

Program Complot  
(Version 2021-1)

by

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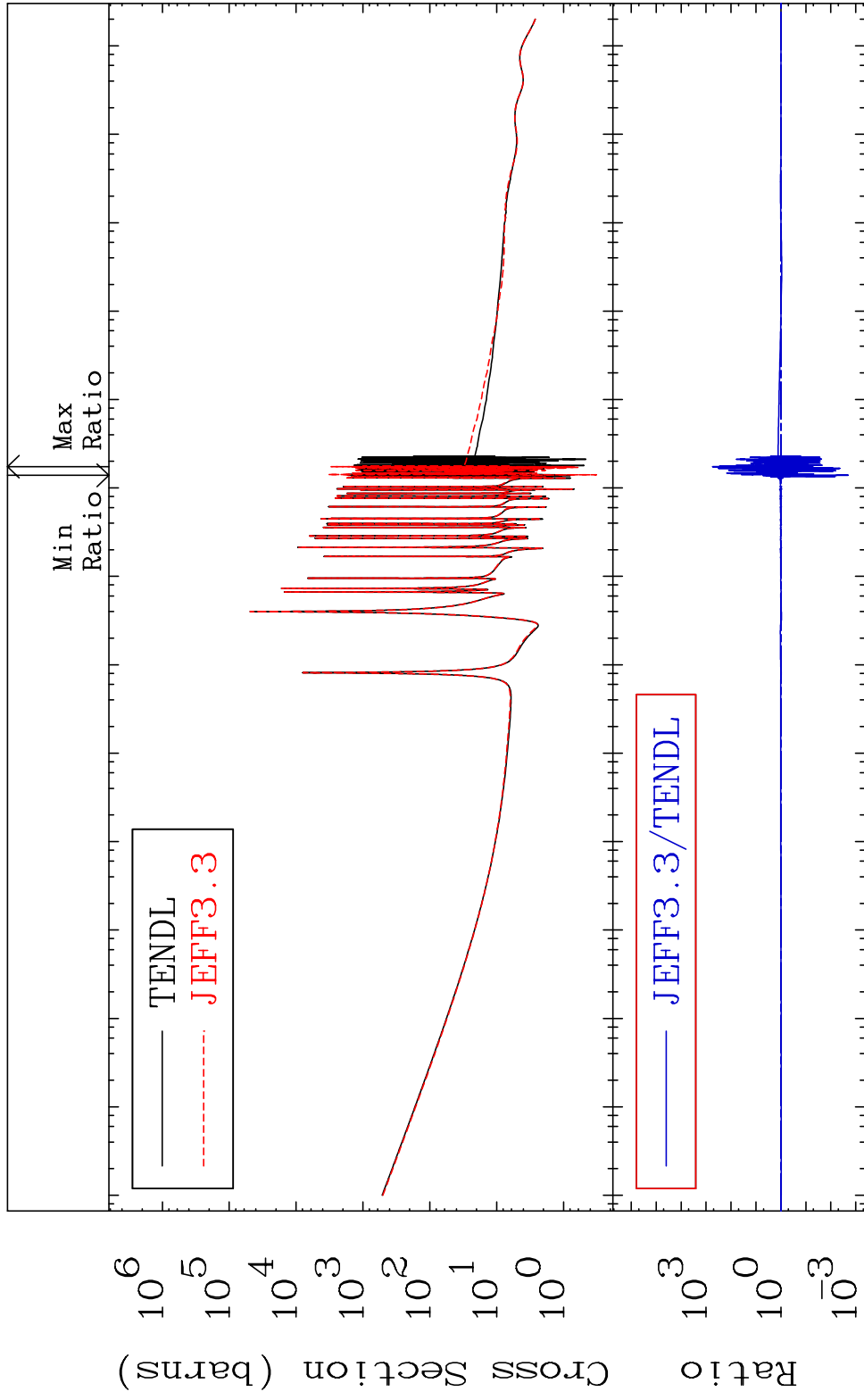
Press Mouse Button to Start

MAT 7031

Total

70-Yb-170

Cross Section -99.80 To 9999. %



1

Incident Energy (eV)

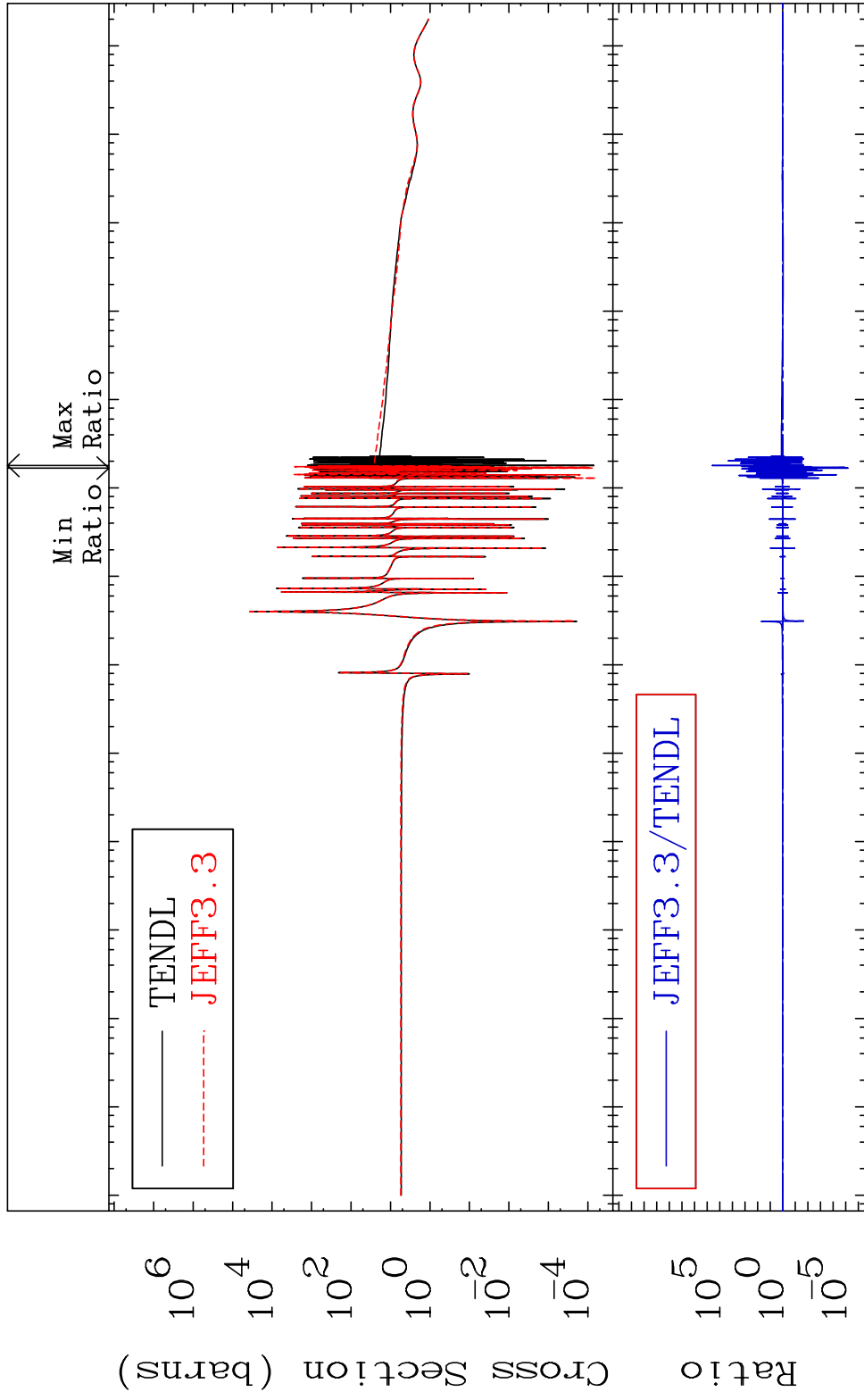
70-Yb-170

MAT 7031

70-Yb-170

Elastic

Cross Section -100.0 To 9999. %

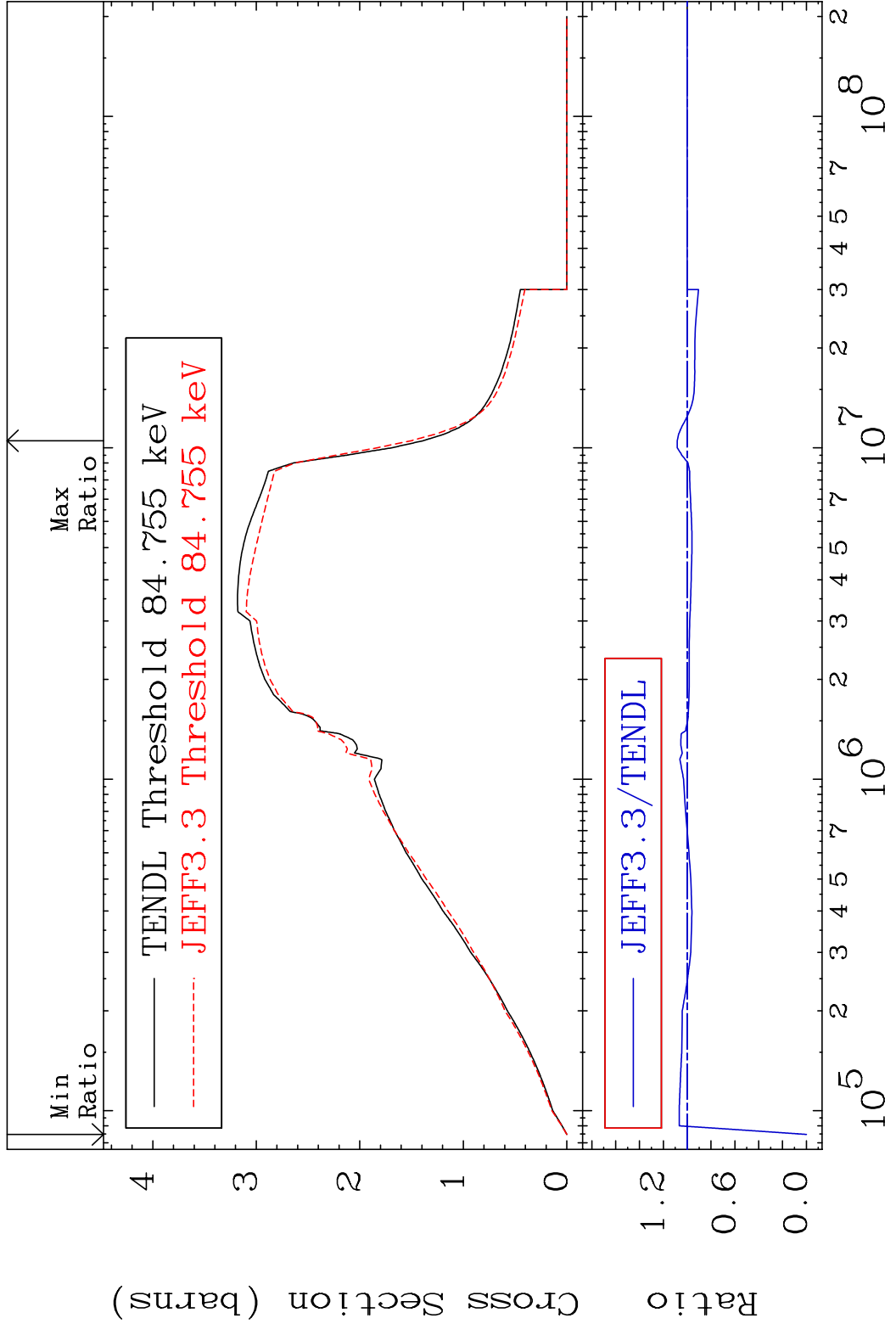


2

Incident Energy (eV)

70-Yb-170

MAT 7031 Inelastic Cross Section -100.0 To 8.384 % 70-Yb-170



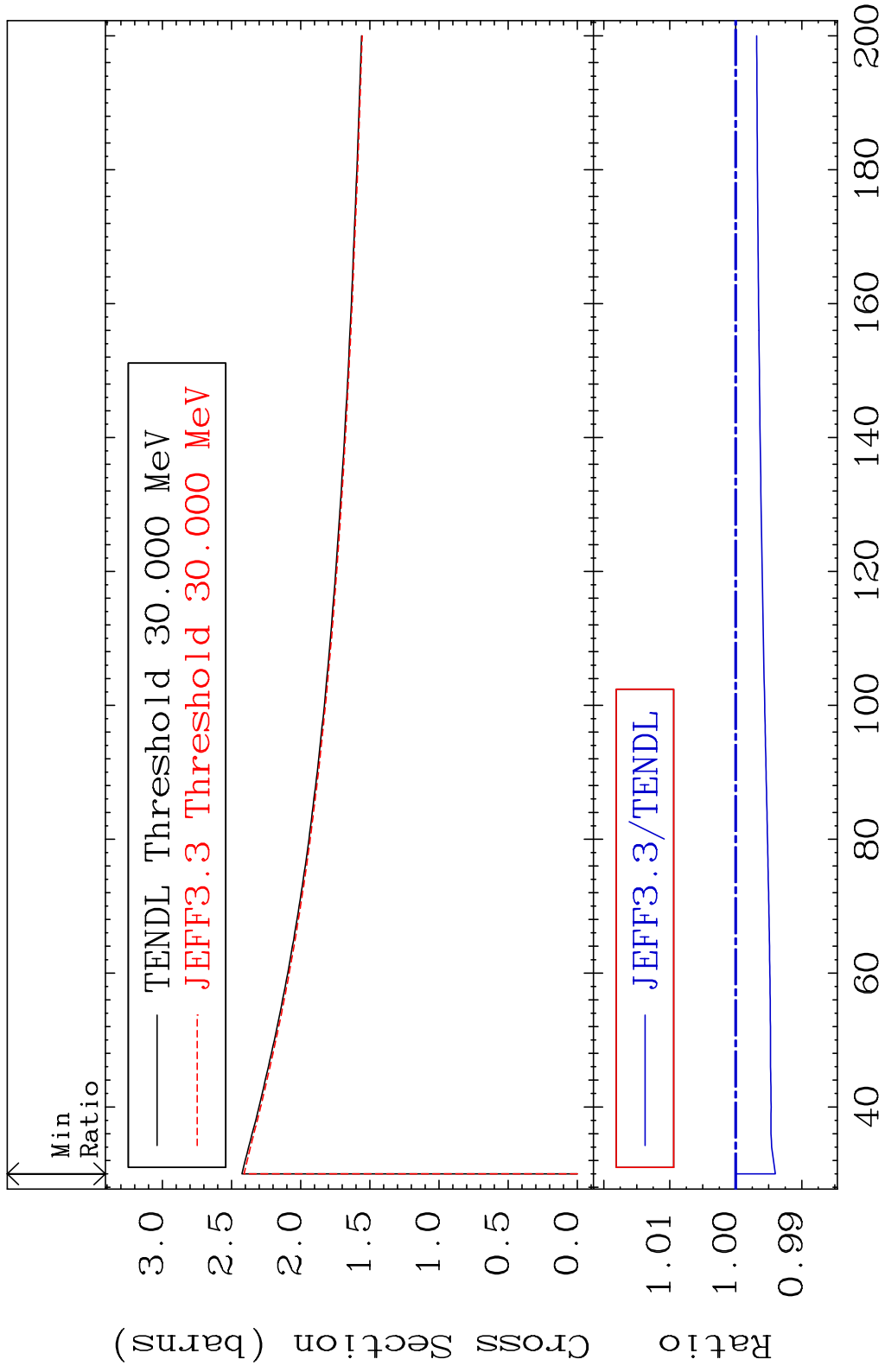
3 Incident Energy (eV) 70-Yb-170

MAT 7031

(n, remainder)

70-Yb-170

Cross Section -0.601 To 0.000 %

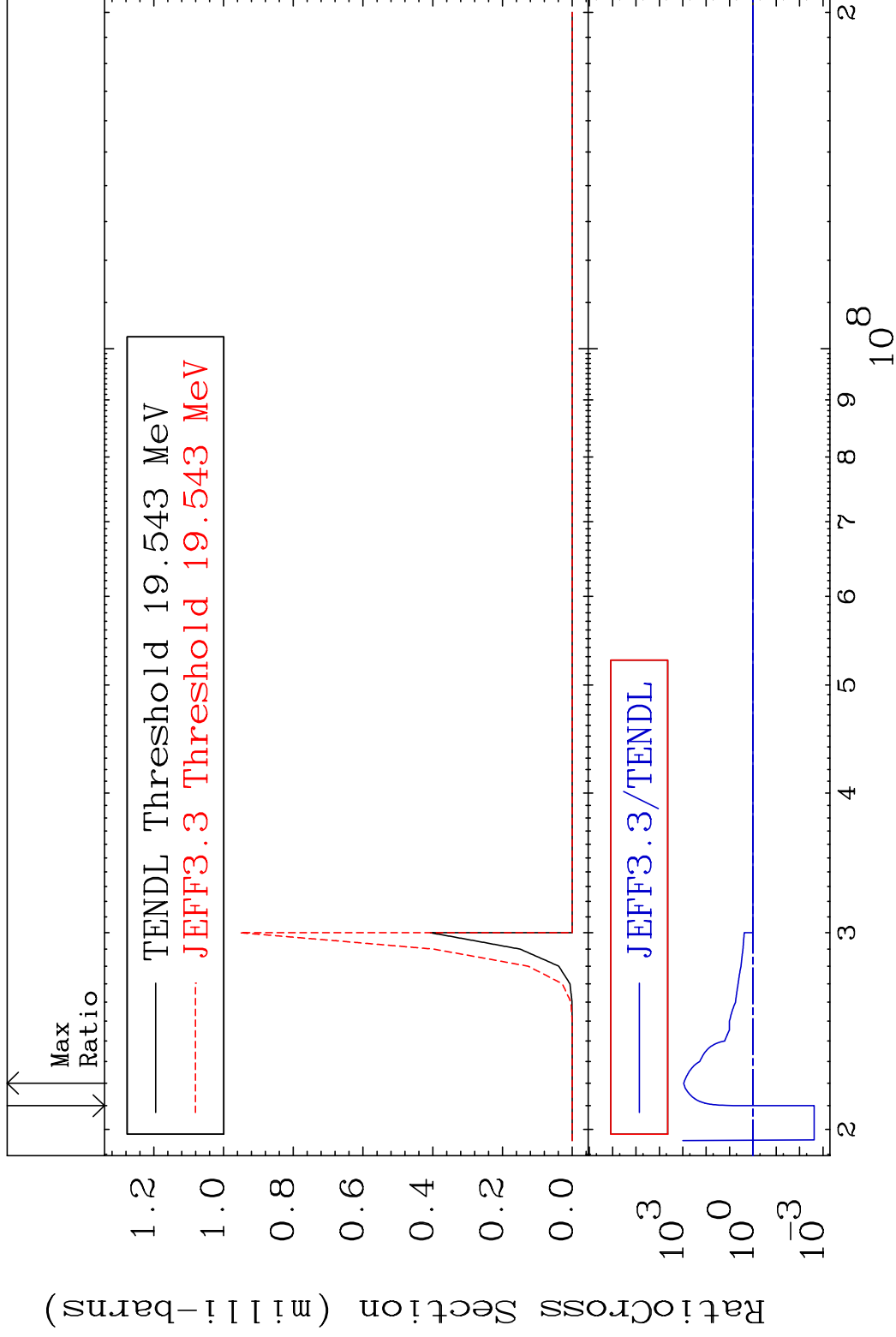


MAT 7031

(n,2n) d

70-Yb-170

Cross Section -99.76 To 9999. %



5

Incident Energy (eV)

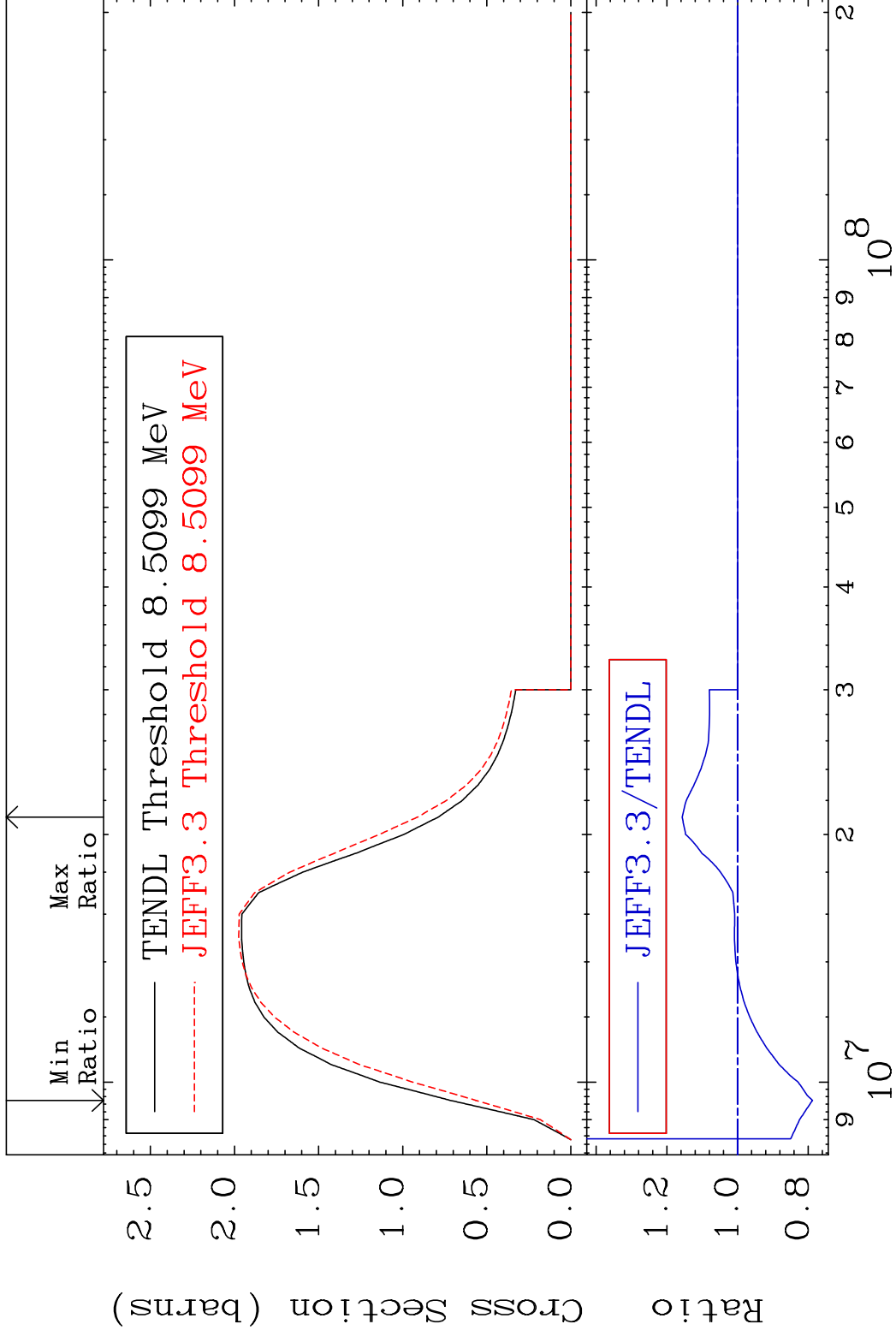
70-Yb-170

MAT 7031

(n,2n)

70-Yb-170

Cross Section -21.21 To 15.68 %



6

Incident Energy (eV)

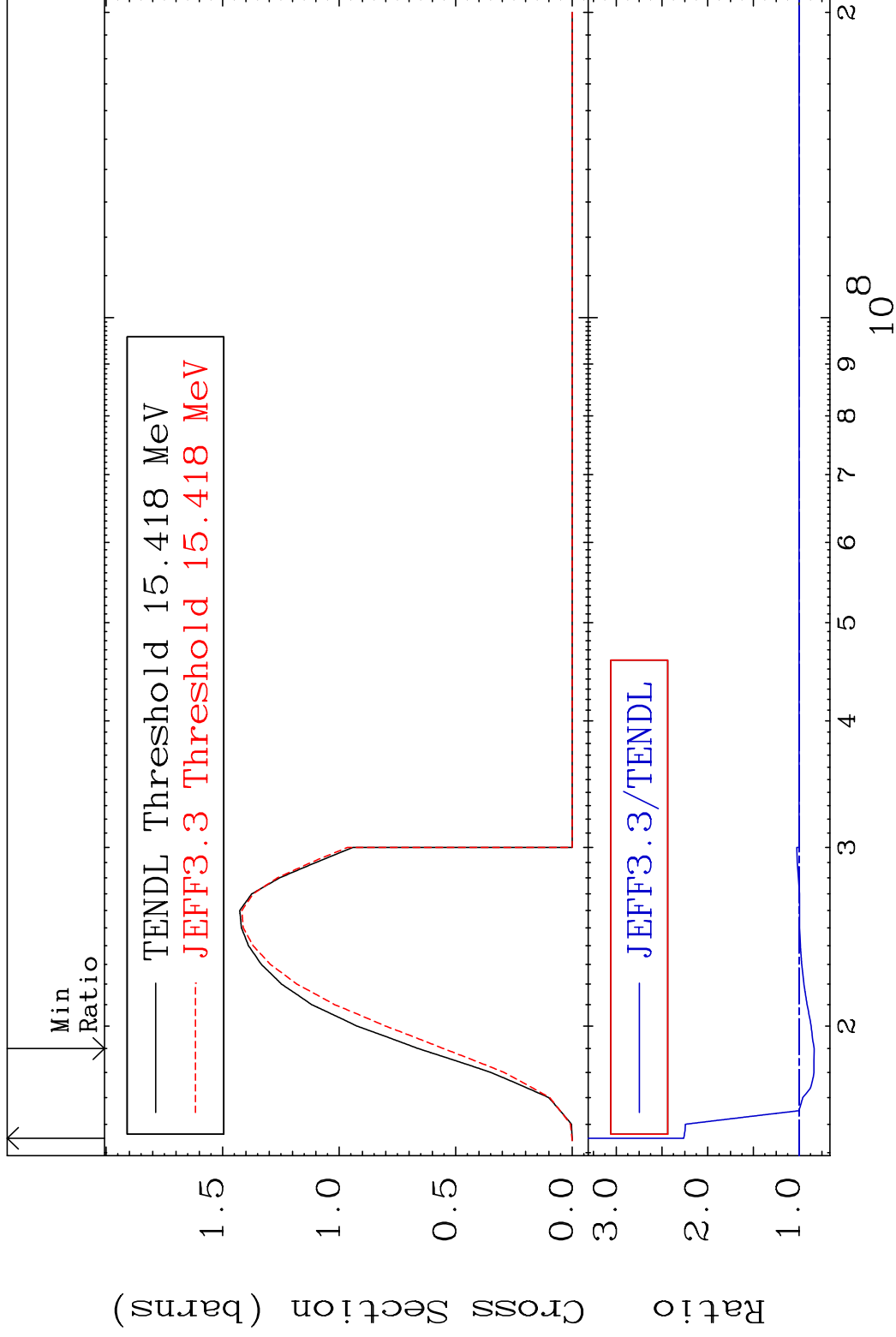
70-Yb-170

MAT 7031

(n,3n)

70-Yb-170

Cross Section -16.45 To 126.3 %



7

Incident Energy (eV)

70-Yb-170

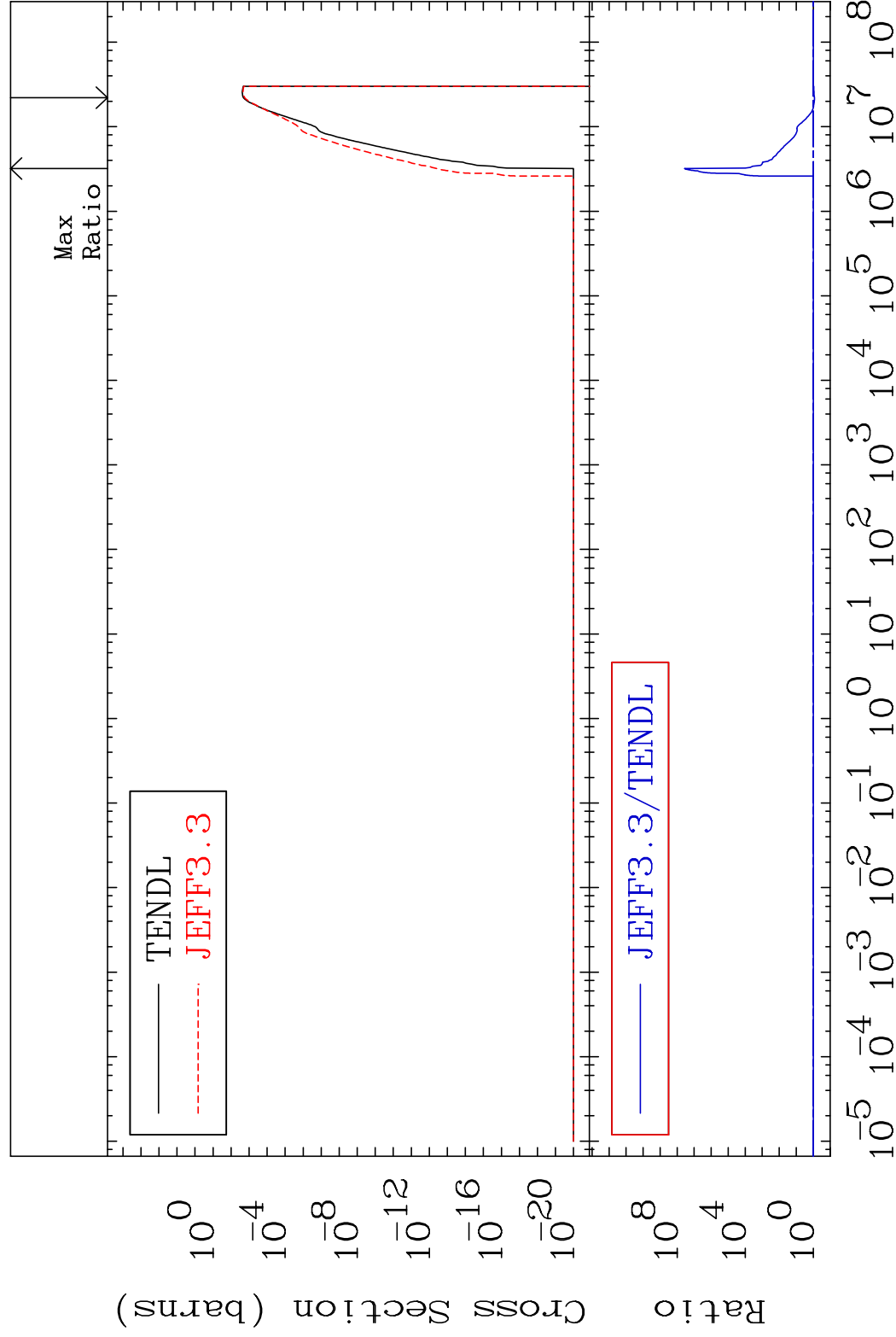


MAT 7031

(n, n')  $\alpha$

70-Yb-170

Cross Section -14.86 To 9999. %

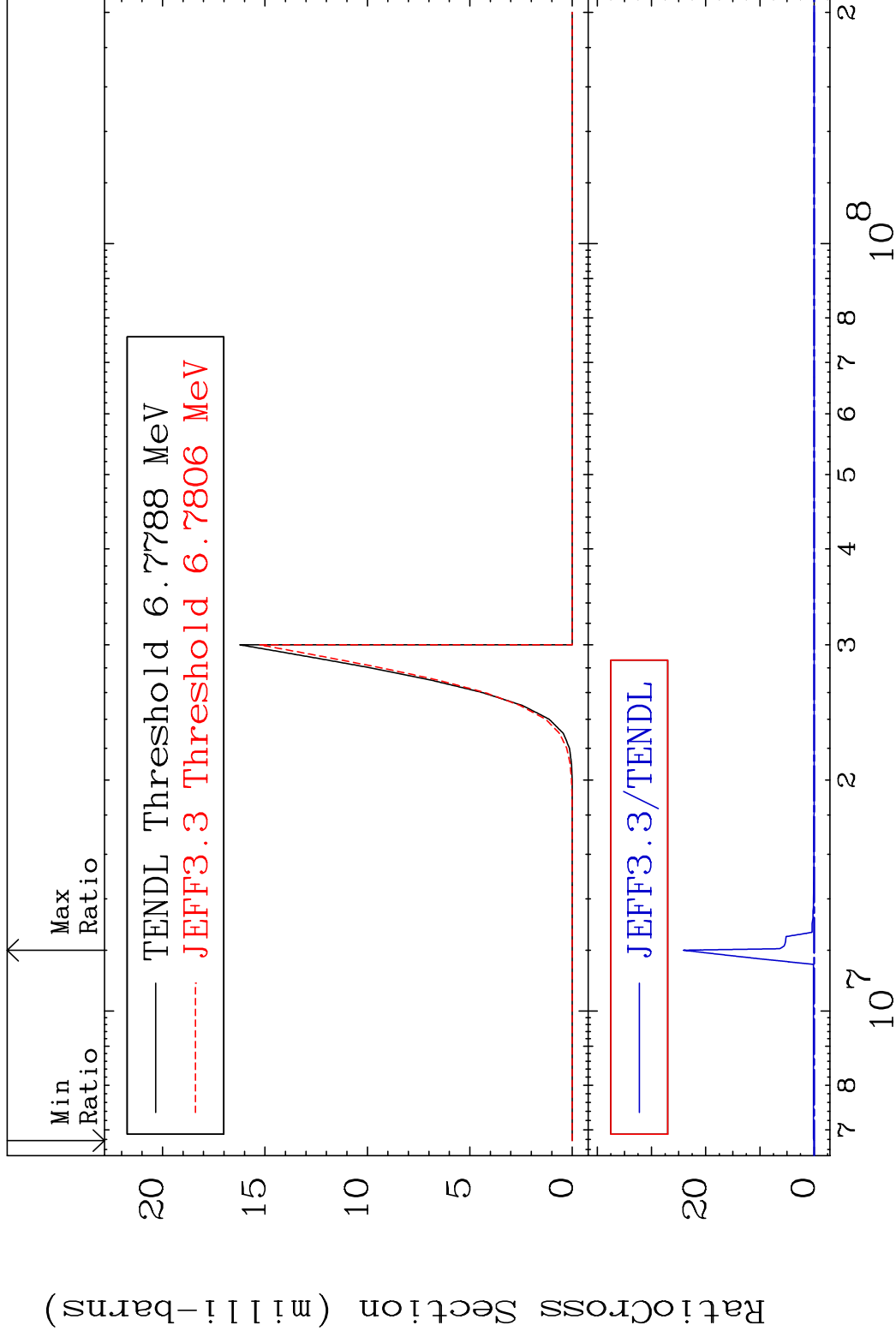


MAT 7031

(n,2n)  $\alpha$

70-Yb-170

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

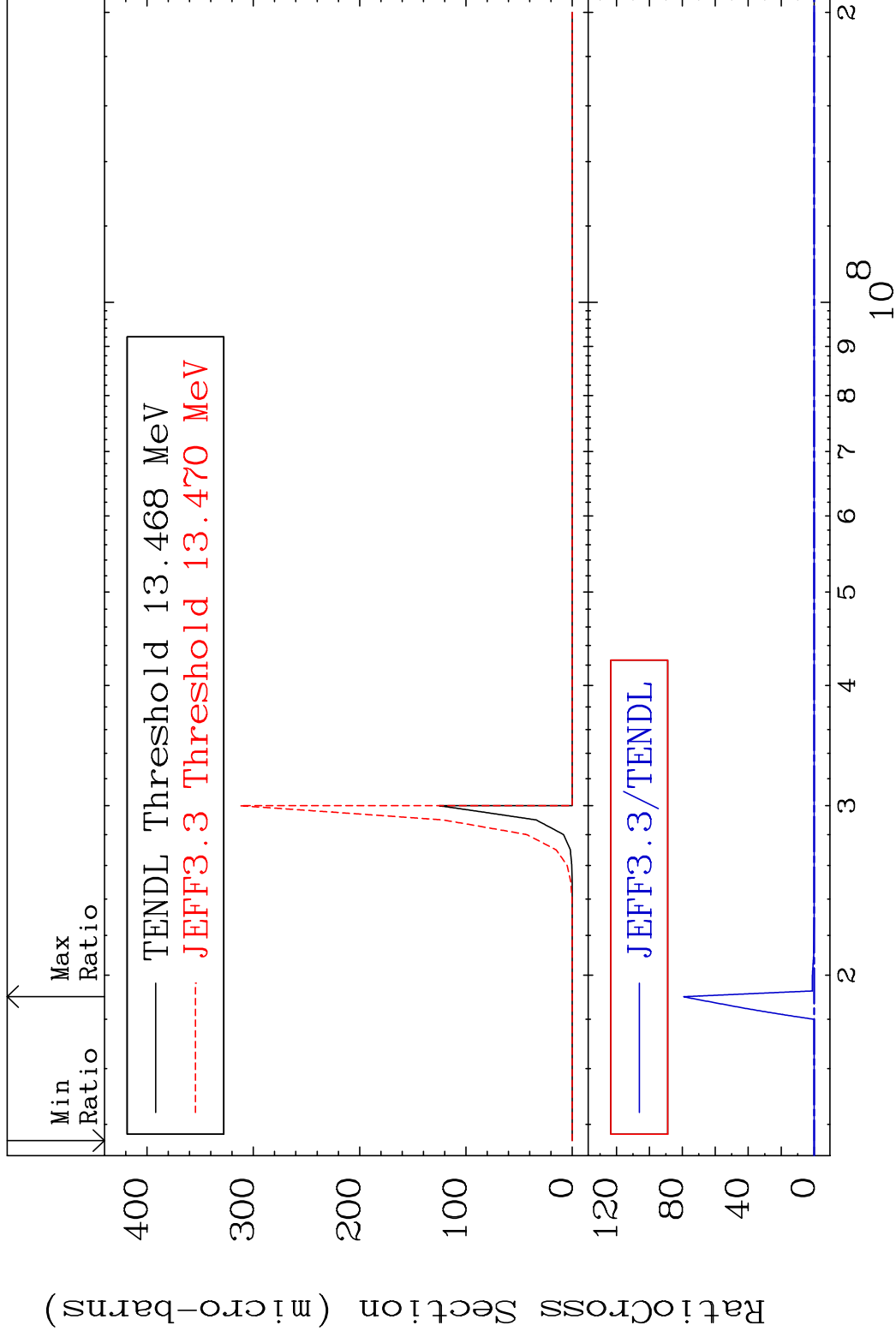
70-Yb-170

MAT 7031

(n,3n)  $\alpha$

70-Yb-170

Cross Section -100.0 To 9999. %

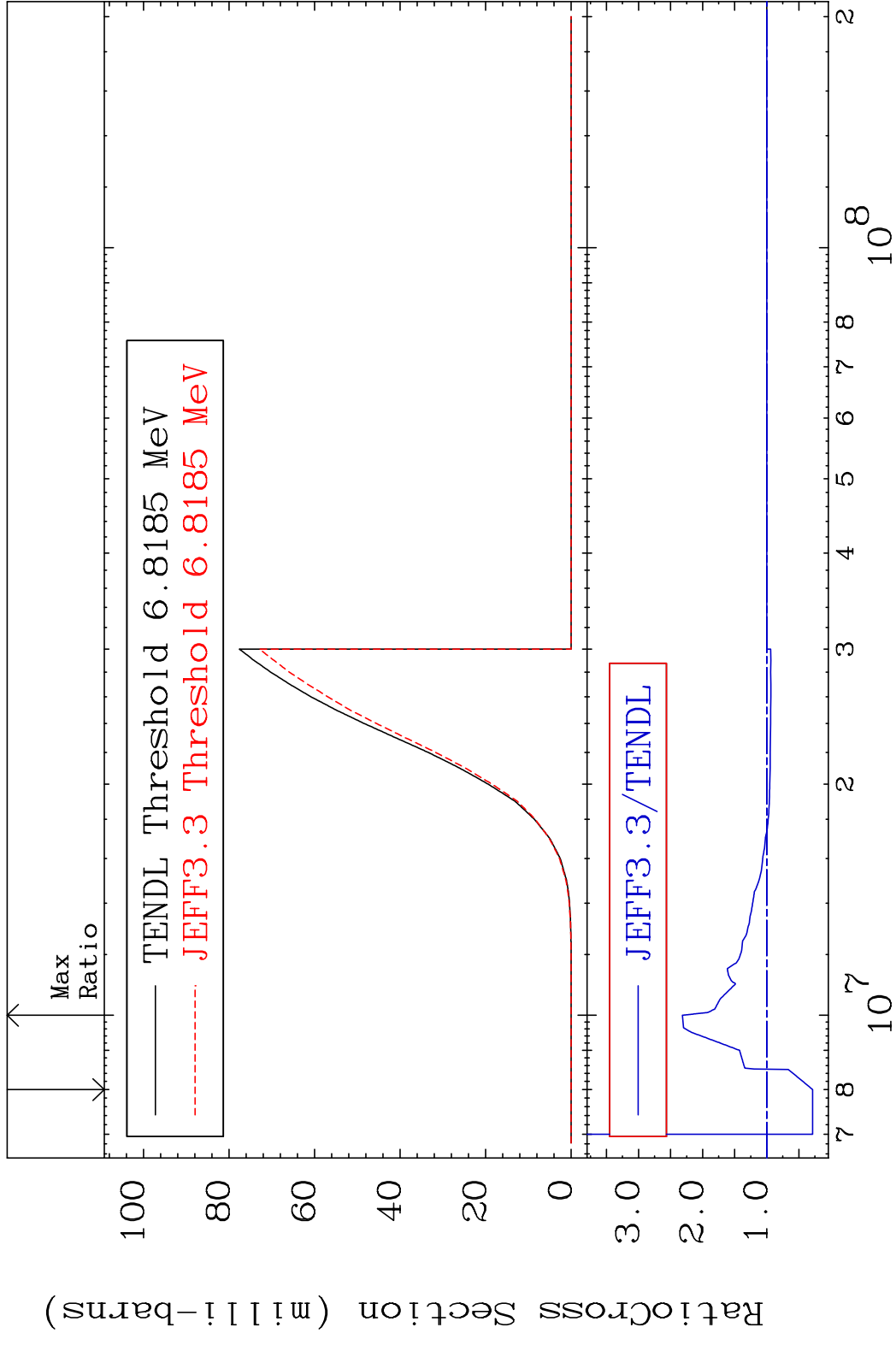


10

Incident Energy (eV)

