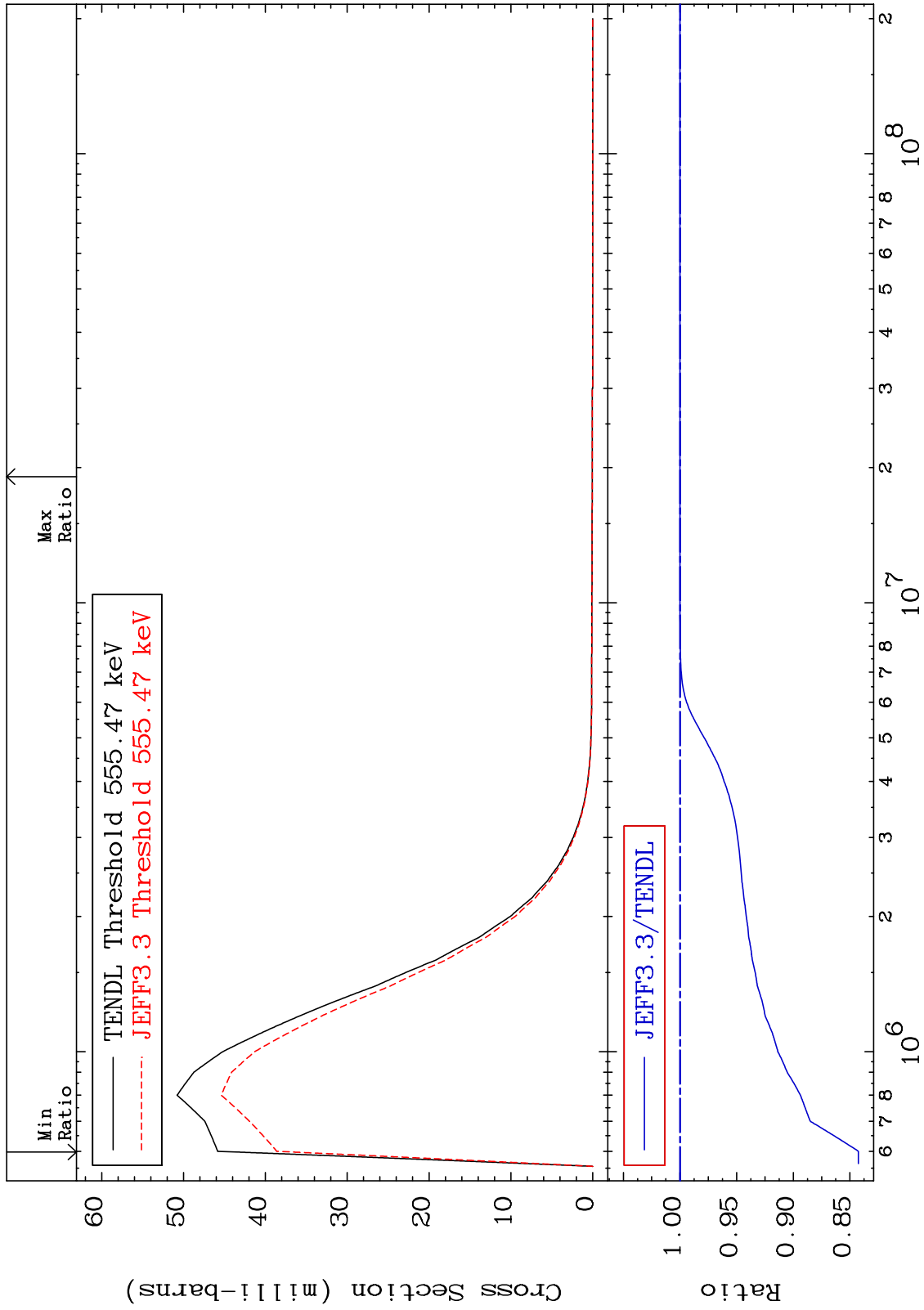


33      Incident Energy (eV)      67-Ho-163

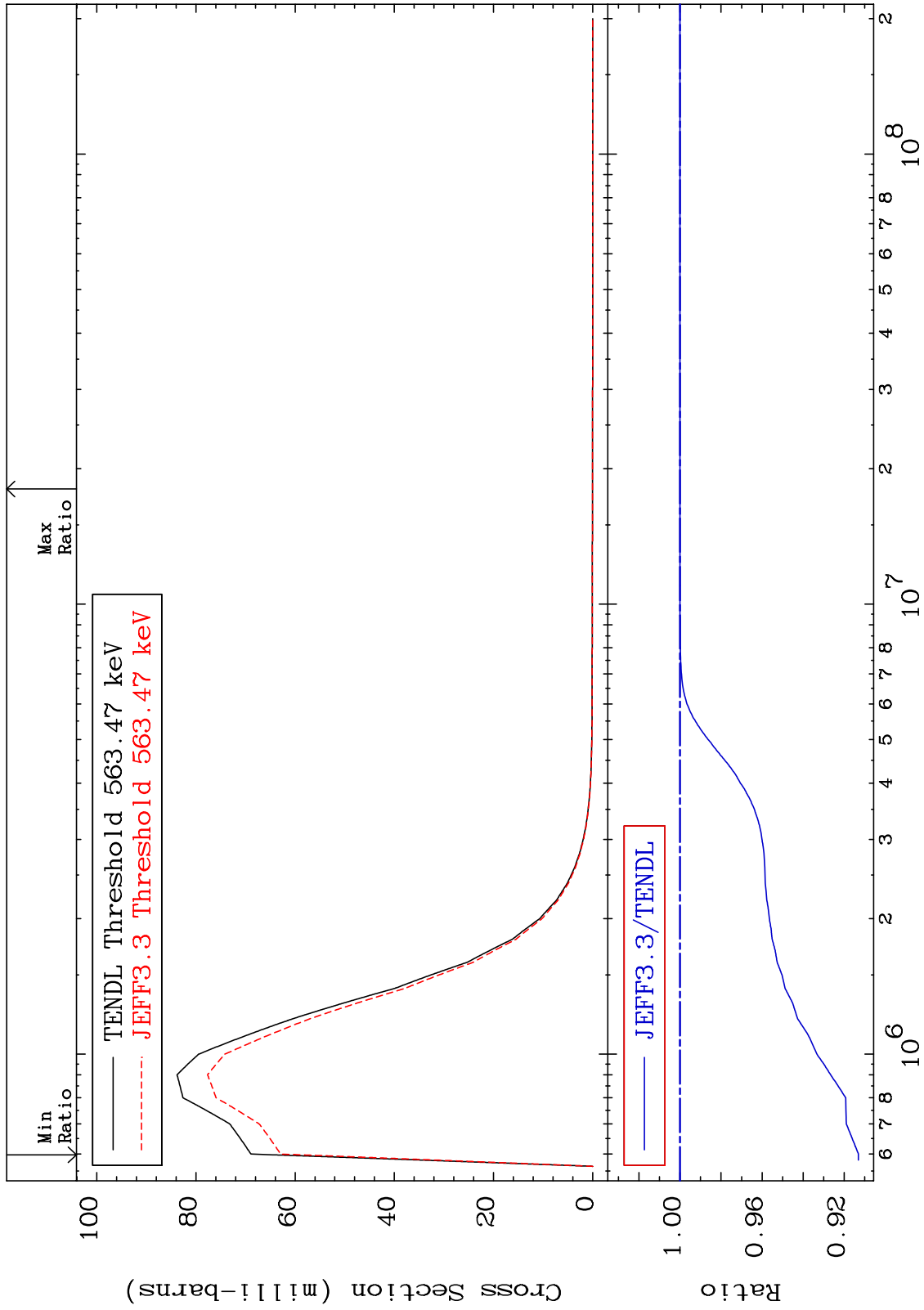
MAT 6719      MT= 65 (n,n') Level      67-Ho-163  
 Cross Section      -18.73 To 0.000 %



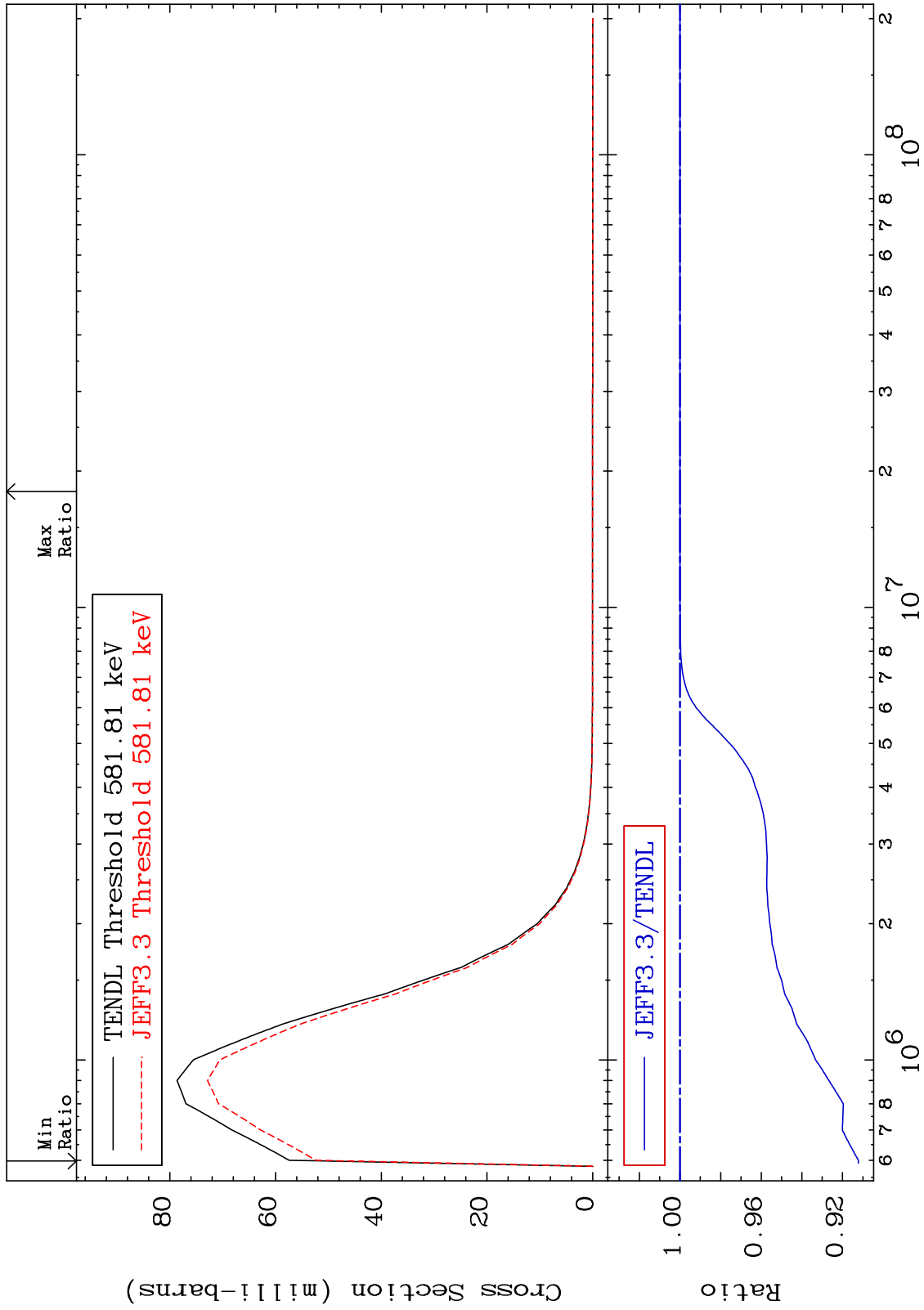
MAT 6719      MT= 66 (n,n') Level      67-Ho-163  
 Cross Section      -15.75 To 0.000 %



MAT 6719      MT= 67 (n,n') Level Cross Section      67-Ho-163  
 -8.695 To 0.000 %



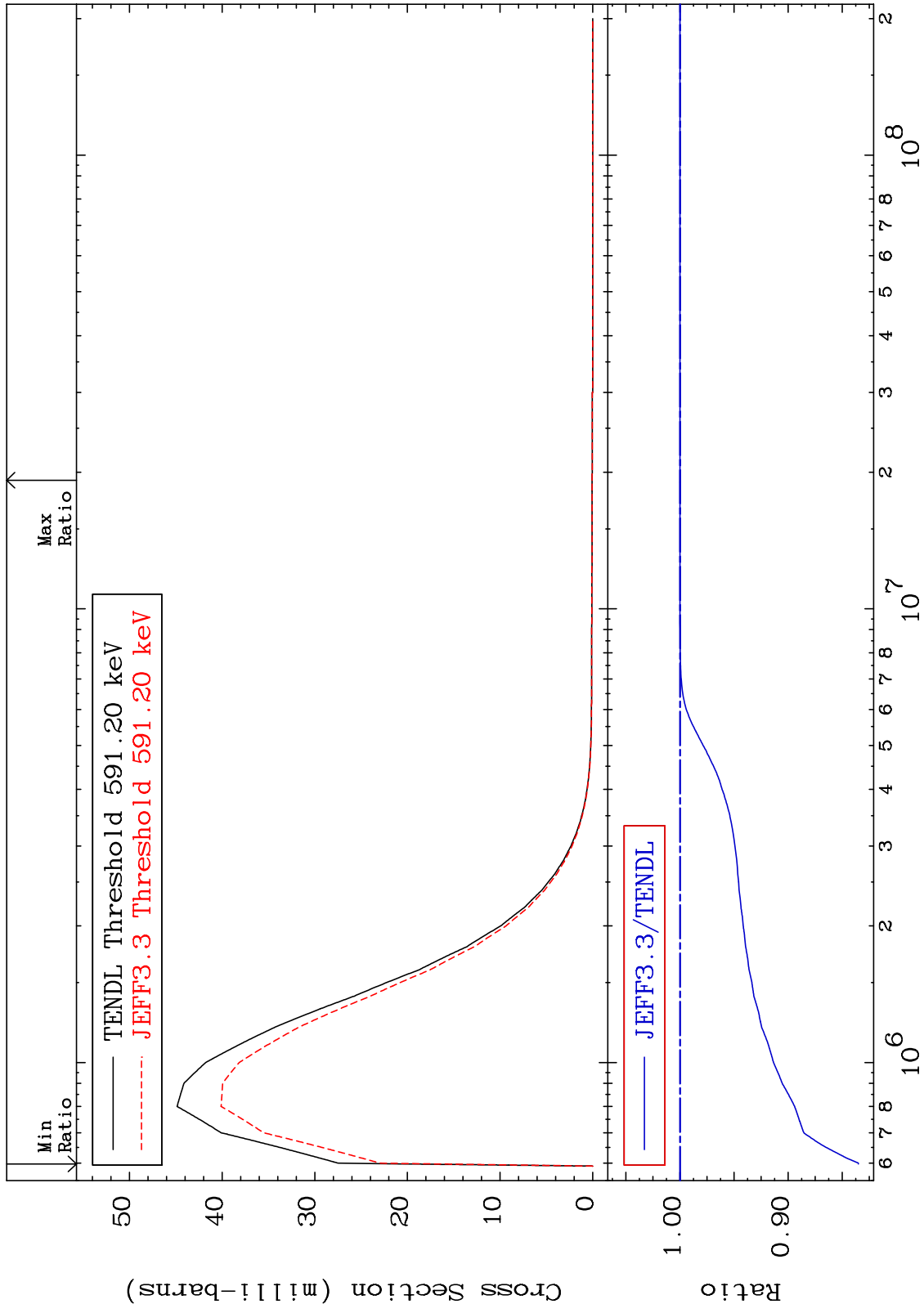
MAT 6719      MT= 68 (n,n') Level      67-Ho-163  
 Cross Section      -8.781 To 0.000 %



MAT 6719

MT= 69 (n,n') Level  
Cross Section

67-Ho-163  
-16.50 To 0.000 %



38

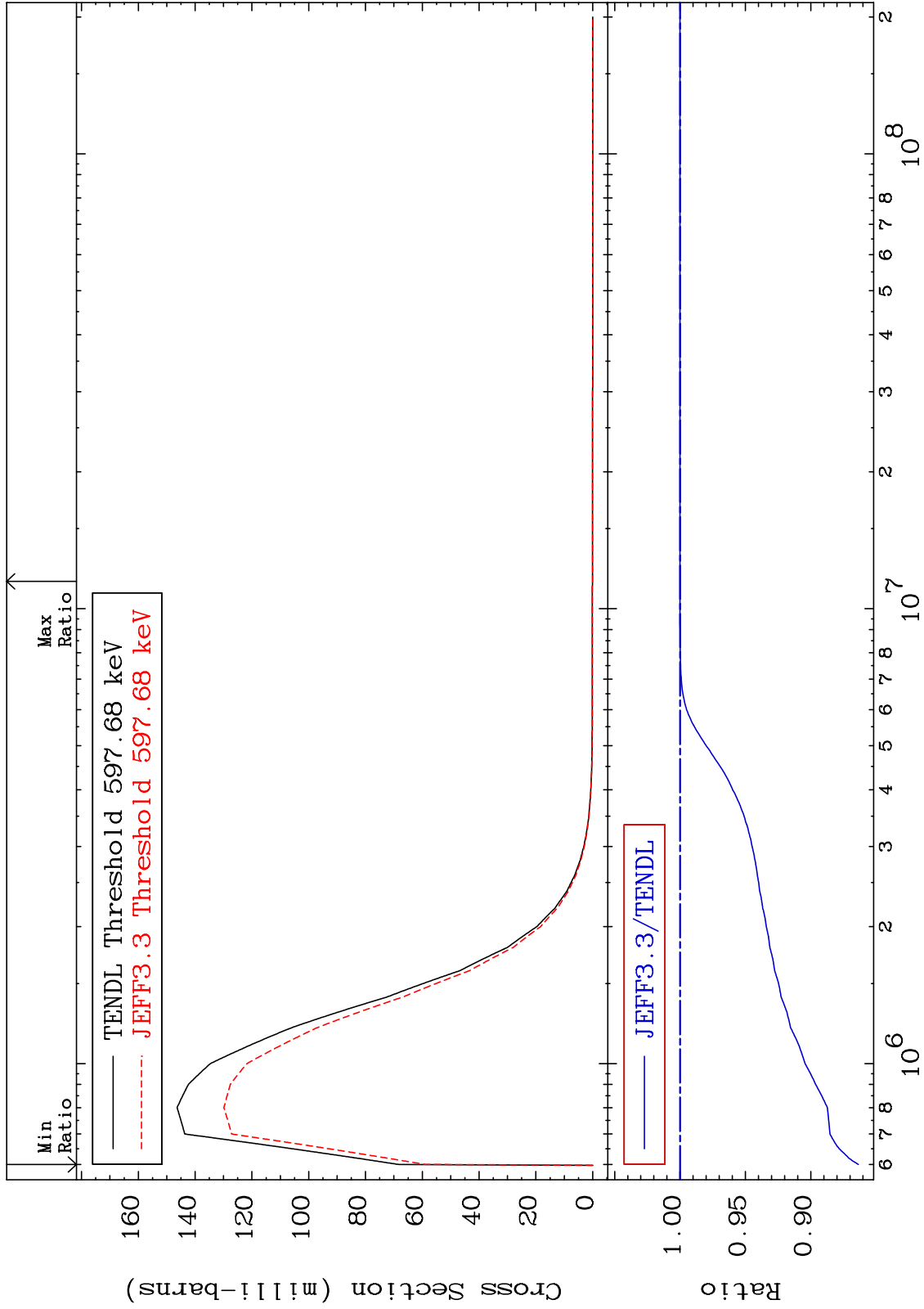
Incident Energy (eV)

67-Ho-163

MAT 6719

MT= 70 (n,n') Level  
Cross Section

67-Ho-163  
-13.65 To 0.000 %



39

Incident Energy (eV)

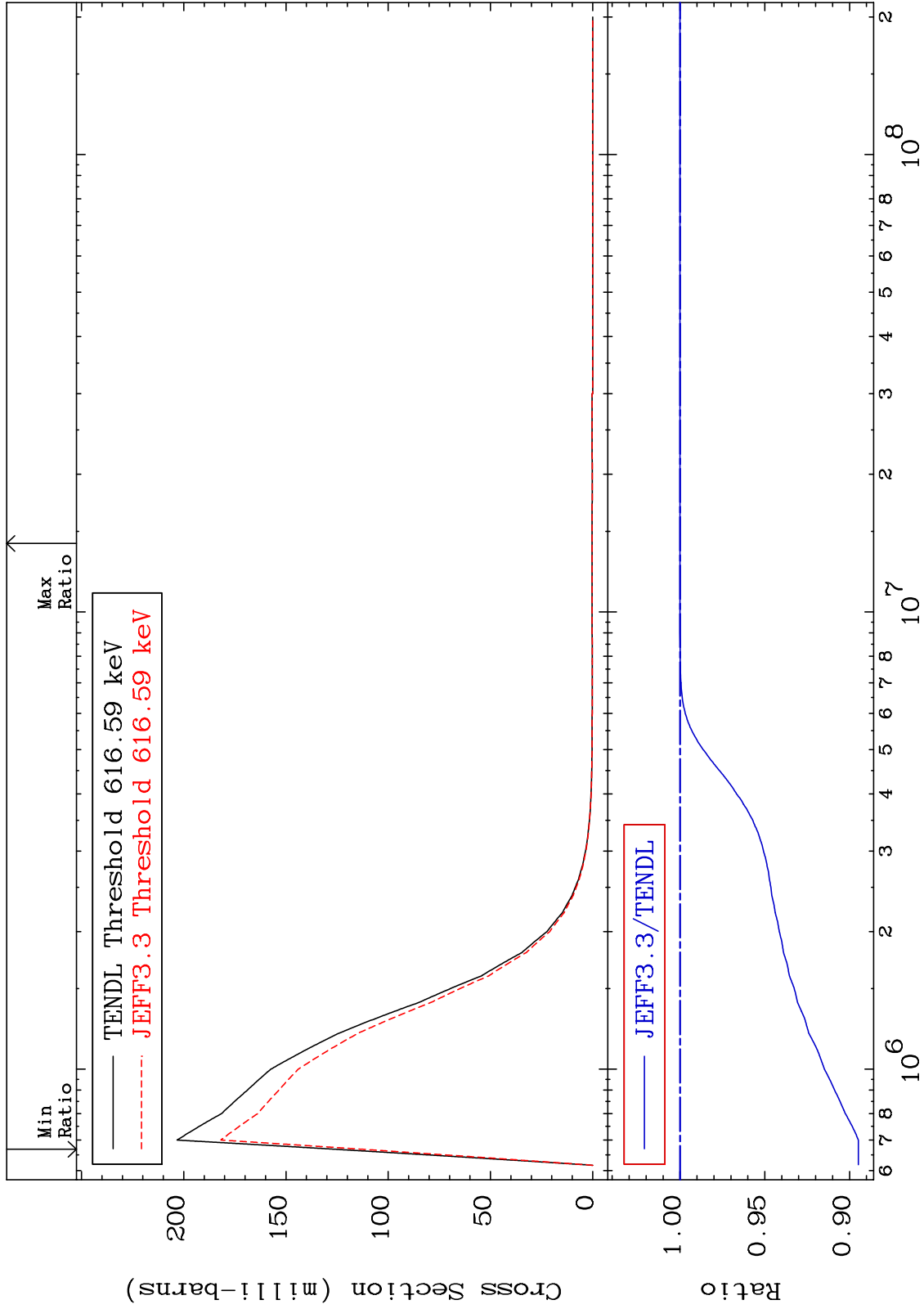
67-Ho-163



MAT 6719

MT= 71 (n, n') Level  
Cross Section

67-Ho-163  
-10.52 To 0.000 %

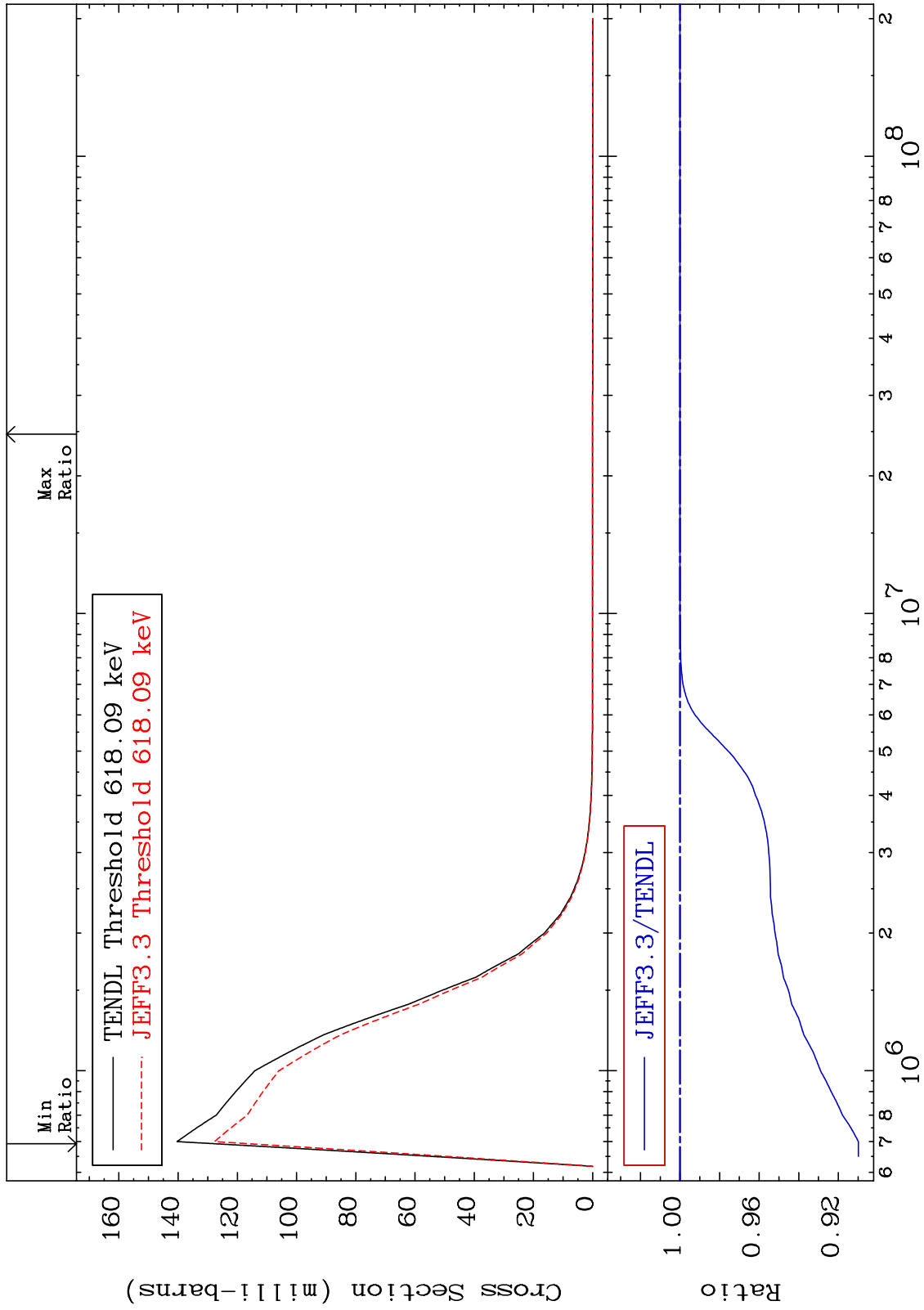


Incident Energy (eV)

