

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

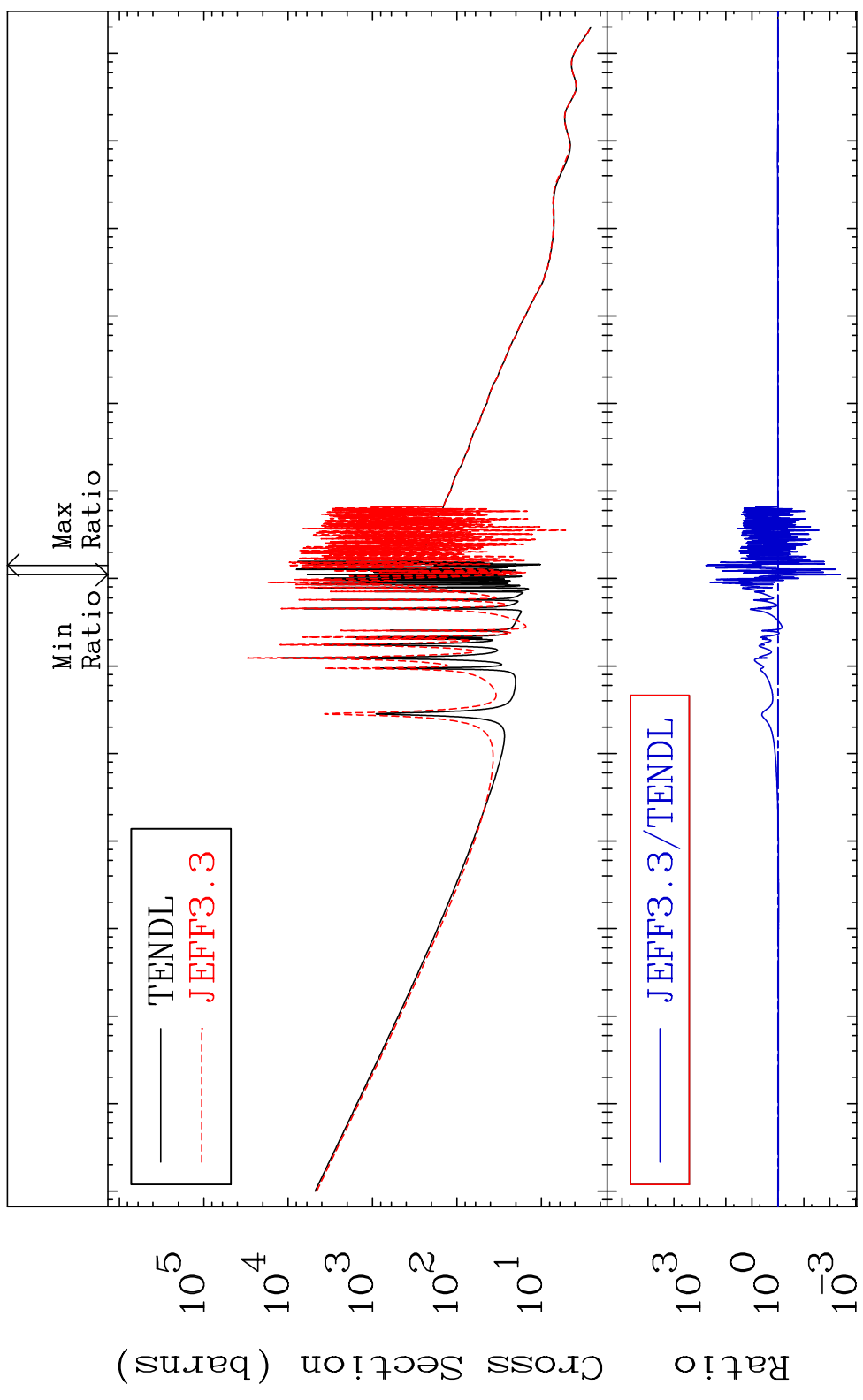
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6928

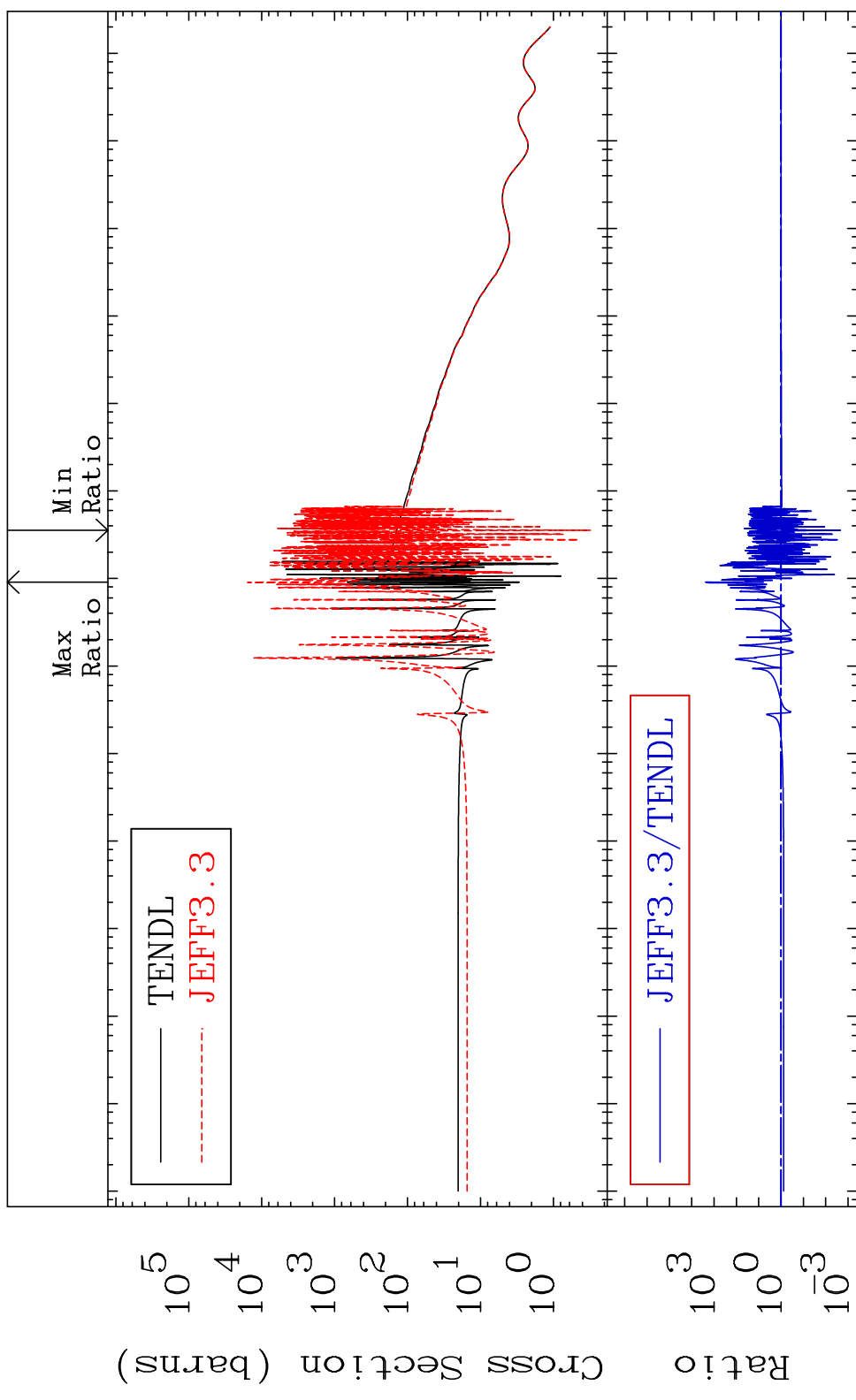
Total Cross Section -99.61 To 9999. %  
69-Tm-170



1 Incident Energy (eV) 69-Tm-170

MAT 6928

Elastic Cross Section -99.78 To 9999. % 69-Tm-170



2

Incident Energy (eV)

69-Tm-170

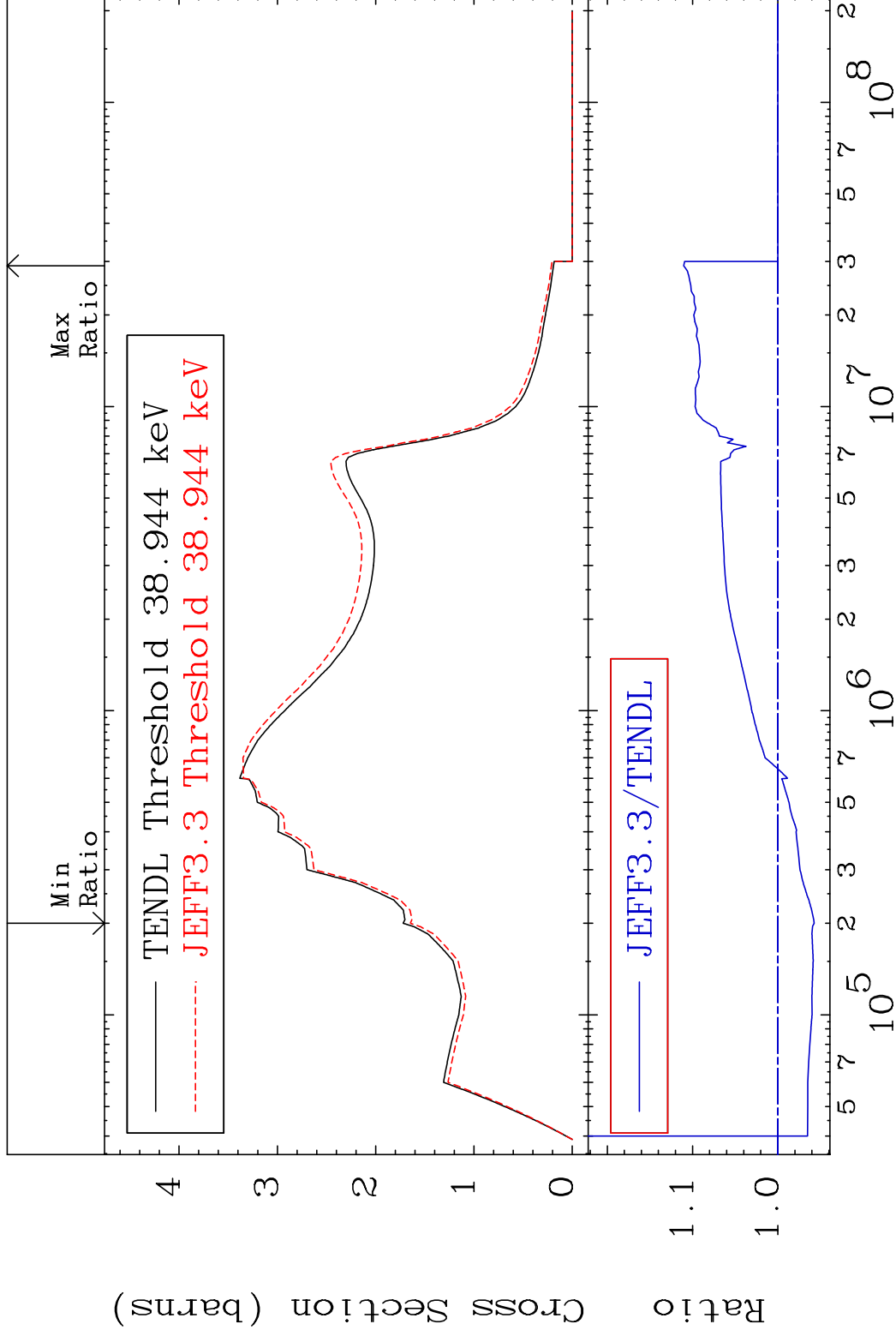
MAT 6928

Inelastic

69-Tm-170

Cross Section

-4.254 To 11.04 %



3

Incident Energy (eV)

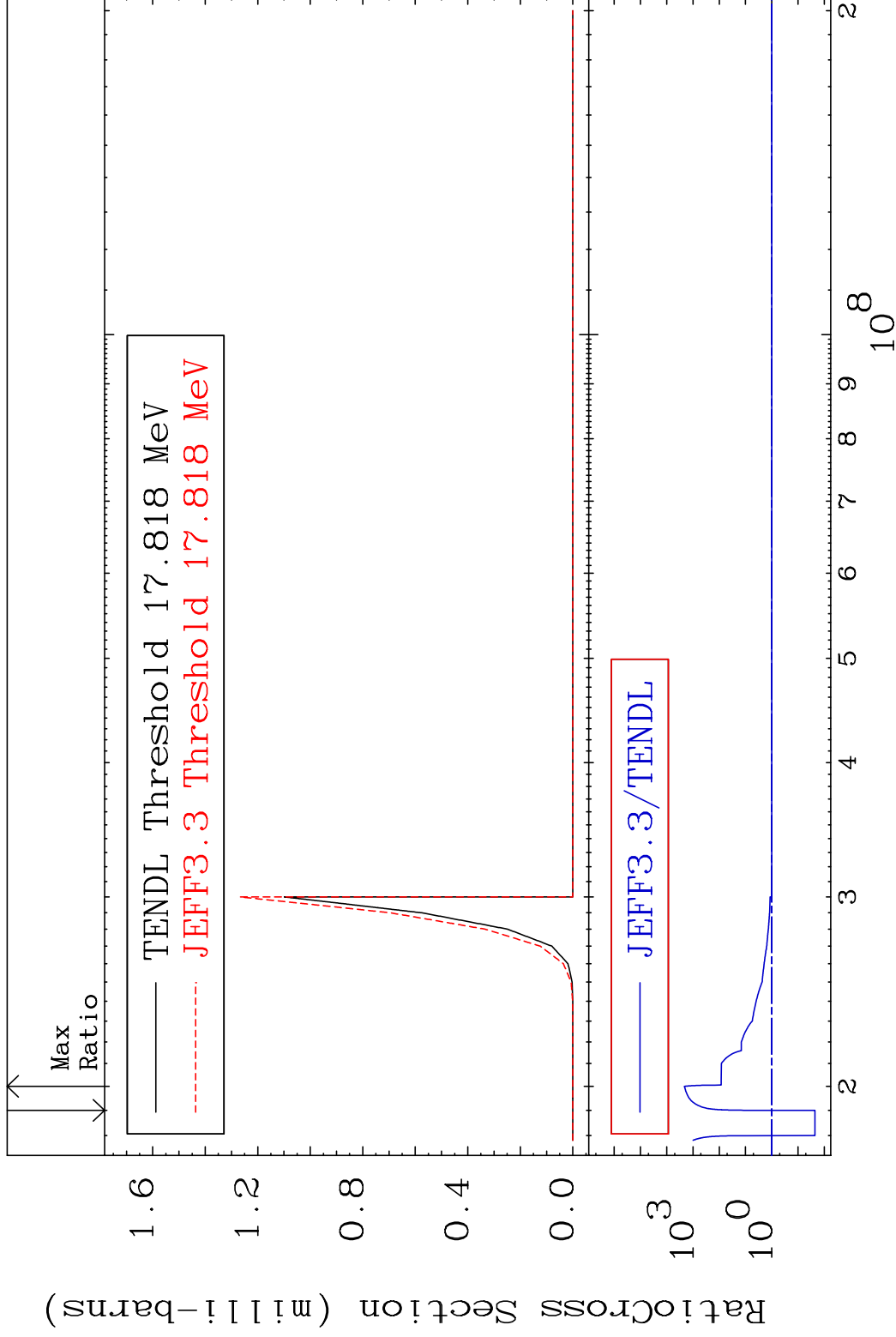
69-Tm-170

MAT 6928

(n,2n) d

69-Tm-170

Cross Section -97.73 To 9999. %



4

Incident Energy (eV)

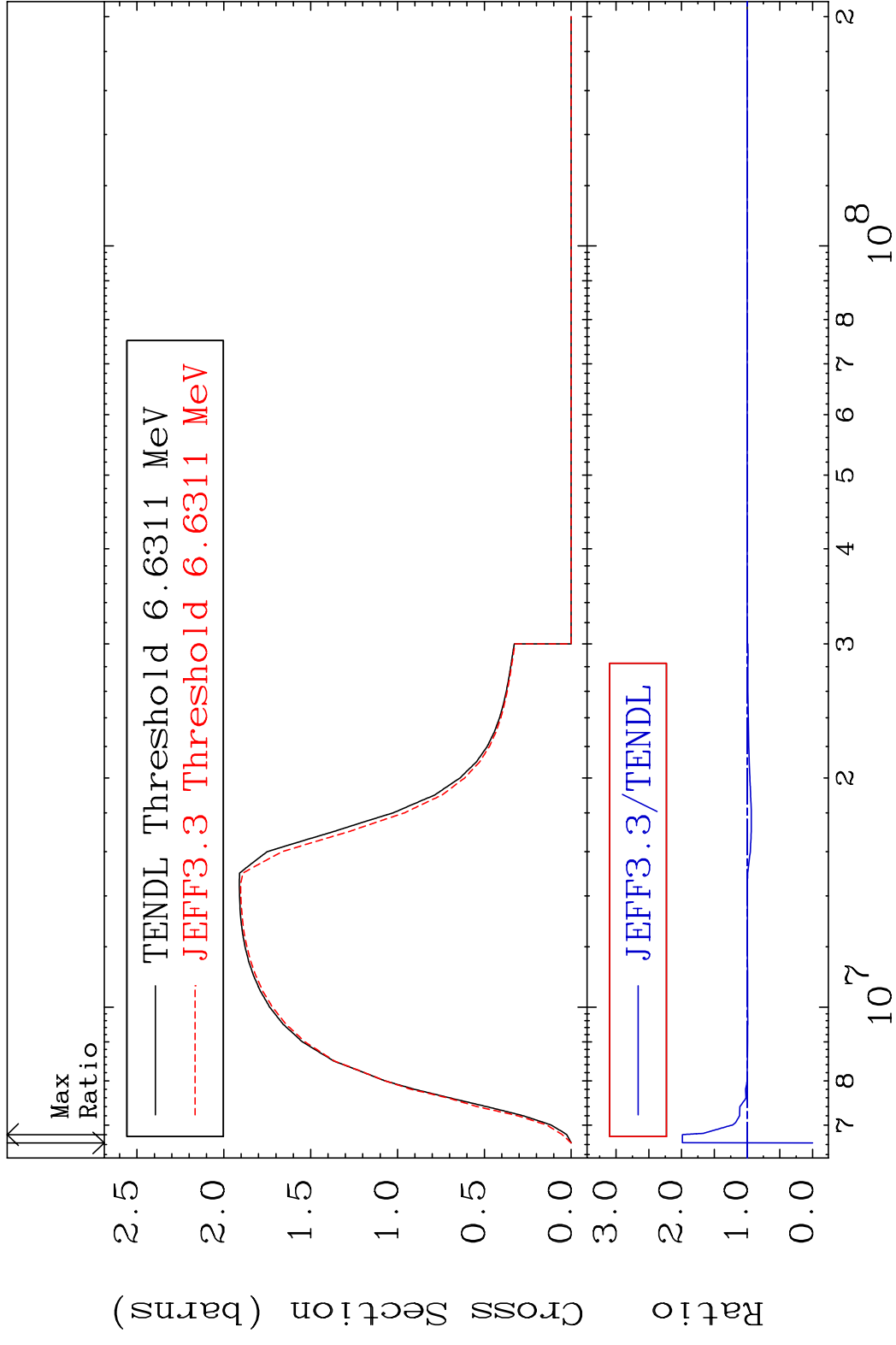
69-Tm-170

MAT 6928

(n,2n)

69-Tm-170

Cross Section -100.0 To 98.81 %

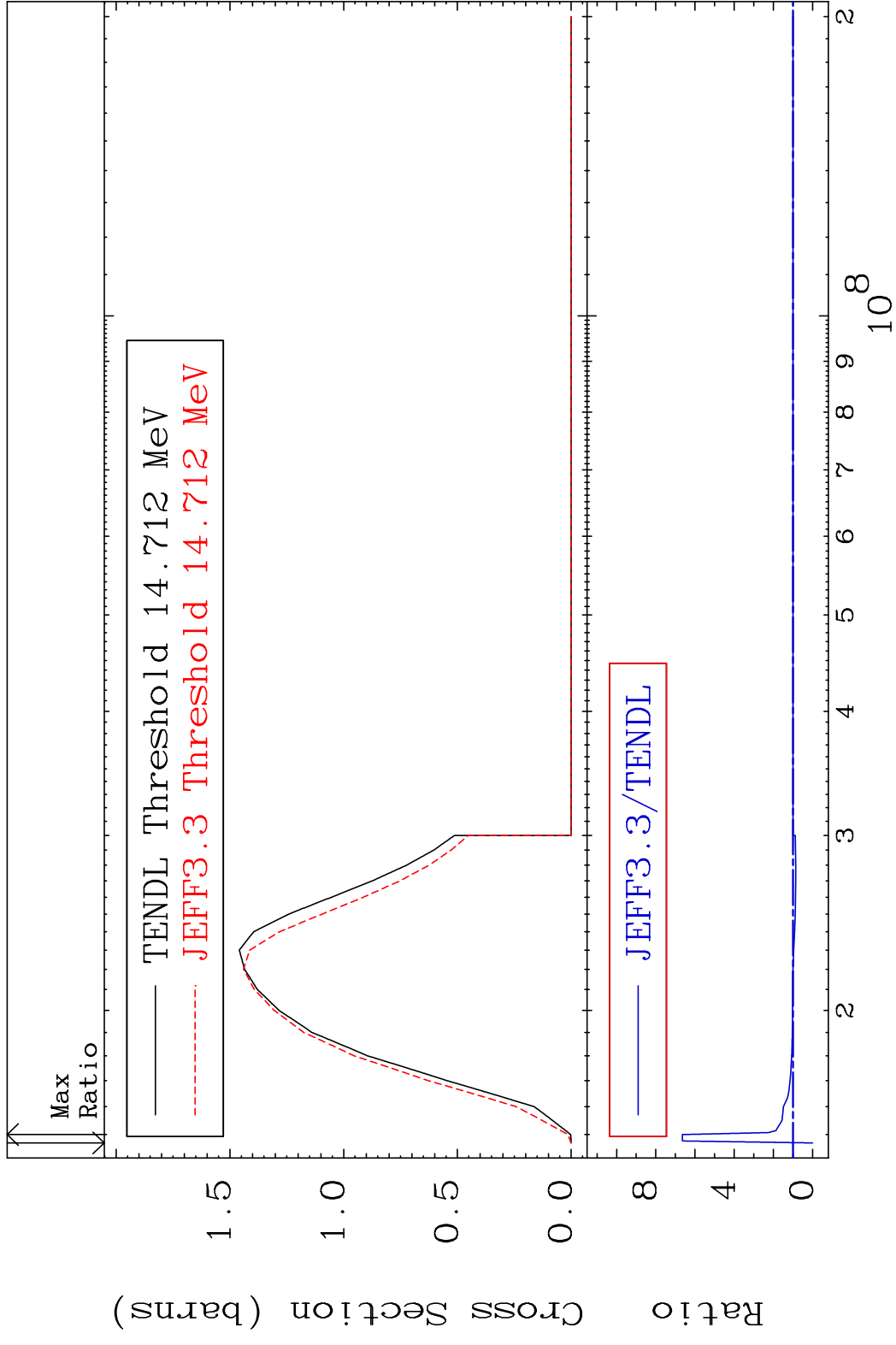


MAT 6928

(n,3n)

69-Tm-170

Cross Section -100.0 To 564.5 %



6

Incident Energy (eV)

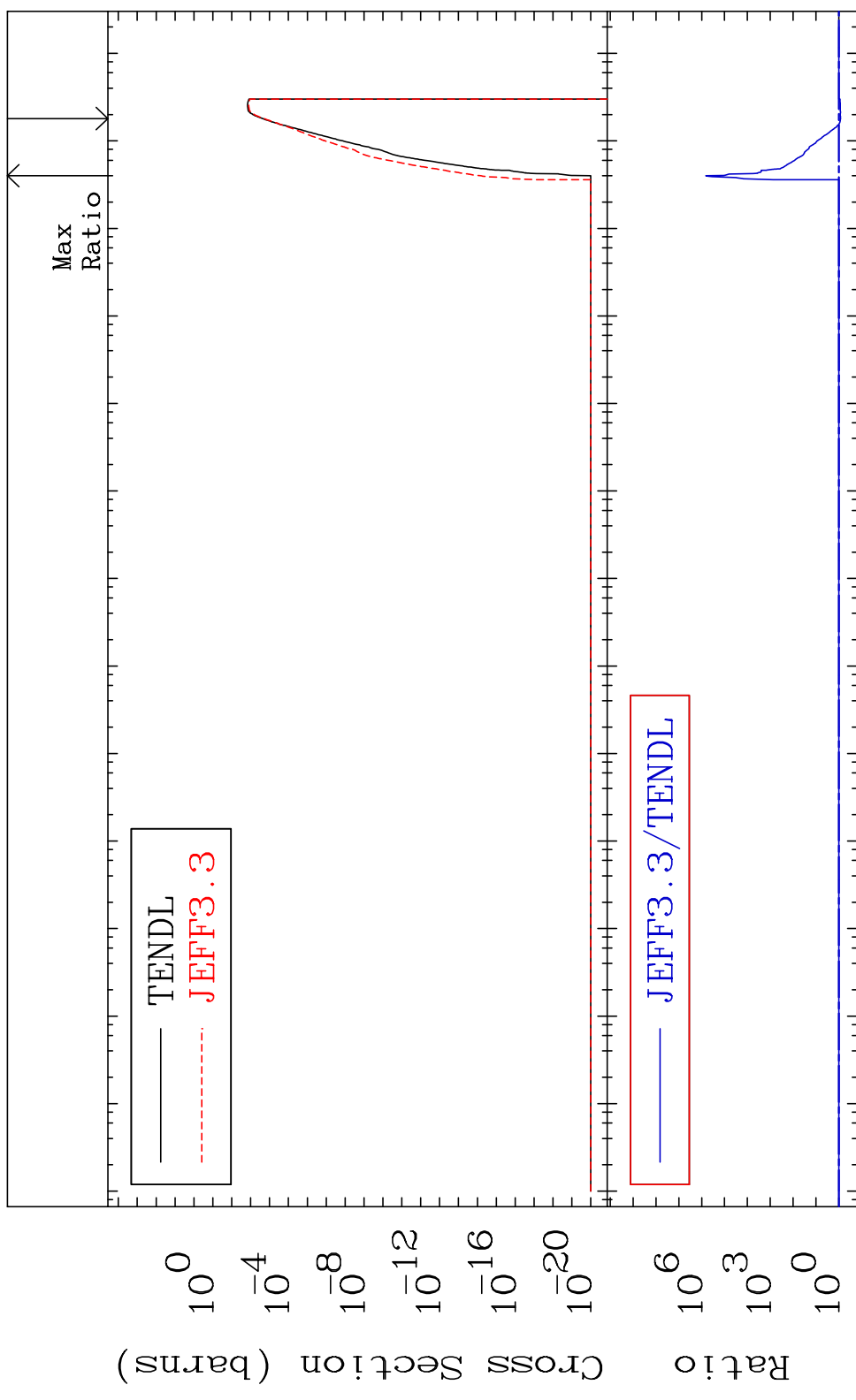
69-Tm-170

MAT 6928

(n, n')  $\alpha$

69-Tm-170

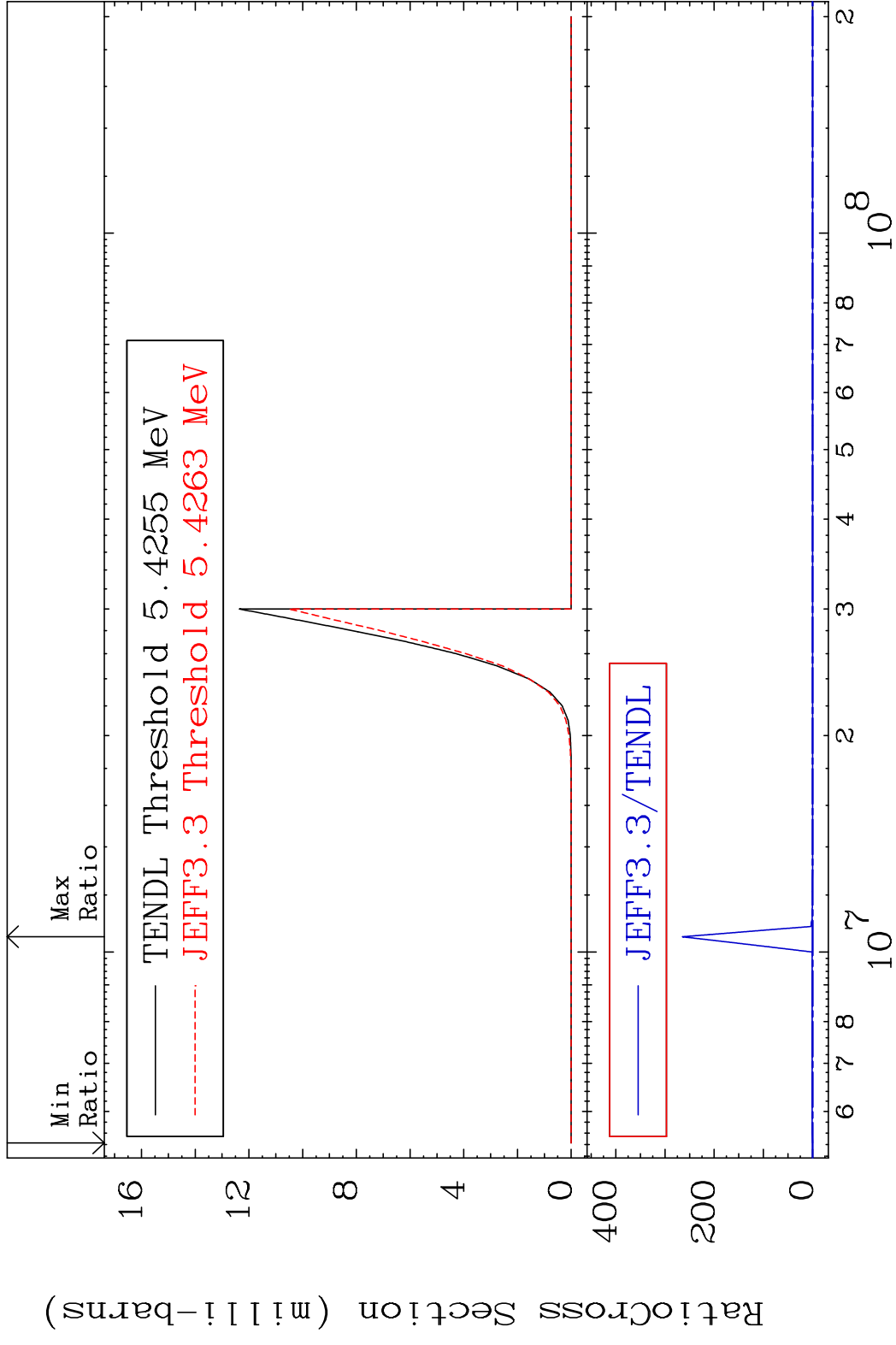
Cross Section -15.57 To 9999. %



Ratio  $10^6$   $10^3$   $10^0$   $10^{-3}$   $10^{-4}$   $10^{-5}$   $10^{-8}$   $10^{-12}$   $10^{-16}$   $10^{-20}$

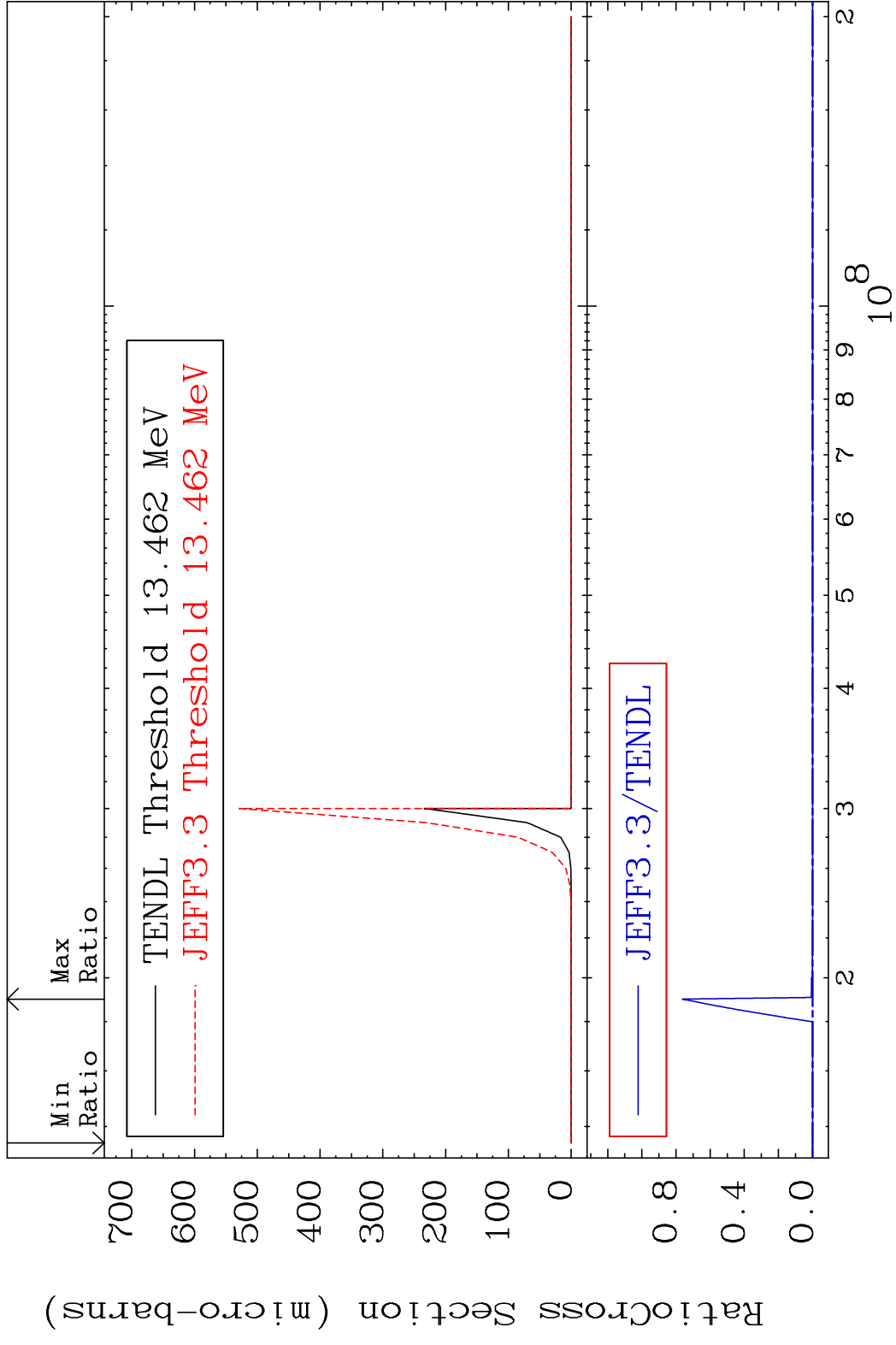
7 Incident Energy (eV) 69-Tm-170

MAT 6928 (n,2n)  $\alpha$  69-Tm-170  
 Cross Section -100.0 To 9999. %



8 8 69-Tm-170

MAT 6928 (n,3n)  $\alpha$  69-Tm-170  
 Cross Section -100.0 To 9999. %

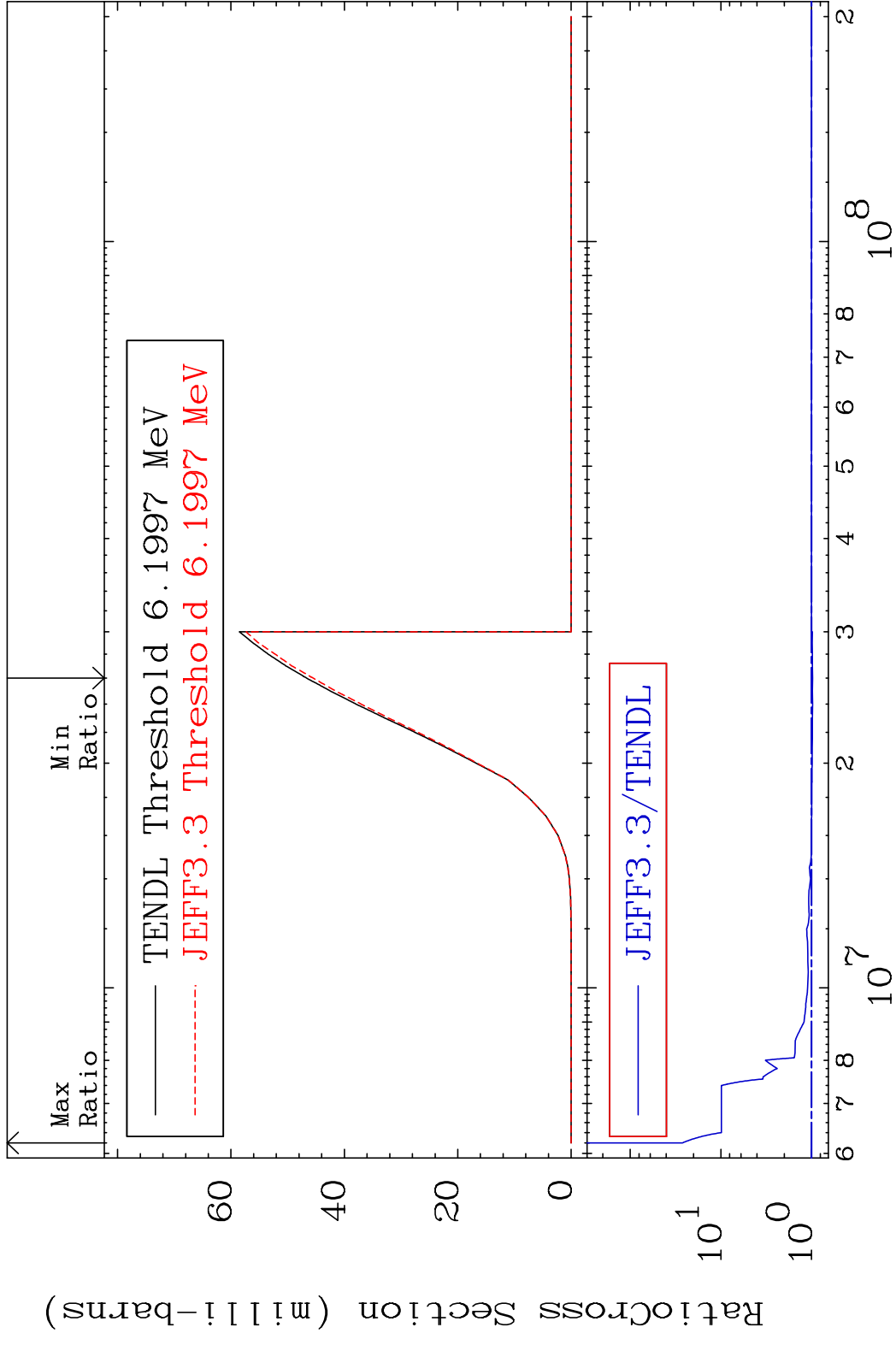


MAT 6928

69-Tm-170

(n, n') p

Cross Section -2.449 To 2559. %



10

Incident Energy (eV)

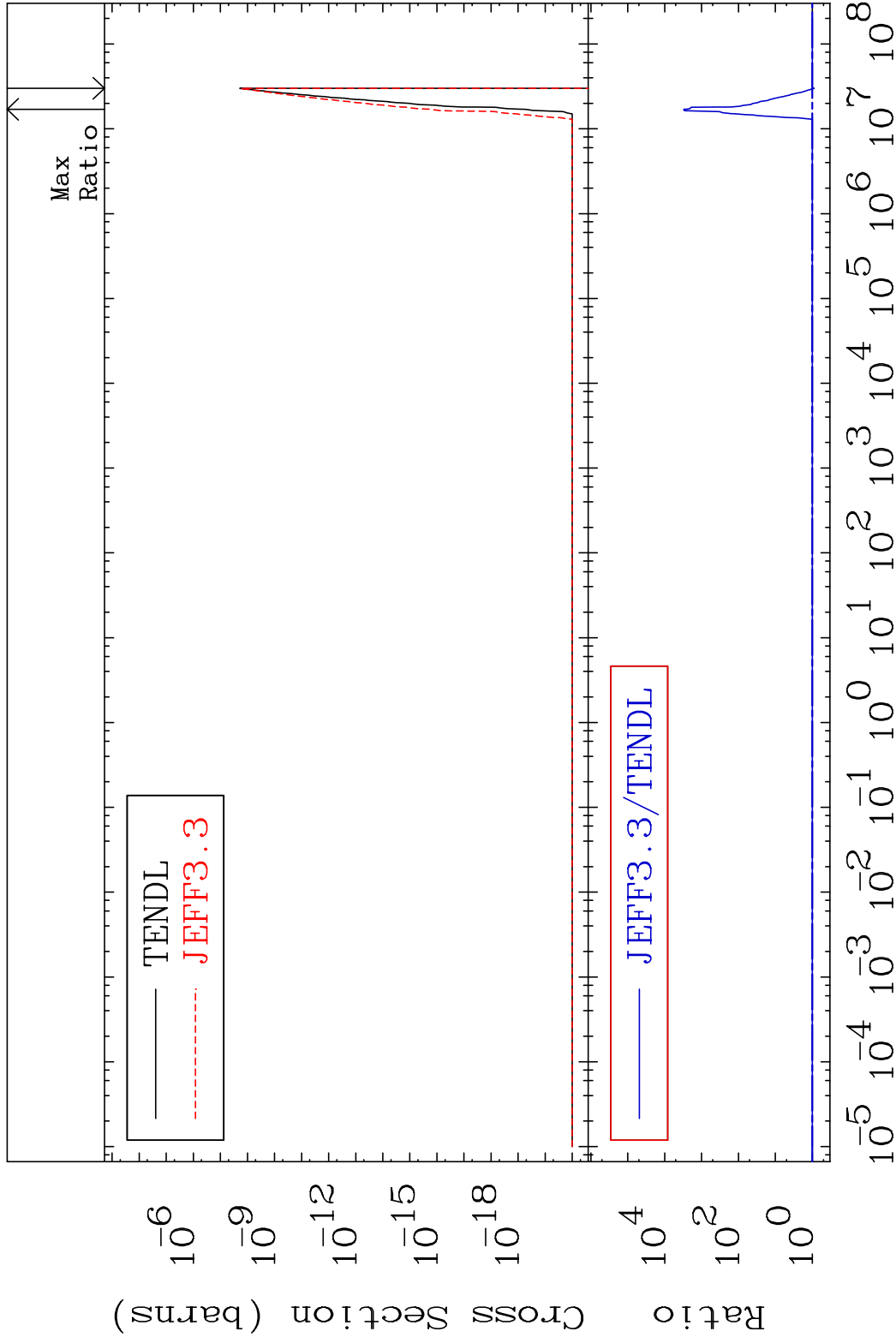
69-Tm-170

MAT 6928

(n, n') 2α

69-Tm-170

Cross Section -10.59 To 9999. %



11

Incident Energy (eV)

