

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

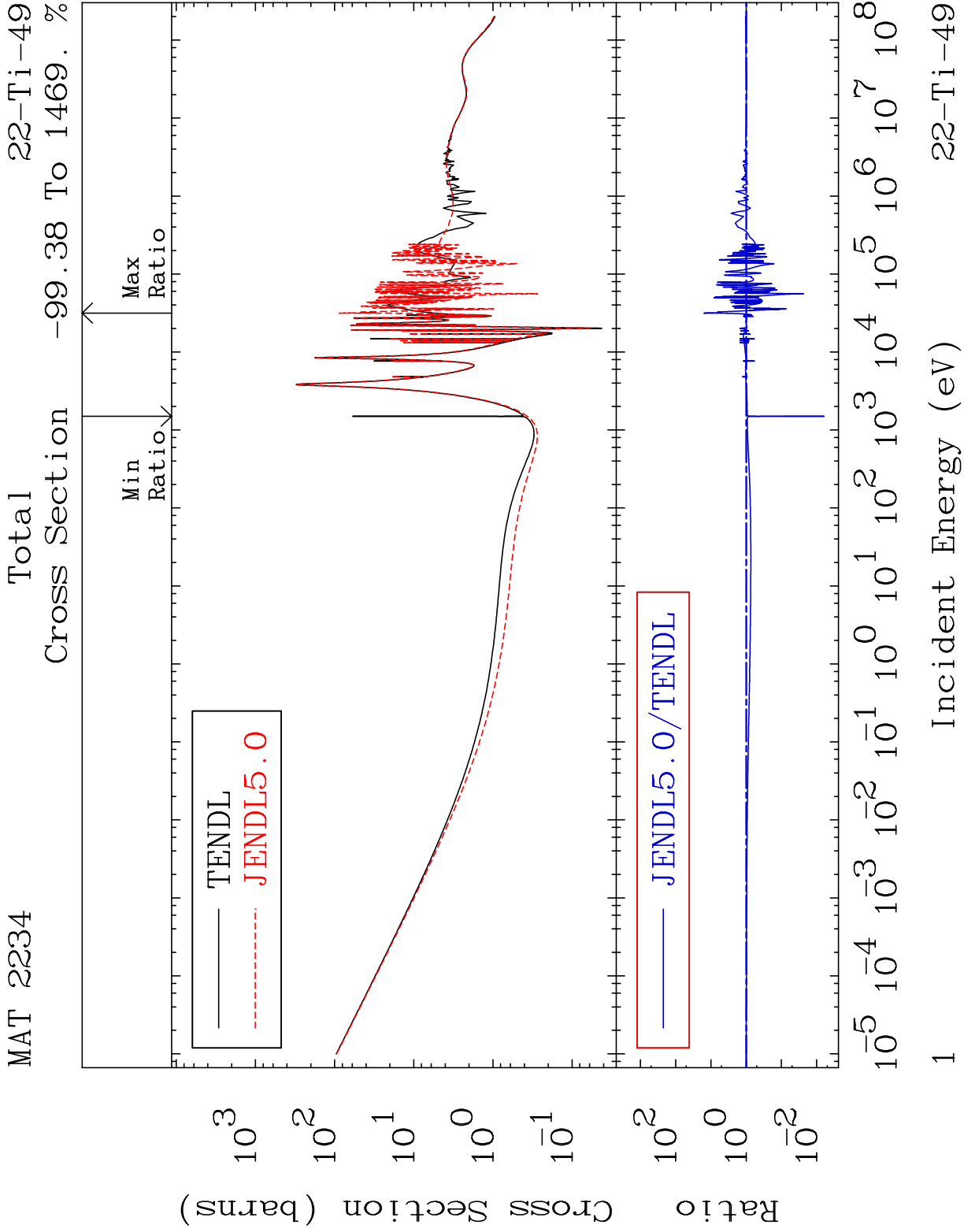
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Press Mouse Button to Start

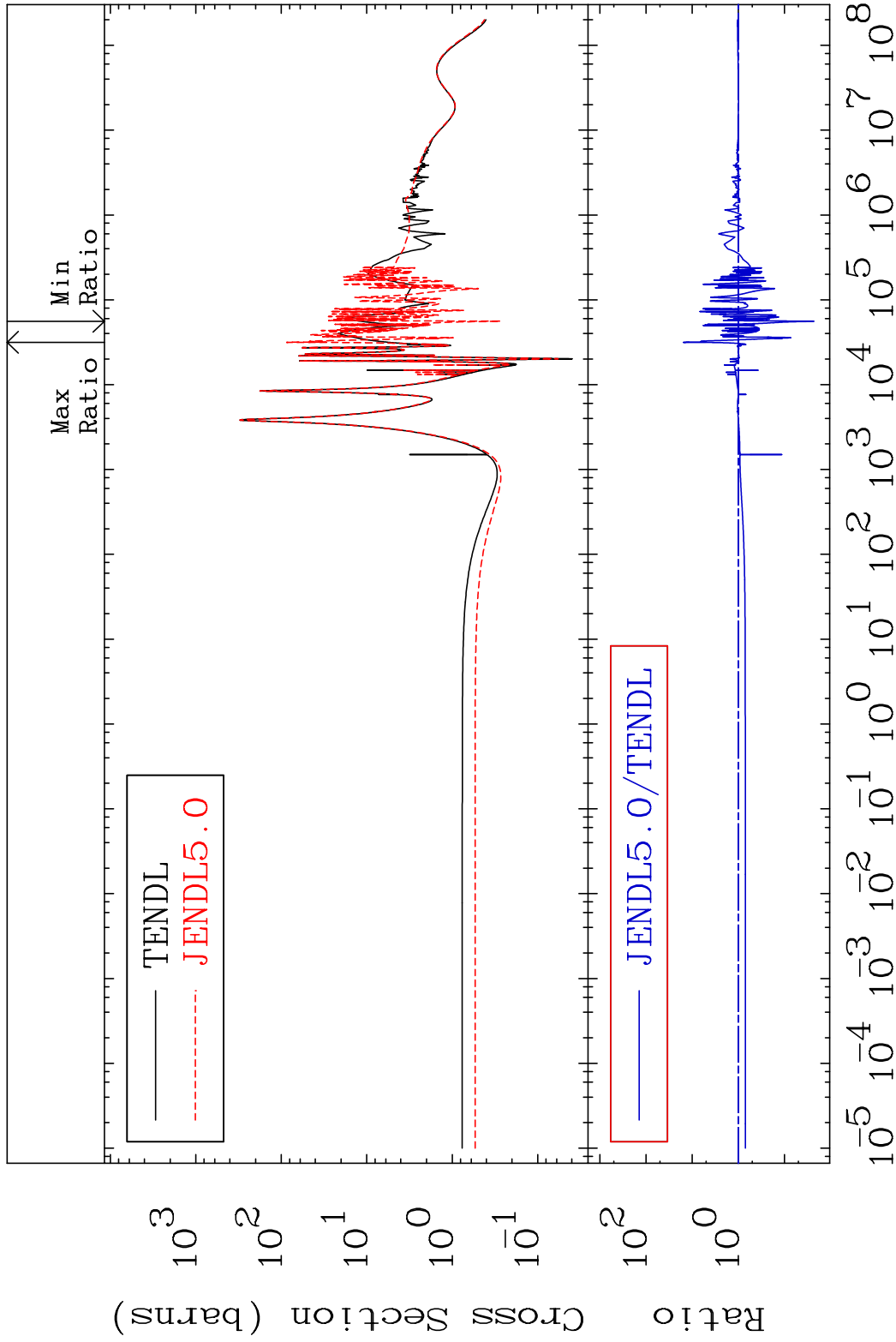


MAT 2234

Elastic

22-Ti-49

Cross Section -97.69 To 1447. %



2

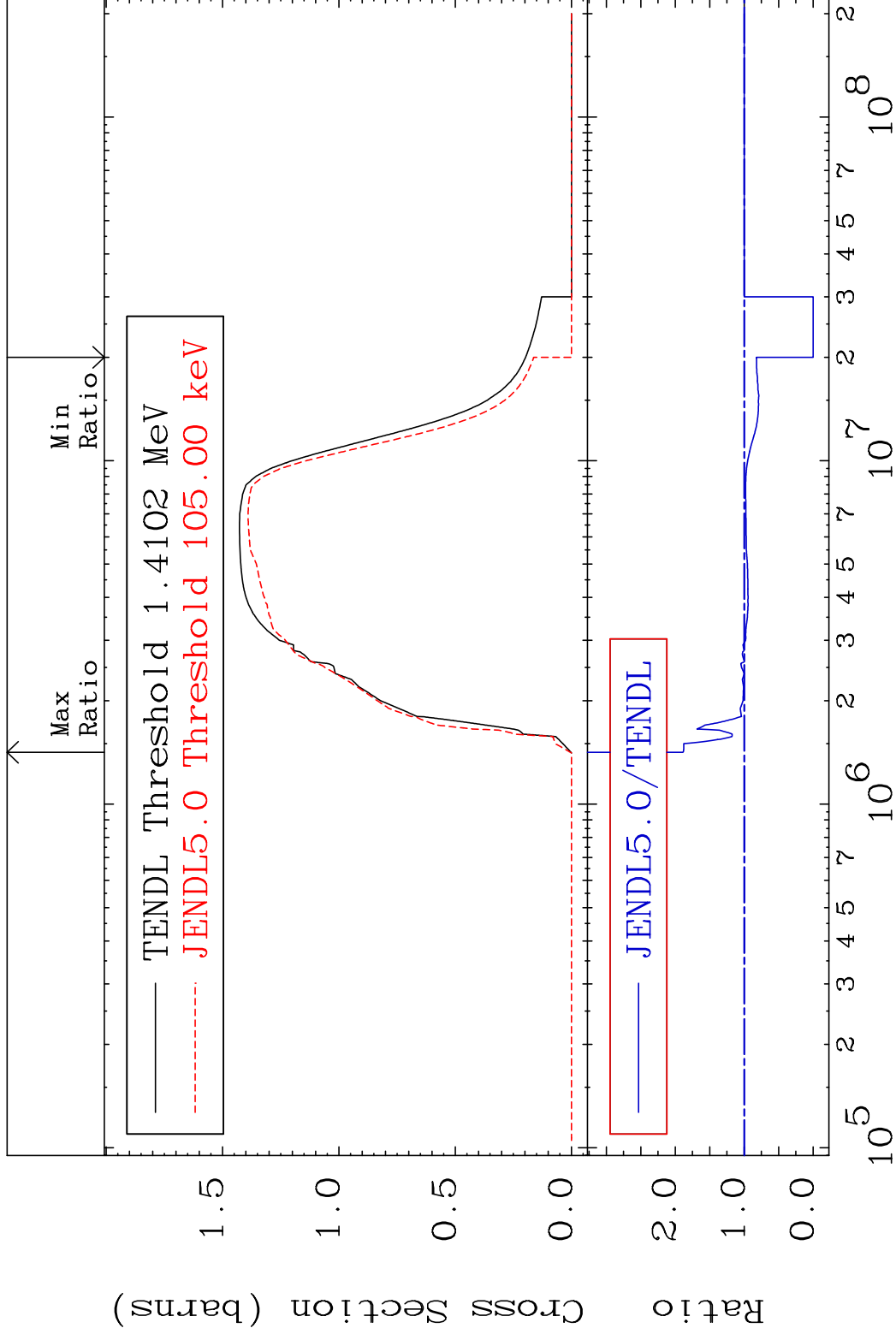
Incident Energy (eV)

22-Ti-49

MAT 2234

Inelastic
Cross Section -100.0 To 89.04 %

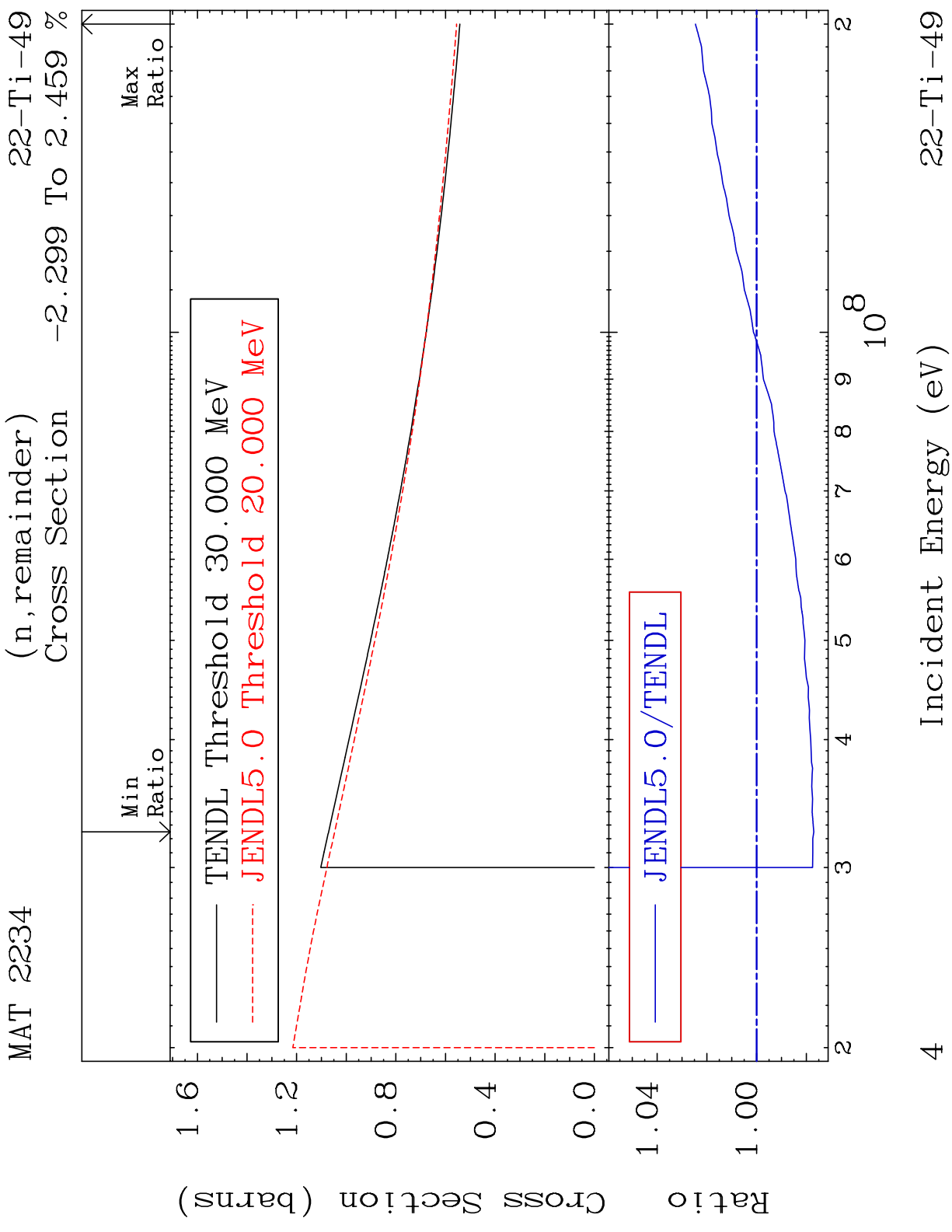
²²Ti-49

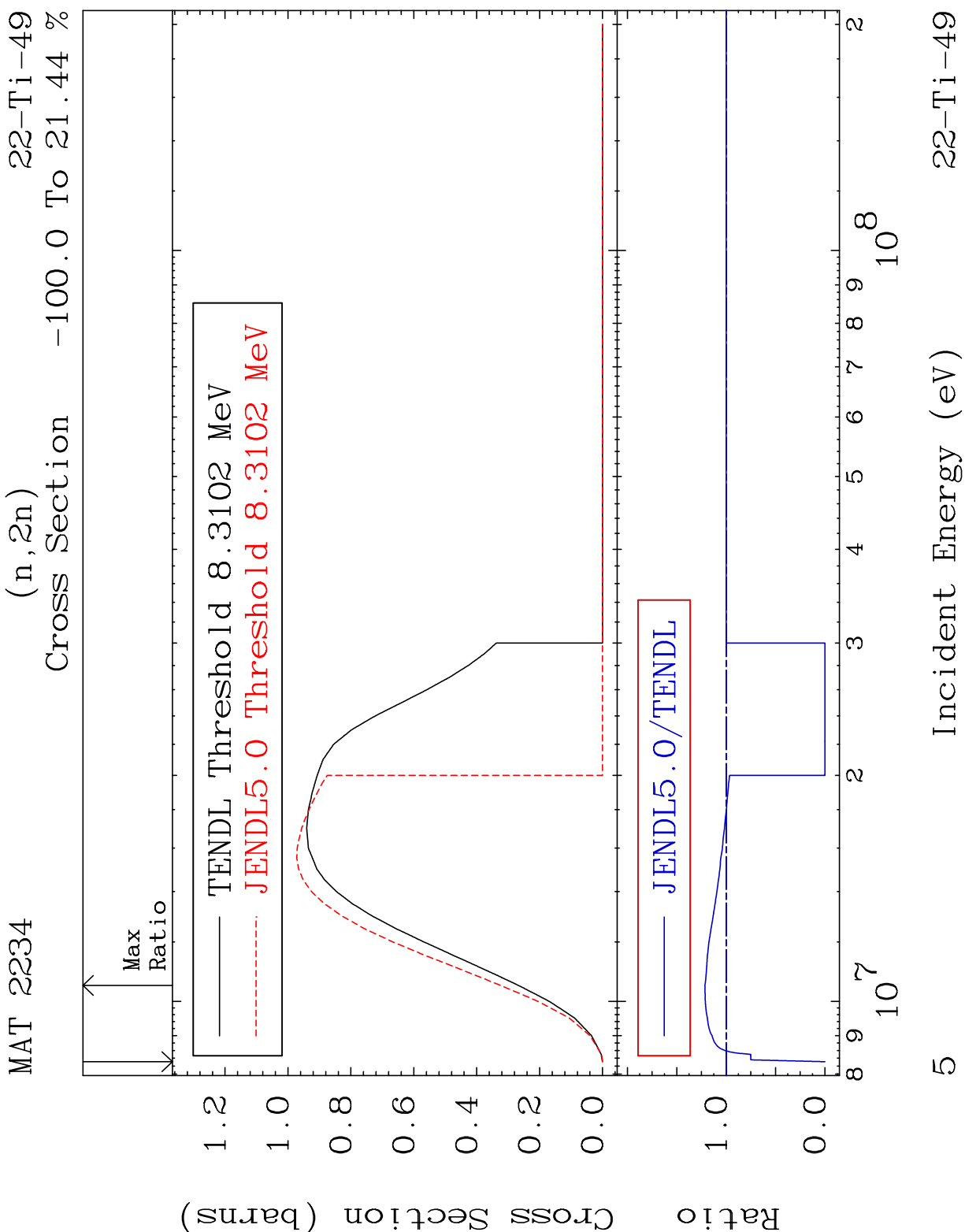


3

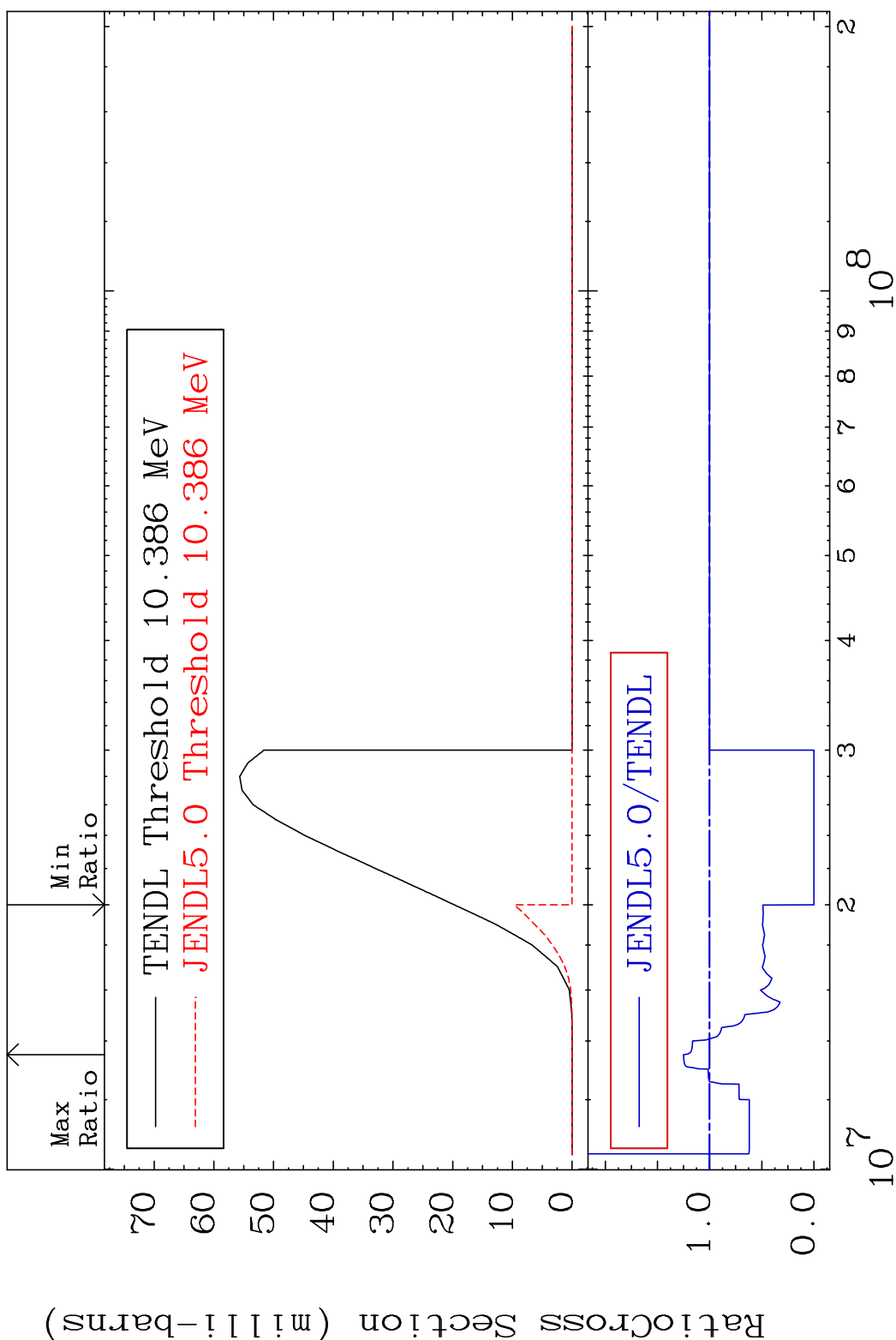
Incident Energy (eV)

²²Ti-49

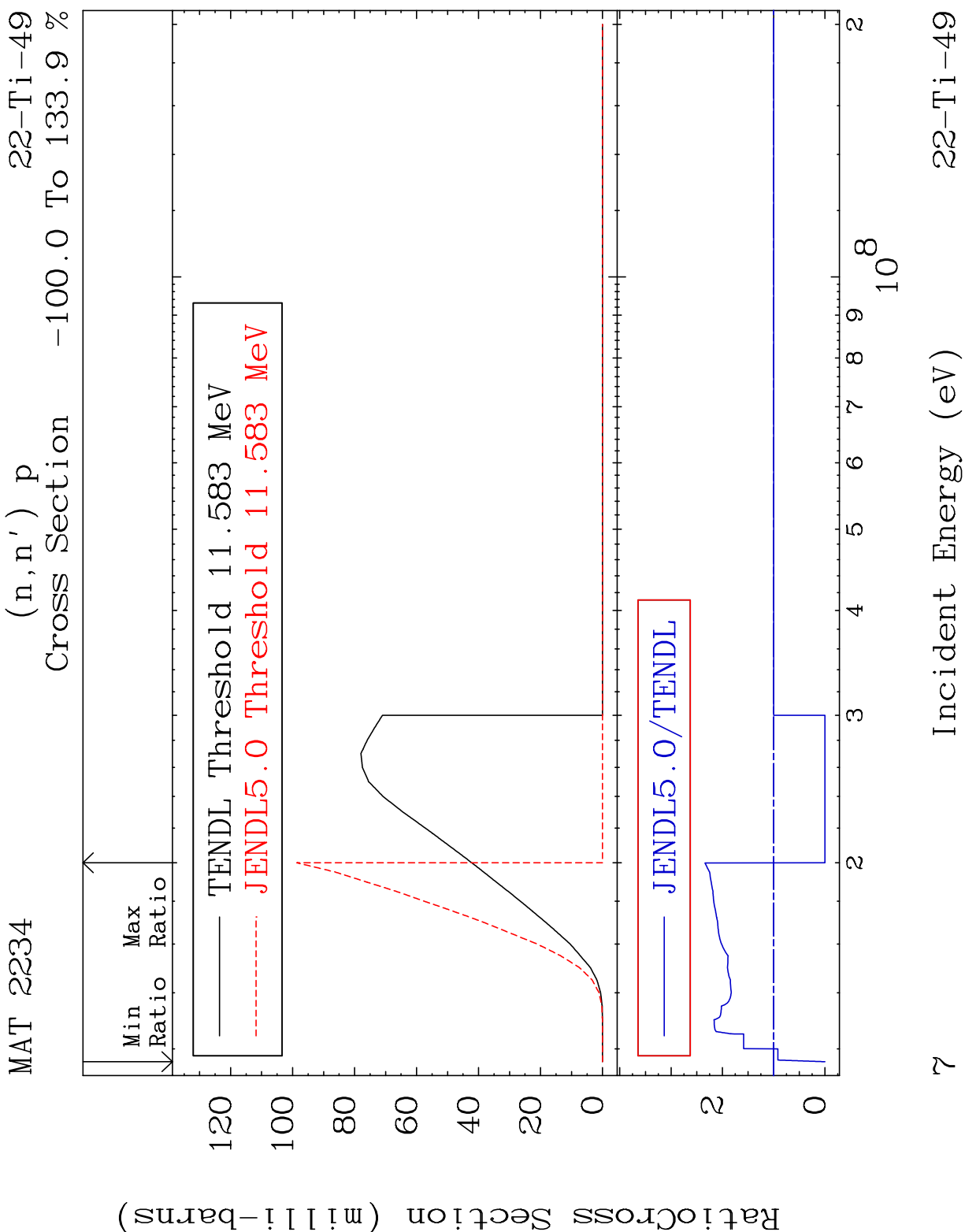




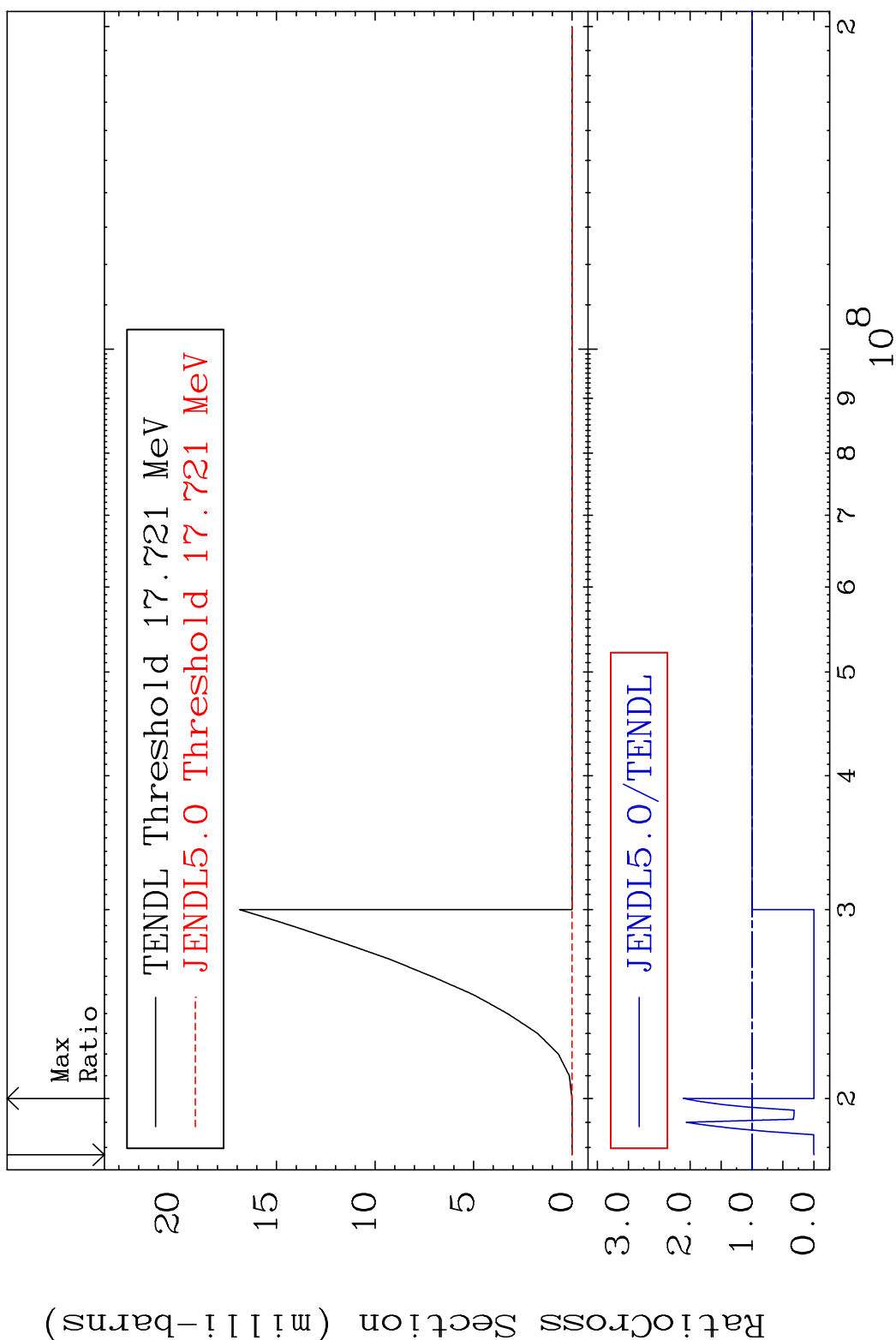
MAT 2234 (n, n') α $^{22}\text{Ti}-49$
 Cross Section -100.0 To 25.08 %



