

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

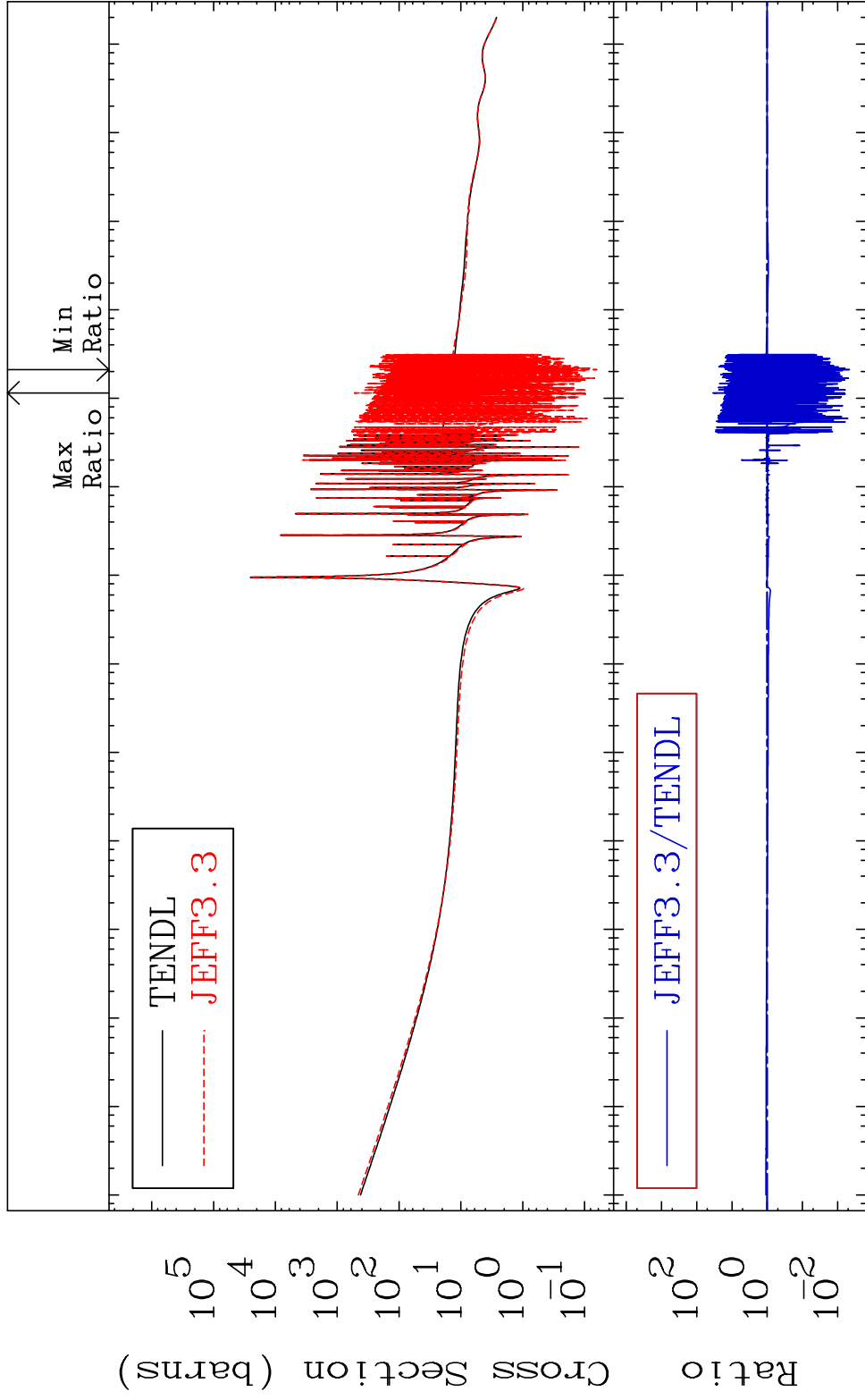
Press Mouse Button to Start

MAT 6849

Total

68-Er-170

Cross Section -99.53 To 3315. %



1

Incident Energy (eV)

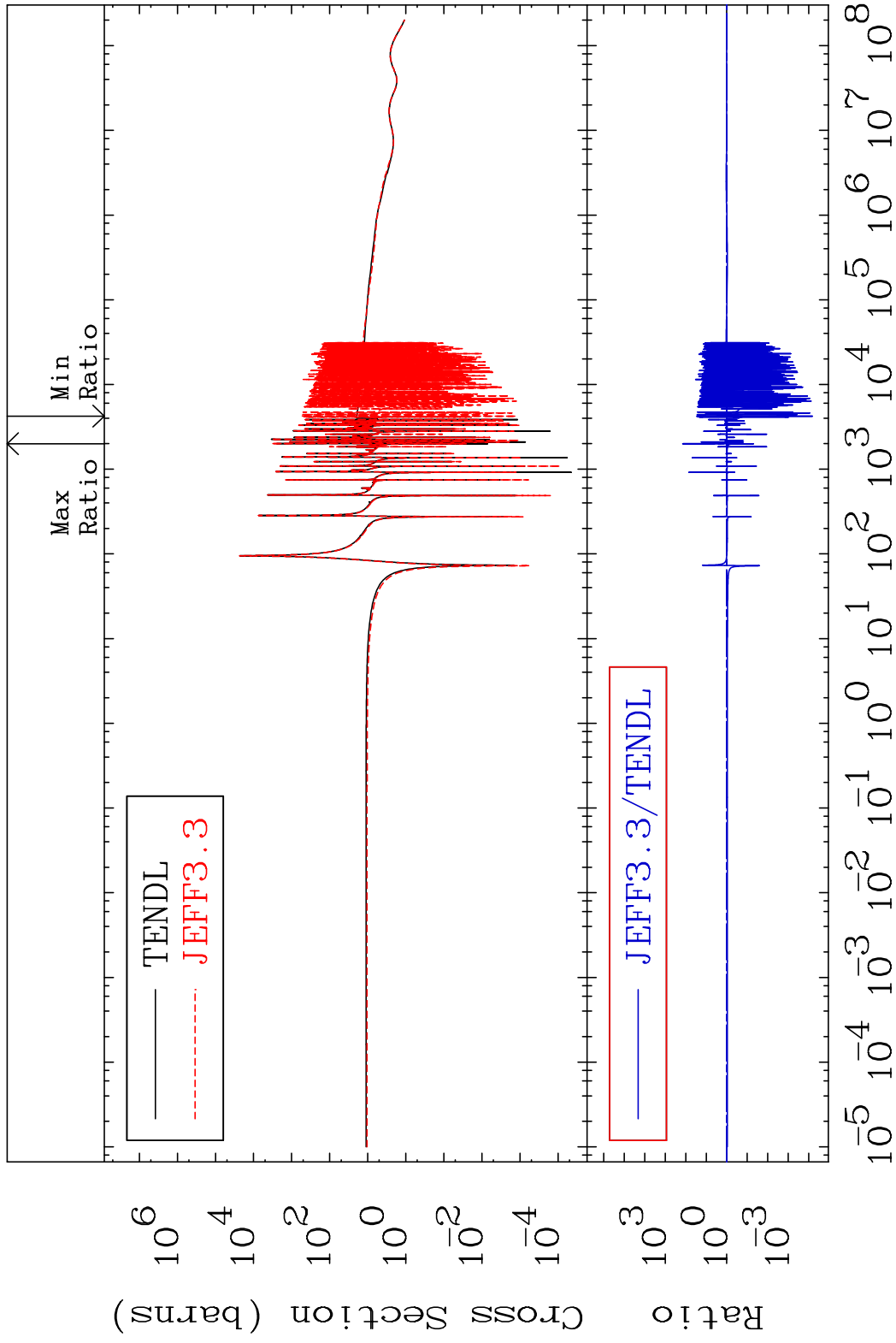
68-Er-170

MAT 6849

Elastic

68-Er-170

Cross Section -99.99 To 9999. %

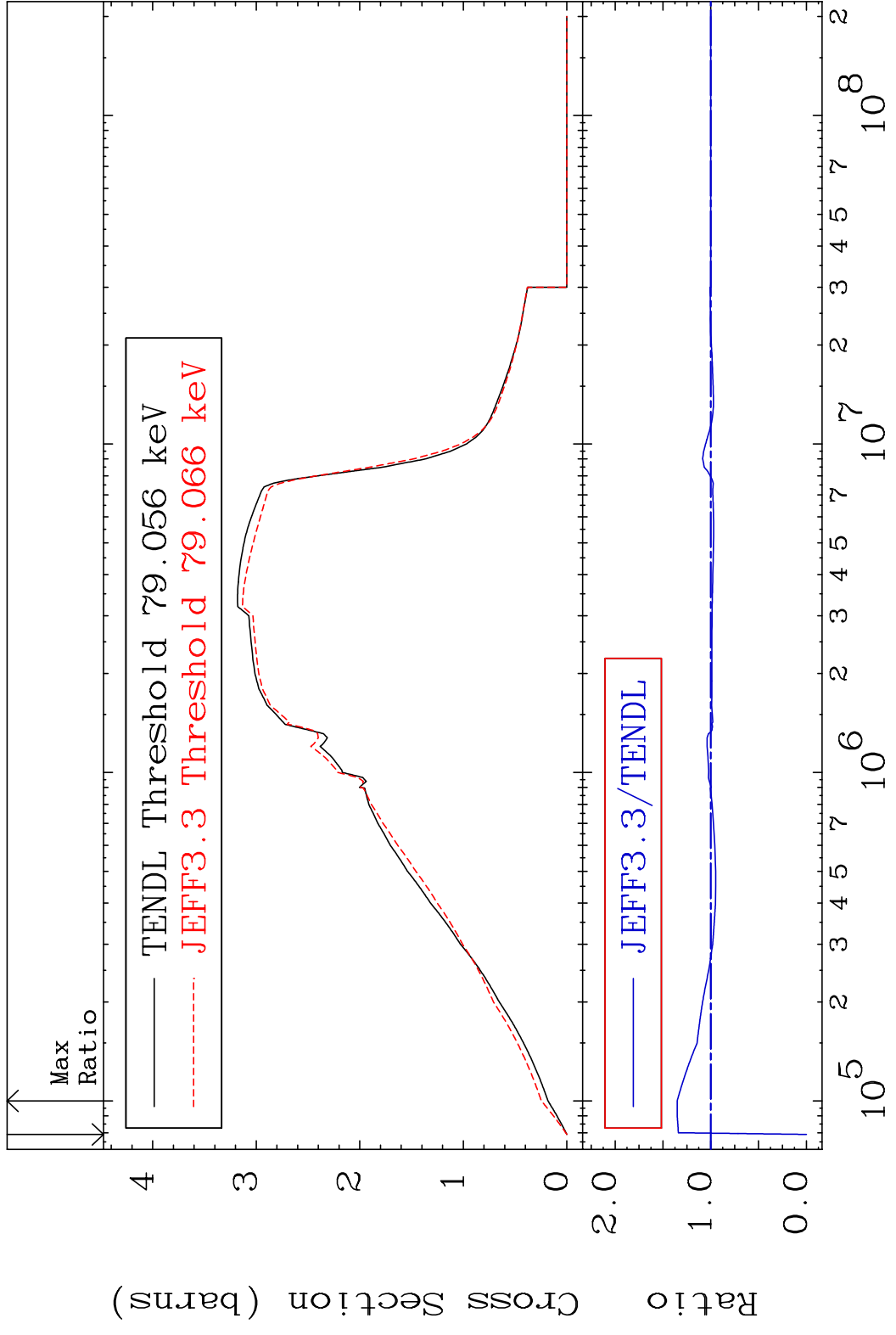


2

Incident Energy (eV)

68-Er-170

MAT 6849 Inelastic 68-Er-170
 Cross Section -100.0 To 35.11 %



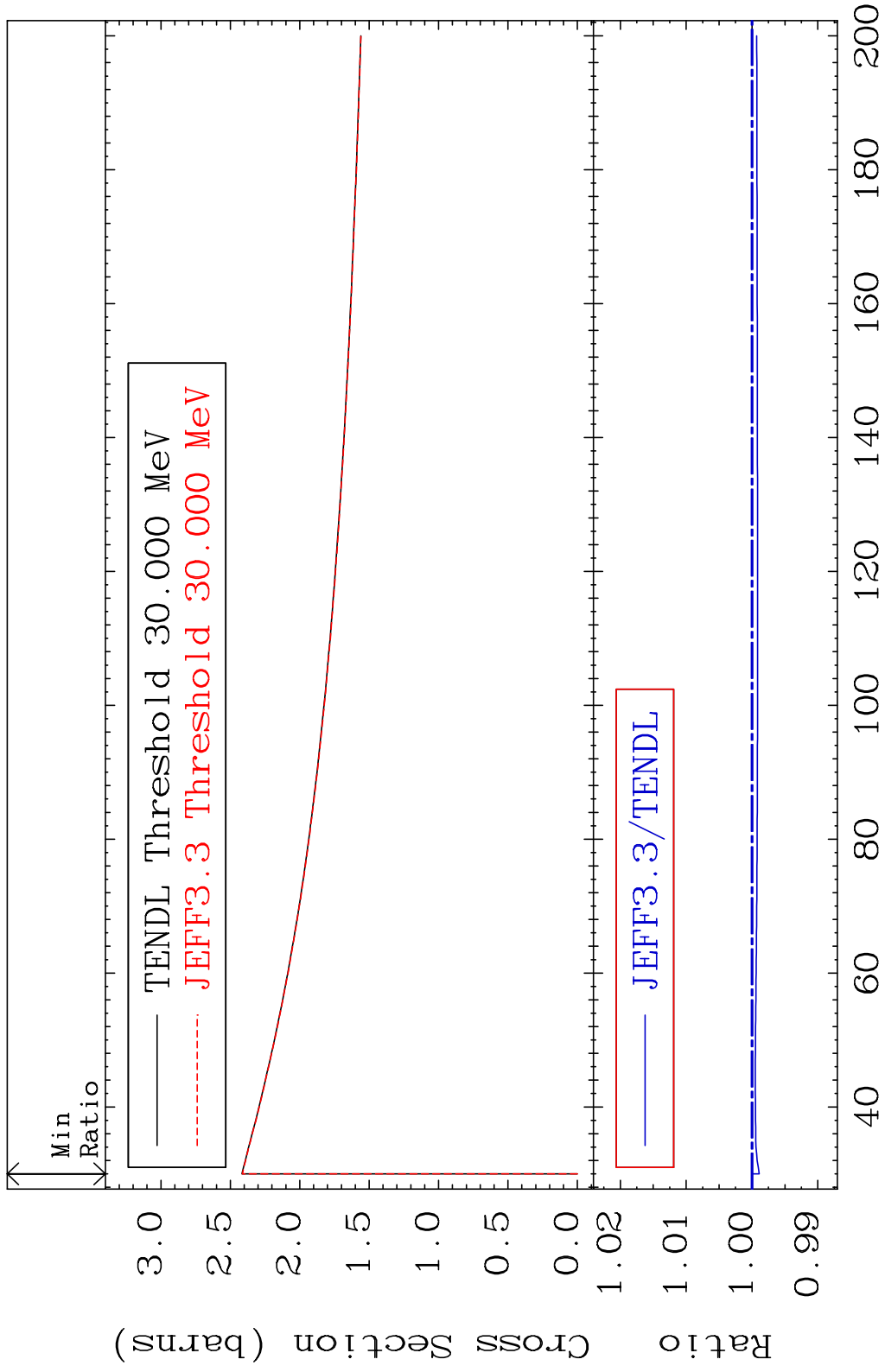
3 Incident Energy (eV) 68-Er-170

MAT 6849

(n, remainder)

68-Er-170

Cross Section -0.108 To 0.000 %

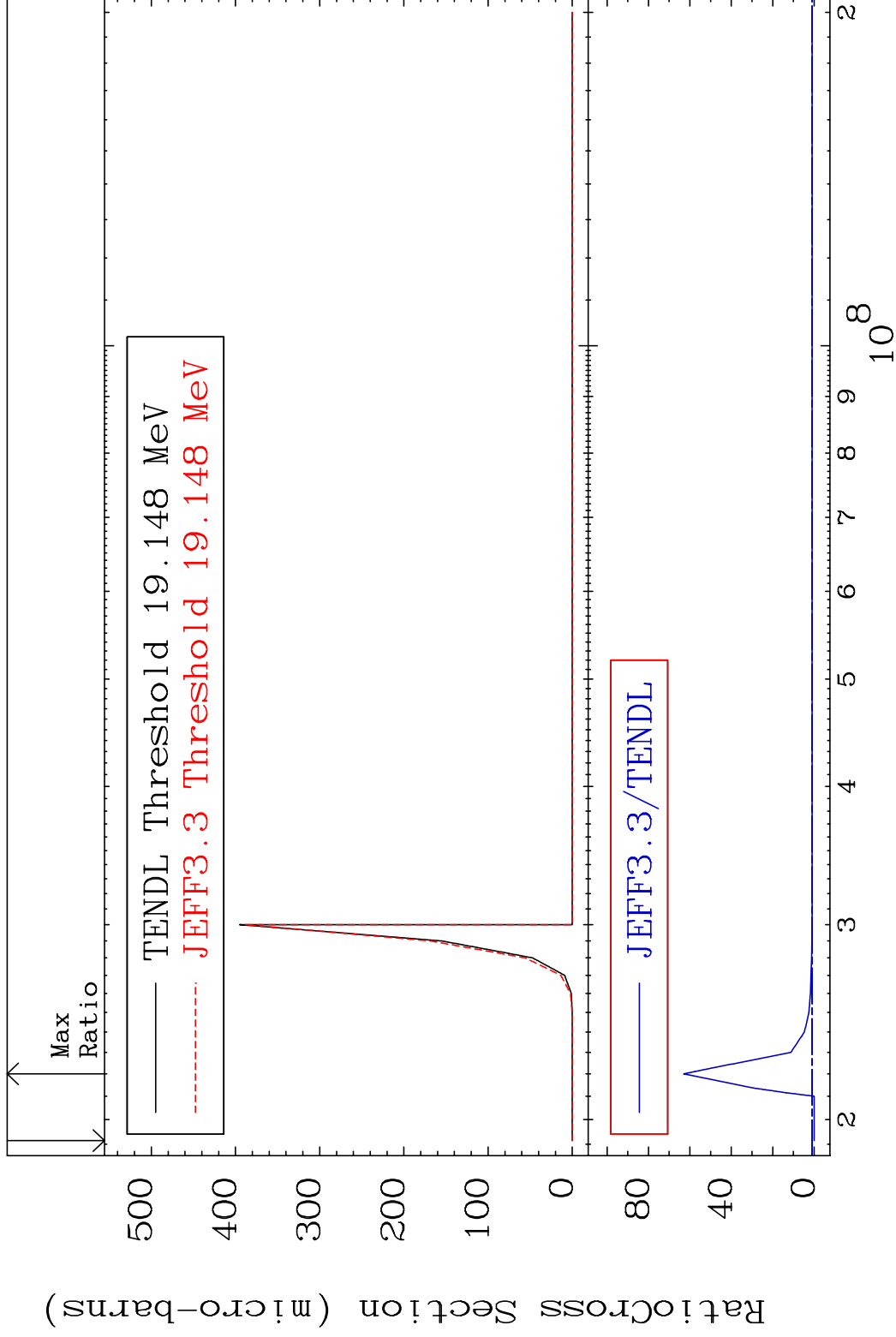


MAT 6849

(n,2n) d

68-Er-170

Cross Section -100.0 To 6200. %

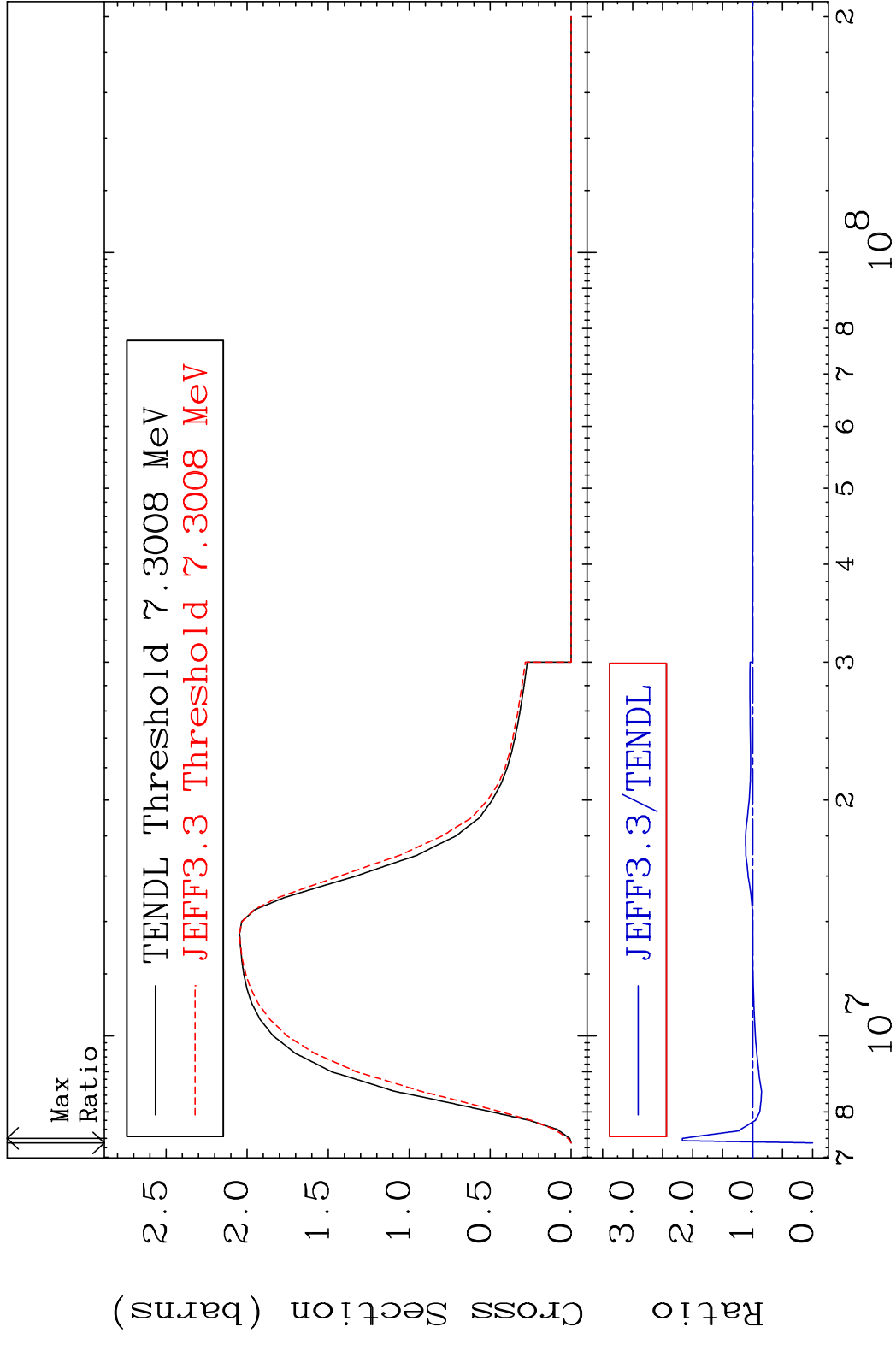


5

Incident Energy (eV)

68-Er-170

MAT 6849 (n,2n) 68-Er-170
 Cross Section -100.0 To 117.0 %

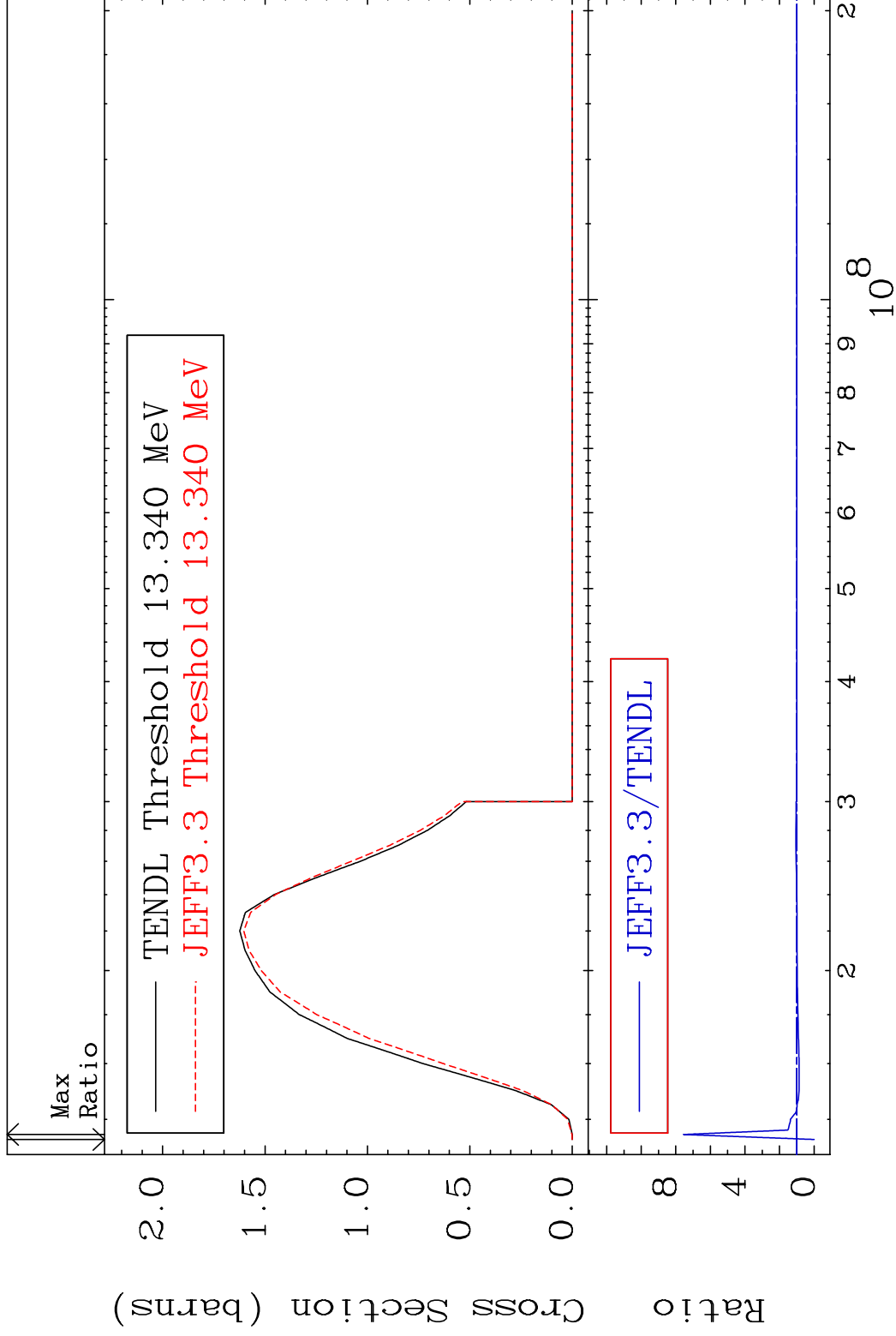


MAT 6849

(n,3n)

68-Er-170

Cross Section -100.0 To 654.6 %



7

Incident Energy (eV)

