

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

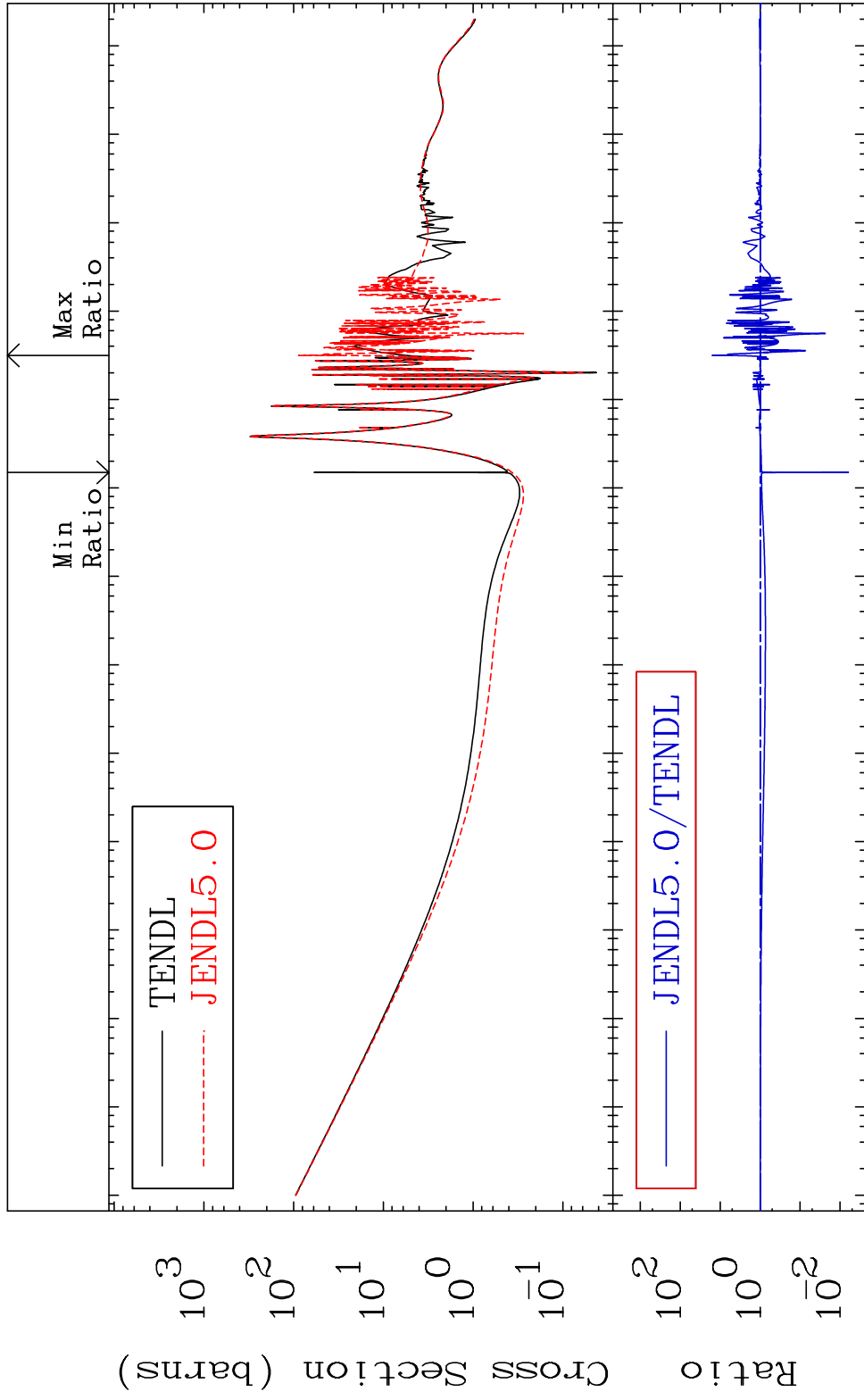
Press Mouse Button to Start

MAT 2234

Total

22-Ti-49

Cross Section -99.38 To 1470. %



1

Incident Energy (eV)

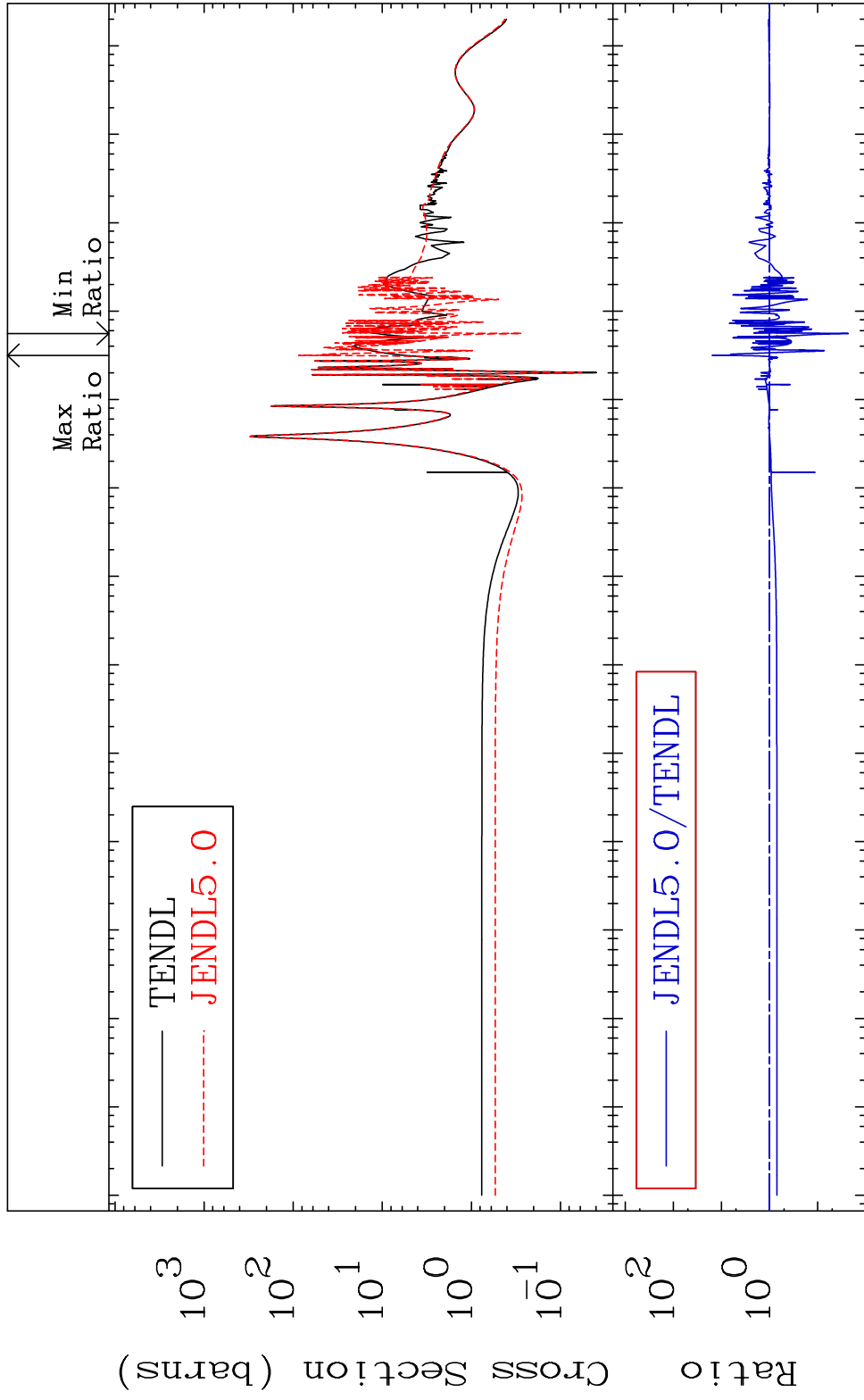
22-Ti-49

MAT 2234

Elastic

22-Ti-49

Cross Section -97.69 To 1447. %



2

Incident Energy (eV)

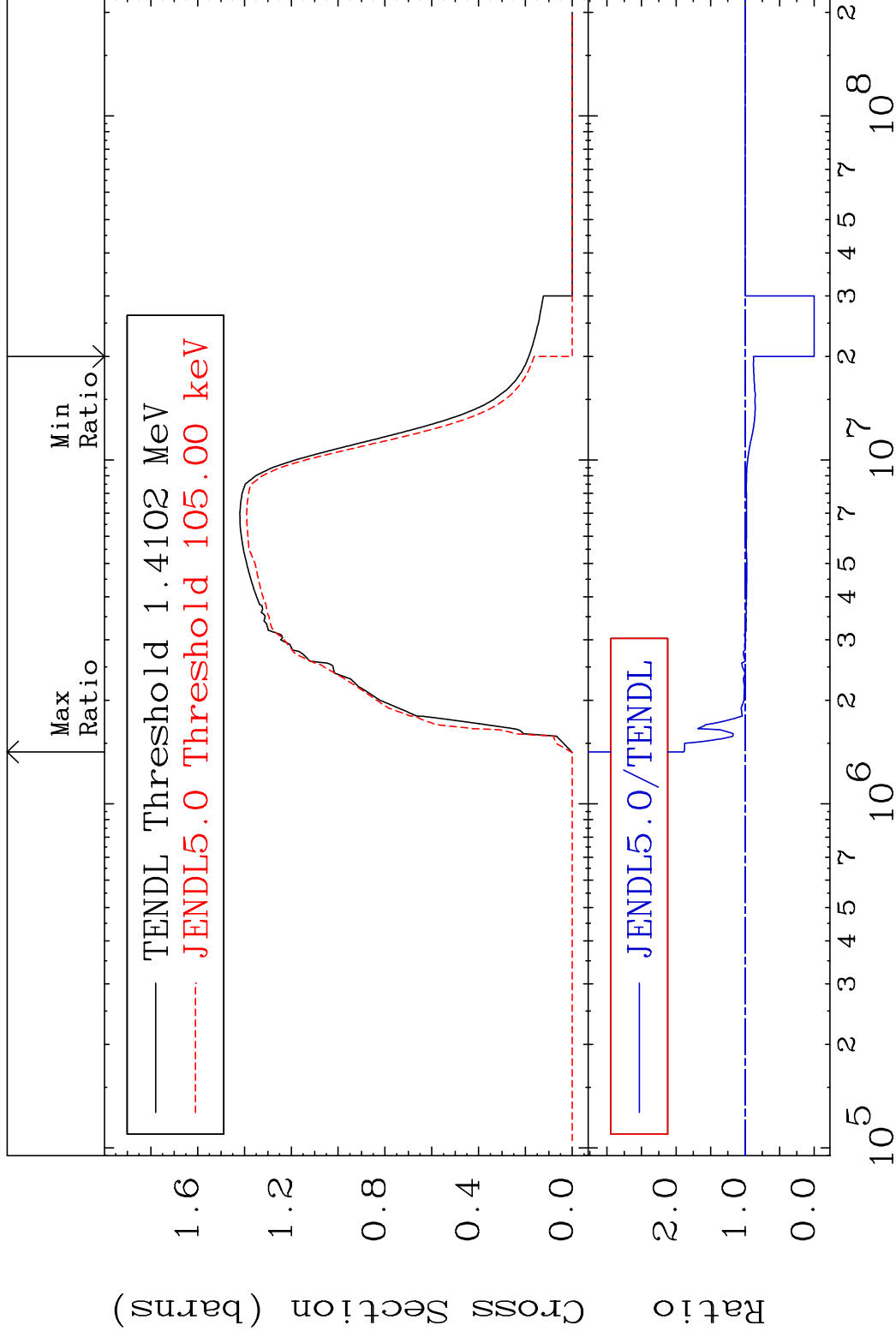
22-Ti-49

MAT 2234

Inelastic

²²Ti-49

Cross Section -100.0 To 88.97 %



3

Incident Energy (eV)

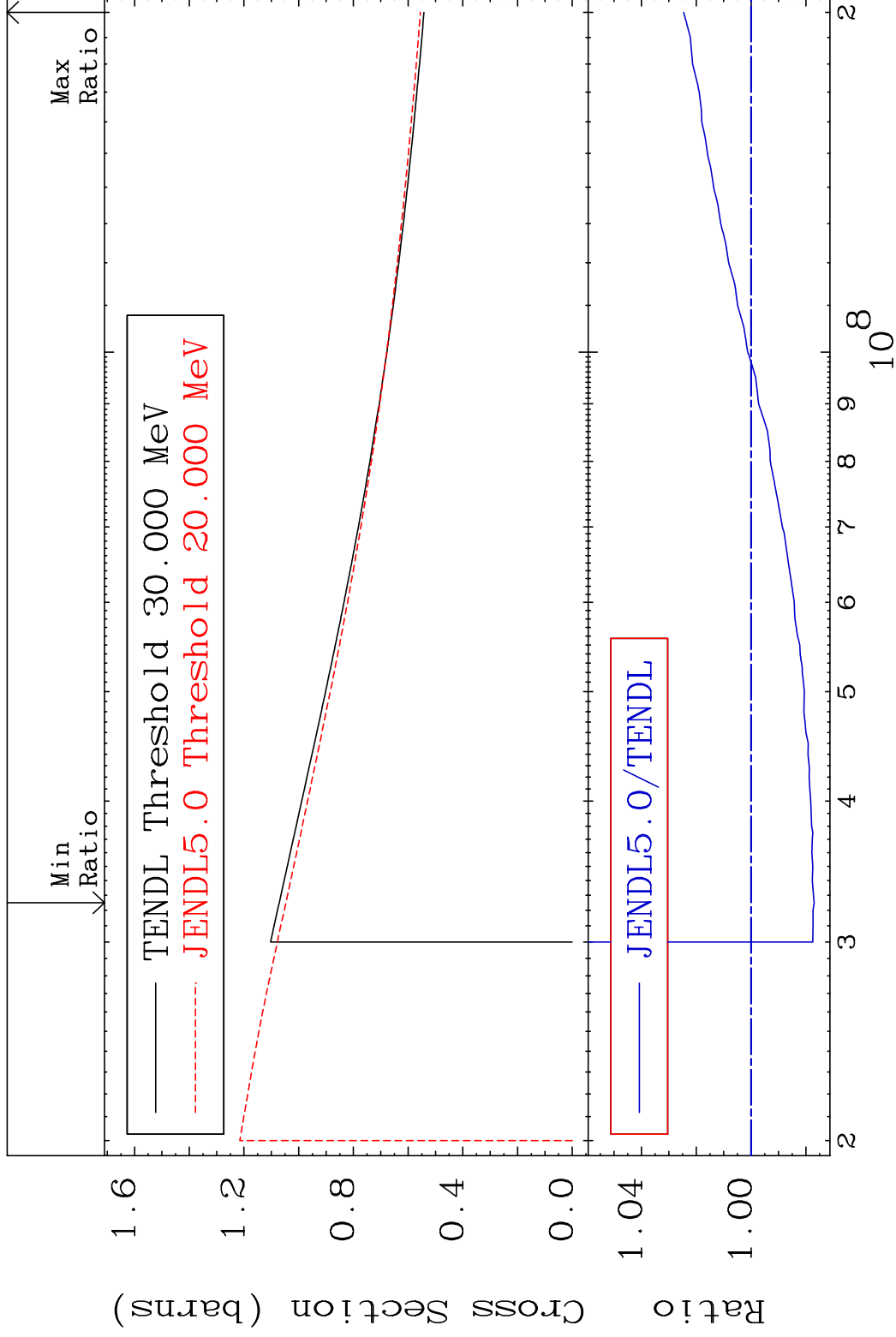
²²Ti-49

MAT 2234

(n, remainder)

22-Ti-49

Cross Section -2.299 To 2.459 %



4

Incident Energy (eV)

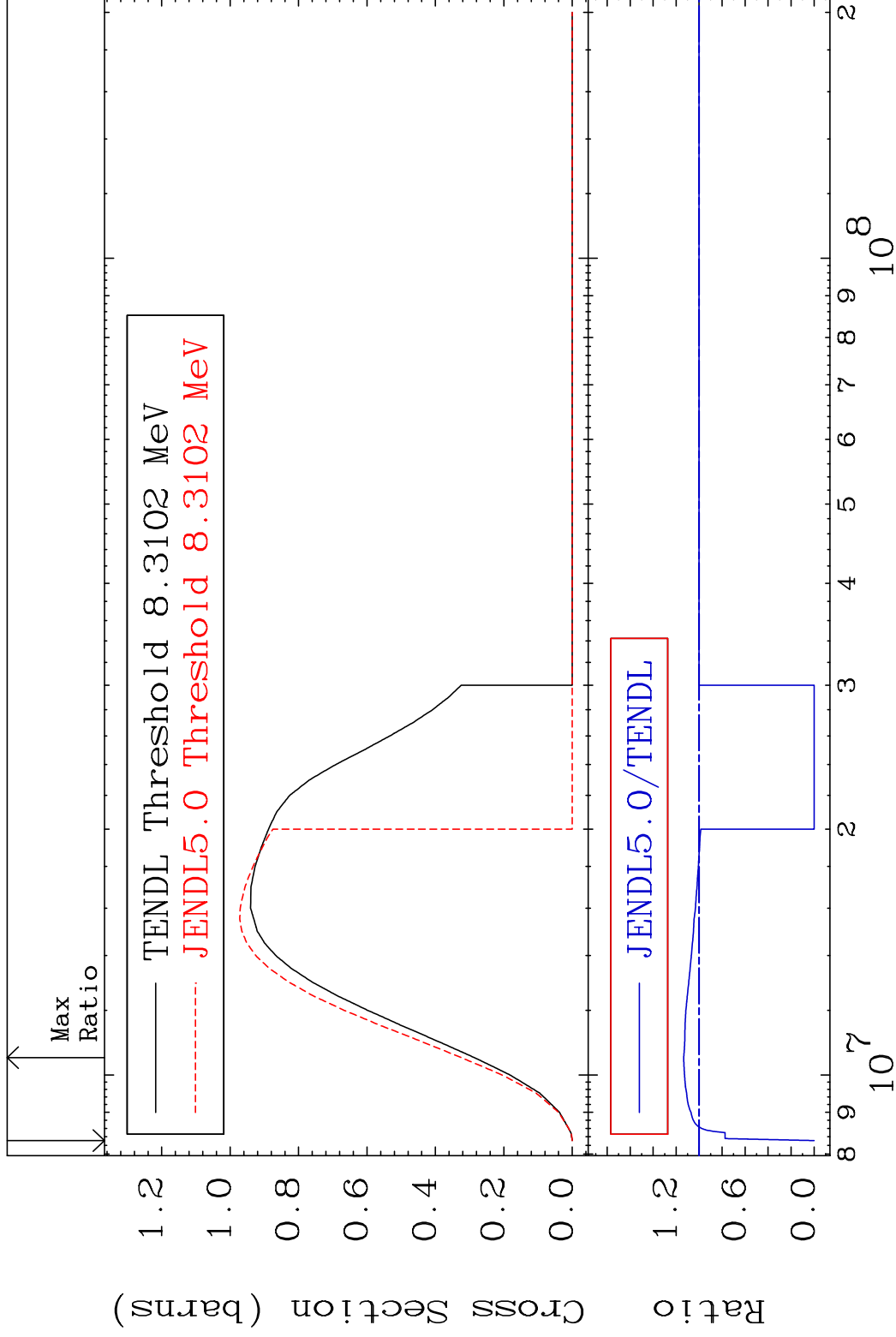
22-Ti-49

MAT 2234

(n,2n)

²²Ti-49

Cross Section -100.0 To 13.44 %



5

Incident Energy (eV)

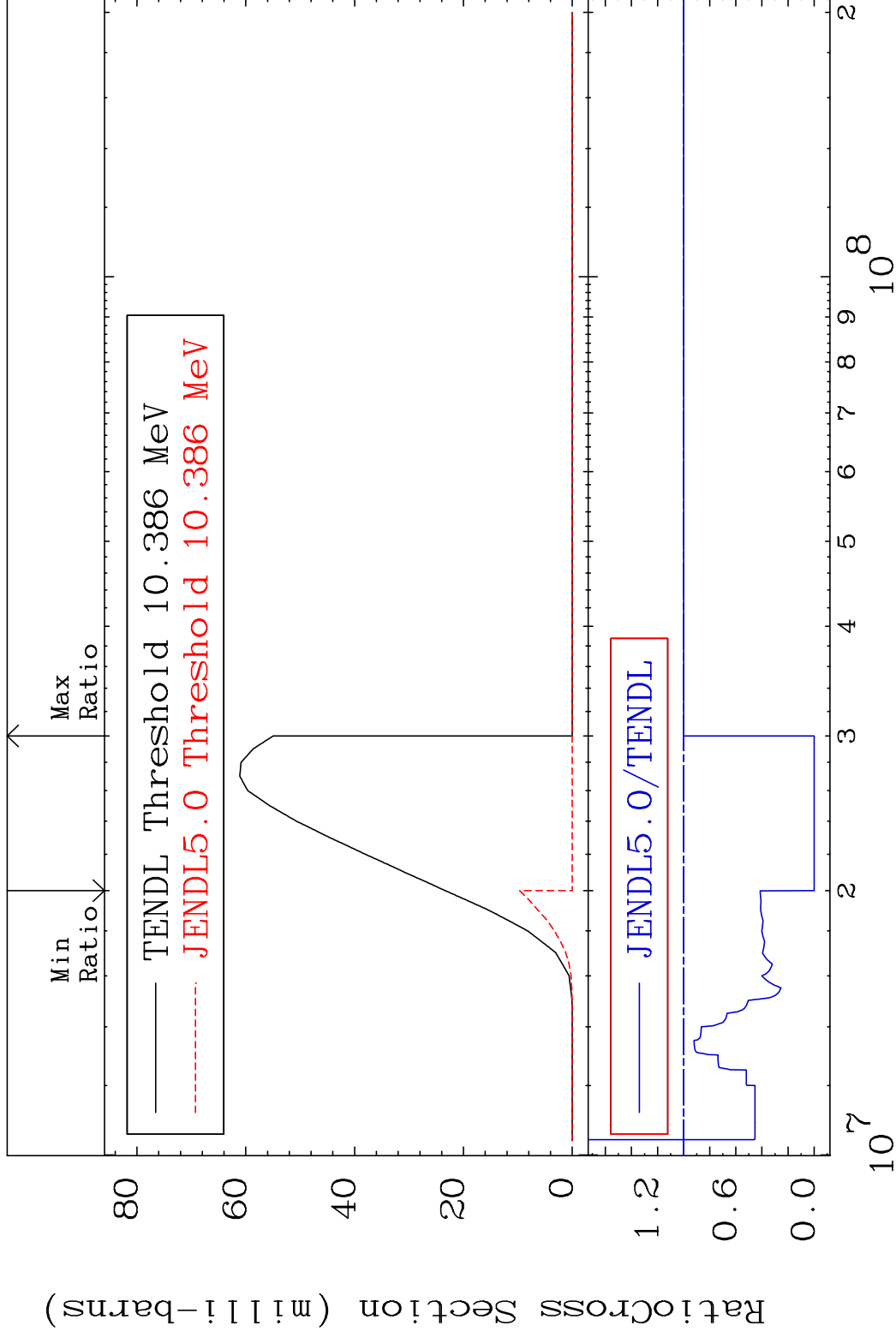
²²Ti-49

MAT 2234

(n, n') α

²²Ti-49

Cross Section -100.0 To 0.000 %

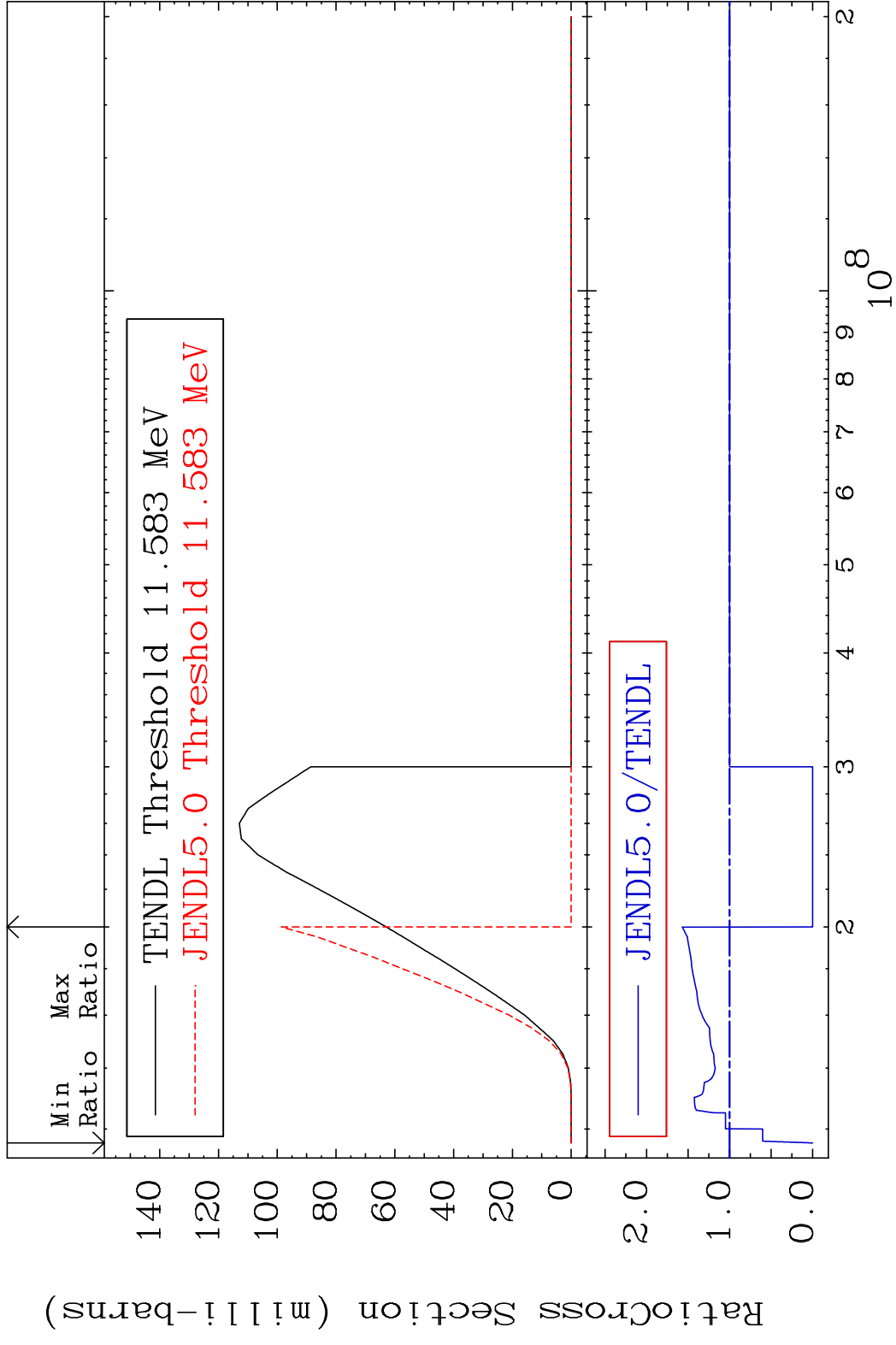


6

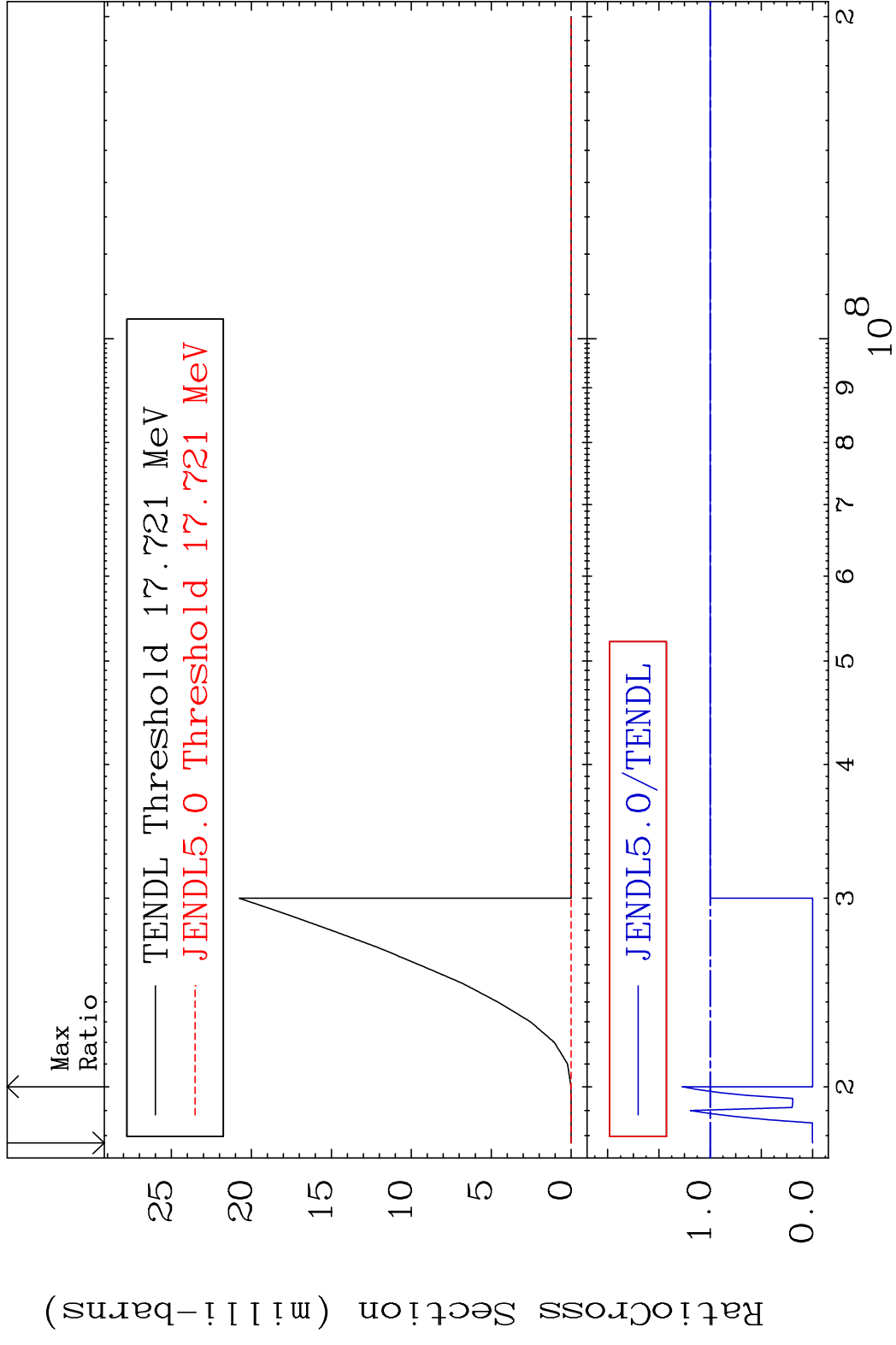
Incident Energy (eV)

²²Ti-49

MAT 2234 (n, n') p 22-Ti-49
 Cross Section -100.0 To 56.82 %

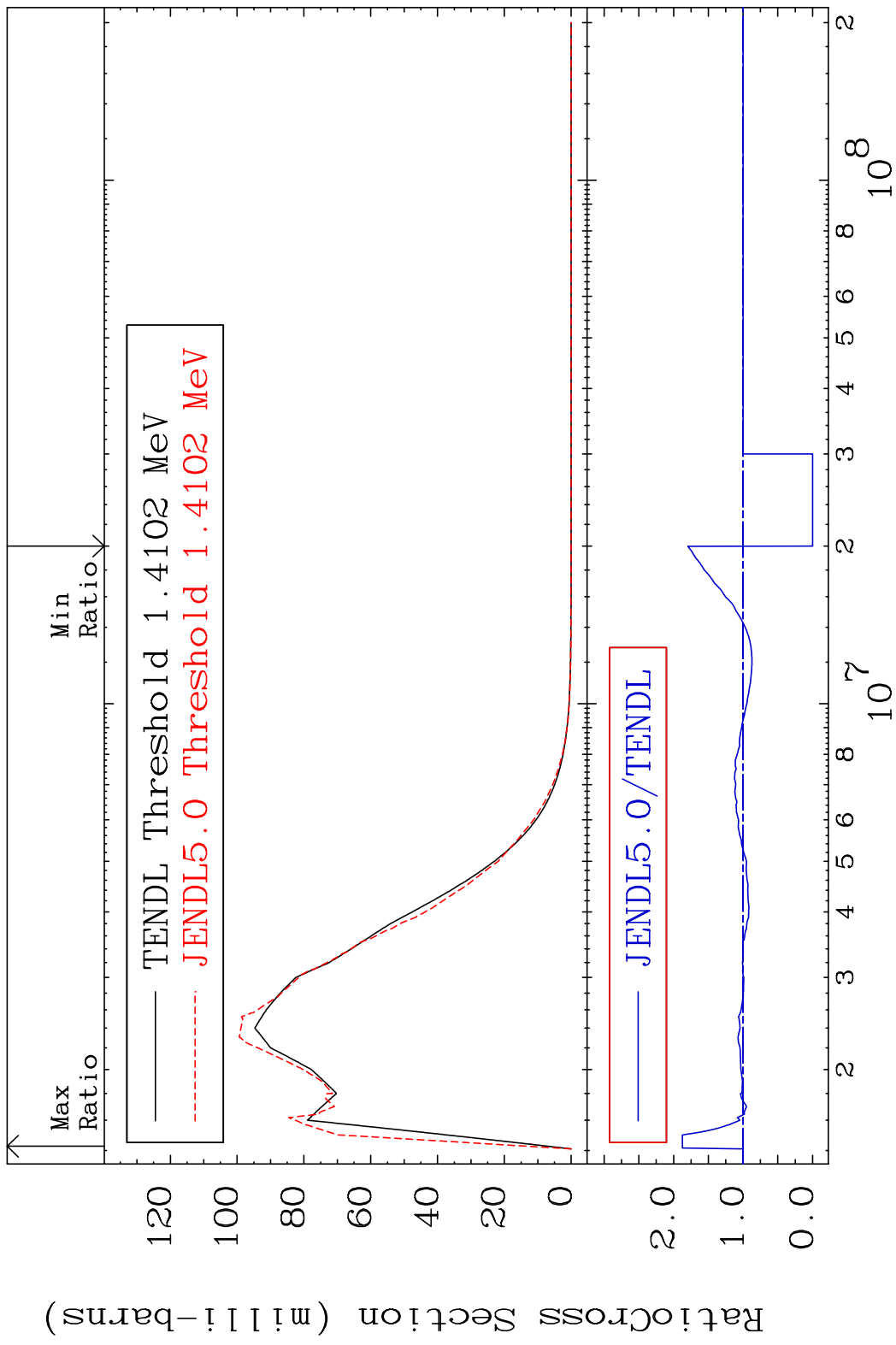


MAT 2234 (n, n') d 22-Ti-49
 Cross Section -100.0 To 27.10 %

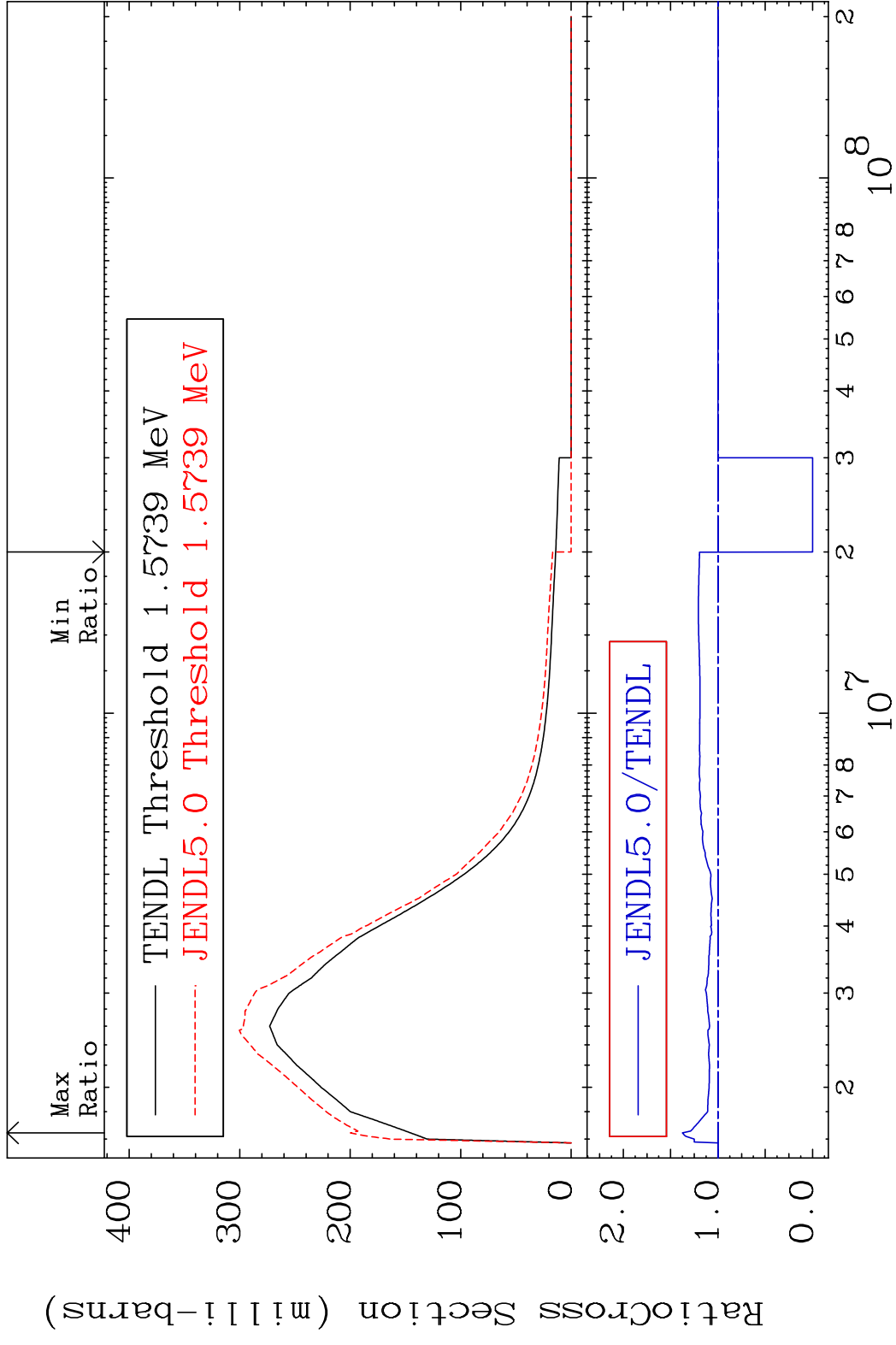


8 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 51 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 87.45 %

