

Program Complot  
(Version 2021-1)

by

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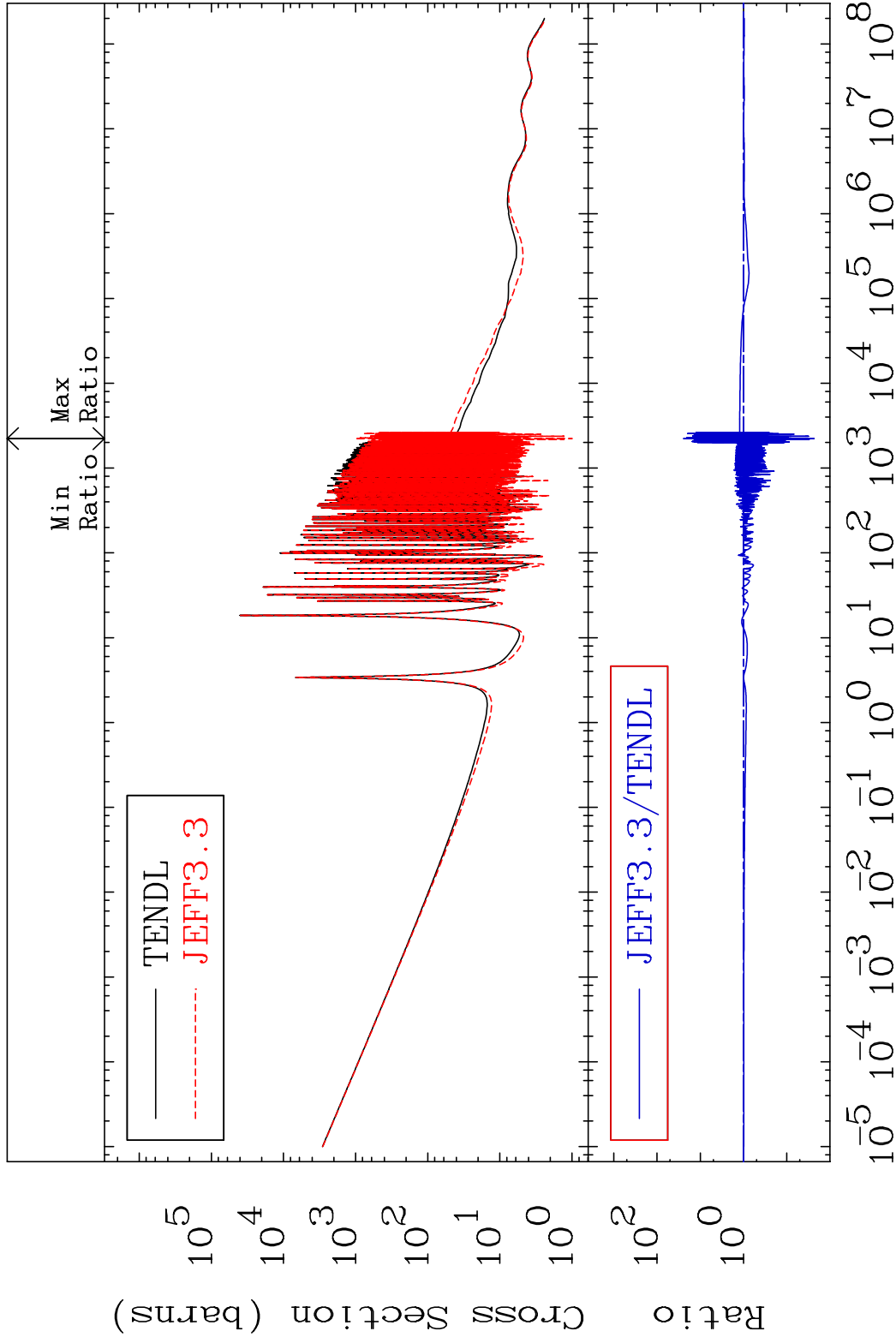
Press Mouse Button to Start

MAT 6234

Total

62-Sm-147

Cross Section -97.66 To 2329. %



1

Incident Energy (eV)

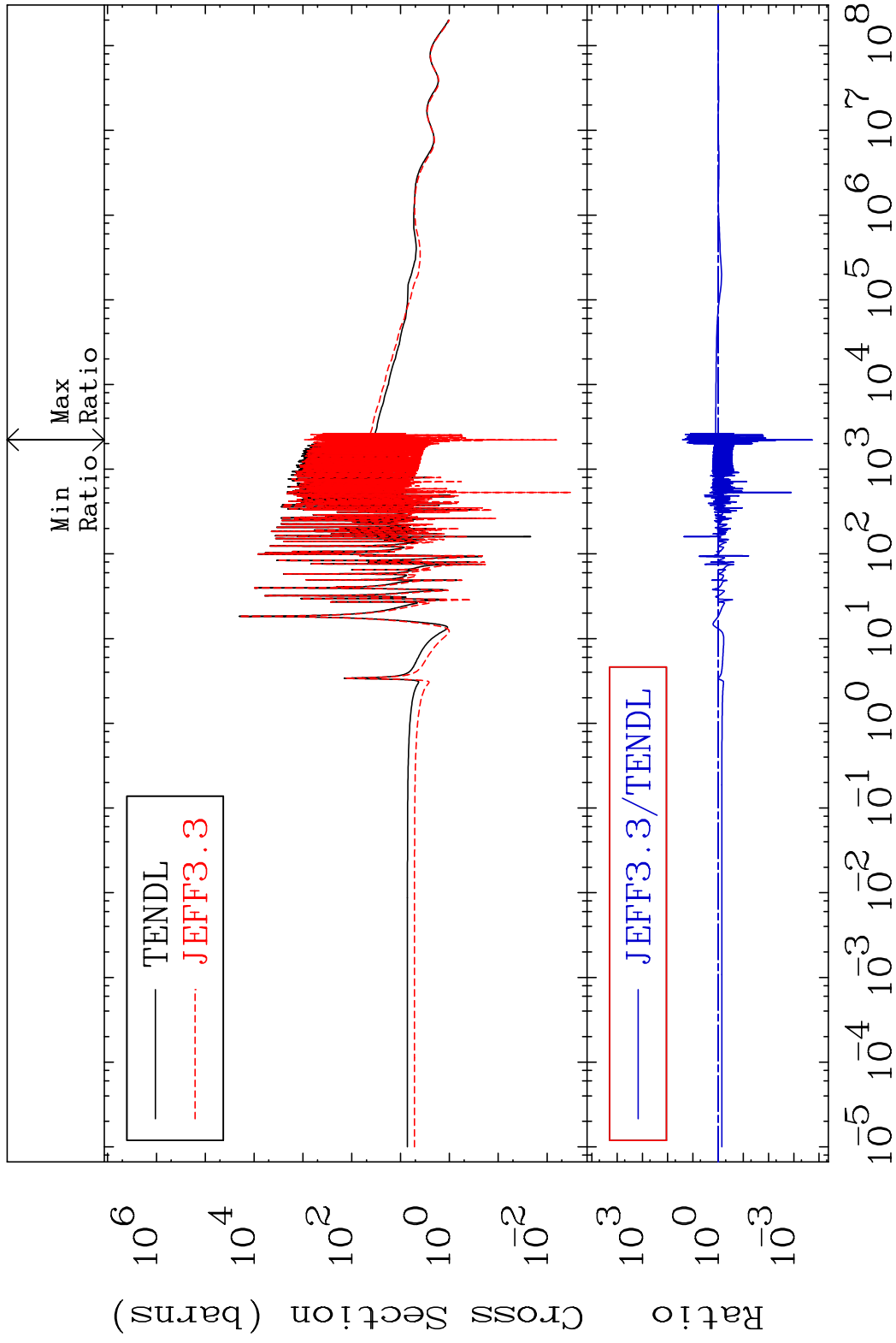
62-Sm-147

MAT 6234

Elastic

62-Sm-147

Cross Section -99.98 To 2507. %



2

Incident Energy (eV)

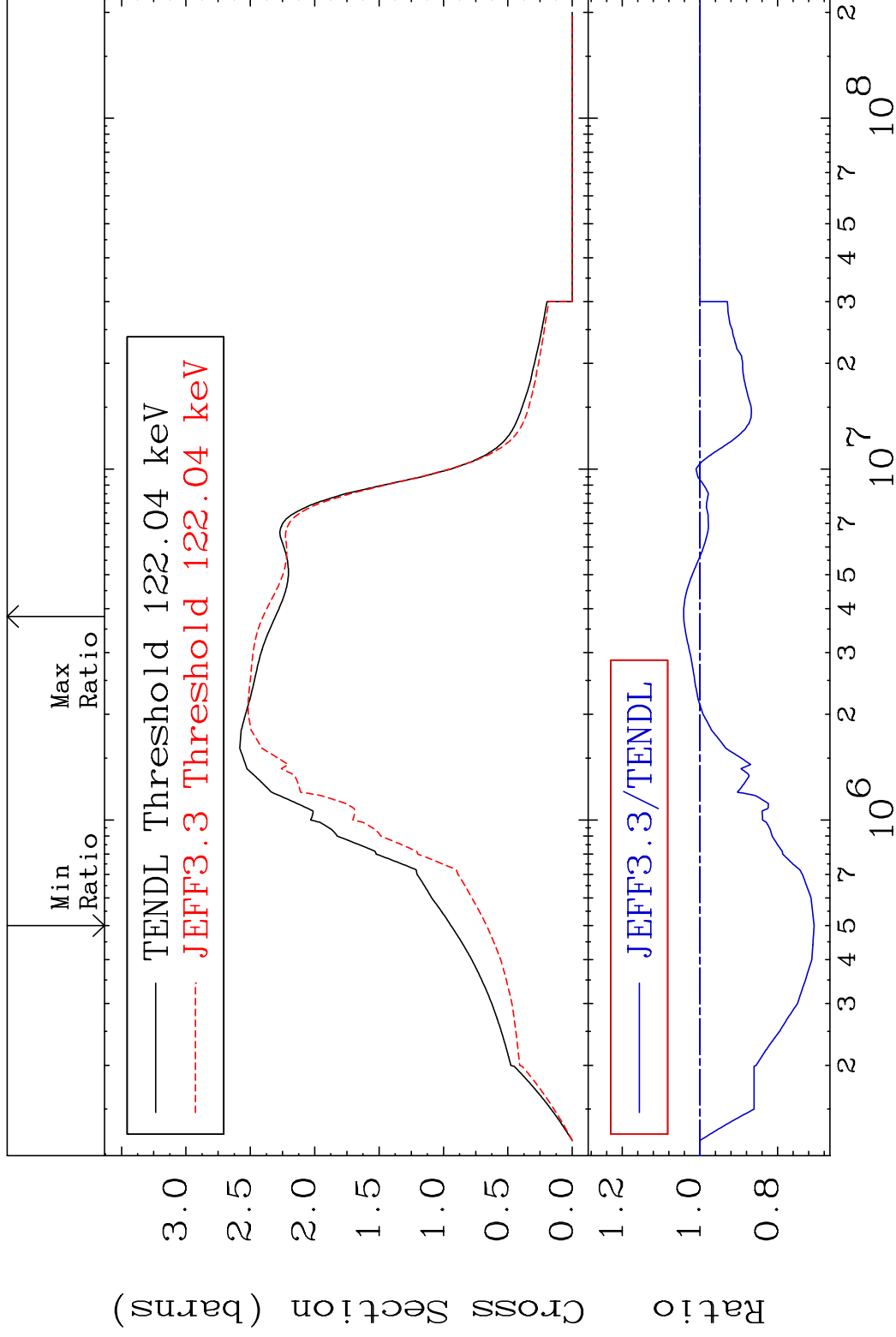
62-Sm-147

MAT 6234

Inelastic

62-Sm-147

Cross Section -29.38 To 4.181 %



3

Incident Energy (eV)

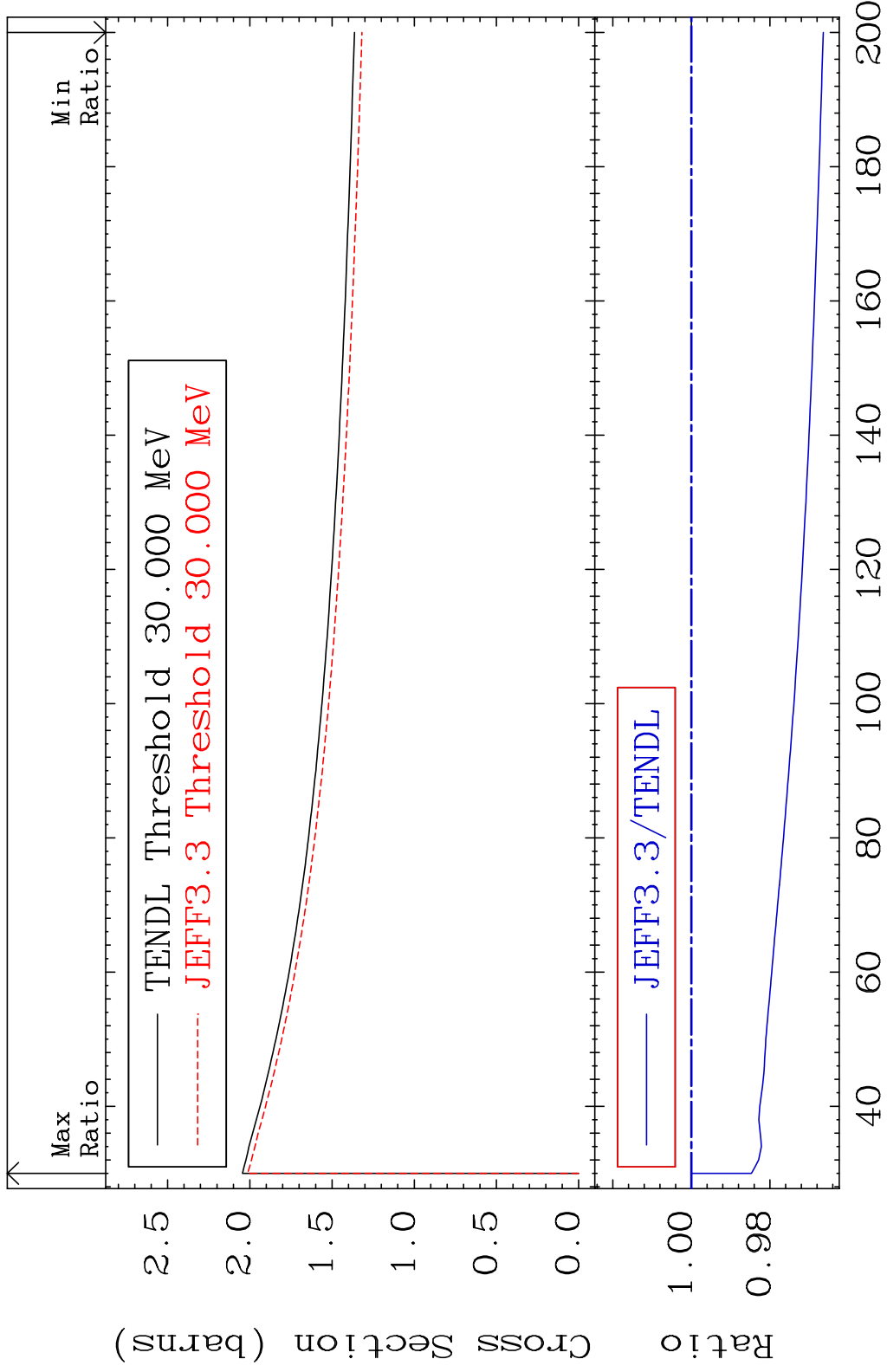
62-Sm-147

MAT 6234

(n, remainder)

62-Sm-147

Cross Section -3.358 To 0.000 %

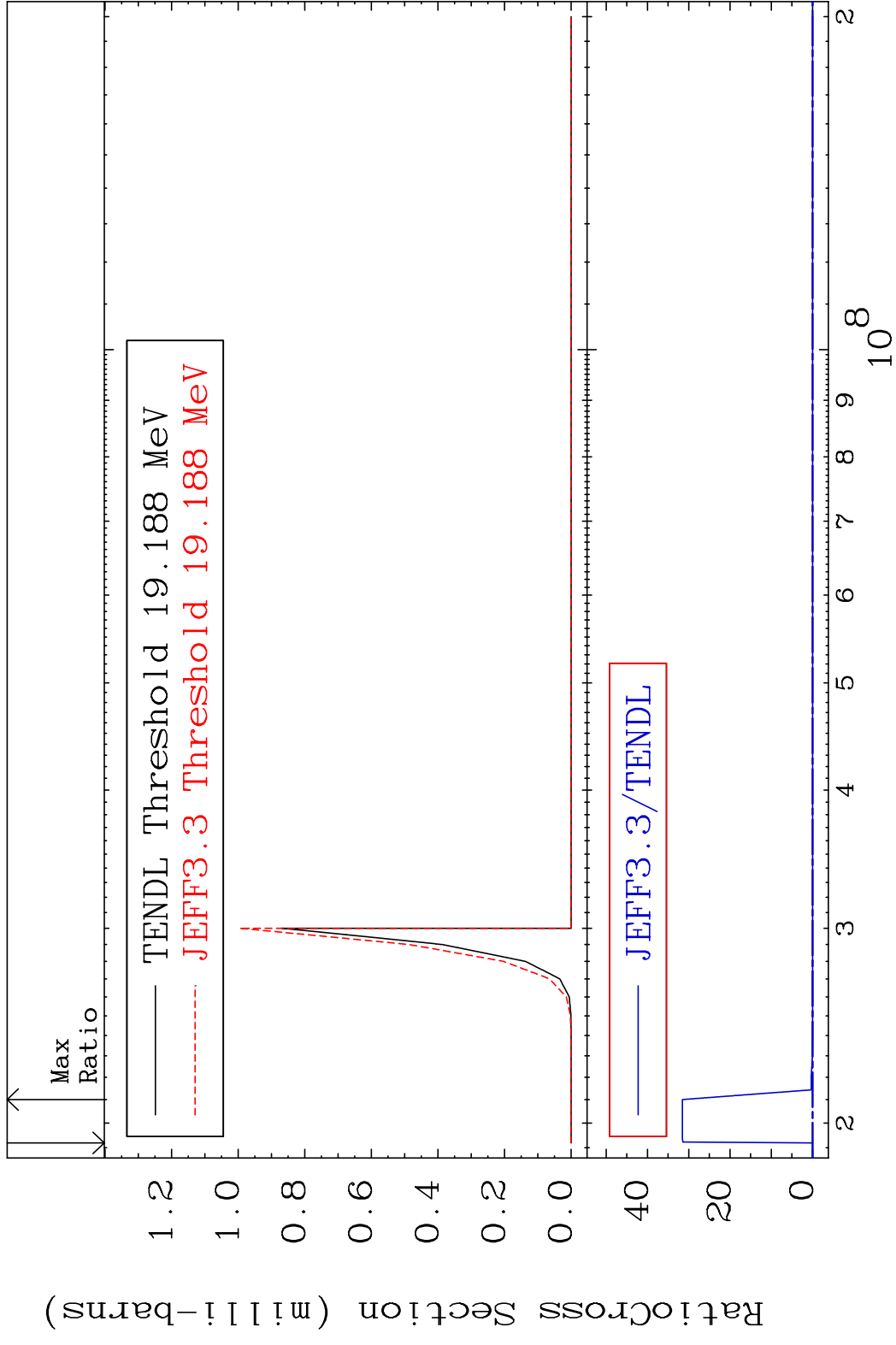


4

Incident Energy (MeV)

62-Sm-147

MAT 6234 (n,2n) d 62-Sm-147  
 Cross Section -100.0 To 9999. %



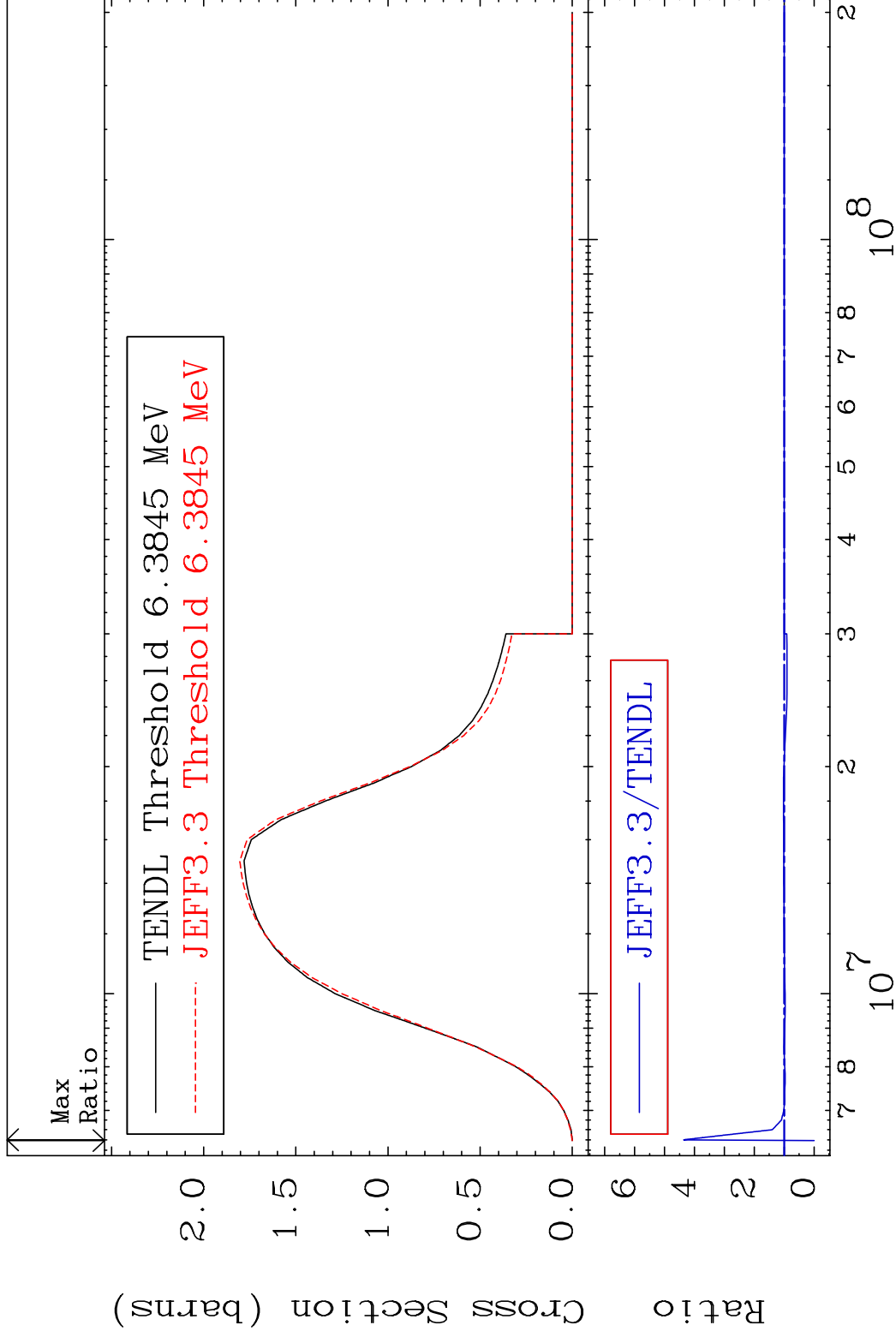
5 Incident Energy (eV) 62-Sm-147

MAT 6234

(n,2n)

62-Sm-147

Cross Section -100.0 To 336.1 %



6

Incident Energy (eV)

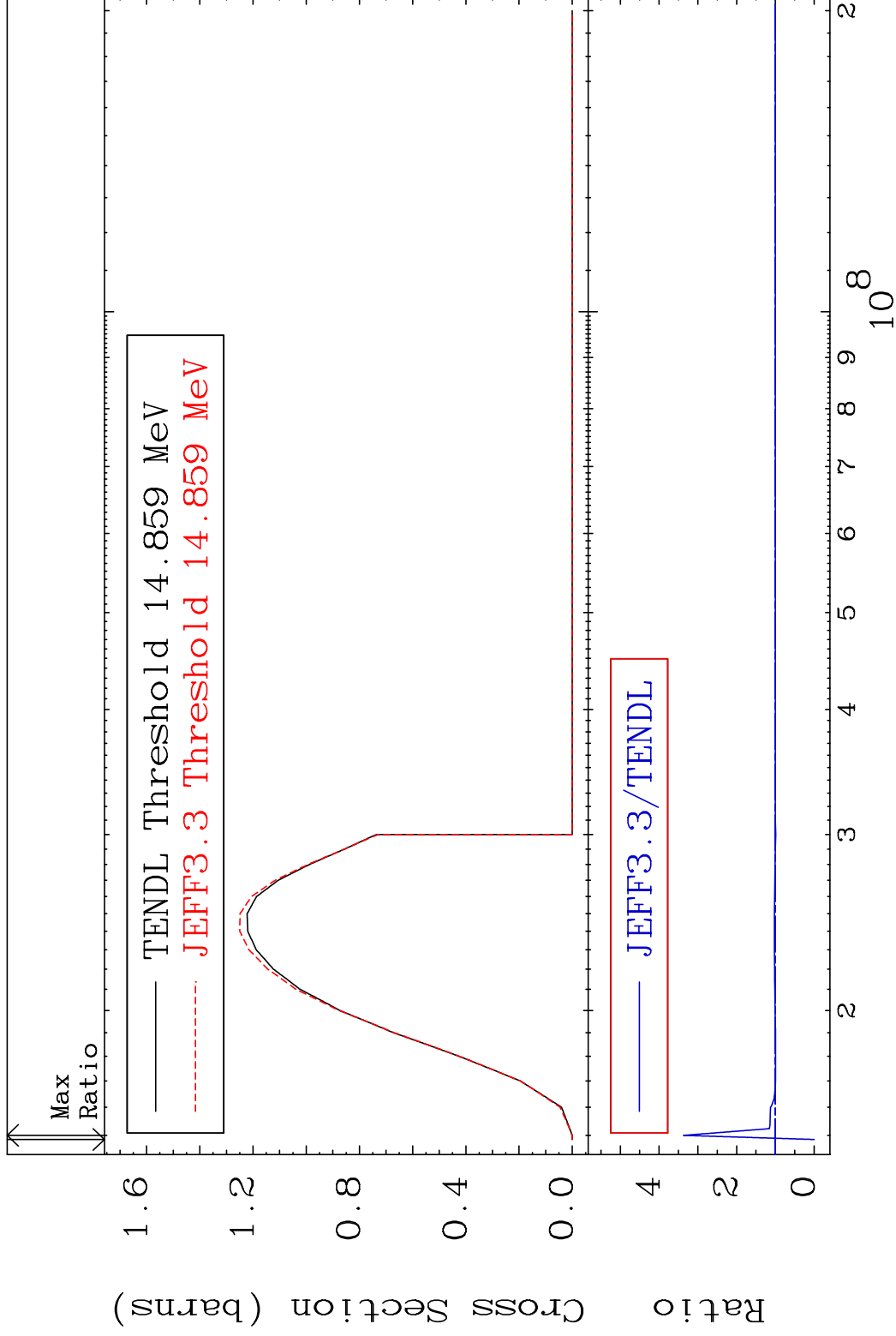
62-Sm-147

MAT 6234

(n,3n)

62-Sm-147

Cross Section -100.0 To 236.6 %



7

Incident Energy (eV)

