

Program Complot  
(Version 2021-1)

by

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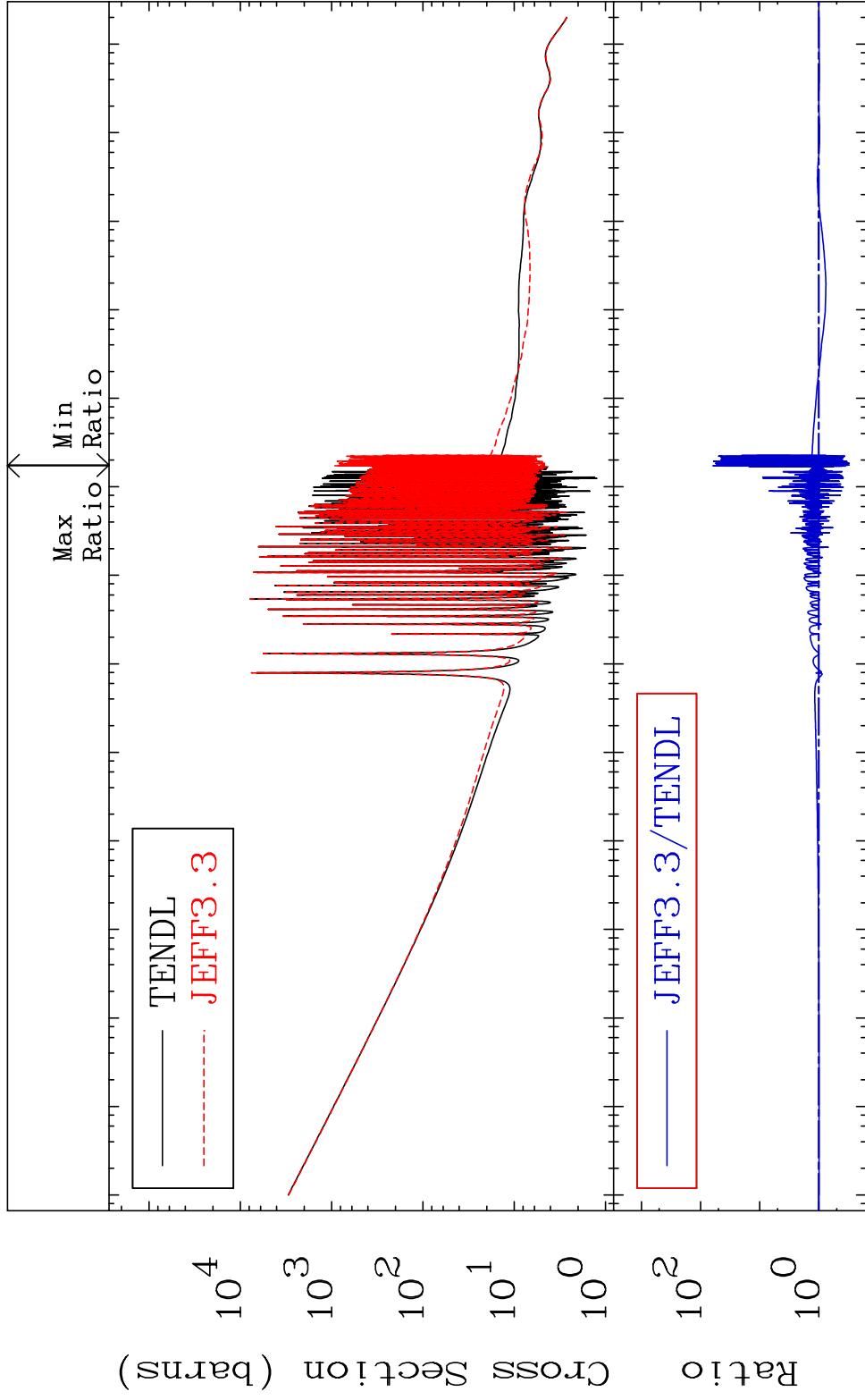
Press Mouse Button to Start

MAT 7034

Total

70-Yb-171

Cross Section -69.29 To 6017. %



1

Incident Energy (eV)

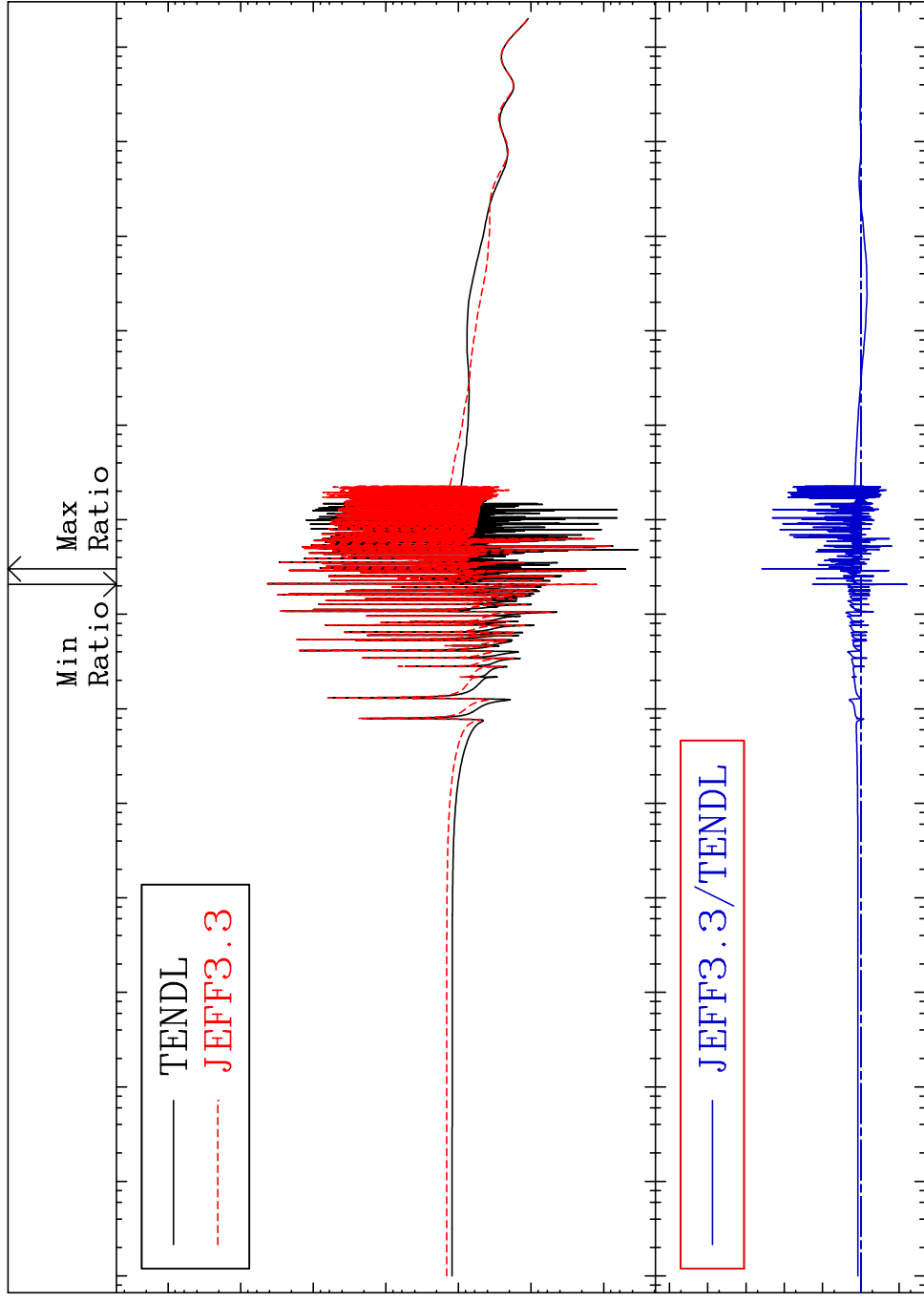
70-Yb-171

MAT 7034

Elastic

70-Yb-171

Cross Section -93.85 To 9999. %



$10^5$   
 $10^4$   
 $10^3$   
 $10^2$   
 $10^1$   
 $10^0$   
 $10^{-1}$   
 $10^{-2}$   
 $10^{-3}$   
 $10^{-4}$   
 $10^{-5}$

Cross Section (barns)

Ratio

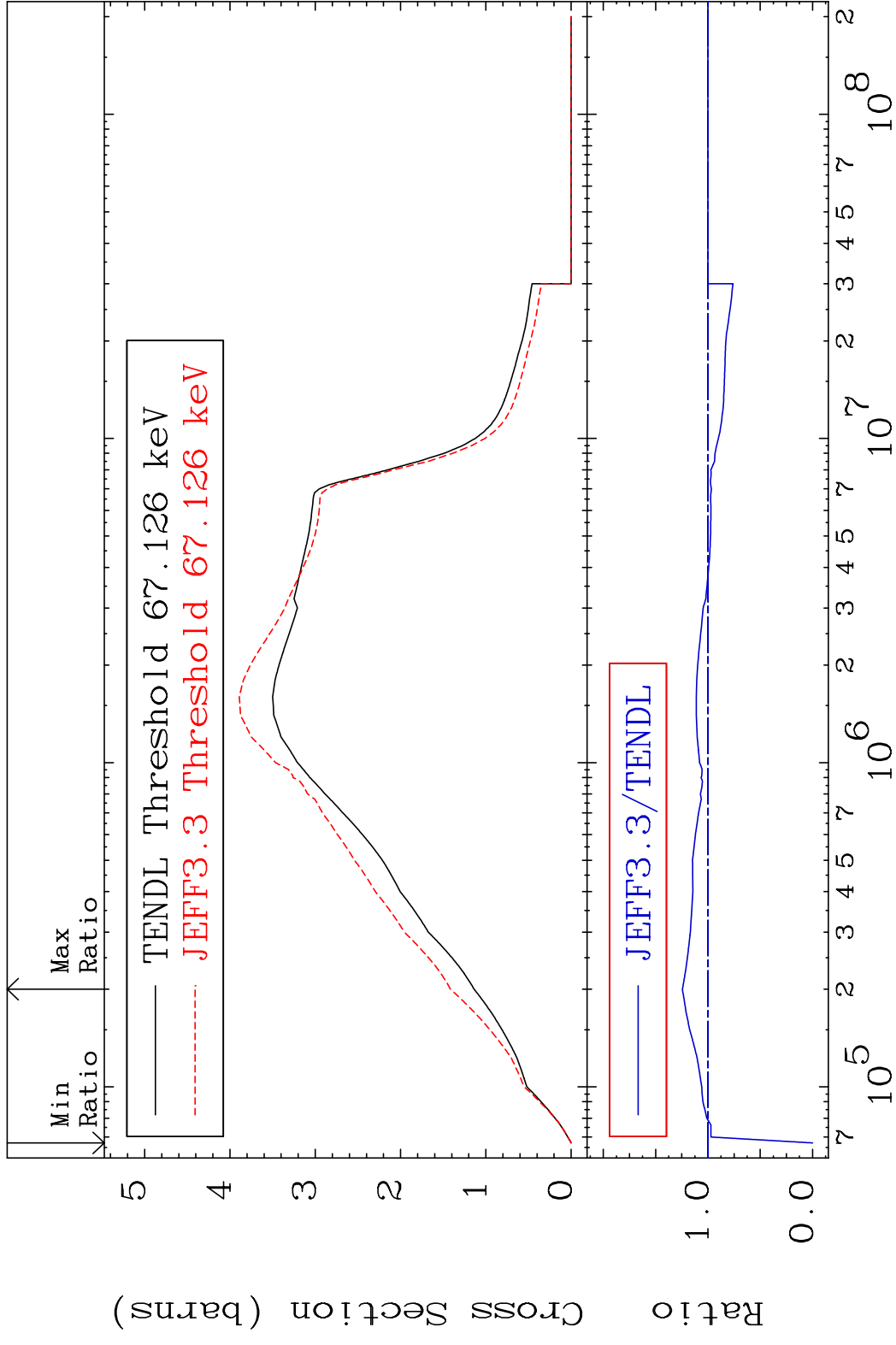
$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

Incident Energy (eV)

2

70-Yb-171

MAT 7034 Inelastic 70-Yb-171  
 Cross Section -100.0 To 24.45 %



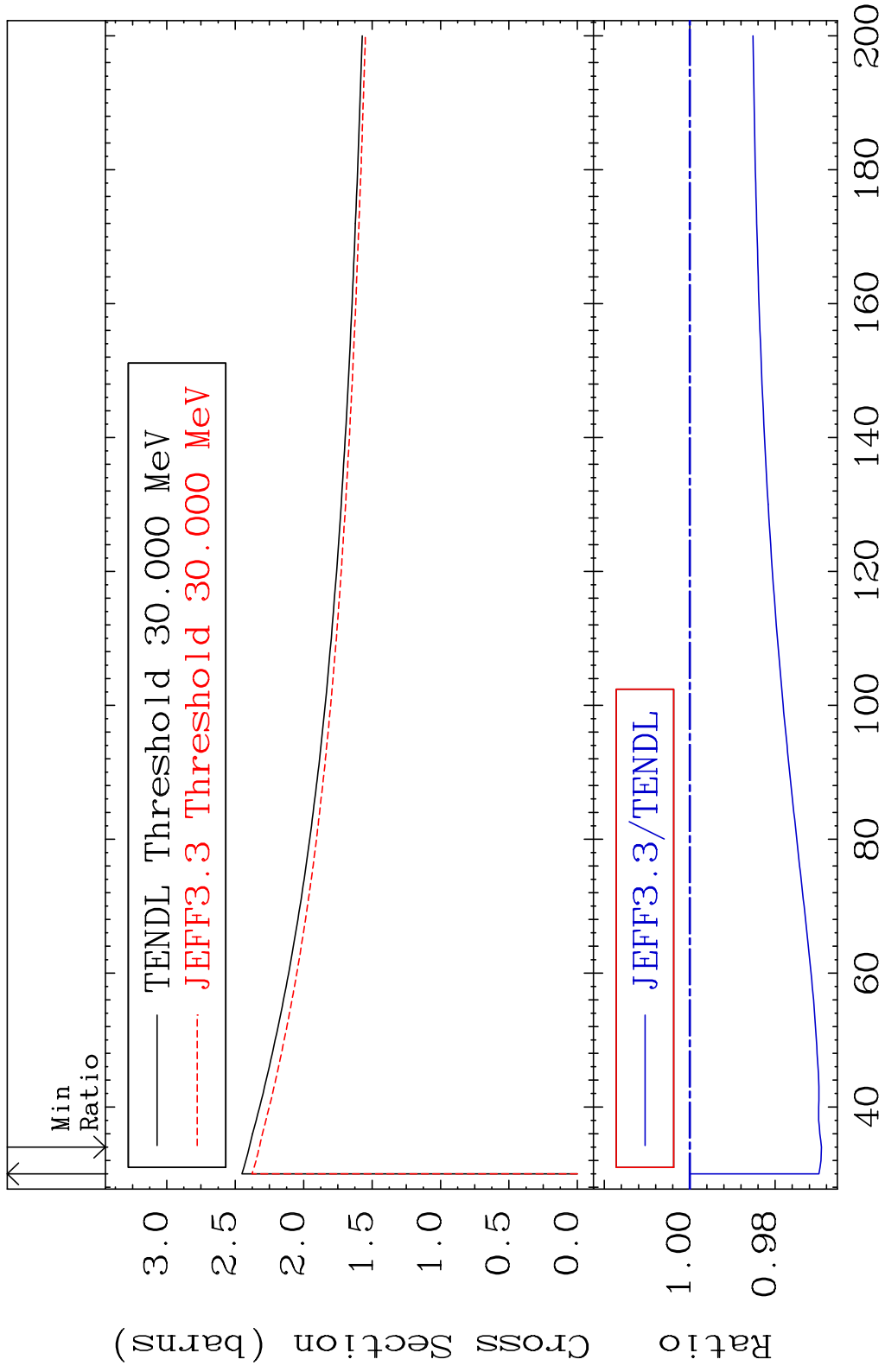
3 Incident Energy (eV) 70-Yb-171

MAT 7034

(n, remainder)

70-Yb-171

Cross Section -3.082 To 0.000 %

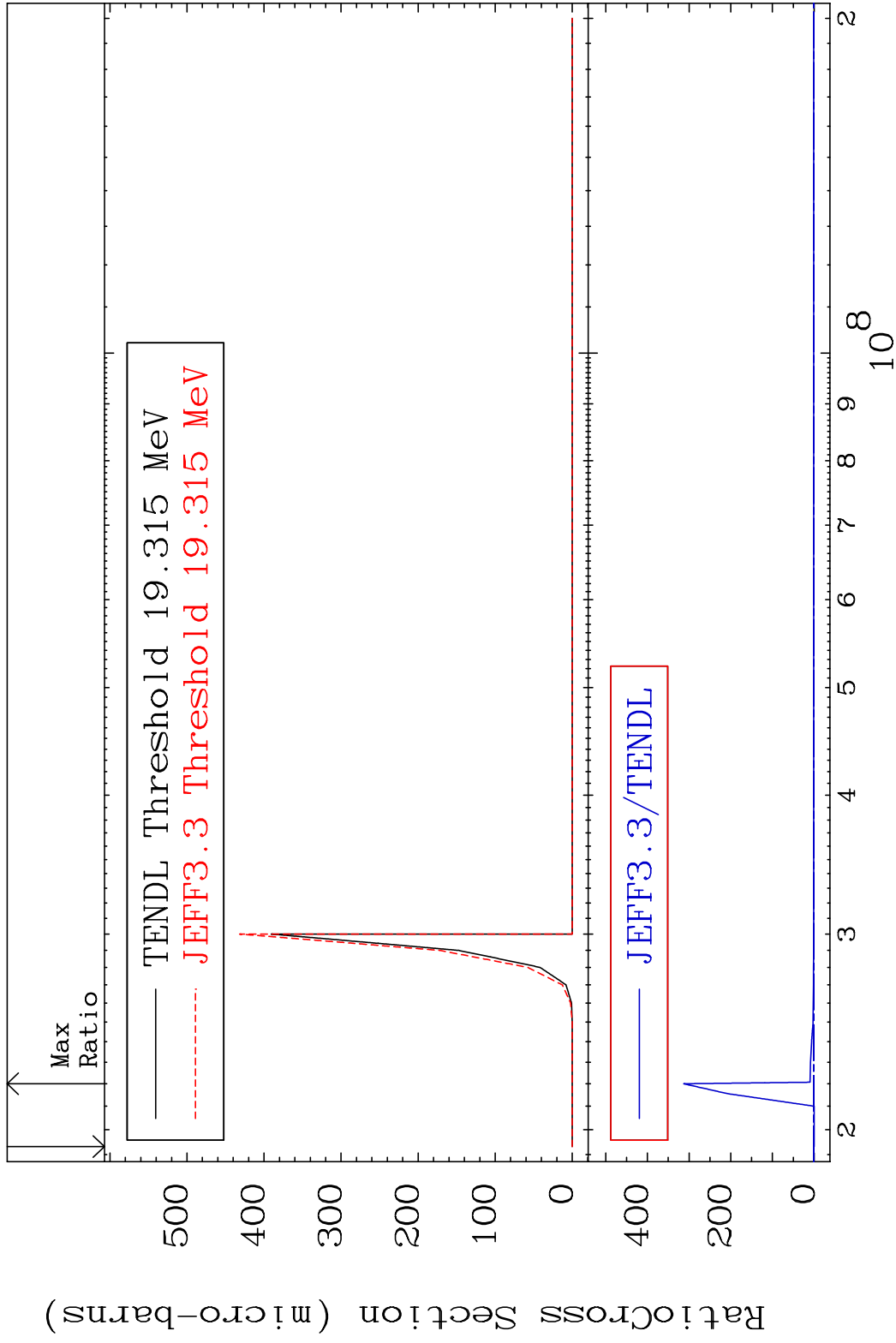


MAT 7034

(n,2n) d

70-Yb-171

Cross Section -100.0 To 9999. %



5

Incident Energy (eV)

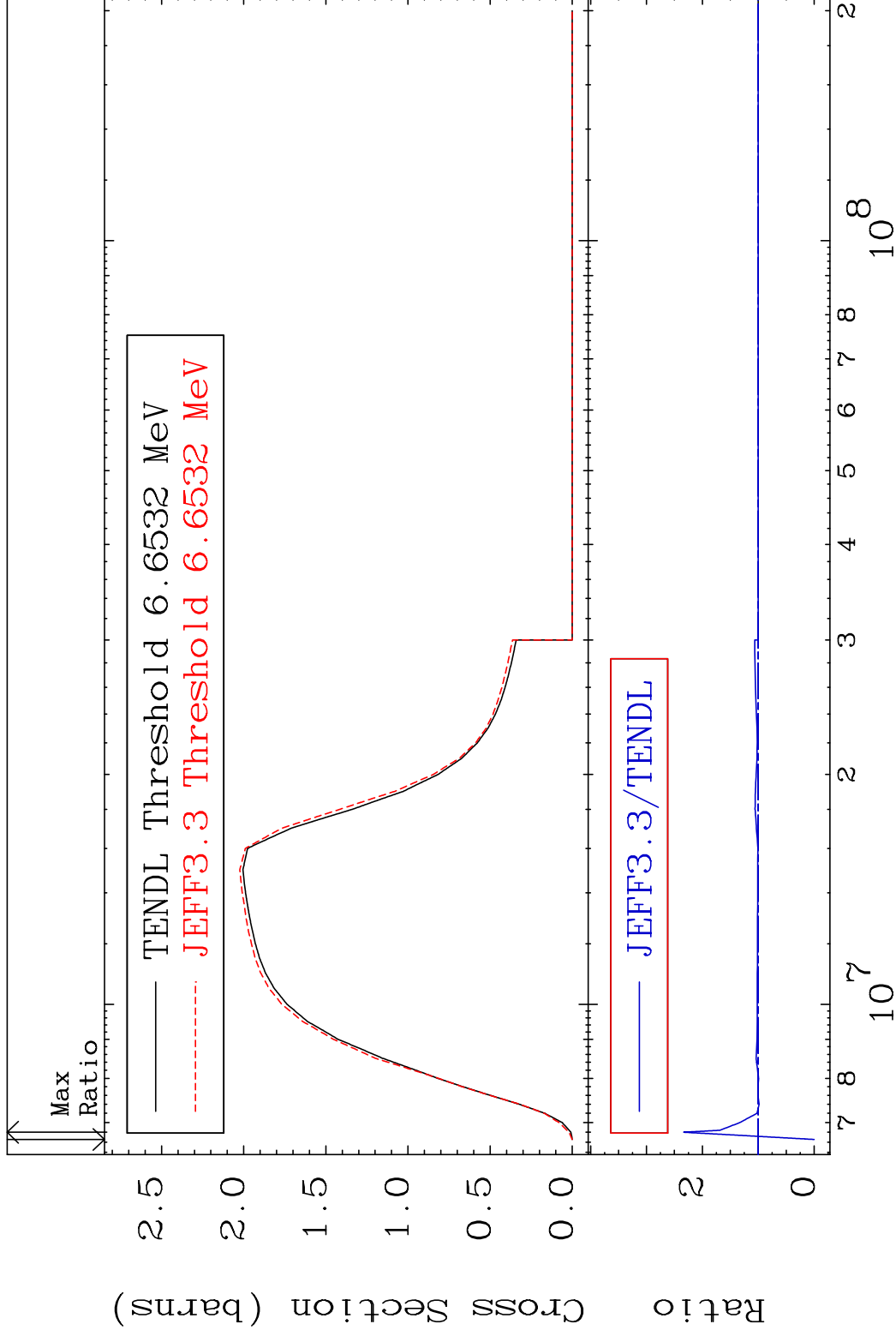
70-Yb-171

MAT 7034

(n,2n)

70-Yb-171

Cross Section -100.0 To 133.5 %



6

Incident Energy (eV)

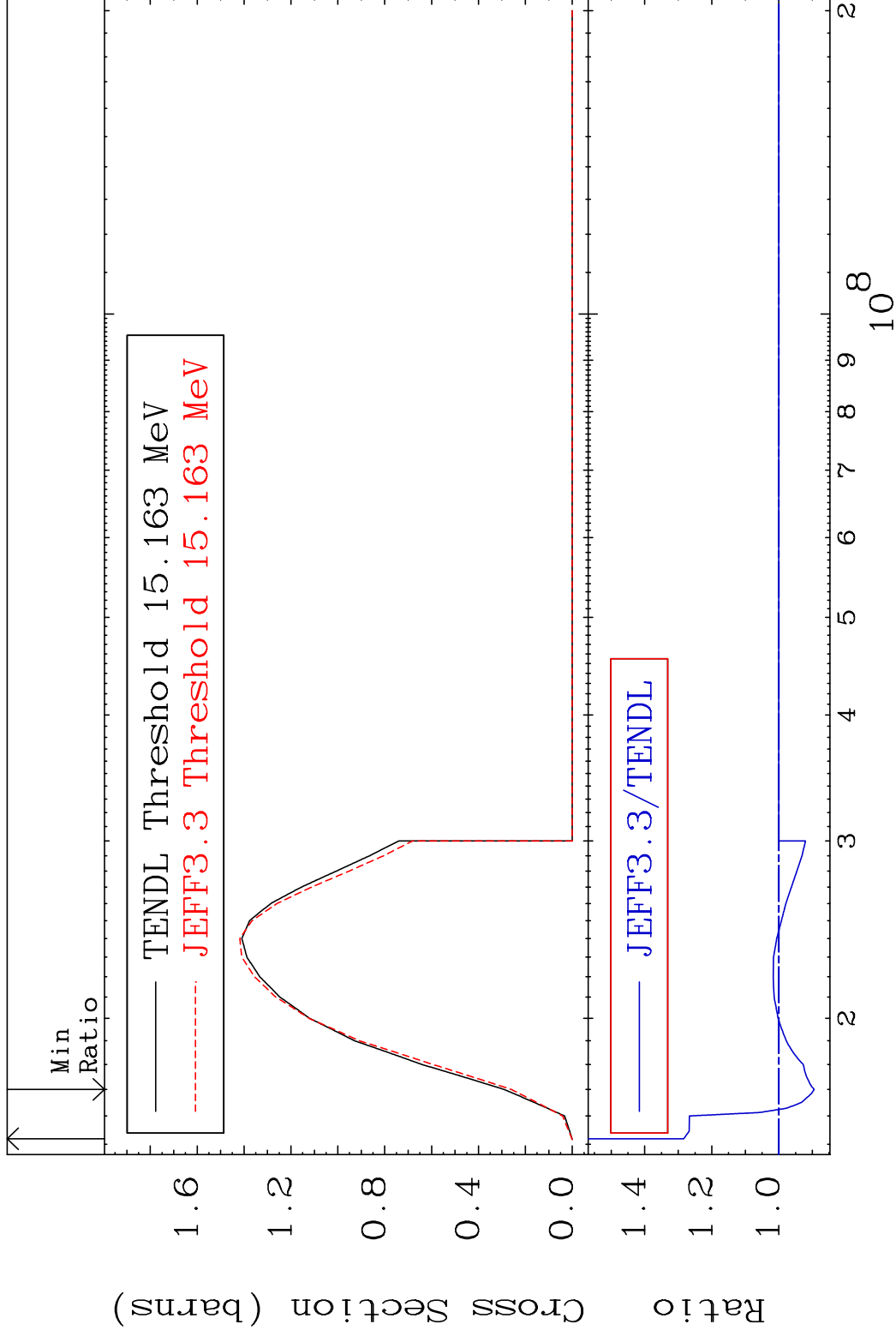
70-Yb-171

MAT 7034

(n,3n)

70-Yb-171

Cross Section -10.52 To 28.39 %



7

Incident Energy (eV)

