

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

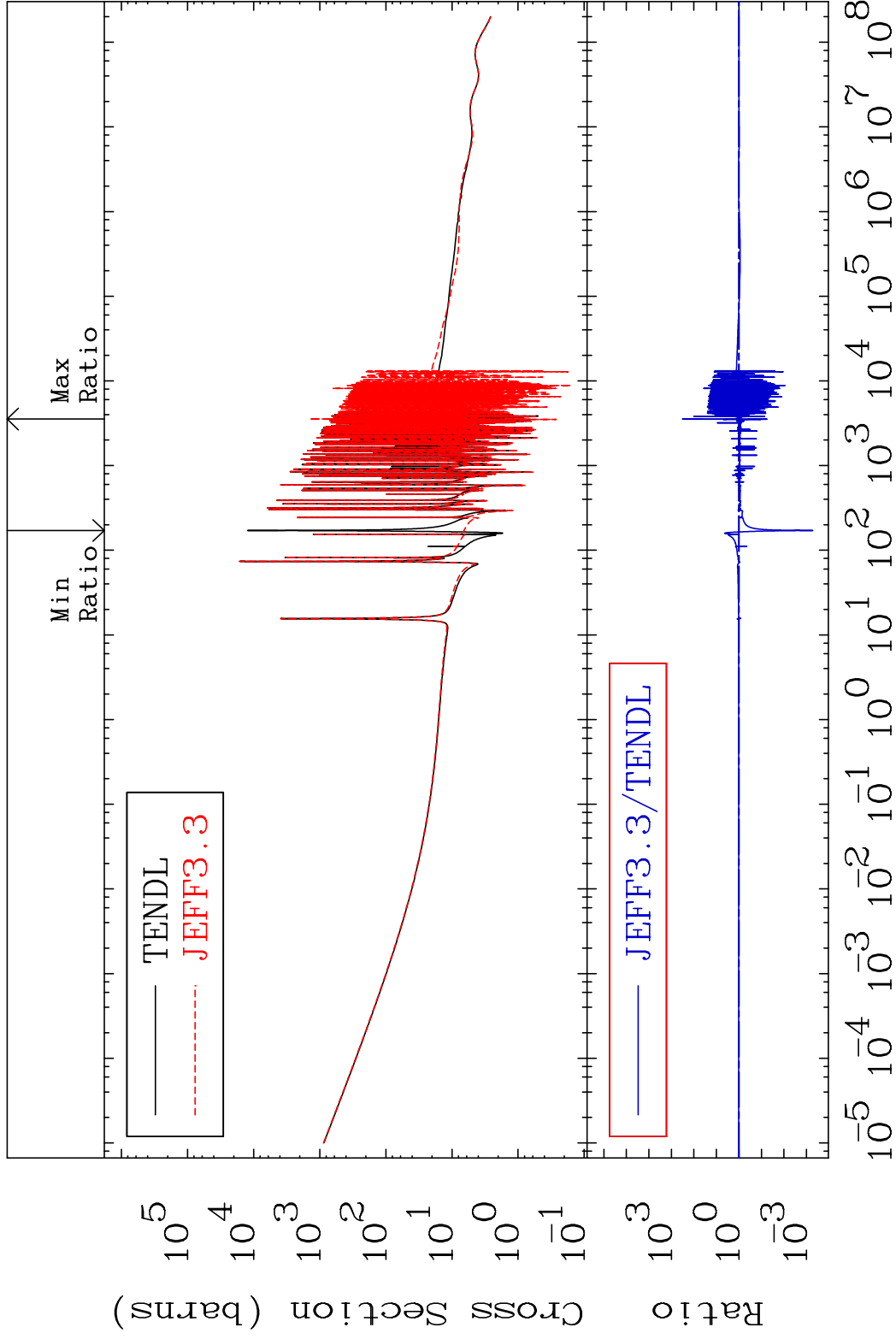
Press Mouse Button to Start

MAT 6837

Total

68-Er-166

Cross Section -99.95 To 9999. %



1

Incident Energy (eV)

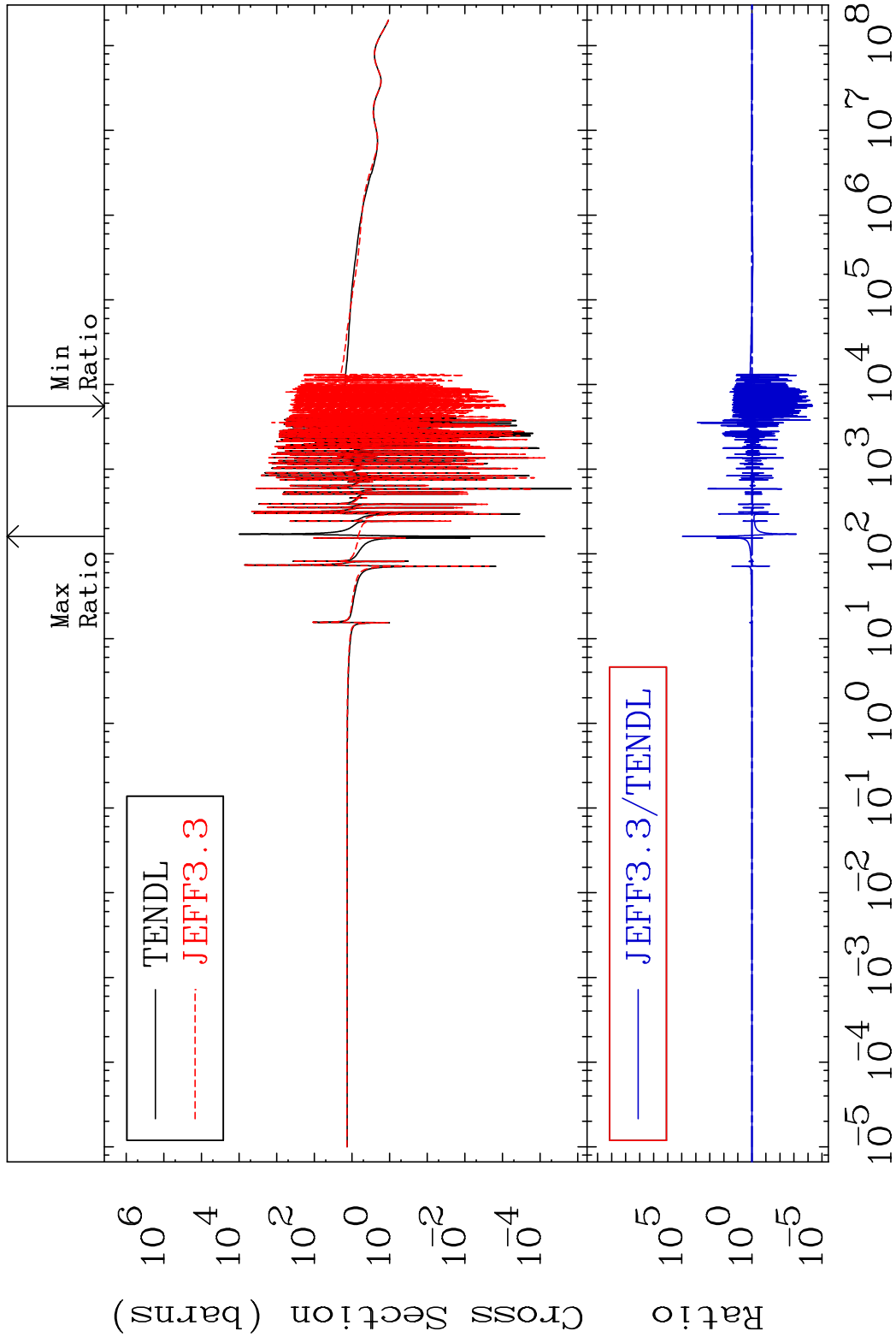
68-Er-166

MAT 6837

Elastic

68-Er-166

Cross Section -100.0 To 9999. %

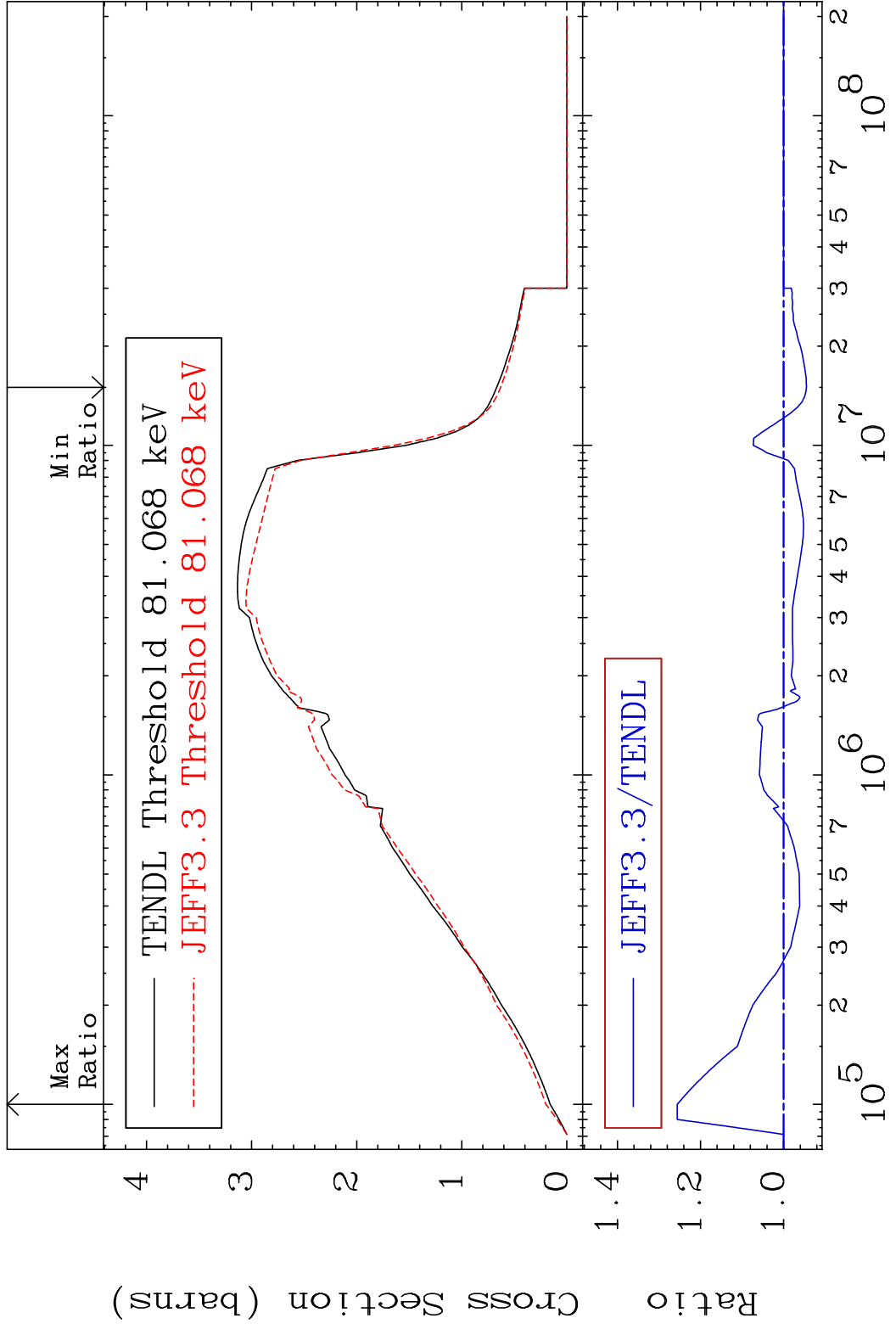


2

Incident Energy (eV)

68-Er-166

MAT 6837 Inelastic 68-Er-166
 Cross Section -5.477 To 25.61 %



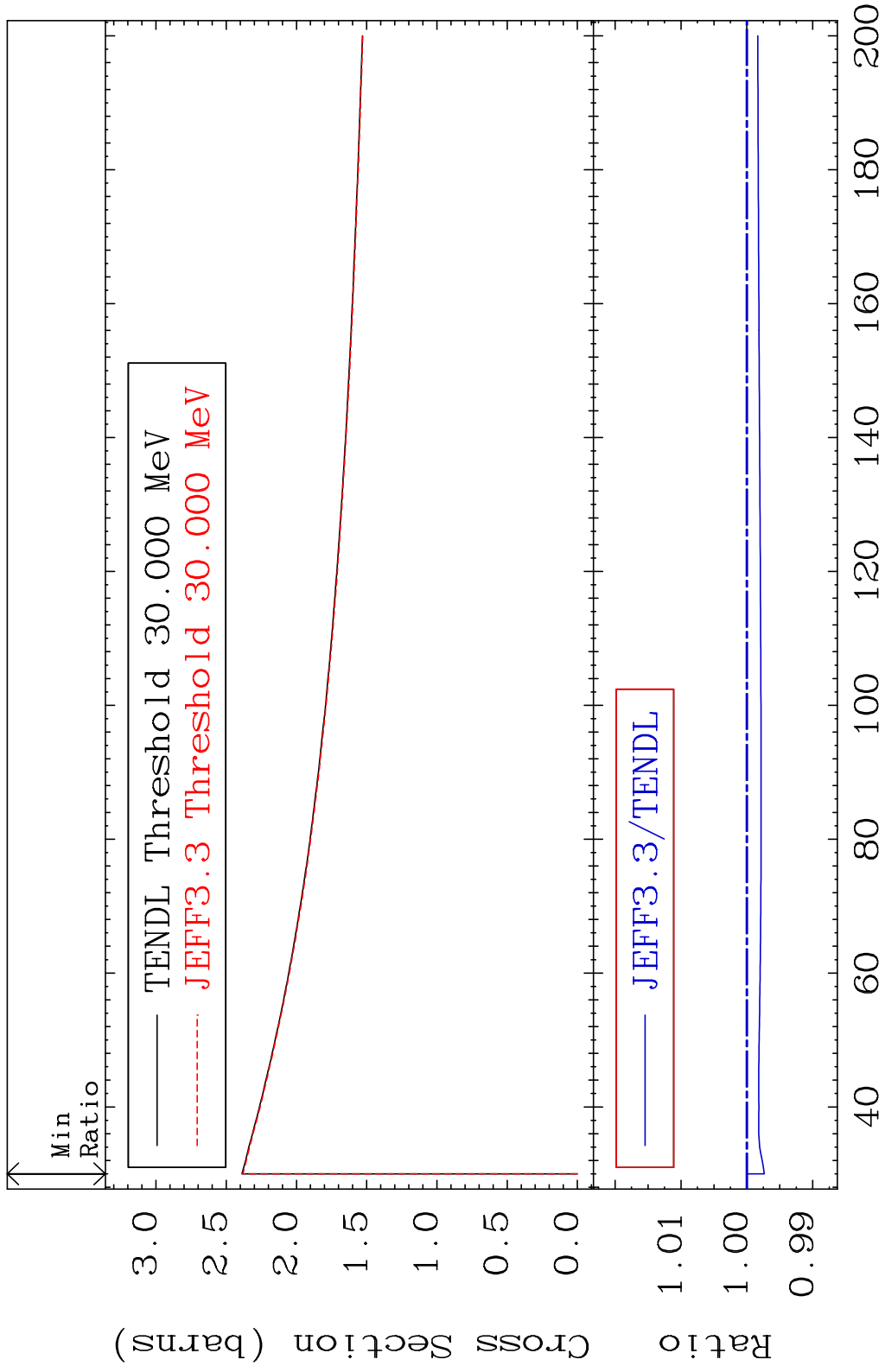
3 10⁵ 10⁶ 10⁷ 10⁸ 68-Er-166

MAT 6837

(n, remainder)

68-Er-166

Cross Section -0.265 To 0.000 %

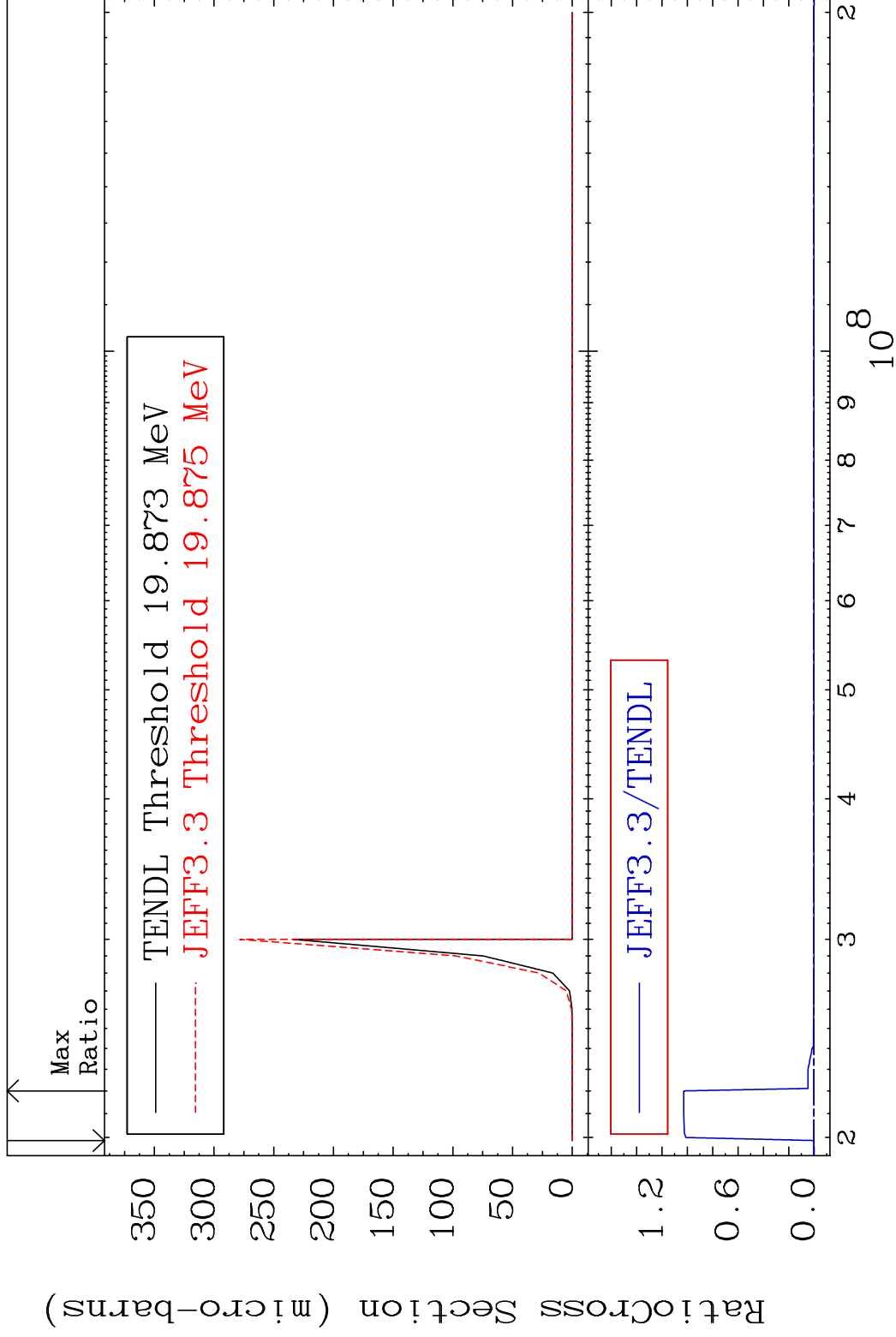


MAT 6837

(n,2n) d

68-Er-166

Cross Section -100.0 To 9999. %



5

Incident Energy (eV)

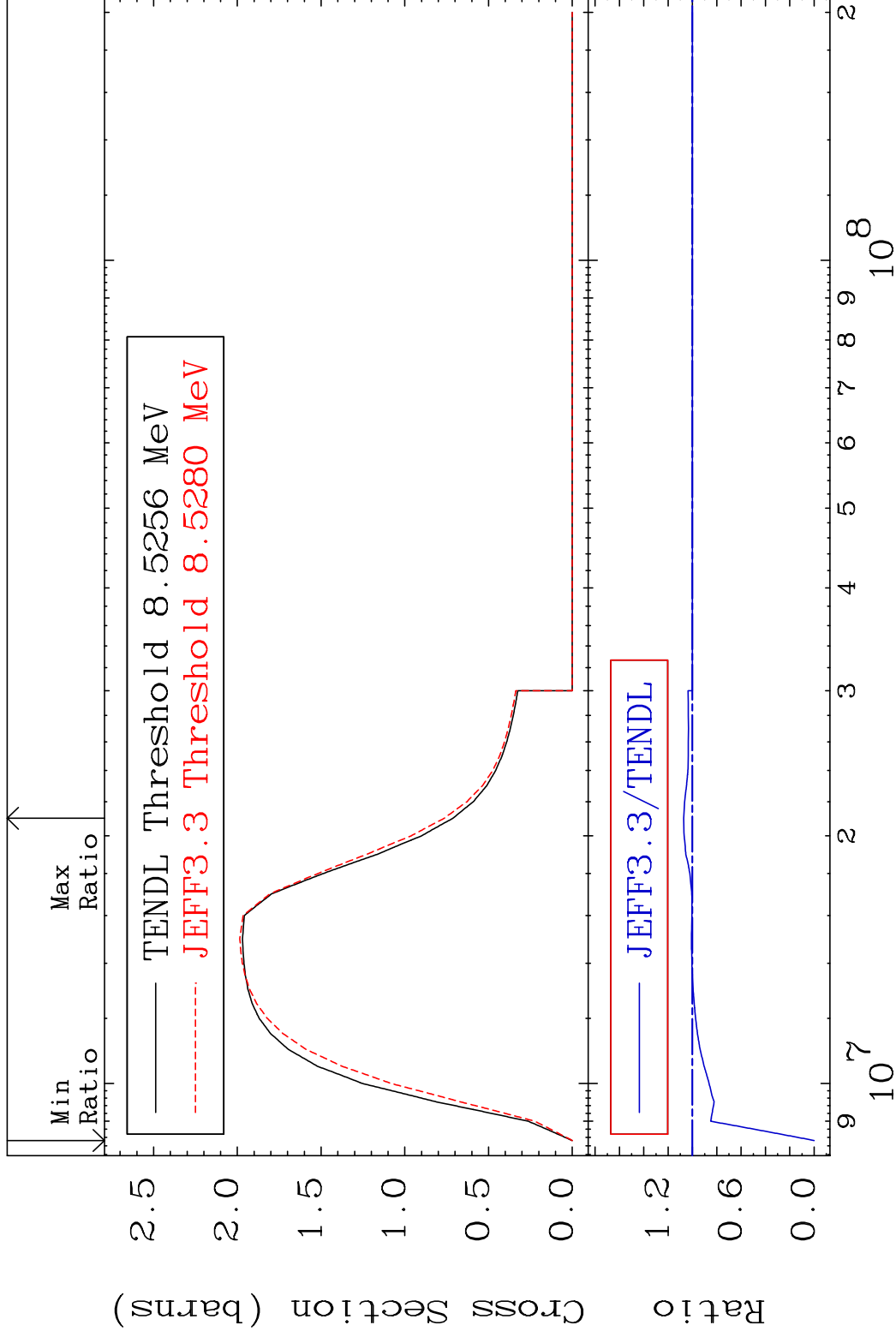
68-Er-166

MAT 6837

(n,2n)

68-Er-166

Cross Section -100.0 To 7.221 %



6

Incident Energy (eV)

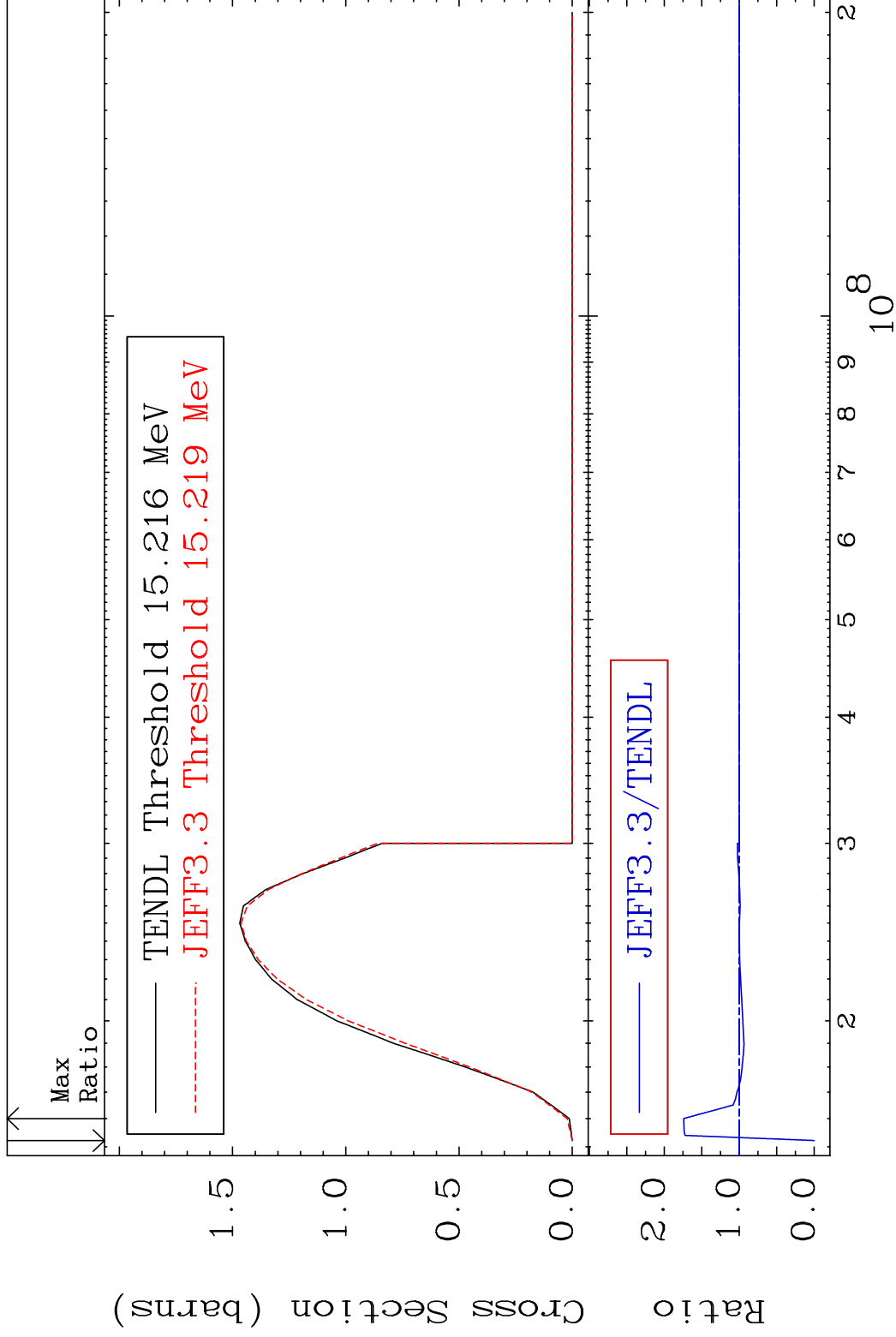
68-Er-166

MAT 6837

(n,3n)

68-Er-166

Cross Section -100.0 To 74.05 %



7

Incident Energy (eV)