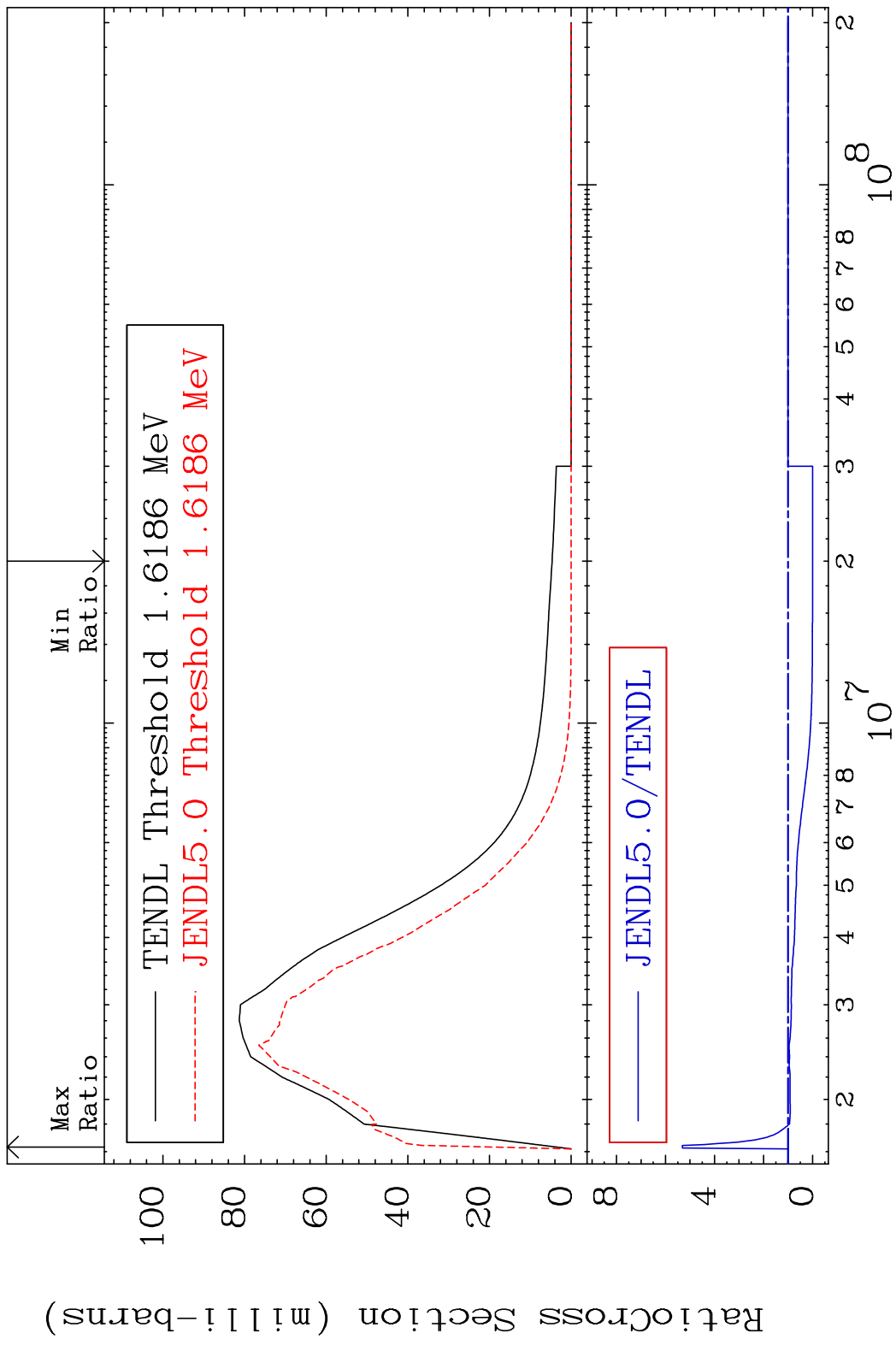


MAT 2234 MT= 52 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 37.59 %



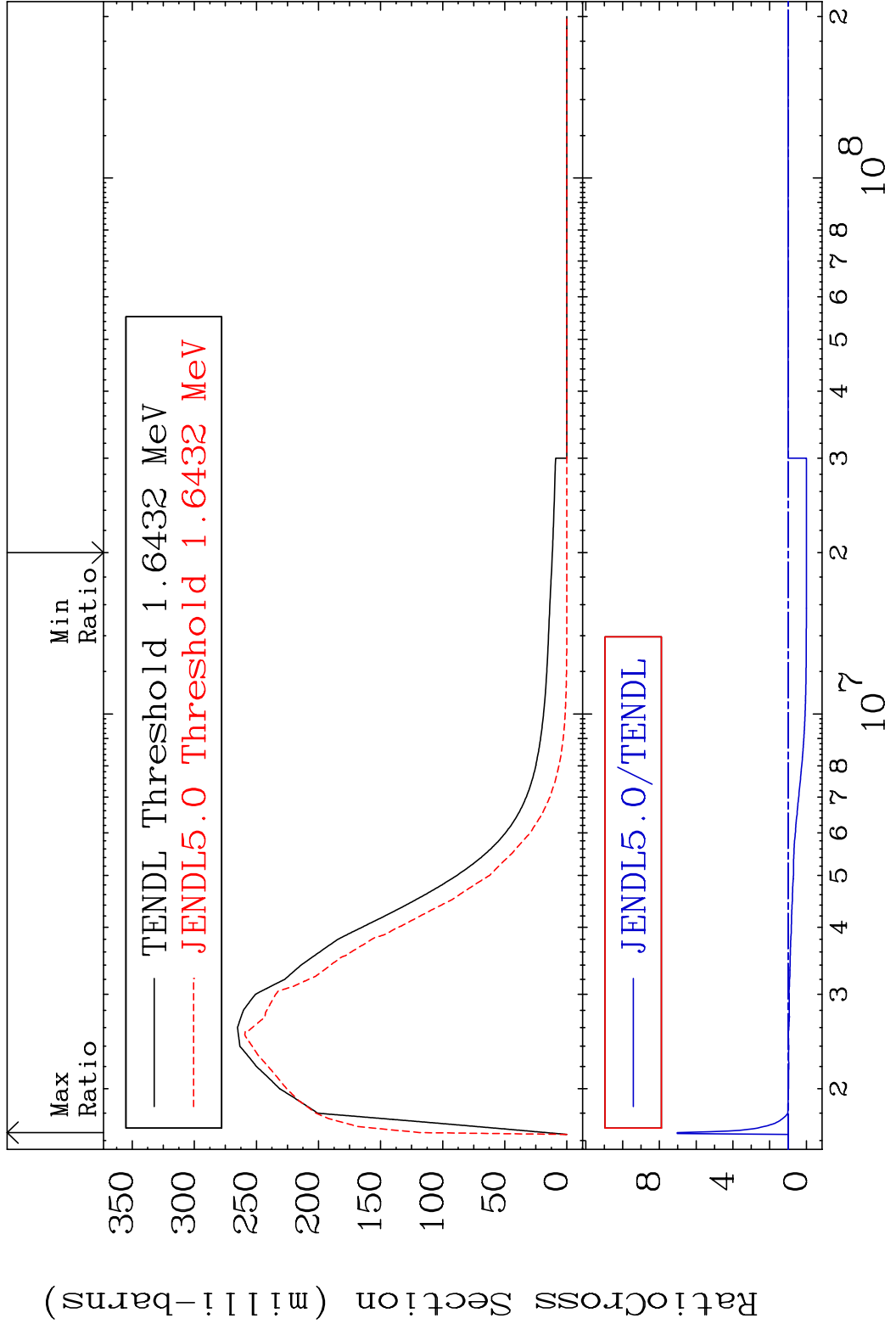
10 2 3 4 5 6 7 8 10⁸ 2

MAT 2234 MT= 53 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 431.3 %

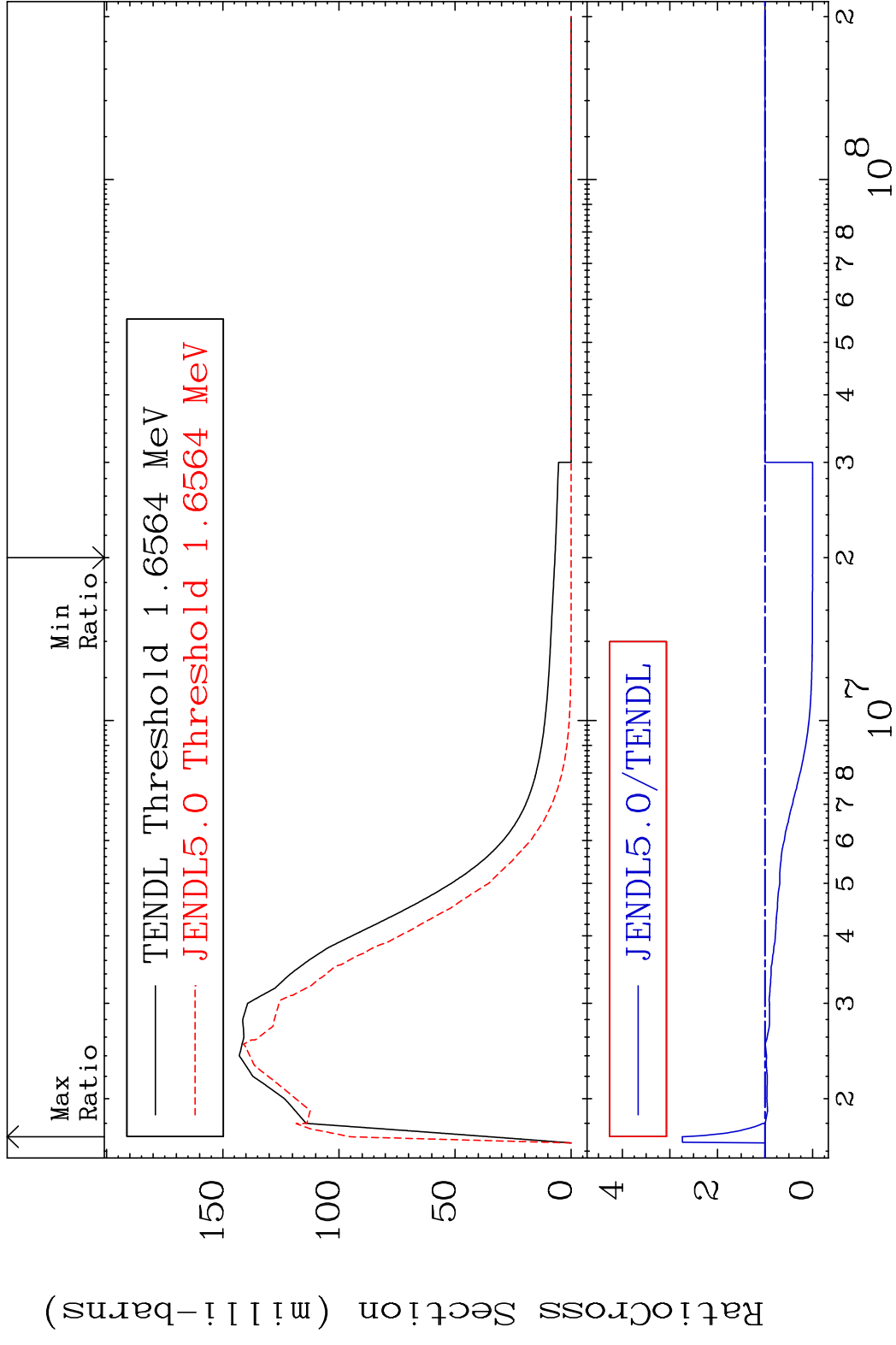


11 Incident Energy (eV) 22-Ti-49

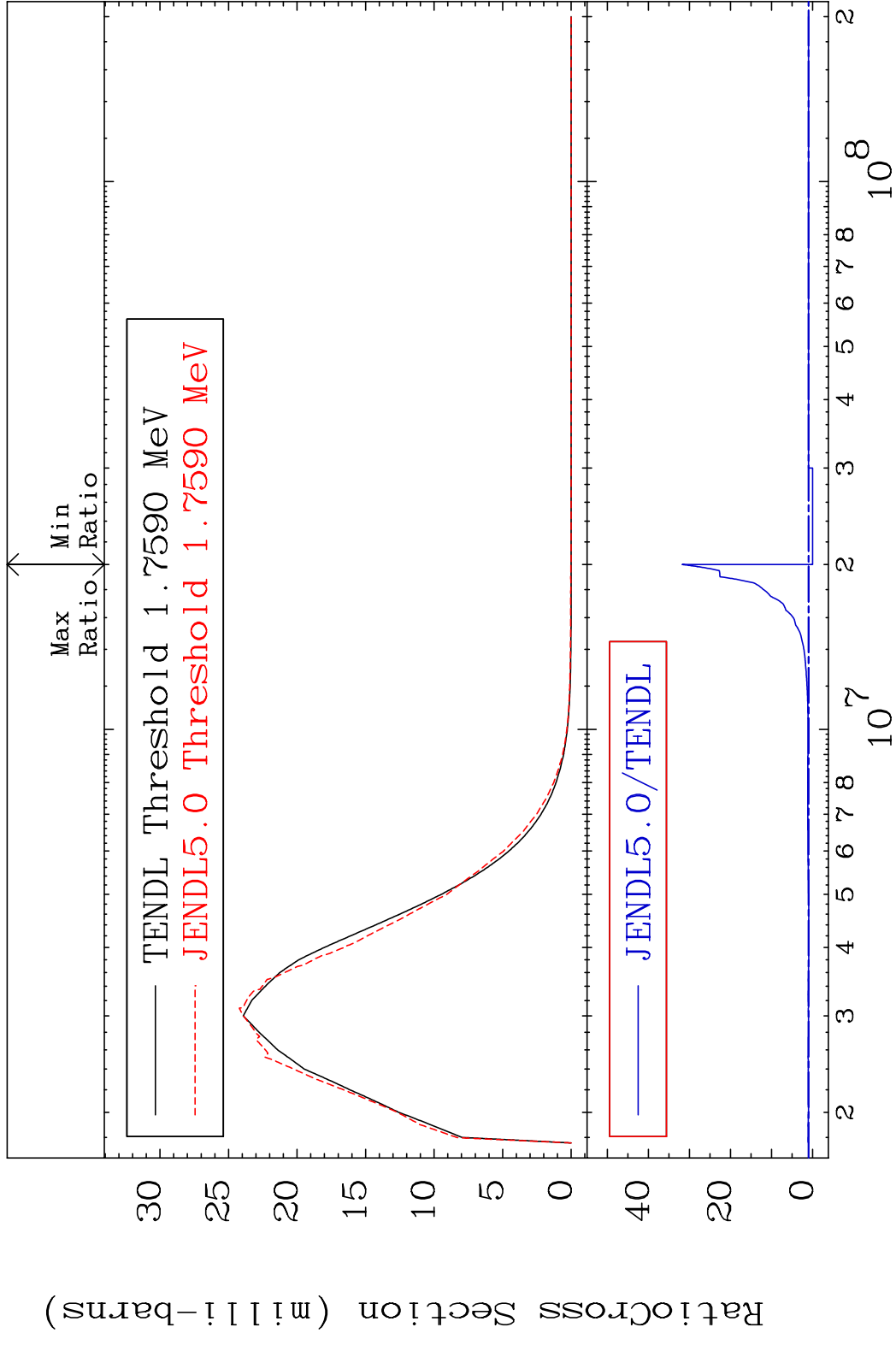
MAT 2234 MT= 54 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 603.1 %



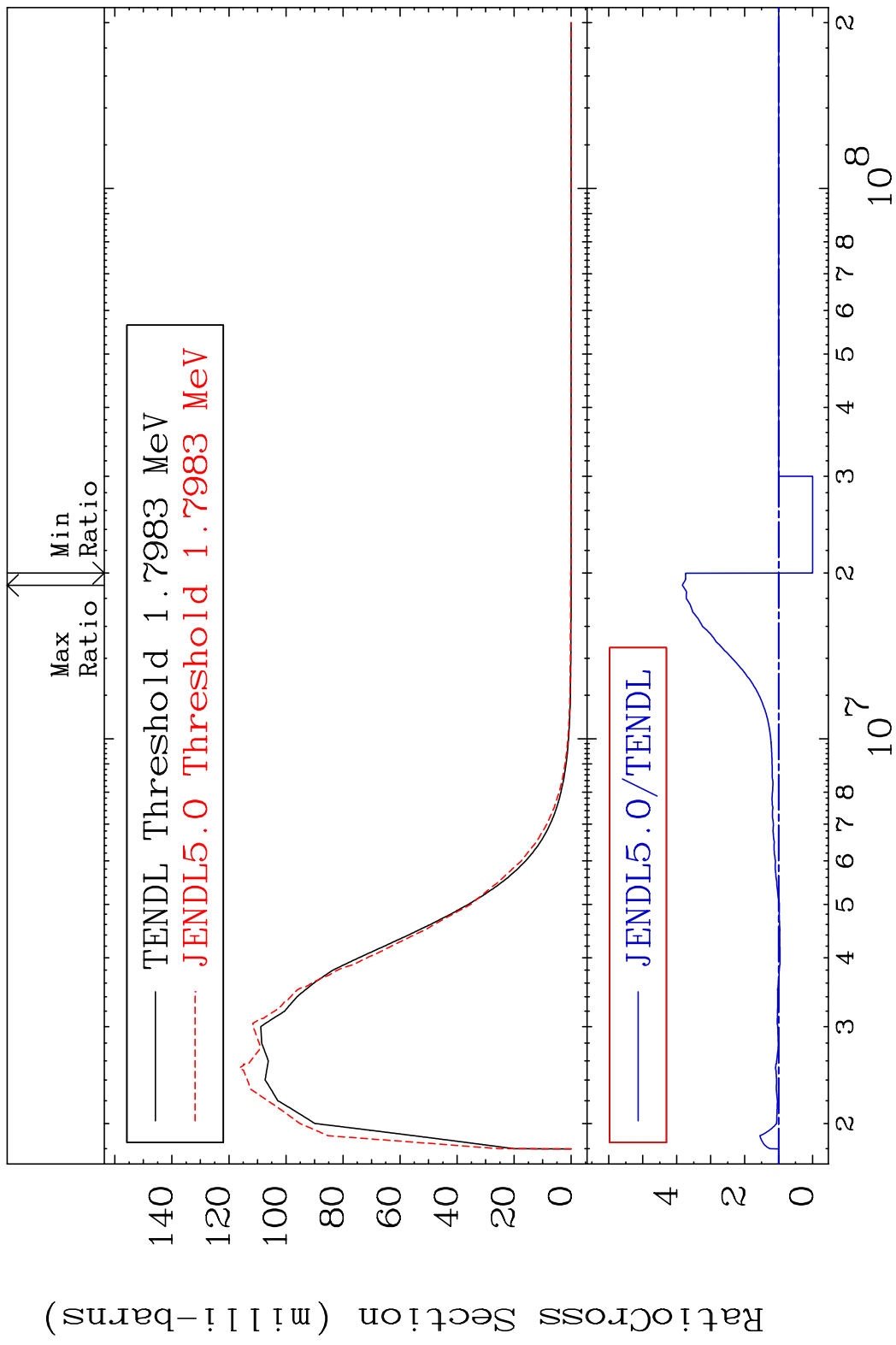
MAT 2234 MT= 55 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 173.8 %



MAT 2234 MT= 56 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 3072. %

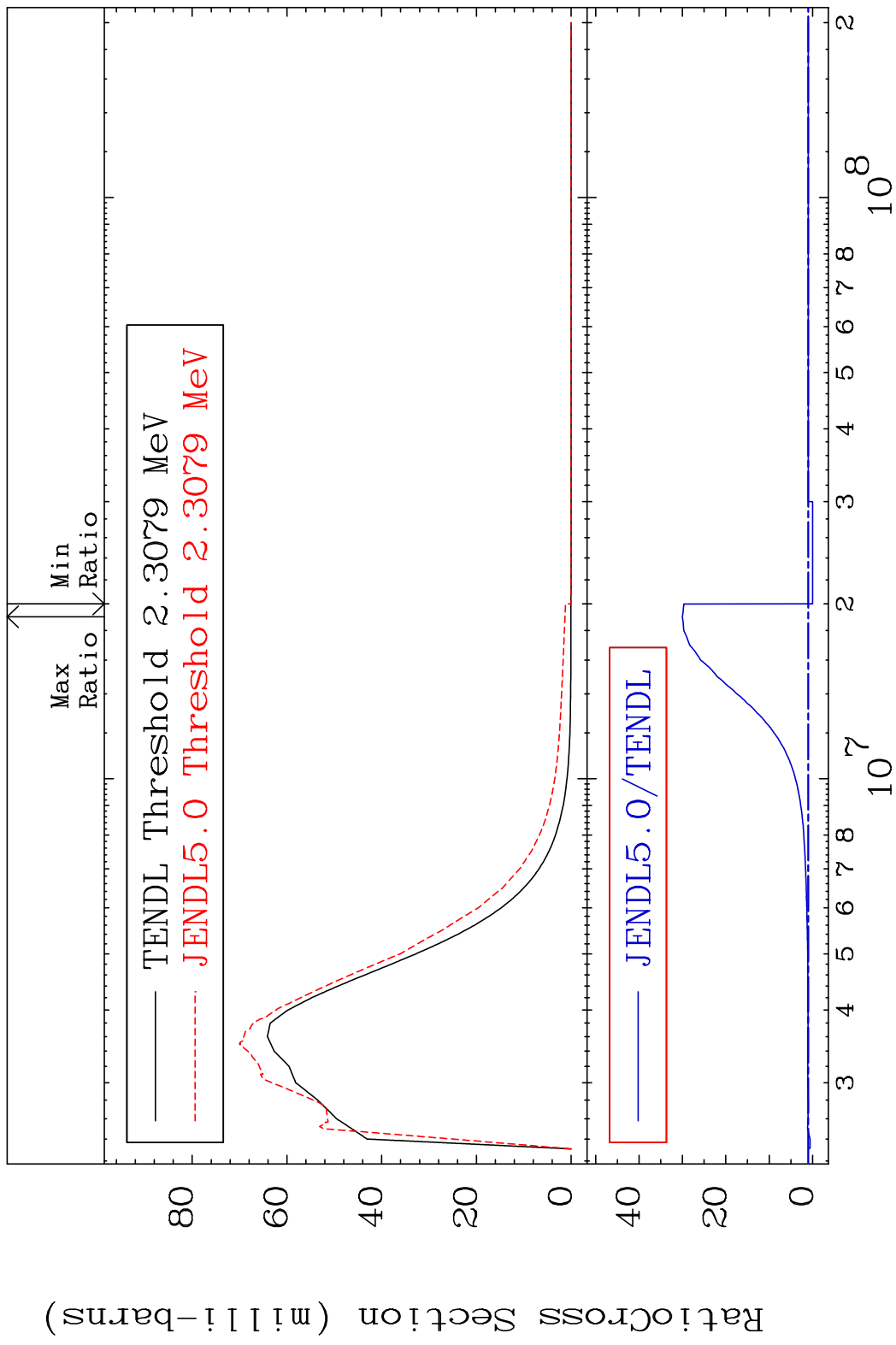


MAT 2234 MT= 57 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 283.5 %

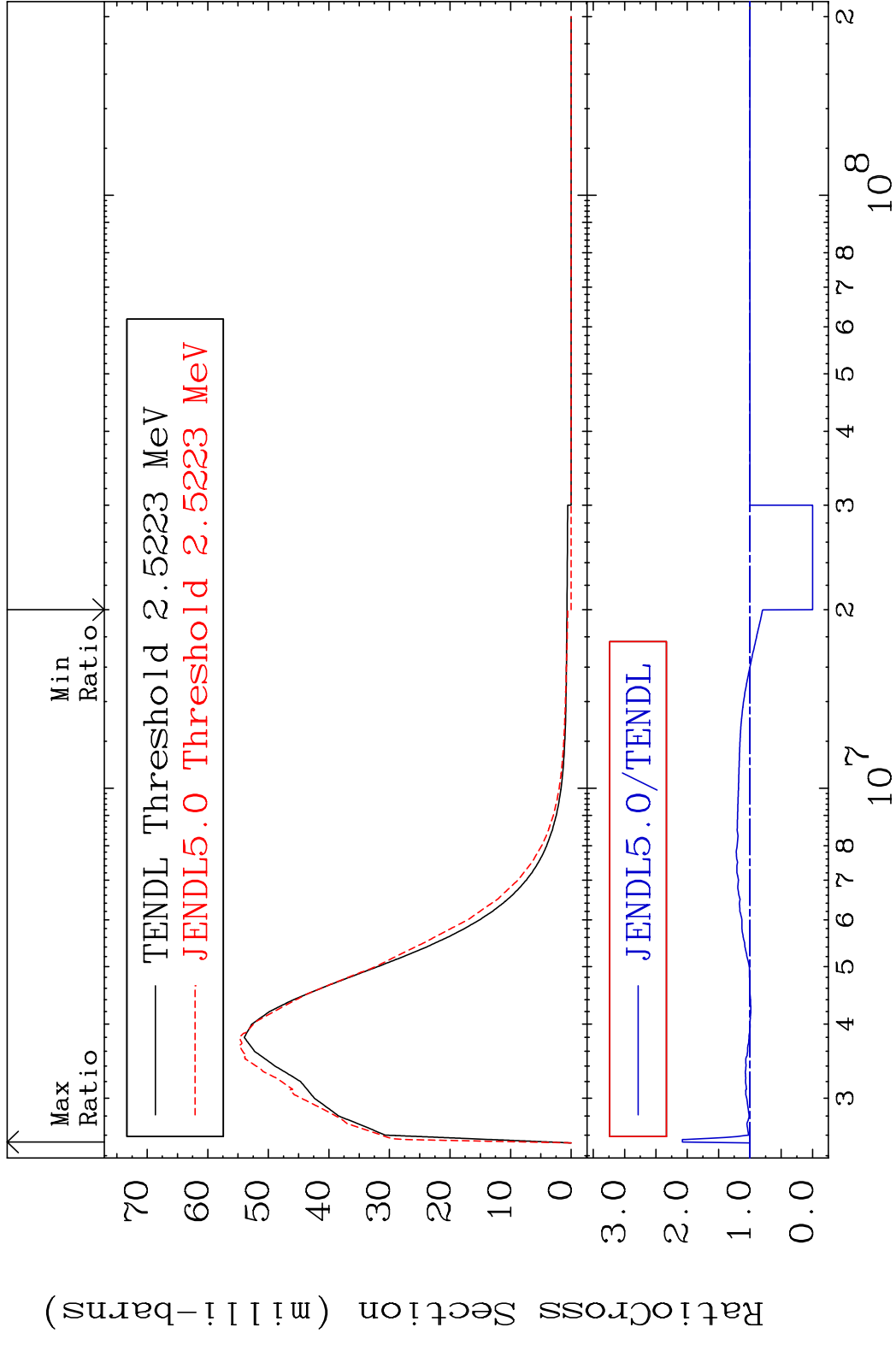


15 Incident Energy (eV) 22-Ti-49

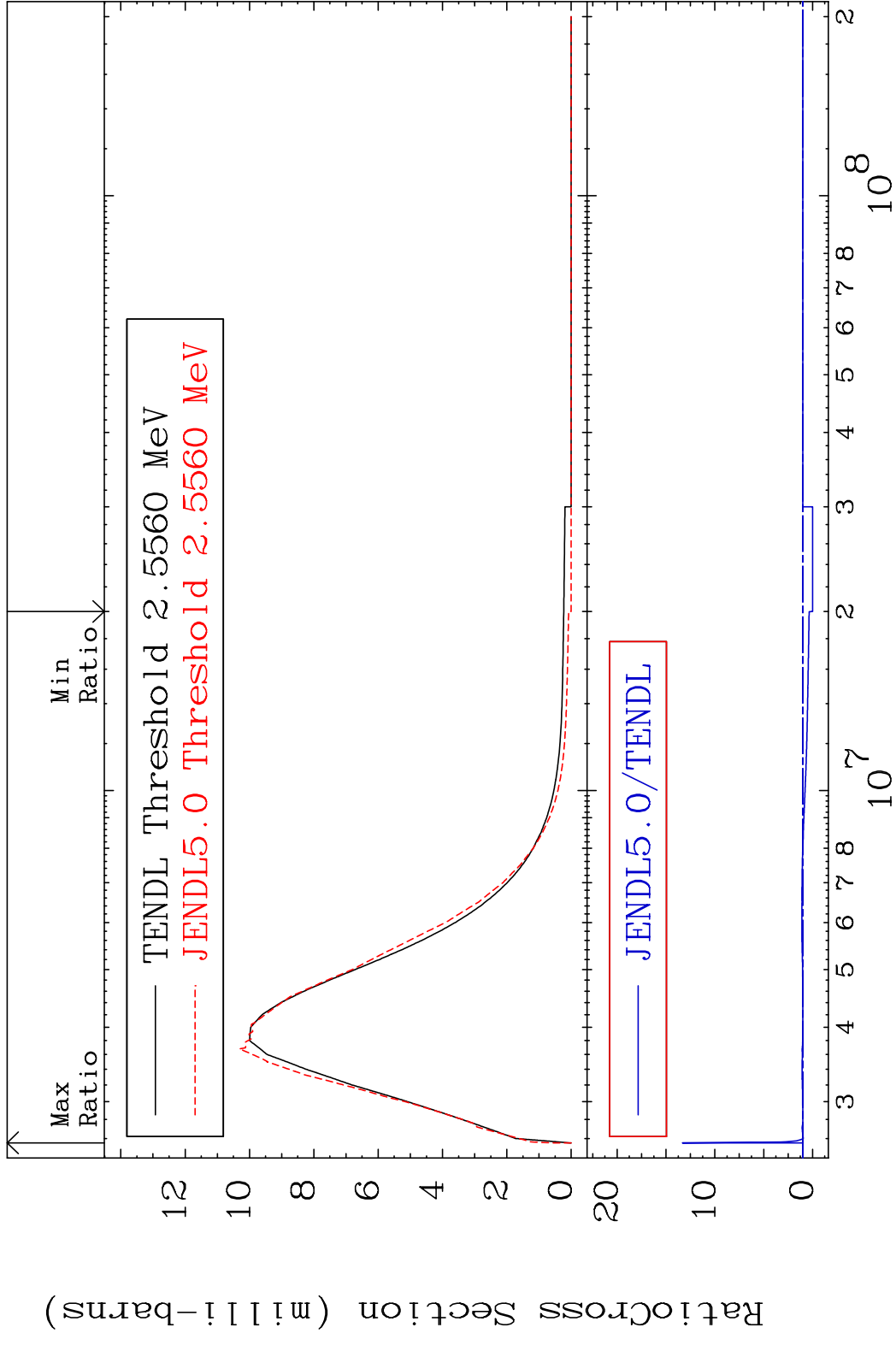
MAT 2234 MT= 58 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 2902. %



