

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

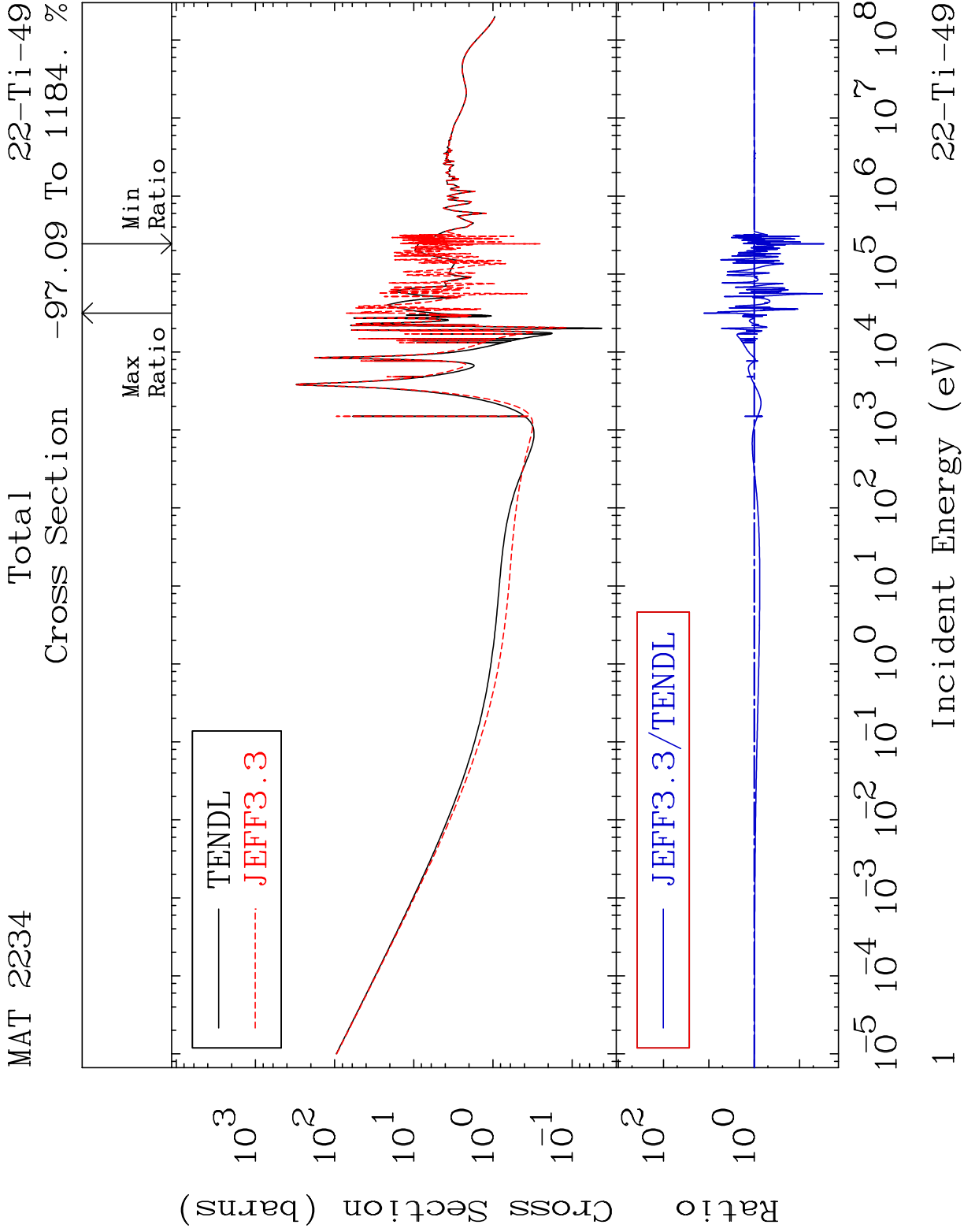
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Press Mouse Button to Start

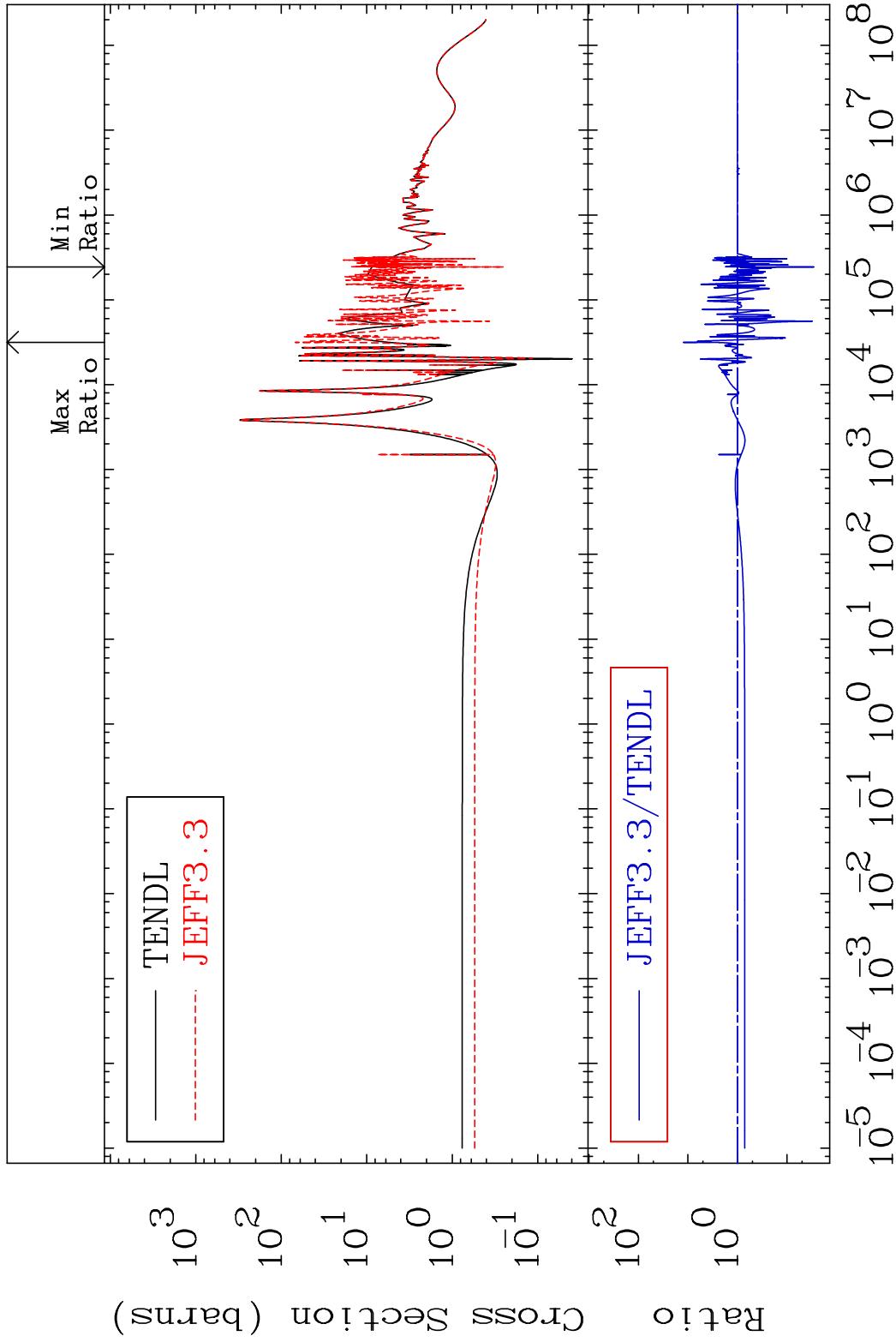


MAT 2234

Elastic

22-Ti-49

Cross Section -97.12 To 1131. %

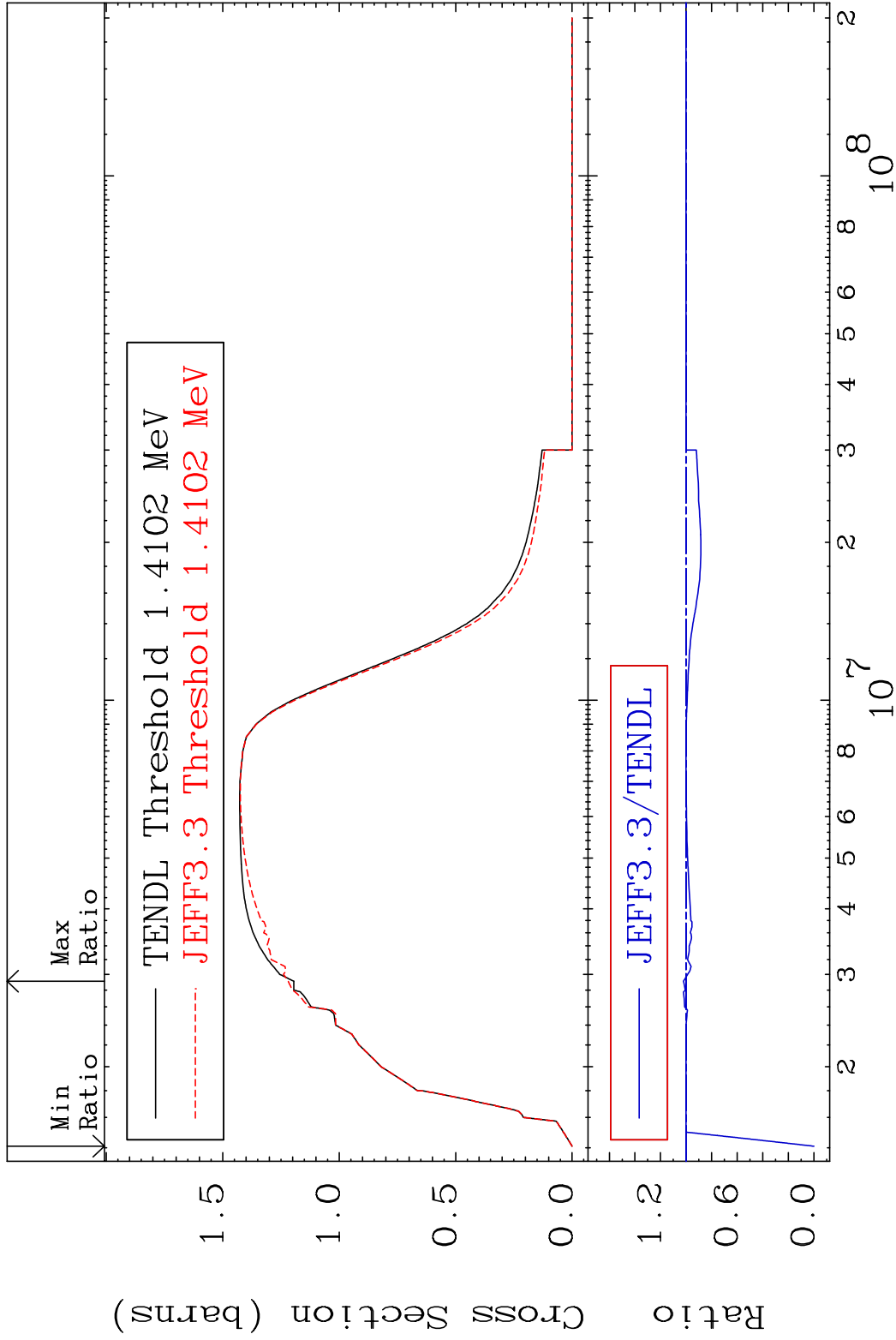


2

Incident Energy (eV)

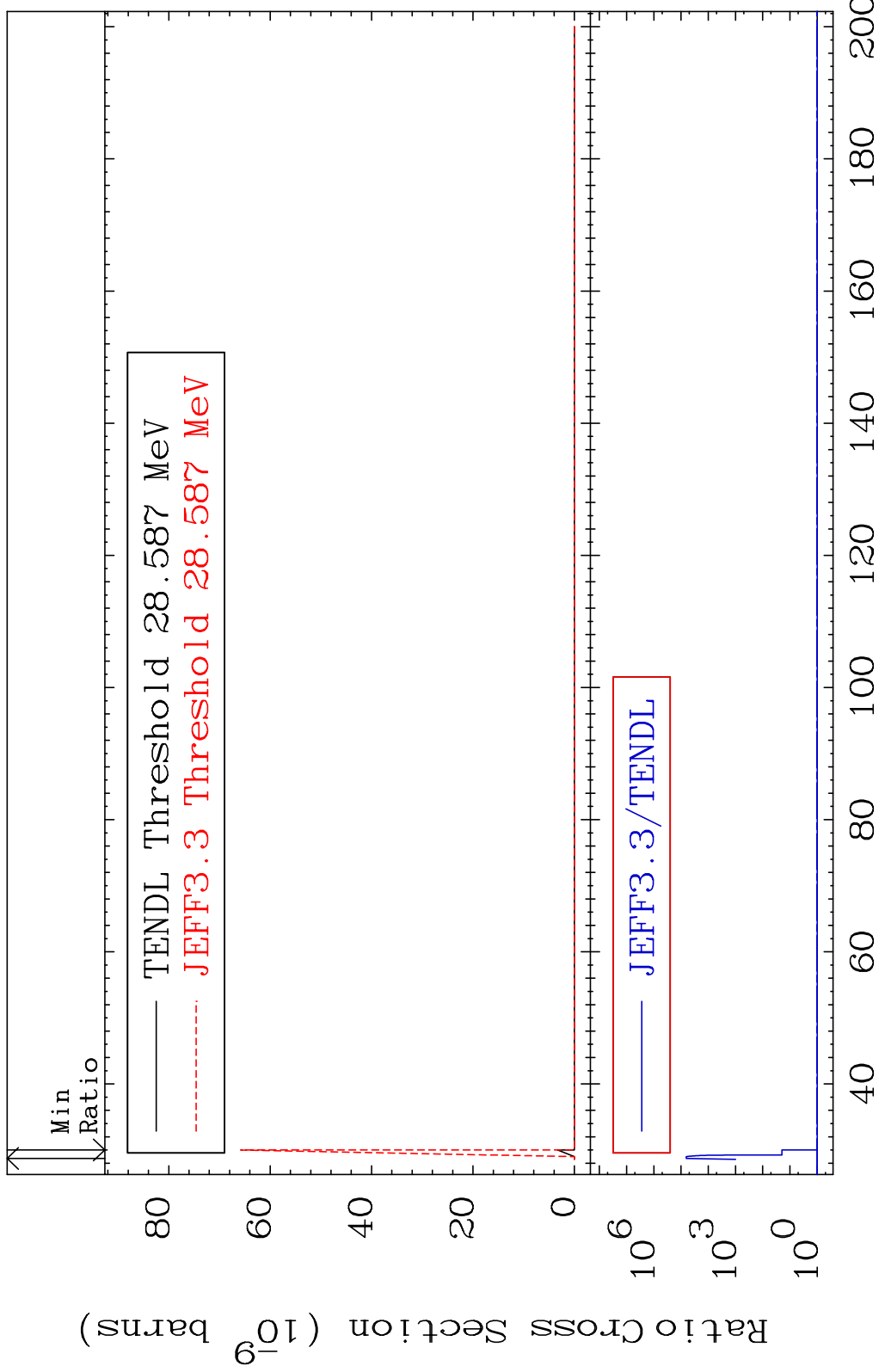
22-Ti-49

MAT 2234 Inelastic ²²Ti-49
 Cross Section -100.0 To 2.043 %

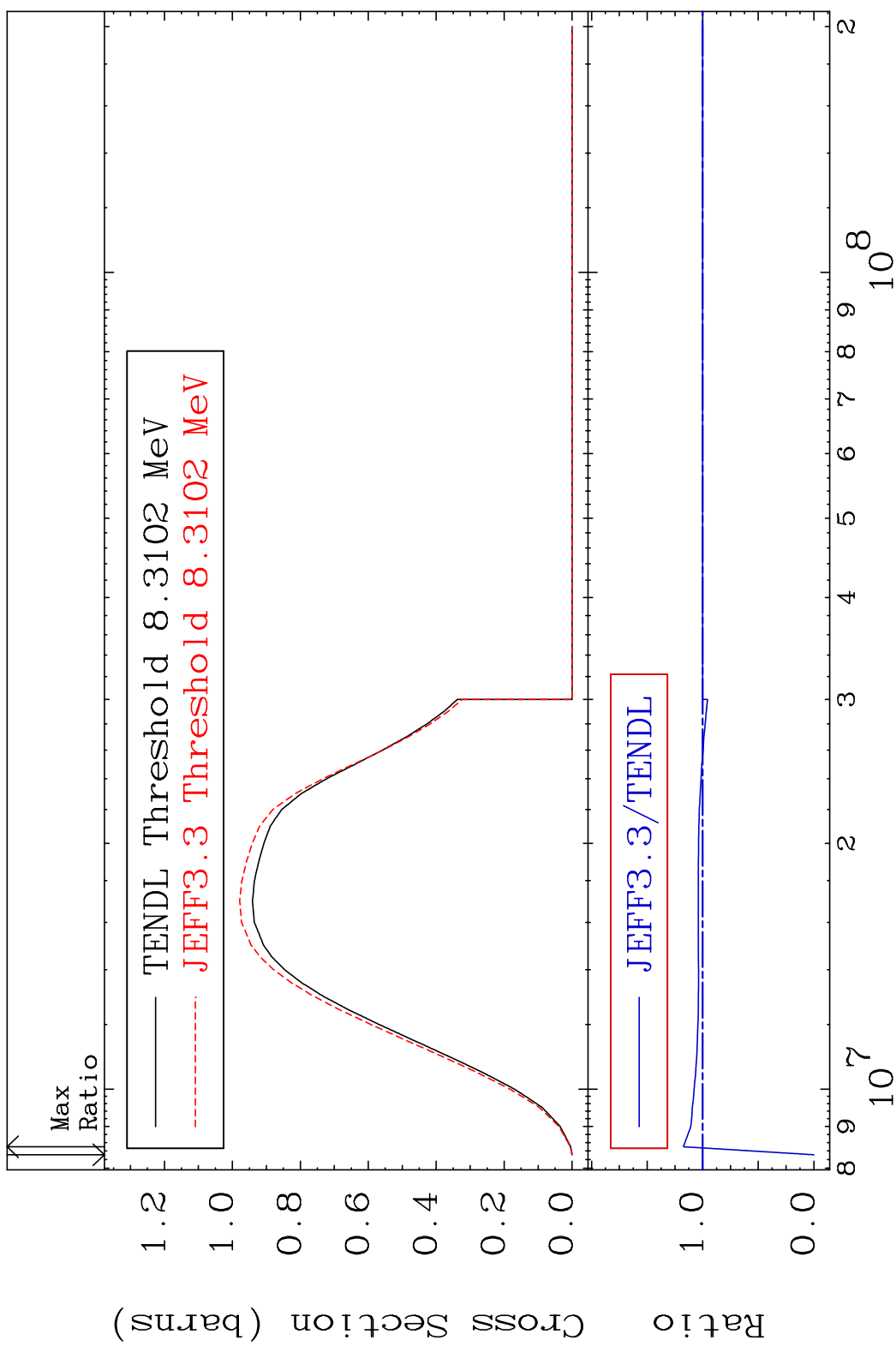


3 Incident Energy (eV) ²²Ti-49

MAT 2234 (n,2n) d 22-Ti-49
 Cross Section 0.000 To 9999. %



MAT 2234 (n,2n) 22-Ti-49
Cross Section -100.0 To 17.34 %



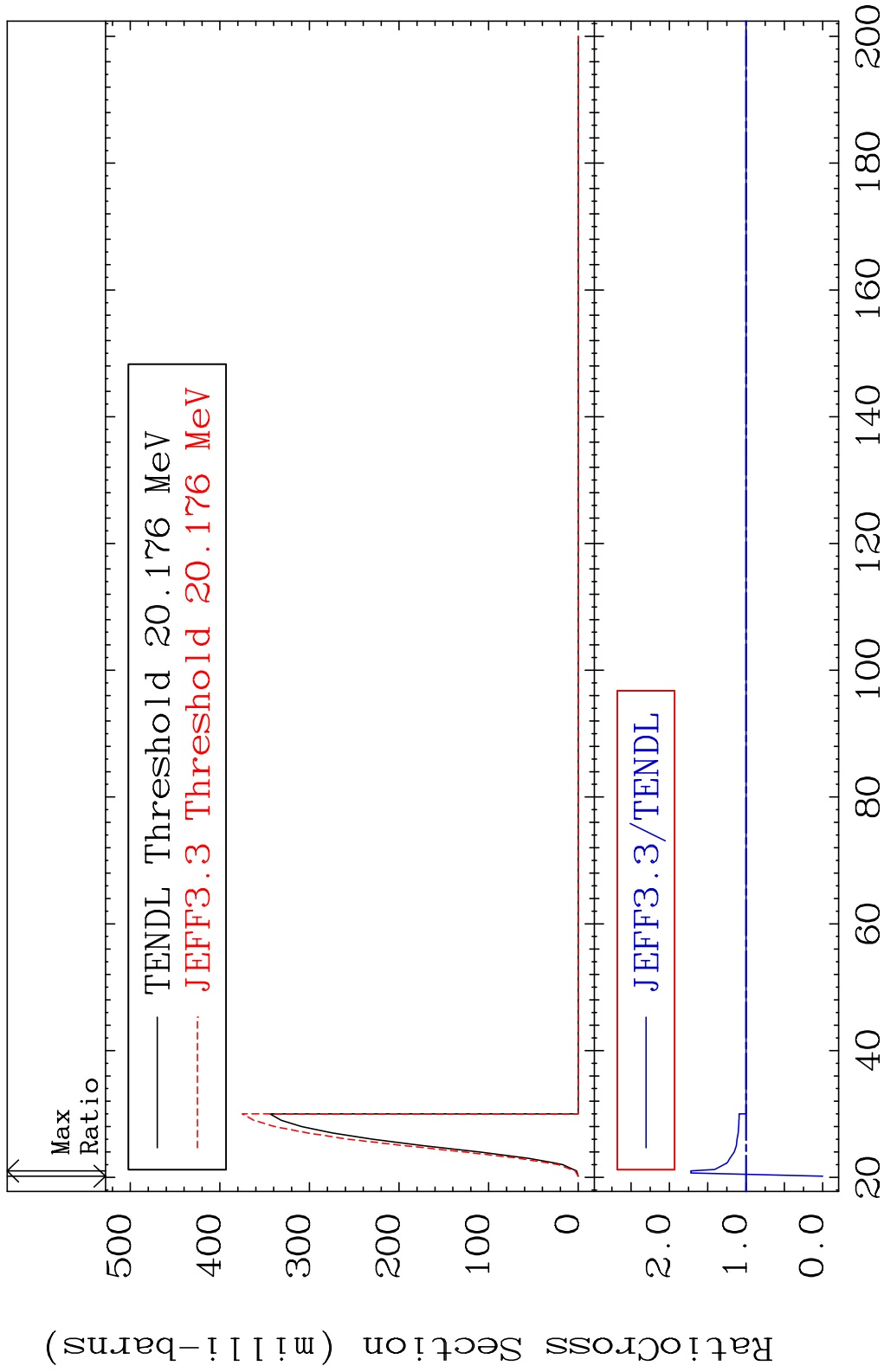
5 Incident Energy (eV) 22-Ti-49

MAT 2234

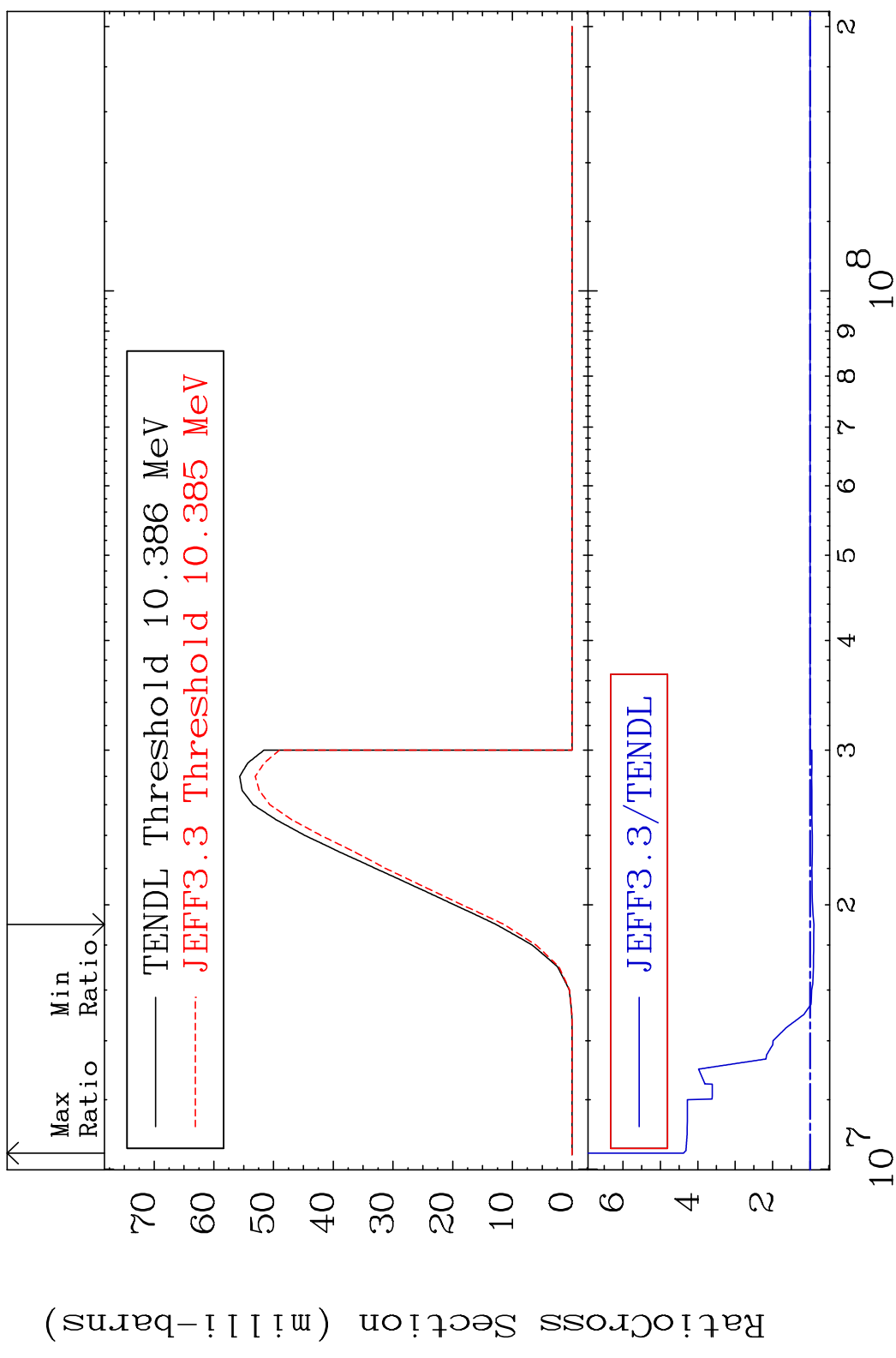
(n,3n)