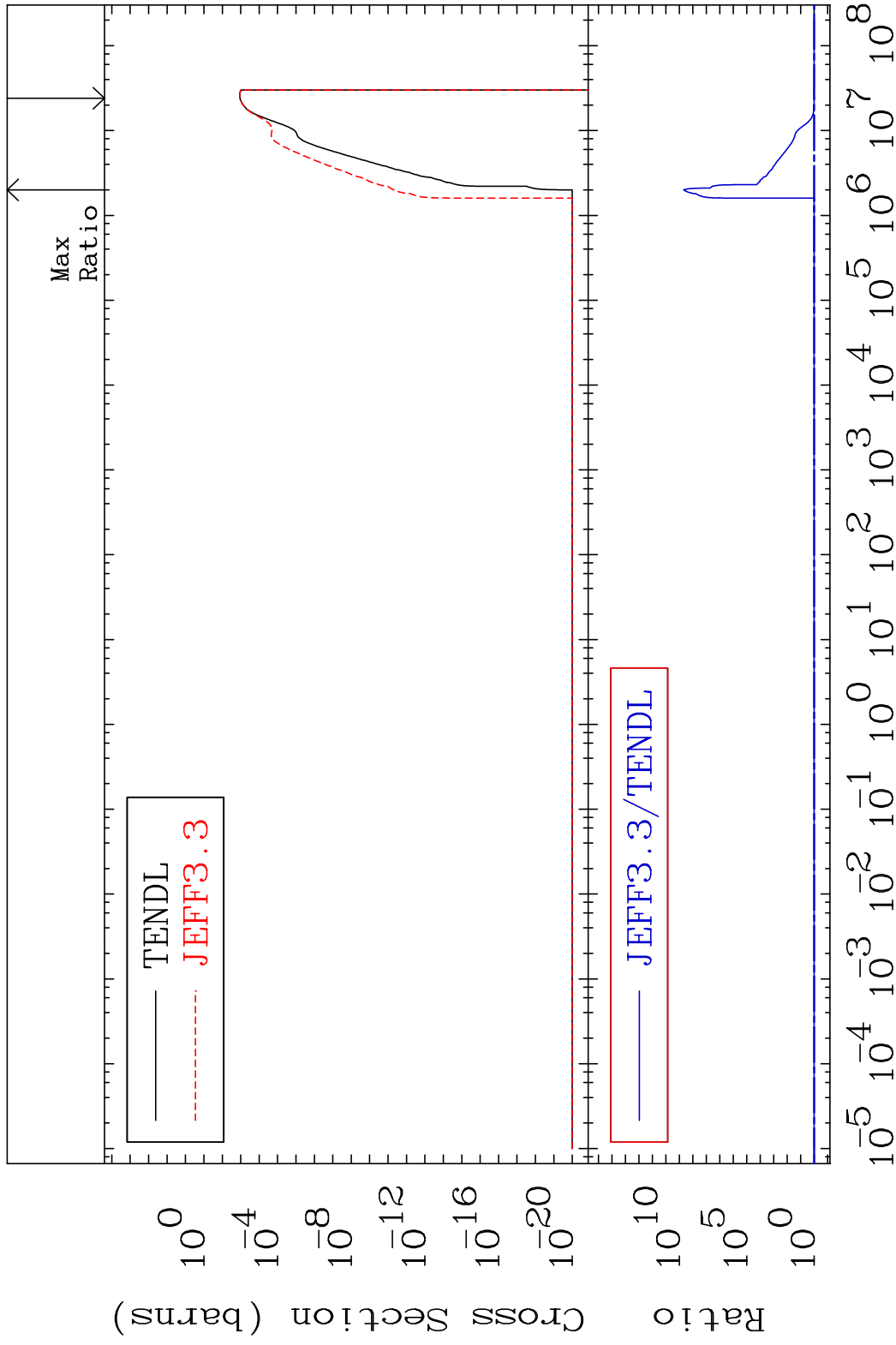
62-Sm-147

MAT 6234

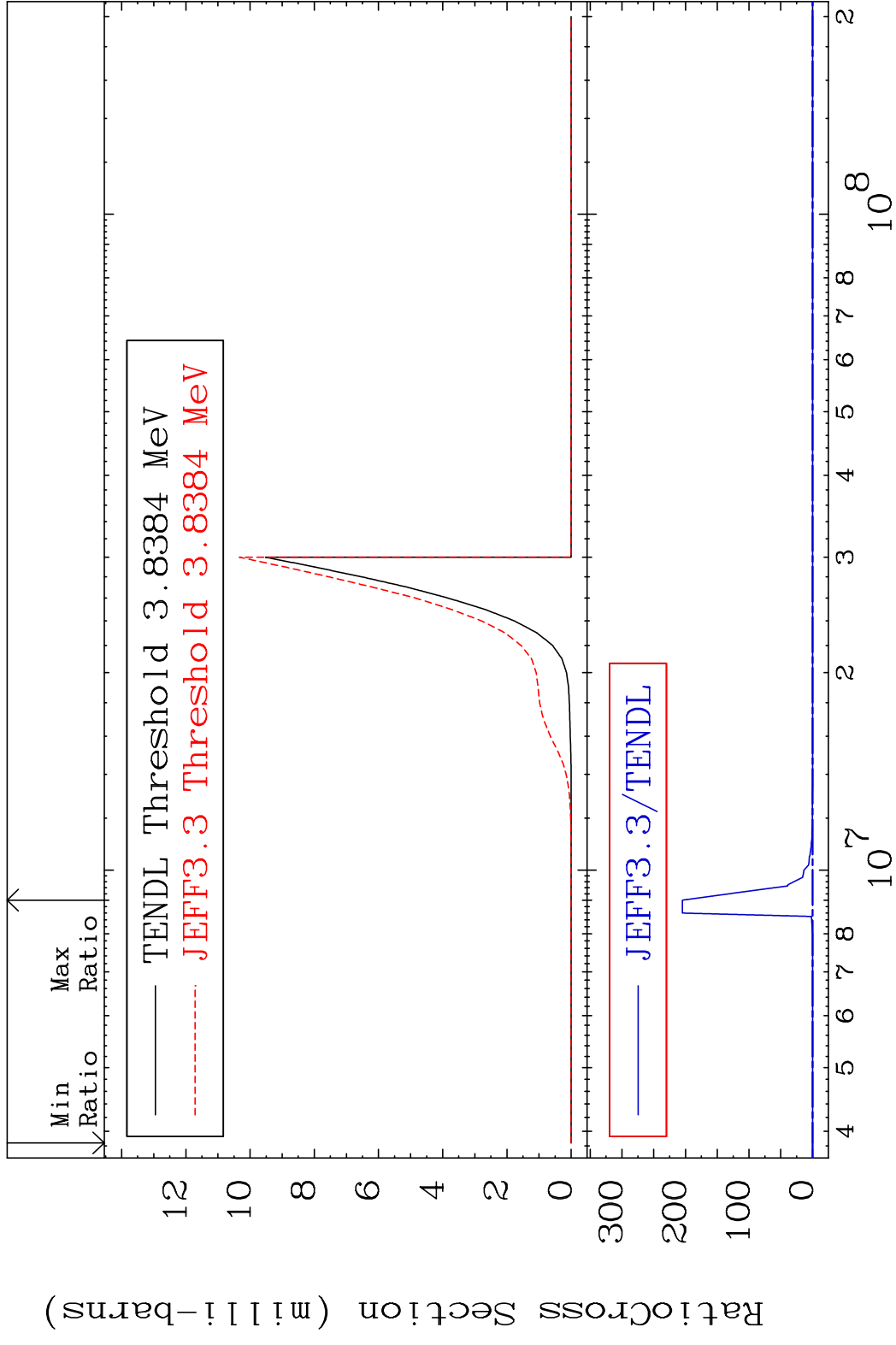
(n, n')  $\alpha$

62-Sm-147

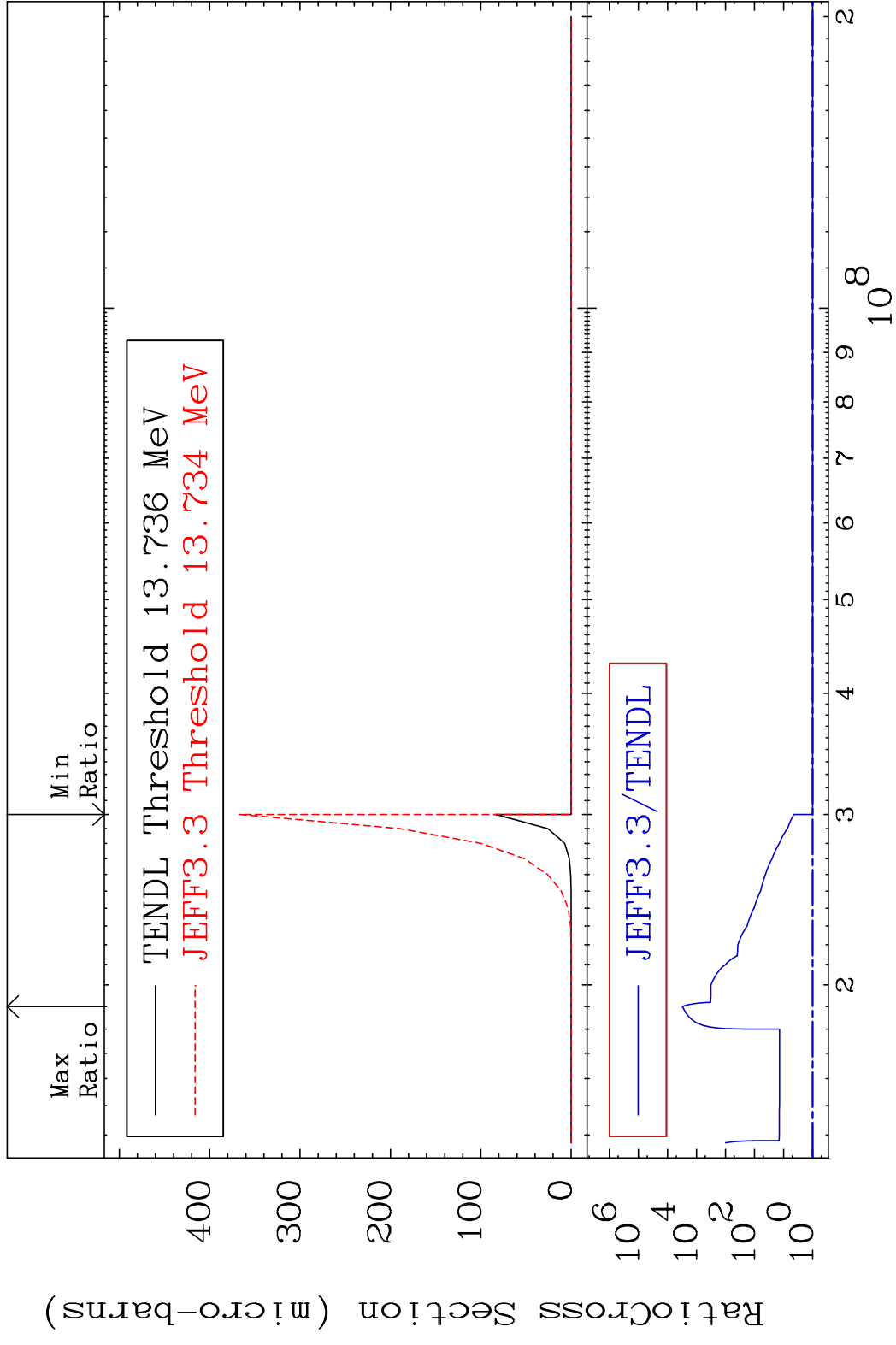
Cross Section -0.788 To 9999. %



MAT 6234 (n,2n)  $\alpha$  62-Sm-147  
 Cross Section -100.0 To 9999. %

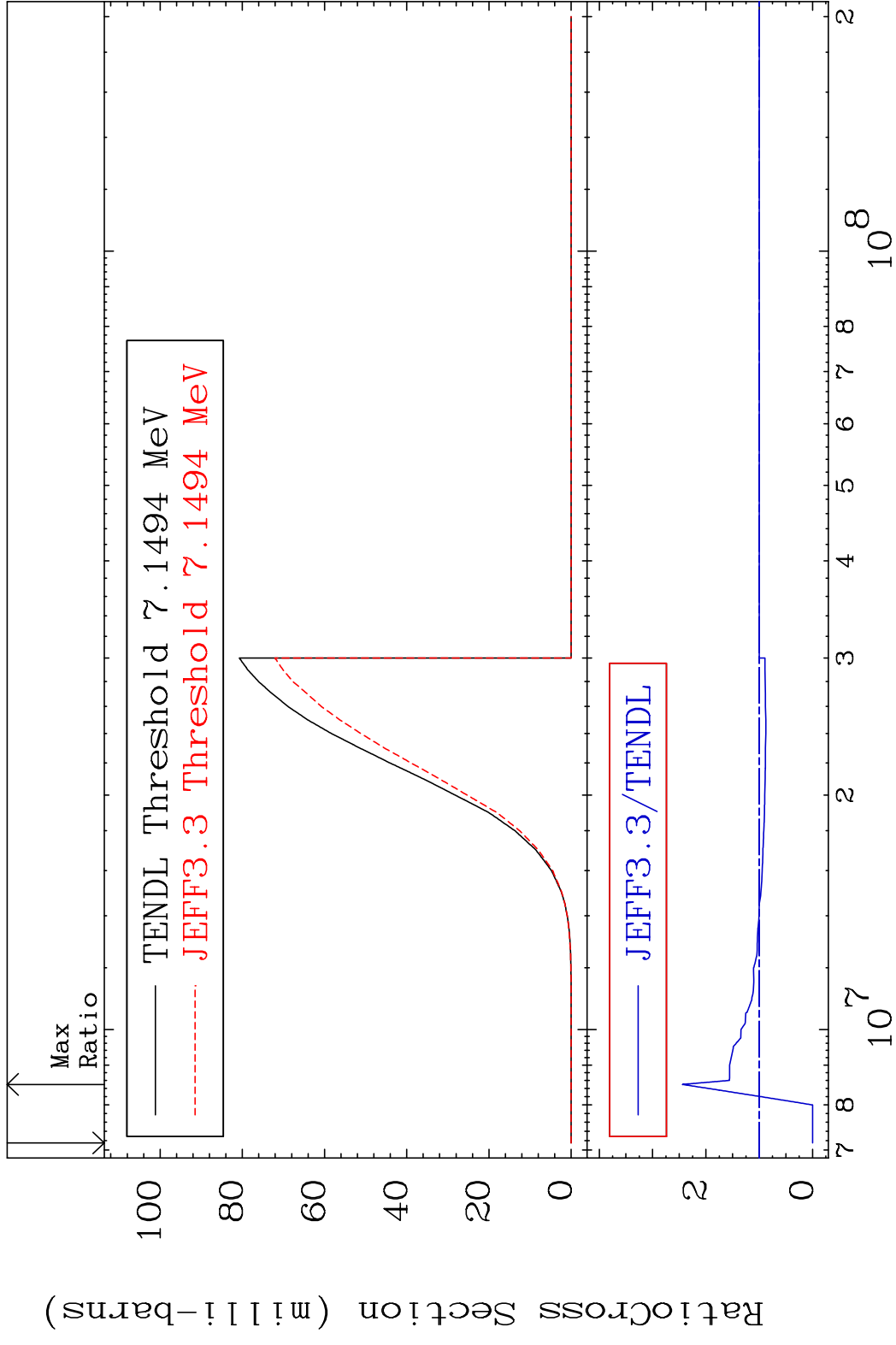


MAT 6234 (n,3n)  $\alpha$  62-Sm-147  
 Cross Section 0.000 To 9999. %



10 Incident Energy (eV) 62-Sm-147

MAT 6234 (n, n') p 62-Sm-147  
 Cross Section -100.0 To 144.2 %

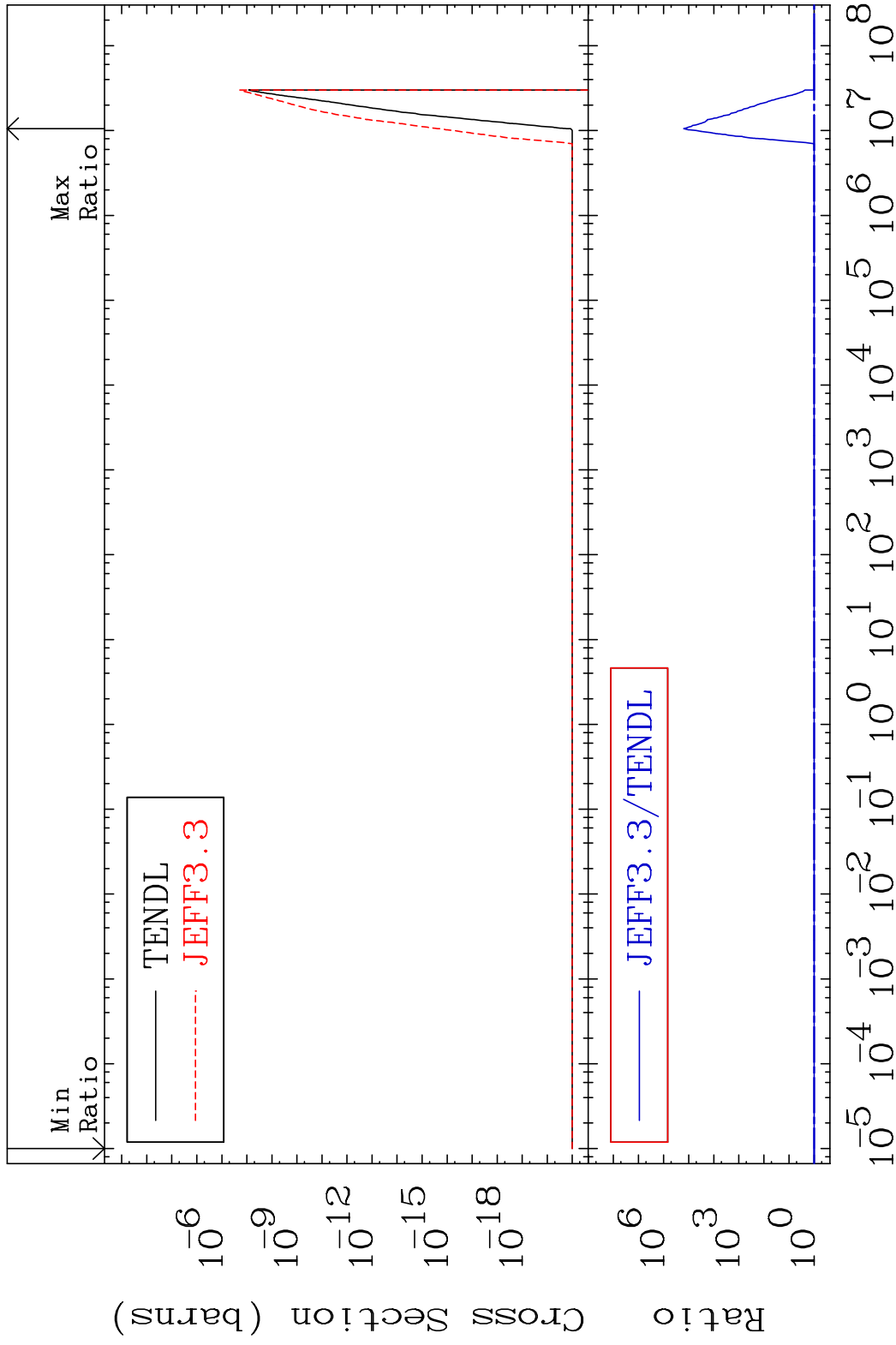


MAT 6234

(n, n') 2α

62-Sm-147

Cross Section 0.000 To 9999. %



12

Incident Energy (eV)

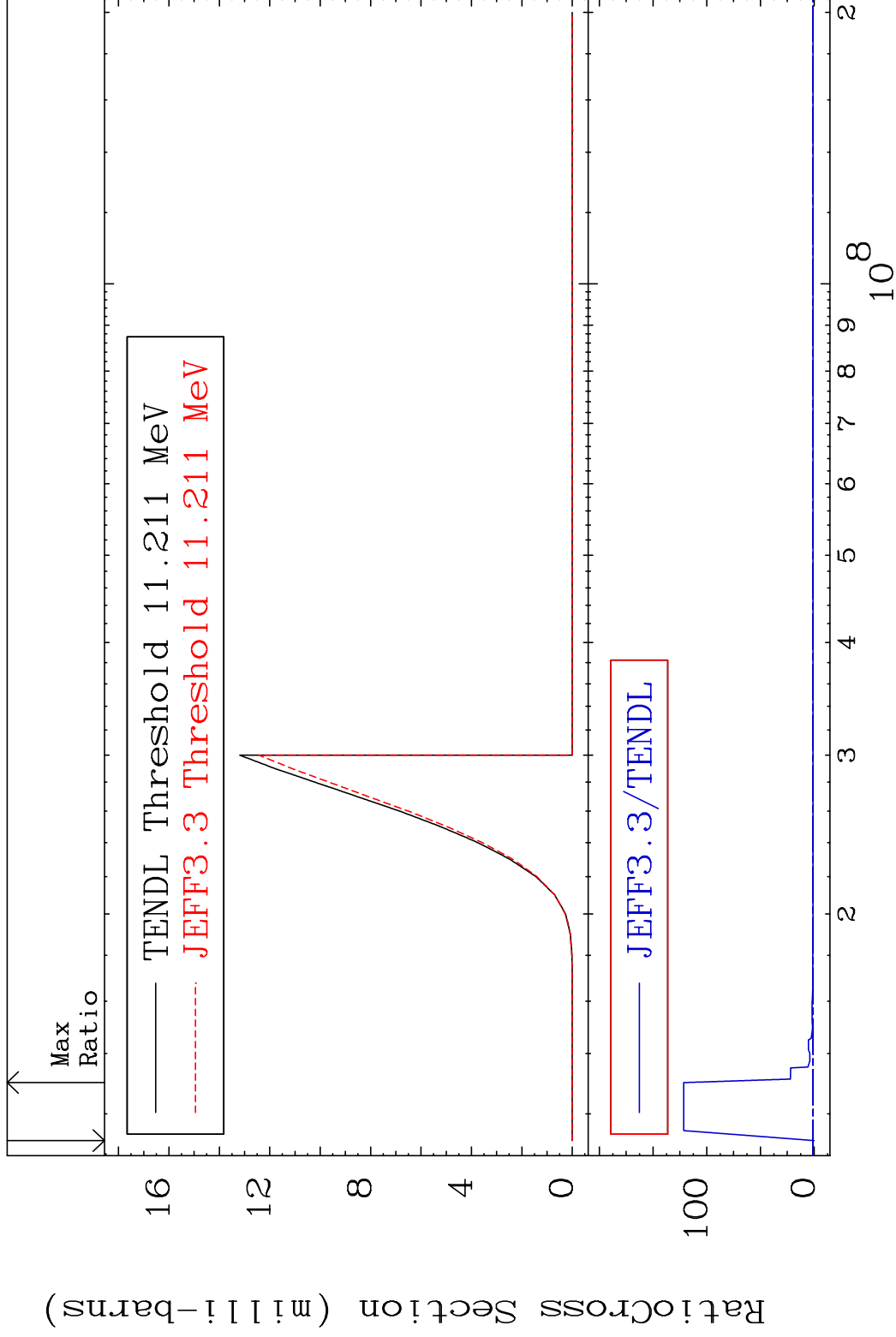
62-Sm-147

MAT 6234

(n, n') d

62-Sm-147

Cross Section -100.0 To 9999. %

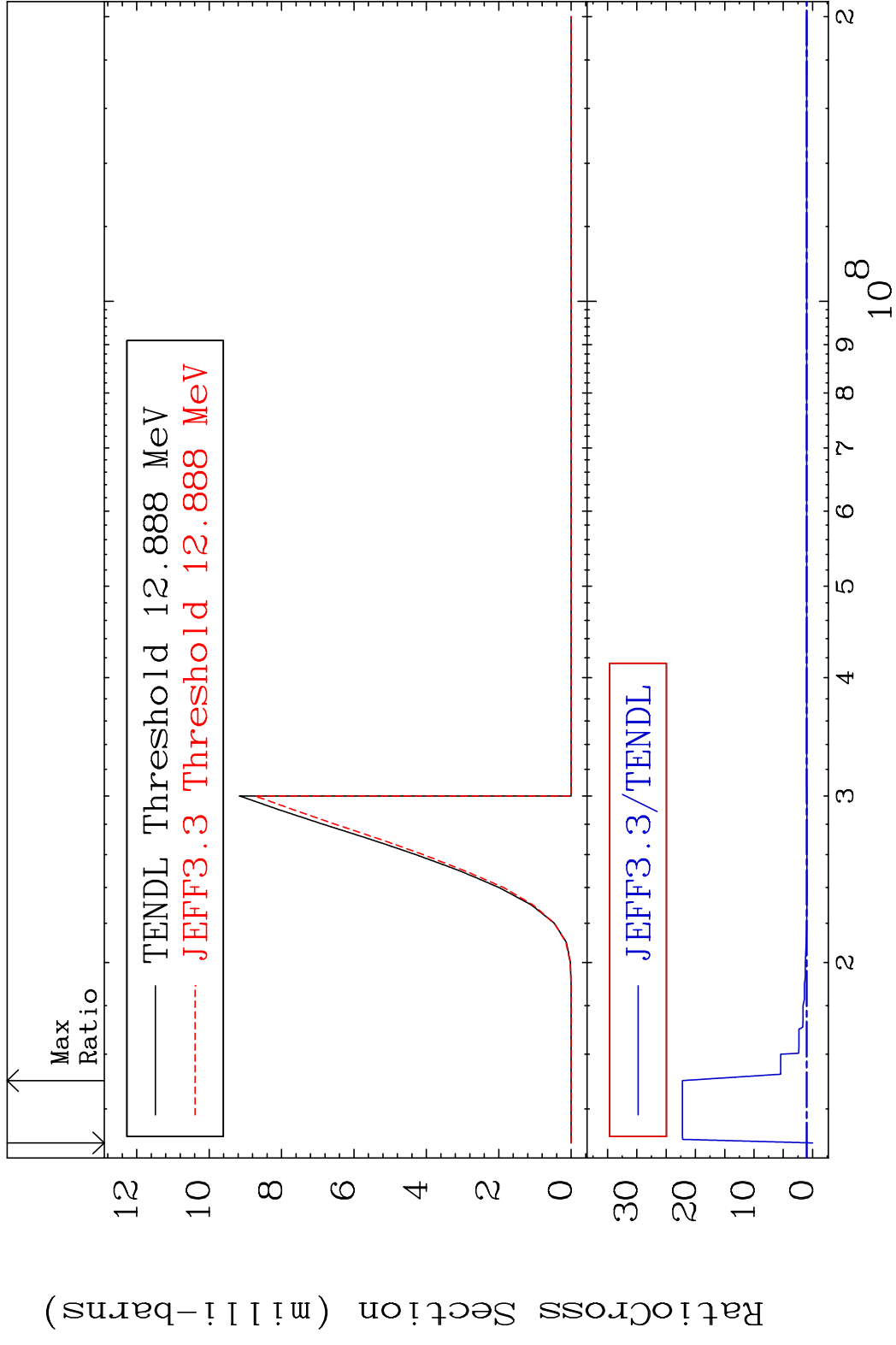


13

Incident Energy (eV)

62-Sm-147

MAT 6234 (n, n') t 62-Sm-147  
 Cross Section -100.0 To 2123. %

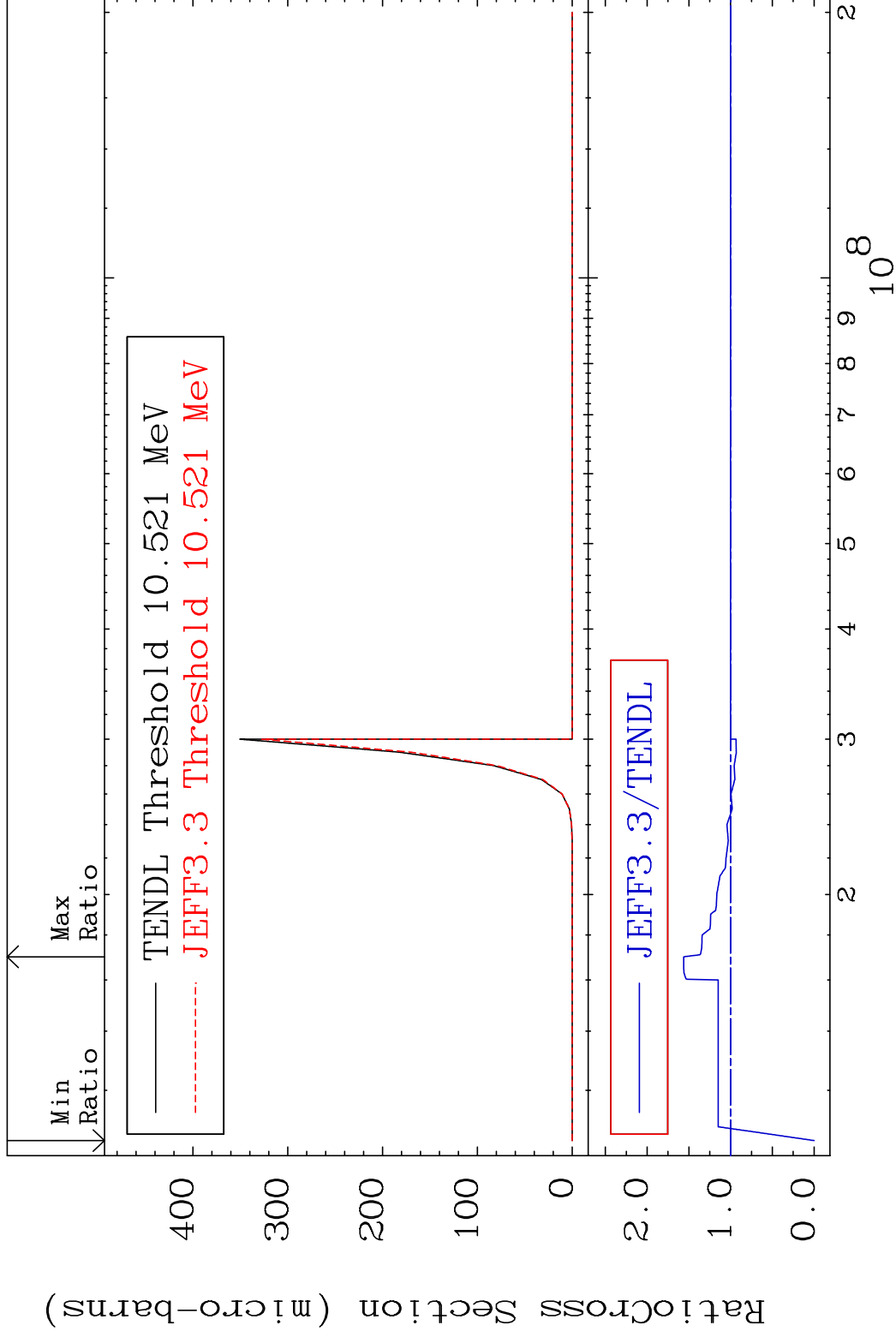


MAT 6234

(n,n') He-3

62-Sm-147

Cross Section -100.0 To 56.28 %

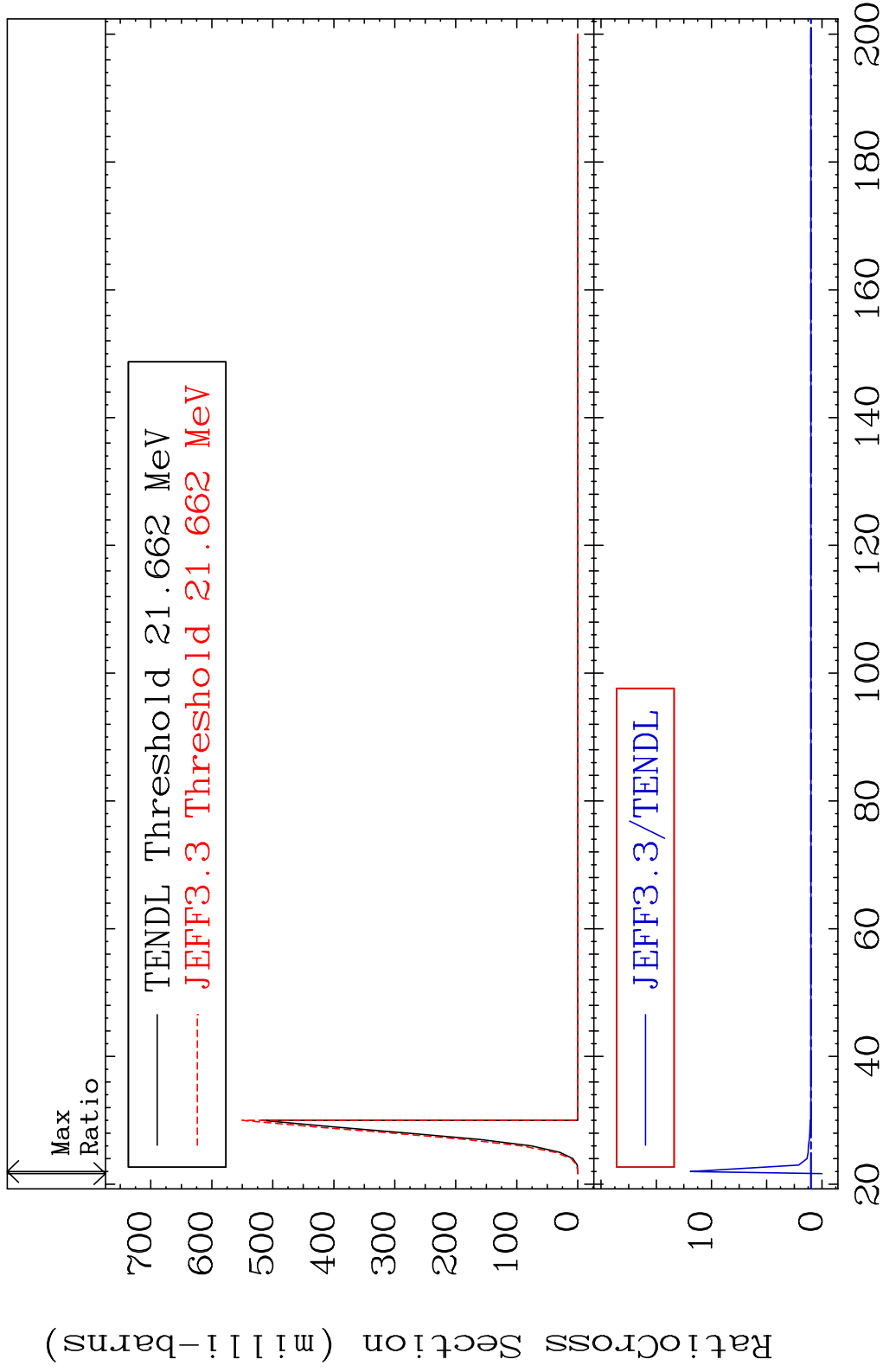


MAT 6234

(n, 4n)