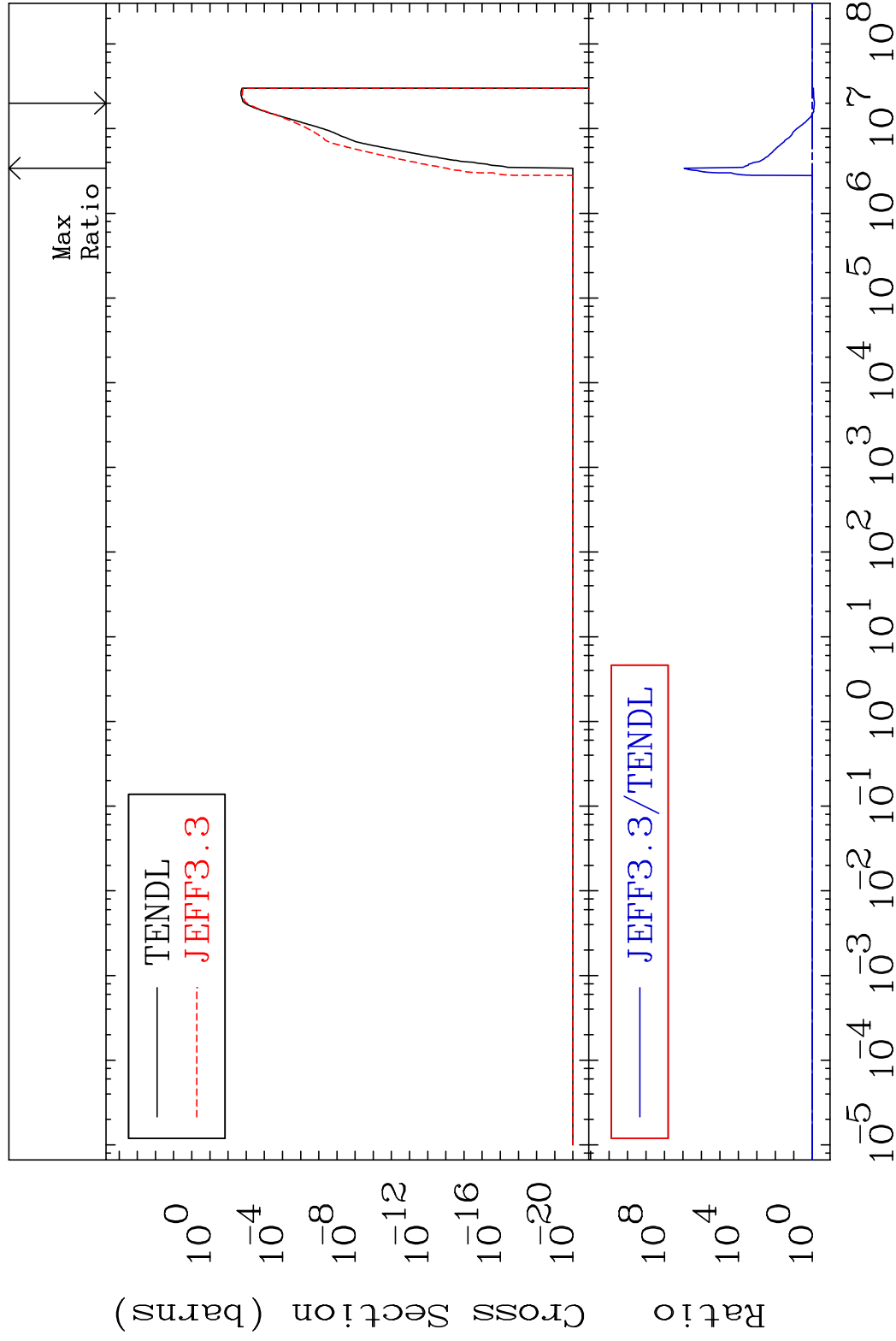
70-Yb-171

MAT 7034

(n, n')  $\alpha$

70-Yb-171

Cross Section -22.22 To 9999. %

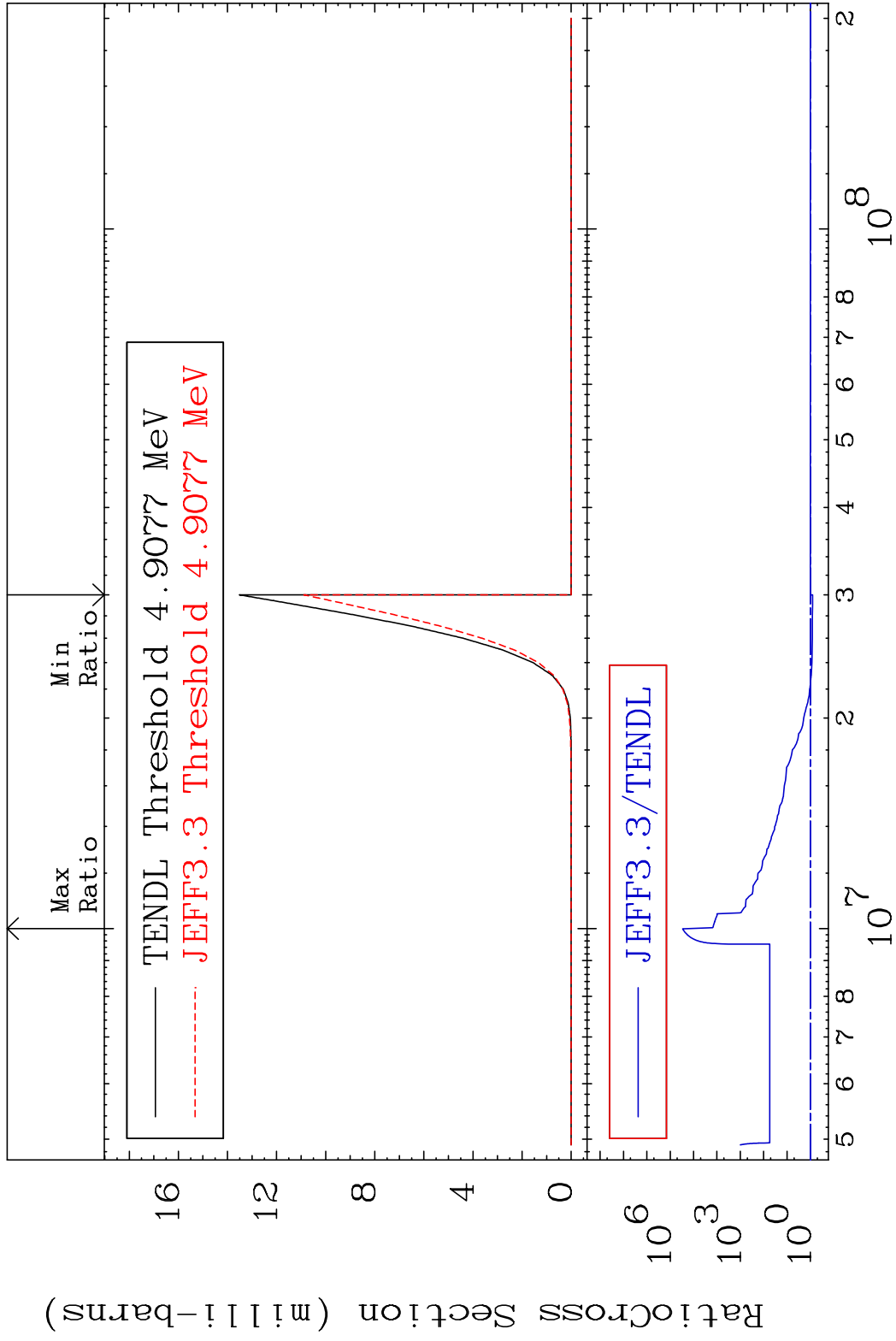


MAT 7034

(n,2n)  $\alpha$

70-Yb-171

Cross Section -19.48 To 9999. %



9

Incident Energy (eV)

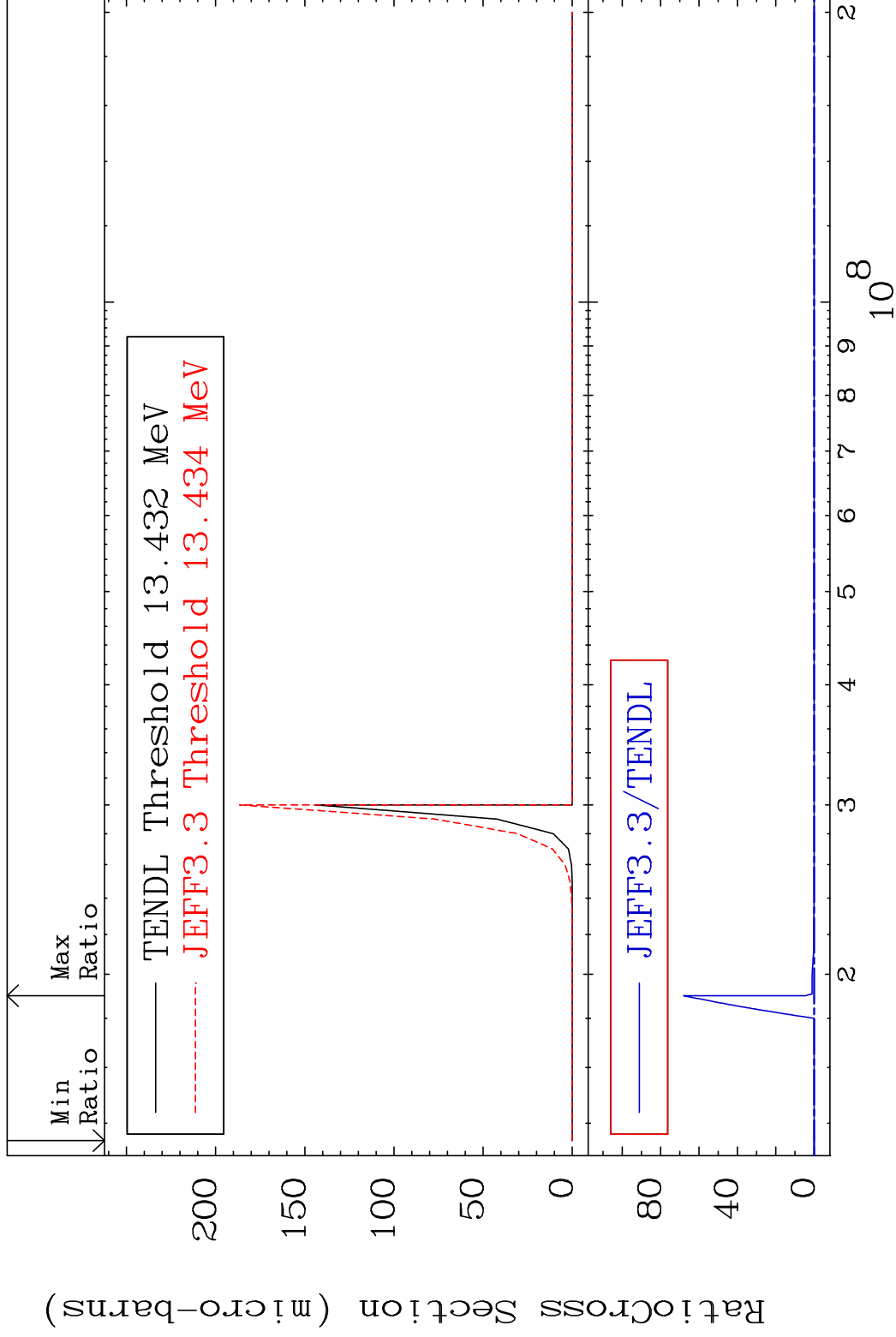
70-Yb-171

MAT 7034

(n,3n)  $\alpha$

70-Yb-171

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

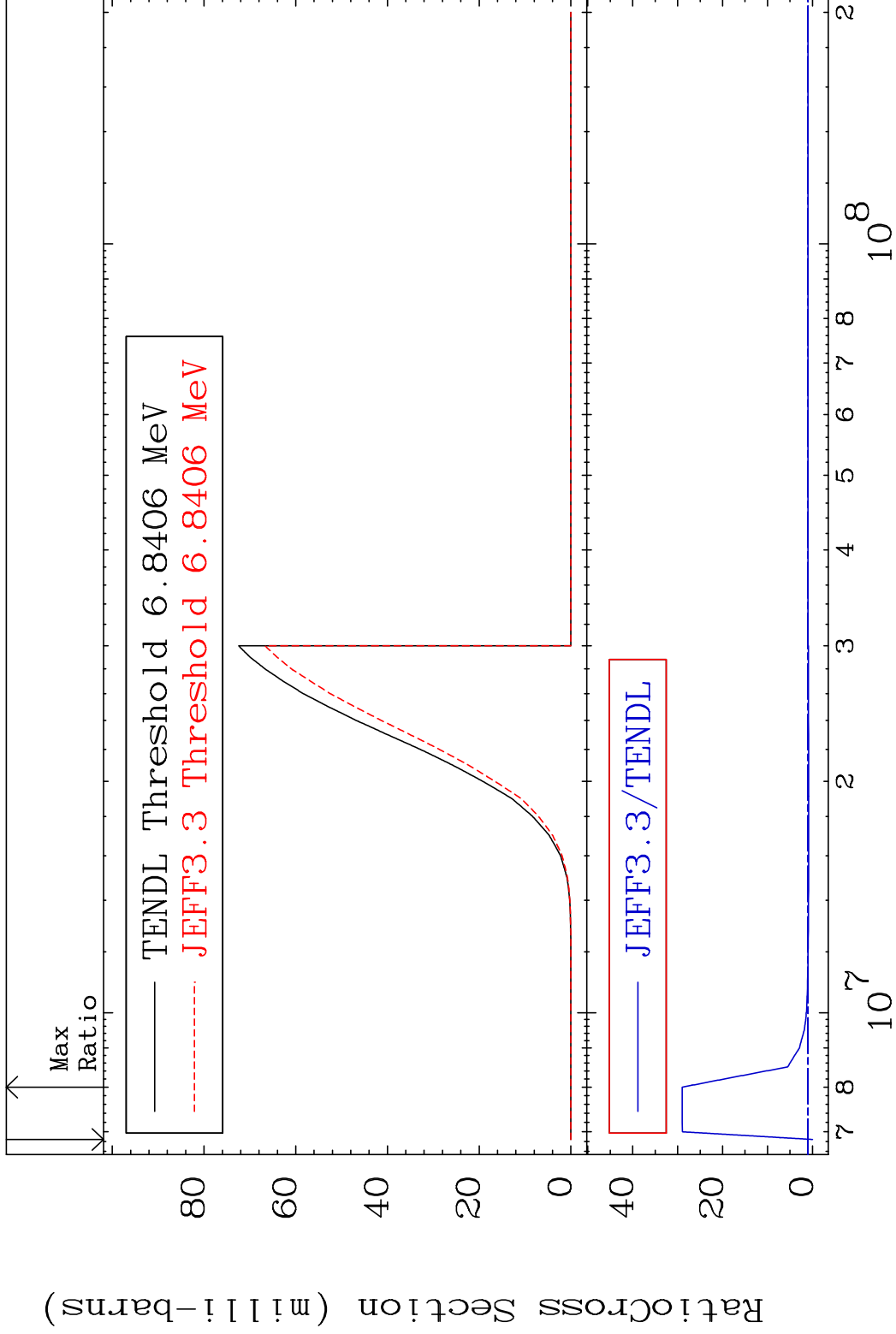
70-Yb-171

MAT 7034

(n, n') p

70-Yb-171

Cross Section -100.0 To 2800. %

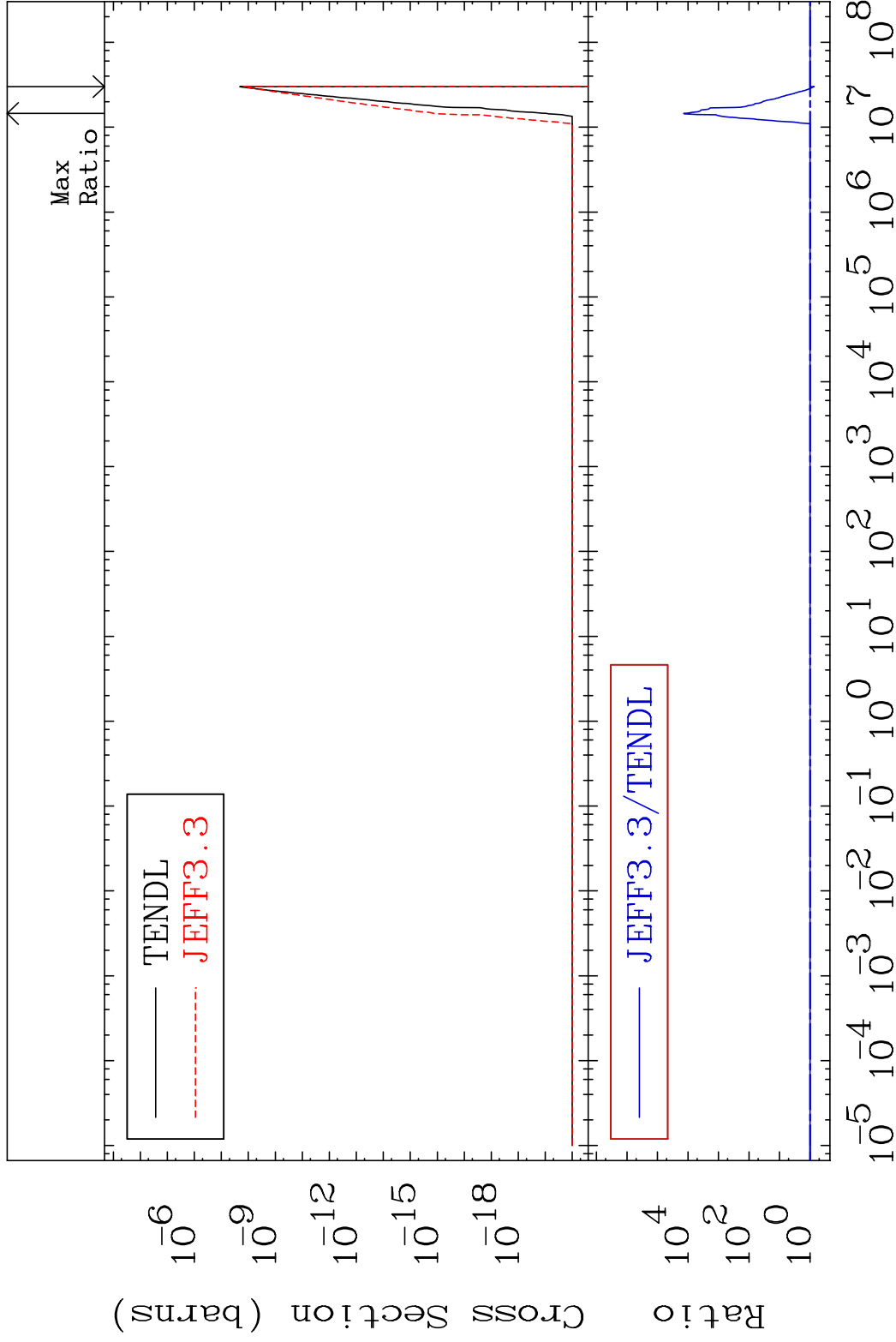


MAT 7034

(n, n') 2α

70-Yb-171

Cross Section -26.96 To 9999. %

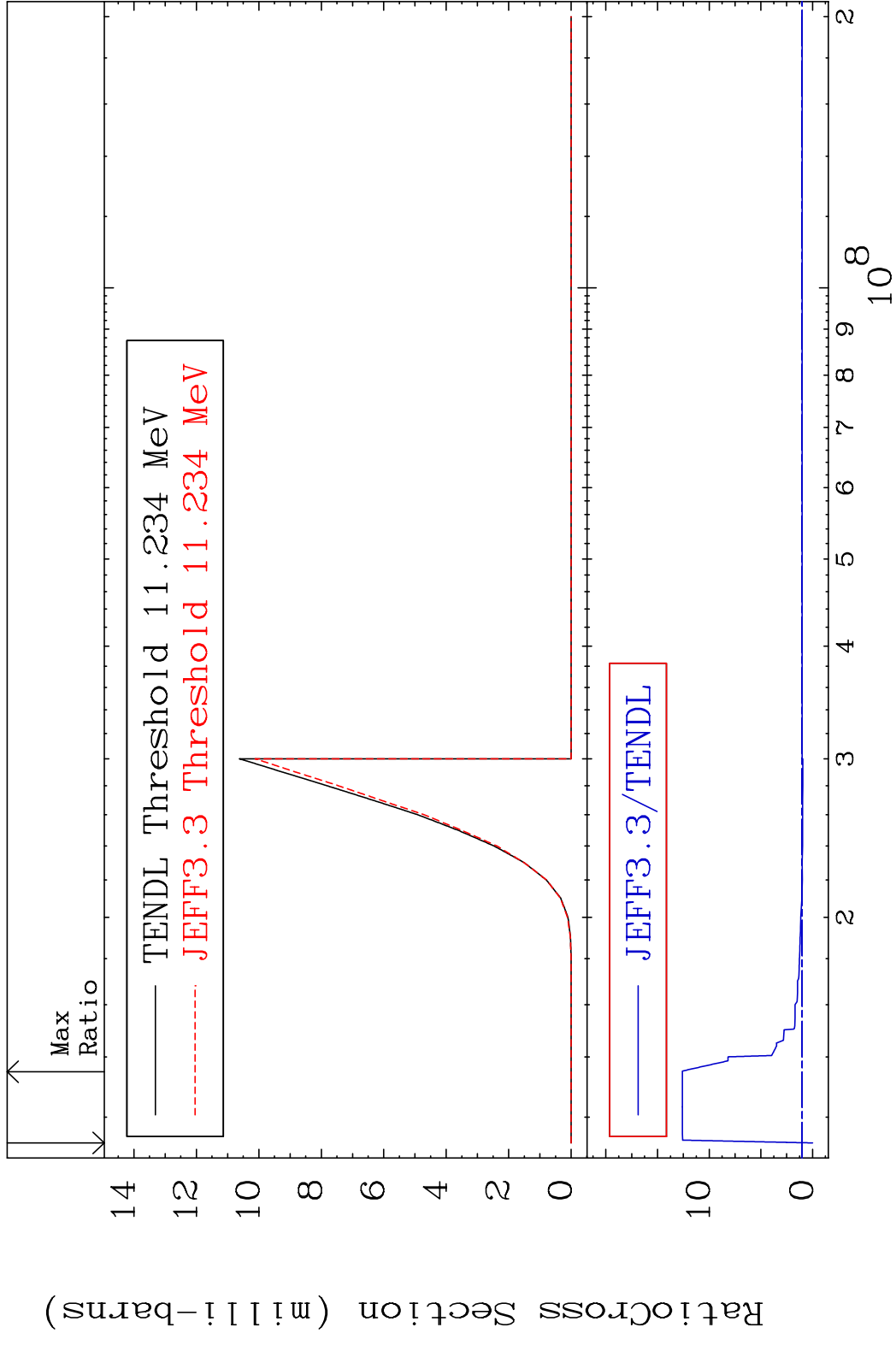


12

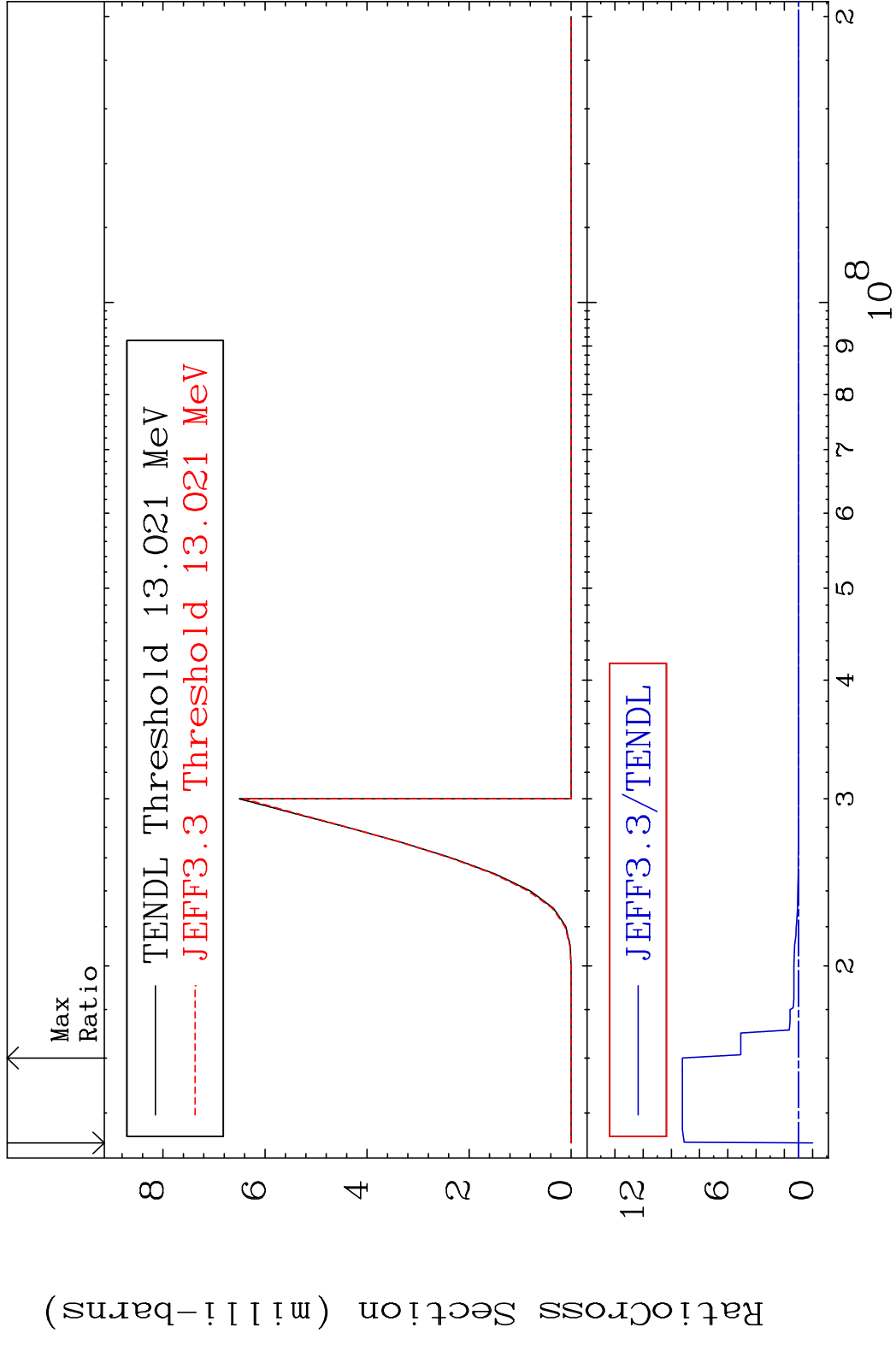
Incident Energy (eV)