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

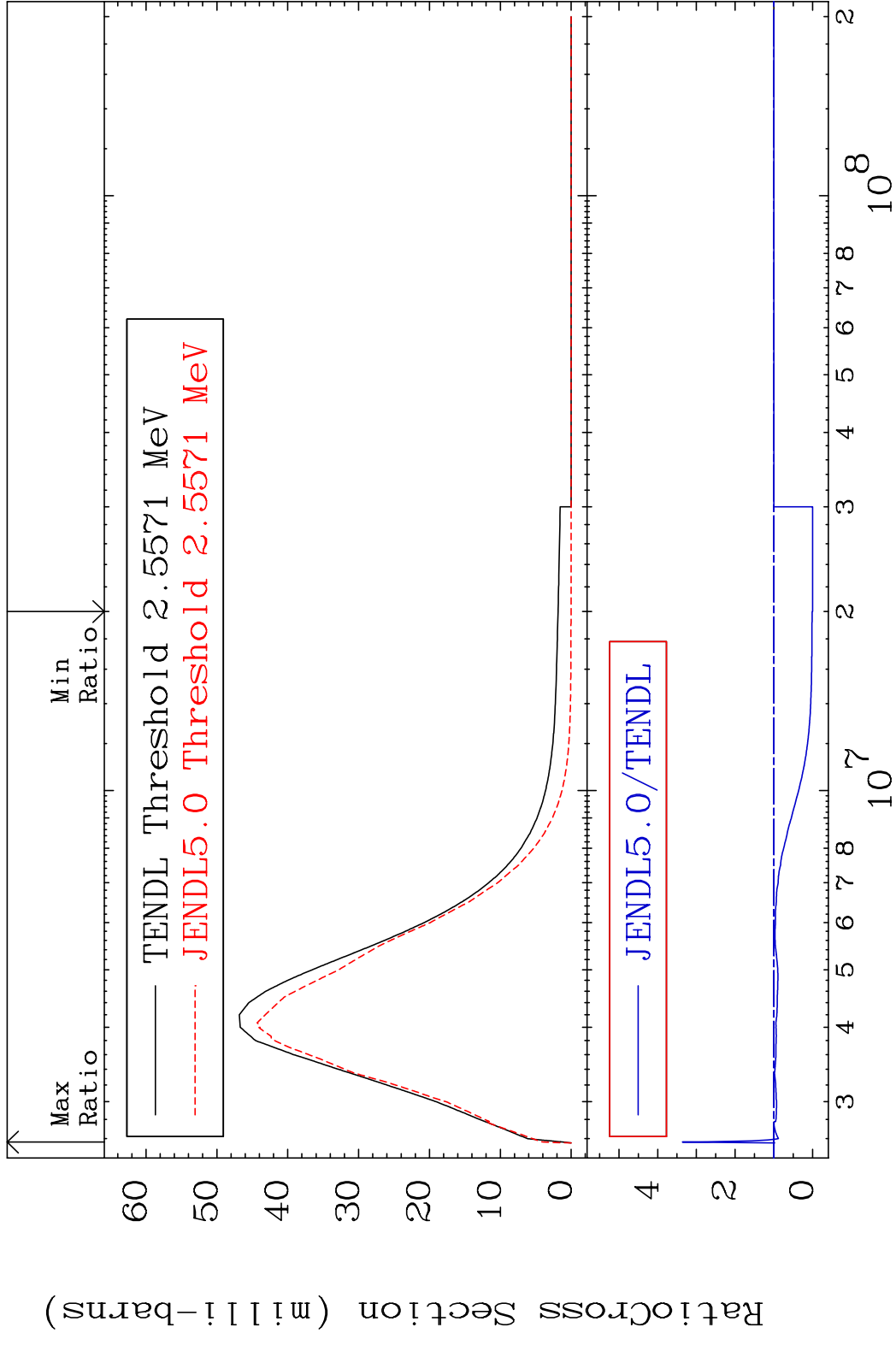


MAT 2234 MT= 60 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 1233. %

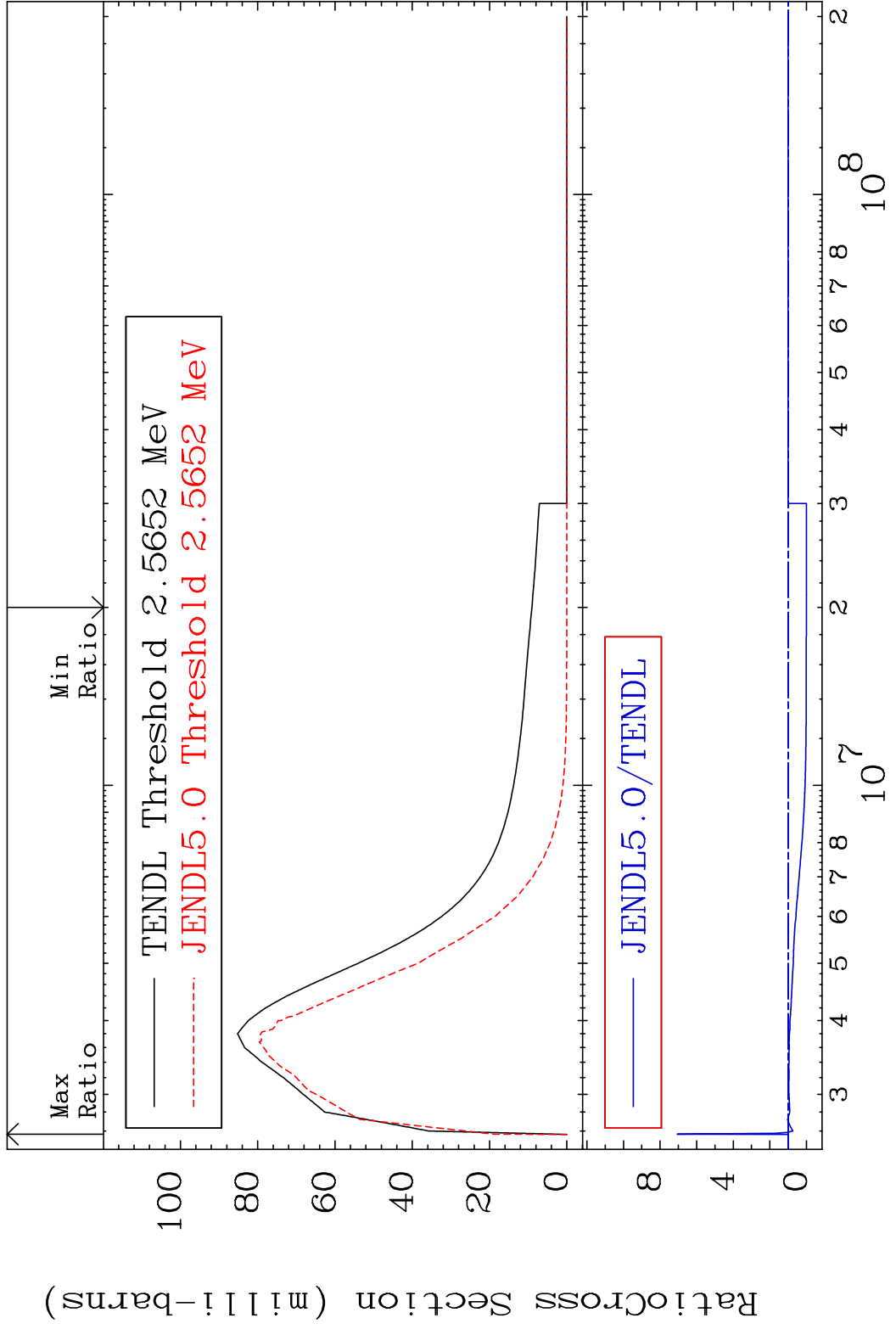


18 22-Ti-49

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

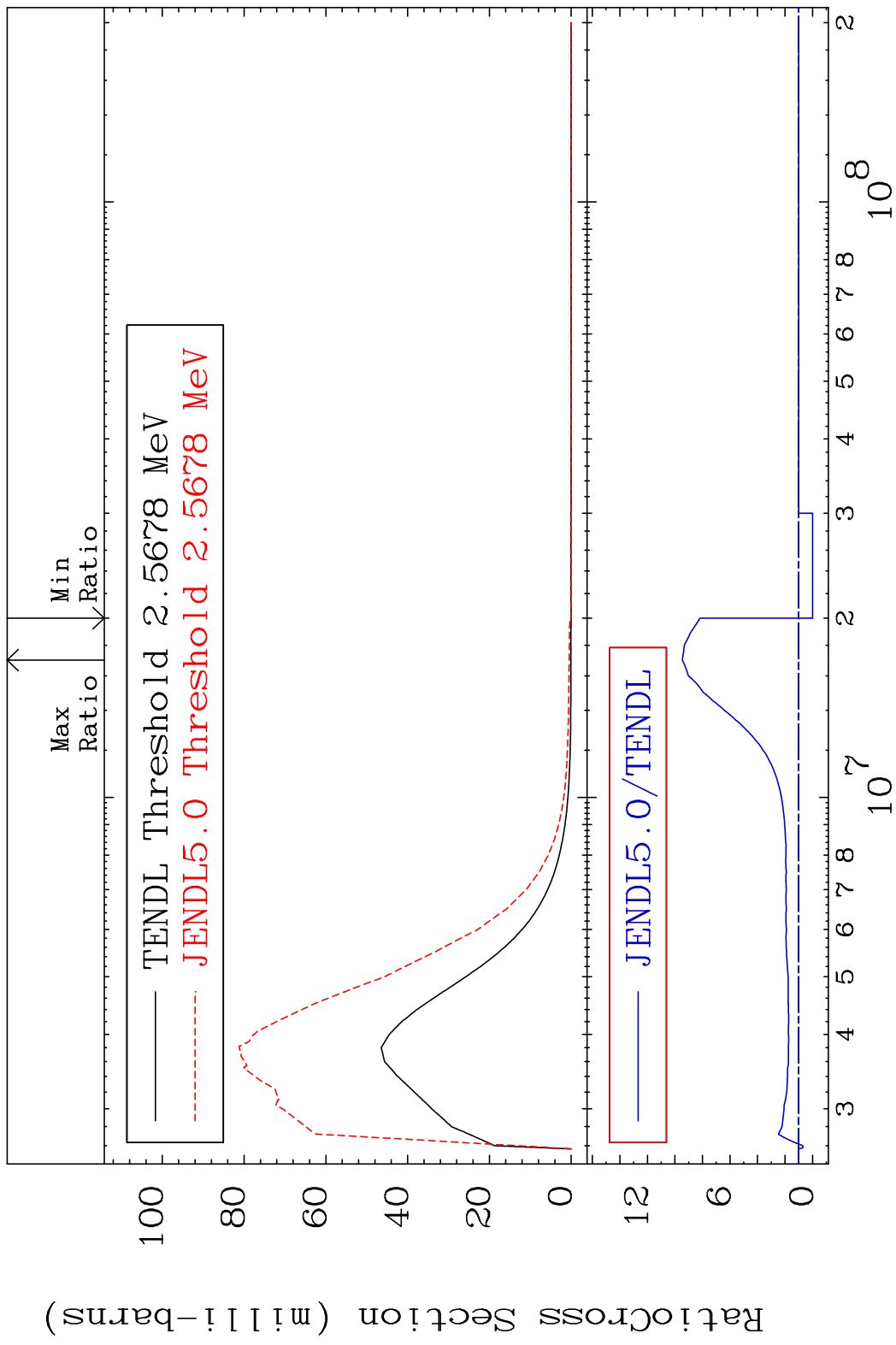


MAT 2234 MT= 62 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 606.4 %



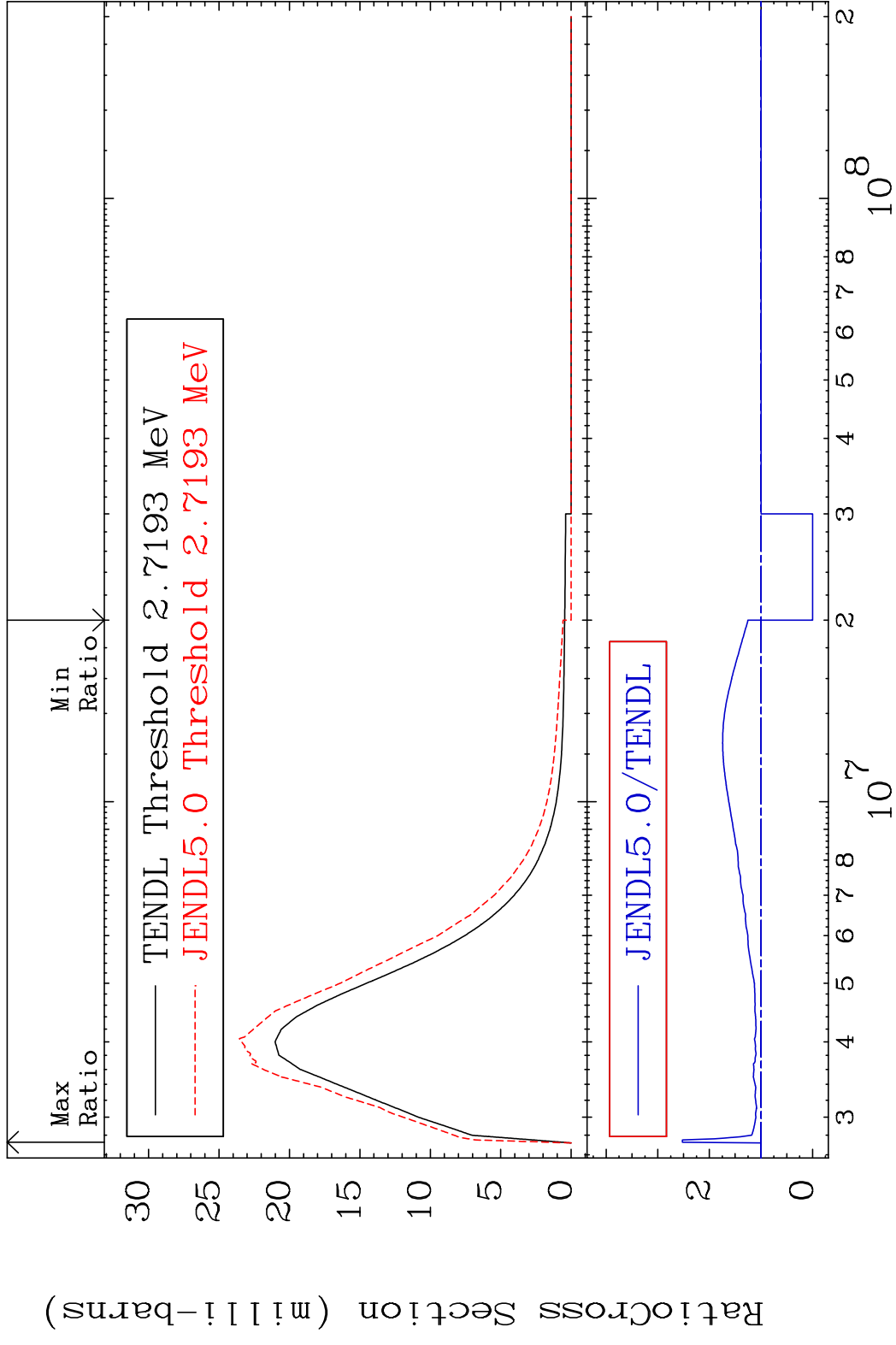
20 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 63 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 846.0 %



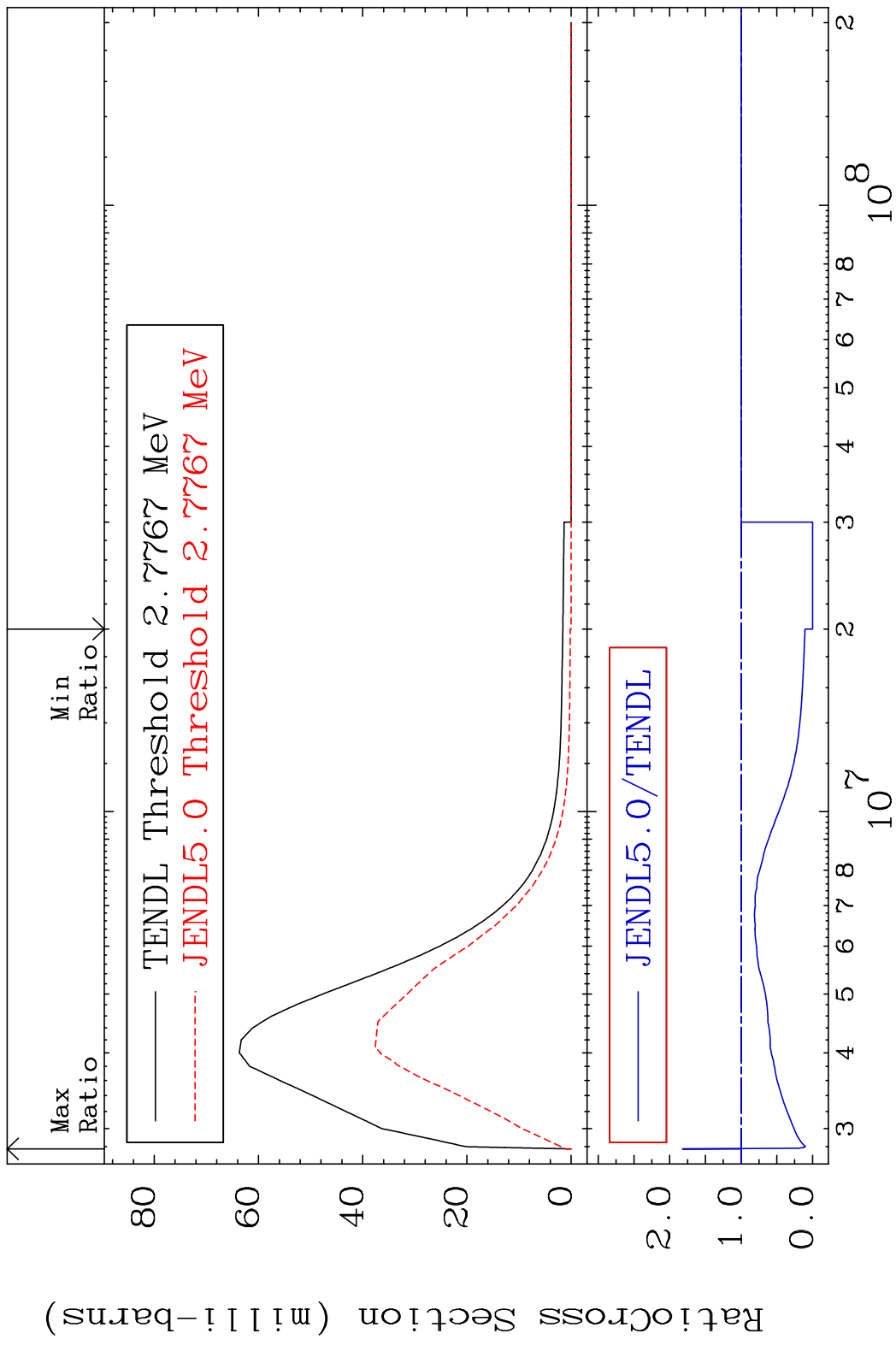
21 Incident Energy (eV) 22-Ti-49

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

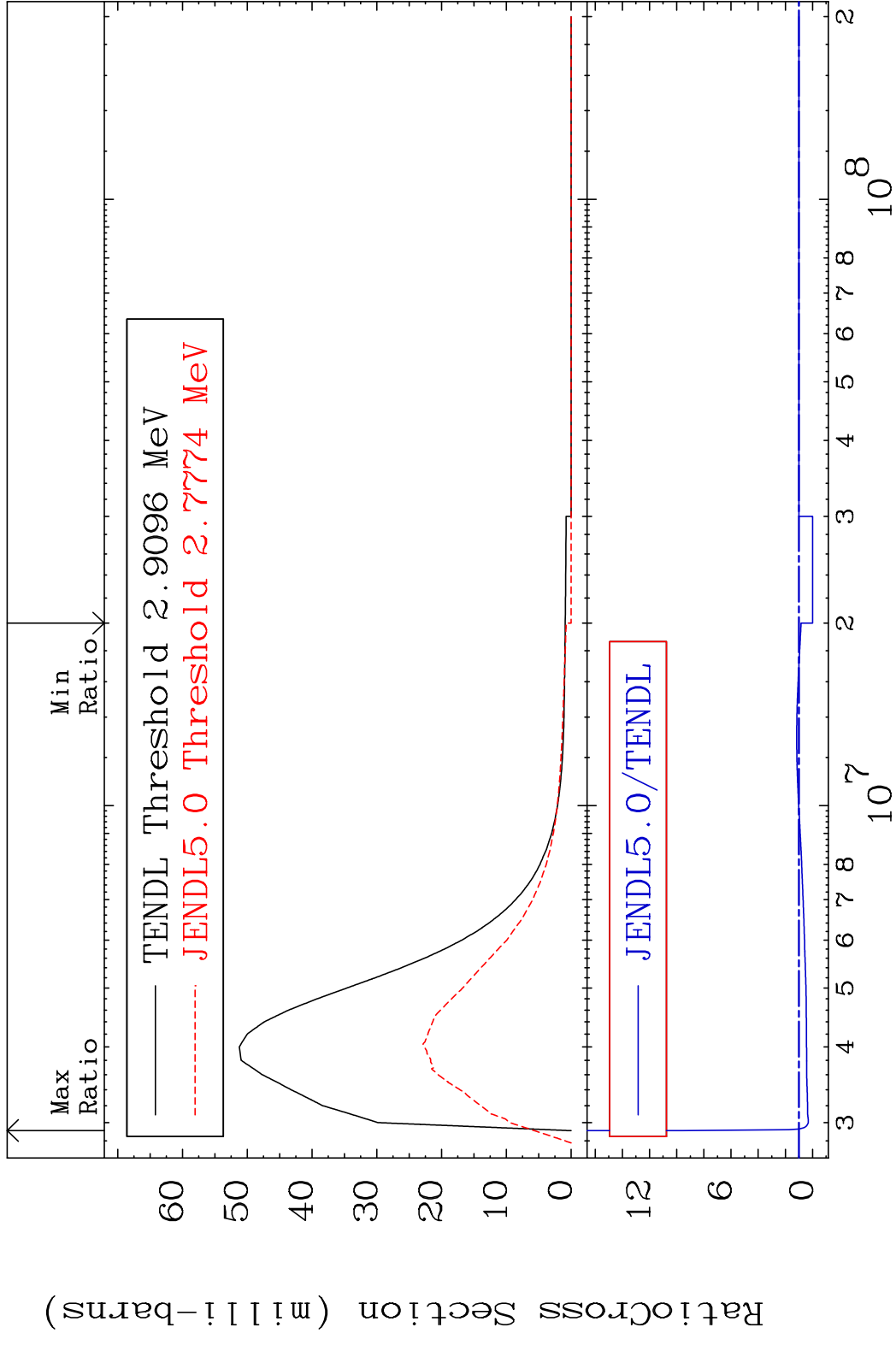


22 22-Ti-49

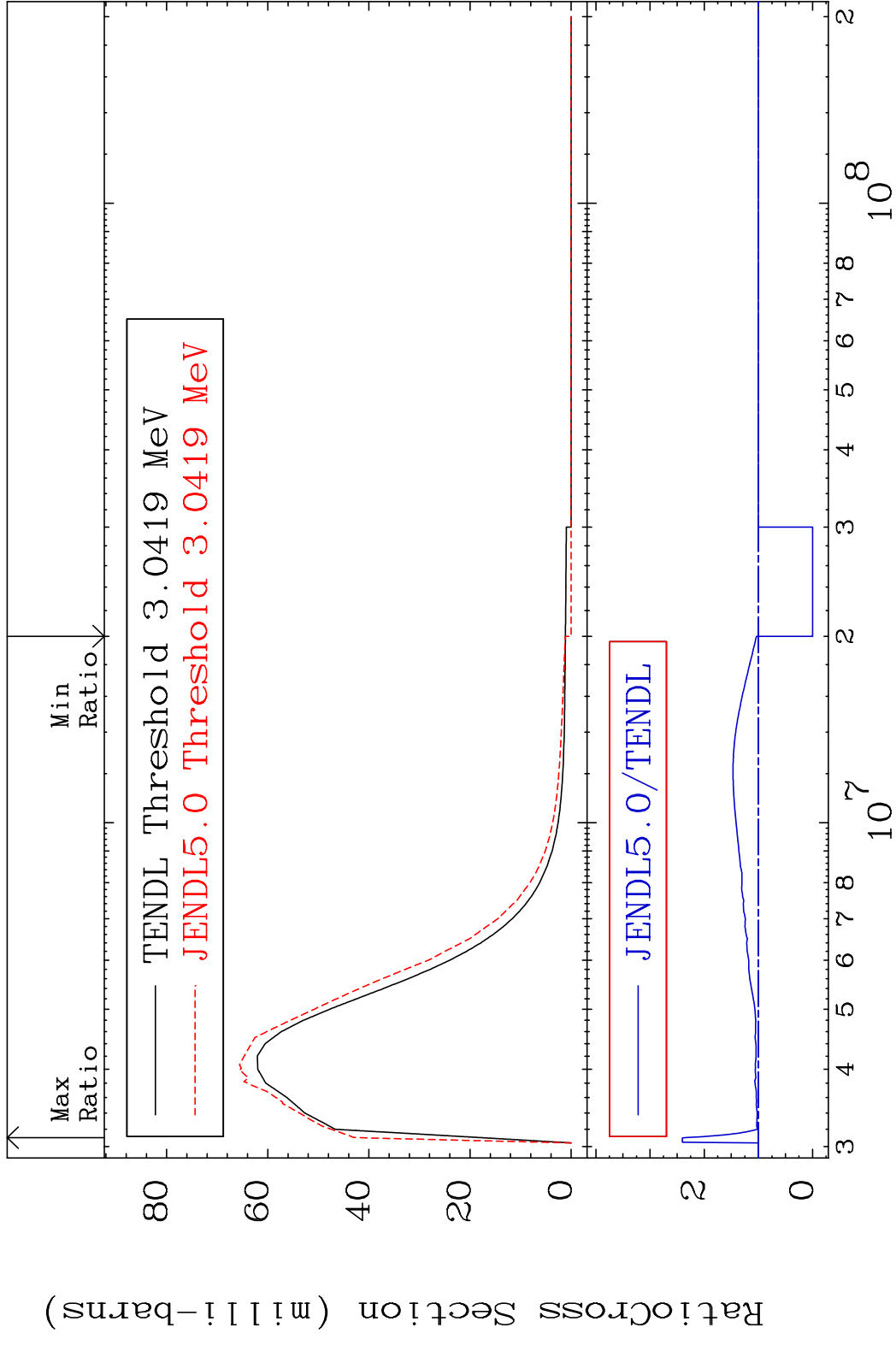
MAT 2234 MT= 65 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 82.26 %



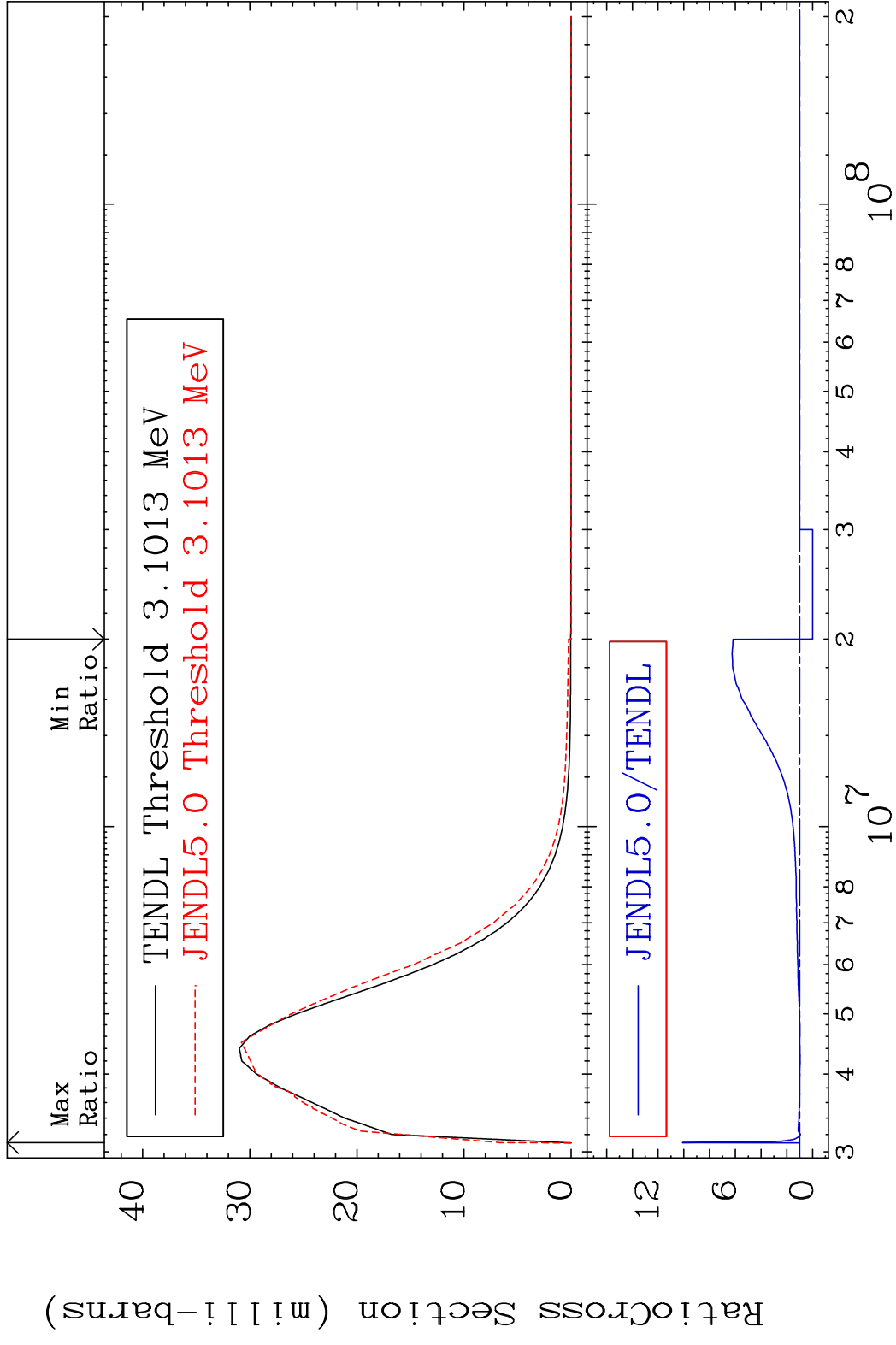
MAT 2234 MT= 66 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 858.4 %



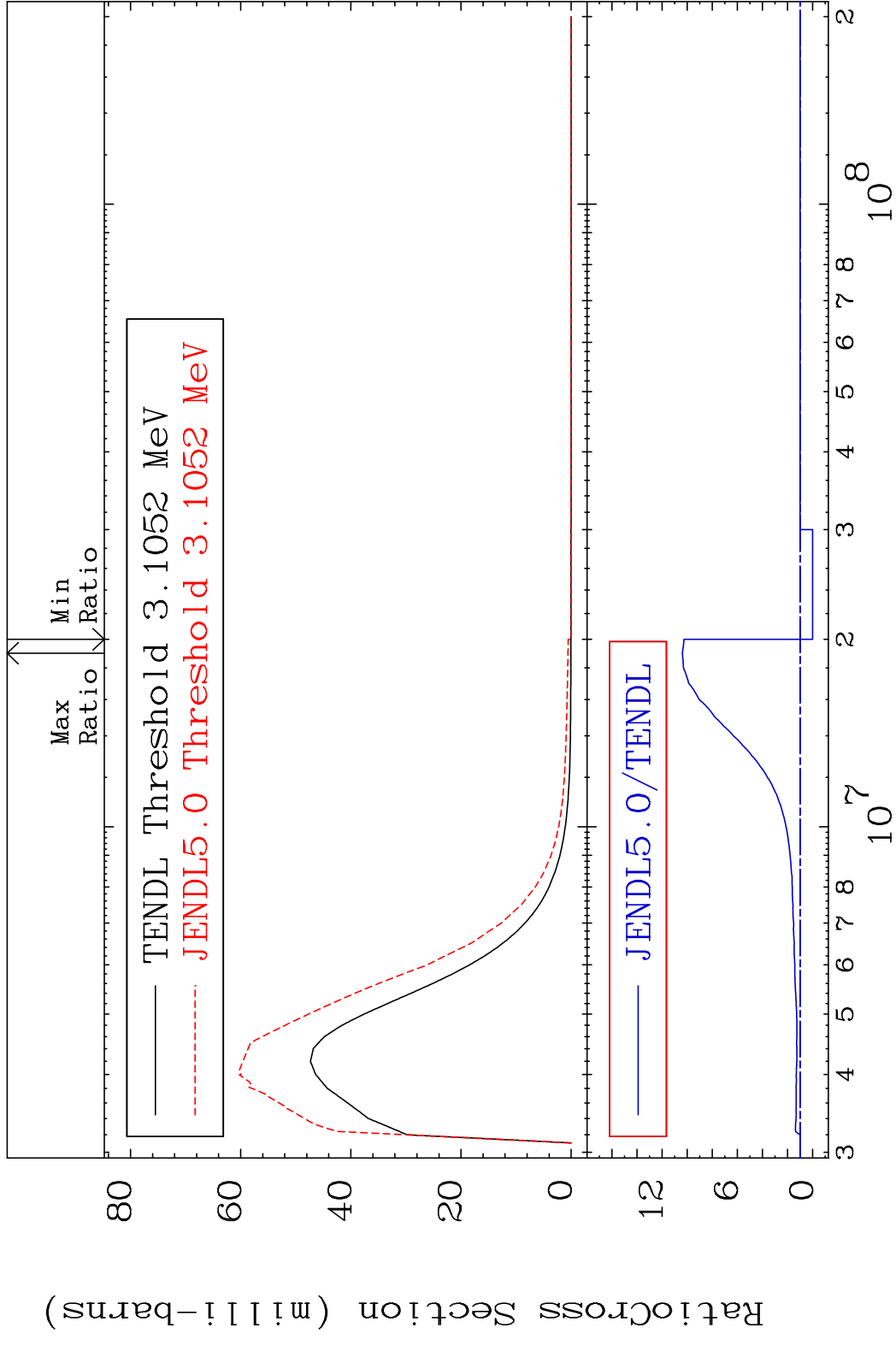
MAT 2234 MT= 67 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 140.3 %



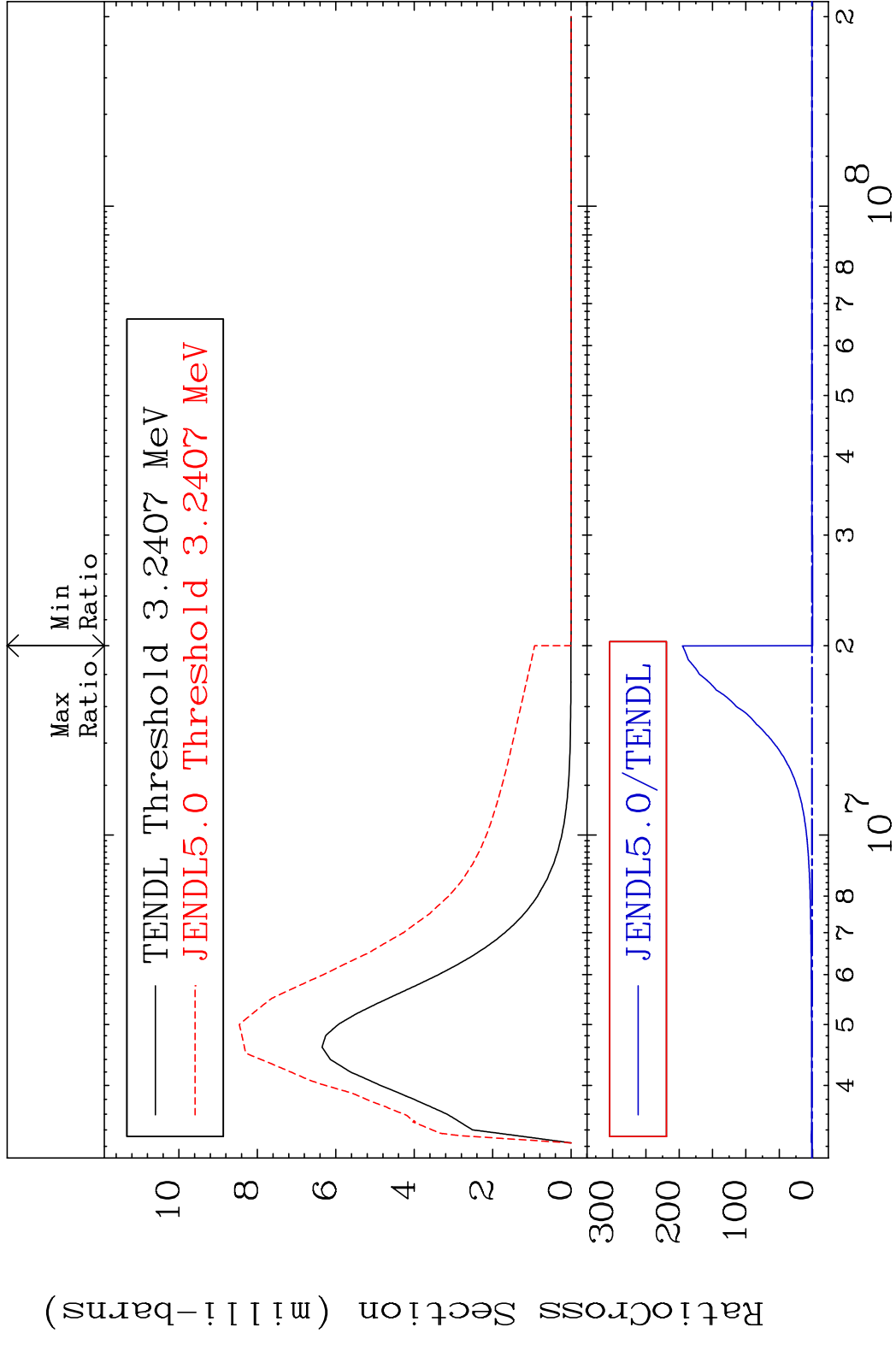
MAT 2234 MT= 68 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 911.6 %



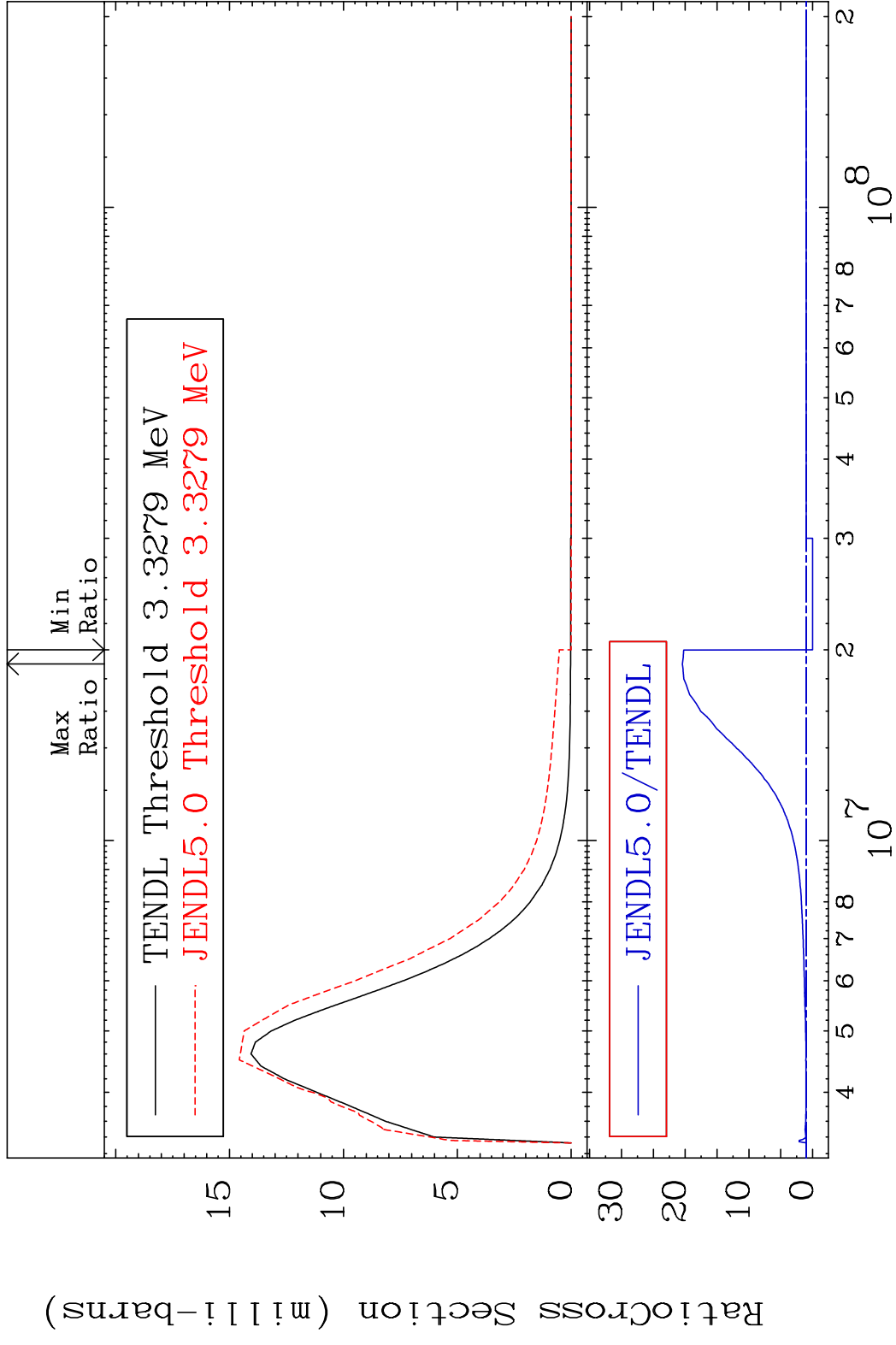
MAT 2234 MT= 69 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 938.3 %