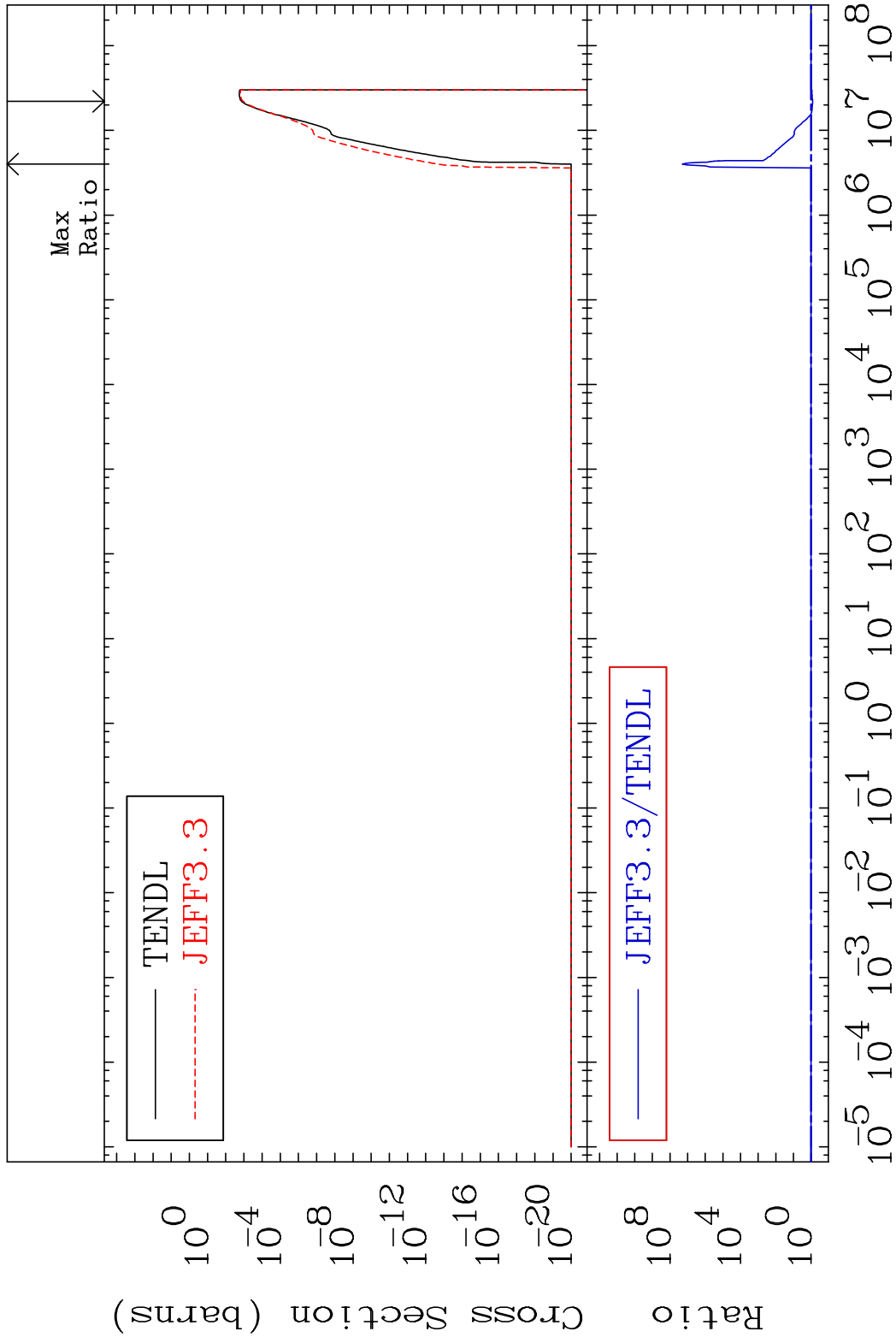
68-Er-166

MAT 6837

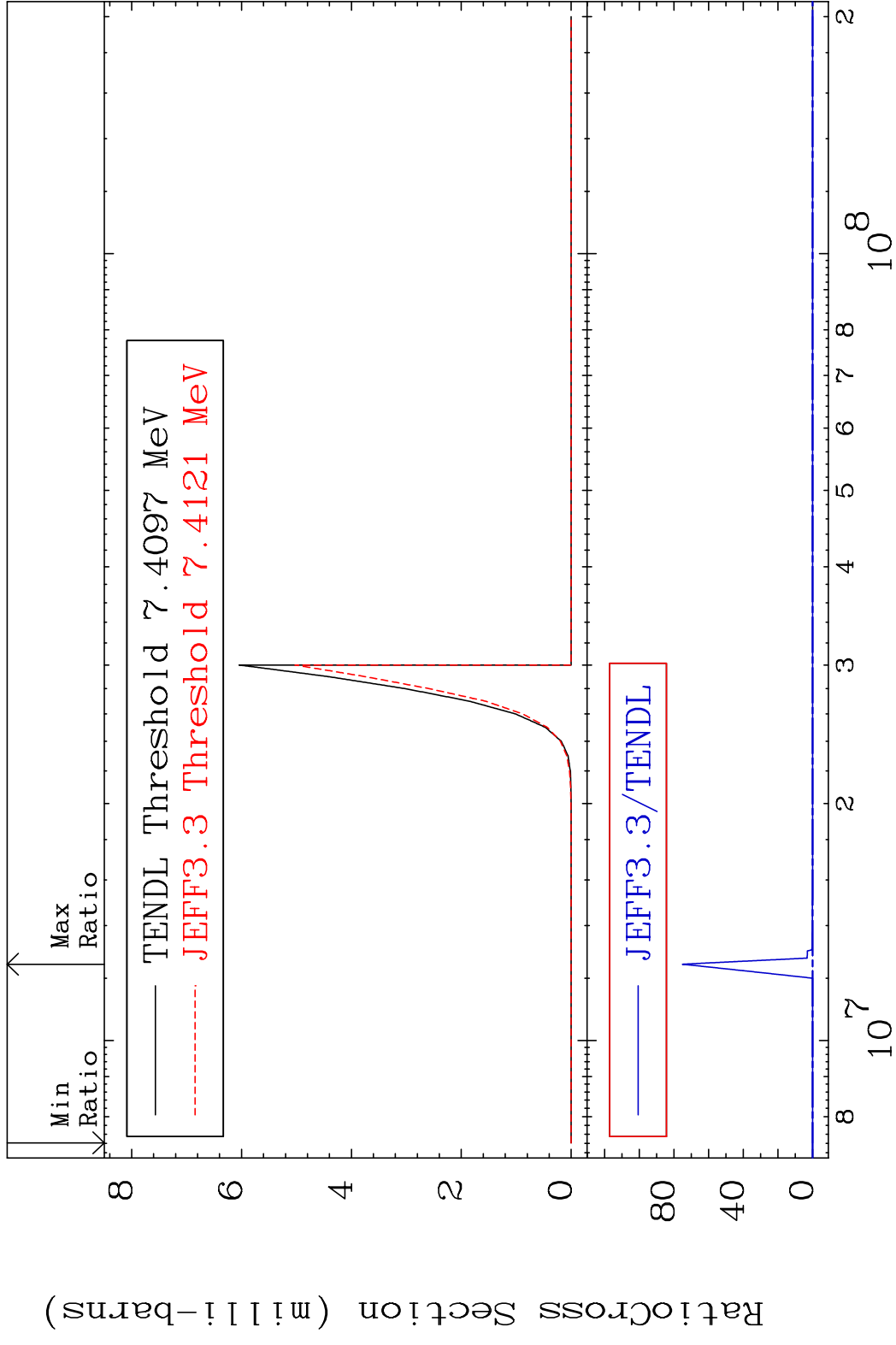
(n, n') α

68-Er-166

Cross Section -17.54 To 9999. %



MAT 6837 (n,2n) α 68-Er-166
 Cross Section -100.0 To 9999. %

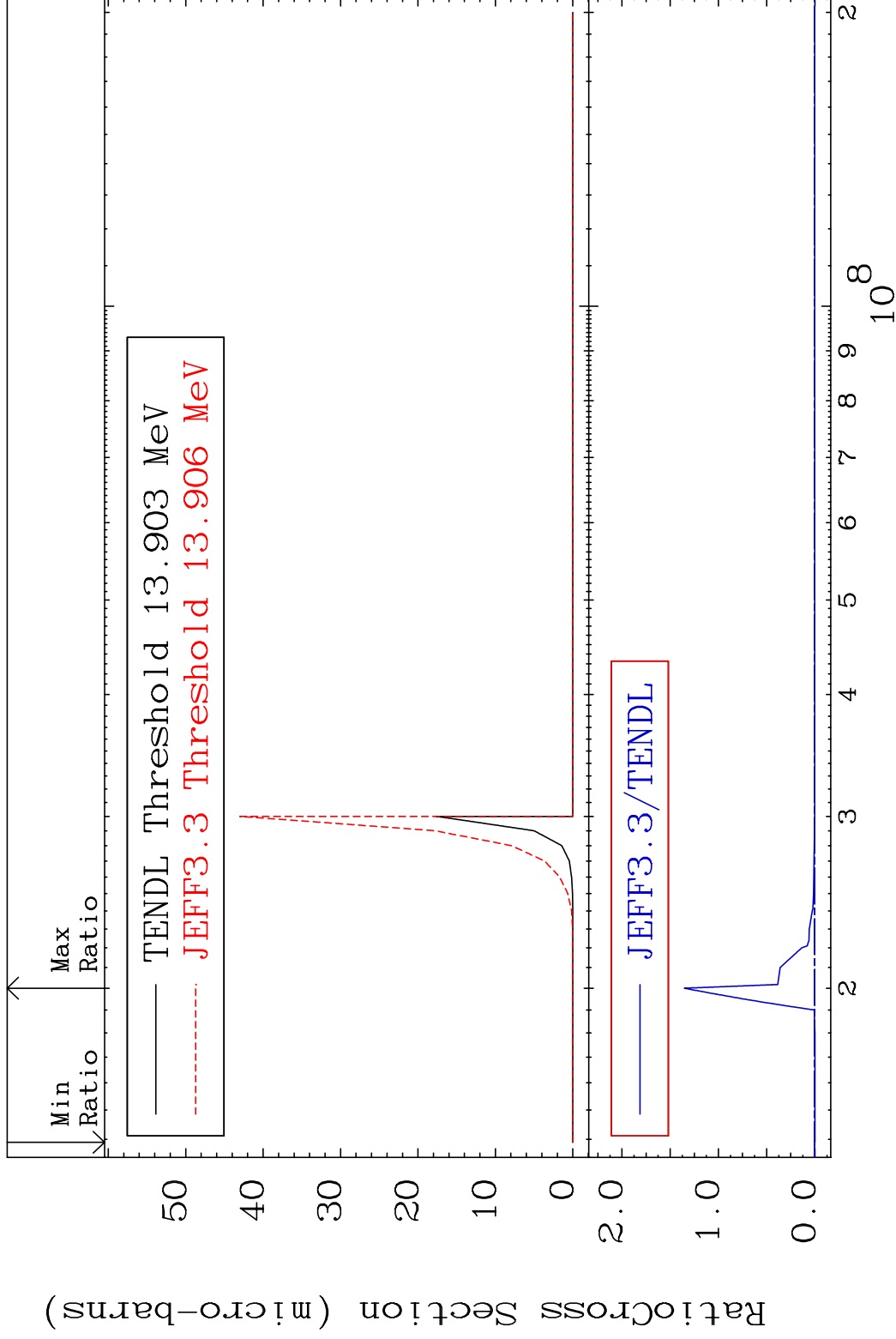


MAT 6837

(n,3n) α

68-Er-166

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

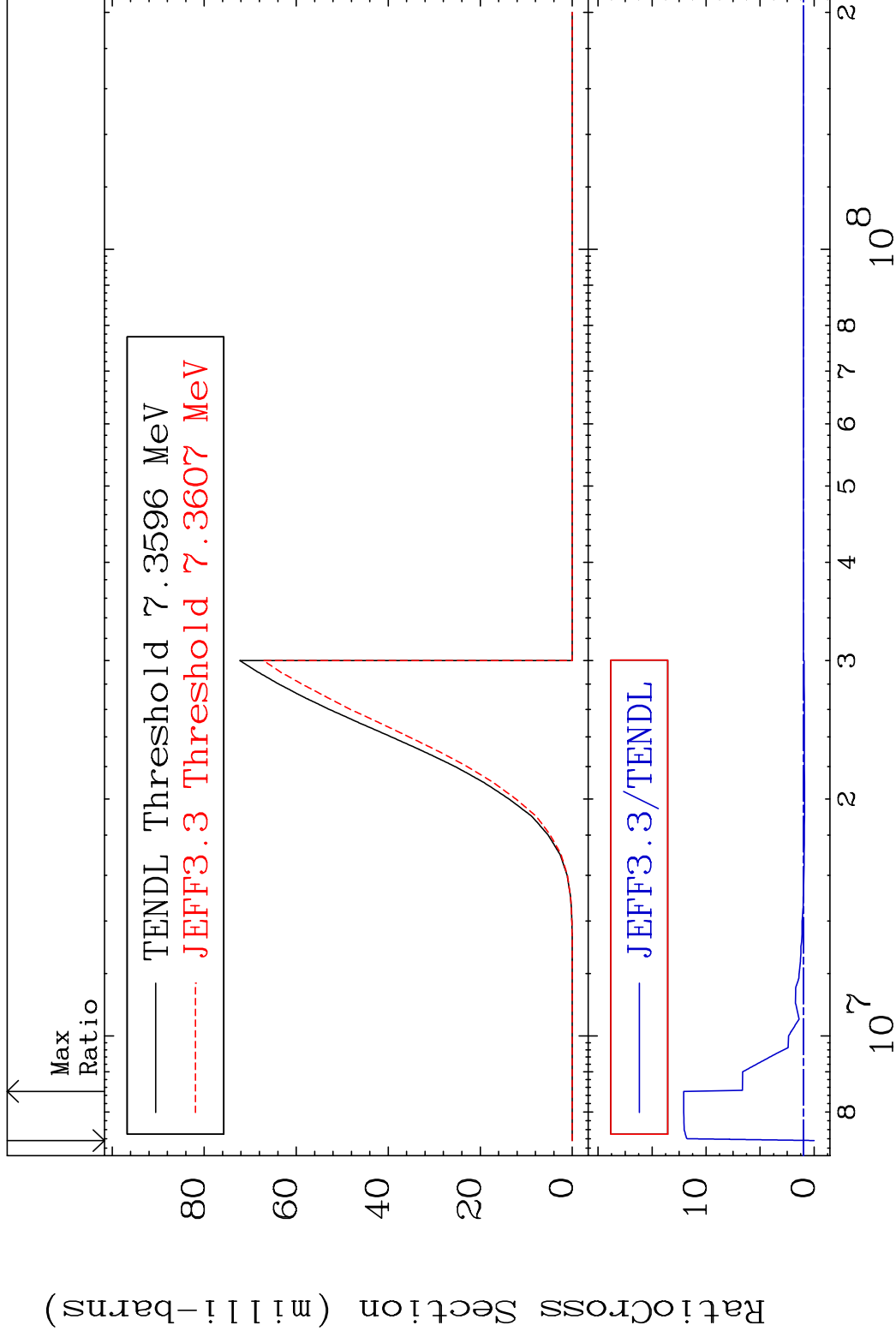
68-Er-166

MAT 6837

(n, n') p

68-Er-166

Cross Section -100.0 To 1108. %

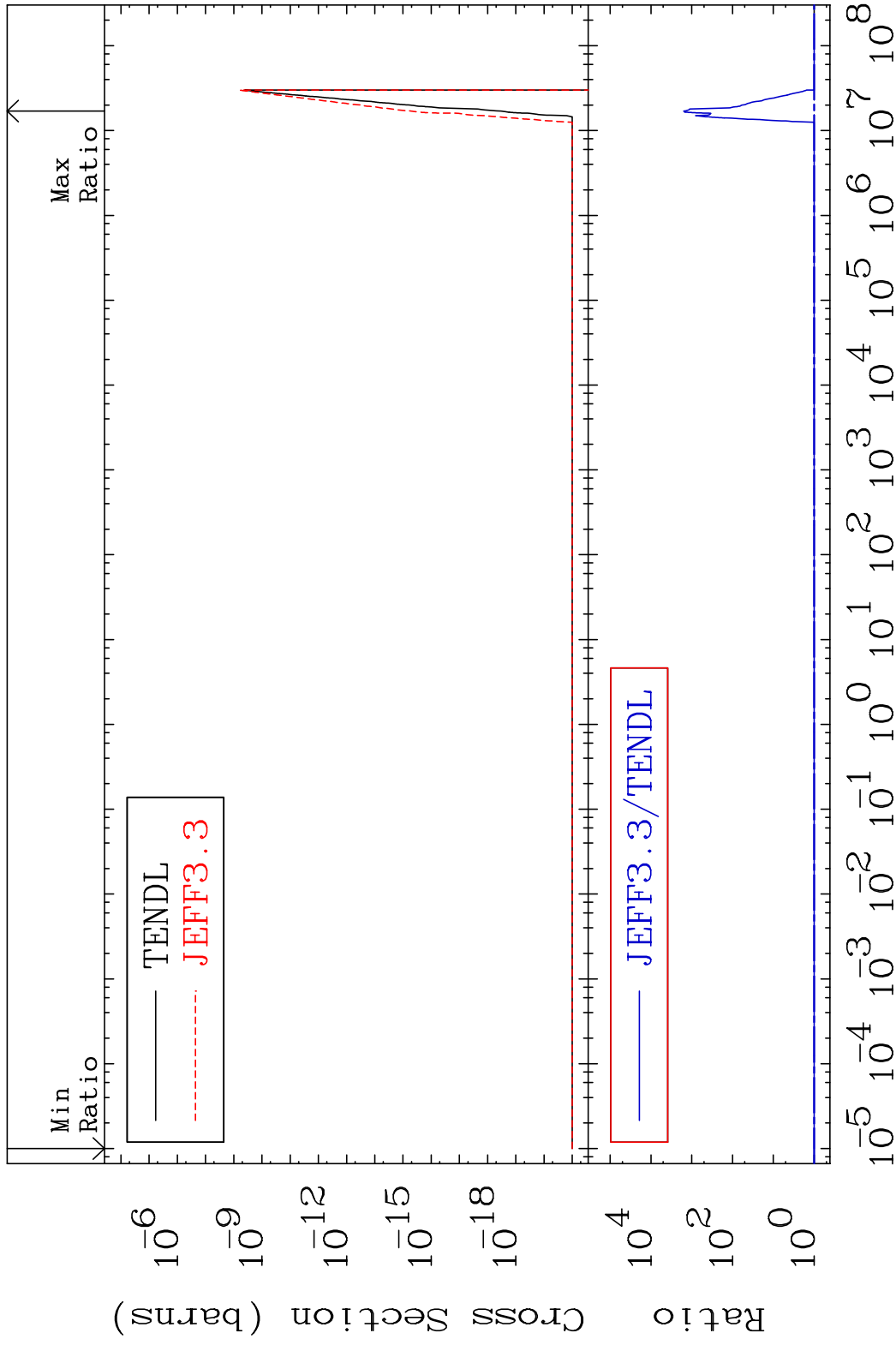


MAT 6837

(n, n') 2α

68-Er-166

Cross Section 0.000 To 9999. %



12

Incident Energy (eV)

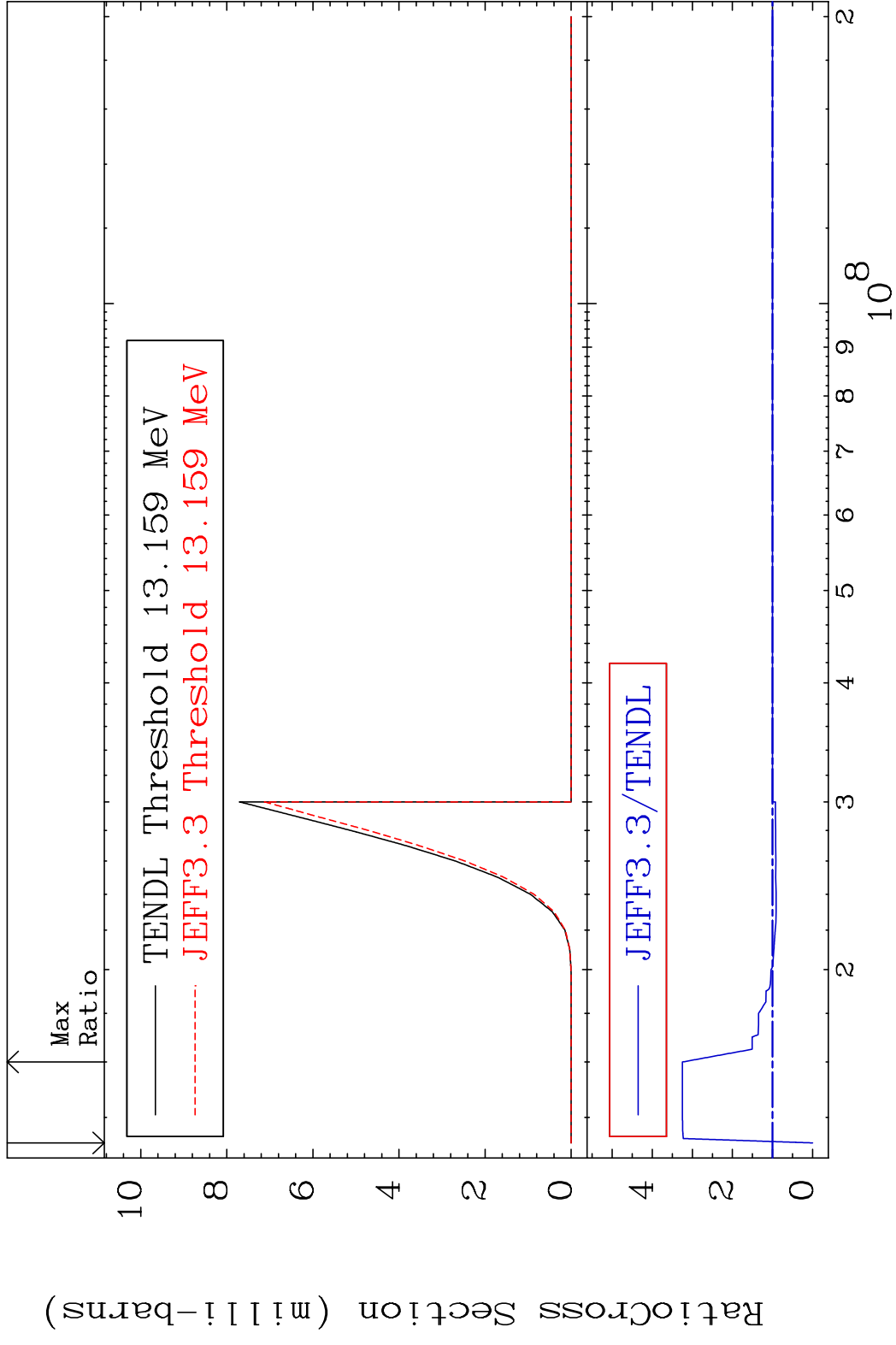
68-Er-166

MAT 6837

(n, n') d

68-Er-166

Cross Section -100.0 To 224.9 %

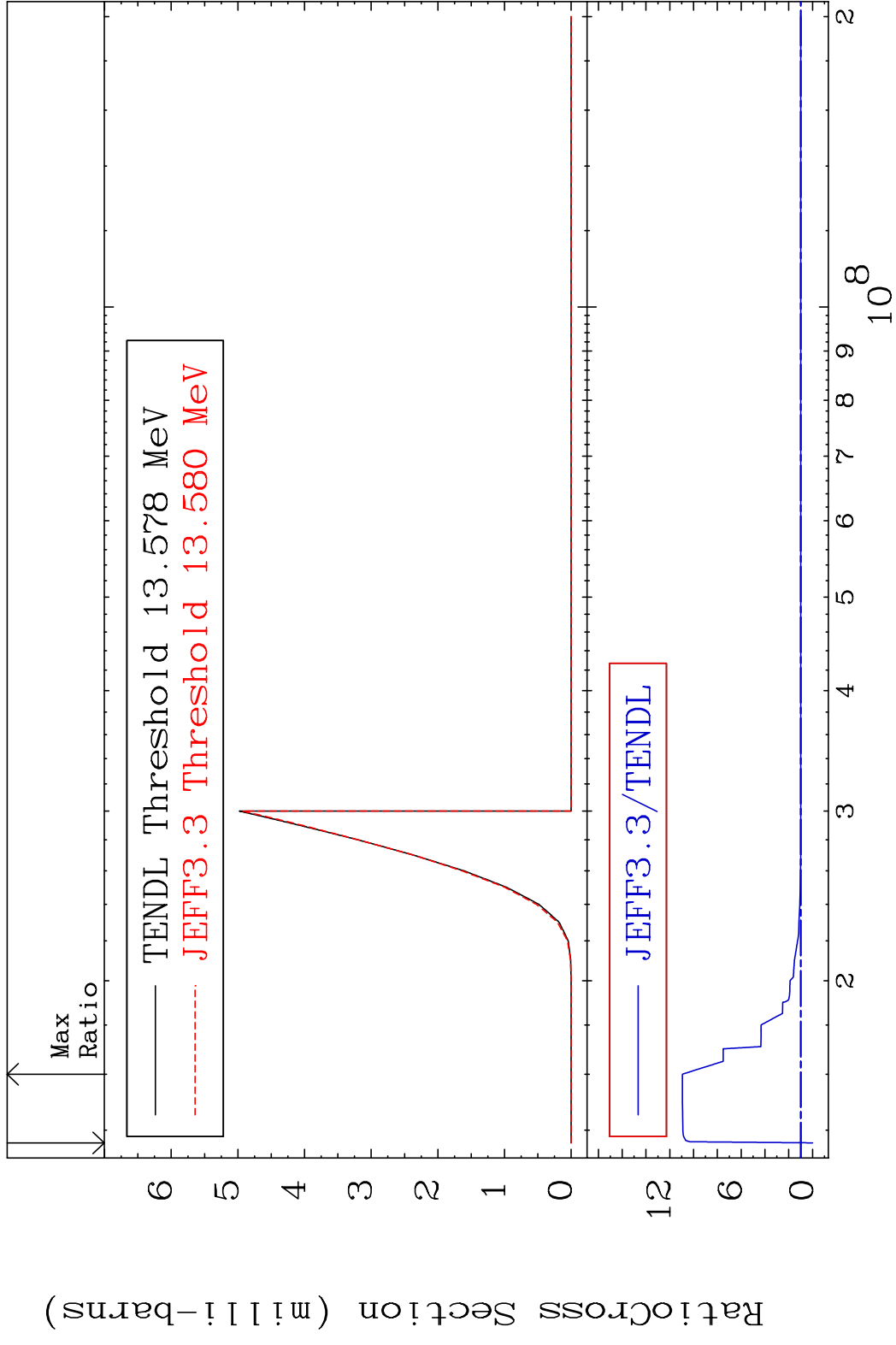


MAT 6837

(n, n') t

68-Er-166

Cross Section -100.0 To 994.3 %

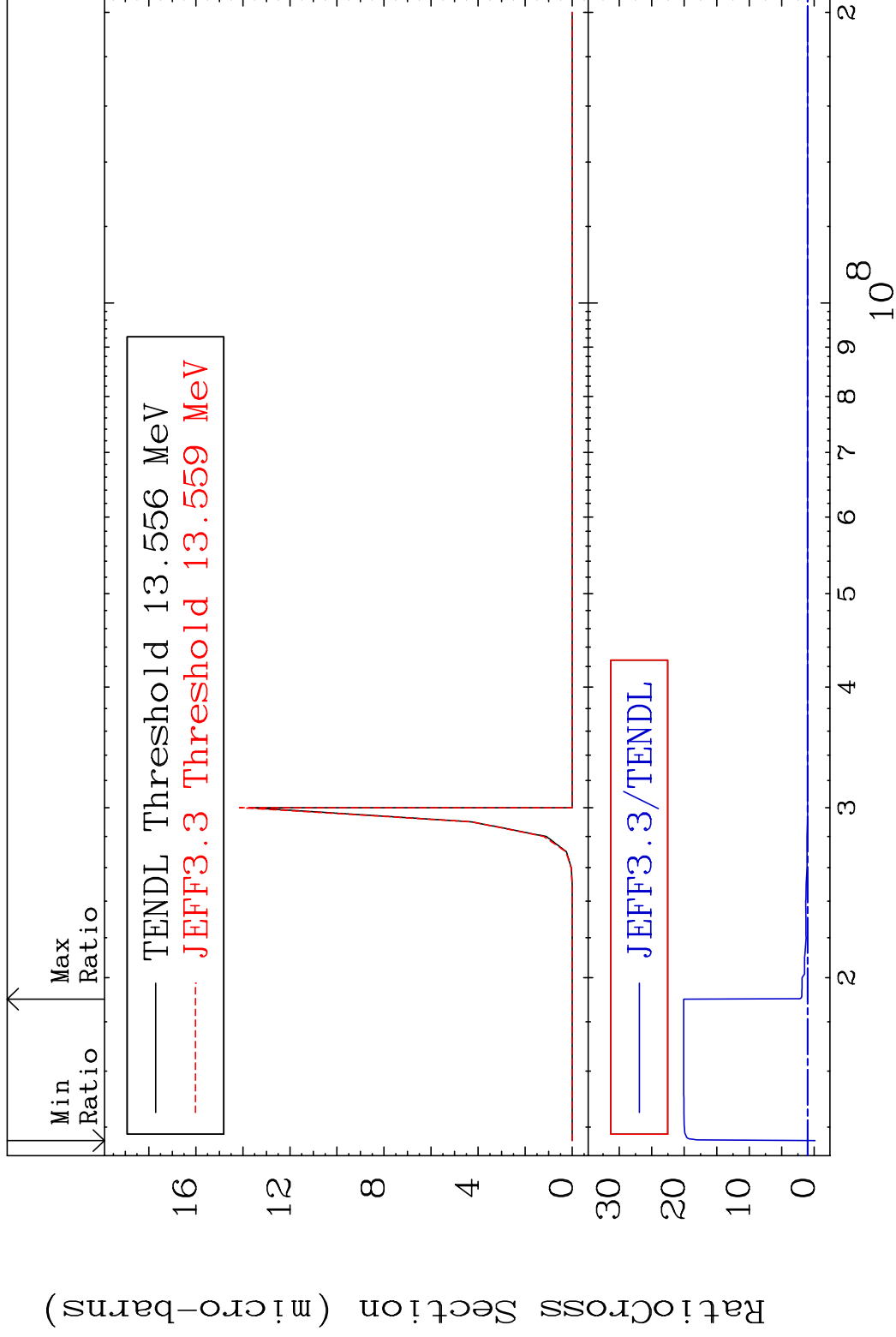


MAT 6837

(n,n') He-3

68-Er-166

Cross Section -100.0 To 1909. %



15

Incident Energy (eV)

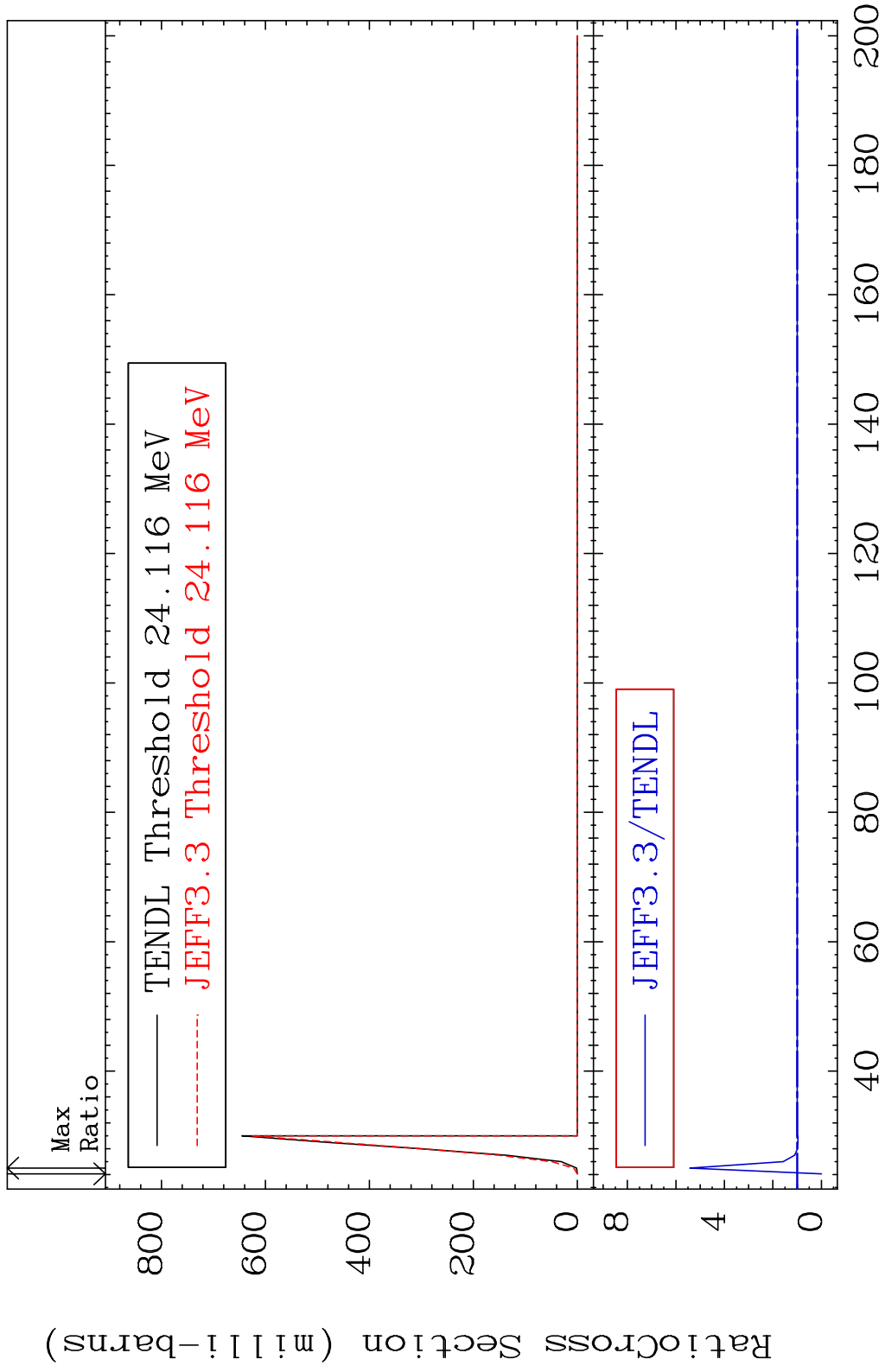
68-Er-166

MAT 6837

(n,4n)

68-Er-166

Cross Section -100.0 To 442.8 %

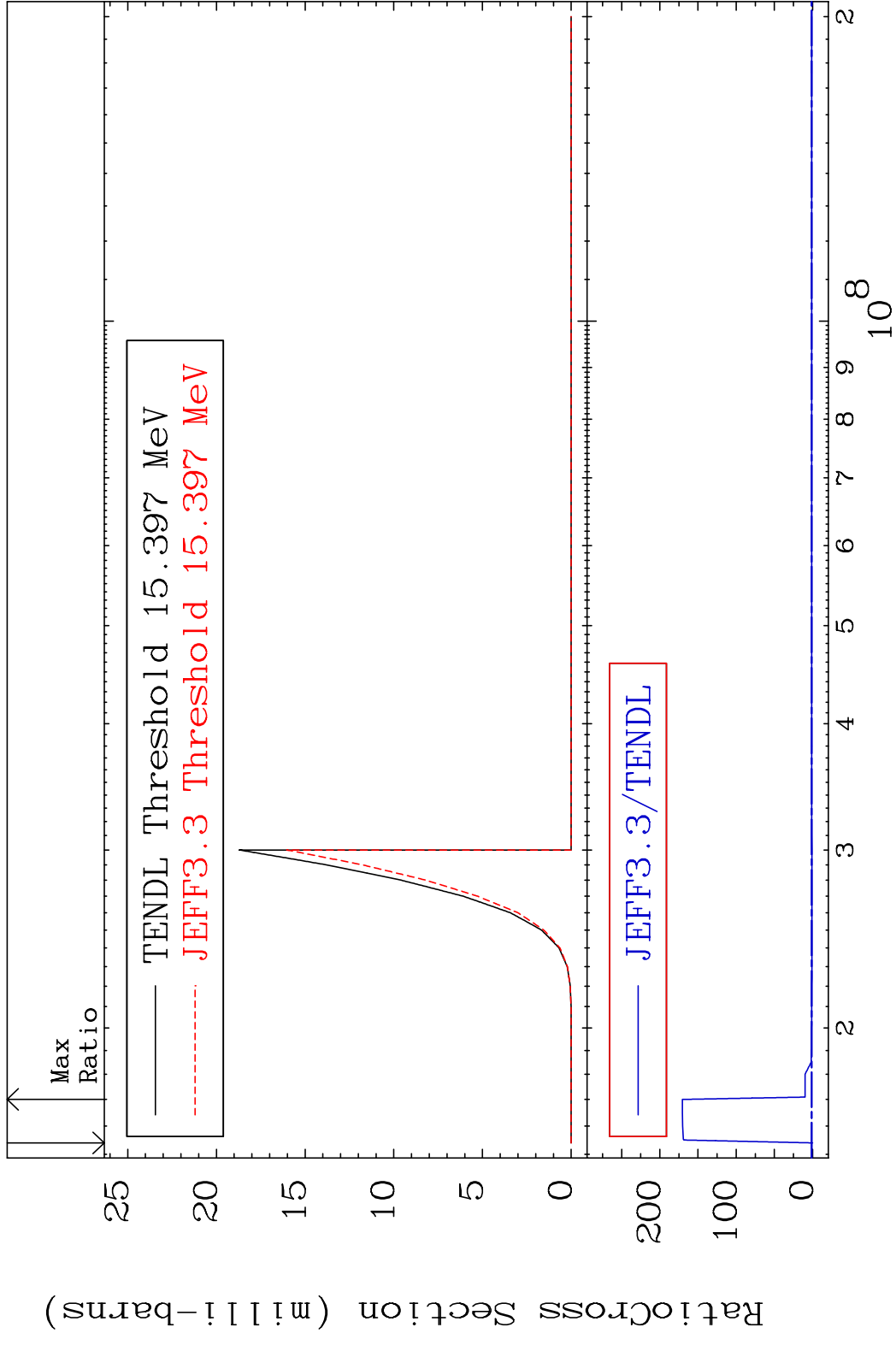


16

Incident Energy (MeV)

68-Er-166

MAT 6837 (n,2n) p 68-Er-166
 Cross Section -100.0 To 9999. %

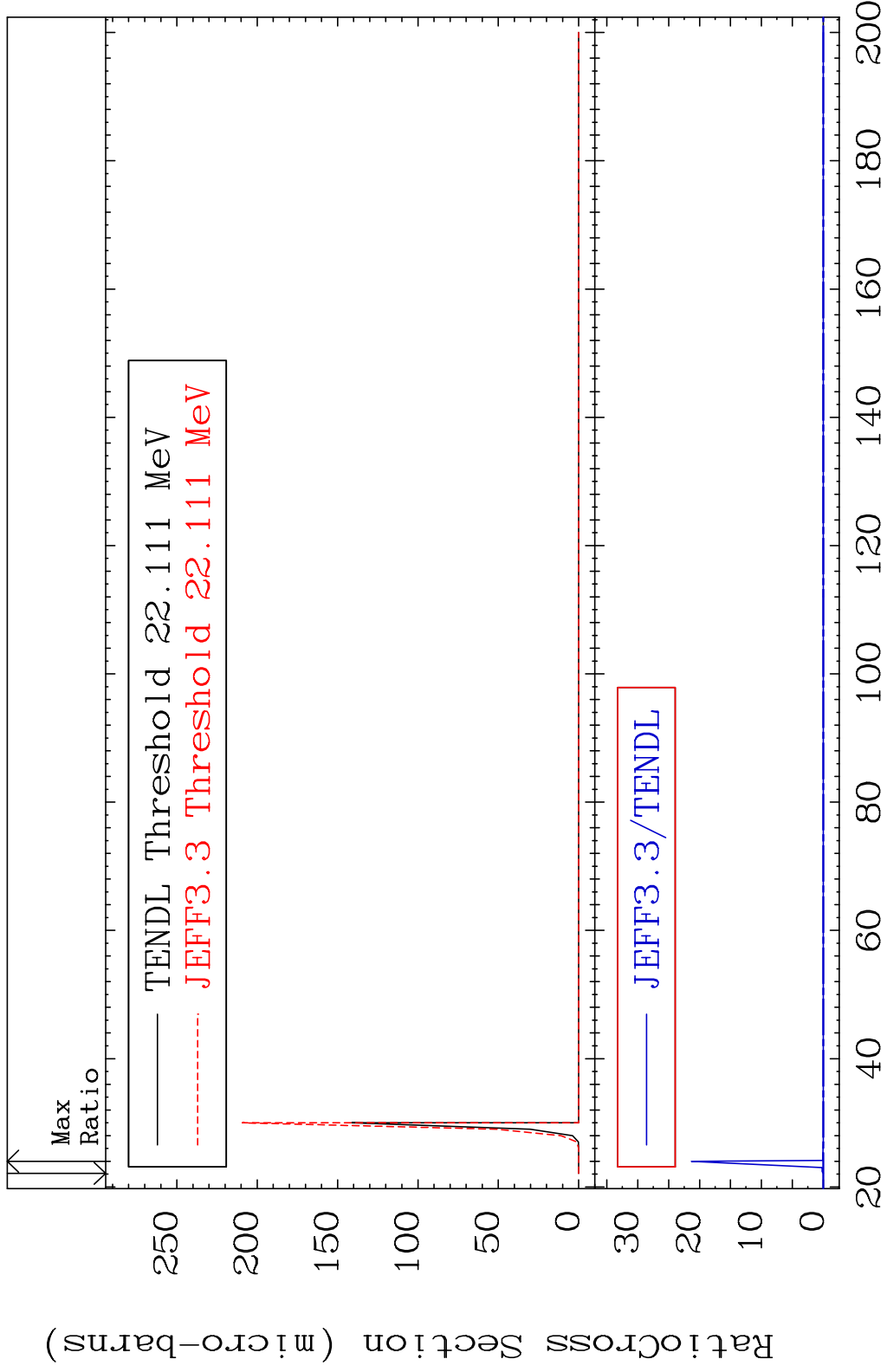


MAT 6837

(n,3n) p

68-Er-166

Cross Section -100.0 To 9999. %



18

Incident Energy (MeV)

