

Program Complot  
(Version 2021-1)

by

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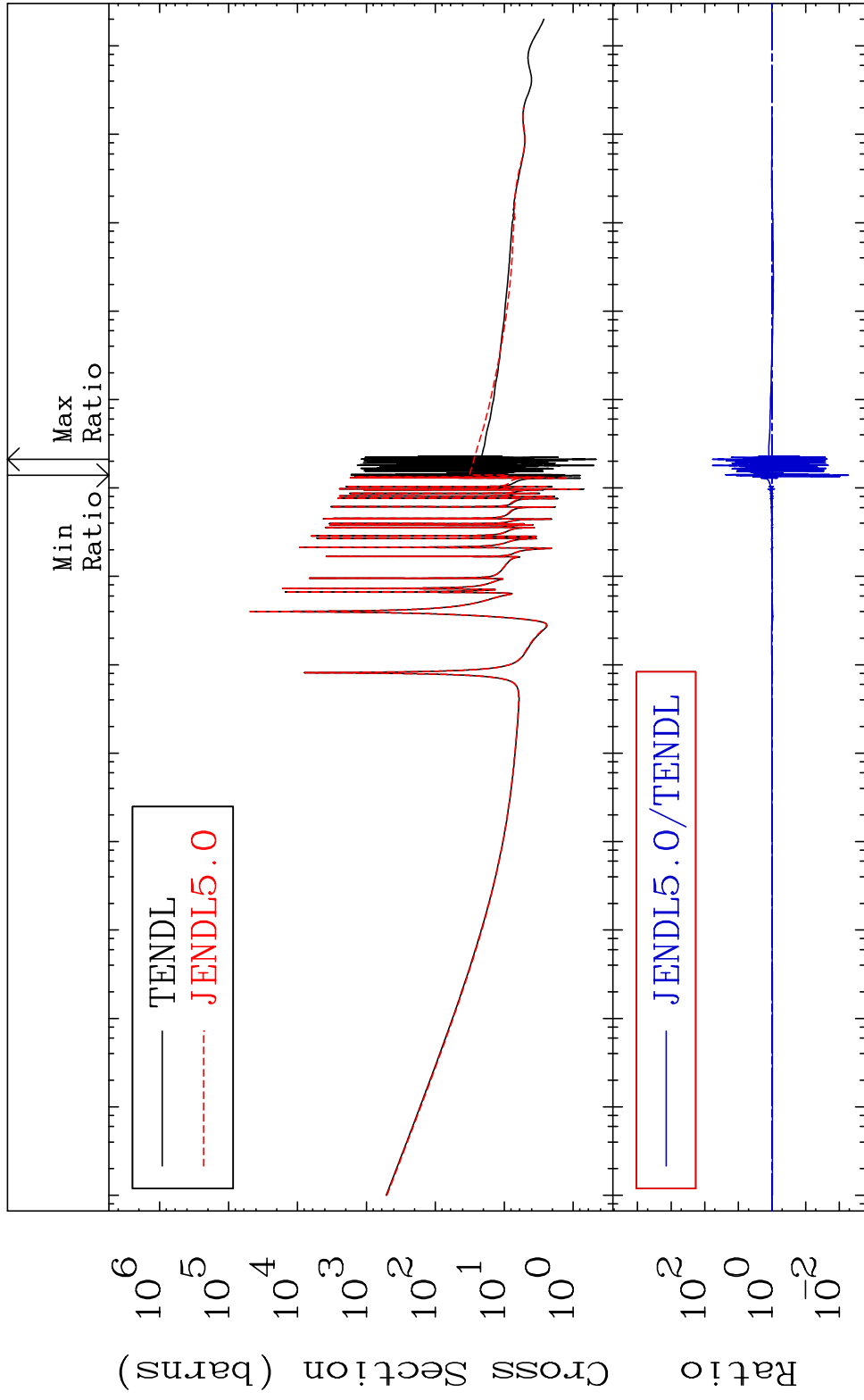
Press Mouse Button to Start

MAT 7031

Total

70-Yb-170

Cross Section -99.46 To 5836. %



1

Incident Energy (eV)

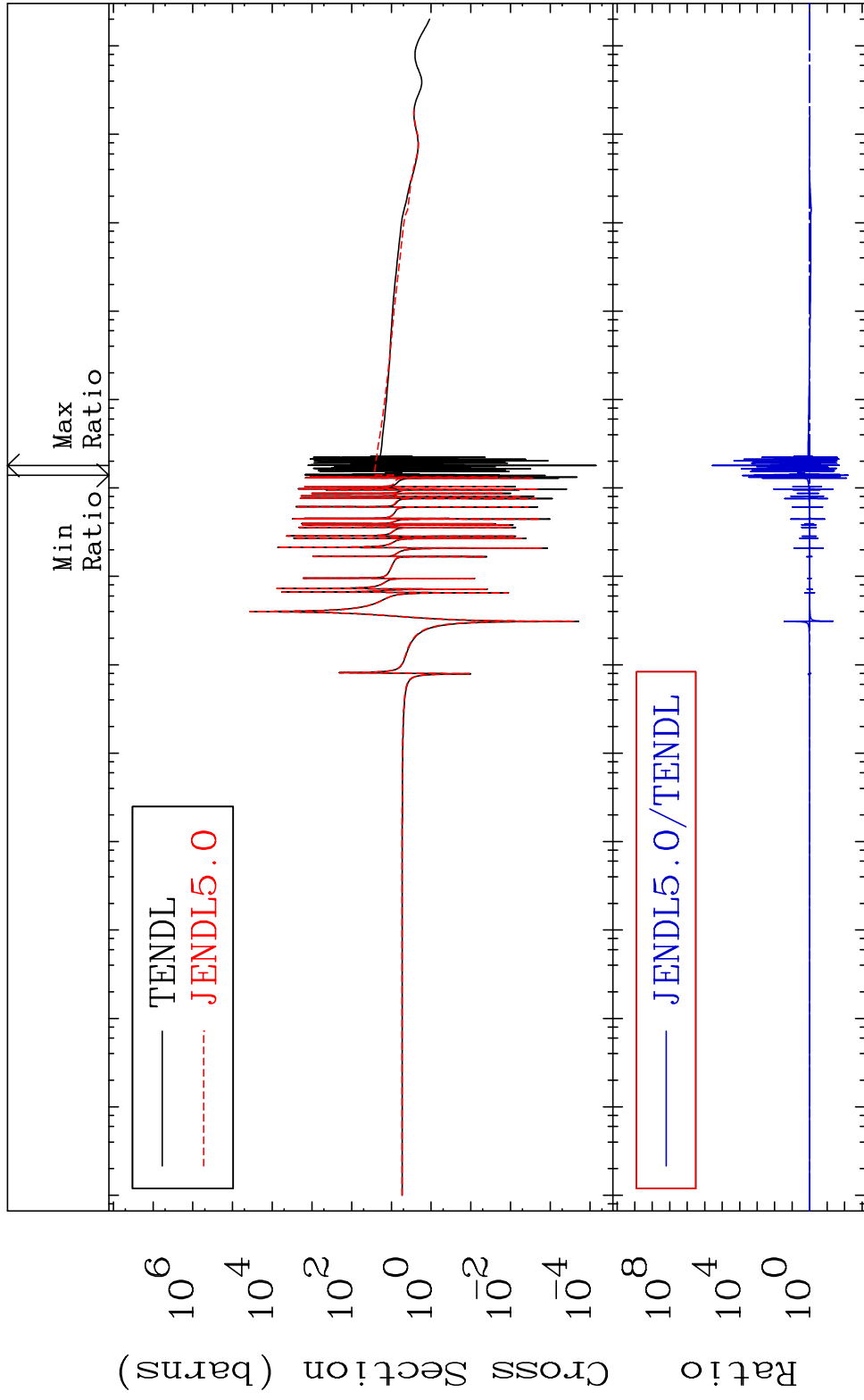
70-Yb-170

MAT 7031

Elastic

70-Yb-170

Cross Section -99.38 To 9999. %



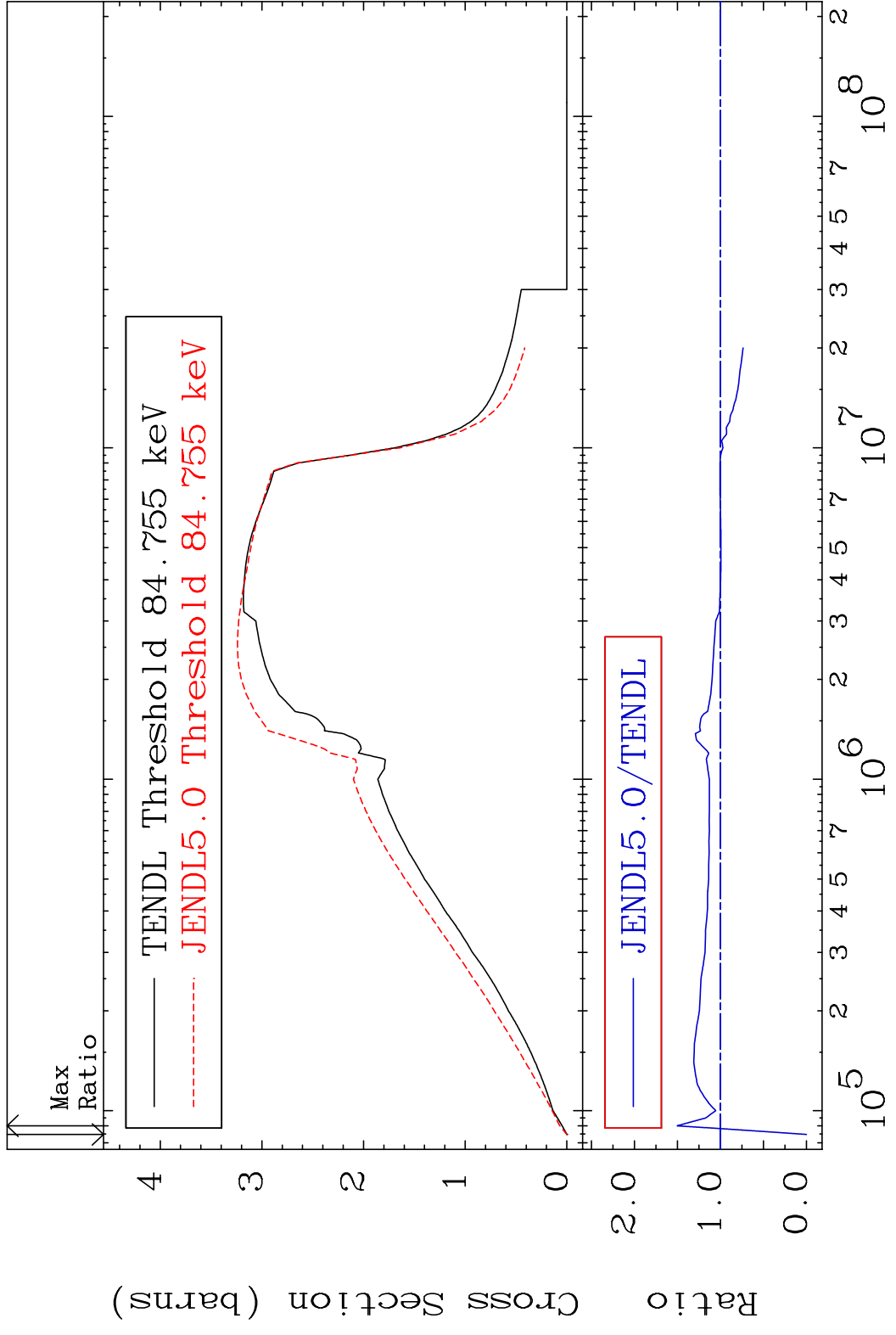
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

70-Yb-170

MAT 7031 Inelastic Cross Section -100.0 To 50.29 % 70-Yb-170



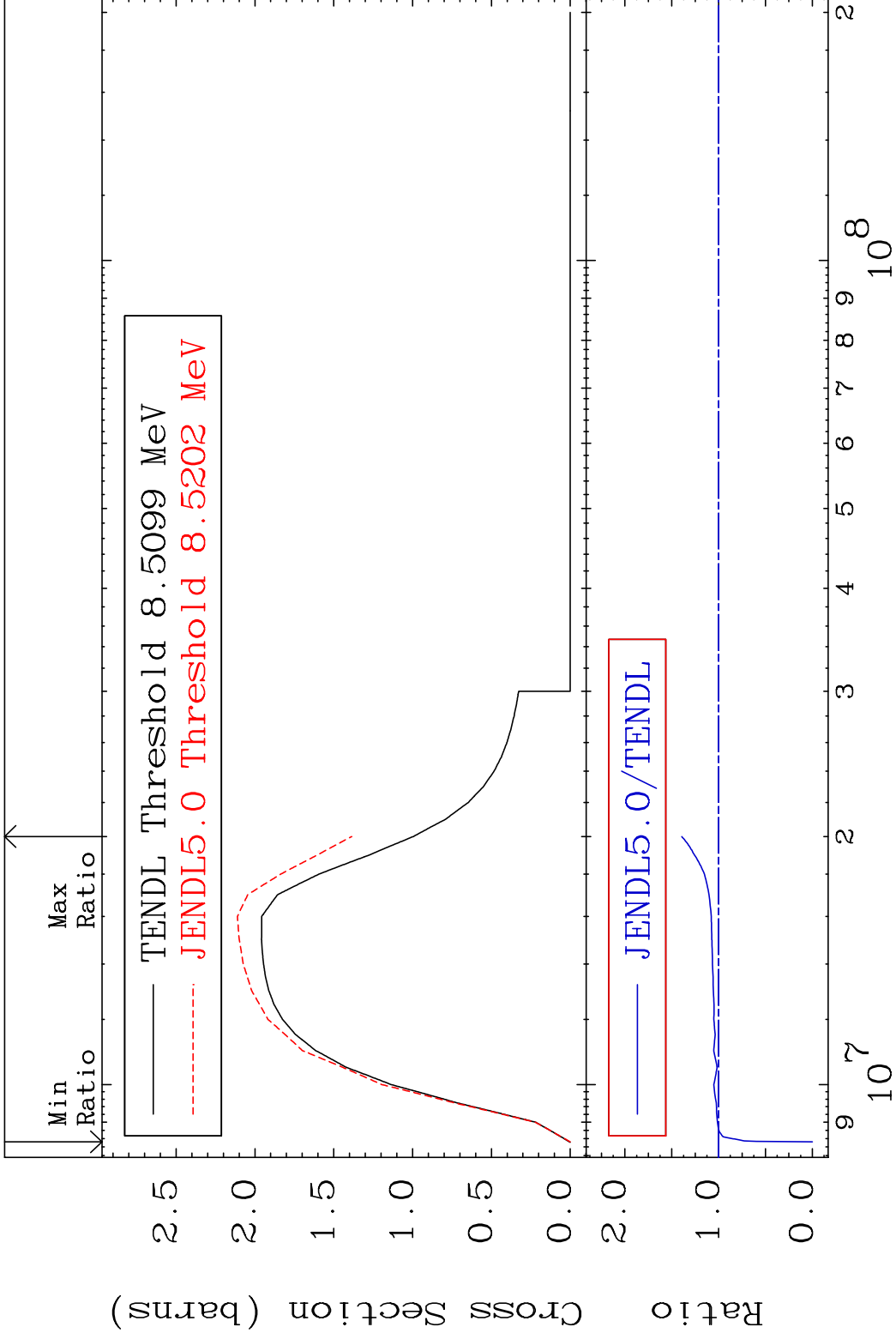
3 70-Yb-170

MAT 7031

(n,2n)

70-Yb-170

Cross Section -100.0 To 39.37 %



4

Incident Energy (eV)

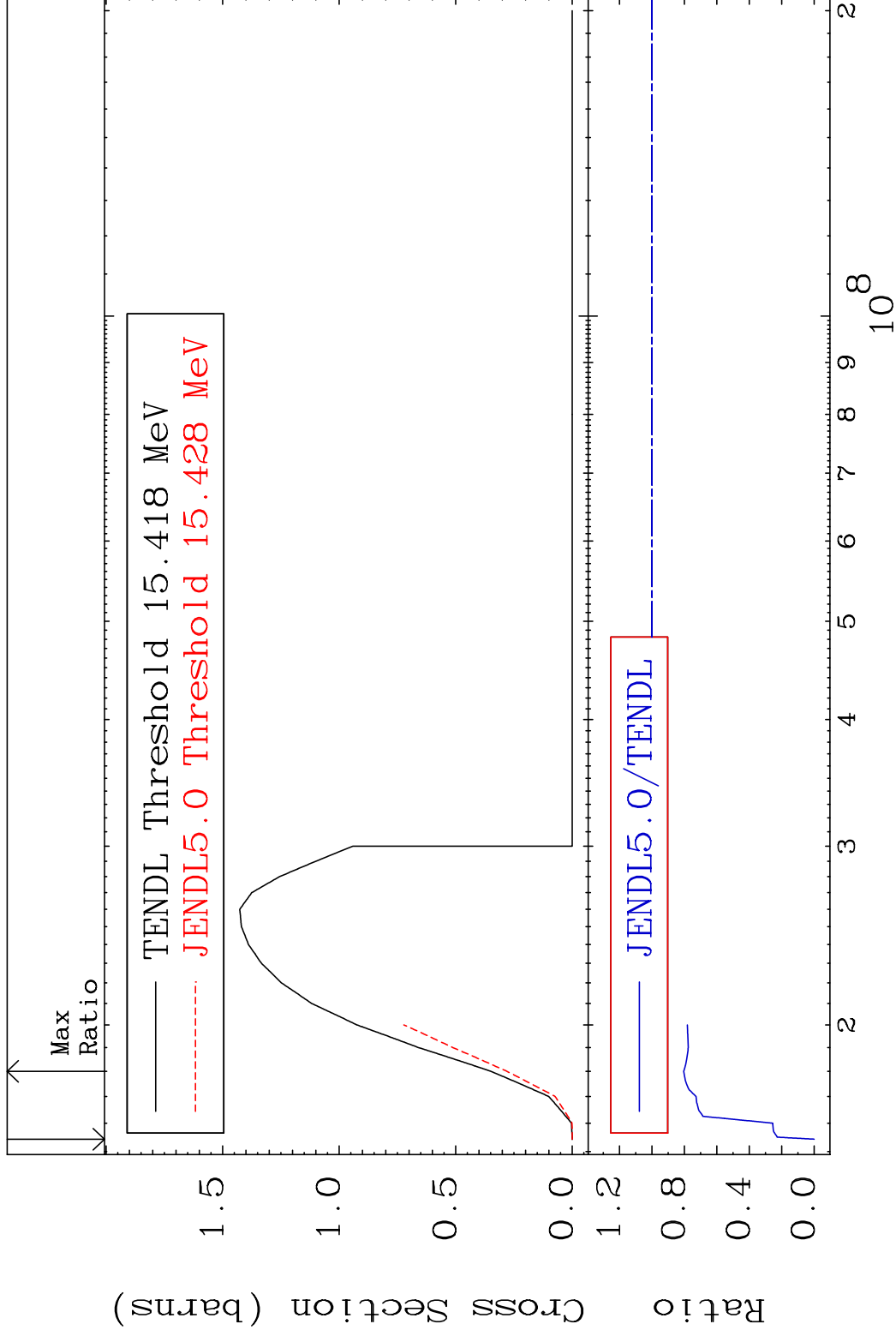
70-Yb-170

MAT 7031

(n,3n)

70-Yb-170

Cross Section -100.0 To -19.53%



5

Incident Energy (eV)

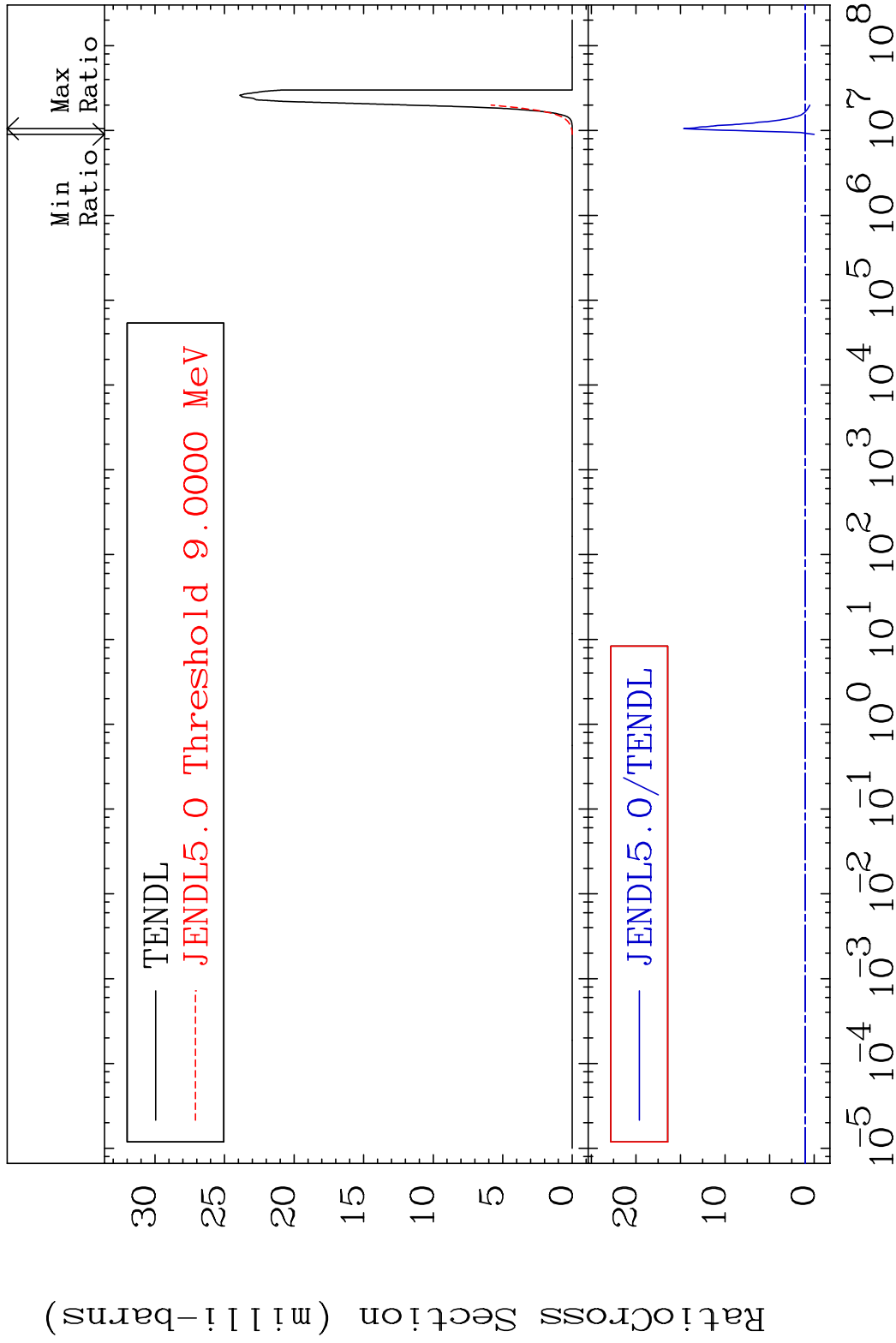
70-Yb-170

MAT 7031

(n, n')  $\alpha$

70-Yb-170

Cross Section -100.0 To 1364. %



6

Incident Energy (eV)

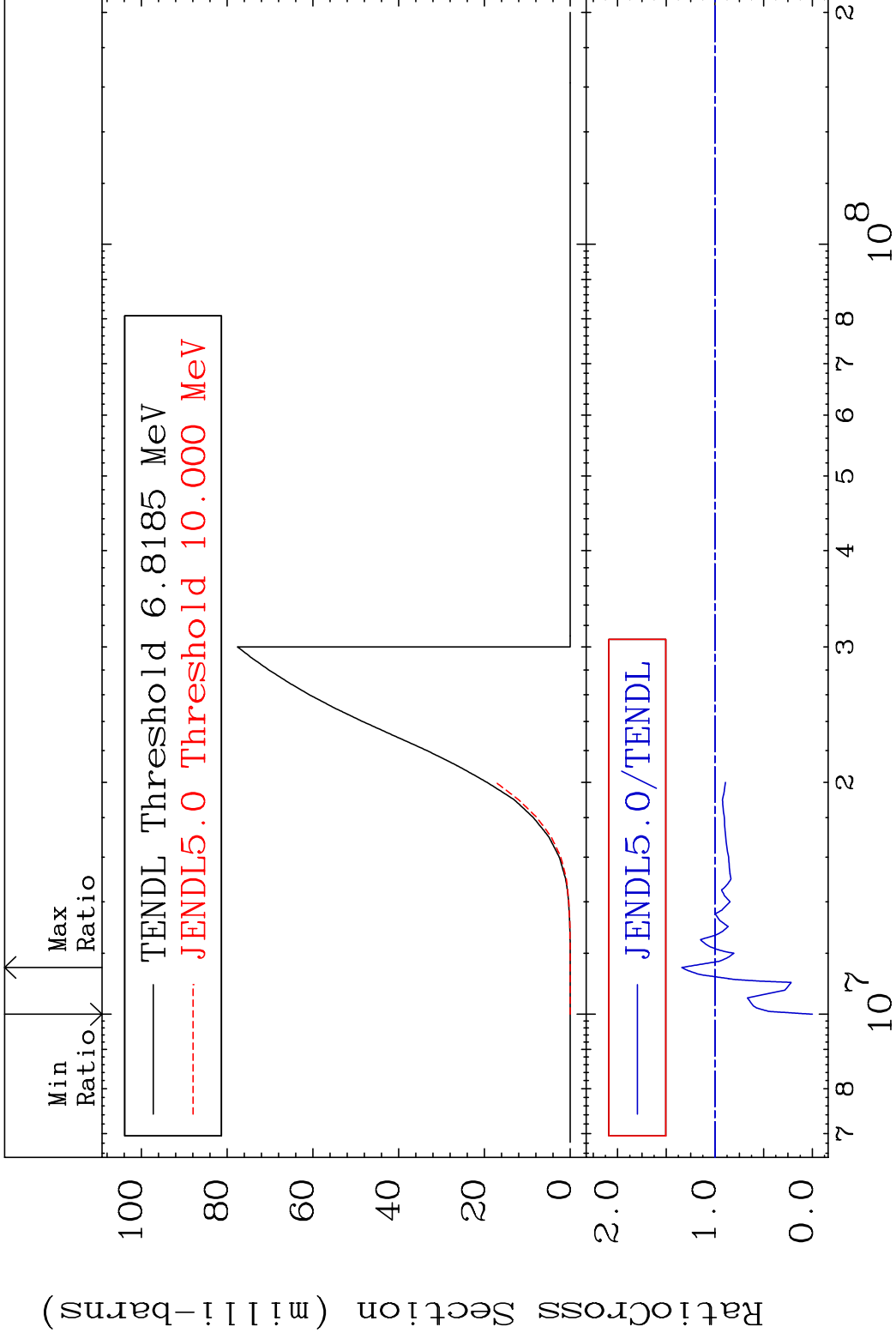
70-Yb-170

MAT 7031

(n, n') p

70-Yb-170

Cross Section -100.0 To 34.12 %



7

Incident Energy (eV)

70-Yb-170

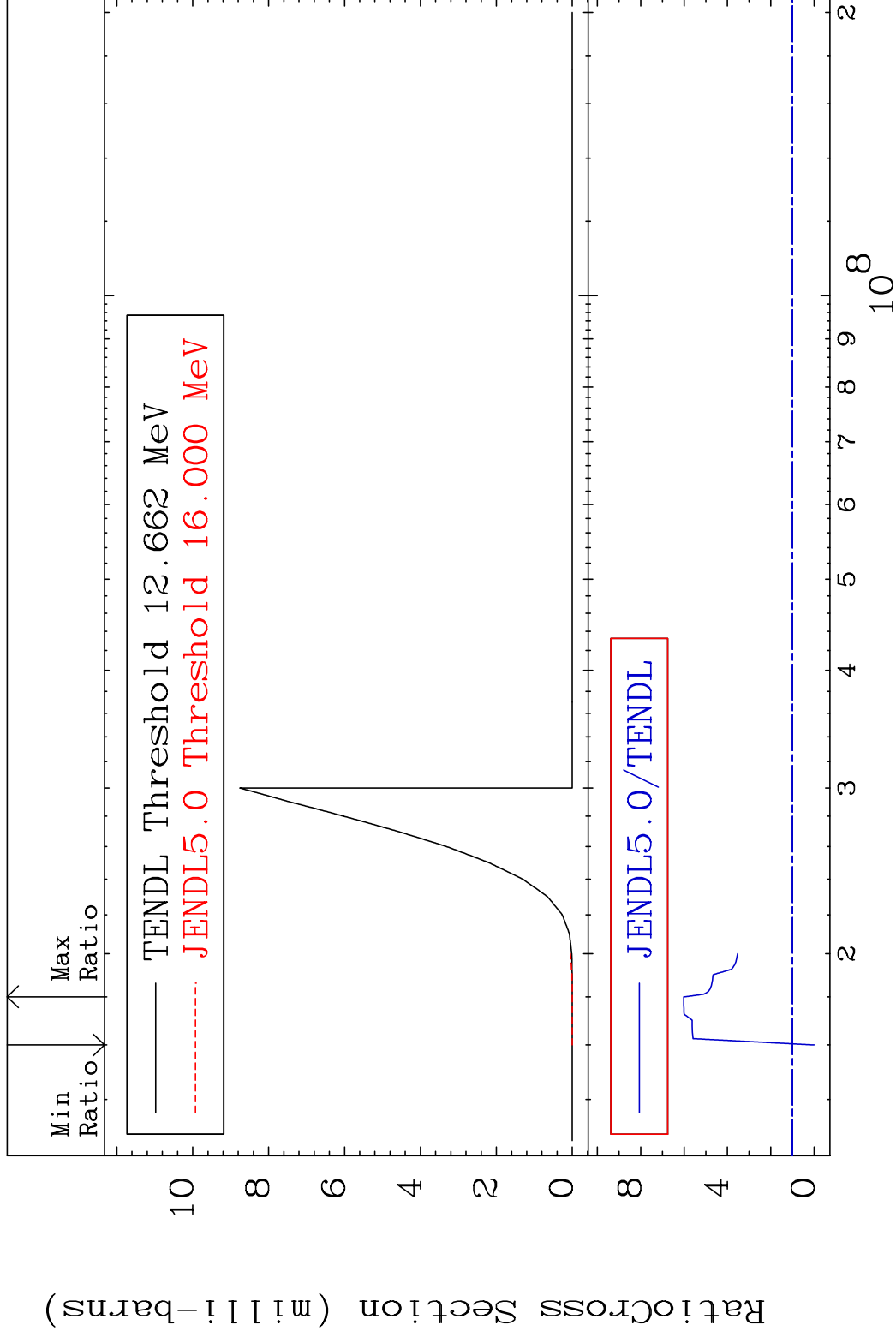


MAT 7031

(n, n') d

70-Yb-170

Cross Section -100.0 To 502.0 %

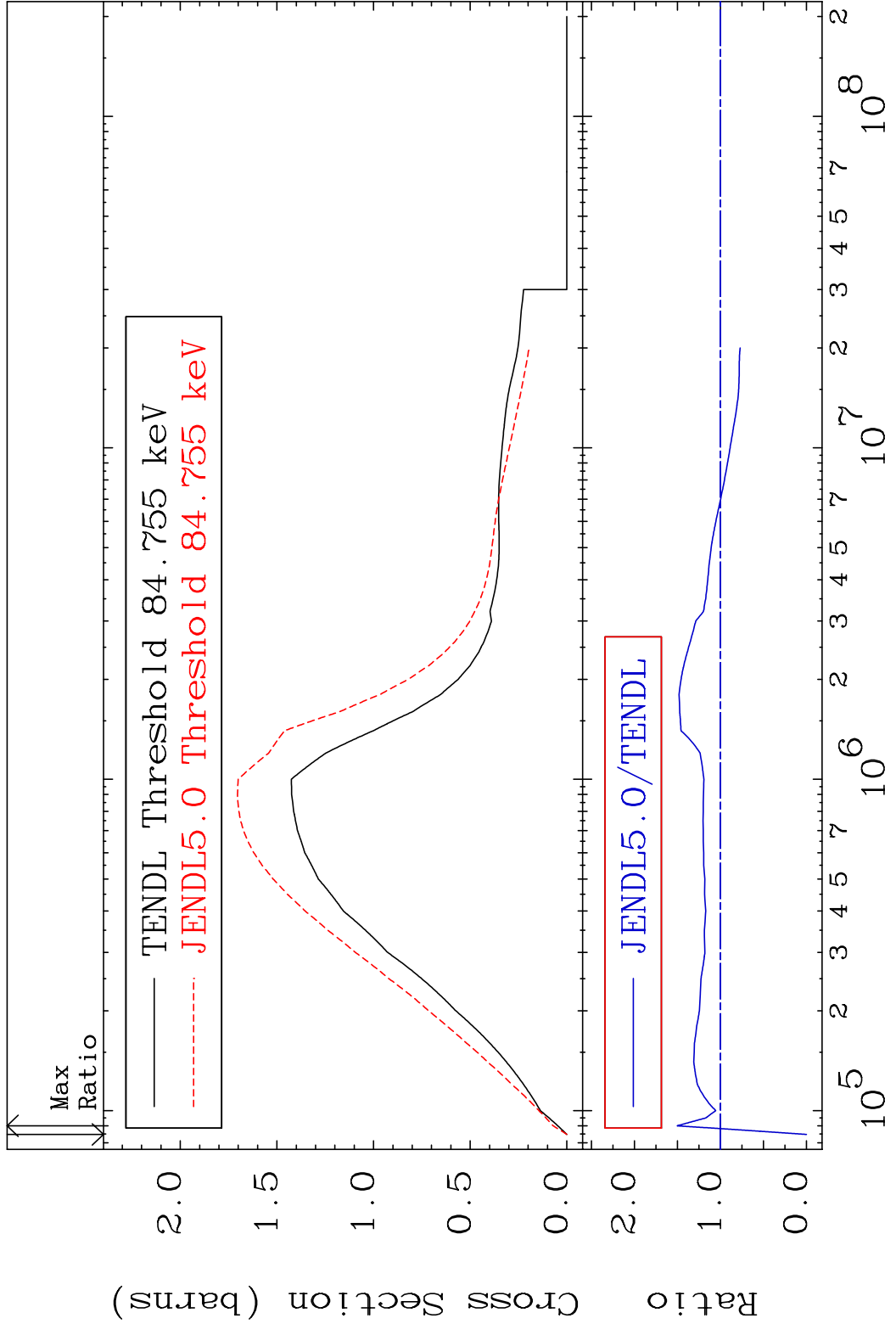


8

Incident Energy (eV)