70-Yb-170

MAT 7031 (n, n') p 70-Yb-170  
 Cross Section -71.43 To 131.6 %

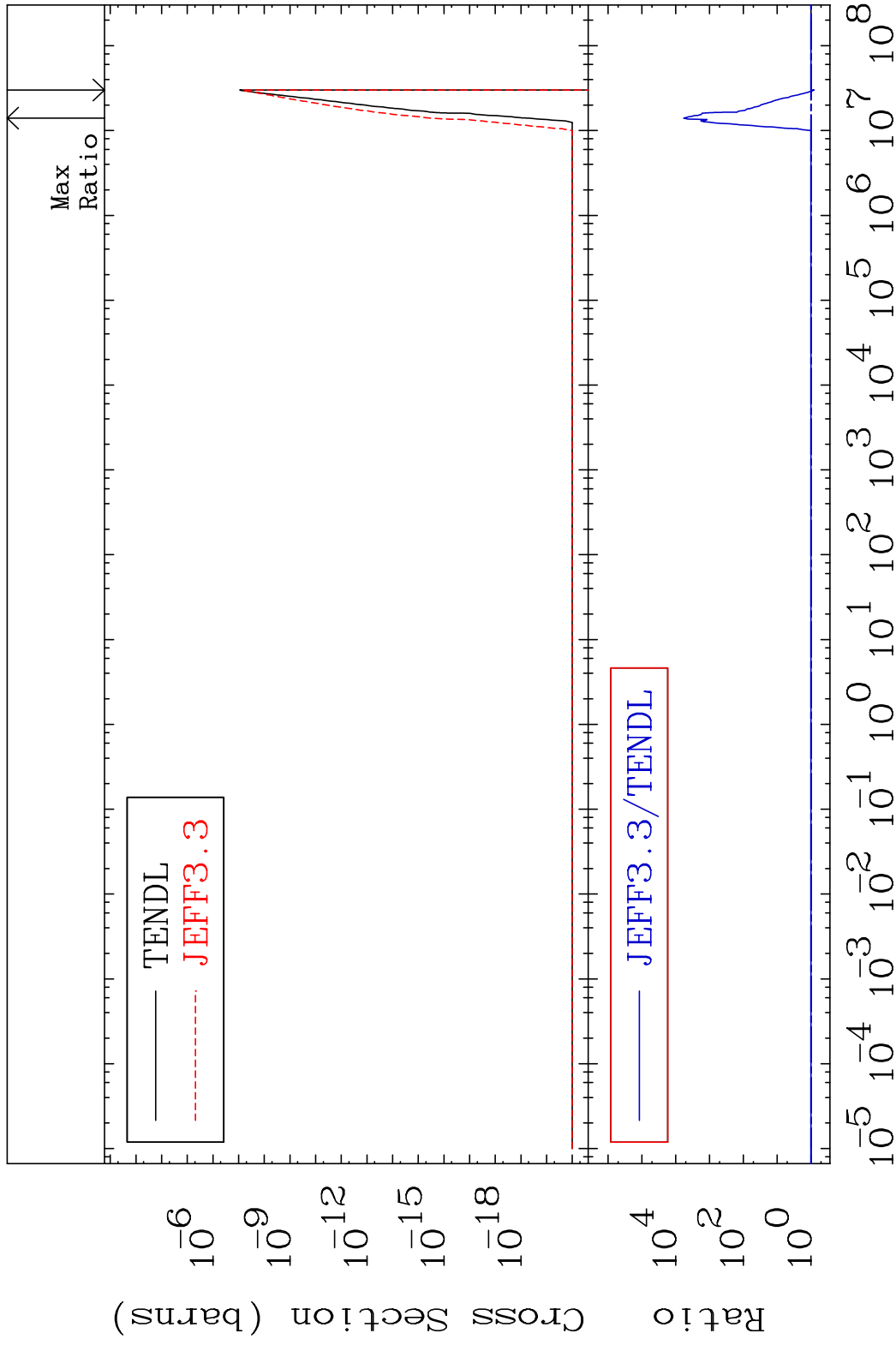


MAT 7031

(n, n') 2α

70-Yb-170

Cross Section -19.65 To 9999. %



12

Incident Energy (eV)

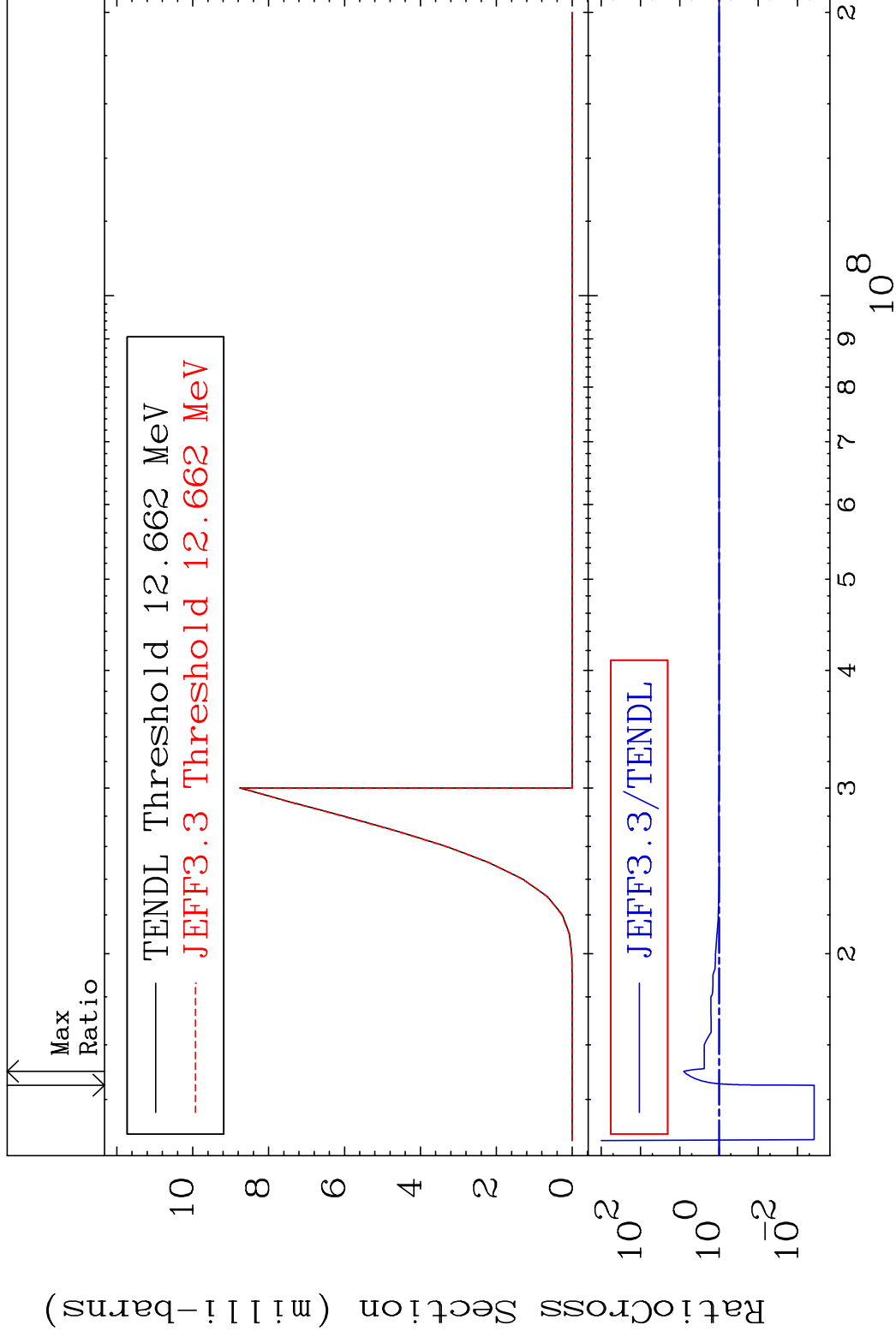
70-Yb-170

MAT 7031

(n, n') d

70-Yb-170

Cross Section -99.62 To 696.1 %

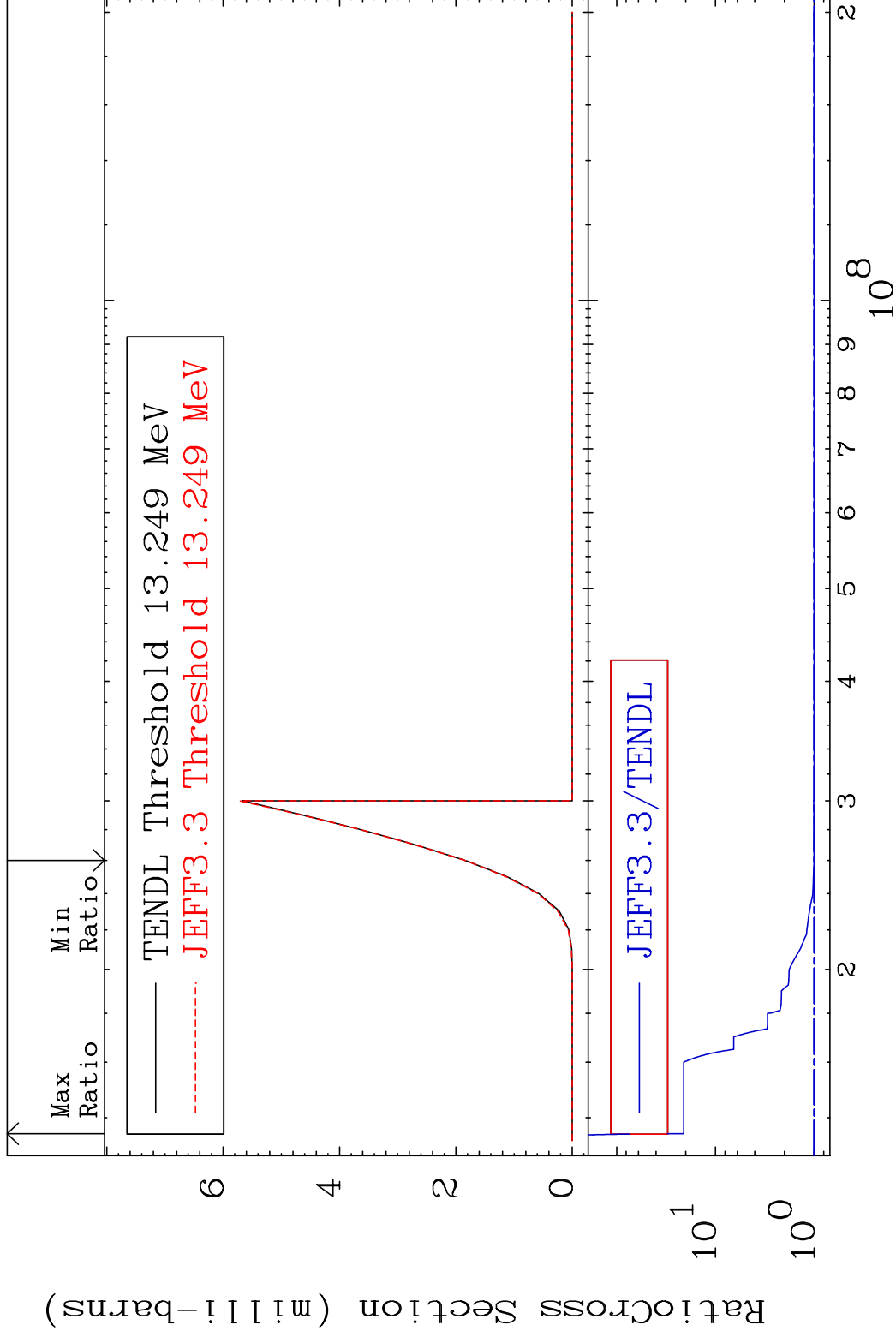


MAT 7031

(n, n') t

70-Yb-170

Cross Section -0.037 To 1996. %



14

Incident Energy (eV)

70-Yb-170

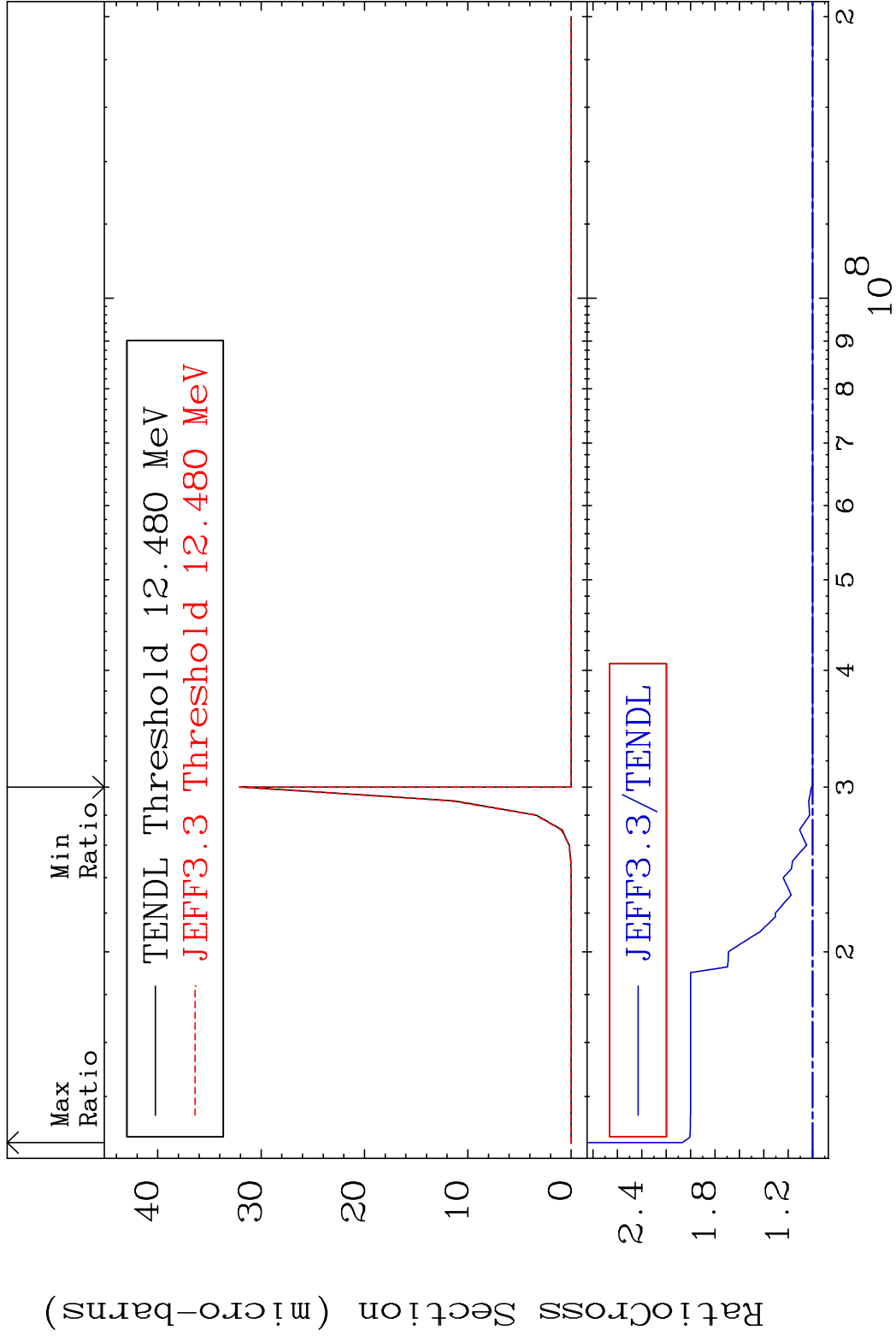
MAT 7031

(n,n') He-3

70-Yb-170

Cross Section 0.000

To 106.7 %



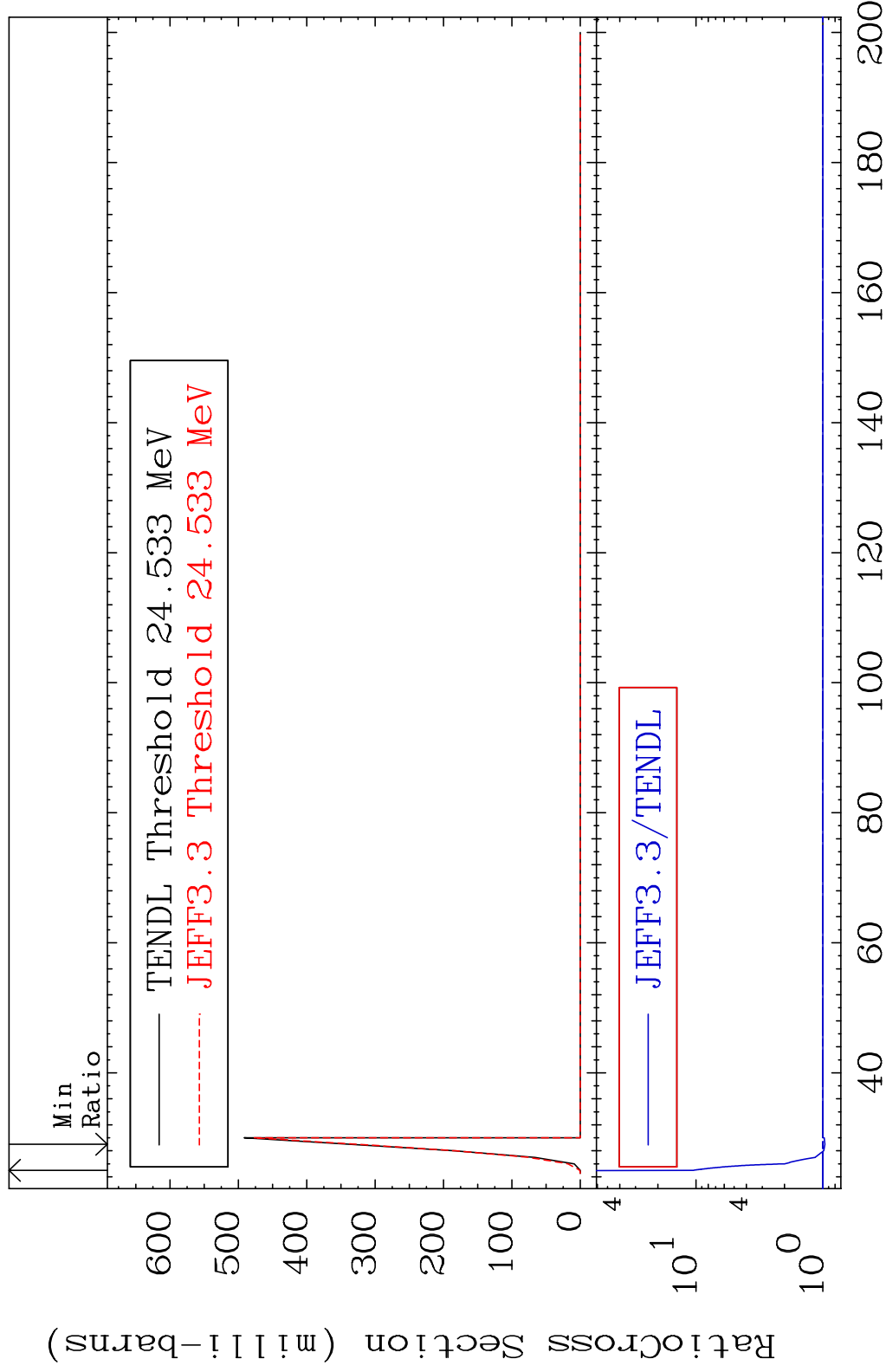


MAT 7031

(n,4n)

70-Yb-170

Cross Section -3.797 To 956.7 %

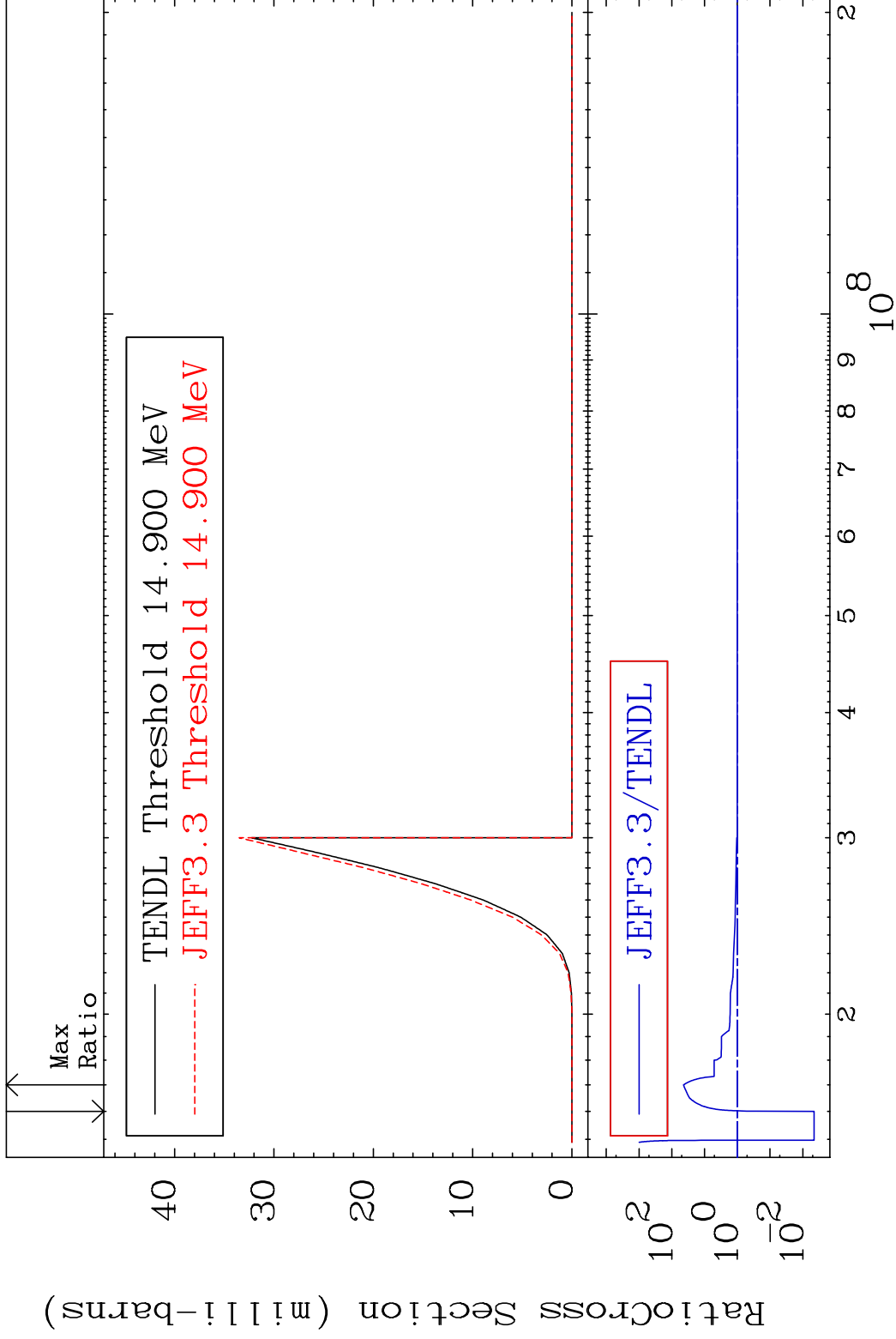


MAT 7031

(n,2n) p

70-Yb-170

Cross Section -99.55 To 4299. %



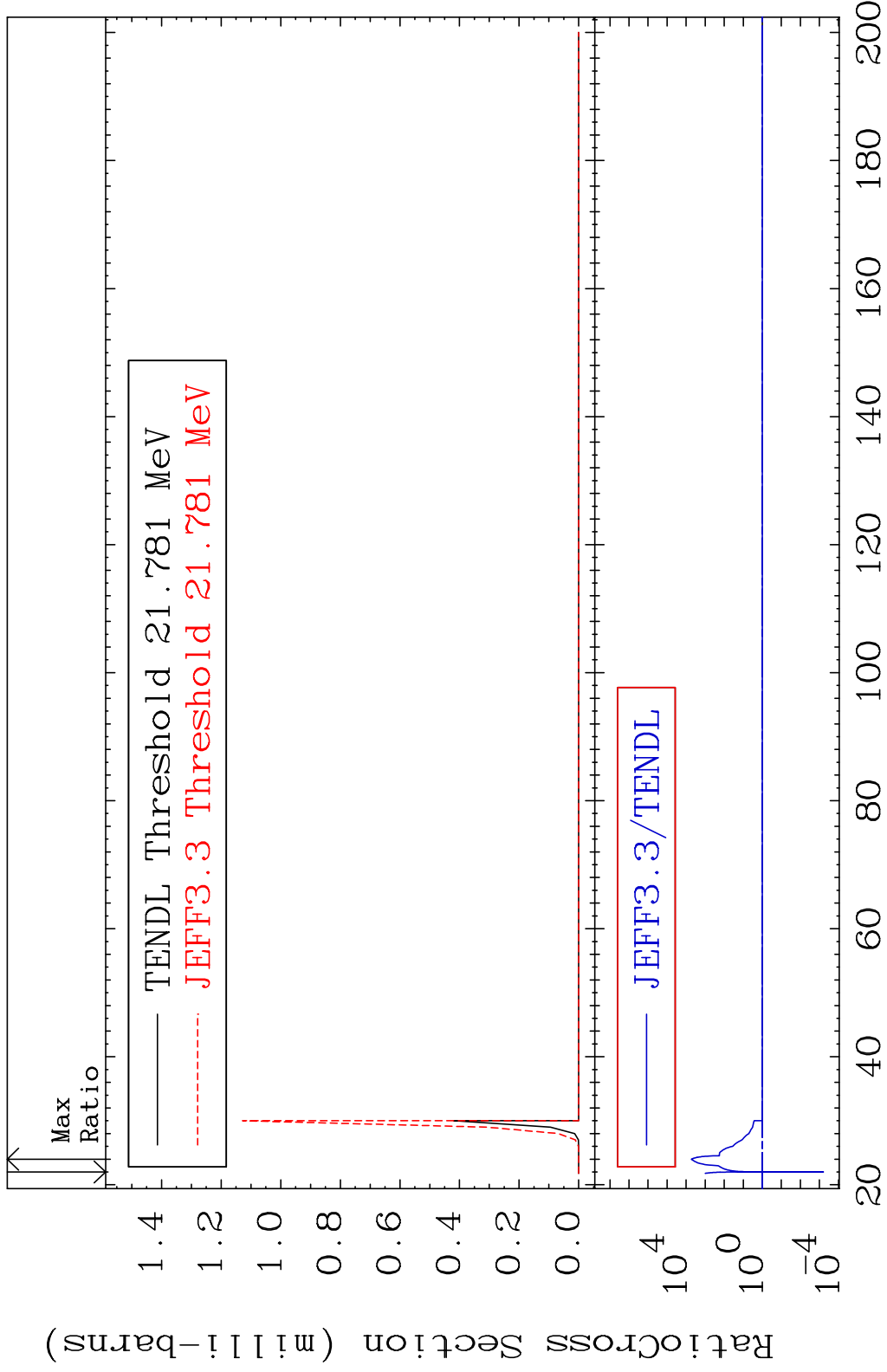
MAT 7031

(n,3n) p

70-Yb-170

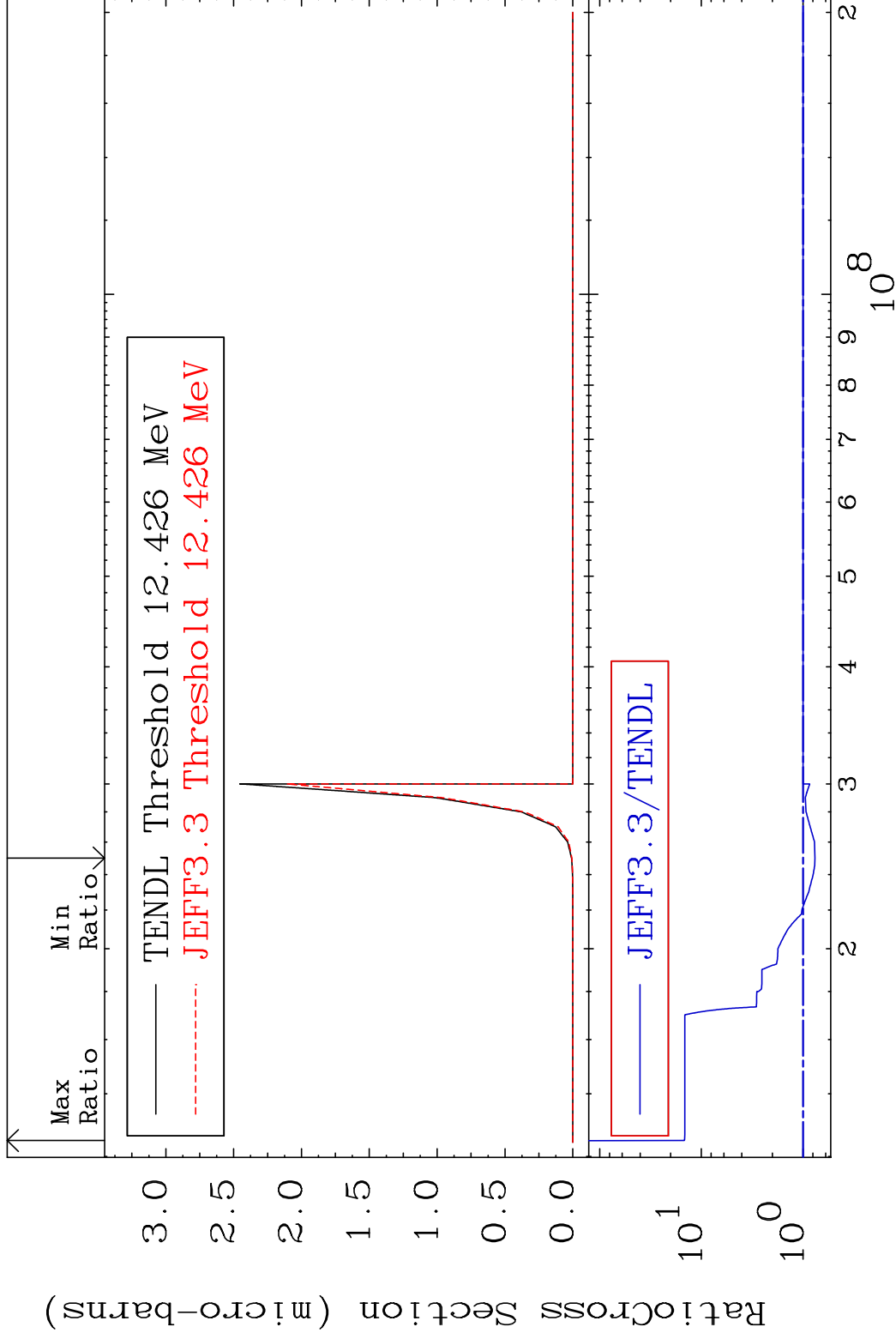
Cross Section

-99.94 To 9999. %



MAT 7031

(n,2n) p 70-Yb-170  
Cross Section -23.46 To 1371. %



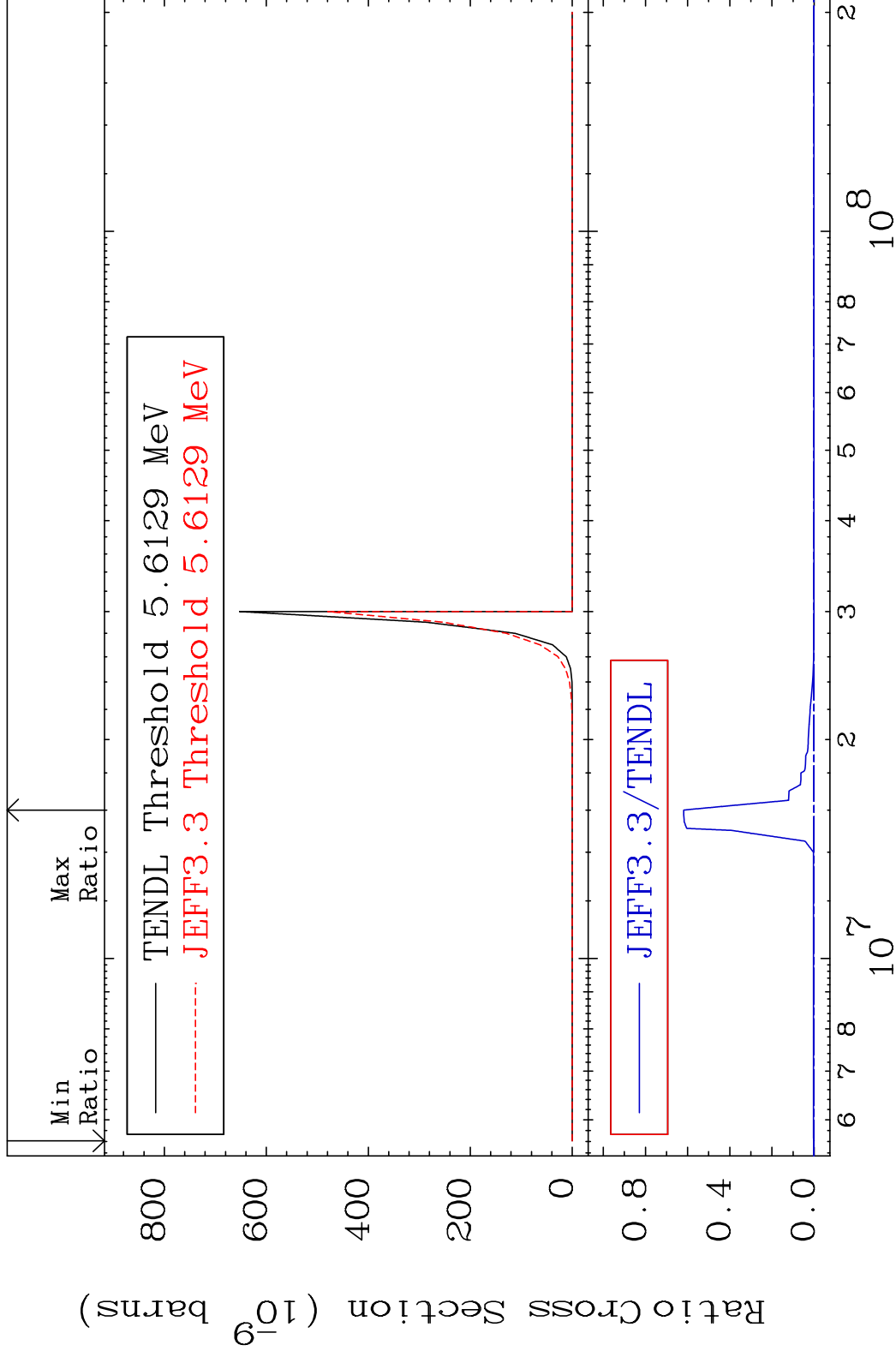
19

Incident Energy (eV)

