

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

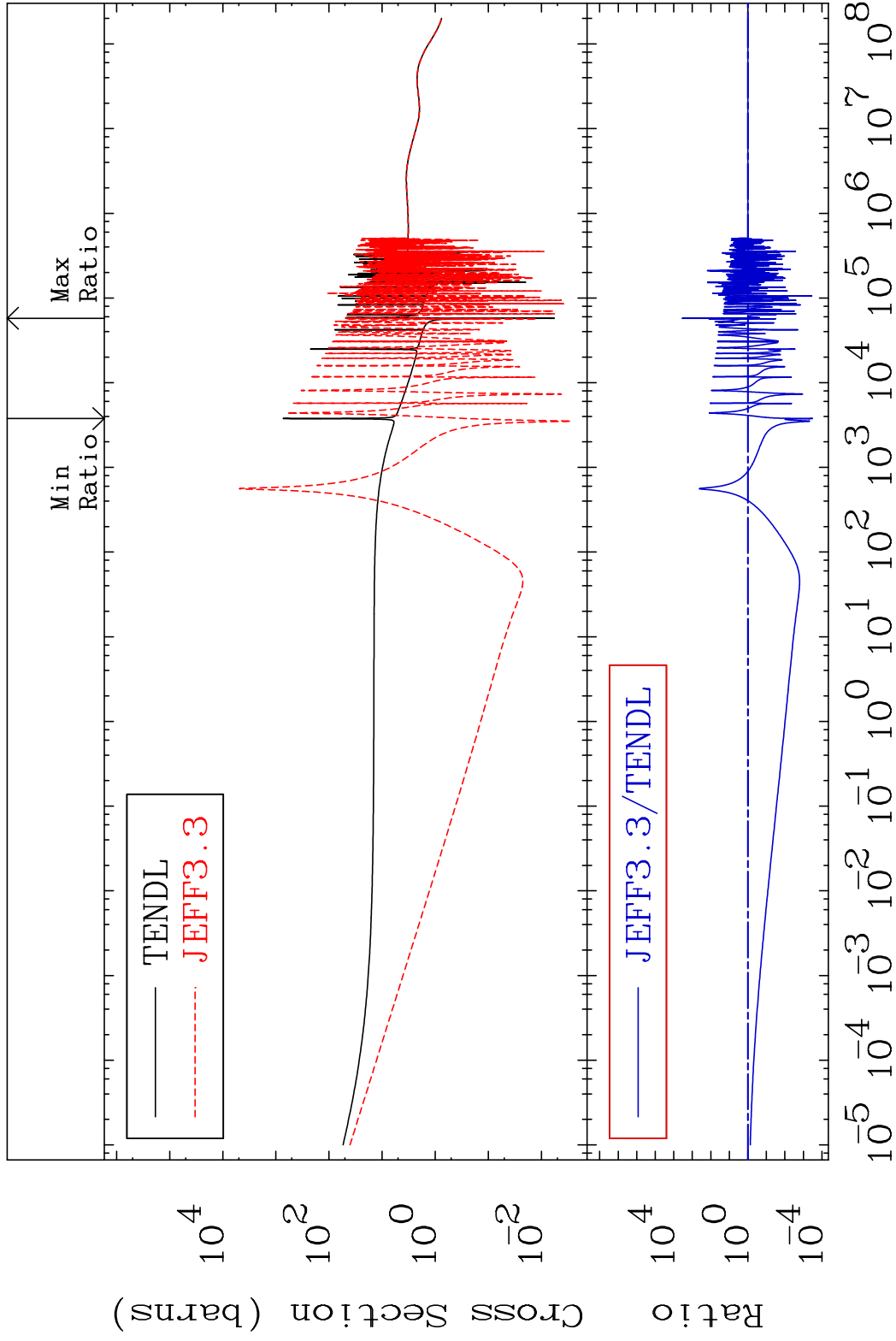
Press Mouse Button to Start

MAT 1831

Total

18-Ar-38

Cross Section -99.97 To 9999. %



1

Incident Energy (eV)

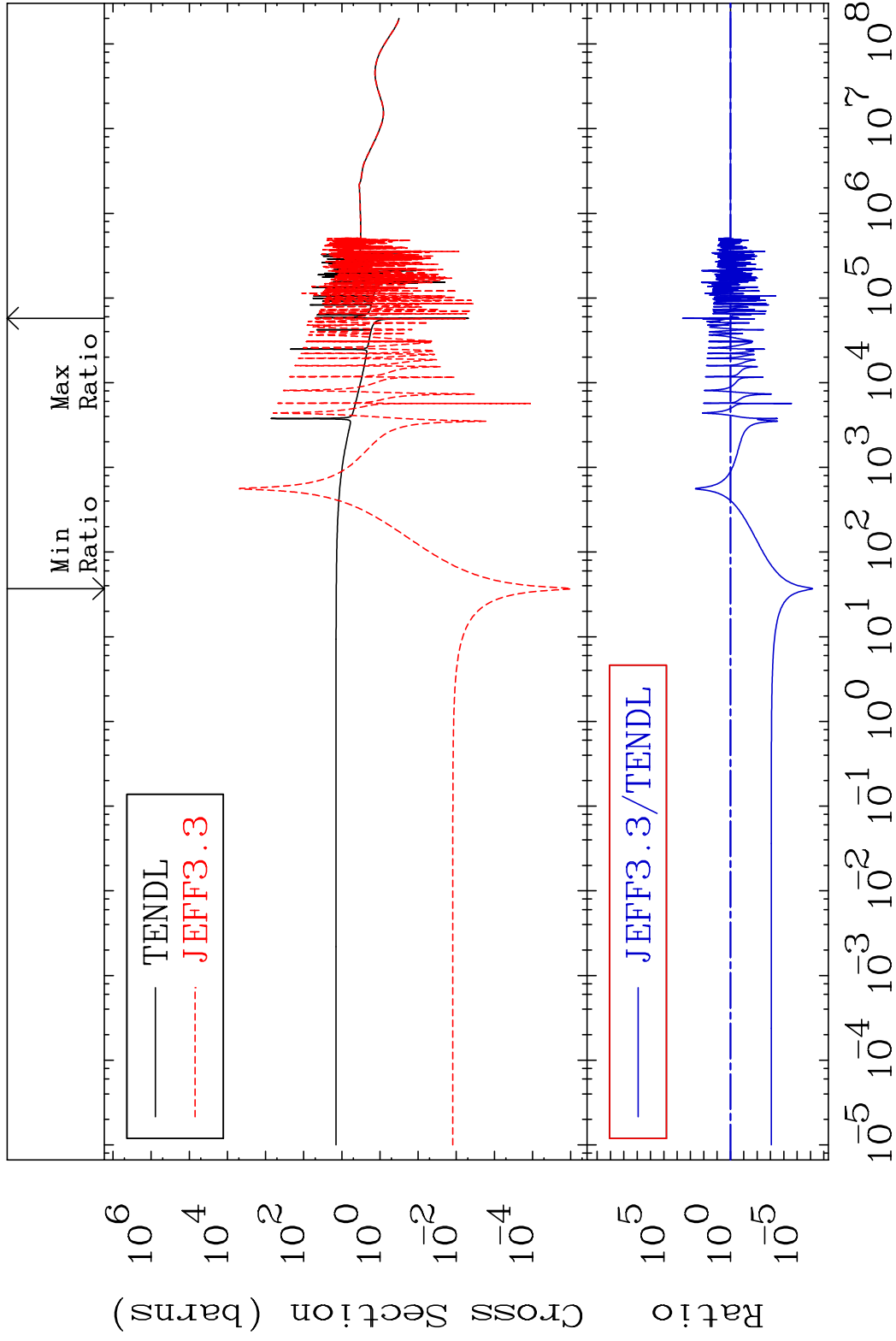
18-Ar-38

MAT 1831

Elastic

18-Ar-38

Cross Section -100.0 To 9999. %

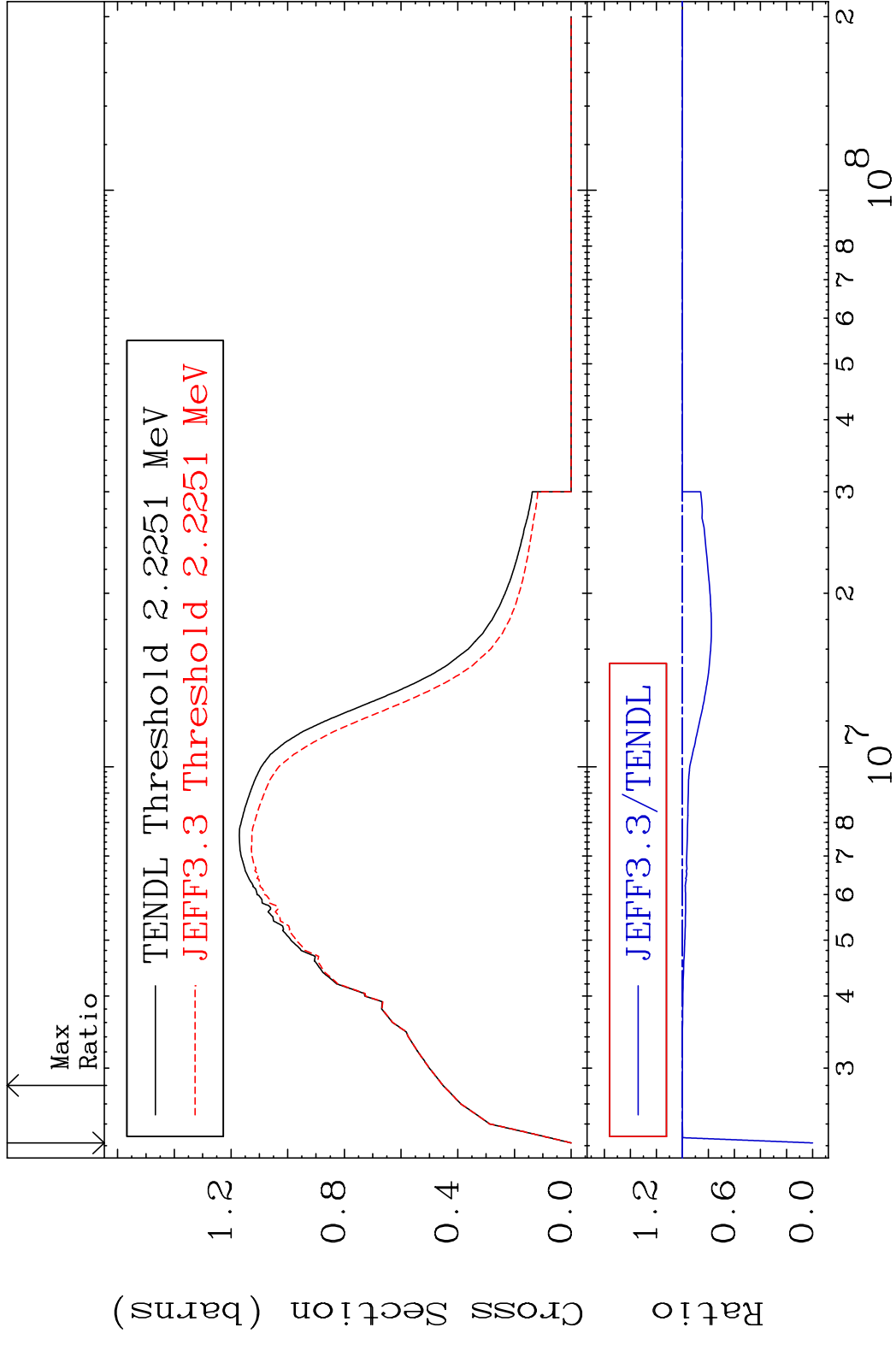


2

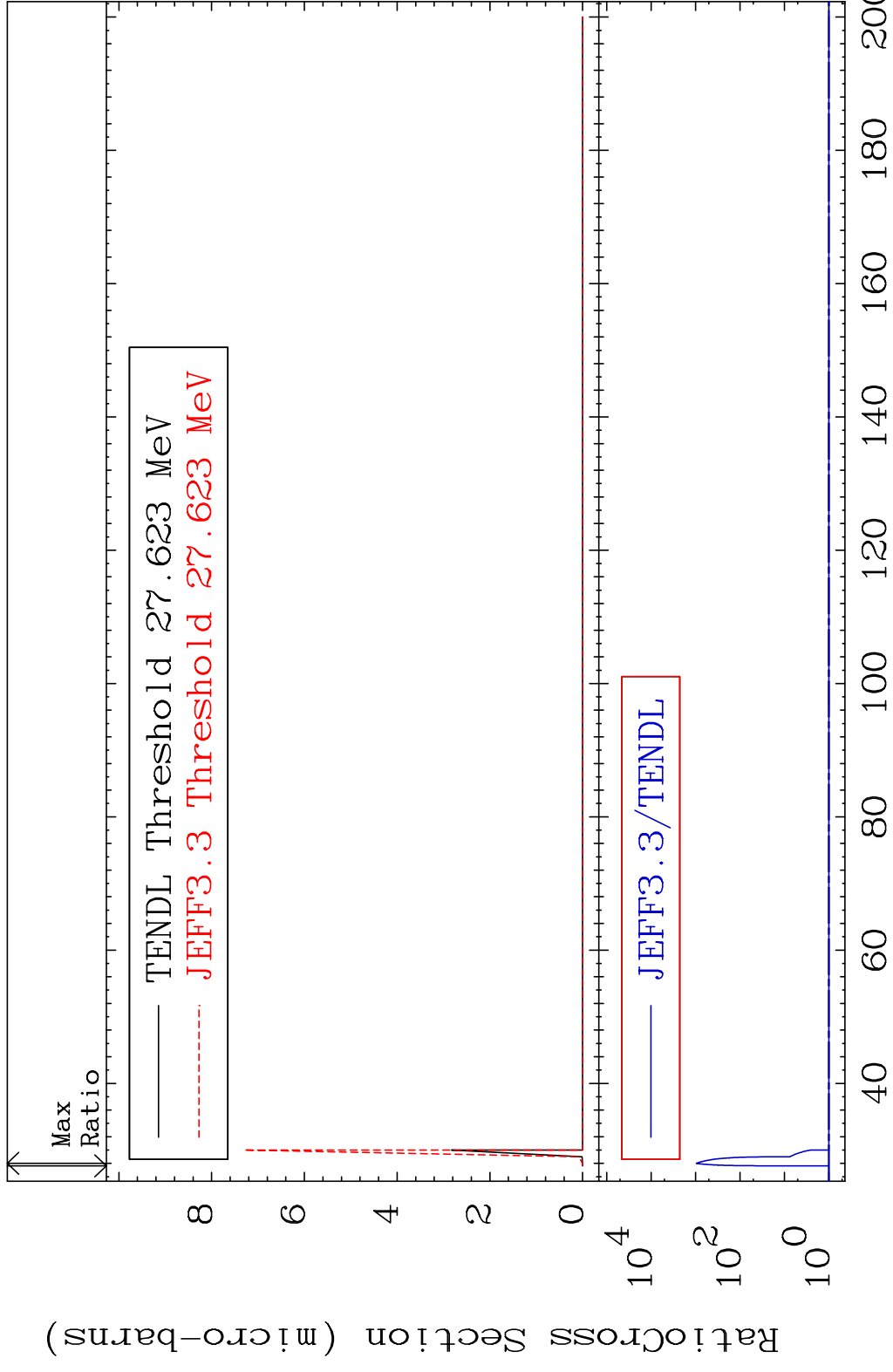
Incident Energy (eV)

18-Ar-38

MAT 1831 Inelastic 18-Ar-38
 Cross Section -100.0 To 0.030 %



MAT 1831 (n,2n) d 18-Ar-38
 Cross Section 0.000 To 9999. %

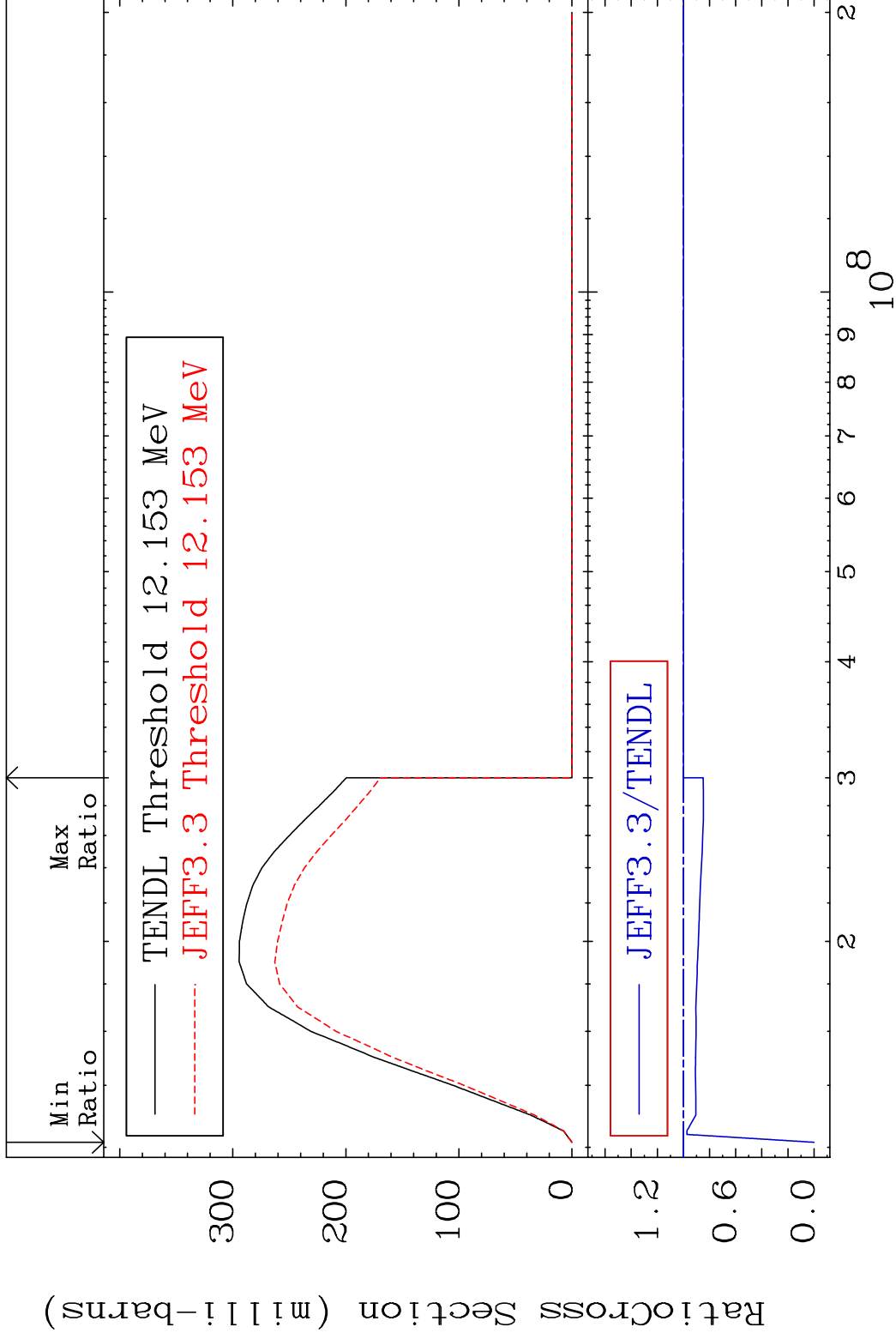


MAT 1831

(n, 2n)

18-Ar-38

Cross Section -100.0 To 0.000 %



5

Incident Energy (eV)

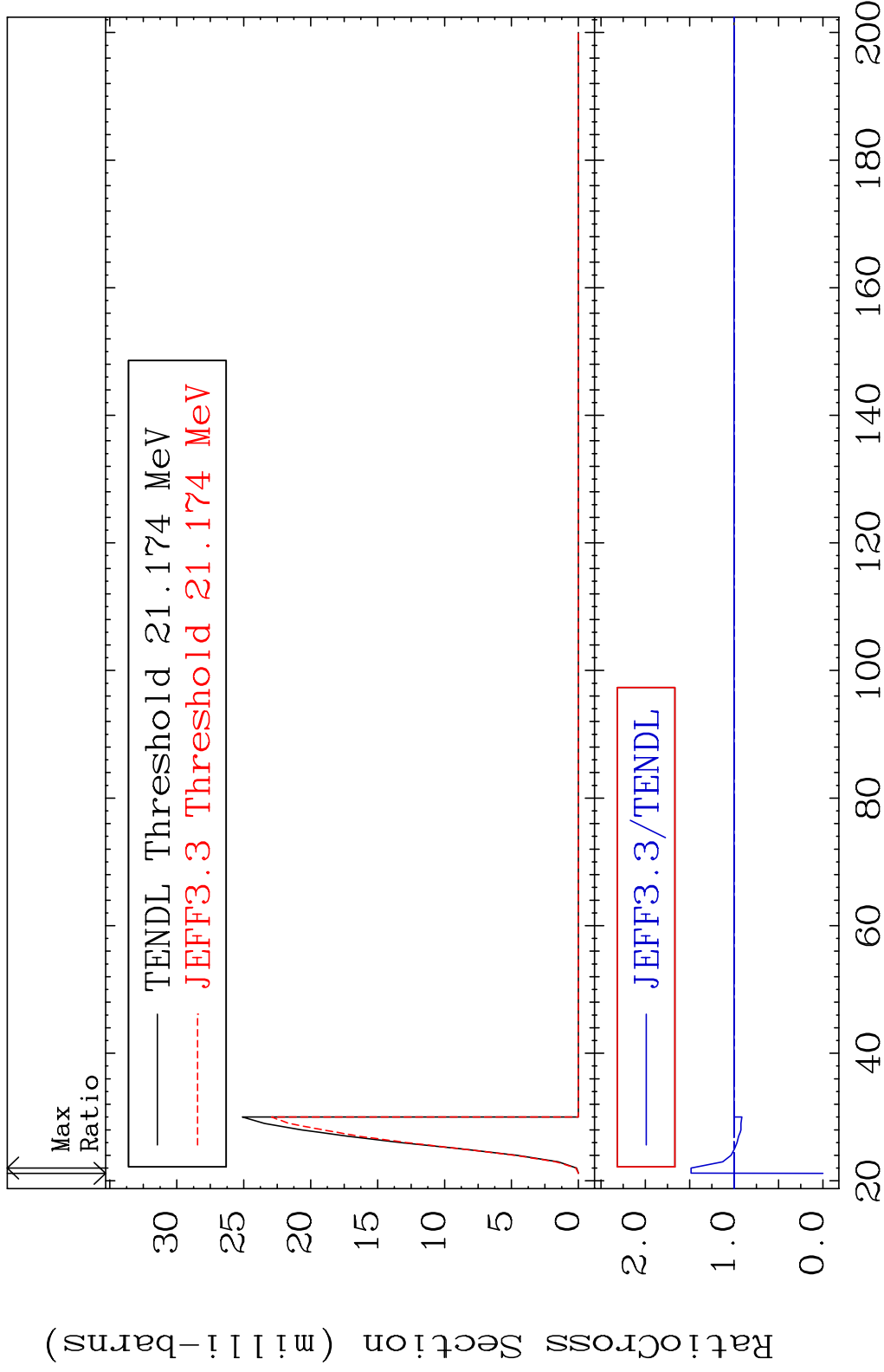
18-Ar-38

MAT 1831

(n,3n)

18-Ar-38

Cross Section -100.0 To 48.54 %

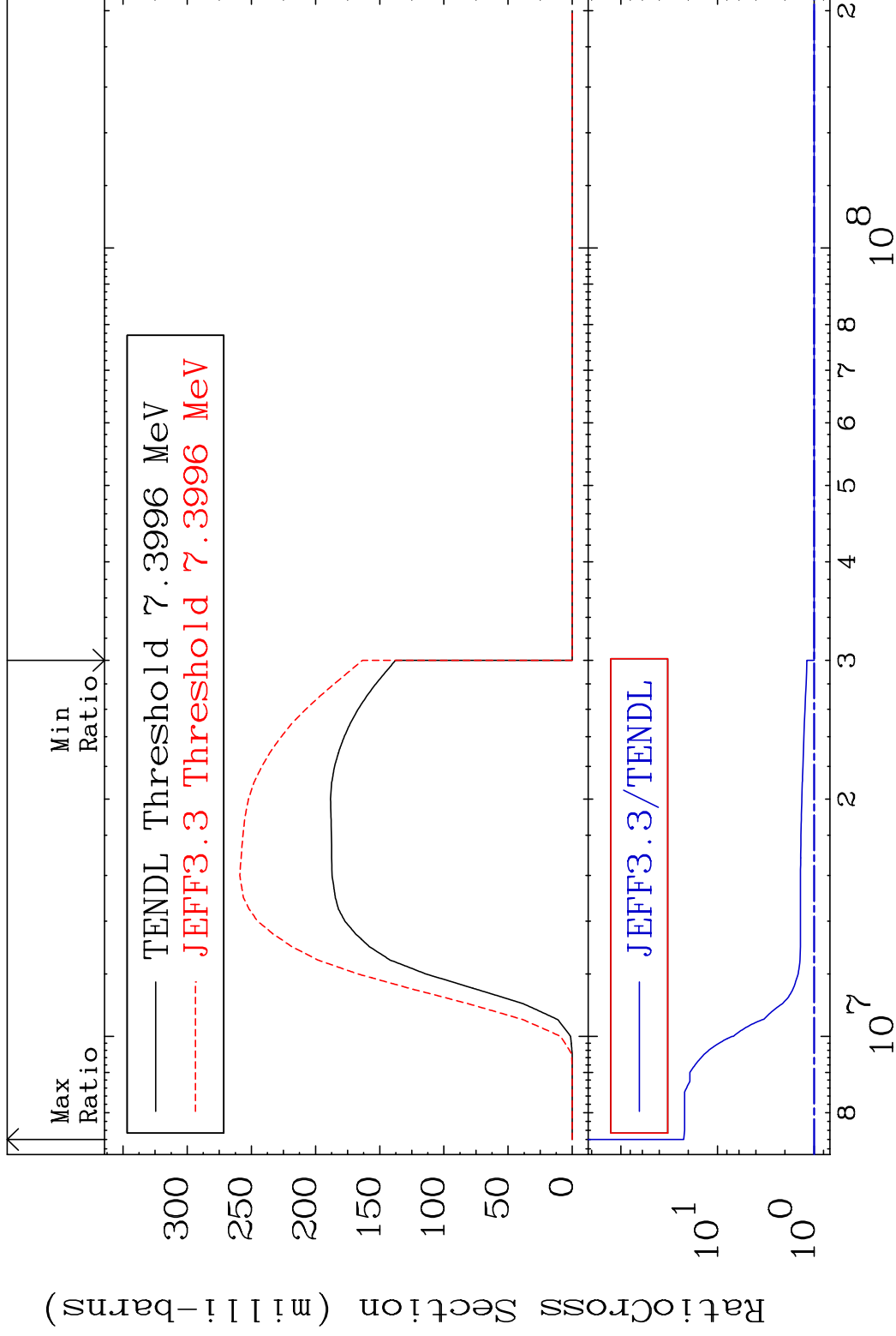


MAT 1831

18-Ar-38

(n, n') α

Cross Section 0.000 To 2137. %

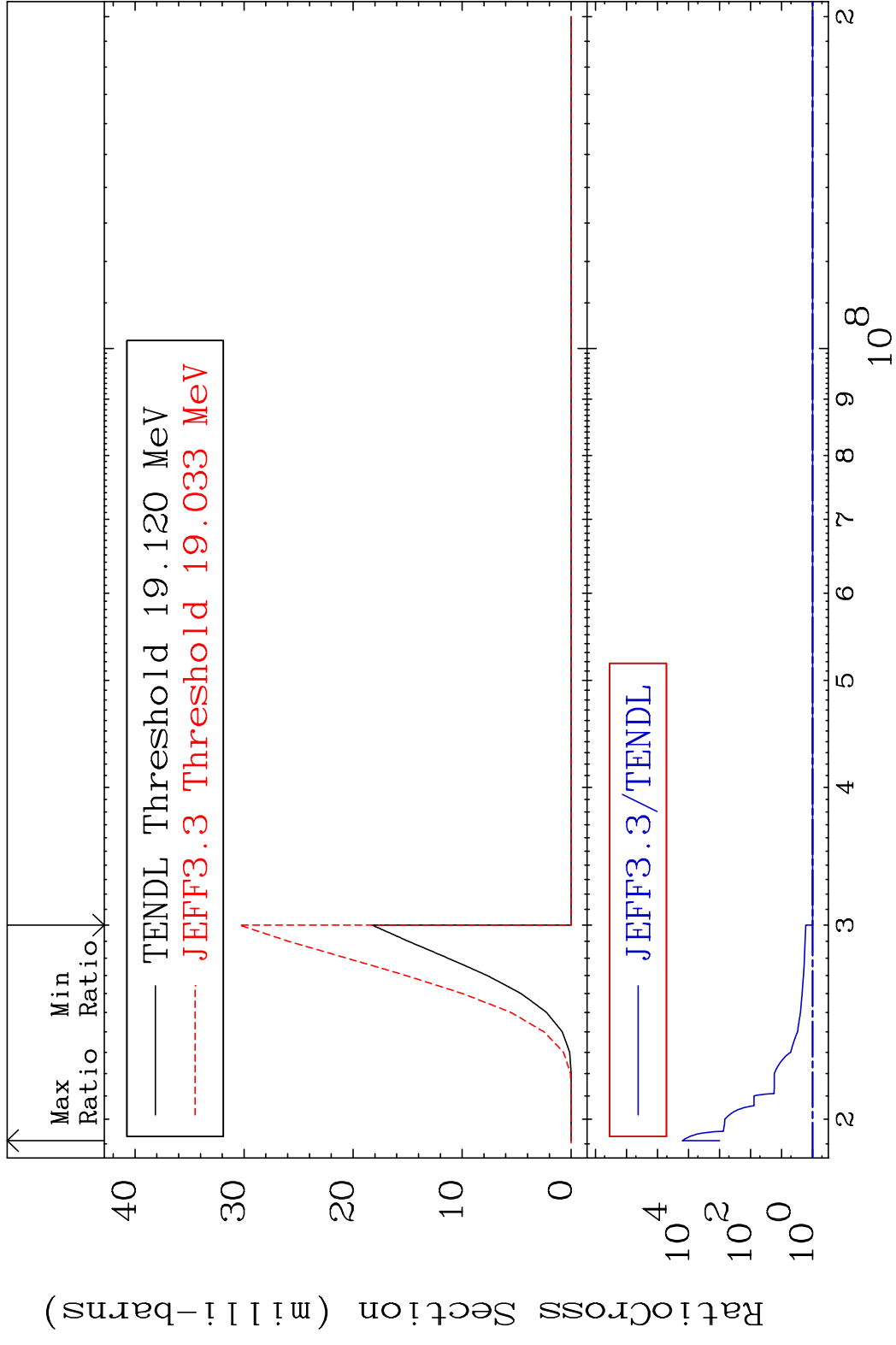


7

Incident Energy (eV)