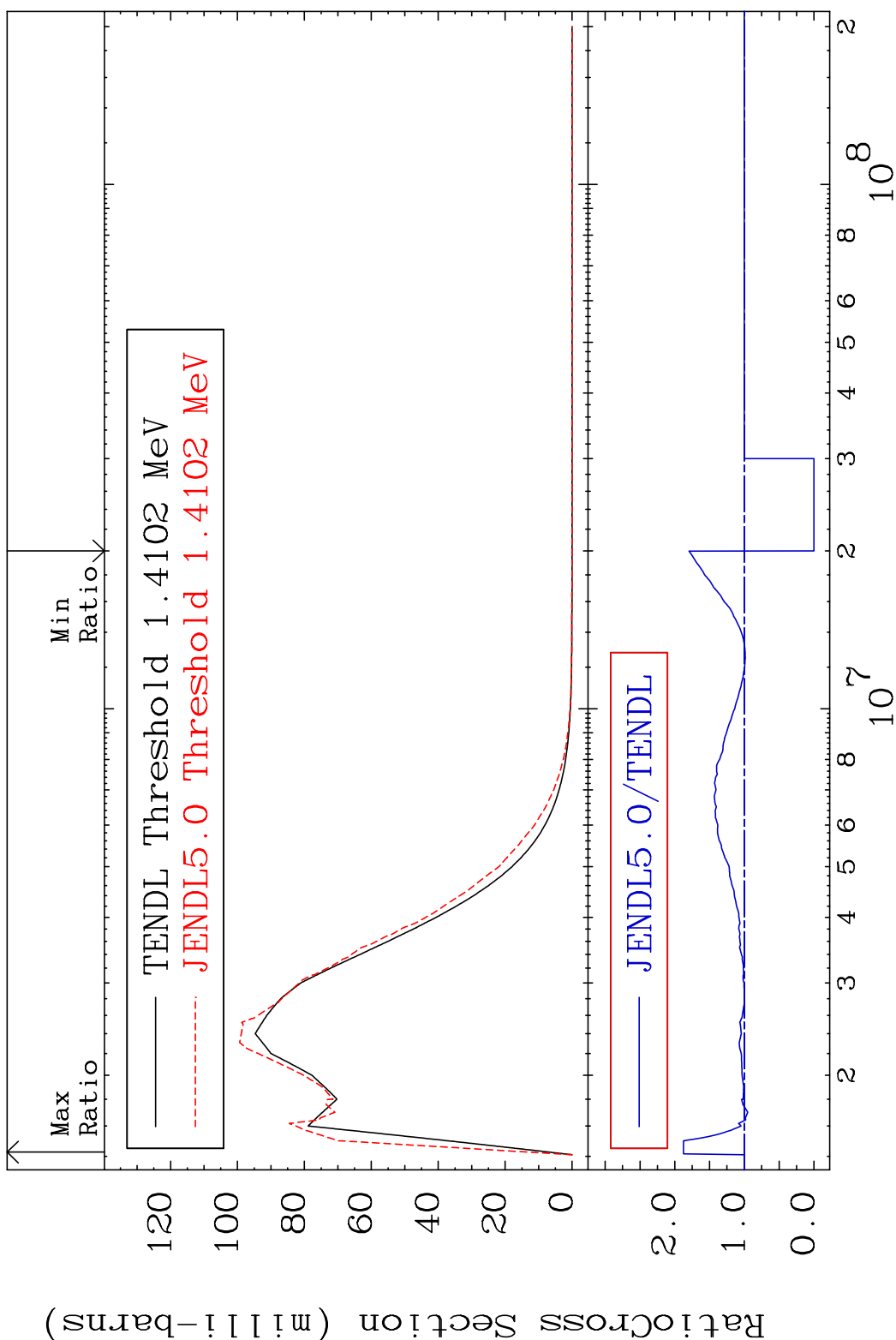
6 $^{22}\text{Ti}-49$



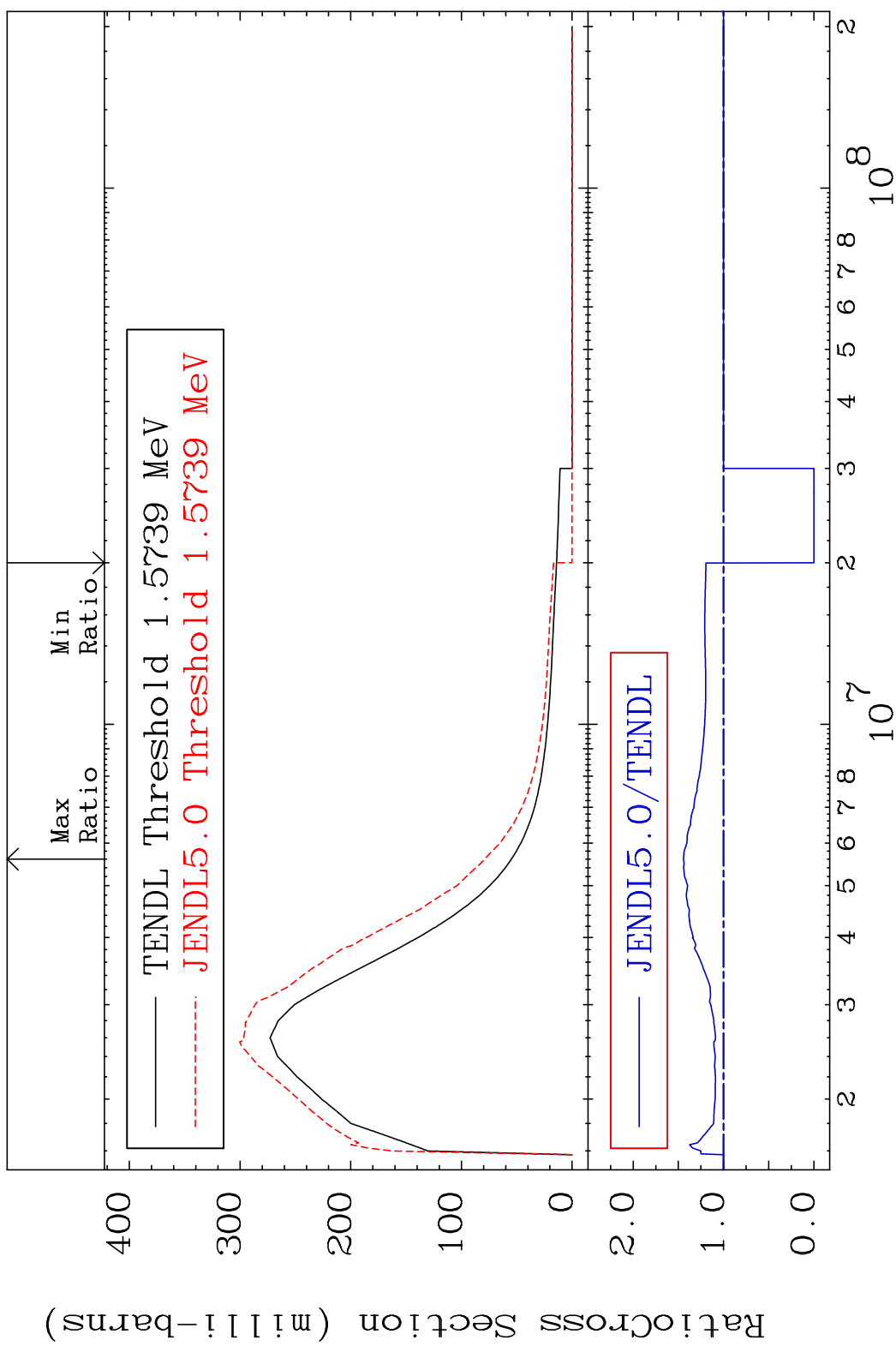
MAT 2234 (n, n') d 22-Ti-49
 Cross Section -100.0 To 110.9 %



MAT 2234 MT= 51 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 87.52 %

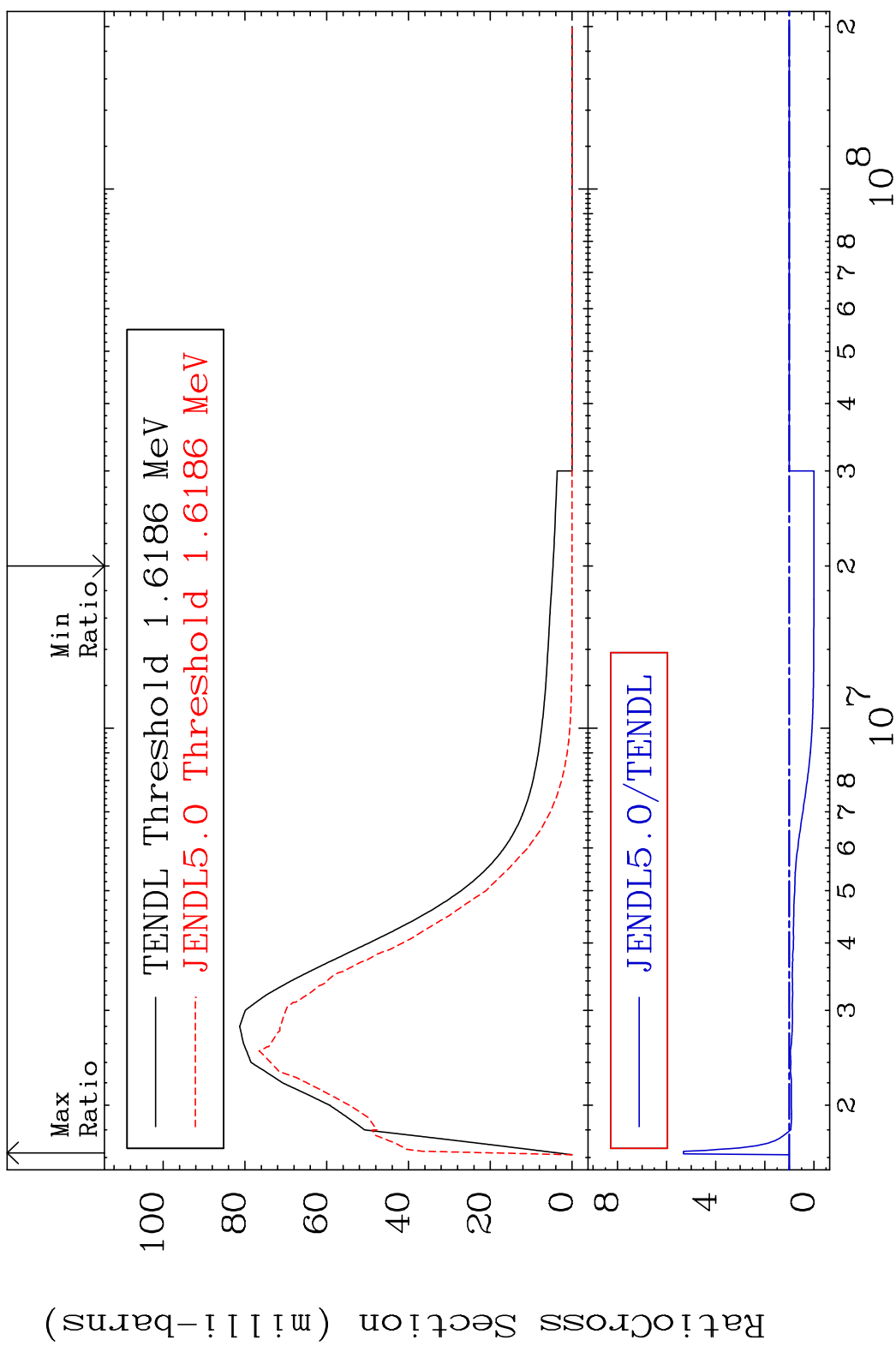


MAT 2234 MT= 52 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 44.34 %



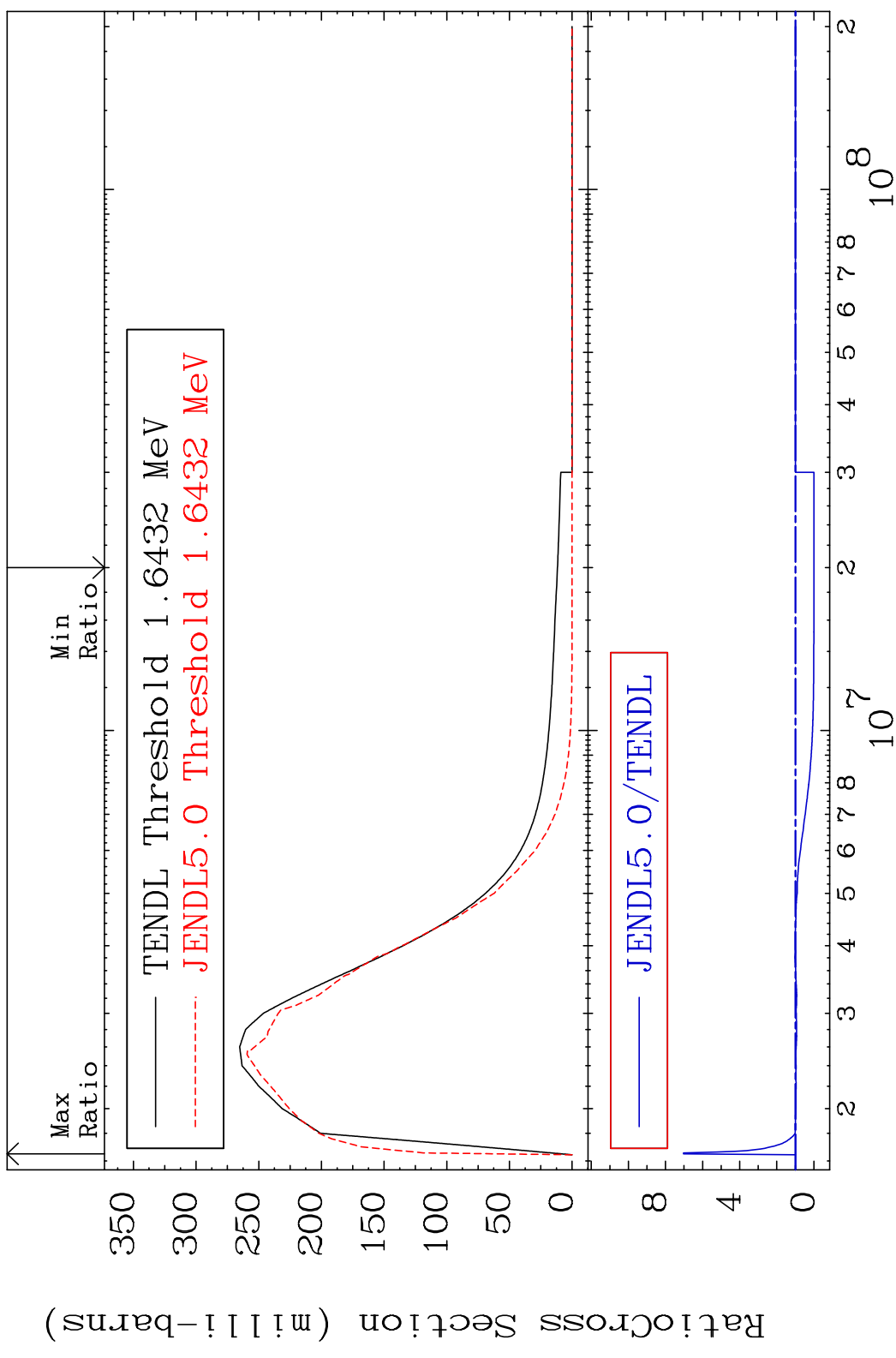
10 2 3 4 5 6 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 22-Ti-49

MAT 2234 MT= 53 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 431.4 %



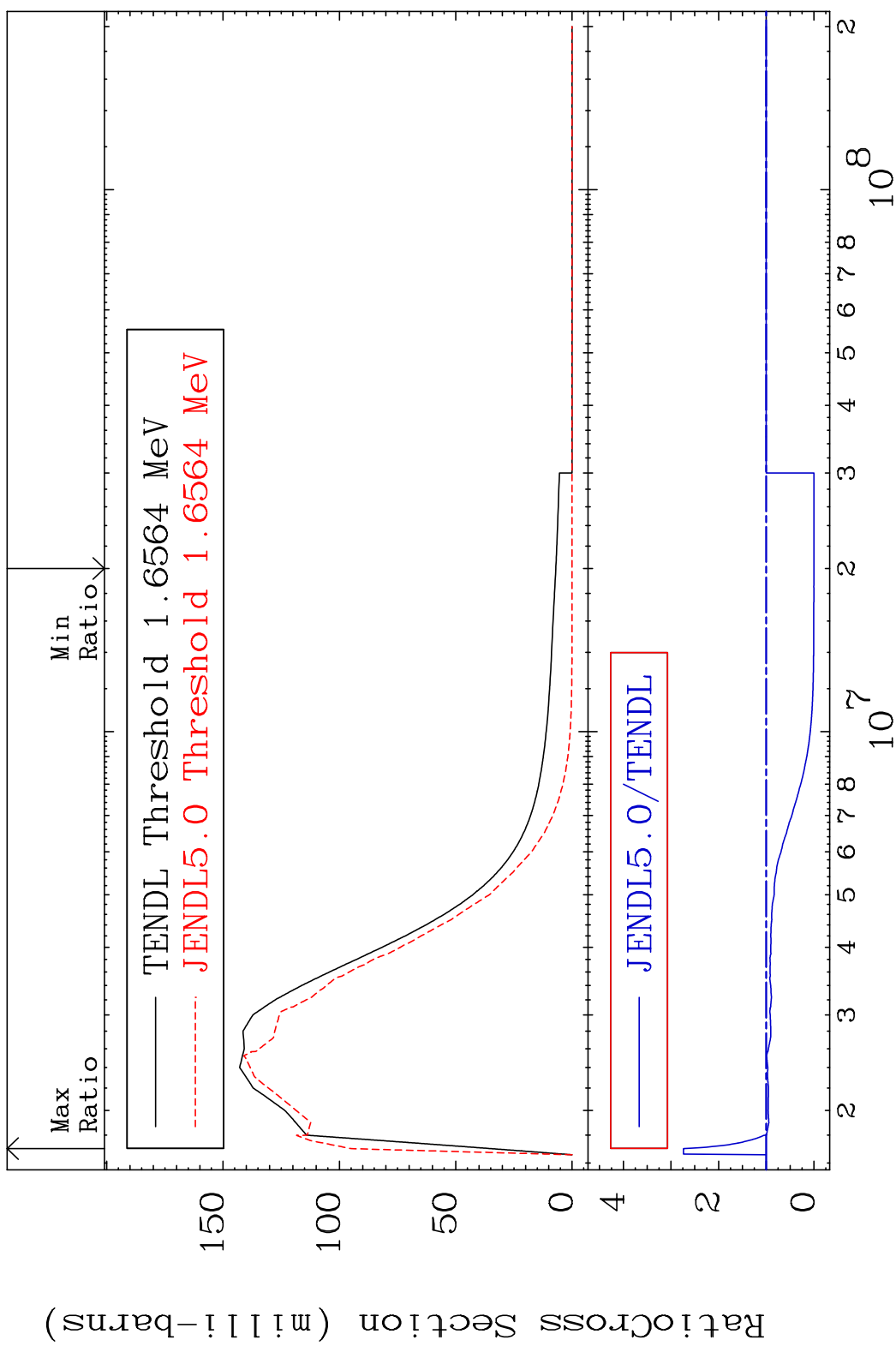
11 11 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 54 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 603.1 %



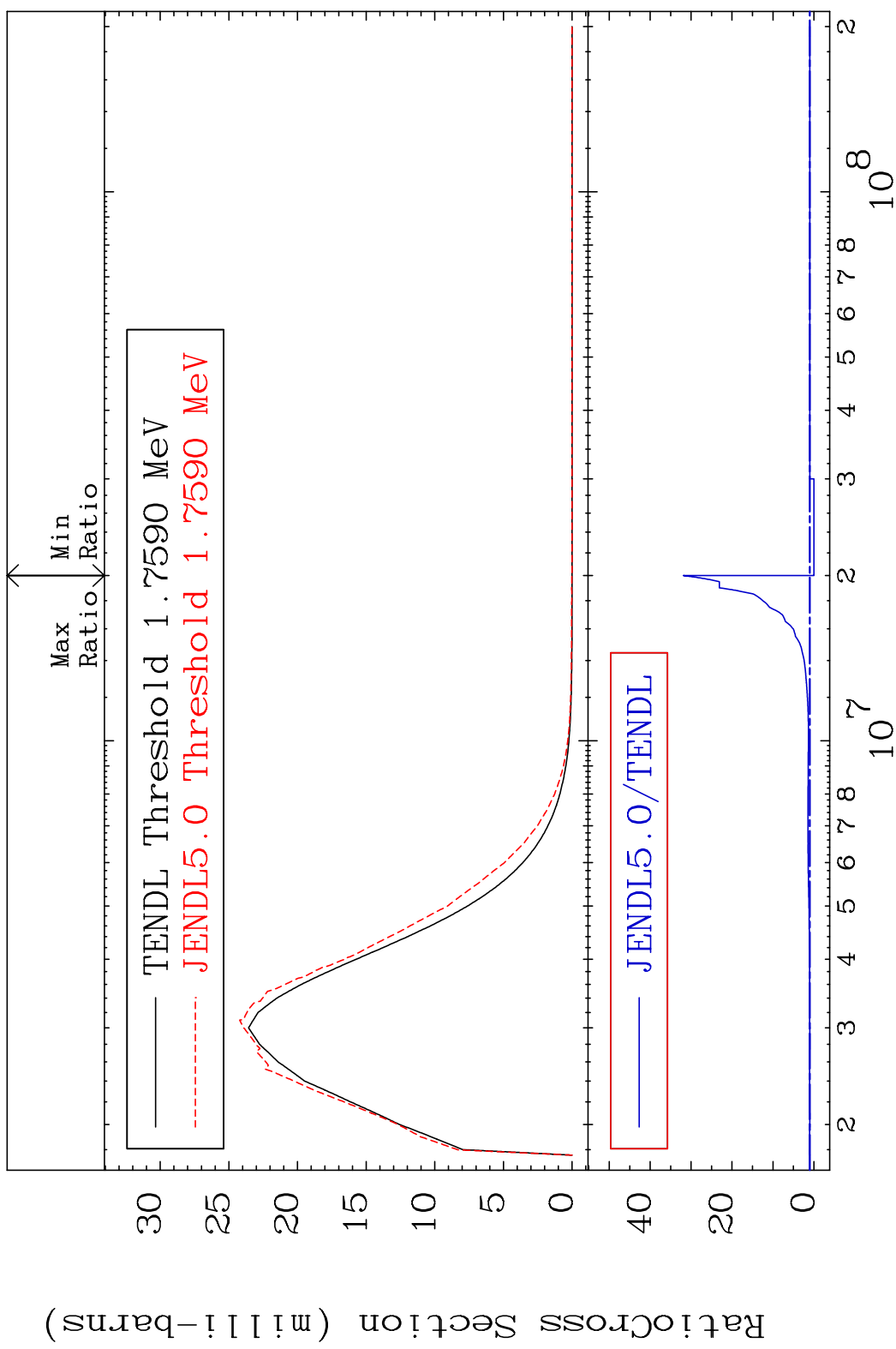
12 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 55 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 173.8 %



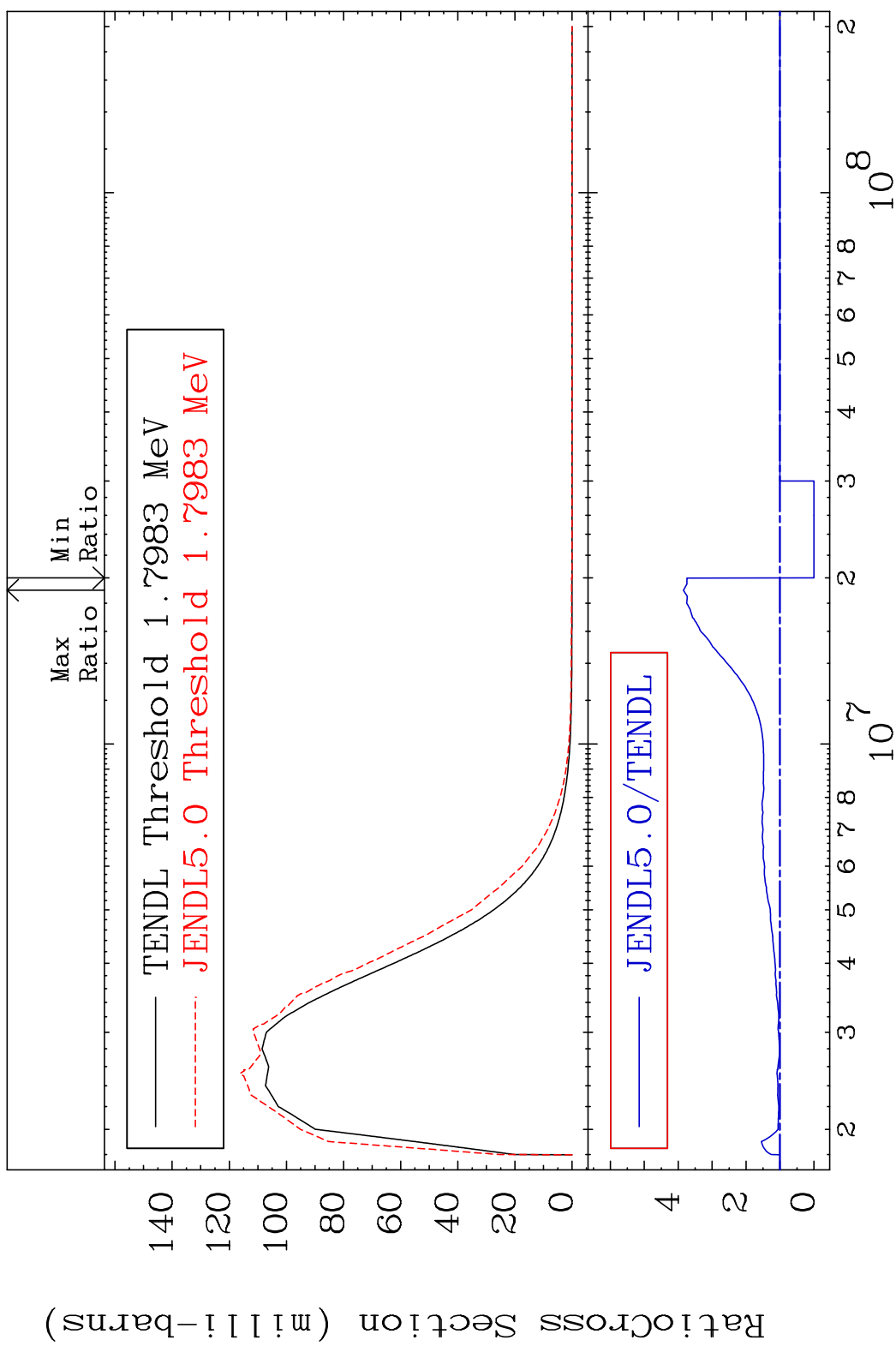
13 22-Ti-49

MAT 2234 MT= 56 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 3086. %



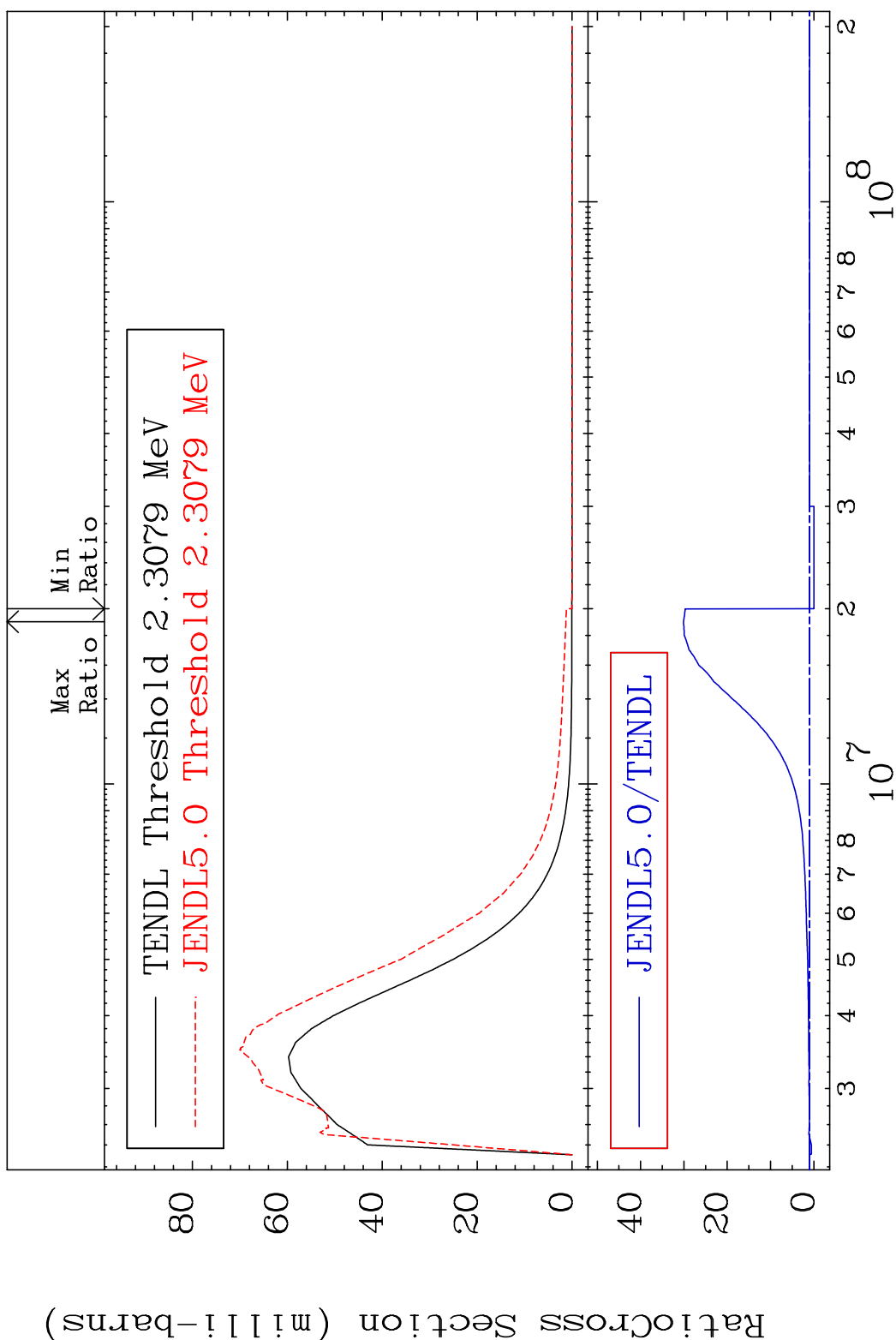
14 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 57 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 284.6 %



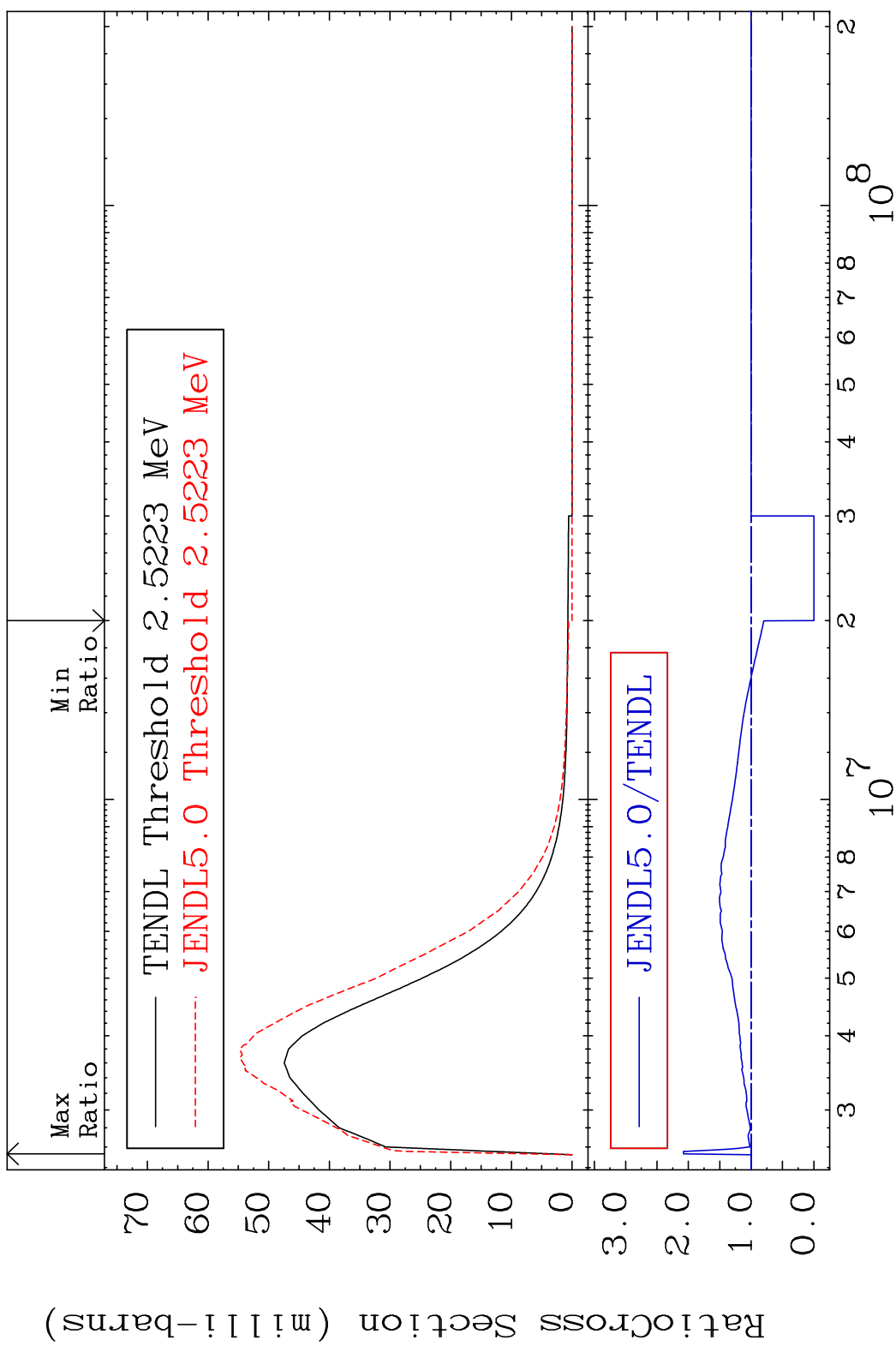
15 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 58 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 2911. %