70-Yb-170

MAT 7031

(n,n') p  $\alpha$  70-Yb-170  
Cross Section -100.0 To 9999. %

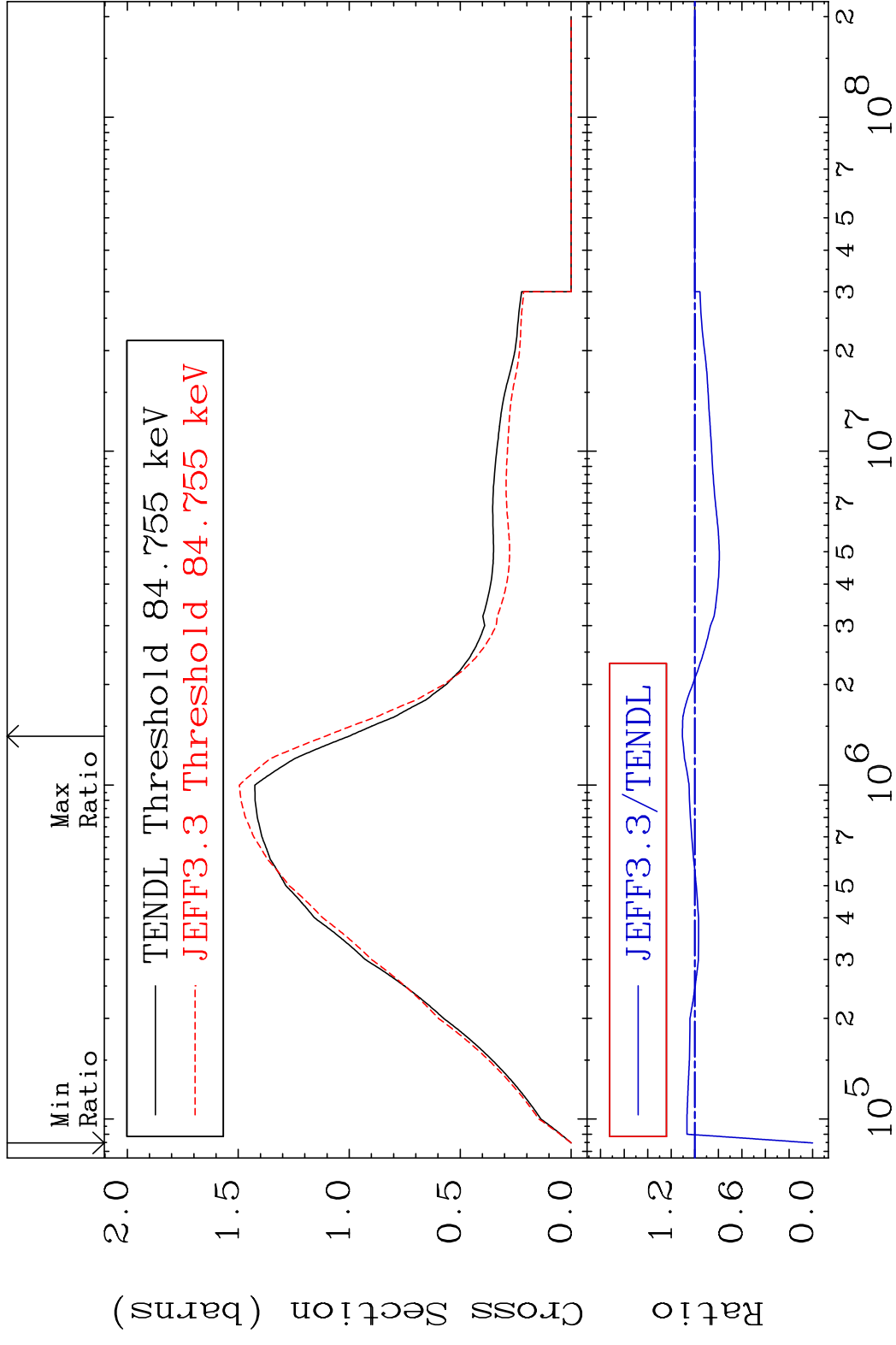


20

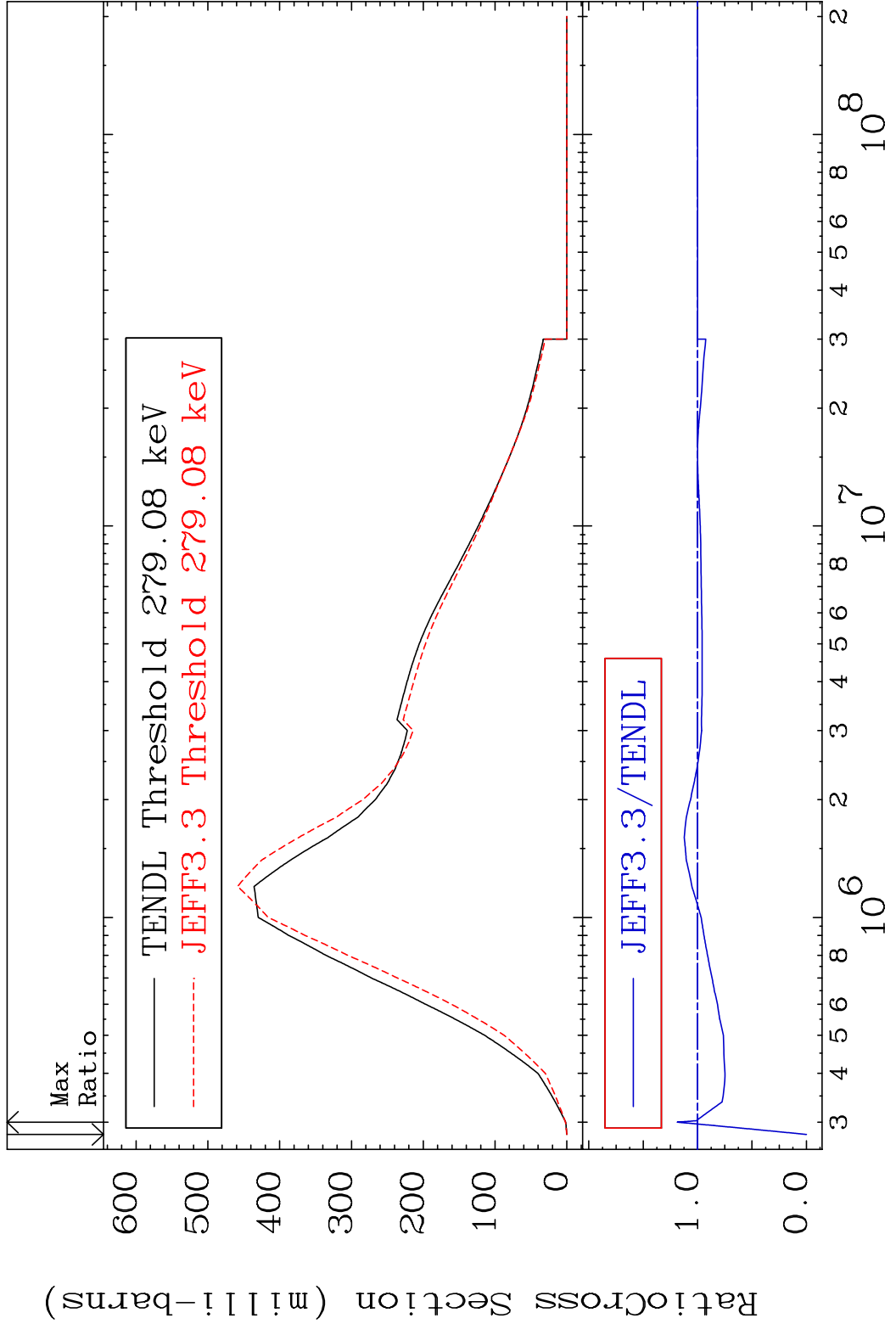
Incident Energy (eV)

70-Yb-170

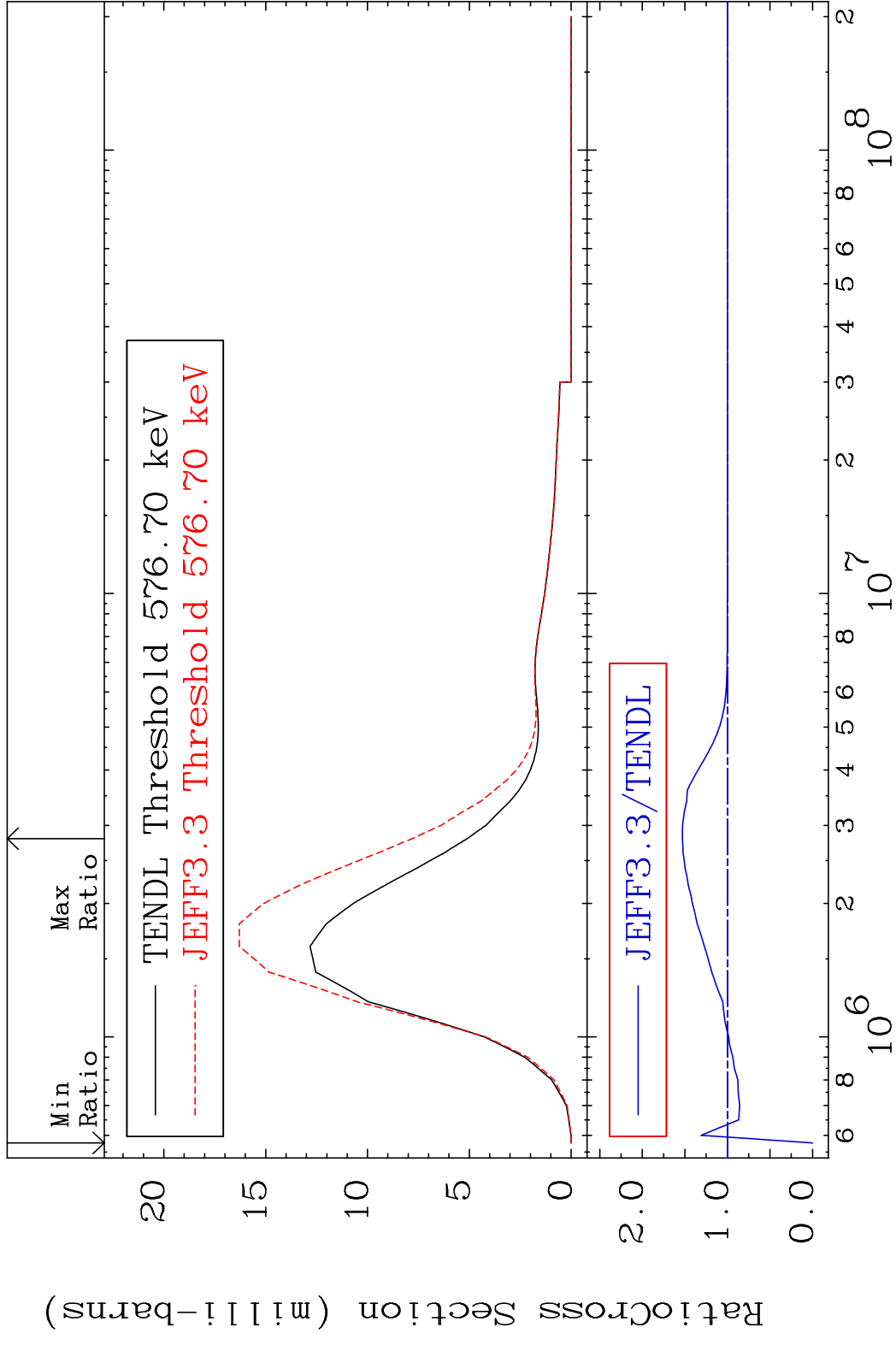
MAT 7031 MT= 51 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 10.58 %



MAT 7031 MT= 52 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 18.78 %

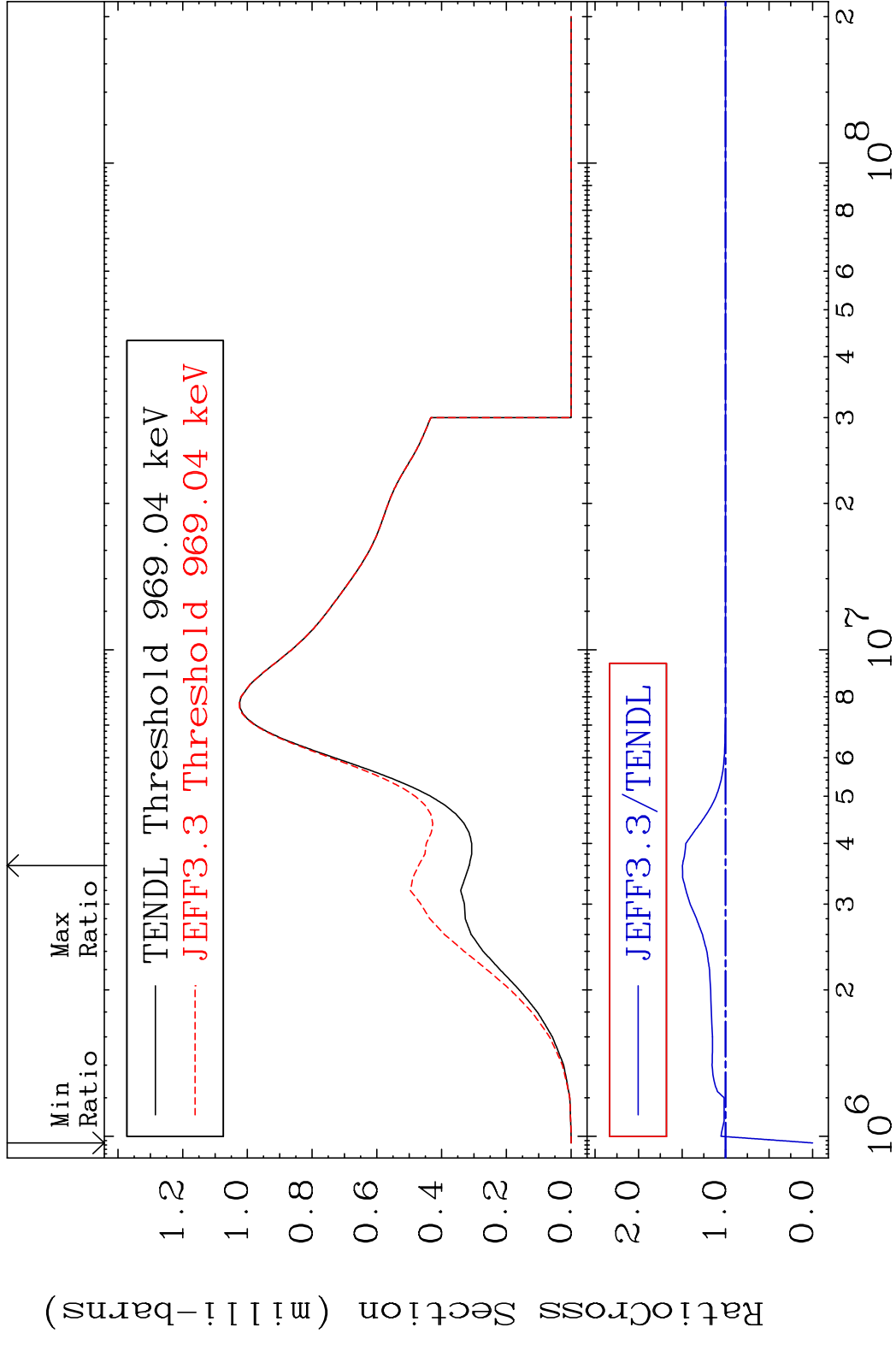


MAT 7031 MT= 53 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 52.98 %

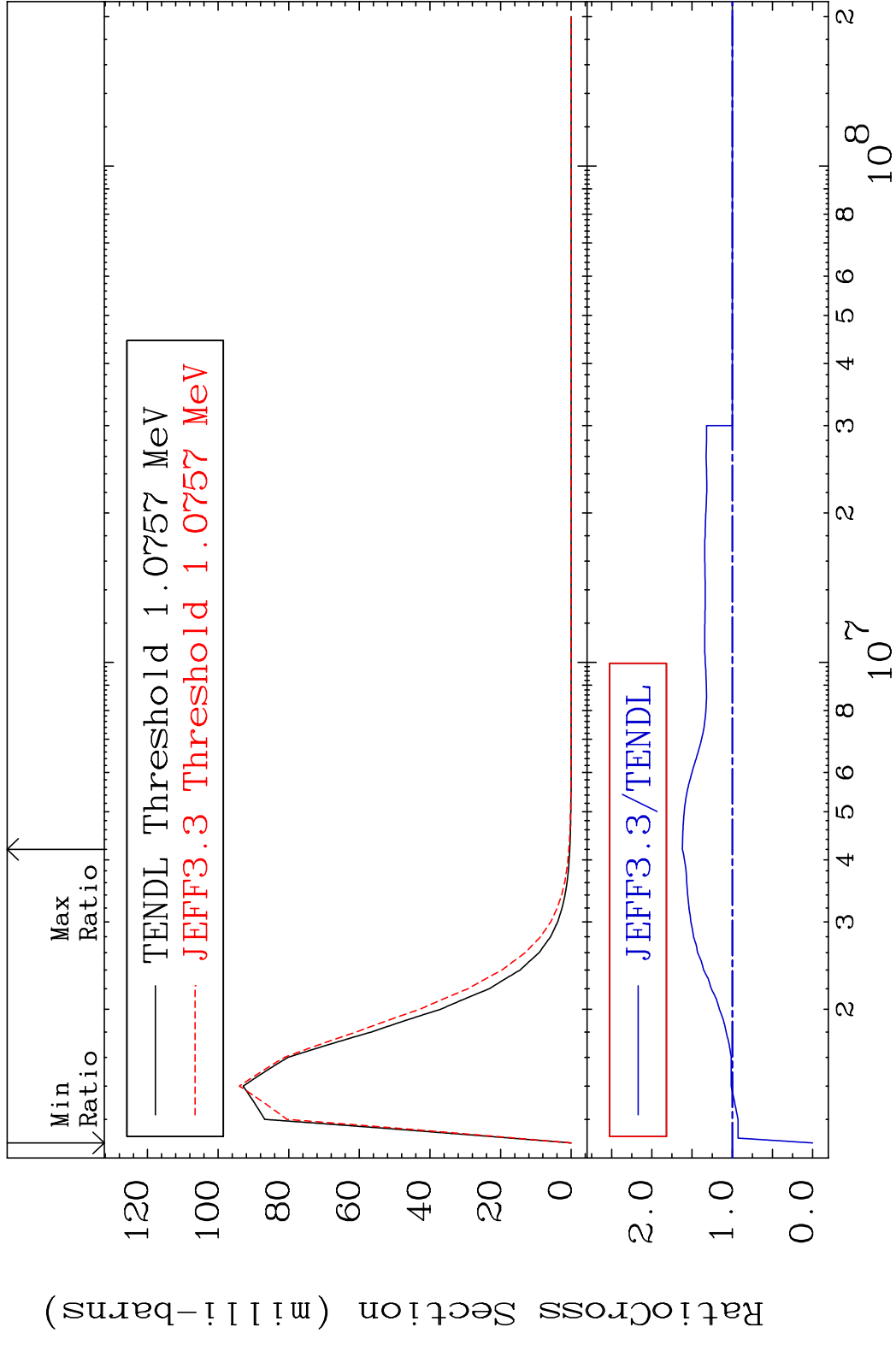




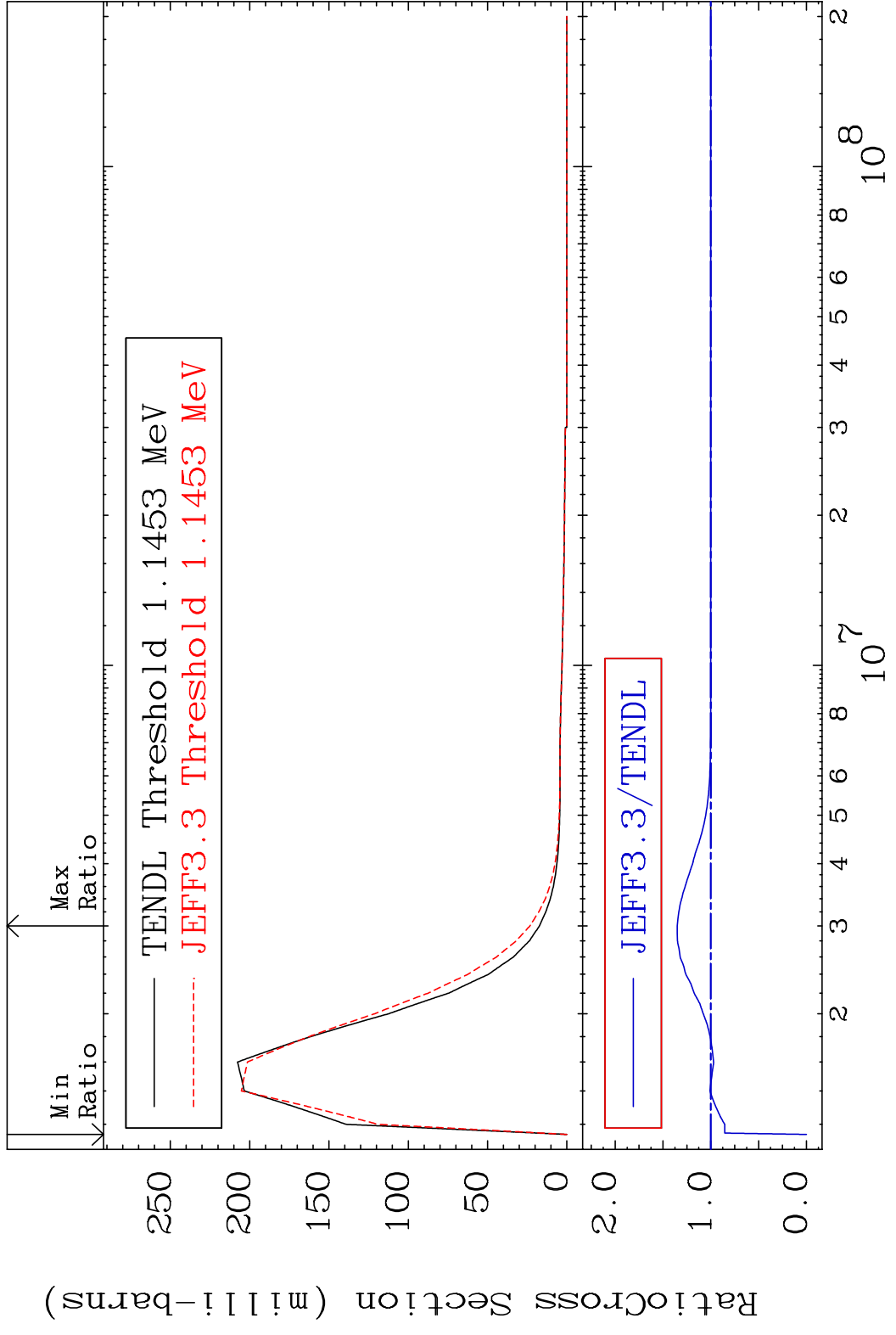
MAT 7031 MT= 54 (n,n') Level 70-Yb-170  
 Cross Section -100.0 To 49.68 %



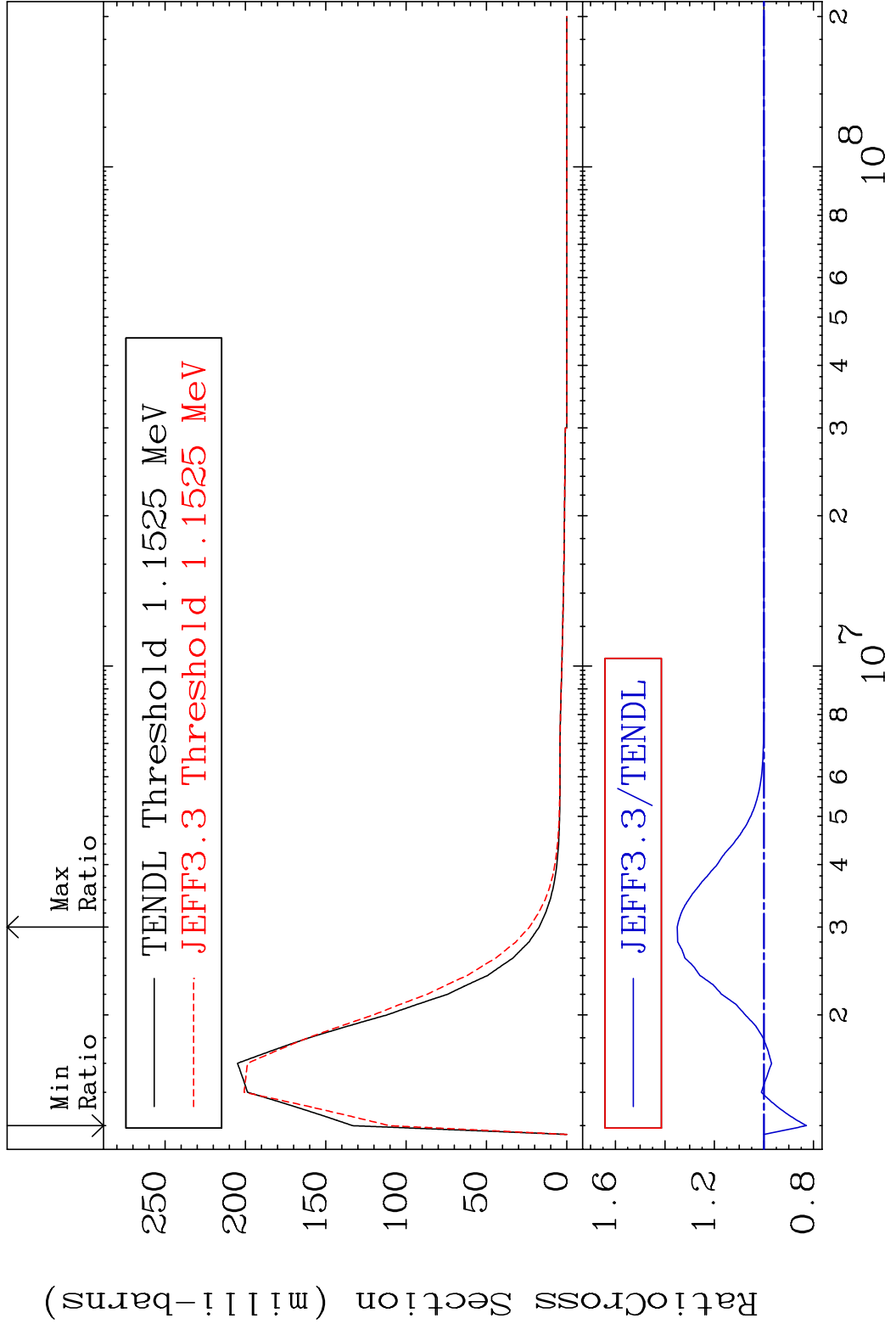
MAT 7031      MT= 55 (n,n') Level      70-Yb-170  
 Cross Section    -100.0 To 62.10 %



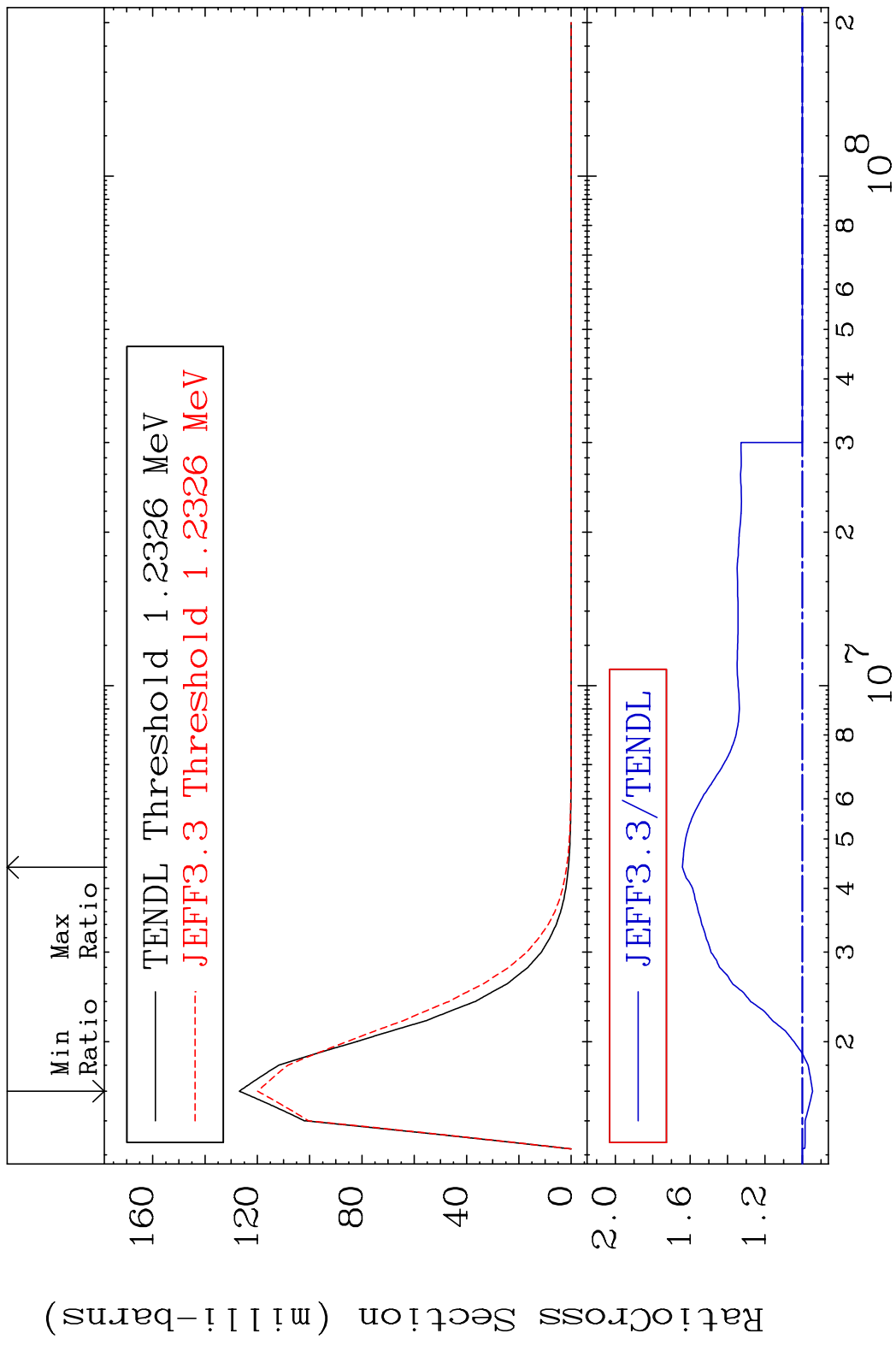
MAT 7031 MT= 56 (n,n') Level 70-Yb-170  
 Cross Section -100.0 To 35.13 %



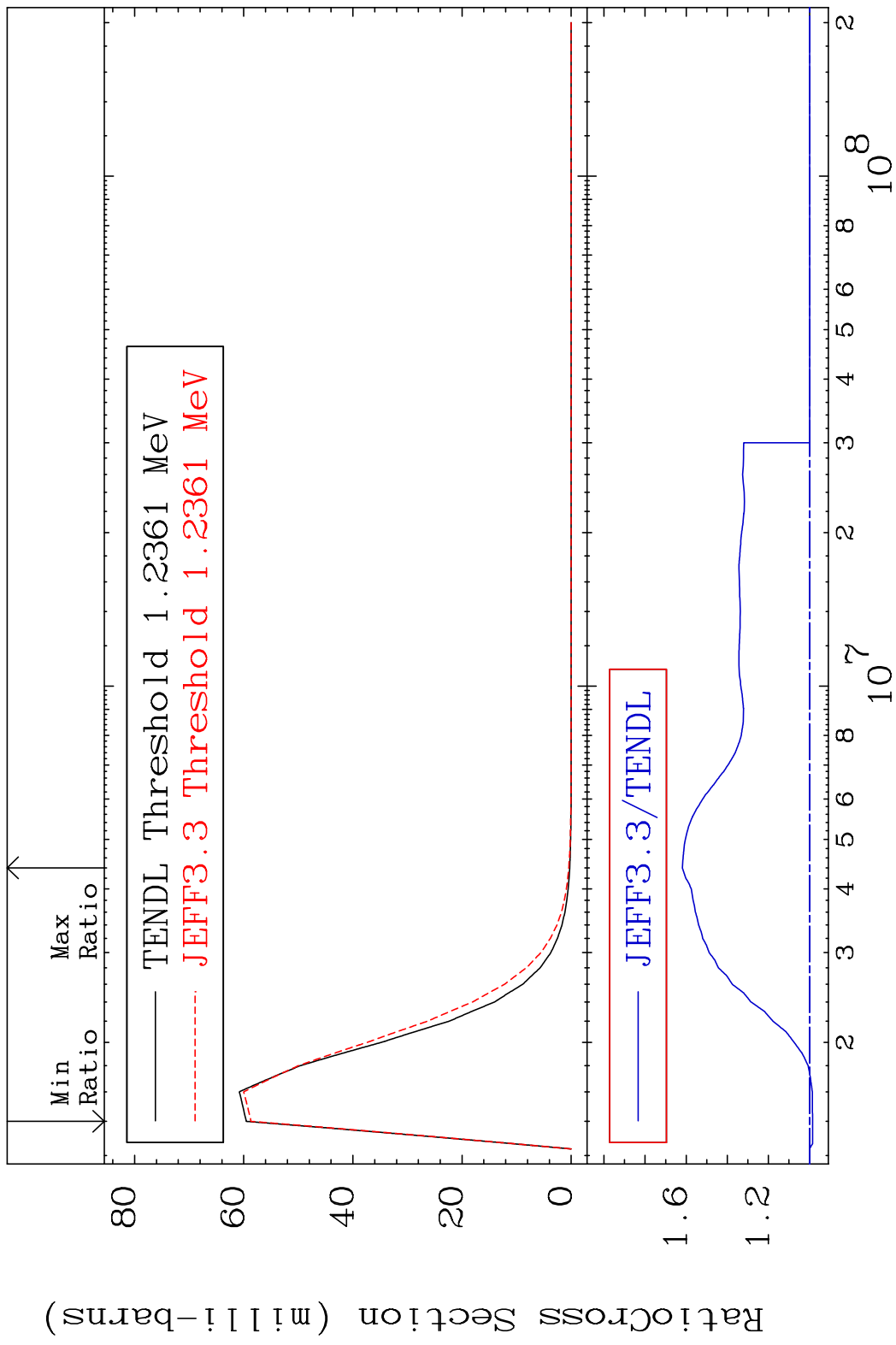
MAT 7031 MT= 57 (n, n') Level 70-Yb-170  
 Cross Section -17.12 To 35.04 %



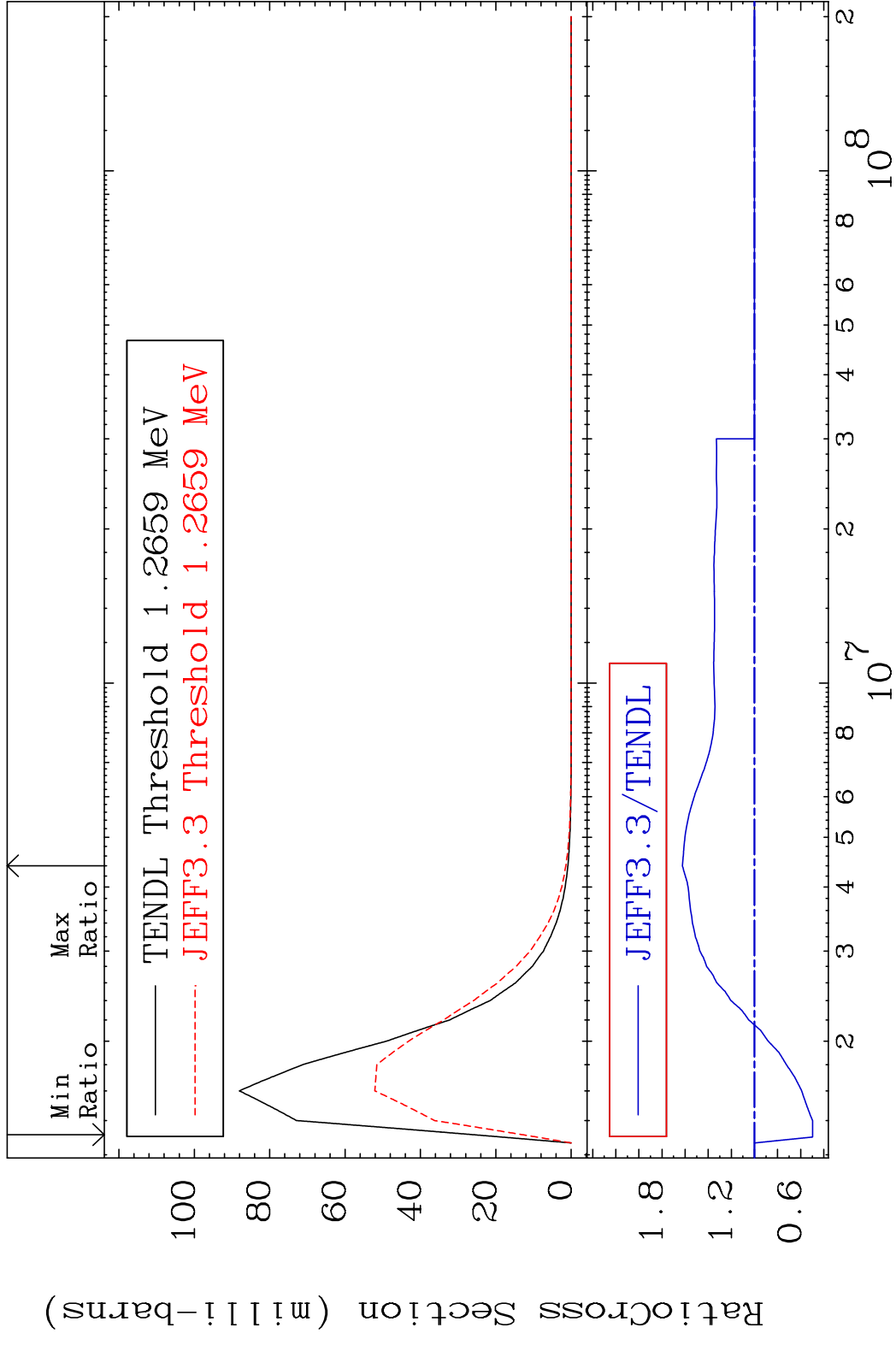
MAT 7031 MT= 58 (n,n') Level 70-Yb-170  
 Cross Section -5.499 To 64.14 %



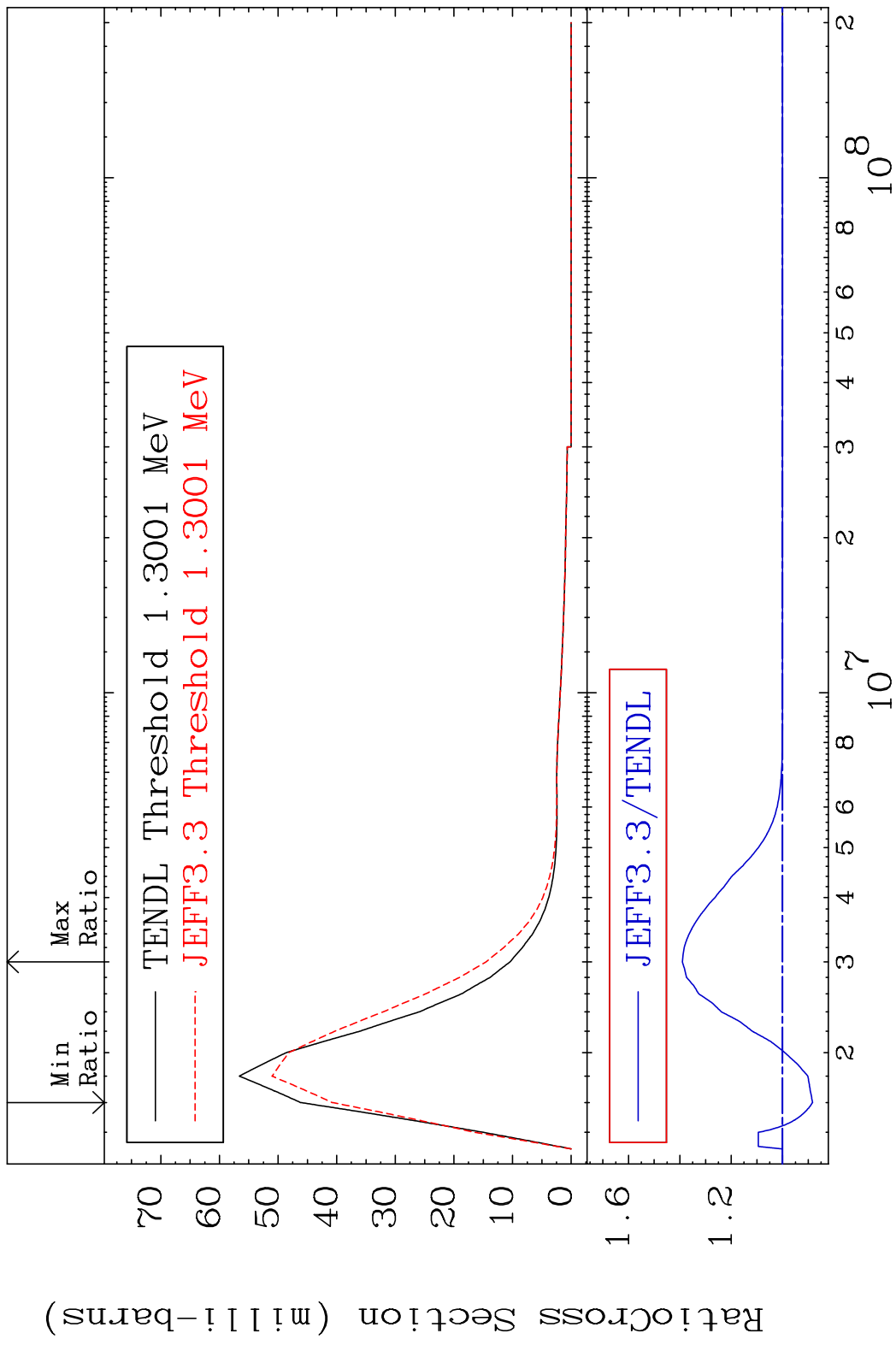
MAT 7031 MT= 59 (n,n') Level 70-Yb-170  
 Cross Section -1.461 To 61.87 %