62-Sm-147

Cross Section -100.0 To 1092. %

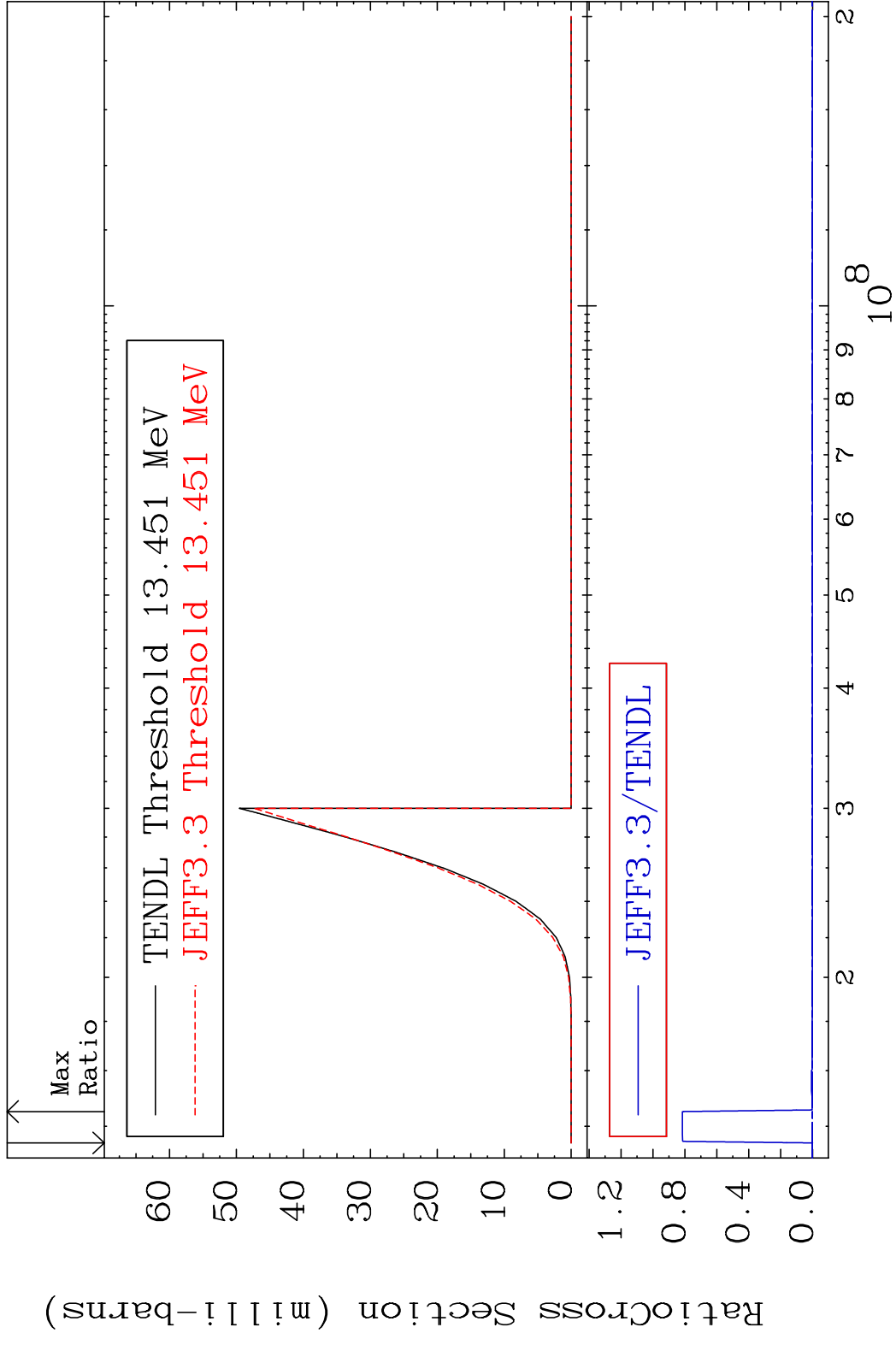


16

Incident Energy (MeV)

62-Sm-147

MAT 6234 (n,2n) p 62-Sm-147  
 Cross Section -100.0 To 9999. %

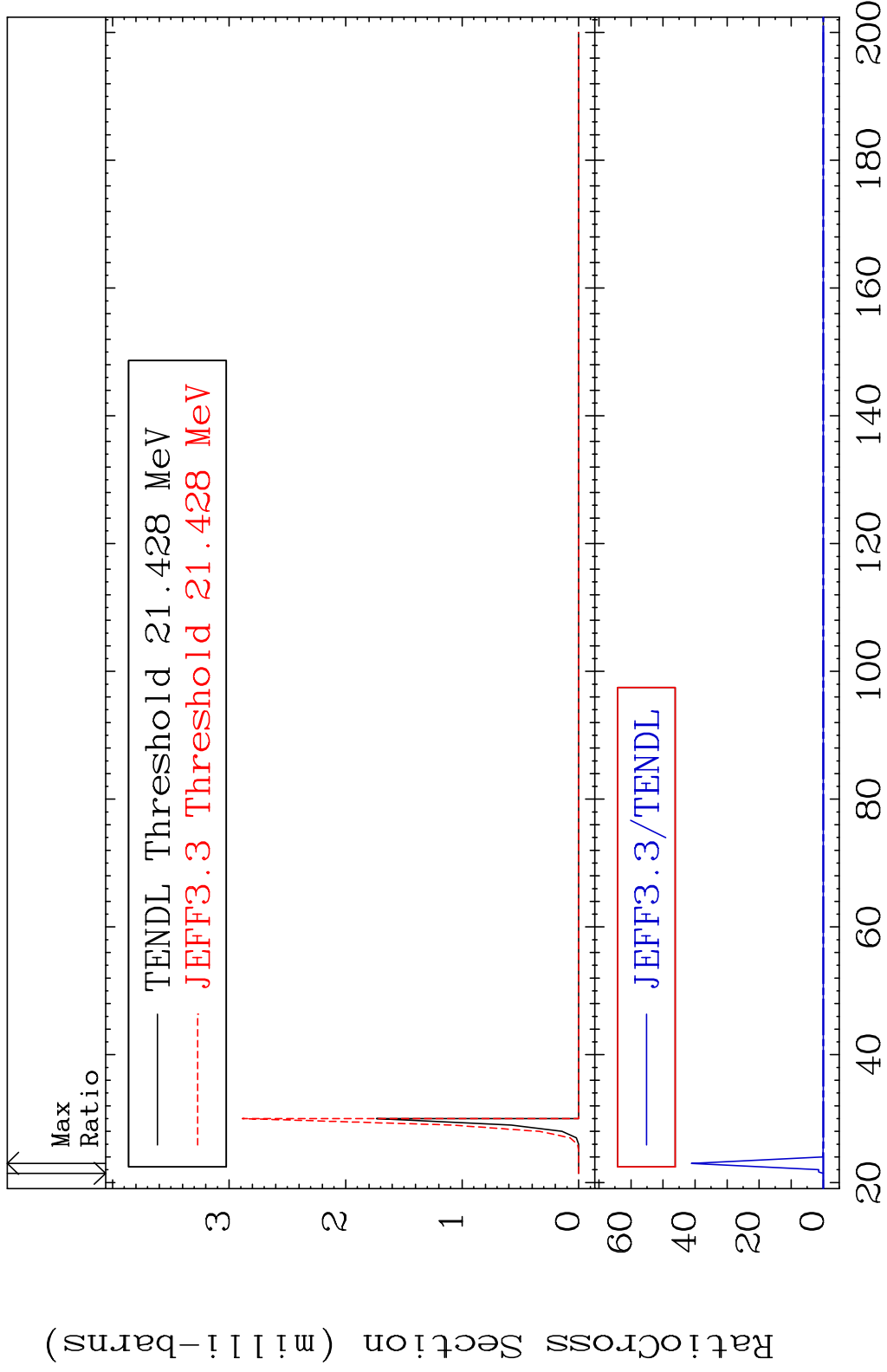


MAT 6234

(n,3n) p

62-Sm-147

Cross Section -100.0 To 9999. %



18

Incident Energy (MeV)

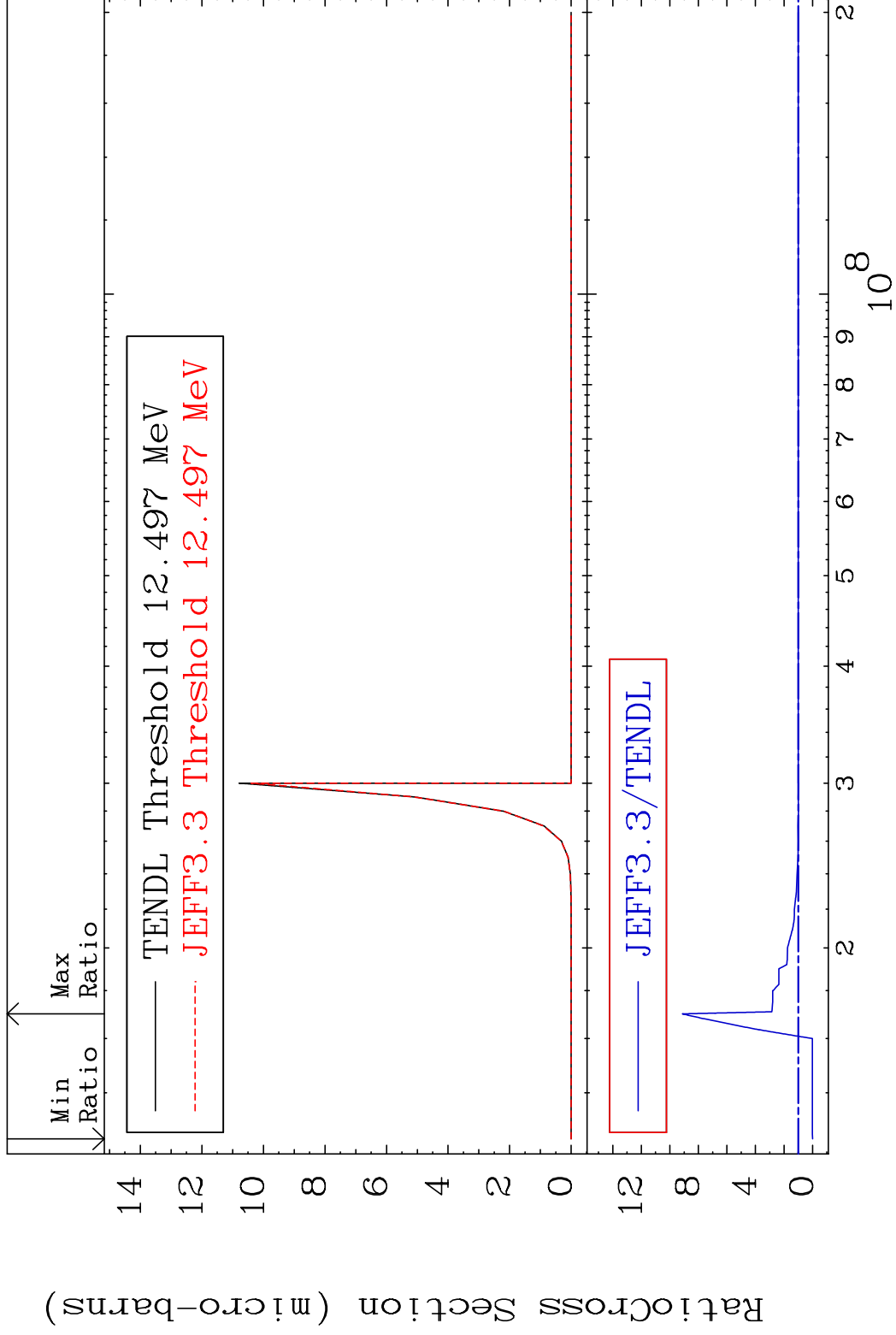
62-Sm-147

MAT 6234

(n,2n) p

62-Sm-147

Cross Section -100.0 To 812.3 %



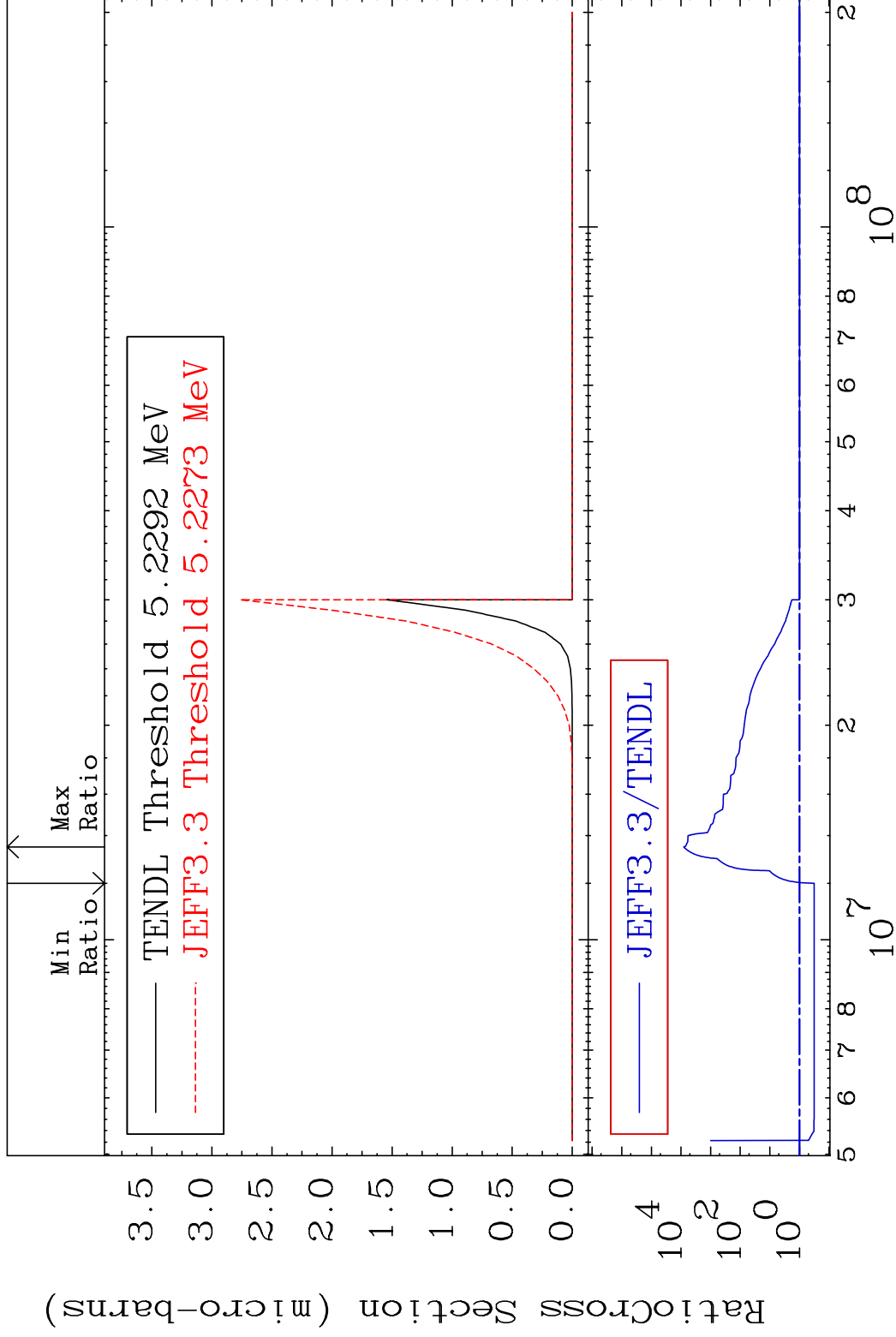
19

Incident Energy (eV)

62-Sm-147

MAT 6234

(n,n') p  $\alpha$  62-Sm-147  
Cross Section -68.04 To 9999. %

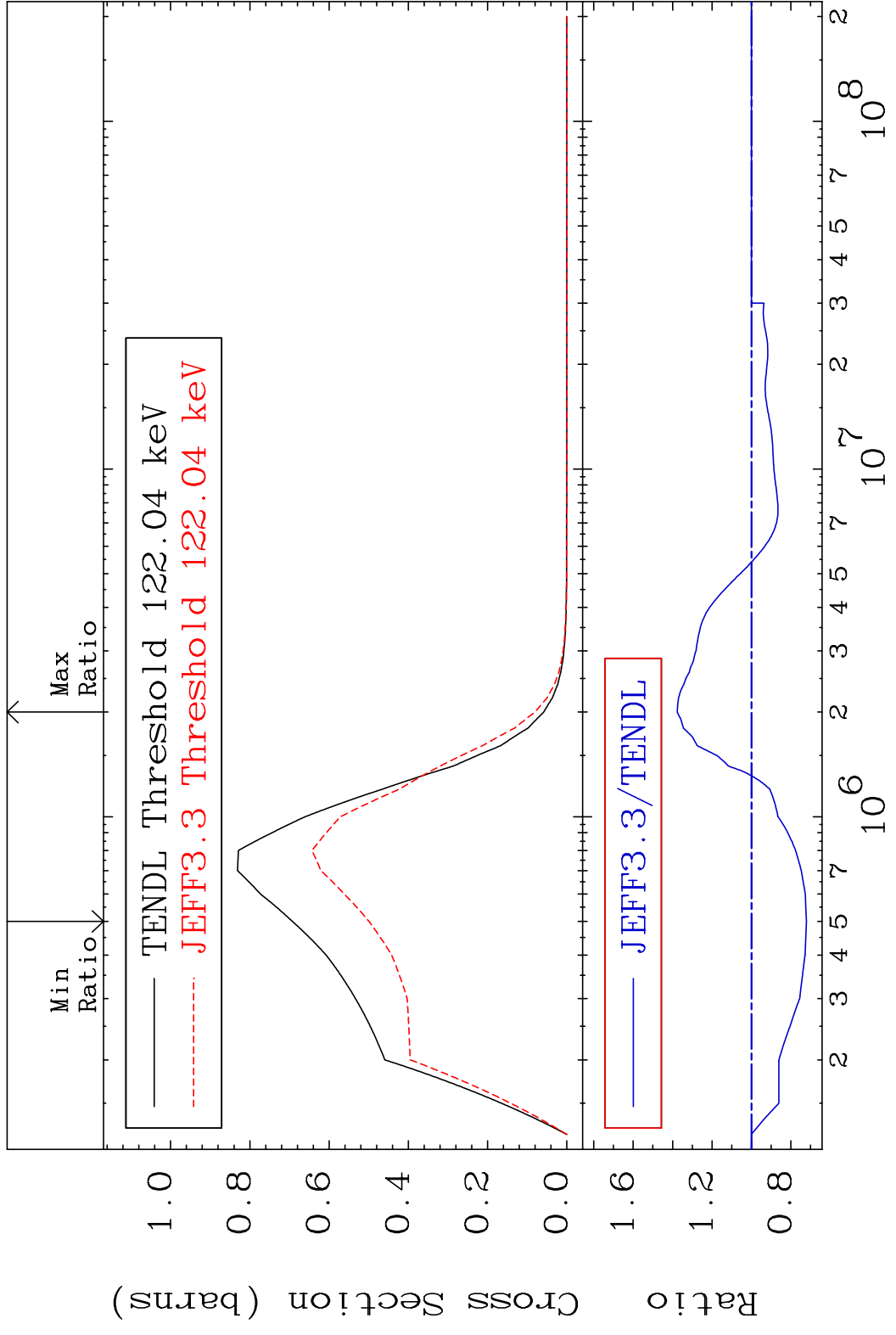


20

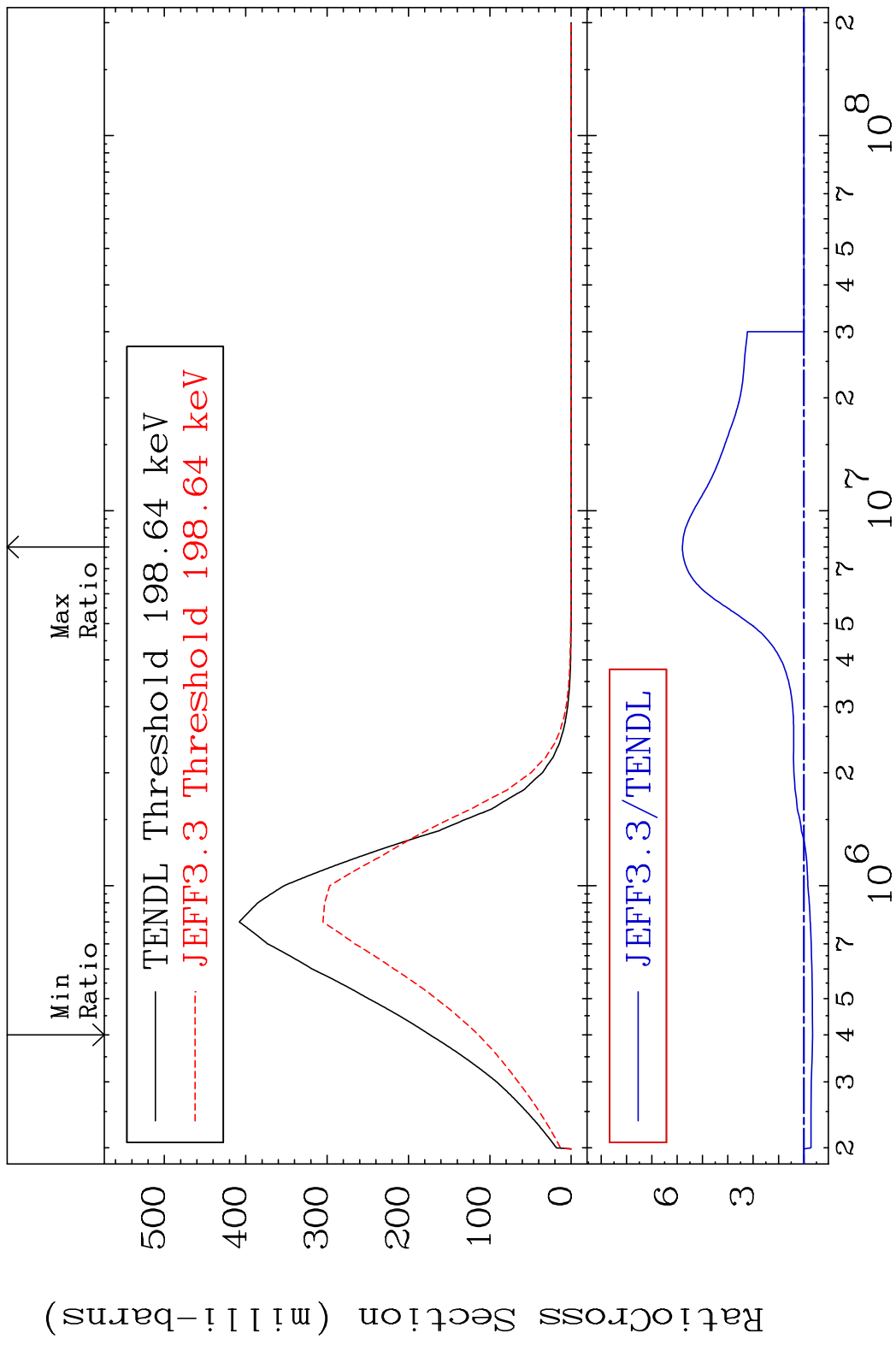
Incident Energy (eV)

62-Sm-147

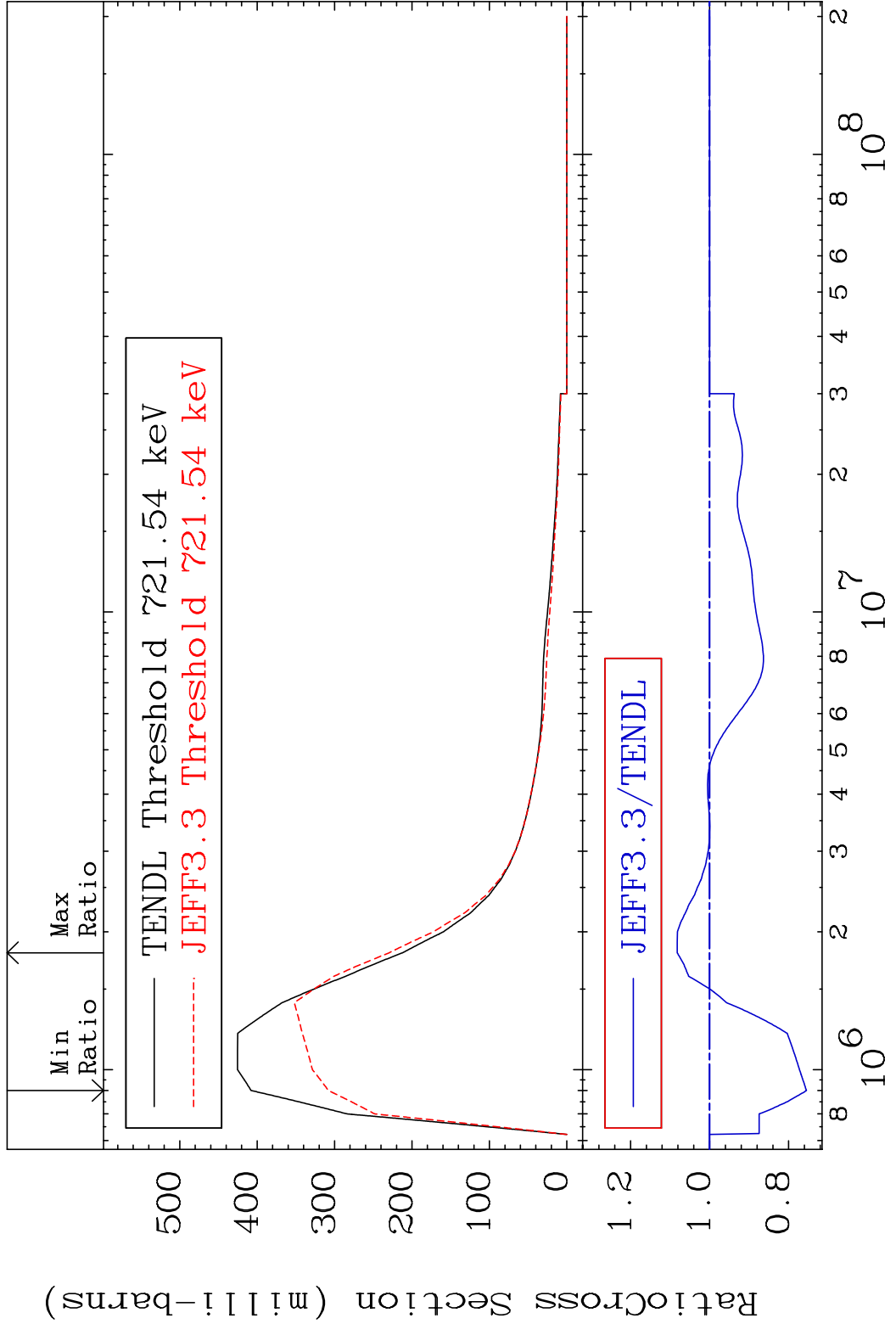
MAT 6234 MT= 51 (n, n') Level 62-Sm-147  
 Cross Section -27.91 To 37.67 %