²²Ti-49

Cross Section -100.0 To 72.05 %

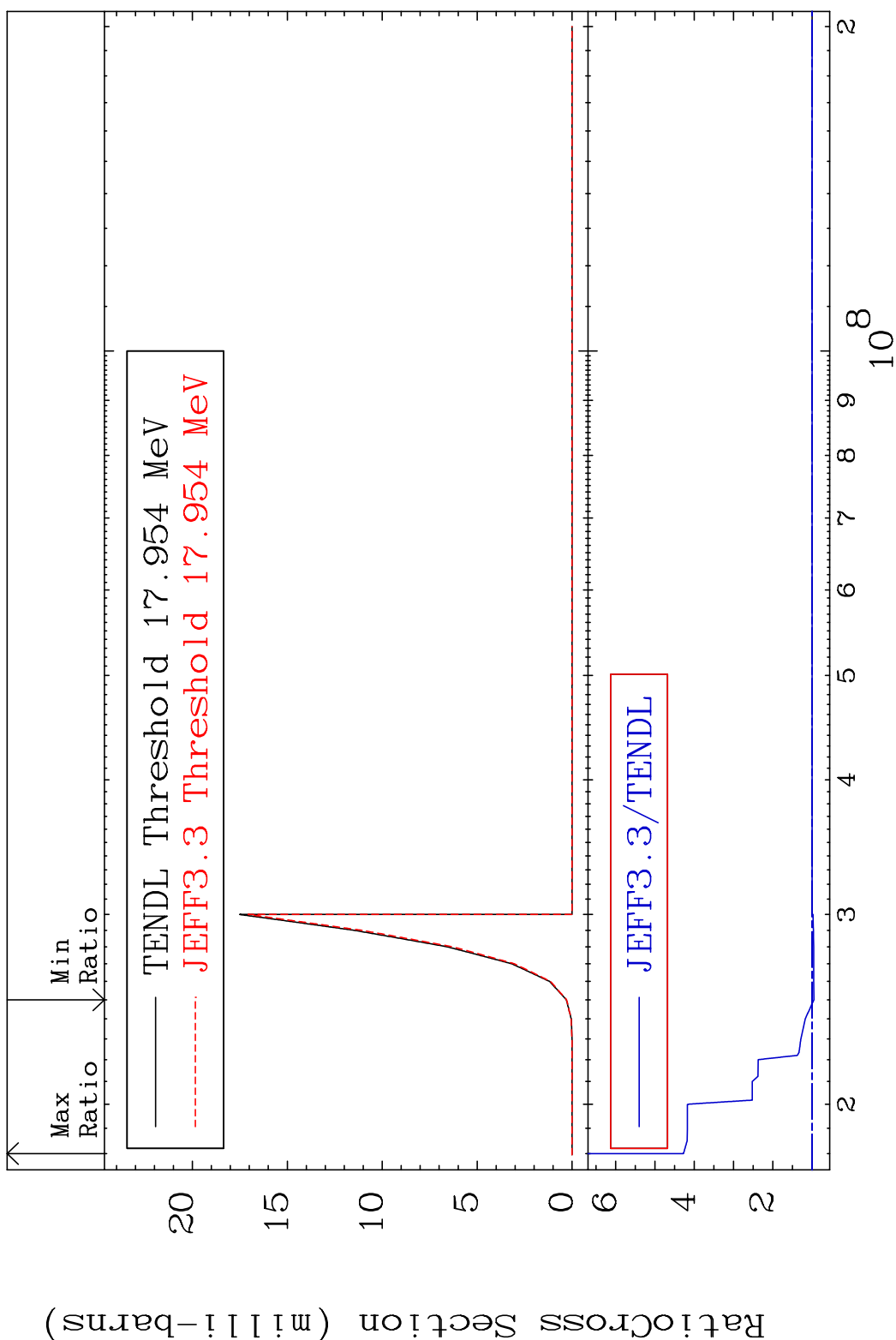


MAT 2234 (n, n') α $^{22}\text{Ti}-49$
 Cross Section -10.38 To 338.3 %



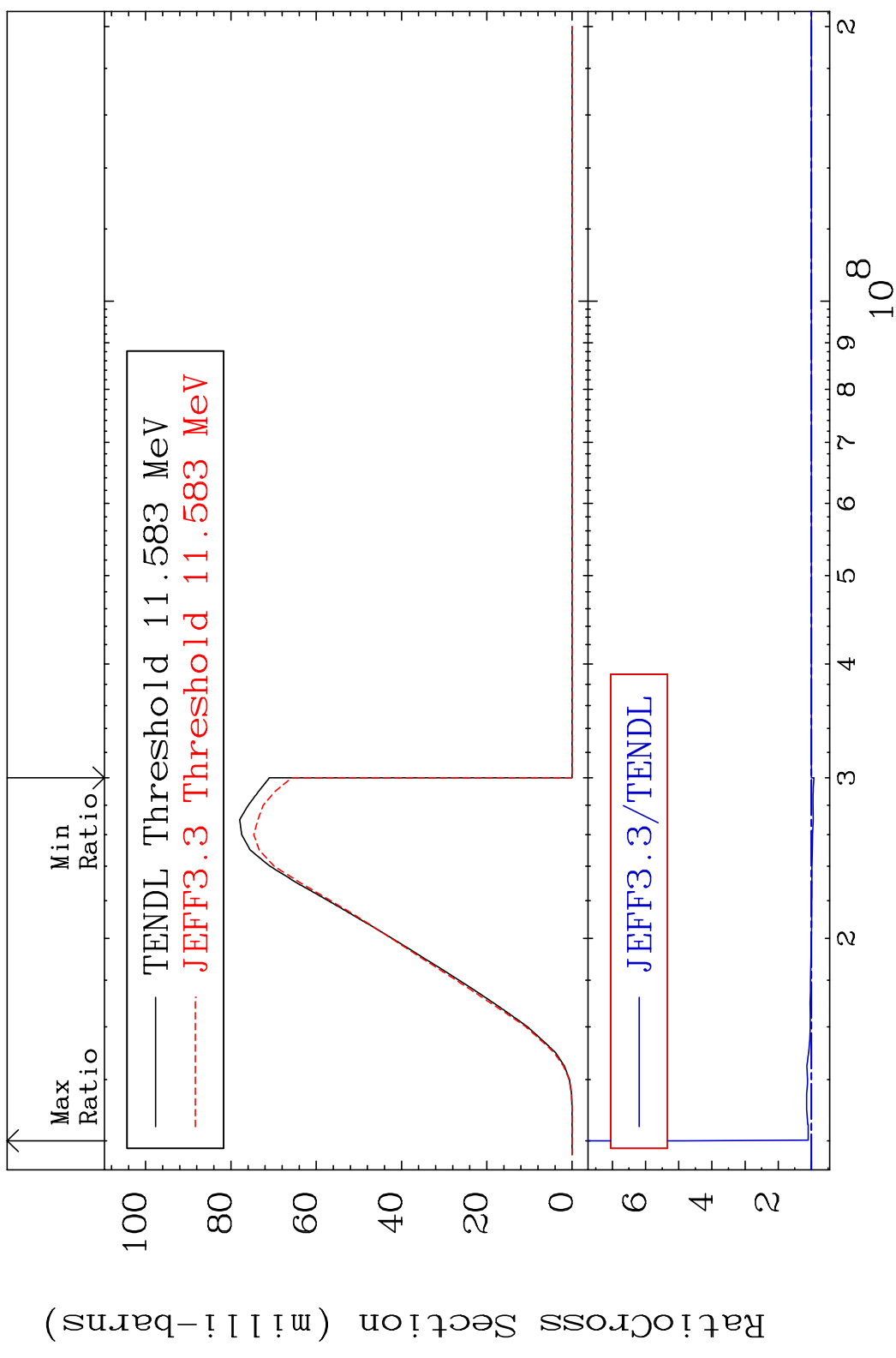
7 7 $^{22}\text{Ti}-49$

MAT 2234 (n,2n) α 22-Ti-49
 Cross Section -4.708 To 327.3 %



8 22-Ti-49

MAT 2234 (n, n') p 22-Ti-49
 Cross Section -7.378 To 385.8 %



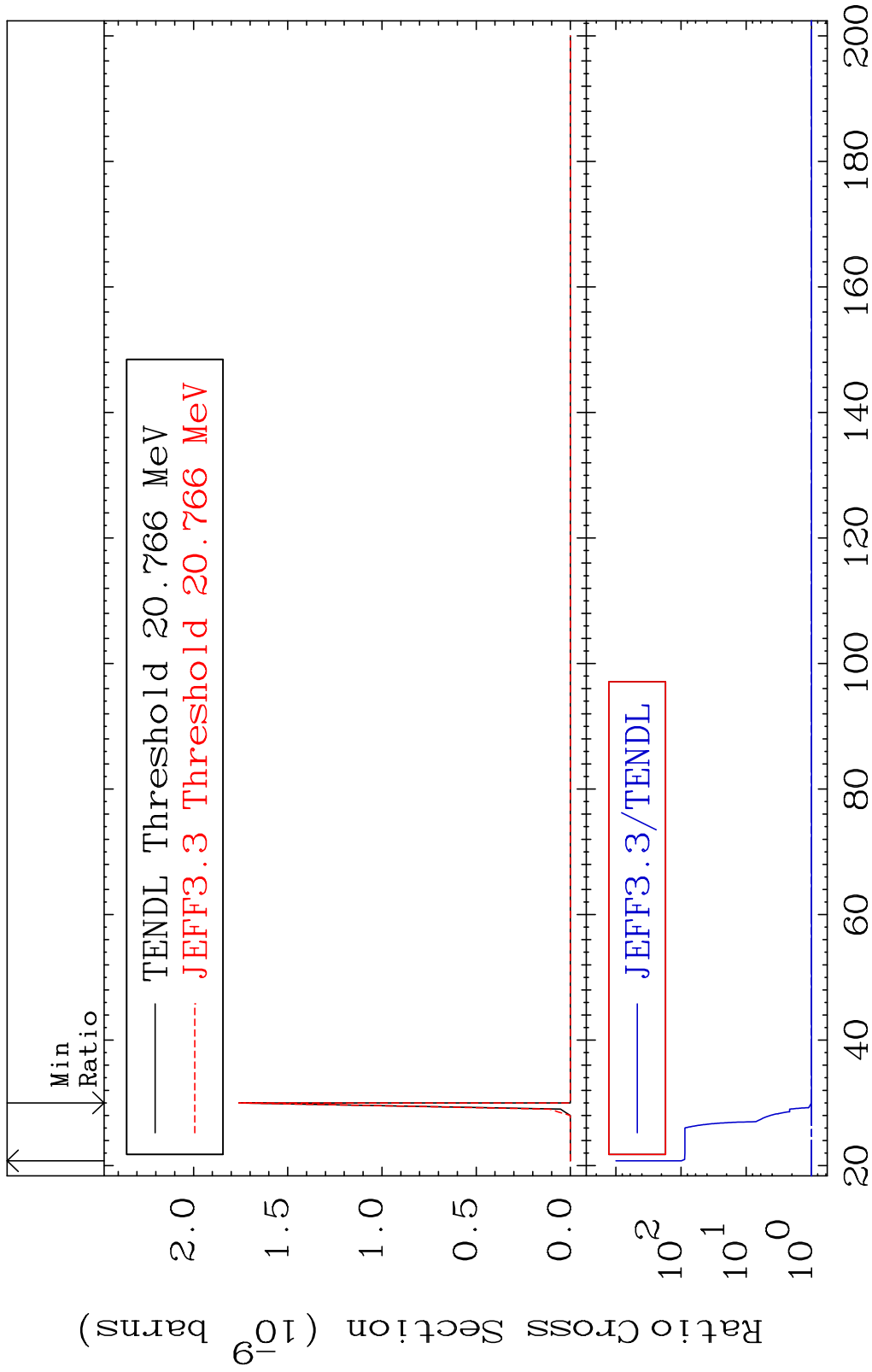
9 Incident Energy (eV) 22-Ti-49

MAT 2234

(n, n') 2 α

22-Ti-49

Cross Section -0.058 To 9769. %

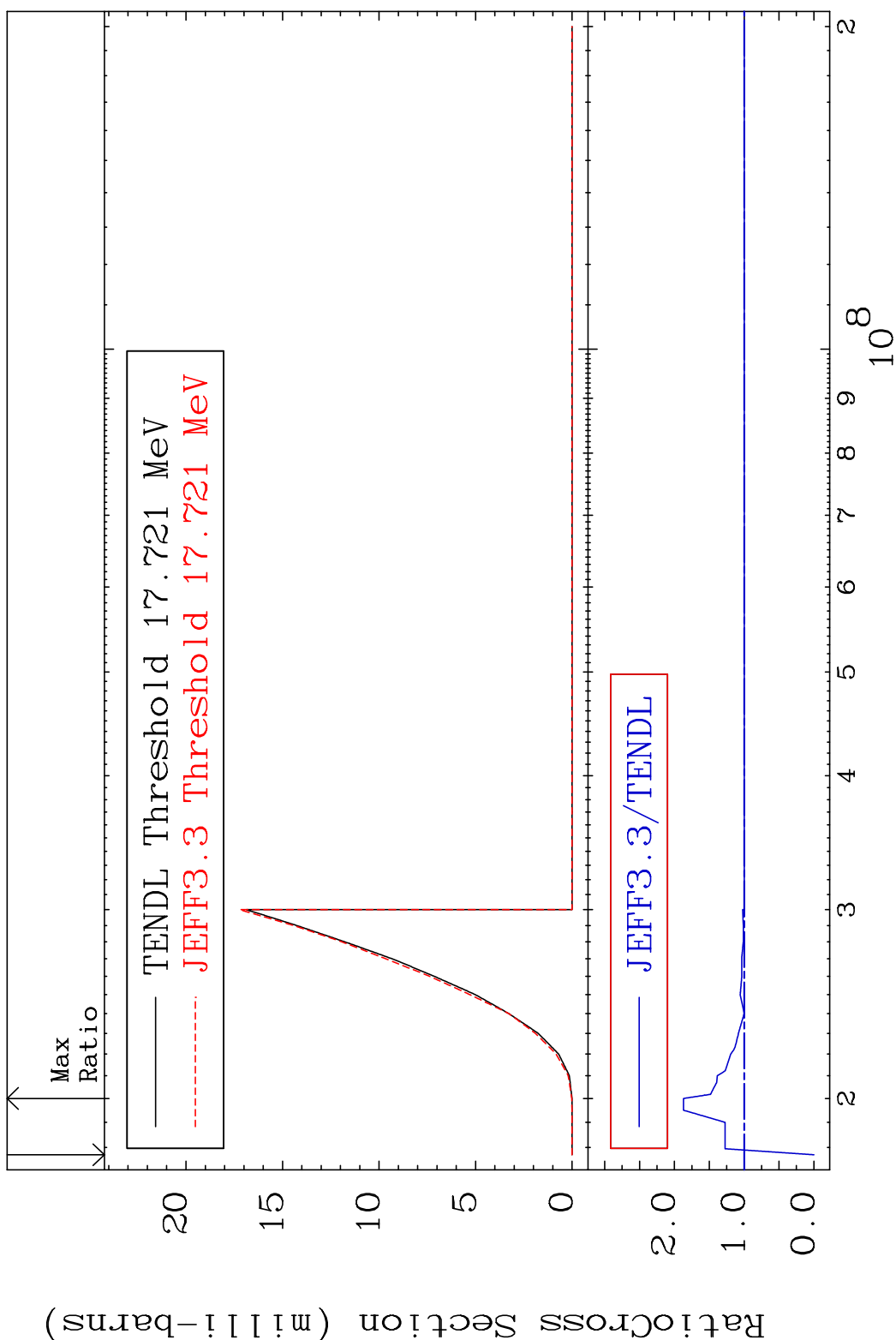


22-Ti-49

Incident Energy (MeV)

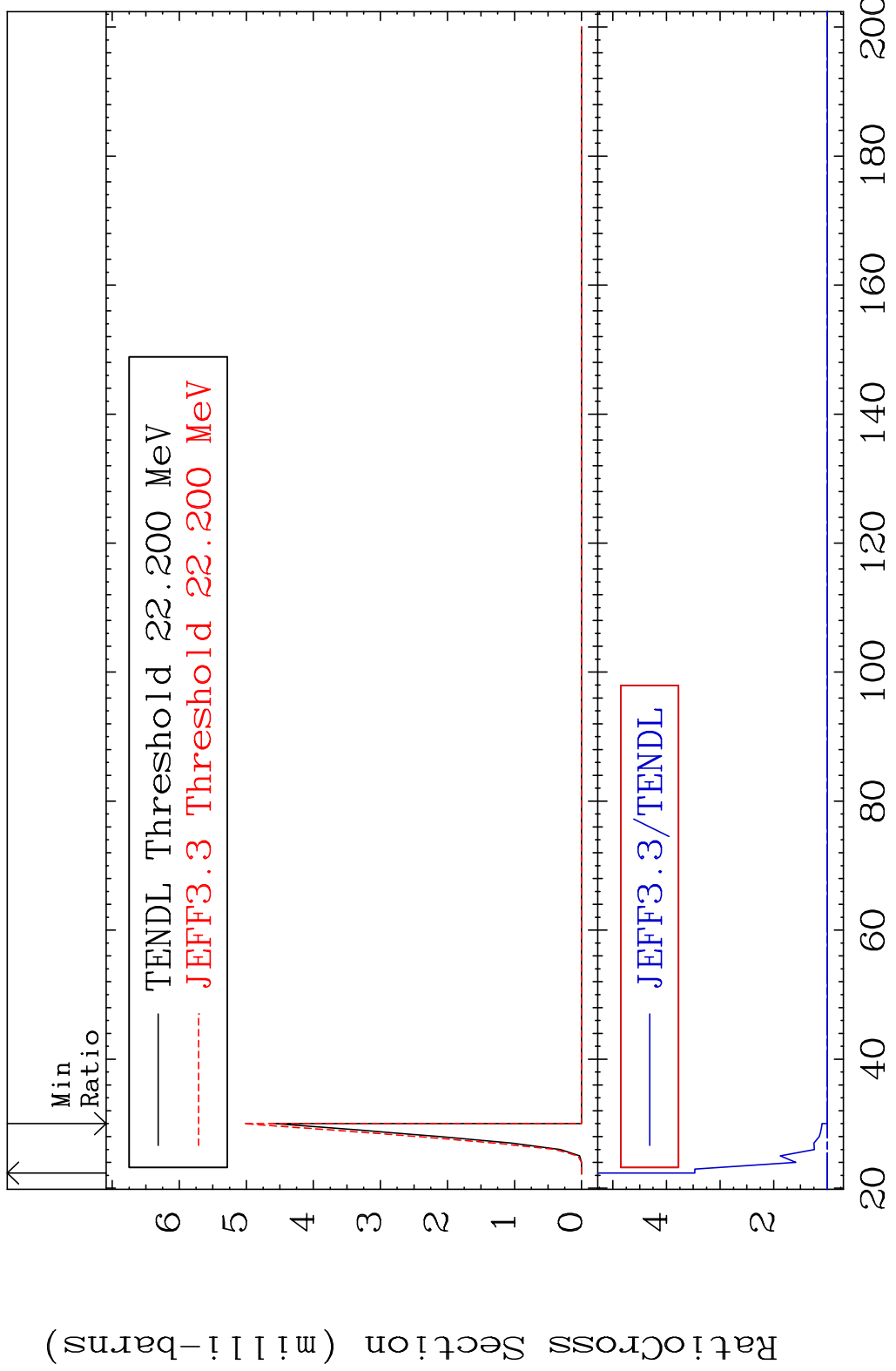
10

MAT 2234 (n, n') d 22-Ti-49
 Cross Section -100.0 To 87.02 %



11 Incident Energy (eV) 22-Ti-49

MAT 2234 (n, n') t 22-Ti-49
Cross Section 0.000 To 247.2 %



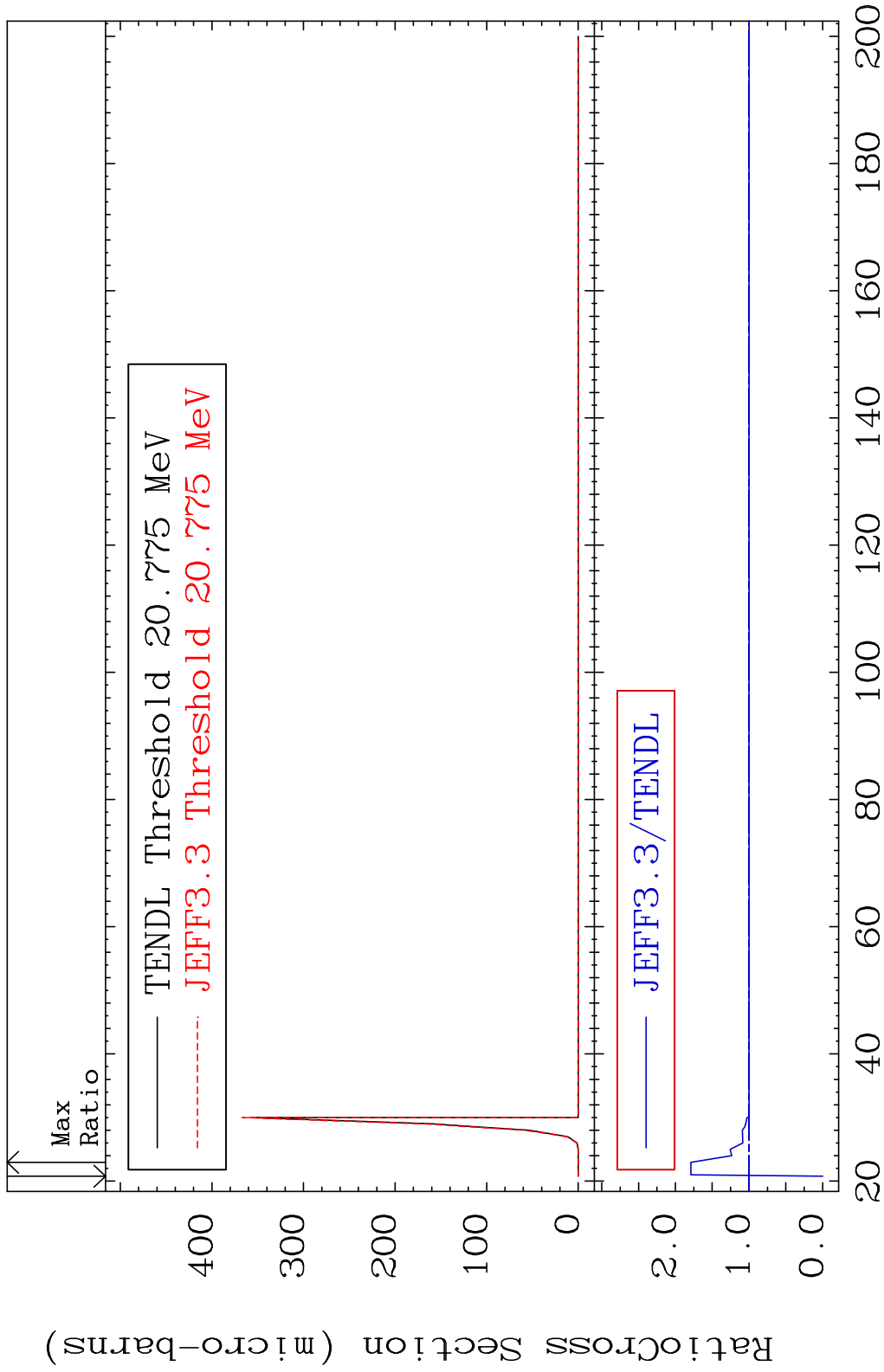
12 22-Ti-49

MAT 2234

(n, n') He-3

²²Ti-49

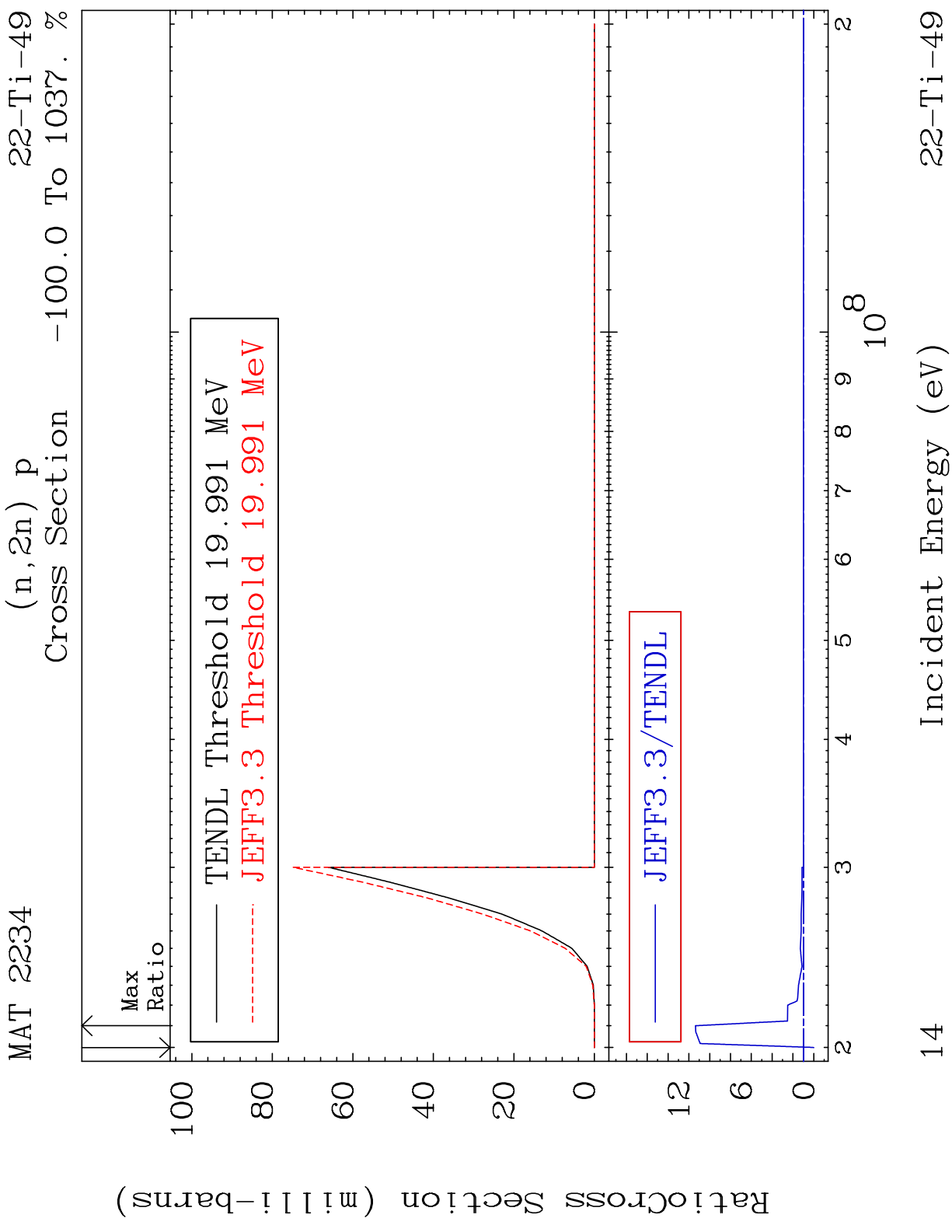
Cross Section -100.0 To 79.03 %



13

Incident Energy (MeV)

²²Ti-49

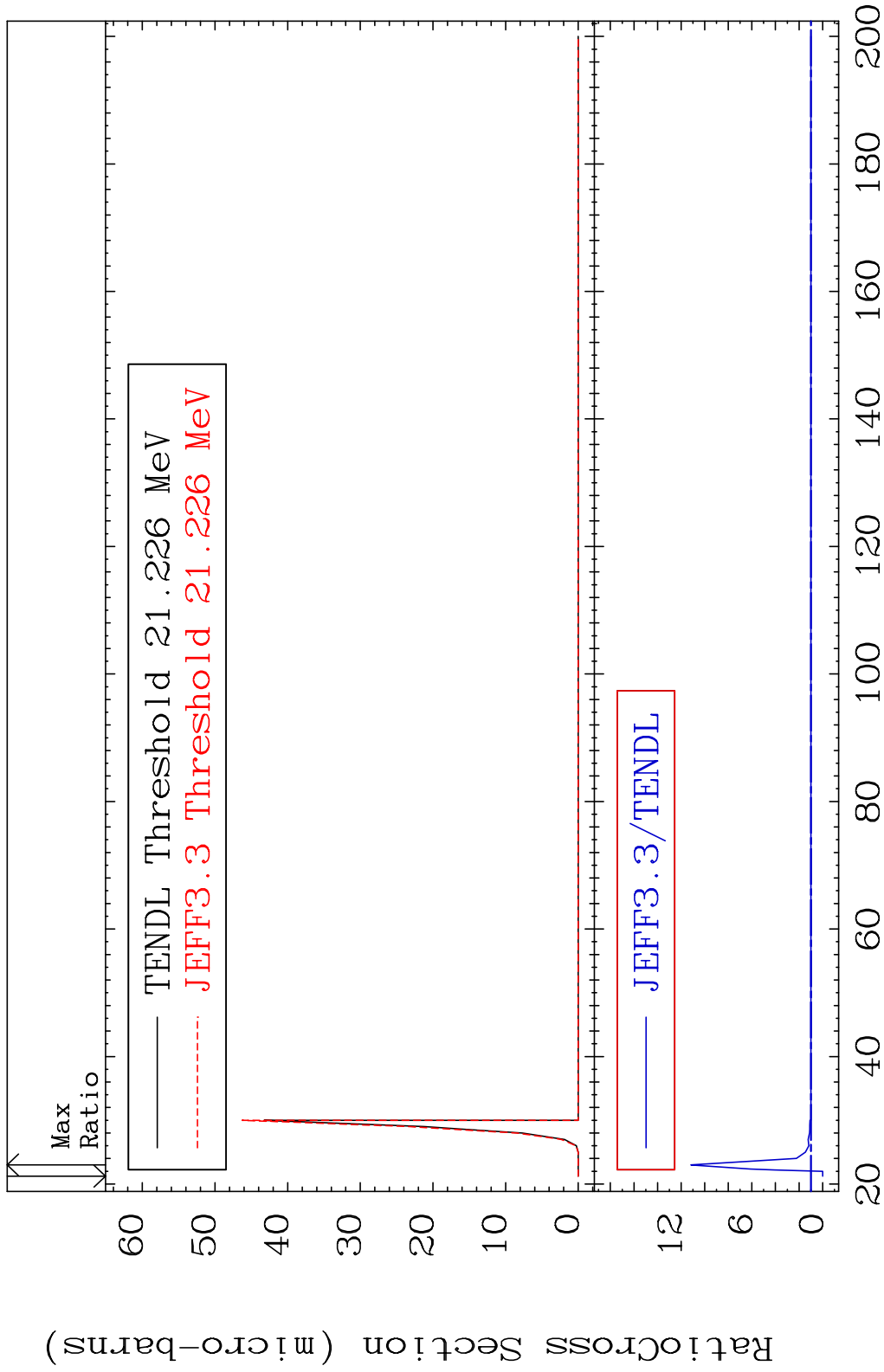


MAT 2234

(n, 2n) p

²²Ti-49

Cross Section -100.0 To 1018. %

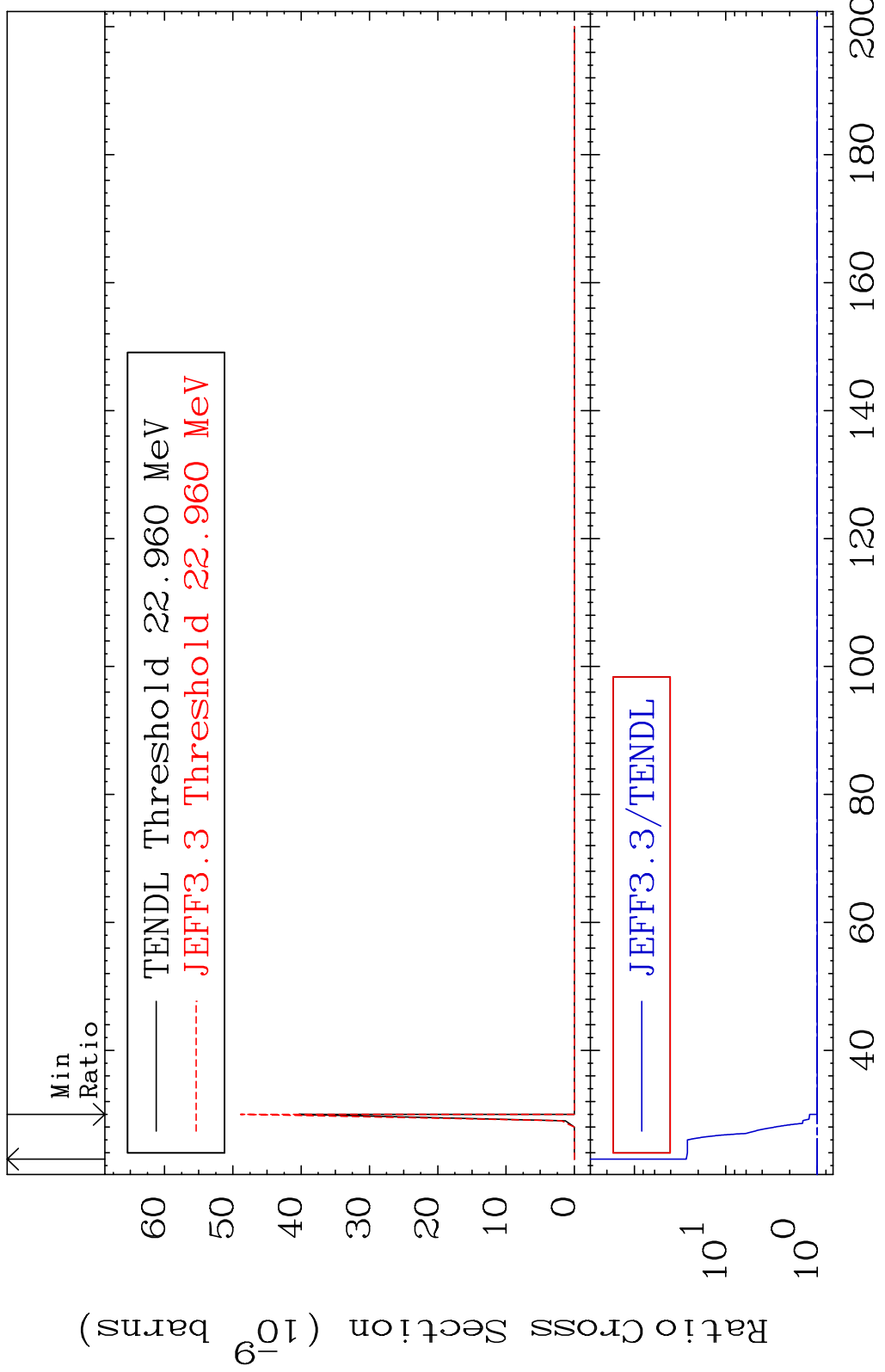


15

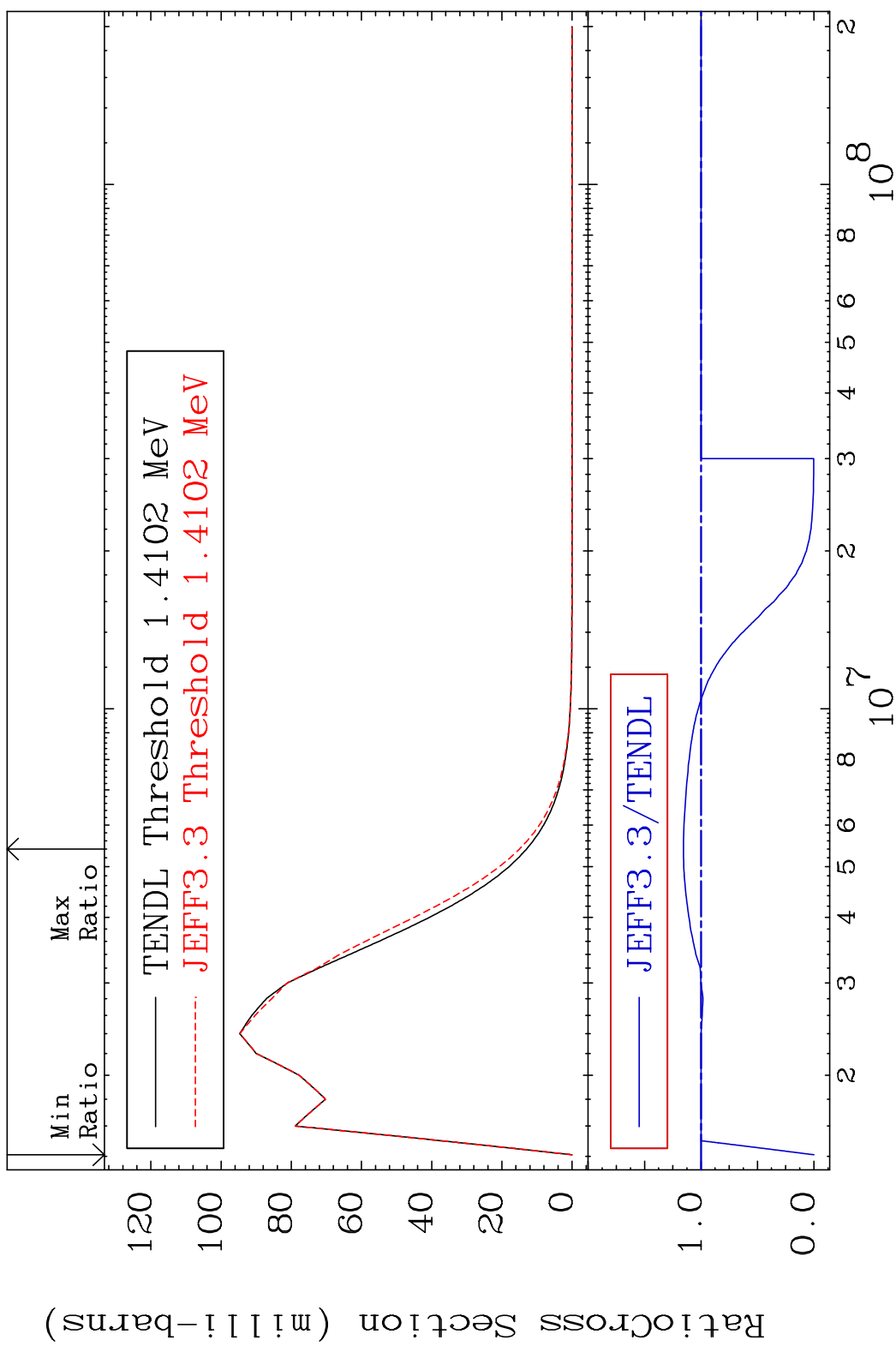
Incident Energy (MeV)