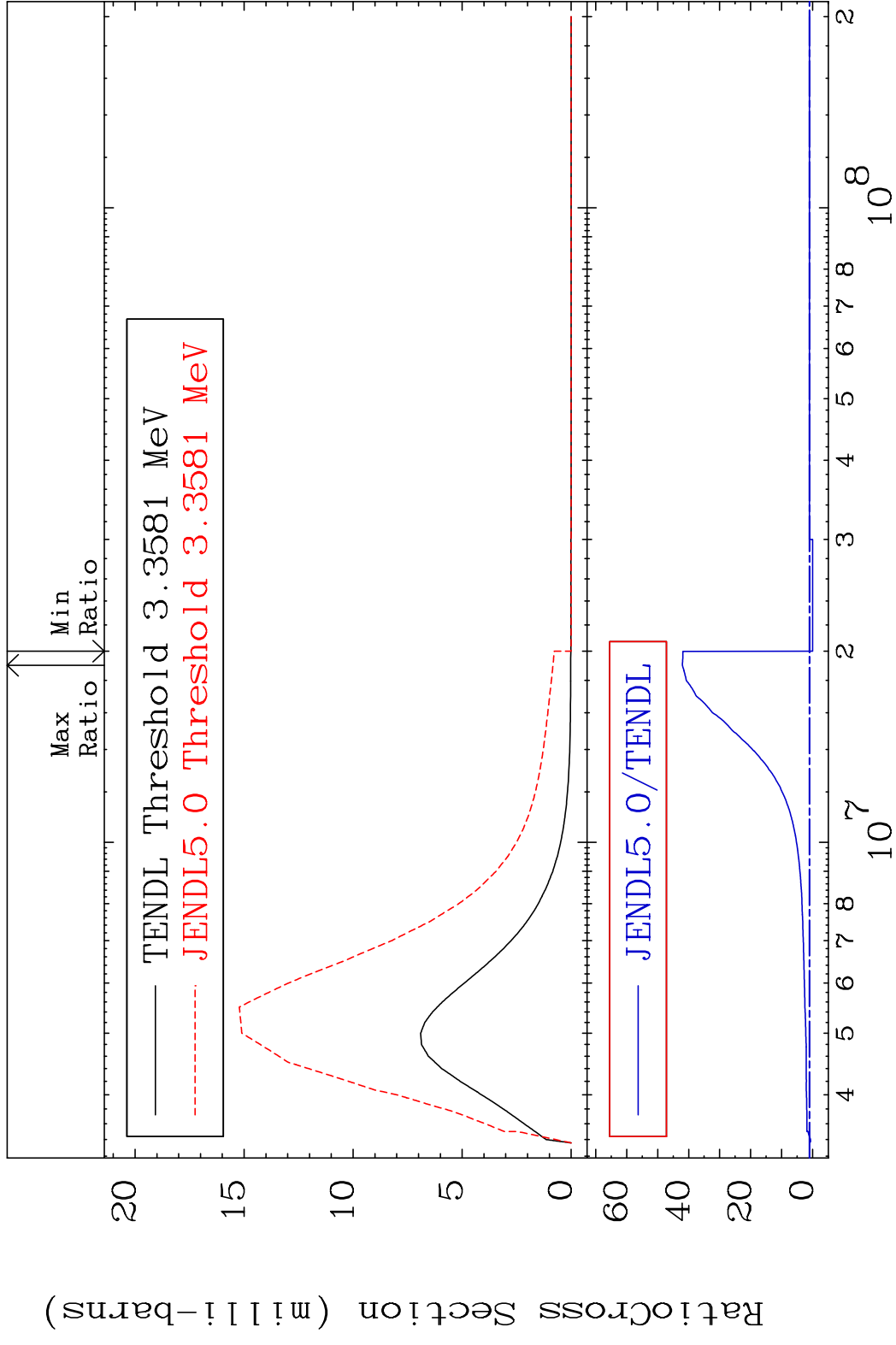
MAT 2234 MT= 70 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 9999. %



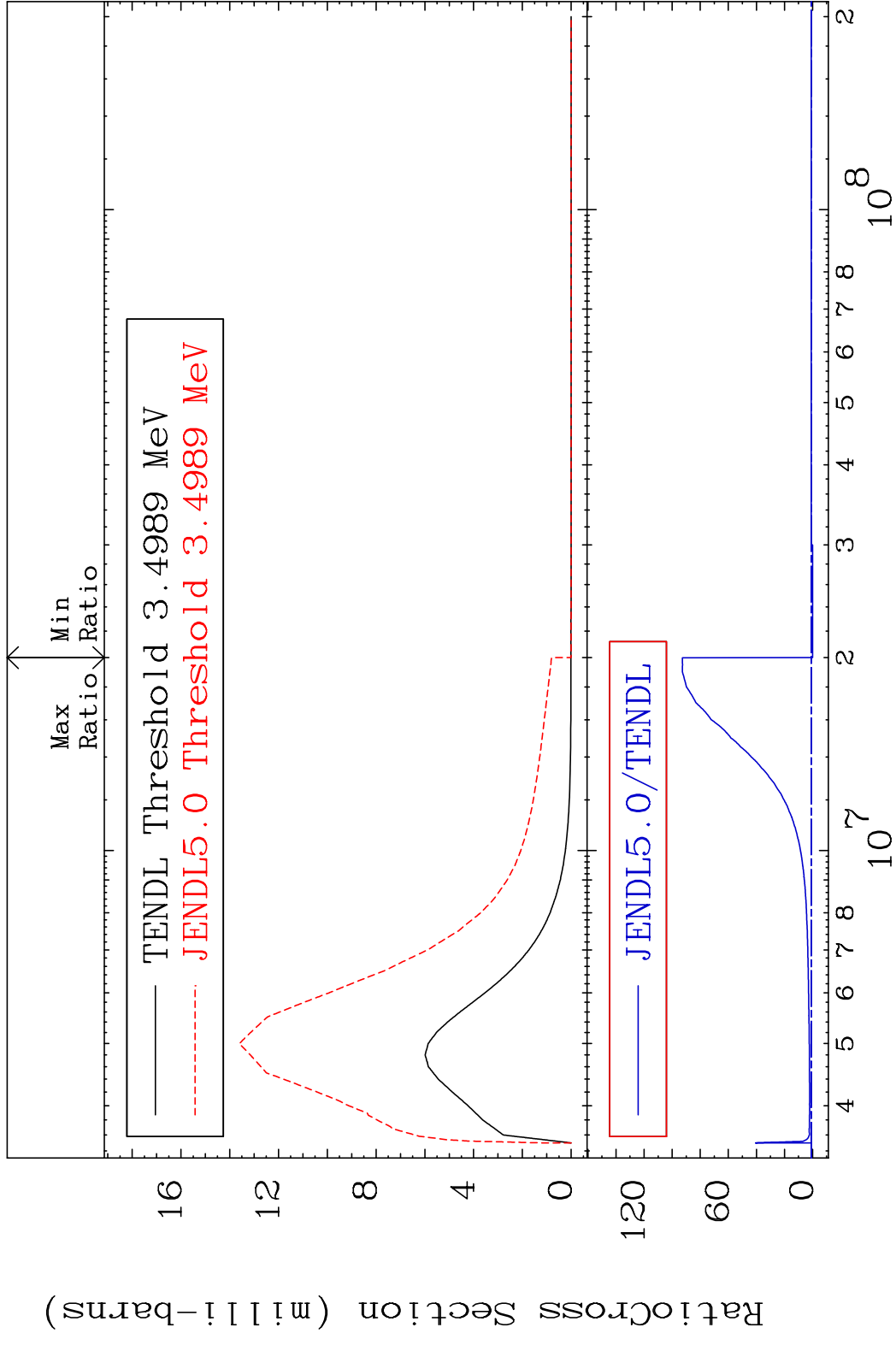
MAT 2234 MT= 71 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 1945. %



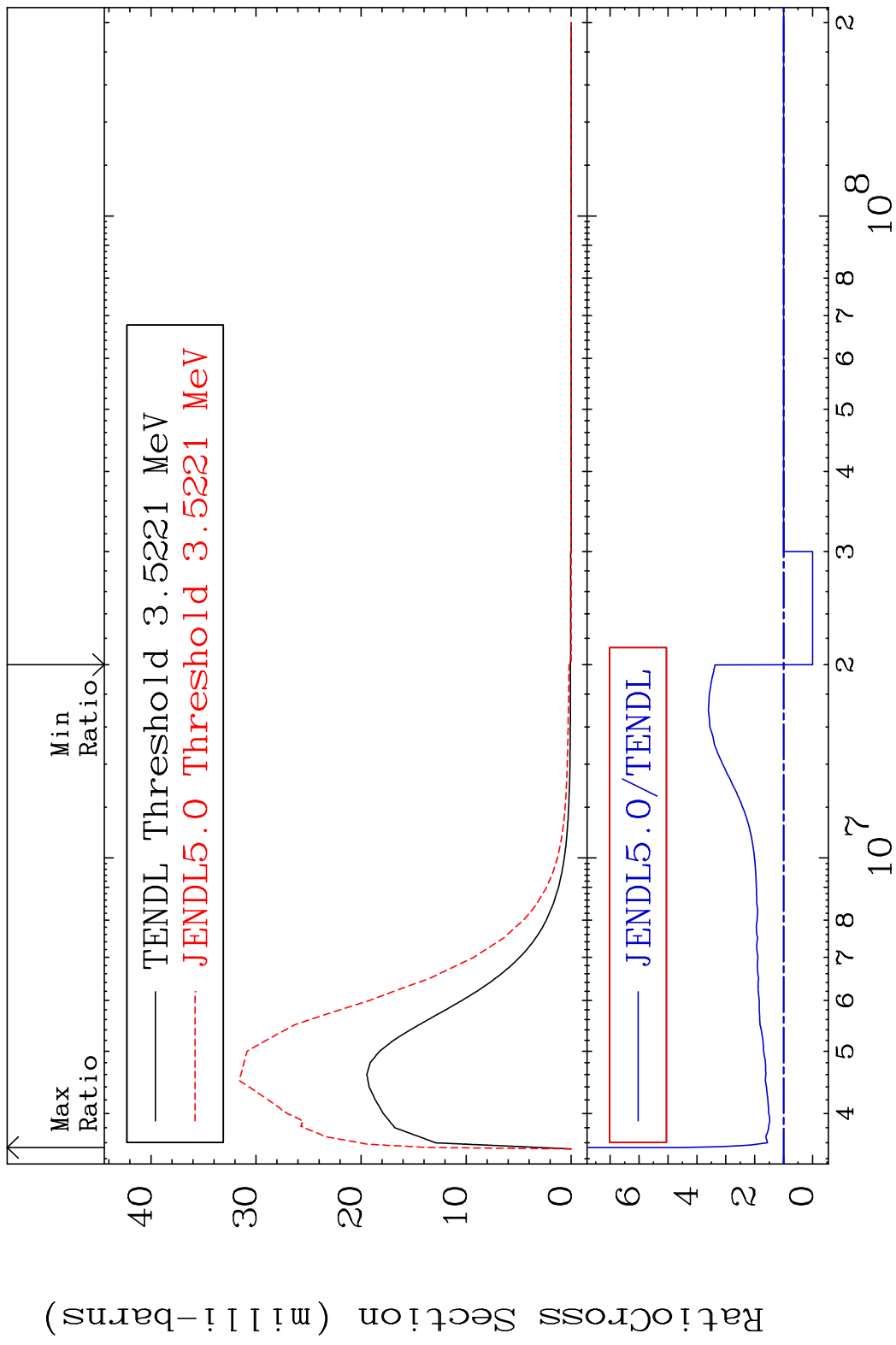
MAT 2234 MT= 72 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 4104. %



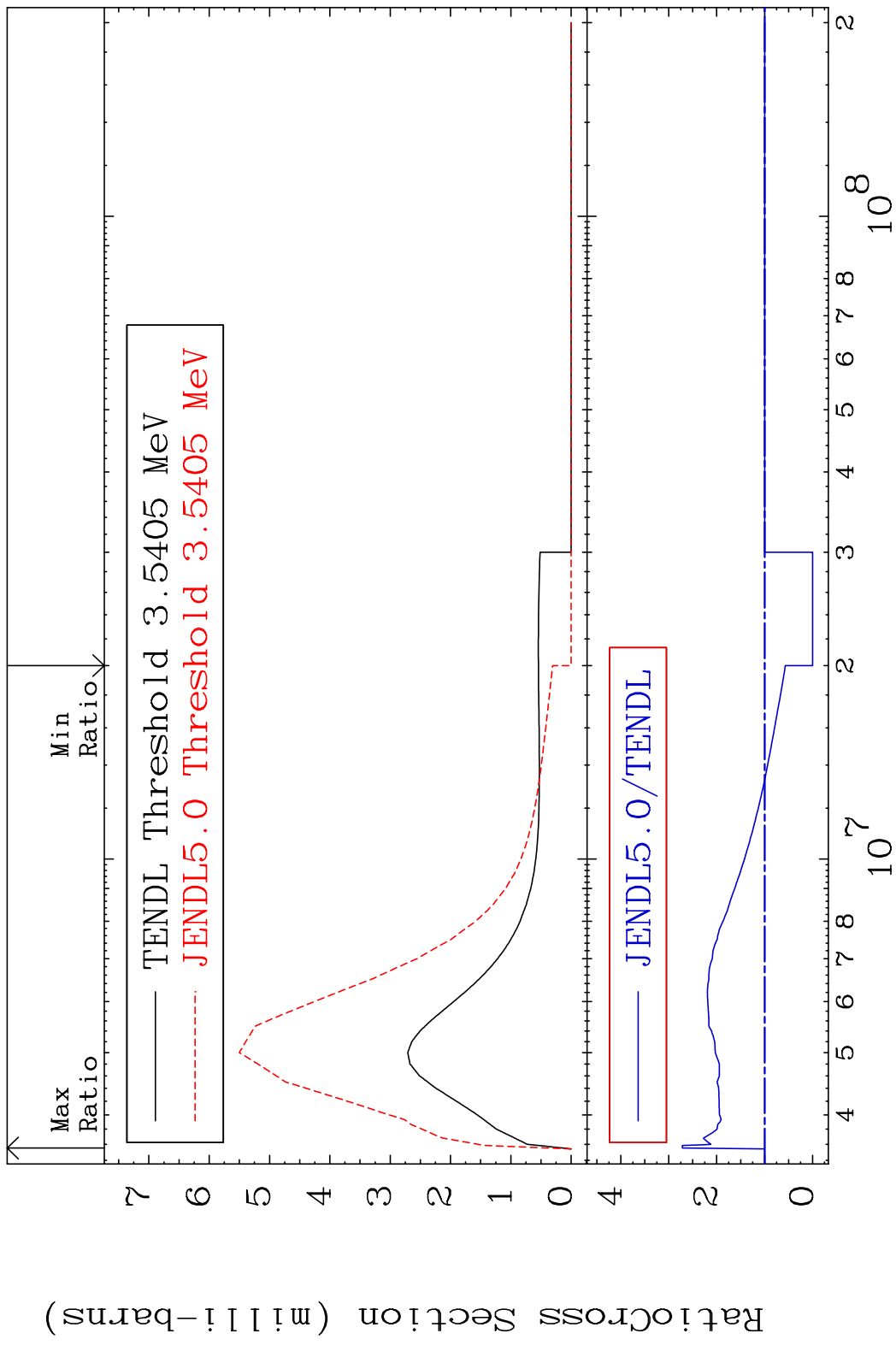
MAT 2234 MT= 73 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 9174. %



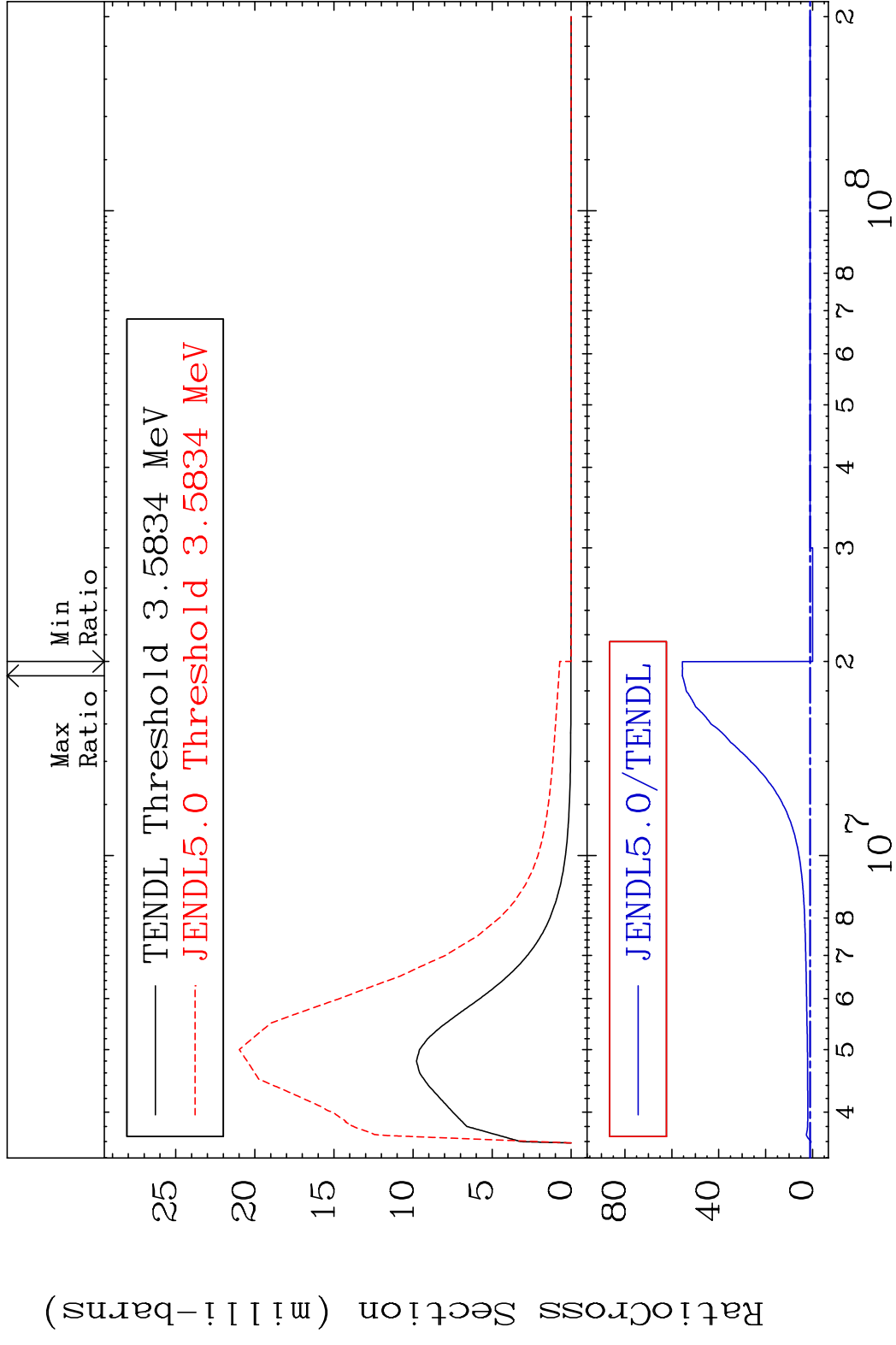
MAT 2234 MT= 74 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 350.3 %



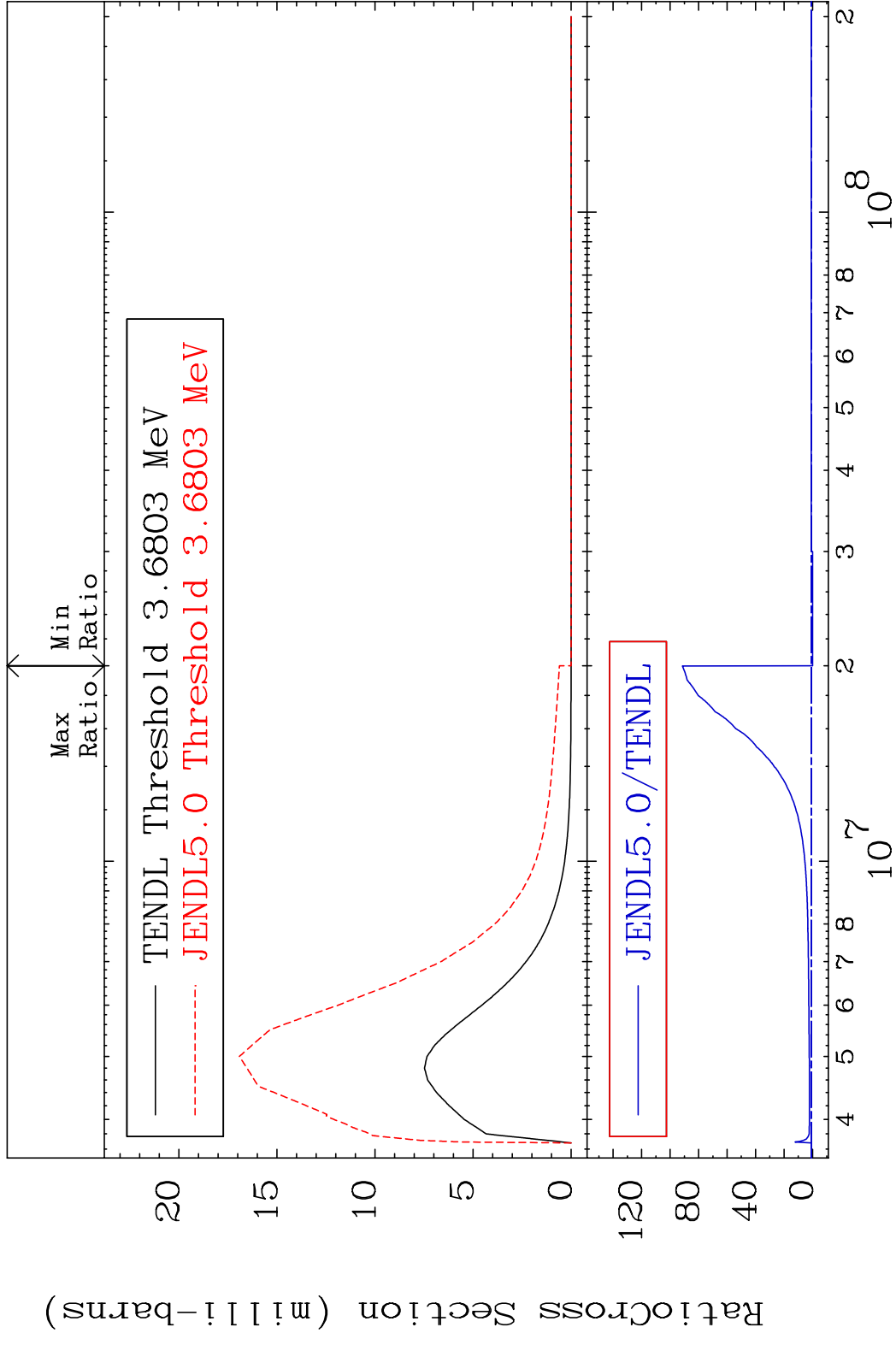
MAT 2234 MT= 75 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 171.6 %



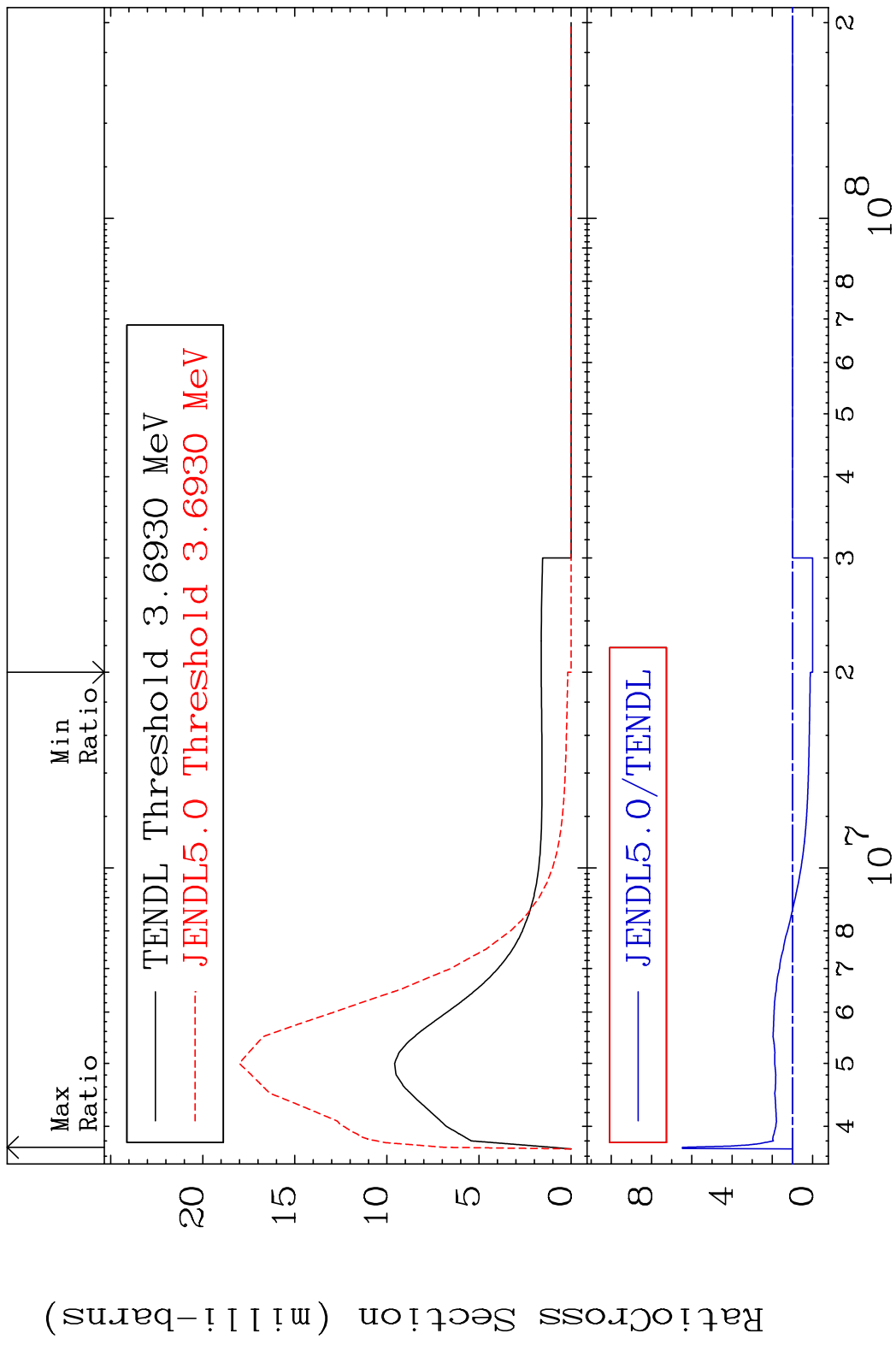
MAT 2234 MT= 76 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 5451. %



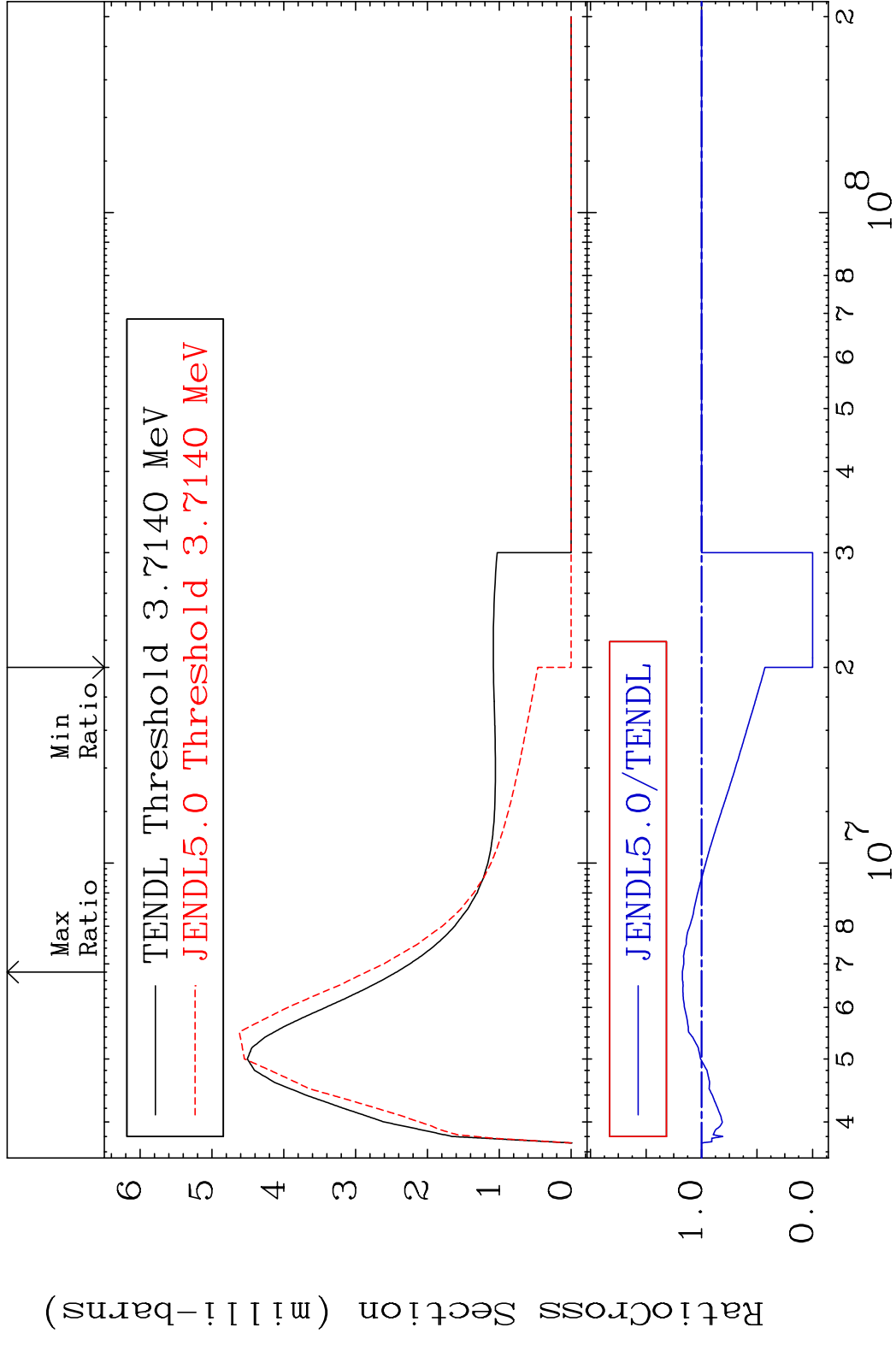
MAT 2234 MT= 77 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 9040. %



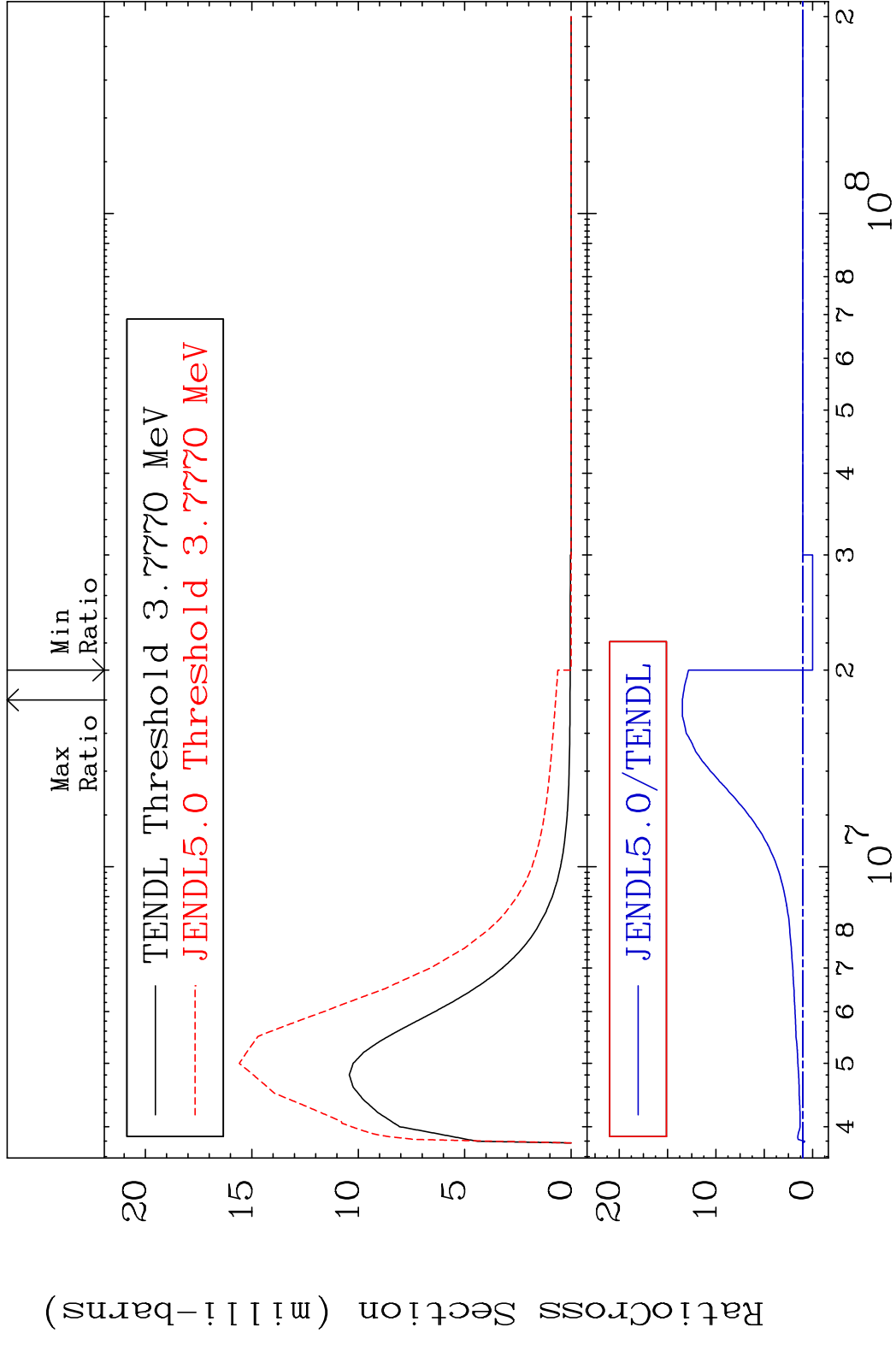
MAT 2234 MT= 78 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 547.0 %



MAT 2234 MT= 79 (n,n') Level 22-Ti-49
 Cross Section -100.0 To 17.27 %

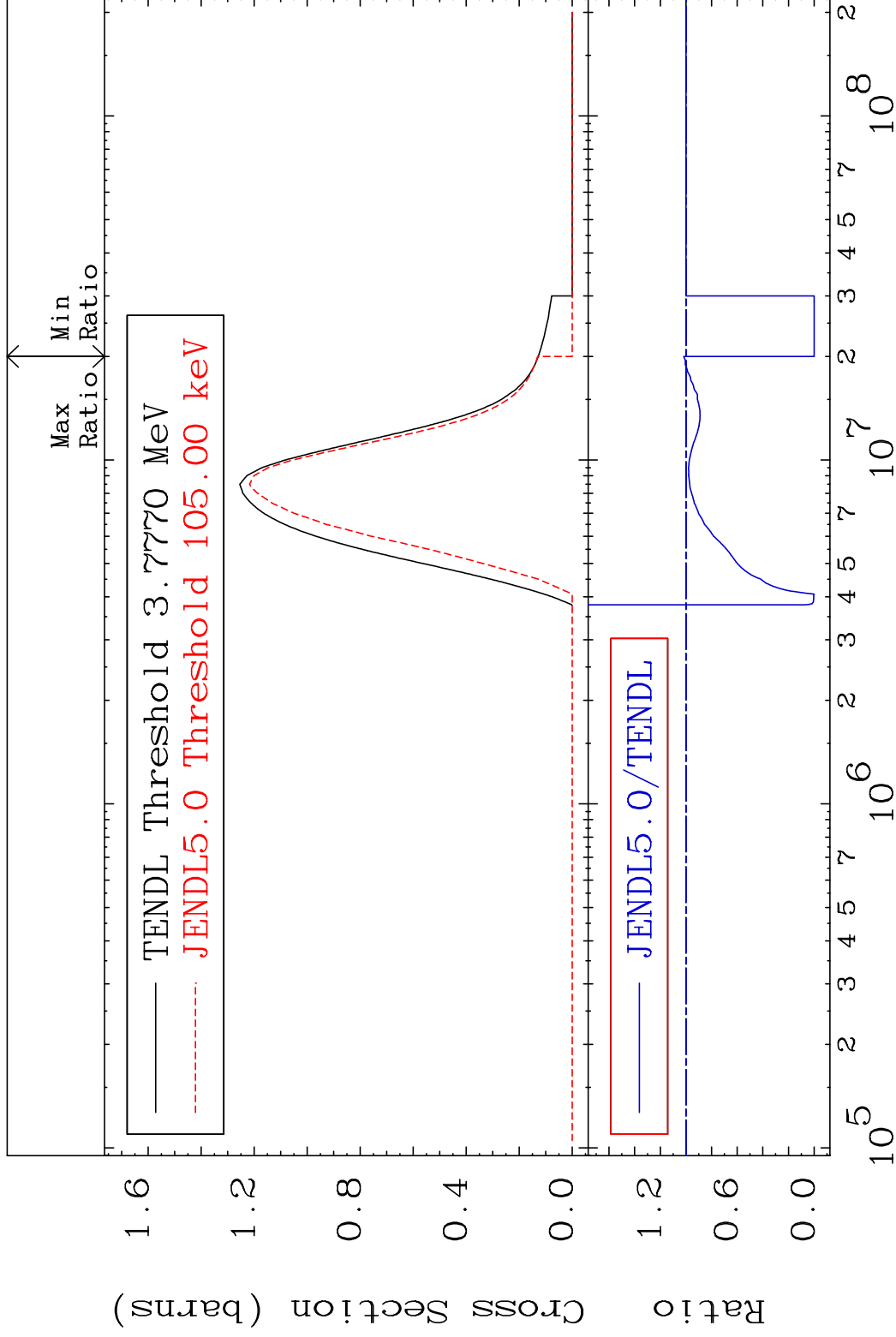


MAT 2234 MT= 80 (n, n') Level 22-Ti-49
 Cross Section -100.0 To 1247. %



MAT 2234

(n,n') Continuum $^{22}\text{Ti-49}$
Cross Section -100.0 To 1.775 %



39

Incident Energy (eV)