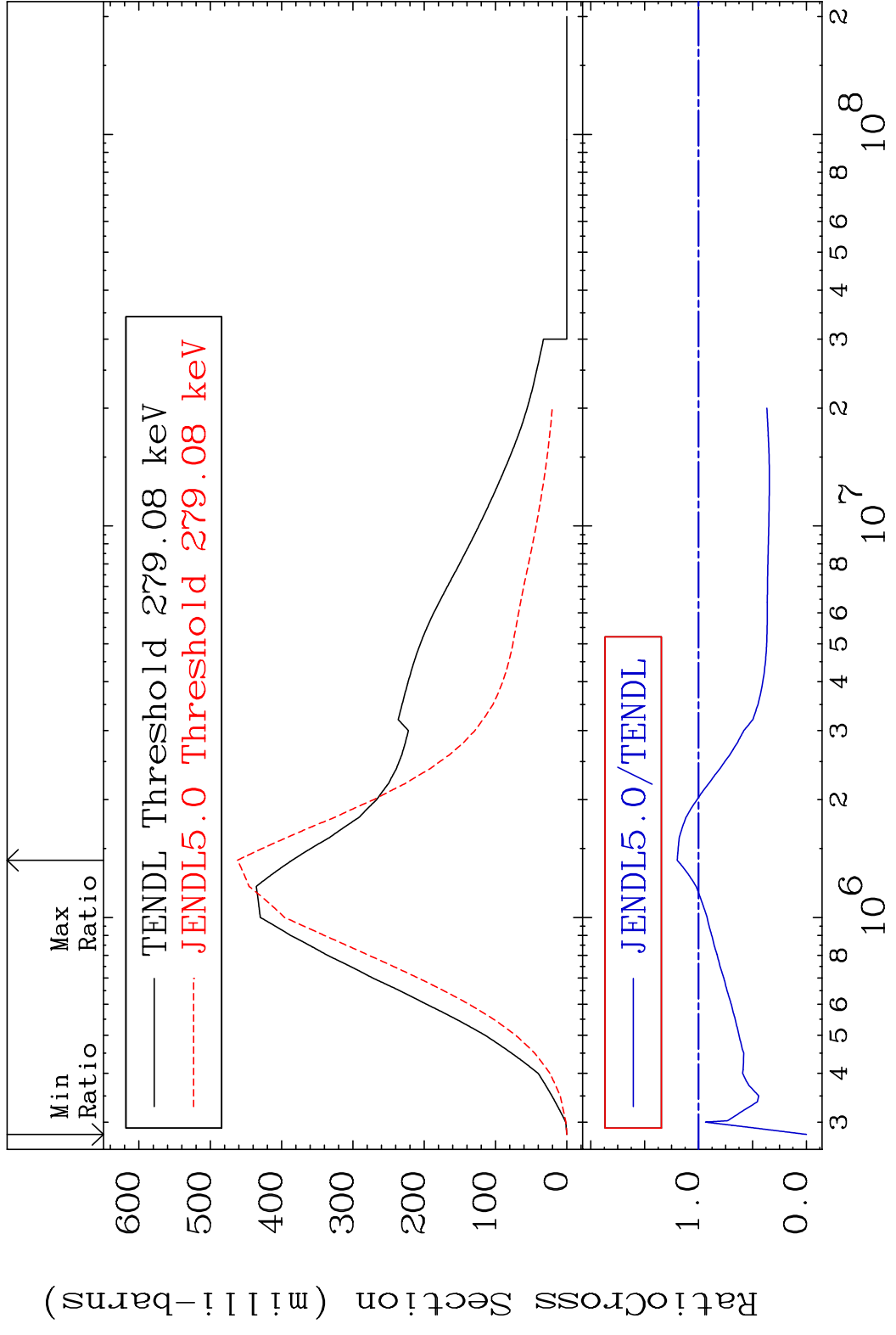
70-Yb-170

MAT 7031 MT= 51 (n,n') Level 70-Yb-170  
 Cross Section -100.0 To 50.29 %



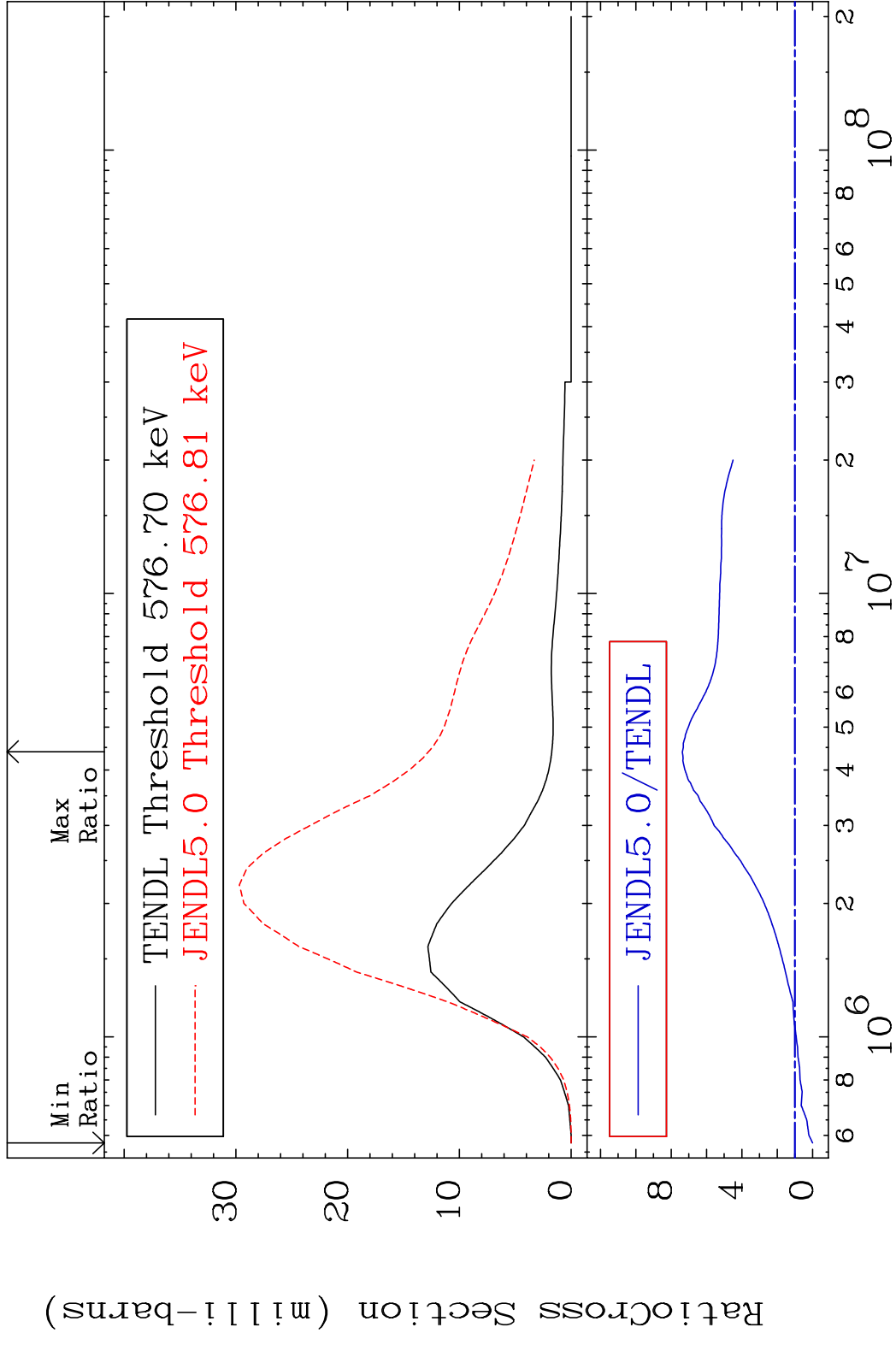
9 Incident Energy (eV) 70-Yb-170

MAT 7031 MT= 52 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 19.87 %

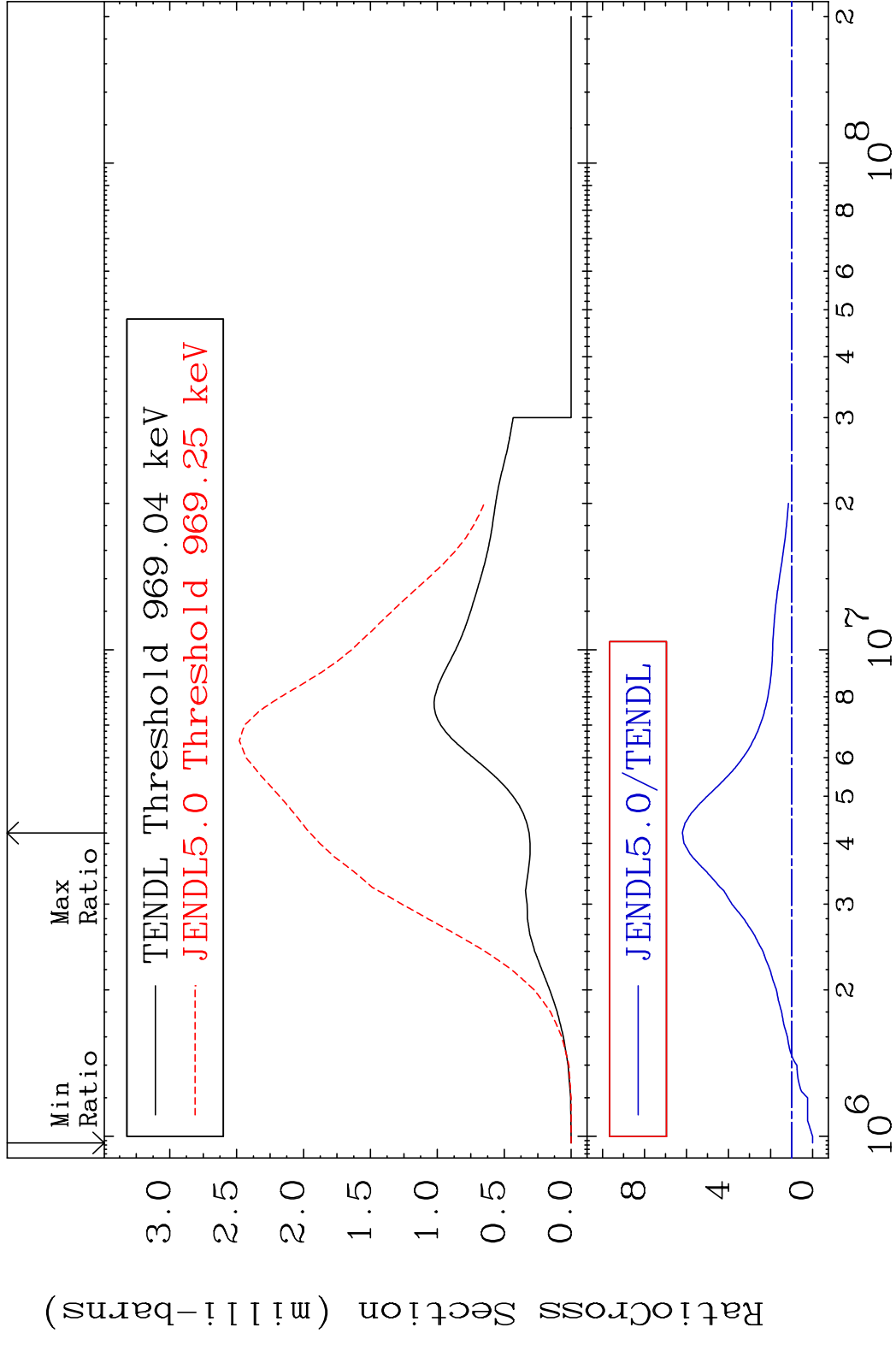


10 Incident Energy (eV) 70-Yb-170

MAT 7031 MT= 53 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 636.6 %

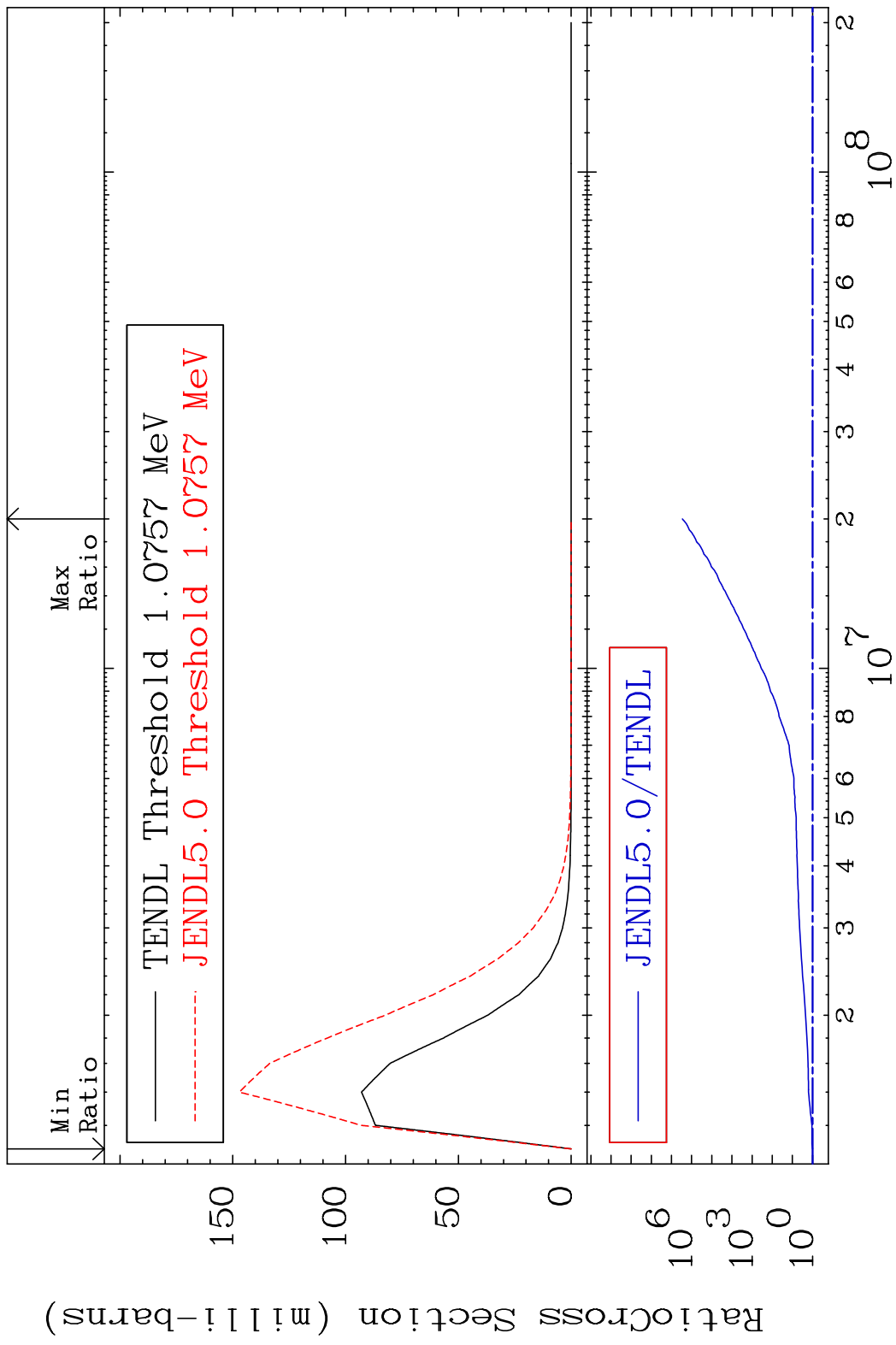


MAT 7031 MT= 54 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 519.8 %

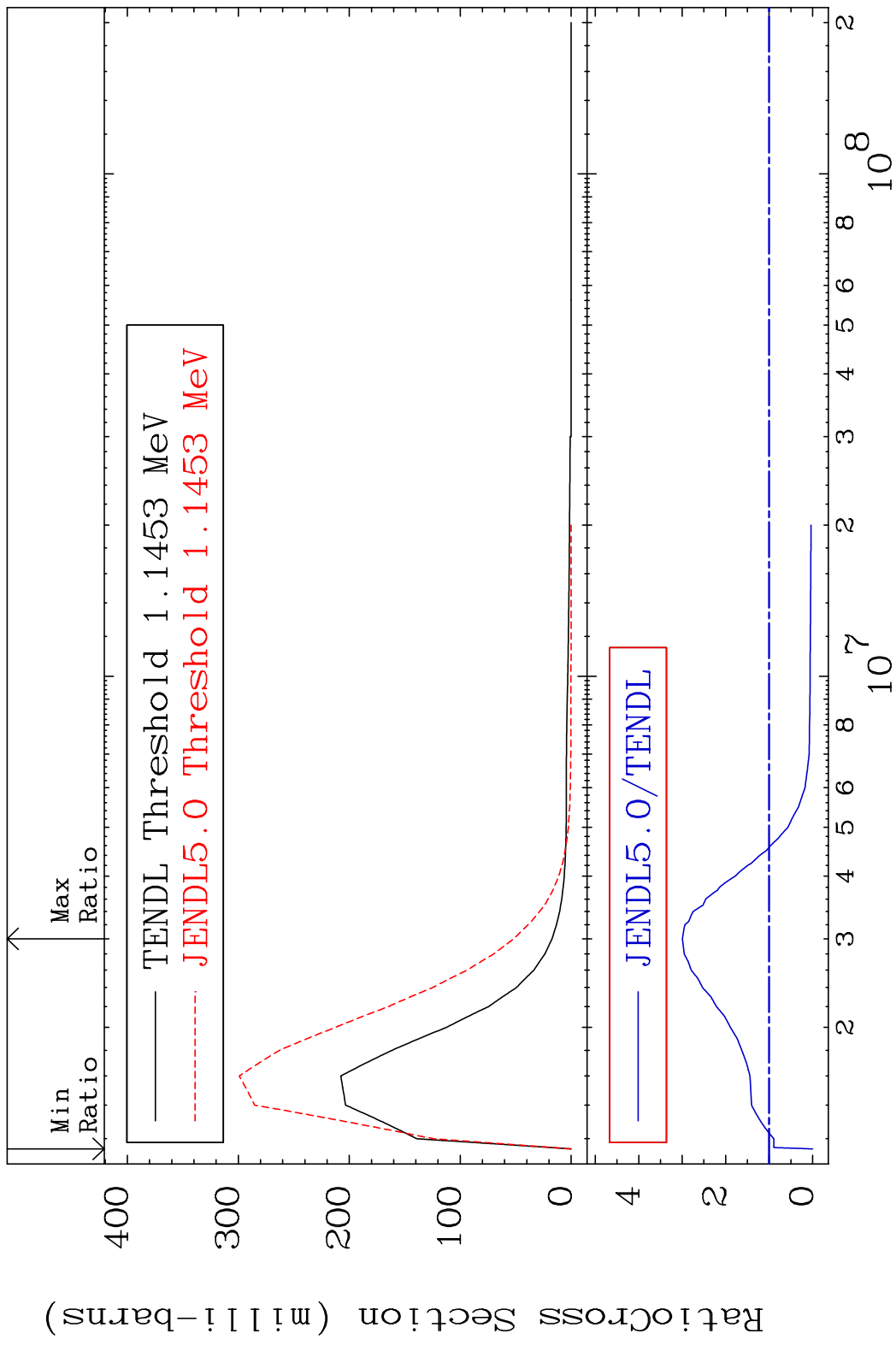


12      Incident Energy (eV)      70-Yb-170

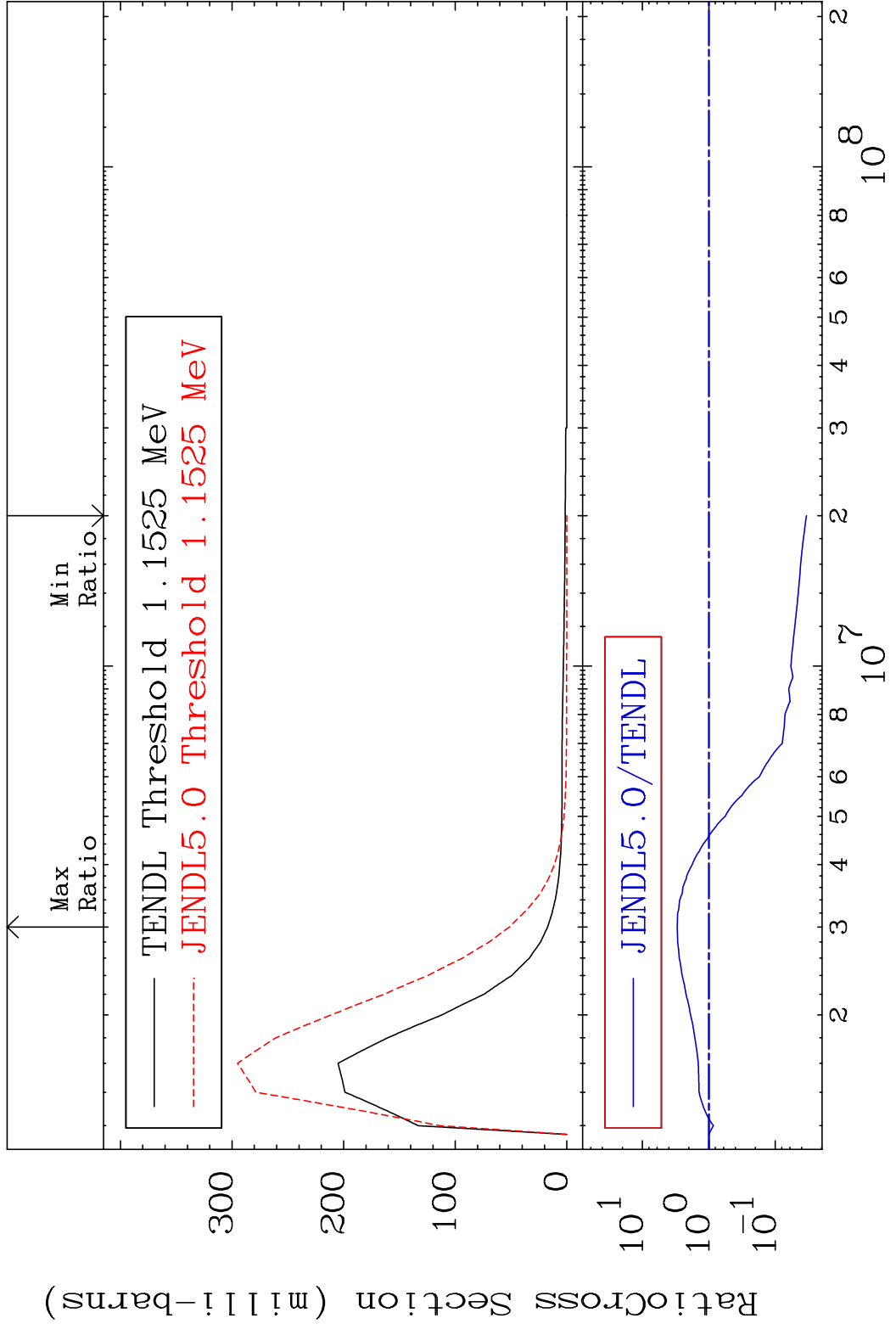
MAT 7031 MT= 55 (n, n') Level 70-Yb-170  
 Cross Section 0.000 To 9999. %



MAT 7031 MT= 56 (n,n') Level 70-Yb-170  
 Cross Section -100.0 To 199.7 %

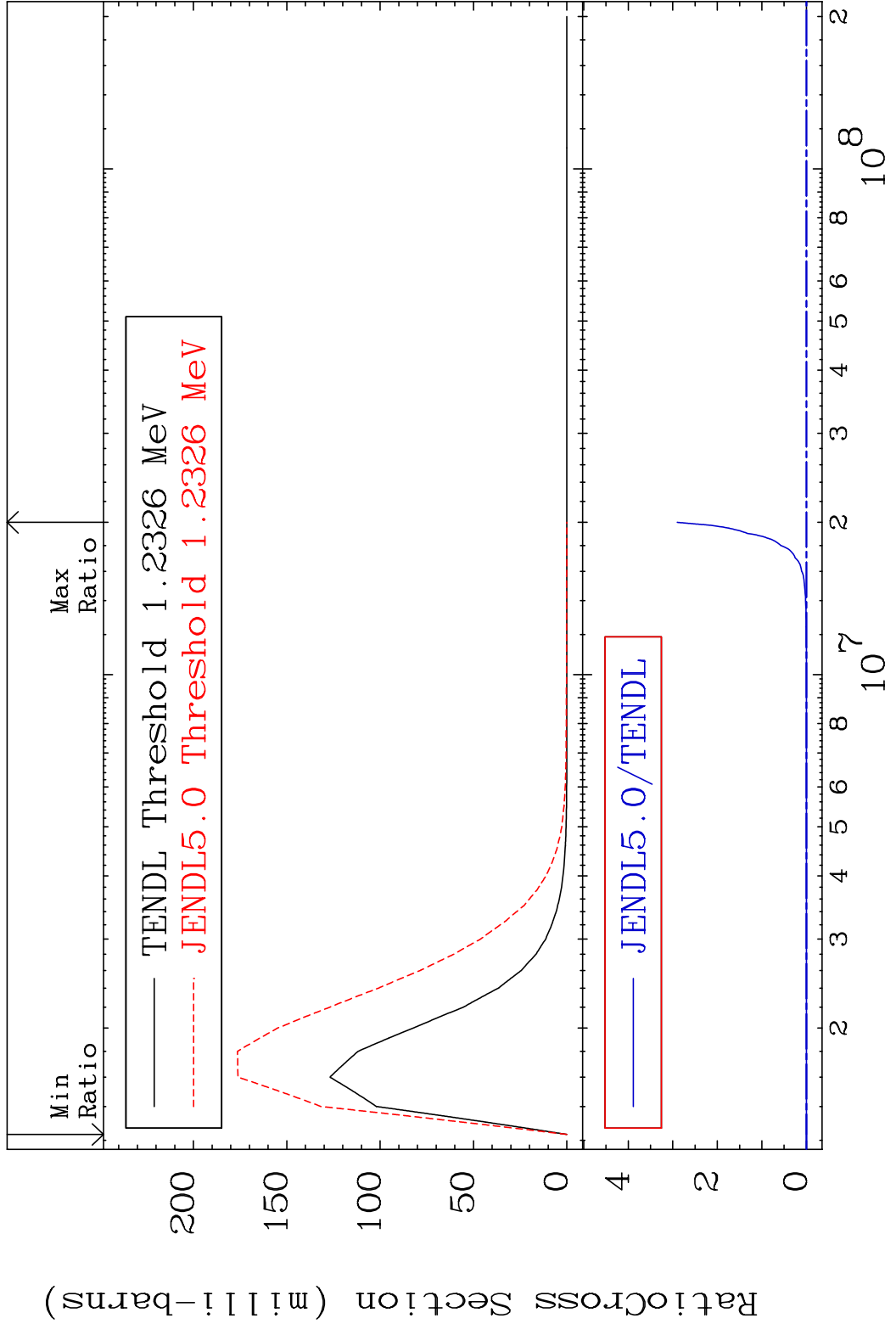


MAT 7031 MT= 57 (n, n') Level 70-Yb-170  
 Cross Section -96.60 To 199.4 %

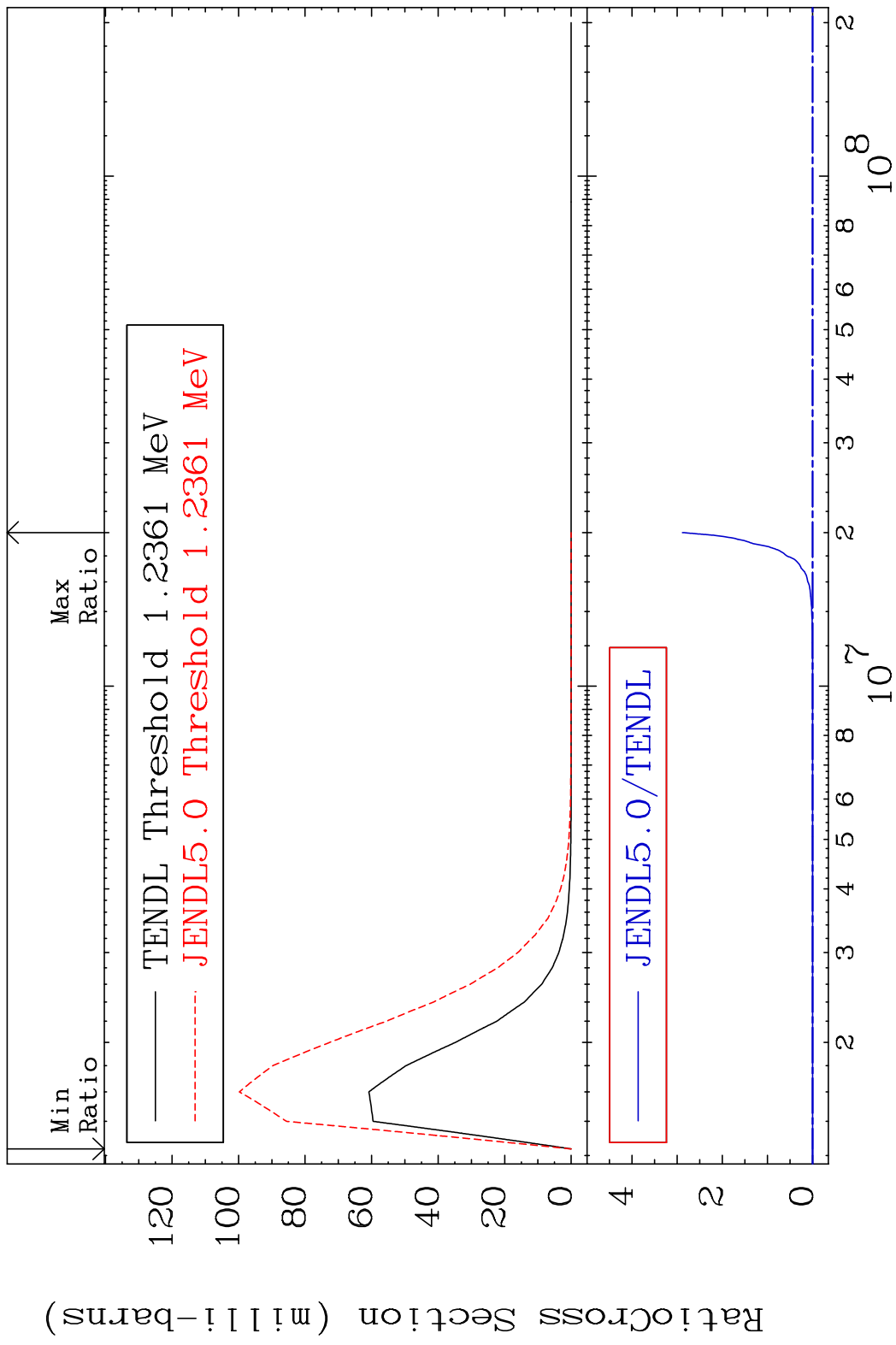




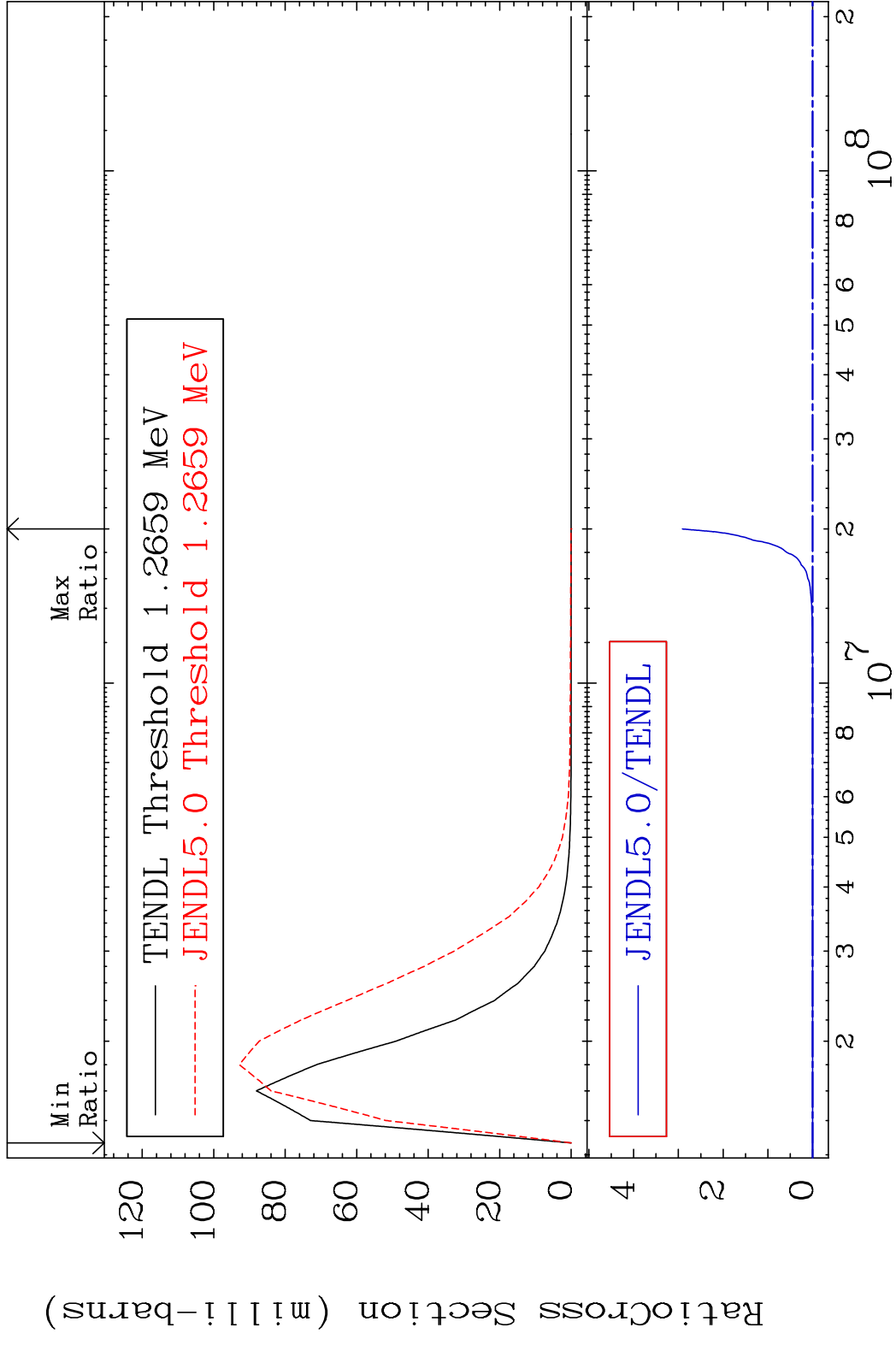
MAT 7031 MT= 58 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 9999. %



MAT 7031 MT= 59 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 9999. %



MAT 7031 MT= 60 (n, n') Level 70-Yb-170  
 Cross Section -100.0 To 9999. %

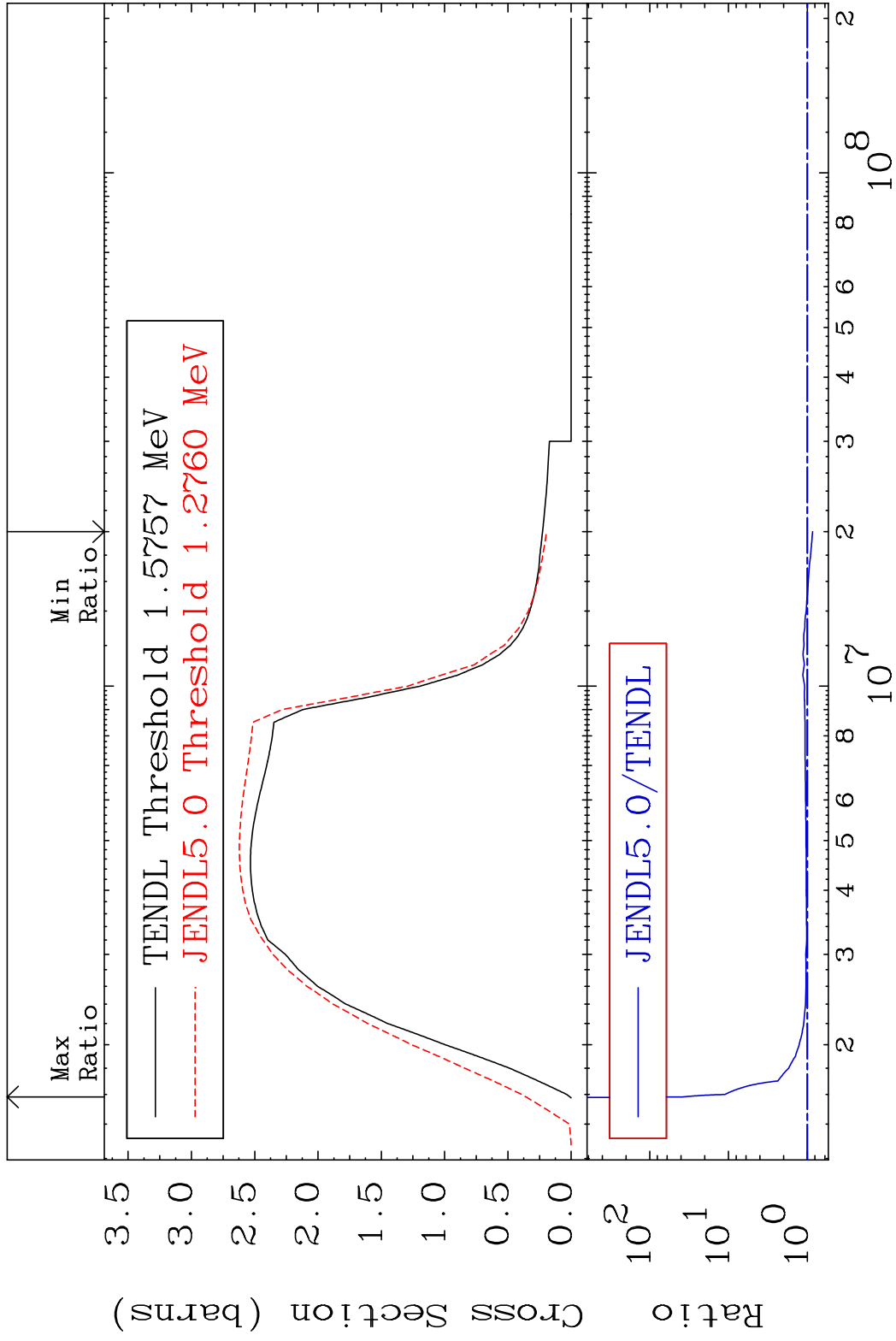


MAT 7031

(n, n') Continuum

70-Yb-170

Cross Section -14.17 To 3753. %

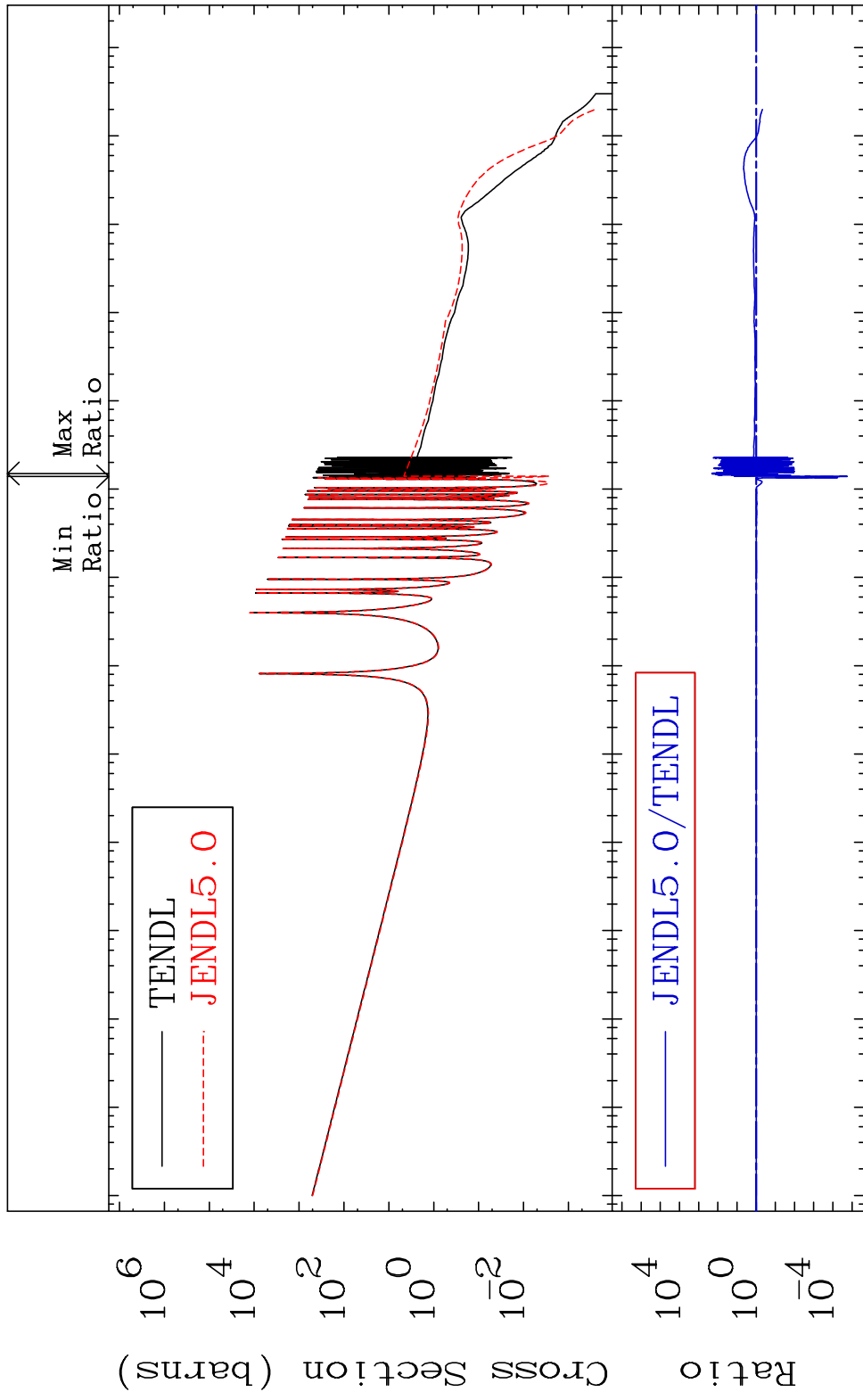


MAT 7031

(n,  $\gamma$ )