67-Ho-163

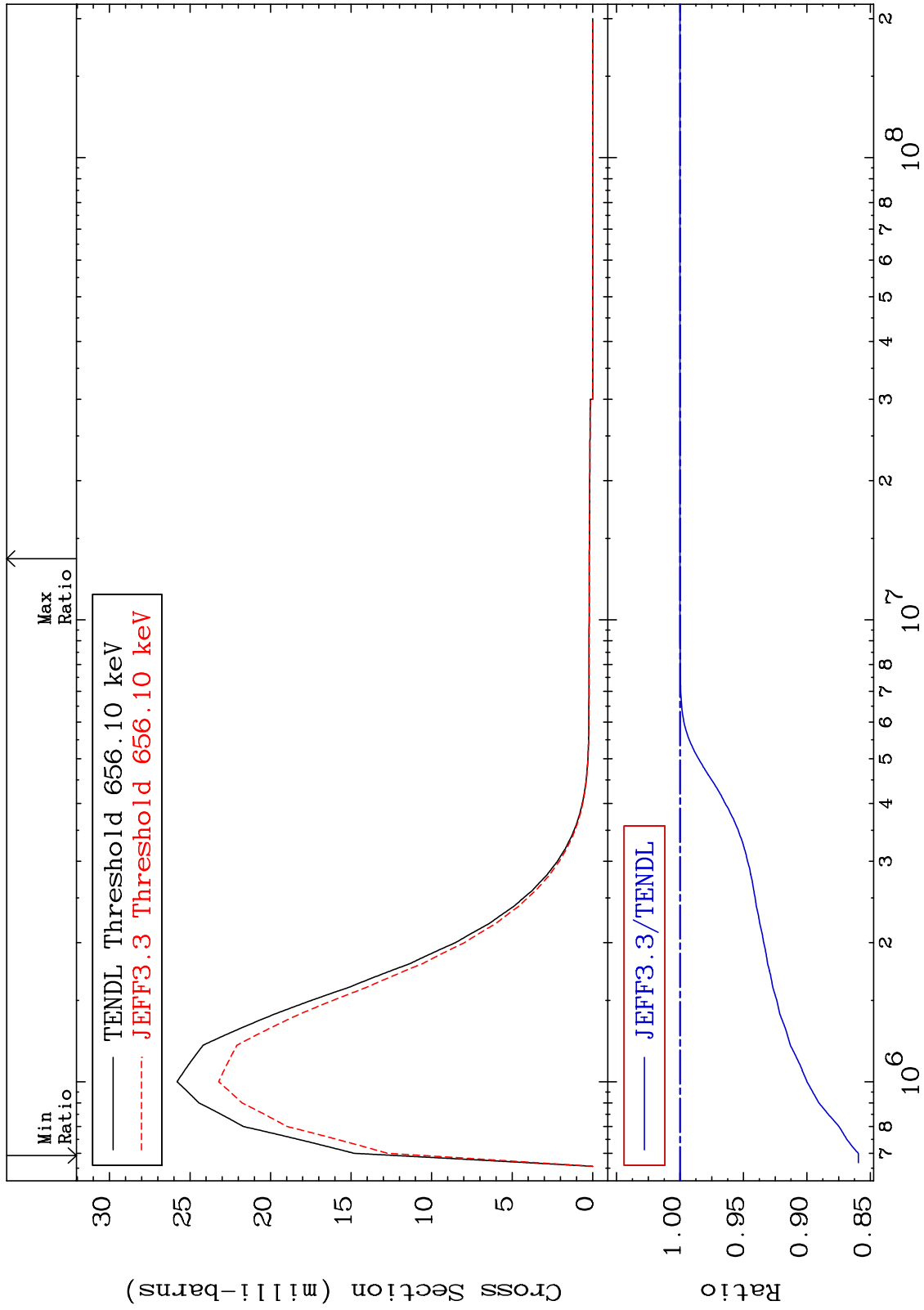
40

MAT 6719 MT= 72 (n, n') Level Cross Section 67-Ho-163 -9.018 To 0.000 %



41 67-Ho-163 Incident Energy (eV)

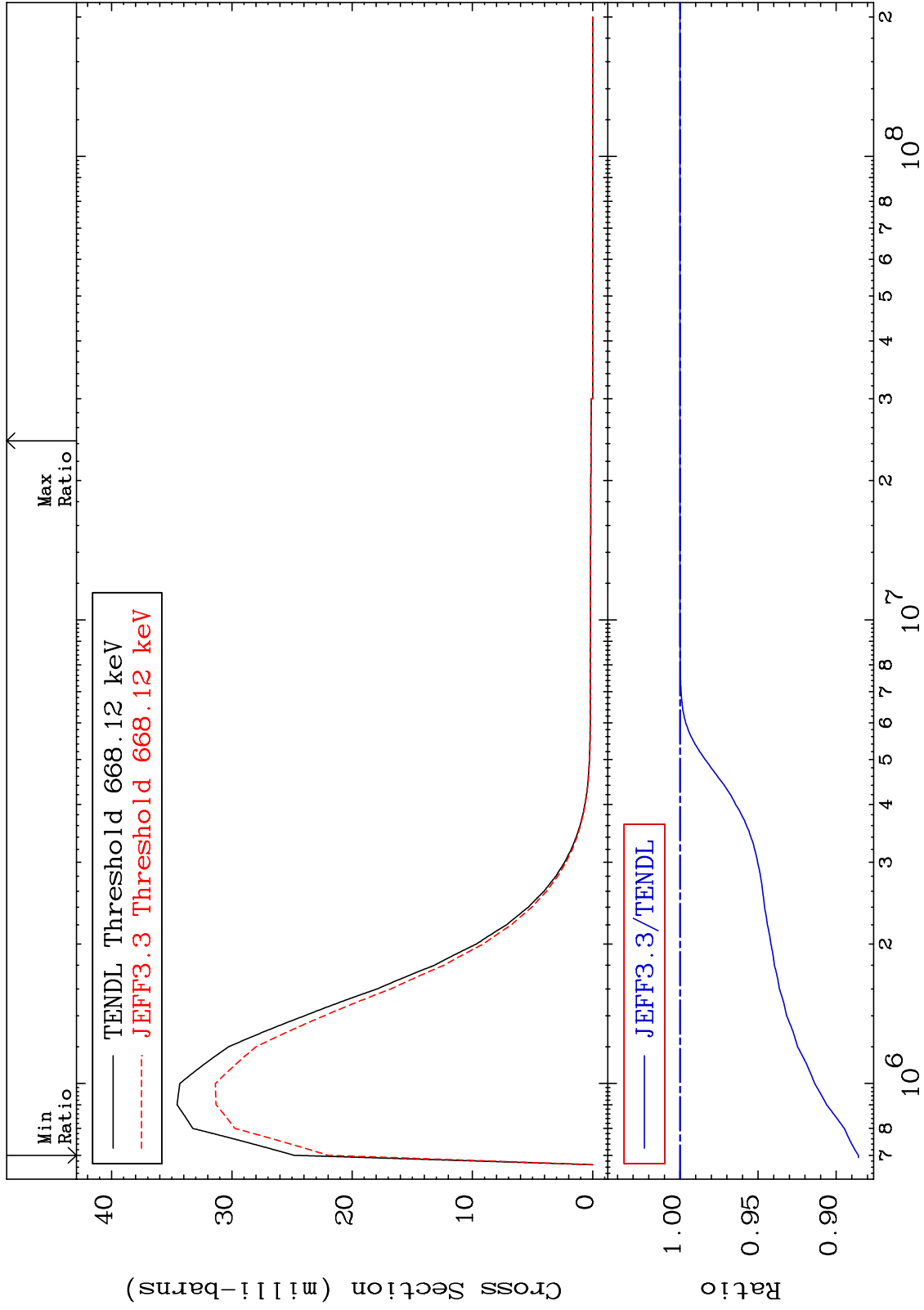
MAT 6719      MT= 73 (n,n') Level      67-Ho-163  
 Cross Section      -14.06 To 0.000 %



MAT 6719

MT= 74 (n,n') Level  
Cross Section

67-Ho-163  
-11.42 To 0.000 %

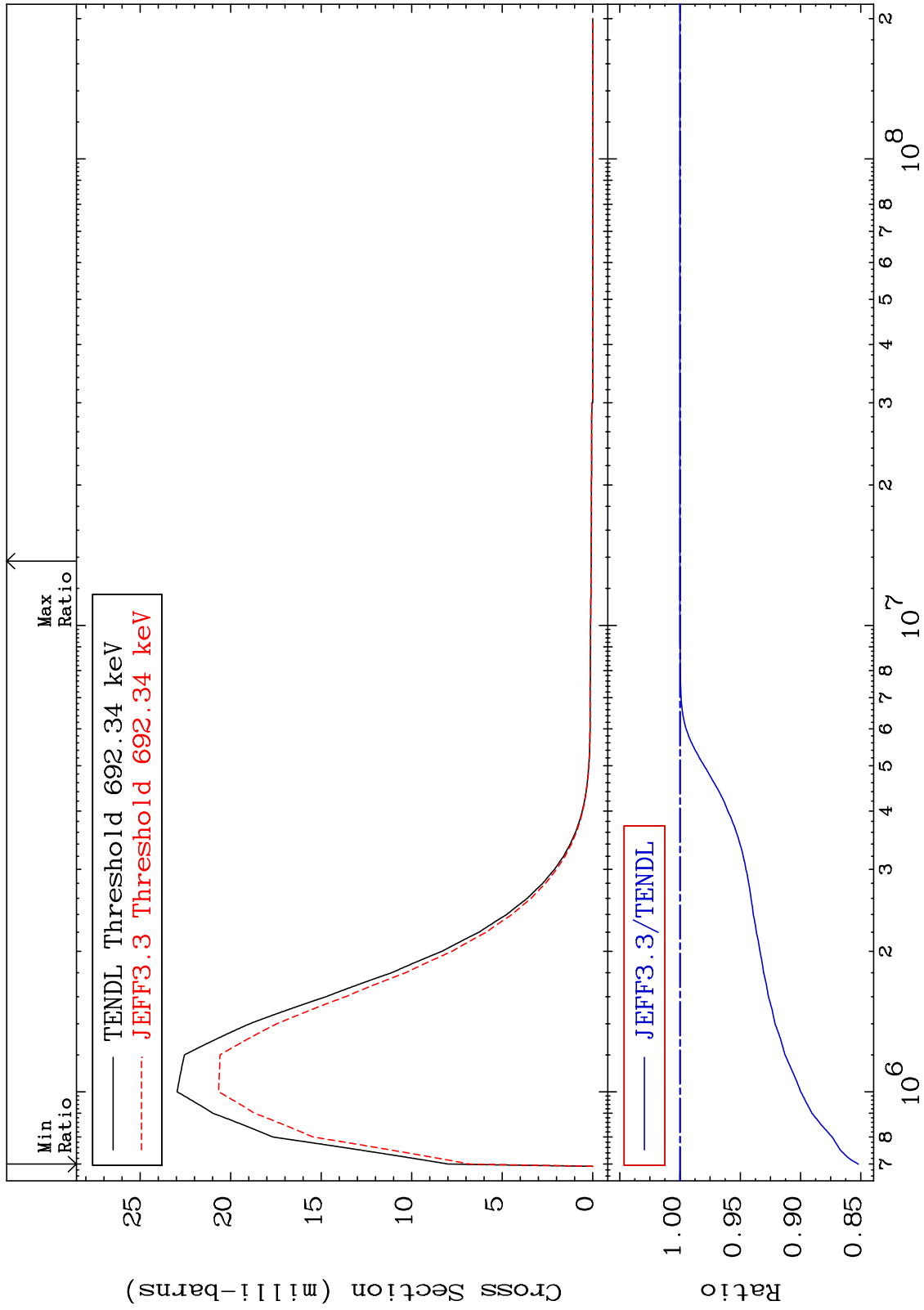


43

Incident Energy (eV)

67-Ho-163

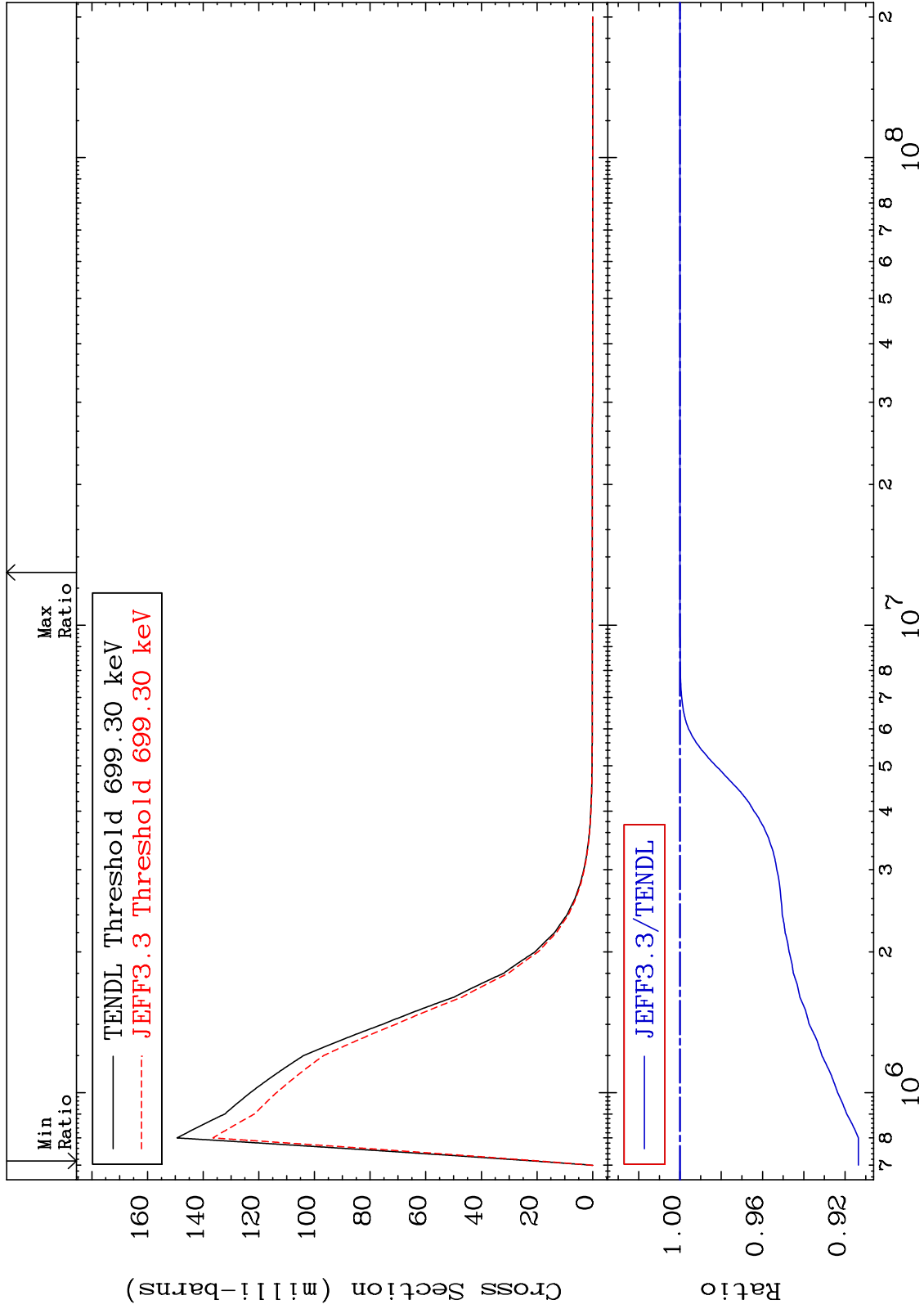
MAT 6719      MT= 75 (n,n') Level      67-Ho-163  
 Cross Section      -14.80 To 0.000 %



MAT 6719

MT= 76 (n,n') Level  
Cross Section

67-Ho-163  
-8.647 To 0.000 %



45

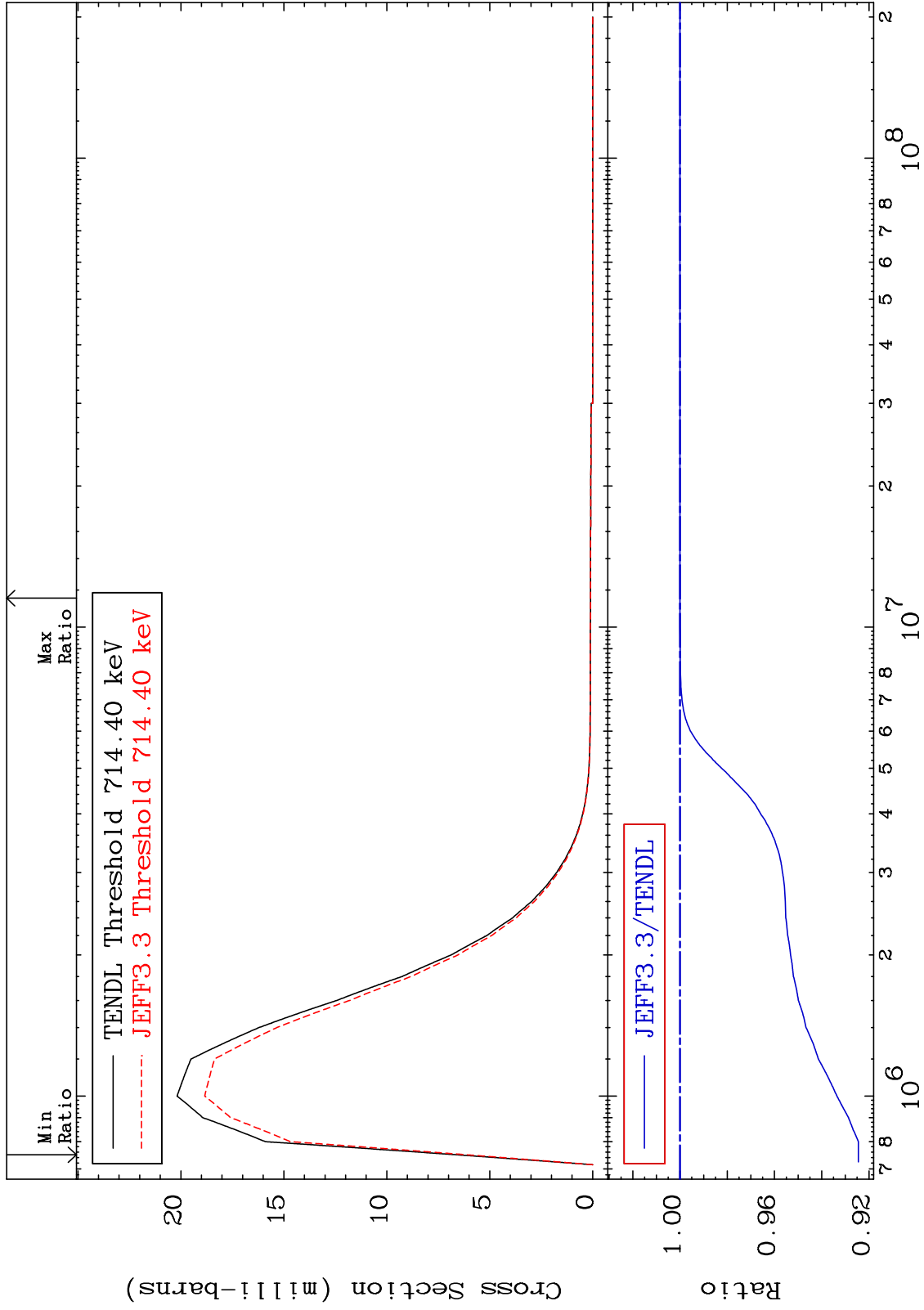
Incident Energy (eV)

67-Ho-163

MAT 6719

MT= 77 (n,n') Level  
Cross Section

67-Ho-163  
-7.553 To 0.000 %

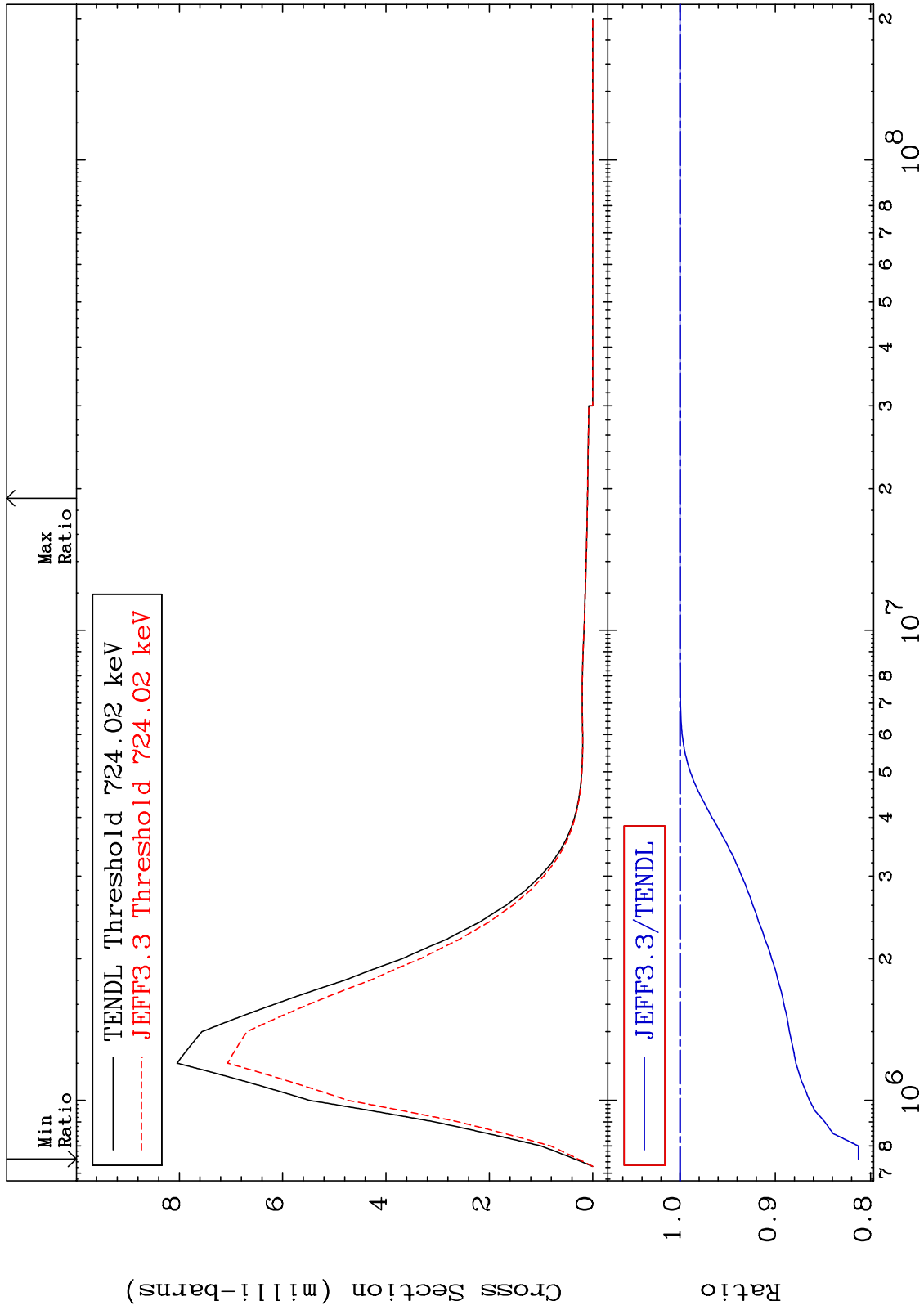


46

Incident Energy (eV)

67-Ho-163

MAT 6719 MT= 78 (n,n') Level Cross Section -18.72 To 0.000 % 67-Ho-163

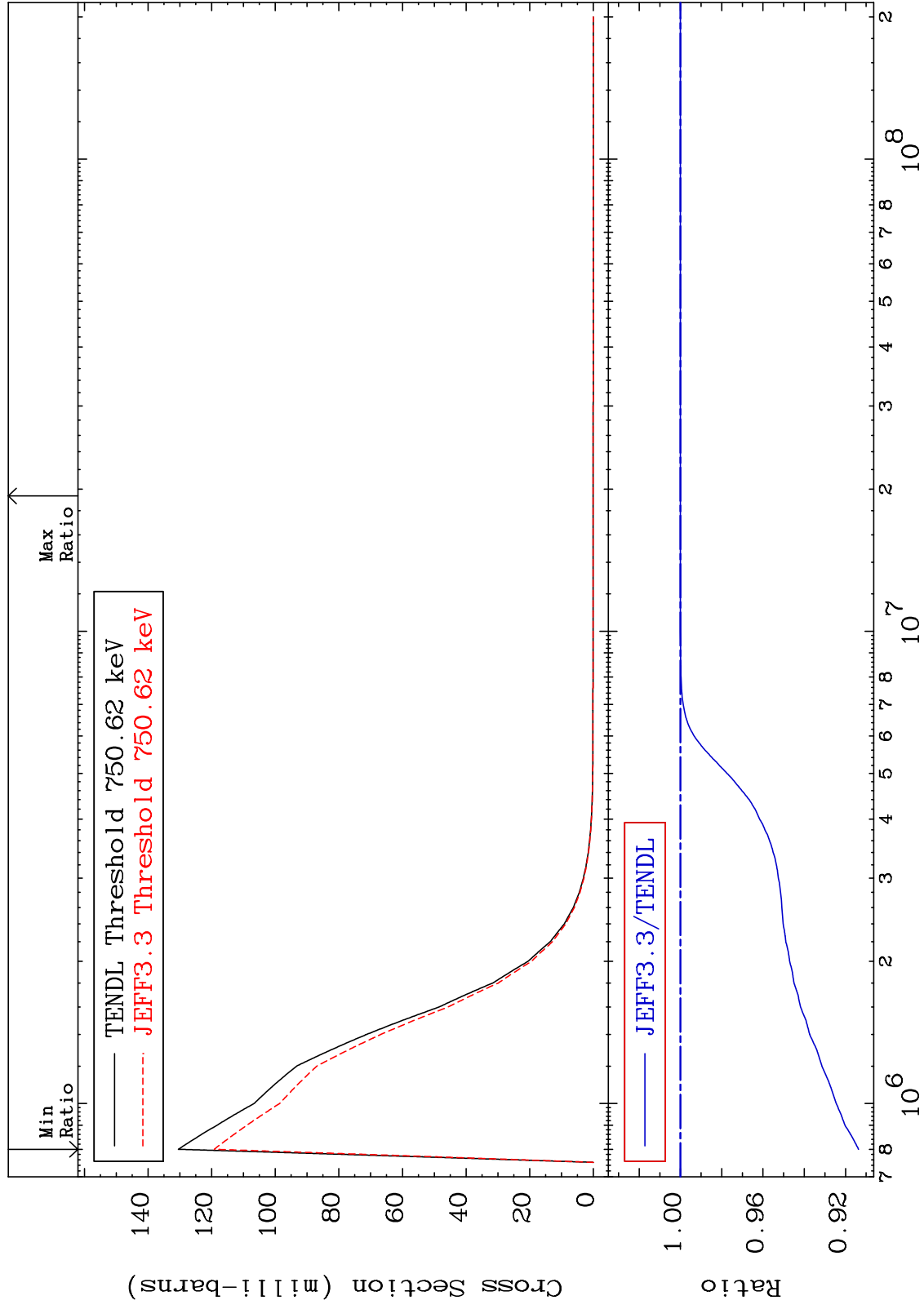




MAT 6719

MT= 79 (n,n') Level  
Cross Section

67-Ho-163  
-8.628 To 0.000 %



48

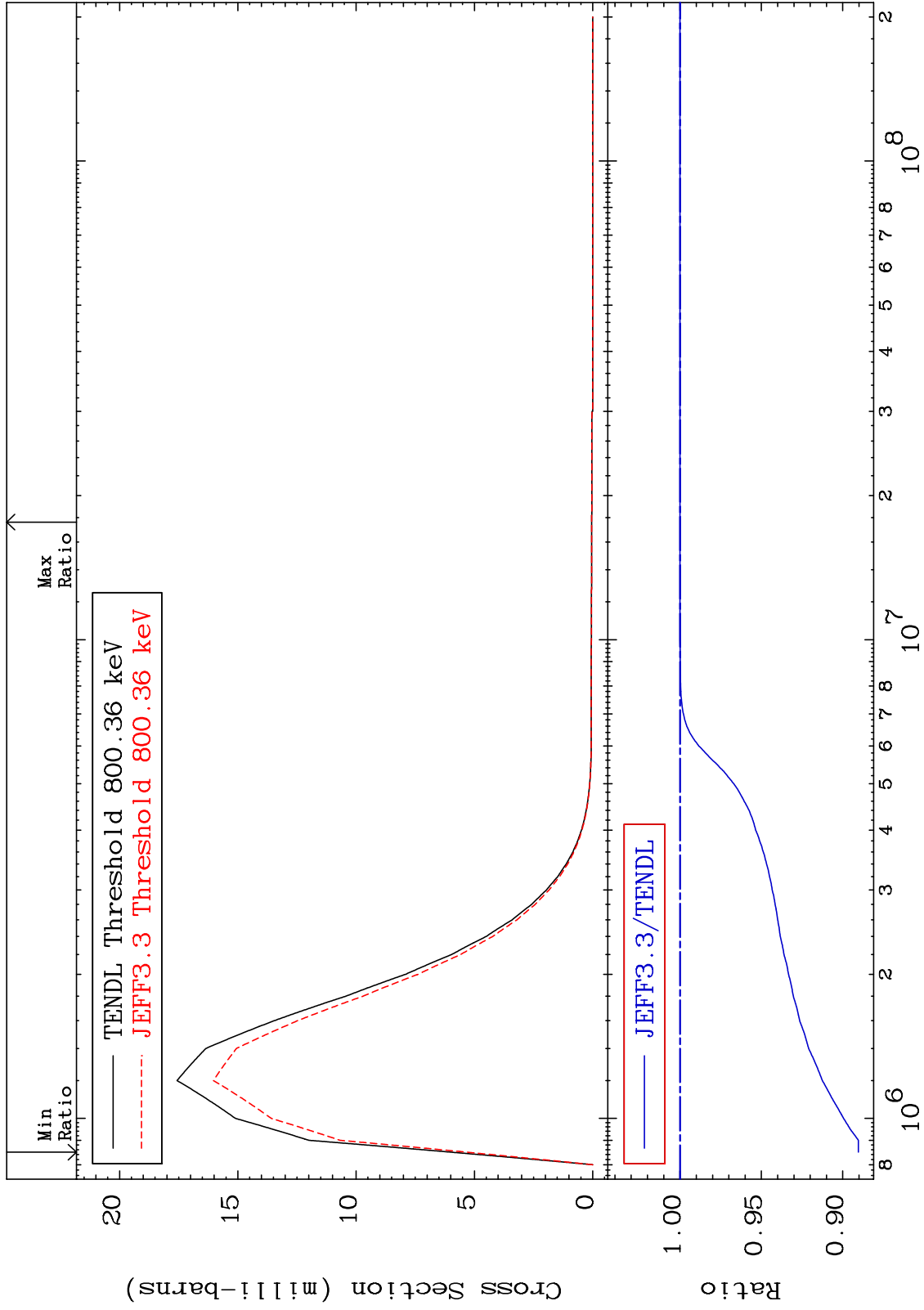
Incident Energy (eV)