18-Ar-38

MAT 1831 $(n, 2n) \alpha$ 18-Ar-38
 Cross Section 0.000 To 9999. %

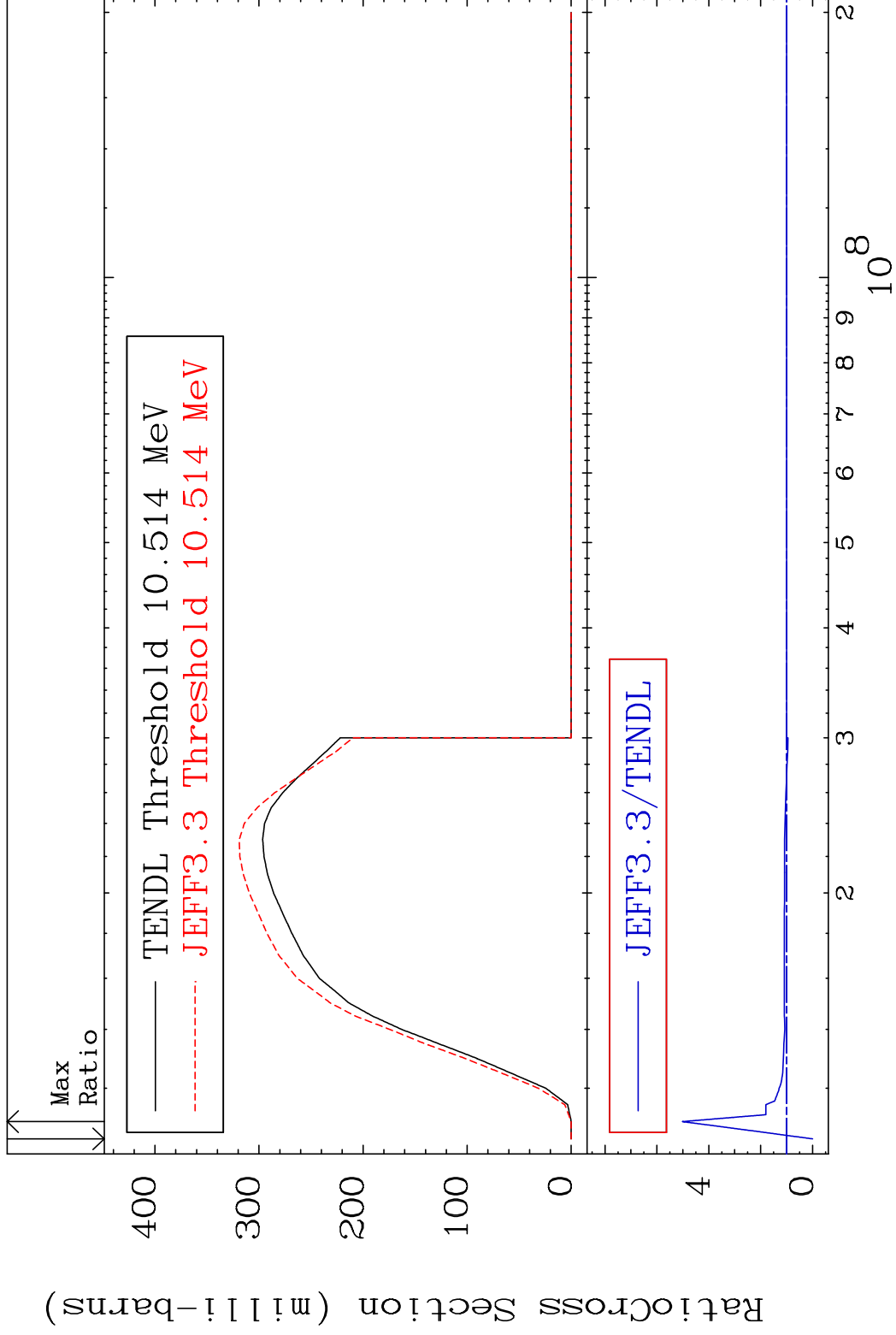


MAT 1831

(n, n') p

18-Ar-38

Cross Section -100.0 To 401.8 %

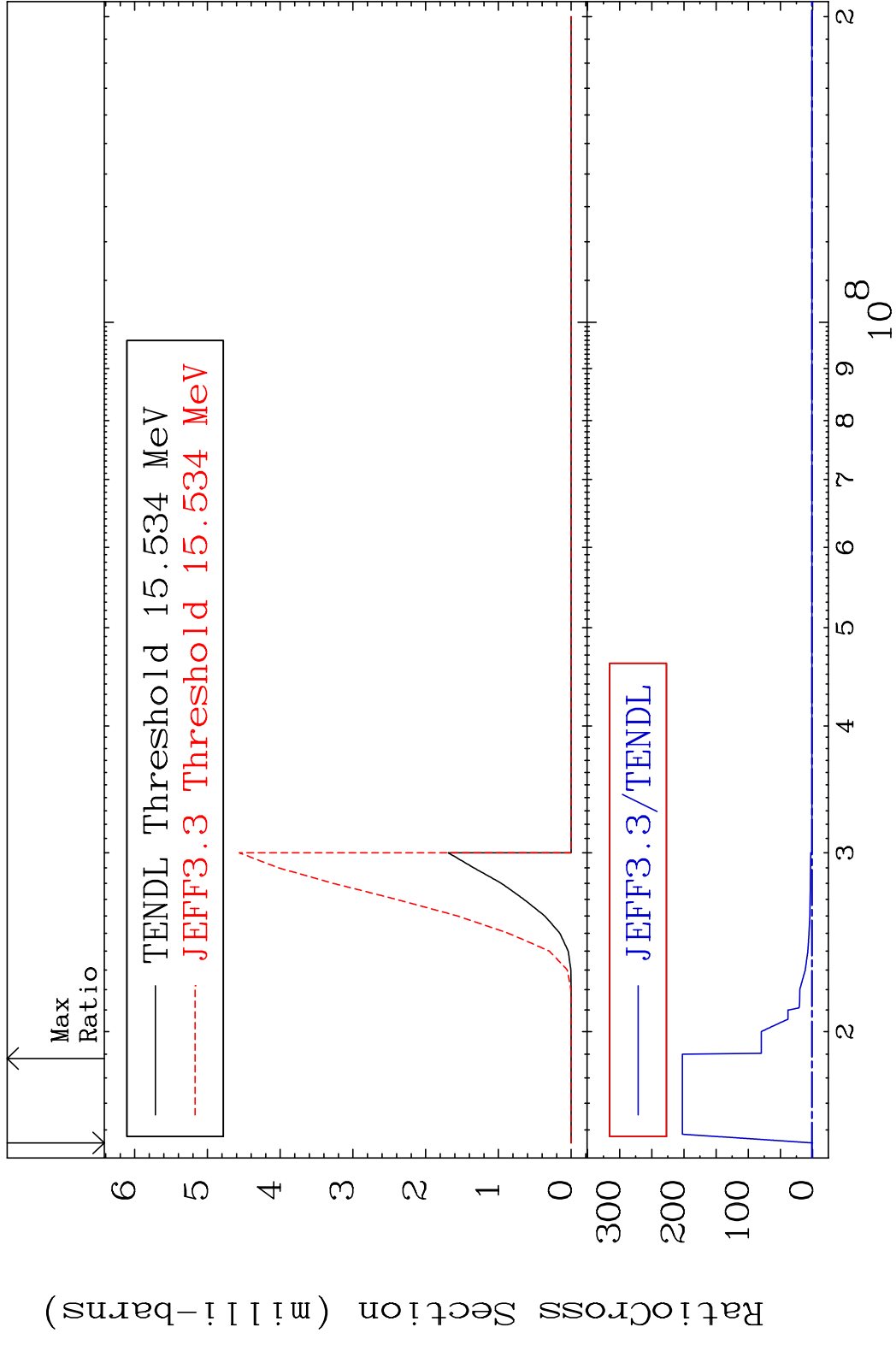


9

Incident Energy (eV)

18-Ar-38

MAT 1831 (n, n') 2α 18-Ar-38
 Cross Section -100.0 To 9999. %



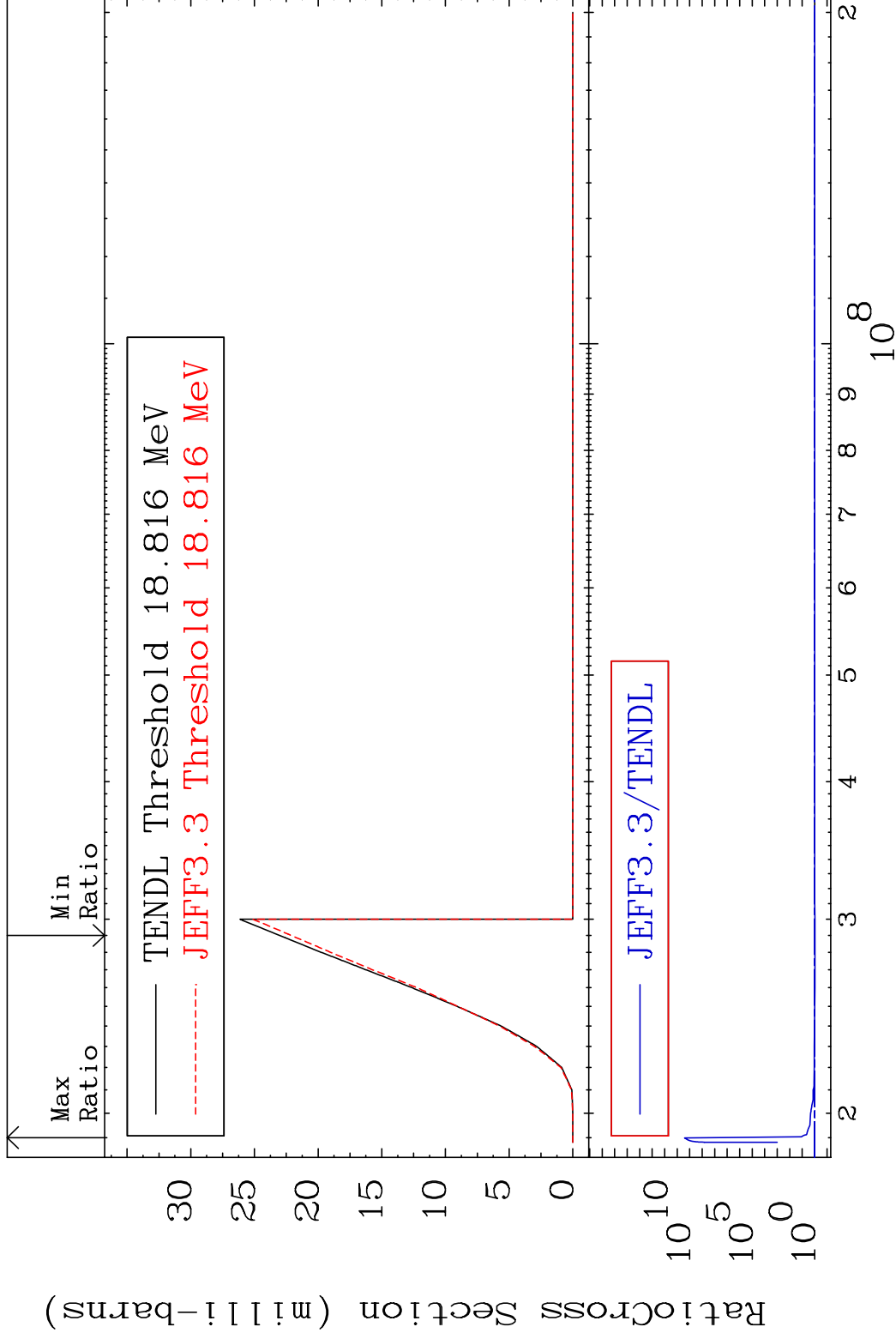
10 Incident Energy (eV) 18-Ar-38

MAT 1831

(n, n') d

18-Ar-38

Cross Section -4.047 To 9999. %



11

Incident Energy (eV)

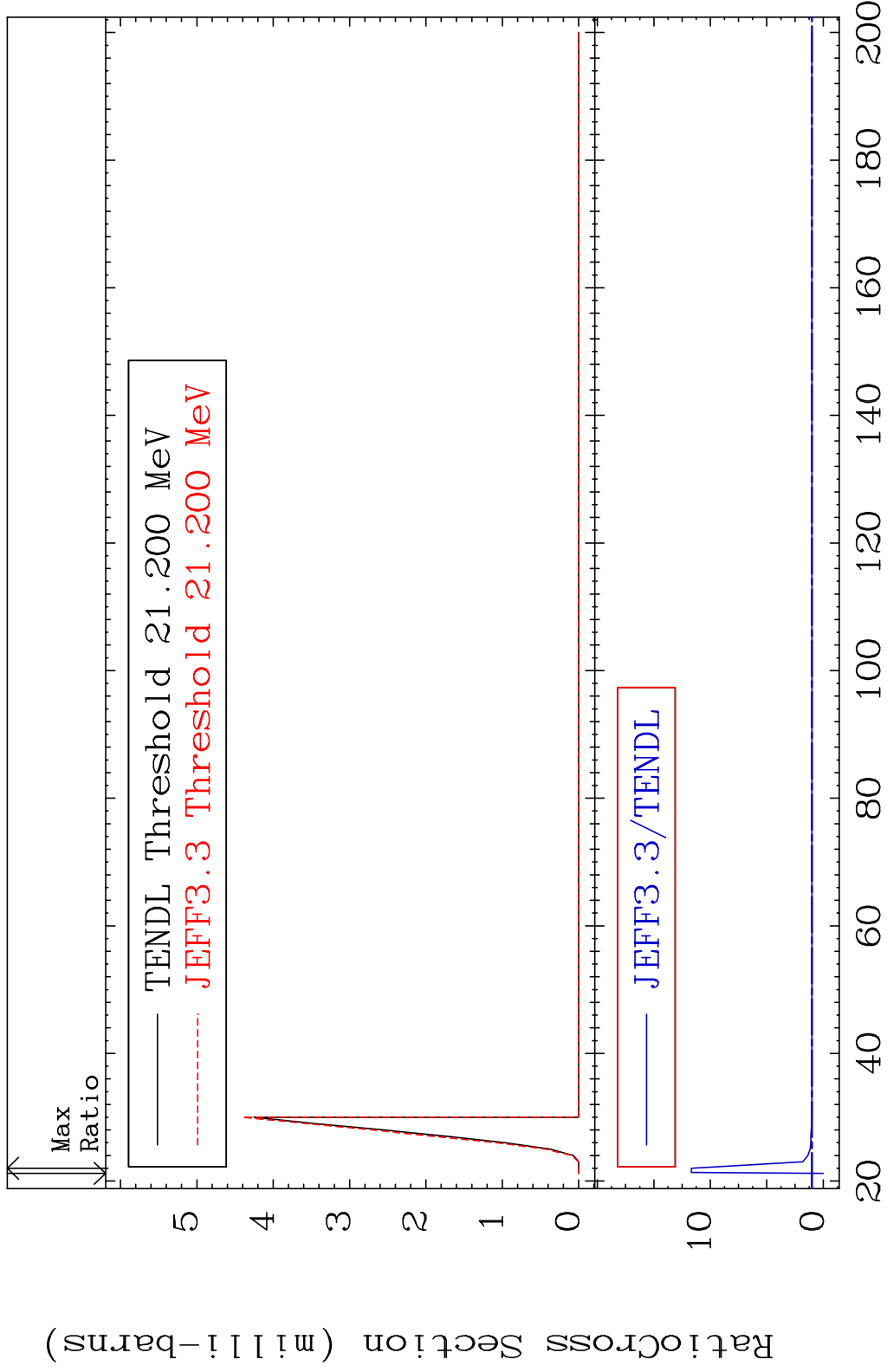
18-Ar-38

MAT 1831

(n, n') t

18-Ar-38

Cross Section -100.0 To 1068. %



12

Incident Energy (MeV)

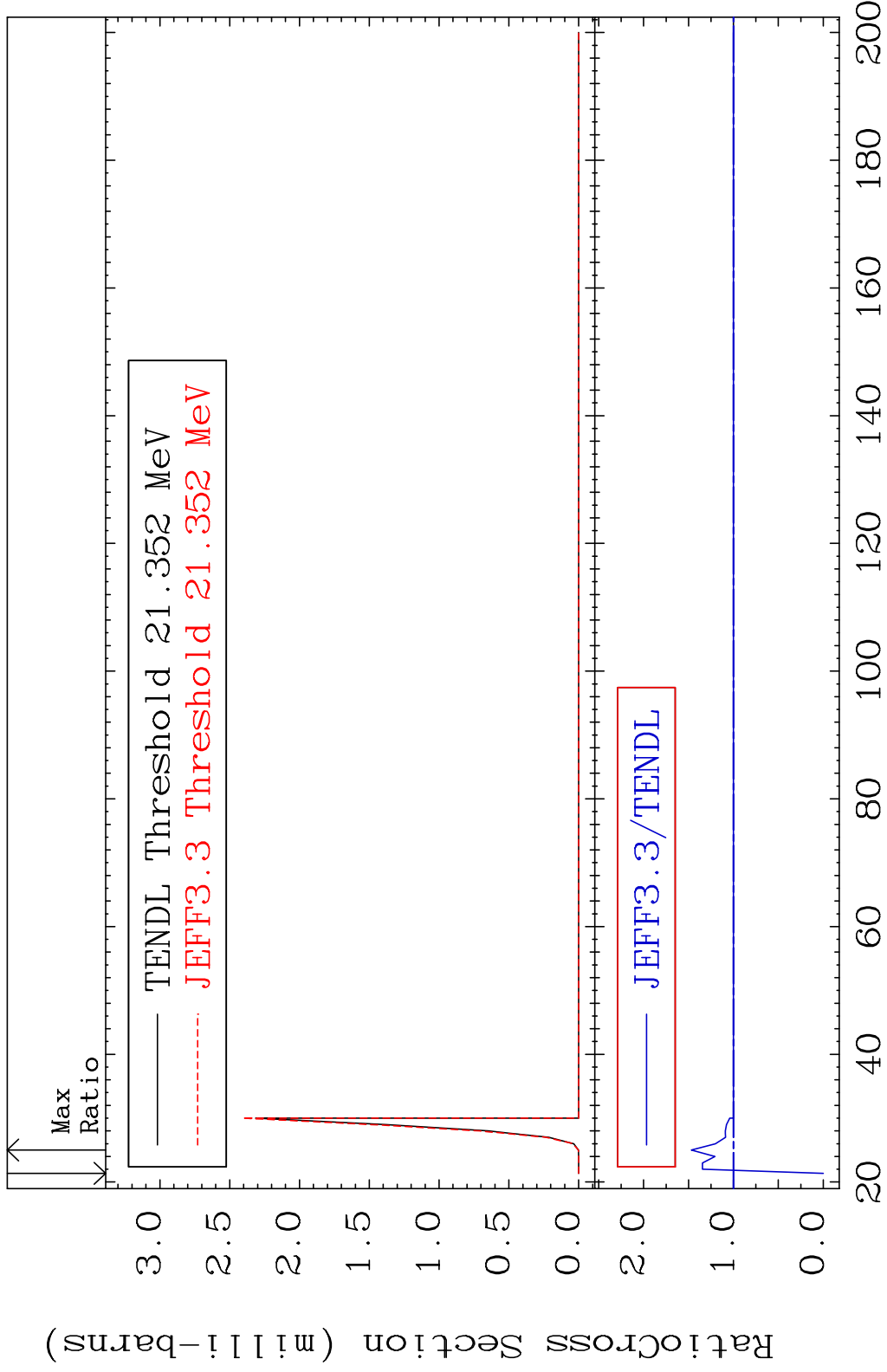
18-Ar-38

MAT 1831

(n,n') He-3

18-Ar-38

Cross Section -100.0 To 46.90 %

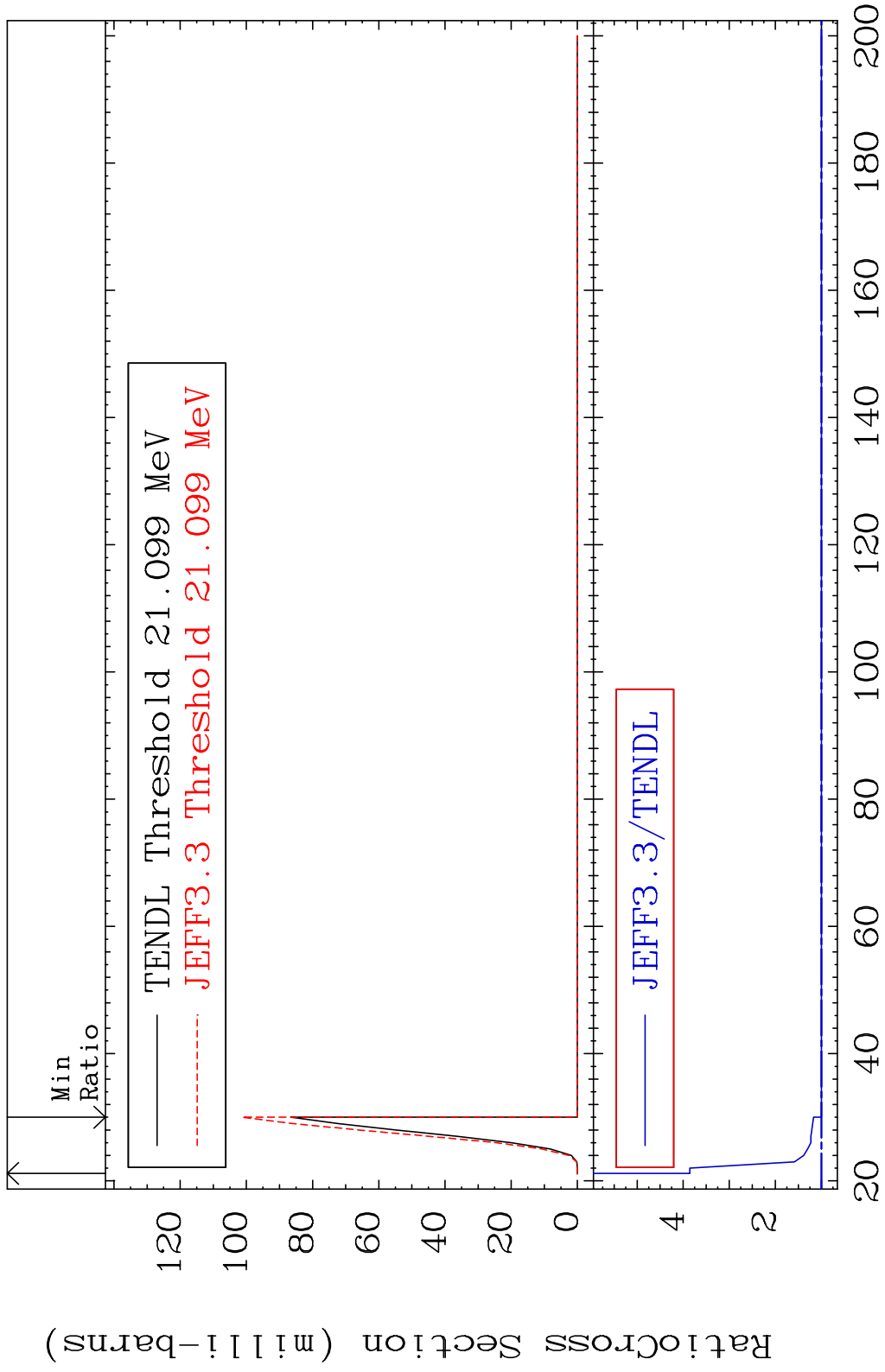


MAT 1831

(n,2n) p

18-Ar-38

Cross Section 0.000 To 285.7 %



14

Incident Energy (MeV)

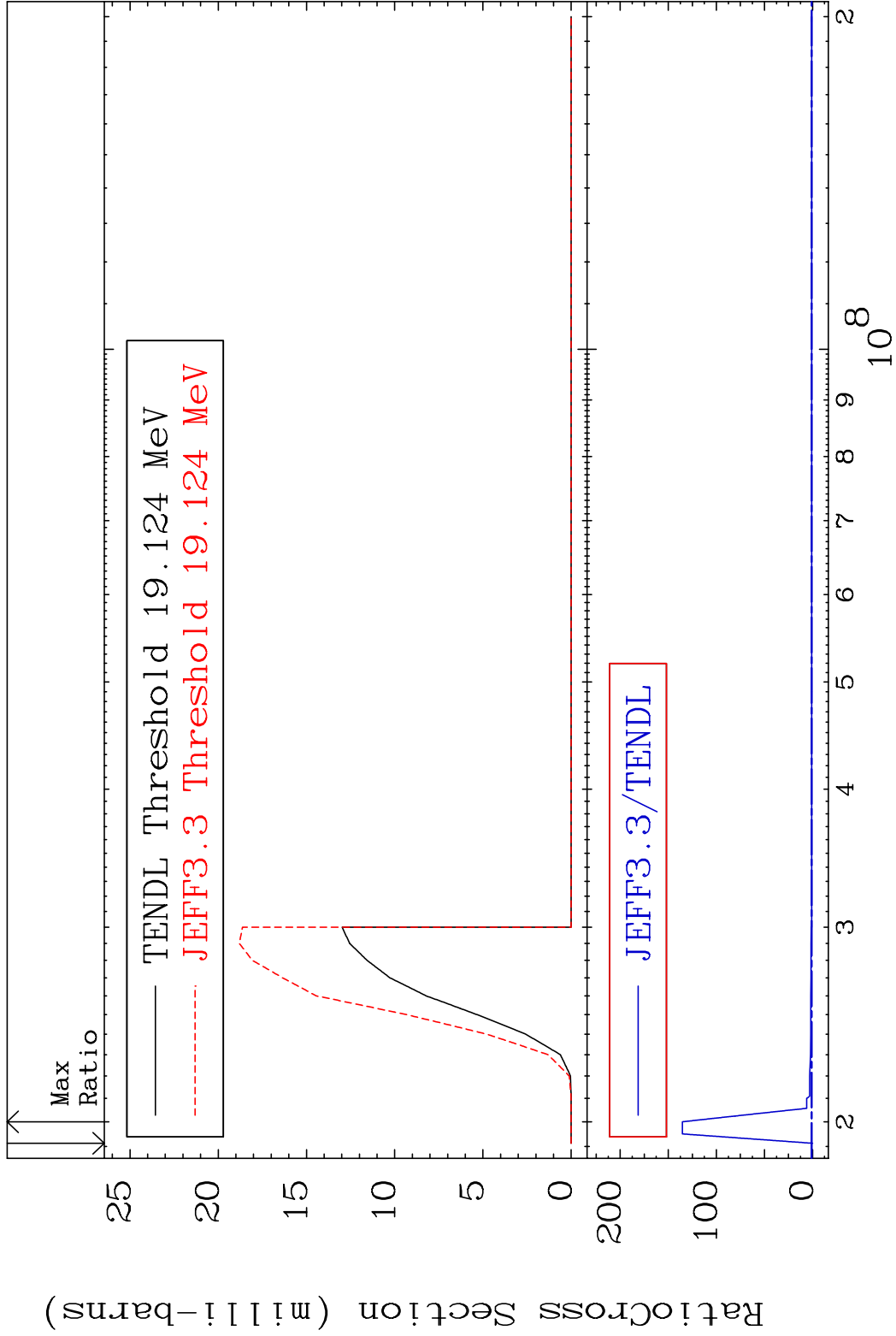
18-Ar-38

MAT 1831

(n,2n) p

18-Ar-38

Cross Section -100.0 To 9999. %



15

Incident Energy (eV)

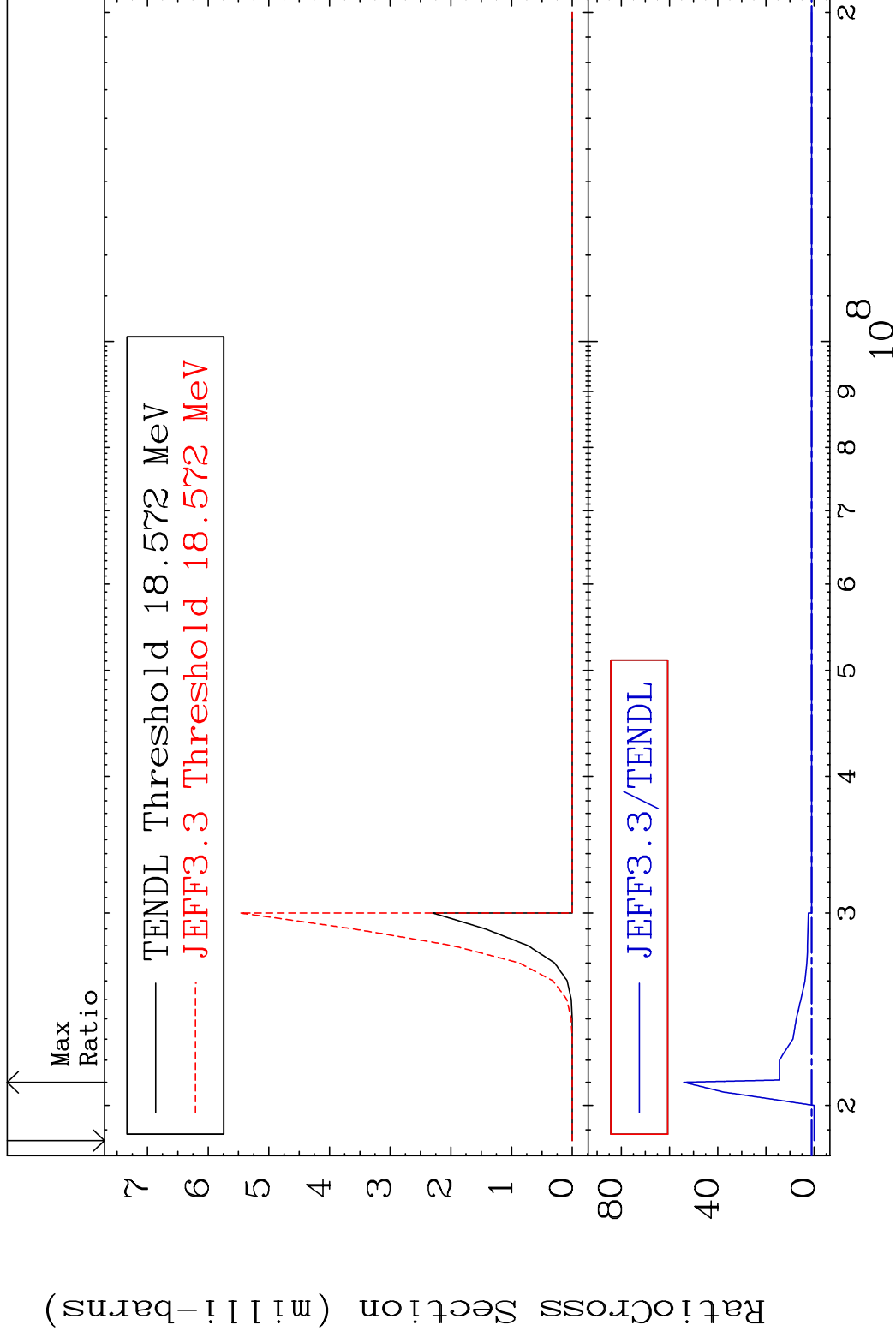
18-Ar-38

MAT 1831

(n, n') p α

18-Ar-38

Cross Section -100.0 To 5312. %

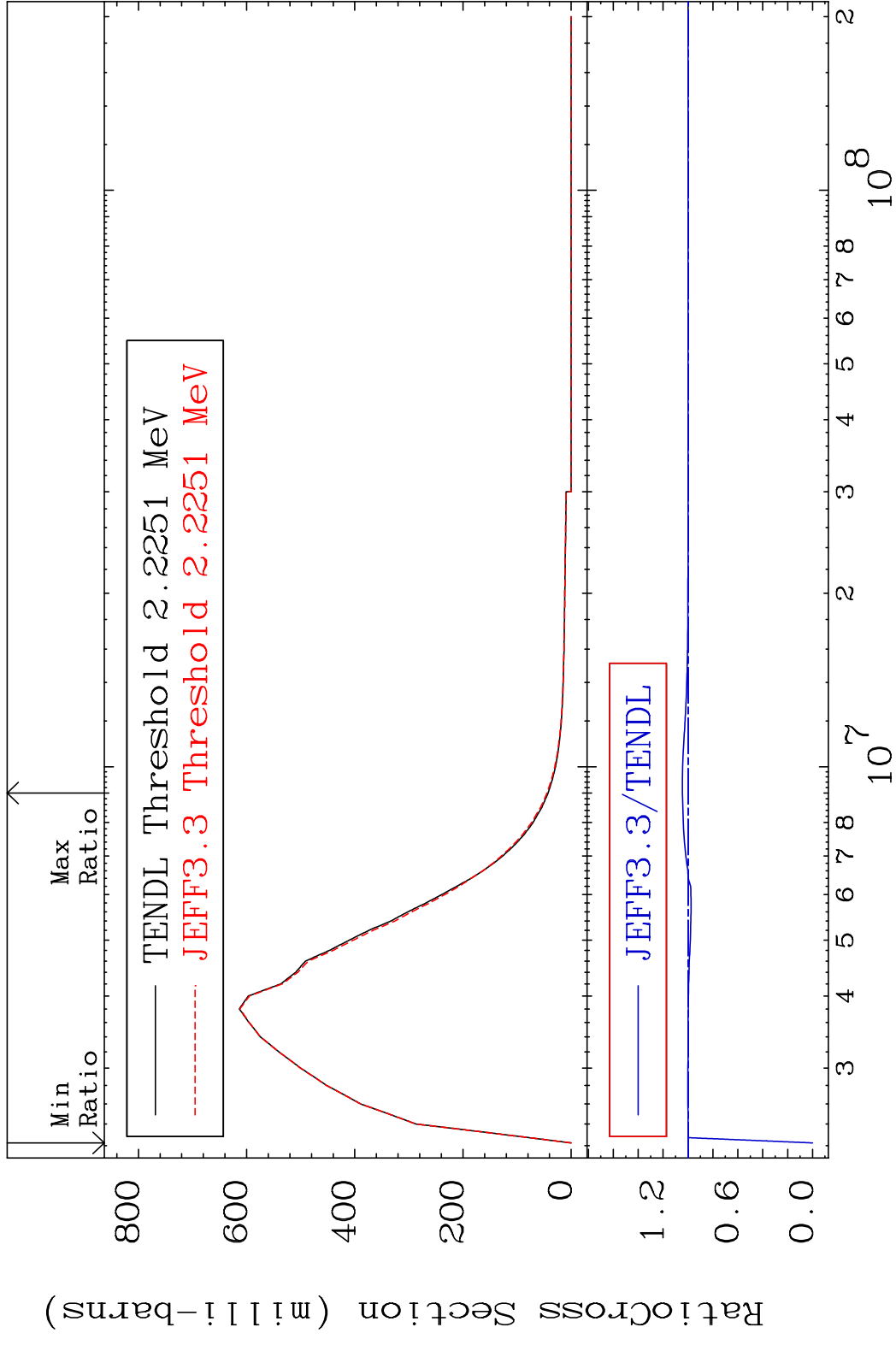


16

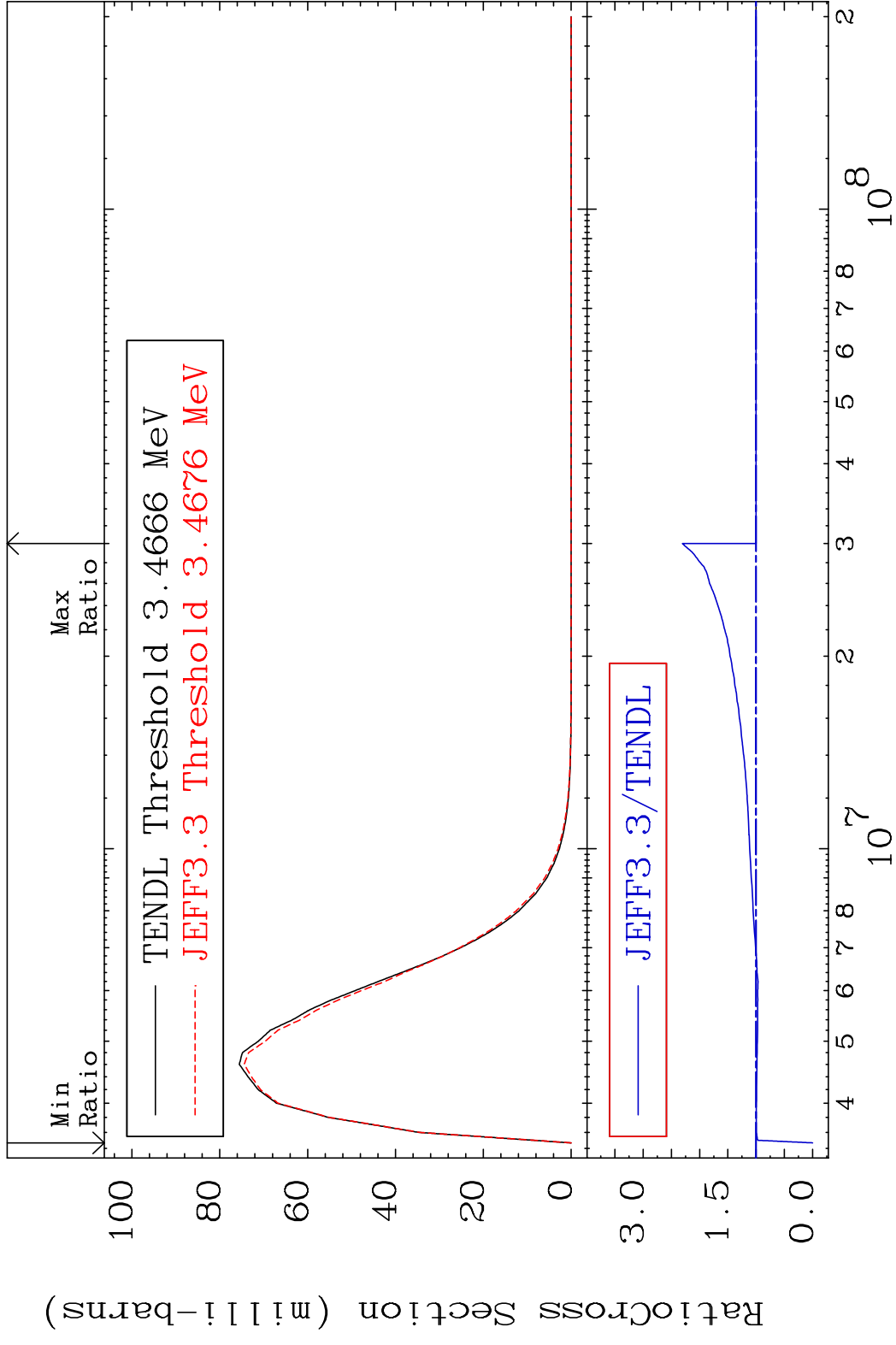
Incident Energy (eV)