²²Ti-49

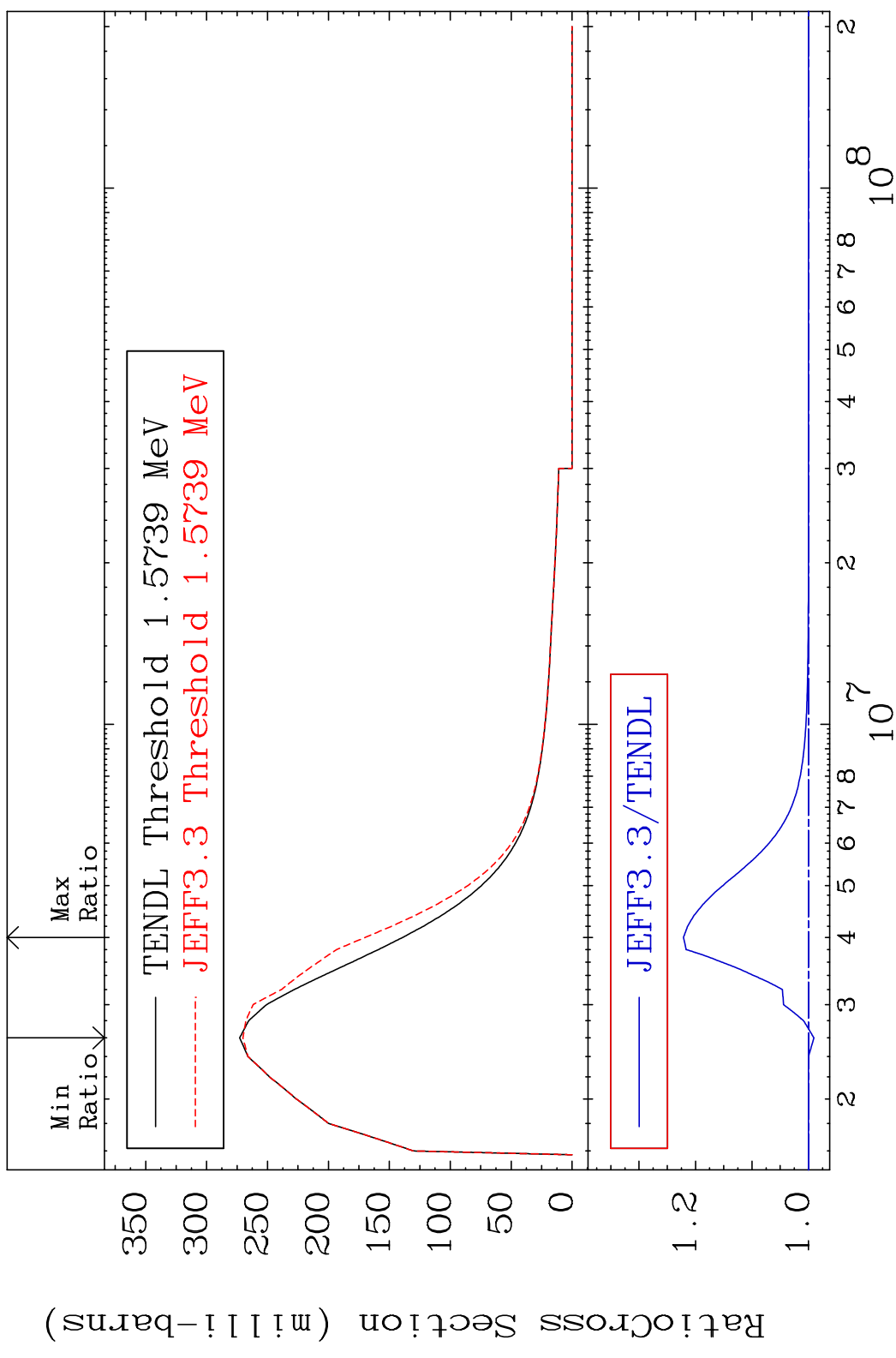
MAT 2234 (n, n') p α 22-Ti-49
Cross Section 0.000 To 2607. %



MAT 2234 MT= 51 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 15.53 %

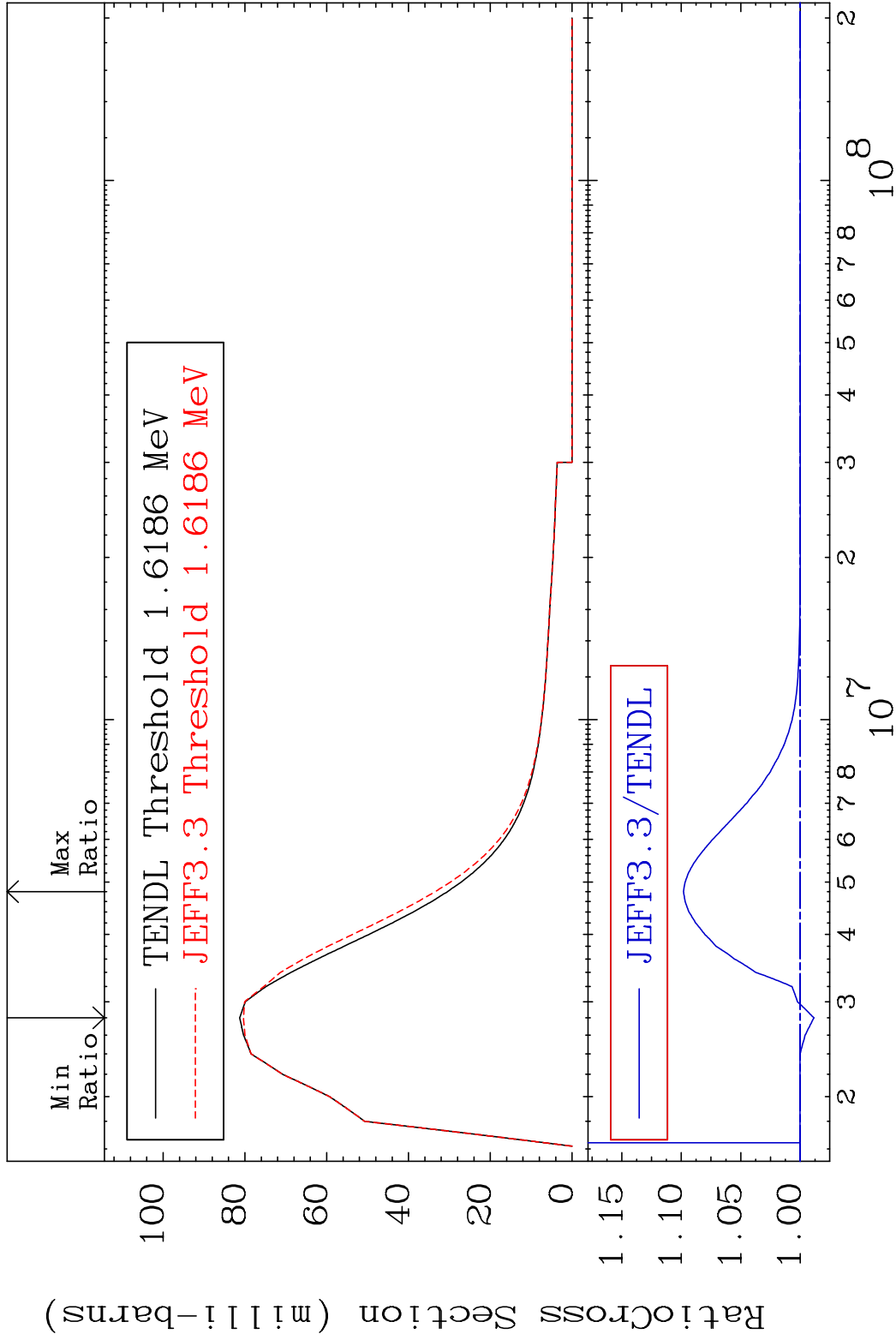


MAT 2234 MT= 52 (n, n') Level 22-Ti-49
 Cross Section -0.966 To 22.13 %



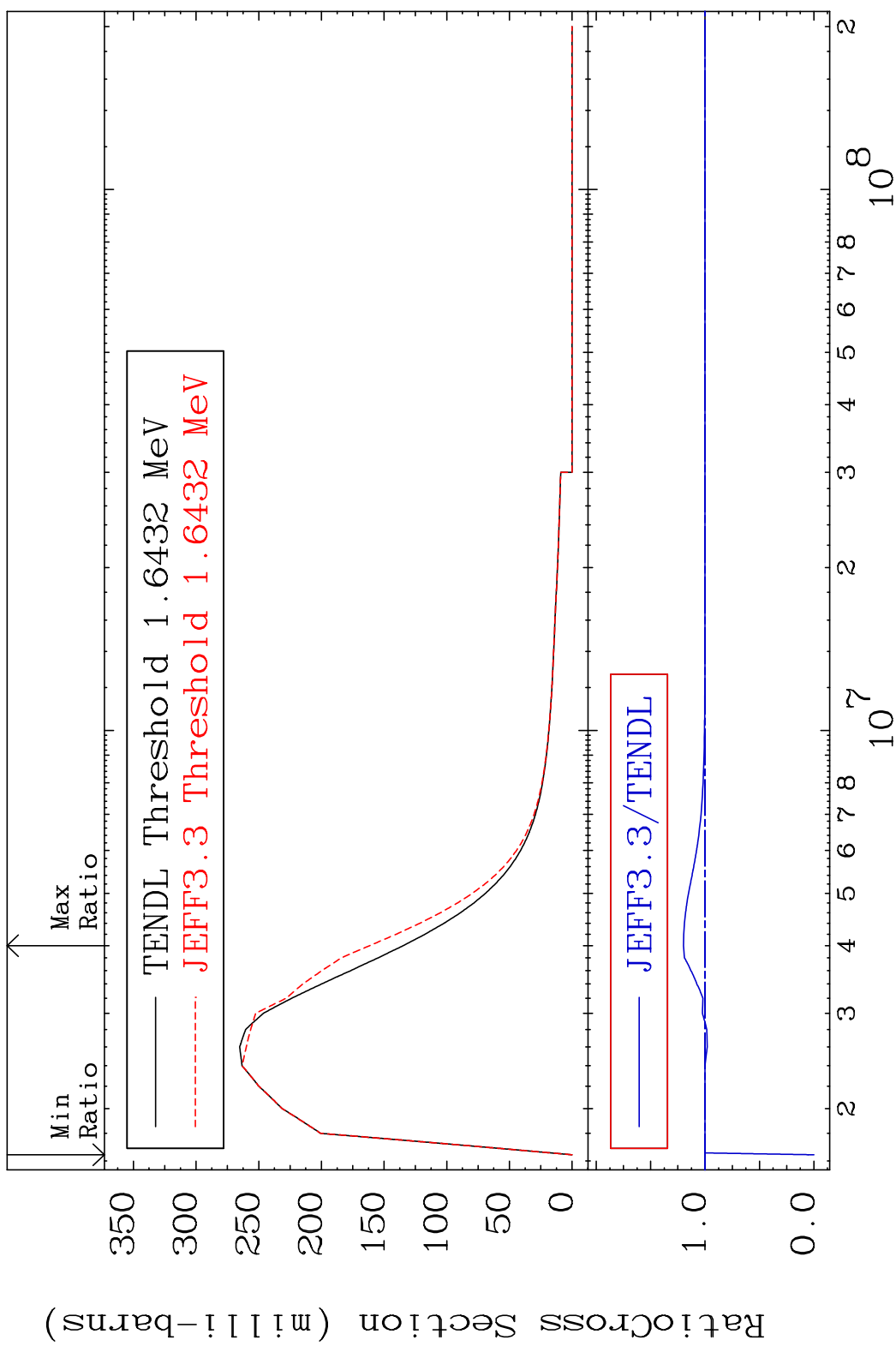
18 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 53 (n, n') Level 22-Ti-49
 Cross Section -1.150 To 9.818 %



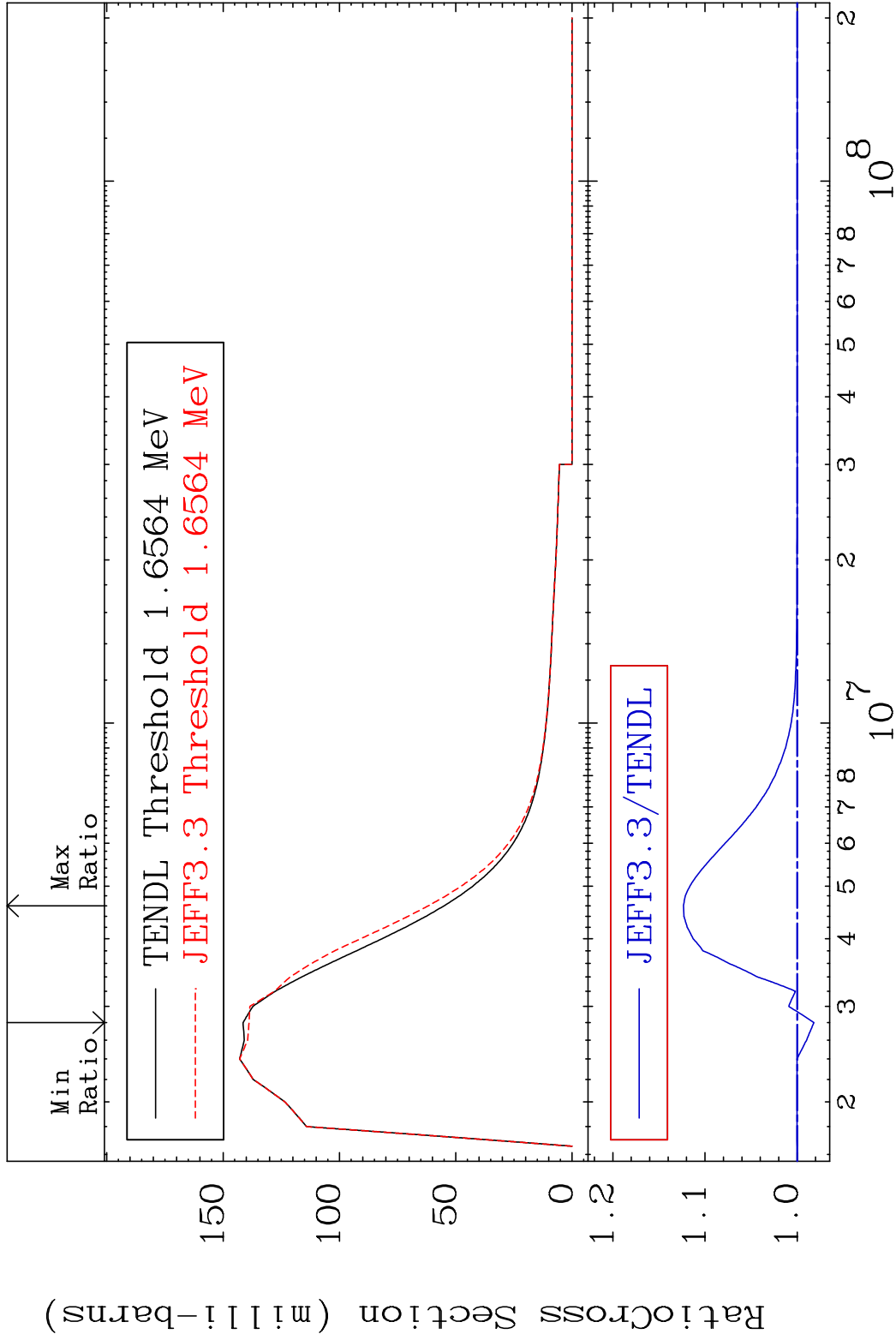
19 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 54 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 19.85 %



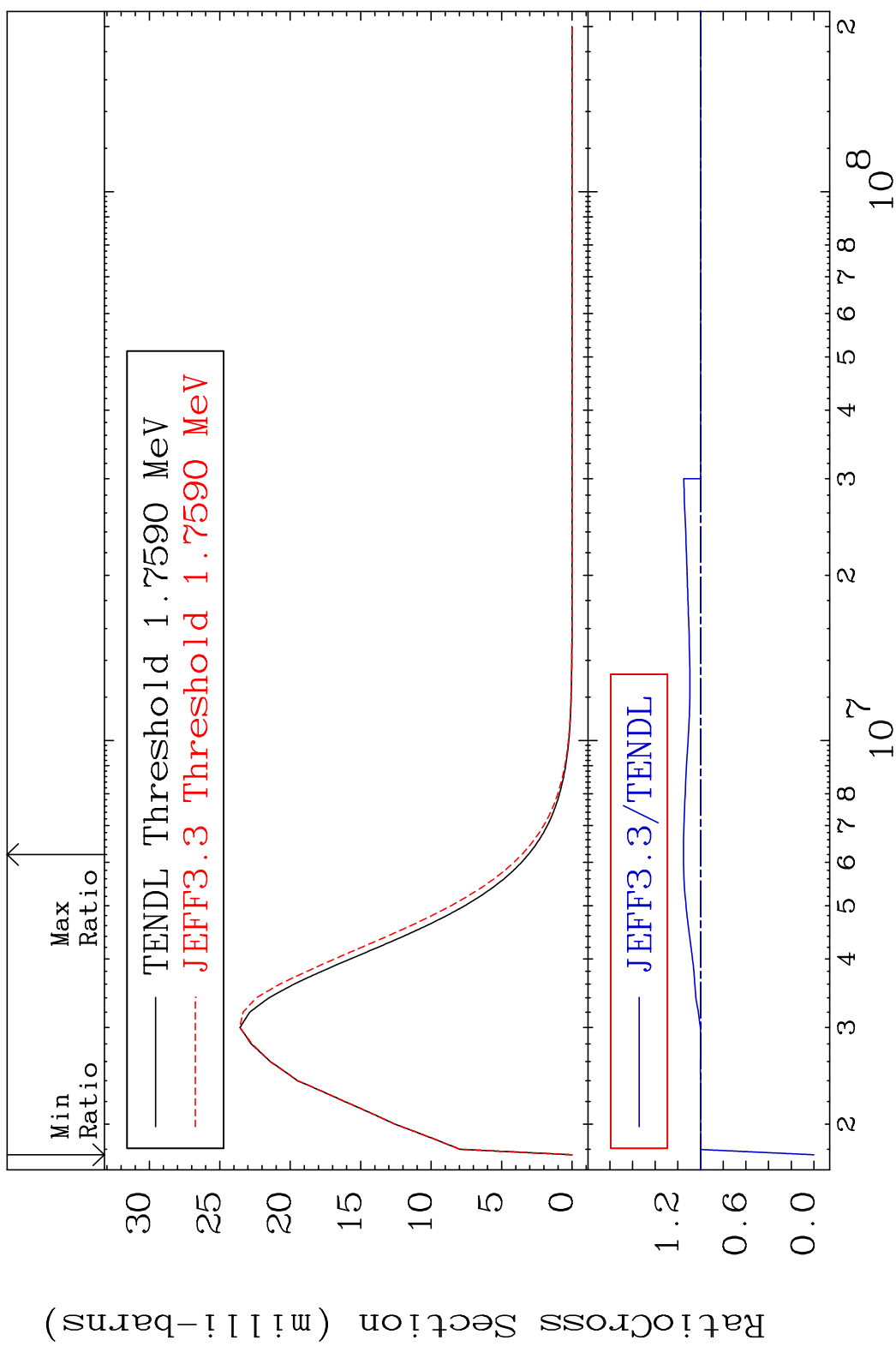
20 22-Ti-49

MAT 2234 MT= 55 (n, n') Level 22-Ti-49
 Cross Section -1.815 To 12.34 %



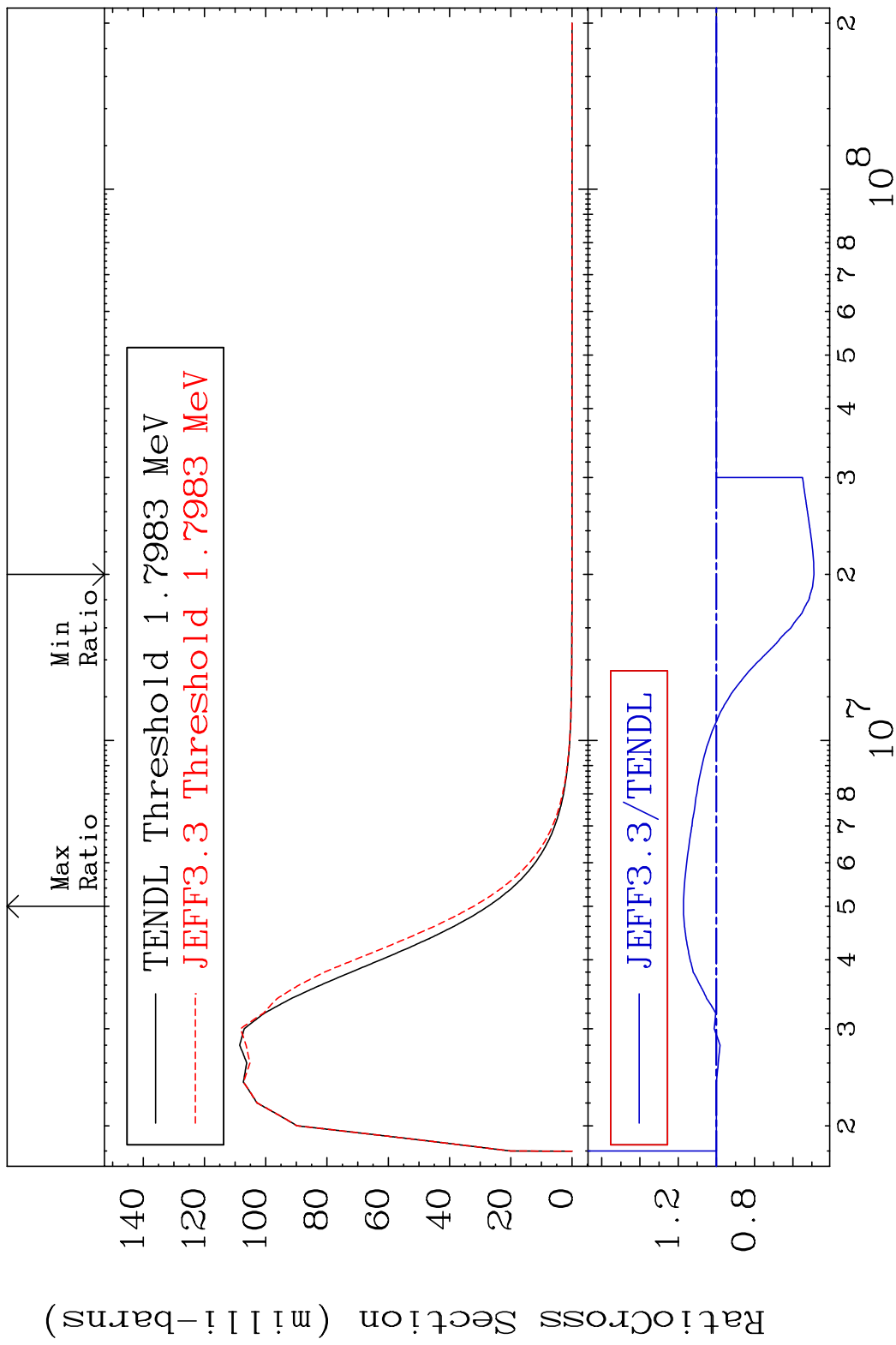
21 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 56 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 15.09 %



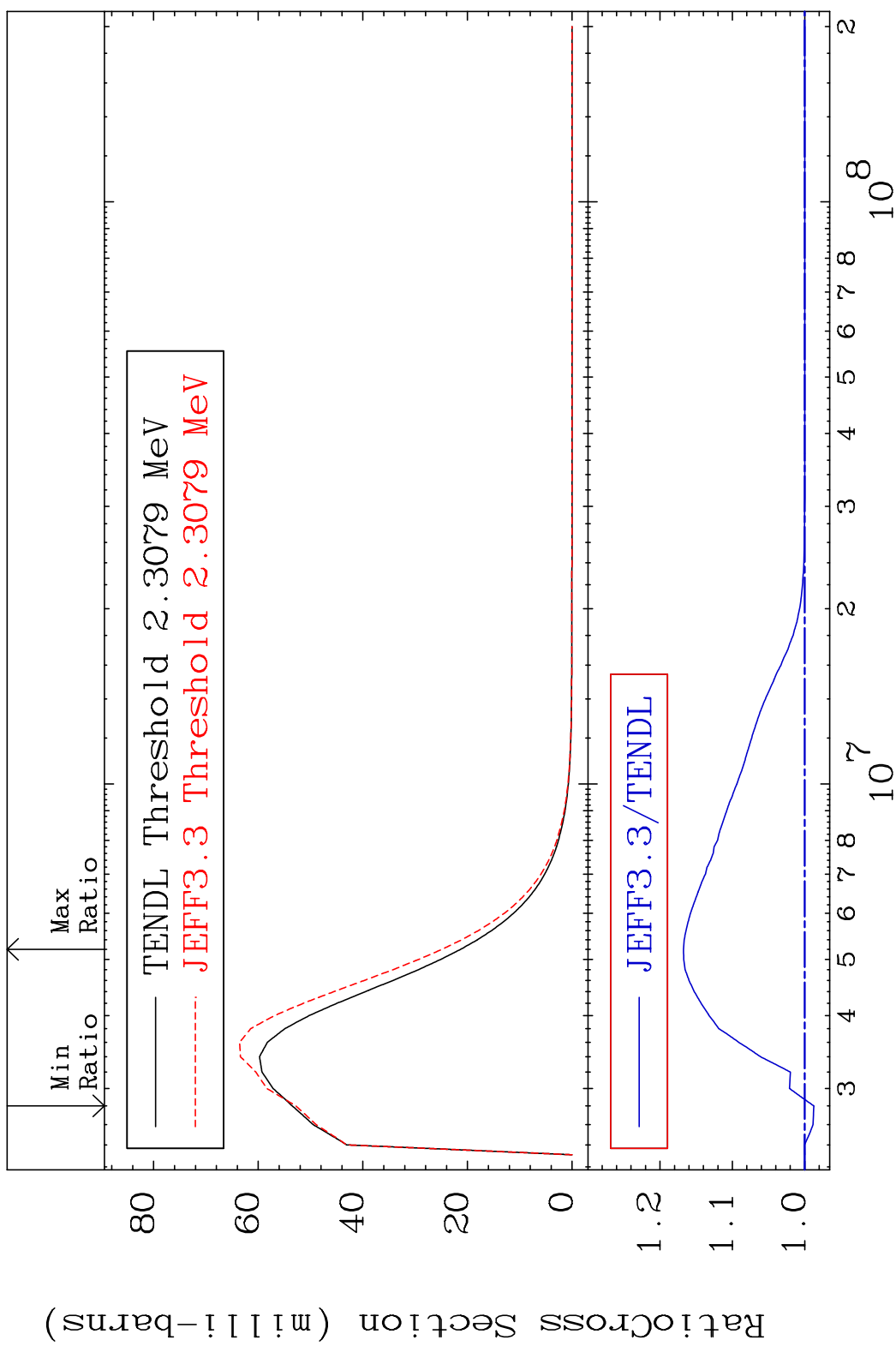
22 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 57 (n, n') Level 22-Ti-49
 Cross Section -51.00 To 17.22 %