67-Ho-163

MAT 6719

MT= 80 (n, n') Level  
Cross Section

67-Ho-163  
-10.96 To 0.000 %



49

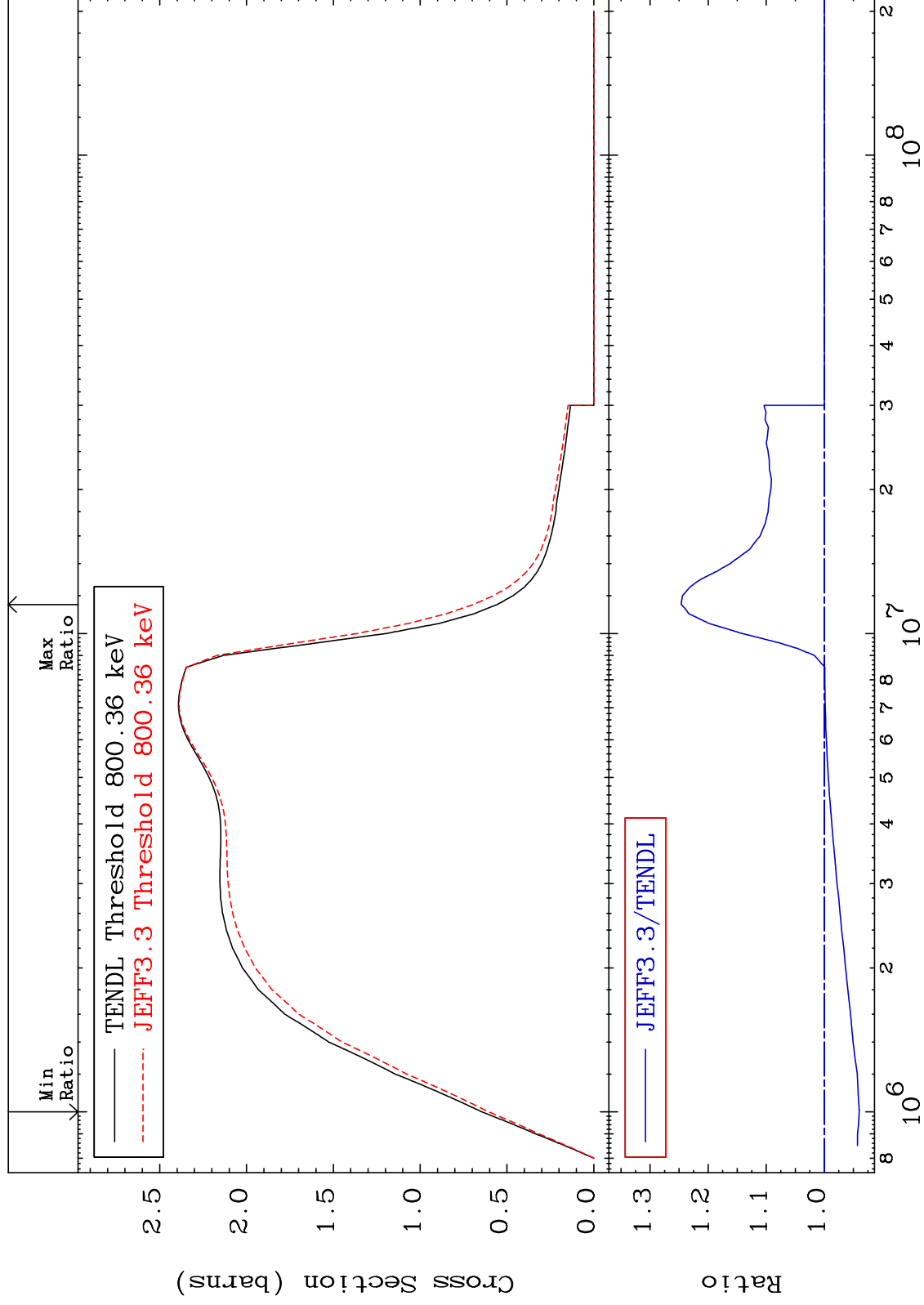
Incident Energy (eV)

67-Ho-163

MAT 6719

(n, n') Continuum  
Cross Section

67-Ho-163  
-6.018 To 24.67 %



50

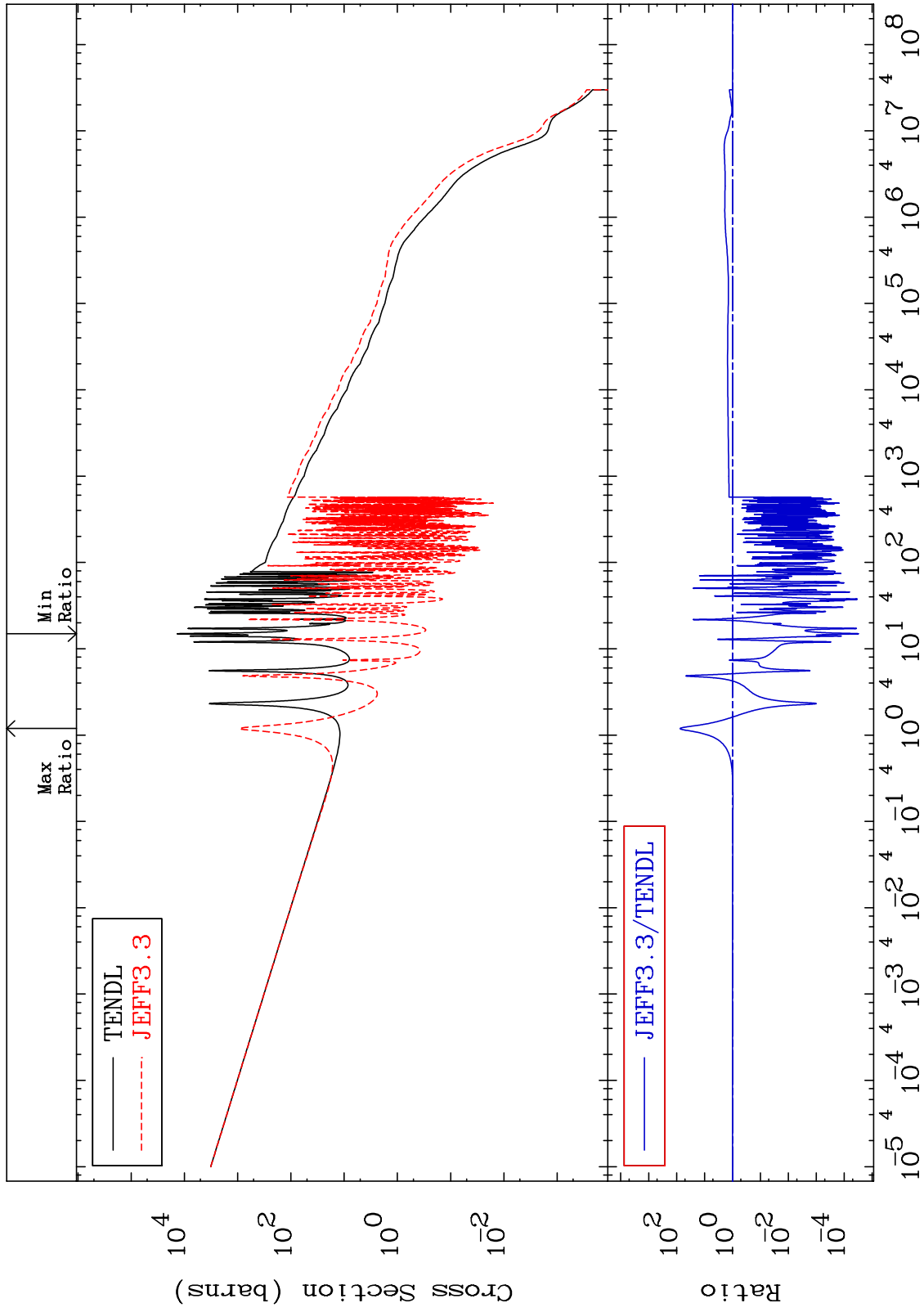
Incident Energy (eV)

67-Ho-163

MAT 6719

67-Ho-163  
-100.0 To 7442. %

(n,  $\gamma$ )  
Cross Section



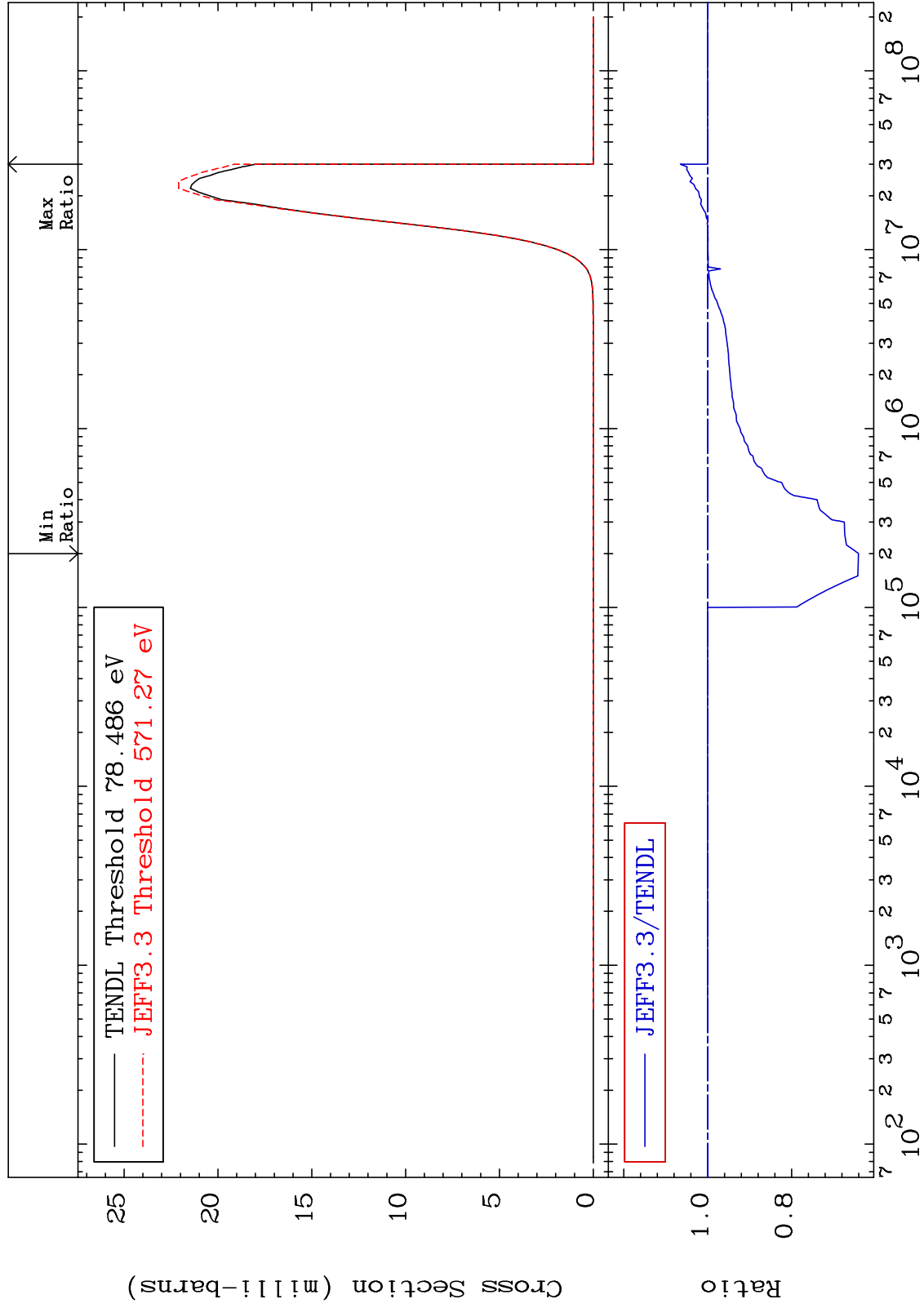
MAT 6719

(n, p)

67-Ho-163

Cross Section

-35.94 To 6.493 %



52

Incident Energy (eV)

67-Ho-163

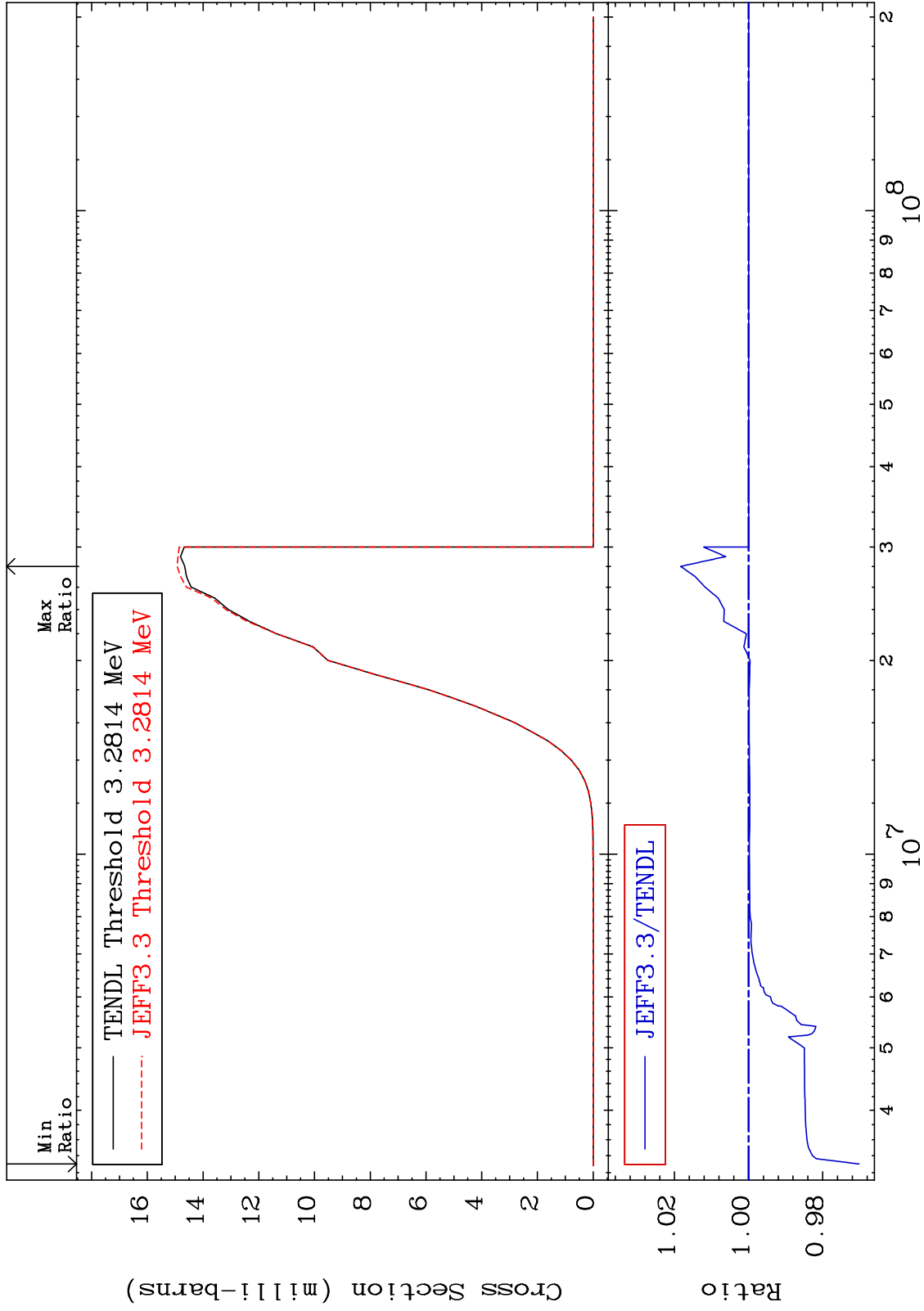
MAT 6719

(n, d)

67-Ho-163

Cross Section

-2.985 To 1.836 %



53

Incident Energy (eV)

67-Ho-163

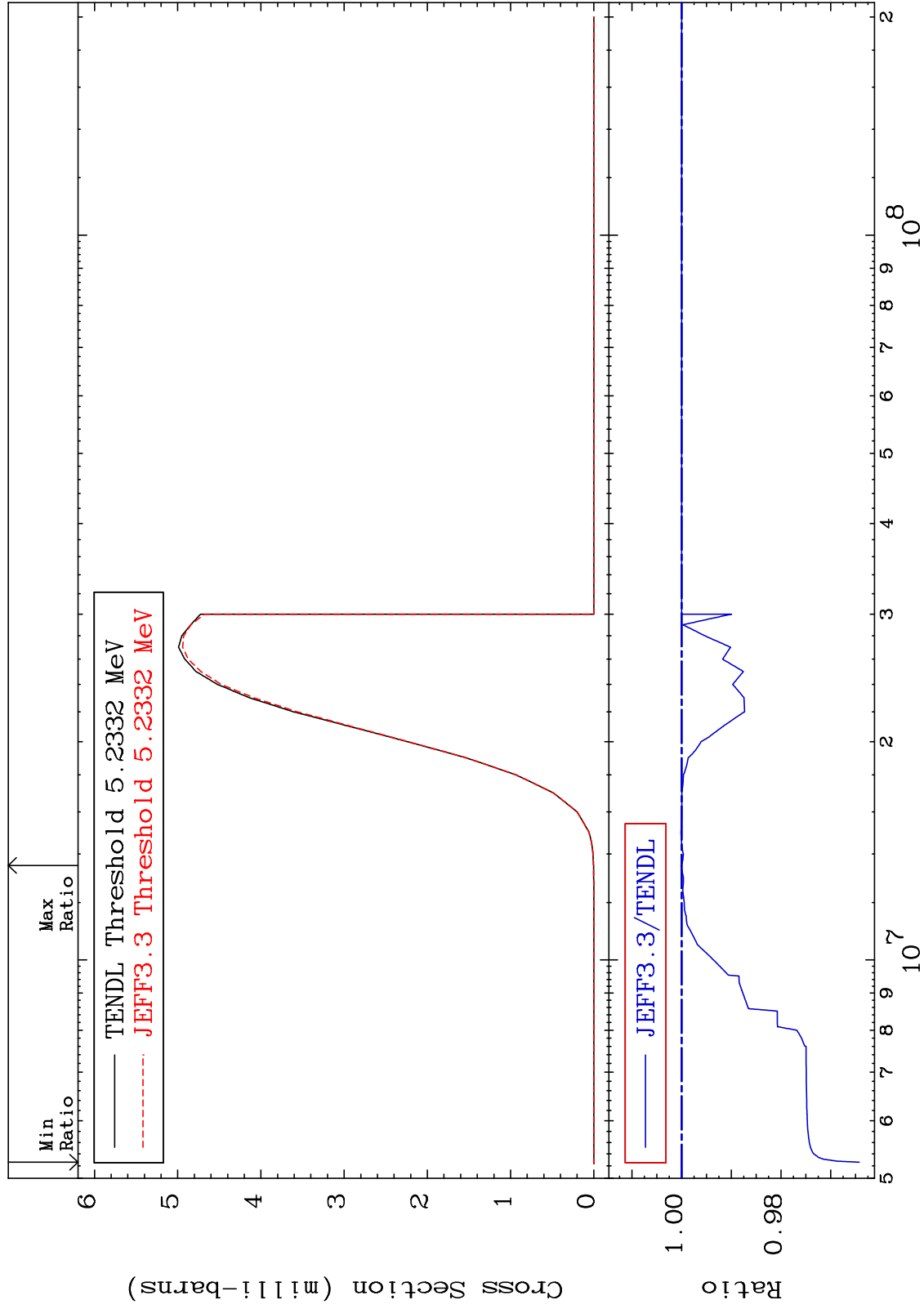
MAT 6719

(n, t)

67-Ho-163

Cross Section

-3.575 To 0.012 %



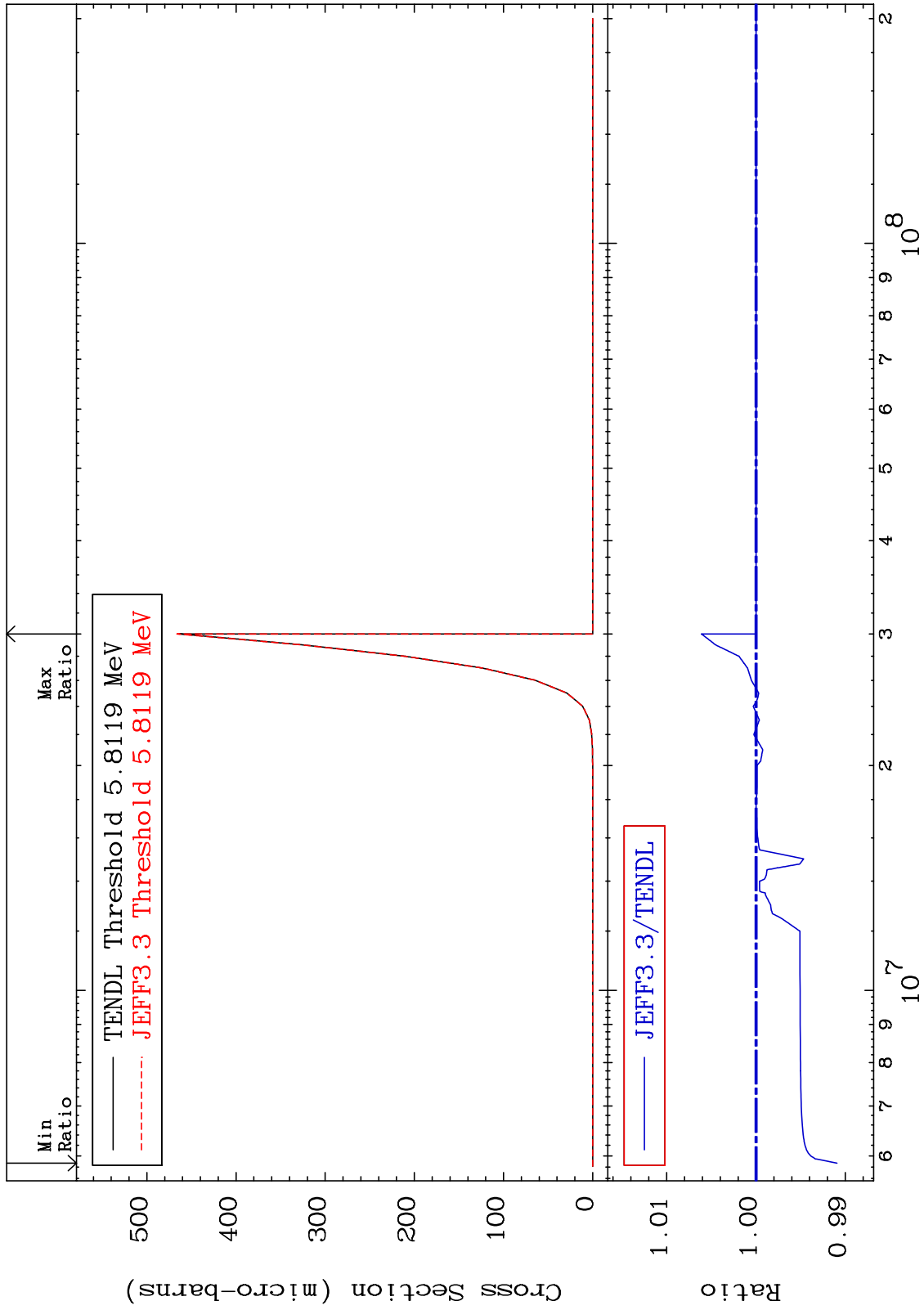
MAT 6719

(n, He-3)