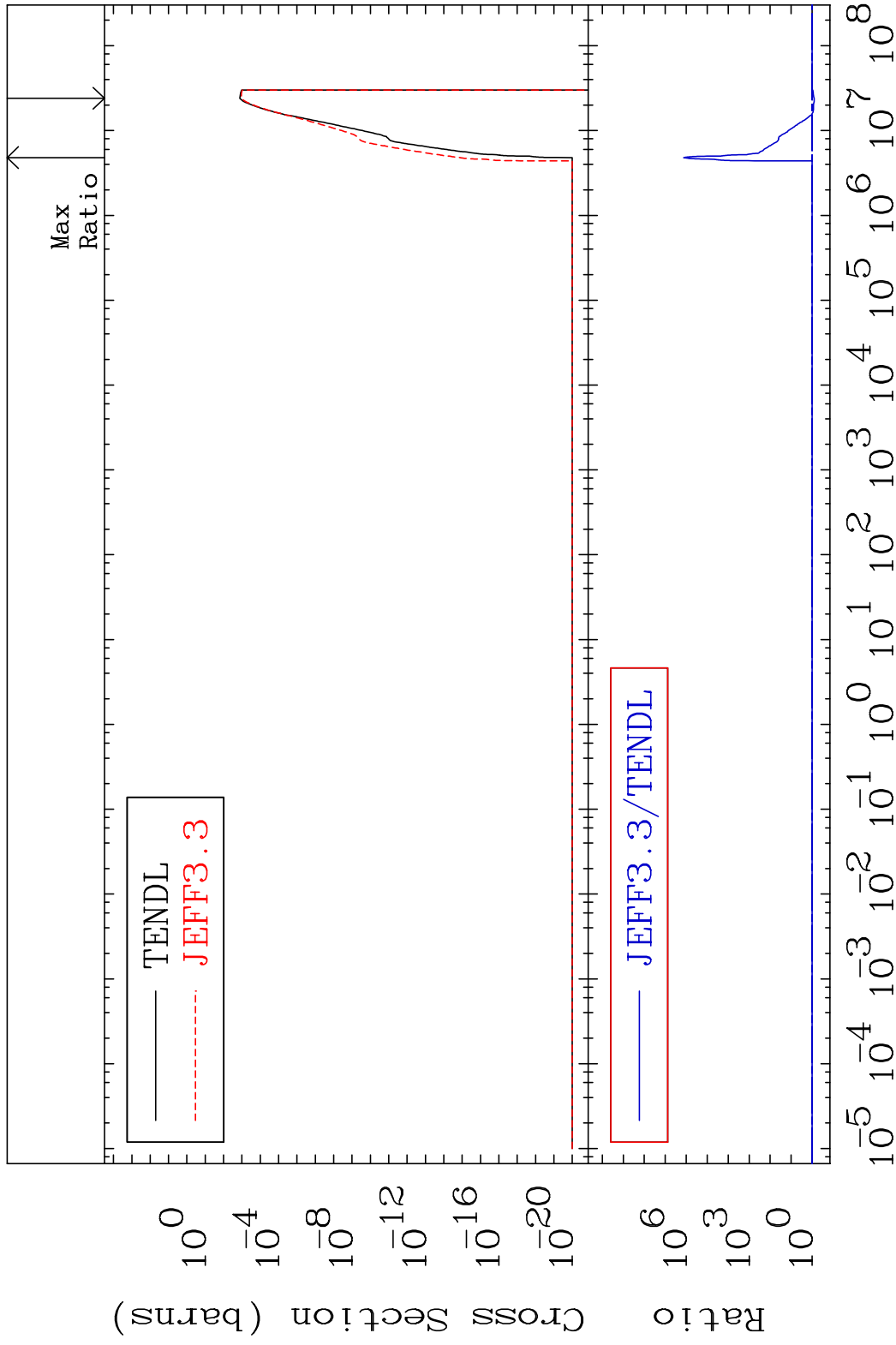
68-Er-170

MAT 6849

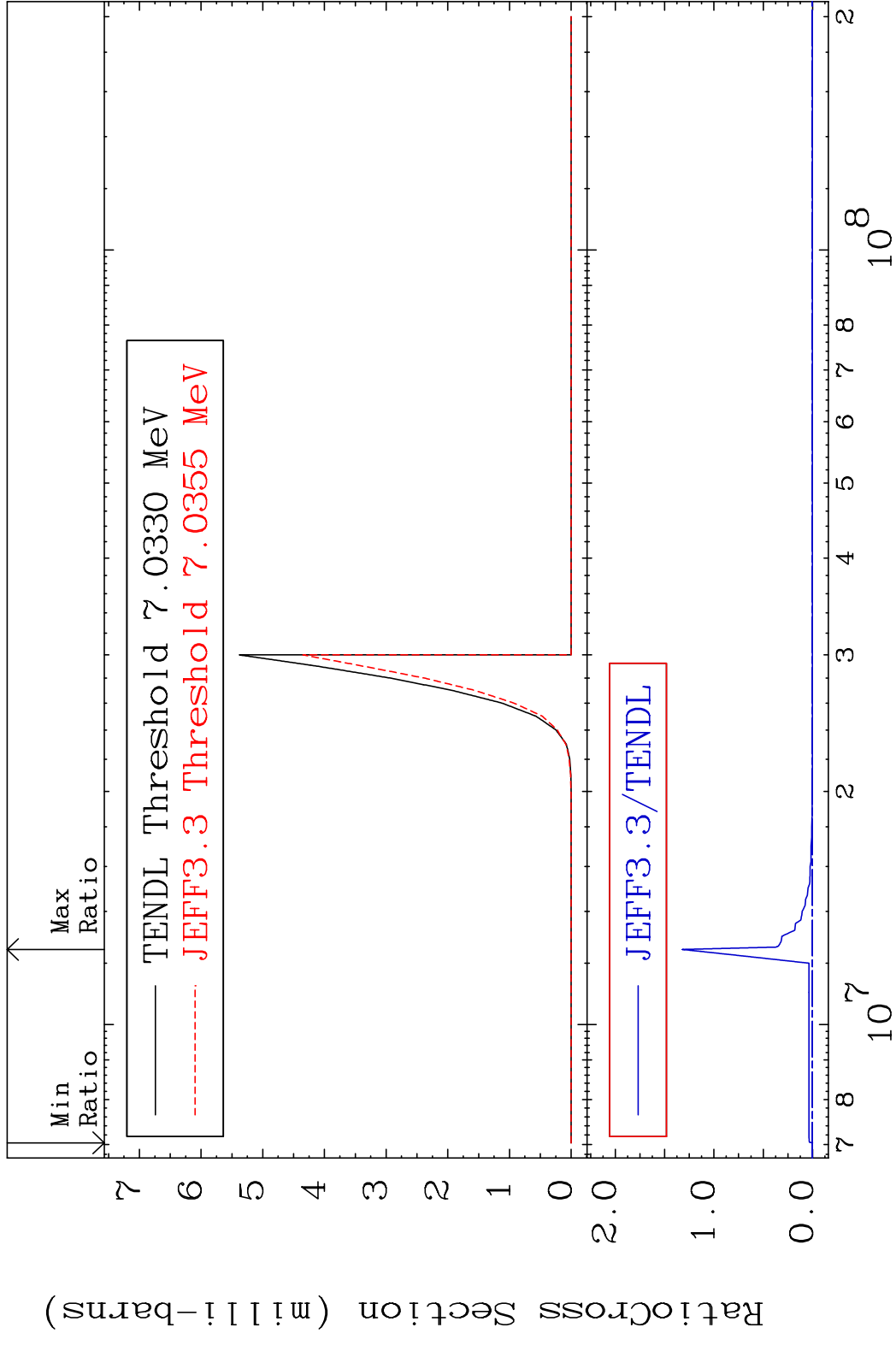
(n, n') α

68-Er-170

Cross Section -19.67 To 9999. %



MAT 6849 (n,2n) α 68-Er-170
 Cross Section -100.0 To 9999. %

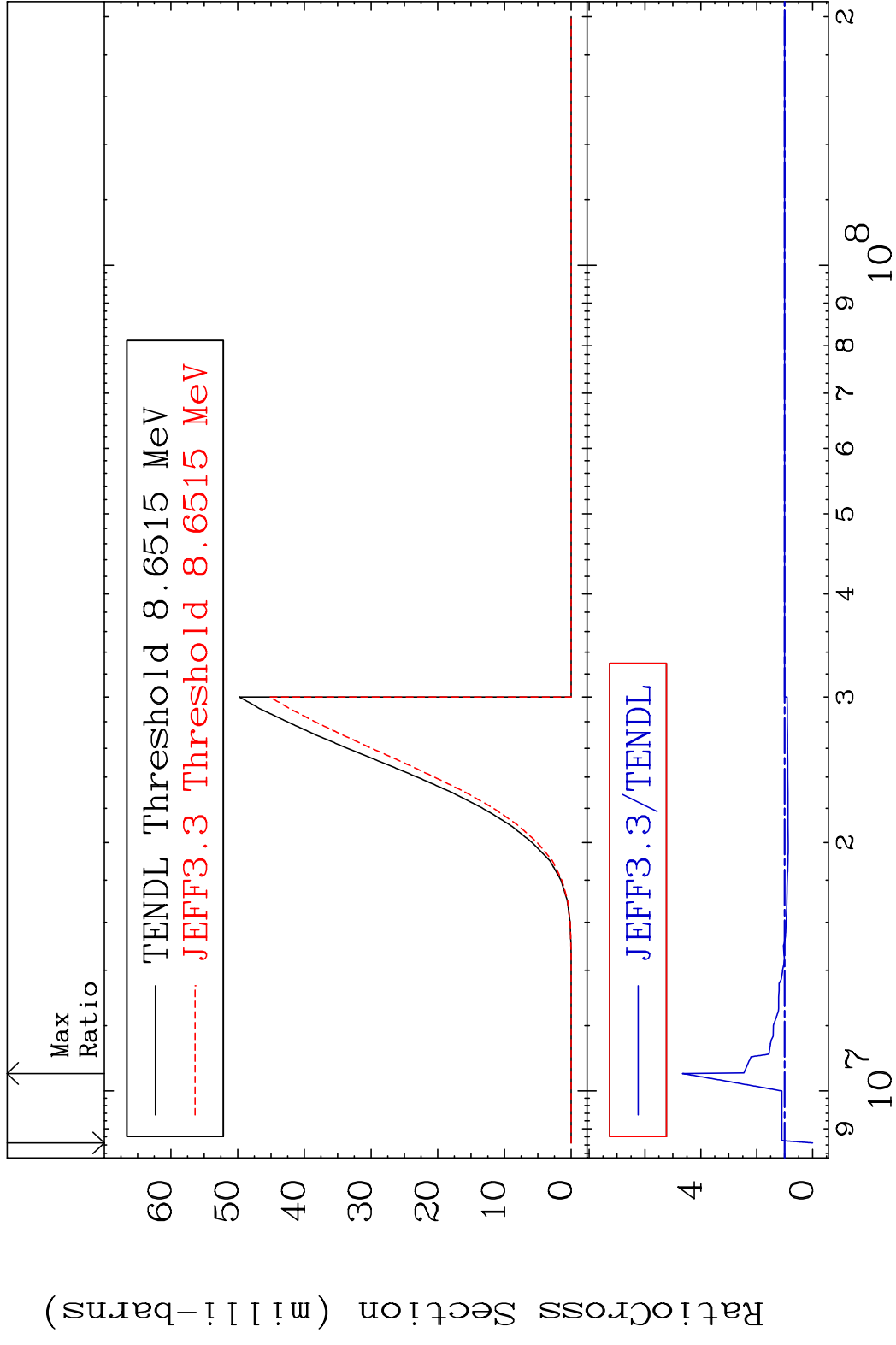


MAT 6849

(n, n') p

68-Er-170

Cross Section -100.0 To 366.1 %

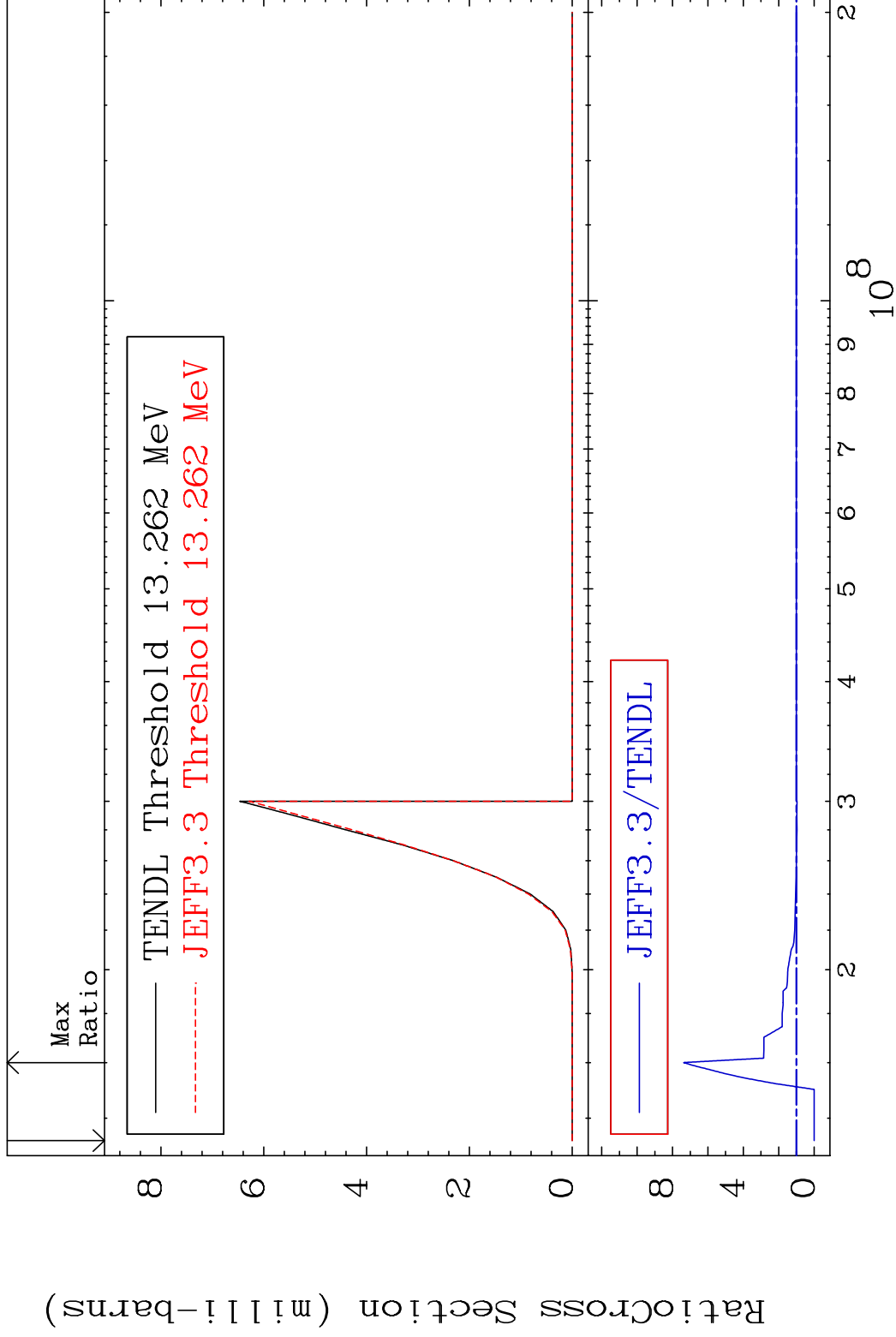


MAT 6849

(n, n') d

68-Er-170

Cross Section -100.0 To 637.0 %



12

Incident Energy (eV)

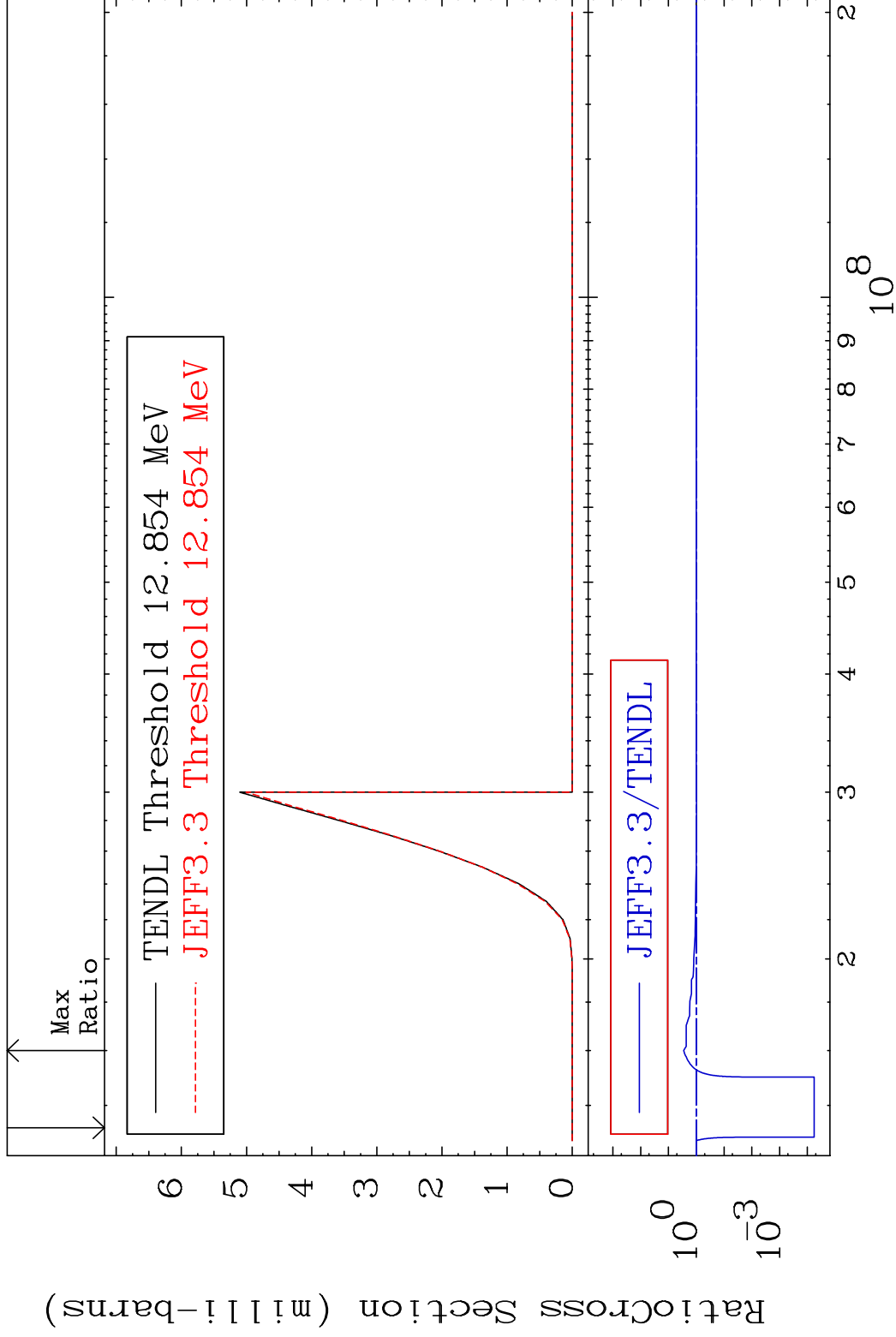
68-Er-170

MAT 6849

(n, n') t

68-Er-170

Cross Section -99.99 To 183.6 %

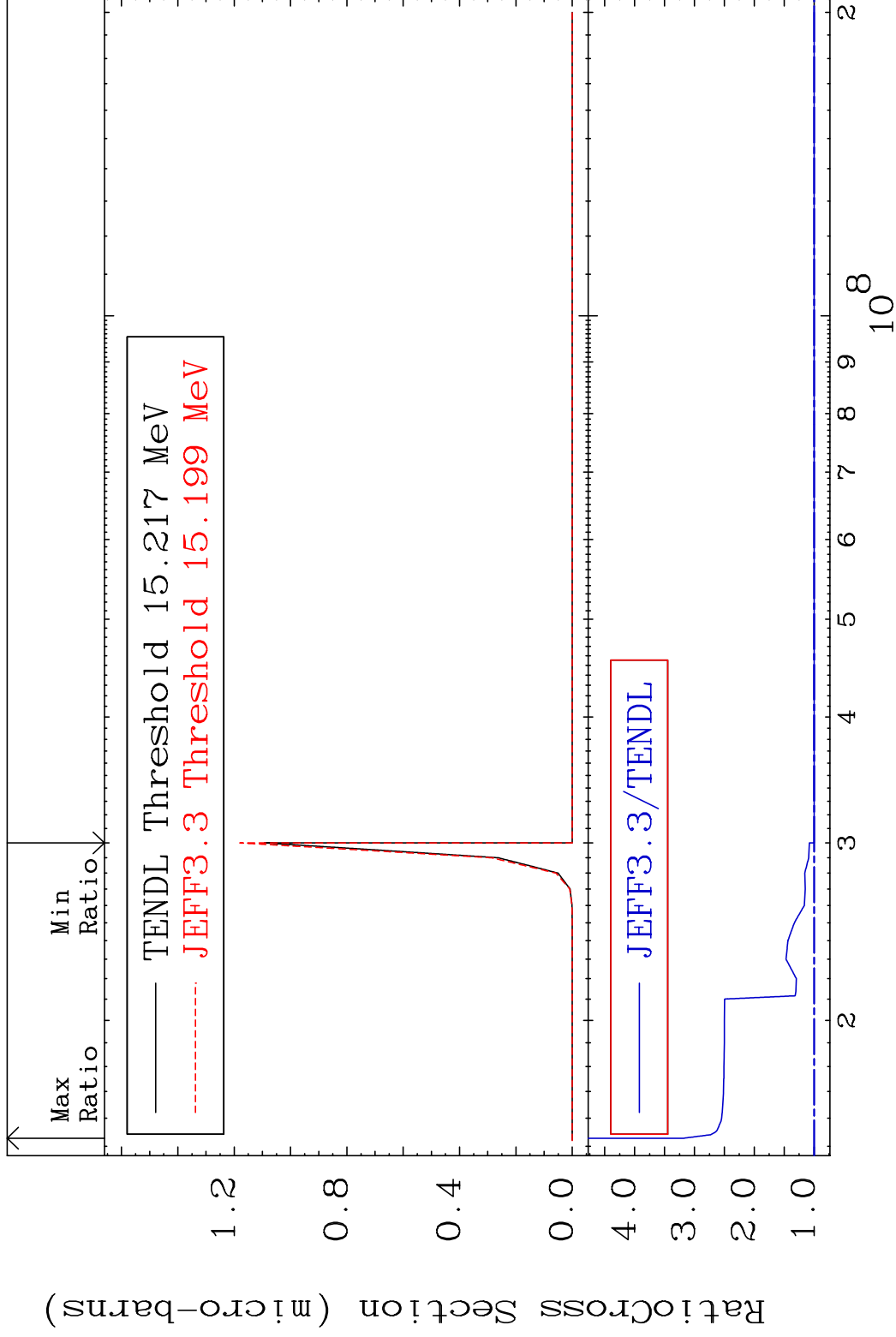


MAT 6849

(n,n') He-3

68-Er-170

Cross Section 0.000 To 218.0 %

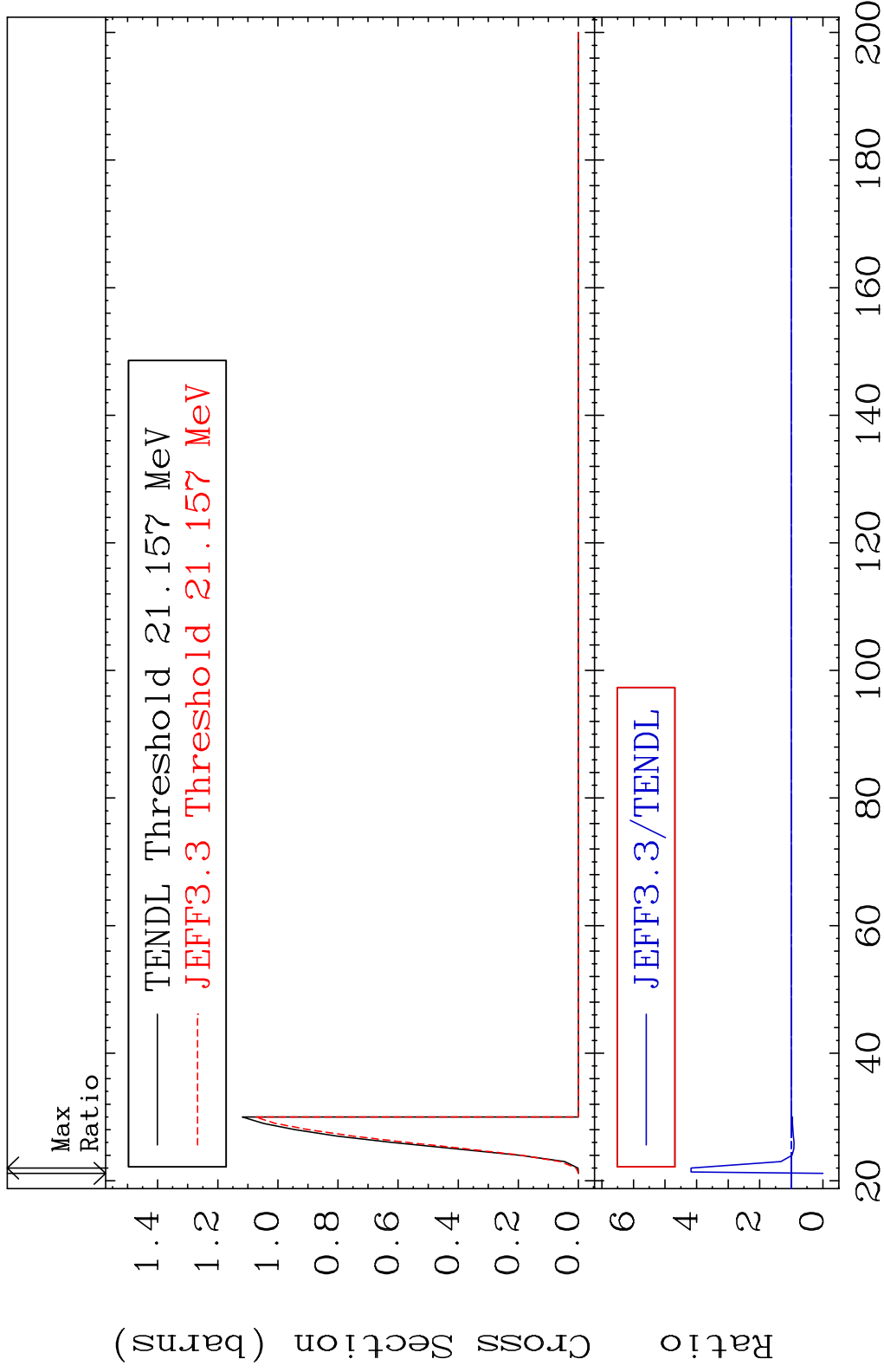


MAT 6849

(n, 4n)

68-Er-170

Cross Section -100.0 To 317.6 %



15

Incident Energy (MeV)

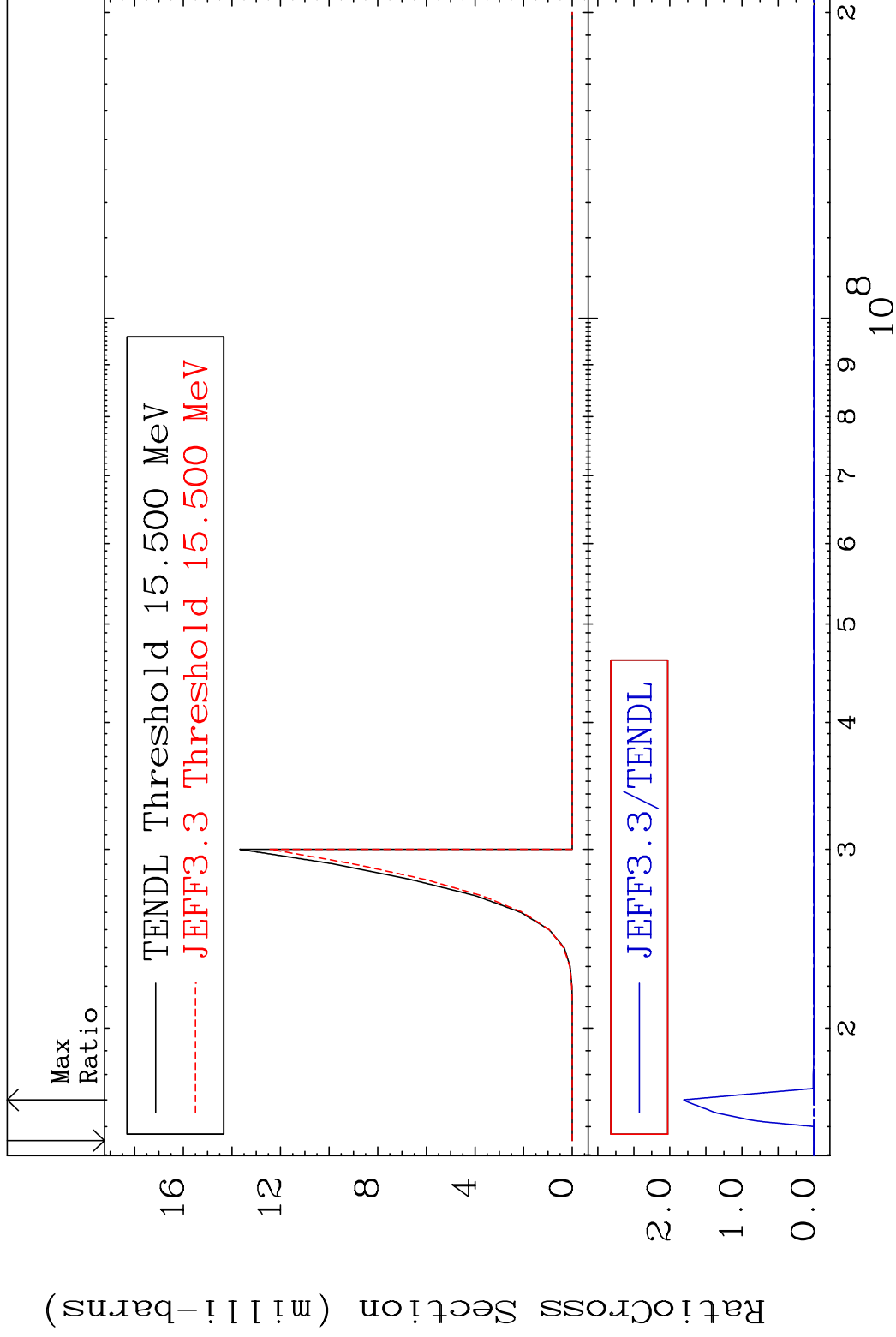
68-Er-170

MAT 6849

(n,2n) p

68-Er-170

Cross Section -100.0 To 9999. %

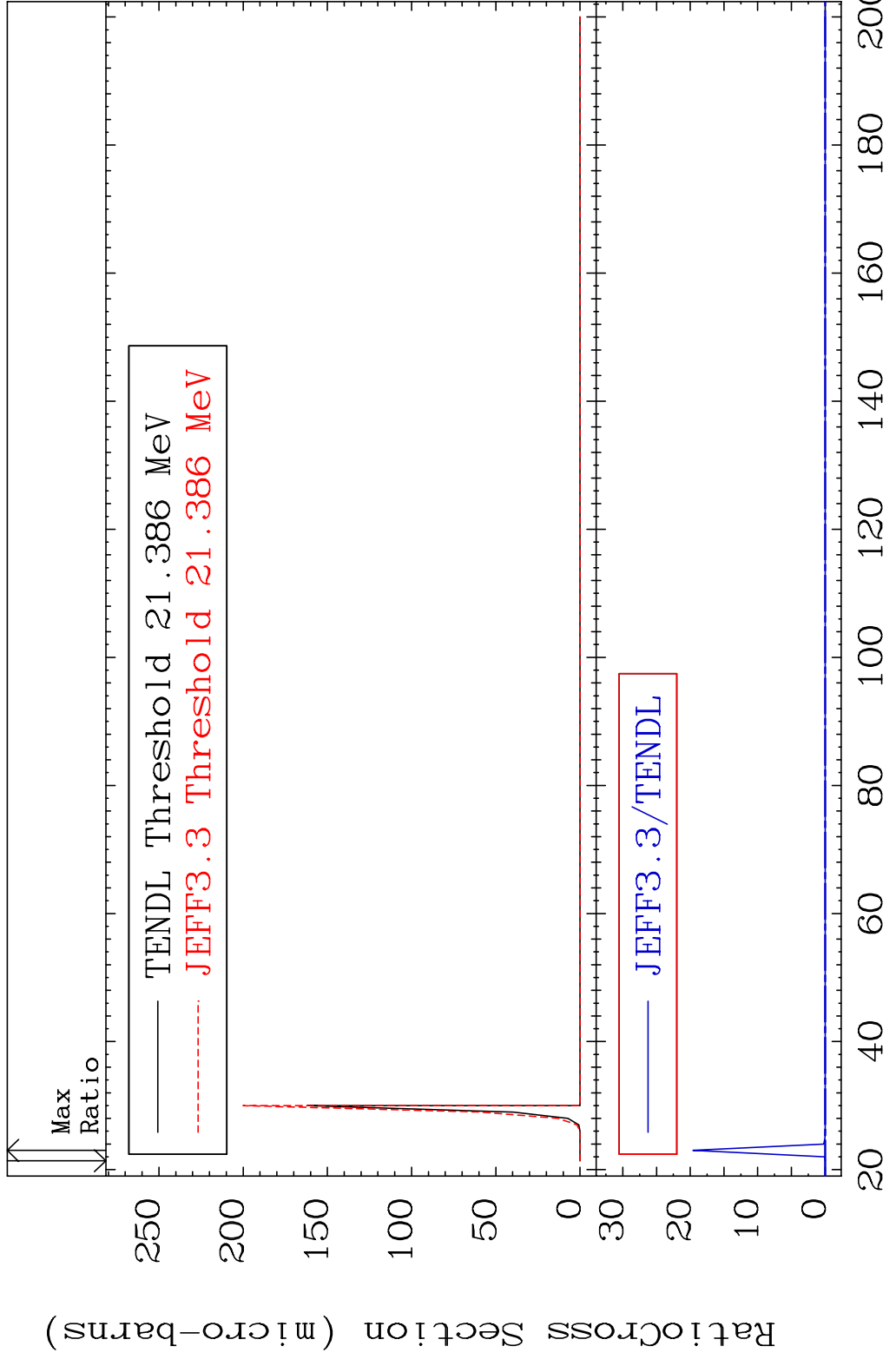


16

Incident Energy (eV)