70-Yb-171

MAT 7034 (n, n') d 70-Yb-171  
 Cross Section -100.0 To 1160. %



MAT 7034 (n, n') t 70-Yb-171  
 Cross Section -100.0 To 822.2 %

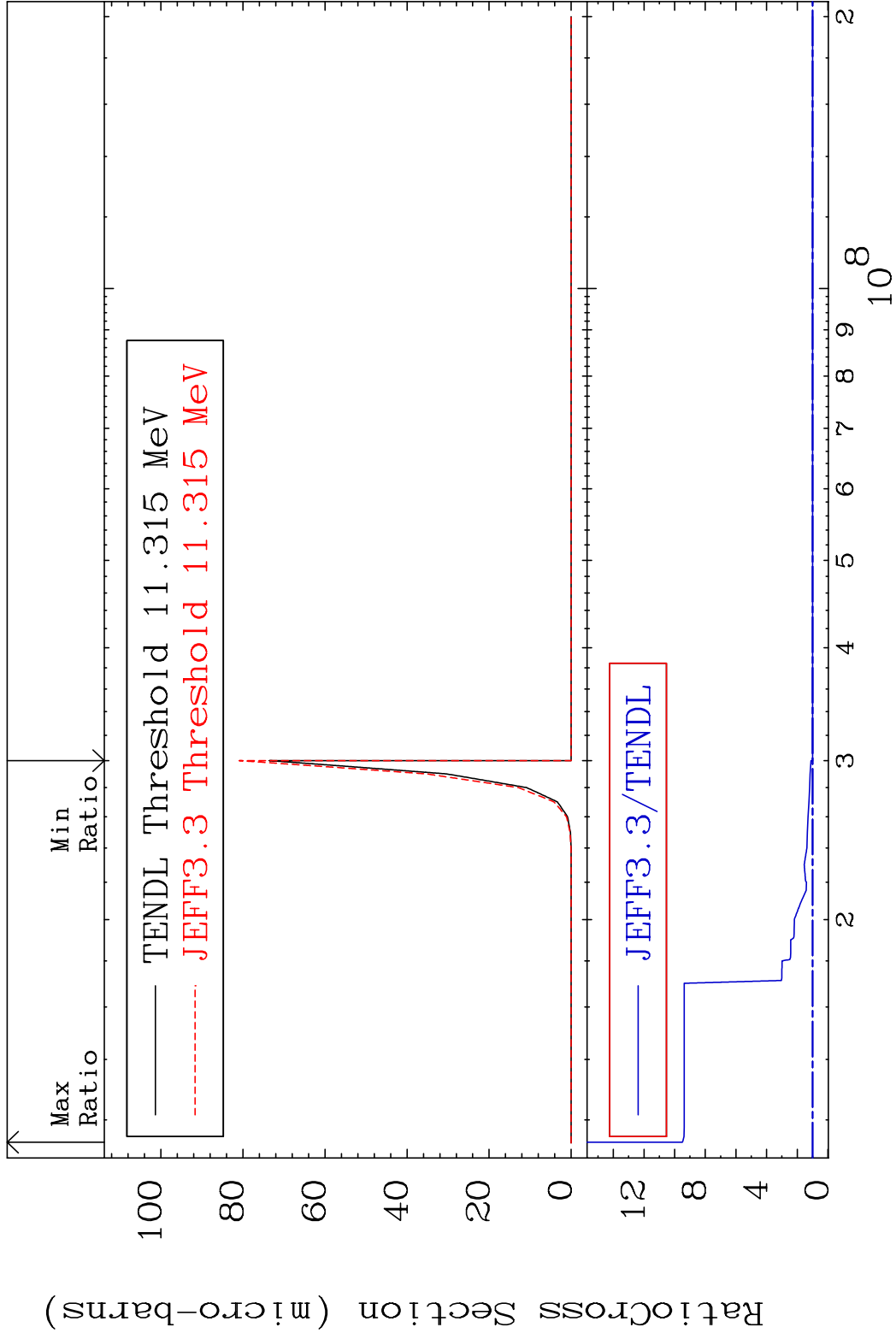


MAT 7034

(n,n') He-3

70-Yb-171

Cross Section 0.000 To 849.6 %

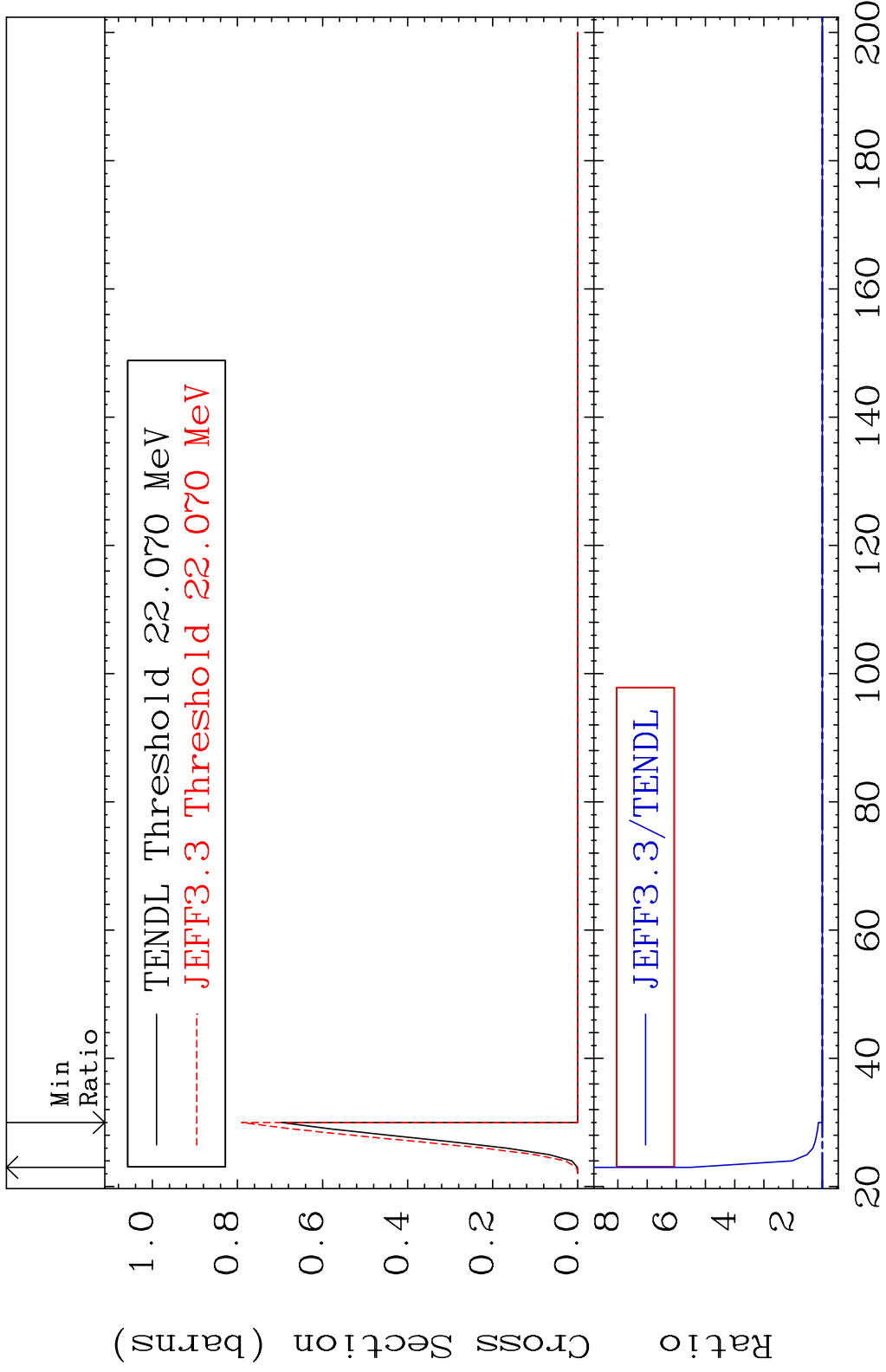


MAT 7034

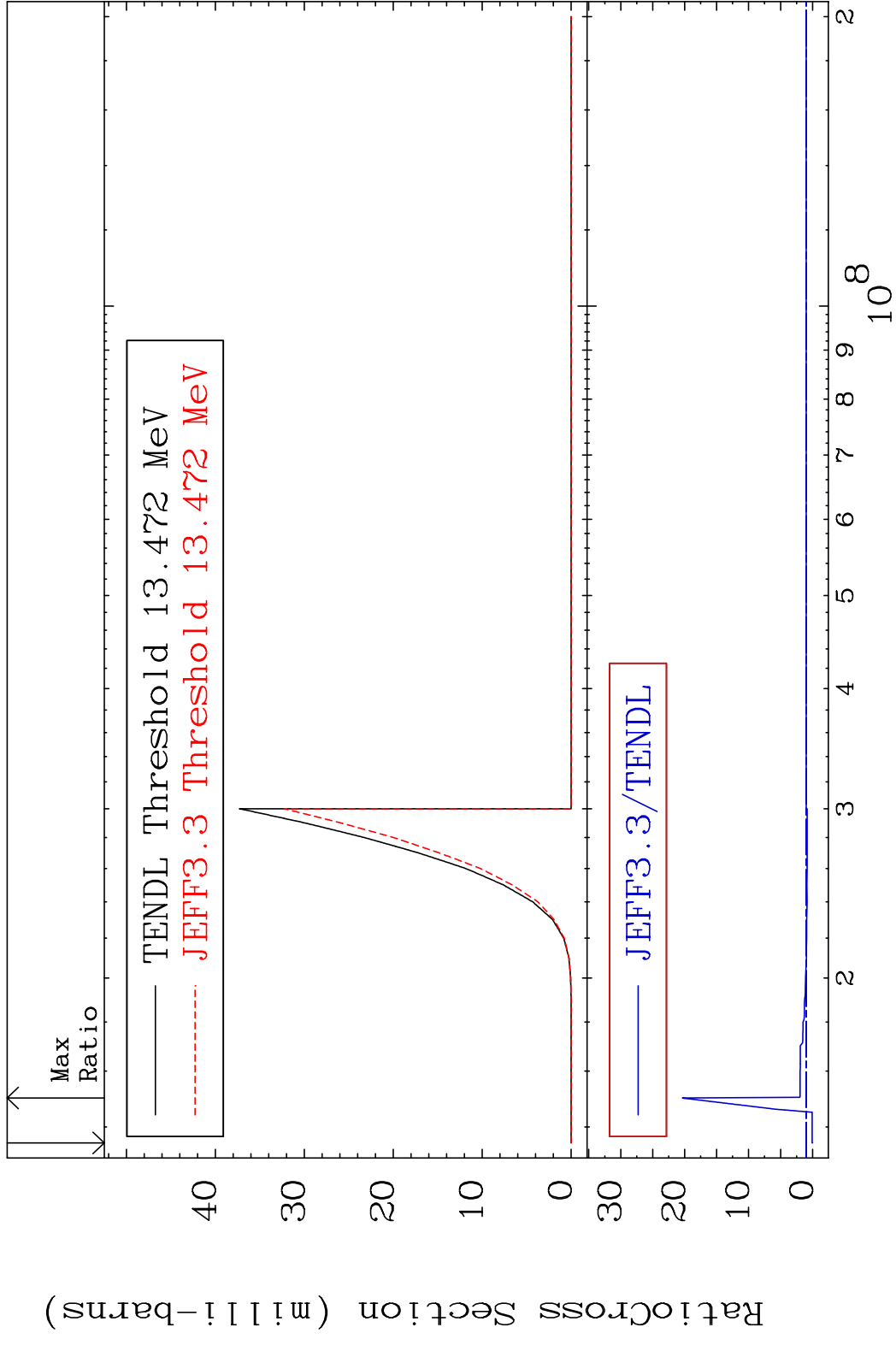
(n,4n)

70-Yb-171

Cross Section 0.000 To 451.8 %



MAT 7034 (n,2n) p 70-Yb-171  
 Cross Section -100.0 To 1936. %

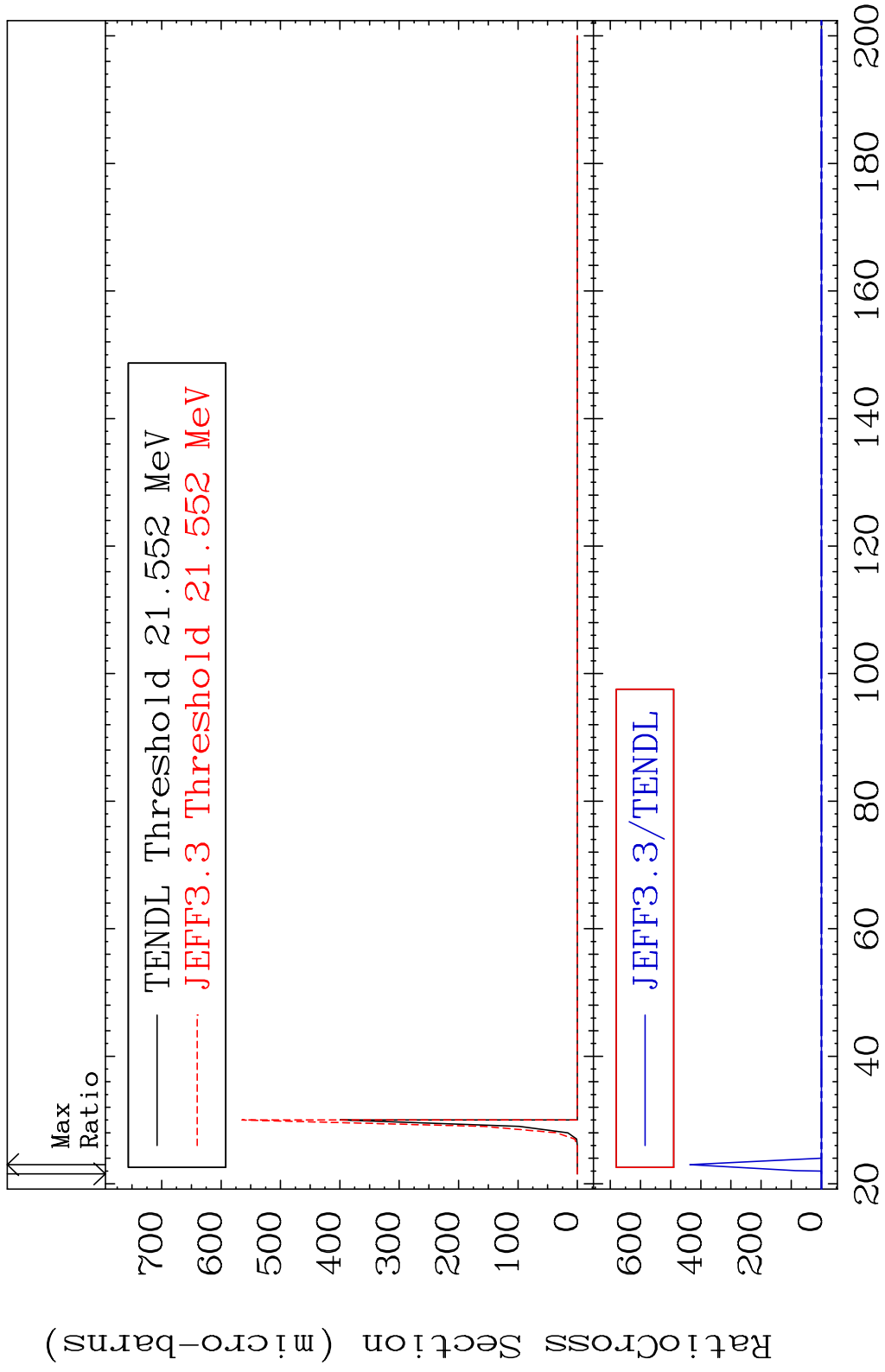


MAT 7034

(n,3n) p

70-Yb-171

Cross Section -100.0 To 9999. %

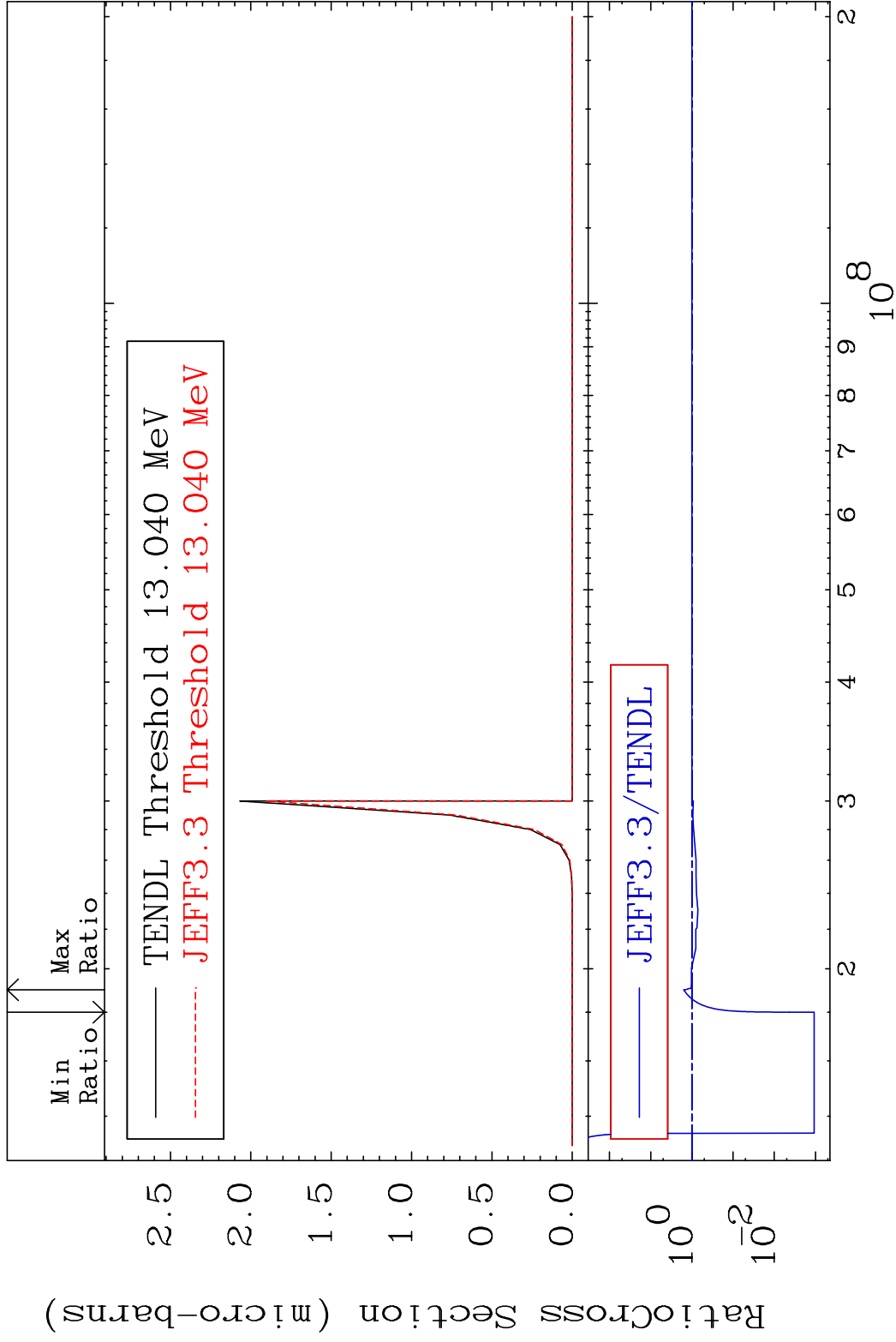


MAT 7034

(n,2n) p

70-Yb-171

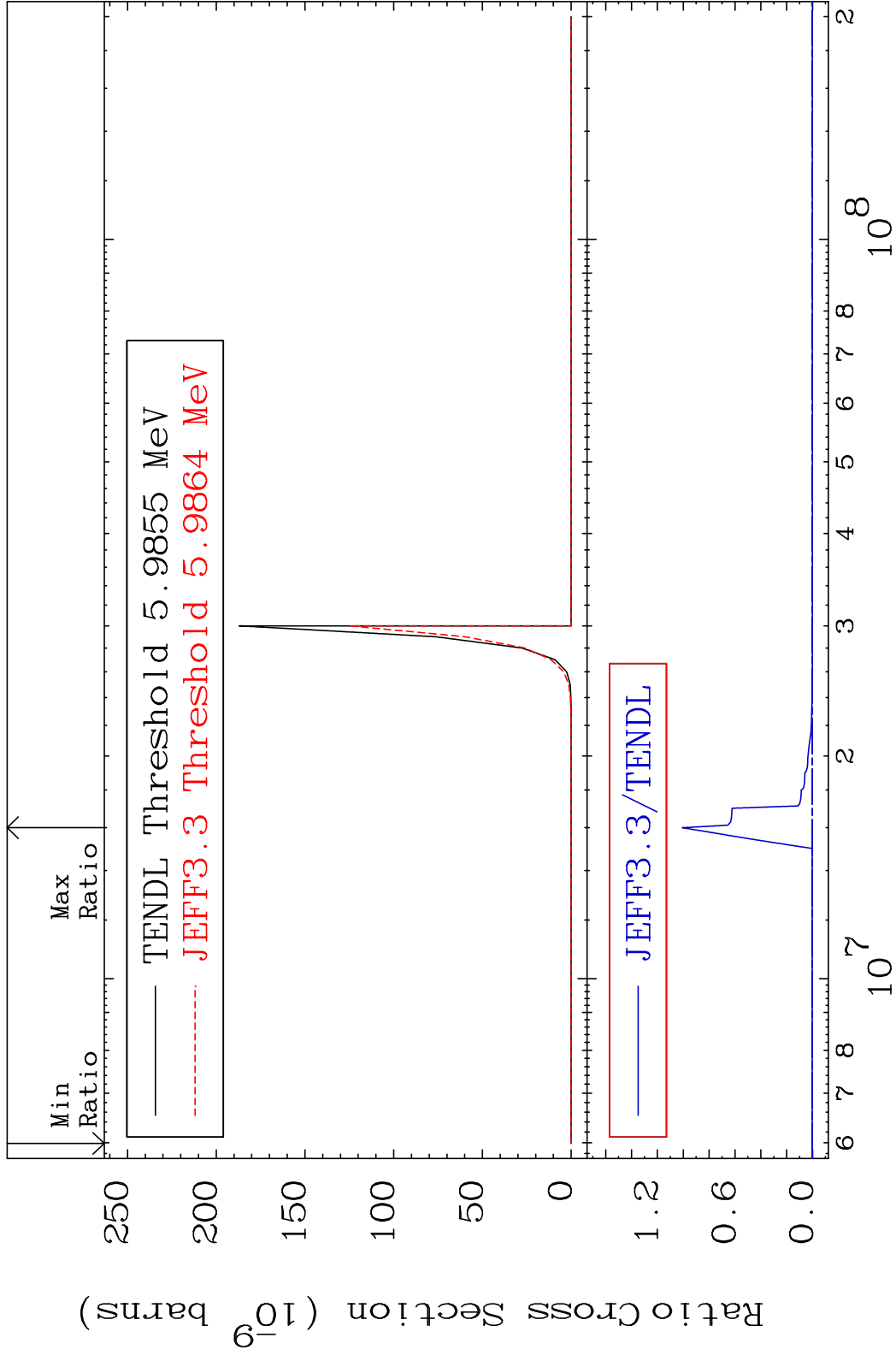
Cross Section -99.89 To 58.24 %



MAT 7034

(n,n') p  $\alpha$  70-Yb-171

Cross Section -100.0 To 9999. %

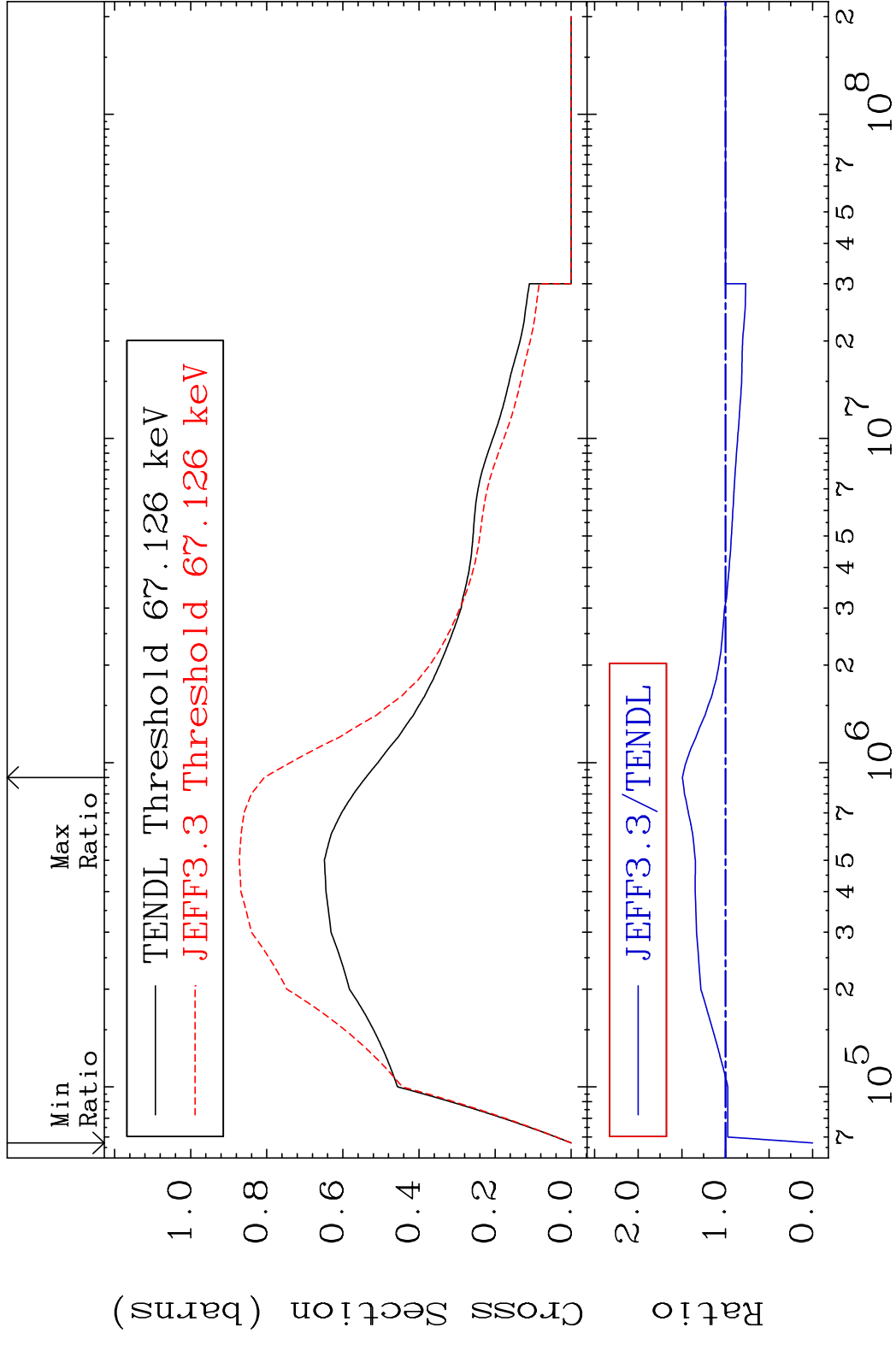


20

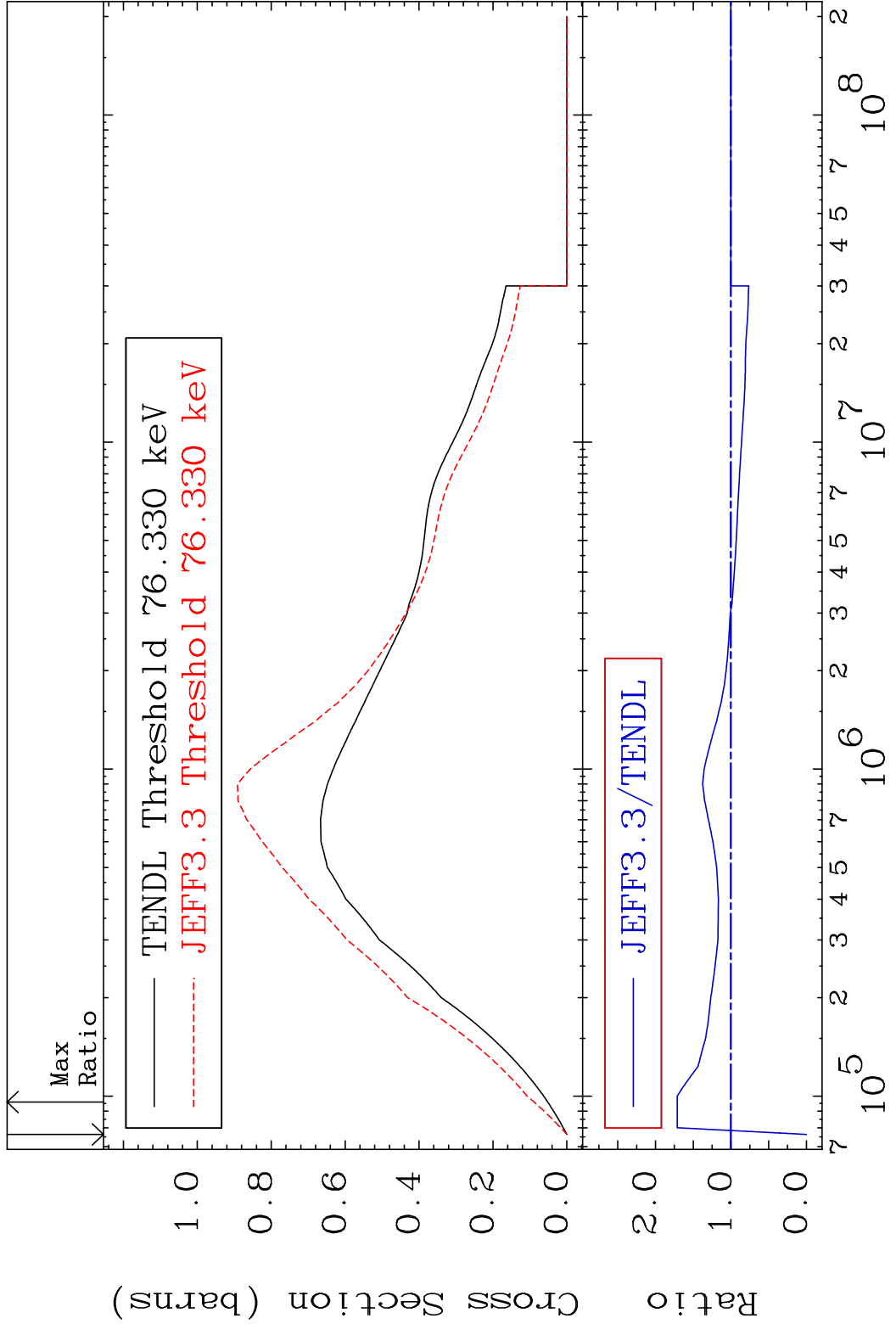
Incident Energy (eV)