MAT 7031 MT= 60 (n,n') Level 70-Yb-170  
 Cross Section -50.25 To 62.40 %

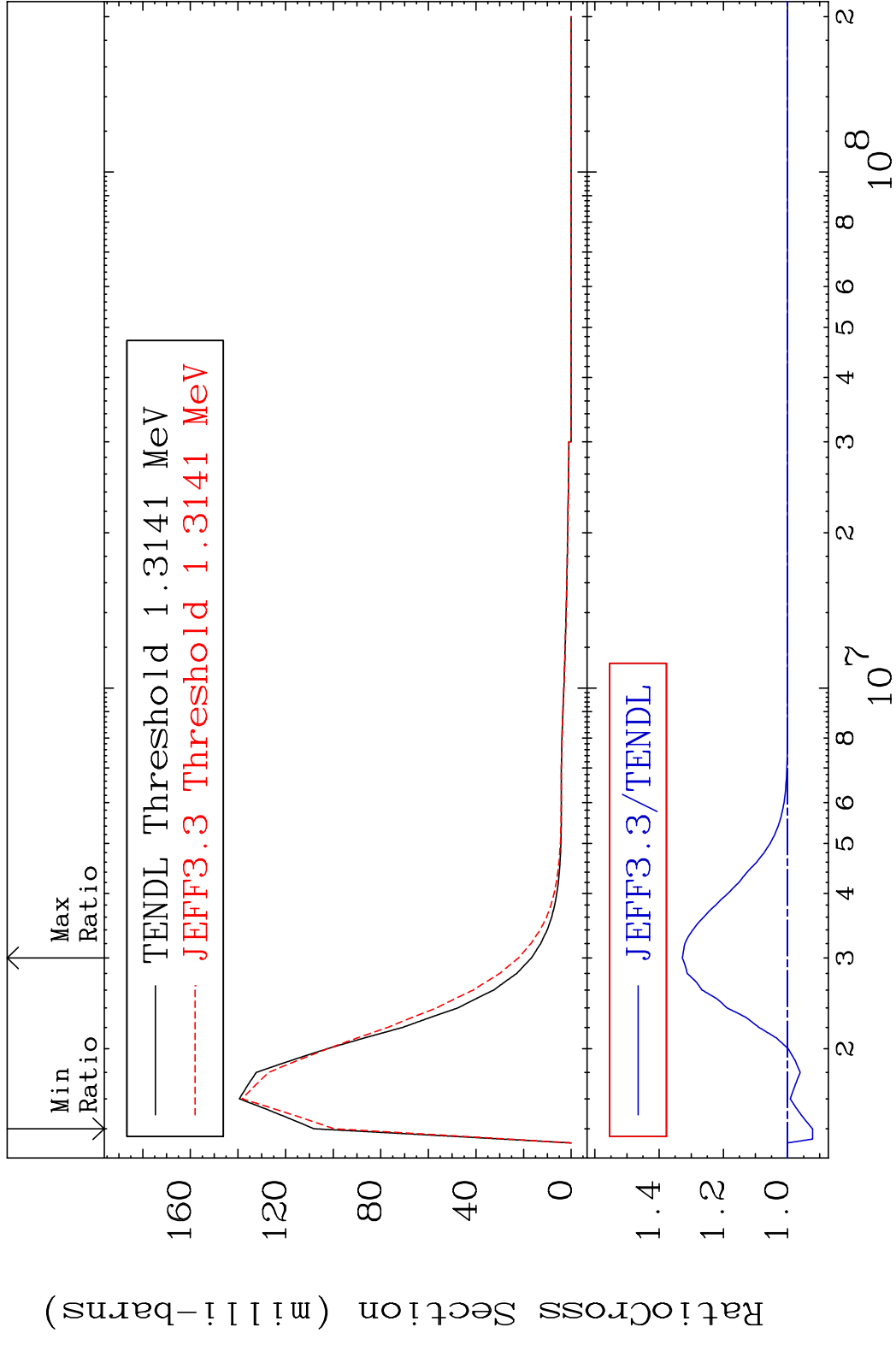


MAT 7031 MT= 61 (n,n') Level 70-Yb-170  
 Cross Section -11.68 To 39.04 %

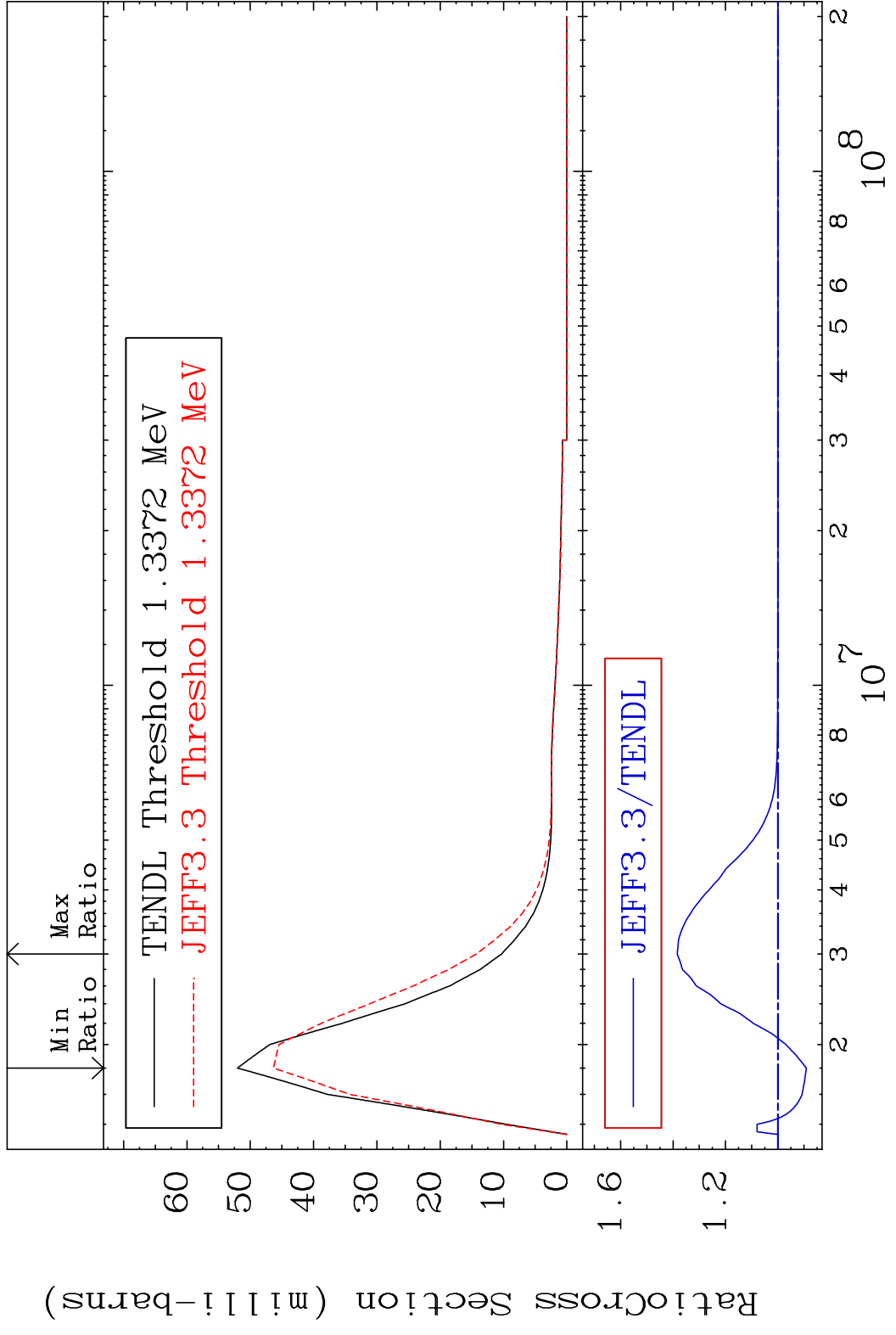




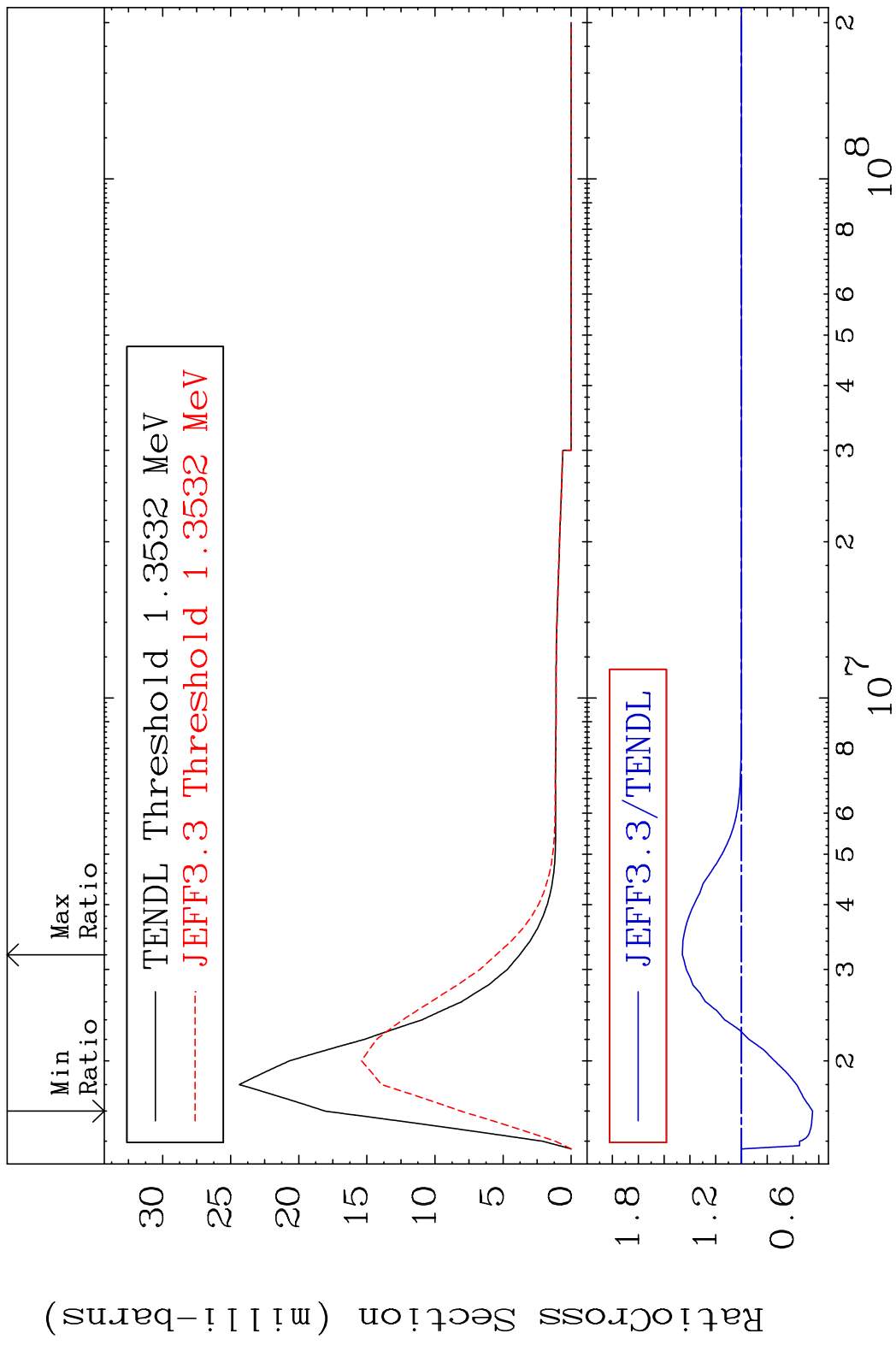
MAT 7031 MT= 62 (n,n') Level 70-Yb-170  
 Cross Section -7.769 To 32.76 %



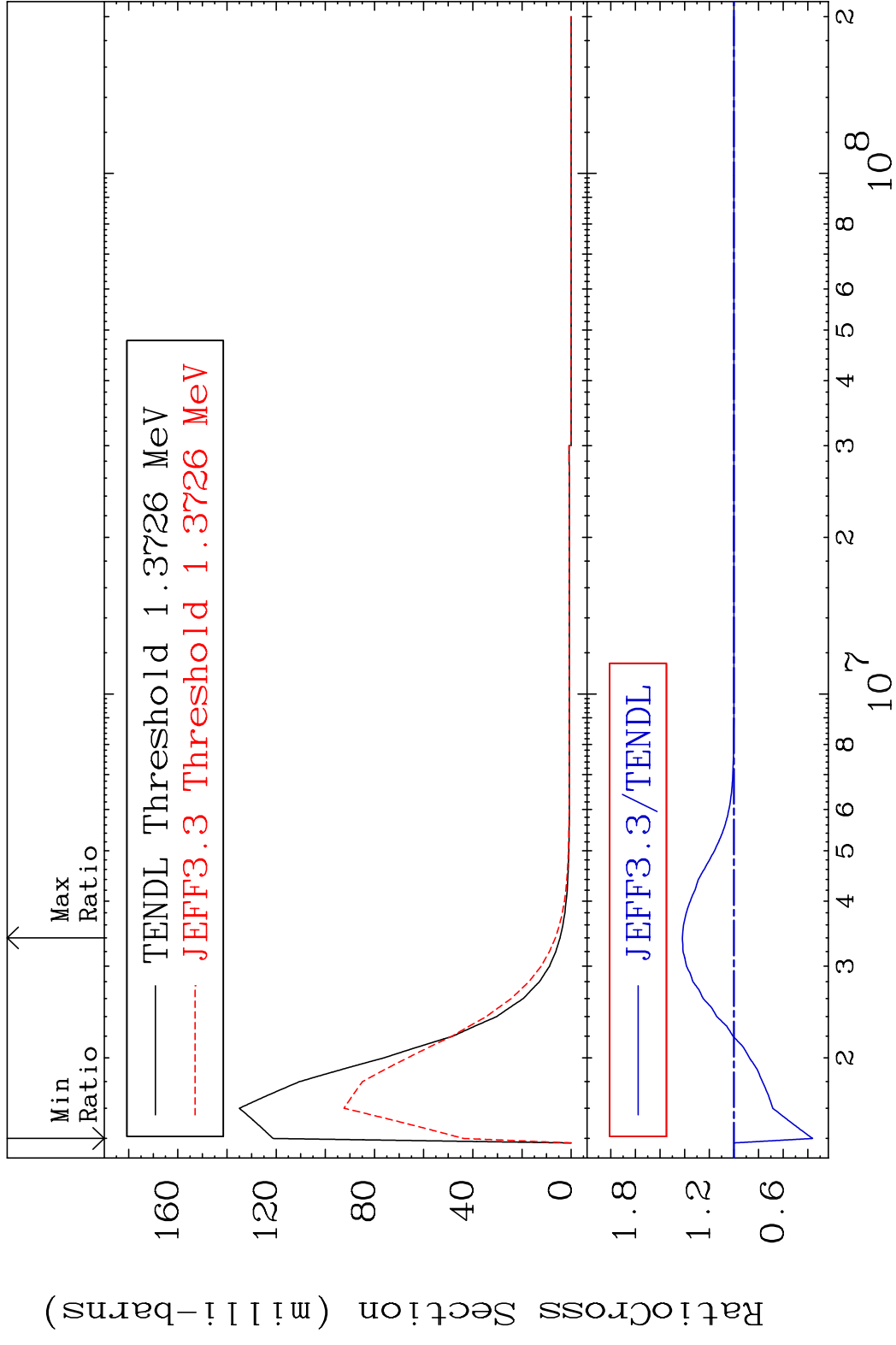
MAT 7031 MT= 63 (n, n') Level 70-Yb-170  
 Cross Section -10.90 To 38.42 %



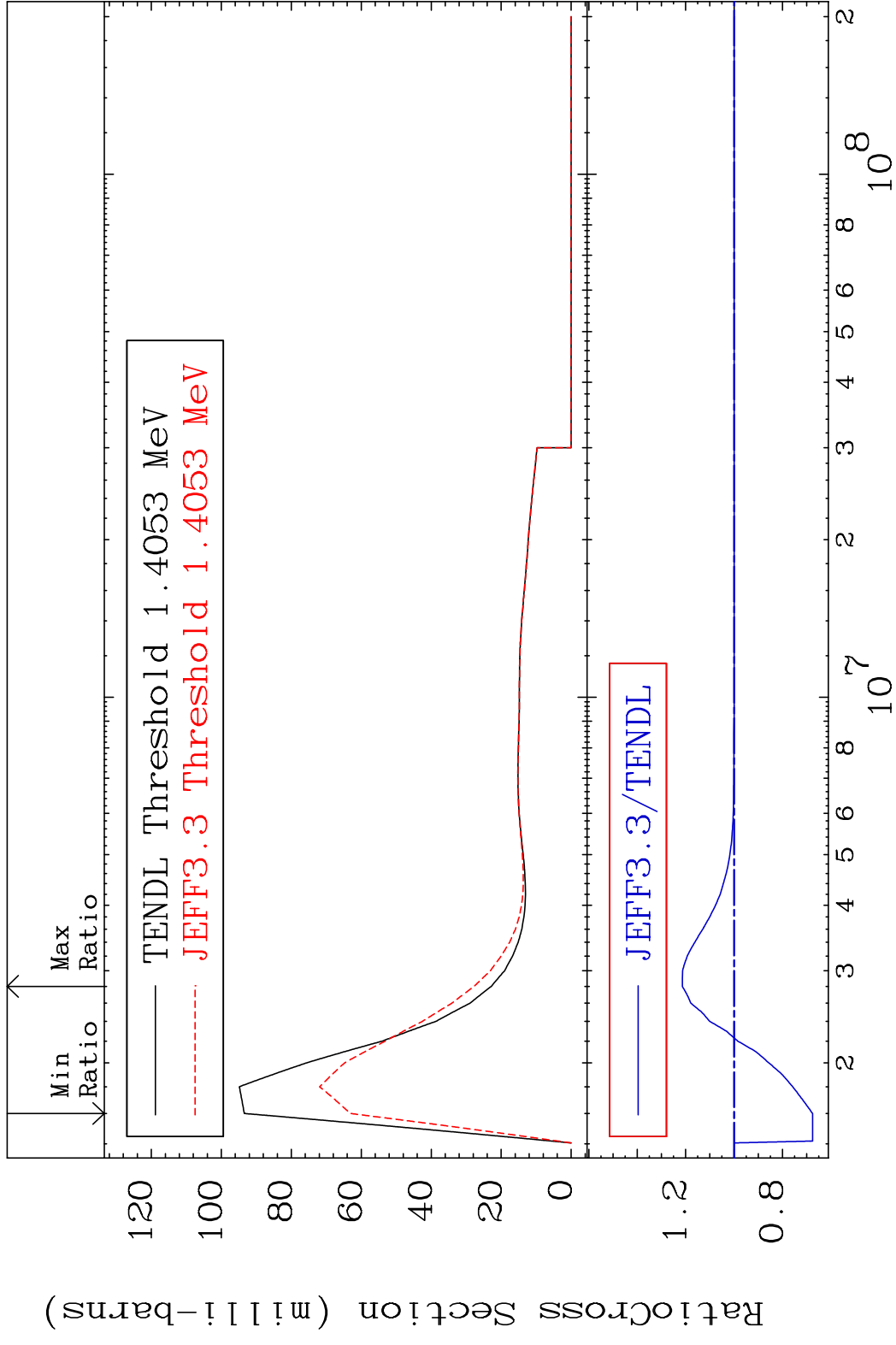
MAT 7031 MT= 64 (n,n') Level 70-Yb-170  
 Cross Section -55.15 To 45.81 %



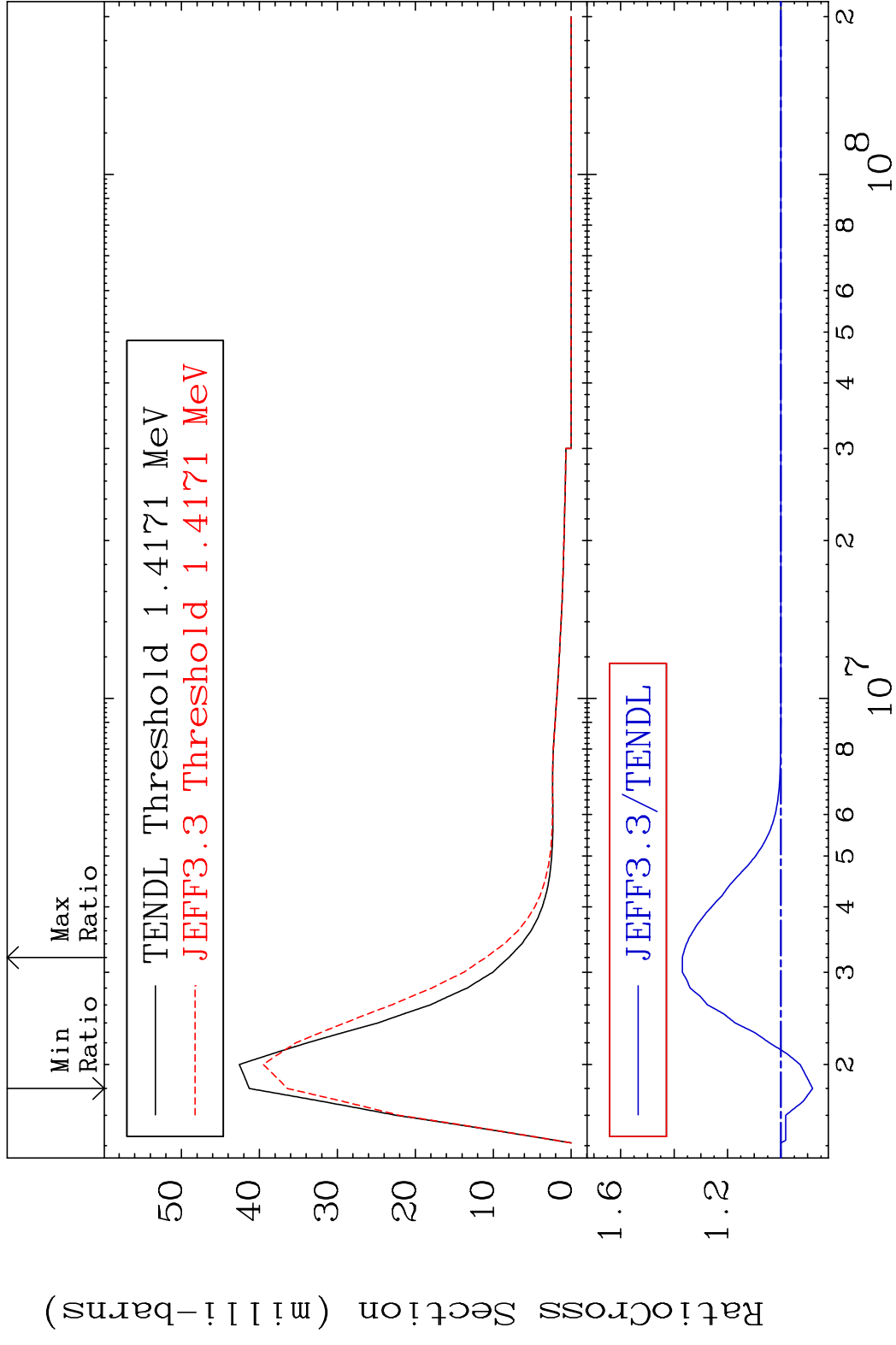
MAT 7031 MT= 65 (n,n') Level 70-Yb-170  
 Cross Section -63.83 To 41.84 %



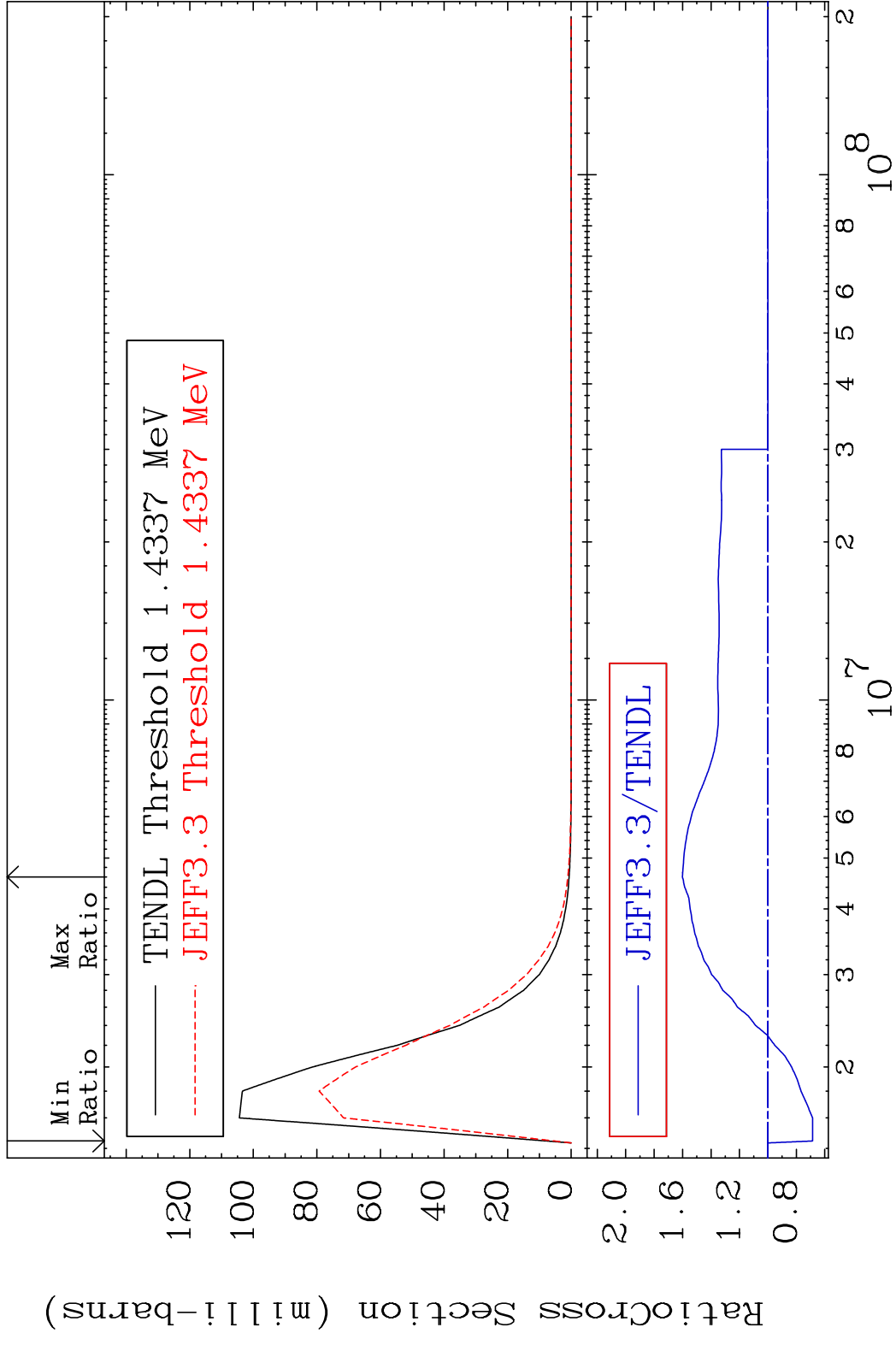
MAT 7031 MT= 66 (n,n') Level 70-Yb-170  
 Cross Section -32.43 To 21.36 %



MAT 7031 MT= 67 (n, n') Level 70-Yb-170  
 Cross Section -11.85 To 36.91 %



MAT 7031 MT= 68 (n,n') Level 70-Yb-170  
 Cross Section -31.39 To 60.15 %

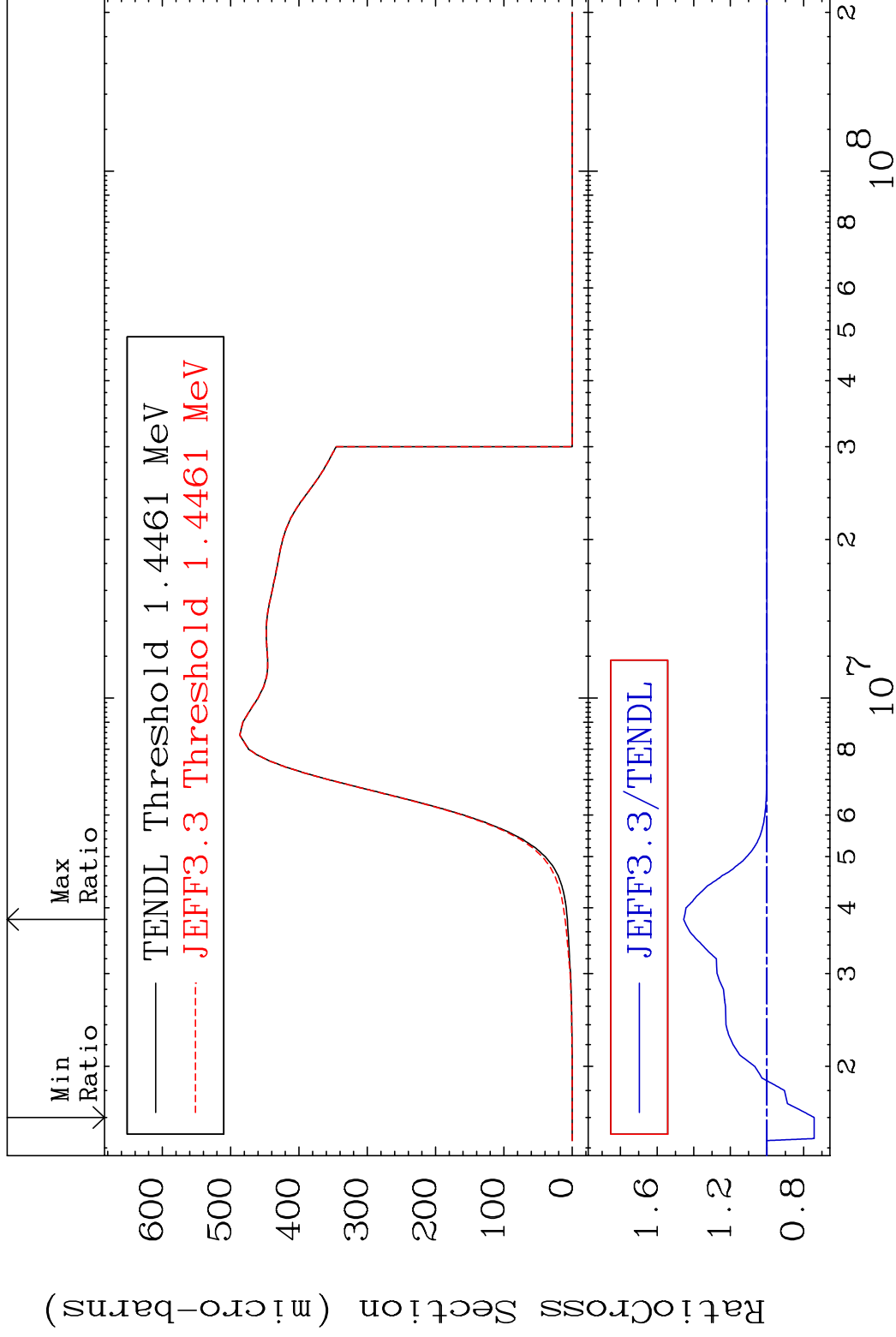


MAT 7031

MT= 69 (n,n') Level

70-Yb-170

Cross Section -25.75 To 45.49 %



39

Incident Energy (eV)

70-Yb-170

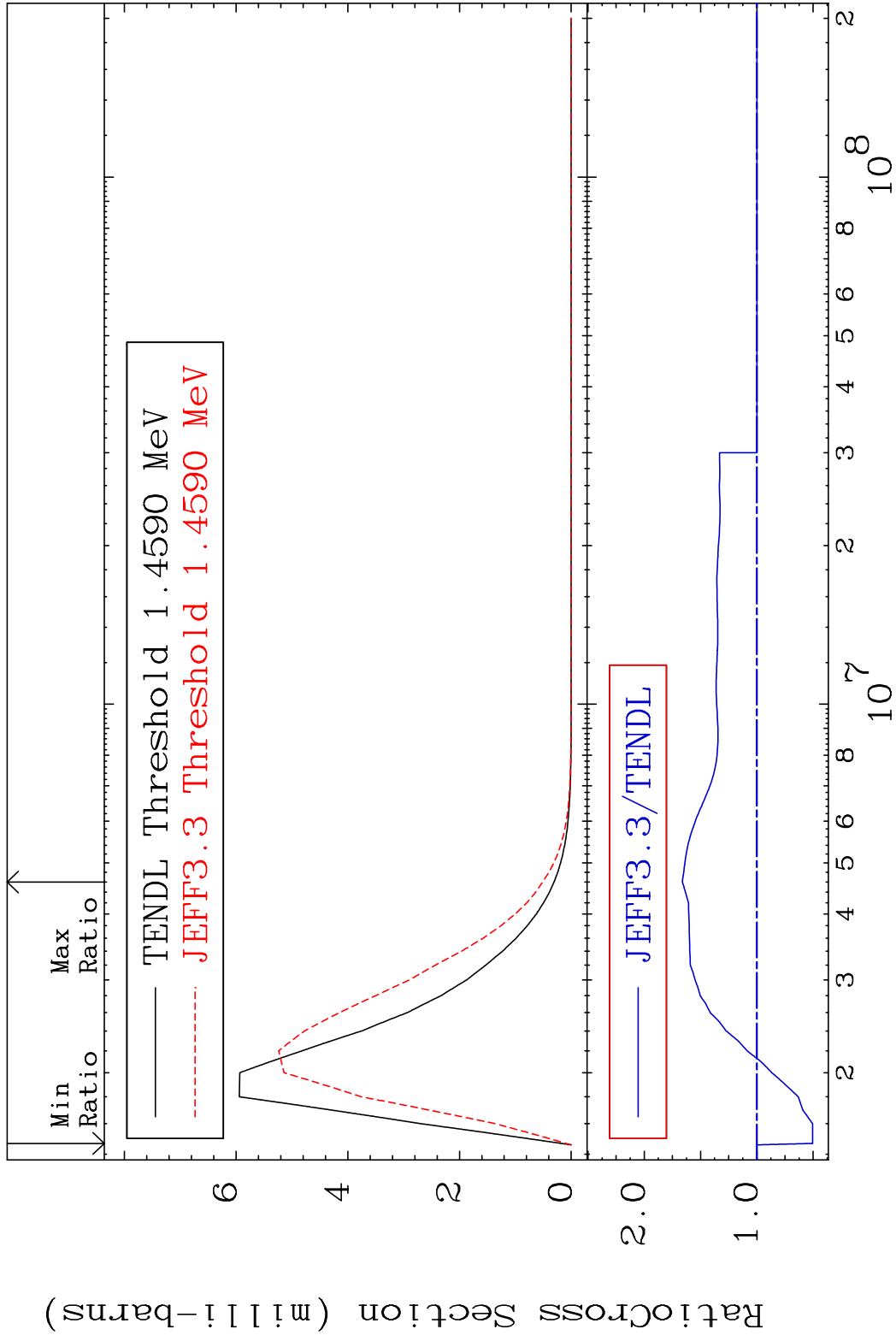


MAT 7031

MT= 70 (n, n') Level

70-Yb-170

Cross Section -49.46 To 66.16 %

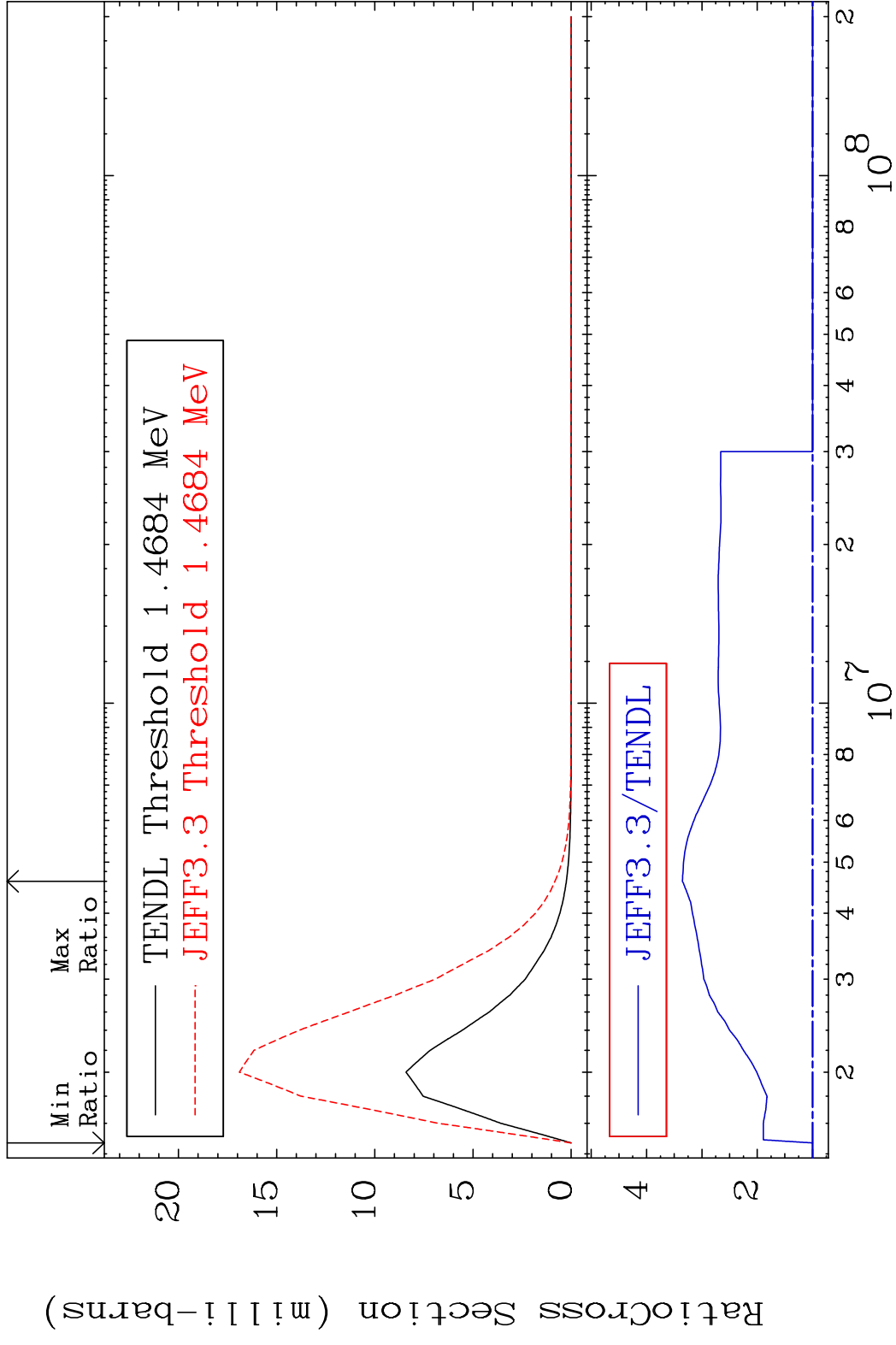


40

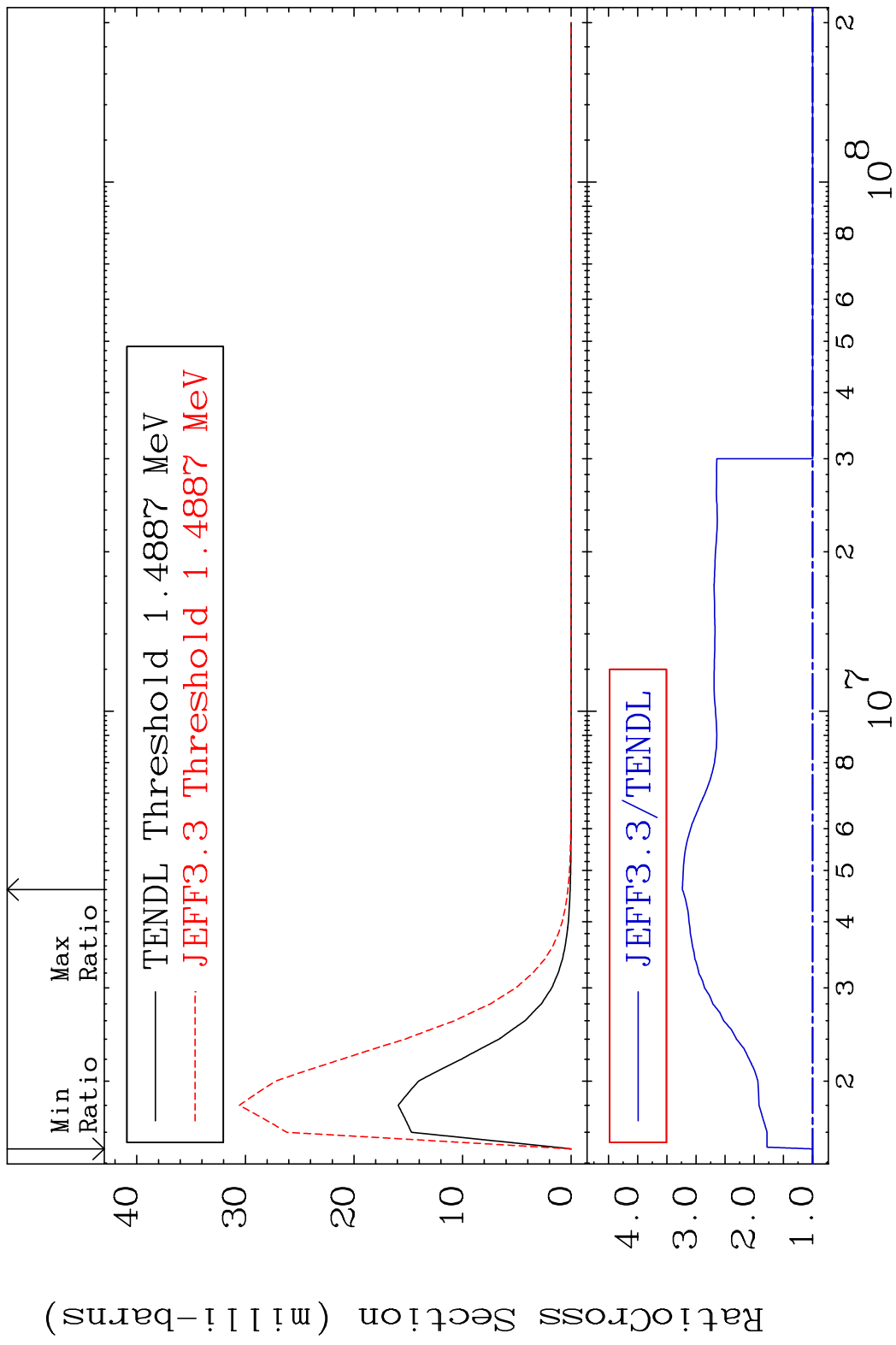
Incident Energy (eV)