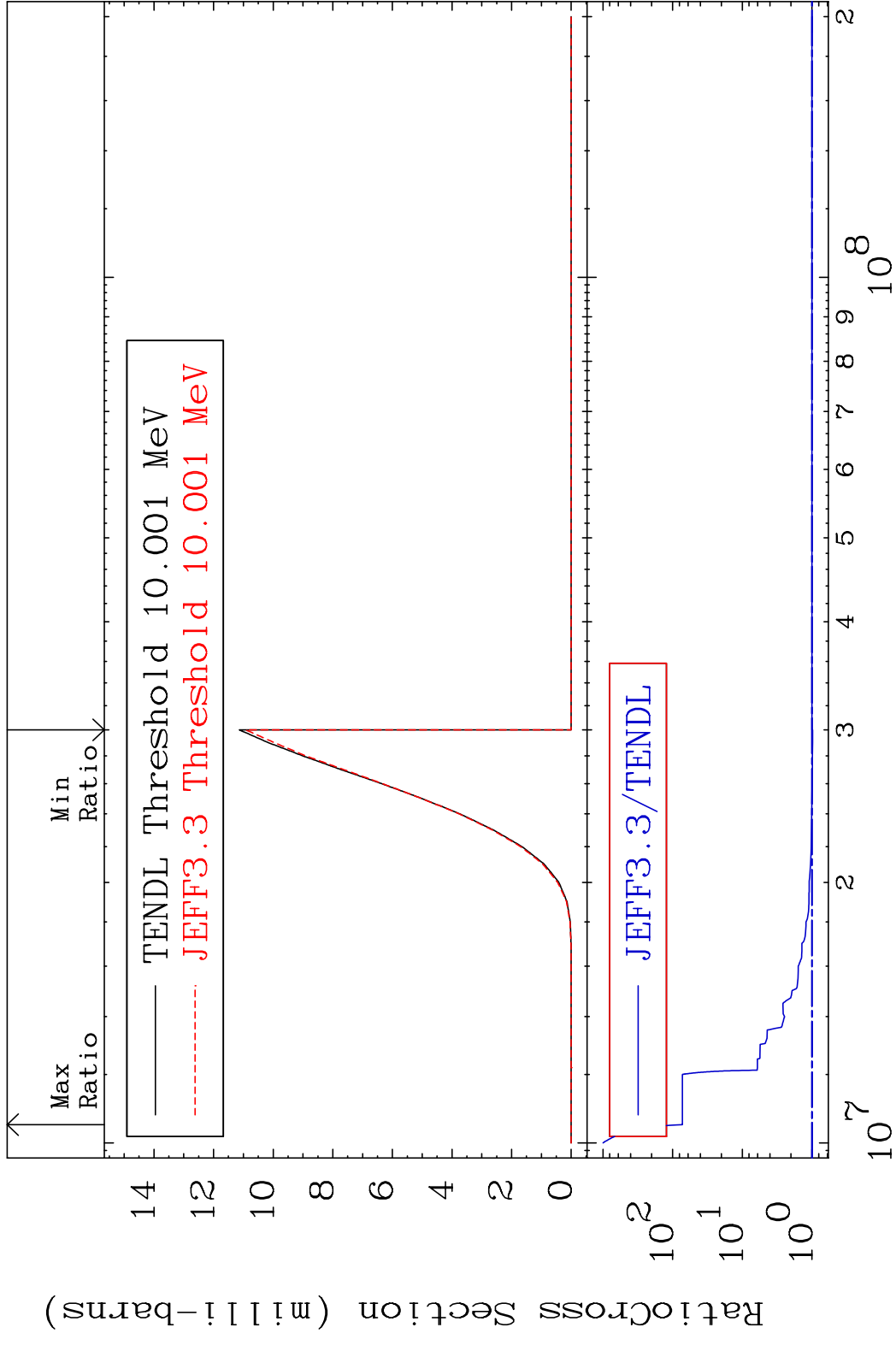
69-Tm-170

MAT 6928

(n, n') d

69-Tm-170

Cross Section -1.998 To 7144. %



12

Incident Energy (eV)

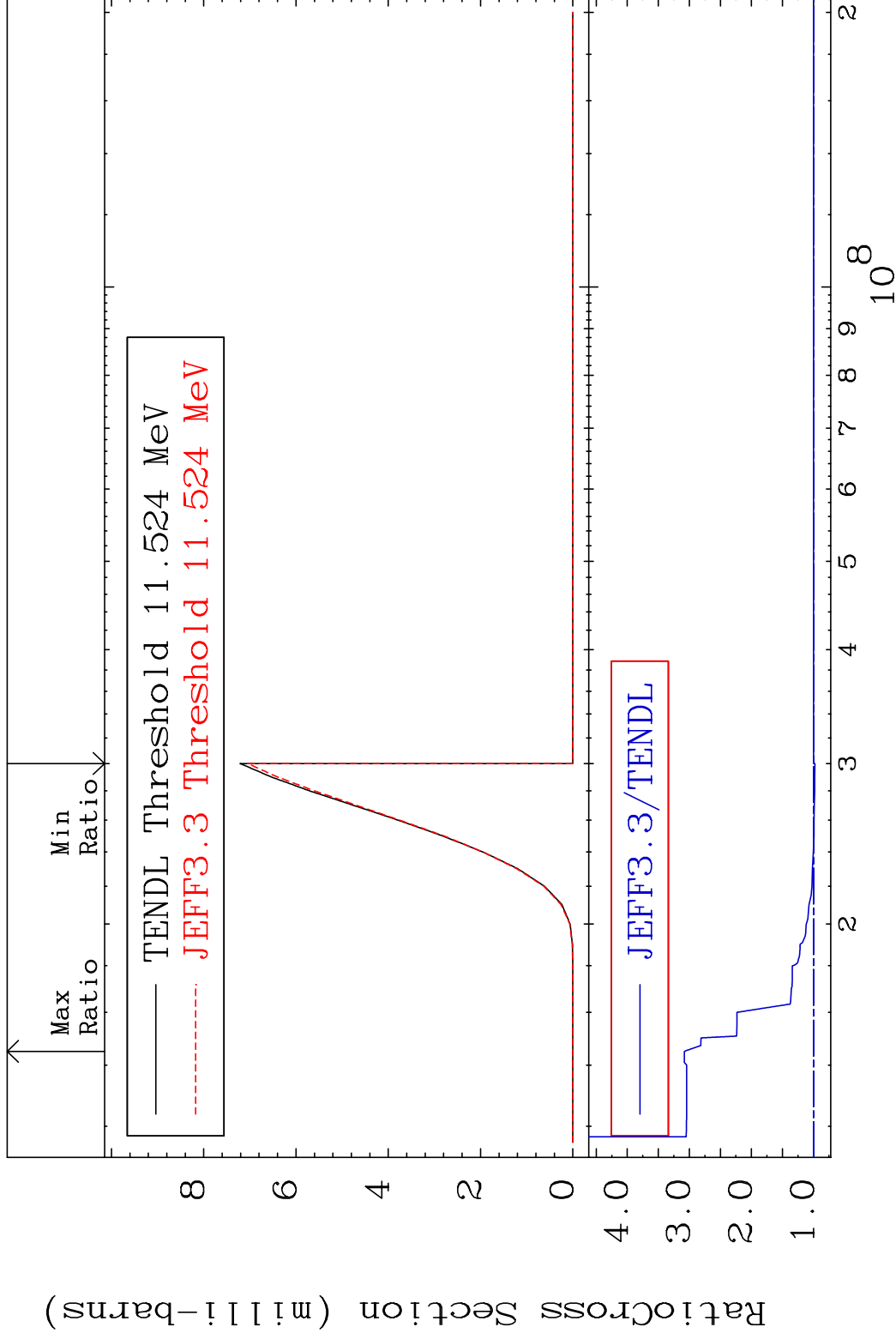
69-Tm-170

MAT 6928

(n, n') t

69-Tm-170

Cross Section -2.272 To 208.1 %

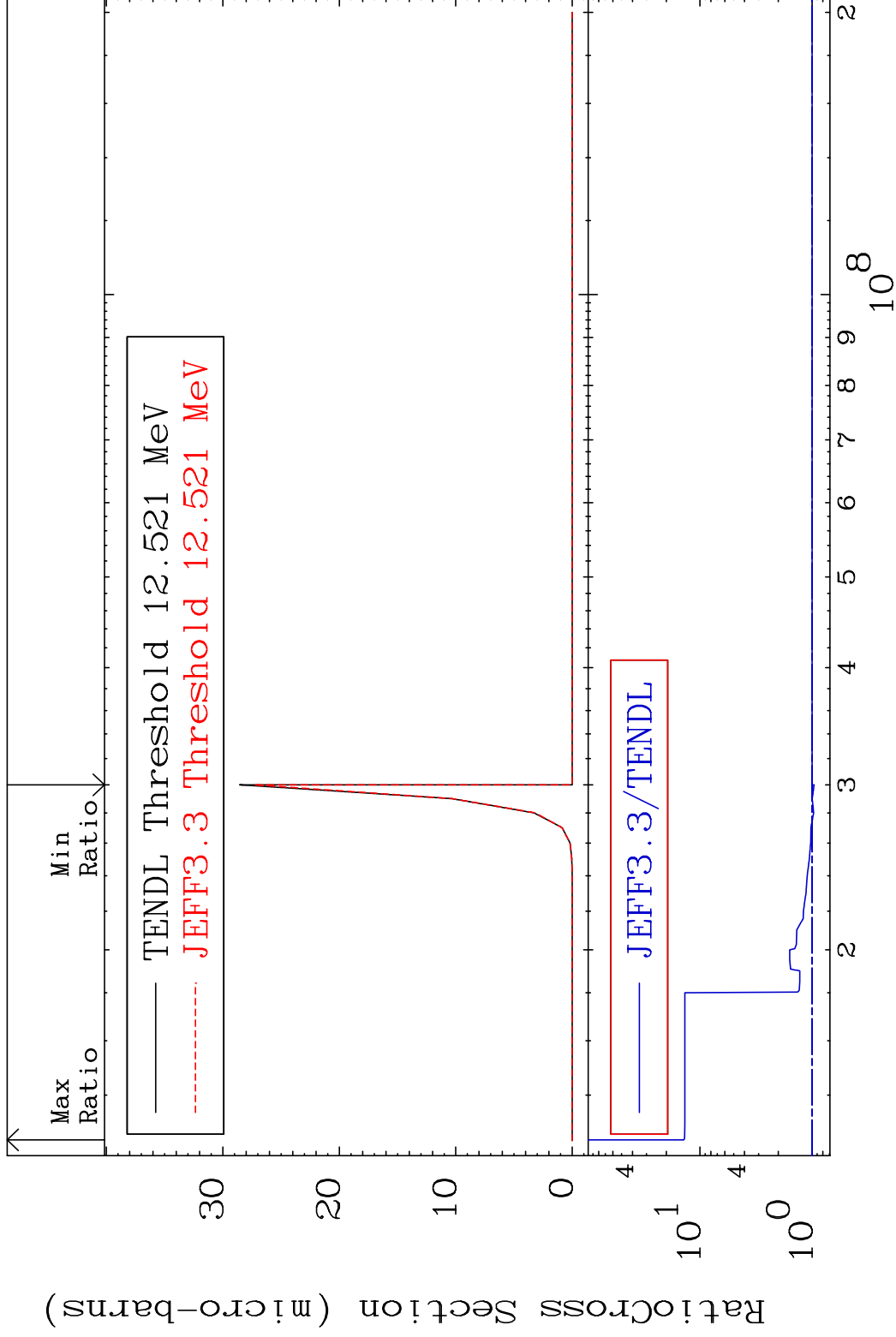


MAT 6928

(n,n') He-3

69-Tm-170

Cross Section -4.220 To 1298. %

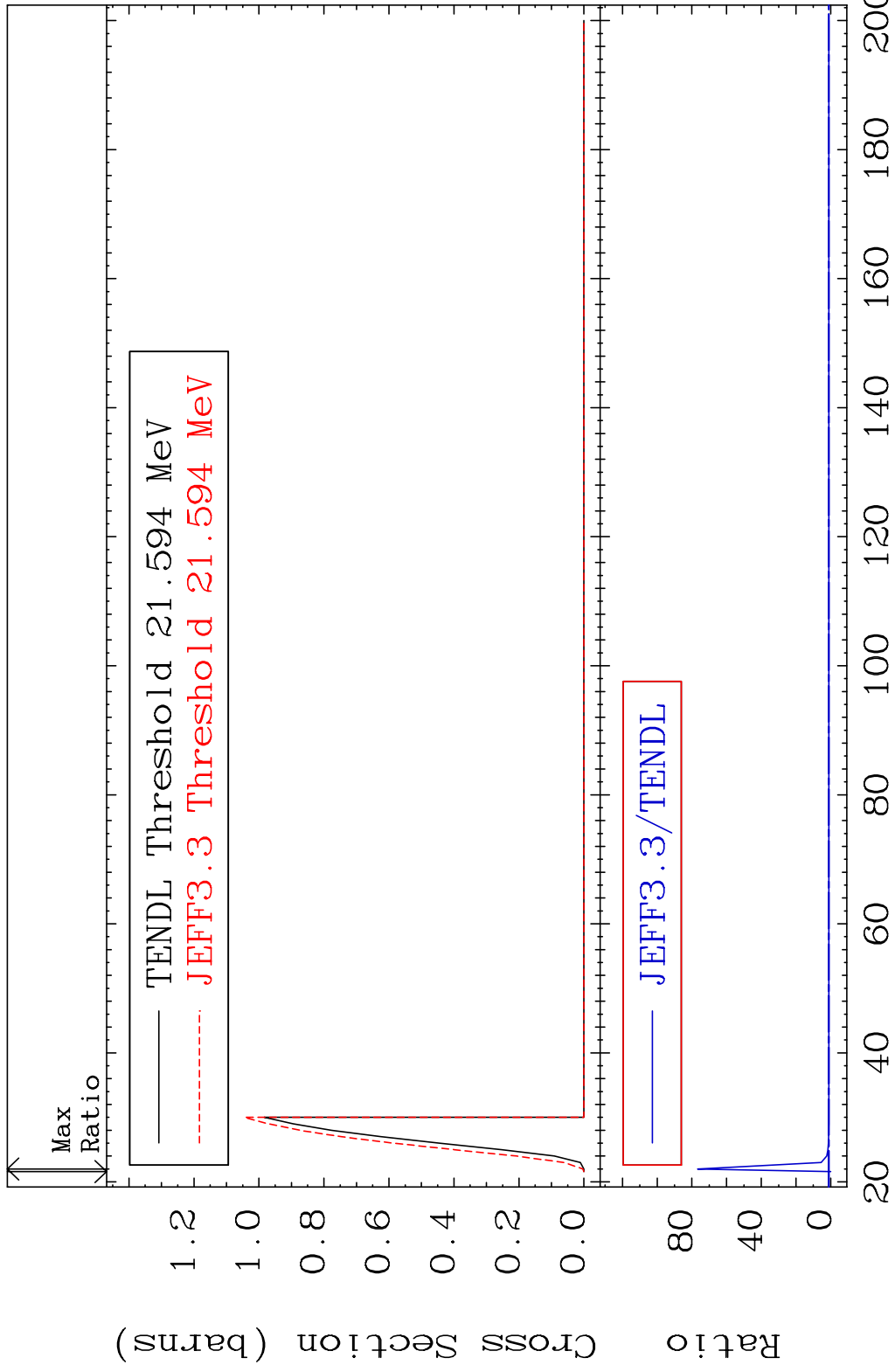


MAT 6928

(n, 4n)

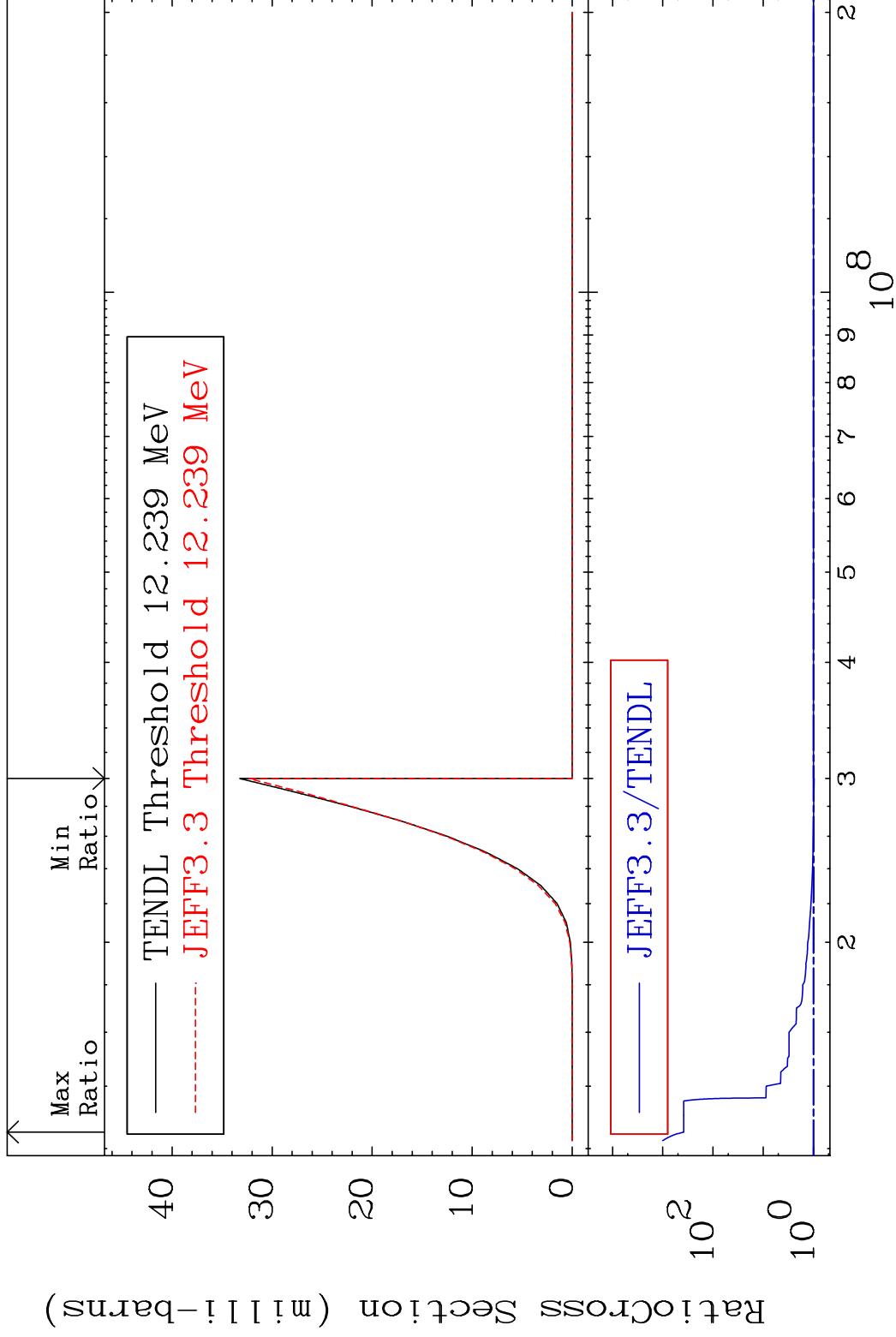
69-Tm-170

Cross Section -100.0 To 7571. %



MAT 6928

(n,2n) p 69-Tm-170  
Cross Section -2.783 To 9999. %

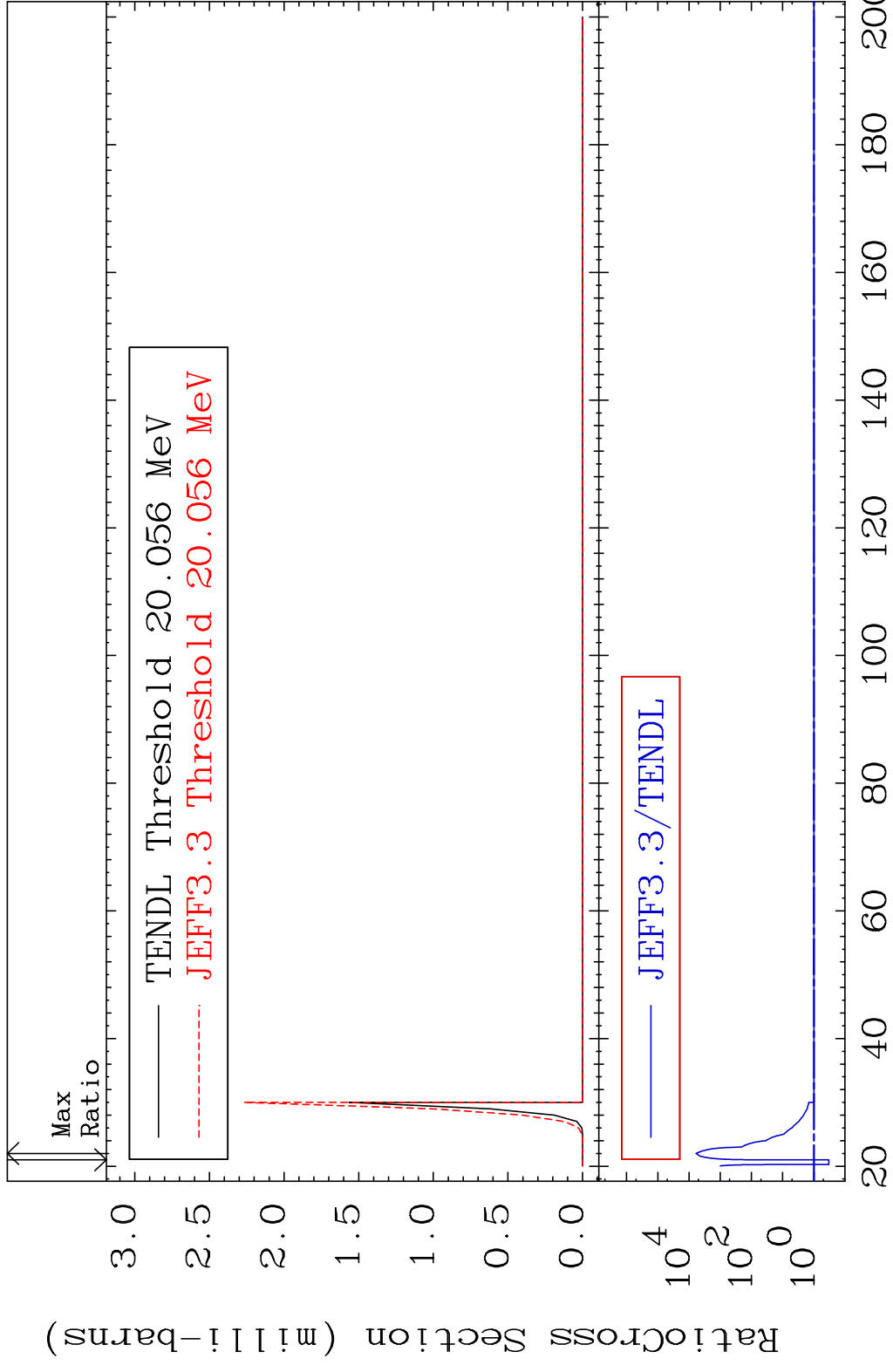


16

Incident Energy (eV)

69-Tm-170

MAT 6928 (n,3n) p 69-Tm-170  
 Cross Section -66.76 To 9999. %

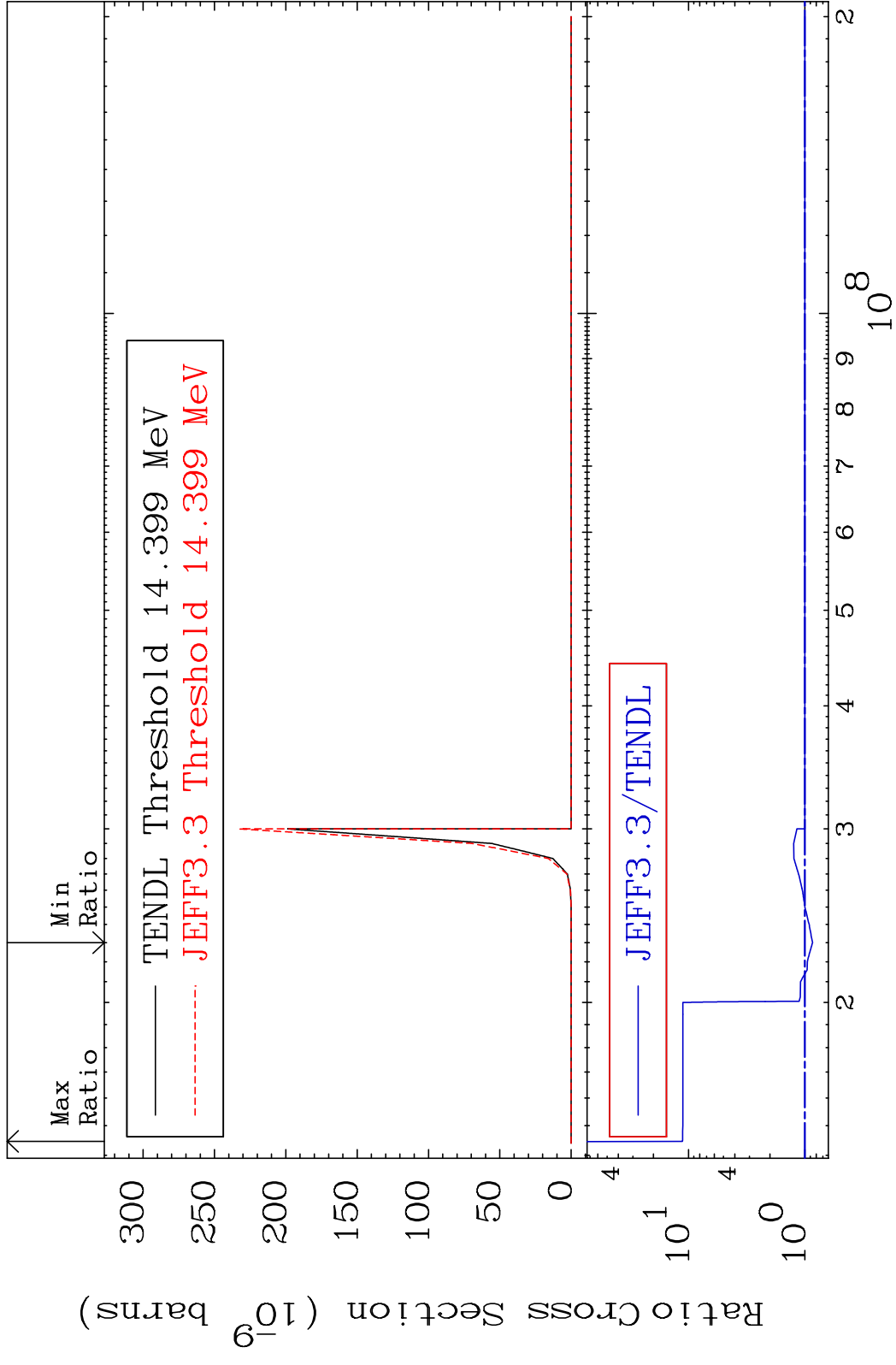


MAT 6928

(n,2n) p

69-Tm-170

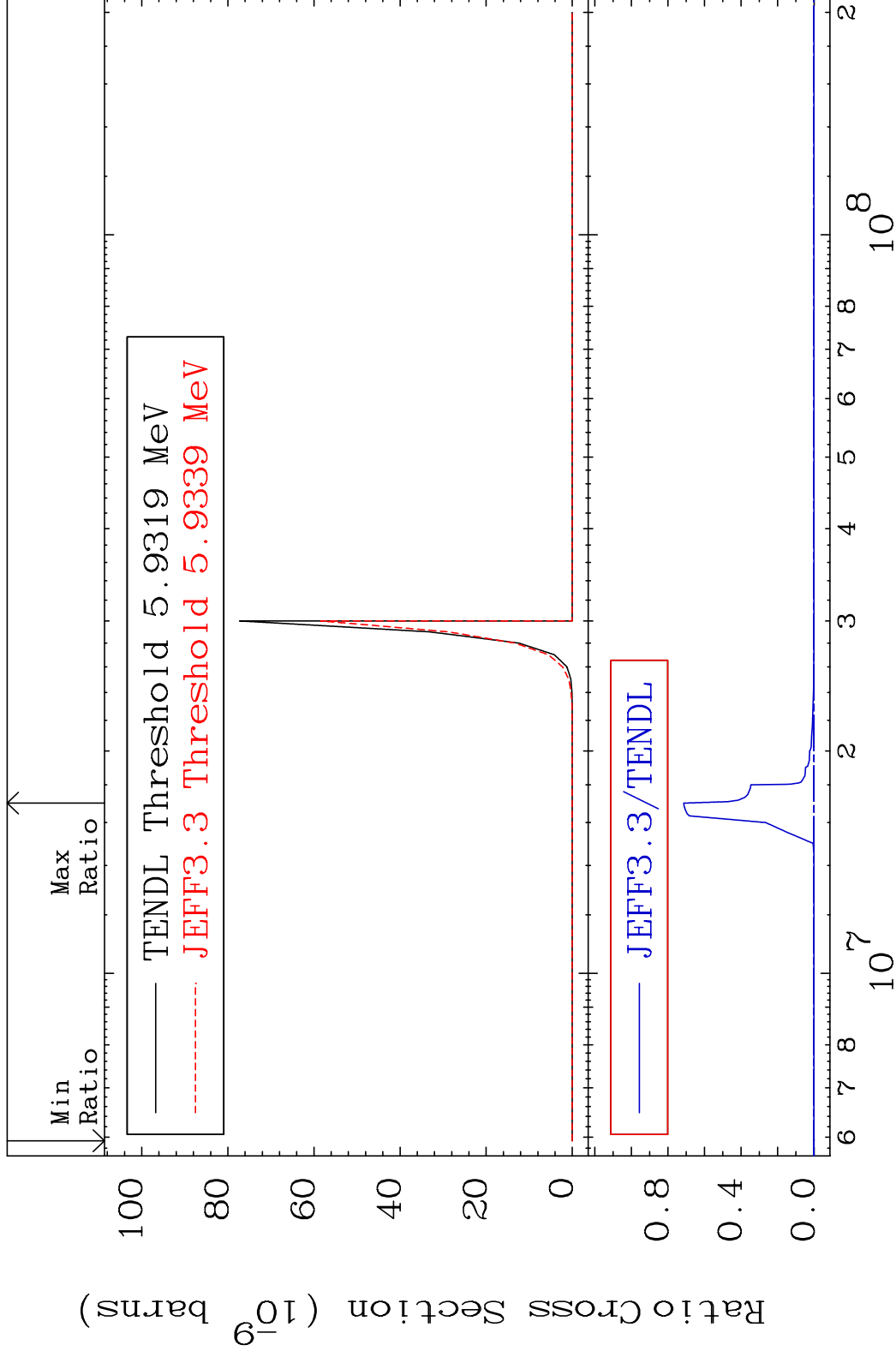
Cross Section -14.03 To 1028. %



MAT 6928

(n, n') p  $\alpha$  69-Tm-170

Cross Section -100.0 To 9999. %

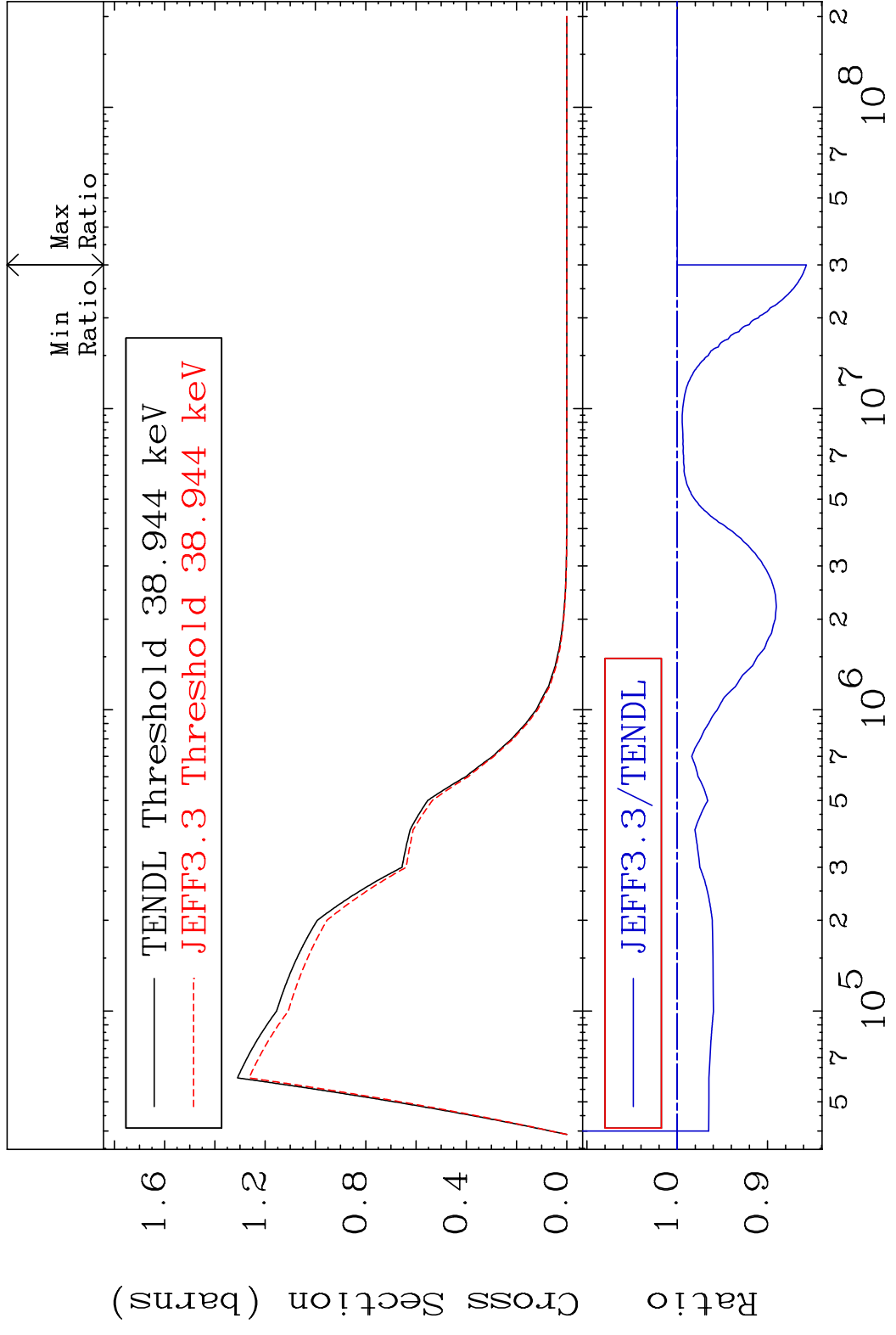


19

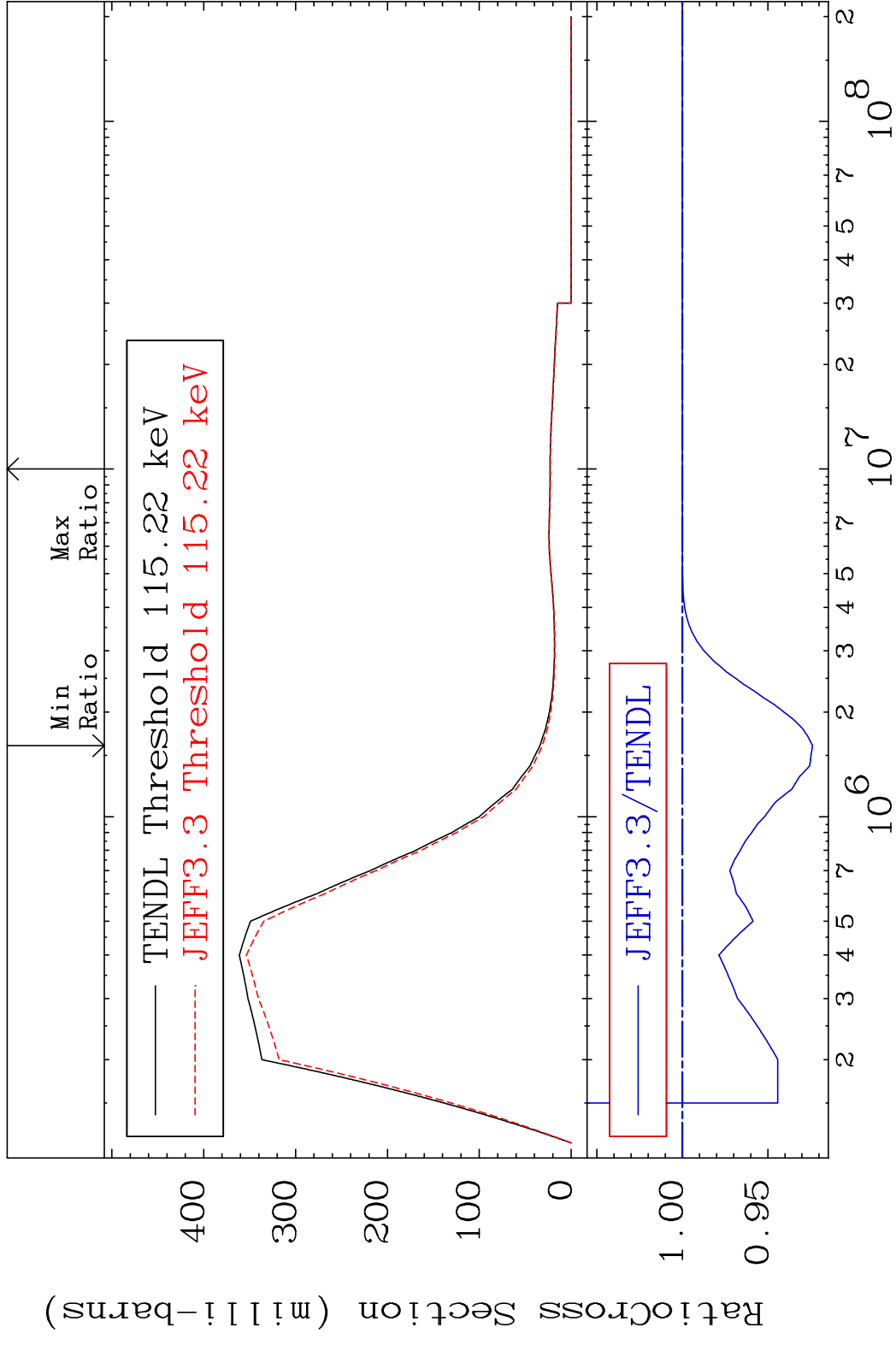
Incident Energy (eV)

69-Tm-170

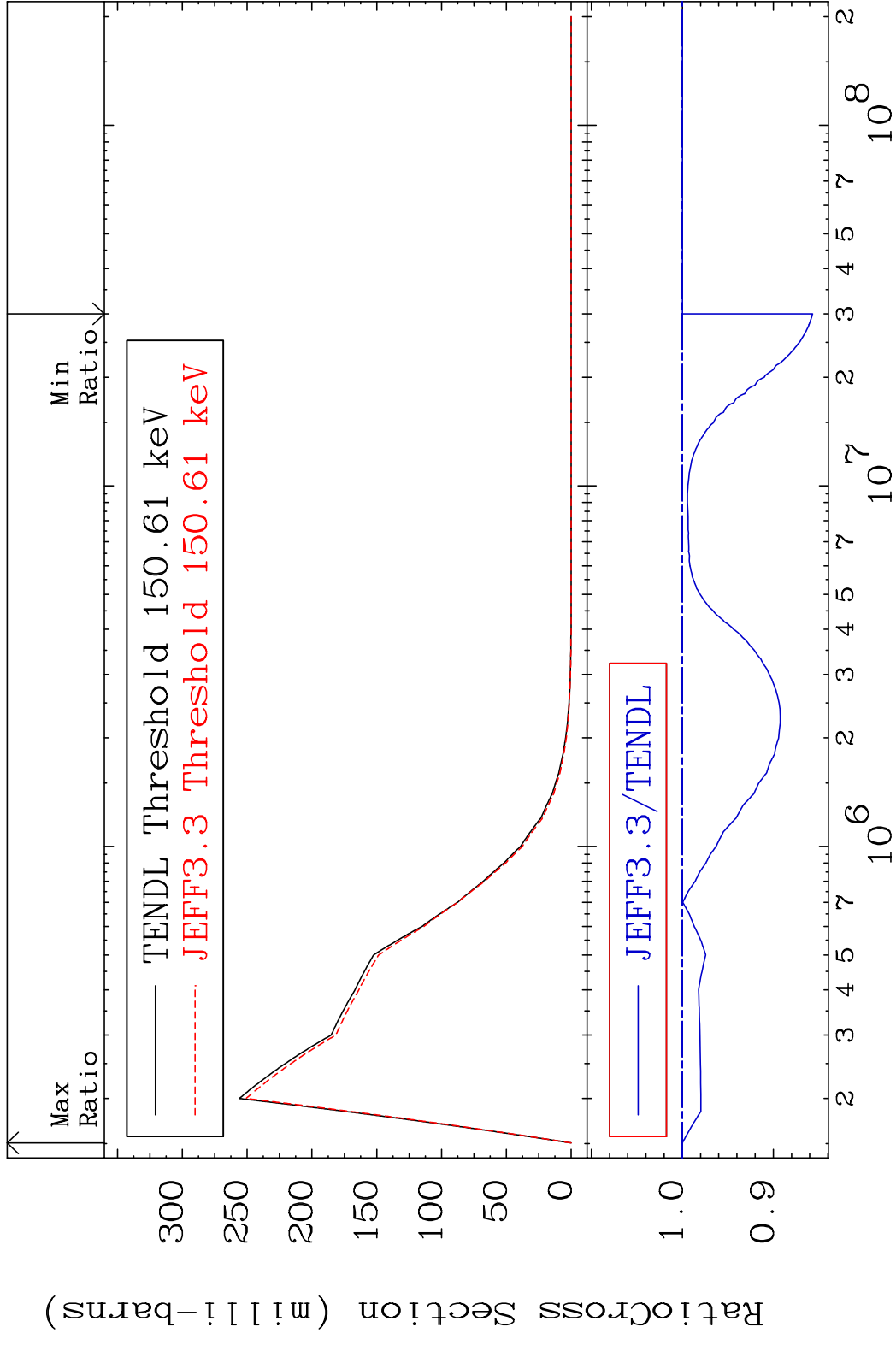
MAT 6928 MT= 51 (n,n') Level 69-Tm-170  
 Cross Section -14.31 To 0.000 %