70-Yb-170

Cross Section -100.0 To 9999. %



20

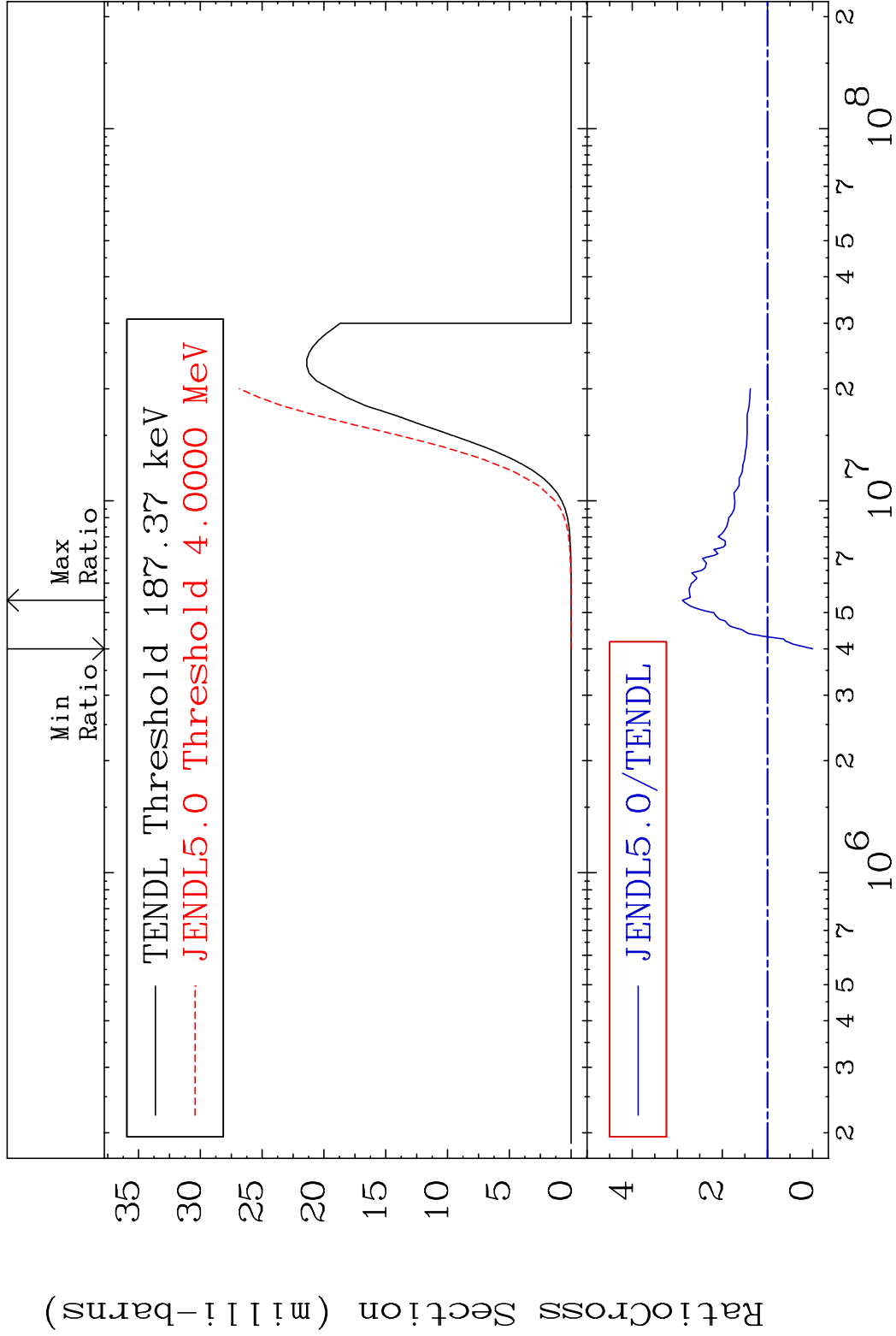
70-Yb-170

MAT 7031

(n,p)

70-Yb-170

Cross Section -100.0 To 188.7 %

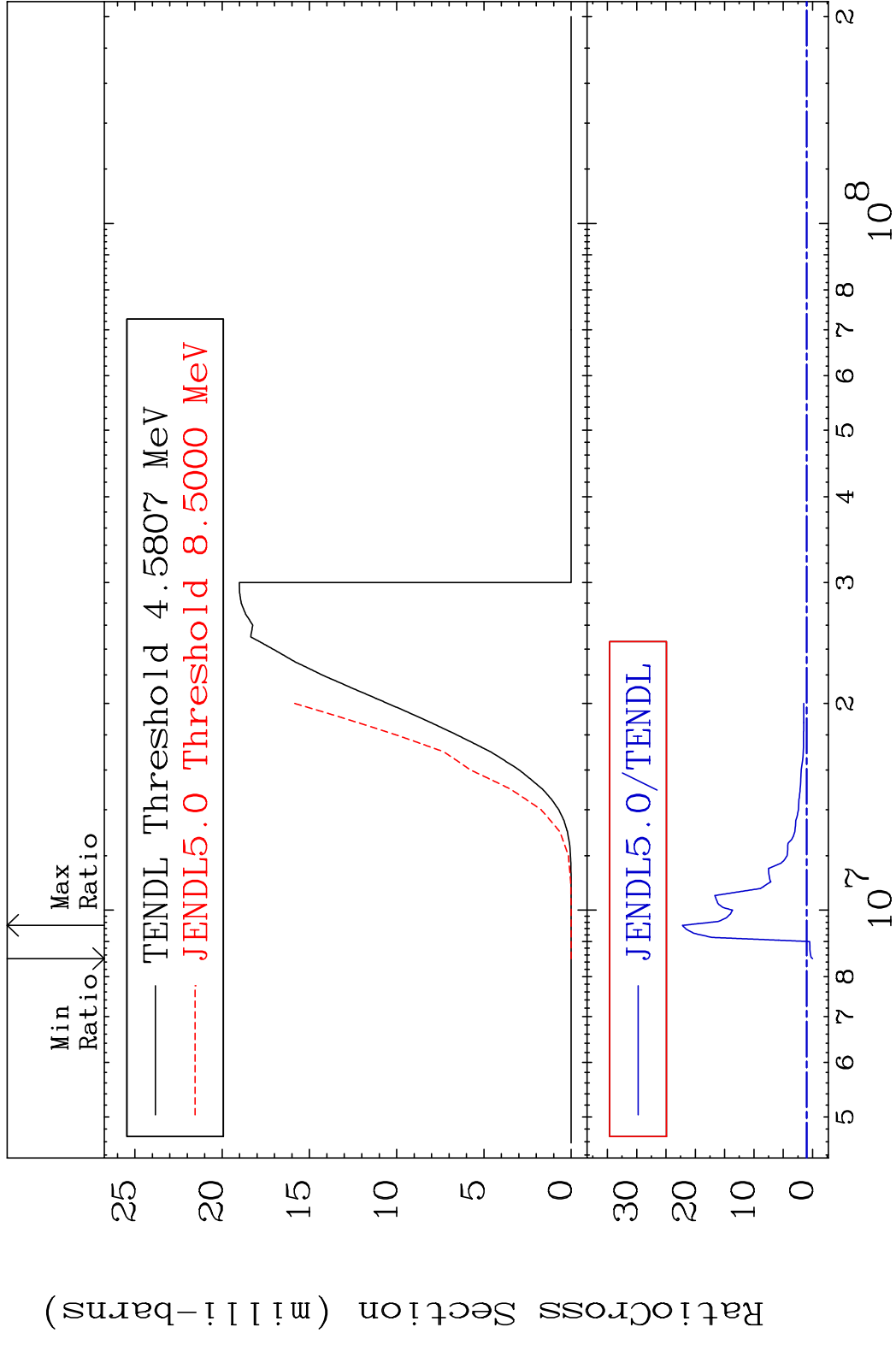


21

Incident Energy (eV)

70-Yb-170

MAT 7031 (n,d) 70-Yb-170  
 Cross Section -100.0 To 2121. %

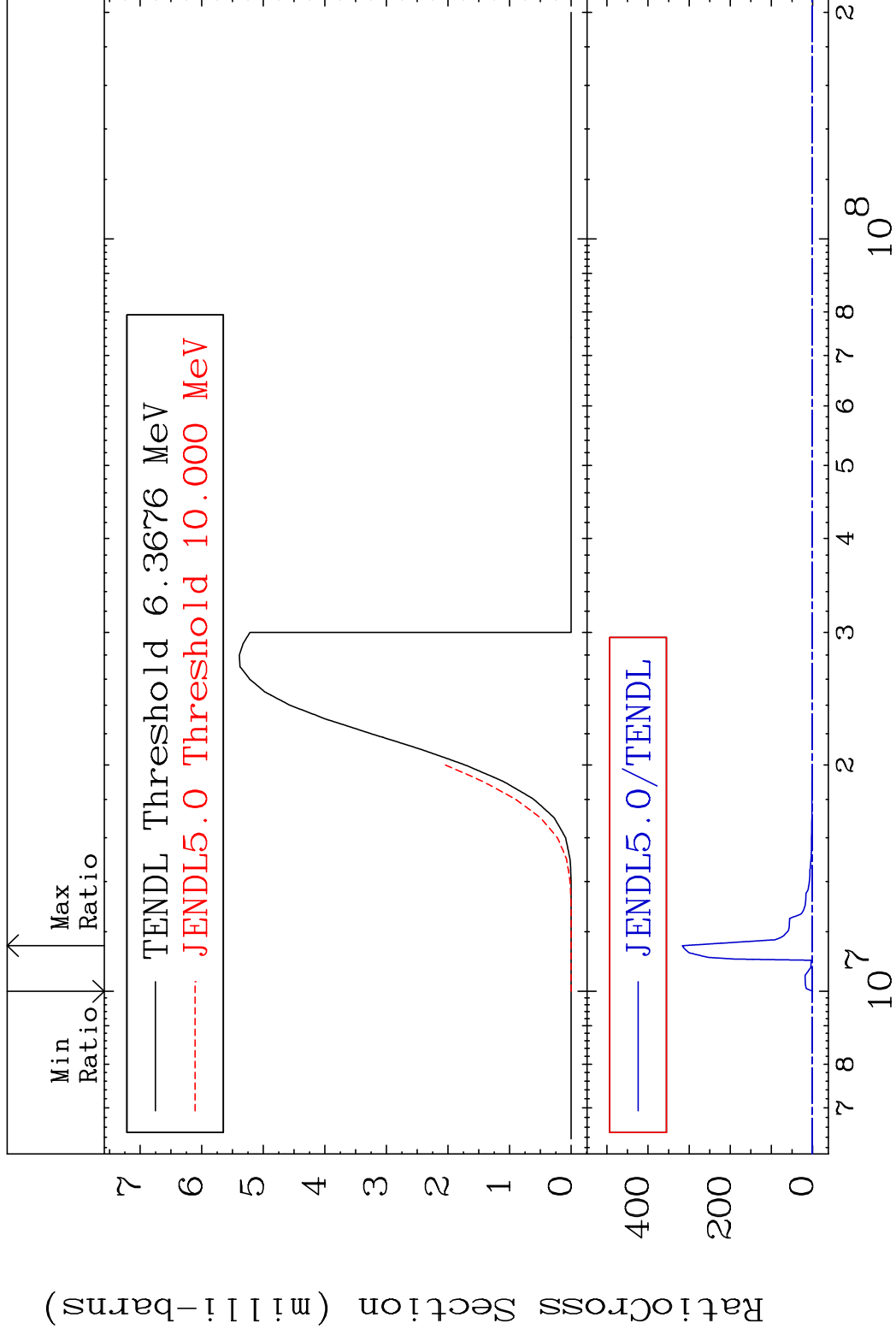


MAT 7031

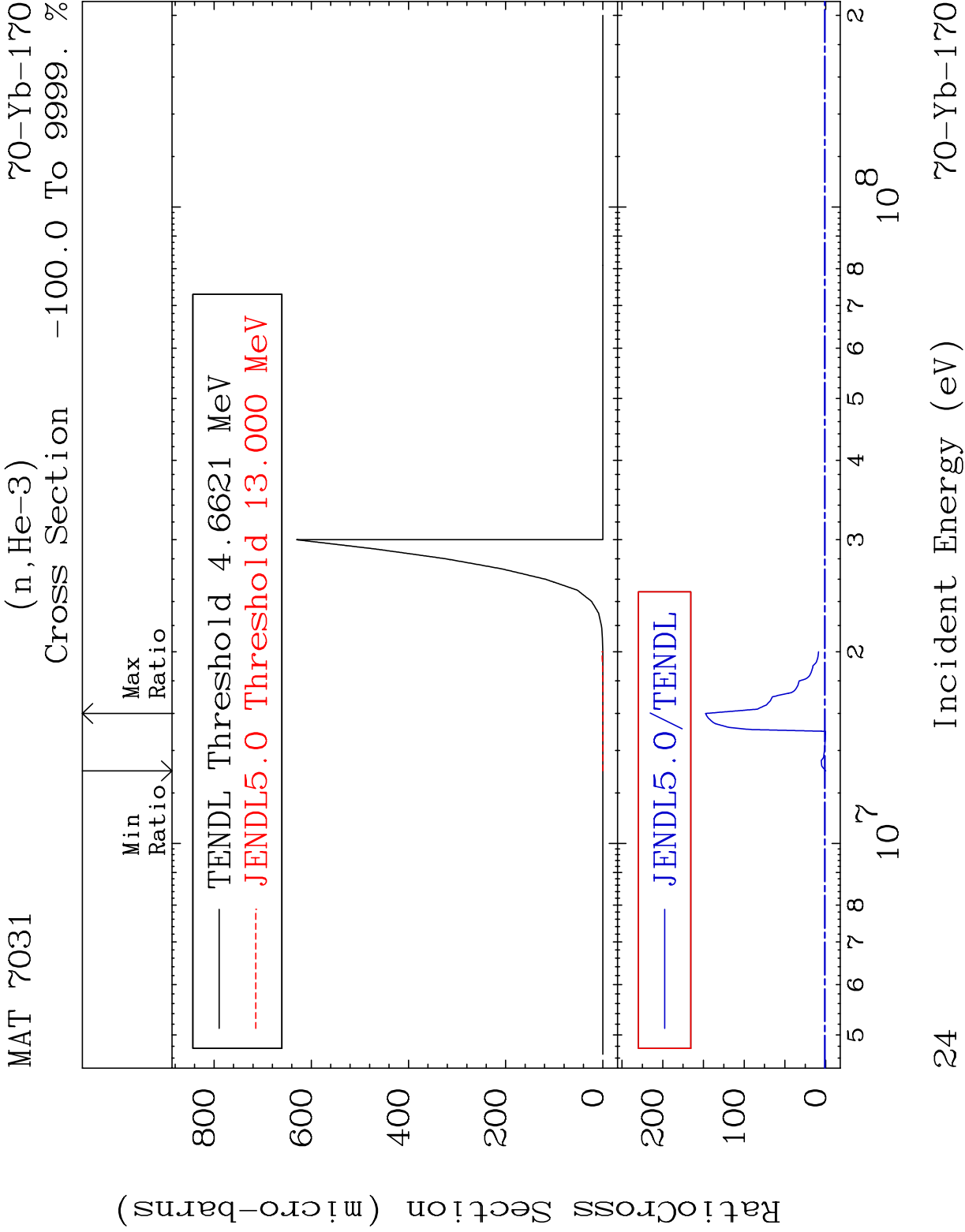
(n, t)

70-Yb-170

Cross Section -100.0 To 9999. %





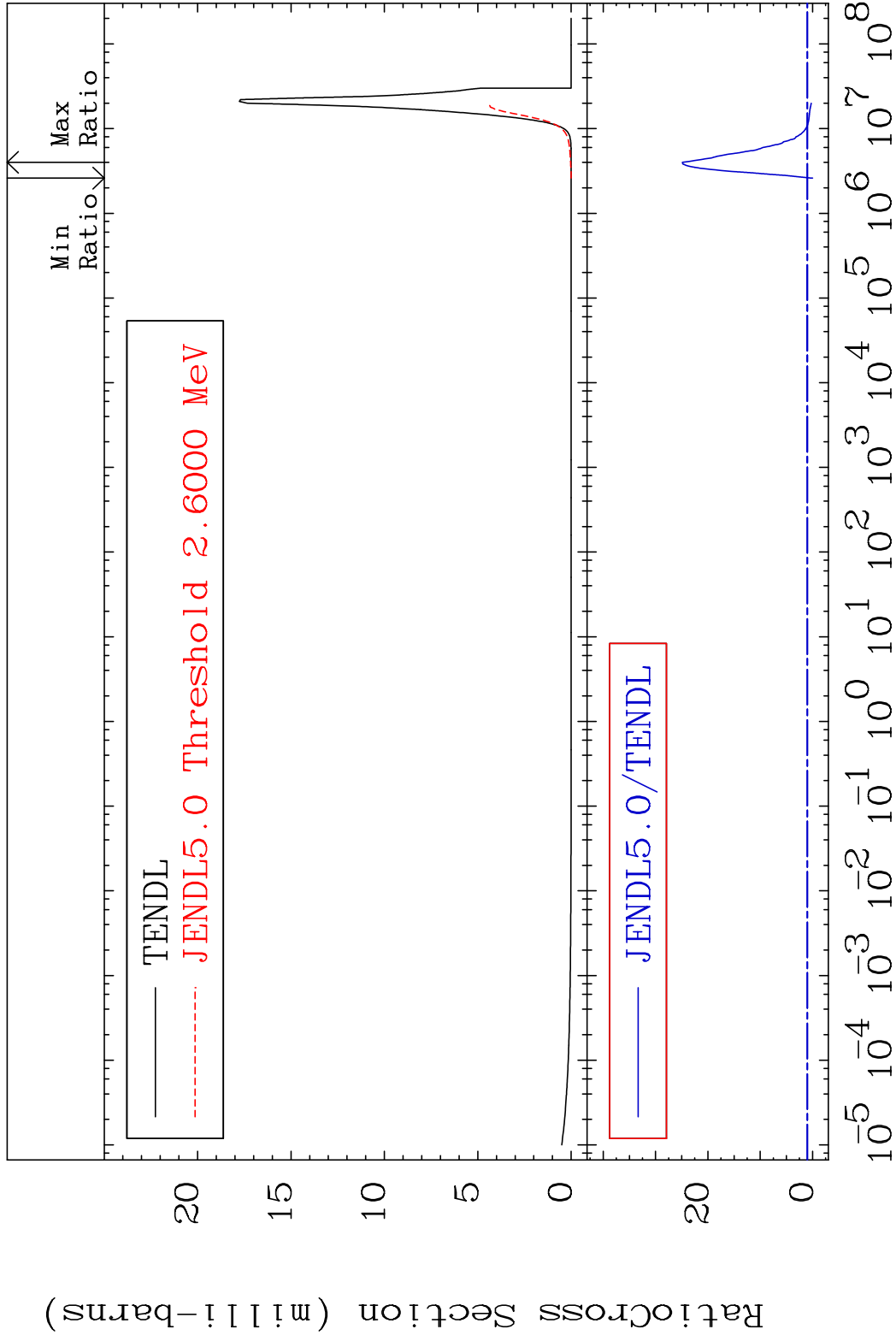


MAT 7031

(n,  $\alpha$ )

70-Yb-170

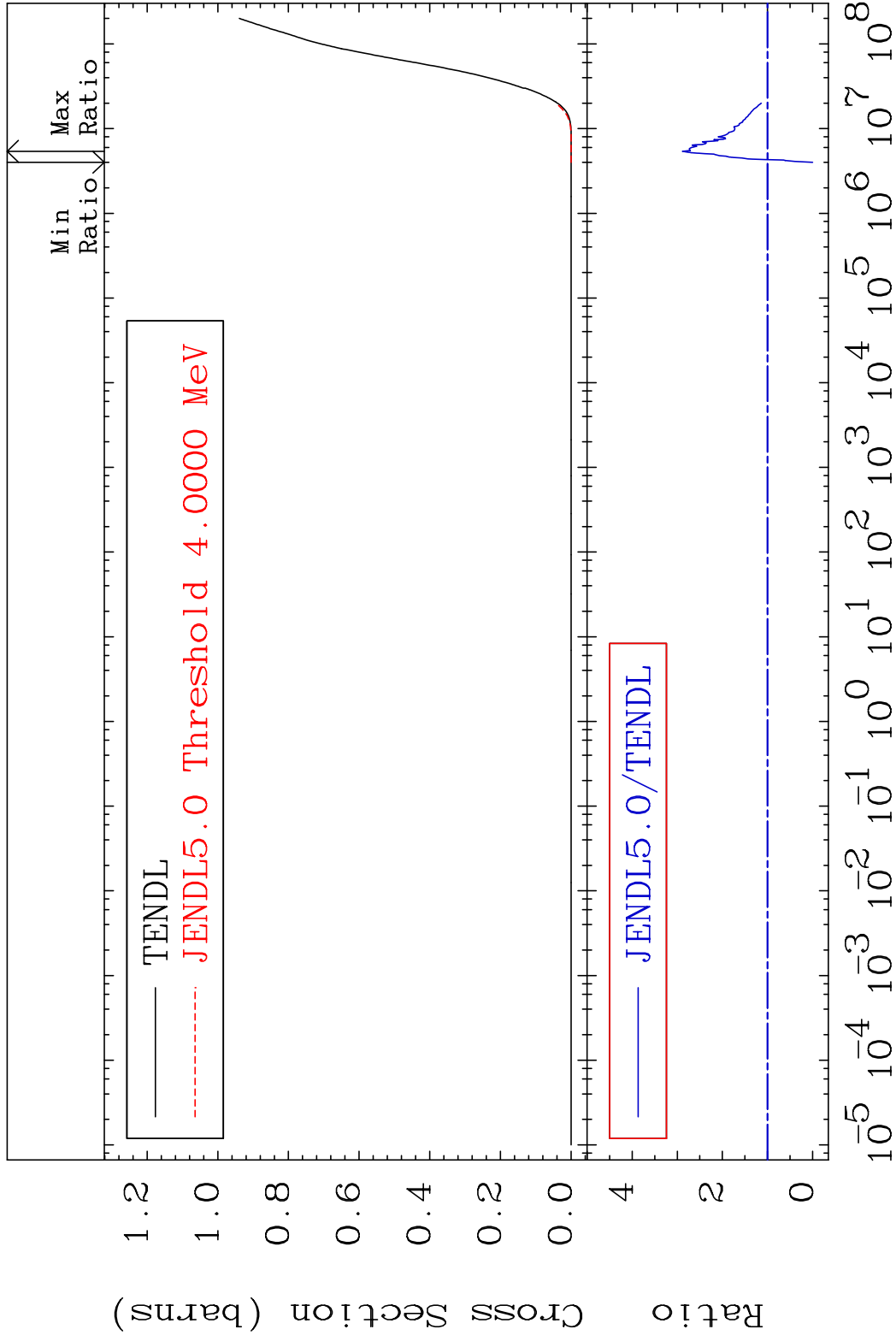
Cross Section -100.0 To 2388. %

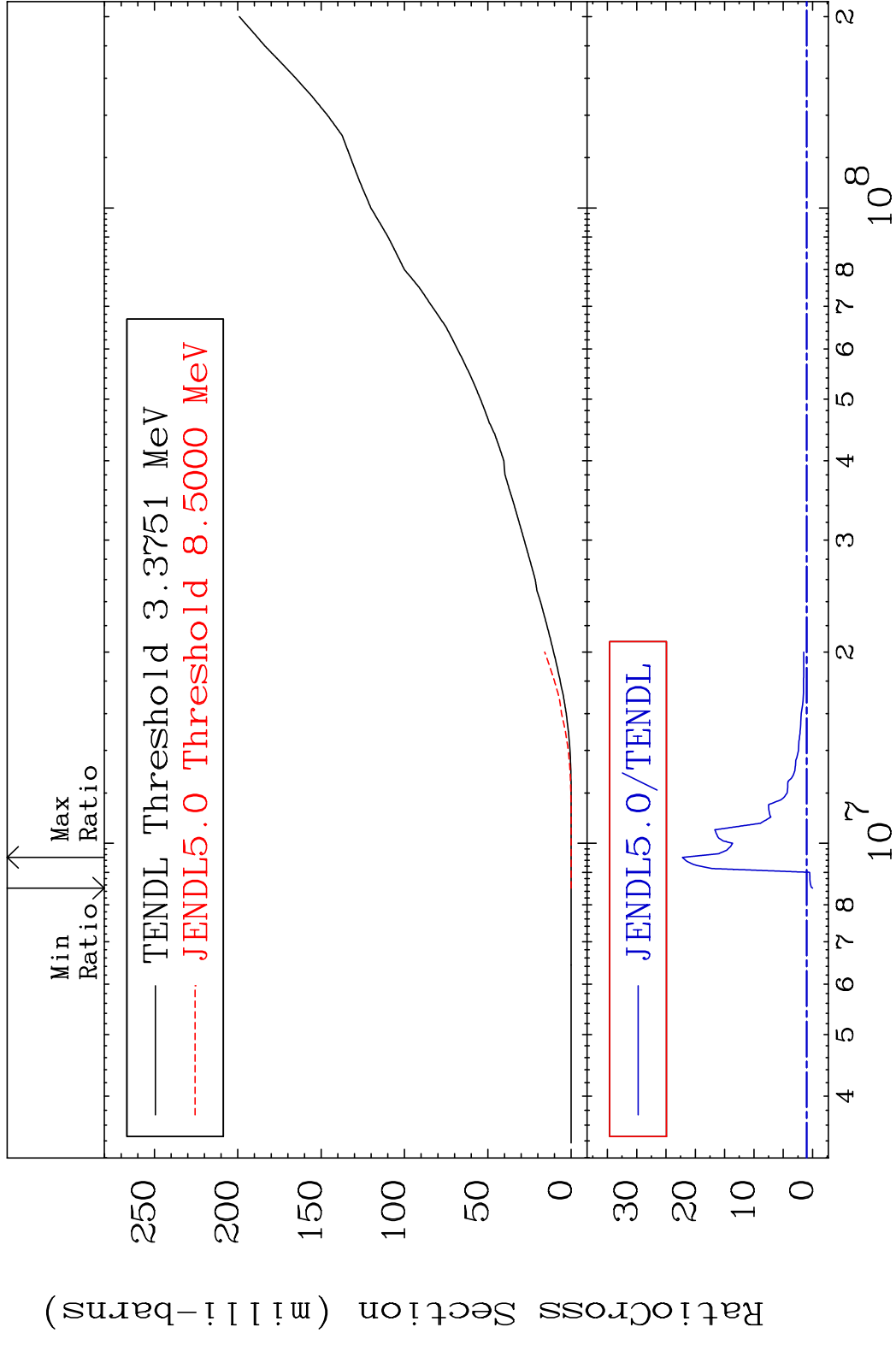


25

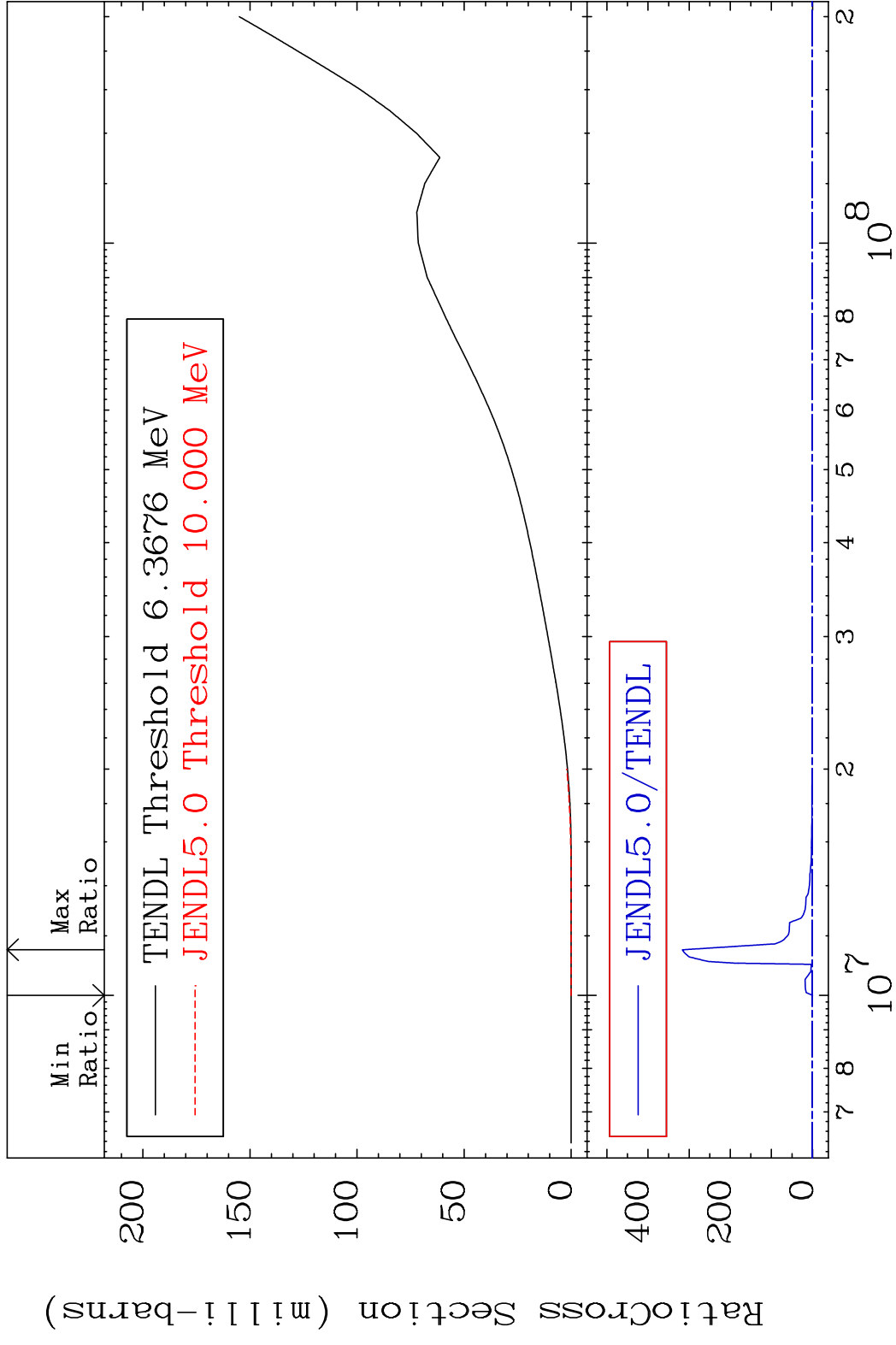
Incident Energy (eV)

70-Yb-170

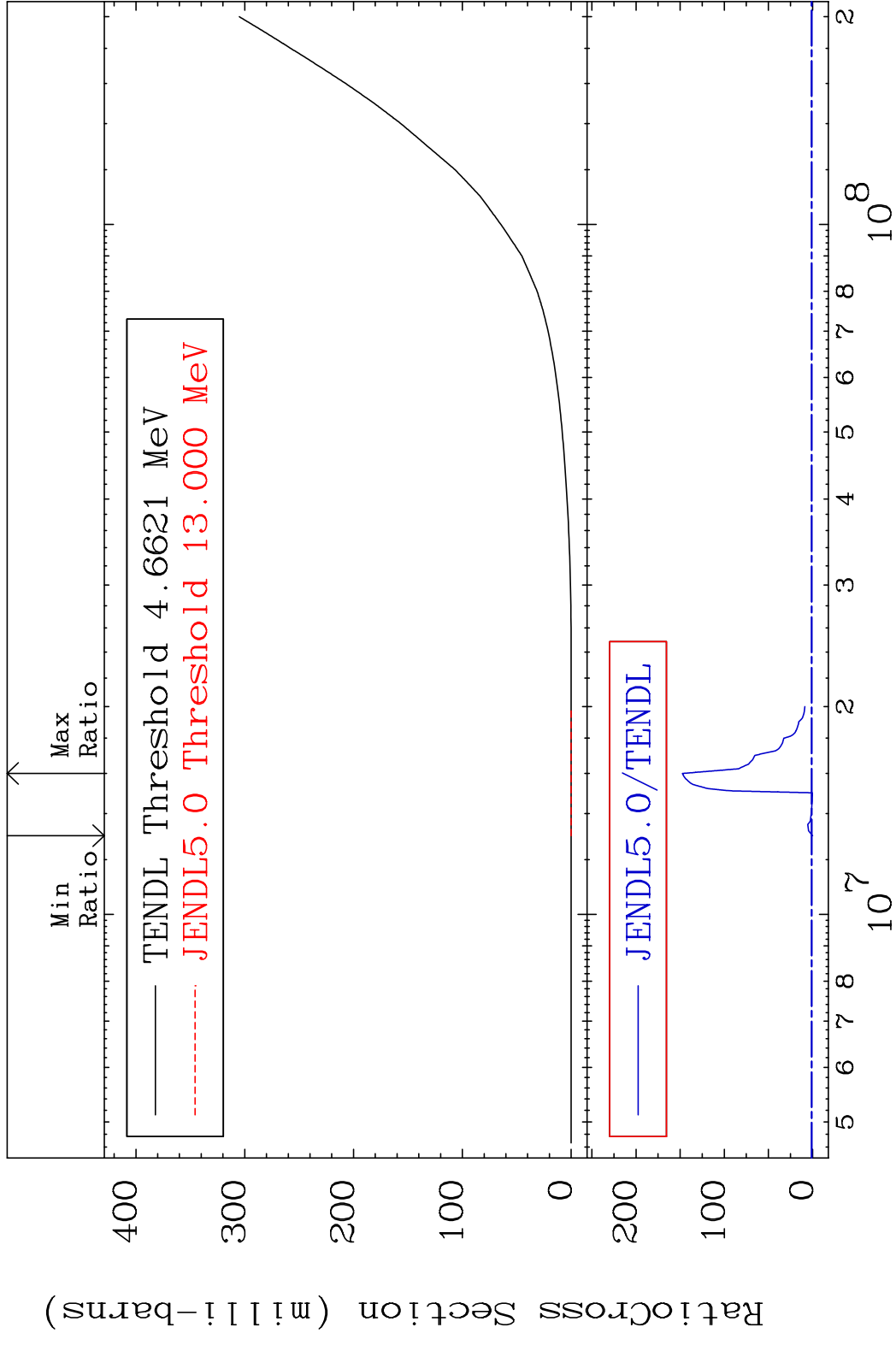




MAT 7031 Tritium Production 70-Yb-170  
 Cross Section -100.0 To 9999. %



MAT 7031 He-3 Production 70-Yb-170  
 Cross Section -100.0 To 9999. %

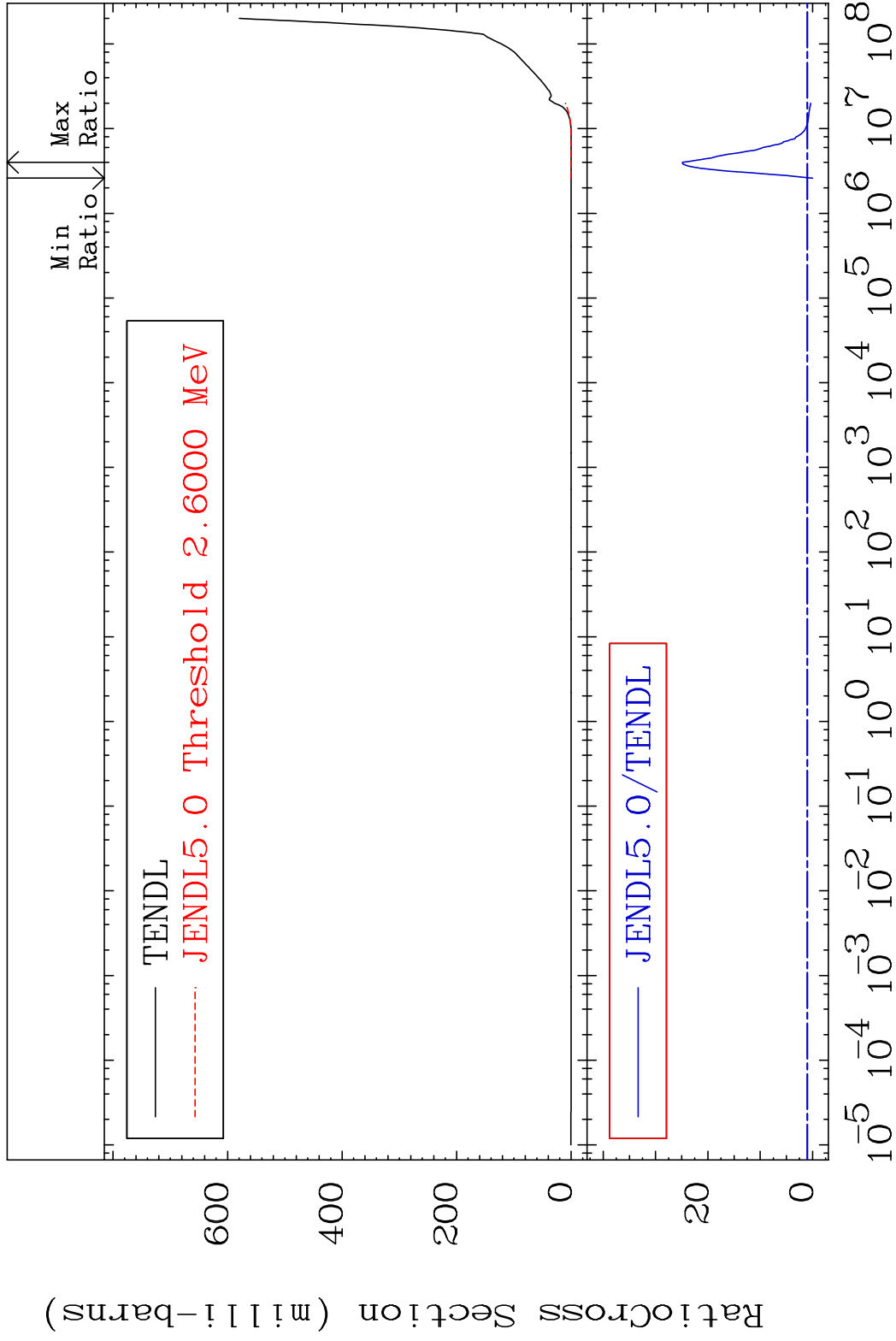


MAT 7031

He-4 Production

70-Yb-170

Cross Section -100.0 To 2388. %

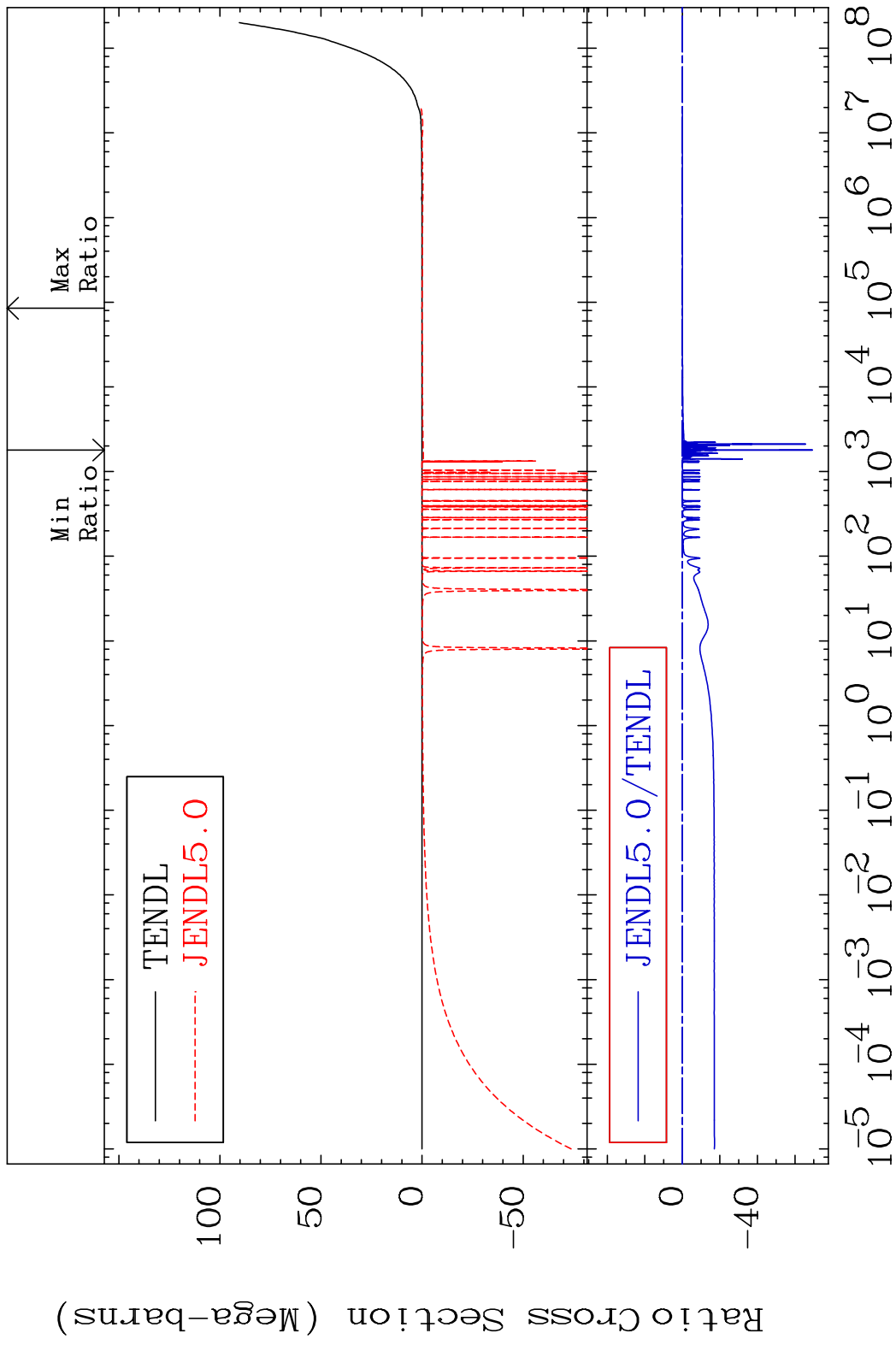


30

Incident Energy (eV)