18-Ar-38

MAT 1831 MT= 51 (n, n') Level 18-Ar-38
 Cross Section -100.0 To 4.535 %



MAT 1831 MT= 52 (n, n') Level 18-Ar-38
 Cross Section -100.0 To 130.6 %

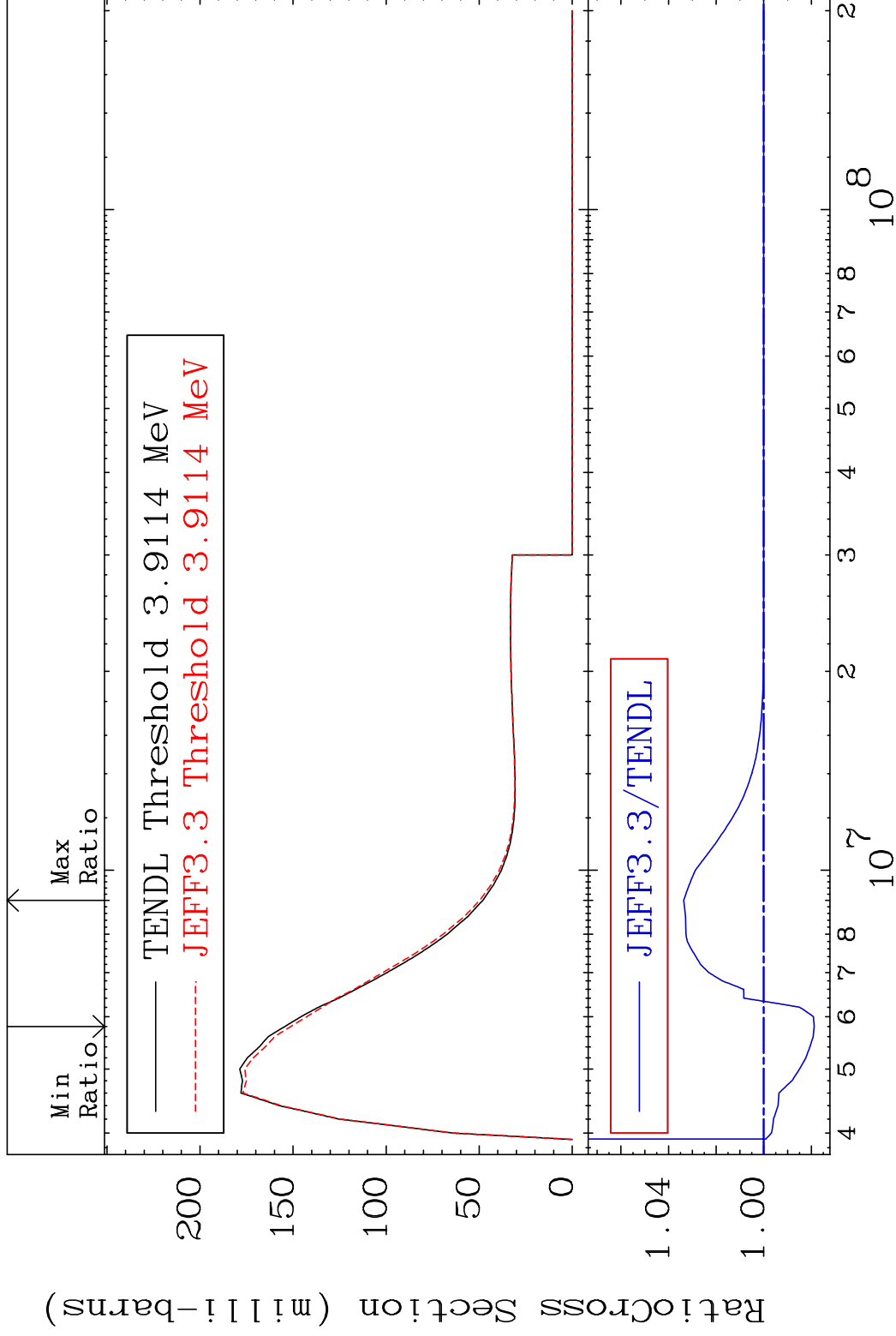


MAT 1831

MT= 53 (n, n') Level

18-Ar-38

Cross Section -2.115 To 3.366 %



19

Incident Energy (eV)

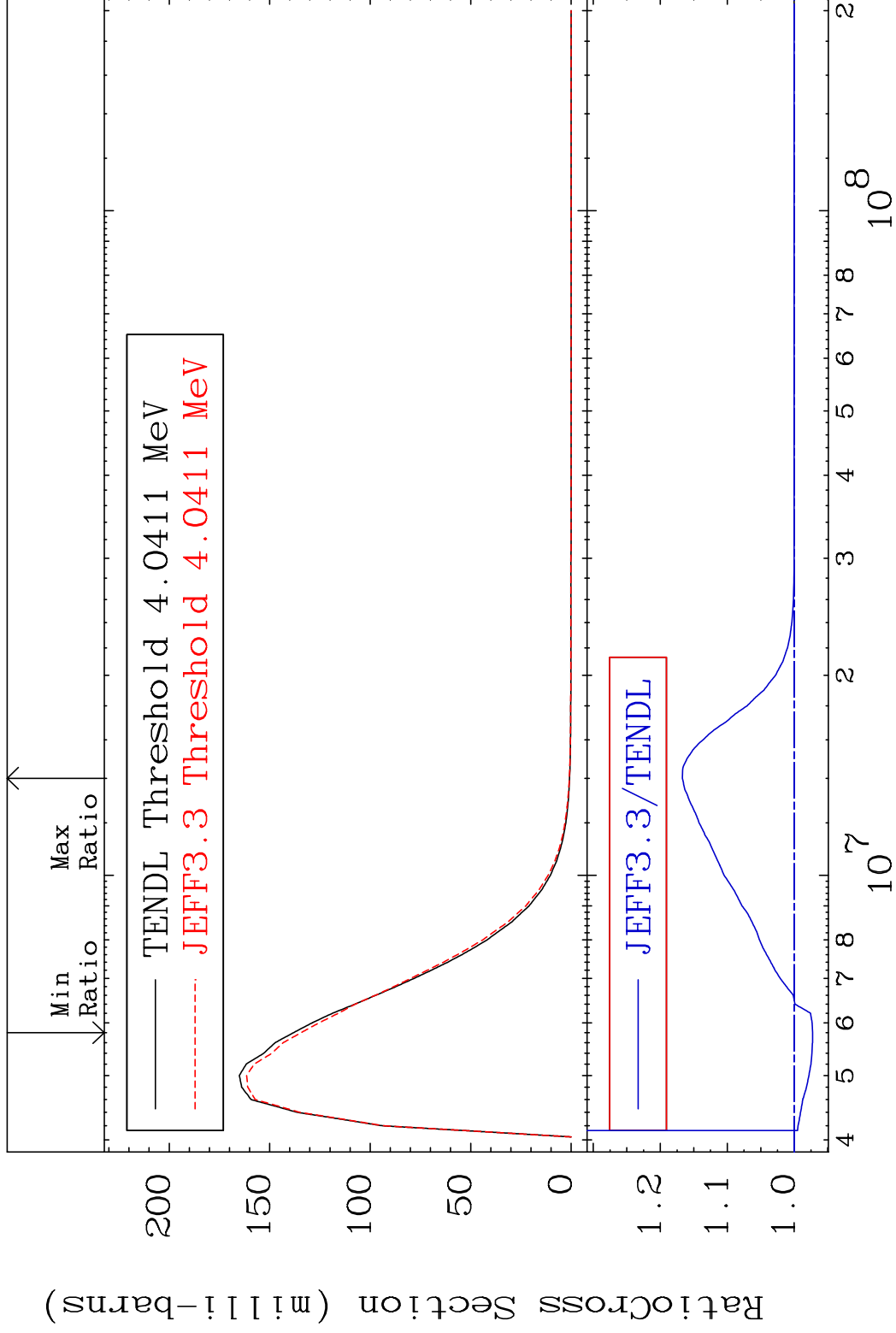
18-Ar-38

MAT 1831

MT= 54 (n,n') Level

18-Ar-38

Cross Section -2.736 To 16.71 %

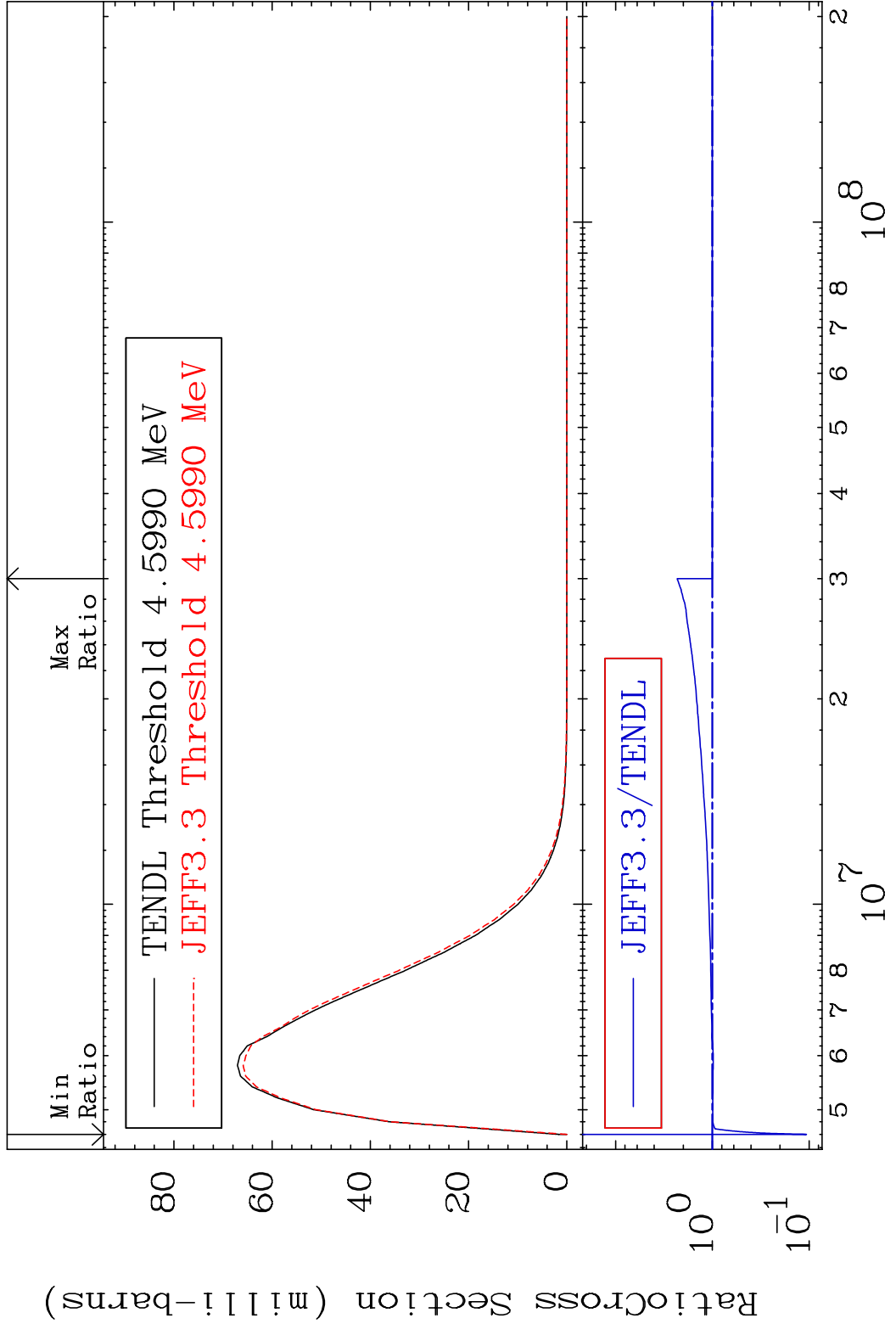


20

Incident Energy (eV)

18-Ar-38

MAT 1831 MT= 55 (n, n') Level 18-Ar-38
 Cross Section -89.32 To 131.0 %

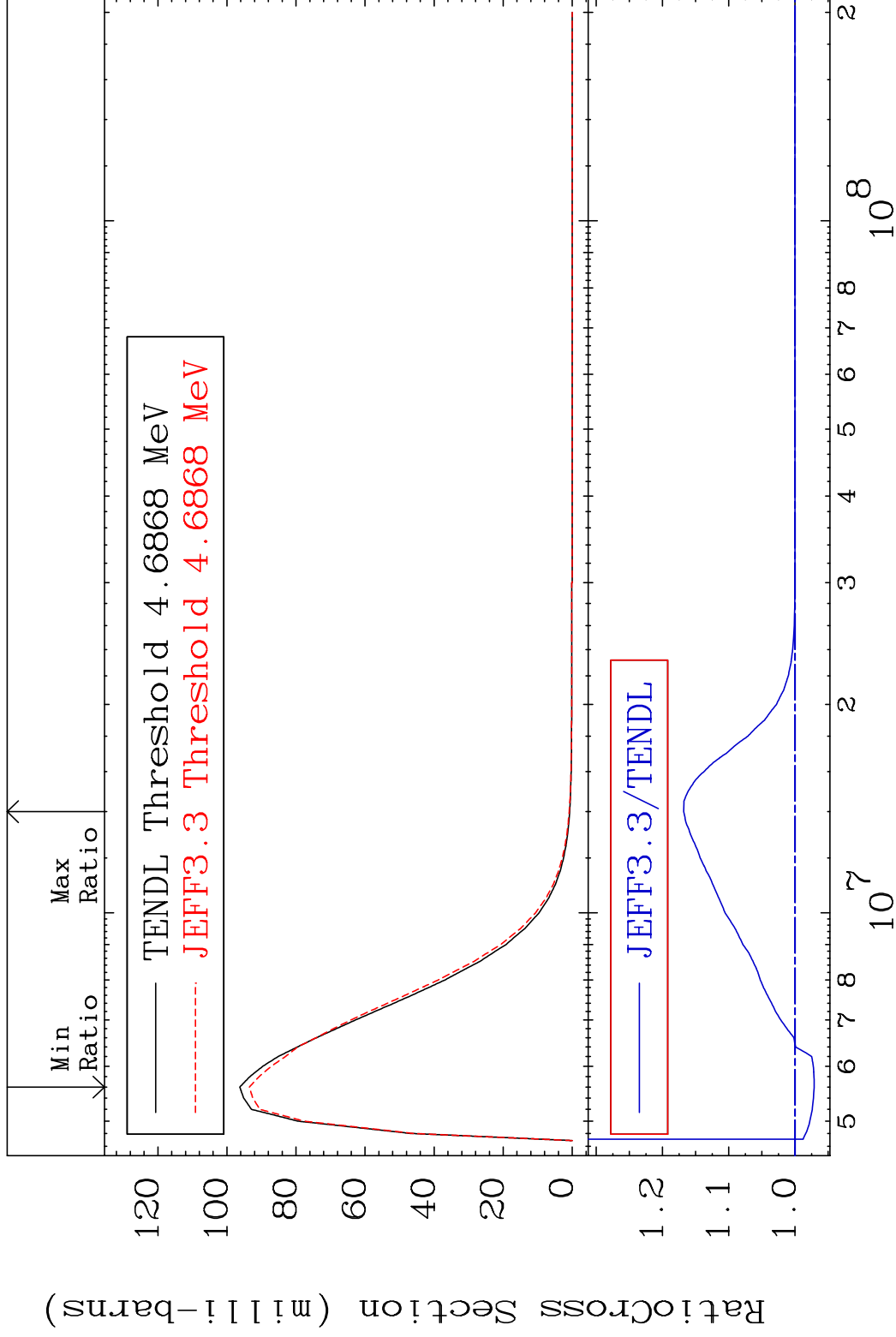


MAT 1831

MT= 56 (n,n') Level

18-Ar-38

Cross Section -2.873 To 16.81 %

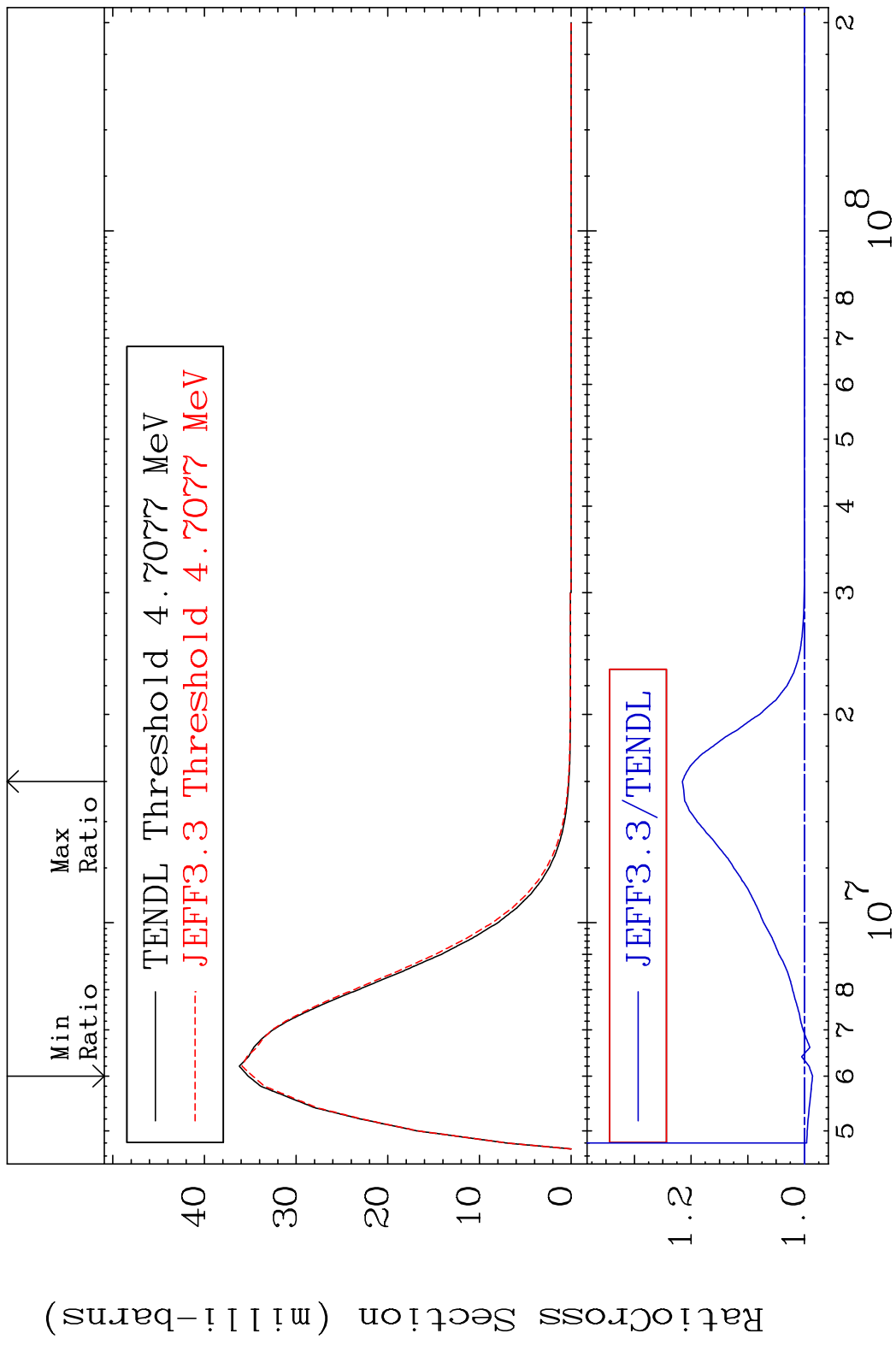


22

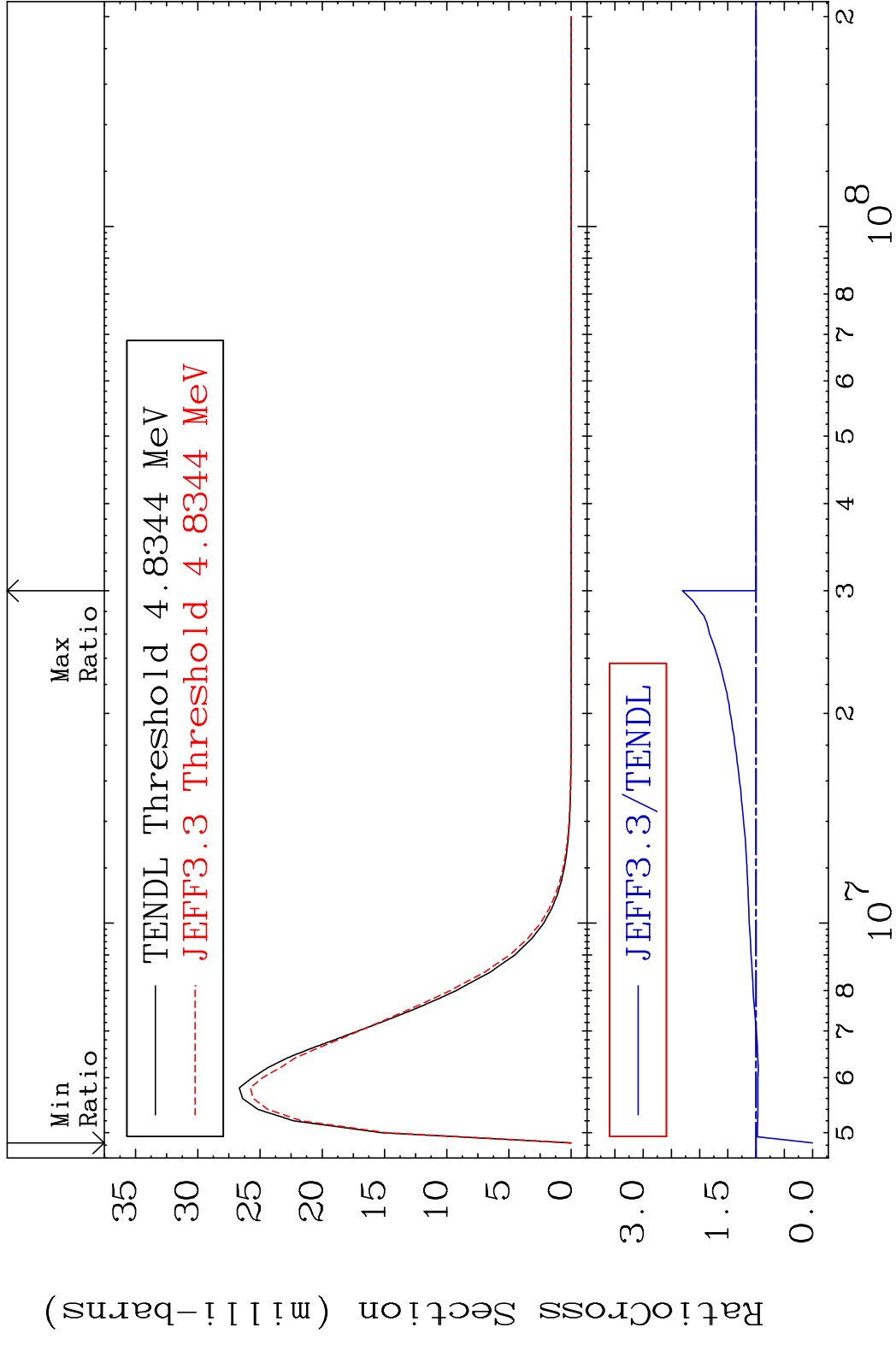
Incident Energy (eV)

18-Ar-38

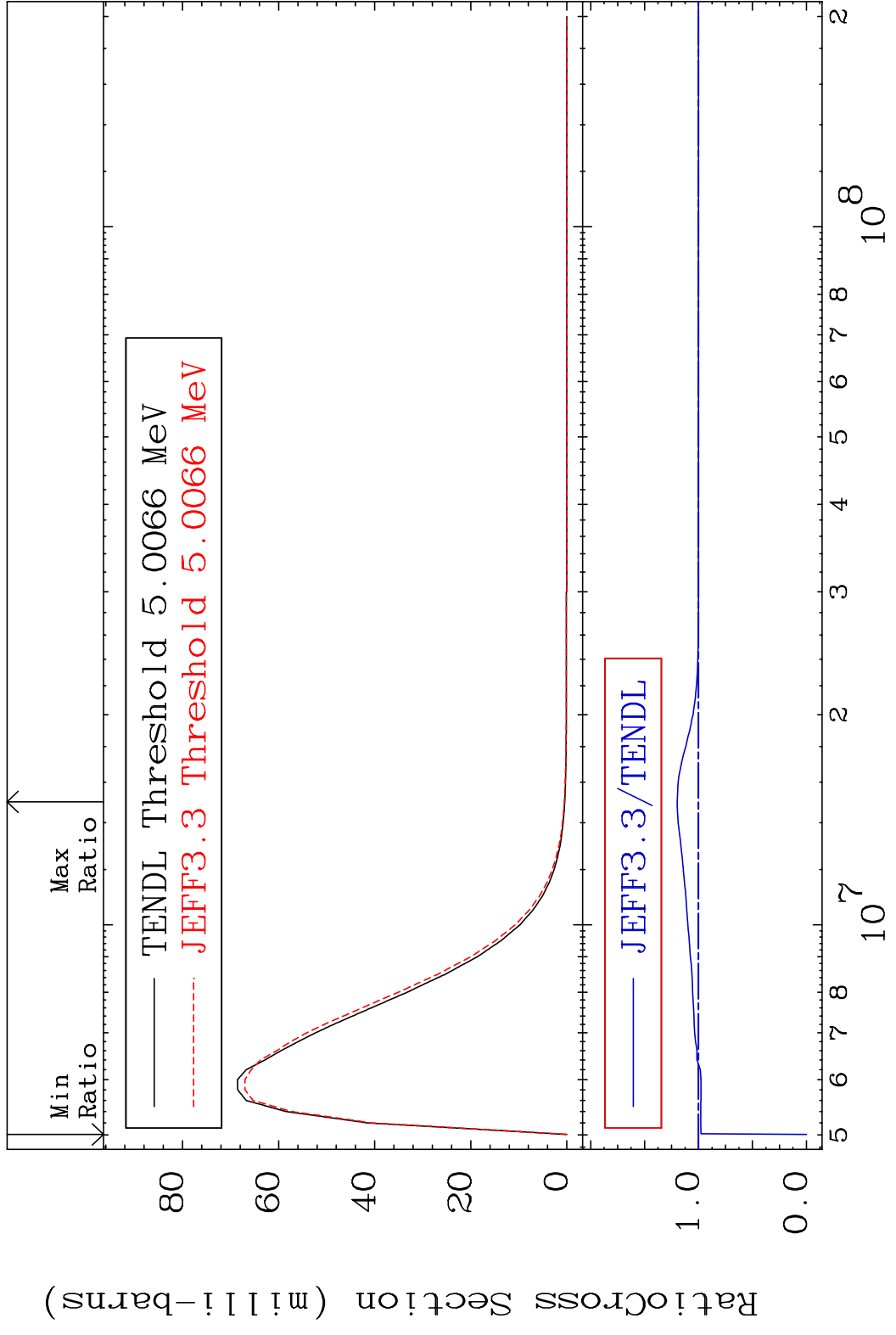
MAT 1831 MT= 57 (n,n') Level 18-Ar-38
 Cross Section -1.421 To 21.55 %



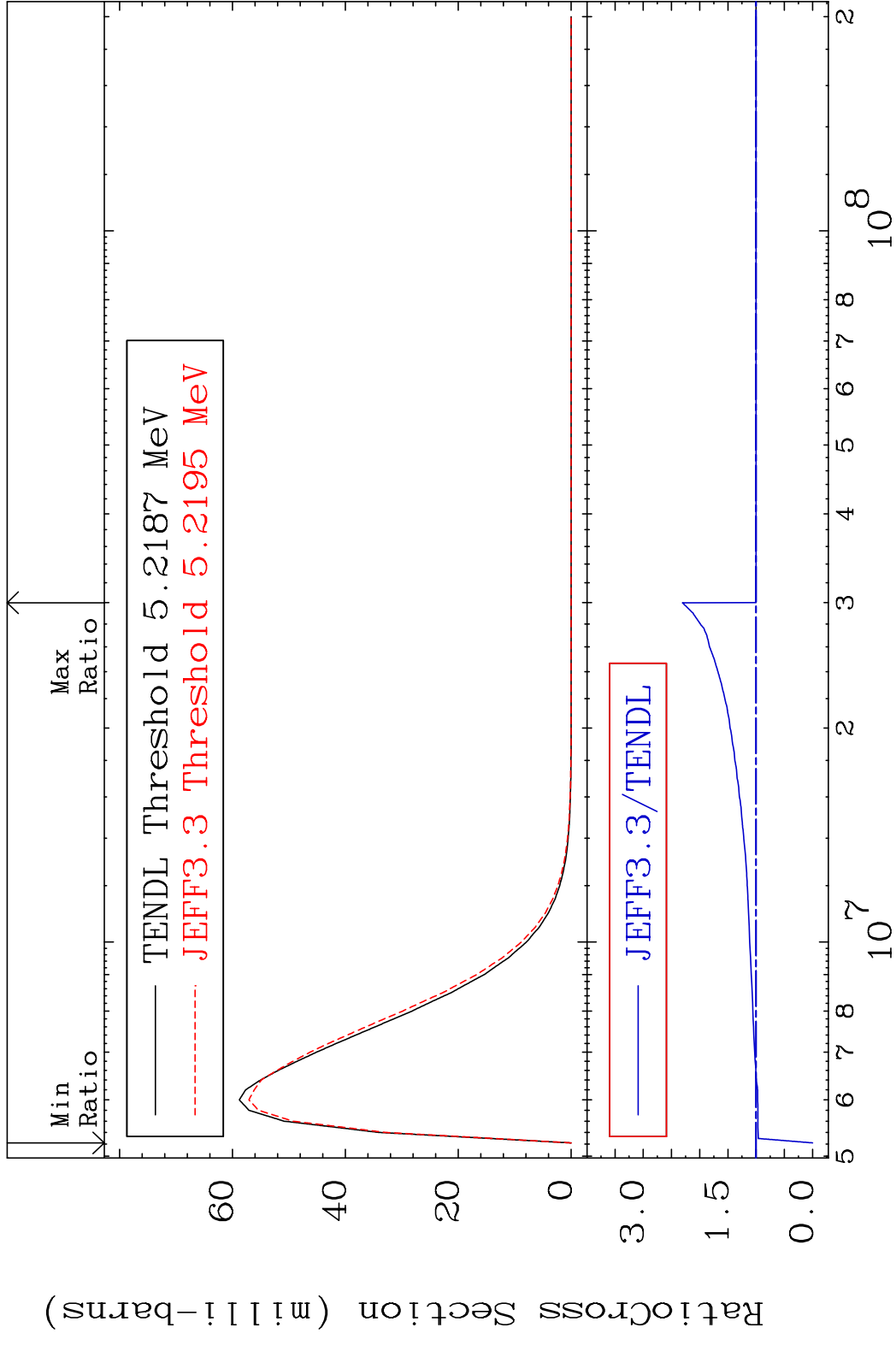
MAT 1831 MT= 58 (n, n') Level 18-Ar-38
 Cross Section -100.0 To 130.6 %