67-Ho-163

Cross Section

-0.907 To 0.611 %





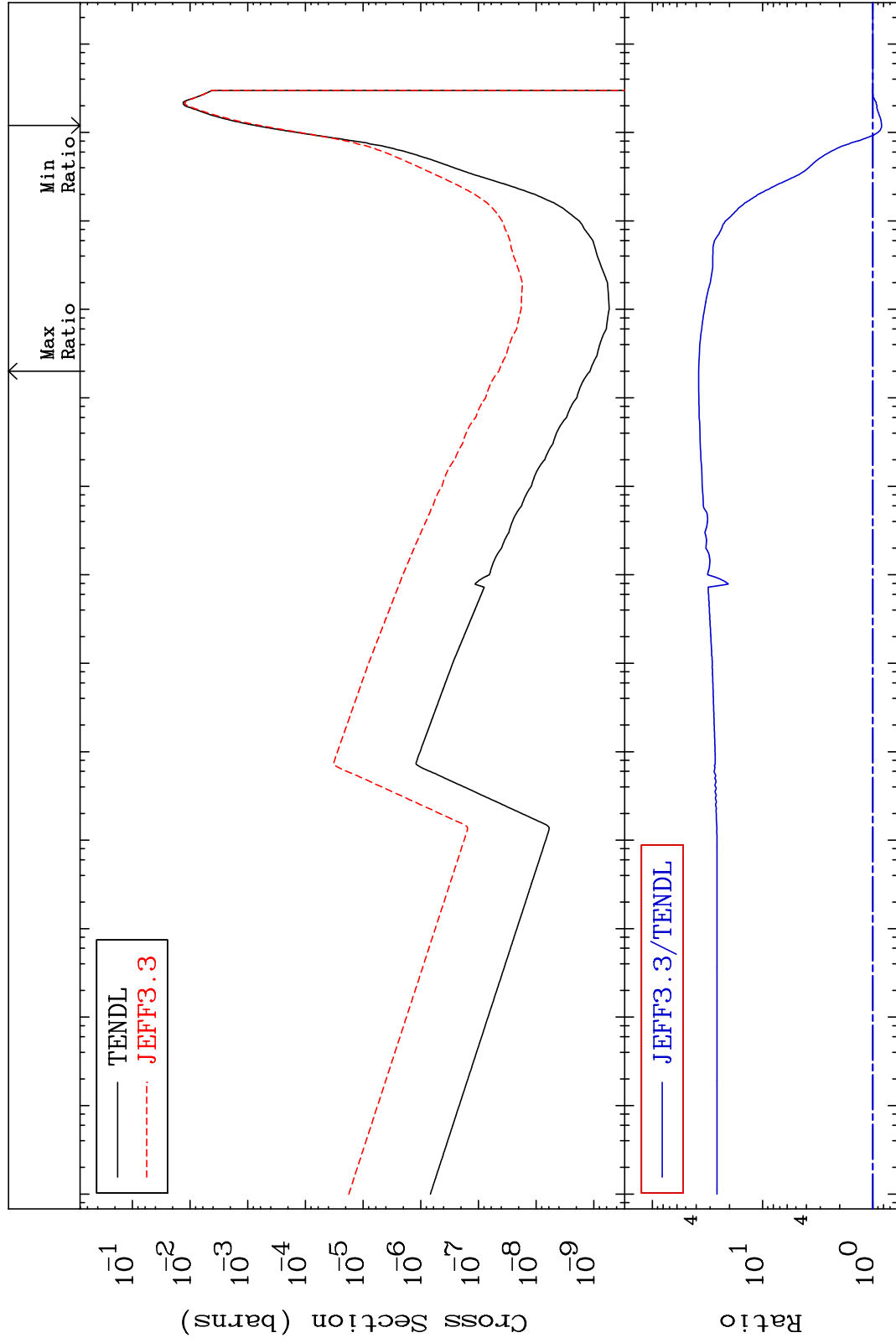
MAT 6719

(n,  $\alpha$ )

67-Ho-163

Cross Section

-16.66 To 3702. %



Incident Energy (eV)

67-Ho-163

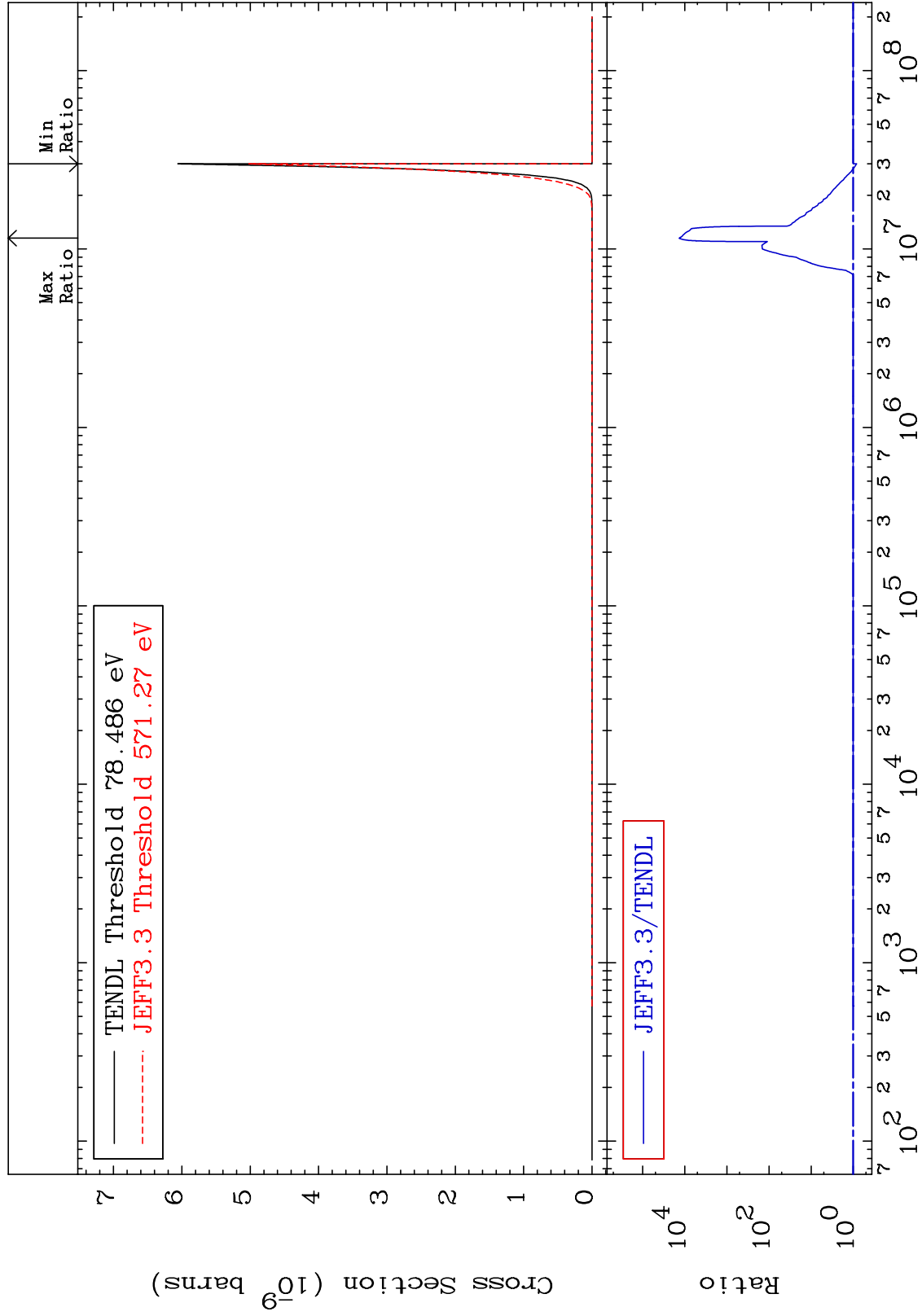
MAT 6719

(n,2α)

67-Ho-163

Cross Section

-17.18 To 9999. %



57

Incident Energy (eV)

67-Ho-163

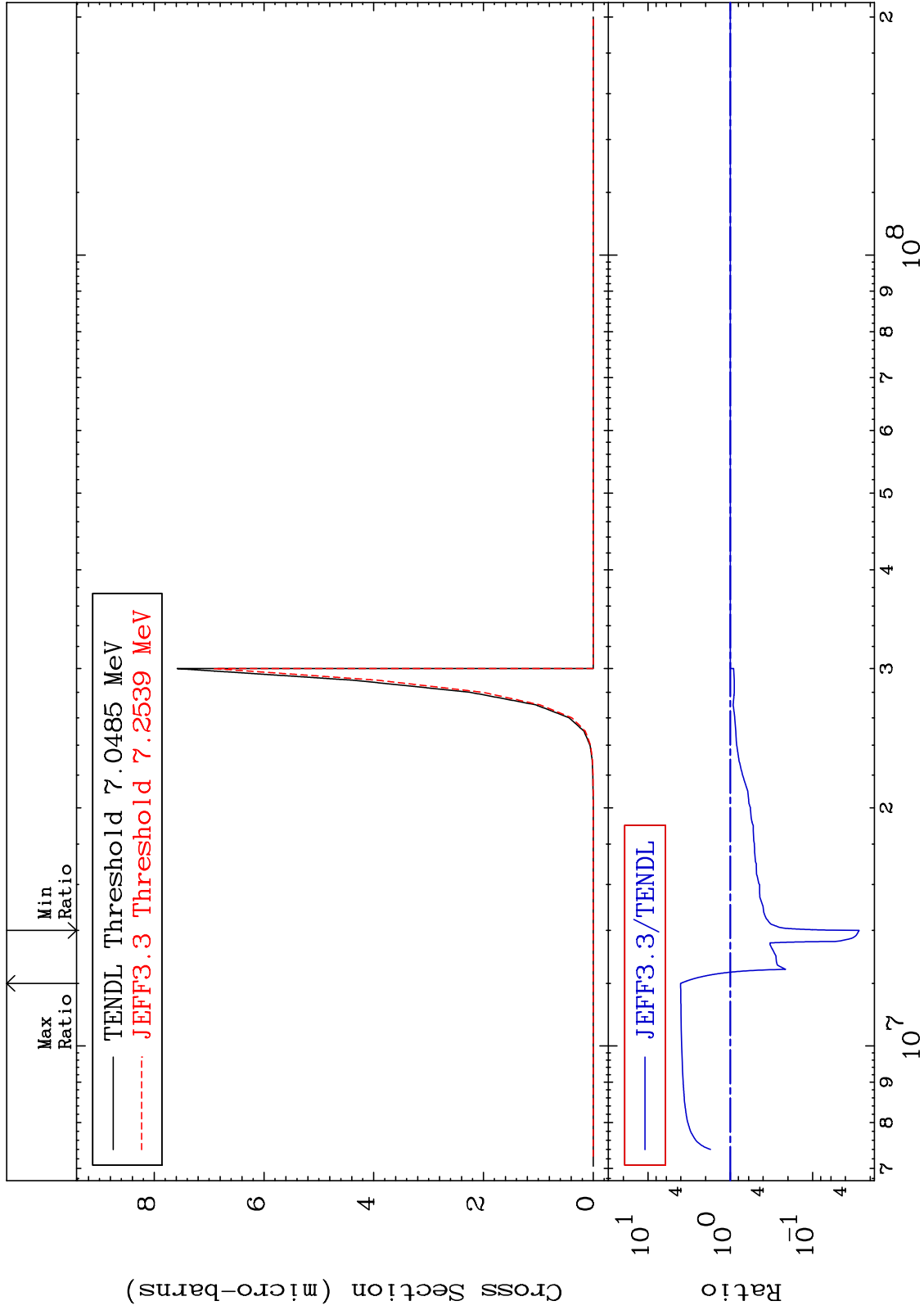
MAT 6719

(n,2p)

67-Ho-163

Cross Section

-97.28 To 302.5 %



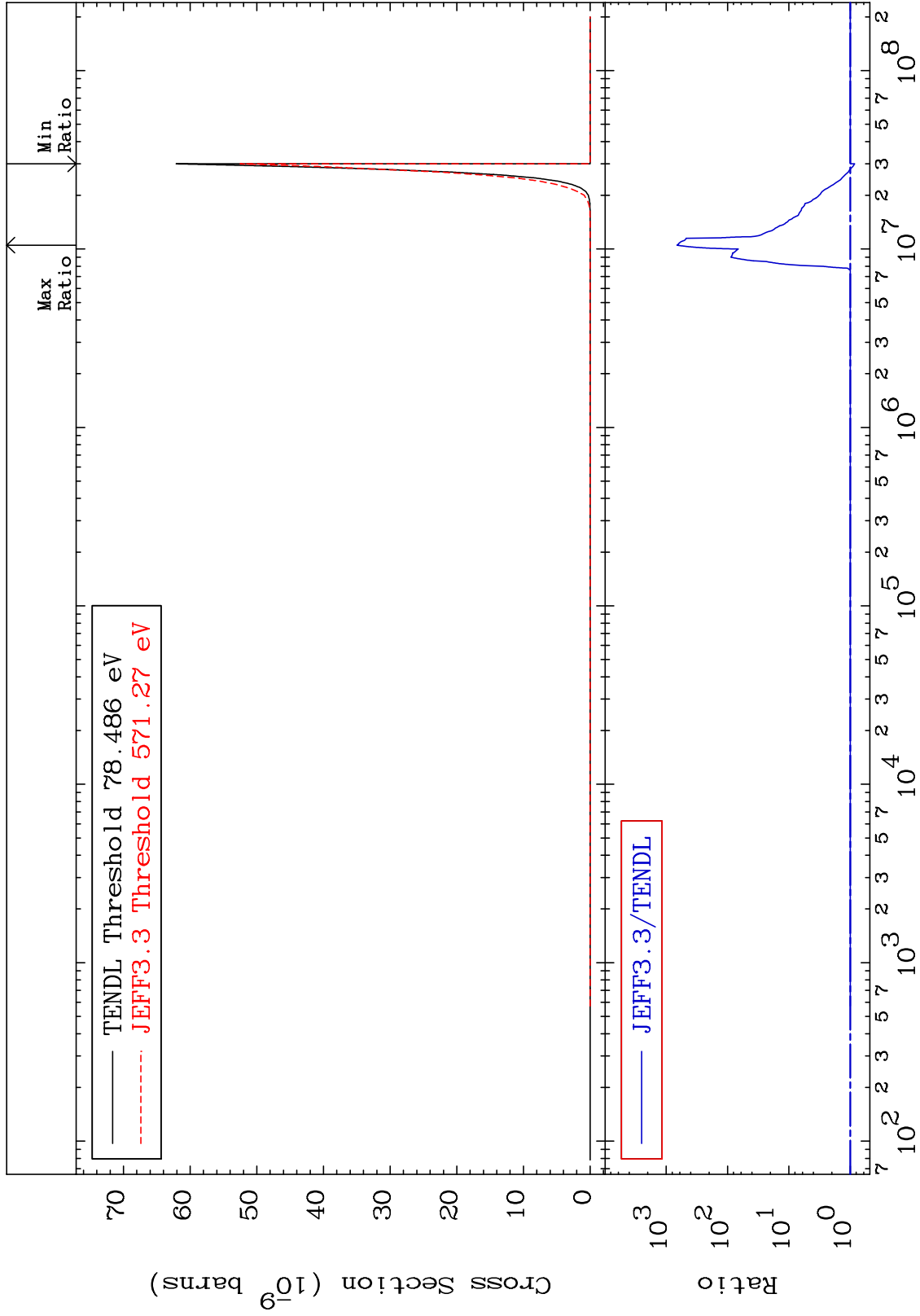
MAT 6719

(n,p)  $\alpha$

Cross Section

67-Ho-163

-15.45 To 9999. %



59

Incident Energy (eV)

67-Ho-163

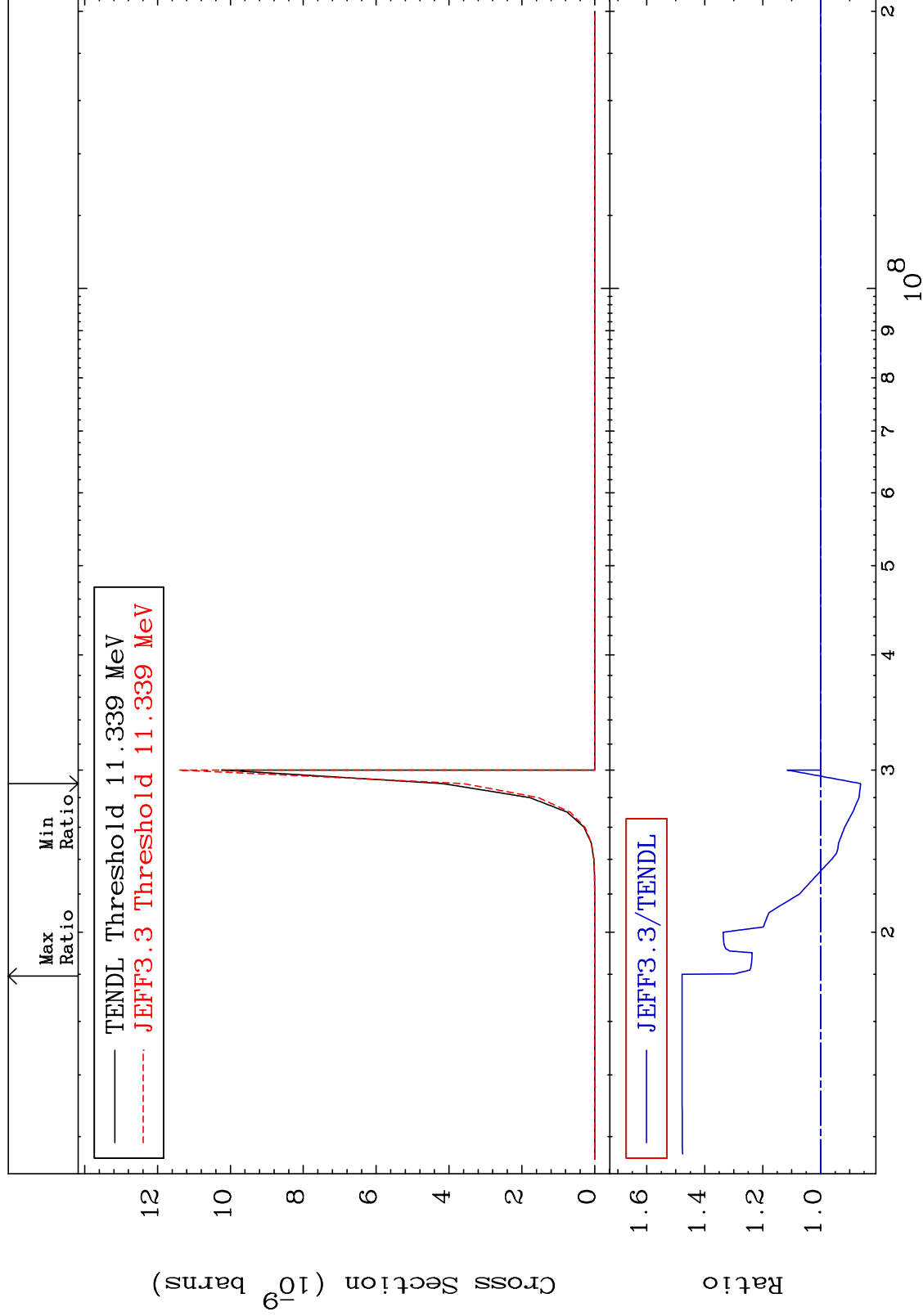
MAT 6719

(n,p) d

67-Ho-163

Cross Section

-13.79 To 47.81 %



60

Incident Energy (eV)

67-Ho-163

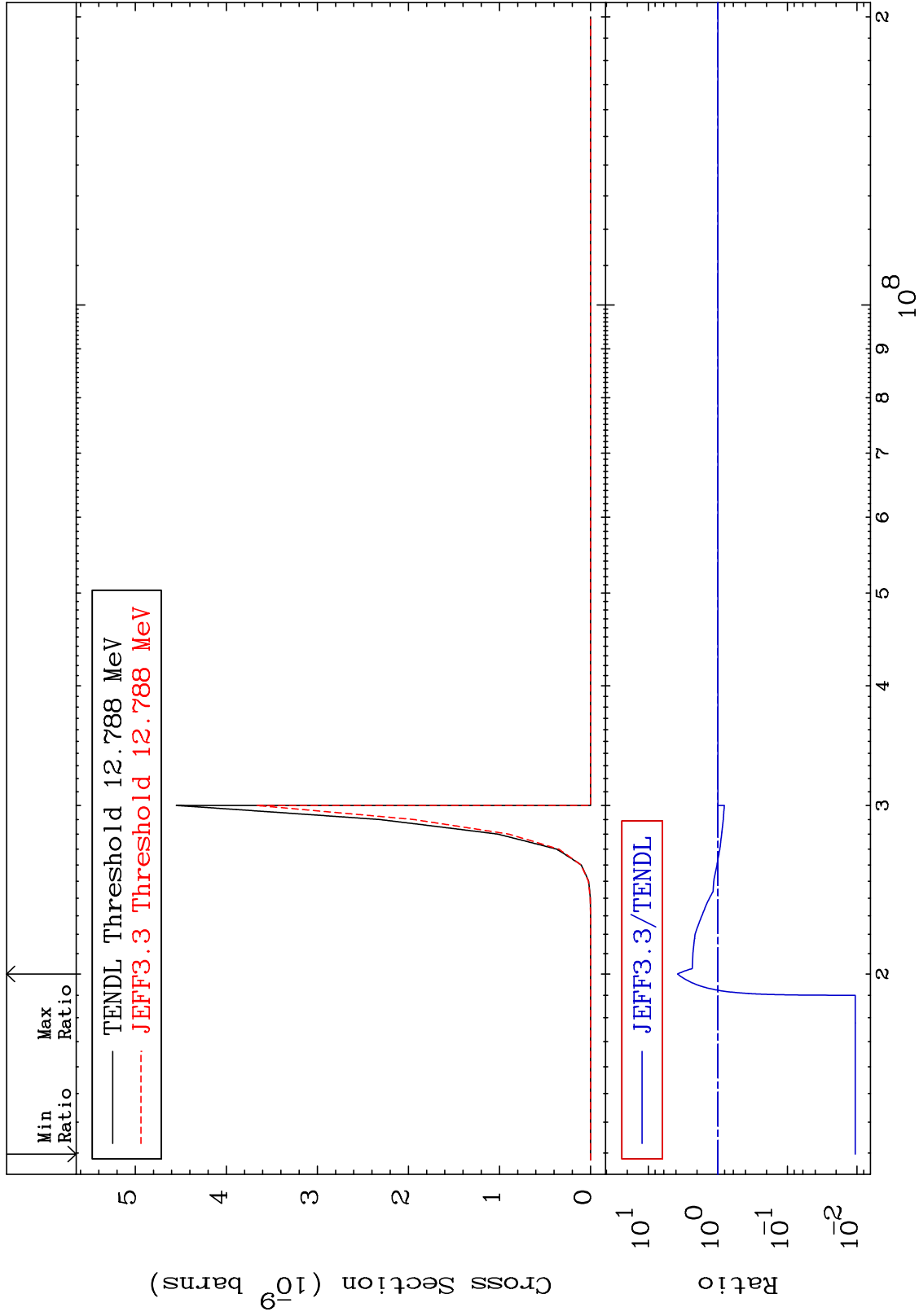
MAT 6719

(n,p) t

67-Ho-163

Cross Section

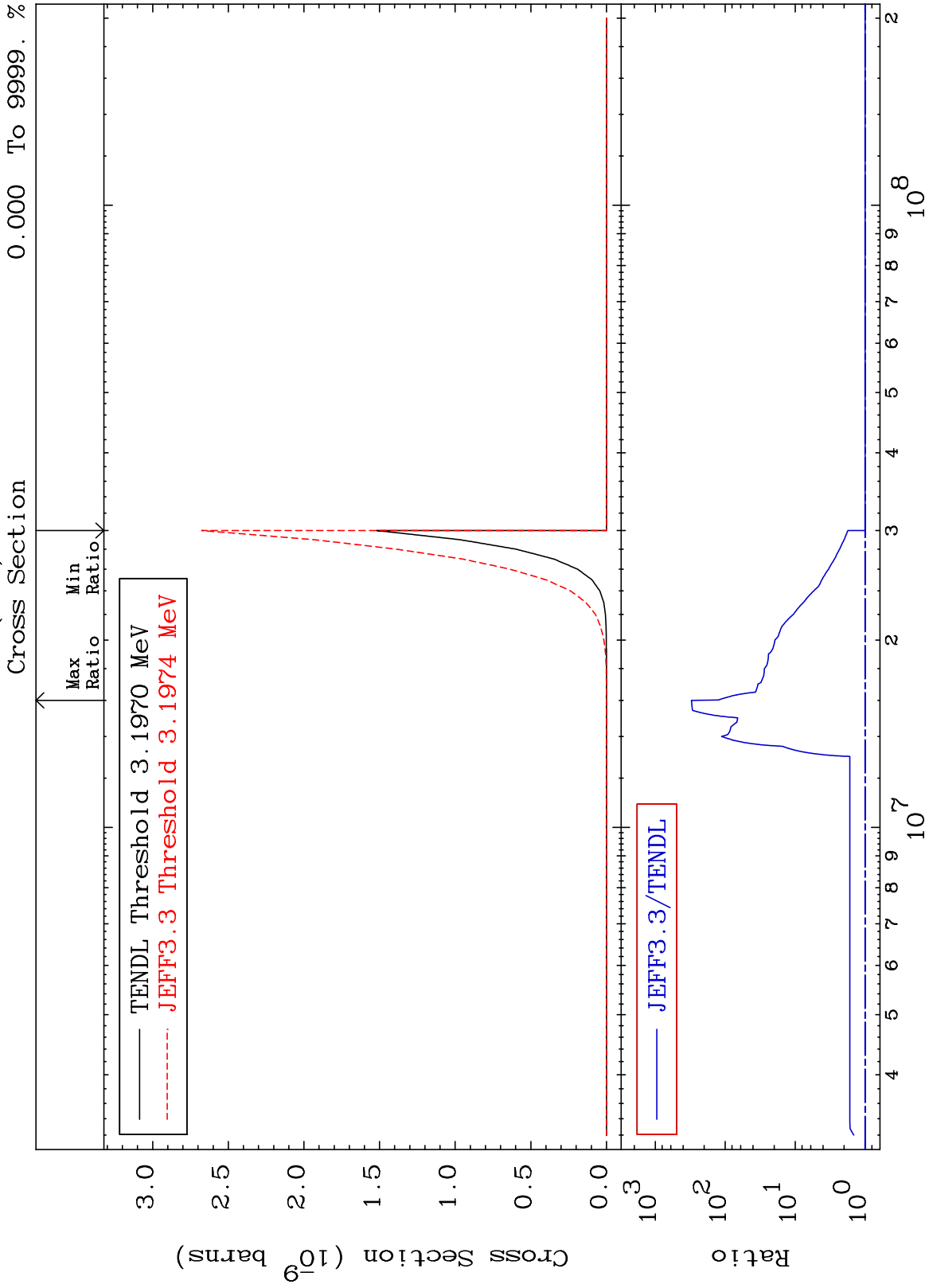
-98.94 To 280.3 %



MAT 6719

(n,d)  $\alpha$

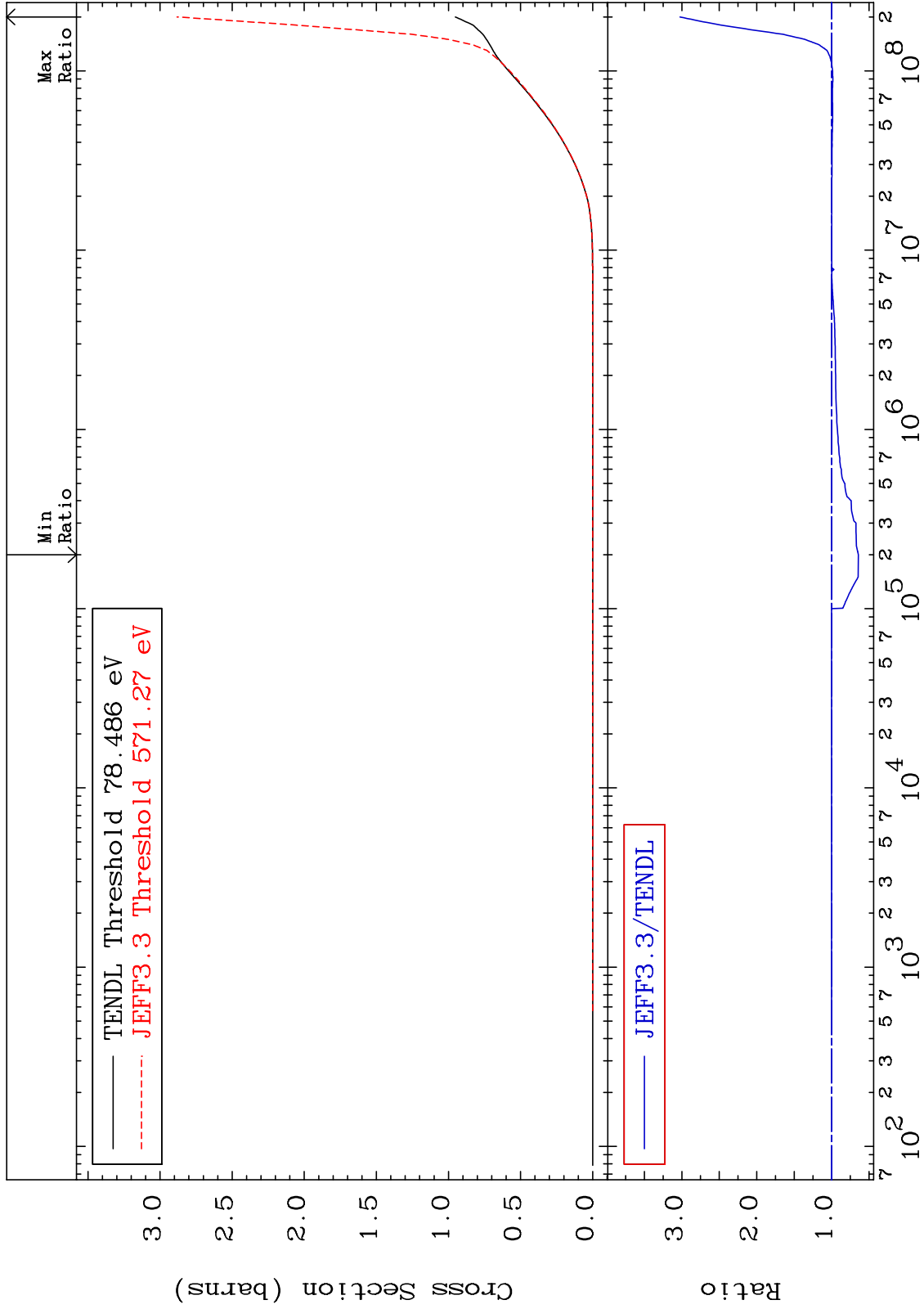
67-Ho-163  
To 9999. %  
0.000



MAT 6719

Hydrogen Production  
Cross Section

67-Ho-163  
-35.78 To 202.4 %



63

Incident Energy (eV)