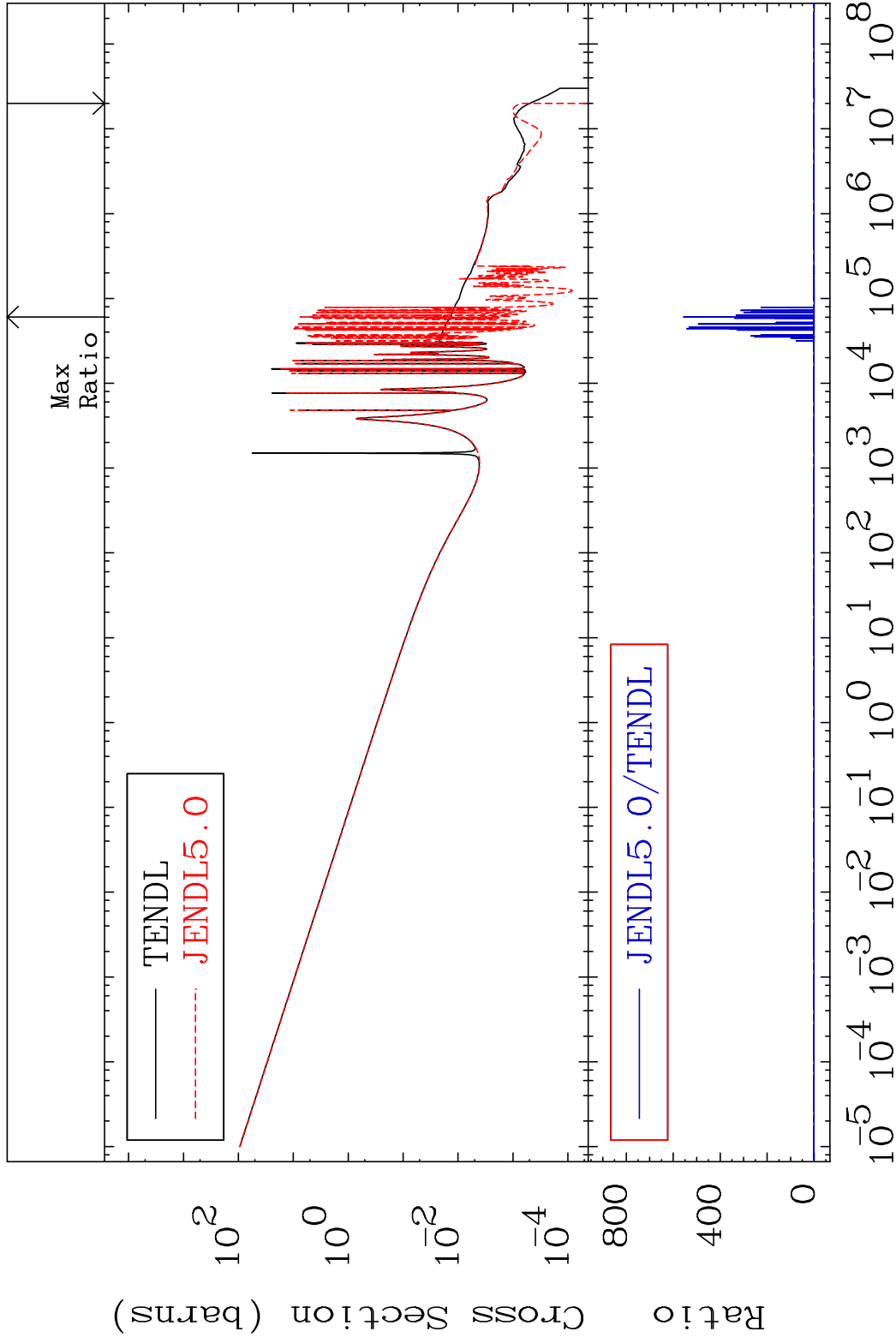
$^{22}\text{Ti-49}$

MAT 2234

(n, γ)

22-Ti-49

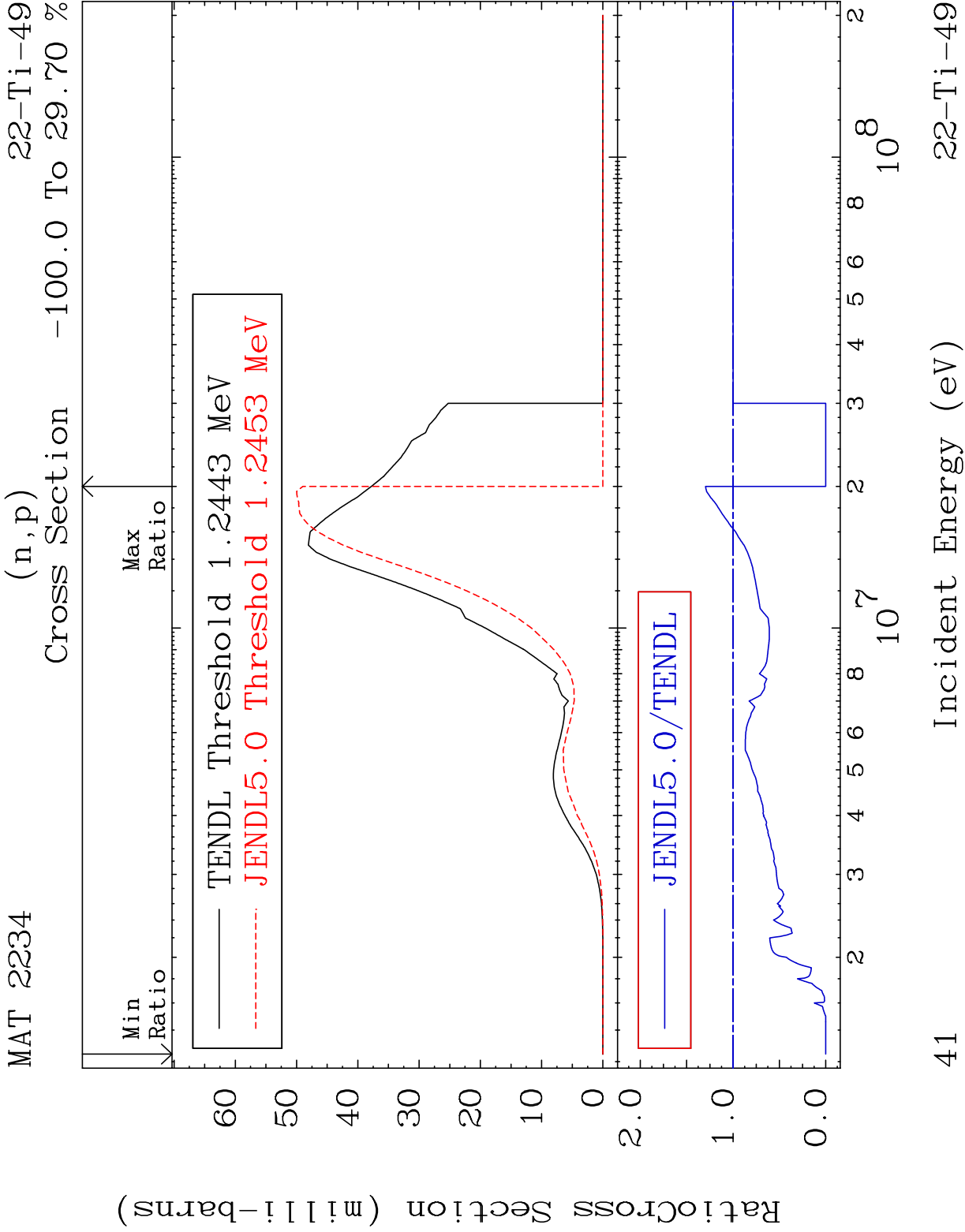
Cross Section -100.0 To 9999. %



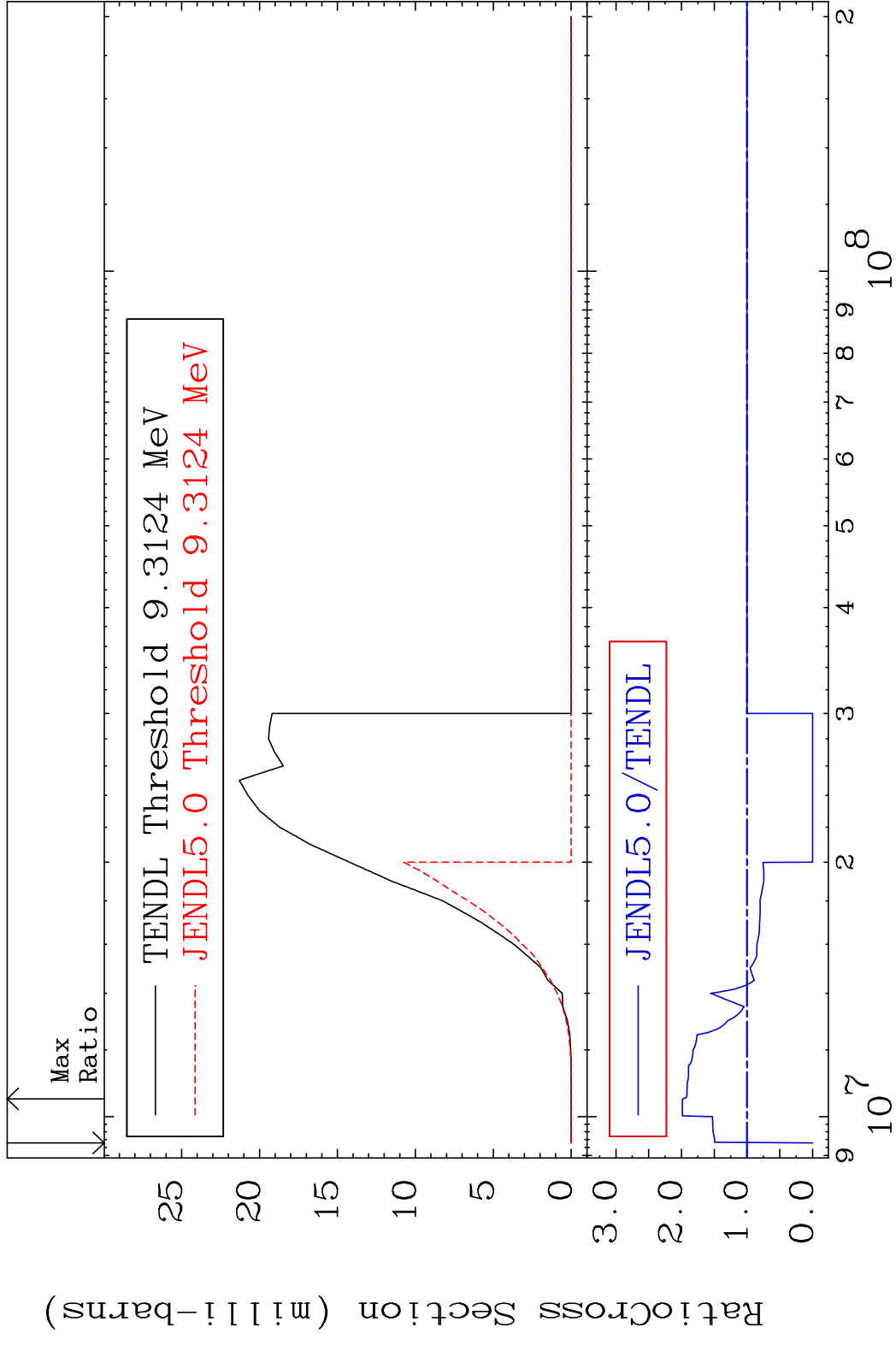
40

Incident Energy (eV)

22-Ti-49



MAT 2234 (n,d) 22-Ti-49
 Cross Section -100.0 To 98.66 %



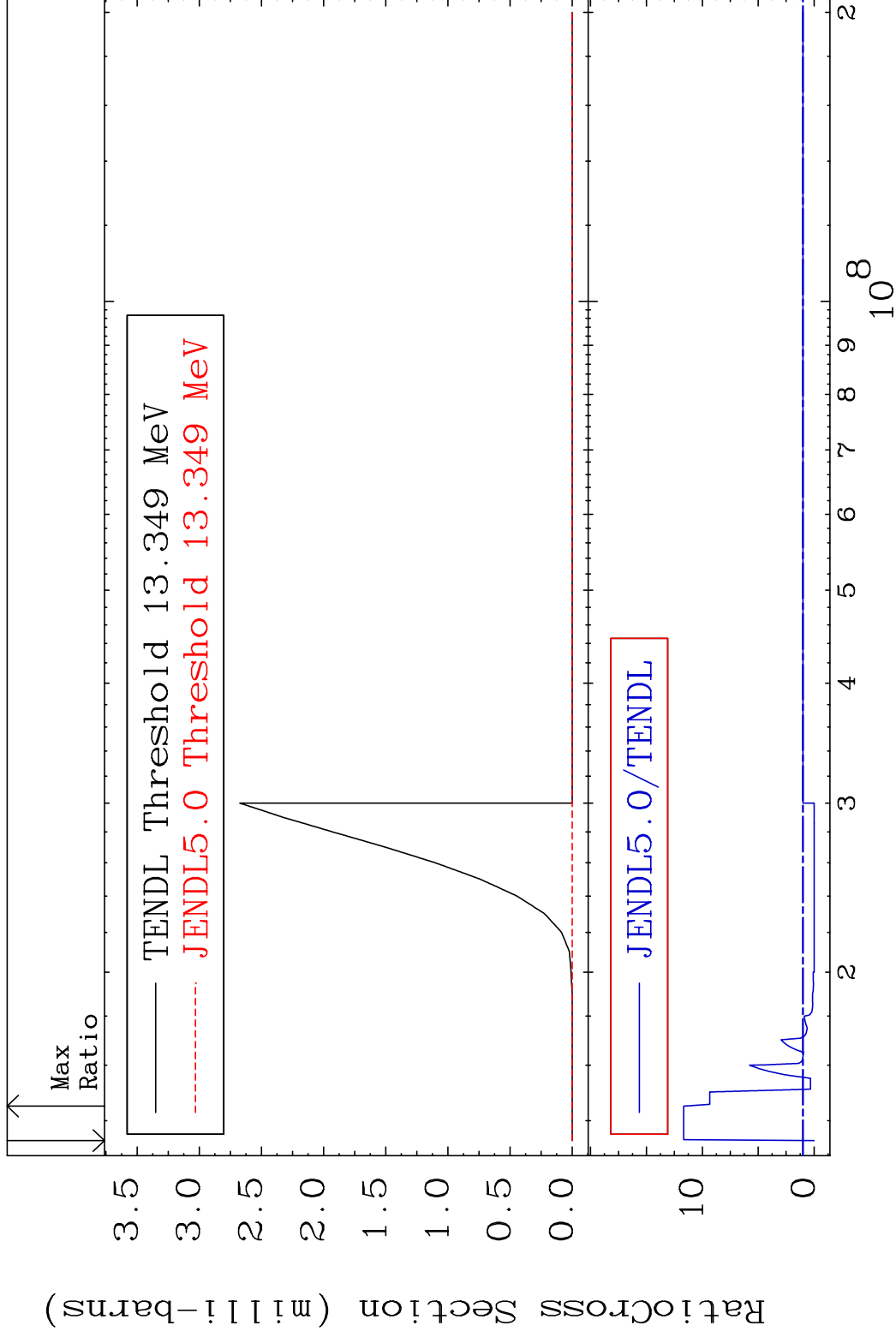
42 22-Ti-49

MAT 2234

(n, He-3)

²²Ti-49

Cross Section -100.0 To 1067. %

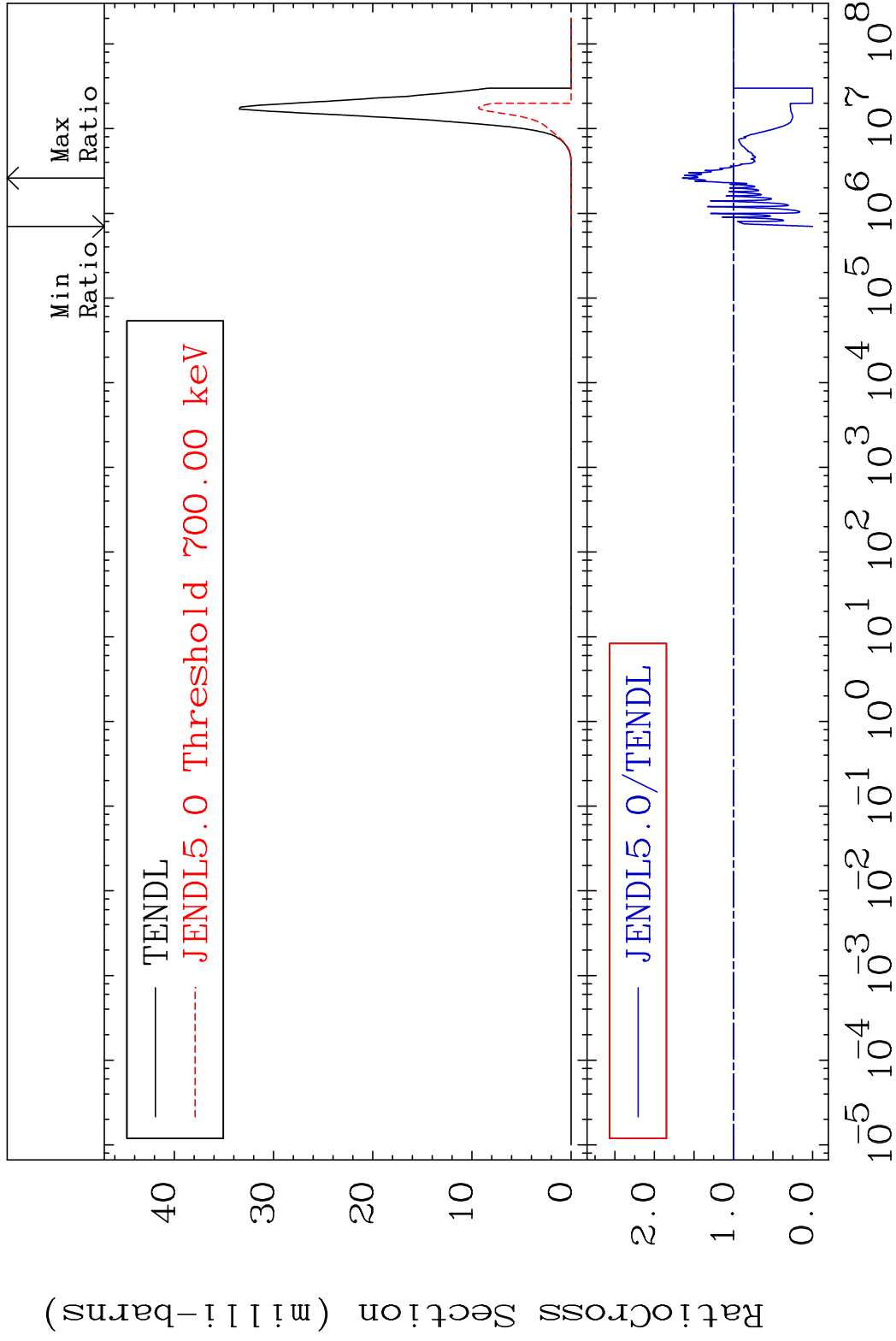


MAT 2234

(n, α)

22-Ti-49

Cross Section -100.0 To 64.68 %



45

Incident Energy (eV)

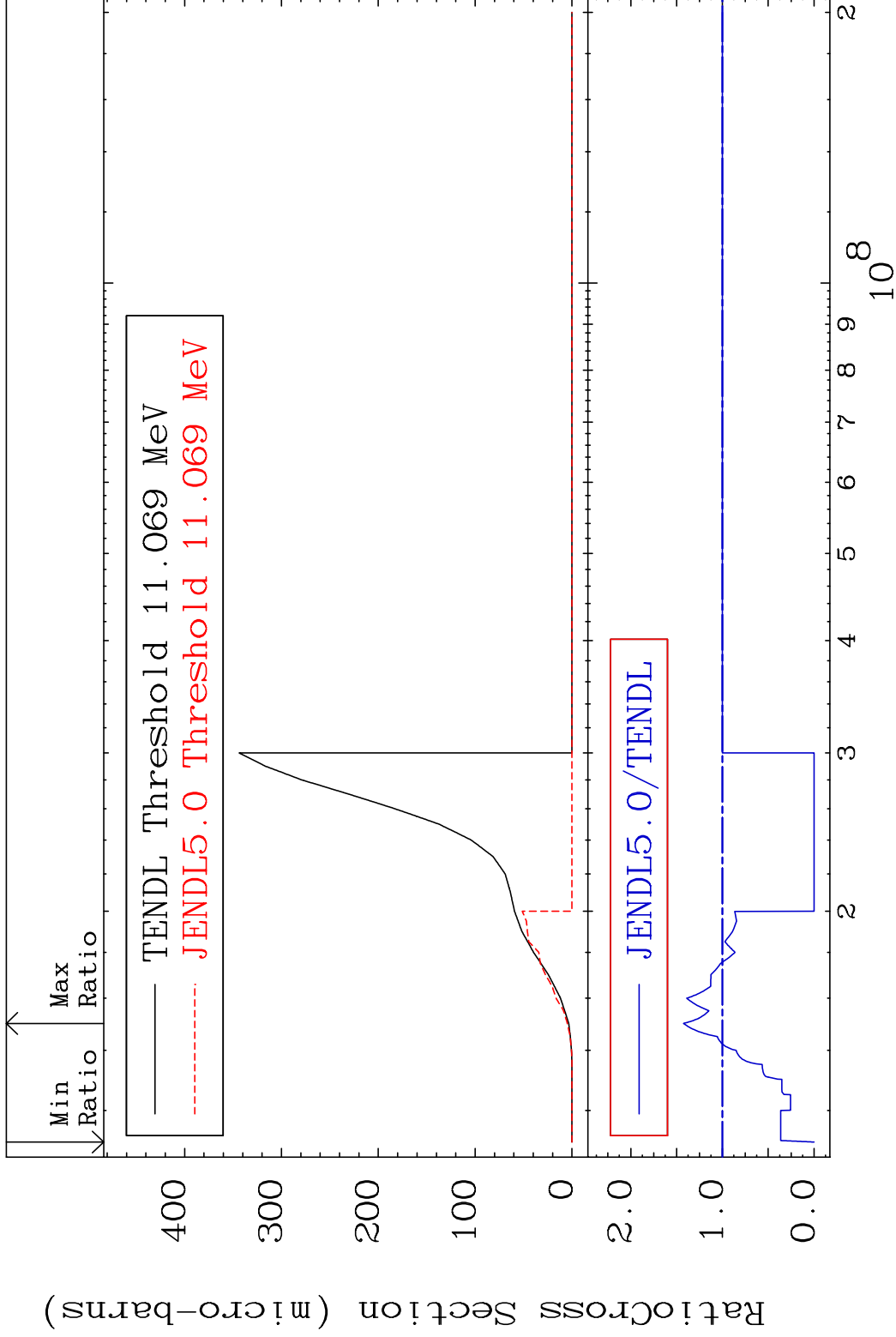
22-Ti-49

MAT 2234

(n,2p)

²²Ti-49

Cross Section -100.0 To 42.51 %

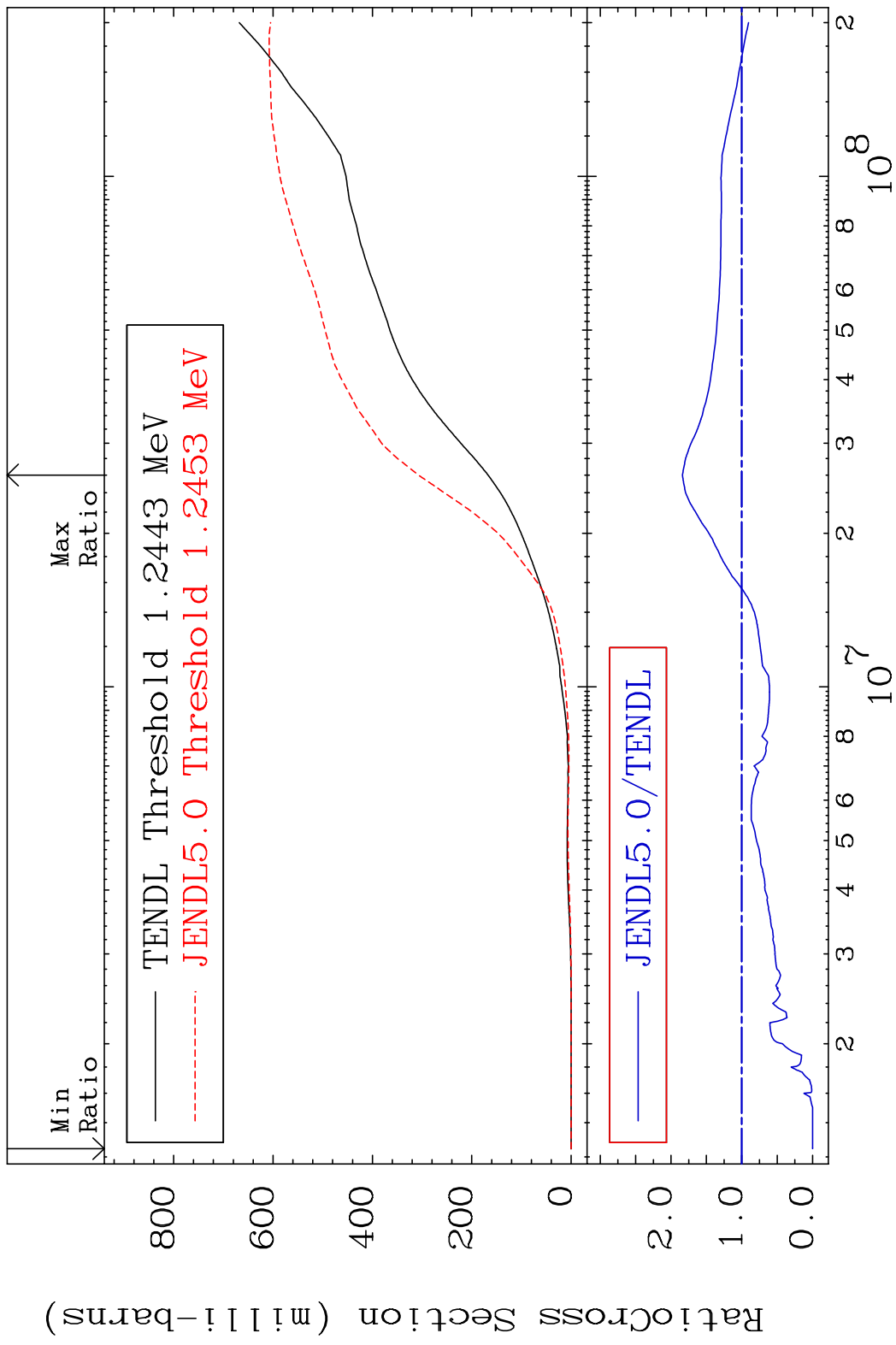


46

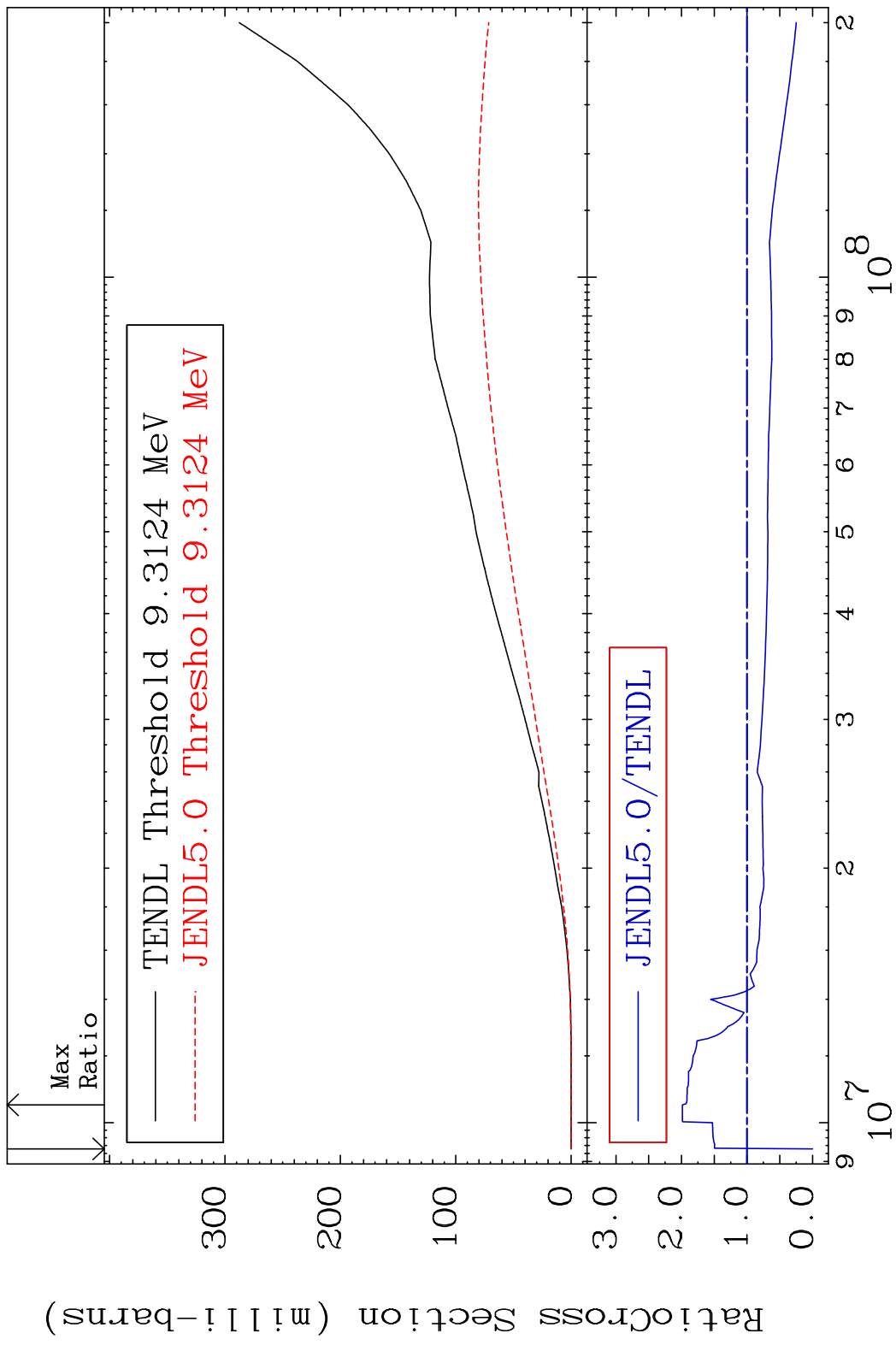
Incident Energy (eV)

²²Ti-49

MAT 2234 Hydrogen Production $^{22}\text{Ti-49}$
 Cross Section -100.0 To 83.97 %

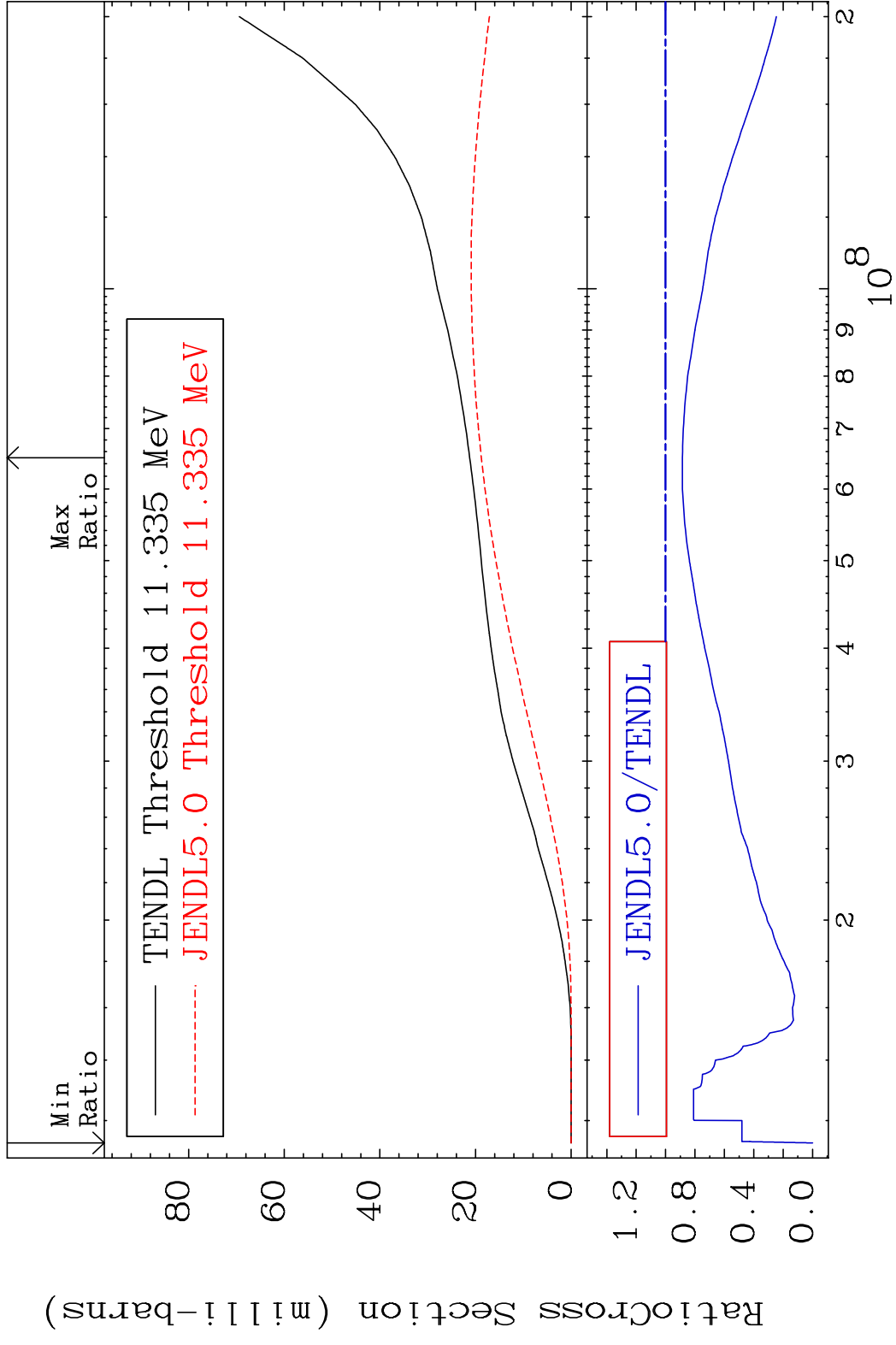


MAT 2234 Deuterium Production $^{22}\text{Ti-49}$
 Cross Section -100.0 To 98.66 %