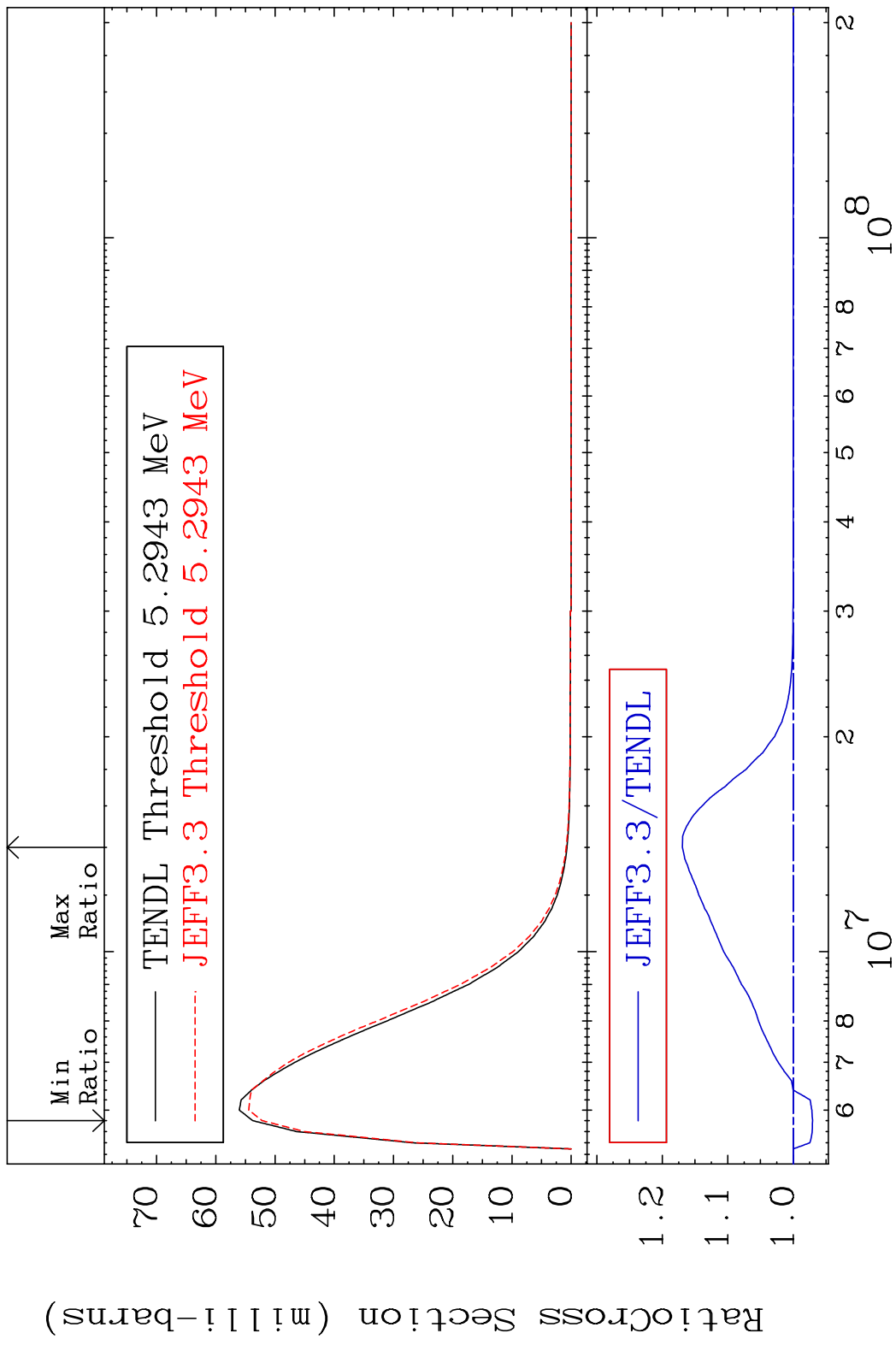
MAT 1831 MT= 59 (n,n') Level 18-Ar-38
 Cross Section -100.0 To 19.80 %



MAT 1831 MT= 60 (n, n') Level 18-Ar-38
 Cross Section -100.0 To 130.7 %



MAT 1831 MT= 61 (n, n') Level 18-Ar-38
 Cross Section -2.952 To 16.93 %

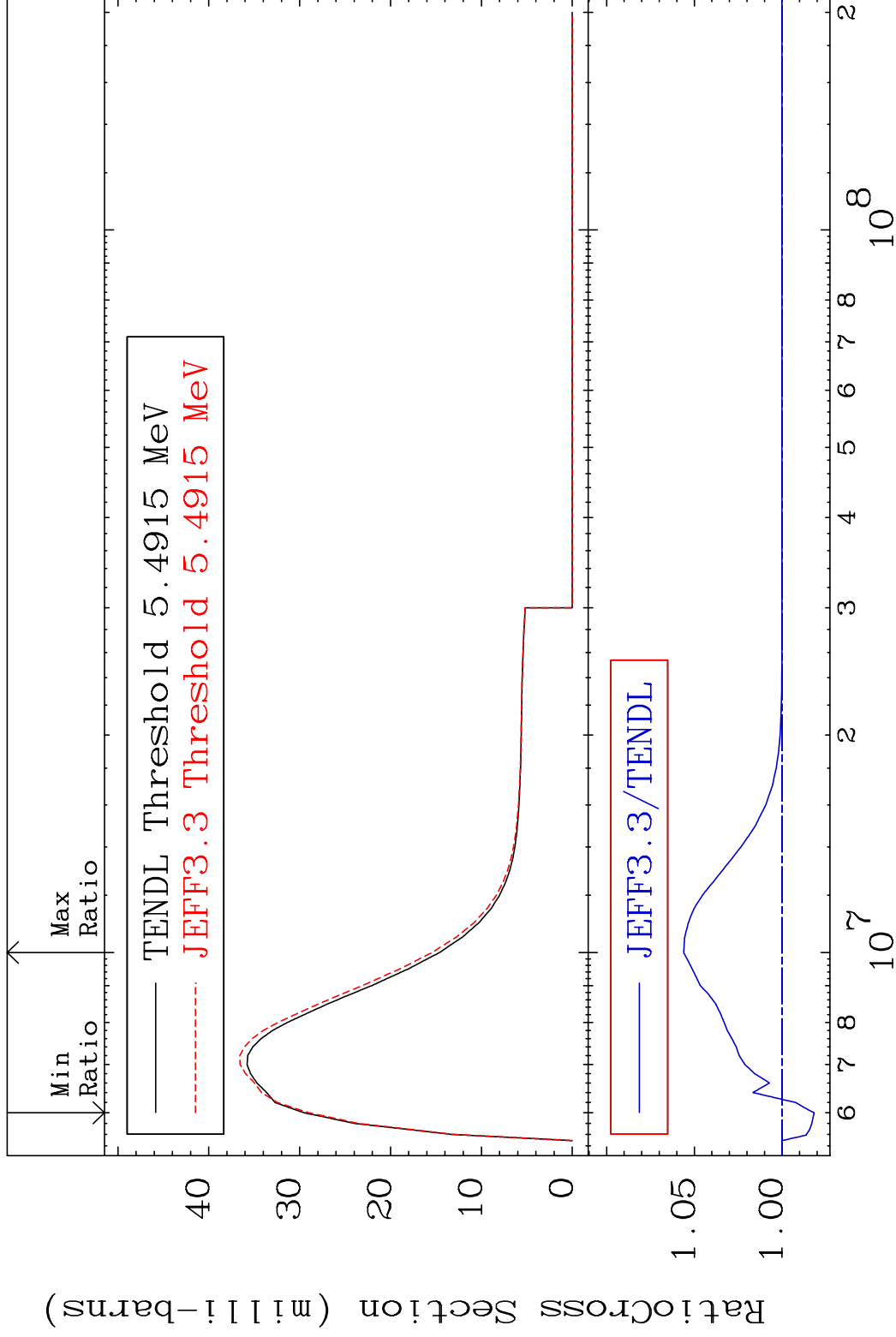


MAT 1831

MT= 62 (n, n') Level

18-Ar-38

Cross Section -1.829 To 5.609 %

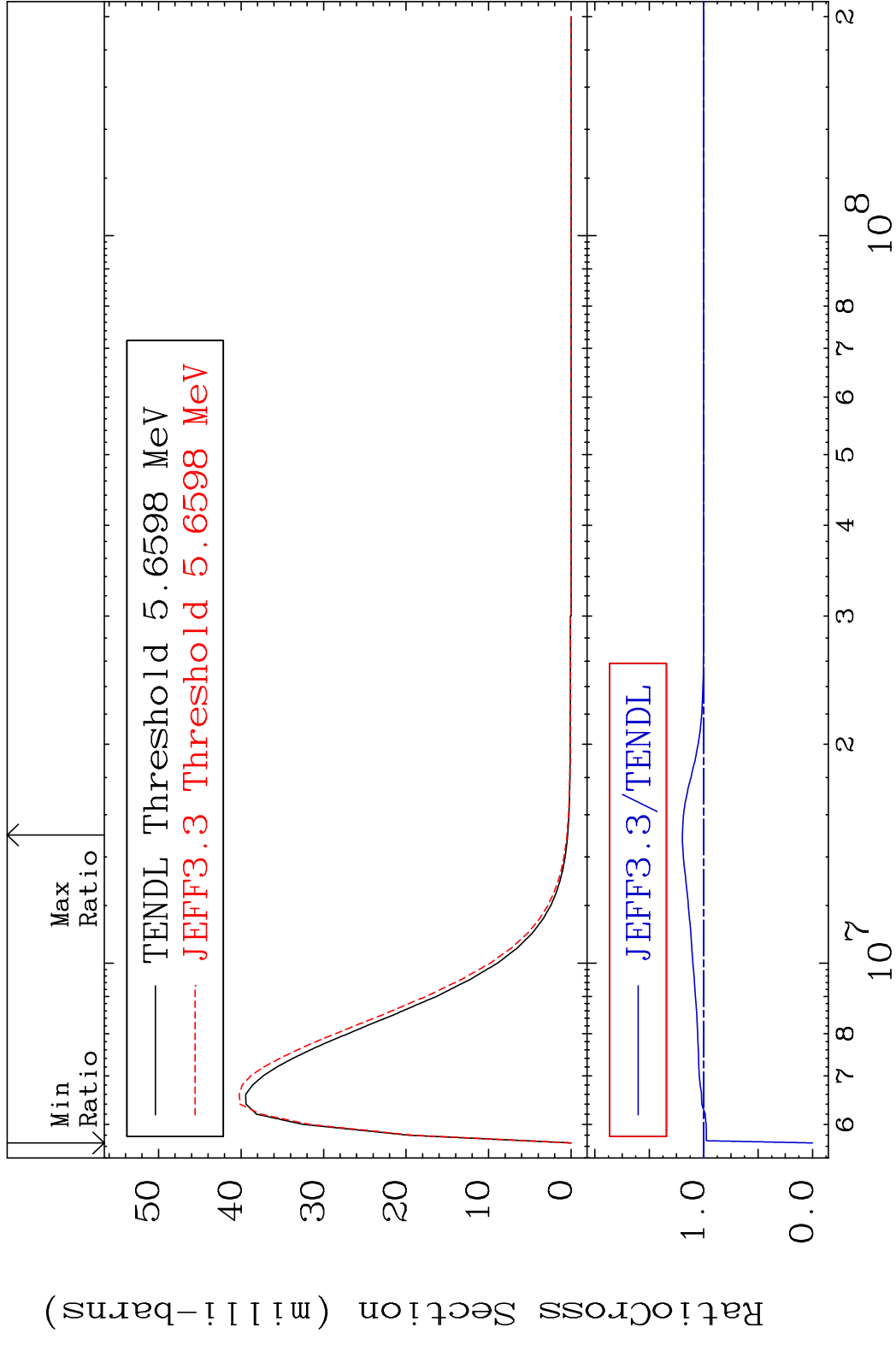


28

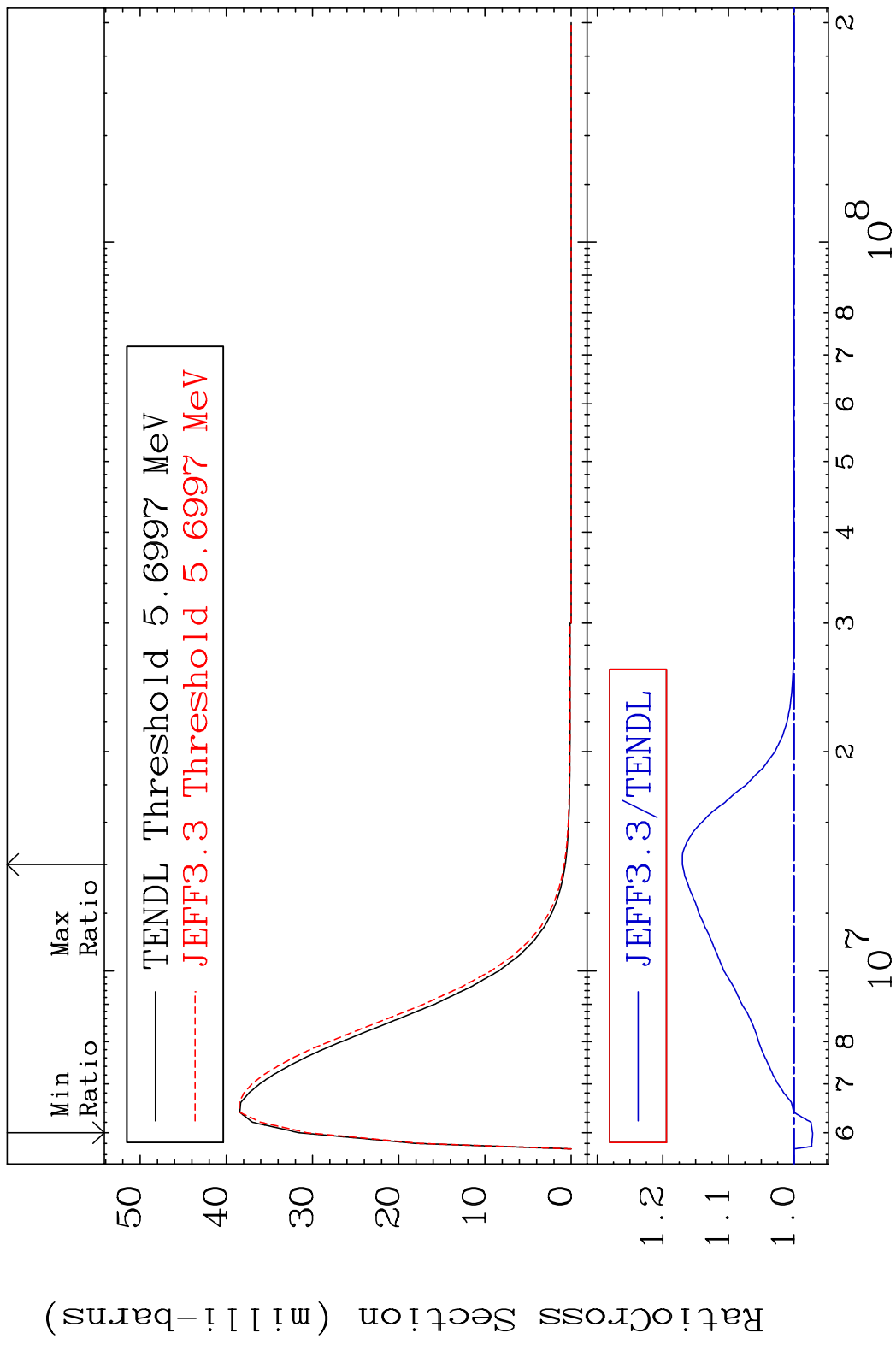
Incident Energy (eV)

18-Ar-38

MAT 1831 MT= 63 (n, n') Level 18-Ar-38
 Cross Section -100.0 To 19.62 %



MAT 1831 MT= 64 (n, n') Level 18-Ar-38
 Cross Section -2.827 To 17.02 %



30

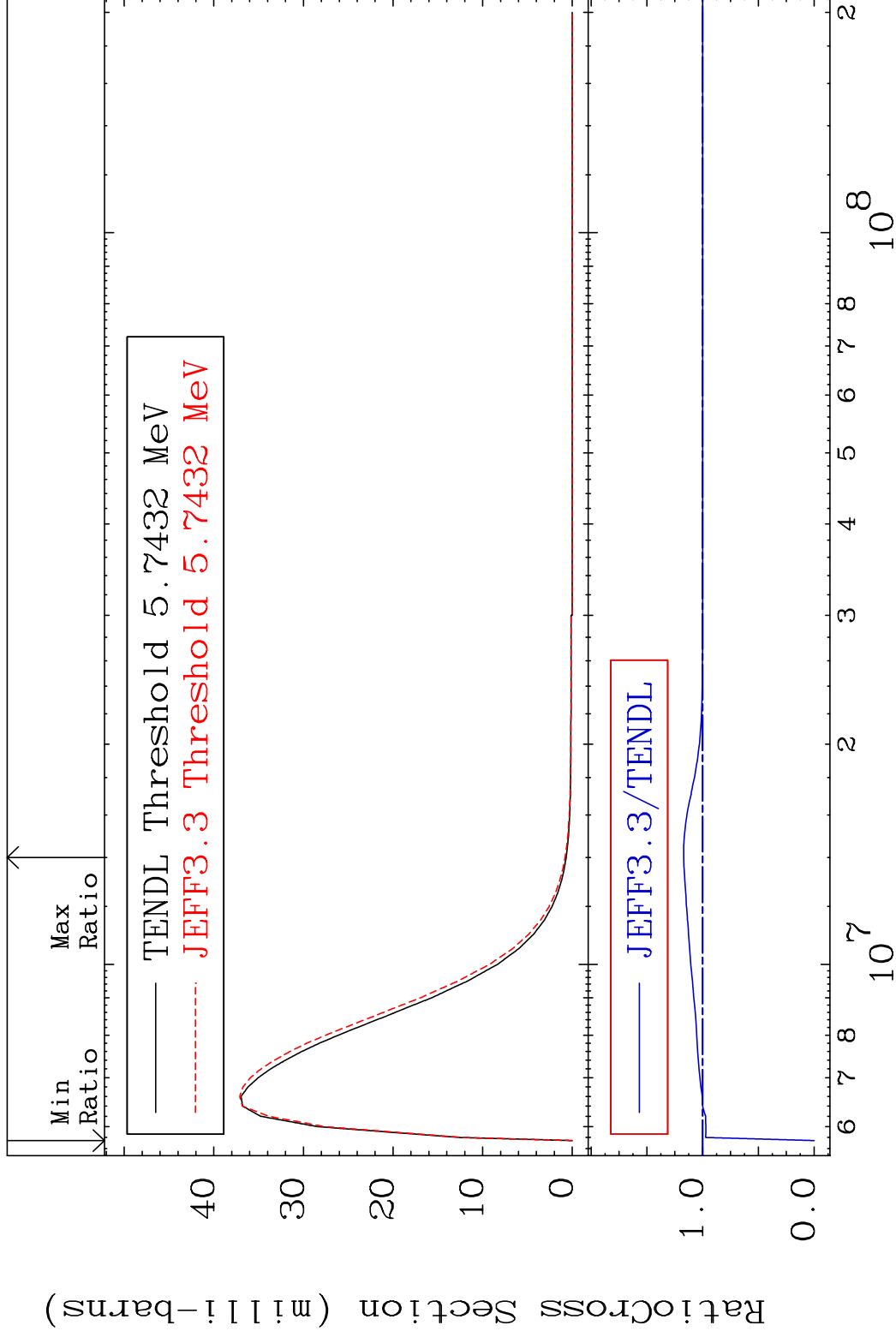
Incident Energy (eV) 18-Ar-38

MAT 1831

MT= 65 (n,n') Level

18-Ar-38

Cross Section -100.0 To 17.03 %

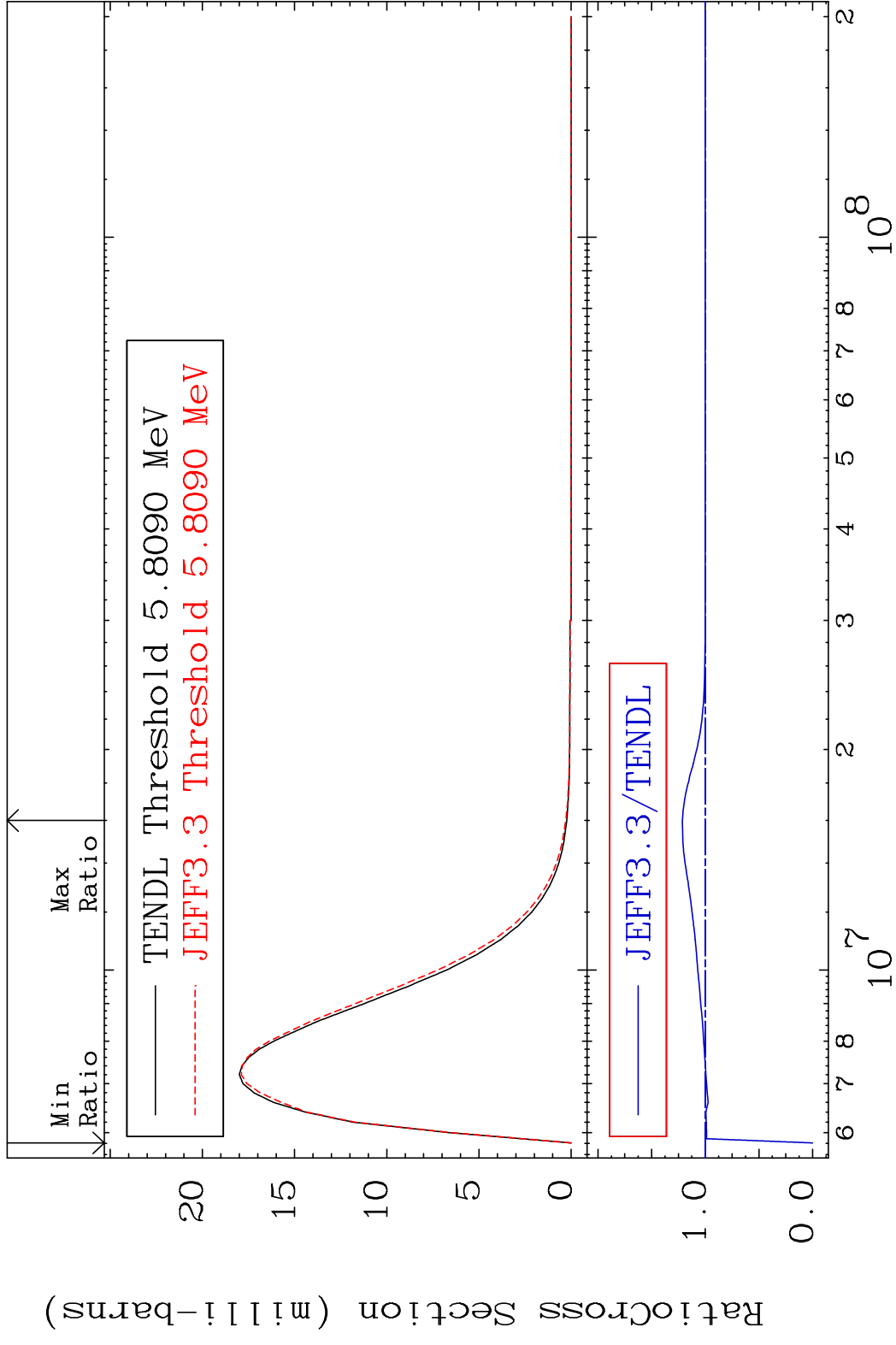


31

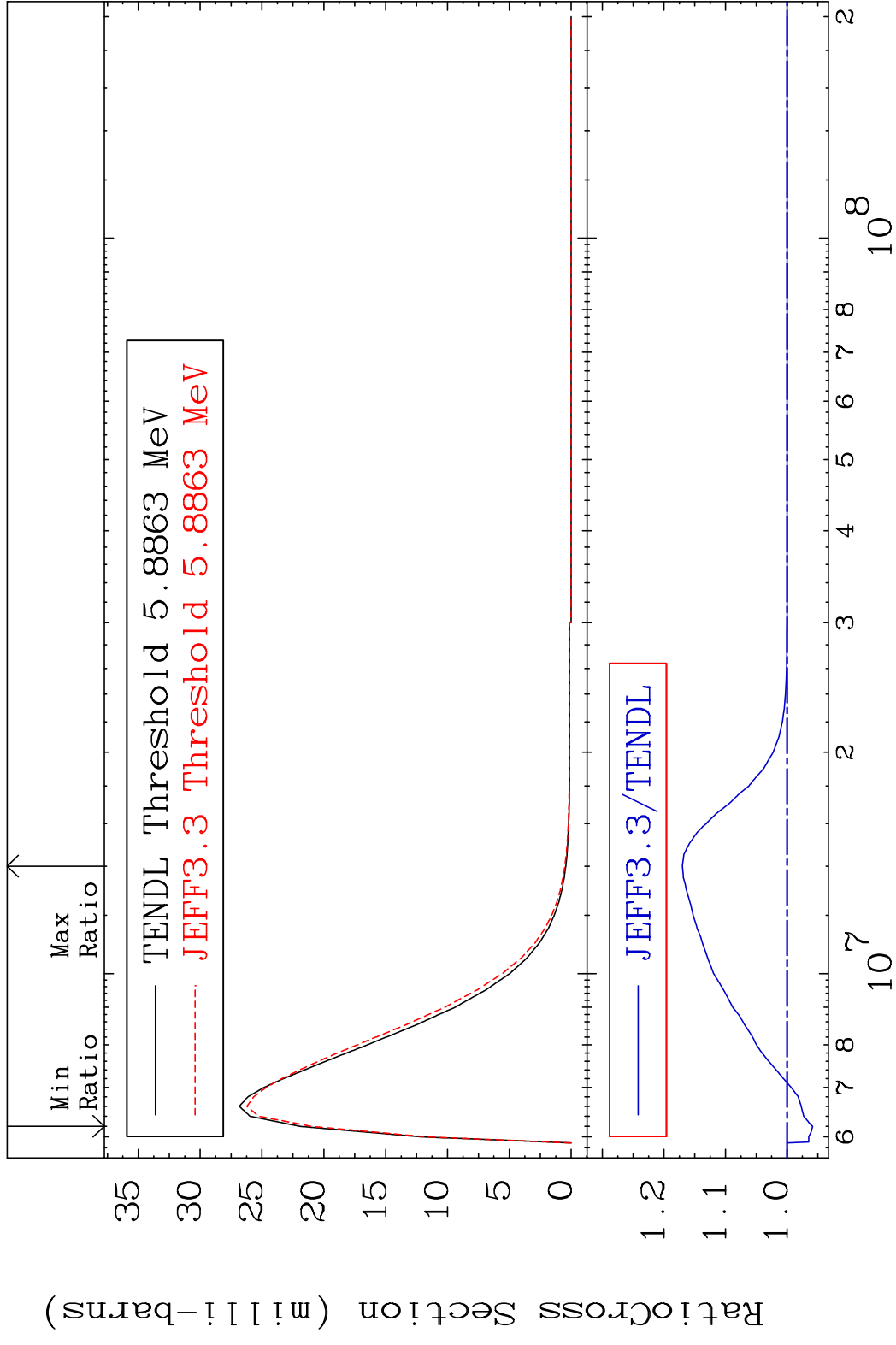
Incident Energy (eV)

18-Ar-38

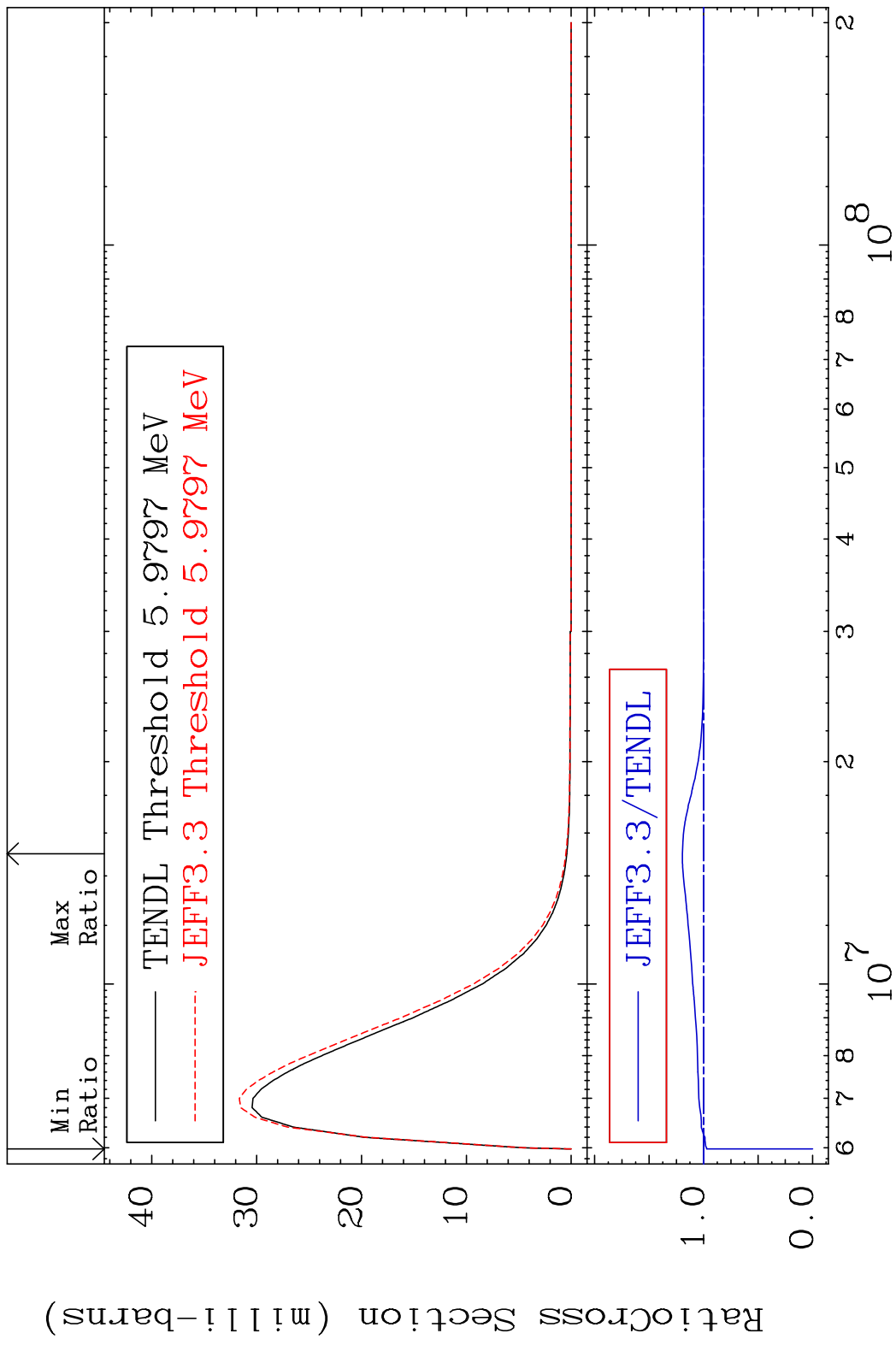
MAT 1831 MT= 66 (n,n') Level 18-Ar-38
 Cross Section -100.0 To 21.35 %



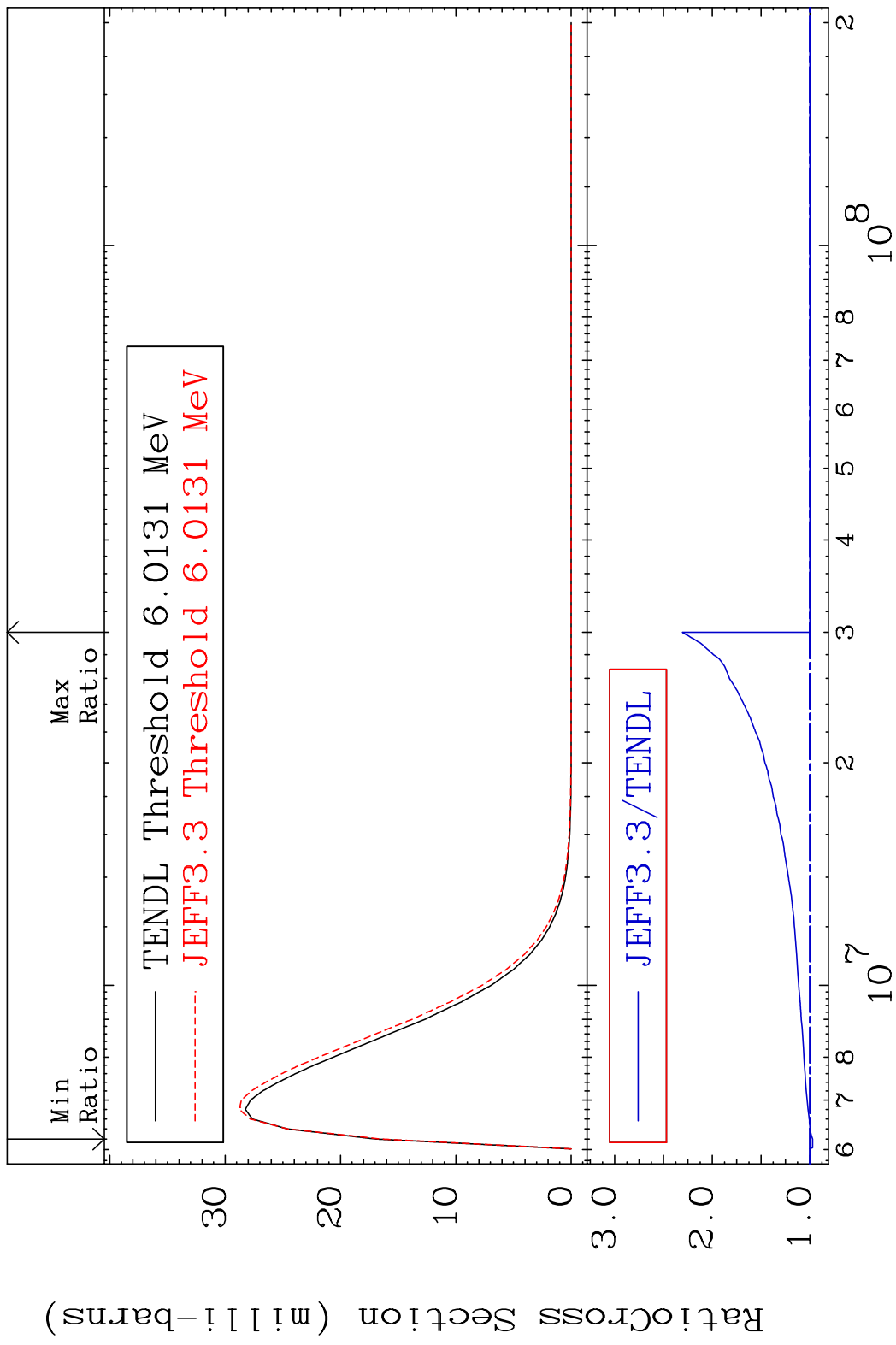
MAT 1831 MT= 67 (n,n') Level 18-Ar-38
 Cross Section -4.142 To 17.01 %