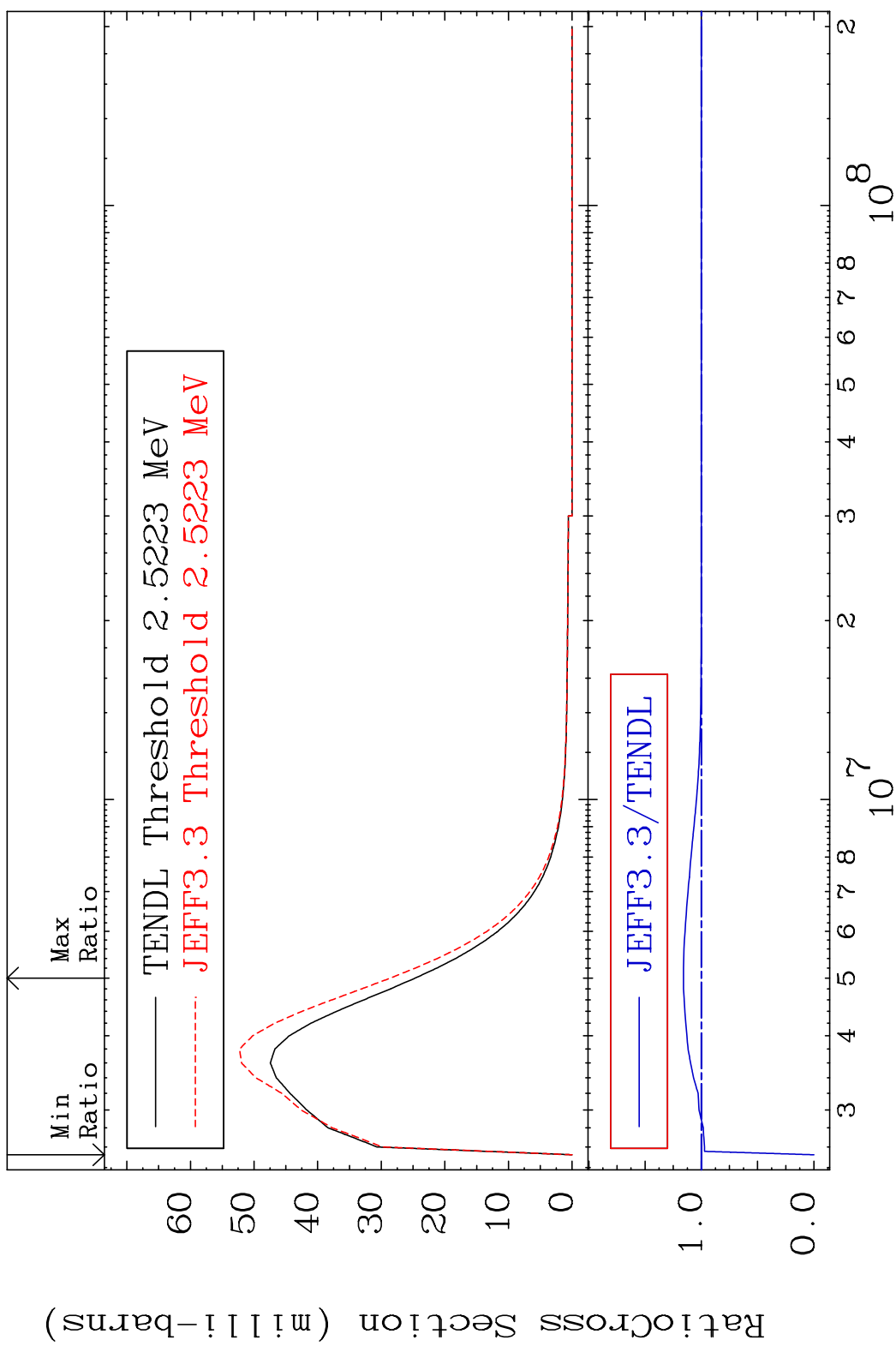


23 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 58 (n, n') Level 22-Ti-49
 Cross Section -1.270 To 16.76 %

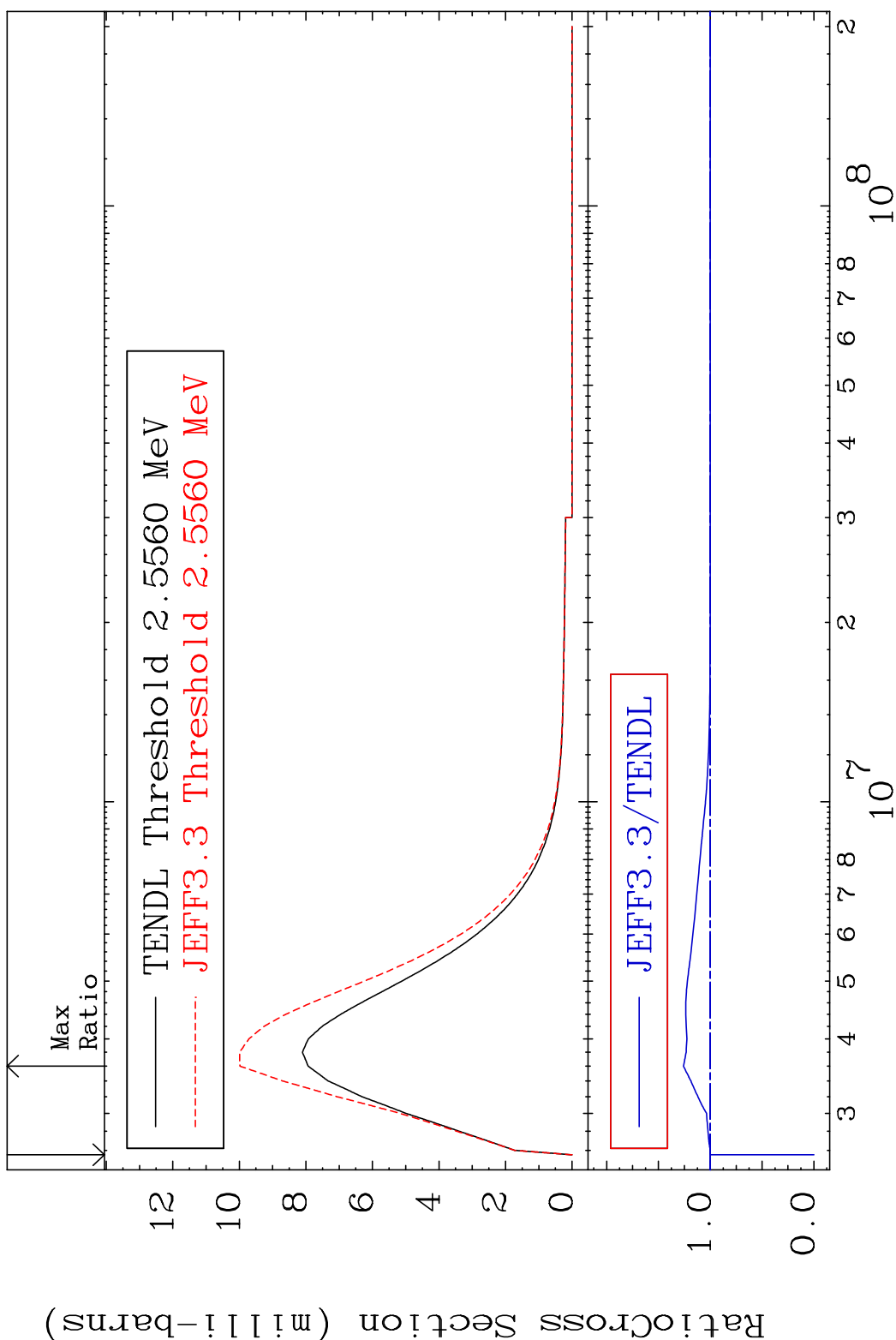


MAT 2234 MT= 59 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 15.91 %

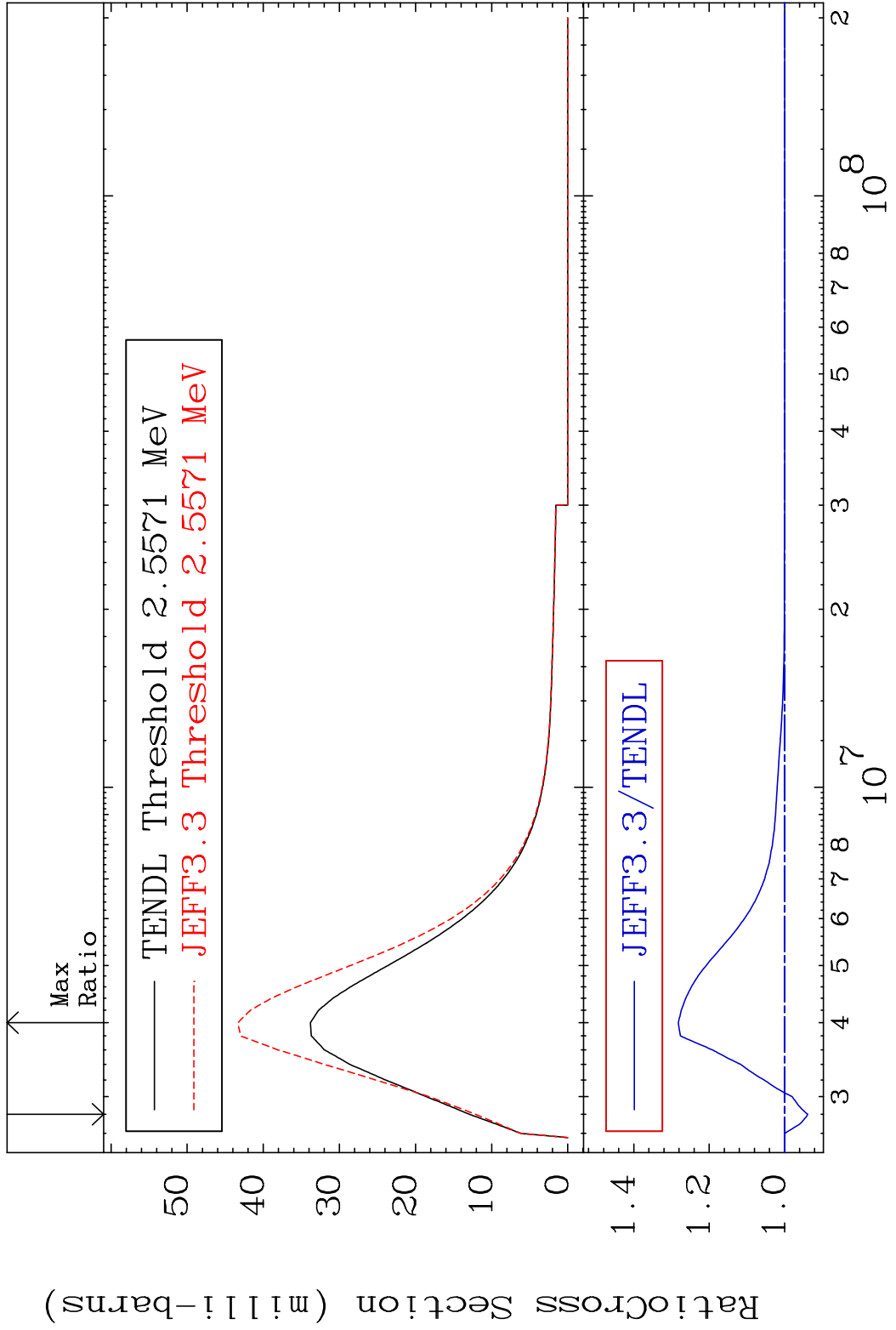


25 22-Ti-49

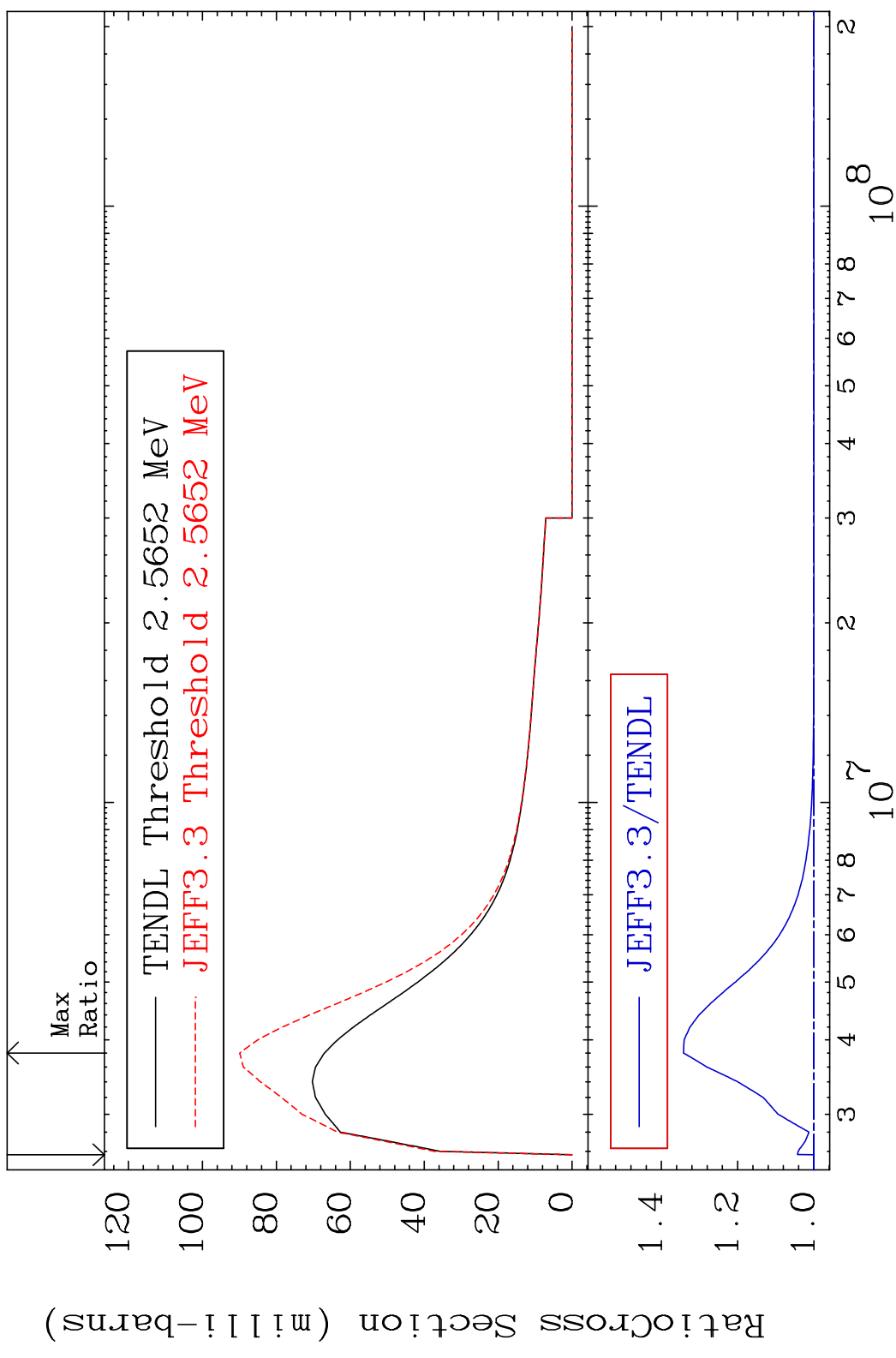
MAT 2234 MT= 60 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 25.88 %



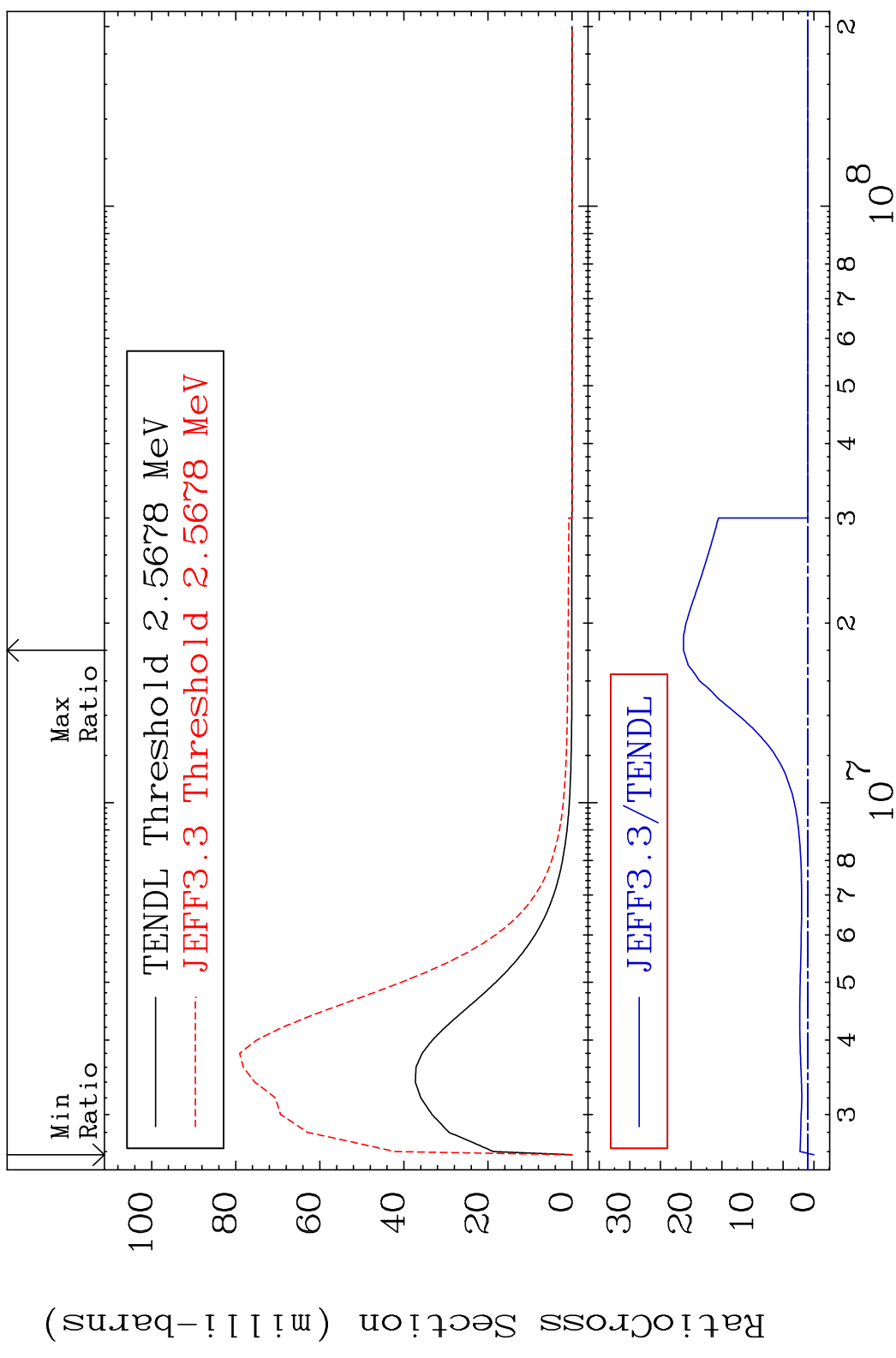
MAT 2234 MT= 61 (n, n') Level 22-Ti-49
 Cross Section -6.152 To 28.20 %



MAT 2234 MT= 62 (n, n') Level 22-Ti-49
 Cross Section 0.000 To 34.22 %

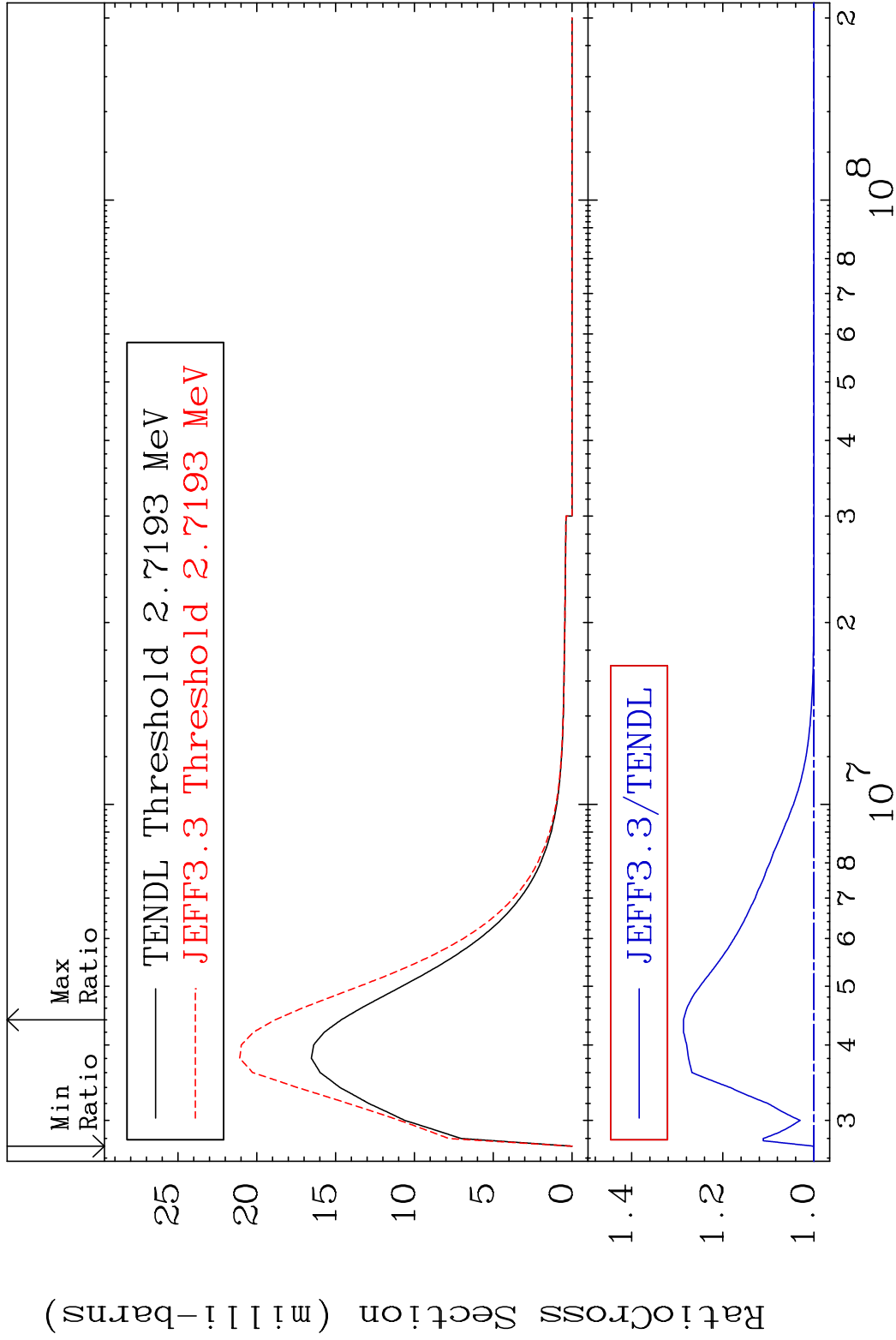


MAT 2234 MT= 63 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 2025. %



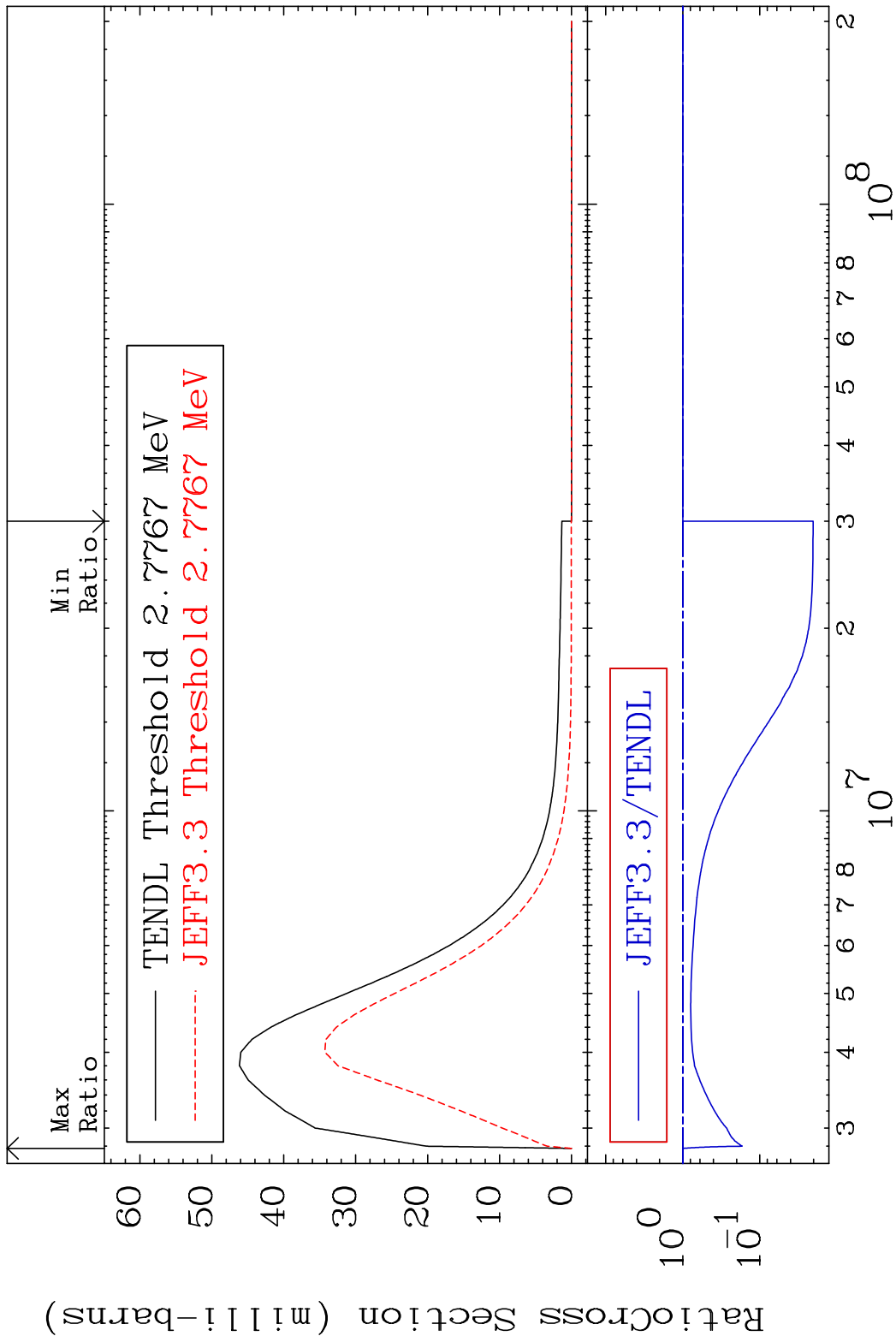
29 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 64 (n, n') Level 22-Ti-49
 Cross Section 0.000 To 28.64 %



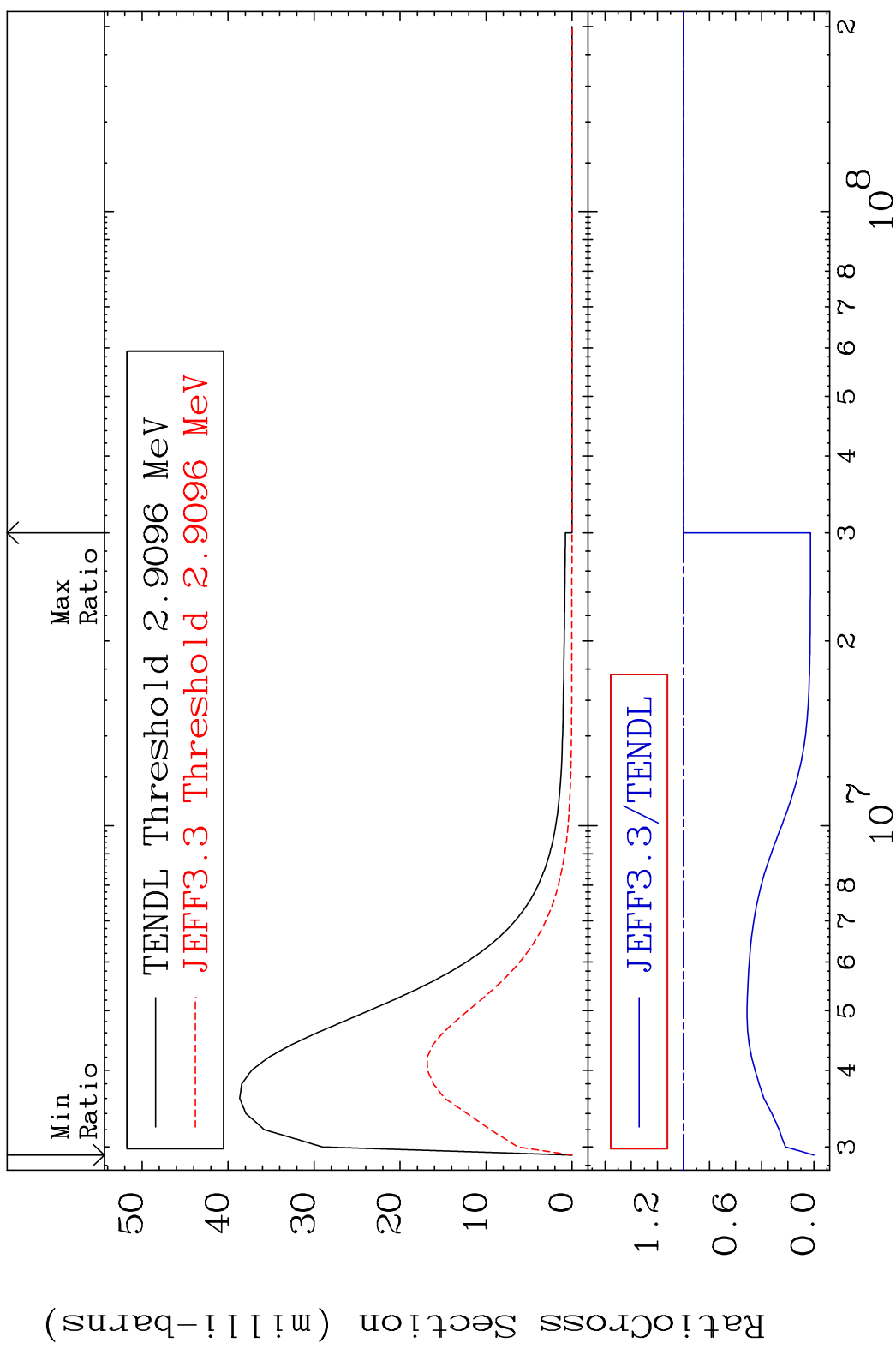
30 Incident Energy (eV) 22-Ti-49

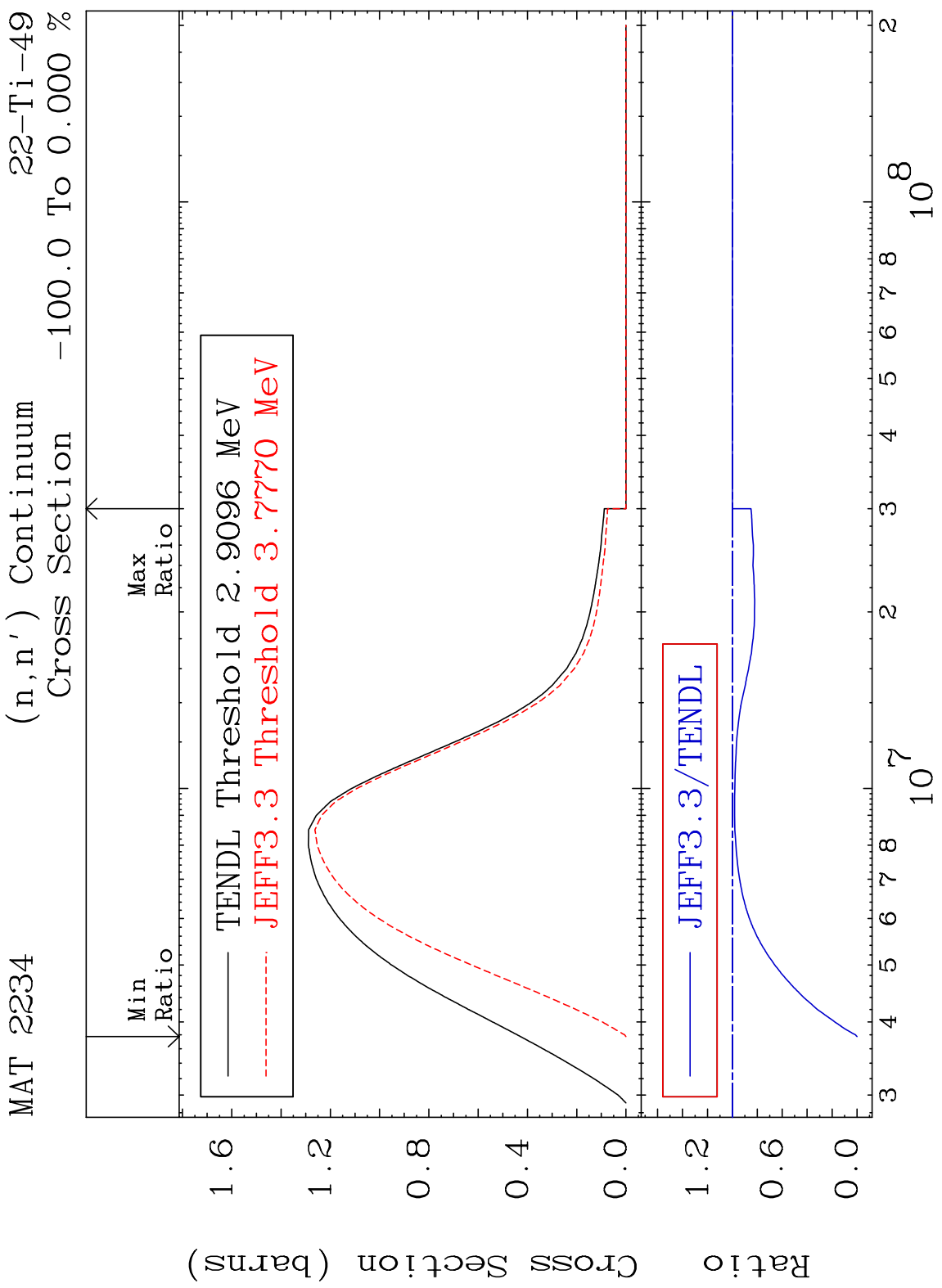
MAT 2234 MT= 65 (n, n') Level 22-Ti-49
 Cross Section -97.96 To 0.000 %