MAT 6234 MT= 52 (n, n') Level 62-Sm-147  
 Cross Section -34.33 To 479.6 %

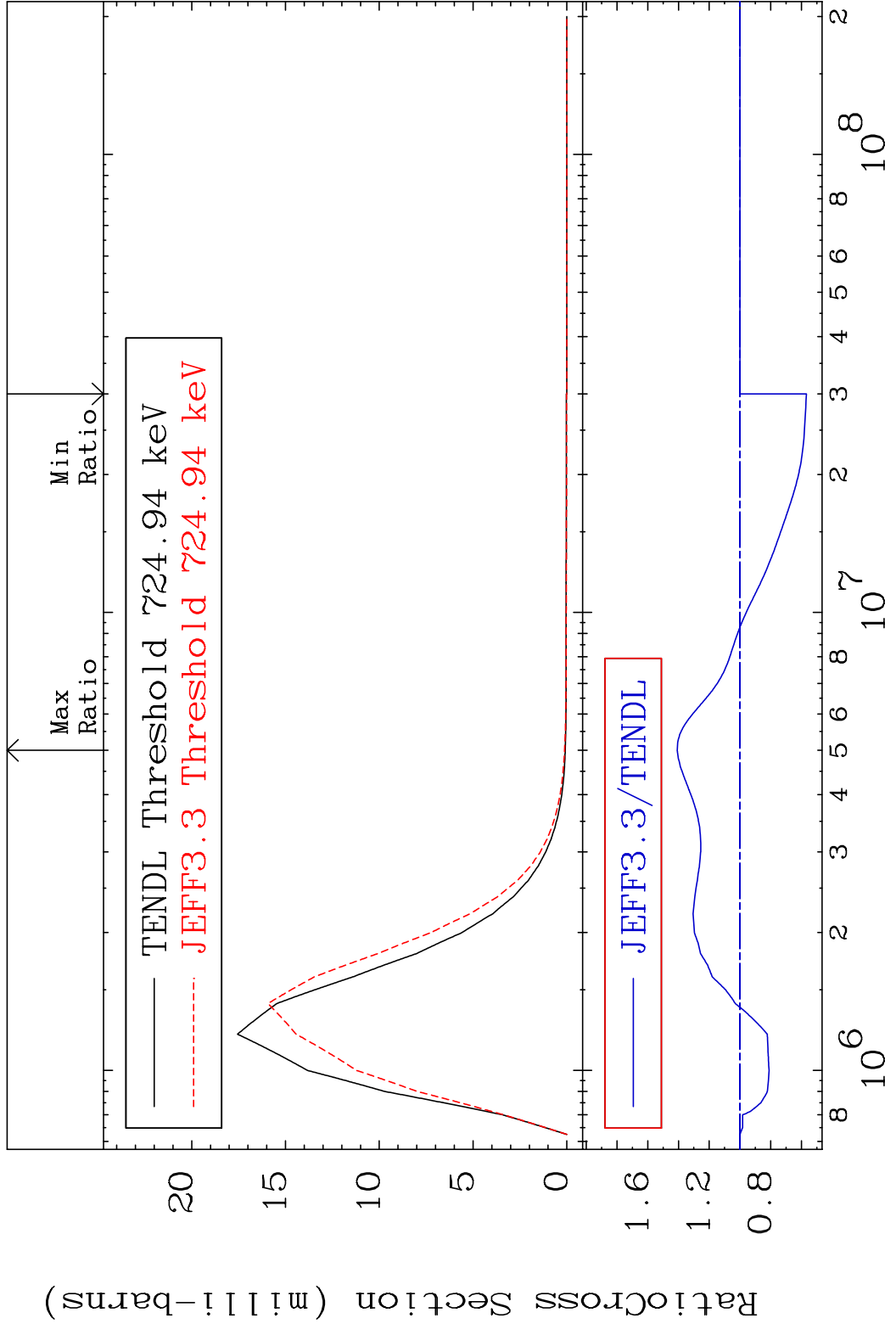


MAT 6234 MT= 53 (n,n') Level 62-Sm-147  
 Cross Section -24.48 To 8.200 %

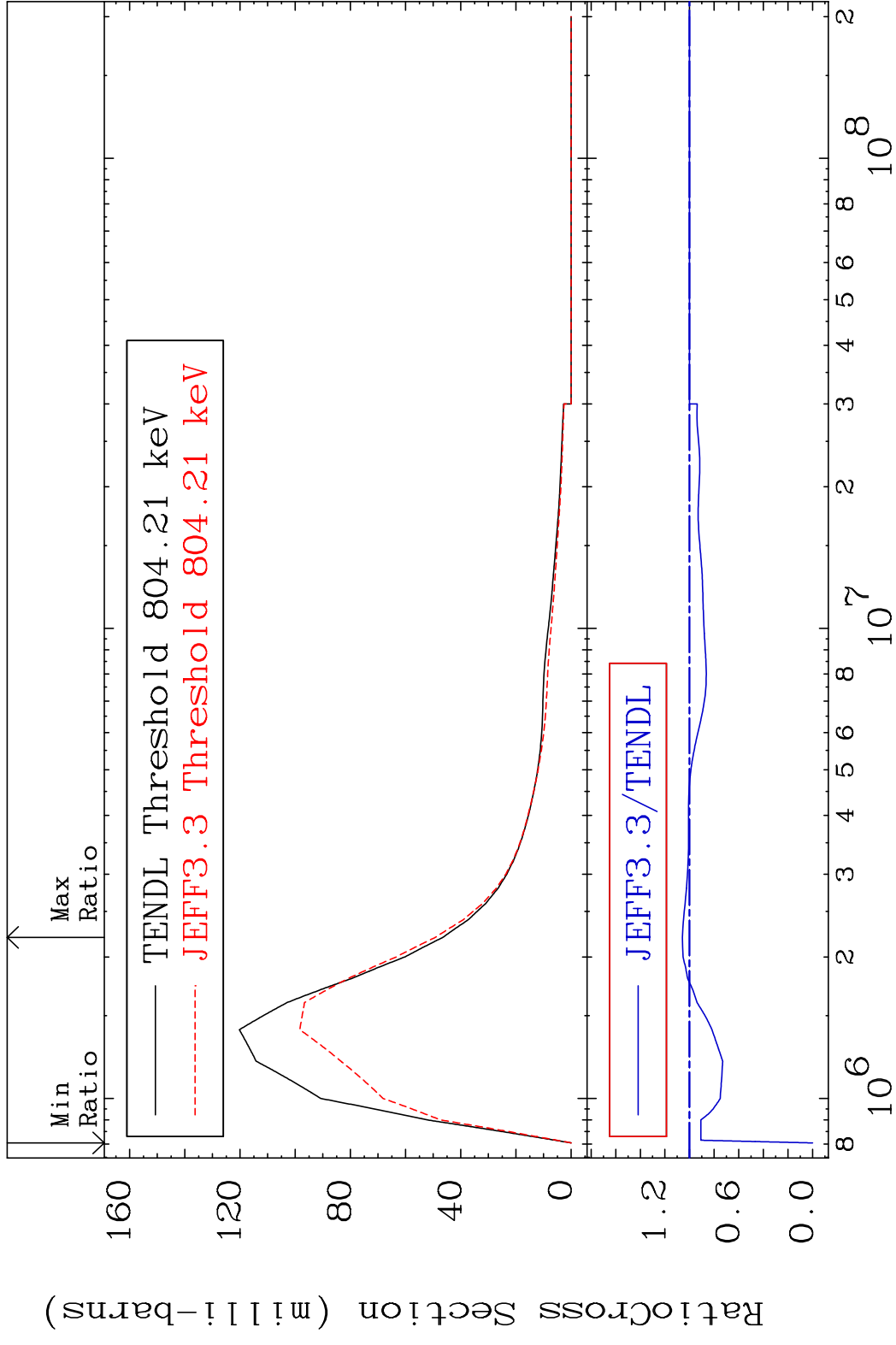


23 Incident Energy (eV) 62-Sm-147

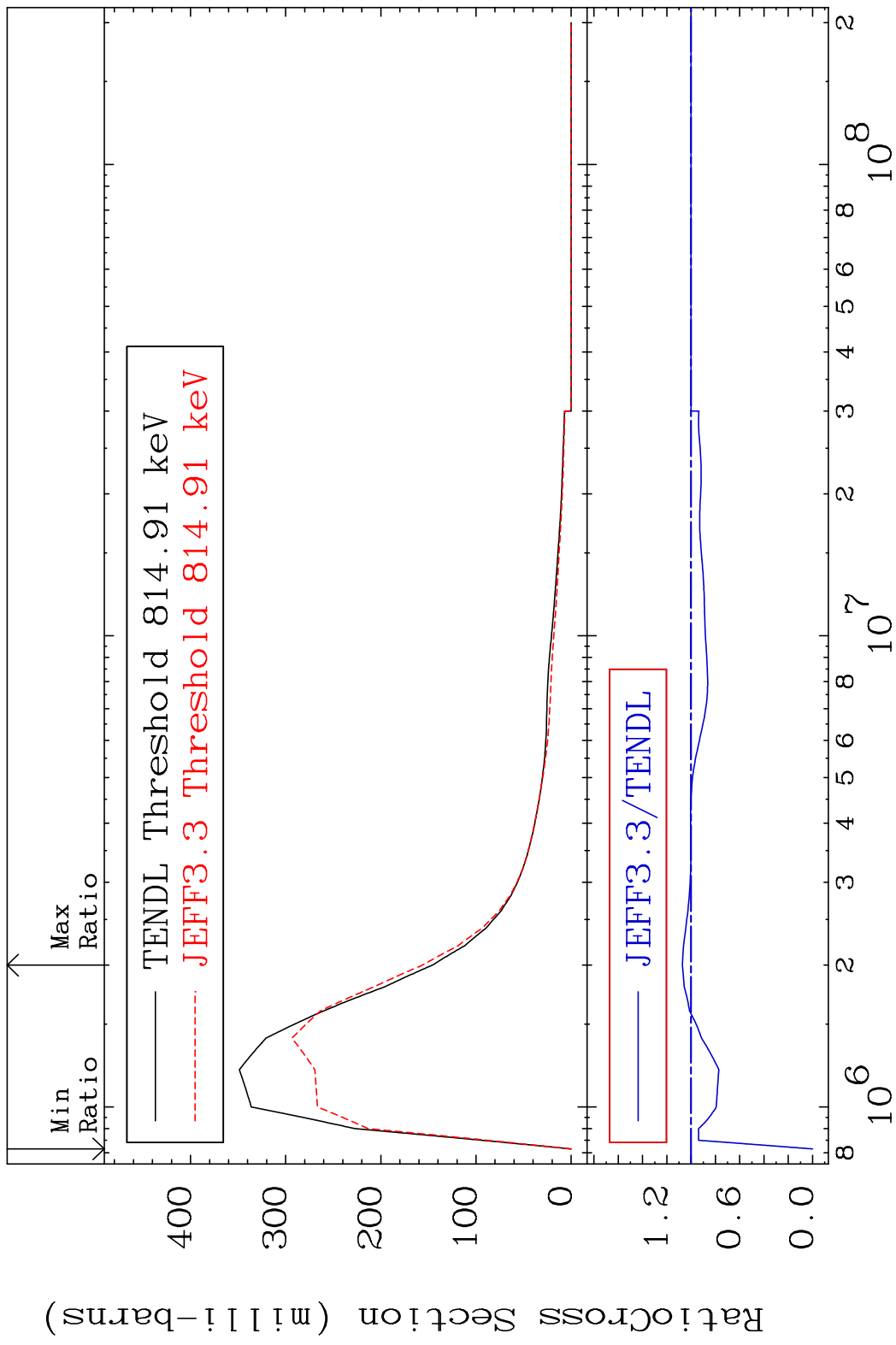
MAT 6234 MT= 54 (n,n') Level 62-Sm-147  
 Cross Section -43.23 To 40.84 %



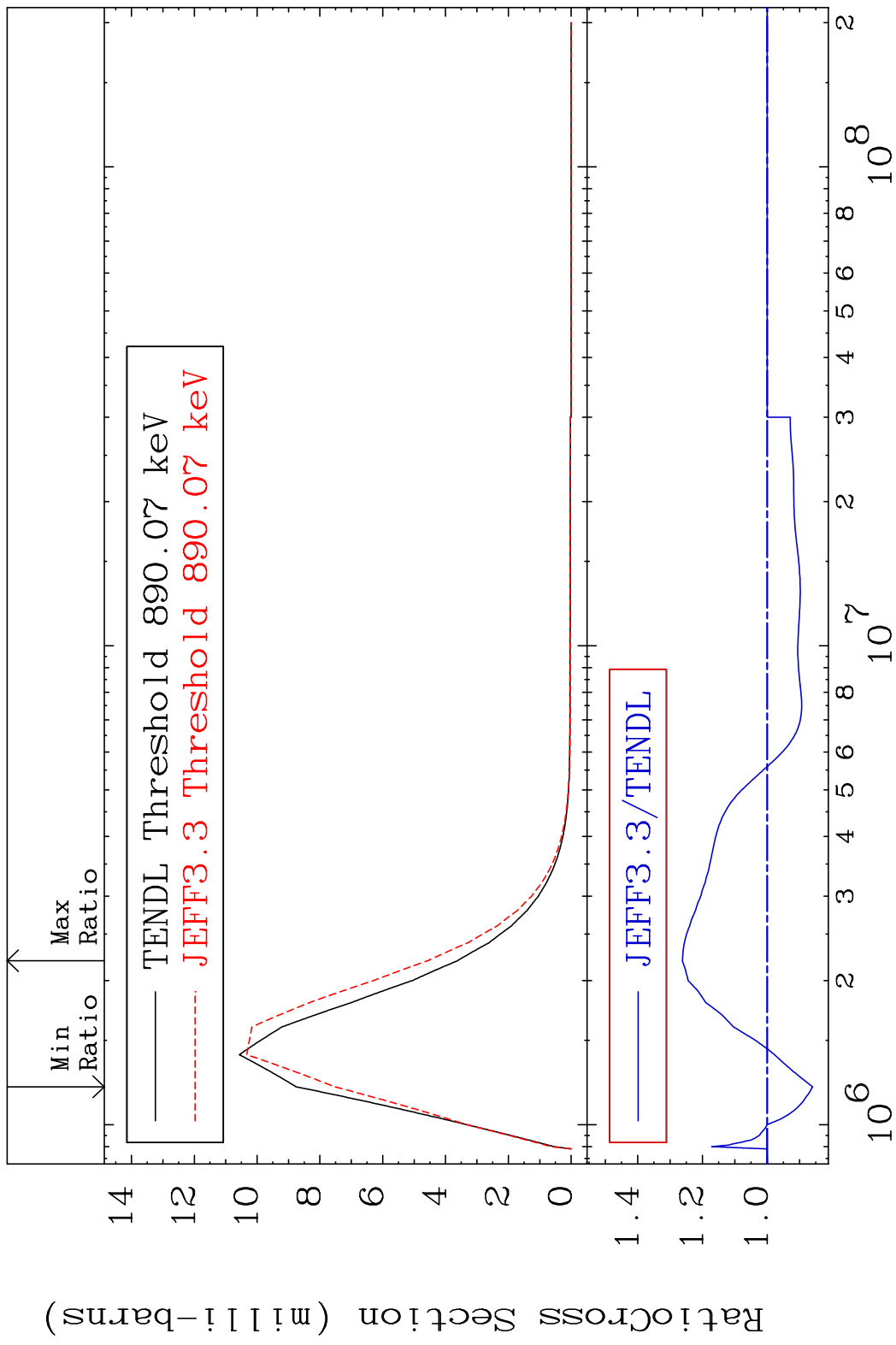
MAT 6234 MT= 55 (n,n') Level 62-Sm-147  
 Cross Section -100.0 To 5.836 %



MAT 6234 MT= 56 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 7.237 %

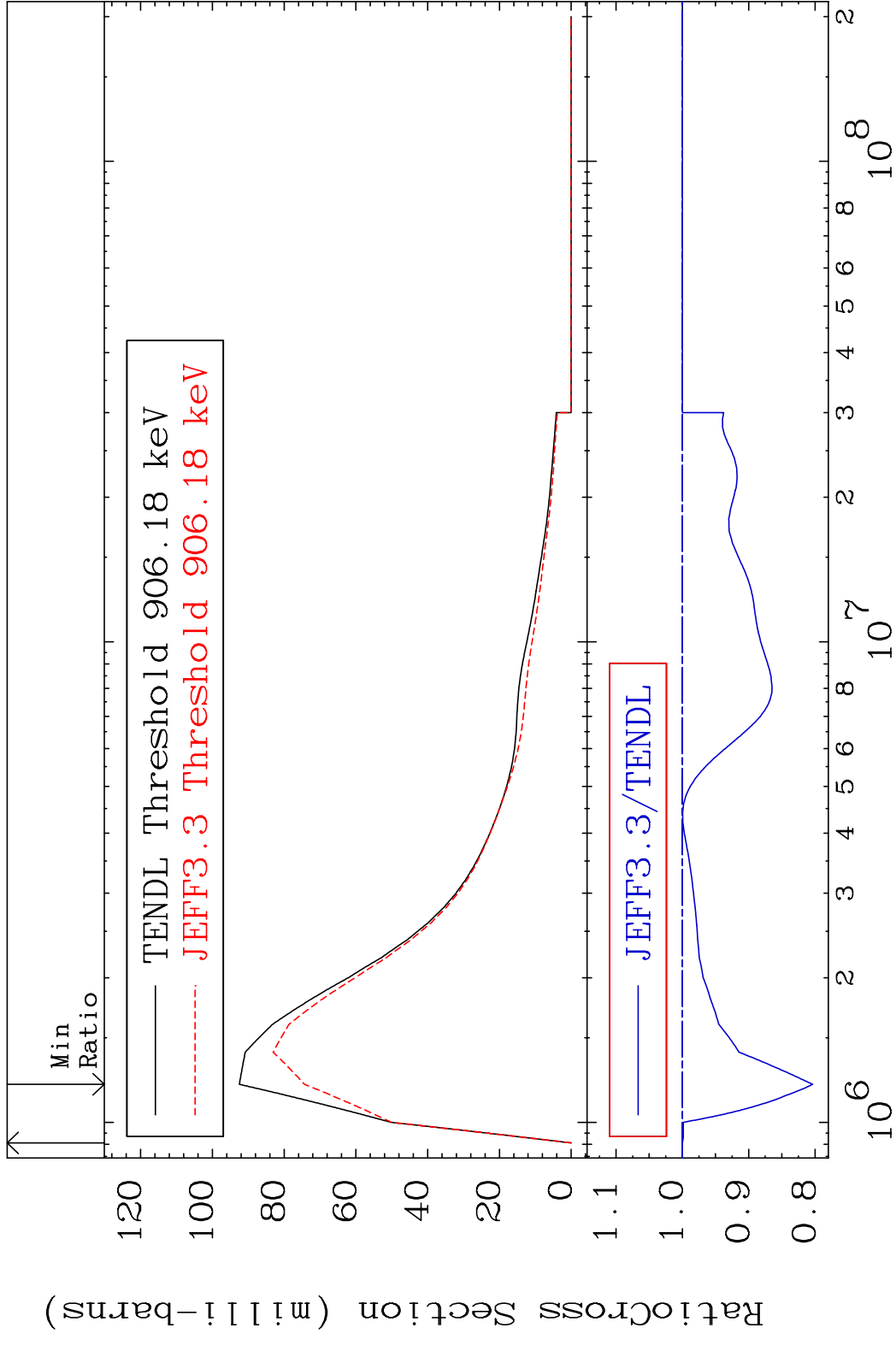


MAT 6234 MT= 57 (n,n') Level 62-Sm-147  
 Cross Section -14.01 To 26.21 %

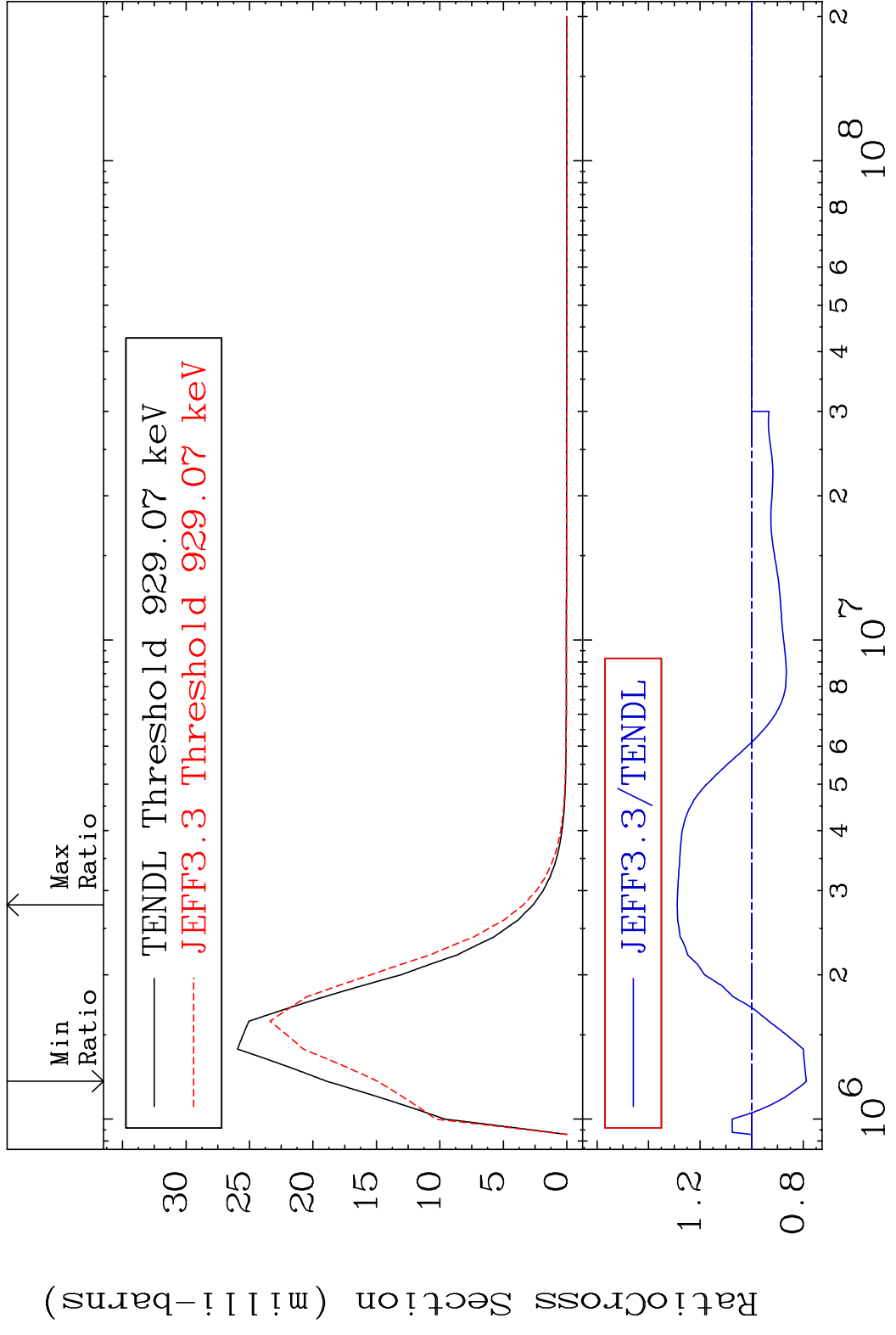


27 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 58 (n,n') Level 62-Sm-147  
 Cross Section -19.63 To 0.000 %

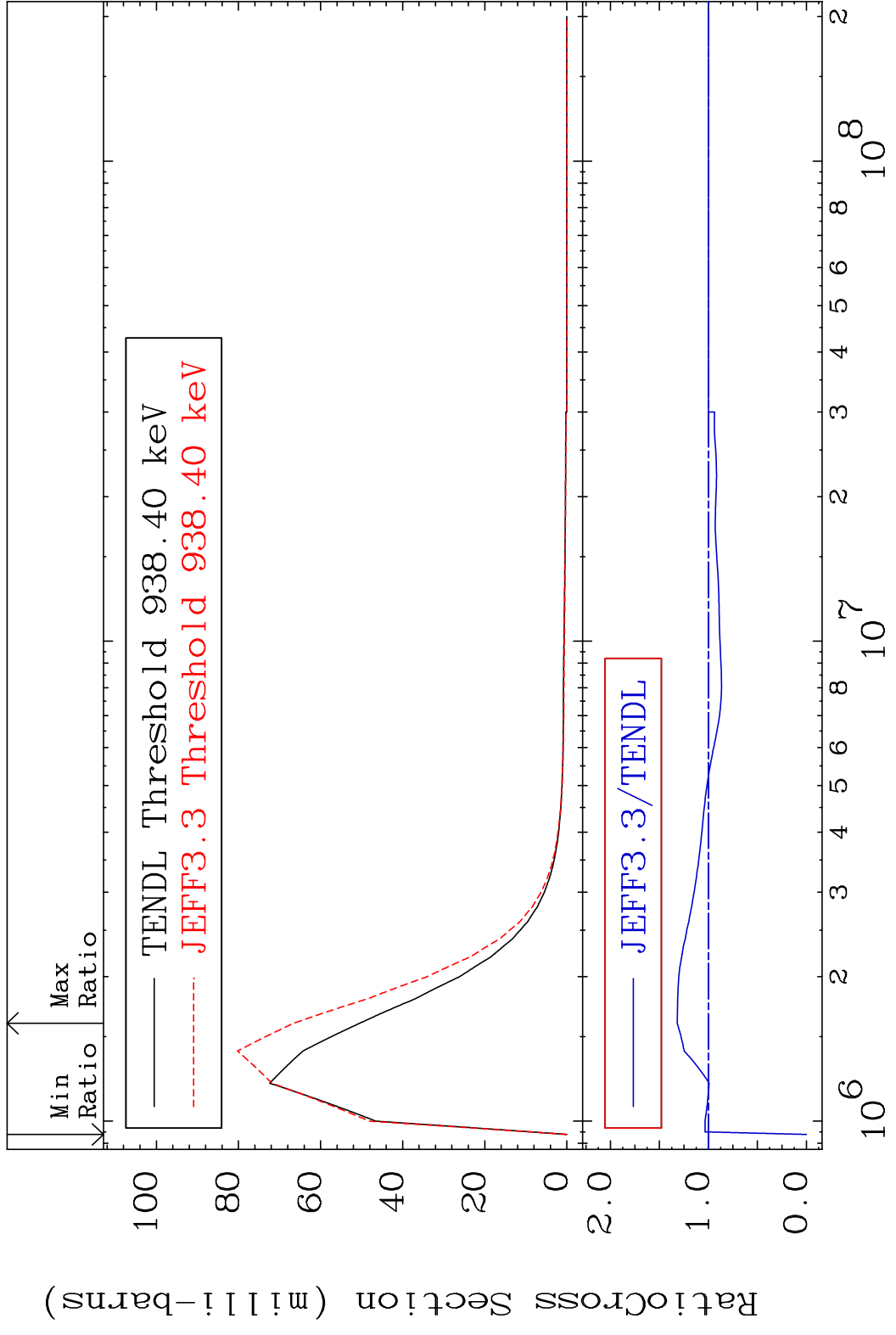


MAT 6234 MT= 59 (n, n') Level 62-Sm-147  
 Cross Section -21.22 To 28.90 %



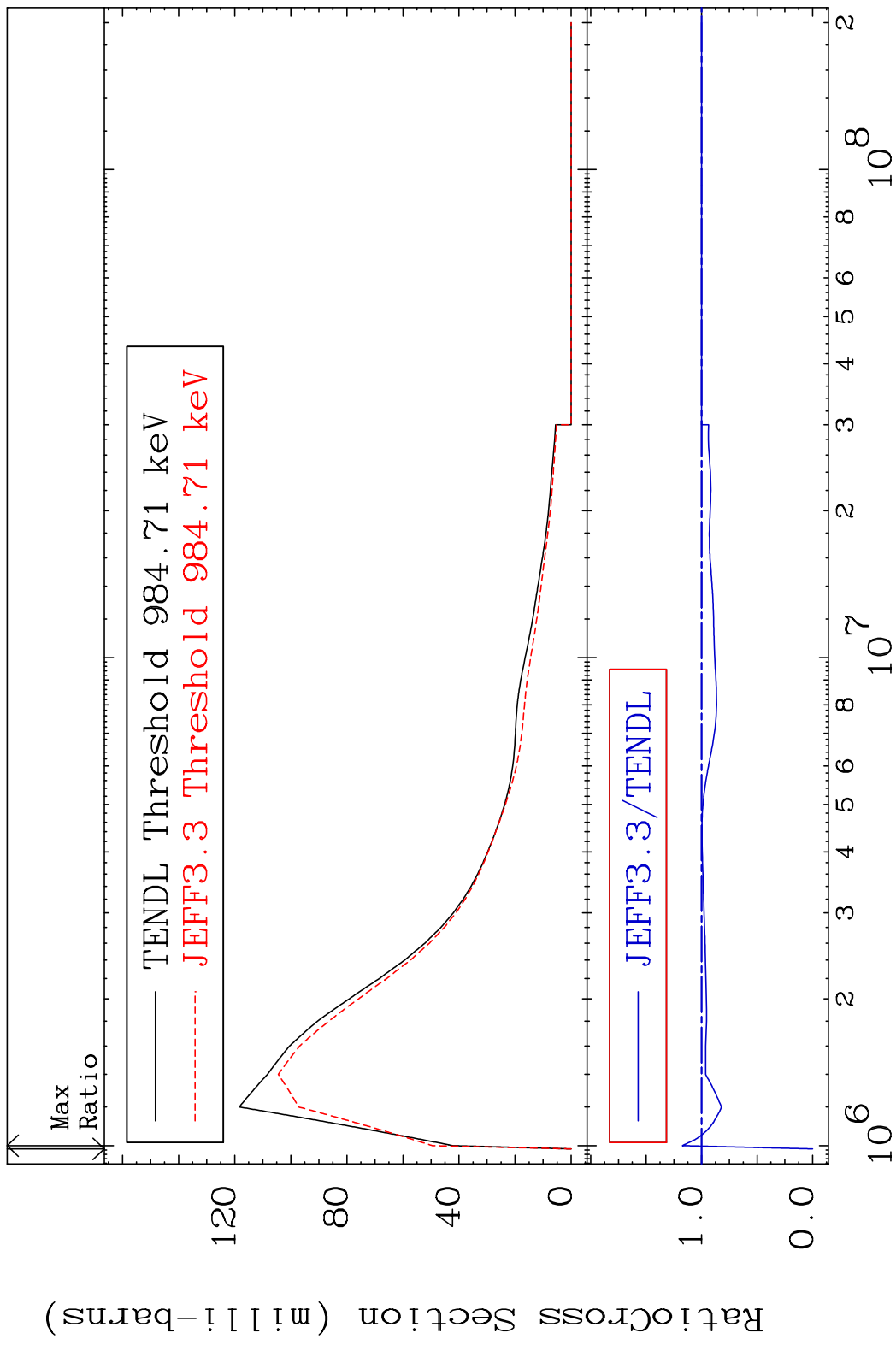
29 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 60 (n,n') Level 62-Sm-147  
 Cross Section -100.0 To 31.89 %



30 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 61 (n,n') Level 62-Sm-147  
 Cross Section -100.0 To 17.37 %



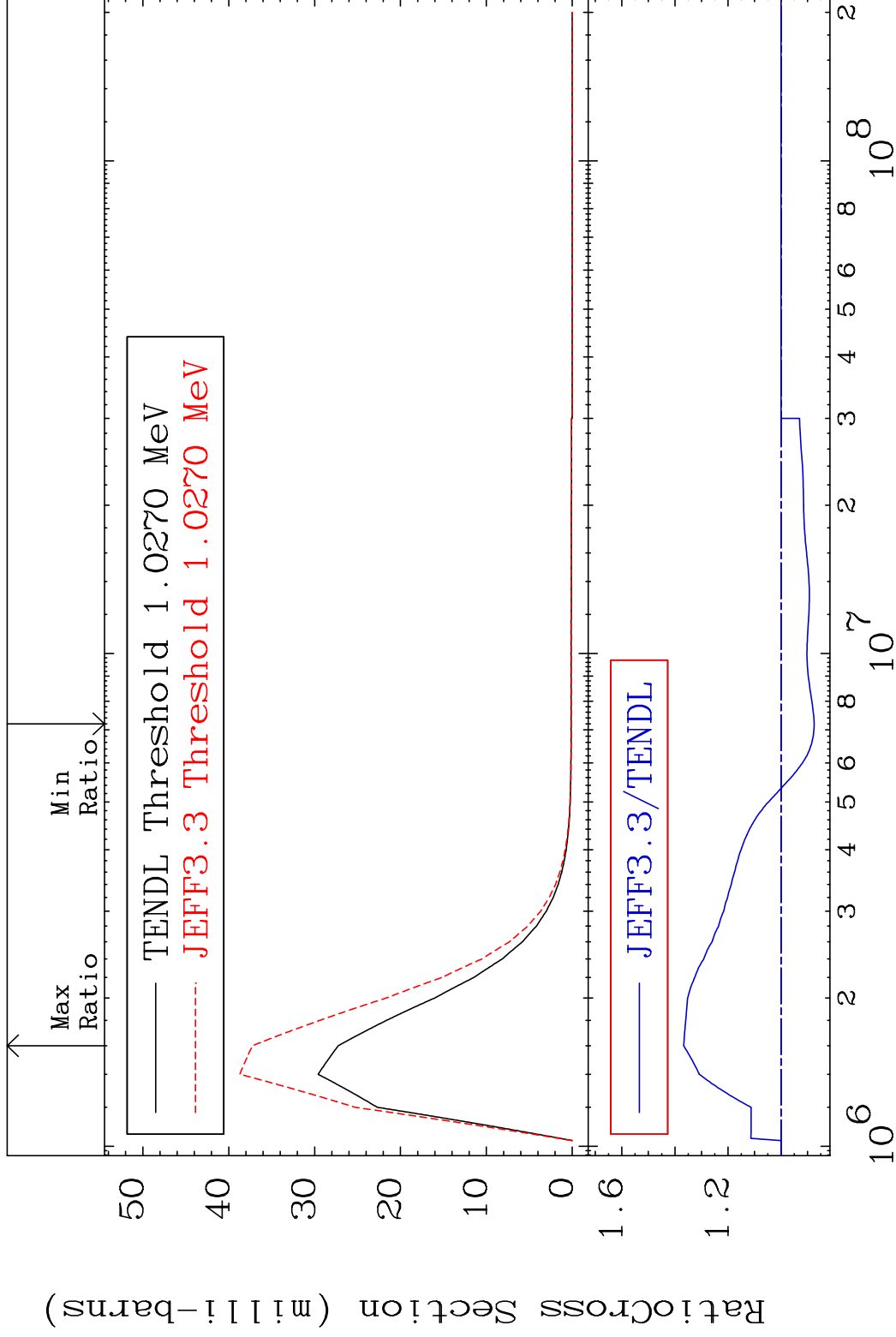
31 Incident Energy (eV) 62-Sm-147

MAT 6234

MT= 62 (n, n') Level

62-Sm-147

Cross Section -12.46 To 36.71 %

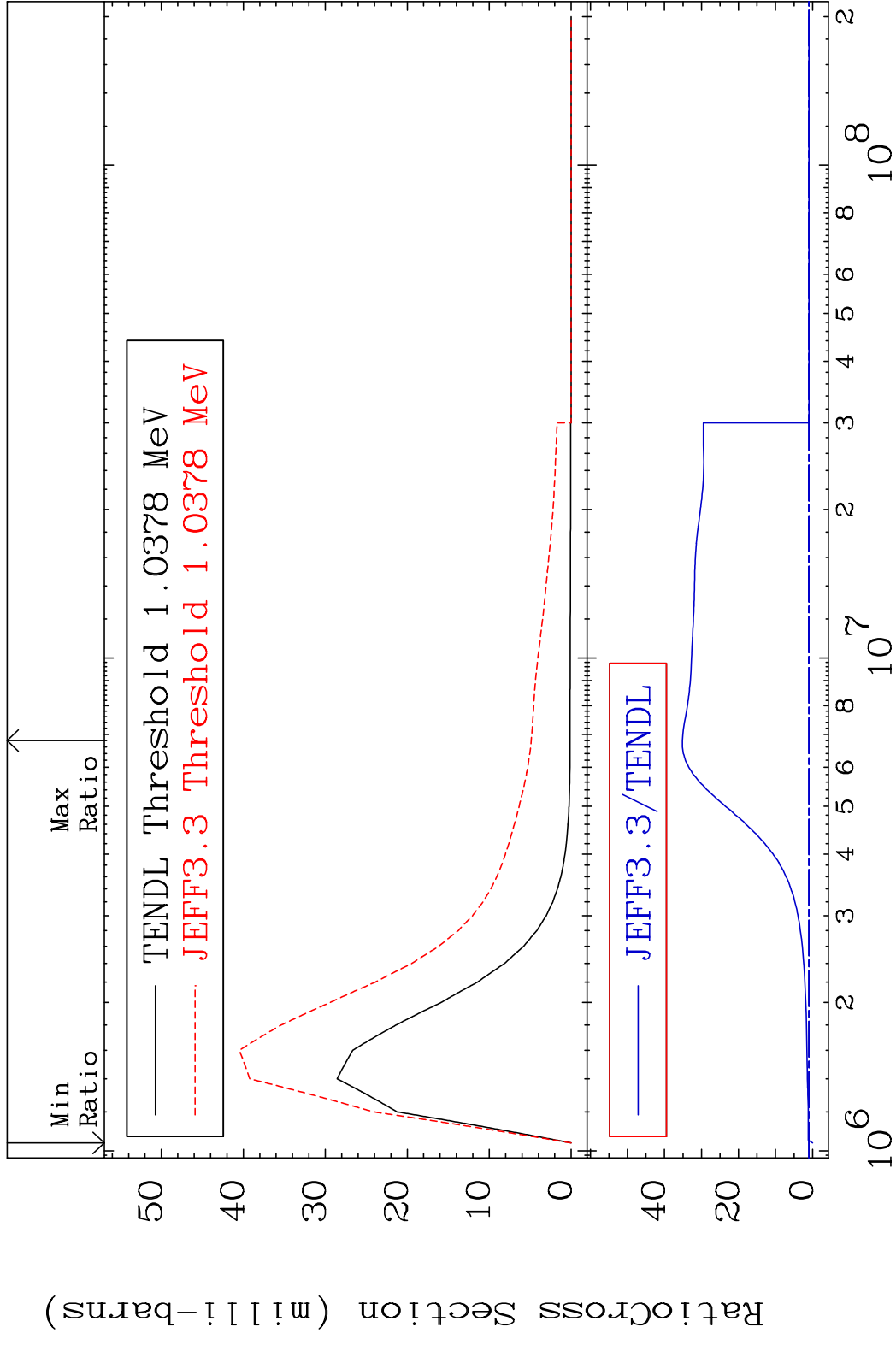


32

Incident Energy (eV)