70-Yb-170

MAT 7031 Kerma total (eV-barns) 70-Yb-170  
 Cross Section -9999. To 1413. %



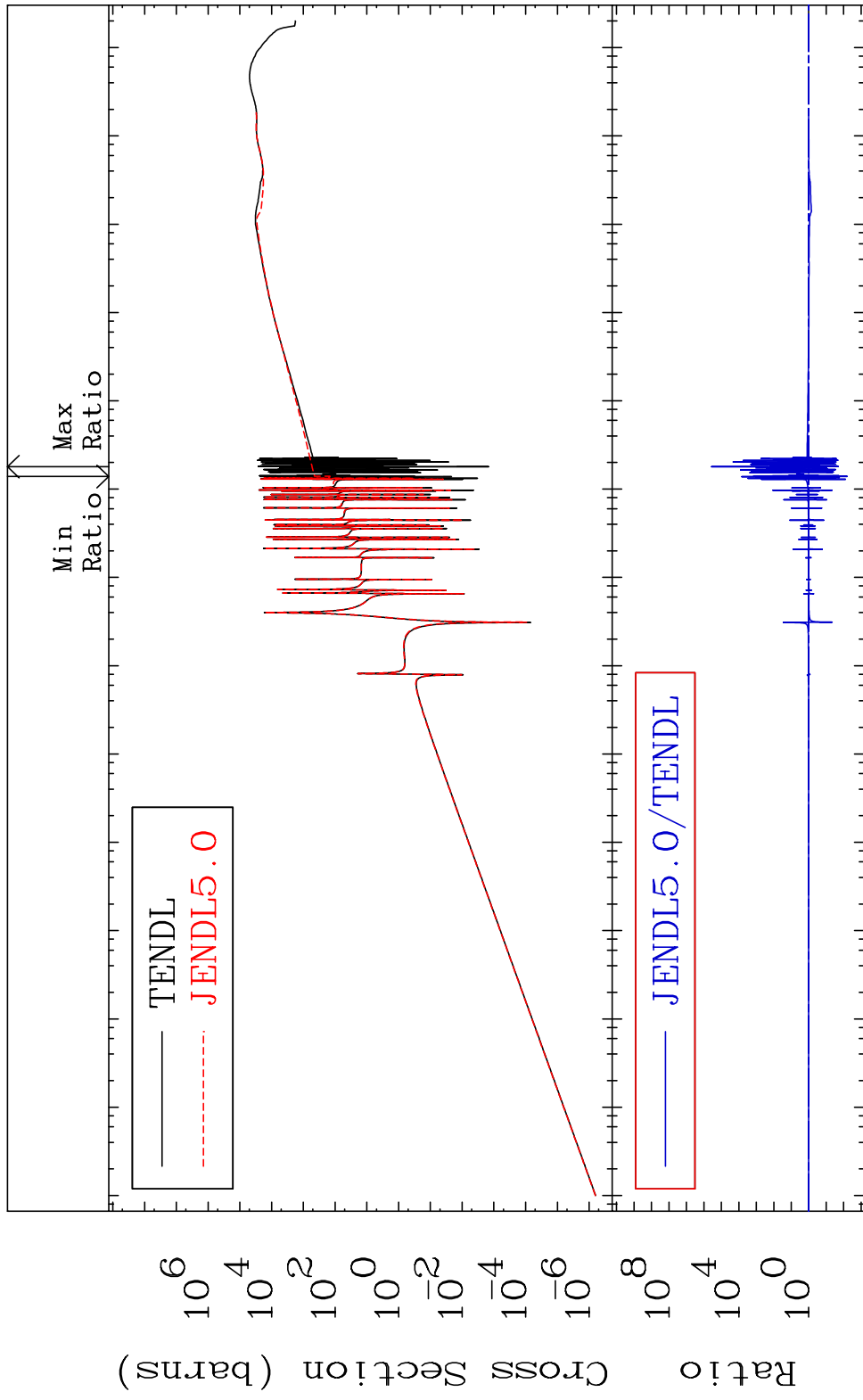


MAT 7031

Kerma elastic

70-Yb-170

Cross Section -99.38 To 9999. %

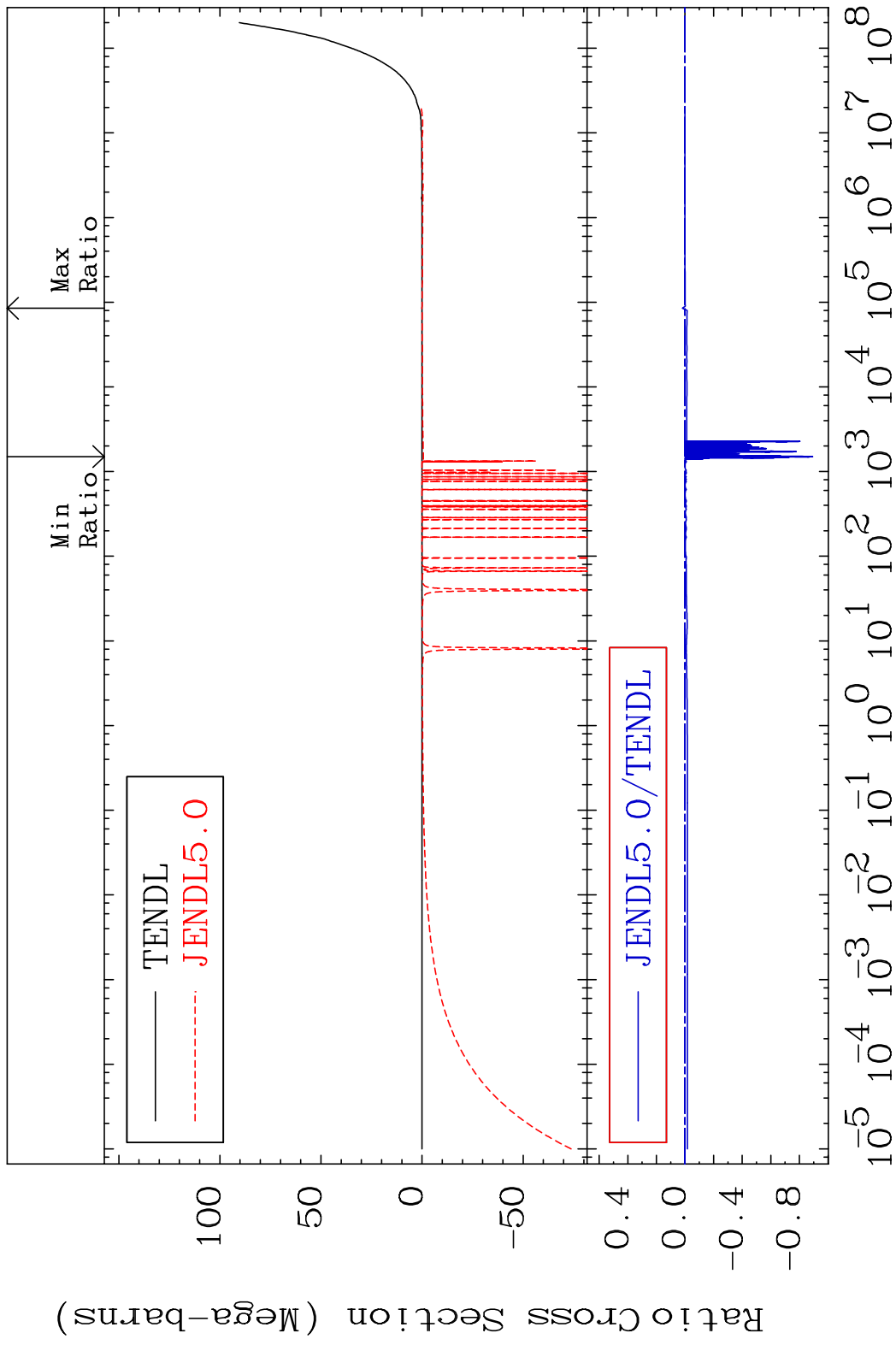


32

Incident Energy (eV)

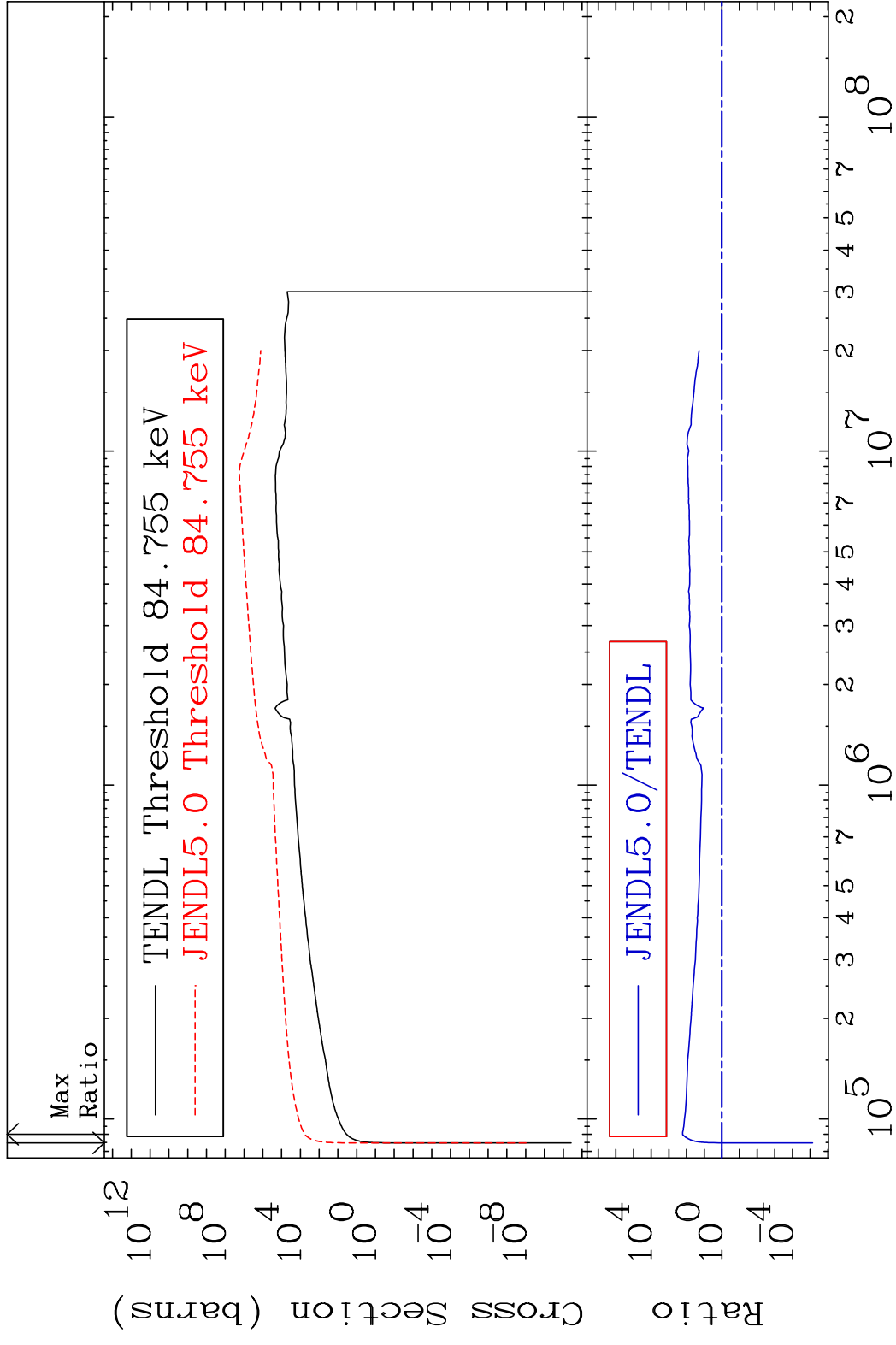
70-Yb-170

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

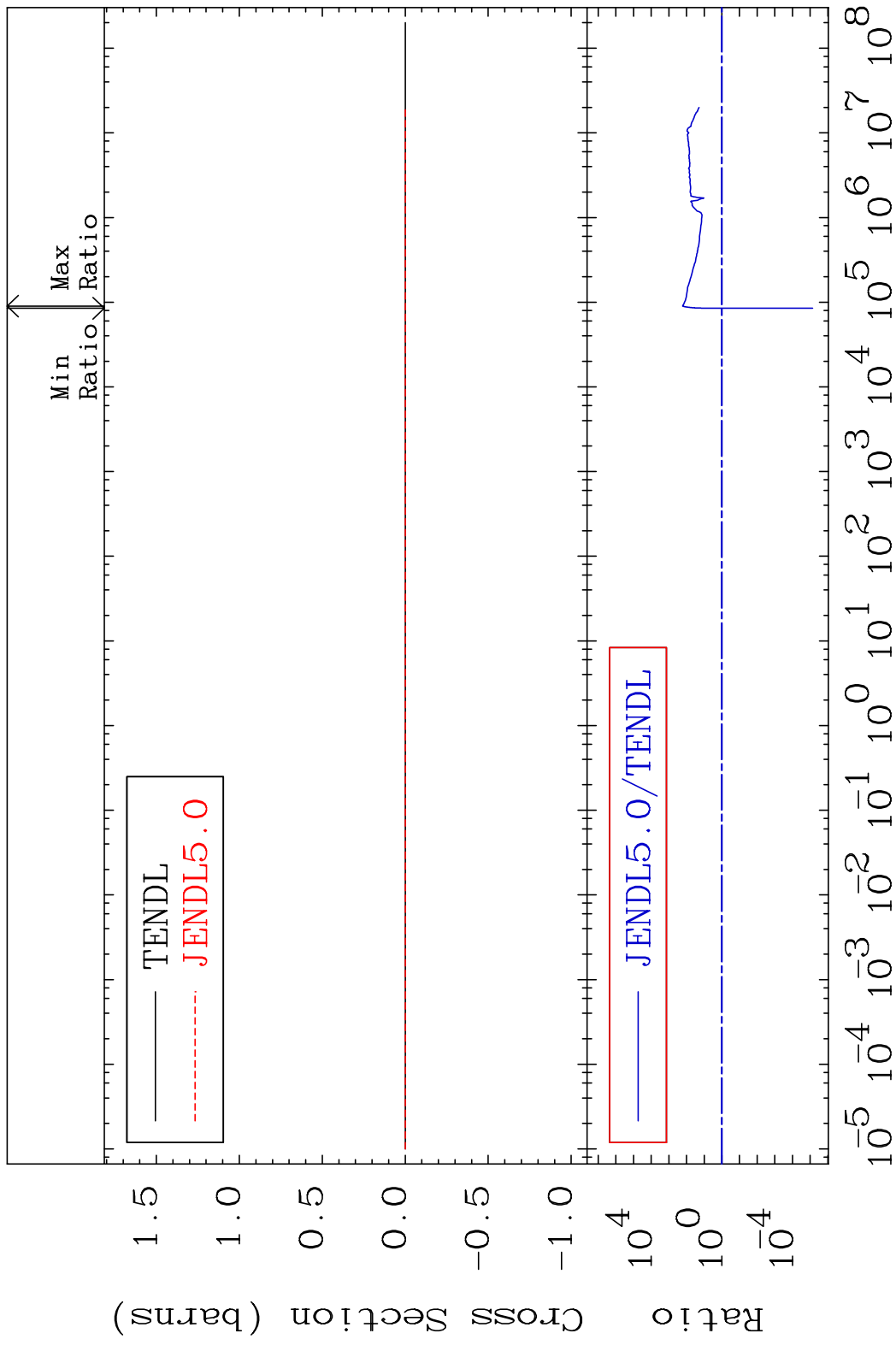


33 Incident Energy (eV) 70-Yb-170

MAT 7031 Kerma inelastic (mt51-91) 70-Yb-170  
 Cross Section -100.0 To 9999. %



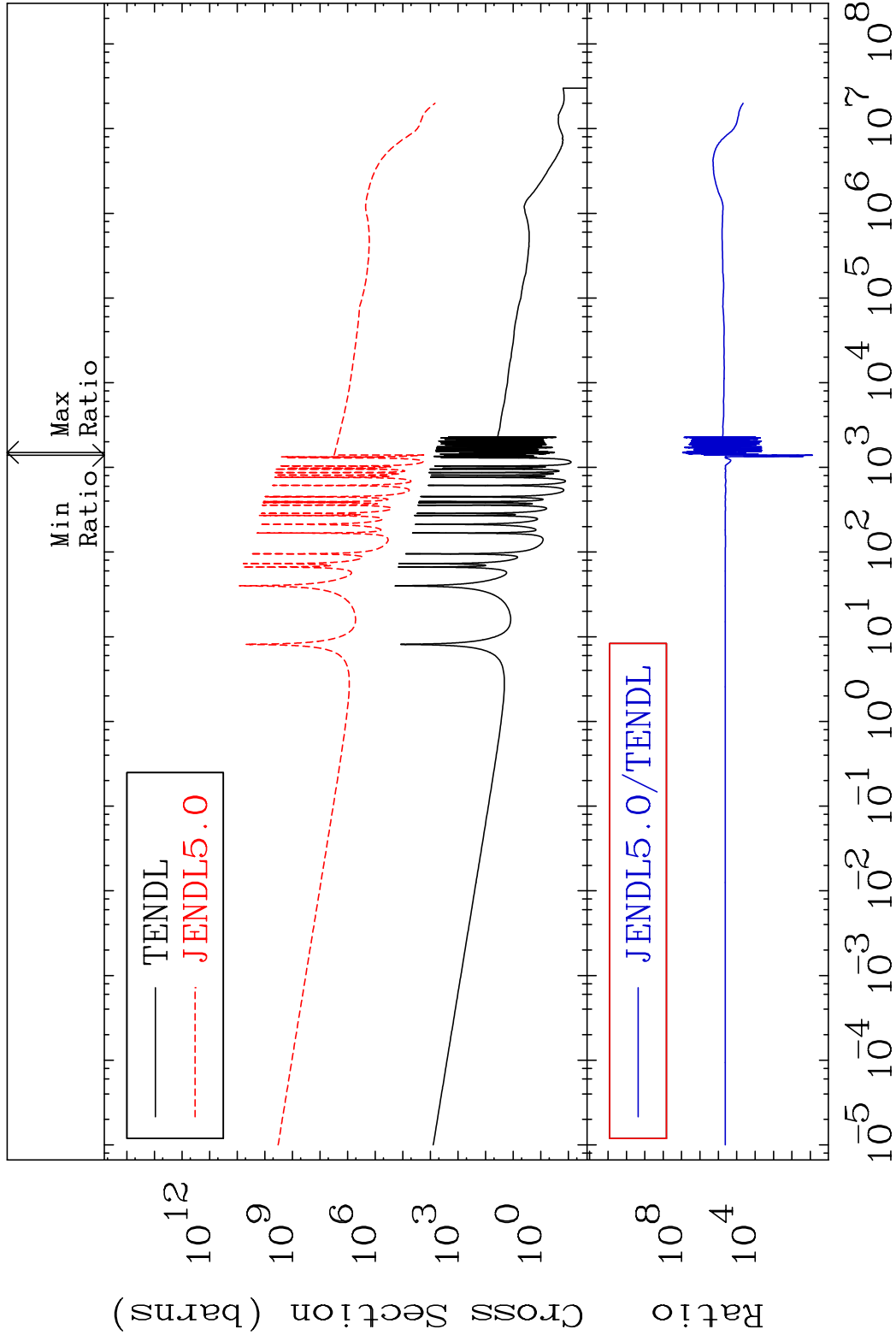
MAT 7031 Kerma fission (mt18 or mt19-20-21-38)70-Yb-170  
 Cross Section -100.0 To 9999. %



MAT 7031

Kerma capture (mt102) 70-Yb-170

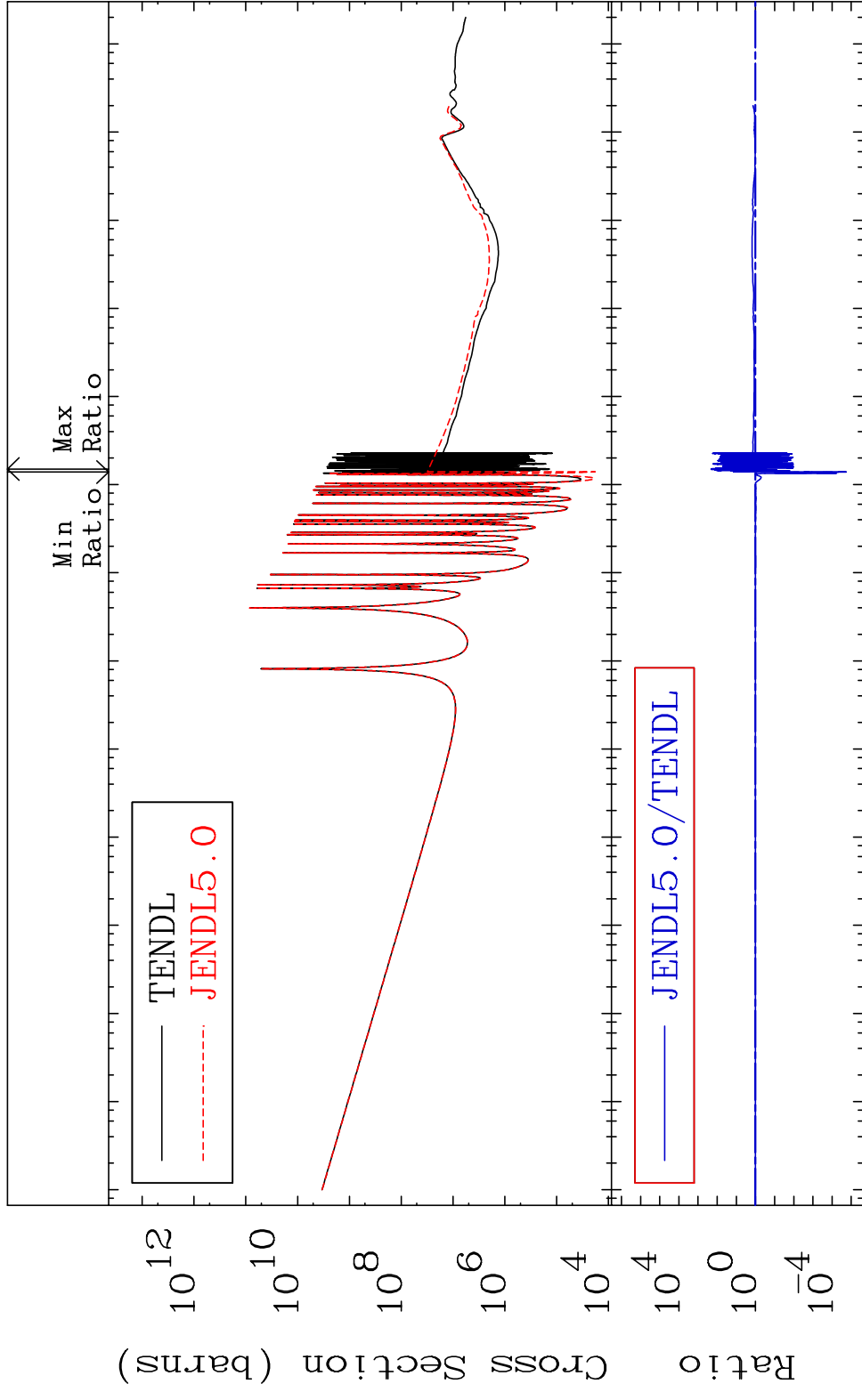
Cross Section 651.0 To 9999. %



36

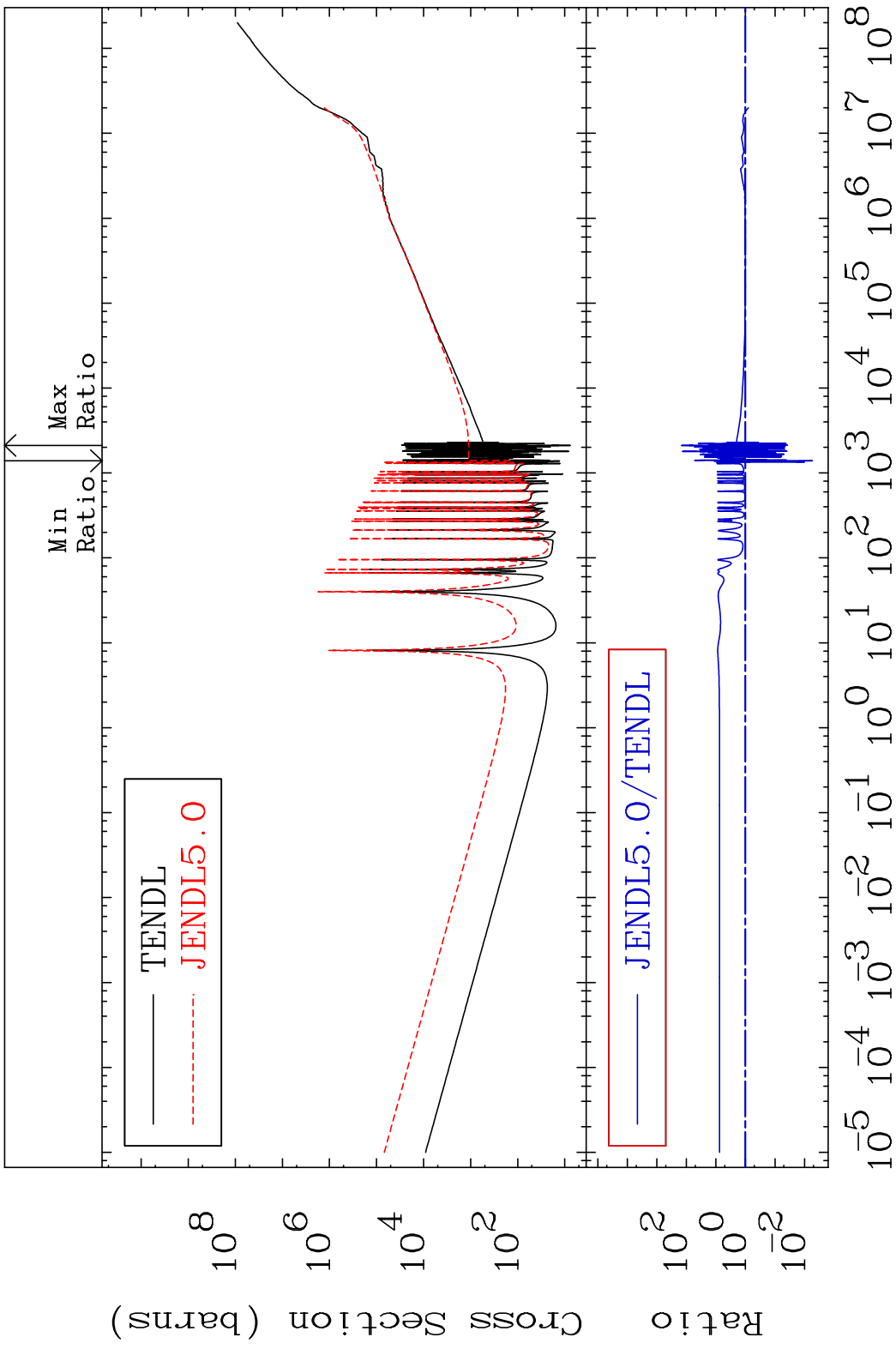
Incident Energy (eV) 70-Yb-170

MAT 7031 Total photon (eV-barns) 70-Yb-170  
 Cross Section -100.0 To 9999. %

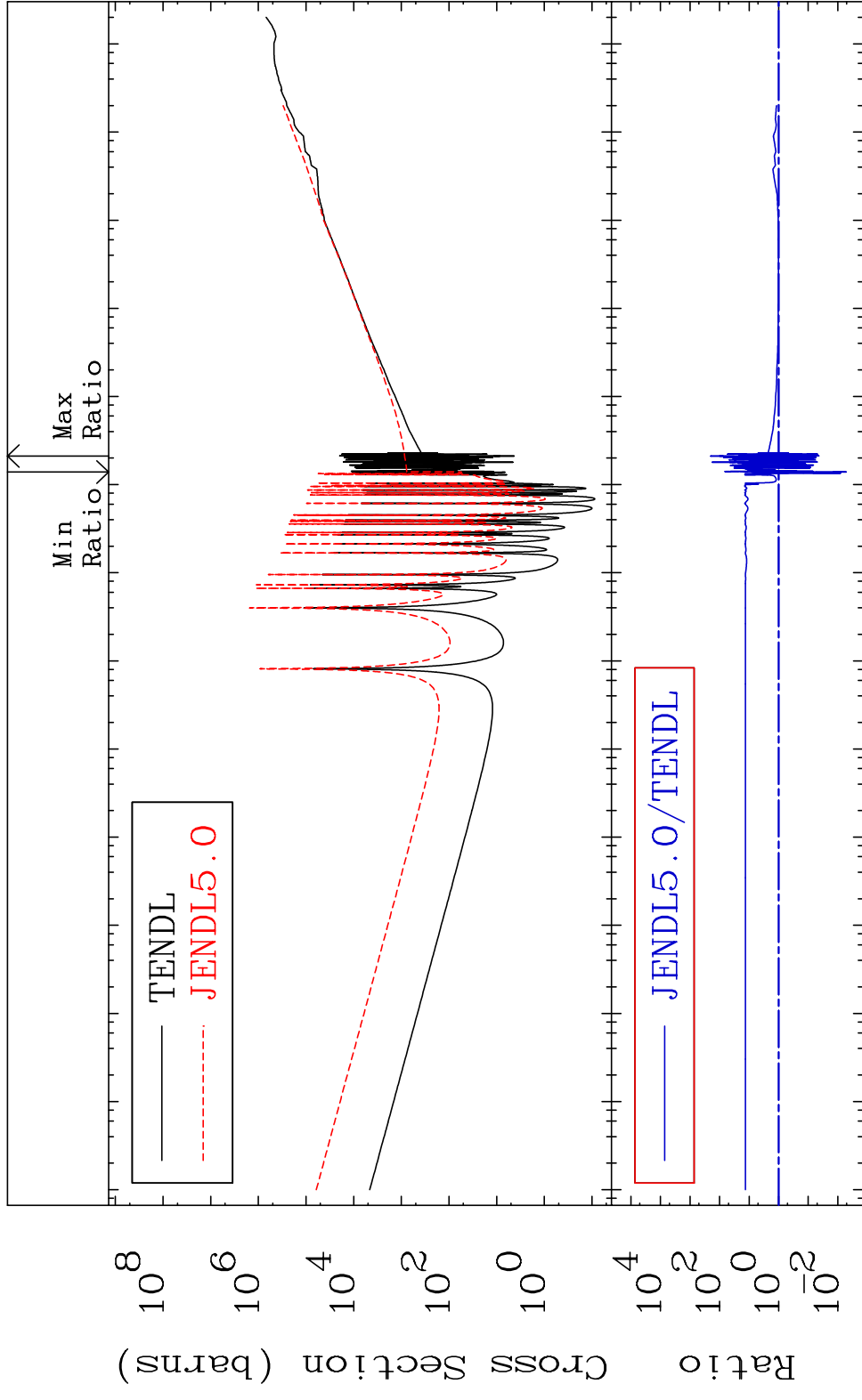


37 Incident Energy (eV) 70-Yb-170

MAT 7031 Total kinematic kerma (high limit) 70-Yb-170  
 Cross Section -99.46 To 9999. %



MAT 7031      Dpa total (eV-barns)      70-Yb-170  
 Cross Section      -99.49 To 9999. %



39      Incident Energy (eV)      70-Yb-170

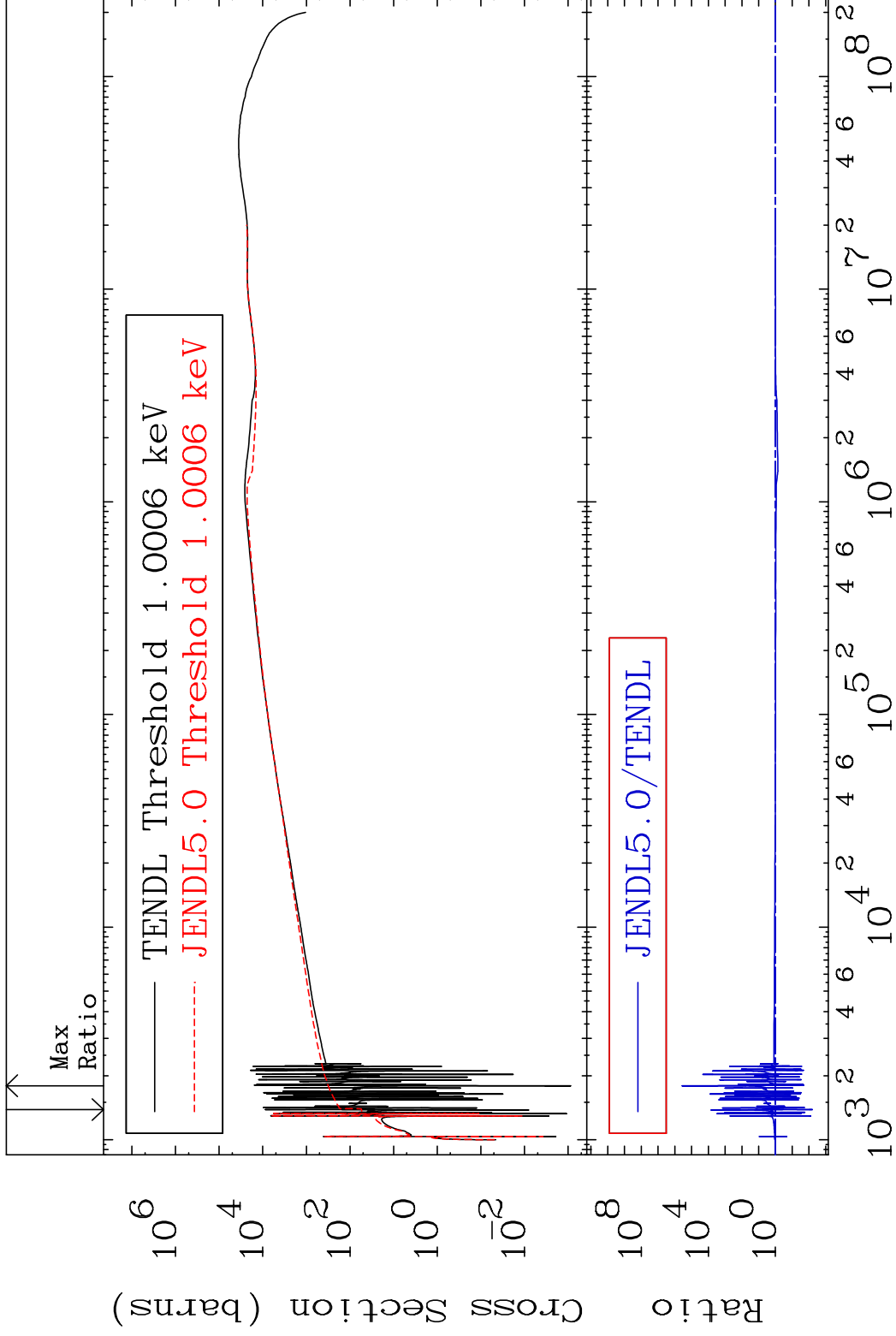


MAT 7031

Dpa elastic (mt2)