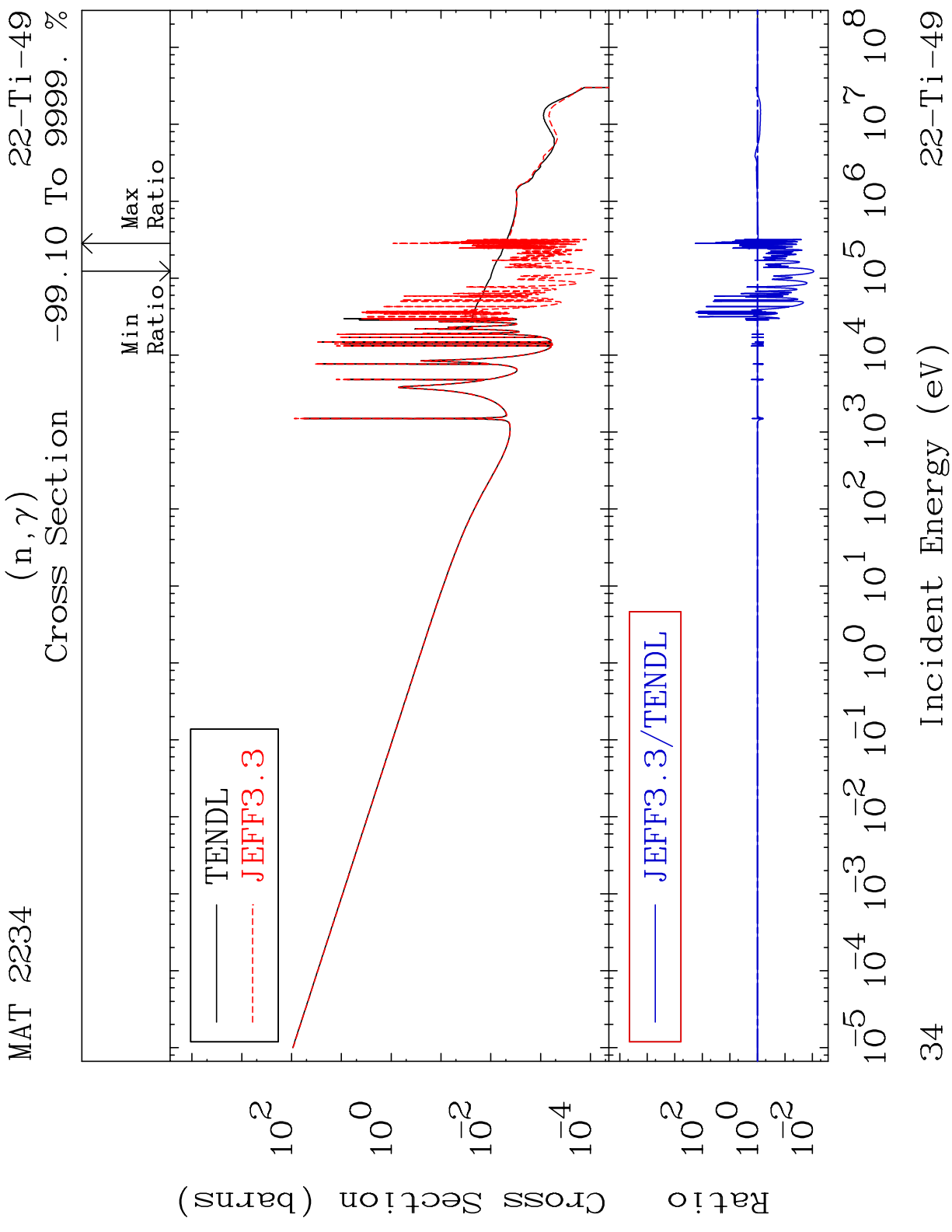


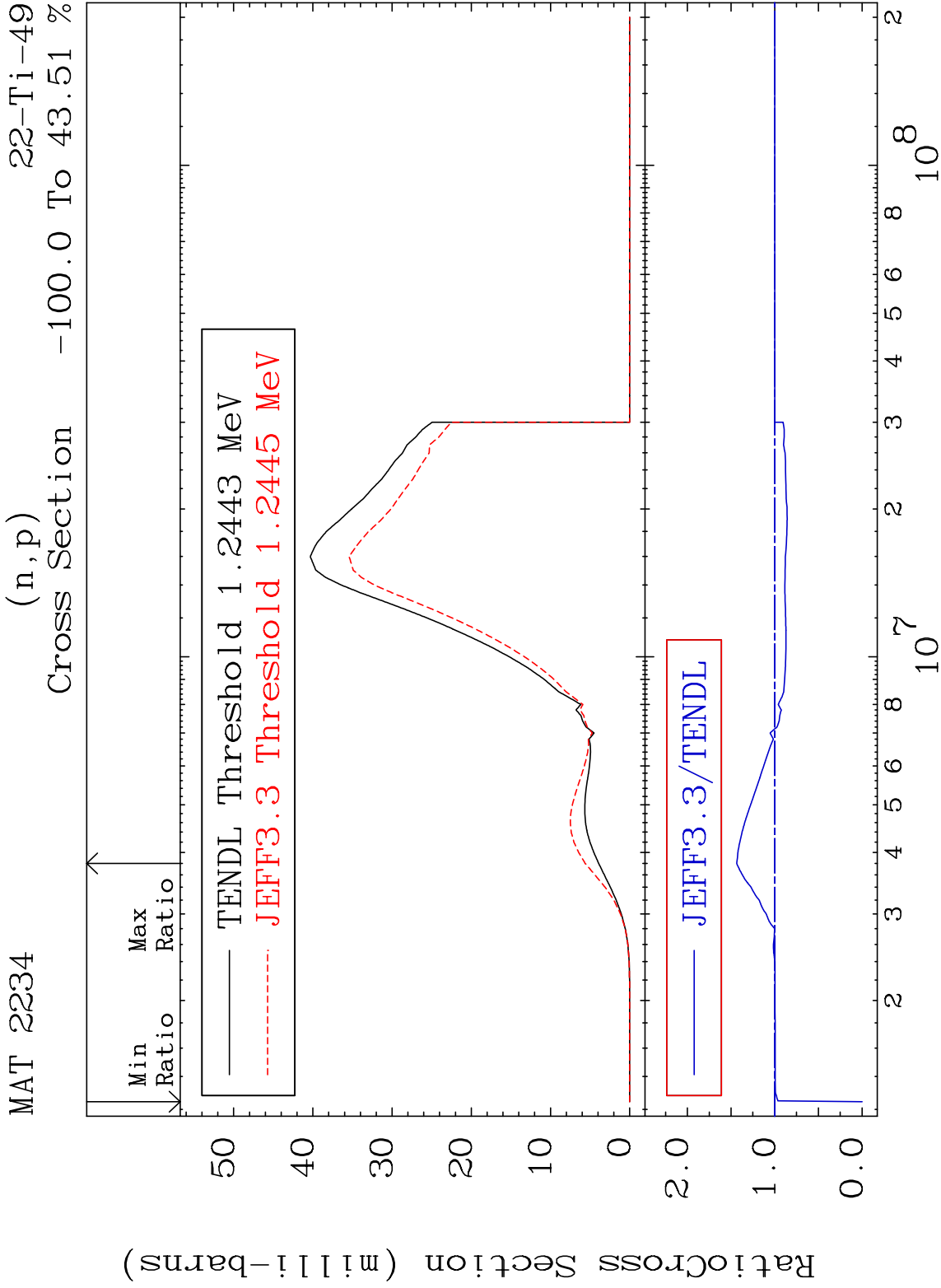
31 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 66 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 0.000 %

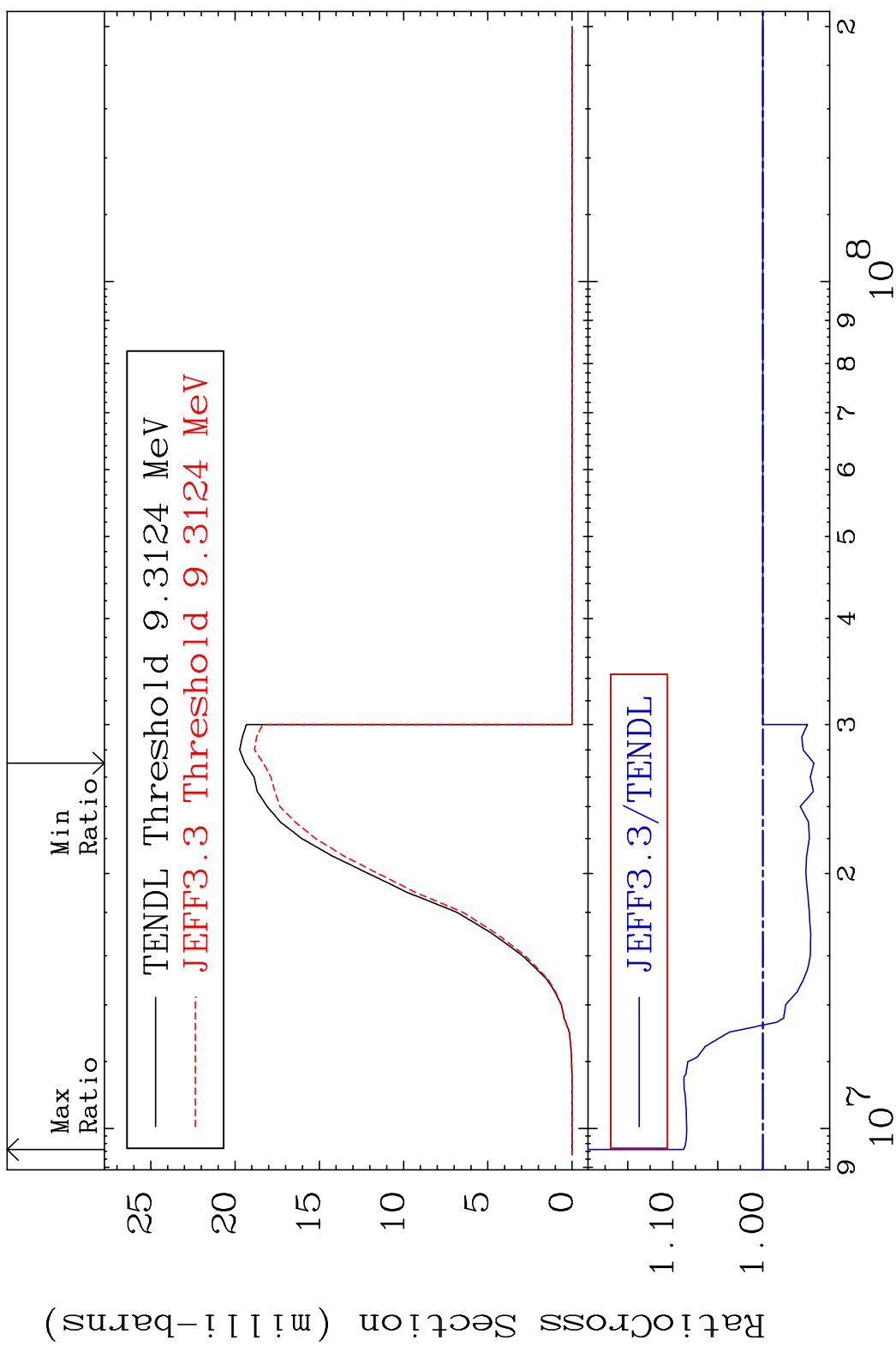




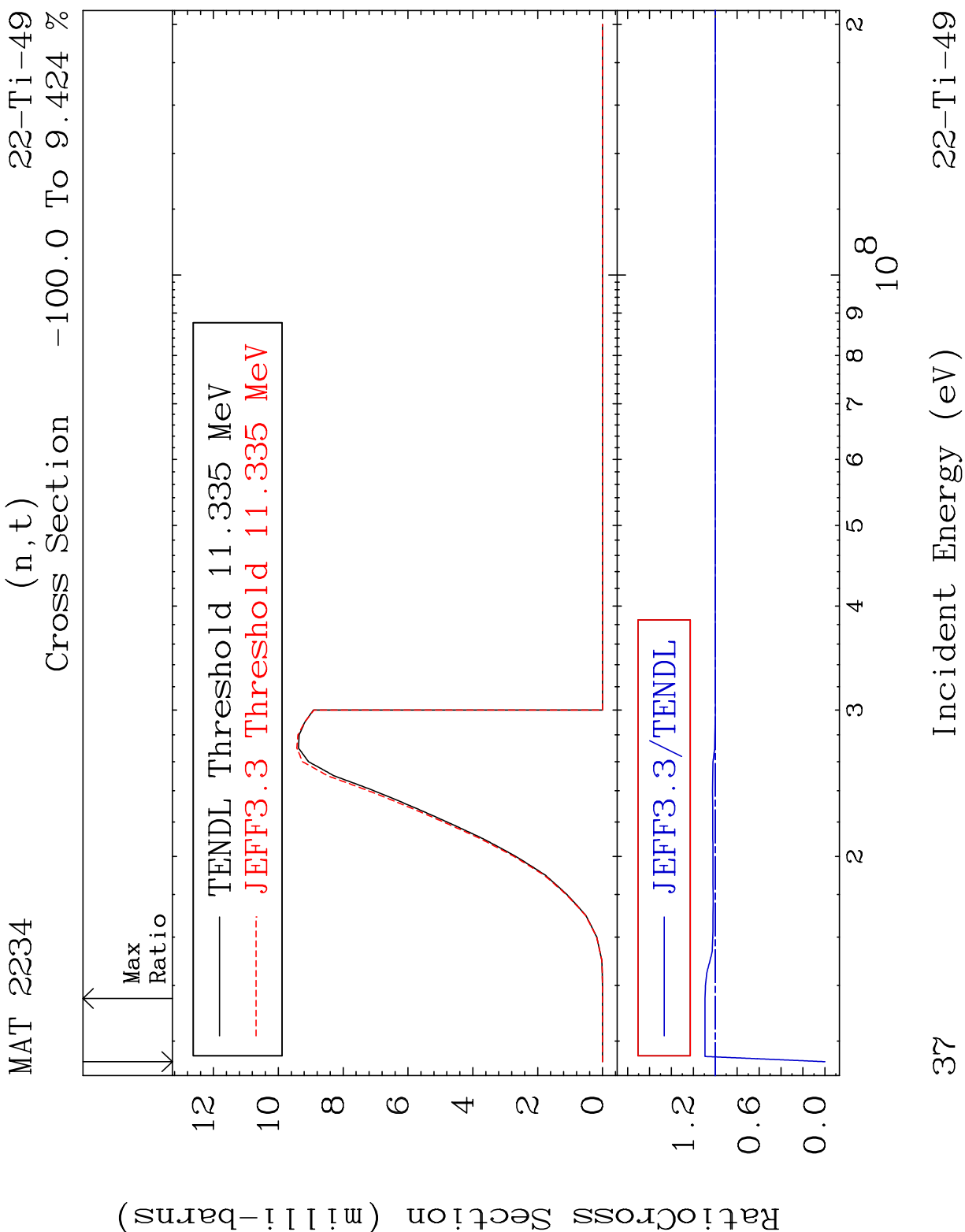




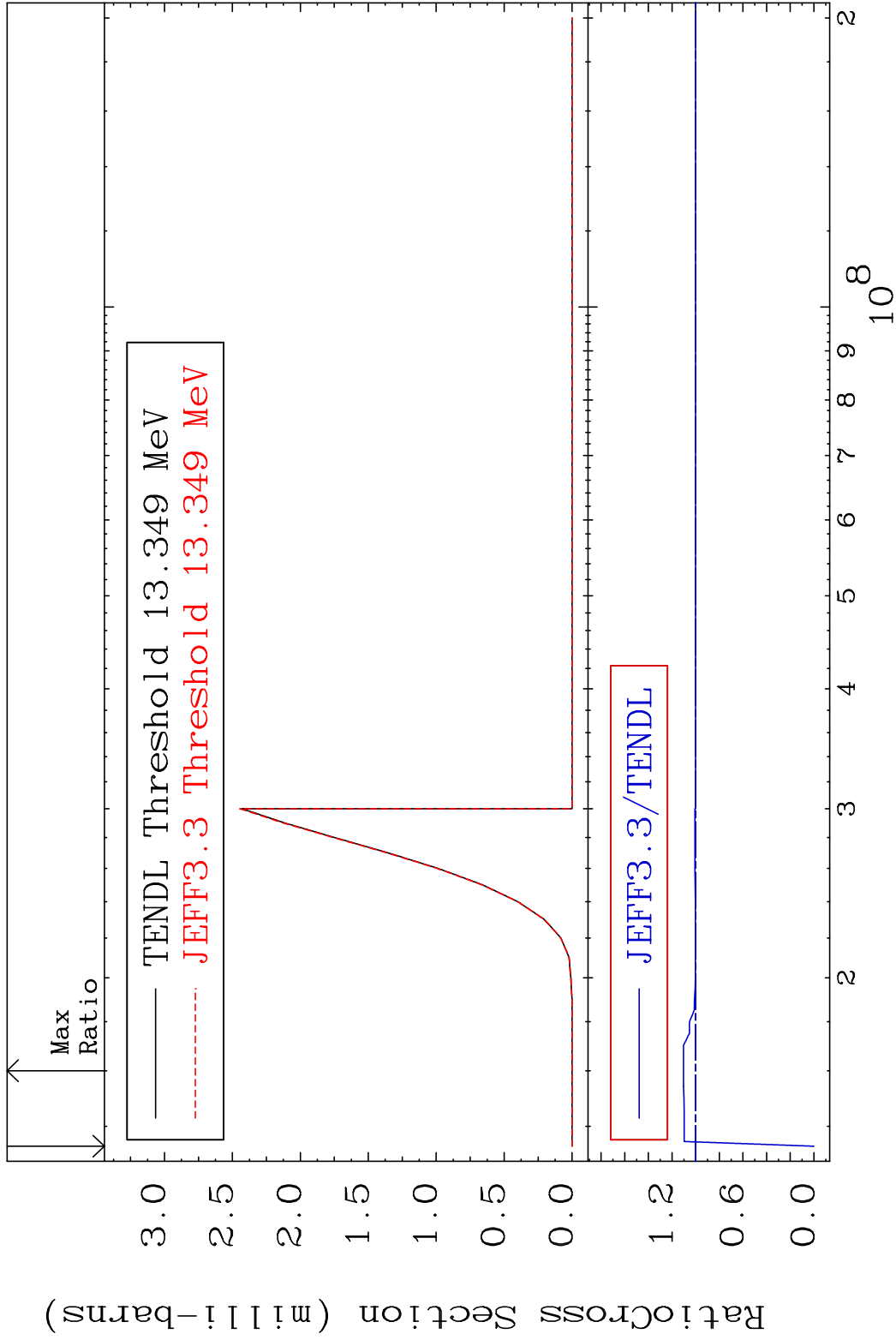
MAT 2234 (n, d) 22-Ti-49
 Cross Section -5.663 To 8.810 %



36 22-Ti-49



MAT 2234 (n, He-3) ²²Ti-49
 Cross Section -100.0 To 10.33 %

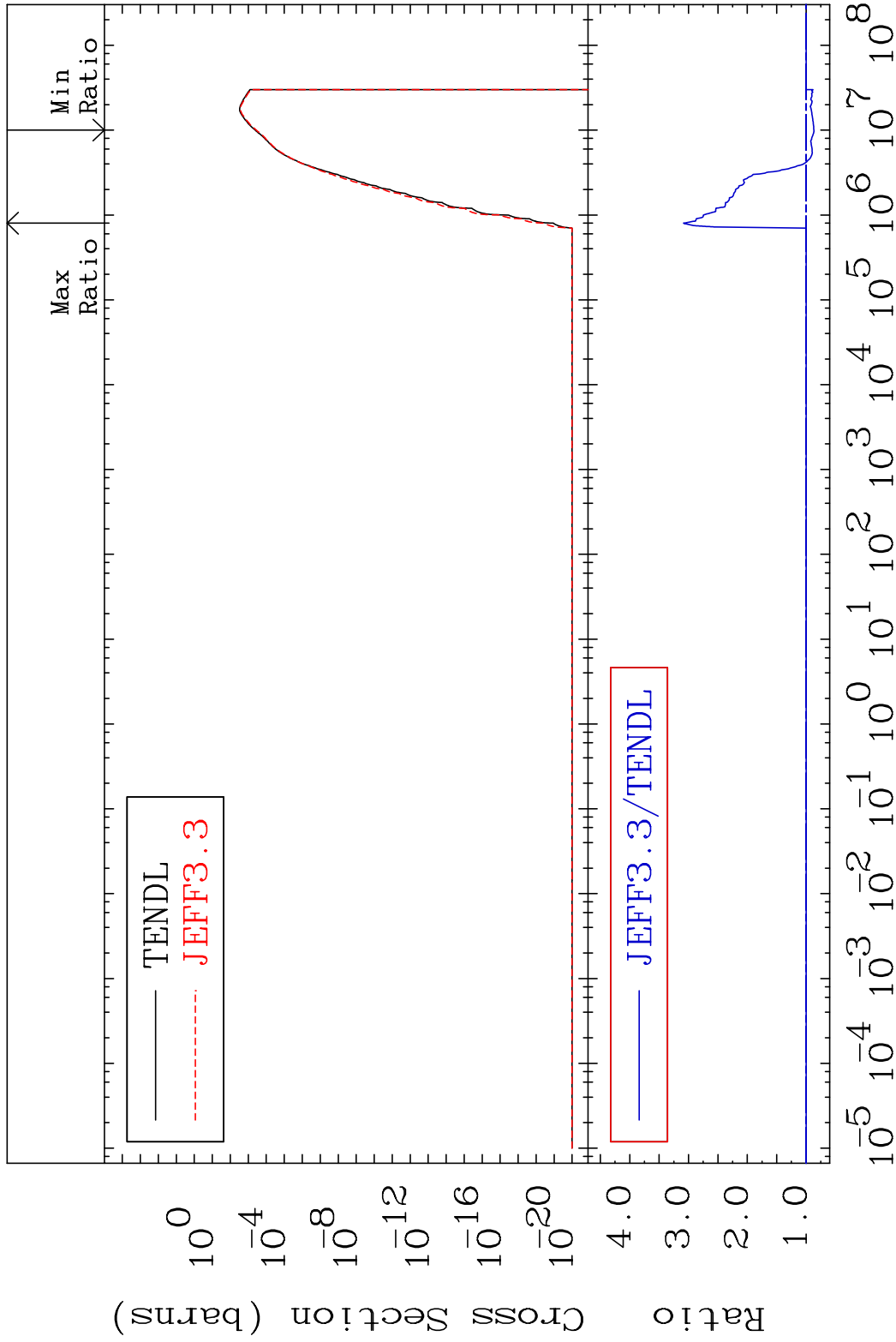


MAT 2234

(n, α)

22-Ti-49

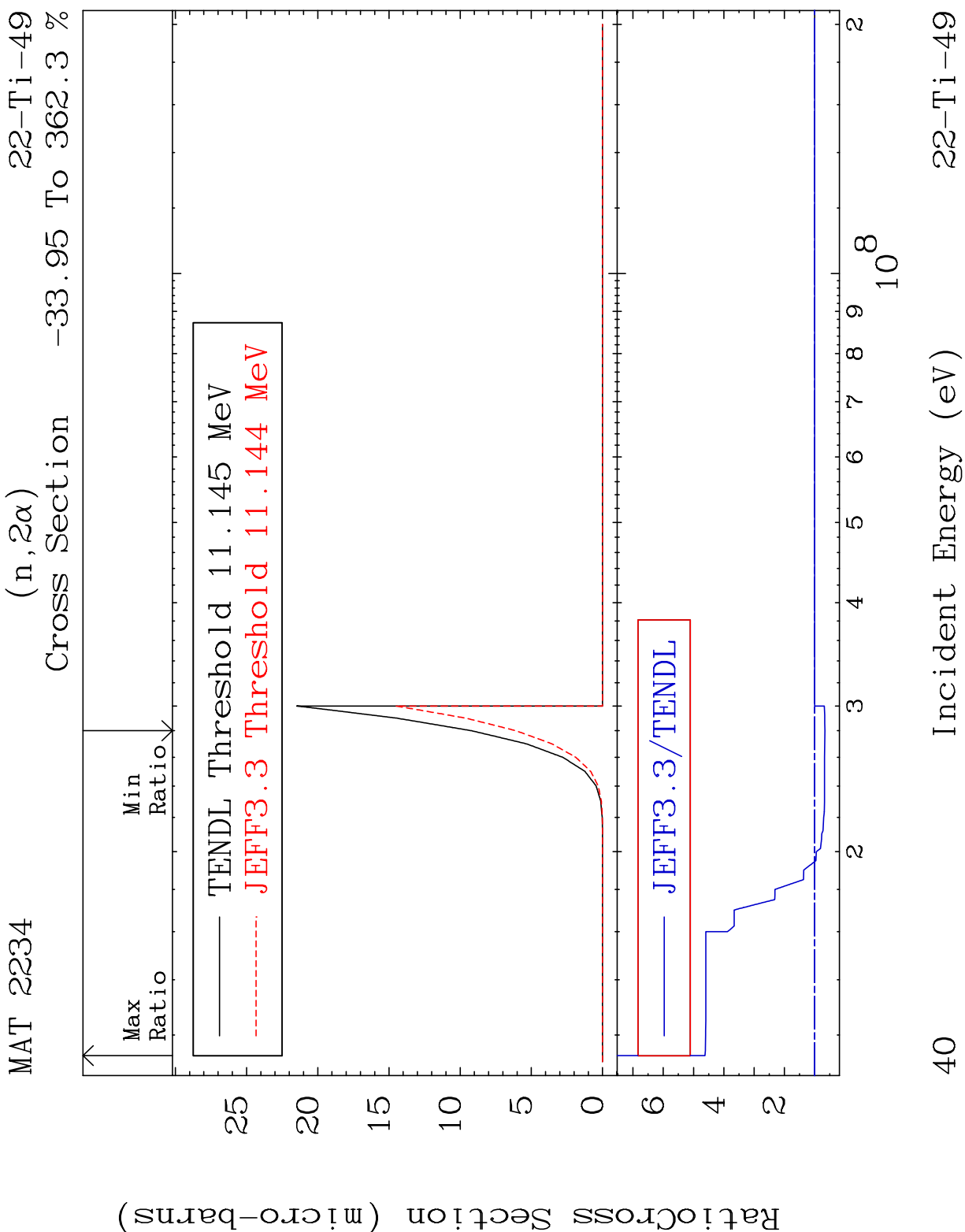
Cross Section -13.32 To 208.6 %

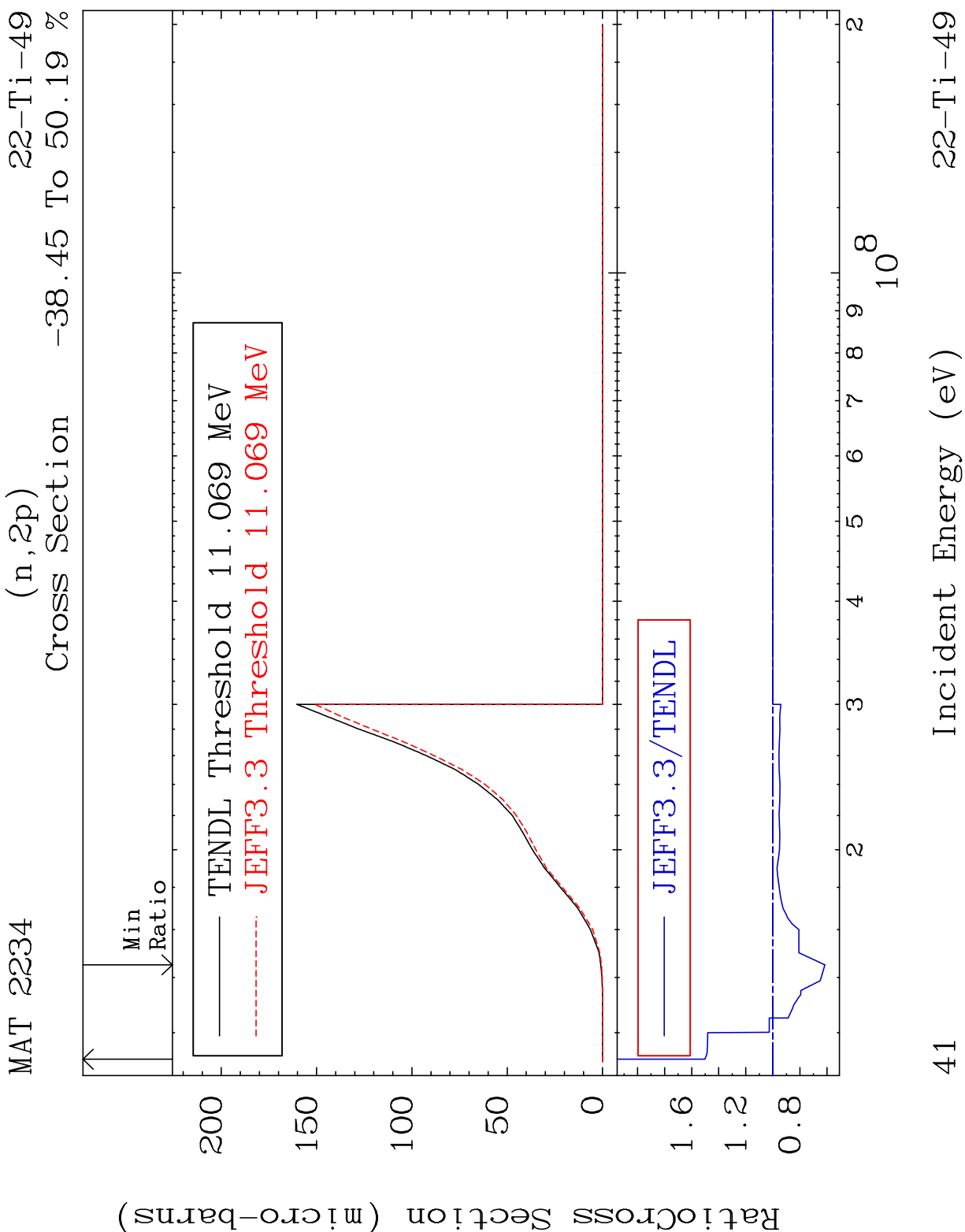


39

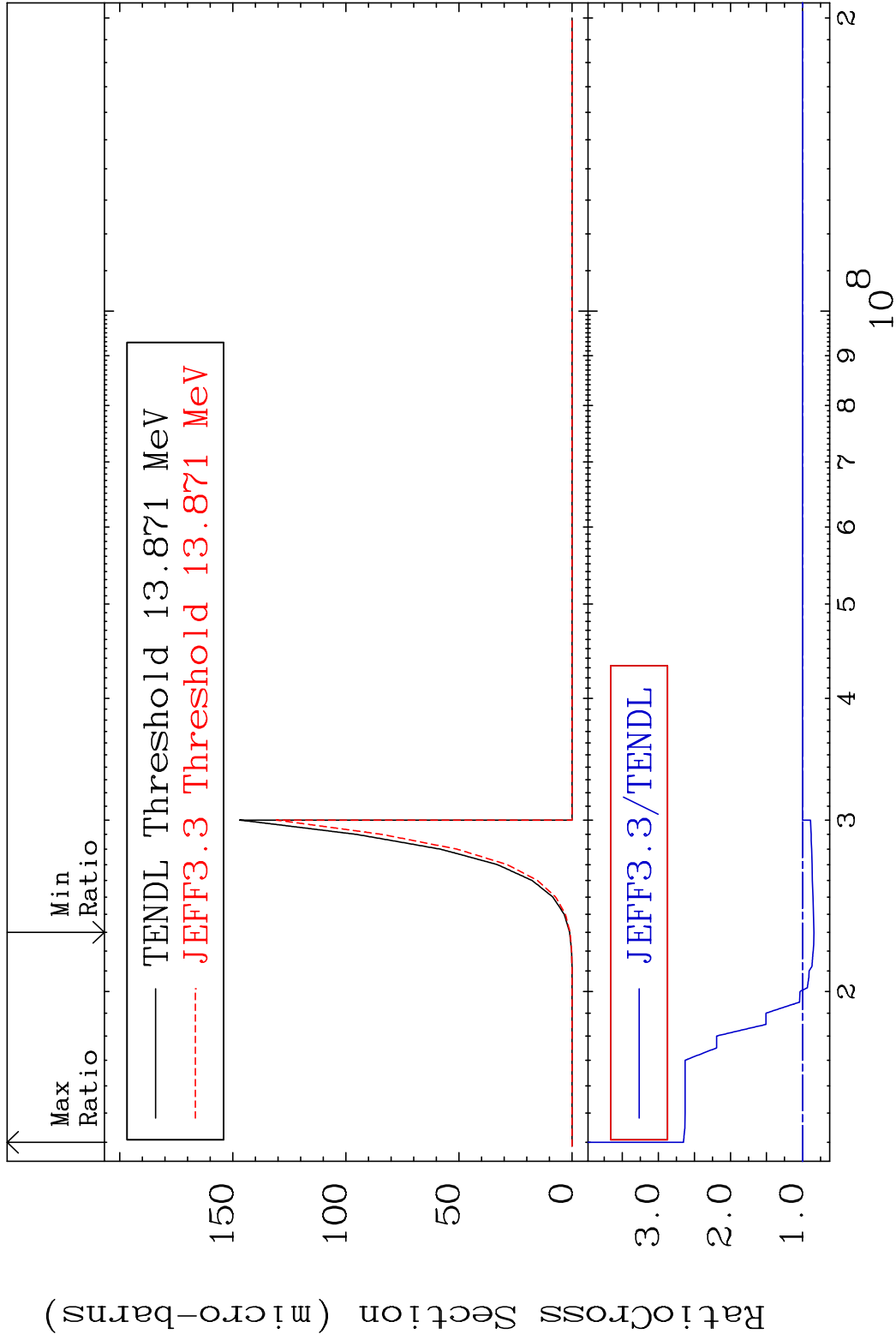
Incident Energy (eV)