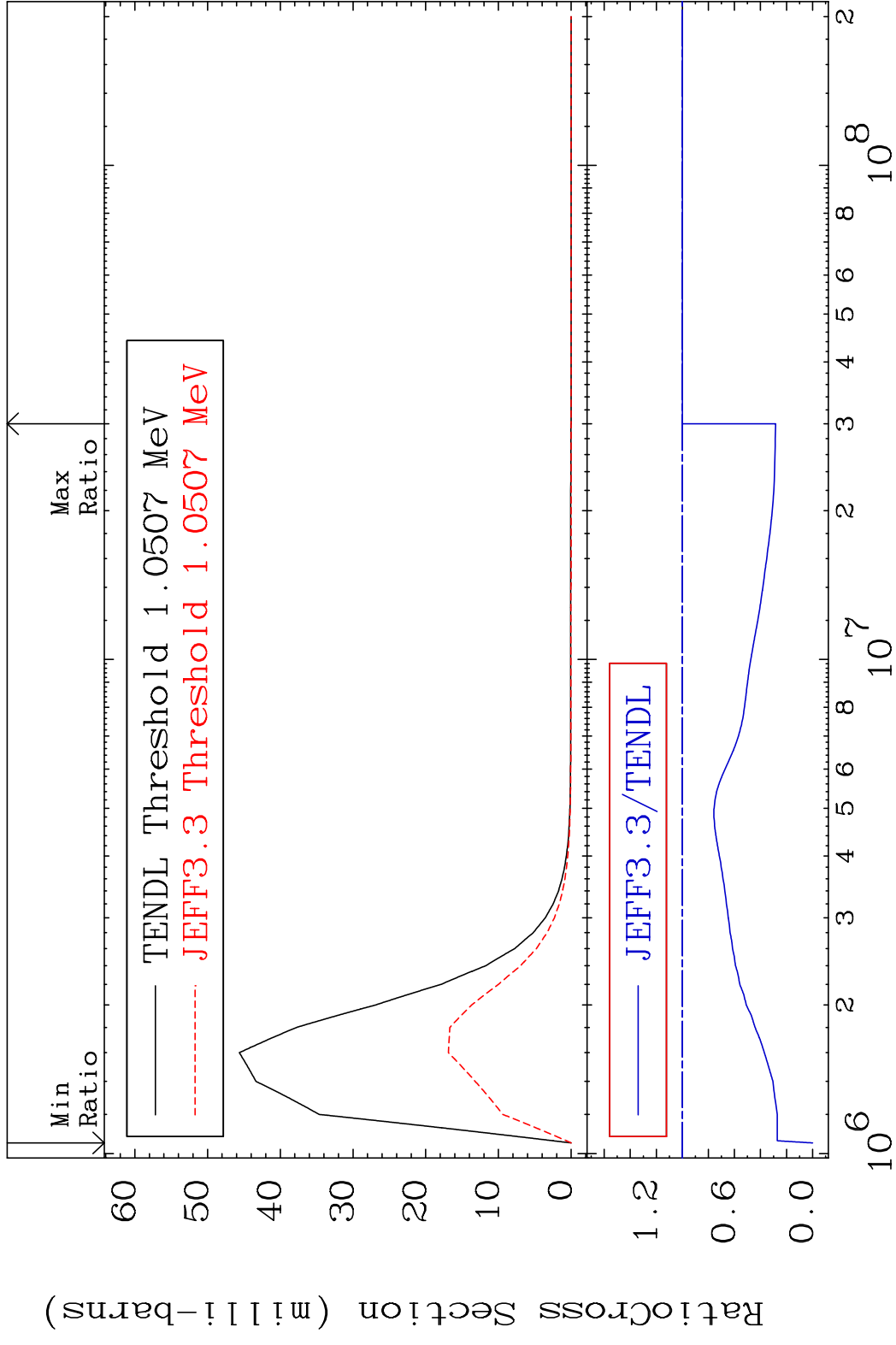
62-Sm-147

MAT 6234 MT= 63 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 3417. %

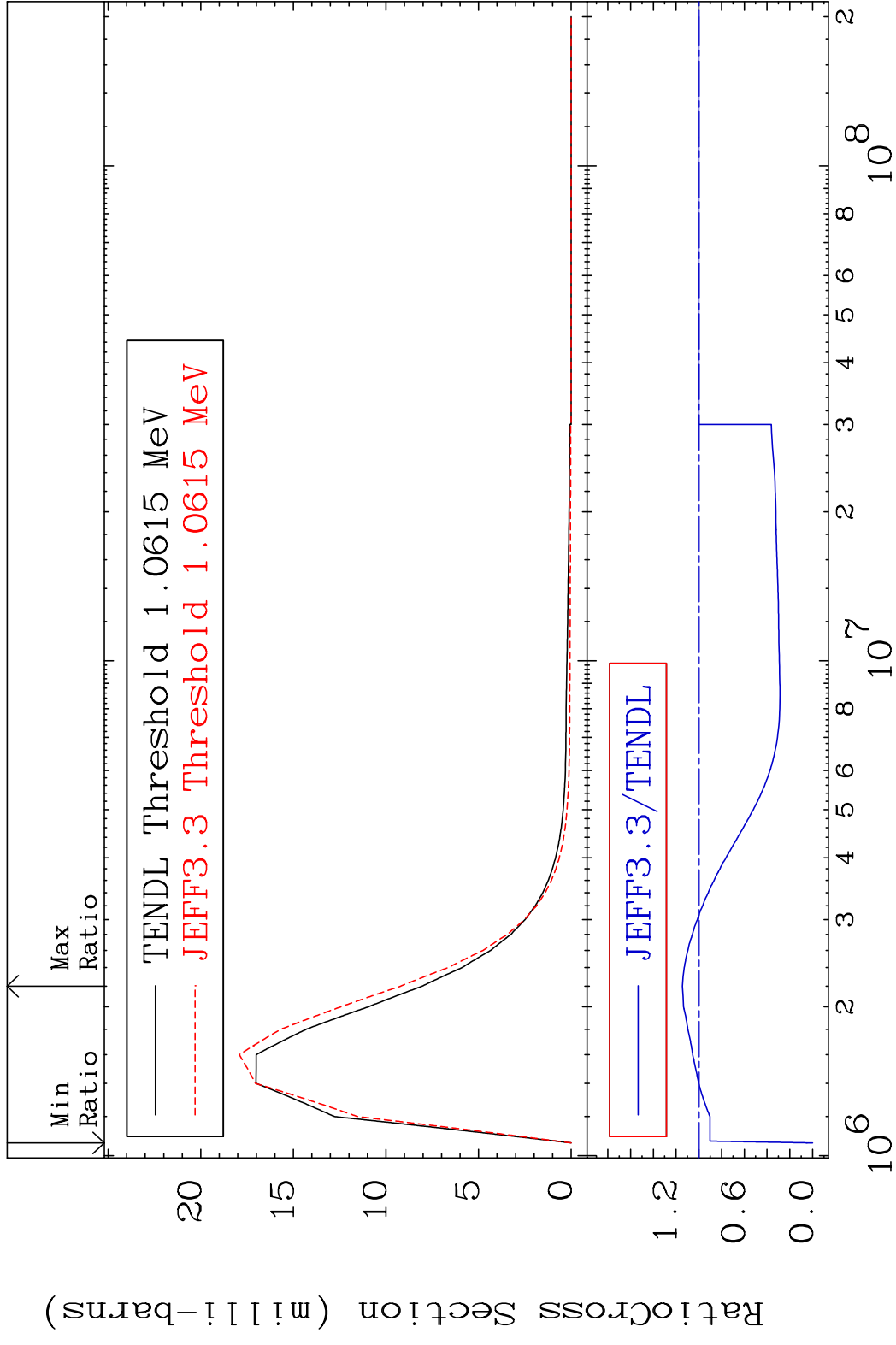


33 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 64 (n,n') Level 62-Sm-147  
 Cross Section -100.0 To 0.000 %



MAT 6234 MT= 65 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 14.47 %

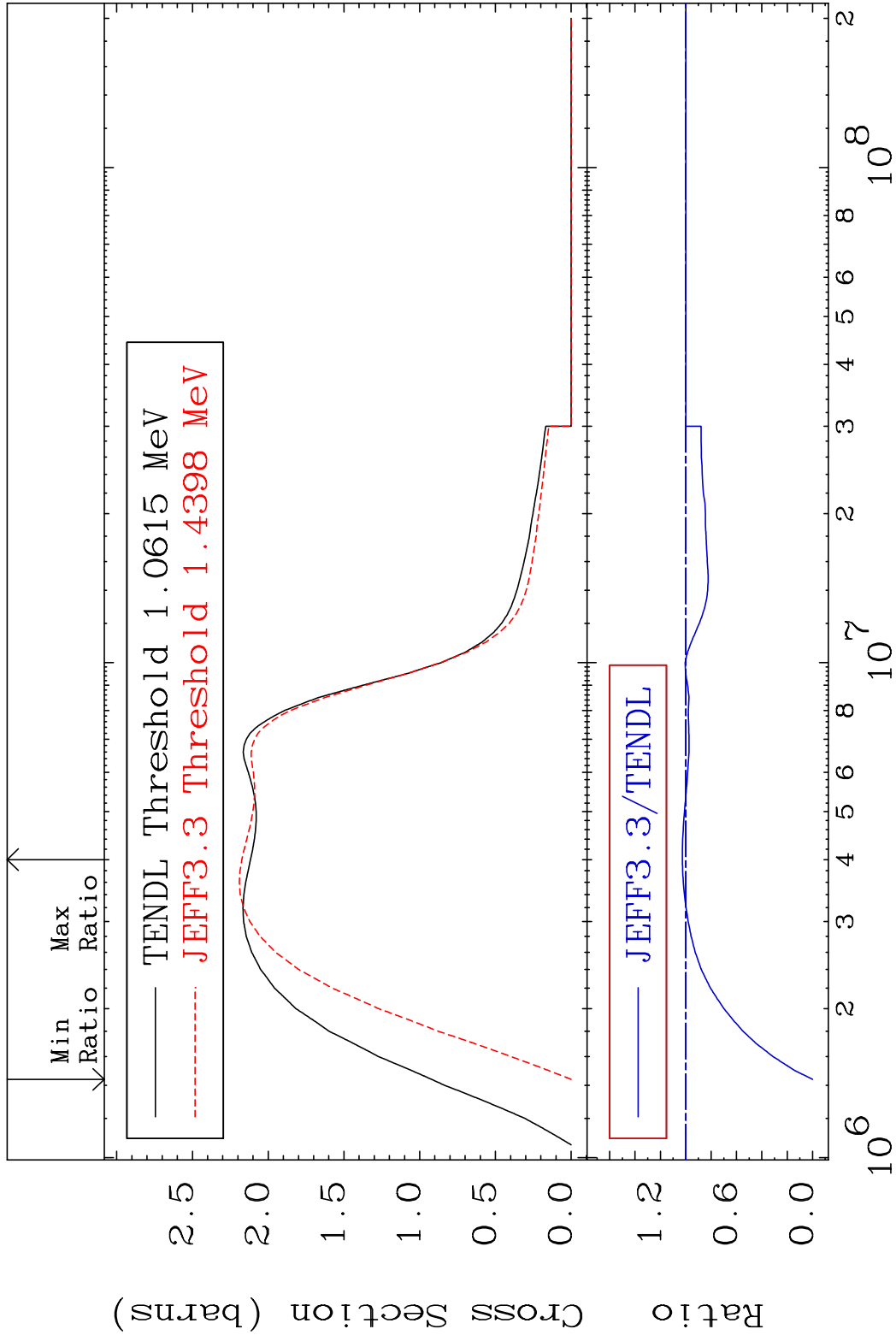


MAT 6234

(n, n') Continuum

62-Sm-147

Cross Section -100.0 To 2.698 %



36

Incident Energy (eV)

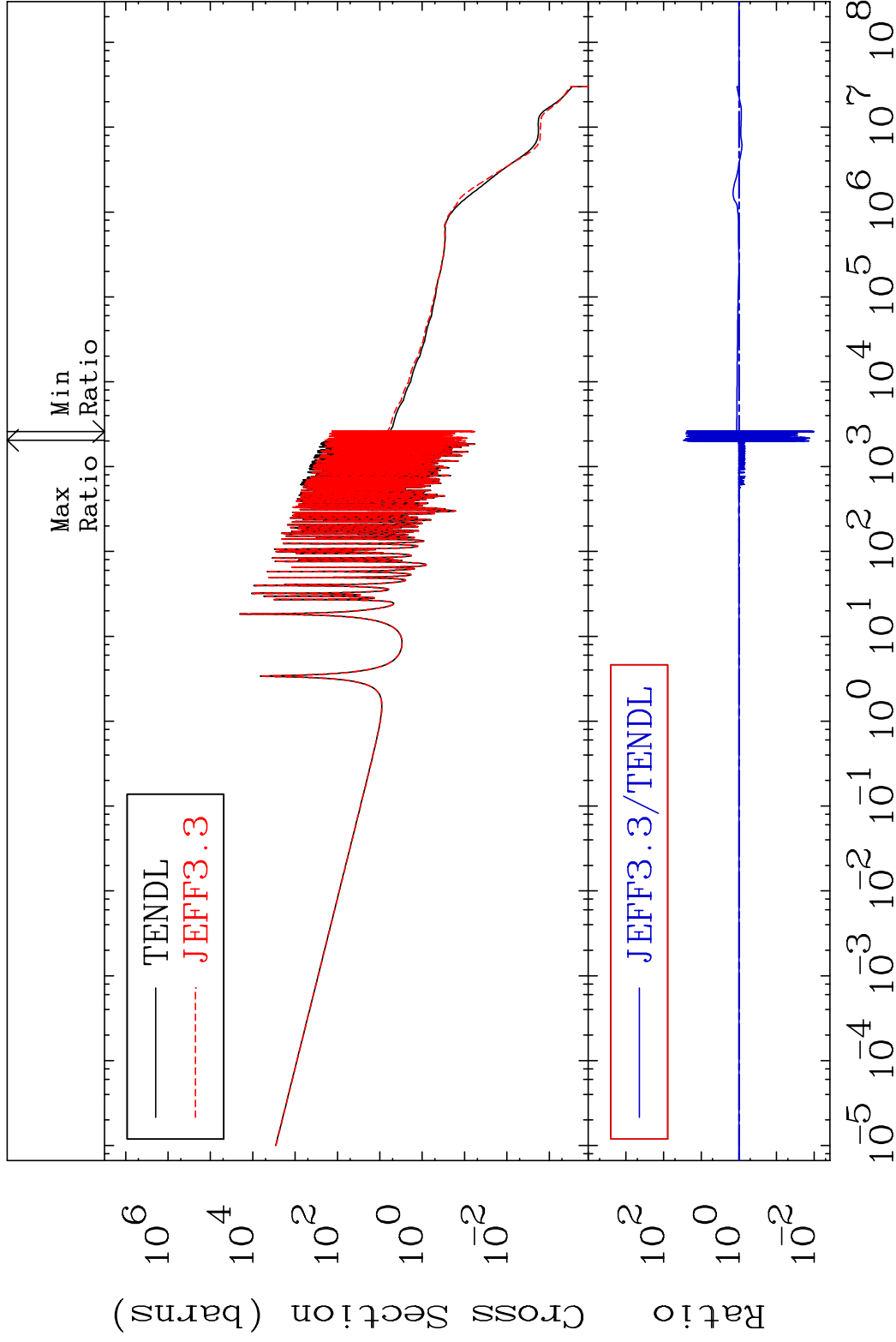
62-Sm-147

MAT 6234

(n,  $\gamma$ )

62-Sm-147

Cross Section -98.99 To 2833. %



37

Incident Energy (eV)

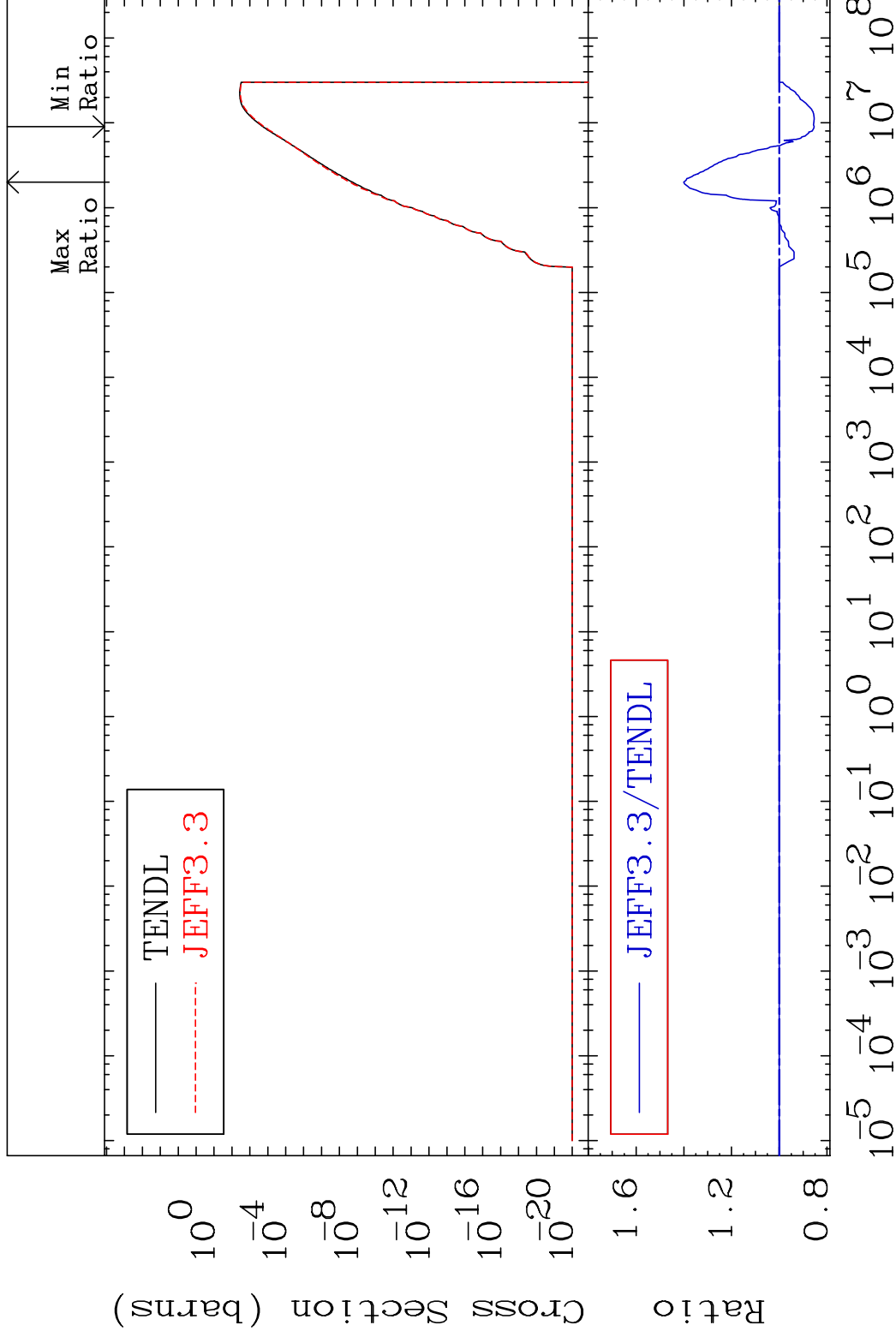
62-Sm-147

MAT 6234

(n, p)

62-Sm-147

Cross Section -14.60 To 40.08 %



38

Incident Energy (eV)

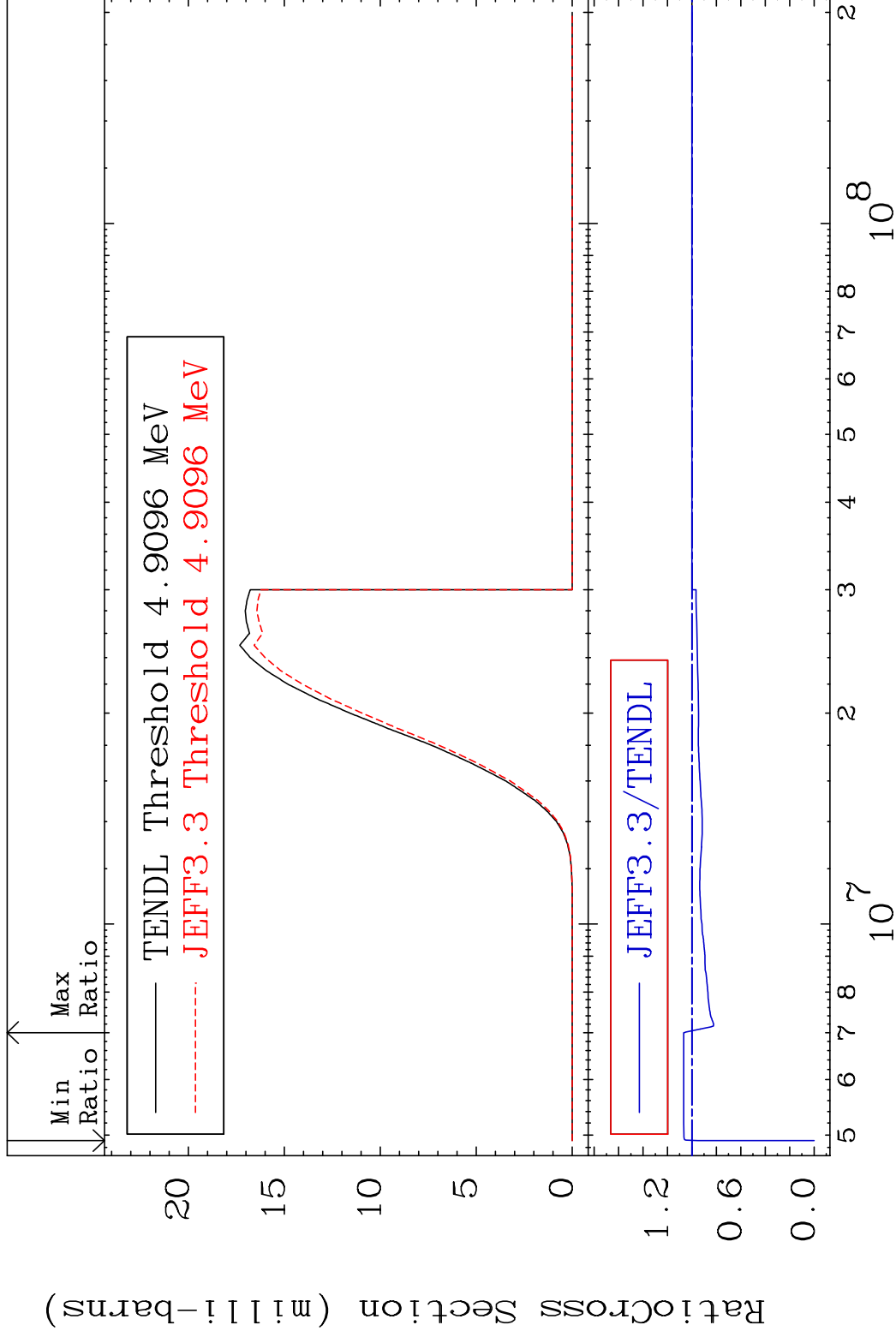
62-Sm-147

MAT 6234

(n, d)

62-Sm-147

Cross Section -100.0 To 6.751 %



39

Incident Energy (eV)

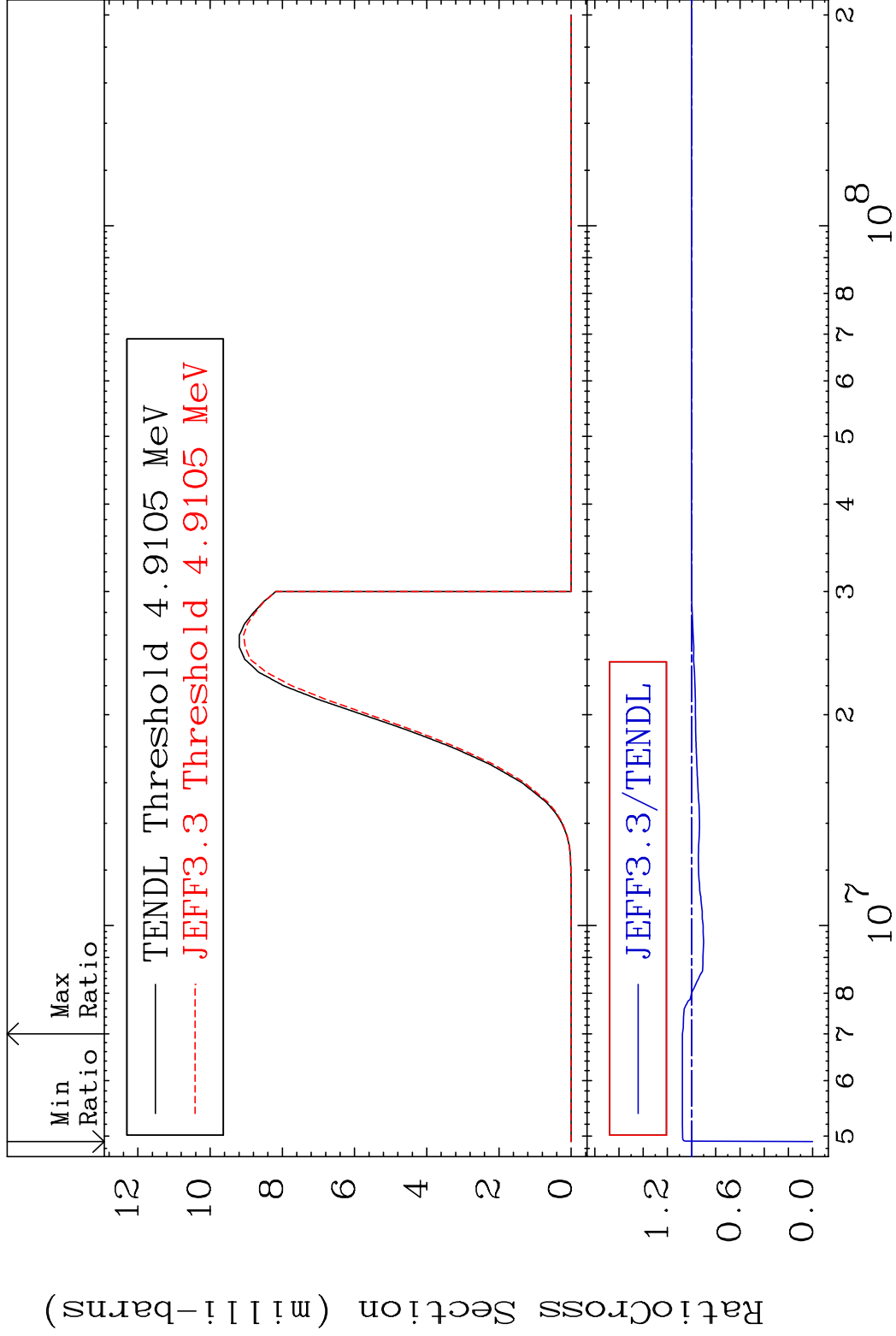
62-Sm-147

MAT 6234

(n, t)

62-Sm-147

Cross Section -100.0 To 7.640 %



40

Incident Energy (eV)

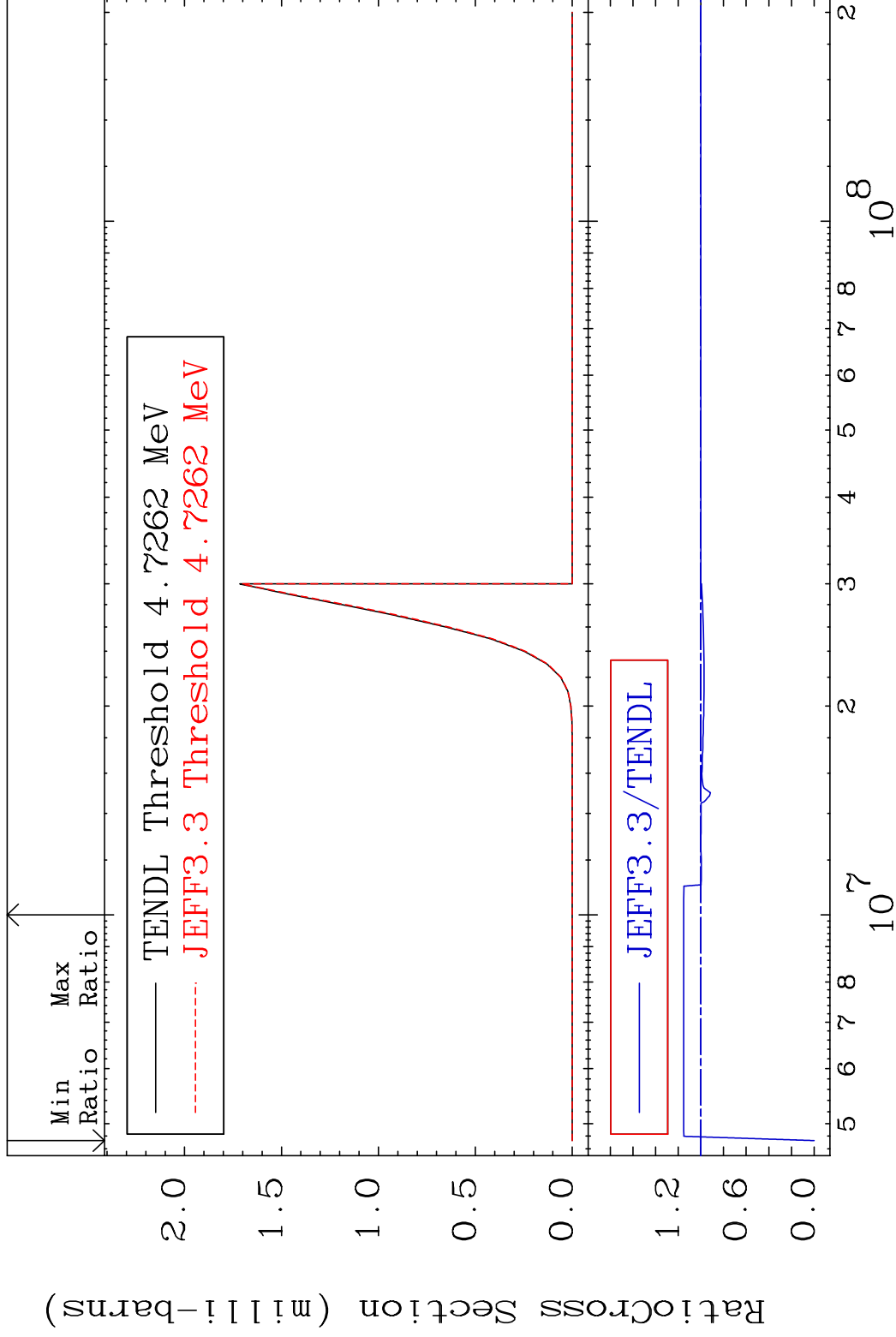
62-Sm-147

MAT 6234

(n, He-3)