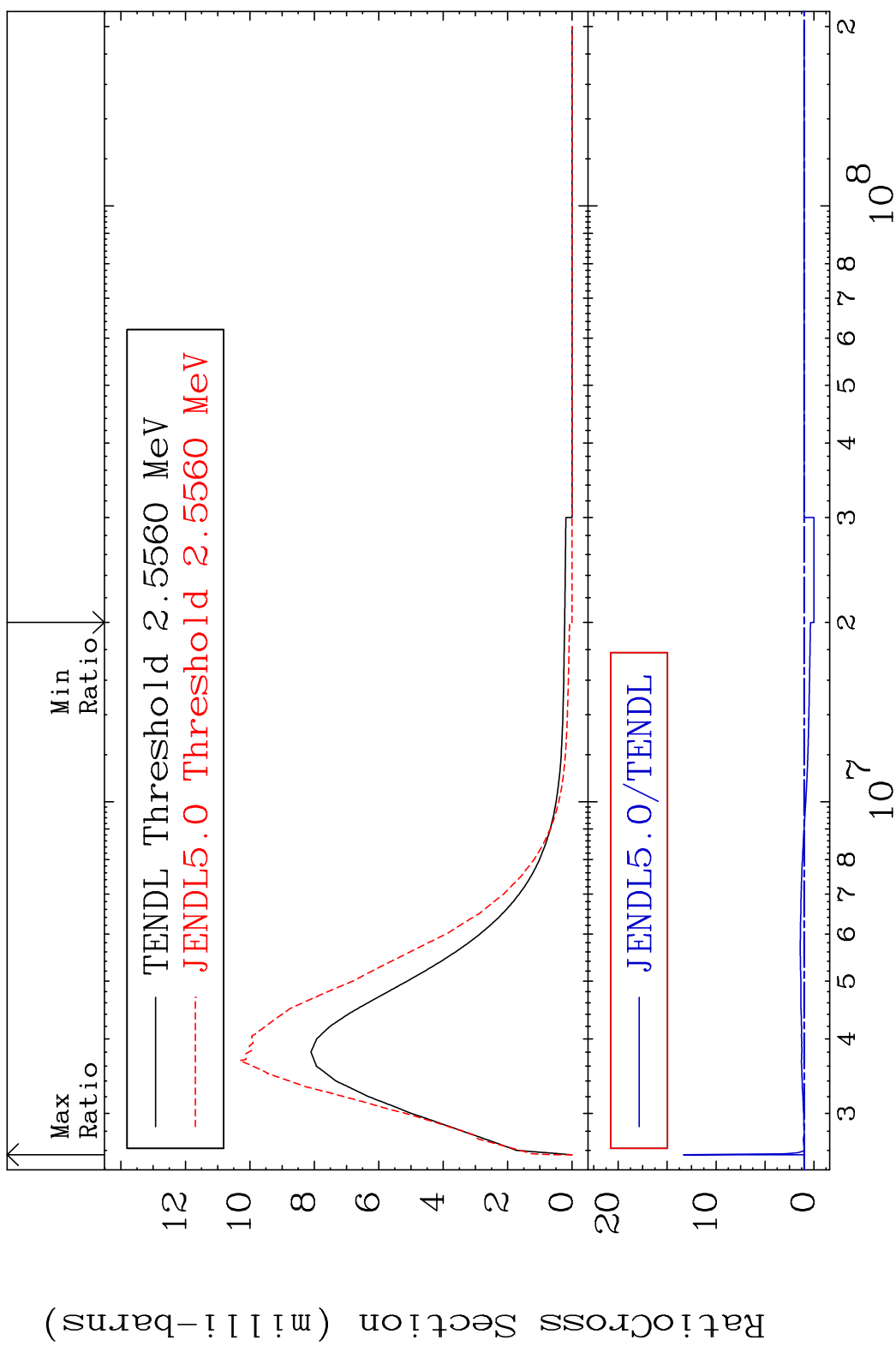
16 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 59 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 107.9 %



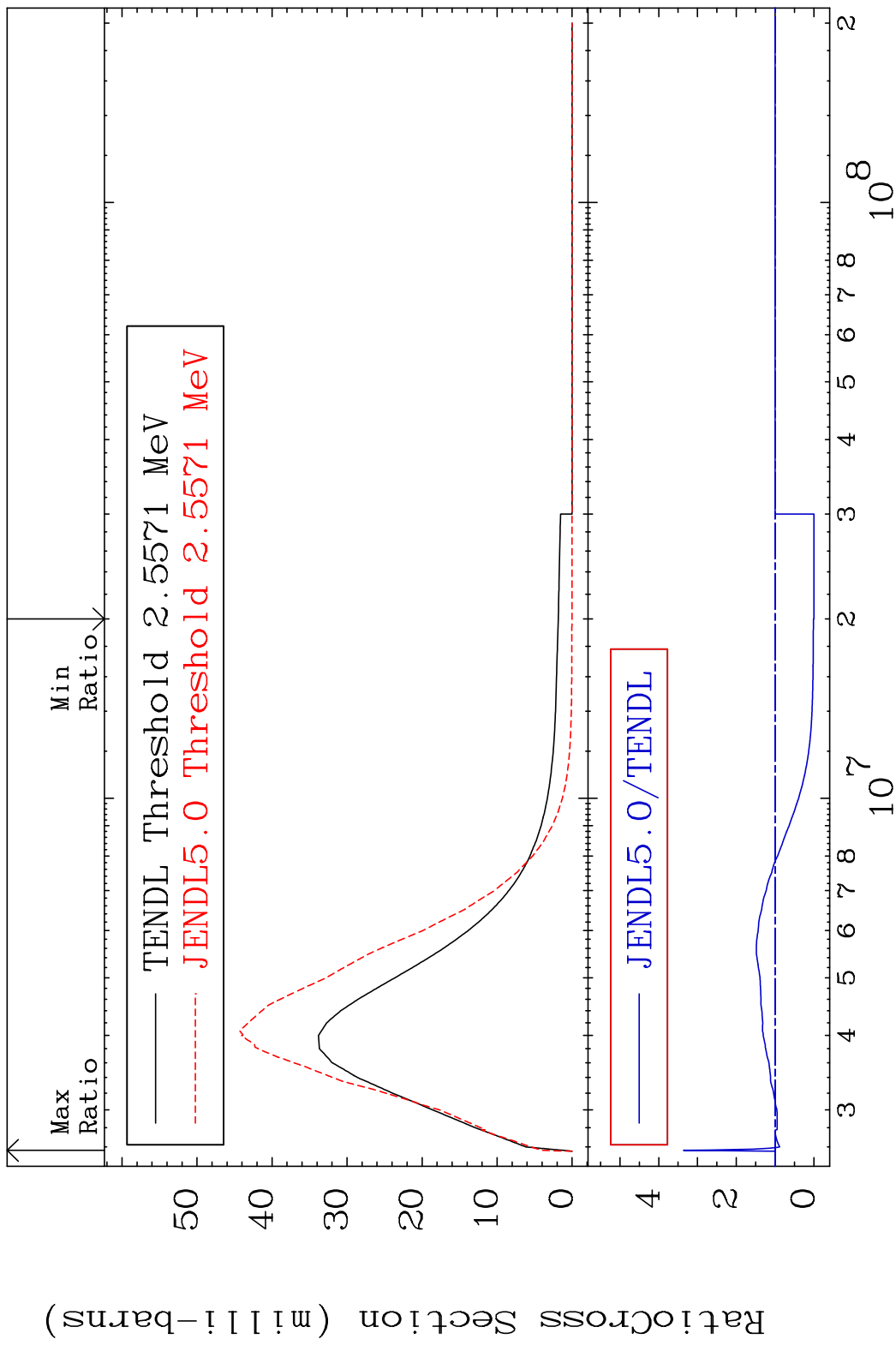
17 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 60 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 1233. %



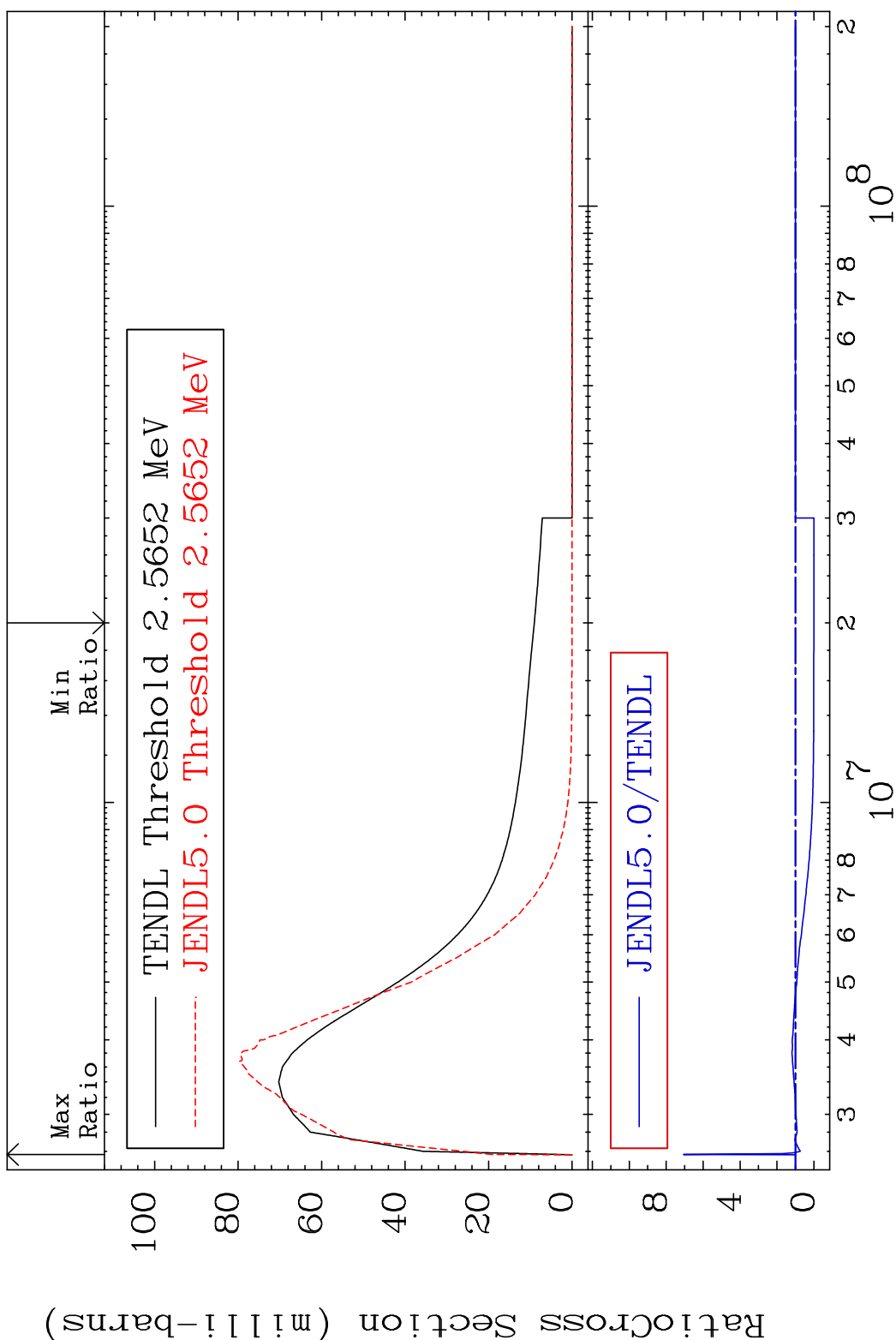
18 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 61 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 236.2 %



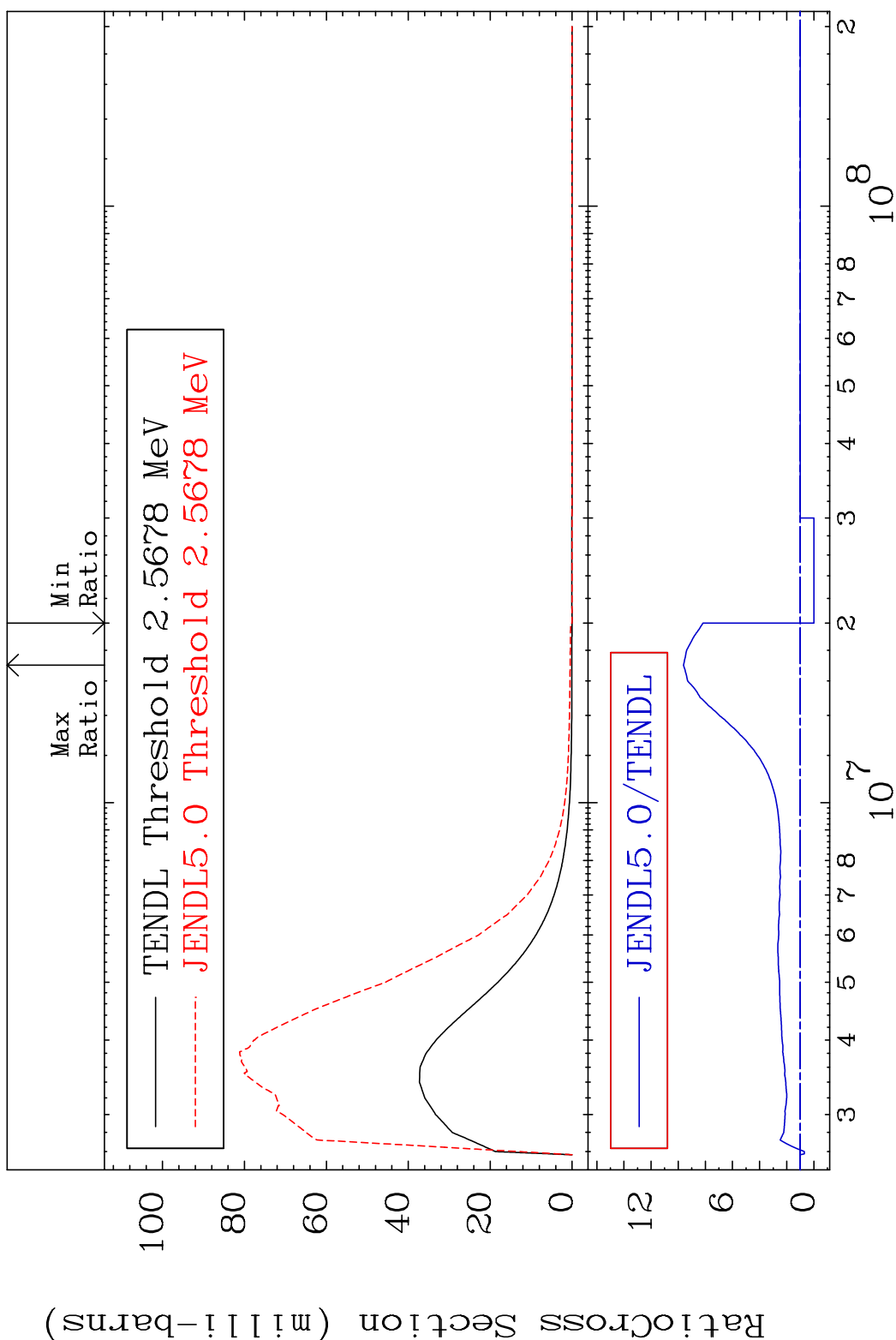
19 22-Ti-49

MAT 2234 MT= 62 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 606.5 %



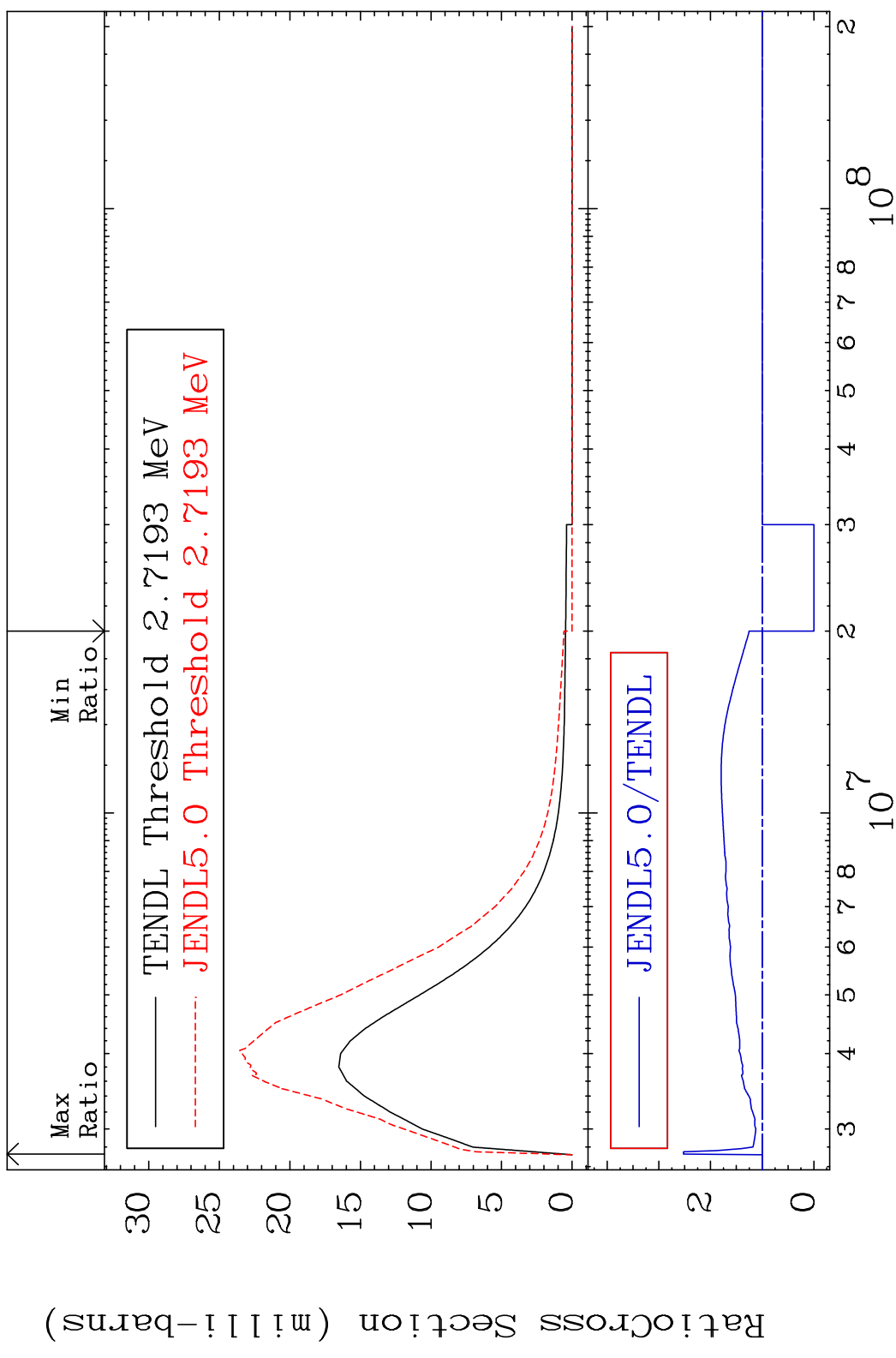
20 22-Ti-49

MAT 2234 MT= 63 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 861.3 %



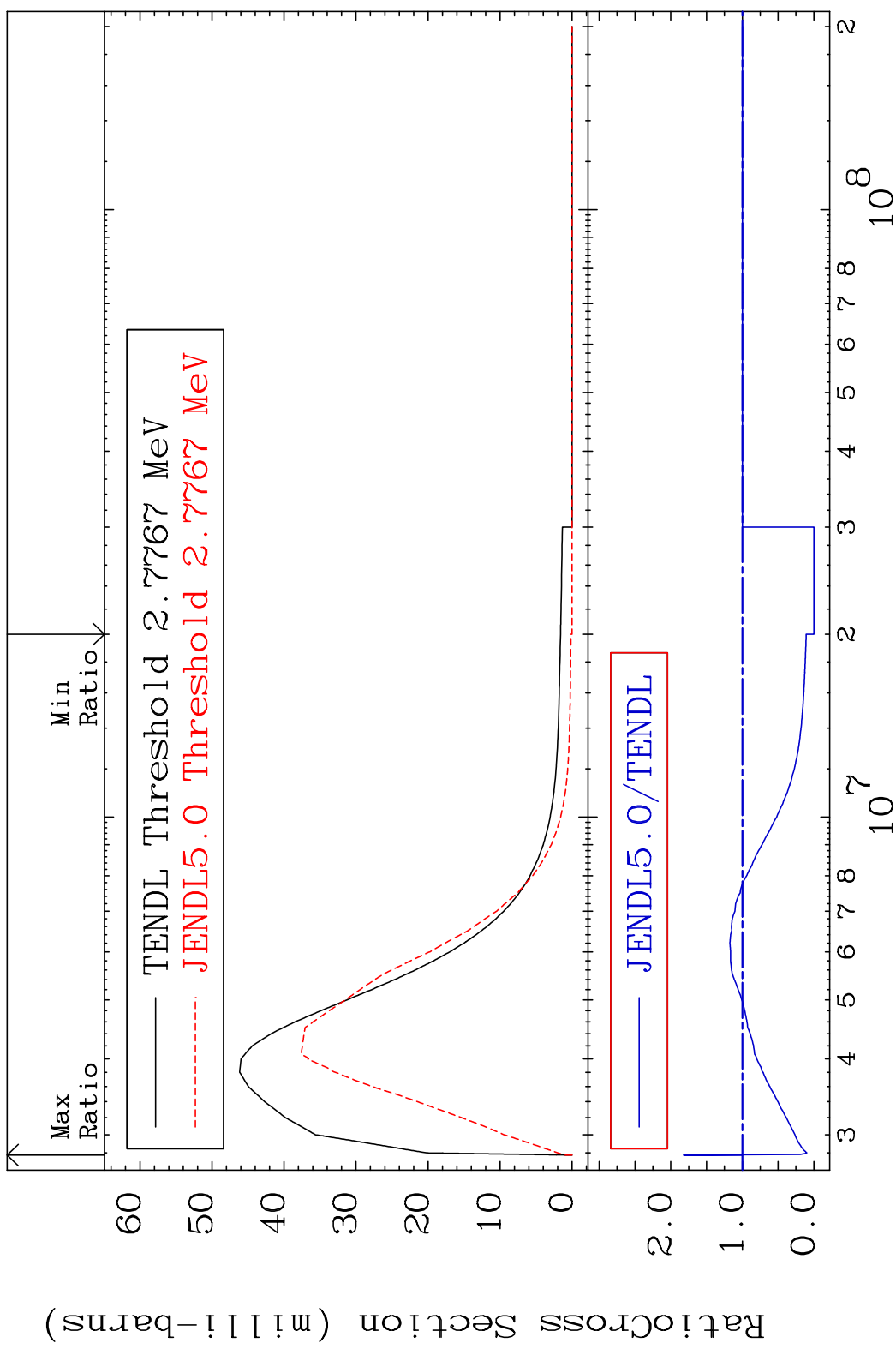
21 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 64 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 152.4 %

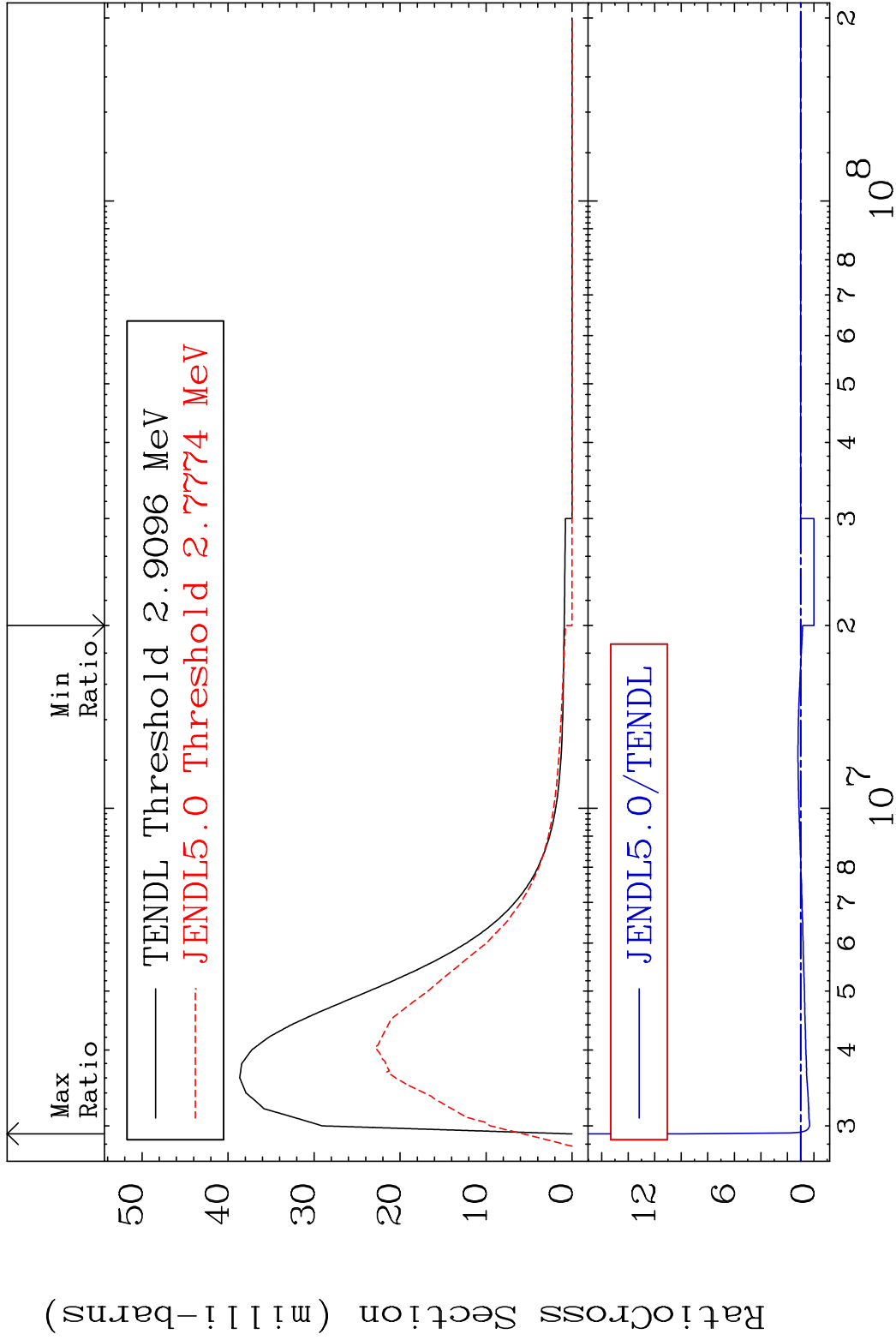


22 22-Ti-49

MAT 2234 MT= 65 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 82.26 %



MAT 2234 MT= 66 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 883.6 %

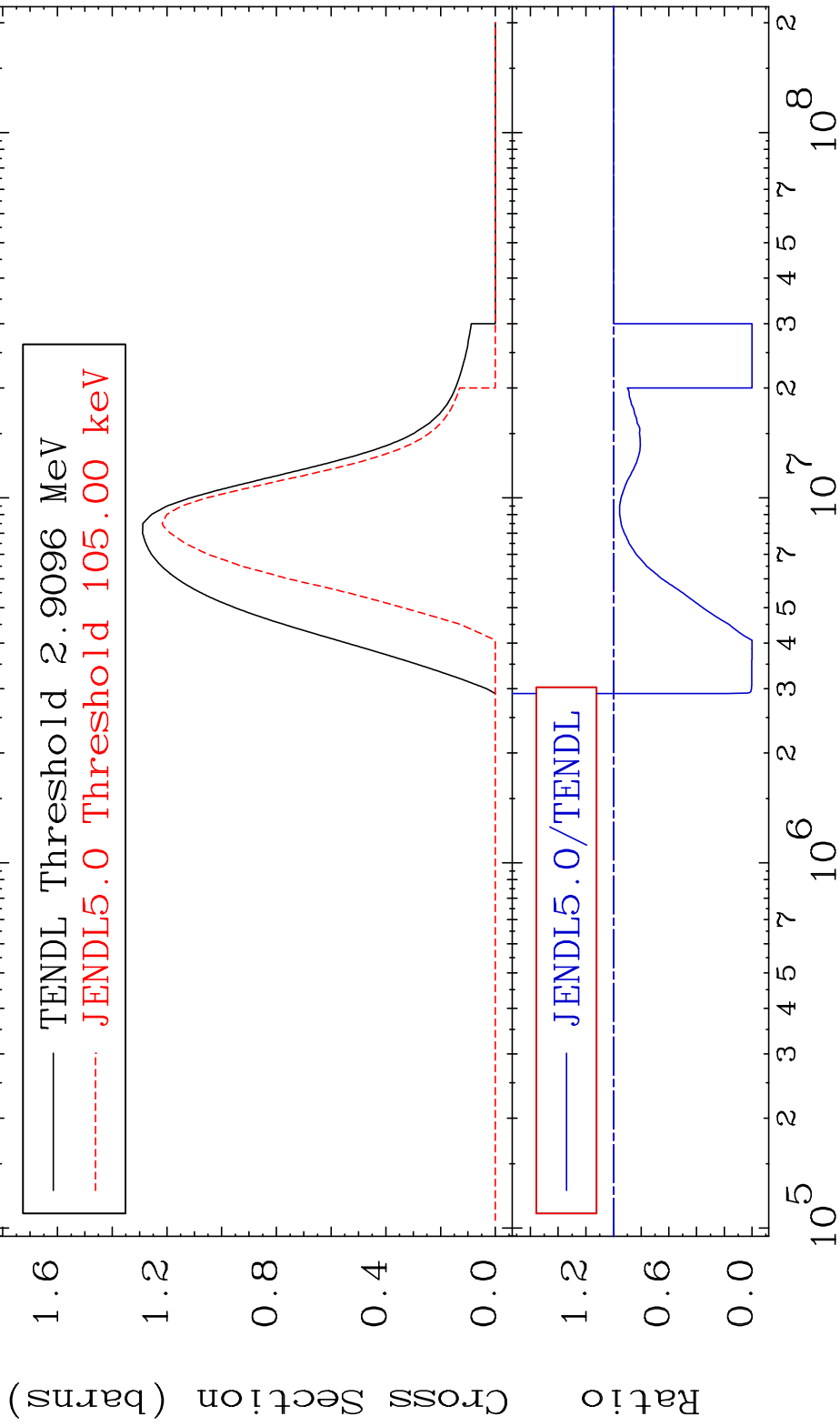


24 Incident Energy (eV) 22-Ti-49

MAT 2234

(n,n') Continuum
Cross Section -100.0 To 0.000 %

22-Ti-49



25

Incident Energy (eV)