70-Yb-171

MAT 7034 MT= 51 (n, n') Level 70-Yb-171  
 Cross Section -100.0 To 49.40 %



MAT 7034 MT= 52 (n, n') Level 70-Yb-171  
 Cross Section -100.0 To 71.27 %

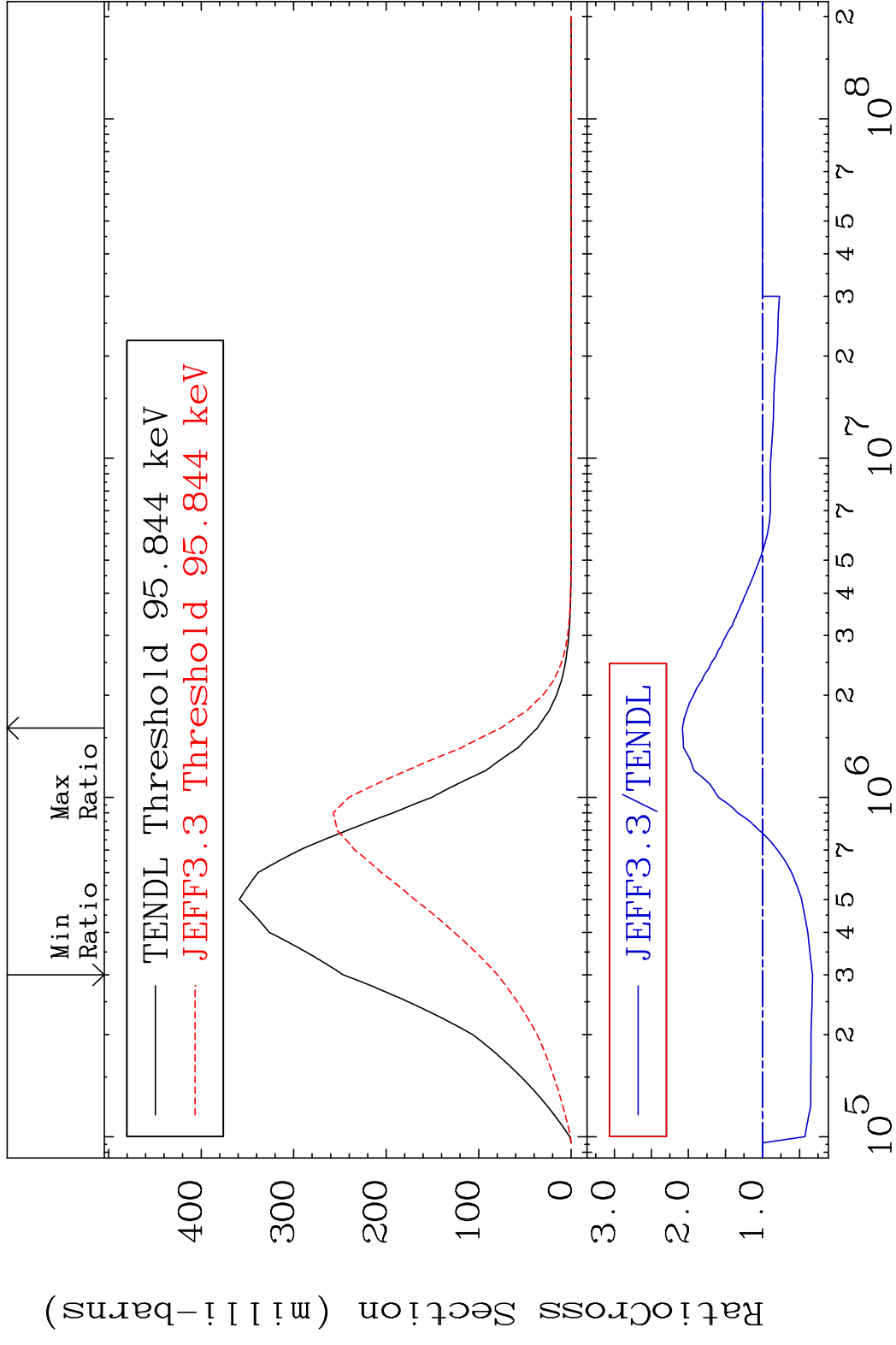


MAT 7034

MT= 53 (n, n') Level

70-Yb-171

Cross Section -67.62 To 108.2 %

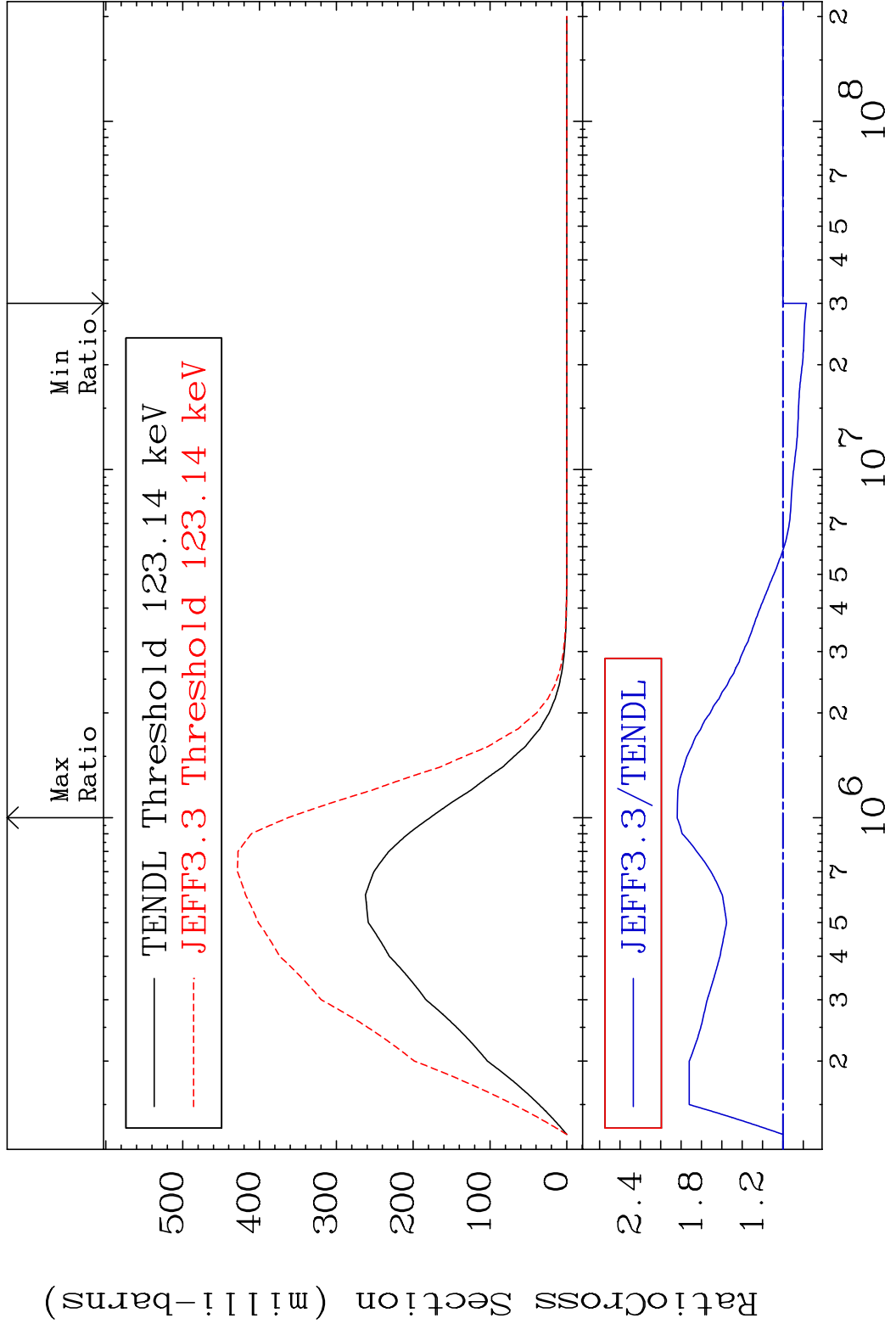


23

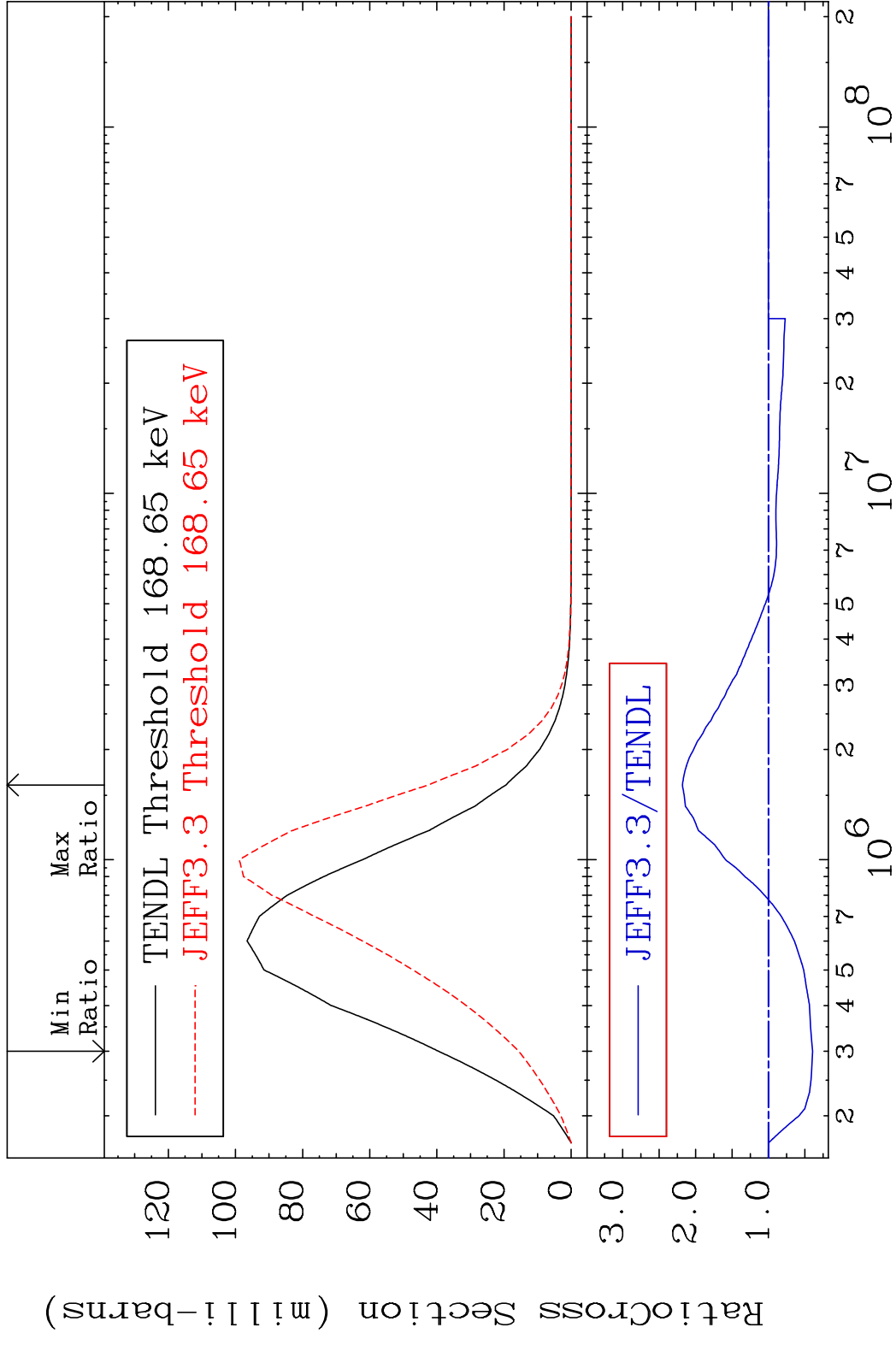
Incident Energy (eV)

70-Yb-171

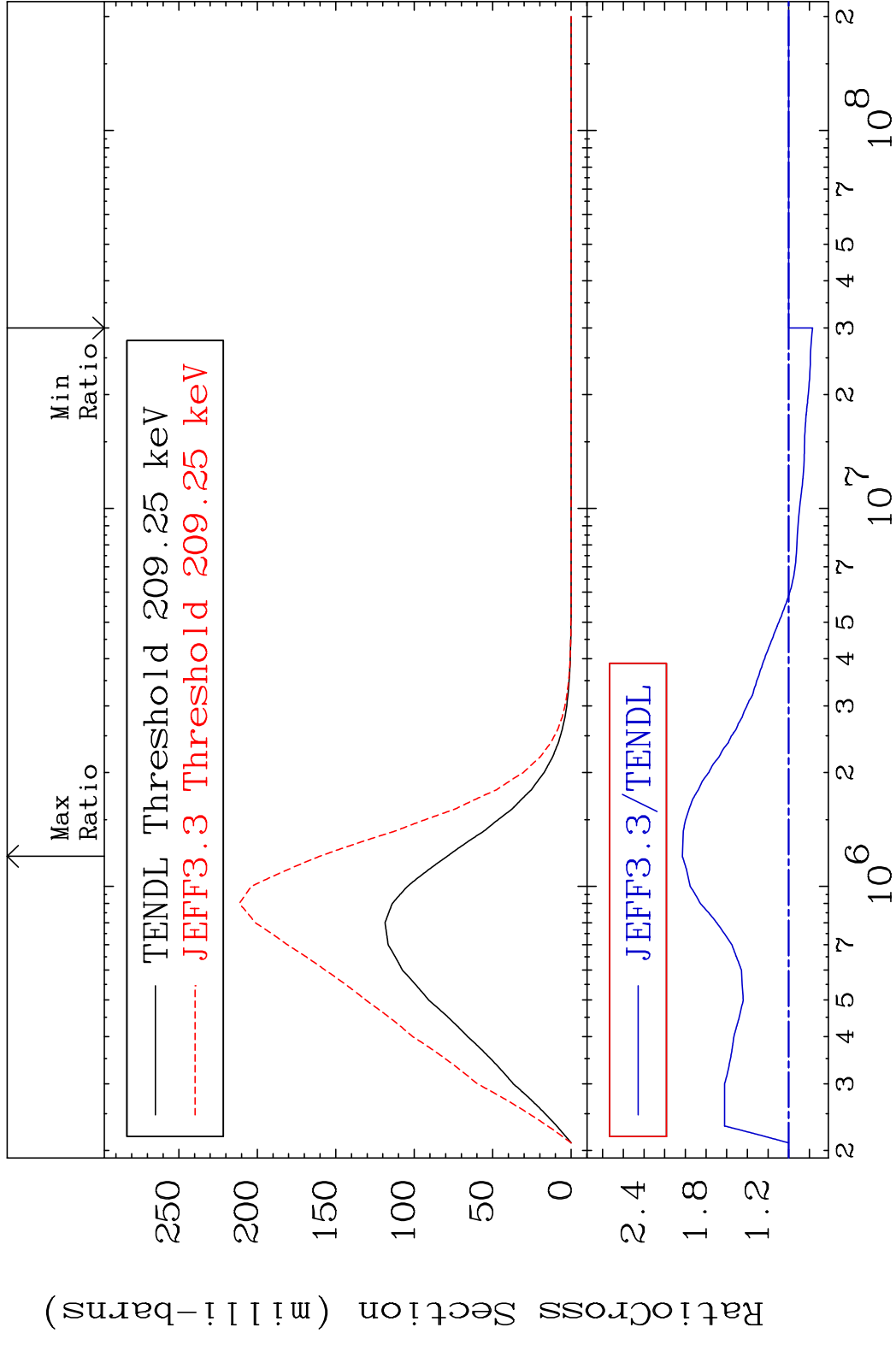
MAT 7034 MT= 54 (n, n') Level 70-Yb-171  
 Cross Section -23.05 To 103.8 %



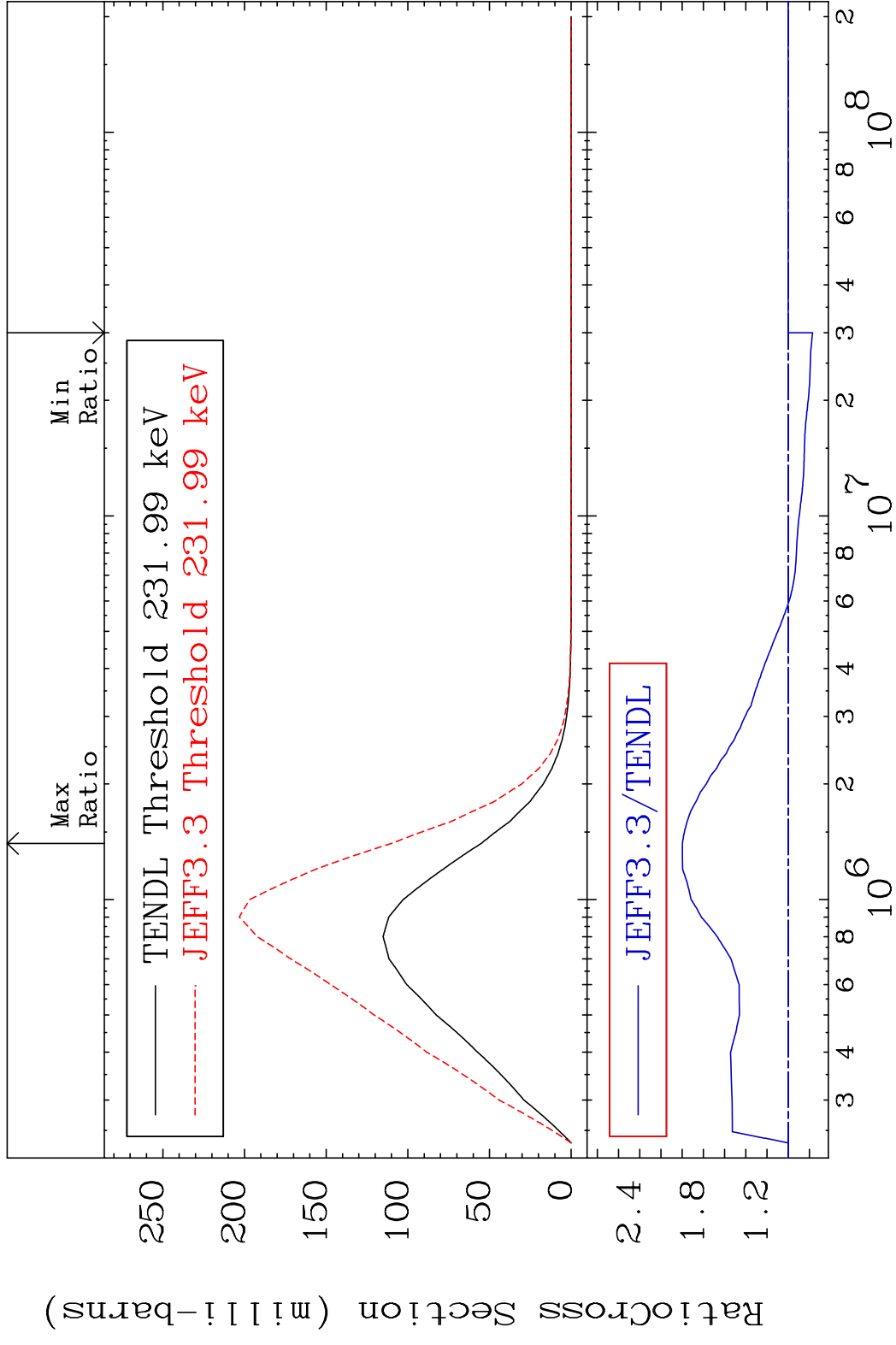
MAT 7034 MT= 55 (n,n') Level 70-Yb-171  
 Cross Section -60.49 To 118.2 %



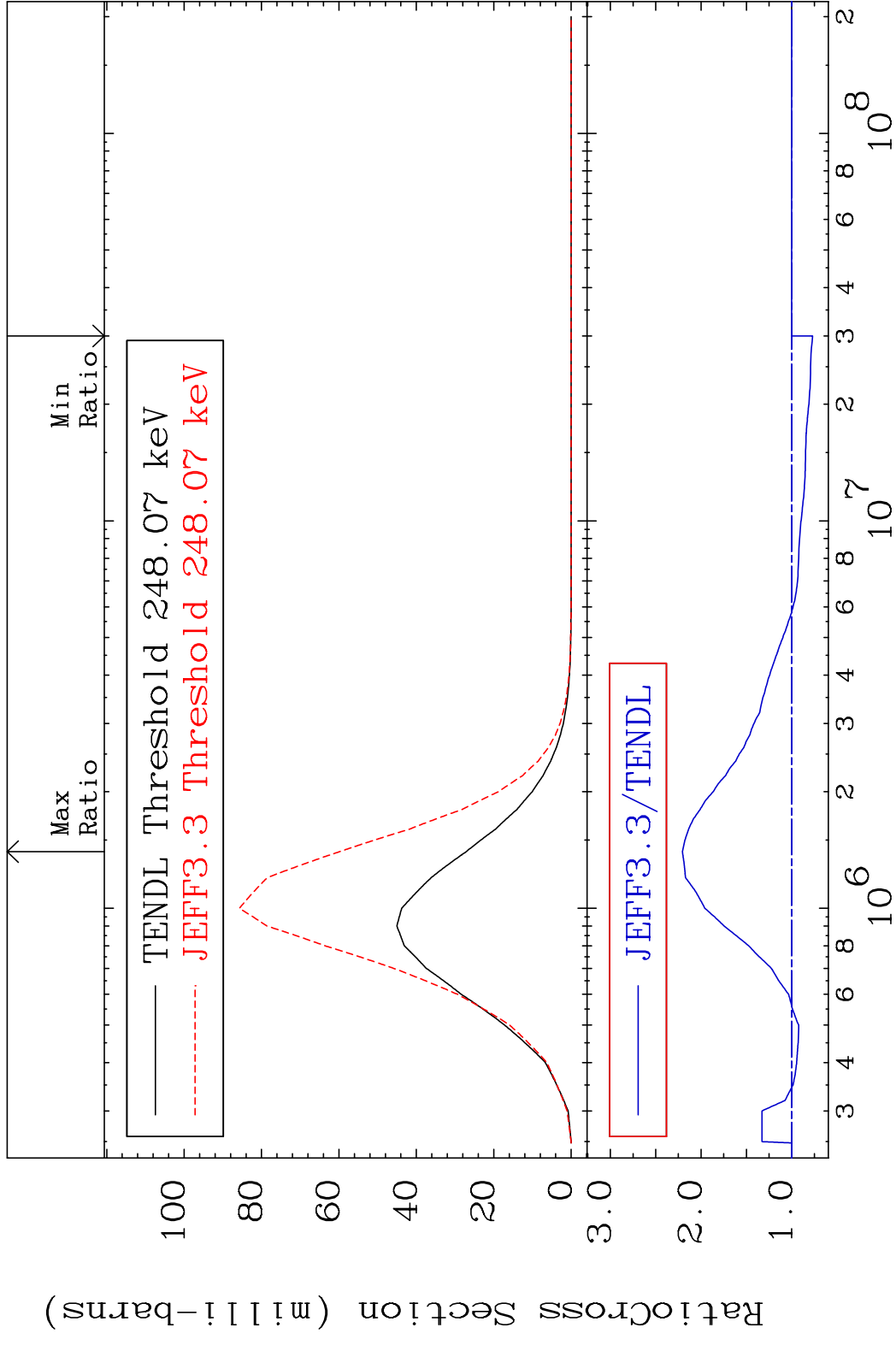
MAT 7034 MT= 56 (n,n') Level 70-Yb-171  
 Cross Section -23.04 To 102.9 %



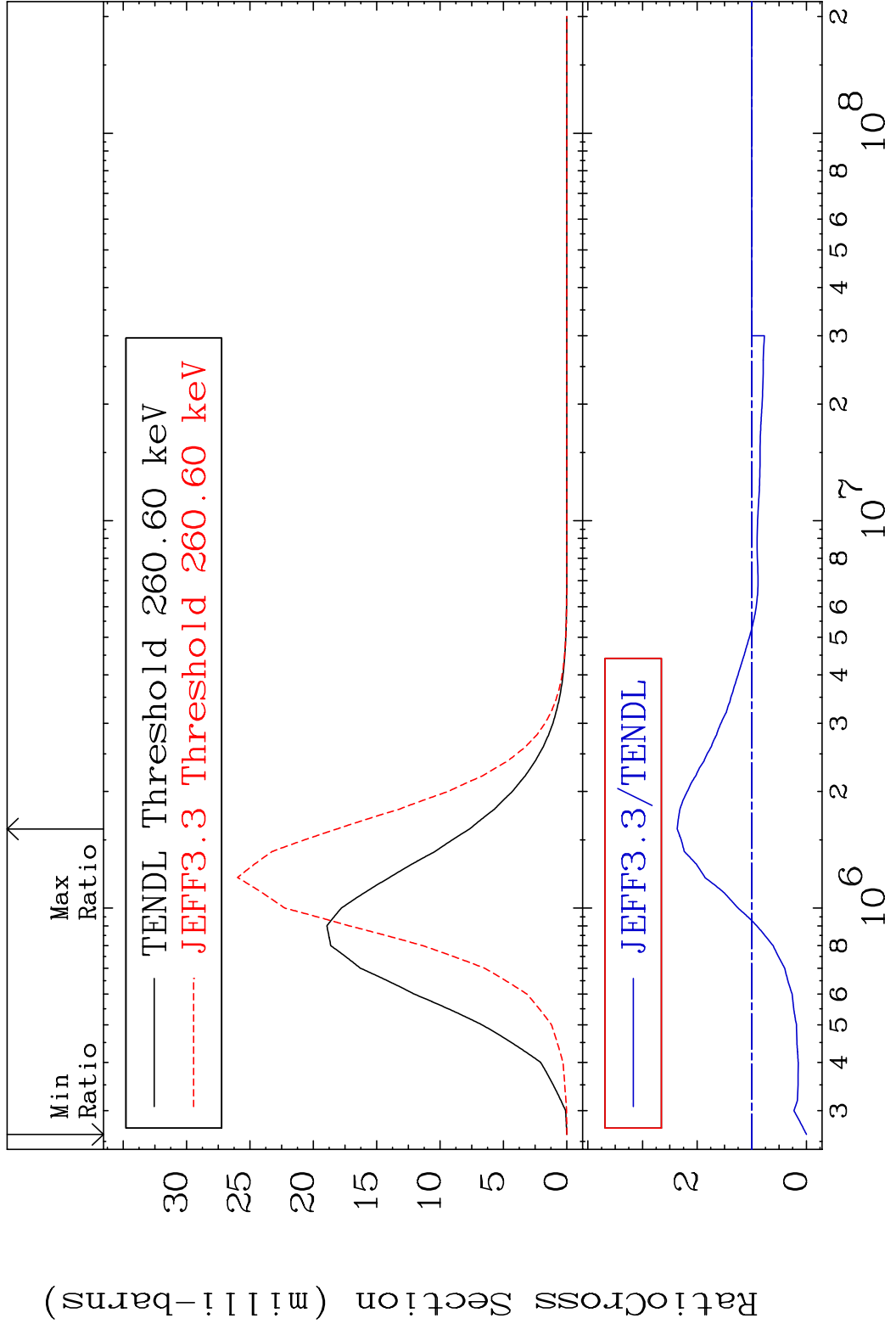
MAT 7034 MT= 57 (n, n') Level 70-Yb-171  
 Cross Section -23.03 To 99.78 %



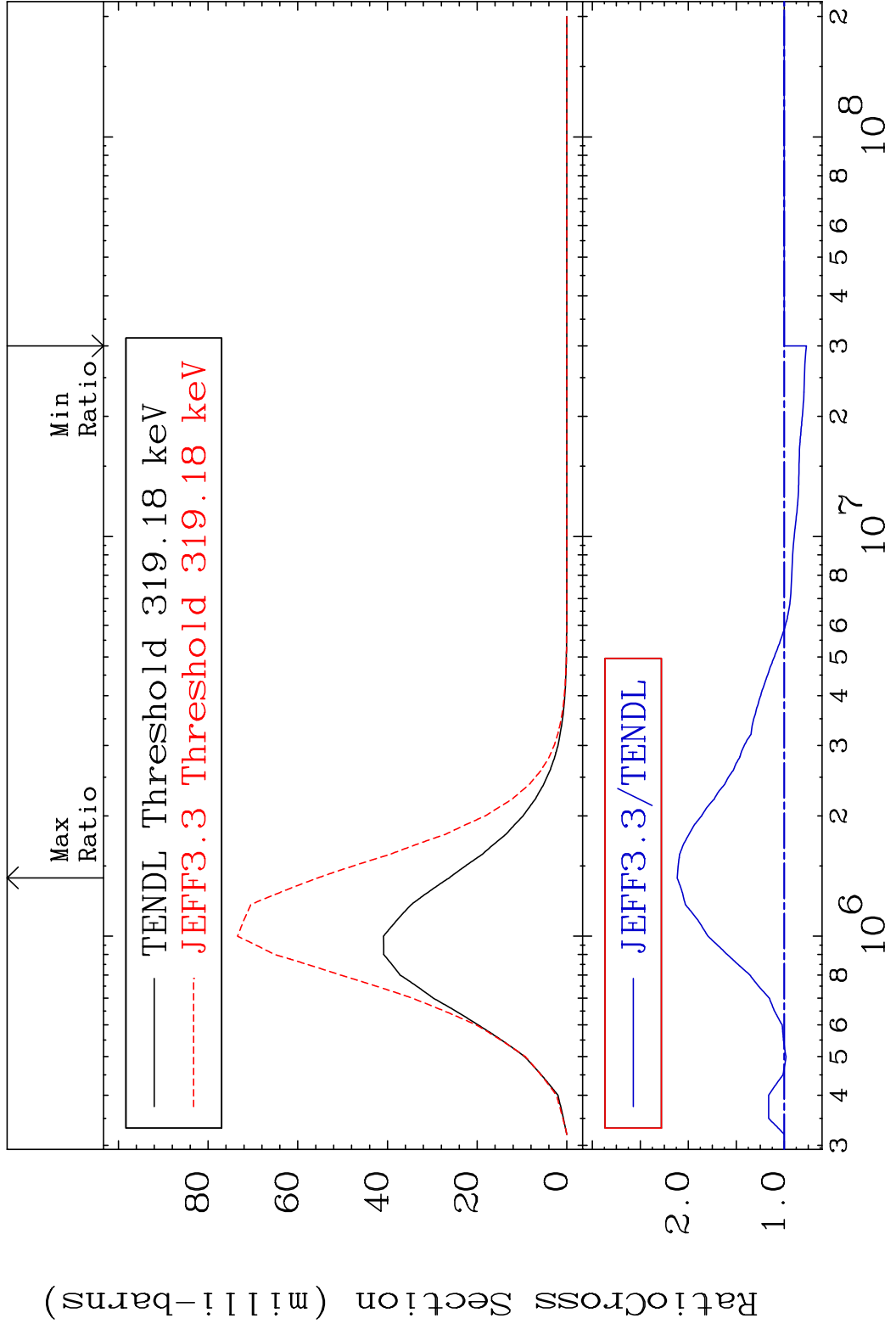
MAT 7034 MT= 58 (n, n') Level 70-Yb-171  
 Cross Section -23.03 To 120.6 %



MAT 7034 MT= 59 (n, n') Level 70-Yb-171  
 Cross Section -100.0 To 136.5 %



MAT 7034 MT= 60 (n, n') Level 70-Yb-171  
 Cross Section -23.02 To 111.6 %

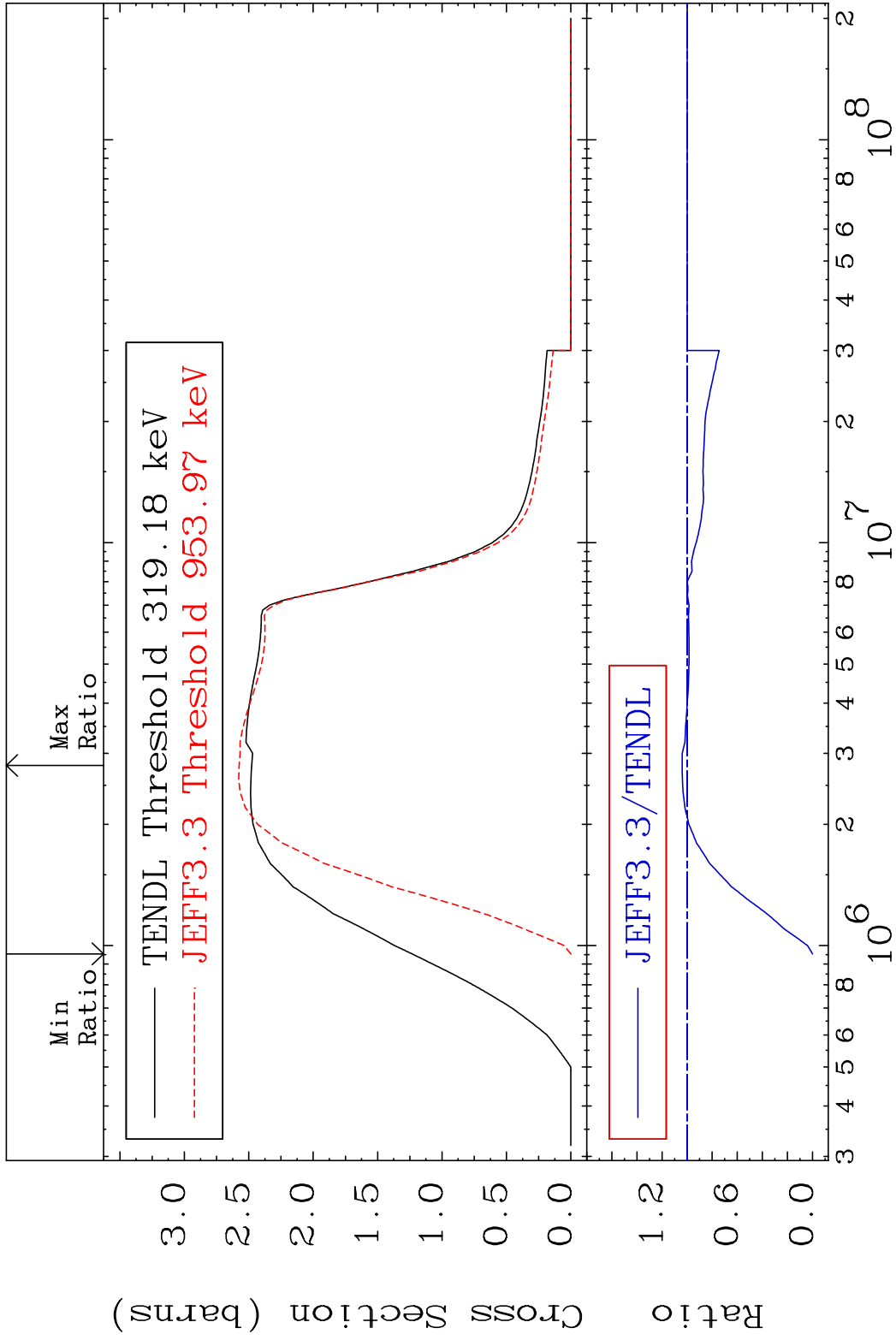


MAT 7034

(n, n') Continuum

70-Yb-171

Cross Section -100.0 To 3.946 %



31

Incident Energy (eV)