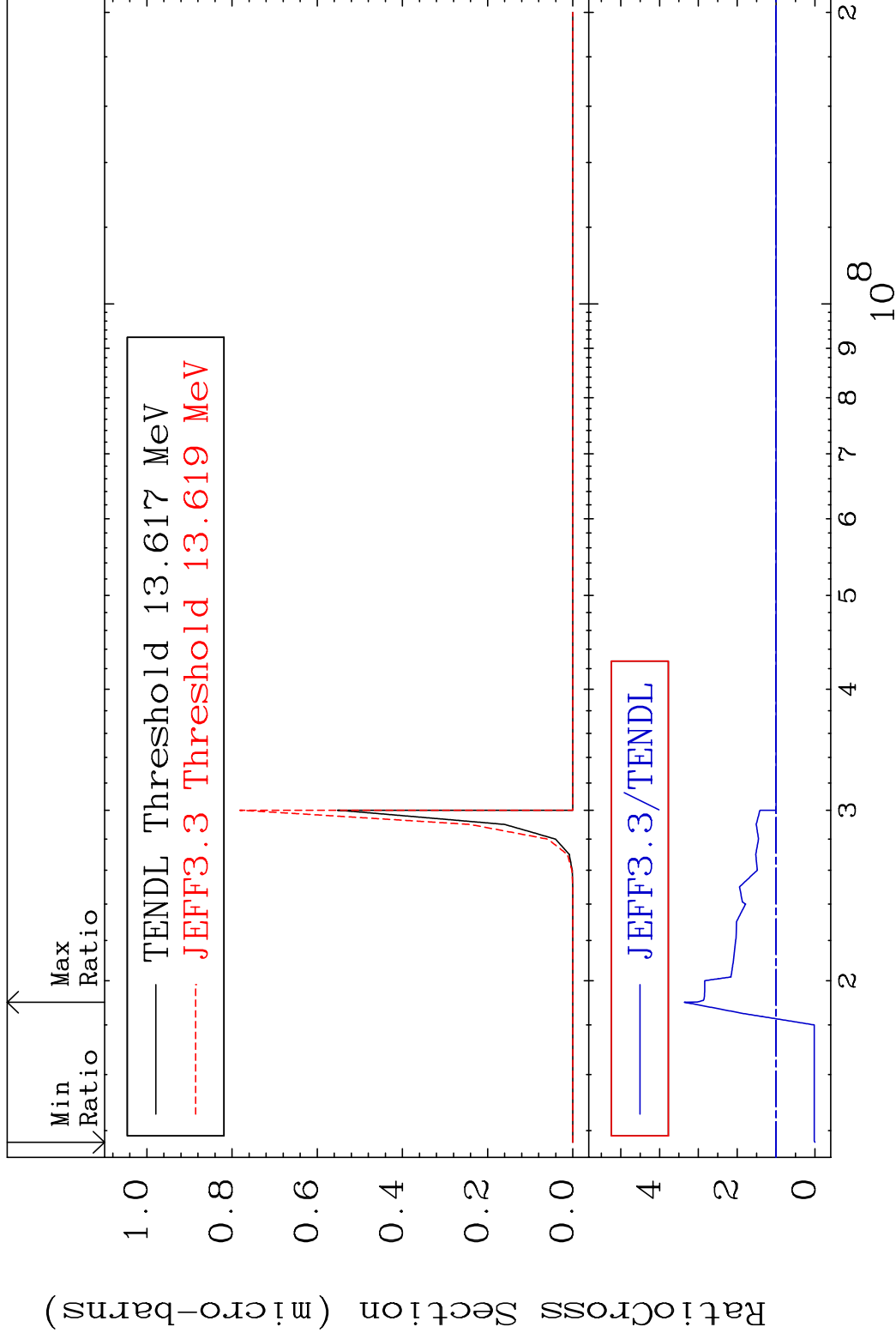
68-Er-166

MAT 6837

(n,2n) p

68-Er-166

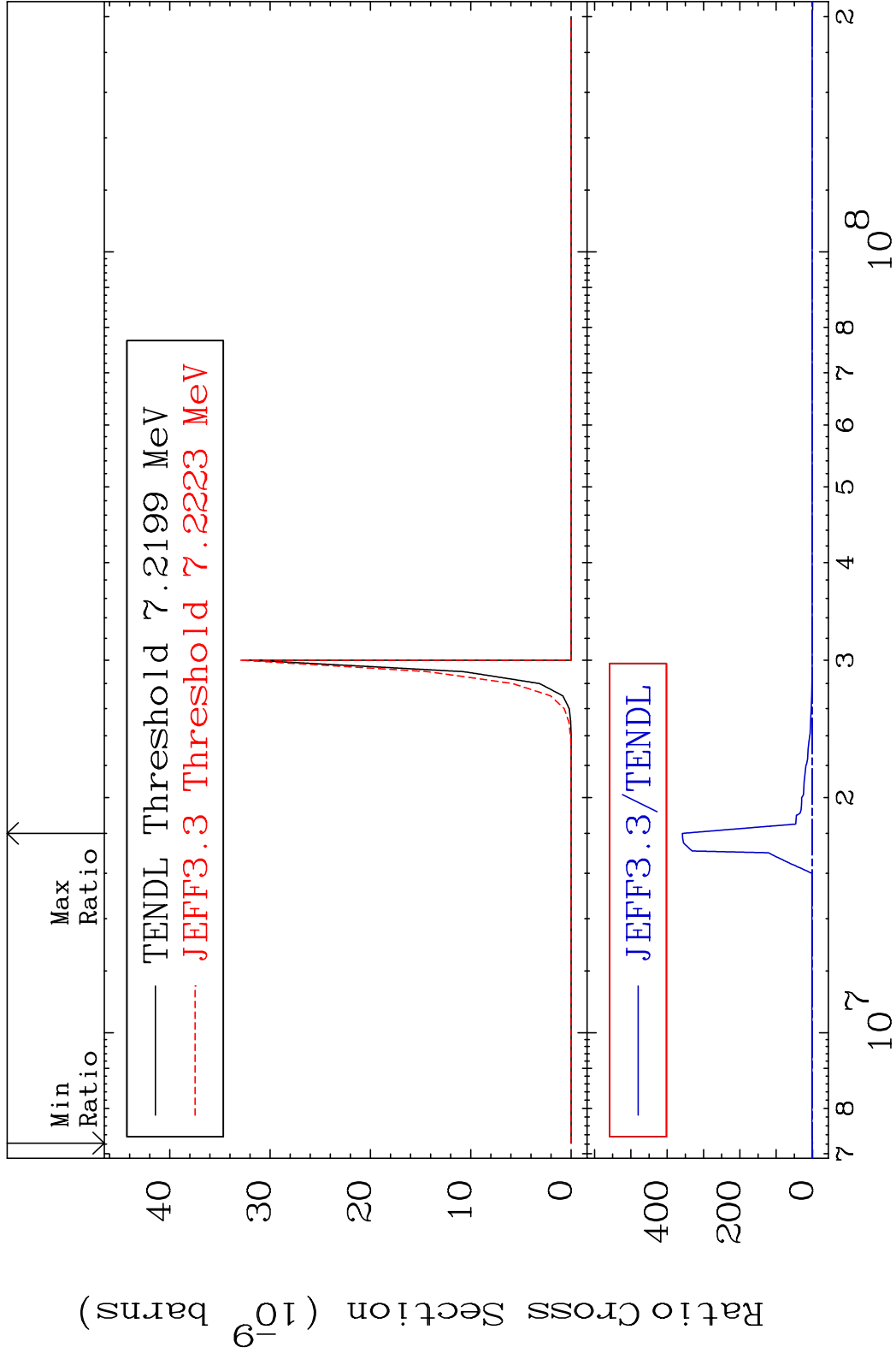
Cross Section -100.0 To 236.2 %



MAT 6837

(n,n') p α 68-Er-166

Cross Section -100.0 To 9999. %

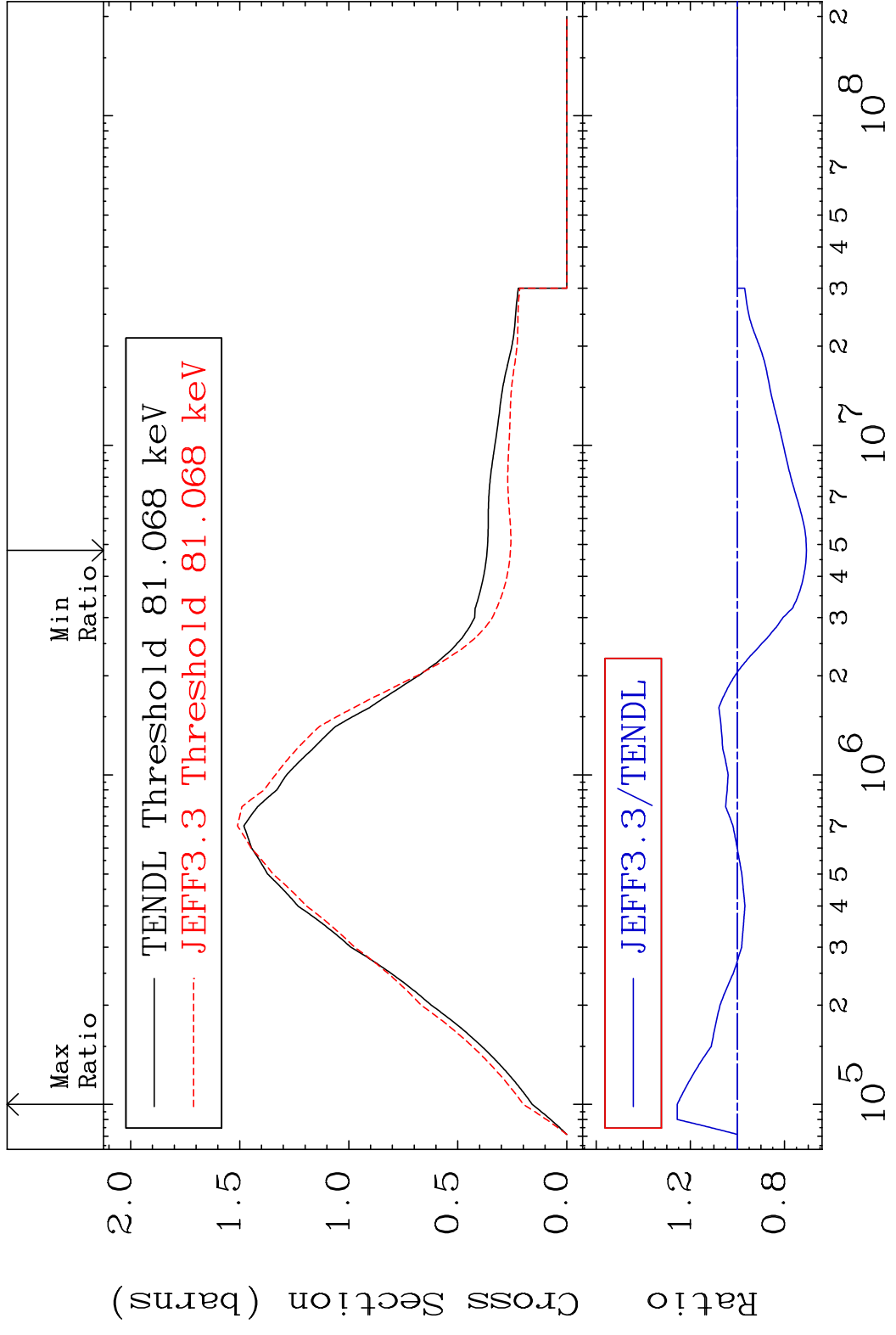


20

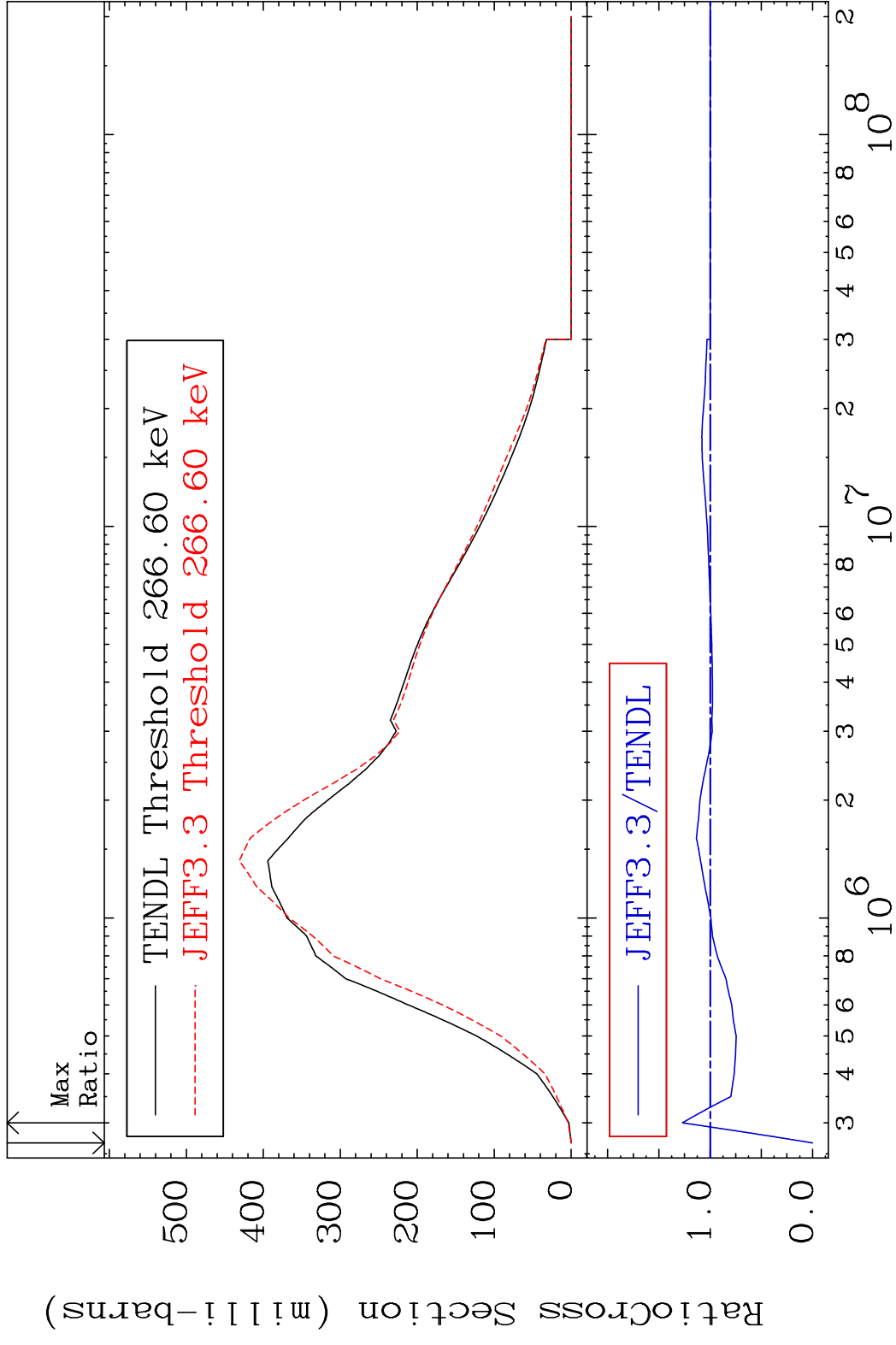
Incident Energy (eV)

68-Er-166

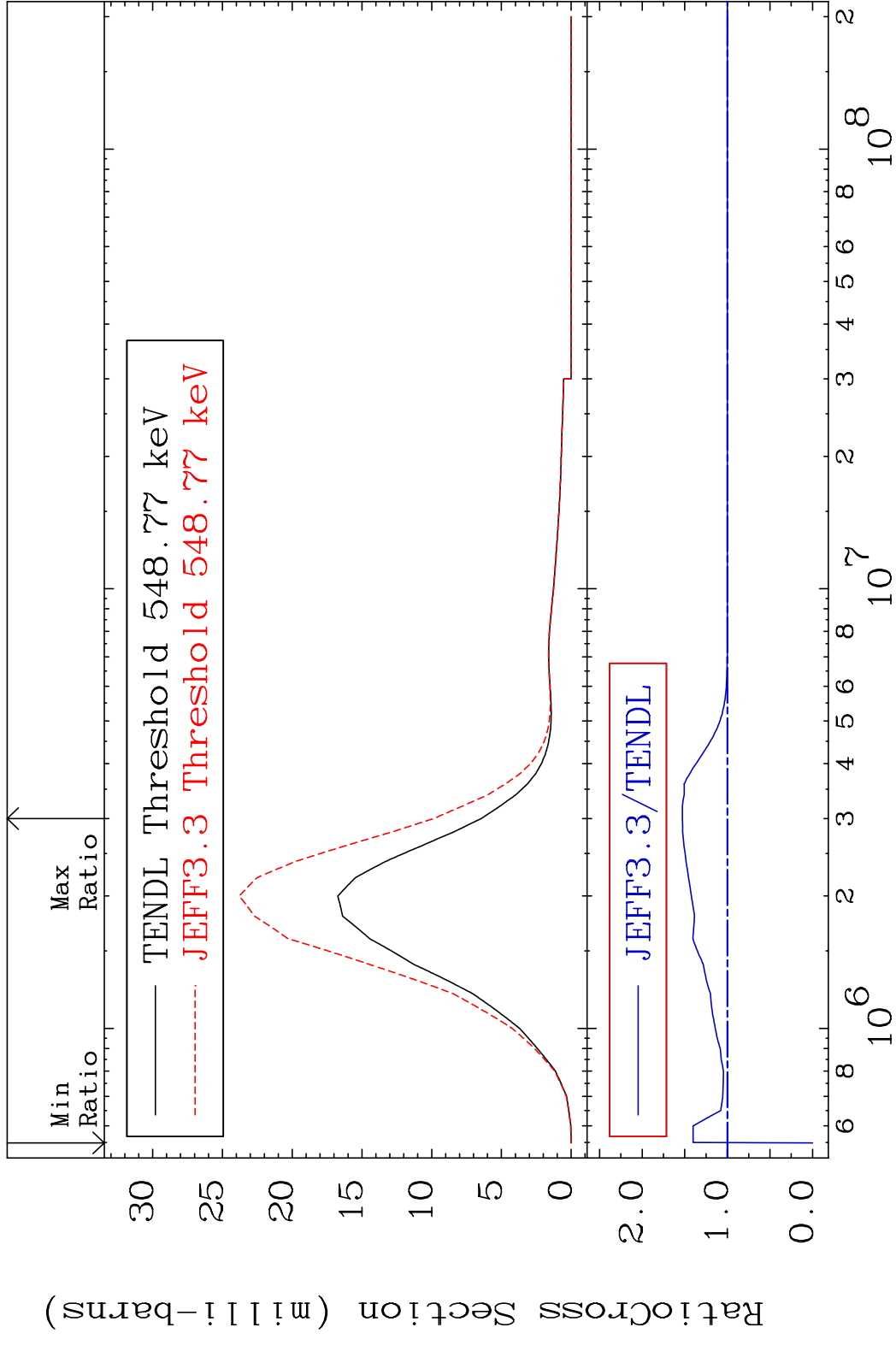
MAT 6837 MT= 51 (n, n') Level 68-Er-166
 Cross Section -29.25 To 25.61 %



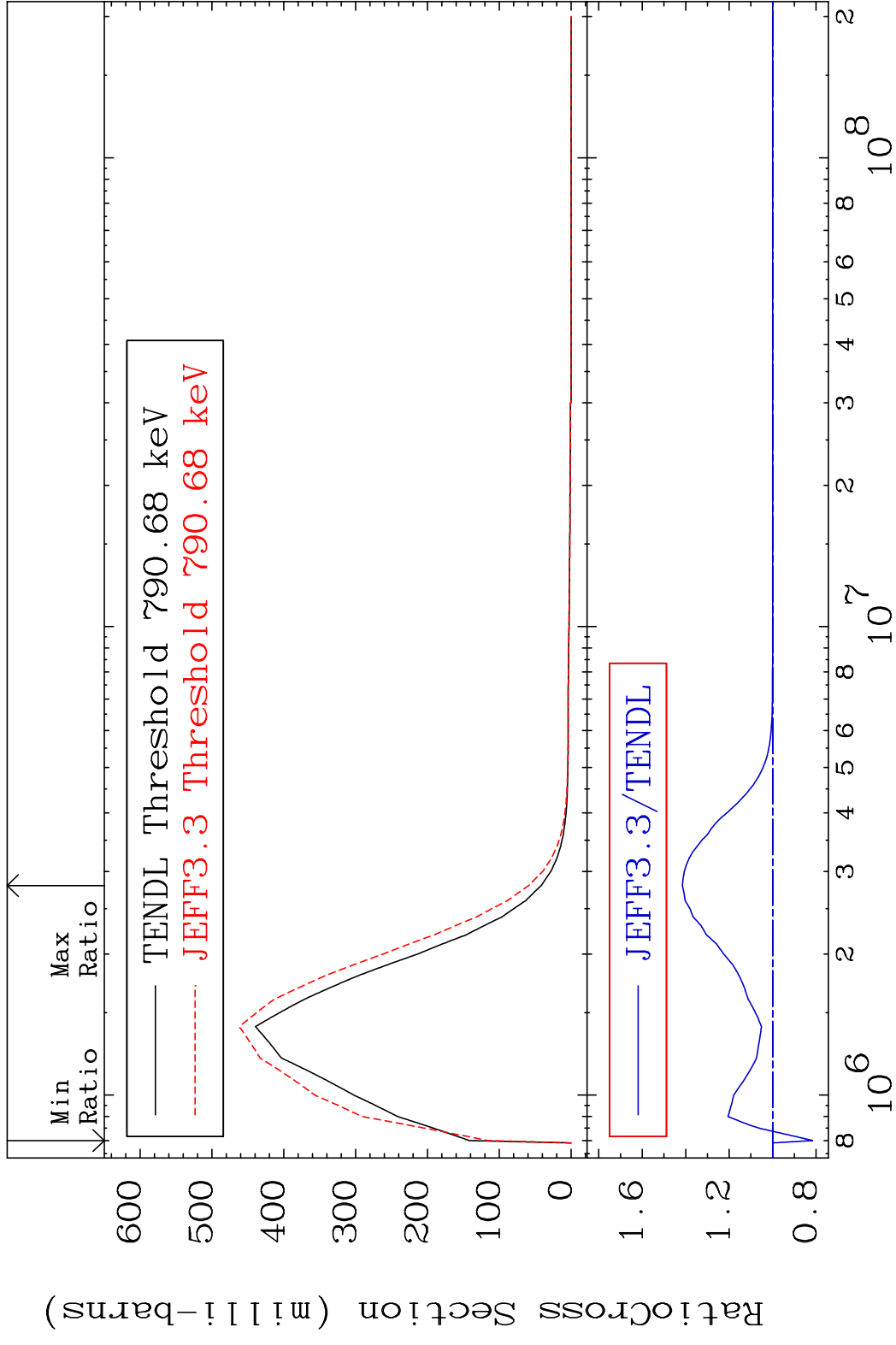
MAT 6837 MT= 52 (n, n') Level 68-Er-166
 Cross Section -100.0 To 27.11 %



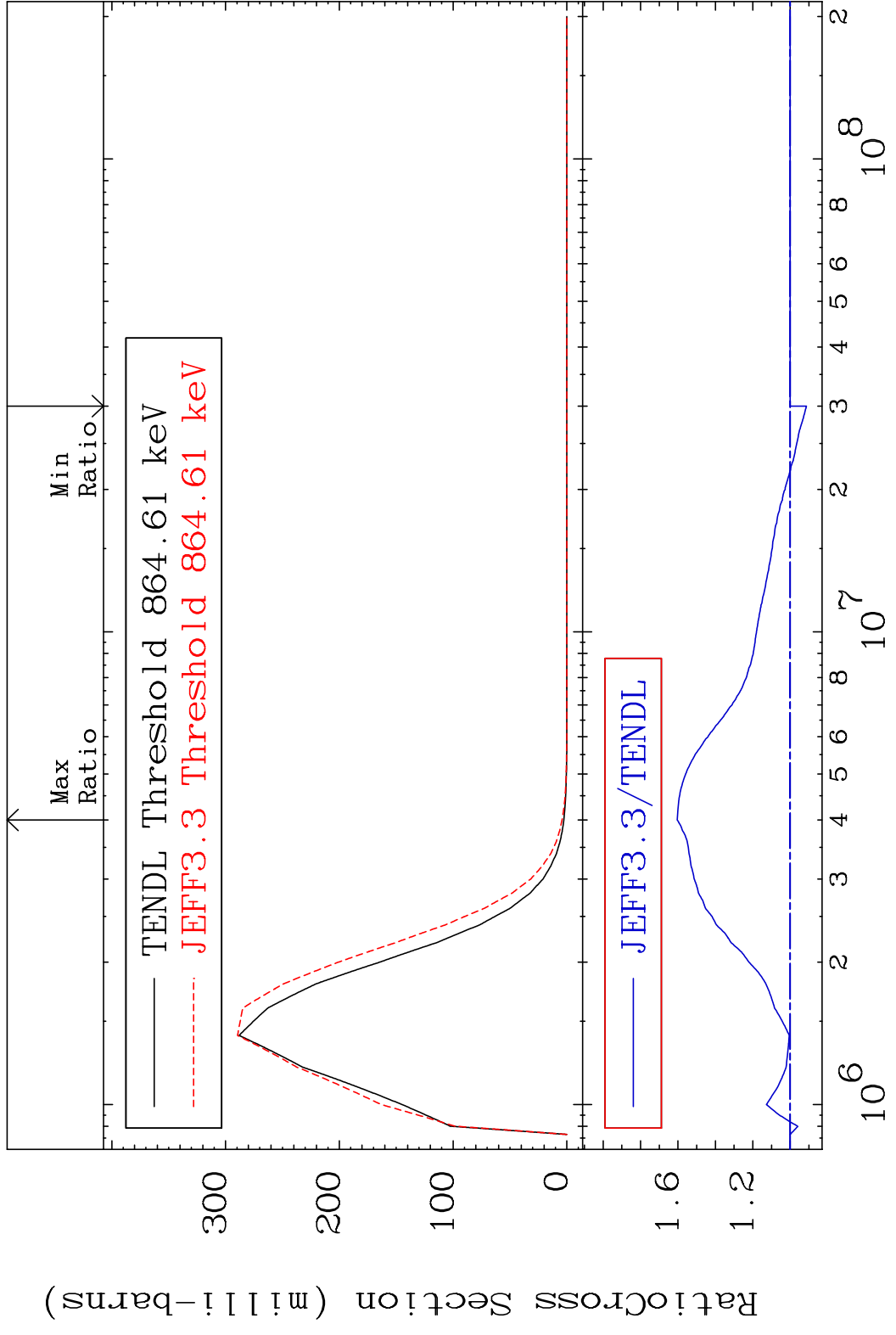
MAT 6837 MT= 53 (n, n') Level 68-Er-166
 Cross Section -100.0 To 52.82 %



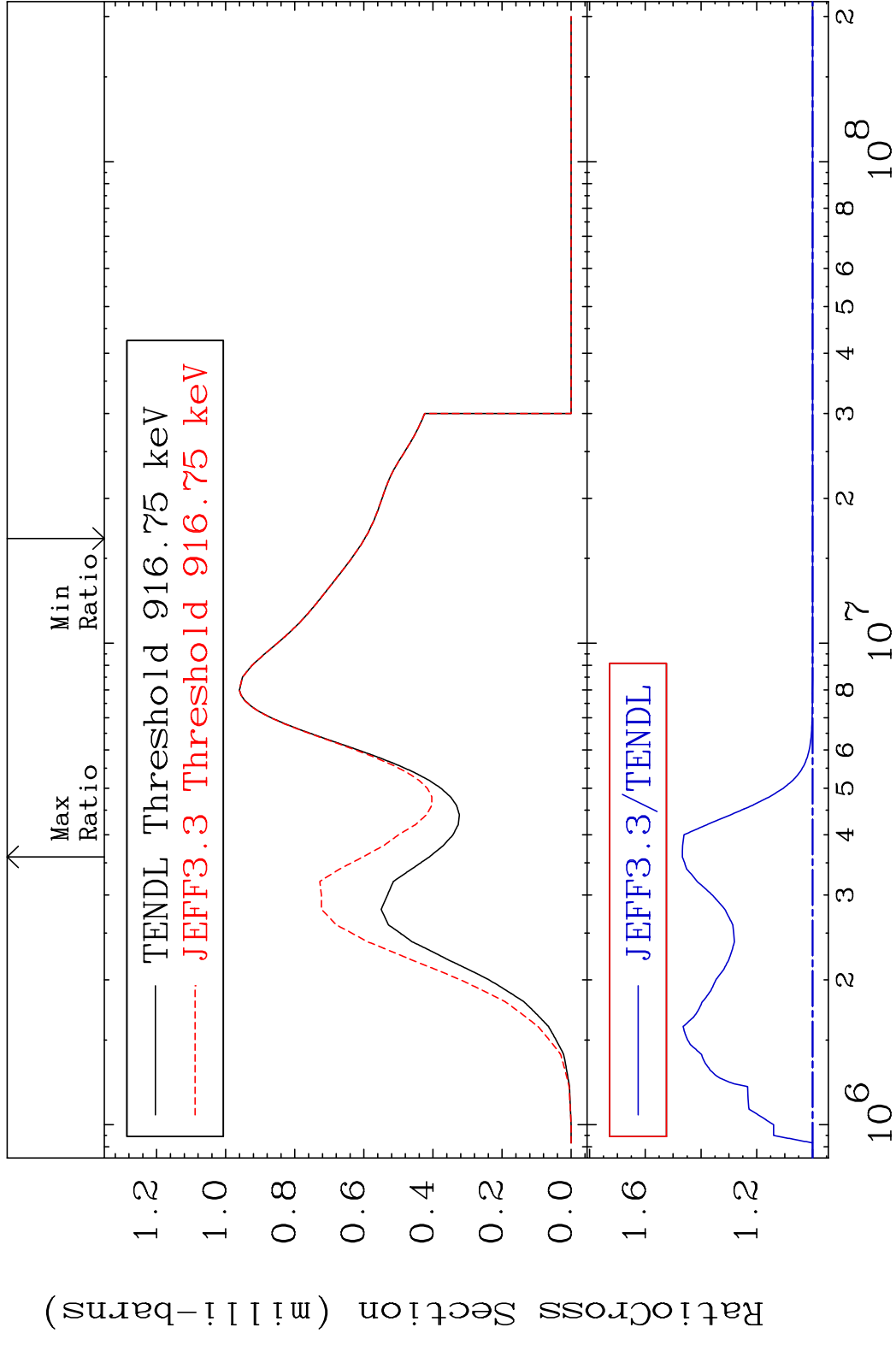
MAT 6837 MT= 54 (n,n') Level 68-Er-166
 Cross Section -18.38 To 41.54 %



MAT 6837 MT= 55 (n, n') Level 68-Er-166
 Cross Section -8.659 To 60.43 %



MAT 6837 MT= 56 (n, n') Level 68-Er-166
 Cross Section 0.000 To 46.70 %



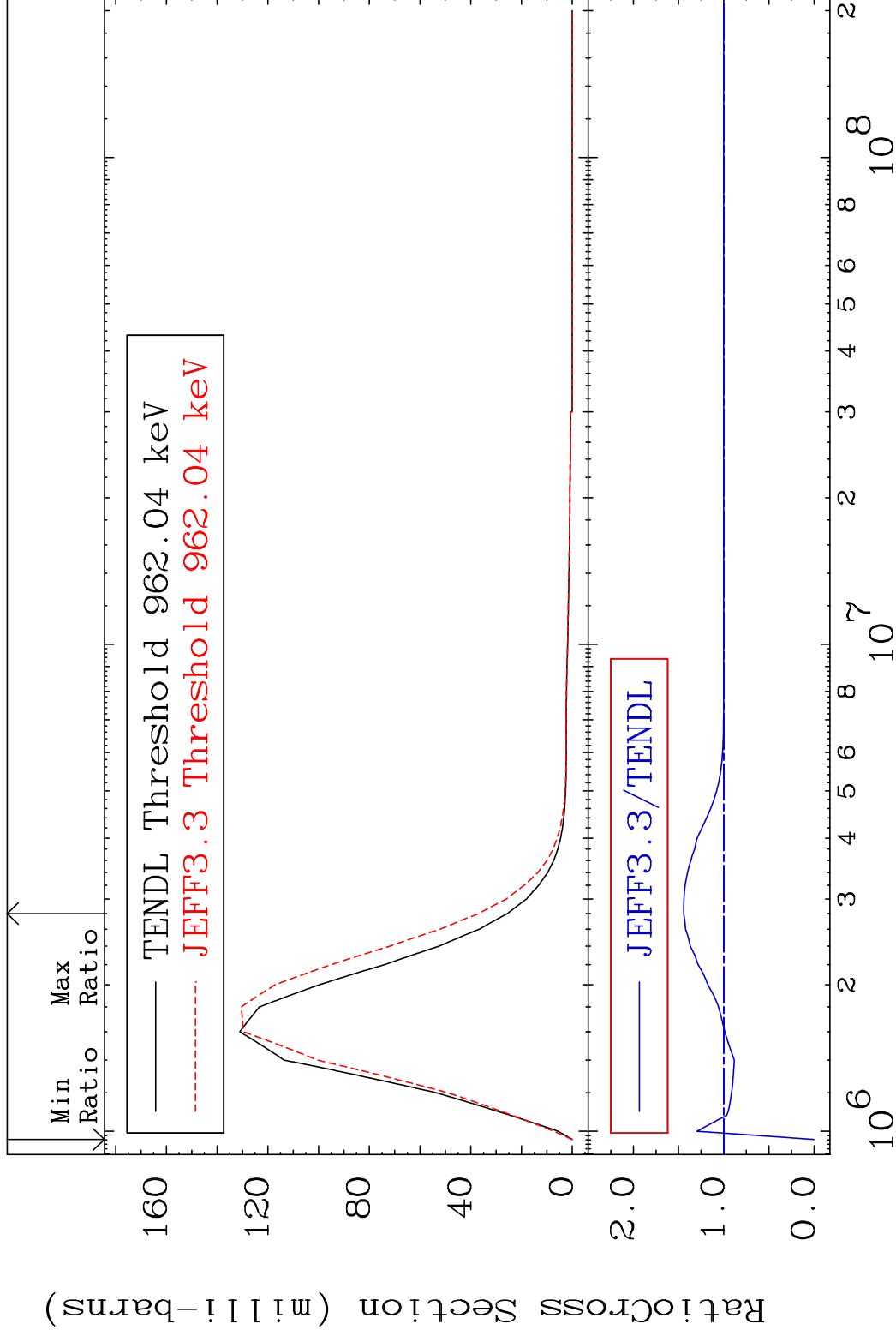
26 Incident Energy (eV) 68-Er-166

MAT 6837

MT= 57 (n,n') Level

68-Er-166

Cross Section -100.0 To 44.34 %

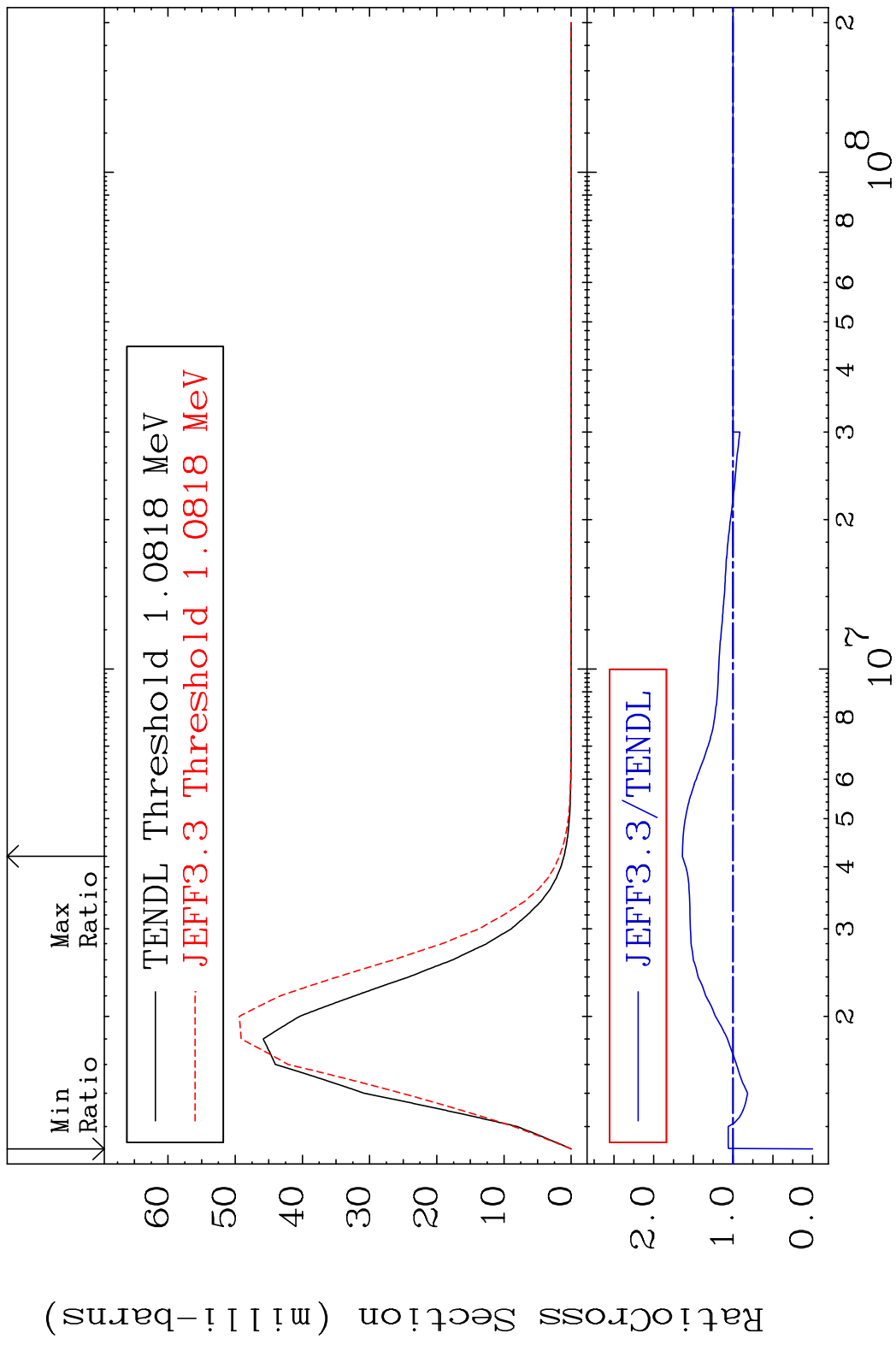


27

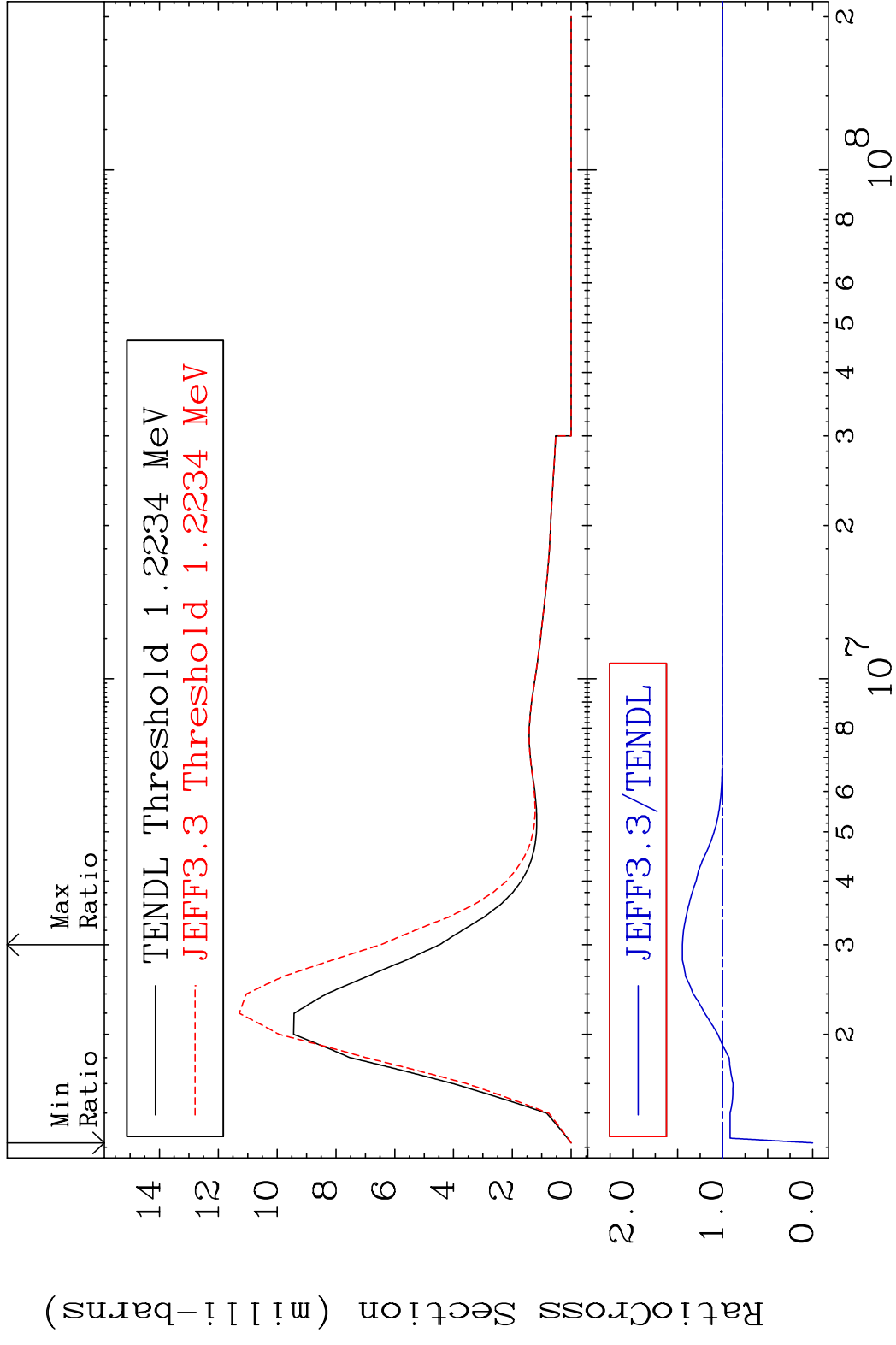
Incident Energy (eV)

68-Er-166

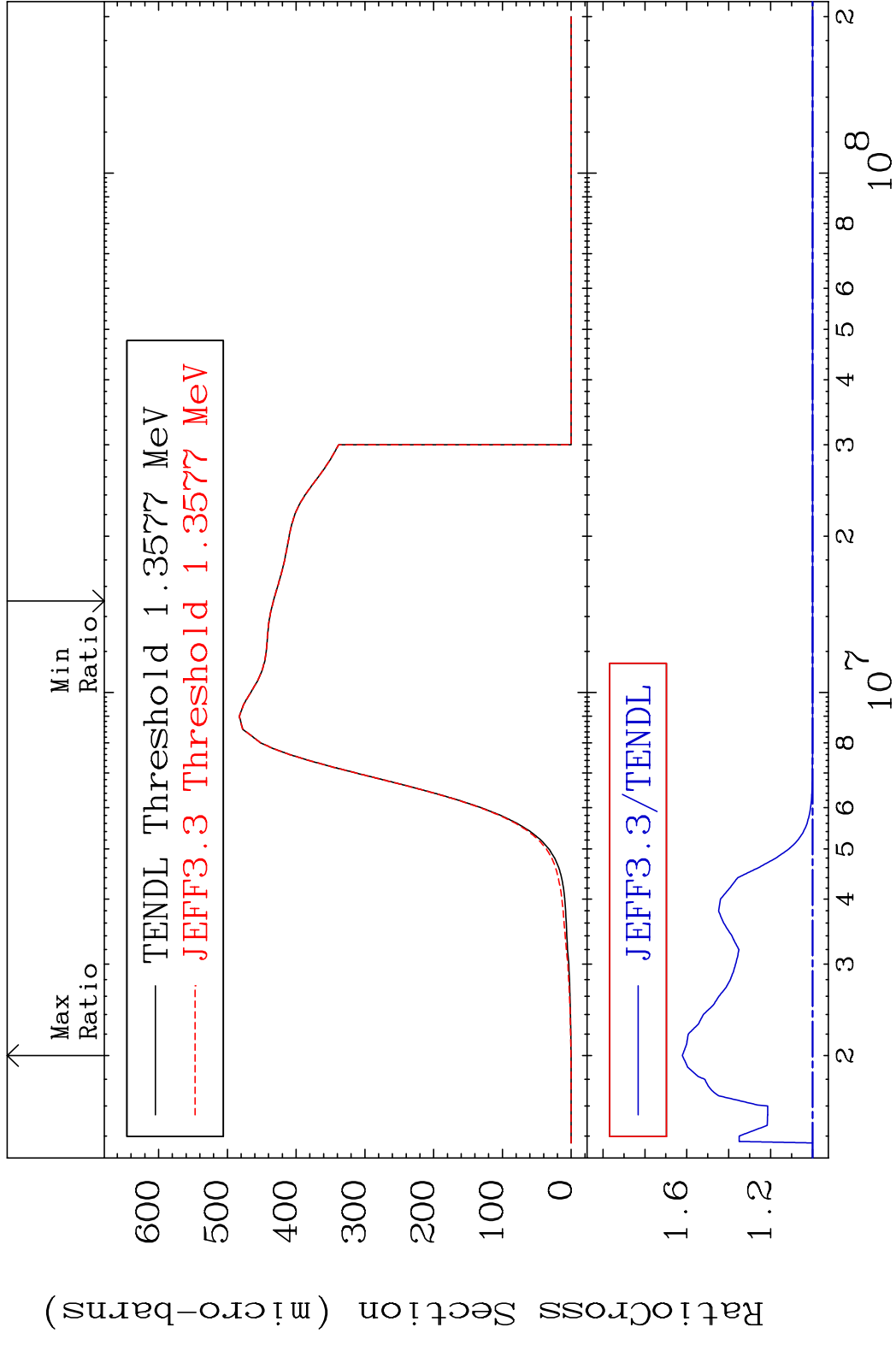
MAT 6837 MT= 58 (n, n') Level 68-Er-166
 Cross Section -100.0 To 63.86 %