70-Yb-170

Cross Section -99.38 To 9999. %

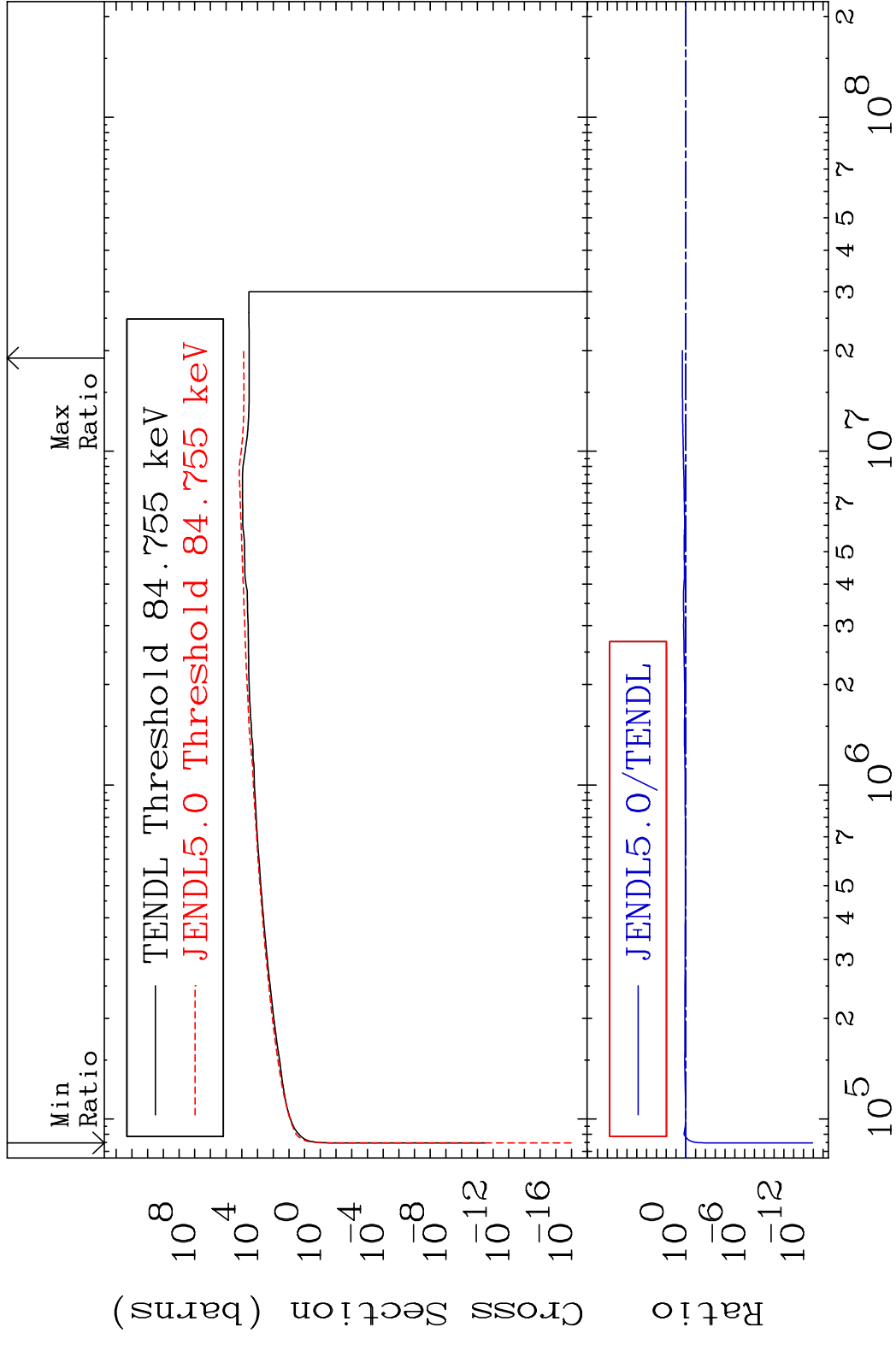


40

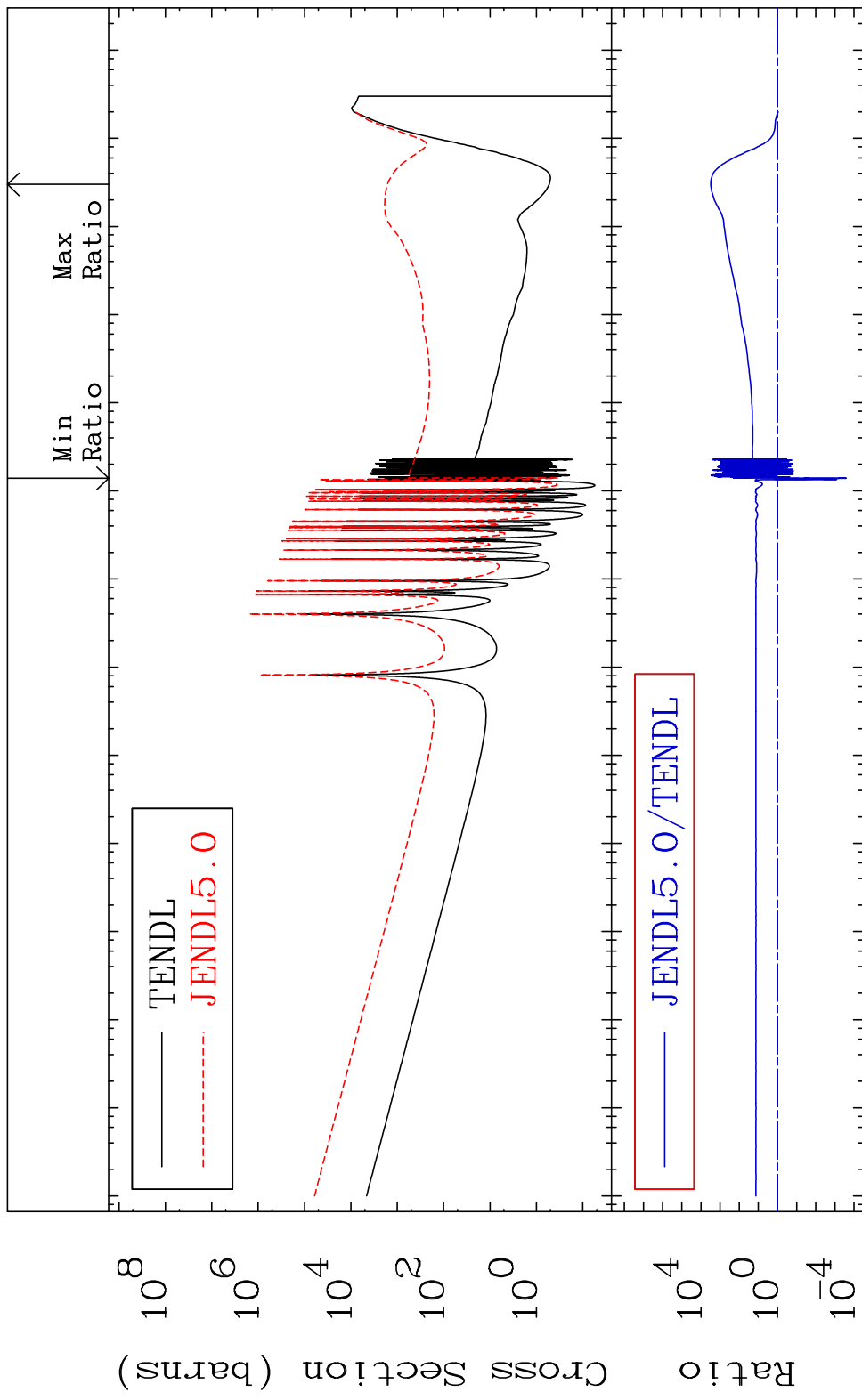
Incident Energy (eV)

70-Yb-170

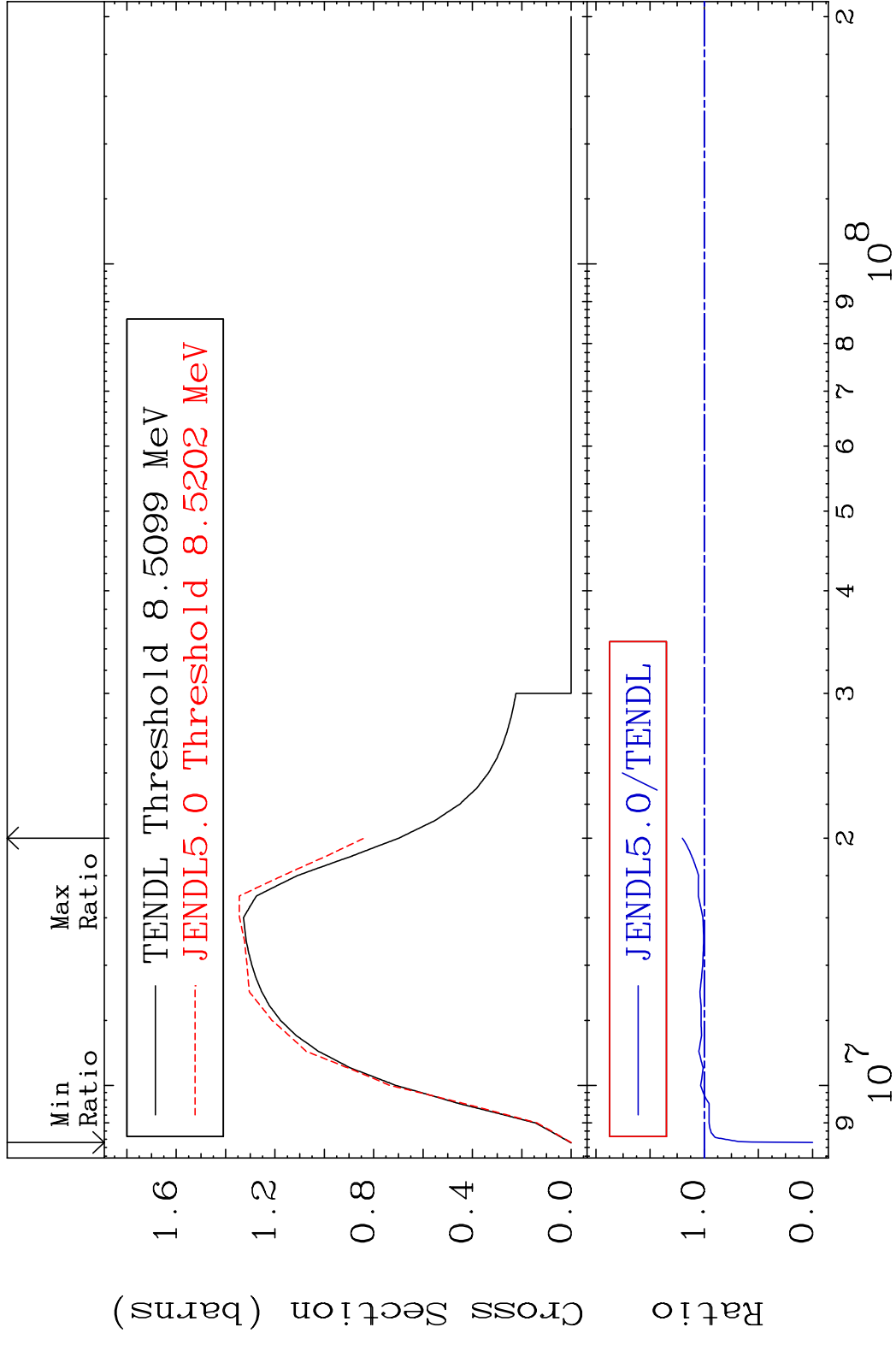
MAT 7031 Dpa inelastic (mt51-91) 70-Yb-170  
 Cross Section -100.0 To 123.4 %



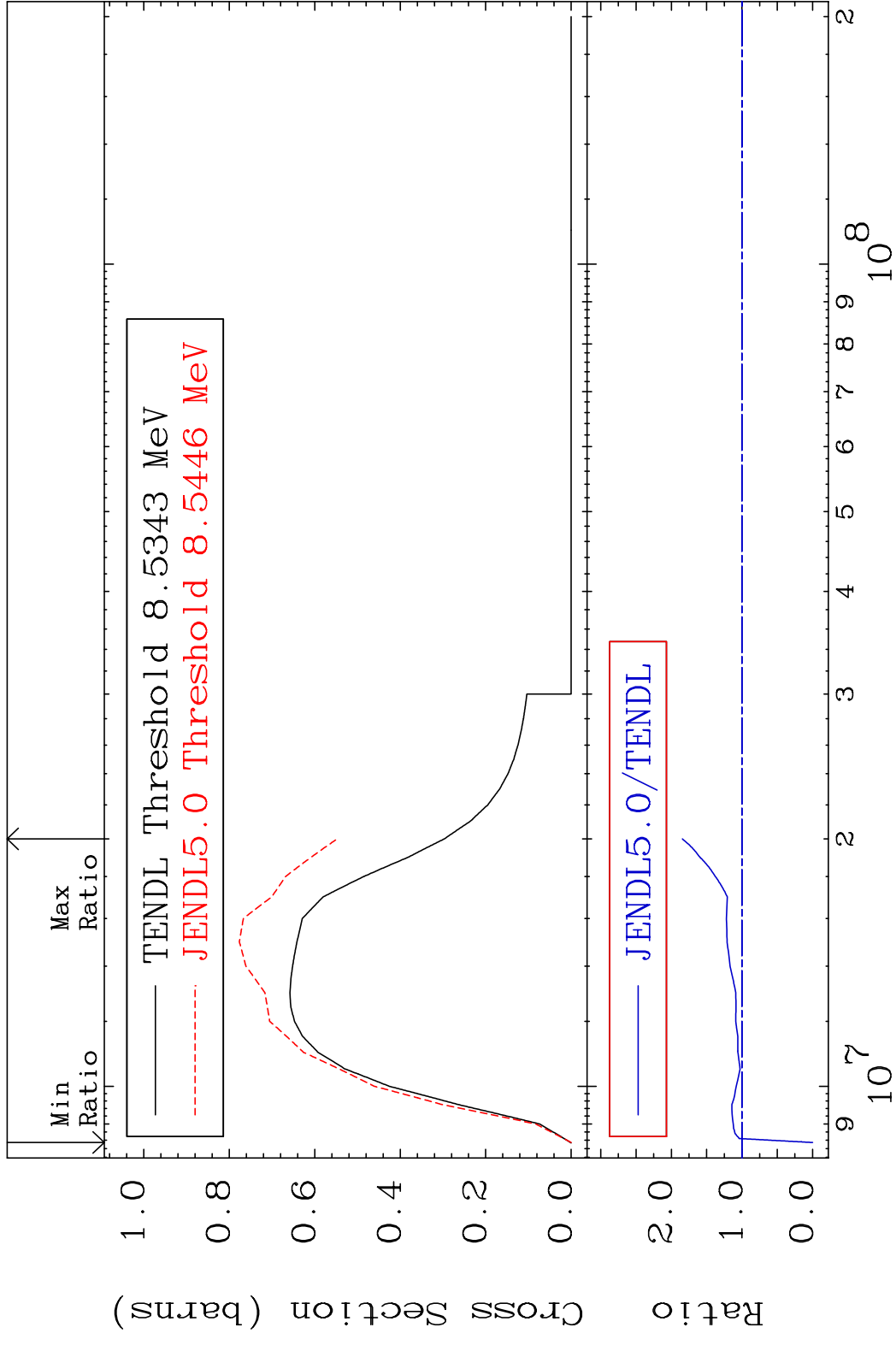
MAT 7031 Dpa disappearance (mt102 -120) 70-Yb-170  
 Cross Section -99.97 To 9999. %



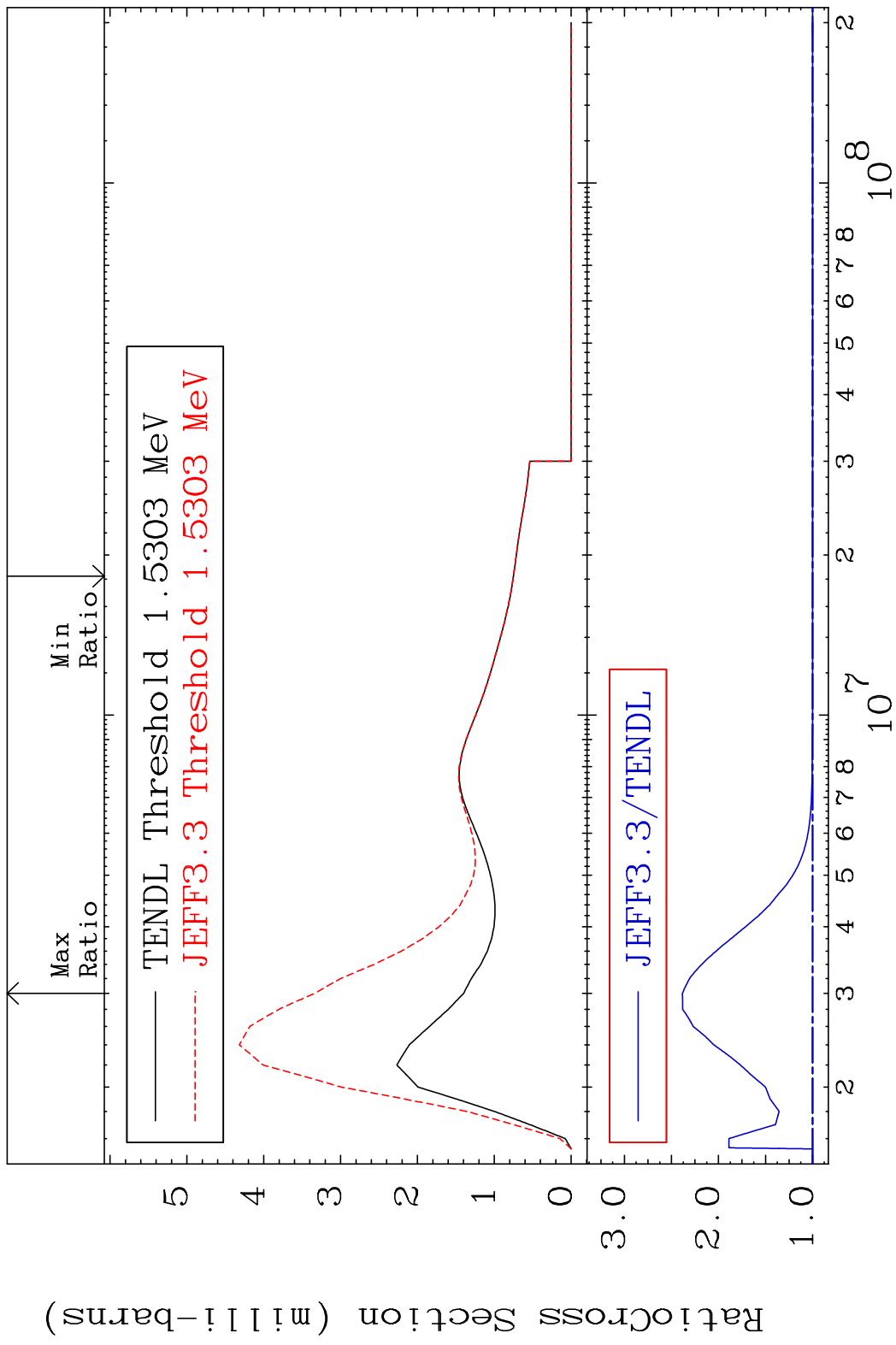
MAT 7031 (n,2n):70-Yb-169g 70-Yb-170  
 Radionuclide Production Cross Section Ratio 20.19 %



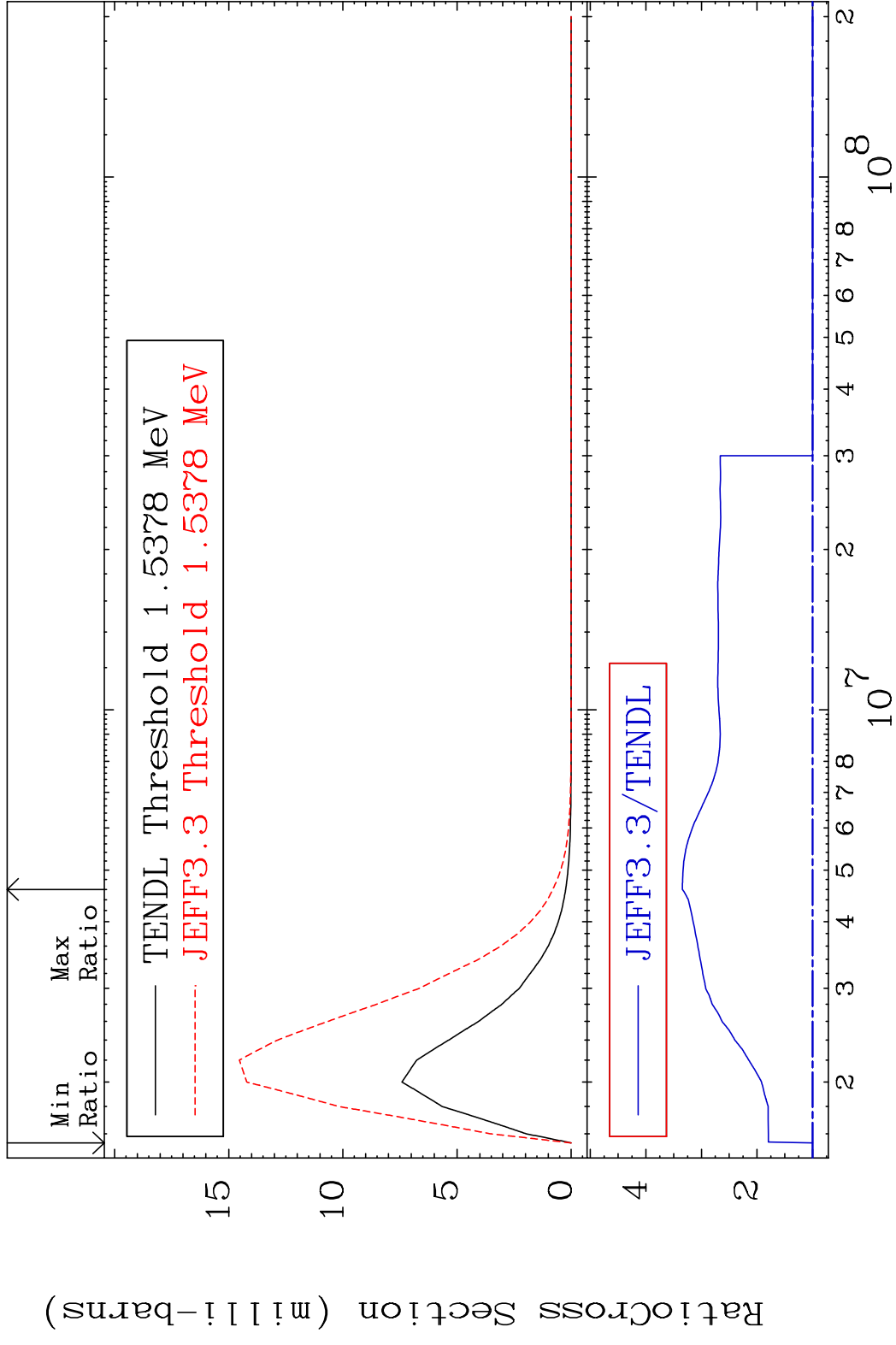
MAT 7031 (n,2n):70-Yb-169m1 70-Yb-170  
 Radionuclide Production Cross Section Ratio 84.43 %



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

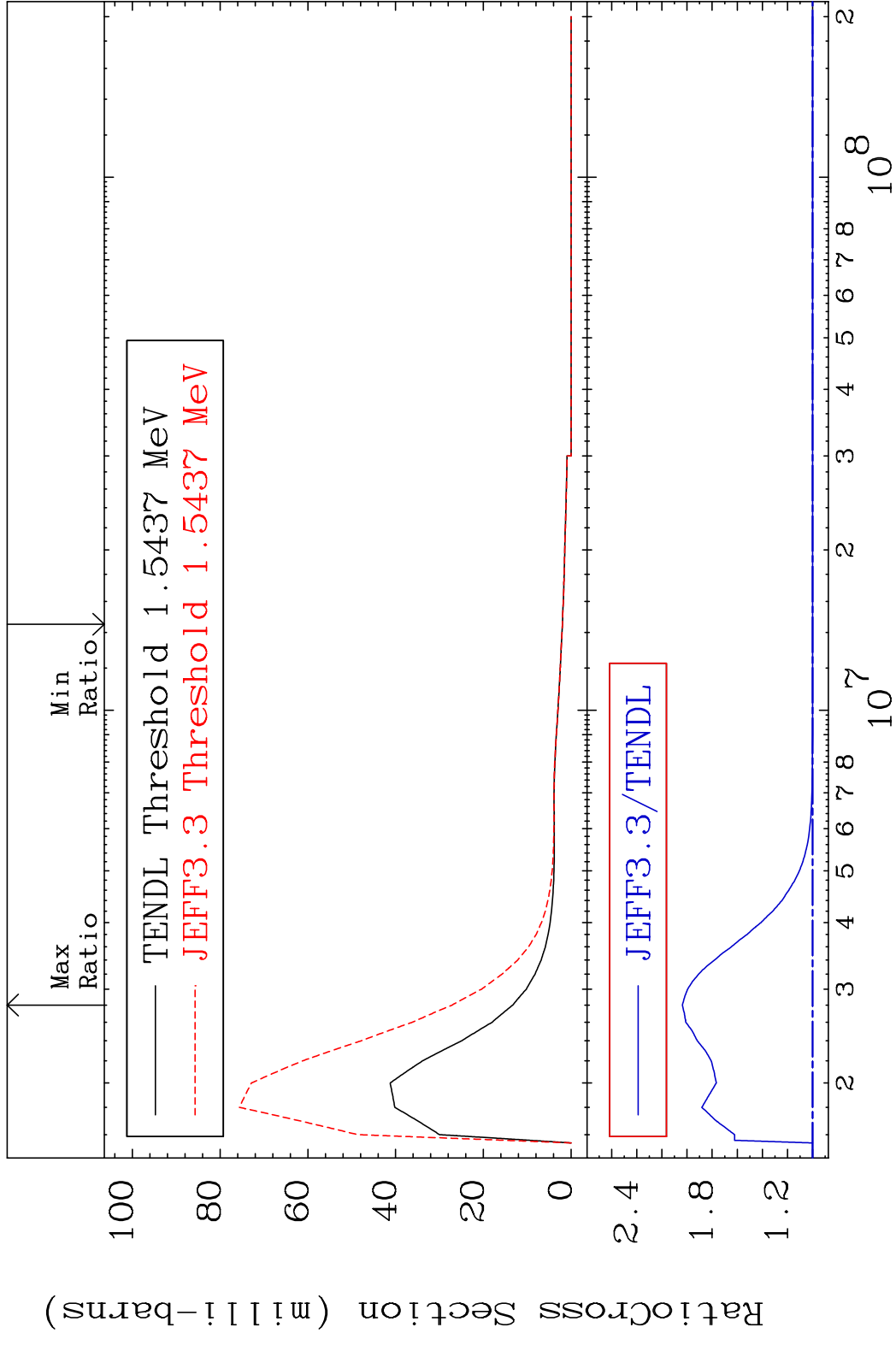


MAT 7031      MT= 76 (n,n') Level      70-Yb-170  
 Cross Section    0.000    To 234.4 %



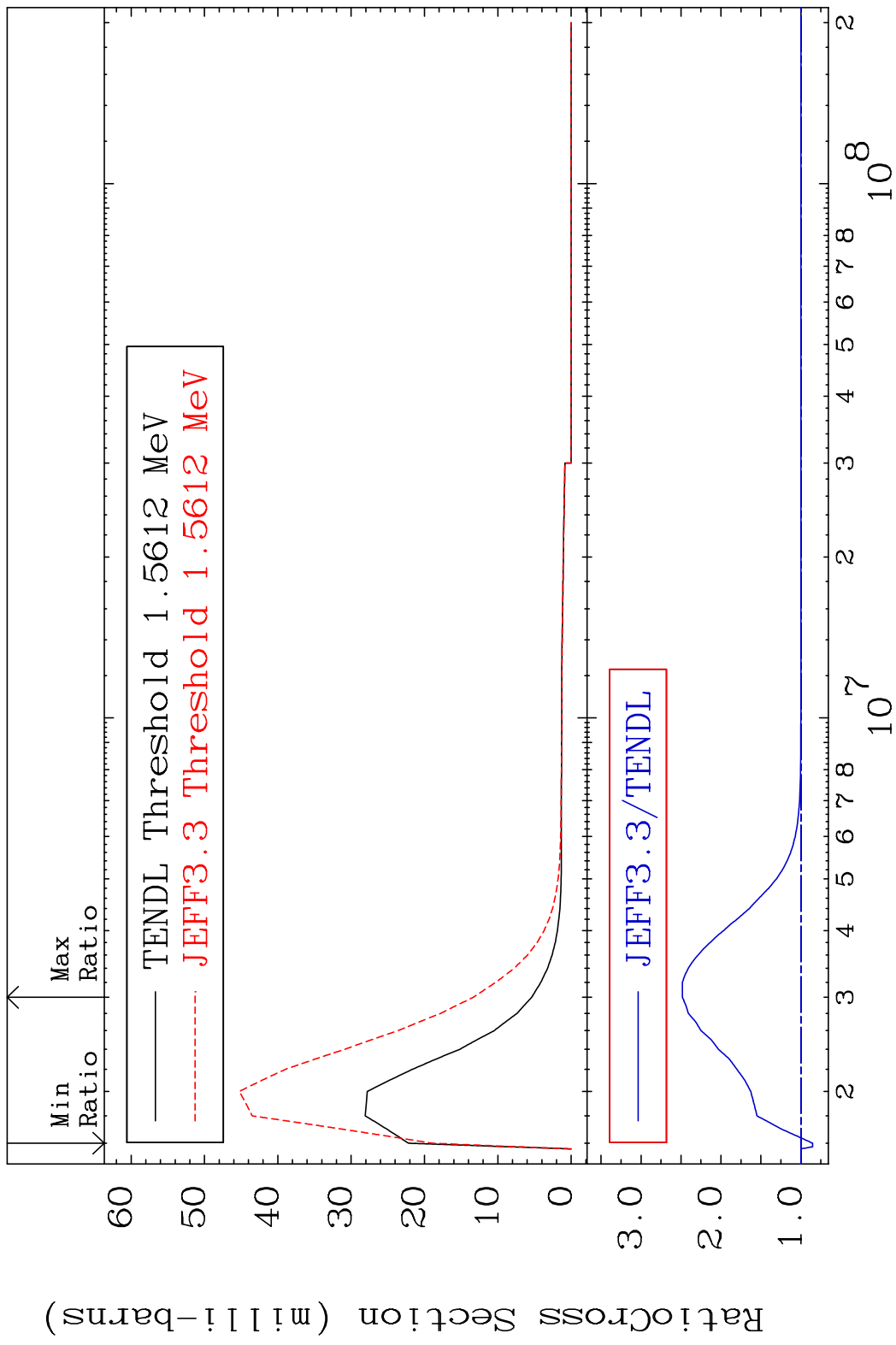
46      Incident Energy (eV)      70-Yb-170

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

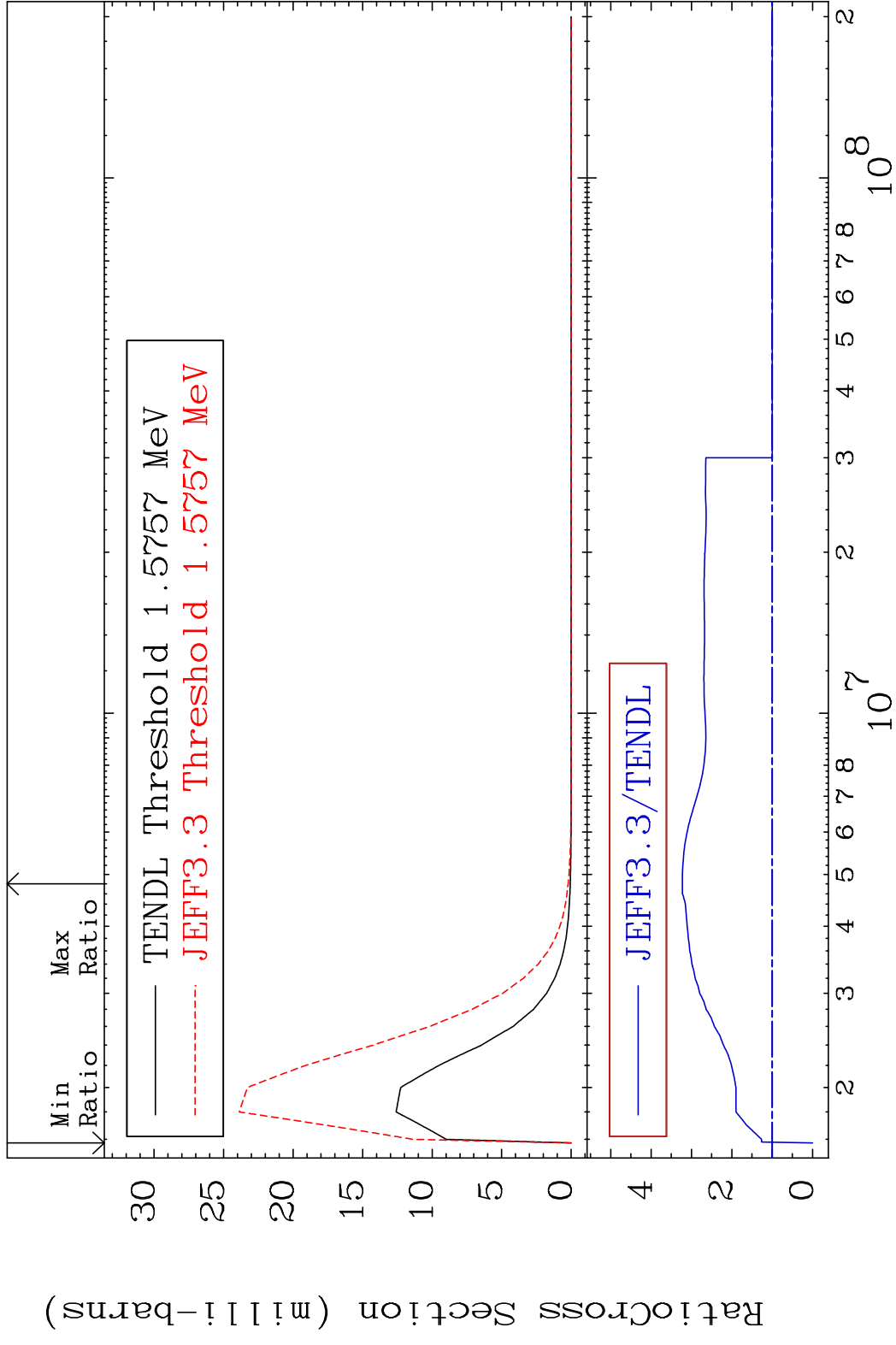




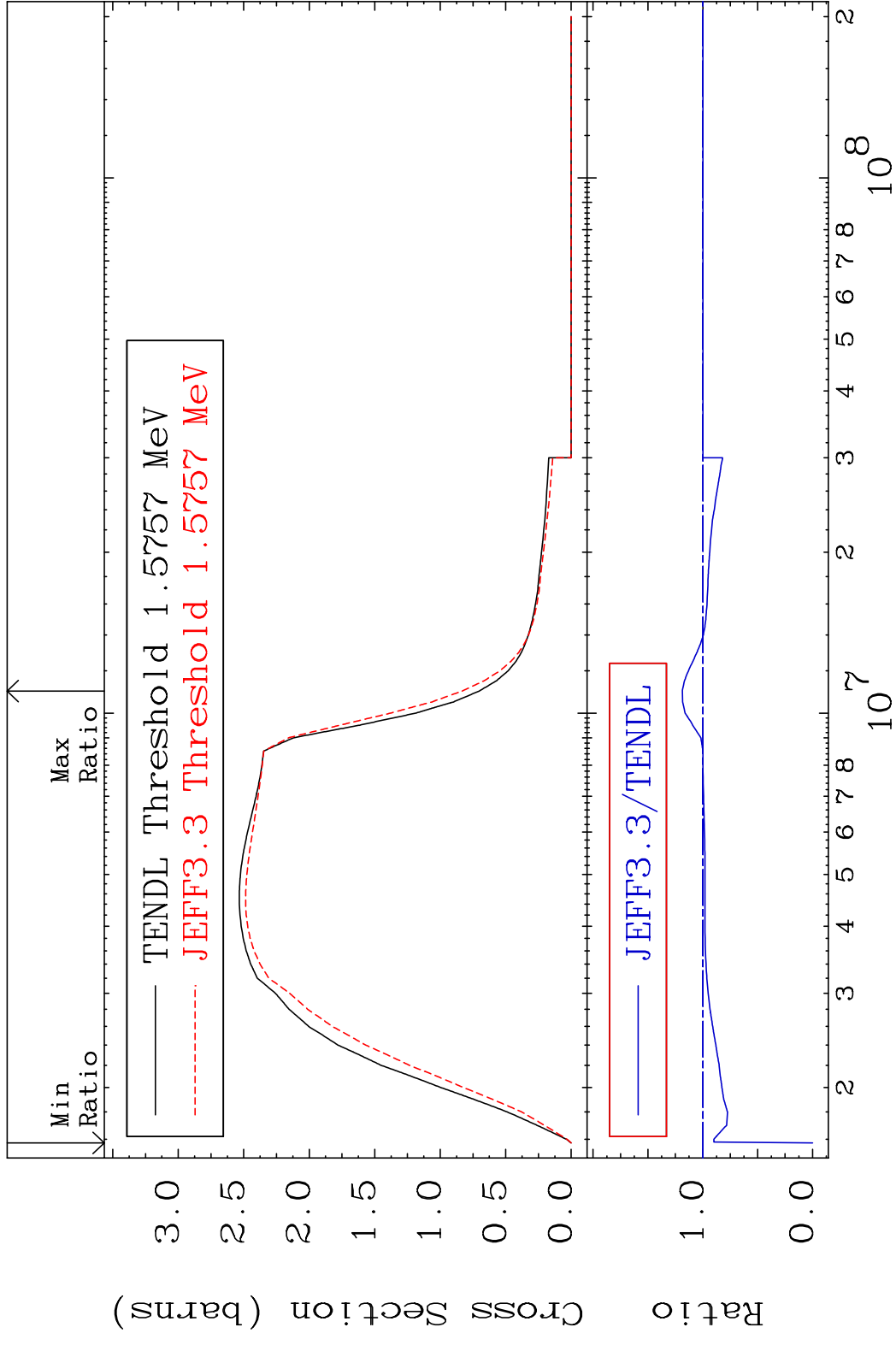
MAT 7031 MT= 78 (n,n') Level 70-Yb-170  
 Cross Section -14.59 To 148.3 %



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 %

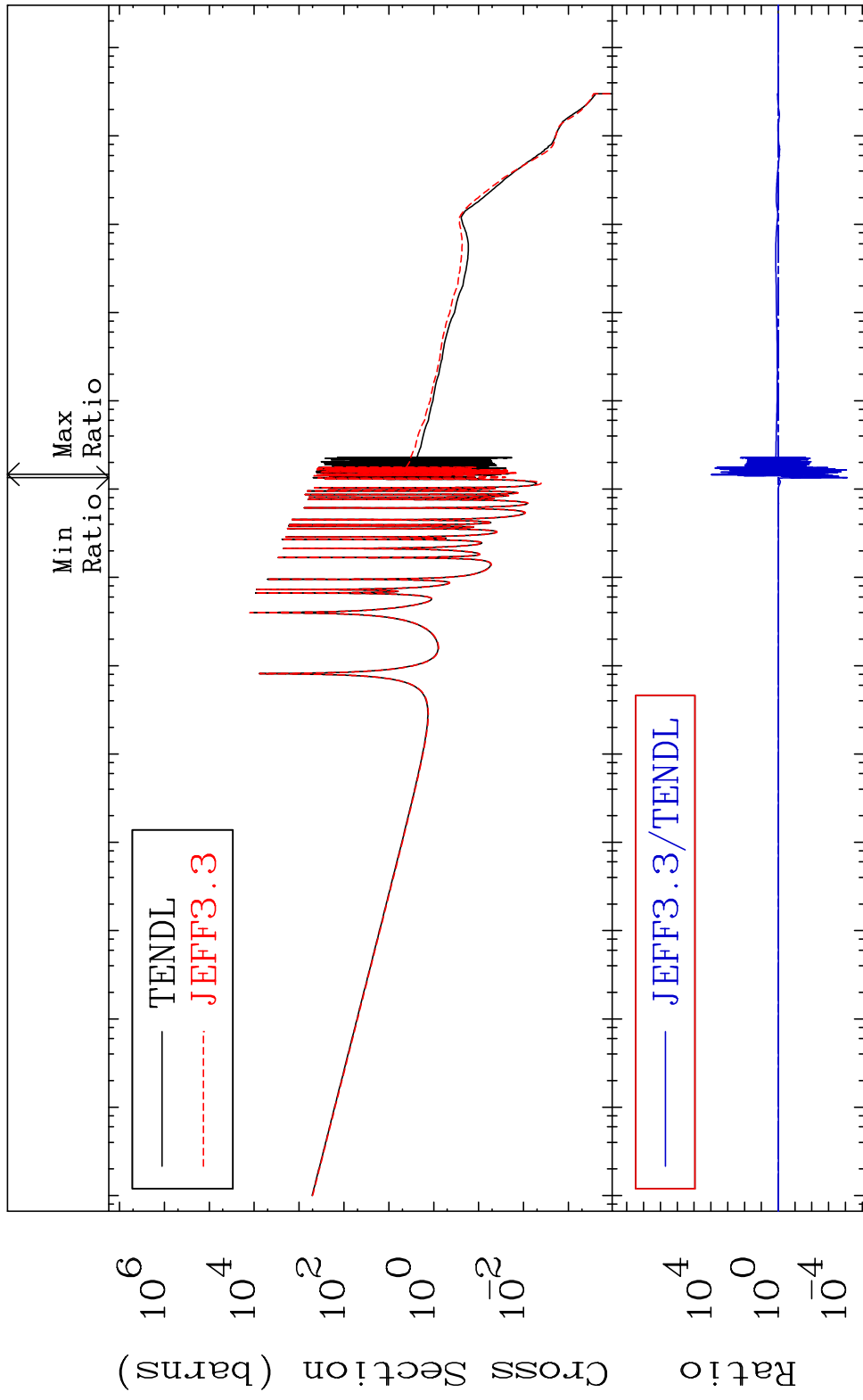


MAT 7031

70-Yb-170

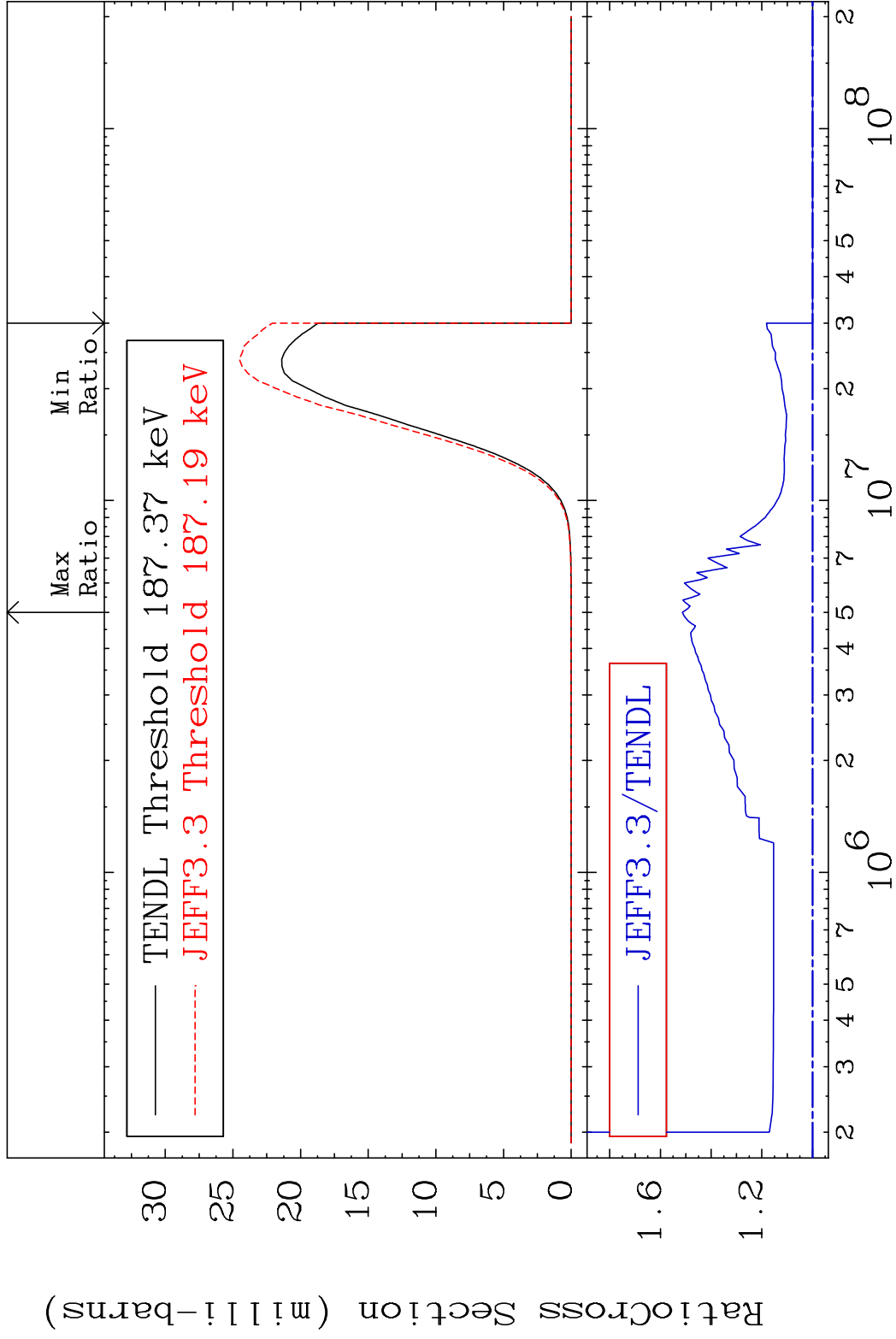
(n,  $\gamma$ )