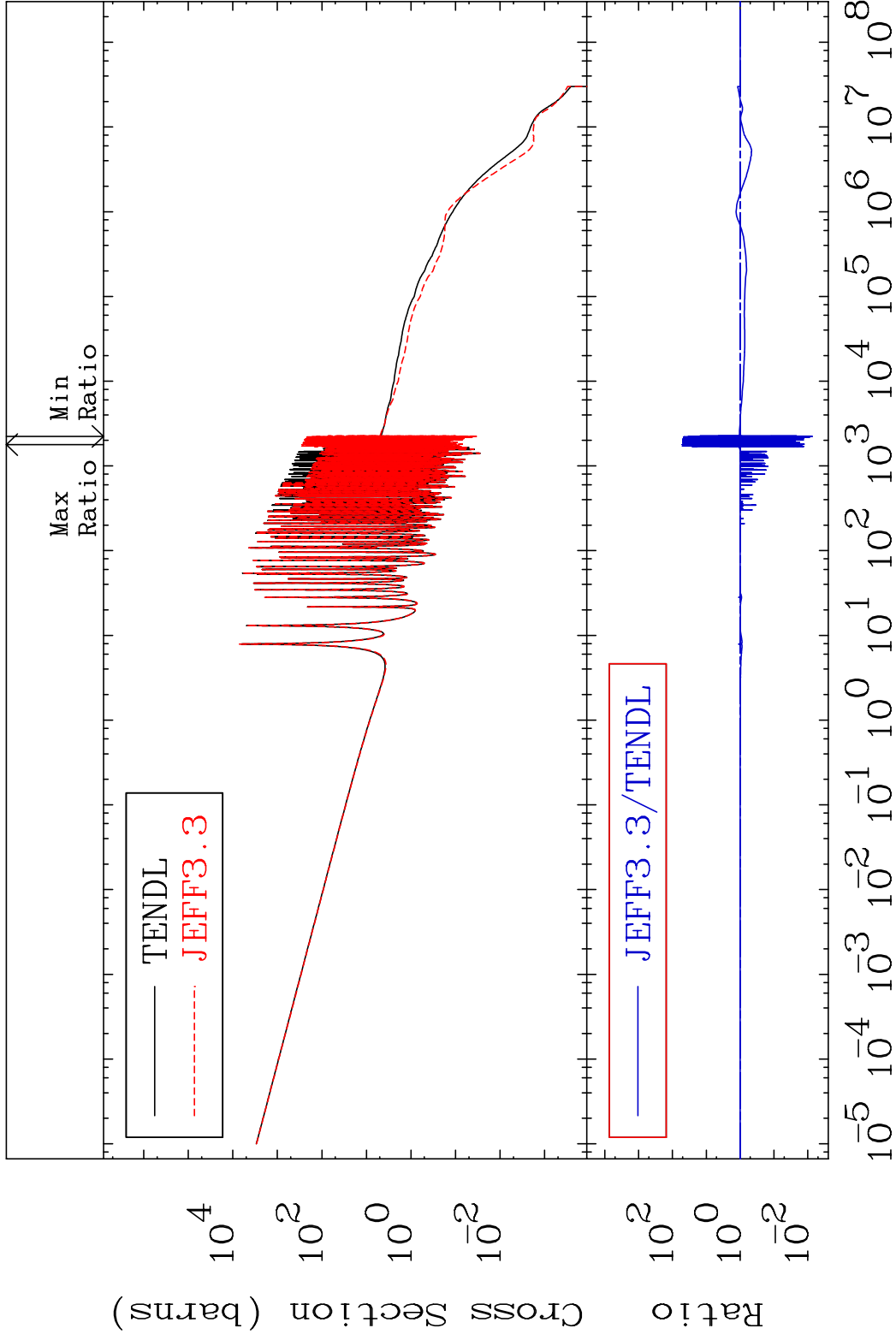
70-Yb-171

MAT 7034

70-Yb-171

(n,  $\gamma$ )

Cross Section -99.27 To 5075. %



32

Incident Energy (eV)

70-Yb-171

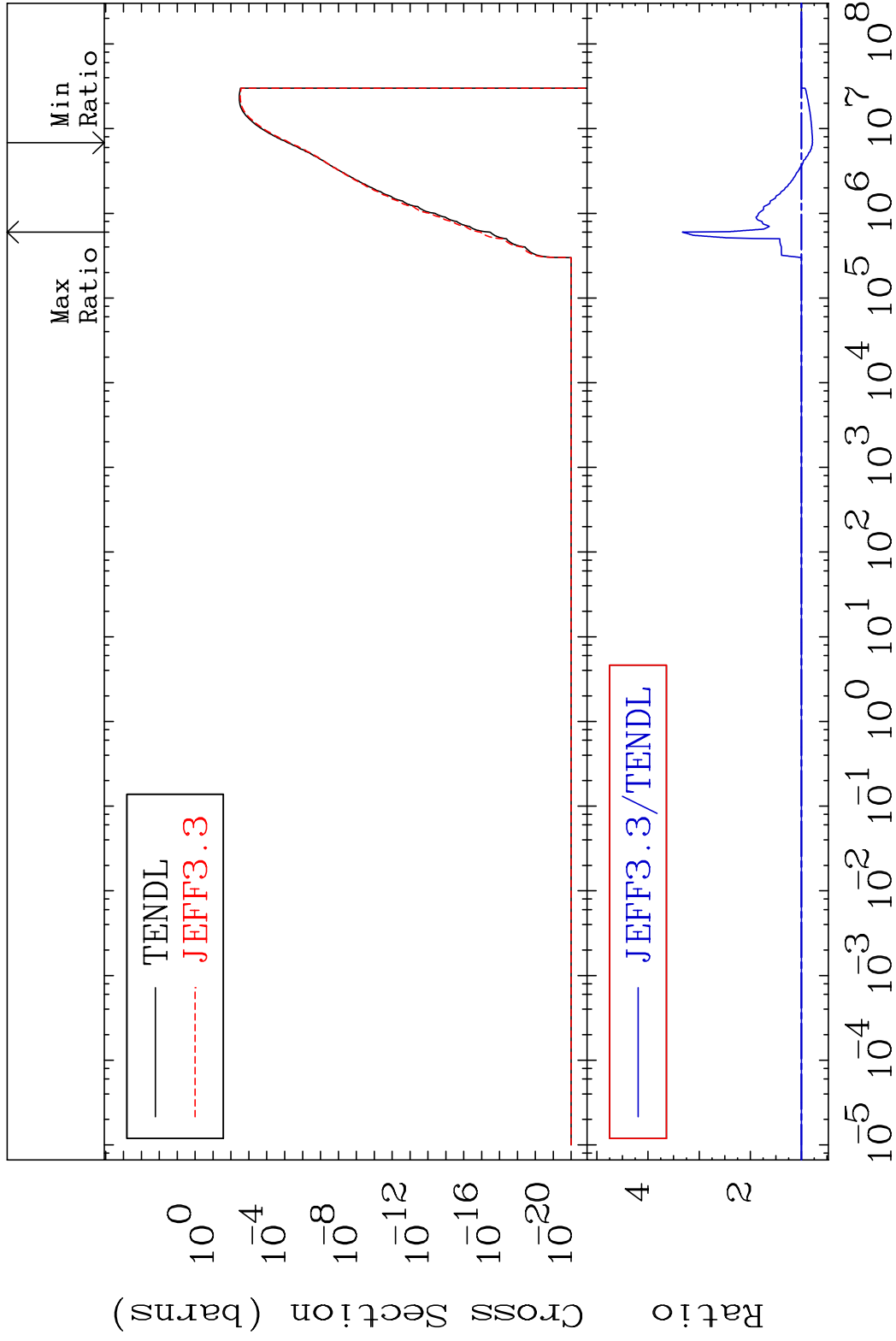
MAT 7034

(n, p)

70-Yb-171

Cross Section

-21.62 To 232.9 %

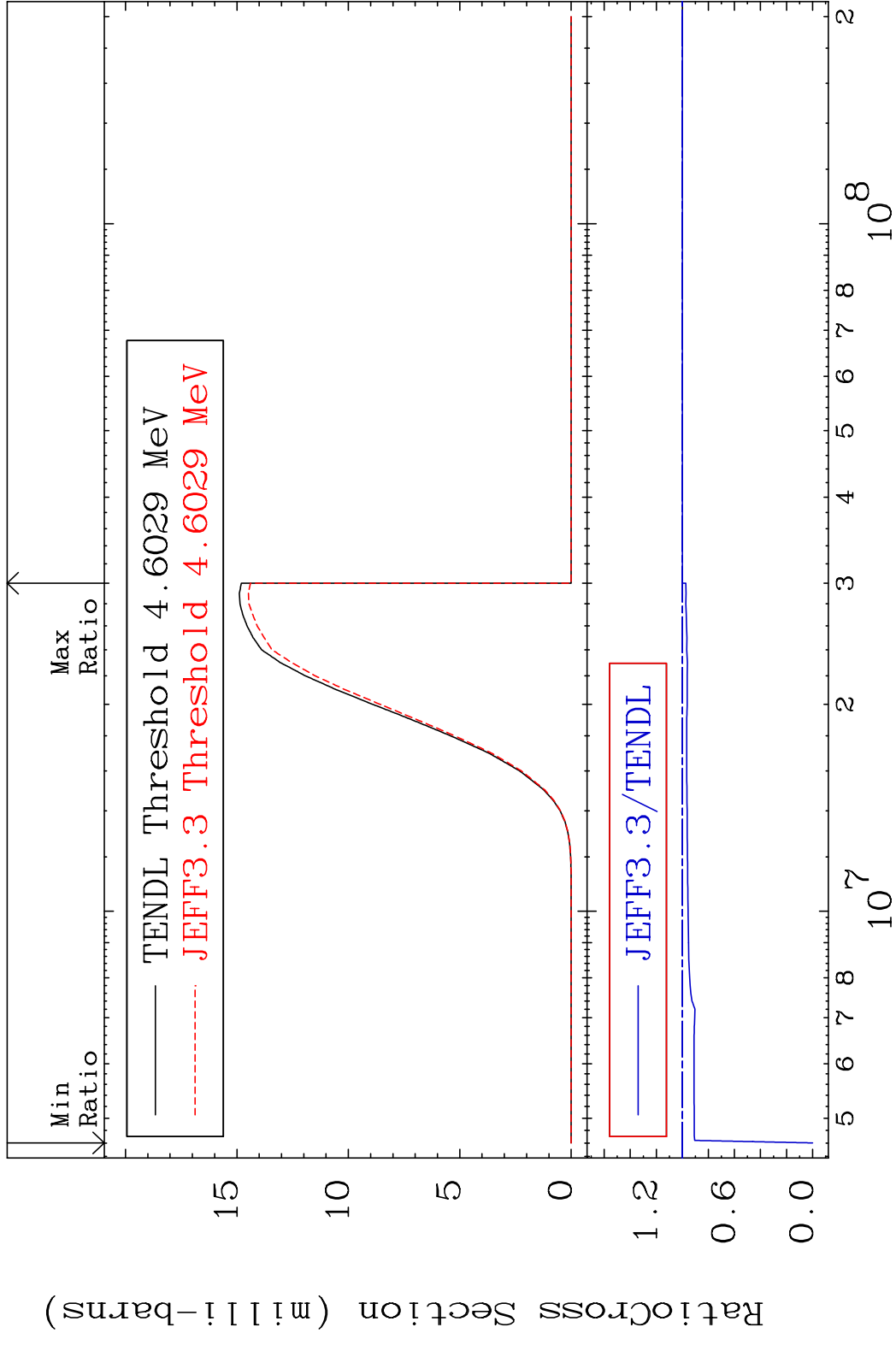


33

Incident Energy (eV)

70-Yb-171

MAT 7034 (n,d) 70-Yb-171  
 Cross Section -100.0 To 0.000 %

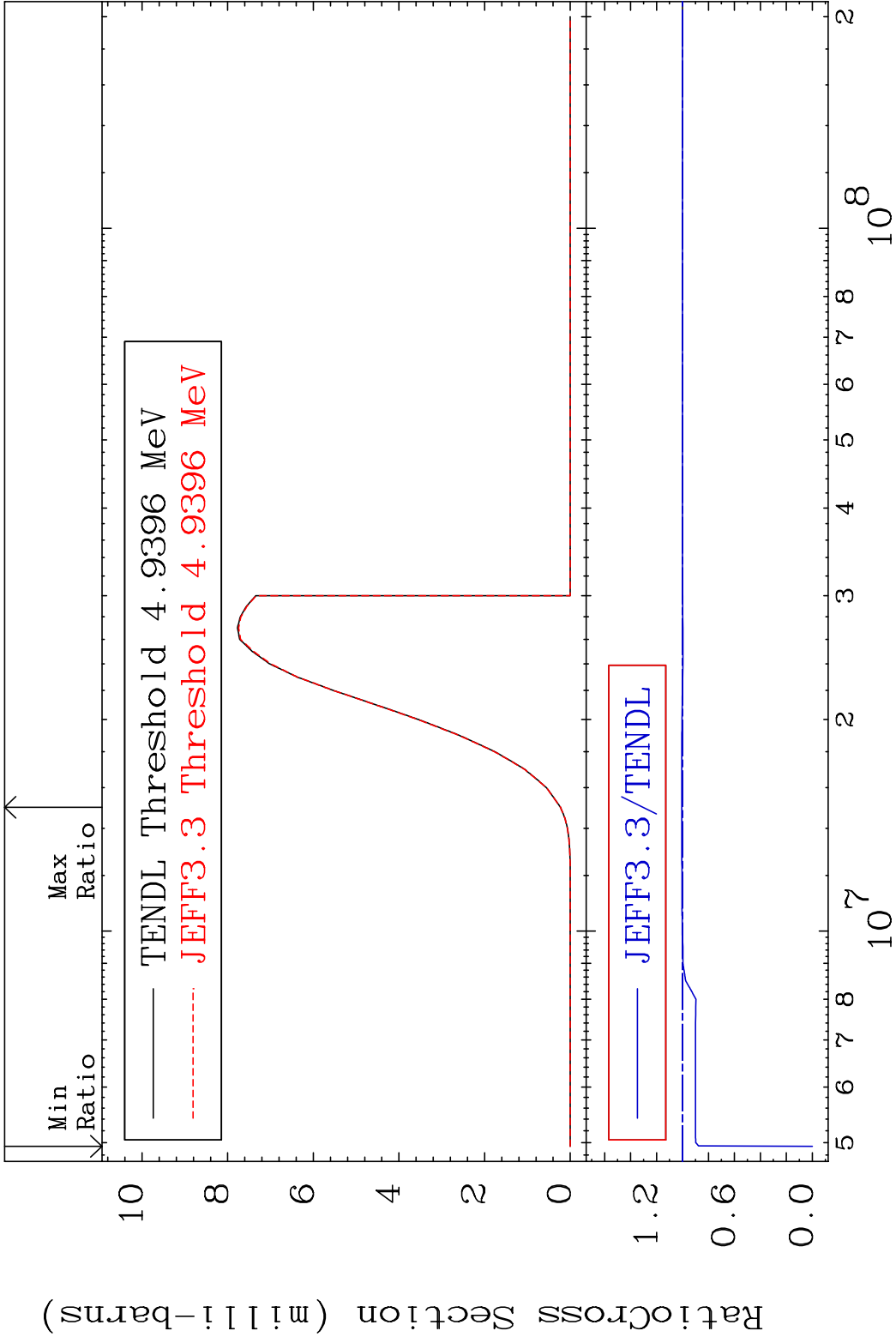


MAT 7034

(n, t)

70-Yb-171

Cross Section -100.0 To 0.586 %



35

Incident Energy (eV)

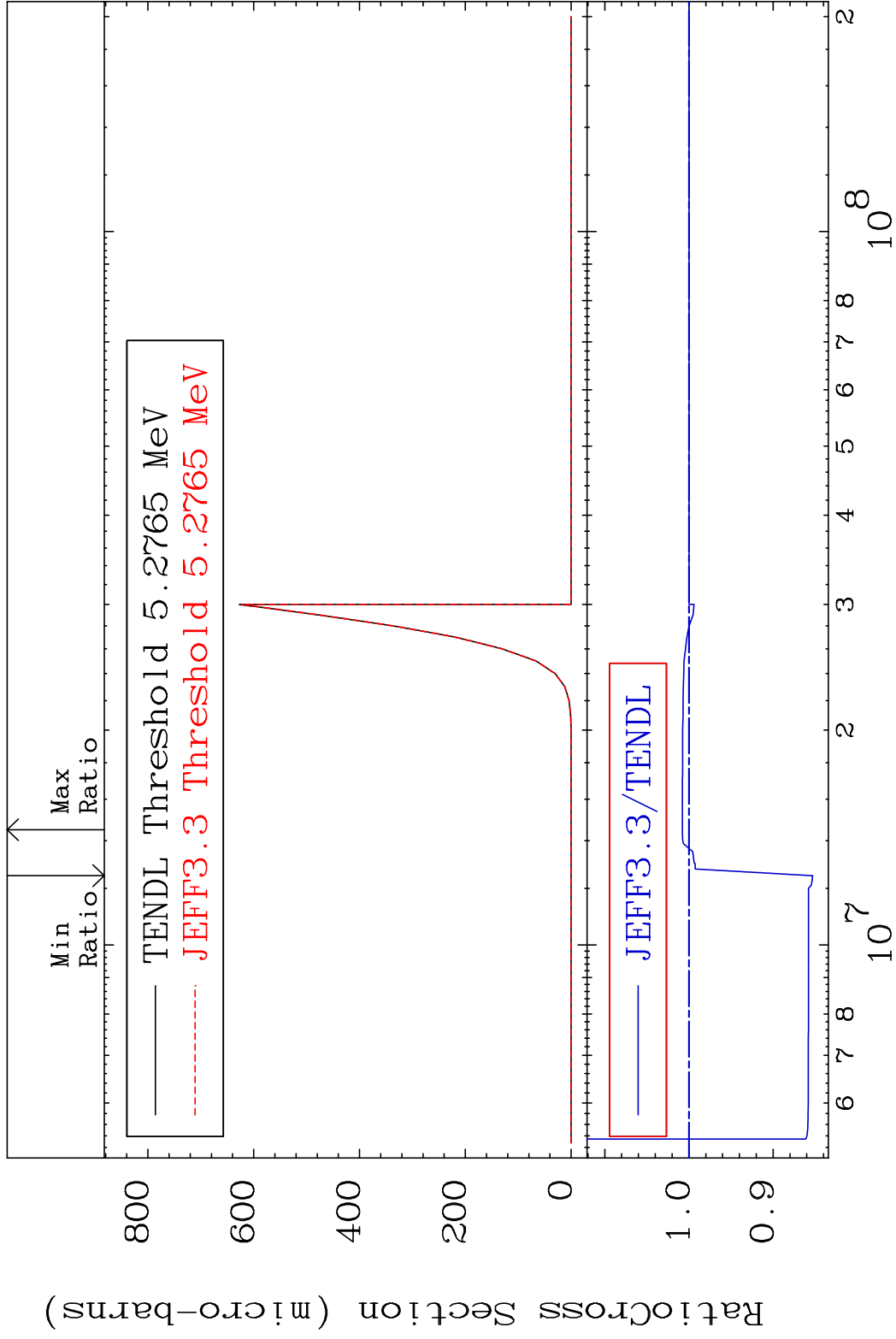
70-Yb-171

MAT 7034

(n, He-3)

70-Yb-171

Cross Section -14.69 To 0.783 %



36

Incident Energy (eV)

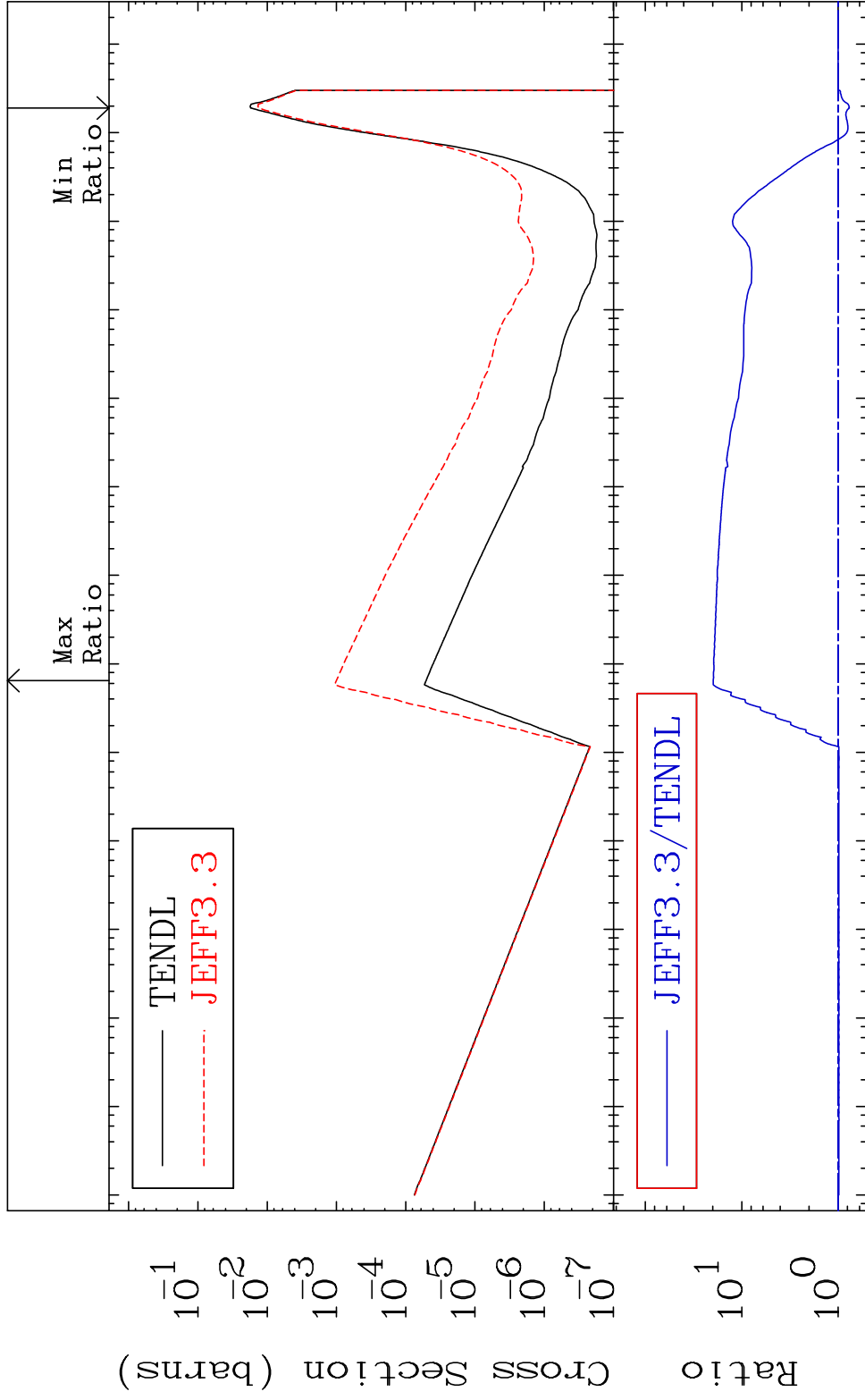
70-Yb-171

MAT 7034

(n,  $\alpha$ )

70-Yb-171

Cross Section -23.27 To 1878. %

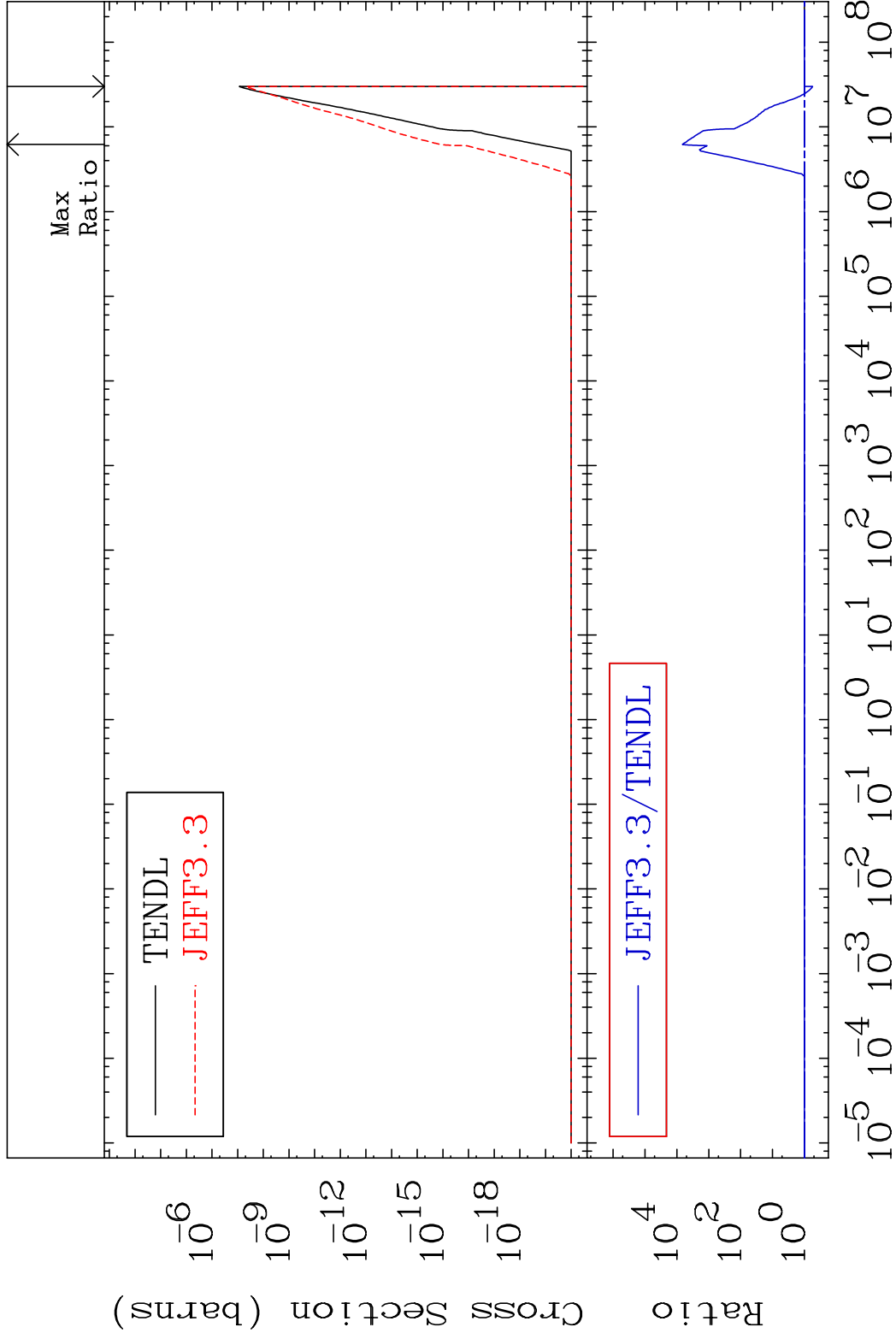


MAT 7034

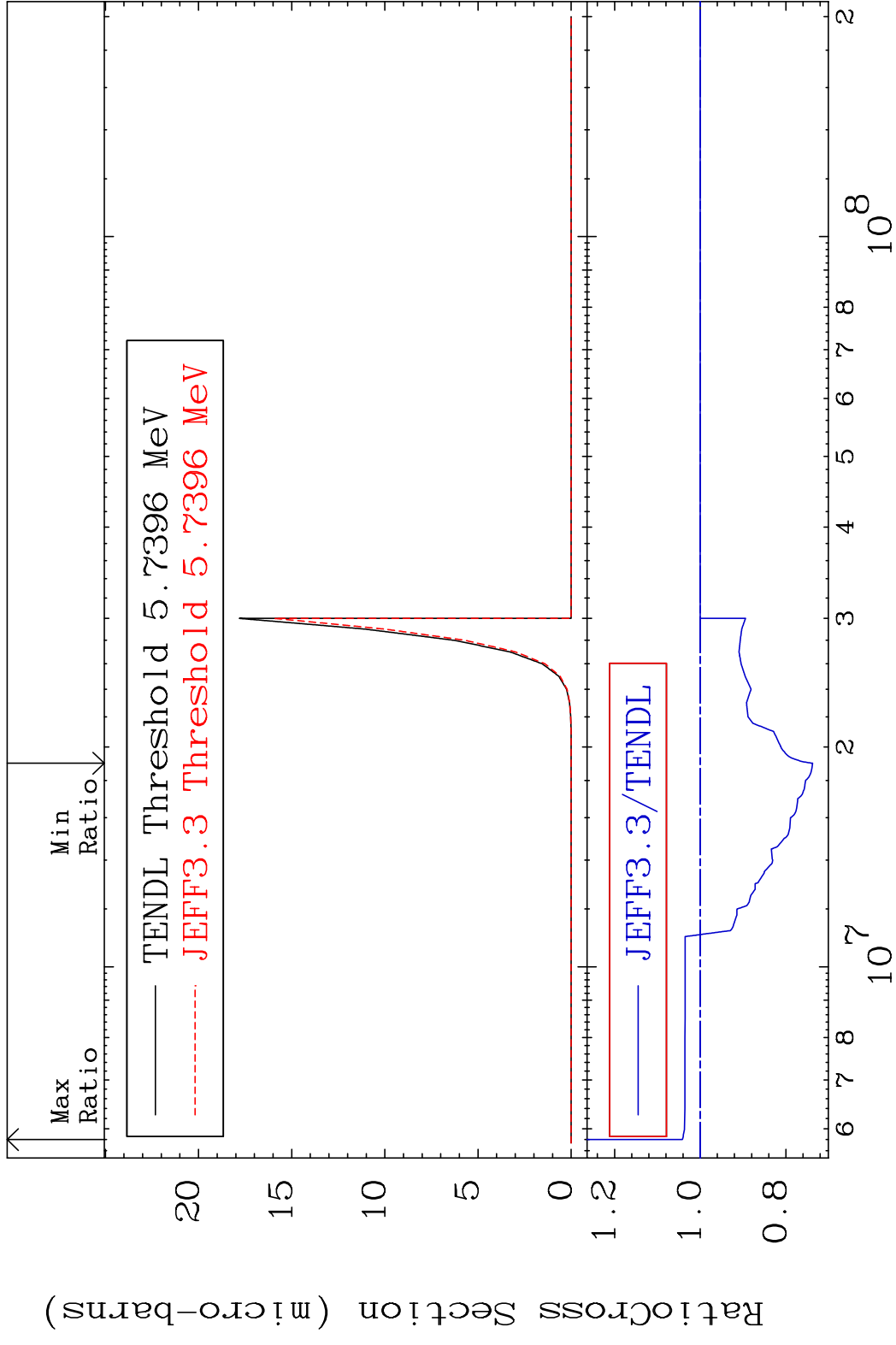
(n,2α)