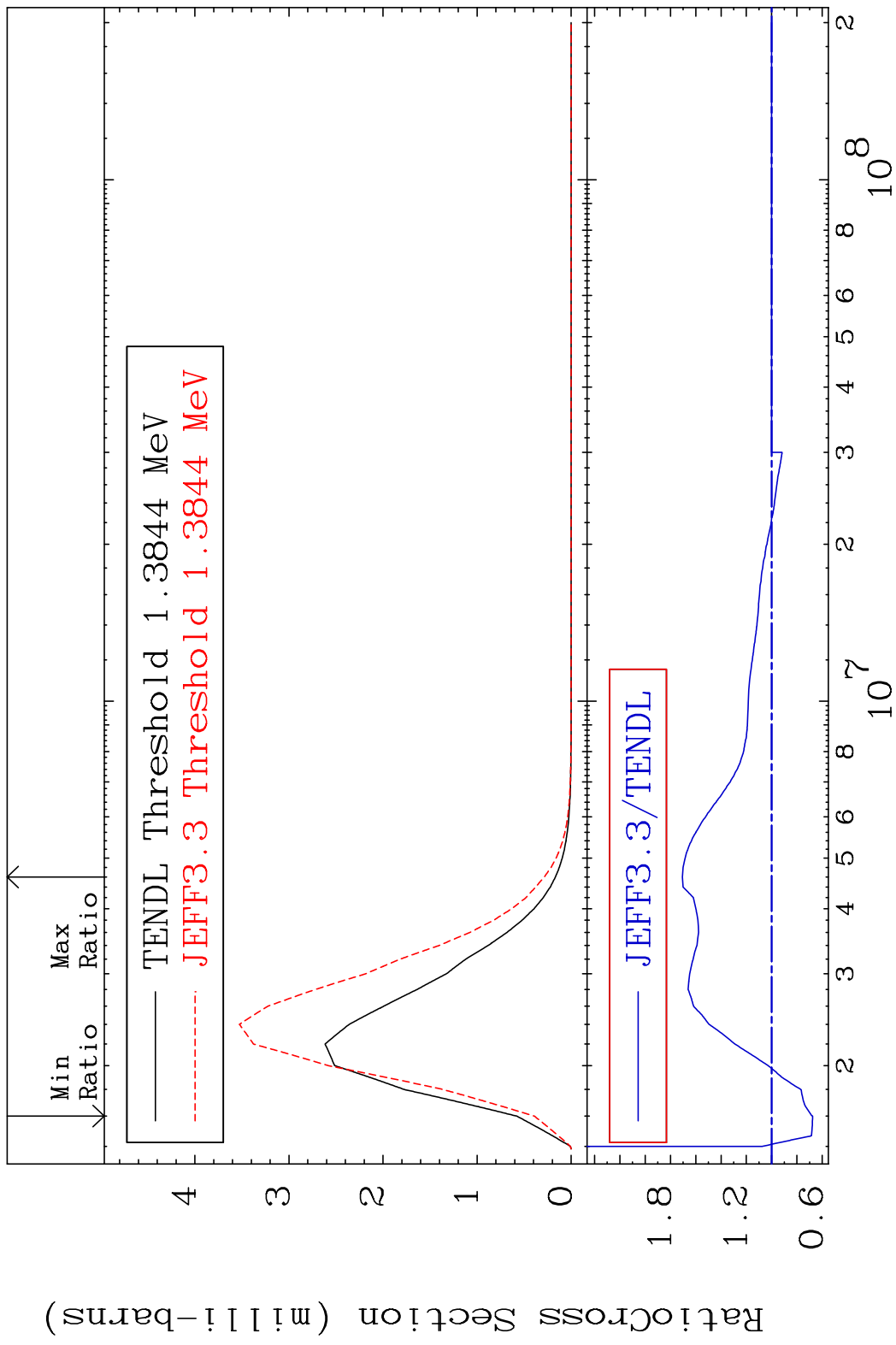
MAT 6837 MT= 59 (n,n') Level 68-Er-166
 Cross Section -100.0 To 44.74 %



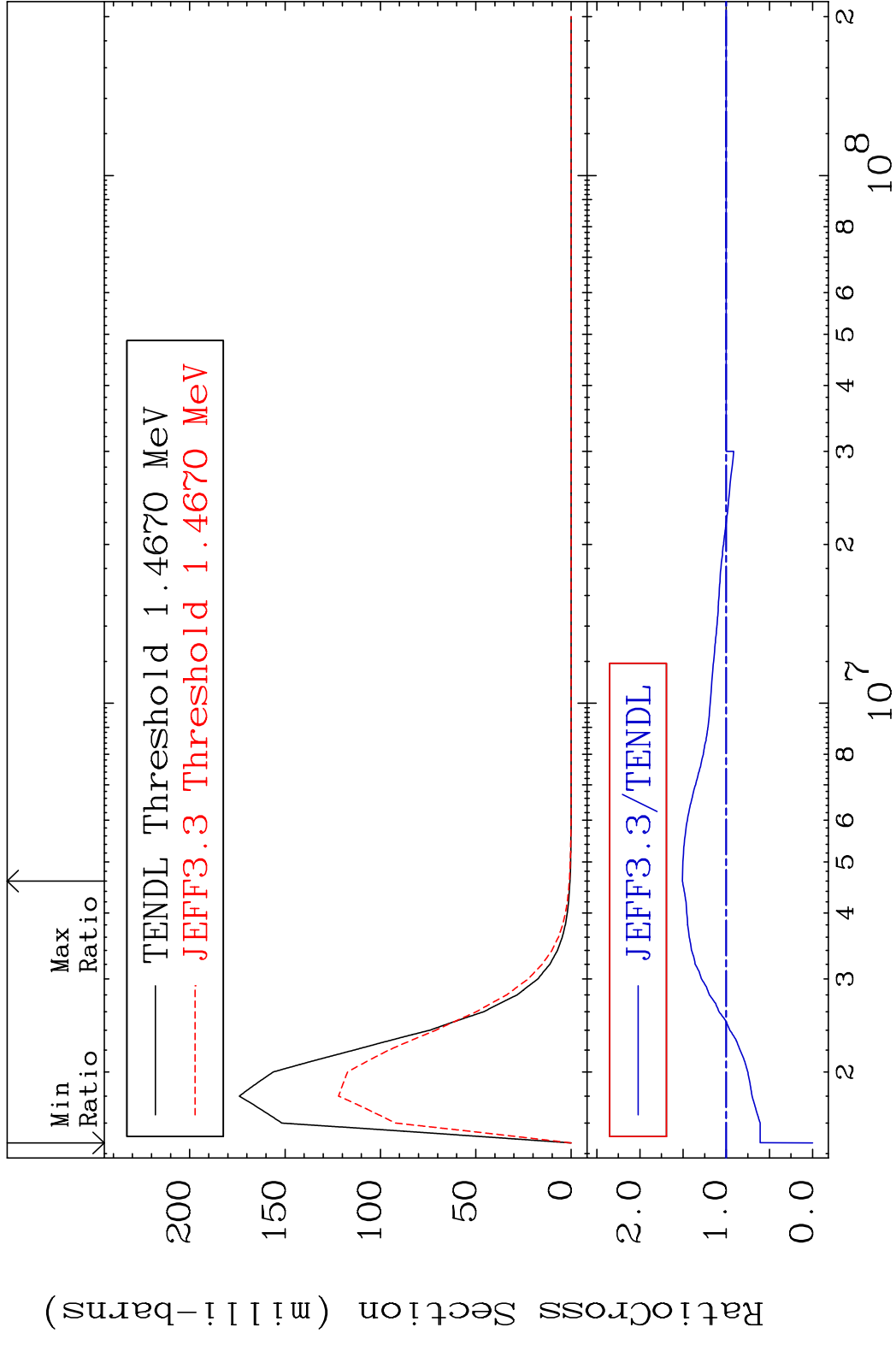
MAT 6837 MT= 60 (n, n') Level 68-Er-166
 Cross Section 0.000 To 62.12 %



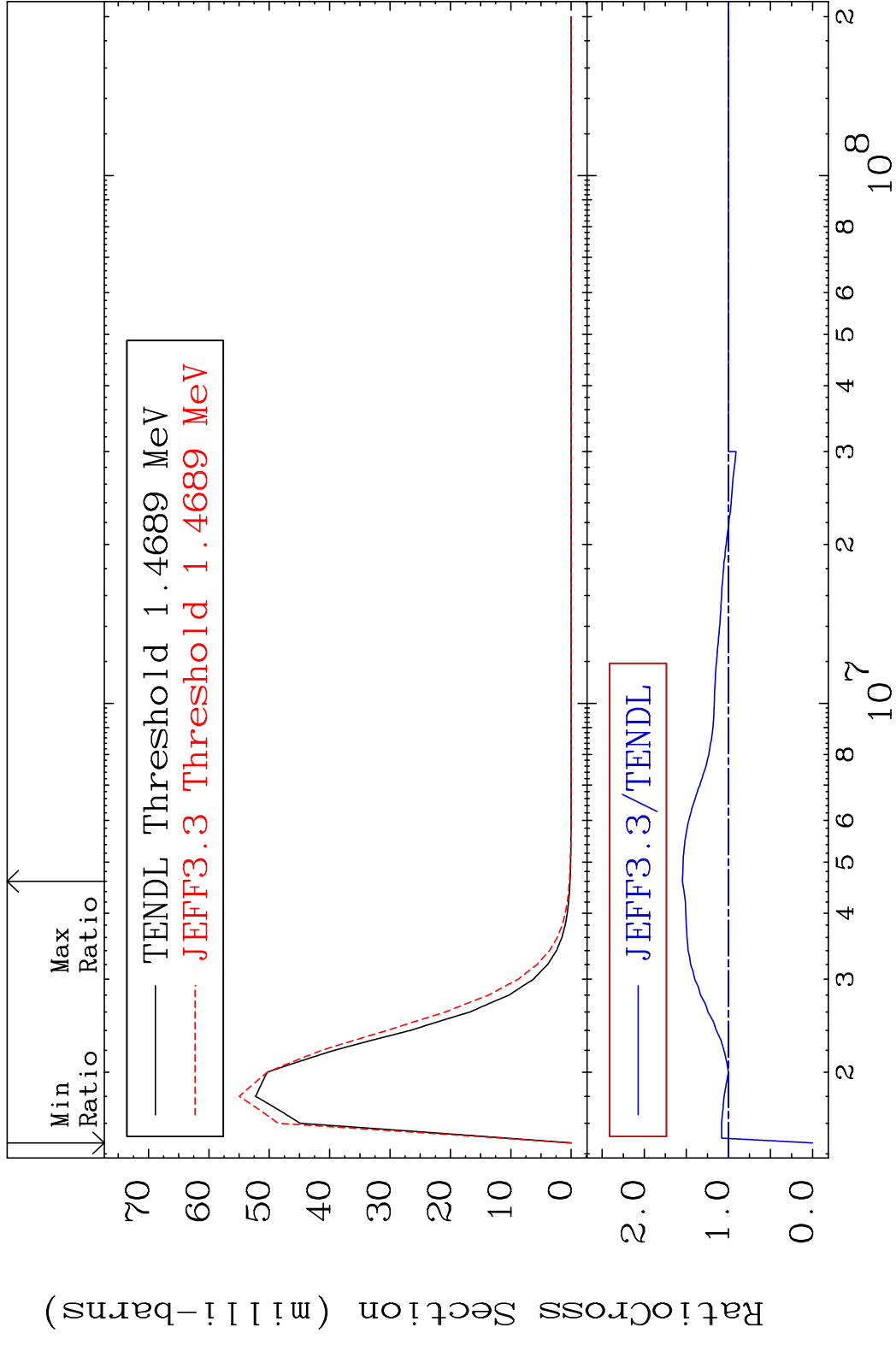
MAT 6837 MT= 61 (n,n') Level 68-Er-166
 Cross Section -32.31 To 70.57 %



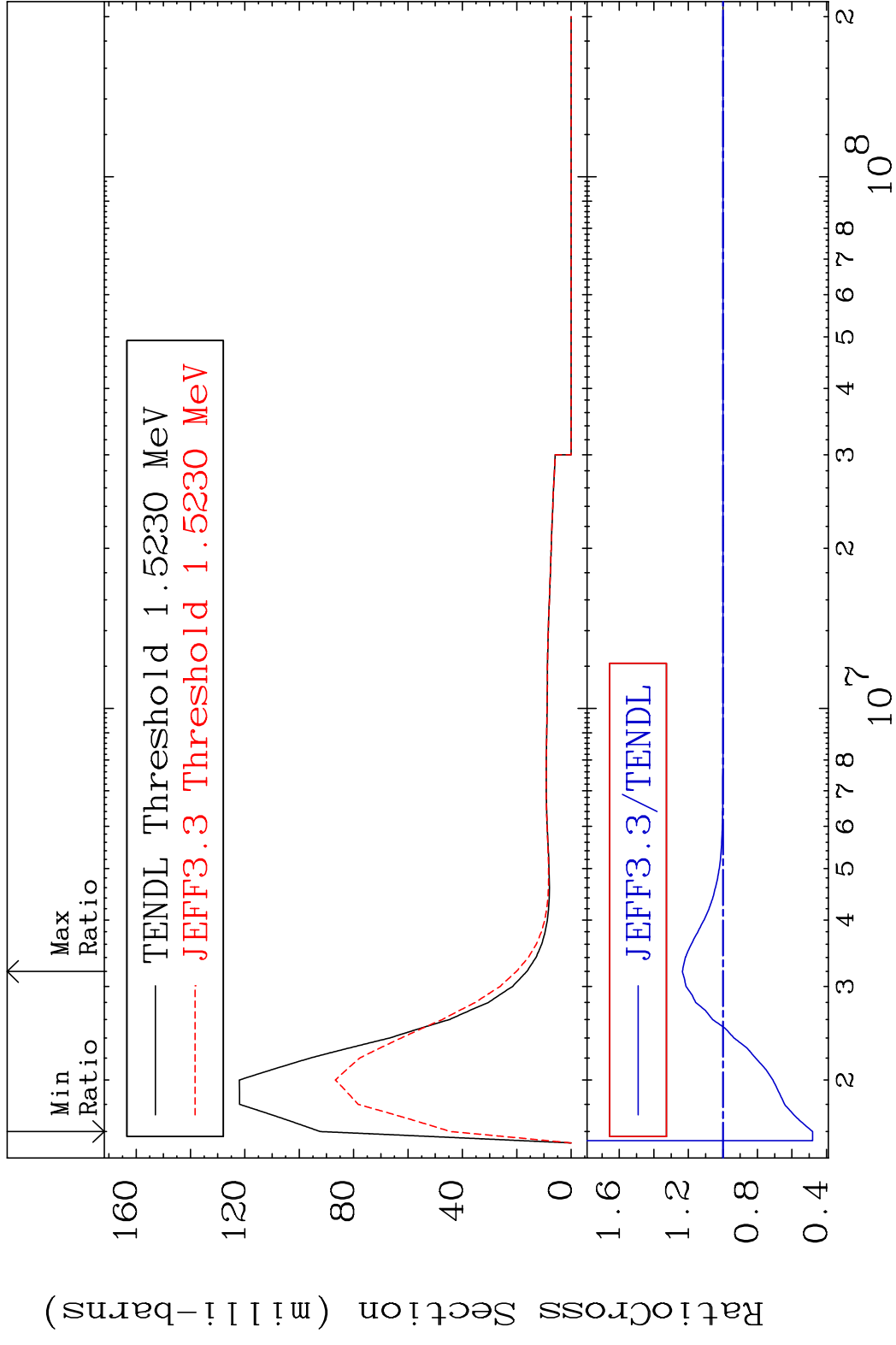
MAT 6837 MT= 62 (n, n') Level 68-Er-166
 Cross Section -100.0 To 50.85 %



MAT 6837 MT= 63 (n, n') Level 68-Er-166
 Cross Section -100.0 To 54.74 %



MAT 6837 MT= 64 (n,n') Level 68-Er-166
 Cross Section -51.93 To 23.49 %

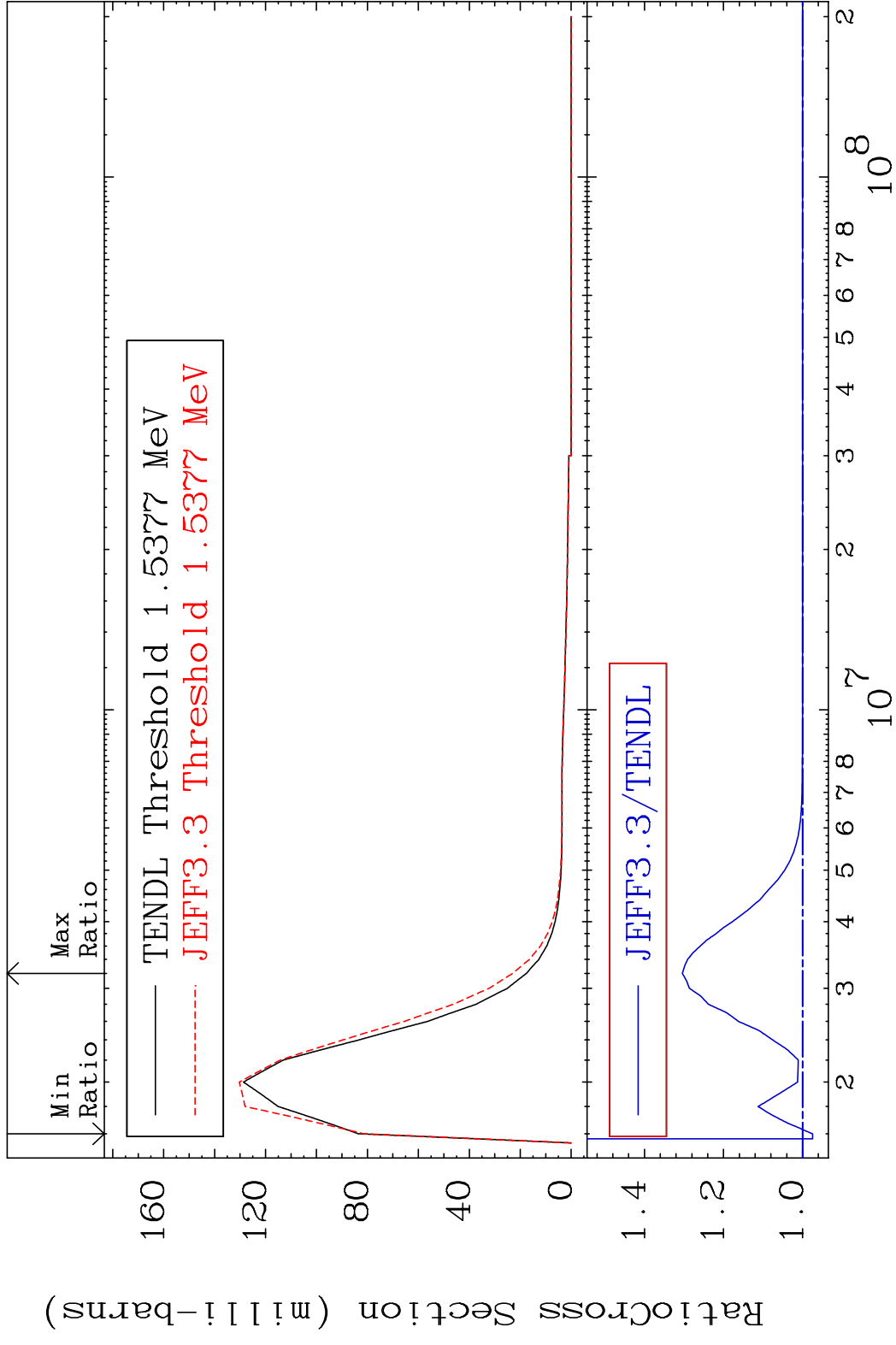


MAT 6837

MT= 65 (n,n') Level

68-Er-166

Cross Section -2.536 To 30.41 %

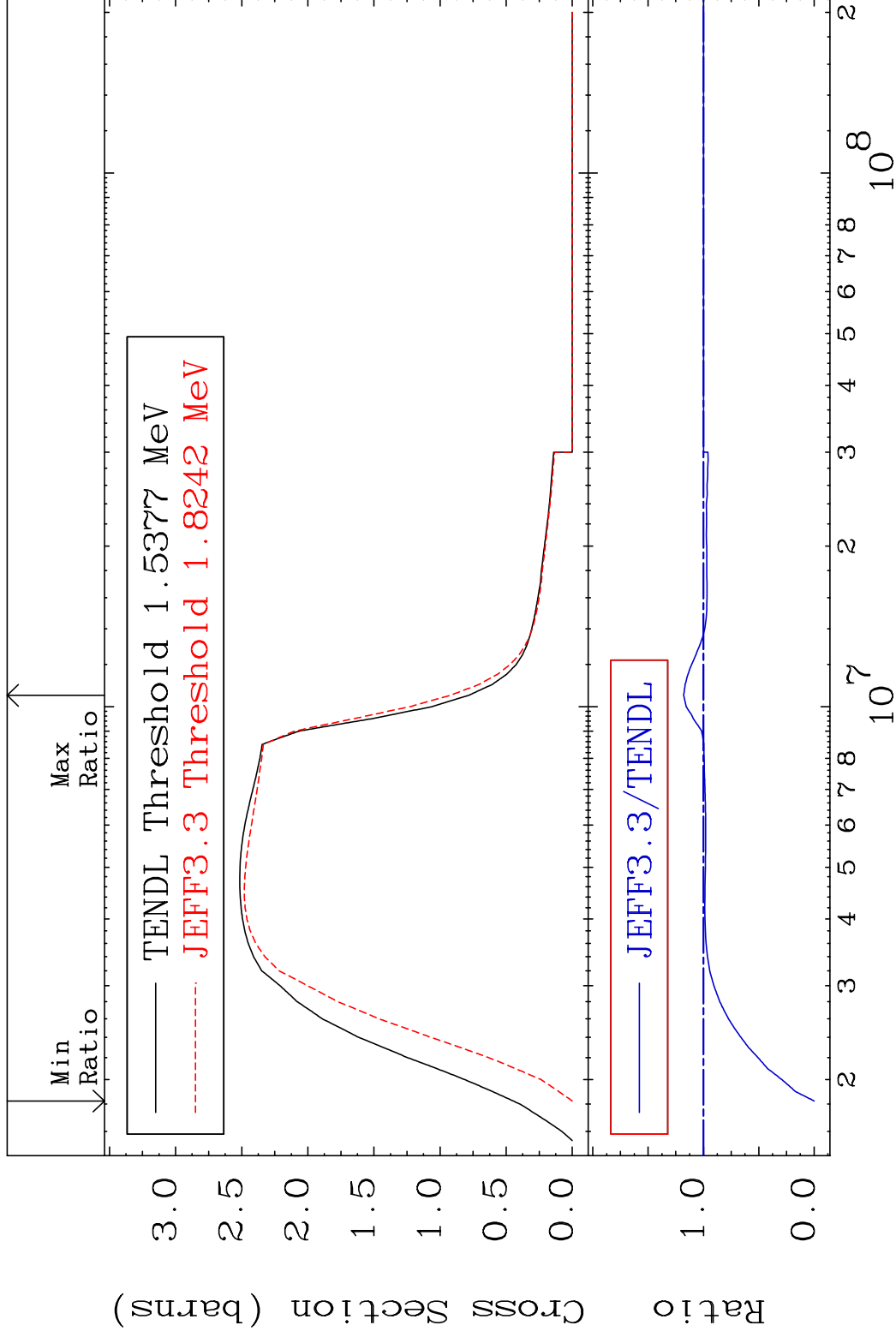


MAT 6837

(n, n') Continuum

68-Er-166

Cross Section -100.0 To 17.90 %



36

Incident Energy (eV)

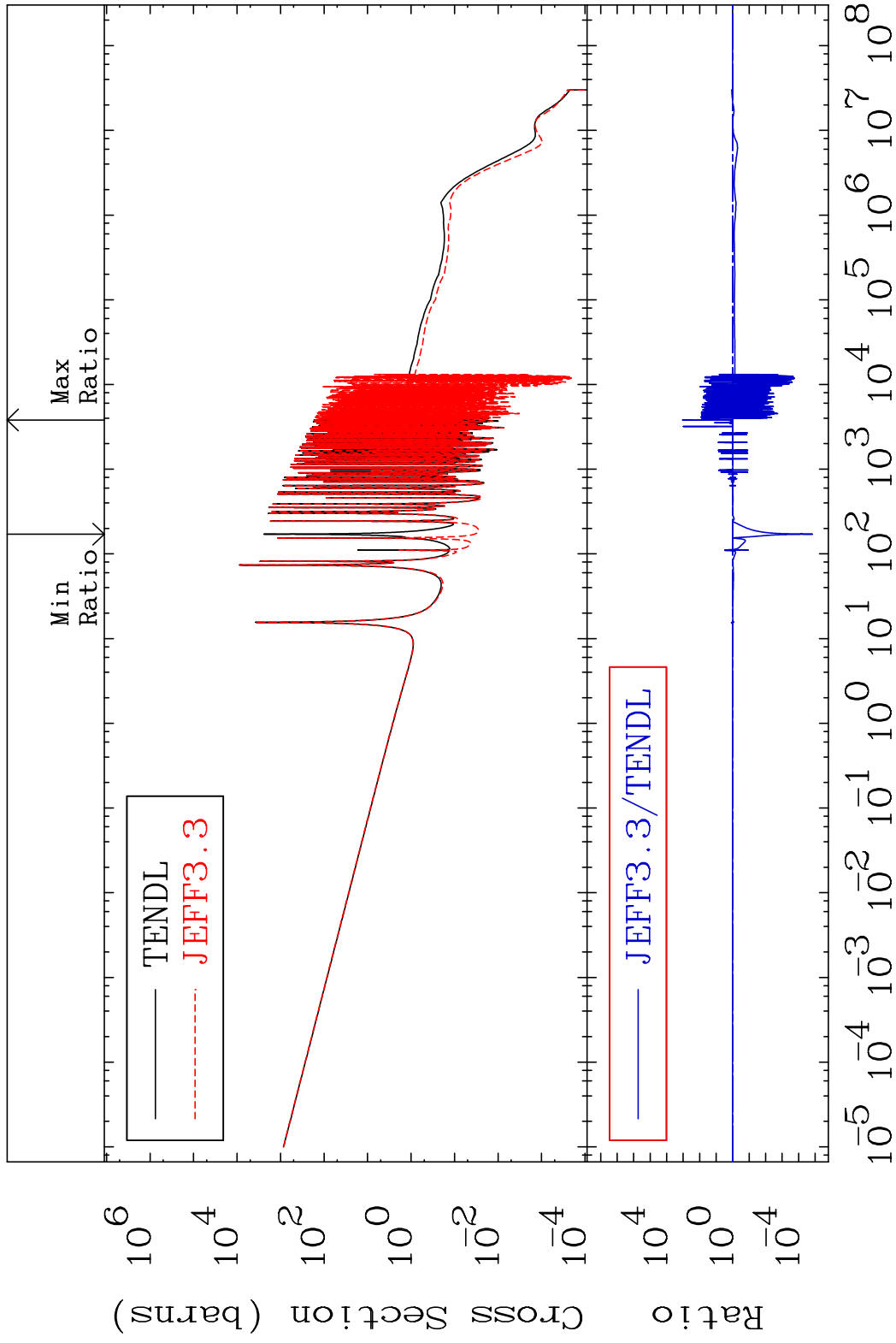
68-Er-166

MAT 6837

(n, γ)

68-Er-166

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

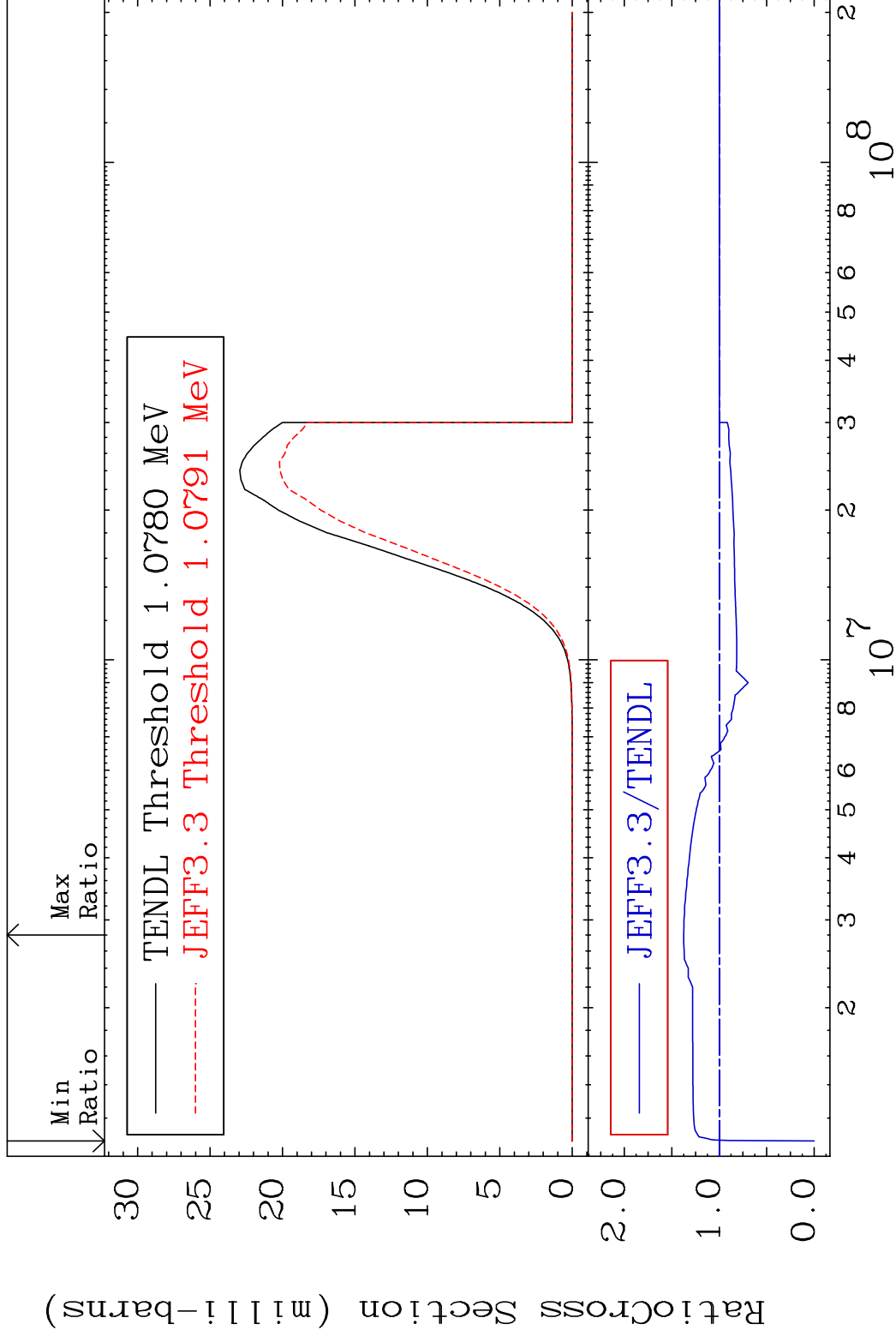
68-Er-166

MAT 6837

(n,p)

68-Er-166

Cross Section -100.0 To 37.51 %



38

Incident Energy (eV)

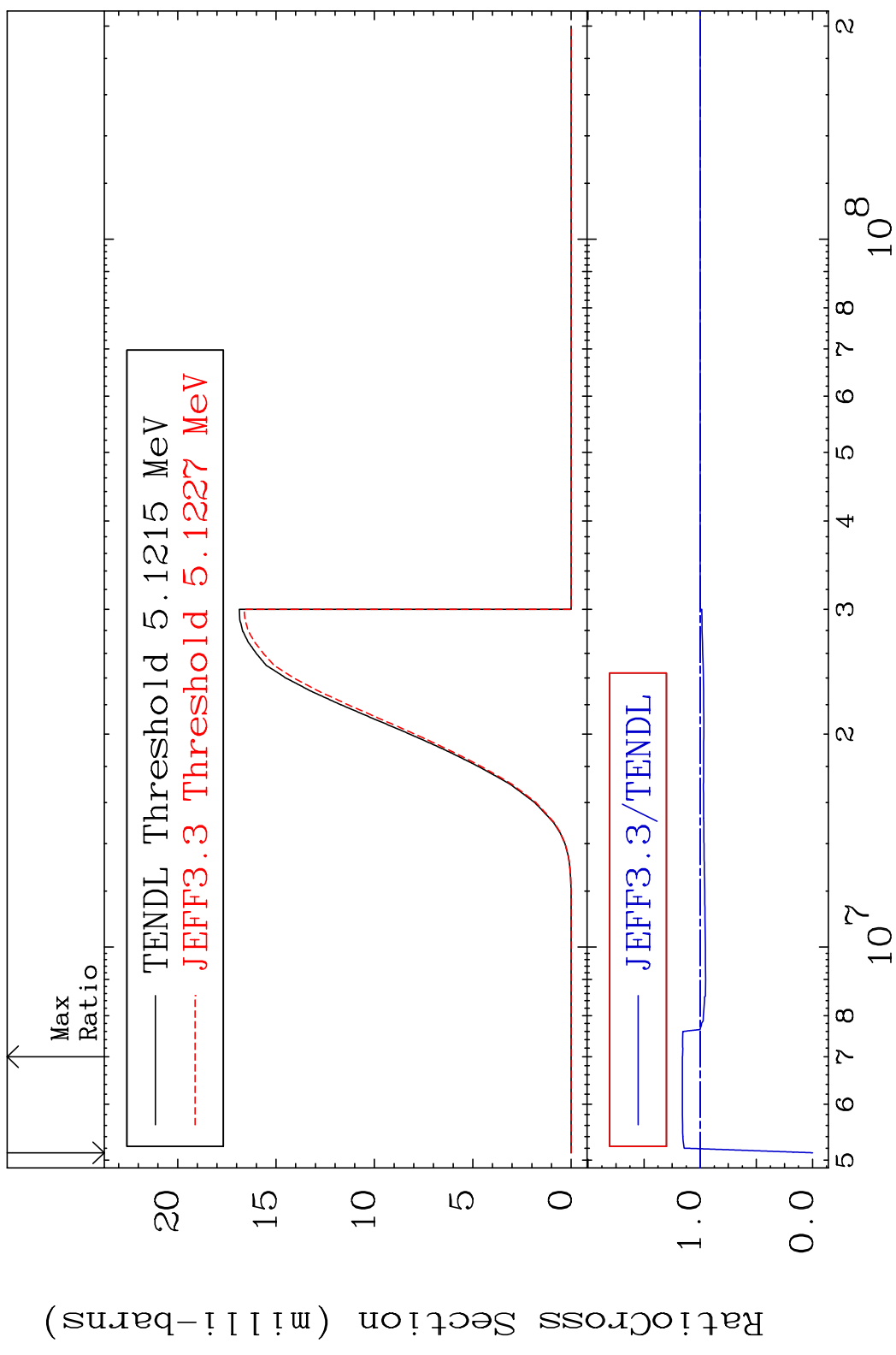
68-Er-166

MAT 6837

(n,d)

68-Er-166

Cross Section -100.0 To 15.90 %

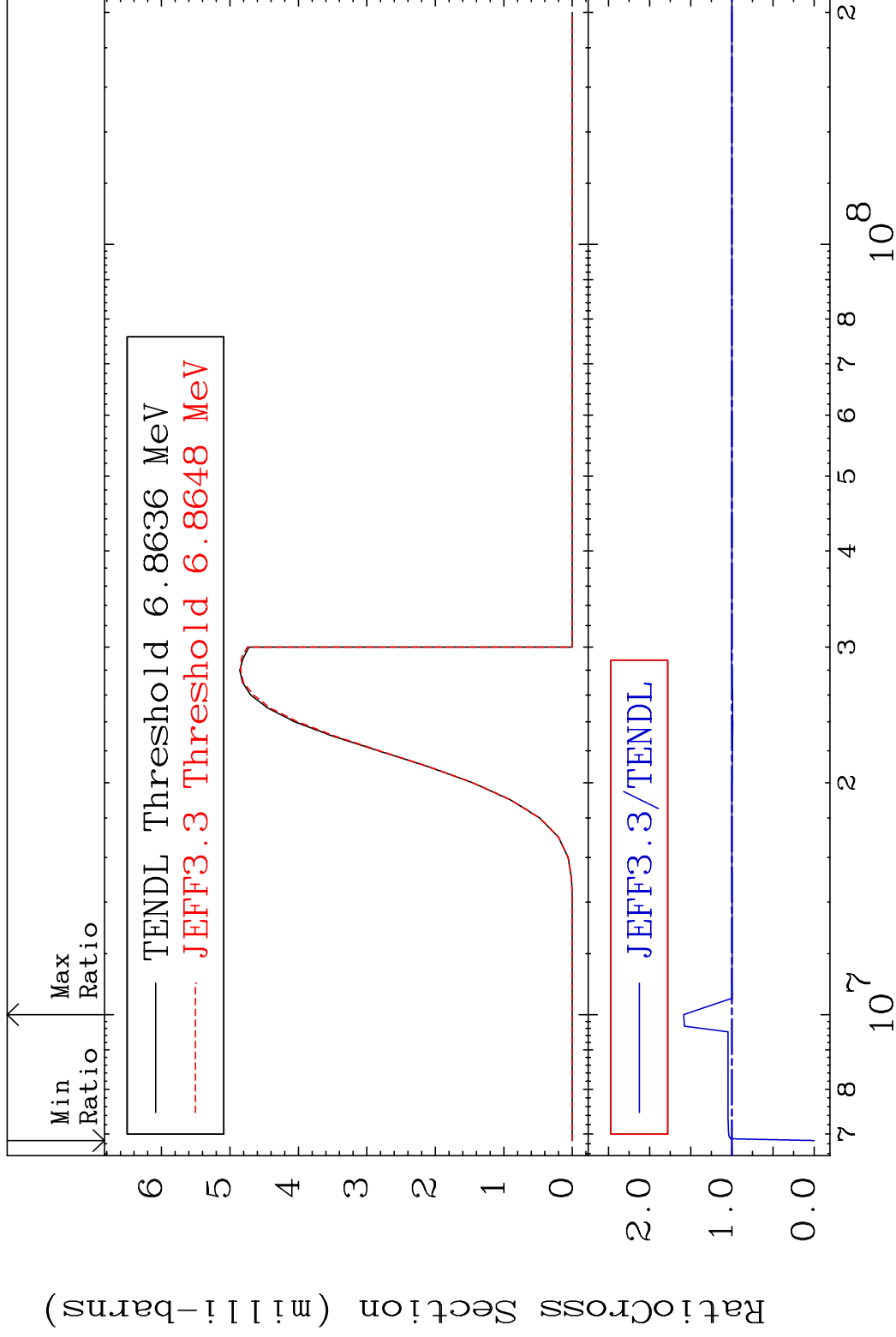


MAT 6837

(n, t)