70-Yb-170

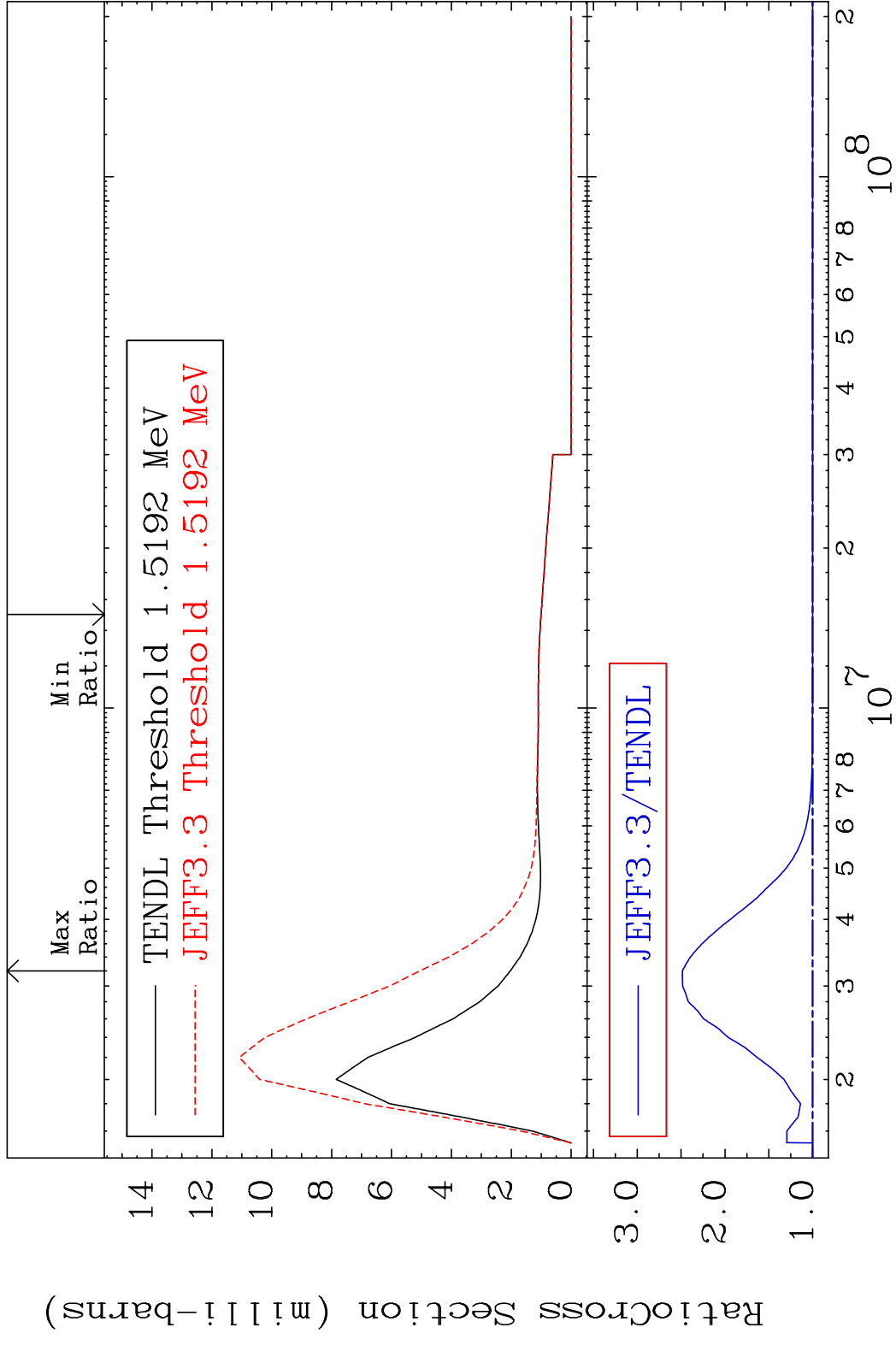
MAT 7031 MT= 71 (n, n') Level 70-Yb-170  
 Cross Section 0.000 To 235.4 %



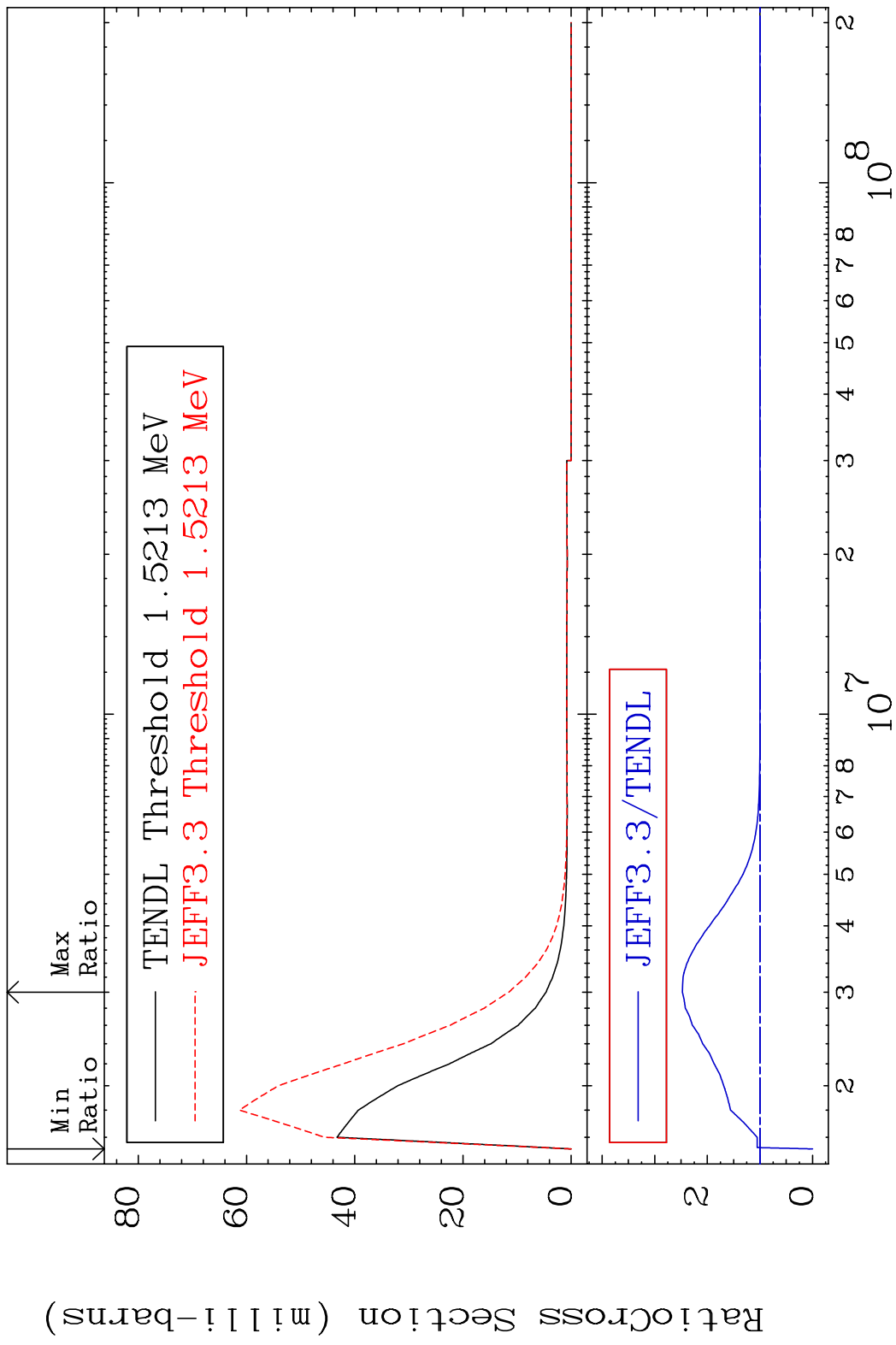
MAT 7031      MT= 72 (n, n') Level      70-Yb-170  
 Cross Section    0.000    To 223.4 %



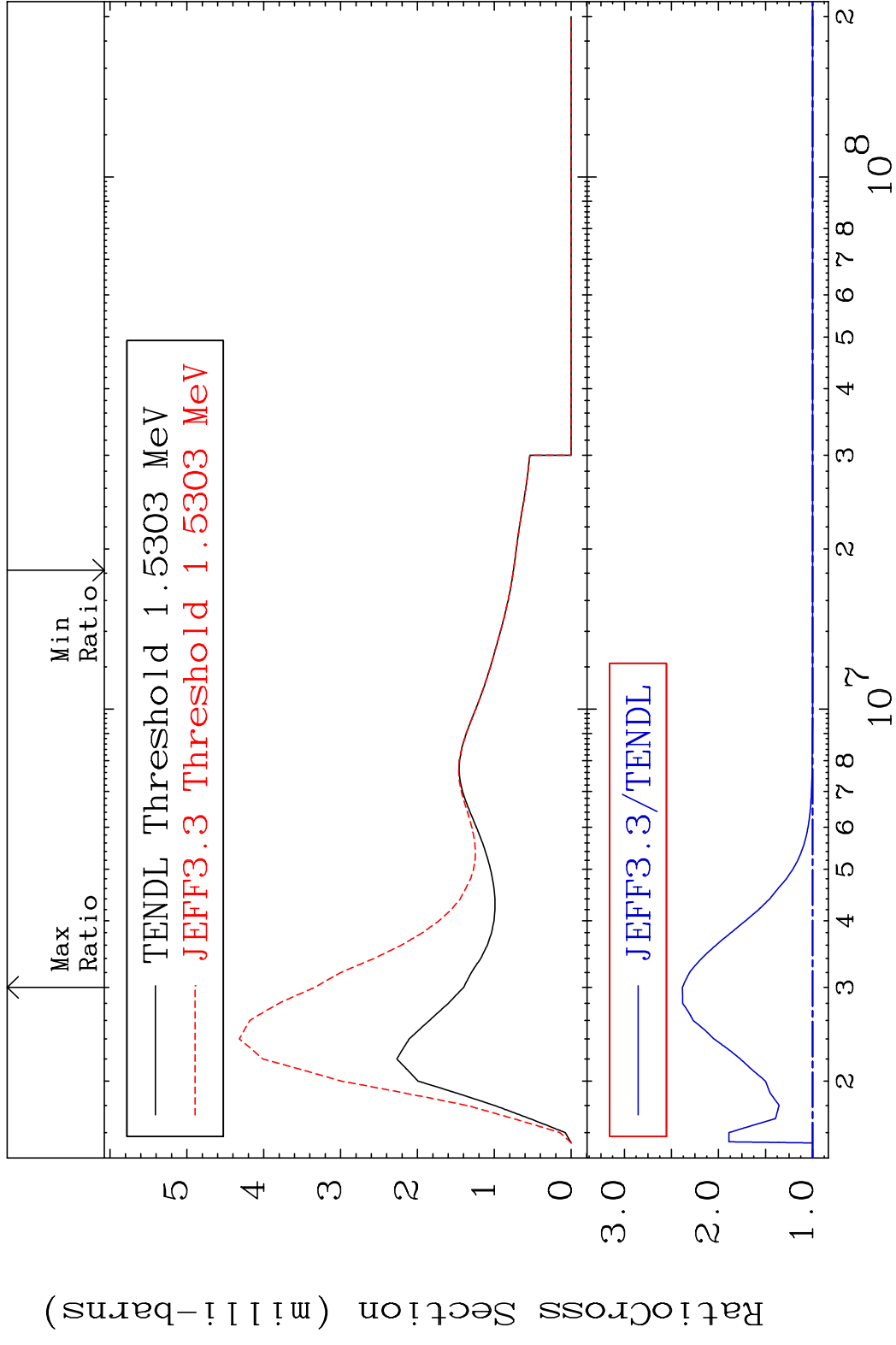
MAT 7031 MT= 73 (n, n') Level 70-Yb-170  
 Cross Section 0.000 To 148.6 %



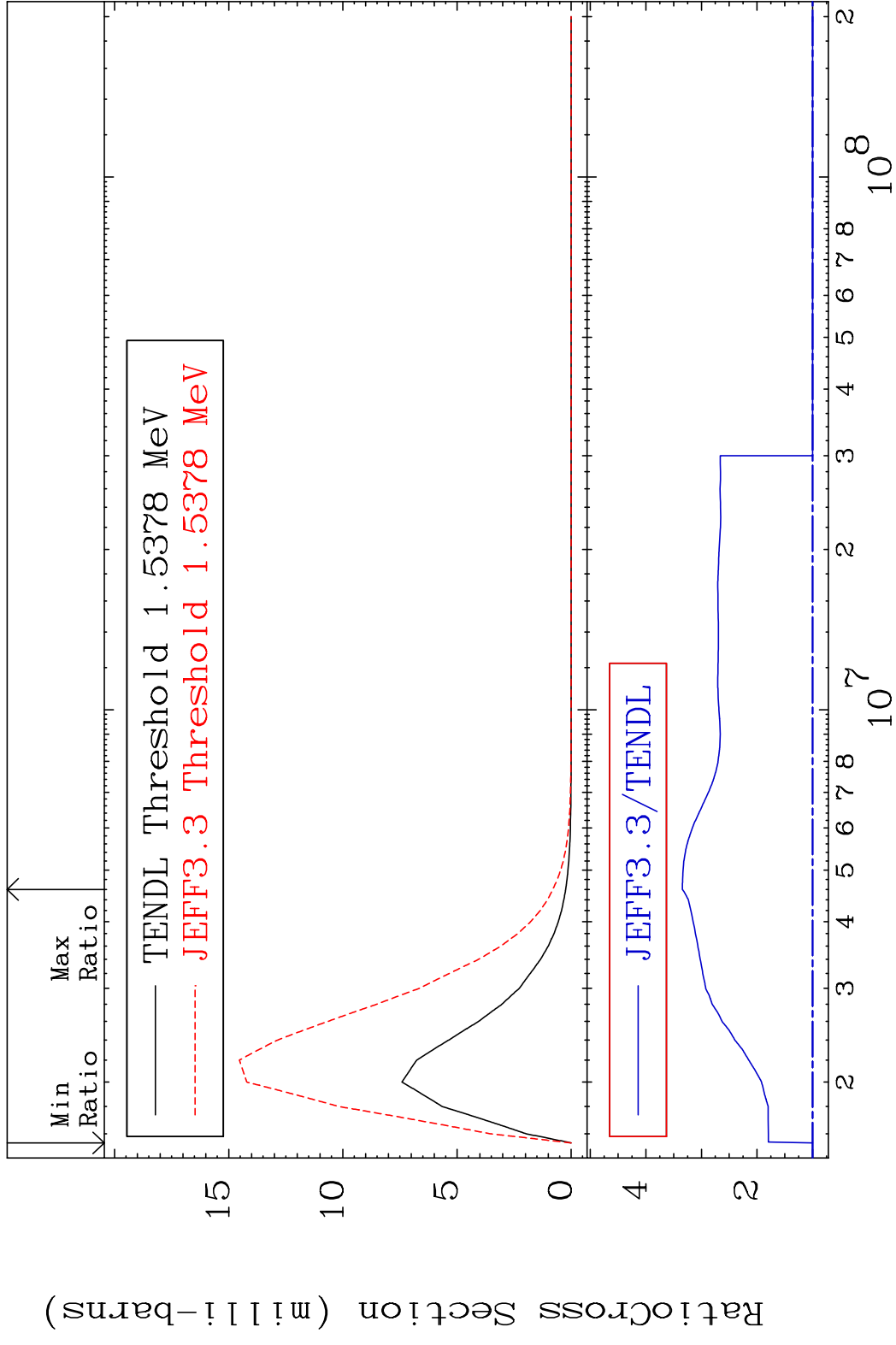
MAT 7031 MT= 74 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 147.5 %



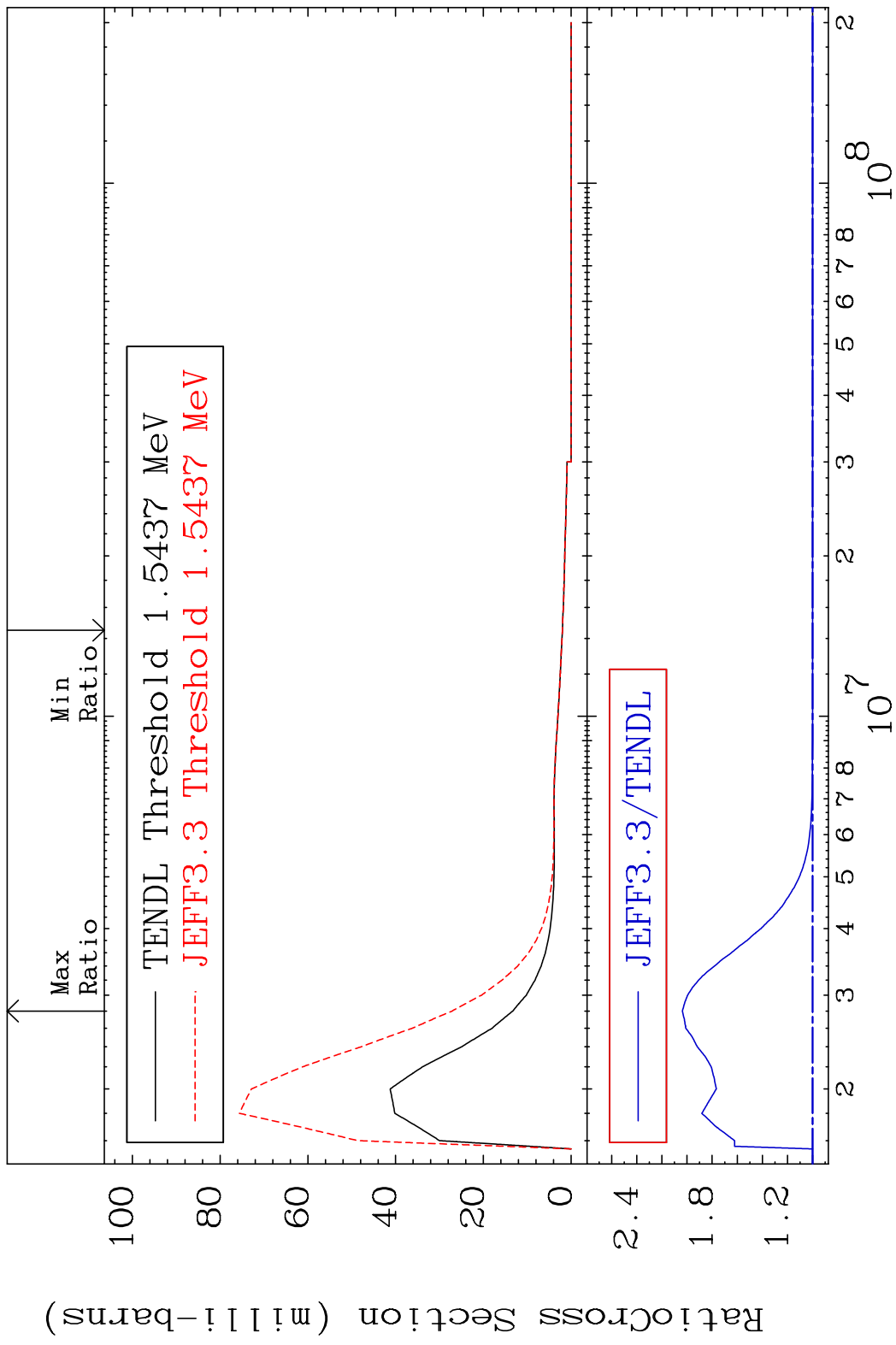
MAT 7031      MT= 75 (n,n') Level      70-Yb-170  
 Cross Section    0.000    To 138.4 %



MAT 7031      MT= 76 (n,n') Level      70-Yb-170  
 Cross Section    0.000    To 234.4 %

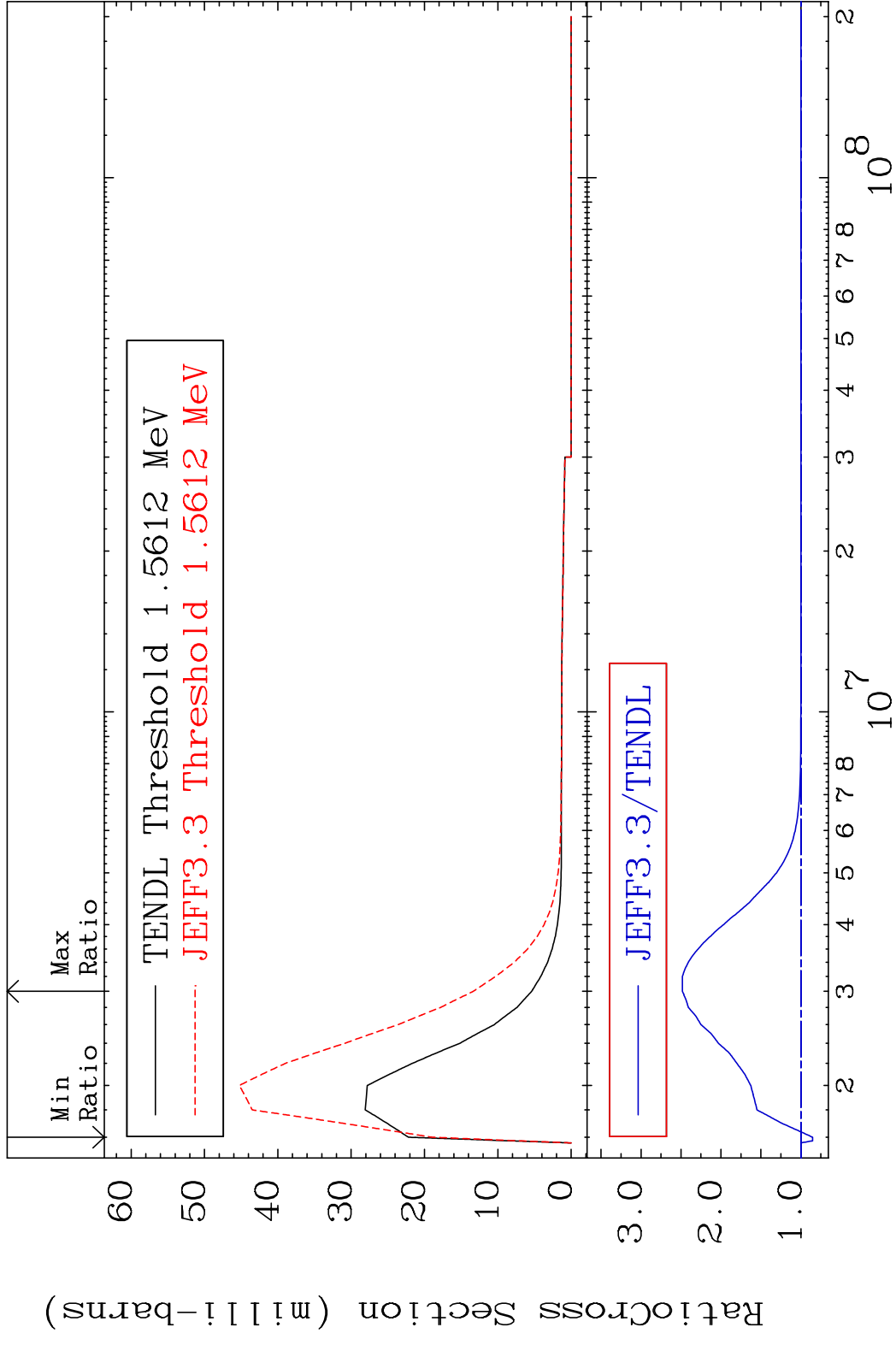


MAT 7031 MT= 77 (n,n') Level 70-Yb-170  
 Cross Section 0.000 To 103.7 %

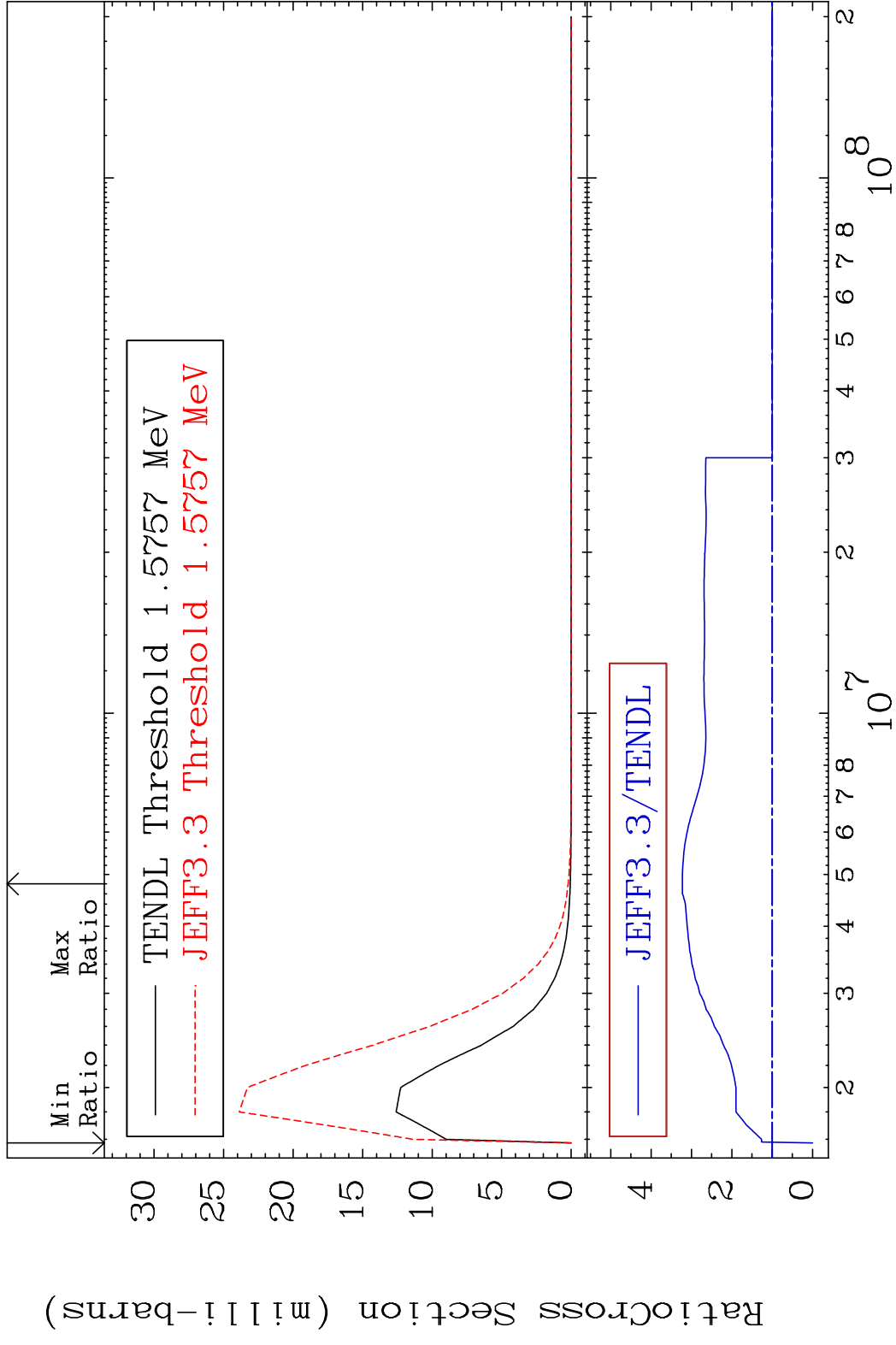




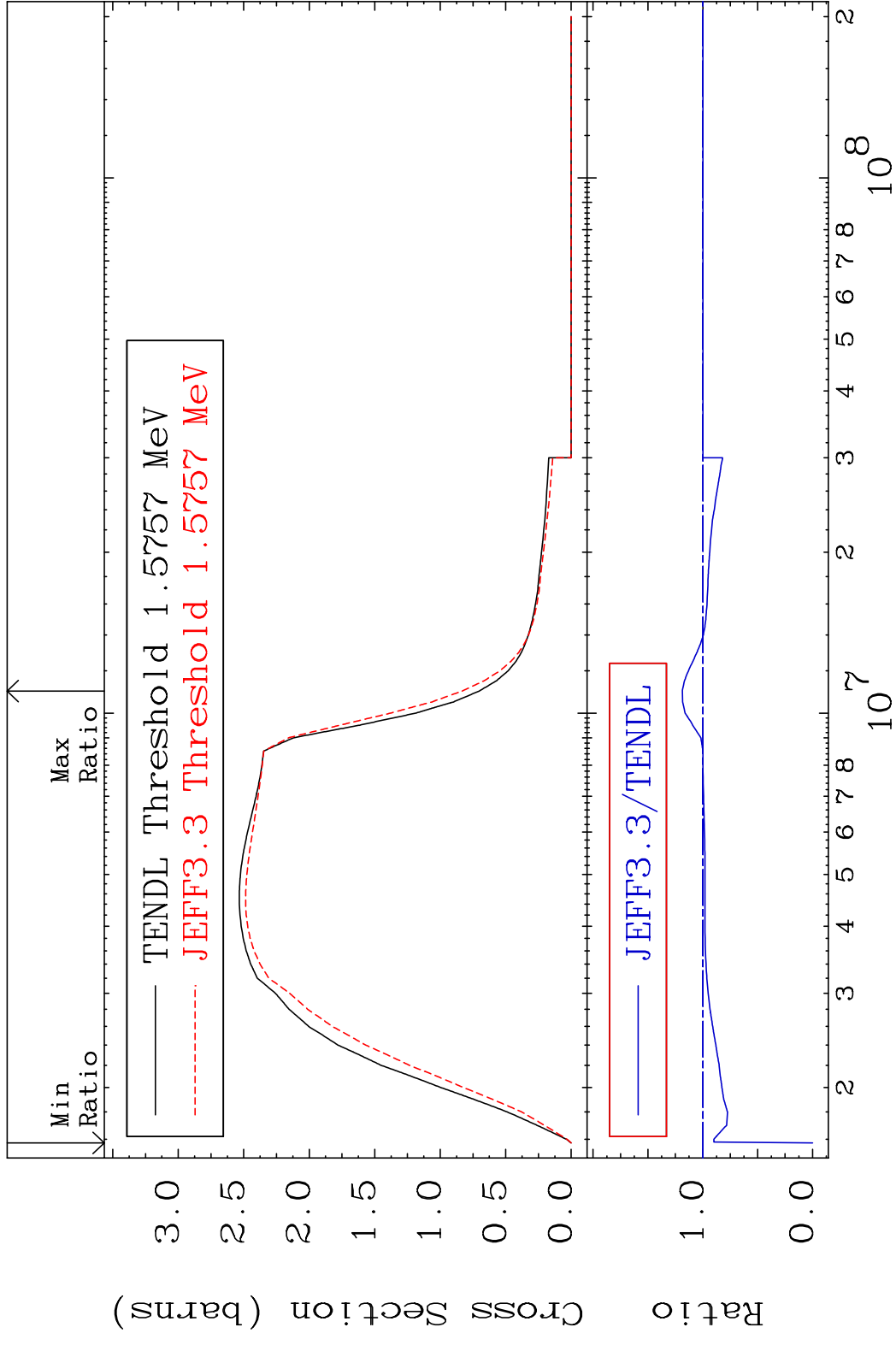
MAT 7031 MT= 78 (n,n') Level 70-Yb-170  
 Cross Section -14.59 To 148.3 %



MAT 7031      MT= 79 (n, n') Level      70-Yb-170  
 Cross Section    -100.0 To 222.5 %



MAT 7031 (n, n') Continuum 70-Yb-170  
 Cross Section -100.0 To 18.65 %

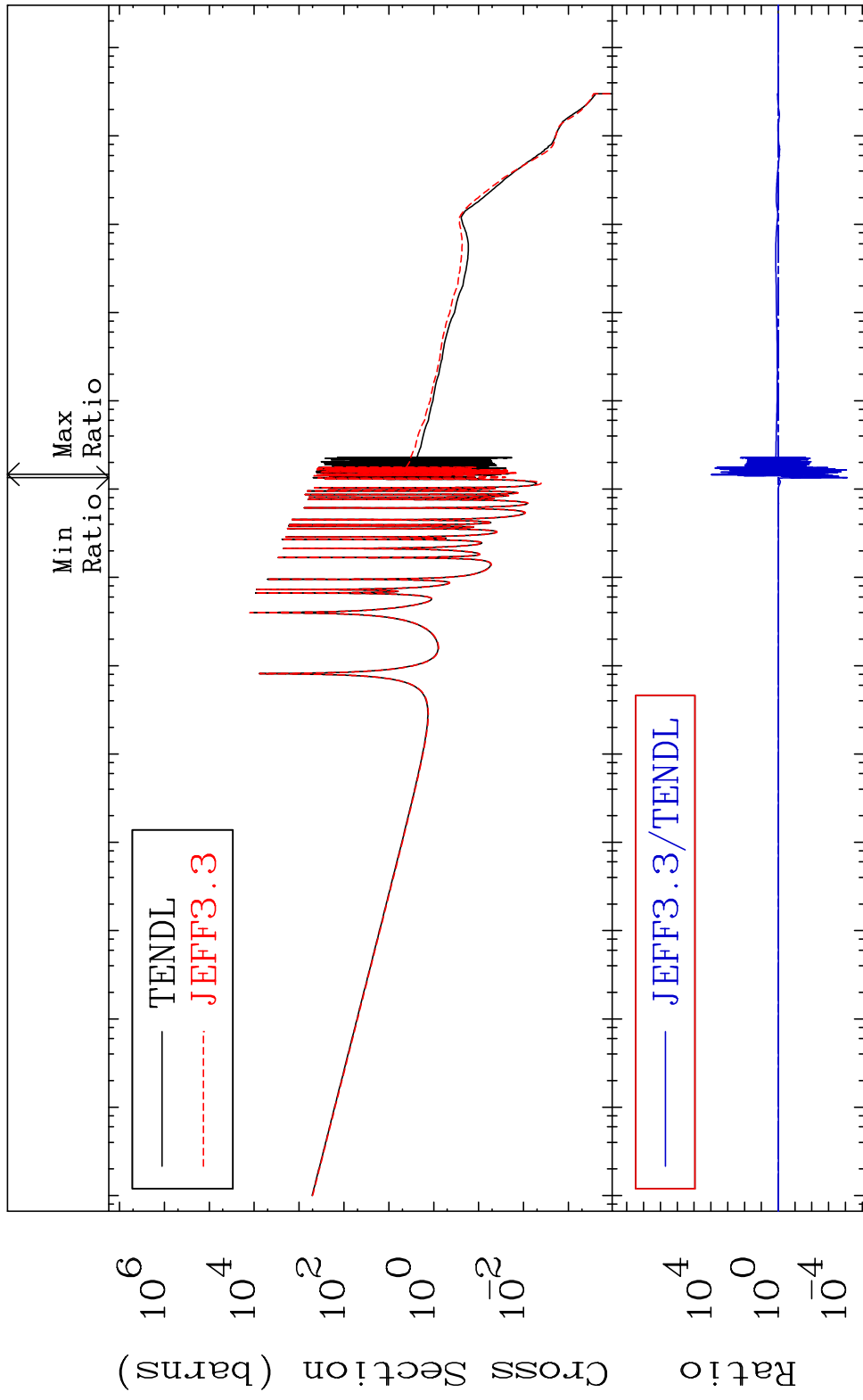


MAT 7031

70-Yb-170

(n,  $\gamma$ )