MAT 6928 MT= 52 (n, n') Level 69-Tm-170  
 Cross Section -7.618 To 0.000 %

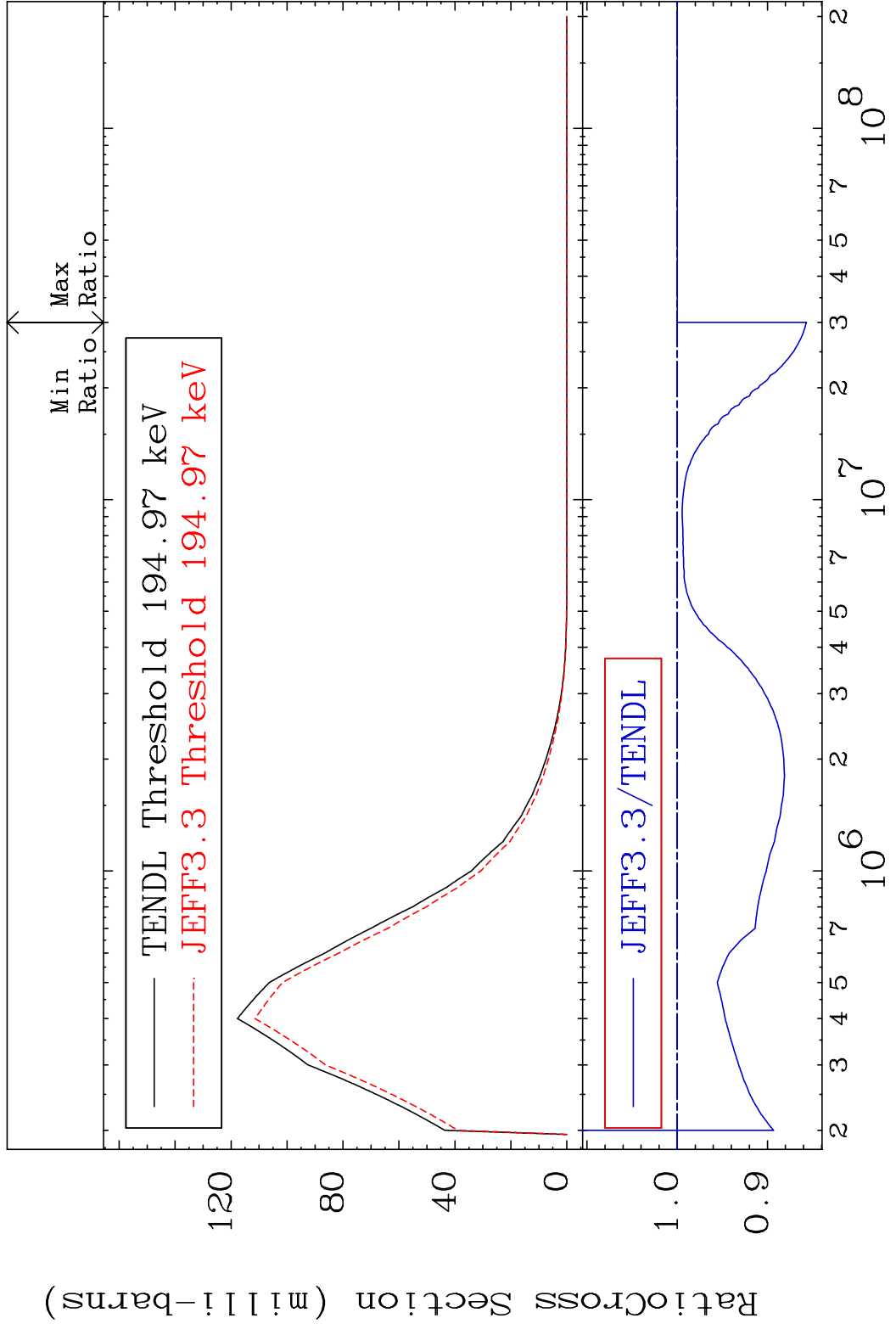


MAT 6928 MT= 53 (n, n') Level 69-Tm-170  
 Cross Section -14.31 To 0.000 %

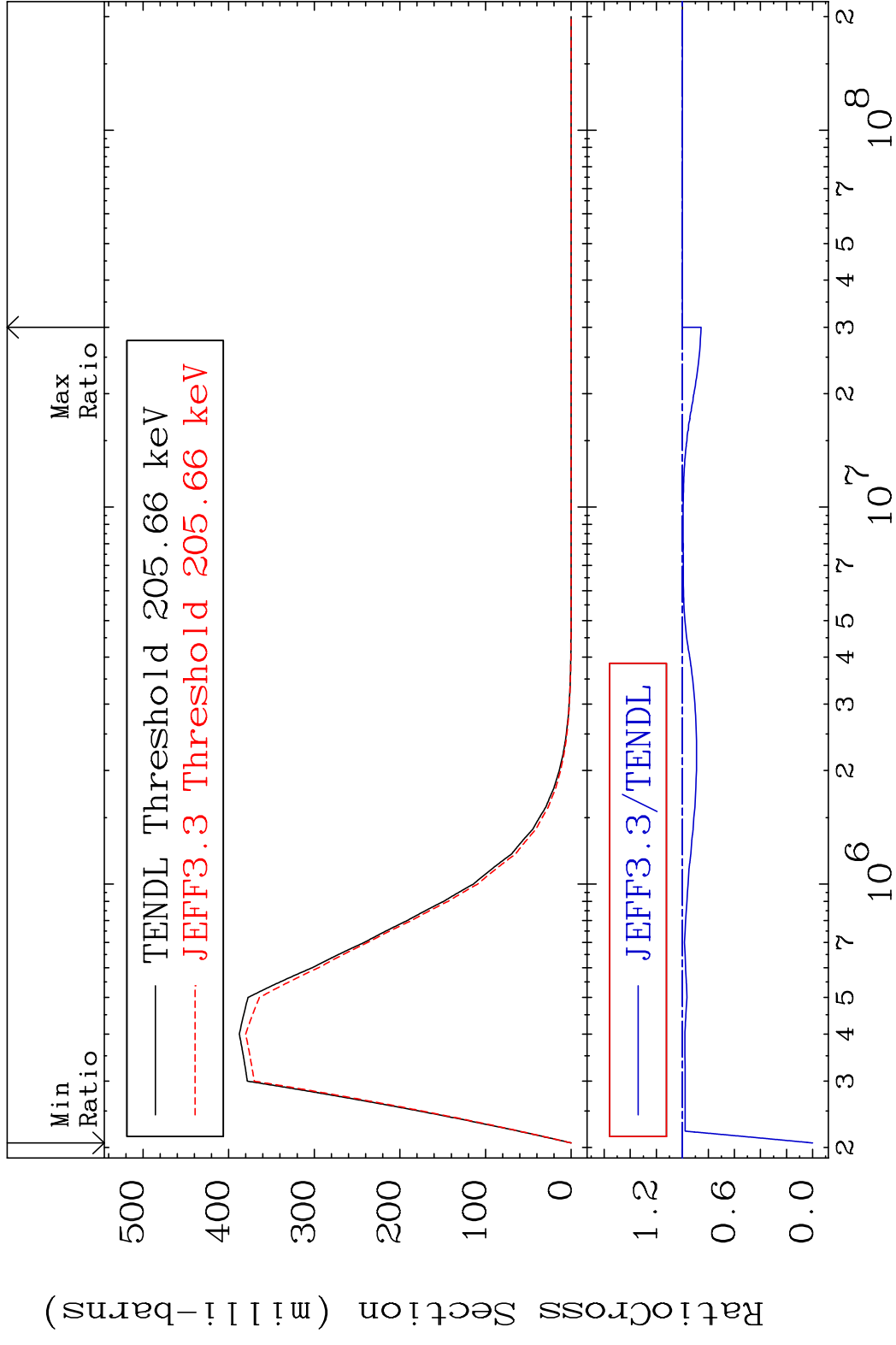




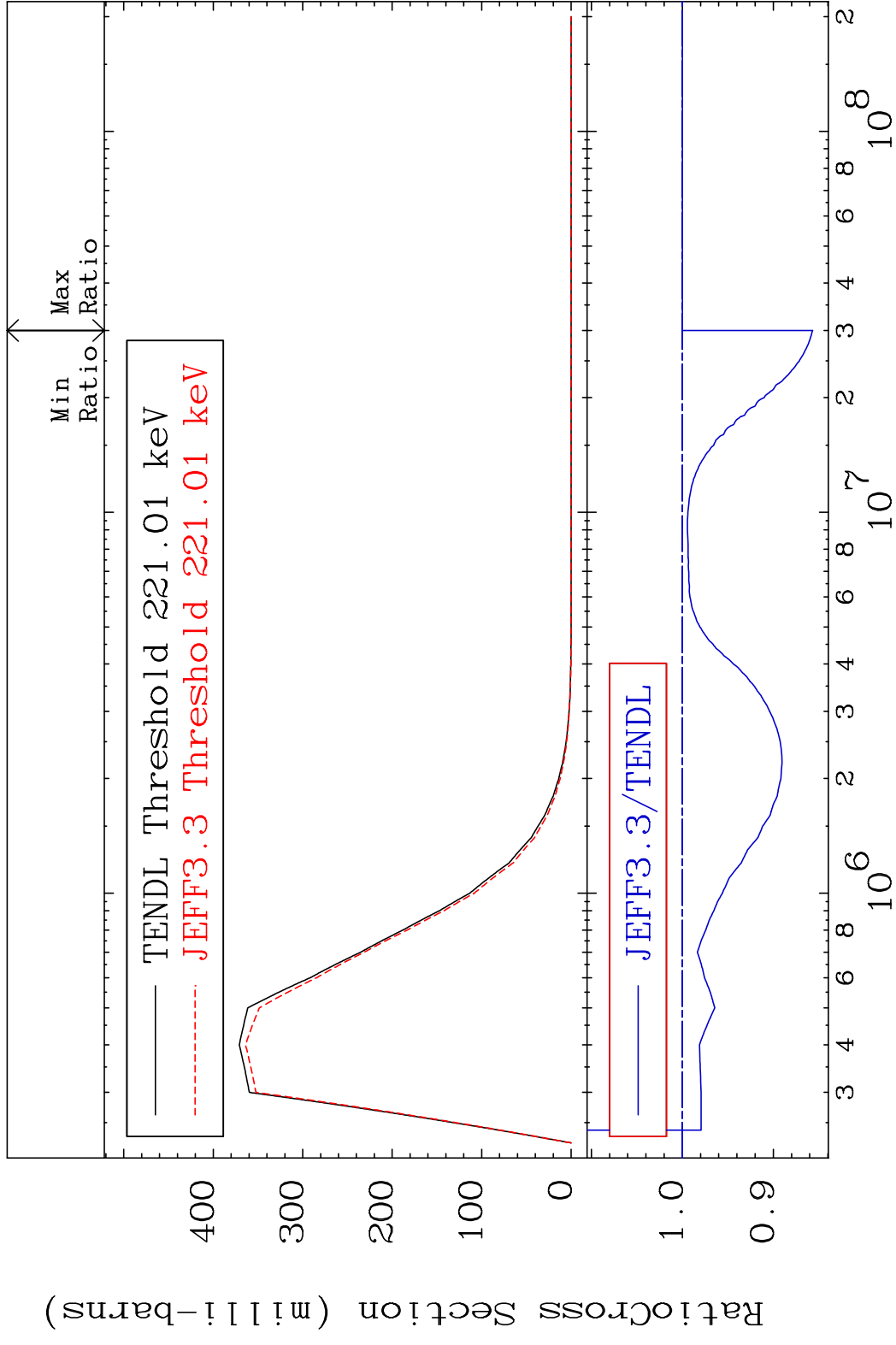
MAT 6928 MT= 55 (n,n') Level 69-Tm-170  
 Cross Section -14.32 To 0.000 %



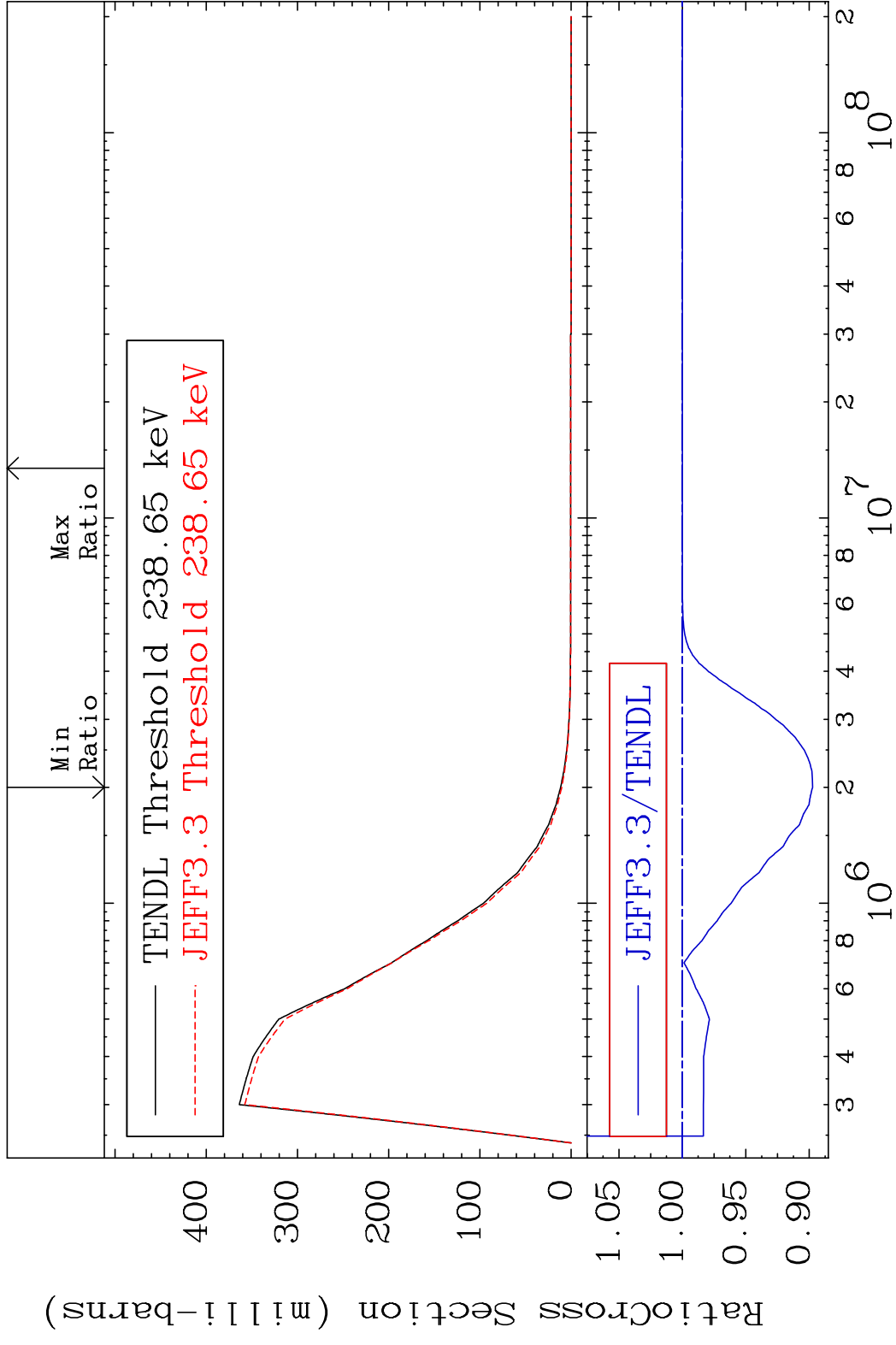
MAT 6928 MT= 56 (n,n') Level 69-Tm-170  
 Cross Section -100.0 To 0.000 %



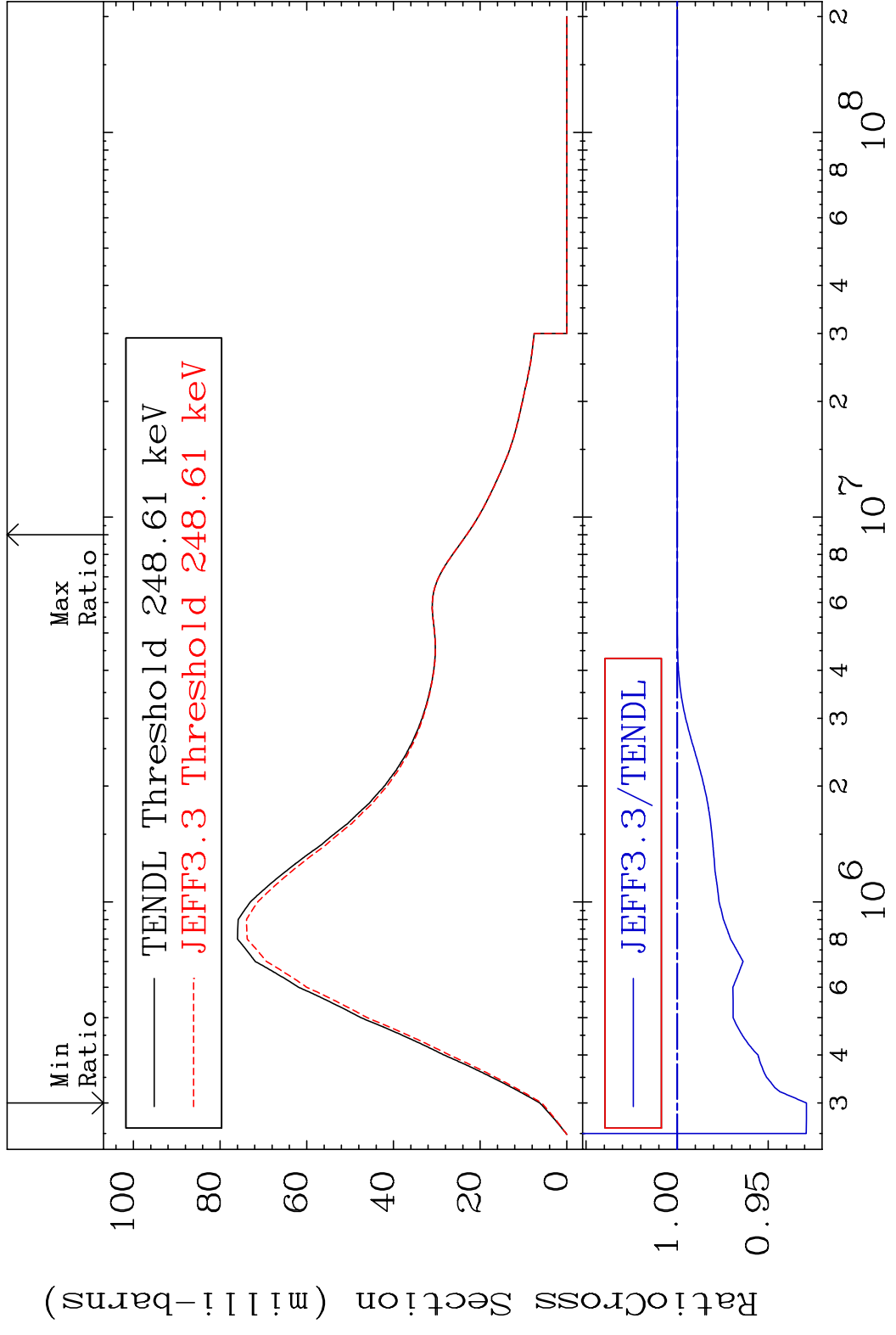
MAT 6928 MT= 57 (n, n') Level 69-Tm-170  
 Cross Section -14.31 To 0.000 %



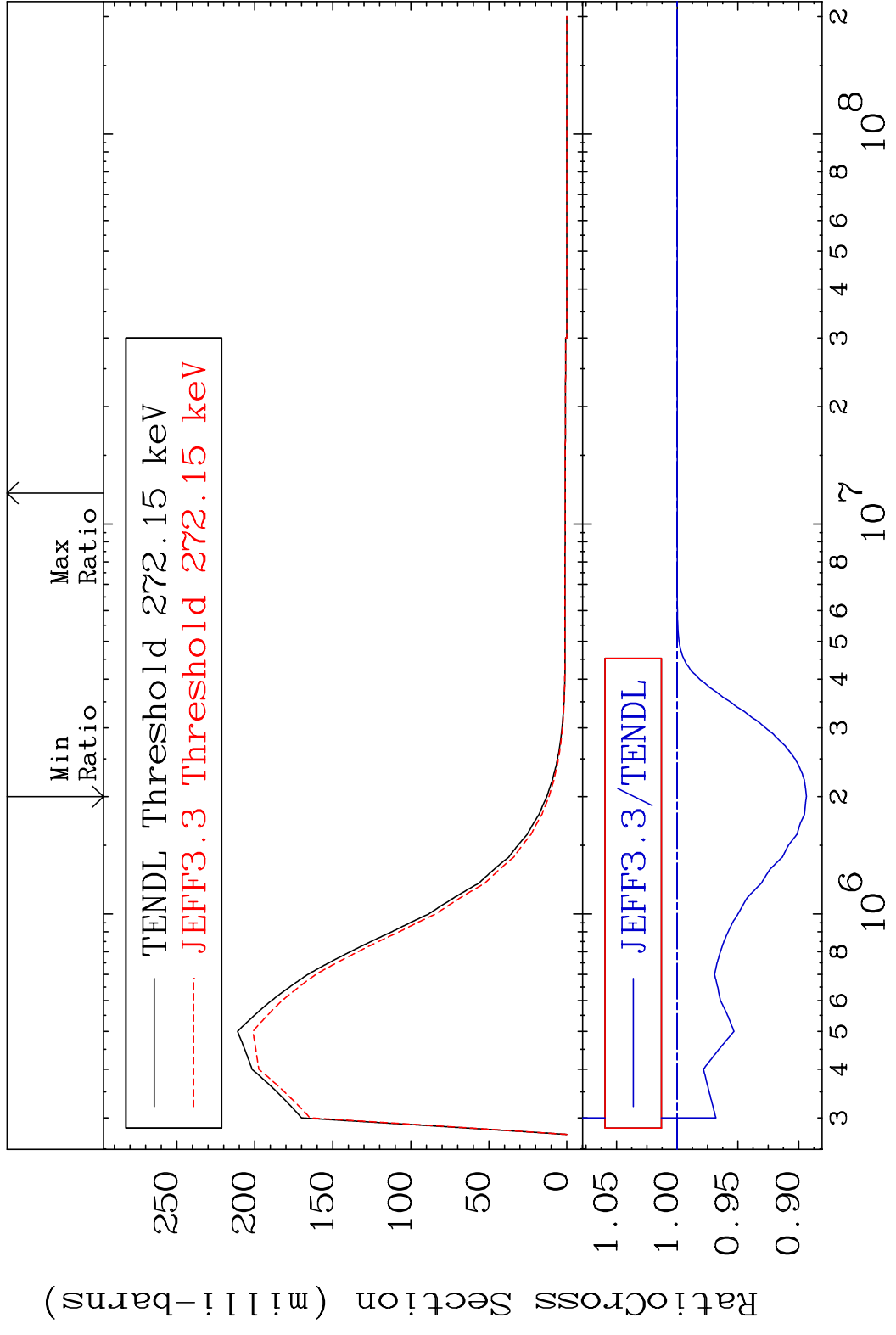
MAT 6928 MT= 58 (n, n') Level 69-Tm-170  
 Cross Section -10.26 To 0.000 %



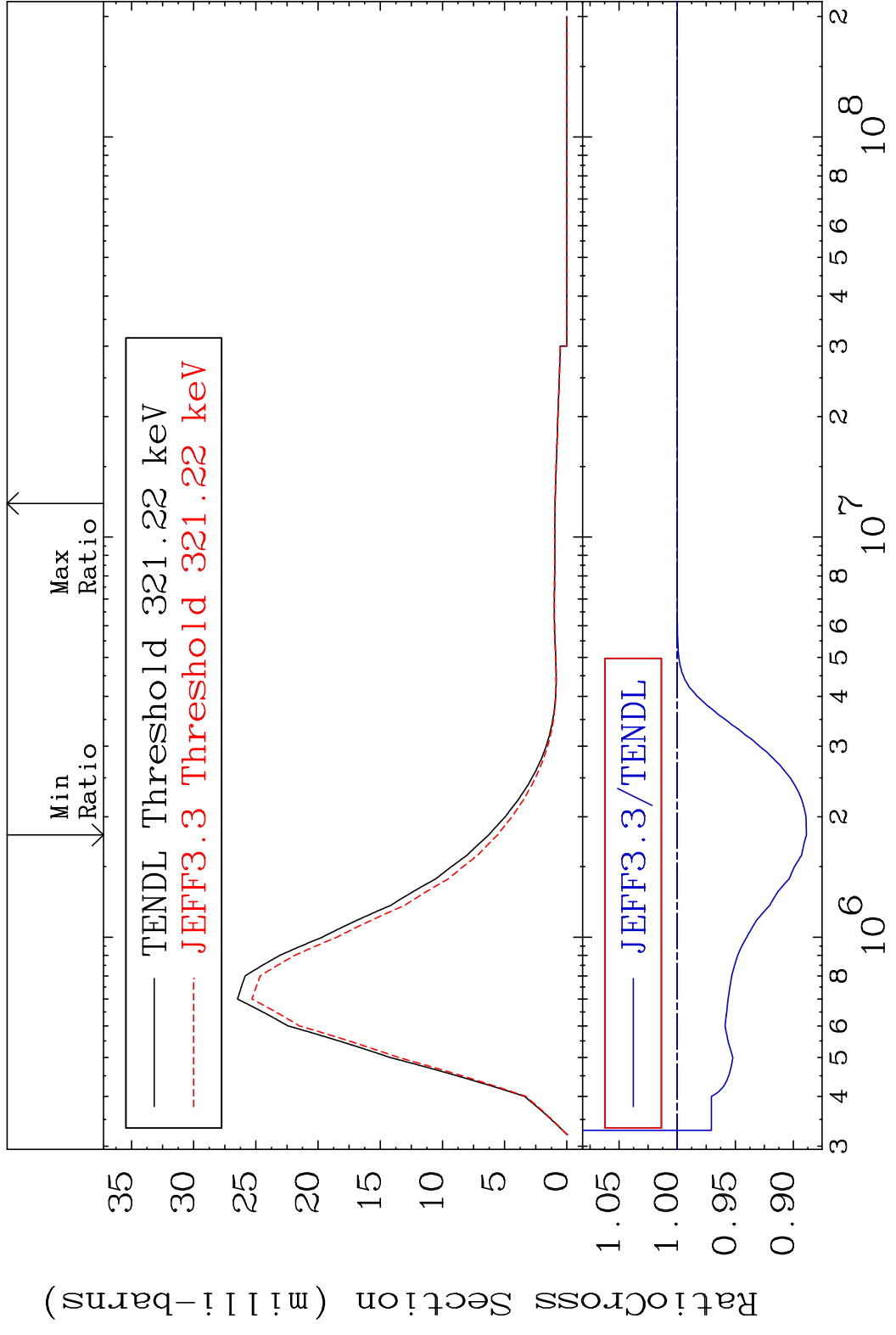
MAT 6928 MT= 59 (n, n') Level 69-Tm-170  
 Cross Section -7.091 To 0.000 %



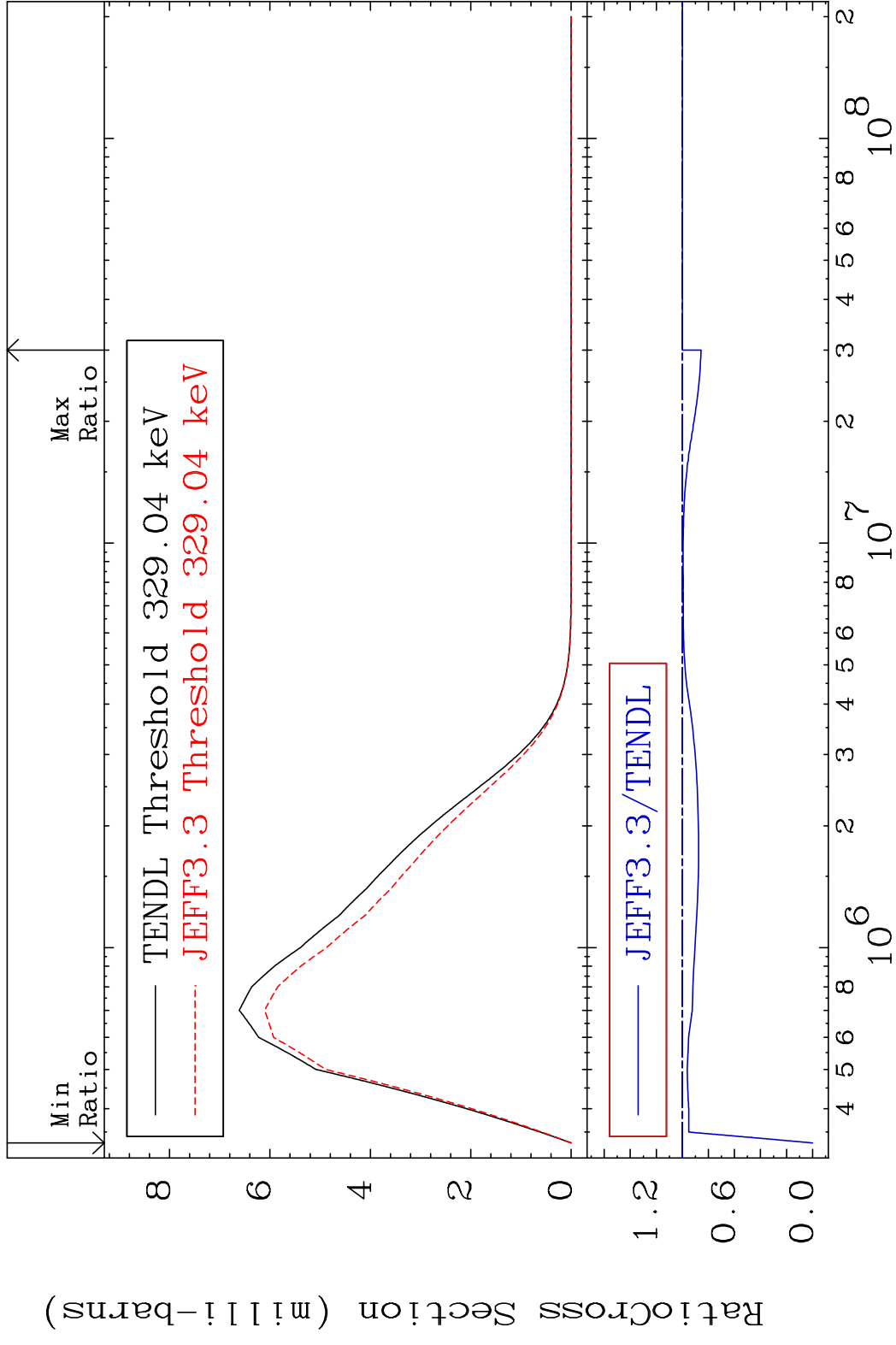
MAT 6928 MT= 60 (n, n') Level 69-Tm-170  
 Cross Section -10.64 To 0.000 %



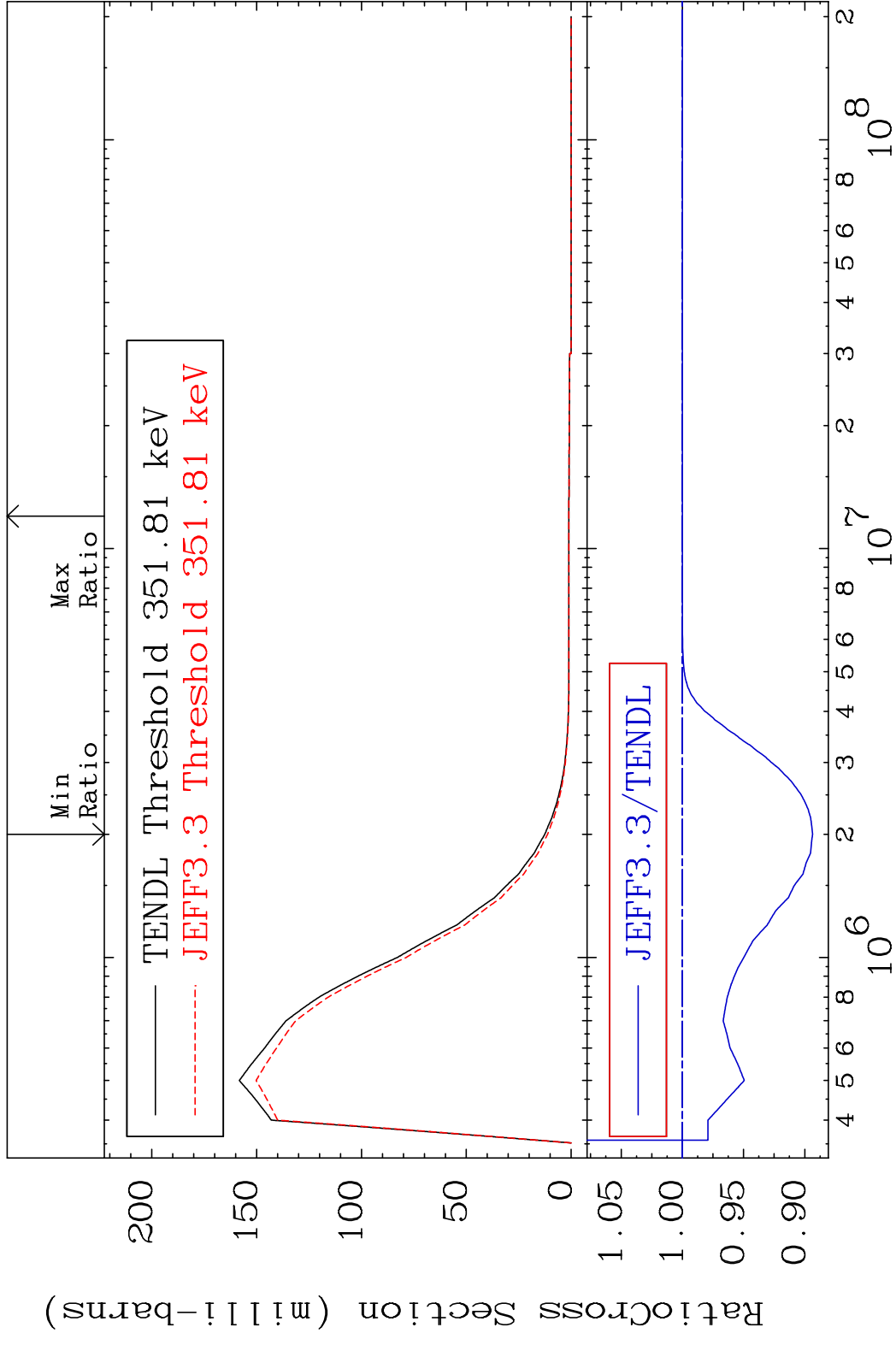
MAT 6928 MT= 61 (n, n') Level 69-Tm-170  
 Cross Section -11.12 To 0.000 %



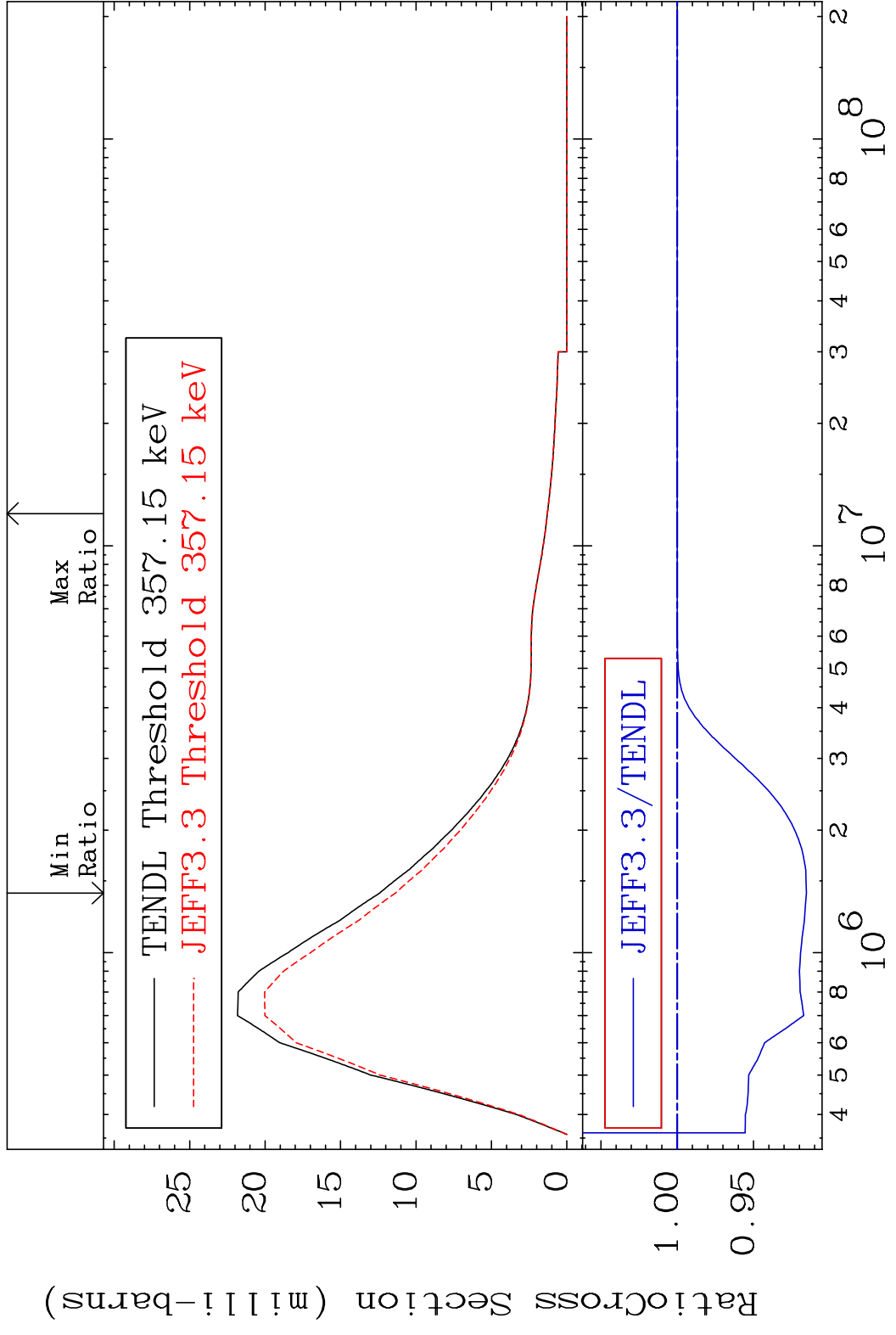
MAT 6928 MT= 62 (n, n') Level 69-Tm-170  
 Cross Section -100.0 To 0.000 %



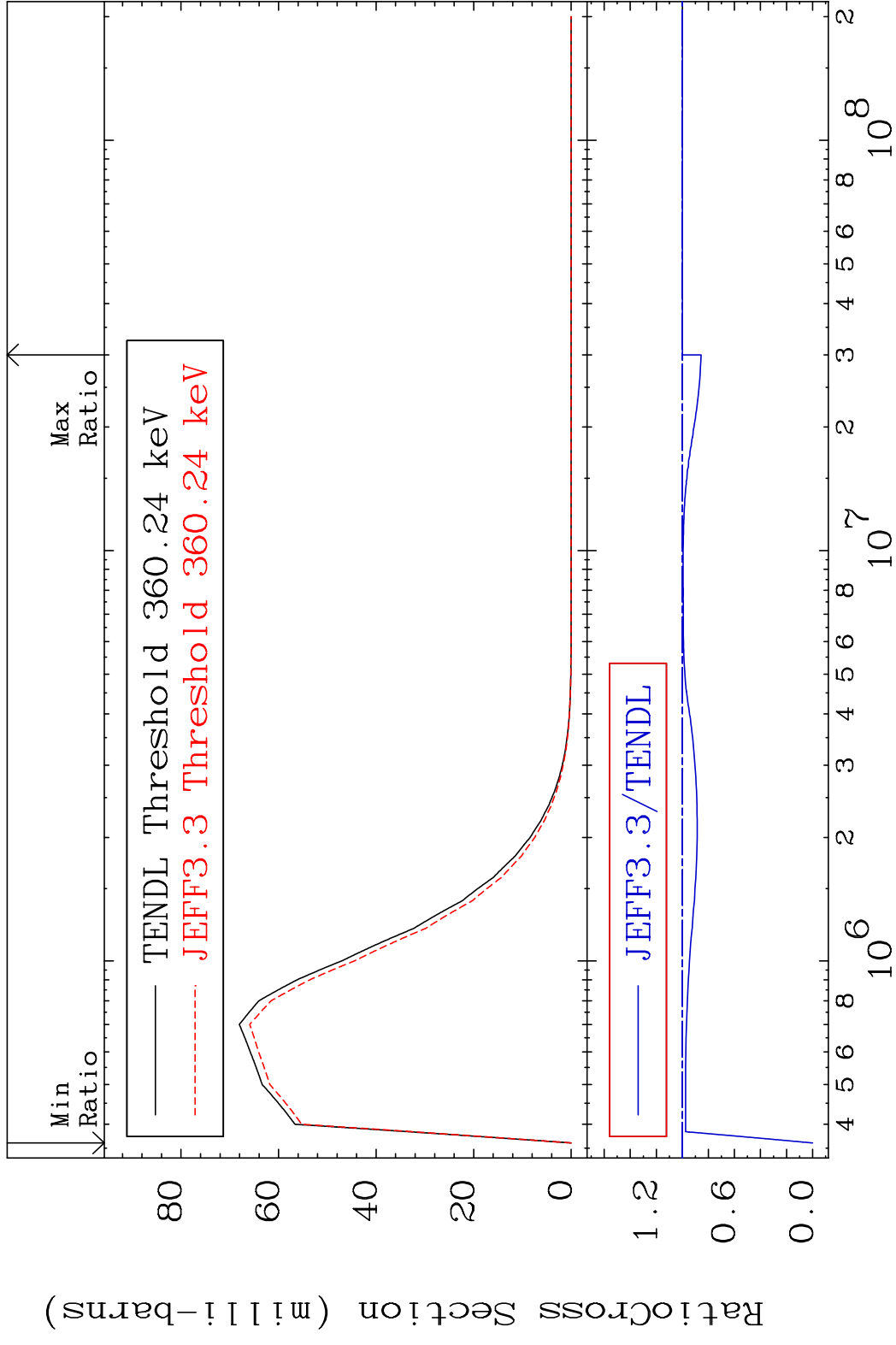
MAT 6928 MT= 63 (n, n') Level 69-Tm-170  
 Cross Section -10.64 To 0.000 %



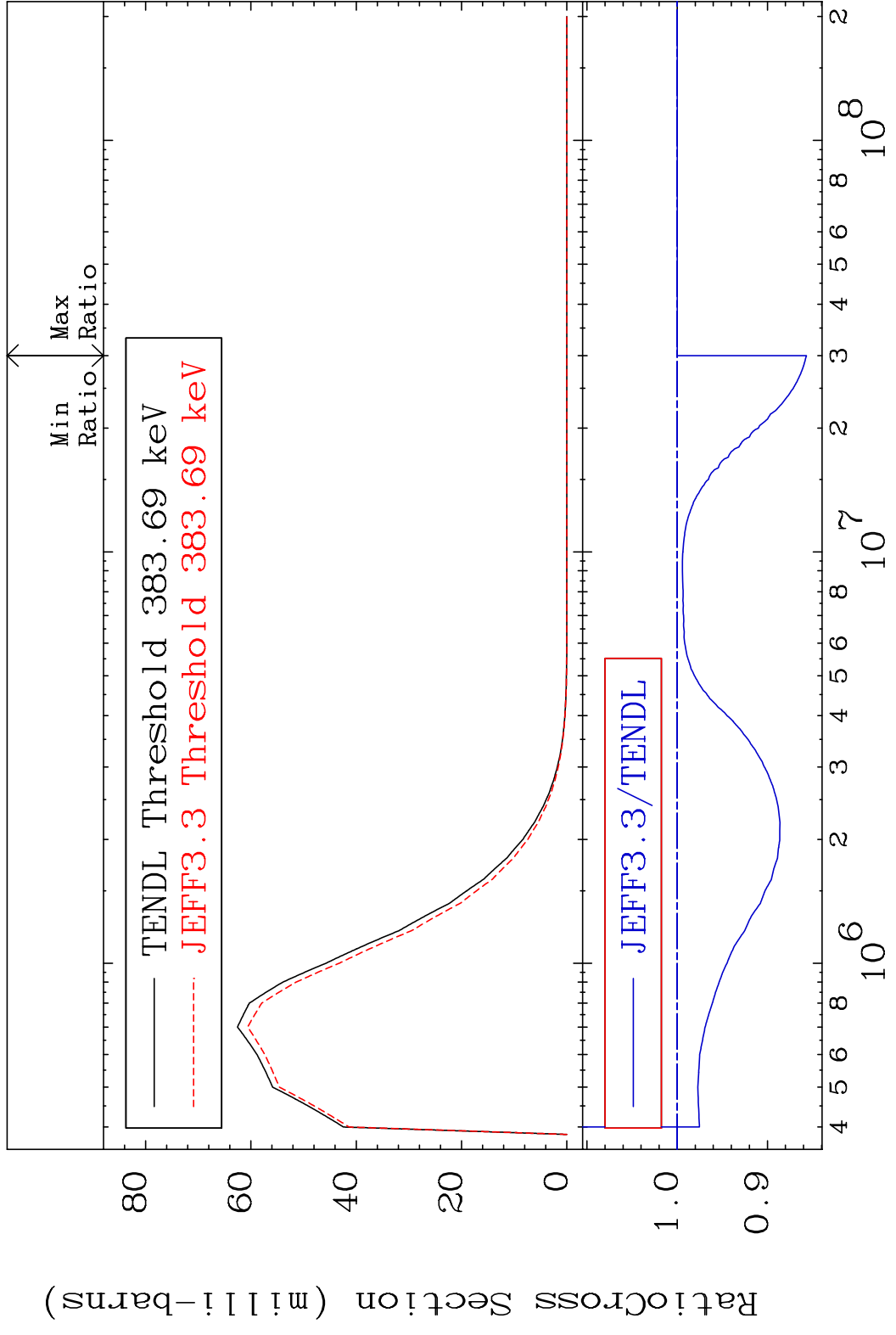
MAT 6928 MT= 64 (n, n') Level 69-Tm-170  
 Cross Section -8.463 To 0.000 %