68-Er-166

Cross Section -100.0 To 58.55 %



40

Incident Energy (eV)

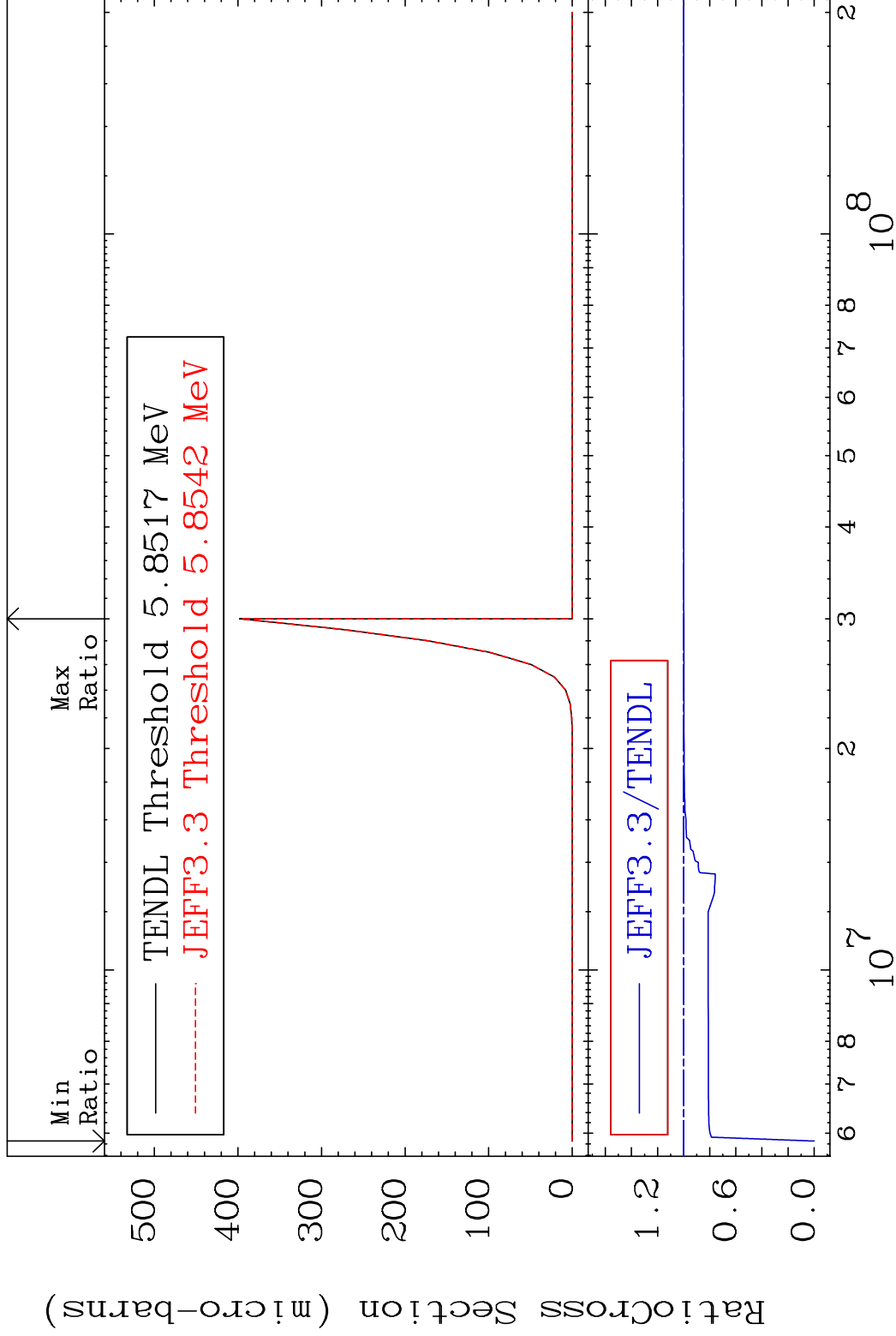
68-Er-166

MAT 6837

(n, He-3)

68-Er-166

Cross Section -100.0 To 0.000 %



41

Incident Energy (eV)

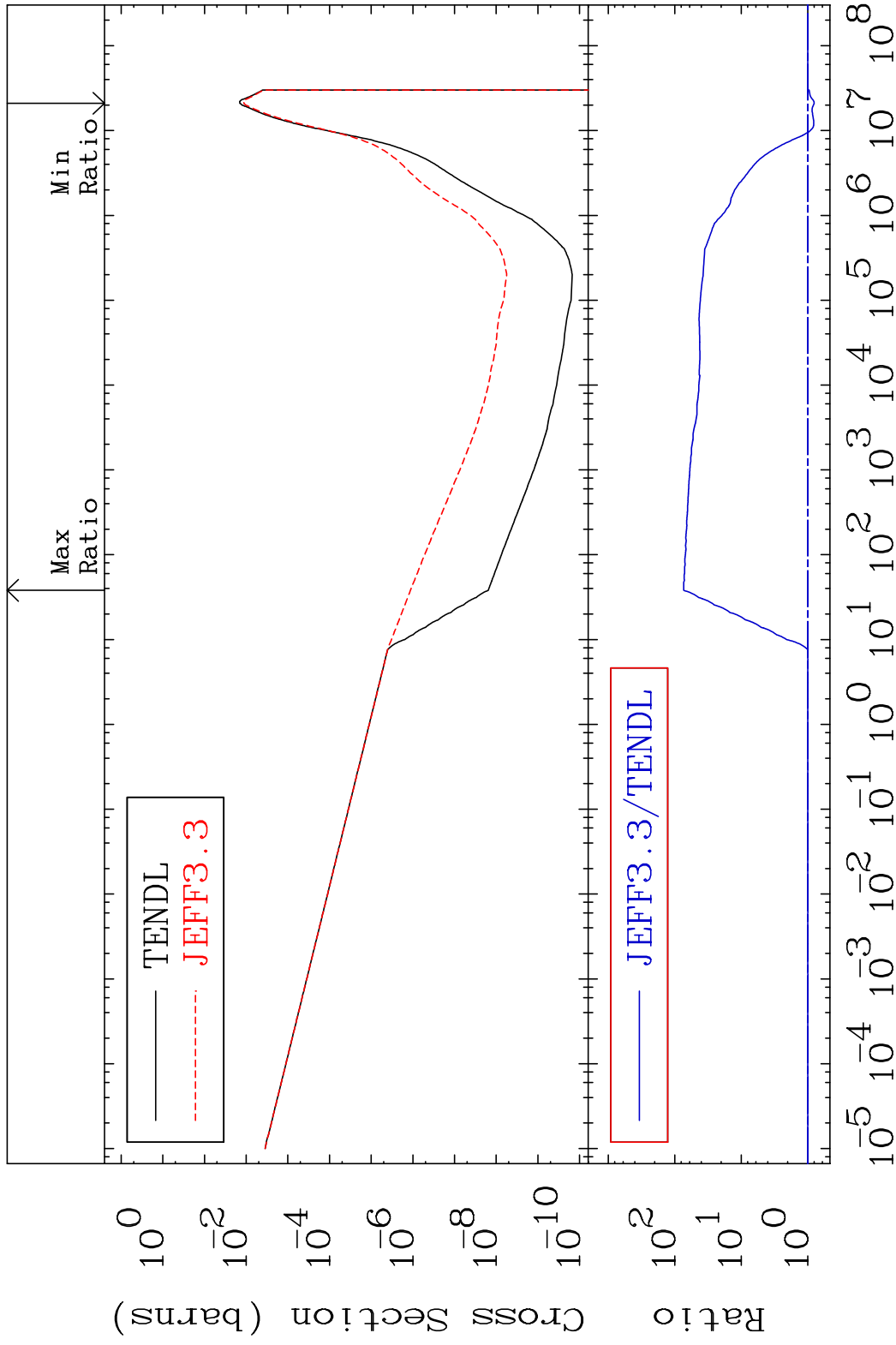
68-Er-166

MAT 6837

(n, α)

68-Er-166

Cross Section -19.84 To 7256. %



42

Incident Energy (eV)

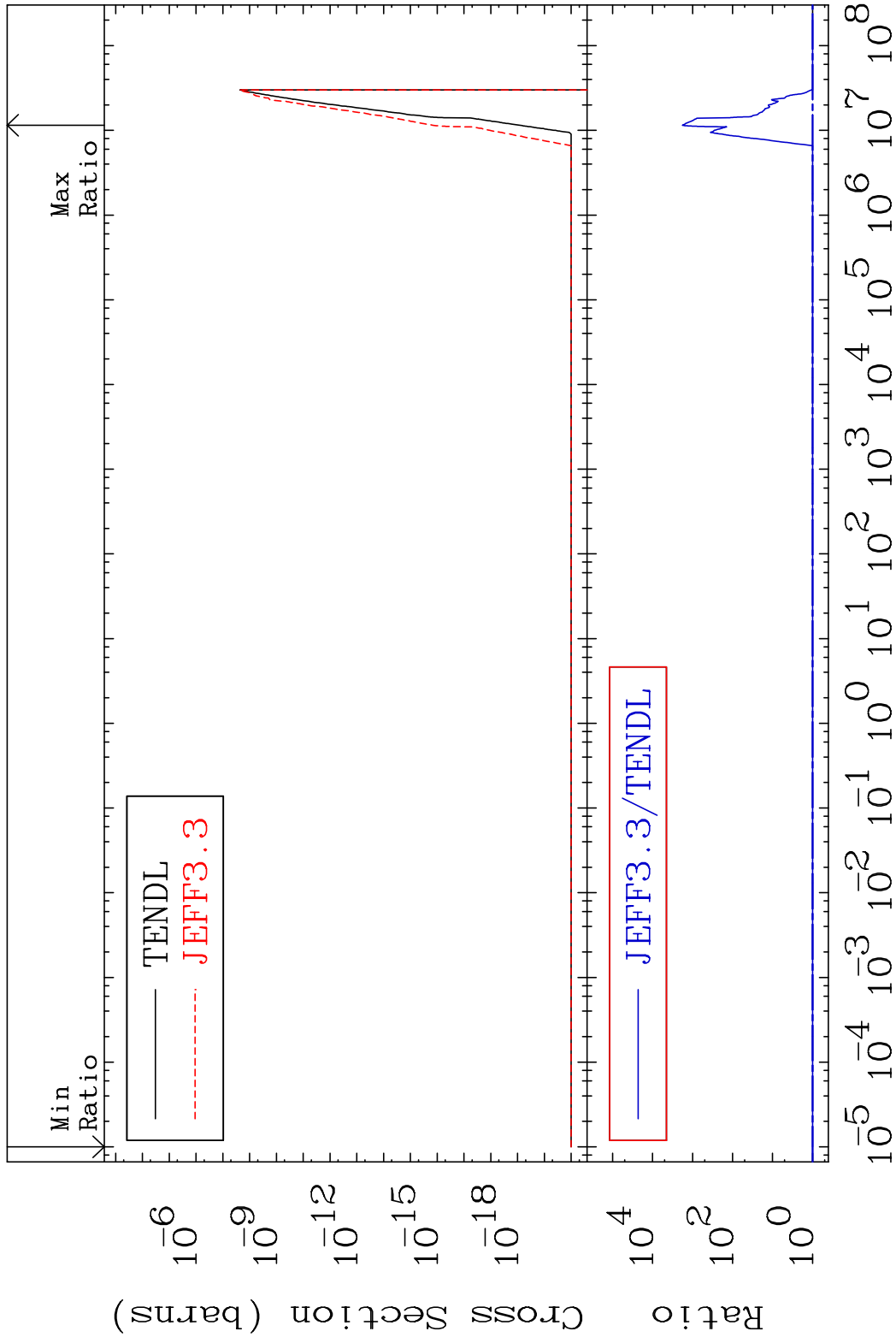
68-Er-166

MAT 6837

(n,2α)

68-Er-166

Cross Section 0.000 To 9999. %



43

Incident Energy (eV)

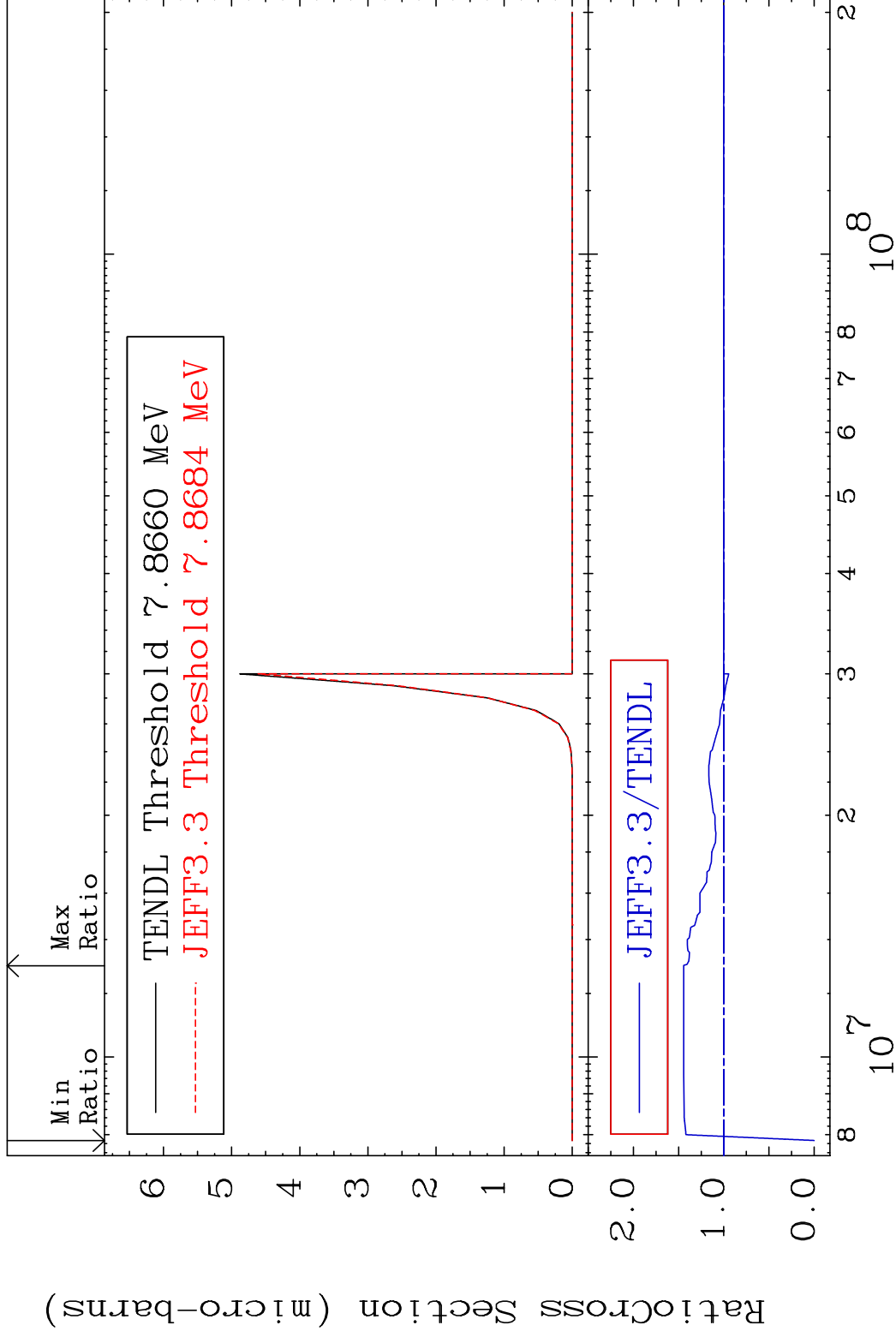
68-Er-166

MAT 6837

(n,2p)

68-Er-166

Cross Section -100.0 To 44.43 %



44

Incident Energy (eV)

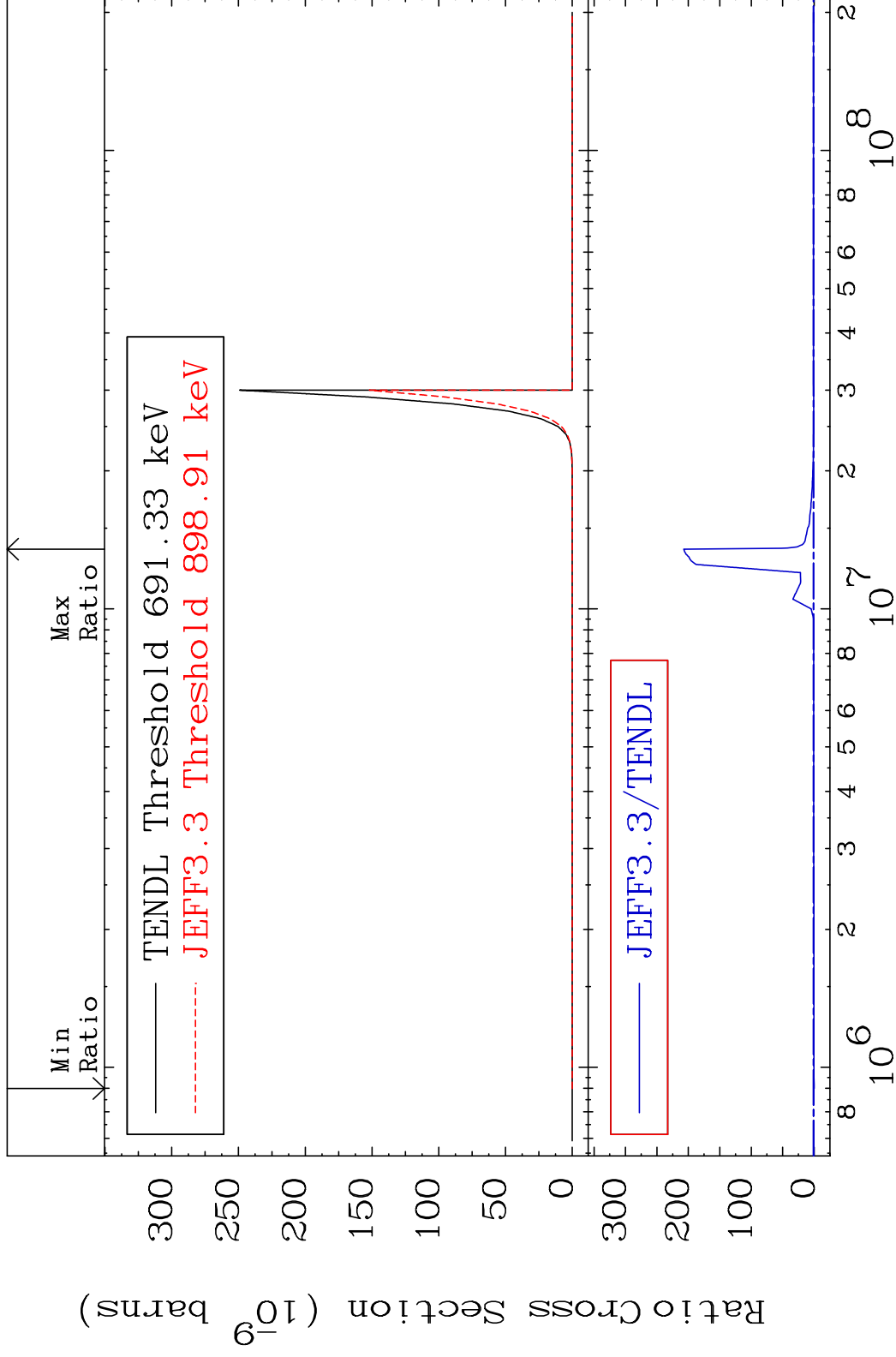
68-Er-166

MAT 6837

(n,p) α

68-Er-166

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

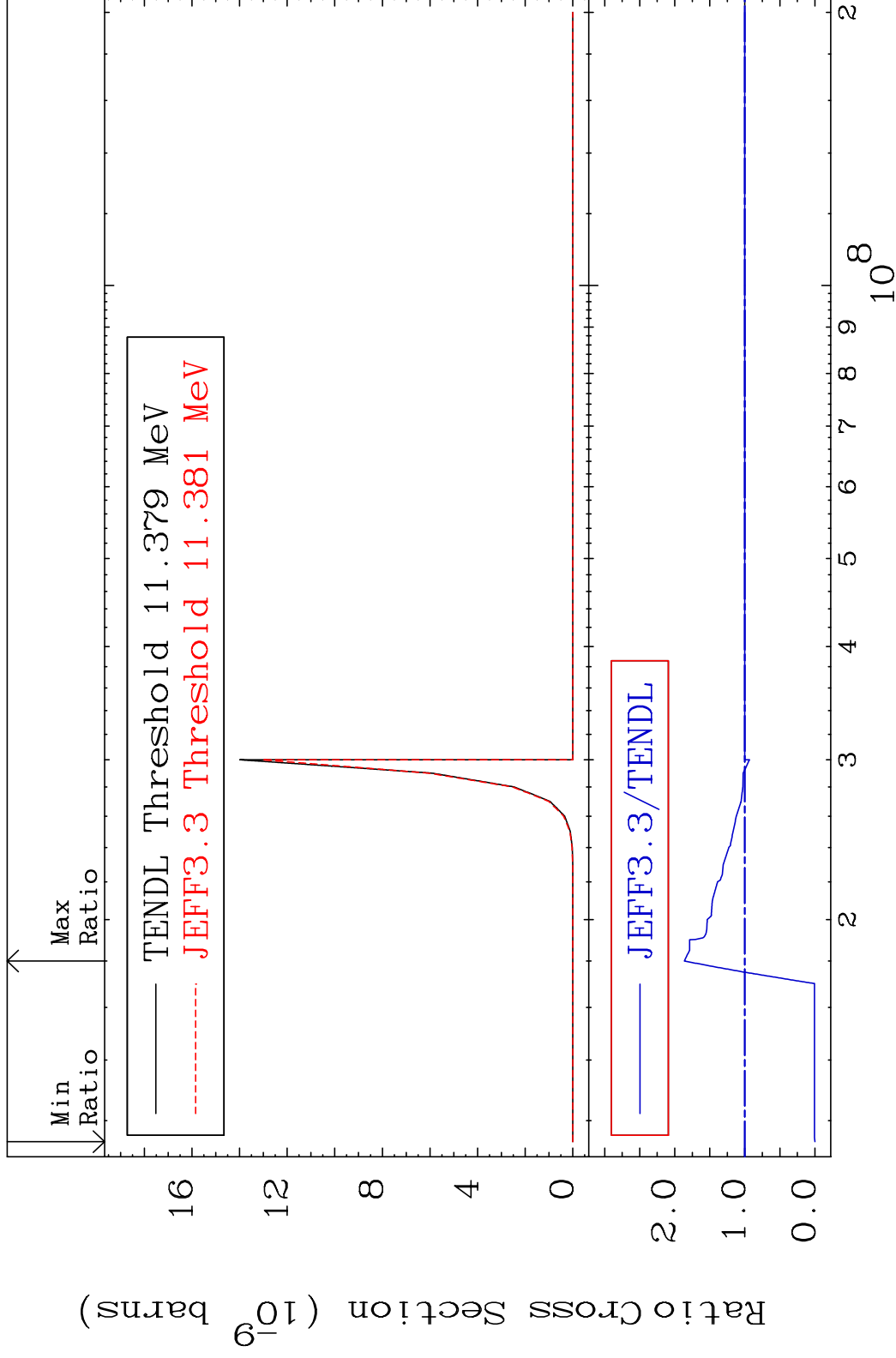
68-Er-166

MAT 6837

(n,p) d

68-Er-166

Cross Section -100.0 To 86.32 %



46

Incident Energy (eV)

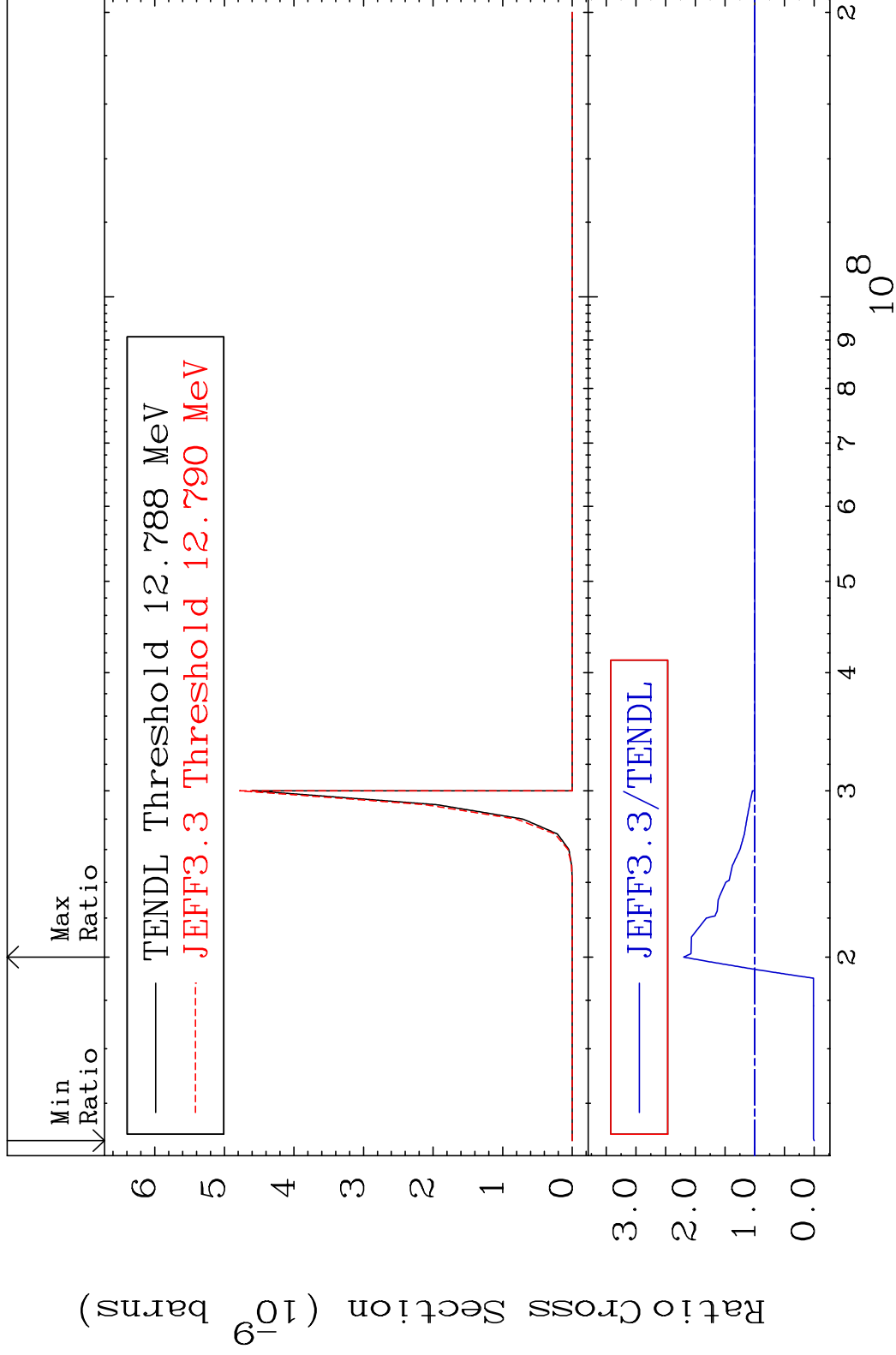
68-Er-166

MAT 6837

(n,p) t

68-Er-166

Cross Section -100.0 To 119.6 %

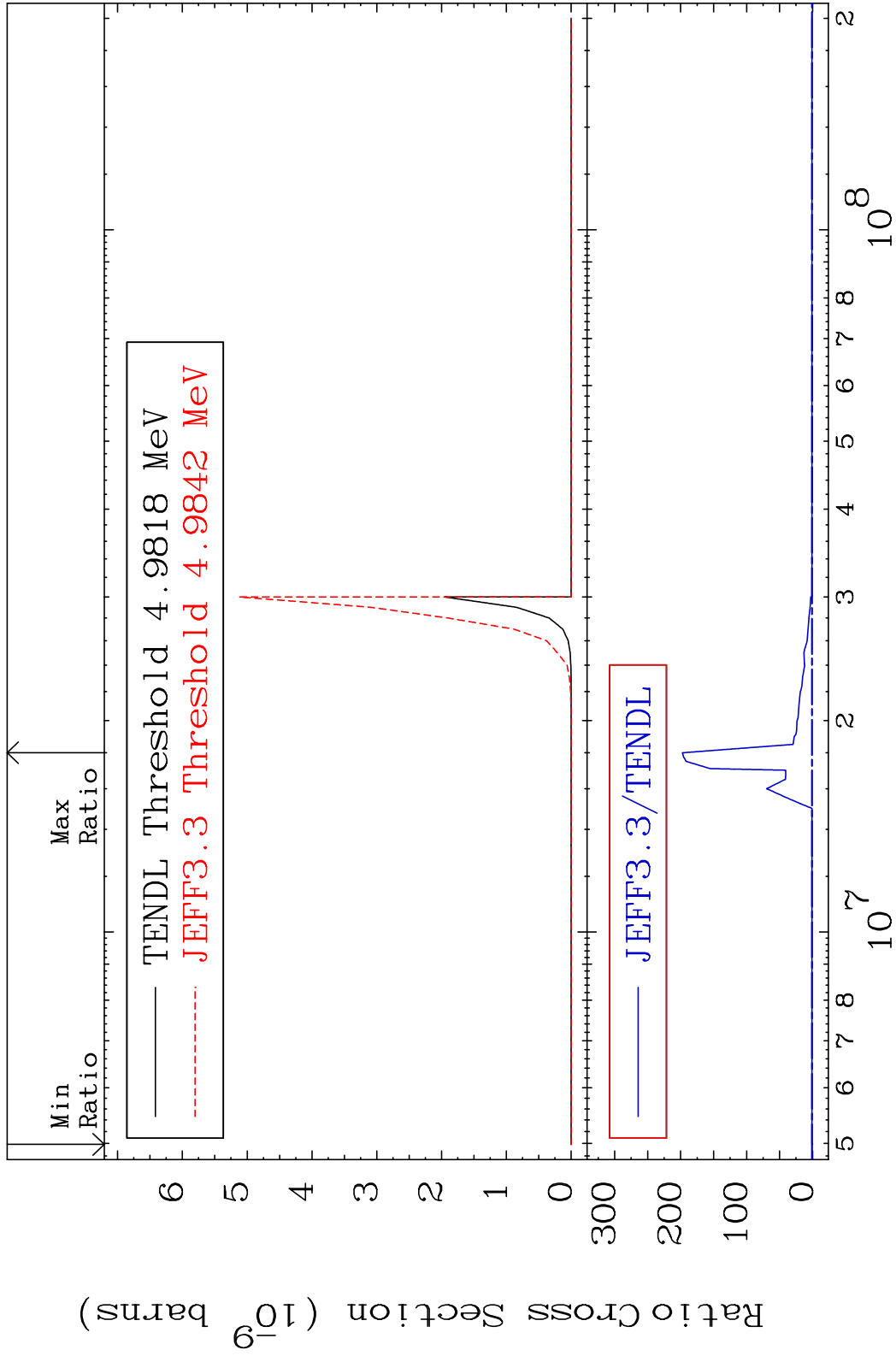


MAT 6837

(n, d) α

68-Er-166

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

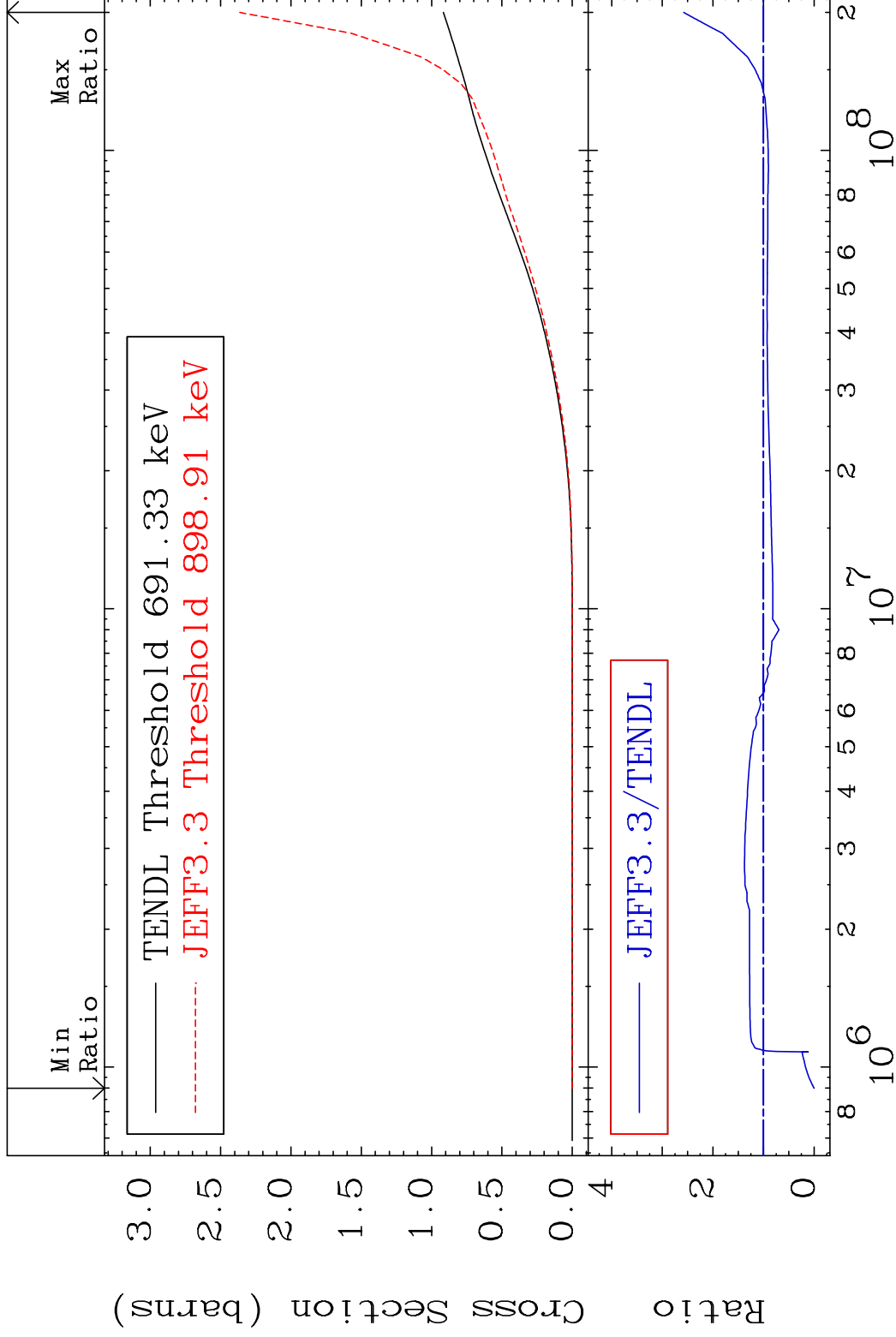
68-Er-166

MAT 6837

Hydrogen Production

68-Er-166

Cross Section -100.0 To 157.8 %



49

Incident Energy (eV)

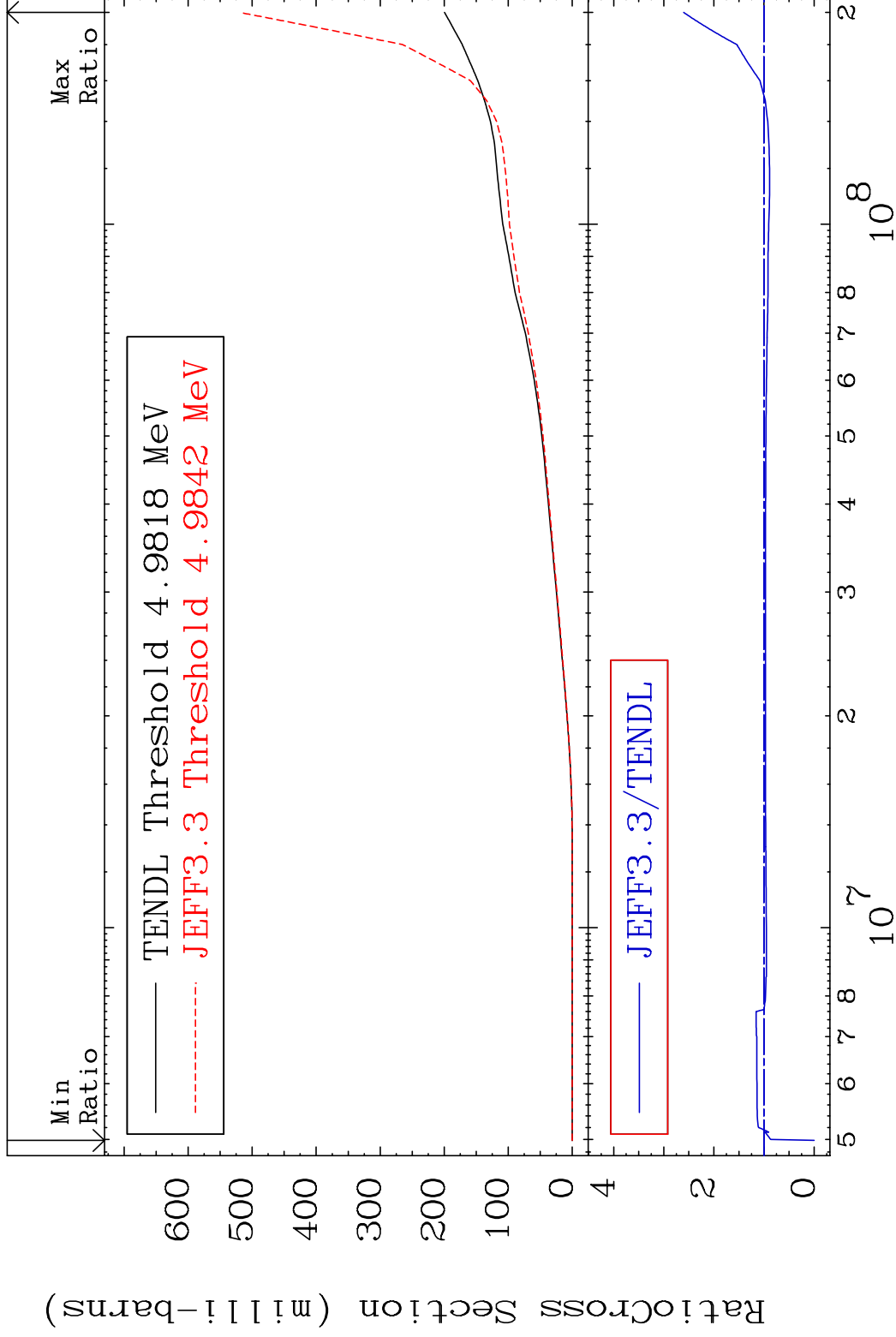
68-Er-166

MAT 6837

Deuterium Production

68-Er-166

Cross Section -100.0 To 160.3 %



50

Incident Energy (eV)