Cross Section -99.99 To 9999. %

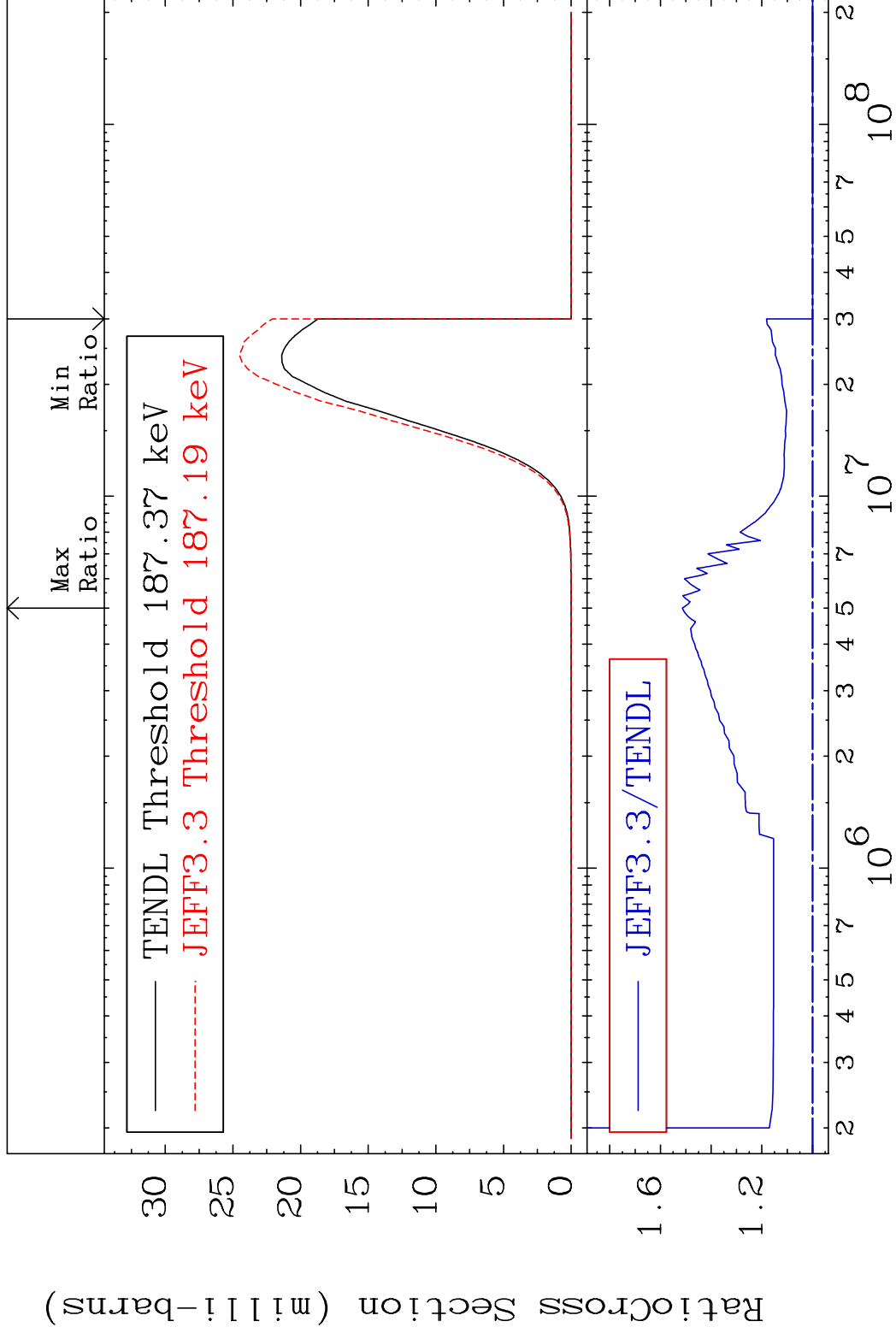


MAT 7031

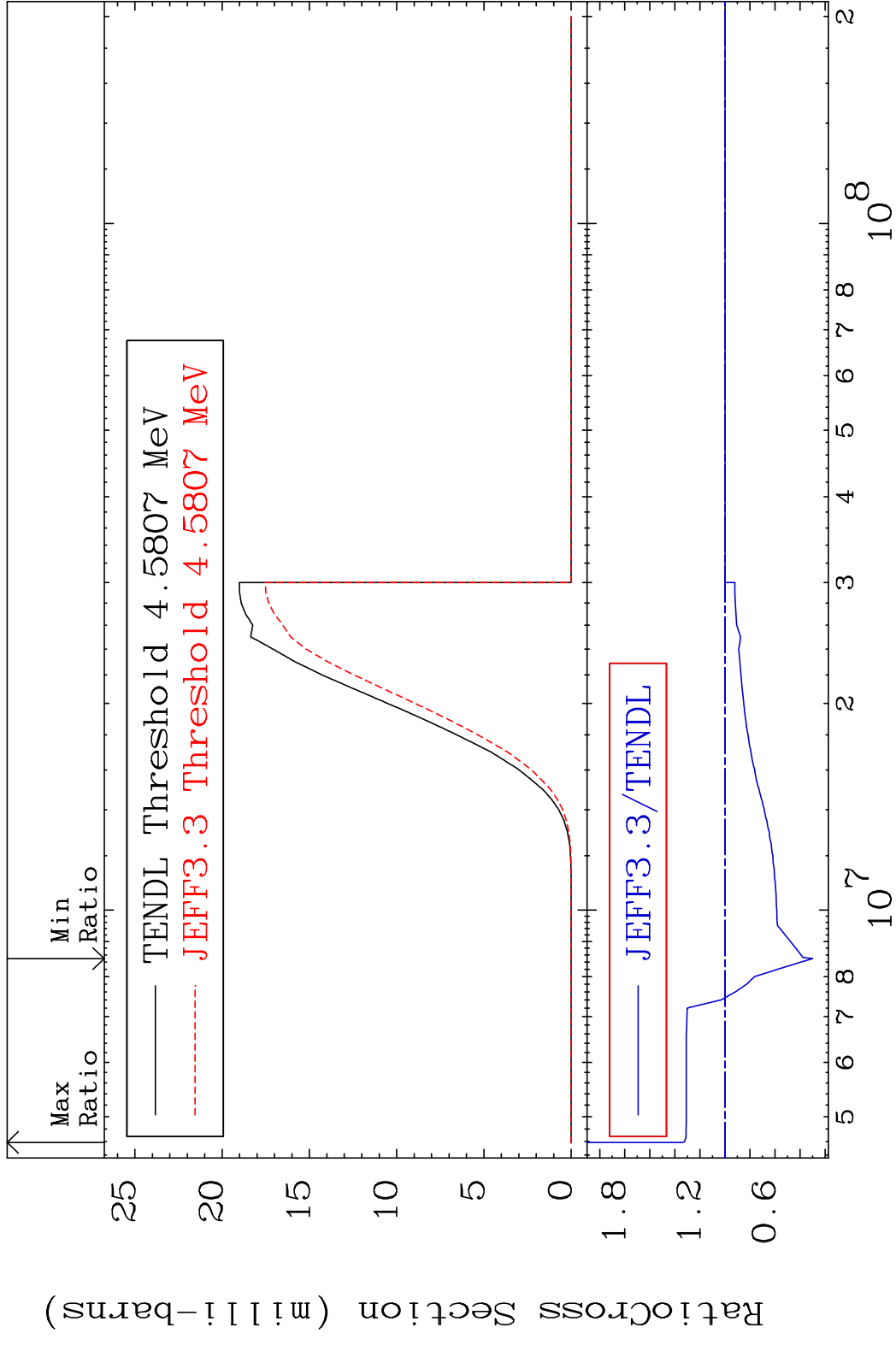
(n, p)

70-Yb-170

Cross Section 0.000 To 51.36 %



MAT 7031 (n,d) 70-Yb-170  
 Cross Section -69.98 To 34.02 %

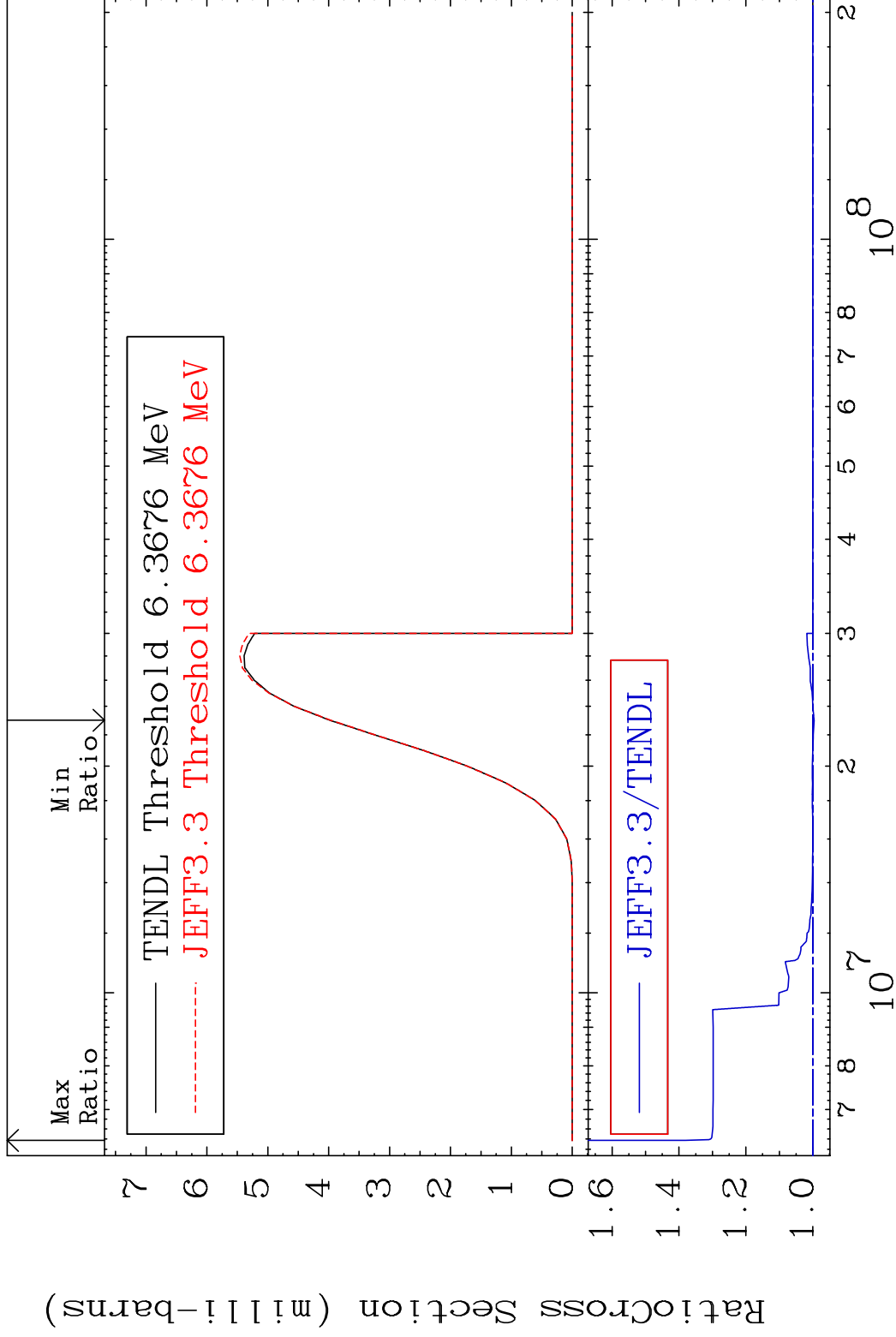


MAT 7031

(n, t)

70-Yb-170

Cross Section -0.397 To 38.60 %

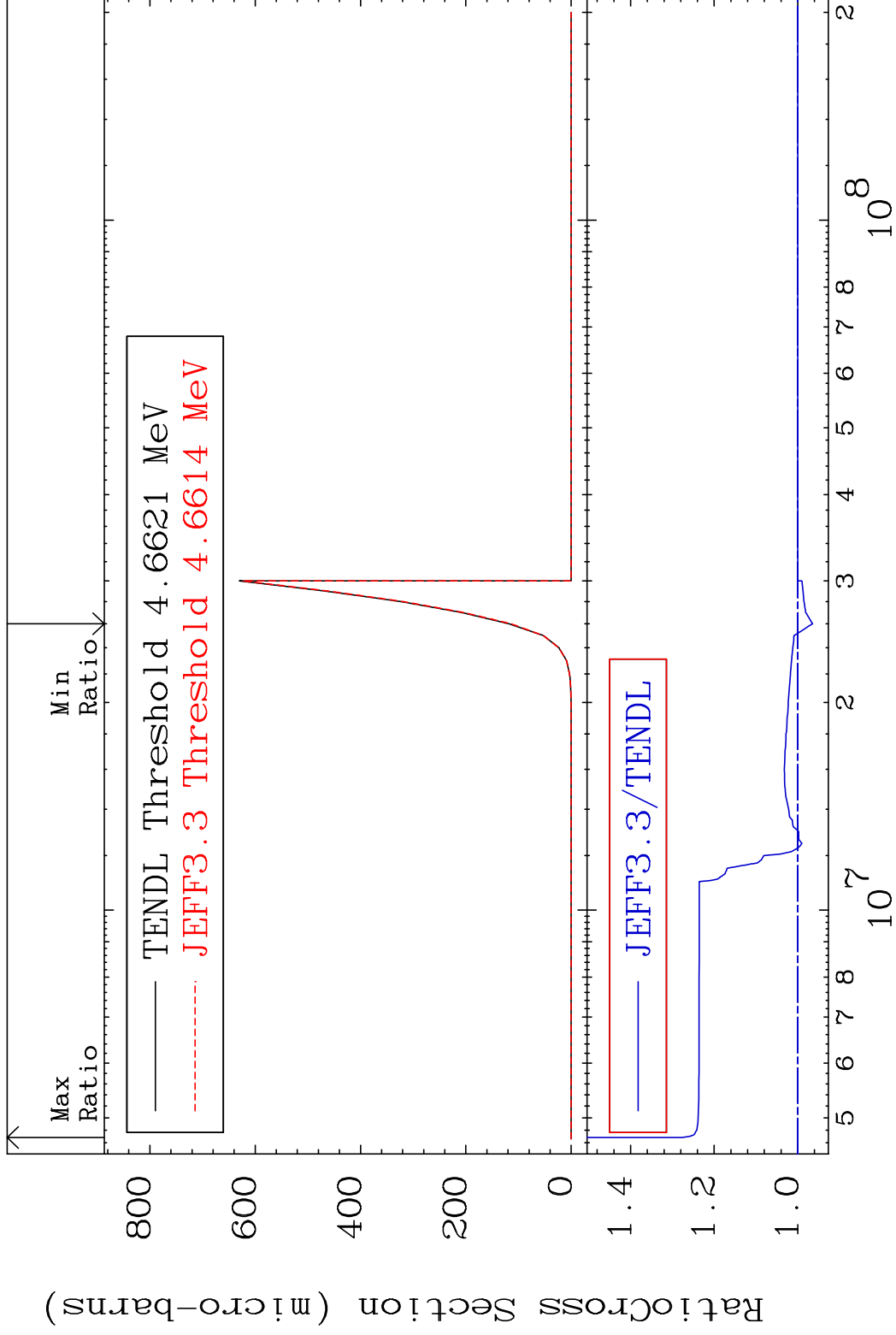


MAT 7031

(n, He-3)

70-Yb-170

Cross Section -3.533 To 27.62 %



55

Incident Energy (eV)

70-Yb-170

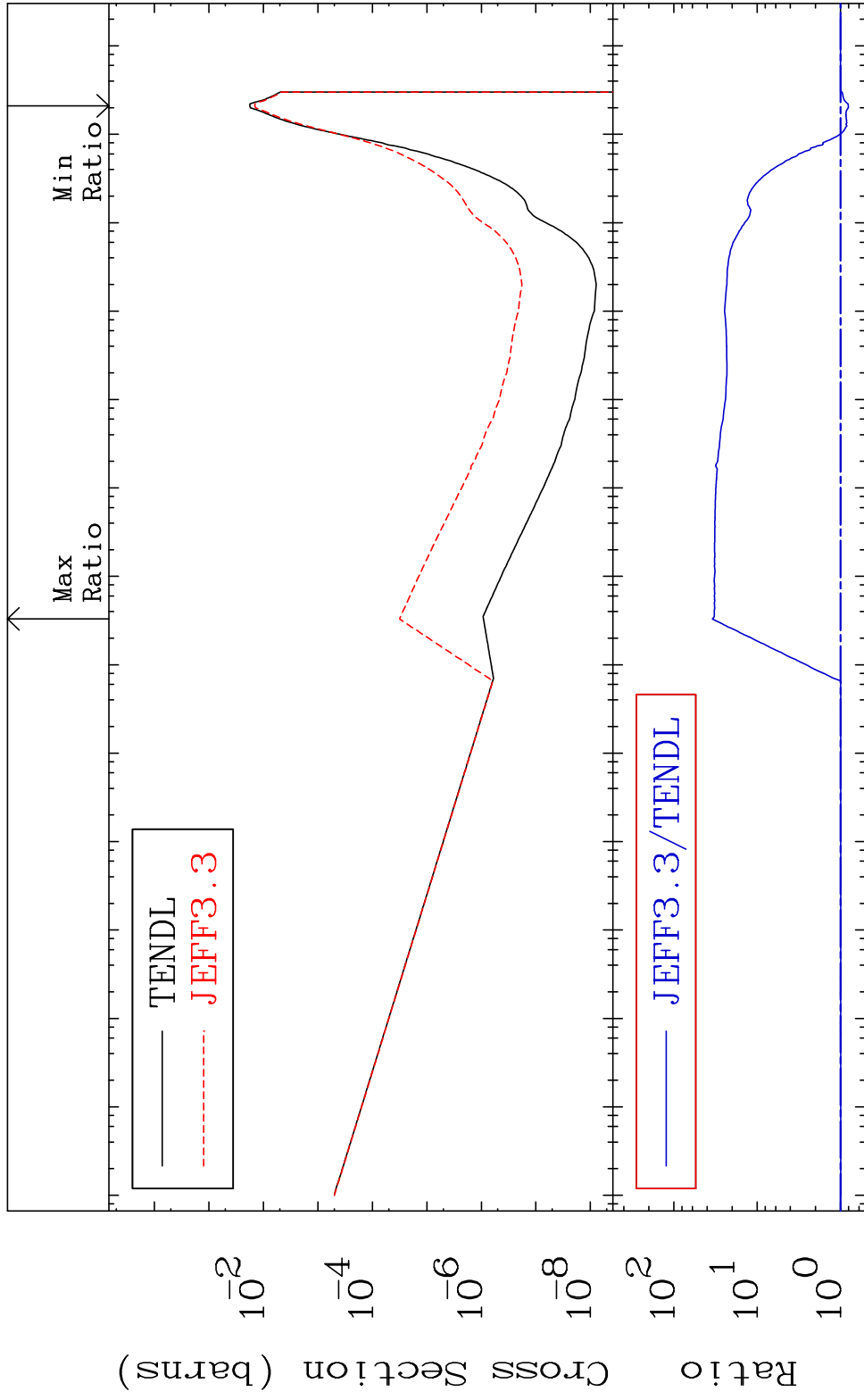


MAT 7031

70-Yb-170

(n,  $\alpha$ )

Cross Section -19.44 To 3355. %



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>

56

Incident Energy (eV)

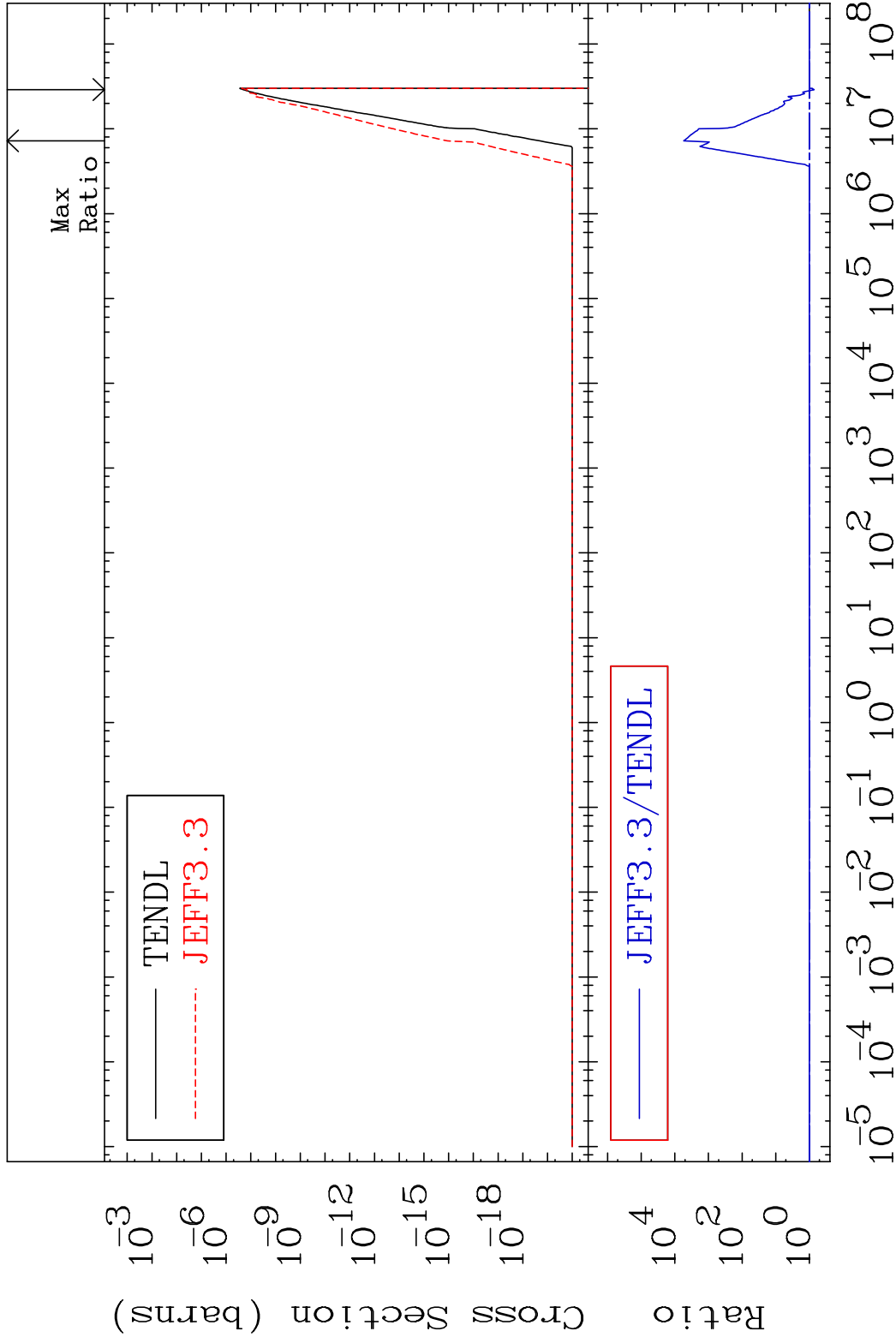
70-Yb-170

MAT 7031

(n,2α)

70-Yb-170

Cross Section -27.61 To 9999. %

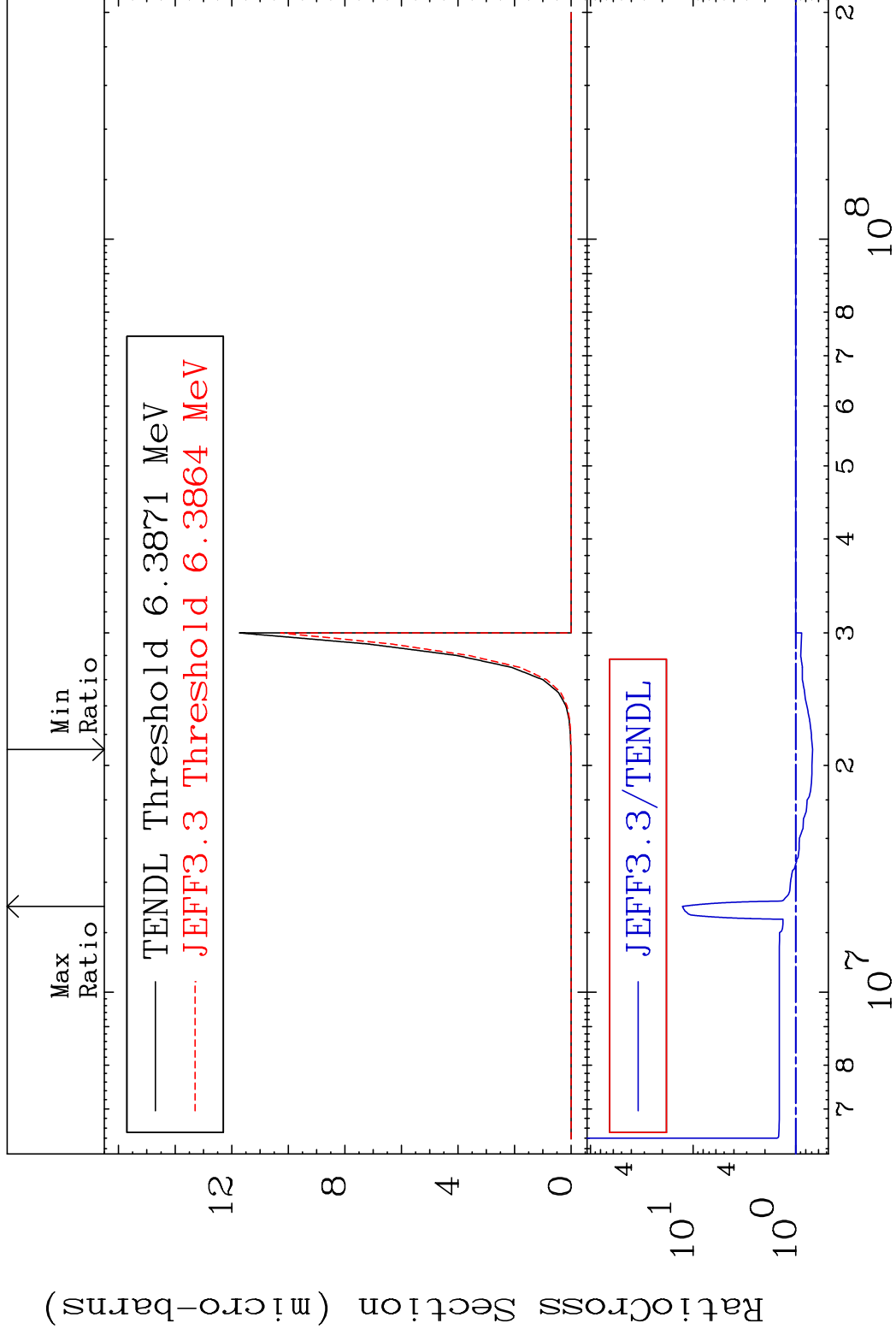


MAT 7031

(n,2p)

70-Yb-170

Cross Section -31.45 To 1174. %



58

Incident Energy (eV)

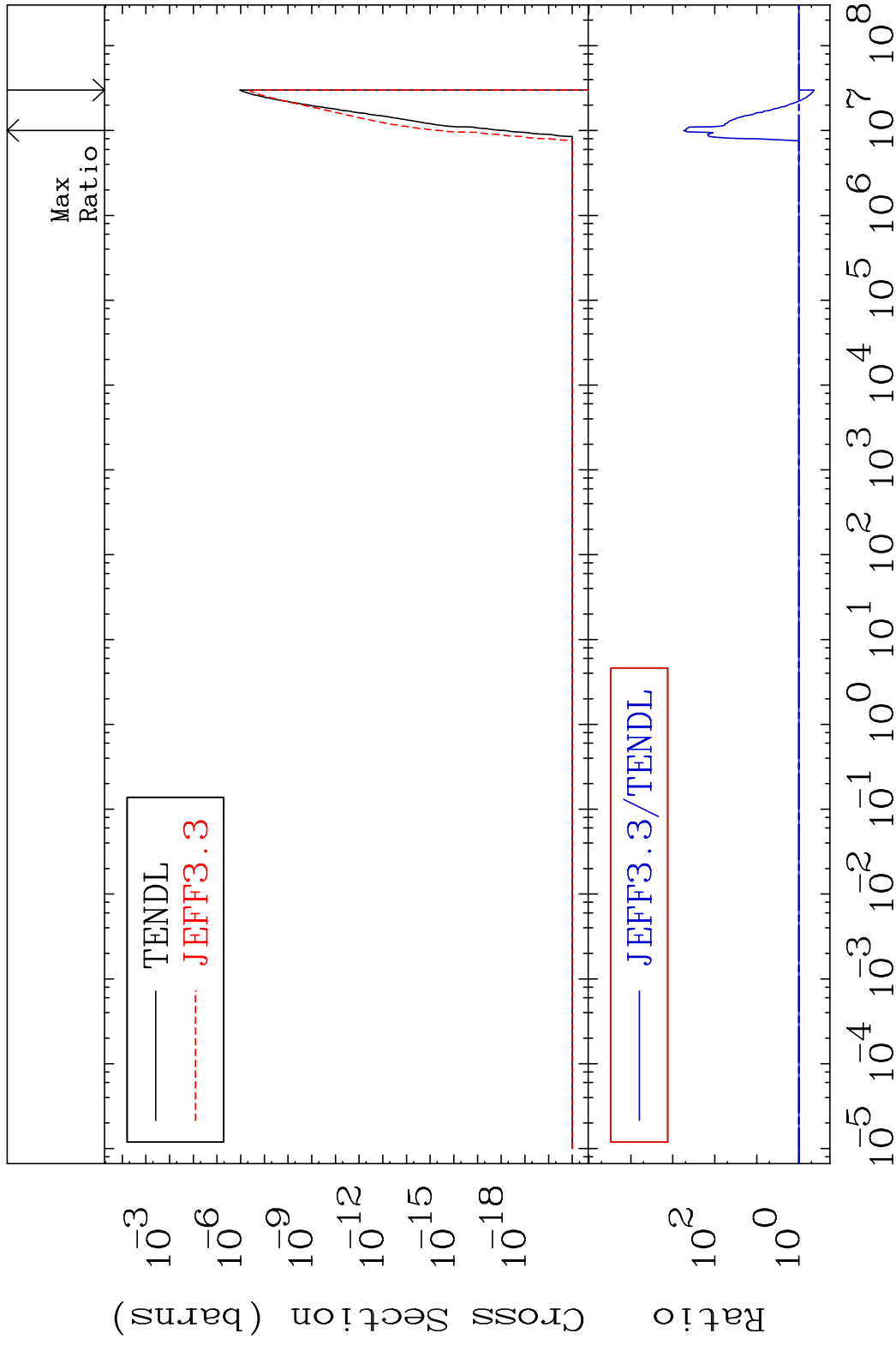
70-Yb-170

MAT 7031

(n,p)  $\alpha$

70-Yb-170

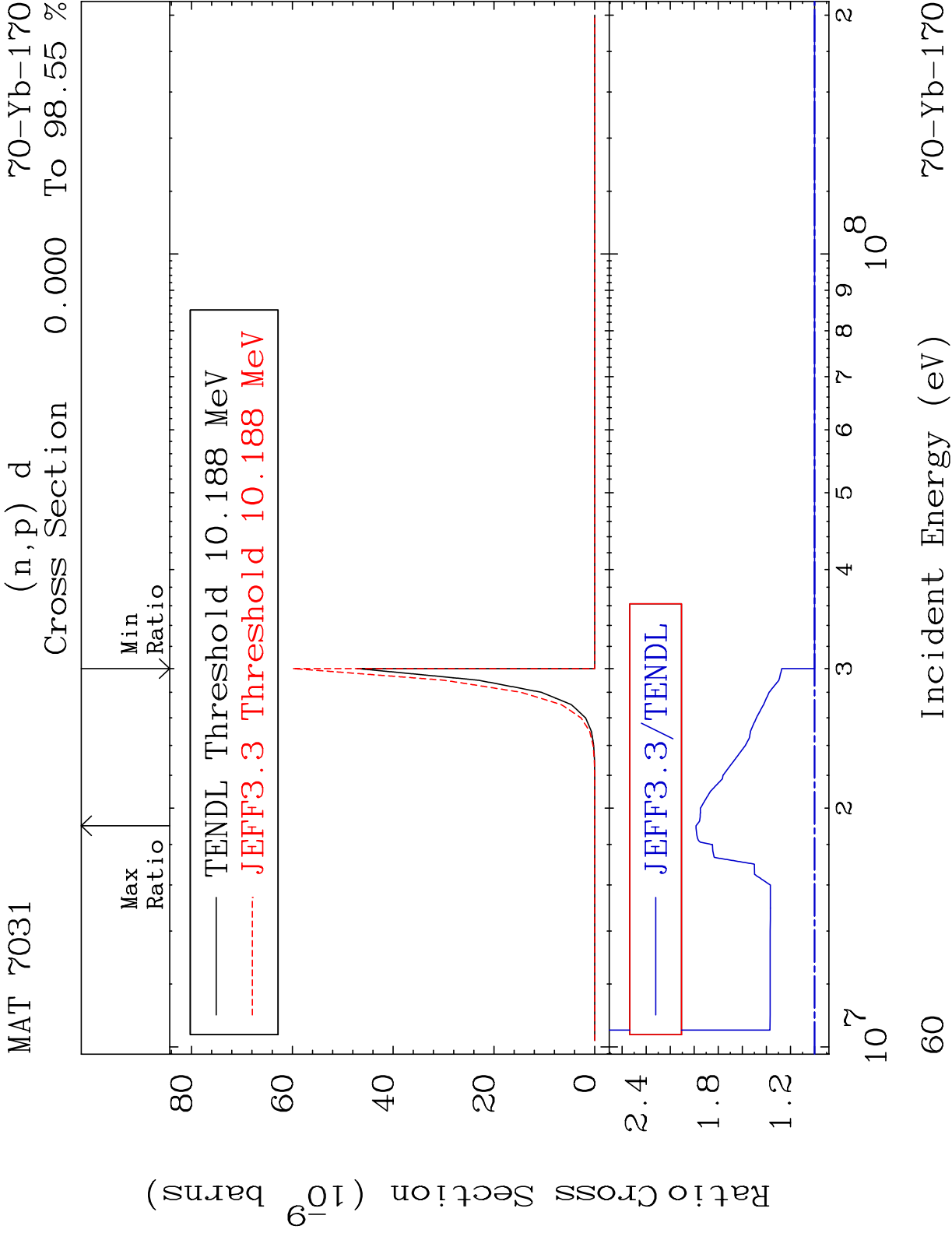
Cross Section -56.91 To 9999. %



59

Incident Energy (eV)

70-Yb-170



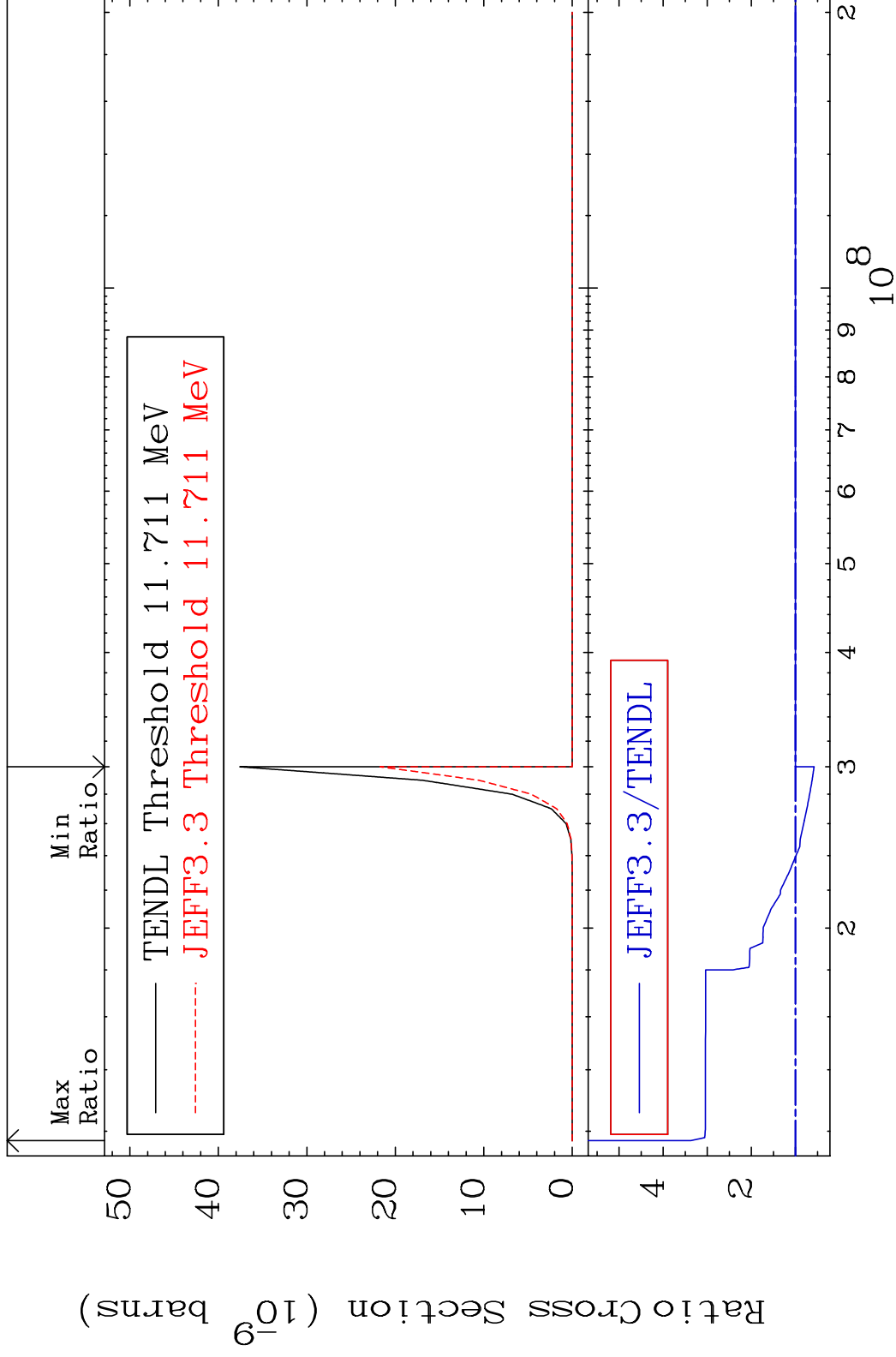
MAT 7031

(n,p) t

70-Yb-170

Cross Section

-42.22 To 253.7 %

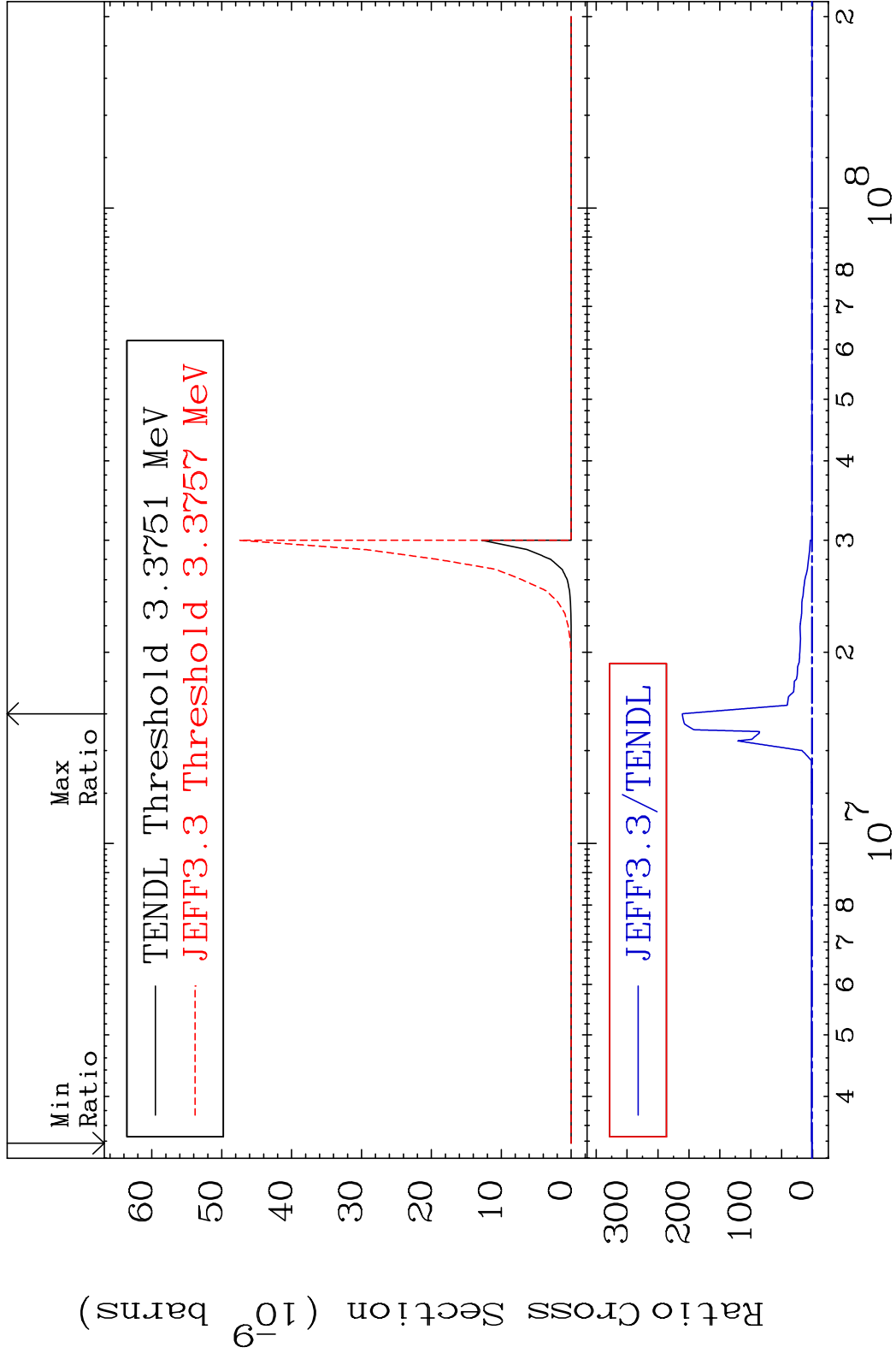


61

Incident Energy (eV)