Cross Section -99.99 To 9999. %

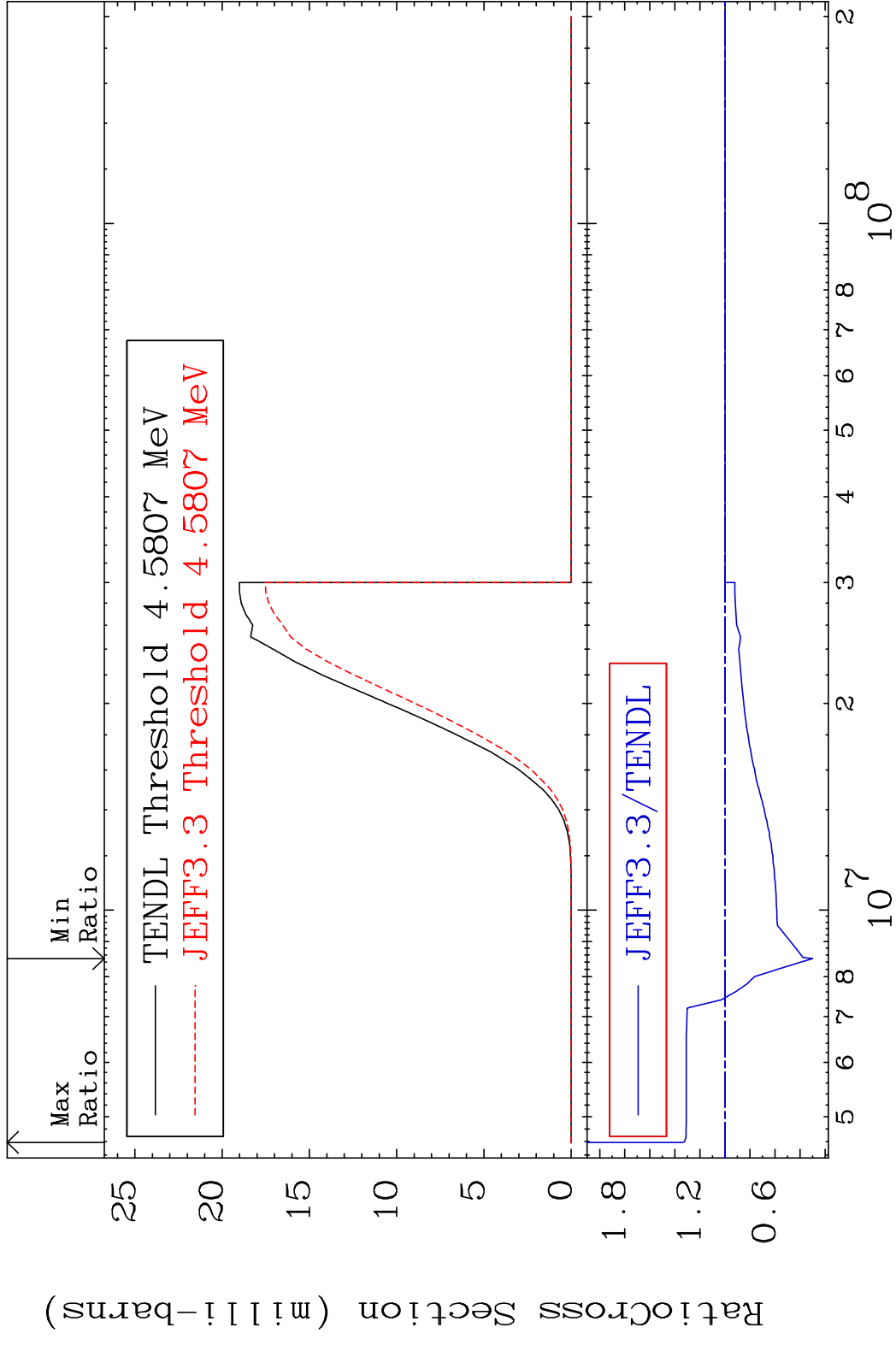


MAT 7031

(n, p)  
Cross Section 0.000 To 51.36 %  
70-Yb-170



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

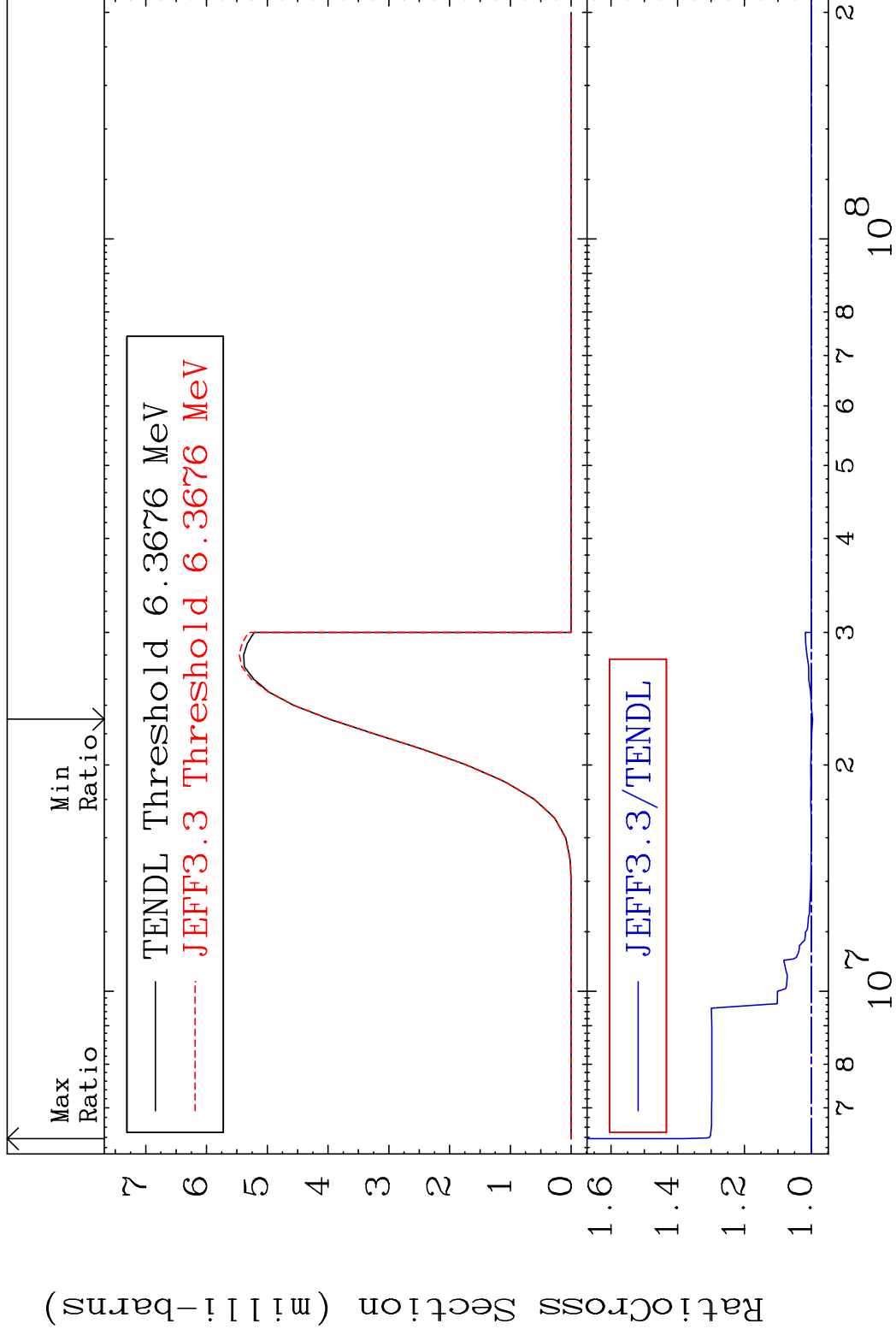


MAT 7031

(n, t)

70-Yb-170

Cross Section -0.397 To 38.60 %

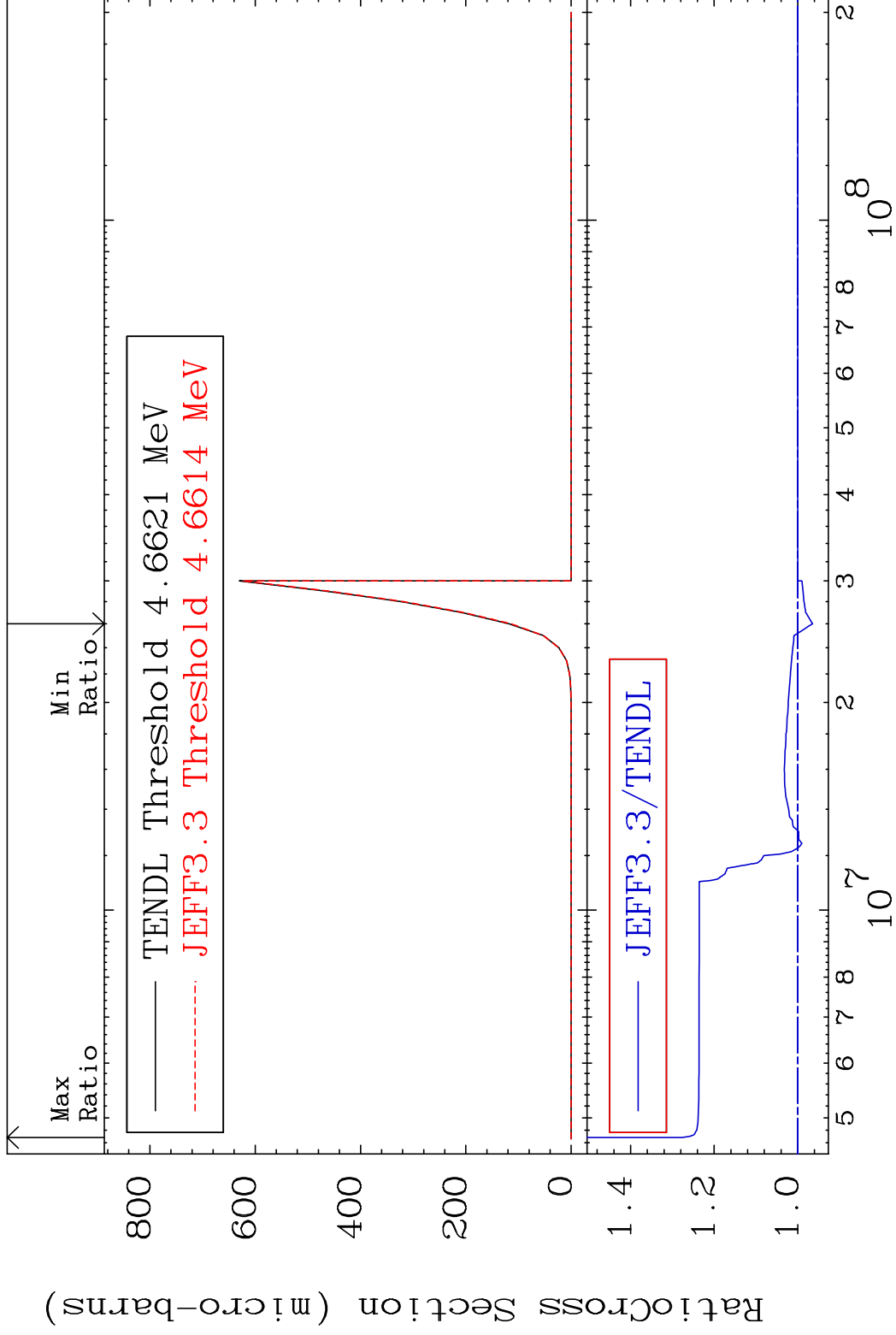


MAT 7031

(n, He-3)

70-Yb-170

Cross Section -3.533 To 27.62 %



55

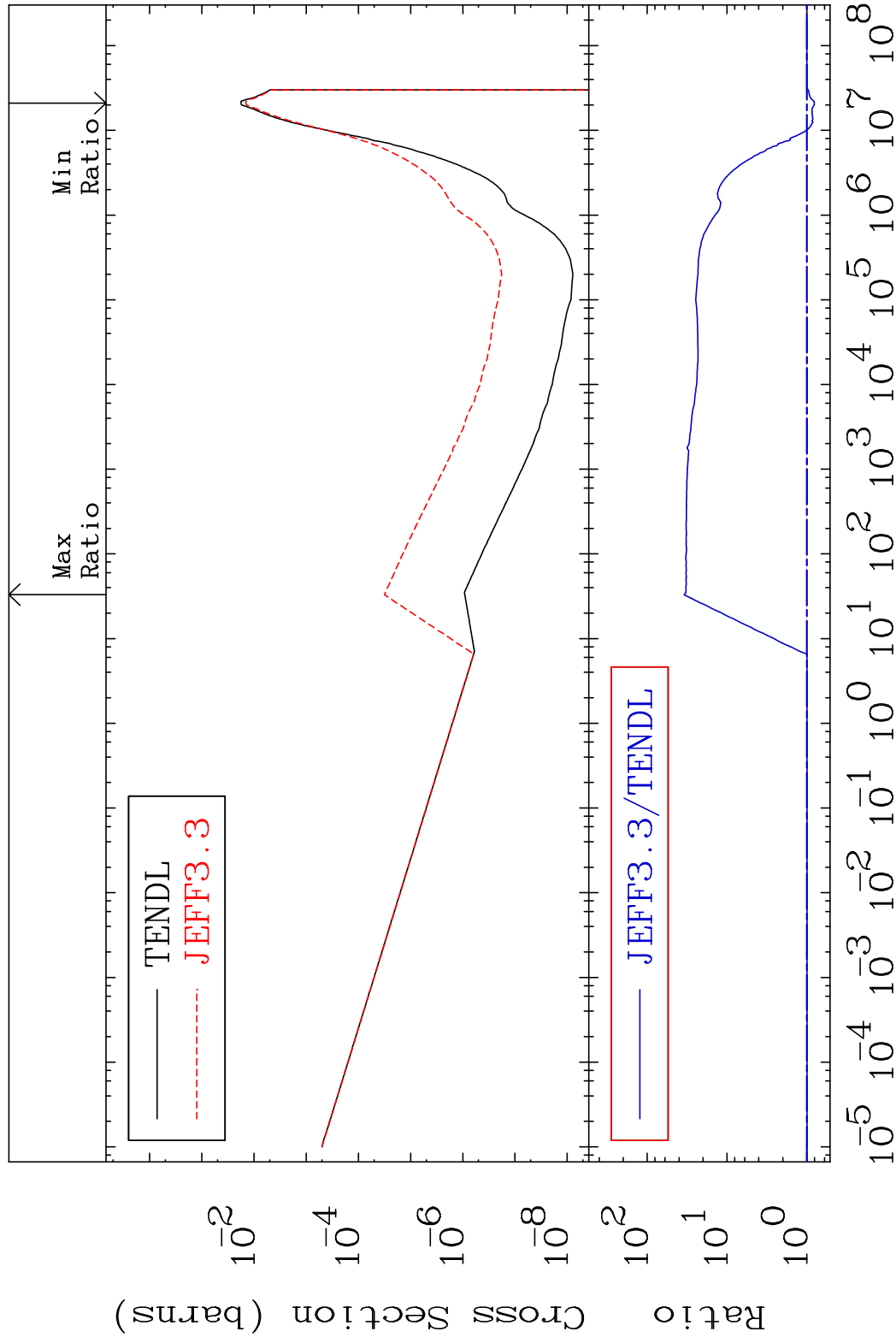
Incident Energy (eV)

70-Yb-170



MAT 7031

(n,  $\alpha$ )  
Cross Section -19.44 To 3355. %  
70-Yb-170



56

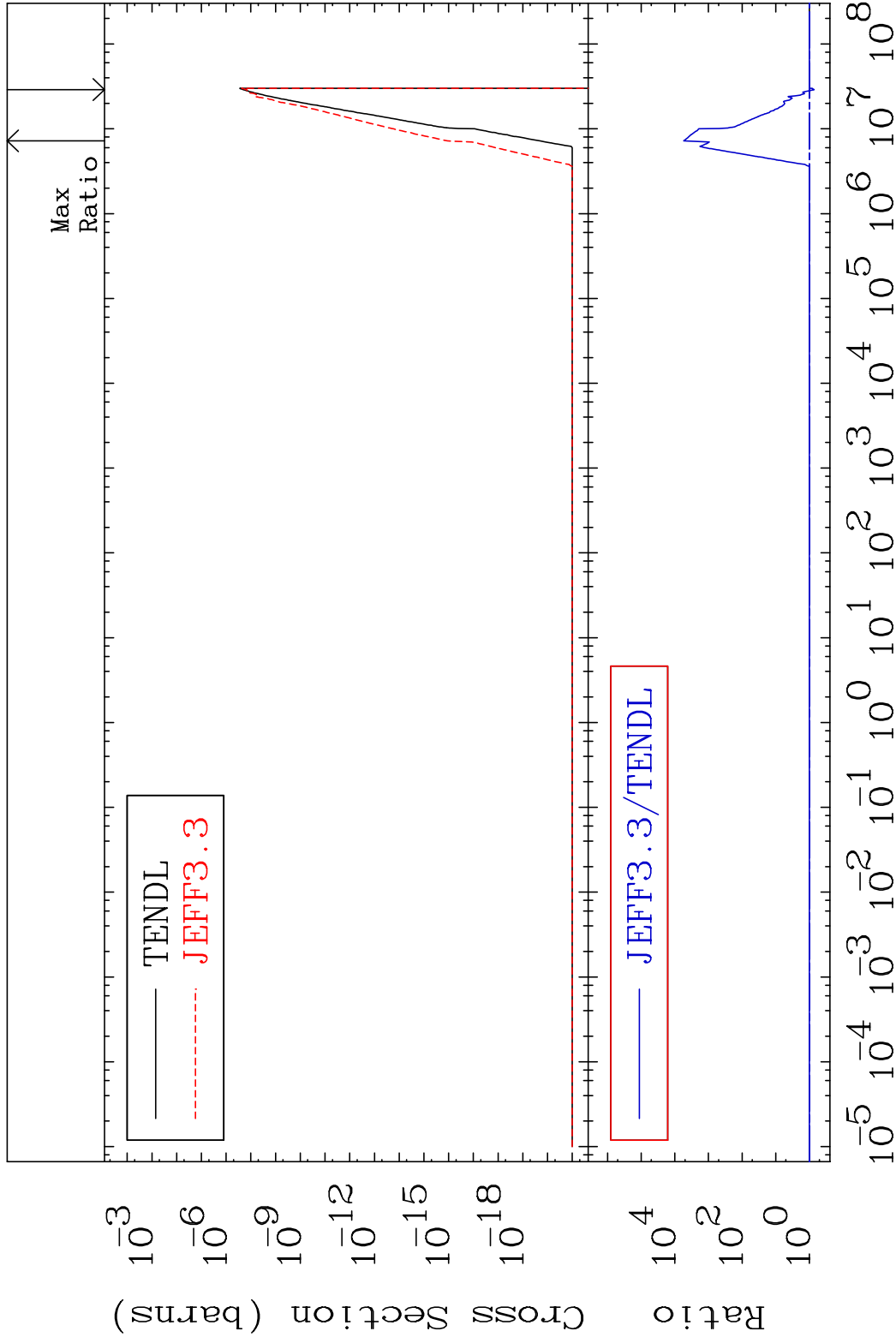
Incident Energy (eV) 70-Yb-170

MAT 7031

(n,2α)

70-Yb-170

Cross Section -27.61 To 9999. %

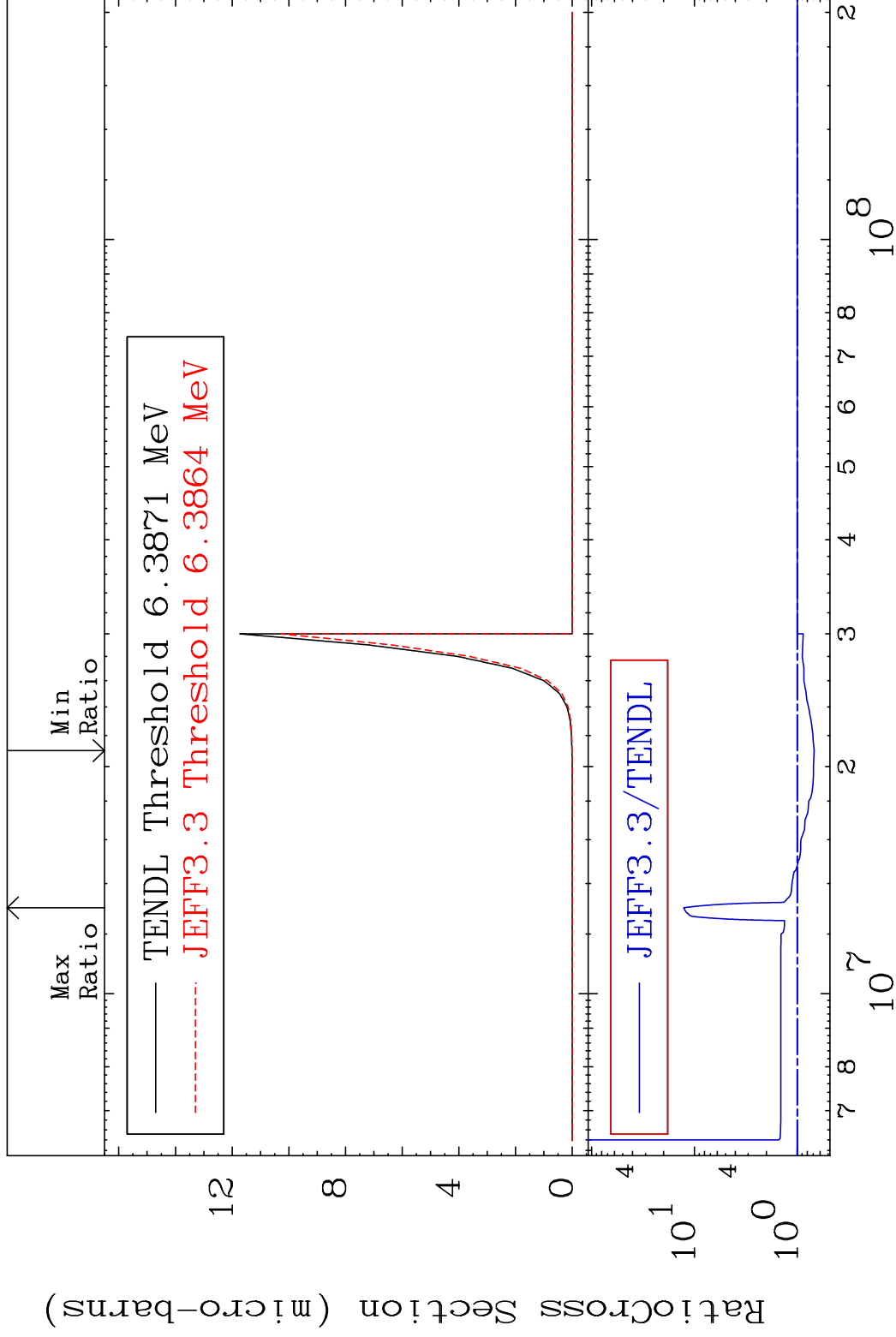


MAT 7031

(n,2p)

70-Yb-170

Cross Section -31.45 To 1174. %



58

Incident Energy (eV)

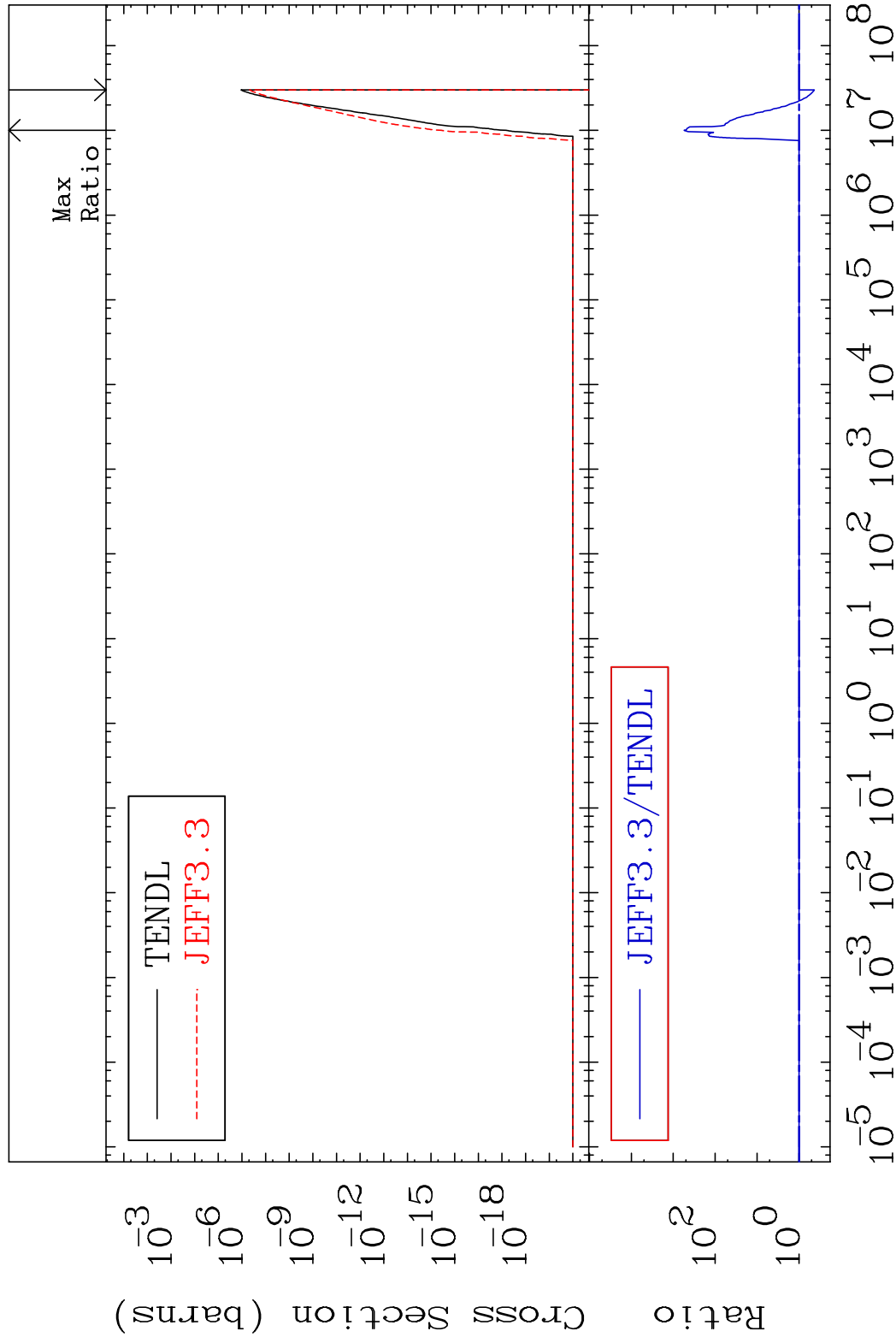
70-Yb-170

MAT 7031

(n,p)  $\alpha$

70-Yb-170

Cross Section -56.91 To 9999. %



59

Incident Energy (eV)

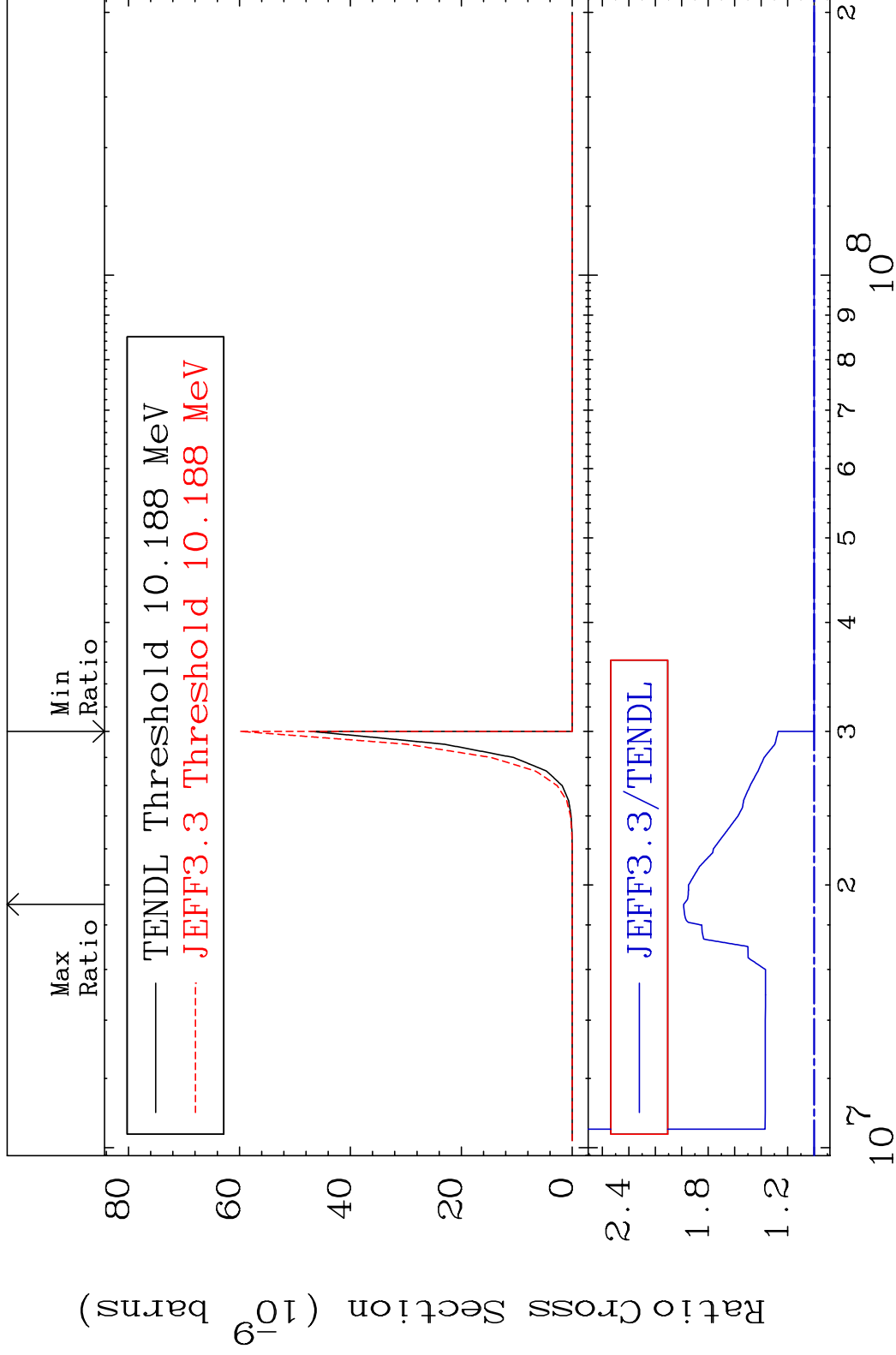
70-Yb-170

MAT 7031

(n,p) d

70-Yb-170

Cross Section 0.000 To 98.55 %



60

Incident Energy (eV)

70-Yb-170

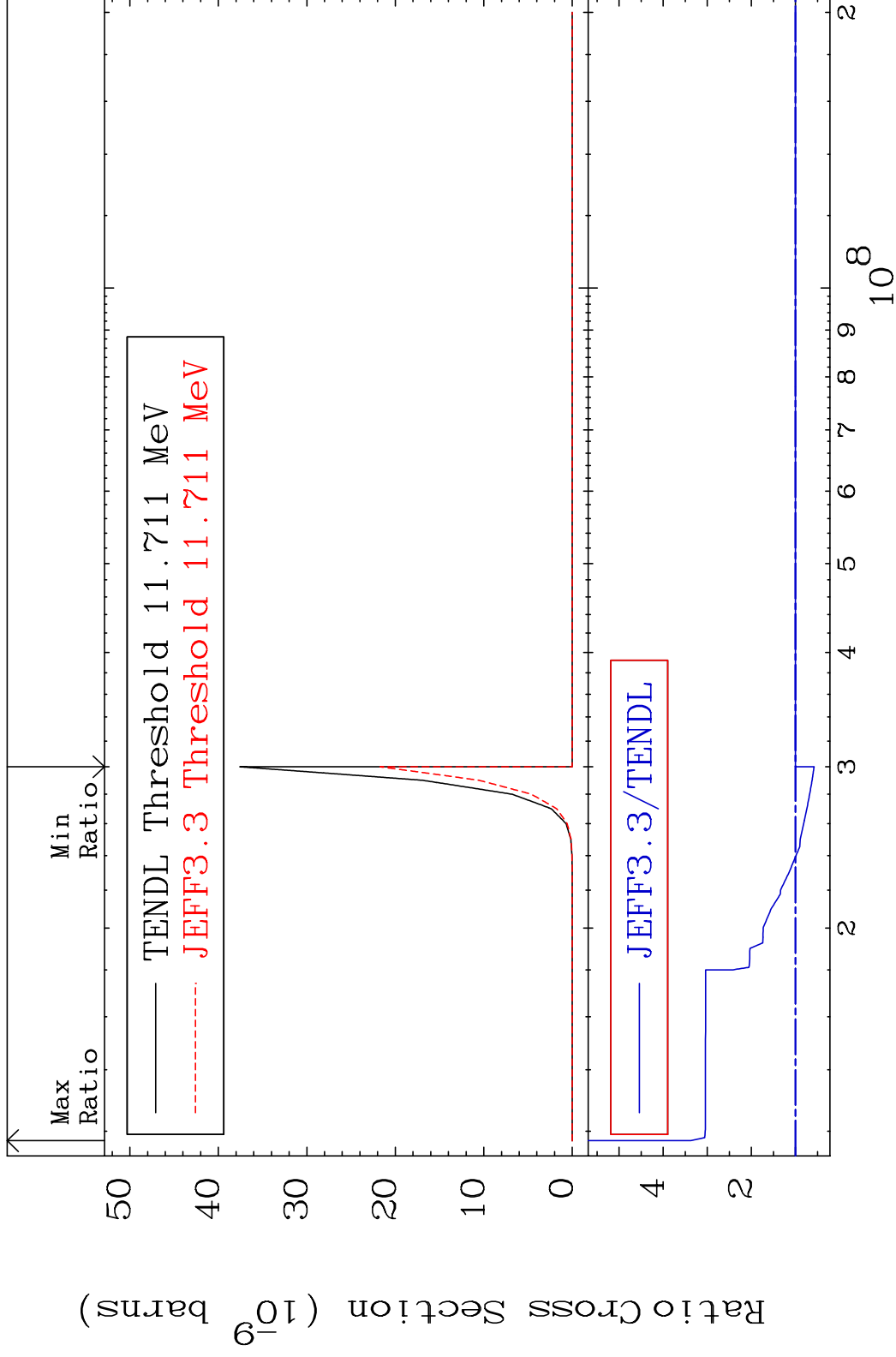
MAT 7031

(n,p) t

70-Yb-170

Cross Section

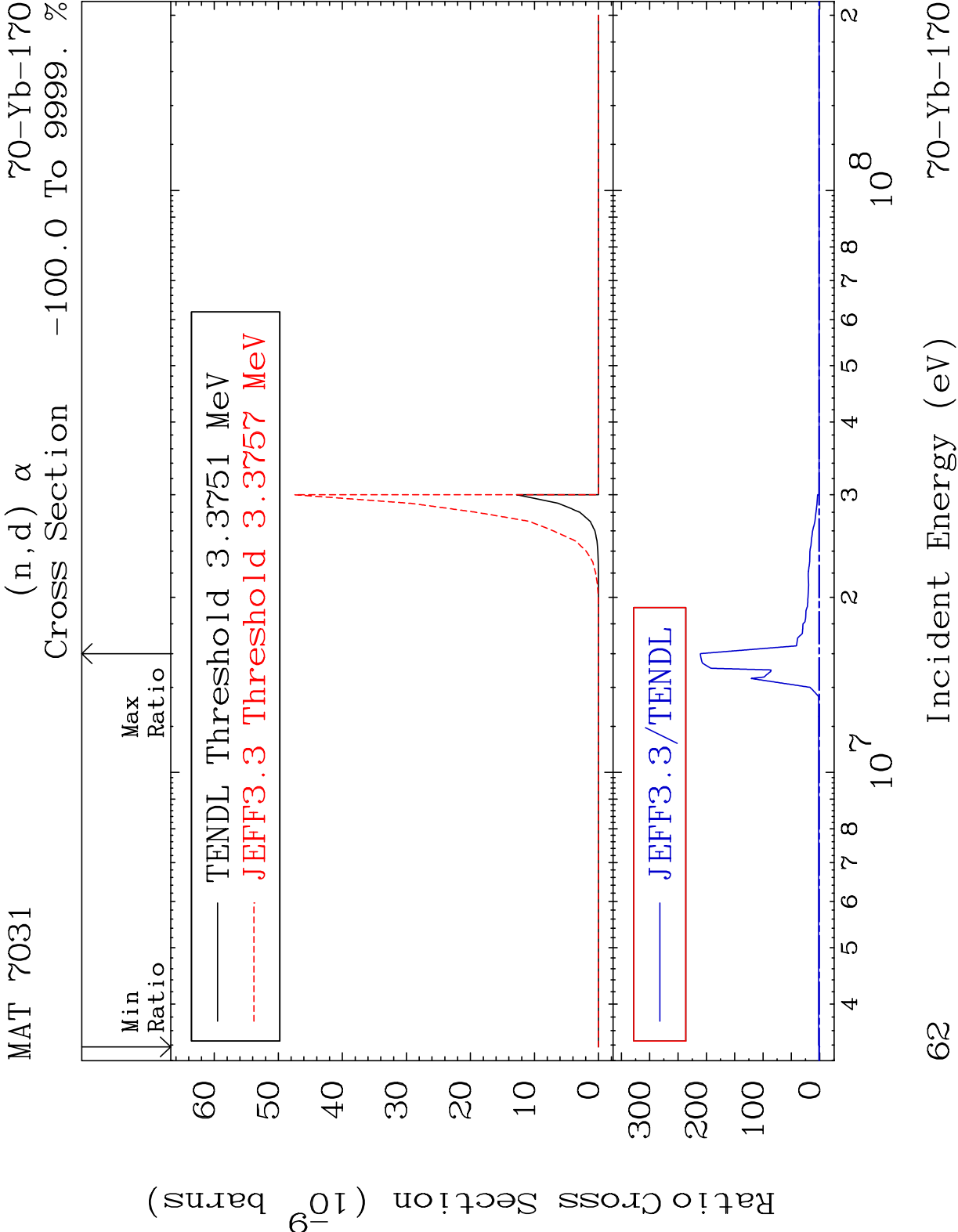
-42.22 To 253.7 %



61

Incident Energy (eV)