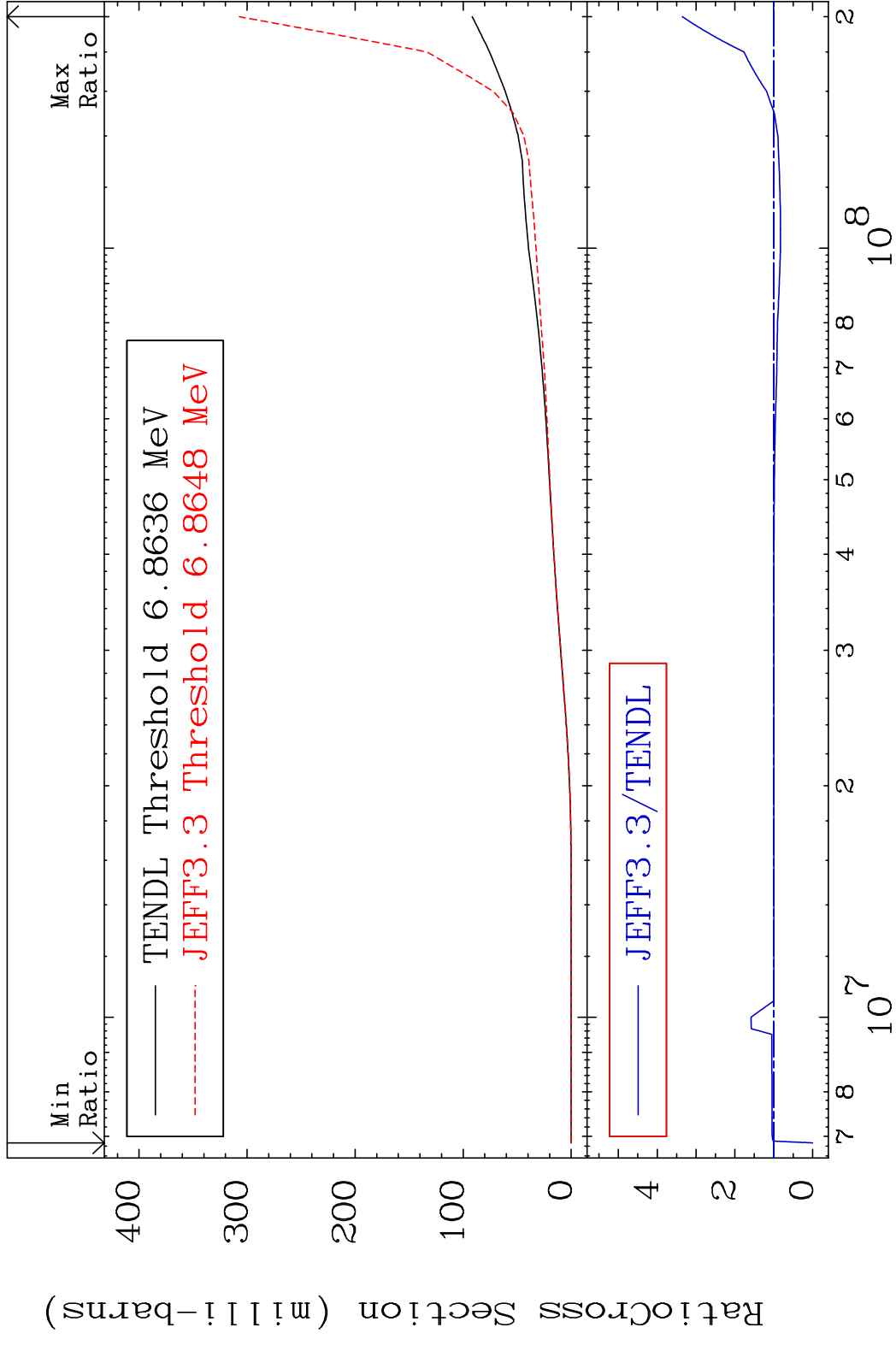
68-Er-166

MAT 6837

Tritium Production

68-Er-166

Cross Section -100.0 To 235.3 %

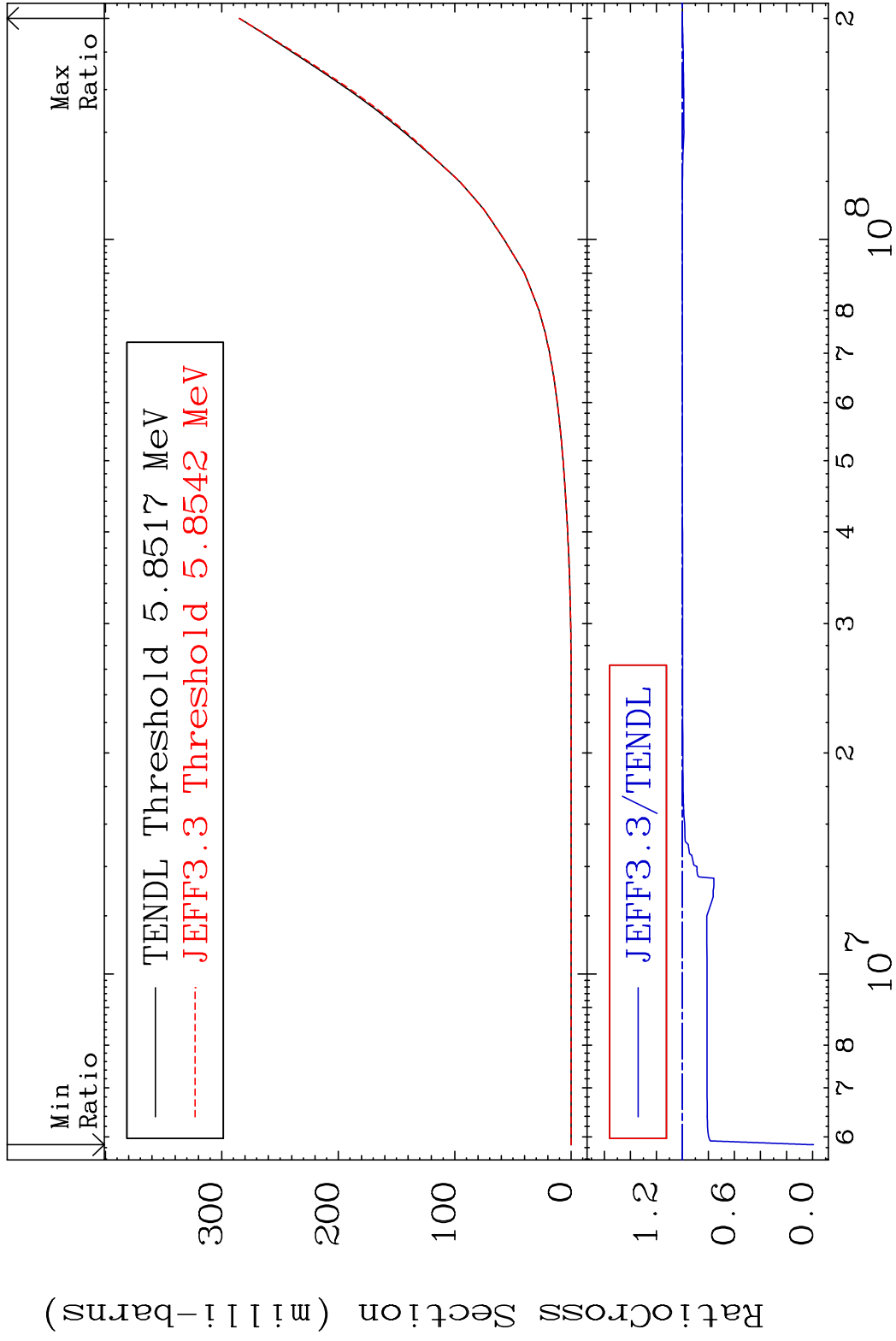


MAT 6837

He-3 Production

68-Er-166

Cross Section -100.0 To 0.032 %



52

Incident Energy (eV)

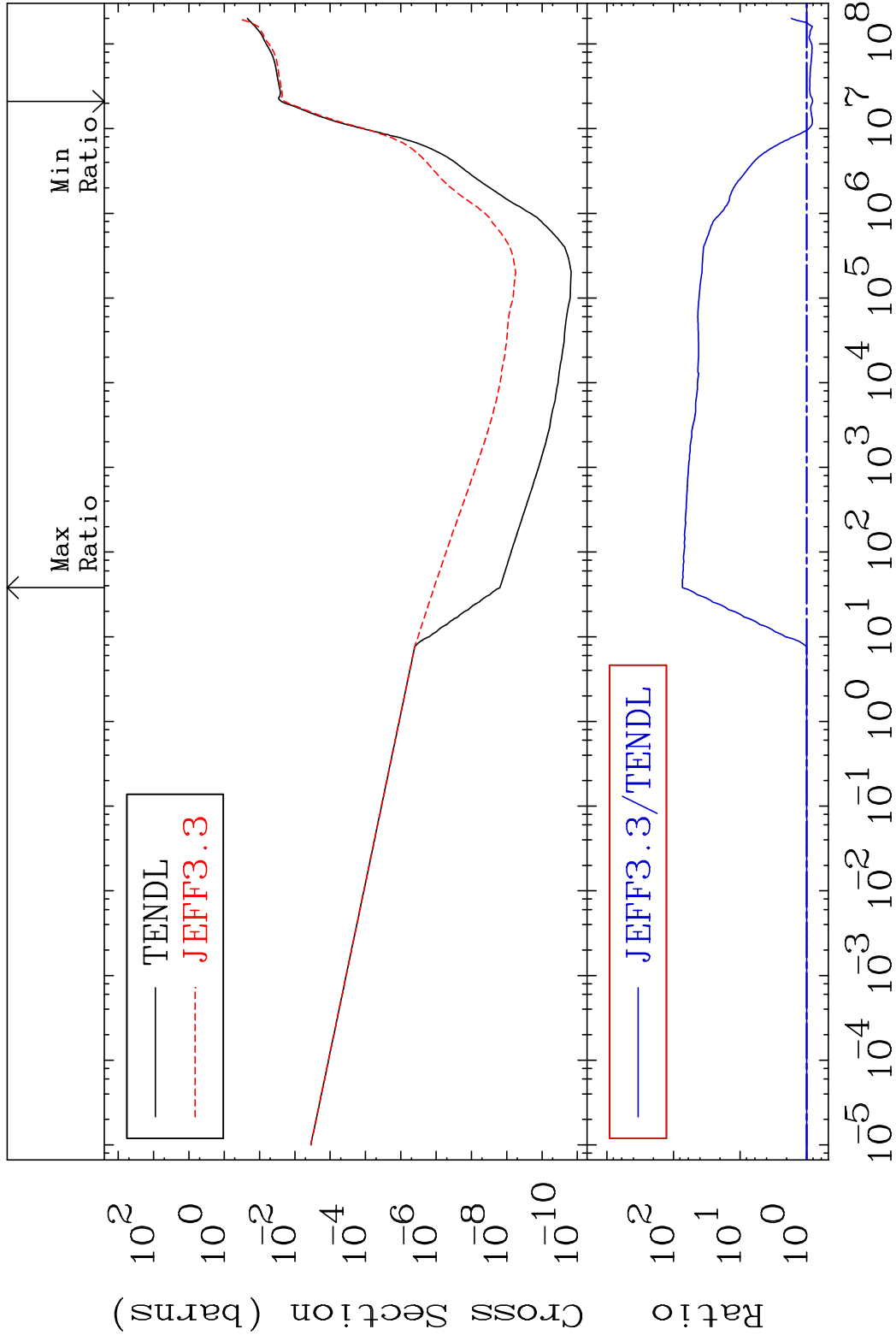
68-Er-166

MAT 6837

He-4 Production

68-Er-166

Cross Section -18.63 To 7256. %

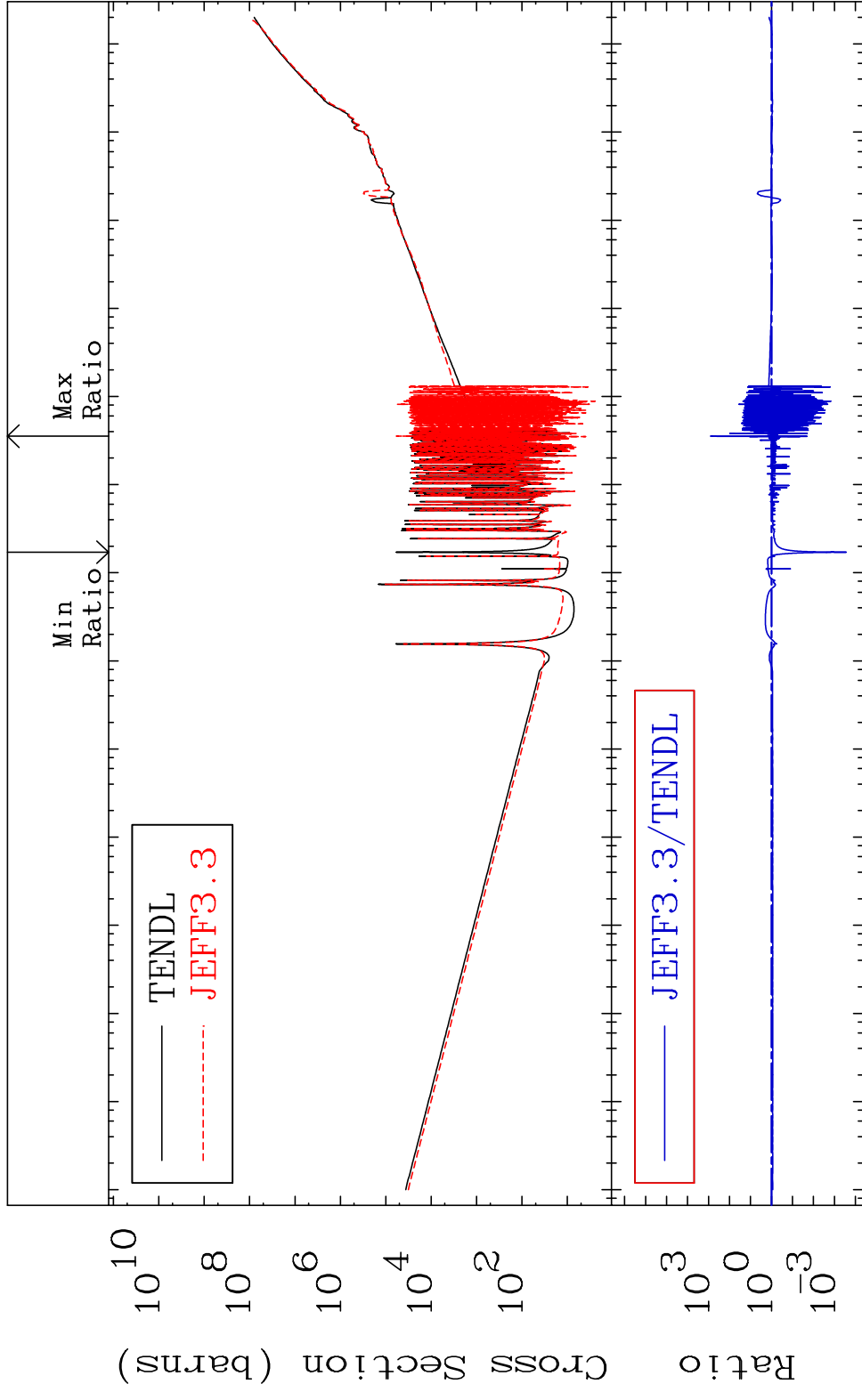


53

Incident Energy (eV)

68-Er-166

MAT 6837 Kerma total (eV-barns) 68-Er-166
 Cross Section -99.97 To 9999. %

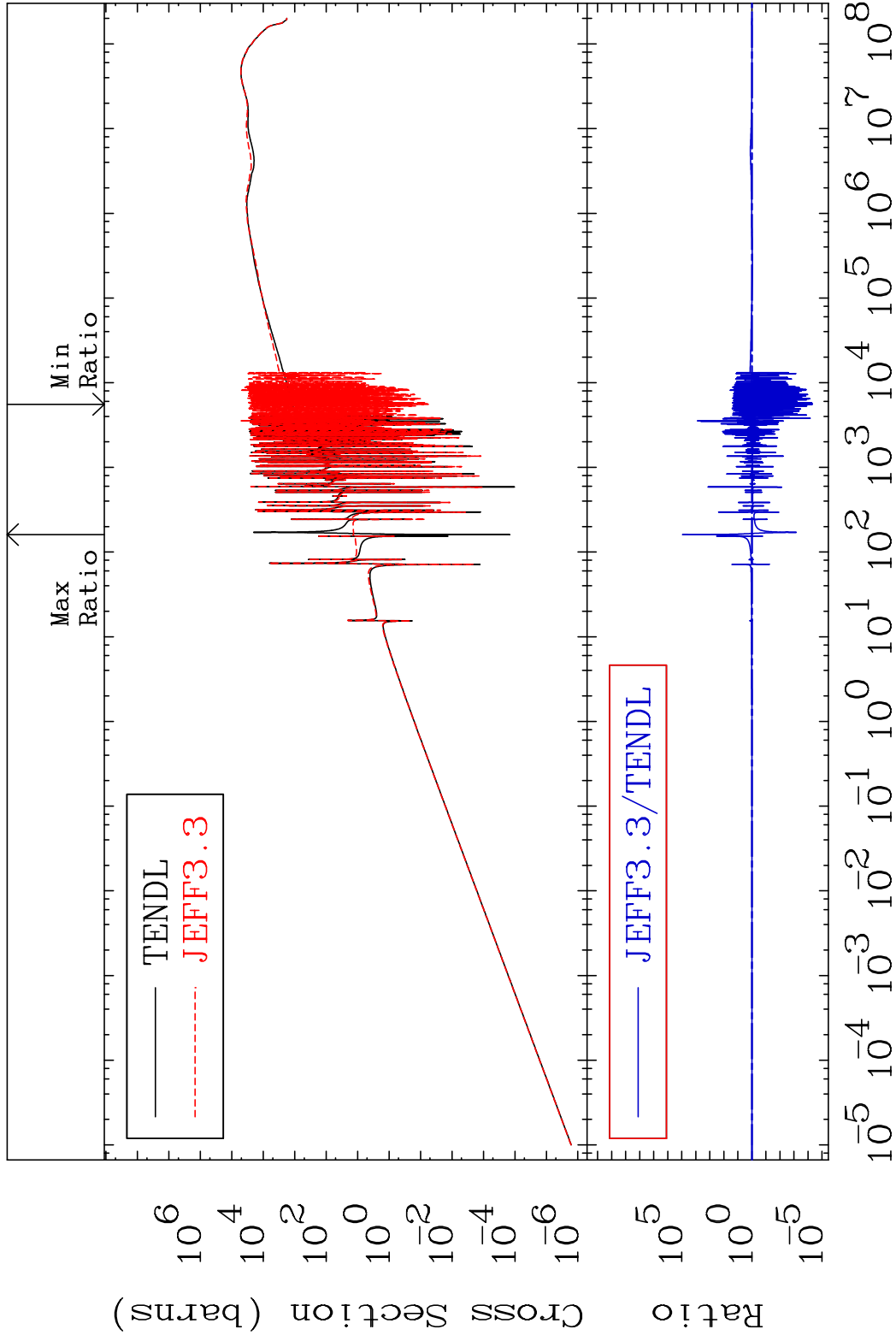


MAT 6837

Kerma elastic

68-Er-166

Cross Section -100.0 To 9999. %

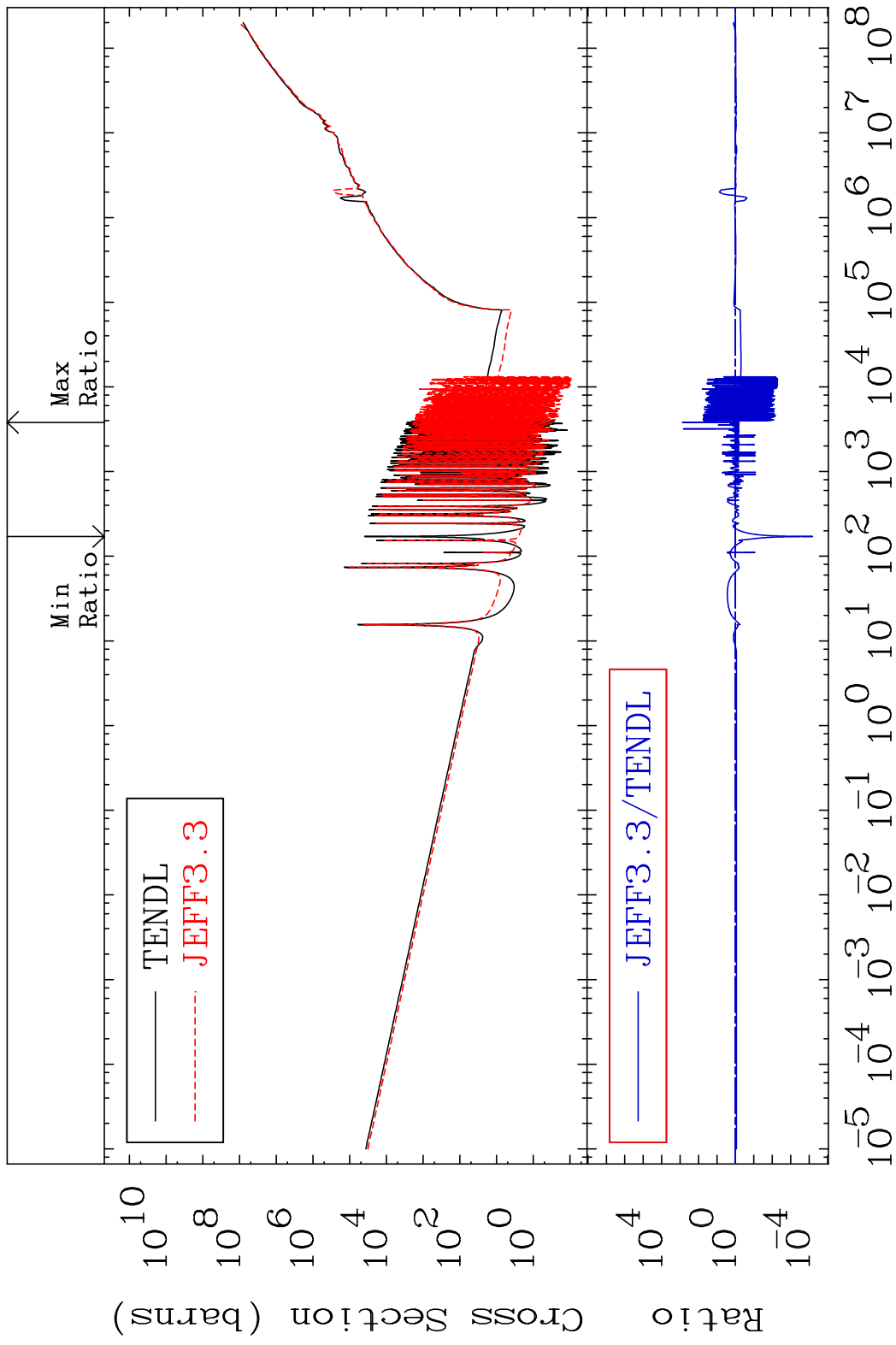


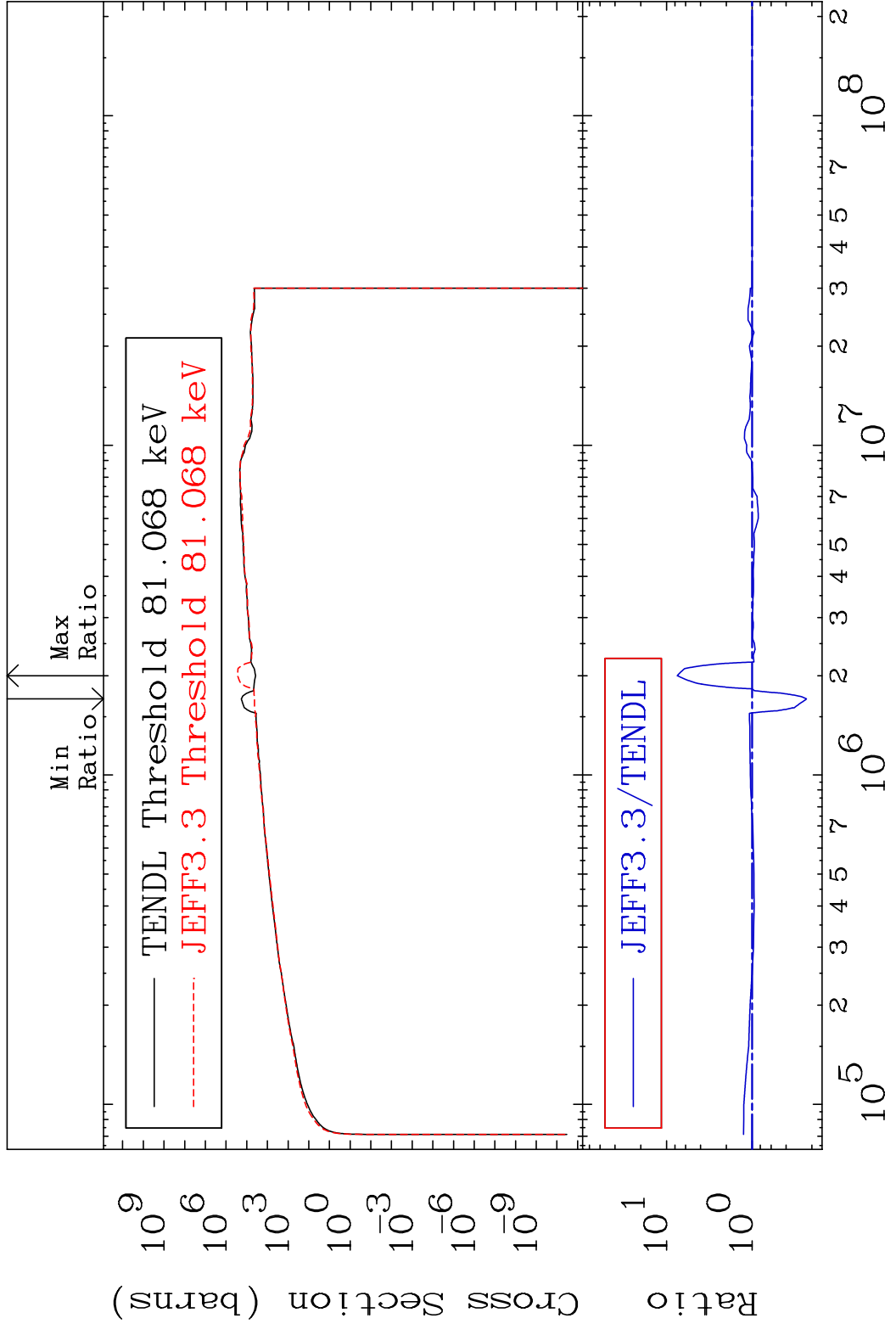
55

Incident Energy (eV)

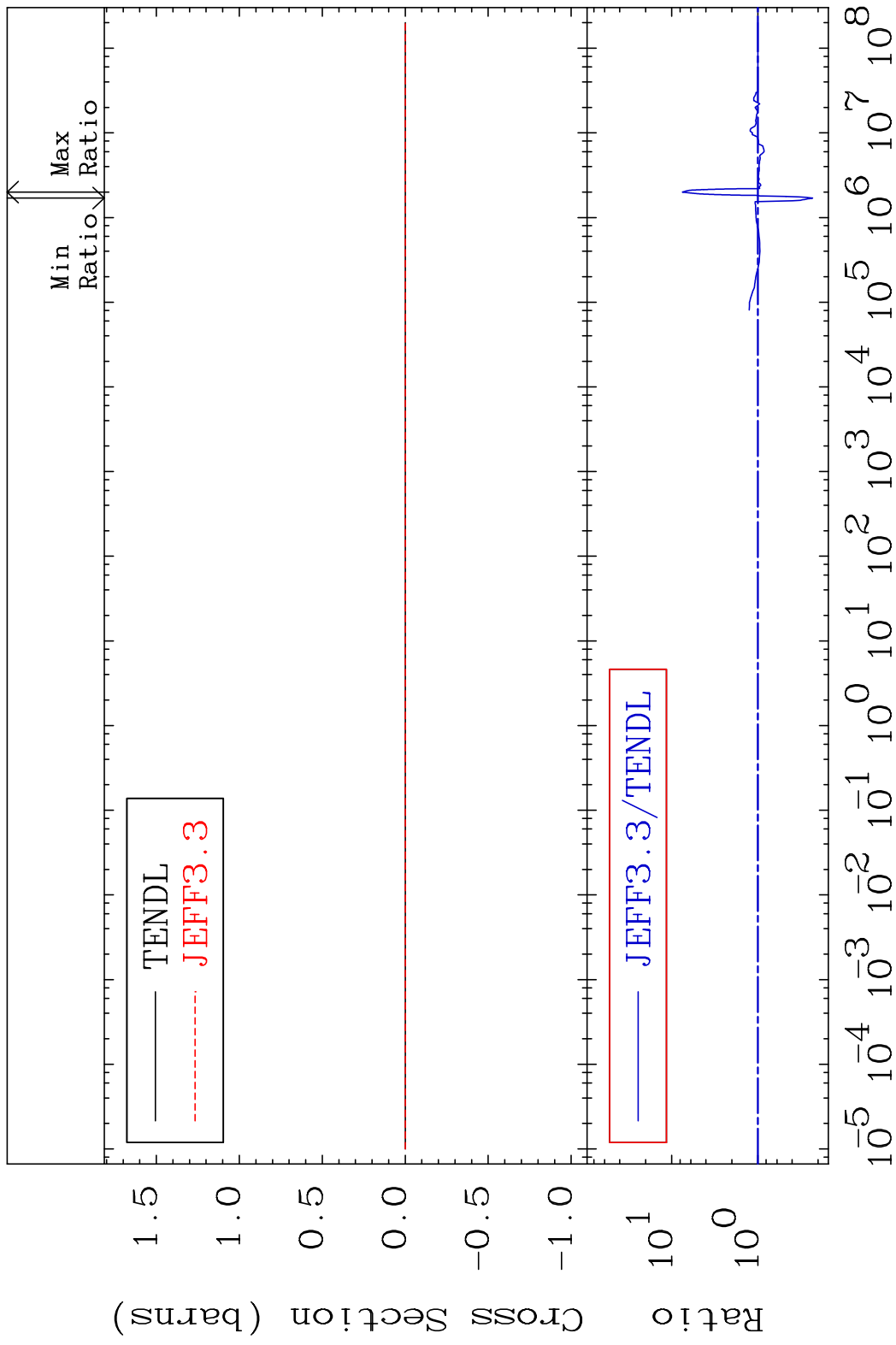
68-Er-166

MAT 6837 Kerma non-elastic (all but mt2) 68-Er-166
 Cross Section -99.99 To 9999. %





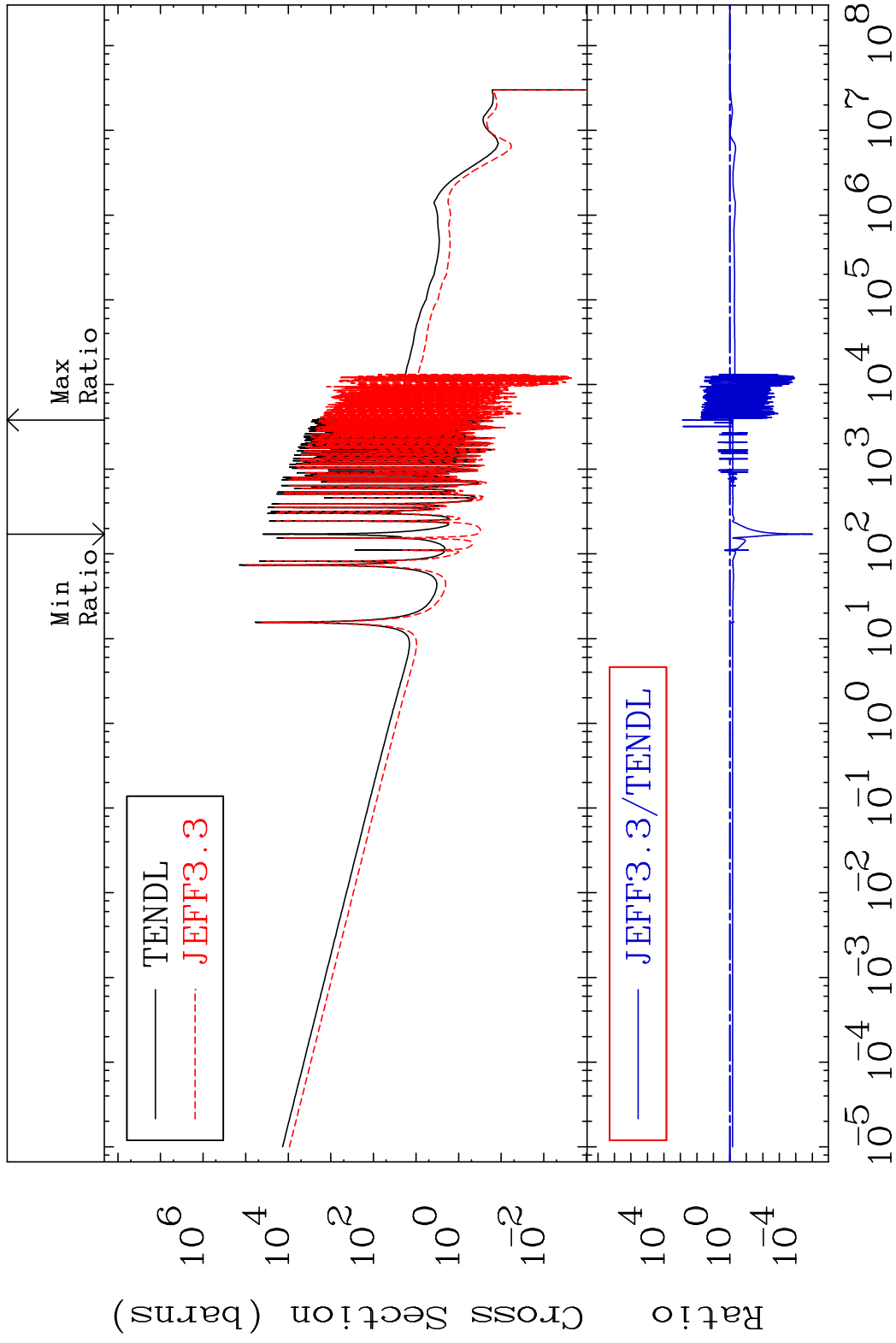
MAT 6837 Kerma fission (mt18 or mt19-20-21-38) 68-Er-166
 Cross Section -76.82 To 651.3 %



MAT 6837

Kerma capture (mt102) 68-Er-166

Cross Section -100.0 To 9999. %



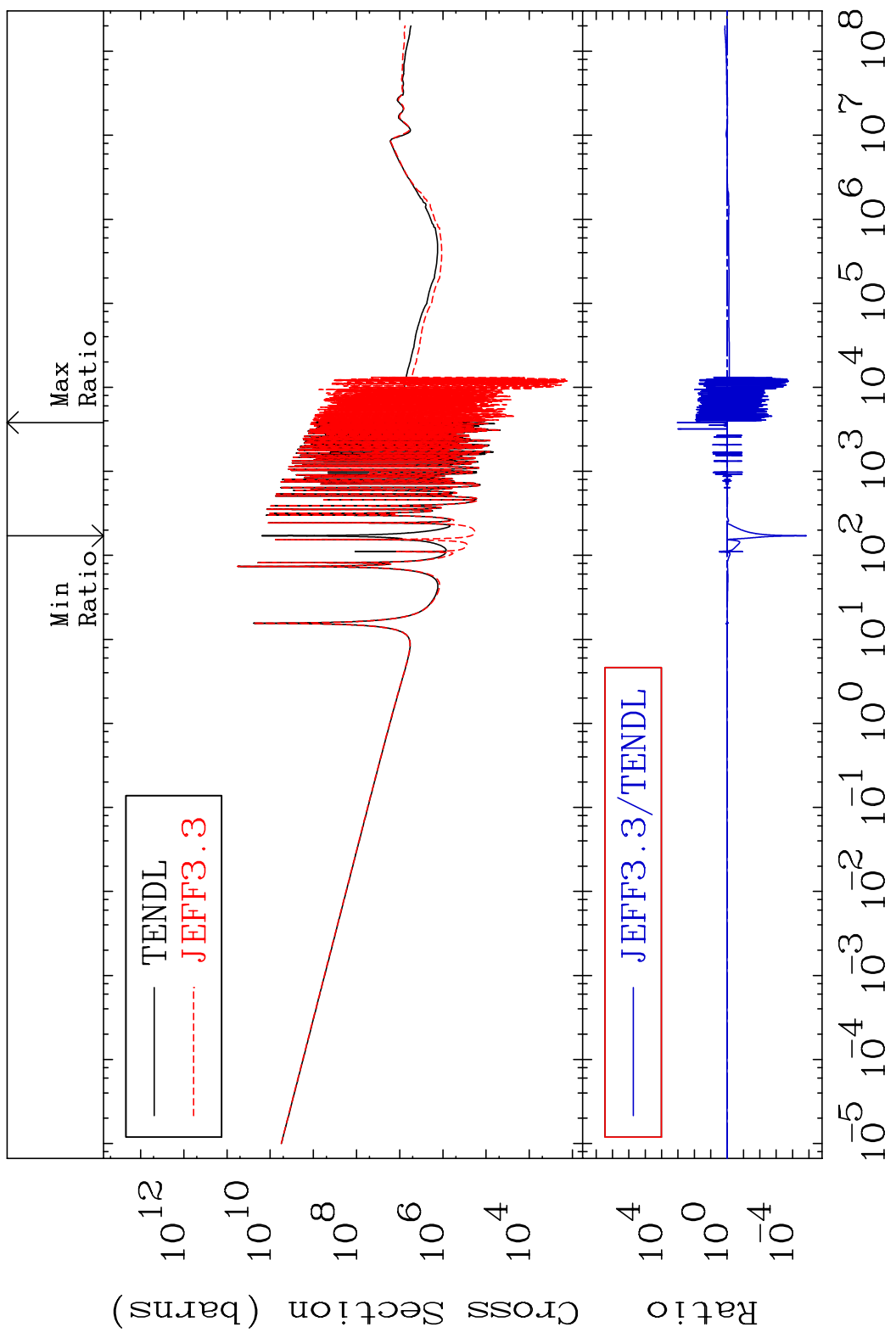
59

Incident Energy (eV)