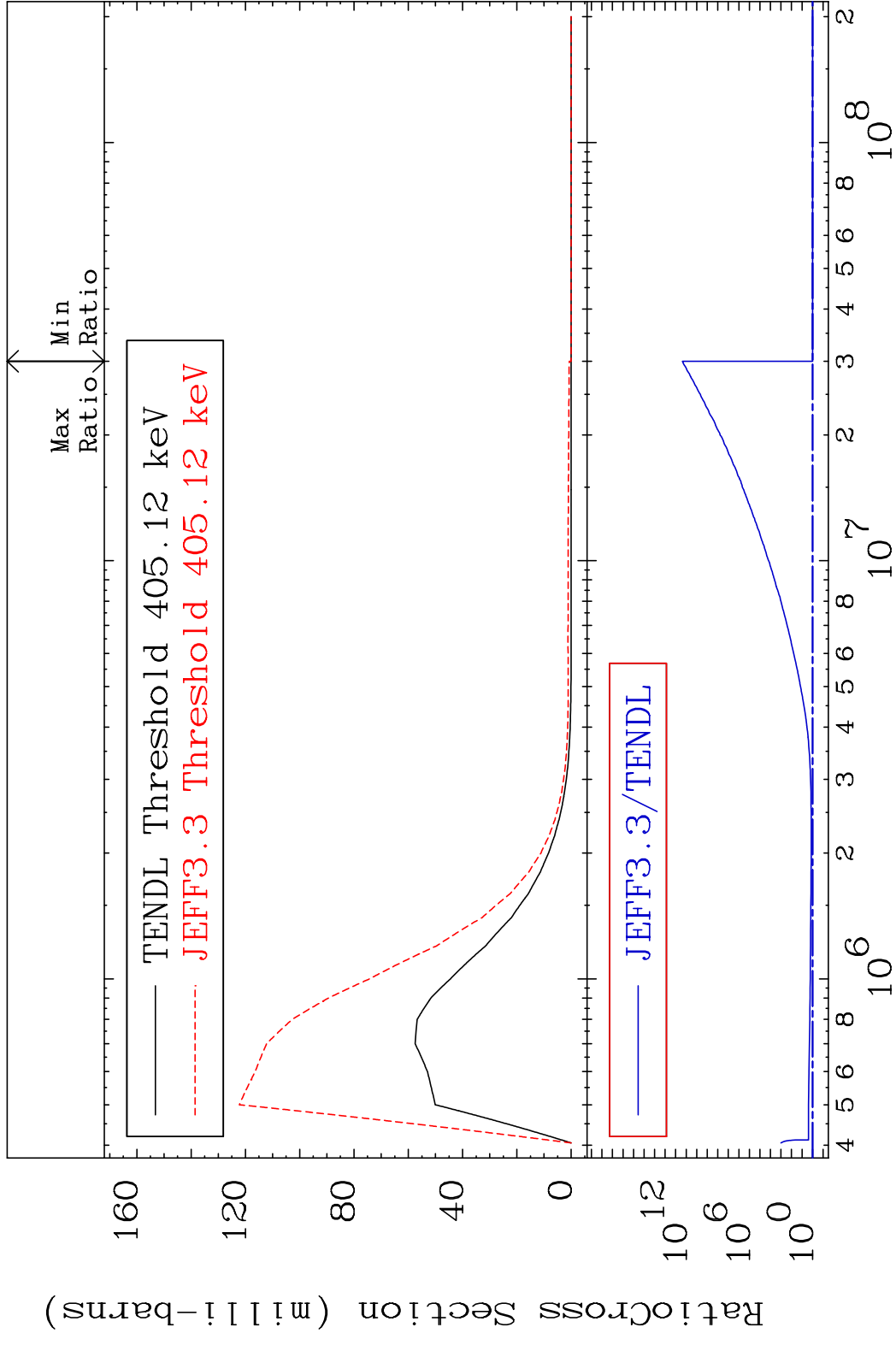
MAT 6928 MT= 65 (n,n') Level 69-Tm-170  
 Cross Section -100.0 To 0.000 %



MAT 6928 MT= 66 (n, n') Level 69-Tm-170  
 Cross Section -14.32 To 0.000 %

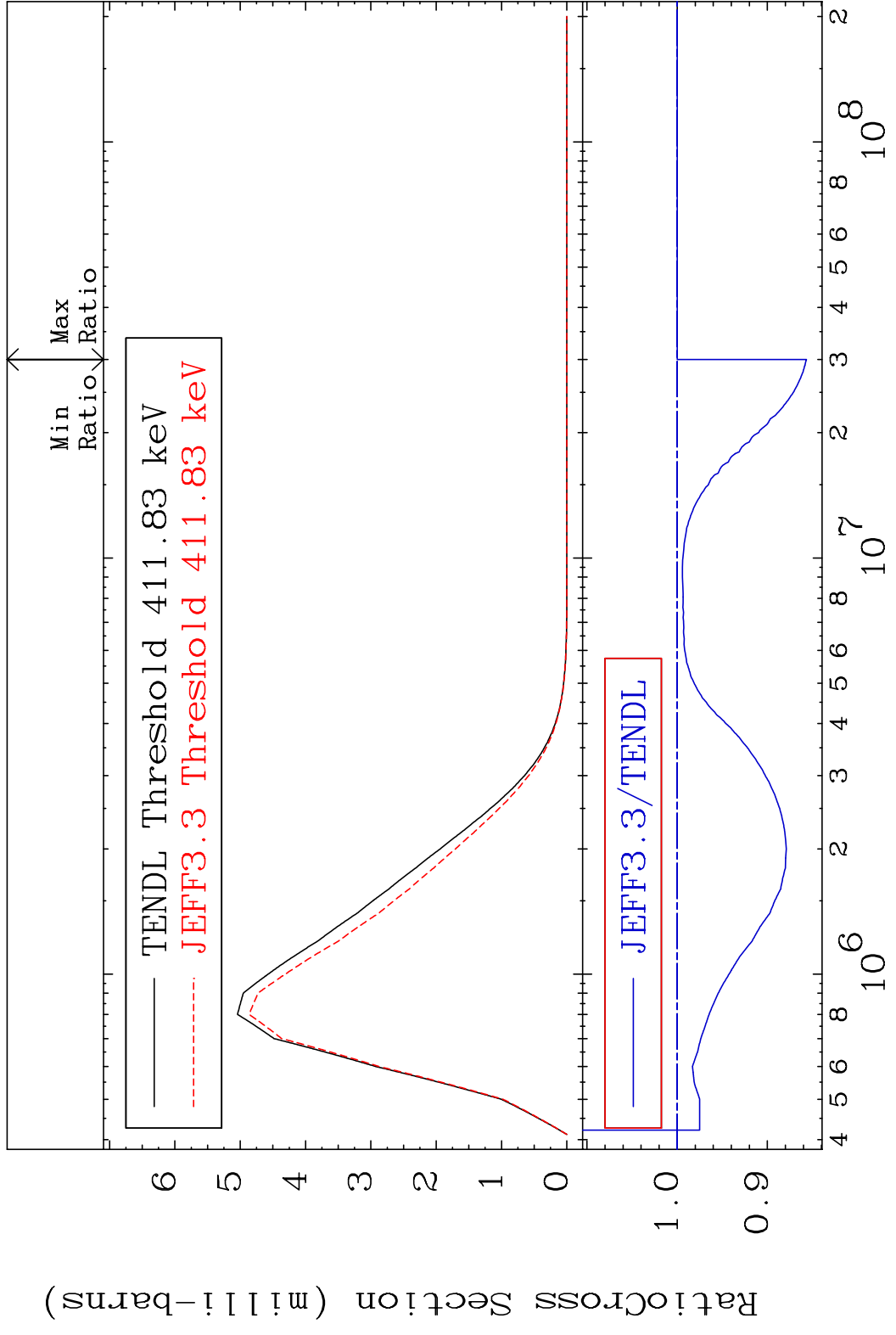


MAT 6928 MT= 67 (n, n') Level 69-Tm-170  
 Cross Section 0.000 To 9999. %

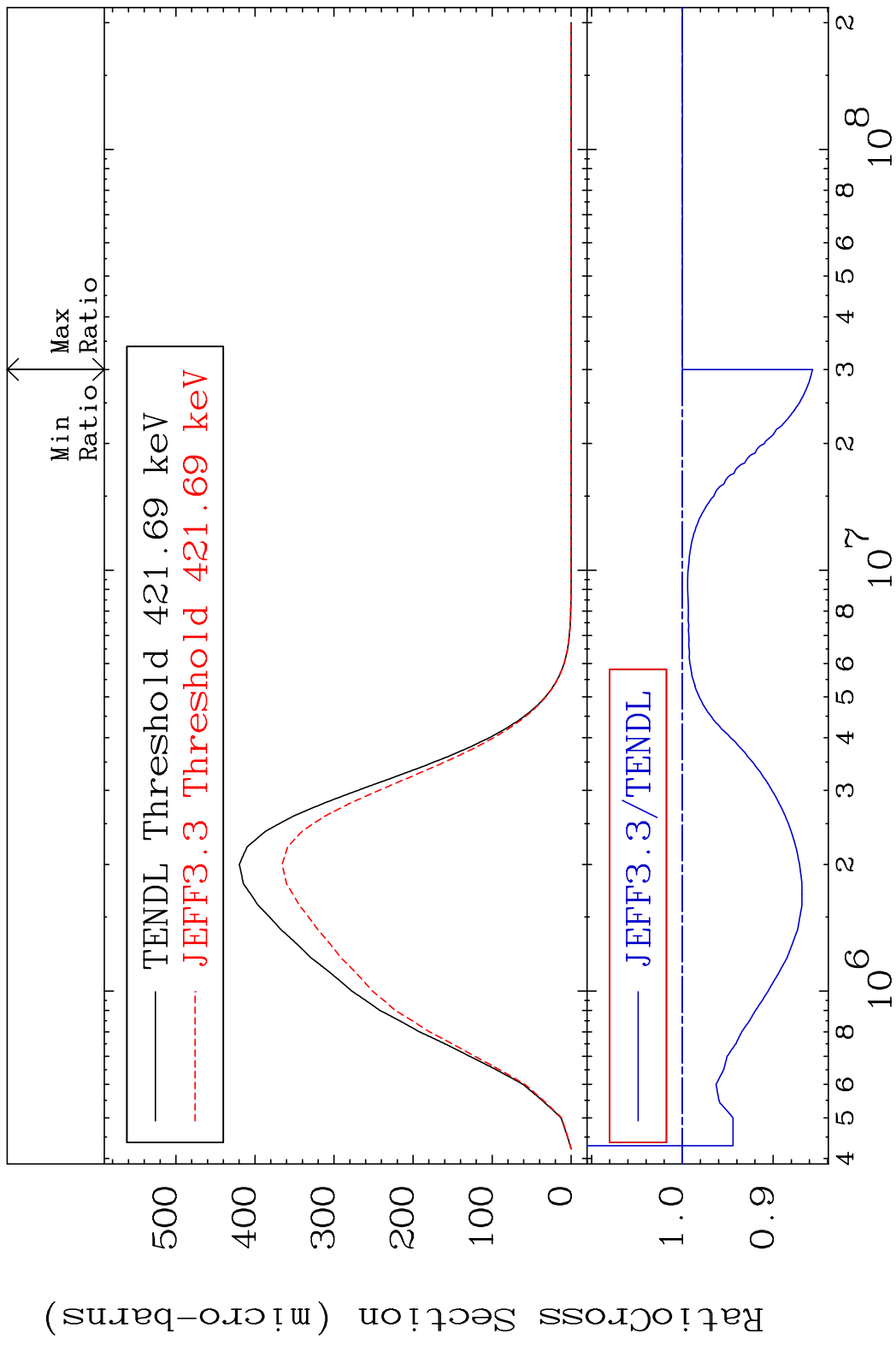


36 Incident Energy (eV) 69-Tm-170

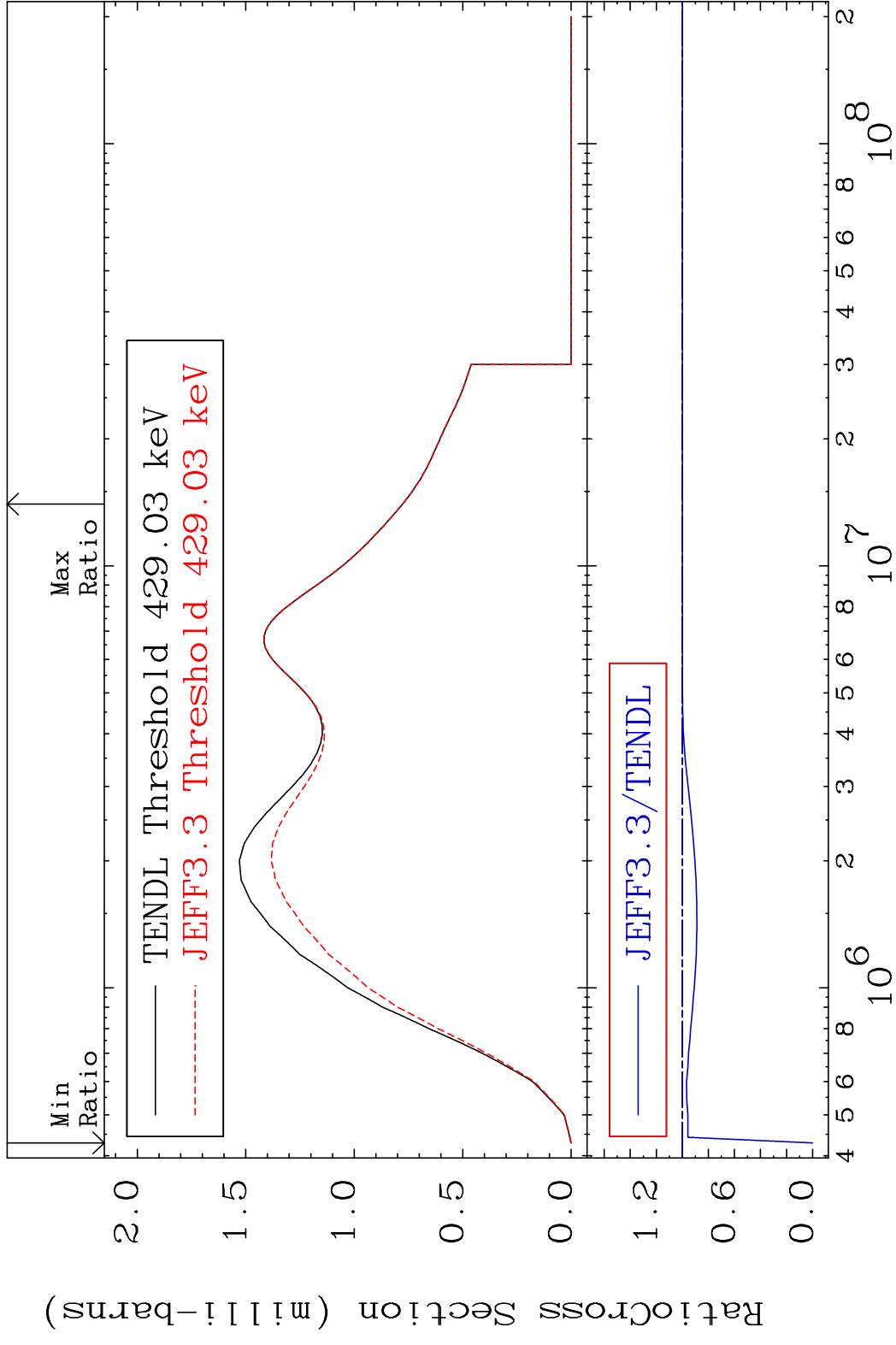
MAT 6928 MT= 68 (n, n') Level 69-Tm-170  
 Cross Section -14.33 To 0.000 %



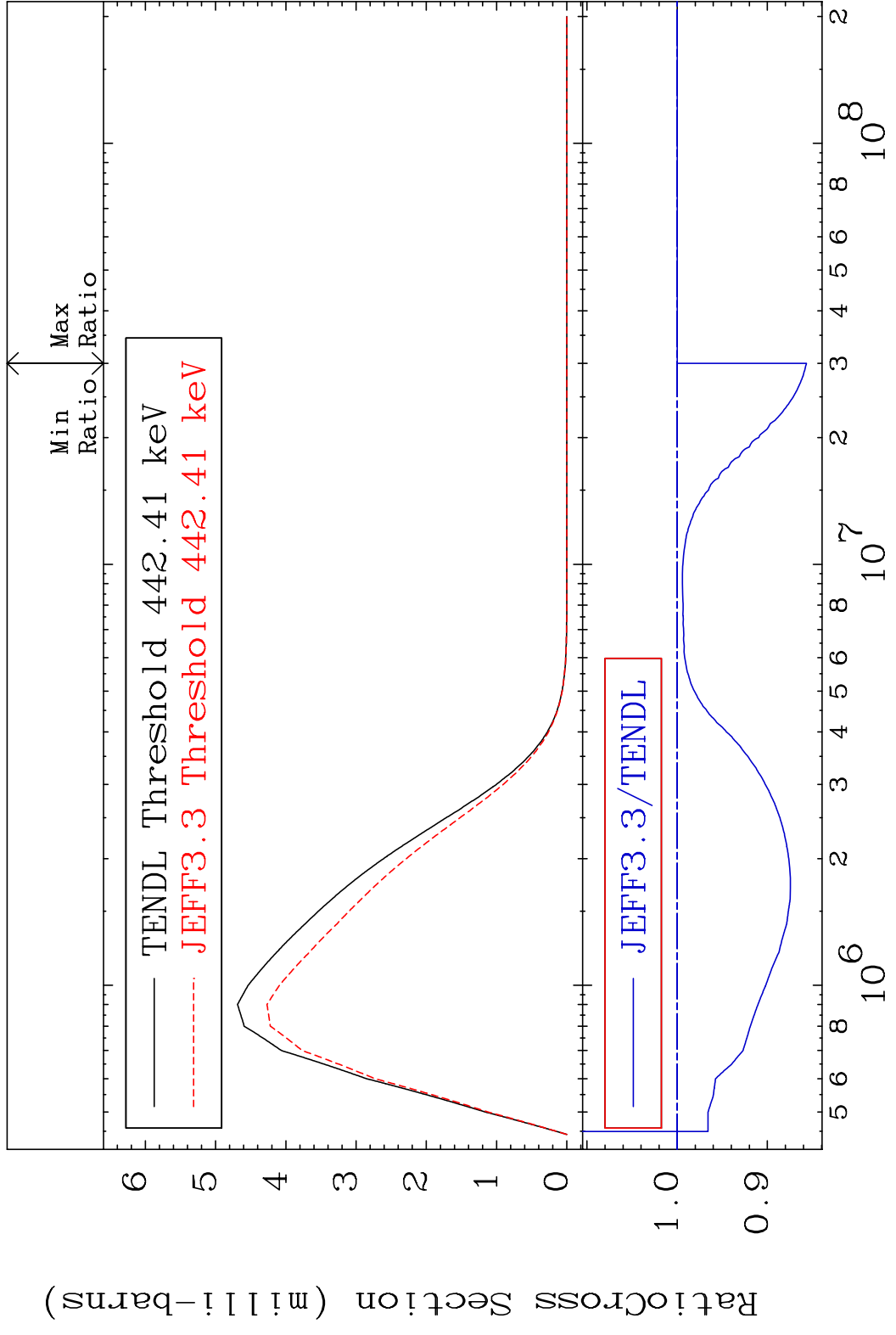
MAT 6928 MT= 69 (n, n') Level 69-Tm-170  
 Cross Section -14.34 To 0.000 %



MAT 6928 MT= 70 (n, n') Level 69-Tm-170  
 Cross Section -100.0 To 0.000 %

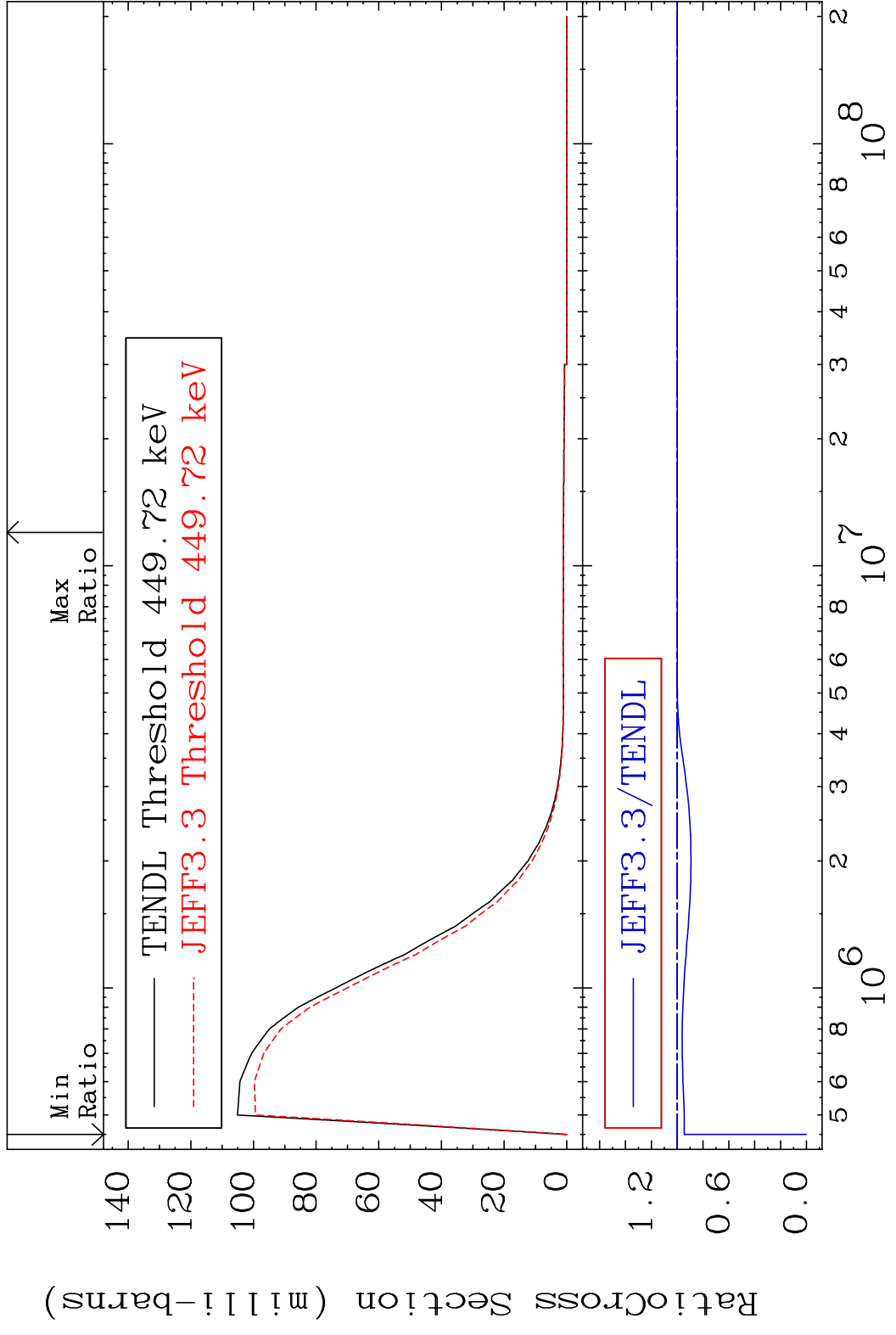


MAT 6928 MT= 71 (n, n') Level 69-Tm-170  
 Cross Section -14.32 To 0.000 %

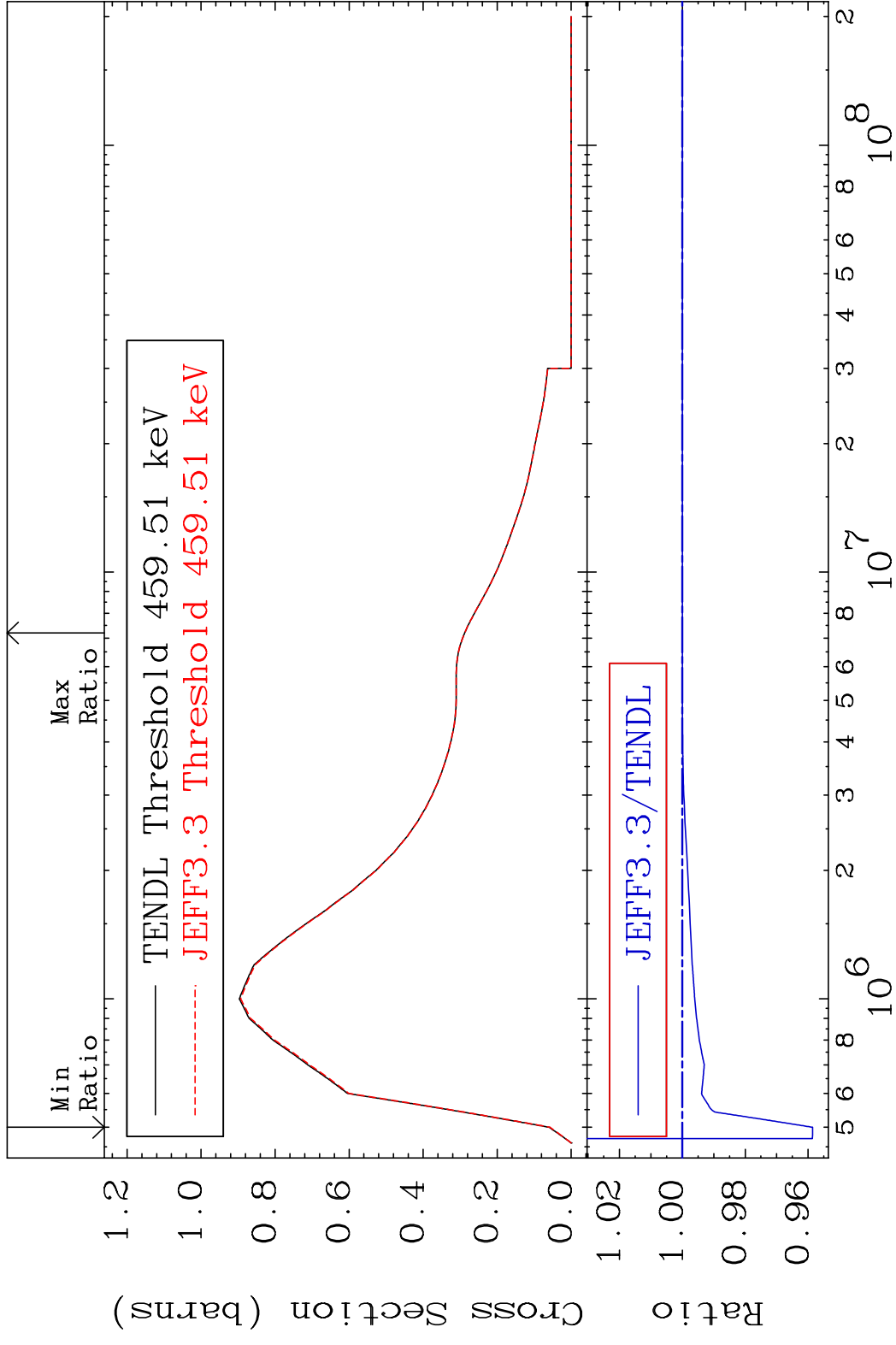


40 Incident Energy (eV) 69-Tm-170

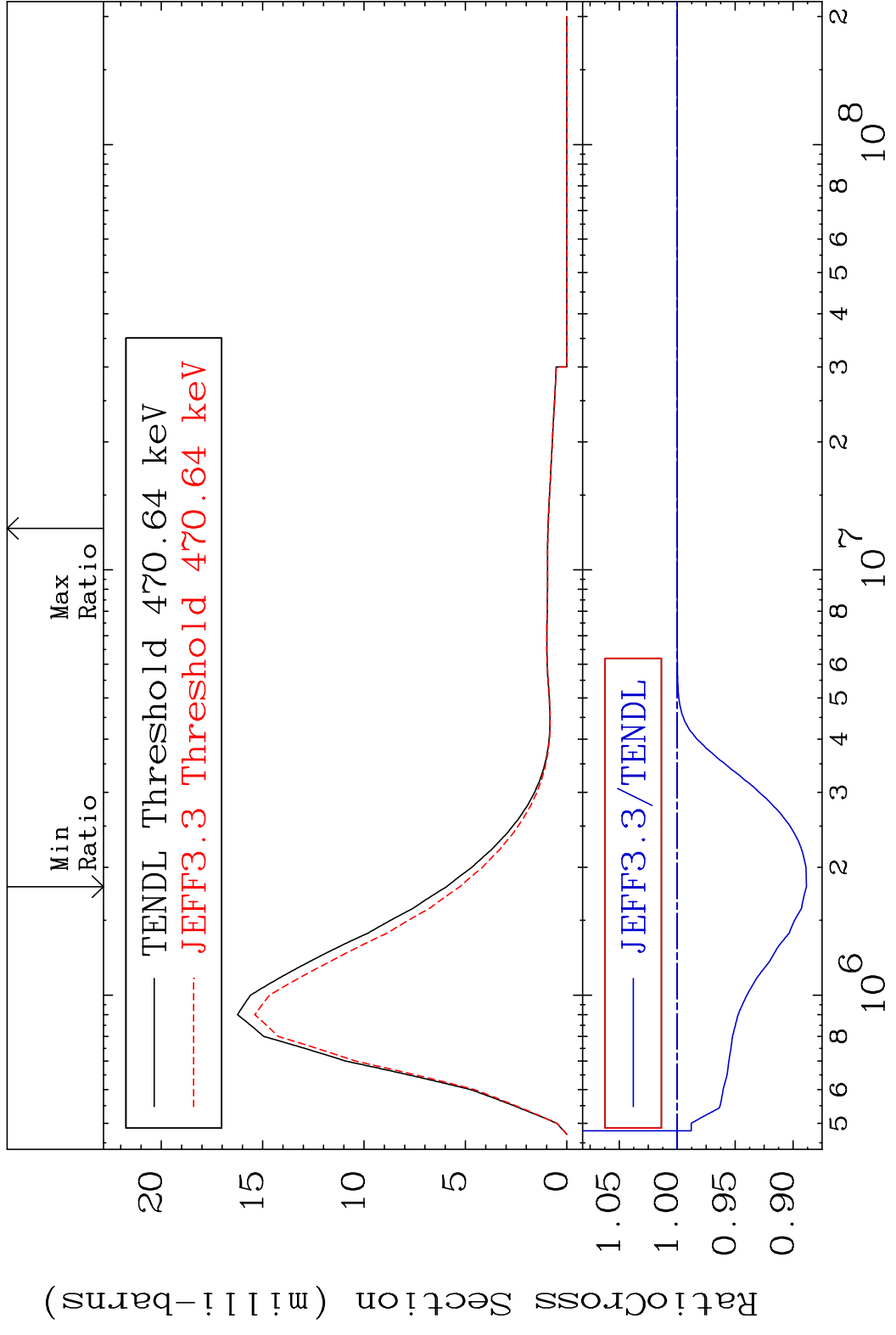
MAT 6928 MT= 72 (n, n') Level 69-Tm-170  
 Cross Section -100.0 To 0.000 %



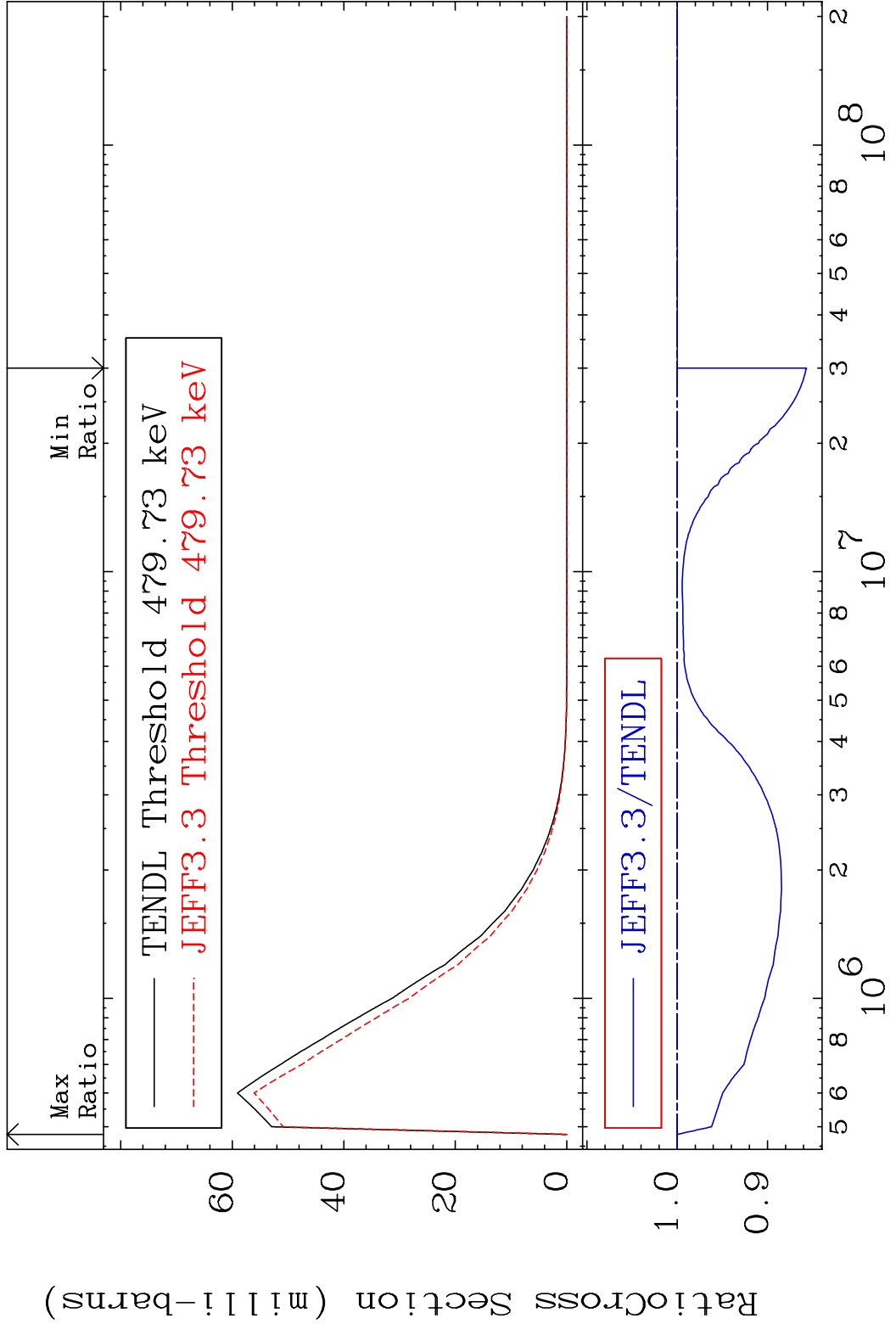
MAT 6928 MT= 73 (n, n') Level 69-Tm-170  
 Cross Section -4.142 To 0.000 %



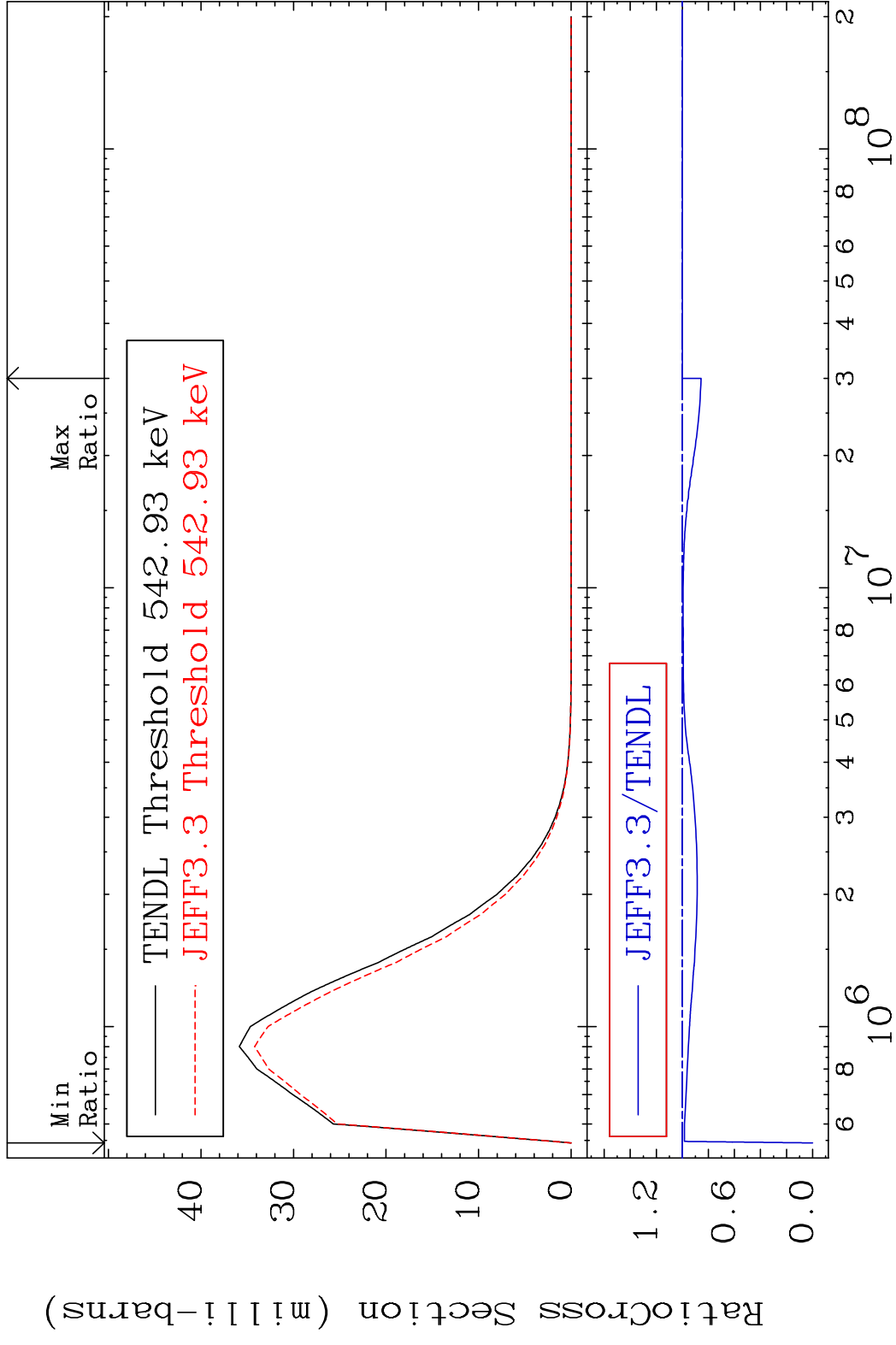
MAT 6928 MT= 74 (n, n') Level 69-Tm-170  
 Cross Section -11.14 To 0.000 %



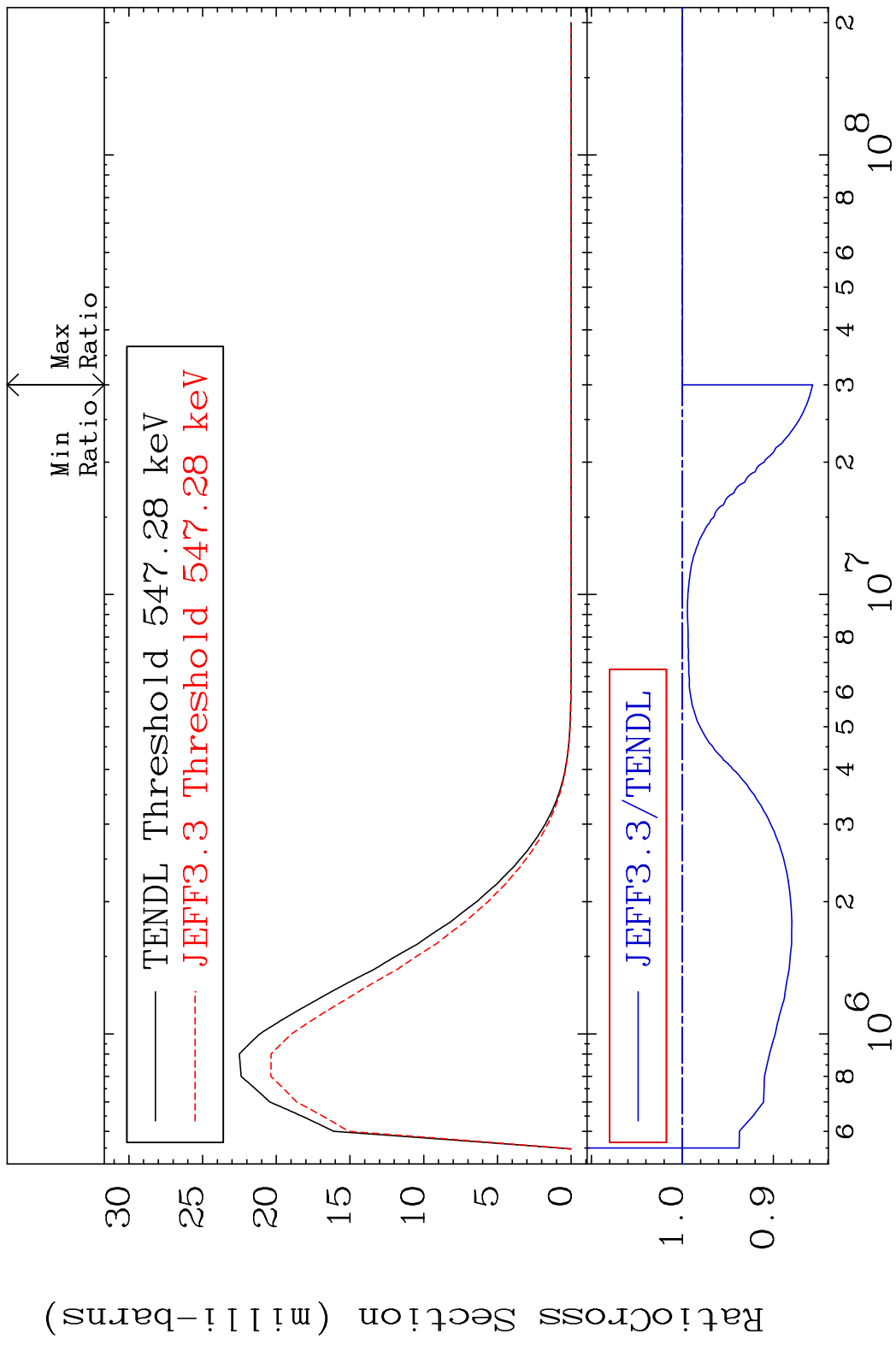
MAT 6928 MT= 75 (n,n') Level 69-Tm-170  
 Cross Section -14.31 To 0.000 %