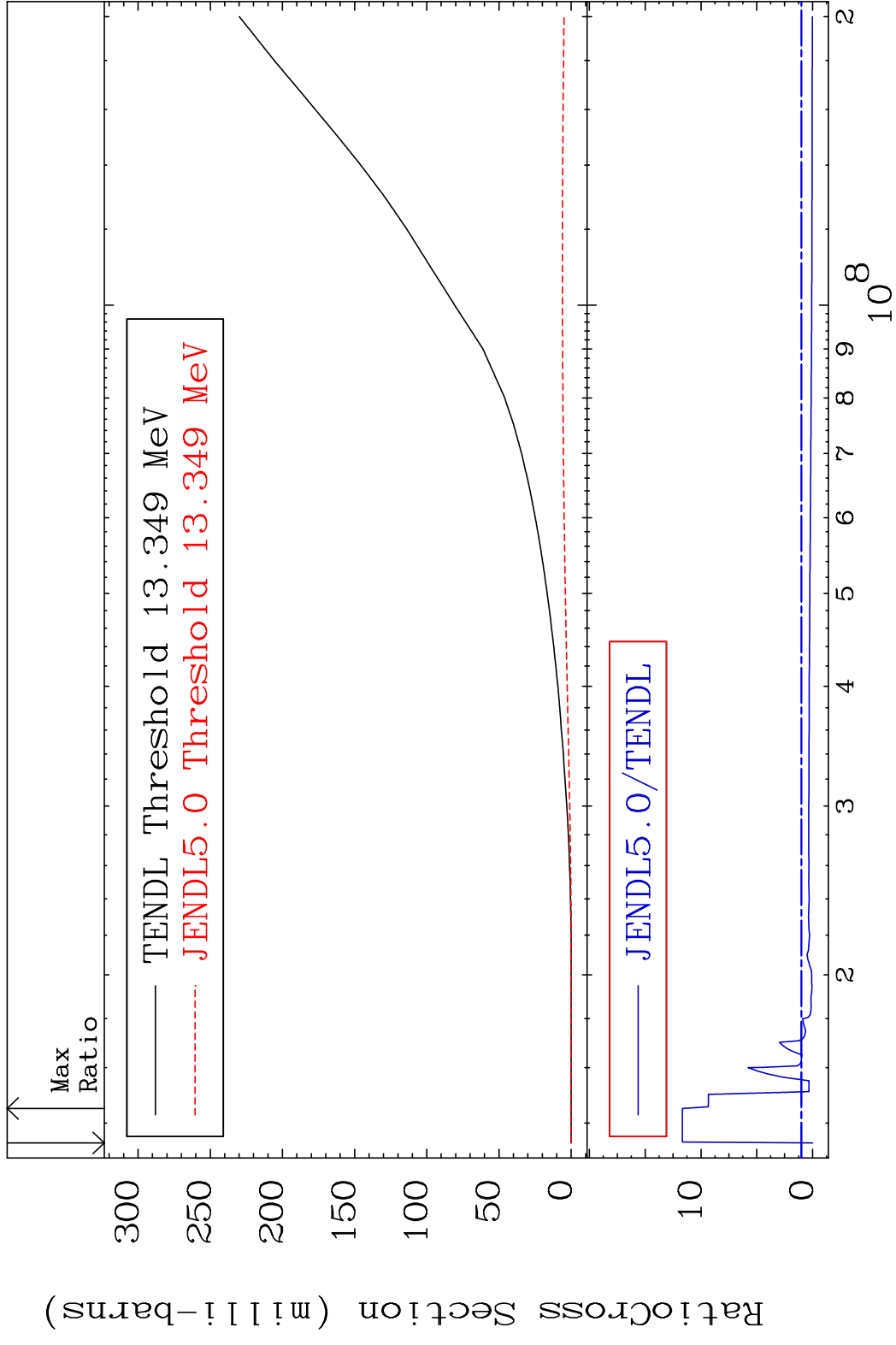


48 Incident Energy (eV) $^{22}\text{Ti-49}$

MAT 2234 Tritium Production $^{22}\text{Ti-49}$
 Cross Section -100.0 To -11.41%



MAT 2234 He-3 Production 22-Ti-49
 Cross Section -100.0 To 1067. %

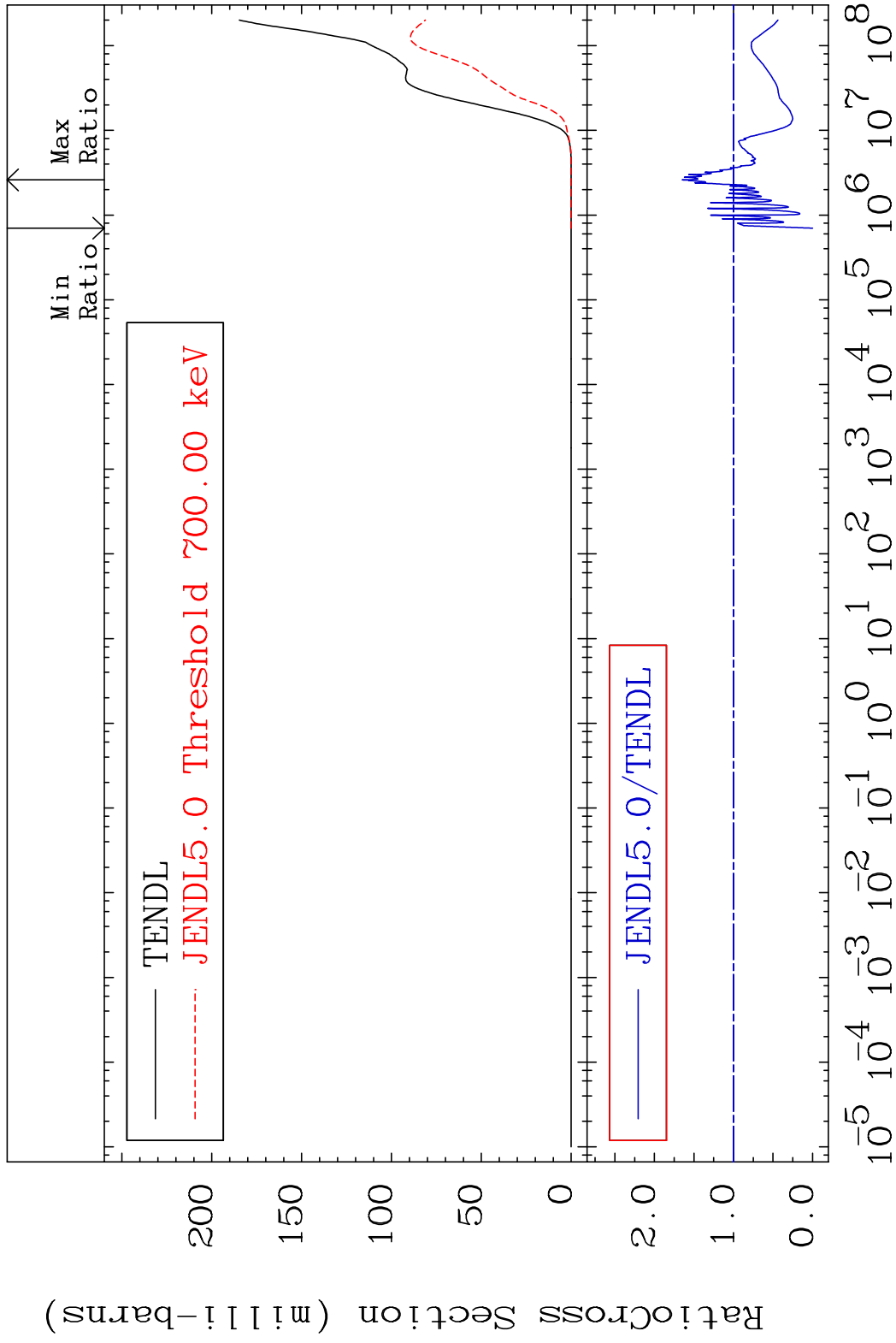


MAT 2234

He-4 Production

²²Ti-49

Cross Section -100.0 To 64.68 %

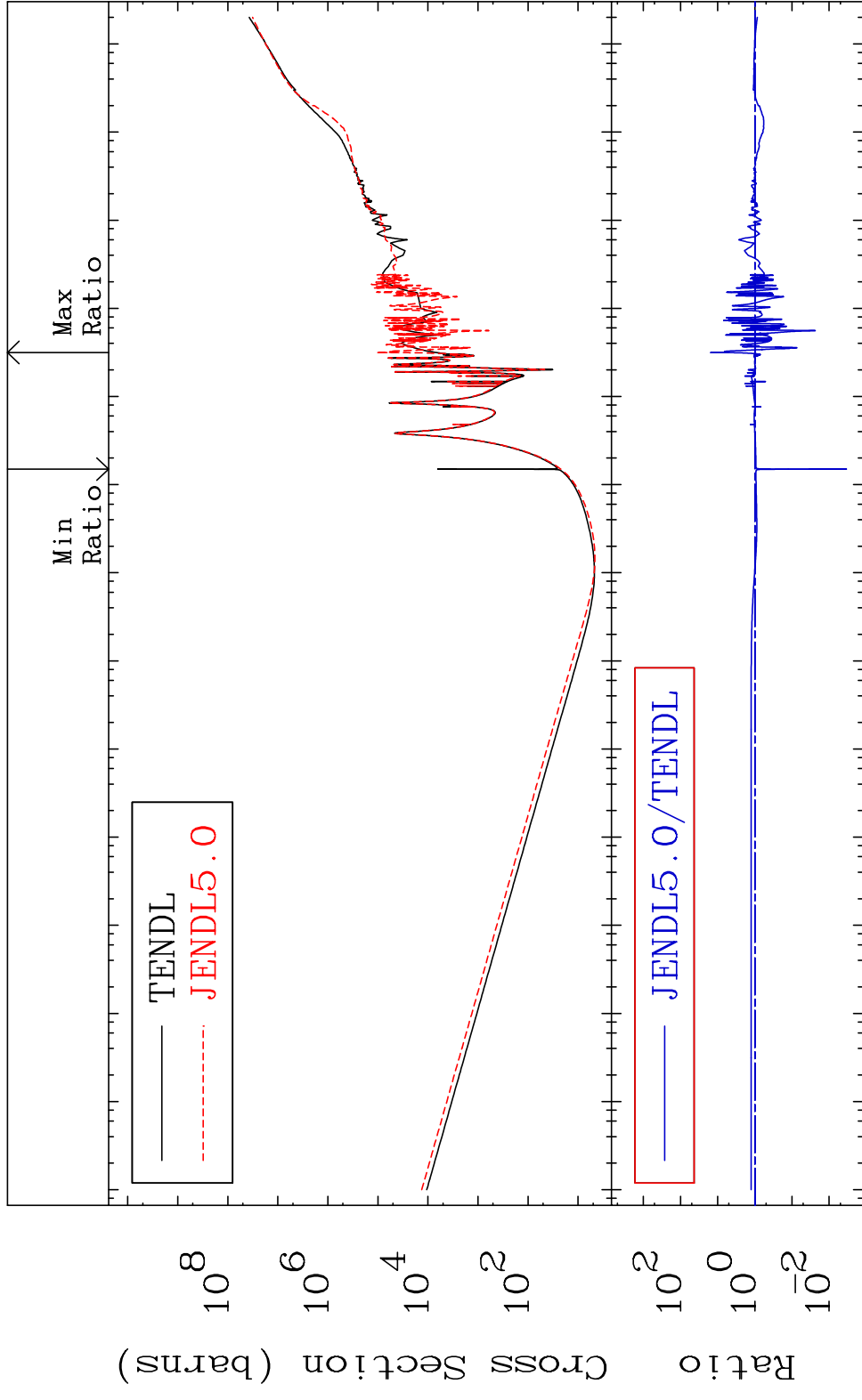


51

Incident Energy (eV)

²²Ti-49

MAT 2234 Kerma total (eV-barns) 22-Ti-49
 Cross Section -99.66 To 1441. %



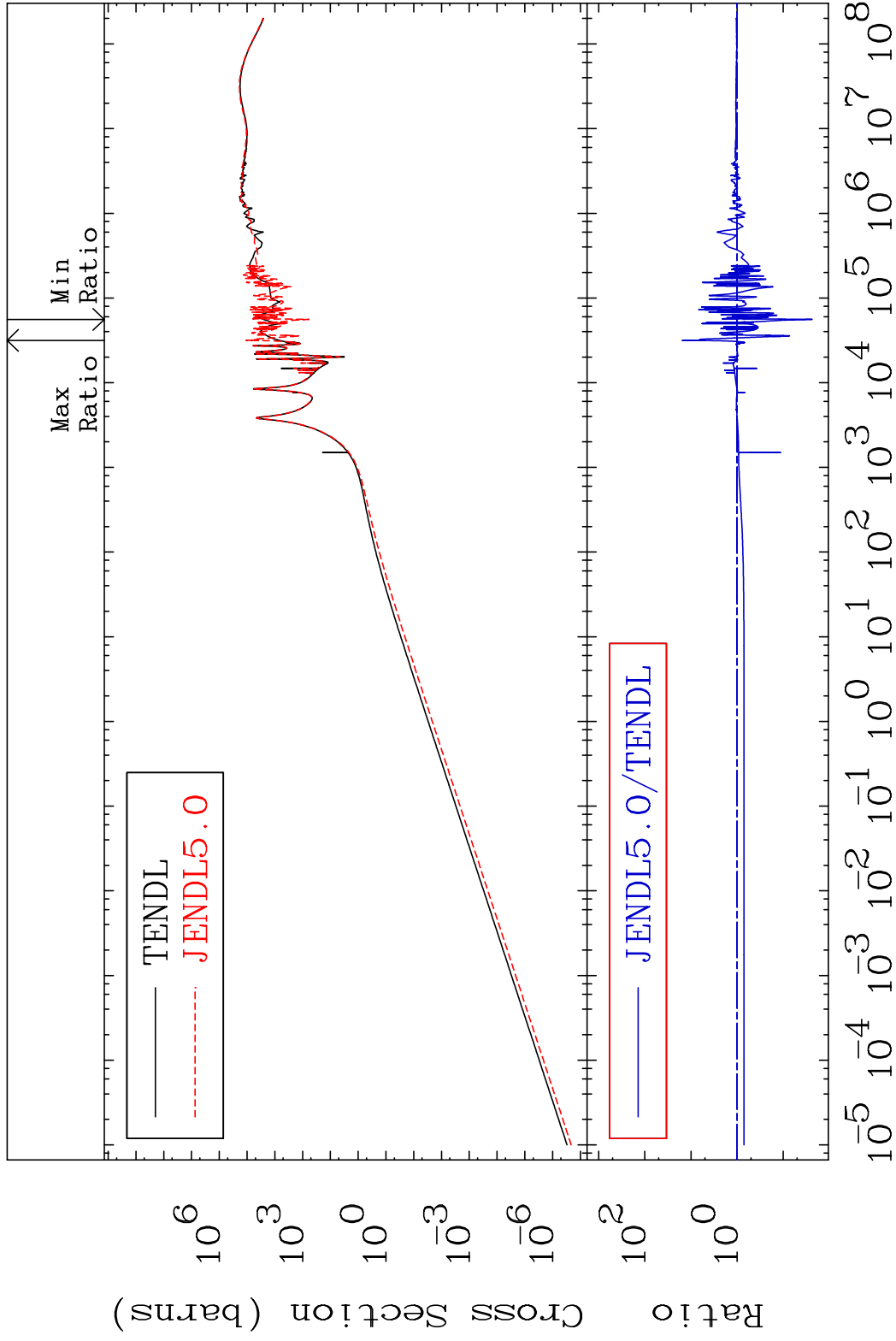
52 Incident Energy (eV) 22-Ti-49

MAT 2234

Kerma elastic

22-Ti-49

Cross Section -97.68 To 1438. %

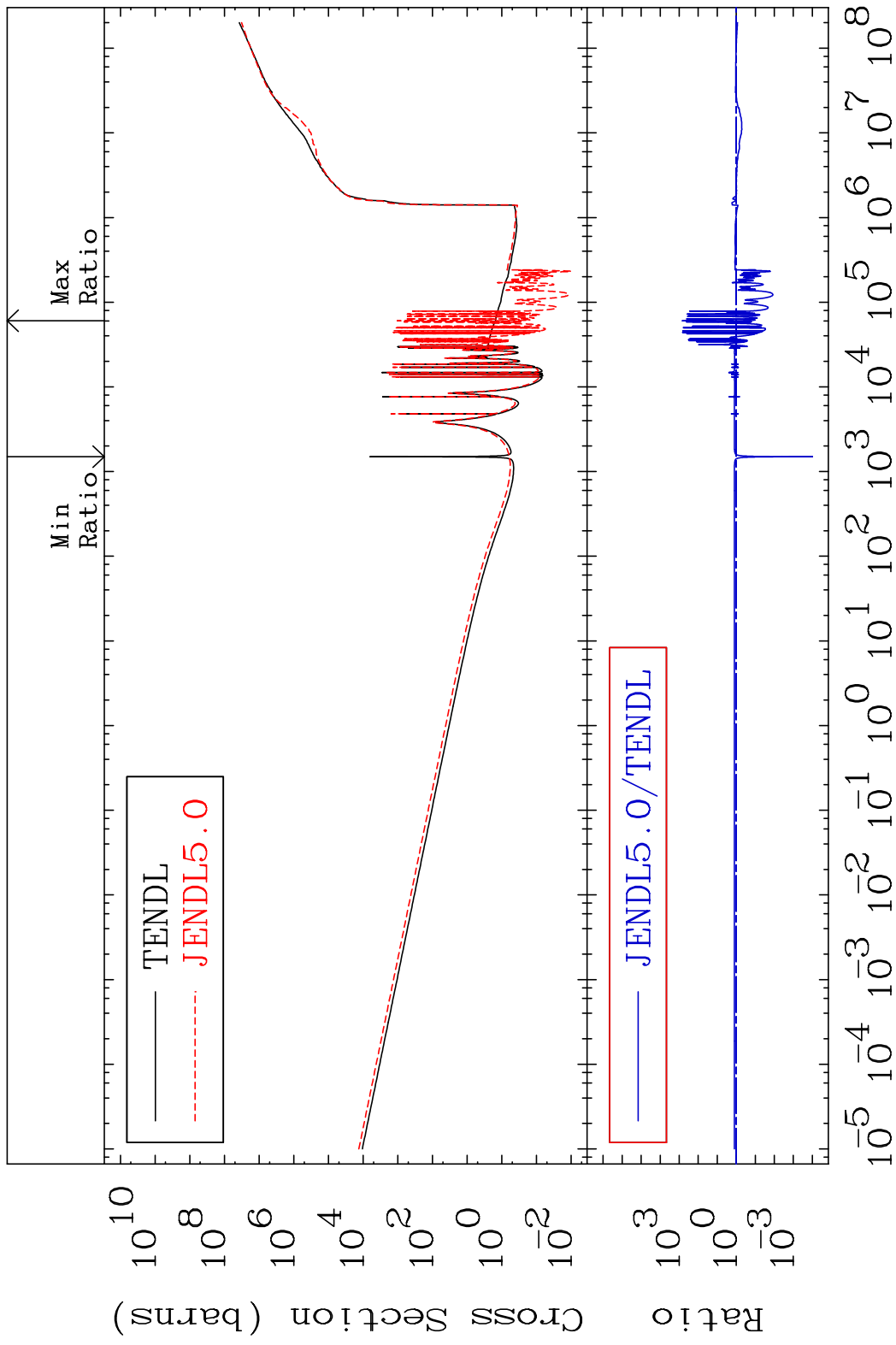


53

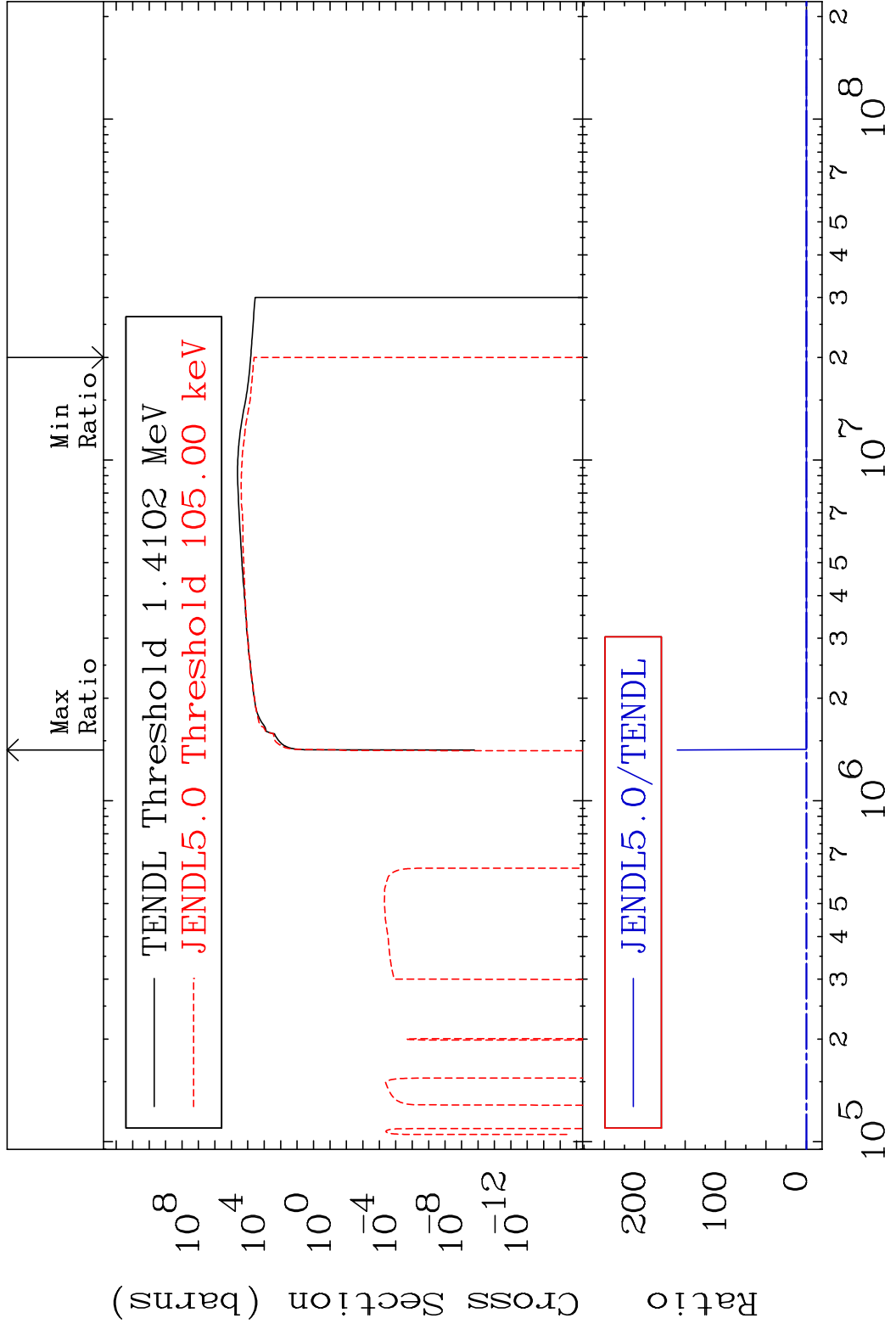
Incident Energy (eV)

22-Ti-49

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

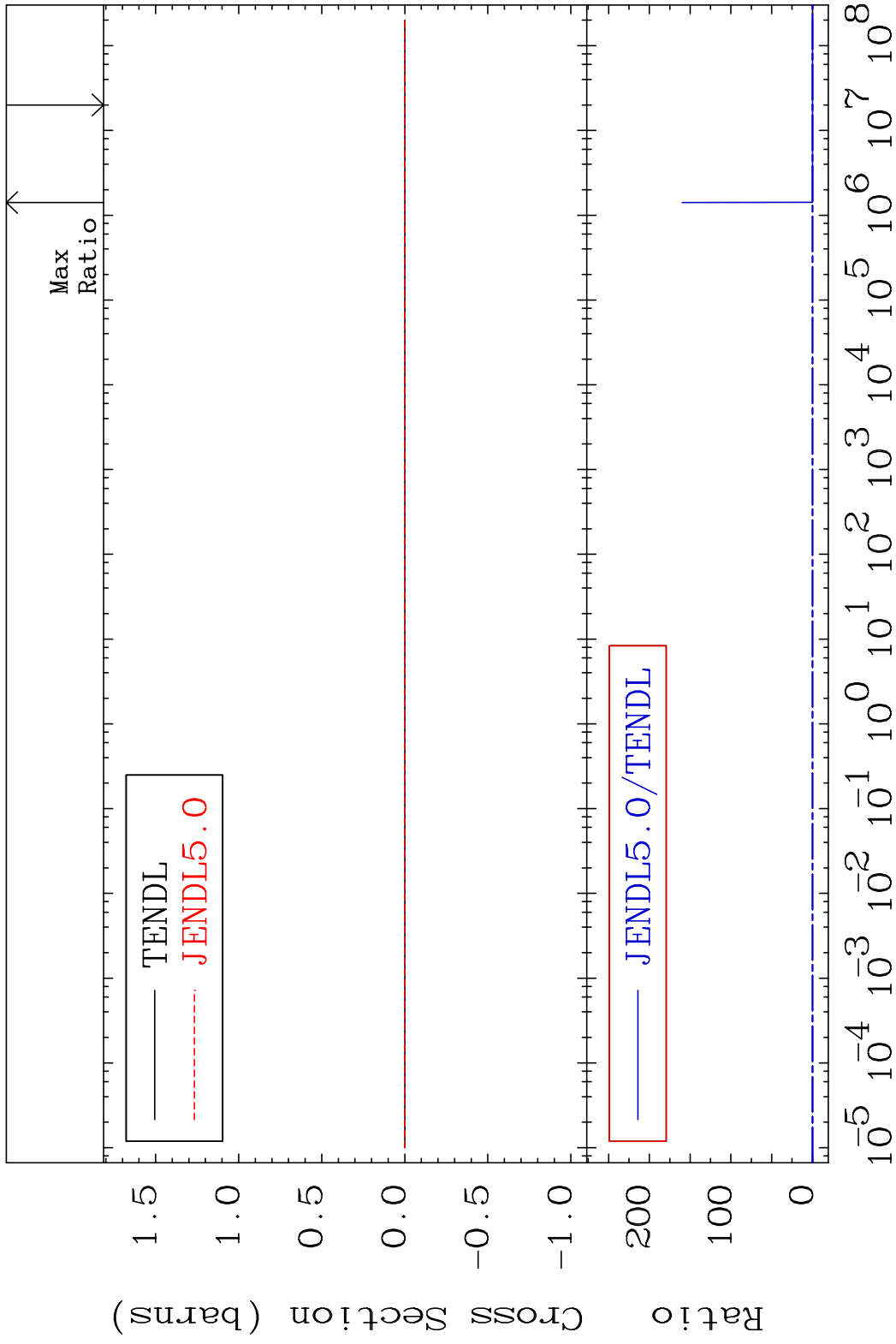


MAT 2234 Kerma inelastic (mt51-91) 22-Ti-49
 Cross Section -100.0 To 9999. %

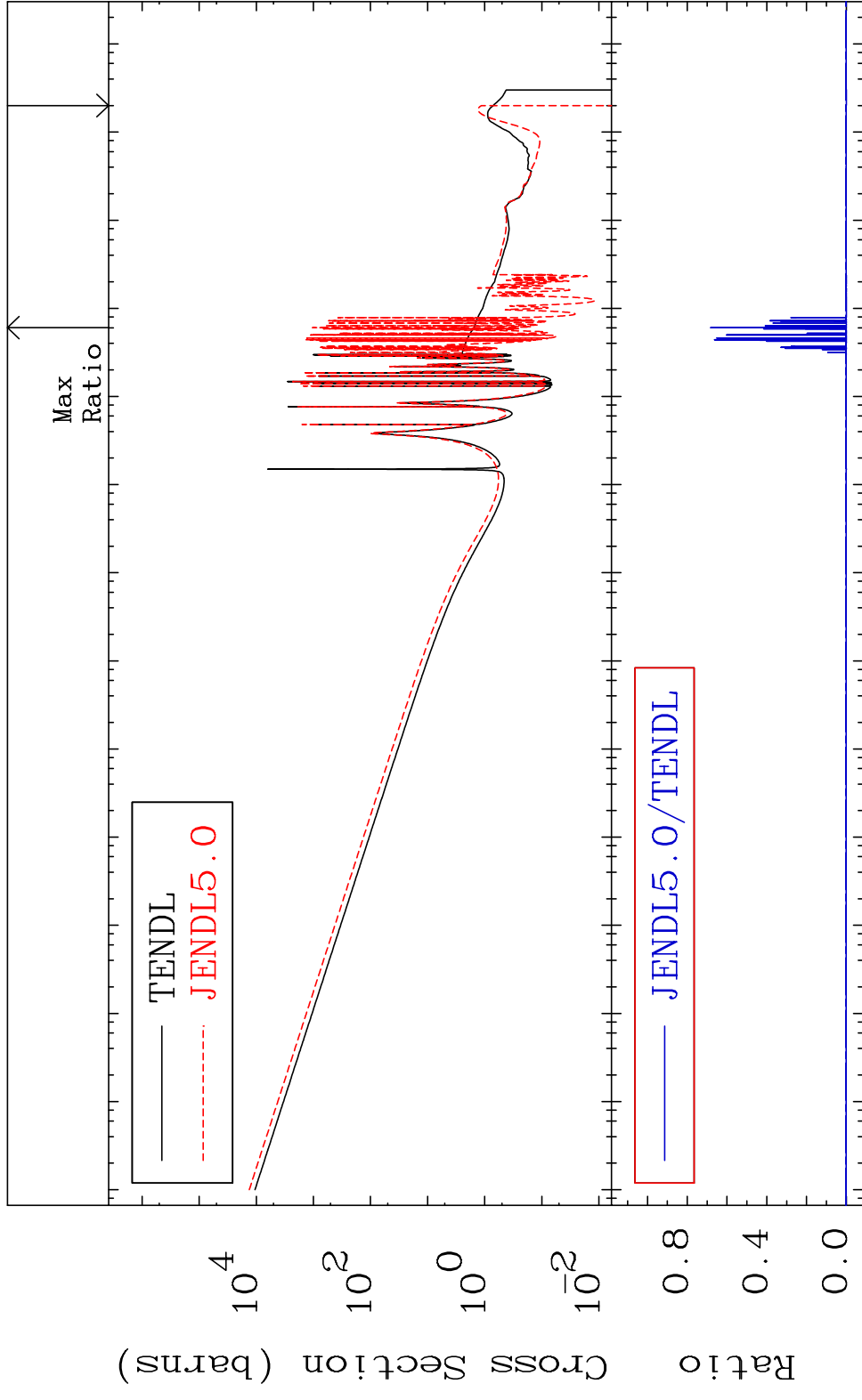


55 Incident Energy (eV) 22-Ti-49

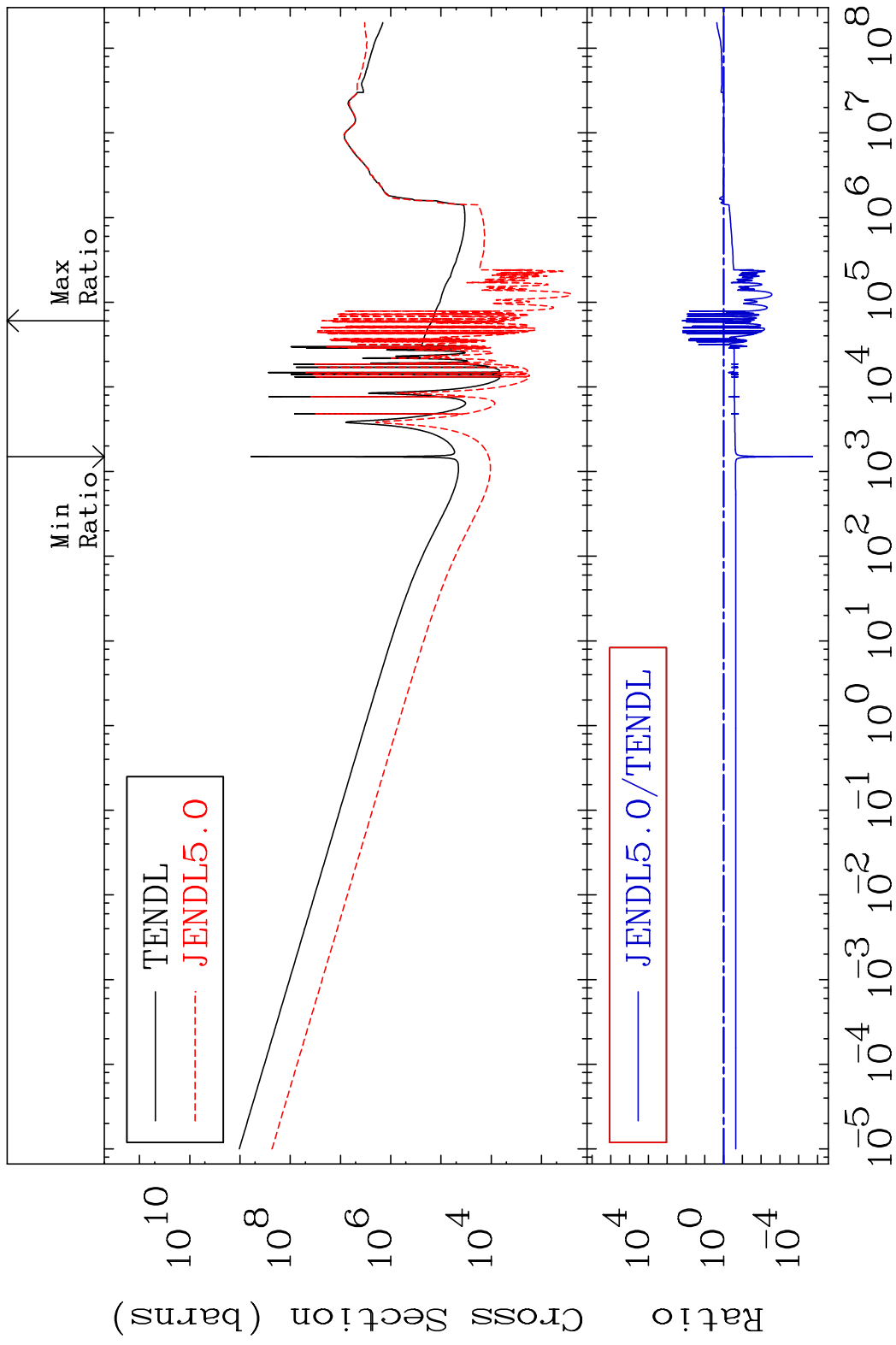
MAT 2234 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-49
 Cross Section -100.0 To 9999. %



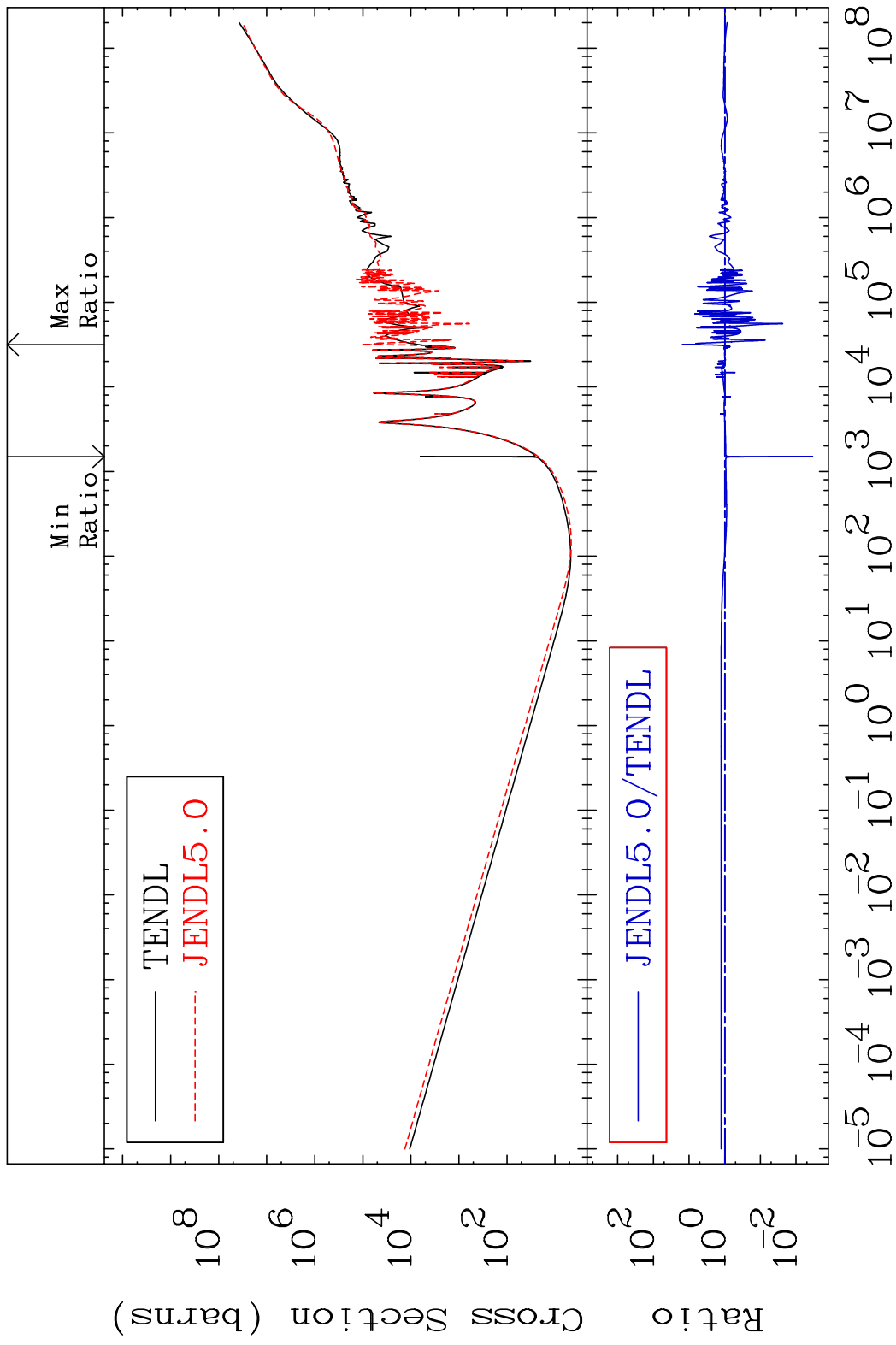
MAT 2234 Kerma capture (mt102) 22-Ti-49
 Cross Section -100.0 To 9999. %