70-Yb-170

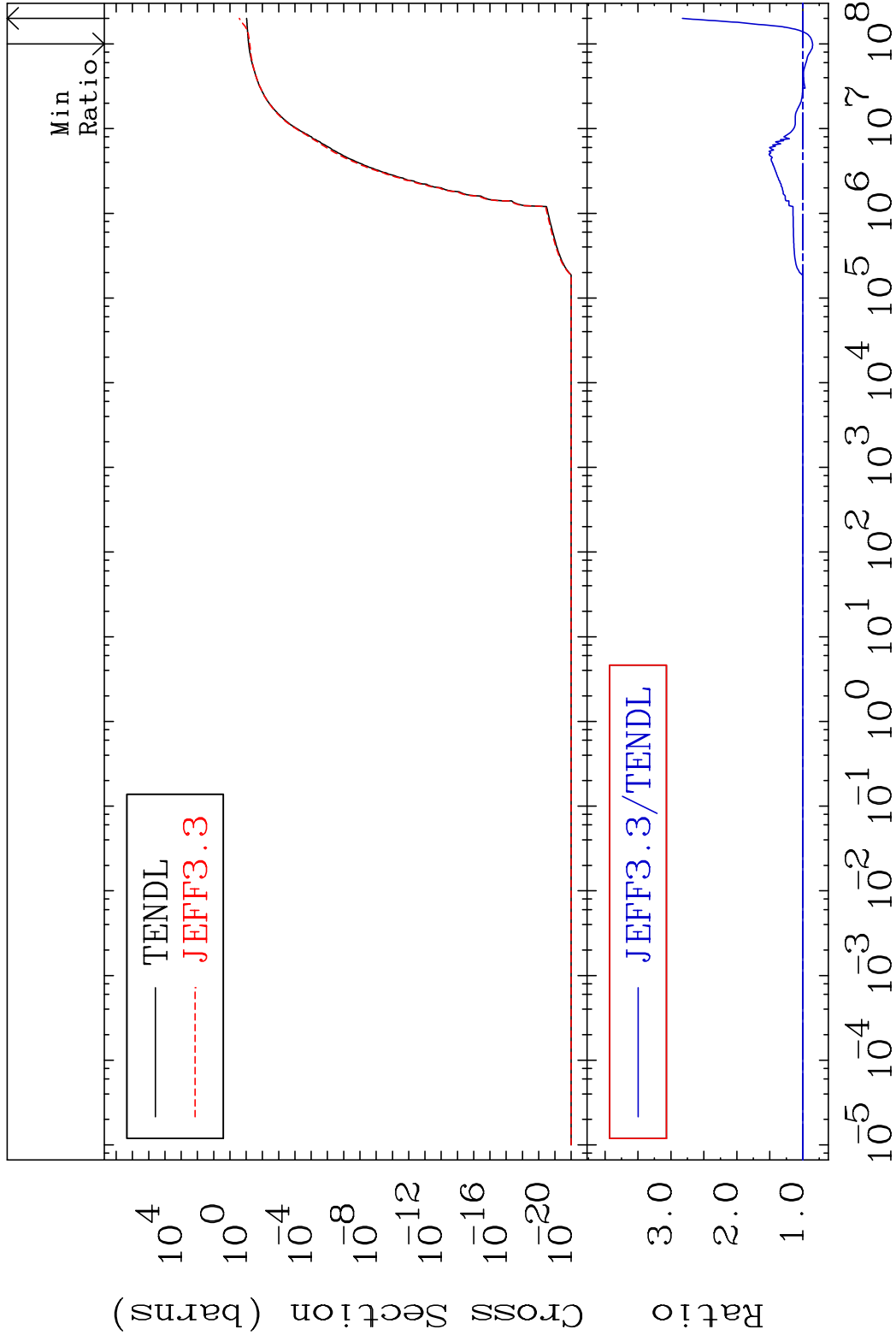


MAT 7031

Hydrogen Production

70-Yb-170

Cross Section -14.77 To 182.7 %



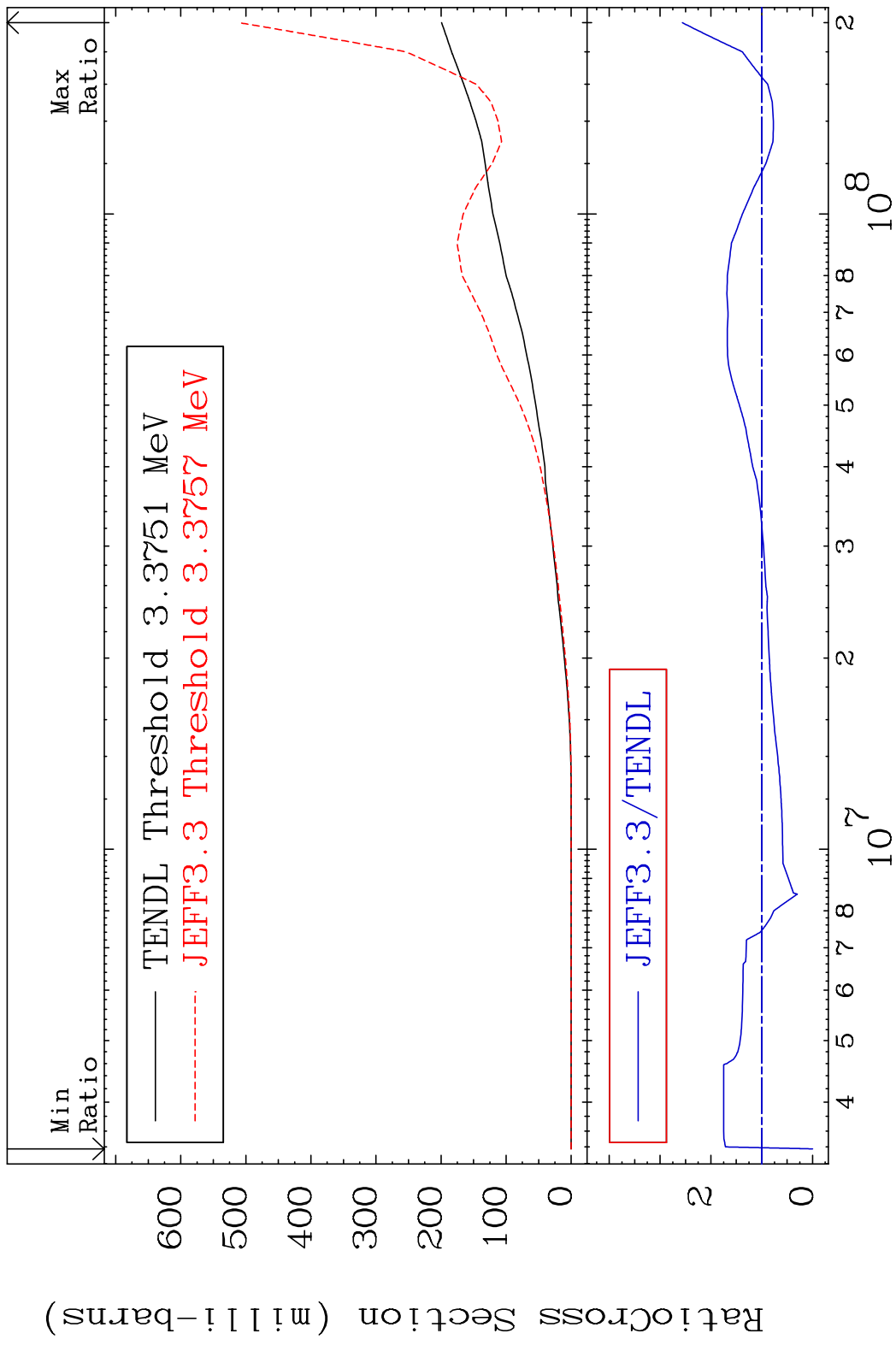
63

Incident Energy (eV)

70-Yb-170



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



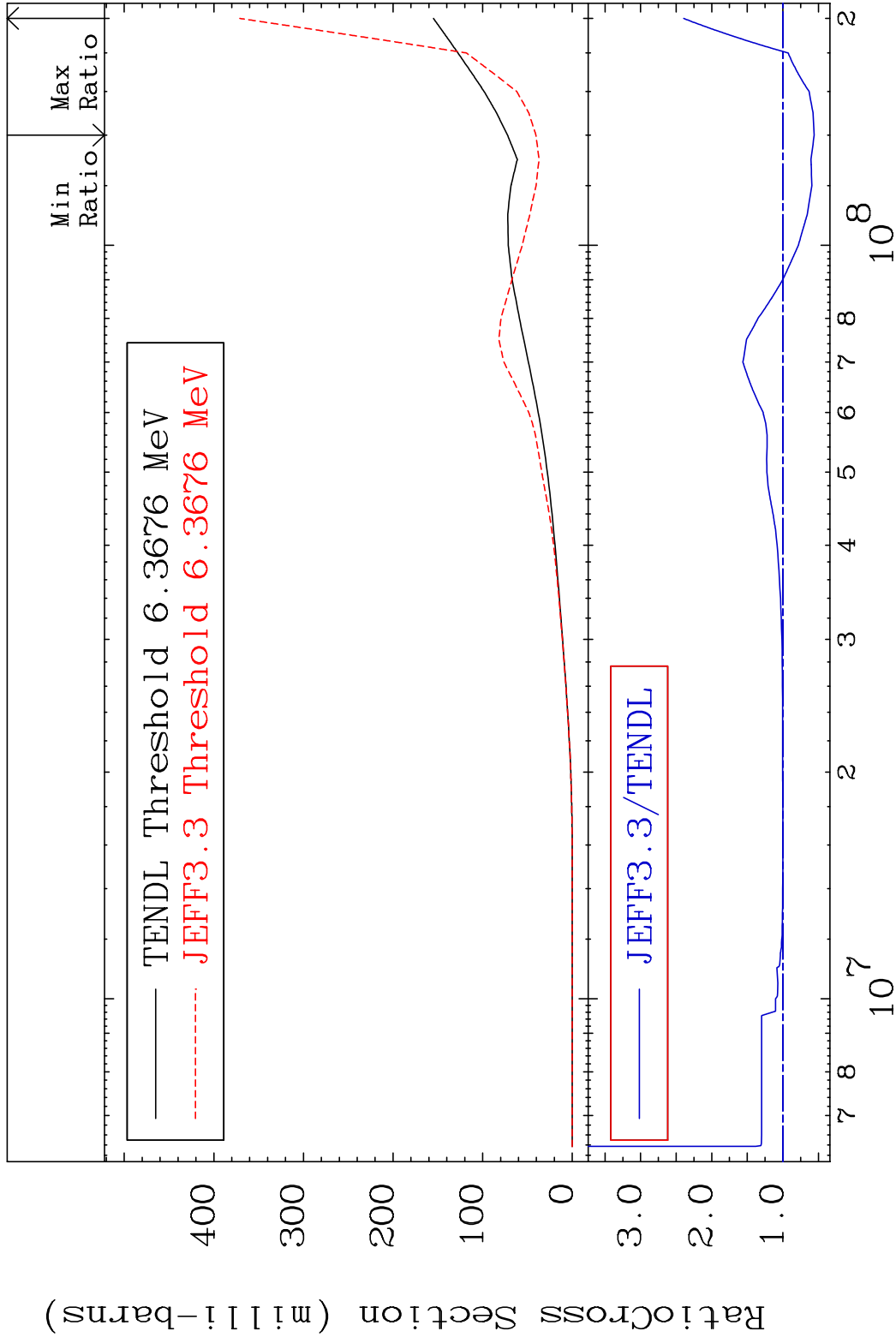
64 Incident Energy (eV) 70-Yb-170

MAT 7031

Tritium Production

70-Yb-170

Cross Section -43.97 To 139.4 %



65

Incident Energy (eV)

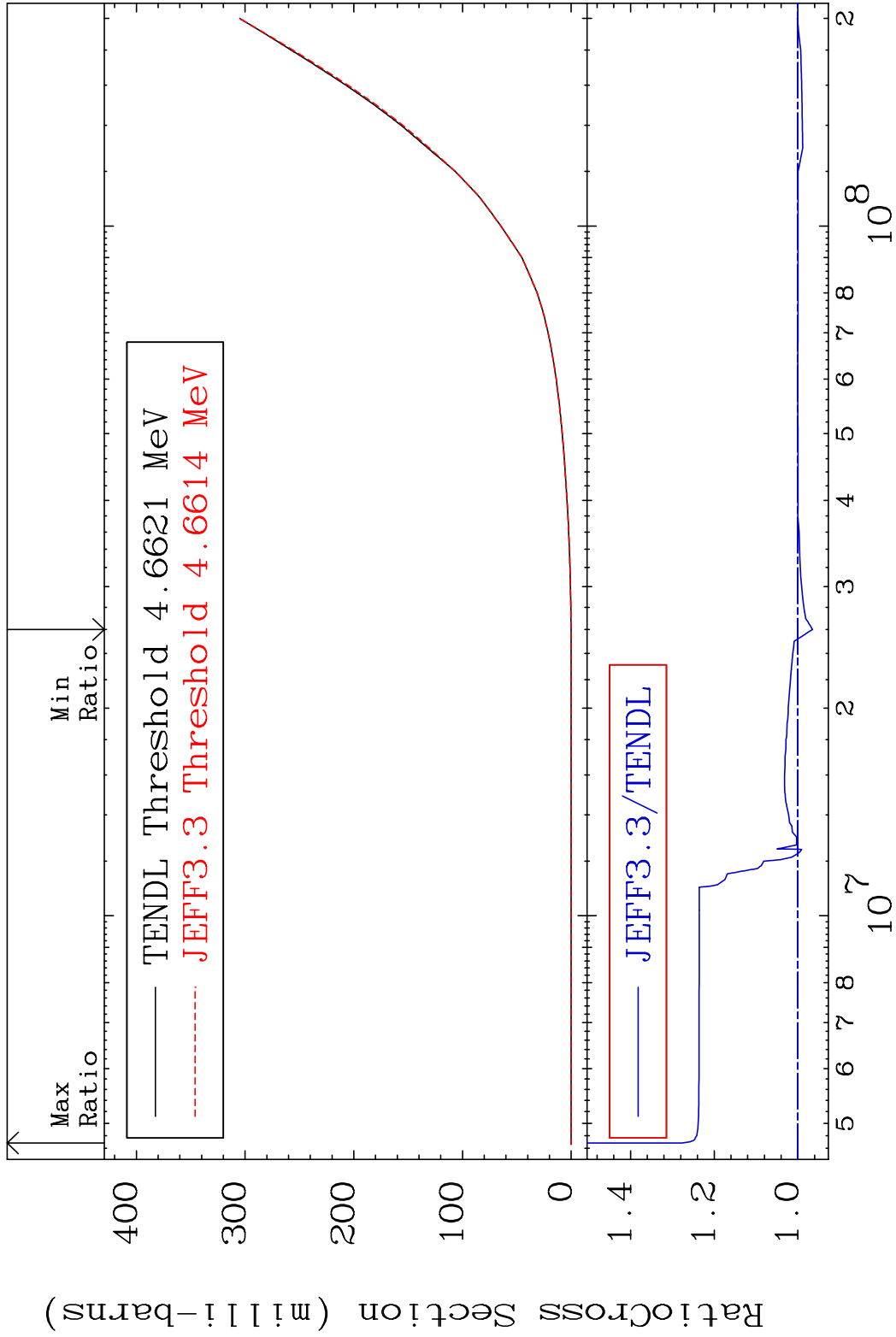
70-Yb-170

MAT 7031

He-3 Production

70-Yb-170

Cross Section -3.519 To 27.62 %



66

Incident Energy (eV)

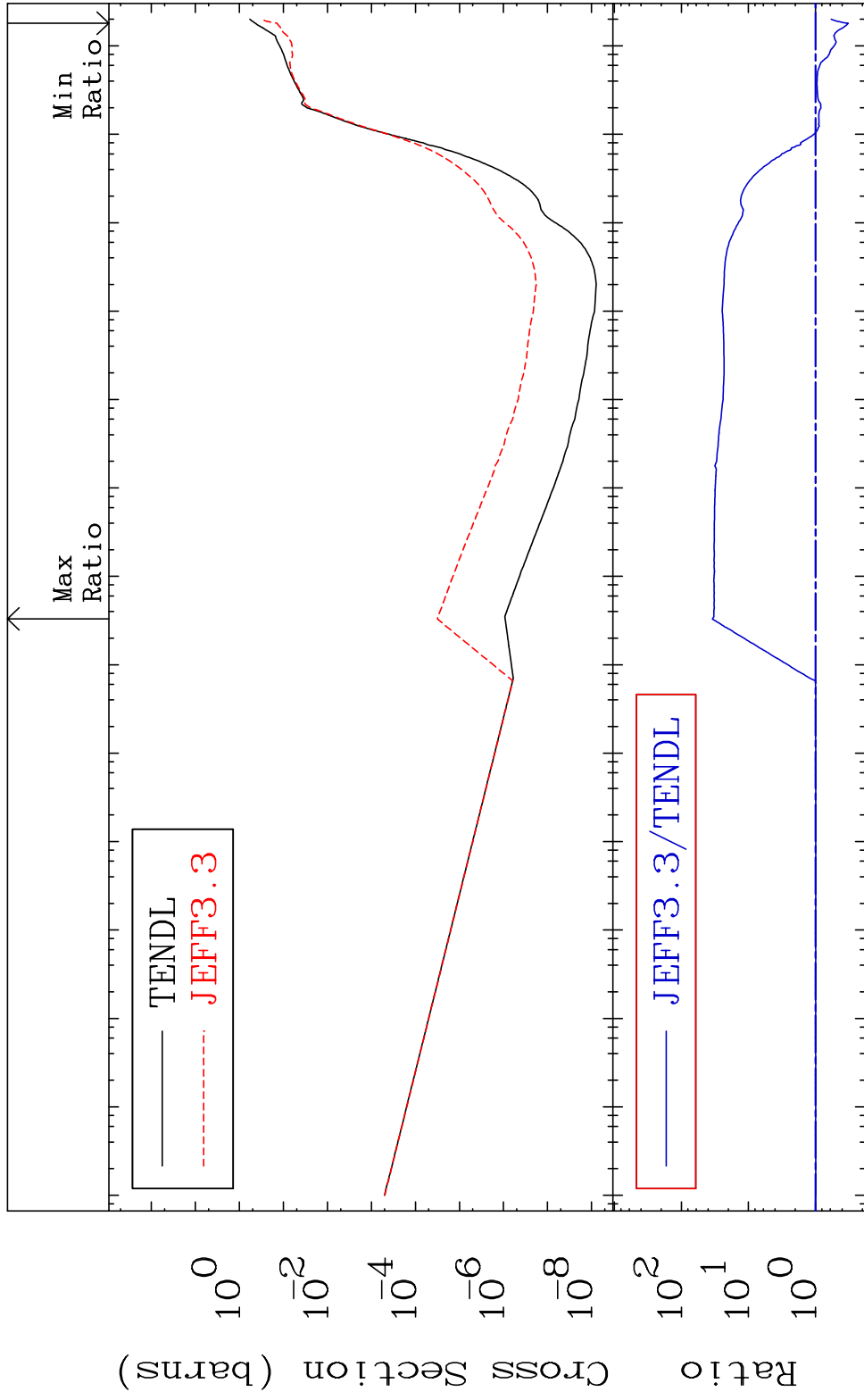
70-Yb-170

MAT 7031

He-4 Production

70-Yb-170

Cross Section -67.63 To 3355. %

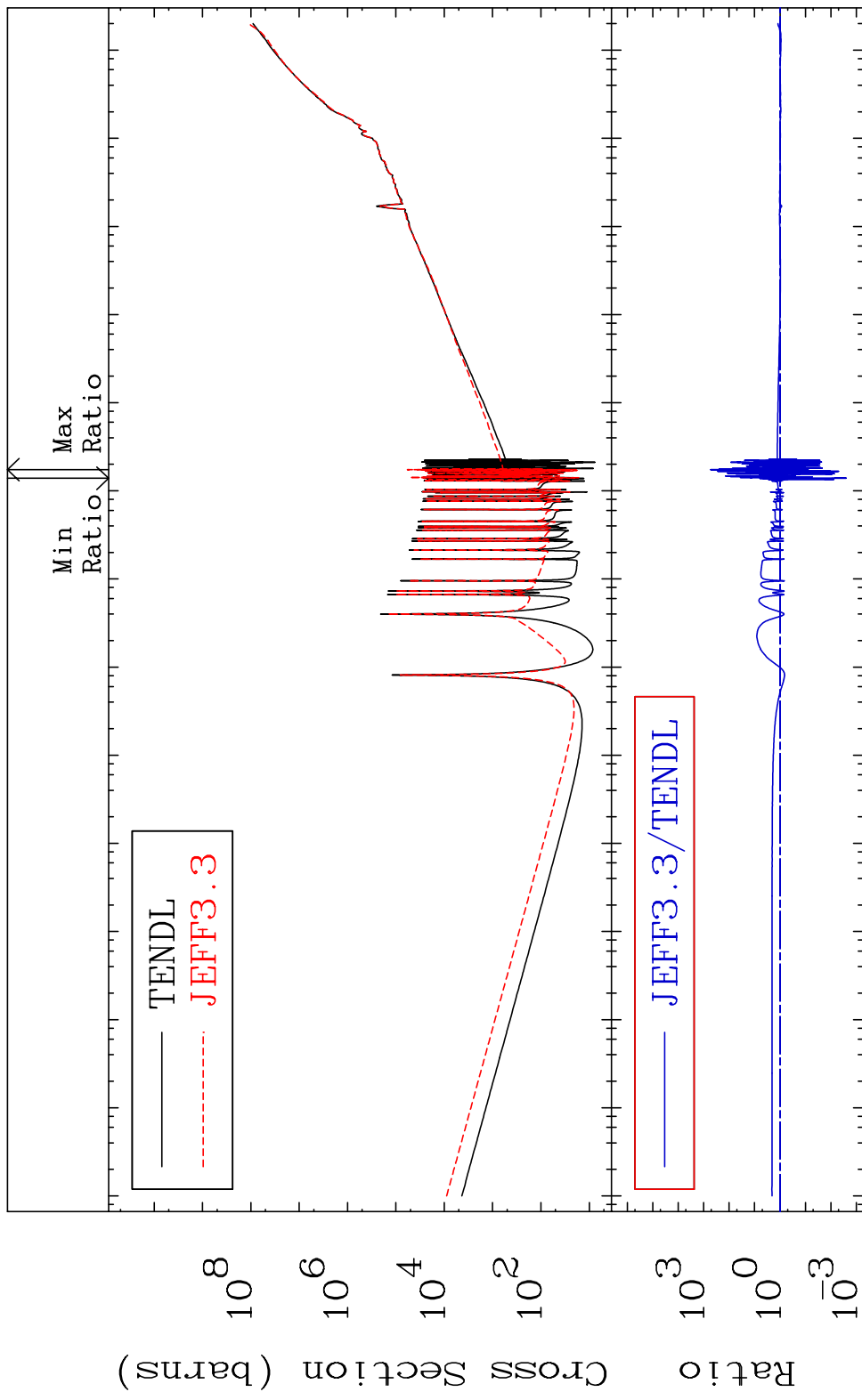


67

Incident Energy (eV)

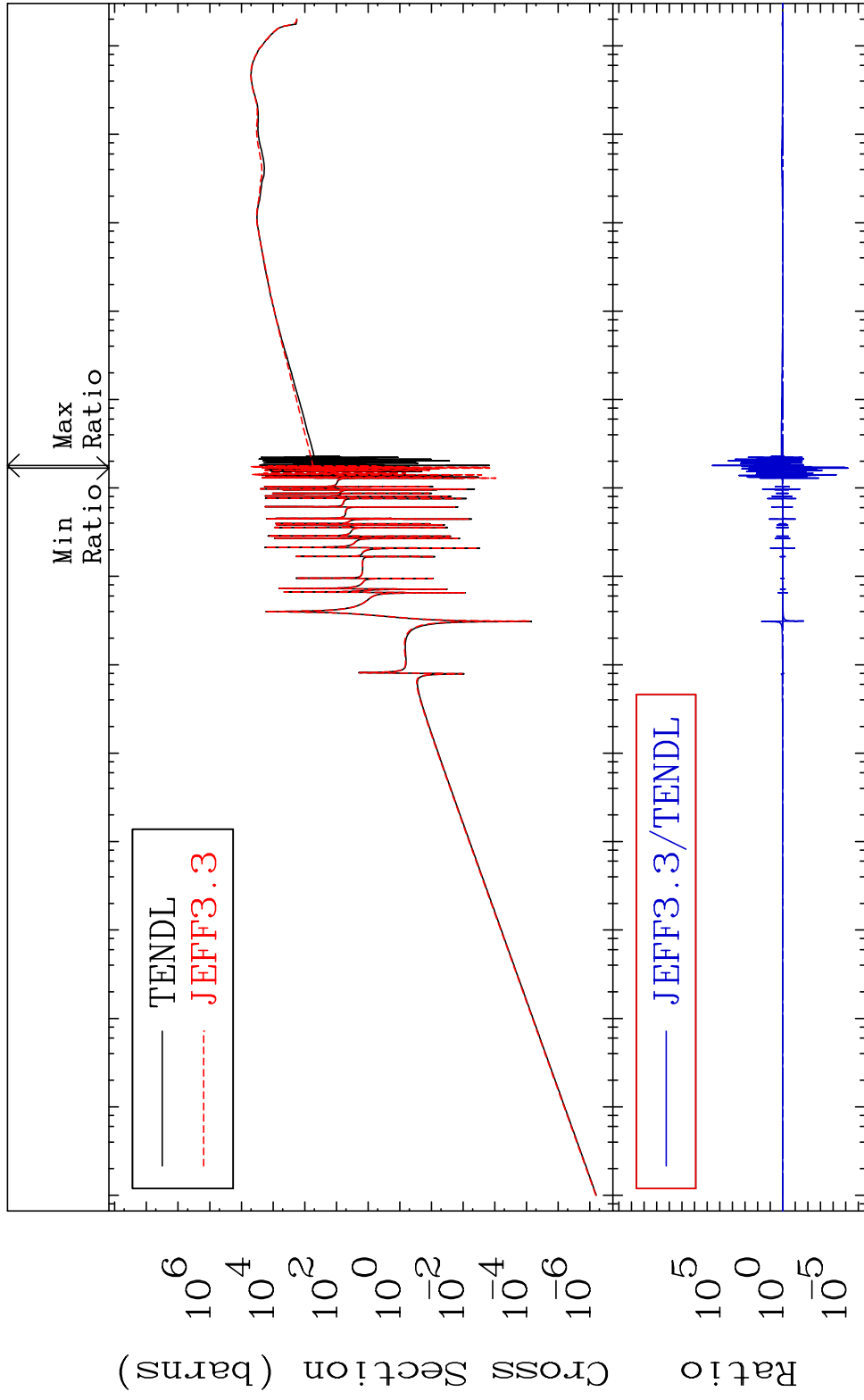
70-Yb-170

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

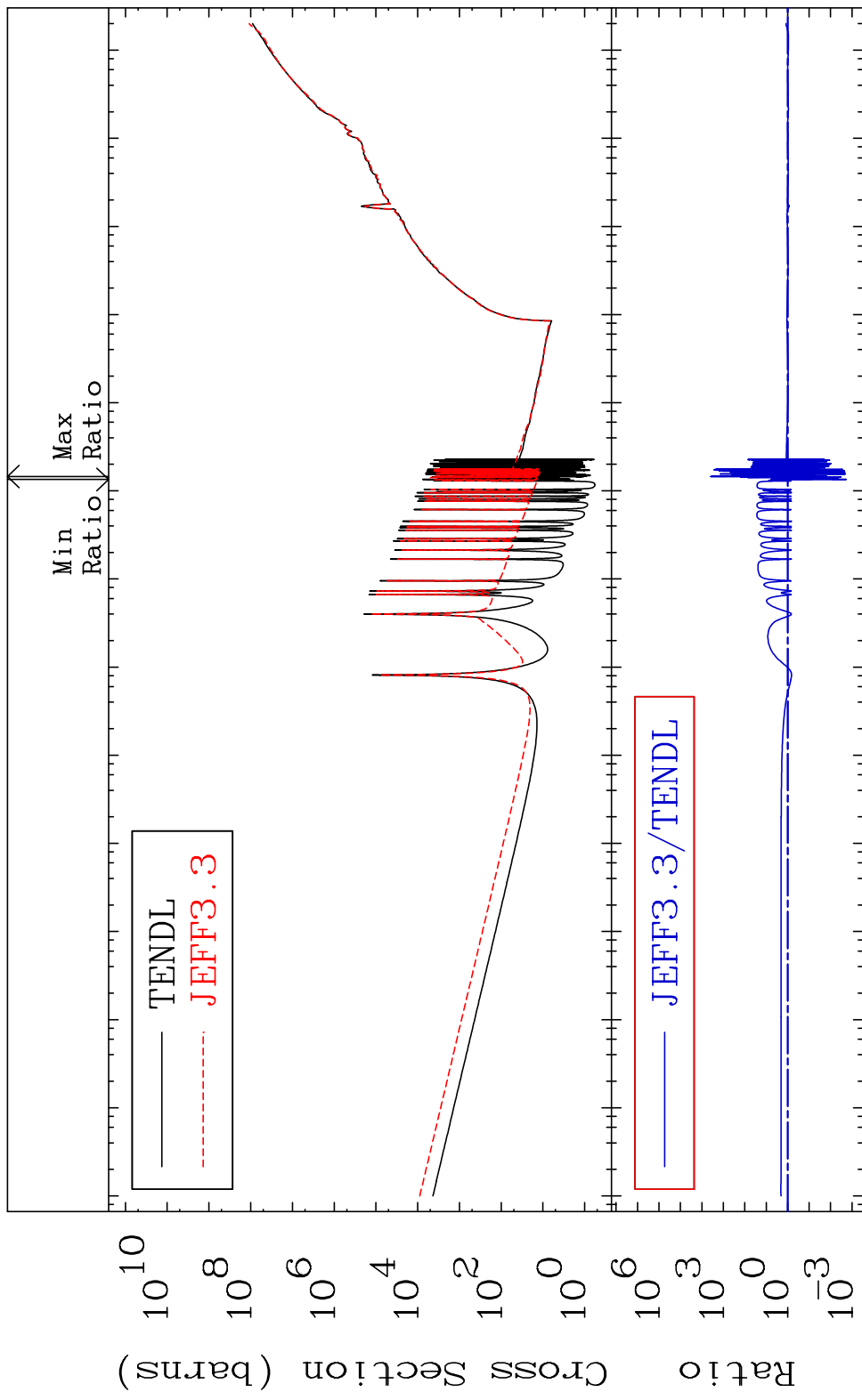


MAT 7031

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

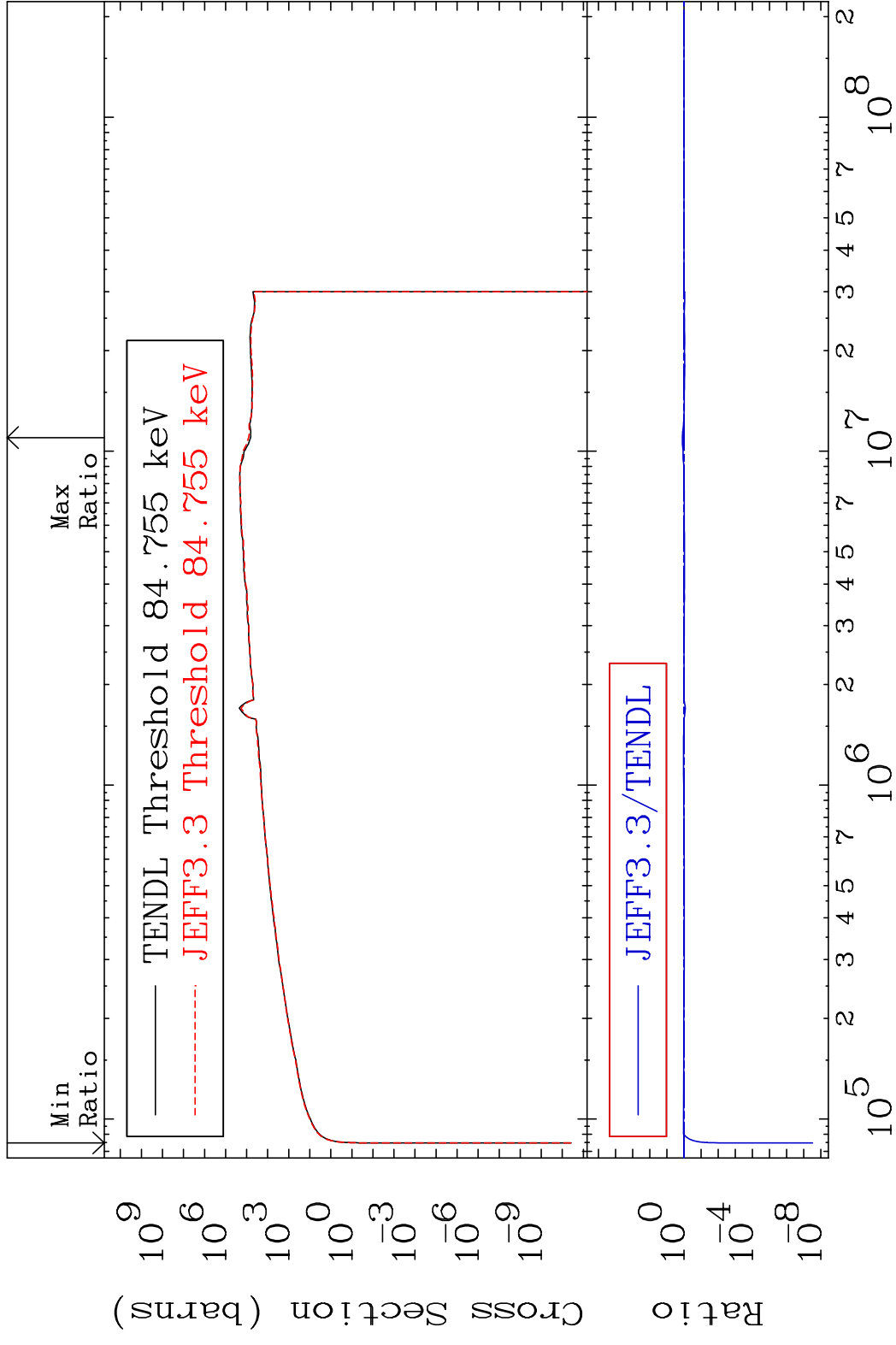


MAT 7031 Kerma non-elastic (all but mt2) 70-Yb-170  
 Cross Section -99.82 To 9999. %



70 Incident Energy (eV) 70-Yb-170

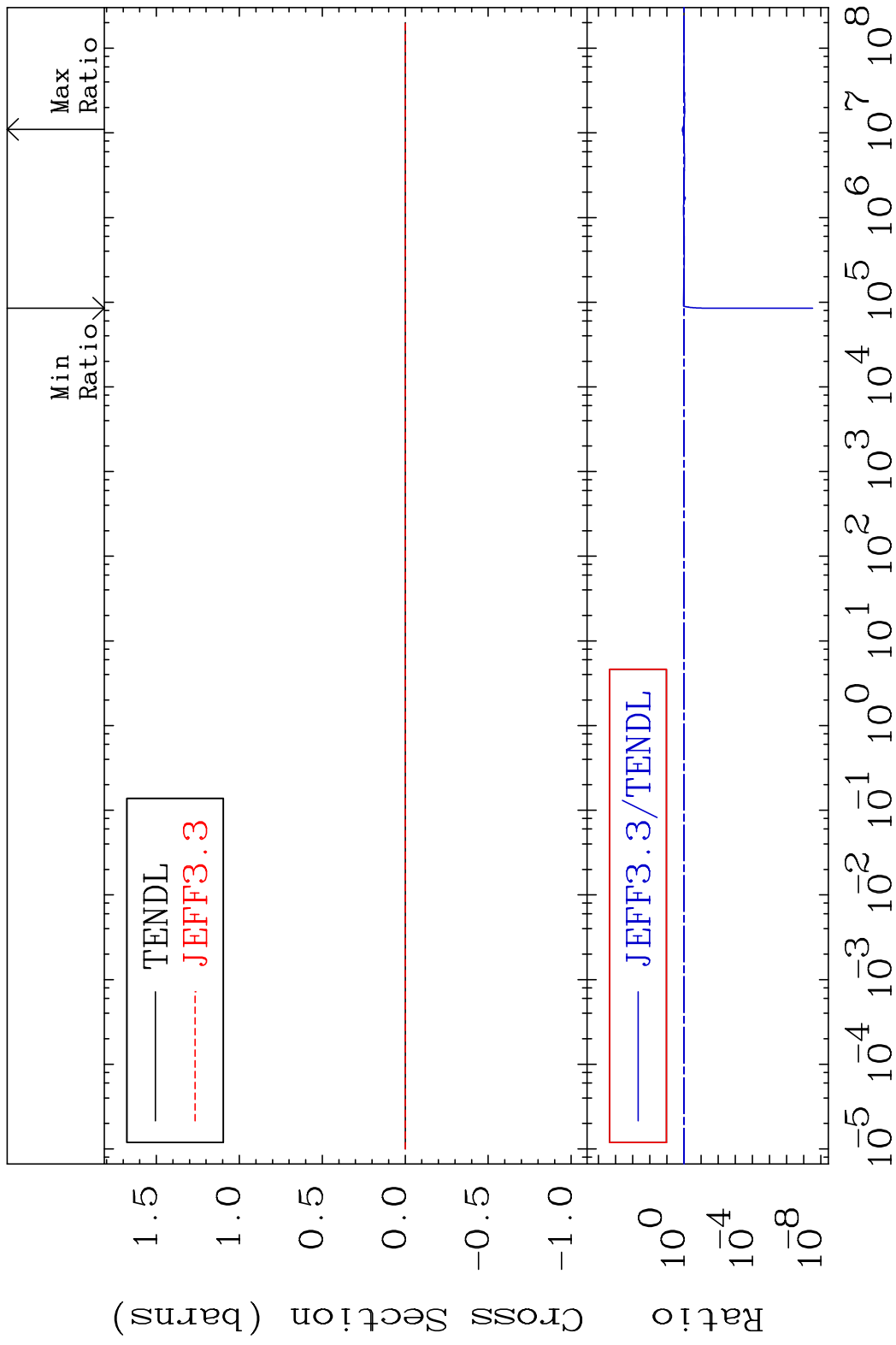
MAT 7031 Kerma inelastic (mt51-91) 70-Yb-170  
 Cross Section -100.0 To 24.35 %