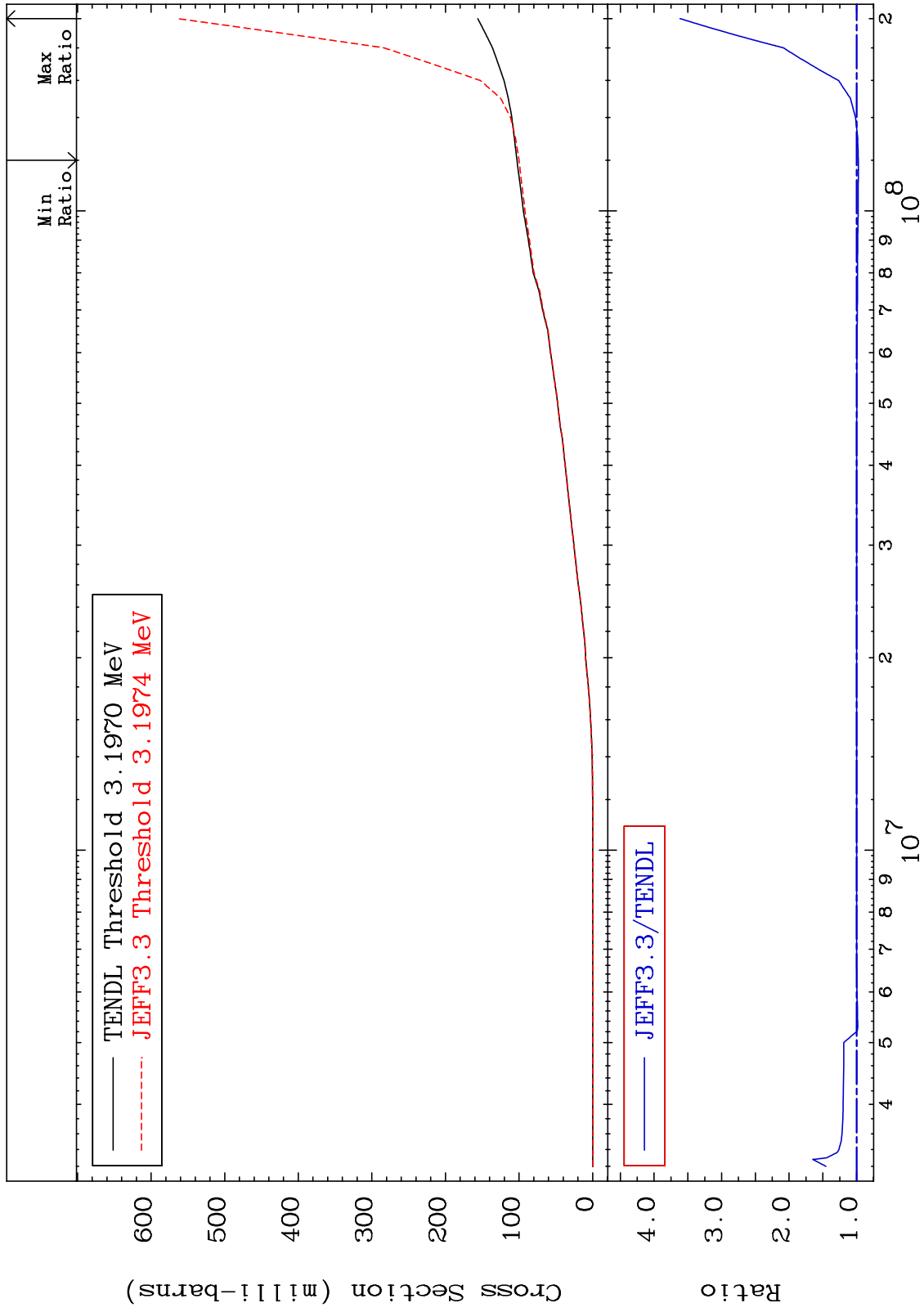
67-Ho-163



MAT 6719

Deuterium Production  
Cross Section

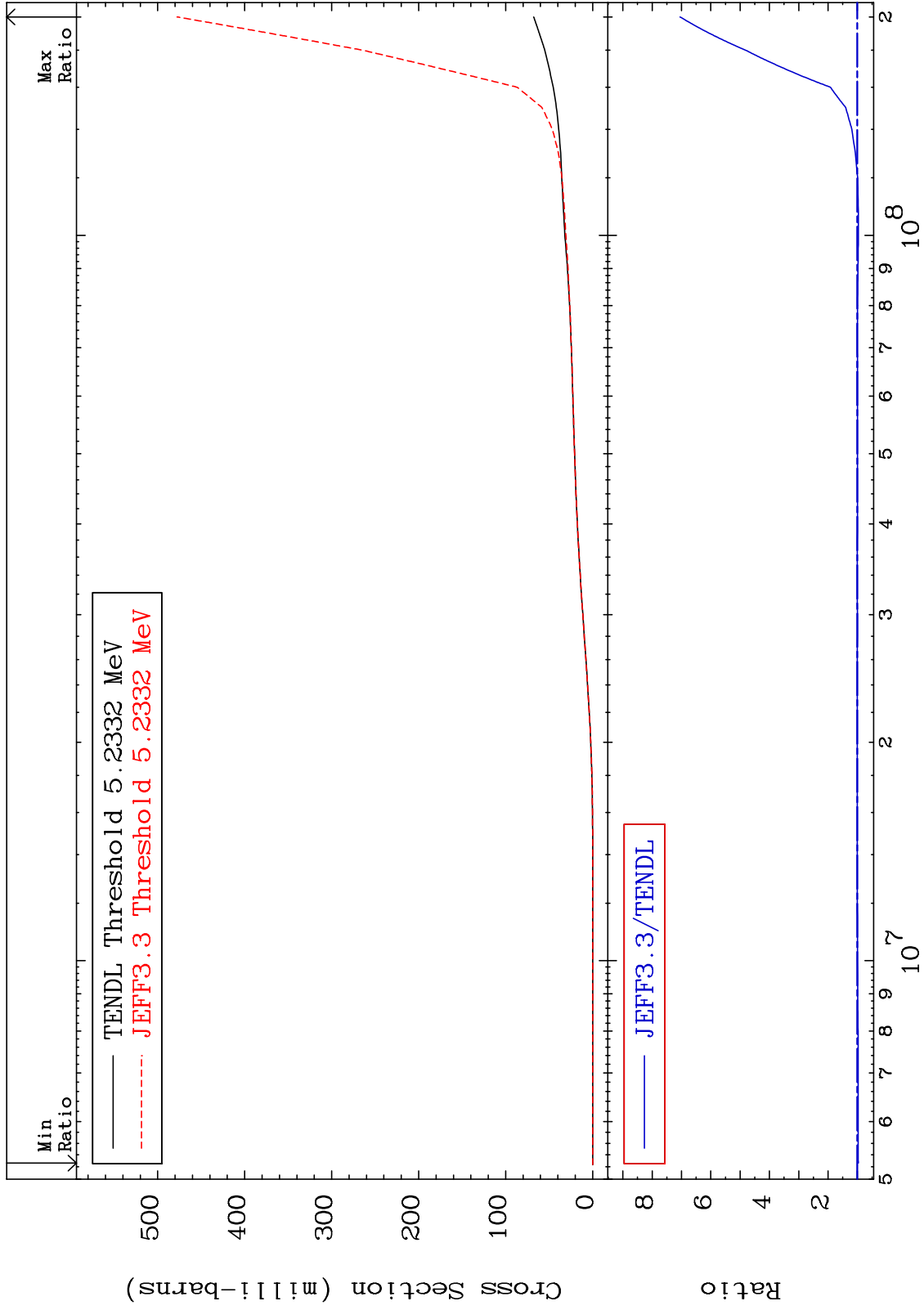
67-Ho-163  
-2.688 To 261.6 %



MAT 6719

Tritium Production  
Cross Section

67-Ho-163  
-3.575 To 604.9 %



65

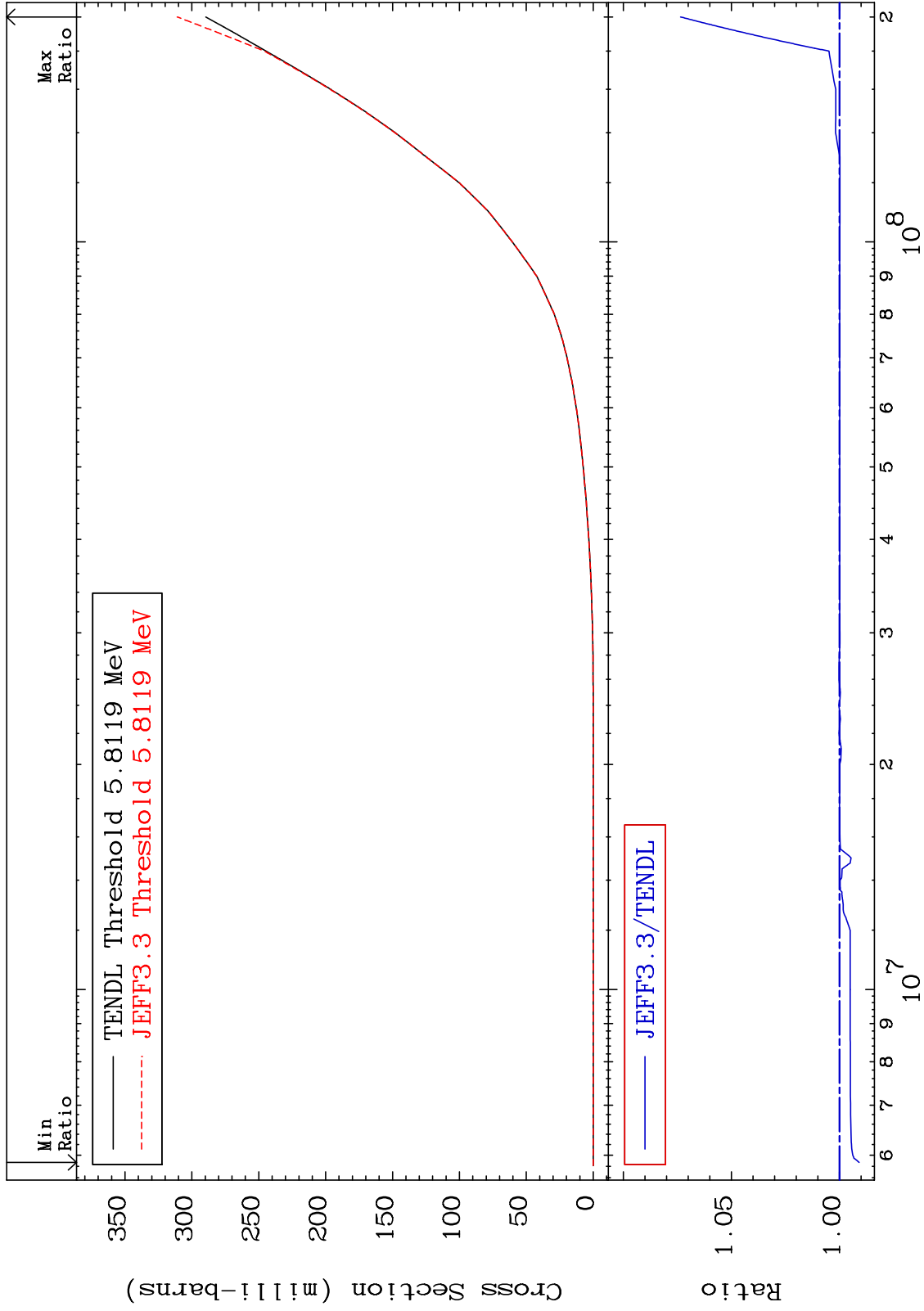
Incident Energy (eV)

67-Ho-163

MAT 6719

He-3 Production  
Cross Section

67-Ho-163  
-0.907 To 7.351 %



66

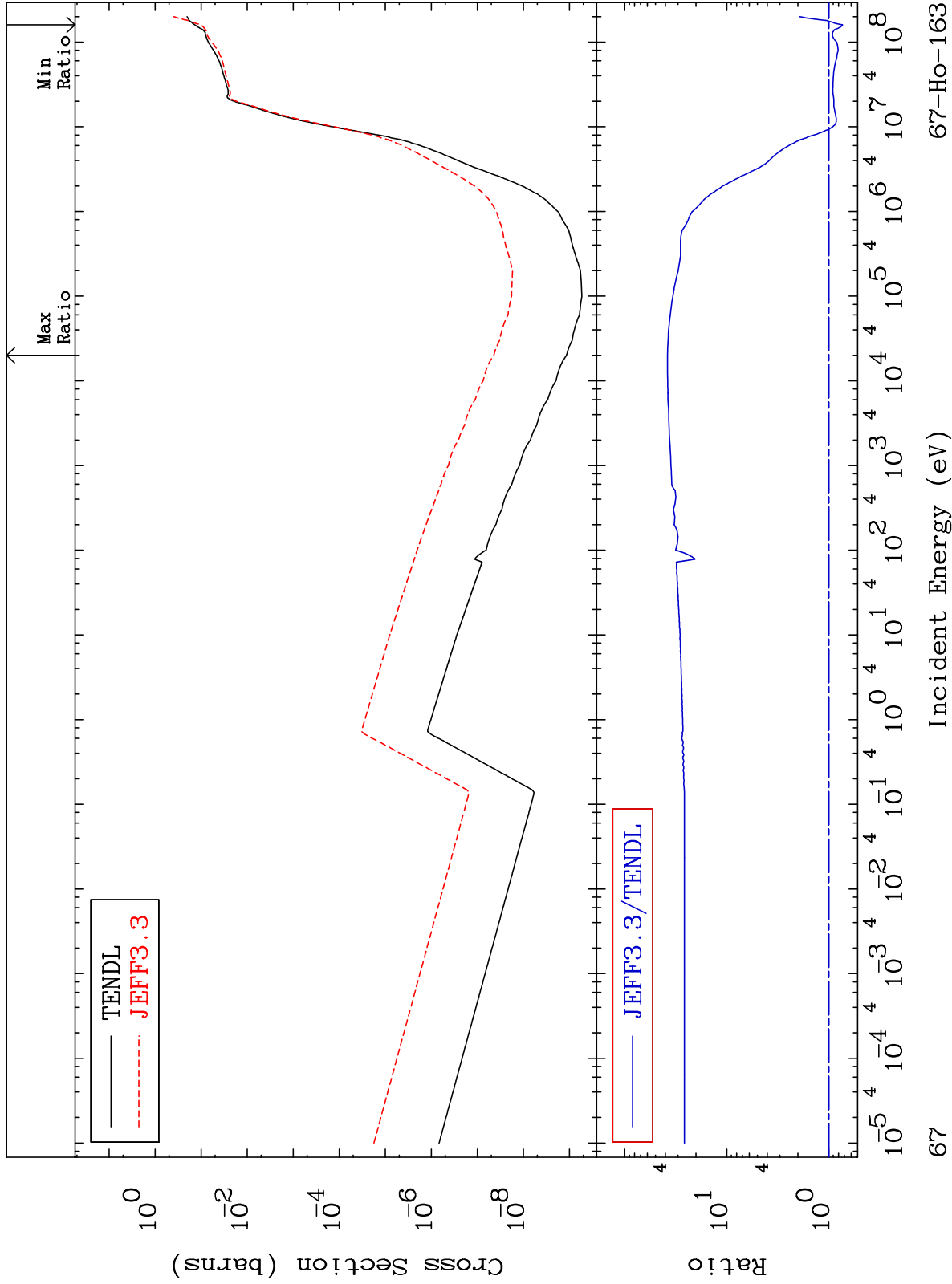
Incident Energy (eV)

67-Ho-163

MAT 6719

He-4 Production  
Cross Section

67-Ho-163  
-27.16 To 3702. %



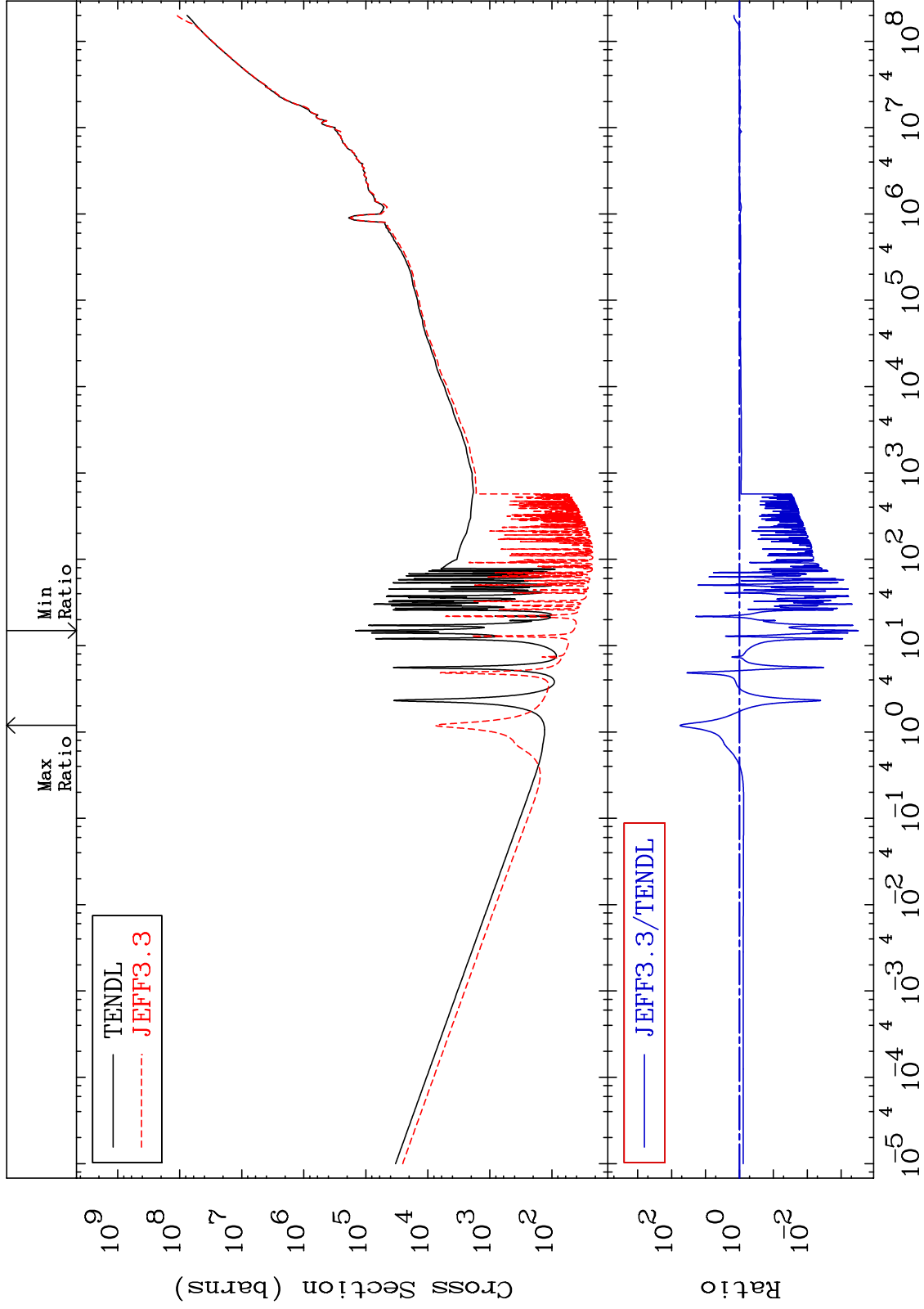
67

67-Ho-163

MAT 6719

Kerma total (eV-barns)  
Cross Section

67-Ho-163  
-99.97 To 5533. %



68

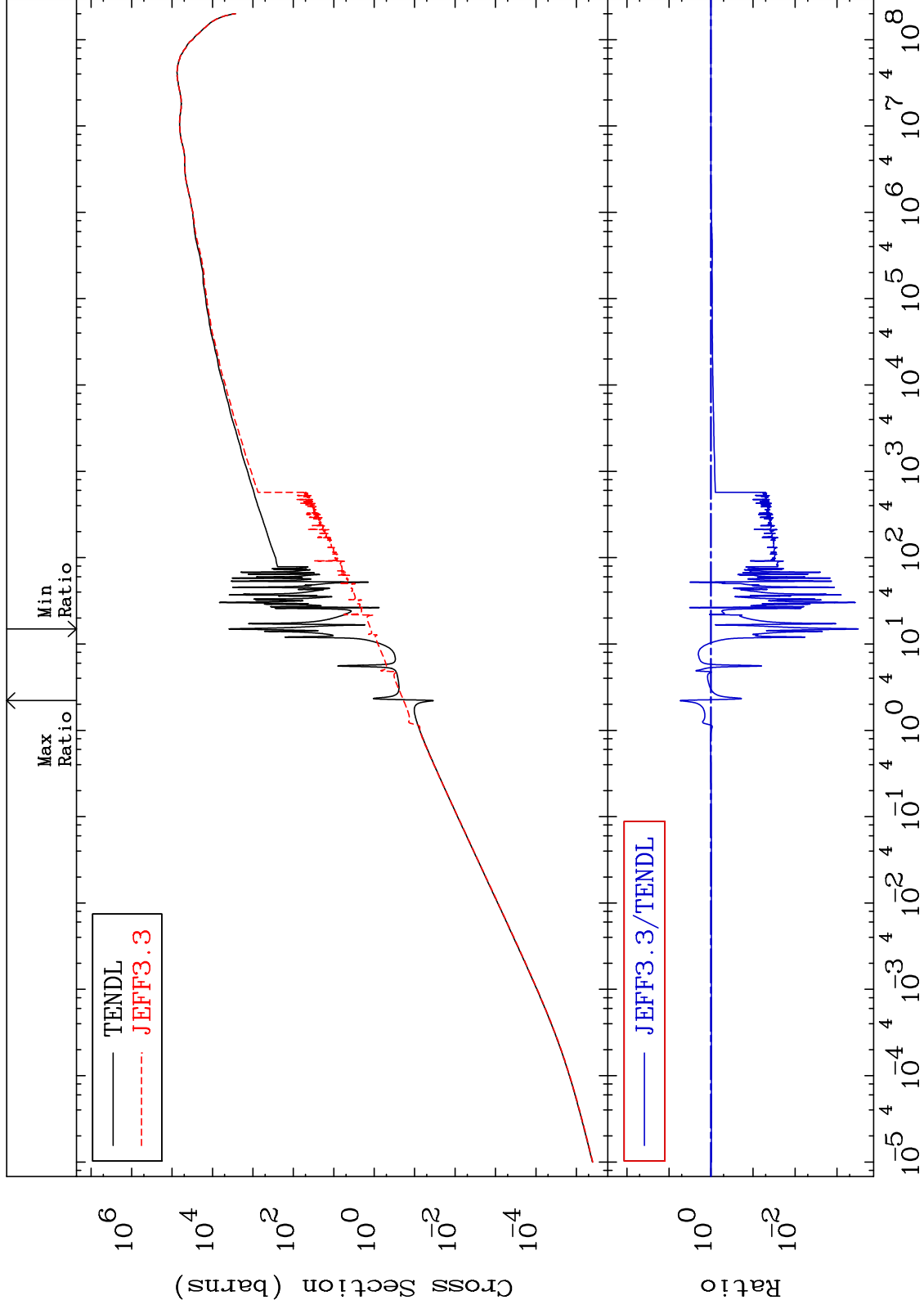
Incident Energy (eV)