68-Er-170

MAT 6849 (n,3n) p 68-Er-170
 Cross Section -100.0 To 9999. %

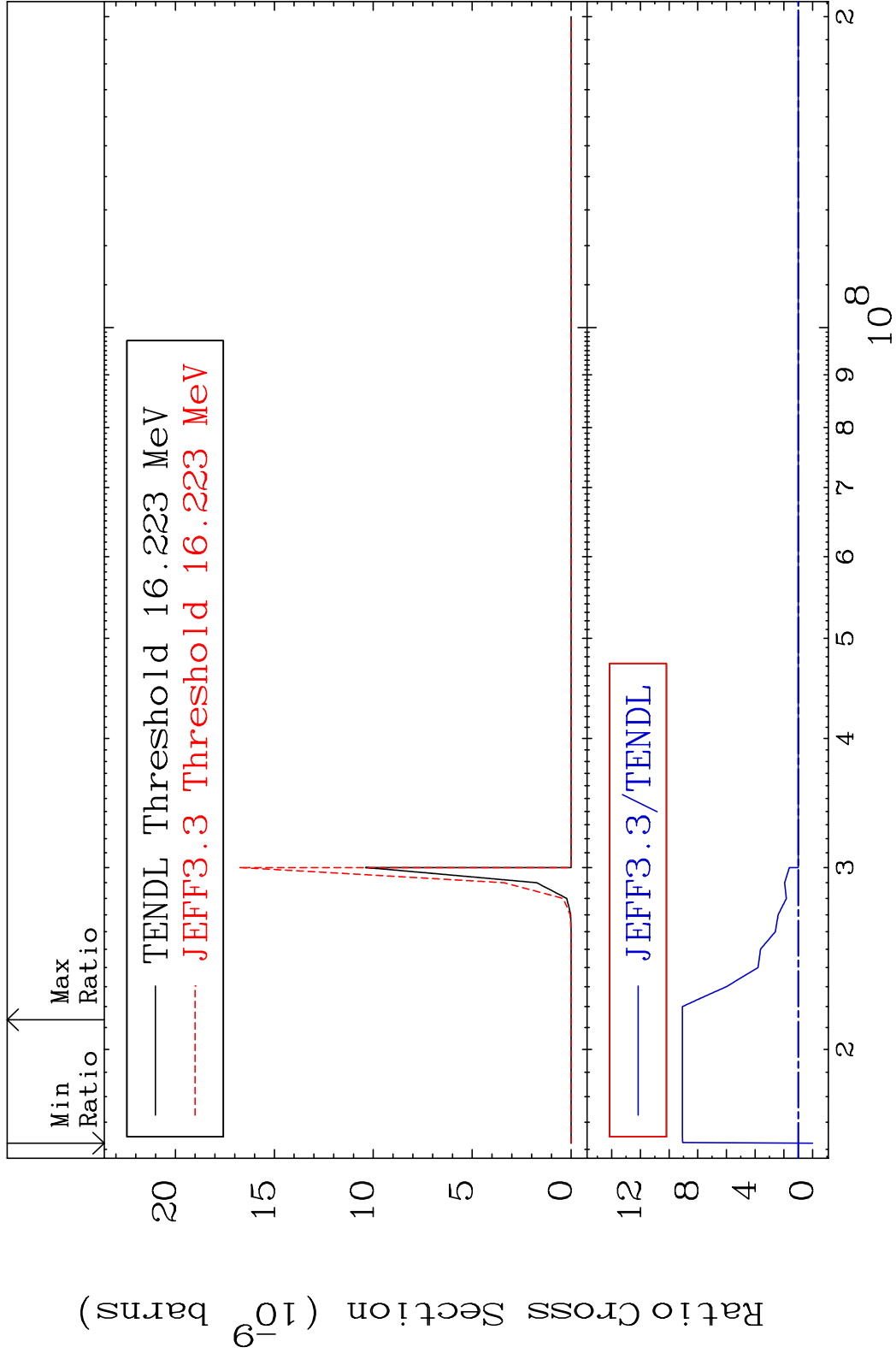


MAT 6849

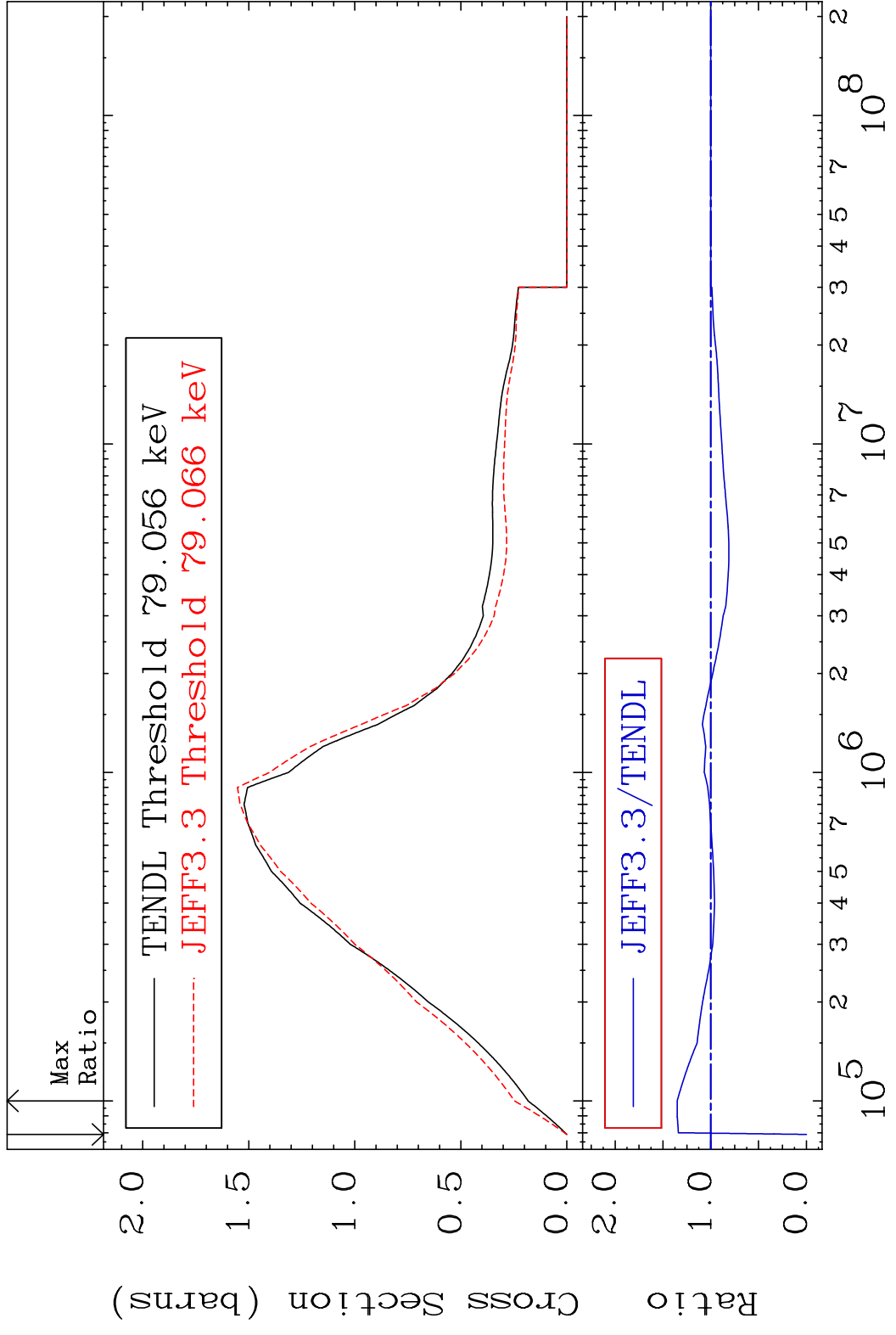
(n,2n) p

68-Er-170

Cross Section -100.0 To 807.5 %

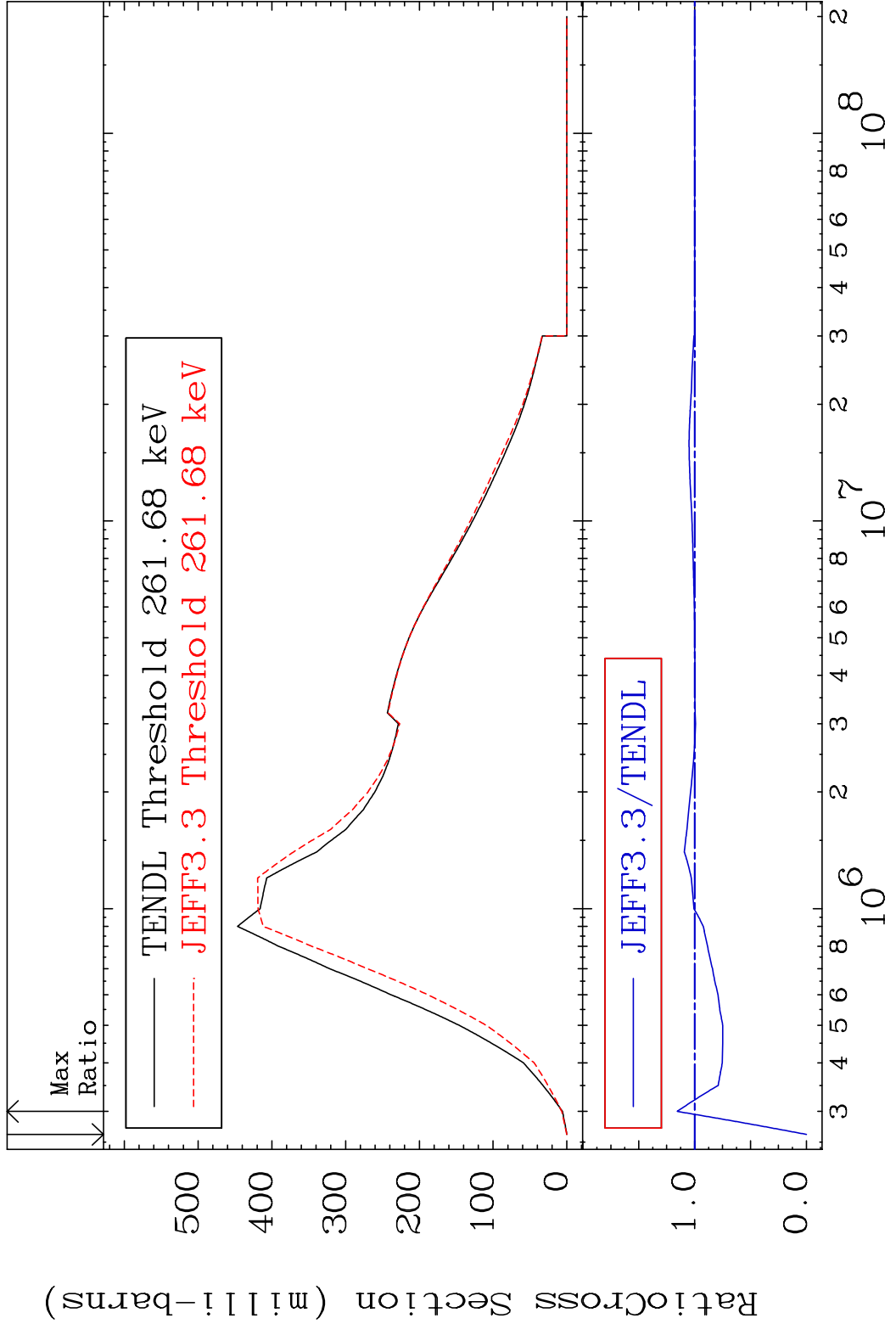


MAT 6849 MT= 51 (n, n') Level 68-Er-170
 Cross Section -100.0 To 35.11 %



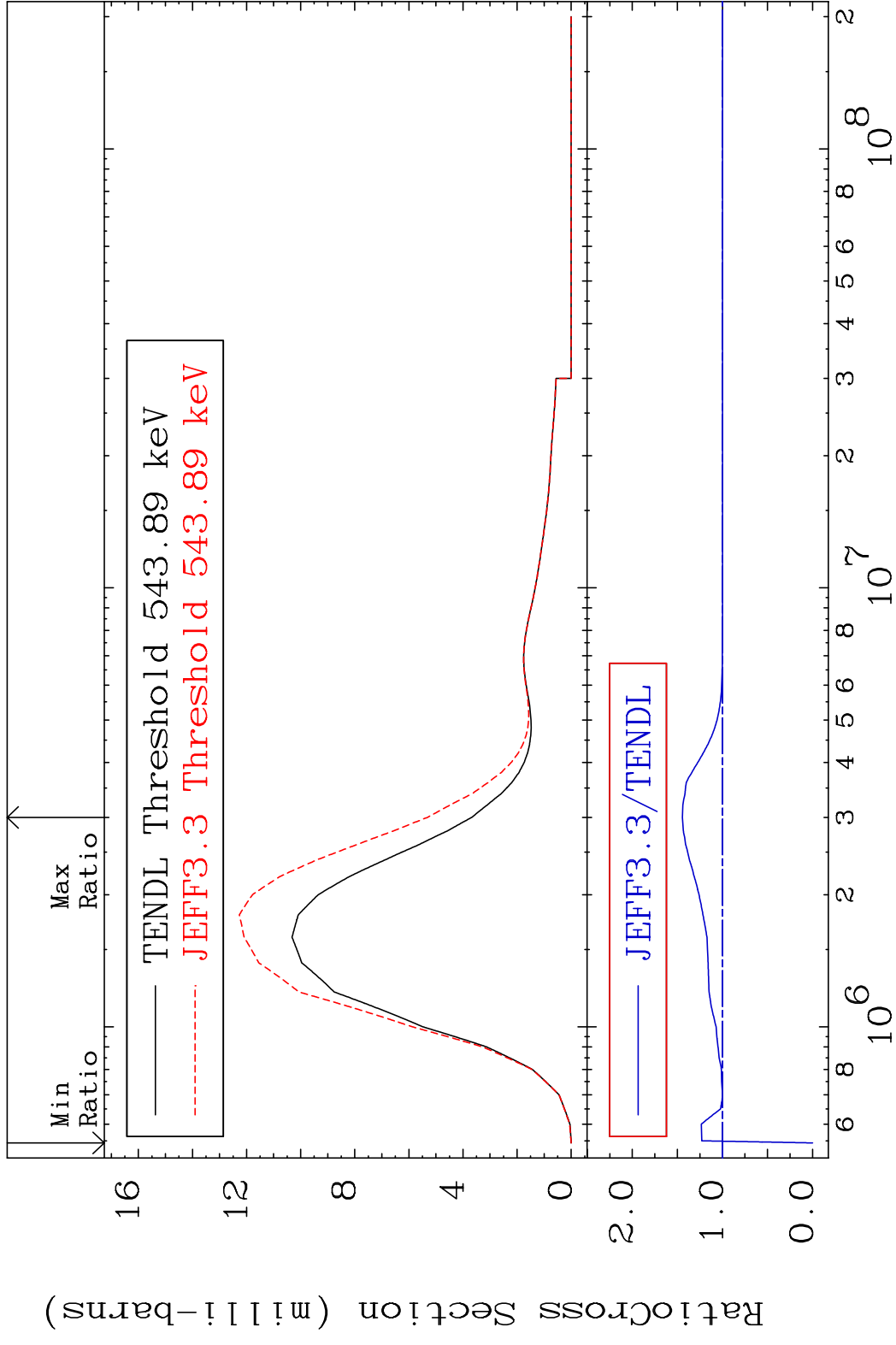
19 Incident Energy (eV) 68-Er-170

MAT 6849 MT= 52 (n, n') Level 68-Er-170
 Cross Section -100.0 To 15.61 %

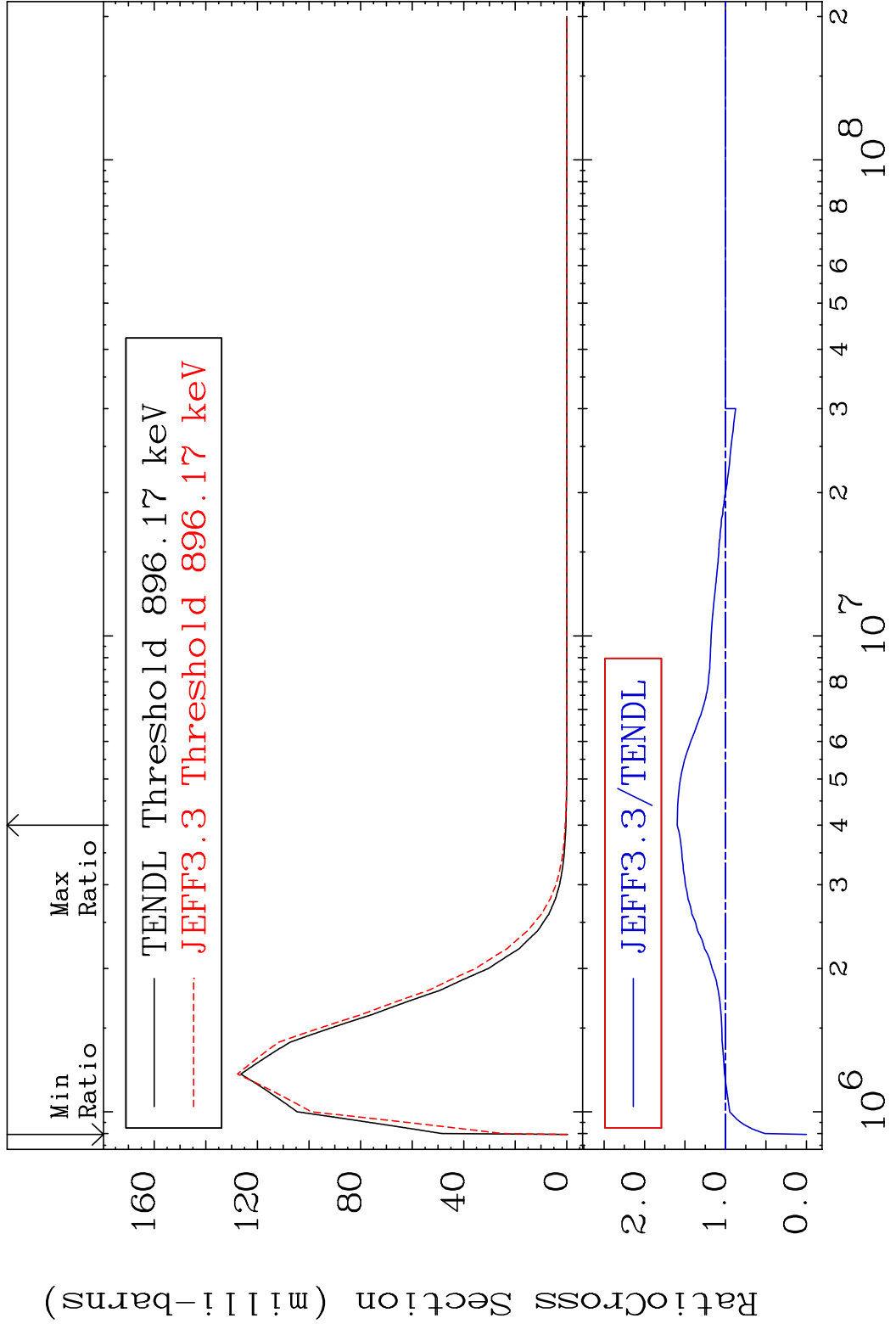


20 68-Er-170

MAT 6849 MT= 53 (n, n') Level 68-Er-170
 Cross Section -100.0 To 44.49 %



MAT 6849 MT= 54 (n, n') Level 68-Er-170
 Cross Section -100.0 To 59.65 %

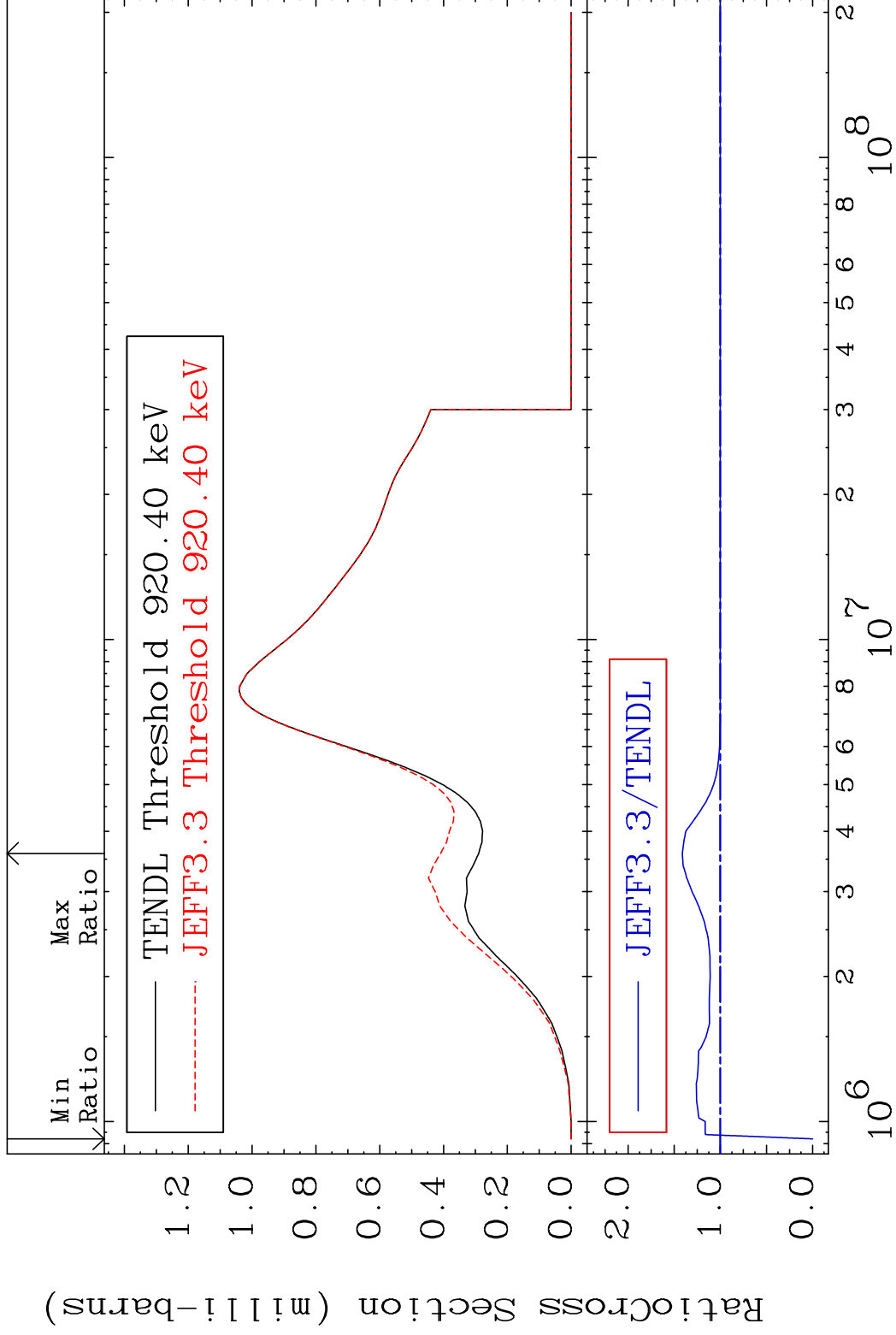


MAT 6849

MT= 55 (n,n') Level

68-Er-170

Cross Section -100.0 To 41.13 %

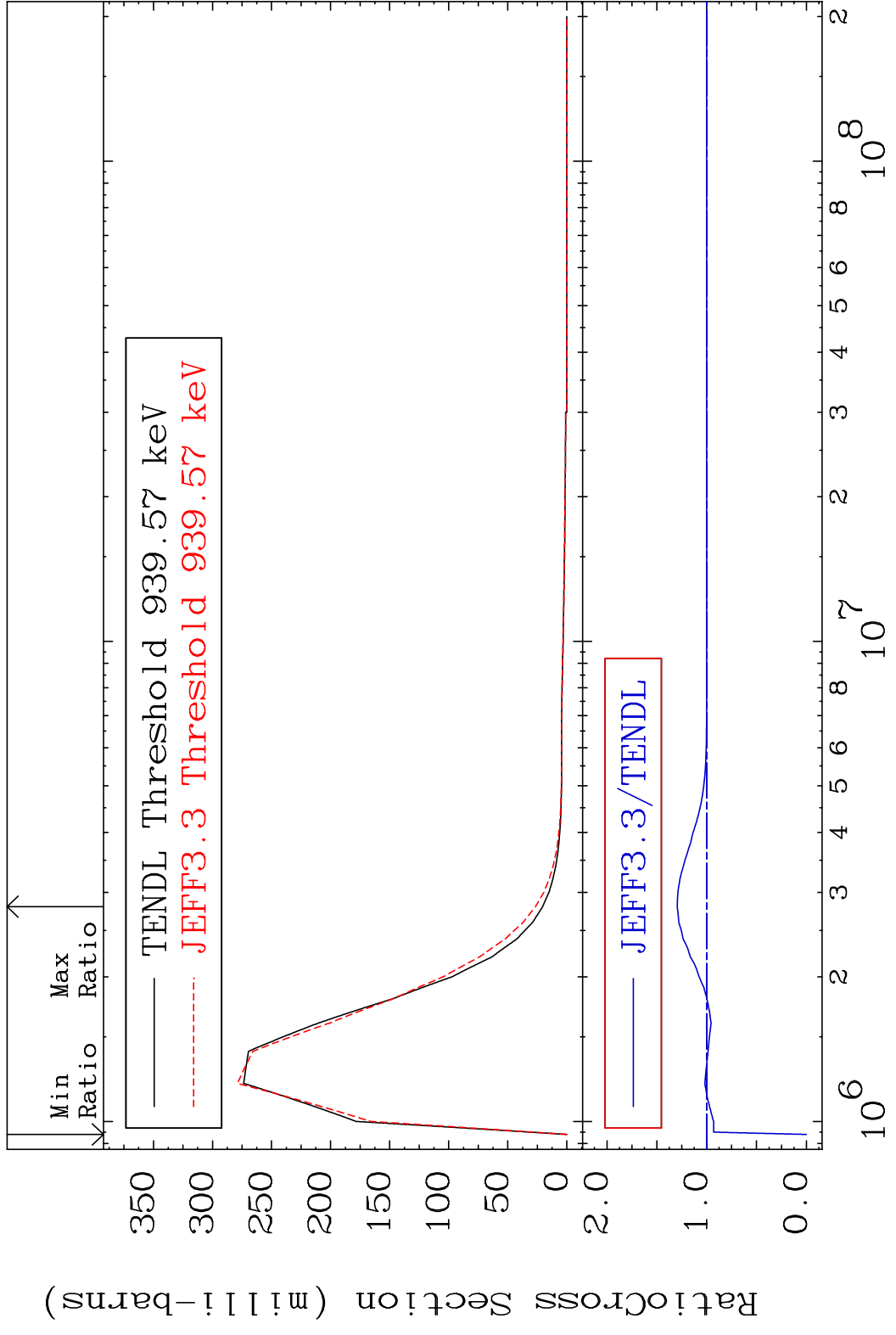


23

Incident Energy (eV)

68-Er-170

MAT 6849 MT= 56 (n,n') Level 68-Er-170
 Cross Section -100.0 To 29.57 %



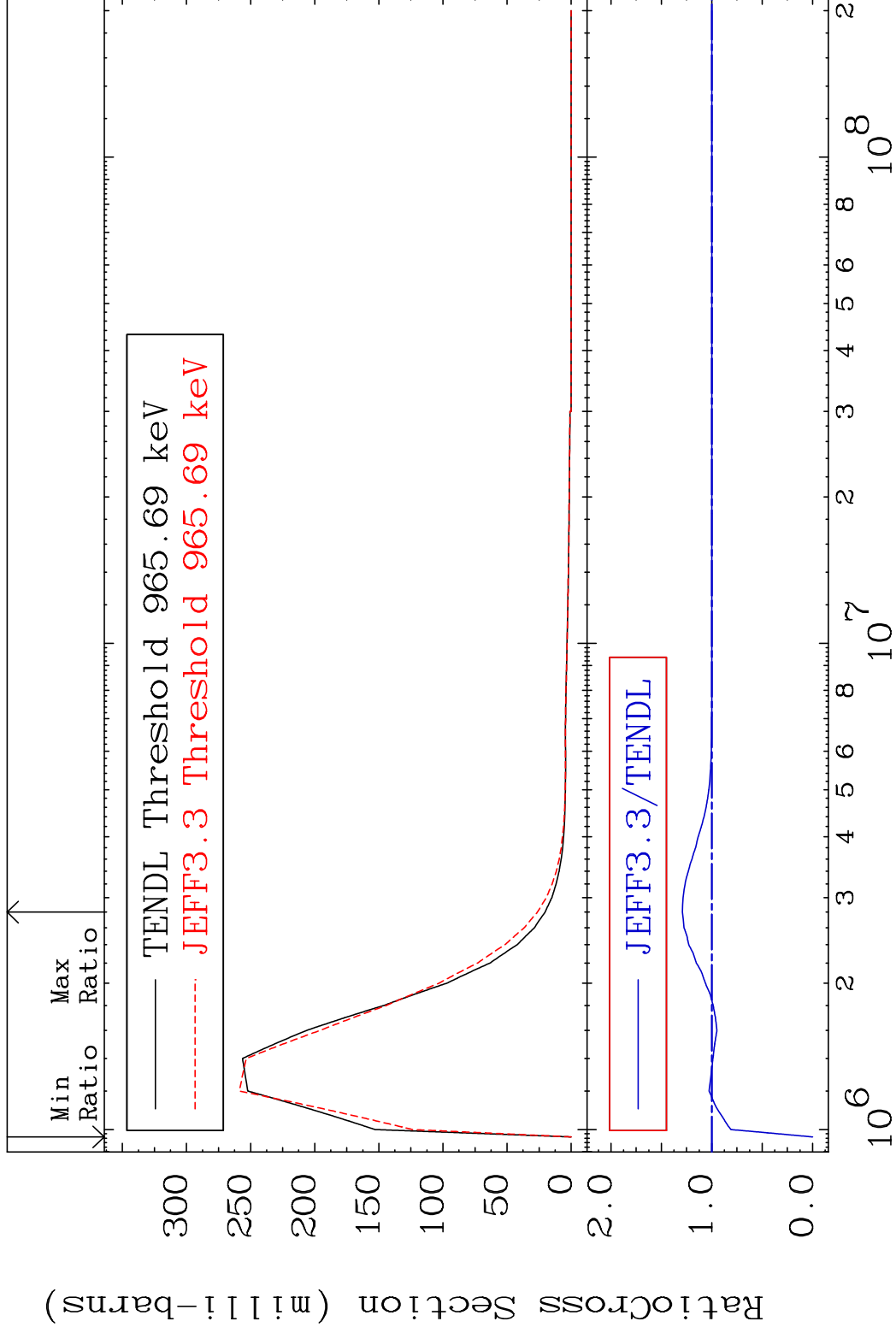
24 Incident Energy (eV) 68-Er-170

MAT 6849

MT= 57 (n,n') Level

68-Er-170

Cross Section -100.0 To 29.18 %

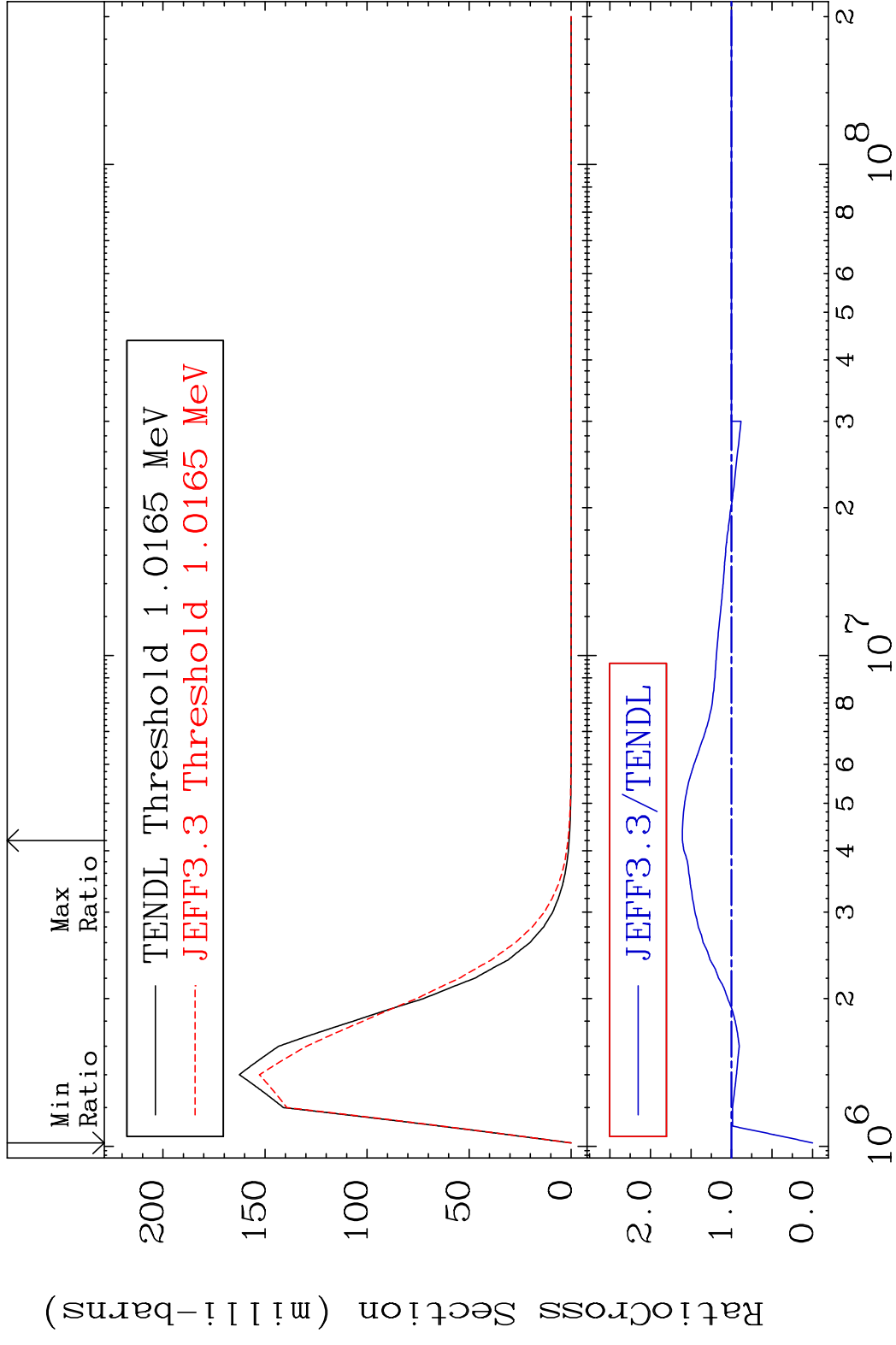


25

Incident Energy (eV)