70-Yb-170

MAT 7031 (n,d)  $\alpha$  70-Yb-170  
 Cross Section -100.0 To 9999. %

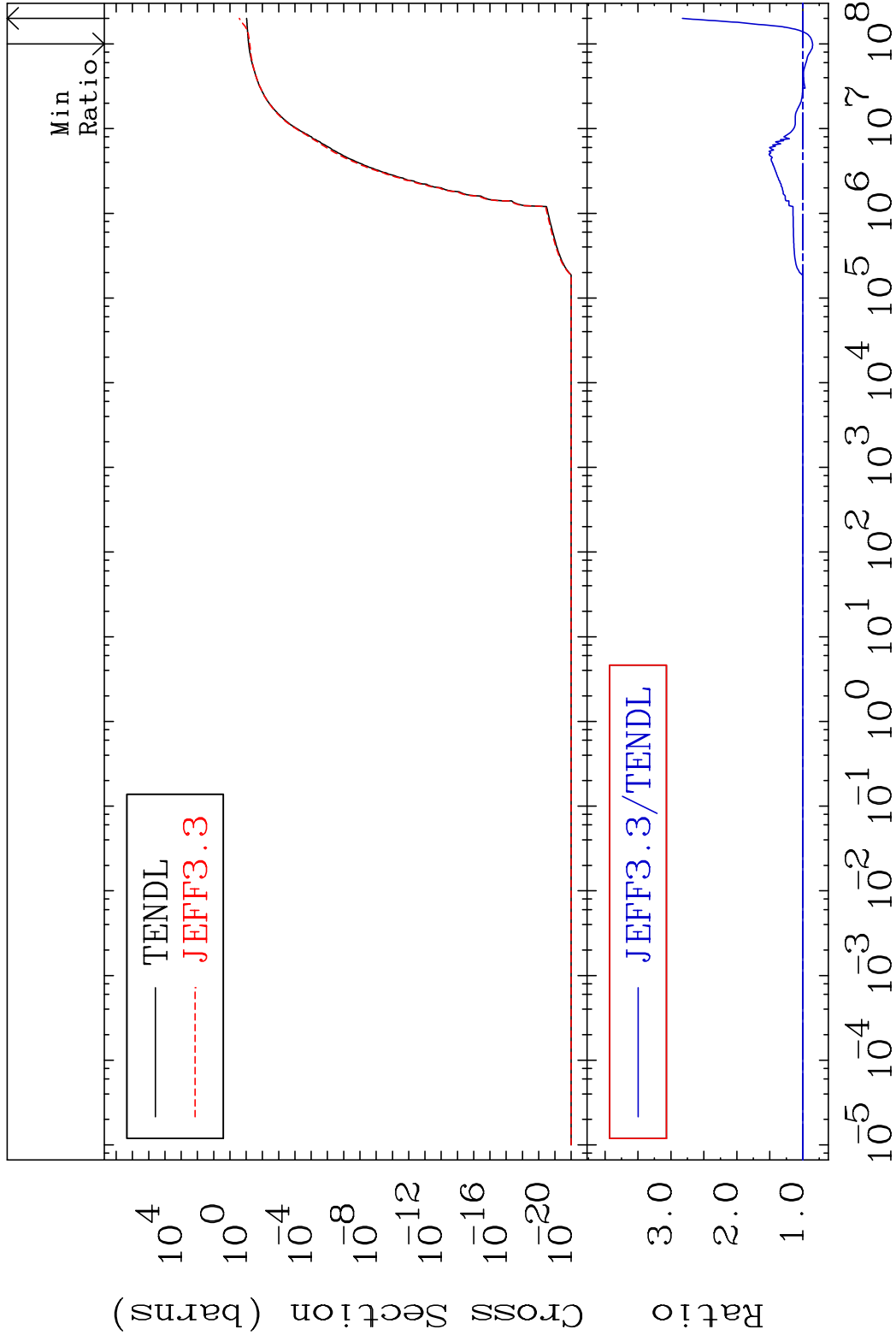


MAT 7031

Hydrogen Production

70-Yb-170

Cross Section -14.77 To 182.7 %



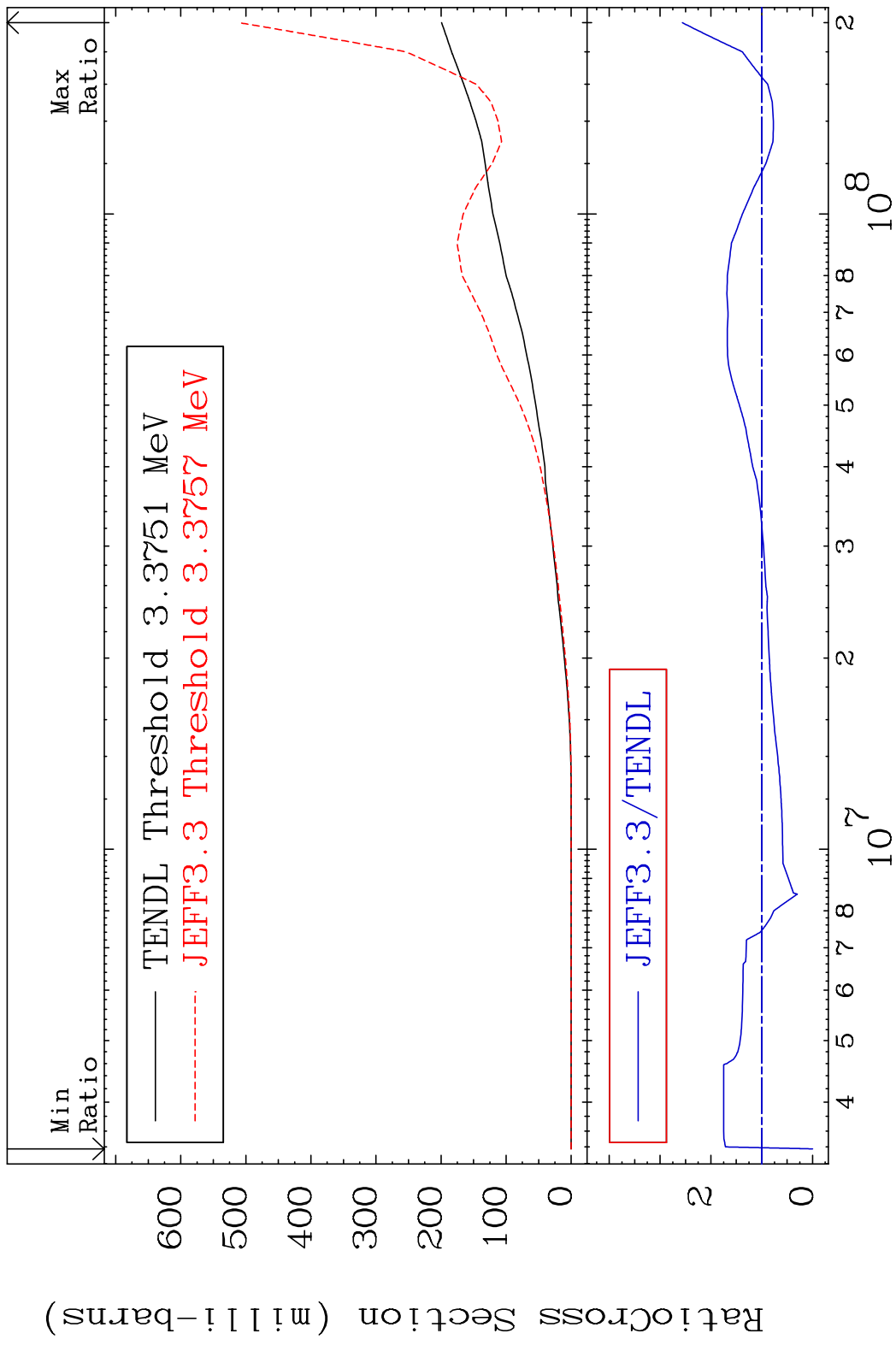
63

Incident Energy (eV)

70-Yb-170



MAT 7031 Deuterium Production 70-Yb-170  
 Cross Section -100.0 To 156.2 %



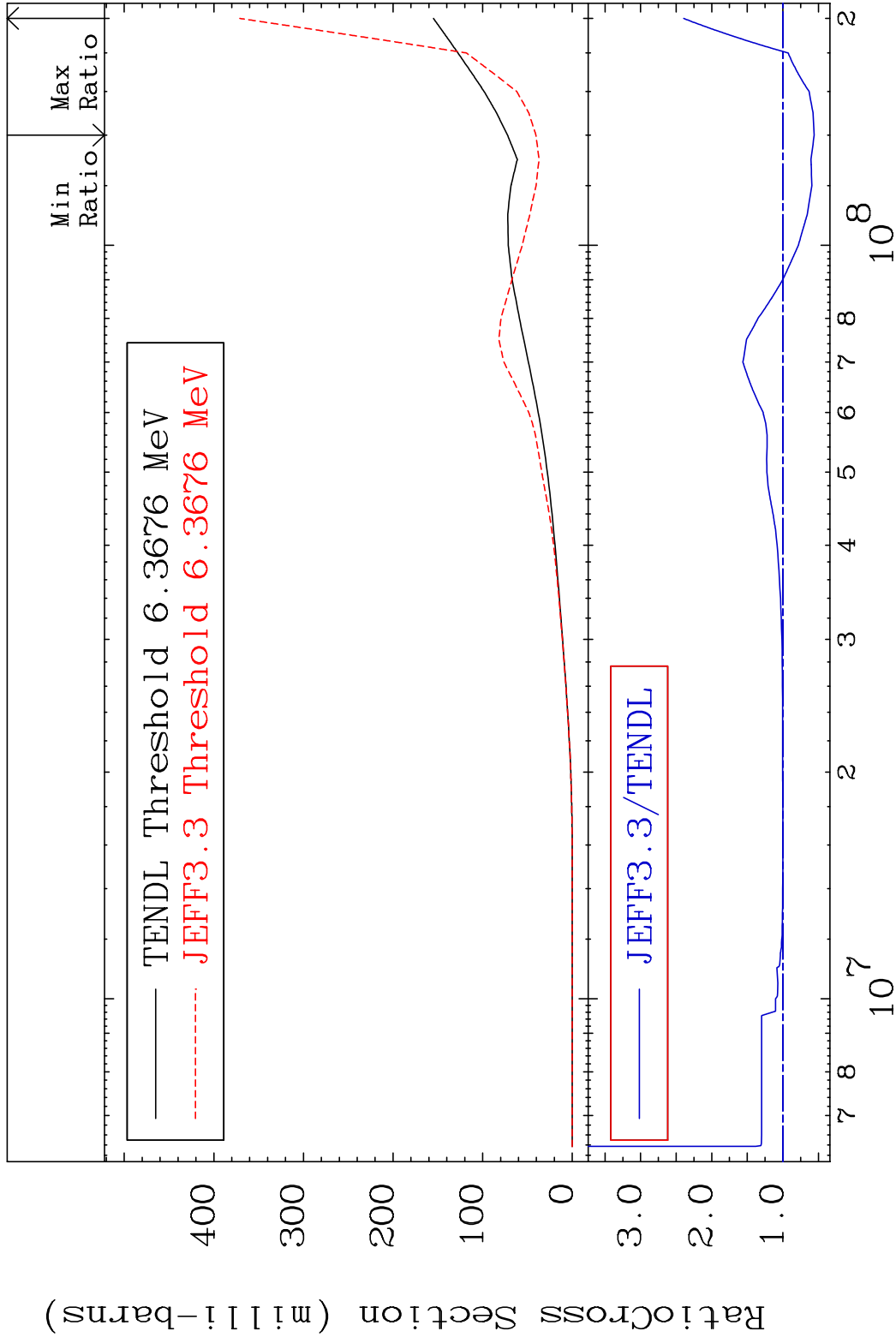
64 Incident Energy (eV) 70-Yb-170

MAT 7031

Tritium Production

70-Yb-170

Cross Section -43.97 To 139.4 %



65

Incident Energy (eV)

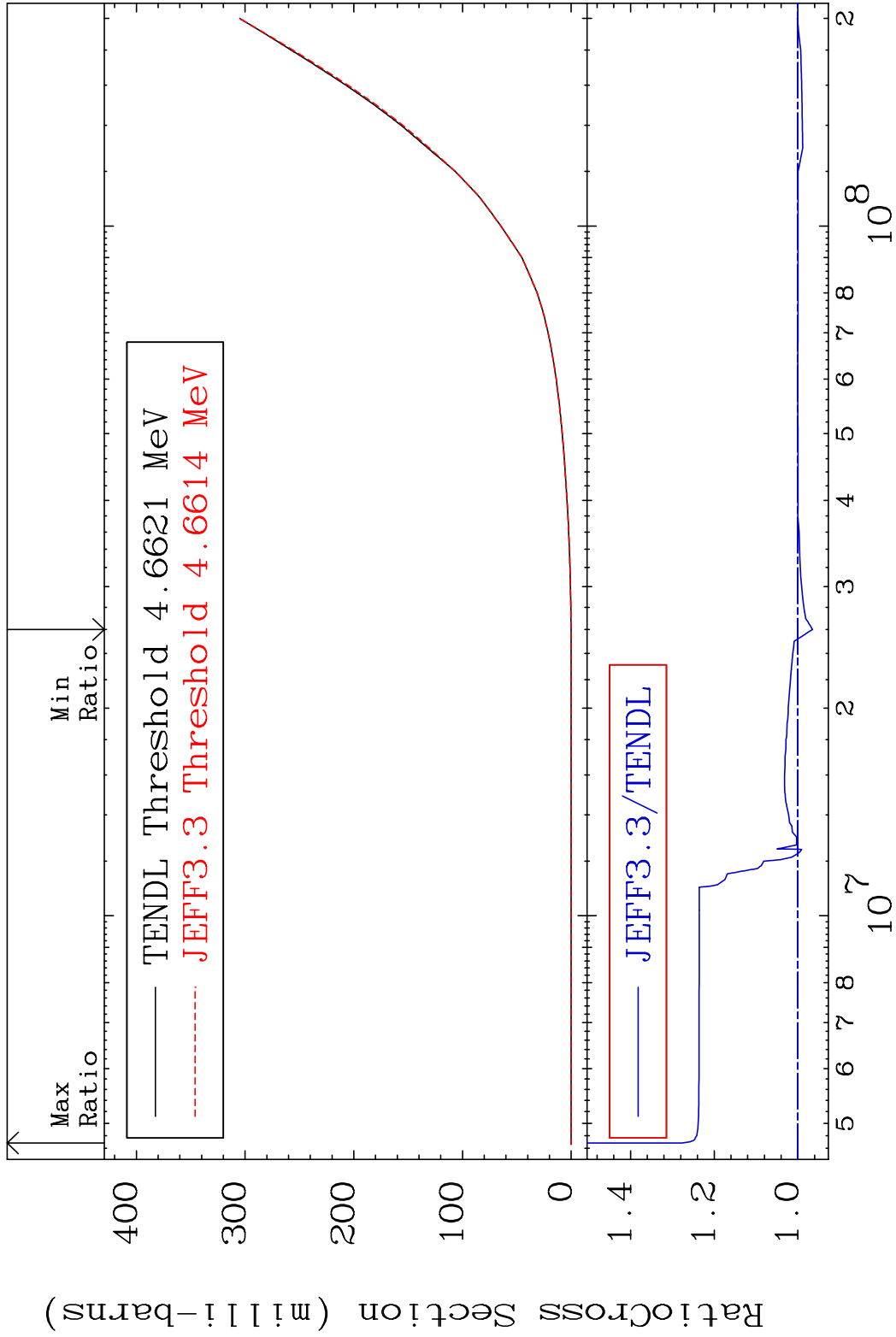
70-Yb-170

MAT 7031

He-3 Production

70-Yb-170

Cross Section -3.519 To 27.62 %



66

Incident Energy (eV)

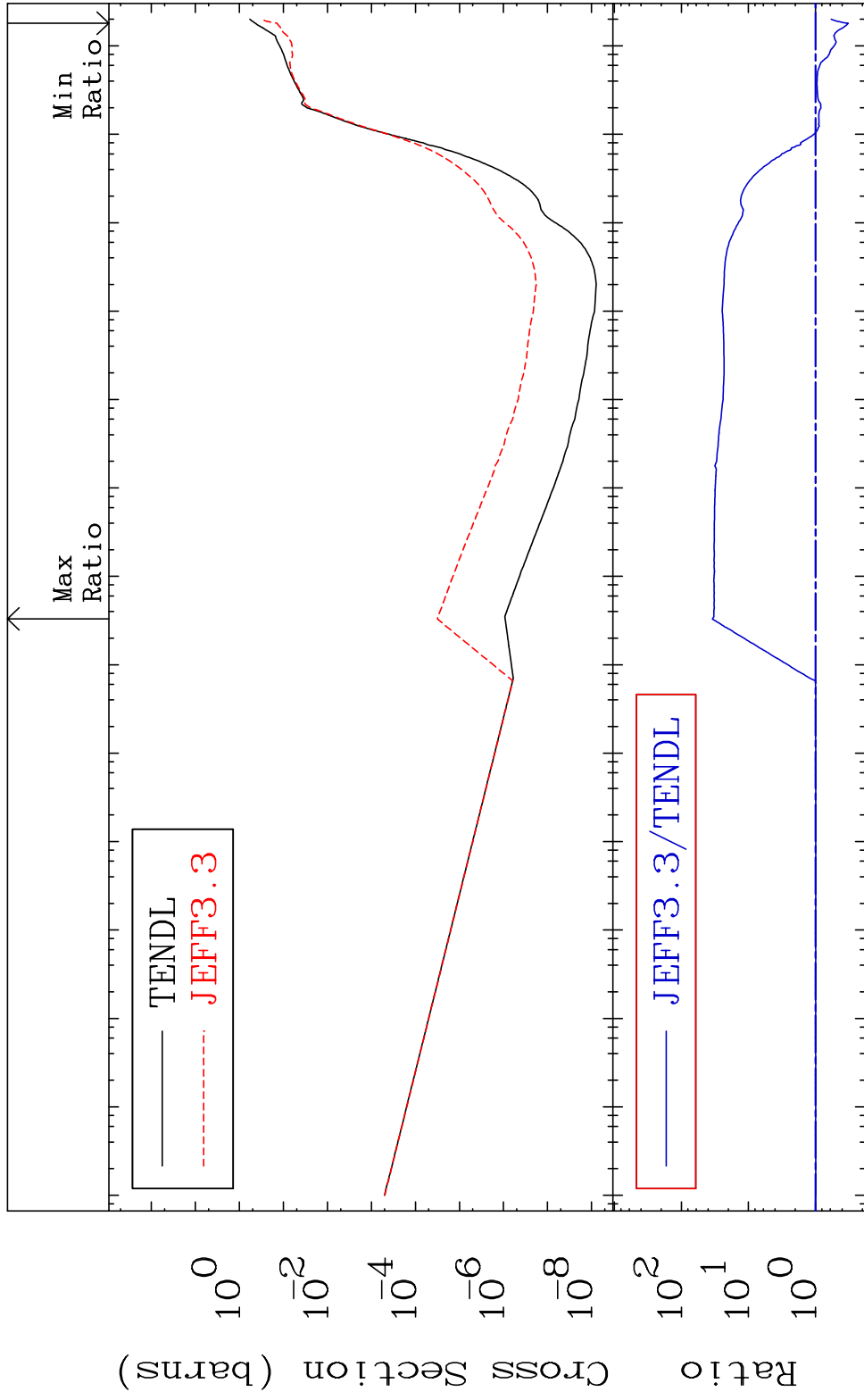
70-Yb-170

MAT 7031

He-4 Production

70-Yb-170

Cross Section -67.63 To 3355. %

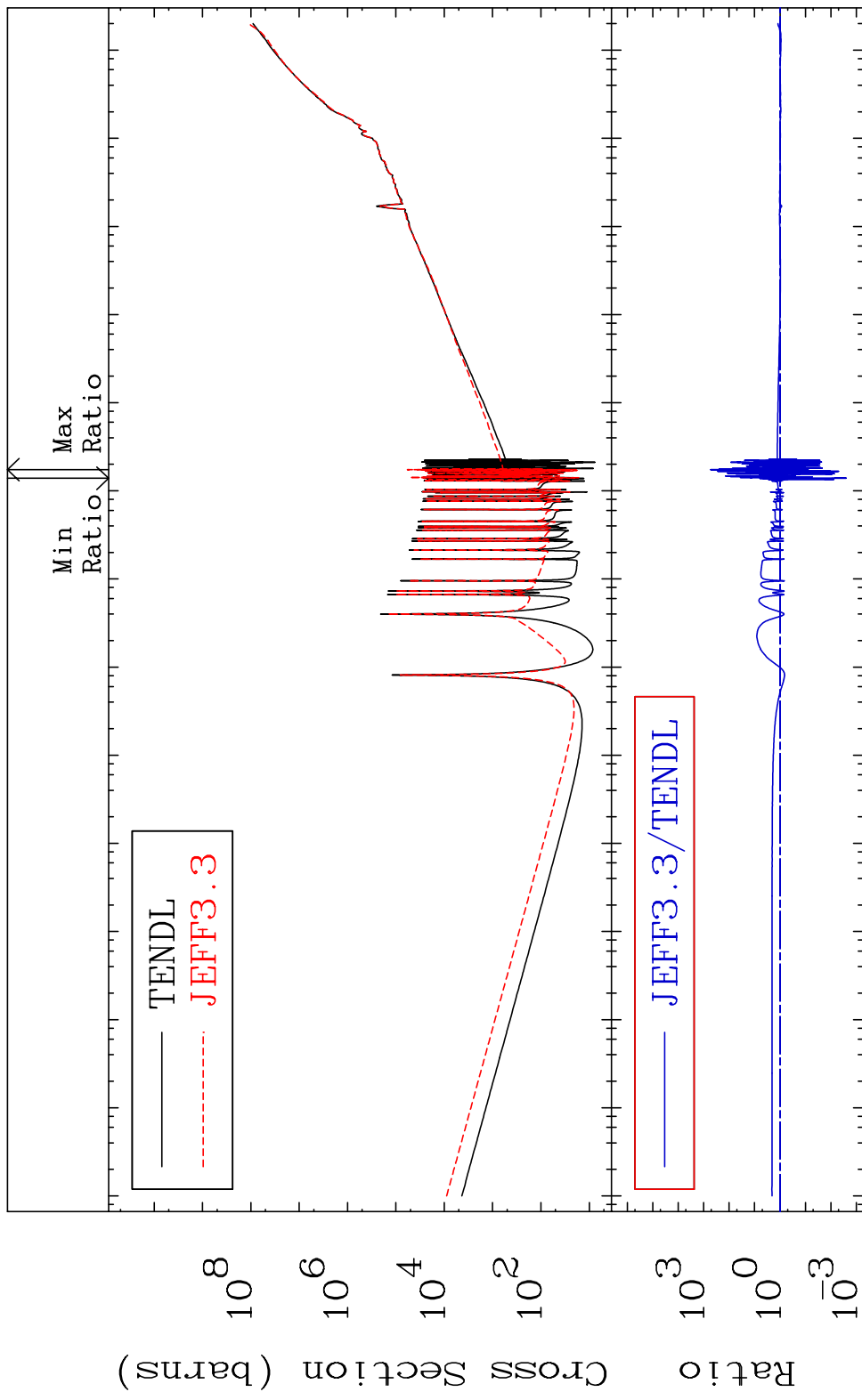


67

Incident Energy (eV)

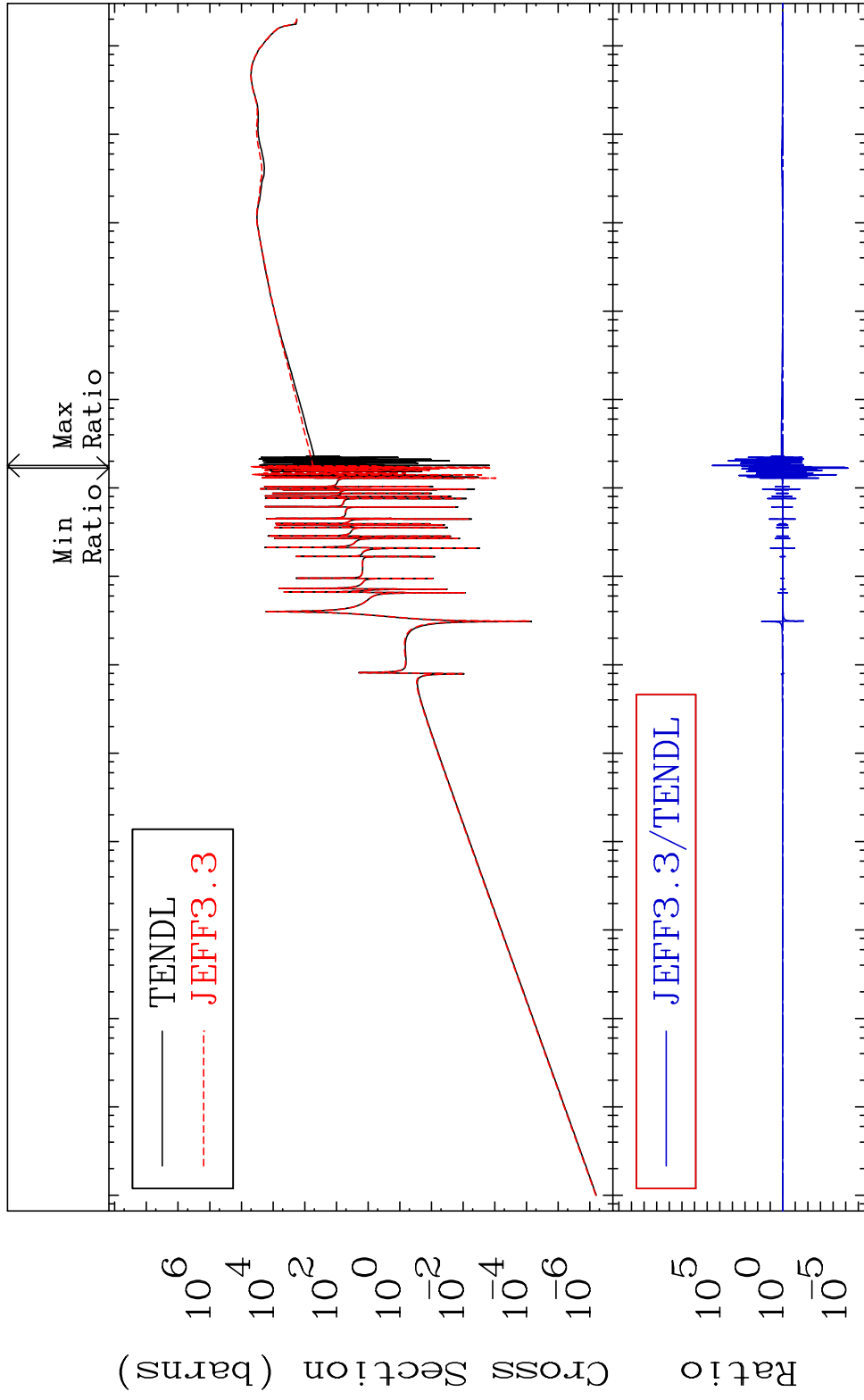
70-Yb-170

MAT 7031 Kerma total (eV-barns) 70-Yb-170  
 Cross Section -99.75 To 9999. %

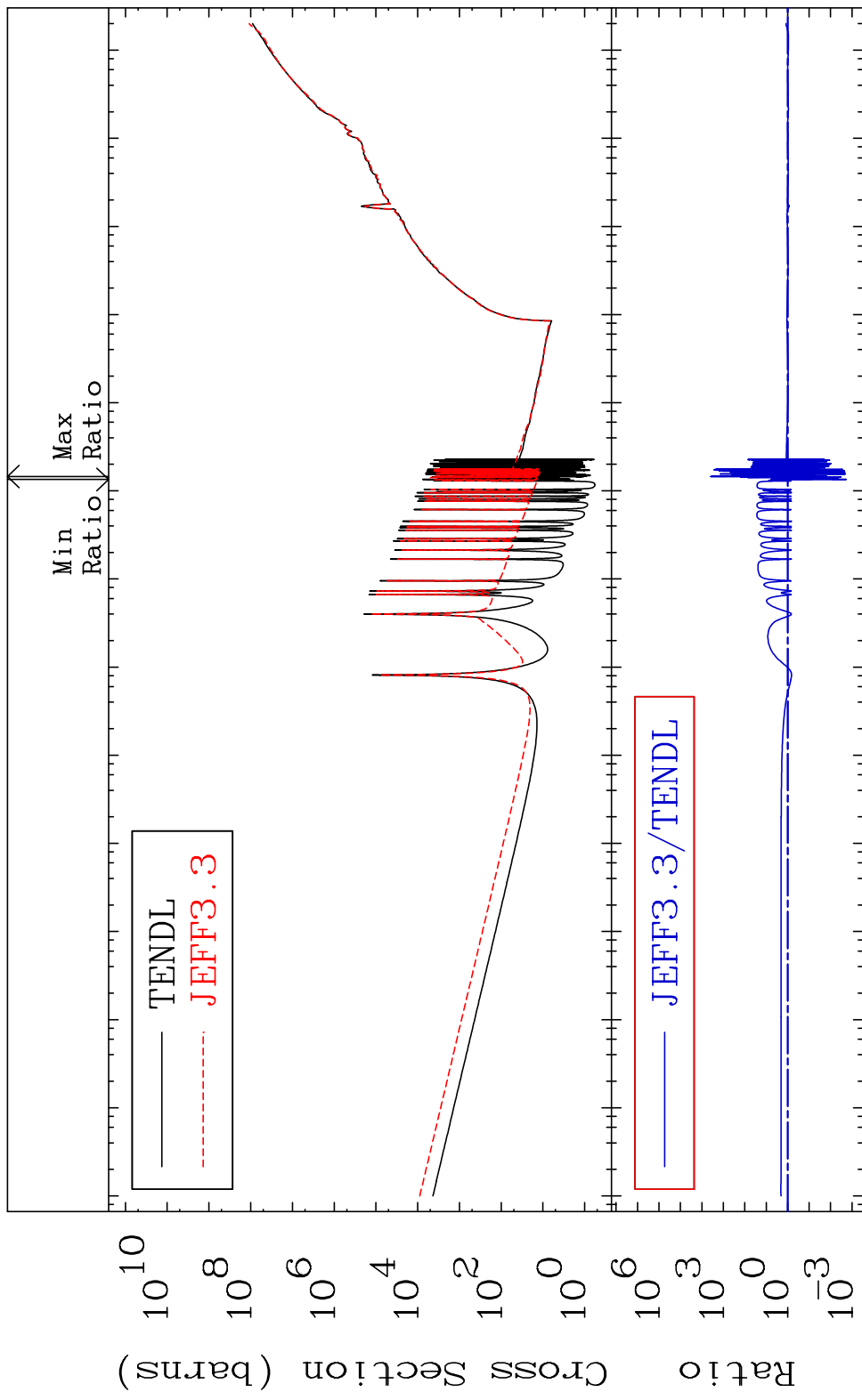


MAT 7031

Kerma elastic Cross Section -100.0 To 9999. %  
70-Yb-170

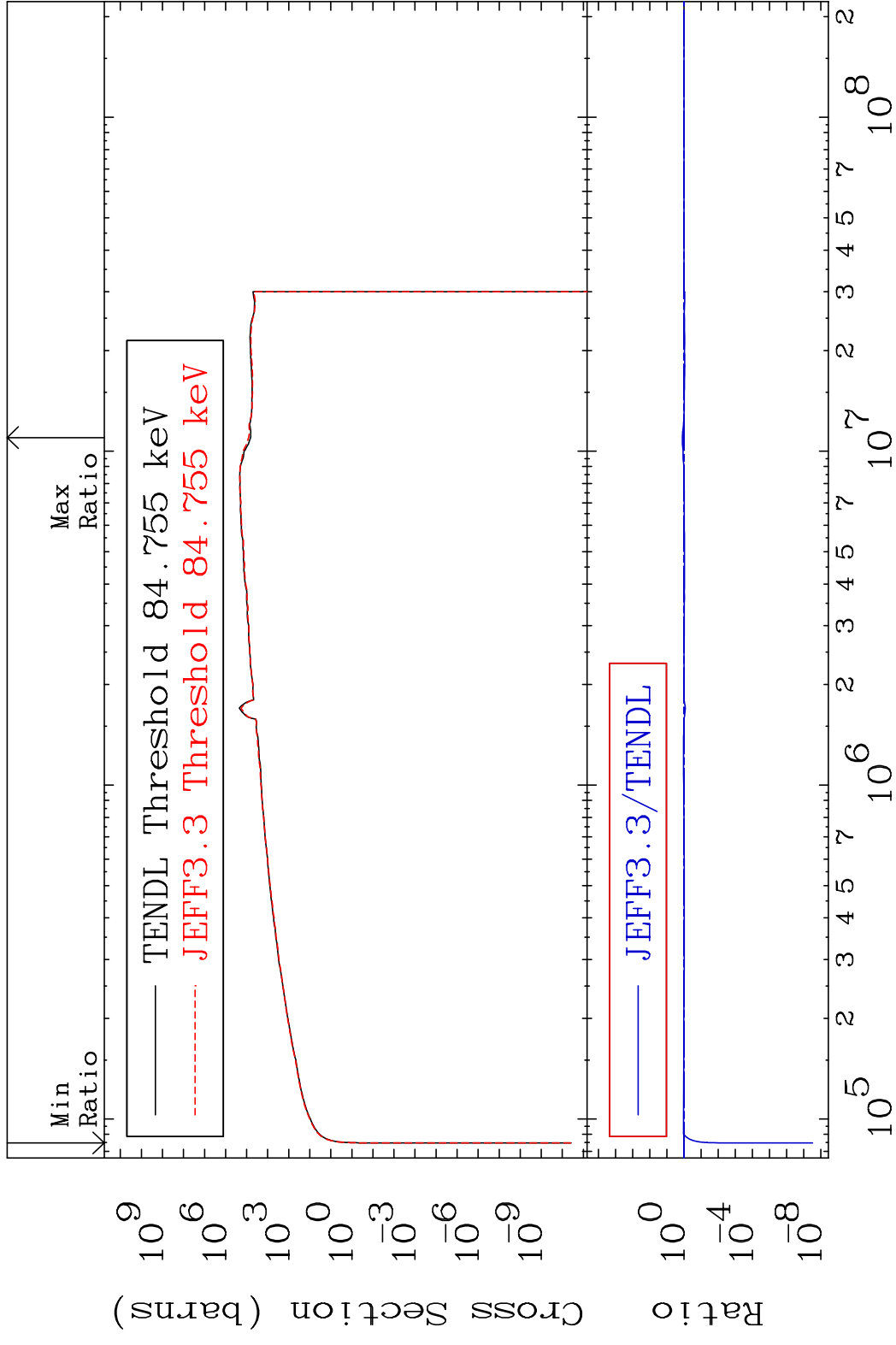


MAT 7031 Kerma non-elastic (all but mt2) 70-Yb-170  
 Cross Section -99.82 To 9999. %



70 Incident Energy (eV) 70-Yb-170

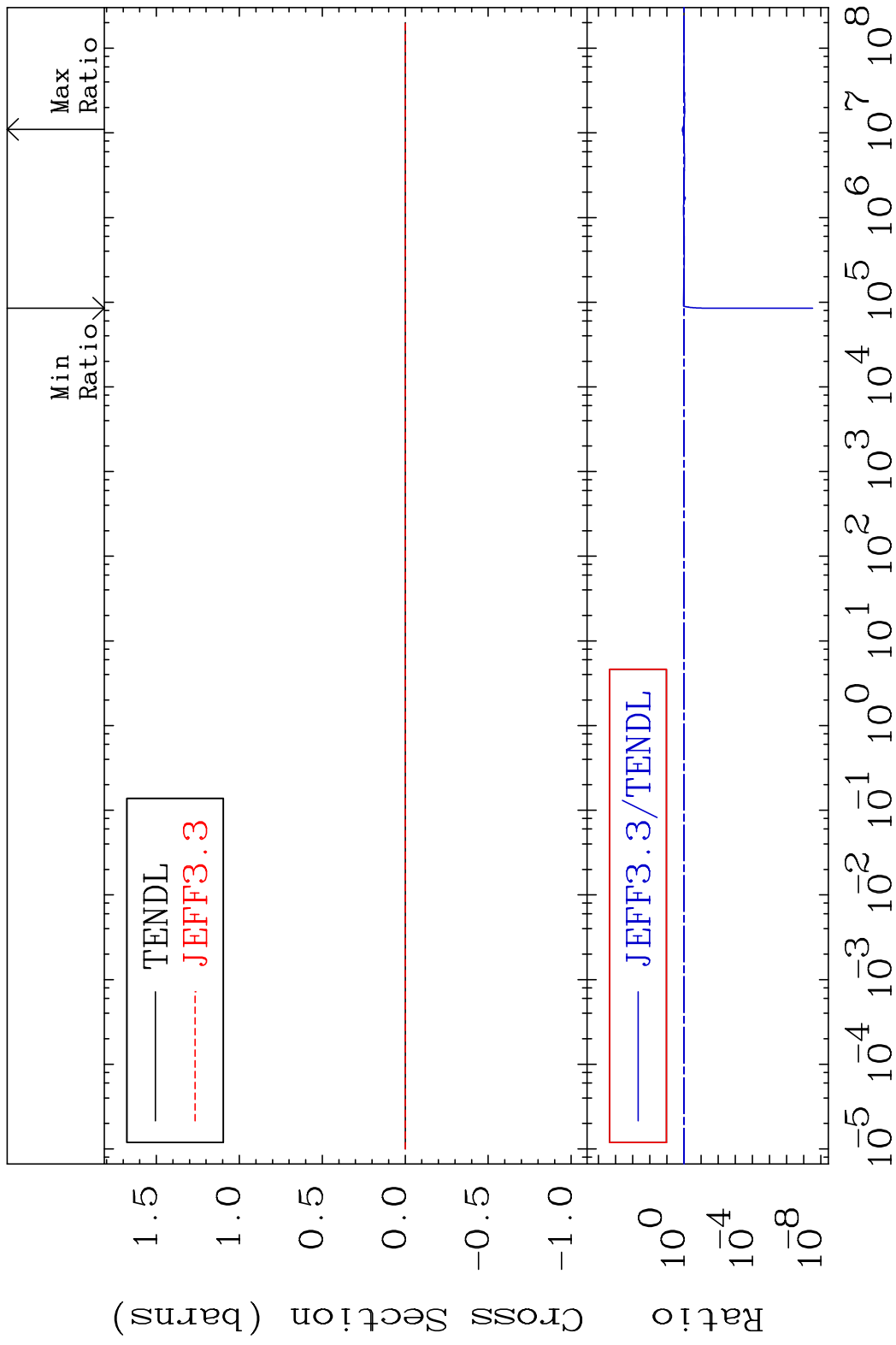
MAT 7031 Kerma inelastic (mt51-91) 70-Yb-170  
 Cross Section -100.0 To 24.35 %