67-Ho-163

MAT 6719

Kerma elastic  
Cross Section

67-Ho-163  
-99.97 To 447.1 %



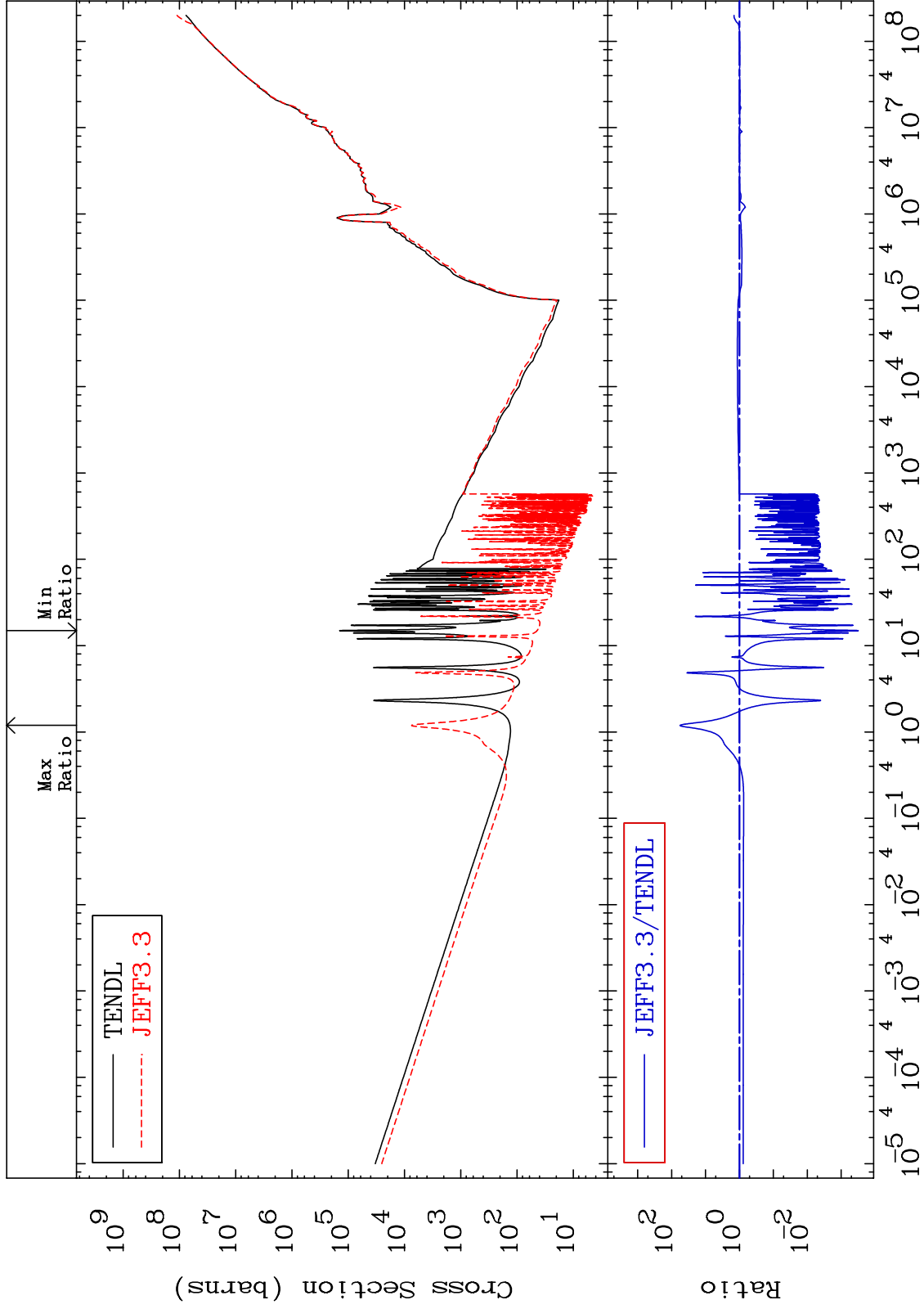
— TENDL  
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 6719

Kerma non-elastic (all but mt2)  
Cross Section

67-Ho-163  
-99.97 To 5536. %



70

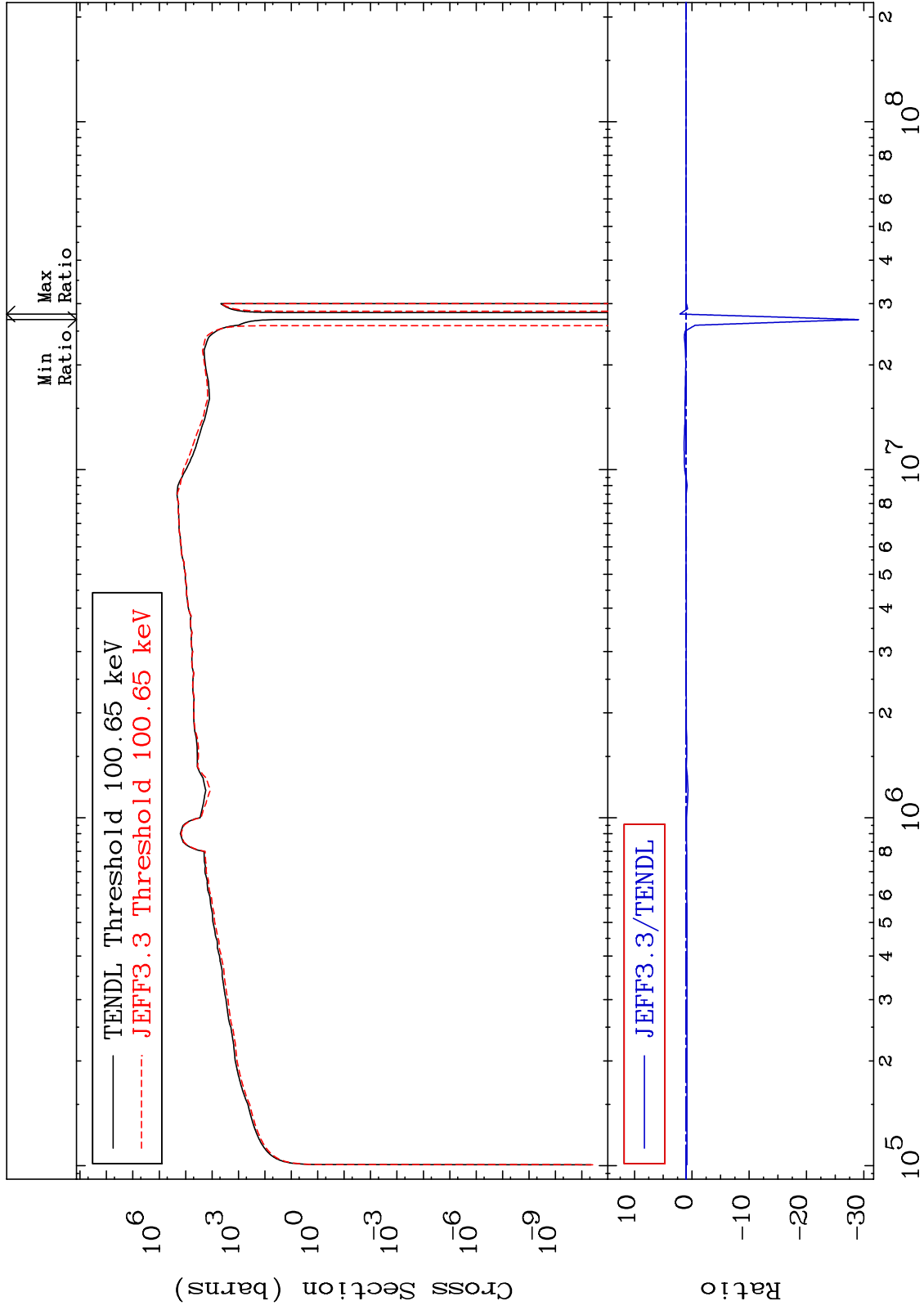
Incident Energy (eV)

67-Ho-163

MAT 6719

Kerma inelastic (mt51-91)  
Cross Section

67-Ho-163  
-3004. To 106.1 %



71

Incident Energy (eV)

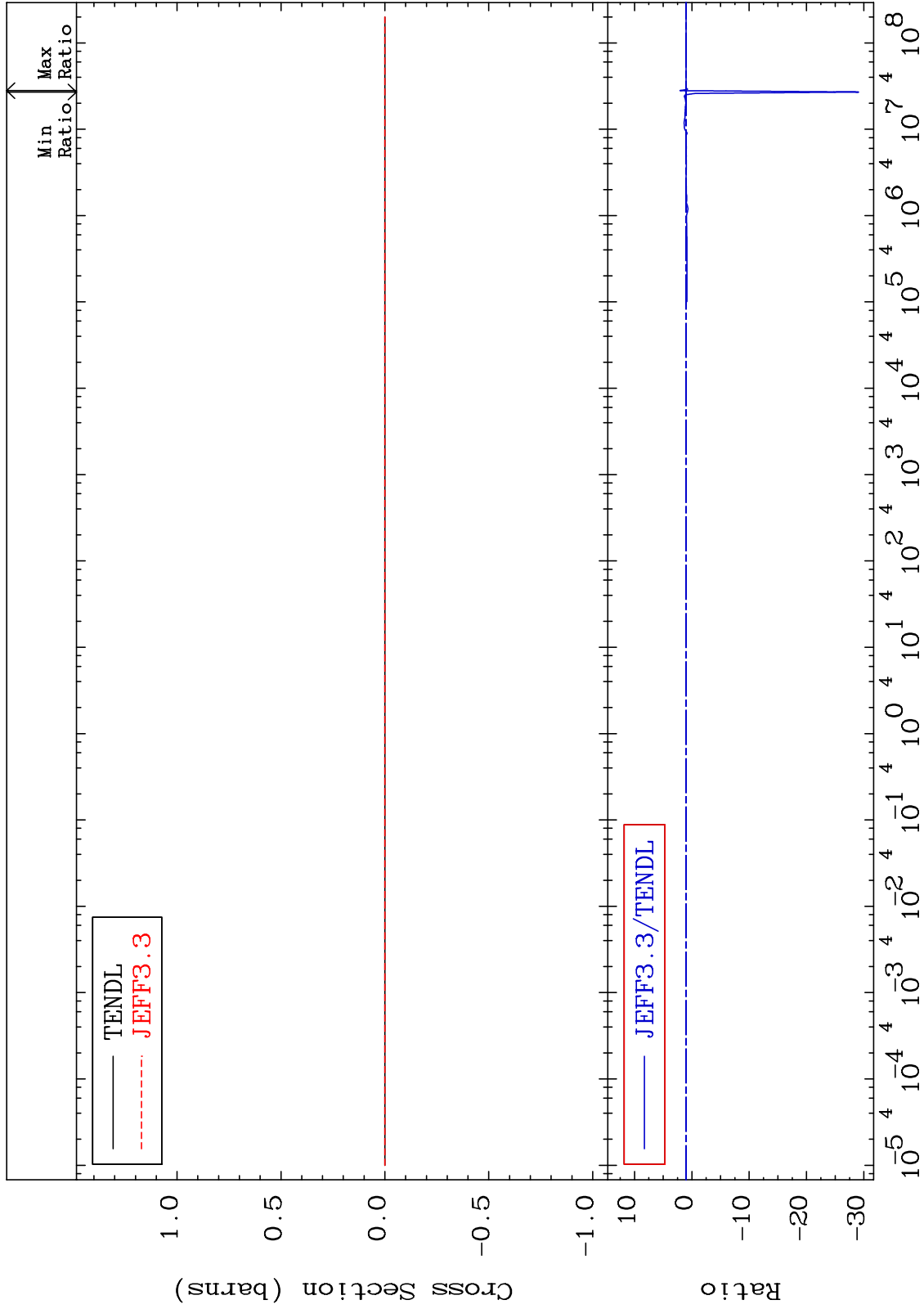
67-Ho-163



MAT 6719

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

67-Ho-163  
-3004. To 106.1 %



72

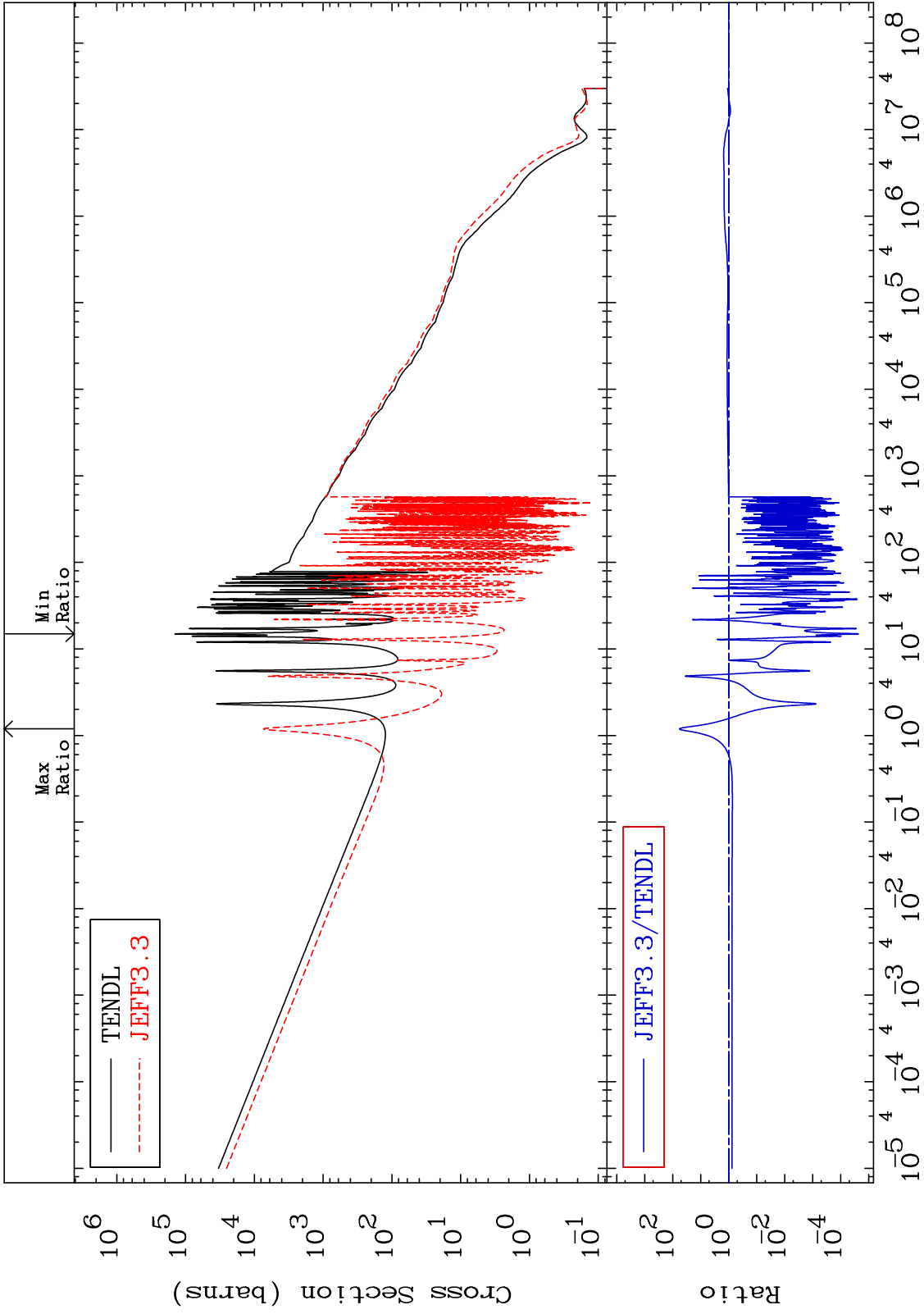
Incident Energy (eV)

67-Ho-163

MAT 6719

Kerma capture (mt102)  
Cross Section

67-Ho-163  
-100.0 To 5675. %



73

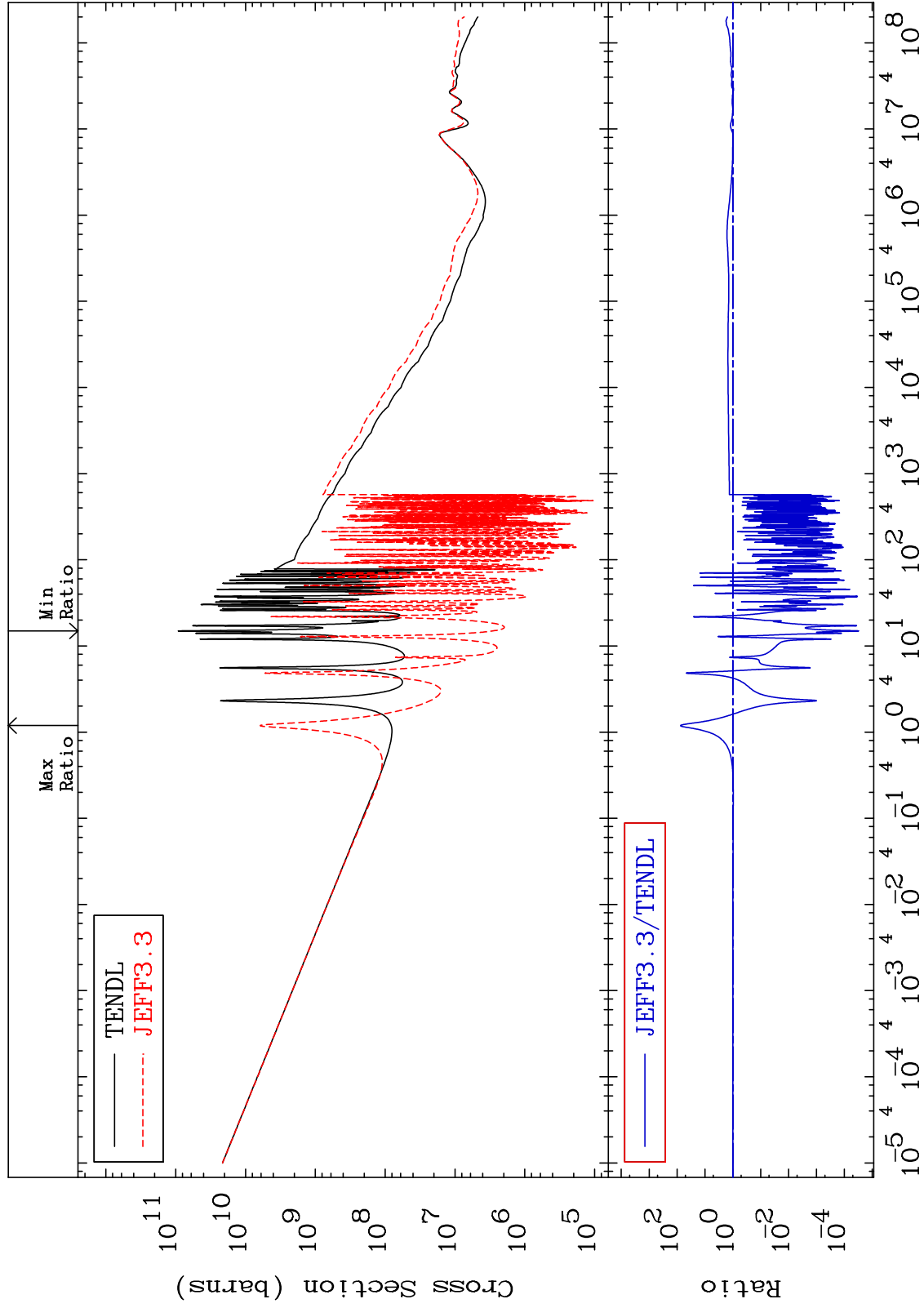
Incident Energy (eV)

67-Ho-163

MAT 6719

Total photon (eV-barns)  
Cross Section

67-Ho-163  
-100.0 To 7443. %



74

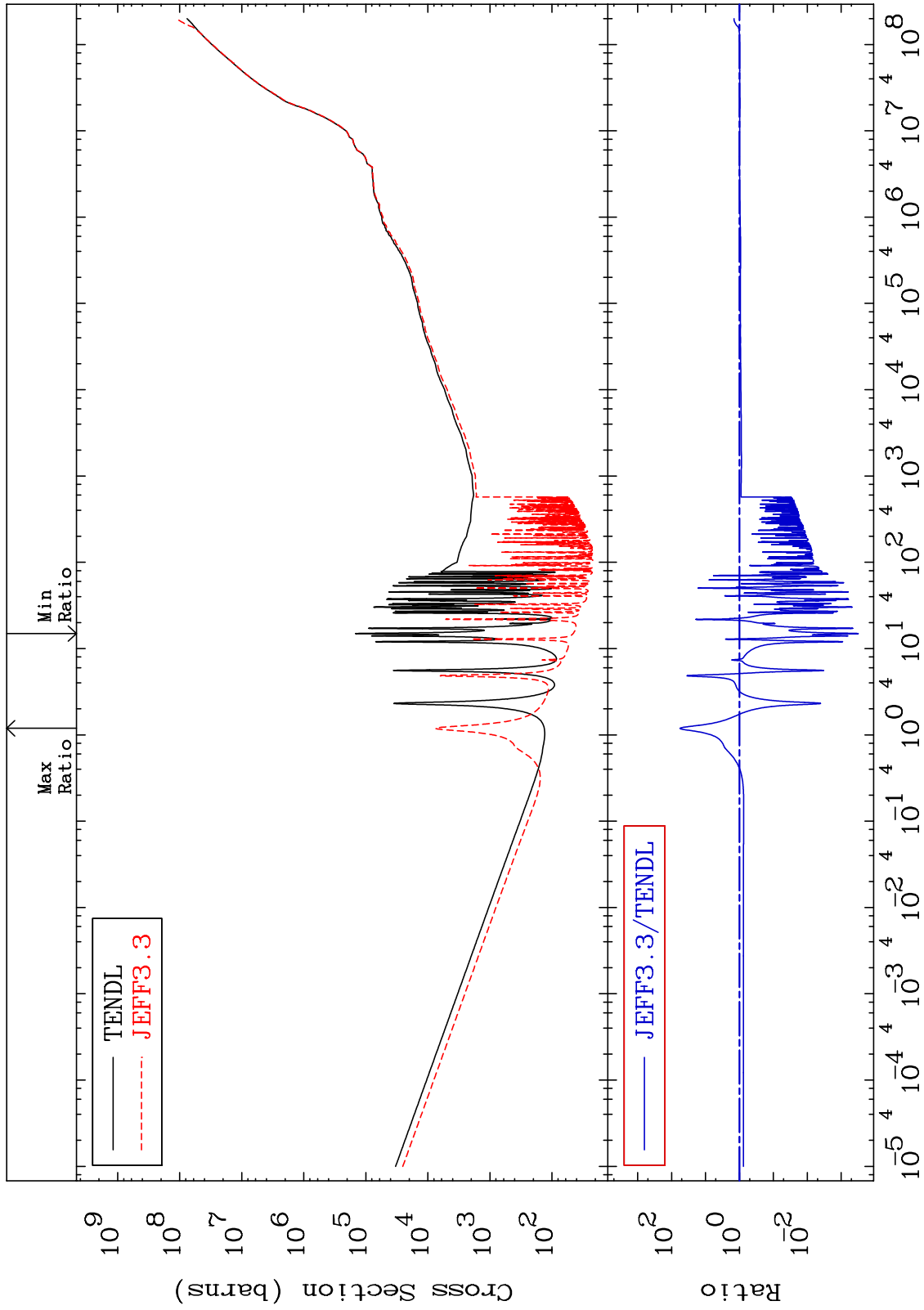
Incident Energy (eV)

67-Ho-163

MAT 6719

Total kinematic kerma (high limit)  
Cross Section

67-Ho-163  
-99.97 To 5532. %



75

Incident Energy (eV)

67-Ho-163

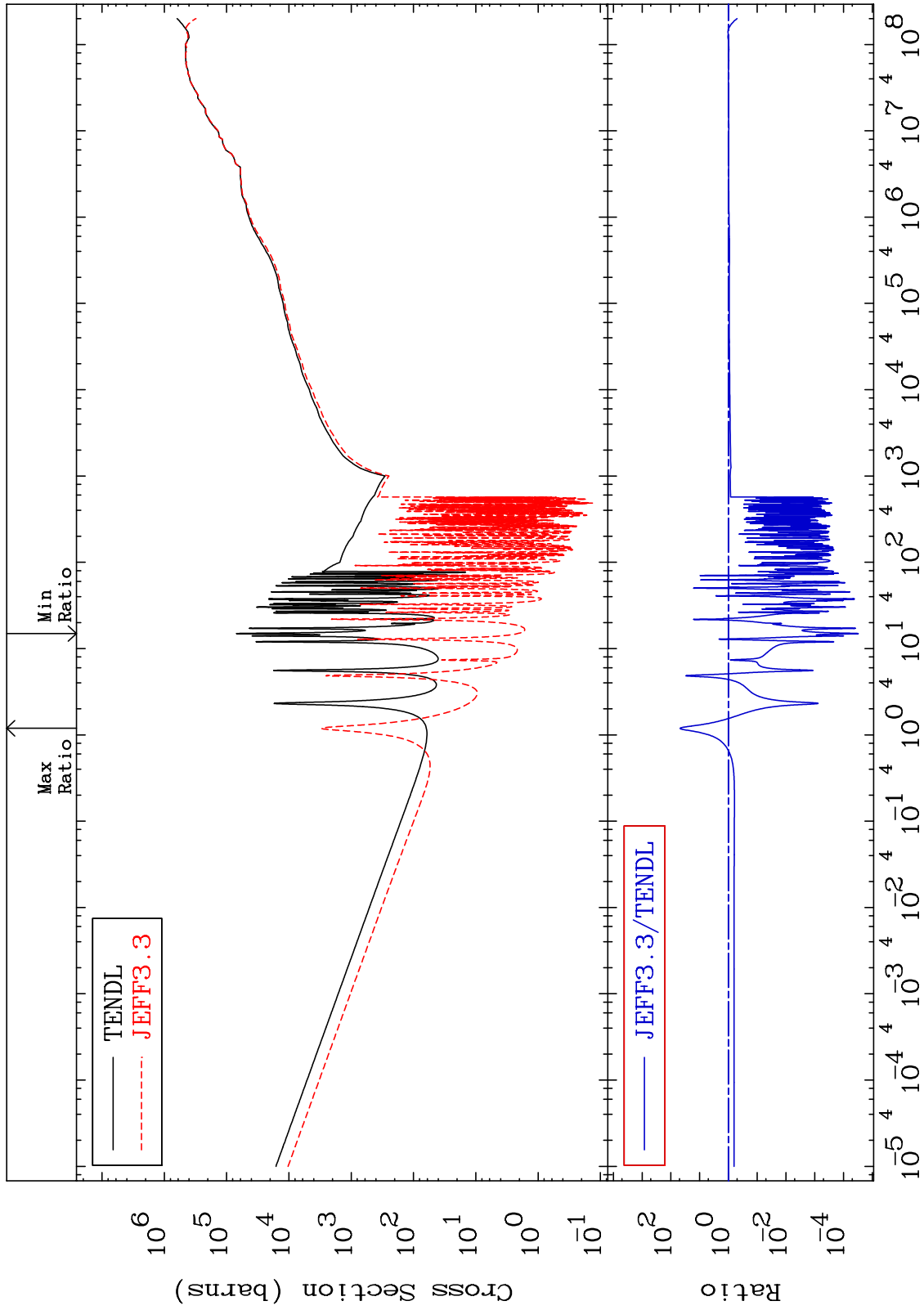
MAT 6719

Dpa total (eV-barns)