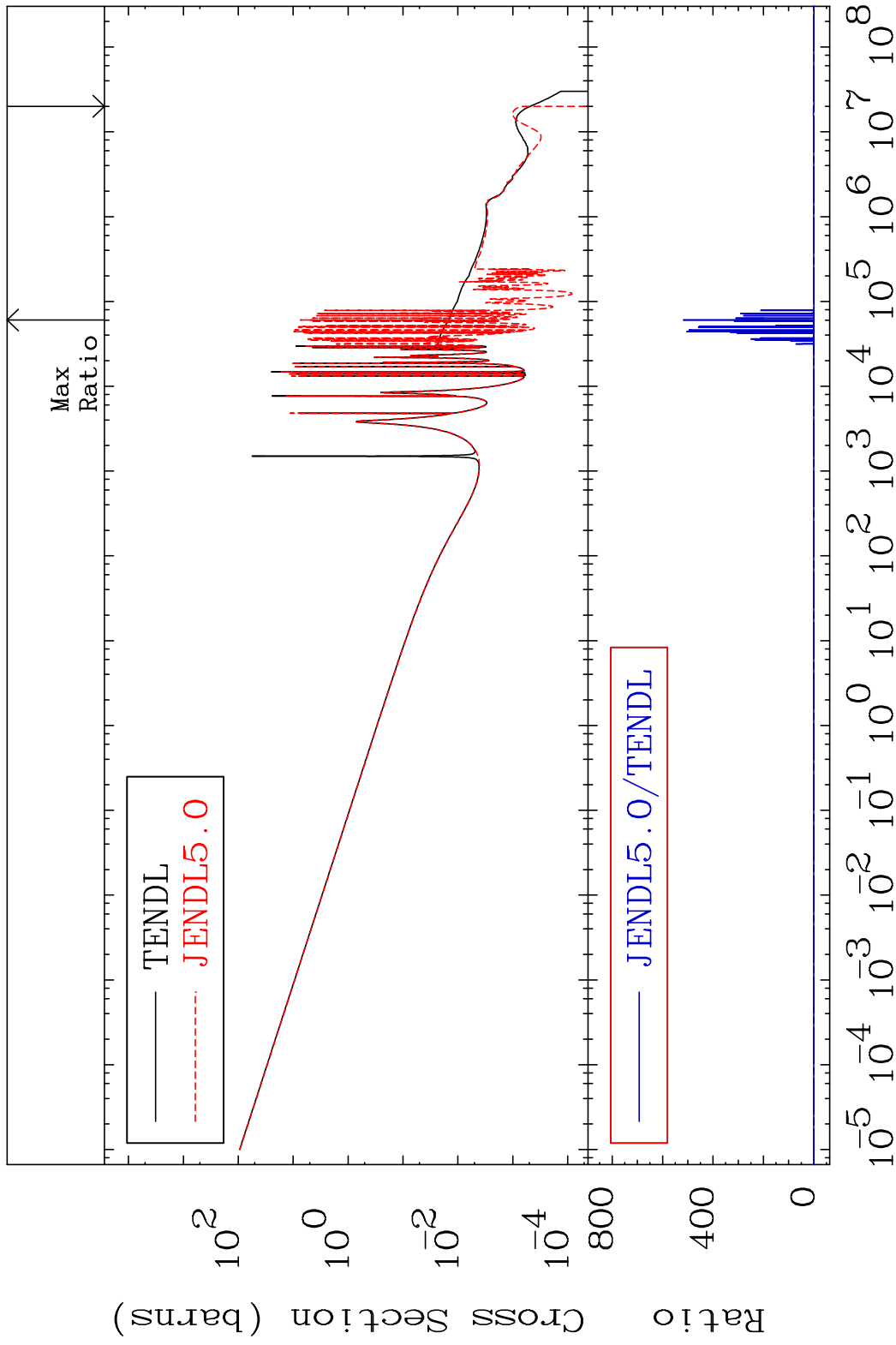
22-Ti-49

MAT 2234

(n, γ)

²²Ti-49

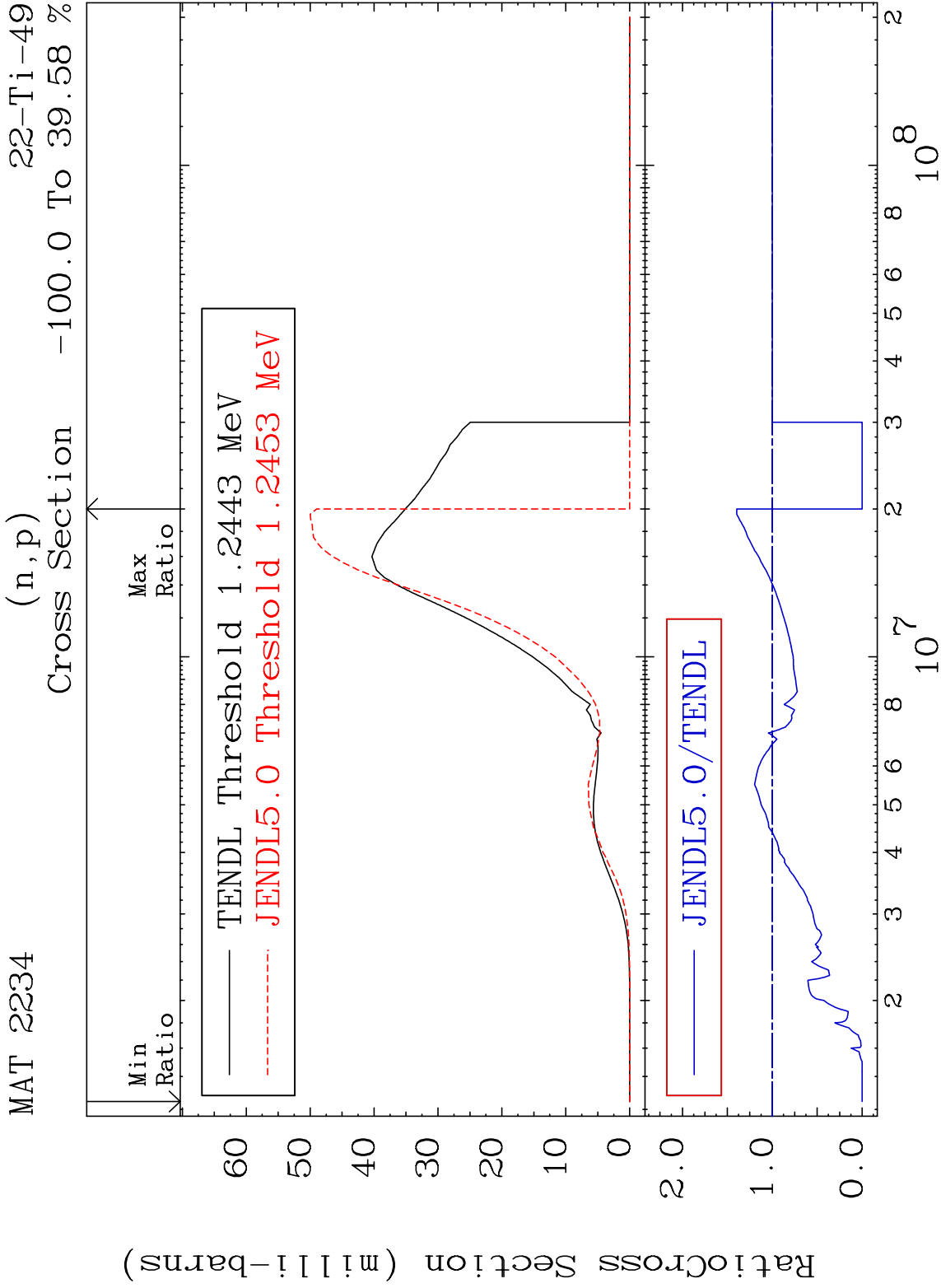
Cross Section -100.0 To 9999. %

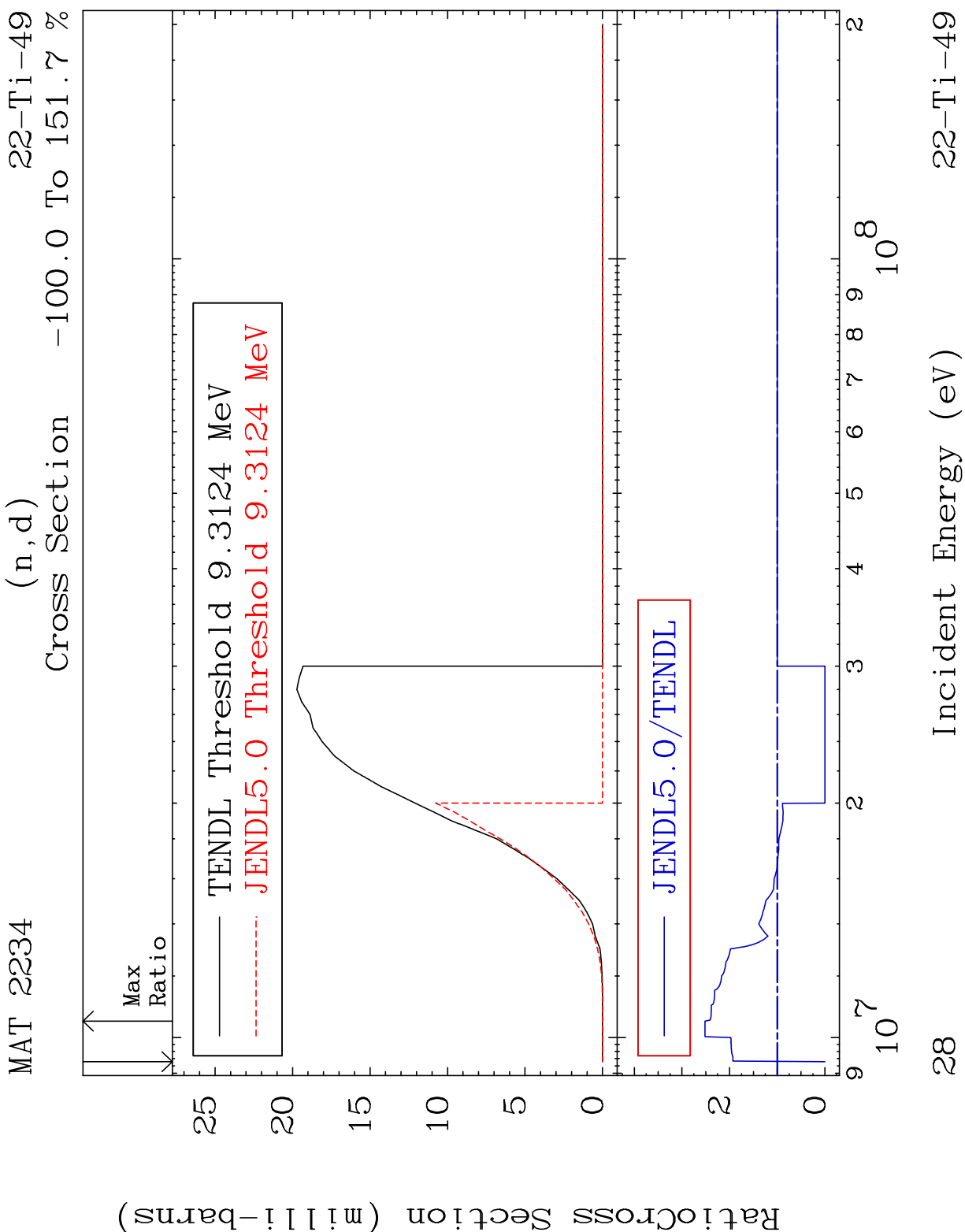


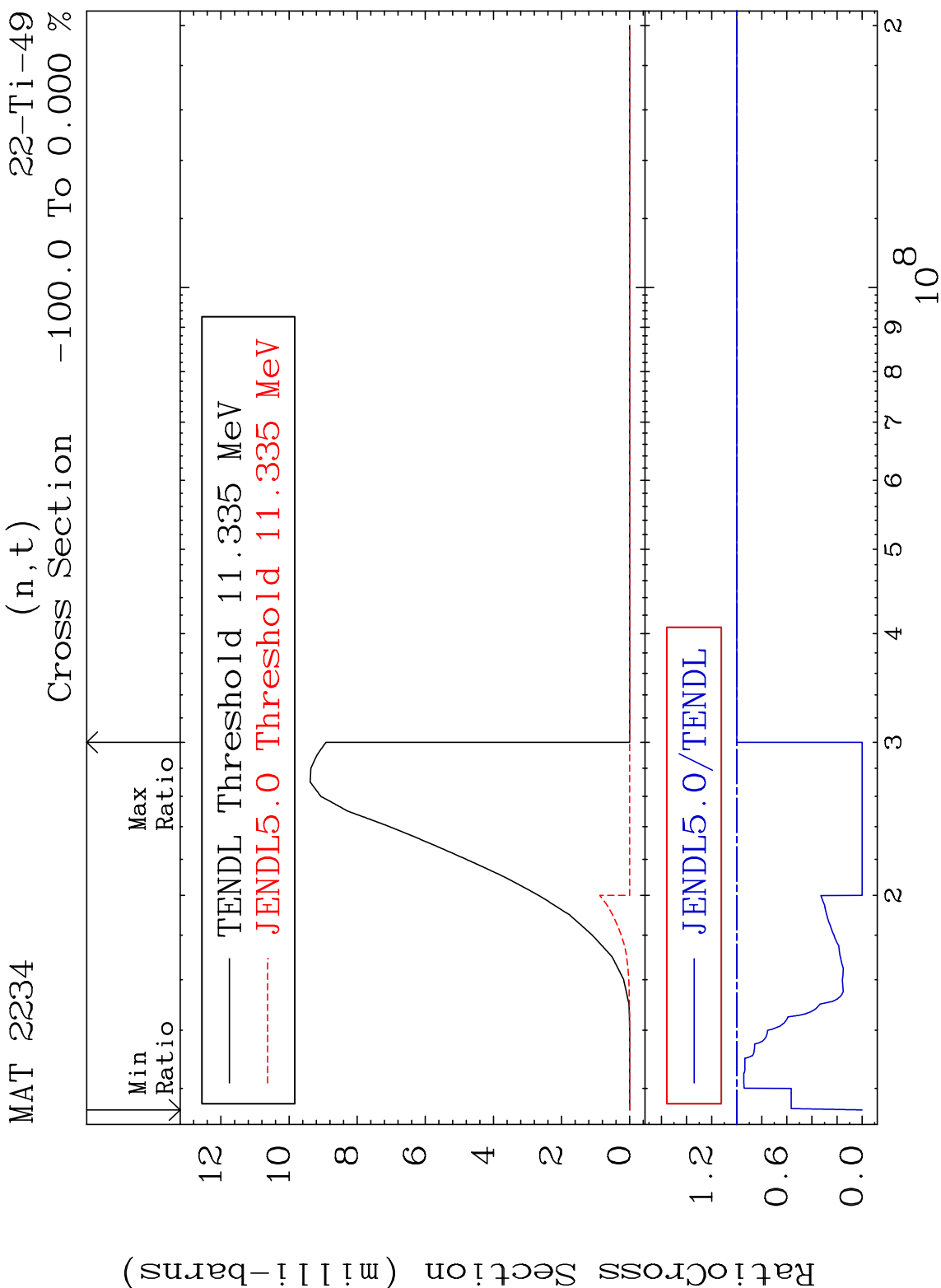
26

Incident Energy (eV)

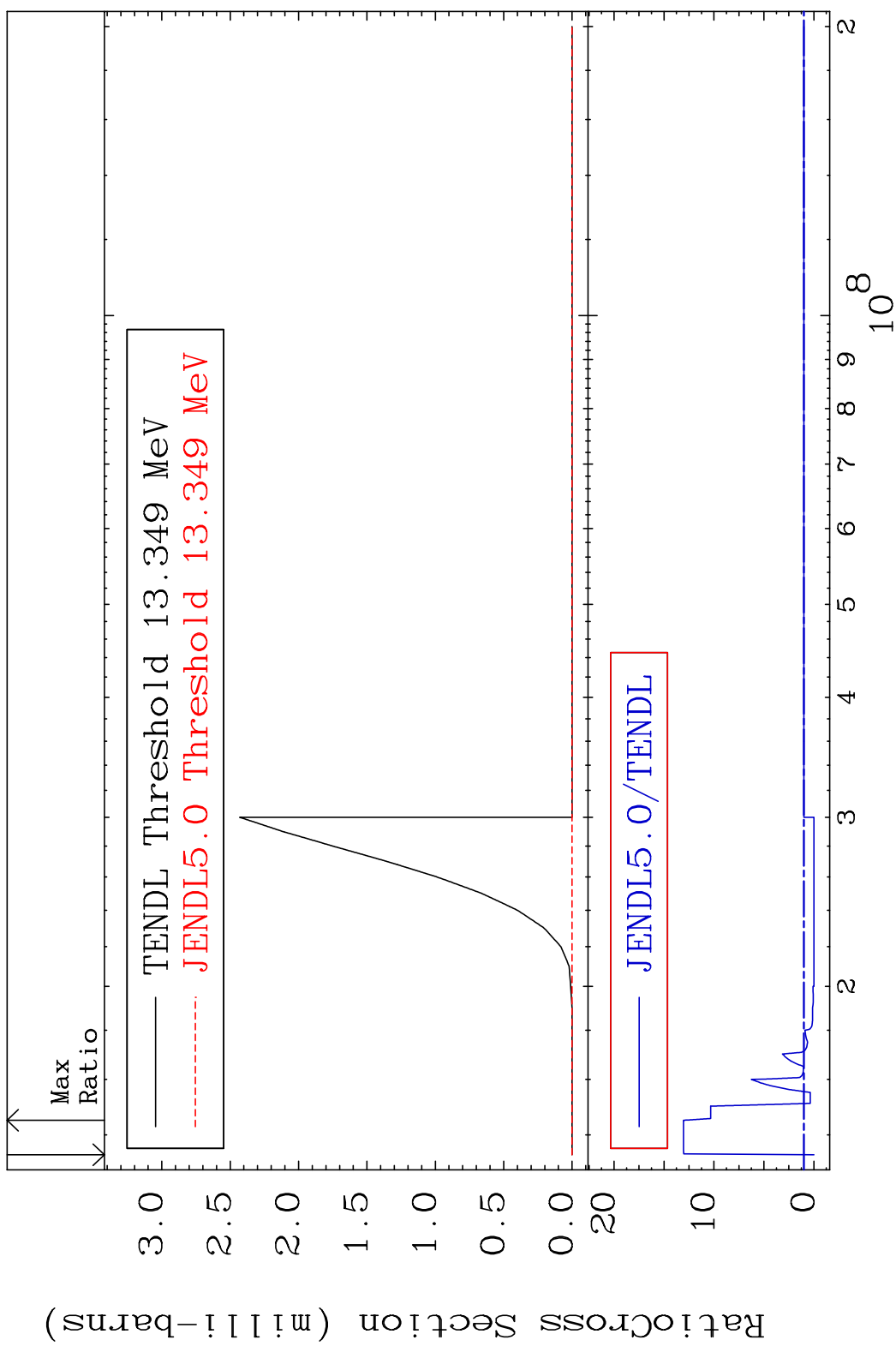
²²Ti-49





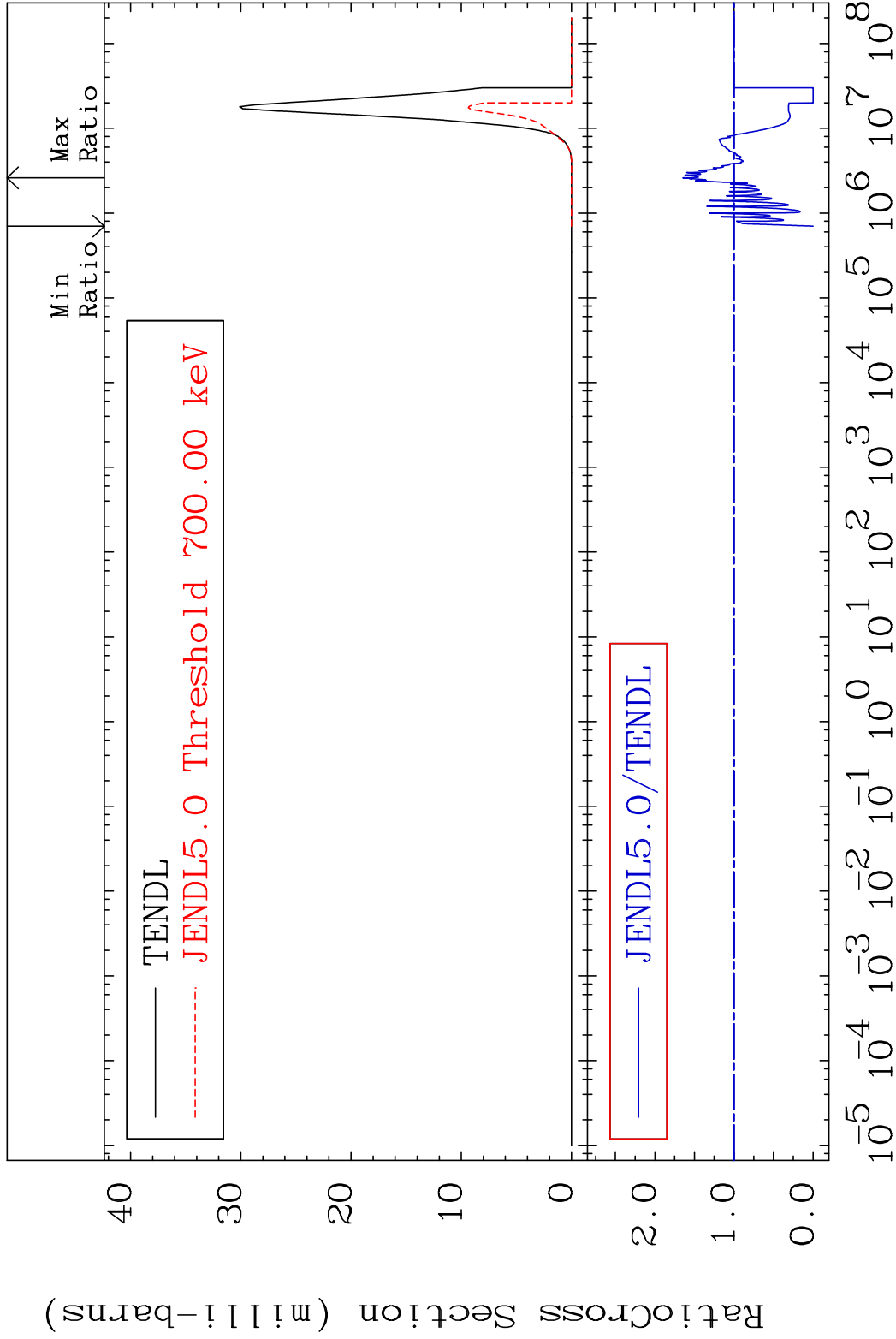


MAT 2234 (n, He-3) 22-Ti-49
 Cross Section -100.0 To 1206. %



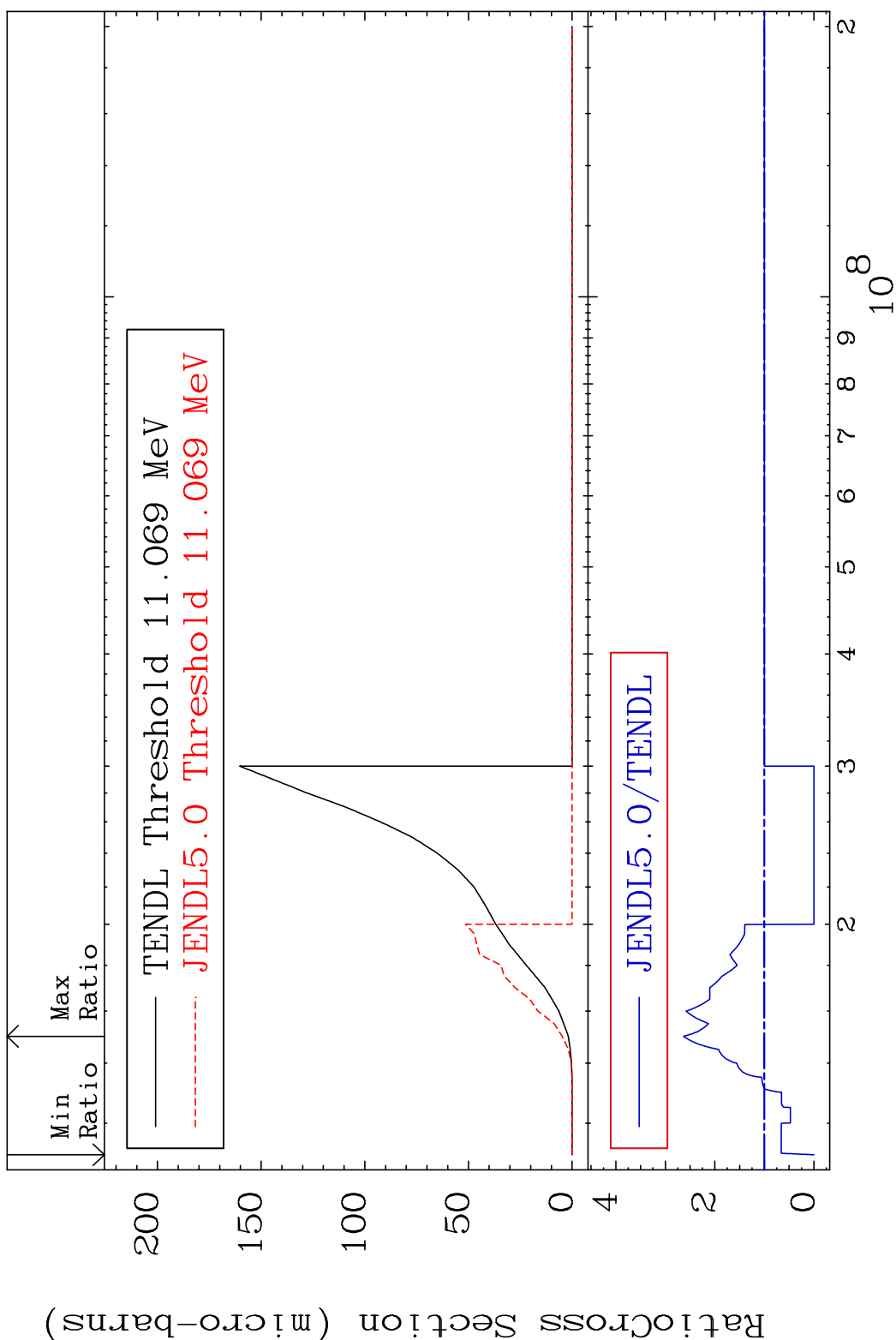
30 22-Ti-49

MAT 2234 (n, α) 22-Ti-49
 Cross Section -100.0 To 64.71 %



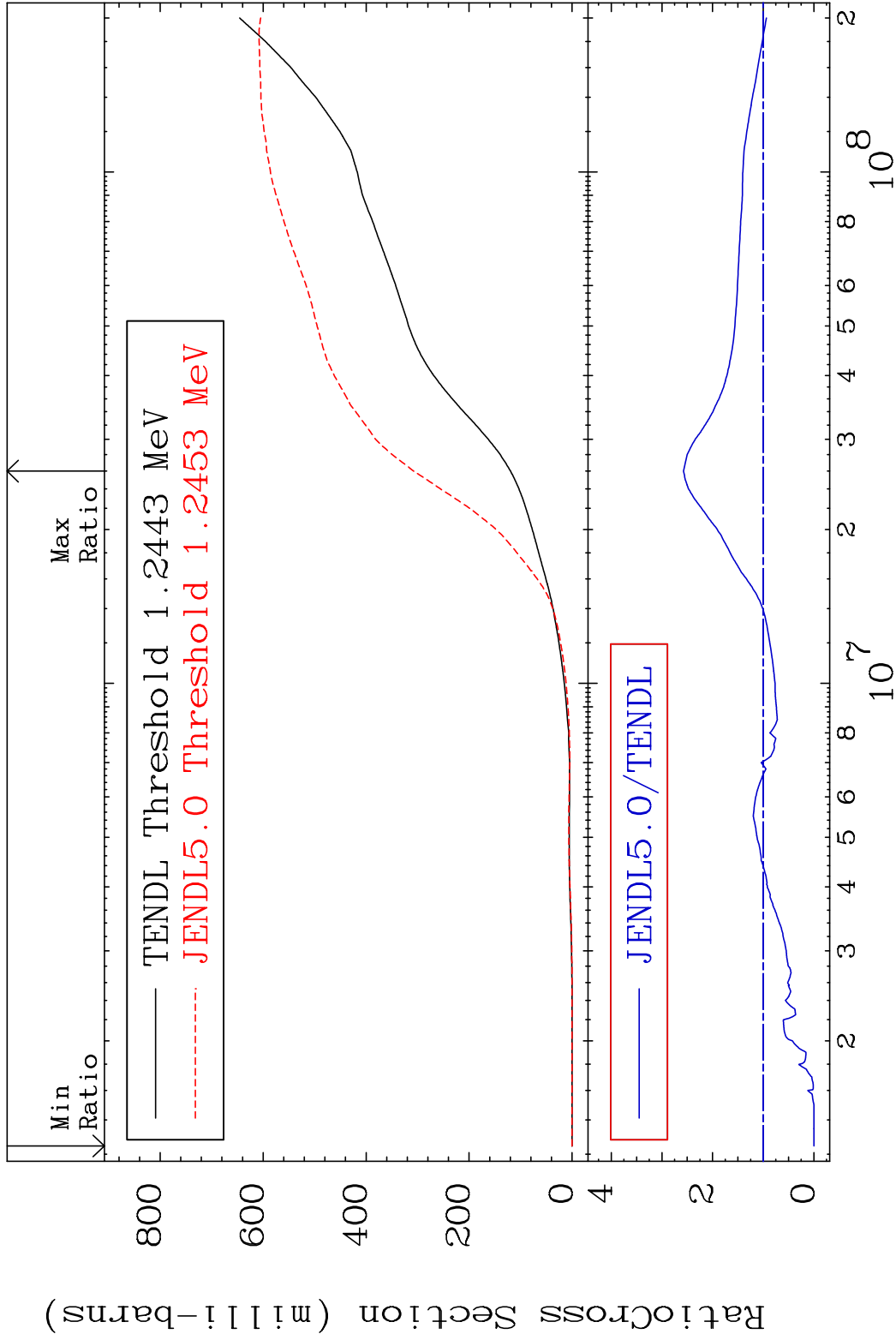
31 Incident Energy (eV) 22-Ti-49

MAT 2234 (n,2p) 22-Ti-49
 Cross Section -100.0 To 163.4 %



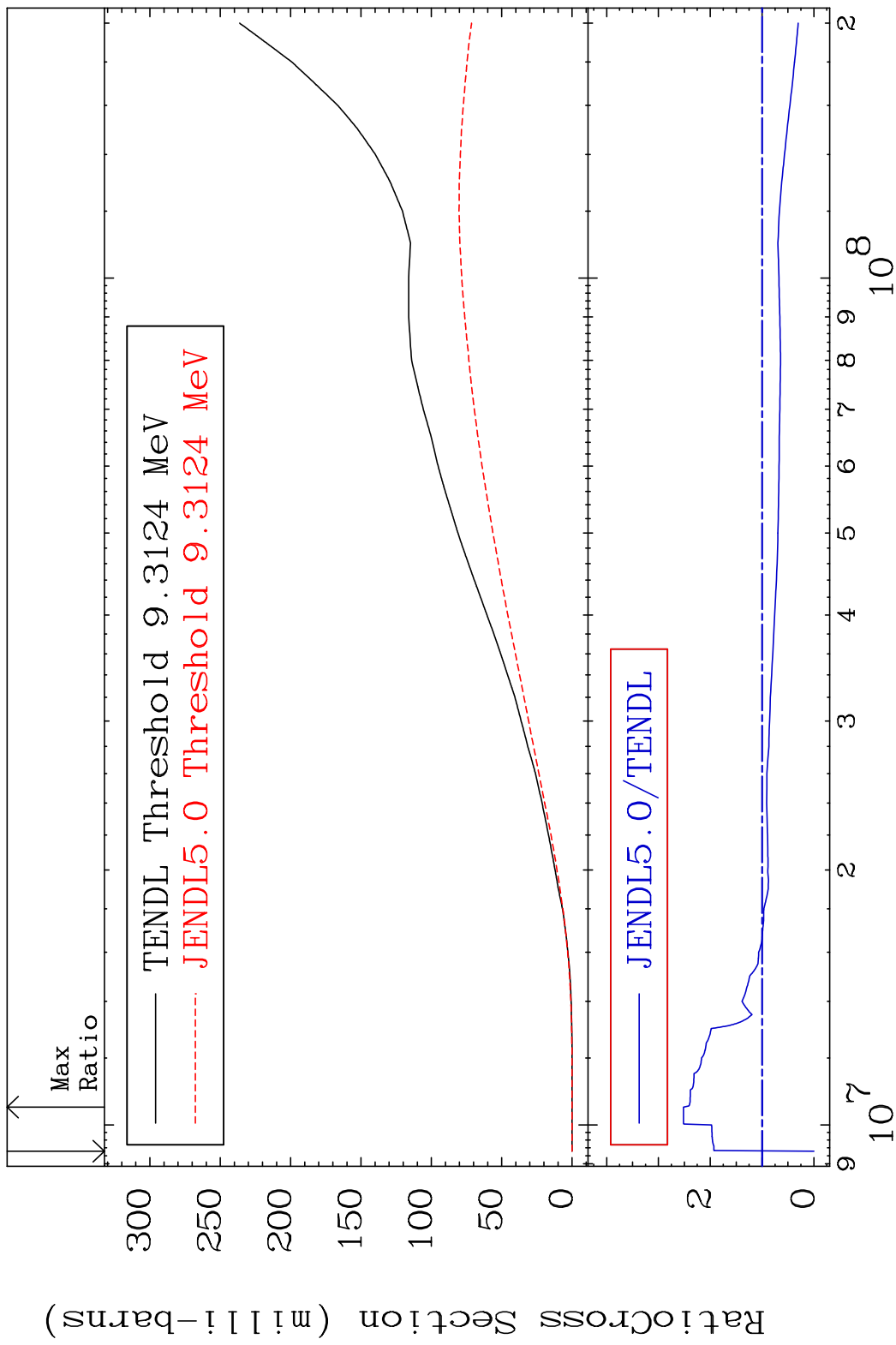
32 22-Ti-49

MAT 2234 Hydrogen Production $^{22}\text{Ti-49}$
 Cross Section -100.0 To 157.5 %