70-Yb-171

Cross Section -44.44 To 9999. %



MAT 7034 (n,2p) 70-Yb-171  
 Cross Section -26.23 To 4.169 %

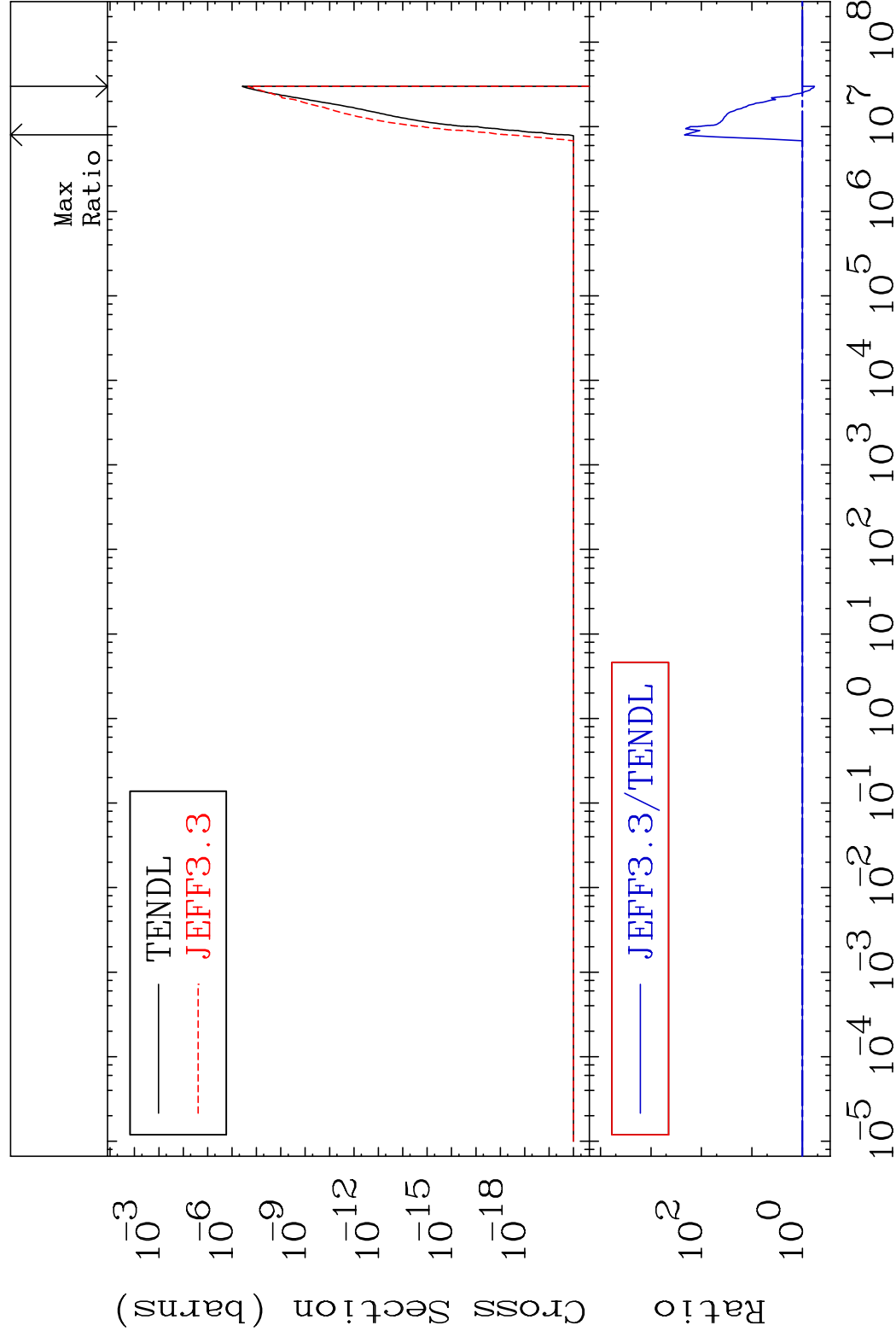


MAT 7034

(n,p)  $\alpha$

70-Yb-171

Cross Section -42.33 To 9999. %



40

Incident Energy (eV)

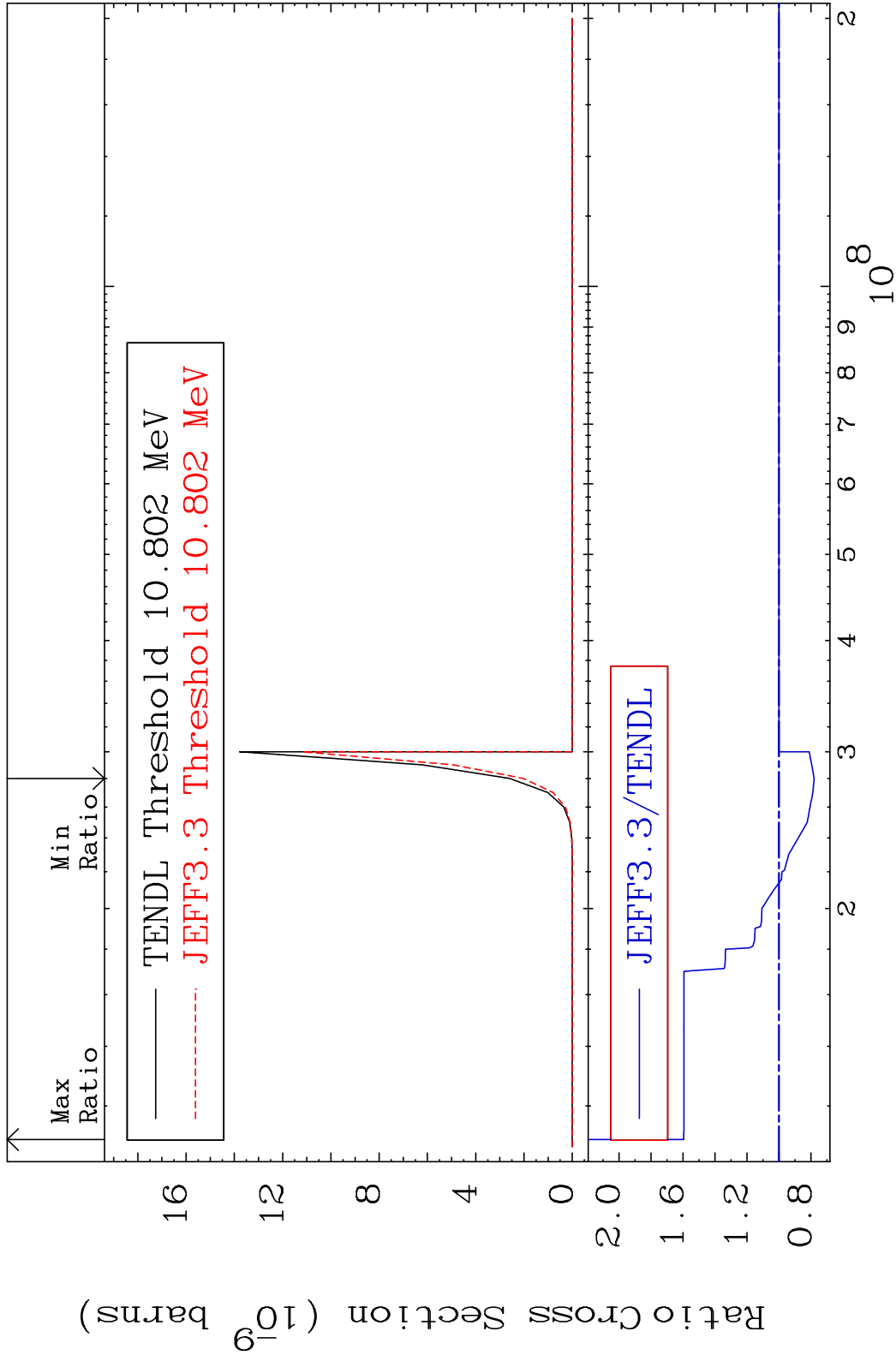
70-Yb-171

MAT 7034

(n,p) d

70-Yb-171

Cross Section -21.94 To 59.62 %



41

Incident Energy (eV)

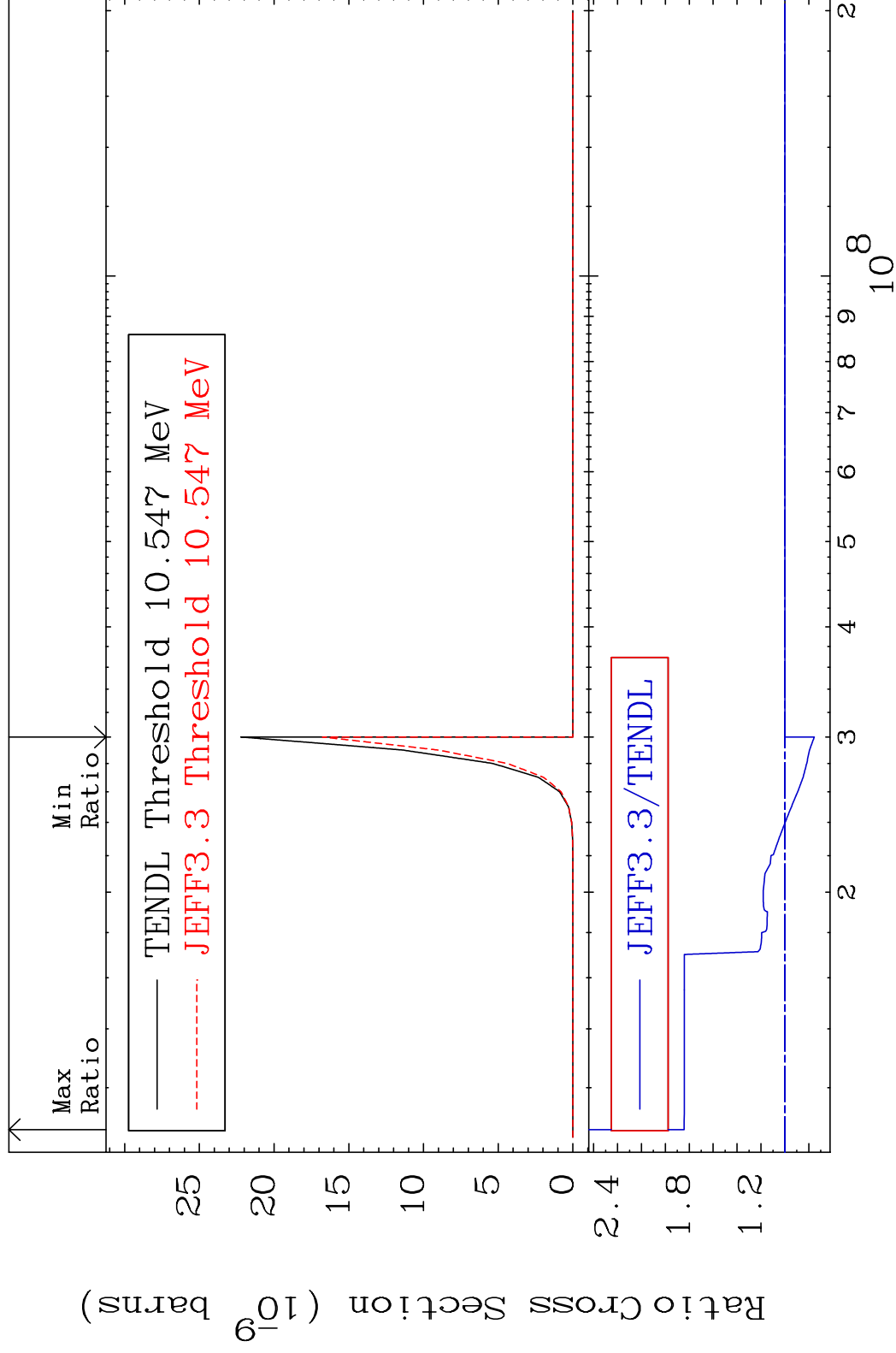
70-Yb-171

MAT 7034

(n,p) t

70-Yb-171

Cross Section -24.57 To 84.34 %



42

Incident Energy (eV)

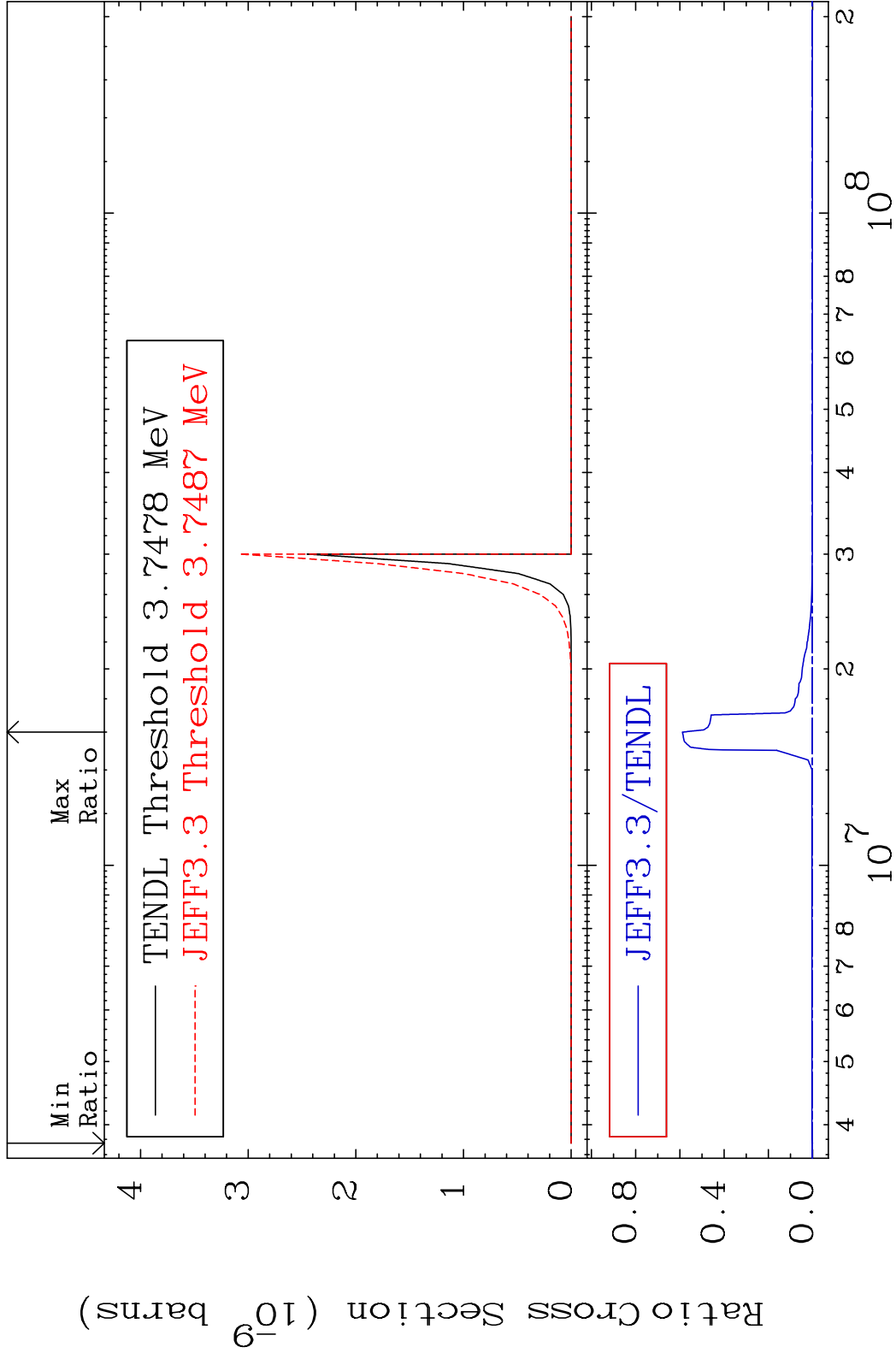
70-Yb-171

MAT 7034

(n,d)  $\alpha$

70-Yb-171

Cross Section -100.0 To 9999. %



43

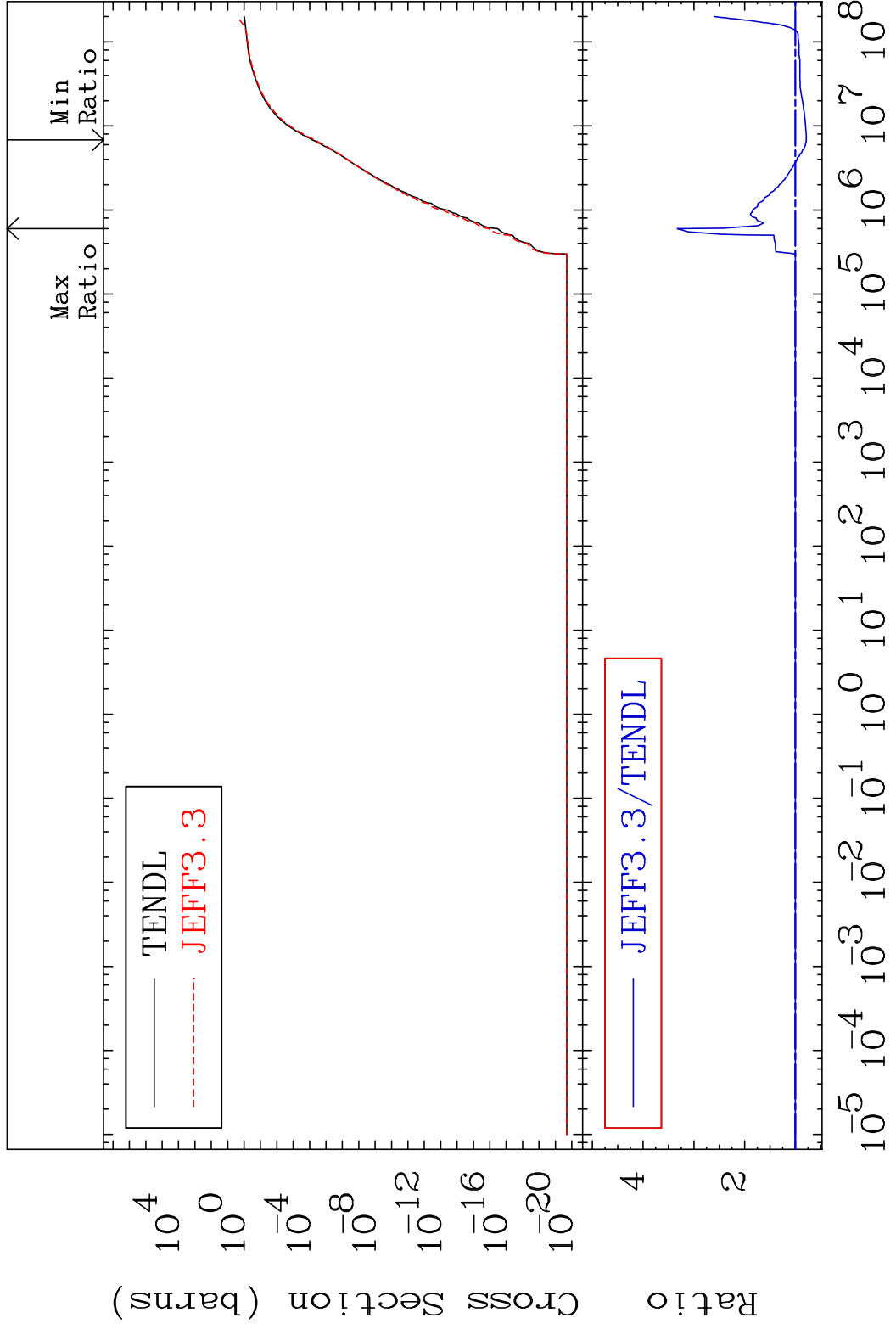
Incident Energy (eV)

70-Yb-171

MAT 7034

Hydrogen Production  
Cross Section -21.62 To 232.9 %

70-Yb-171

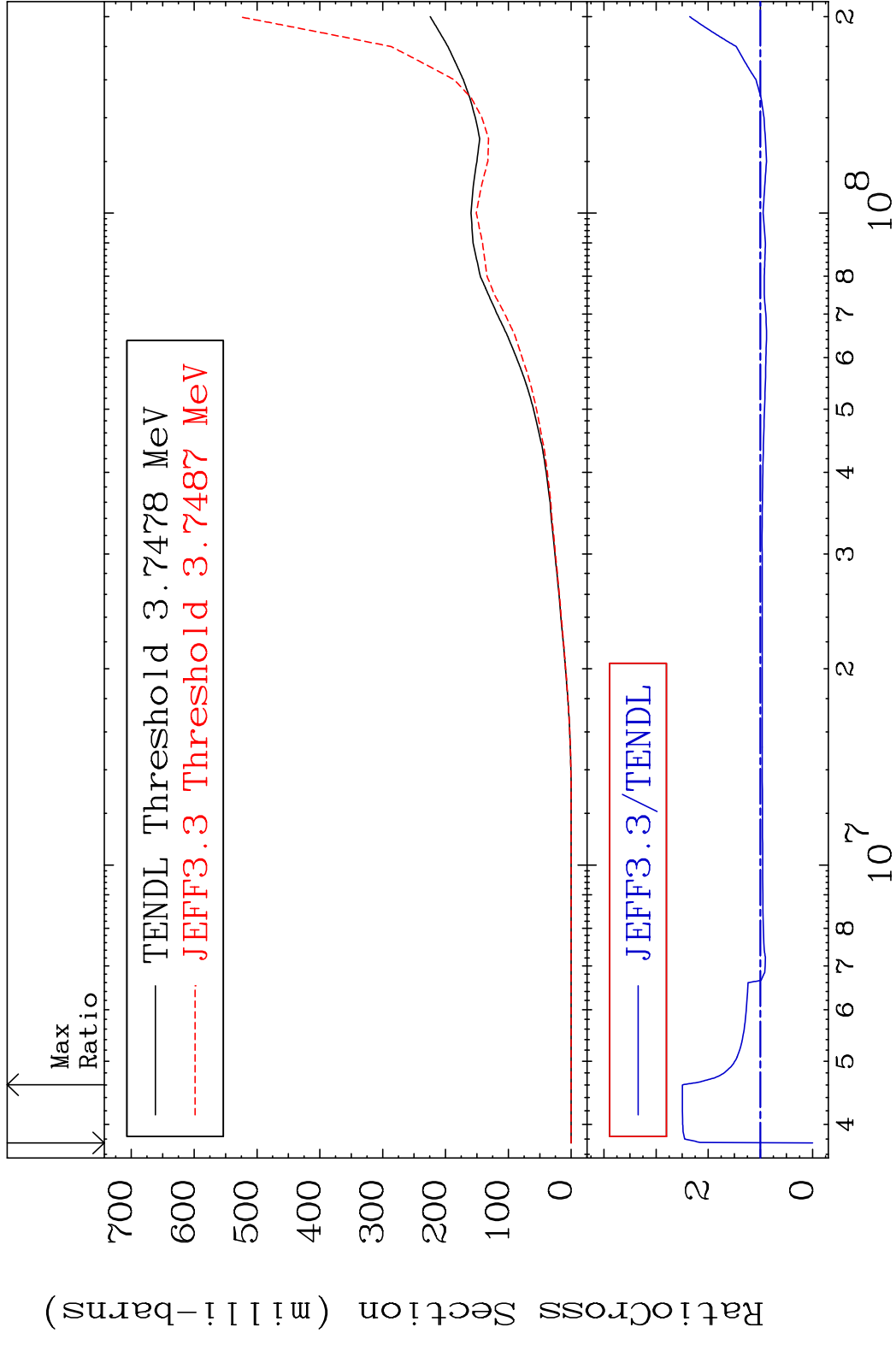


44

Incident Energy (eV)

70-Yb-171

MAT 7034 Deuterium Production 70-Yb-171  
 Cross Section -100.0 To 149.6 %



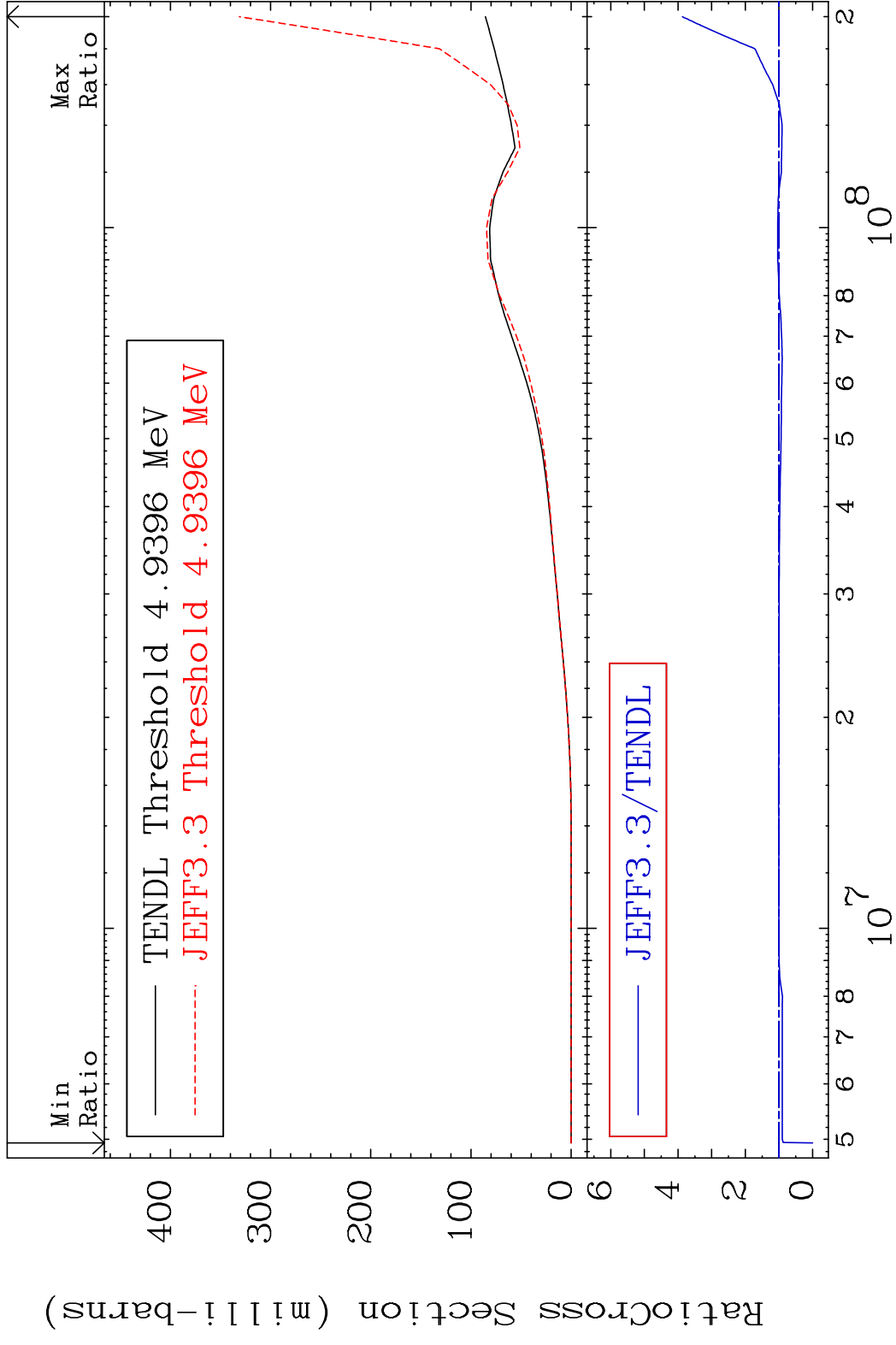
45 70-Yb-171

MAT 7034

Tritium Production

70-Yb-171

Cross Section -100.0 To 287.2 %



46

Incident Energy (eV)