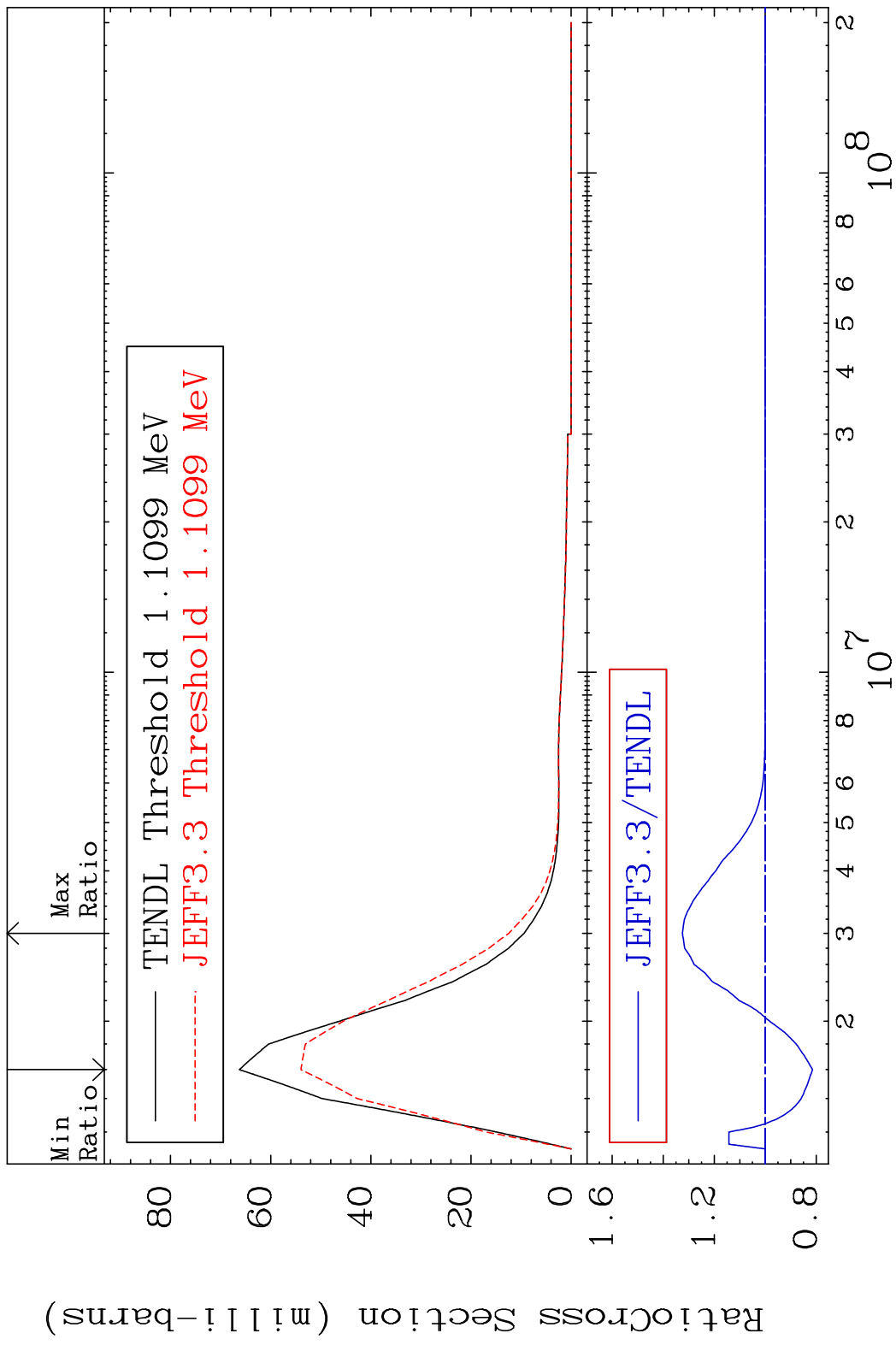
68-Er-170

MAT 6849 MT= 58 (n, n') Level 68-Er-170
 Cross Section -100.0 To 60.64 %

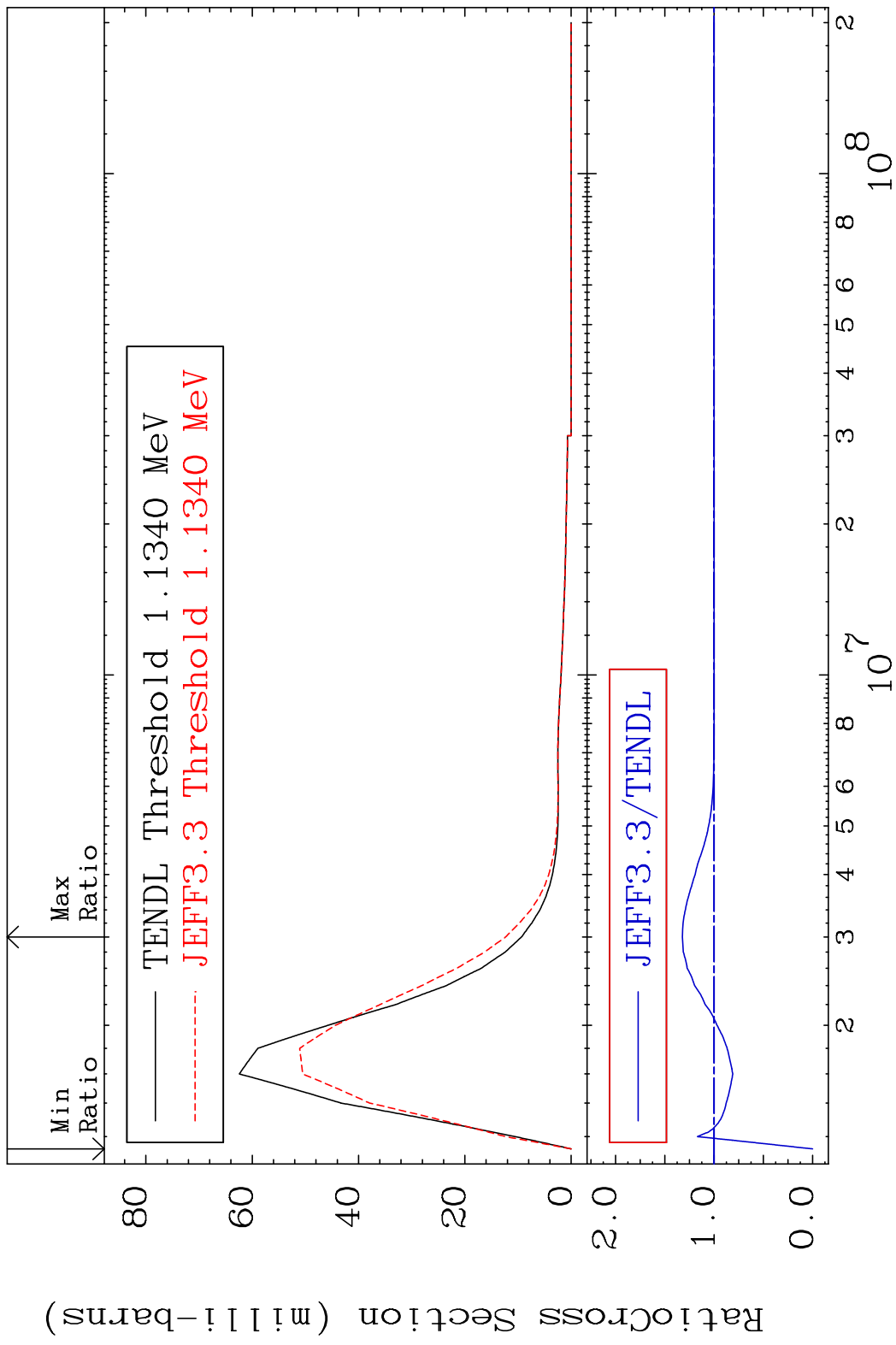


26 Incident Energy (eV) 68-Er-170

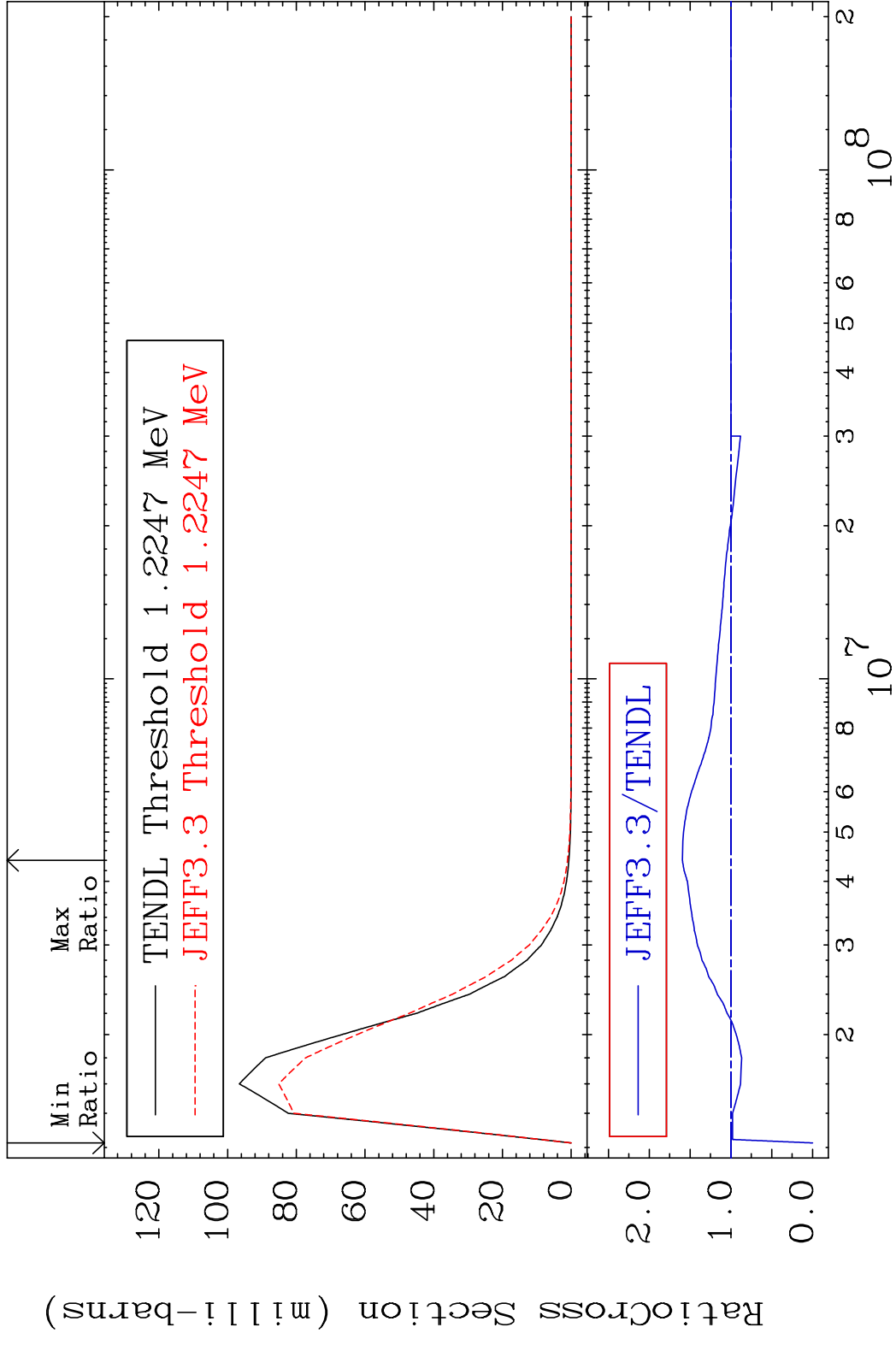
MAT 6849 MT= 59 (n, n') Level 68-Er-170
 Cross Section -18.54 To 32.50 %



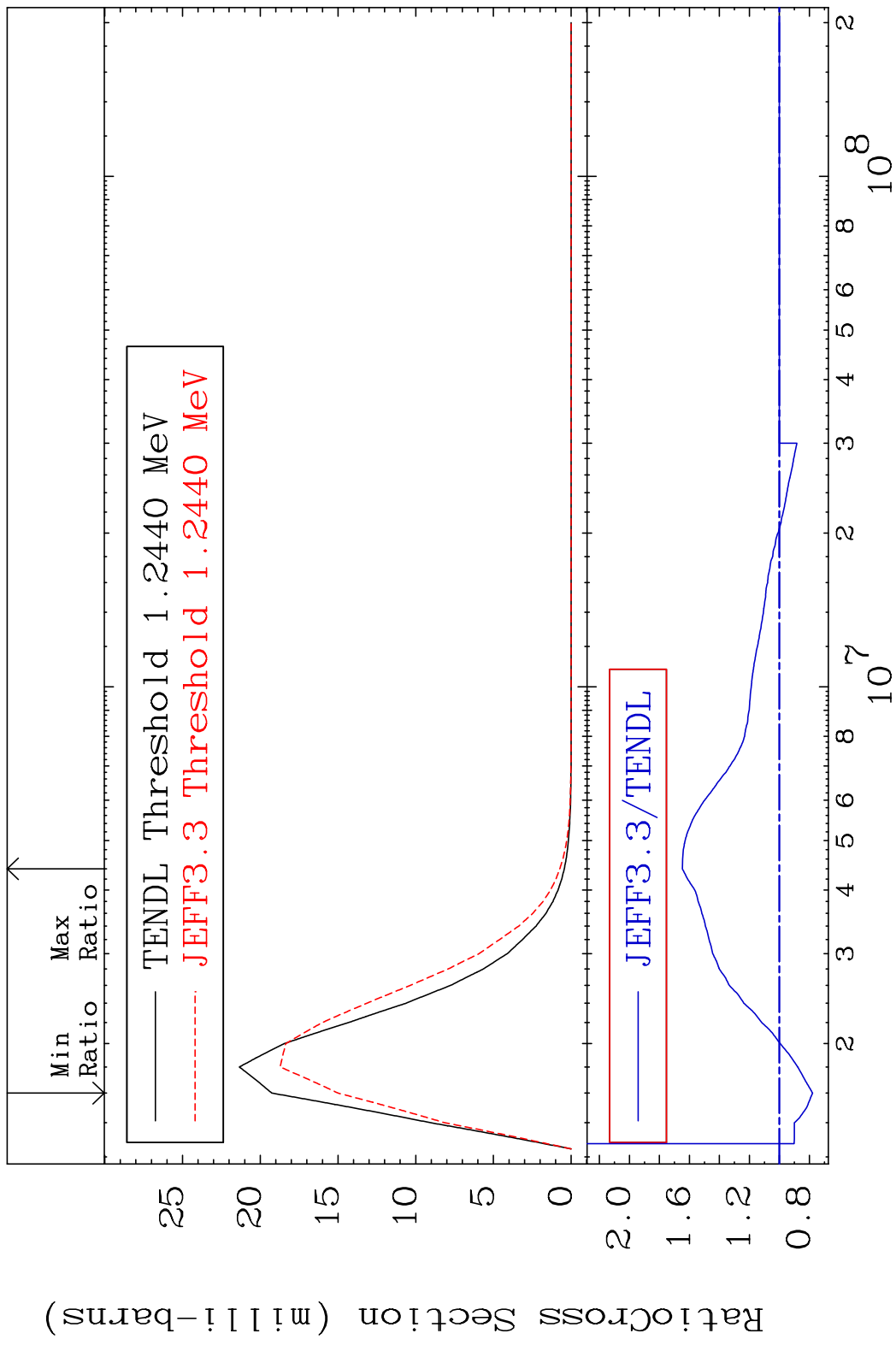
MAT 6849 MT= 60 (n, n') Level 68-Er-170
 Cross Section -100.0 To 32.16 %



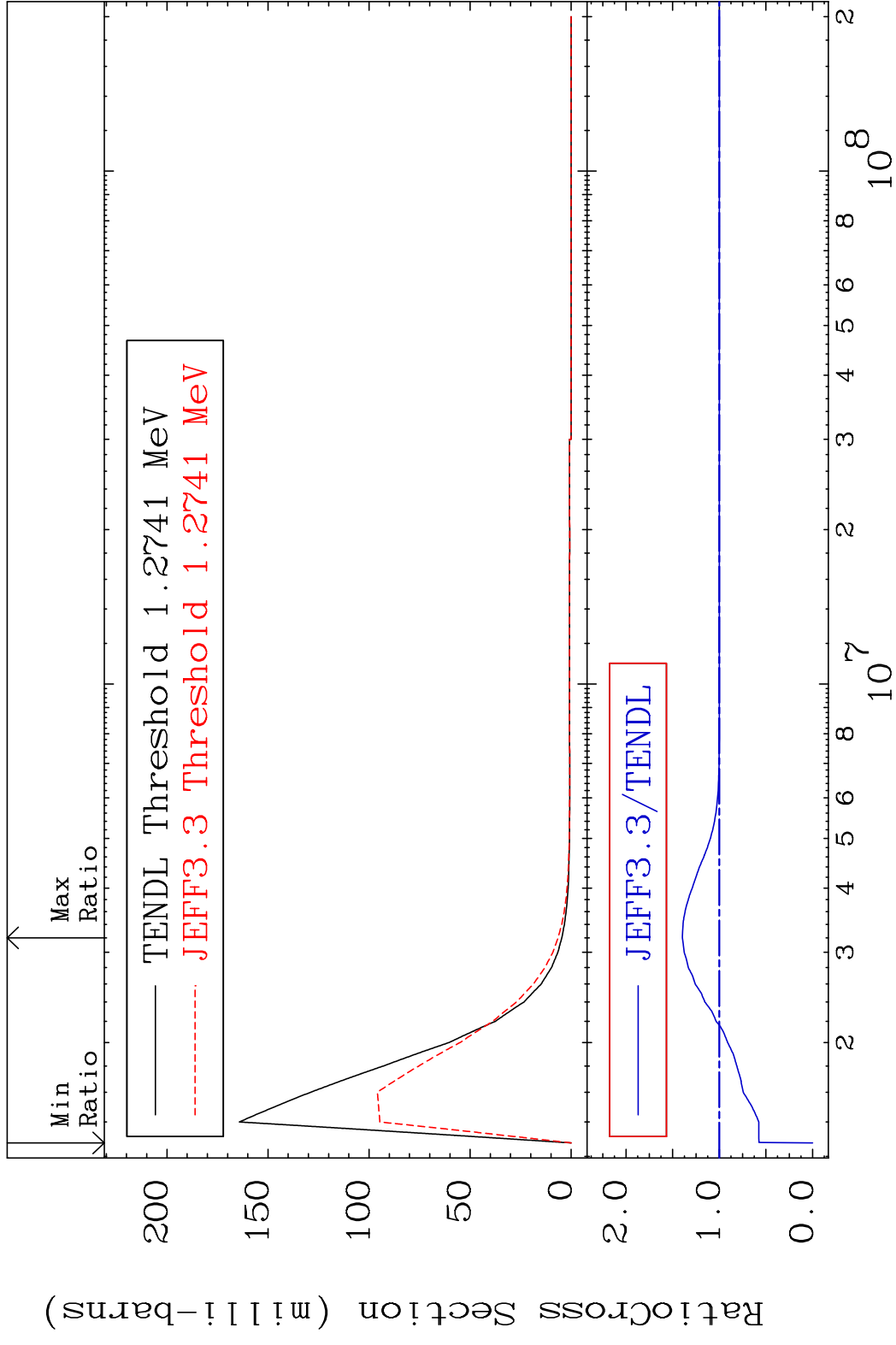
MAT 6849 MT= 61 (n, n') Level 68-Er-170
 Cross Section -100.0 To 59.48 %



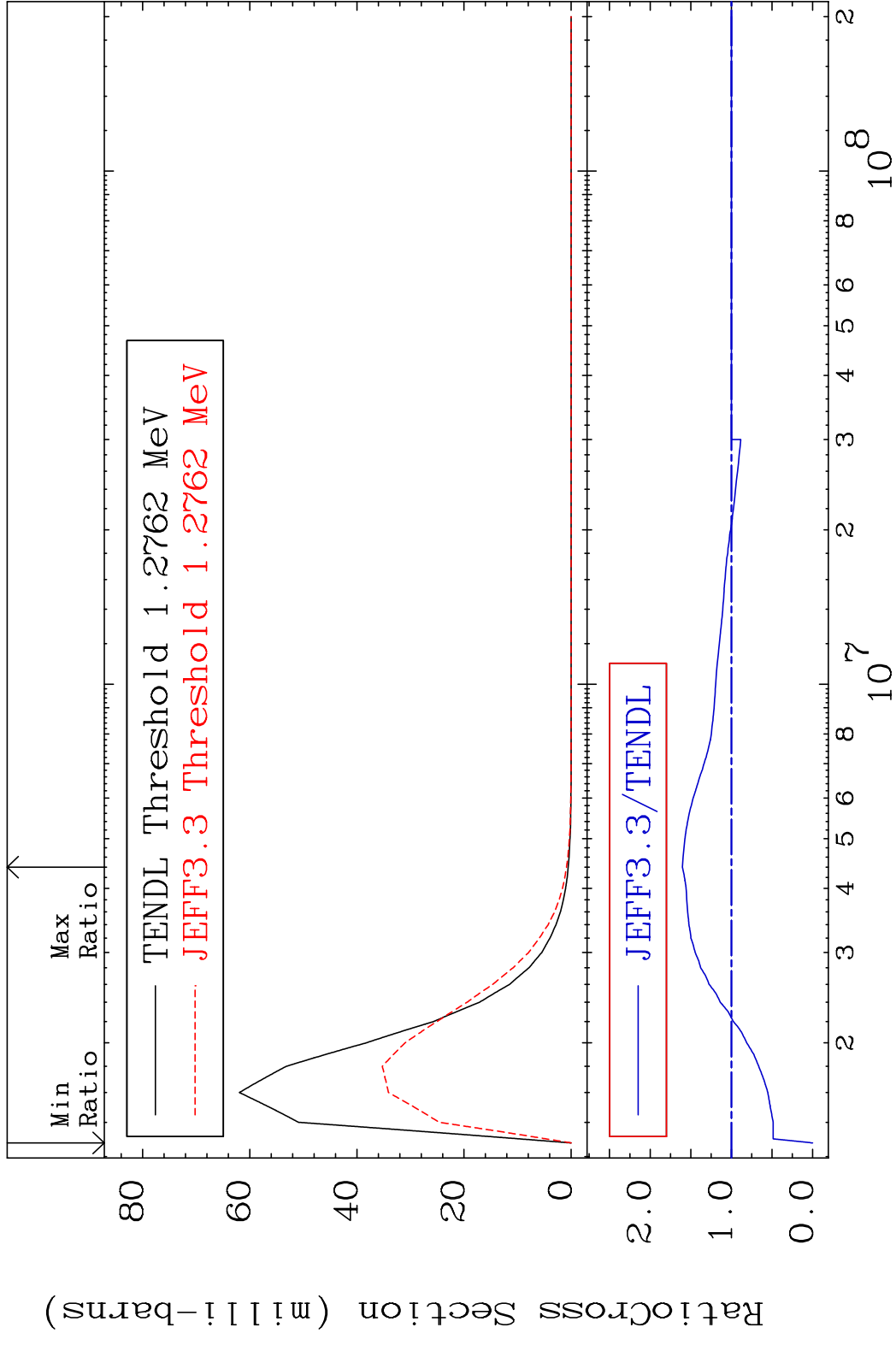
MAT 6849 MT= 62 (n, n') Level 68-Er-170
 Cross Section -22.12 To 64.72 %



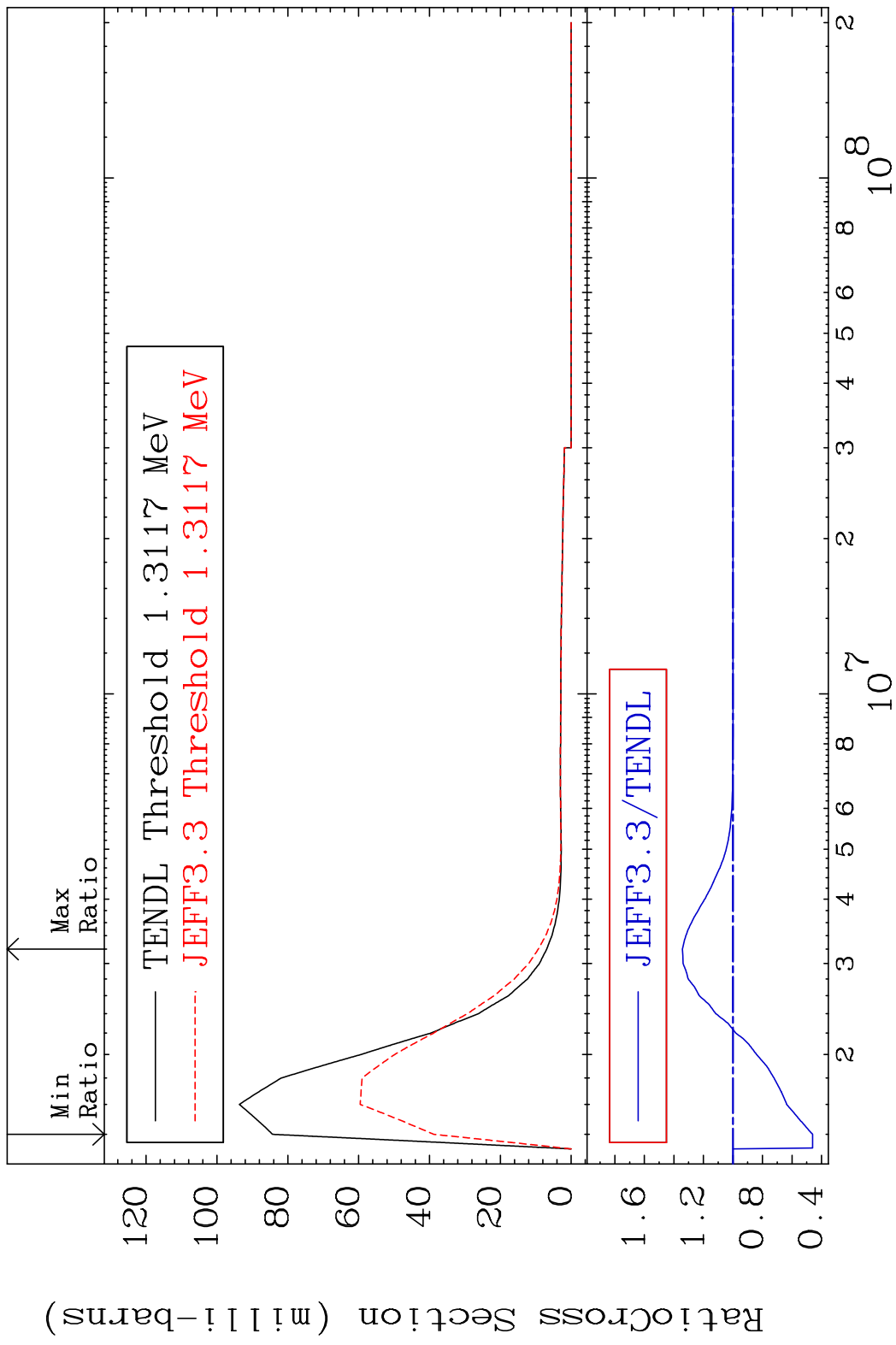
MAT 6849 MT= 63 (n, n') Level 68-Er-170
 Cross Section -100.0 To 39.64 %



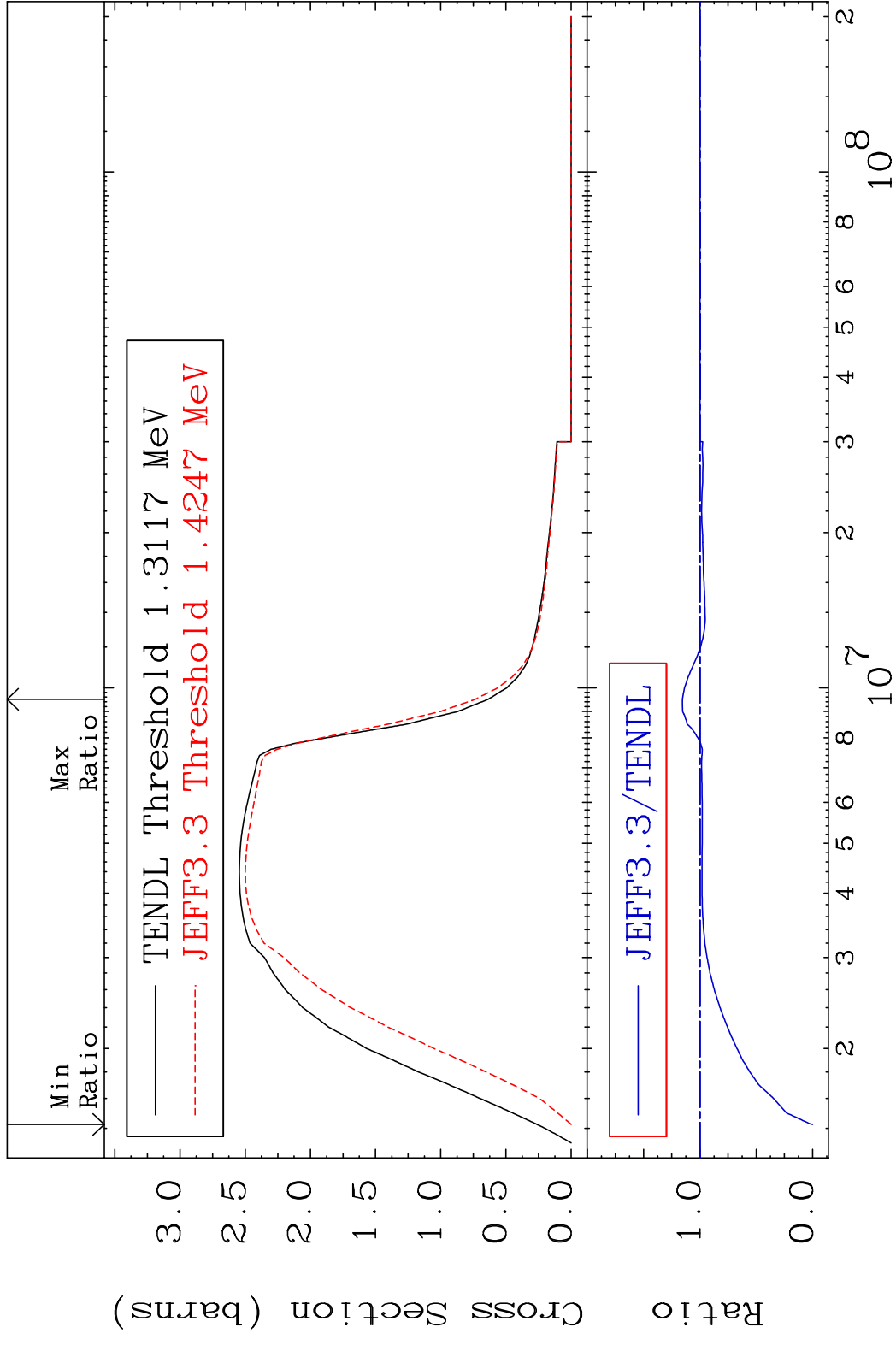
MAT 6849 MT= 64 (n, n') Level 68-Er-170
 Cross Section -100.0 To 60.32 %



MAT 6849 MT= 65 (n, n') Level 68-Er-170
 Cross Section -53.94 To 34.27 %



MAT 6849 (n, n') Continuum 68-Er-170
 Cross Section -100.0 To 15.58 %

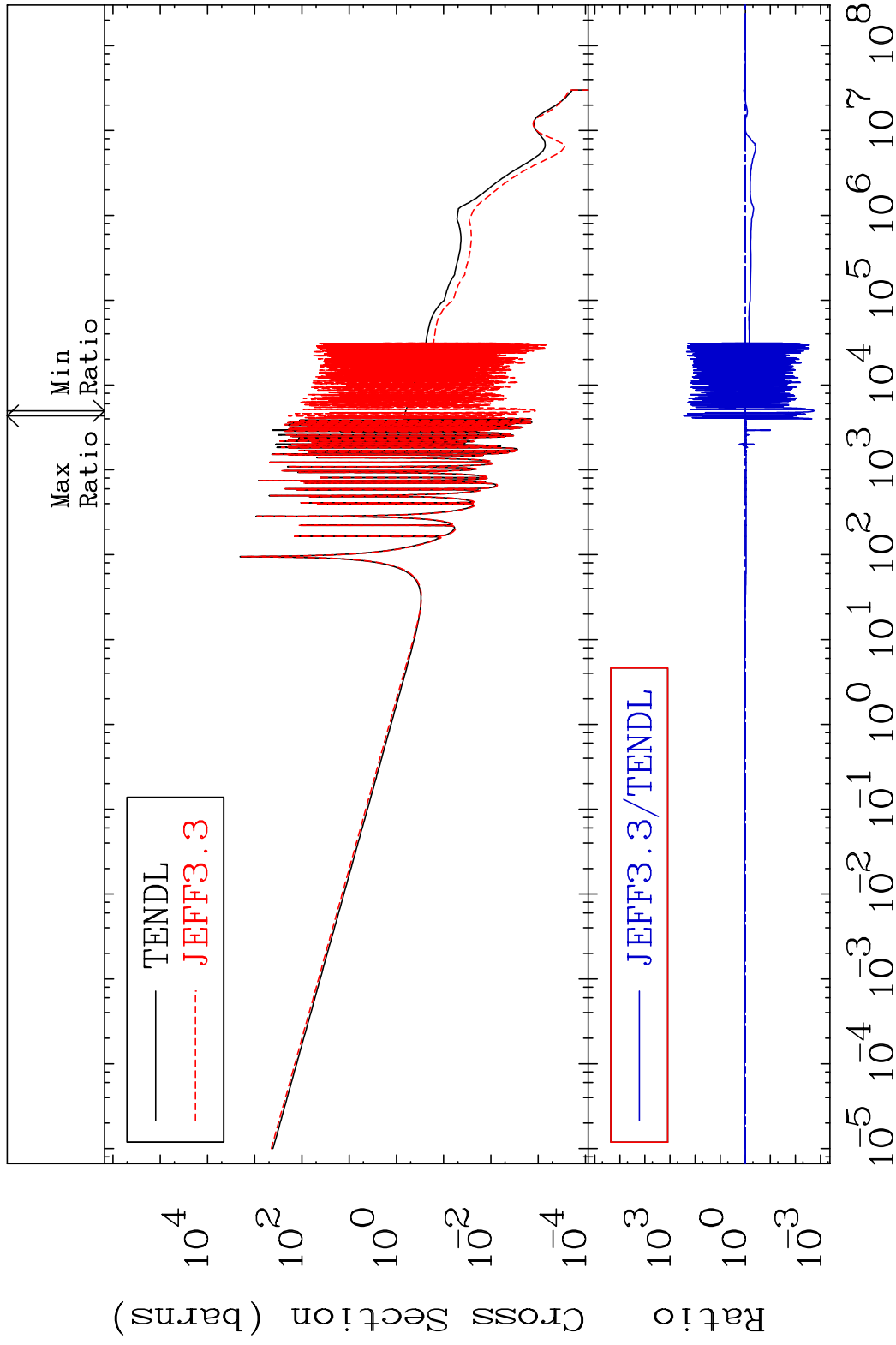


MAT 6849

(n, γ)

68-Er-170

Cross Section -99.82 To 9999. %



35

Incident Energy (eV)