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 %

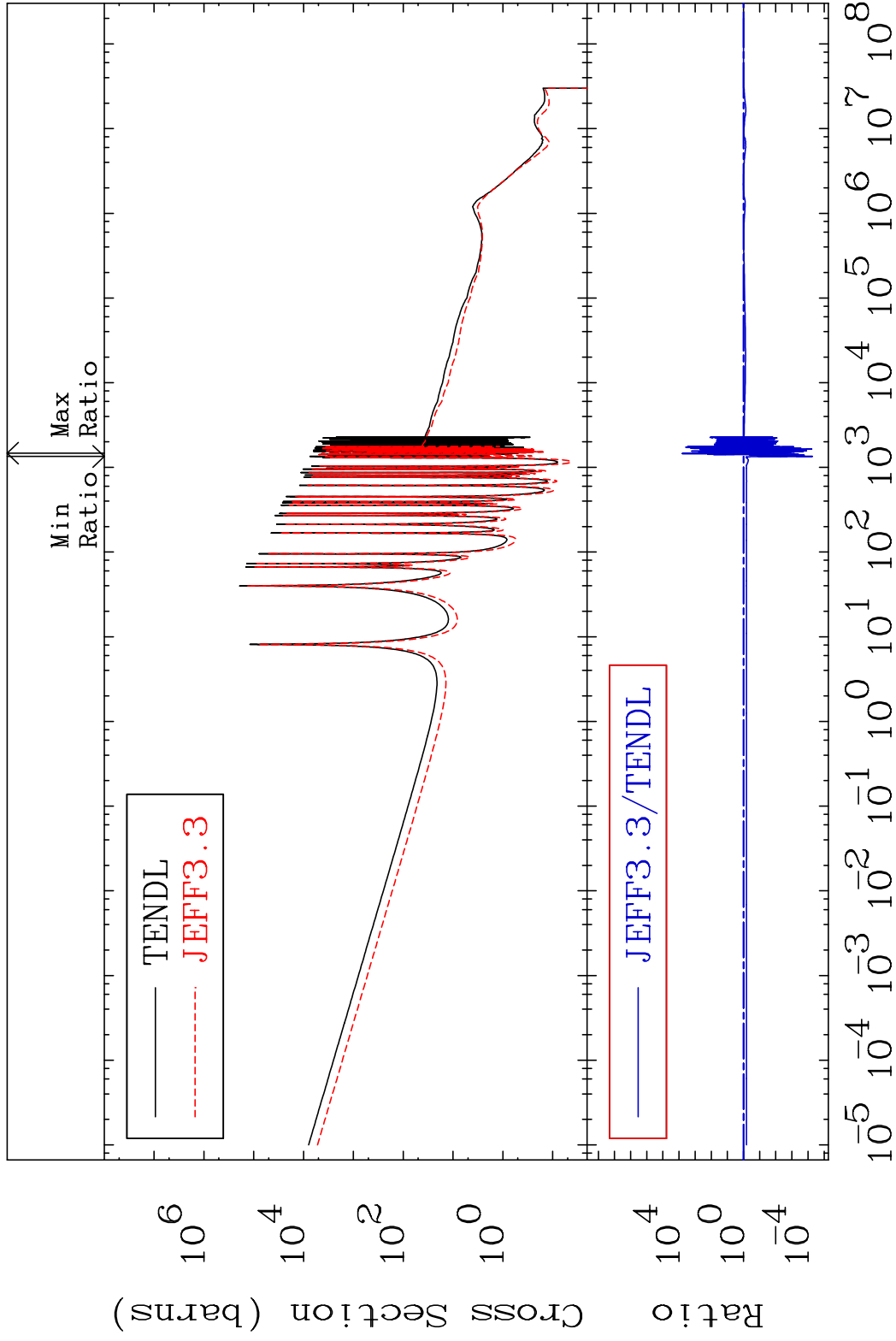


MAT 7031

Kerma capture (mt102)

70-Yb-170

Cross Section -99.99 To 9999. %

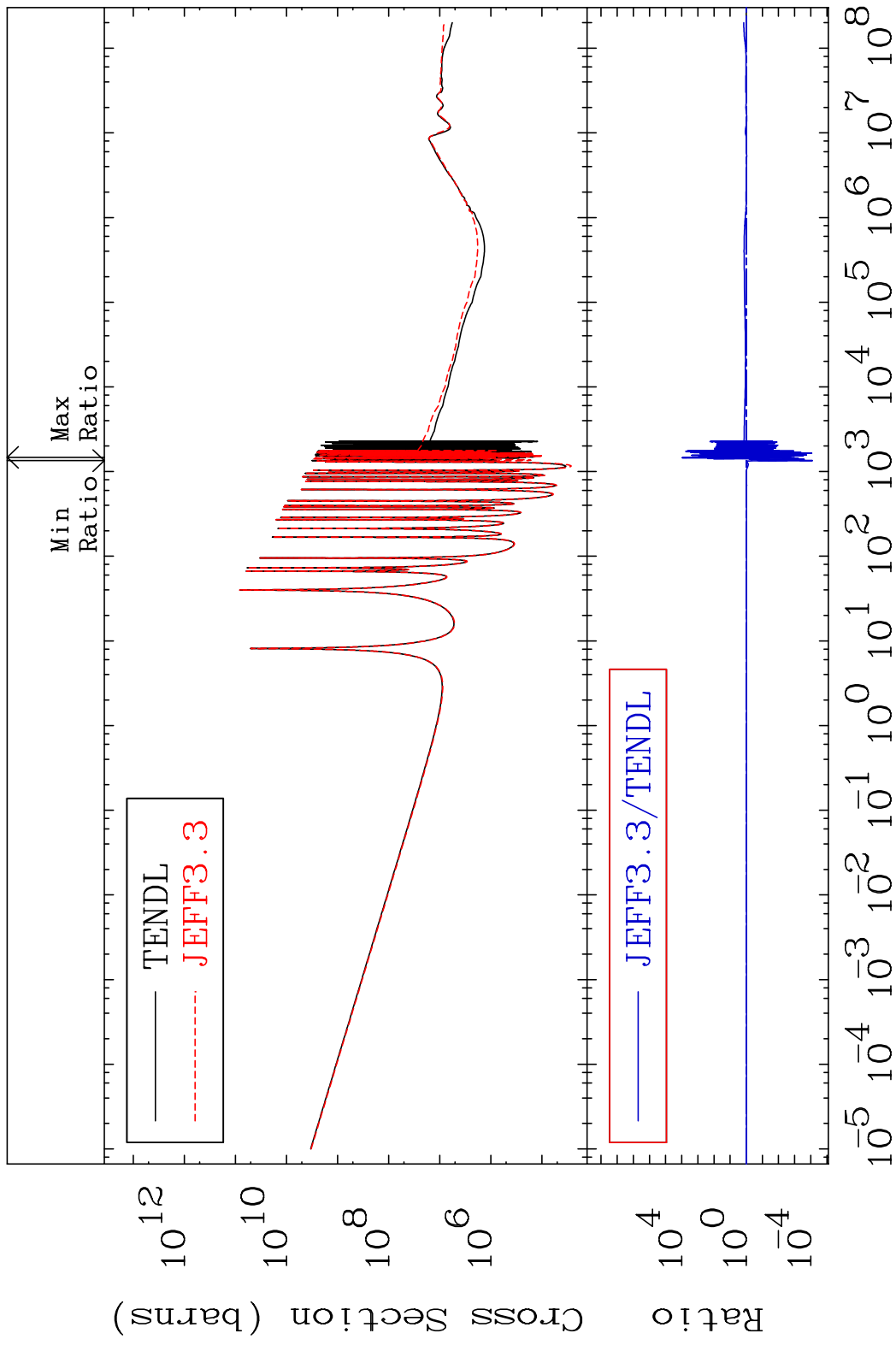


73

Incident Energy (eV)

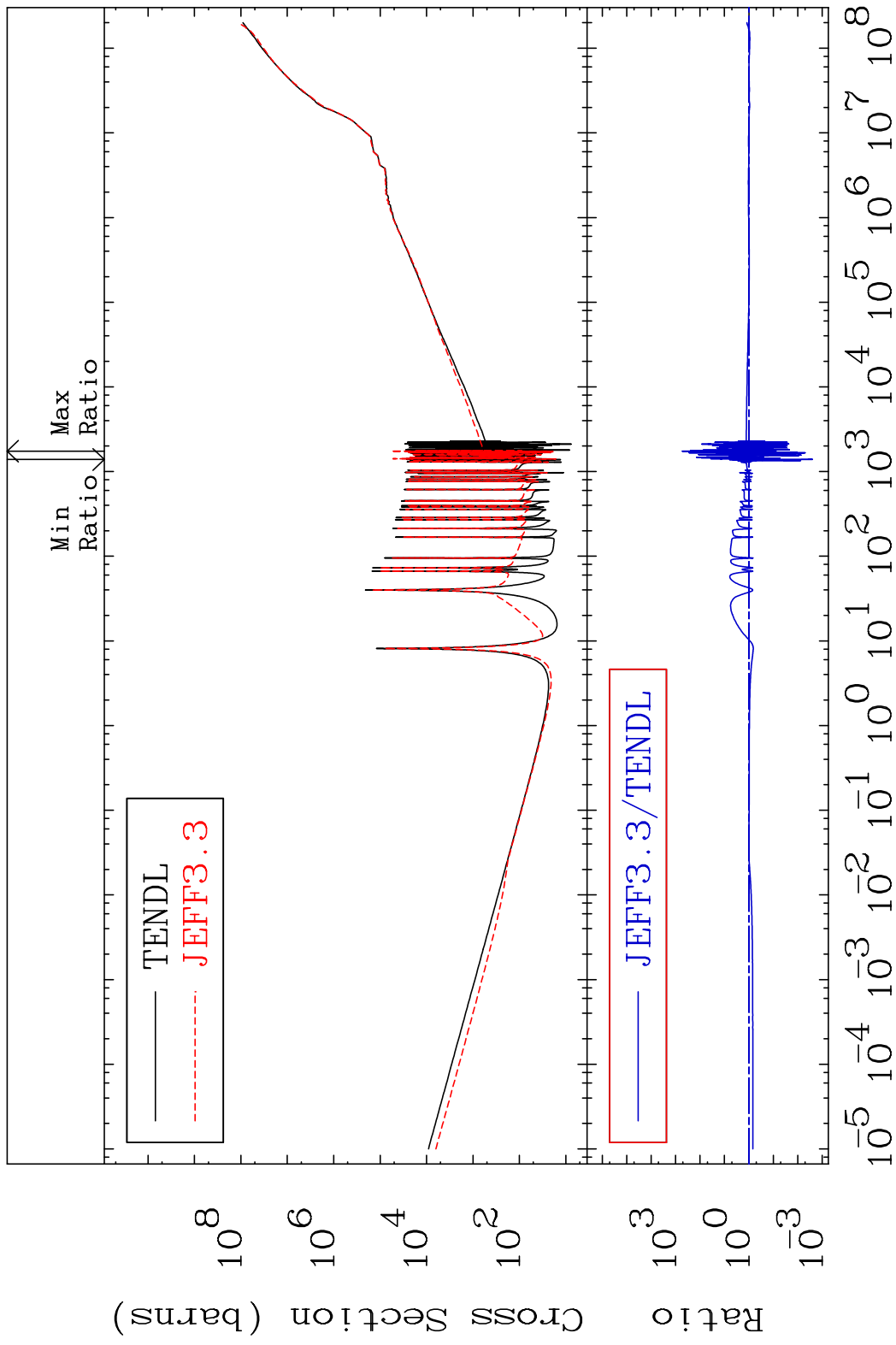
70-Yb-170

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



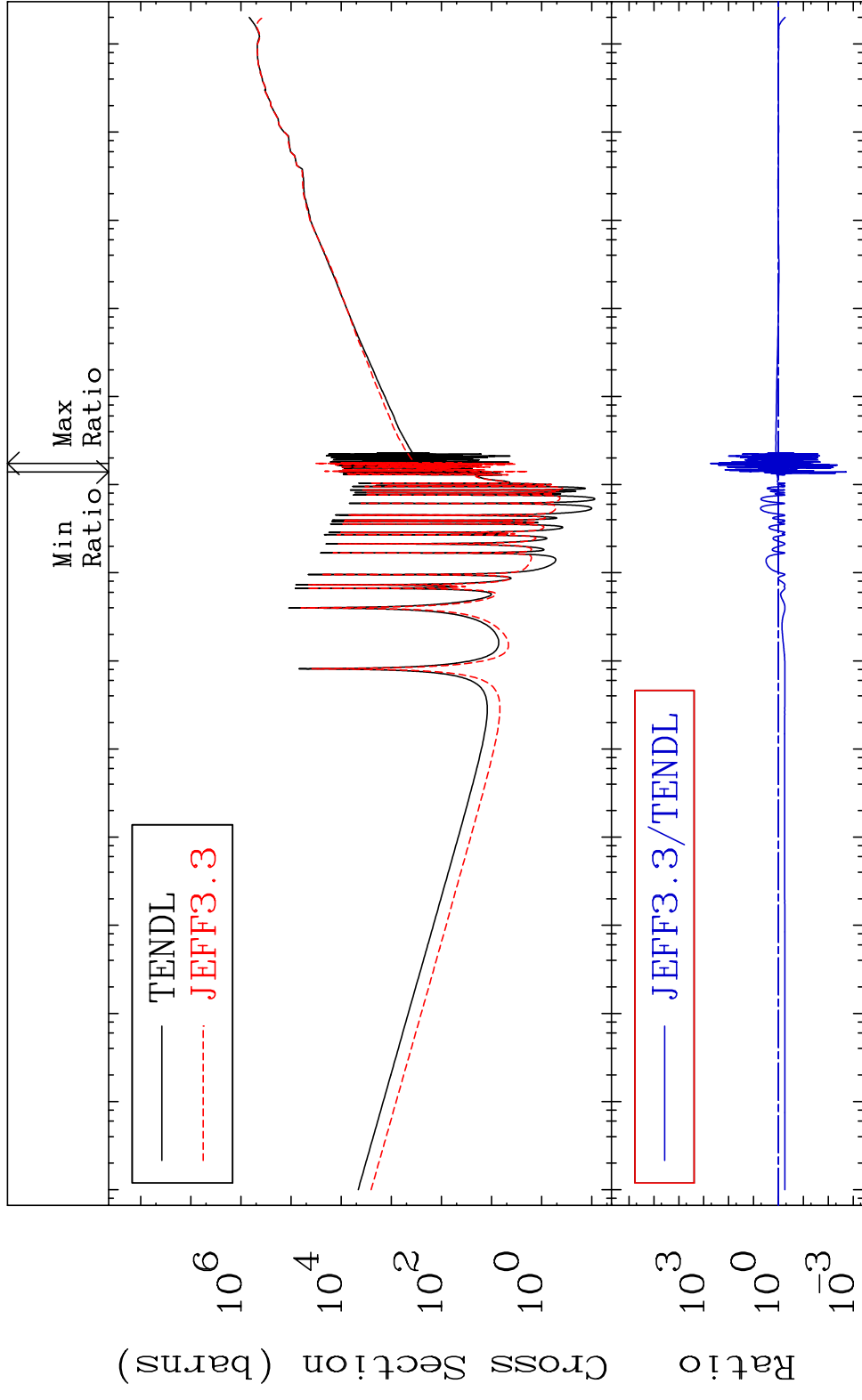
74 Incident Energy (eV) 70-Yb-170

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. %

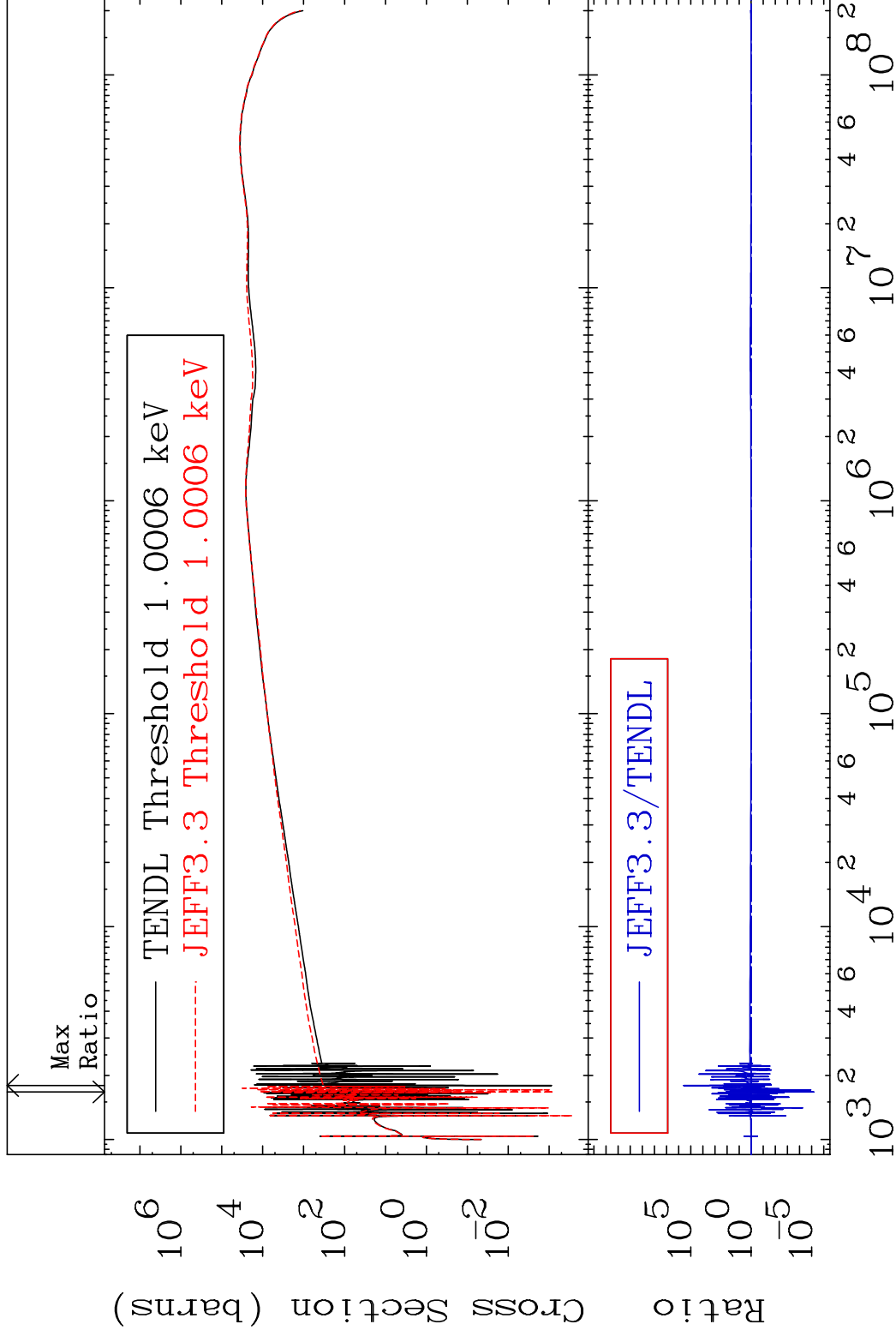


MAT 7031

Dpa elastic (mt2)

70-Yb-170

Cross Section -100.0 To 9999. %

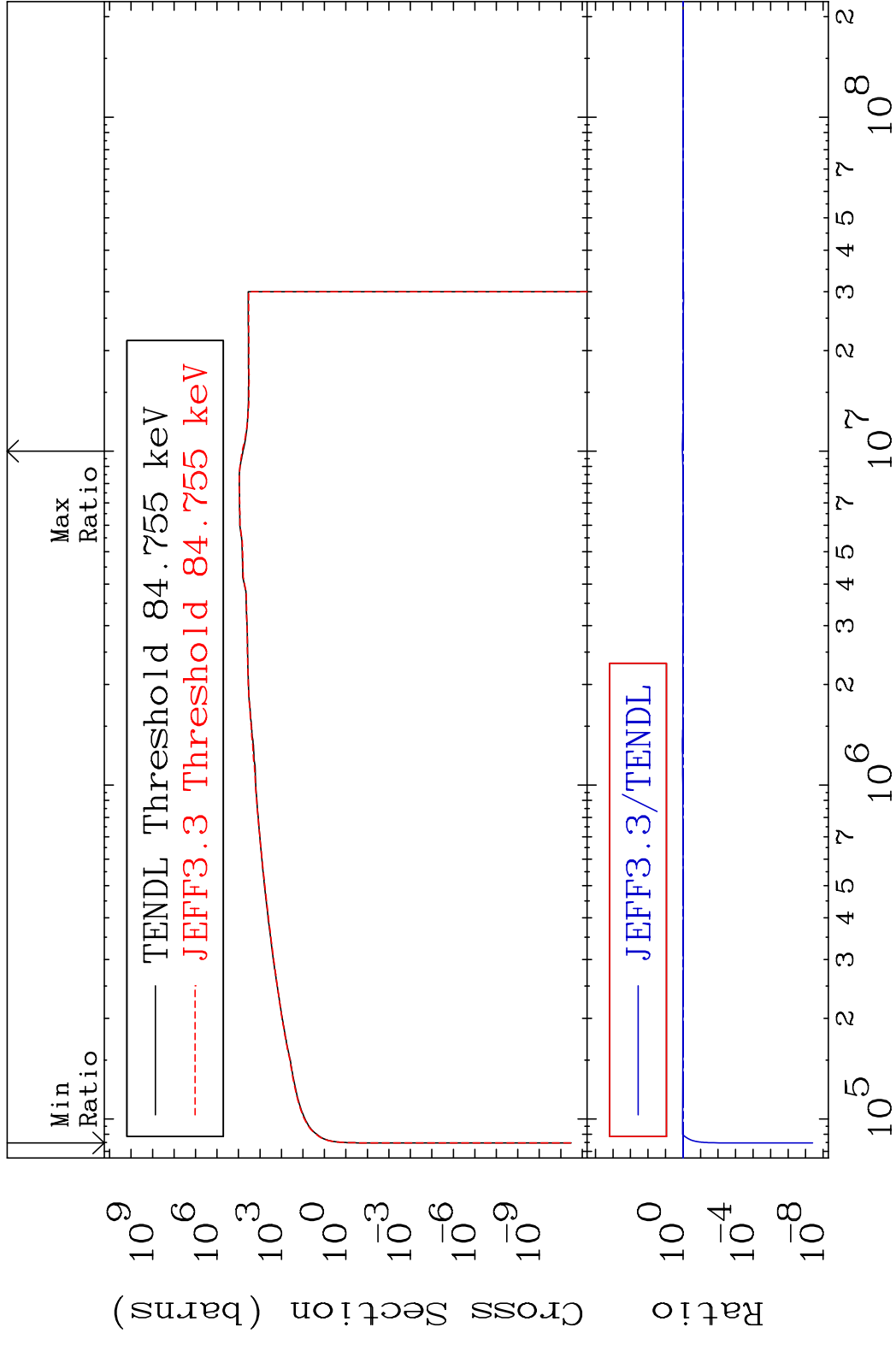


77

Incident Energy (eV)

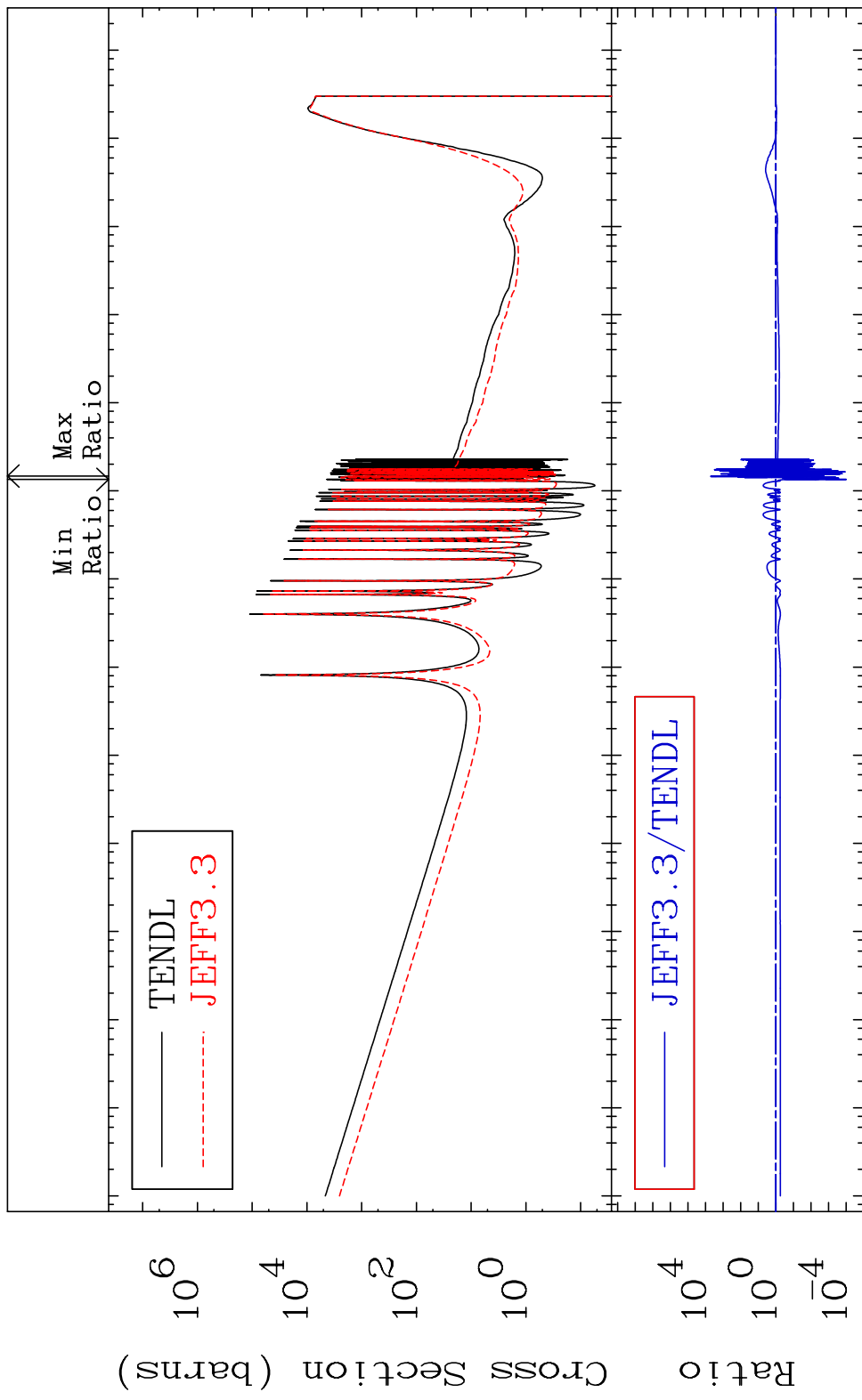
70-Yb-170

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



78 Incident Energy (eV) 70-Yb-170

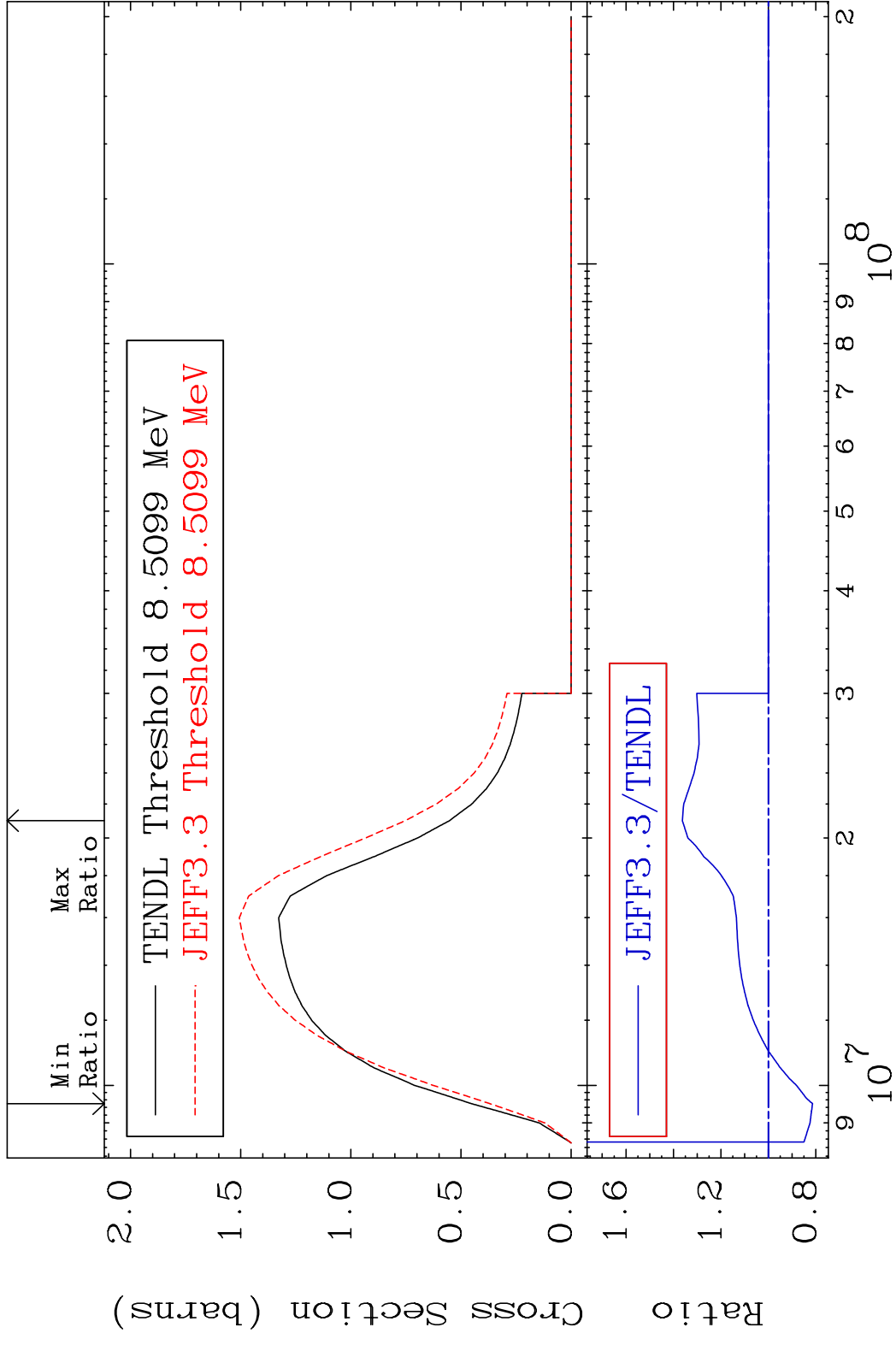
MAT 7031 Dpa disappearance (mt102 -120) 70-Yb-170  
 Cross Section -99.99 To 9999. %



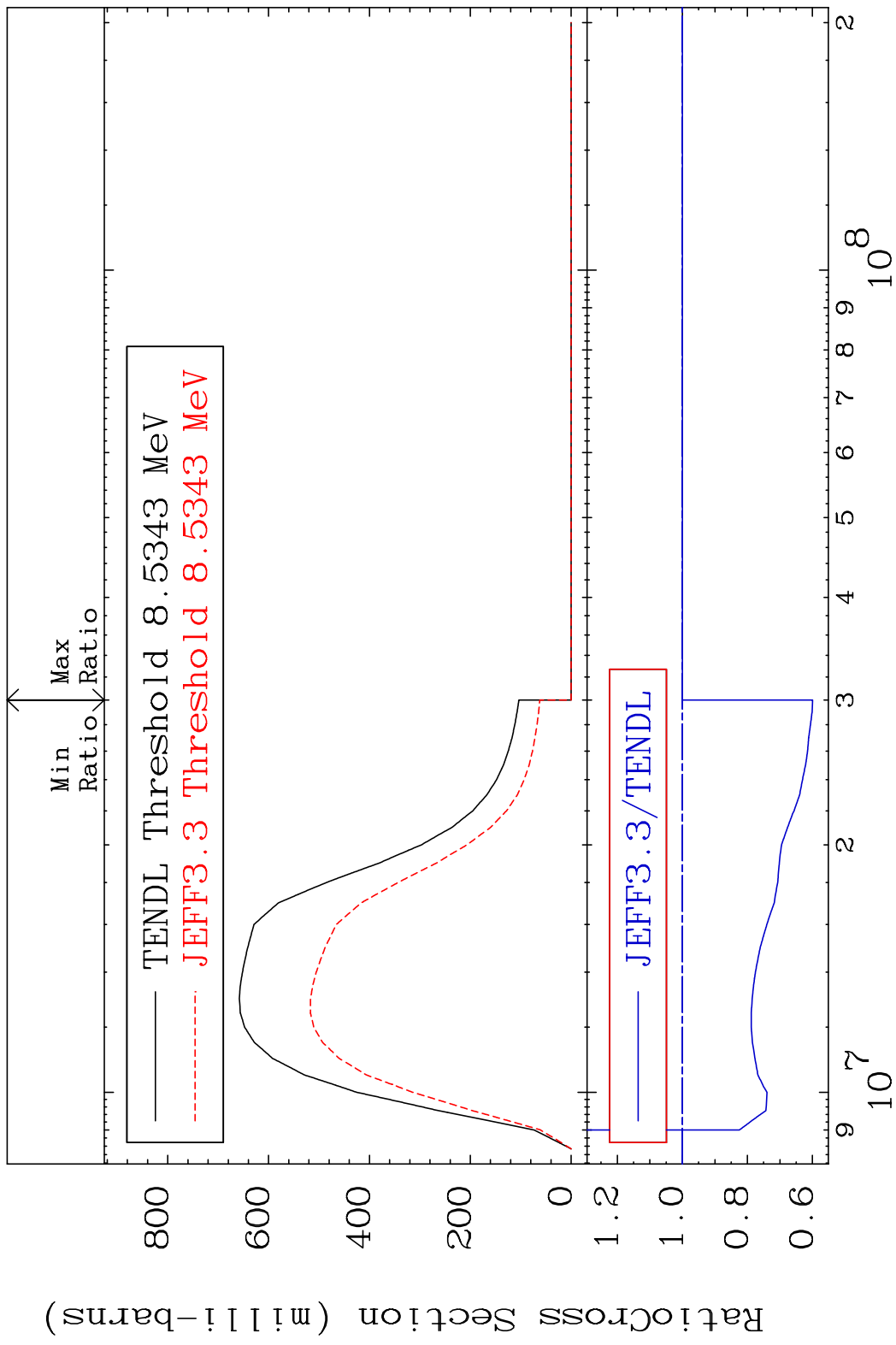
79 Incident Energy (eV) 70-Yb-170

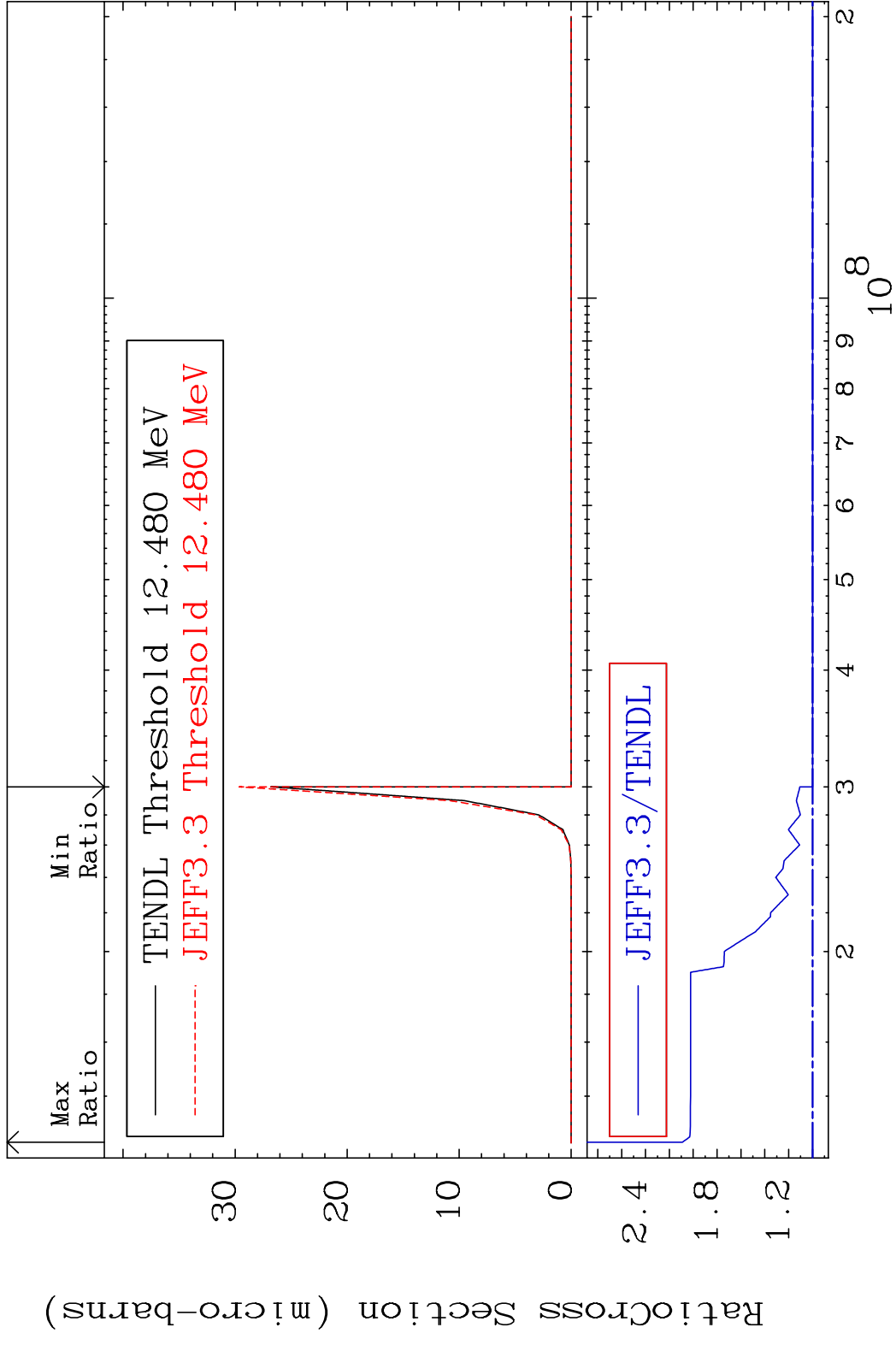


MAT 7031 (n,2n):70-Yb-169g 70-Yb-170  
 Radionuclide Production Cross Section 186.64 dth 36.23 %



80 Incident Energy (eV) 70-Yb-170





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

