

Program Complot  
(Version 2021-1)

by

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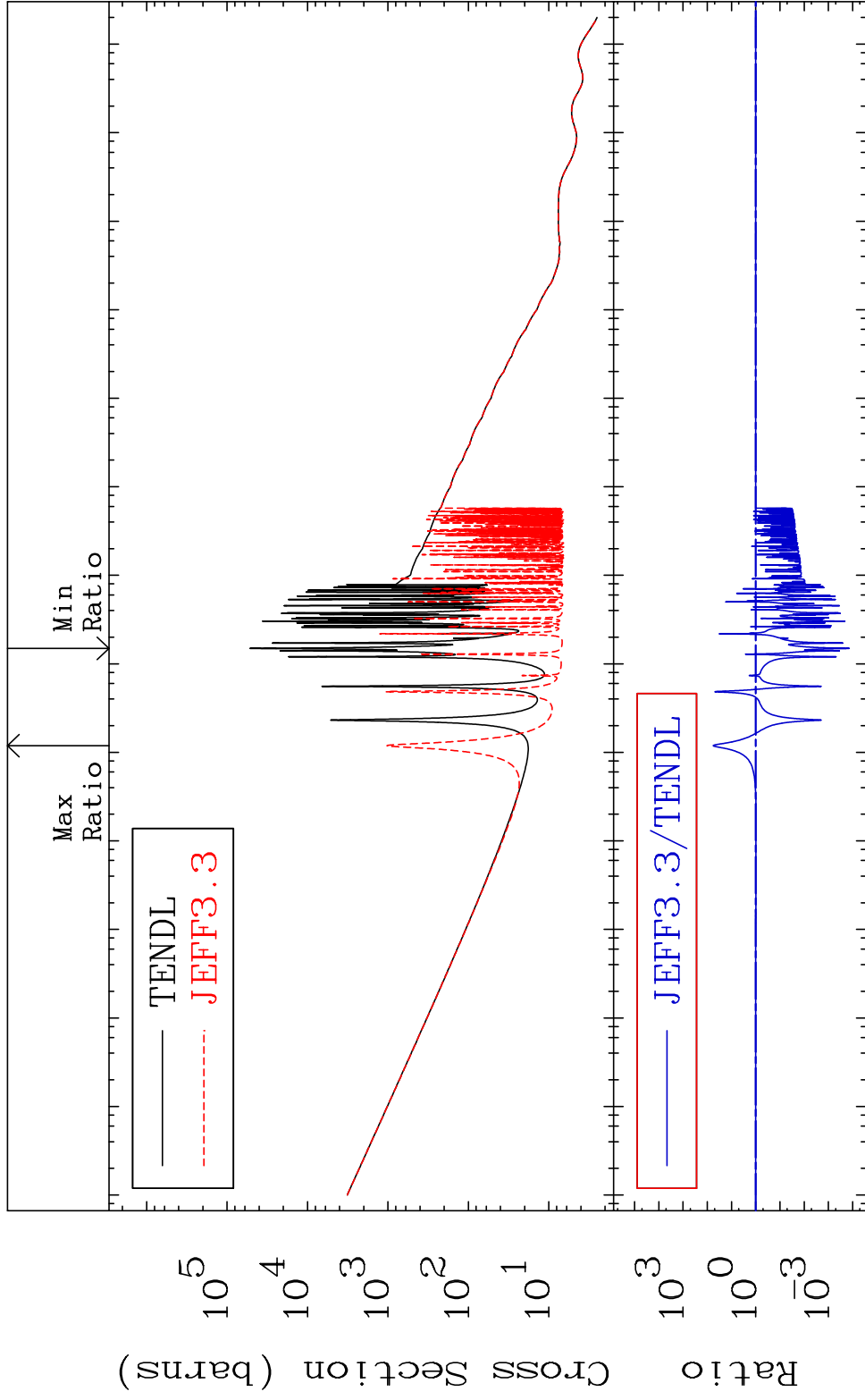
Press Mouse Button to Start

MAT 6719

Total

67-Ho-163

Cross Section -99.99 To 5584. %



1

Incident Energy (eV)

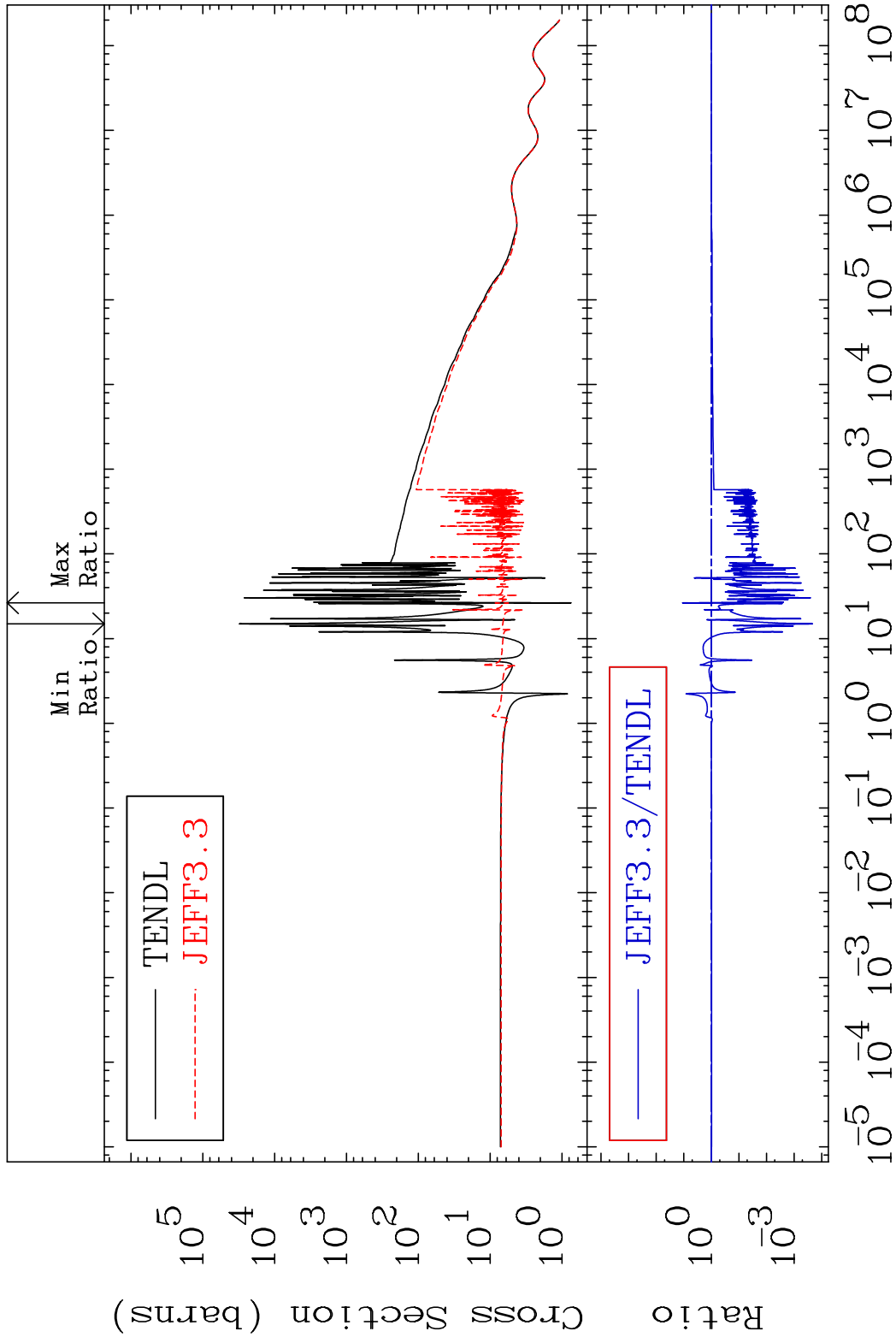
67-Ho-163

MAT 6719

Elastic

67-Ho-163

Cross Section -99.98 To 1028. %

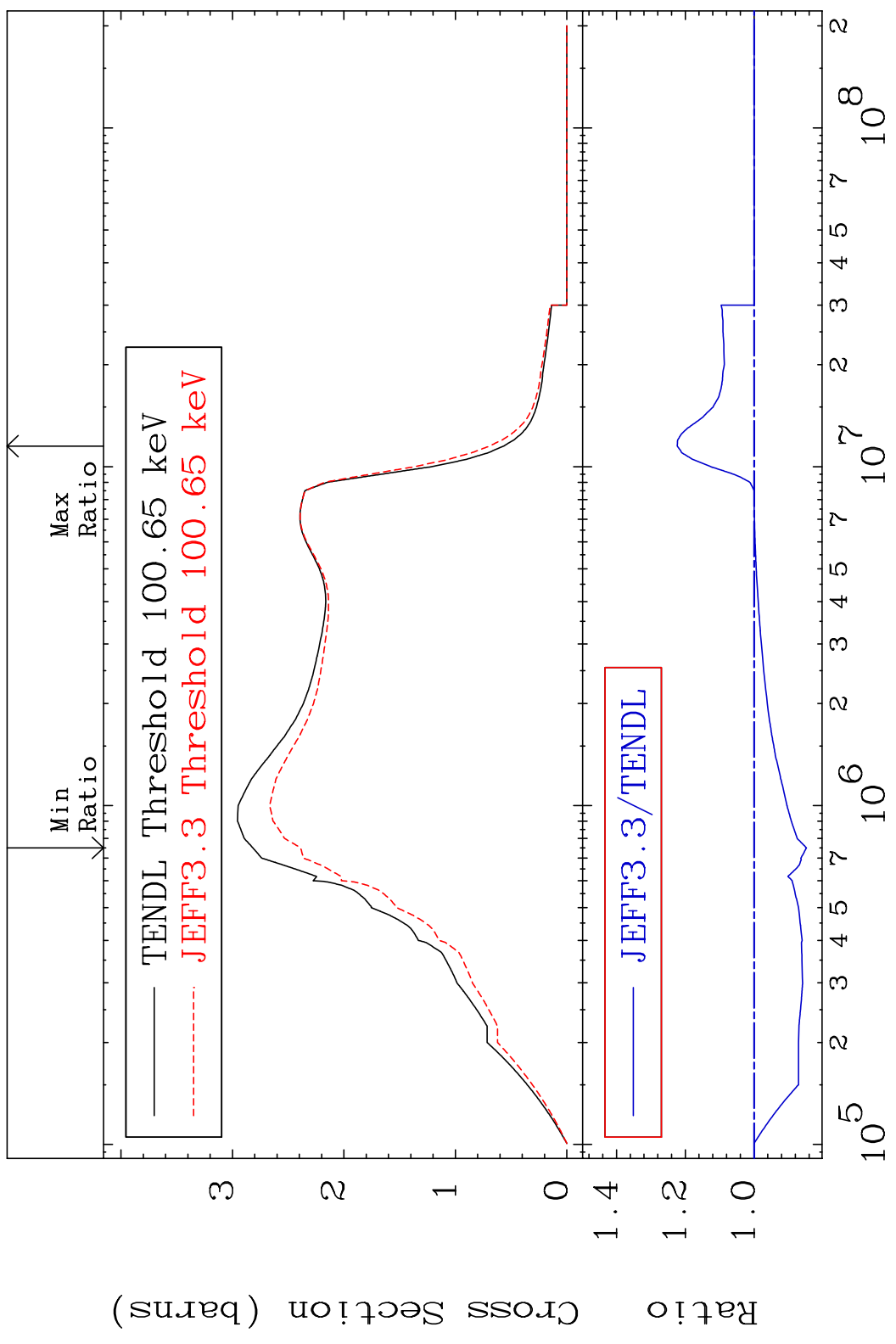


MAT 6719

Inelastic

67-Ho-163

Cross Section -15.22 To 22.36 %



3

Incident Energy (eV)

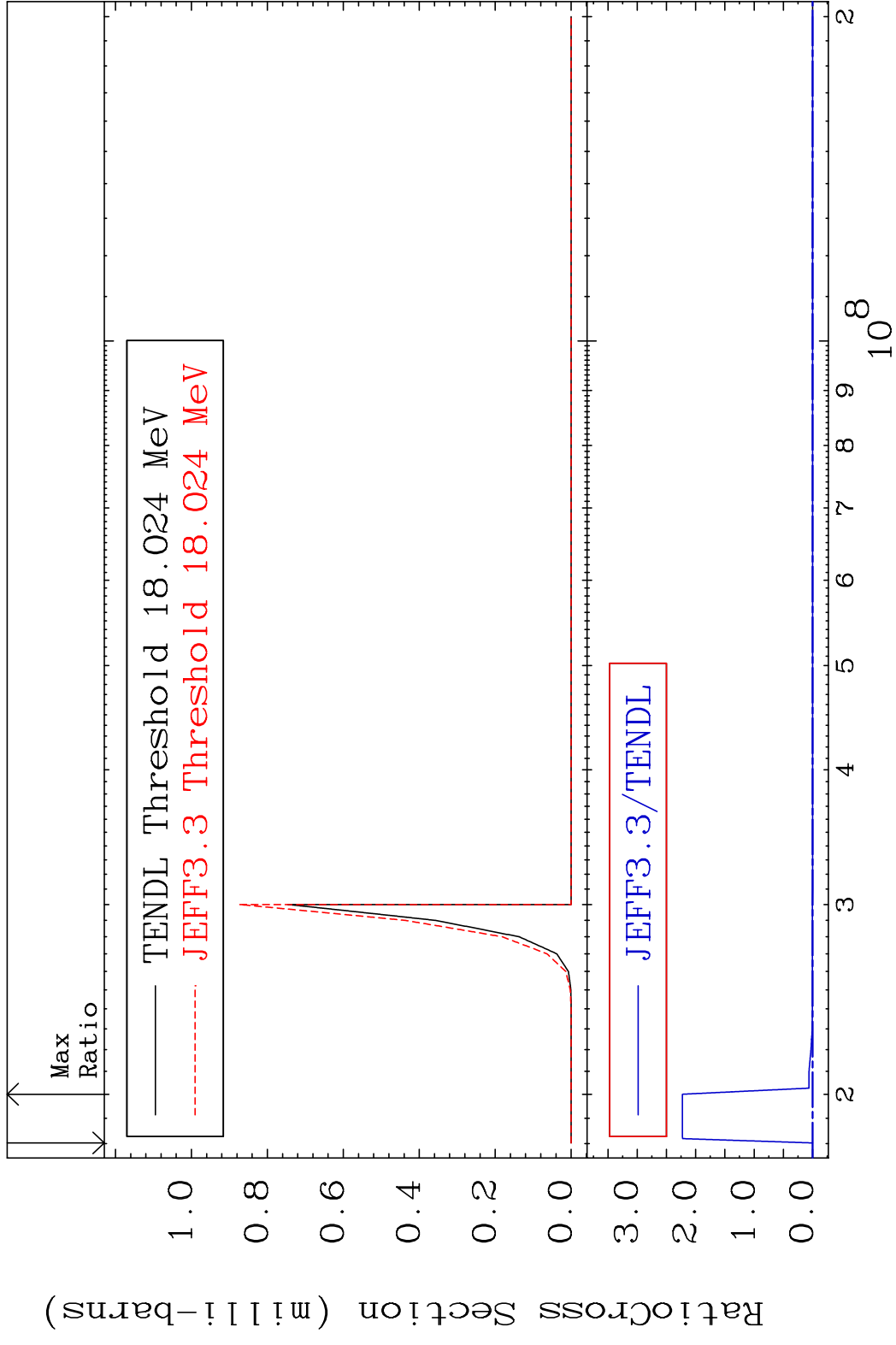
67-Ho-163

MAT 6719

(n,2n) d

67-Ho-163

Cross Section -100.0 To 9999. %

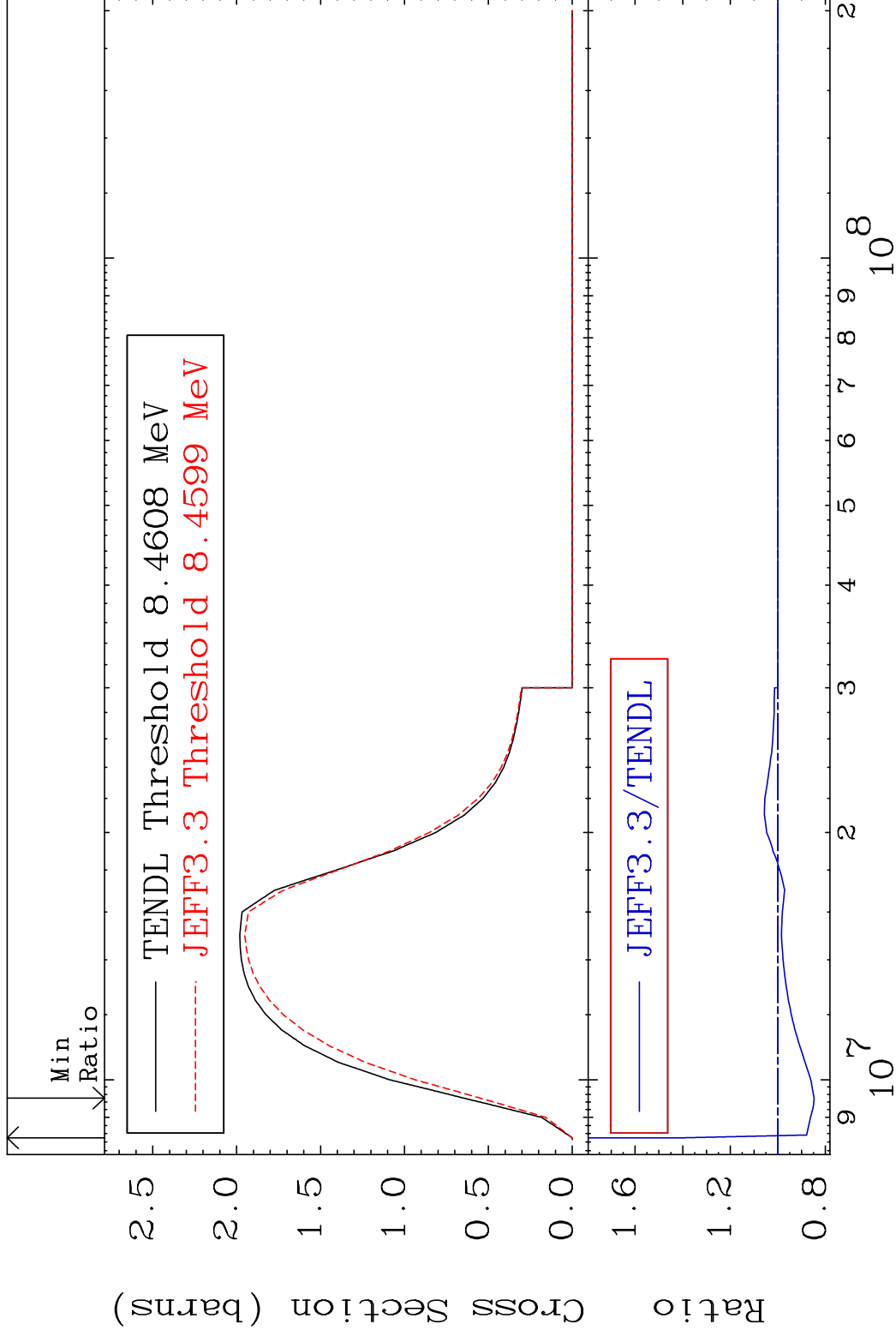


MAT 6719

(n,2n)

67-Ho-163

Cross Section -15.27 To 39.59 %



5

Incident Energy (eV)

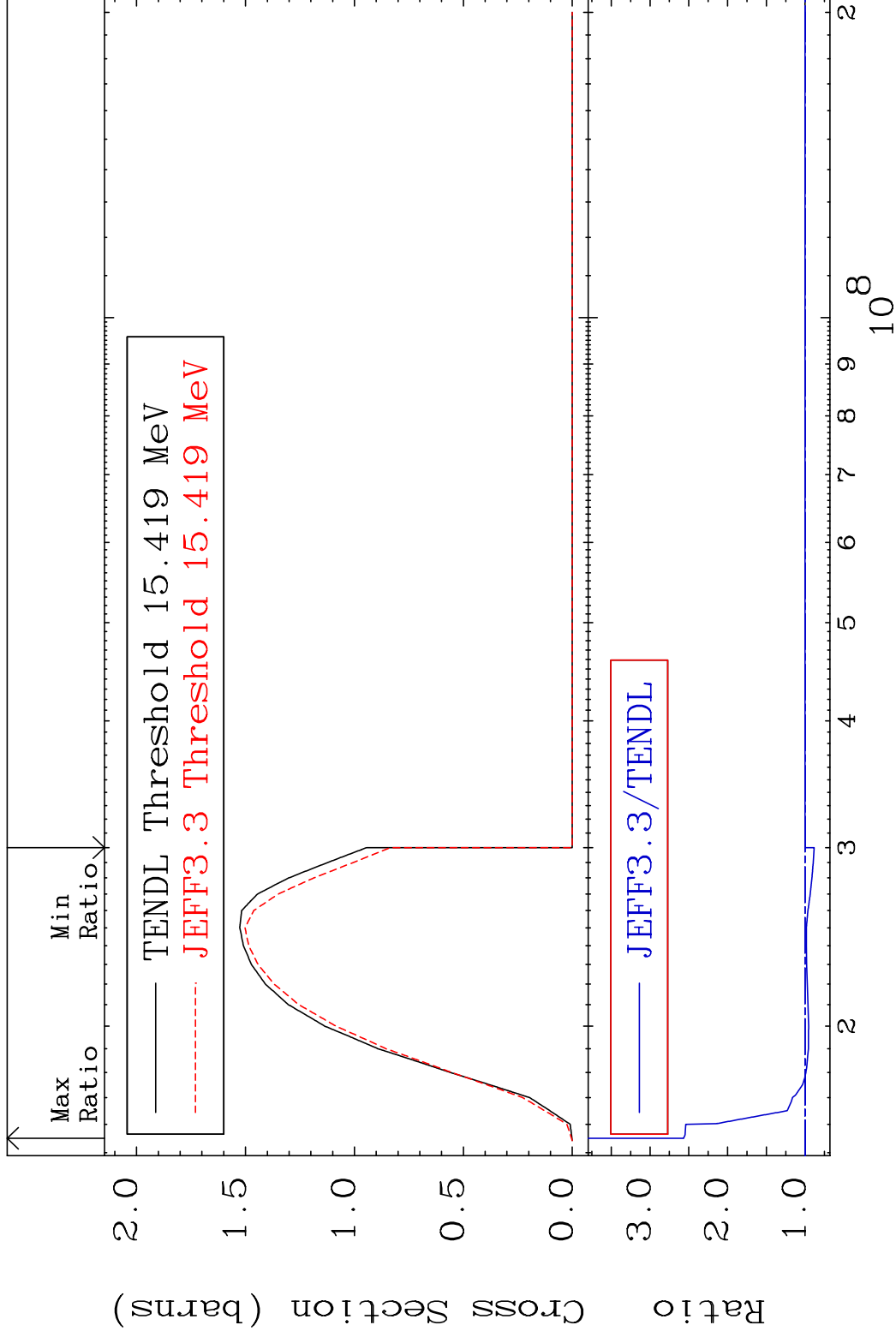
67-Ho-163

MAT 6719

(n,3n)

67-Ho-163

Cross Section -11.61 To 156.6 %



6

Incident Energy (eV)

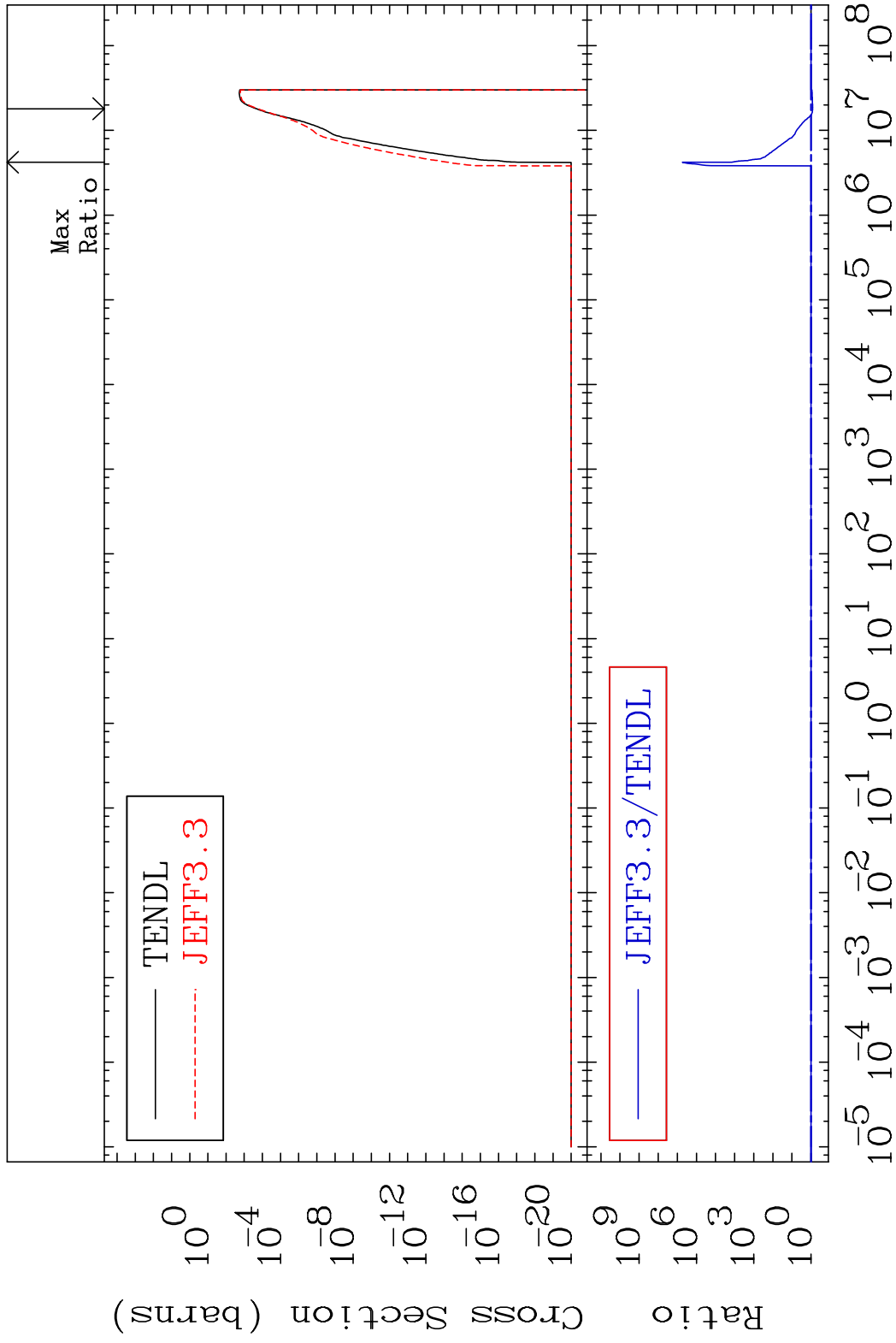
67-Ho-163

MAT 6719

(n, n')  $\alpha$

67-Ho-163

Cross Section -16.40 To 9999. %



7

Incident Energy (eV)

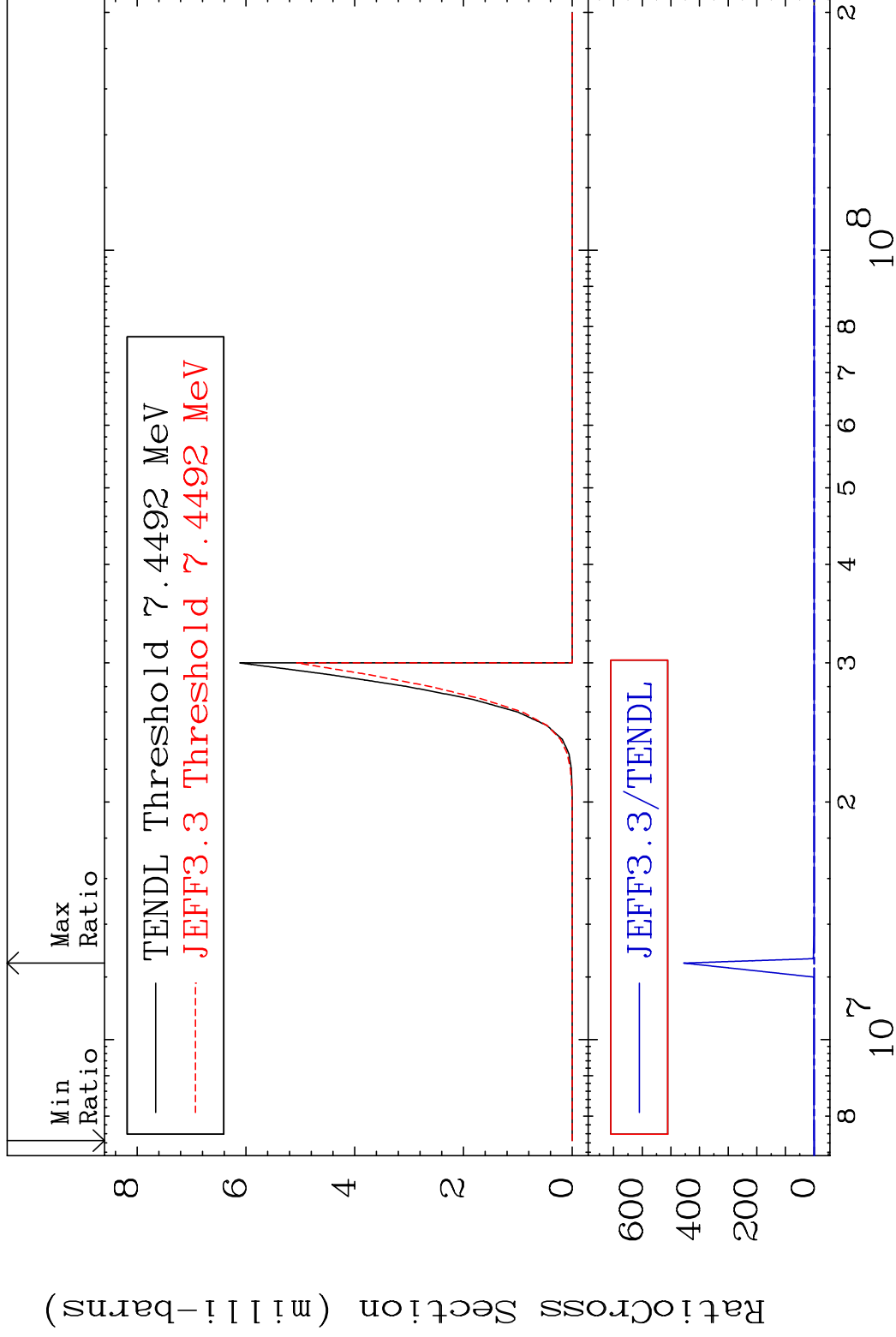
67-Ho-163

MAT 6719

(n,2n)  $\alpha$

67-Ho-163

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

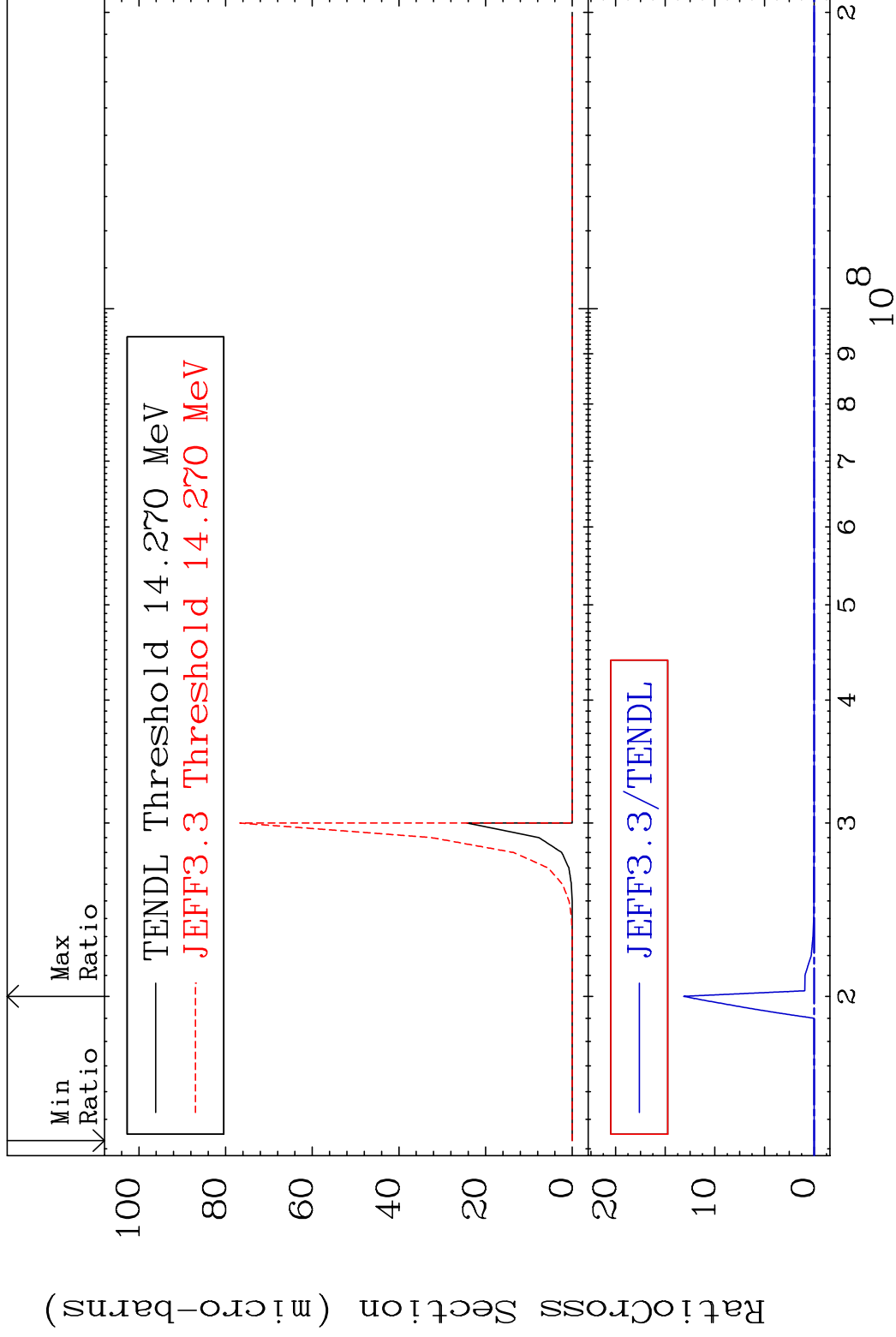
67-Ho-163

MAT 6719

(n,3n)  $\alpha$

67-Ho-163

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

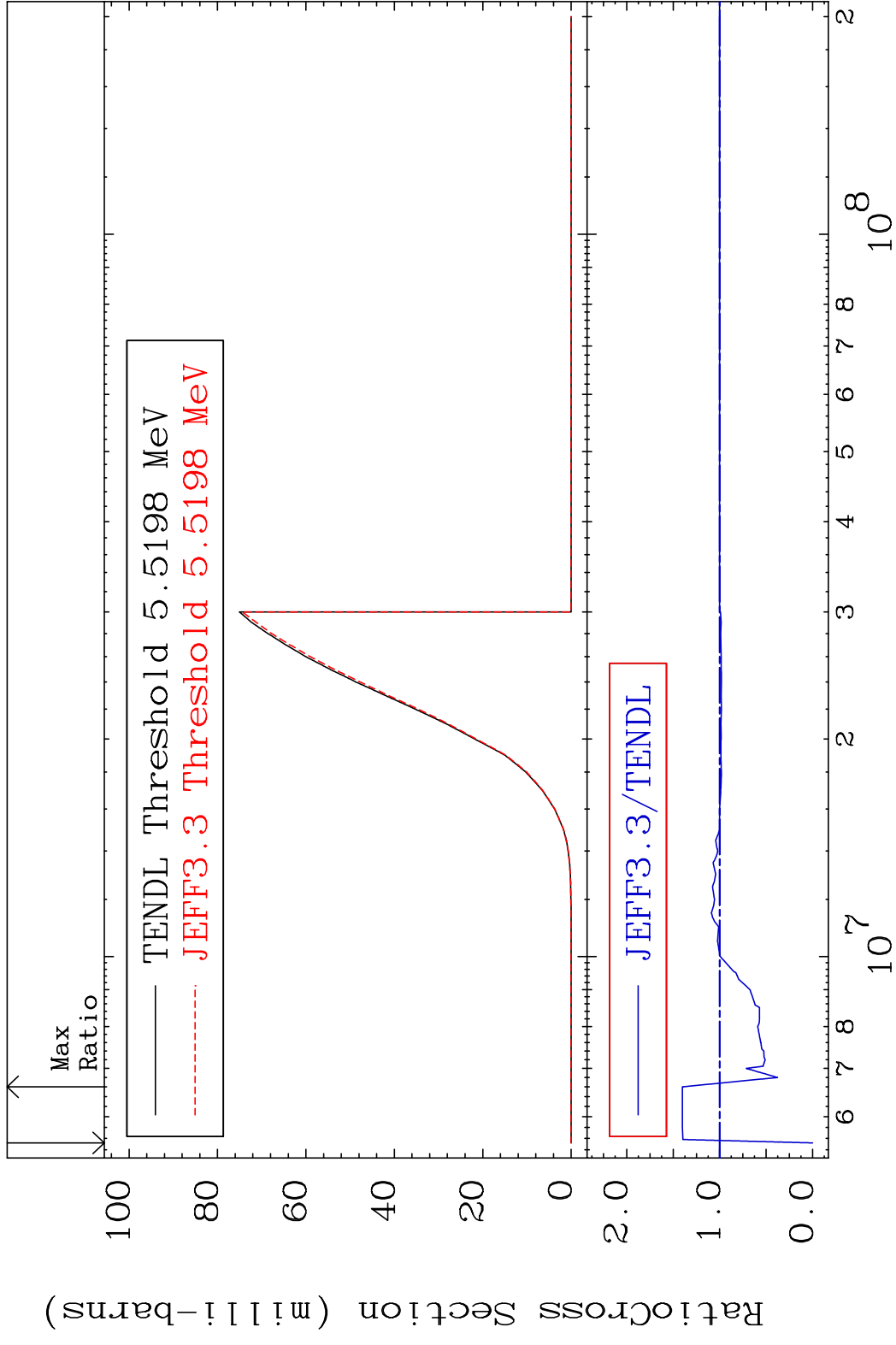
67-Ho-163

MAT 6719

67-Ho-163

(n, n') p

Cross Section -100.0 To 40.18 %



10

Incident Energy (eV)