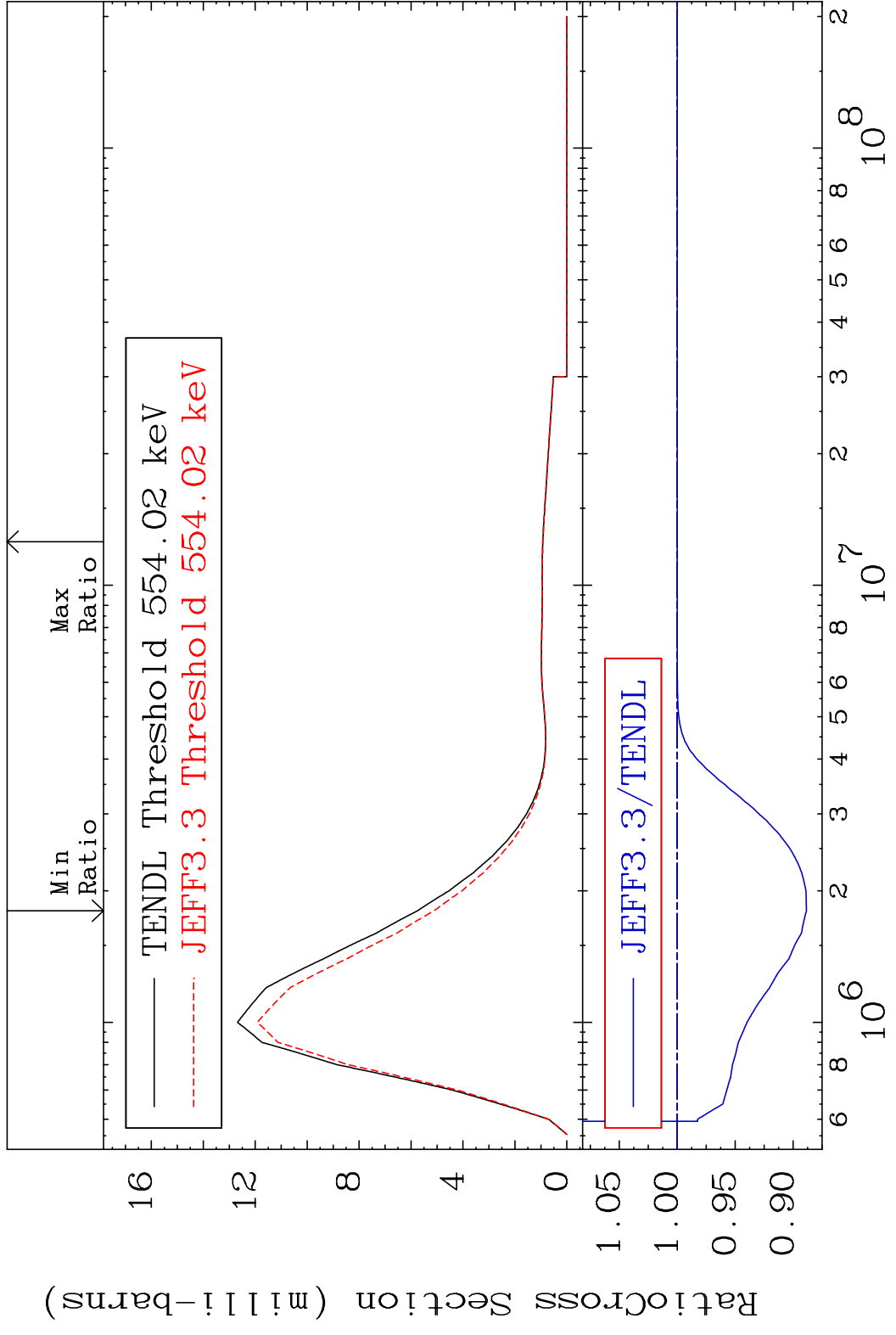
MAT 6928 MT= 76 (n, n') Level 69-Tm-170  
 Cross Section -100.0 To 0.000 %



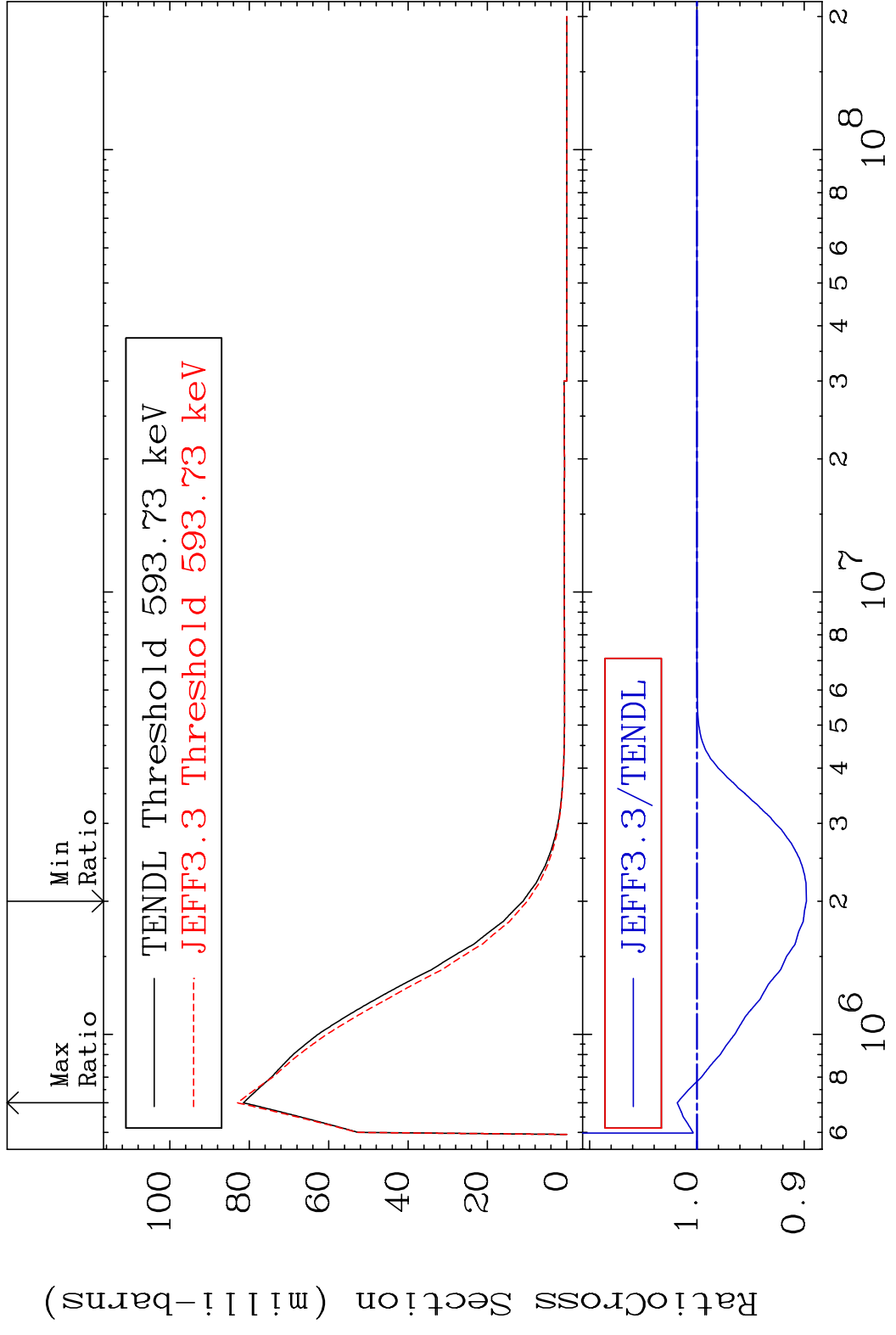
MAT 6928      MT= 77 (n, n') Level      69-Tm-170  
 Cross Section      -14.31 To 0.000 %



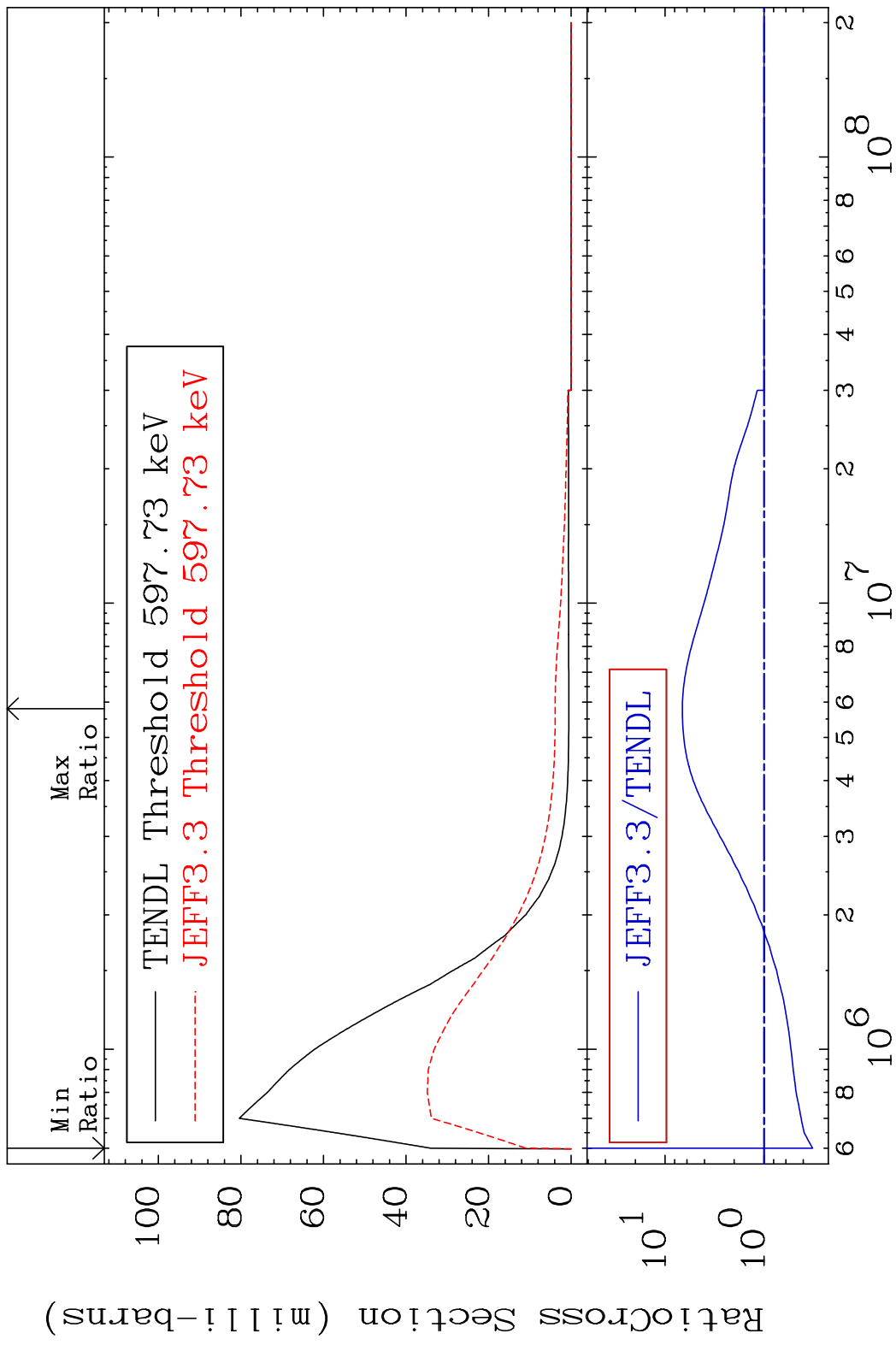
MAT 6928 MT= 78 (n, n') Level 69-Tm-170  
 Cross Section -11.15 To 0.000 %



MAT 6928 MT= 79 (n, n') Level 69-Tm-170  
 Cross Section -10.20 To 1.844 %



MAT 6928 MT= 80 (n, n') Level 69-Tm-170  
 Cross Section -67.72 To 569.3 %



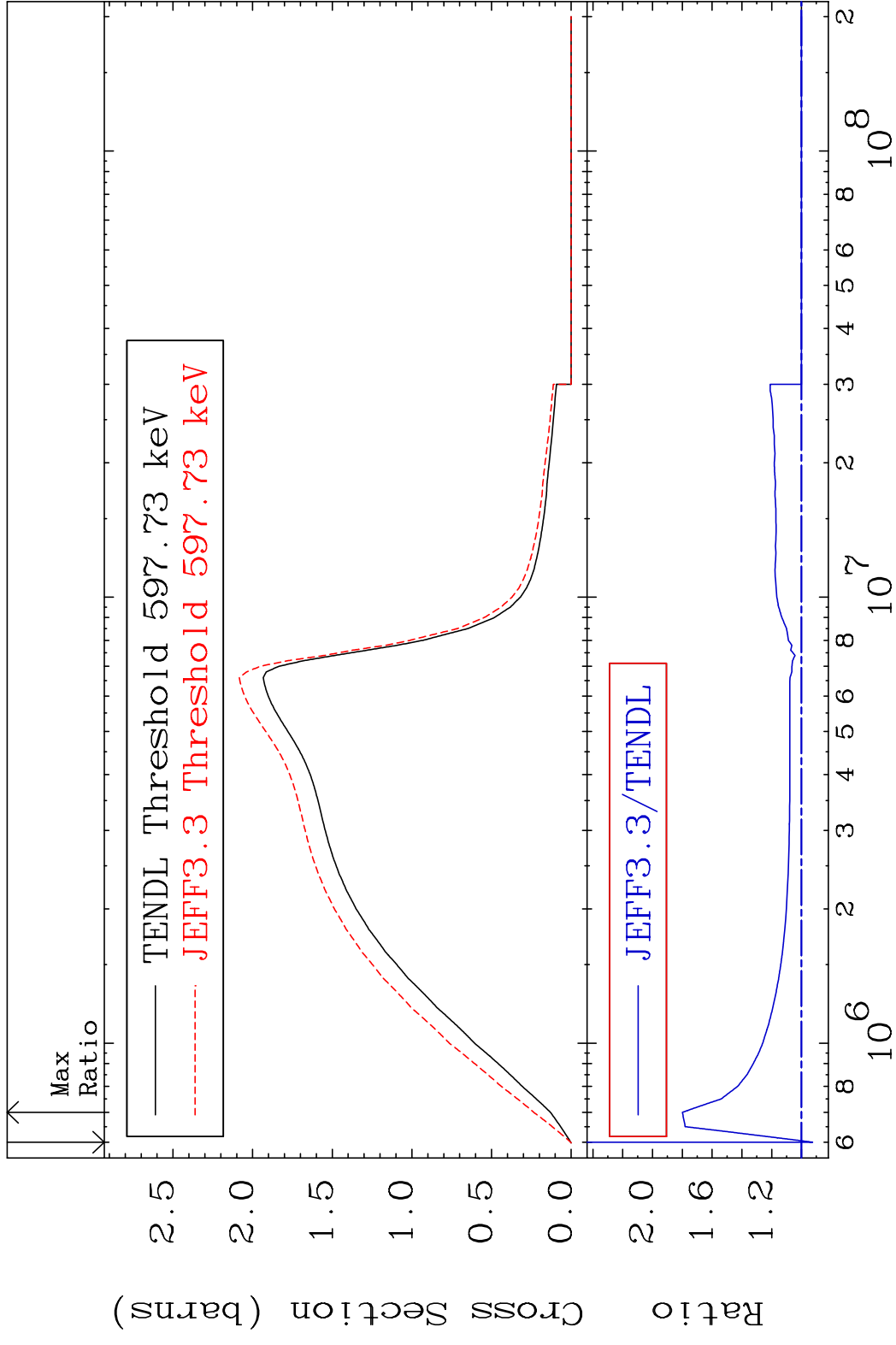
MAT 6928

(n, n') Continuum

69-Tm-170

Cross Section

-7.442 To 79.96 %



50

Incident Energy (eV)

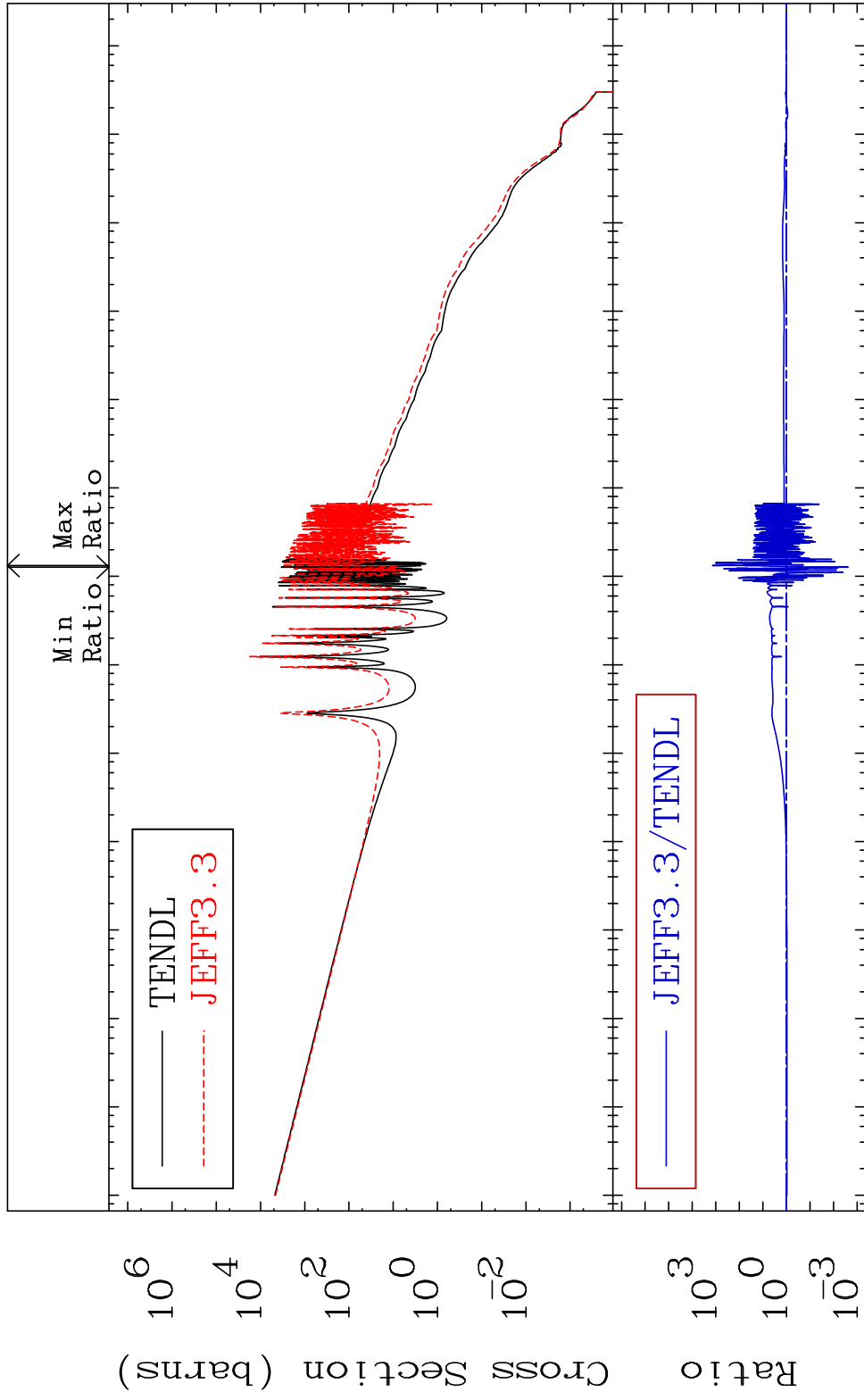
69-Tm-170

MAT 6928

(n,  $\gamma$ )

69-Tm-170

Cross Section -99.76 To 9999. %



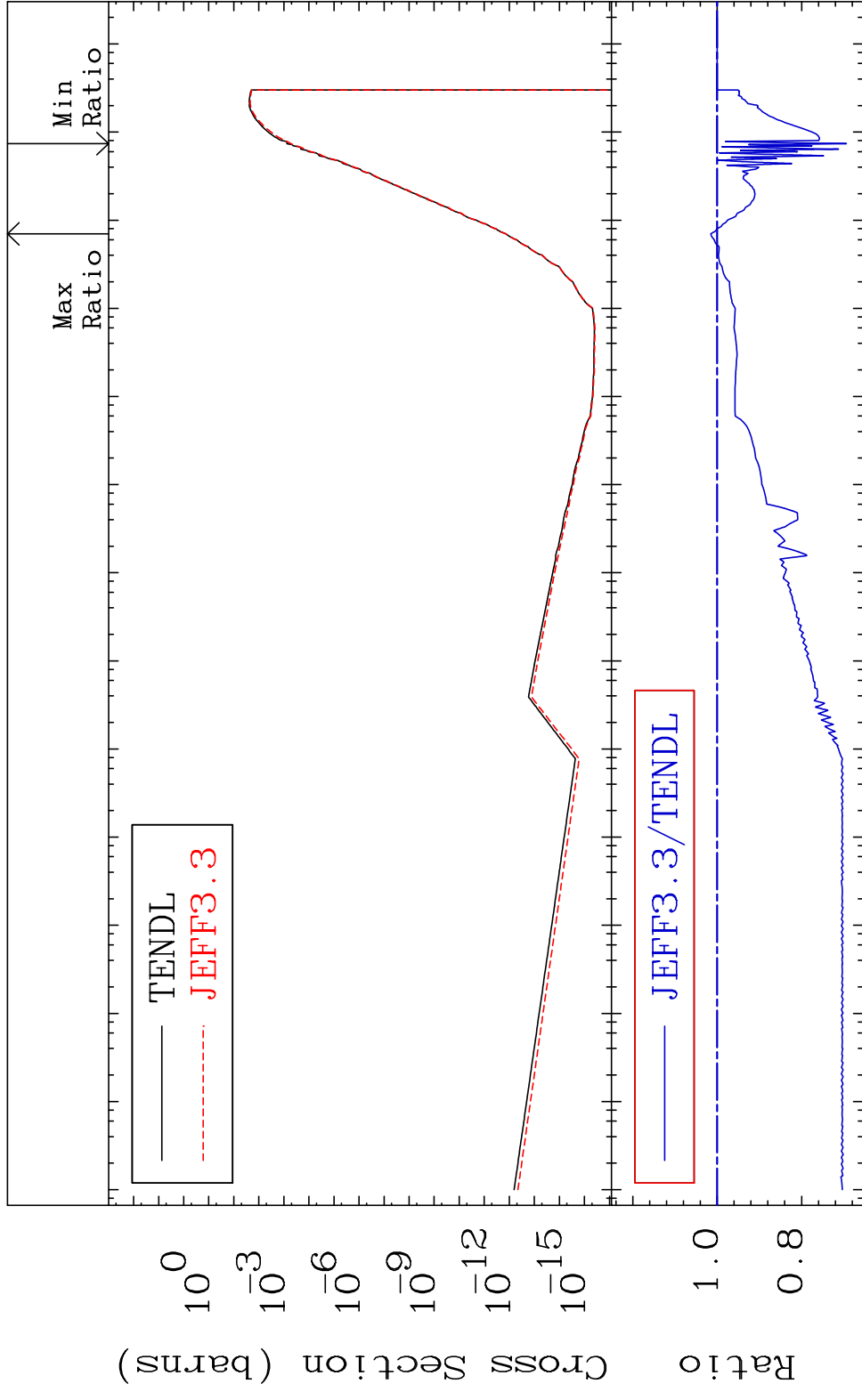
MAT 6928

(n, p)

69-Tm-170

Cross Section

-30.59 To 1.540 %



52

Incident Energy (eV)

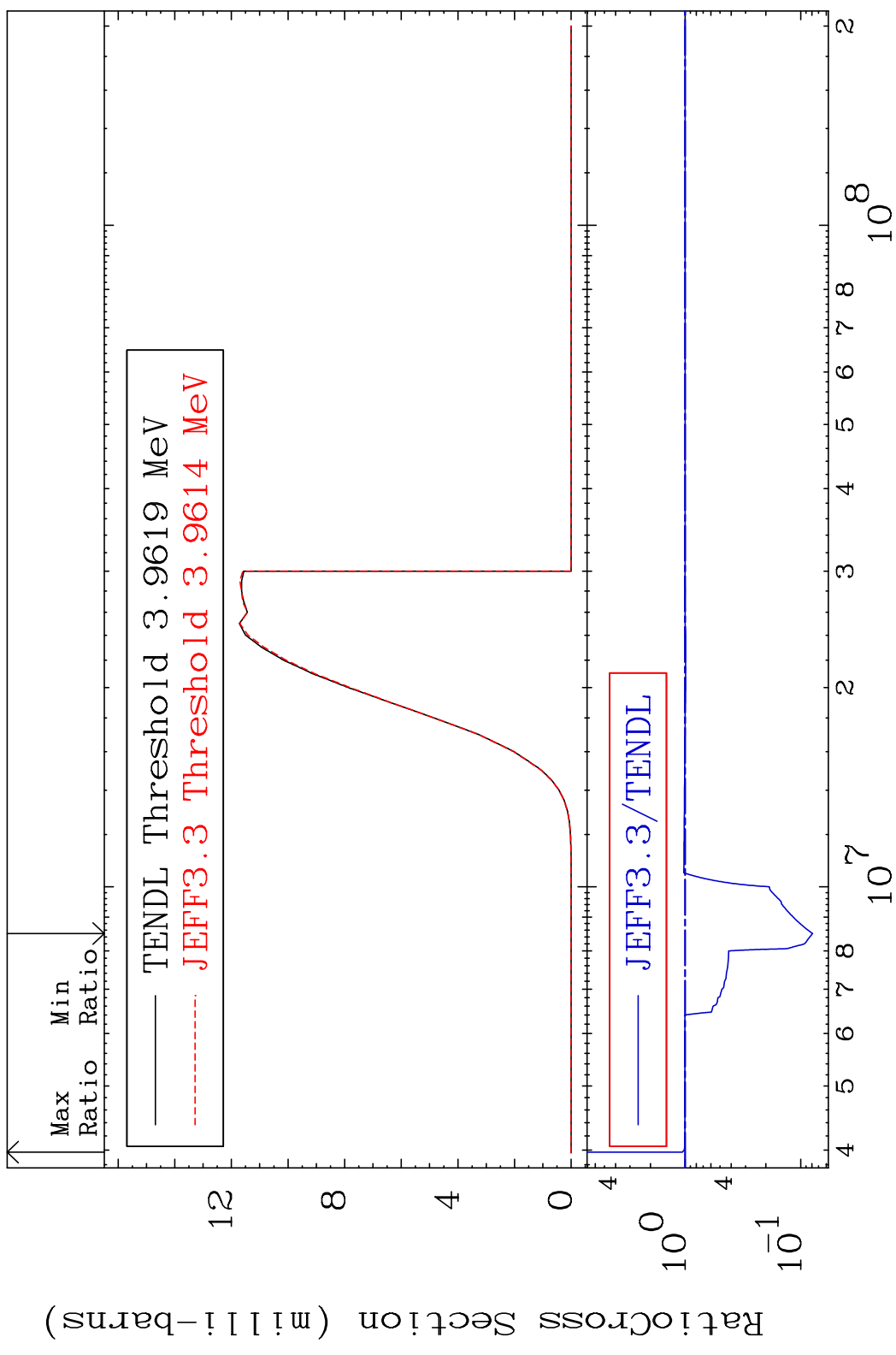
69-Tm-170

MAT 6928

(n, d)

69-Tm-170

Cross Section -92.11 To 5.748 %

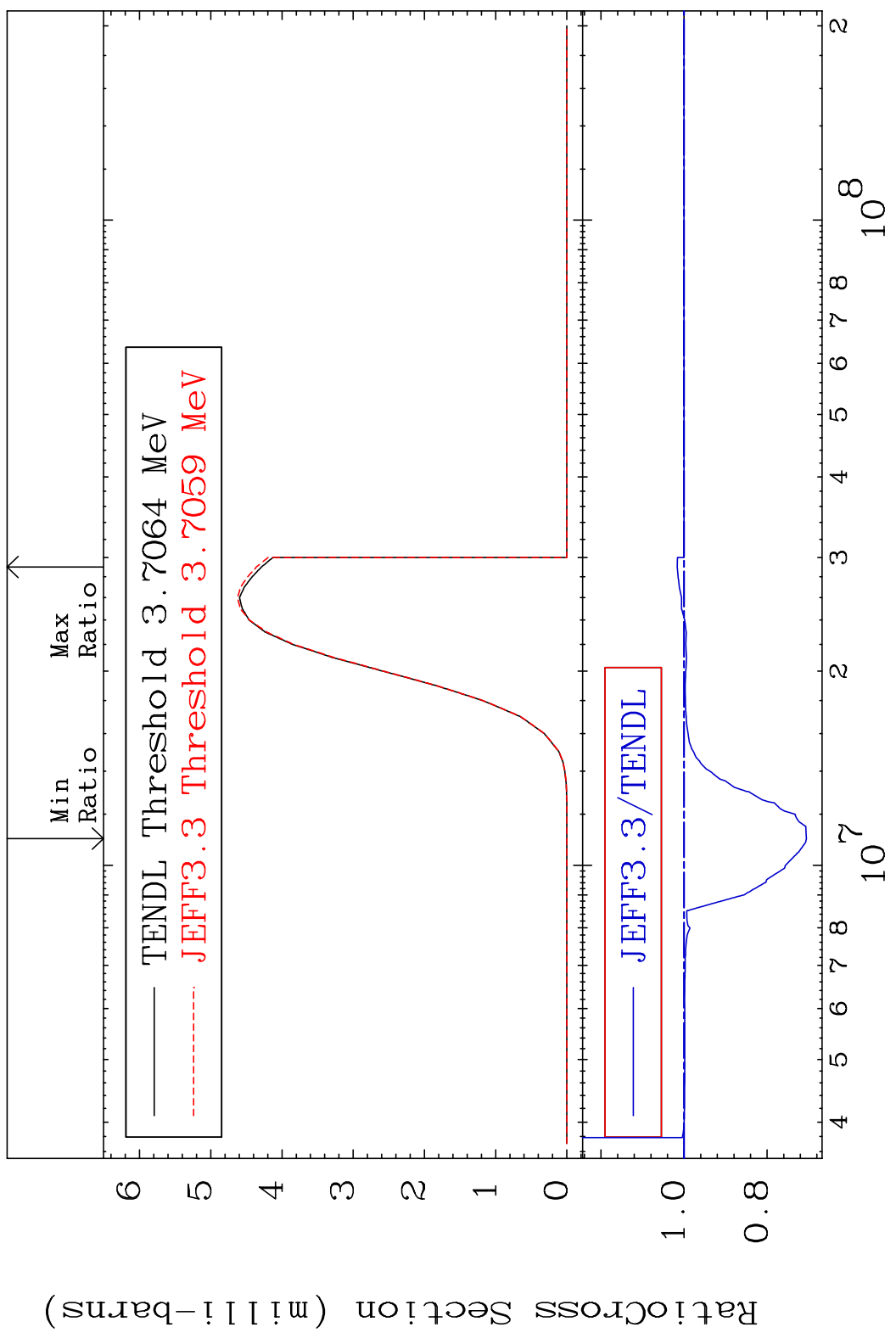


MAT 6928

(n, t)

69-Tm-170

Cross Section -29.46 To 1.665 %

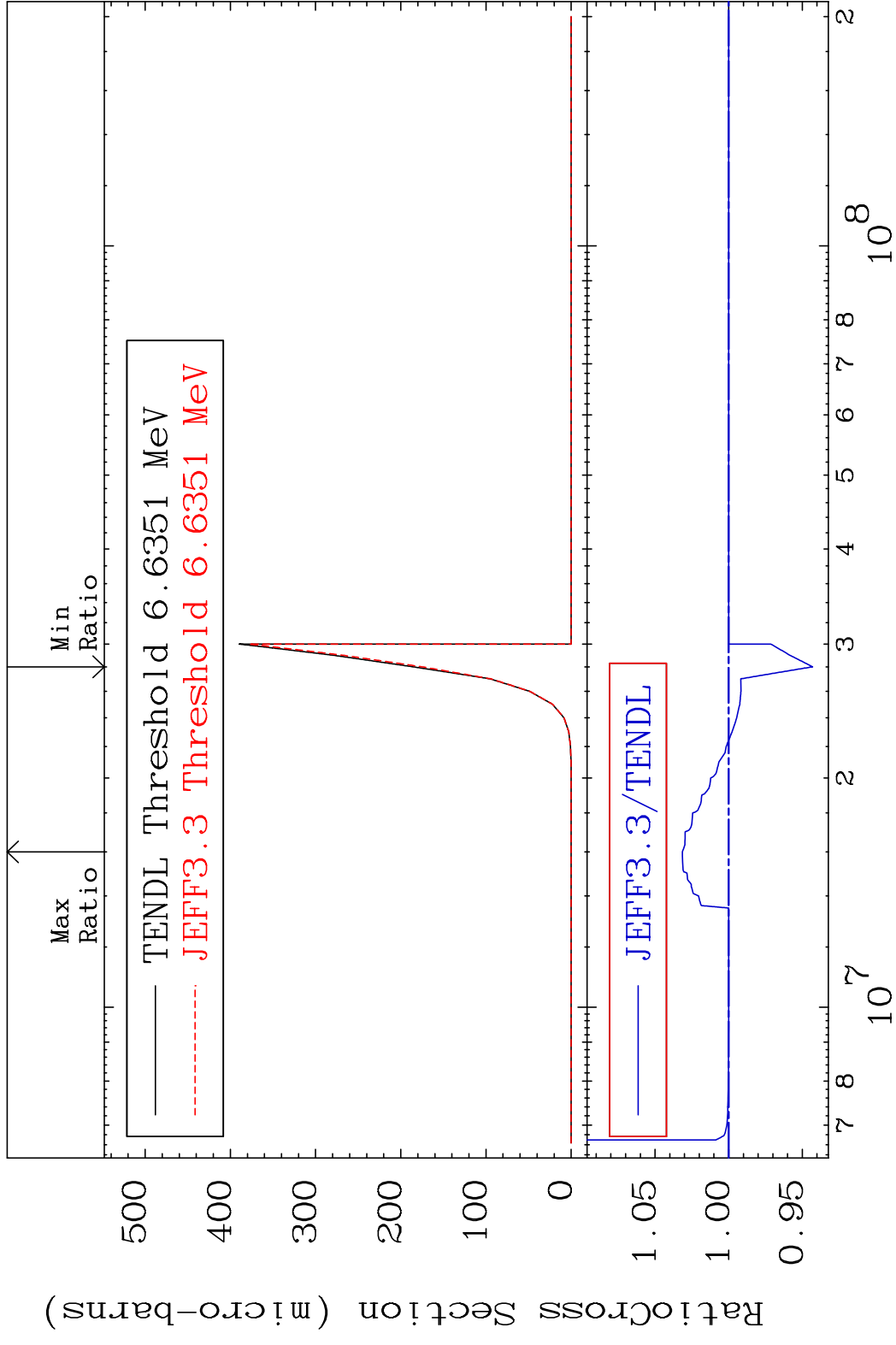


MAT 6928

(n, He-3)

69-Tm-170

Cross Section -5.696 To 3.146 %

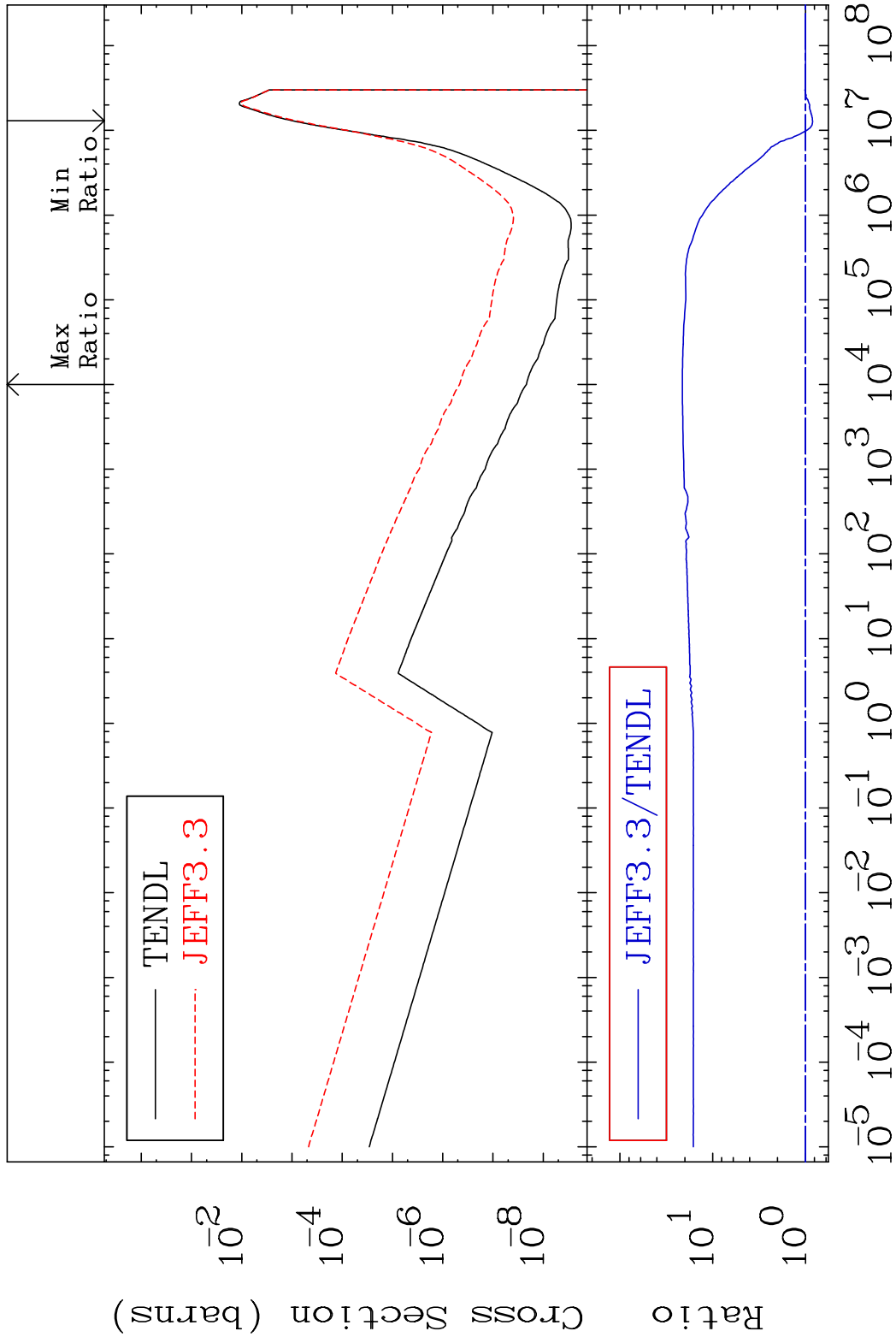


MAT 6928

(n,  $\alpha$ )

69-Tm-170

Cross Section -16.20 To 2026. %



56

Incident Energy (eV)

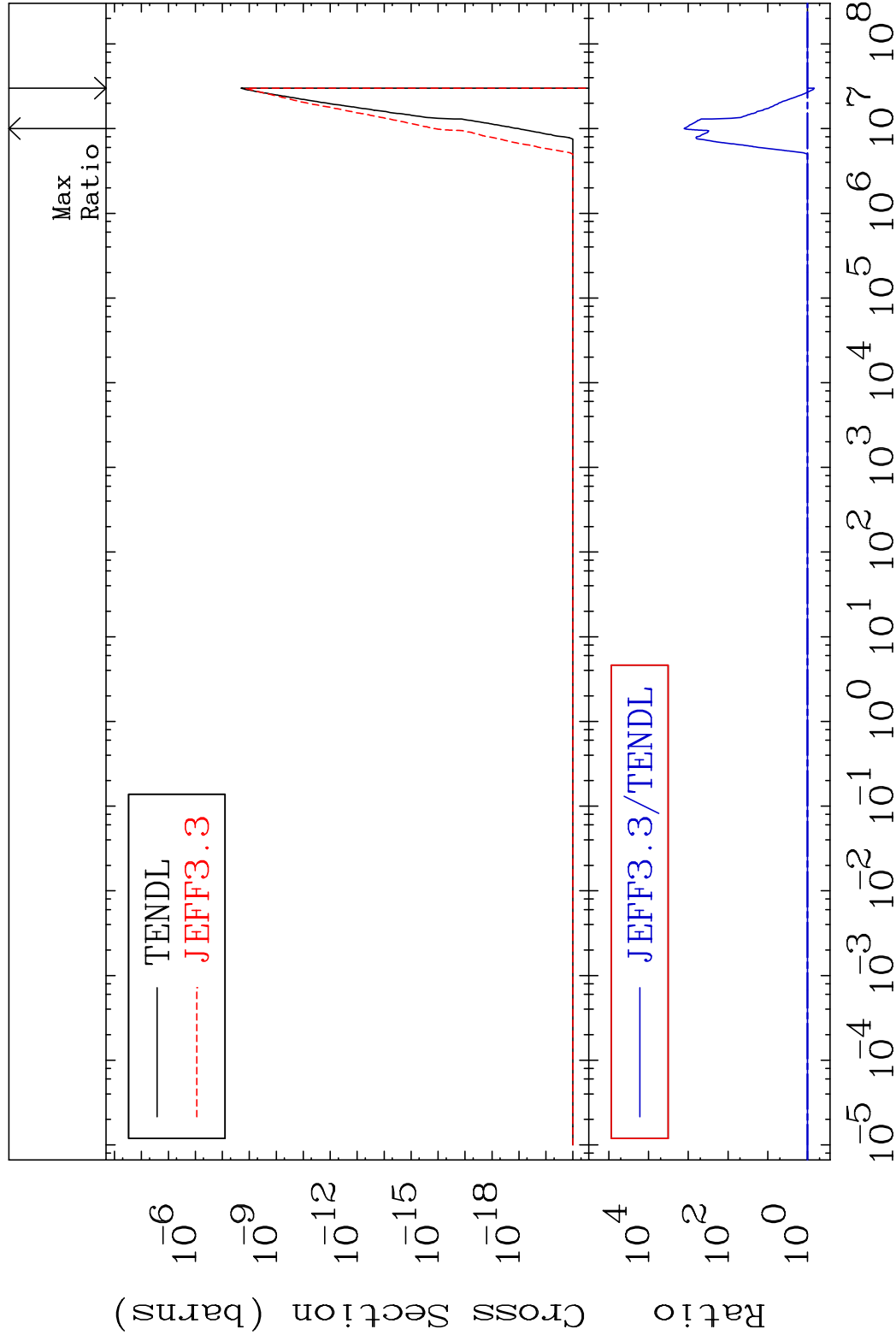
69-Tm-170

MAT 6928

(n, 2α)

69-Tm-170

Cross Section -32.08 To 9999. %



57

Incident Energy (eV)