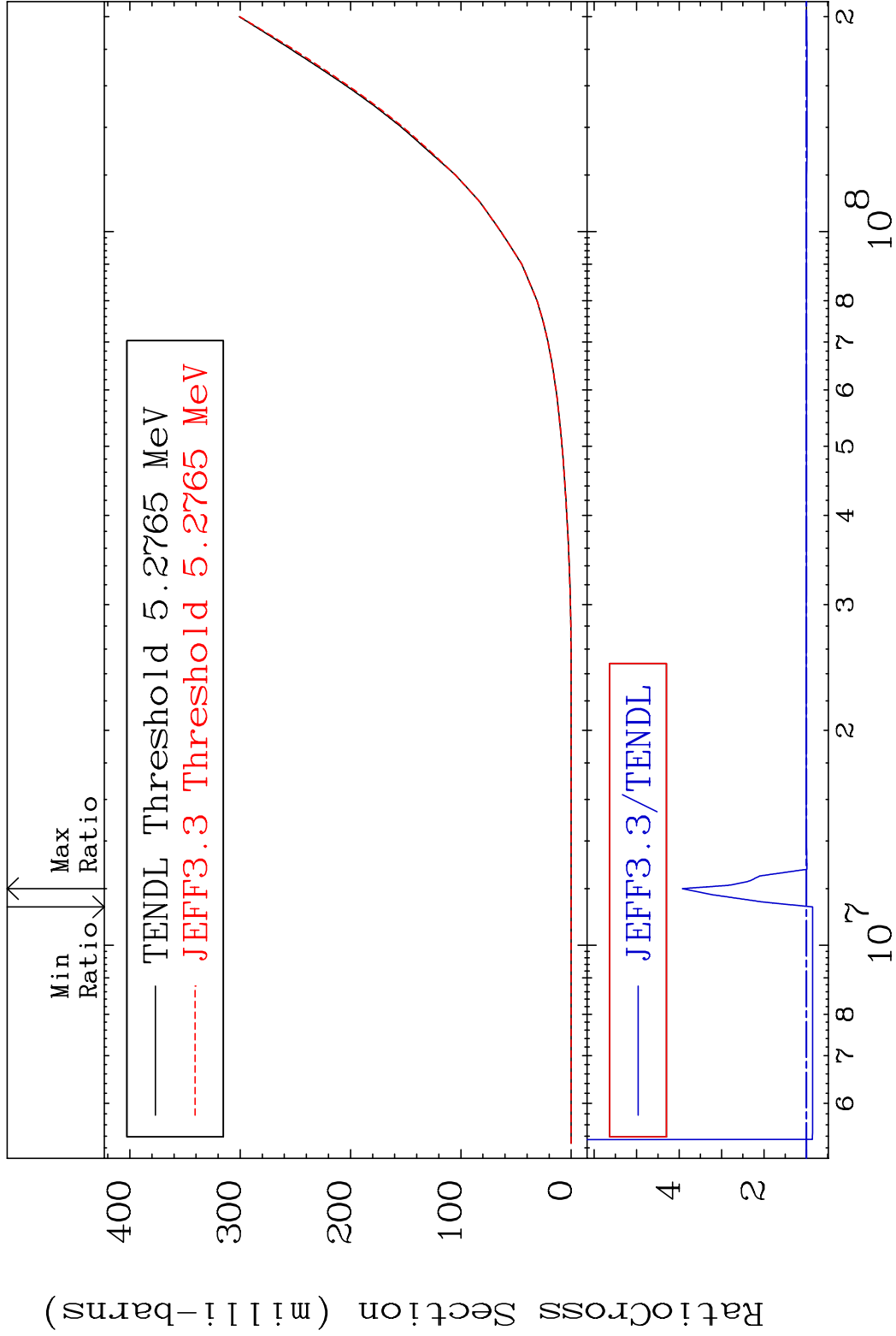
70-Yb-171

MAT 7034

He-3 Production

70-Yb-171

Cross Section -14.20 To 292.4 %



47

Incident Energy (eV)

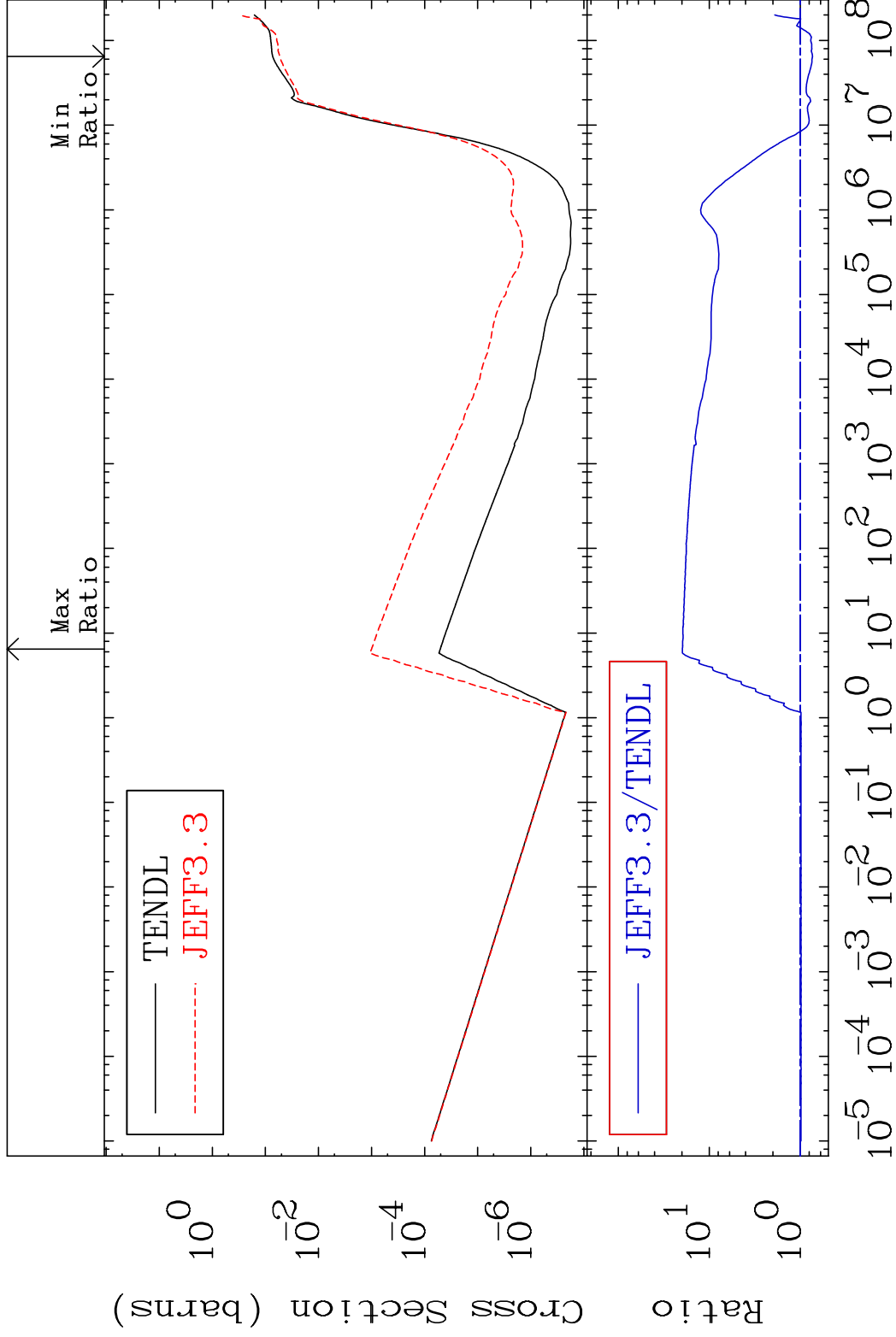
70-Yb-171

MAT 7034

He-4 Production

70-Yb-171

Cross Section -26.51 To 1878. %

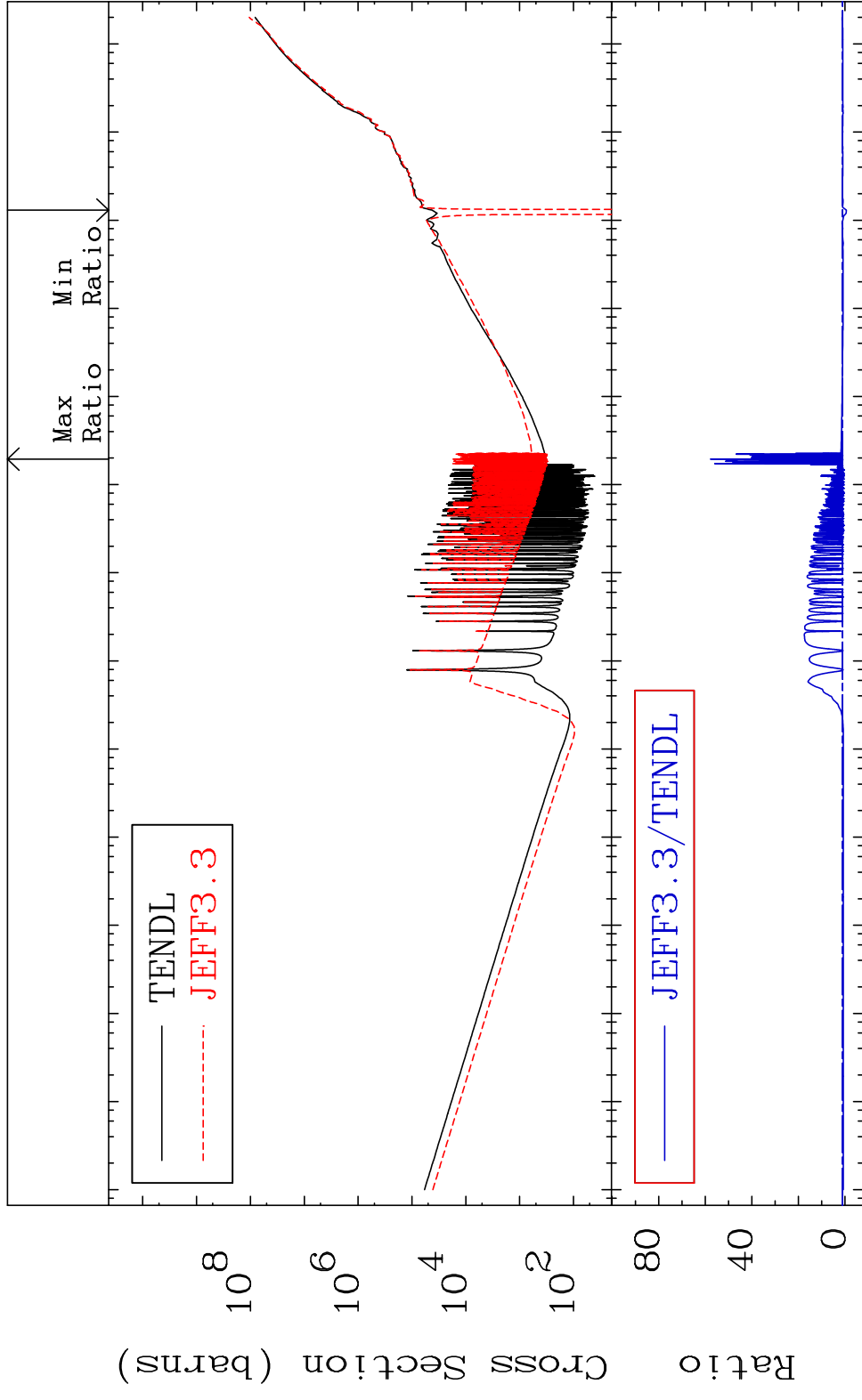


48

Incident Energy (eV)

70-Yb-171

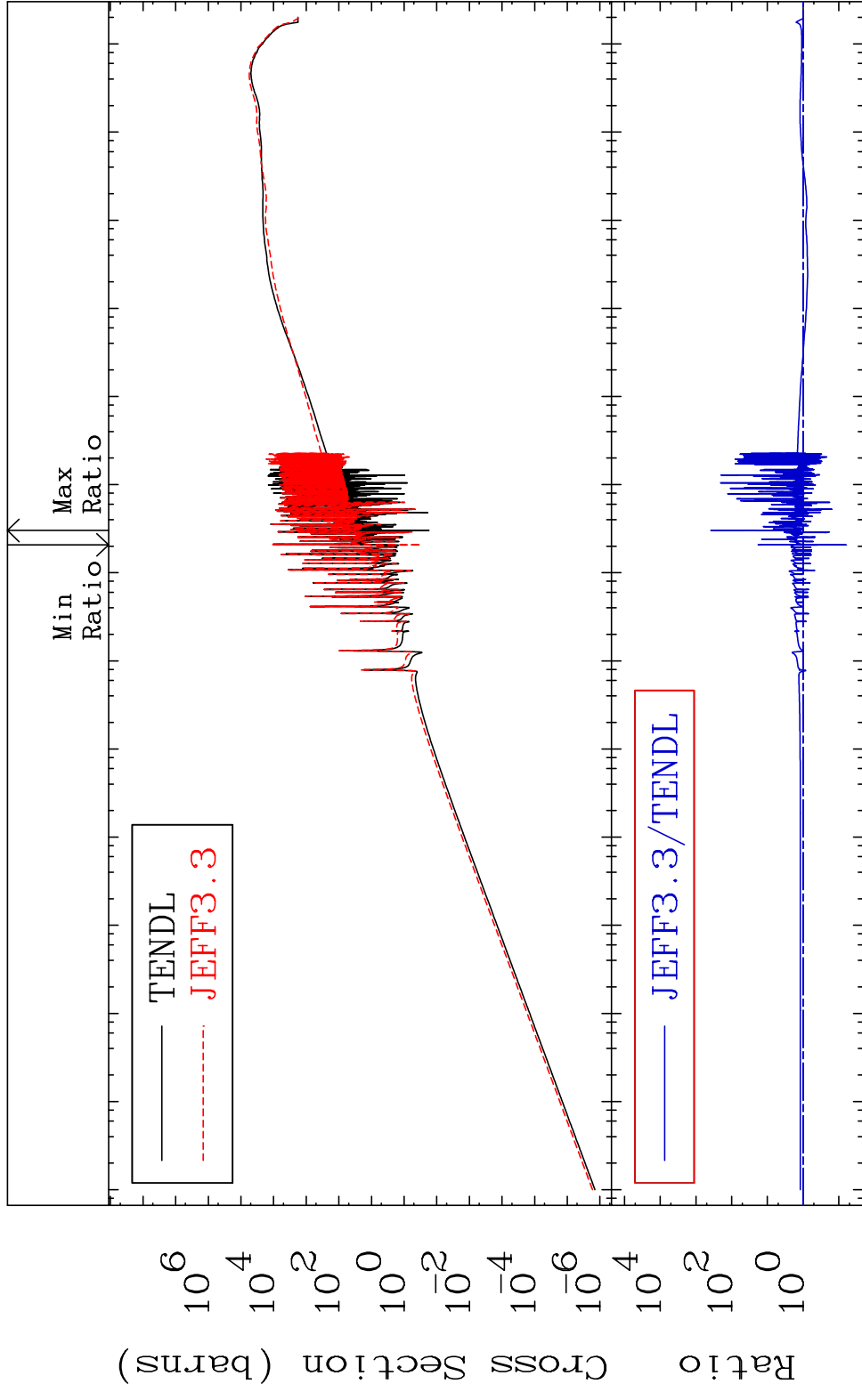
MAT 7034 Kerma total (eV-barns) 70-Yb-171  
Cross Section -156.4 To 5665. %



49 Incident Energy (eV) 70-Yb-171

MAT 7034

Kerma elastic Cross Section -93.85 To 9999. %  
70-Yb-171



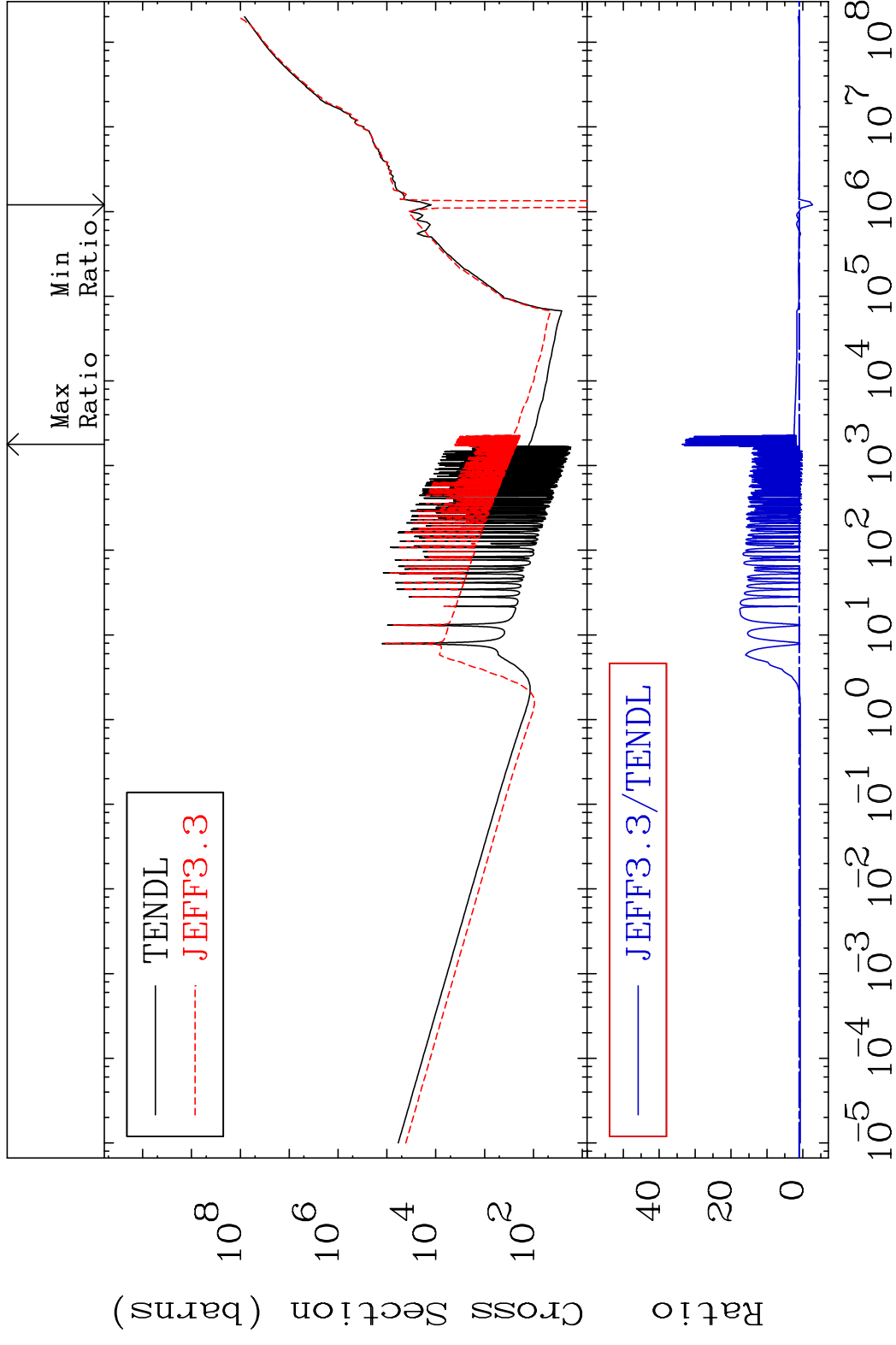
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

50

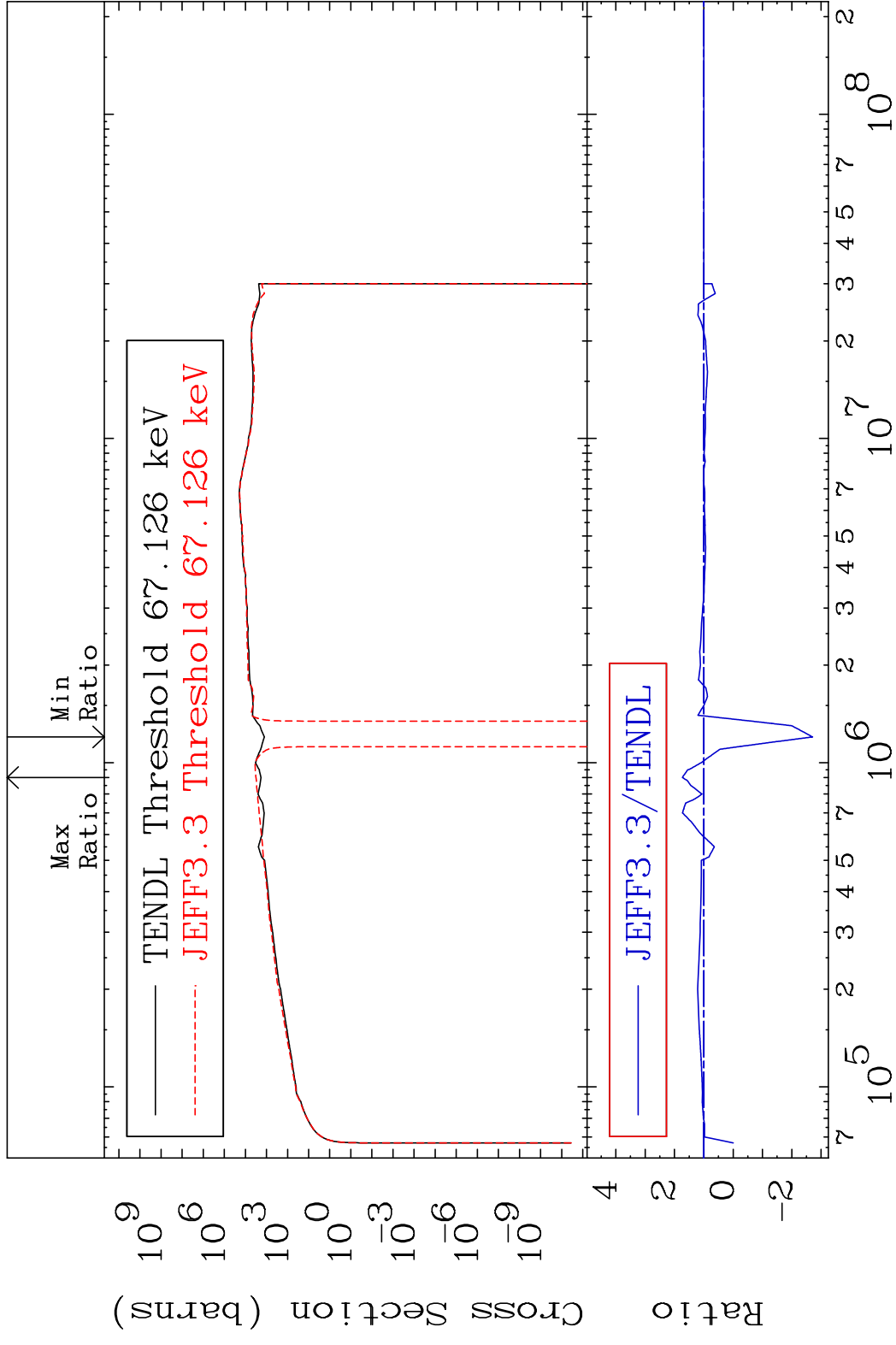
Incident Energy (eV)

70-Yb-171

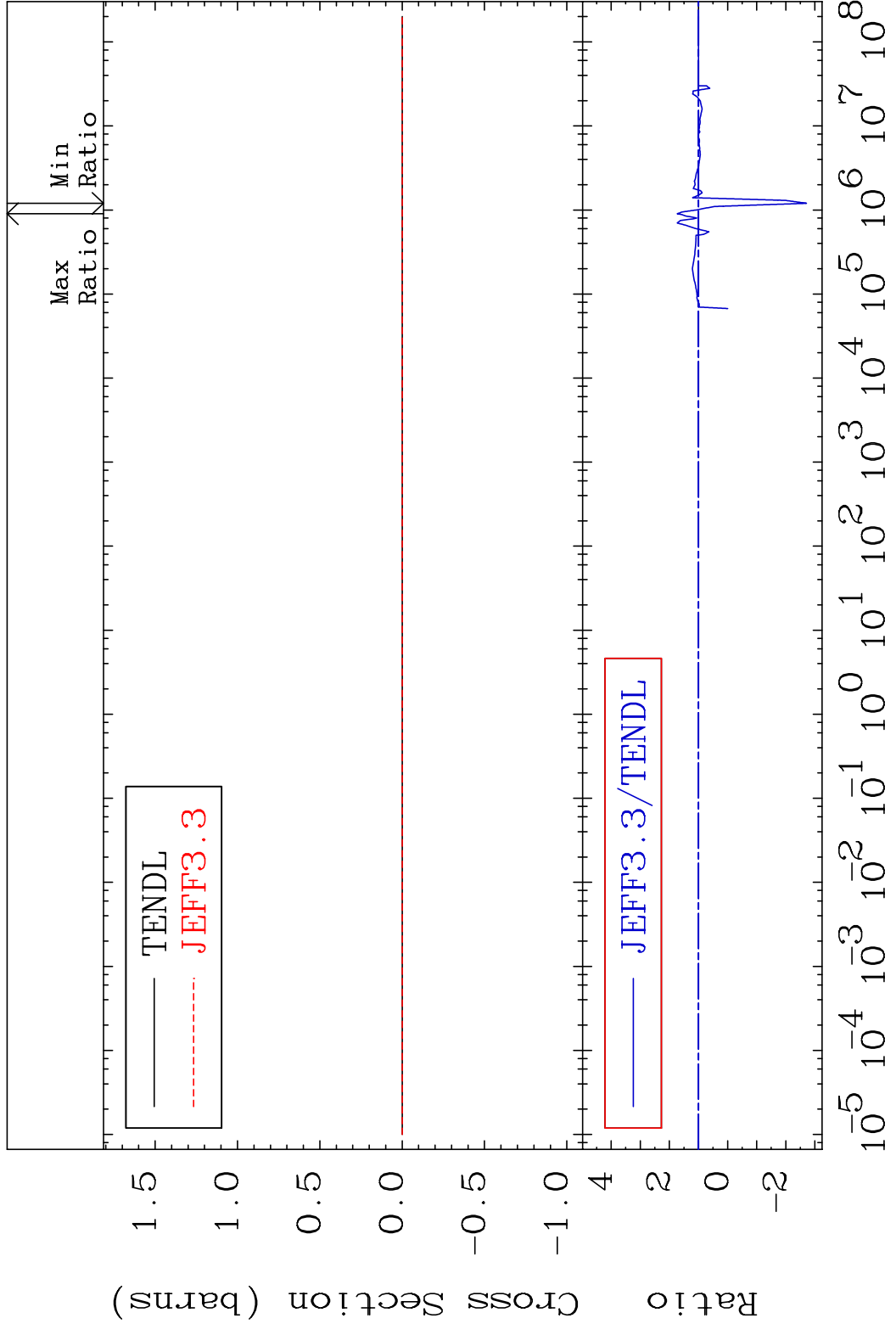
MAT 7034 Kerma non-elastic (all but mt2) 70-Yb-171  
 Cross Section -370.6 To 3254. %



MAT 7034 Kerma inelastic (mt51-91) 70-Yb-171  
 Cross Section -370.8 To 73.15 %



MAT 7034 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-171  
 Cross Section -370.8 To 73.15 %