62-Sm-147

Cross Section -100.0 To 15.19 %



41

Incident Energy (eV)

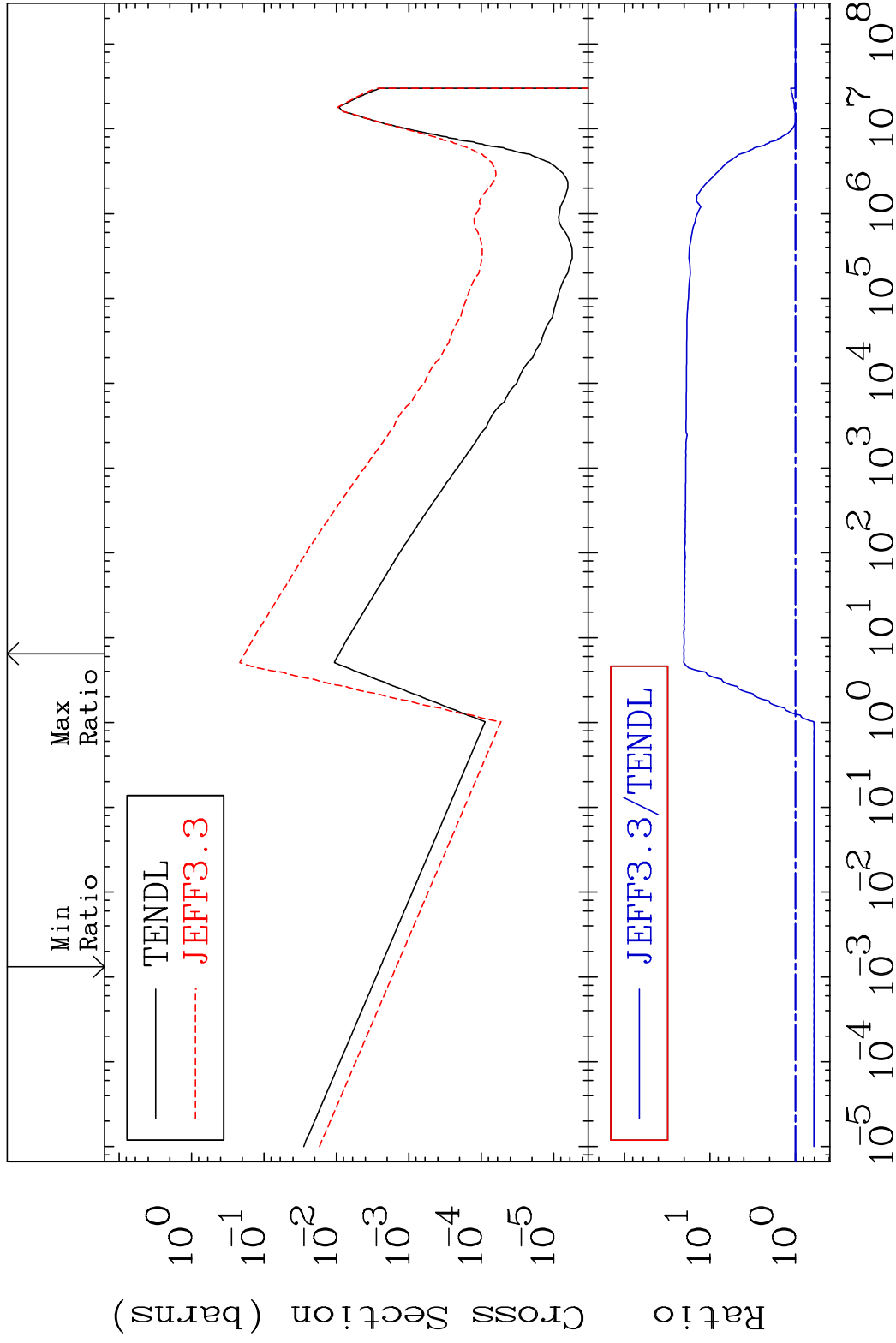
62-Sm-147

MAT 6234

(n,  $\alpha$ )

62-Sm-147

Cross Section -39.73 To 1926. %



42

Incident Energy (eV)

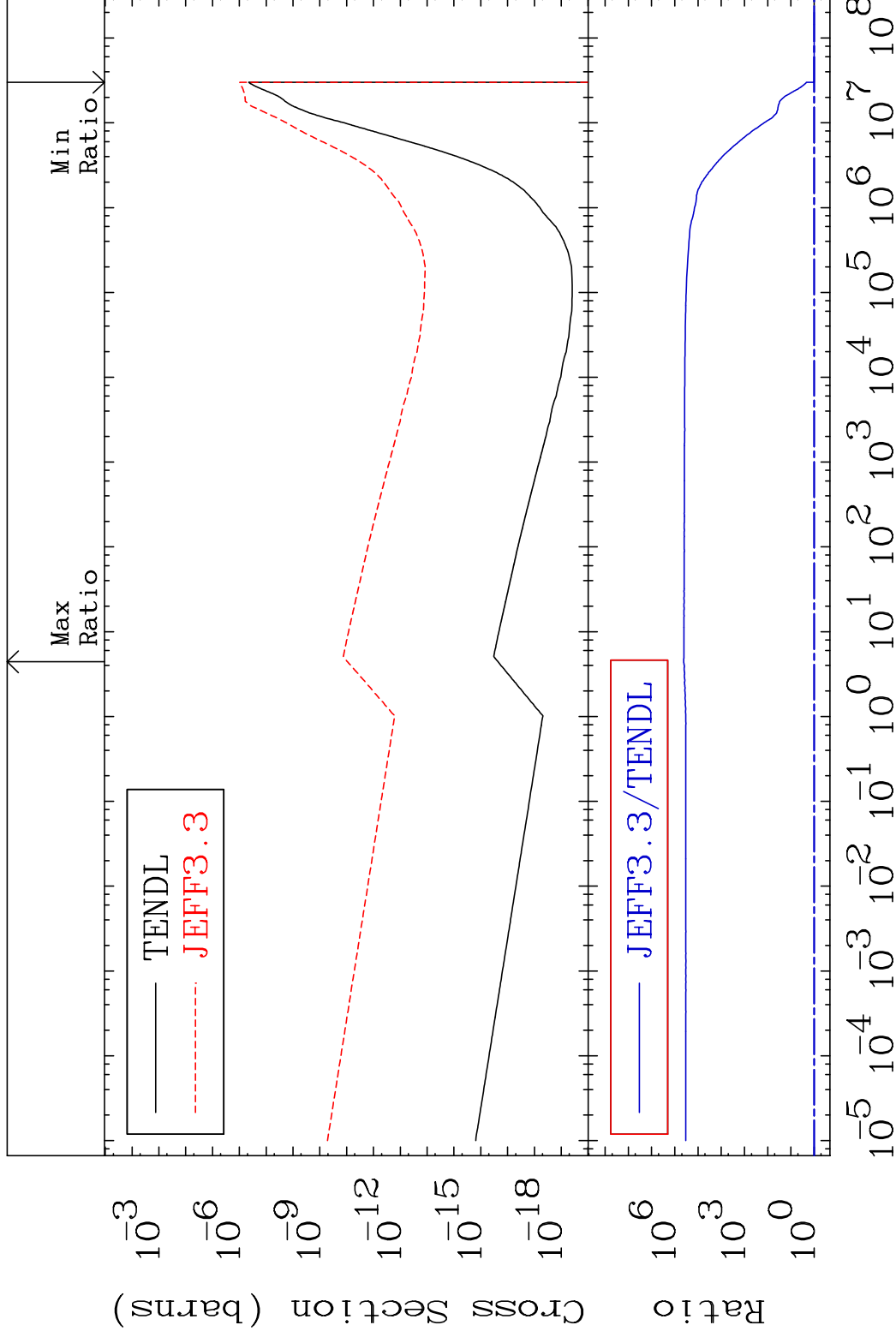
62-Sm-147

MAT 6234

(n, 2α)

62-Sm-147

Cross Section 0.000 To 9999. %

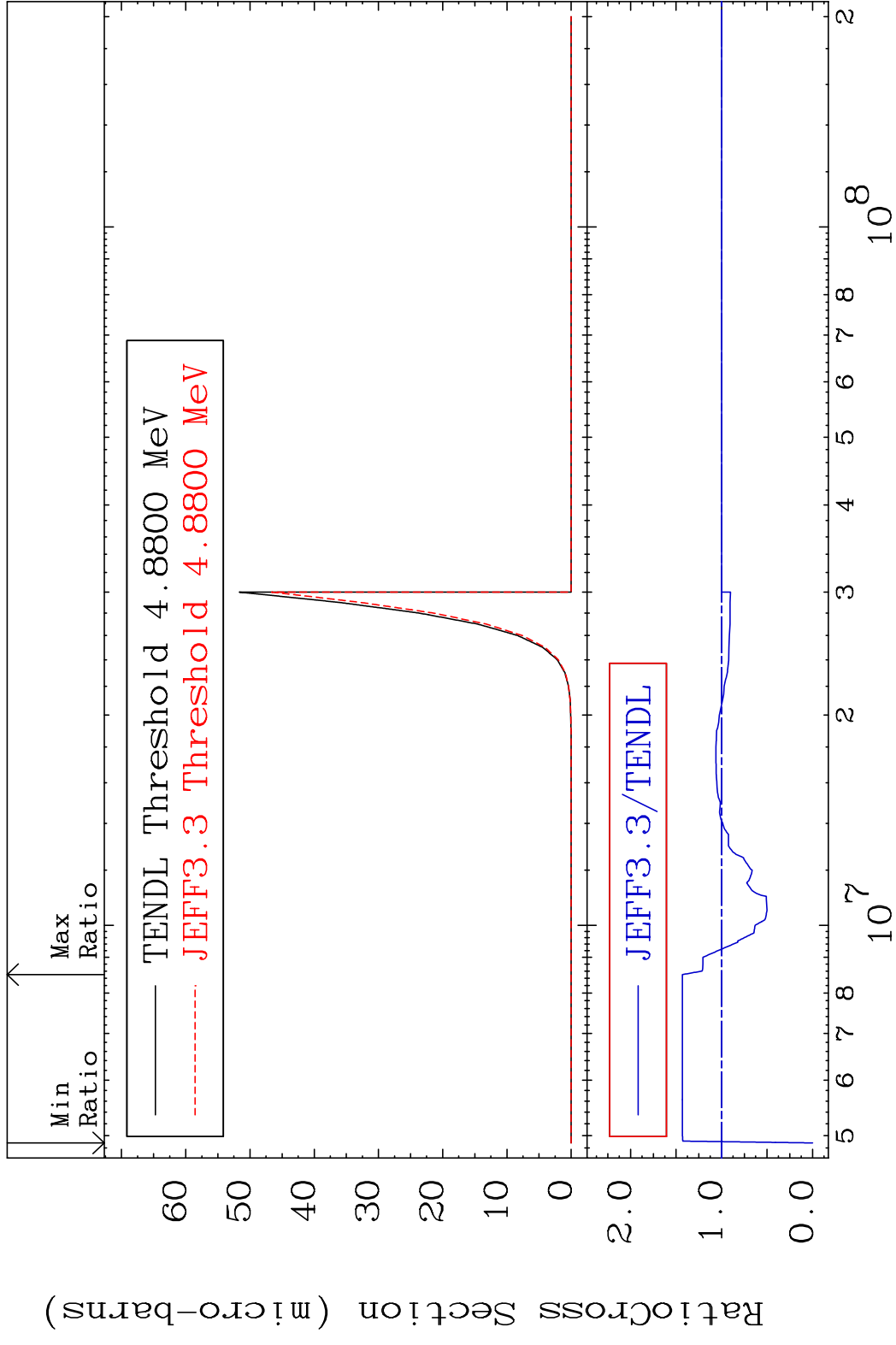


43

Incident Energy (eV)

62-Sm-147

MAT 6234 (n,2p) 62-Sm-147  
 Cross Section -100.0 To 43.14 %

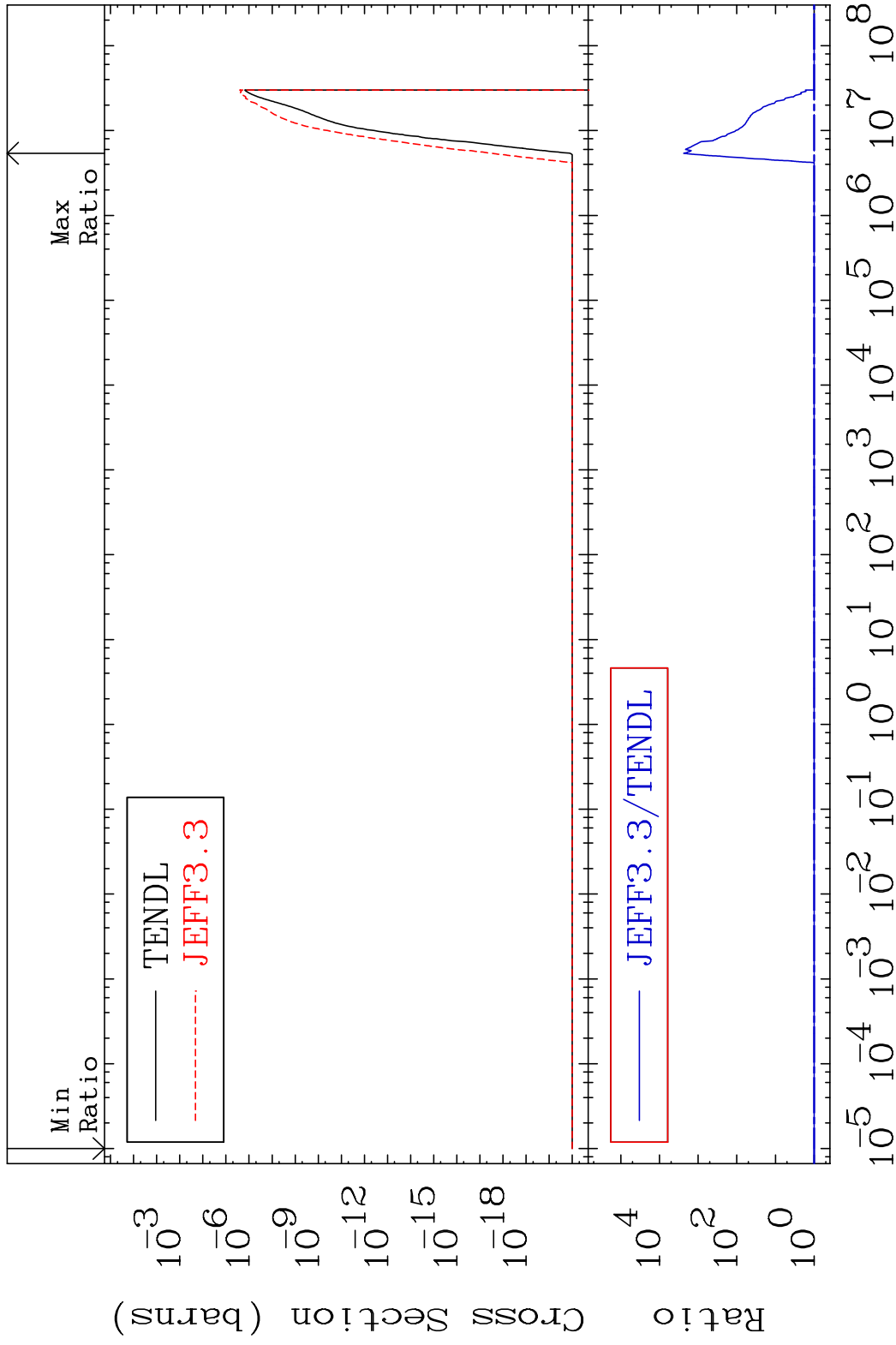


MAT 6234

(n,p)  $\alpha$

62-Sm-147

Cross Section 0.000 To 9999. %



45

Incident Energy (eV)

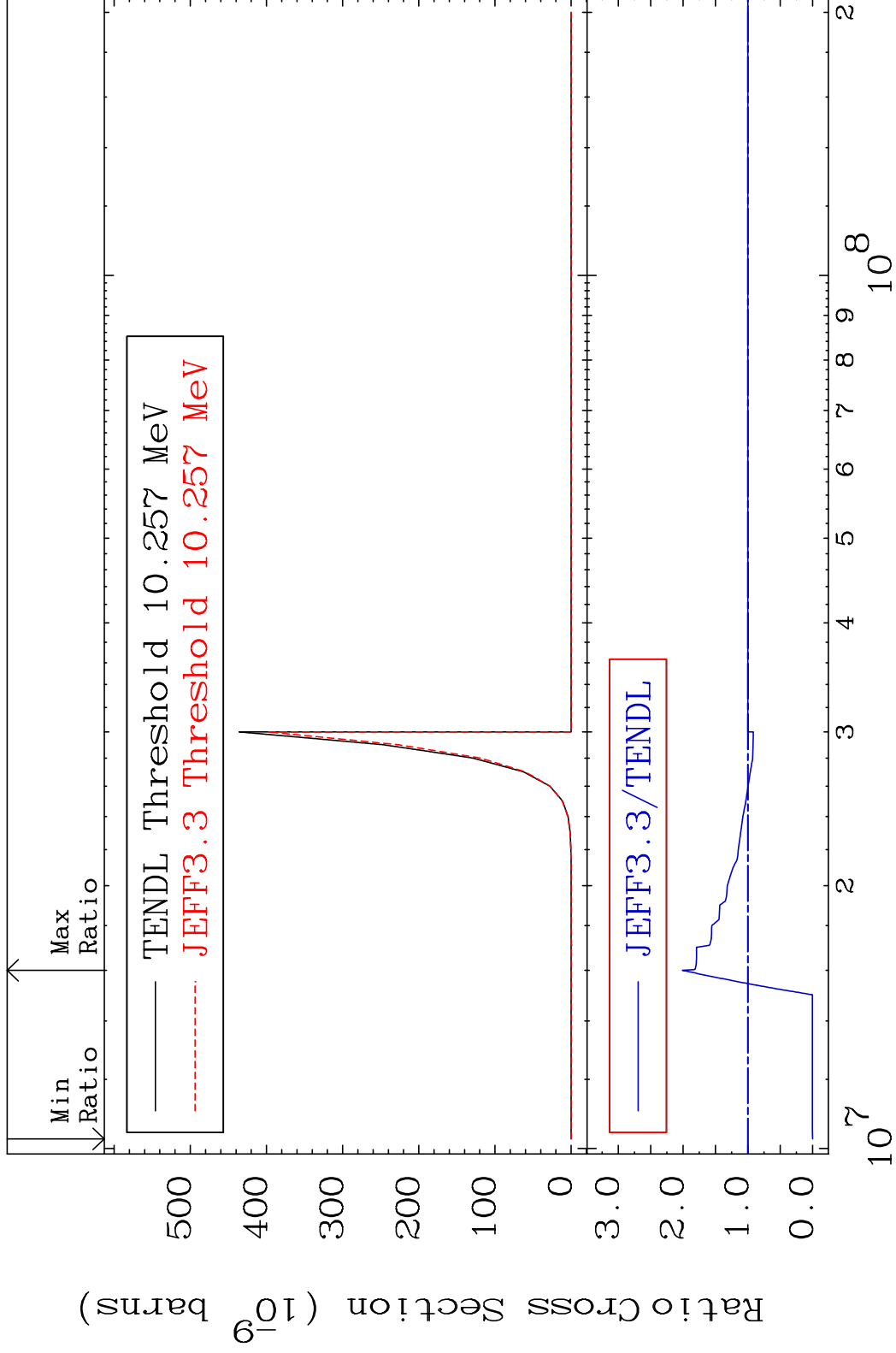
62-Sm-147

MAT 6234

(n,p) d

62-Sm-147

Cross Section -100.0 To 101.2 %



46

Incident Energy (eV)

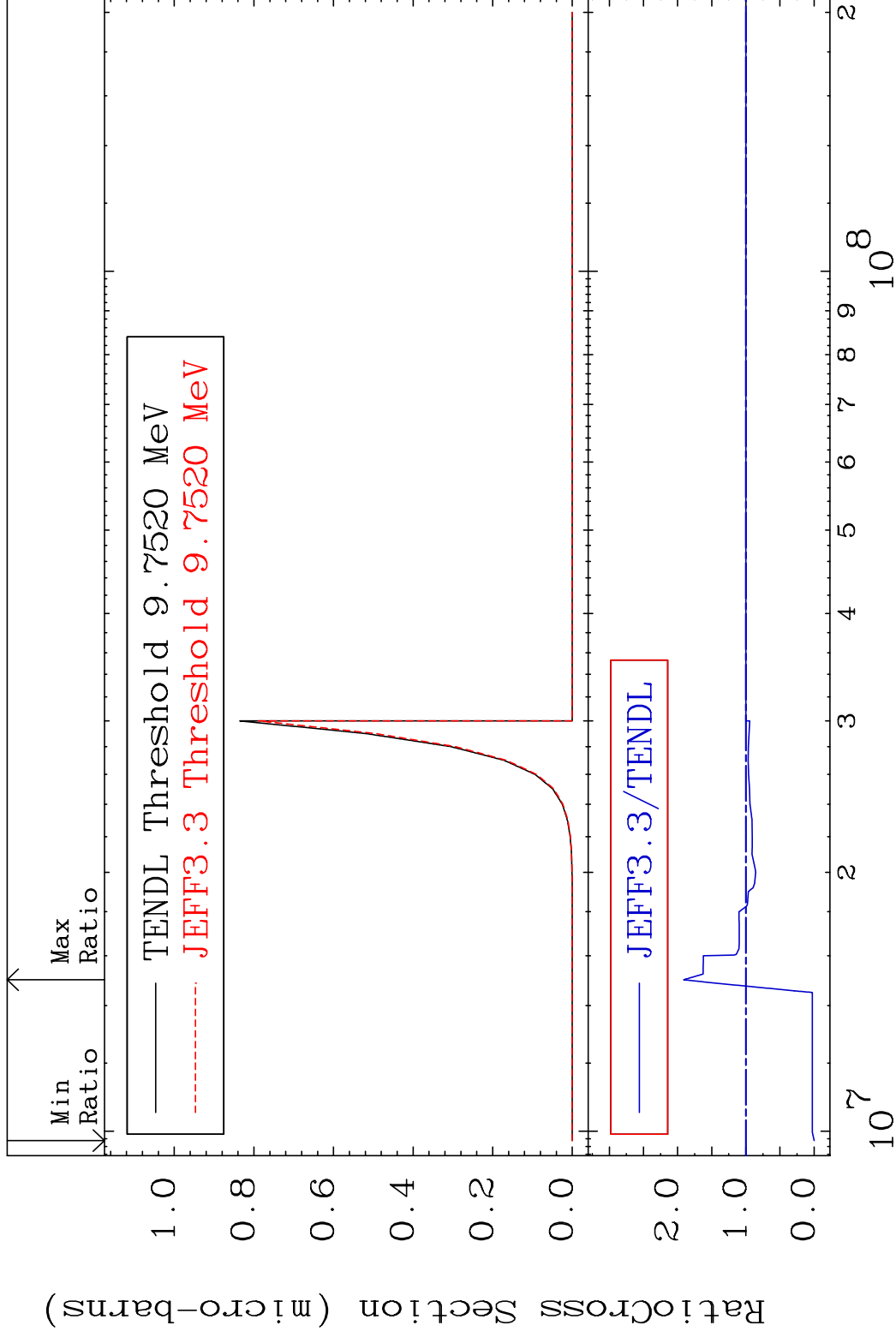
62-Sm-147

MAT 6234

(n,p) t

62-Sm-147

Cross Section -100.0 To 91.13 %



47

Incident Energy (eV)

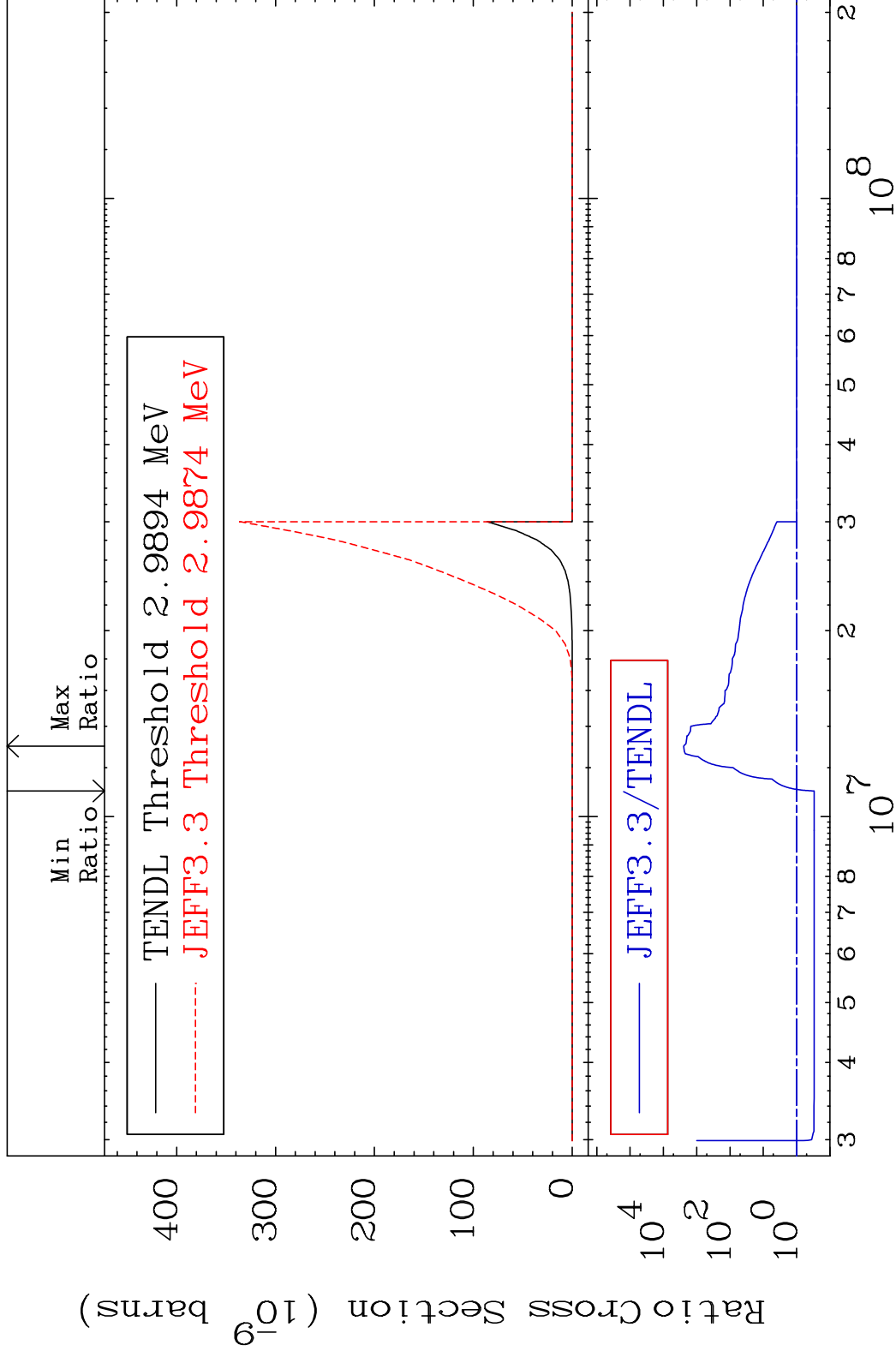
62-Sm-147

MAT 6234

(n, d)  $\alpha$

62-Sm-147

Cross Section -70.23 To 9999. %



48

Incident Energy (eV)

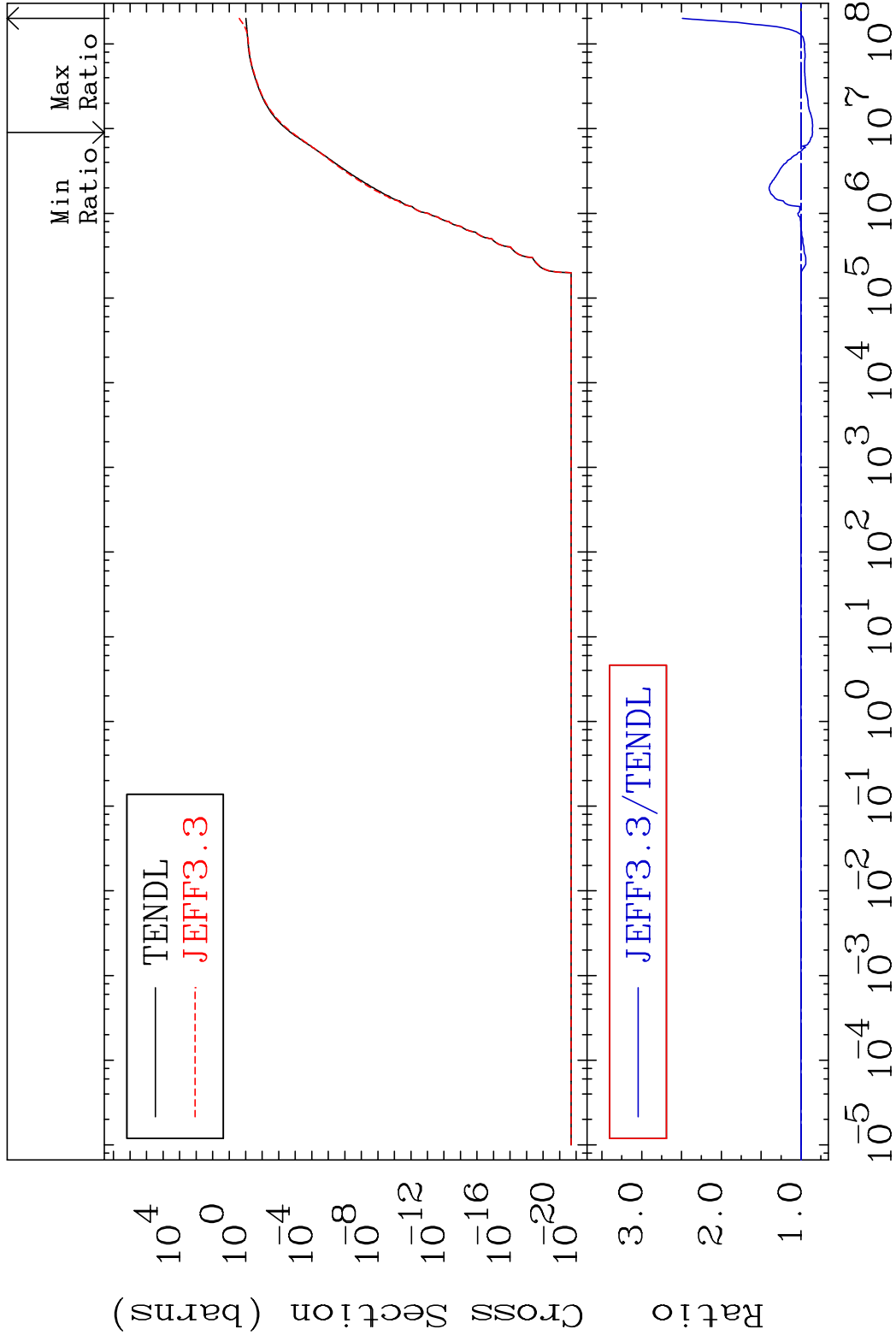
62-Sm-147

MAT 6234

Hydrogen Production

62-Sm-147

Cross Section -14.60 To 148.9 %



49

Incident Energy (eV)