67-Ho-163

-100.0 To 4715. %

Cross Section



76

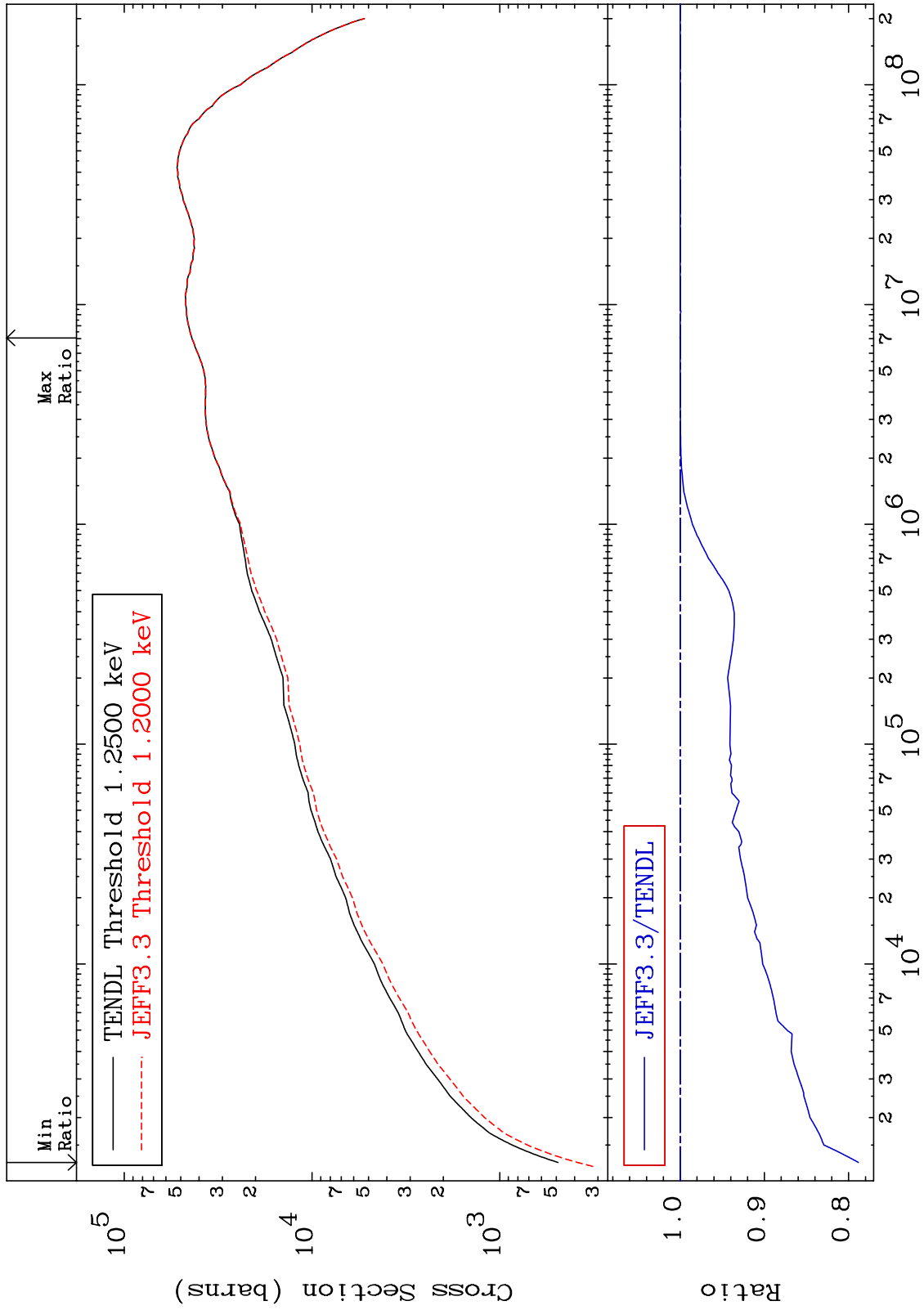
Incident Energy (eV)

67-Ho-163

MAT 6719

Dpa elastic (mt2)  
Cross Section

67-Ho-163  
-21.16 To 0.021 %



77

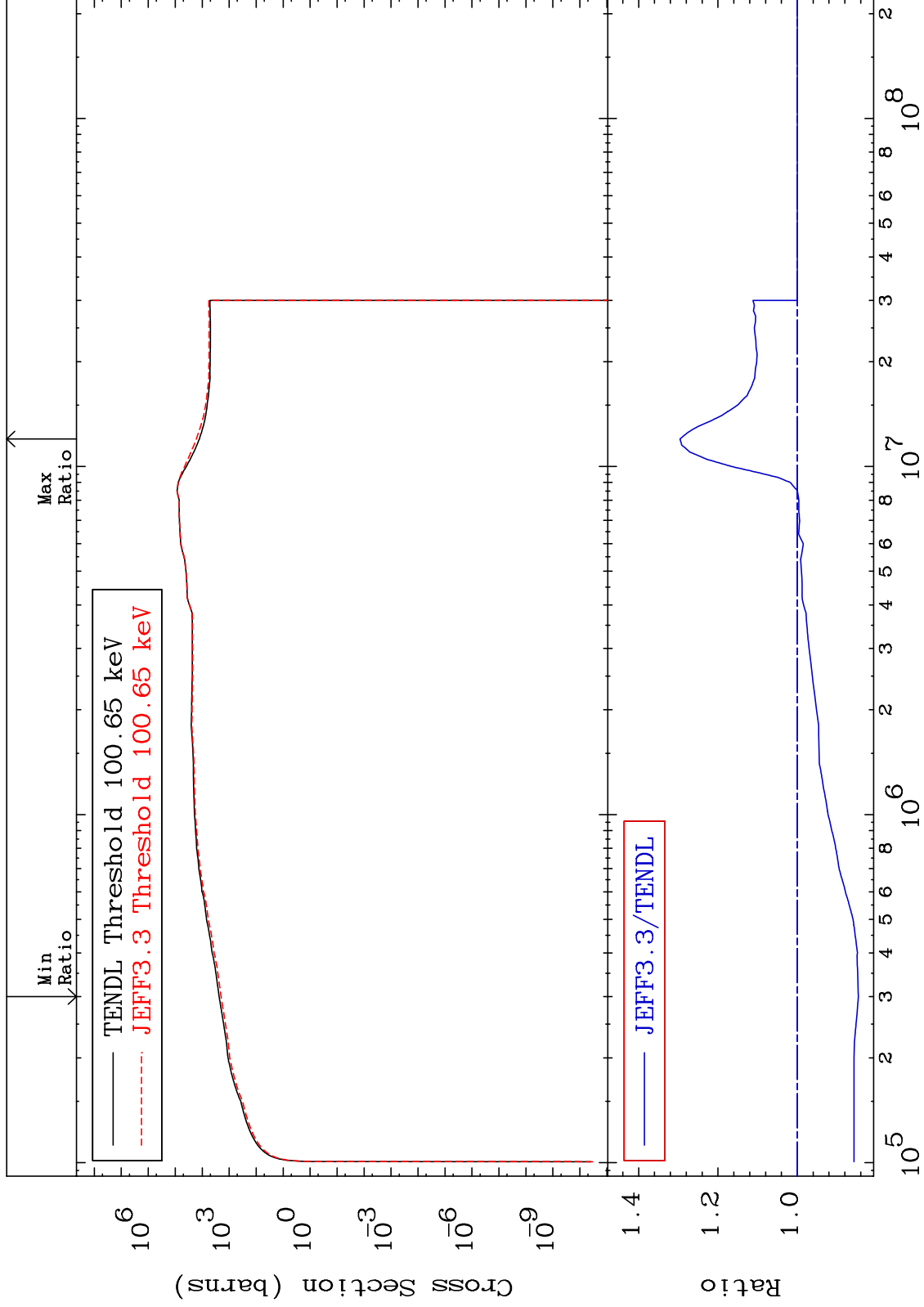
Incident Energy (eV)

67-Ho-163

MAT 6719

Dpa inelastic (mt51-91)  
Cross Section

67-Ho-163  
-15.41 To 29.57 %



78

Incident Energy (eV)

67-Ho-163

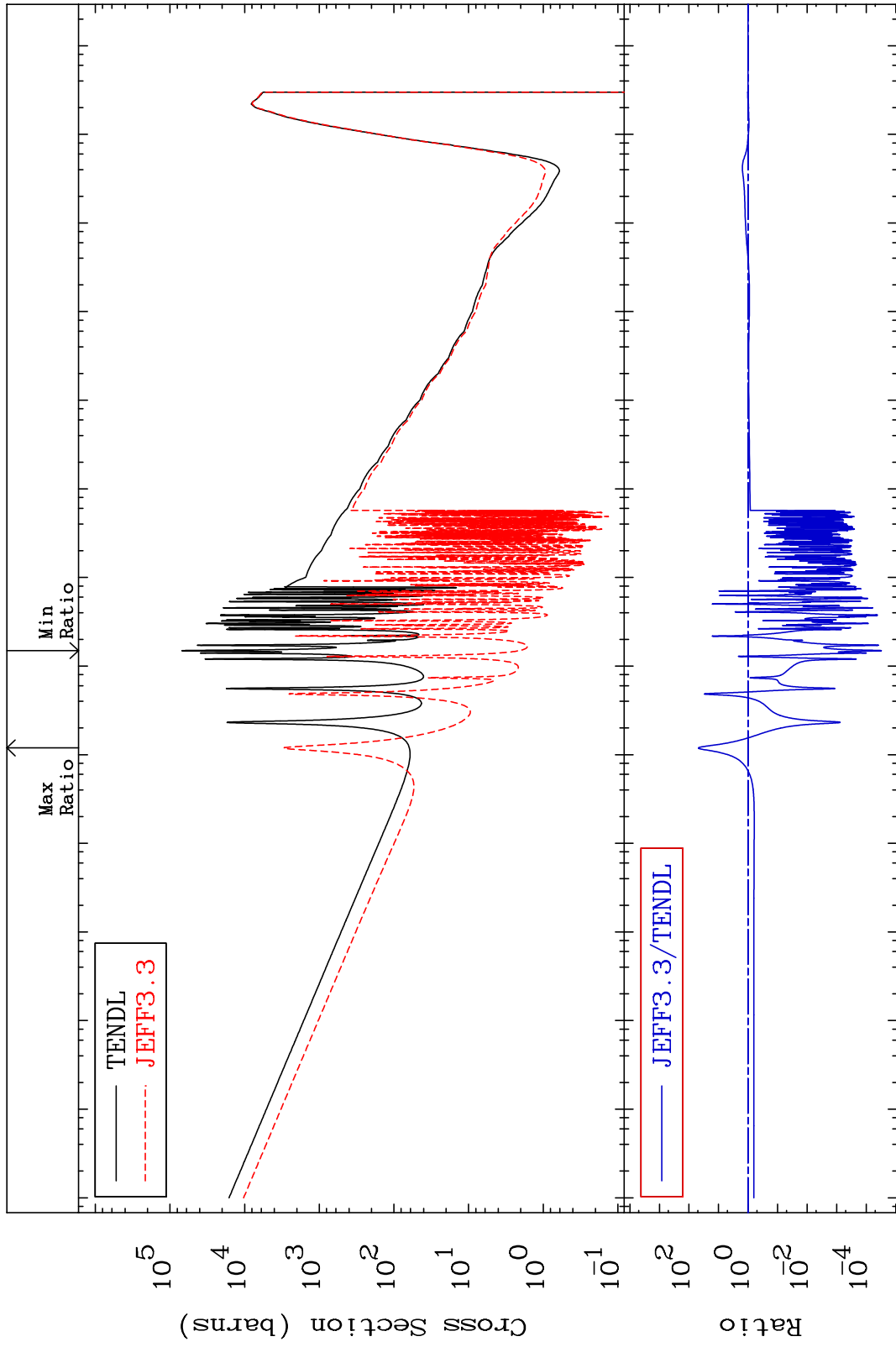
MAT 6719

Dpa disappearance (mt102 -120)

67-Ho-163

-100.0 To 4715. %

Cross Section



Ratio

10<sup>2</sup>

10<sup>0</sup>

10<sup>-2</sup>

10<sup>-4</sup>

10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

Incident Energy (eV)

67-Ho-163



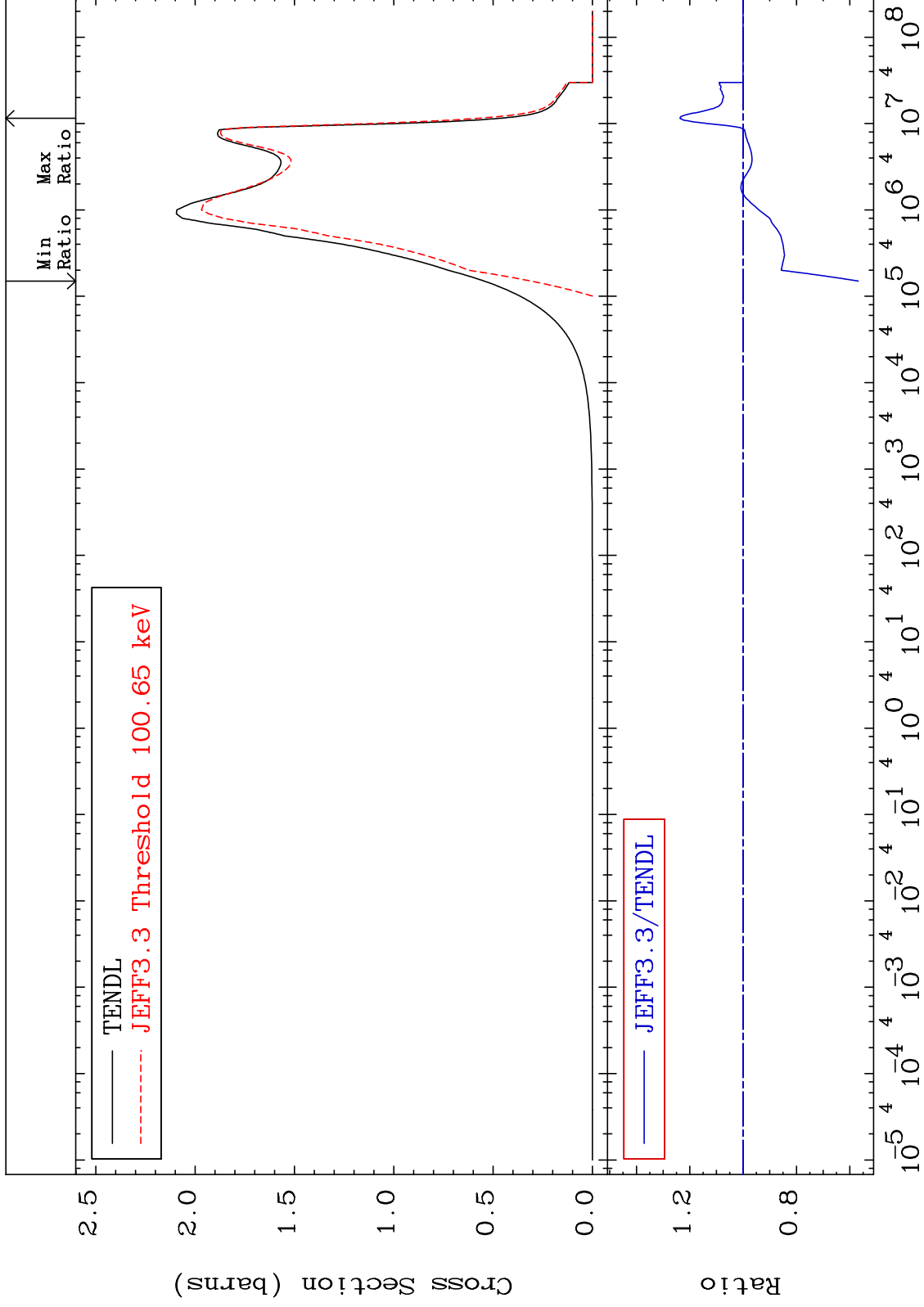
MAT 6719

Inelastic: 67-Ho-163g

67-Ho-163

Radionuclide Production Cross Section

-43.22 To 23.73 %



80

Incident Energy (eV)

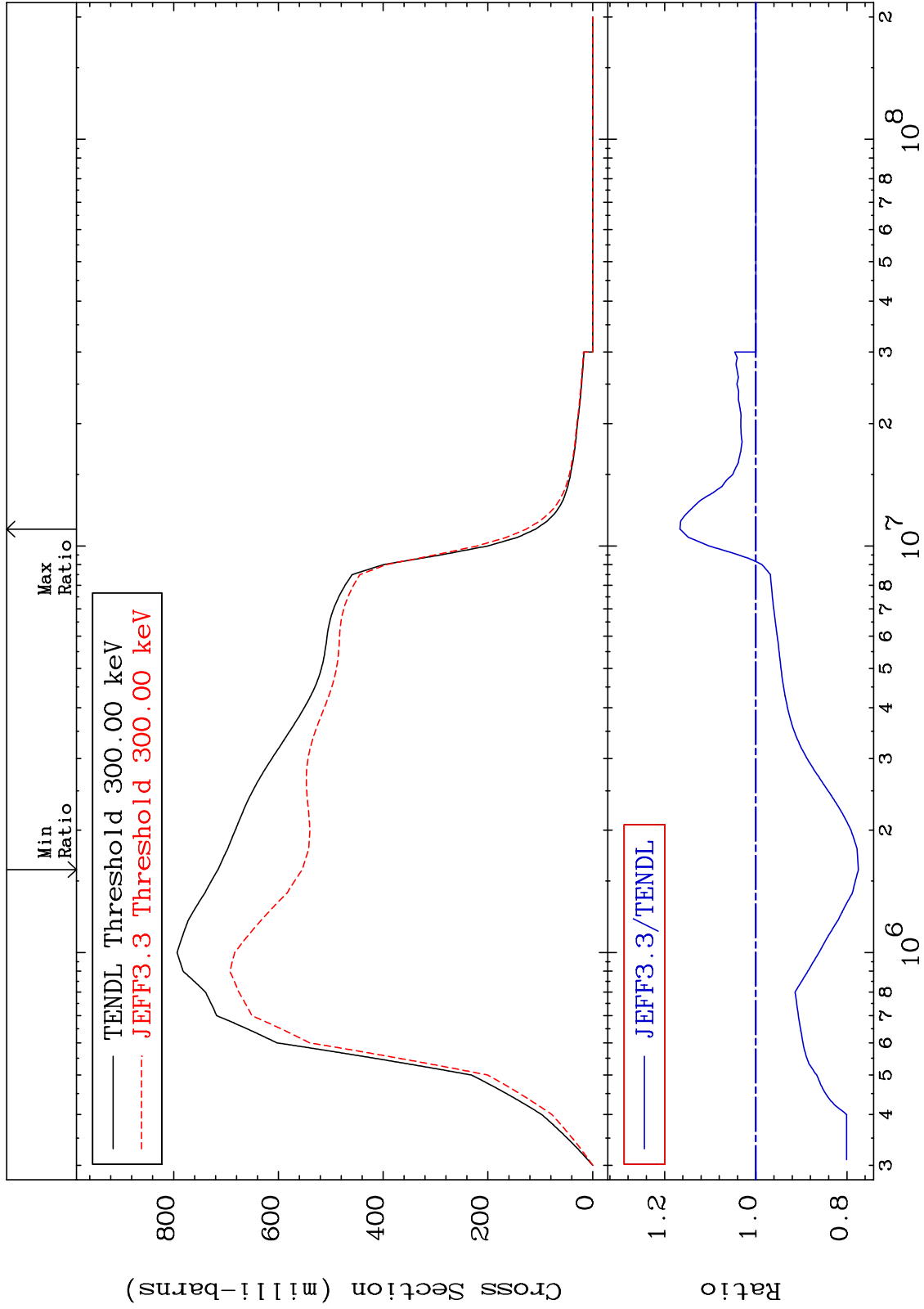
67-Ho-163

MAT 6719

Inelastic:67-Ho-163m3

67-Ho-163

Radionuclide Production Cross Section -22.51 To 16.62 %

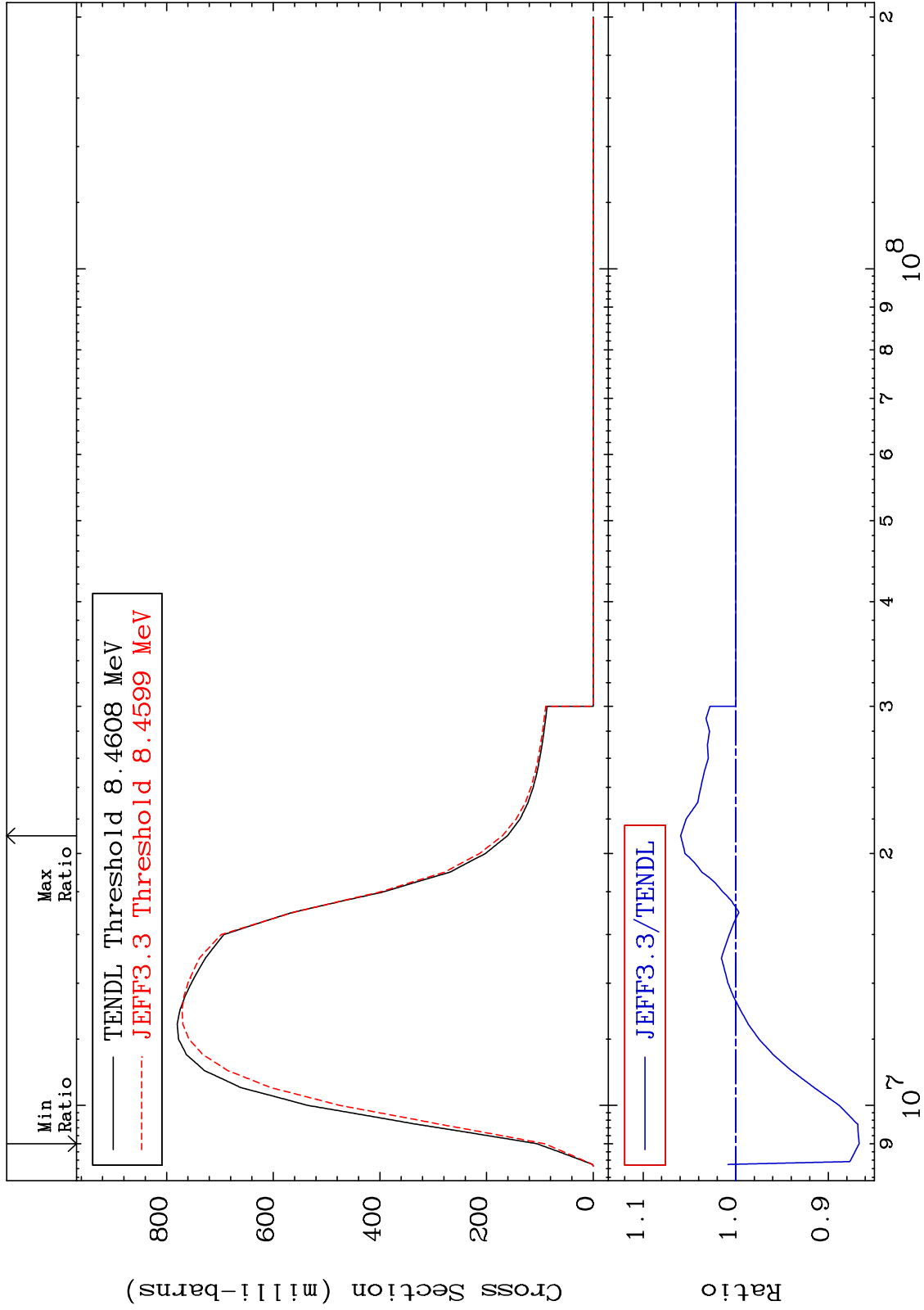


MAT 6719

(n,2n):67-Ho-162g

67-Ho-163

Radionuclide Production Cross Section -13.33 To 5.952 %



82

Incident Energy (eV)

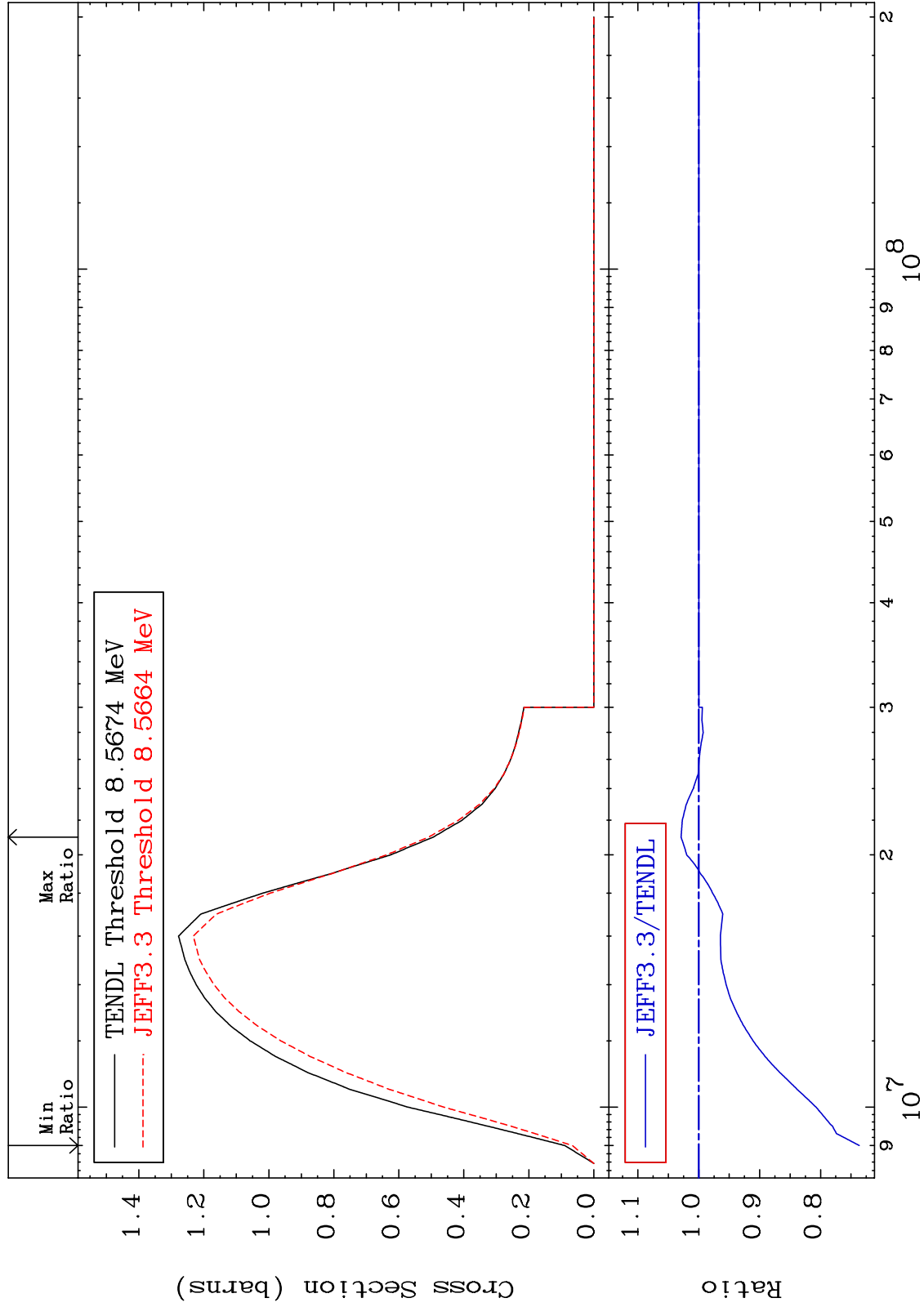
67-Ho-163

MAT 6719

(n,2n): 67-Ho-162m3

67-Ho-163

Radionuclide Production Cross Section -26.36 To 2.915 %



83

Incident Energy (eV)