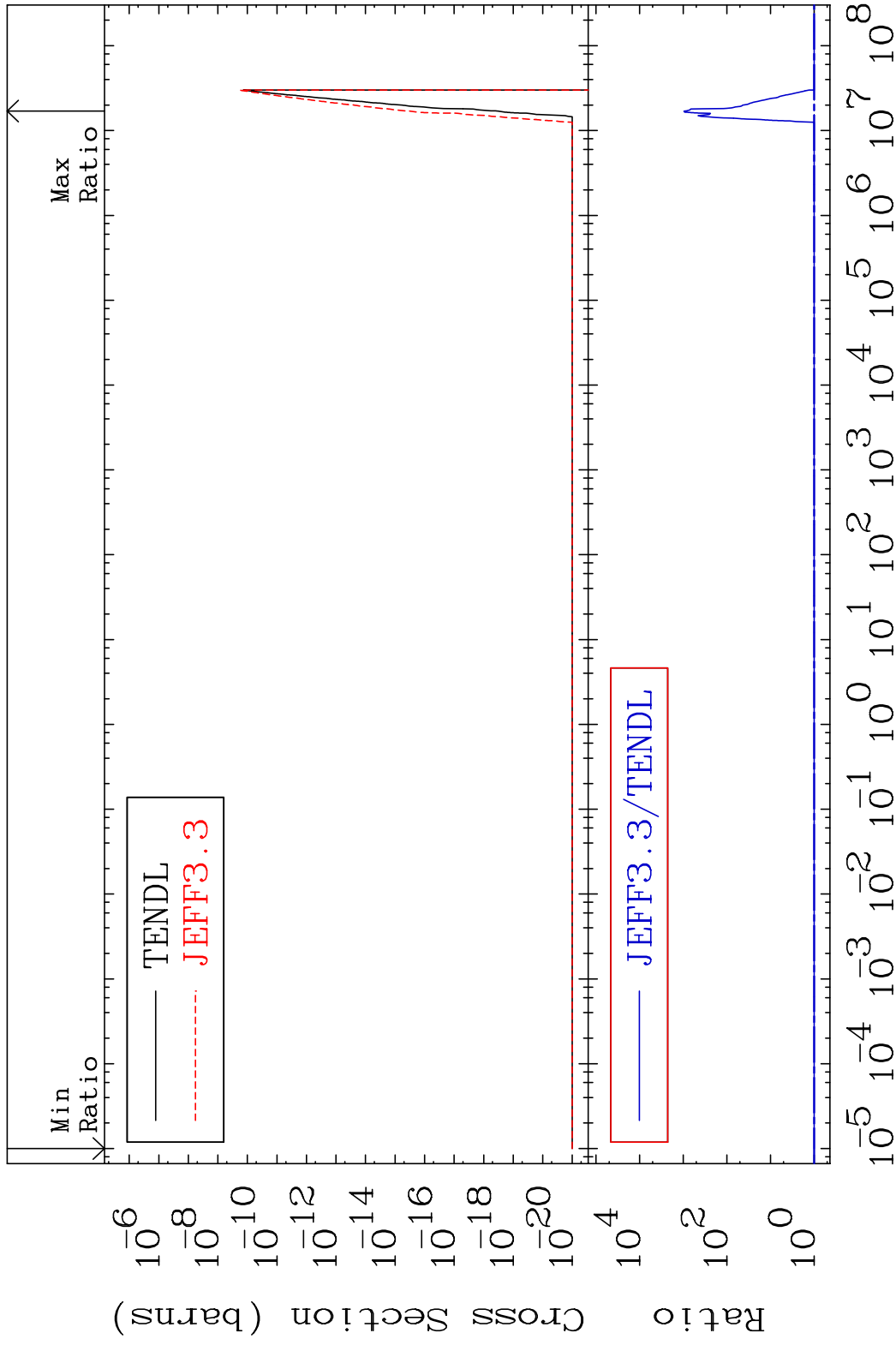
67-Ho-163

MAT 6719

(n, n') 2α

67-Ho-163

Cross Section 0.000 To 9999. %

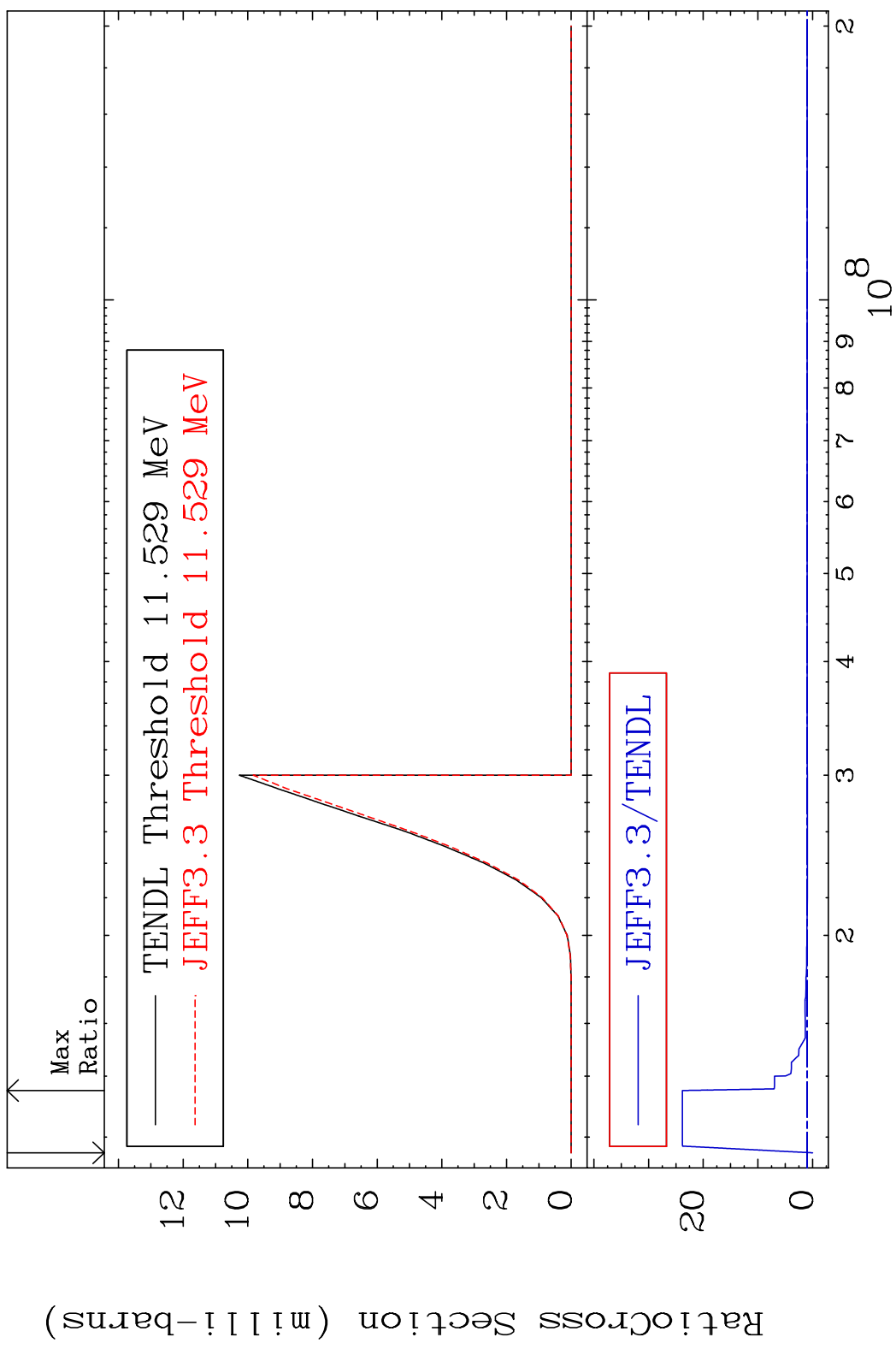


MAT 6719

(n, n') d

67-Ho-163

Cross Section -100.0 To 2282. %



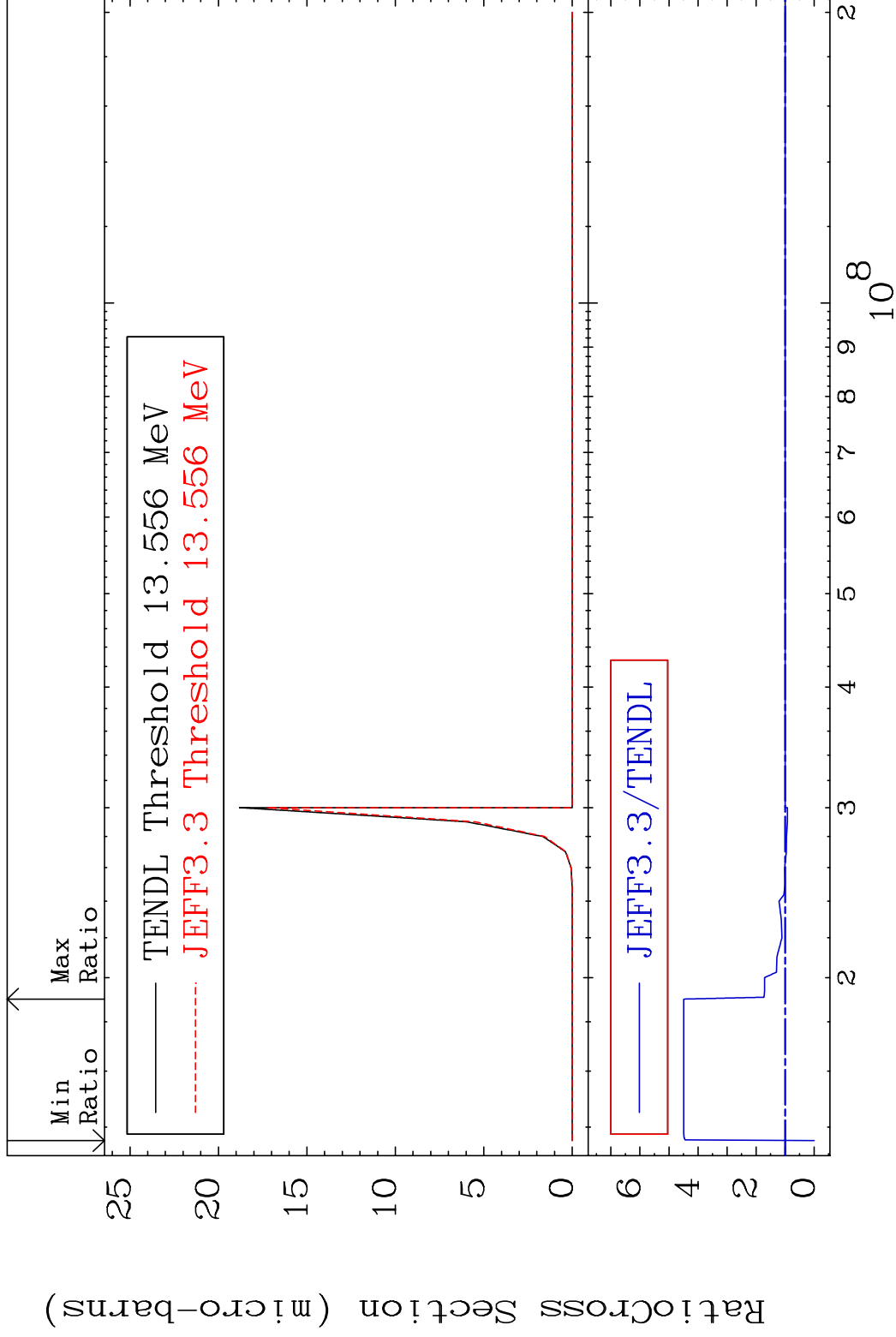


MAT 6719

(n,n') He-3

67-Ho-163

Cross Section -100.0 To 349.4 %

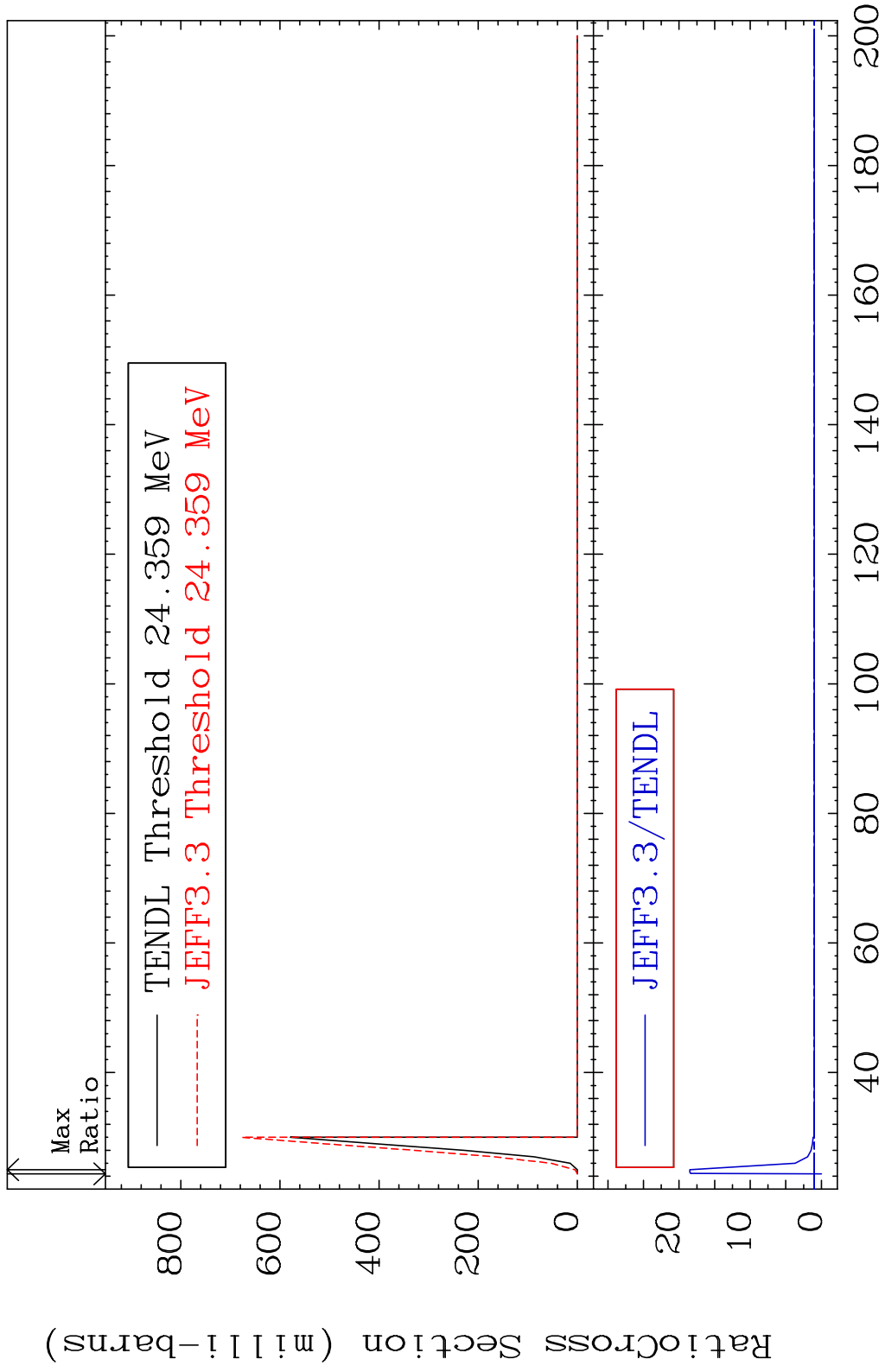


MAT 6719

(n,4n)

67-Ho-163

Cross Section -100.0 To 1750. %



15

Incident Energy (MeV)

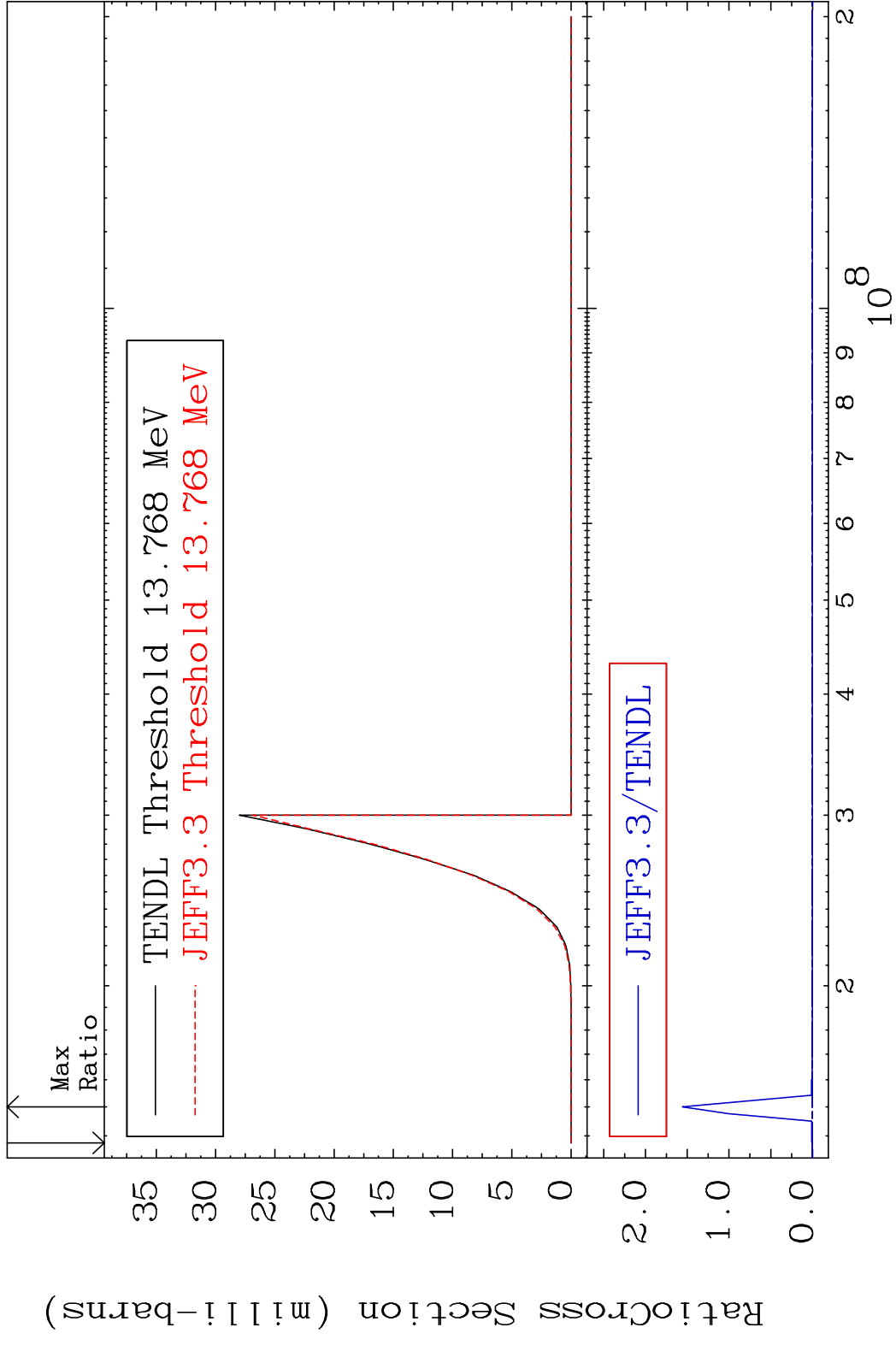
67-Ho-163

MAT 6719

(n,2n) p

67-Ho-163

Cross Section -100.0 To 9999. %

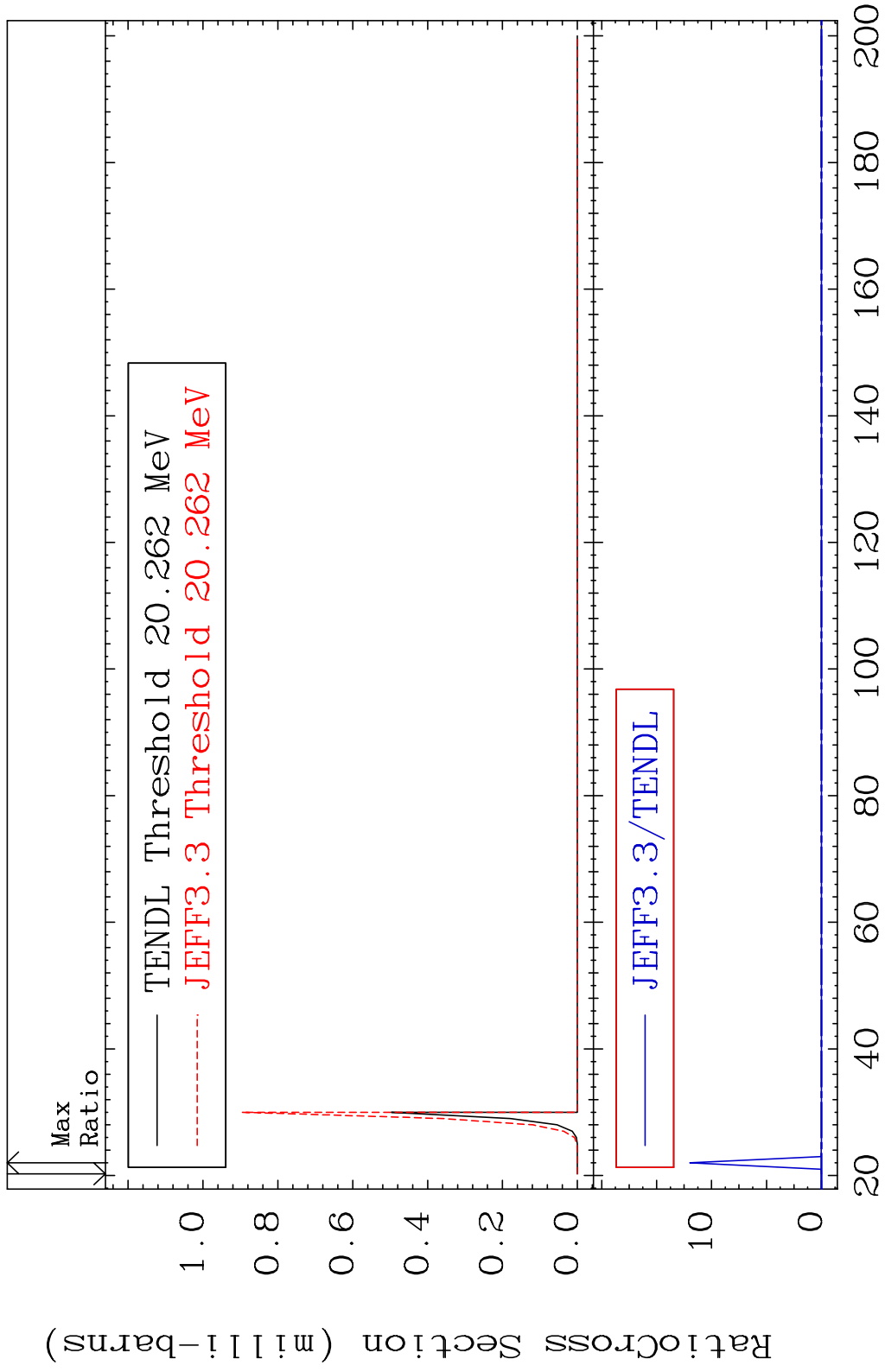


MAT 6719

(n,3n) p

67-Ho-163

Cross Section -100.0 To 9999. %



17

Incident Energy (MeV)

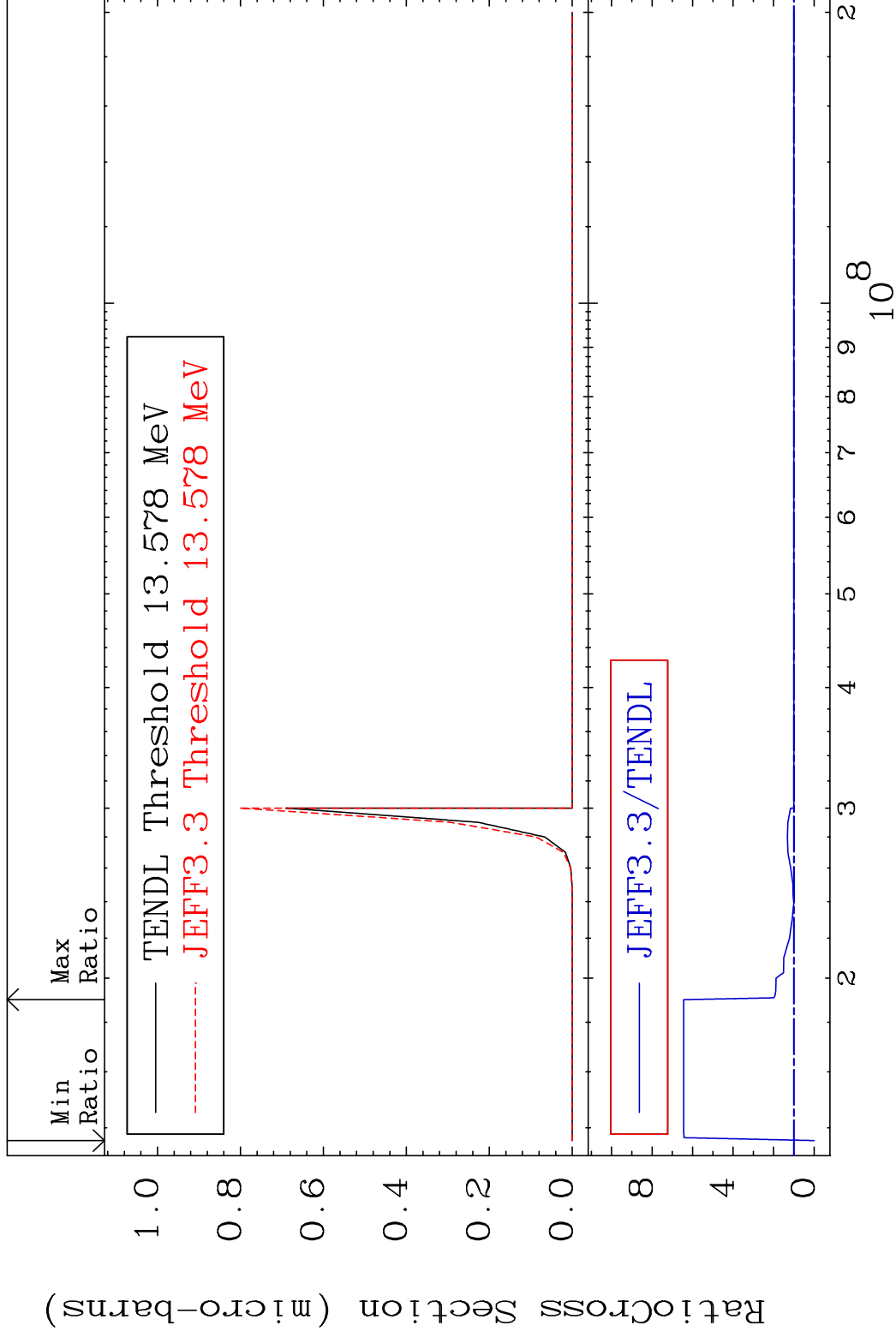
67-Ho-163

MAT 6719

(n,2n) p

67-Ho-163

Cross Section -100.0 To 544.1 %



18

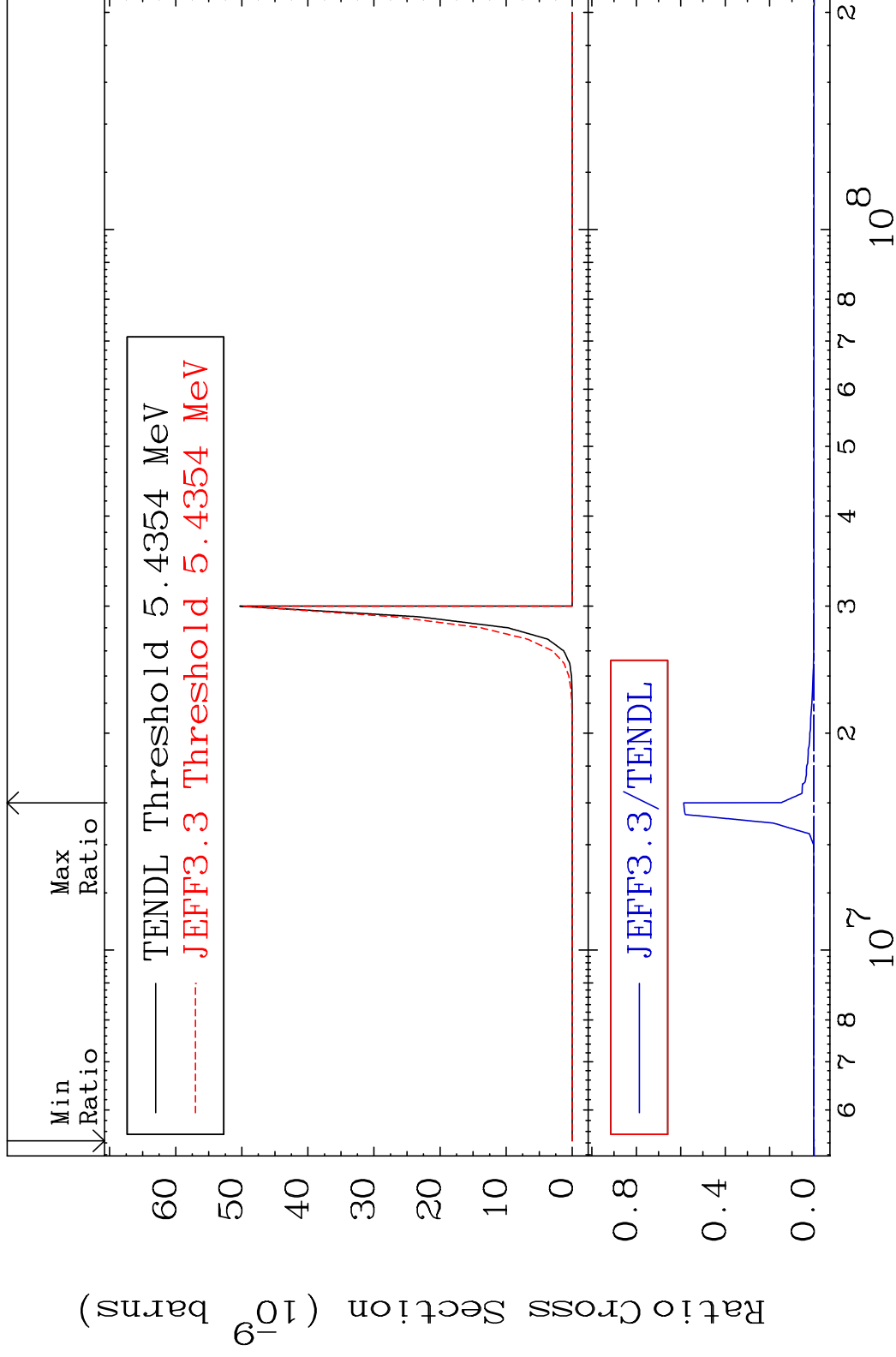
Incident Energy (eV)

67-Ho-163

MAT 6719

(n,n') p  $\alpha$  67-Ho-163

Cross Section -100.0 To 9999. %



19

Incident Energy (eV)

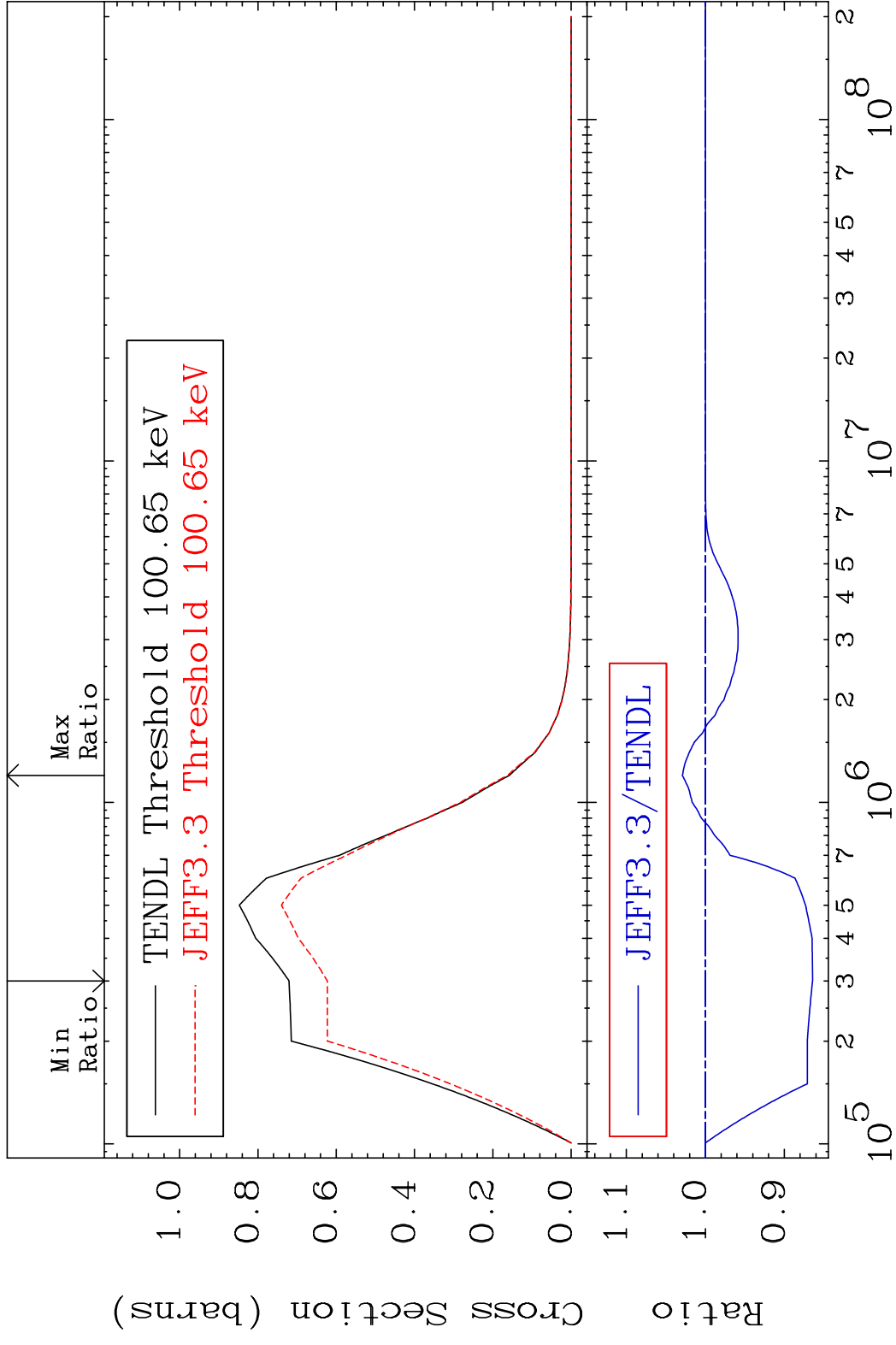
67-Ho-163

MAT 6719

MT= 51 (n,n') Level

67-Ho-163

Cross Section -13.57 To 2.915 %



20

Incident Energy (eV)