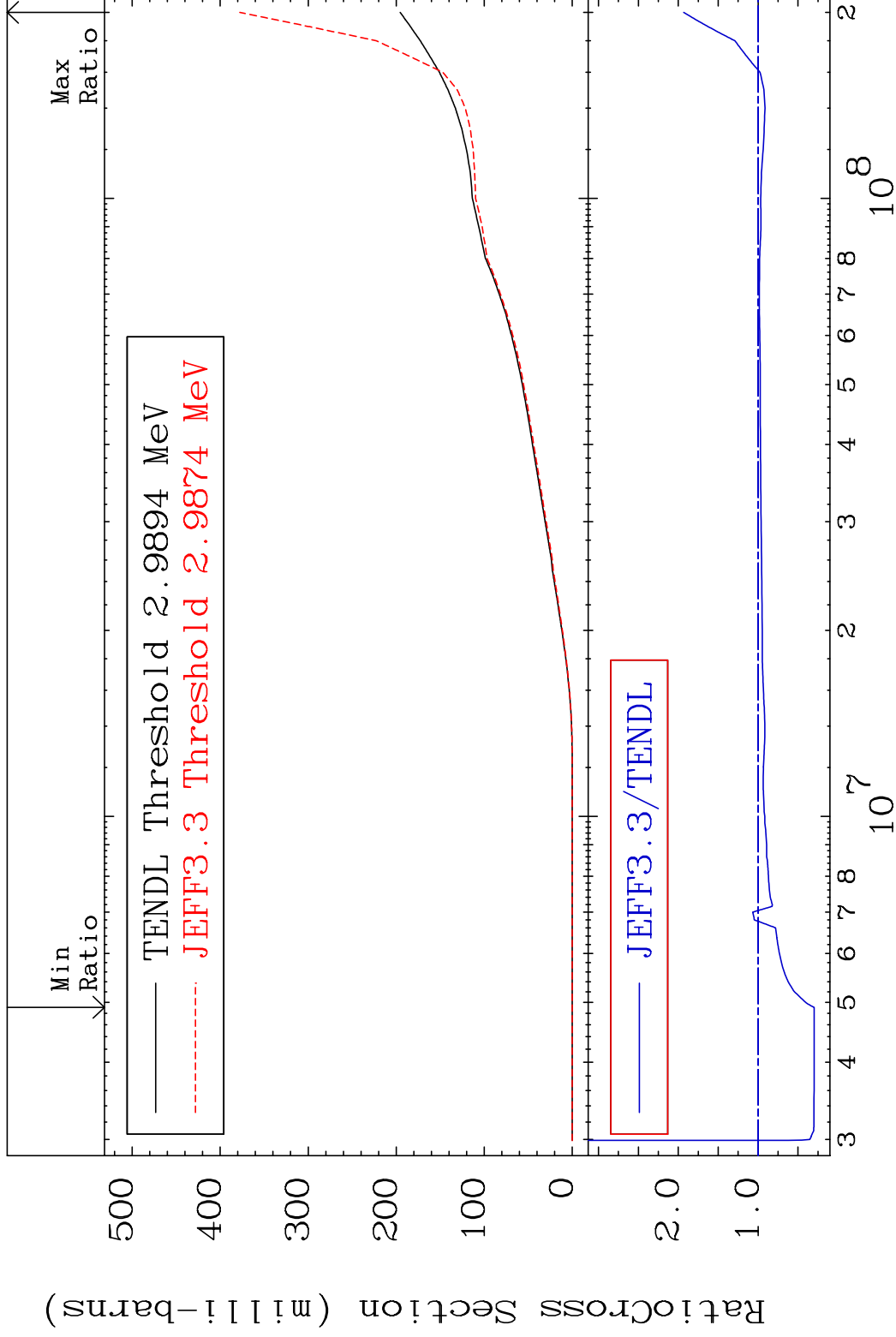
62-Sm-147

MAT 6234

Deuterium Production

62-Sm-147

Cross Section -70.21 To 93.25 %



50

Incident Energy (eV)

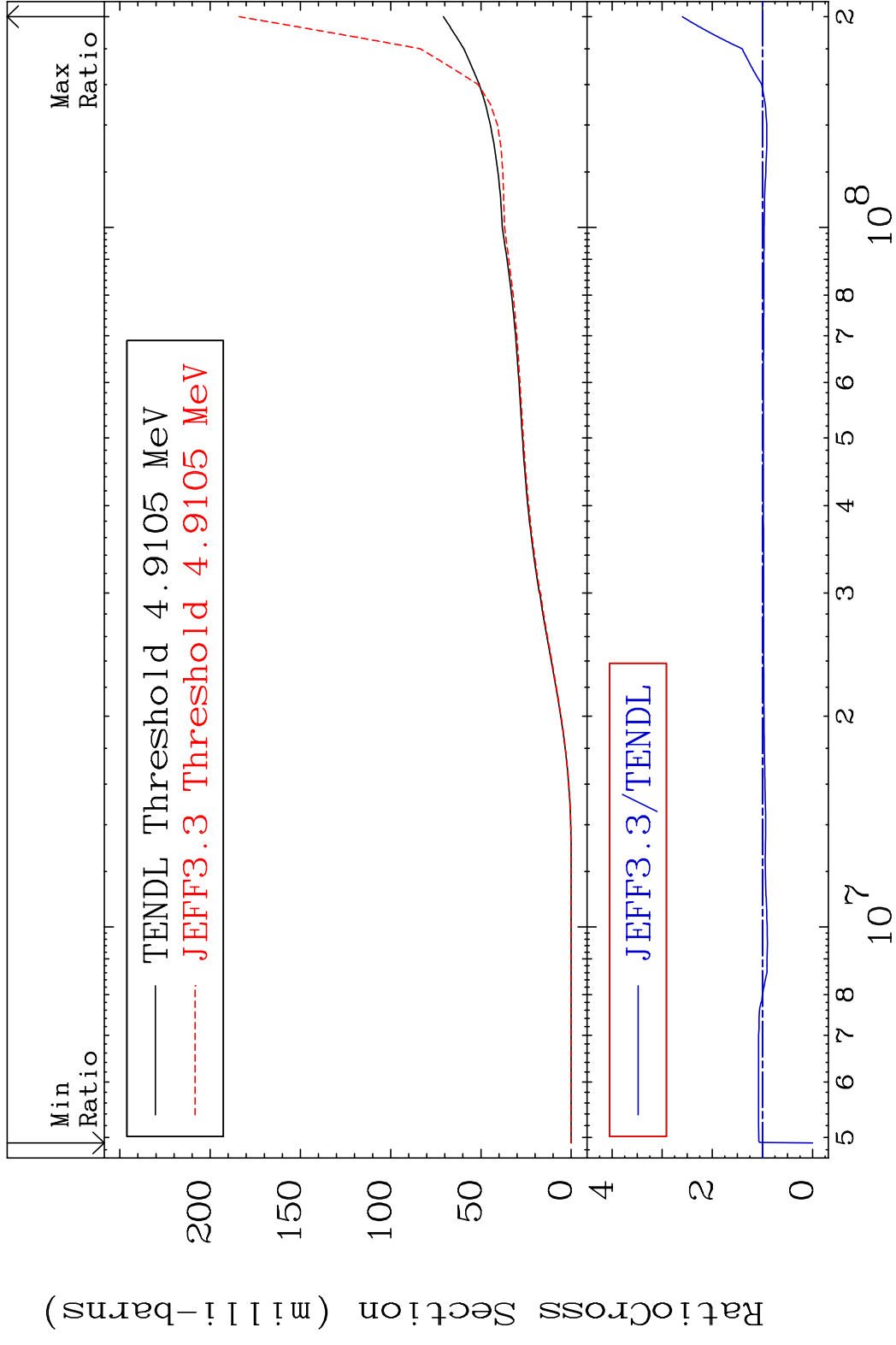
62-Sm-147

MAT 6234

Tritium Production

62-Sm-147

Cross Section -100.0 To 159.8 %

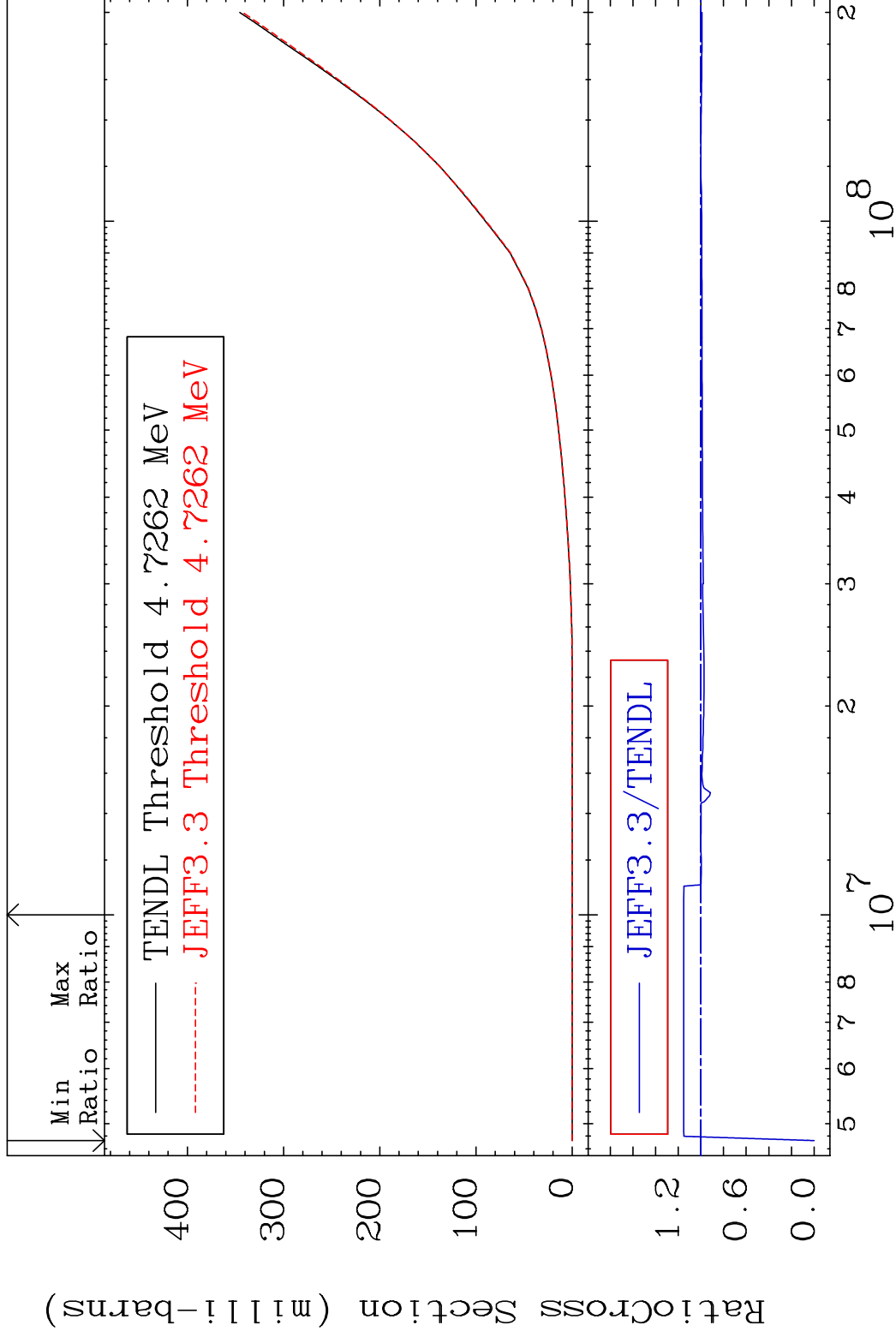


MAT 6234

He-3 Production

62-Sm-147

Cross Section -100.0 To 15.19 %



52

Incident Energy (eV)

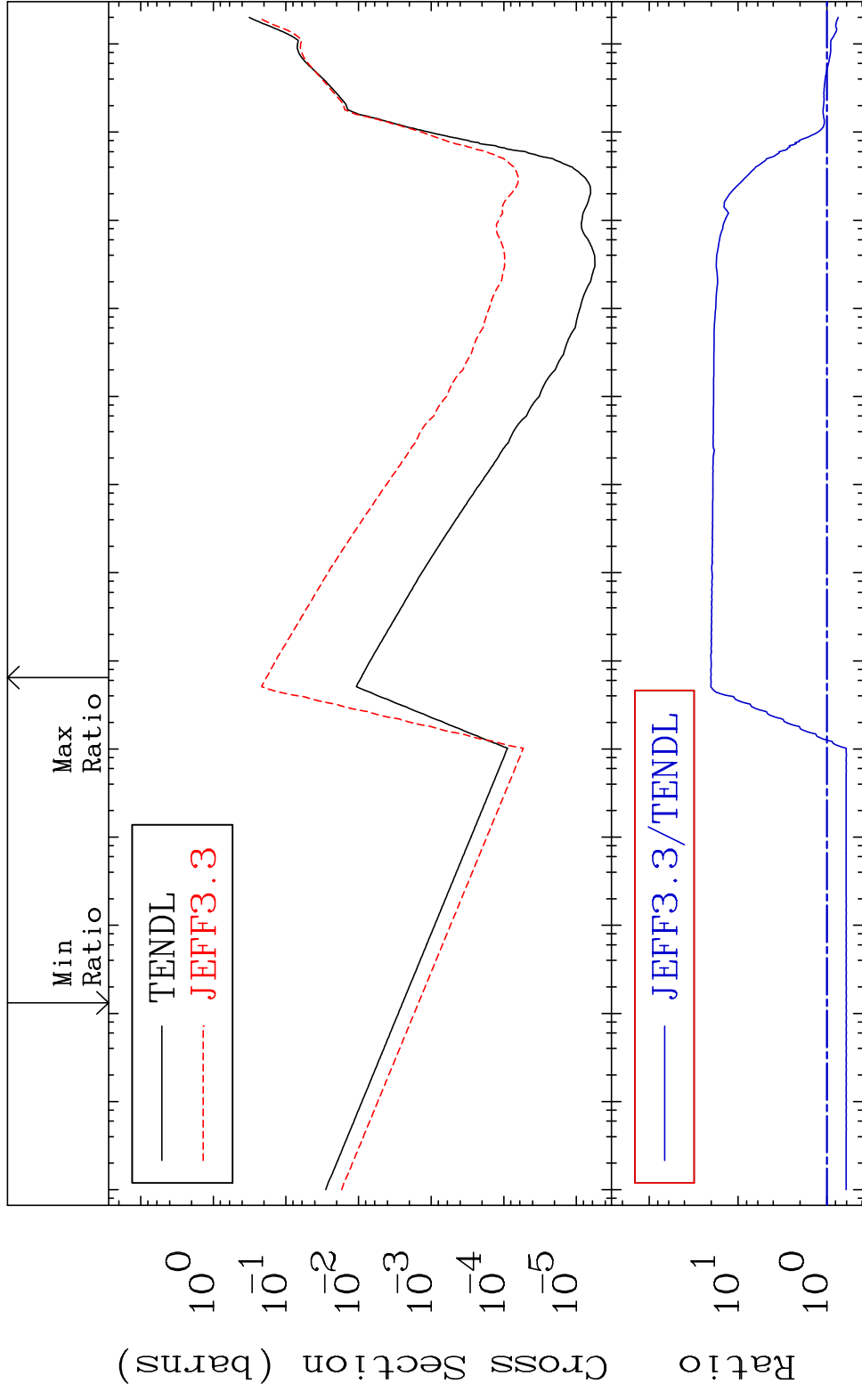
62-Sm-147

MAT 6234

He-4 Production

62-Sm-147

Cross Section -39.73 To 1926. %



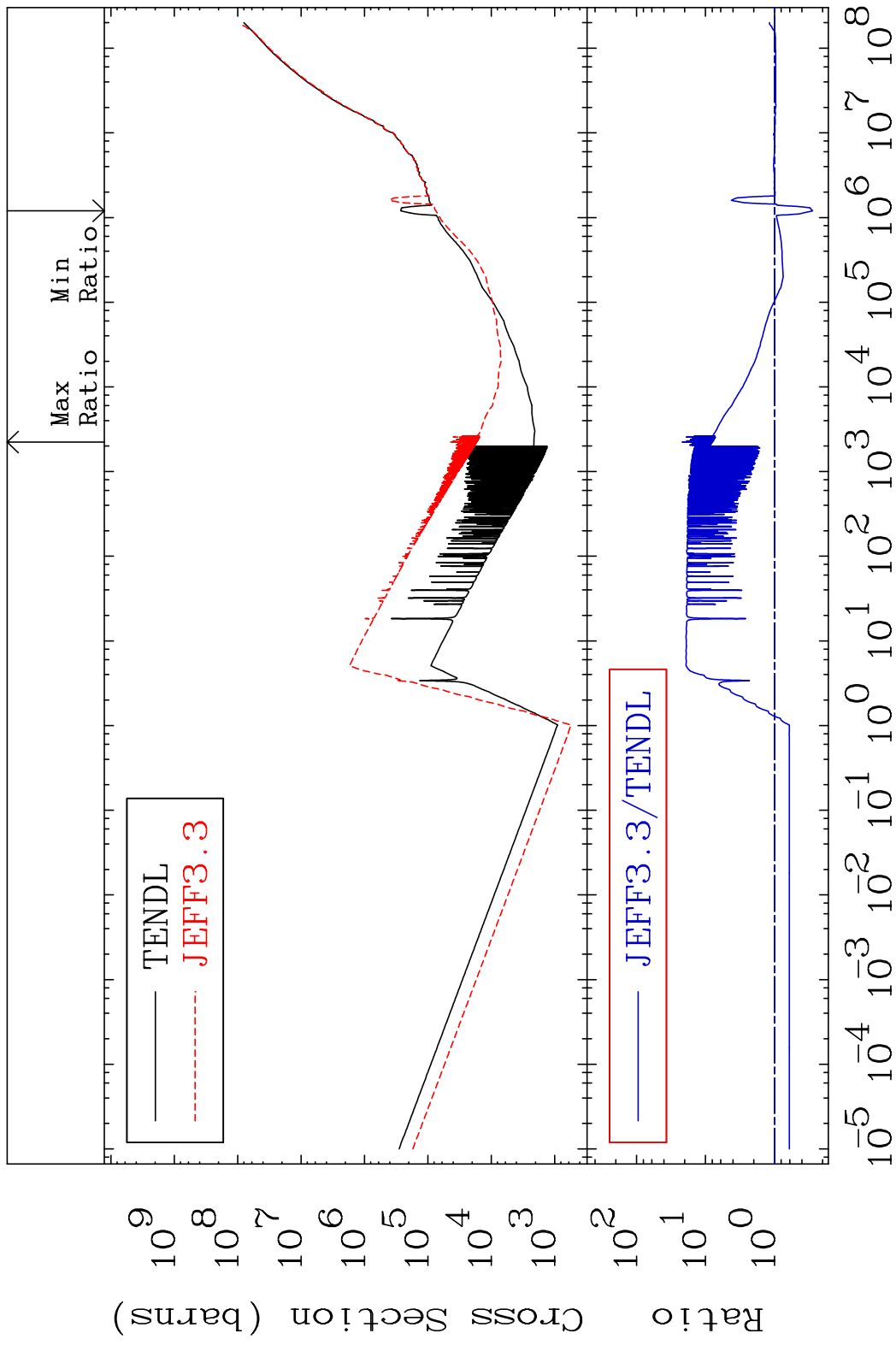
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

53

Incident Energy (eV)

62-Sm-147

MAT 6234 Kerma total (eV-barns) 62-Sm-147  
 Cross Section -72.03 To 2068. %

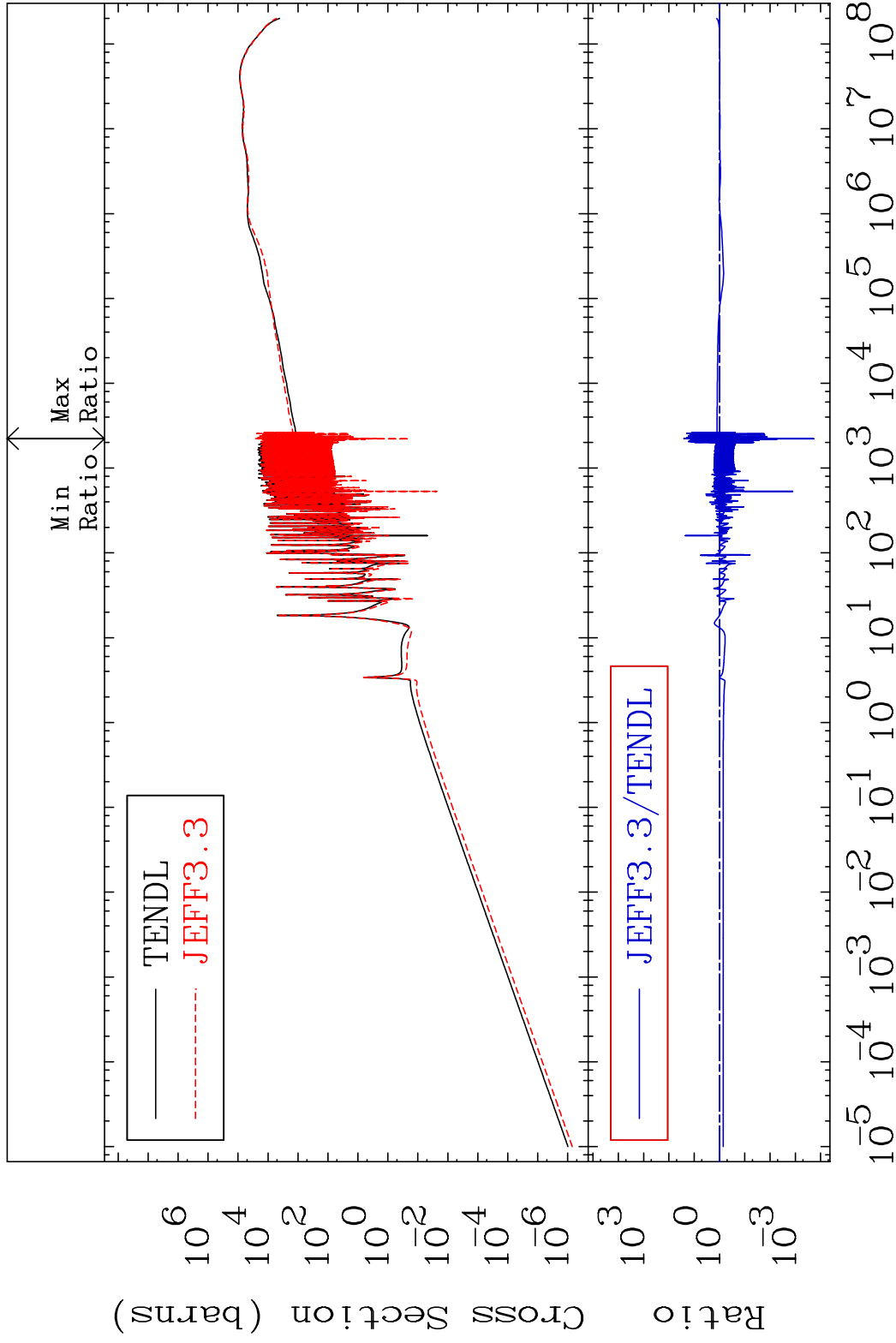


MAT 6234

Kerma elastic

62-Sm-147

Cross Section -99.98 To 2509. %

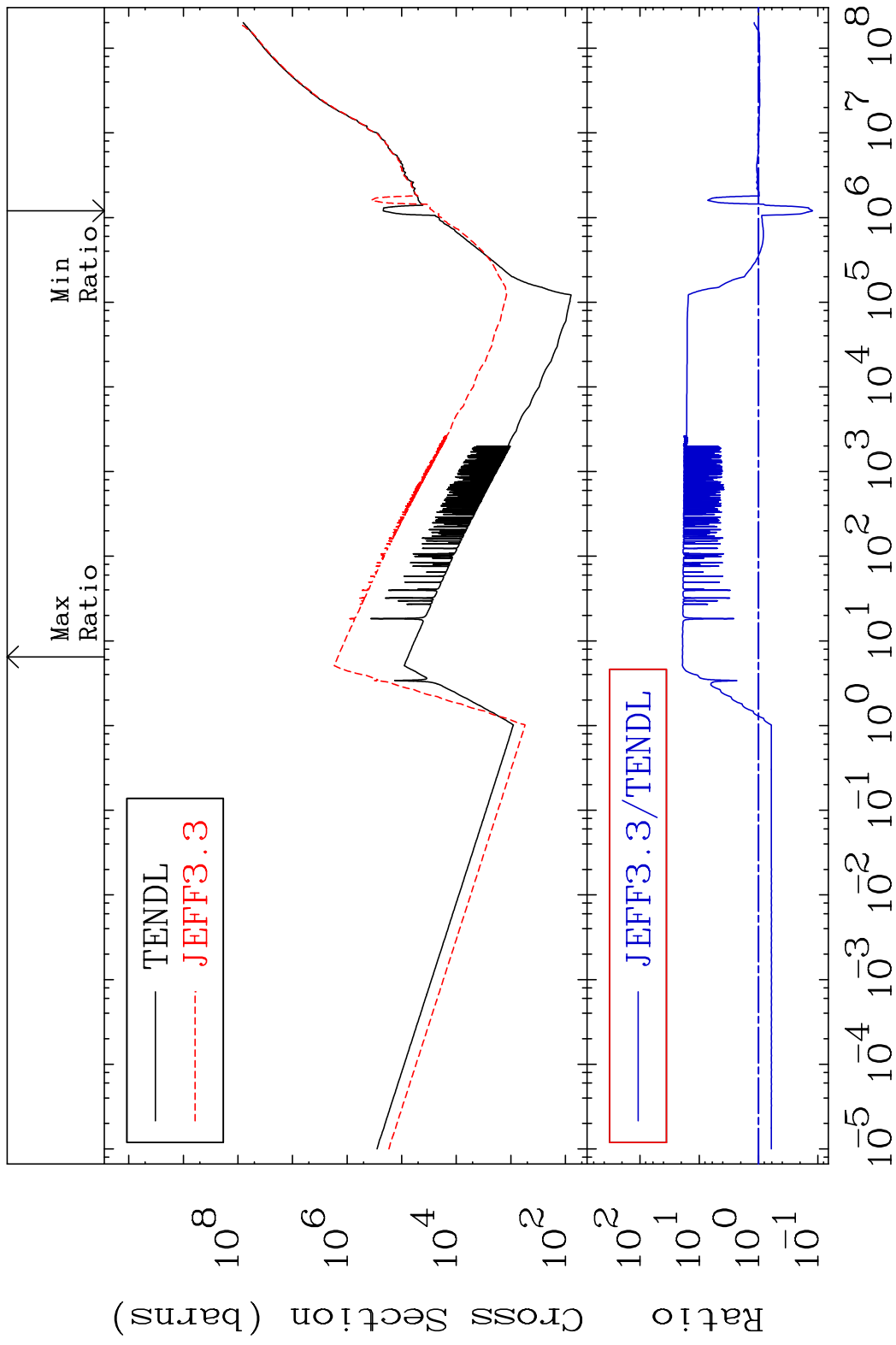


55

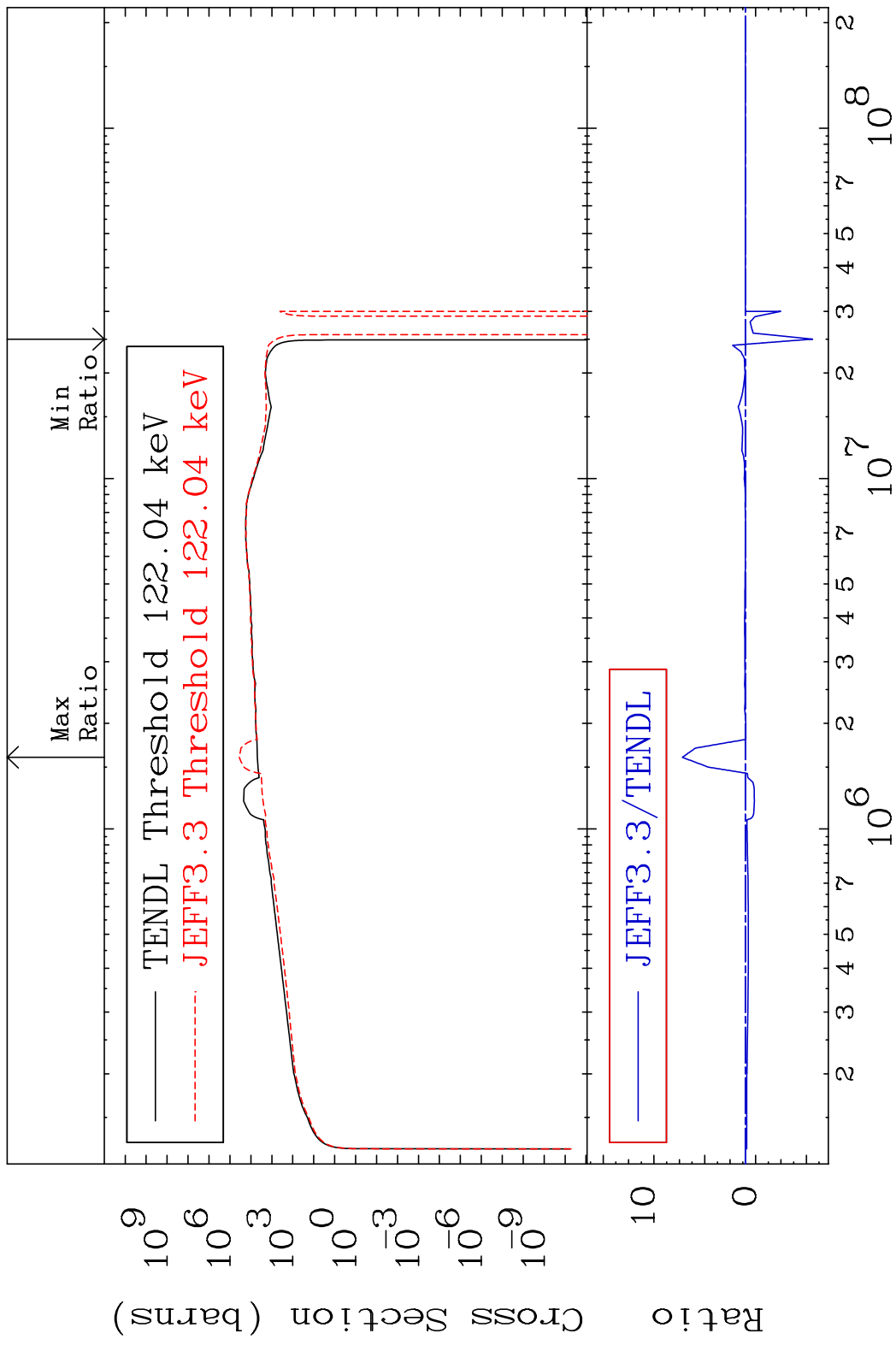
Incident Energy (eV)