22-Ti-49



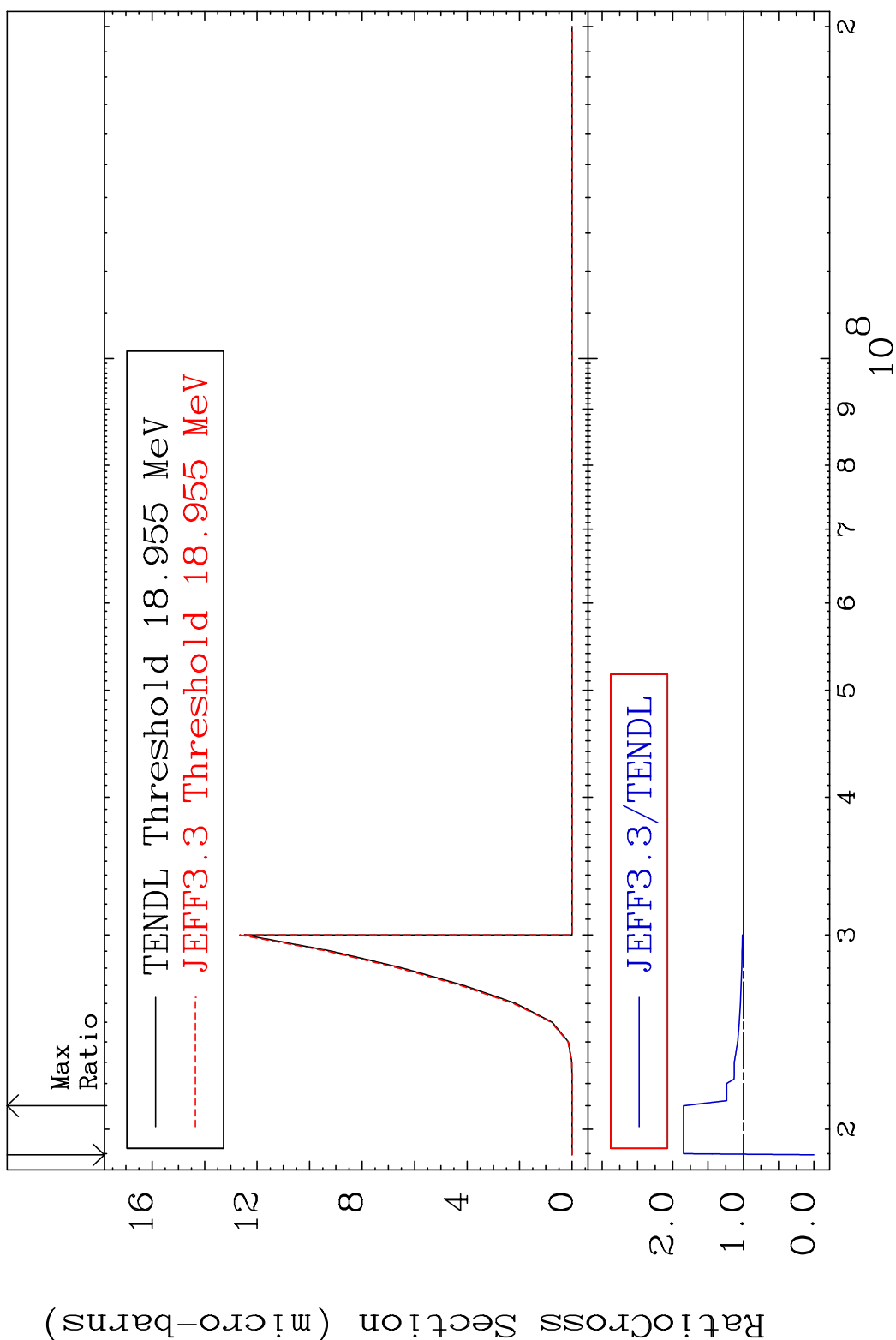


MAT 2234 (n,p) α $^{22}\text{Ti}-49$
 Cross Section -15.71 To 165.2 %



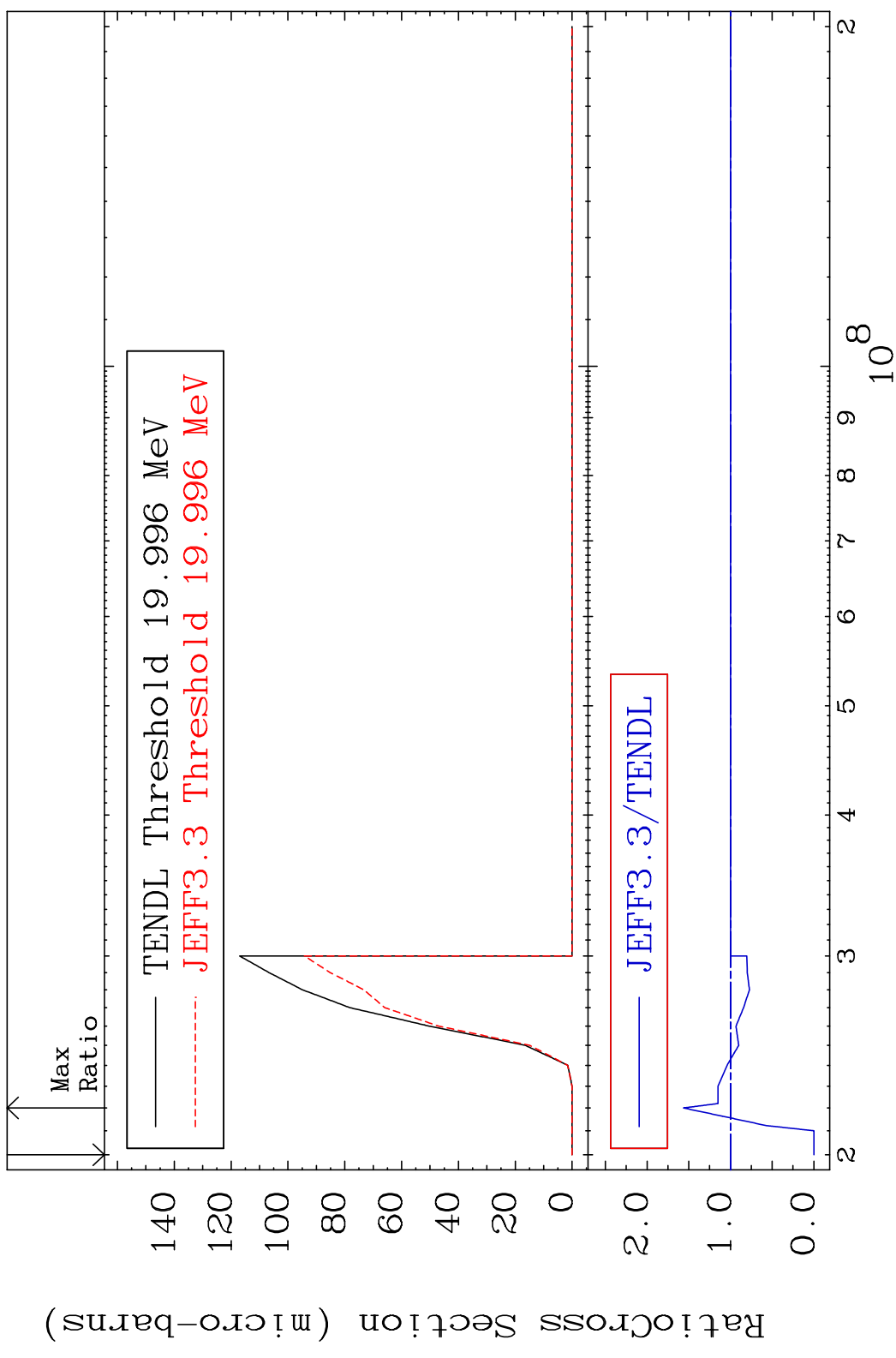
42 $^{22}\text{Ti}-49$

MAT 2234 (n,p) d 22-Ti-49
 Cross Section -100.0 To 84.85 %



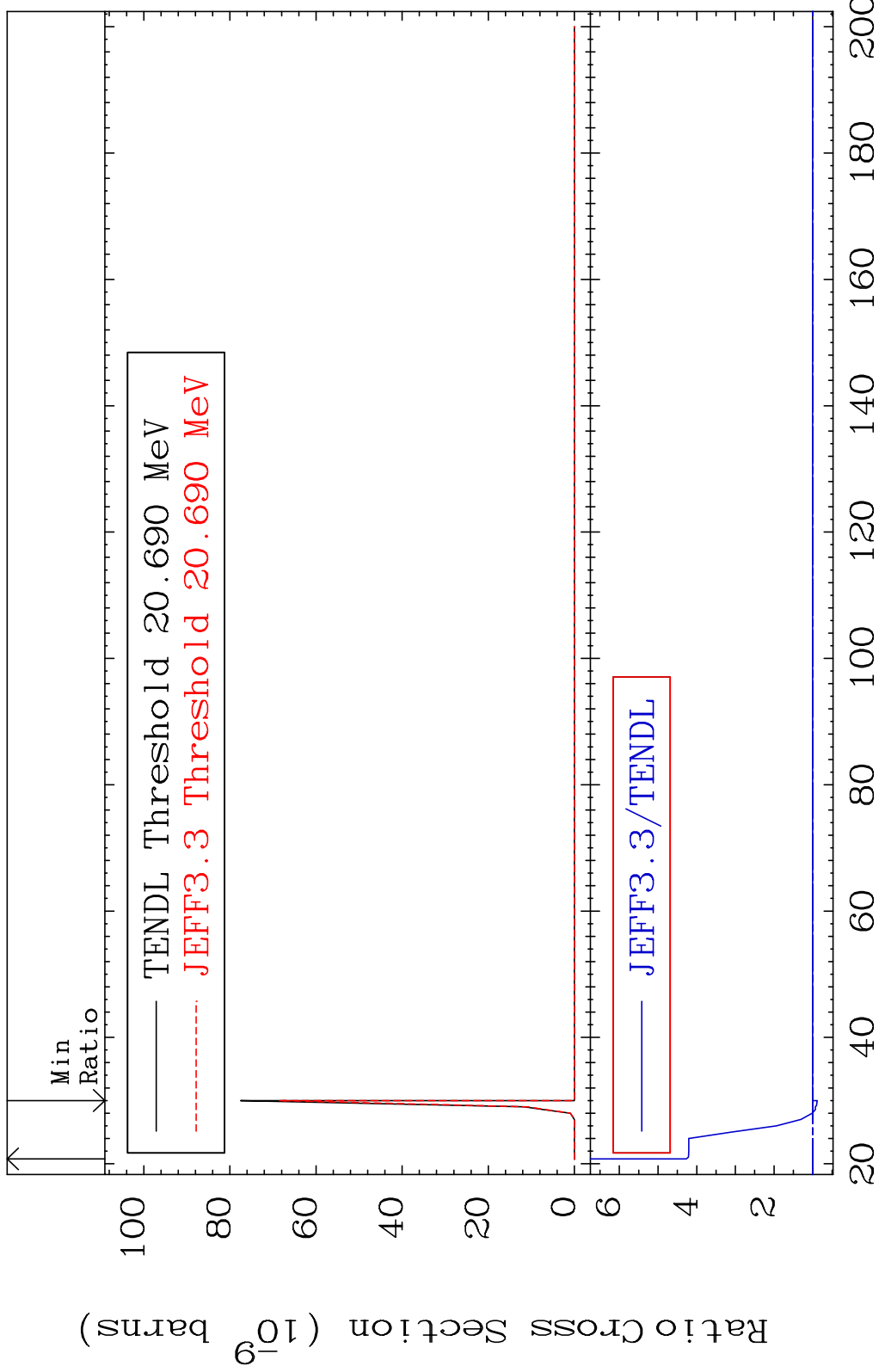
43 Incident Energy (eV) 22-Ti-49

MAT 2234 (n,p) t 22-Ti-49
 Cross Section -100.0 To 56.36 %



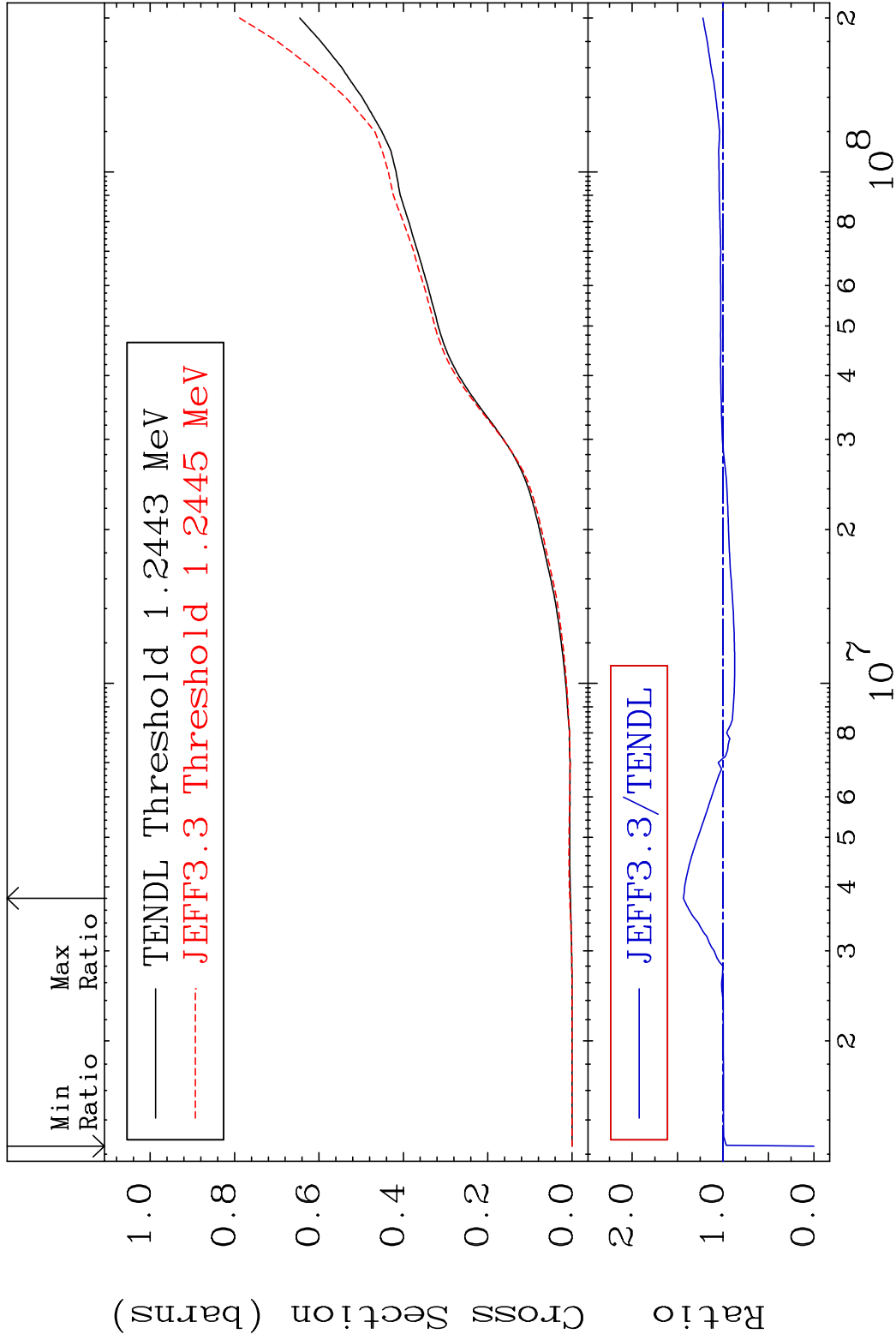
44 Incident Energy (eV) 22-Ti-49

MAT 2234 (n, d) α 22-Ti-49
Cross Section -11.50 To 327.1 %

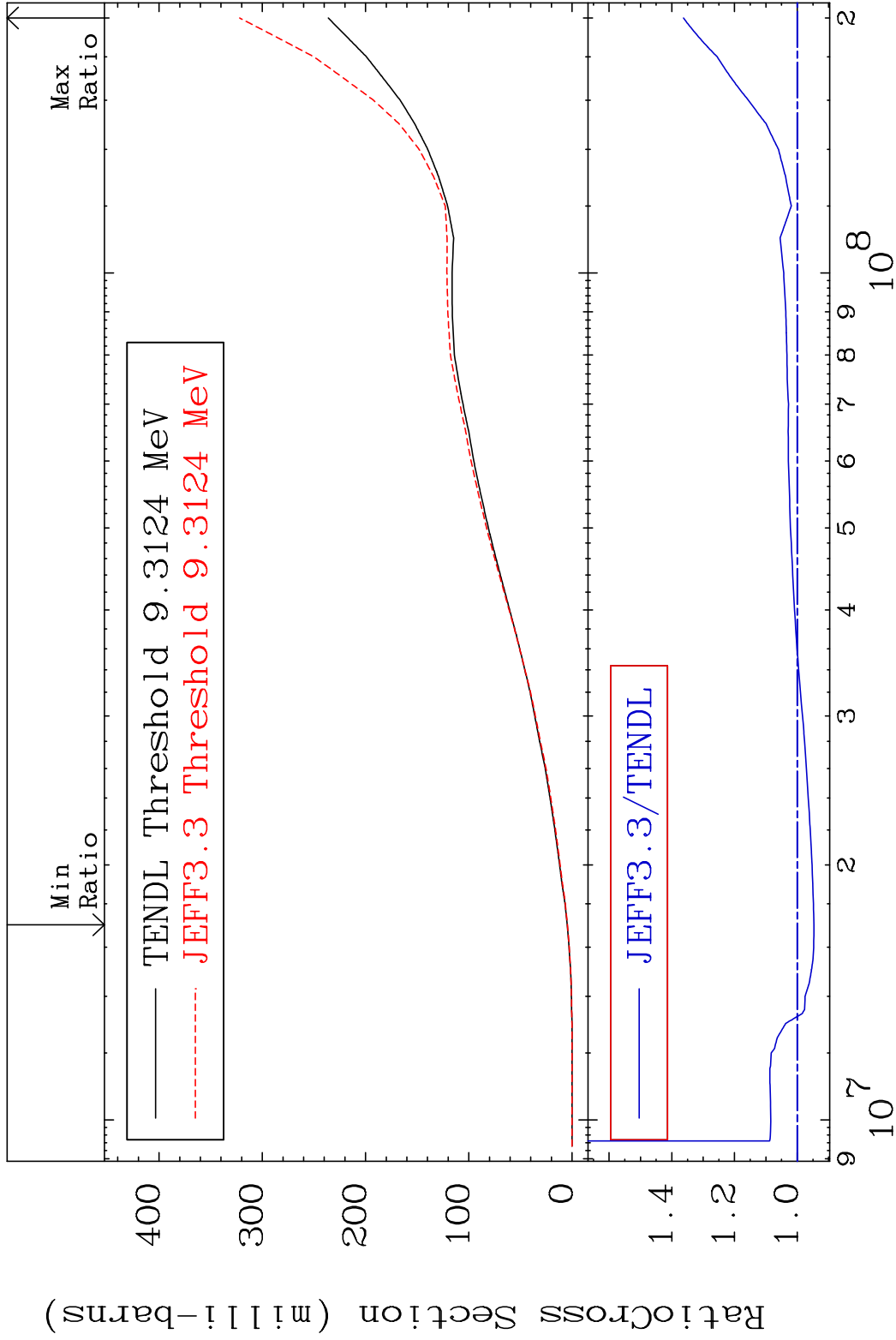


45 Incident Energy (MeV) 22-Ti-49

MAT 2234 Hydrogen Production ²²Ti-49
 Cross Section -100.0 To 43.51 %

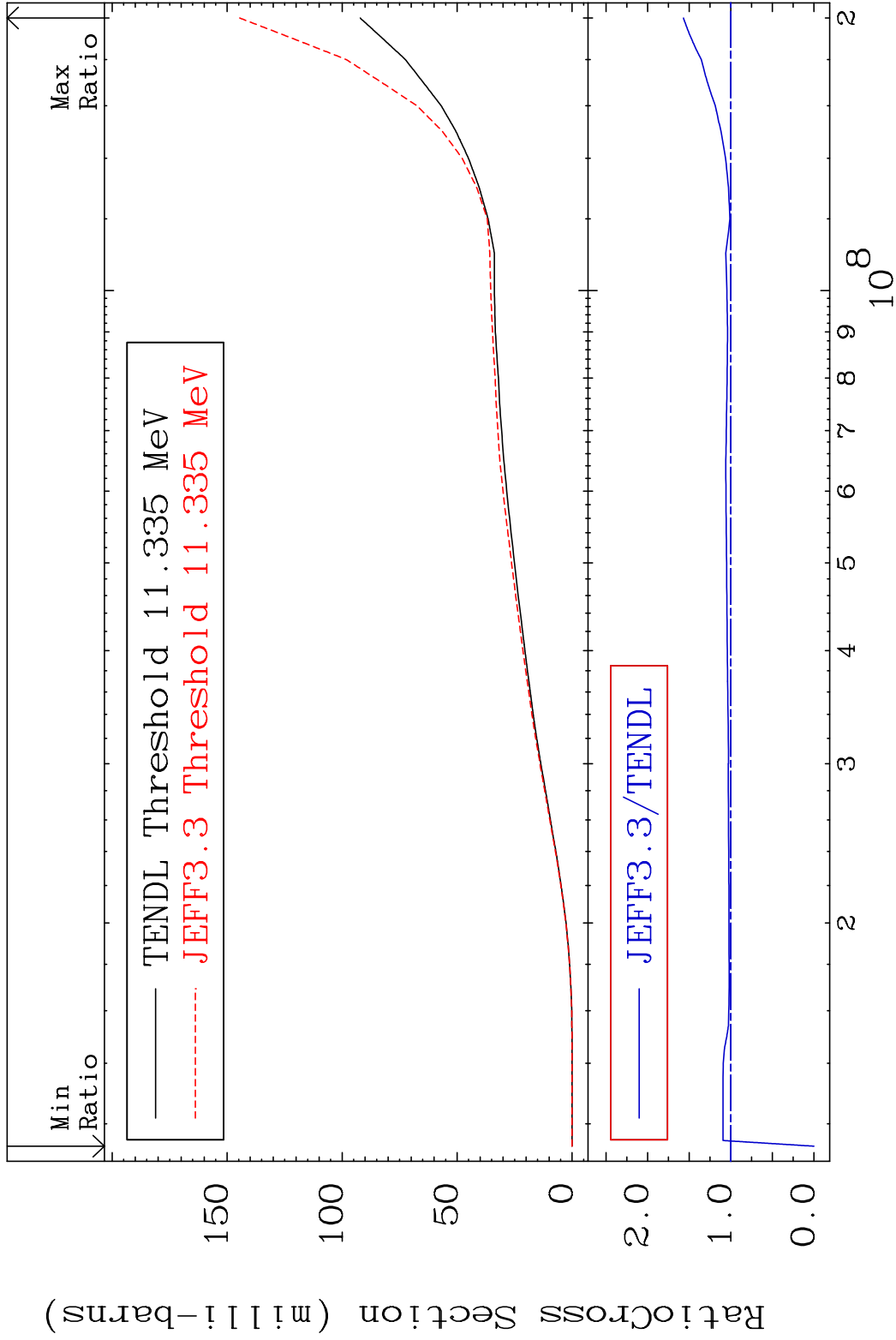


MAT 2234 Deuterium Production ²²Ti-49
 Cross Section -5.303 To 36.29 %



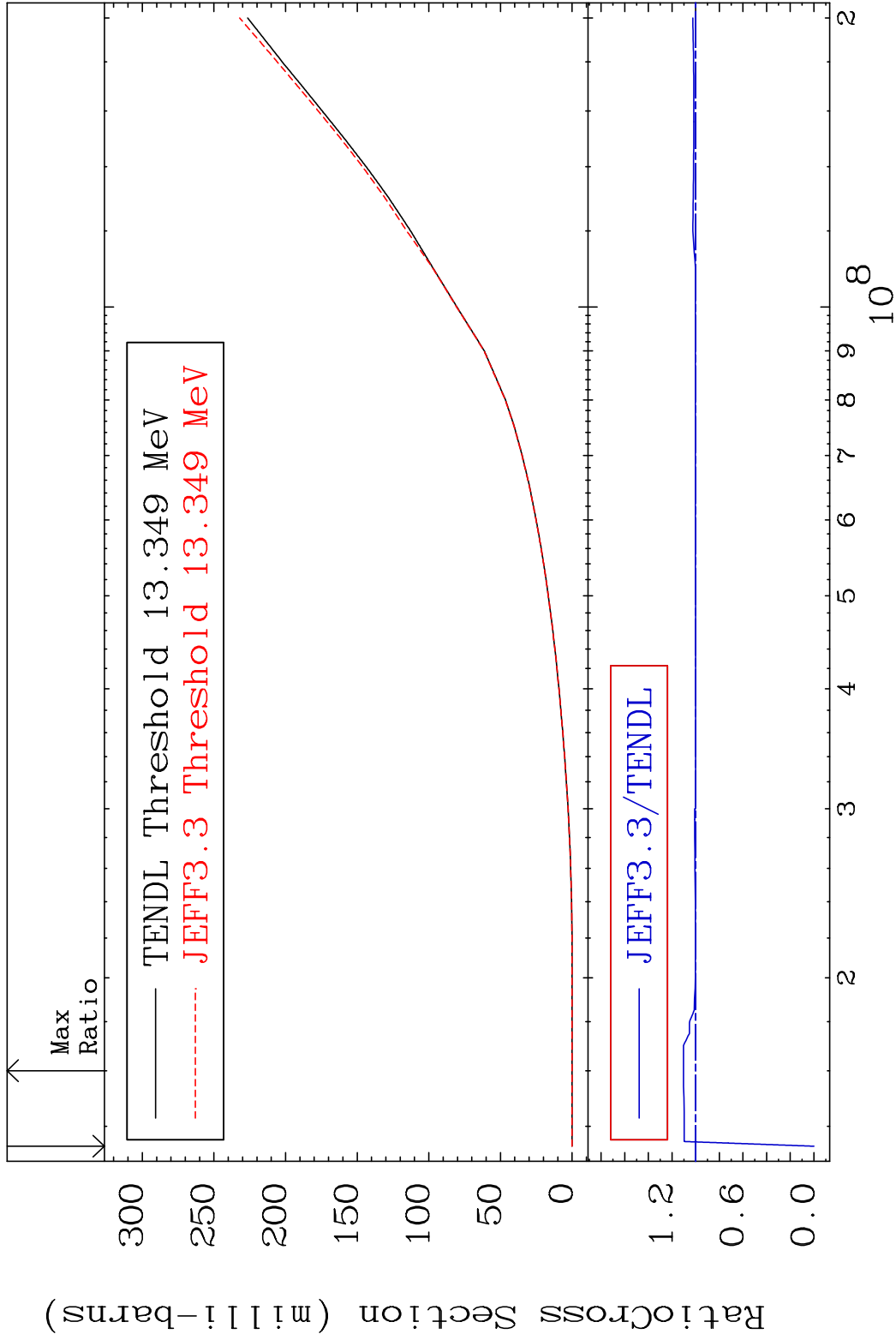
47 Incident Energy (eV) ²²Ti-49

MAT 2234 Tritium Production ²²Ti-49
 Cross Section -100.0 To 56.89 %