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



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

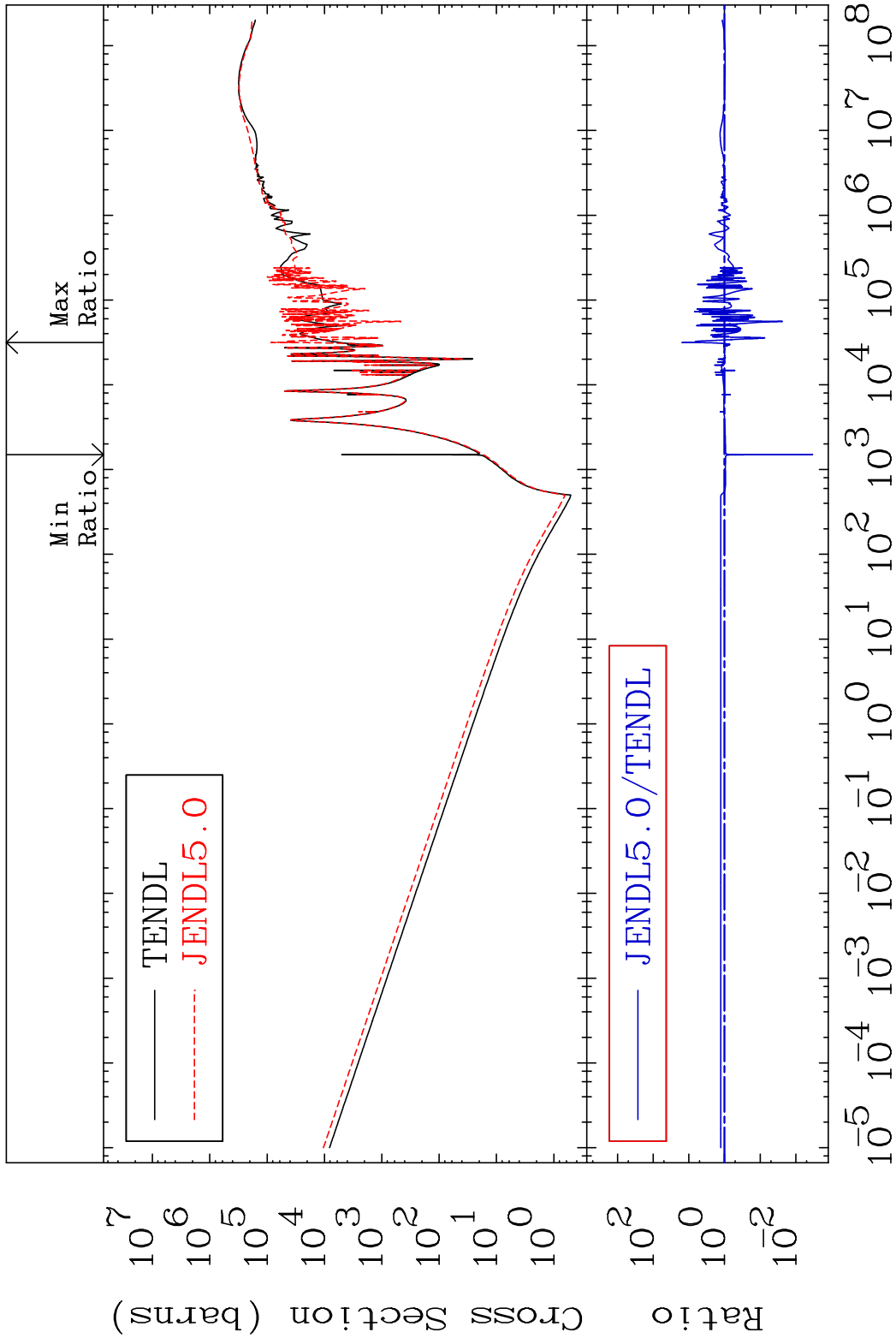


MAT 2234

Dpa total (eV-barns)

22-Ti-49

Cross Section -99.66 To 1441. %



60

Incident Energy (eV)

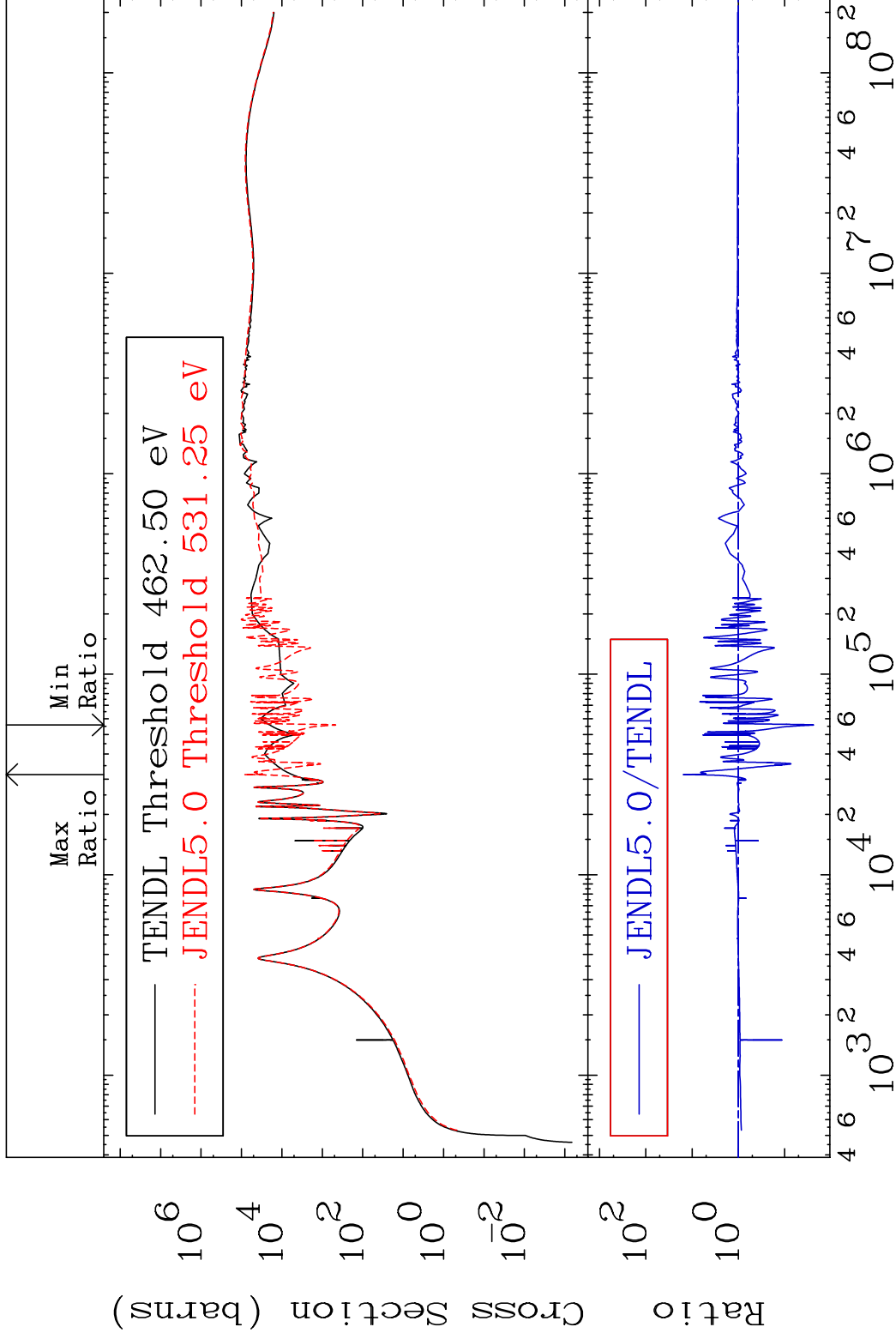
22-Ti-49

MAT 2234

Dpa elastic (mt2)

22-Ti-49

Cross Section -97.68 To 1439. %

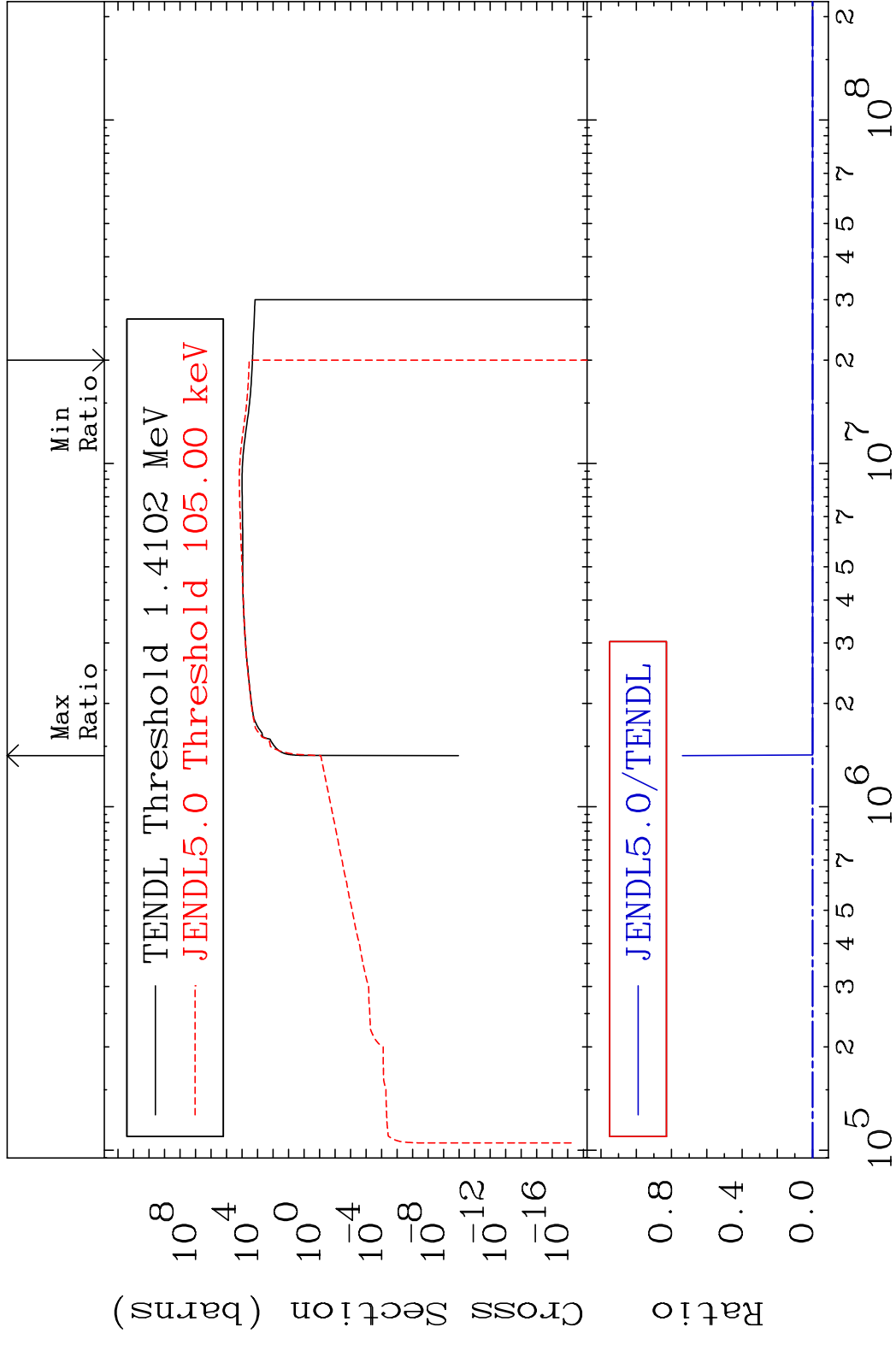


61

Incident Energy (eV)

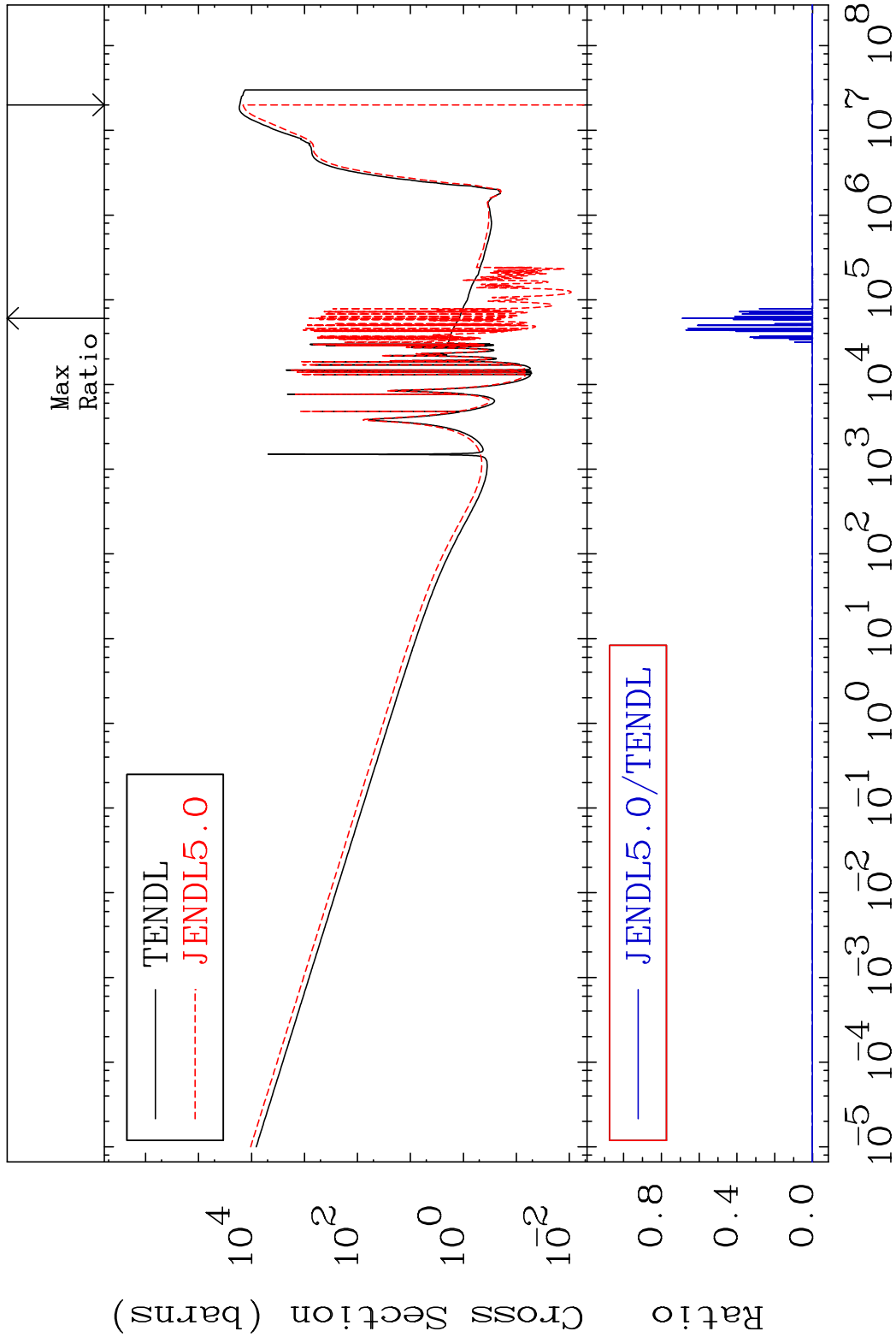
22-Ti-49

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



62 Incident Energy (eV) 22-Ti-49

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

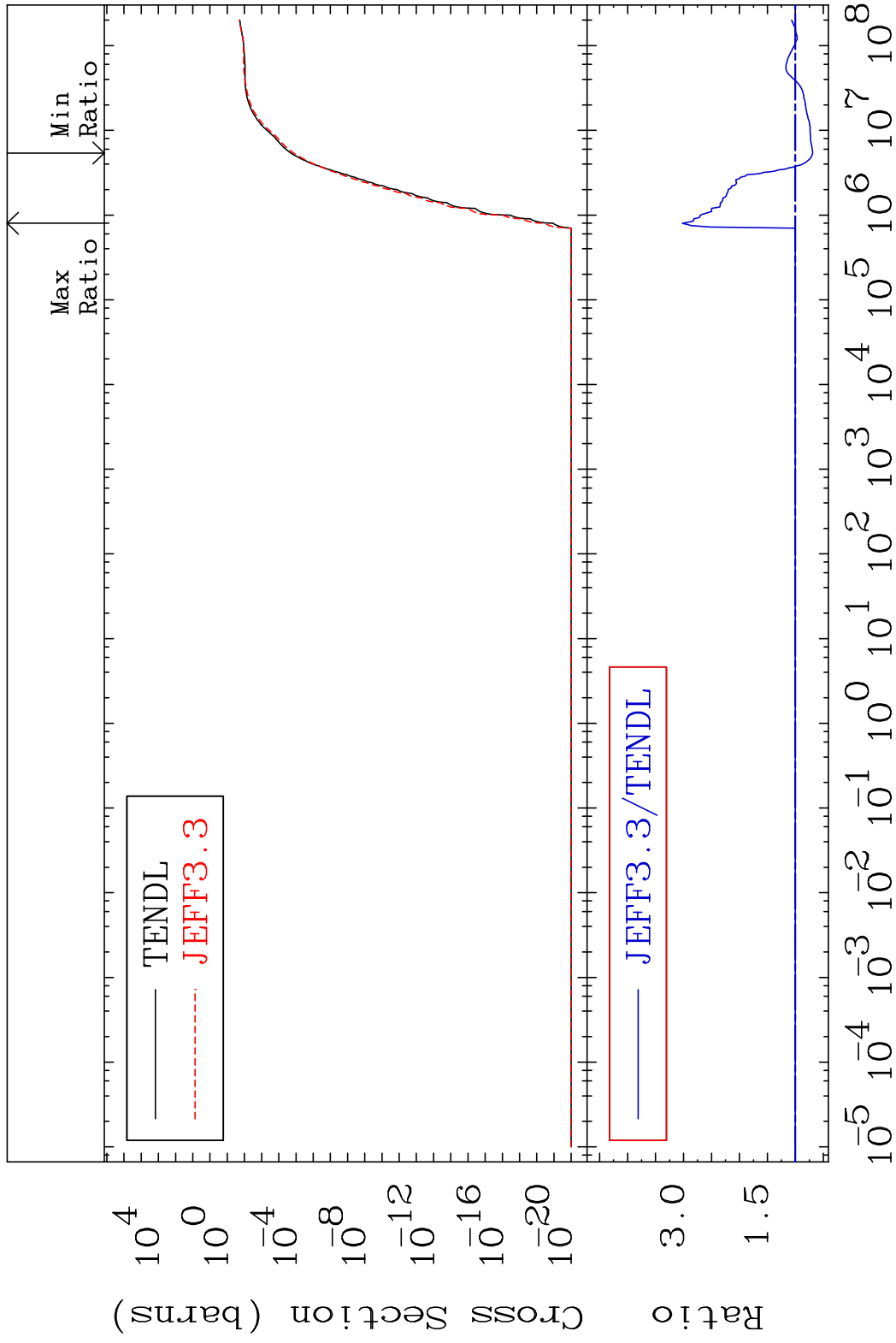


MAT 2234

He-4 Production

²²Ti-49

Cross Section -30.70 To 202.1 %



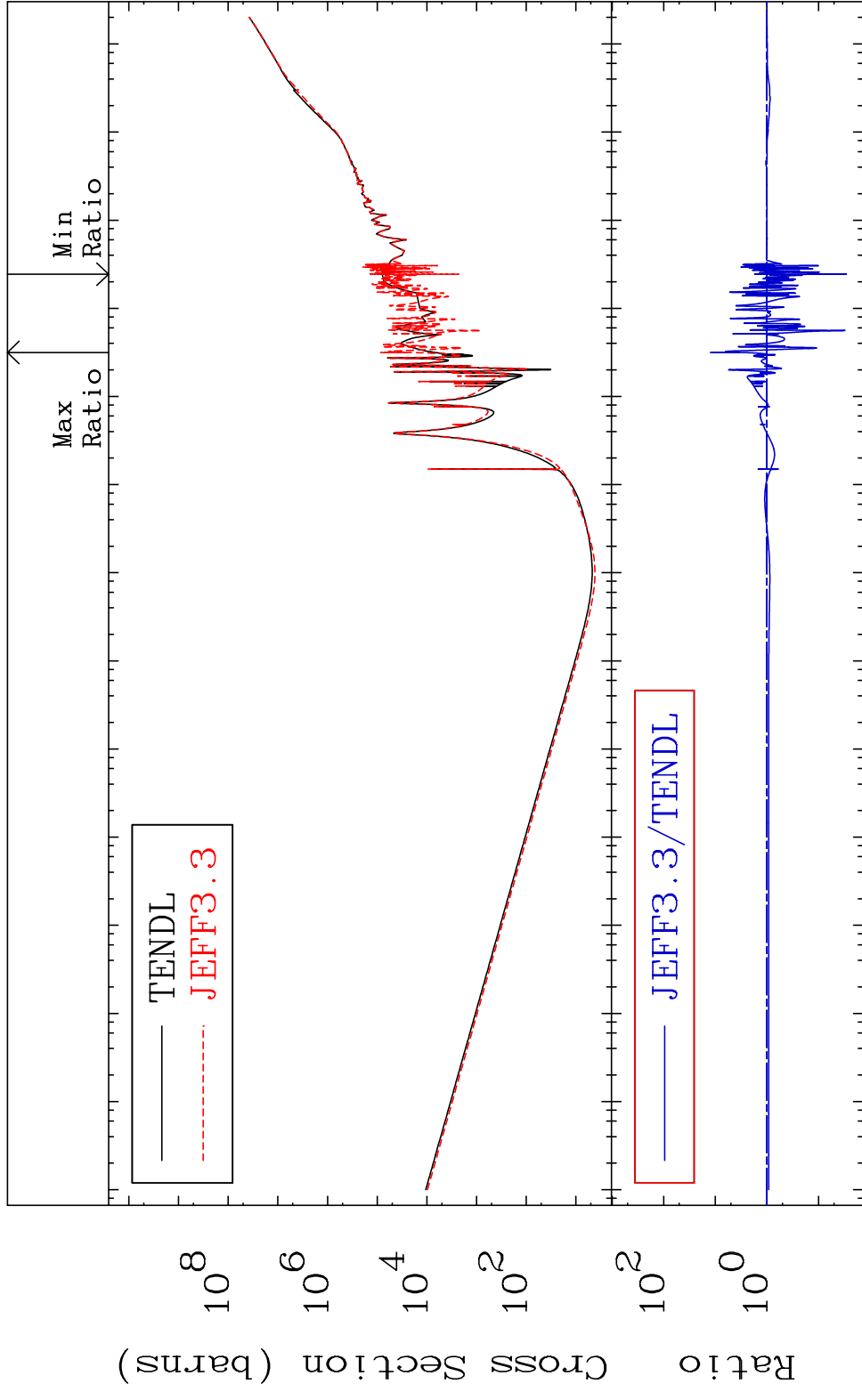
64

Incident Energy (eV)

²²Ti-49

MAT 2234

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



10⁸
10⁶
10⁴
10²
10²
10⁰
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

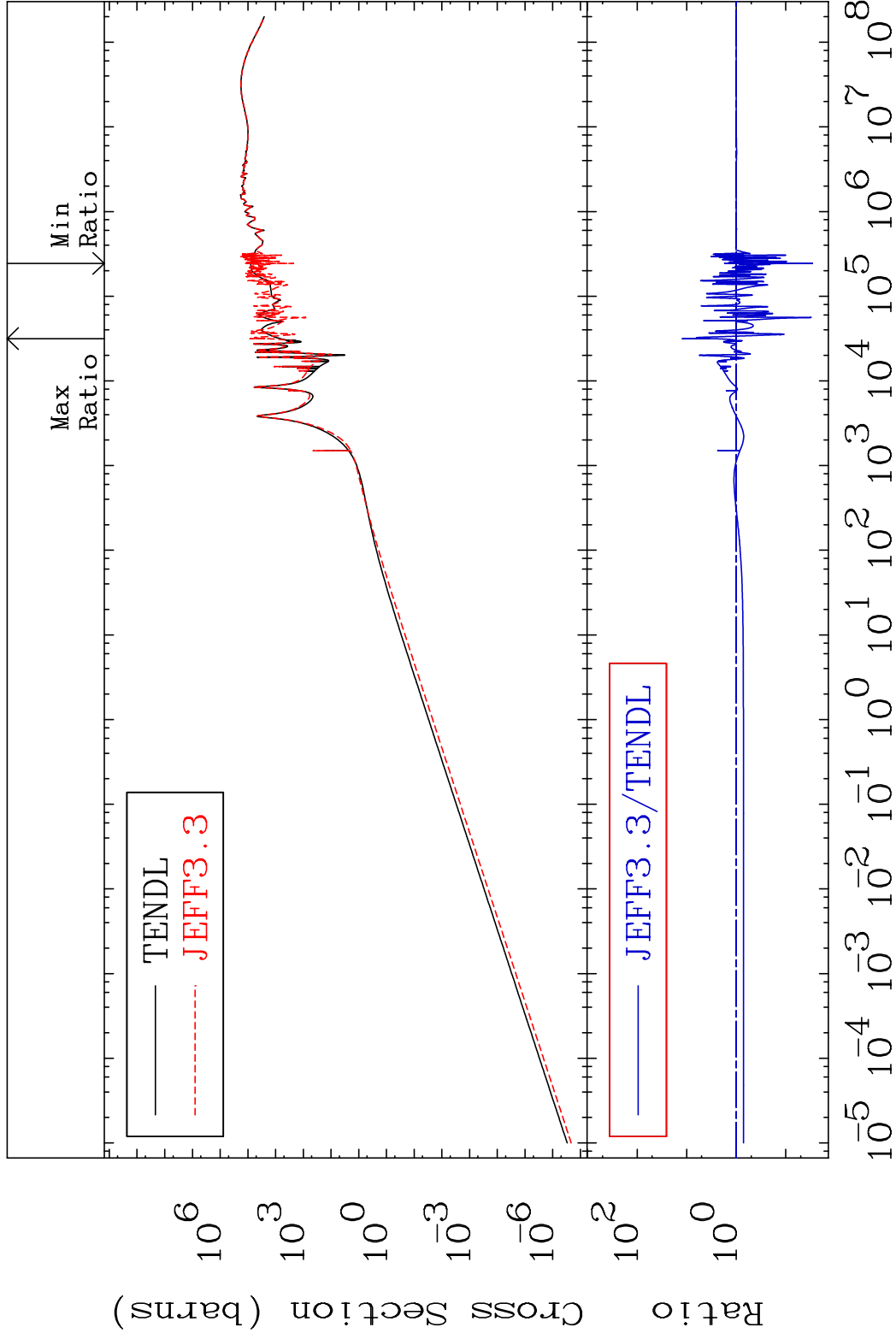
65

Incident Energy (eV) 22-Ti-49

MAT 2234

Kerma elastic
Cross Section

22-Ti-49
-97.12 To 1123. %

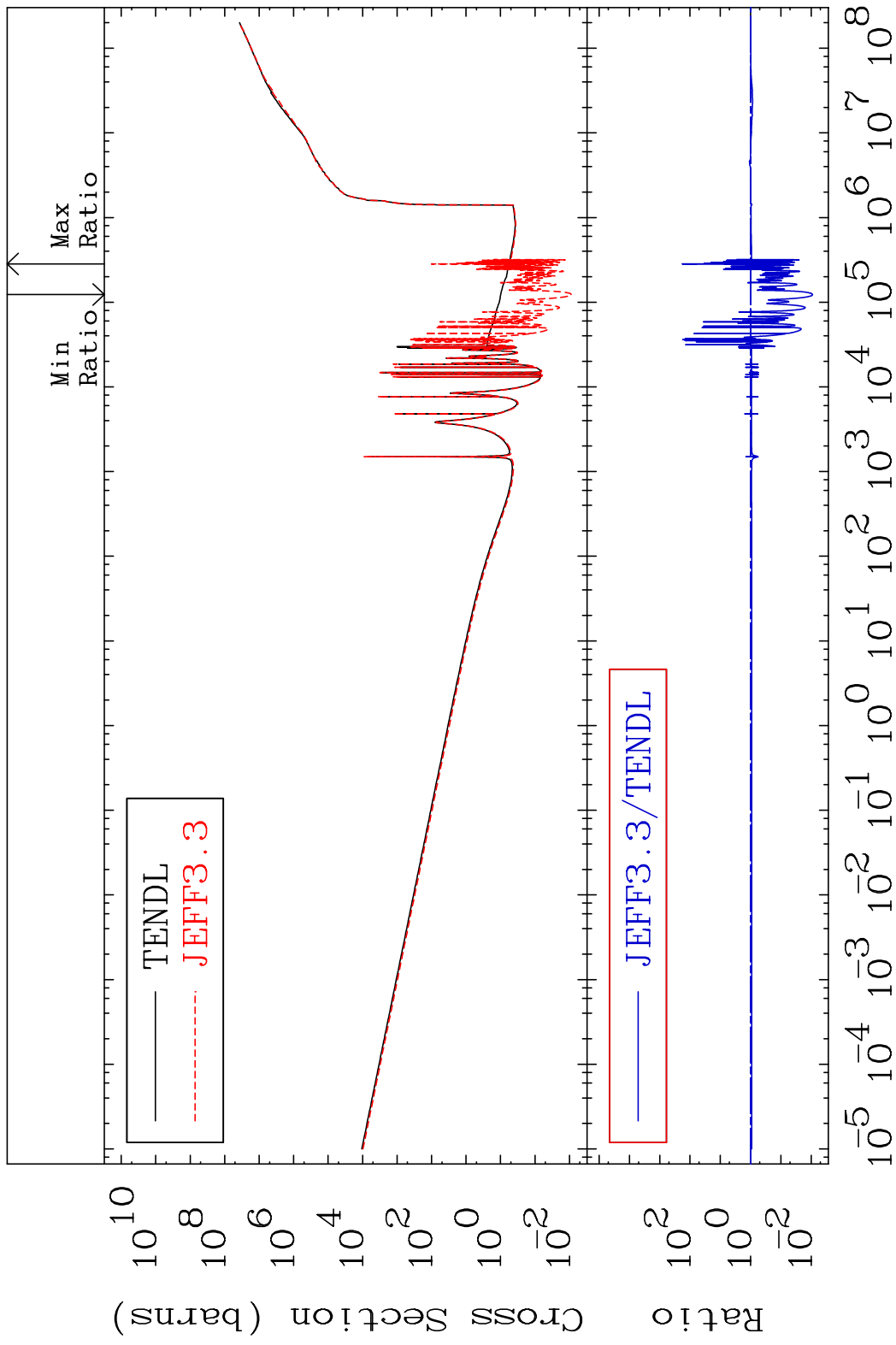


66

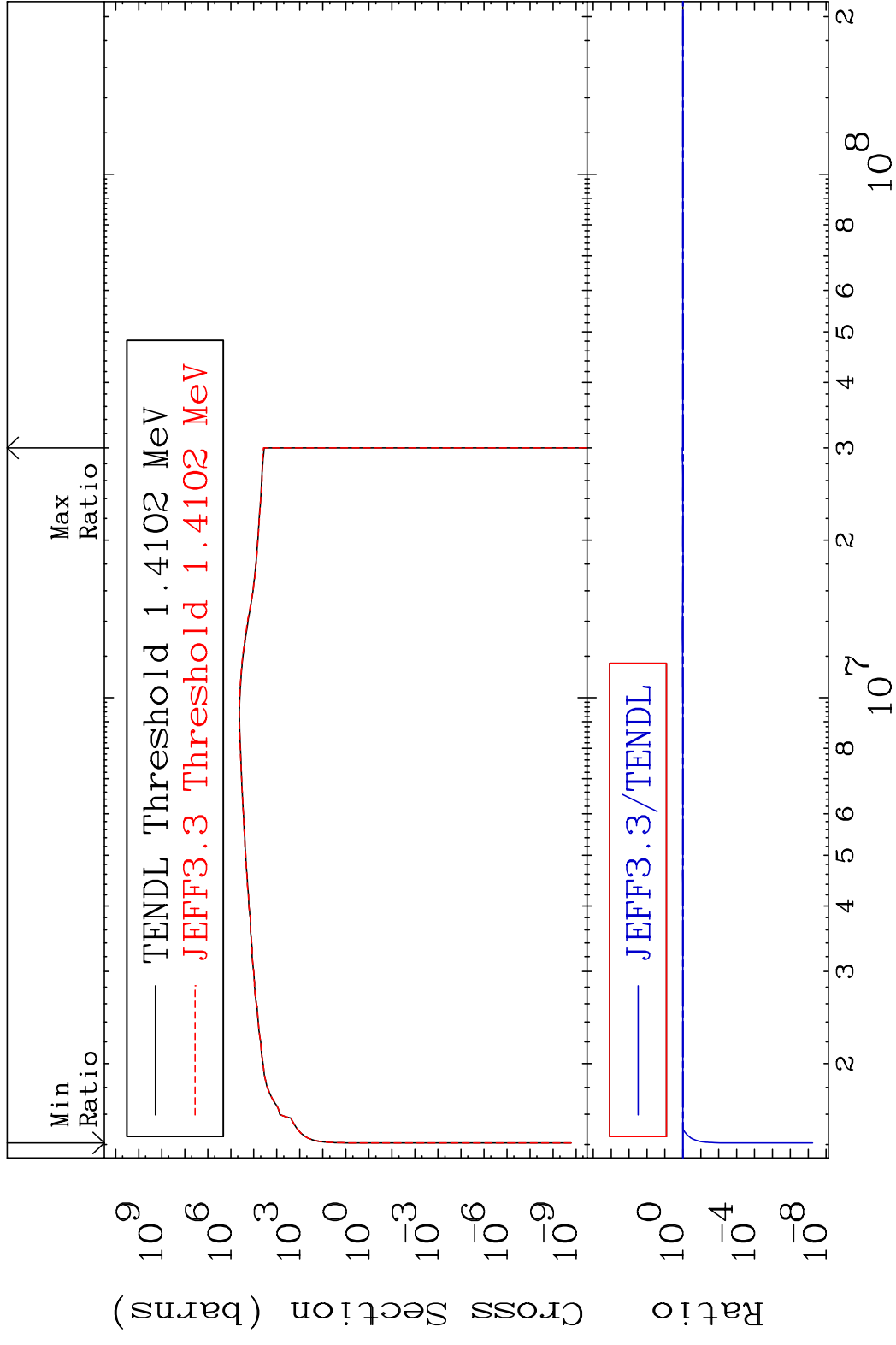
Incident Energy (eV)