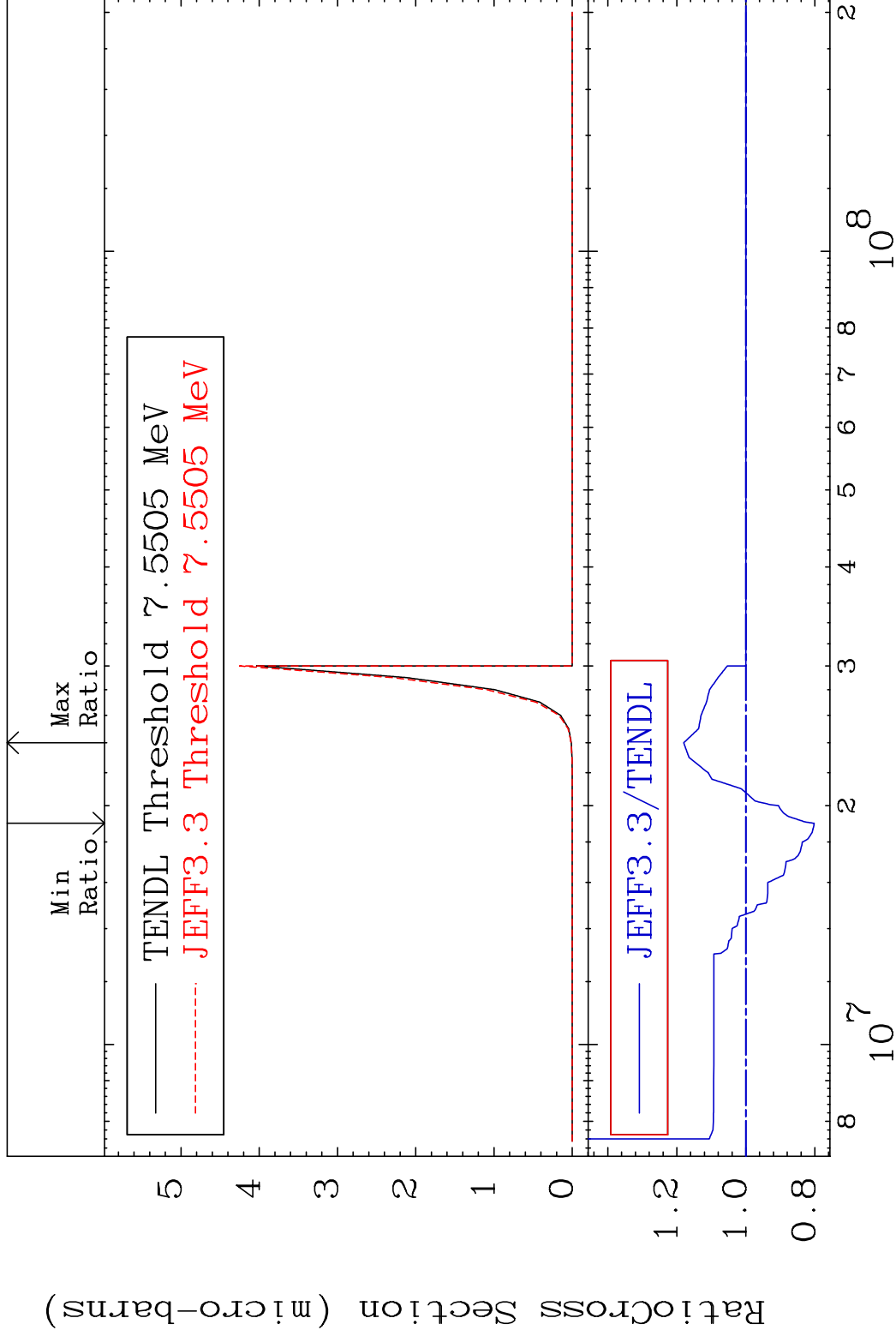
69-Tm-170

MAT 6928

(n,2p)

69-Tm-170

Cross Section -19.79 To 18.02 %



58

Incident Energy (eV)

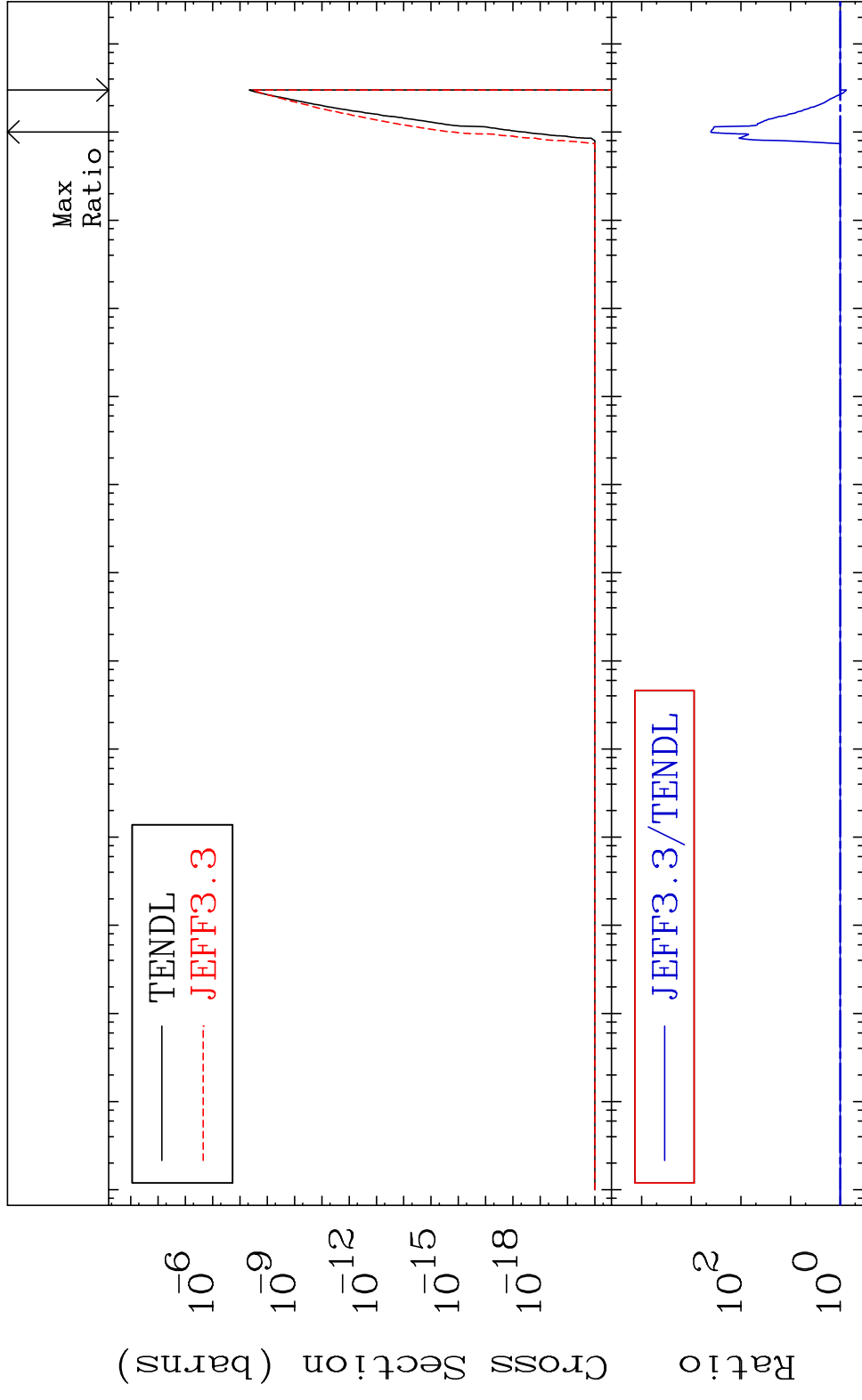
69-Tm-170

MAT 6928

(n,p)  $\alpha$

69-Tm-170

Cross Section -24.69 To 9999. %



59

Incident Energy (eV)

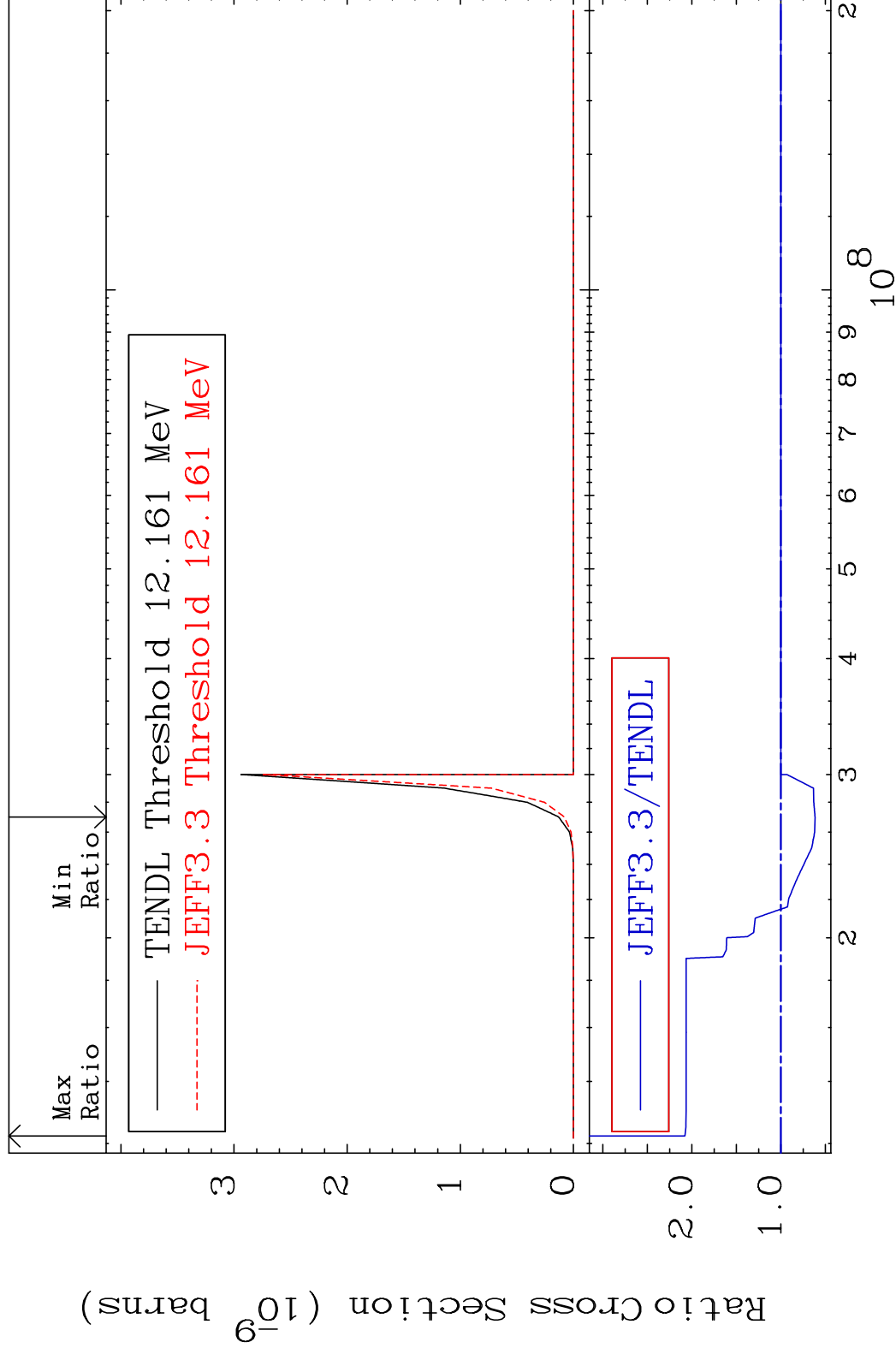
69-Tm-170

MAT 6928

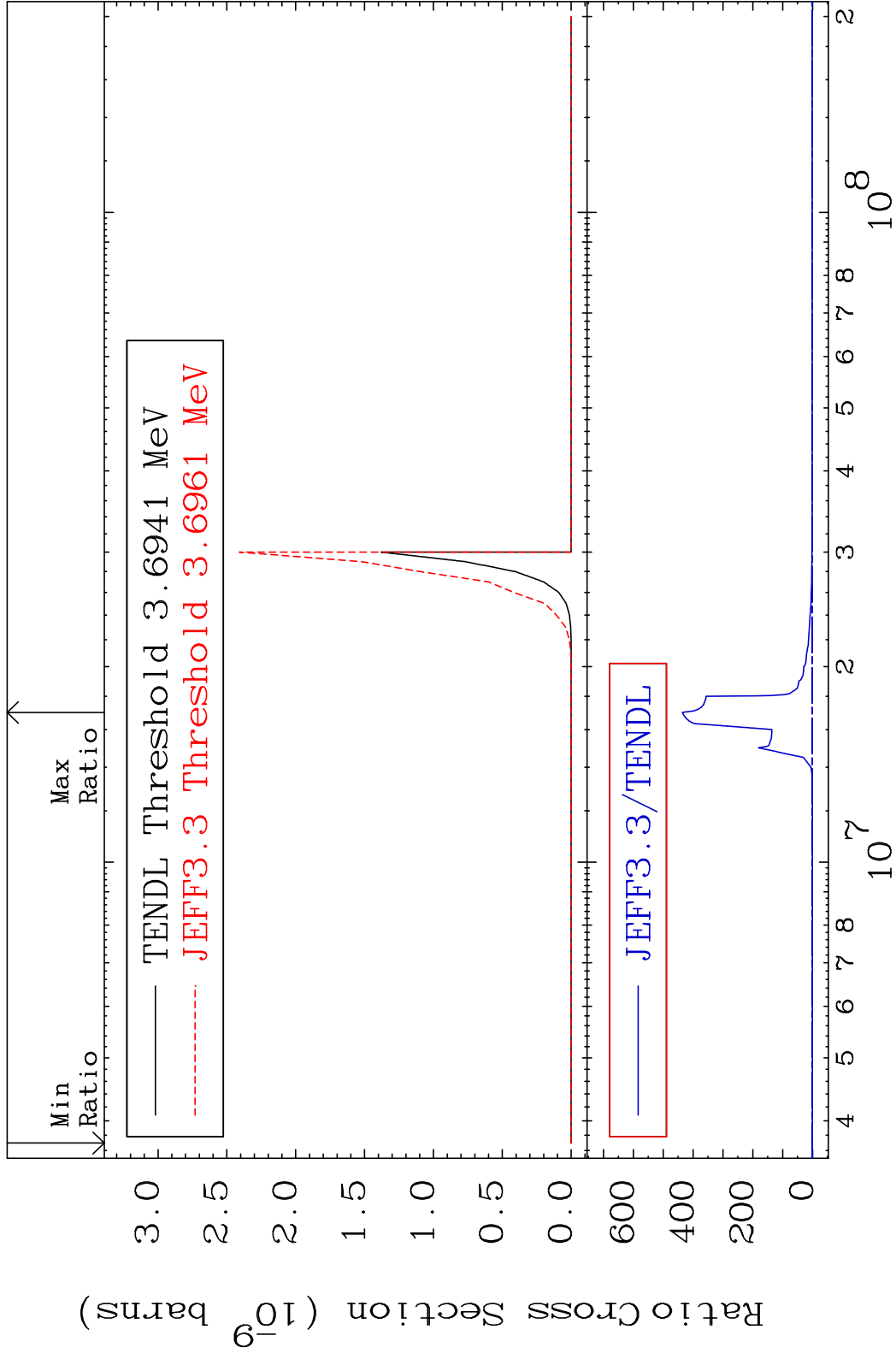
(n,p) d

69-Tm-170

Cross Section -38.34 To 108.1 %



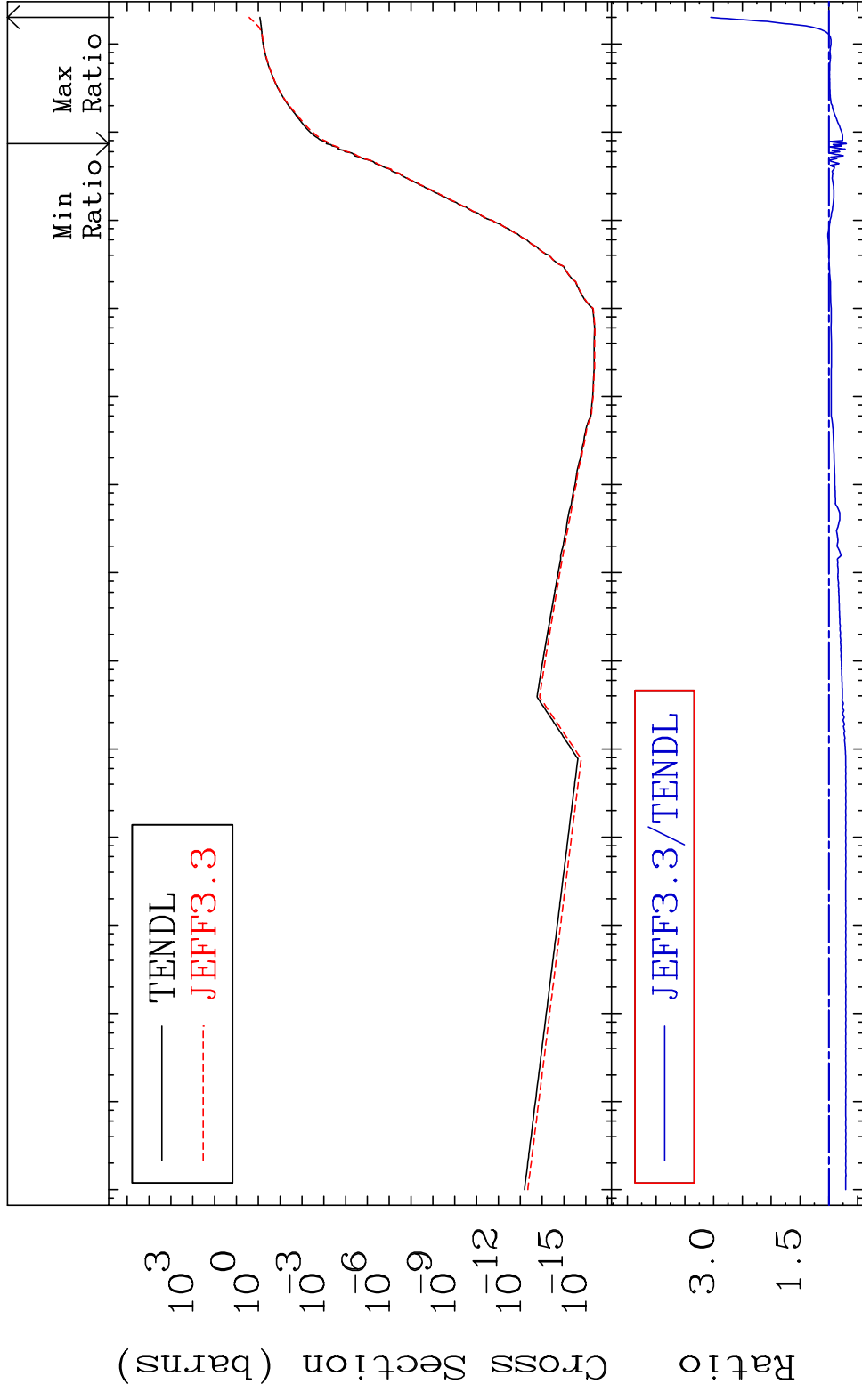
MAT 6928 (n,d)  $\alpha$  69-Tm-170  
 Cross Section -100.0 To 9999. %



MAT 6928

Hydrogen Production  
Cross Section -30.59 To 205.1 %

69-Tm-170

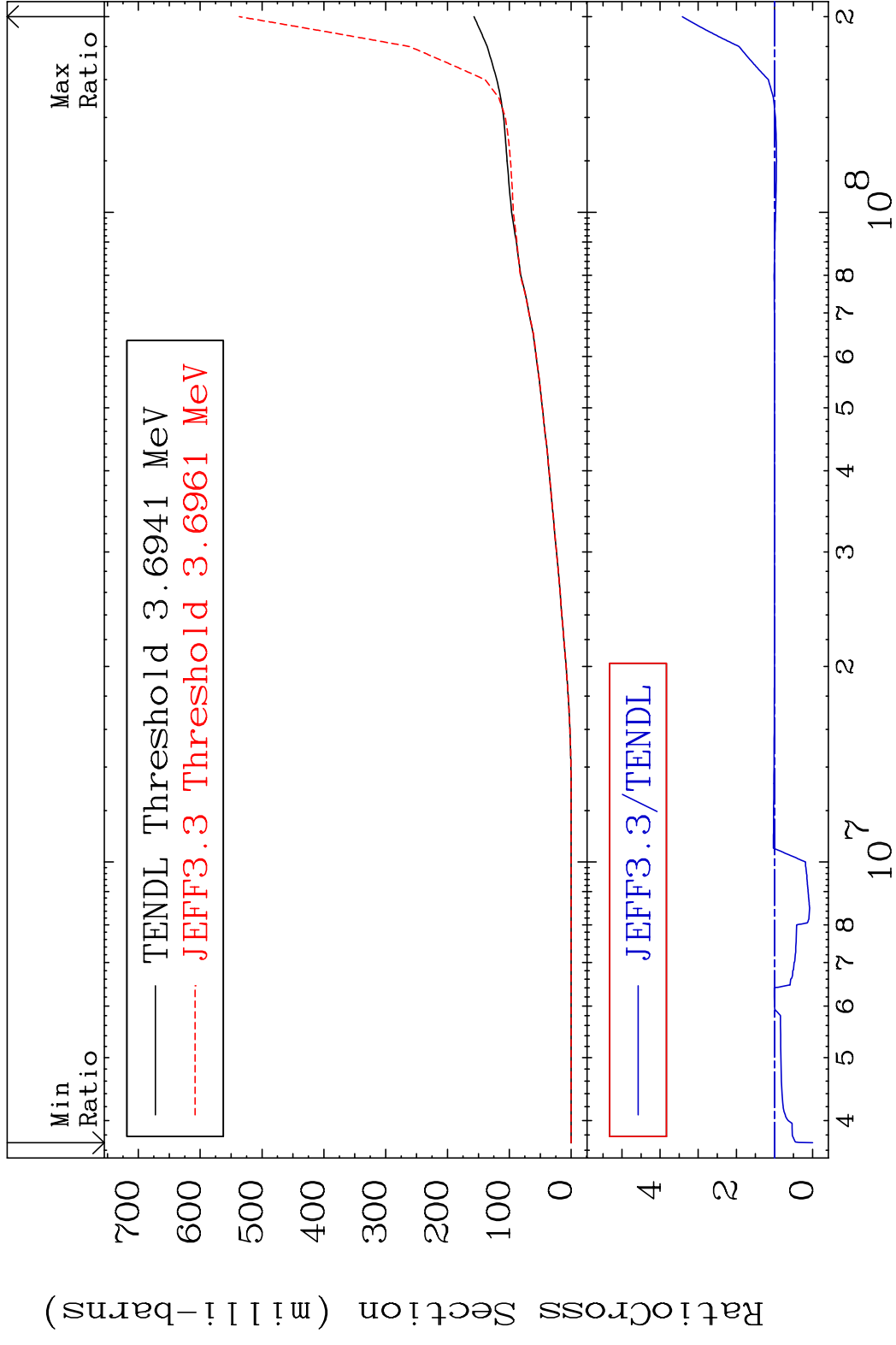


MAT 6928

Deuterium Production

69-Tm-170

Cross Section -100.0 To 241.6 %



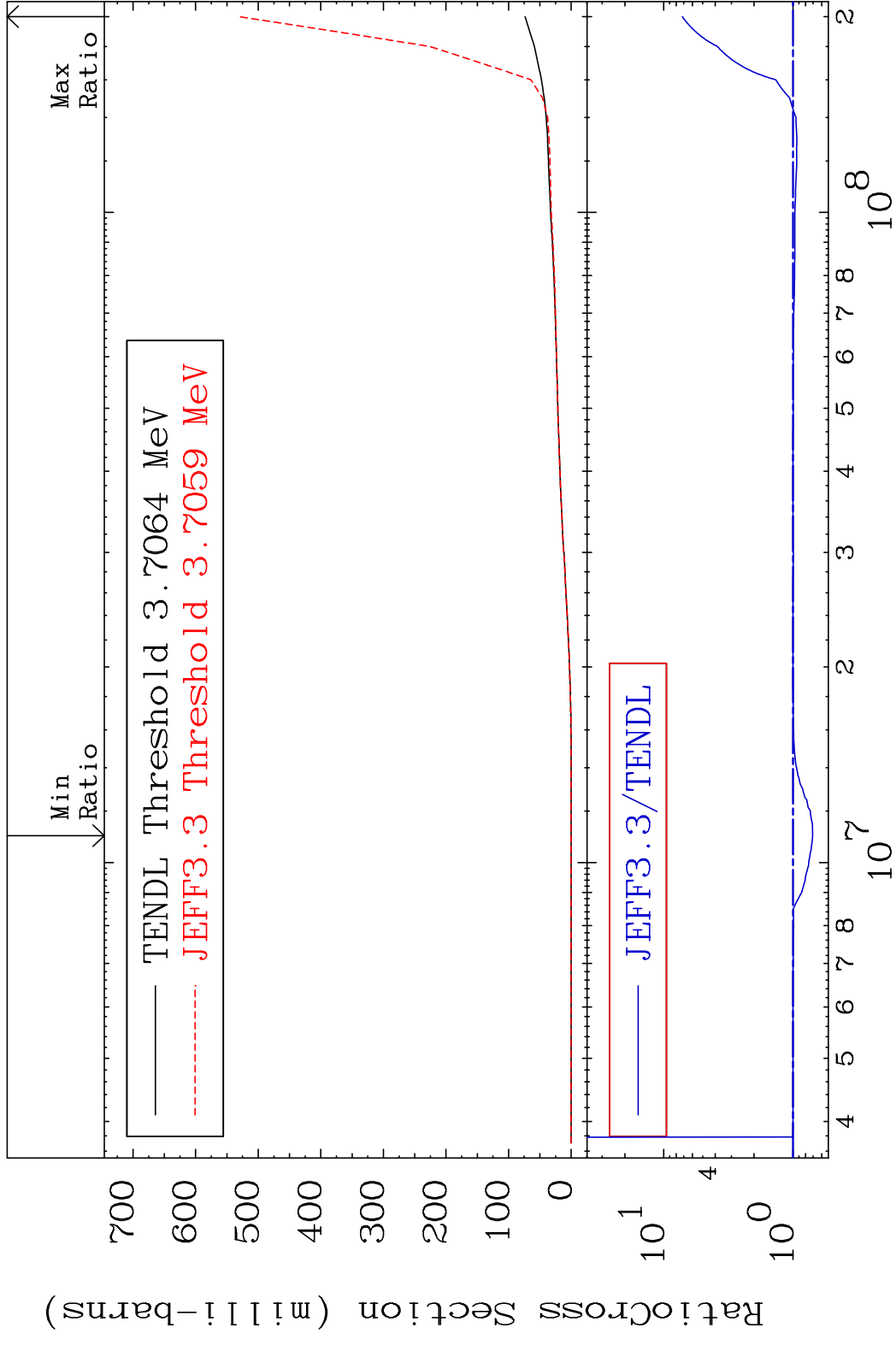
63

Incident Energy (eV)

69-Tm-170

MAT 6928

Tritium Production 69-Tm-170  
Cross Section -29.46 To 617.8 %

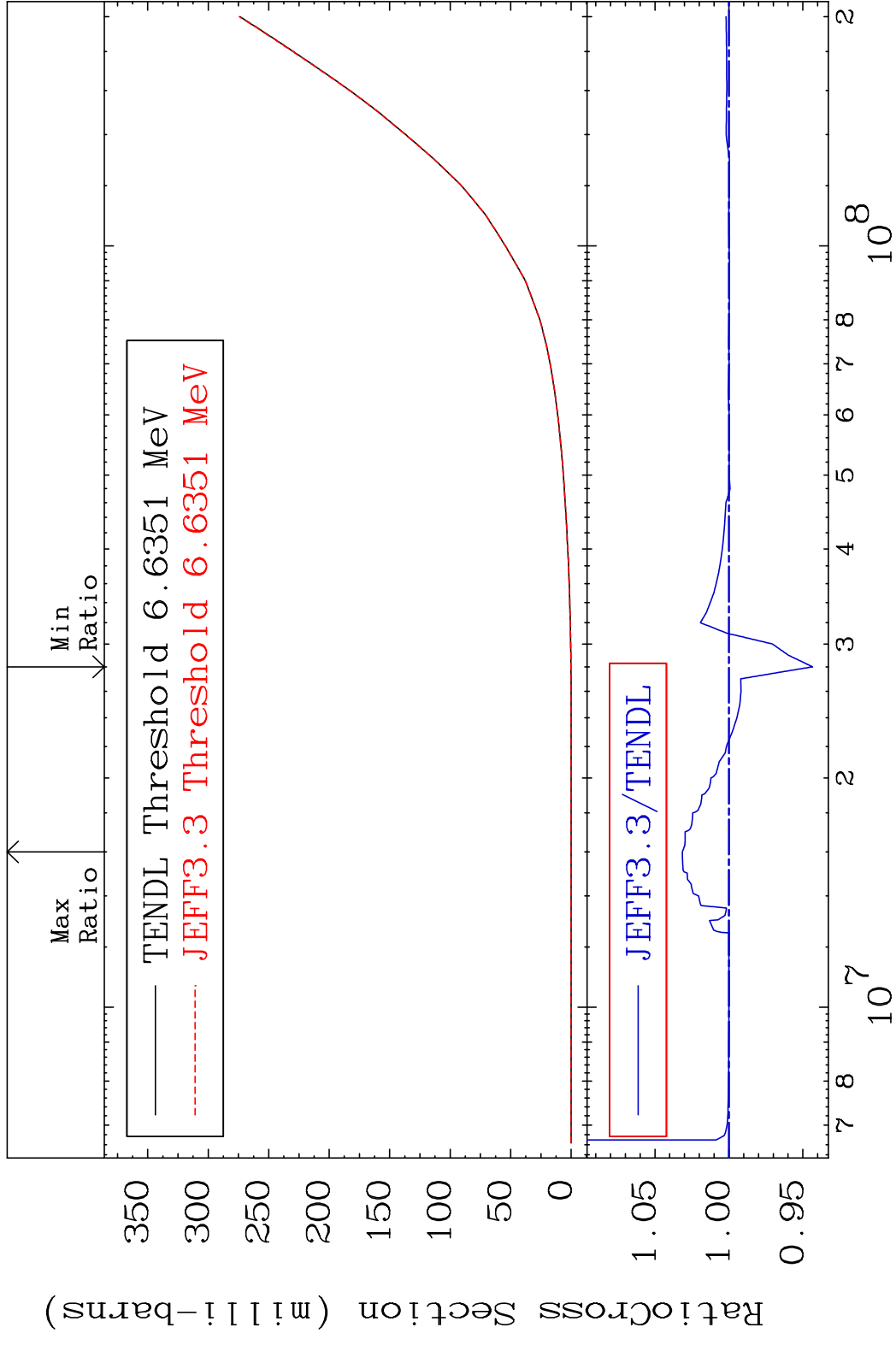


MAT 6928

He-3 Production

69-Tm-170

Cross Section -5.654 To 3.146 %



65

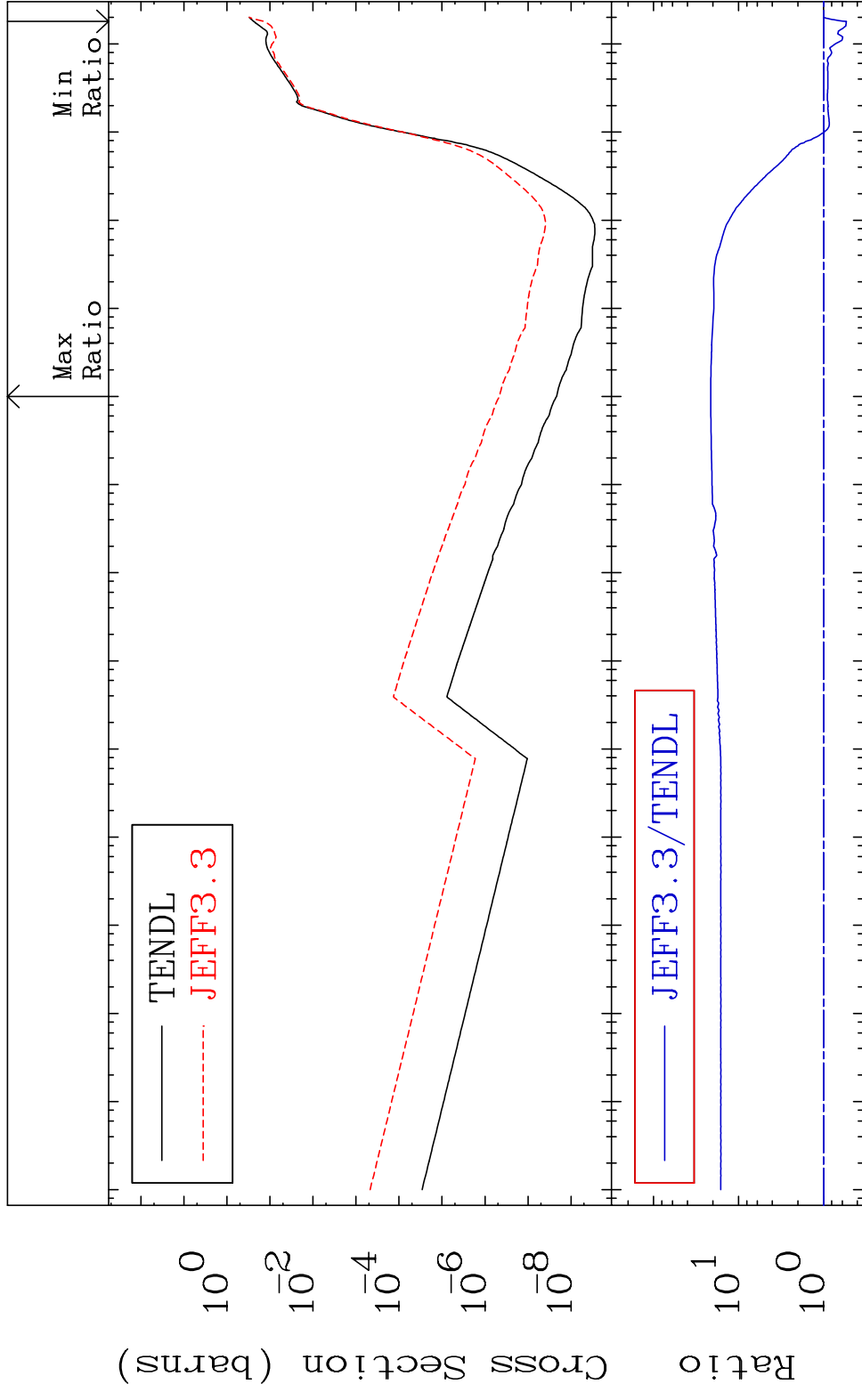
Incident Energy (eV)

69-Tm-170

MAT 6928

He-4 Production  
Cross Section

69-Tm-170  
-46.09 To 2026. %



66

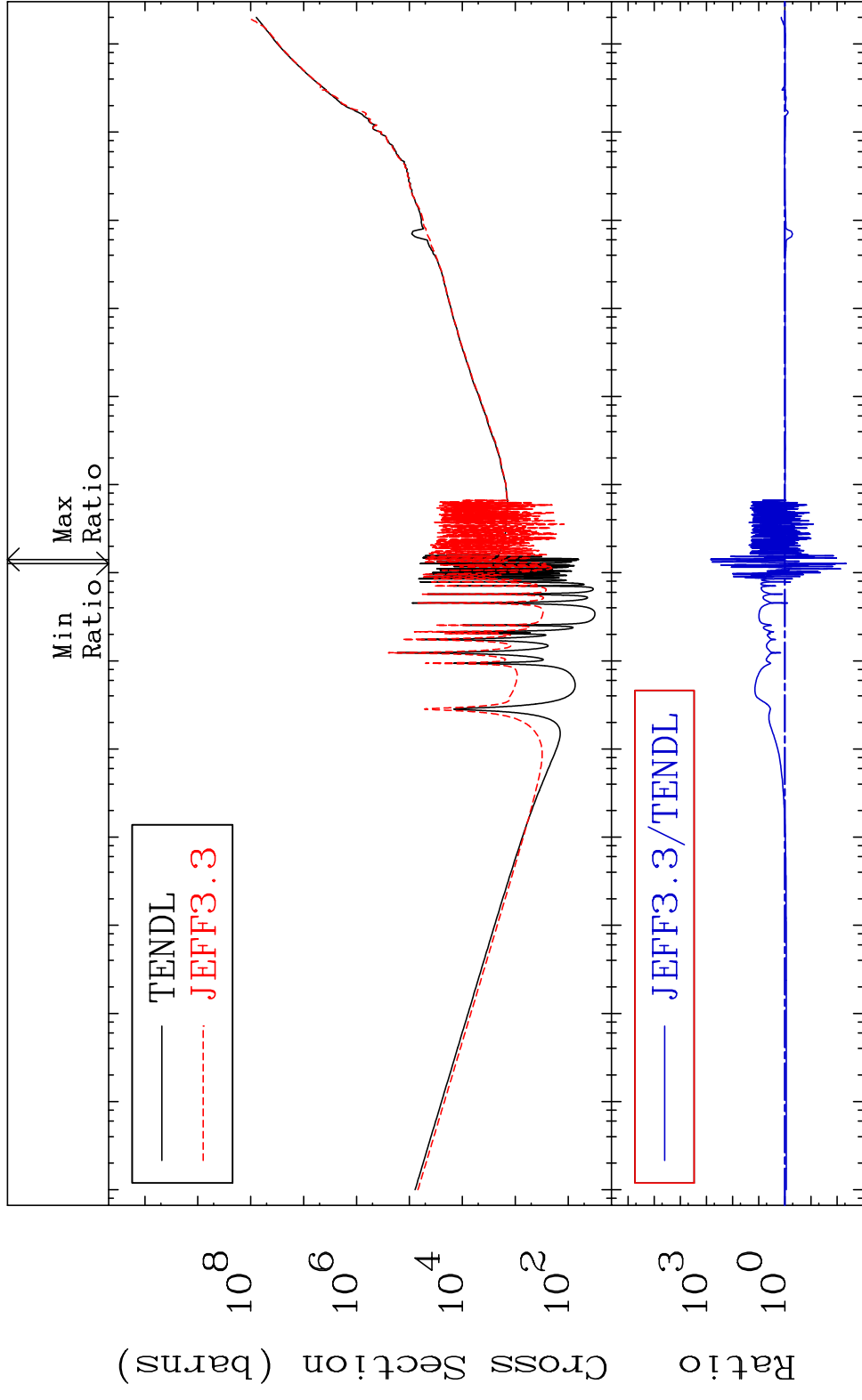
Incident Energy (eV)

69-Tm-170

MAT 6928

Kerma total (eV-barns) 69-Tm-170

Cross Section -99.55 To 9999. %



67

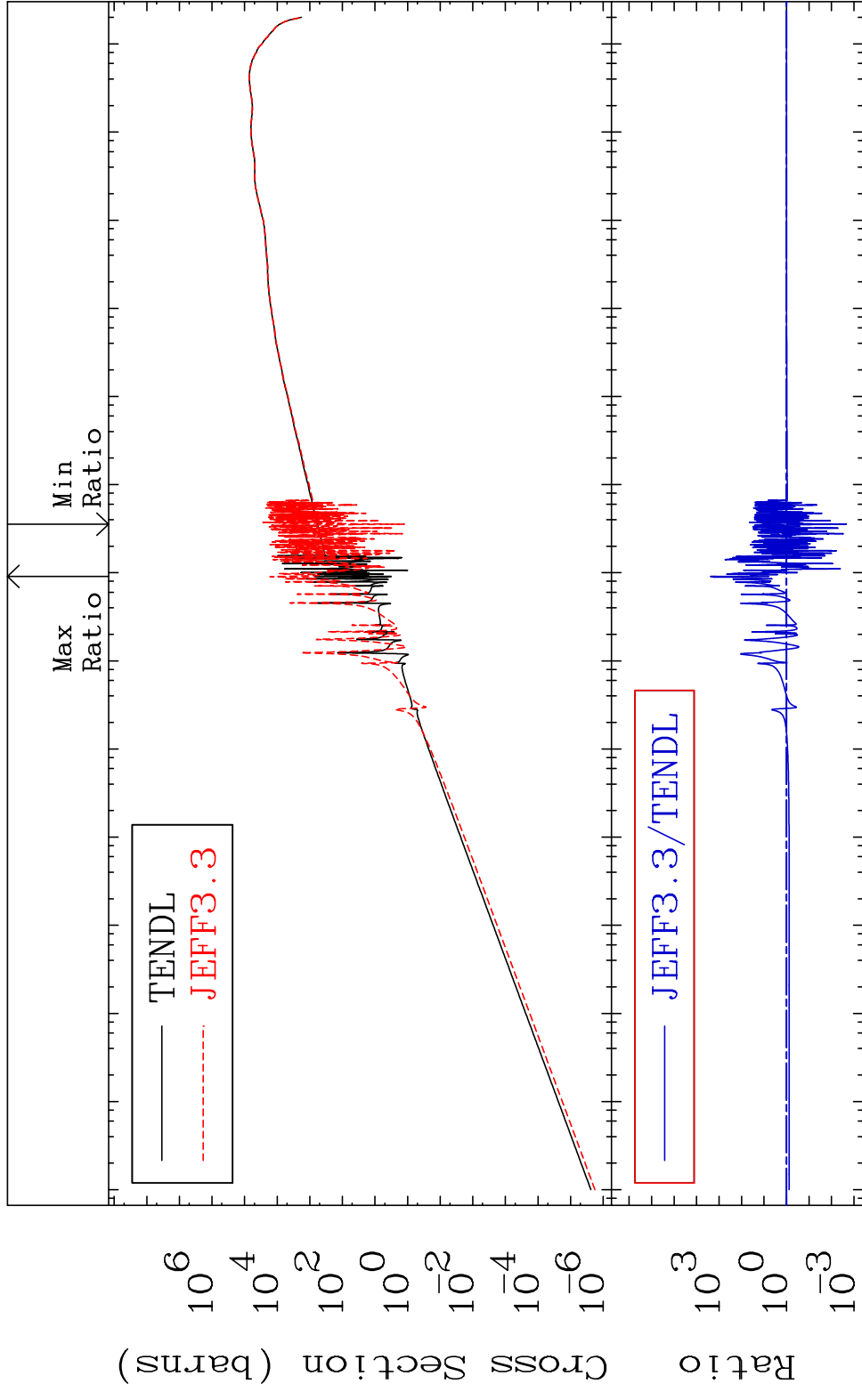
Incident Energy (eV) 69-Tm-170

MAT 6928

Kerma elastic

69-Tm-170

Cross Section -99.78 To 9999. %

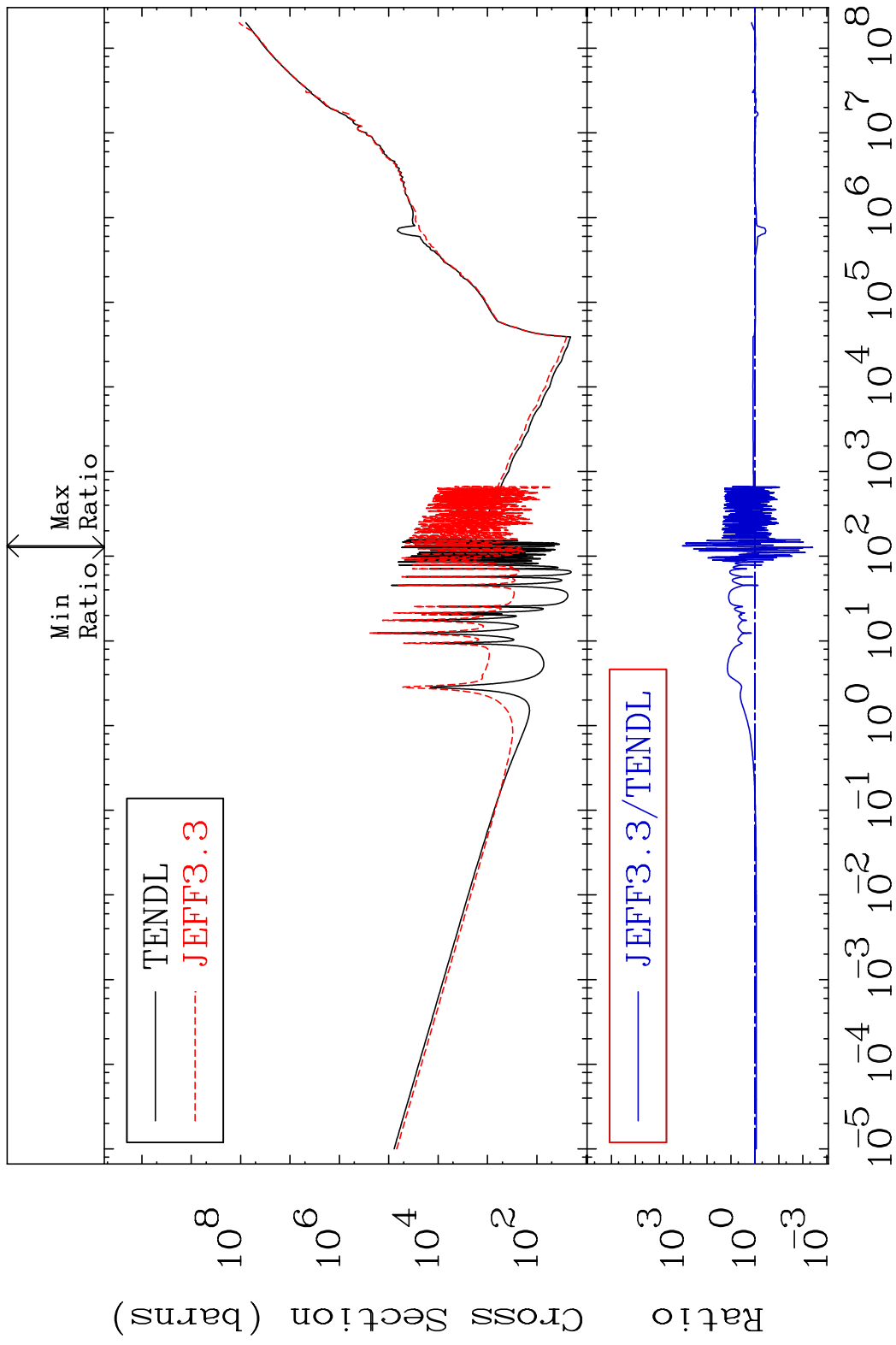


68

Incident Energy (eV)