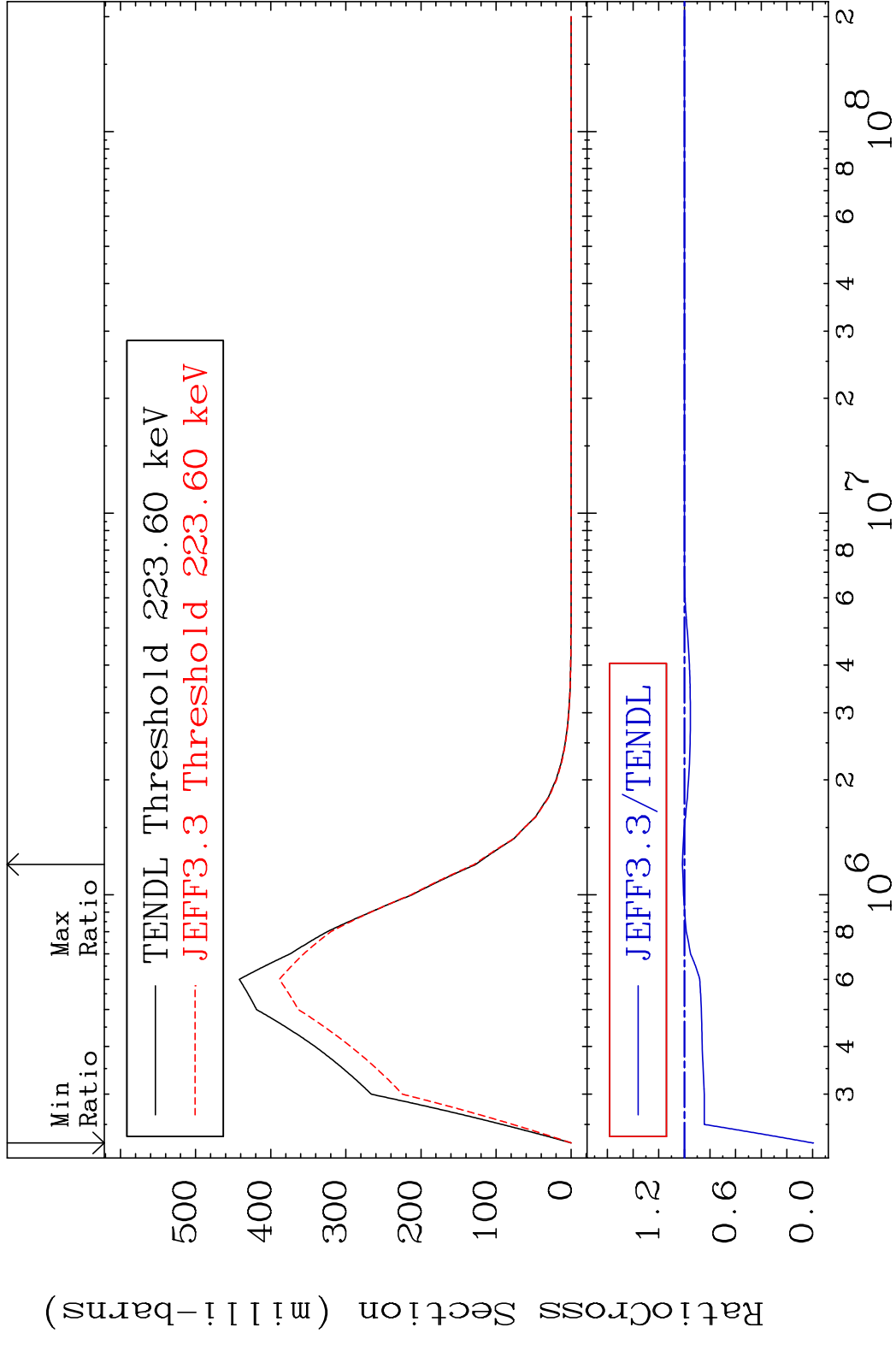
67-Ho-163

MAT 6719

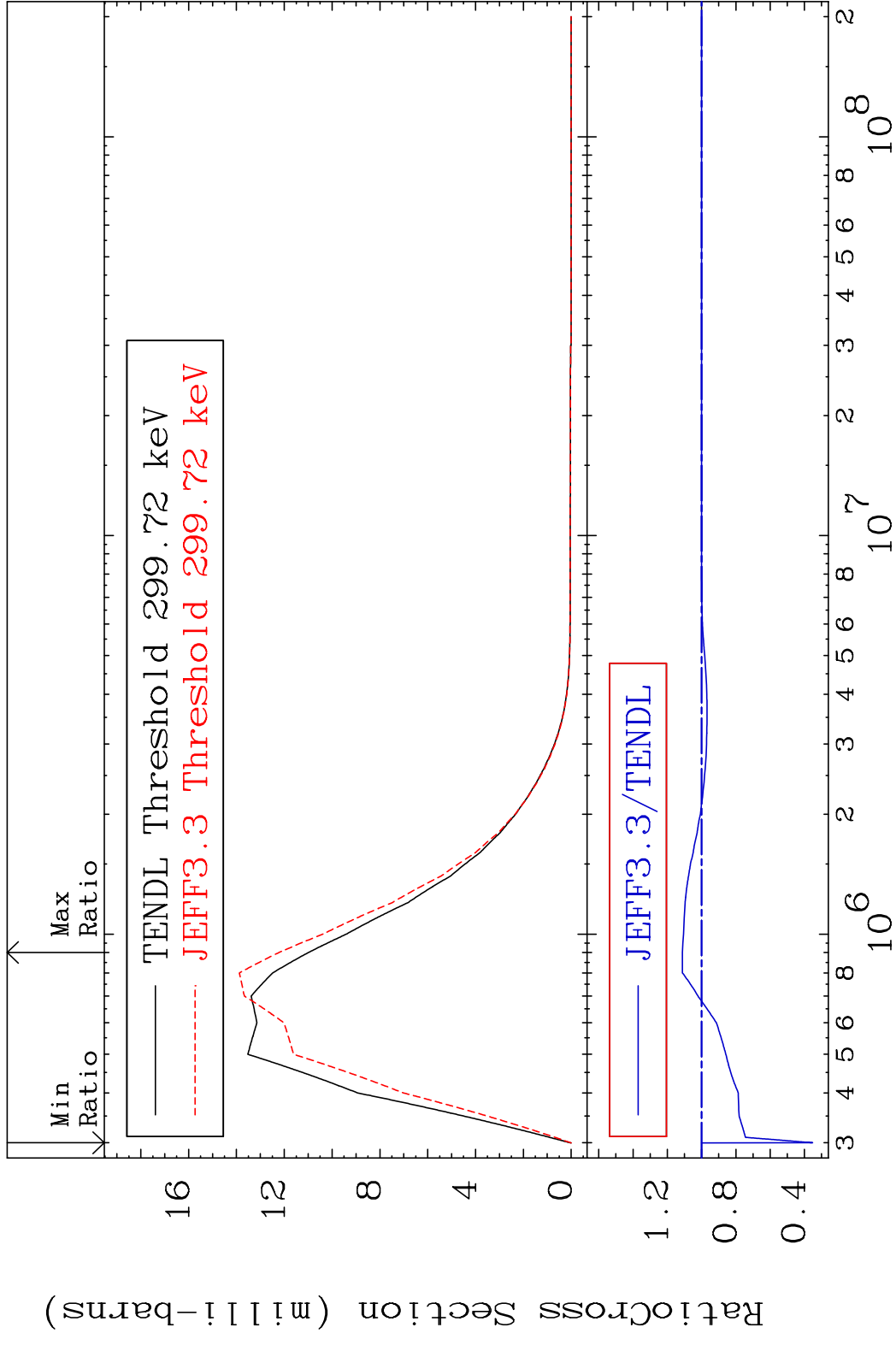
MT= 52 (n, n') Level

67-Ho-163

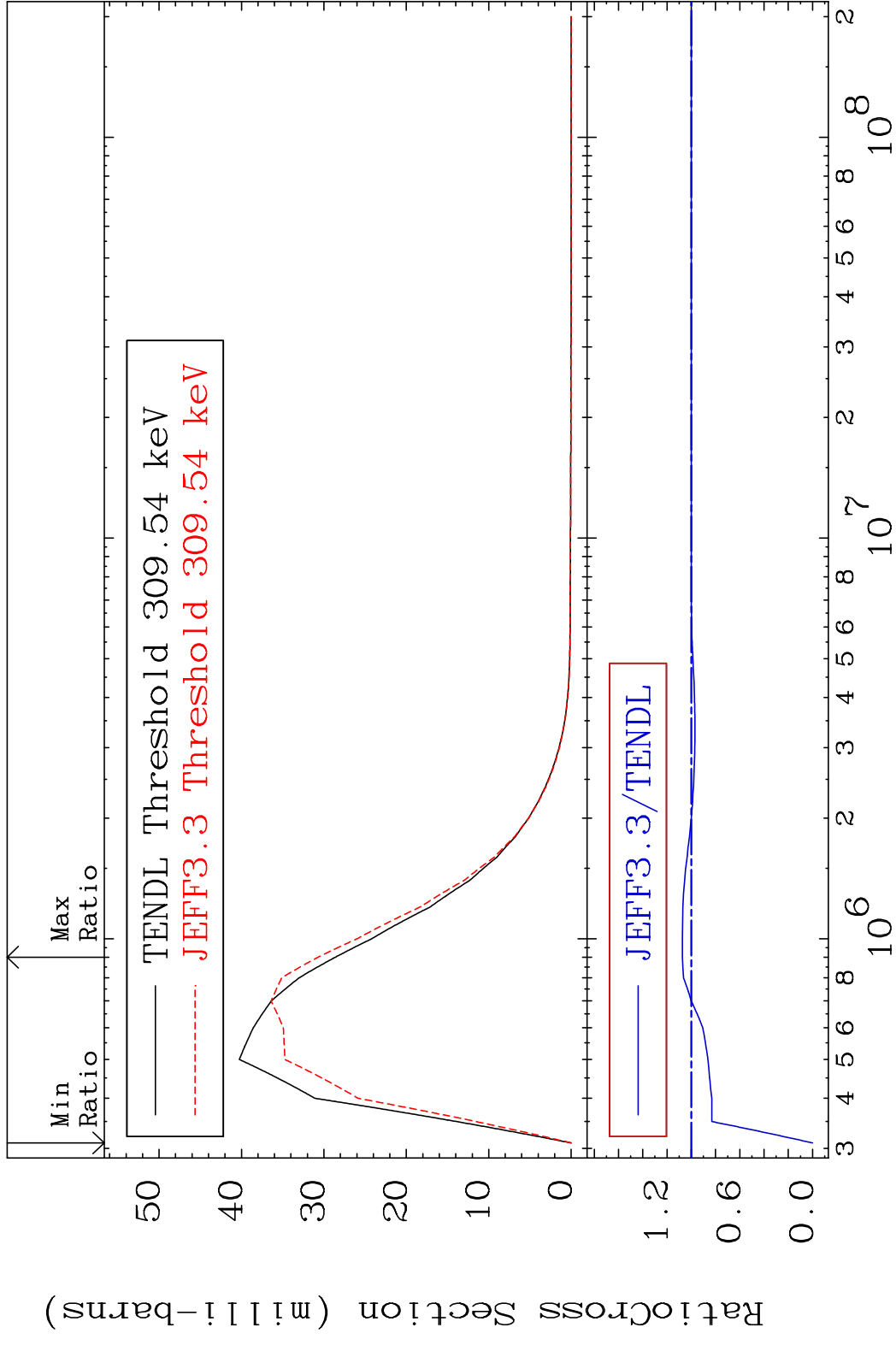
Cross Section -100.0 To 1.551 %



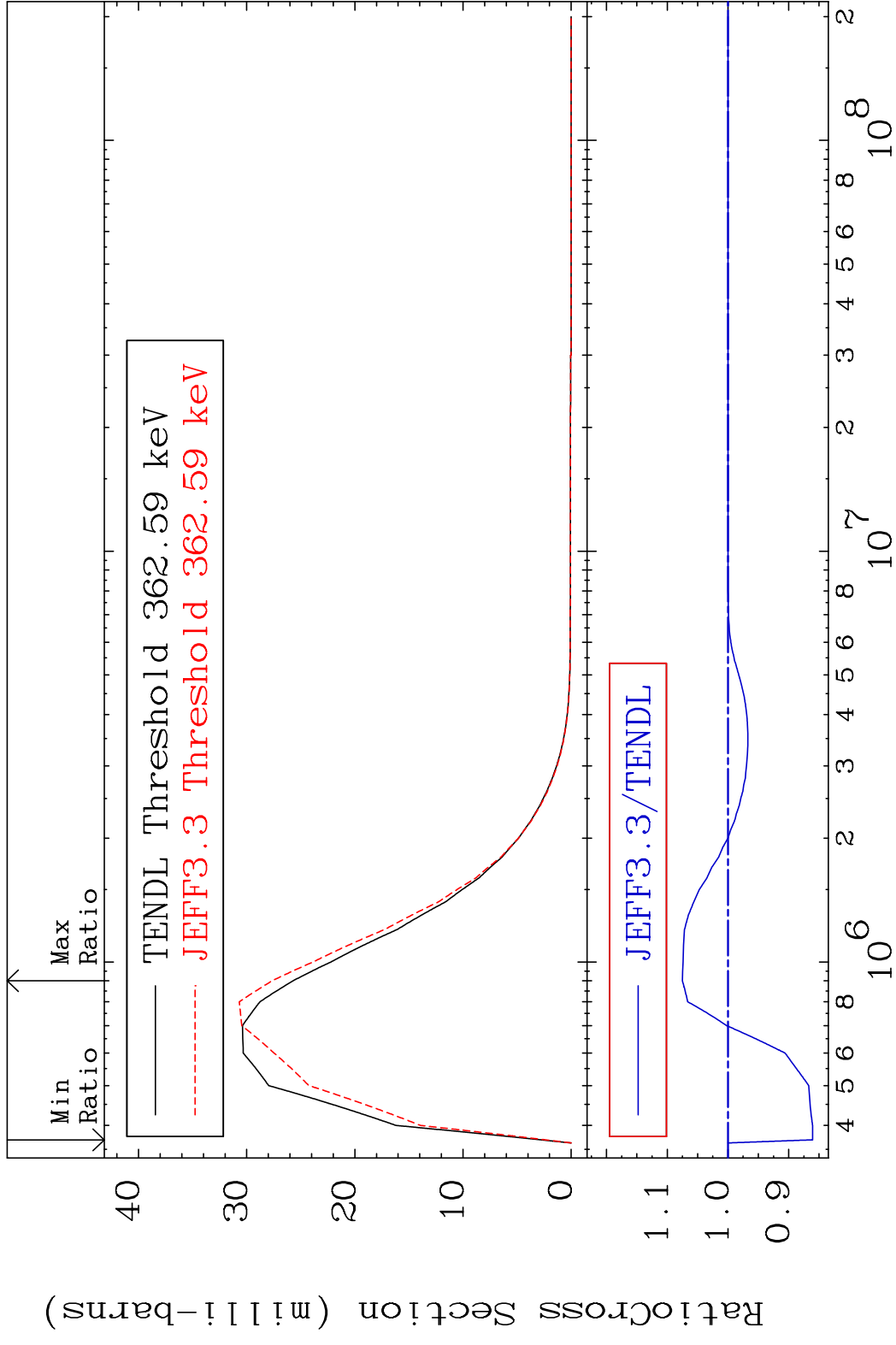
MAT 6719 MT= 53 (n,n') Level 67-Ho-163  
 Cross Section -64.72 To 11.23 %



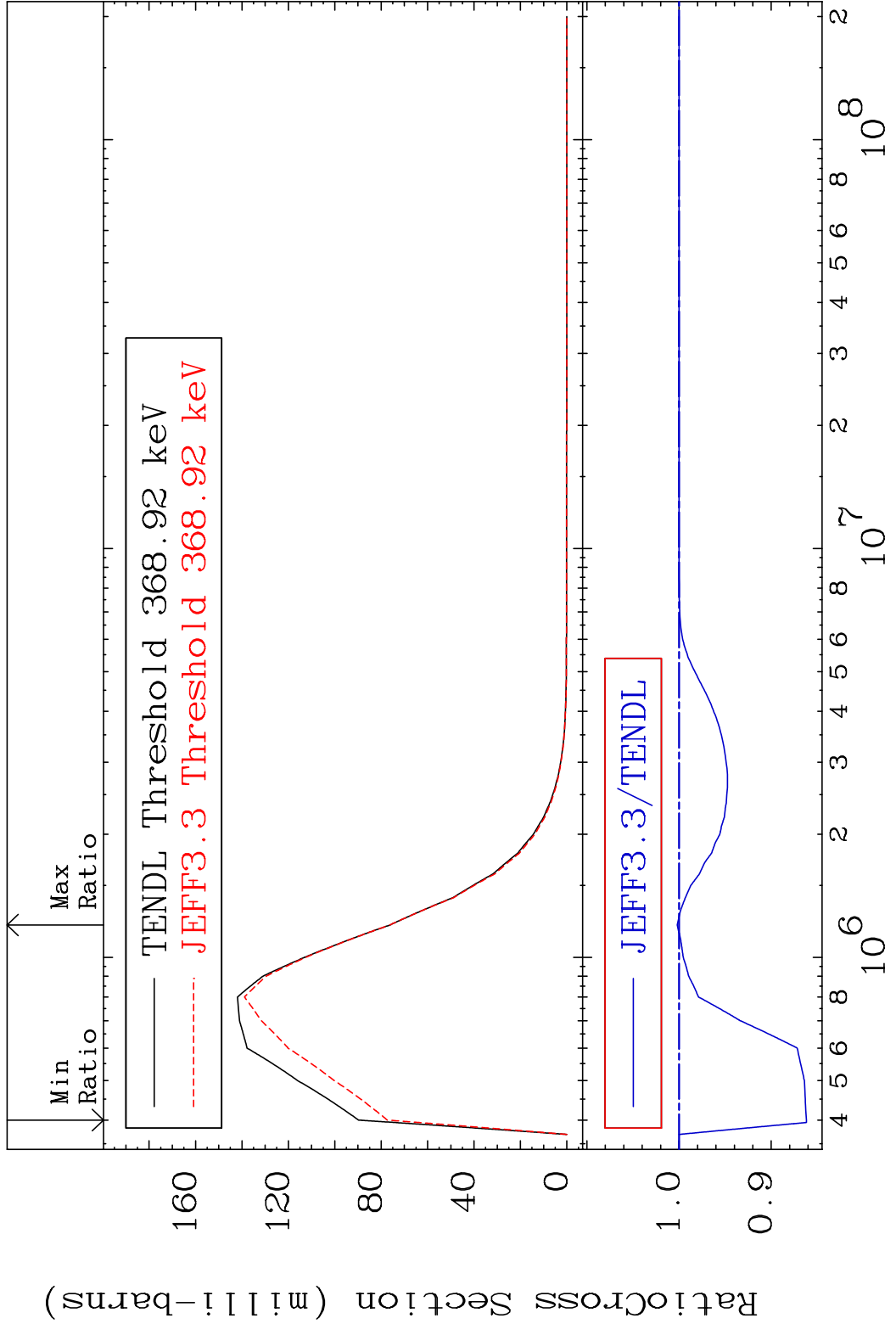
MAT 6719 MT= 54 (n, n') Level 67-Ho-163  
 Cross Section -100.0 To 7.366 %



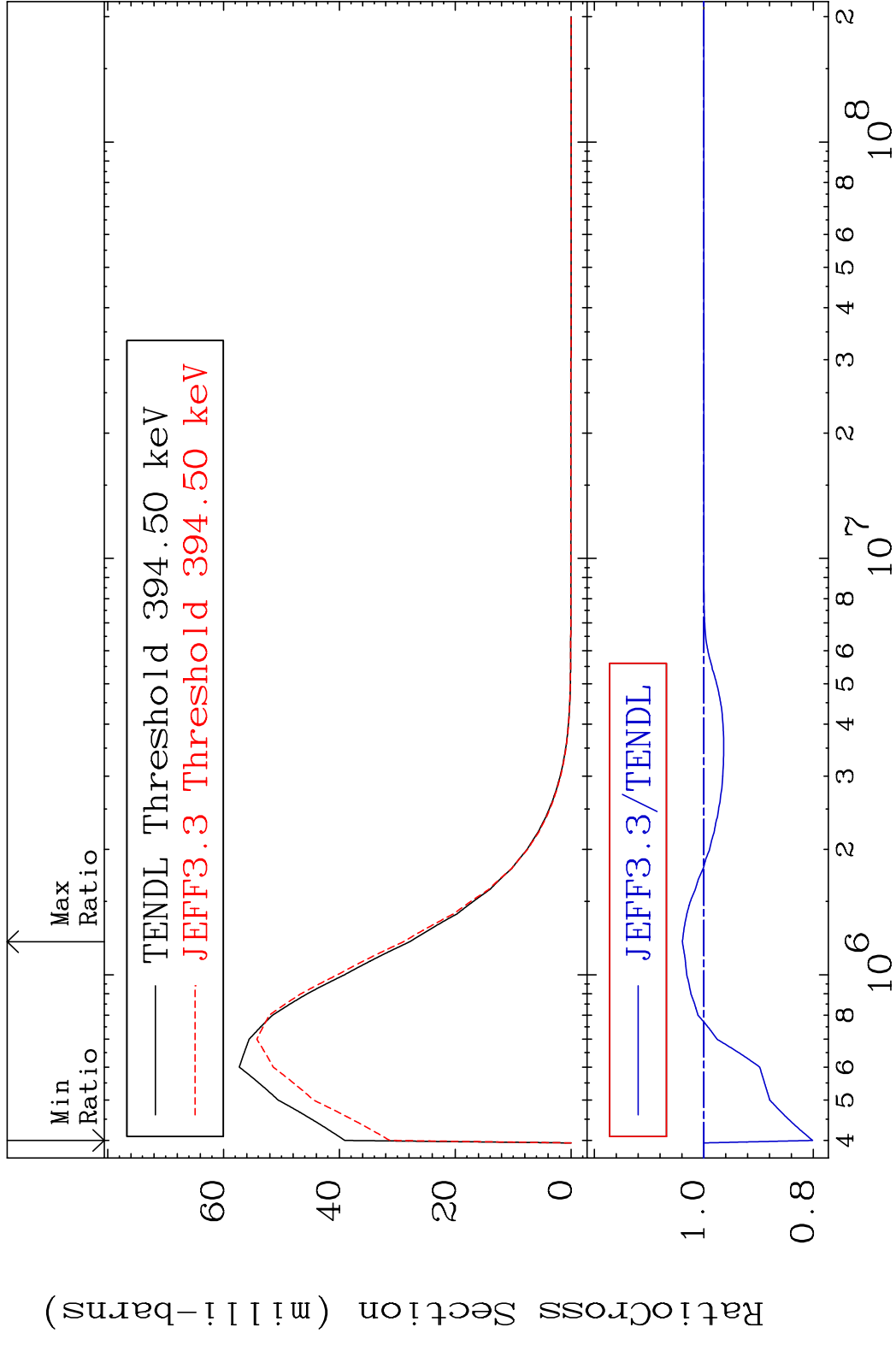
MAT 6719 MT= 55 (n,n') Level 67-Ho-163  
 Cross Section -13.92 To 7.510 %



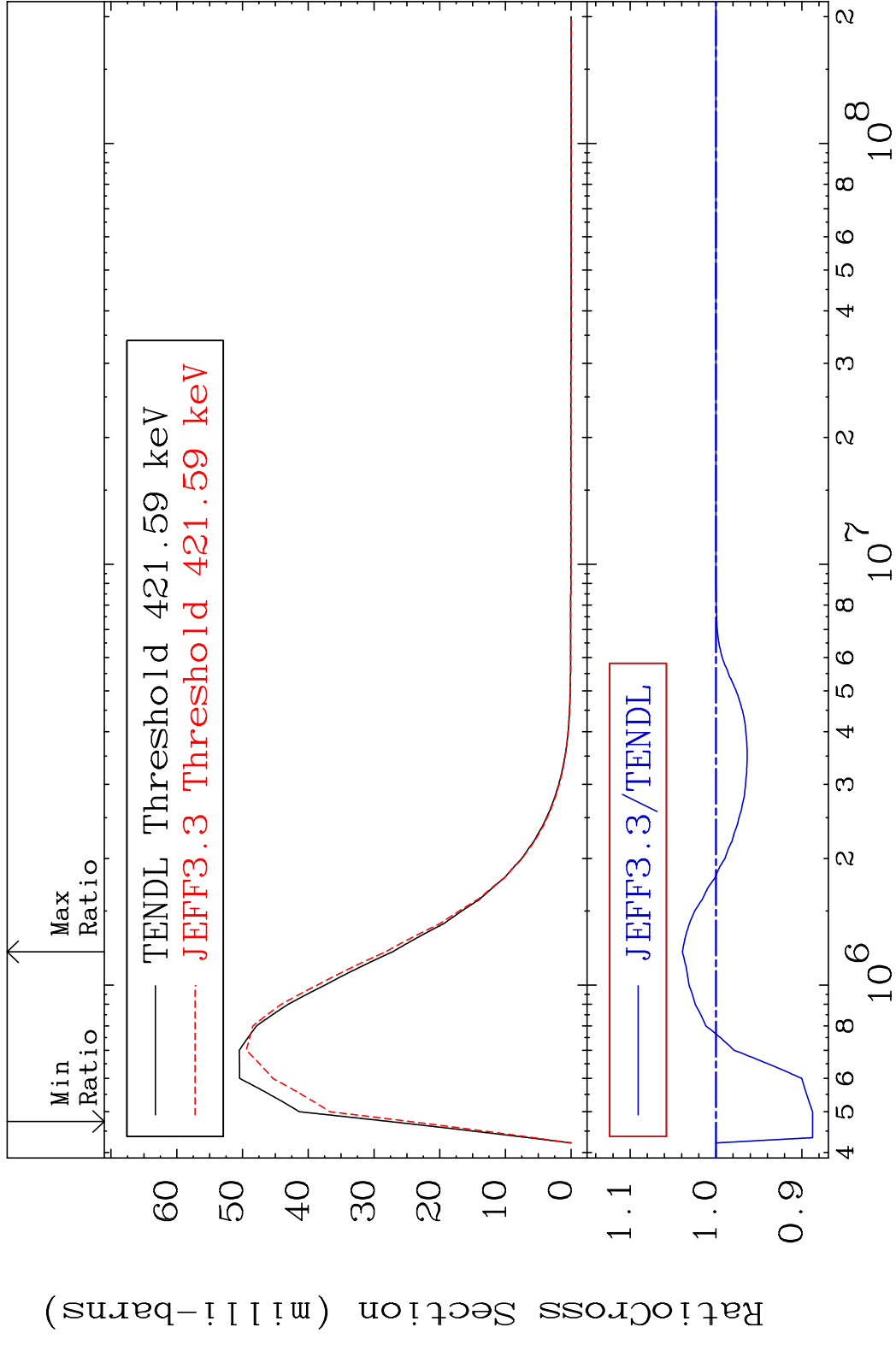
MAT 6719 MT= 56 (n,n') Level 67-Ho-163  
 Cross Section -13.81 To 0.203 %



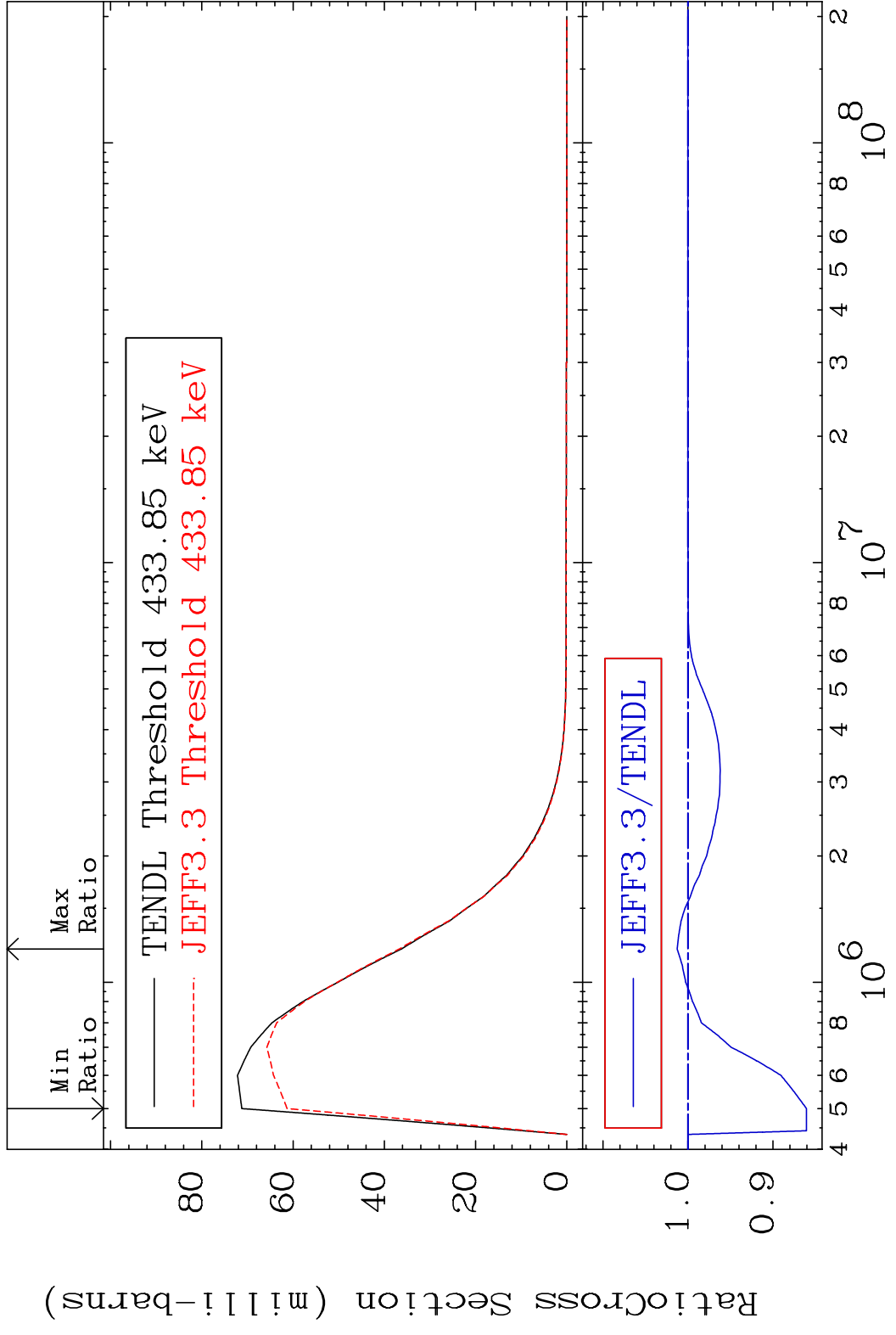
MAT 6719 MT= 57 (n,n') Level 67-Ho-163  
 Cross Section -19.86 To 3.924 %



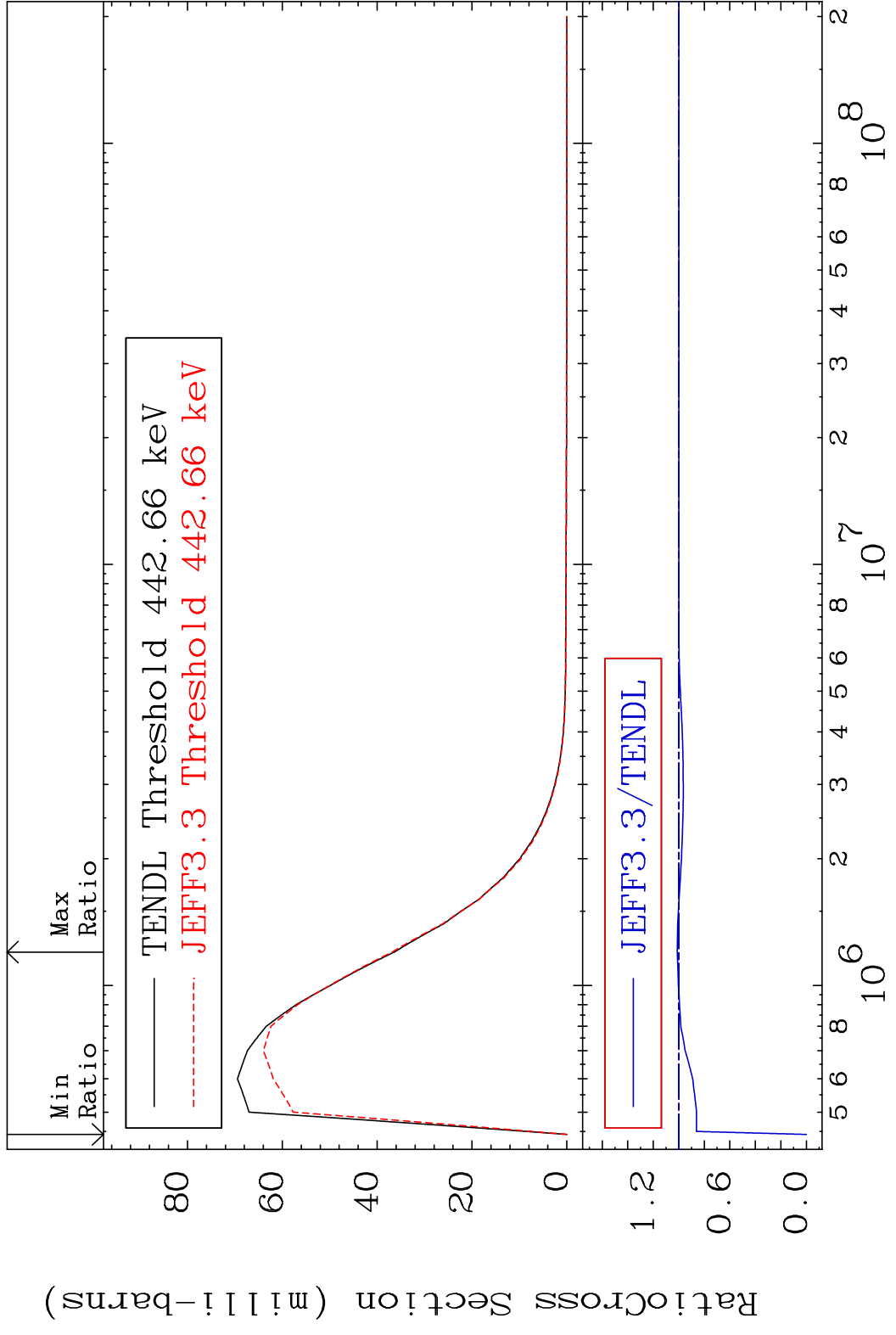
MAT 6719 MT= 58 (n,n') Level 67-Ho-163  
 Cross Section -11.26 To 3.917 %



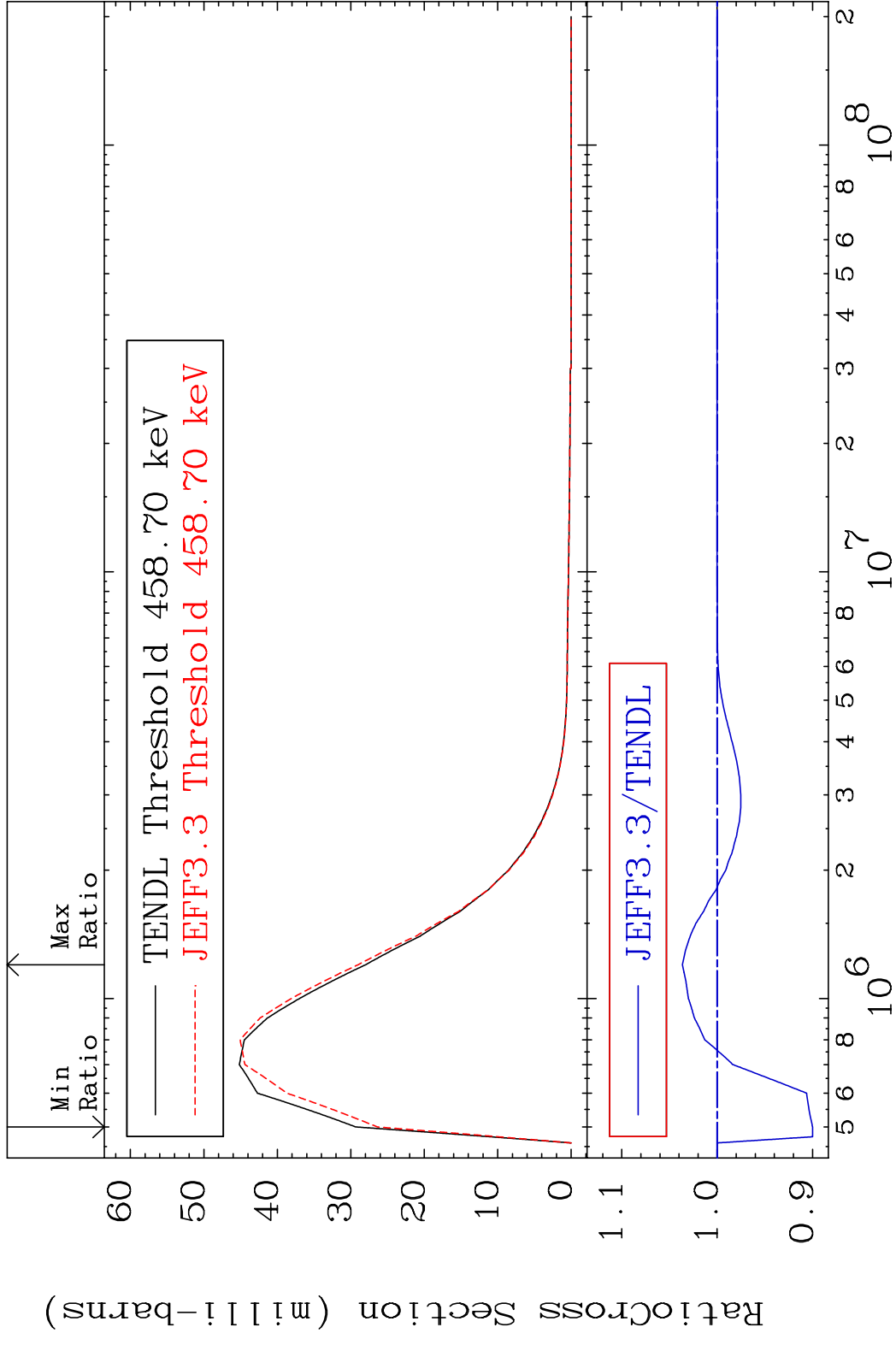
MAT 6719 MT= 59 (n, n') Level 67-Ho-163  
 Cross Section -13.94 To 1.269 %



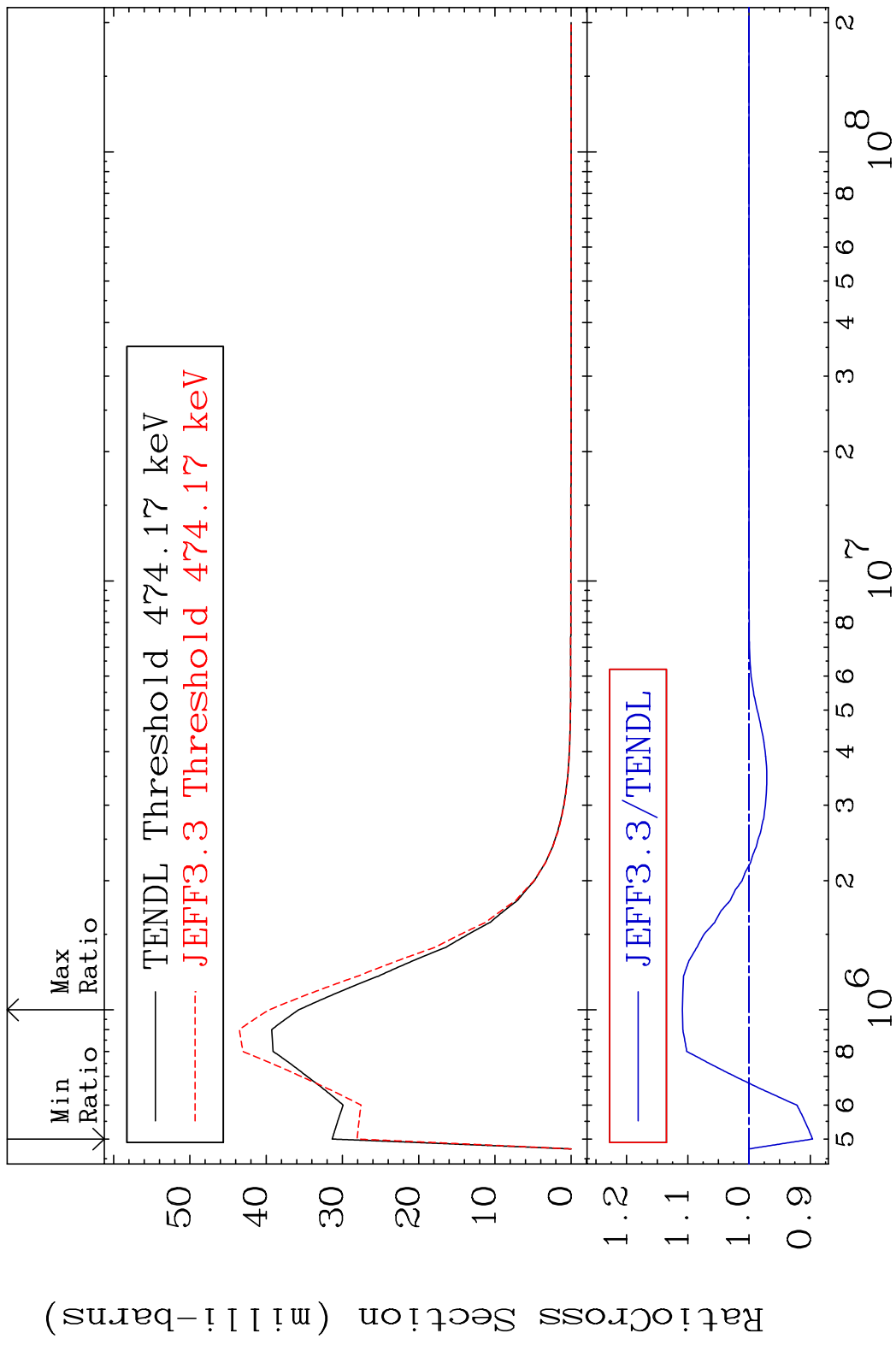
MAT 6719 MT= 60 (n, n') Level 67-Ho-163  
 Cross Section -100.0 To 1.250 %