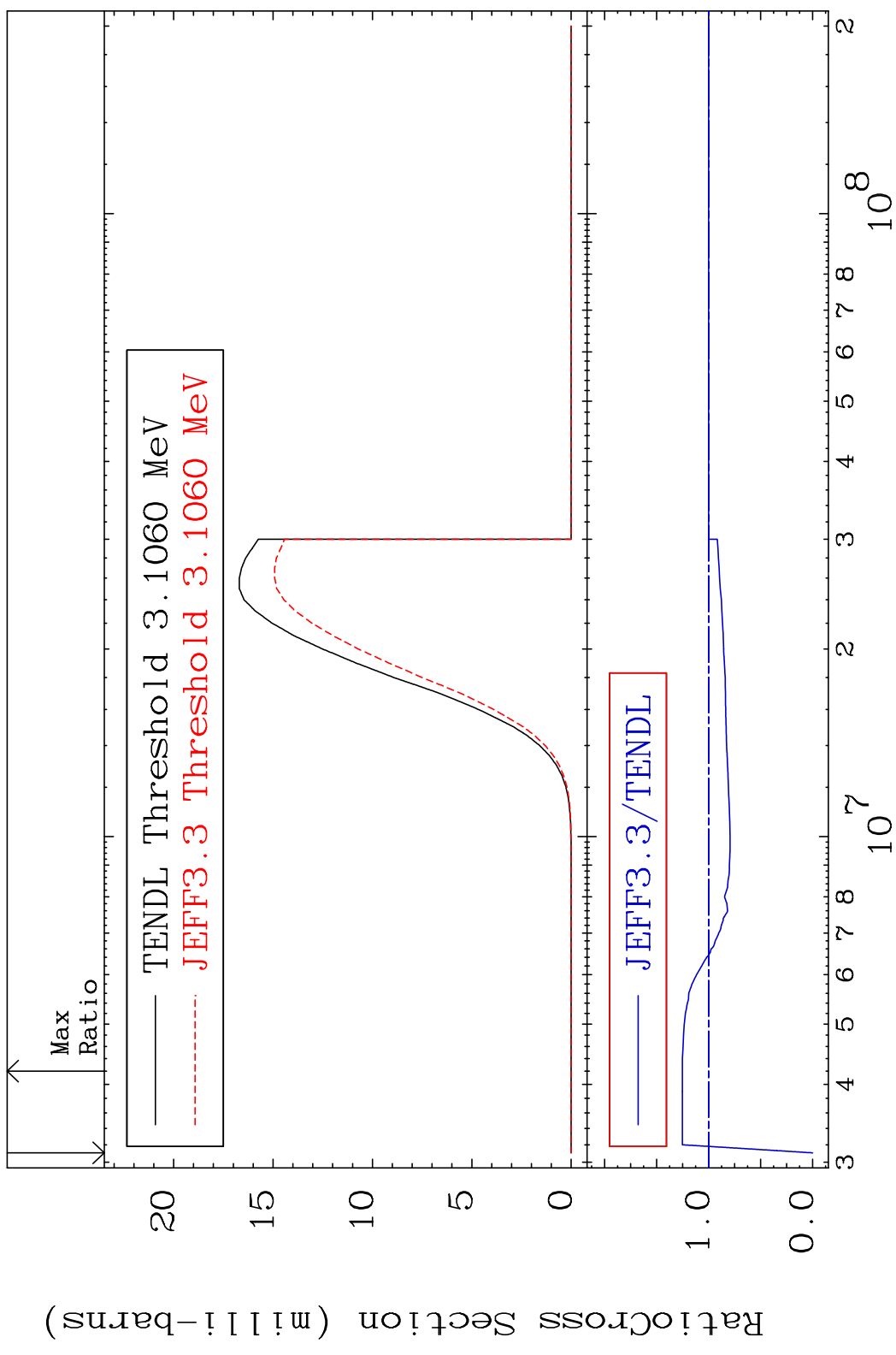
68-Er-170

MAT 6849

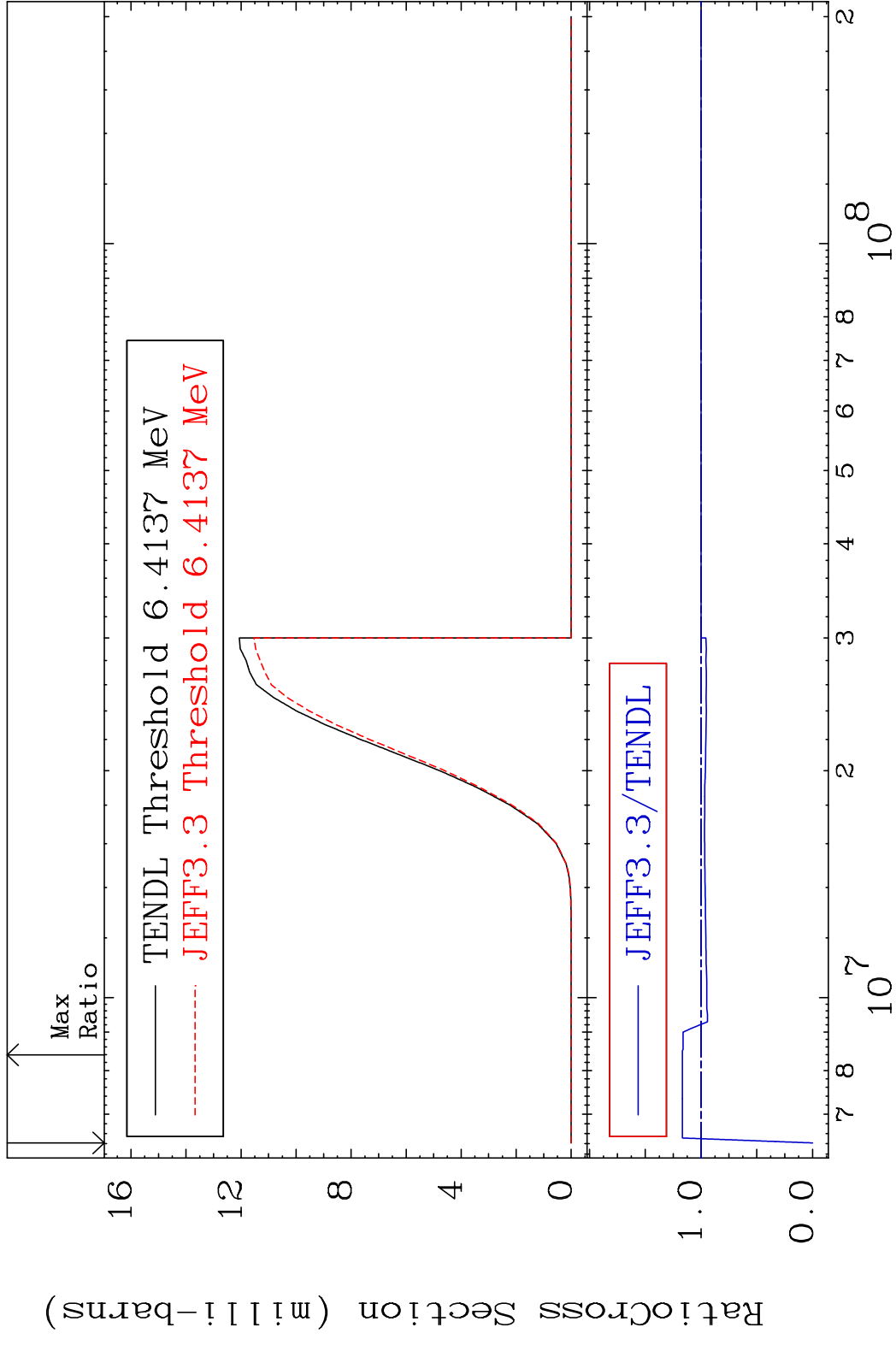
(n, p)

68-Er-170

Cross Section -100.0 To 25.25 %



MAT 6849 (n,d) 68-Er-170
 Cross Section -100.0 To 16.79 %

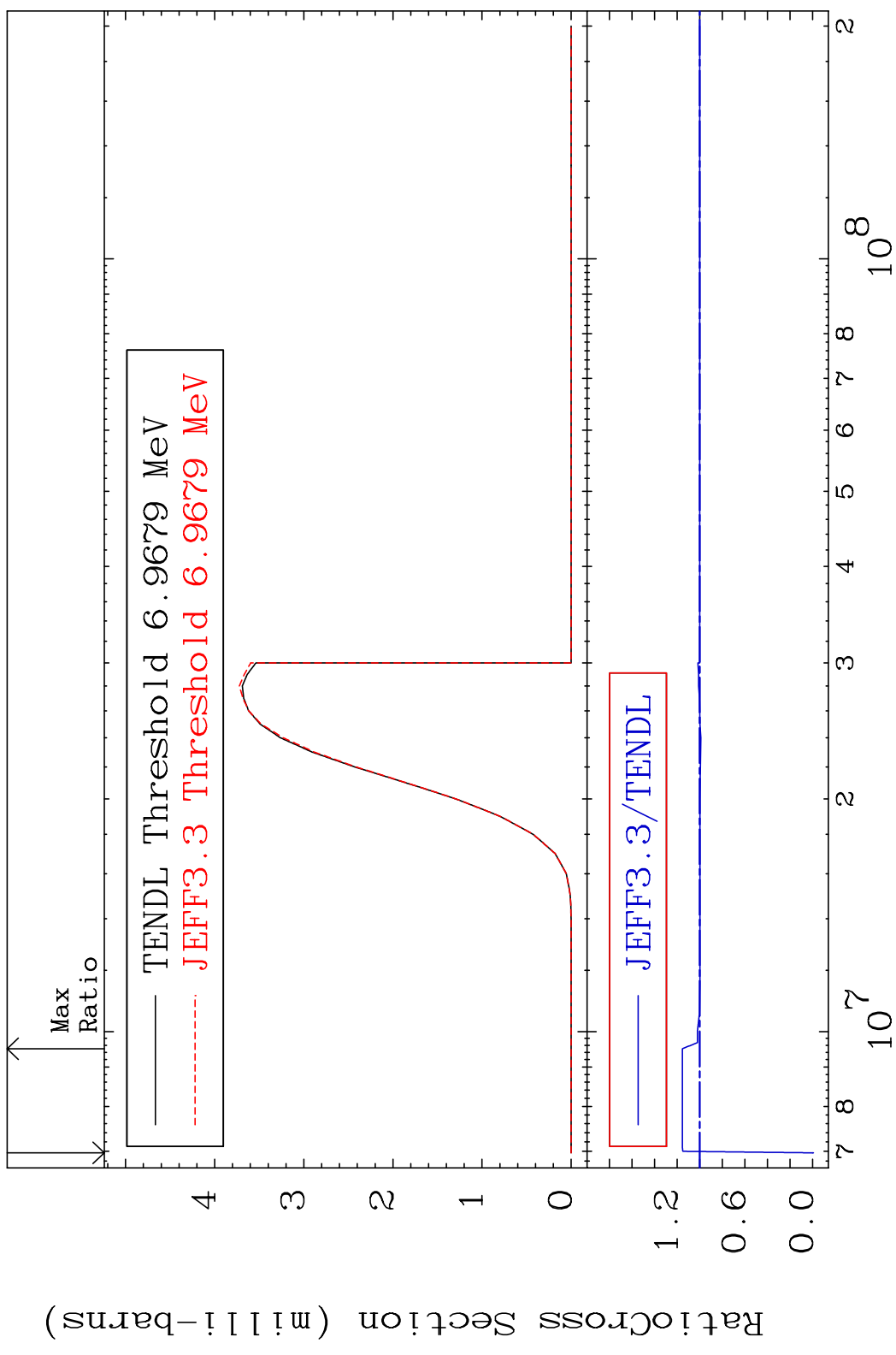


MAT 6849

(n, t)

68-Er-170

Cross Section -100.0 To 15.39 %

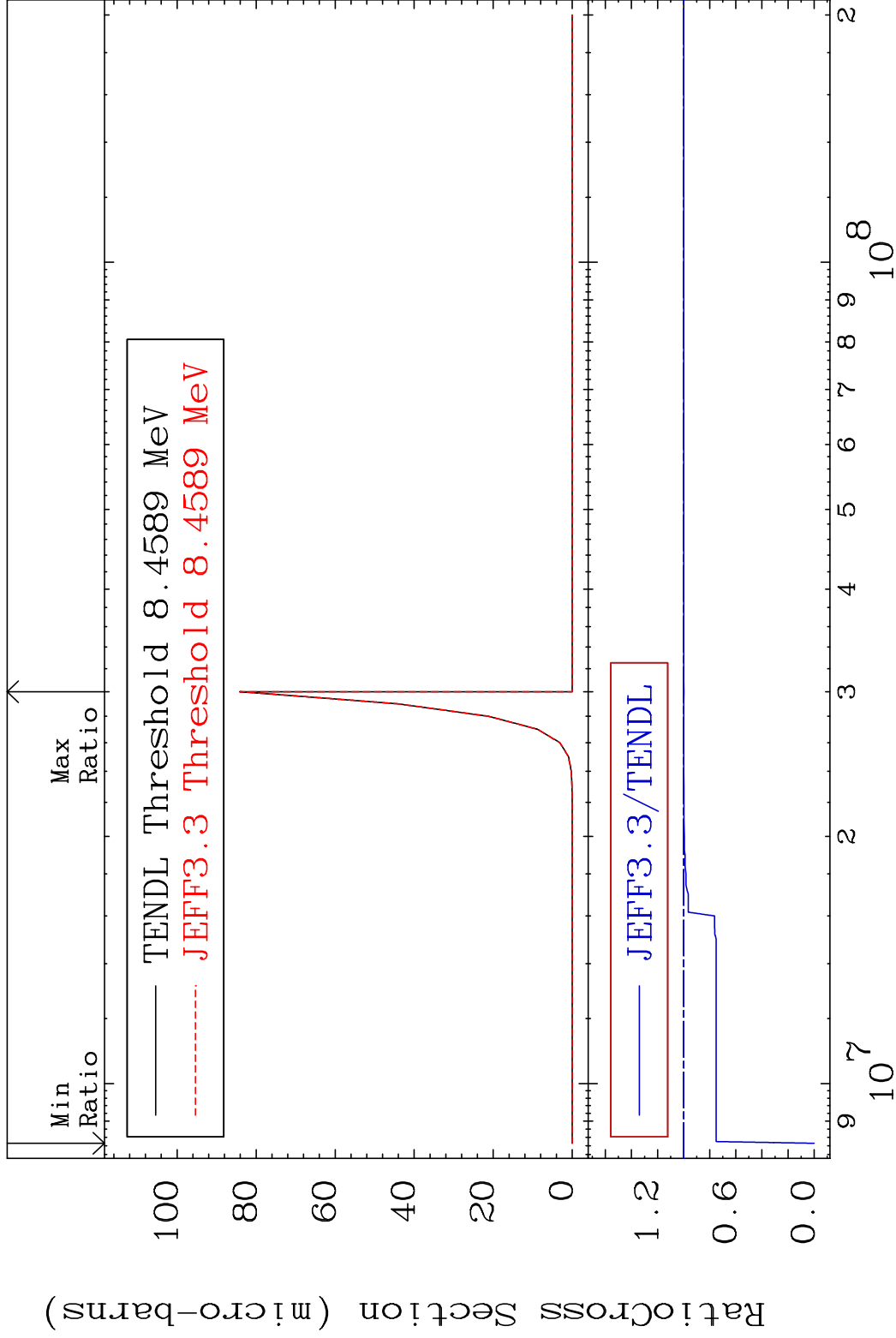


MAT 6849

(n, He-3)

68-Er-170

Cross Section -100.0 To 0.000 %



39

Incident Energy (eV)

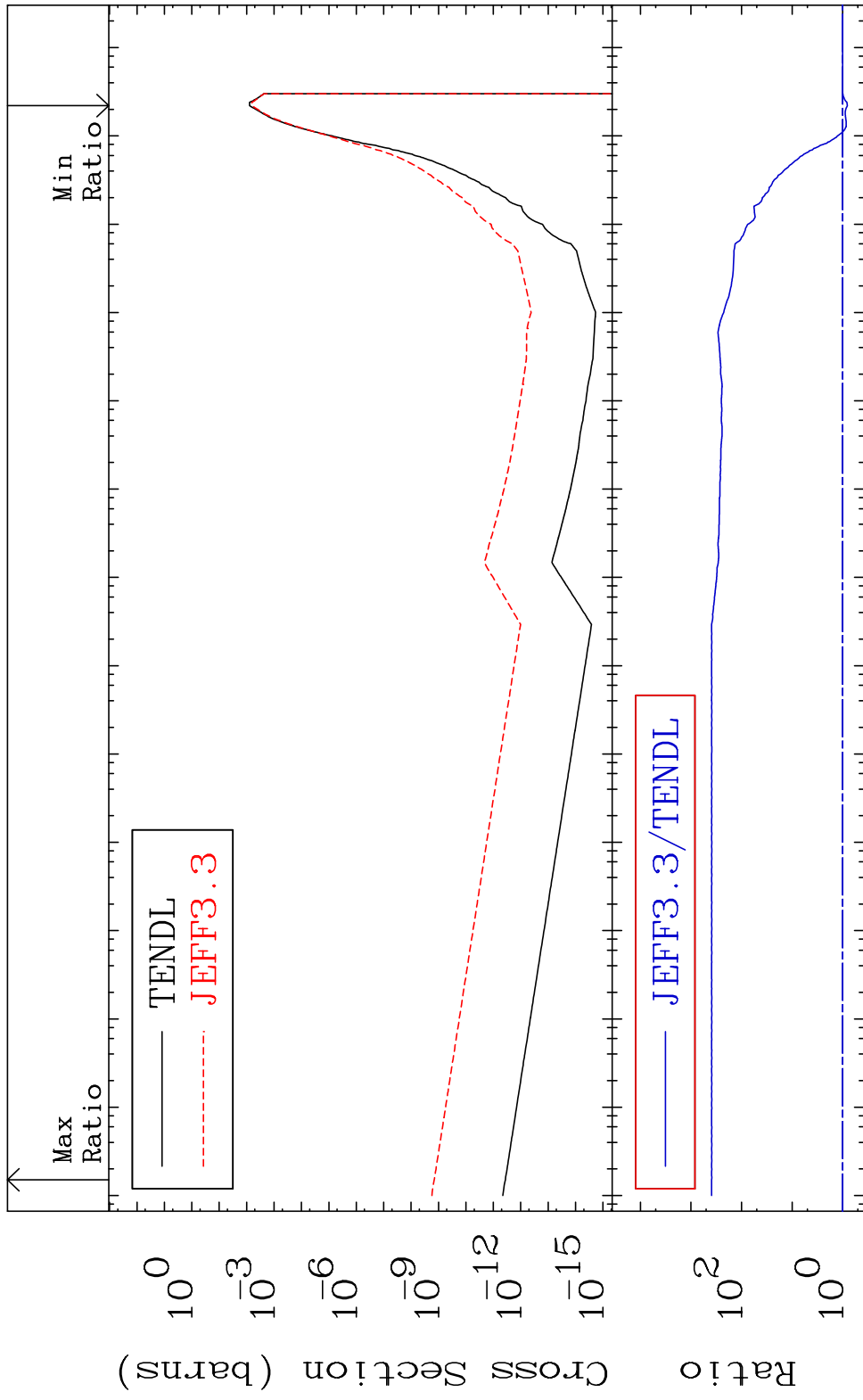
68-Er-170

MAT 6849

(n, α)

68-Er-170

Cross Section -18.96 To 9999. %

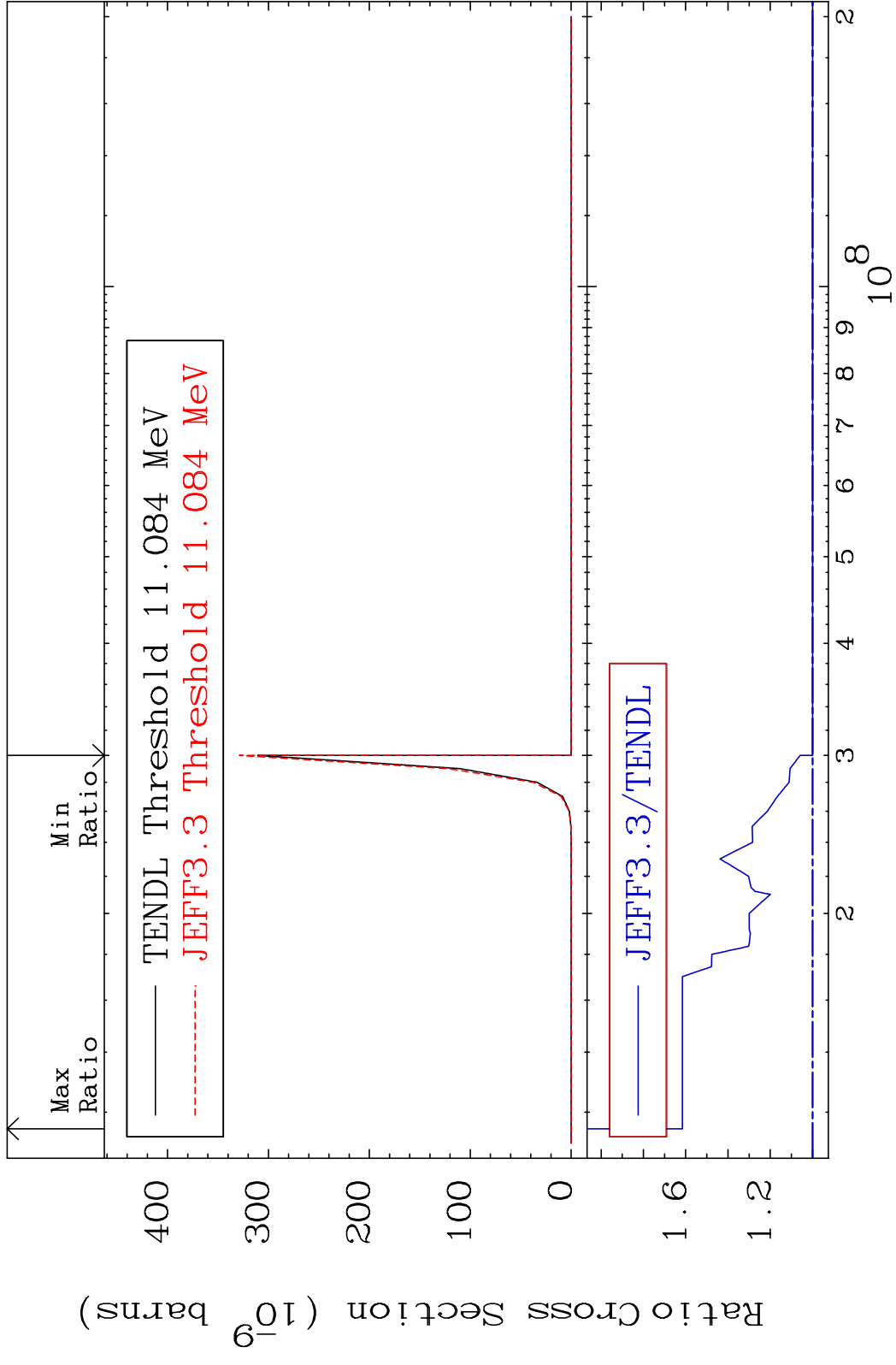


40

Incident Energy (eV)

68-Er-170

MAT 6849 (n,2p) 68-Er-170
 Cross Section 0.000 To 61.58 %

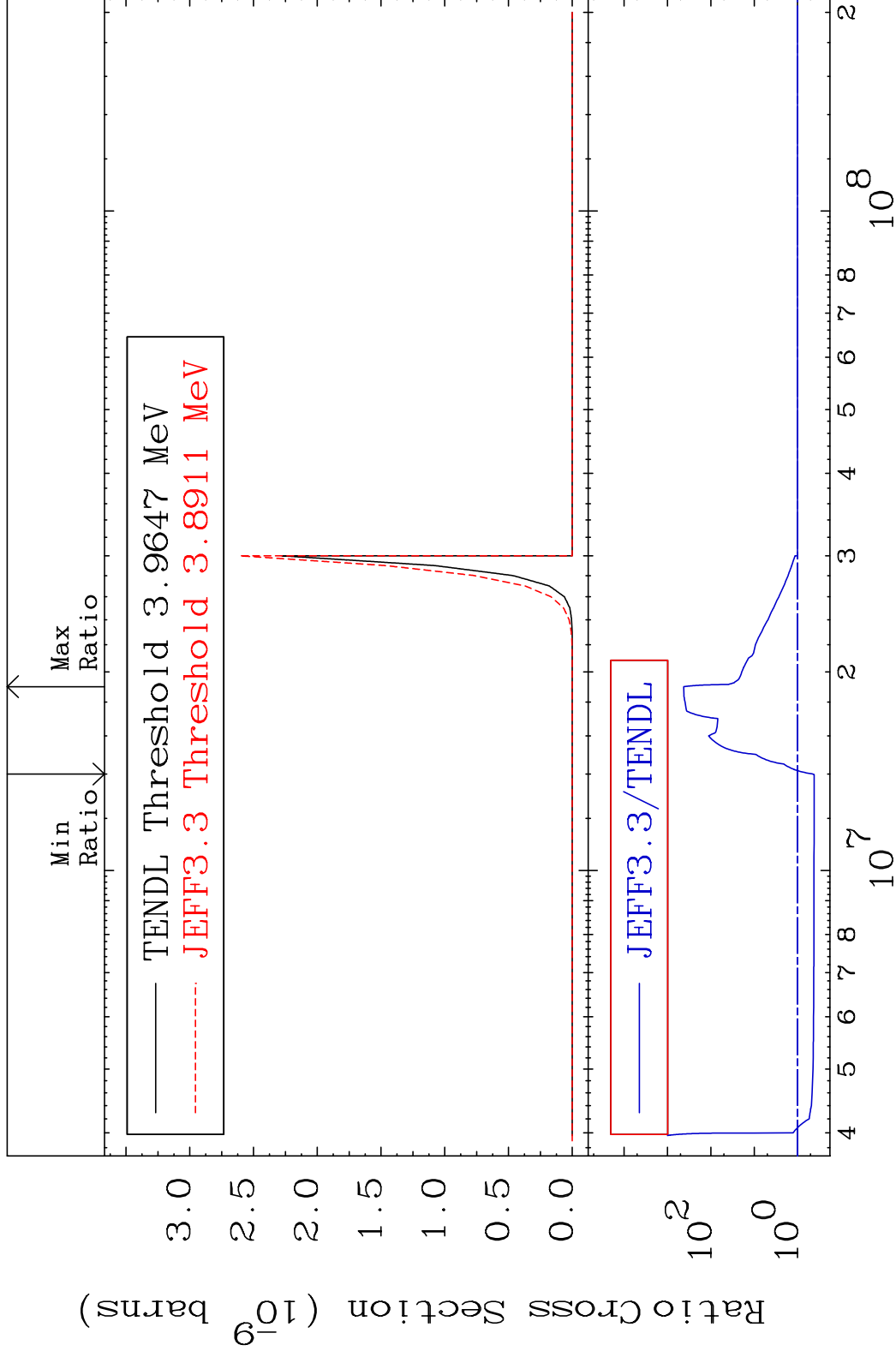


MAT 6849

(n,p) α

68-Er-170

Cross Section -58.49 To 9999. %



42

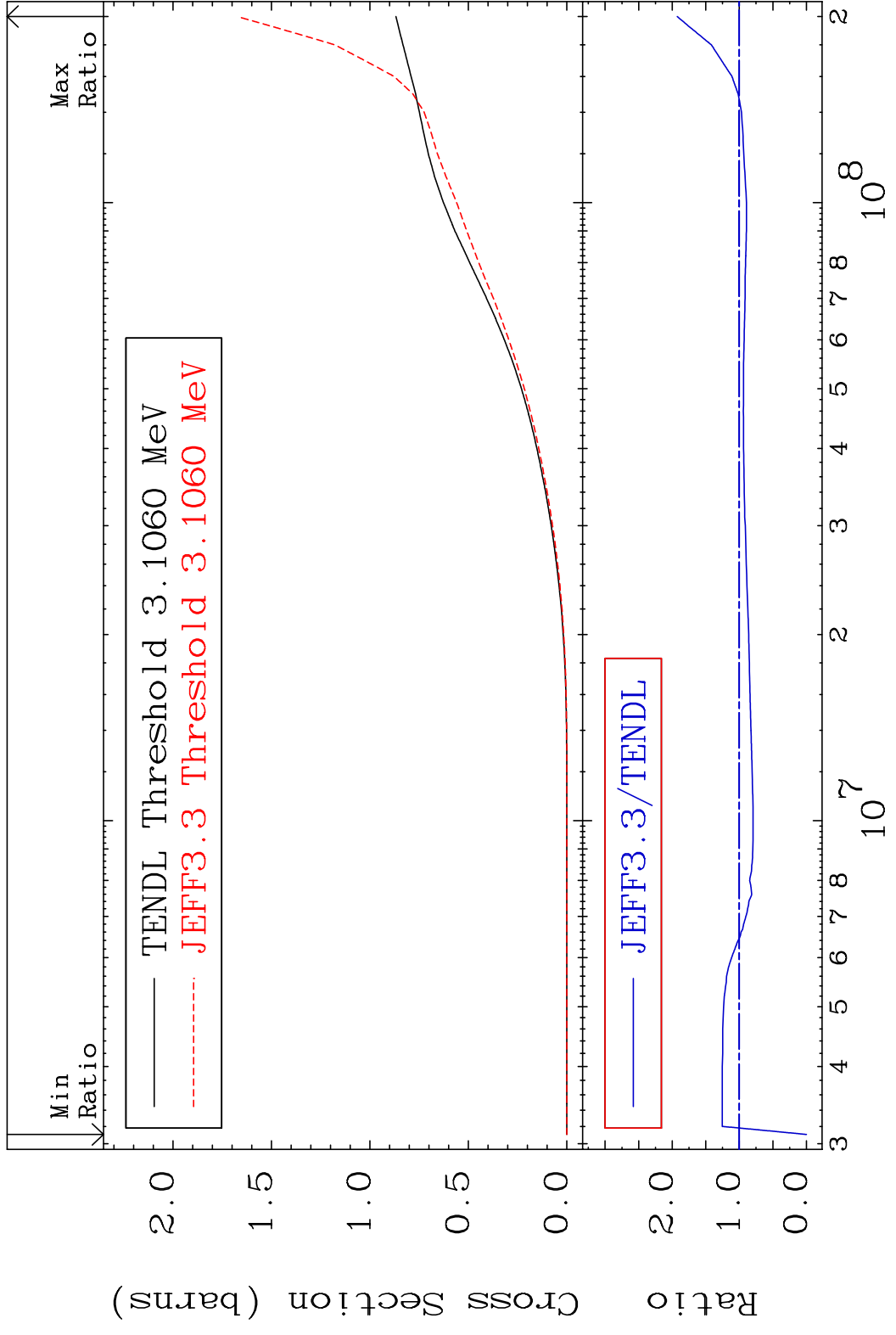
Incident Energy (eV)

68-Er-170

MAT 6849

Hydrogen Production
Cross Section -100.0 To 92.59 %

68-Er-170

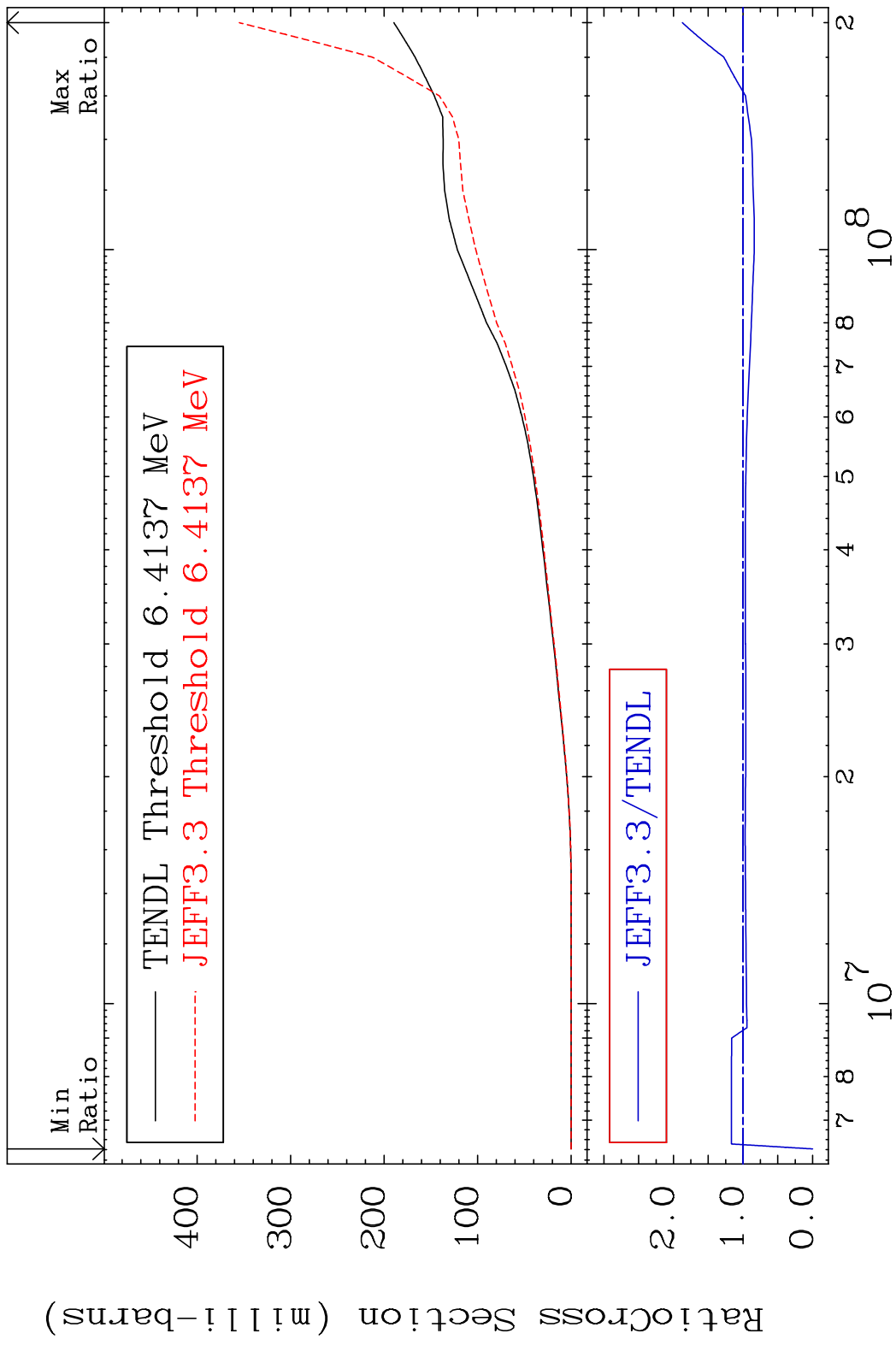


43

Incident Energy (eV)