71 Incident Energy (eV) 70-Yb-170



MAT 7031 Kerma fission (mt18 or mt19-20-21-38)70-Yb-170  
 Cross Section -100.0 To 24.35 %

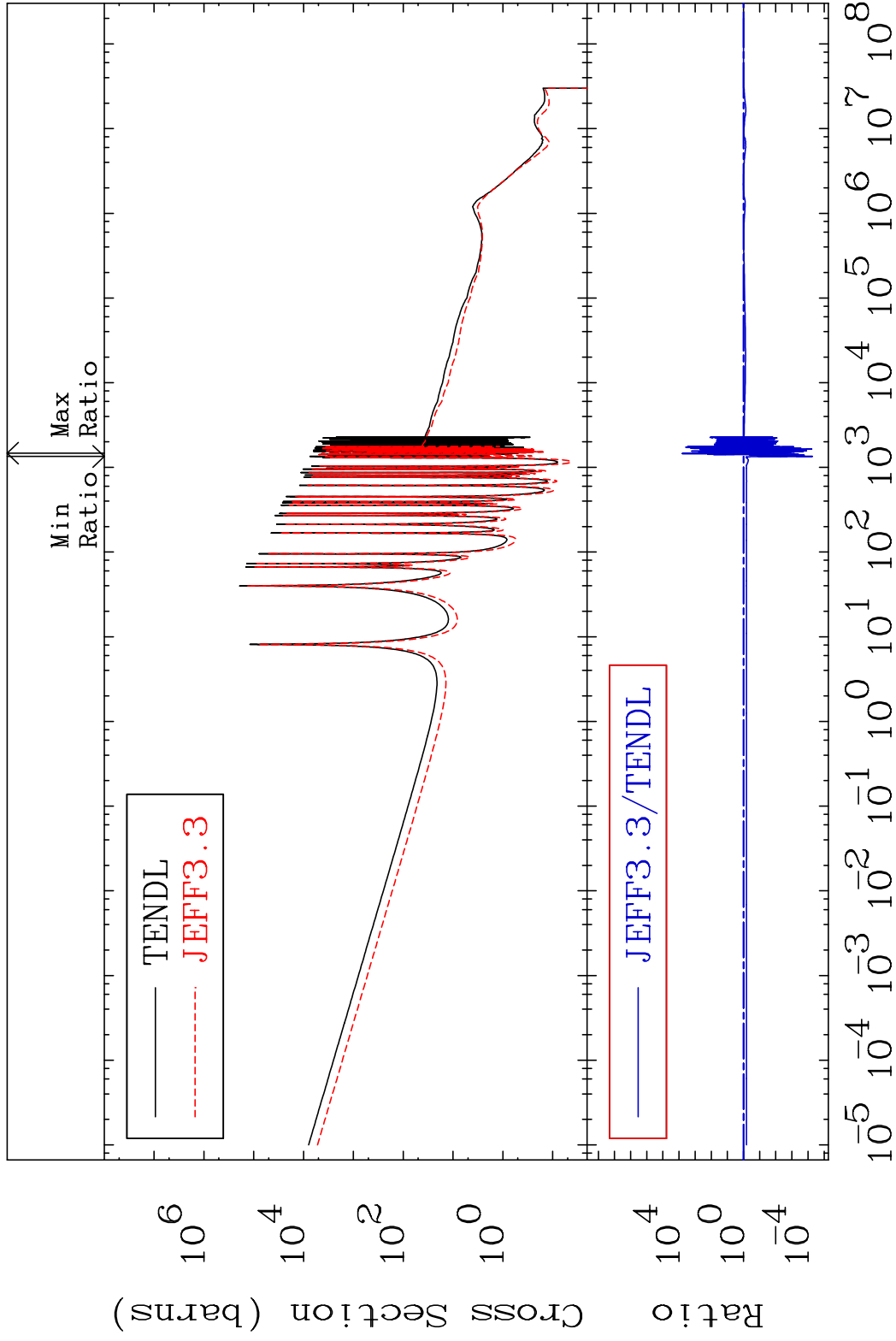


MAT 7031

Kerma capture (mt102)

70-Yb-170

Cross Section -99.99 To 9999. %

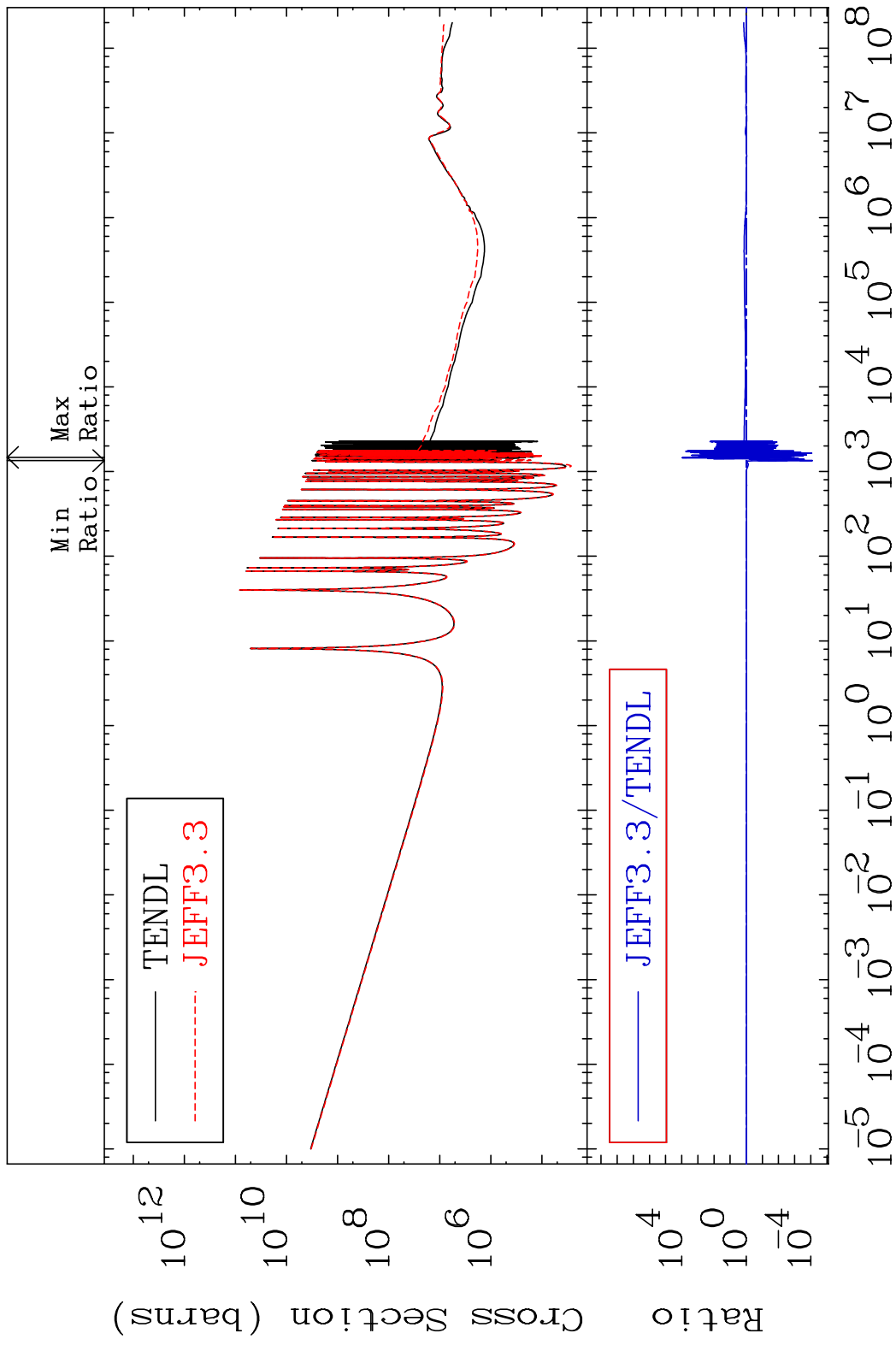


73

Incident Energy (eV)

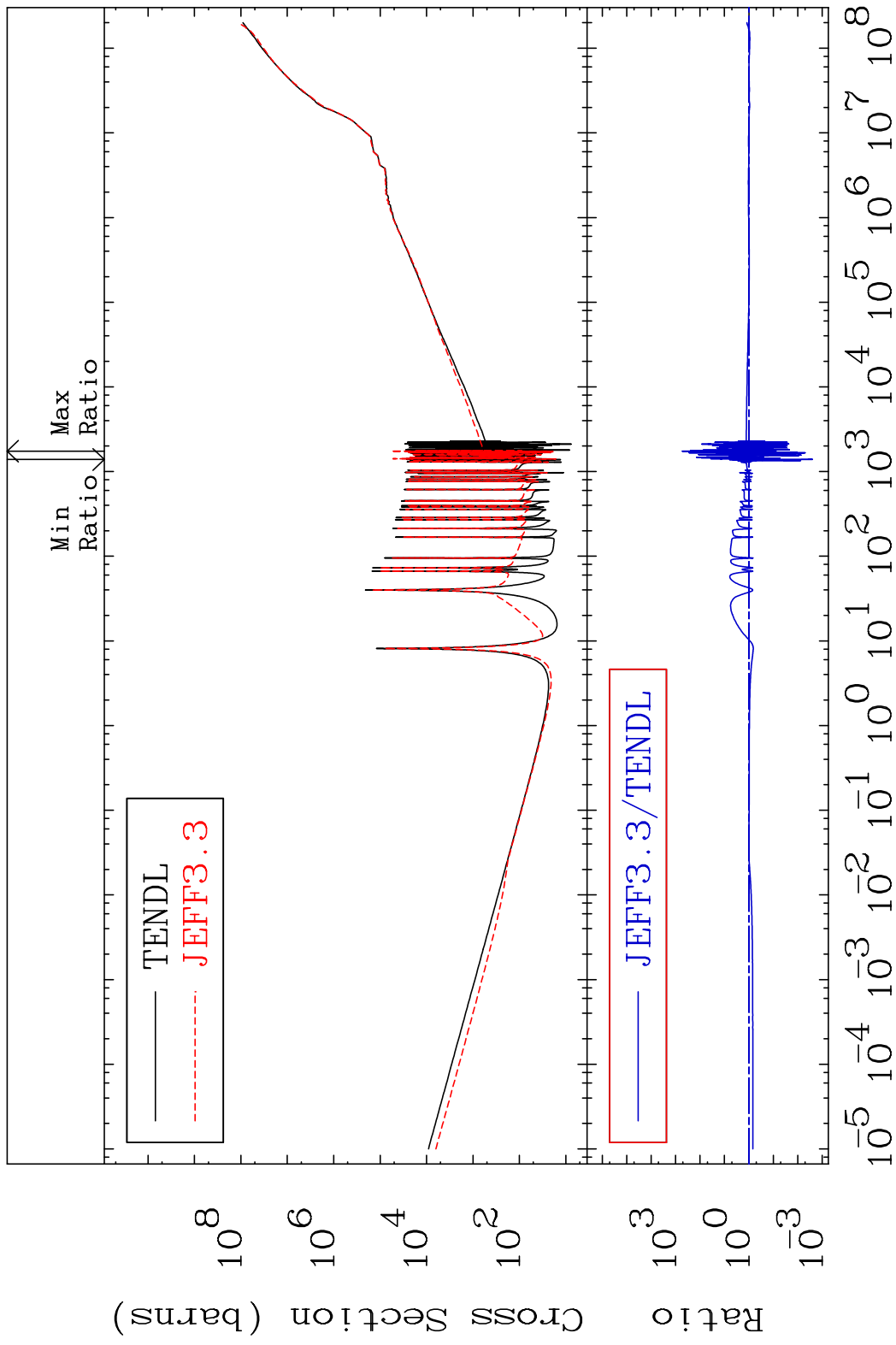
70-Yb-170

MAT 7031 Total photon (eV-barns) 70-Yb-170  
 Cross Section -99.99 To 9999. %



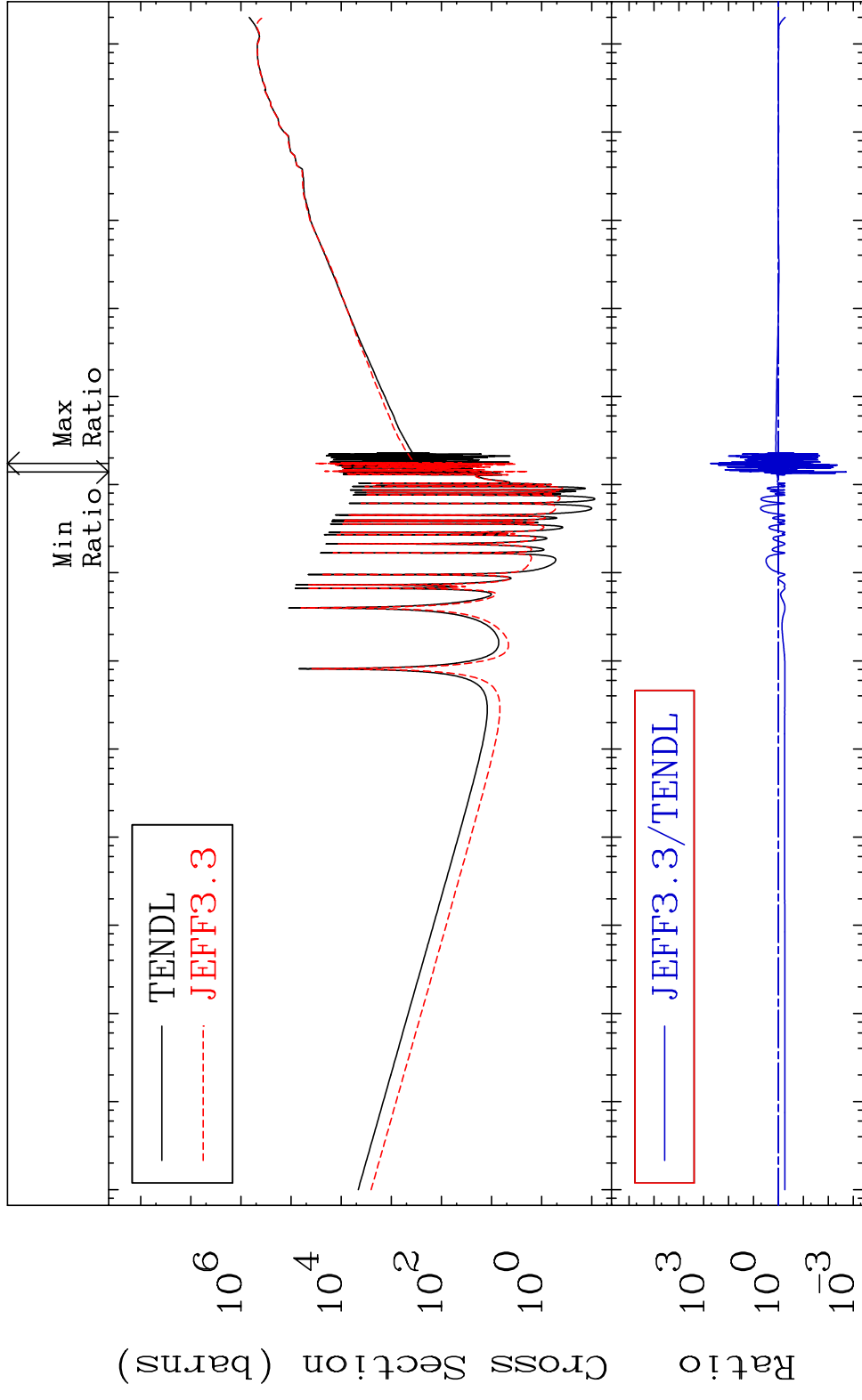
74 Incident Energy (eV) 70-Yb-170

MAT 7031 Total kinematic kerma (high limit) 70-Yb-170  
Cross Section -99.75 To 9999. %



75 Incident Energy (eV) 70-Yb-170

MAT 7031      Dpa total (eV-barns)      70-Yb-170  
 Cross Section      -99.81 To 9999. %

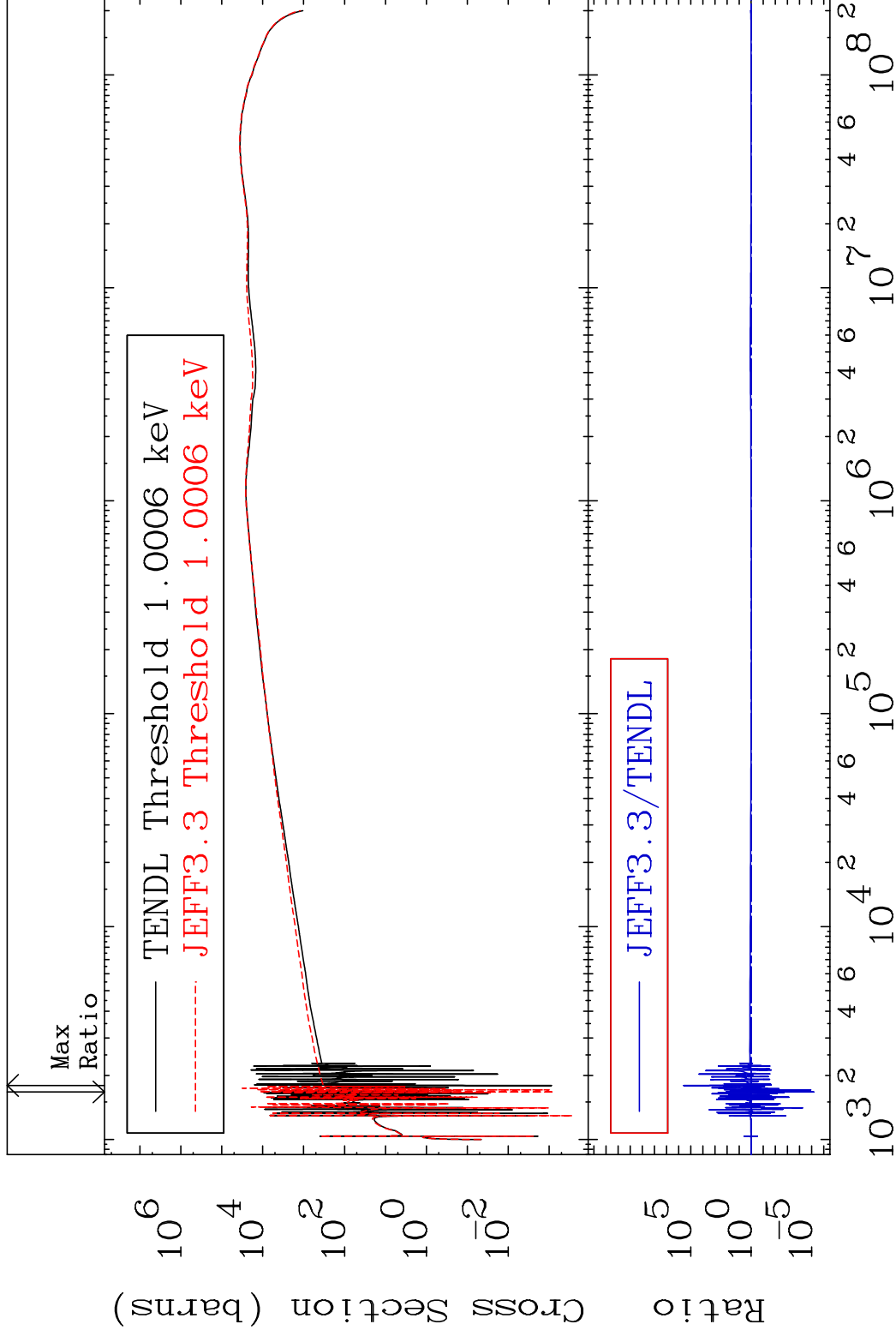


MAT 7031

Dpa elastic (mt2)

70-Yb-170

Cross Section -100.0 To 9999. %

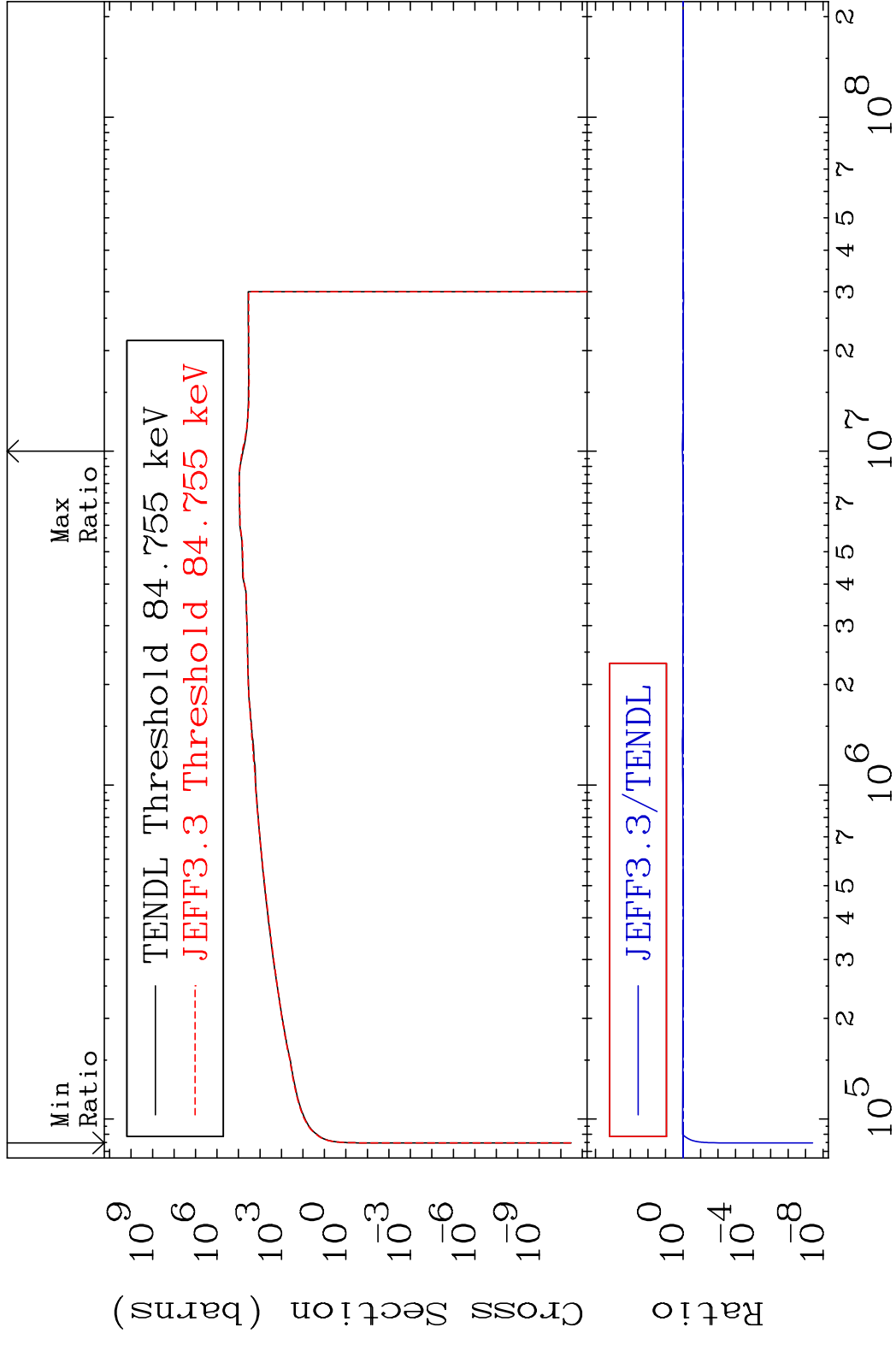


77

Incident Energy (eV)

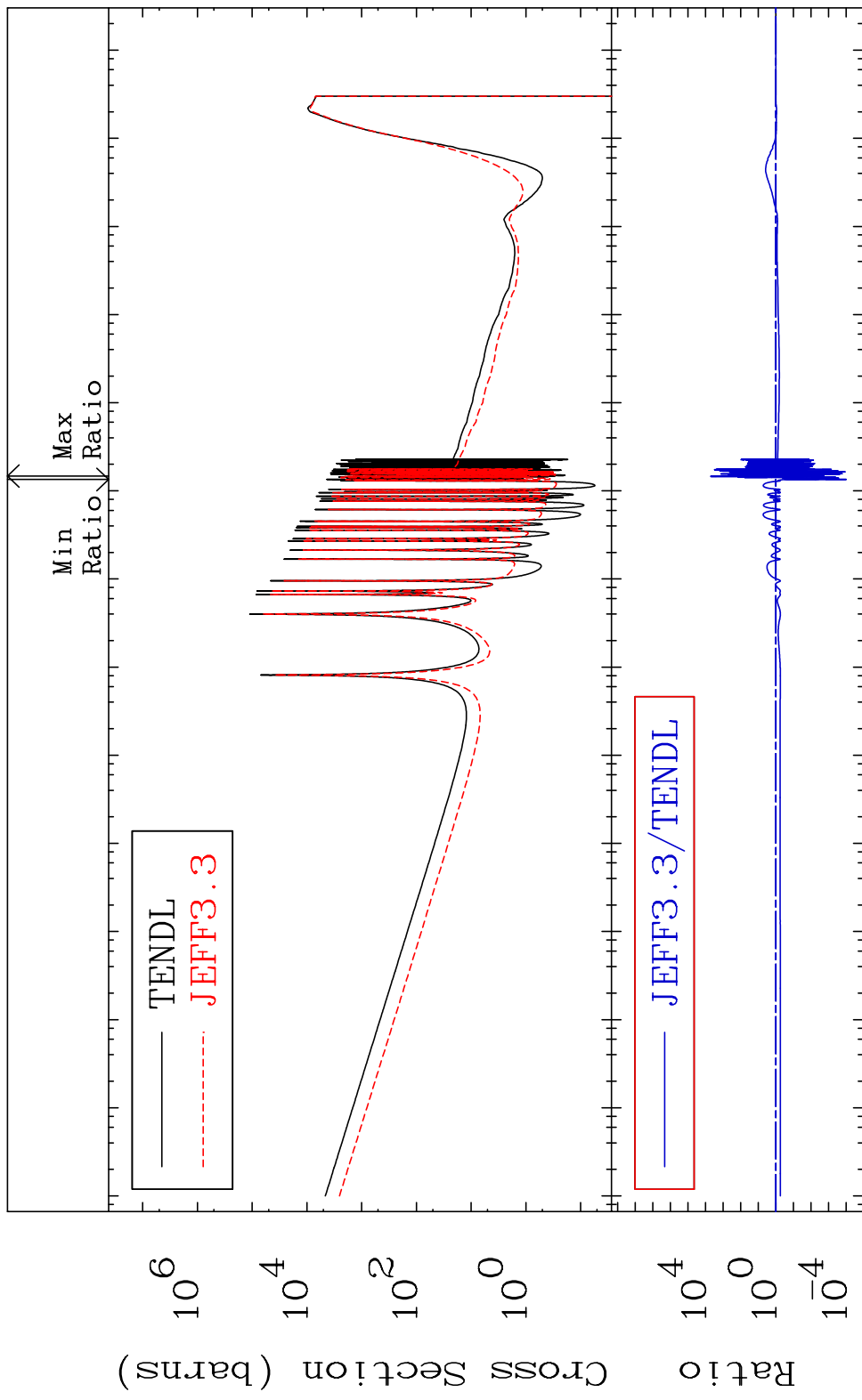
70-Yb-170

MAT 7031 Dpa inelastic (mt51-91) 70-Yb-170  
 Cross Section -100.0 To 9.238 %



78 Incident Energy (eV) 70-Yb-170

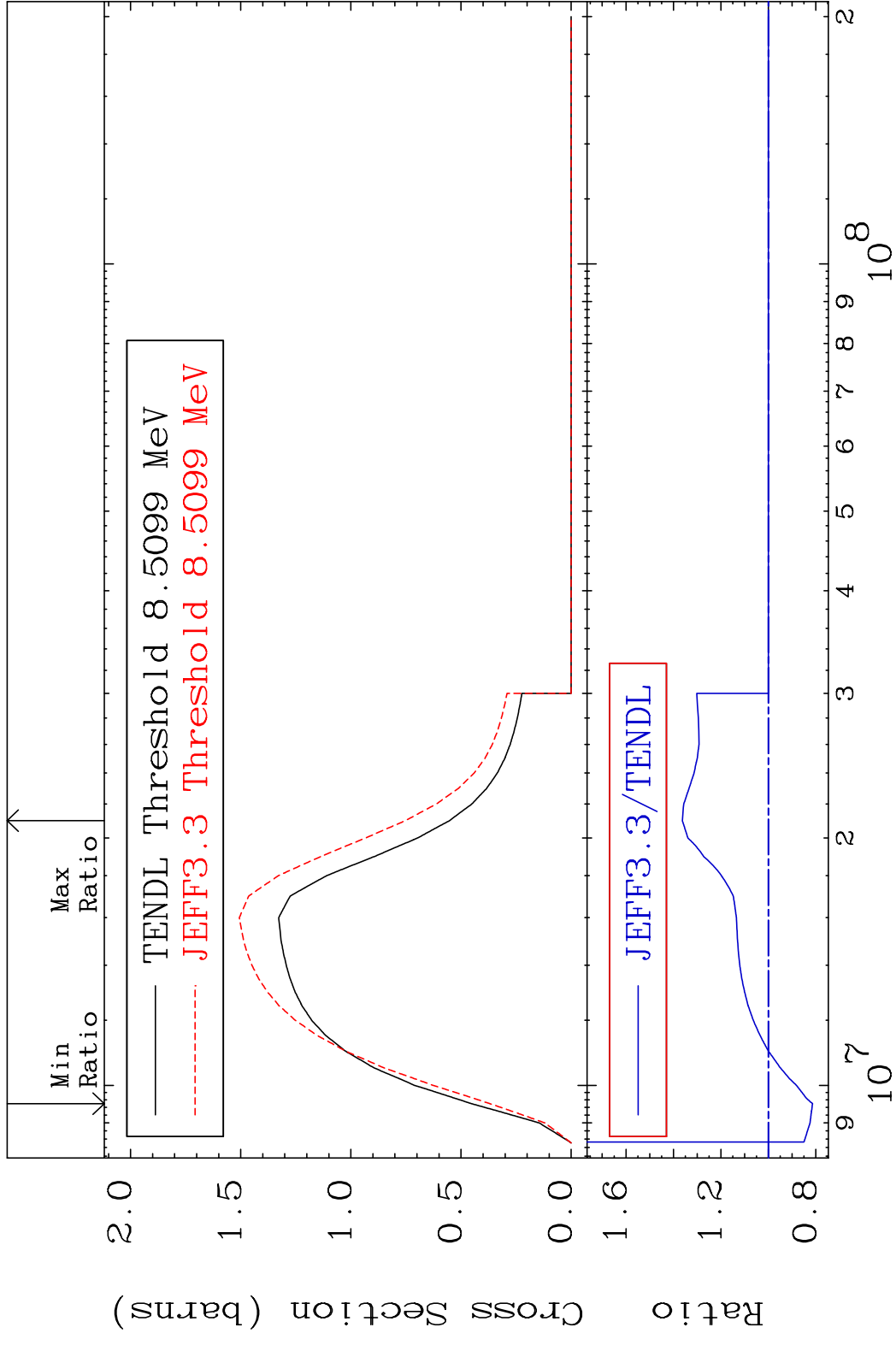
MAT 7031 Dpa disappearance (mt102 -120) 70-Yb-170  
 Cross Section -99.99 To 9999. %



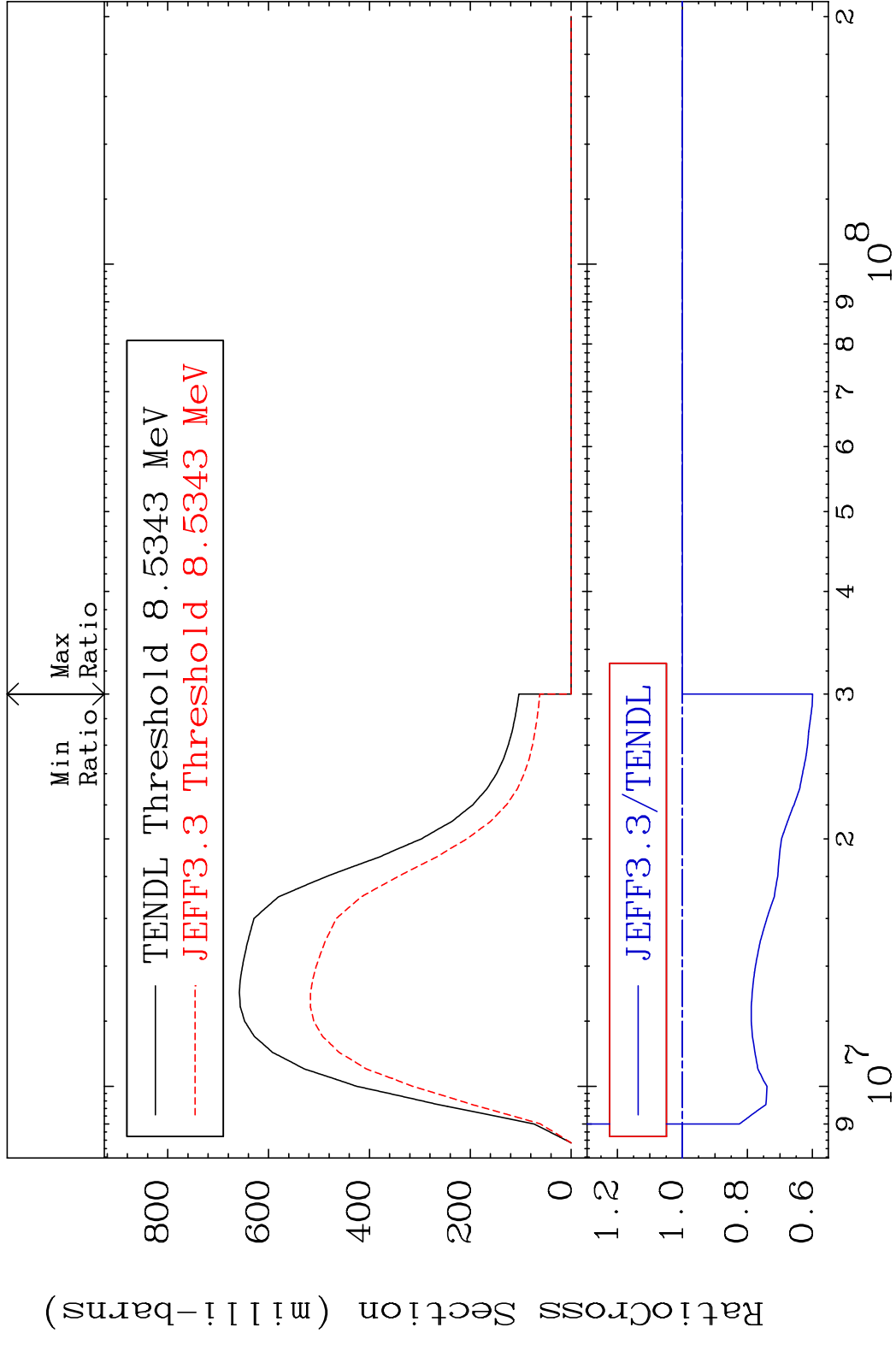
79 Incident Energy (eV) 70-Yb-170



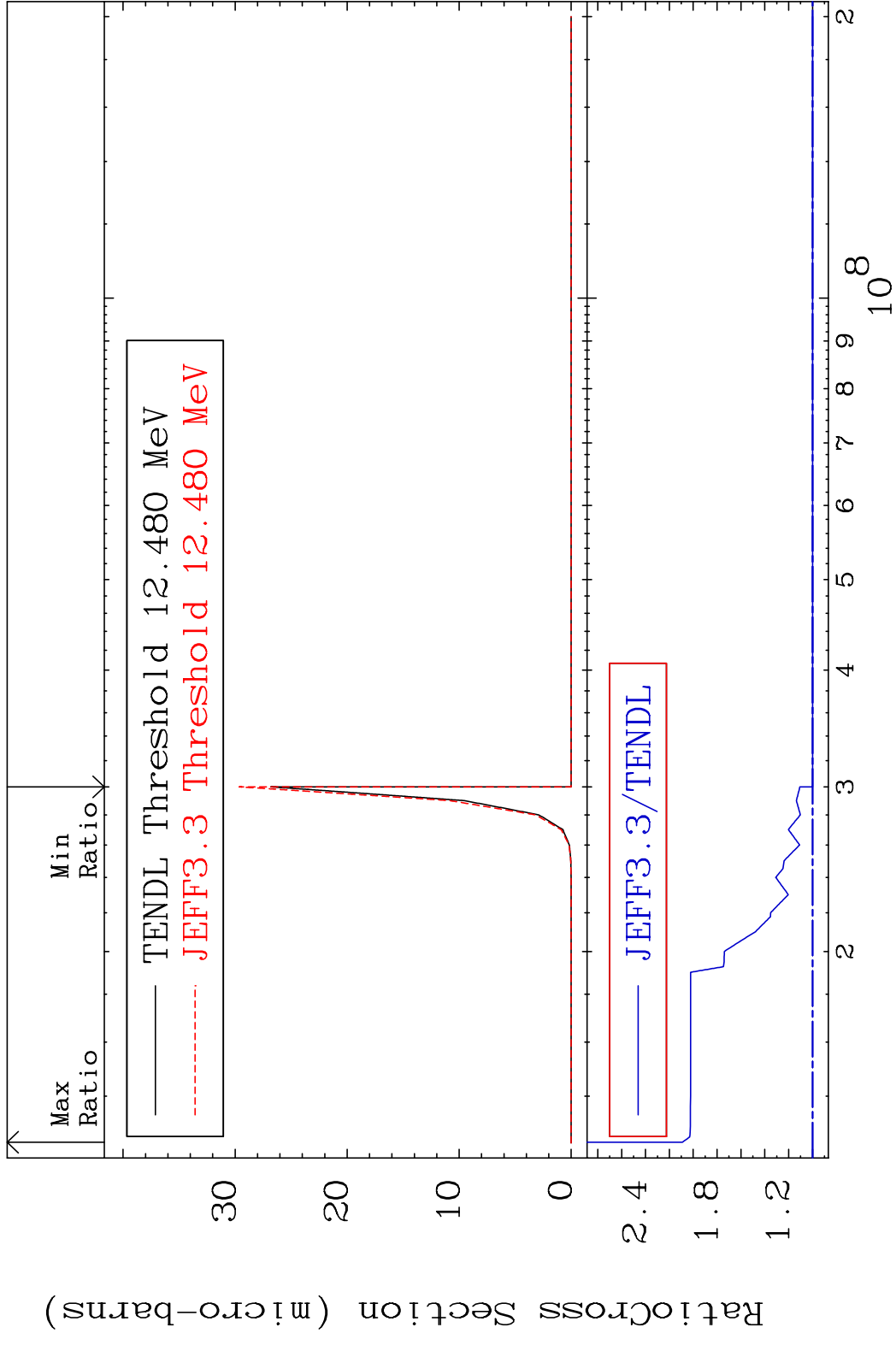
MAT 7031 (n,2n):70-Yb-169g 70-Yb-170  
 Radionuclide Production Cross Section 186.64 dth 36.23 %



80 Incident Energy (eV) 70-Yb-170



MAT 7031 (n, n') He-3:68-Er-167g 70-Yb-170  
 Radionuclide Production Cross Section 109.1 %



MAT 7031 (n, n') He-3:68-Er-167m3 70-Yb-170  
 Radionuclide Production Cross Section Ratio 79.78 %