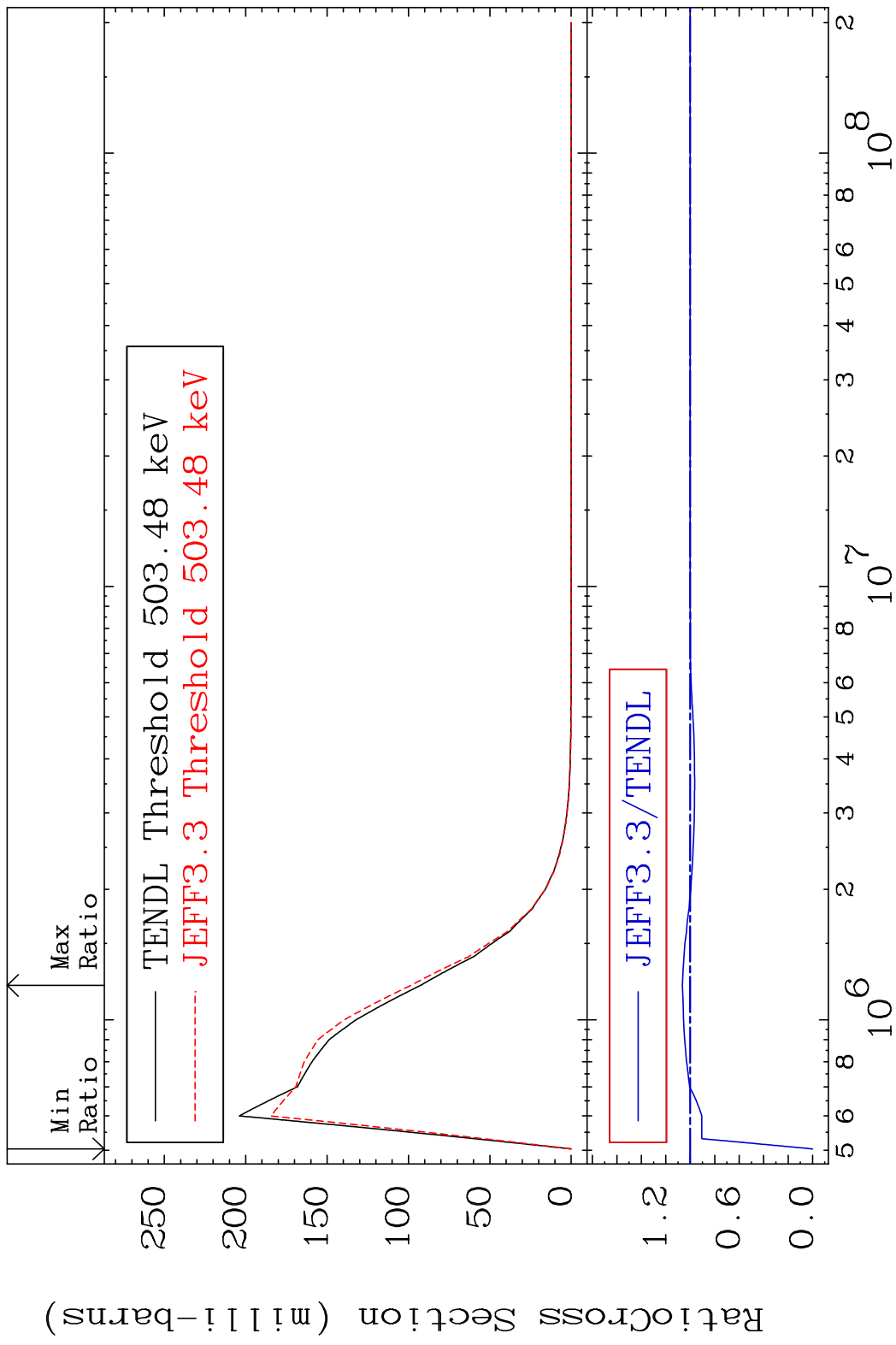
MAT 6719 MT= 61 (n, n') Level 67-Ho-163  
 Cross Section -10.01 To 3.651 %



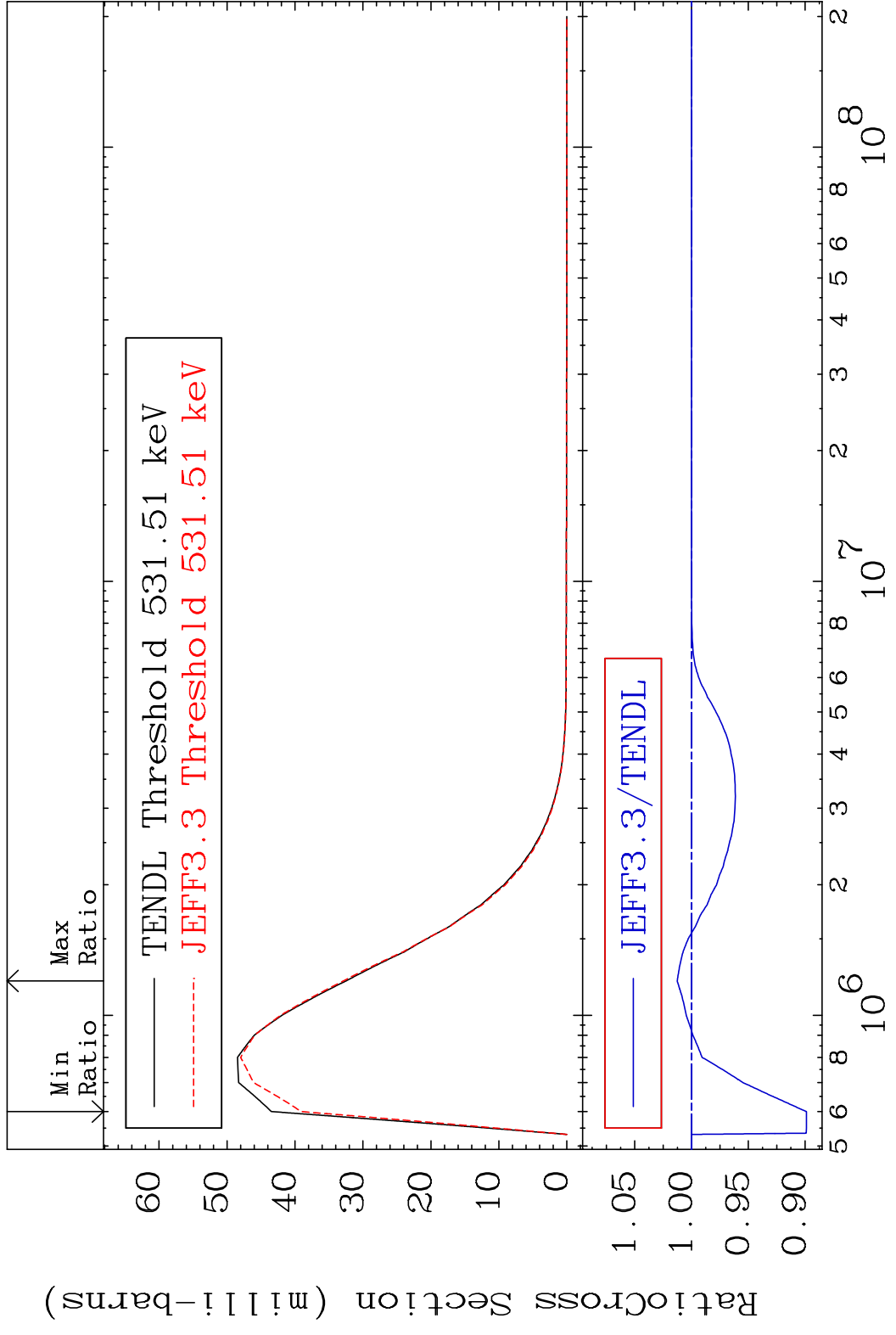
MAT 6719 MT= 62 (n, n') Level 67-Ho-163  
 Cross Section -10.38 To 10.89 %



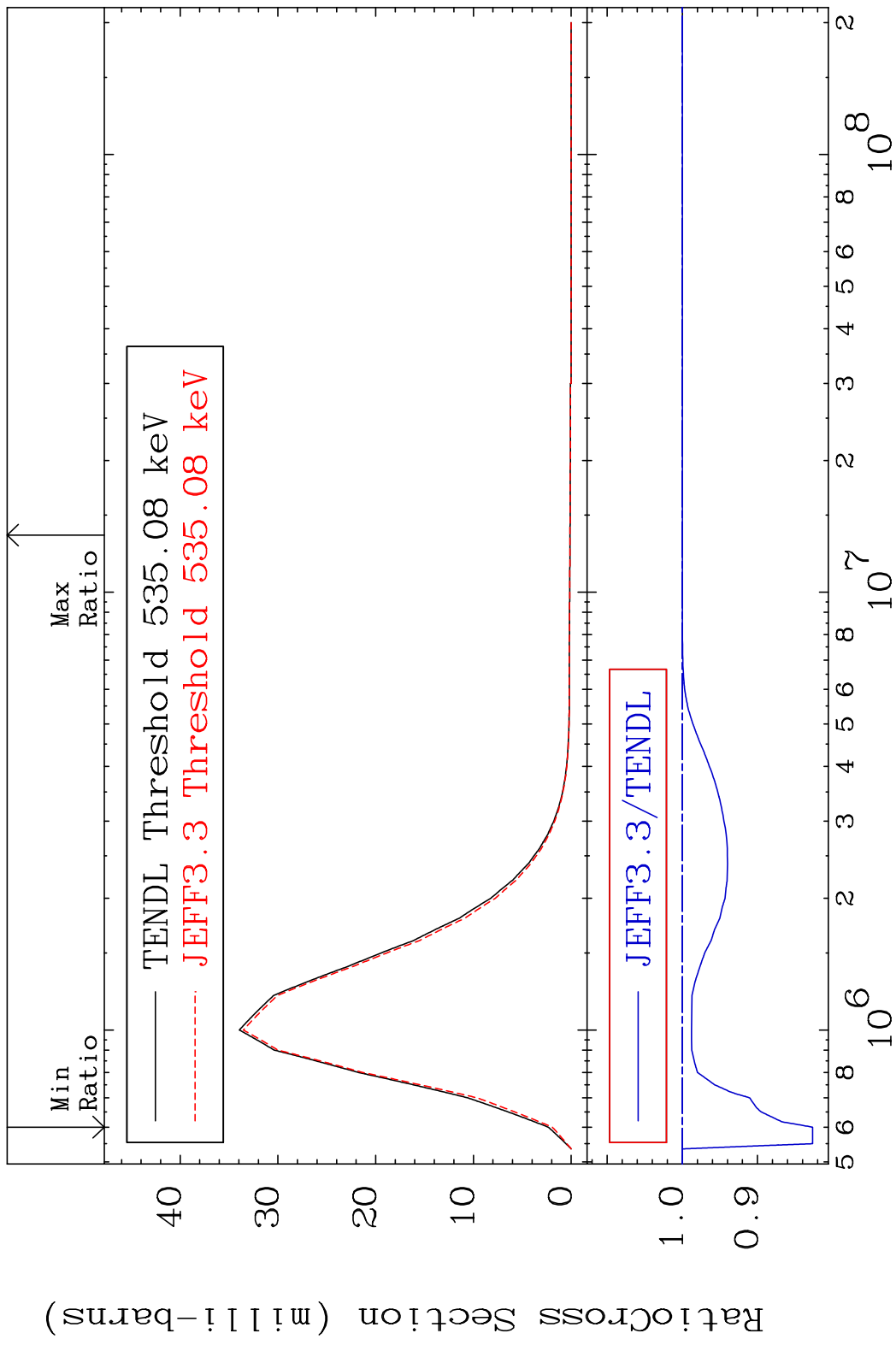
MAT 6719 MT= 63 (n,n') Level 67-Ho-163  
 Cross Section -100.0 To 6.453 %



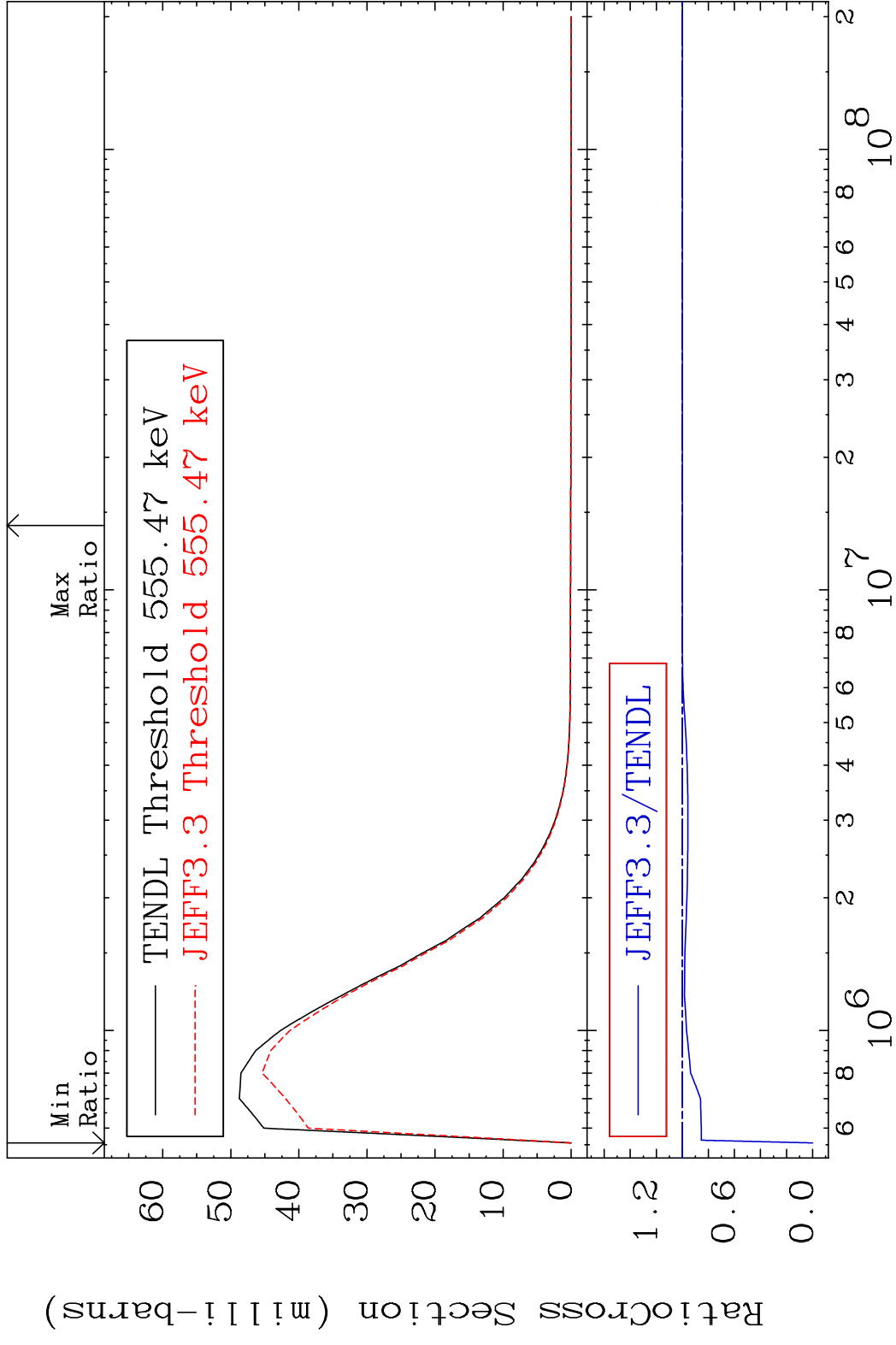
MAT 6719 MT= 64 (n,n') Level 67-Ho-163  
 Cross Section -10.12 To 1.263 %



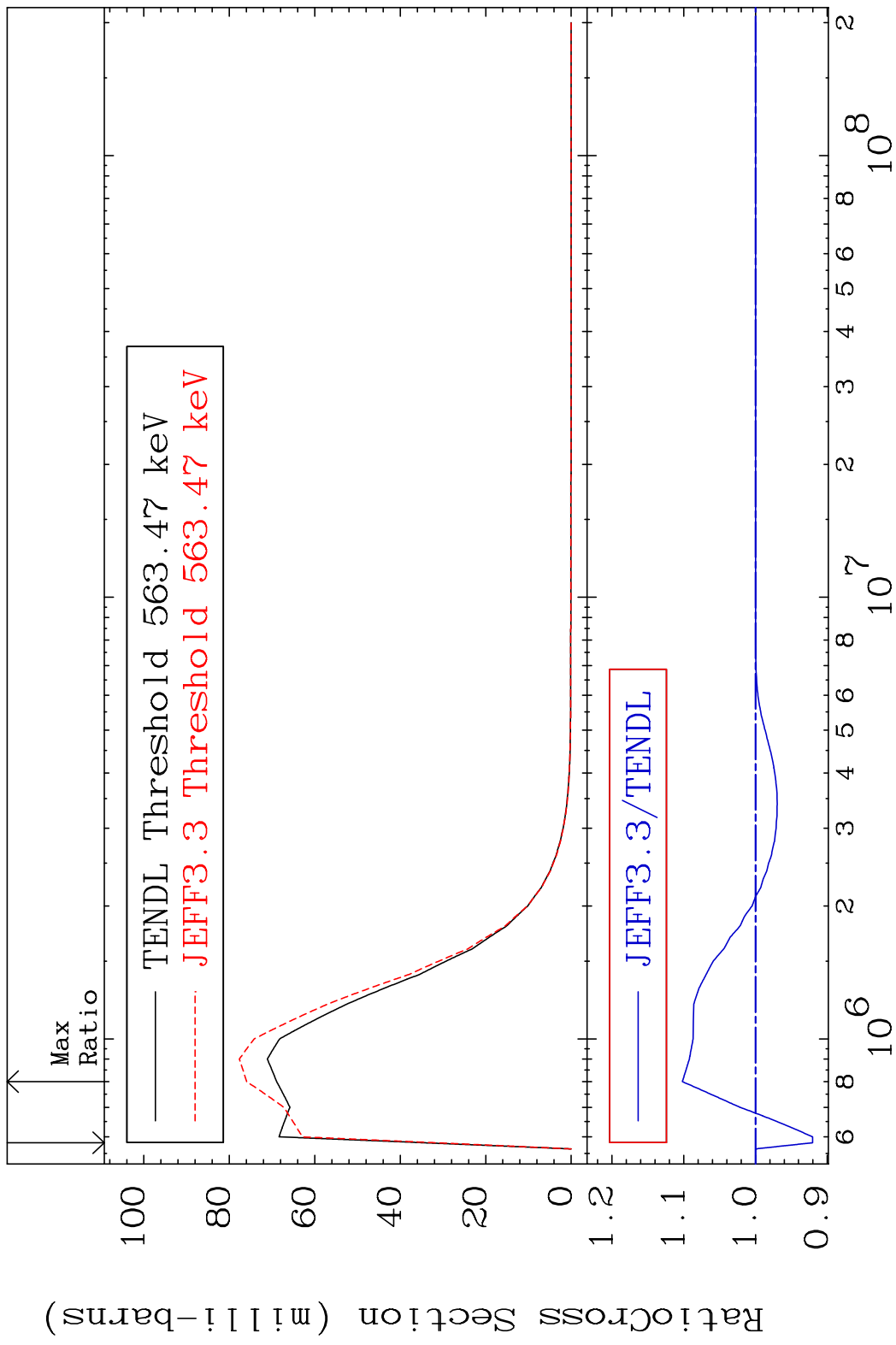
MAT 6719 MT= 65 (n, n') Level 67-Ho-163  
 Cross Section -17.33 To 0.000 %



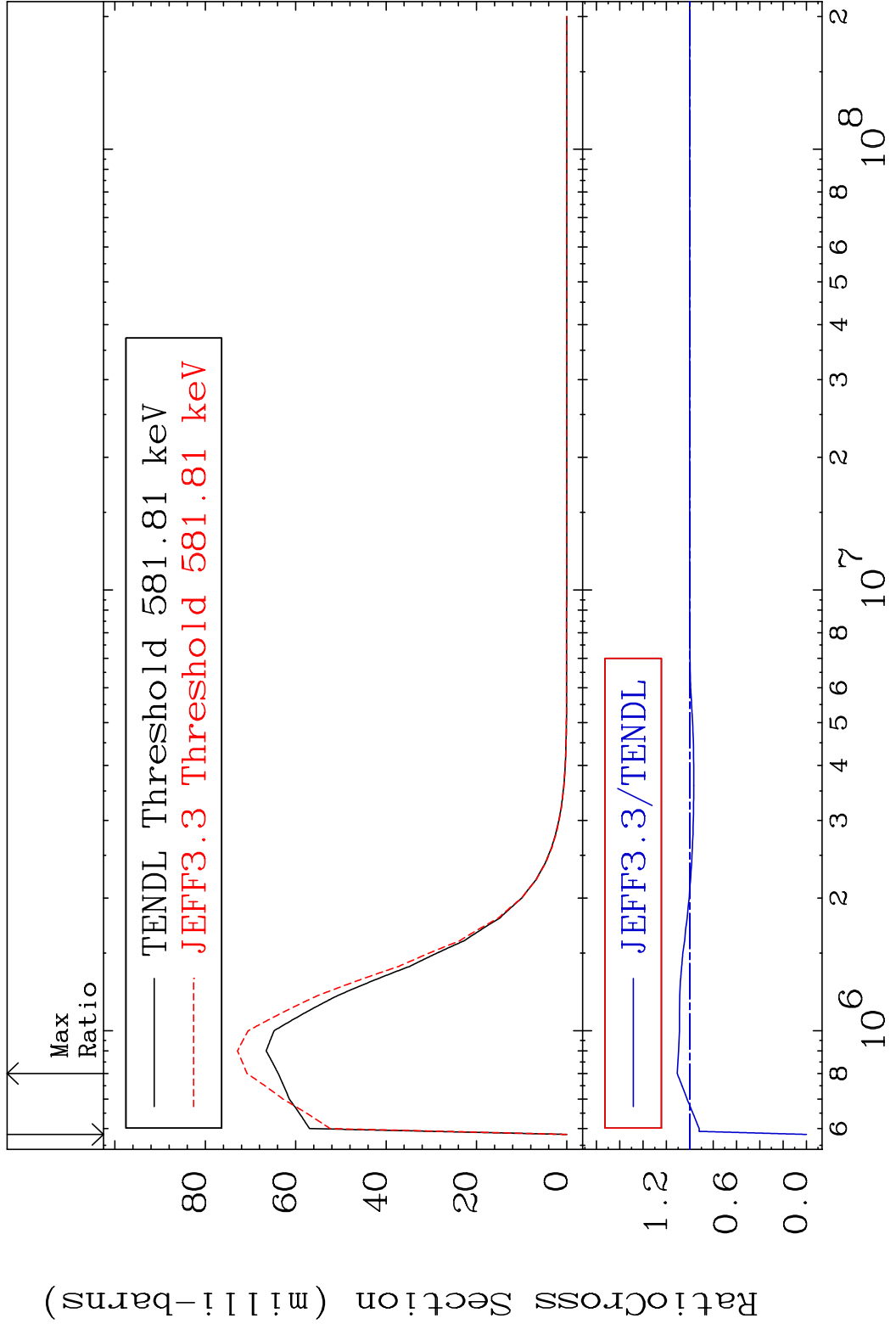
MAT 6719 MT= 66 (n, n') Level 67-Ho-163  
 Cross Section -100.0 To 0.000 %



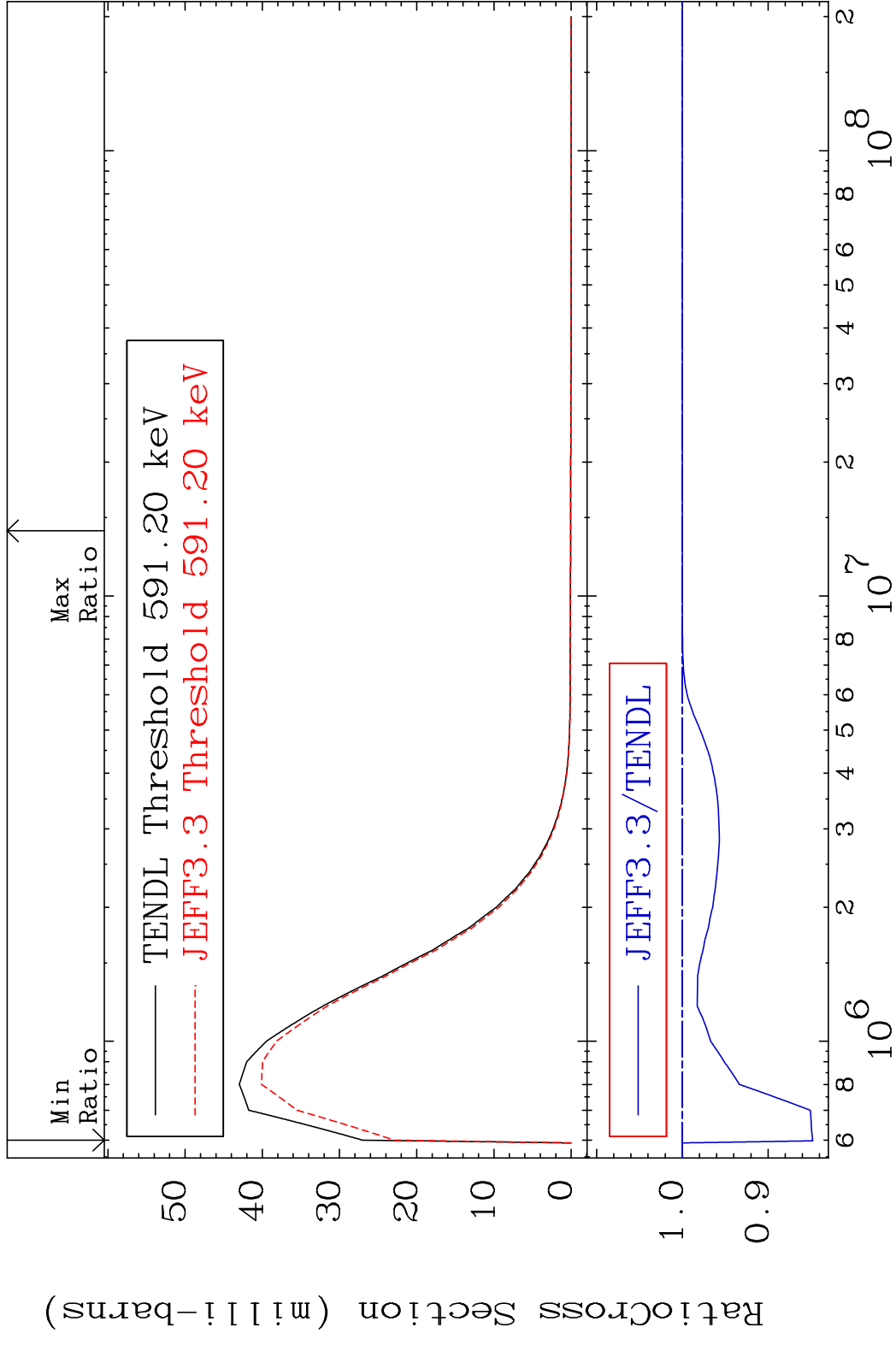
MAT 6719 MT= 67 (n,n') Level 67-Ho-163  
 Cross Section -7.948 To 10.20 %



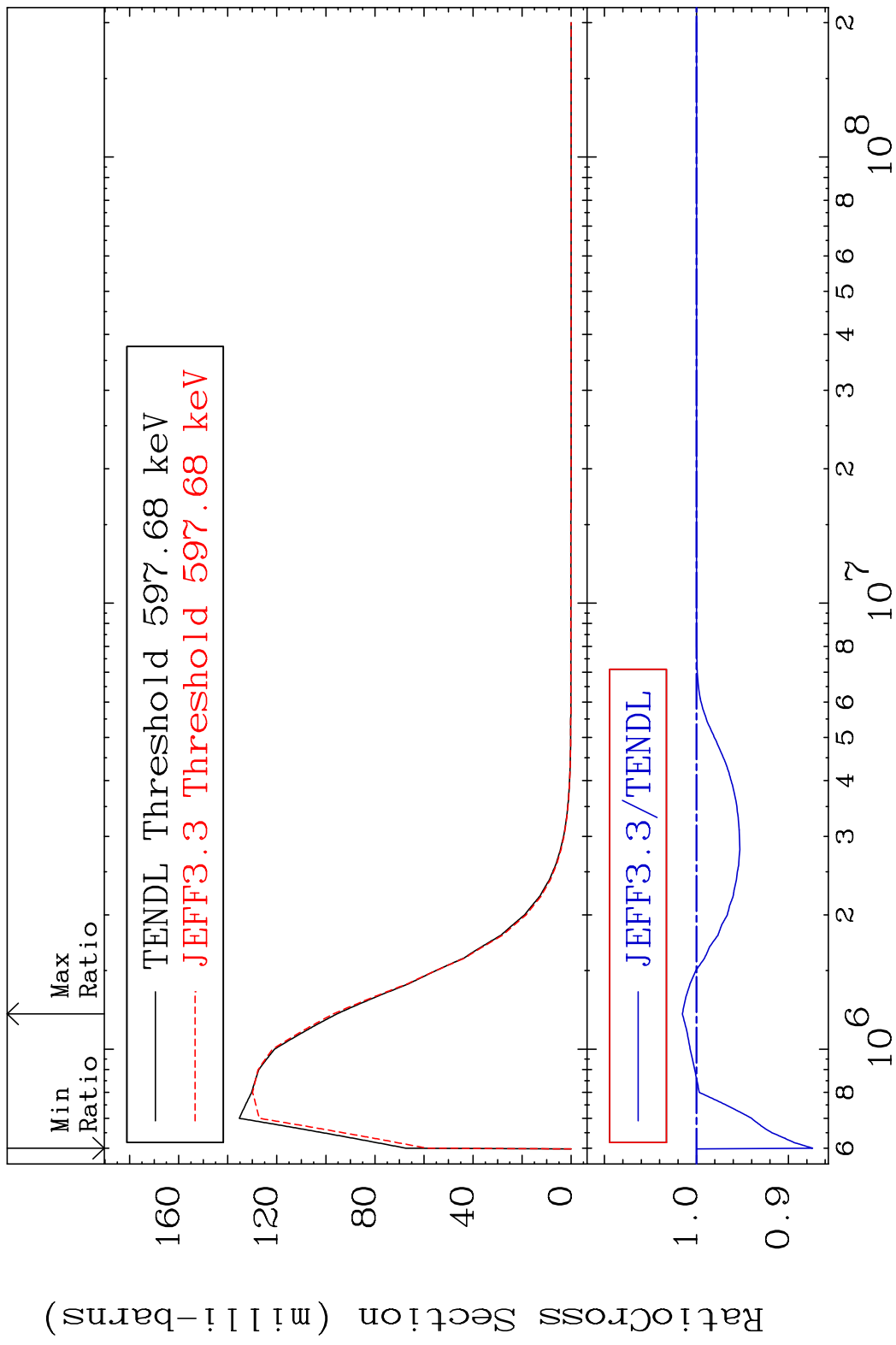
MAT 6719 MT= 68 (n, n') Level 67-Ho-163  
 Cross Section -100.0 To 10.79 %



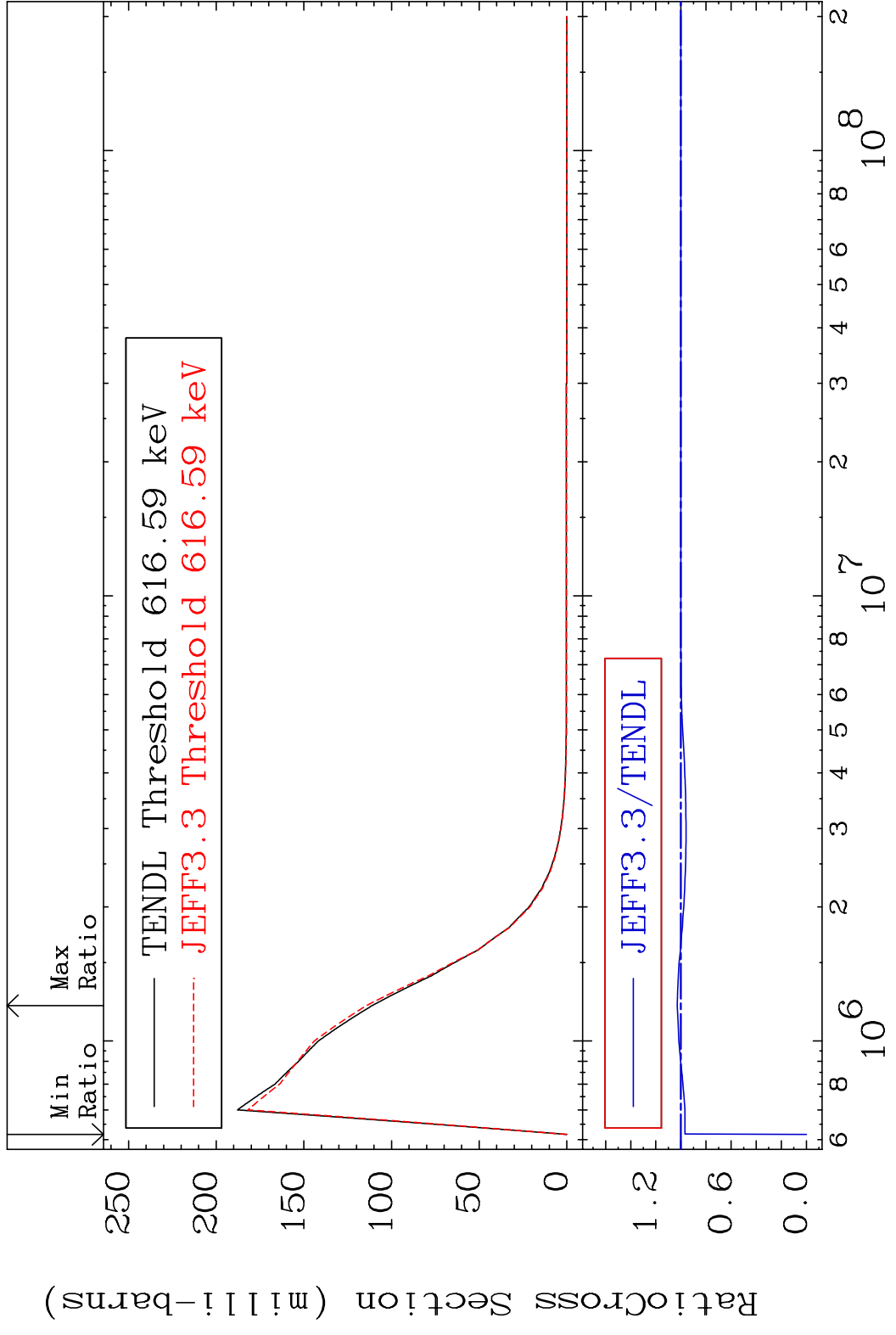
MAT 6719 MT= 69 (n, n') Level 67-Ho-163  
 Cross Section -15.19 To 0.000 %