62-Sm-147

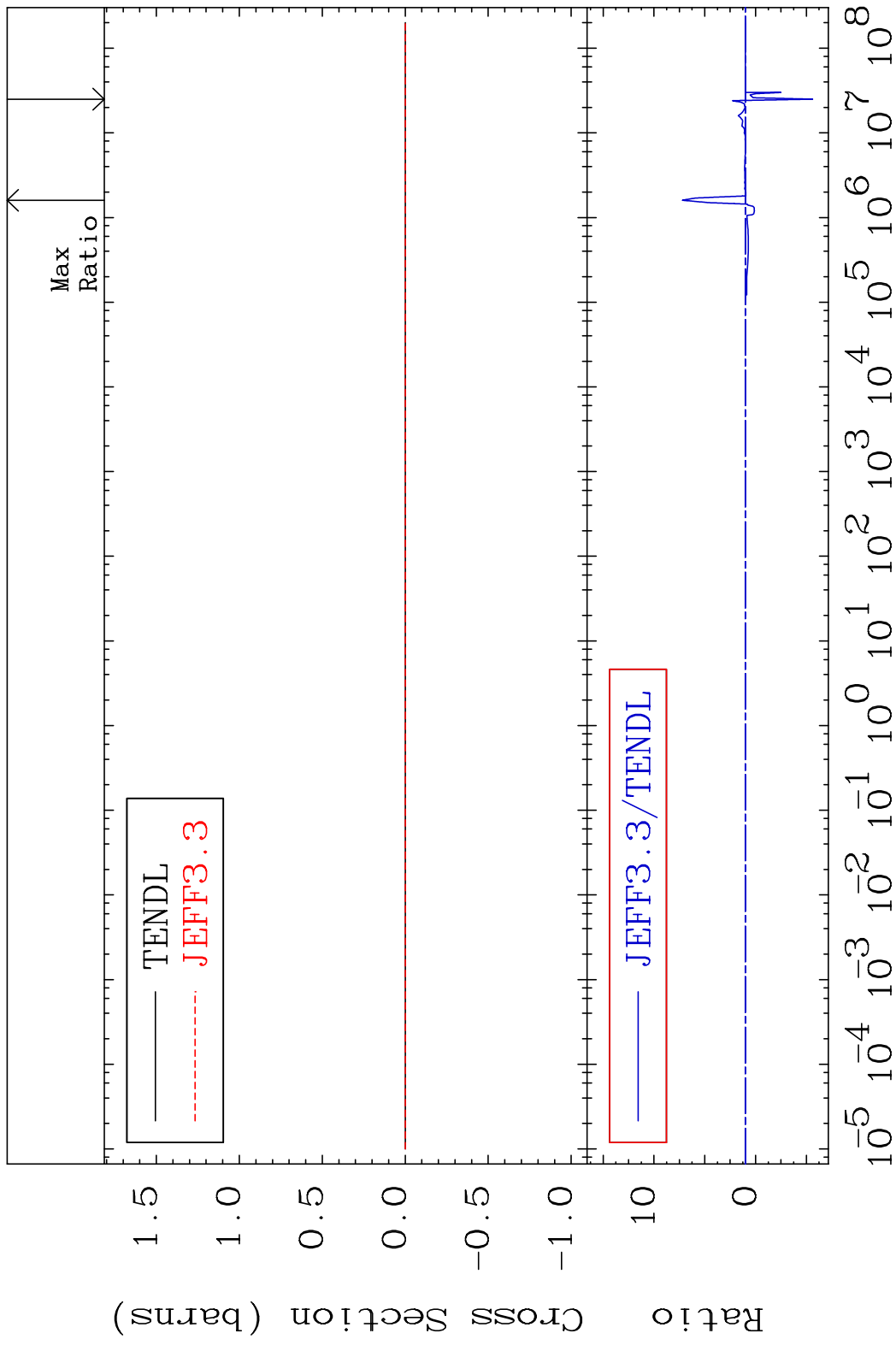
MAT 6234 Kerma non-elastic (all but mt2) 62-Sm-147  
 Cross Section -87.70 To 1823. %



MAT 6234 Kerma inelastic (mt51-91) 62-Sm-147  
 Cross Section -661.1 To 620.5 %

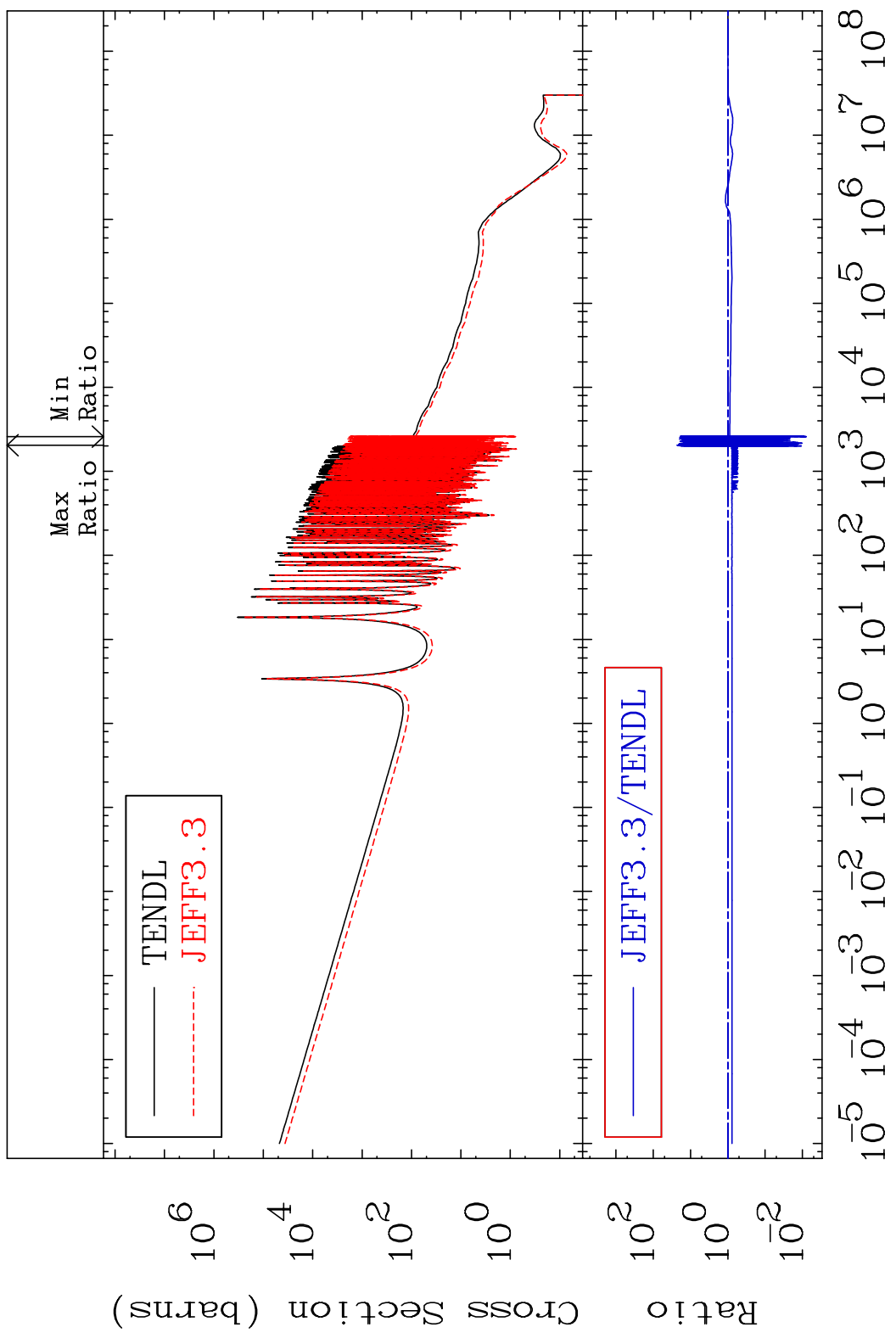


MAT 6234 Kerma fission (mt18 or mt19-20-21-38)  $^{62}\text{Sm}$ -147  
 Cross Section -661.1 To 620.5 %



MAT 6234

Kerma capture (mt102) 62-Sm-147  
Cross Section -99.22 To 2176. %

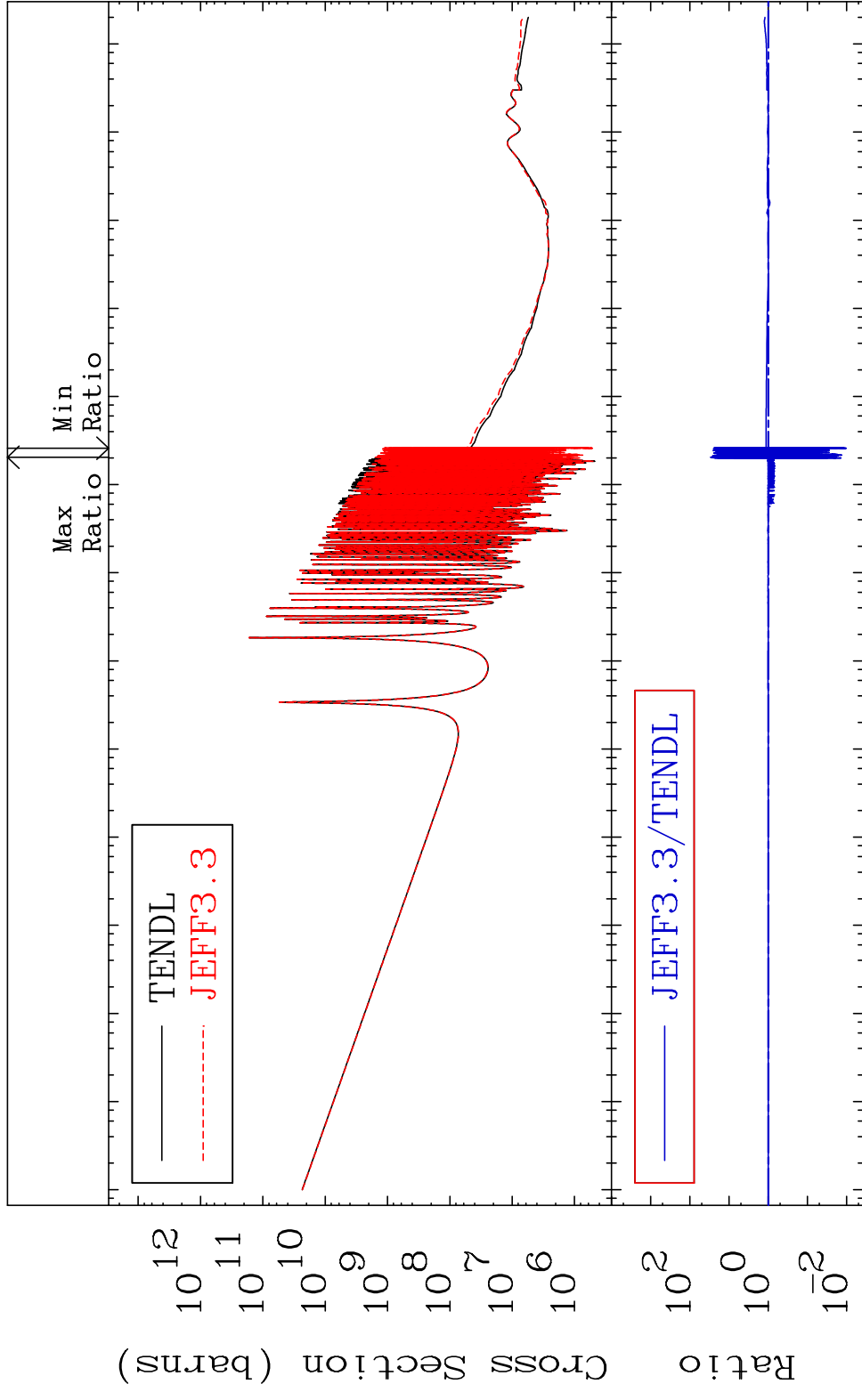


59

Incident Energy (eV) 62-Sm-147

MAT 6234

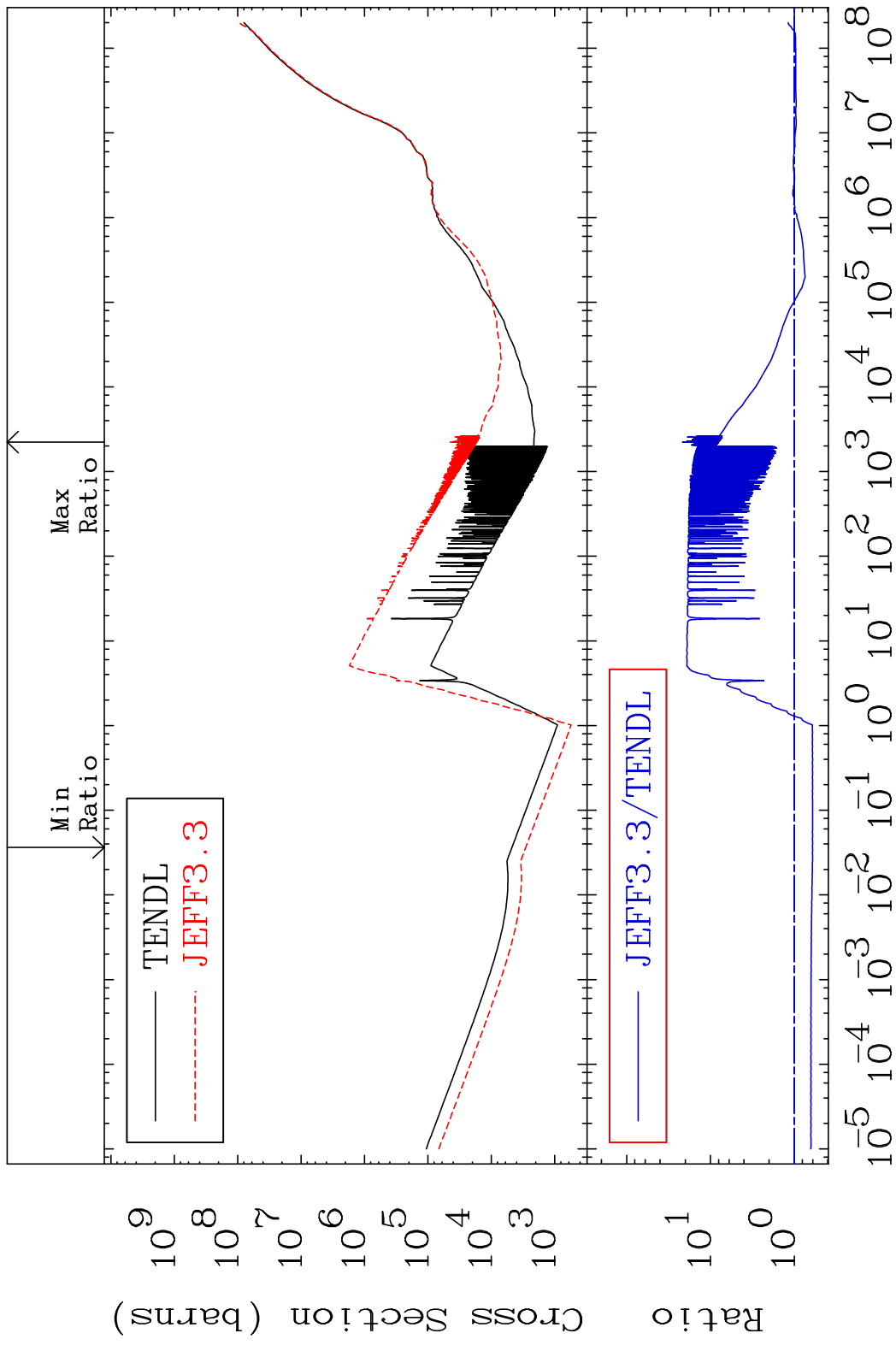
Total photon (eV-barns) 62-Sm-147  
Cross Section -98.98 To 2833. %



60

Incident Energy (eV) 62-Sm-147

MAT 6234 Total kinematic kerma (high limit) 62-Sm-147  
 Cross Section -39.40 To 2066. %

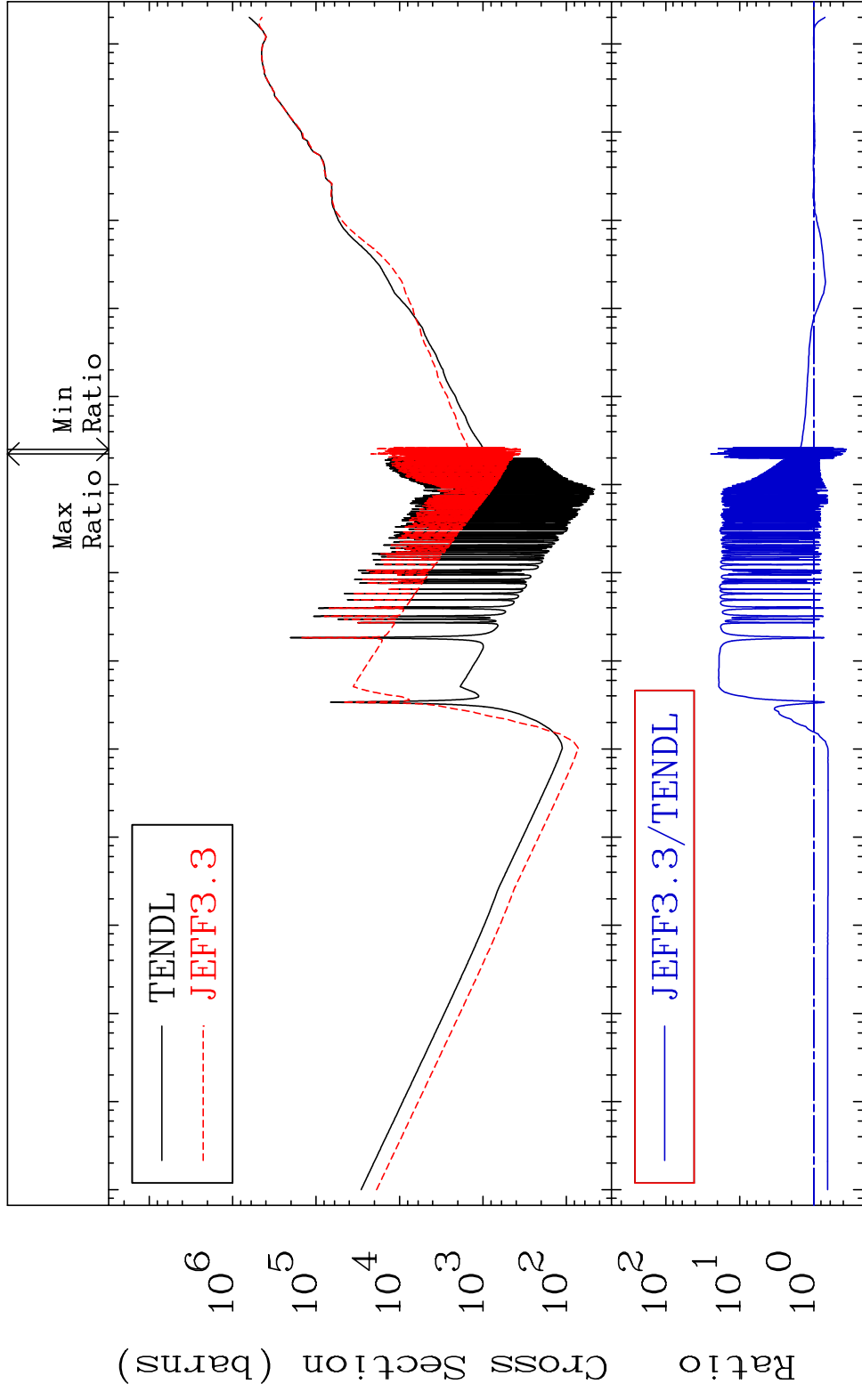


MAT 6234

Dpa total (eV-barns)

62-Sm-147

Cross Section -63.61 To 2371. %



62

Incident Energy (eV)

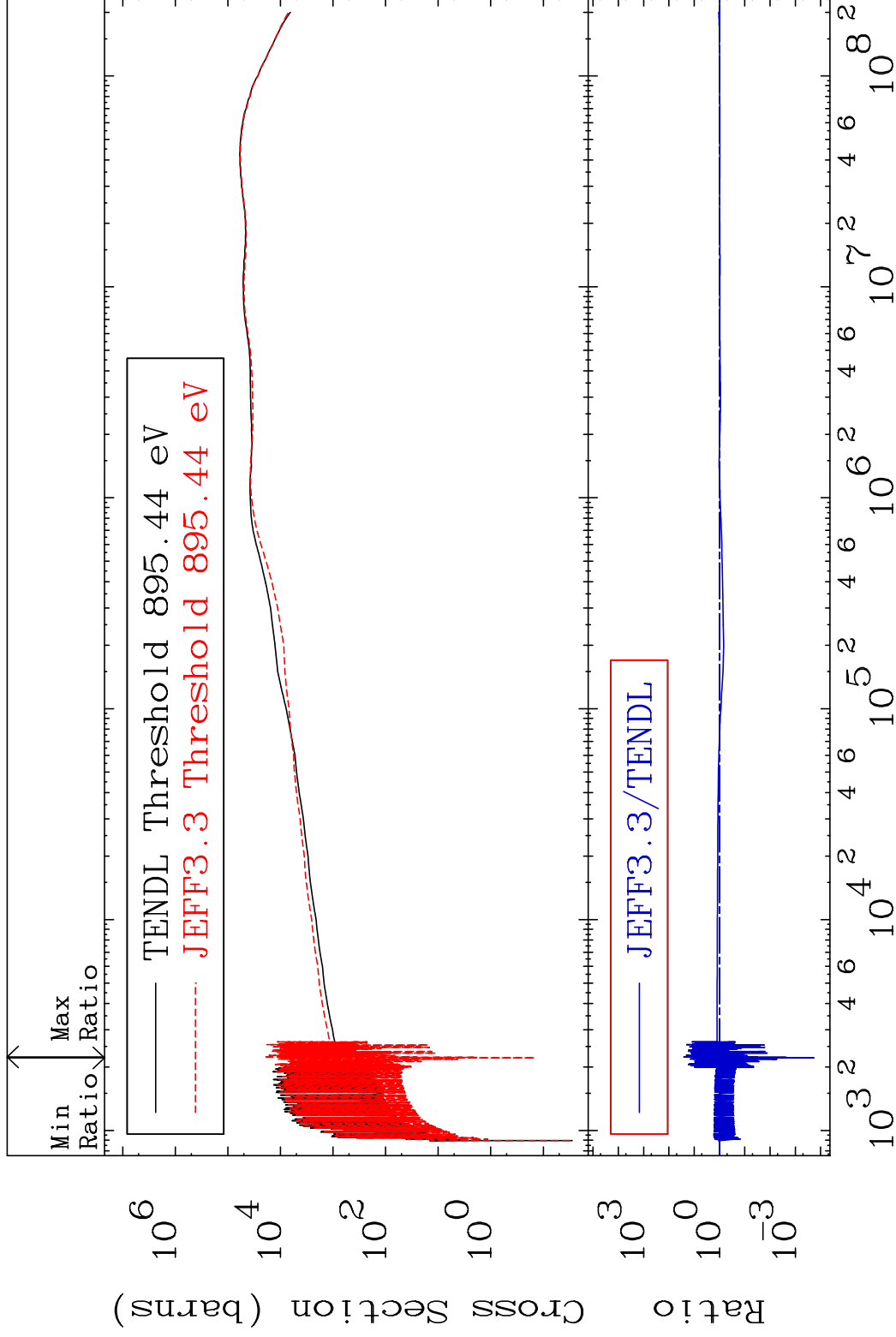
62-Sm-147

MAT 6234

Dpa elastic (mt2)

62-Sm-147

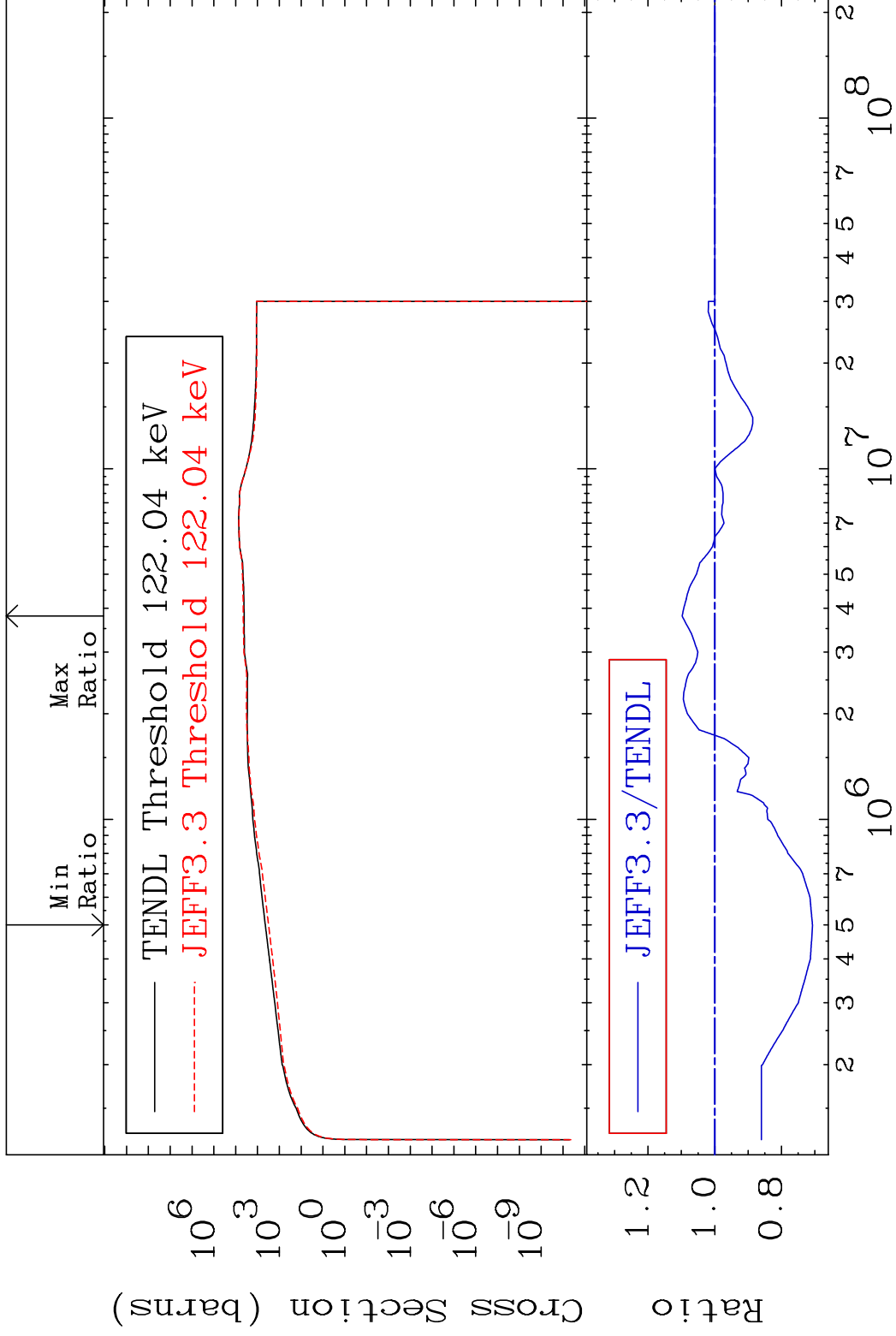
Cross Section -99.98 To 2509. %



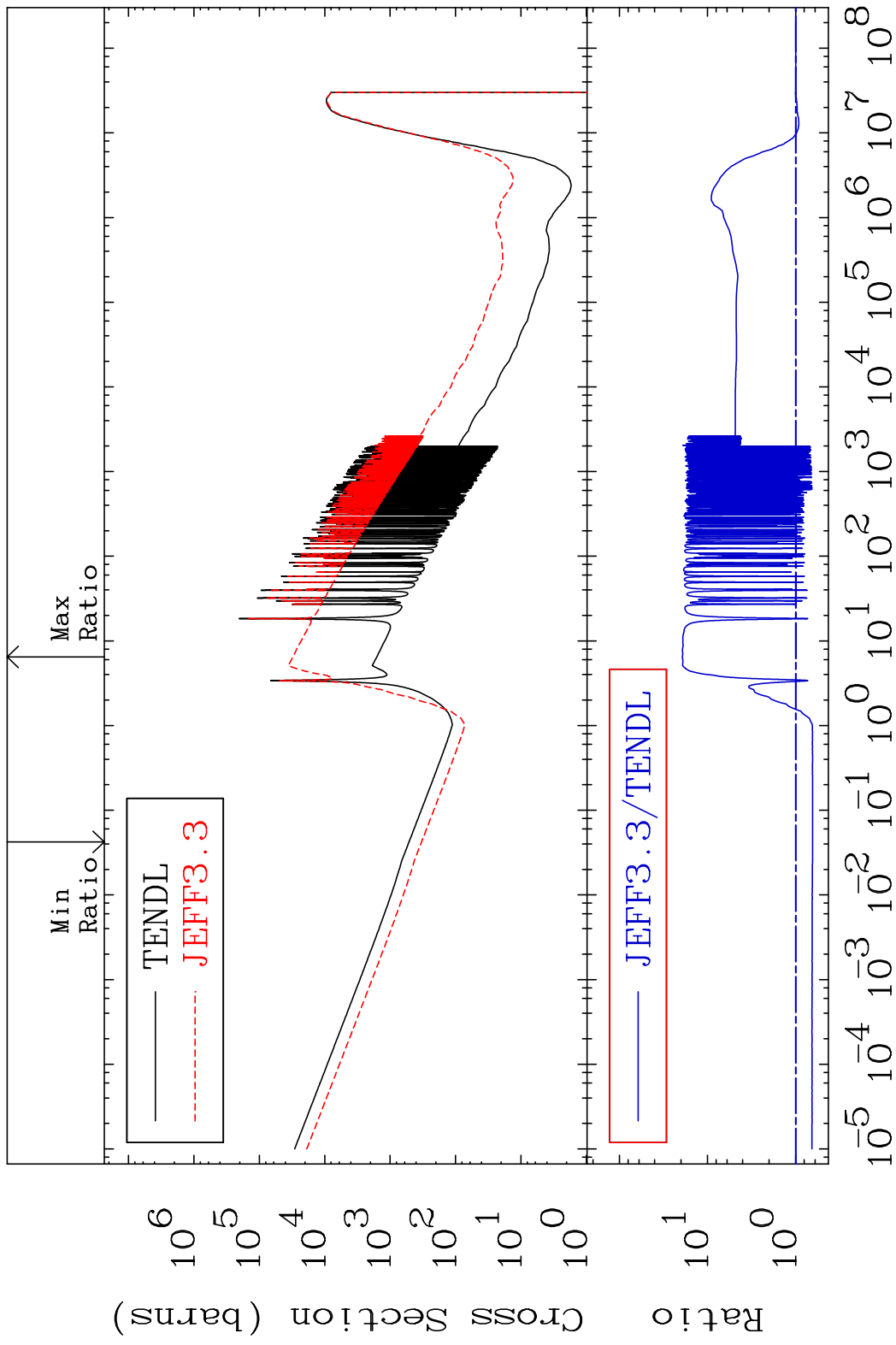
63

Incident Energy (eV)

62-Sm-147



MAT 6234 Dpa disappearance (mt102 -120) 62-Sm-147  
 Cross Section -35.77 To 1834. %



65 Incident Energy (eV) 62-Sm-147