MAT 1831 MT= 68 (n, n') Level 18-Ar-38
 Cross Section -100.0 To 19.53 %

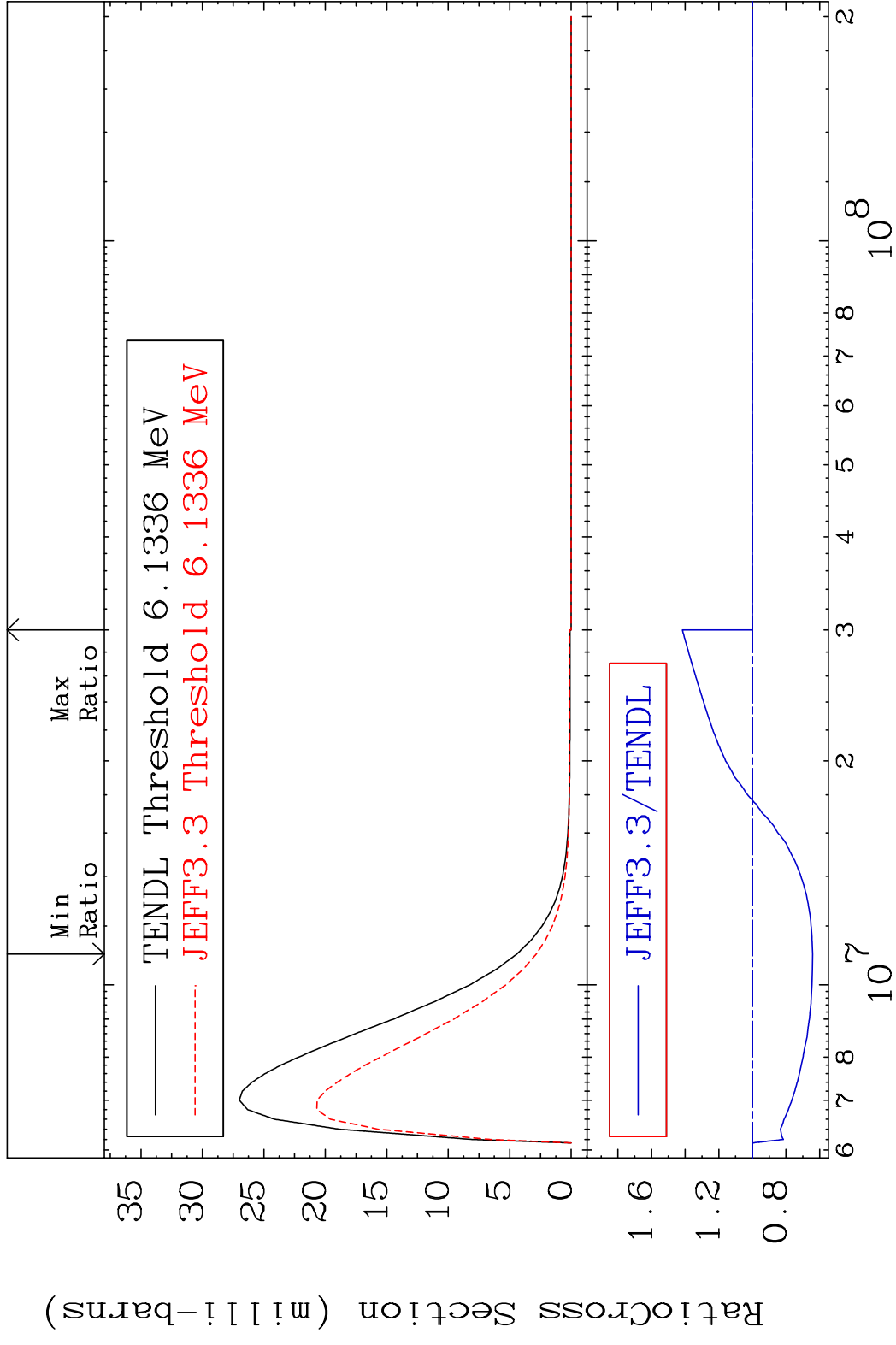


MAT 1831 MT= 69 (n, n') Level 18-Ar-38
 Cross Section -2.774 To 130.7 %

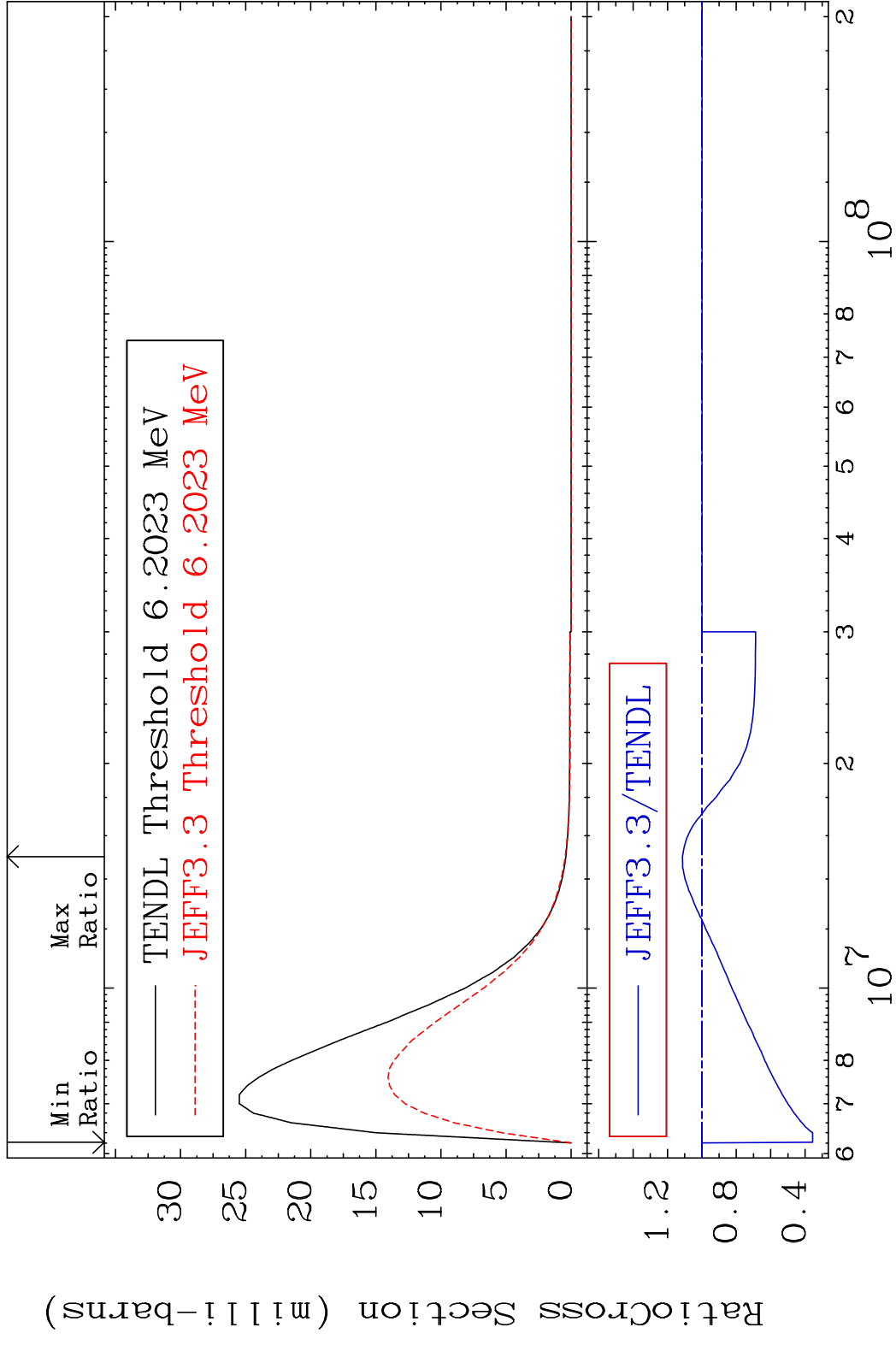


35 18-Ar-38

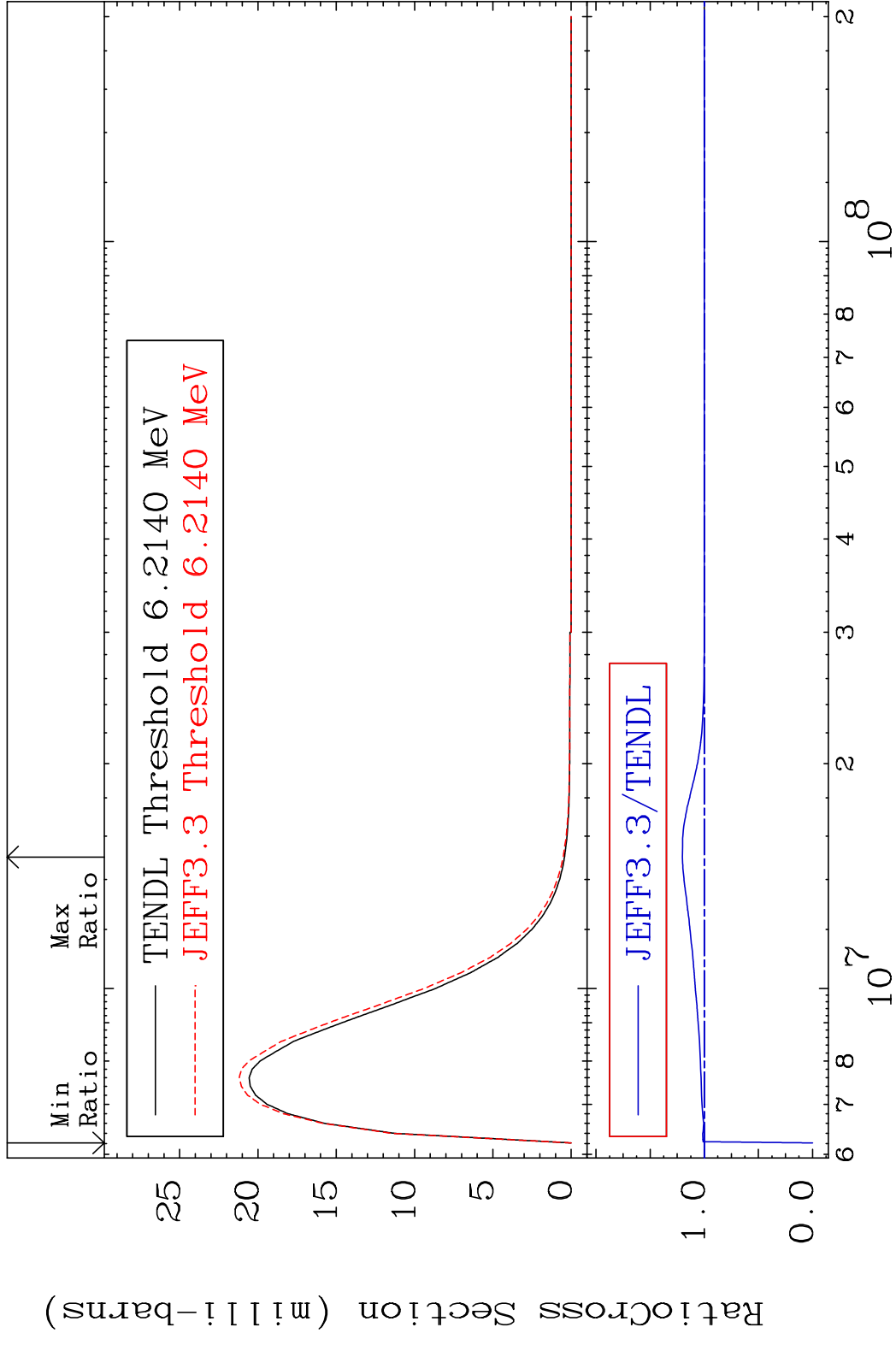
MAT 1831 MT= 70 (n,n') Level 18-Ar-38
 Cross Section -35.81 To 41.67 %



MAT 1831 MT= 71 (n, n') Level 18-Ar-38
 Cross Section -64.35 To 11.36 %



MAT 1831 MT= 72 (n, n') Level 18-Ar-38
 Cross Section -100.0 To 20.28 %



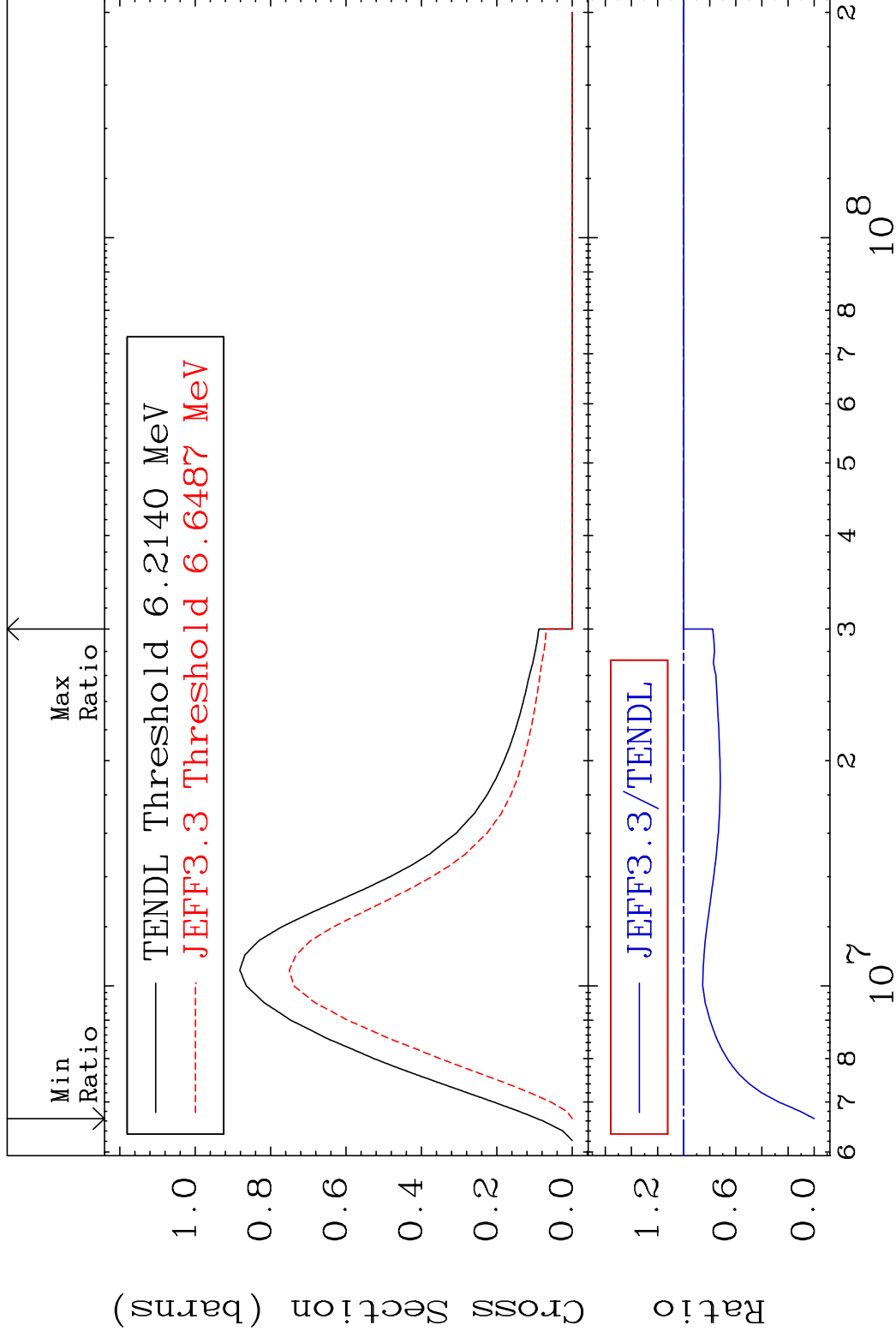
38 18-Ar-38

MAT 1831

(n, n') Continuum

18-Ar-38

Cross Section -100.0 To 0.000 %



39

Incident Energy (eV)

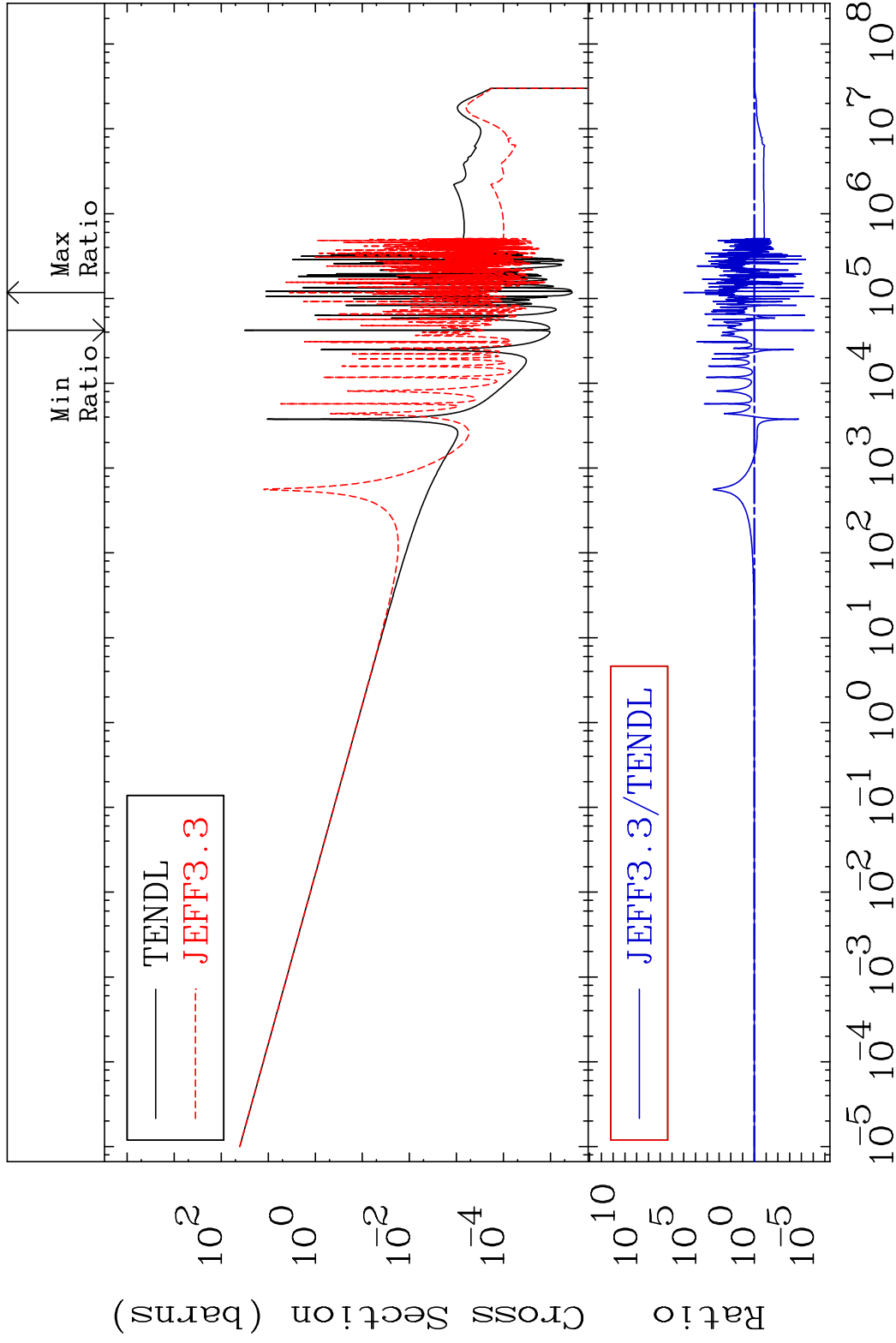
18-Ar-38

MAT 1831

(n, γ)

18-Ar-38

Cross Section -100.0 To 9999. %

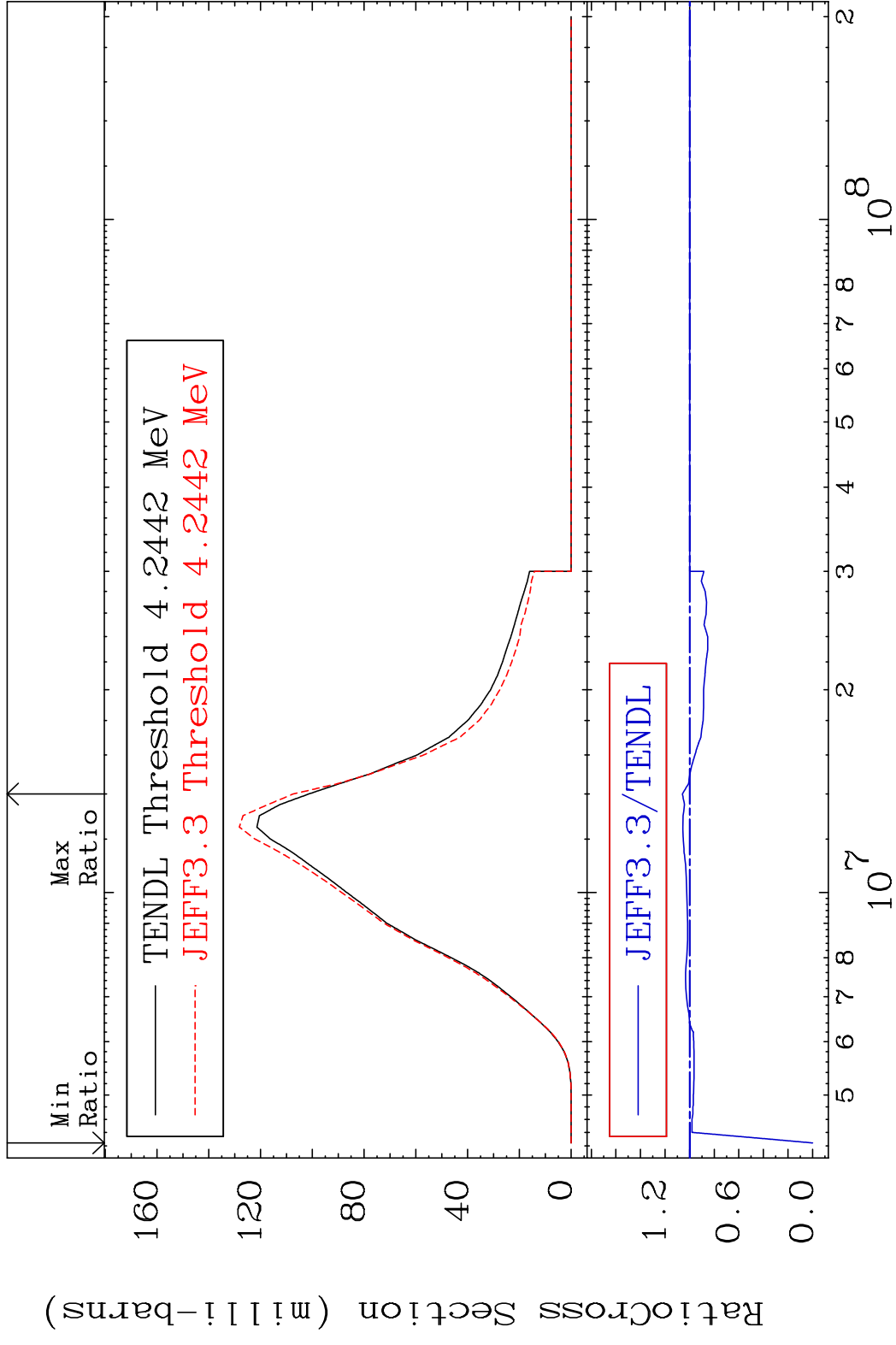


40

Incident Energy (eV)

18-Ar-38

MAT 1831 (n,p) 18-Ar-38
 Cross Section -100.0 To 5.938 %

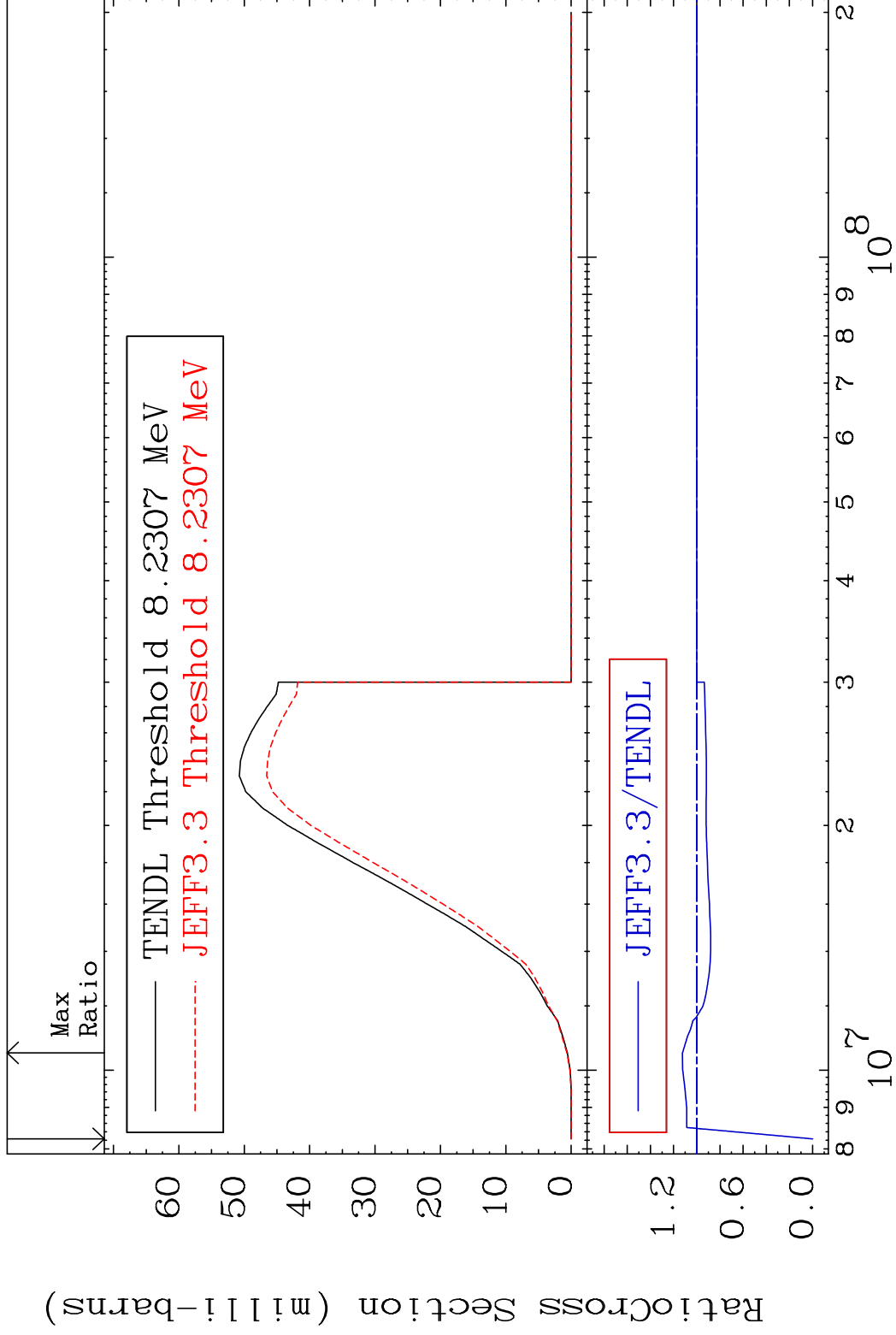


MAT 1831

(n, d)

18-Ar-38

Cross Section -100.0 To 12.43 %



42

Incident Energy (eV)

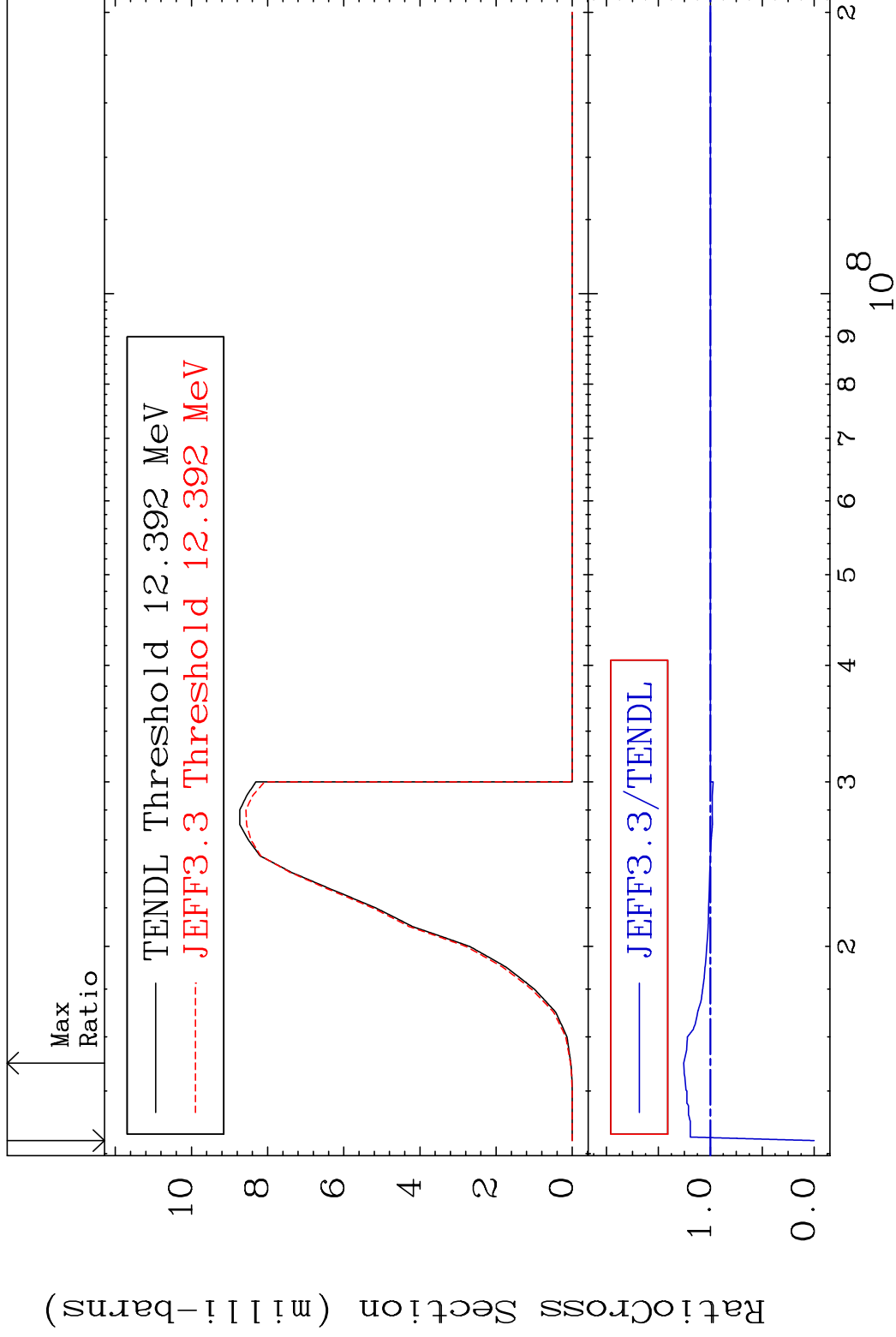
18-Ar-38

MAT 1831

(n, t)

18-Ar-38

Cross Section -100.0 To 25.70 %



43

Incident Energy (eV)

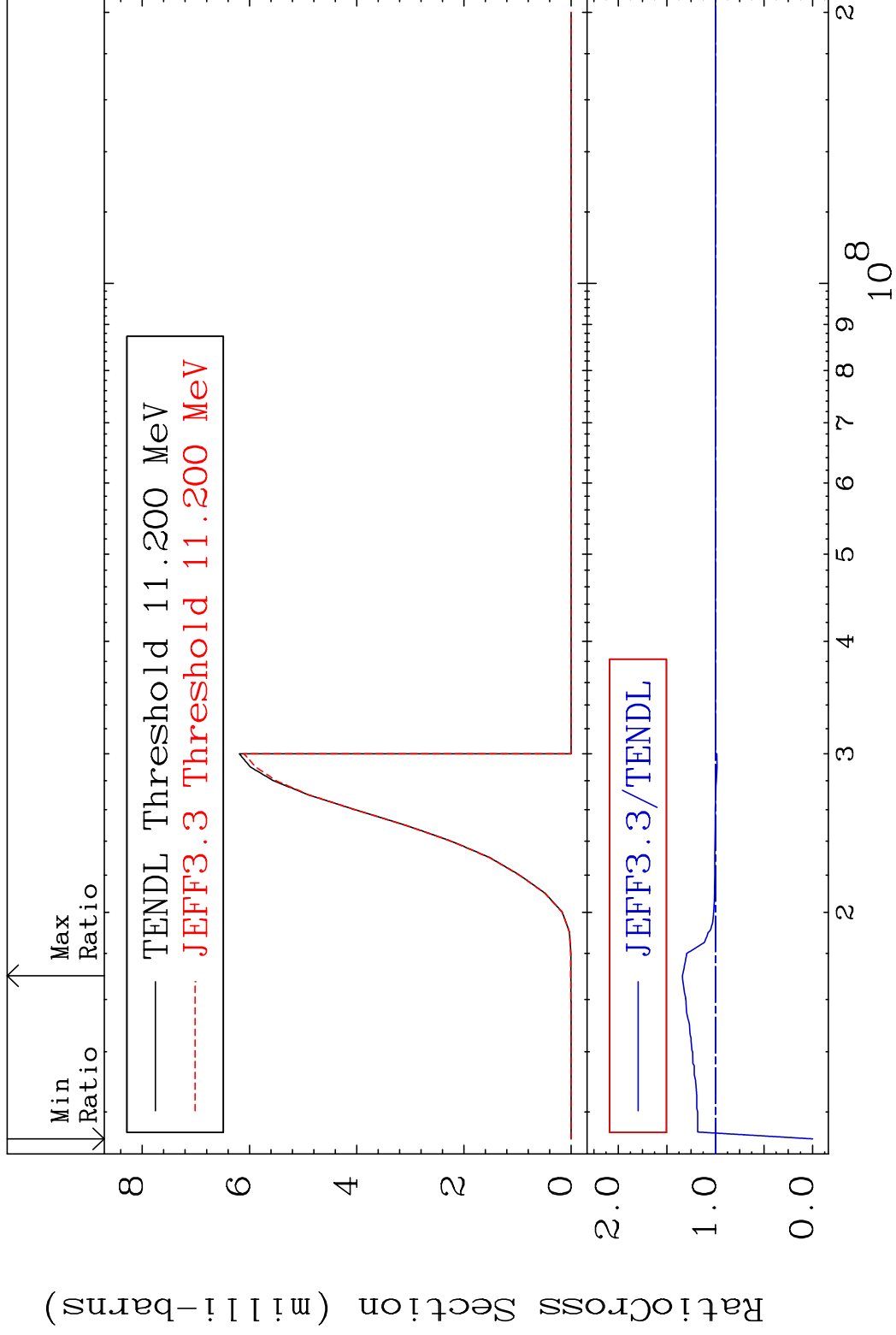
18-Ar-38

MAT 1831

(n, He-3)