MAT 6719 MT= 70 (n,n') Level 67-Ho-163  
 Cross Section -12.62 To 1.534 %

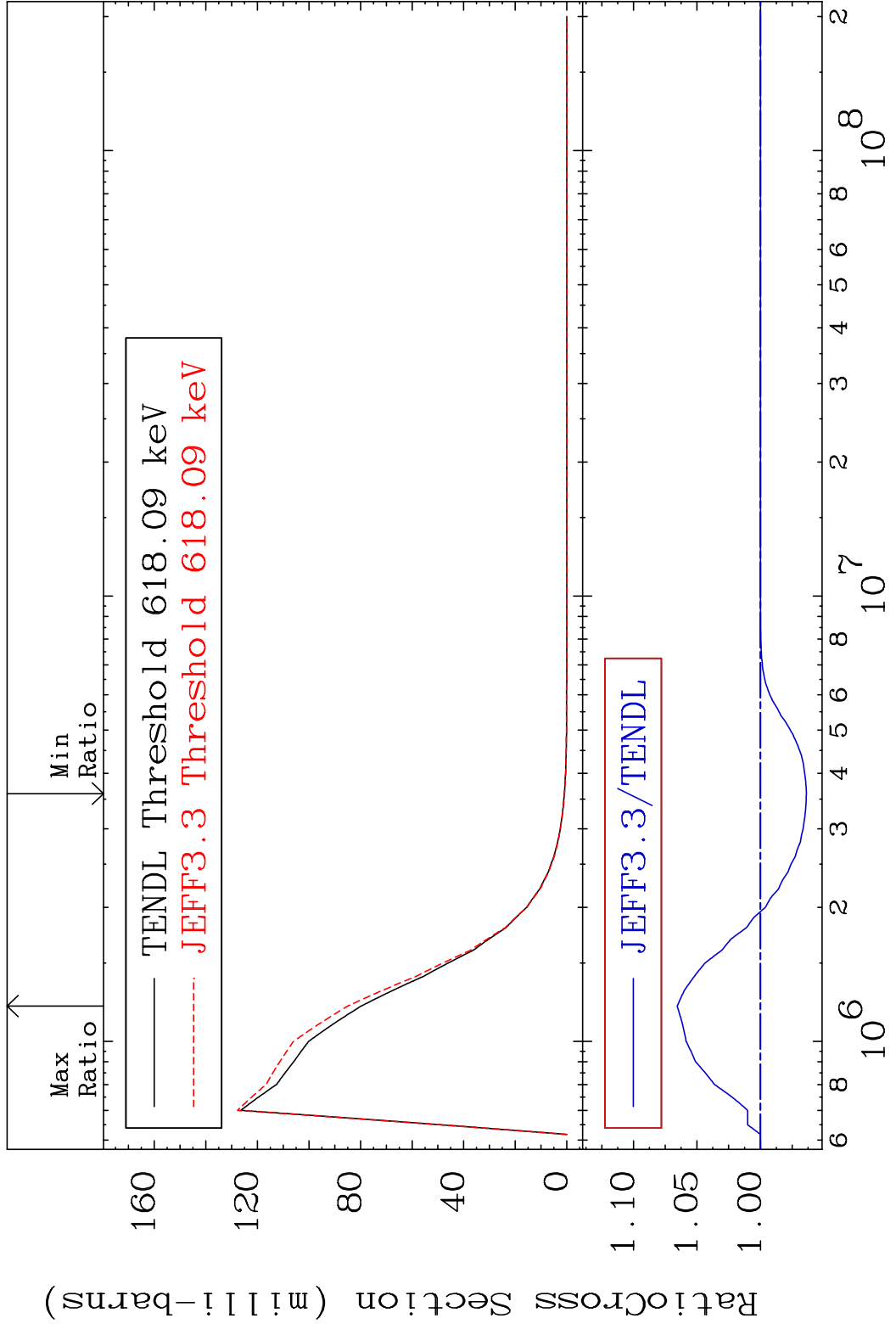


MAT 6719 MT= 71 (n, n') Level 67-Ho-163  
 Cross Section -100.0 To 2.977 %



40 Incident Energy (eV) 67-Ho-163

MAT 6719 MT= 72 (n, n') Level 67-Ho-163  
 Cross Section -3.623 To 6.558 %

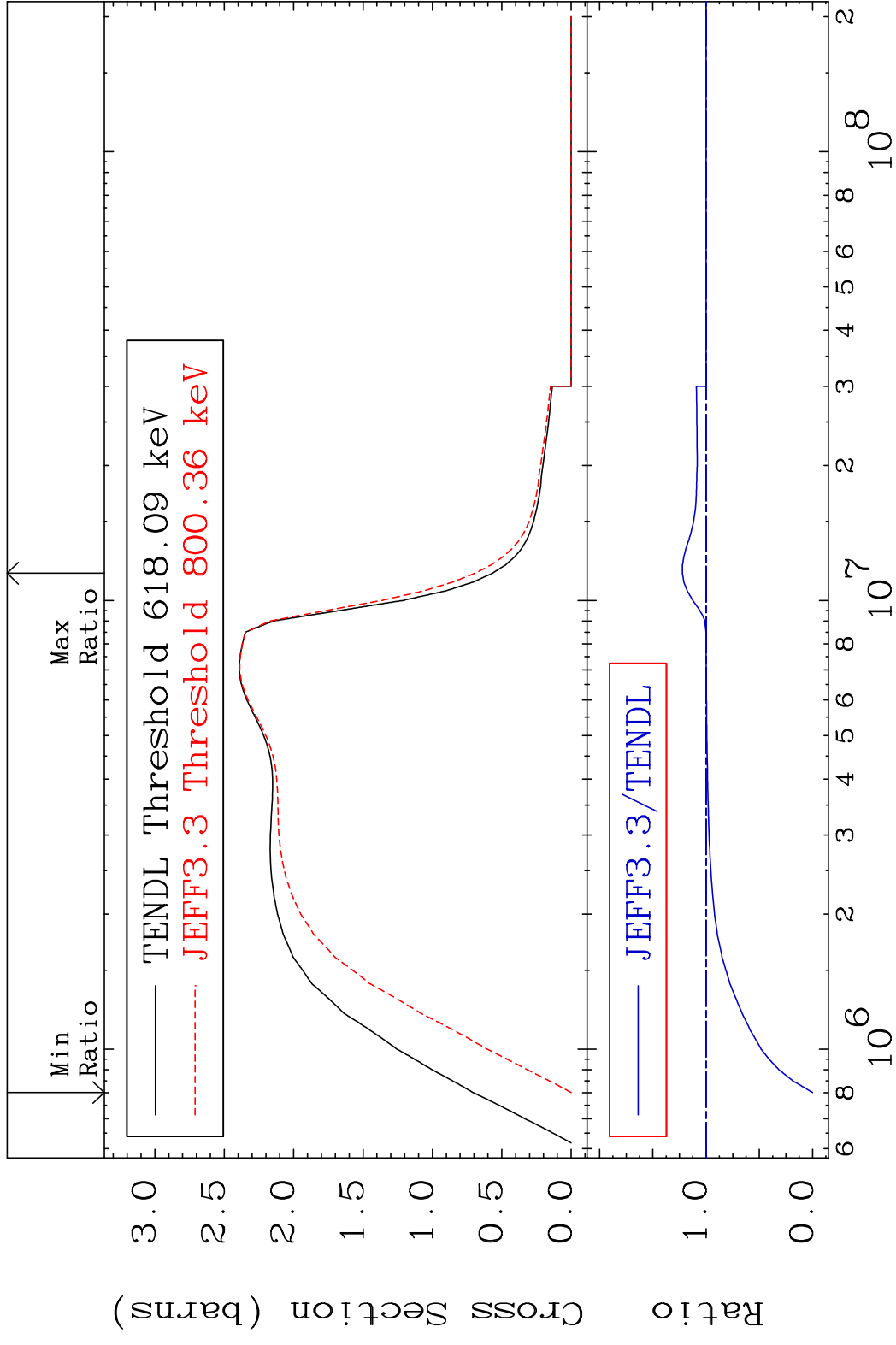


MAT 6719

(n, n') Continuum

67-Ho-163

Cross Section -100.0 To 22.27 %



42

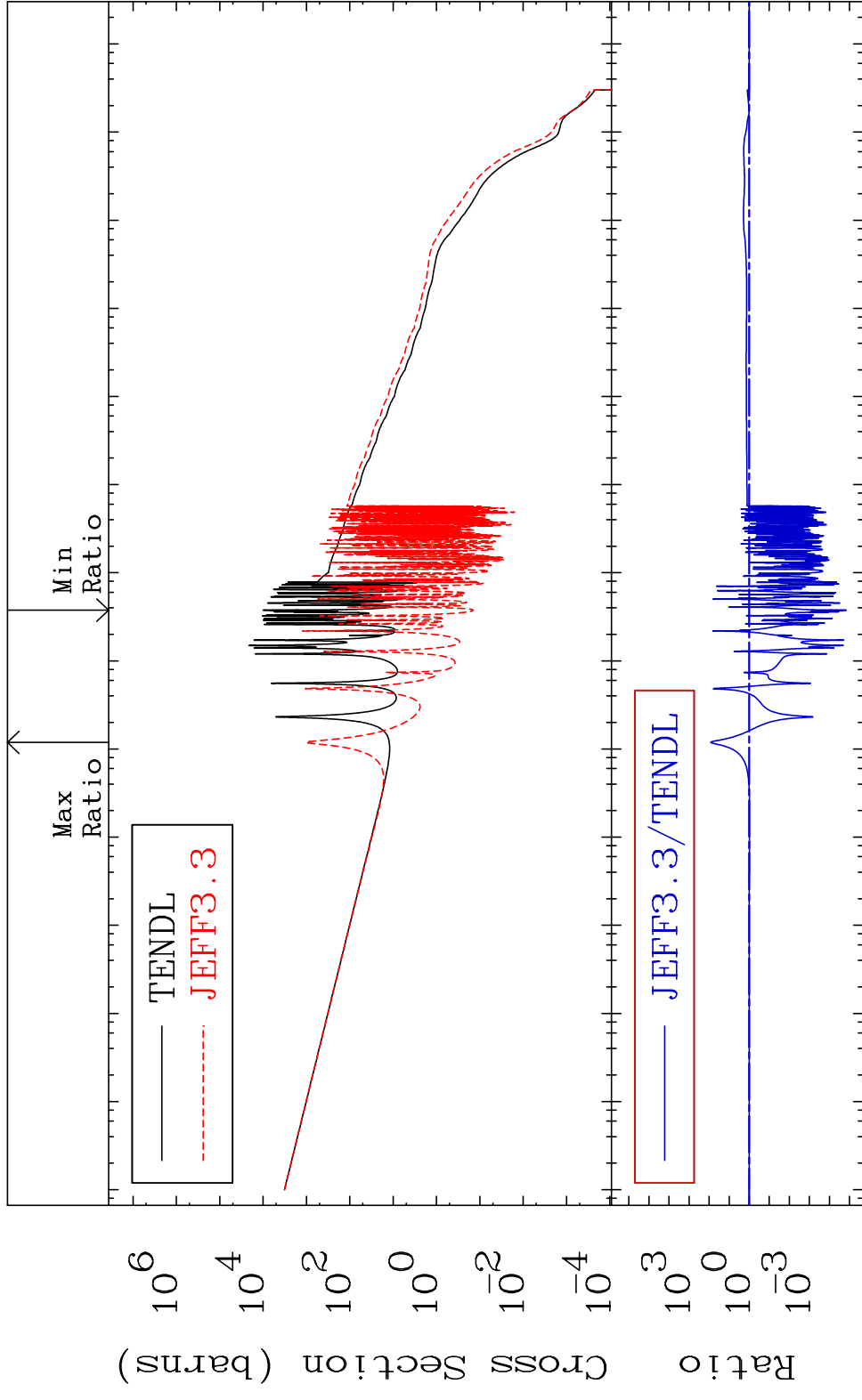
Incident Energy (eV)

67-Ho-163

MAT 6719

(n,  $\gamma$ )  
Cross Section -100.0 To 8231. %

67-Ho-163



10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
10<sup>-4</sup>  
Ratio  
10<sup>3</sup>  
10<sup>0</sup>  
10<sup>-3</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>

43

Incident Energy (eV)

67-Ho-163

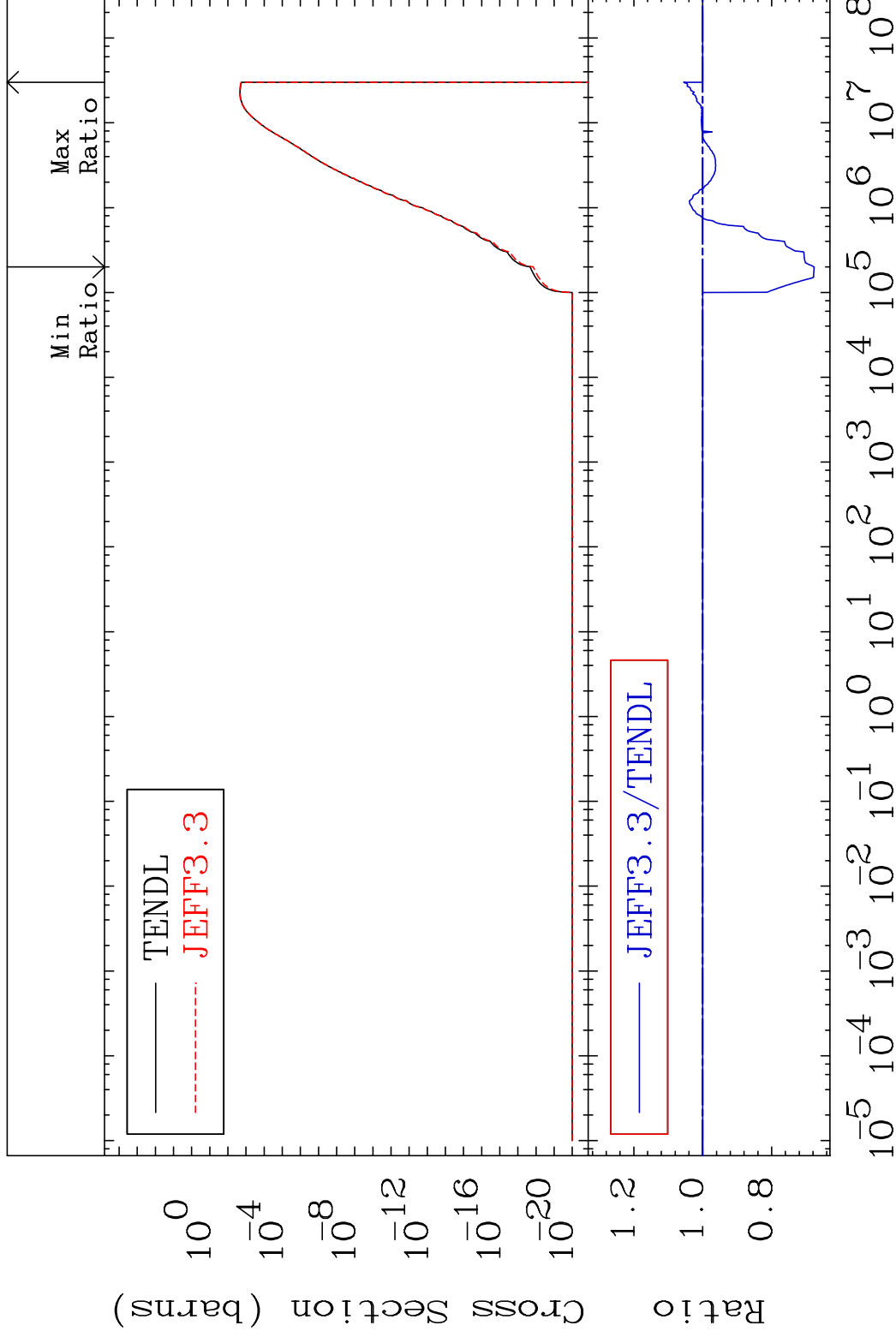
MAT 6719

(n, p)

67-Ho-163

Cross Section

-32.32 To 5.531 %



44

Incident Energy (eV)

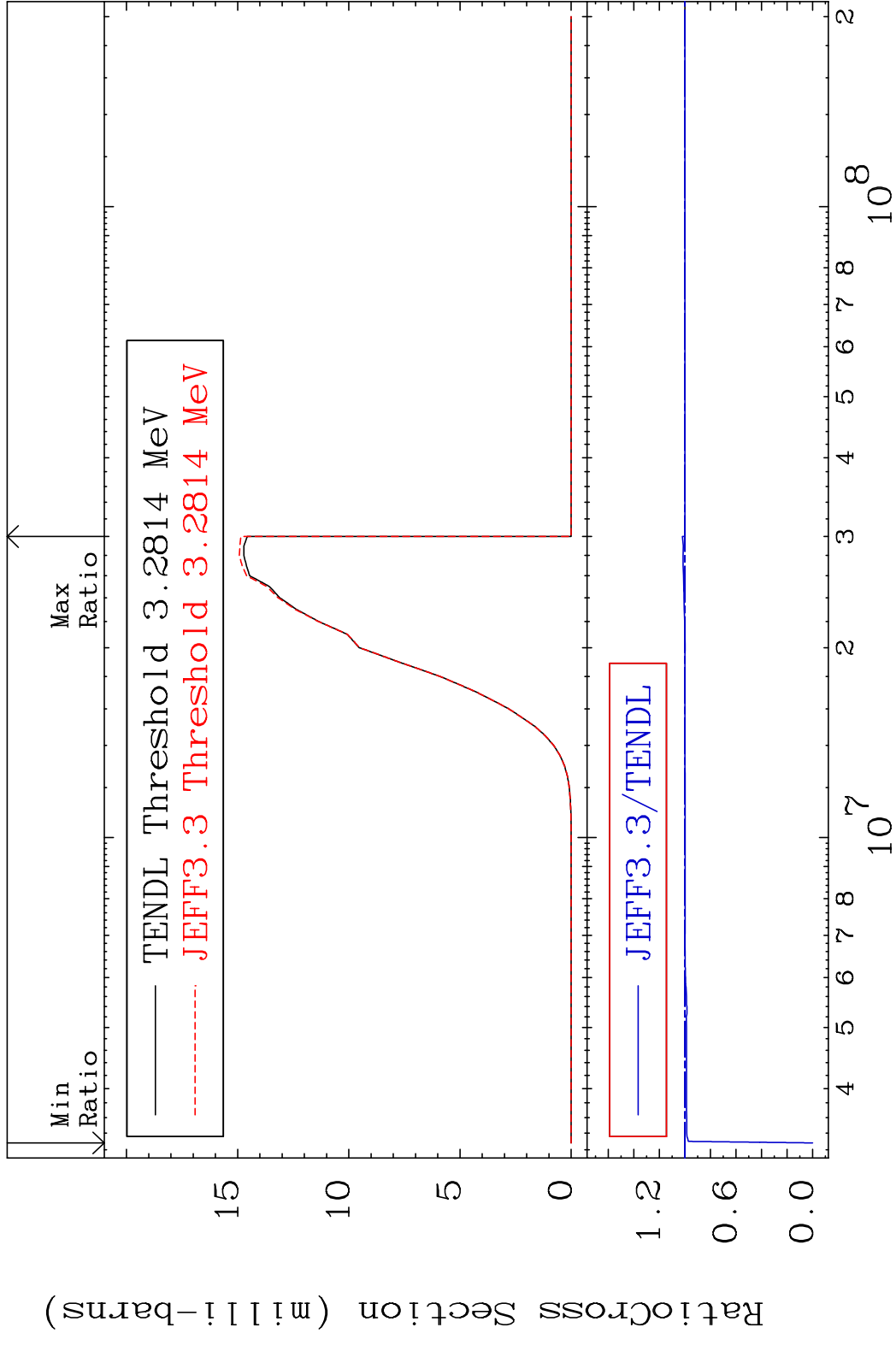
67-Ho-163

MAT 6719

67-Ho-163

(n,d)

Cross Section -100.0 To 1.947 %



45

Incident Energy (eV)

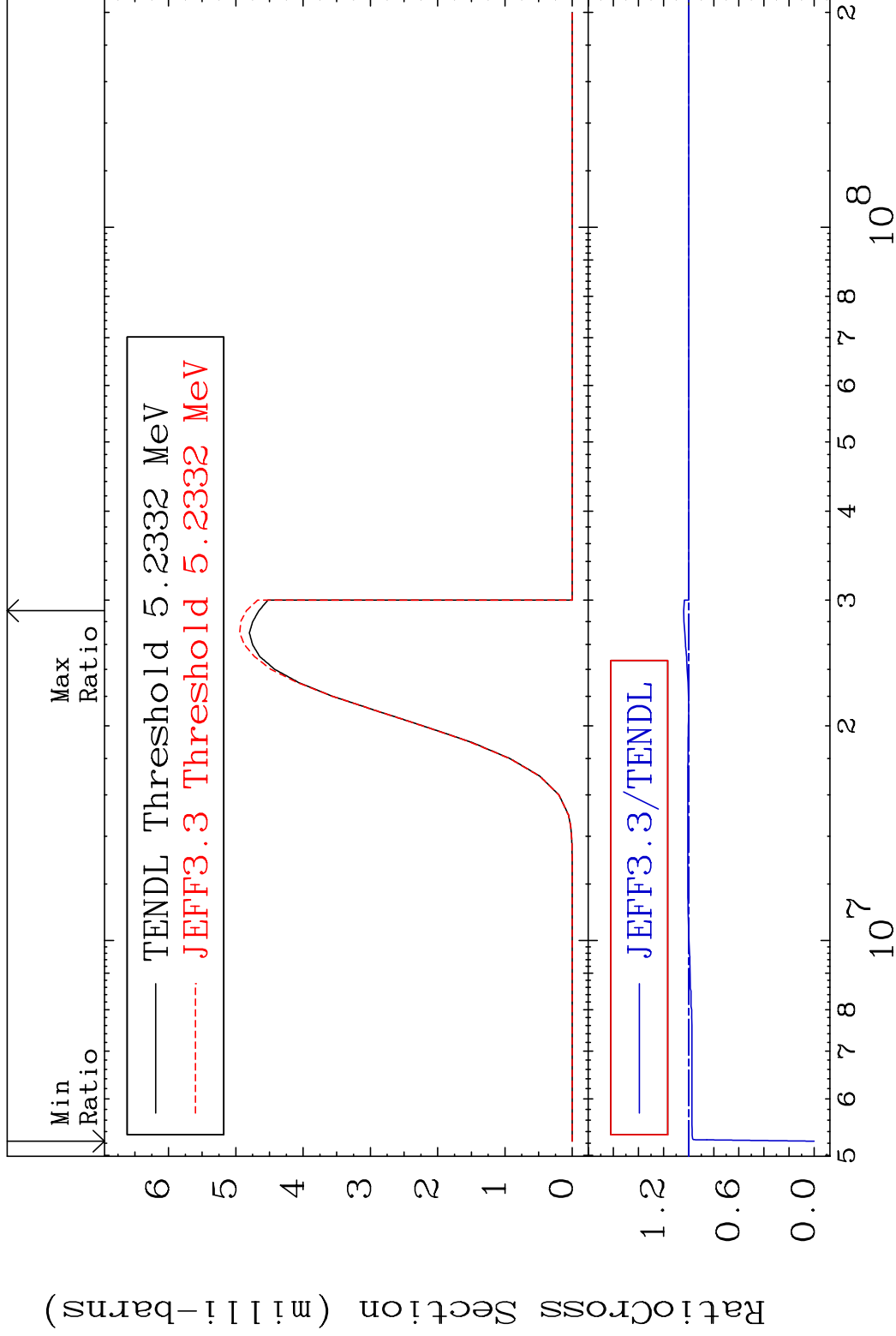
67-Ho-163

MAT 6719

(n, t)

67-Ho-163

Cross Section -100.0 To 3.997 %



46

Incident Energy (eV)

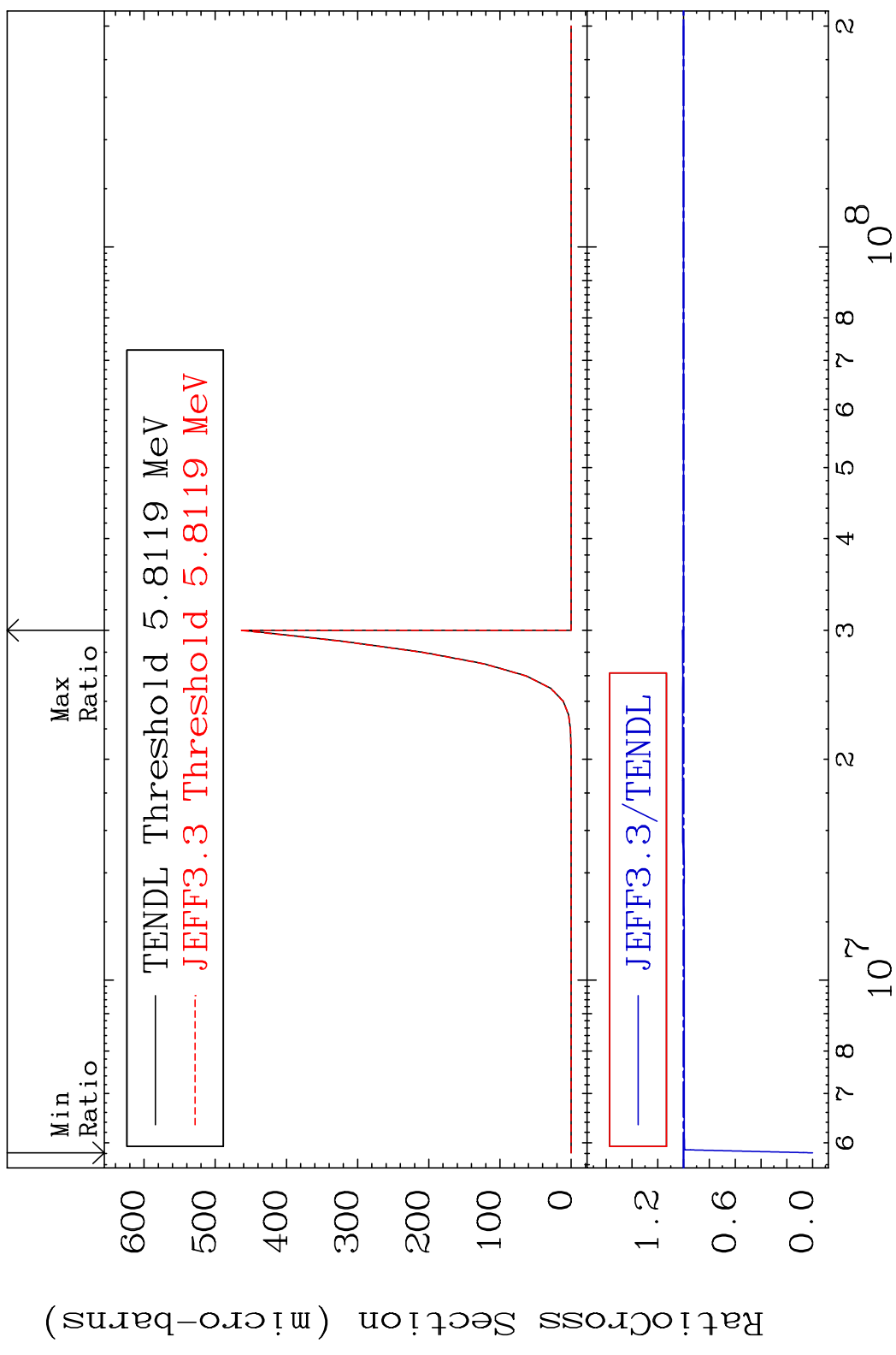
67-Ho-163

MAT 6719

(n, He-3)

67-Ho-163

Cross Section -100.0 To 0.974 %

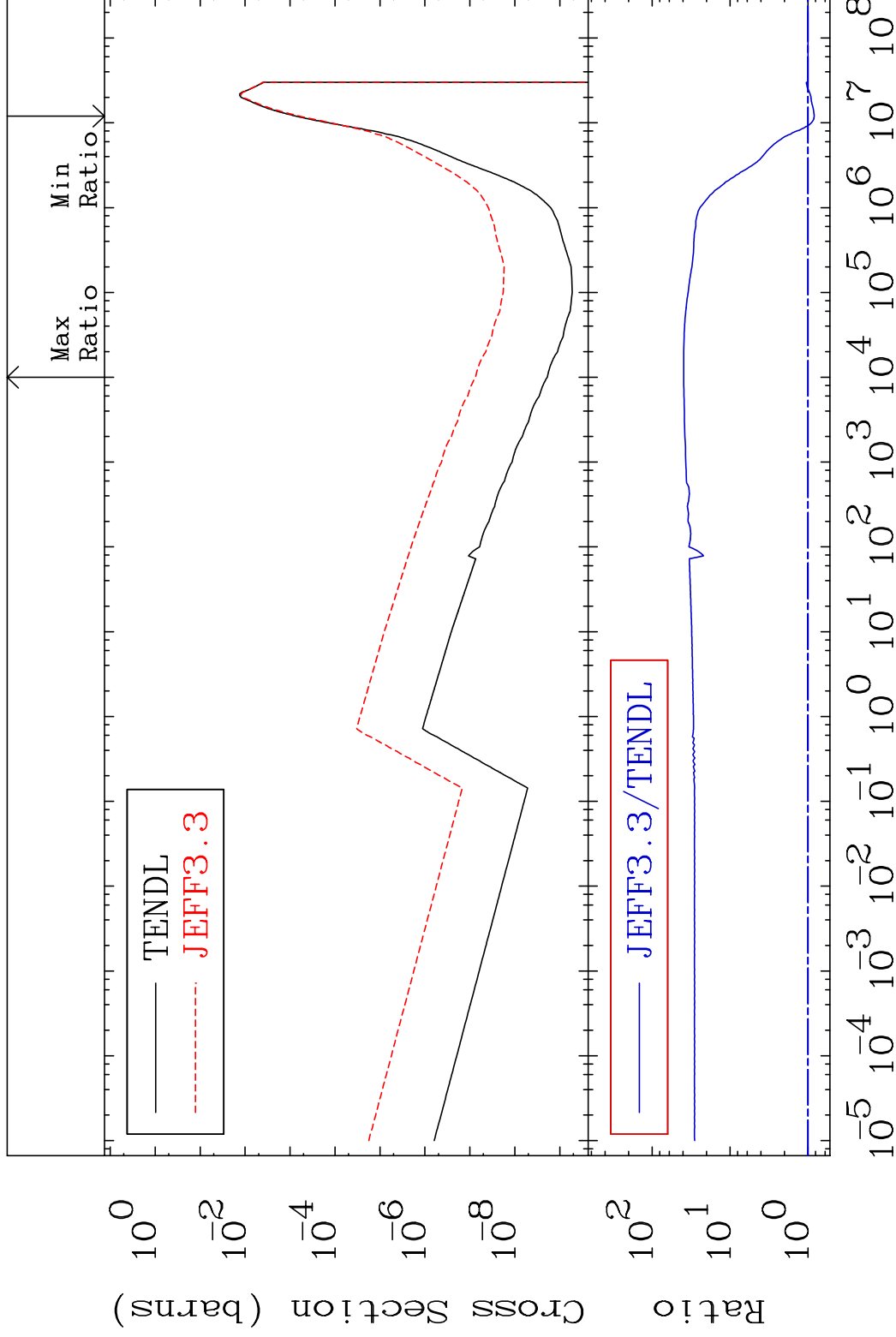


MAT 6719

(n,  $\alpha$ )

67-Ho-163

Cross Section -16.66 To 3832. %



48

Incident Energy (eV)

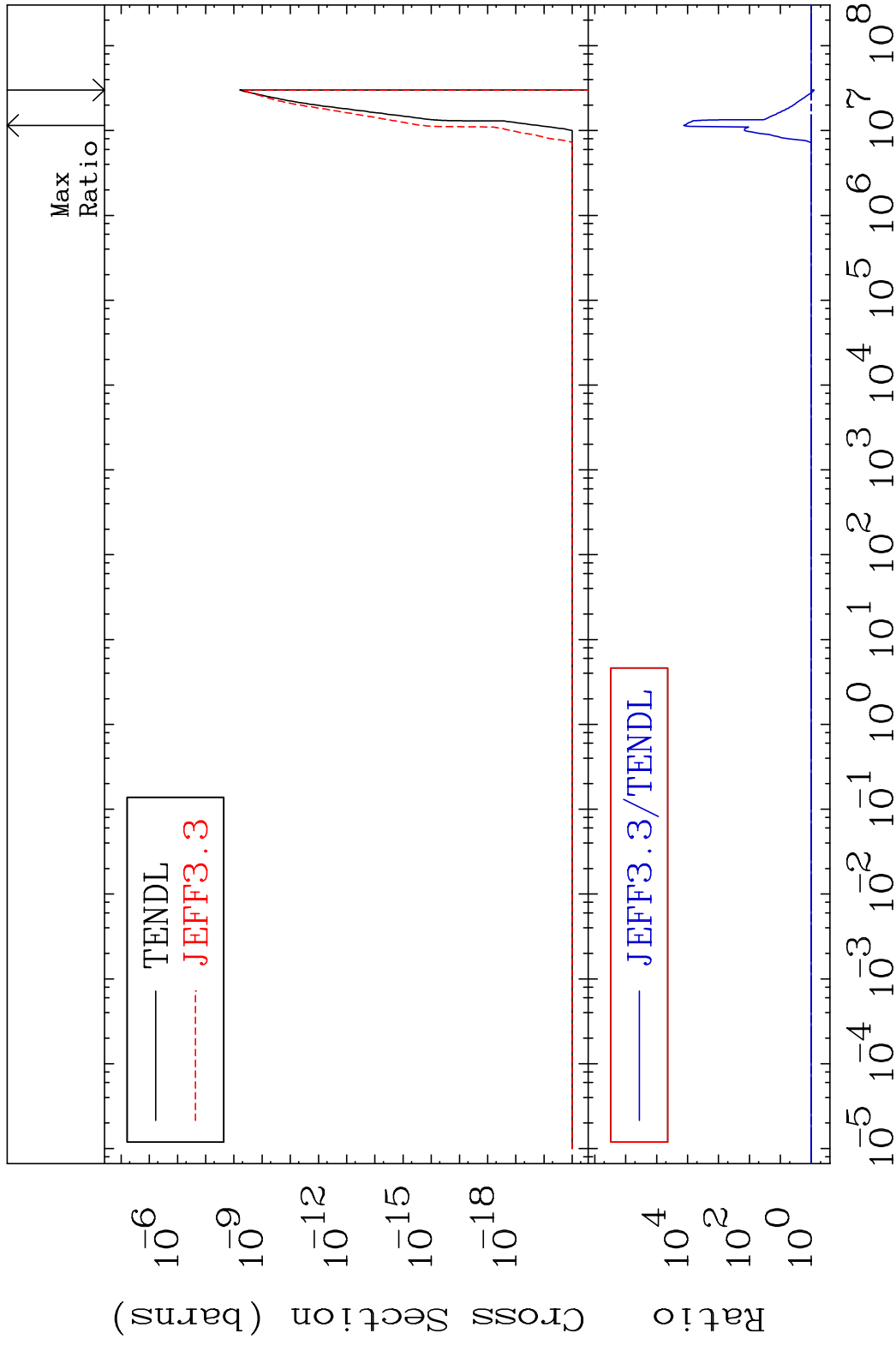
67-Ho-163

MAT 6719

(n,2α)

67-Ho-163

Cross Section -19.15 To 9999. %

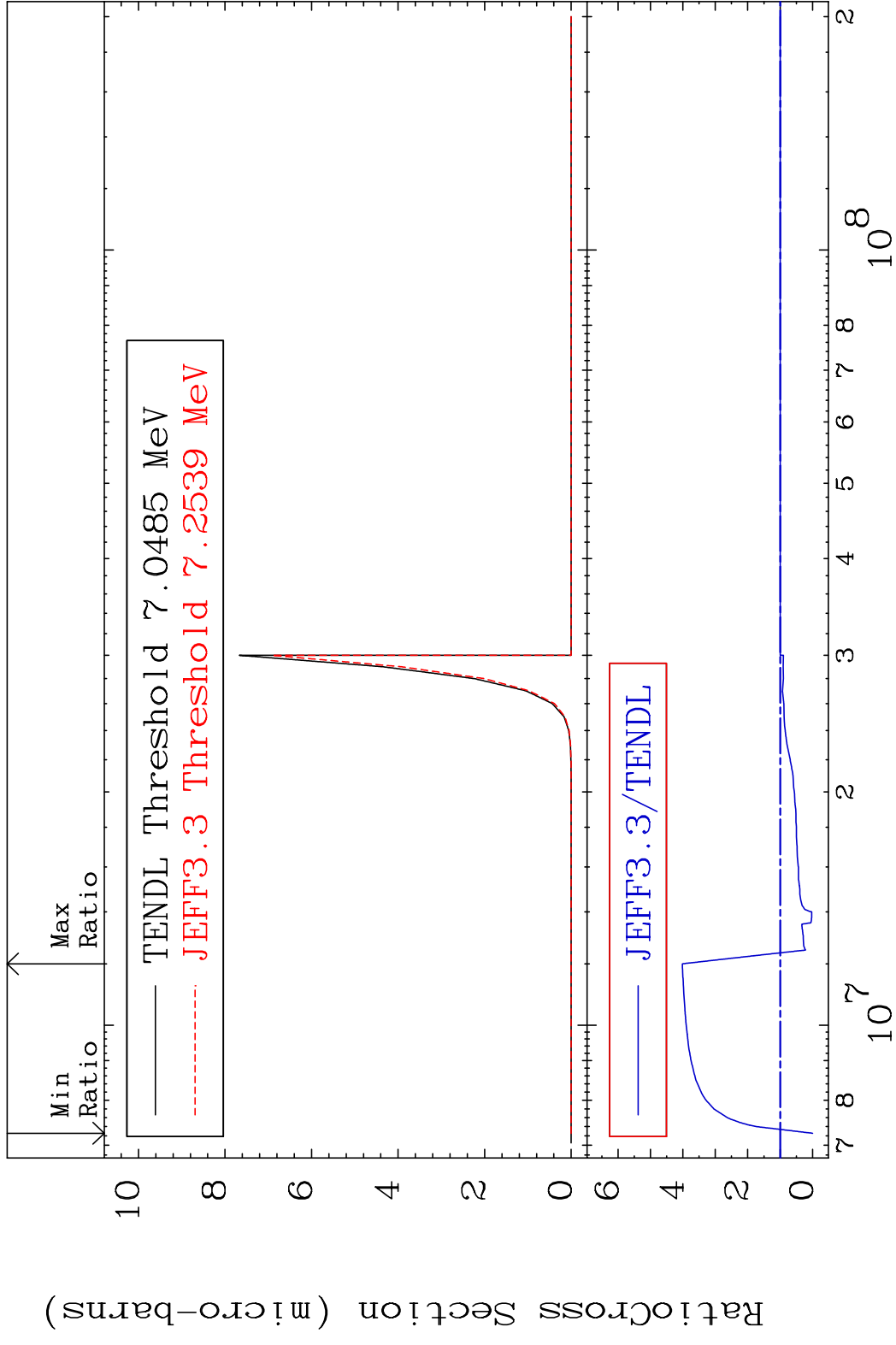


49

Incident Energy (eV)