68-Er-166

MAT 6837

Total photon (eV-barns) 68-Er-166
Cross Section -100.0 To 9999. %

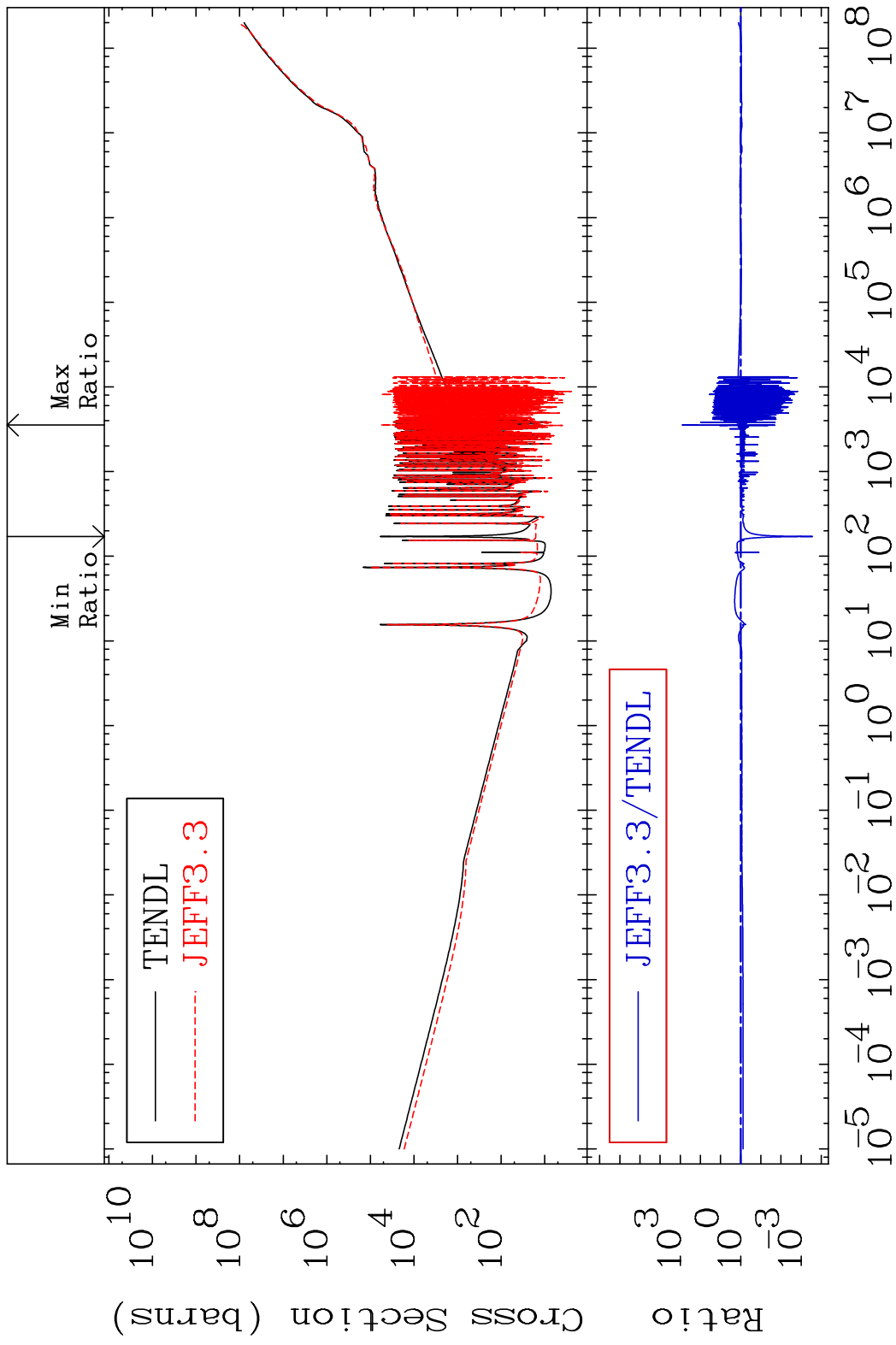


60

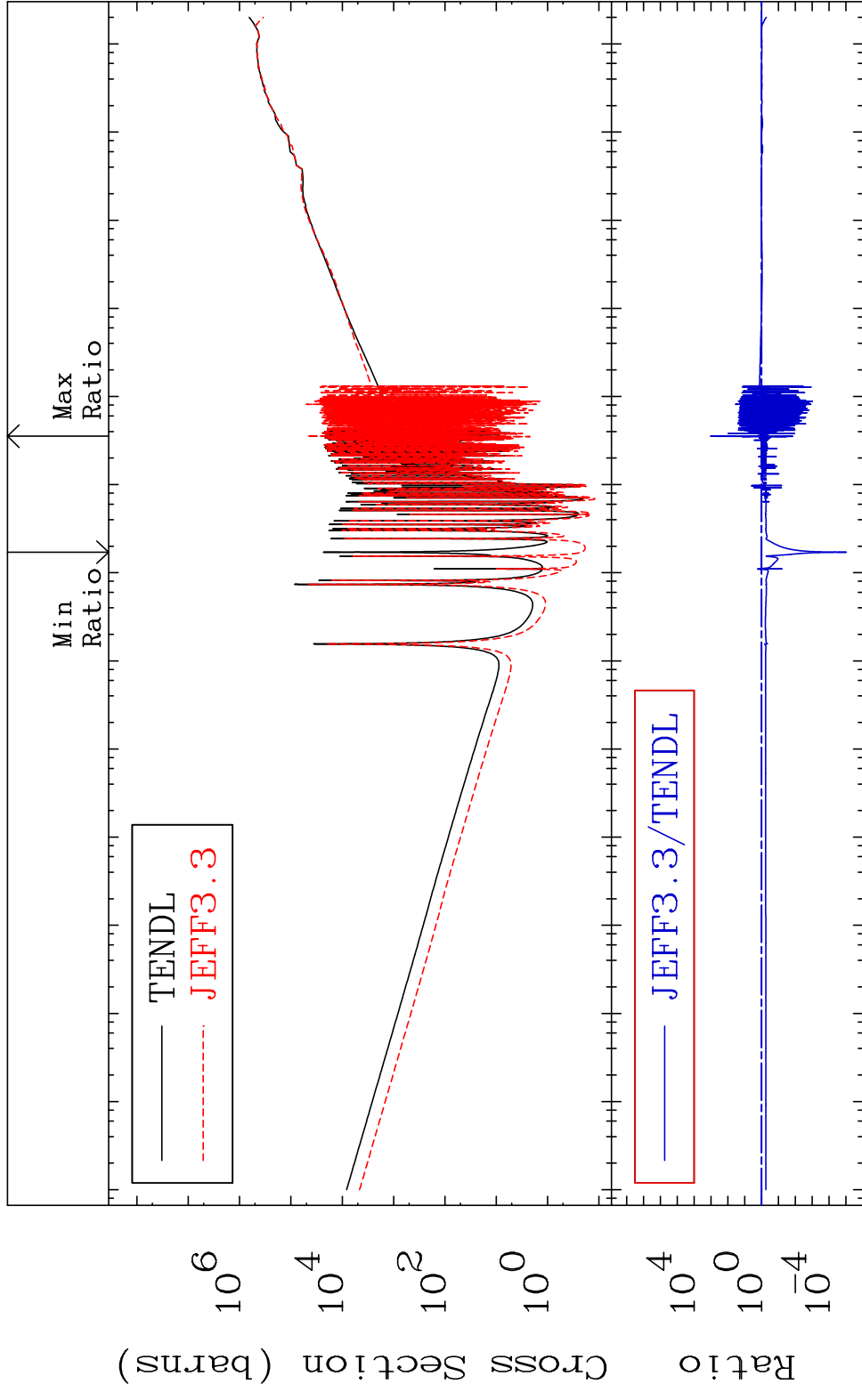
Incident Energy (eV)

68-Er-166

MAT 6837 Total kinematic kerma (high limit) 68-Er-166
 Cross Section -99.97 To 9999. %



MAT 6837 Dpa total (eV-barns) 68-Er-166
 Cross Section -100.0 To 9999. %



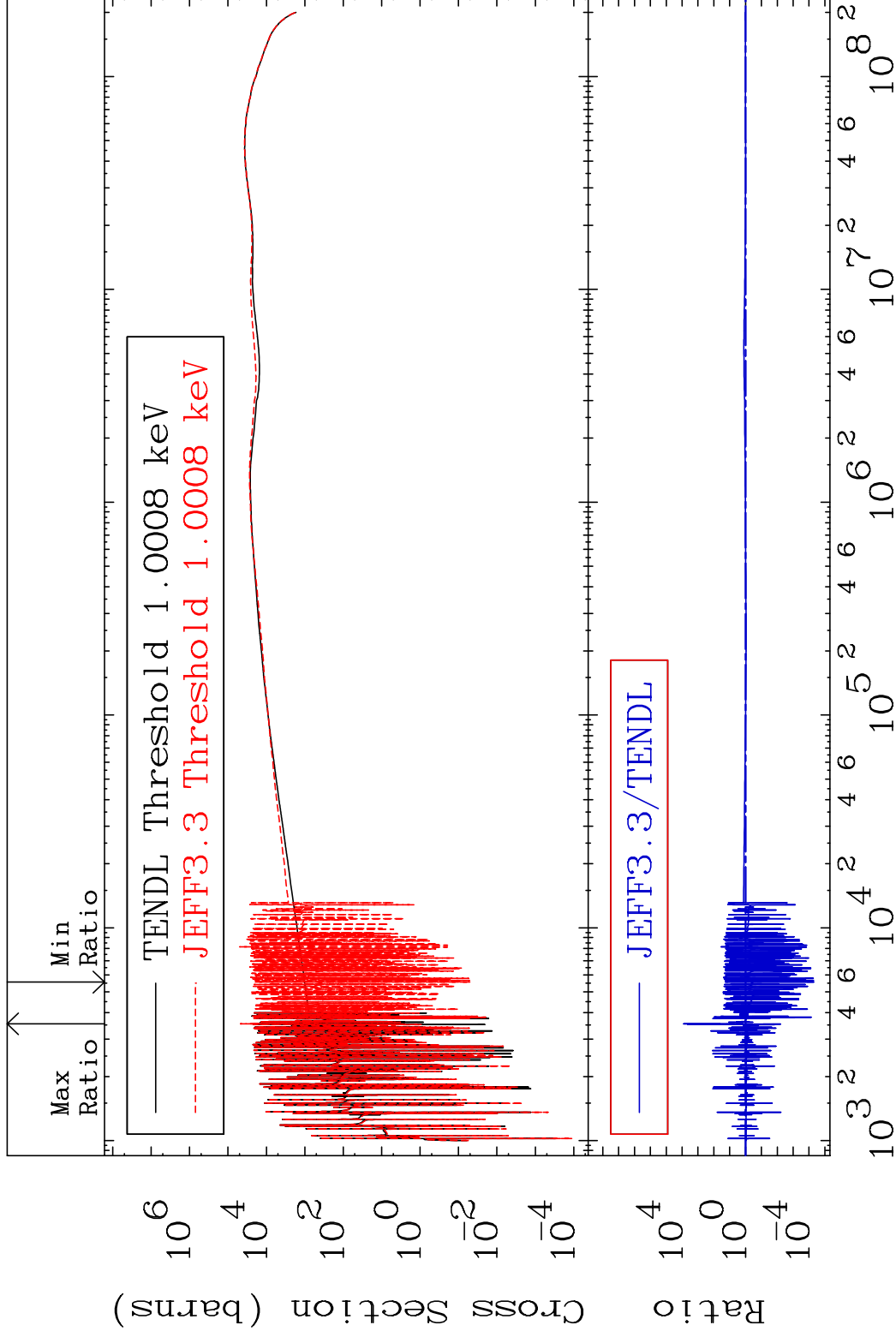
62 Incident Energy (eV) 68-Er-166

MAT 6837

Dpa elastic (mt2)

68-Er-166

Cross Section -100.0 To 9999. %

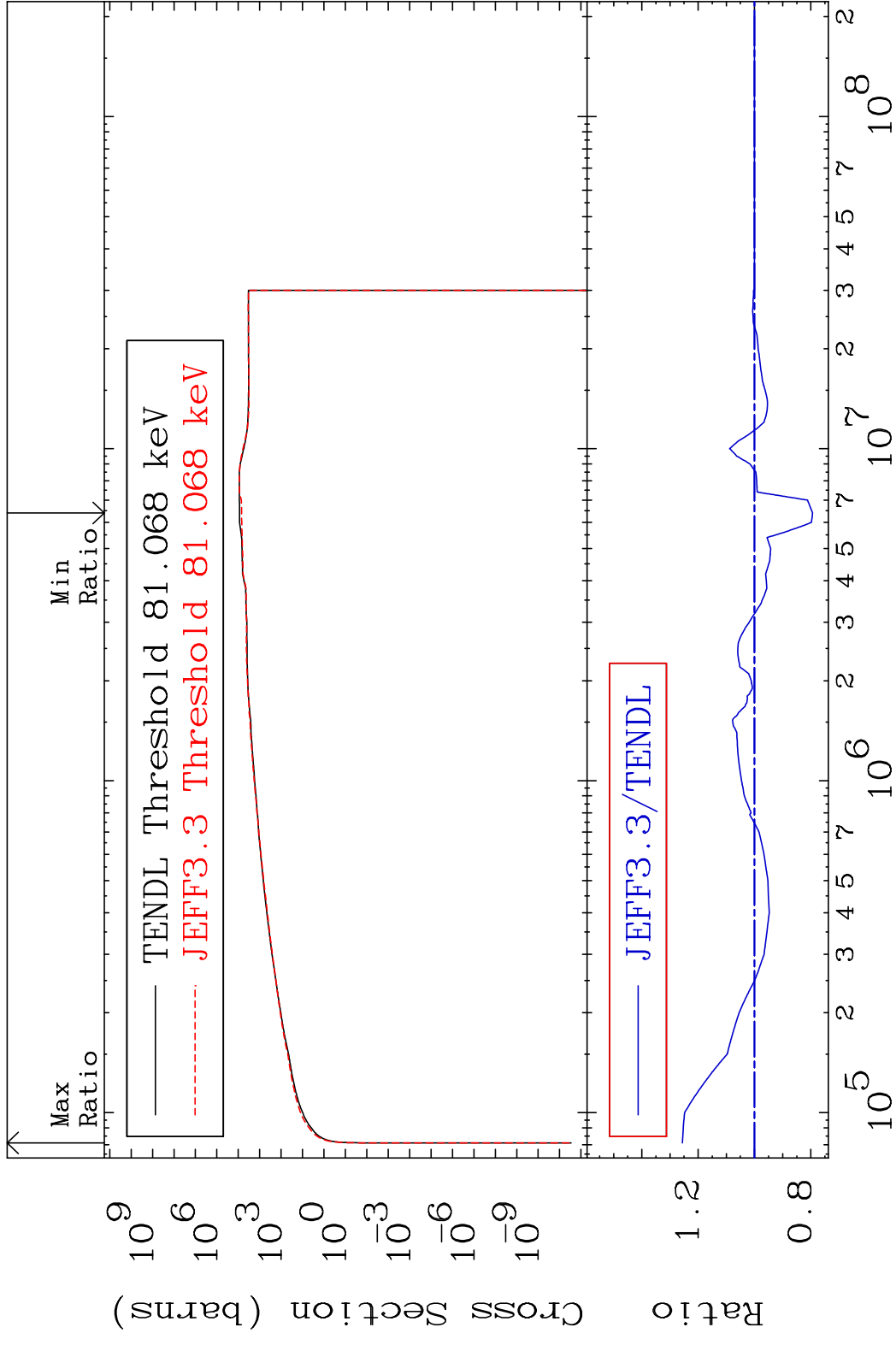


63

Incident Energy (eV)

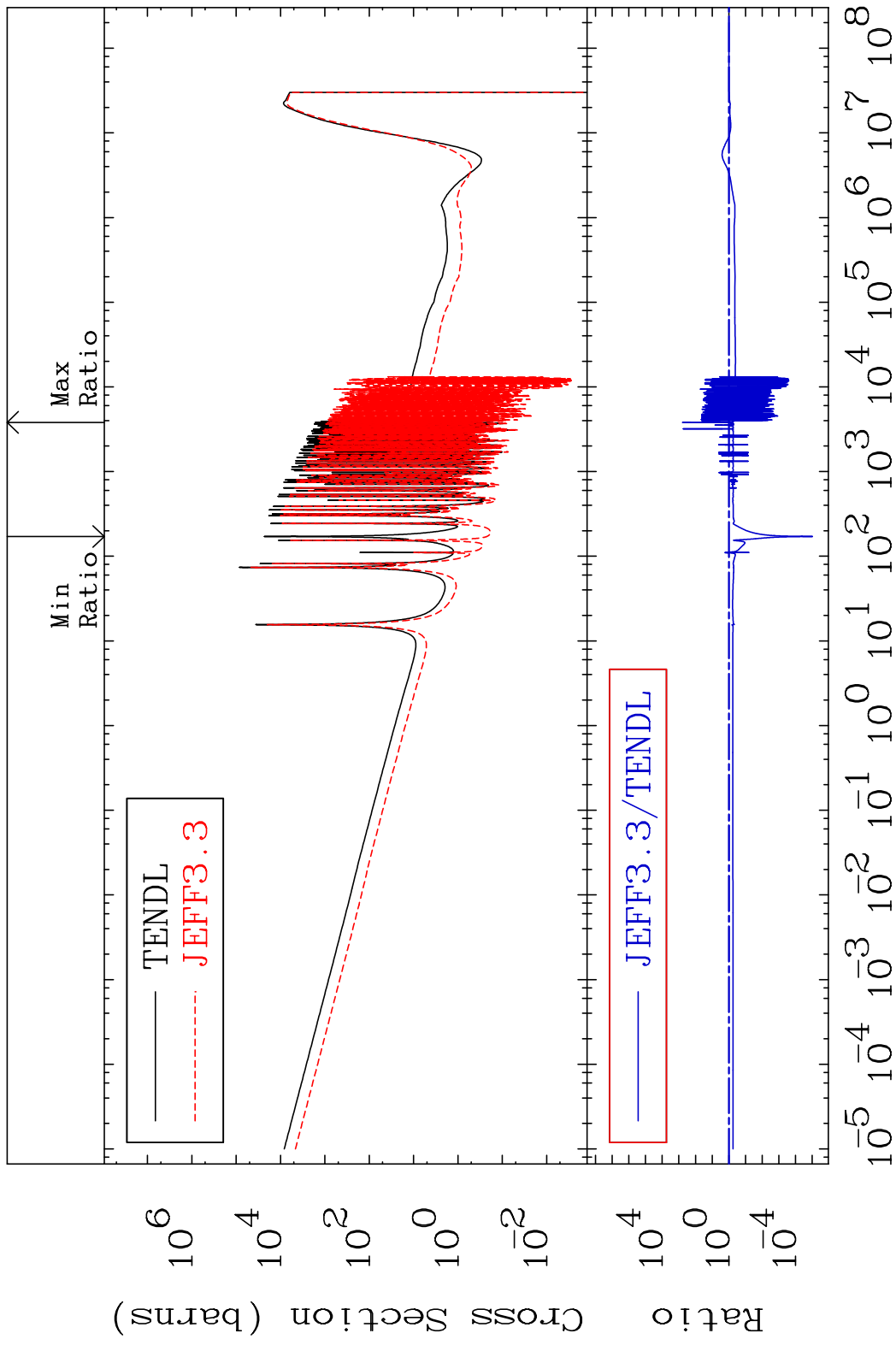
68-Er-166

MAT 6837 Dpa inelastic (mt51-91) 68-Er-166
 Cross Section -20.60 To 25.61 %

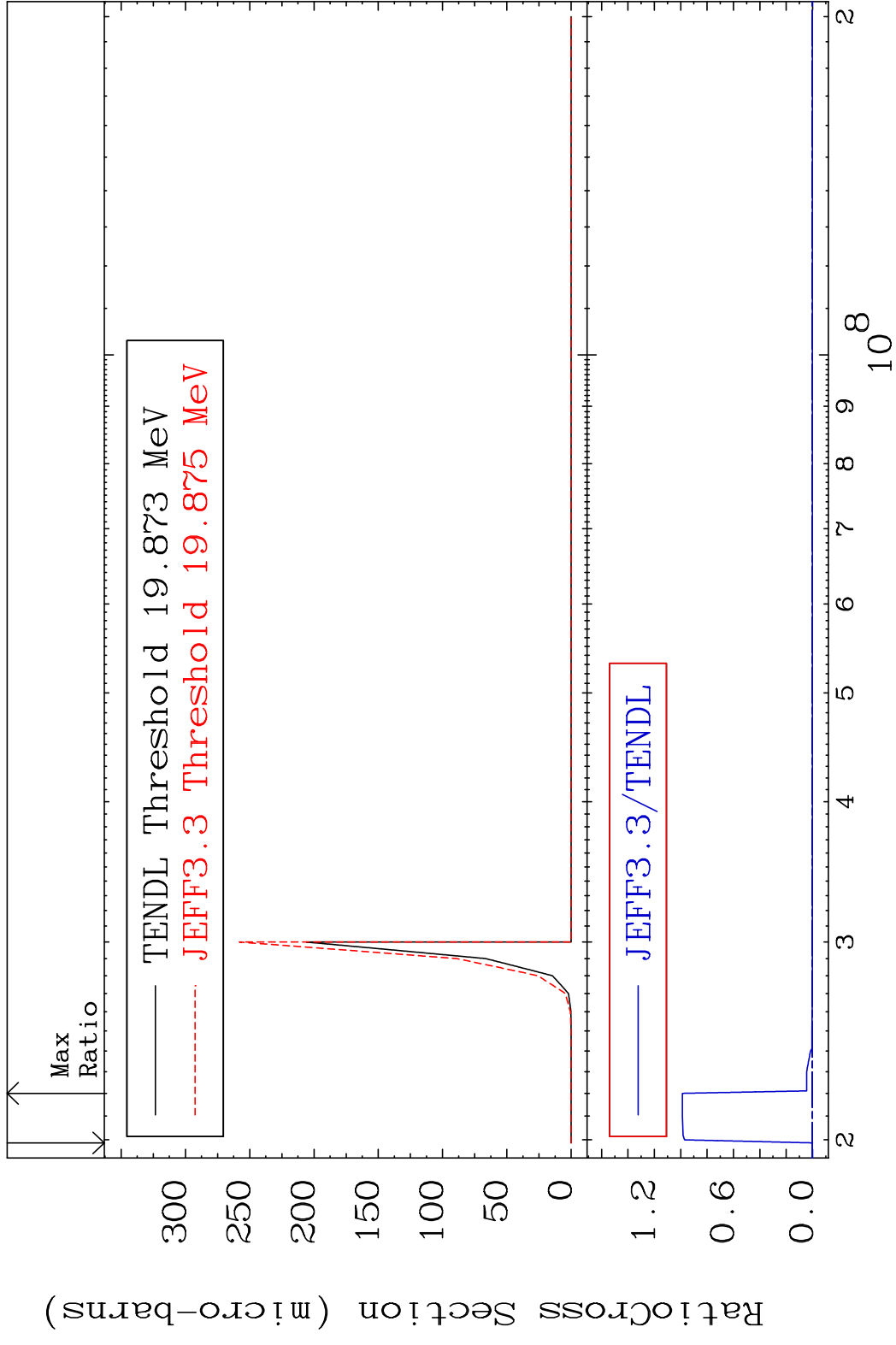


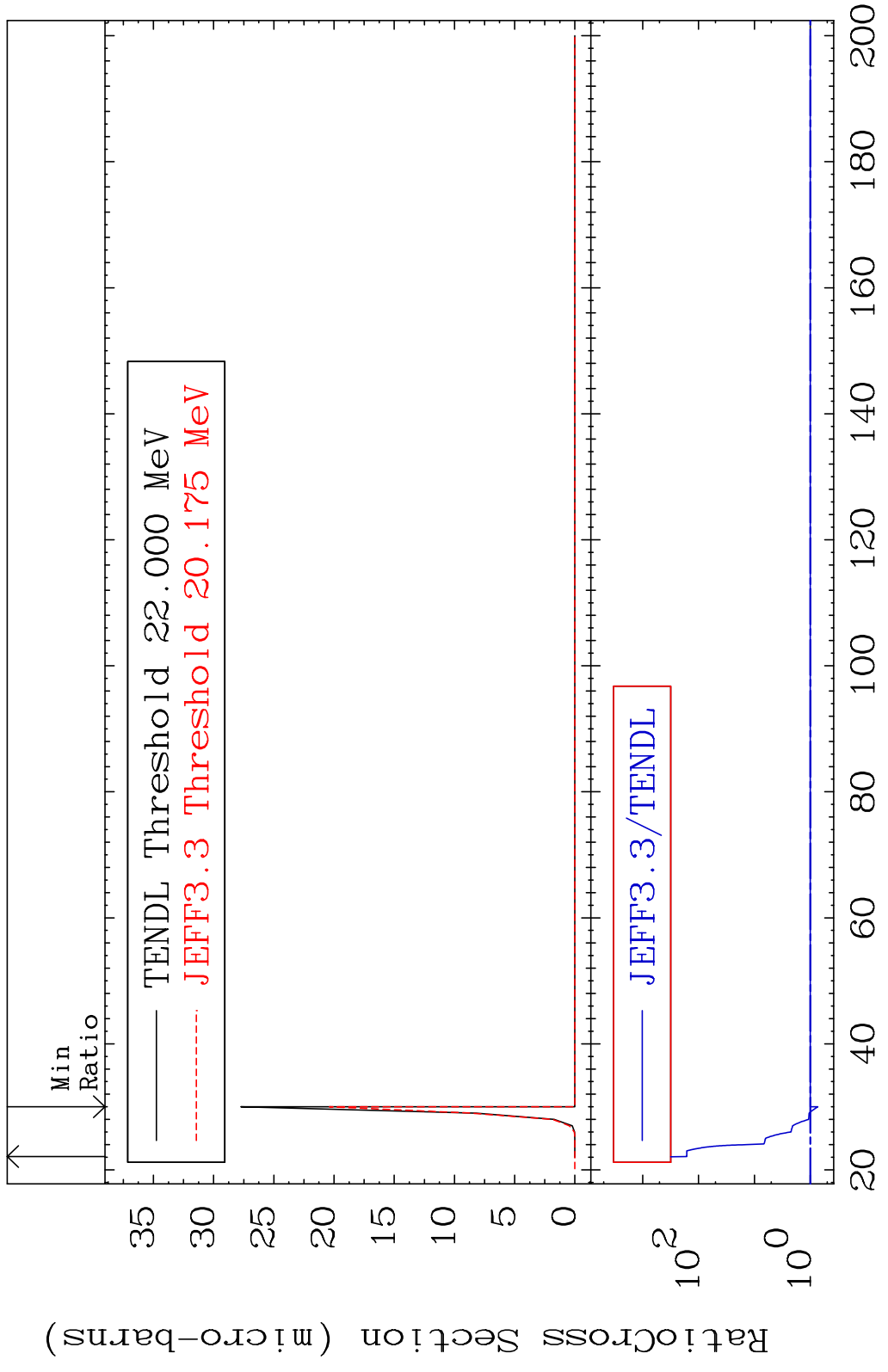
64 Incident Energy (eV) 68-Er-166

MAT 6837 Dpa disappearance (mt102 -120) 68-Er-166
 Cross Section -100.0 To 9999. %

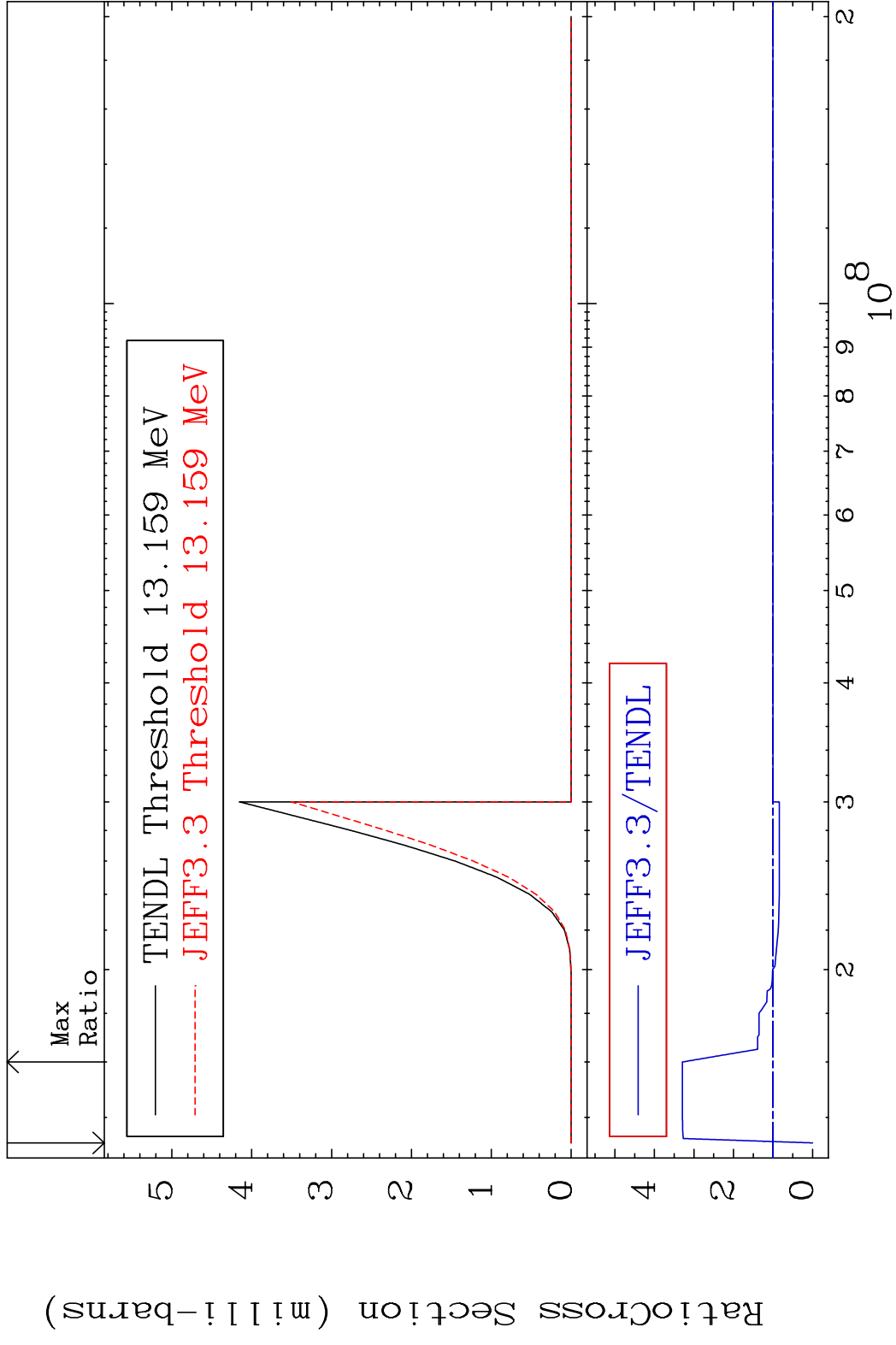


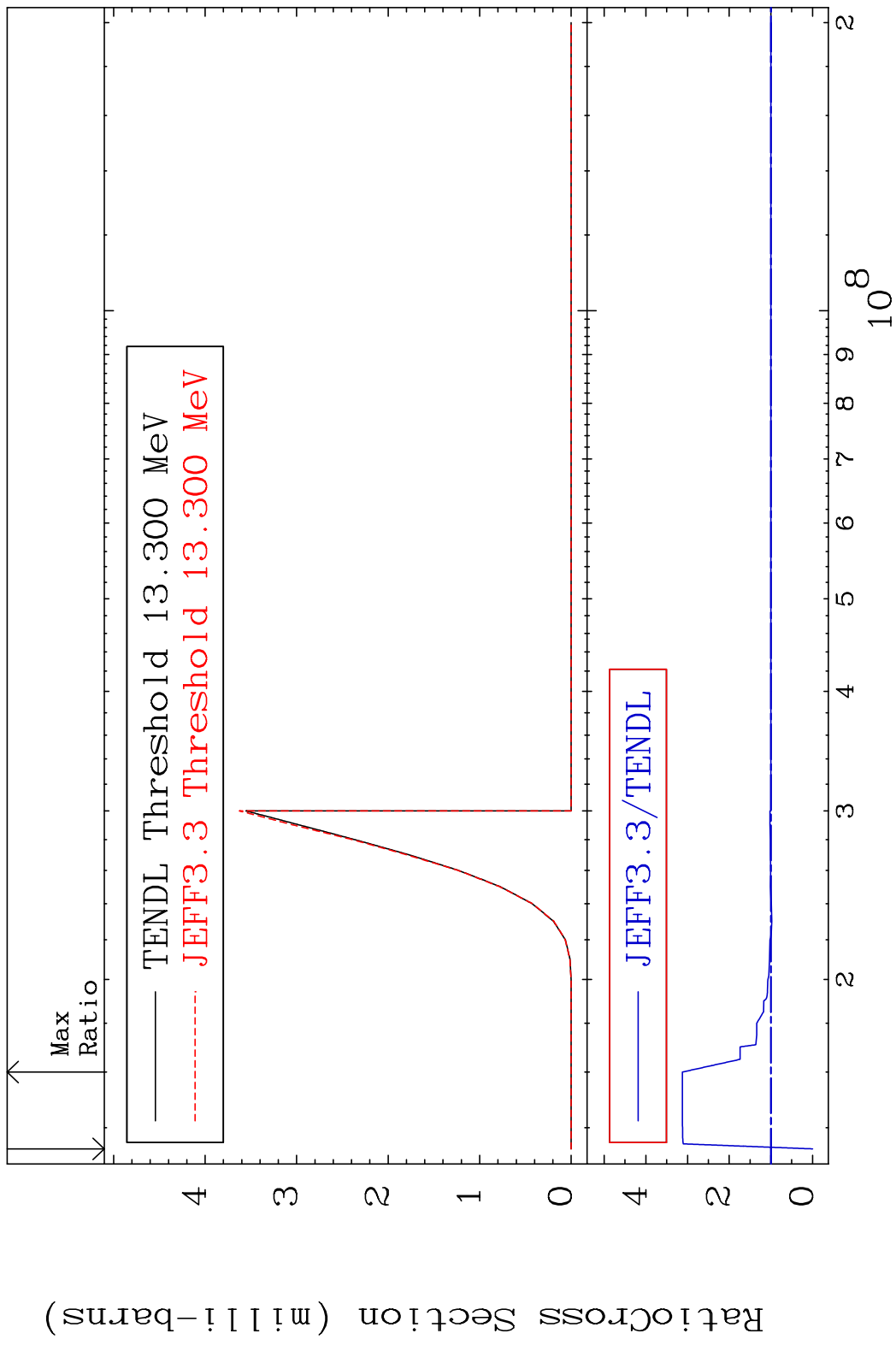
65 Incident Energy (eV) 68-Er-166



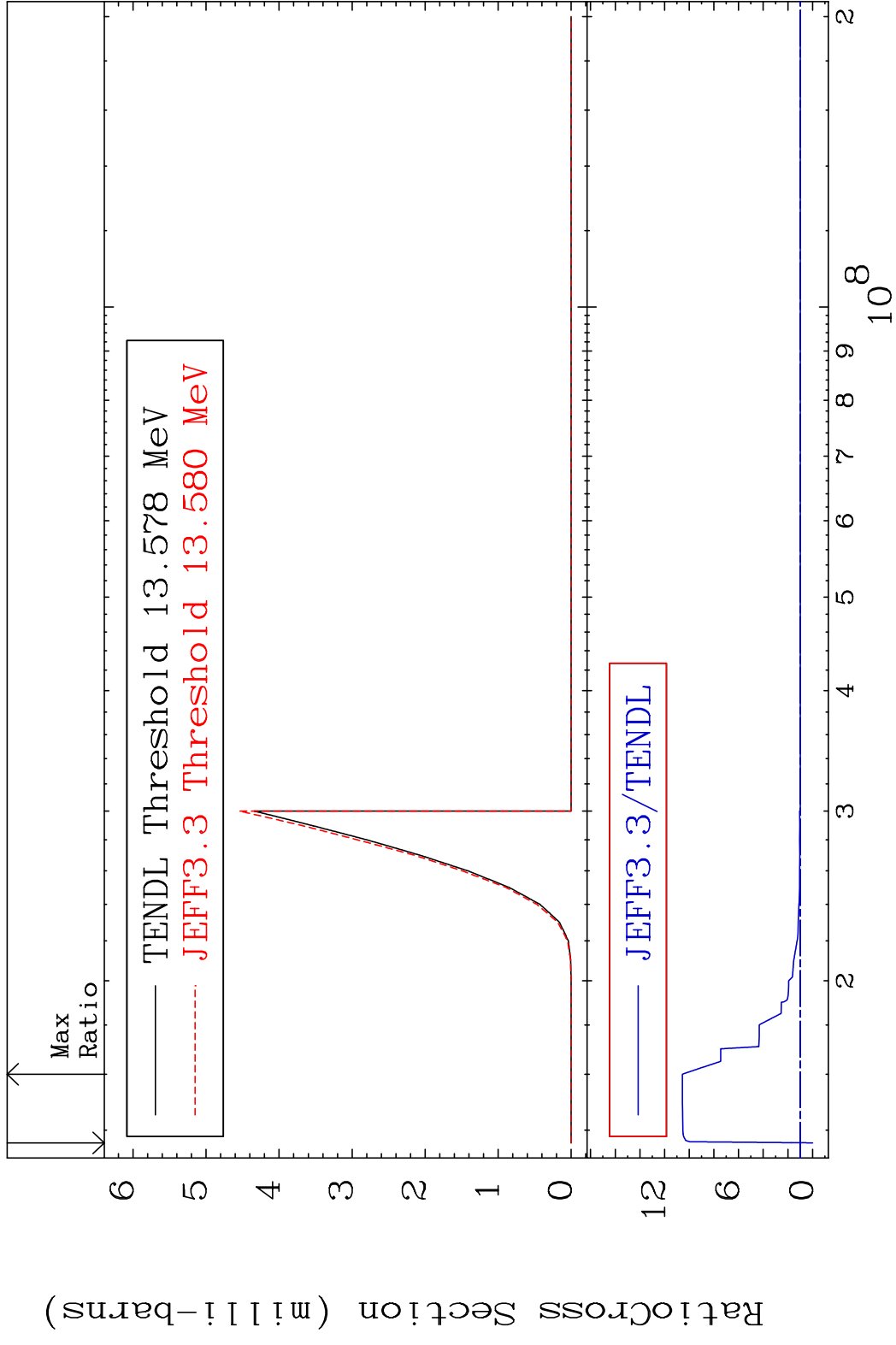


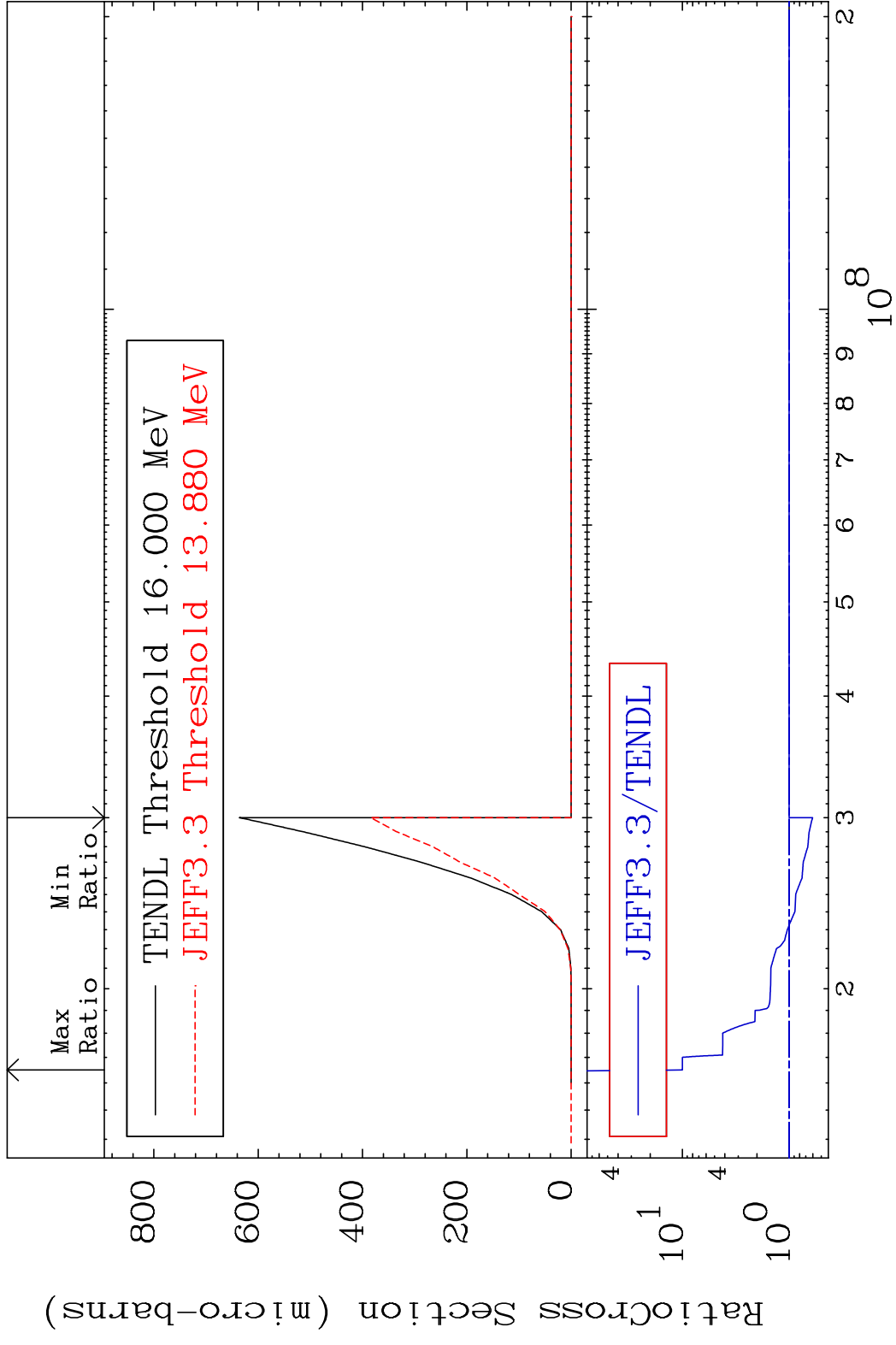
MAT 6837 (n, n') d:67-Ho-164g 68-Er-166
 Radionuclide Production Cross Section 180.01 dth 229.3 %