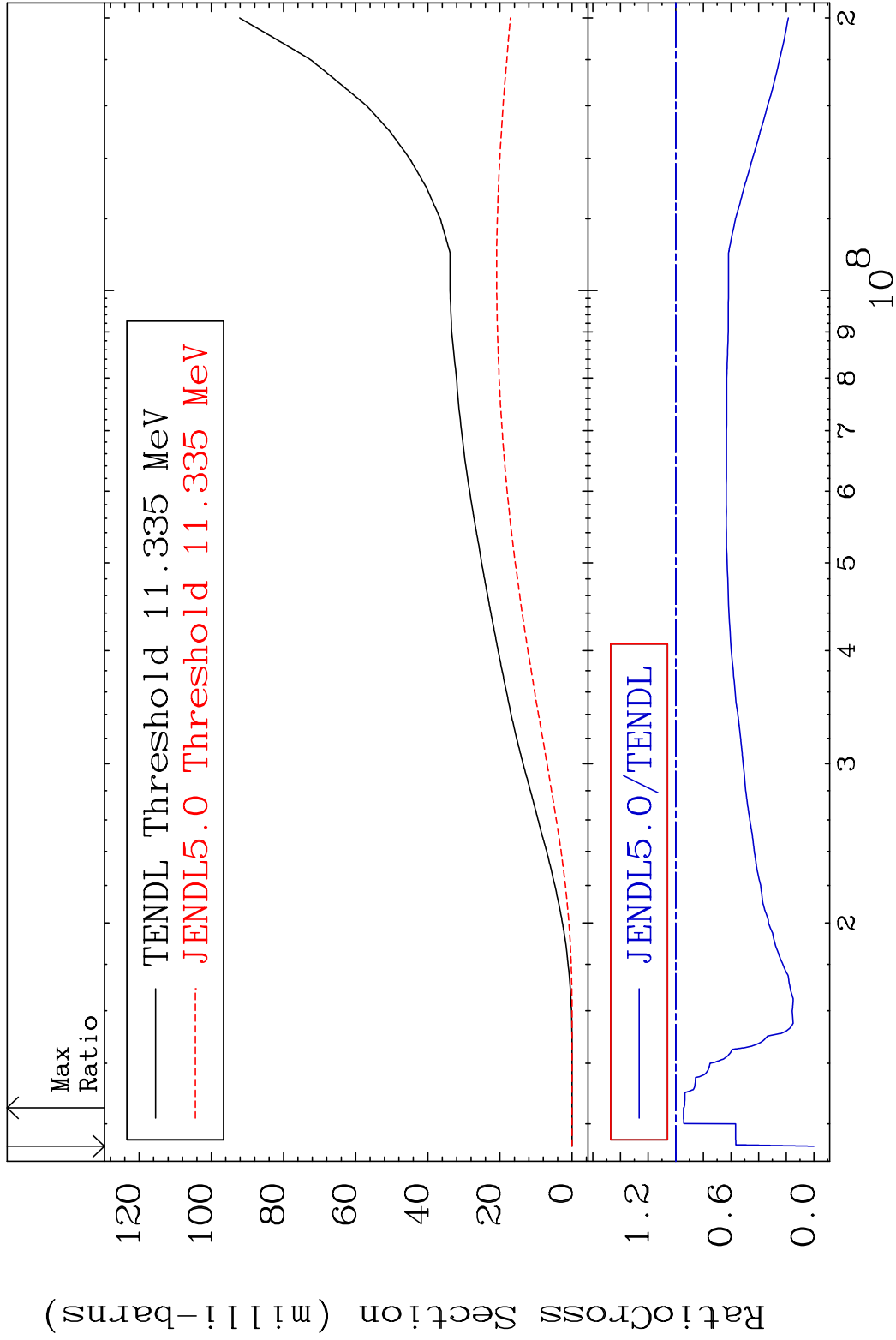
33 $^{22}\text{Ti-49}$

MAT 2234 Deuterium Production ²²Ti-49
 Cross Section -100.0 To 151.7 %



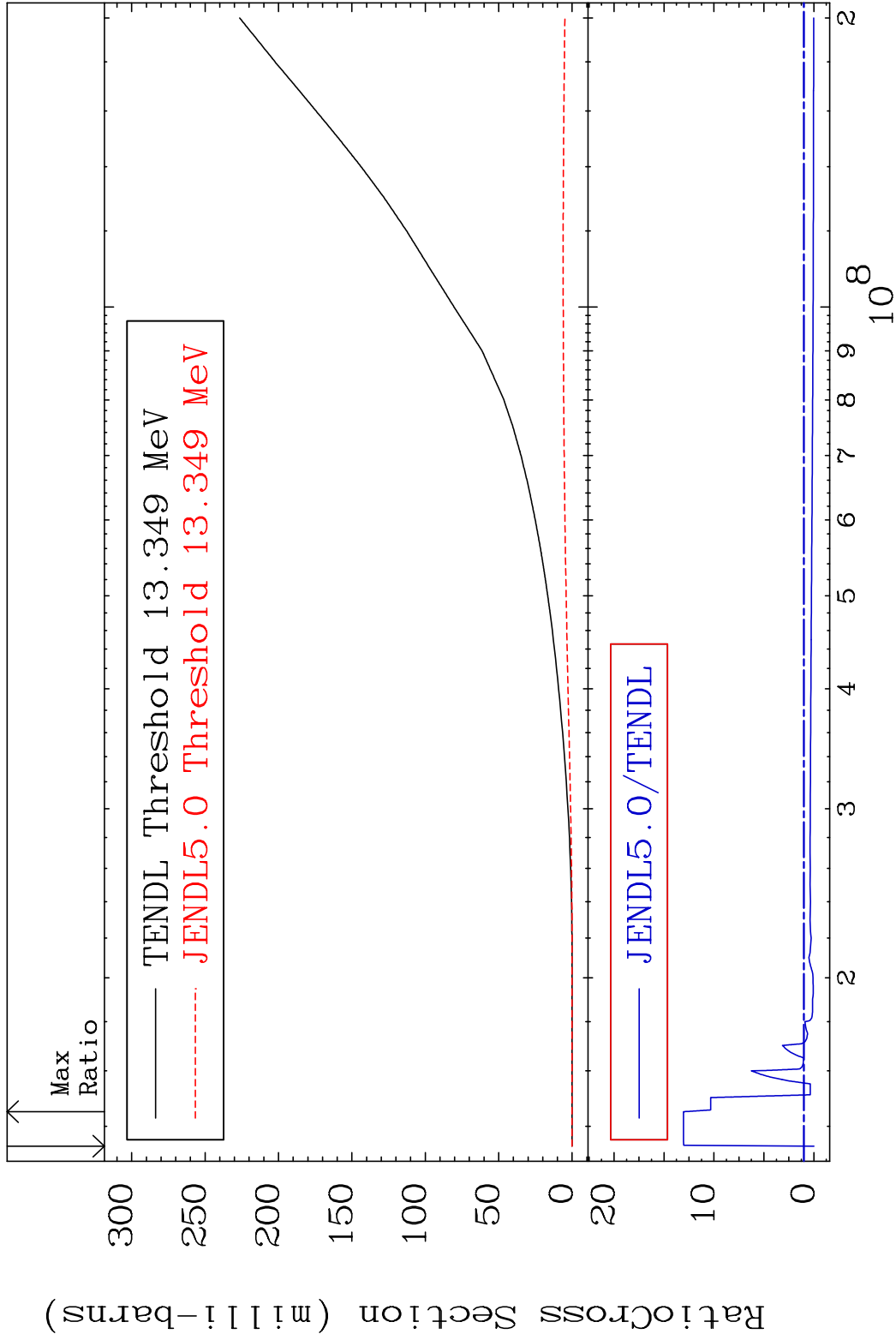
34 Incident Energy (eV) ²²Ti-49

MAT 2234 Tritium Production ²²Ti-49
 Cross Section -100.0 To -5.595%



35 ²²Ti-49

MAT 2234 He-3 Production 22-Ti-49
 Cross Section -100.0 To 1206. %



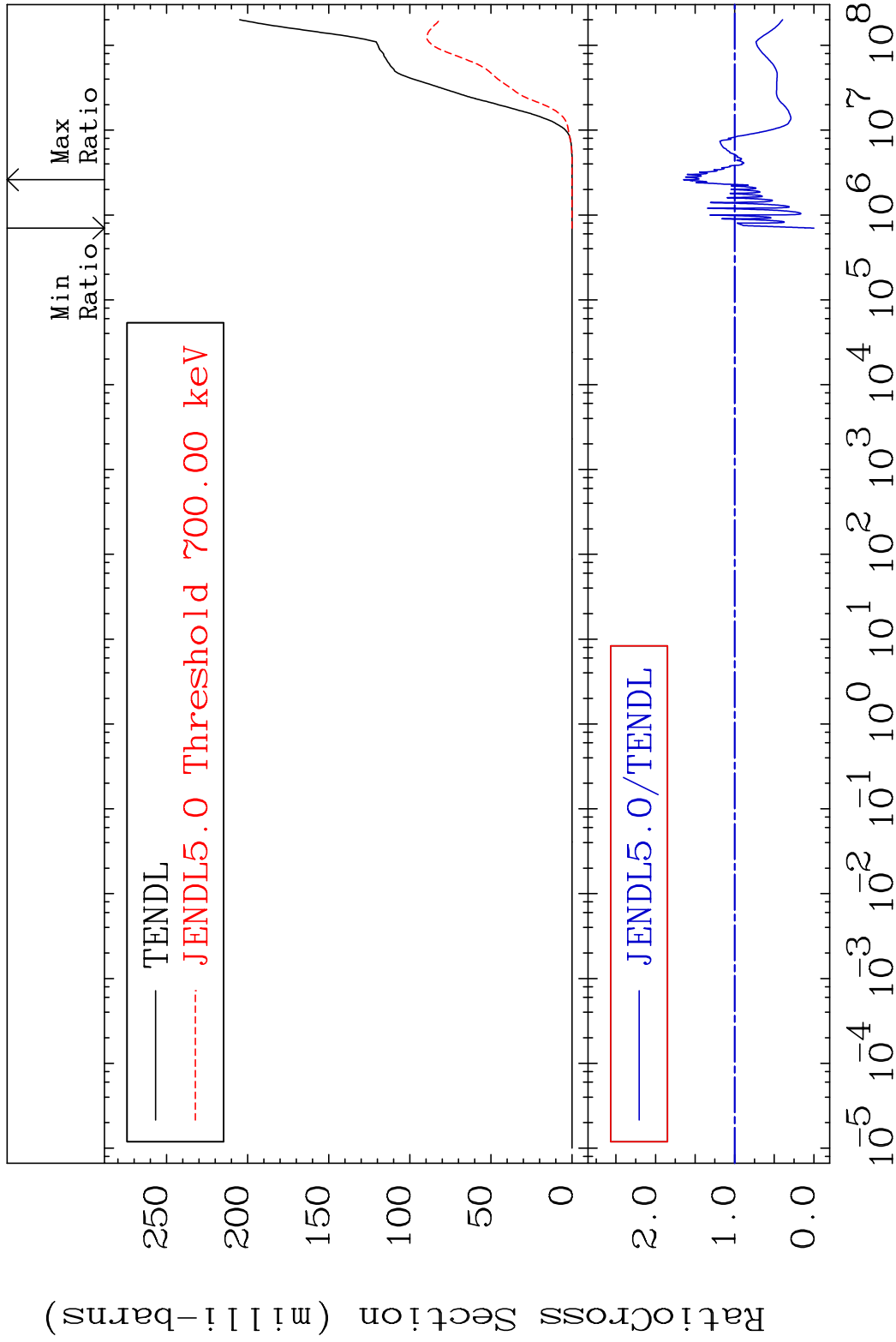
36 Incident Energy (eV) 22-Ti-49

MAT 2234

He-4 Production

²²Ti-49

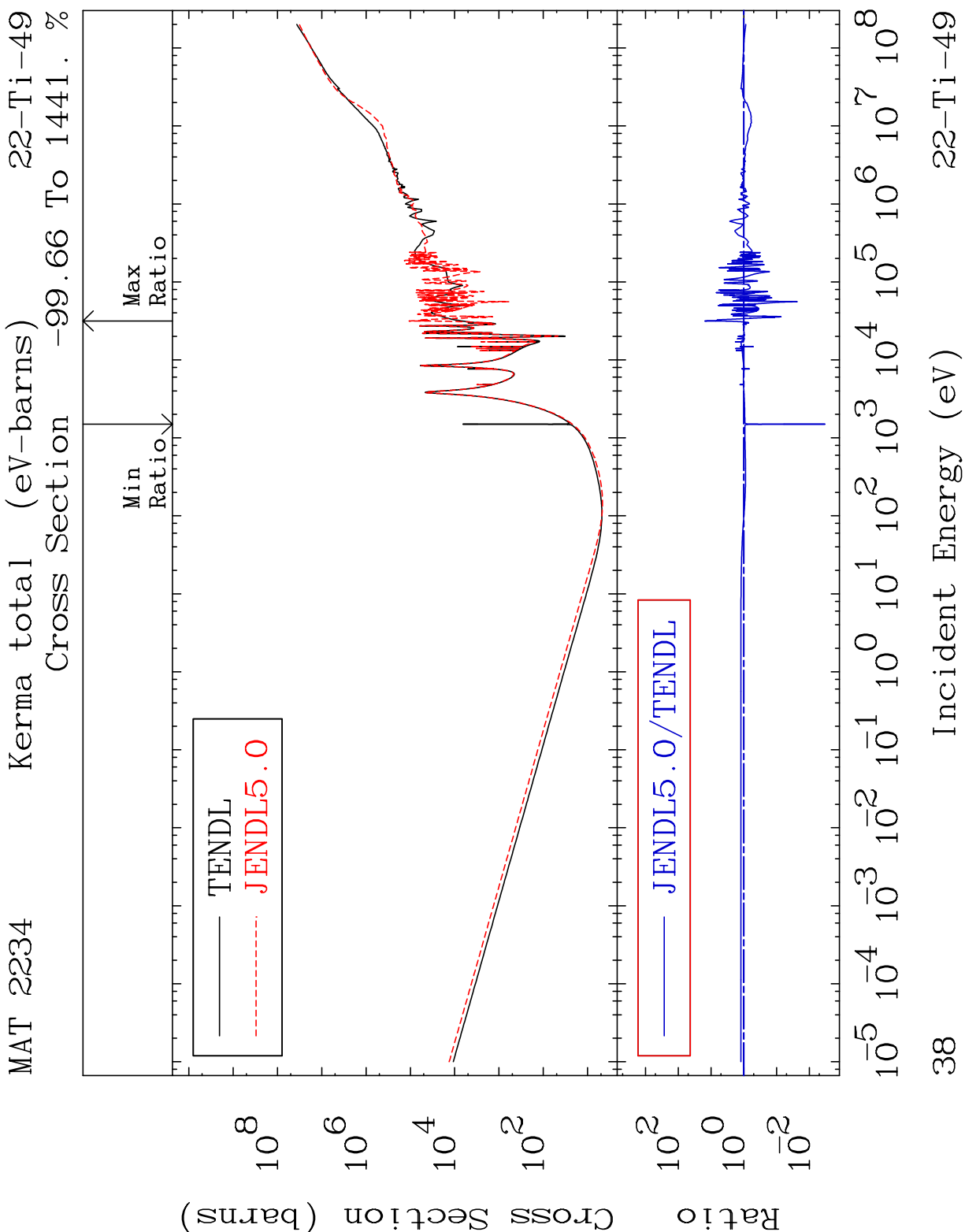
Cross Section -100.0 To 64.71 %



37

Incident Energy (eV)

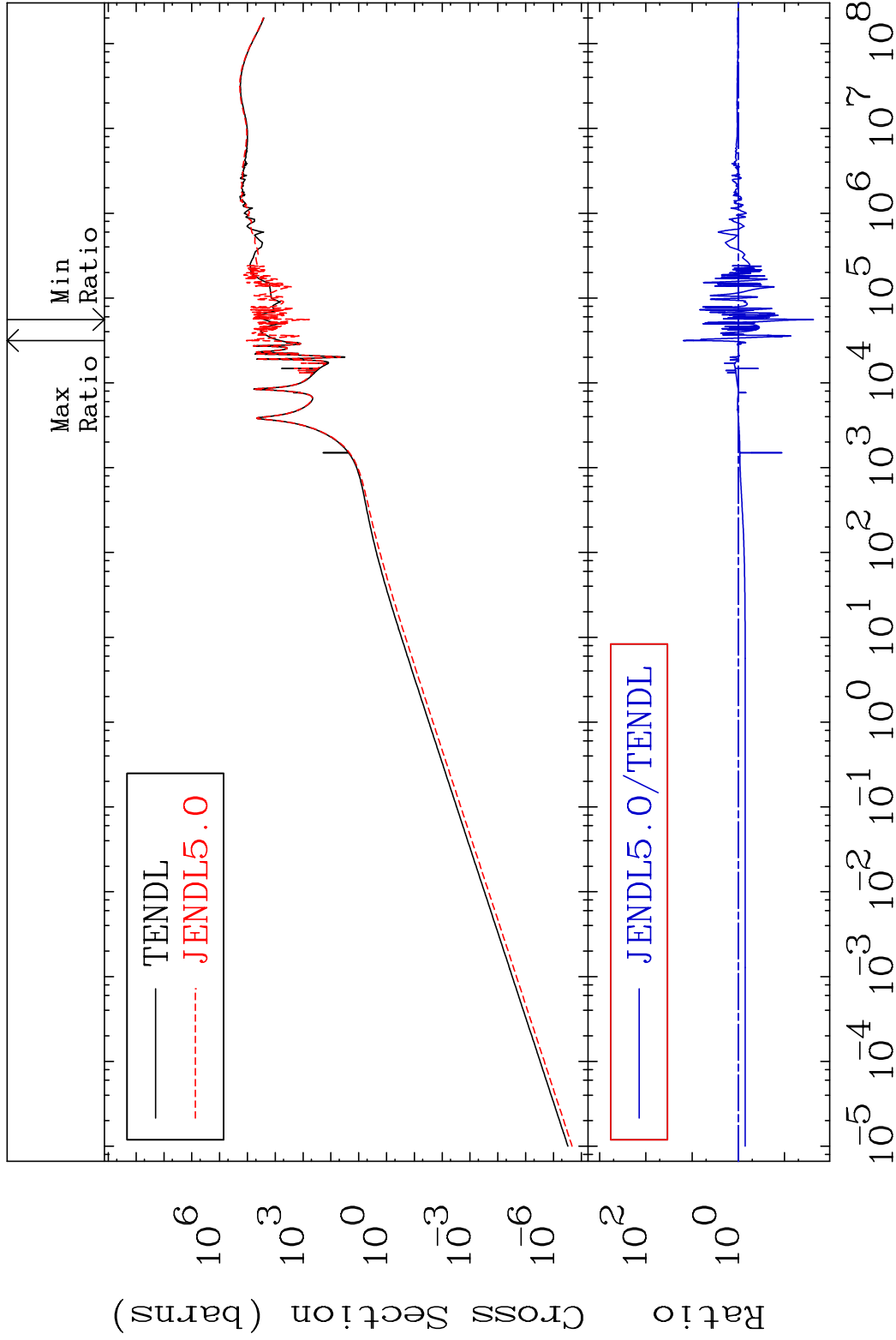
²²Ti-49



MAT 2234

Kerma elastic
Cross Section

²²Ti-49
-97.68 To 1438. %

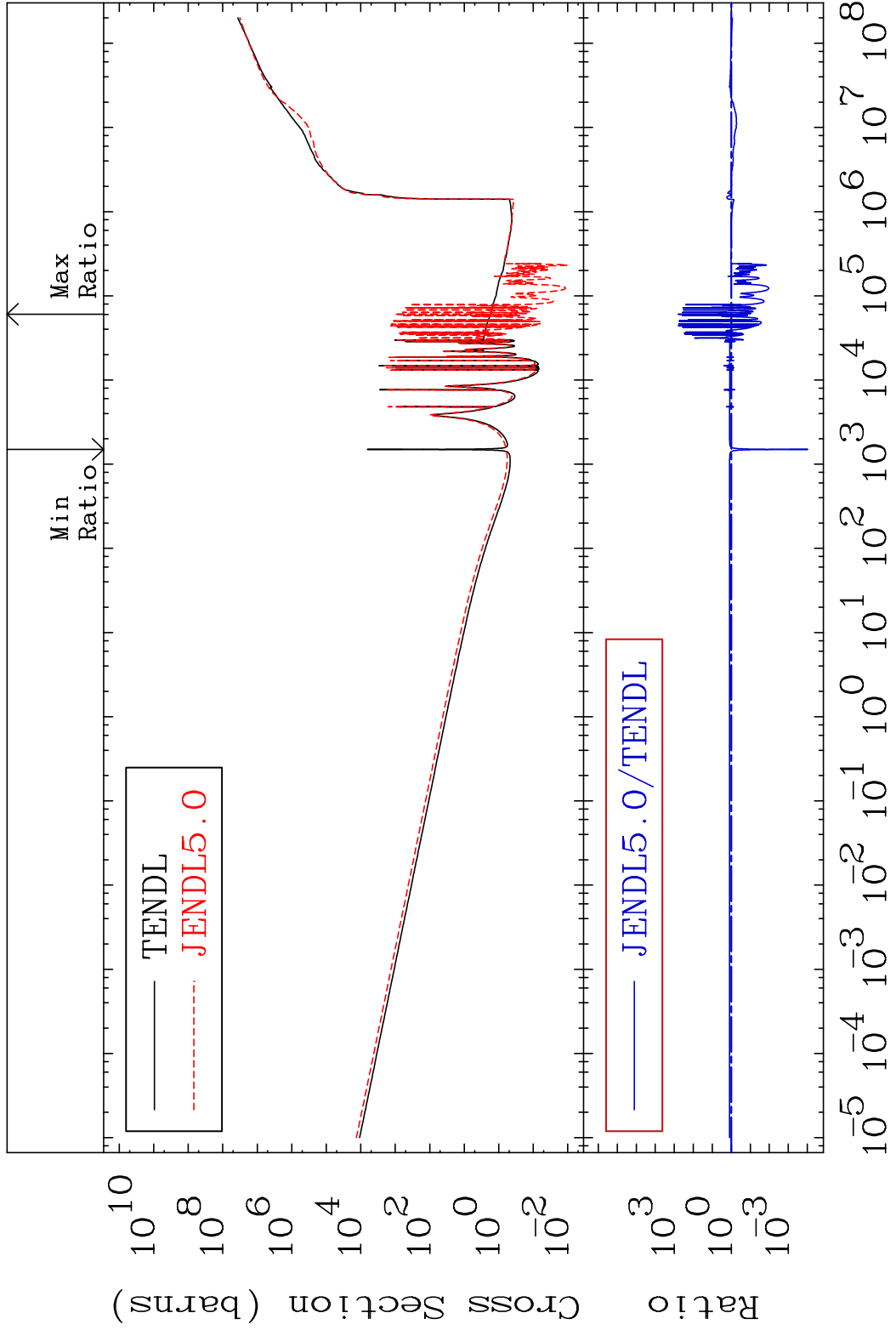


39

Incident Energy (eV)

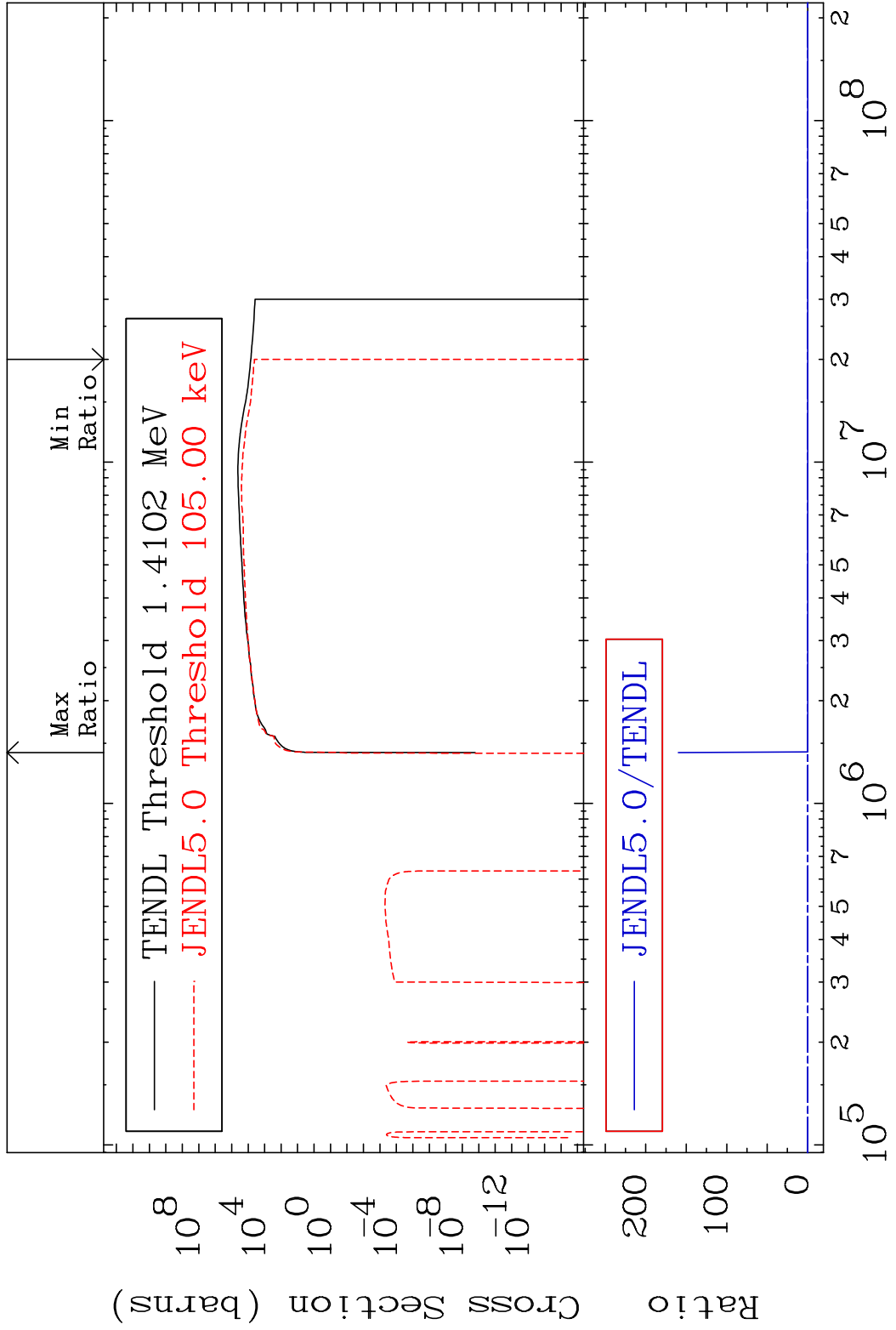
²²Ti-49

MAT 2234 Kerma non-elastic (all but mt2) 22-Ti-49
 Cross Section -99.99 To 9999. %