67-Ho-163

MAT 6719 (n,2p) 67-Ho-163  
 Cross Section -100.0 To 301.5 %

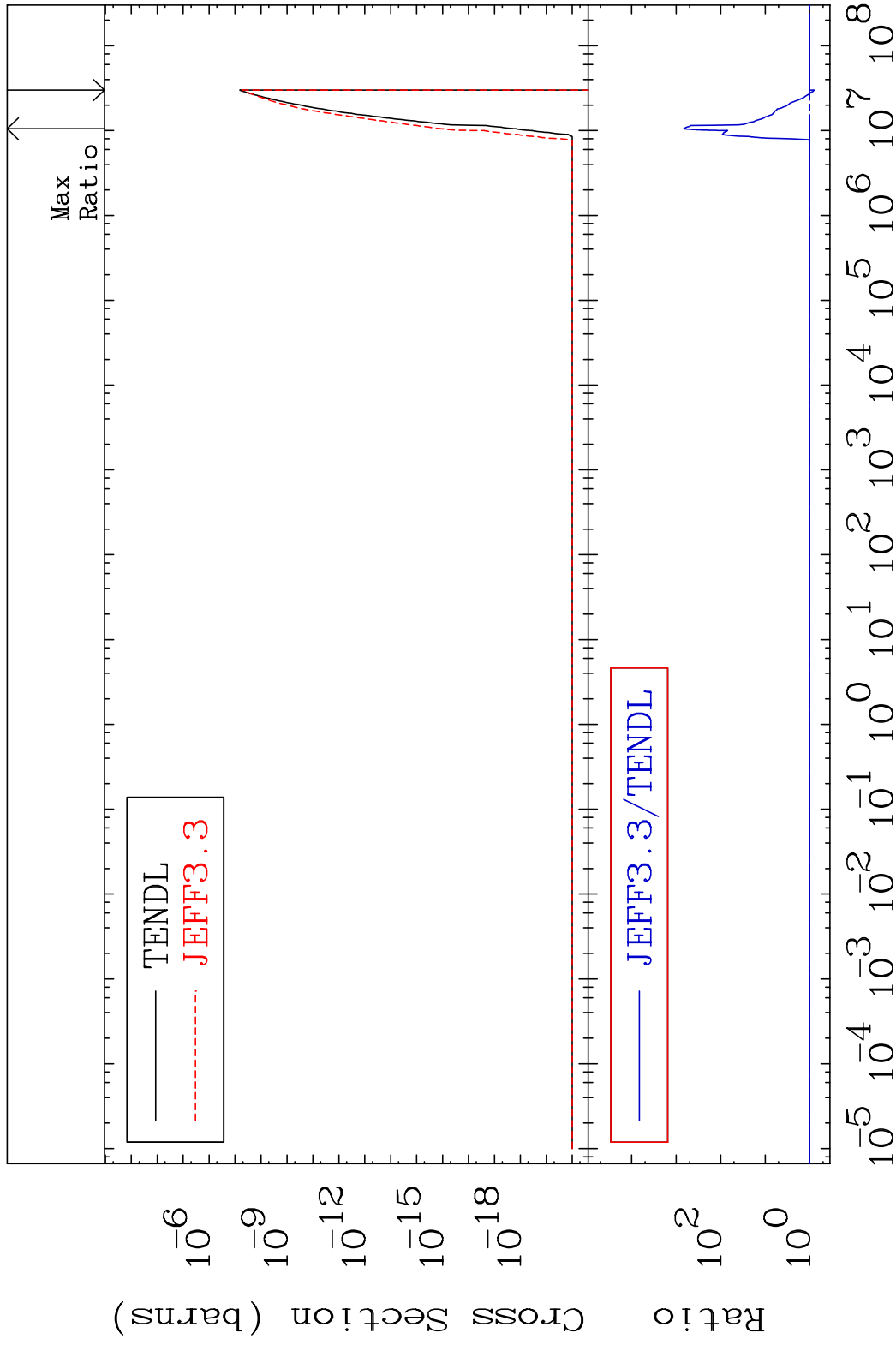


MAT 6719

(n,p)  $\alpha$

67-Ho-163

Cross Section -20.39 To 9999. %



51

Incident Energy (eV)

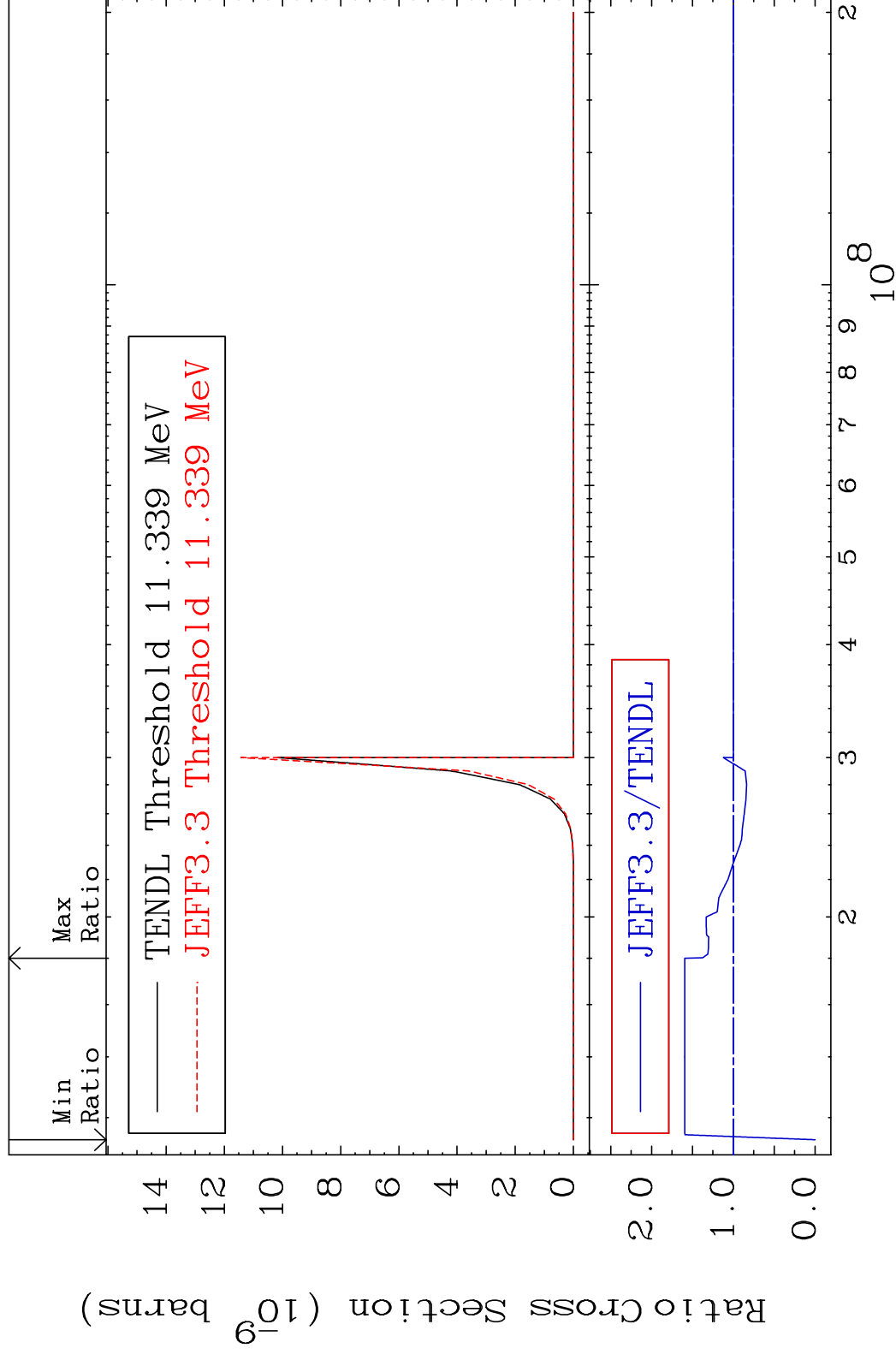
67-Ho-163

MAT 6719

(n,p) d

67-Ho-163

Cross Section -100.0 To 59.49 %

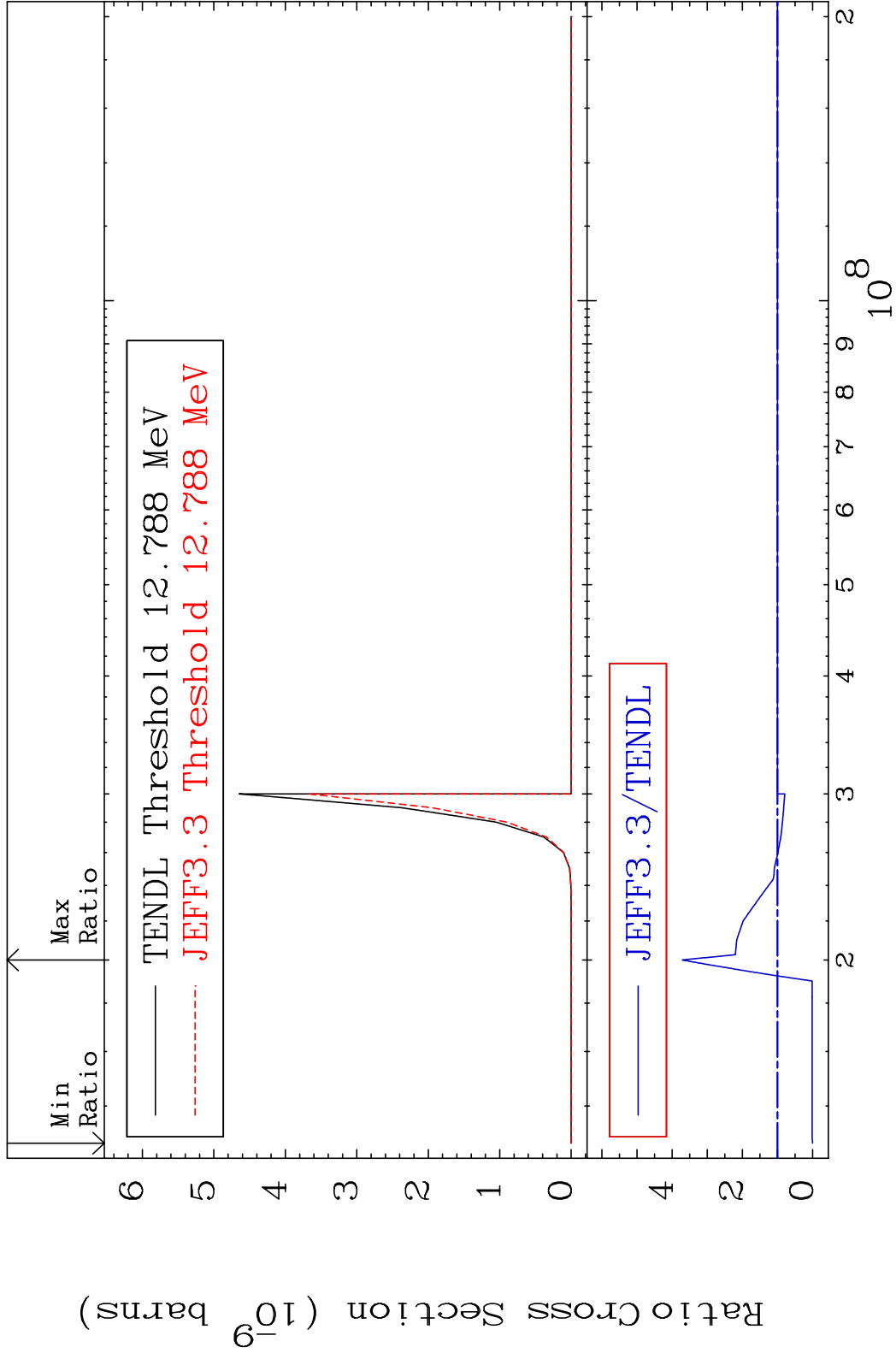


MAT 6719

(n,p) t

67-Ho-163

Cross Section -100.0 To 270.7 %

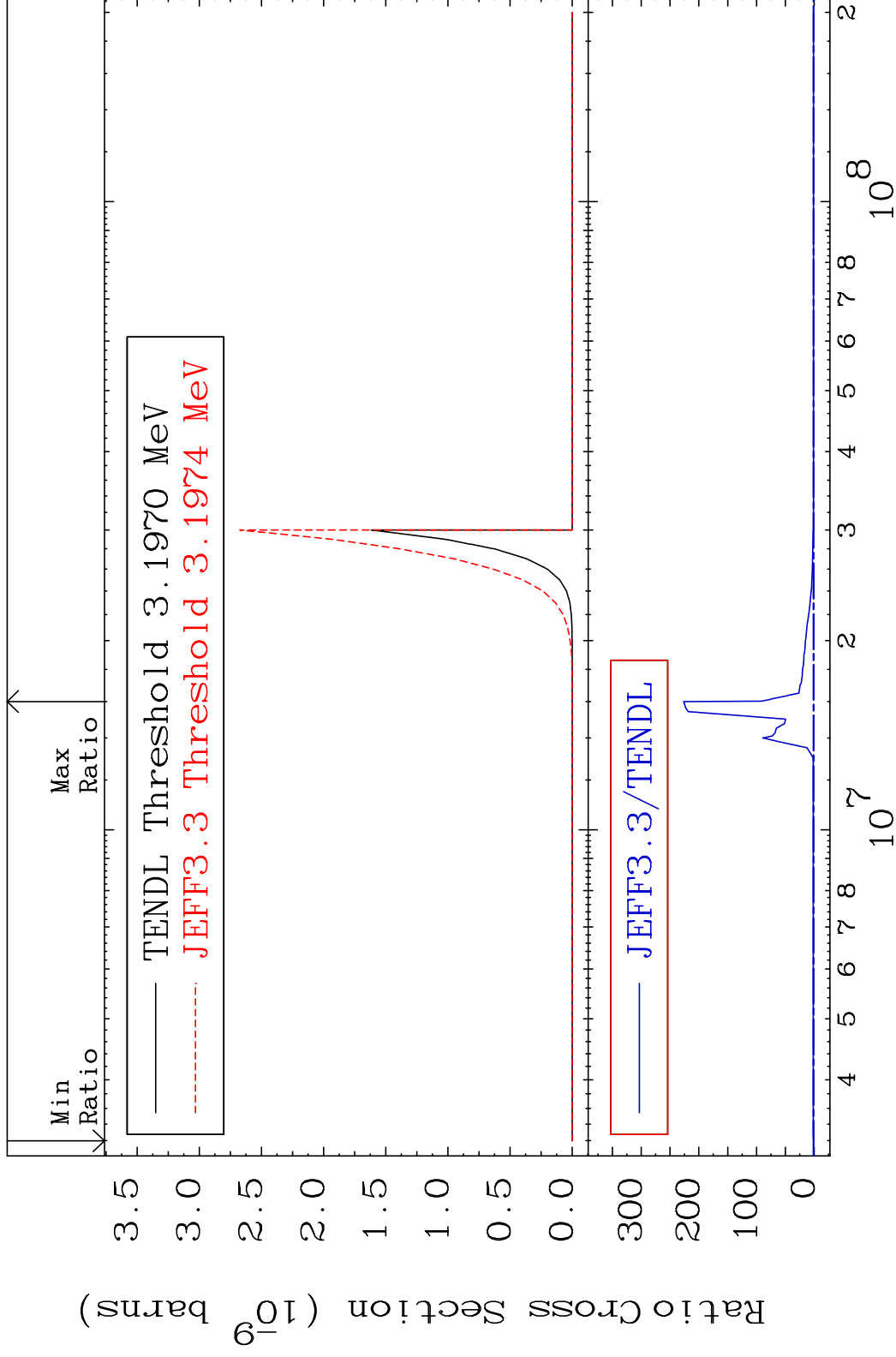


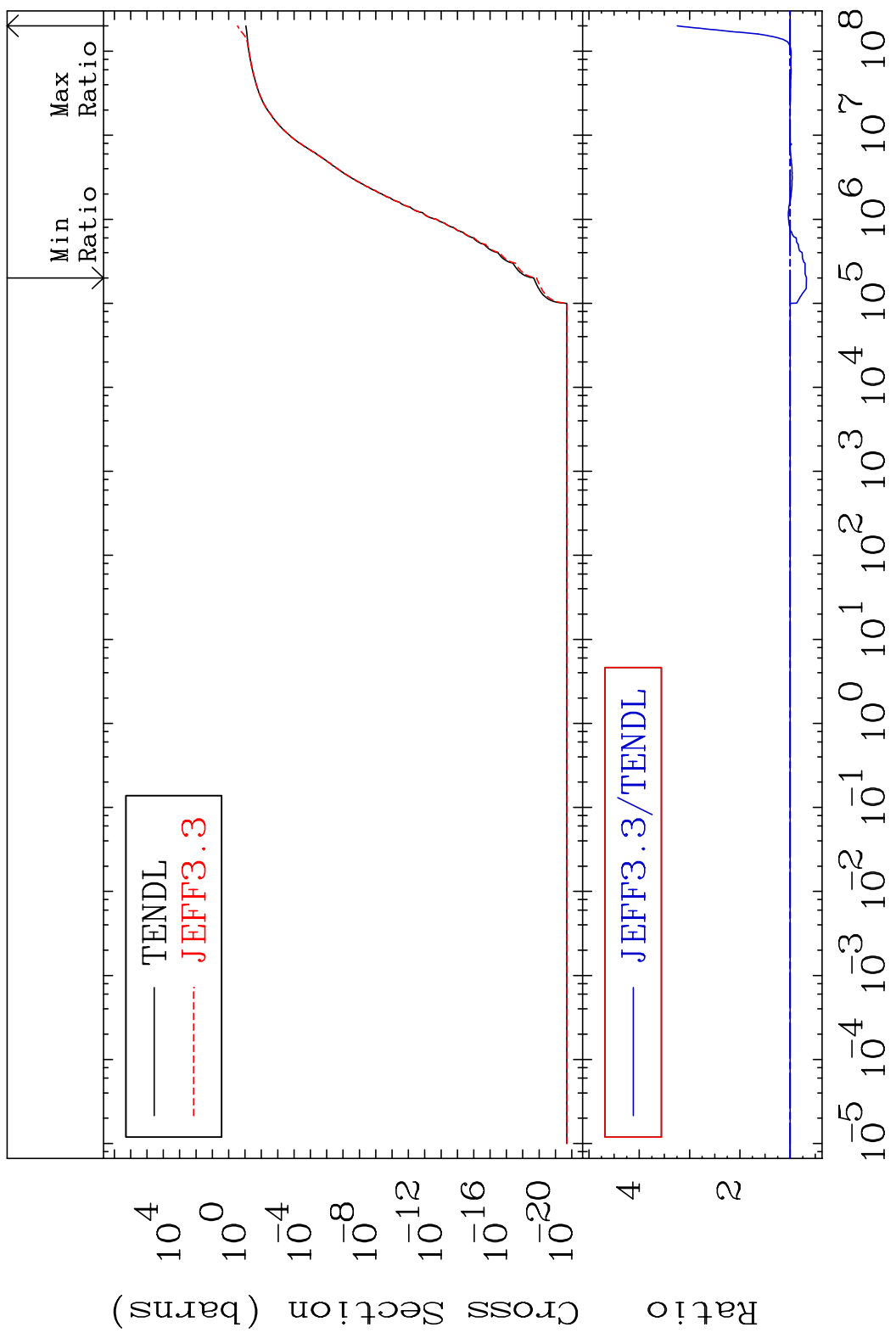
MAT 6719

(n,d)  $\alpha$

67-Ho-163

Cross Section -100.0 To 9999. %



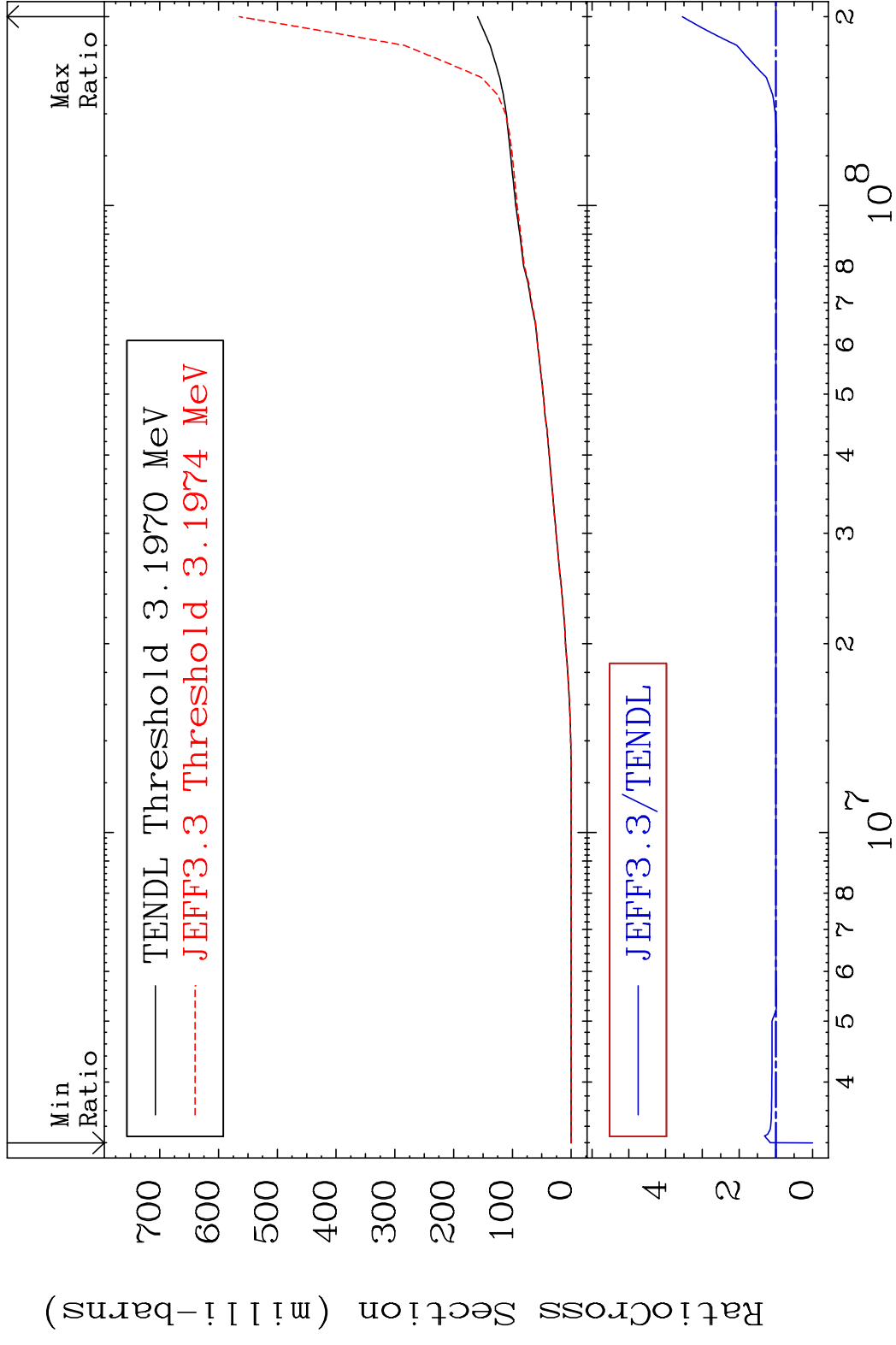


MAT 6719

Deuterium Production

67-Ho-163

Cross Section -100.0 To 254.4 %

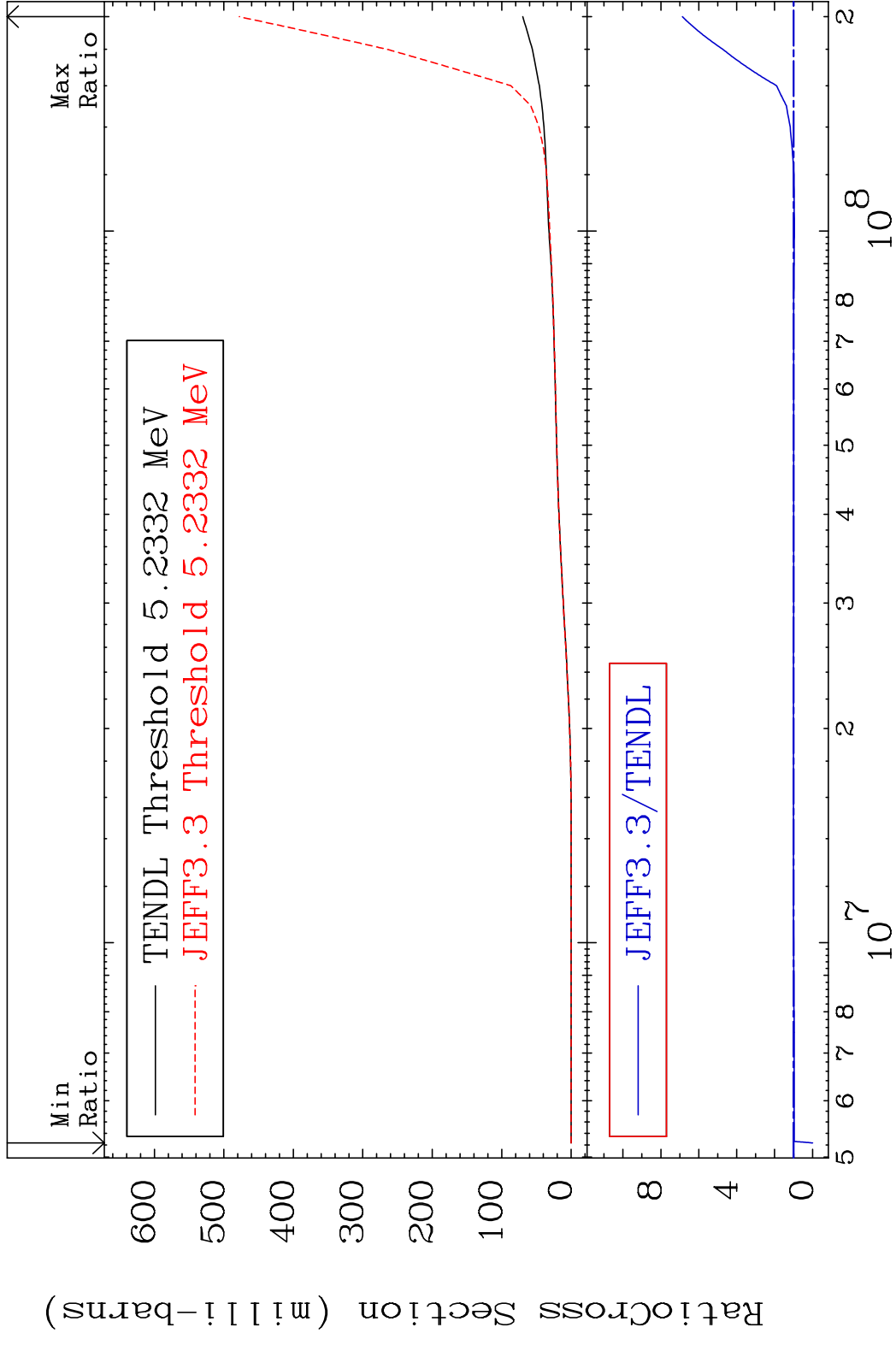


MAT 6719

Tritium Production

67-Ho-163

Cross Section -100.0 To 586.6 %

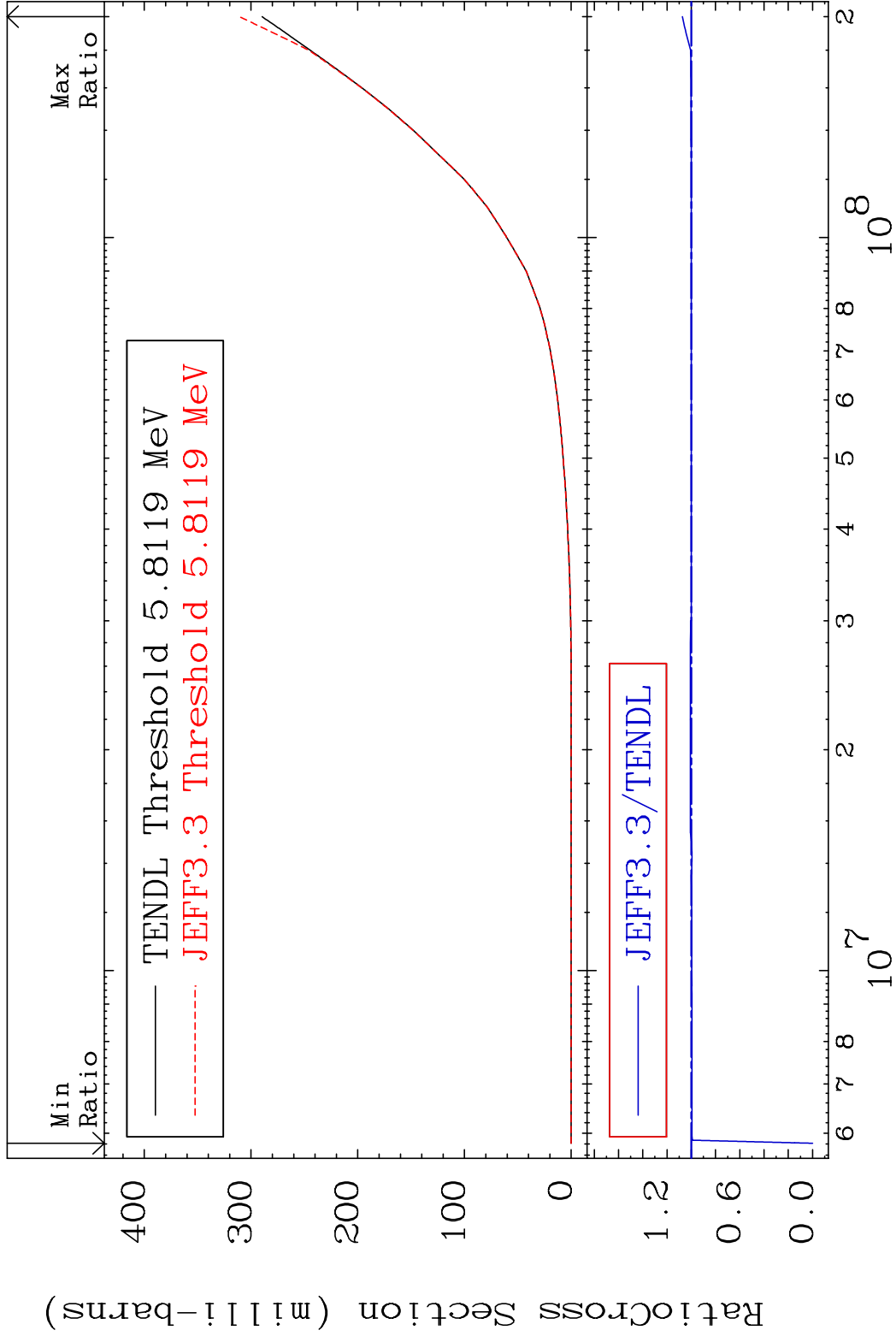


MAT 6719

He-3 Production

67-Ho-163

Cross Section -100.0 To 7.355 %



58

Incident Energy (eV)

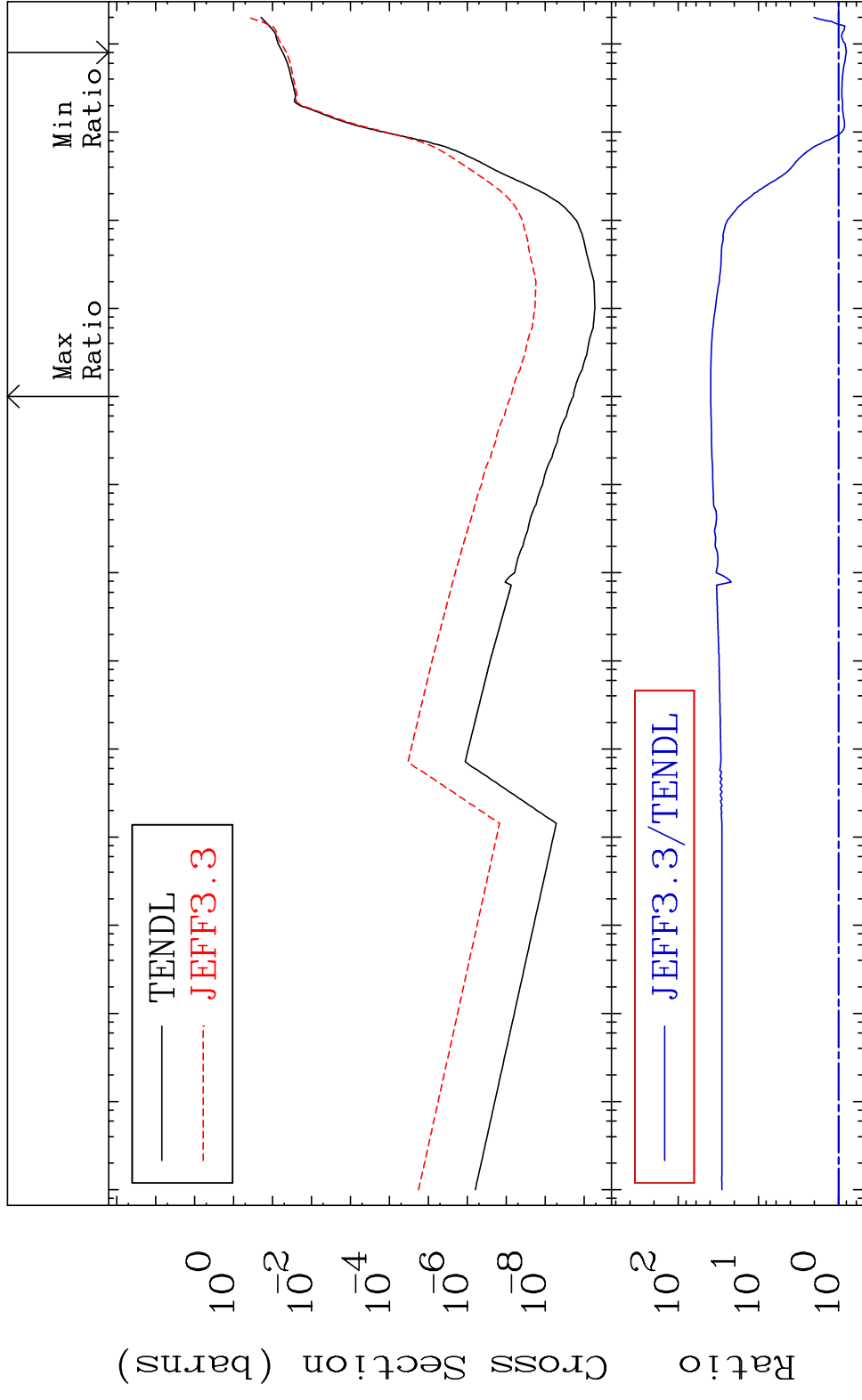
67-Ho-163

MAT 6719

He-4 Production

67-Ho-163

Cross Section -20.01 To 3832. %

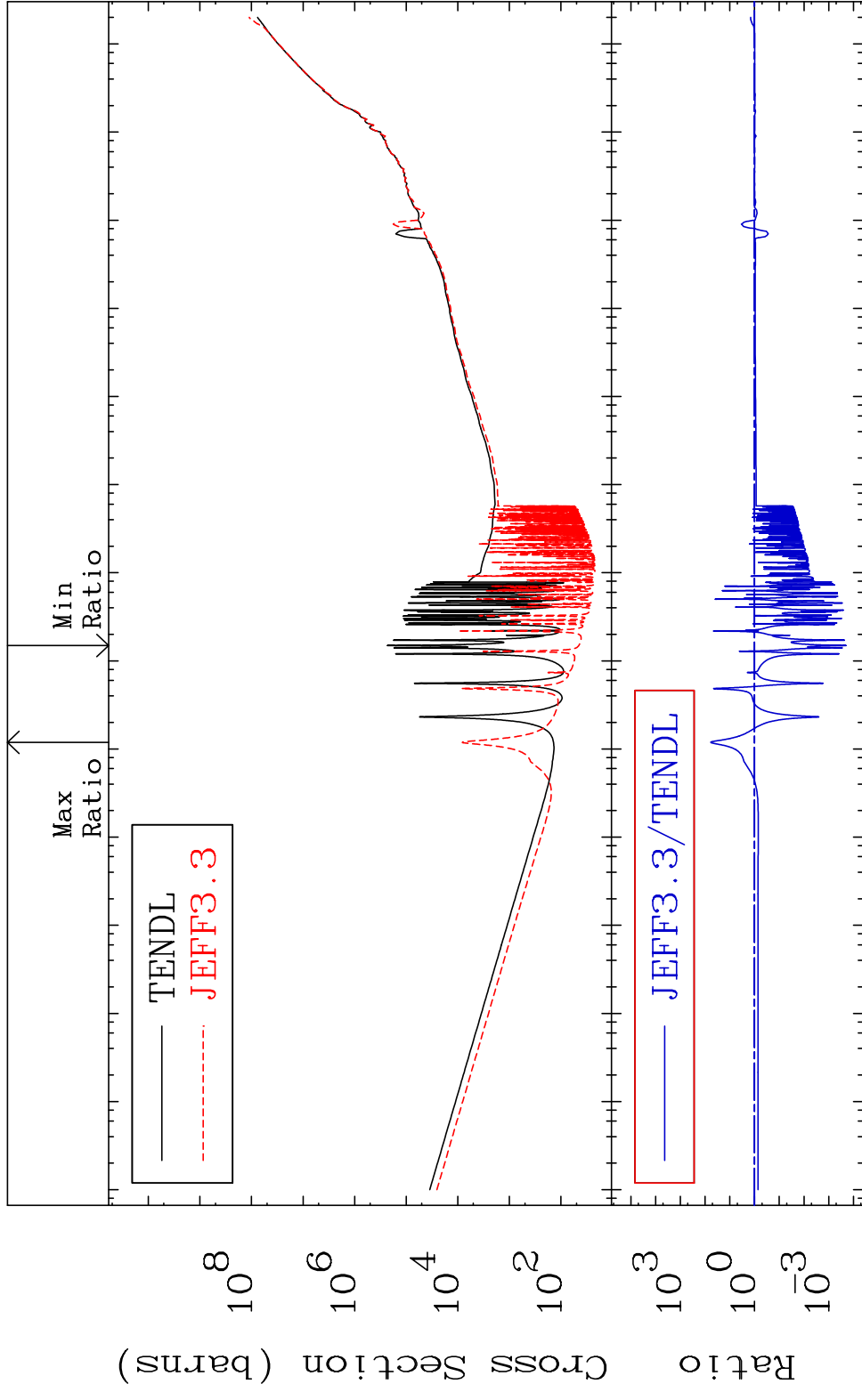


59

Incident Energy (eV)