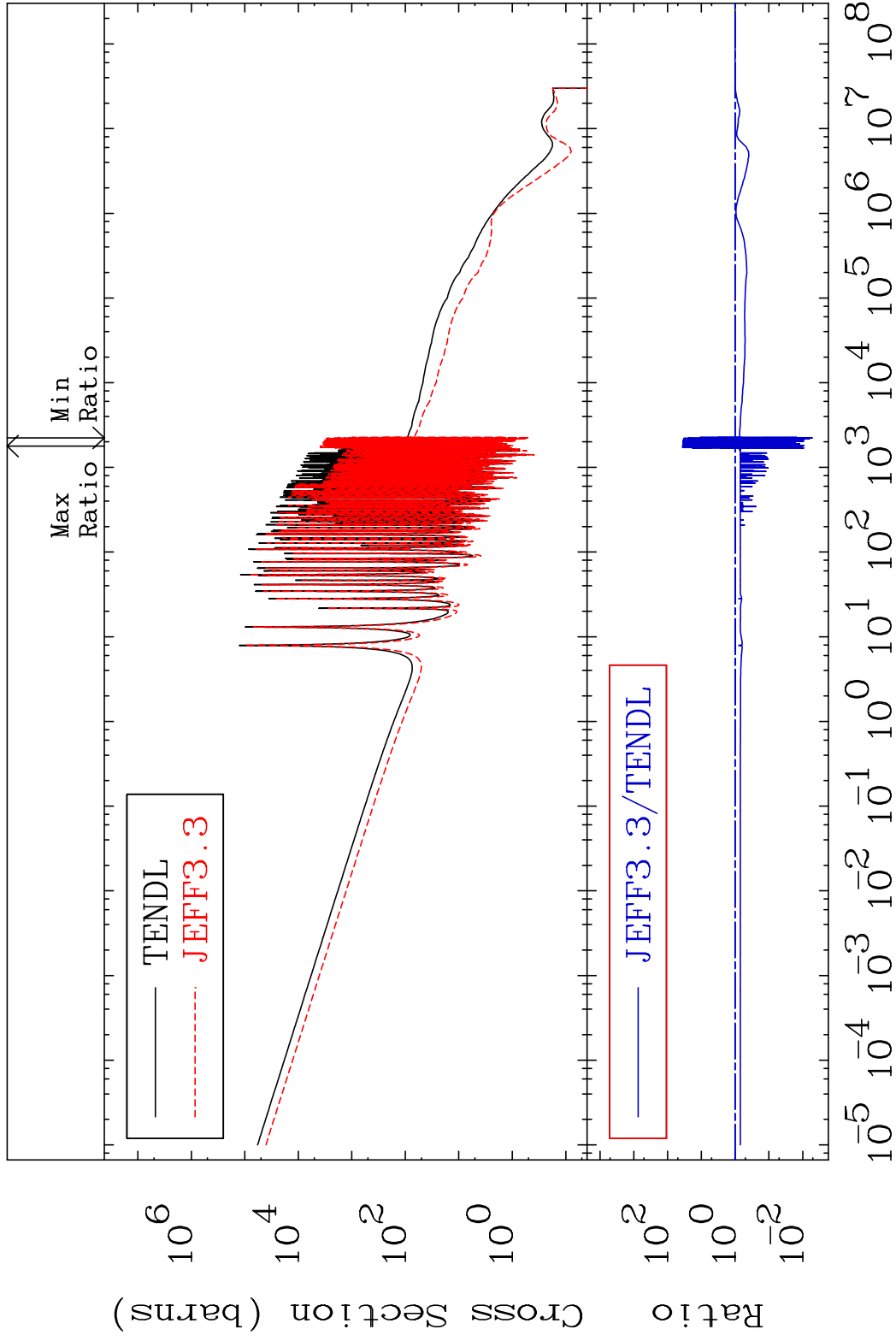


MAT 7034

Kerma capture (mt102)

70-Yb-171

Cross Section -99.49 To 3546. %



54

Incident Energy (eV)

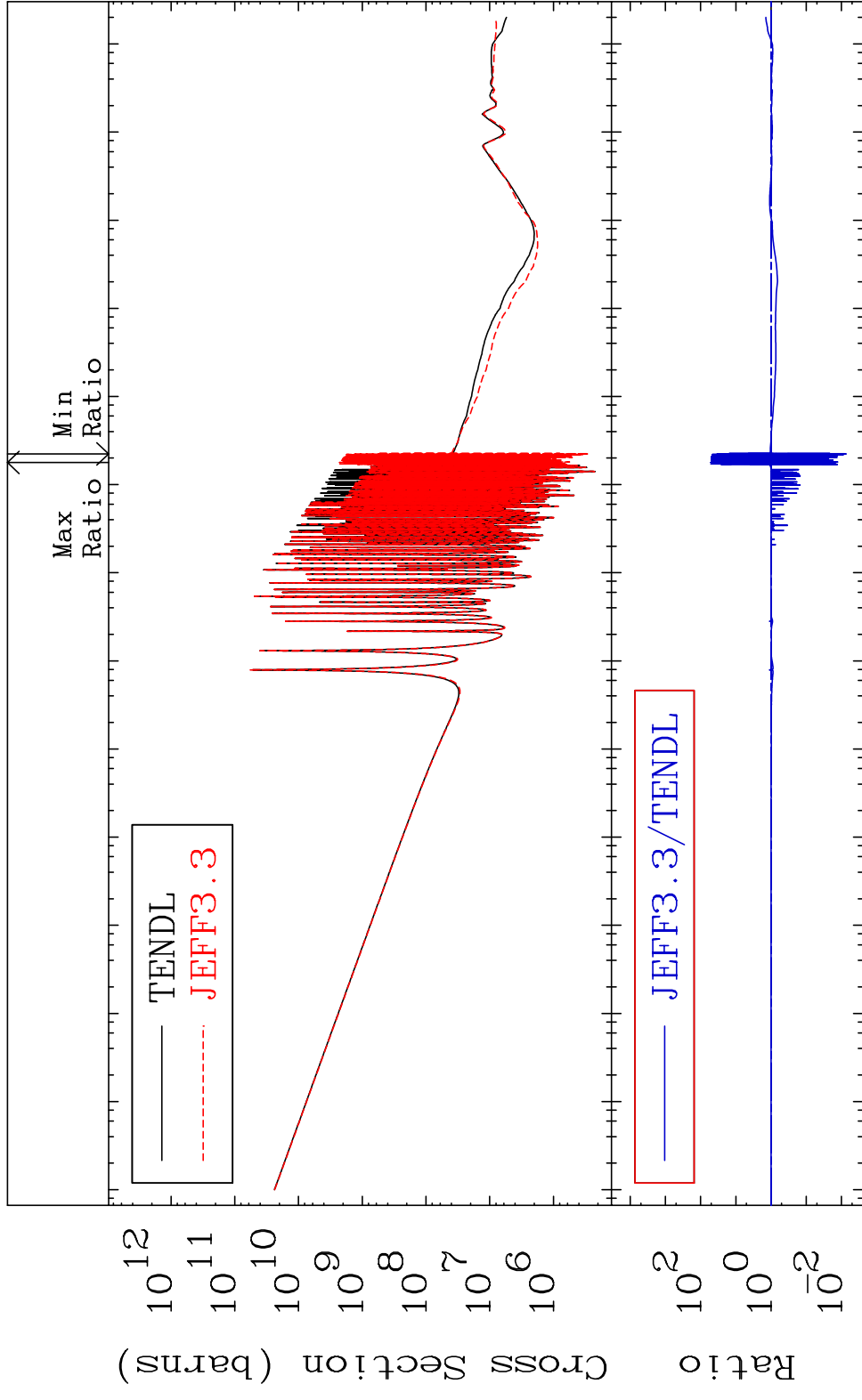
70-Yb-171

MAT 7034

Total photon (eV-barns)

70-Yb-171

Cross Section -99.27 To 5074. %

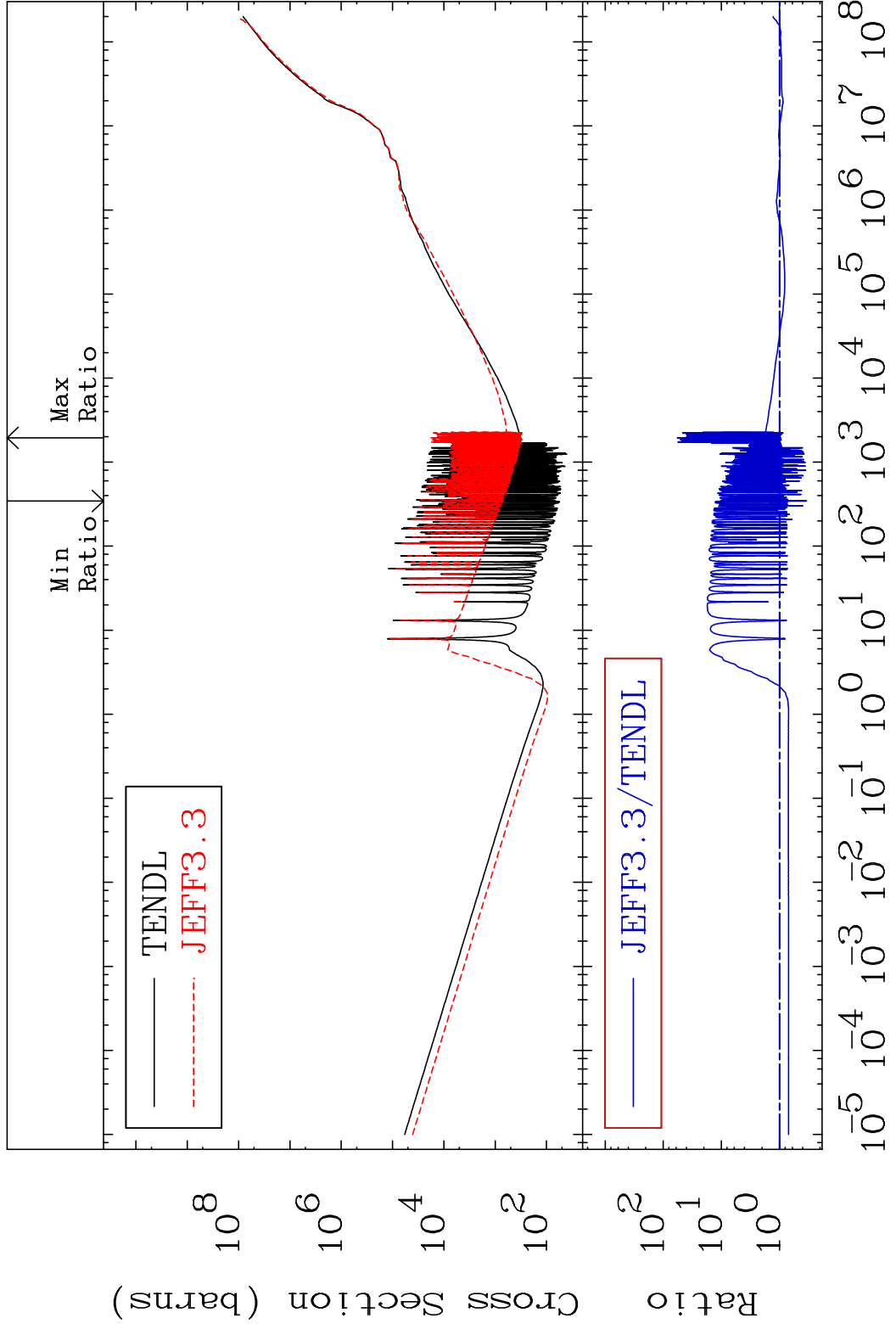


55

Incident Energy (eV)

70-Yb-171

MAT 7034 Total kinematic kerma (high limit) 70-Yb-171  
 Cross Section -65.59 To 5664. %

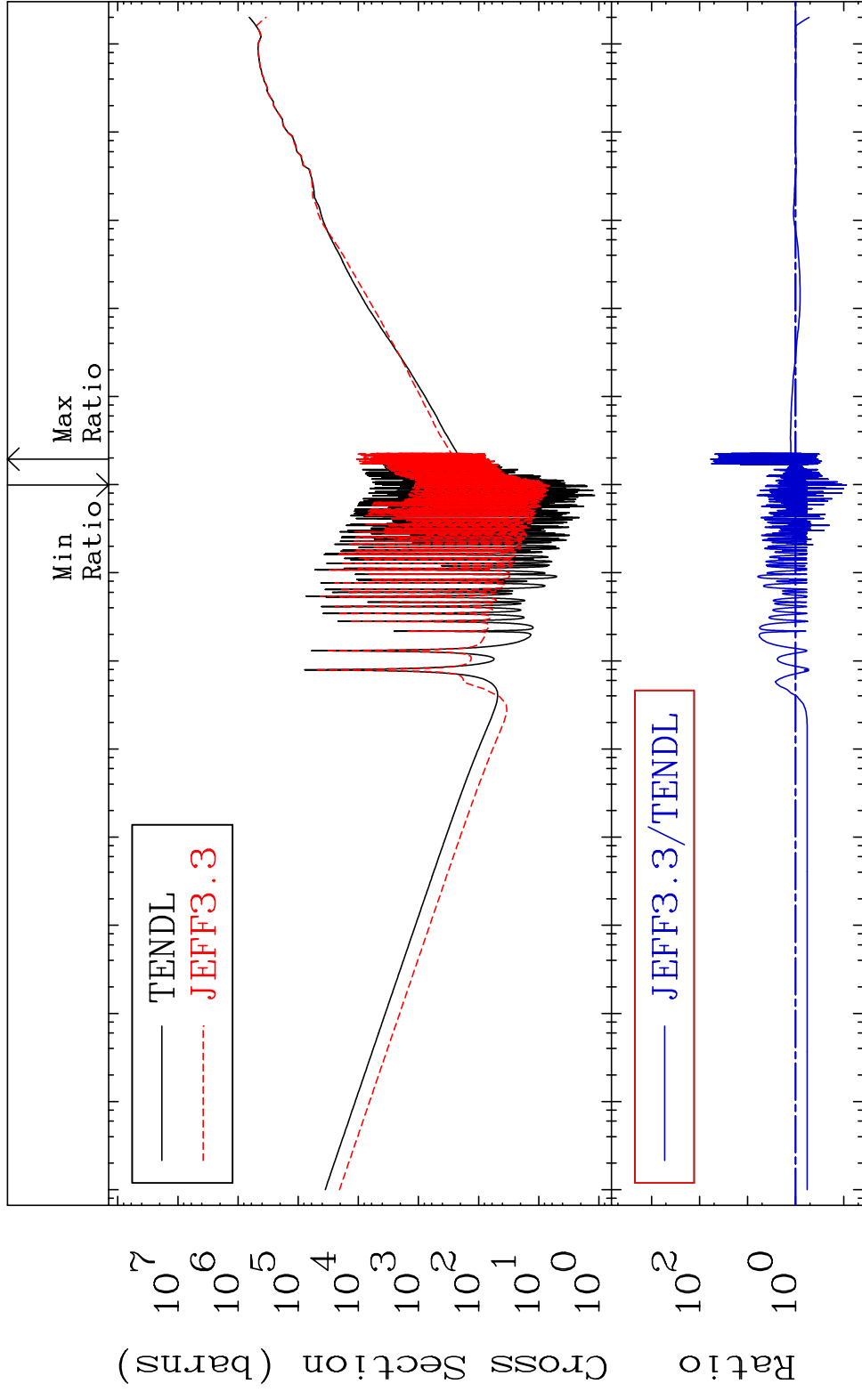


MAT 7034

Dpa total (eV-barns)

70-Yb-171

Cross Section -91.18 To 5759. %

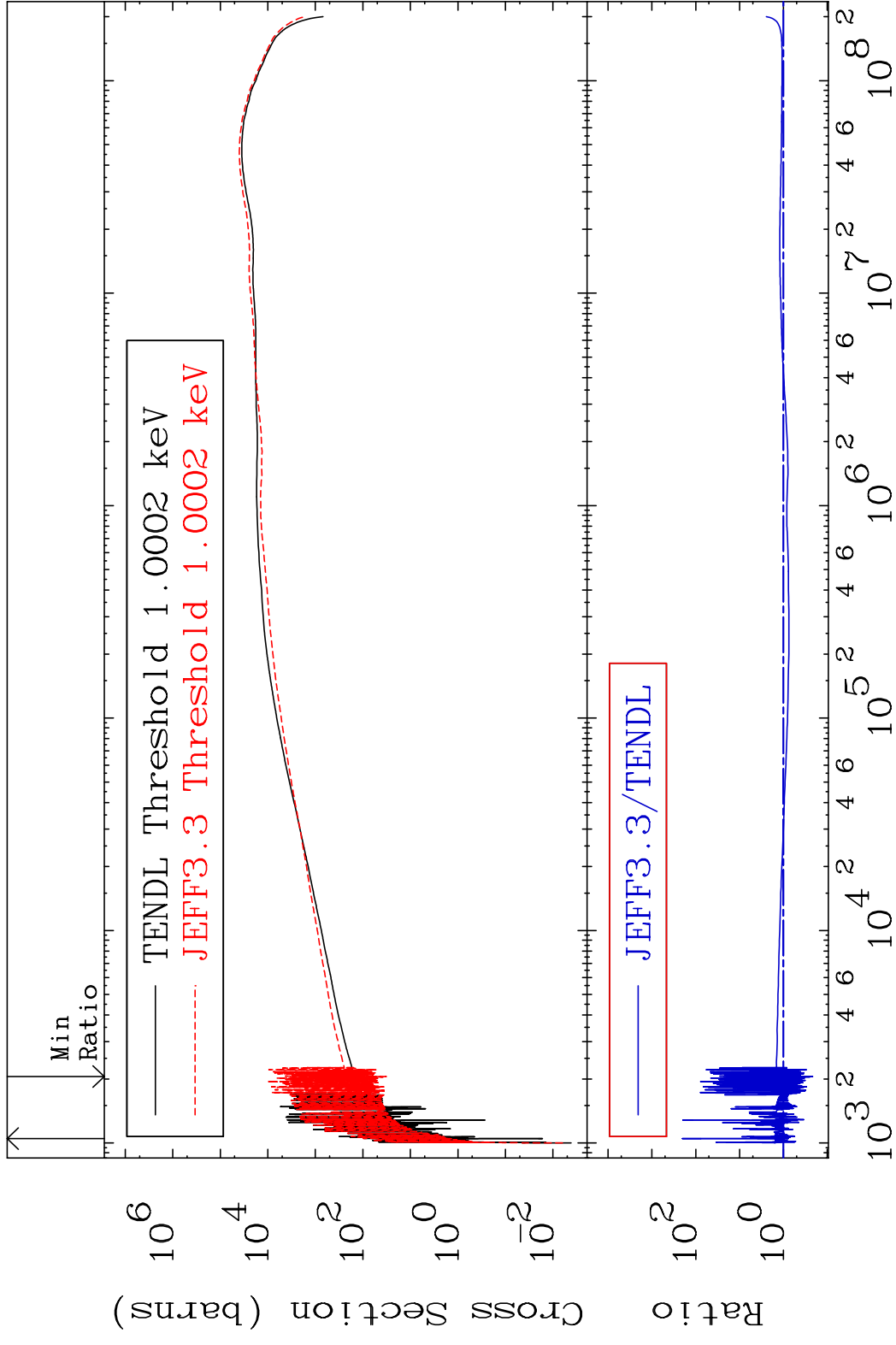


MAT 7034

Dpa elastic (mt2)

70-Yb-171

Cross Section -78.35 To 9999. %

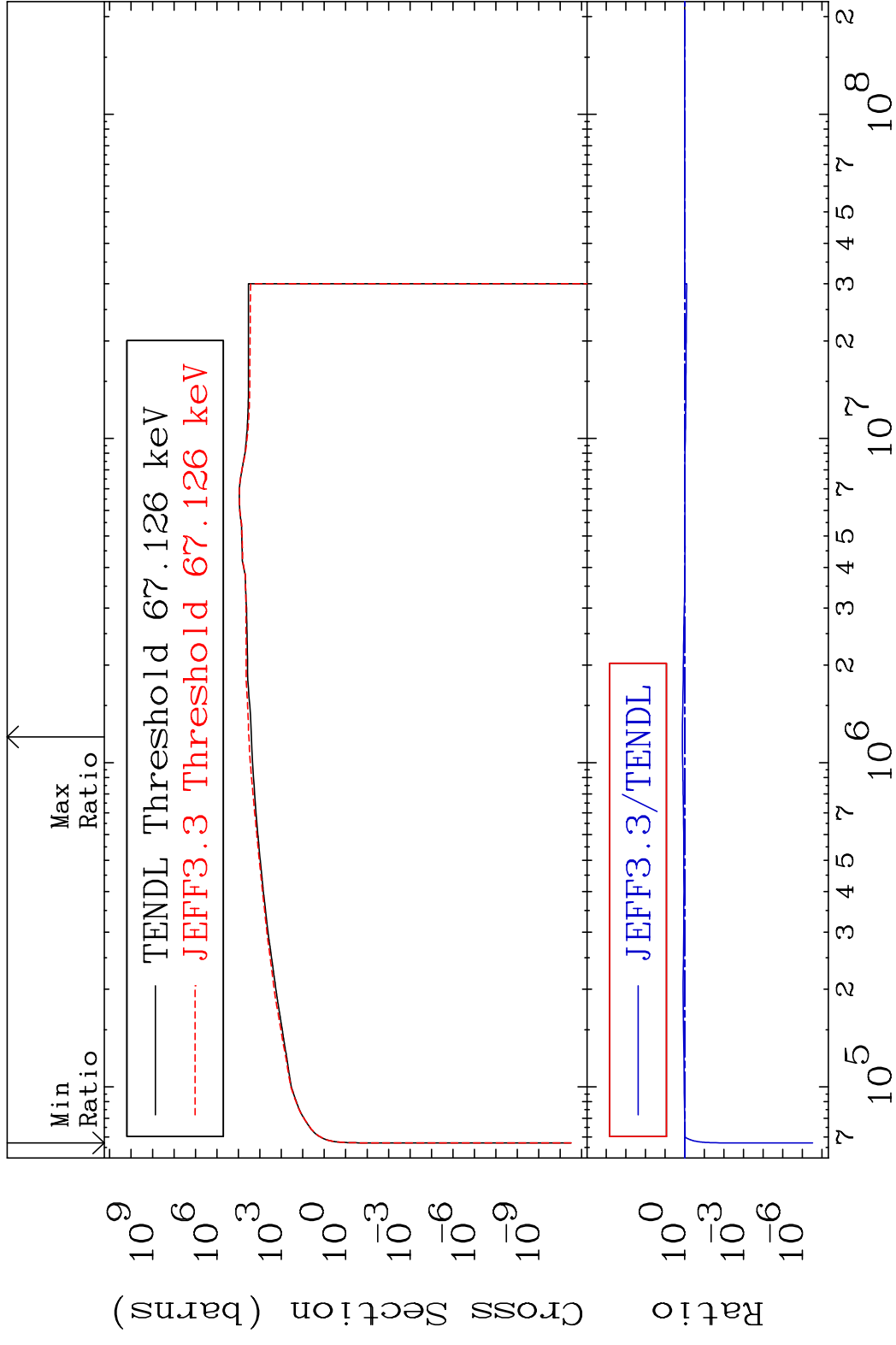


58

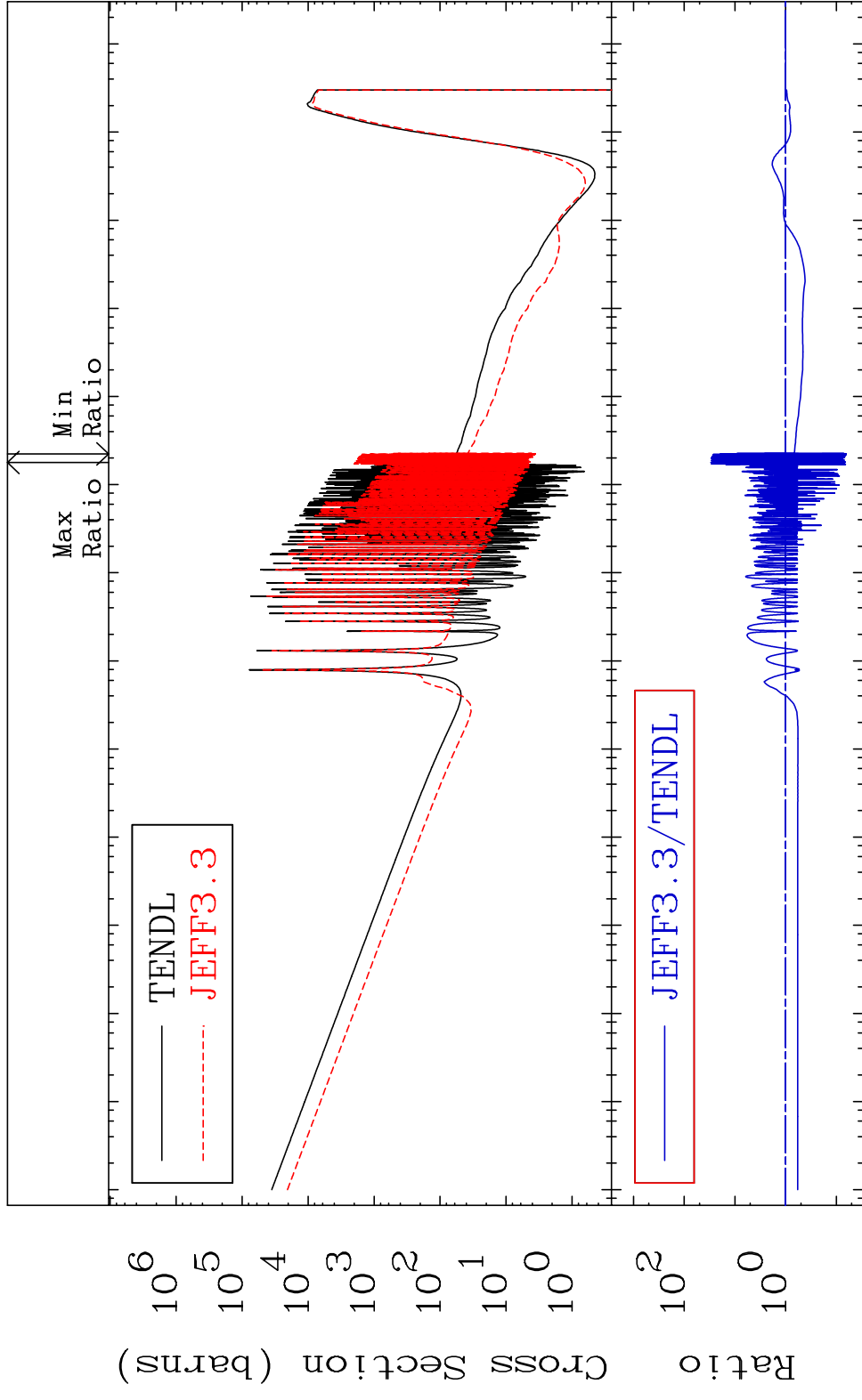
Incident Energy (eV)

70-Yb-171

MAT 7034 Dpa inelastic (mt51-91) 70-Yb-171  
 Cross Section -100.0 To 31.54 %

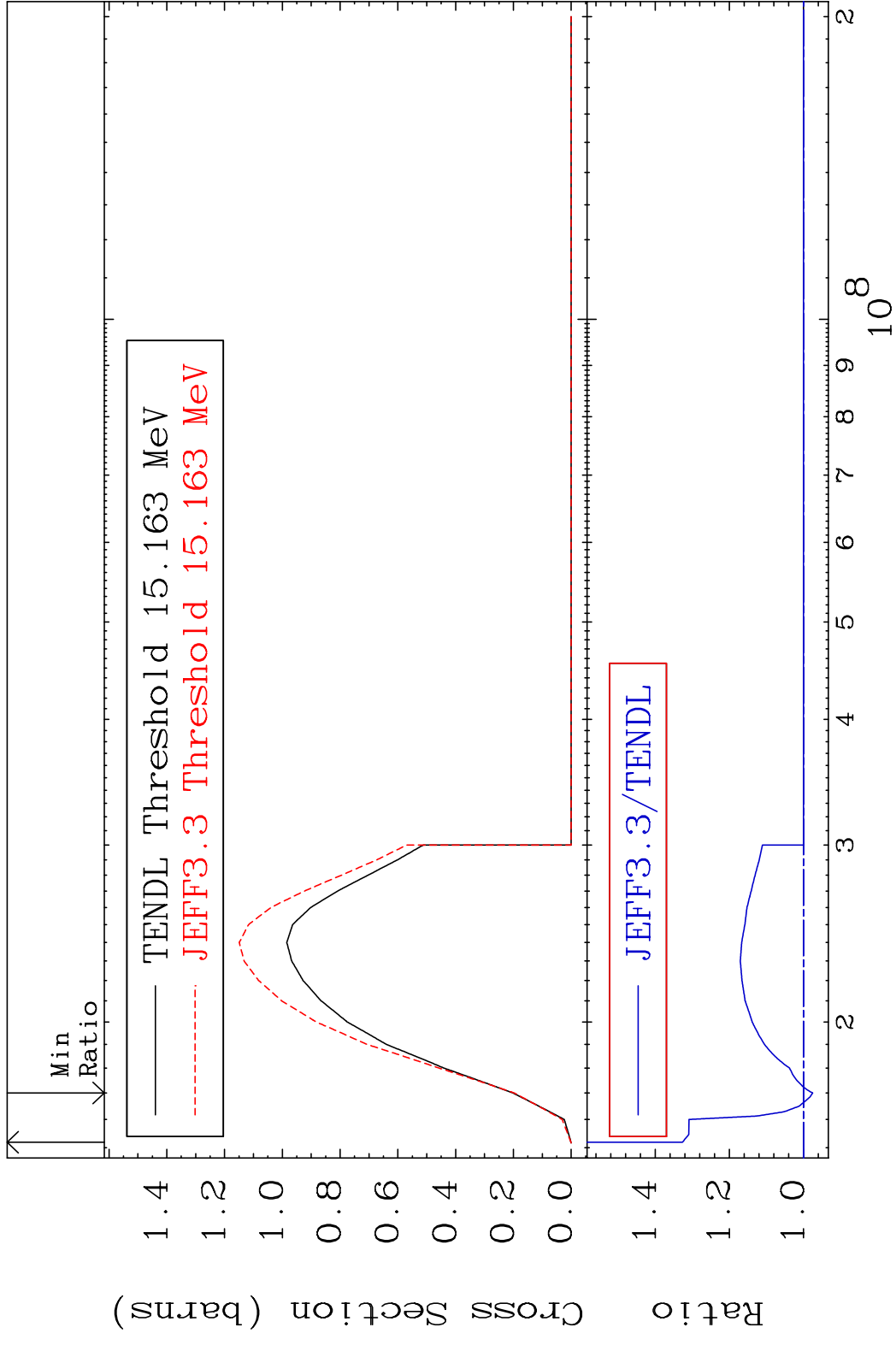


MAT 7034 Dpa disappearance (mt102 -120) 70-Yb-171  
 Cross Section -93.62 To 2903. %



60 Incident Energy (eV) 70-Yb-171

MAT 7034 (n,3n):70-Yb-169g 70-Yb-171  
 Radionuclide Production Cross Section 32.68 %



MAT 7034 (n, 3n): 70-Yb-169m1 70-Yb-171  
 Radionuclide Production Cross Section 58.66 mb 15.44 %