48 ²²Ti-49

MAT 2234 He-3 Production 22-Ti-49
 Cross Section -100.0 To 10.33 %

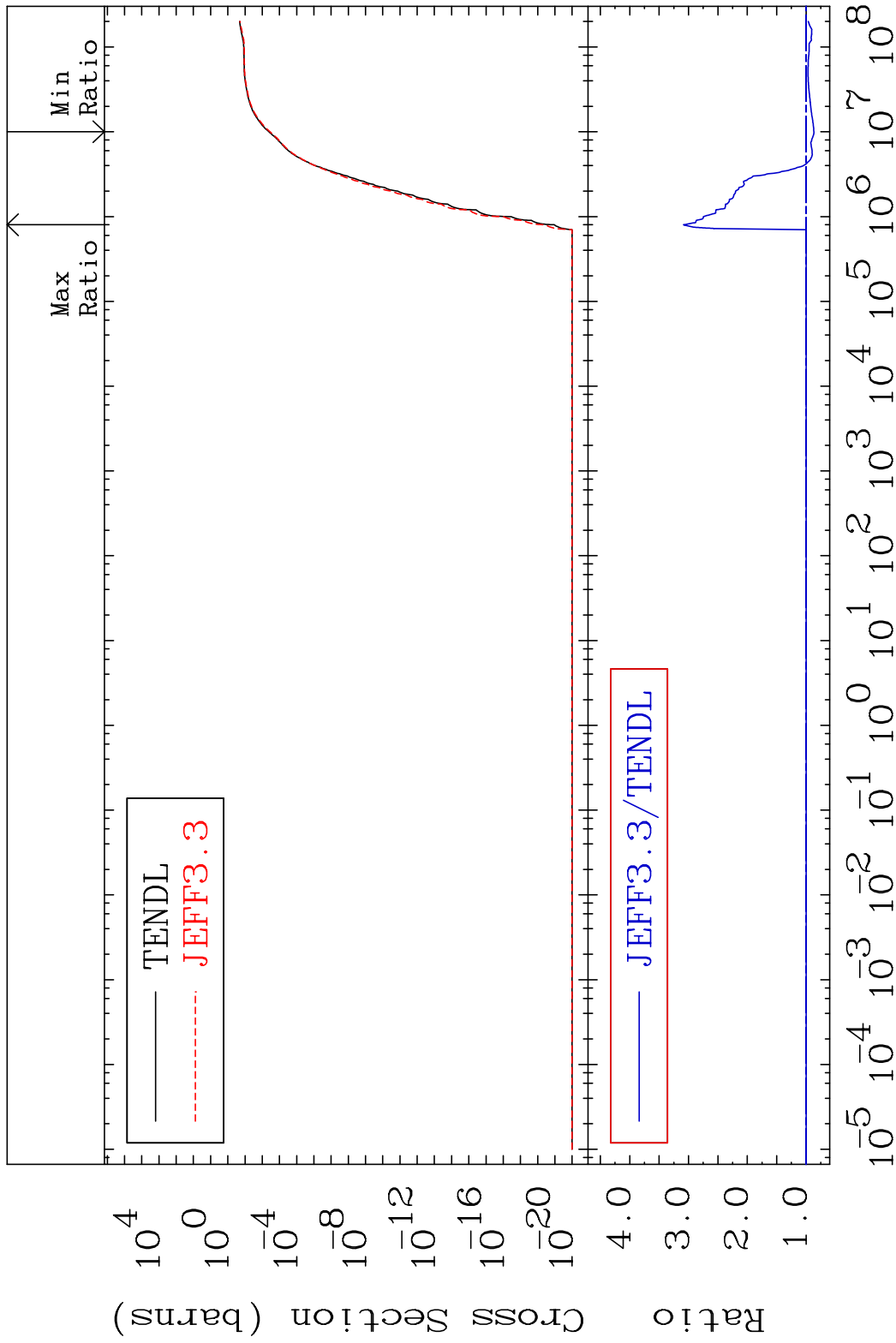


49 Incident Energy (eV) 22-Ti-49

MAT 2234

He-4 Production
Cross Section -13.32 To 208.6 %

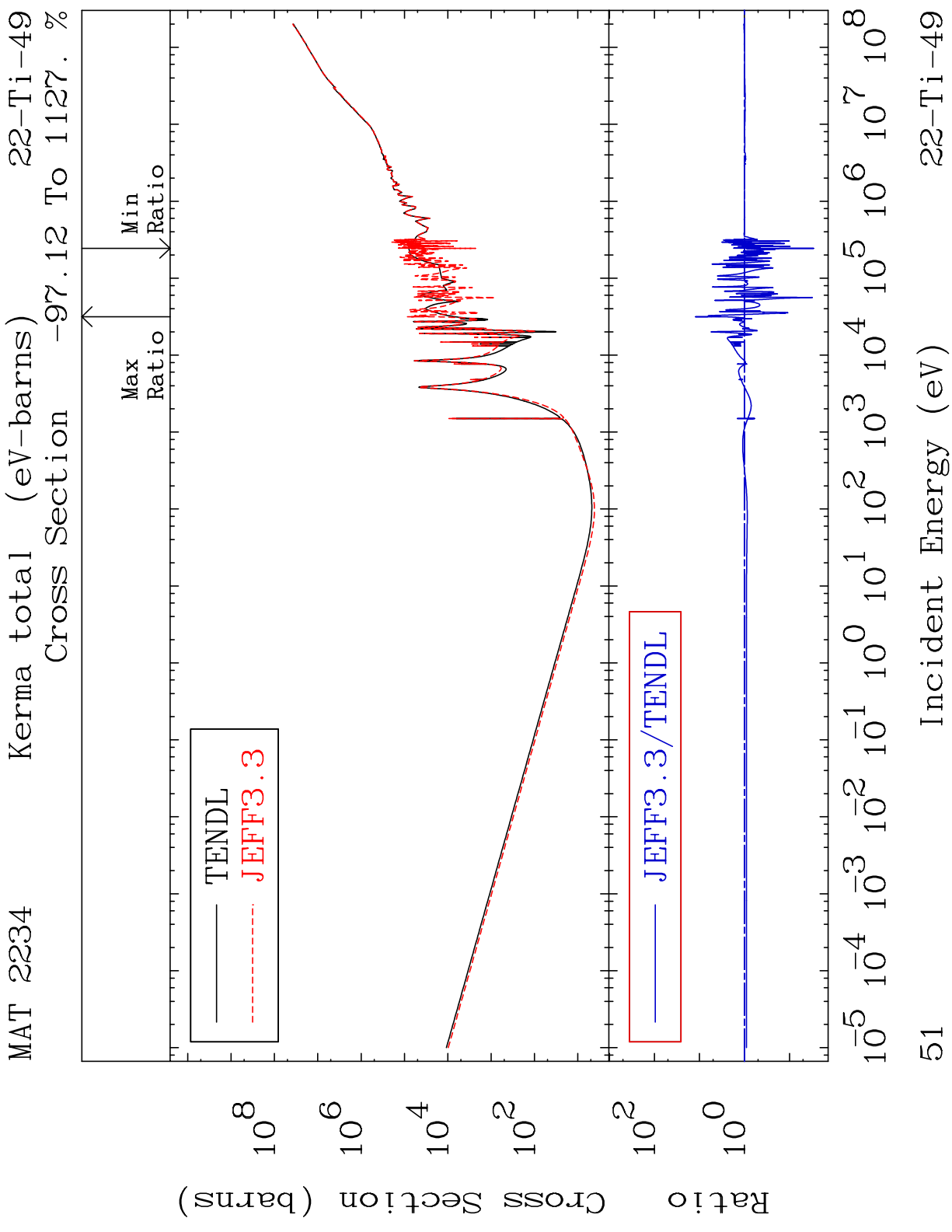
22-Ti-49



50

Incident Energy (eV)

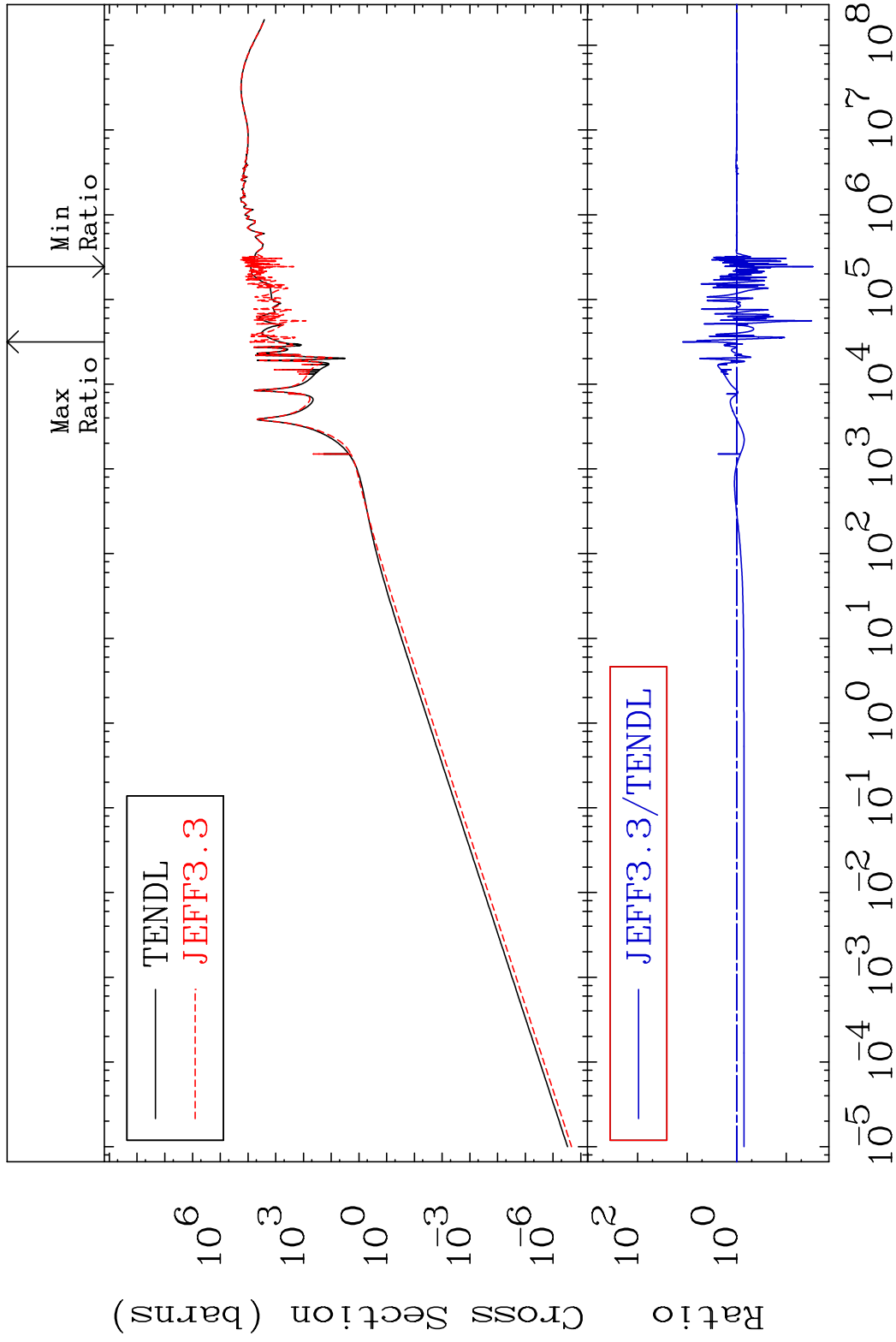
22-Ti-49



MAT 2234

Kerma elastic
Cross Section

22-Ti-49
-97.12 To 1123. %

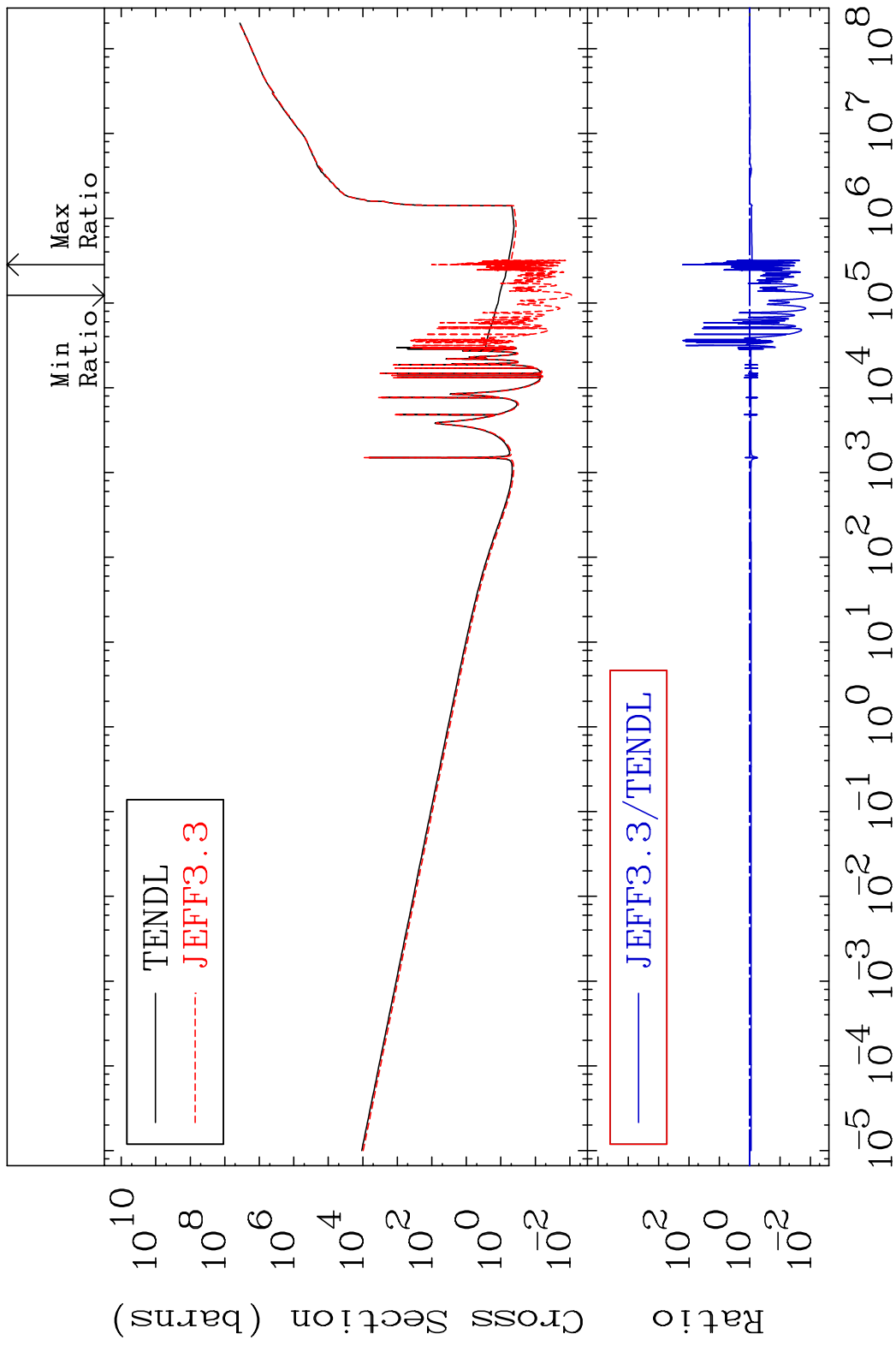


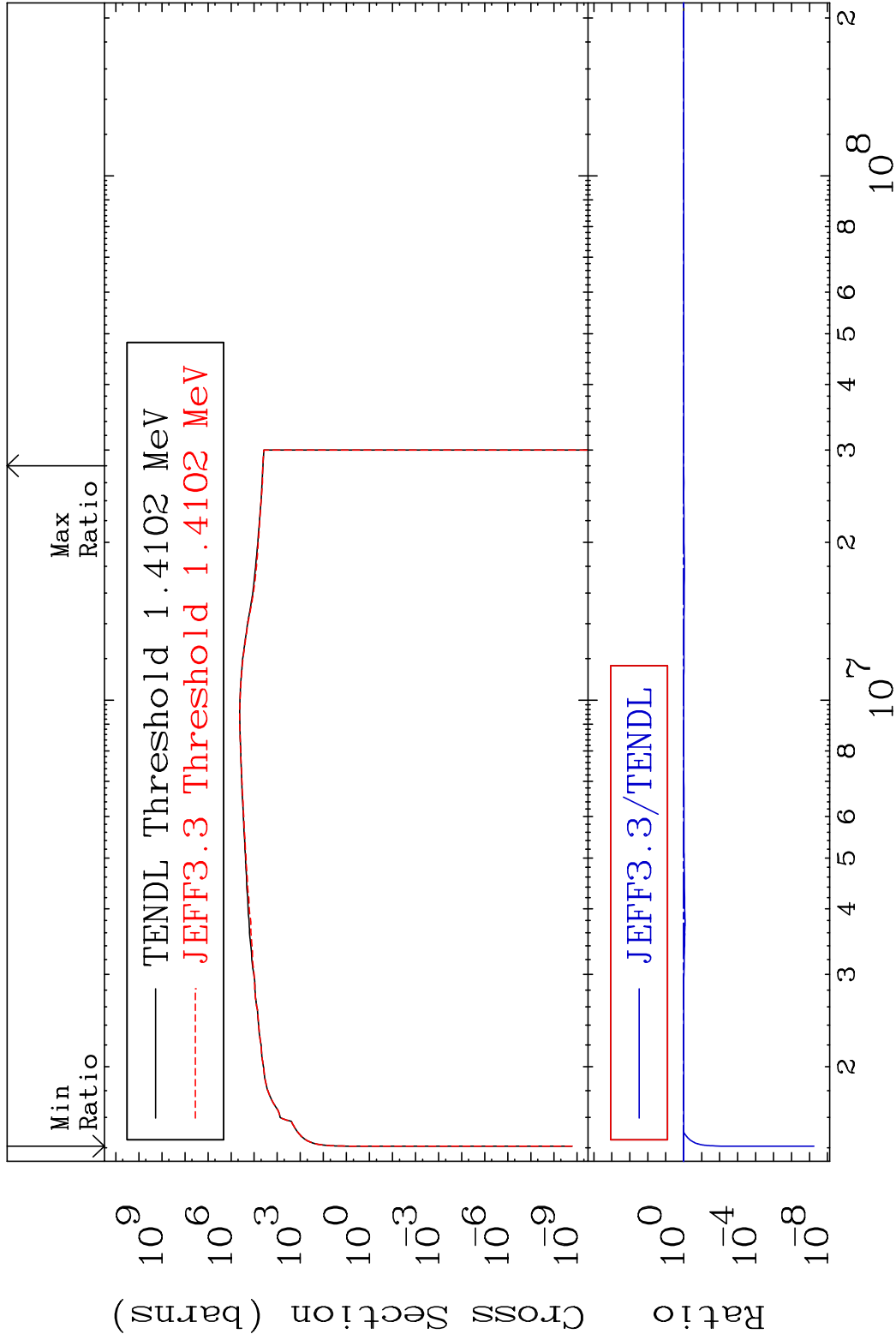
52

Incident Energy (eV)

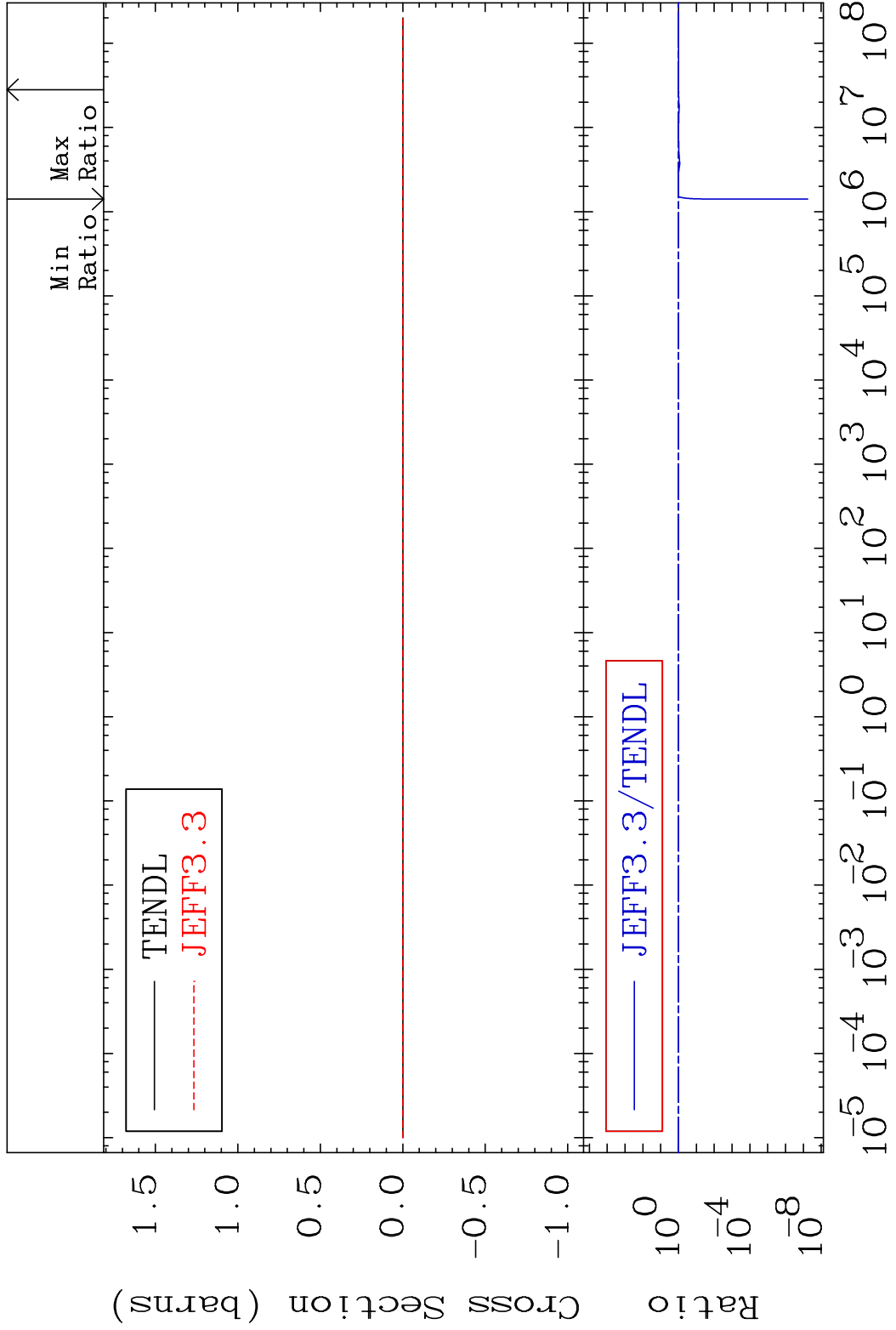
22-Ti-49

MAT 2234 Kerma non-elastic (all but mt2) 22-Ti-49
 Cross Section -99.19 To 9999. %



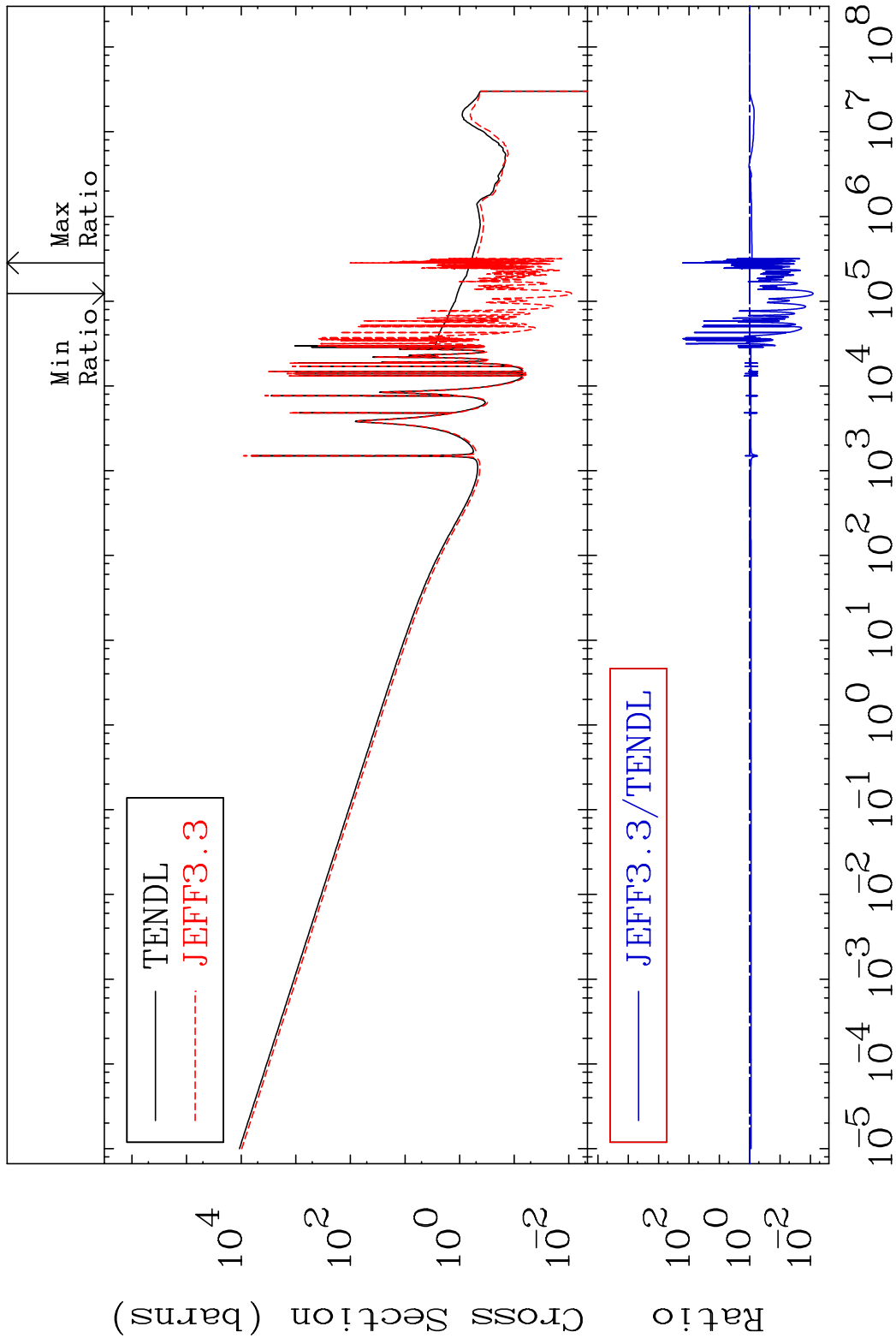


MAT 2234 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-49
 Cross Section -100.0 To 3.272 %



MAT 2234

Kerma capture (mt102) 22-Ti-49
Cross Section -99.19 To 9999. %

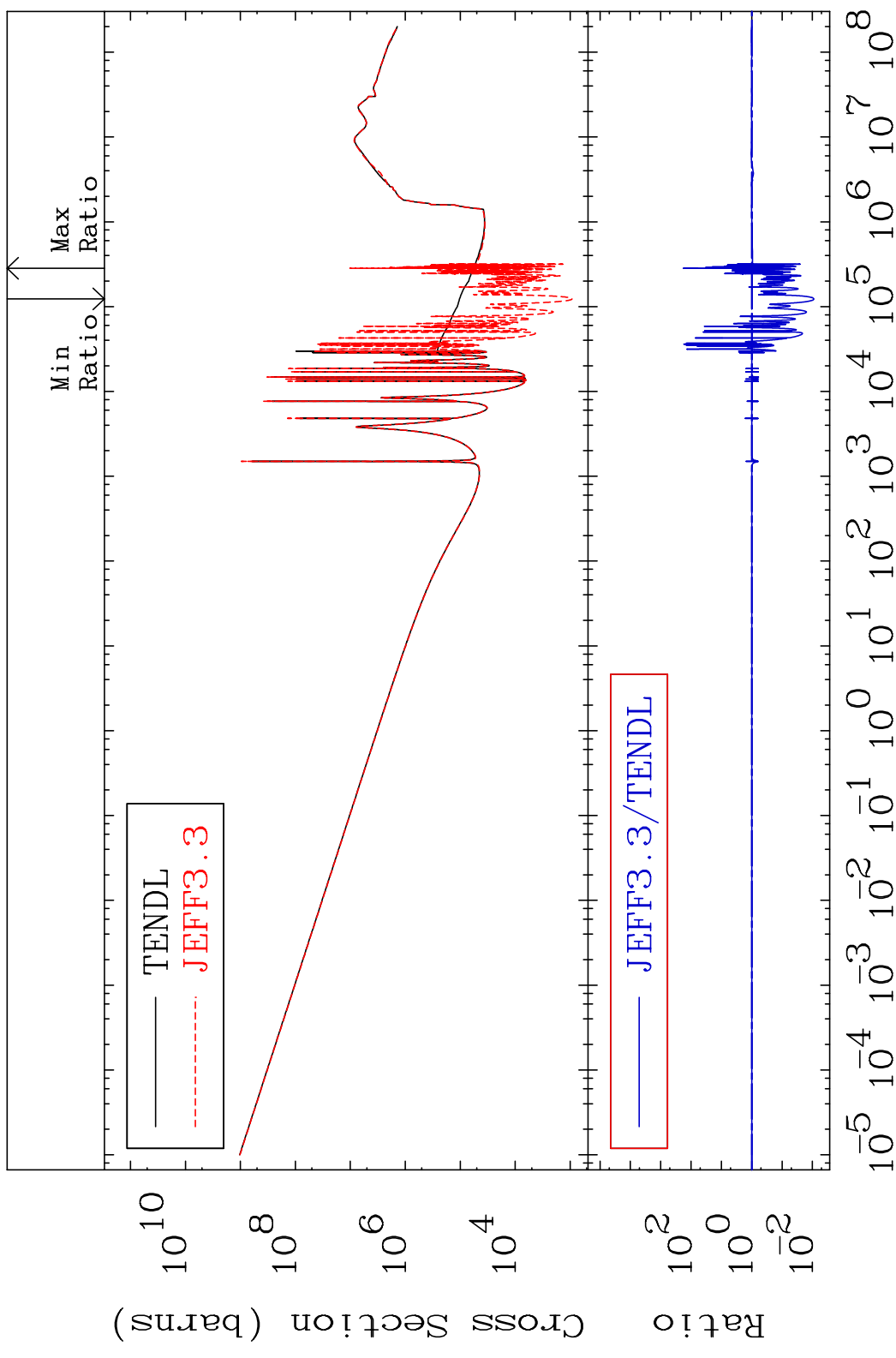


56

Incident Energy (eV)