67-Ho-163

MAT 6719 Kerma total (eV-barns) 67-Ho-163  
 Cross Section -99.98 To 5821. %



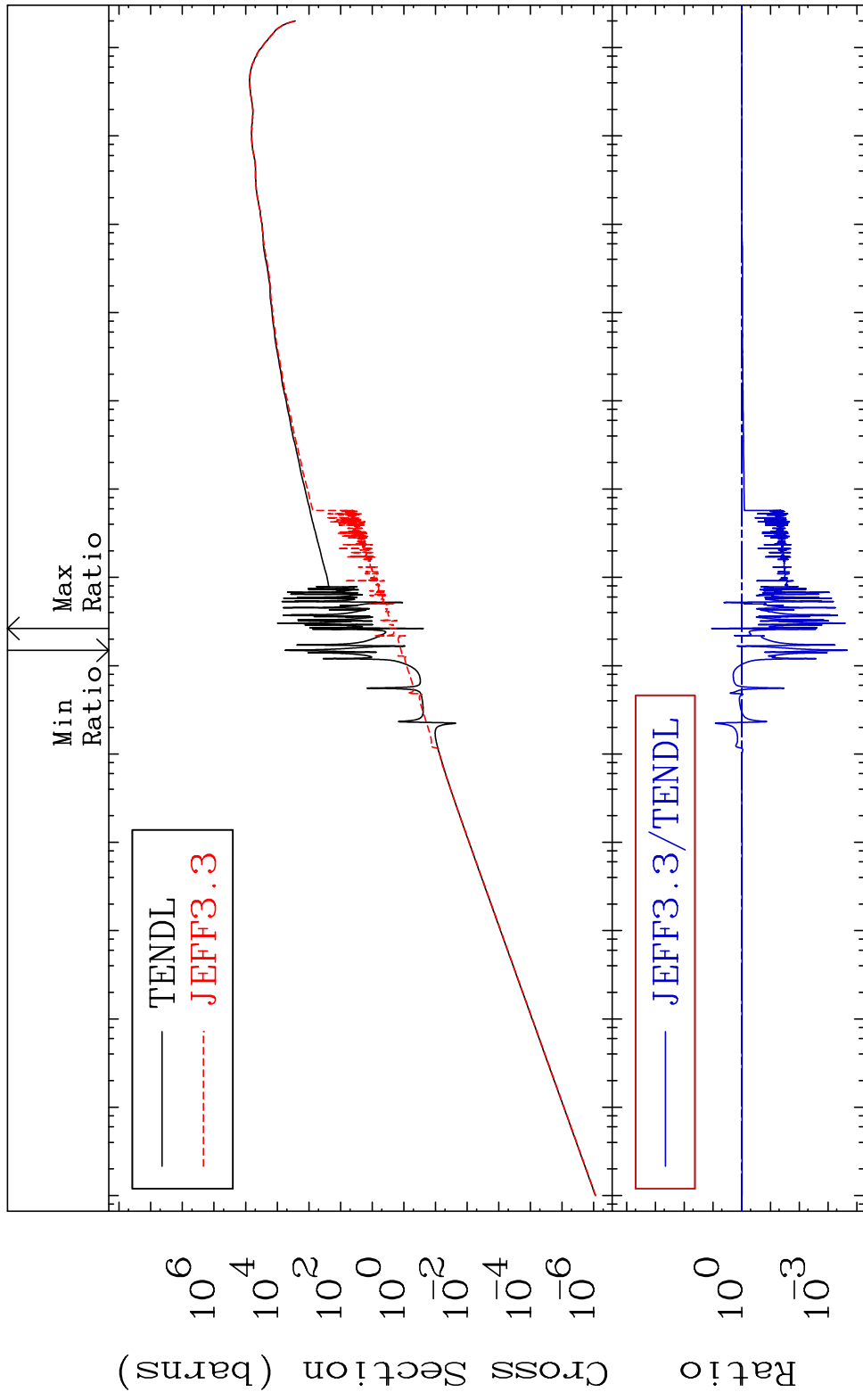
60 Incident Energy (eV) 67-Ho-163

MAT 6719

Kerma elastic

67-Ho-163

Cross Section -99.98 To 1028. %



Min Ratio

Max Ratio

Cross Section (barns)

Ratio

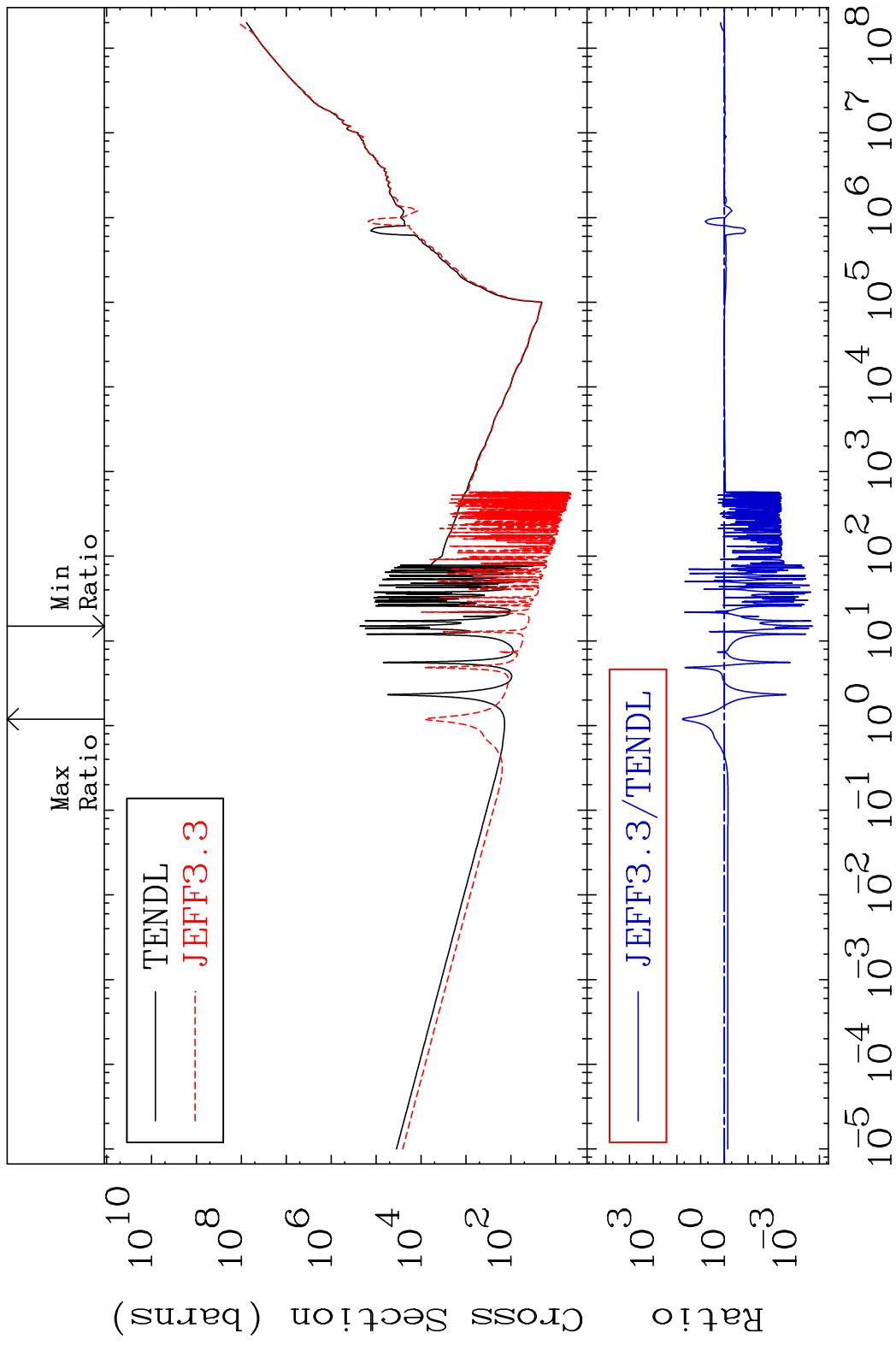
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

61

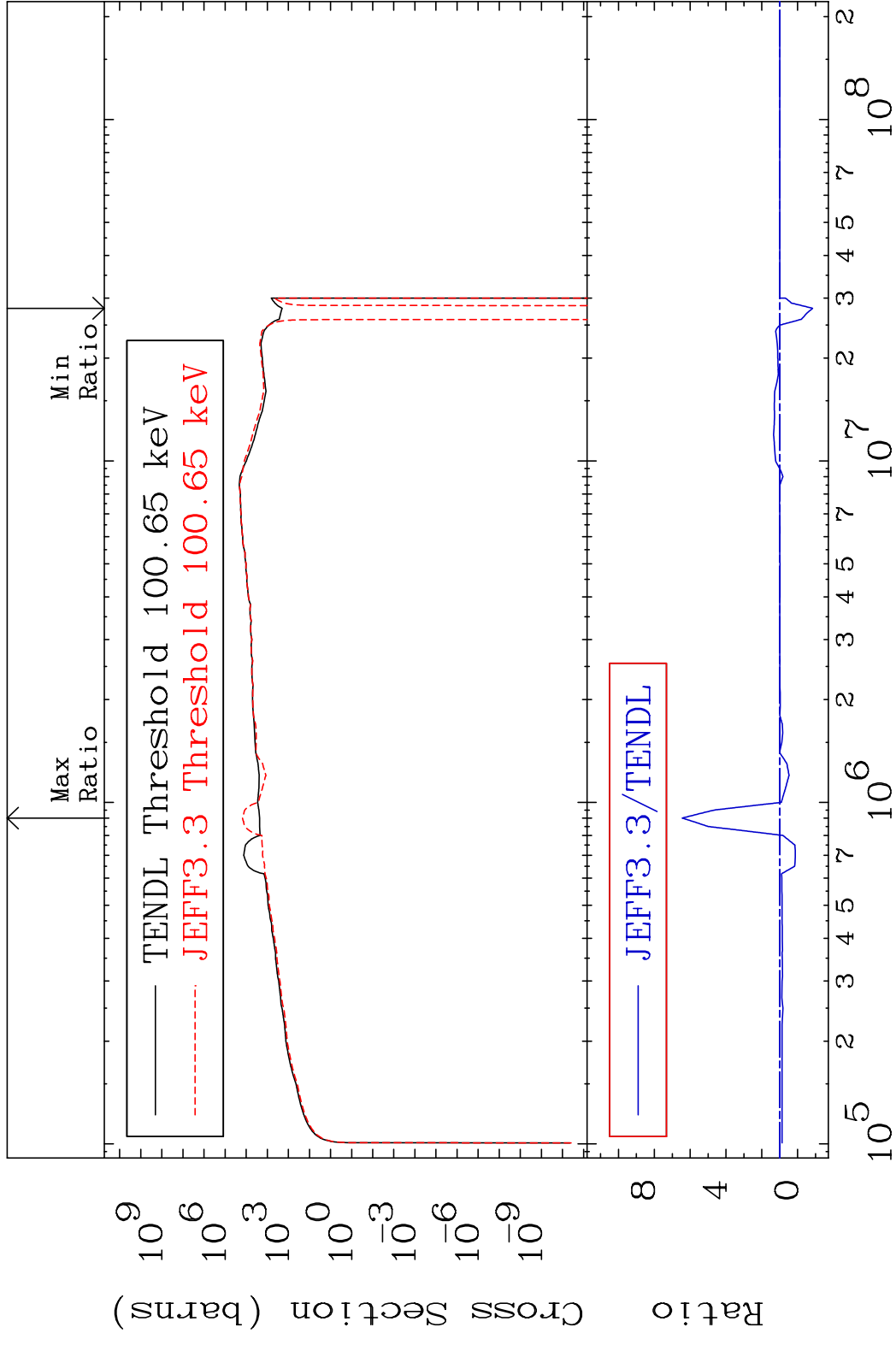
Incident Energy (eV)

67-Ho-163

MAT 6719 Kerma non-elastic (all but mt2) 67-Ho-163  
 Cross Section -99.98 To 5824. %

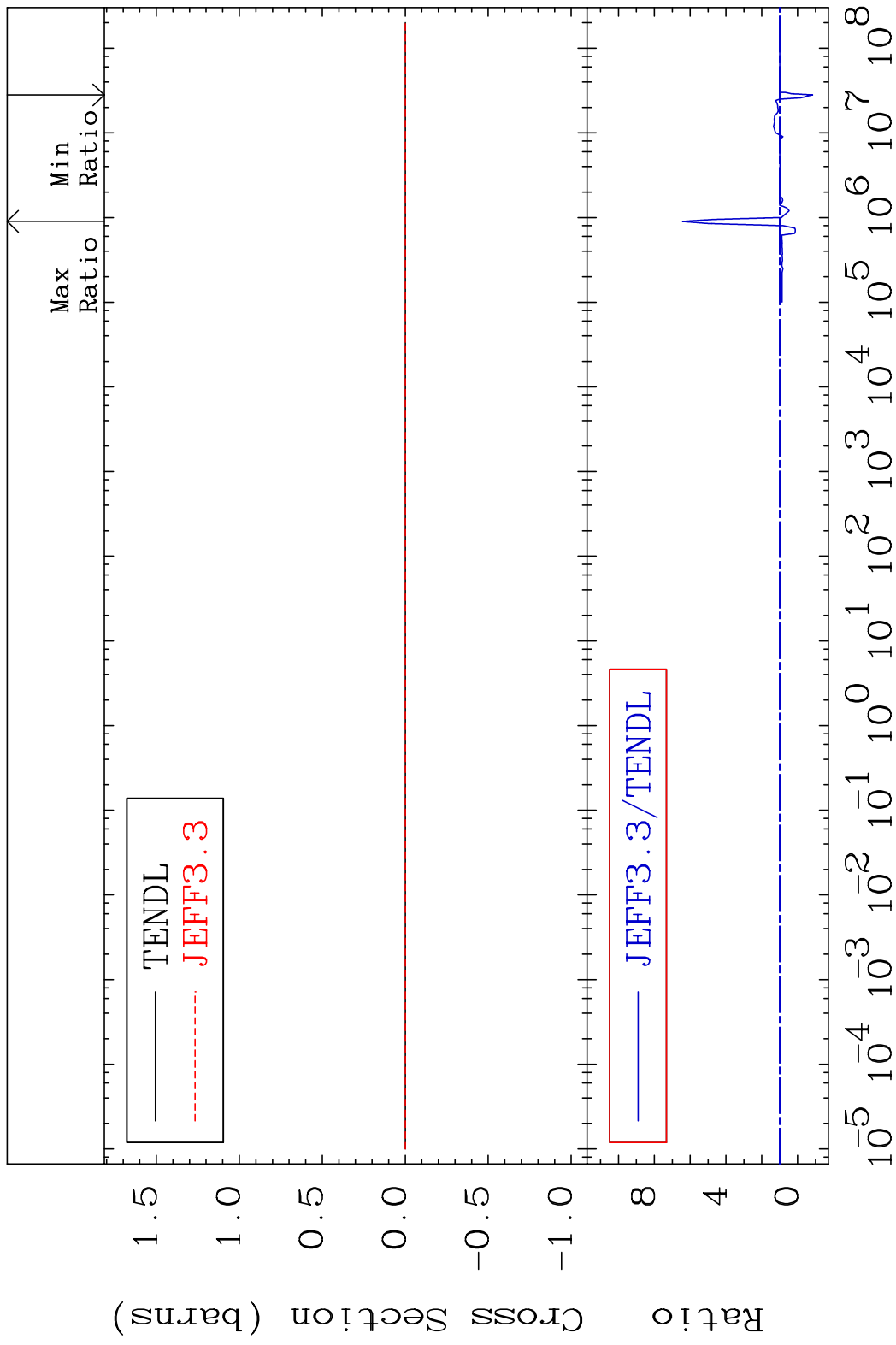


MAT 6719 Kerma inelastic (mt51-91) 67-Ho-163  
 Cross Section -183.1 To 543.7 %



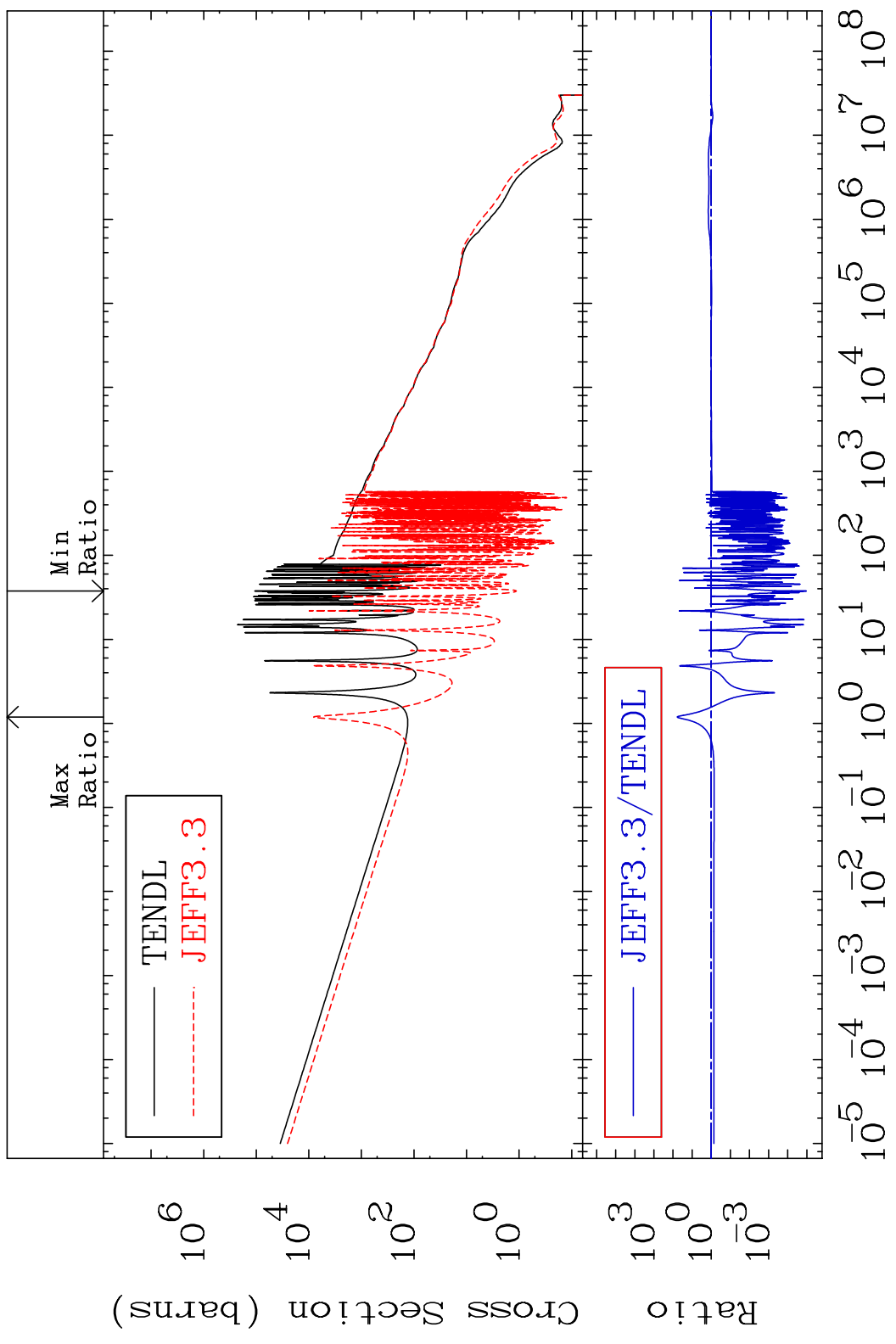
63 Incident Energy (eV) 67-Ho-163

MAT 6719 Kerma fission (mt18 or mt19-20-21-38) 67-Ho-163  
 Cross Section -183.1 To 543.7 %



MAT 6719

Kerma capture (mt102) 67-Ho-163  
Cross Section -100.0 To 5947. %



65

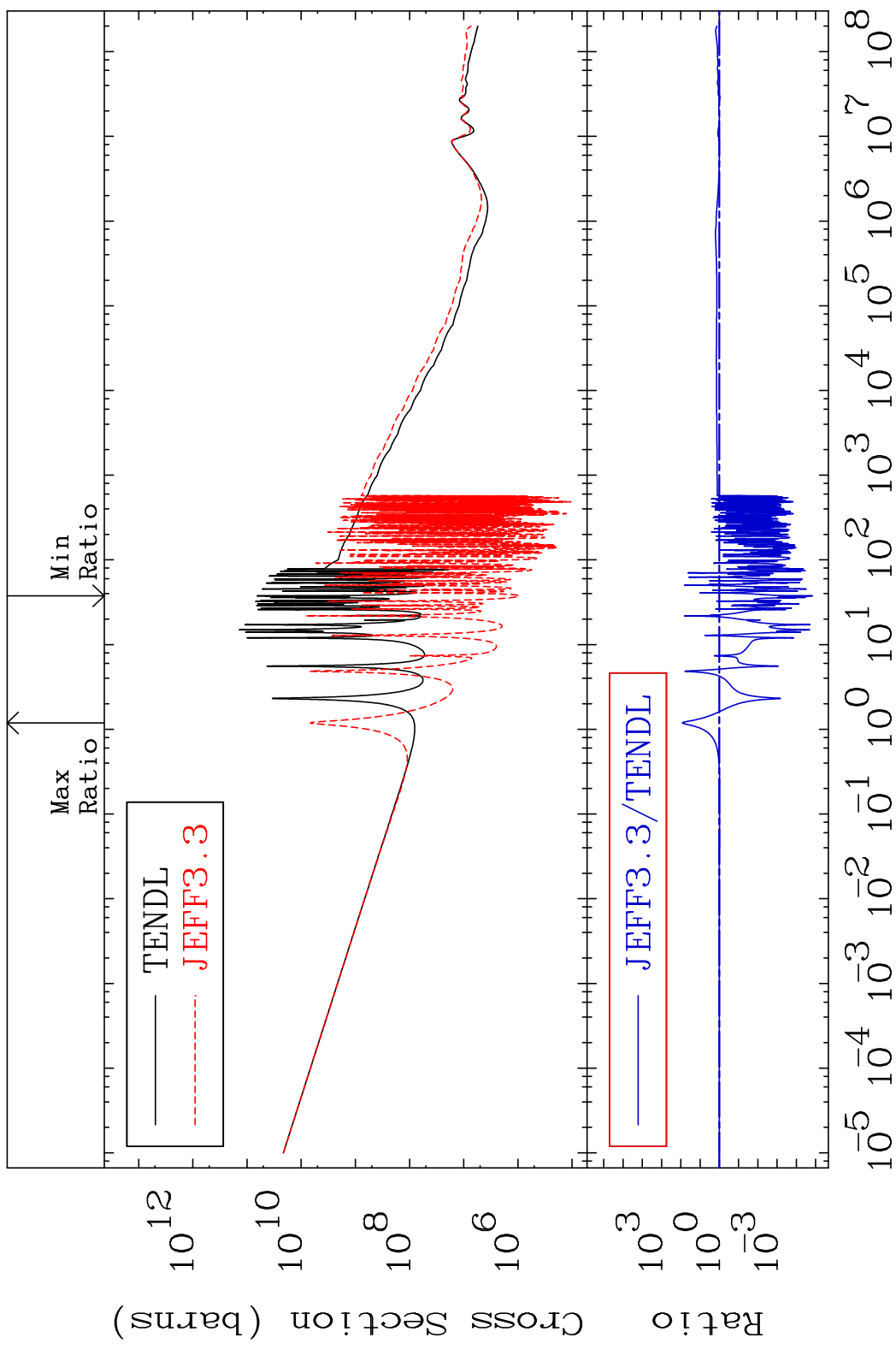
Incident Energy (eV) 67-Ho-163

MAT 6719

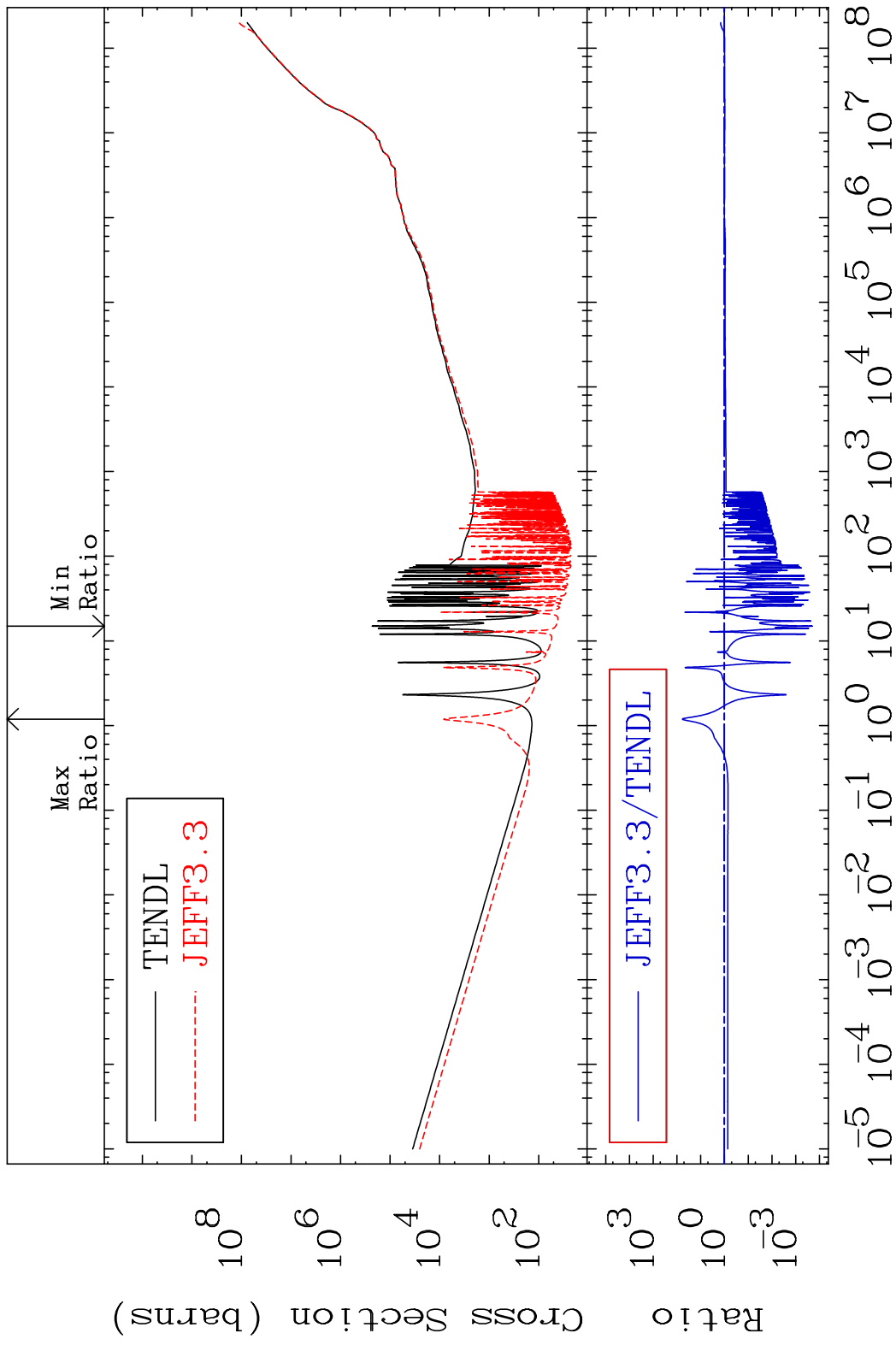
Total photon (eV-barns)

67-Ho-163

Cross Section -100.0 To 8232. %



MAT 6719 Total kinematic kerma (high limit) 67-Ho-163  
 Cross Section -99.98 To 5820. %

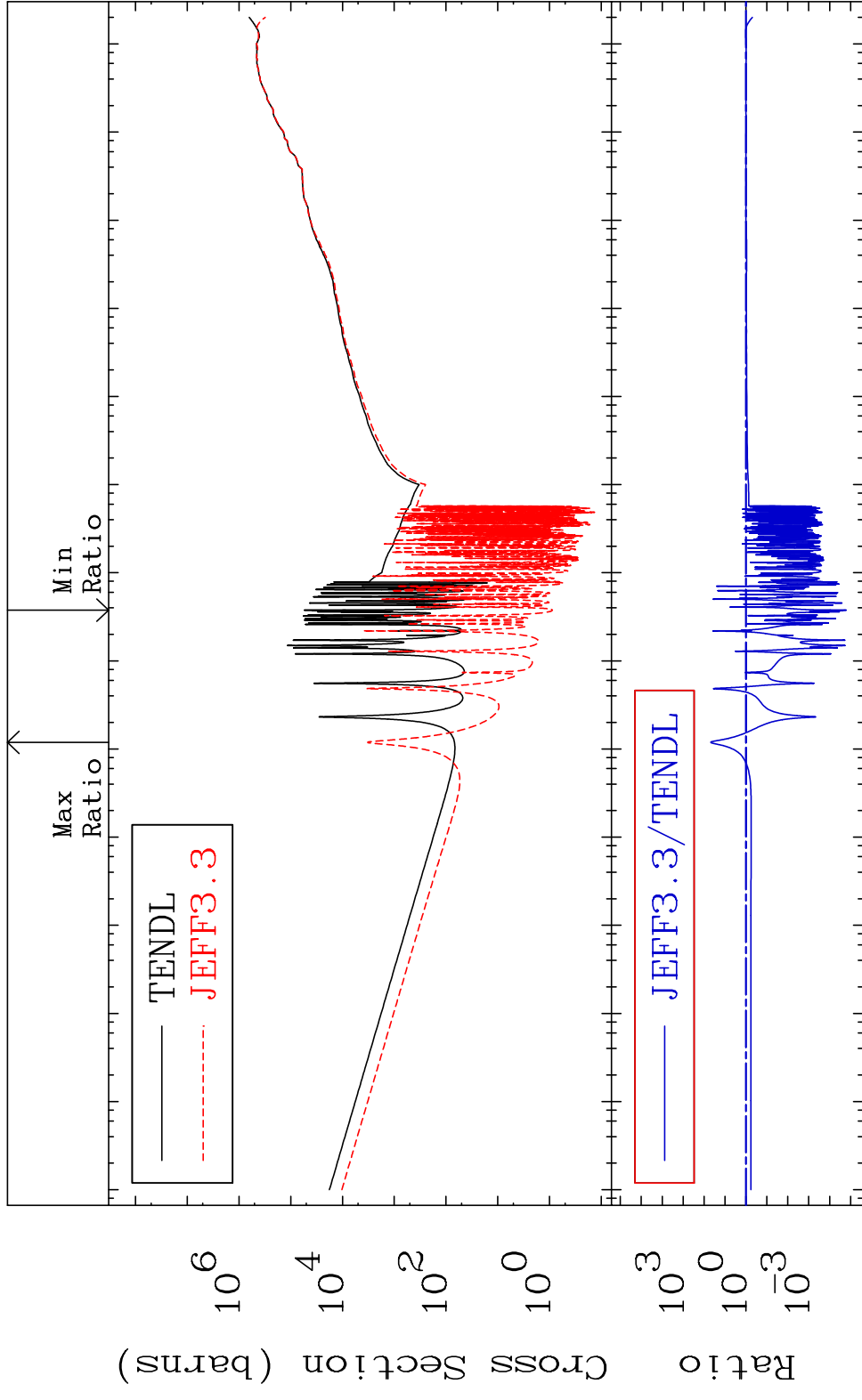


MAT 6719

Dpa total (eV-barns)

67-Ho-163

Cross Section -100.0 To 4702. %



68

Incident Energy (eV)

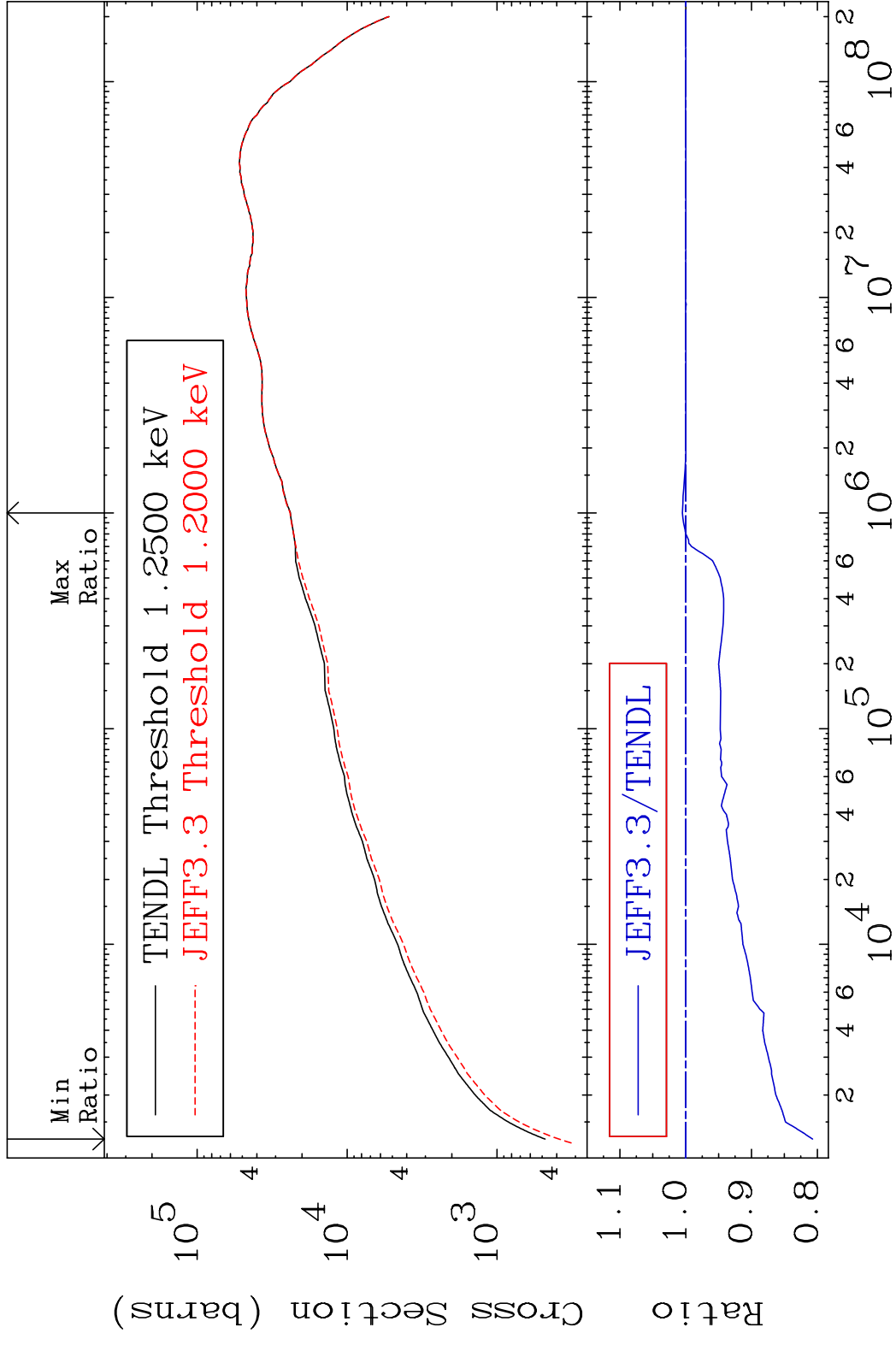
67-Ho-163

MAT 6719

Dpa elastic (mt2)

67-Ho-163

Cross Section -19.28 To 0.508 %



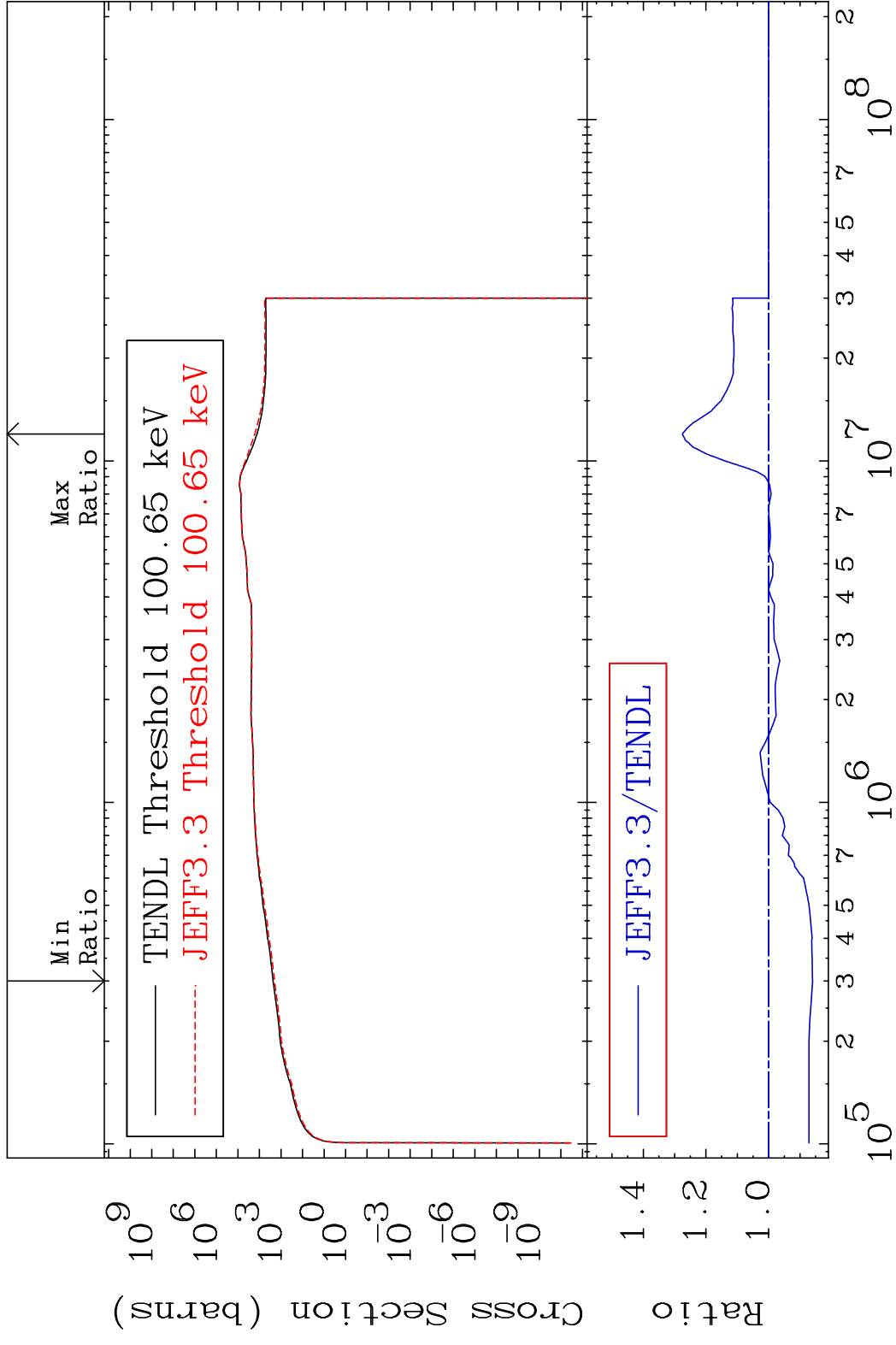
69

Incident Energy (eV)