18-Ar-38

Cross Section -100.0 To 33.99 %

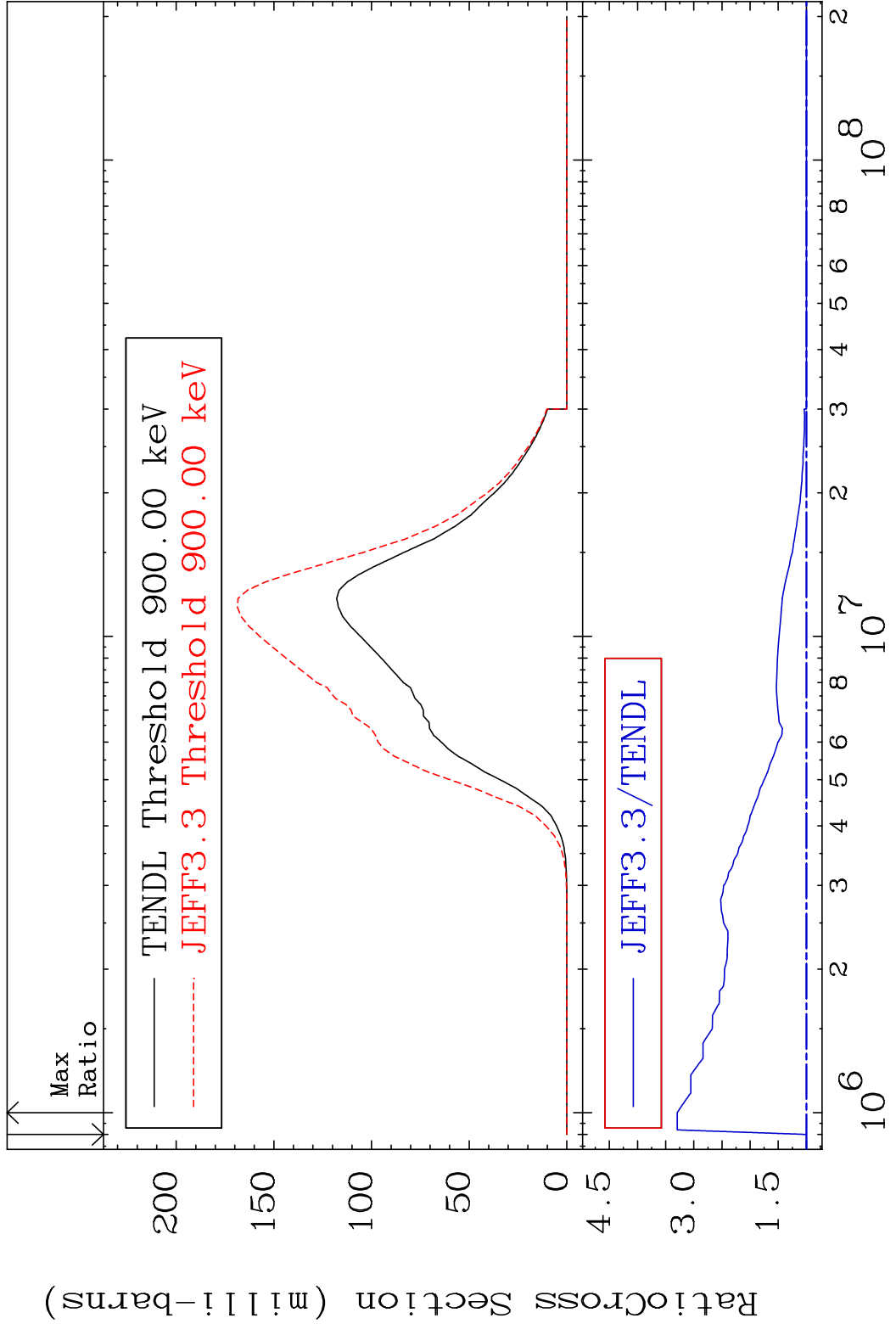


44

Incident Energy (eV)

18-Ar-38

MAT 1831 (n, α) 18-Ar-38
 Cross Section 0.000 To 229.5 %



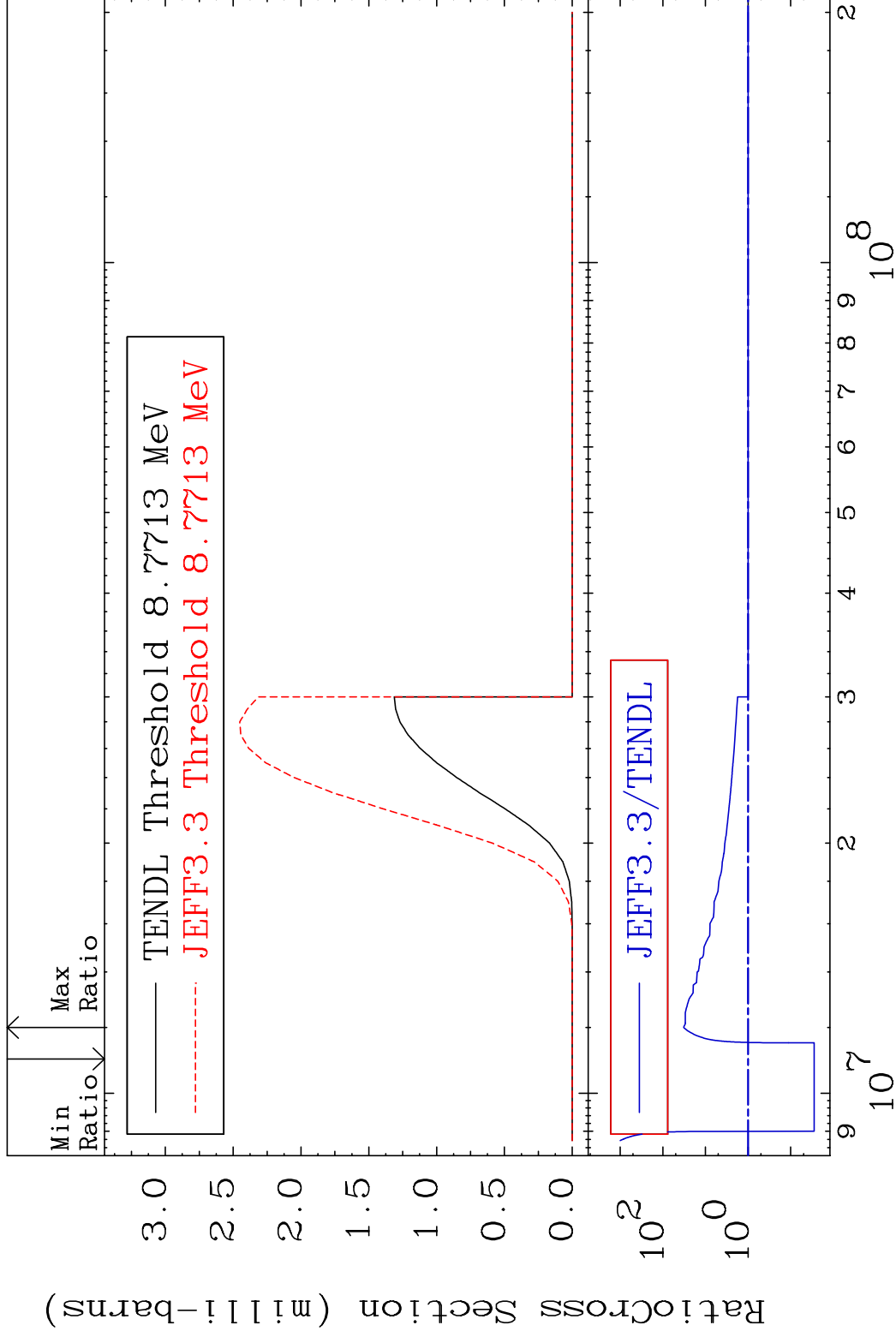
45 18-Ar-38

MAT 1831

(n,2α)

18-Ar-38

Cross Section -97.17 To 3142. %



46

Incident Energy (eV)

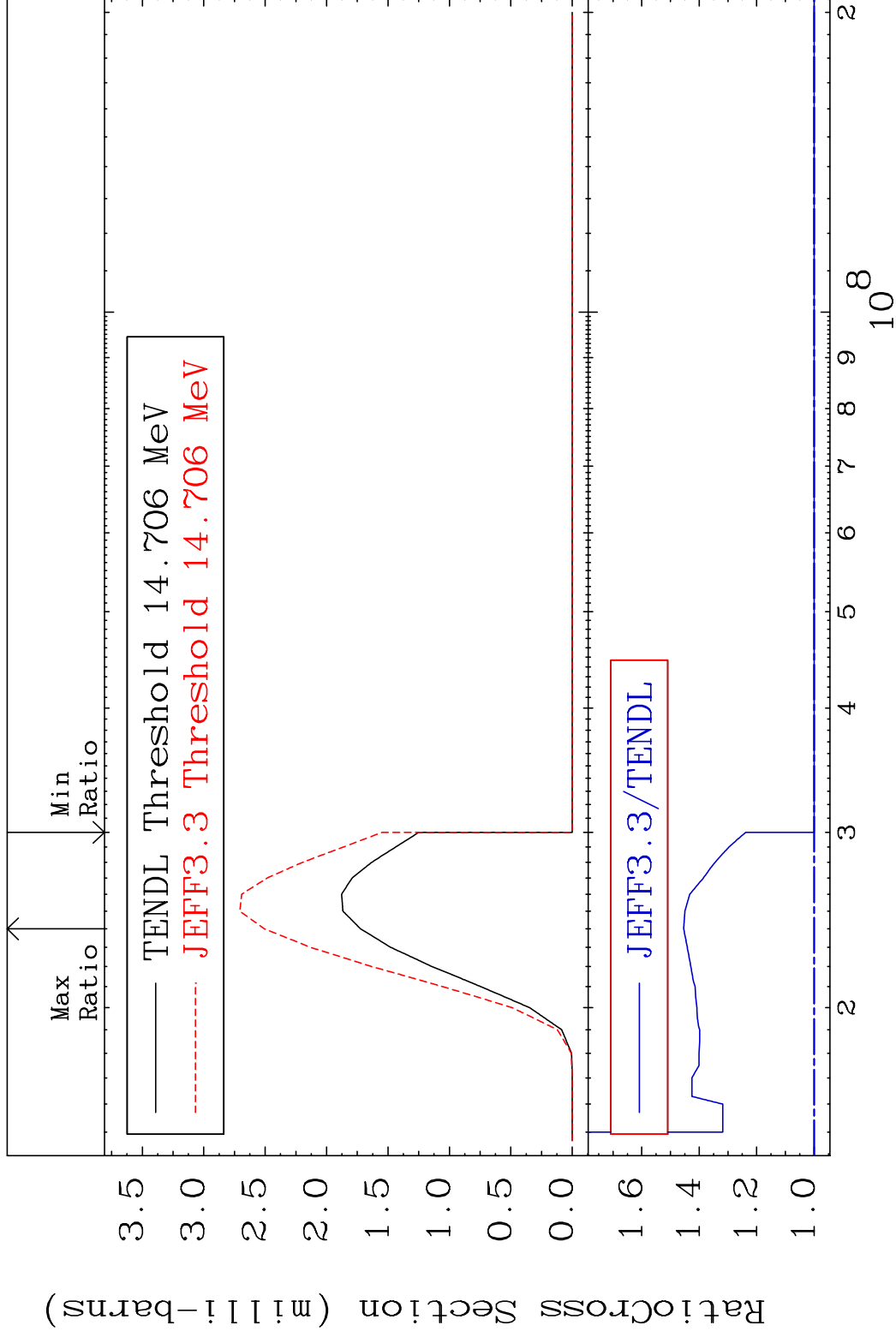
18-Ar-38

MAT 1831

(n,2p)

18-Ar-38

Cross Section 0.000 To 45.41 %

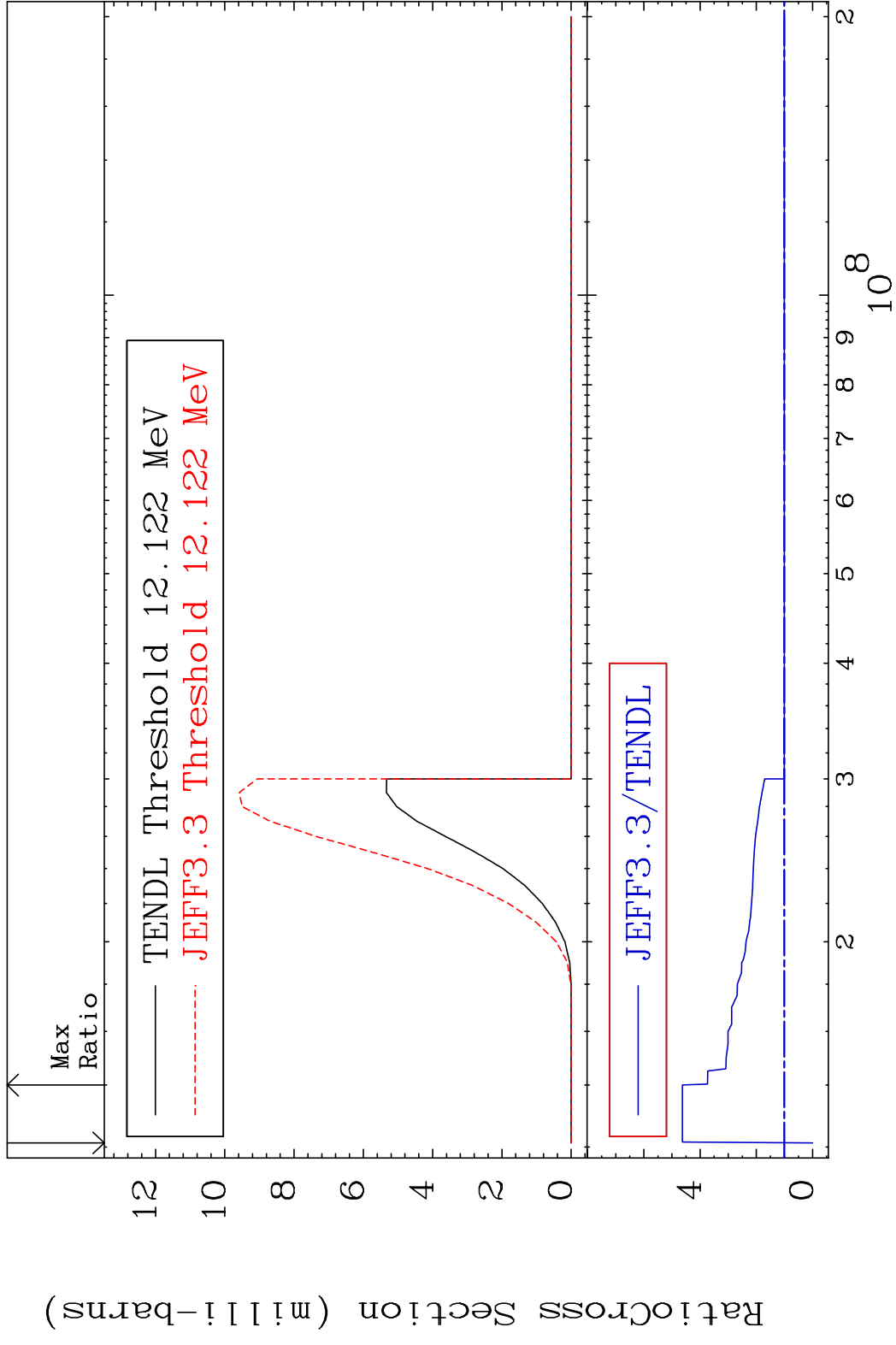


47

Incident Energy (eV)

18-Ar-38

MAT 1831 (n,p) α 18-Ar-38
 Cross Section -100.0 To 363.0 %

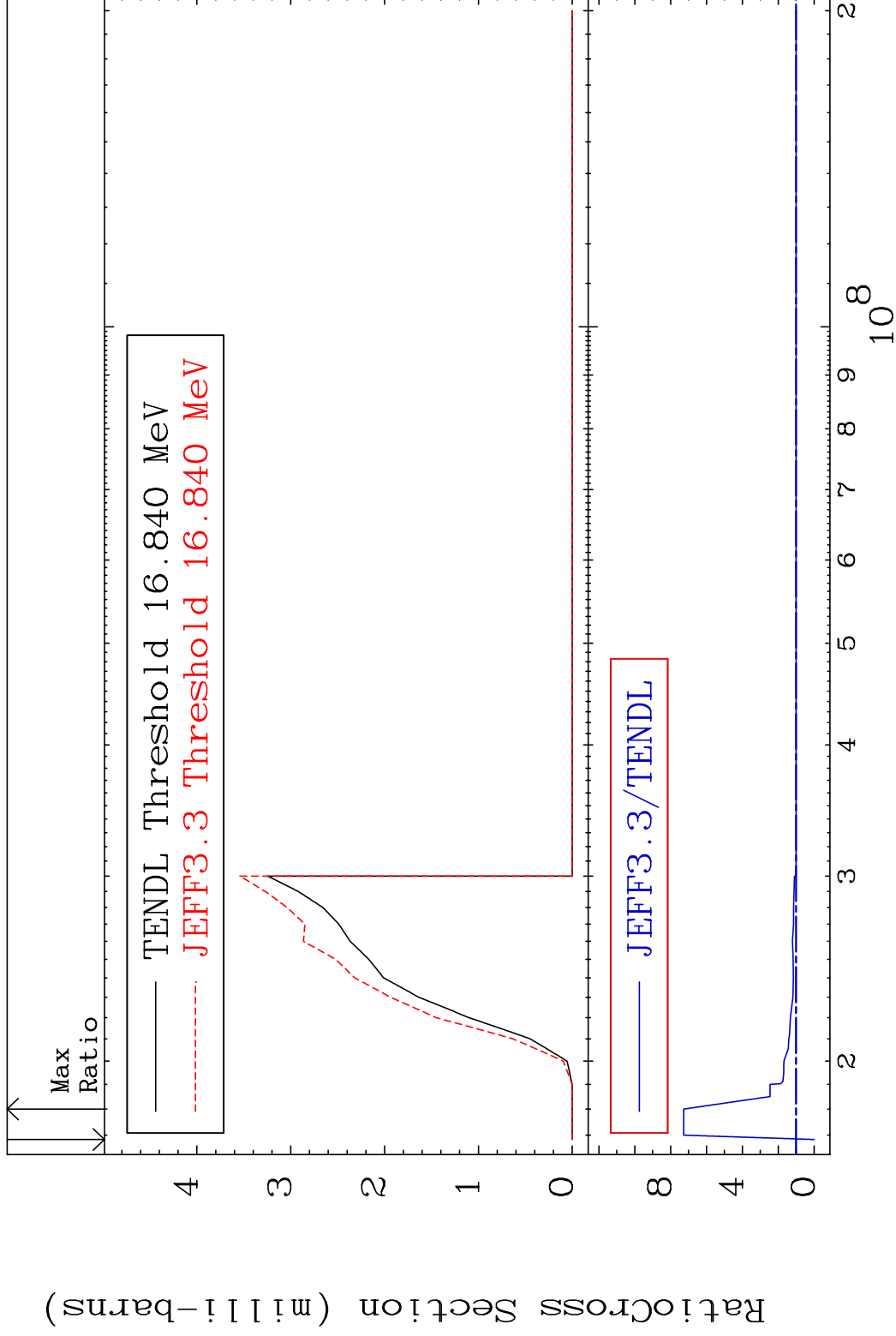


MAT 1831

(n,p) d

18-Ar-38

Cross Section -100.0 To 627.2 %

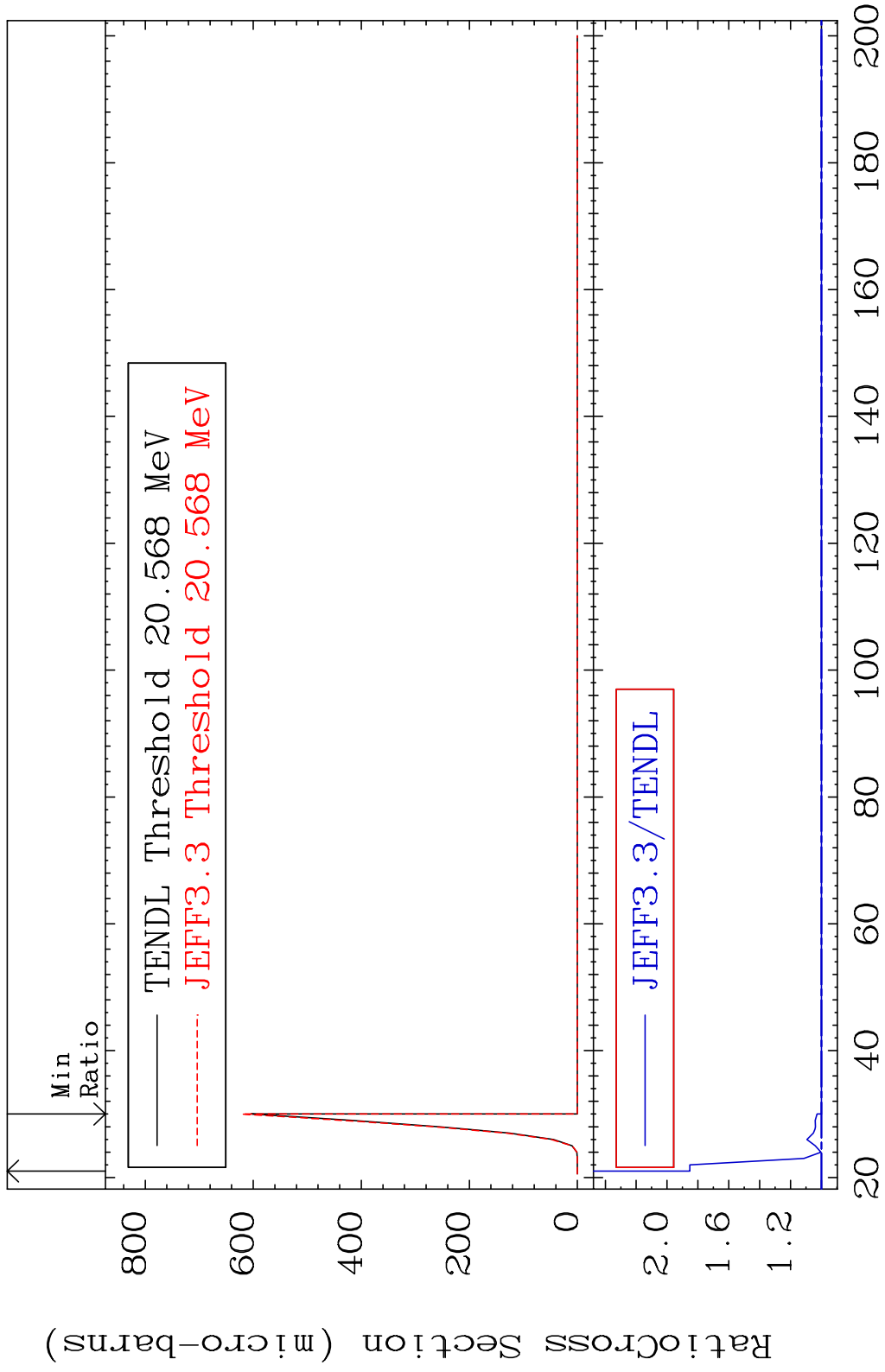


49

Incident Energy (eV)