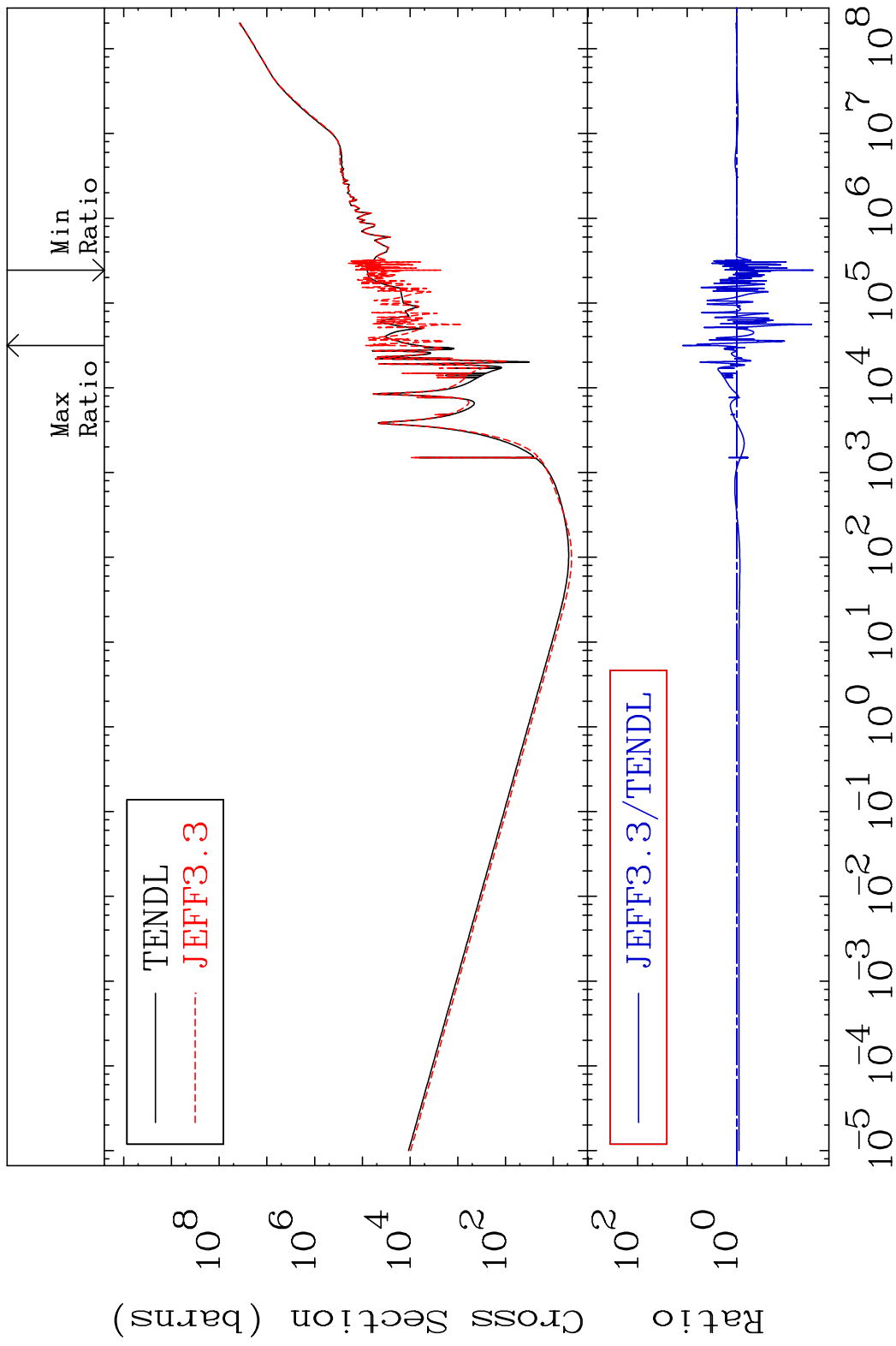
22-Ti-49

MAT 2234 Total photon (eV-barns) 22-Ti-49
 Cross Section -99.10 To 9999. %

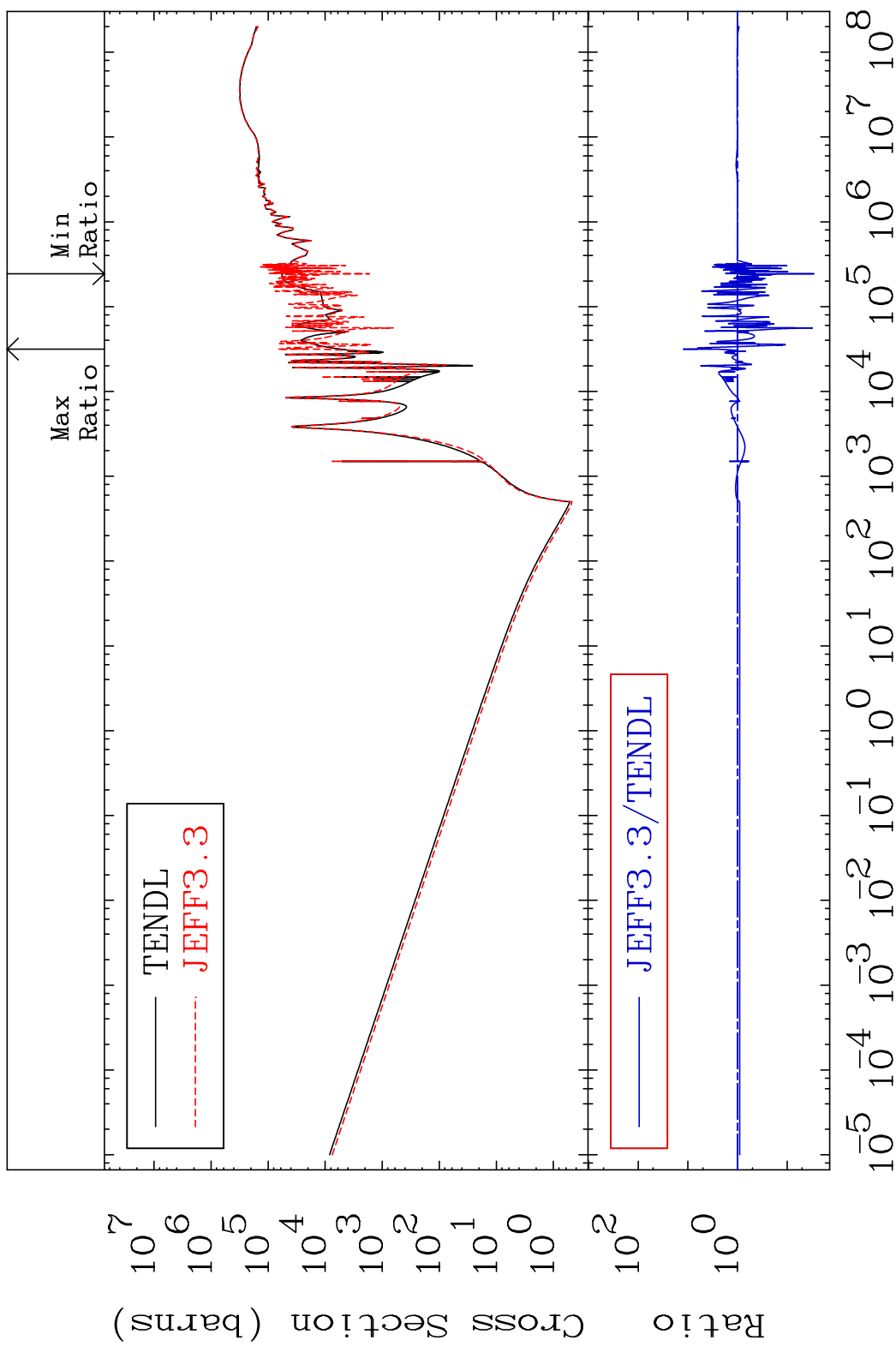


57 Incident Energy (eV) 22-Ti-49

MAT 2234 Total kinematic kerma (high limit) 22-Ti-49
 Cross Section -97.12 To 1127. %



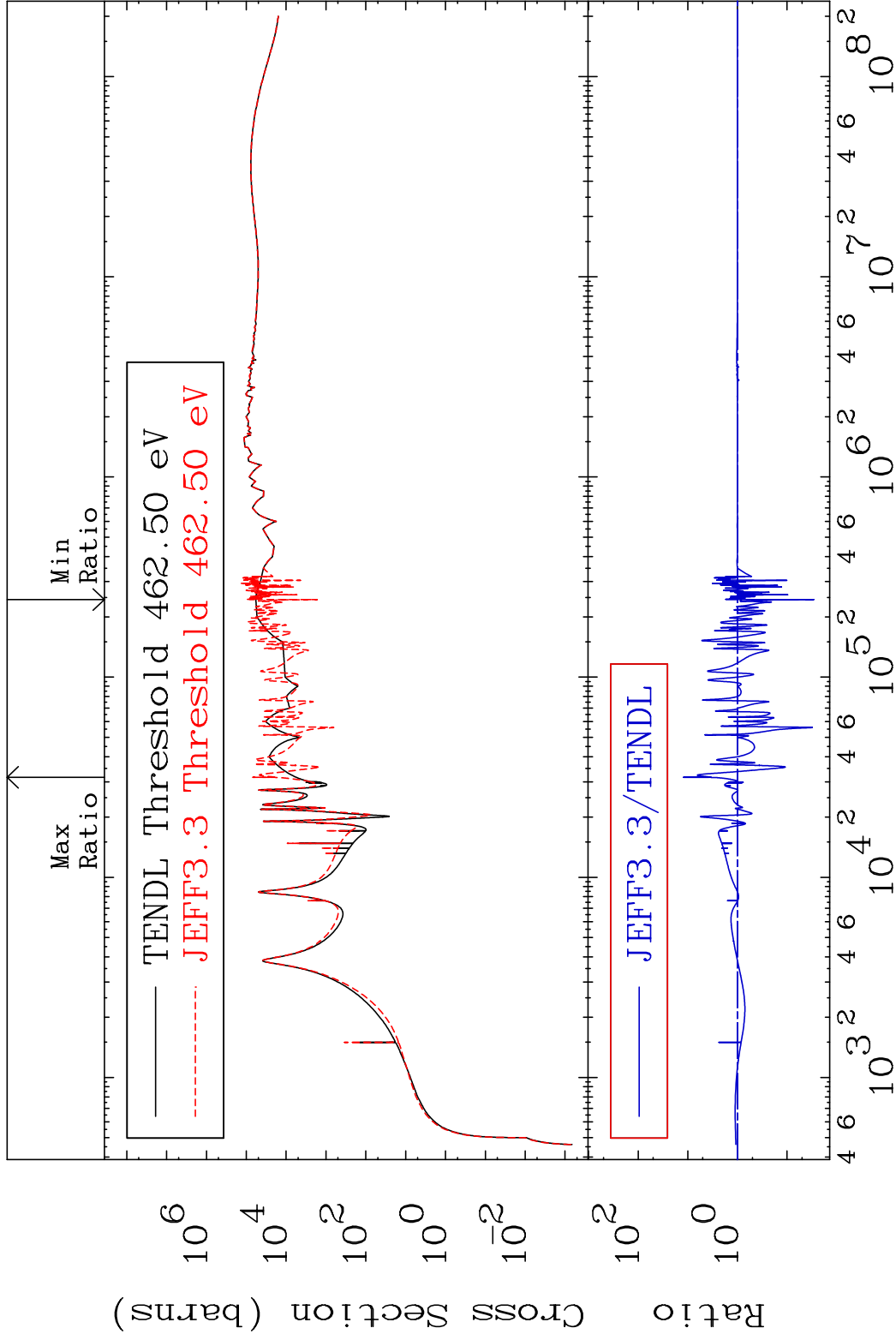
MAT 2234 Dpa total (eV-barns) ²²Ti-49
 Cross Section -97.12 To 1127. %



59 Incident Energy (eV) ²²Ti-49

MAT 2234

Dpa elastic (mt2) 22-Ti-49
Cross Section -97.12 To 1123. %

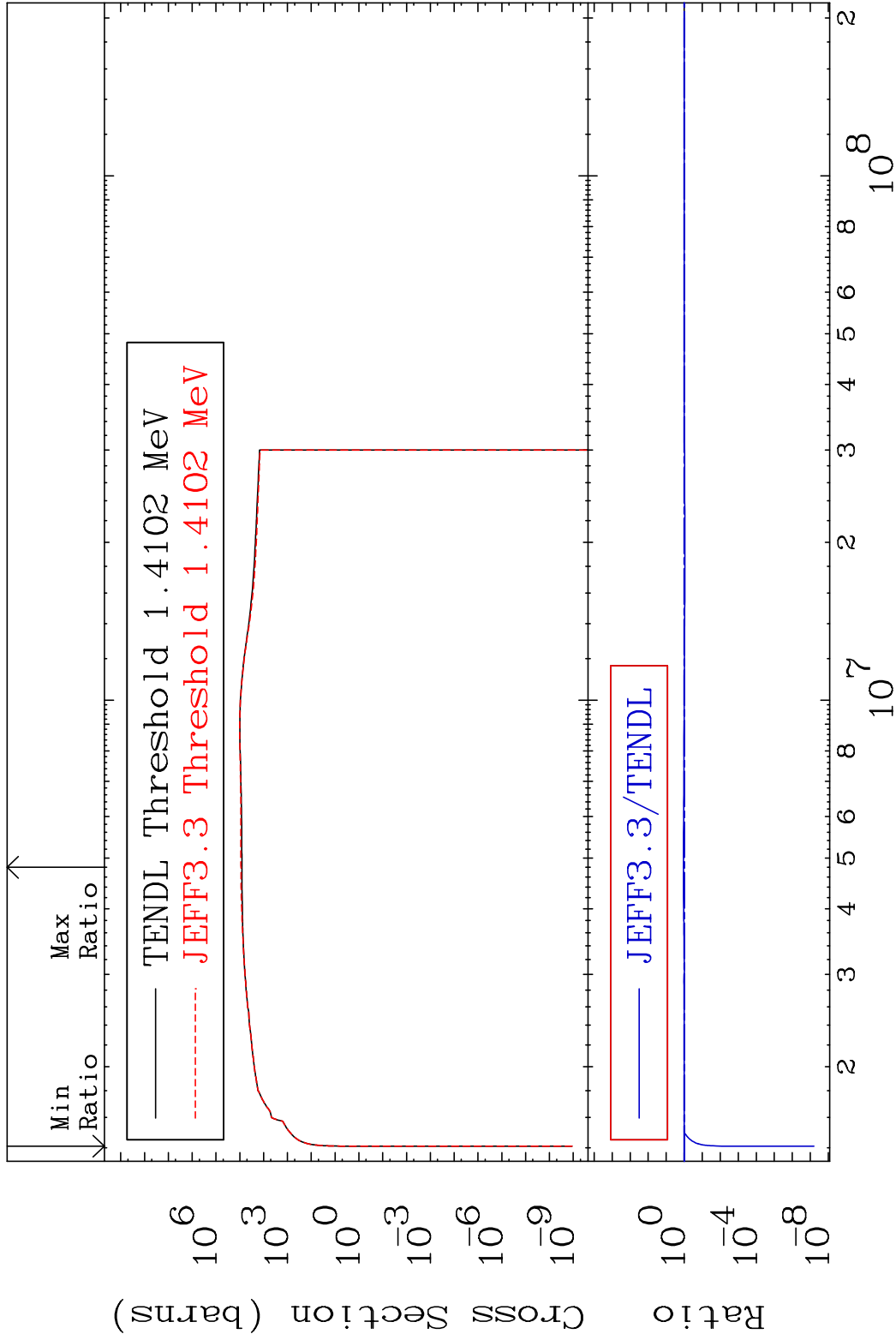


60

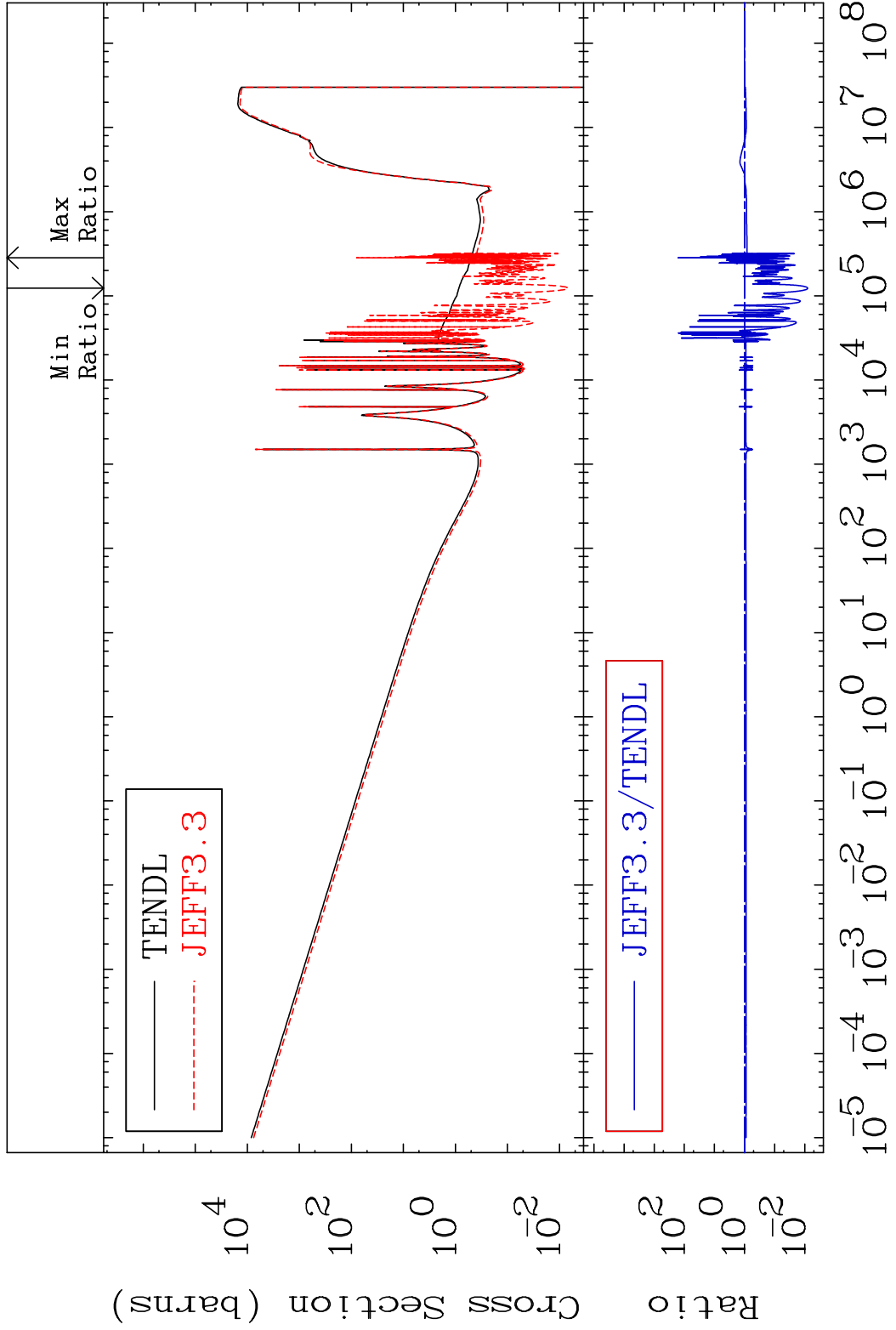
Incident Energy (eV)

22-Ti-49

MAT 2234 Dpa inelastic (mt51-91) ²²Ti-49
 Cross Section -100.0 To 9.998 %

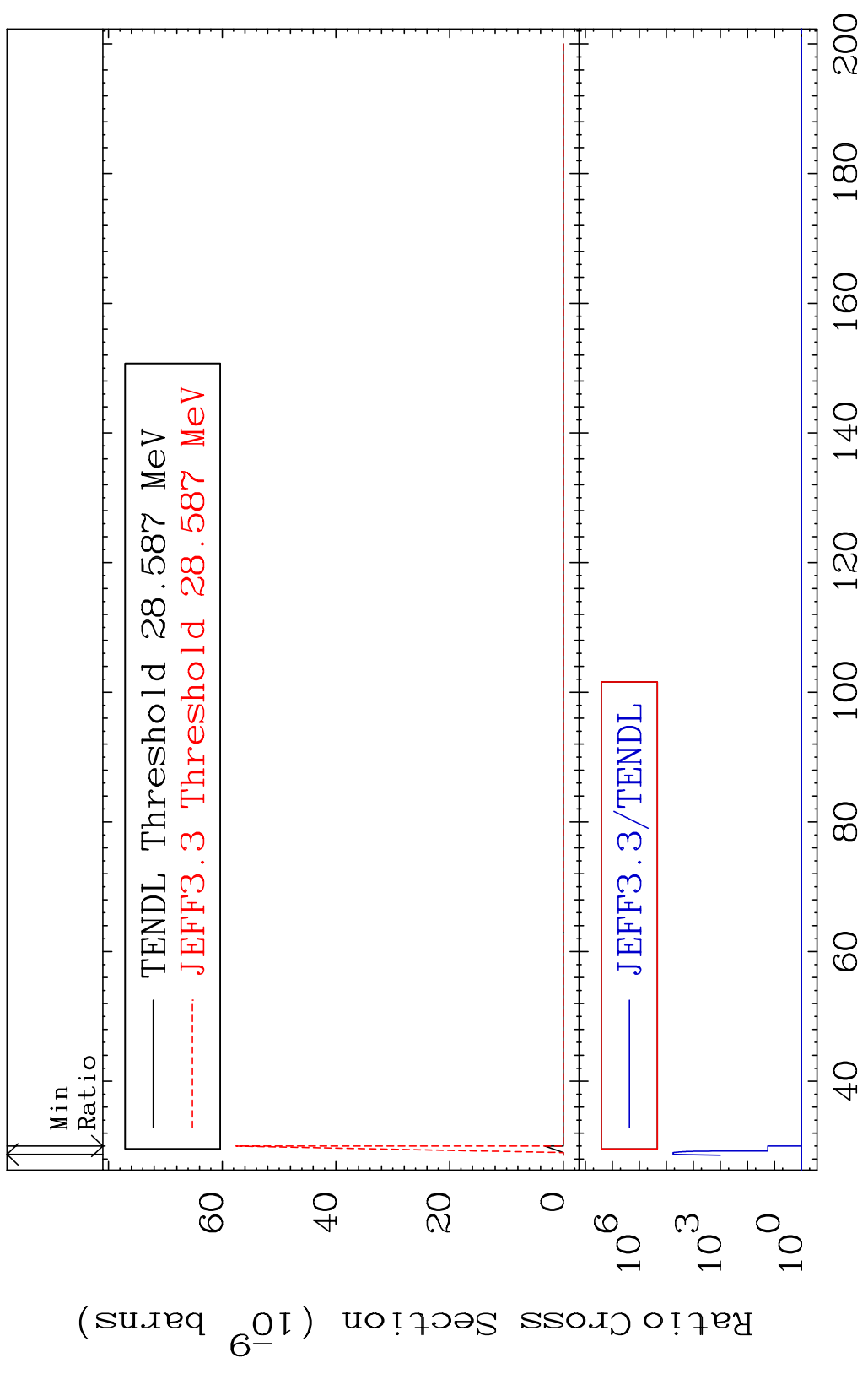


MAT 2234 Dpa disappearance (mt102 -120) 22-Ti-49
 Cross Section -99.19 To 9999. %



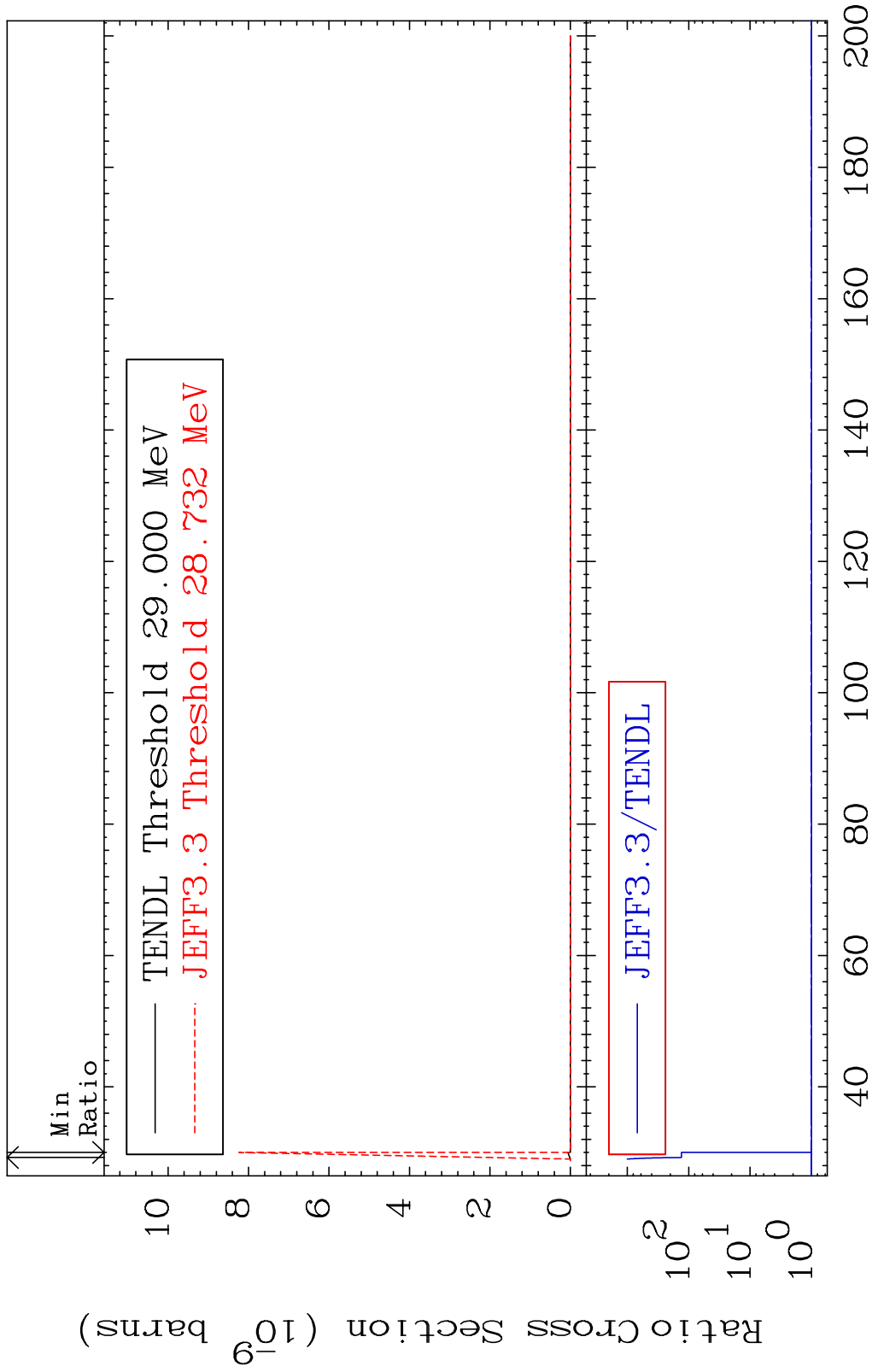
62 Incident Energy (eV) 22-Ti-49

MAT 2234 (n,2n) d:21-Sc-46g 22-Ti-49
 Radionuclide Production Cross Section 9999. %



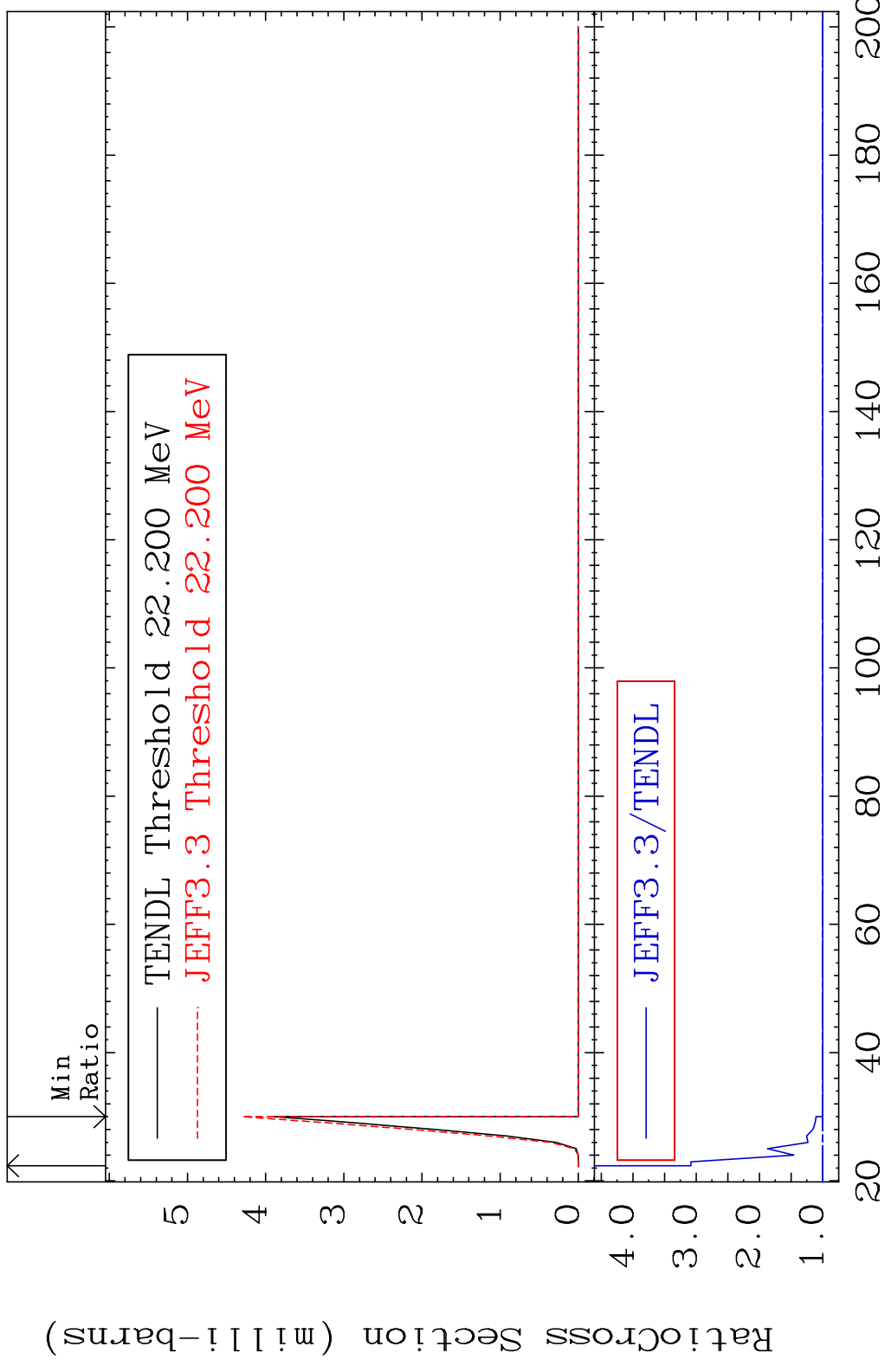
63 Incident Energy (MeV) 22-Ti-49

MAT 2234 (n,2n) d:21-Sc-46m2 22-Ti-49
 Radionuclide Production Cross Section 9999. %



64 Incident Energy (MeV) 22-Ti-49

MAT 2234 (n, n') t:21-Sc-46g 22-Ti-49
 Radionuclide Production Cross Section 208.4 %



65 22-Ti-49

MAT 2234 (n, n') t:21-Sc-46m2 22-Ti-49
 Radionuclide Production Cross Section 9037. %