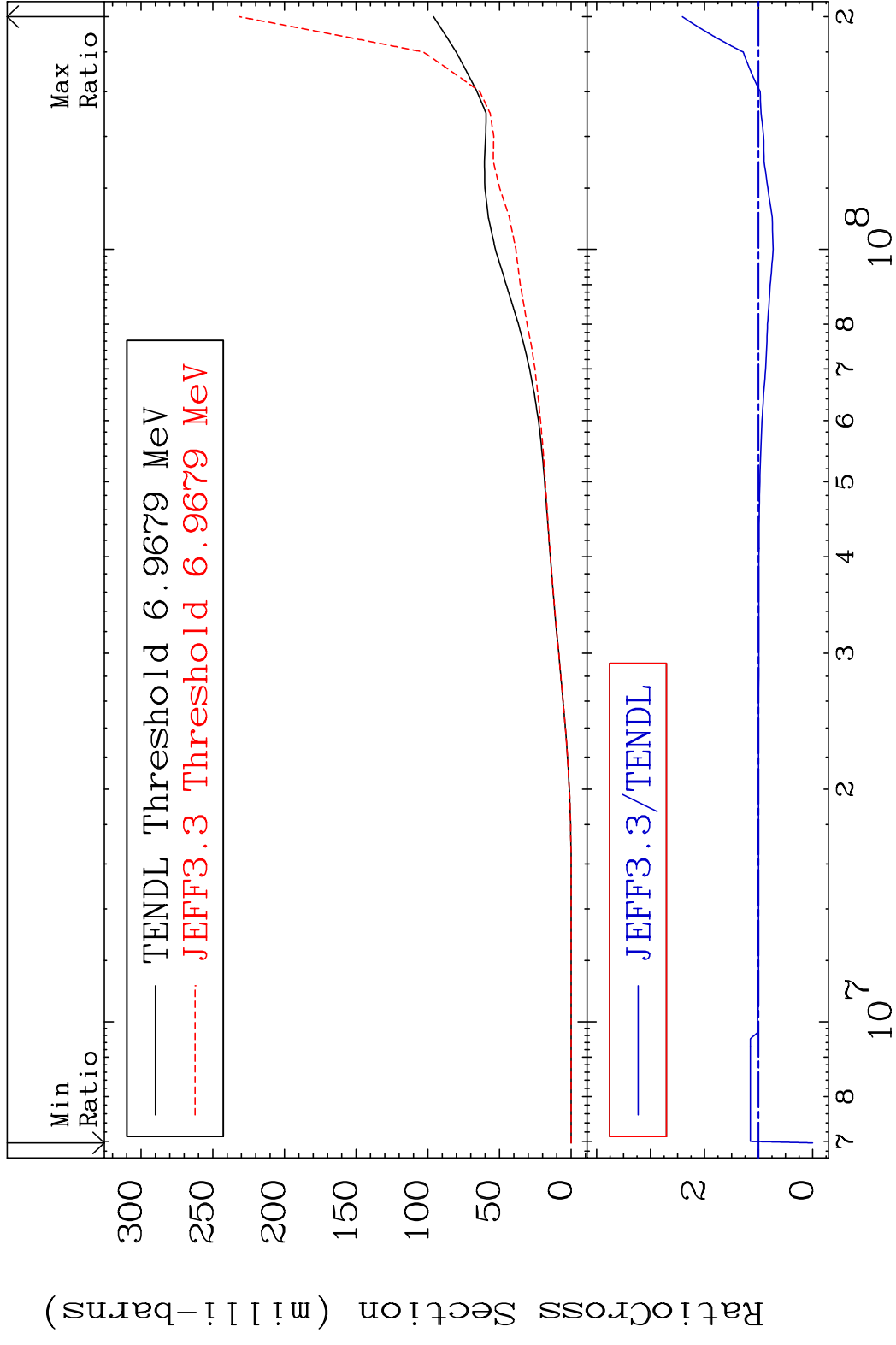
68-Er-170

MAT 6849 Deuterium Production 68-Er-170
 Cross Section -100.0 To 87.20 %



44 Incident Energy (eV) 68-Er-170

MAT 6849 Tritium Production 68-Er-170
 Cross Section -100.0 To 141.1 %



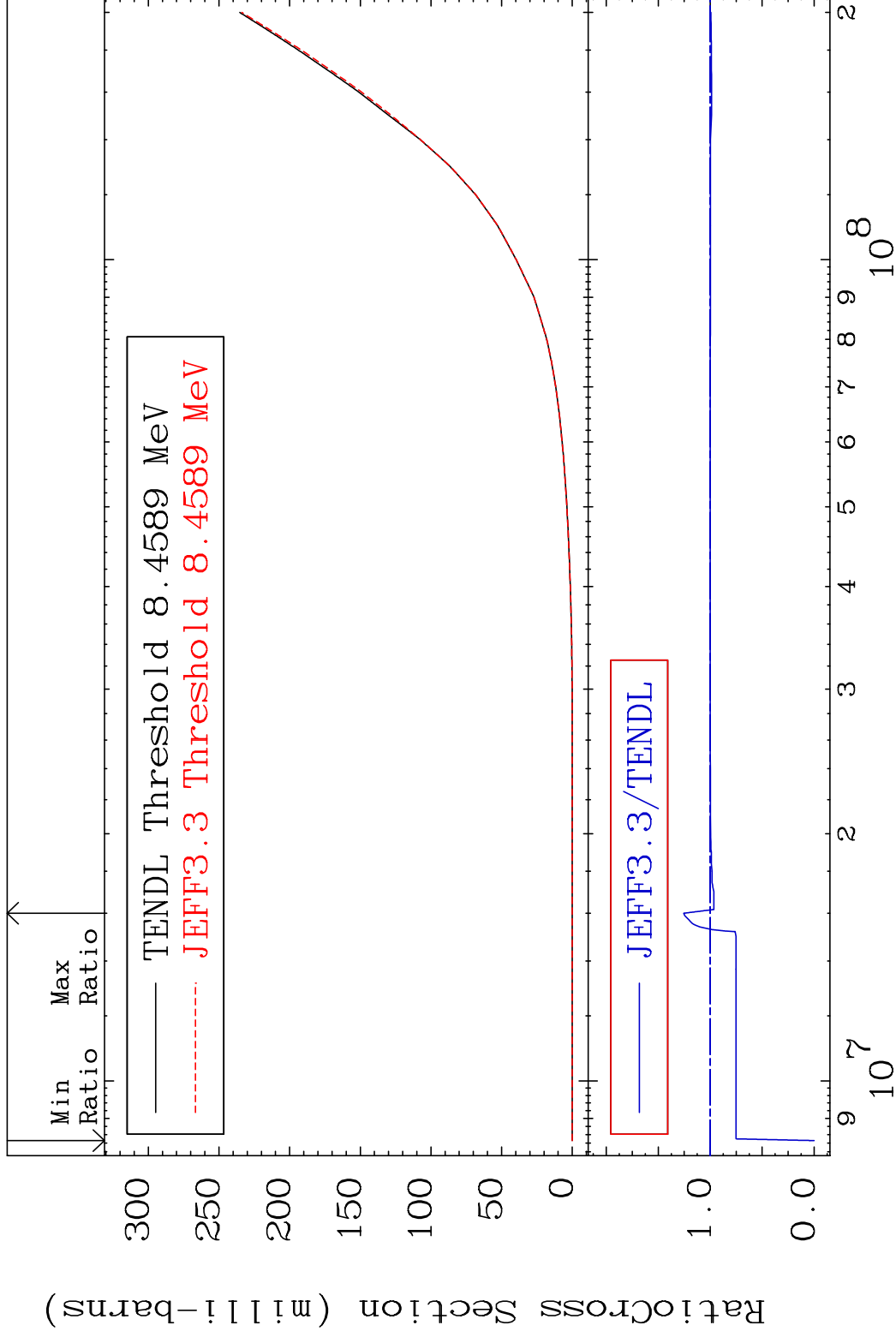
45 Incident Energy (eV) 68-Er-170

MAT 6849

He-3 Production

68-Er-170

Cross Section -100.0 To 25.55 %



46

Incident Energy (eV)

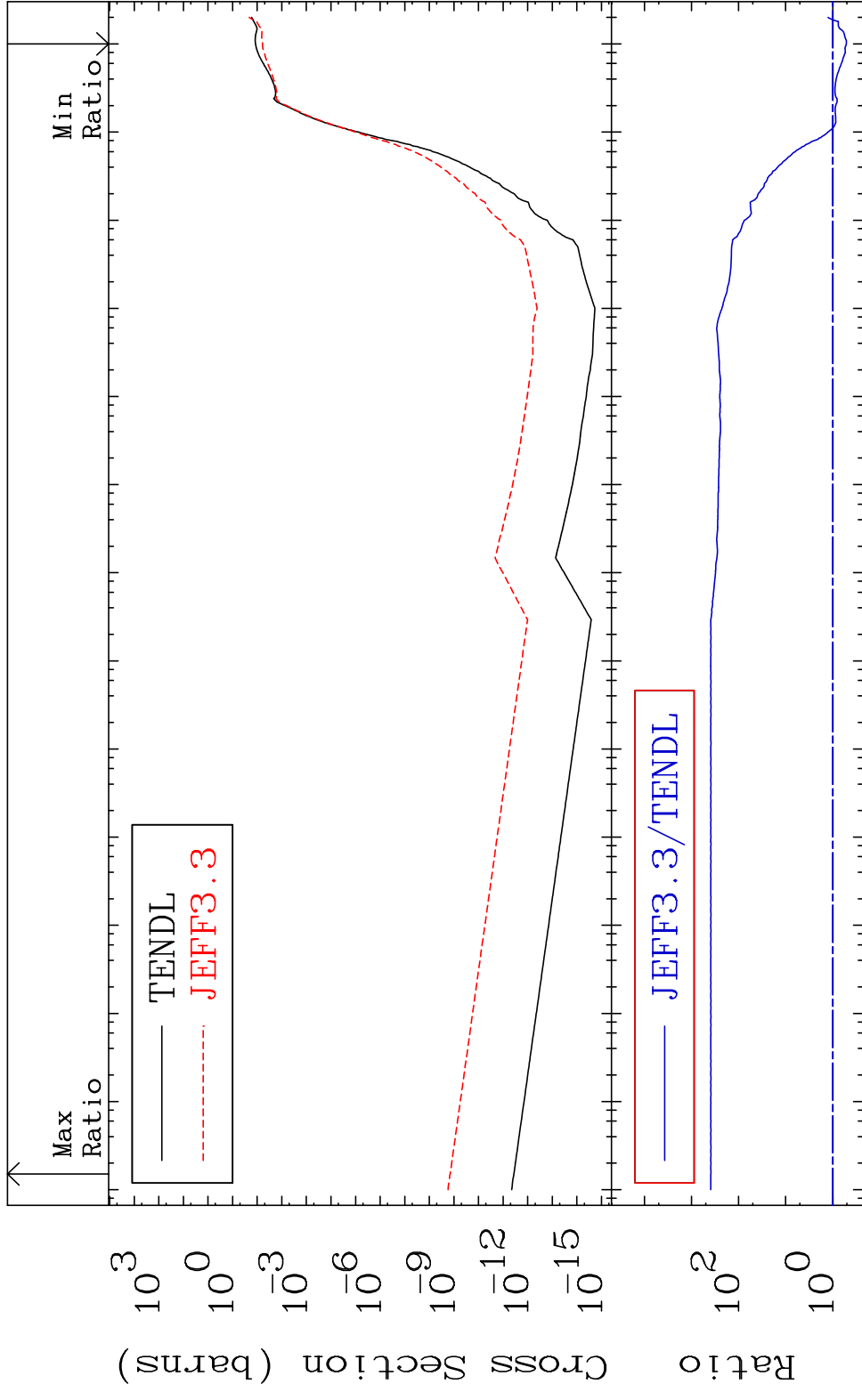
68-Er-170

MAT 6849

He-4 Production

68-Er-170

Cross Section -48.57 To 9999. %

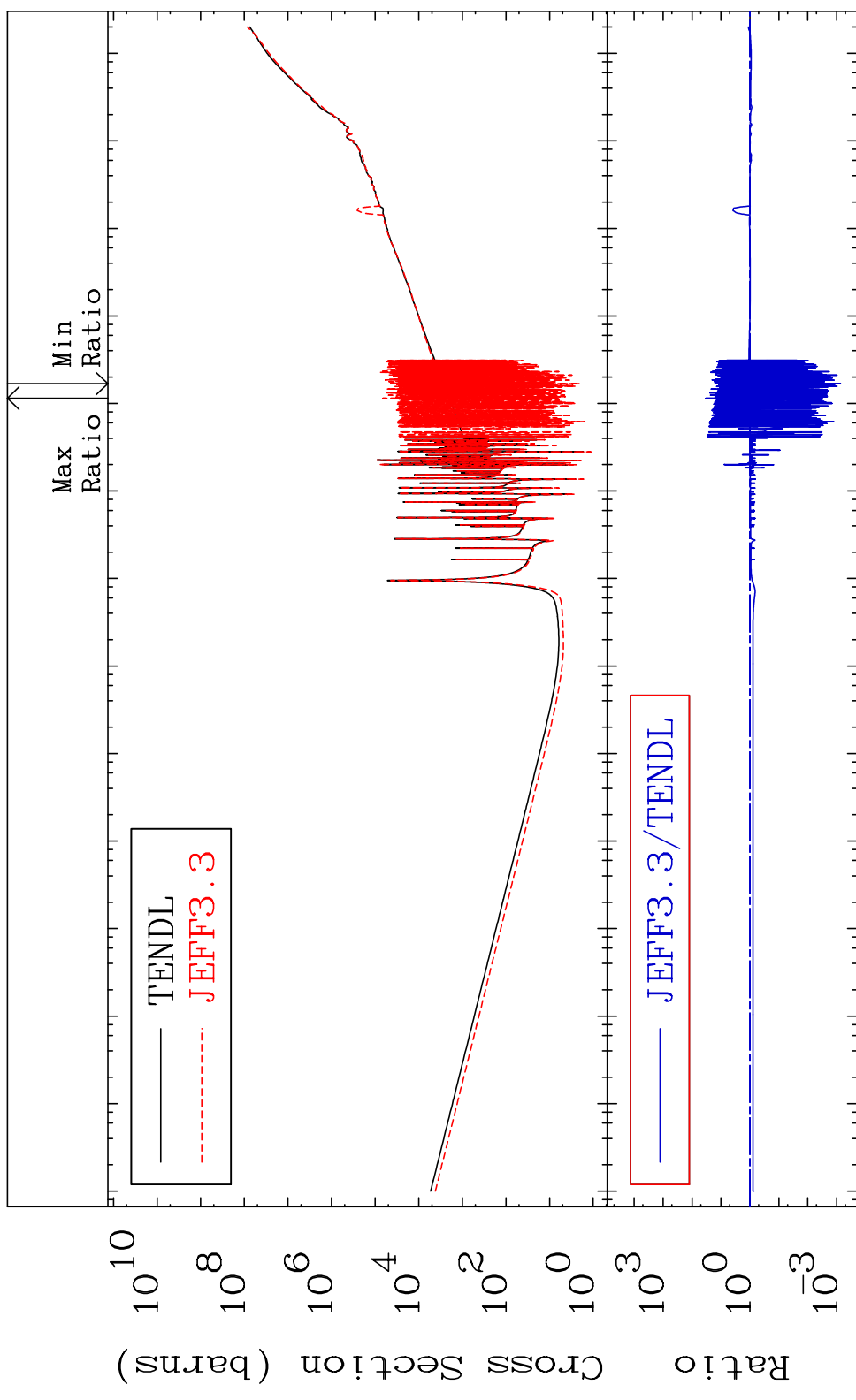


MAT 6849

Kerma total (eV-barns)

68-Er-170

Cross Section -99.93 To 3257. %



48

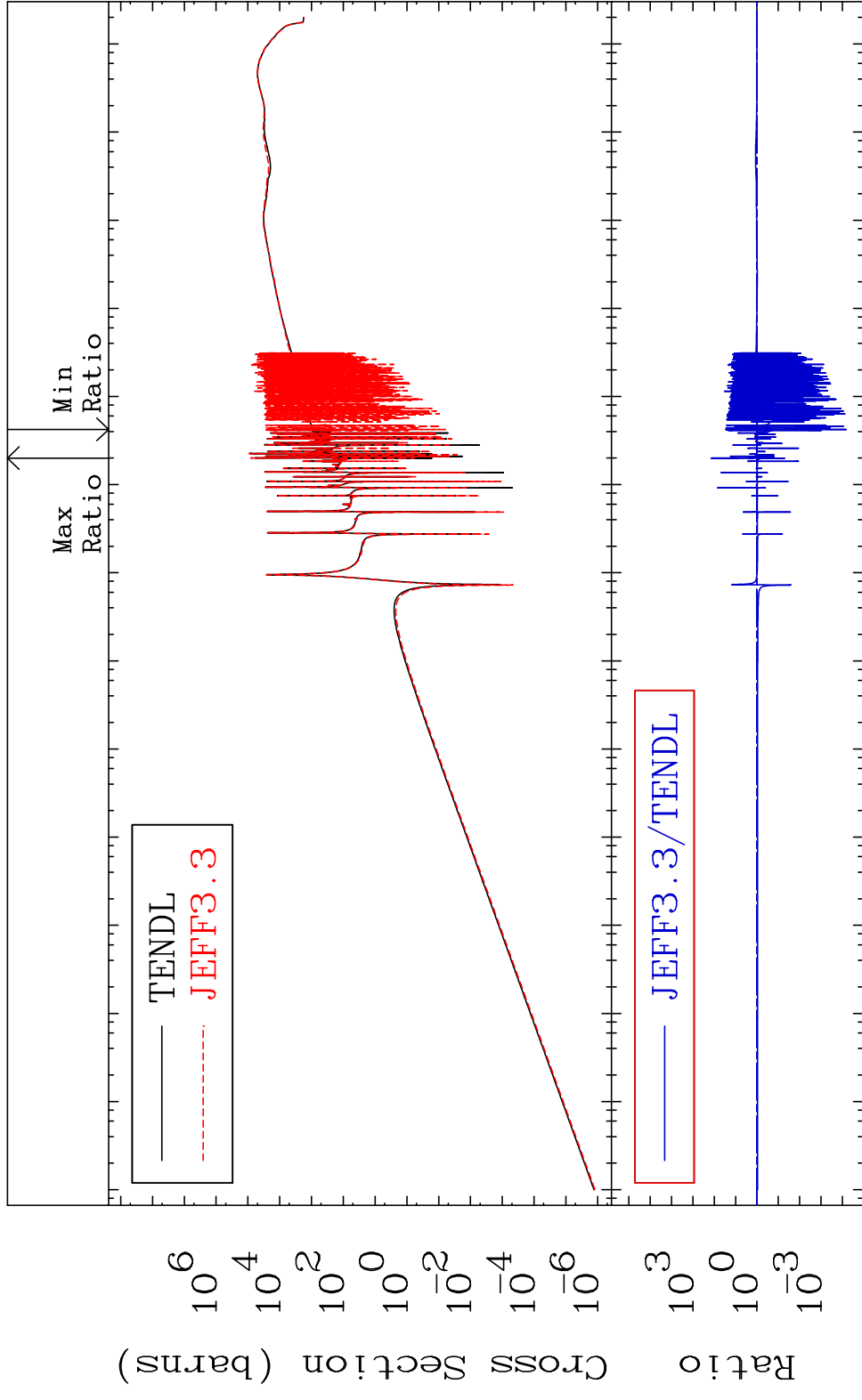
Incident Energy (eV)

68-Er-170

MAT 6849

Kerma elastic
Cross Section

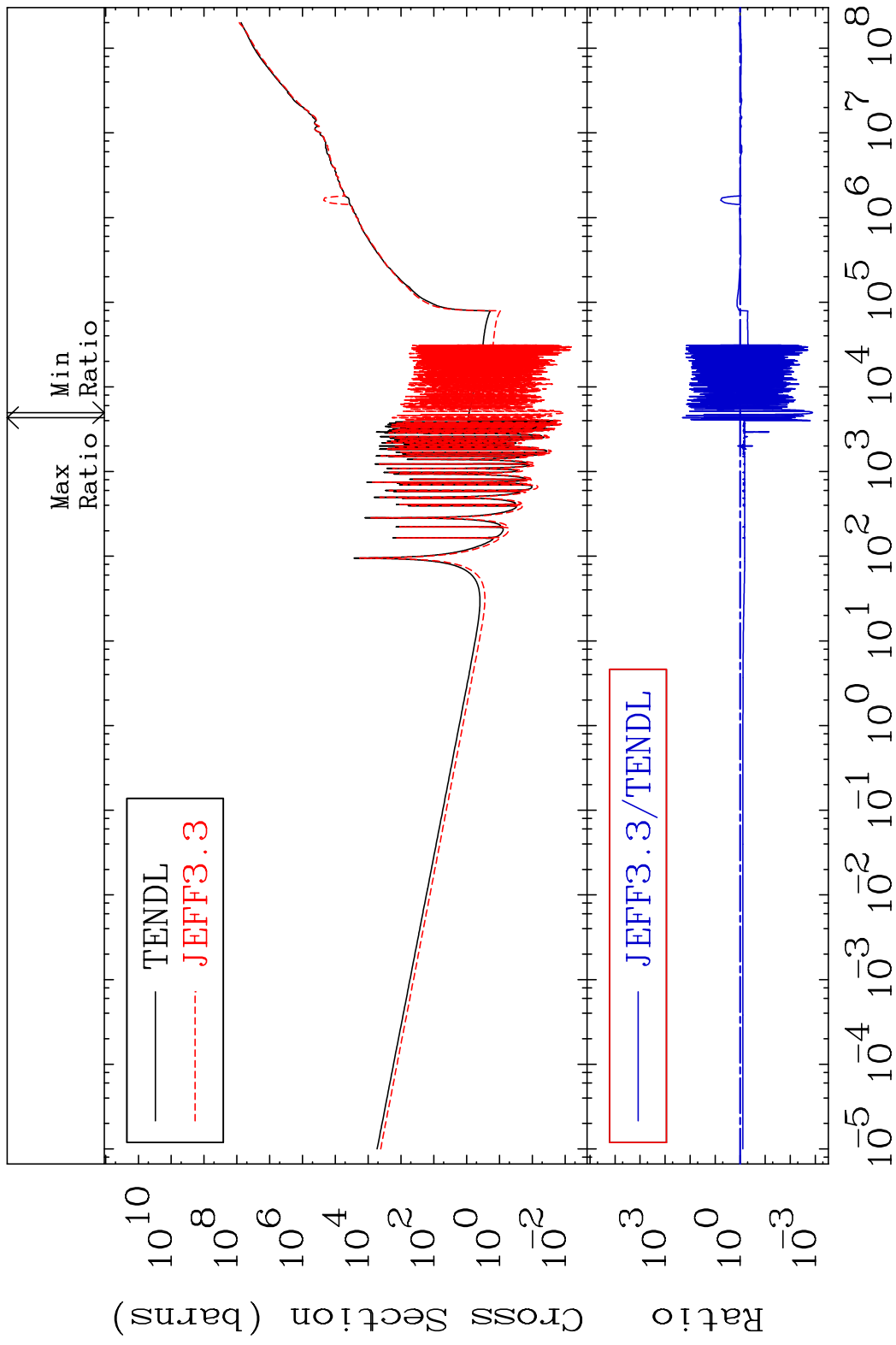
68-Er-170
-99.99 To 9999. %



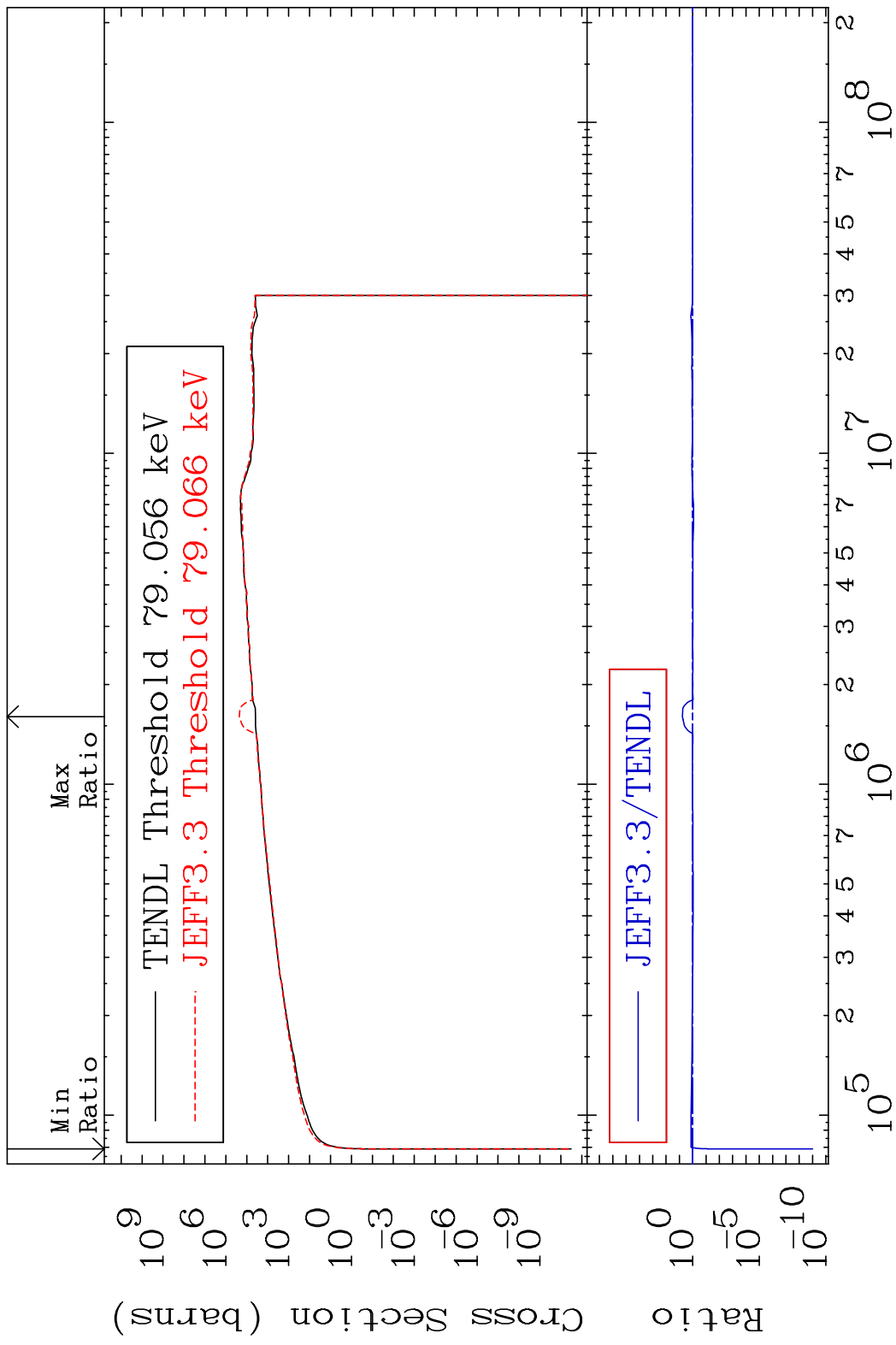
Cross Section (barns)
 10^6
 10^4
 10^2
 10^0
 10^{-2}
 10^{-4}
 10^{-6}
Ratio
 10^3
 10^0
 10^{-3}

Incident Energy (eV)
 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

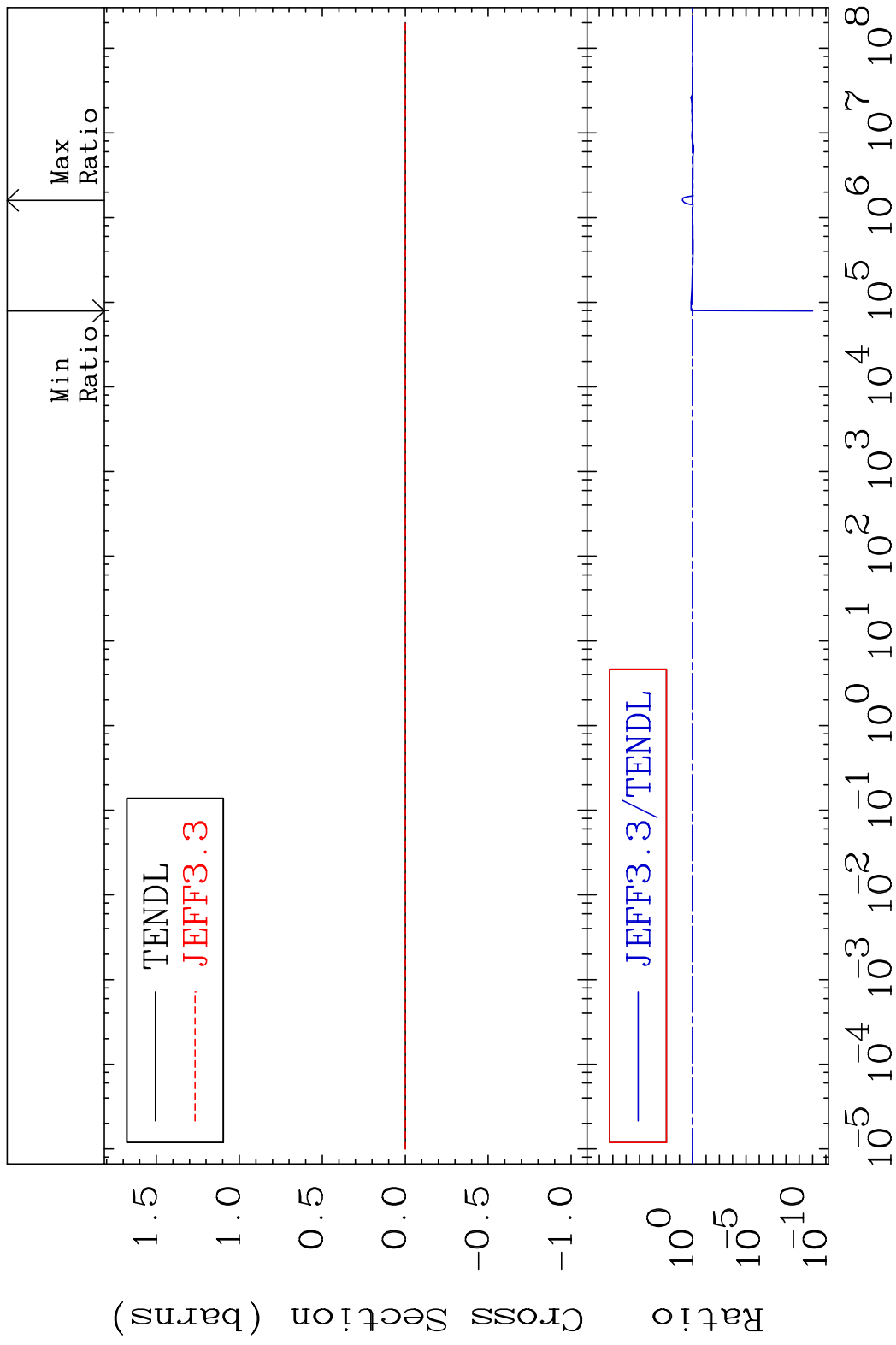
MAT 6849 Kerma non-elastic (all but mt2) 68-Er-170
 Cross Section -99.87 To 9999. %



MAT 6849 Kerma inelastic (mt51-91) 68-Er-170
 Cross Section -100.0 To 498.1 %



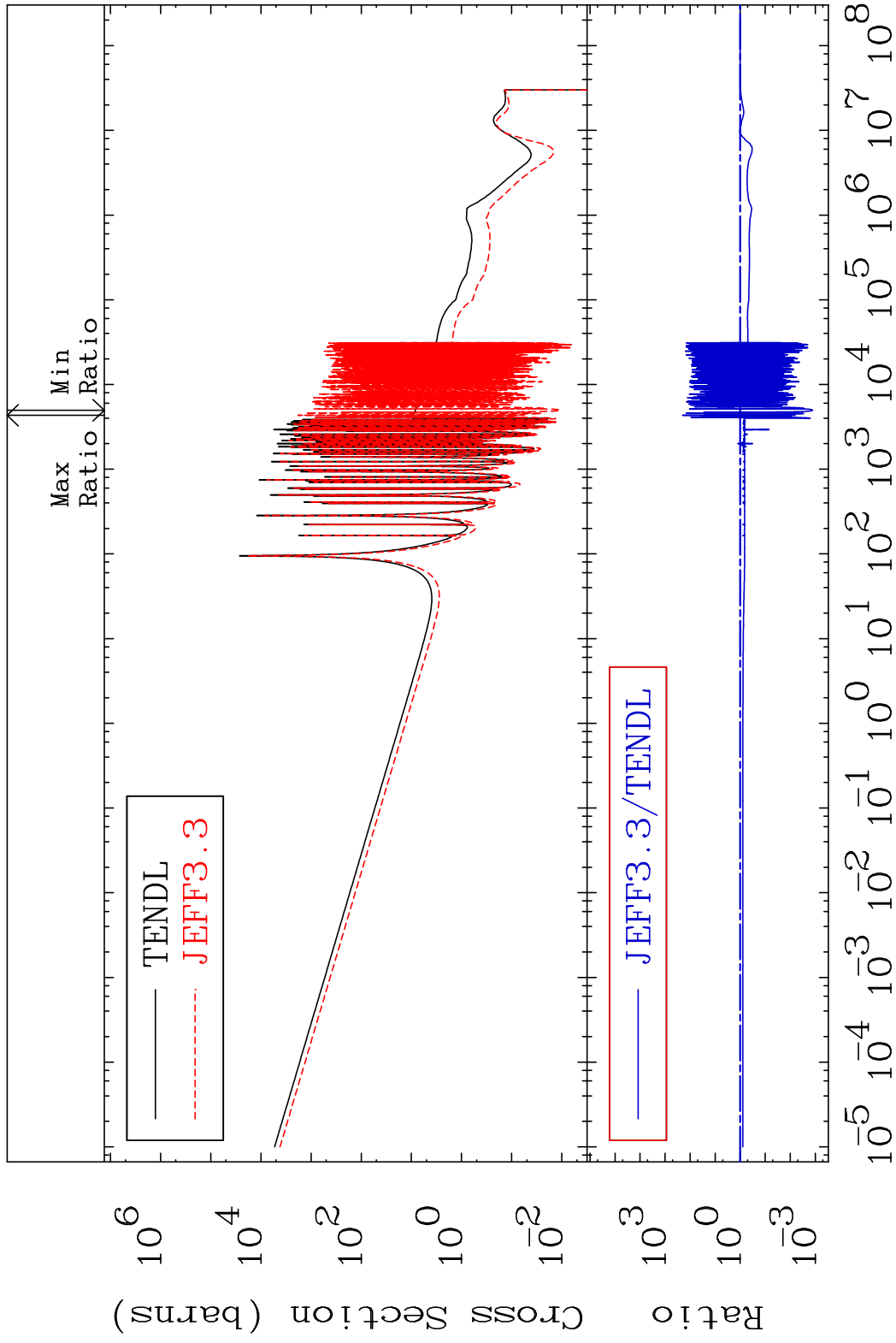
MAT 6849 Kerma fission (mt18 or mt19-20-21-38) 68-Er-170
 Cross Section -100.0 To 498.1 %