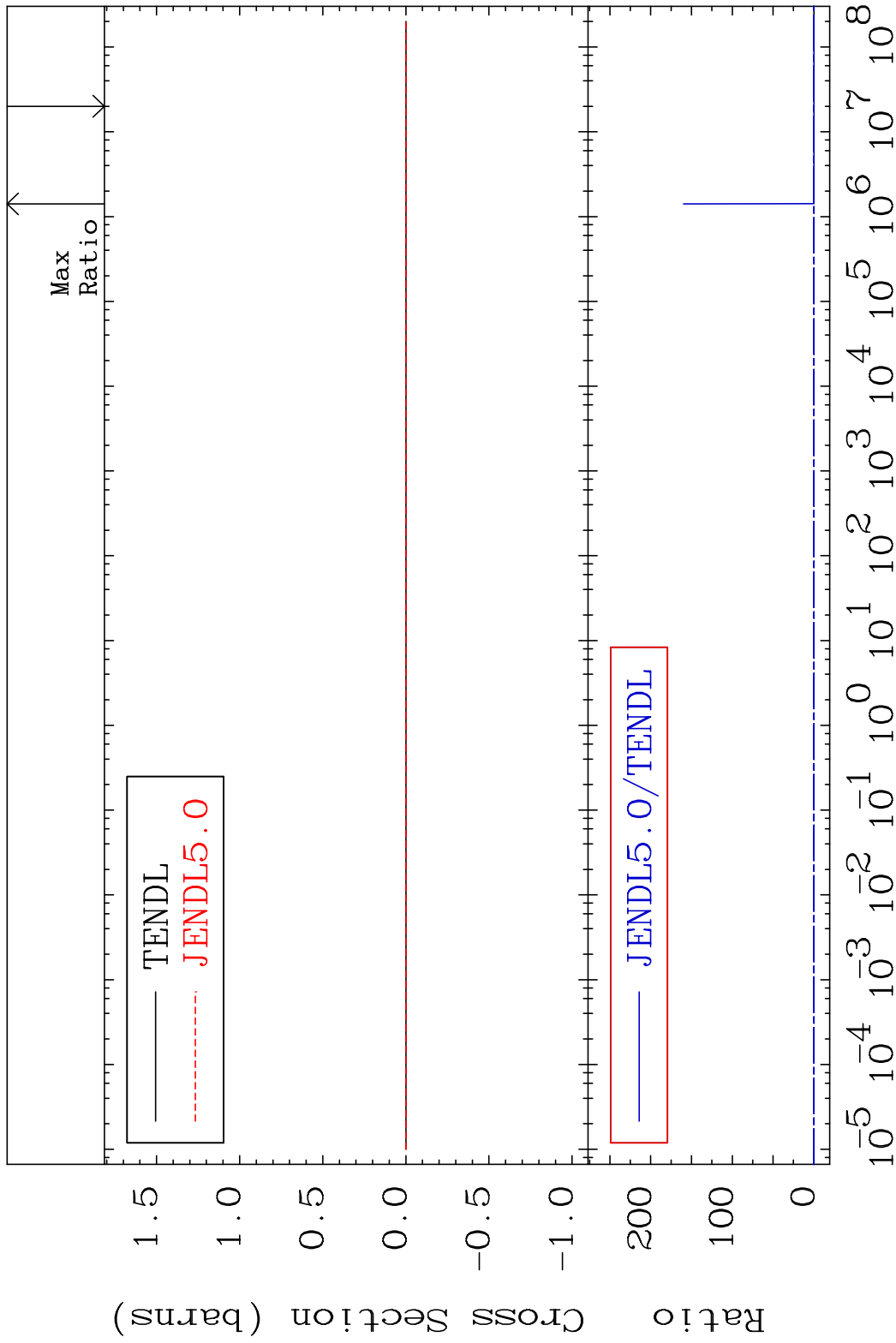
40 Incident Energy (eV) 22-Ti-49

MAT 2234 Kerma inelastic (mt51-91) 22-Ti-49
 Cross Section -100.0 To 9999. %



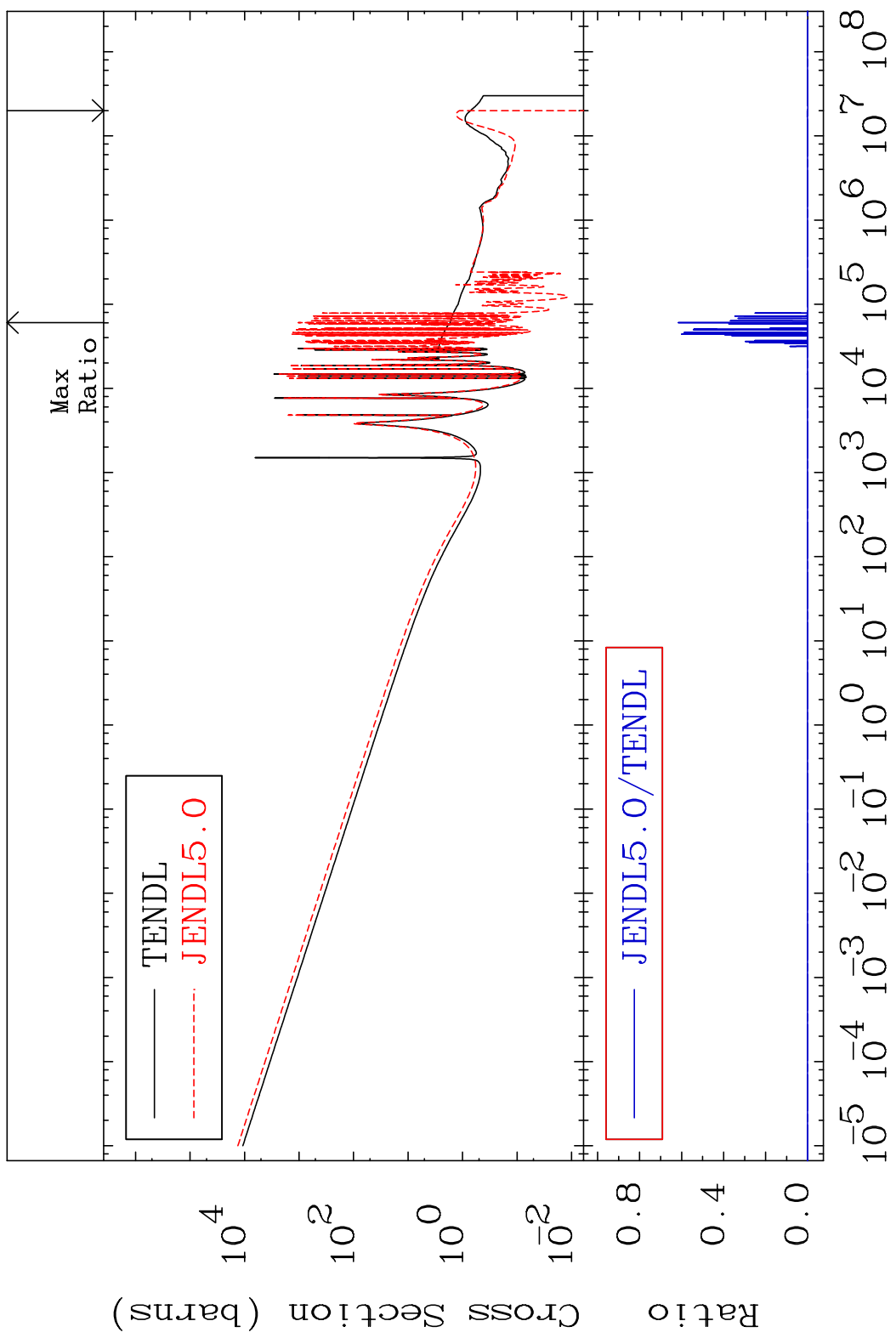
41 Incident Energy (eV) 22-Ti-49

MAT 2234 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-49
 Cross Section -100.0 To 9999. %



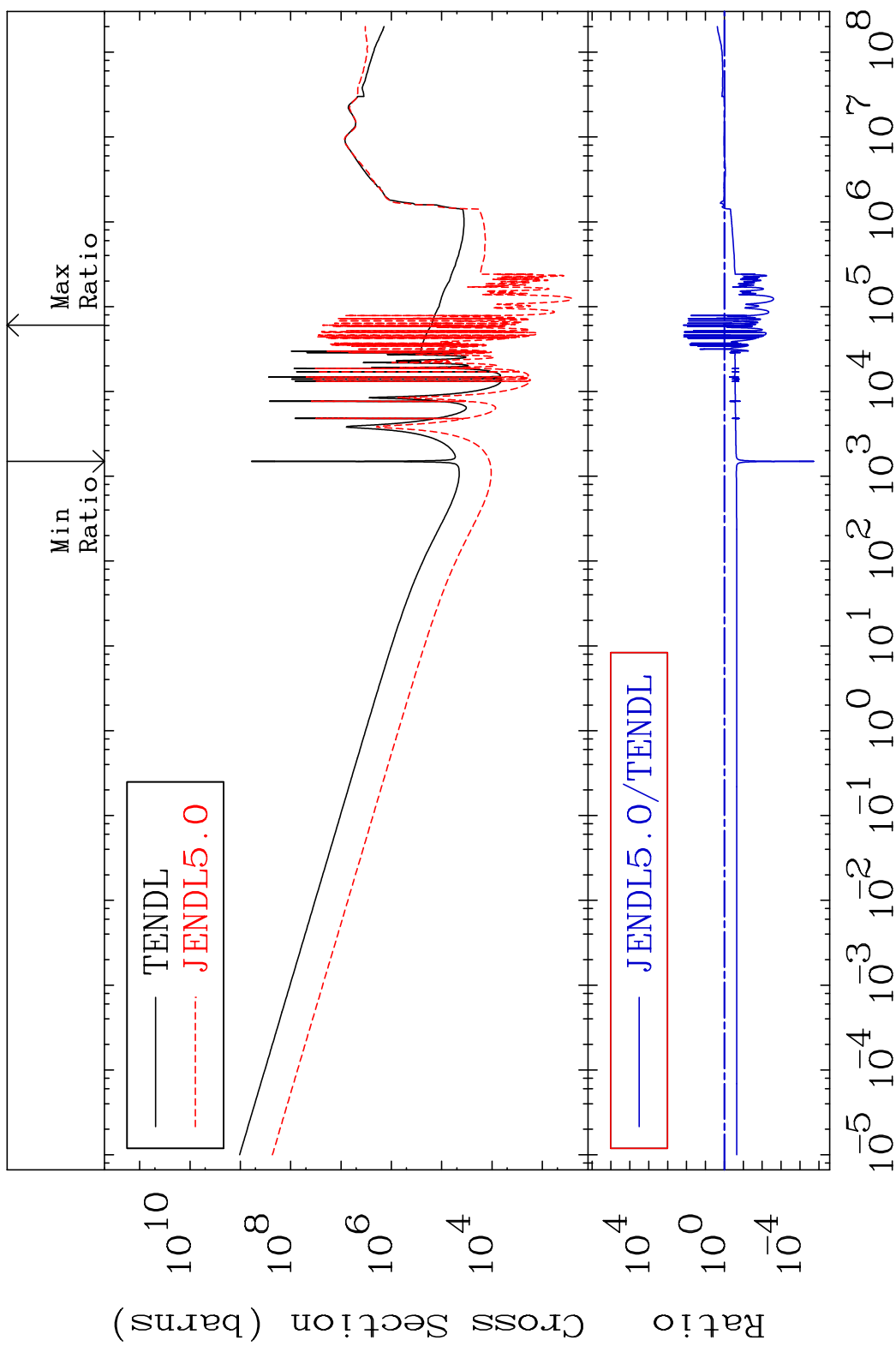
42 Incident Energy (eV) 22-Ti-49

MAT 2234 Kerma capture (mt102) 22-Ti-49
 Cross Section -100.0 To 9999. %



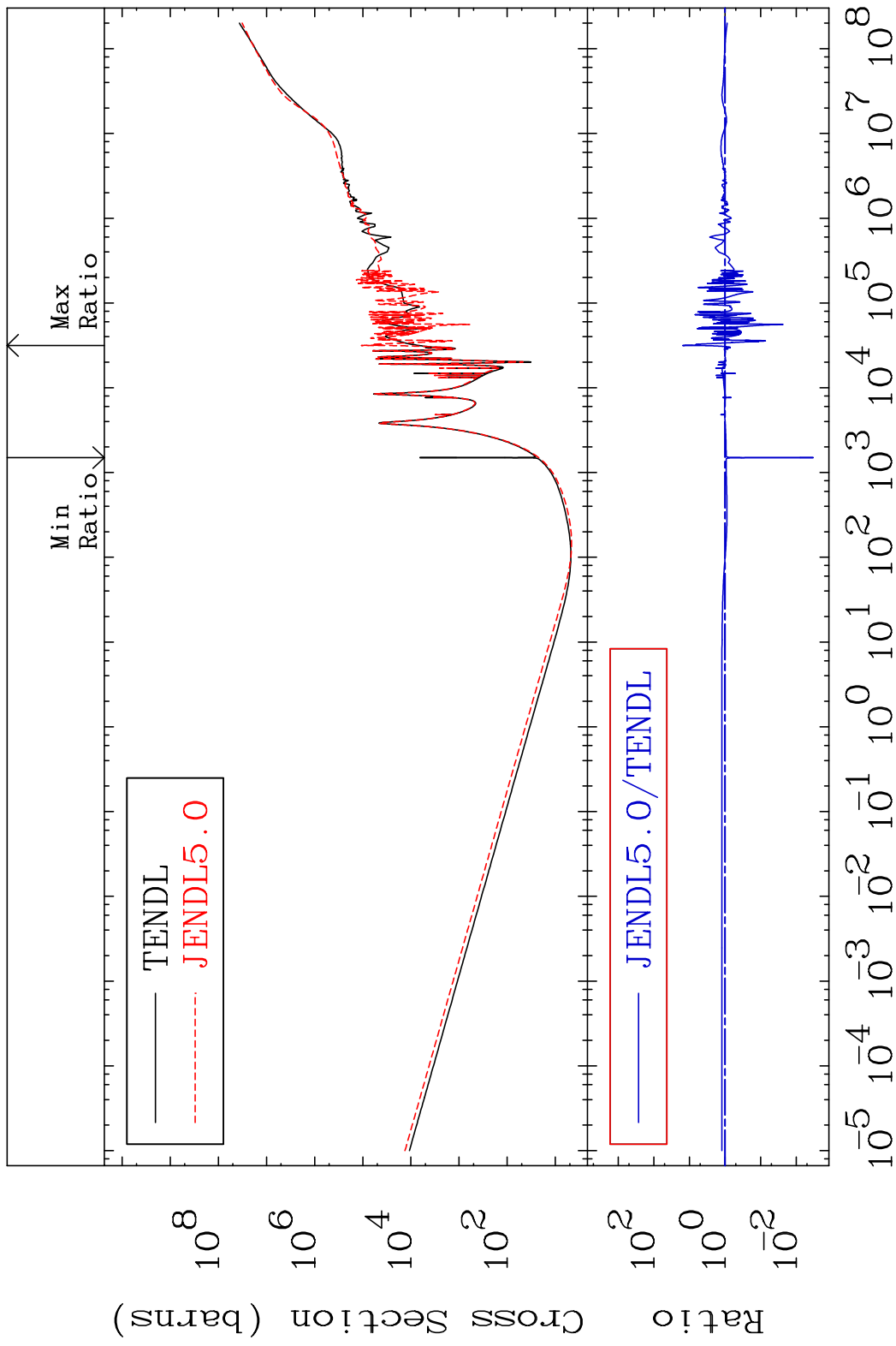
43 Incident Energy (eV) 22-Ti-49

MAT 2234 Total photon (eV-barns) 22-Ti-49
 Cross Section -100.0 To 9999. %



44 Incident Energy (eV) 22-Ti-49

MAT 2234 Total kinematic kerma (high limit) 22-Ti-49
Cross Section -99.66 To 1441. %

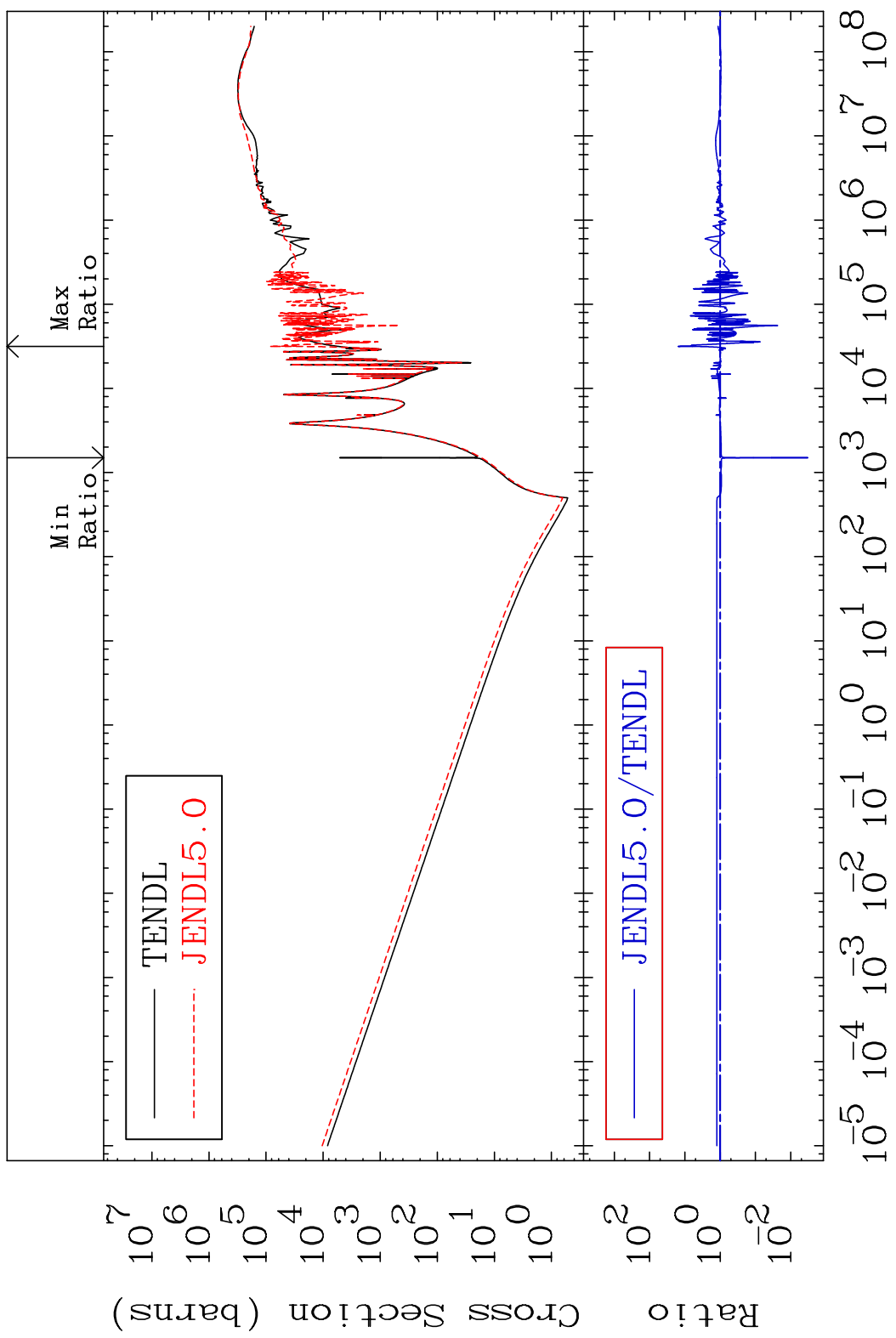


45

Incident Energy (eV)

22-Ti-49

MAT 2234 Dpa total (eV-barns) 22-Ti-49
 Cross Section -99.67 To 1441. %



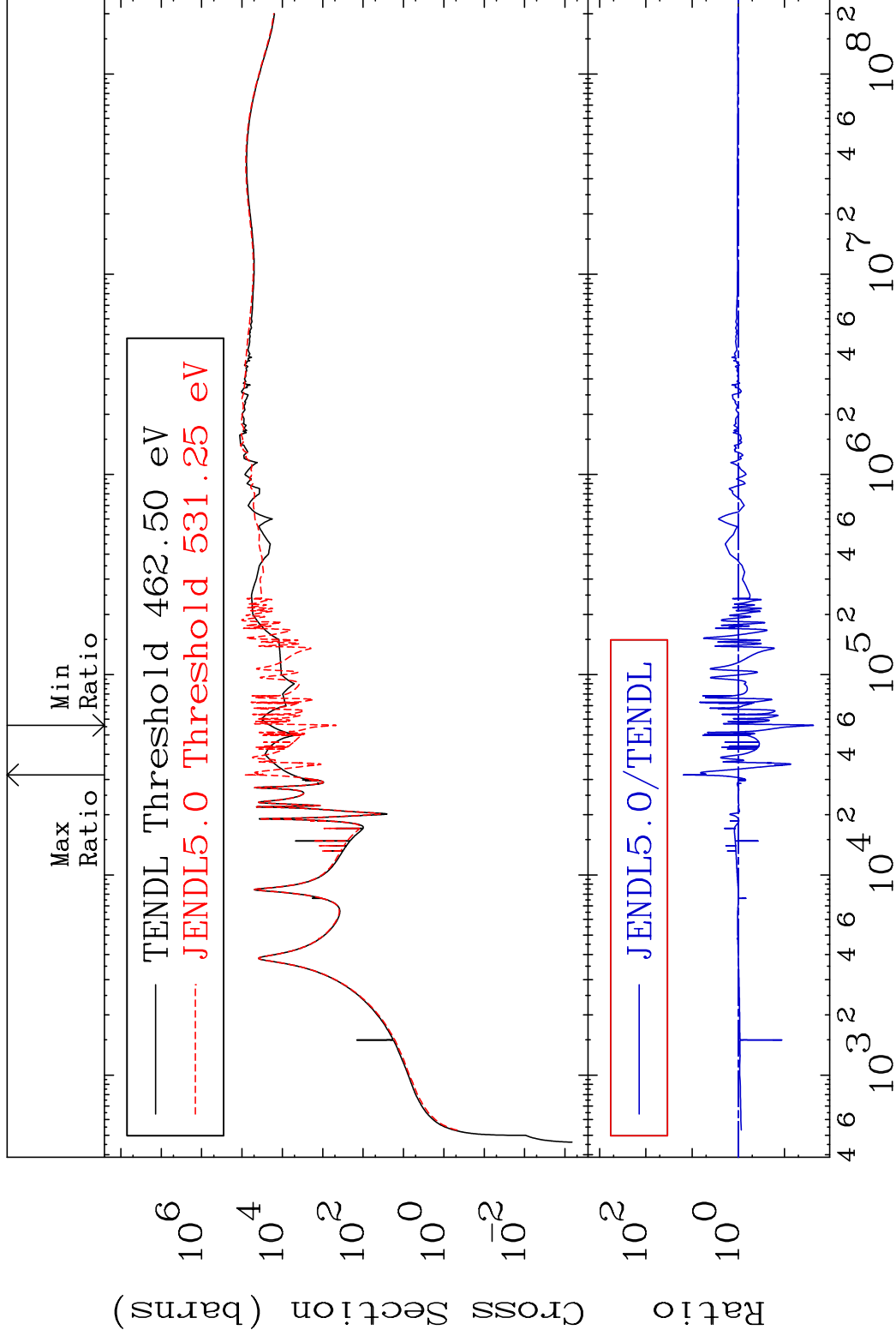
46 Incident Energy (eV) 22-Ti-49

MAT 2234

Dpa elastic (mt2)

22-Ti-49

Cross Section -97.68 To 1439. %

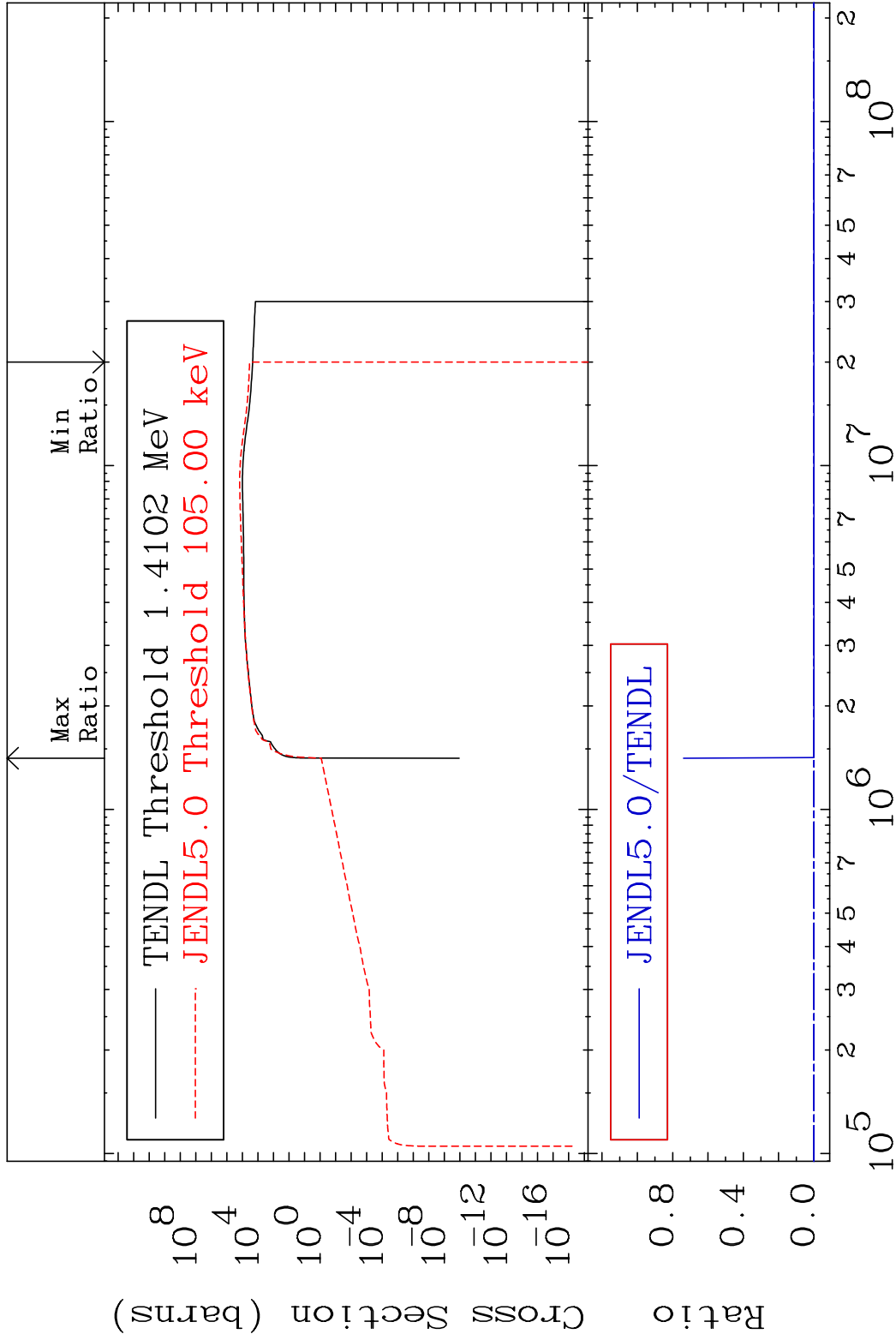


47

Incident Energy (eV)

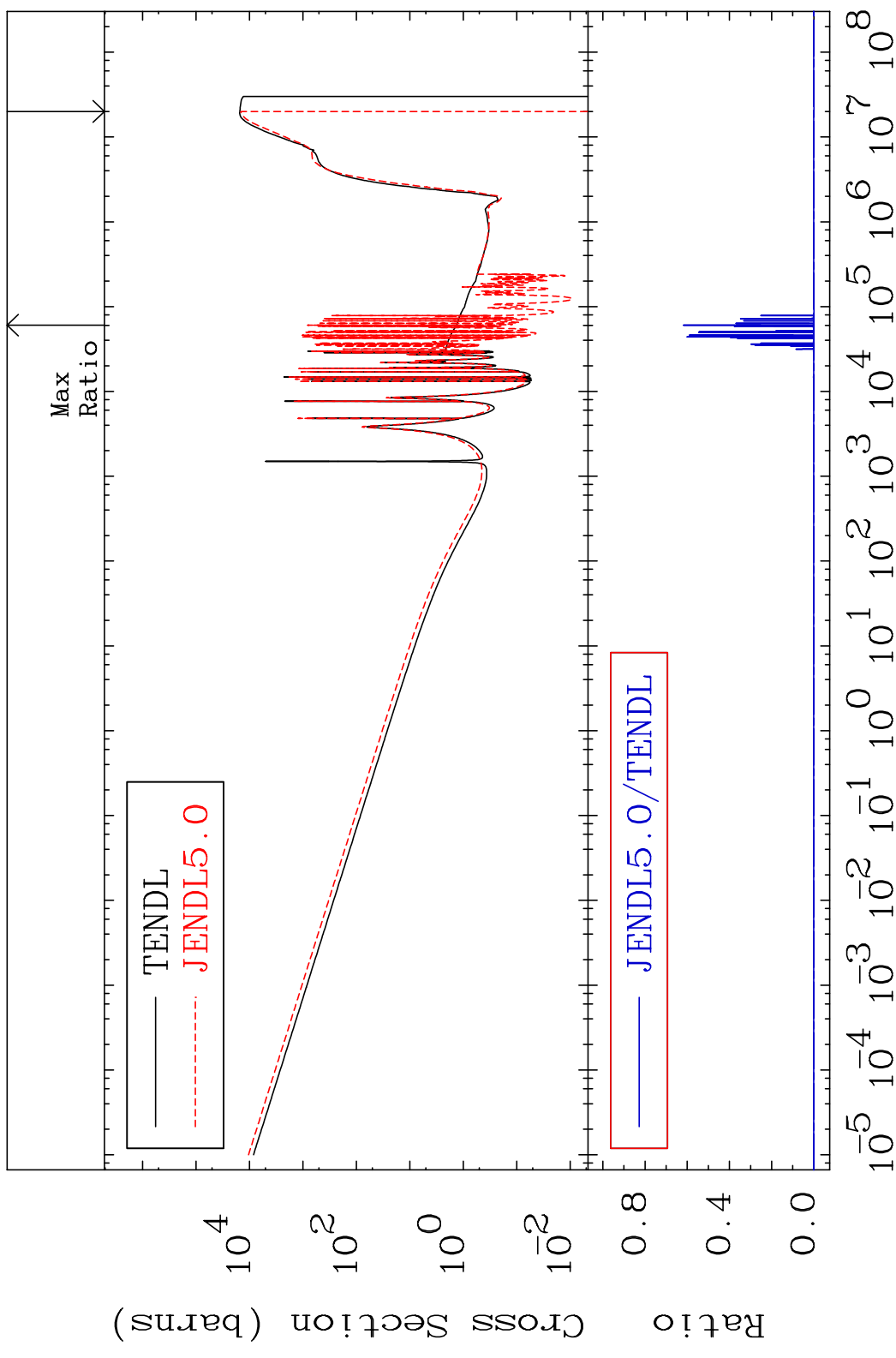
22-Ti-49

MAT 2234 Dpa inelastic (mt51-91) 22-Ti-49
 Cross Section -100.0 To 9999. %



48 Incident Energy (eV) 22-Ti-49

MAT 2234 Dpa disappearance (mt102 -120) 22-Ti-49
 Cross Section -100.0 To 9999. %