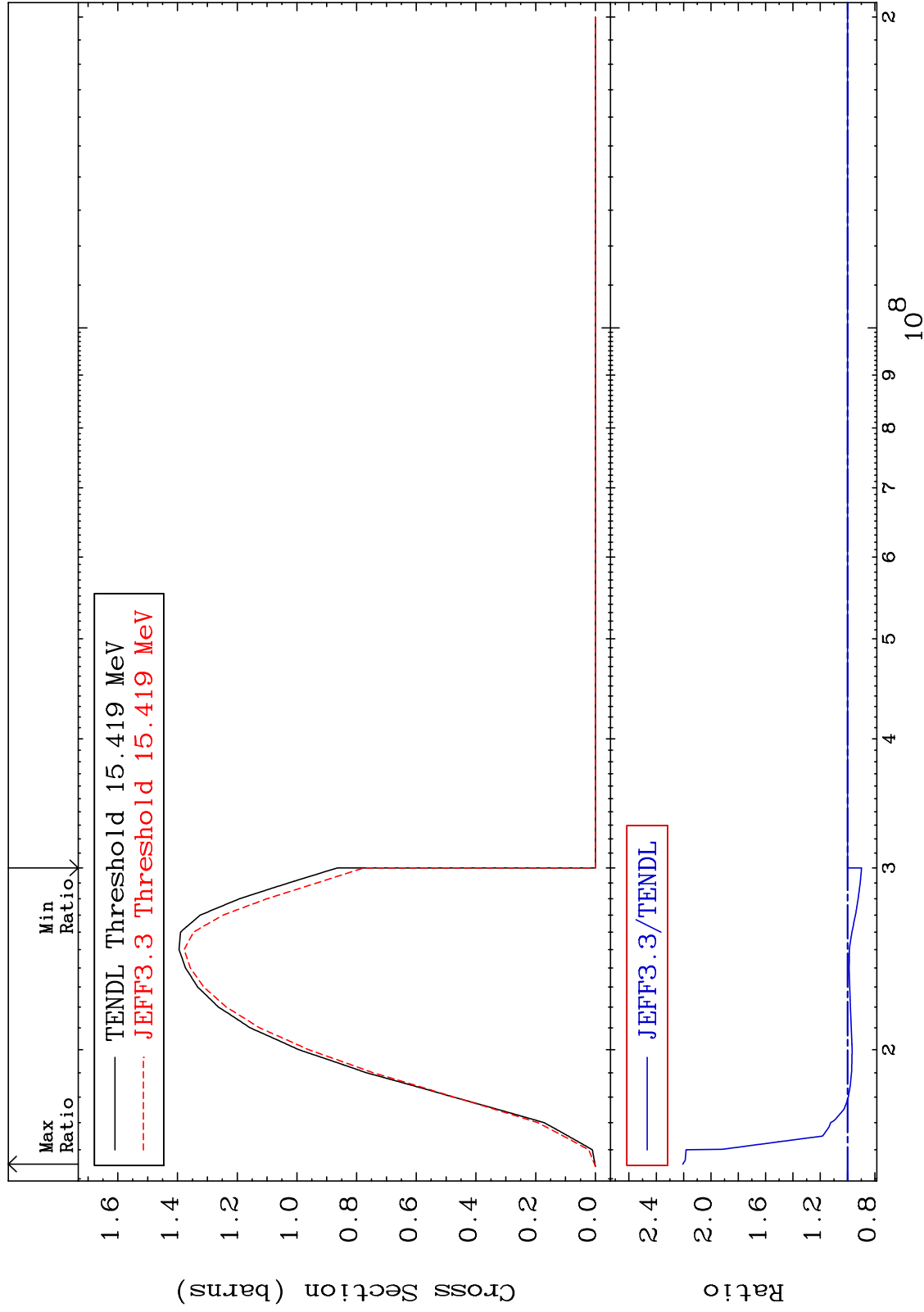
67-Ho-163

MAT 6719

(n,3n):67-Ho-161g

67-Ho-163

Radionuclide Production Cross Section -10.24 To 120.5 %

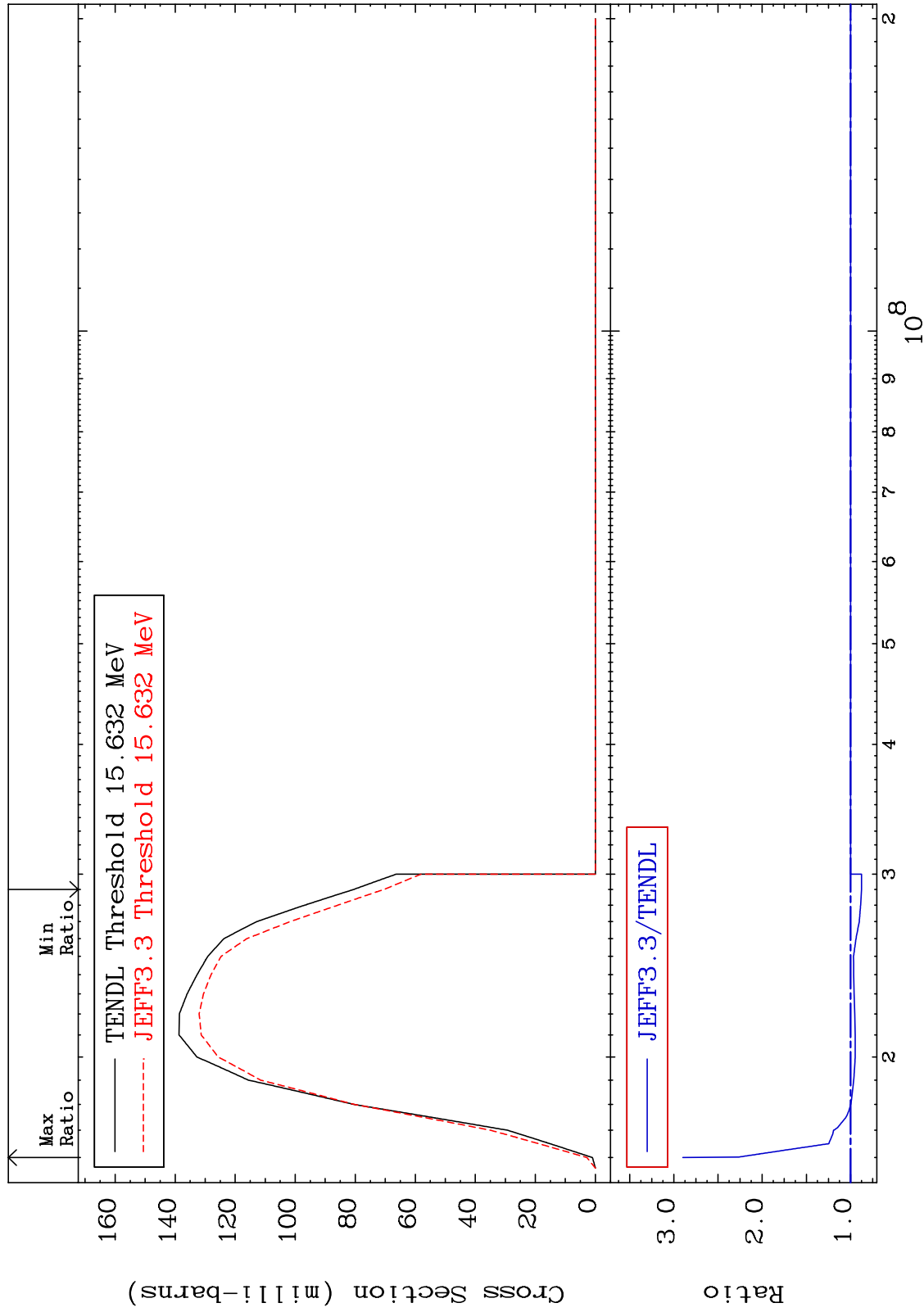


MAT 6719

(n, 3n): 67-Ho-161m2

67-Ho-163

Radionuclide Production Cross Section -12.51 To 189.8 %



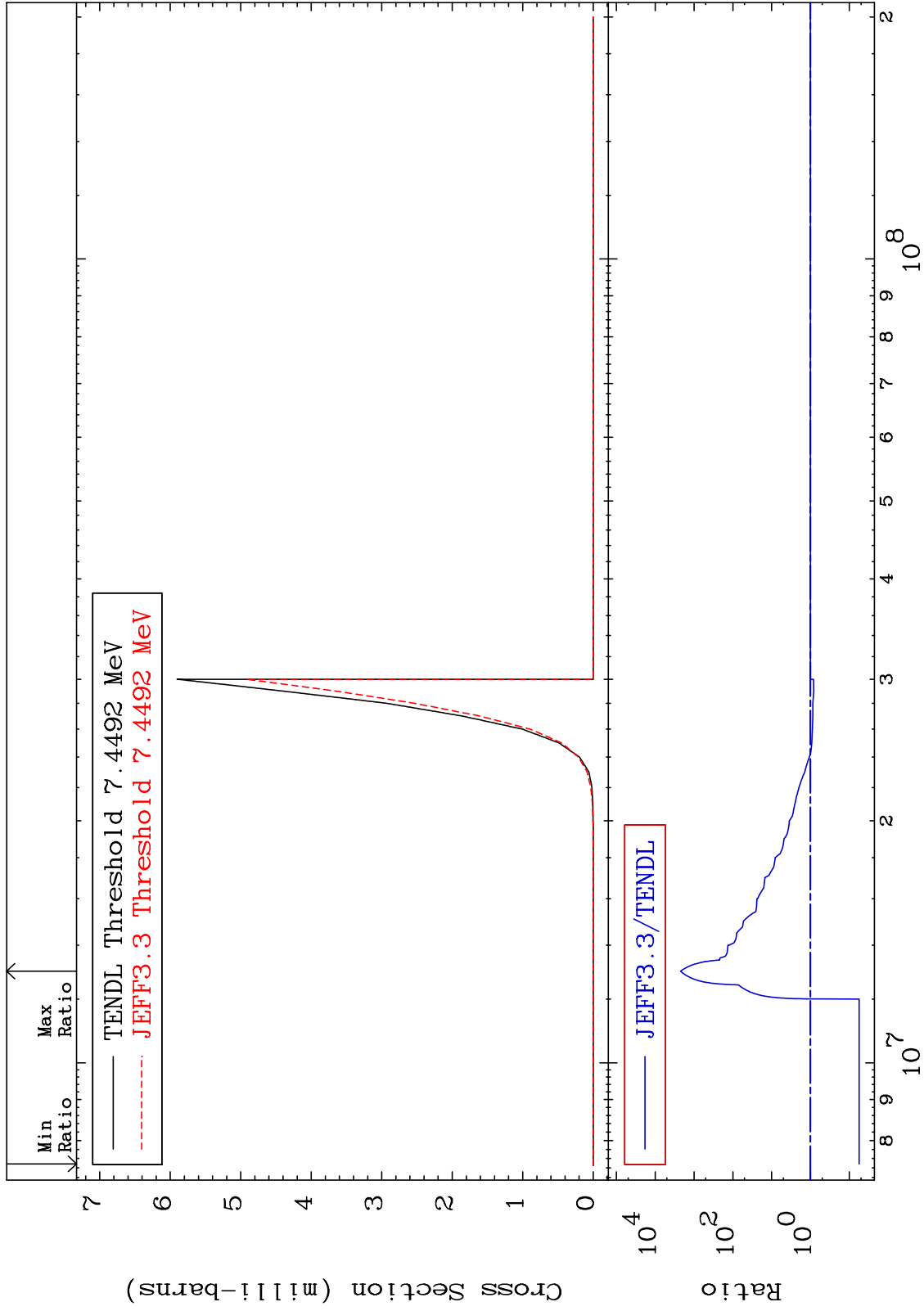
85

Incident Energy (eV)

67-Ho-163

MAT 6719

(n,2n)  $\alpha$ :65-Tb-158g 67-Ho-163  
Radionuclide Production Cross Section -94.43 To 9999. %

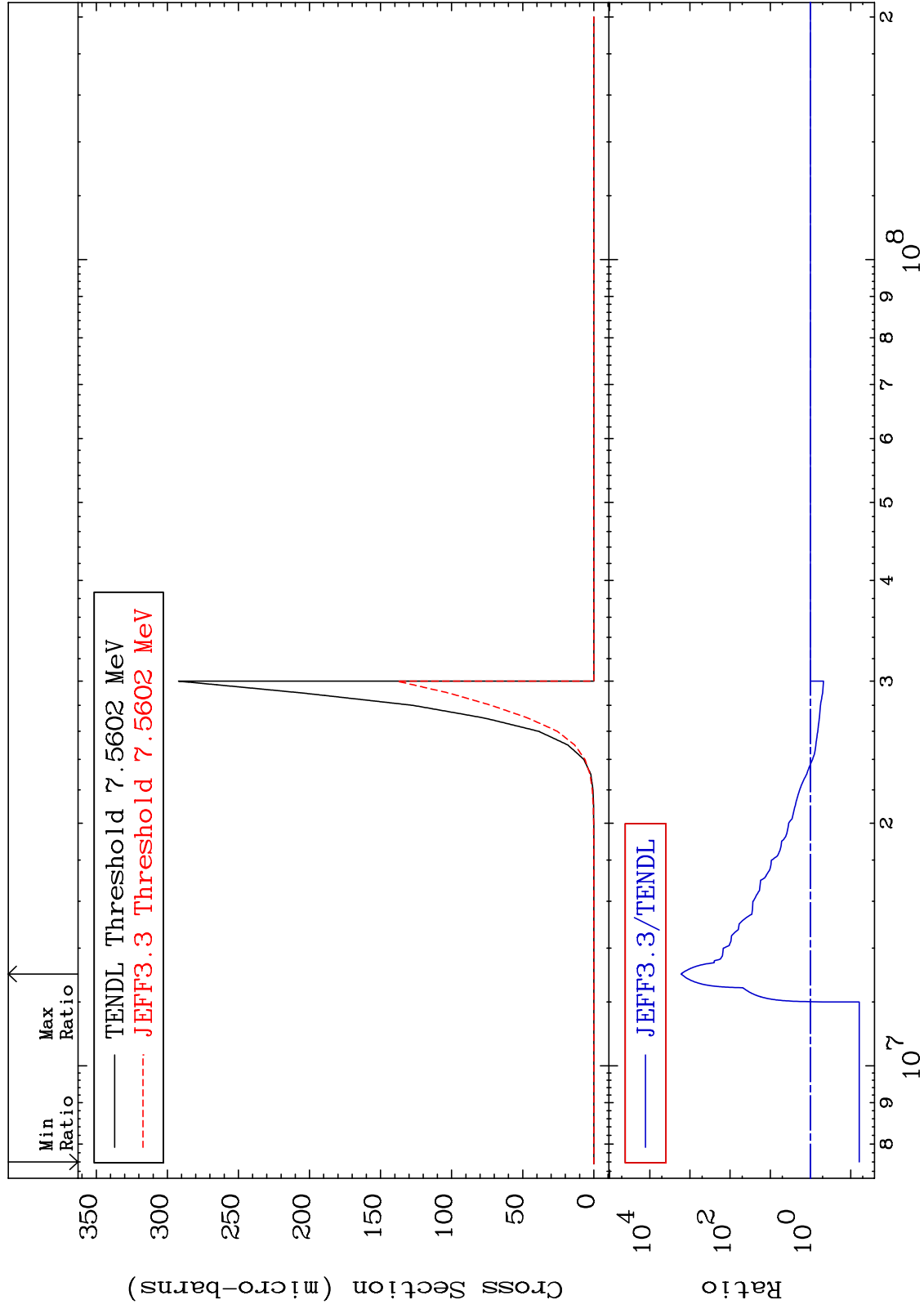


MAT 6719

(n,2n)  $\alpha$ : 65-Tb-158m3

67-Ho-163

Radionuclide Production Cross Section -93.89 To 9999. %



87

Incident Energy (eV)

67-Ho-163

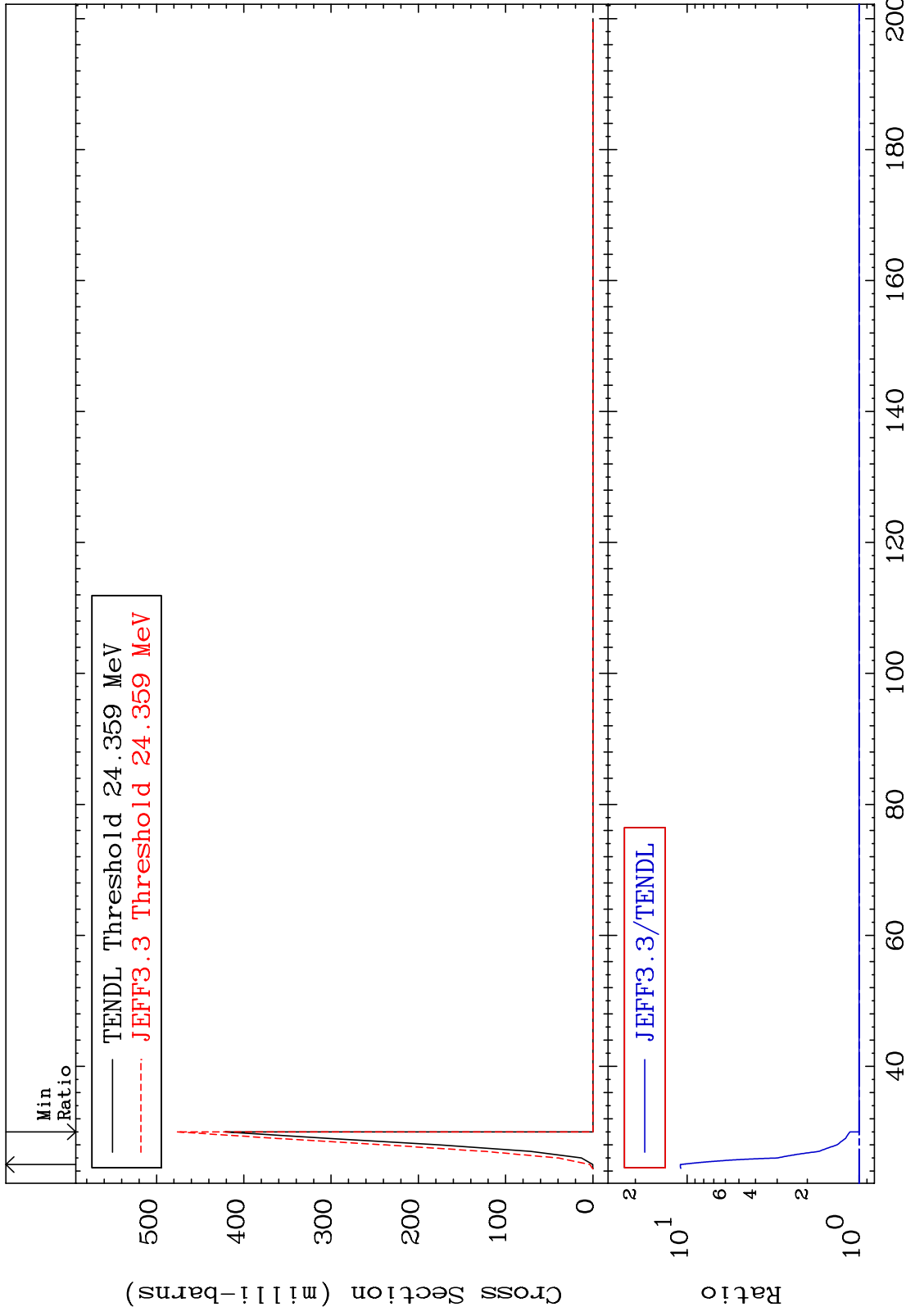


MAT 6719

(n,4n):67-Ho-160g

67-Ho-163

Radionuclide Production Cross Section 0.000 To 994.2 %

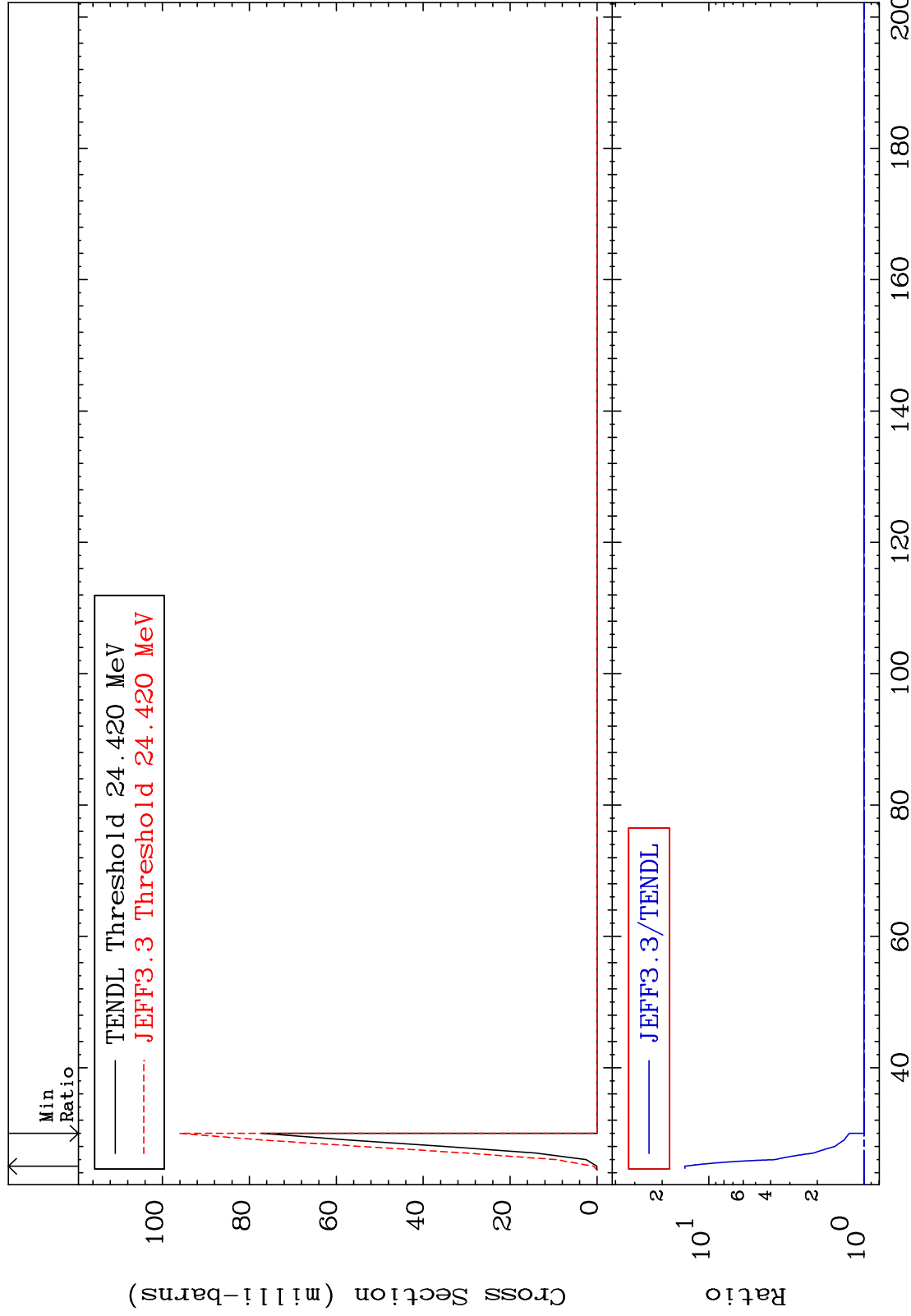


MAT 6719

(n, 4n): 67-Ho-160m1

67-Ho-163

Radionuclide Production Cross Section 0.000 To 1329. %

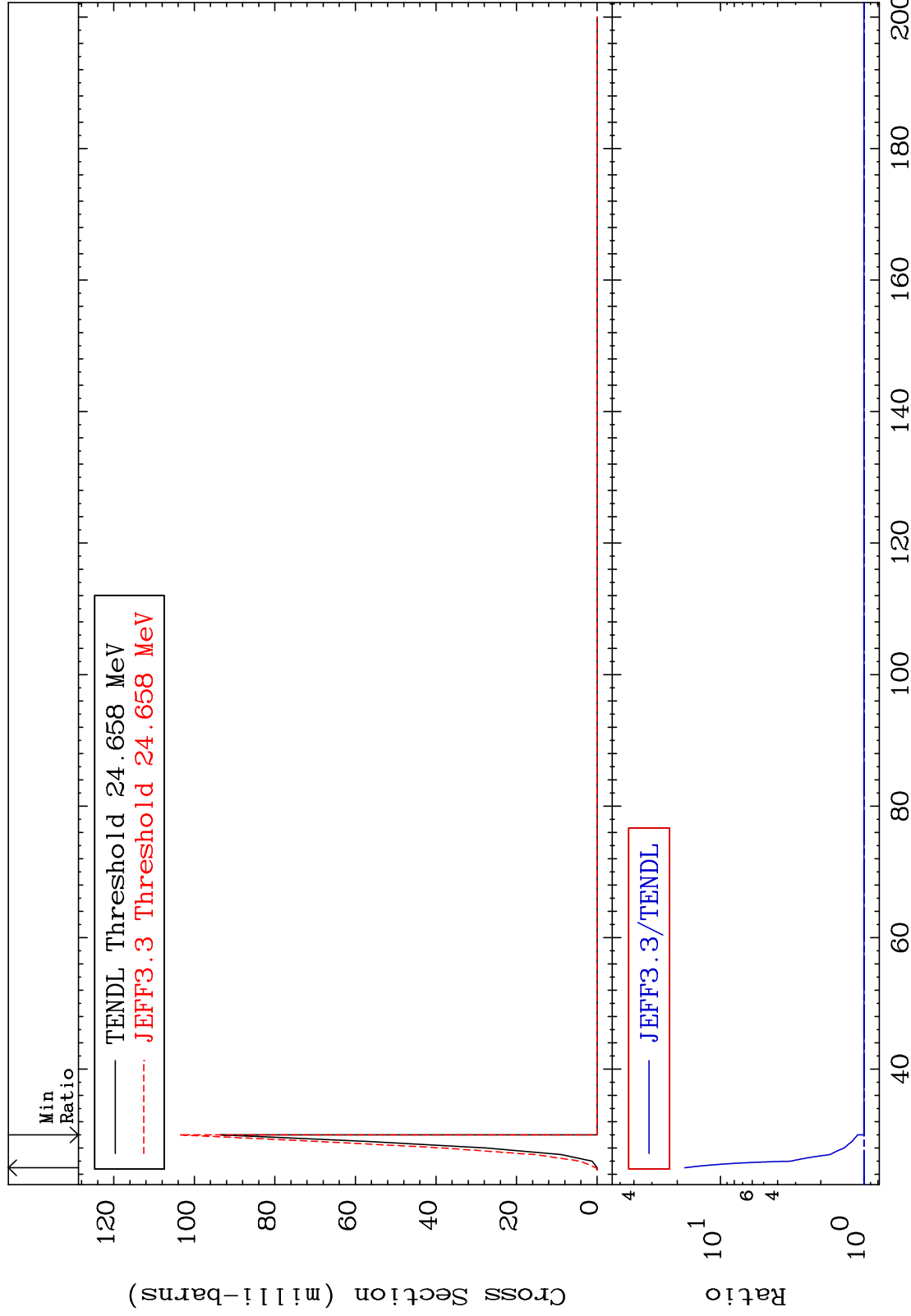


MAT 6719

(n, 4n): 67-Ho-160m9

67-Ho-163

Radionuclide Production Cross Section 0.000 To 1671. %



90

Incident Energy (MeV)

67-Ho-163