67-Ho-163

MAT 6719

Dpa inelastic (mt51-91) 67-Ho-163  
Cross Section -14.02 To 27.54 %

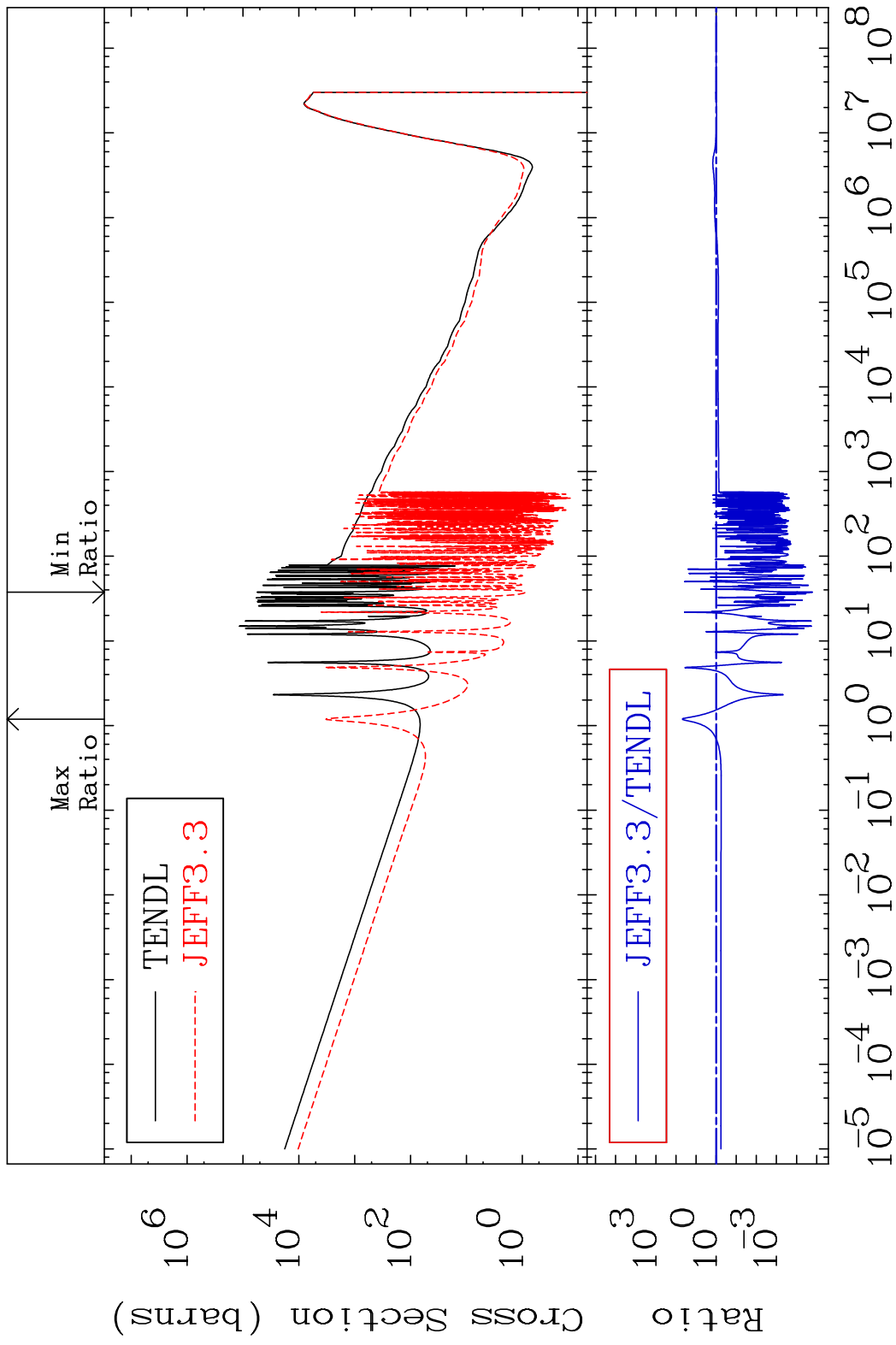


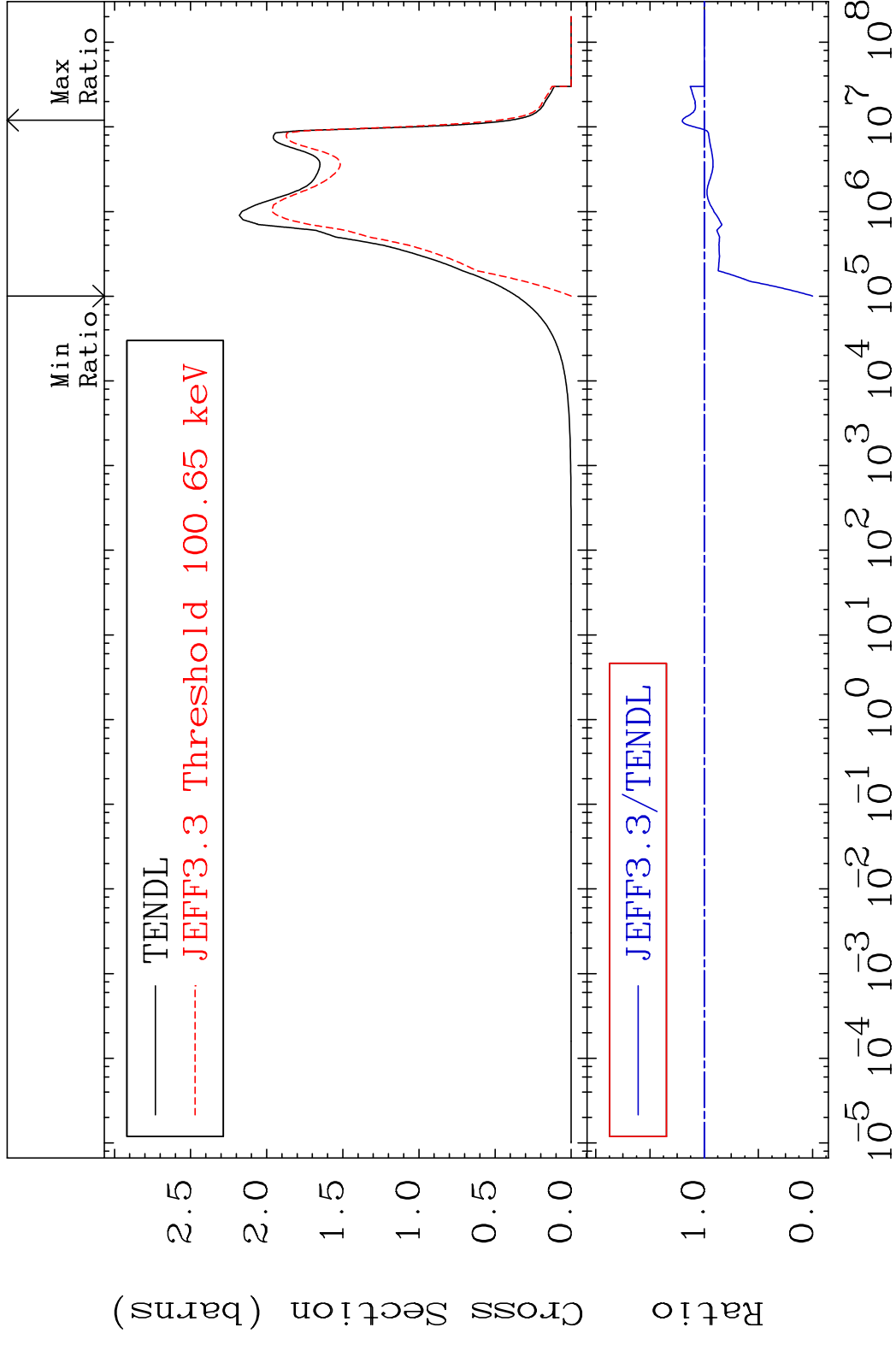
70

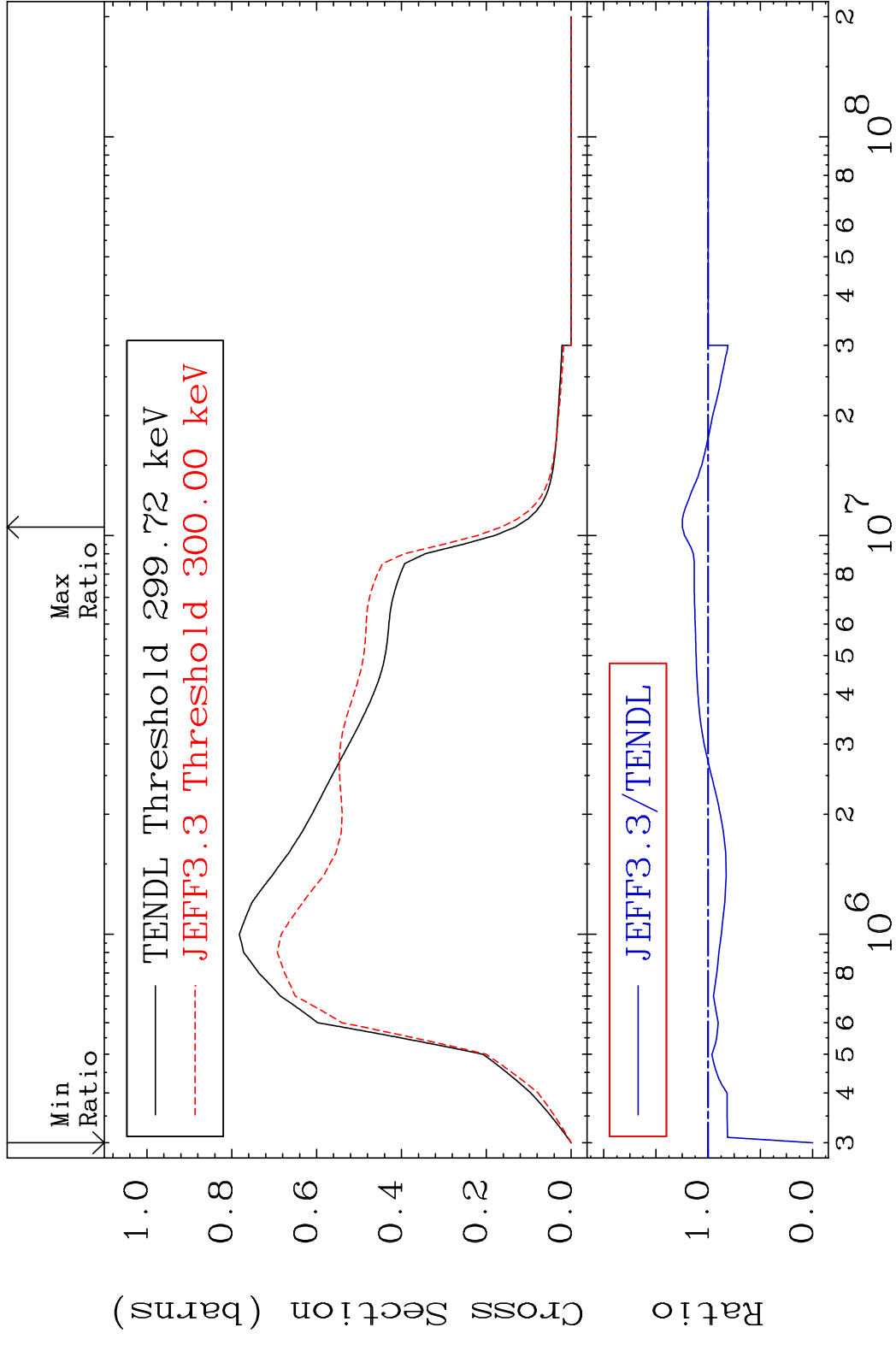
Incident Energy (eV)

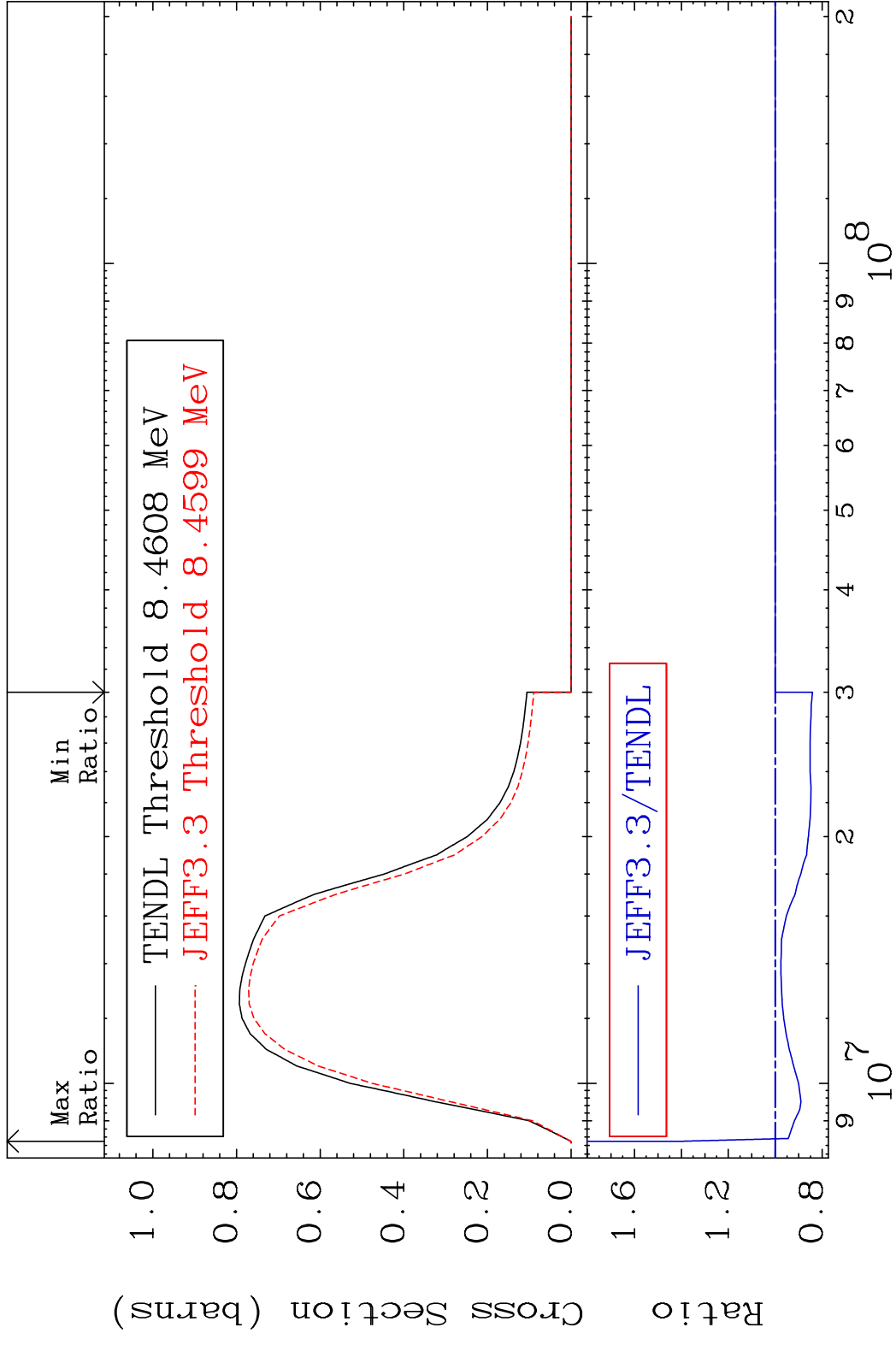
67-Ho-163

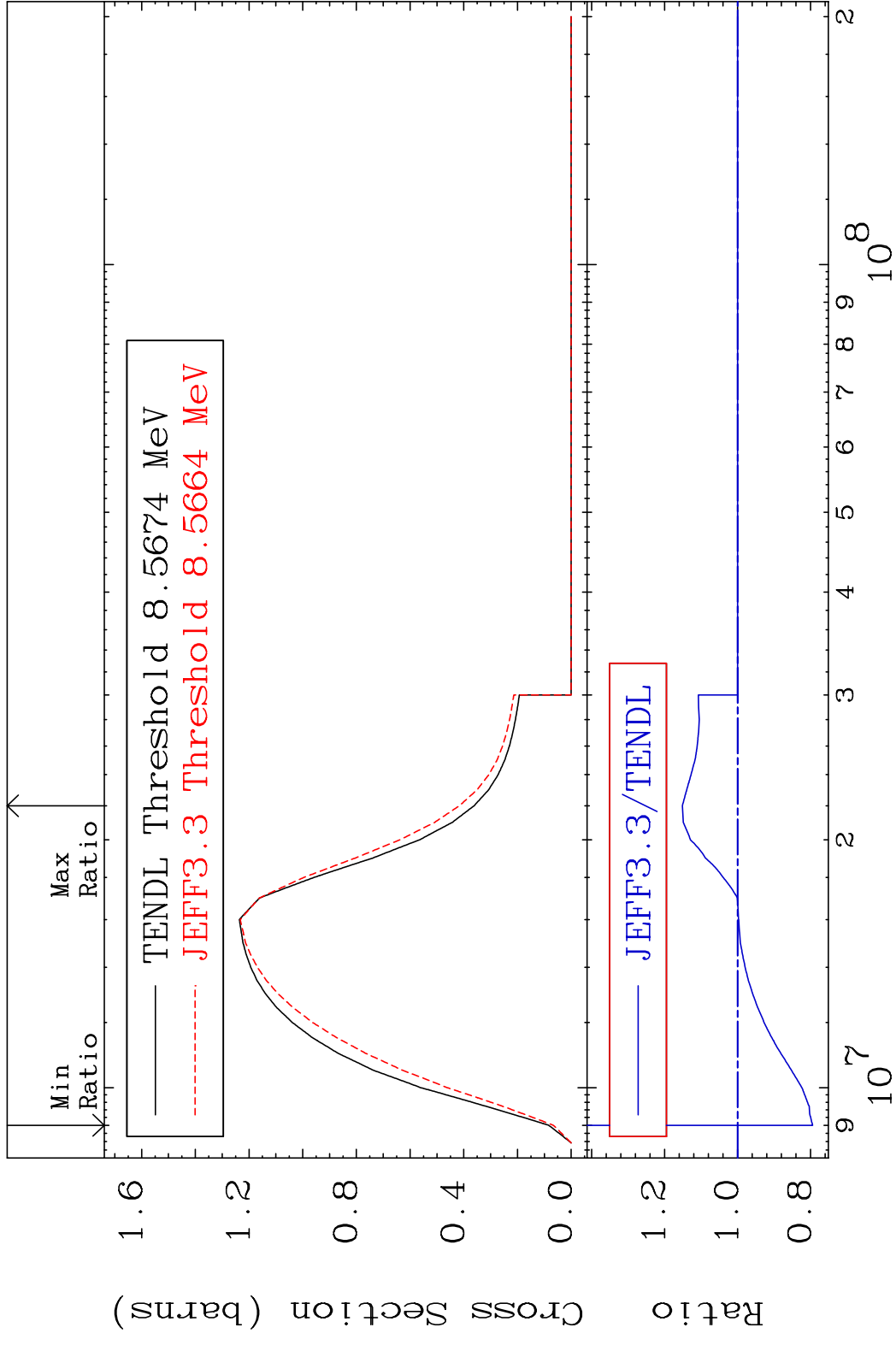
MAT 6719 Dpa disappearance (mt102 -120) 67-Ho-163  
 Cross Section -100.0 To 4702. %

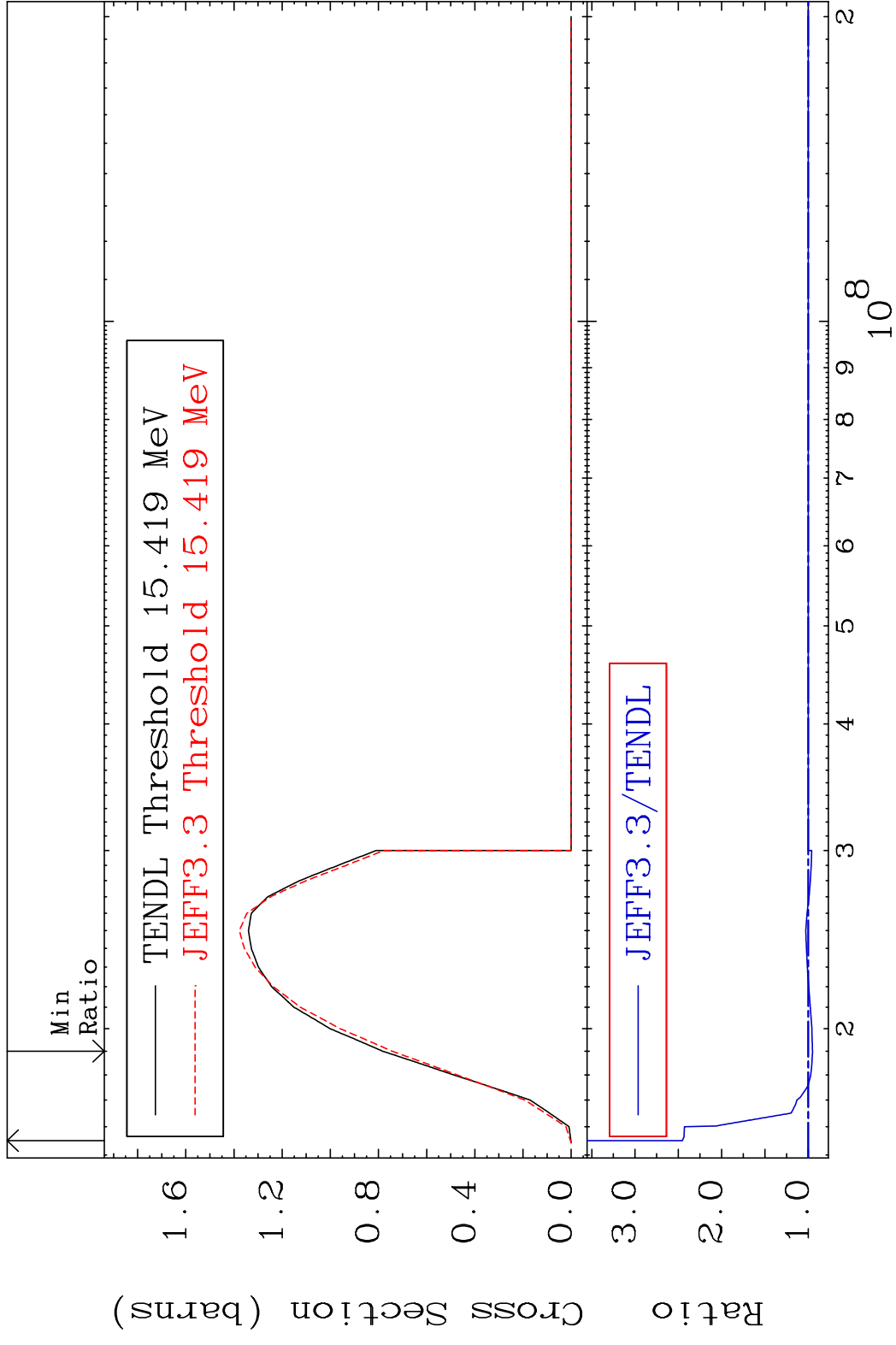


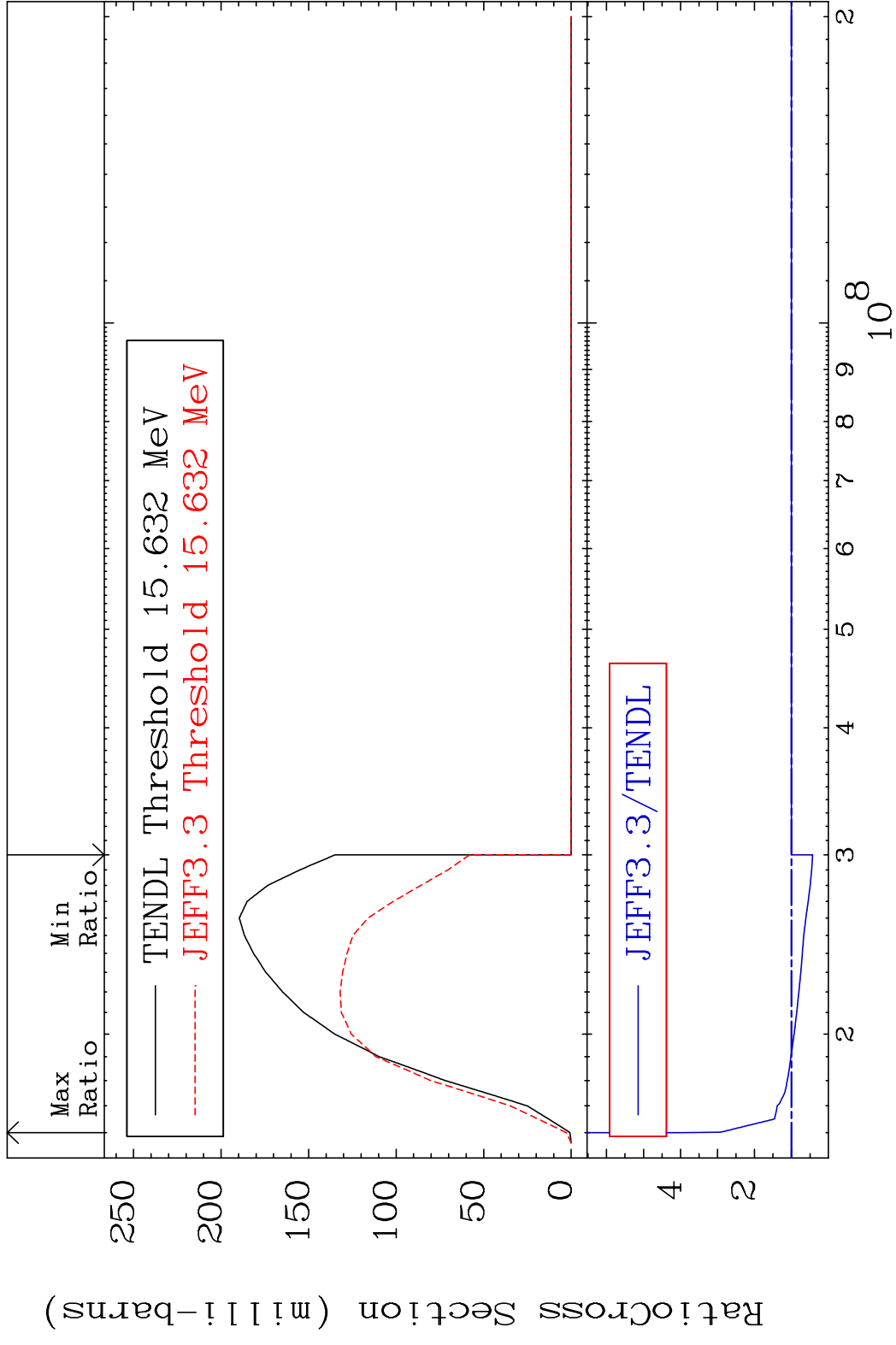




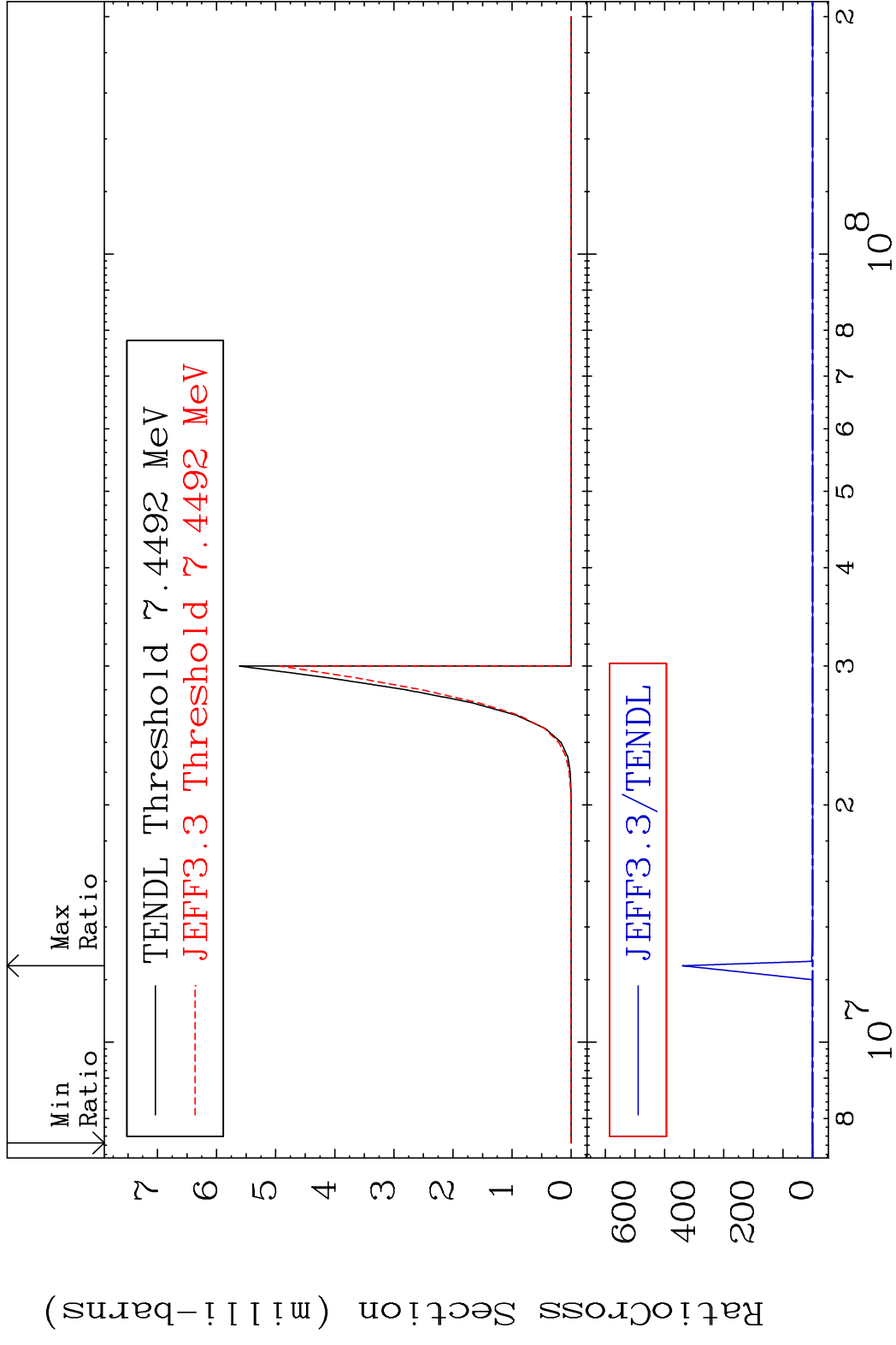


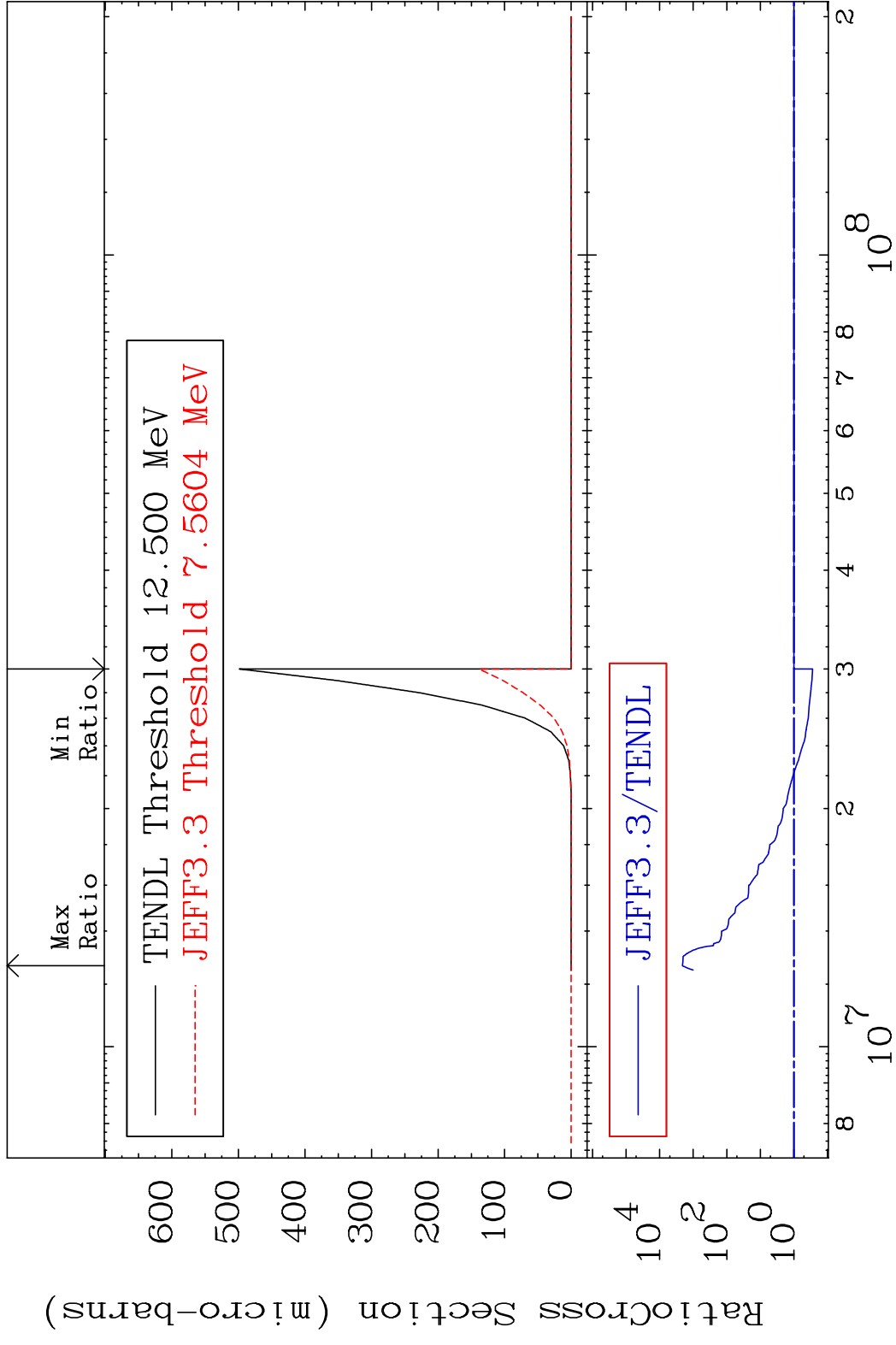




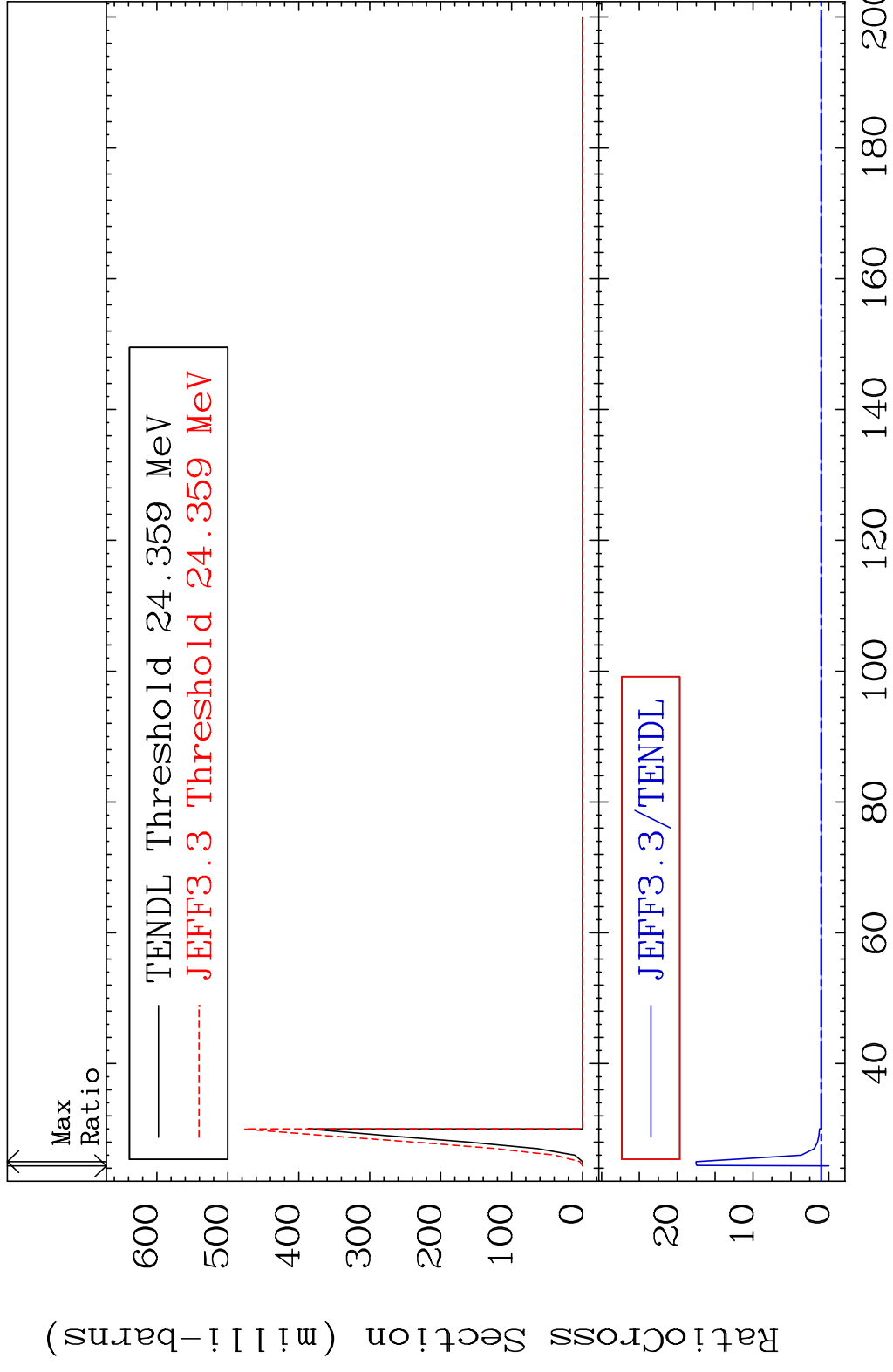


MAT 6719 (n,2n)  $\alpha$ :65-Tb-158g 67-Ho-163  
 Radionuclide Production Cross Section 100.00 dth 9999. %





MAT 6719 (n,4n):67-Ho-160g 67-Ho-163  
 Radionuclide Production Cross Section 1800 d to 1653. %



80 Incident Energy (MeV) 67-Ho-163