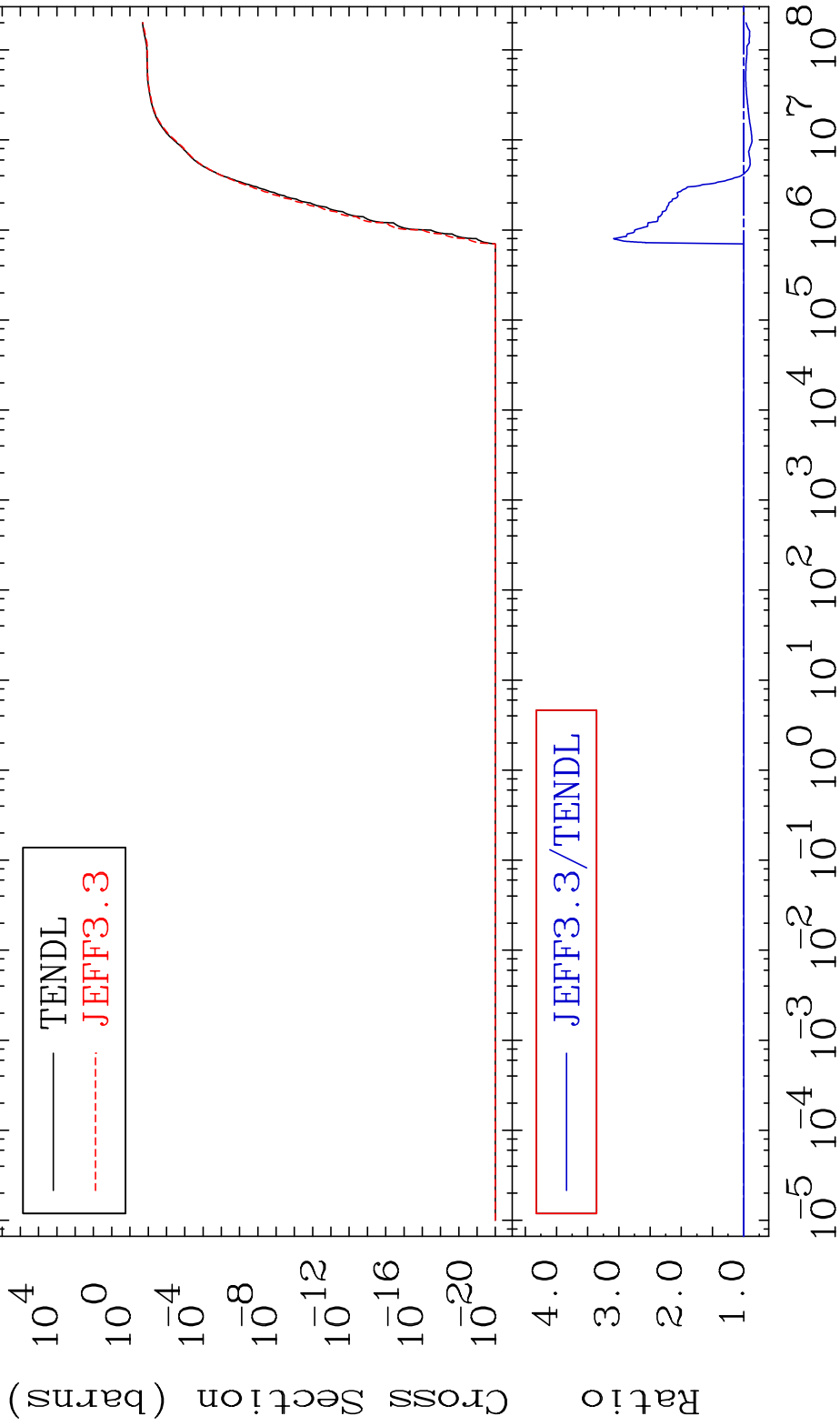


49 Incident Energy (eV) 22-Ti-49

MAT 2234

He-4 Production
Cross Section -13.32 To 208.6 %

22-Ti-49

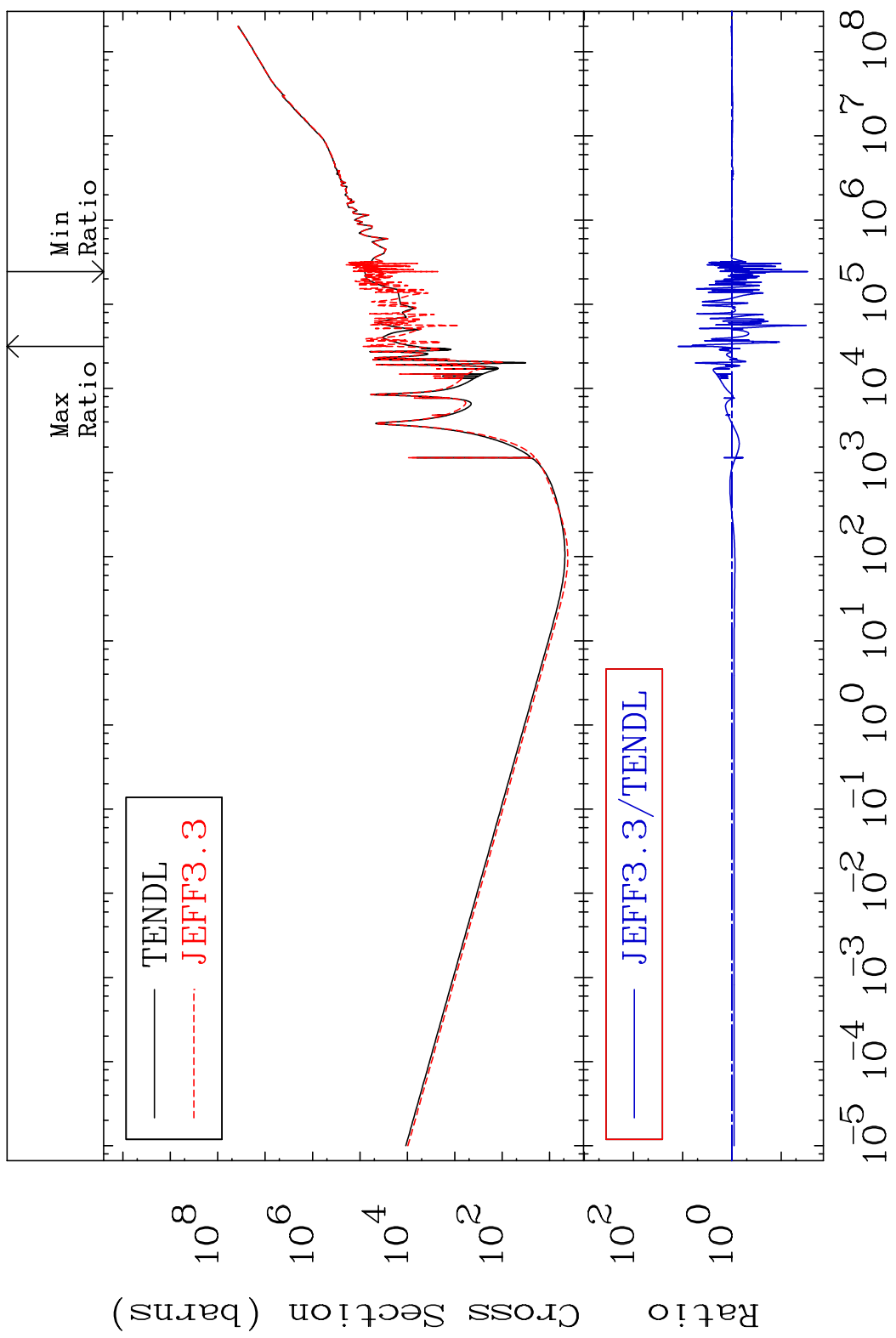


50

Incident Energy (eV)

22-Ti-49

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

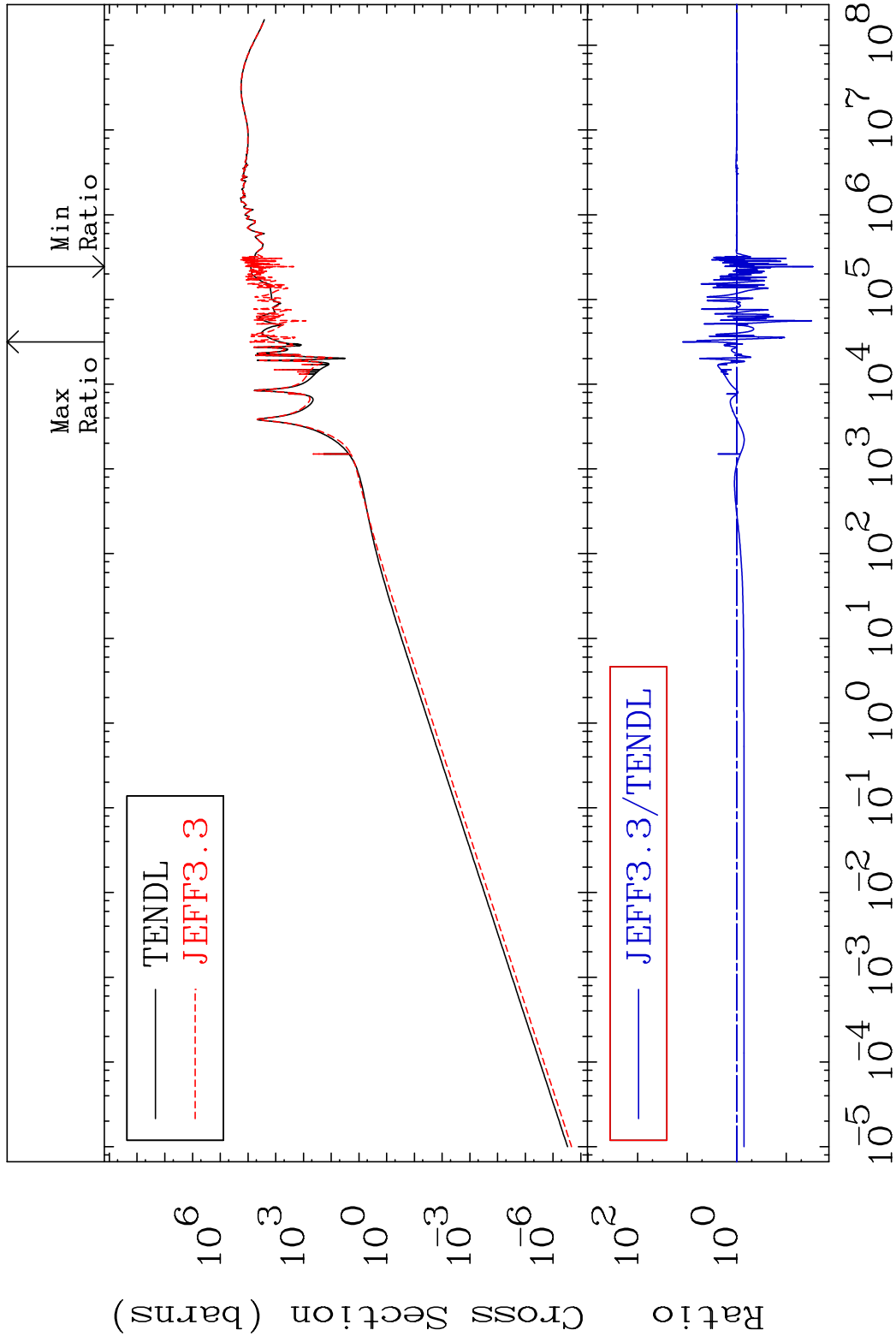


51 Incident Energy (eV) 22-Ti-49

MAT 2234

Kerma elastic
Cross Section

22-Ti-49
-97.12 To 1123. %

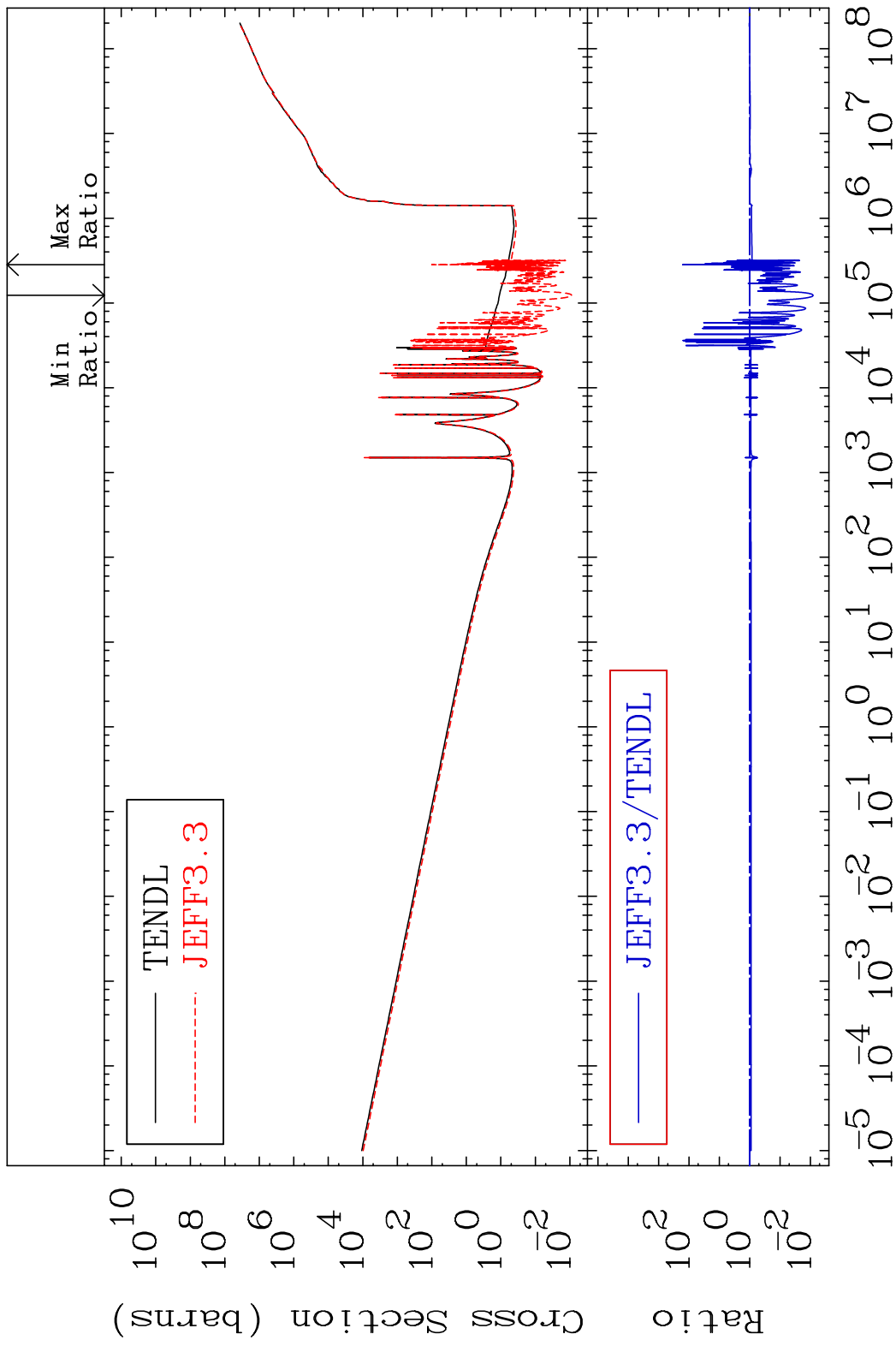


52

Incident Energy (eV)

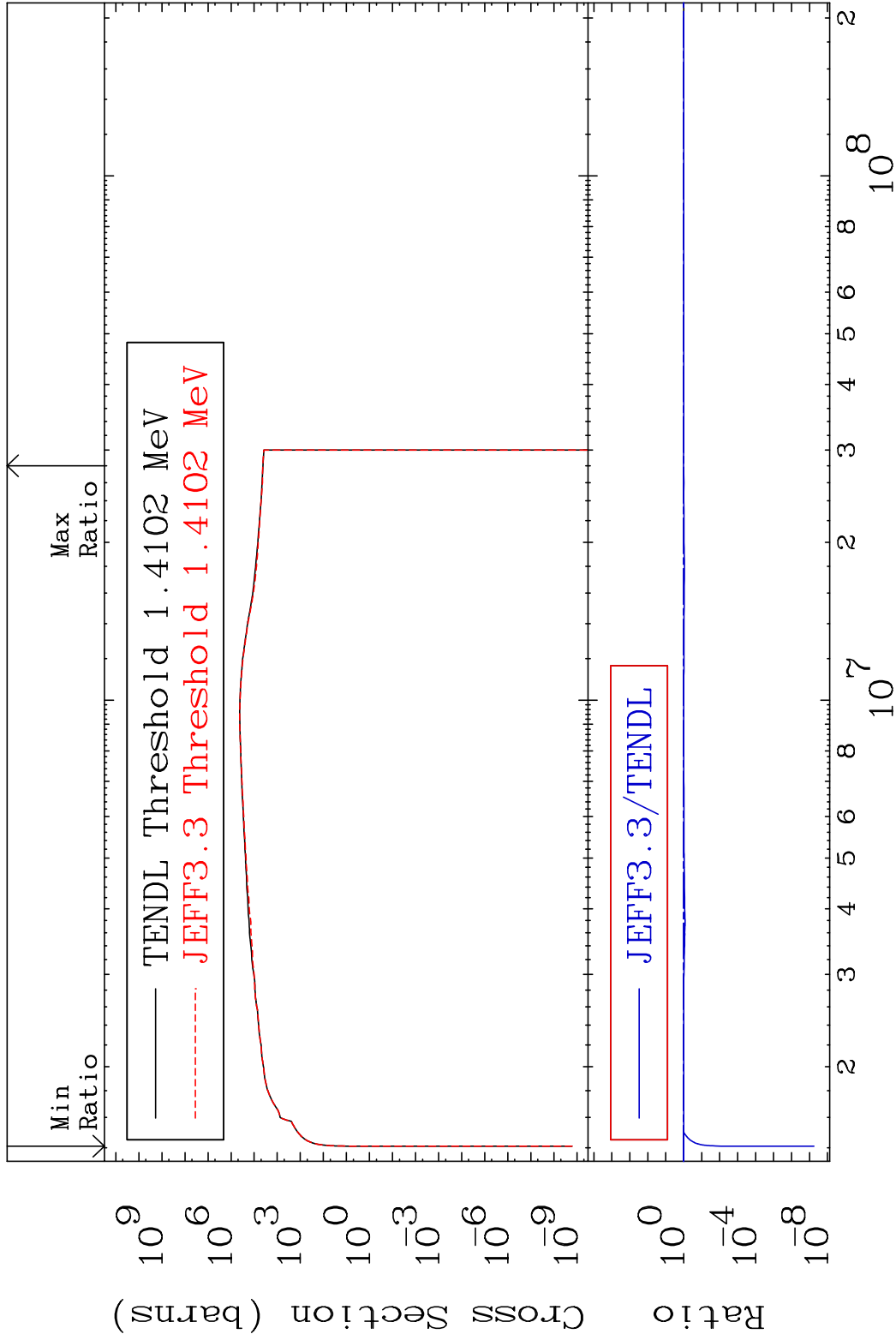
22-Ti-49

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

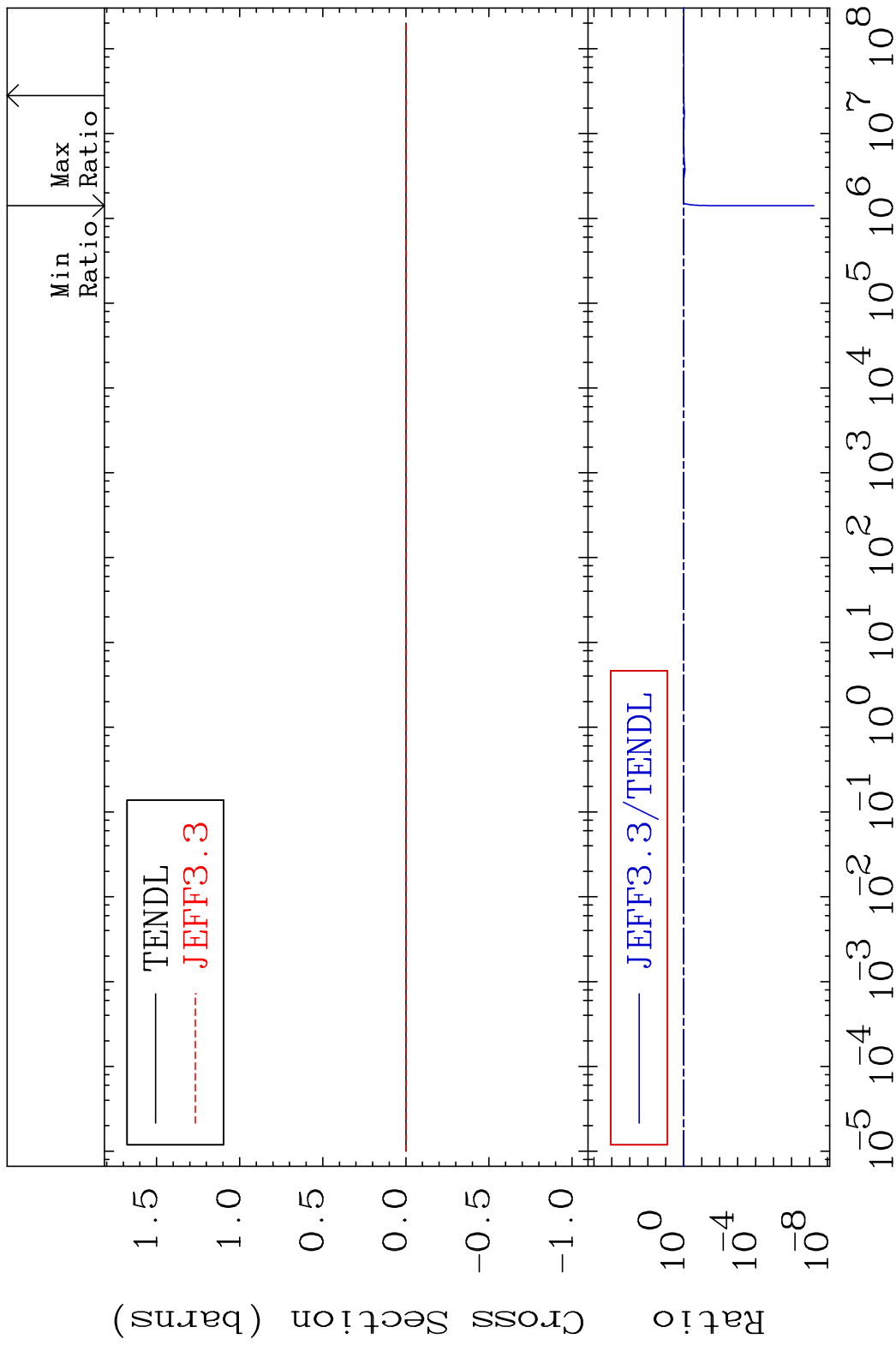


53 Incident Energy (eV) 22-Ti-49

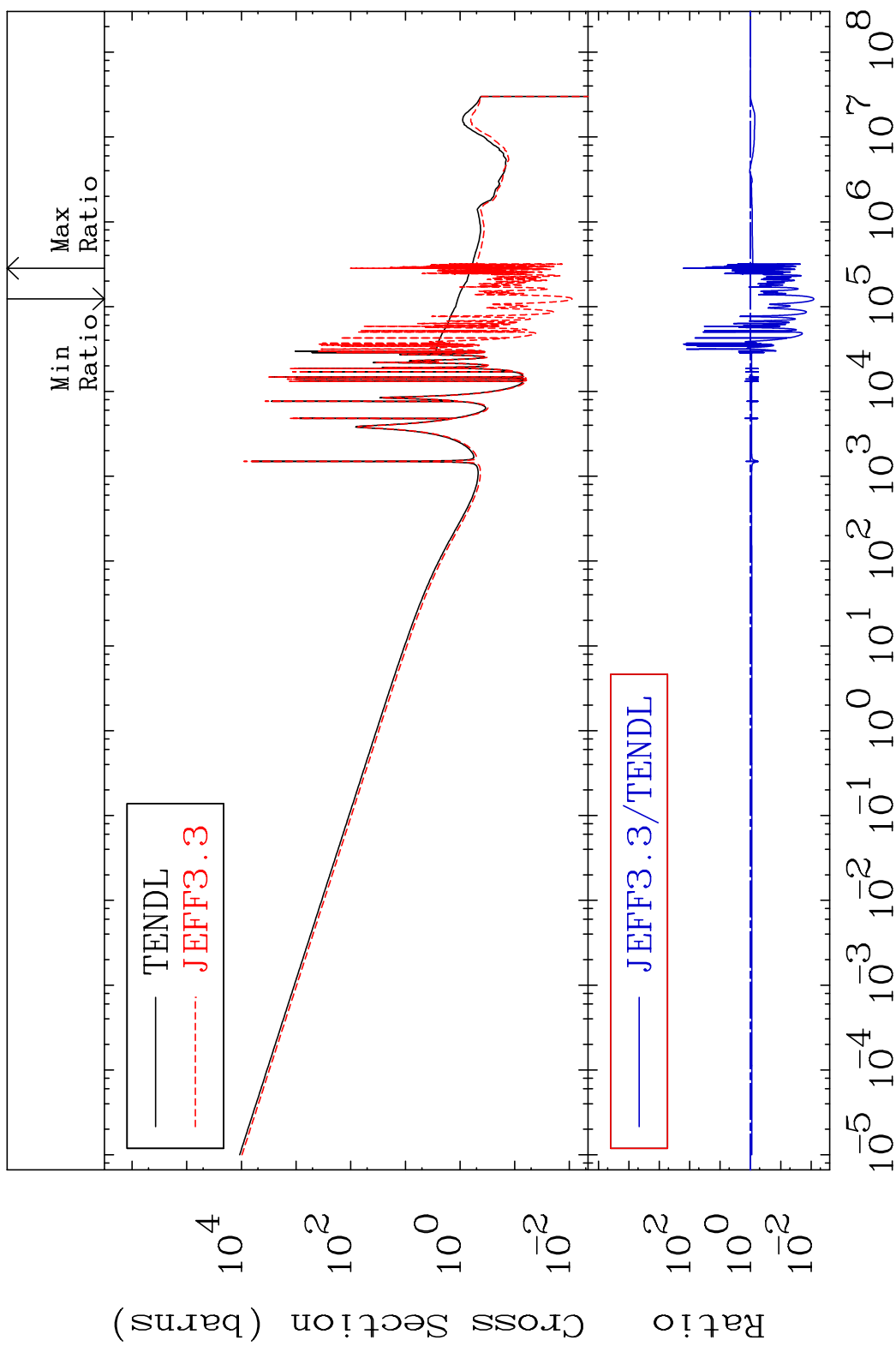
MAT 2234 Kerma inelastic (mt51-91) 22-Ti-49
 Cross Section -100.0 To 3.272 %