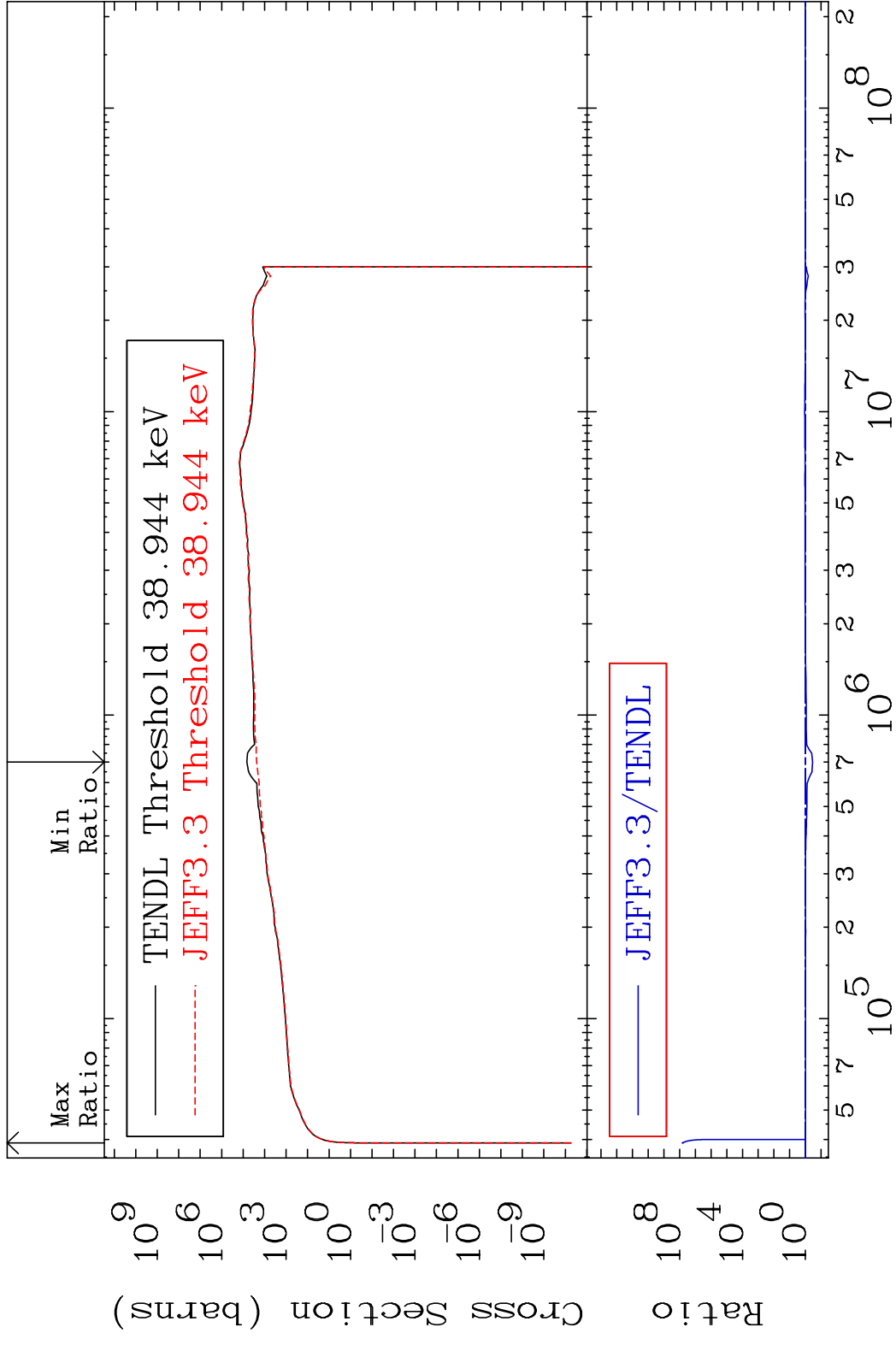
69-Tm-170

MAT 6928 Kerma non-elastic (all but mt2) 69-Tm-170  
 Cross Section -99.61 To 9999. %



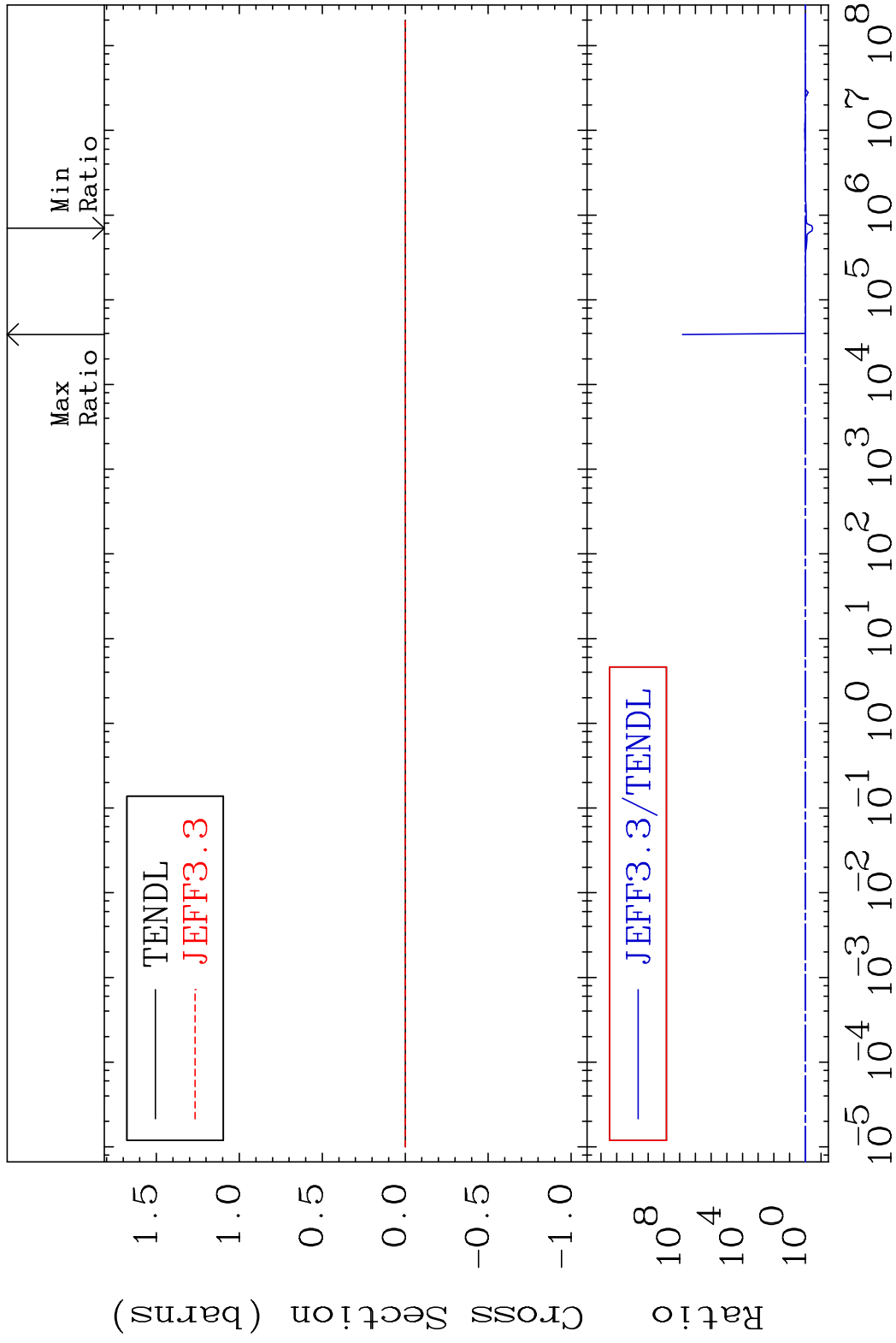
69 Incident Energy (eV) 69-Tm-170

MAT 6928 Kerma inelastic (mt51-91) 69-Tm-170  
 Cross Section -65.28 To 9999. %



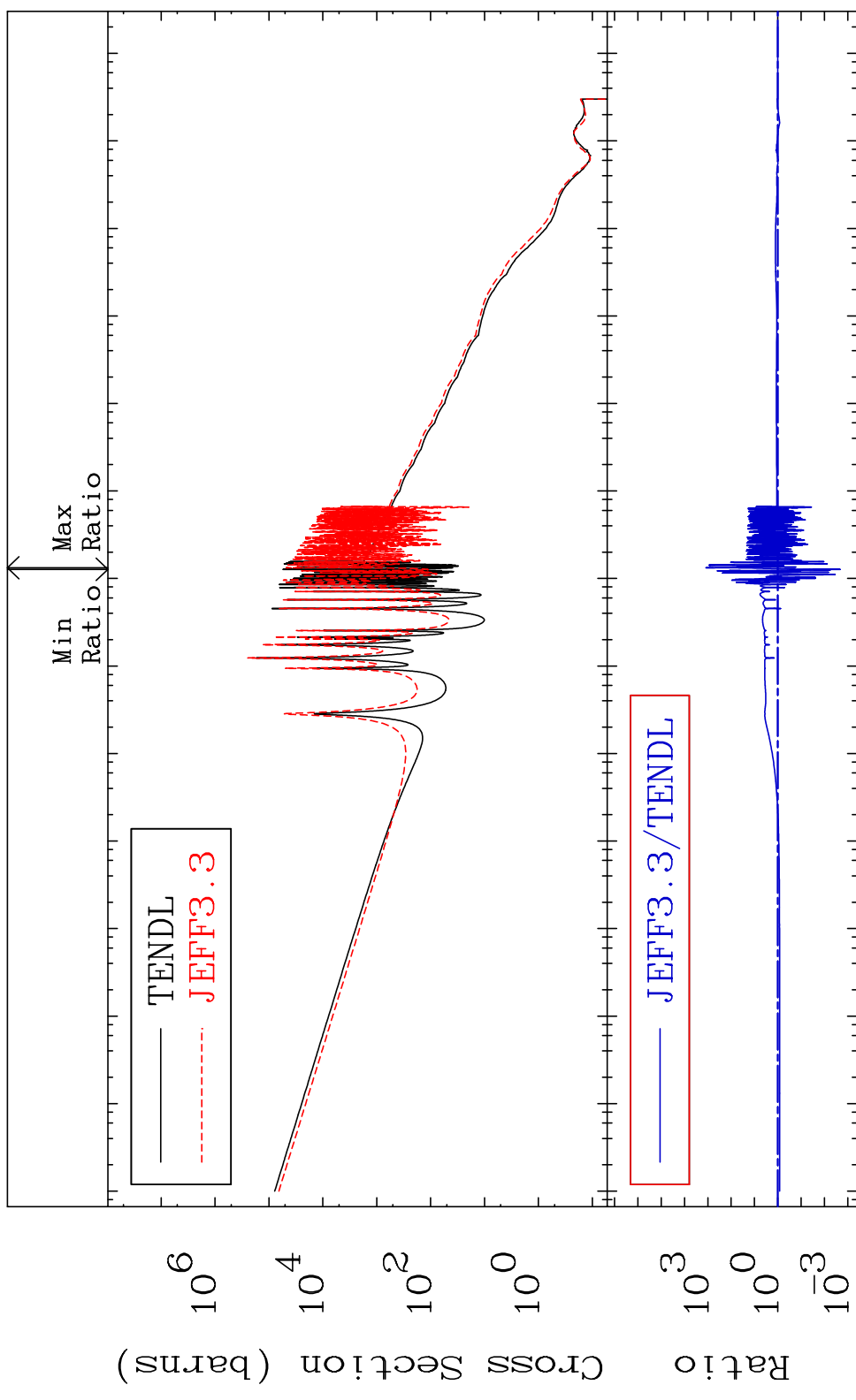
70 Incident Energy (eV) 69-Tm-170

MAT 6928 Kerma fission (mt18 or mt19-20-21-38) 69-Tm-170  
 Cross Section -65.28 To 9999. %



MAT 6928

Kerma capture (mt102) 69-Tm-170  
Cross Section -99.79 To 9999. %



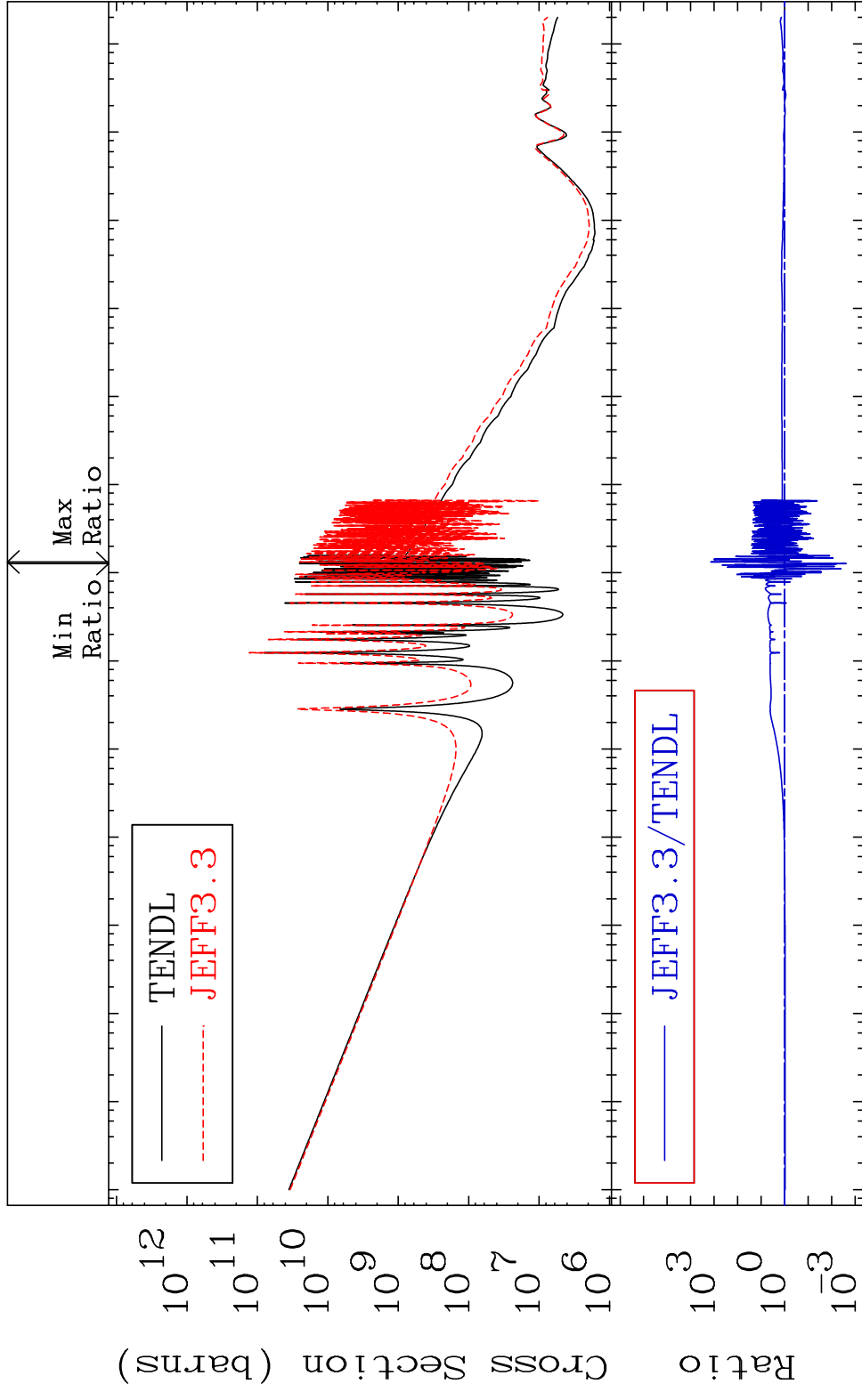
72

Incident Energy (eV)

69-Tm-170

MAT 6928

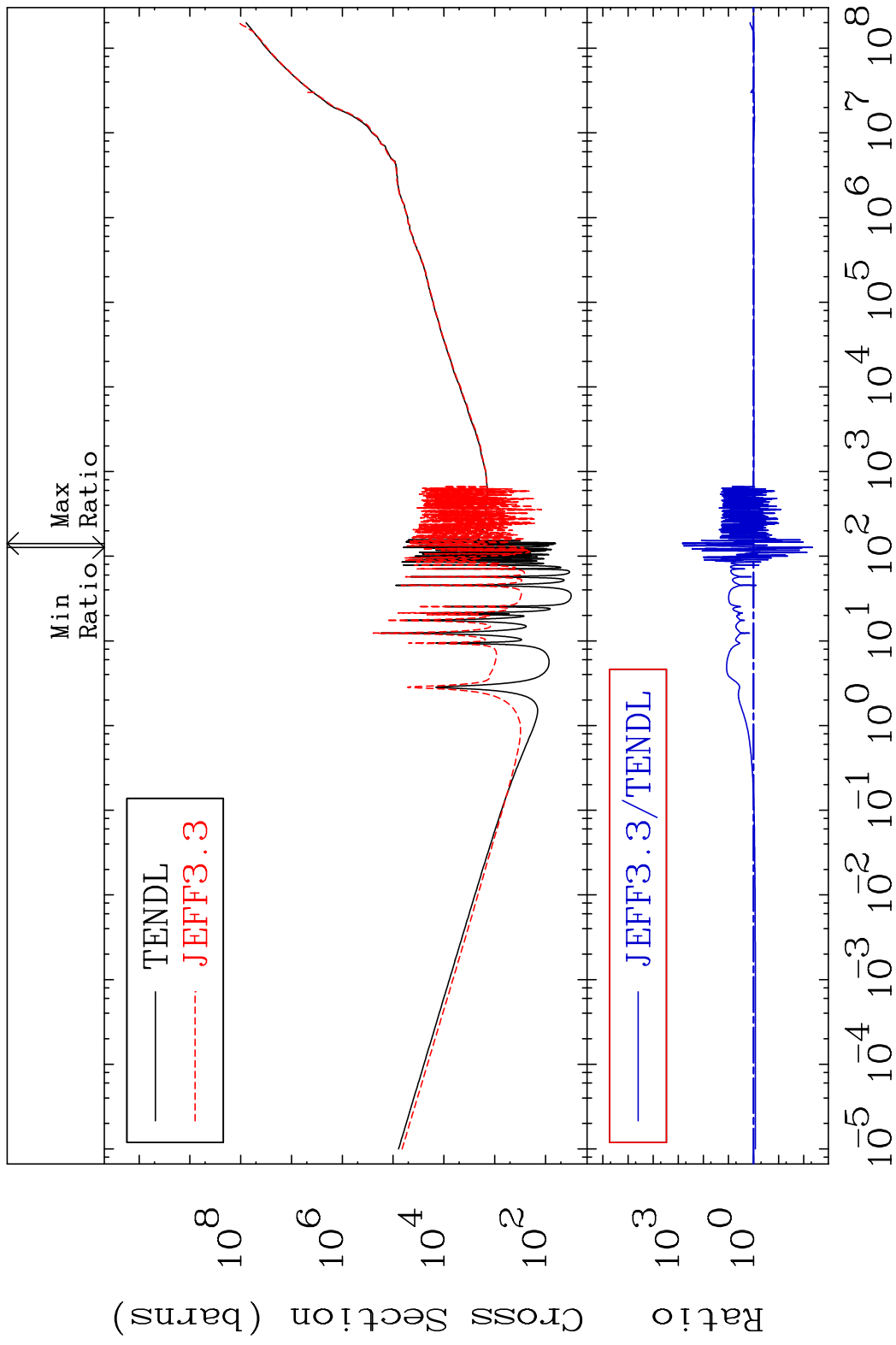
Total photon (eV-barns) 69-Tm-170  
Cross Section -99.76 To 9999. %



73

Incident Energy (eV) 69-Tm-170

MAT 6928 Total kinematic kerma (high limit) 69-Tm-170  
 Cross Section -99.55 To 9999. %

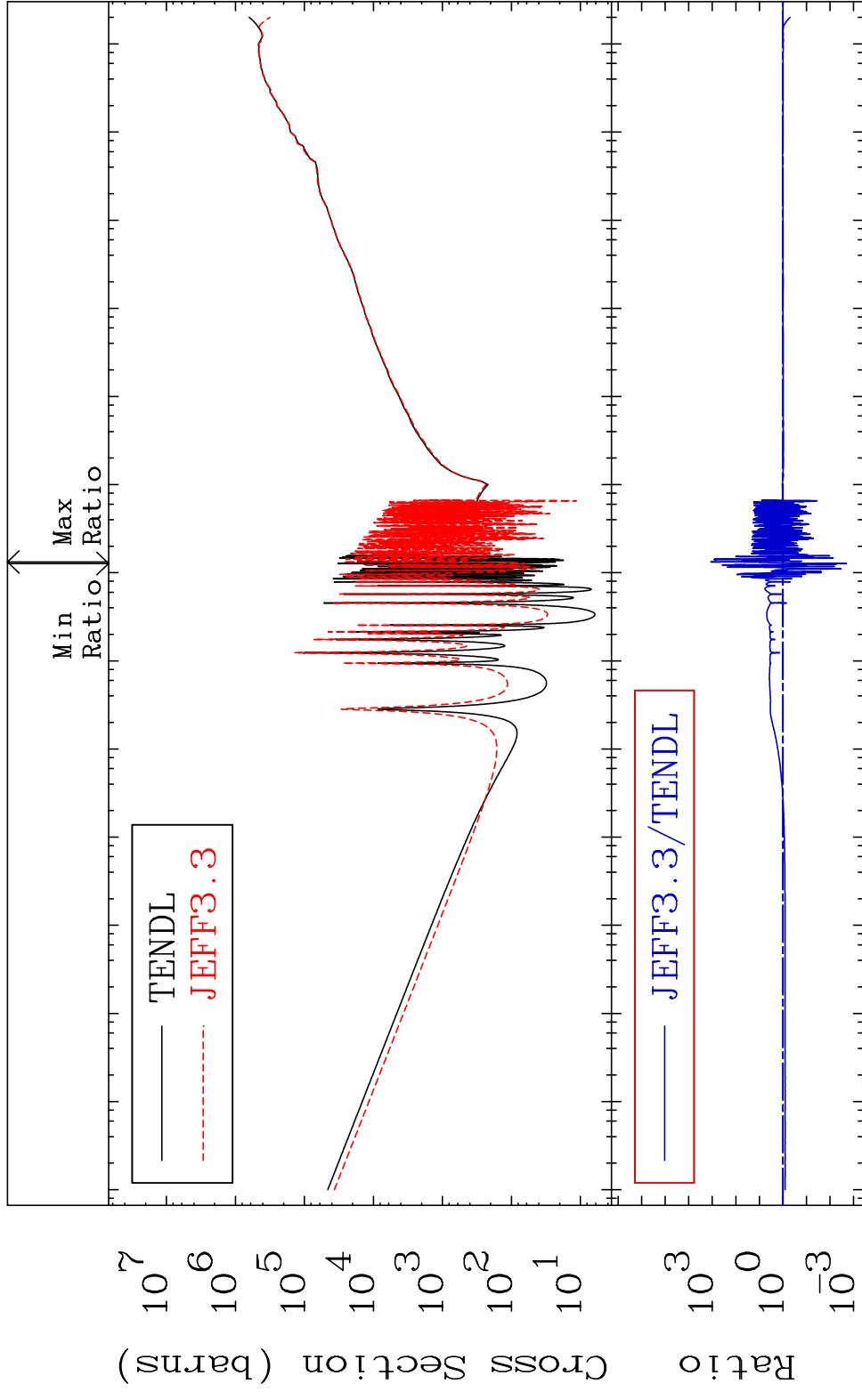


MAT 6928

Dpa total (eV-barns)

69-Tm-170

Cross Section -99.80 To 9999. %



75

Incident Energy (eV)

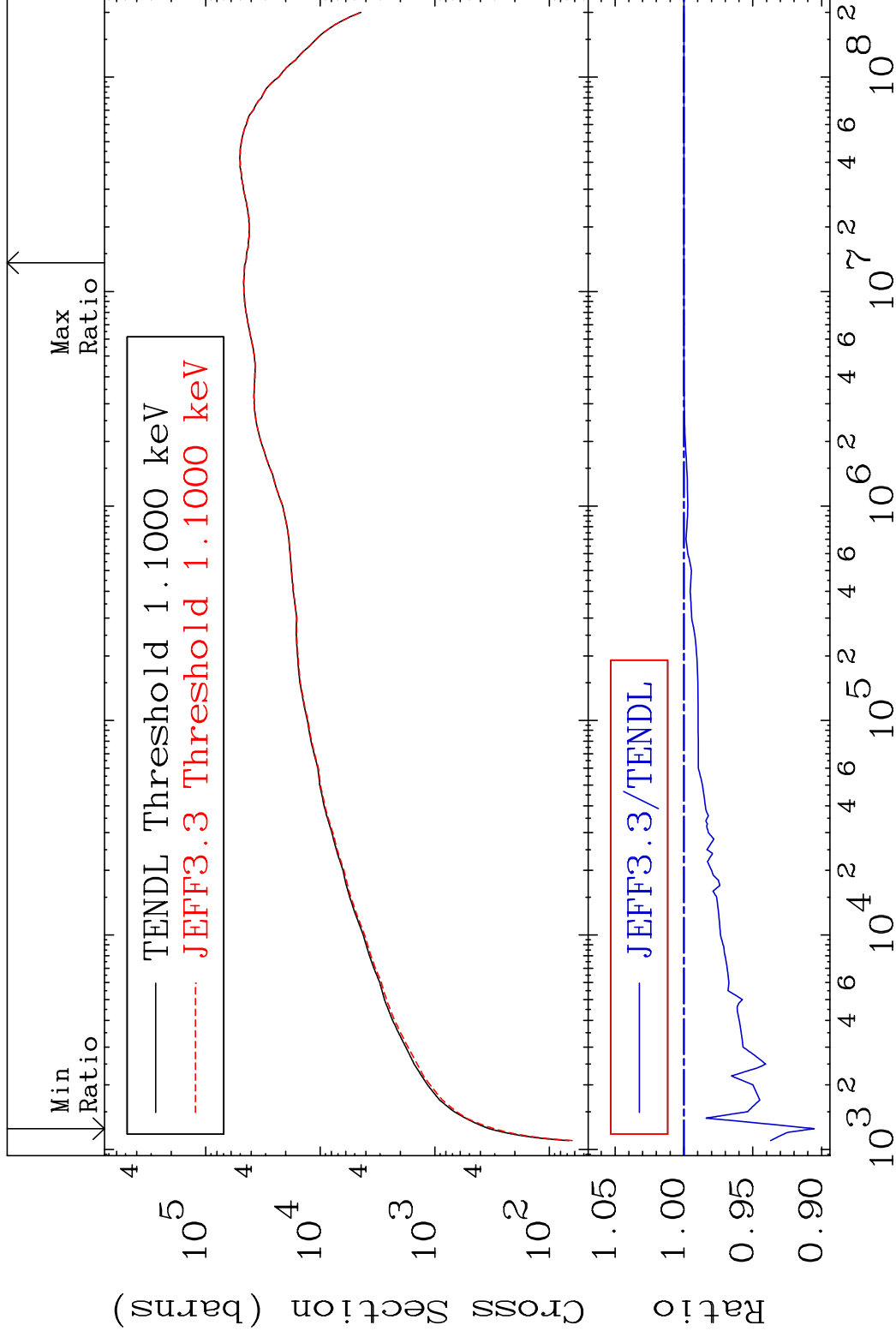
69-Tm-170

MAT 6928

Dpa elastic (mt2)

69-Tm-170

Cross Section -9.454 To 0.020 %



76

Incident Energy (eV)

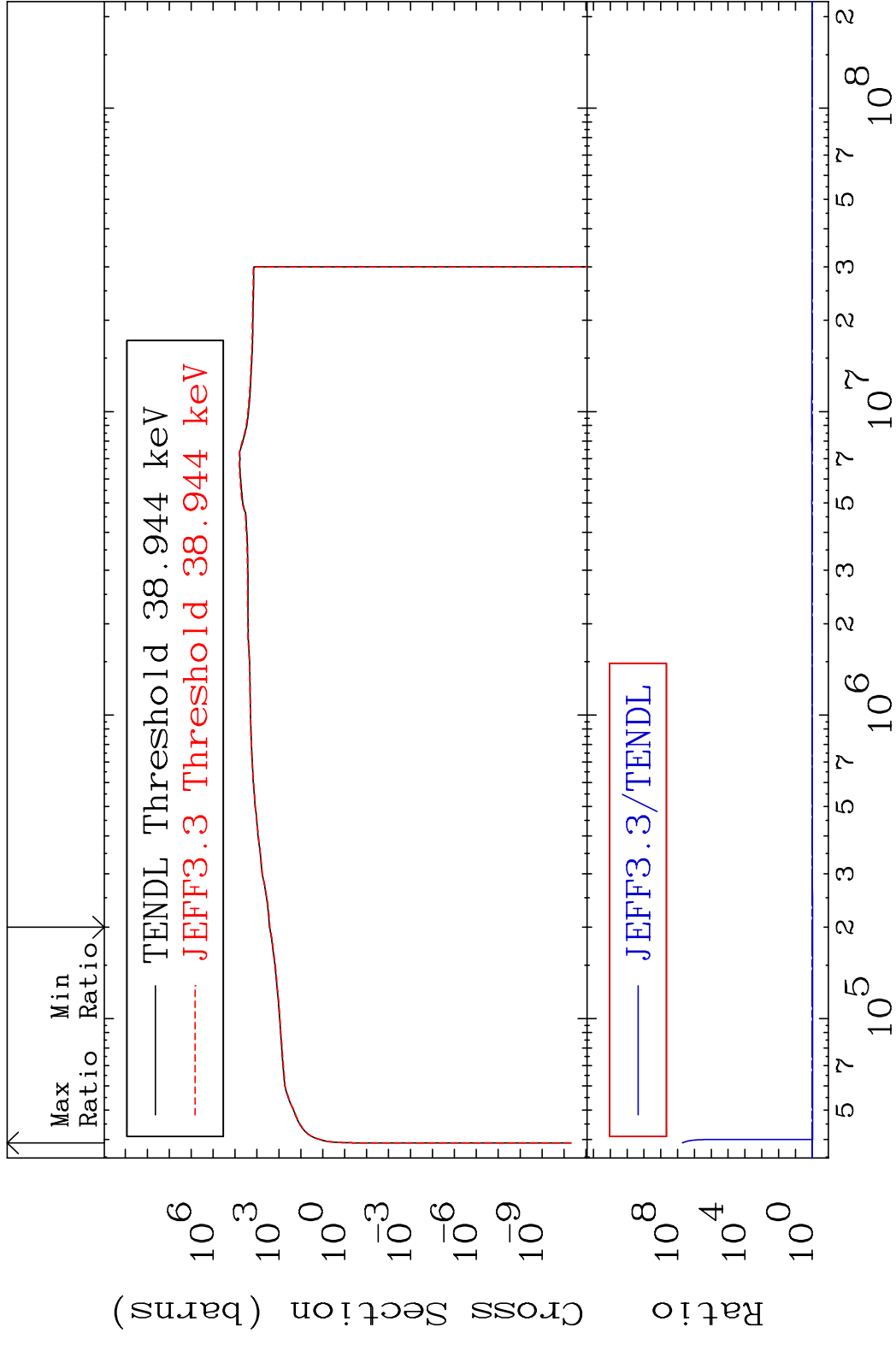
69-Tm-170

MAT 6928

Dpa inelastic (mt51-91)

69-Tm-170

Cross Section -4.176 To 9999. %

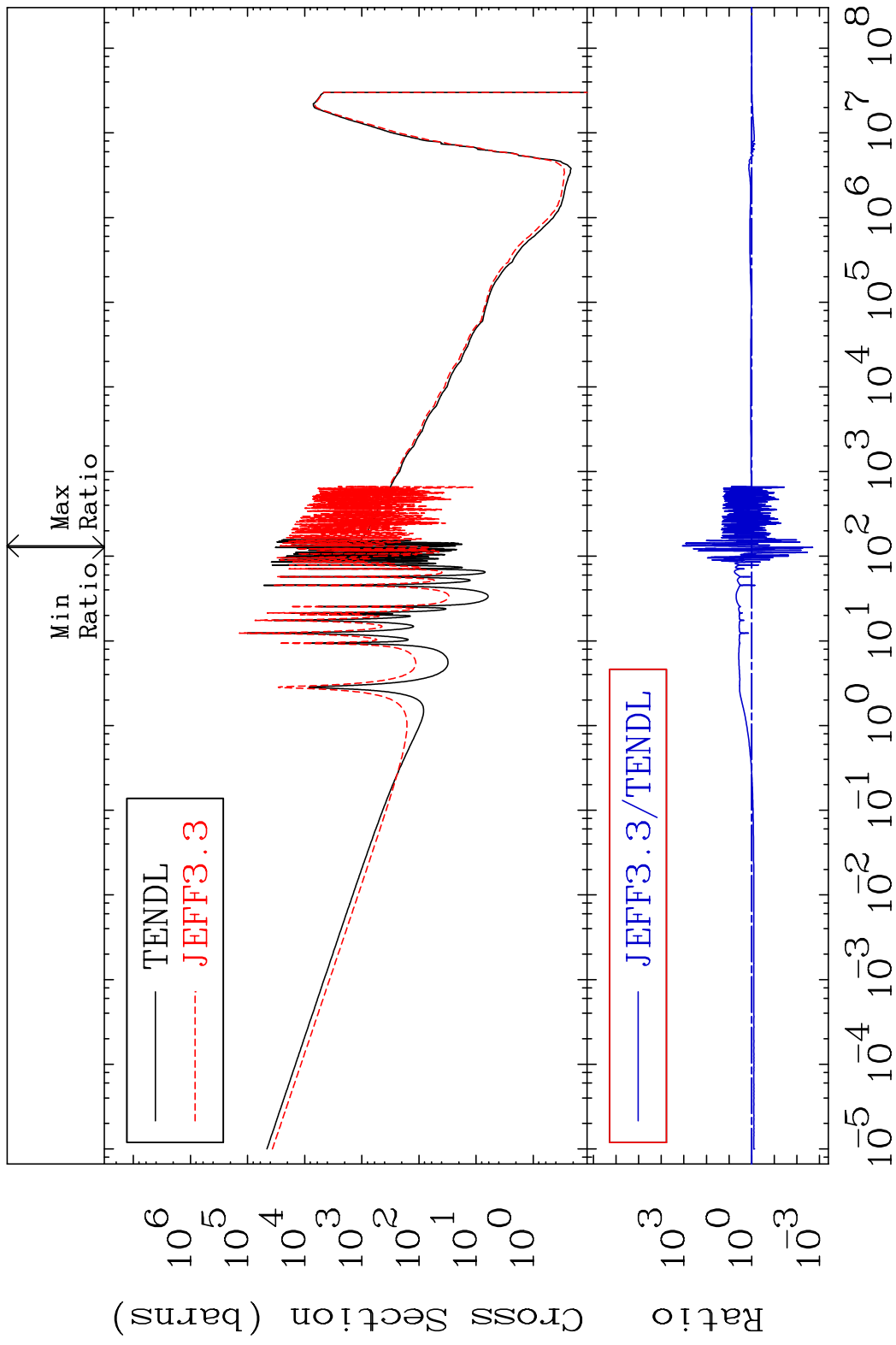


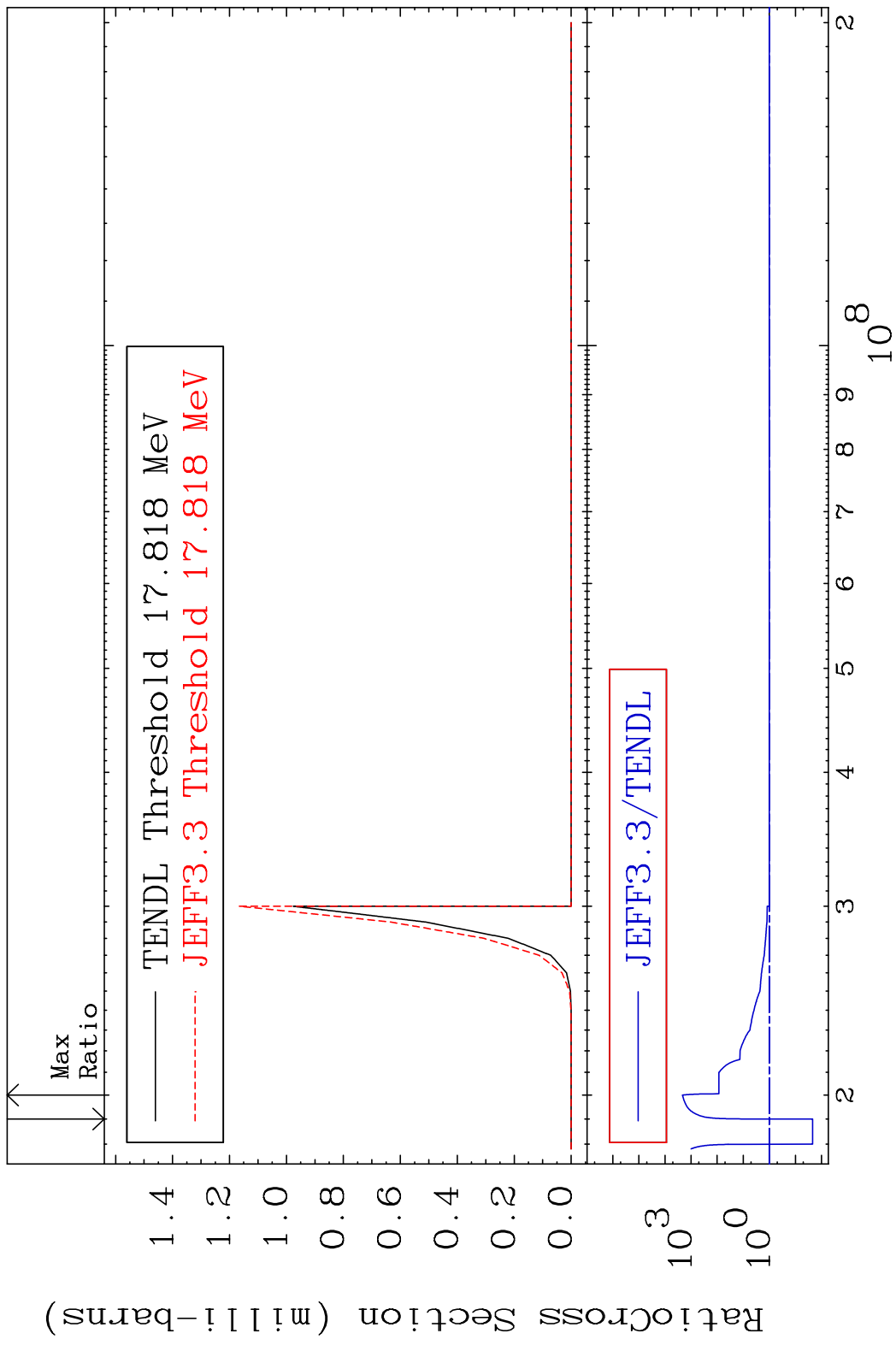
77

Incident Energy (eV)

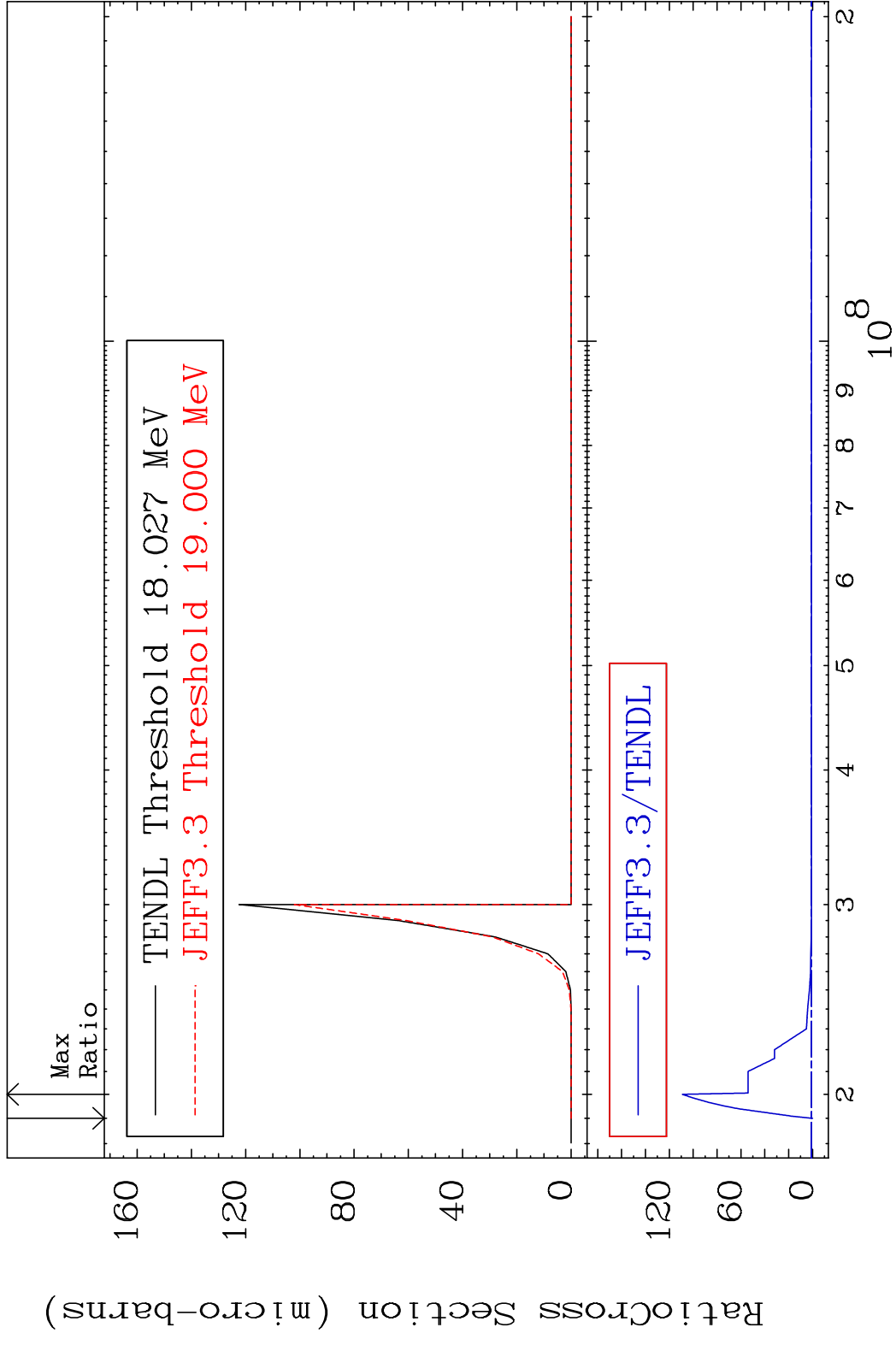
69-Tm-170

MAT 6928 Dpa disappearance (mt102 -120) 69-Tm-170  
 Cross Section -99.80 To 9999. %