18-Ar-38

MAT 1831 (n,p) t 18-Ar-38
Cross Section 0.000 To 85.28 %



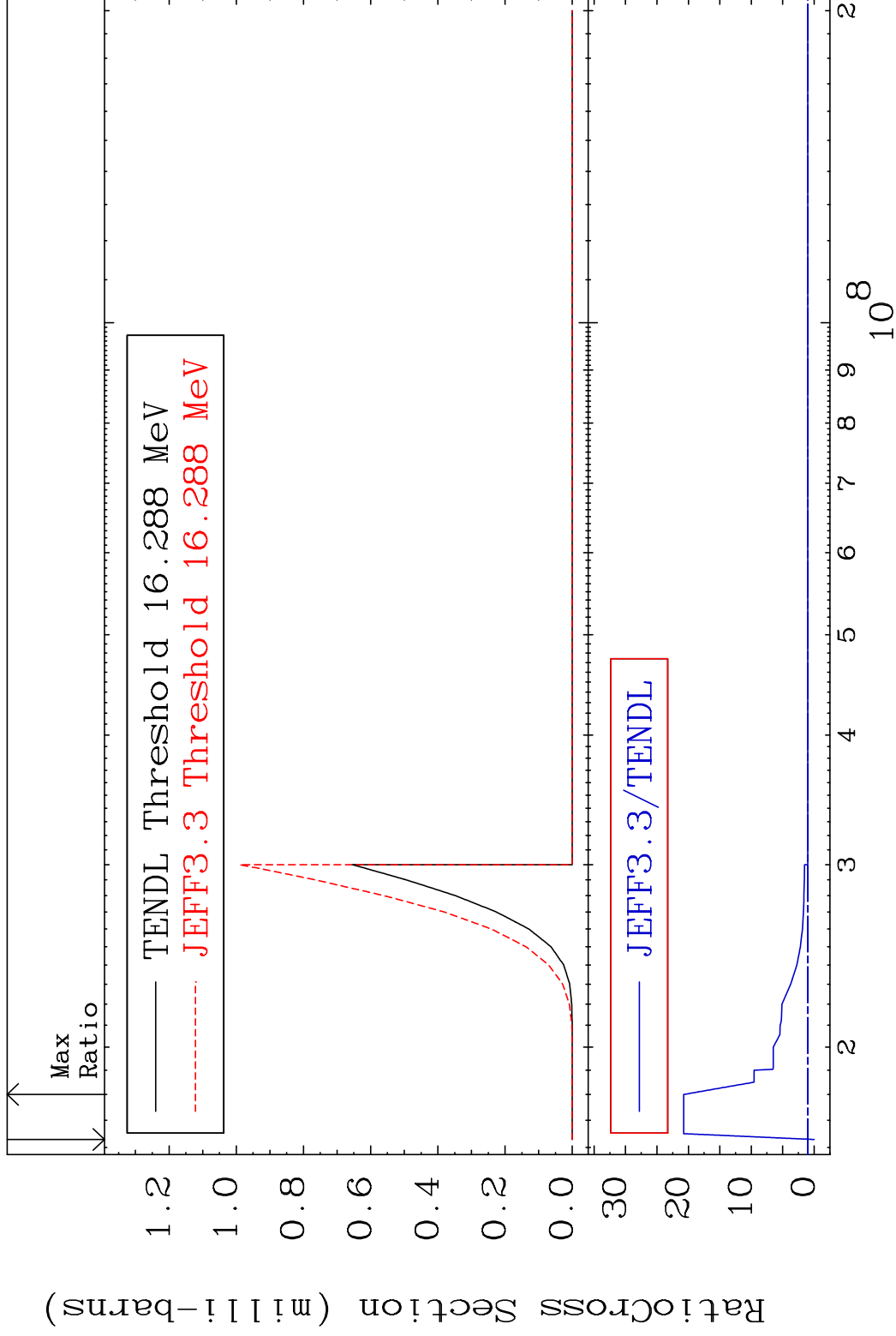
50 18-Ar-38

MAT 1831

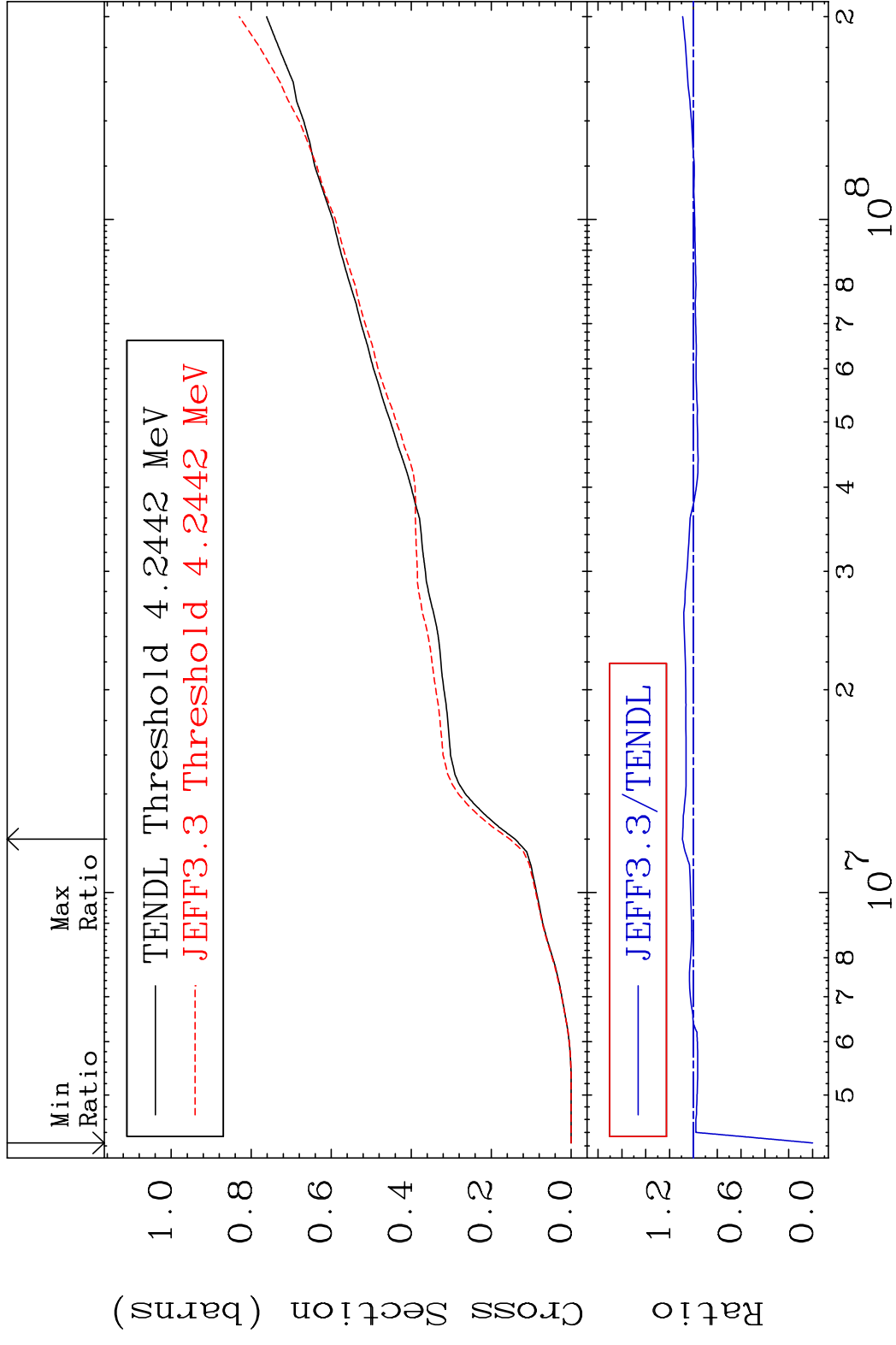
(n,d) α

18-Ar-38

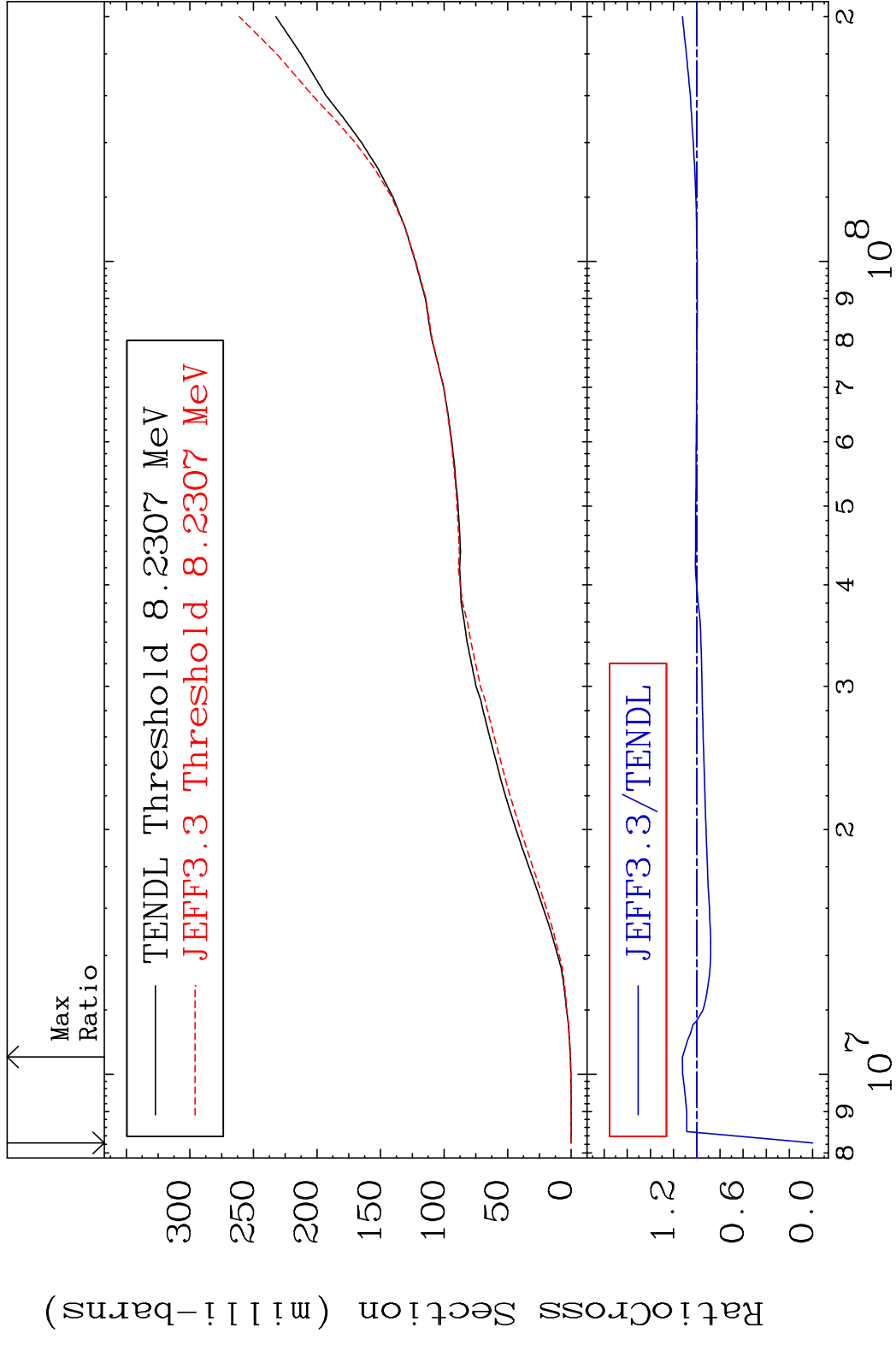
Cross Section -100.0 To 1975. %



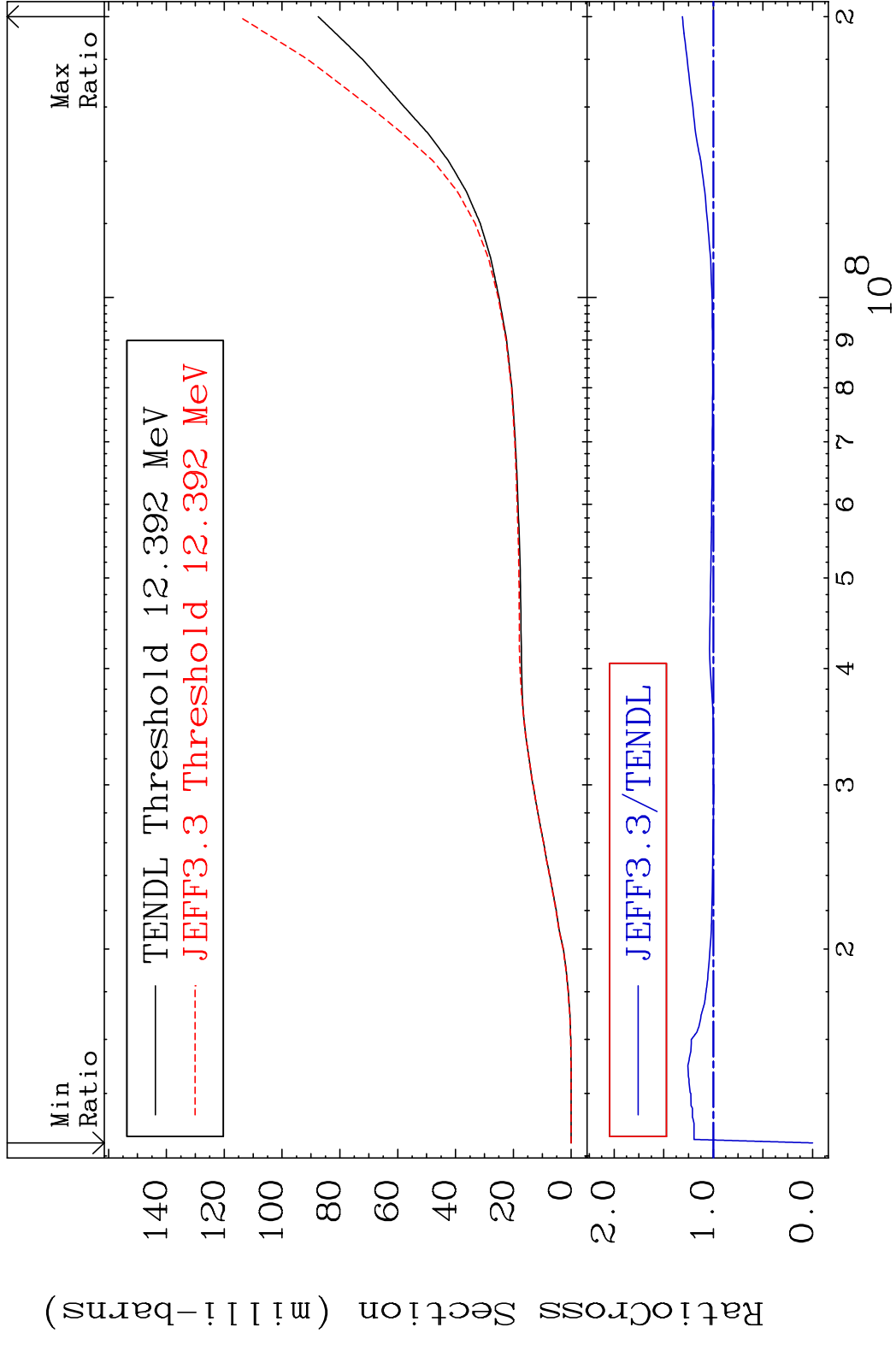
MAT 1831 Hydrogen Production 18-Ar-38
 Cross Section -100.0 To 9.268 %



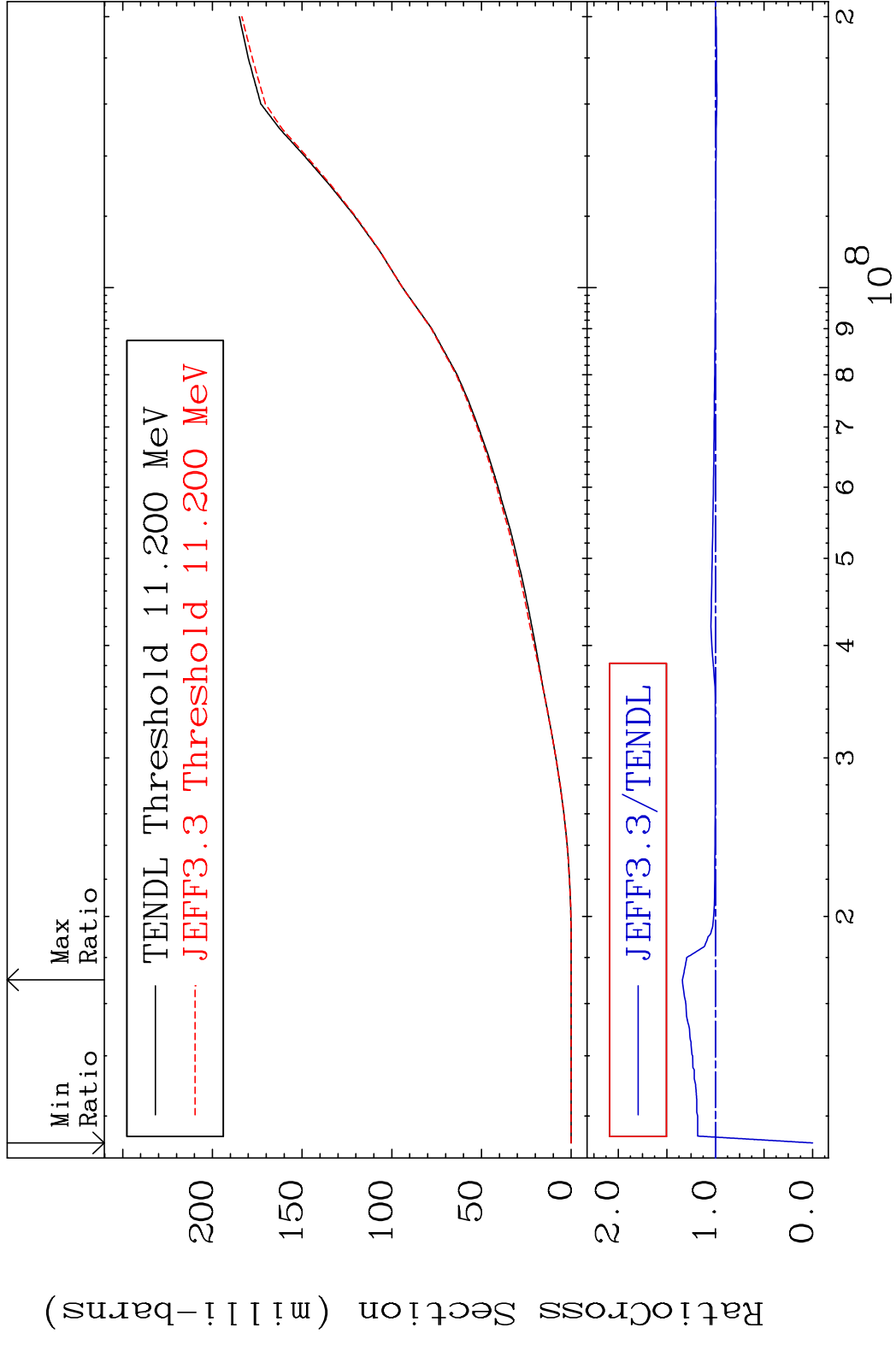
MAT 1831 Deuterium Production 18-Ar-38
 Cross Section -100.0 To 12.43 %



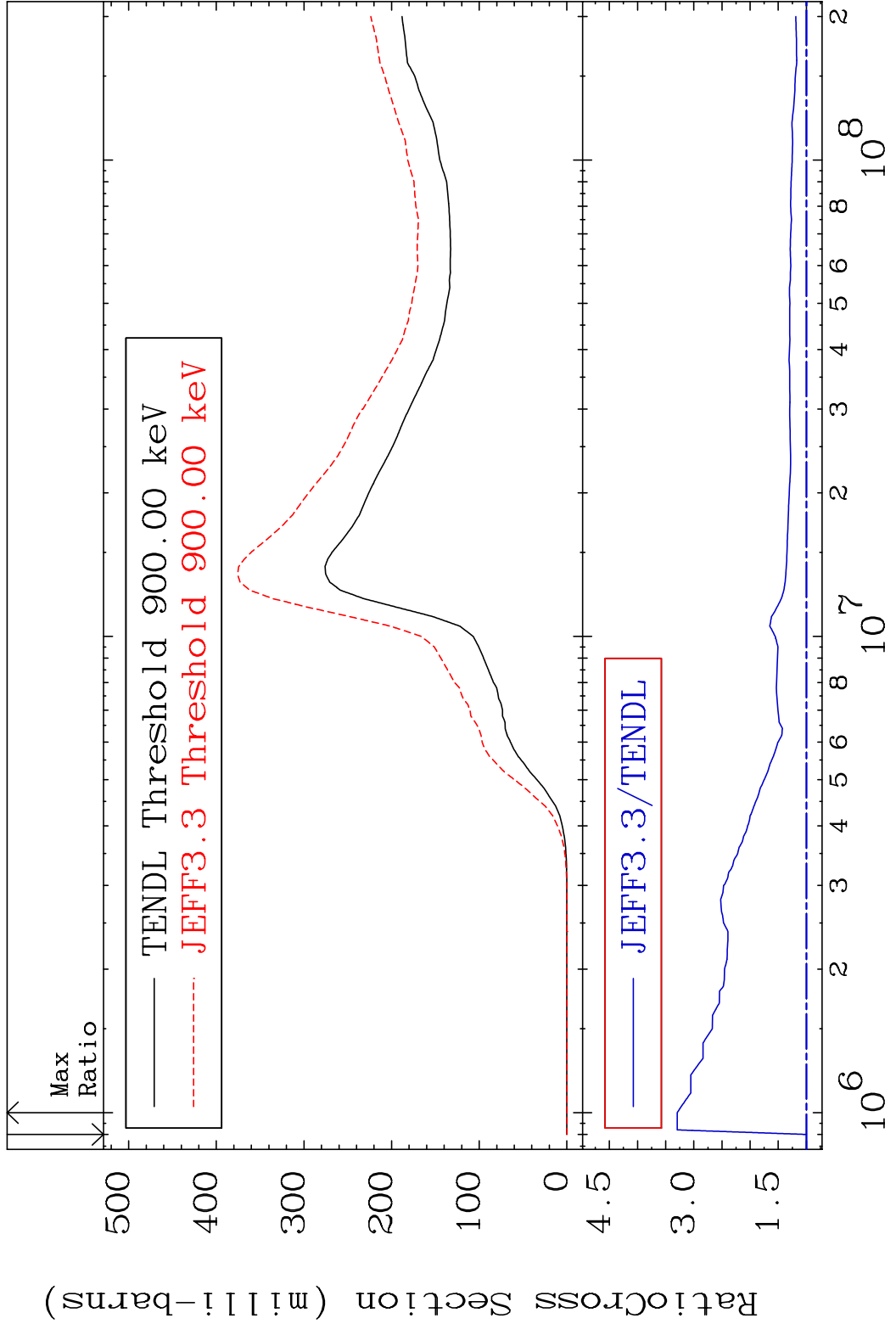
MAT 1831 Tritium Production 18-Ar-38
 Cross Section -100.0 To 31.23 %



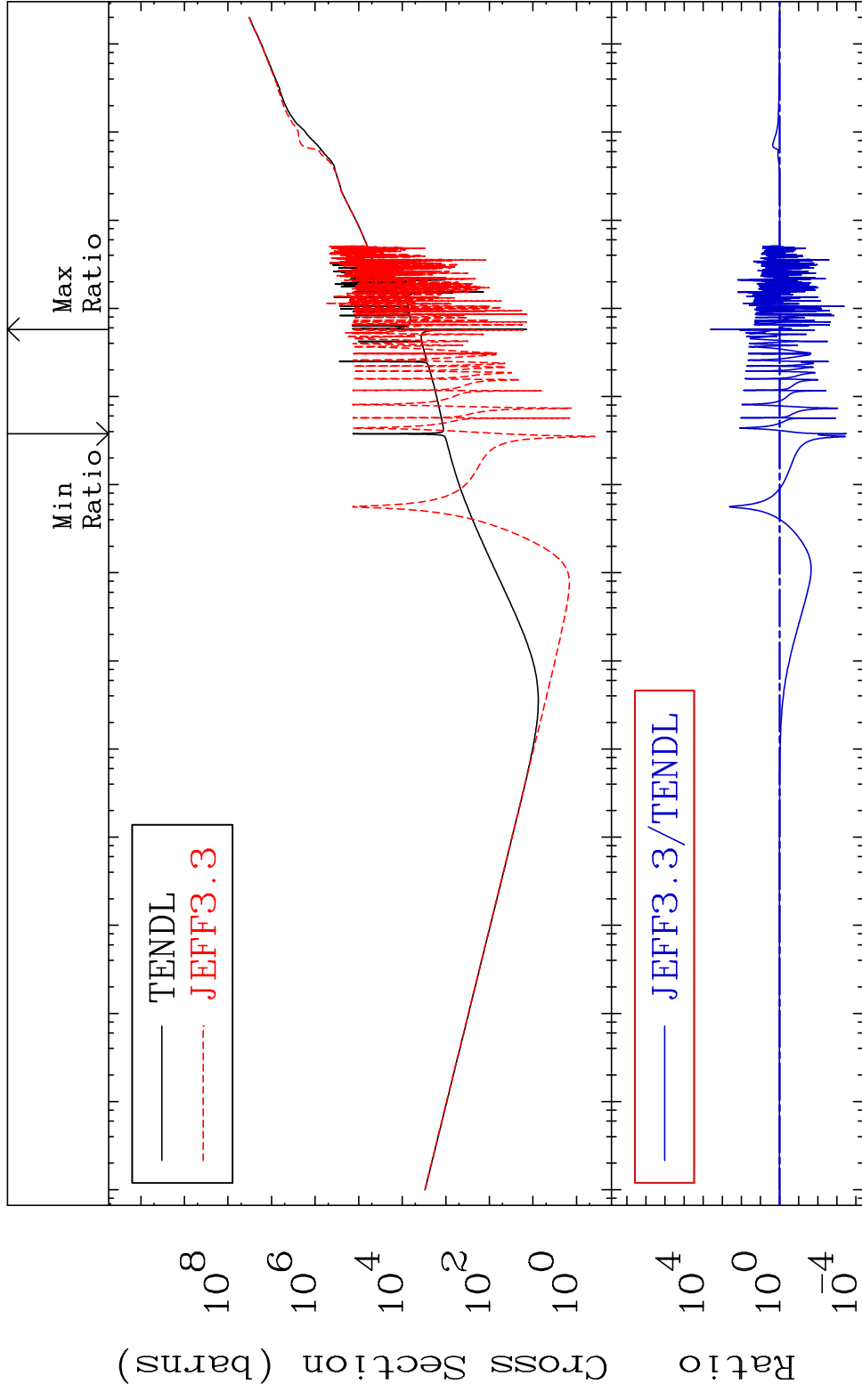
MAT 1831 He-3 Production 18-Ar-38
 Cross Section -100.0 To 33.99 %



MAT 1831 He-4 Production 18-Ar-38
 Cross Section 0.000 To 229.5 %



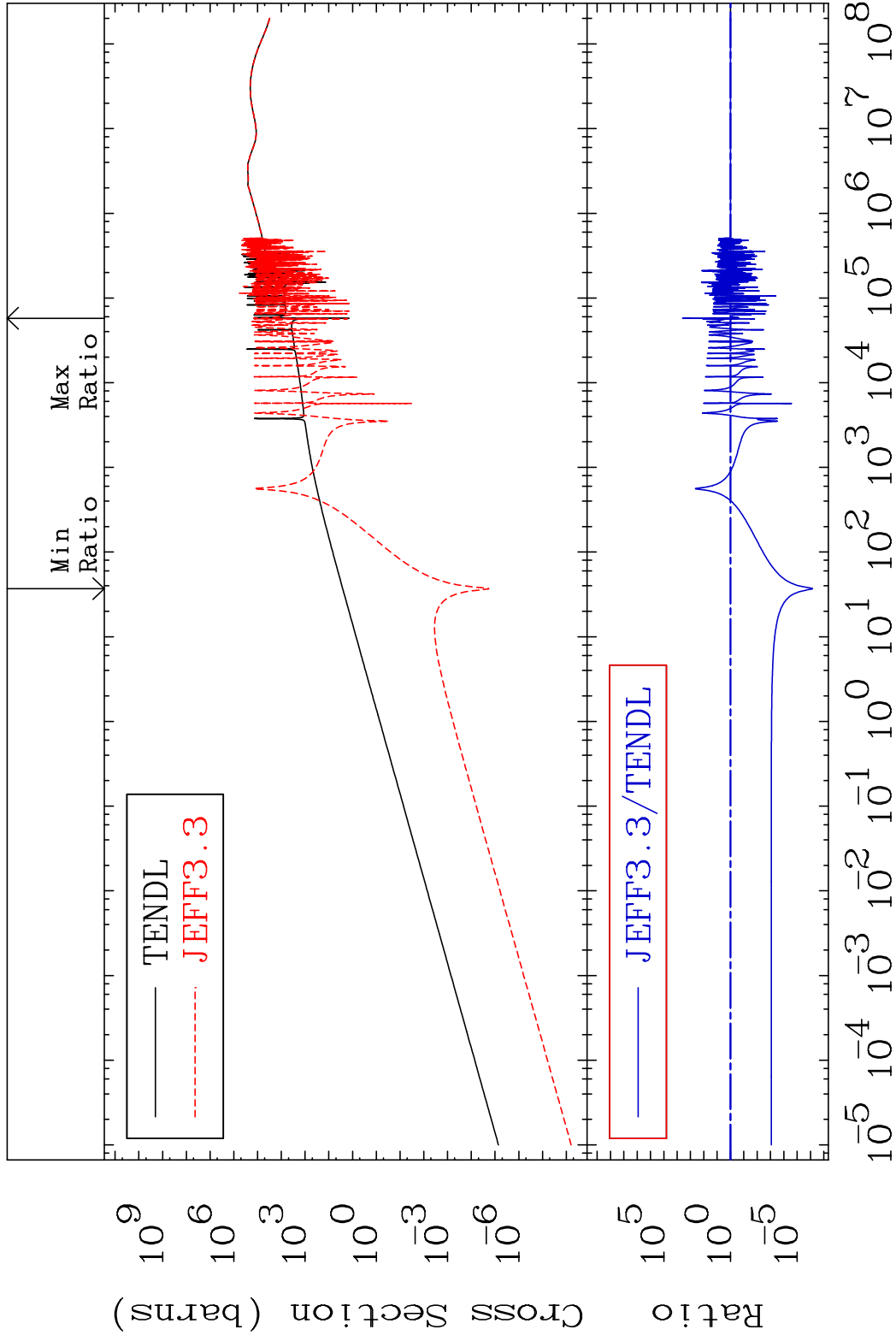
MAT 1831 Kerma total (eV-barns) 18-Ar-38
 Cross Section -99.97 To 9999. %



MAT 1831

Kerma elastic
Cross Section

18-Ar-38
-100.0 To 9999. %

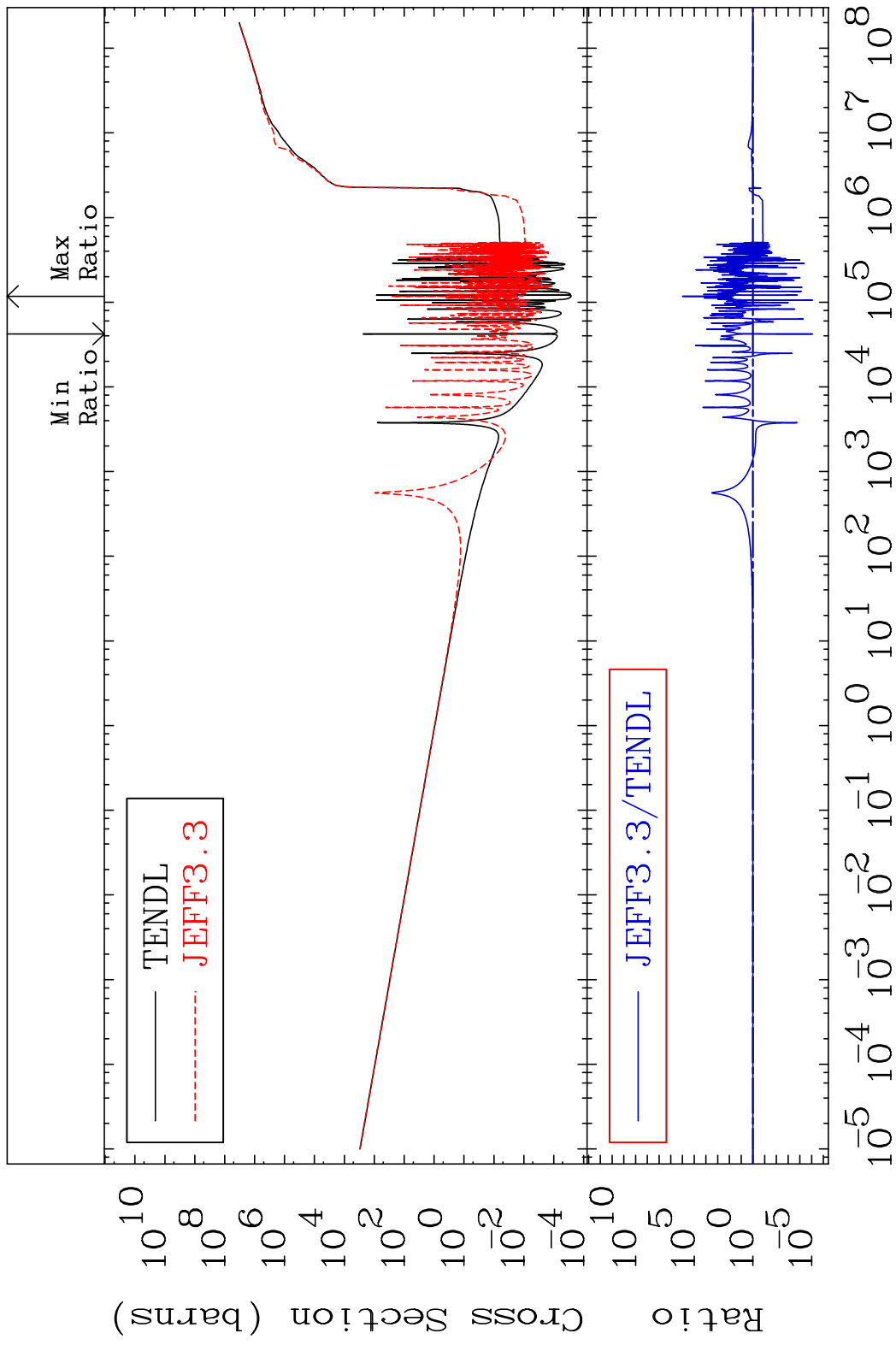


58

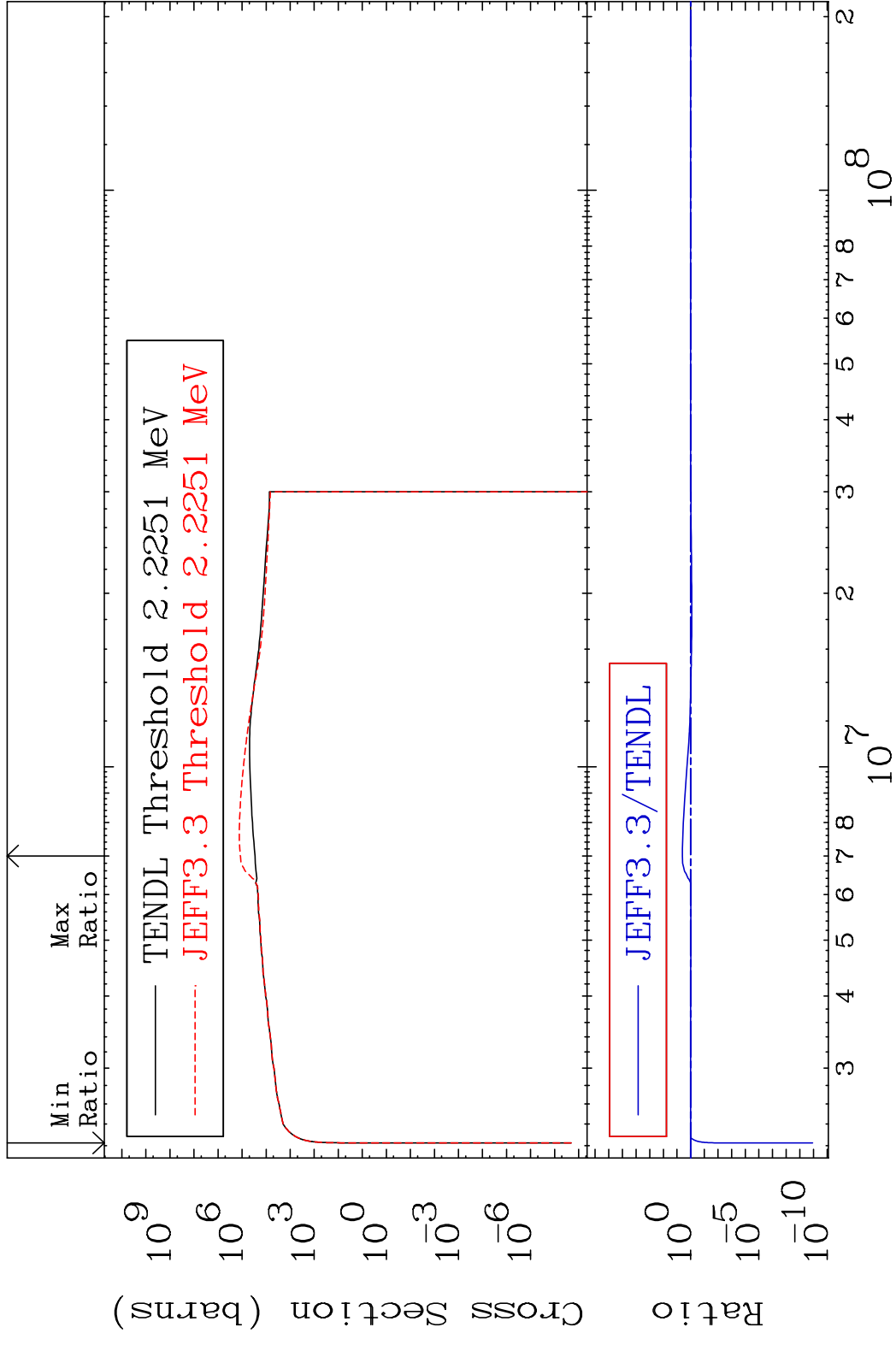
Incident Energy (eV)

18-Ar-38

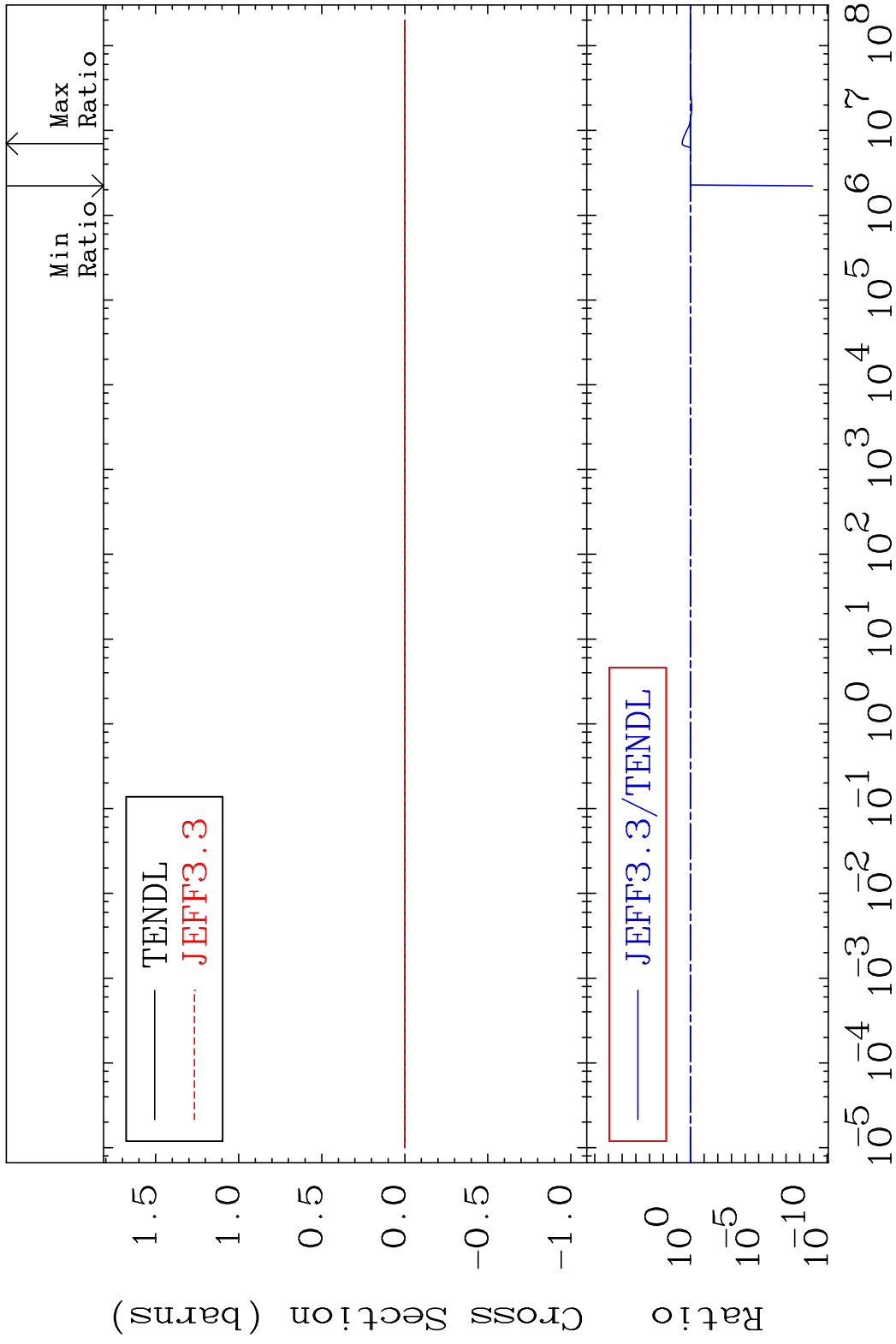
MAT 1831 Kerma non-elastic (all but mt2) 18-Ar-38
 Cross Section -100.0 To 9999. %



MAT 1831 Kerma inelastic (mt51-91) 18-Ar-38
 Cross Section -100.0 To 305.7 %



MAT 1831 Kerma fission (mt18 or mt19-20-21-38) 18-Ar-38
 Cross Section -100.0 To 305.7 %