MAT 6849

Kerma capture (mt102) 68-Er-170

Cross Section -99.87 To 9999. %



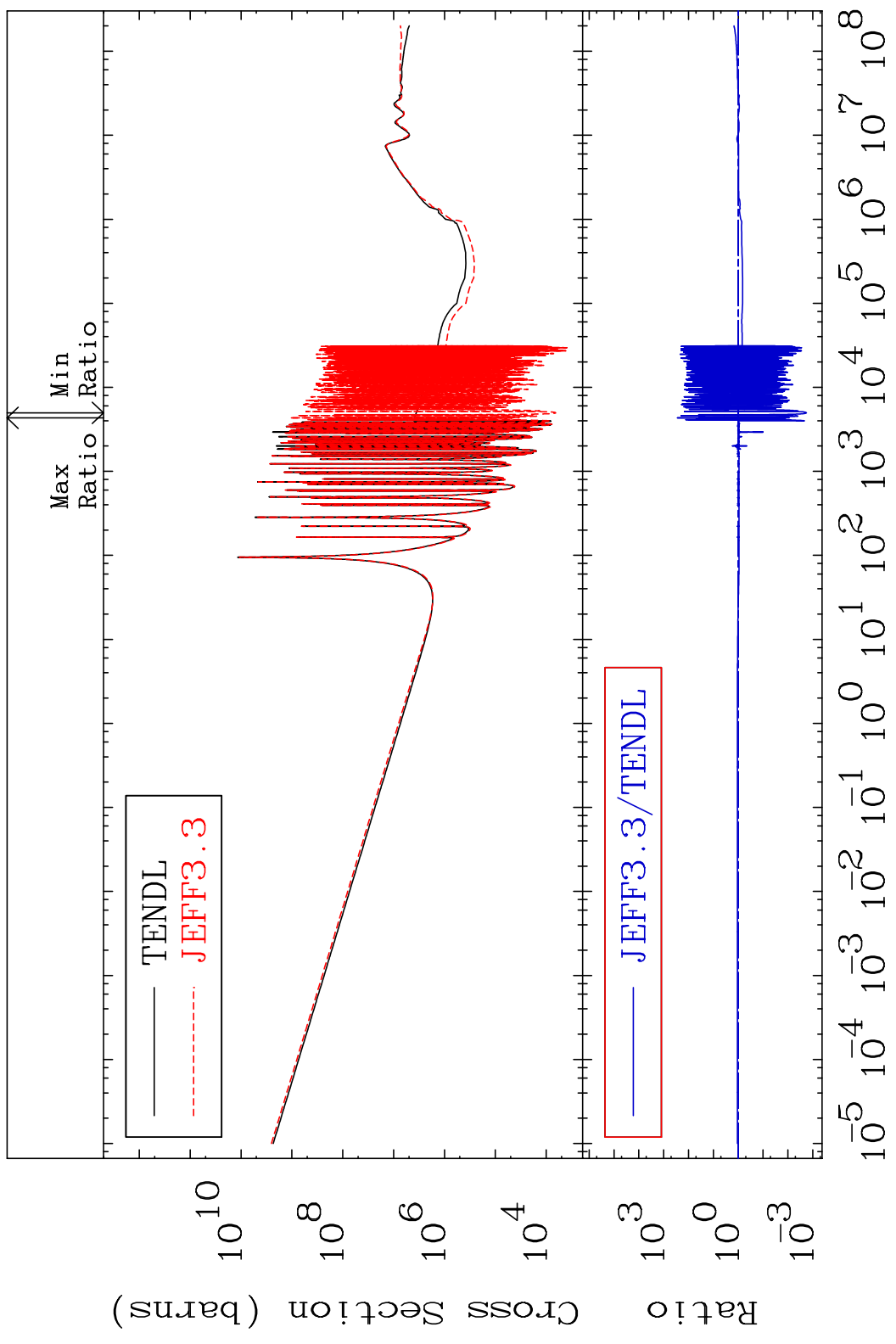
53

Incident Energy (eV)

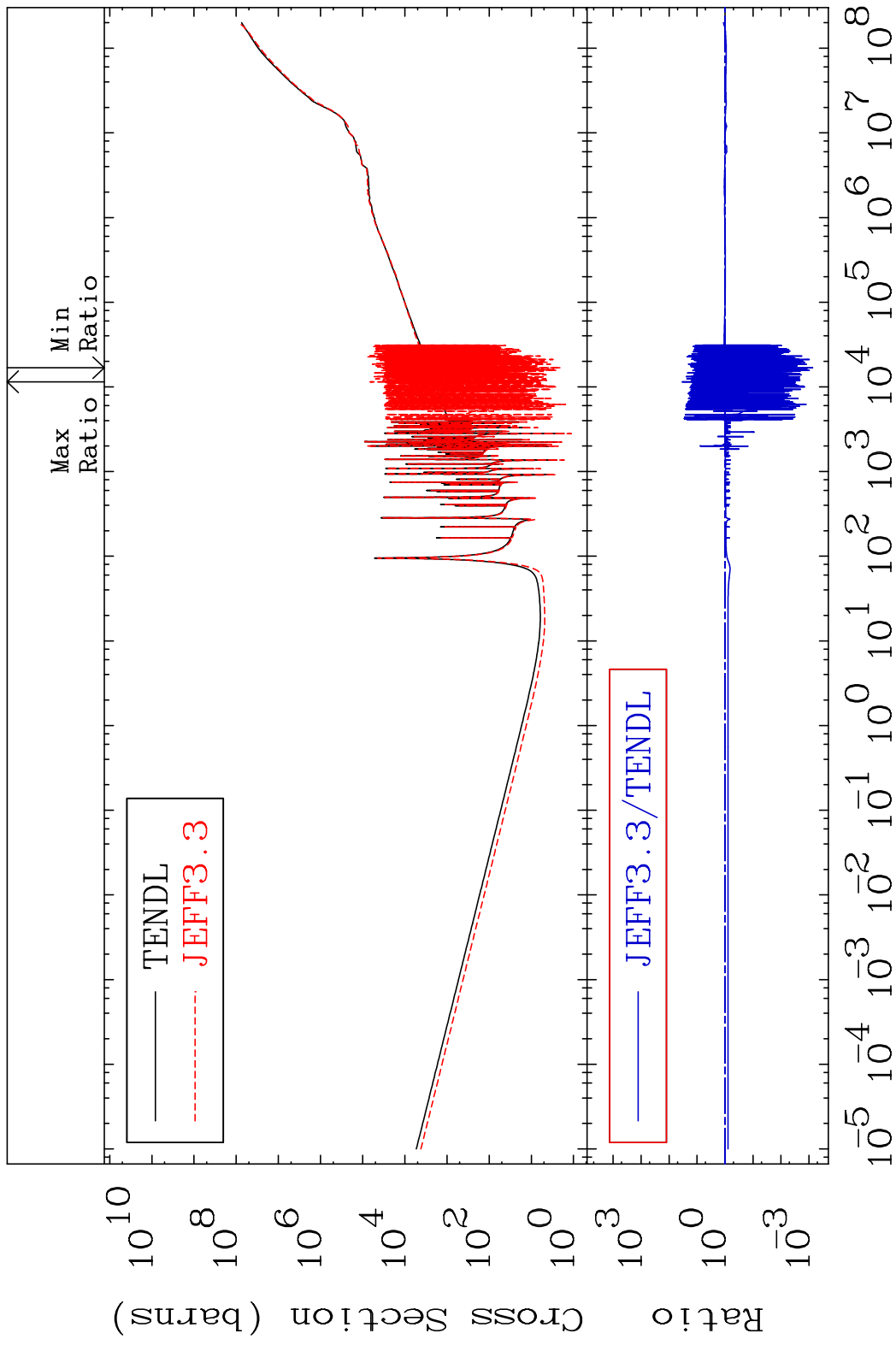
68-Er-170

MAT 6849

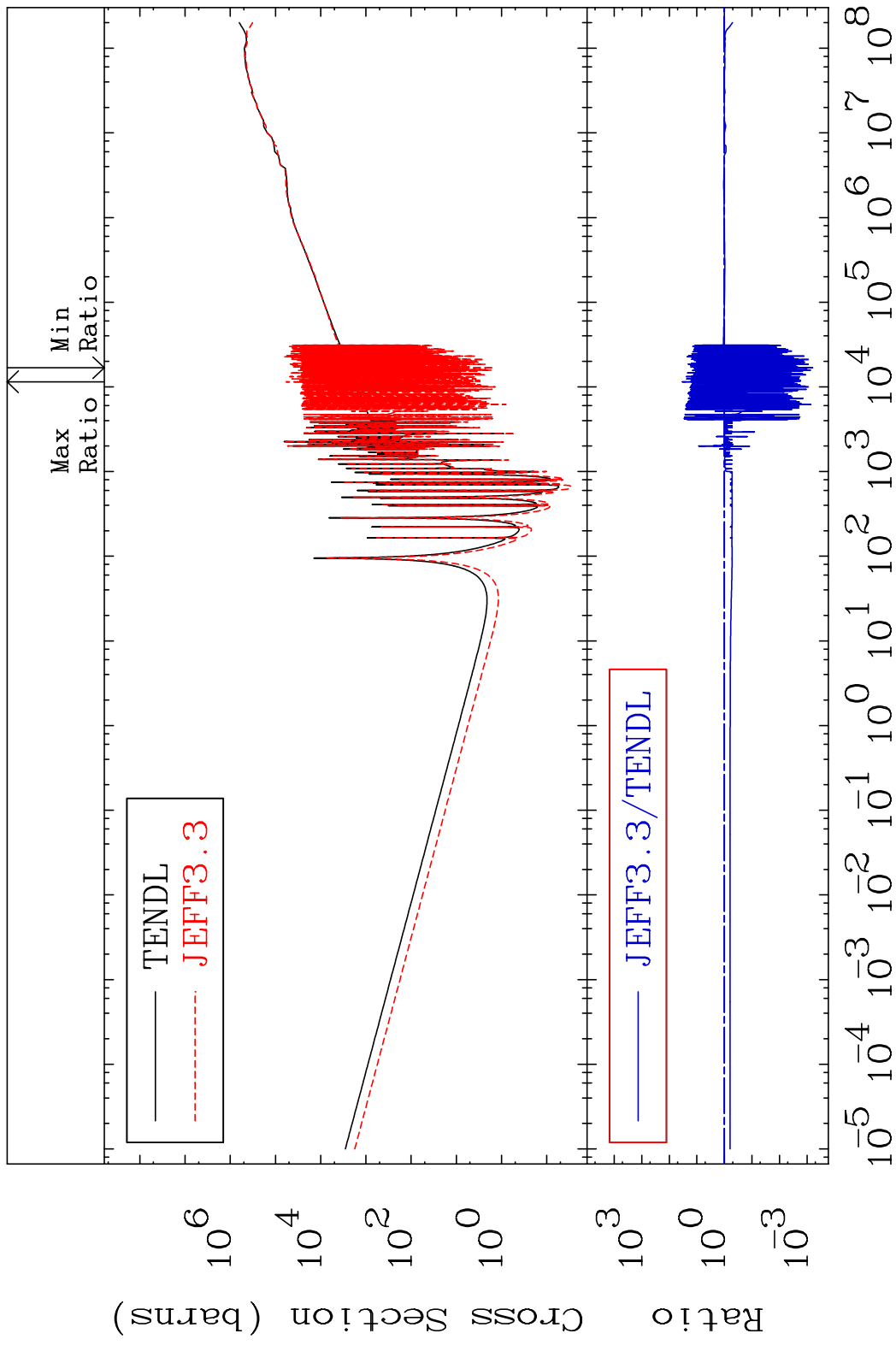
Total photon (eV-barns) 68-Er-170
Cross Section -99.82 To 9999. %



MAT 6849 Total kinematic kerma (high limit) 68-Er-170
 Cross Section -99.93 To 3257. %



MAT 6849 Dpa total (eV-barns) 68-Er-170
 Cross Section -99.94 To 3255. %

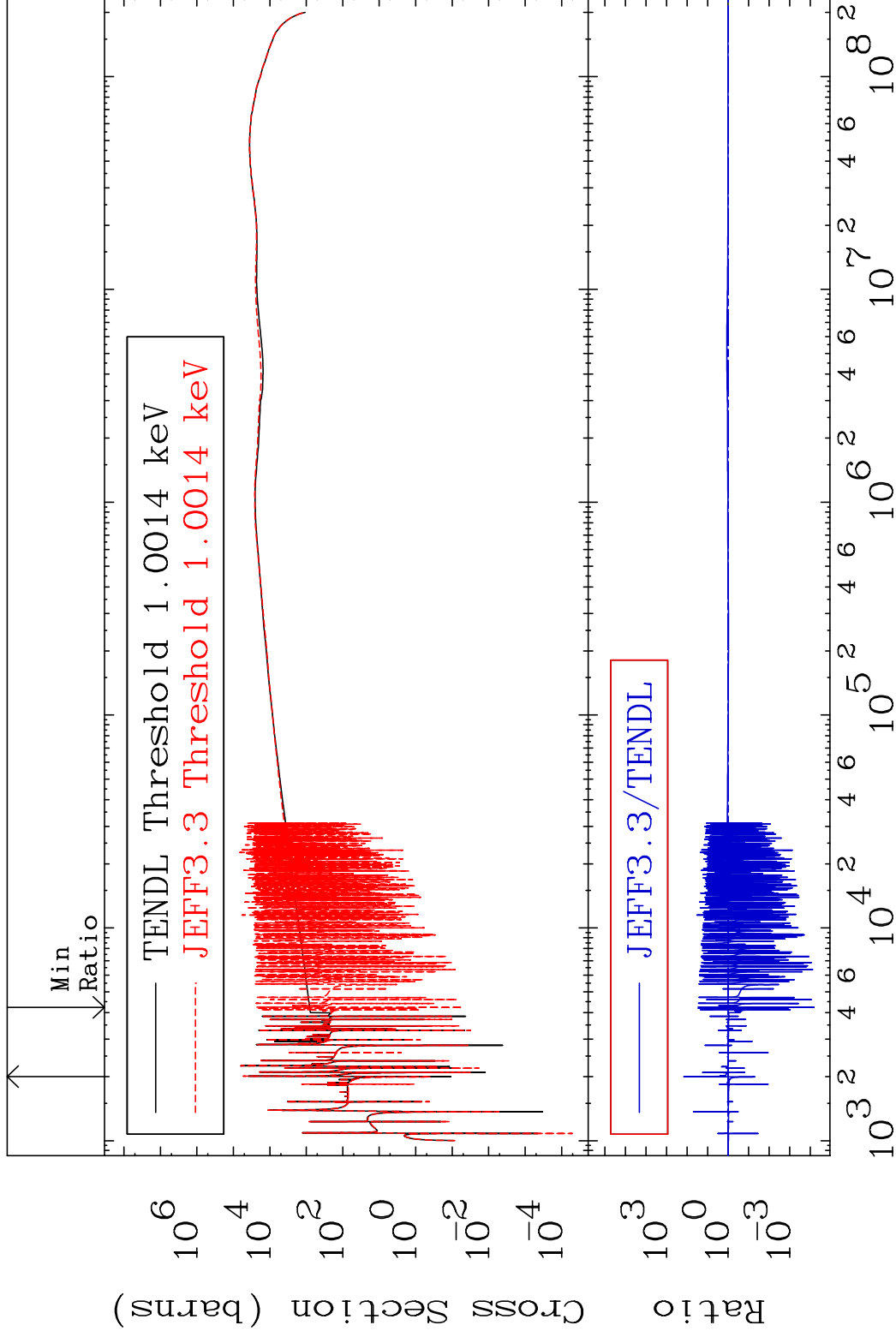


MAT 6849

Dpa elastic (mt2)

68-Er-170

Cross Section -99.99 To 9999. %

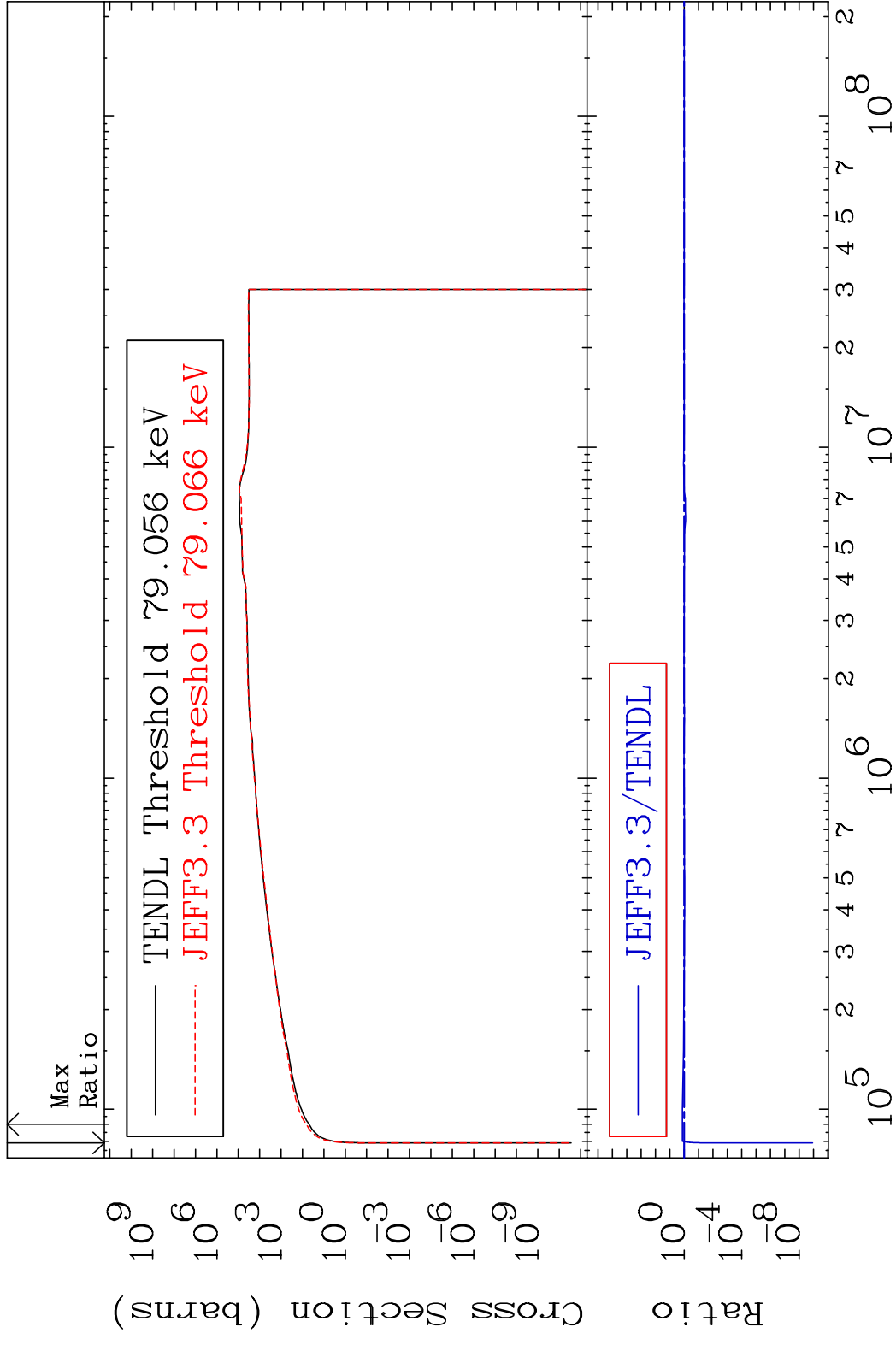


57

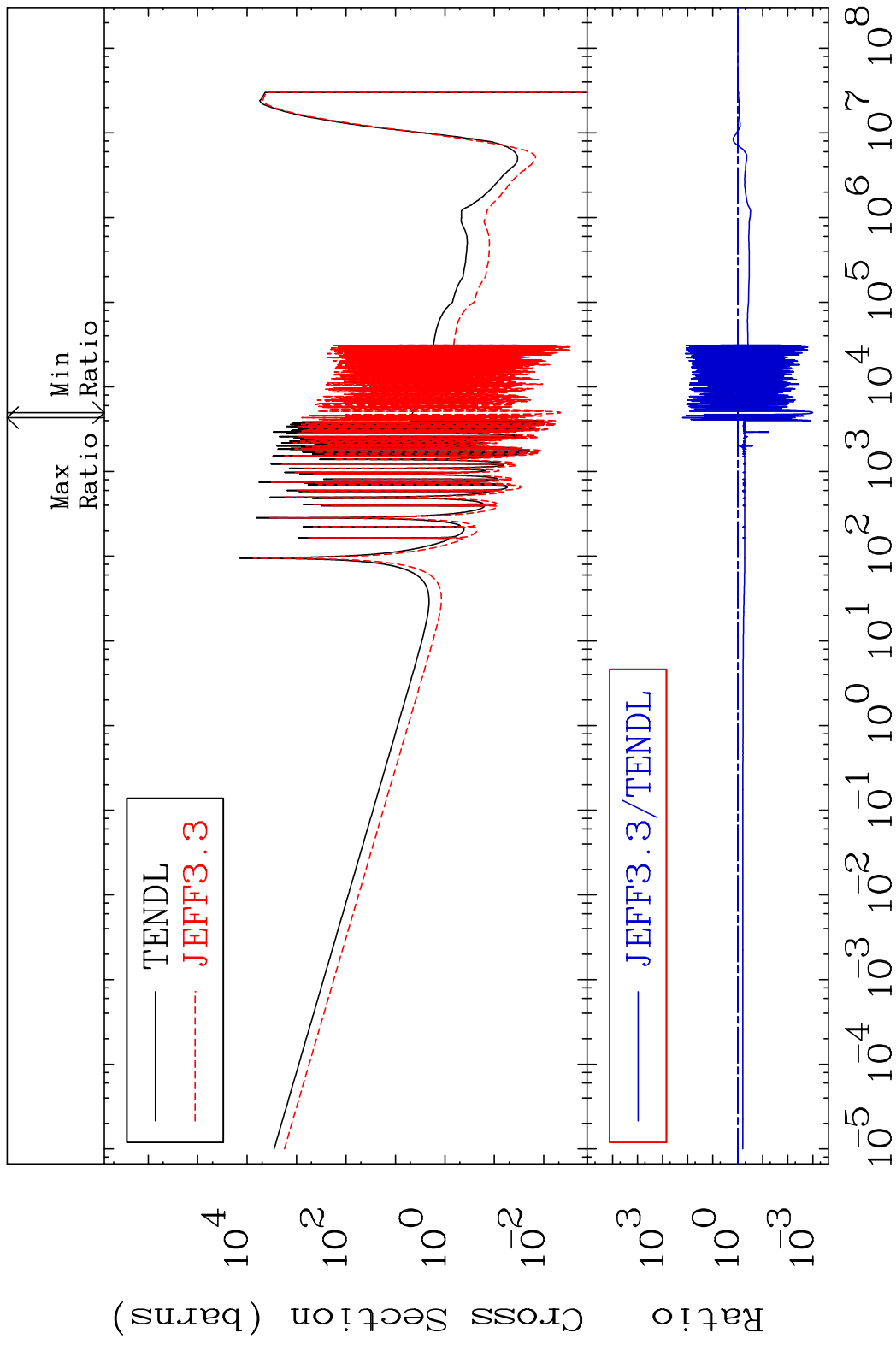
Incident Energy (eV)

68-Er-170

MAT 6849 Dpa inelastic (mt51-91) 68-Er-170
 Cross Section -100.0 To 34.71 %

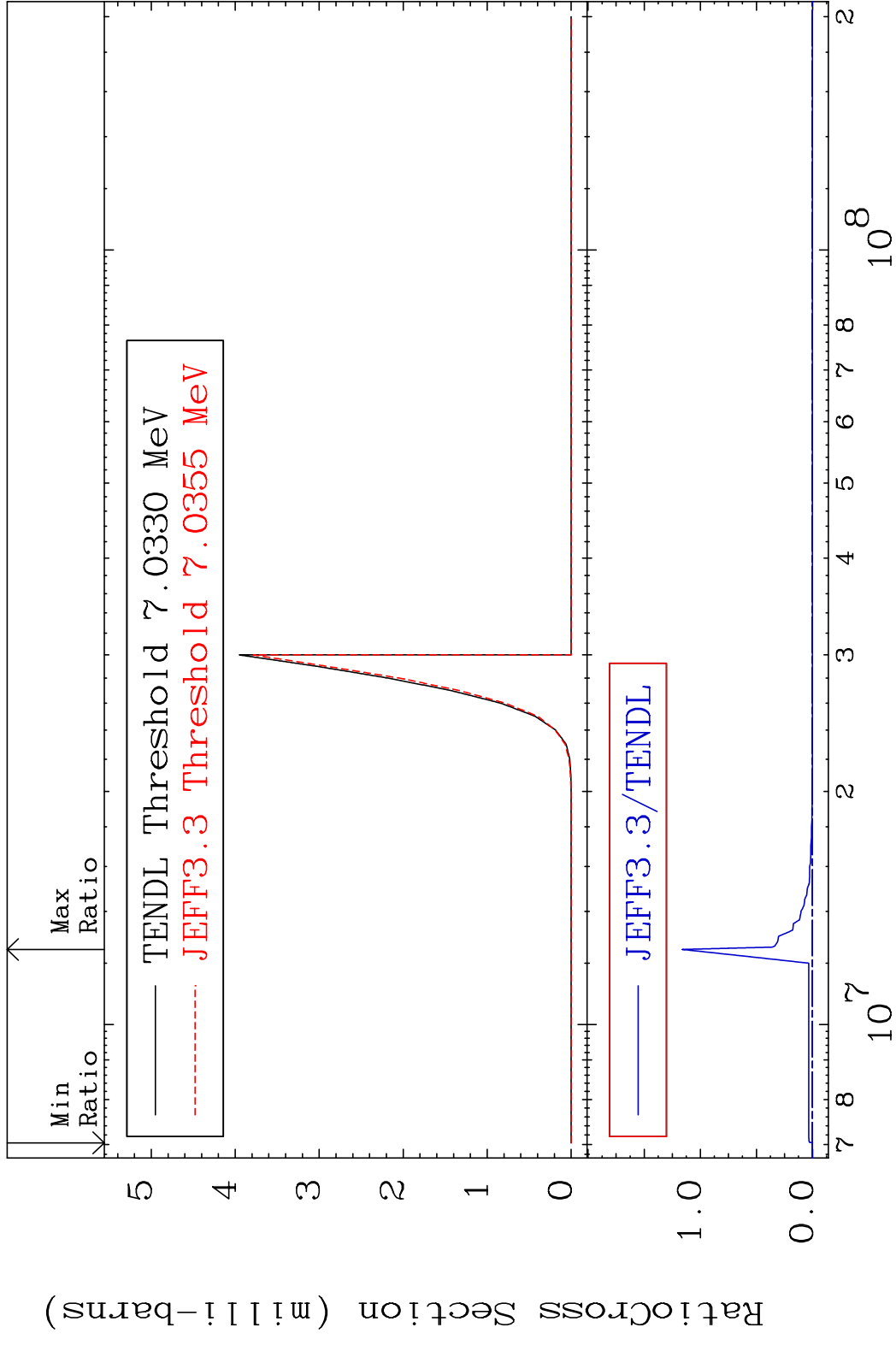


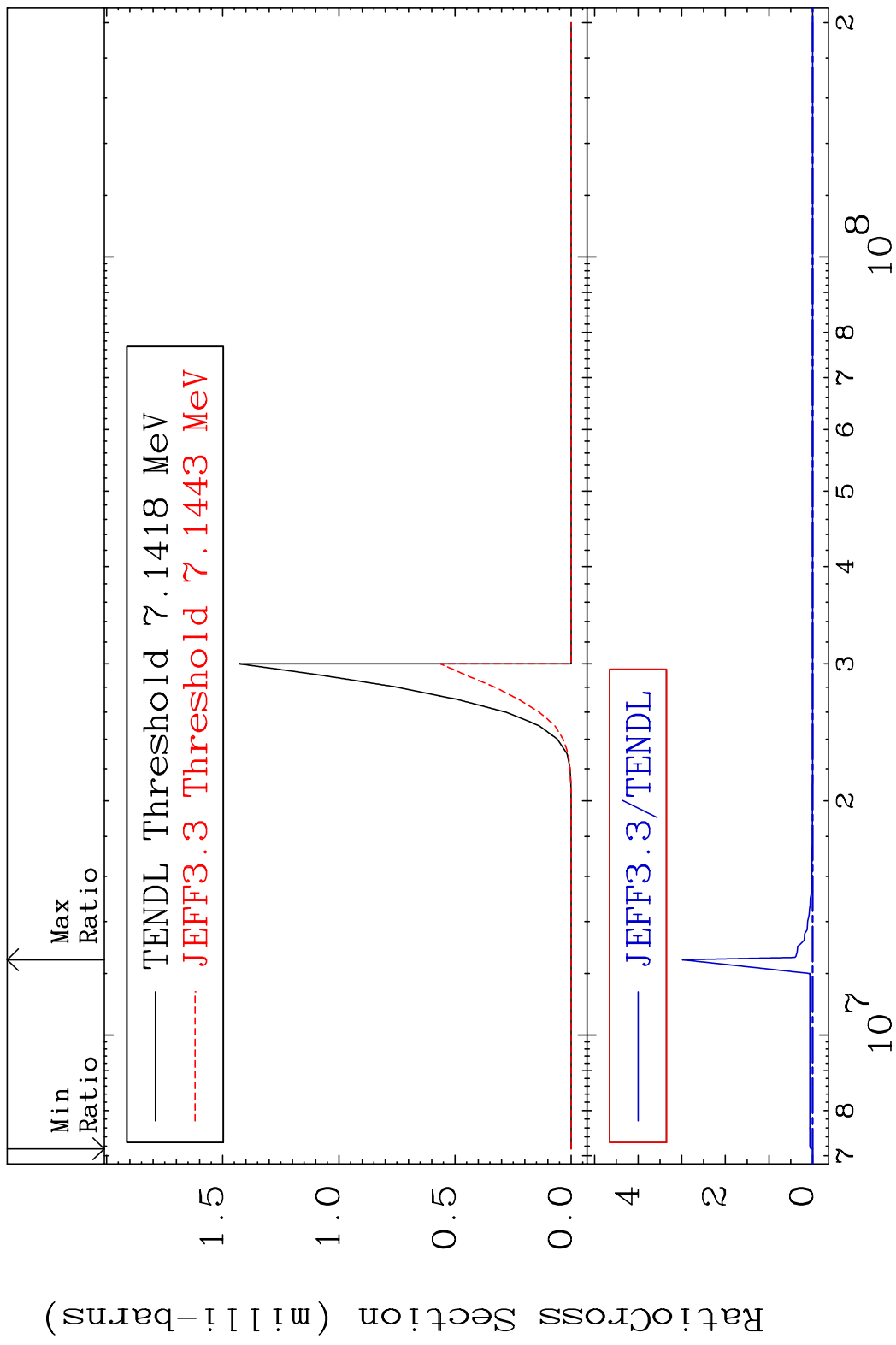
MAT 6849 Dpa disappearance (mt102 -120) 68-Er-170
 Cross Section -99.90 To 9999. %