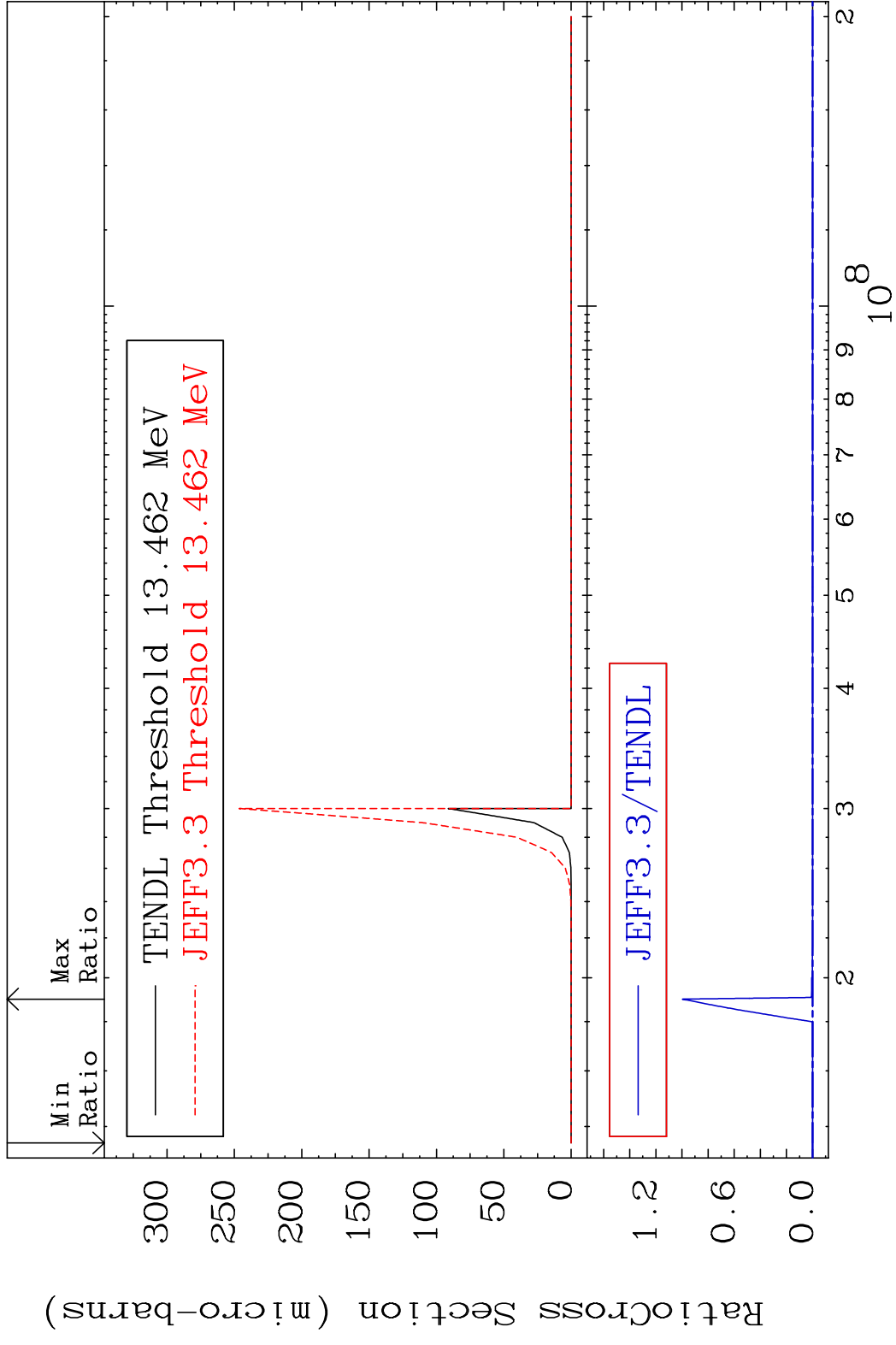


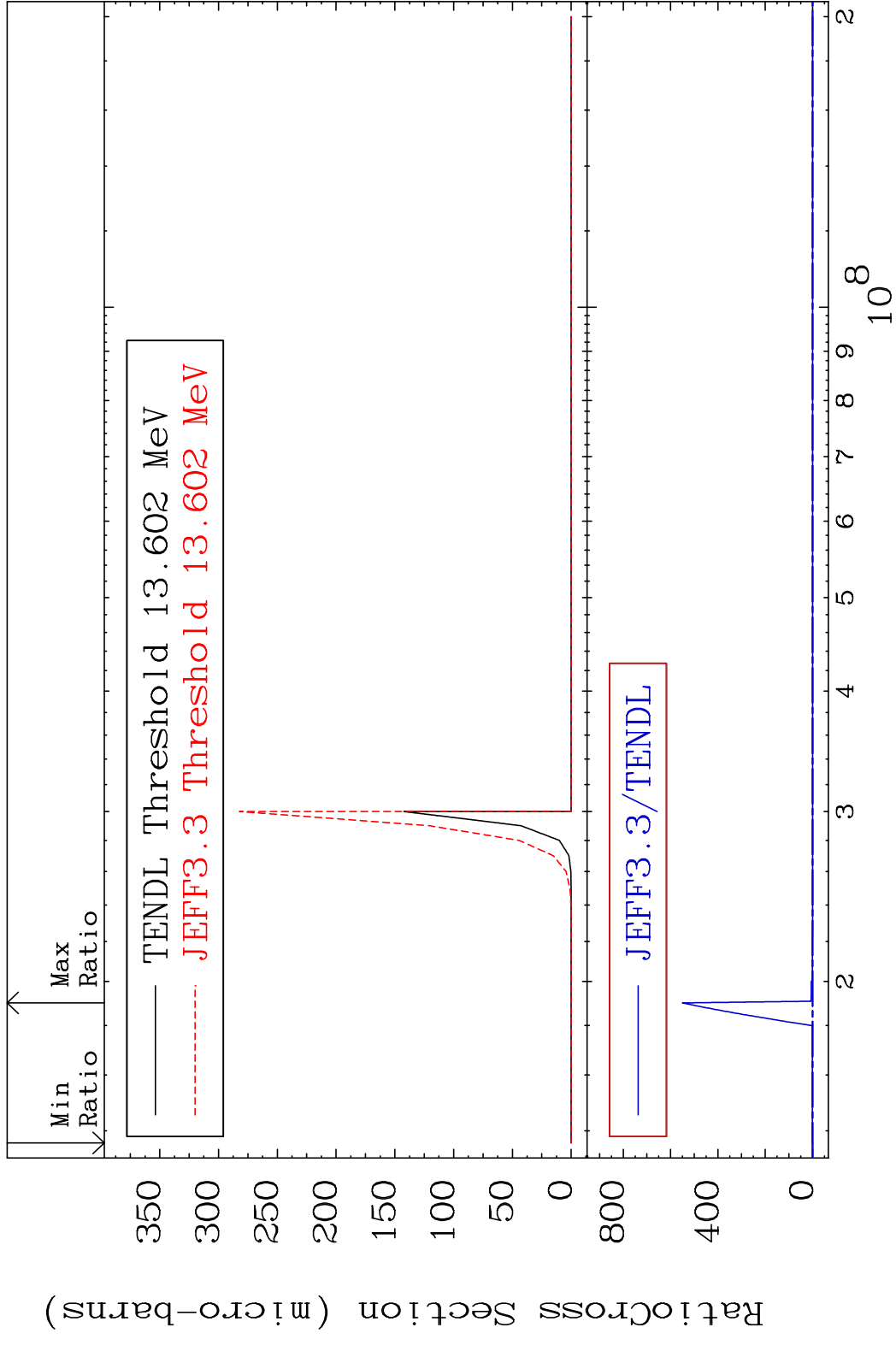


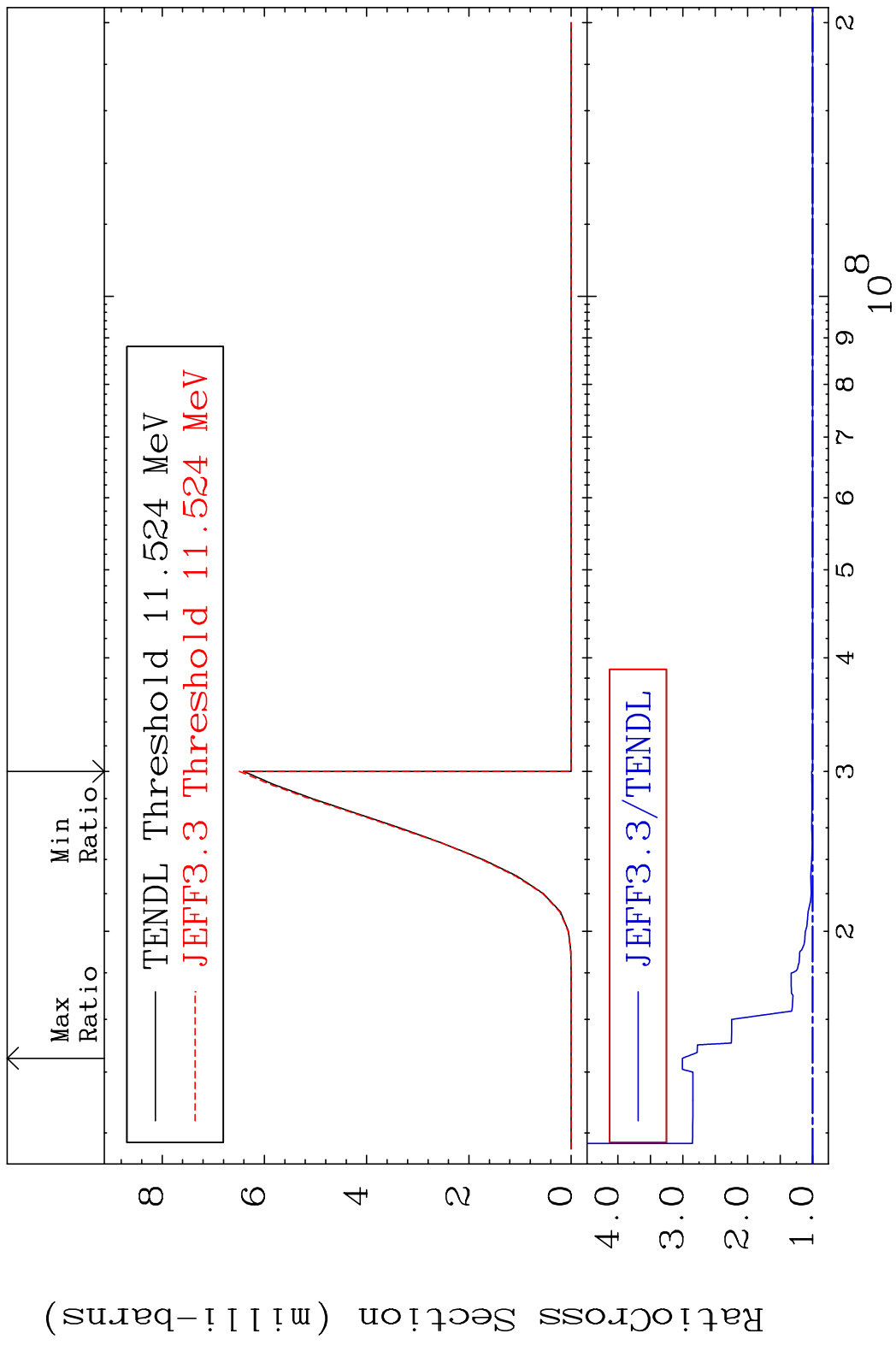
MAT 6928 (n,2n) d:68-Er-167m3 69-Tm-170  
 Radionuclide Production Cross Section 100.00 d:to 9999. %

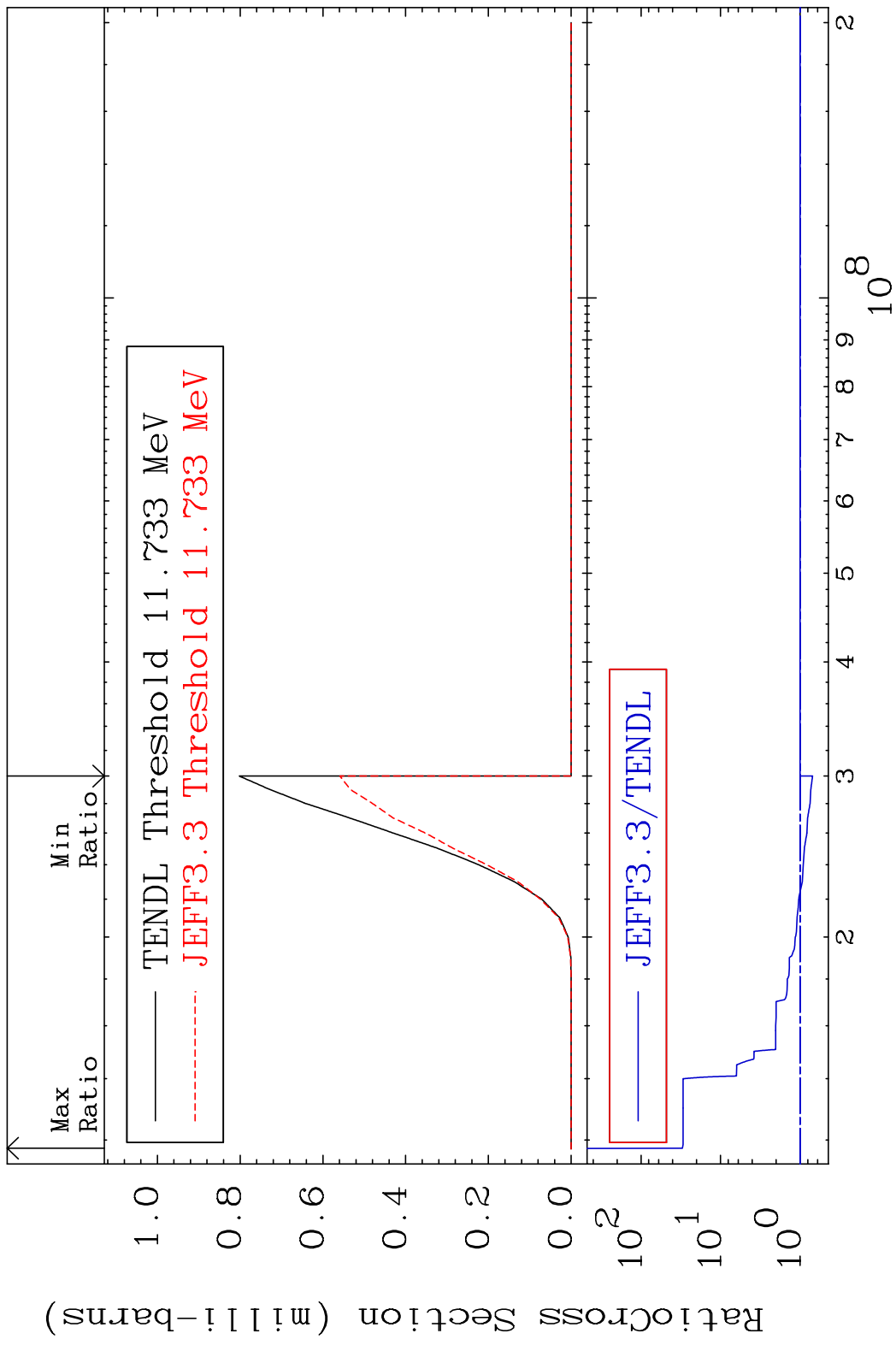


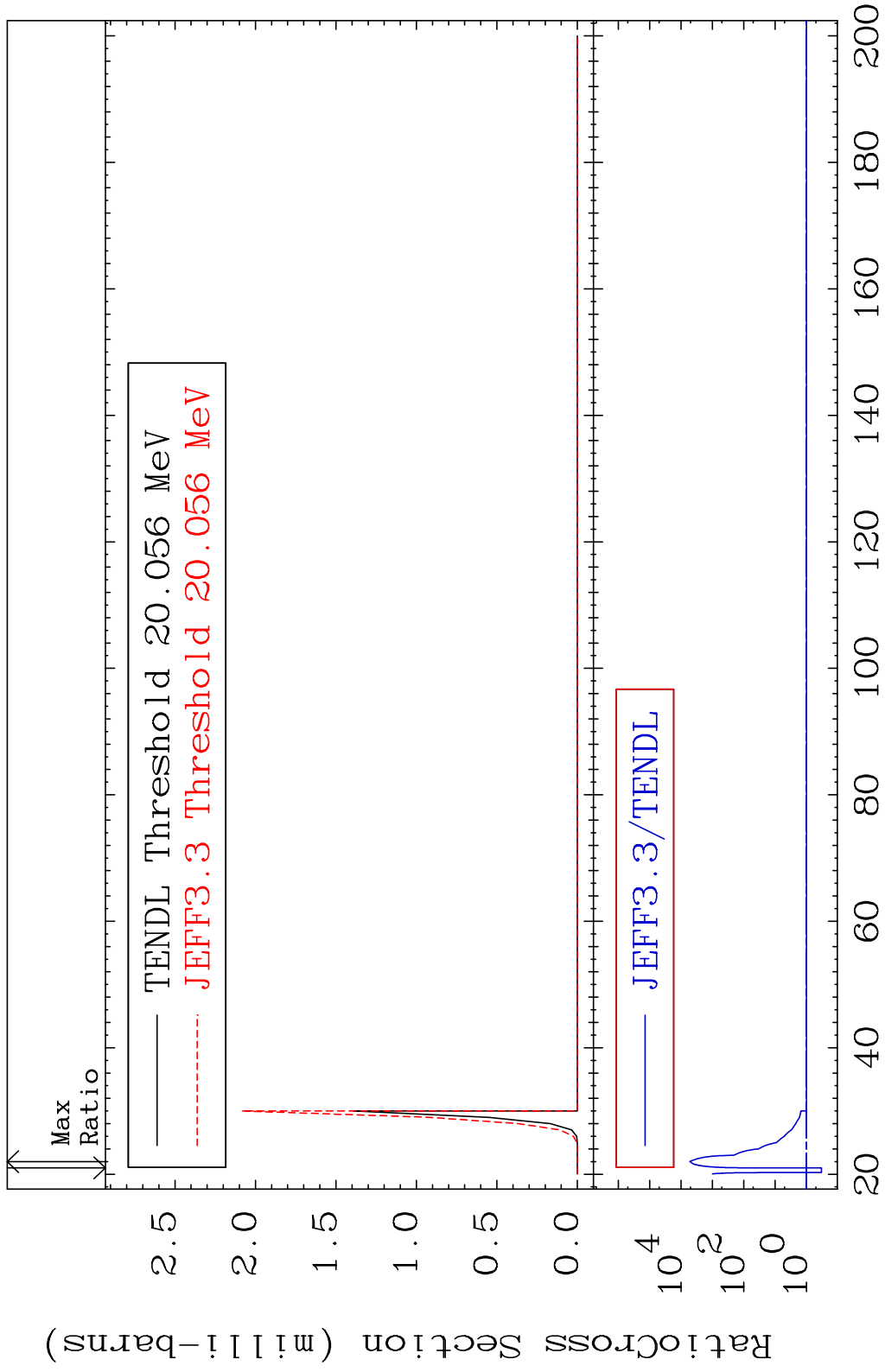
80 Incident Energy (eV) 69-Tm-170

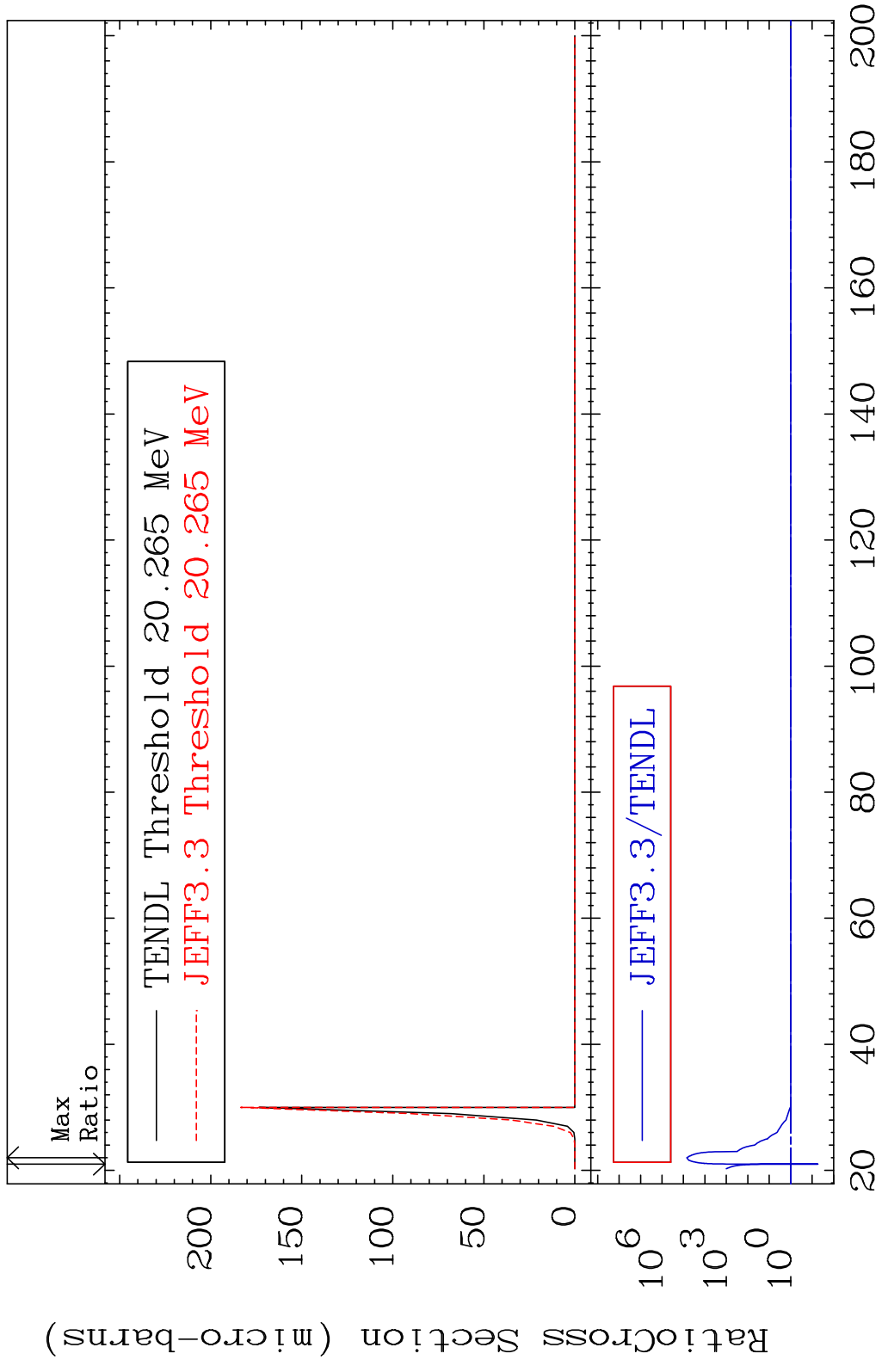


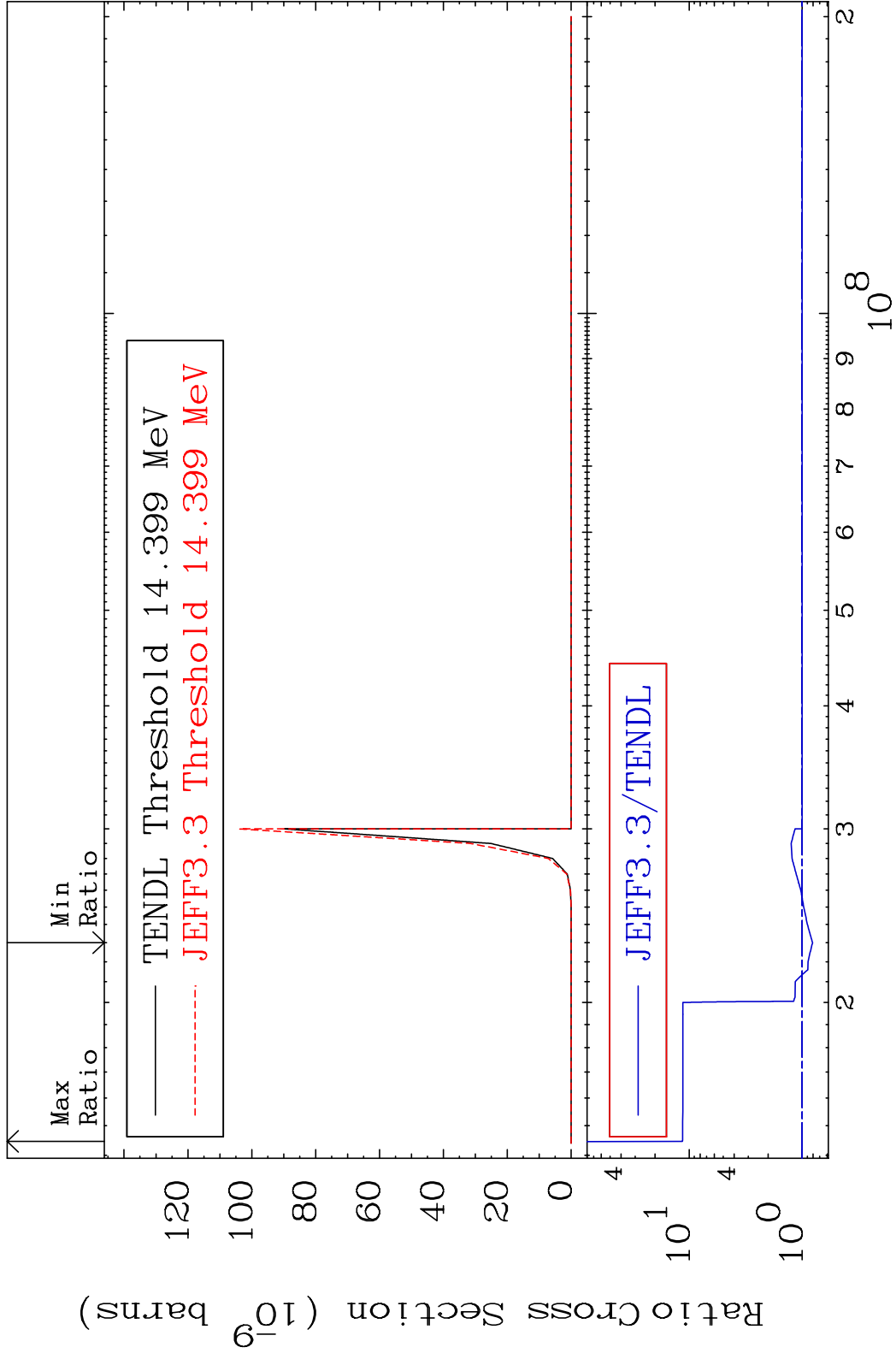


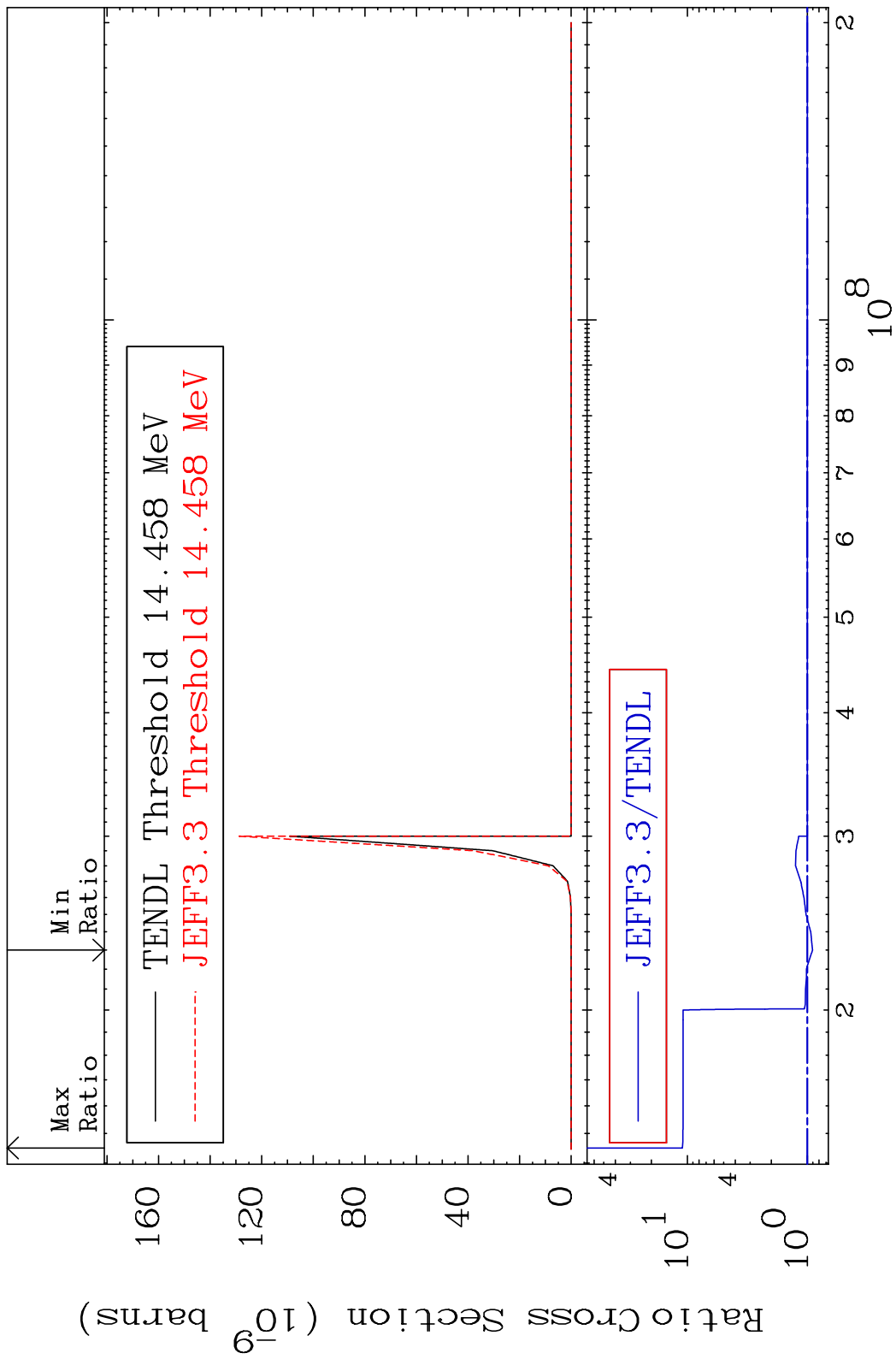


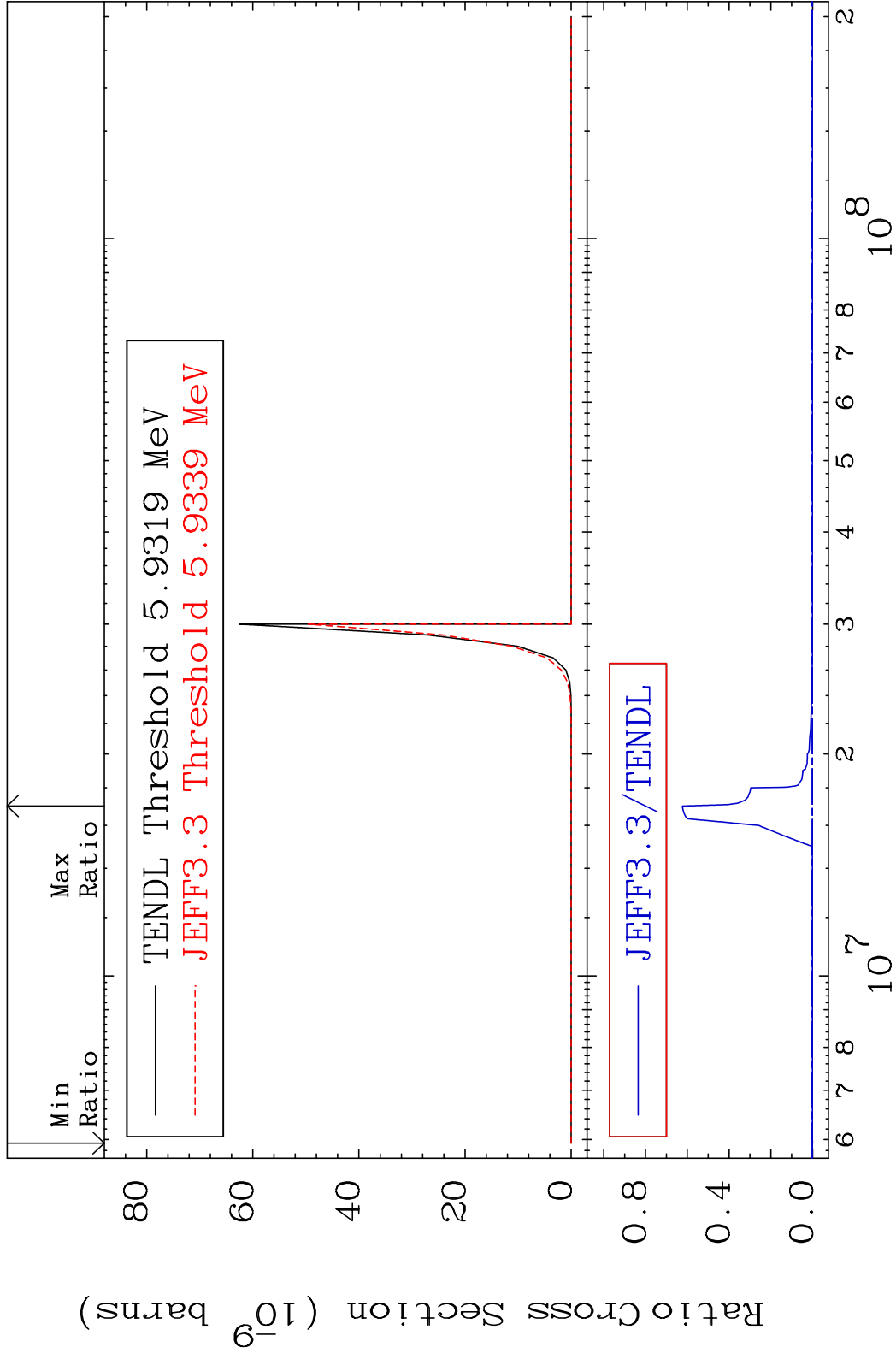




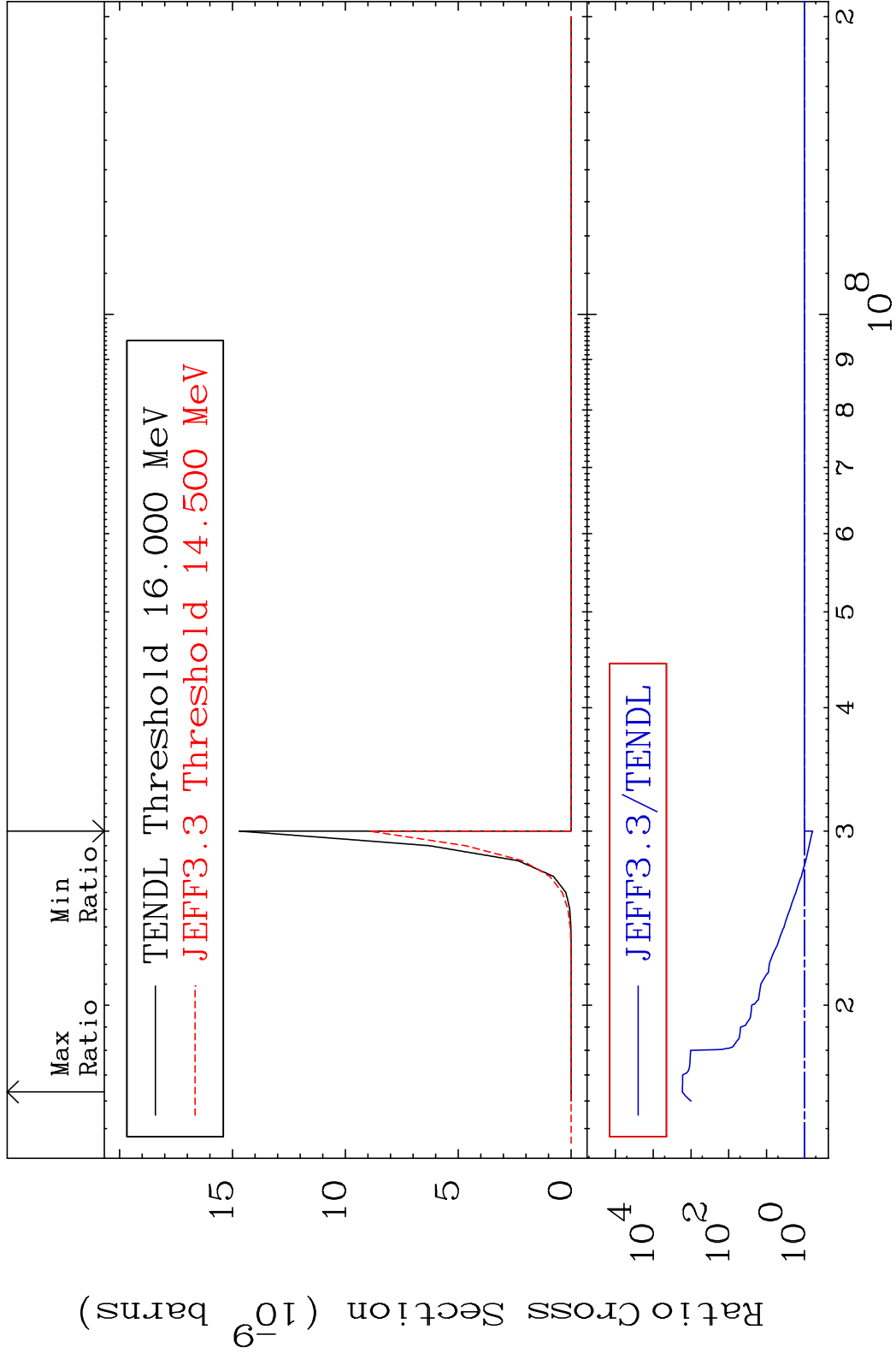




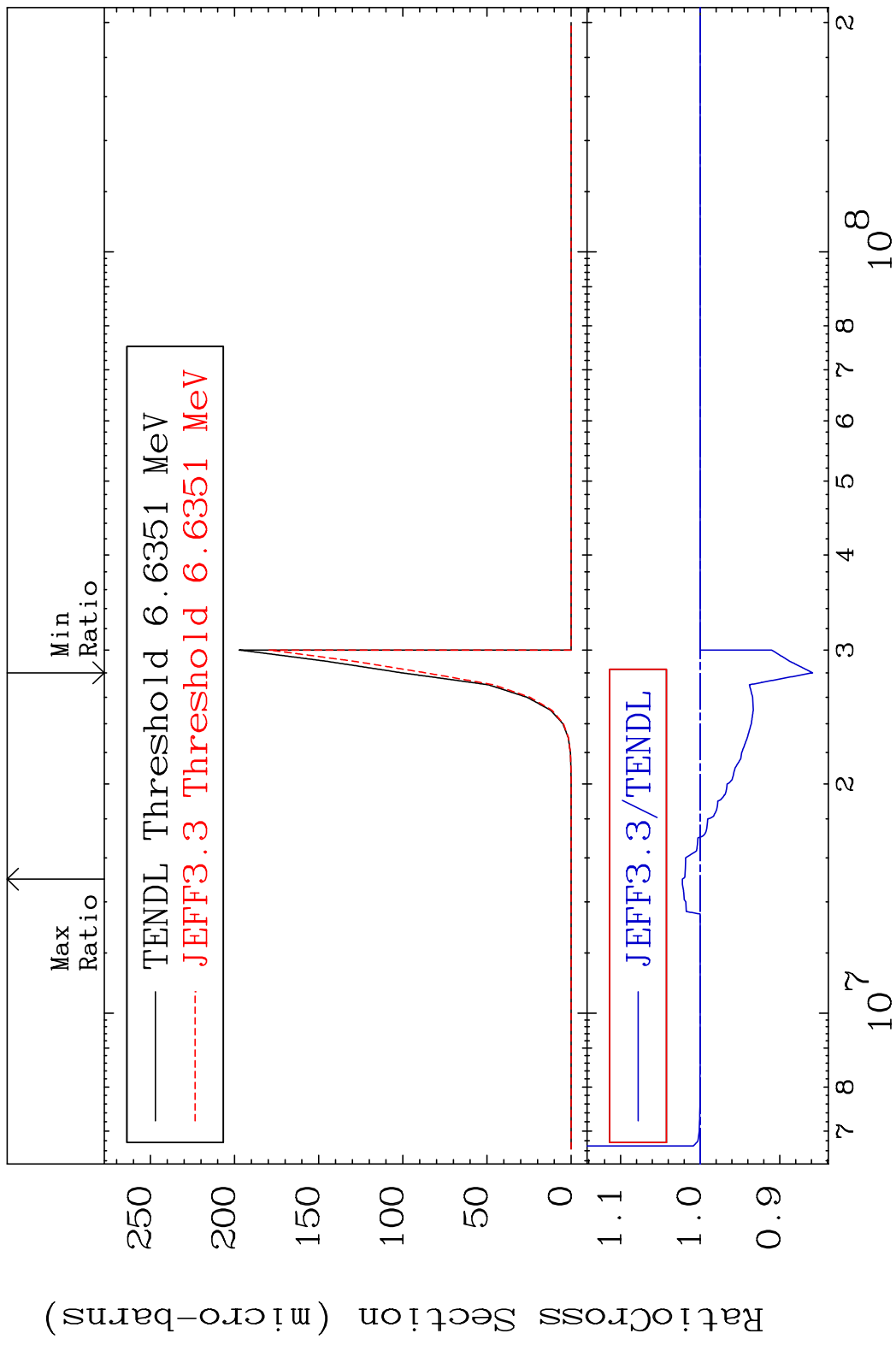




MAT 6928 (n, n') p α:66-Dy-165m2 69-Tm-170  
 Radionuclide Production Cross Section 39.5 d to 9999. %



90 Incident Energy (eV) 69-Tm-170



MAT 6928 (n, He-3) : 67-Ho-168m1 69-Tm-170  
 Radionuclide Production Cross-Section 10.08 %