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

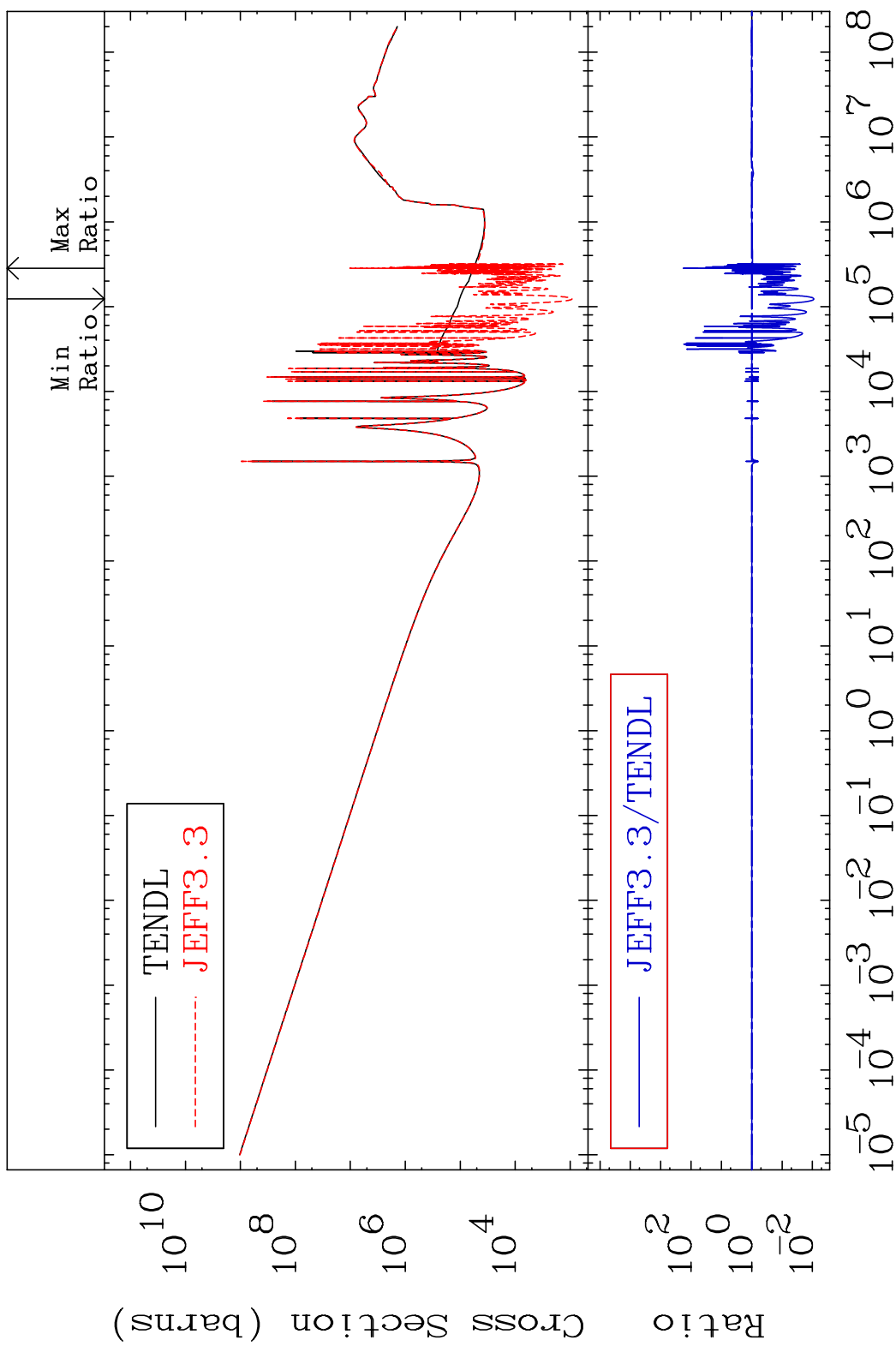


MAT 2234 Kerma capture (mt102) 22-Ti-49
 Cross Section -99.19 To 9999. %



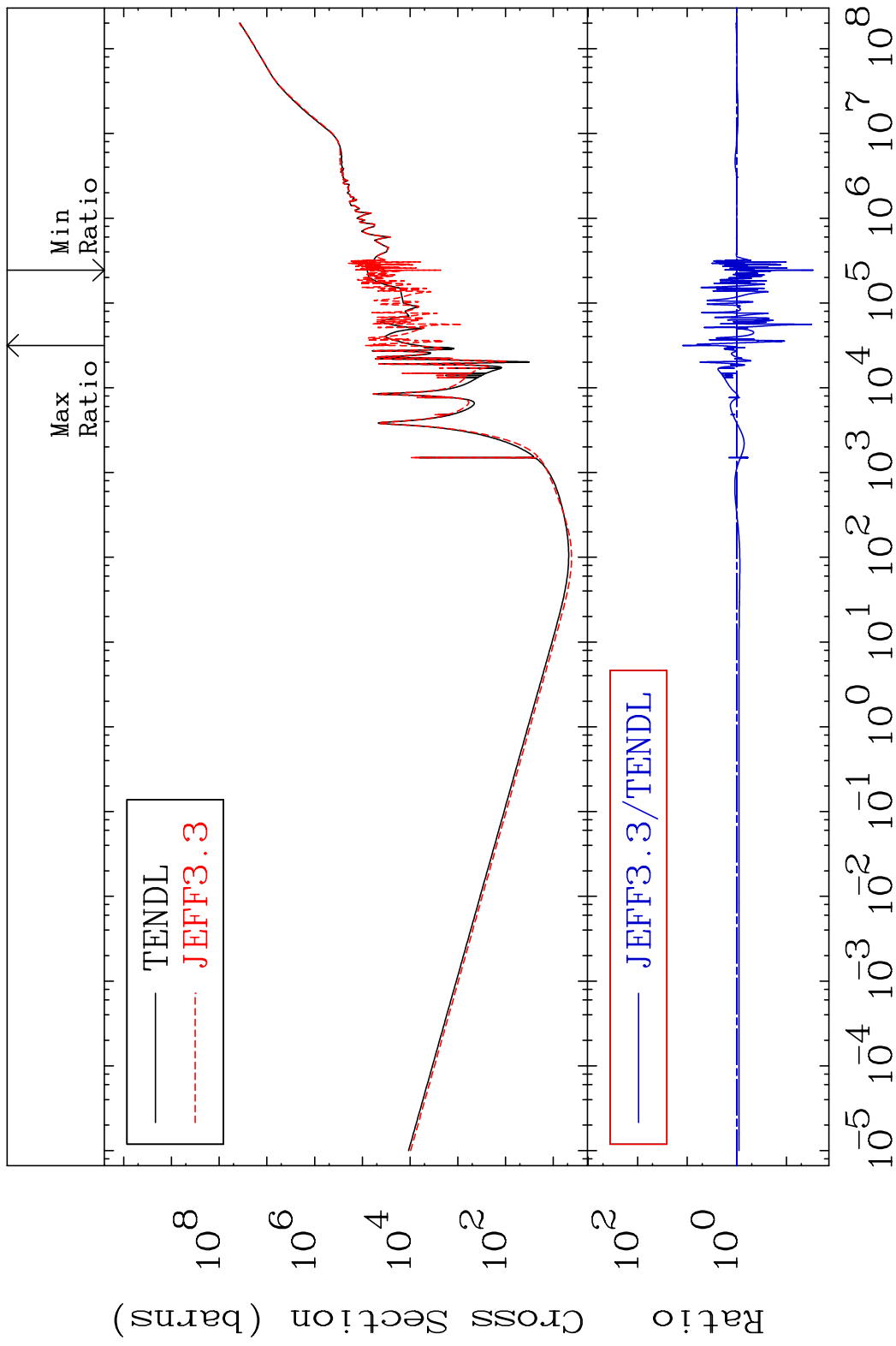
56 Incident Energy (eV) 22-Ti-49

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



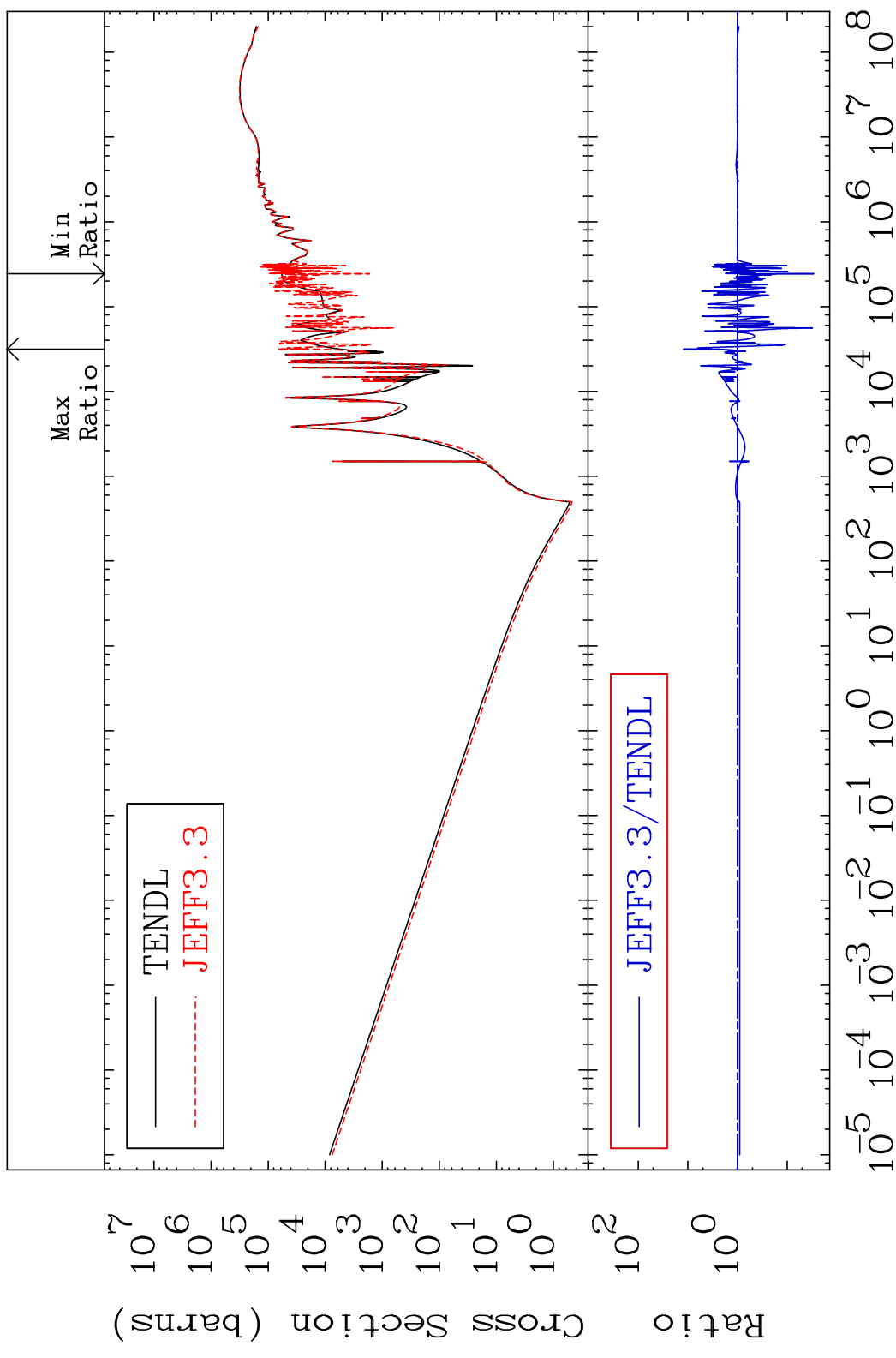
57 Incident Energy (eV) 22-Ti-49

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



58 Incident Energy (eV) 22-Ti-49

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



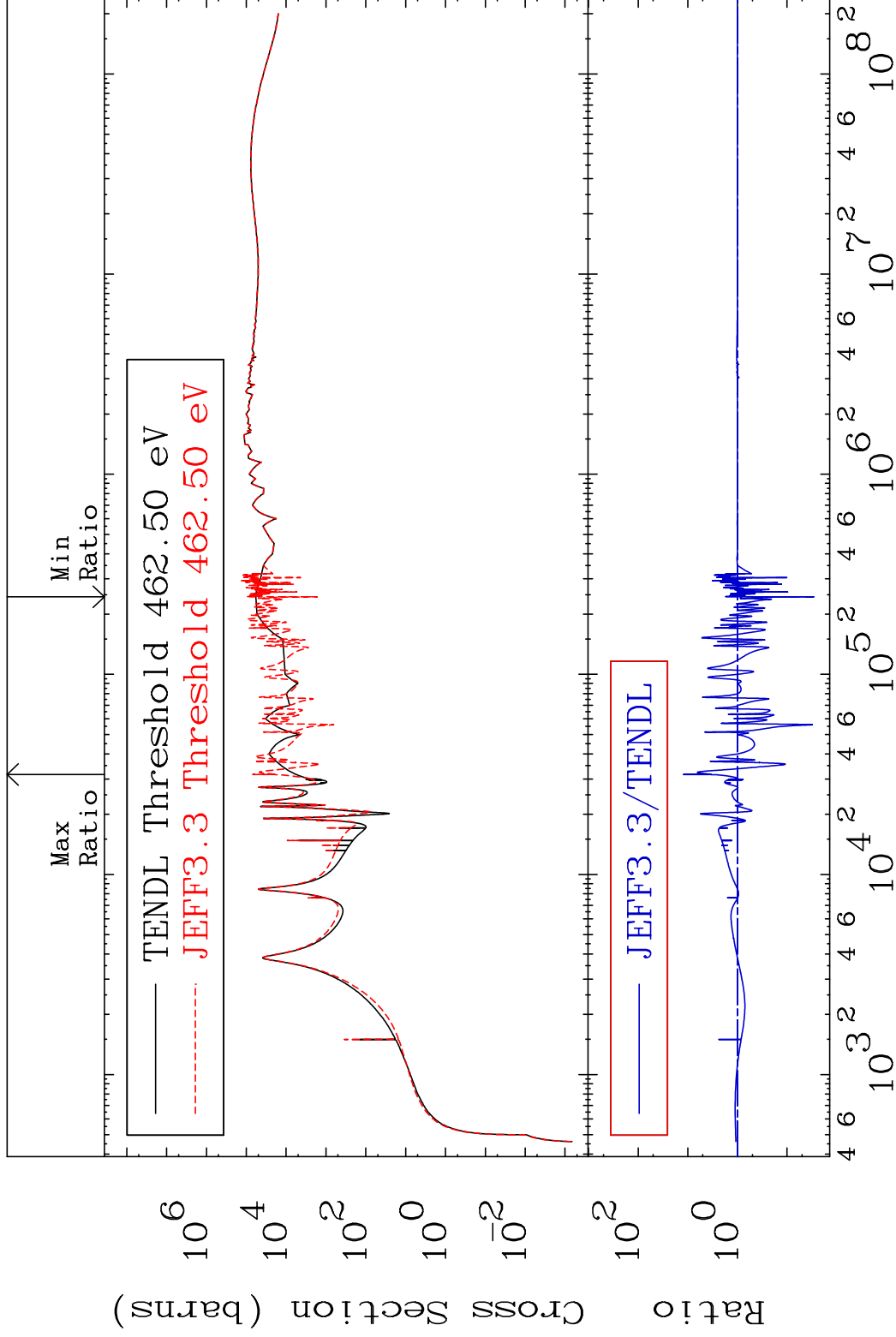
59 Incident Energy (eV) ²²Ti-49

MAT 2234

Dpa elastic (mt2)

22-Ti-49

Cross Section -97.12 To 1123. %

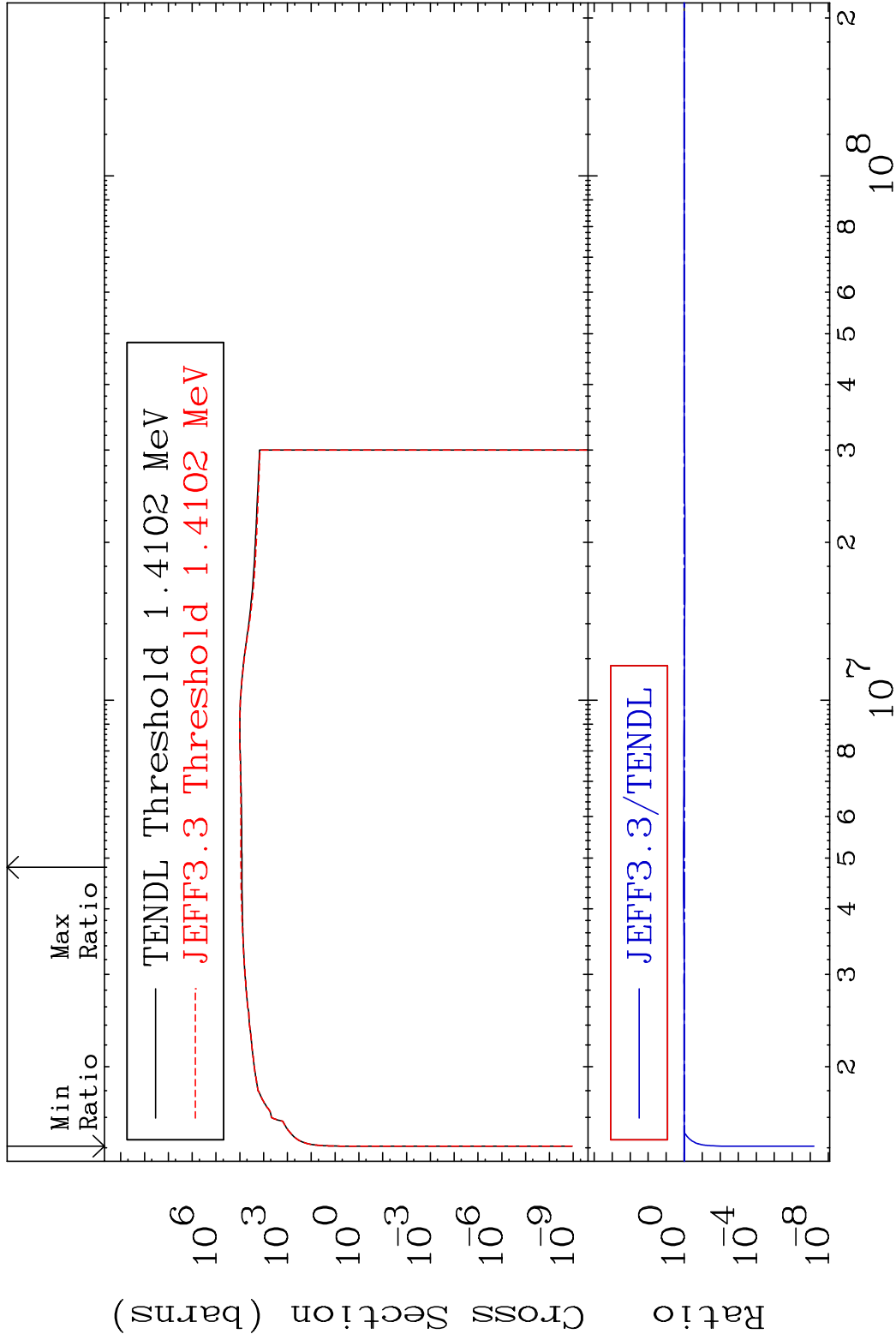


60

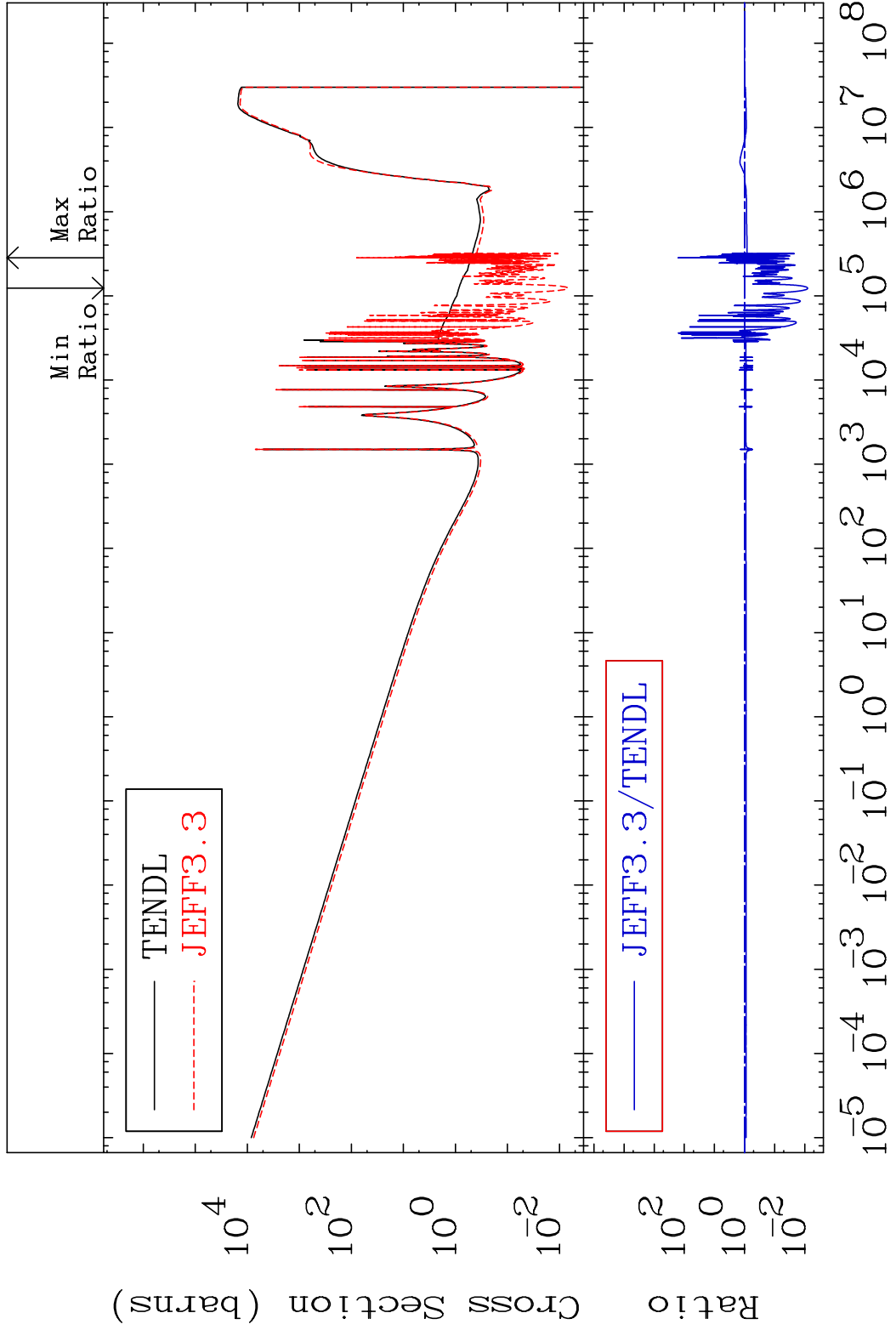
Incident Energy (eV)

22-Ti-49

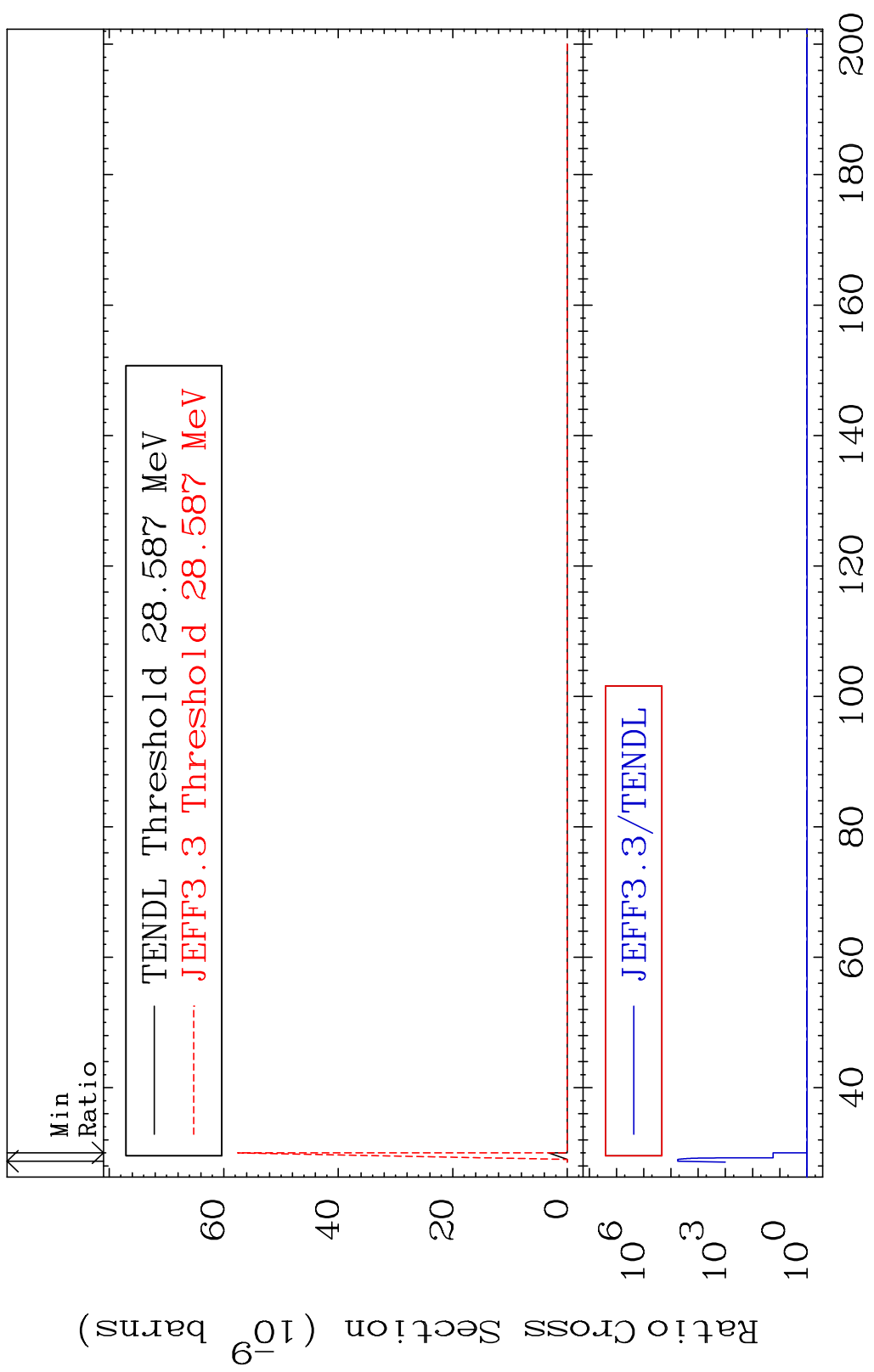
MAT 2234 Dpa inelastic (mt51-91) ²²Ti-49
 Cross Section -100.0 To 9.998 %

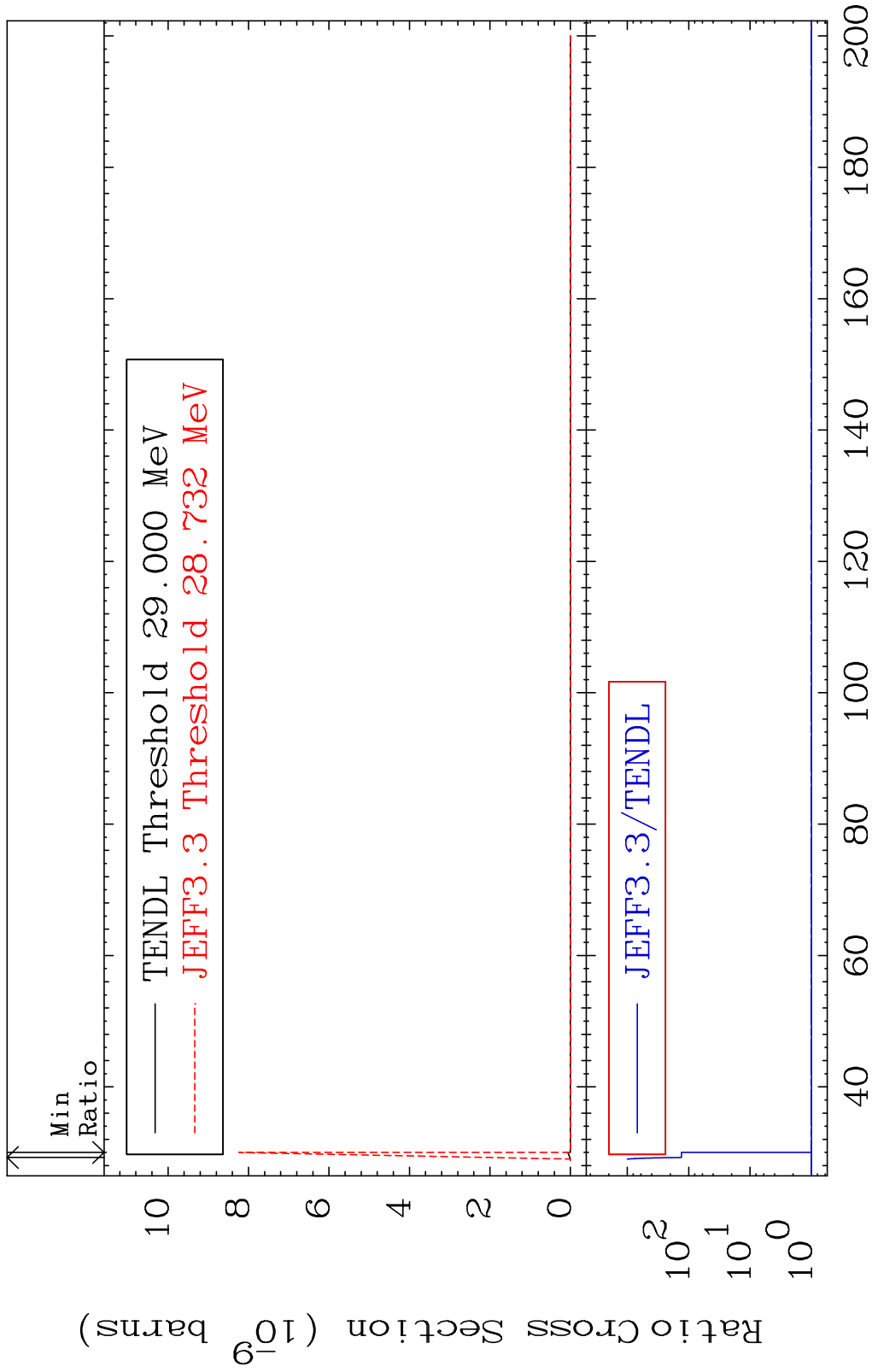


MAT 2234 Dpa disappearance (mt102 -120) 22-Ti-49
 Cross Section -99.19 To 9999. %

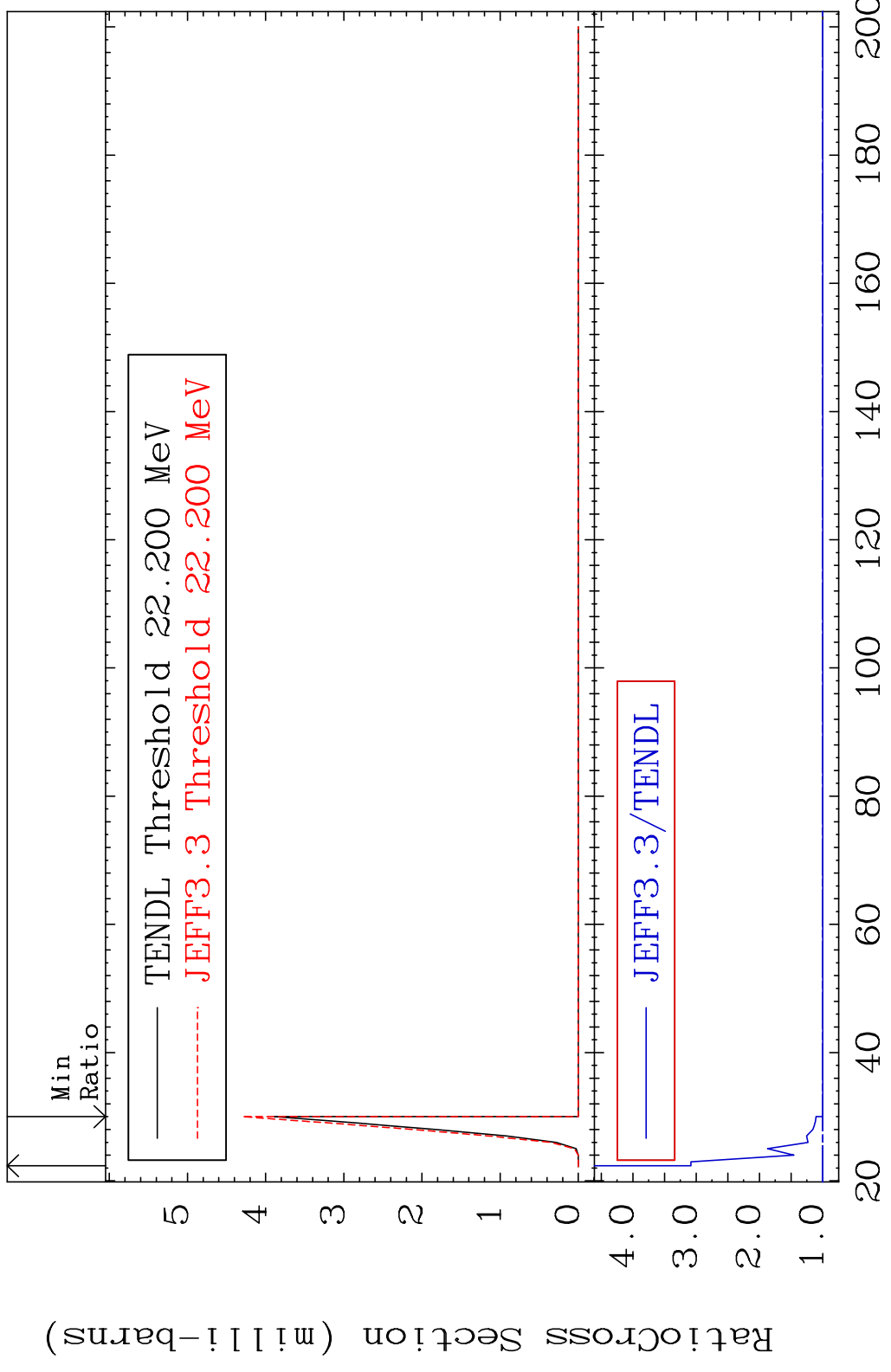


62 Incident Energy (eV) 22-Ti-49



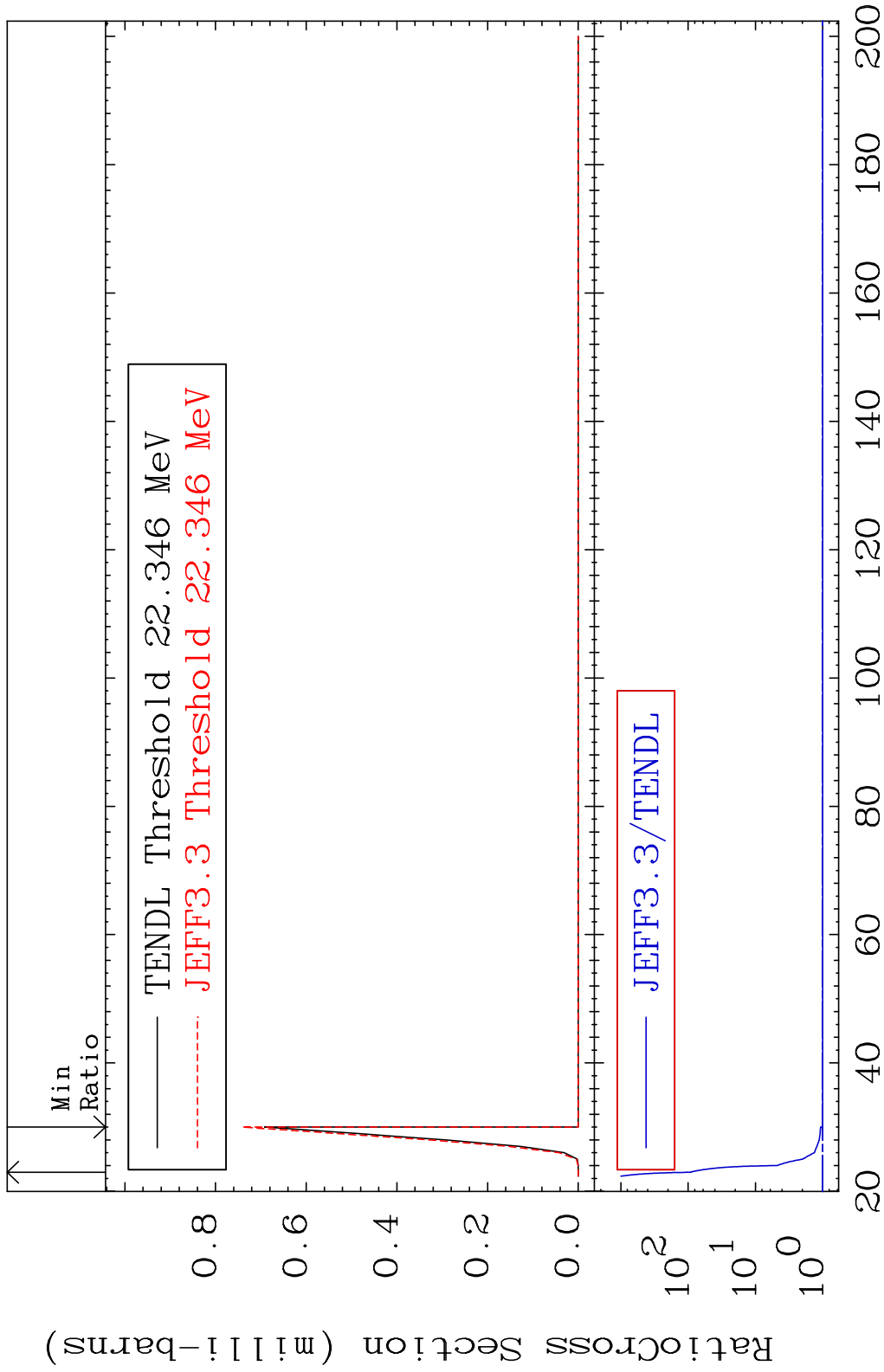


MAT 2234 (n, n') t:21-Sc-46g 22-Ti-49
 Radionuclide Production Cross Section 208.4 %



65 Incident Energy (MeV) 22-Ti-49

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



66 Incident Energy (MeV) 22-Ti-49