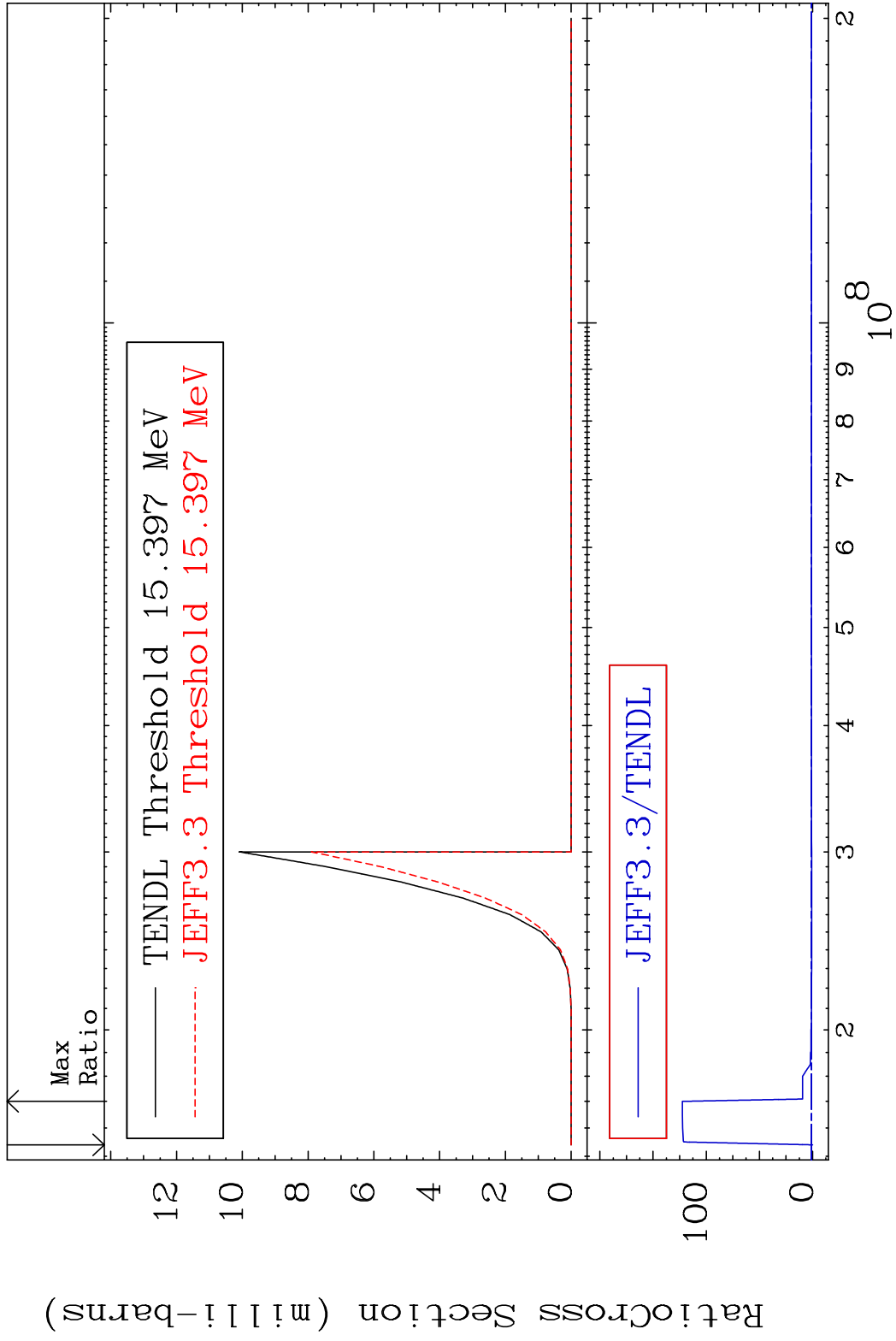


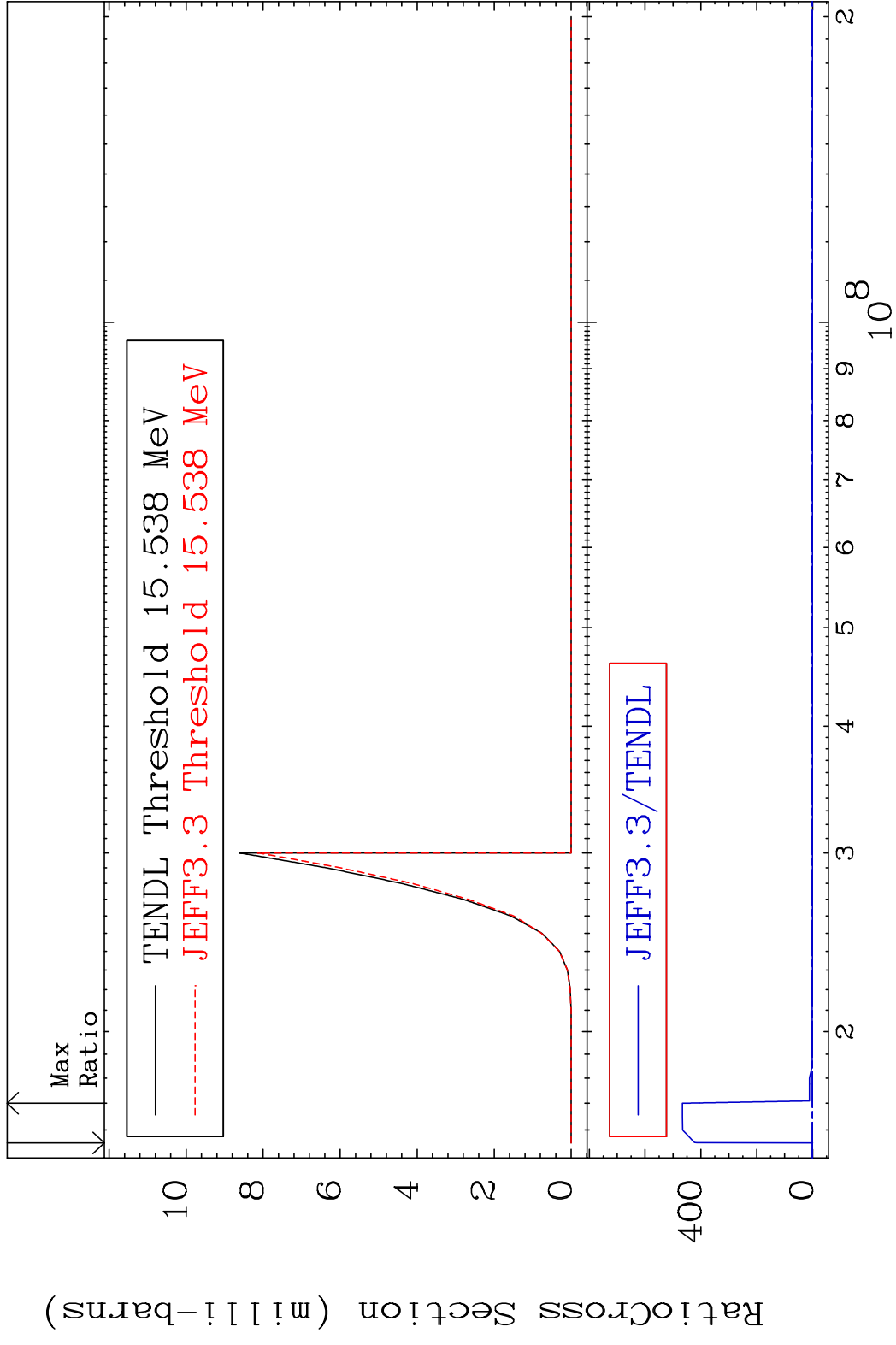


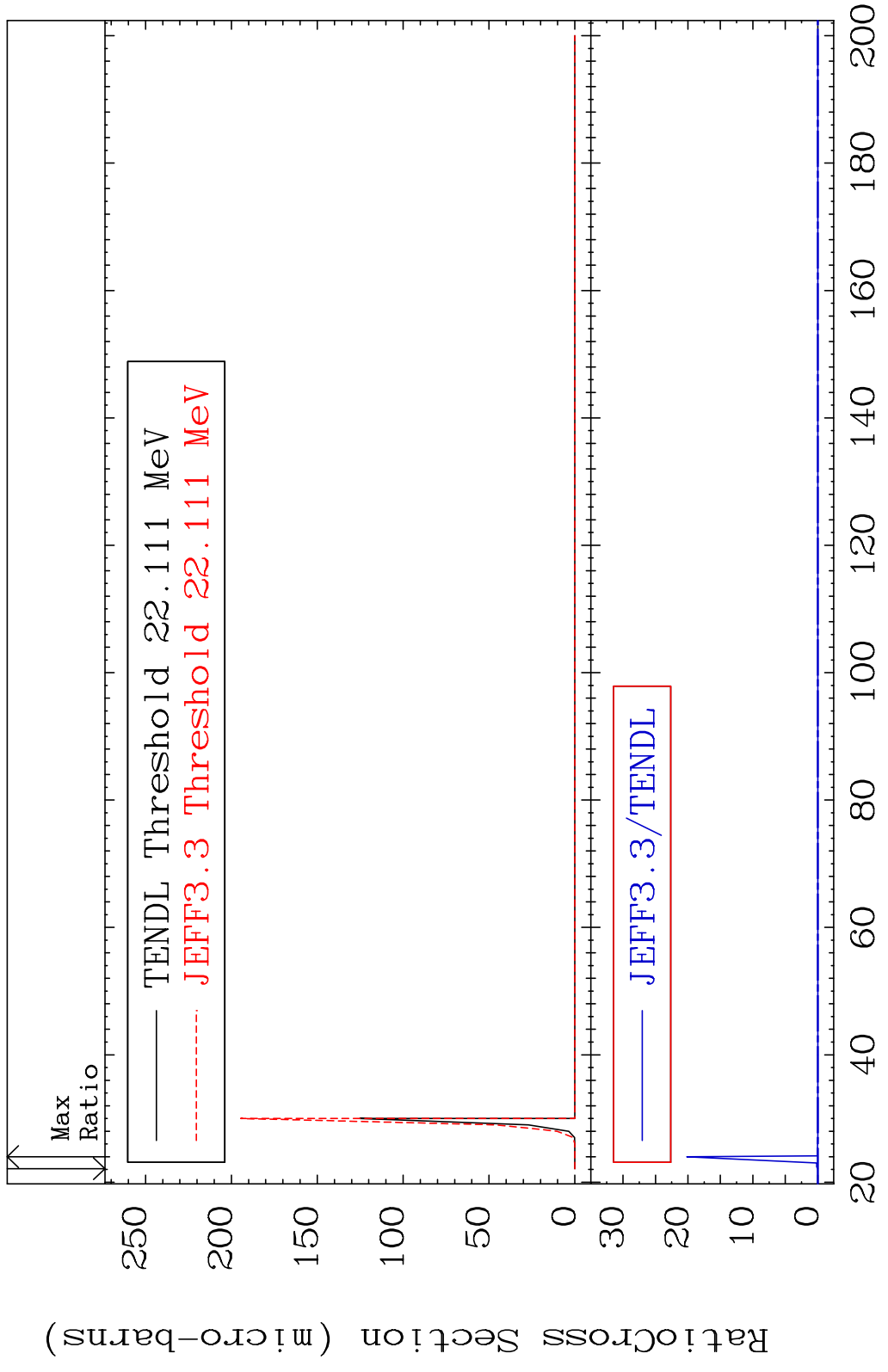
MAT 6837 (n, n') t:67-Ho-163g 68-Er-166
 Radionuclide Production Cross Section 1800 d to 955.8 %

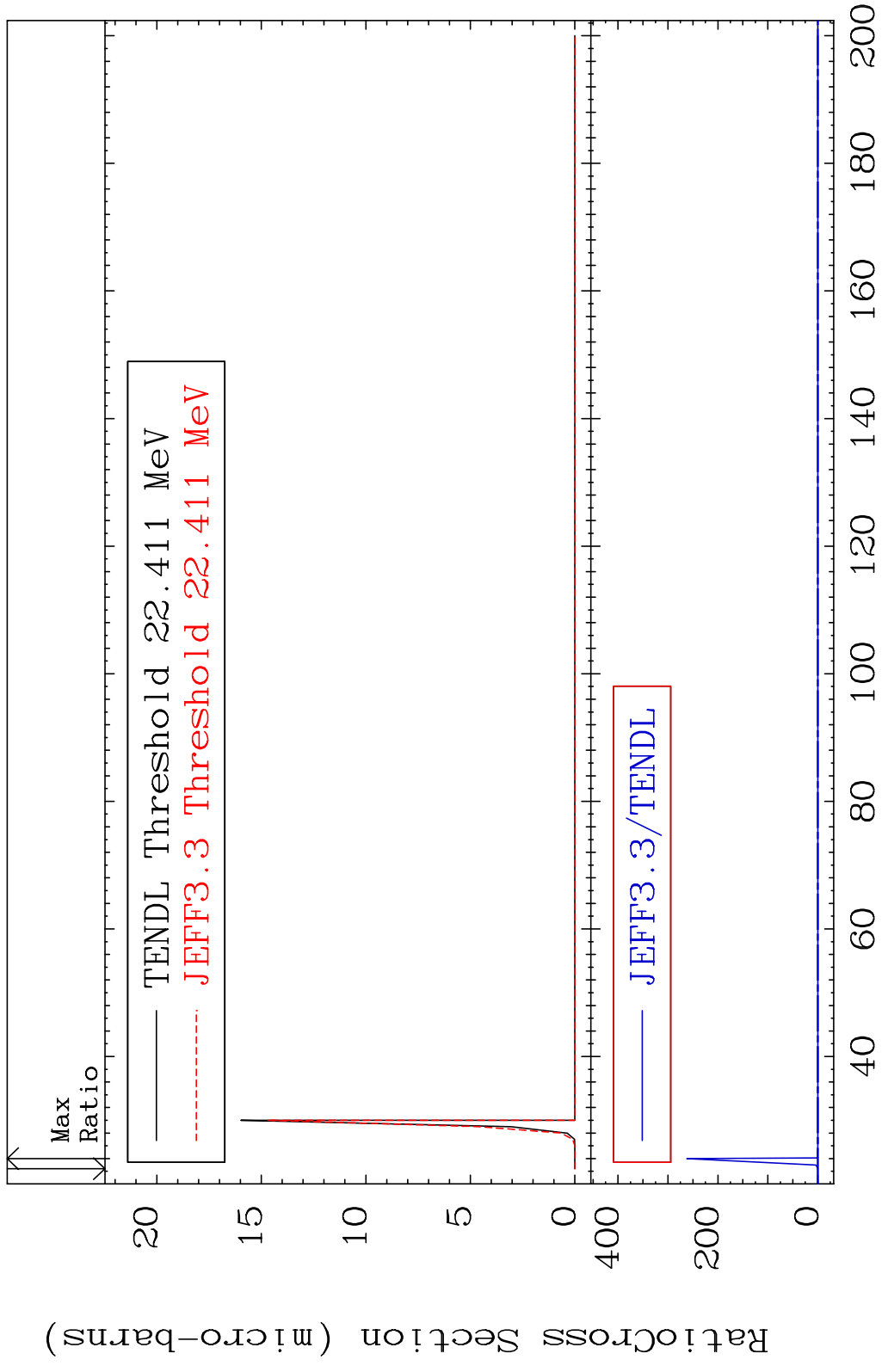


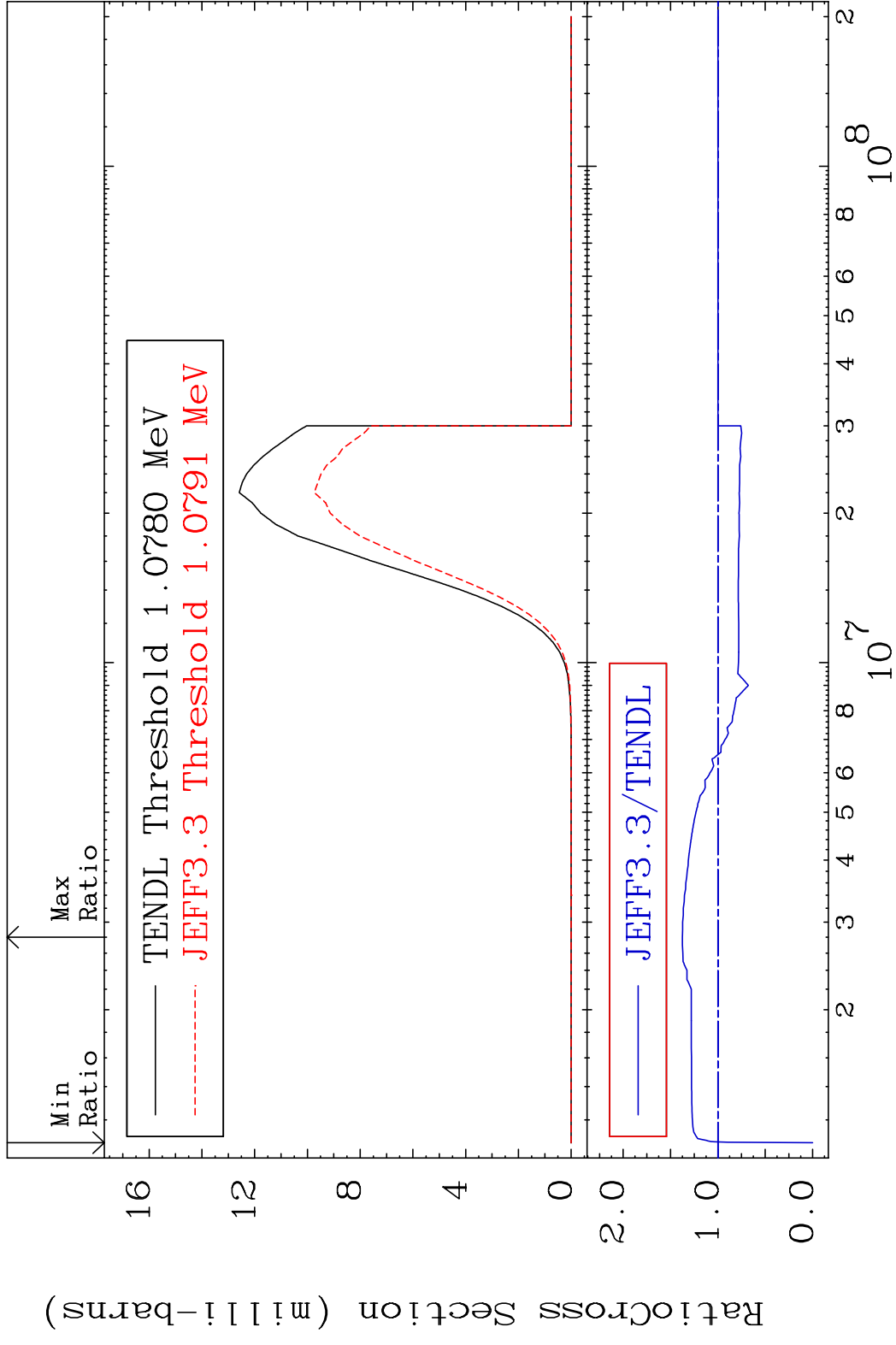


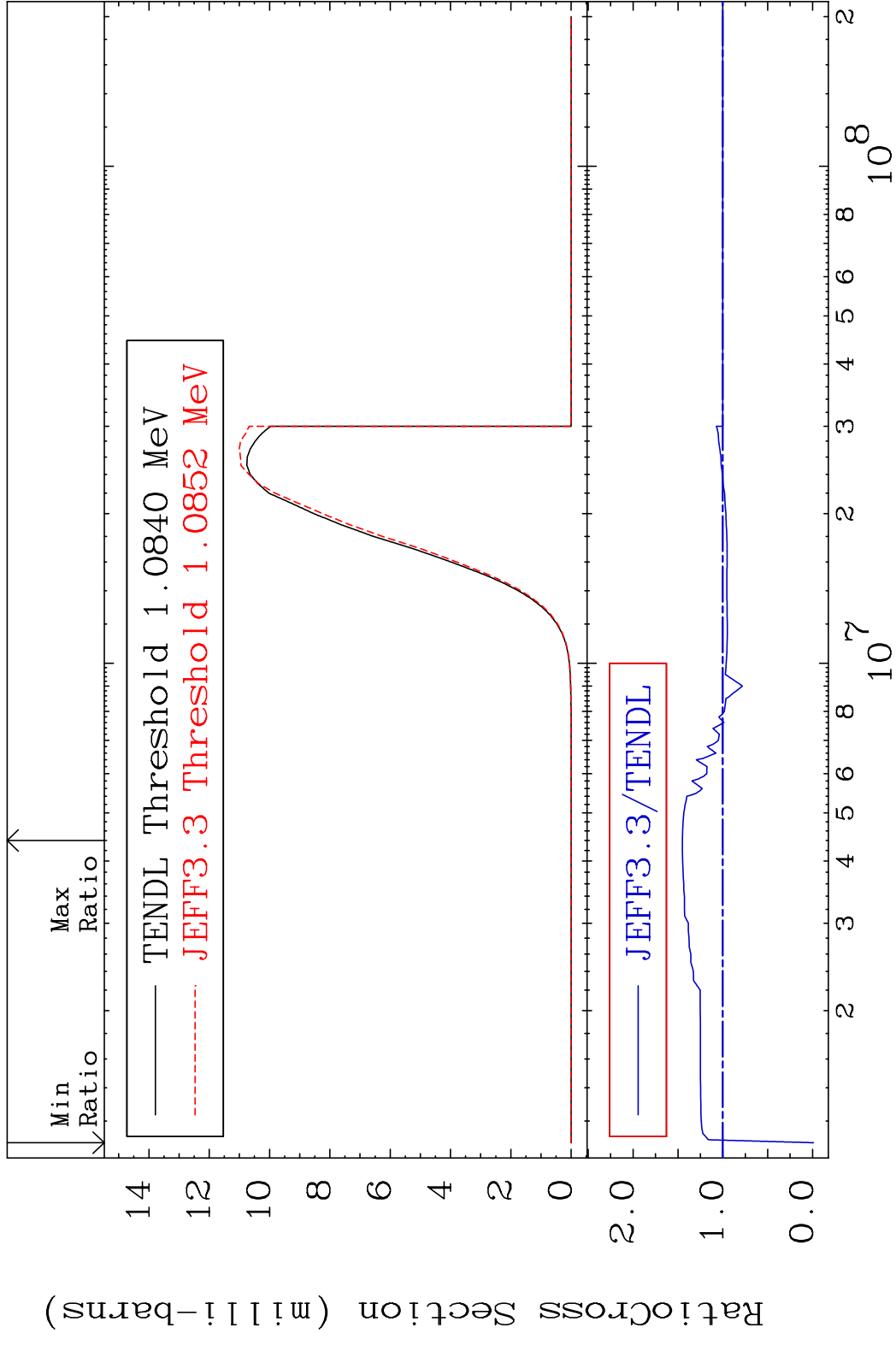




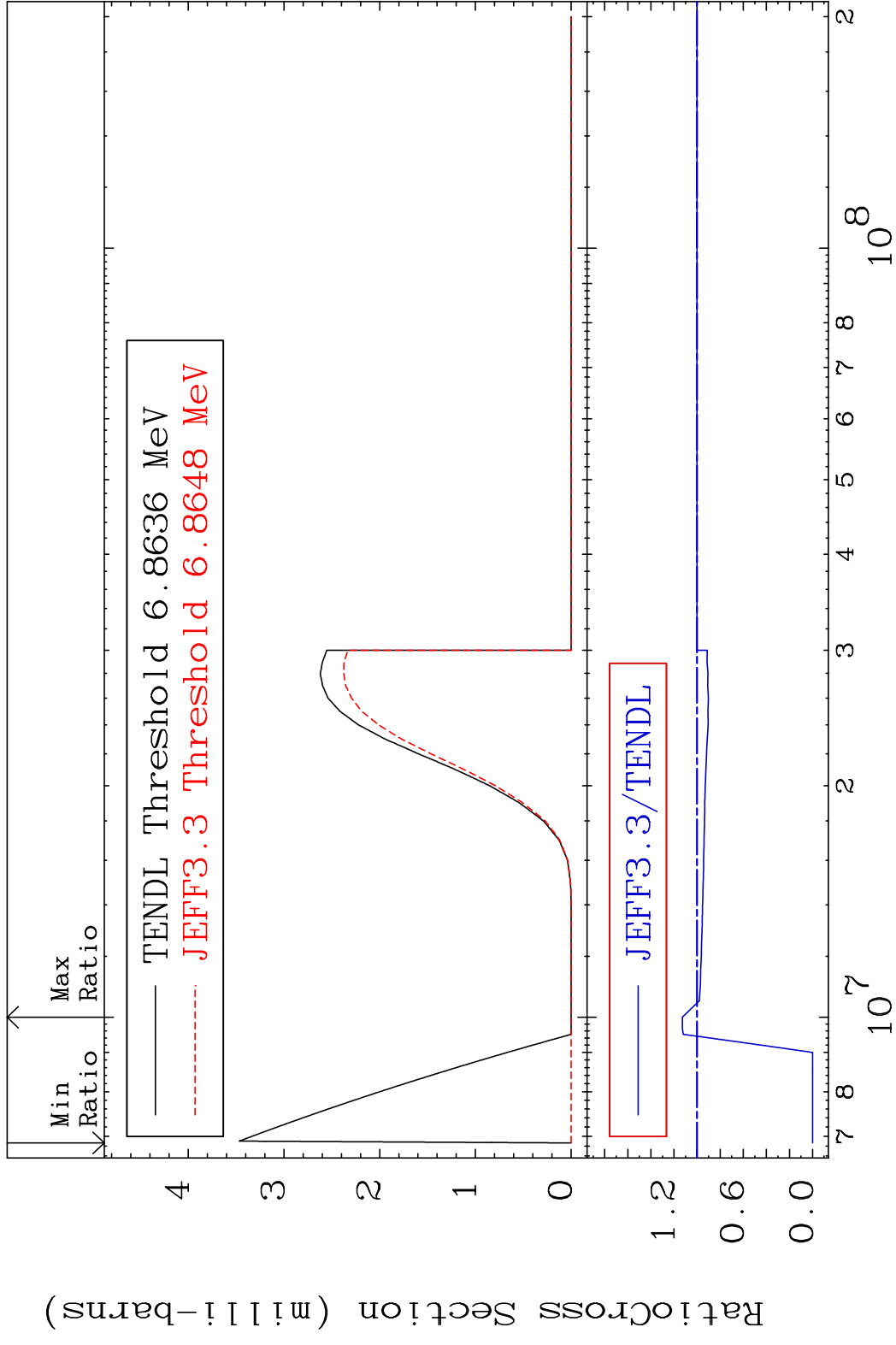


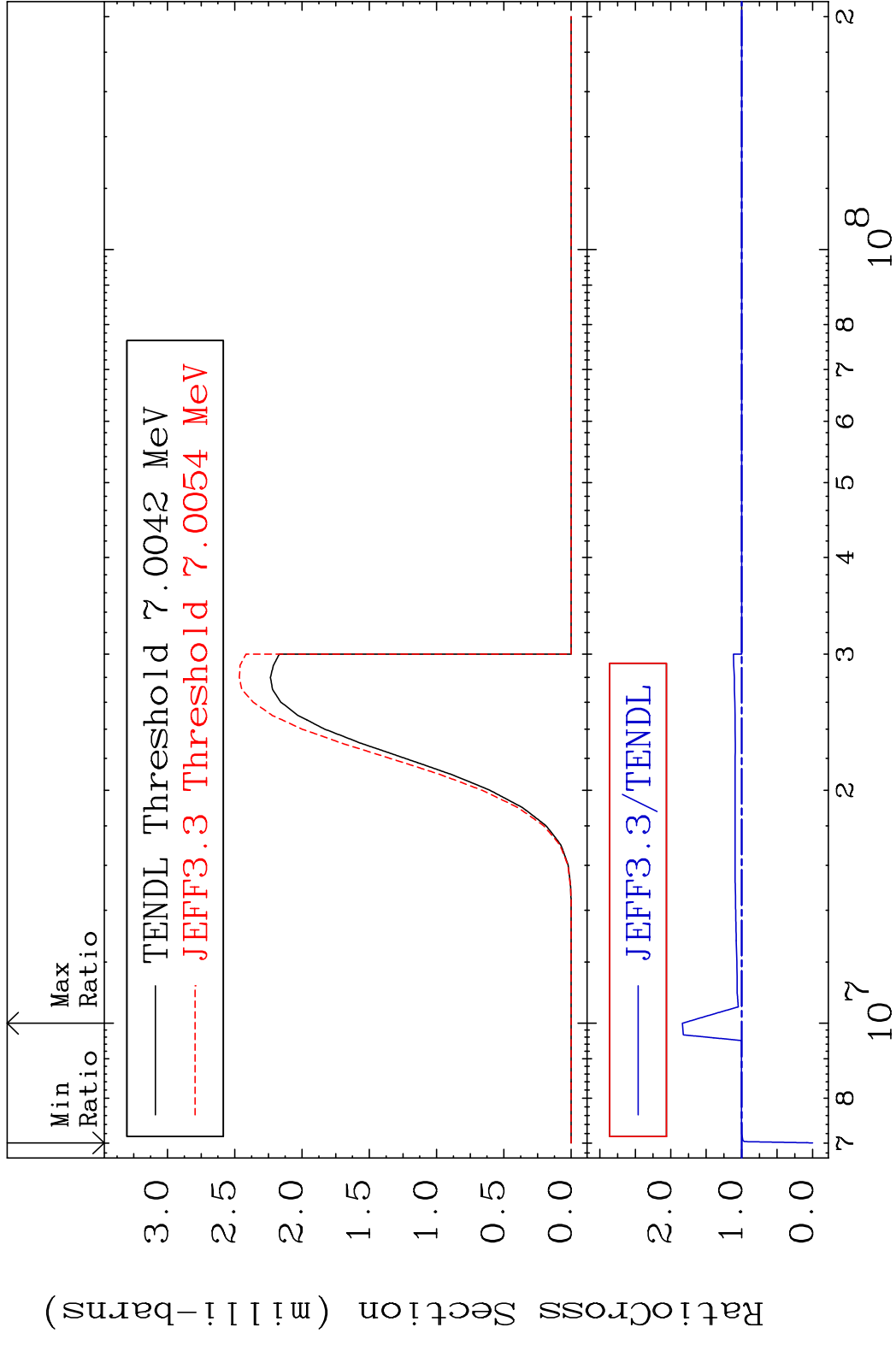




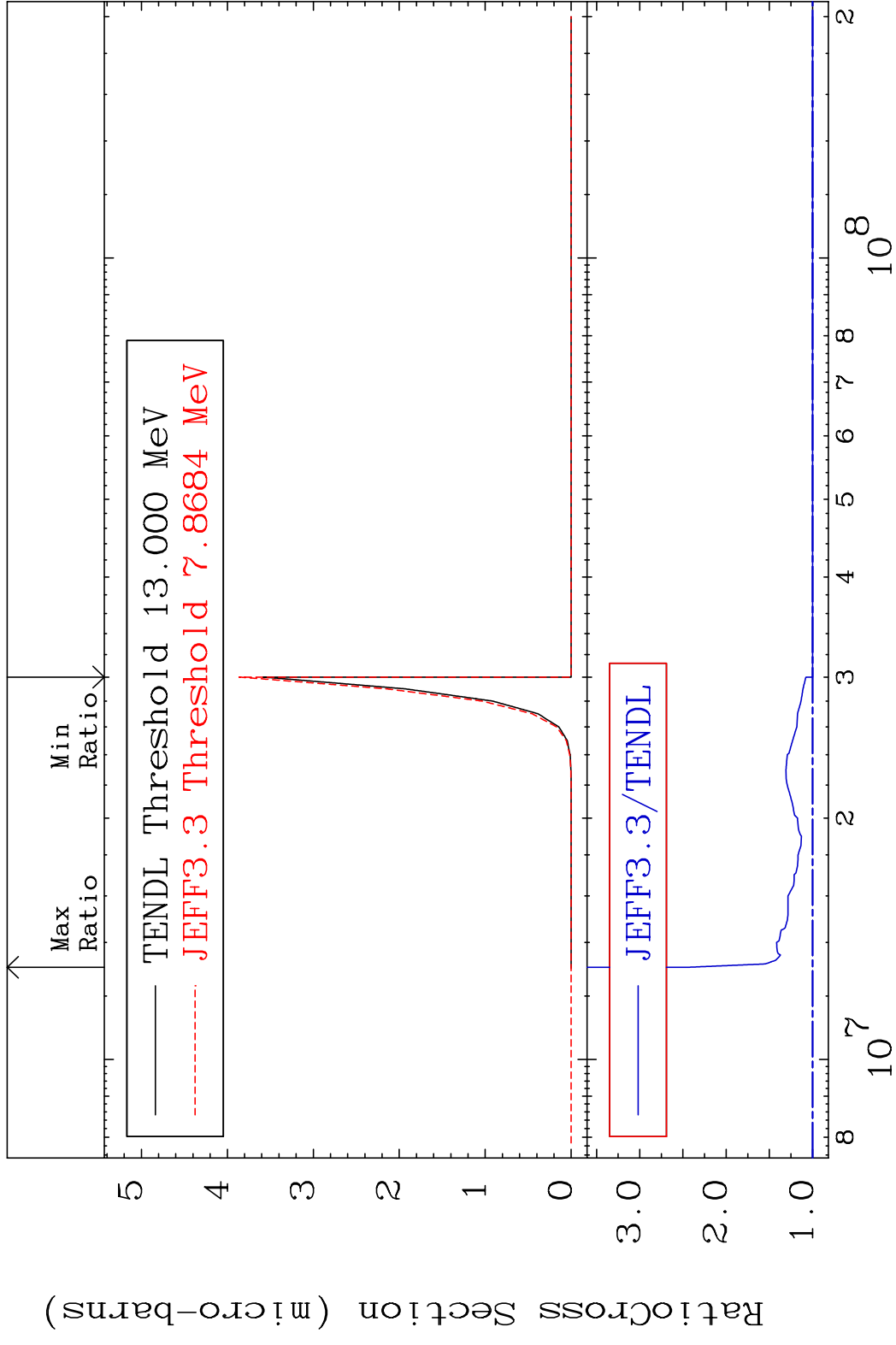


MAT 6837 (n, t):67-Ho-164g 68-Er-166
 Radionuclide Production Cross Section 180.01 dth 12.76 %





MAT 6837 (n,2p):66-Dy-165g 68-Er-166
 Radionuclide Production Cross Section 150.7 %



80 Incident Energy (eV) 68-Er-166