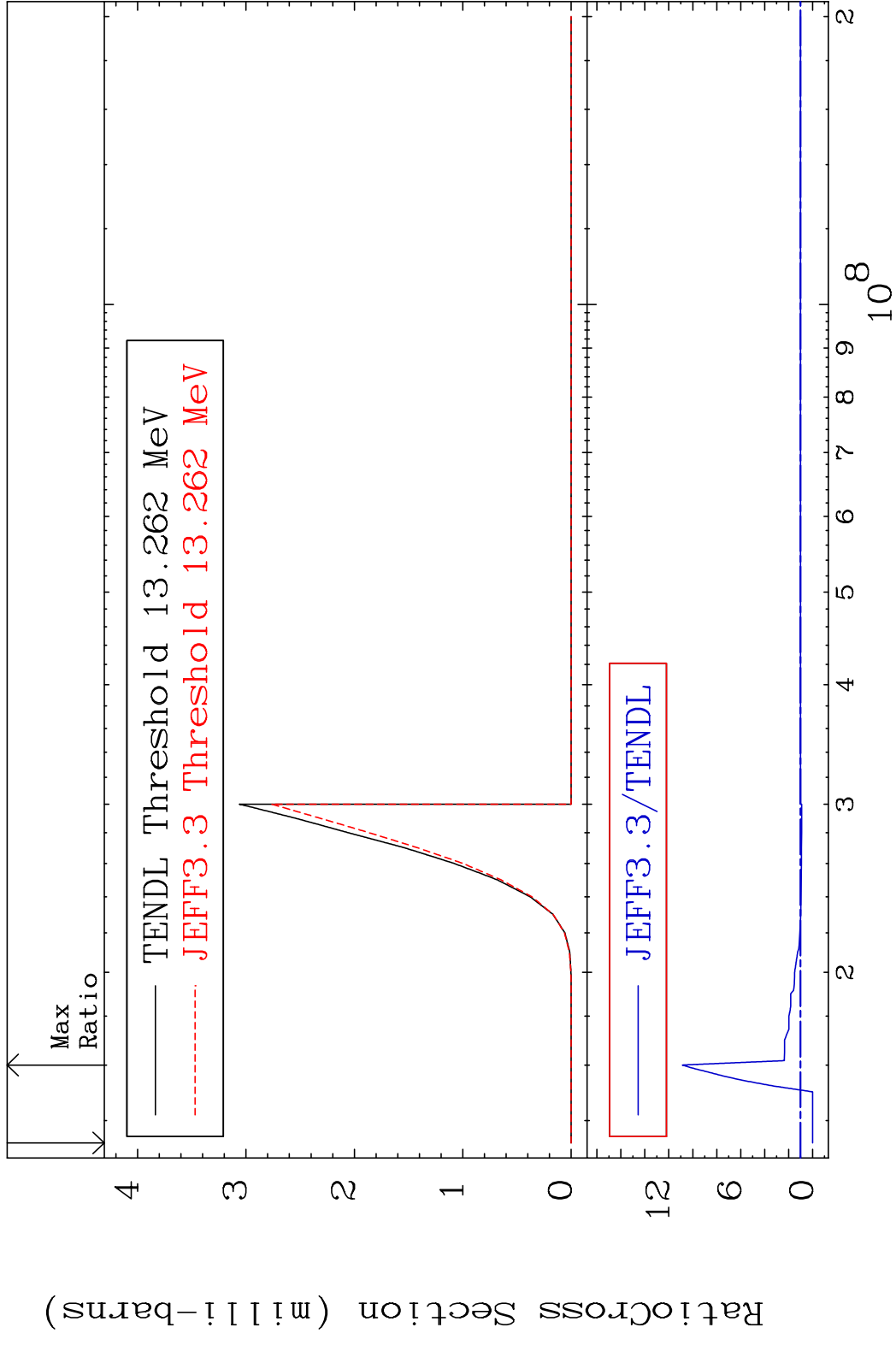


59 Incident Energy (eV) 68-Er-170

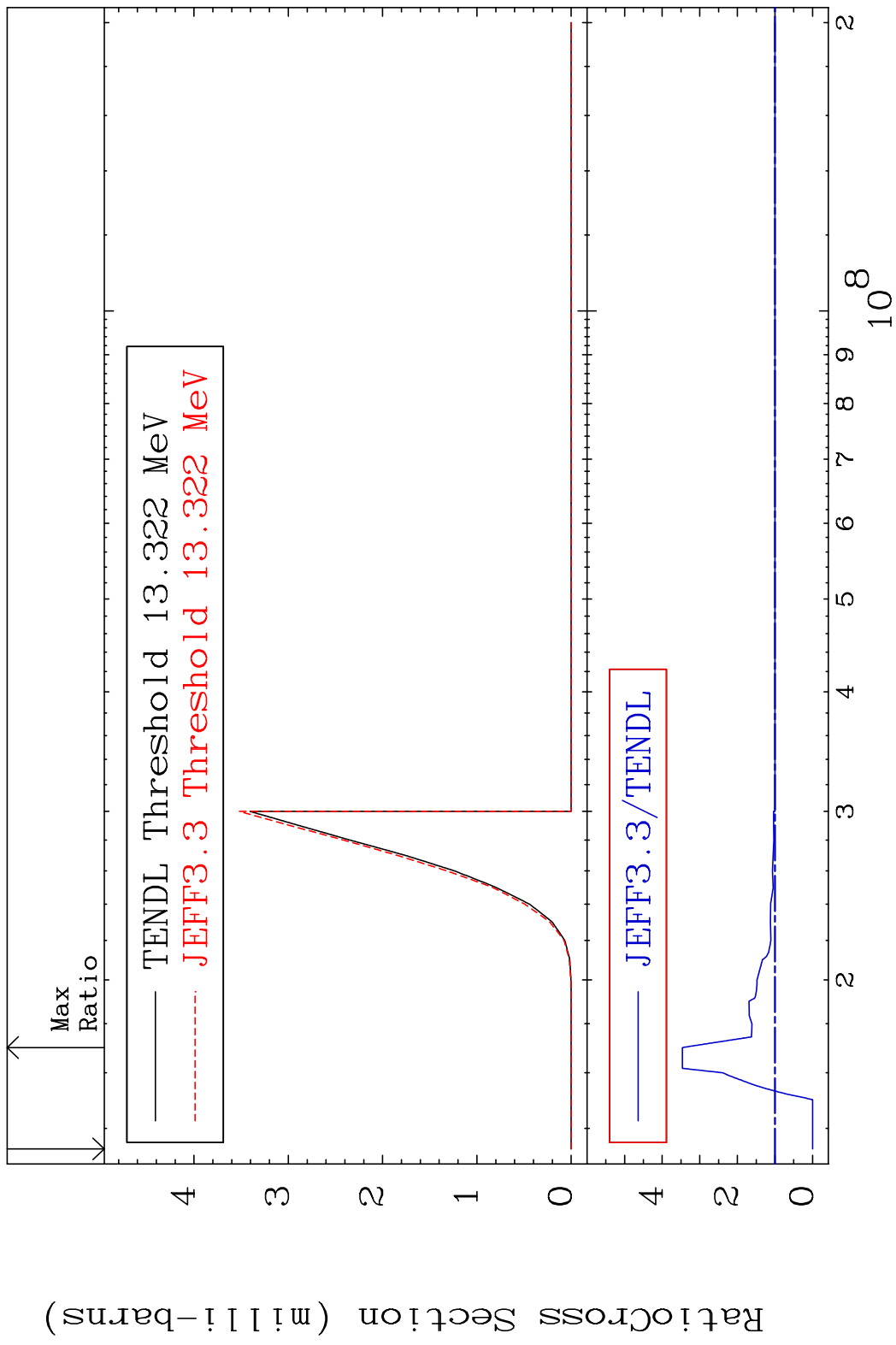
MAT 6849 (n,2n) α :66-Dy-165g 68-Er-170
 Radionuclide Production Cross Section Ratio 9999. %



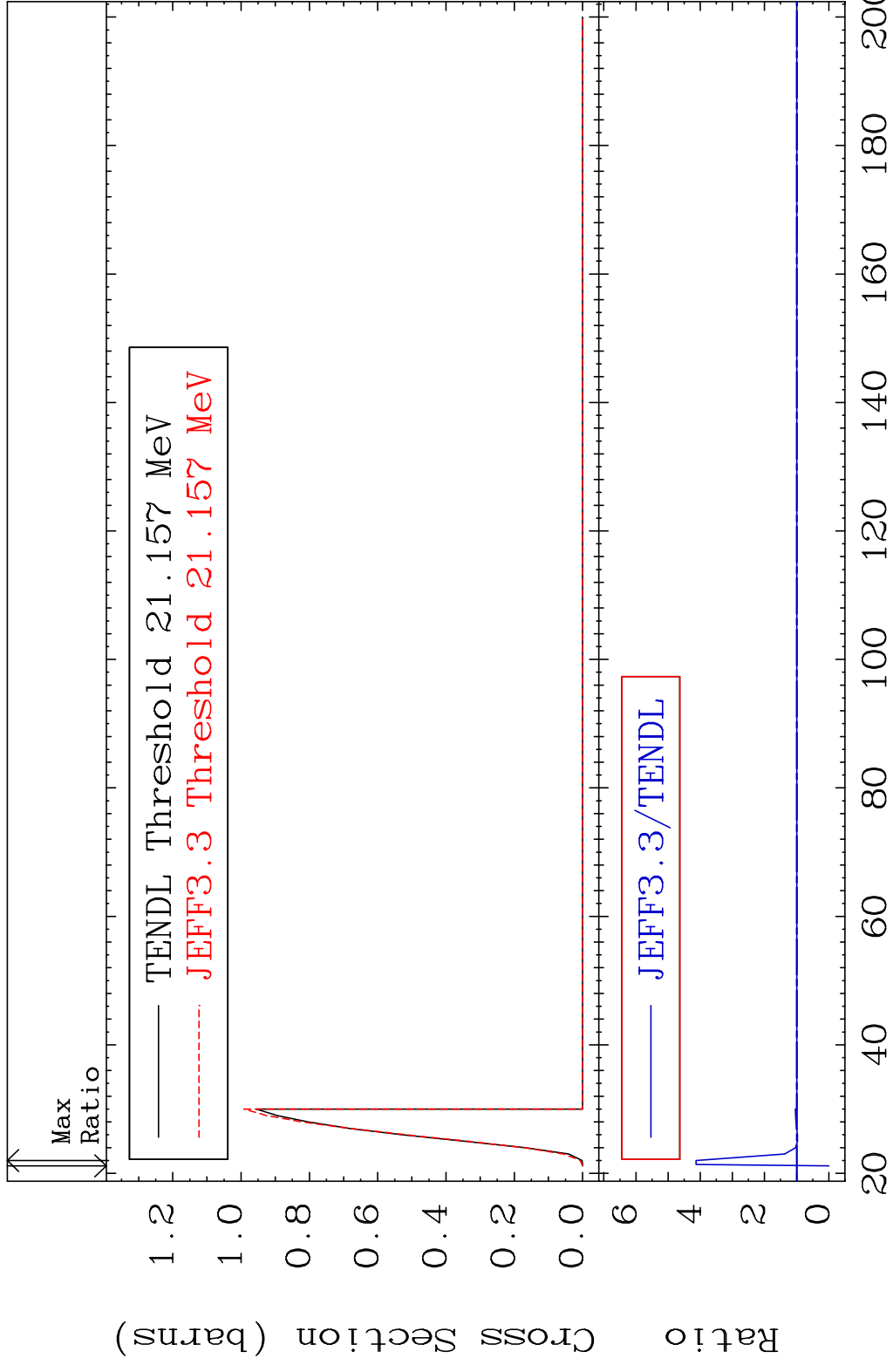




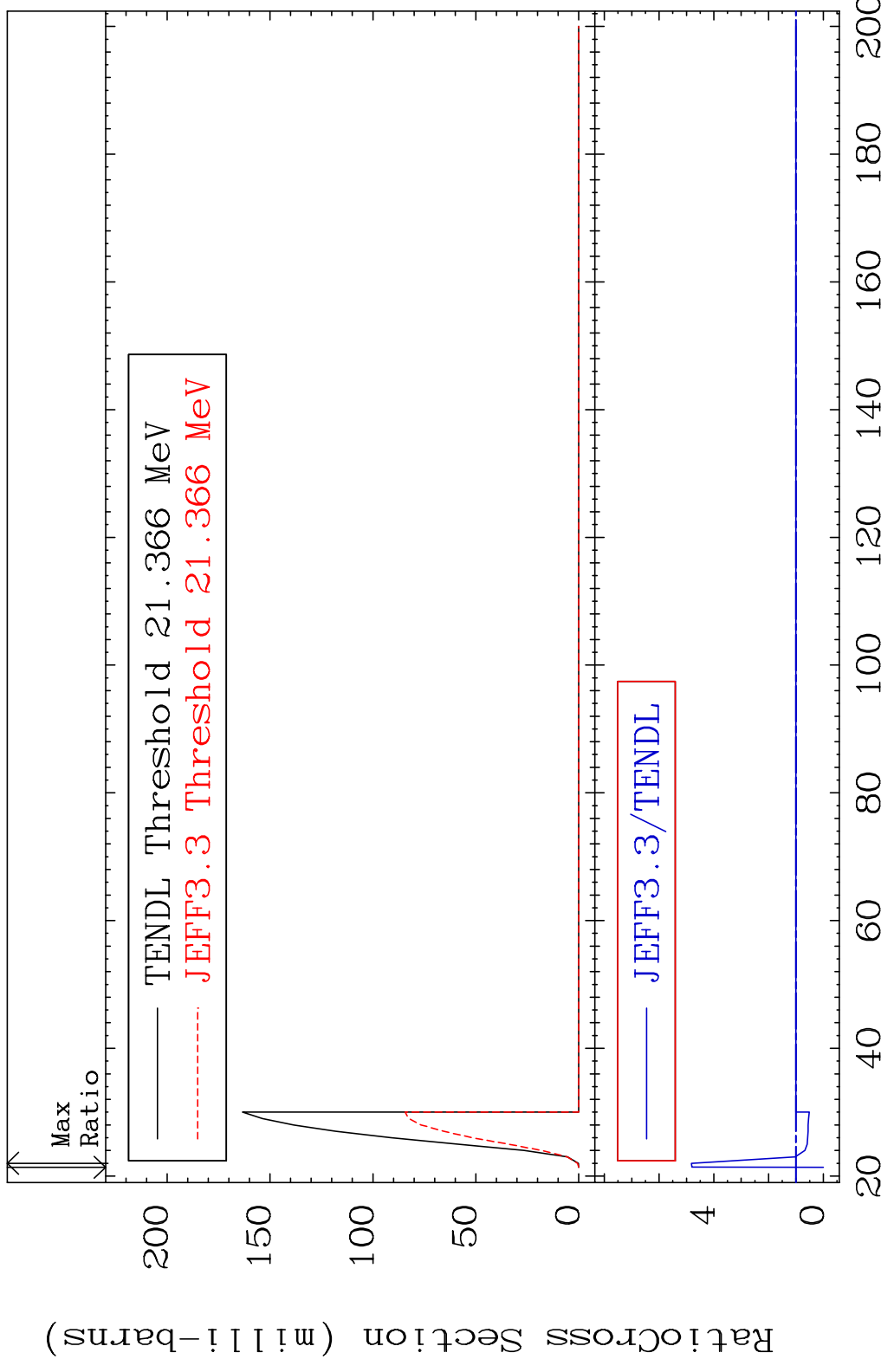
MAT 6849 (n, n') d:67-Ho-168m1 68-Er-170
 Radionuclide Production Cross Section Ratio 246.4 %

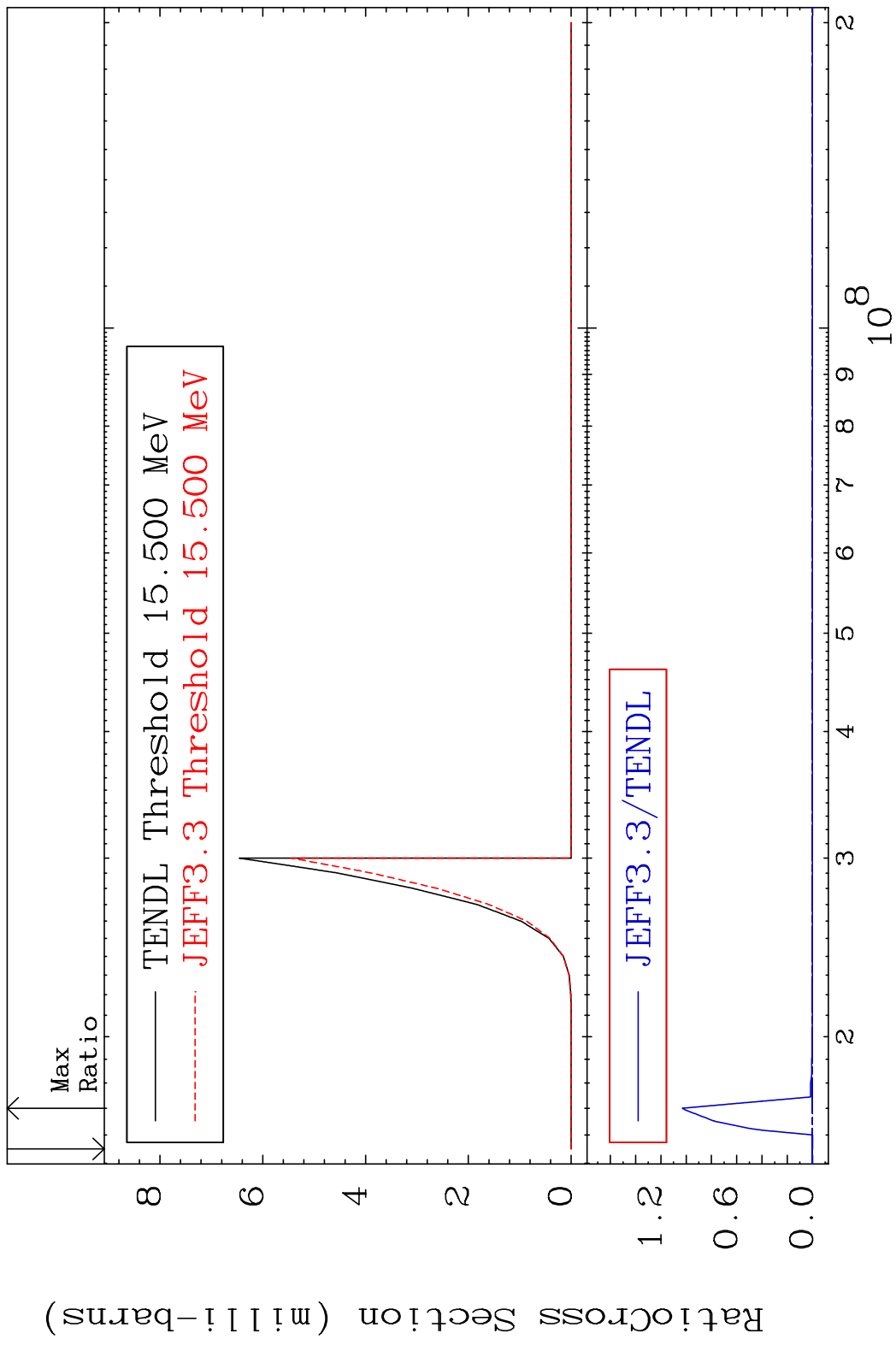


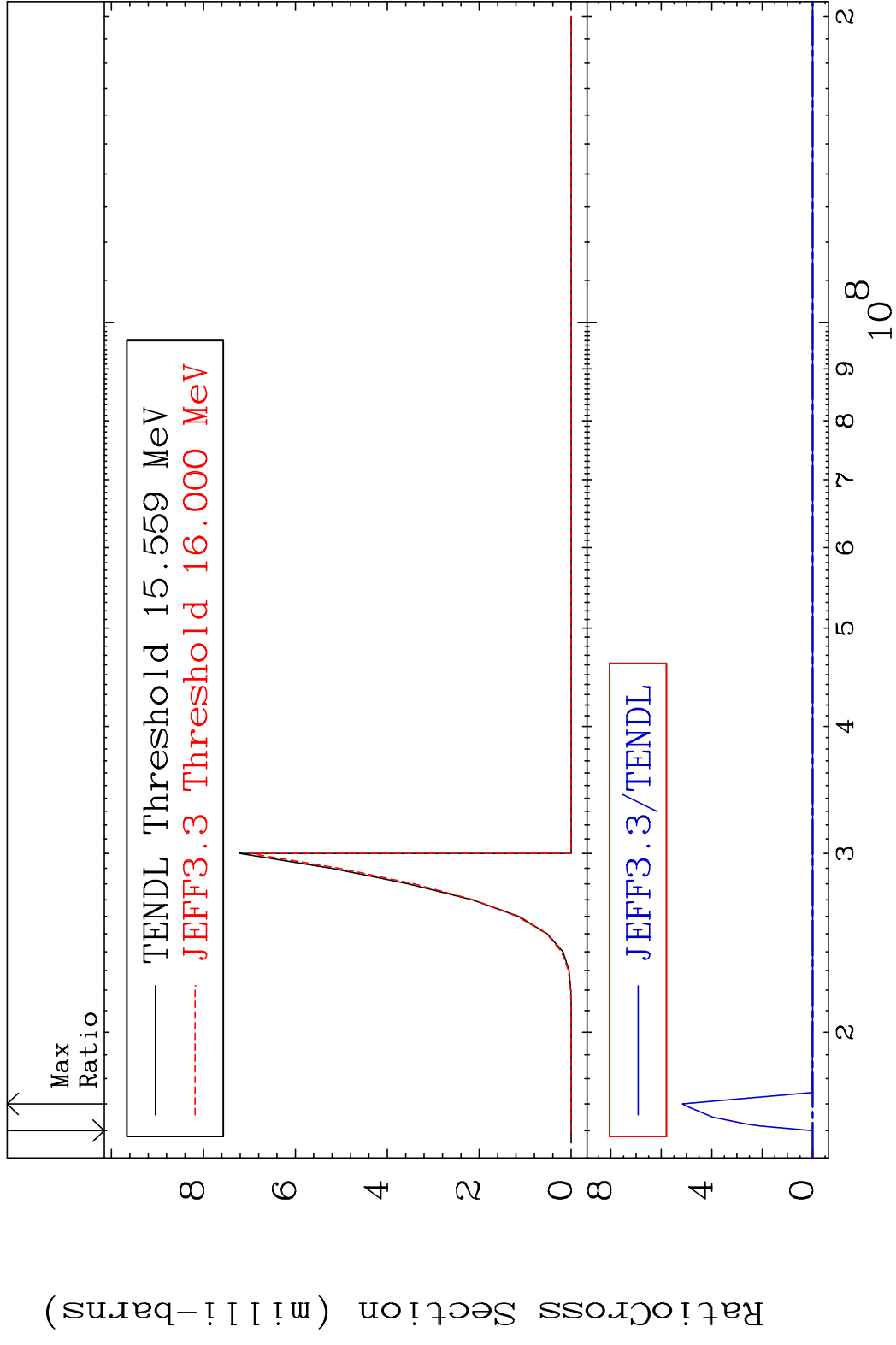
MAT 6849 (n,4n):68-Er-167g 68-Er-170
 Radionuclide Production Cross Section 180.0 dth 313.1 %

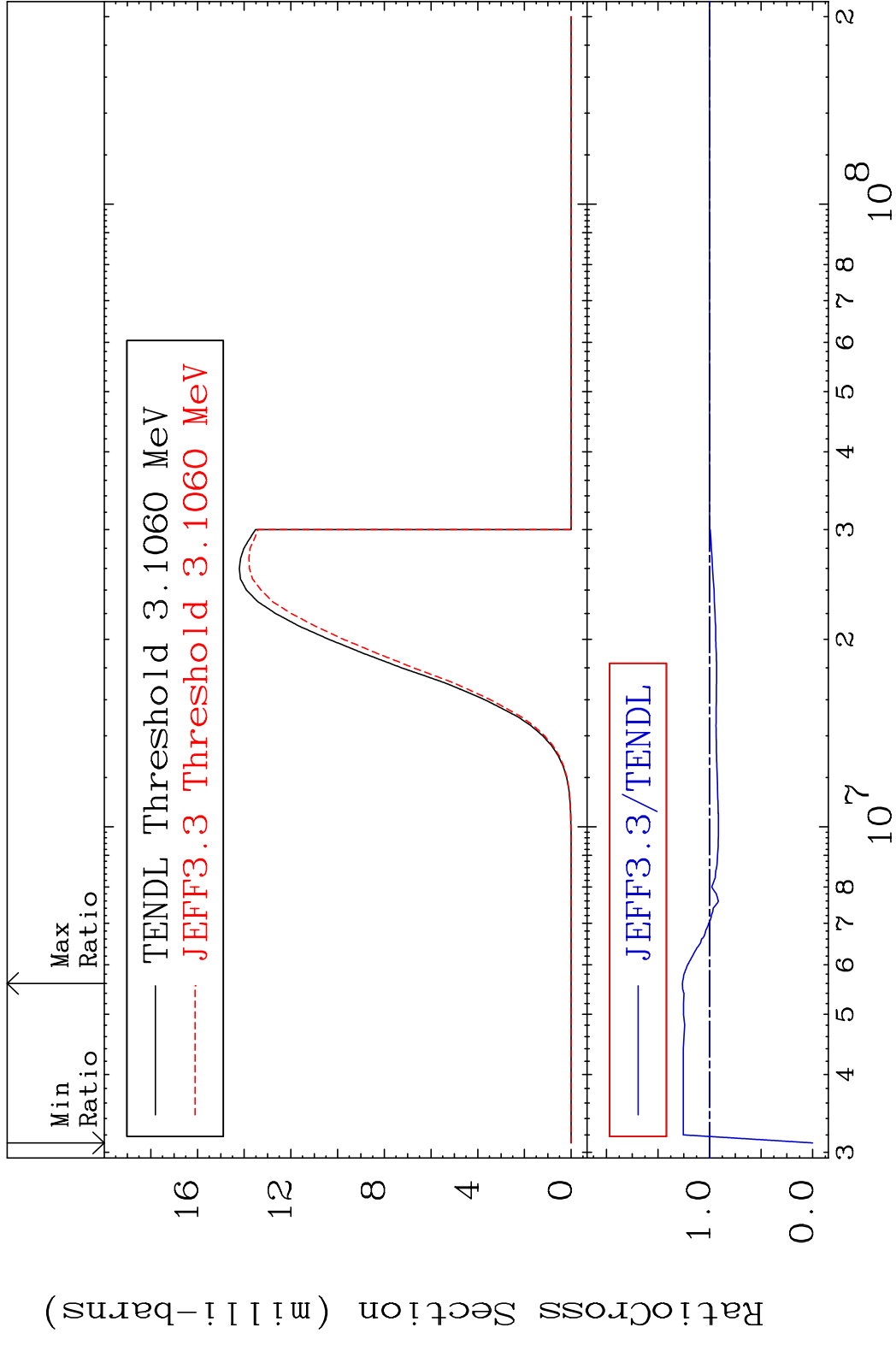


MAT 6849 (n, 4n):68-Er-167m3 68-Er-170
 Radionuclide Production Cross Section 180.0 dth 382.0 %

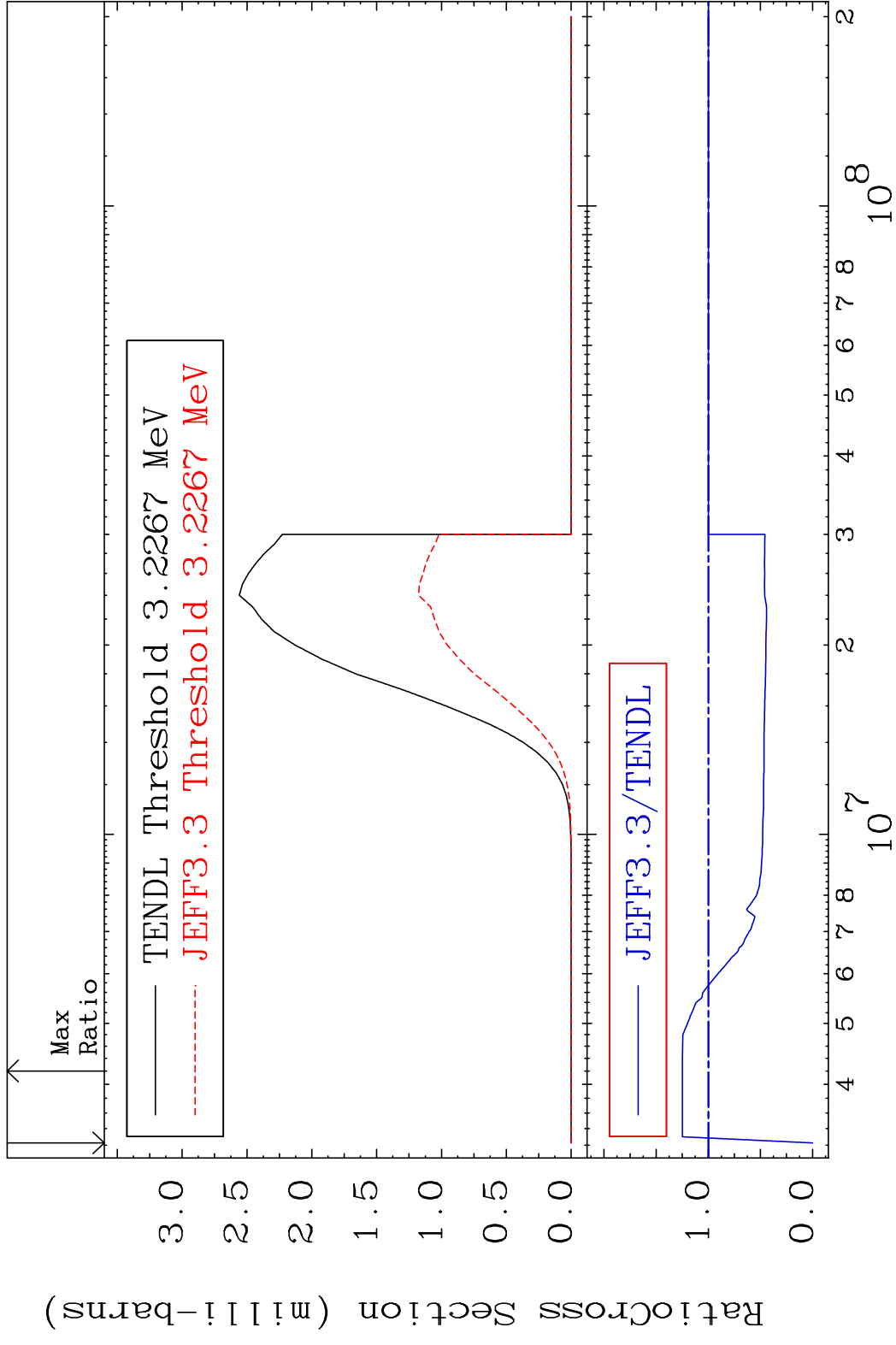




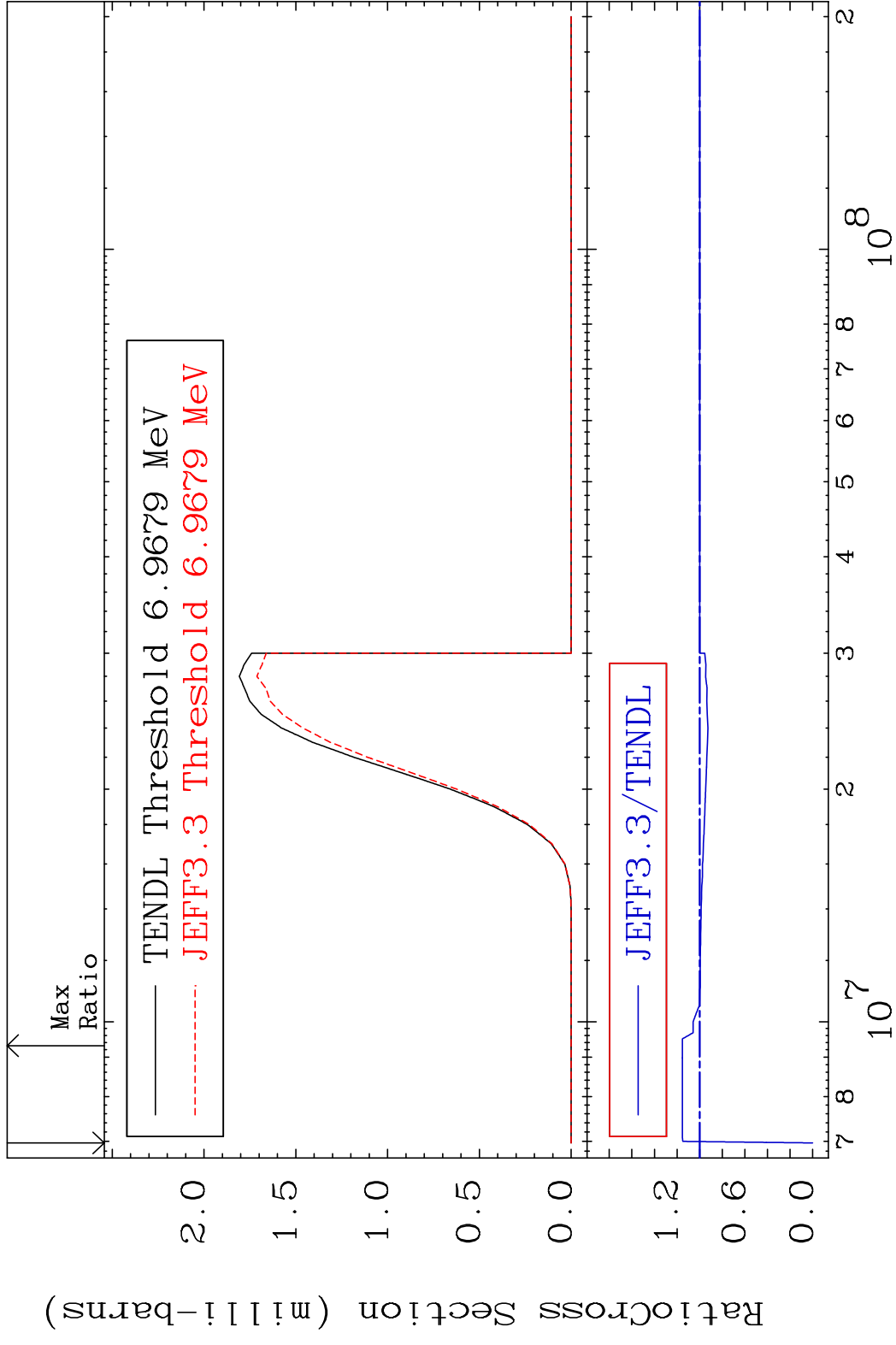




MAT 6849 (n, p): 67-Ho-170m1 68-Er-170
 Radionuclide Production Cross Section 180.01 dth 24.87 %



MAT 6849 (n,t):67-Ho-168g 68-Er-170
 Radionuclide Production Cross Section 15.30 %



MAT 6849 (n, t):67-Ho-168m1 68-Er-170
 Radionuclide Production Cross Section 15.64 %