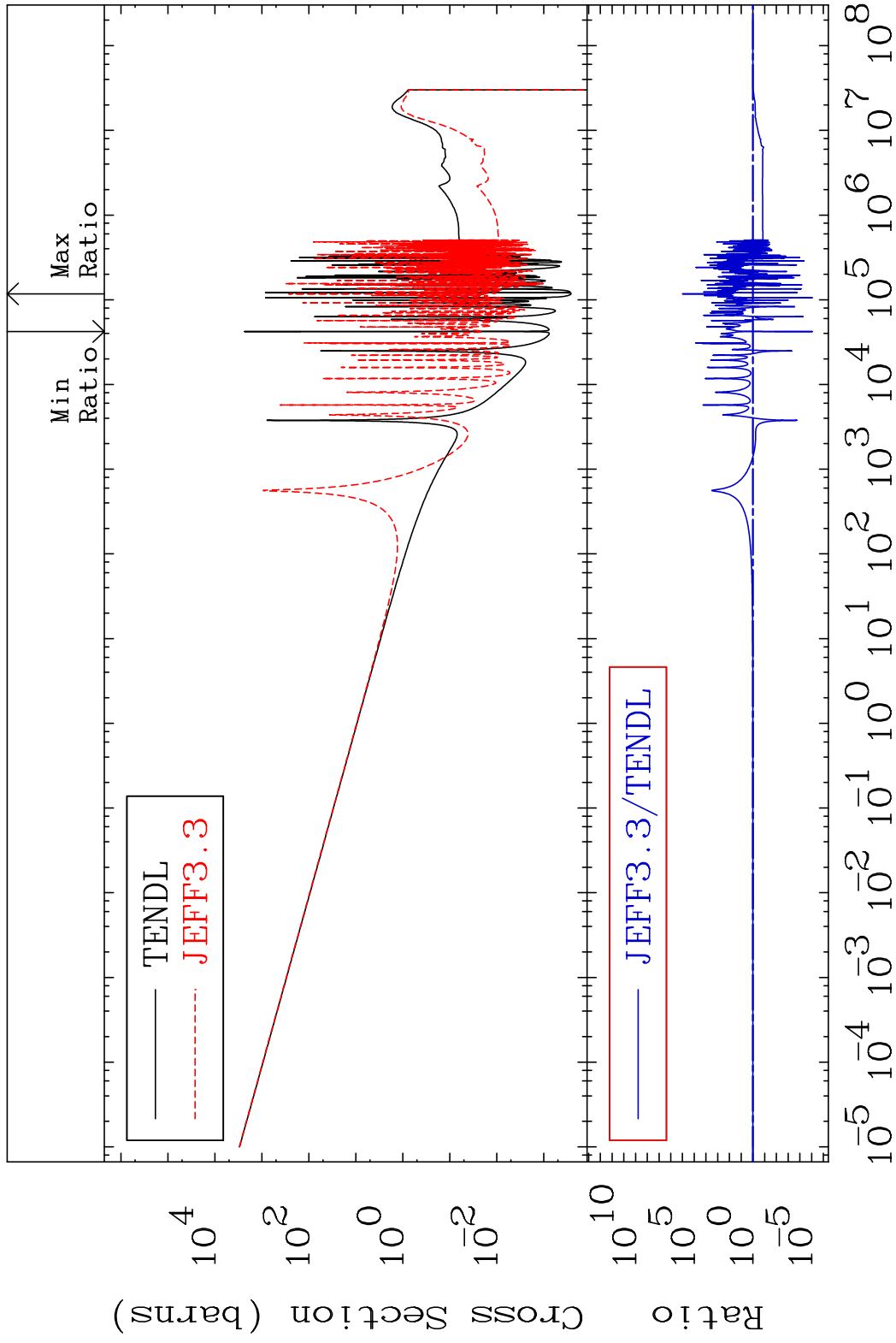


MAT 1831

Kerma capture (mt102)

18-Ar-38

Cross Section -100.0 To 9999. %

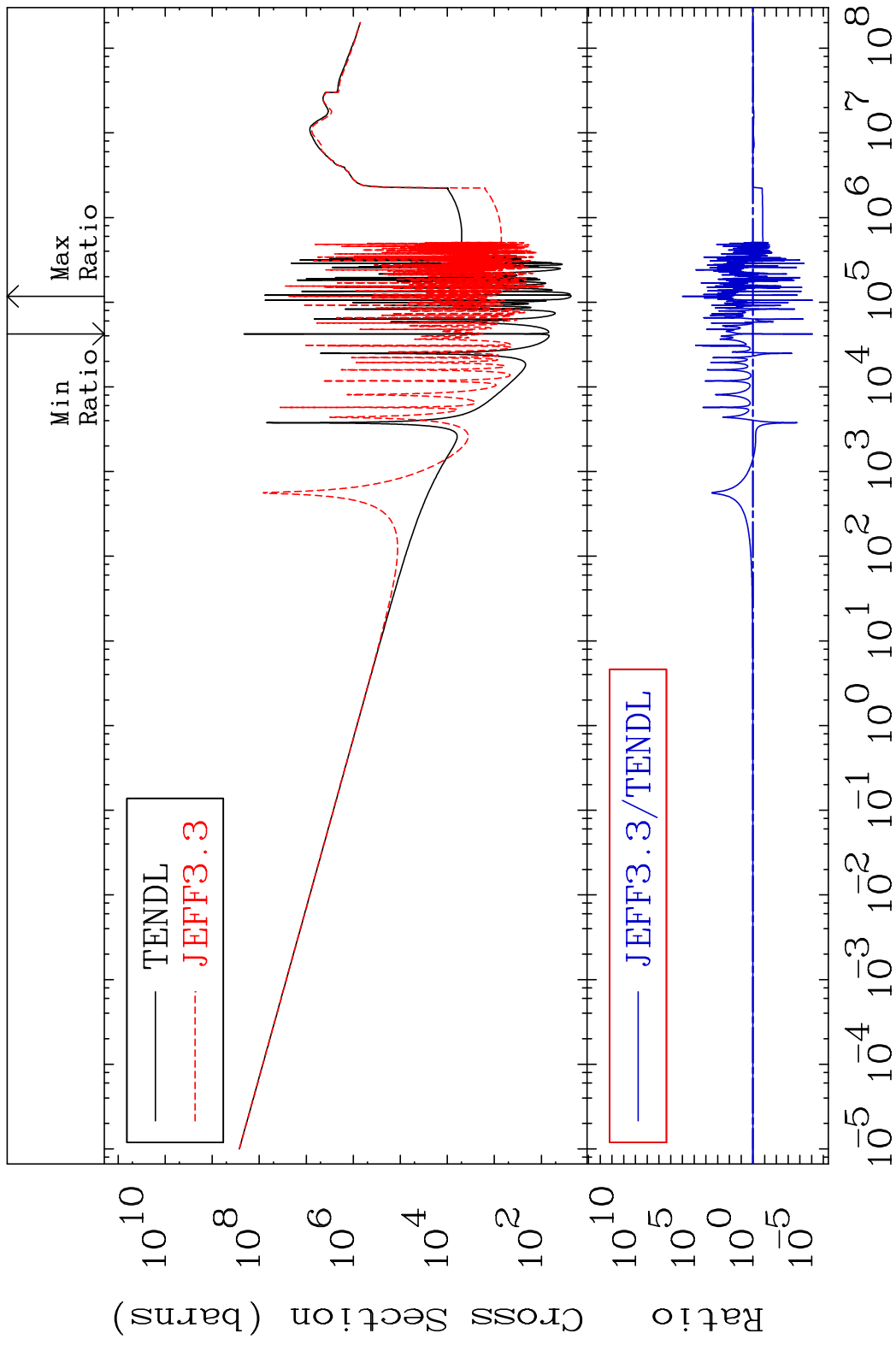


62

Incident Energy (eV)

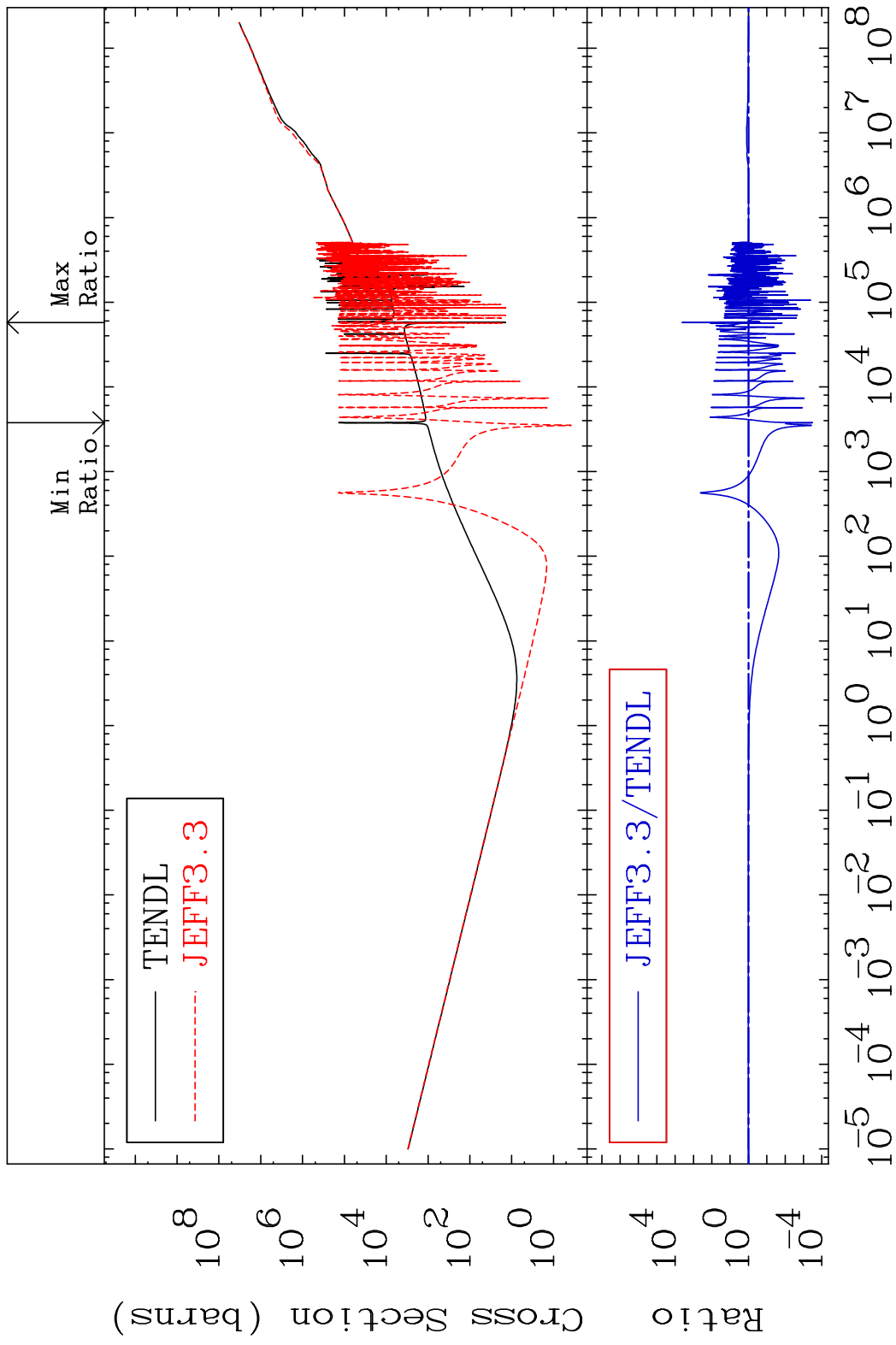
18-Ar-38

MAT 1831 Total photon (eV-barns) 18-Ar-38
 Cross Section -100.0 To 9999. %

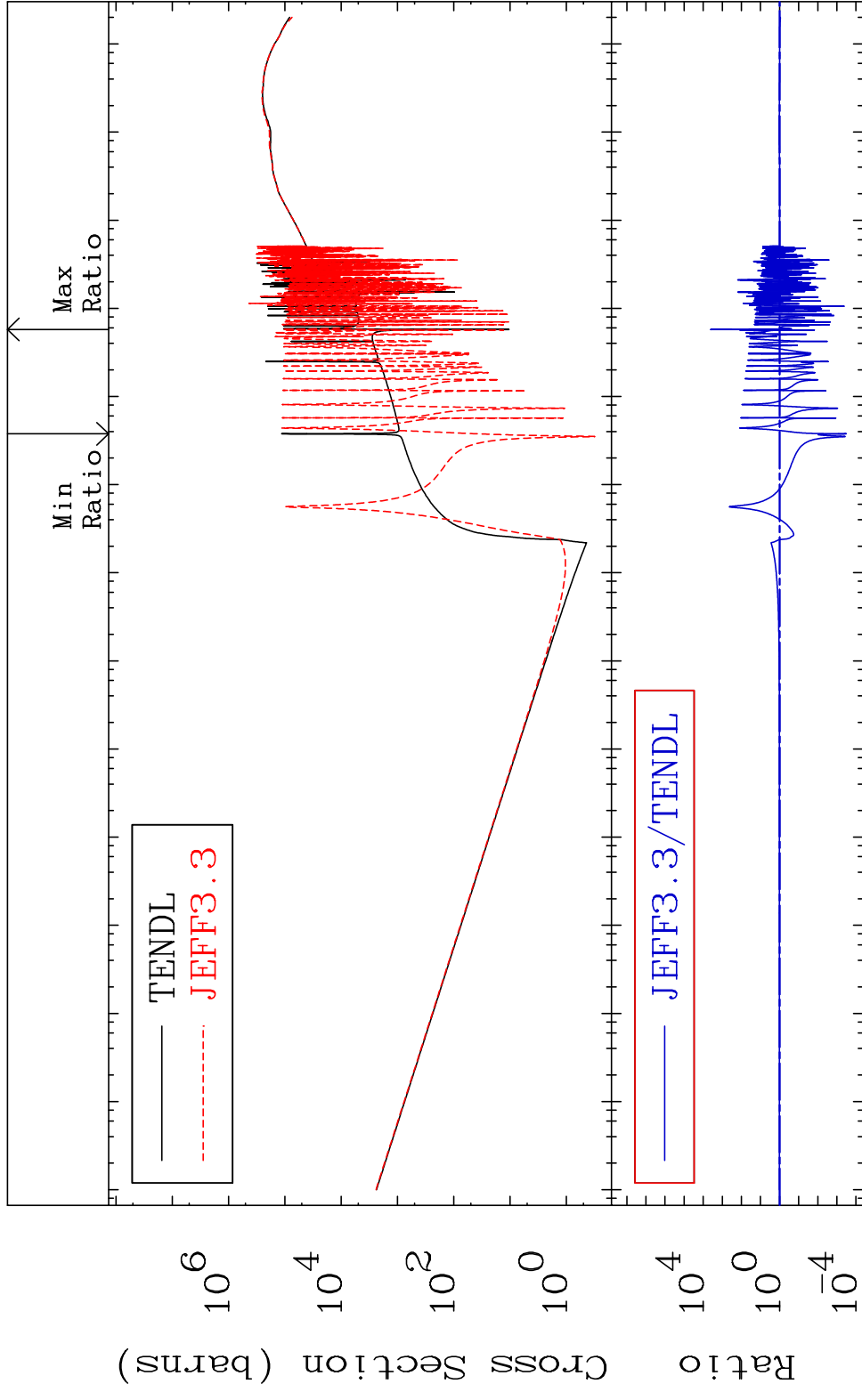


63 Incident Energy (eV) 18-Ar-38

MAT 1831 Total kinematic kerma (high limit) 18-Ar-38
 Cross Section -99.97 To 9999. %



MAT 1831 Dpa total (eV-barns) 18-Ar-38
 Cross Section -99.97 To 9999. %

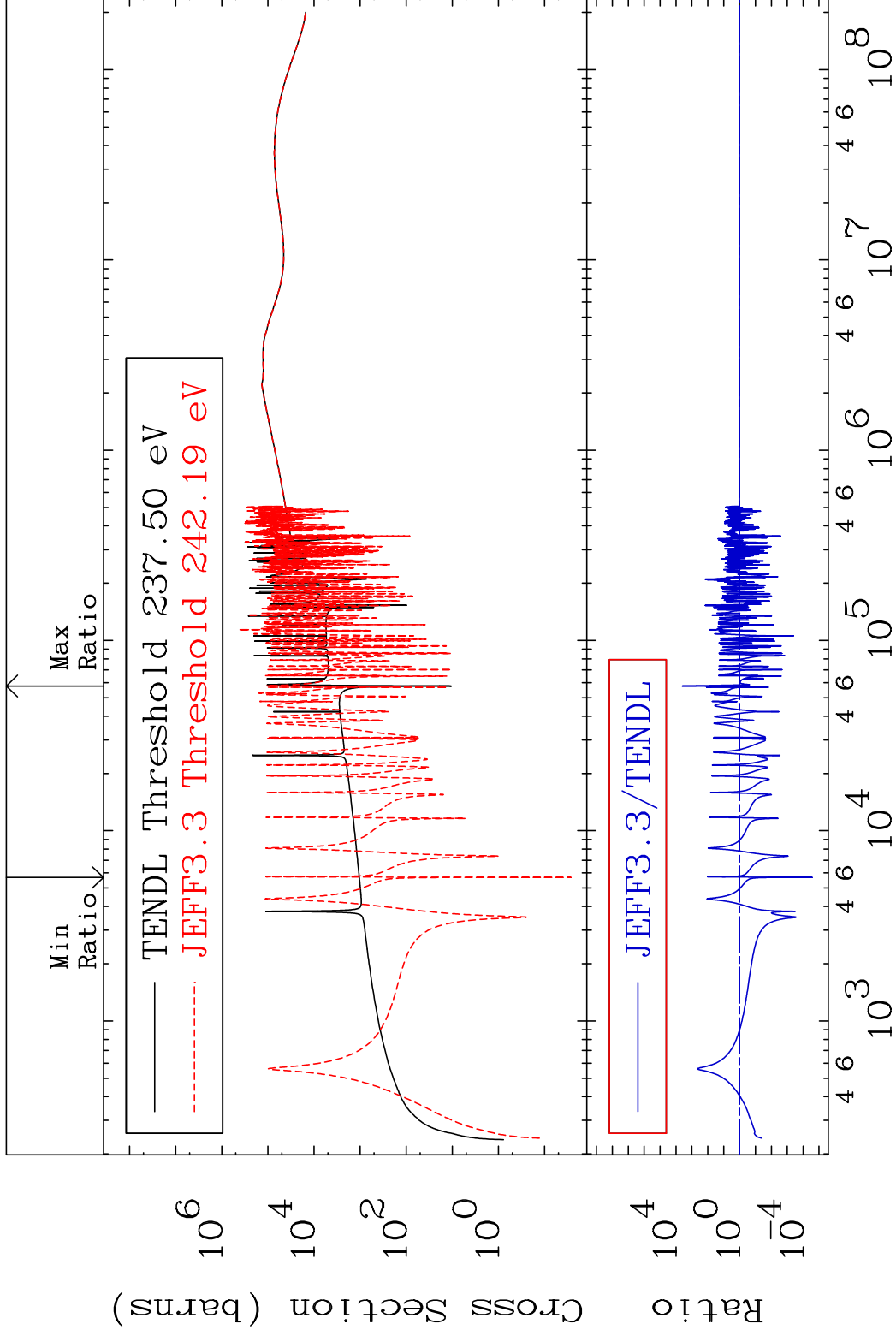


MAT 1831

Dpa elastic (mt2)

18-Ar-38

Cross Section -100.0 To 9999. %

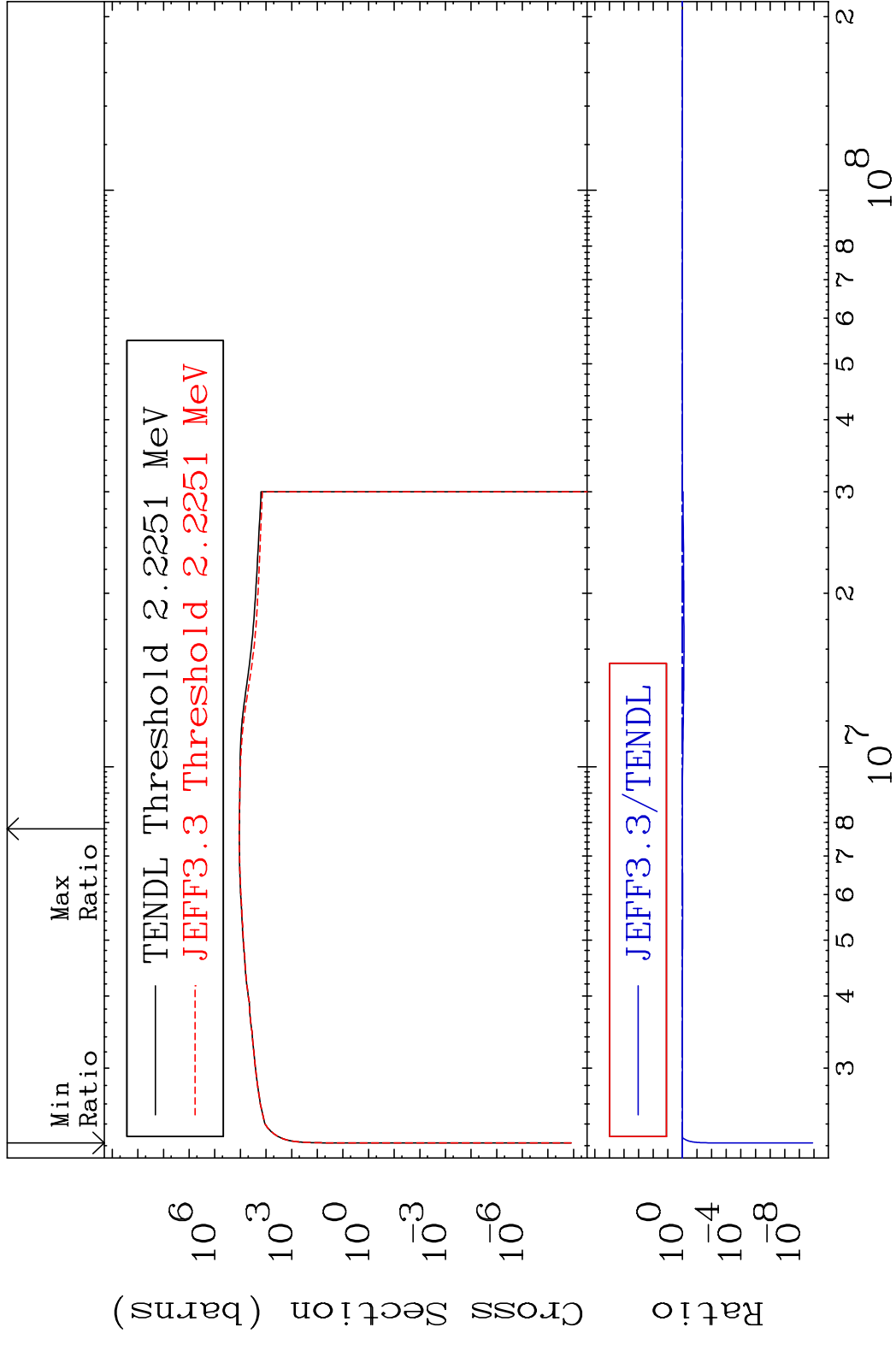


66

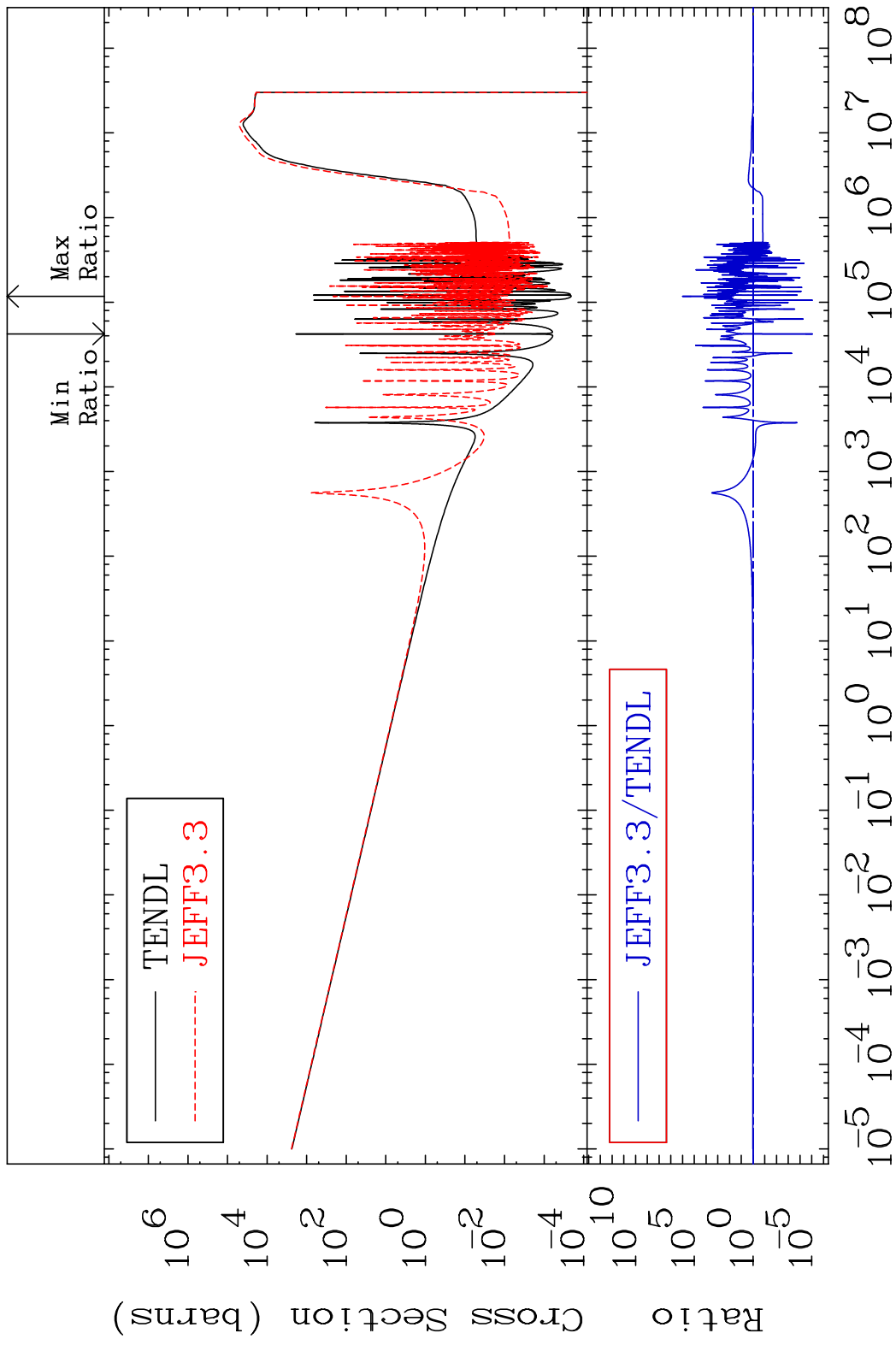
Incident Energy (eV)

18-Ar-38

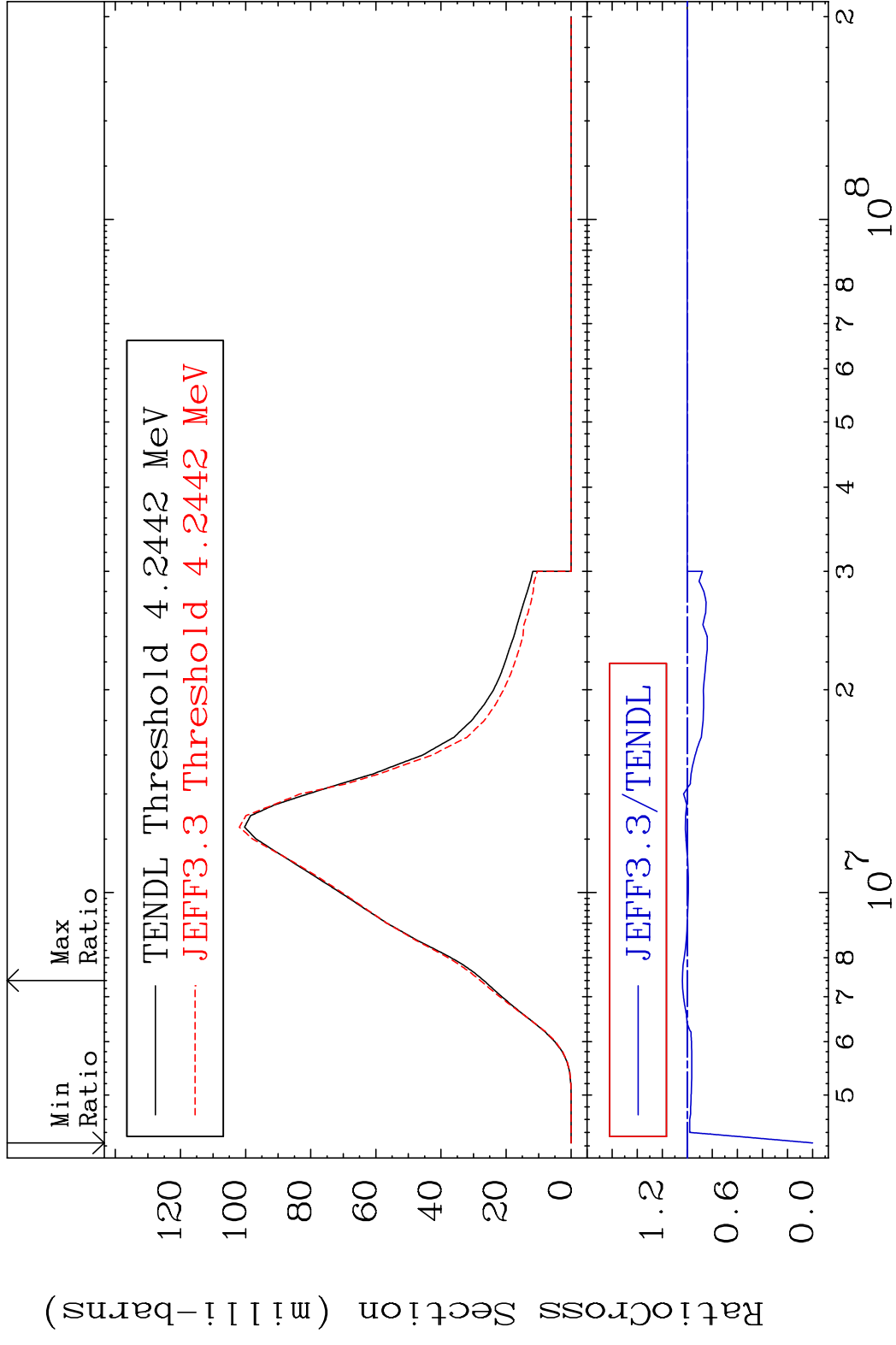
MAT 1831 Dpa inelastic (mt51-91) 18-Ar-38
 Cross Section -100.0 To 0.782 %



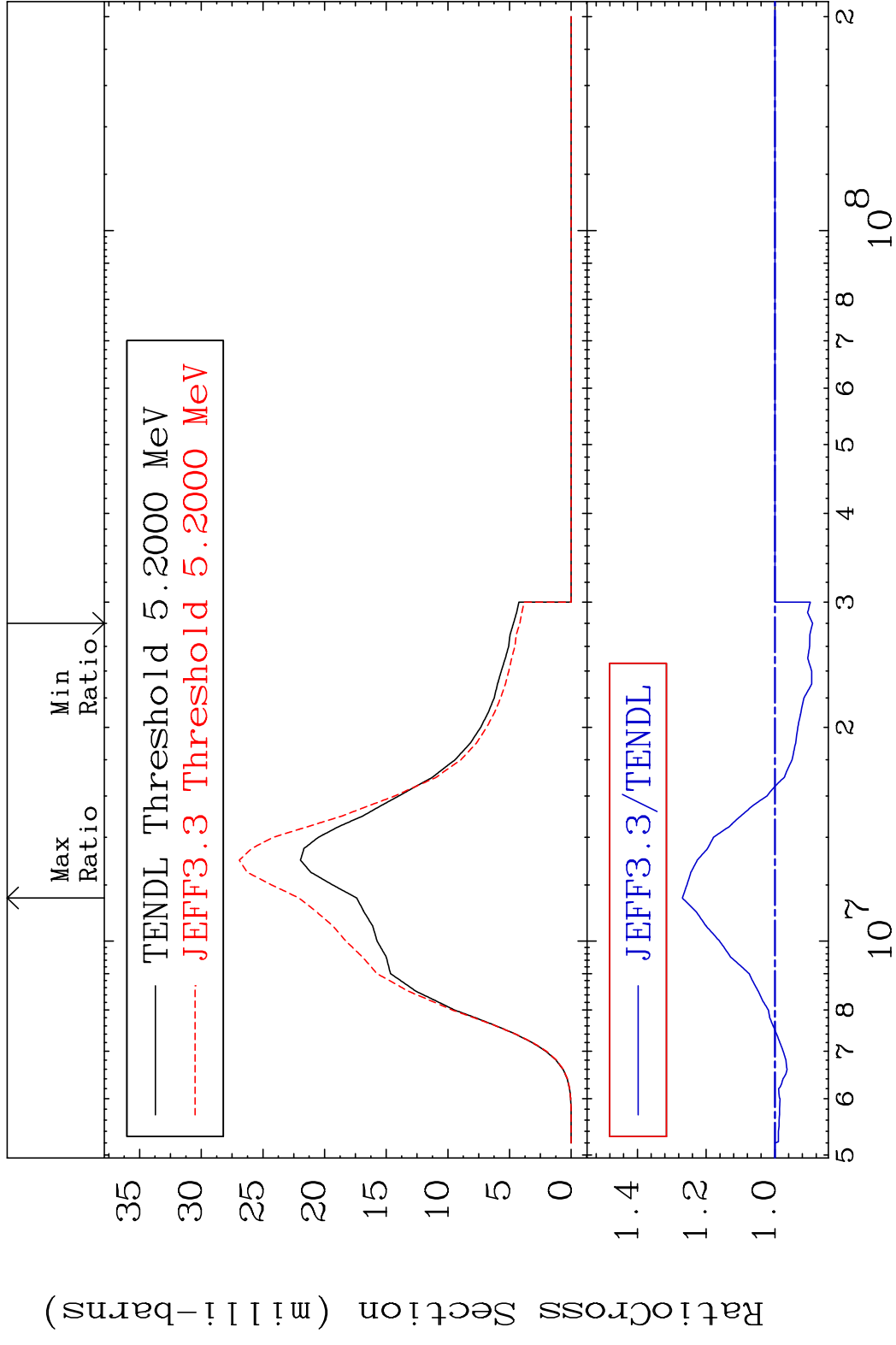
MAT 1831 Dpa disappearance (mt102 -120) 18-Ar-38
 Cross Section -100.0 To 9999. %



MAT 1831 (n, p): 17-Cl-38g 18-Ar-38
 Radionuclide Production Cross Section Ratio 3.937 %



MAT 1831 (n,p):17-Cl-38m1 18-Ar-38
 Radionuclide Production Cross Section 18-Ar-38
 26.92 %



70 Incident Energy (eV) 18-Ar-38