22-Ti-49

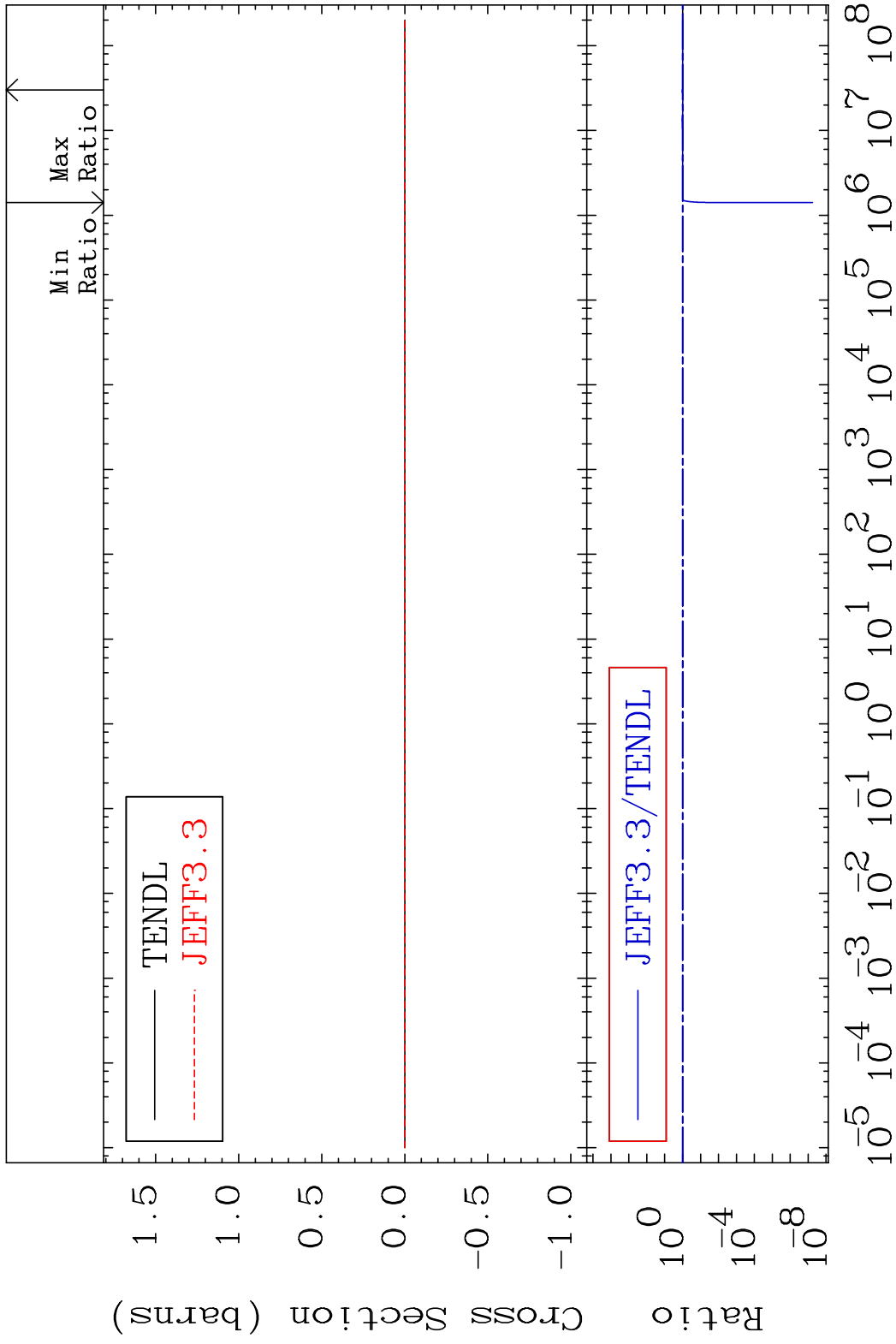
MAT 2234 Kerma non-elastic (all but mt2) 22-Ti-49
 Cross Section -99.09 To 9999. %



MAT 2234 Kerma inelastic (mt51-91) 22-Ti-49
 Cross Section -100.0 To 6.546 %

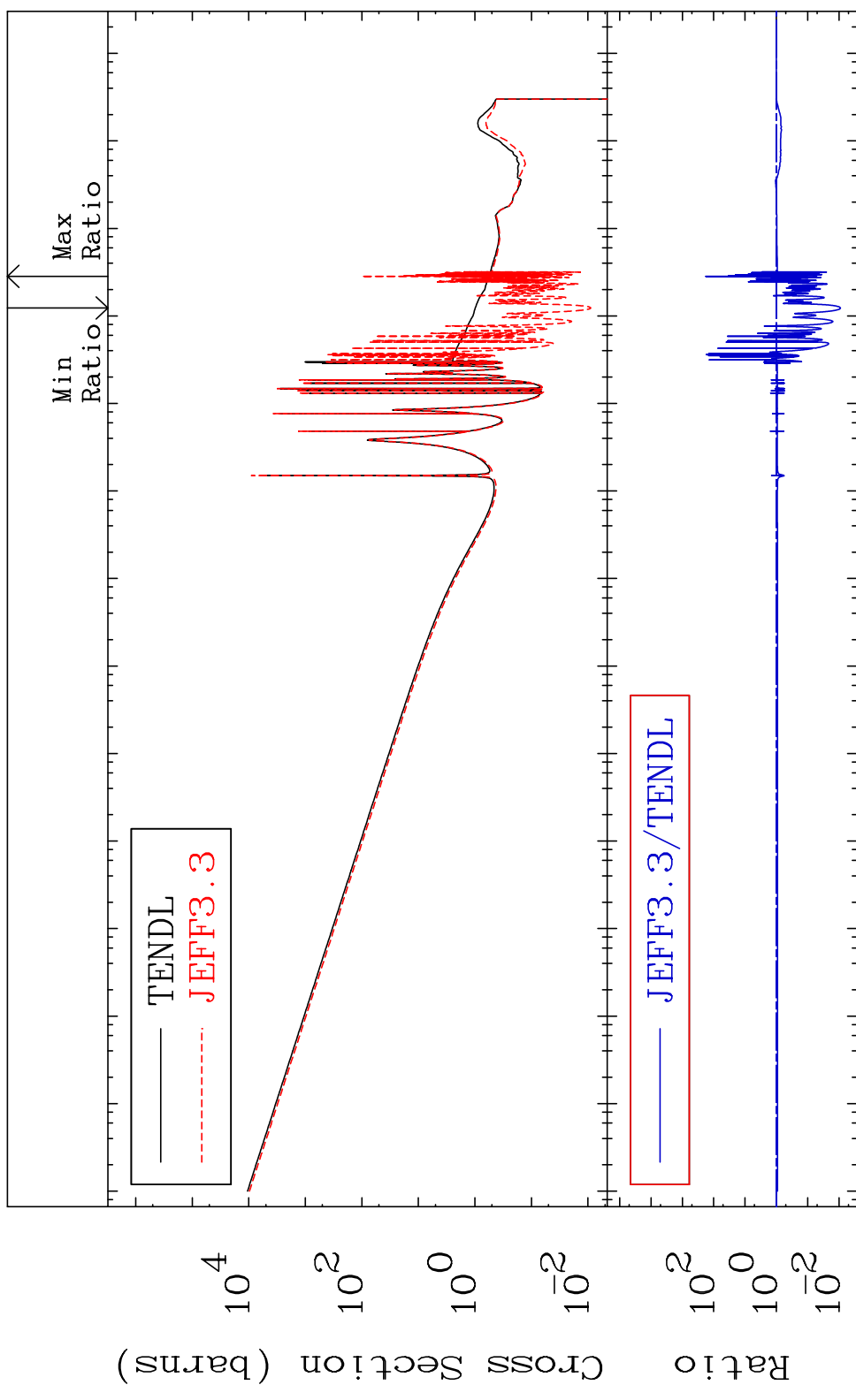


MAT 2234 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-49
 Cross Section -100.0 To 6.546 %



MAT 2234

Kerma capture (mt102) 22-Ti-49
Cross Section -99.09 To 9999. %



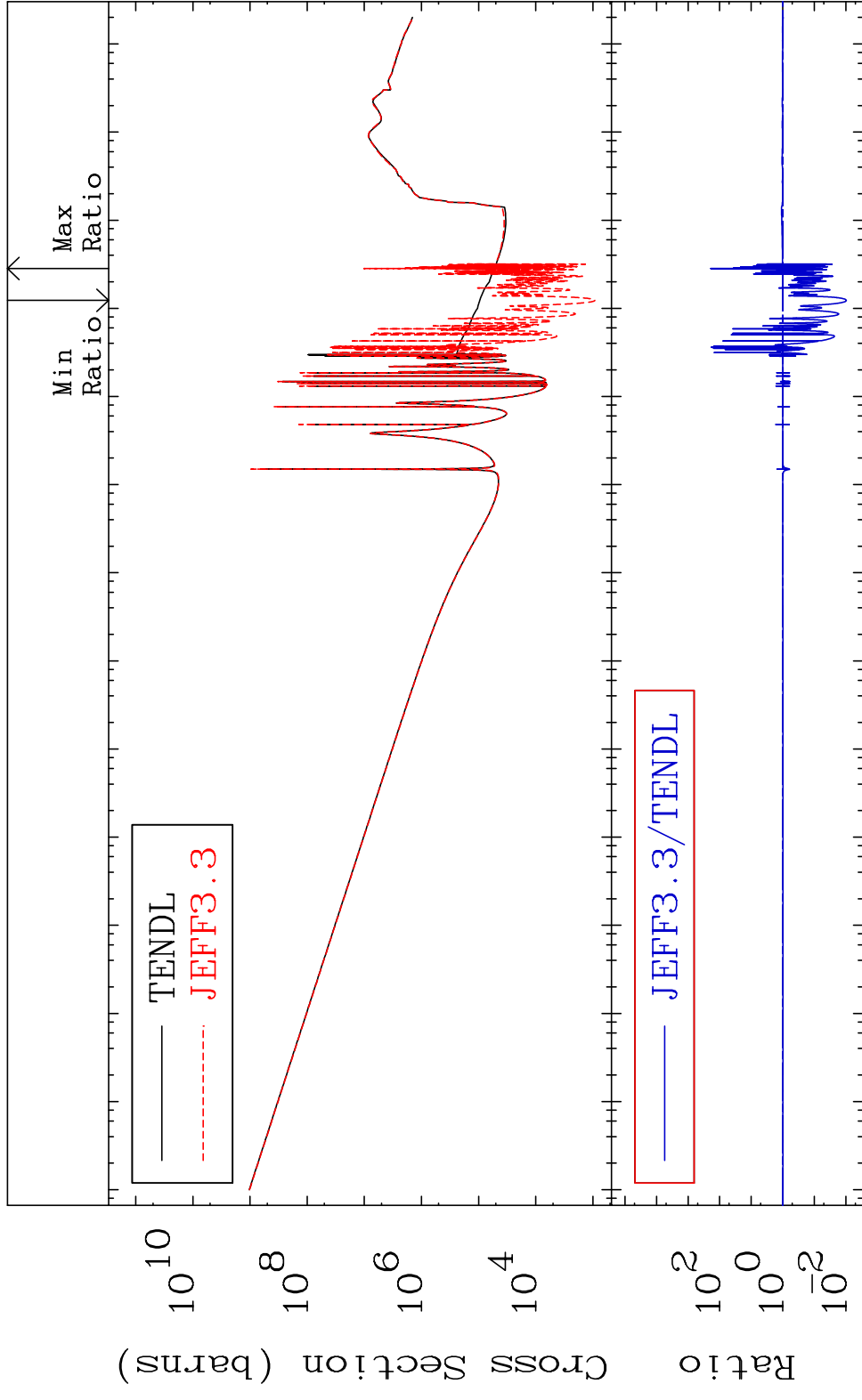
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

70

Incident Energy (eV)

22-Ti-49

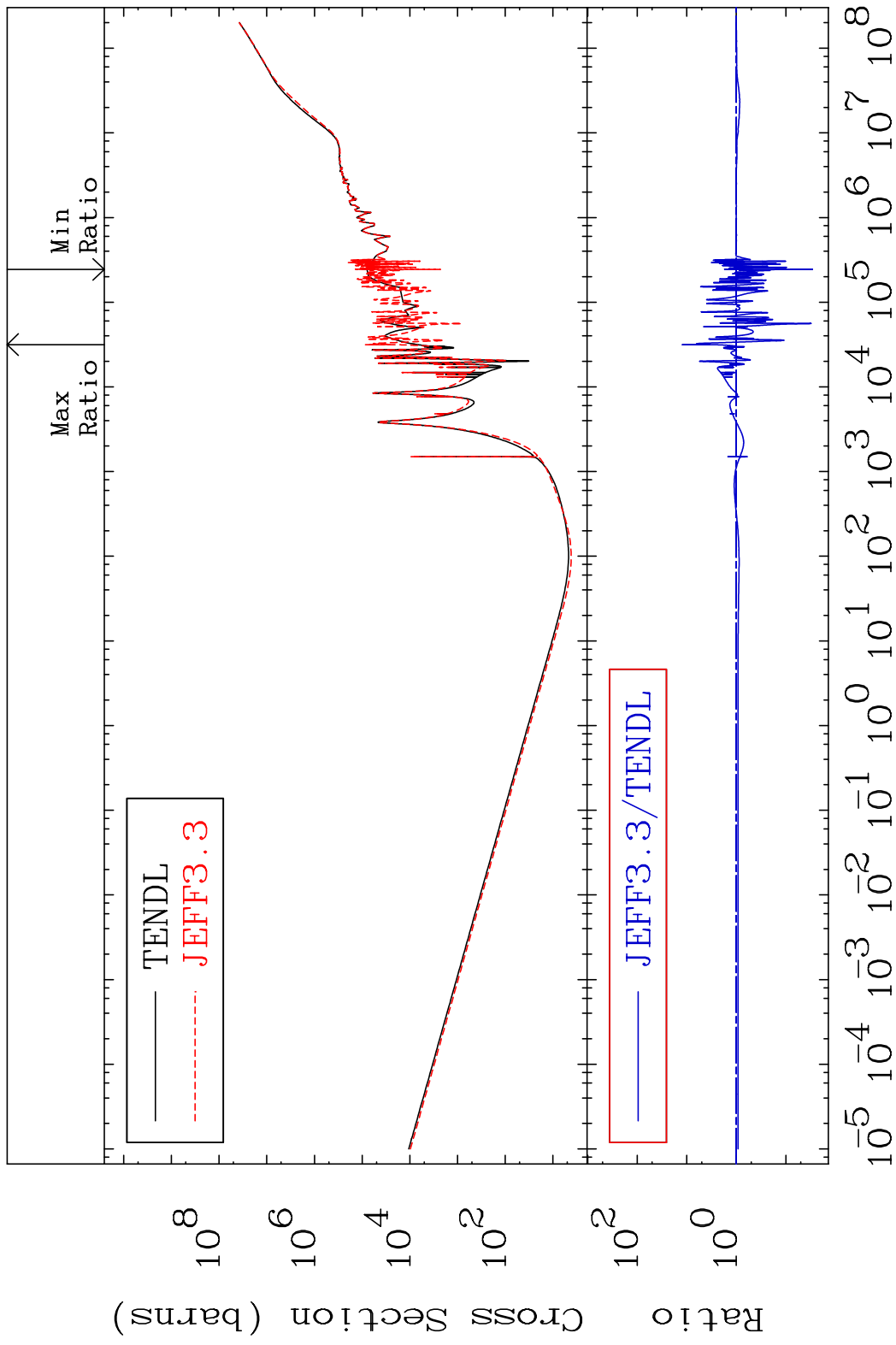
MAT 2234 Total photon (eV-barns) 22-Ti-49
 Cross Section -99.04 To 9999. %



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

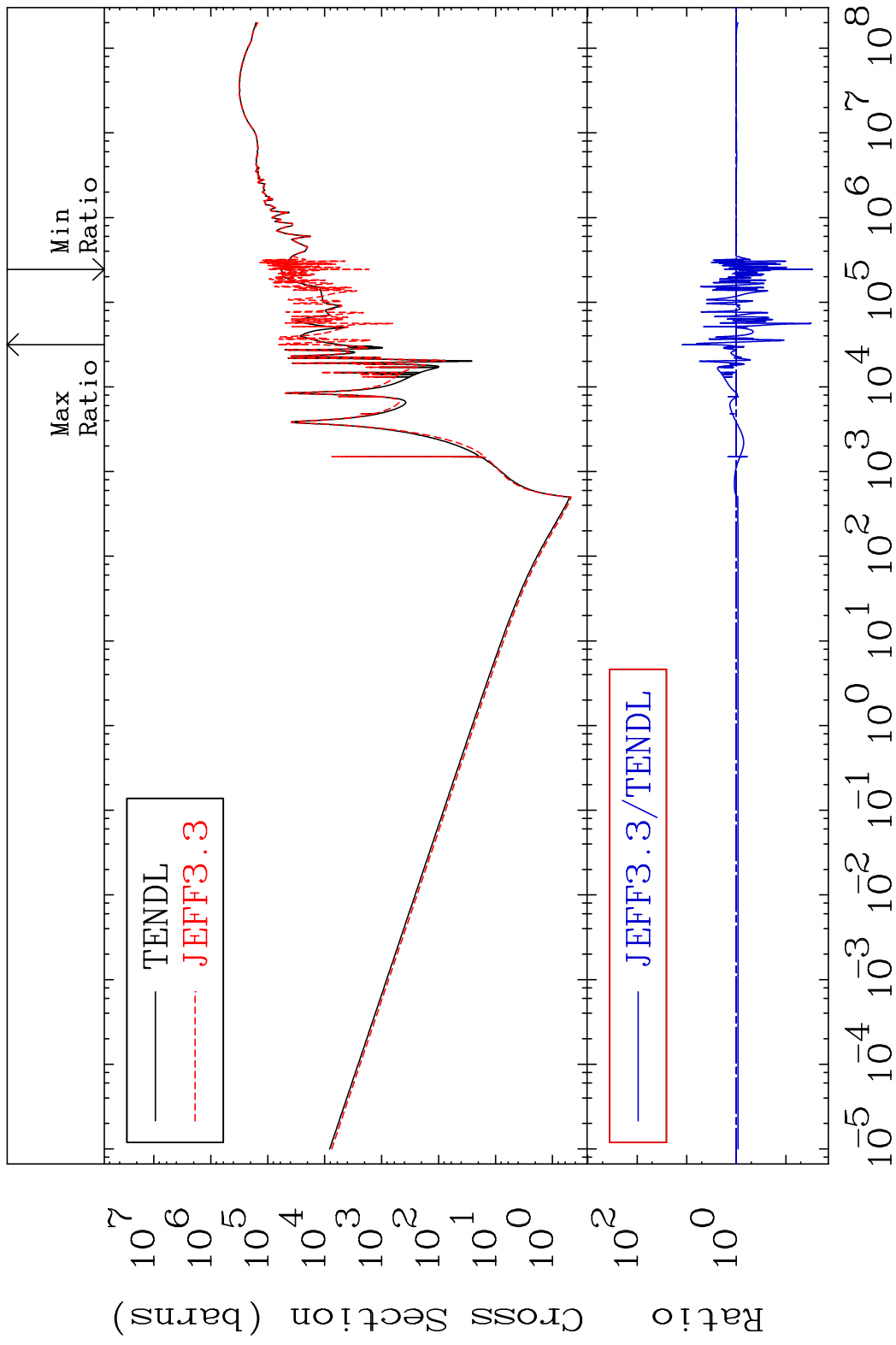
71 Incident Energy (eV) 22-Ti-49

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



72 Incident Energy (eV) 22-Ti-49

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



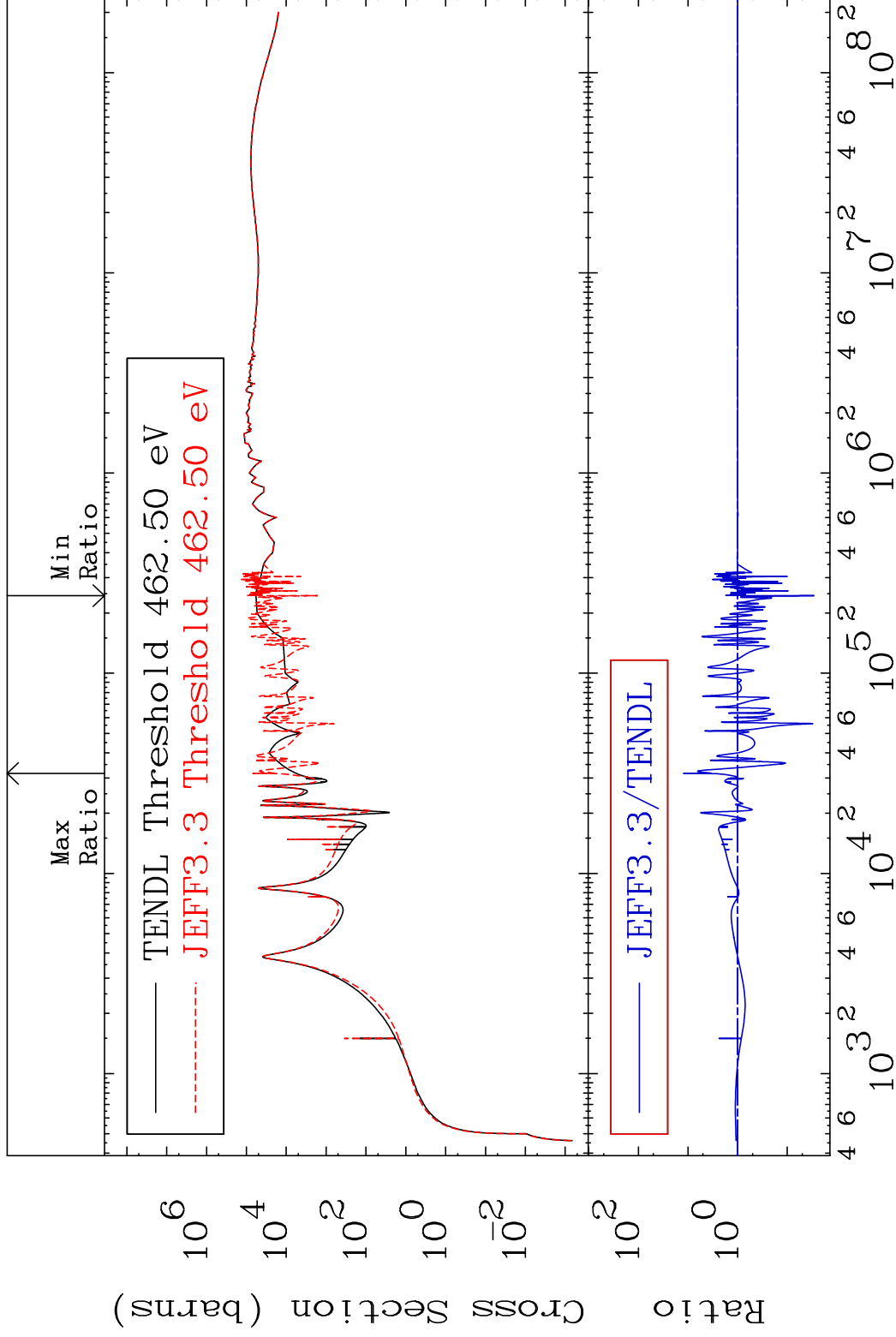
73 Incident Energy (eV) ²²Ti-49

MAT 2234

Dpa elastic (mt2)

22-Ti-49

Cross Section -97.12 To 1123. %

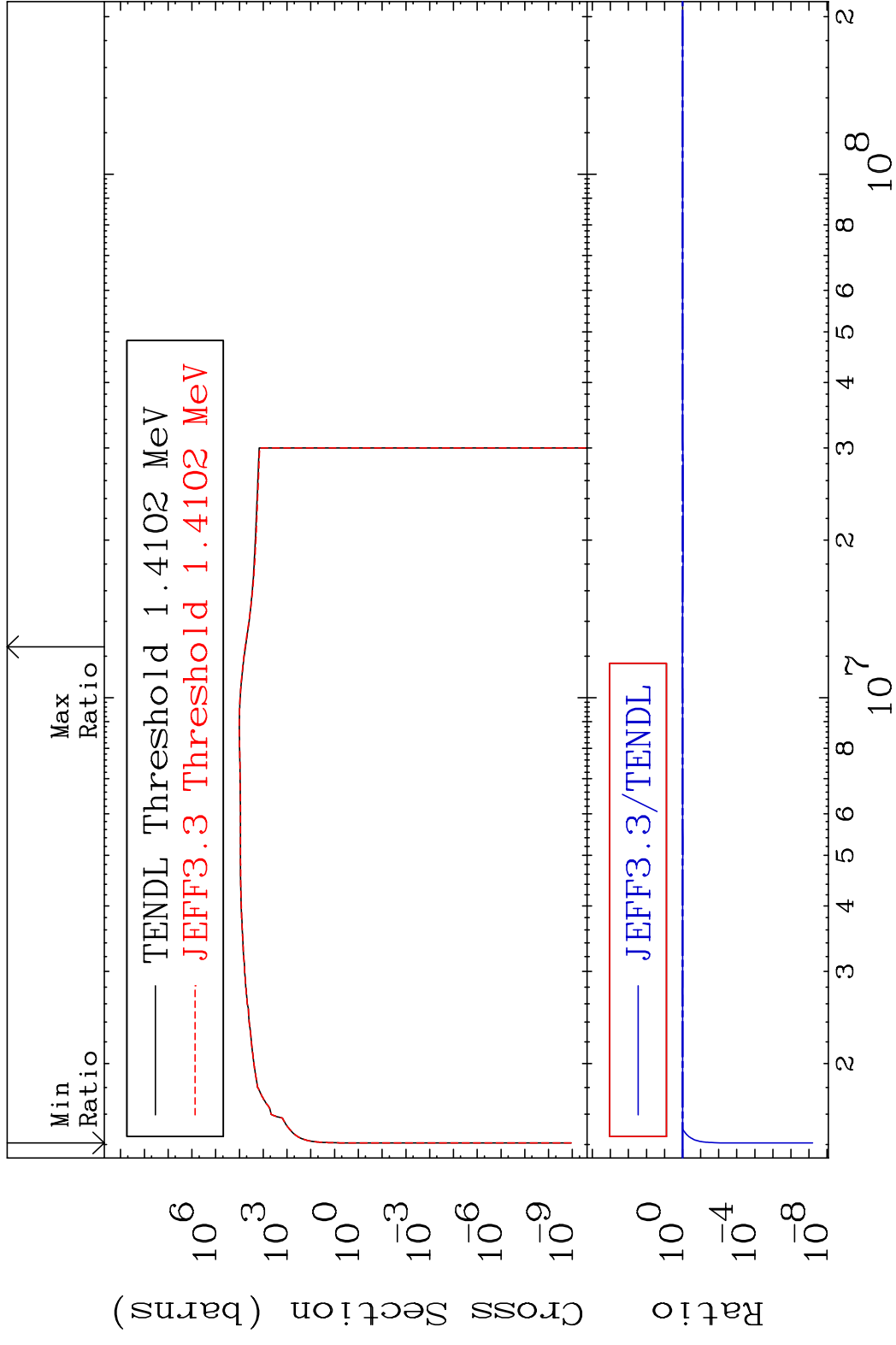


74

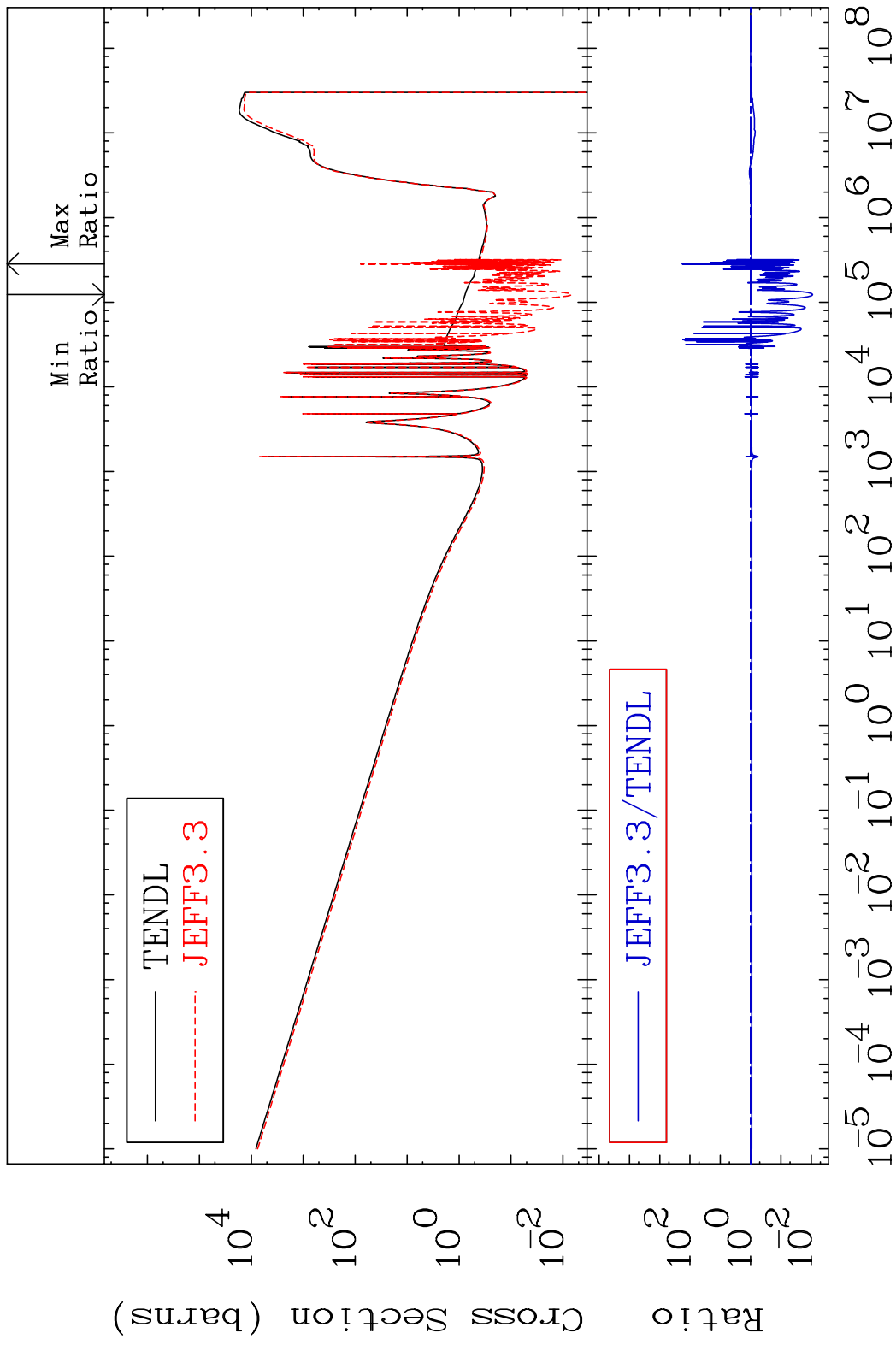
Incident Energy (eV)

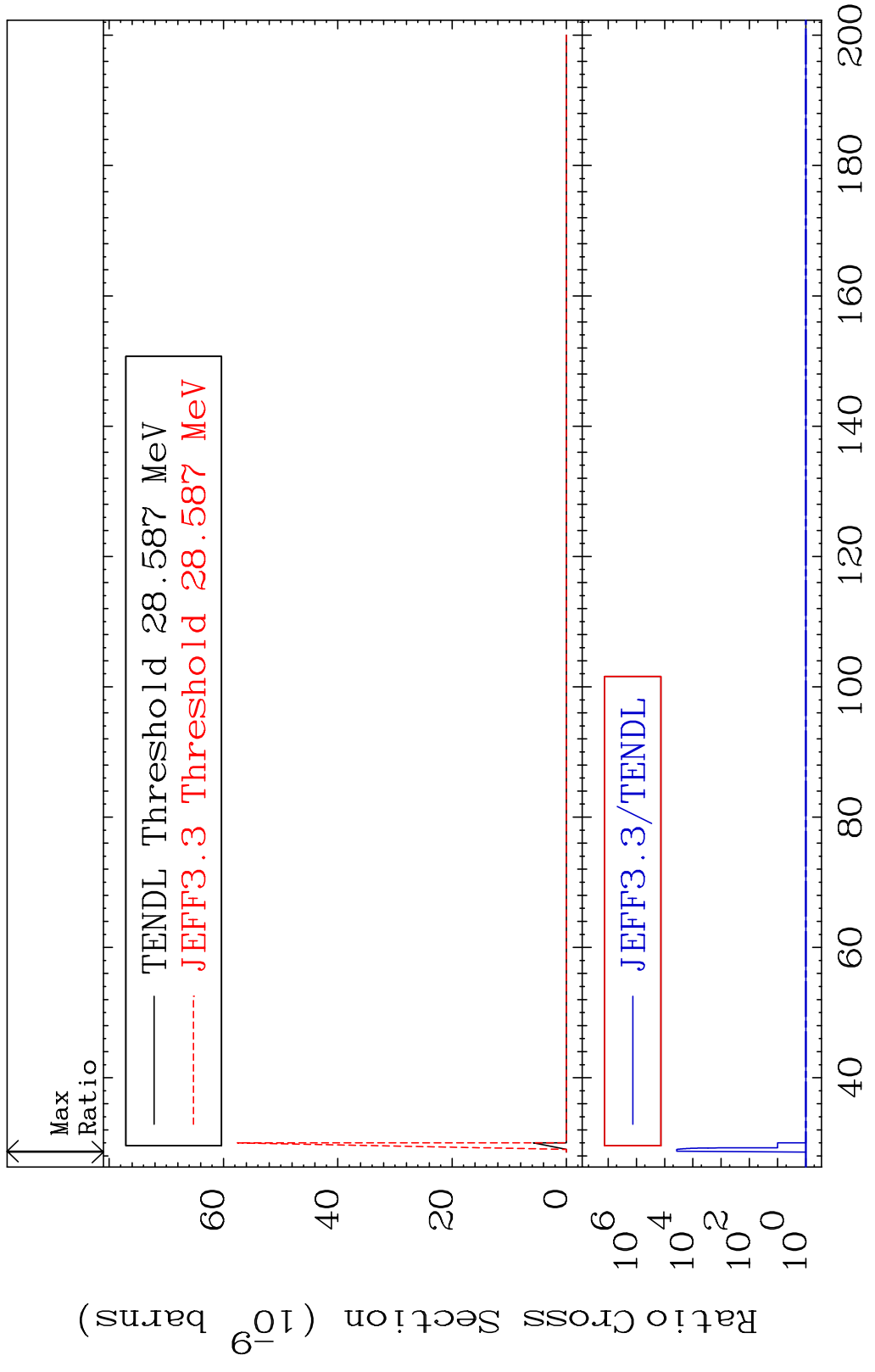
22-Ti-49

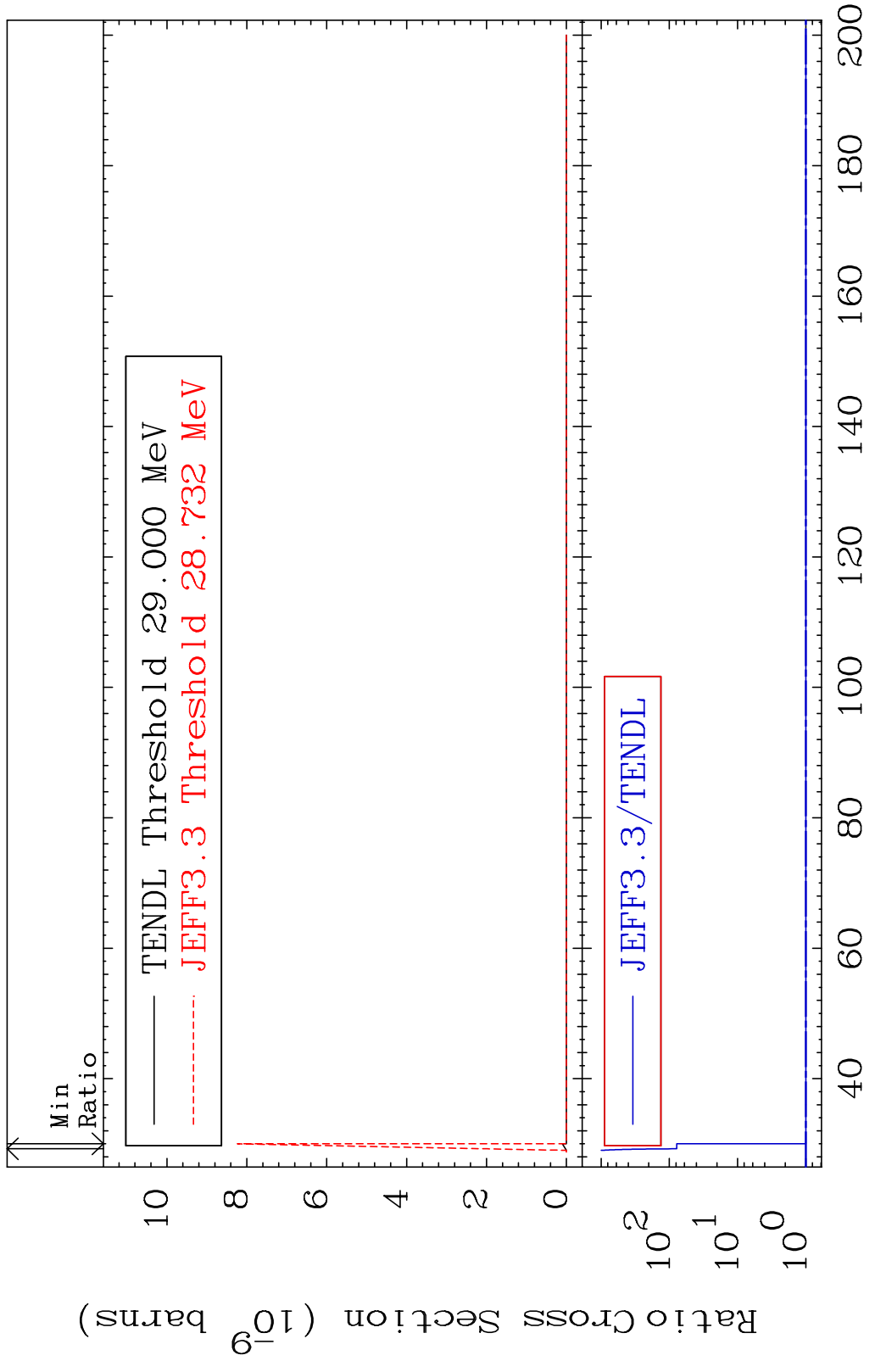
MAT 2234 Dpa inelastic (mt51-91) 22-Ti-49
 Cross Section -100.0 To 3.093 %



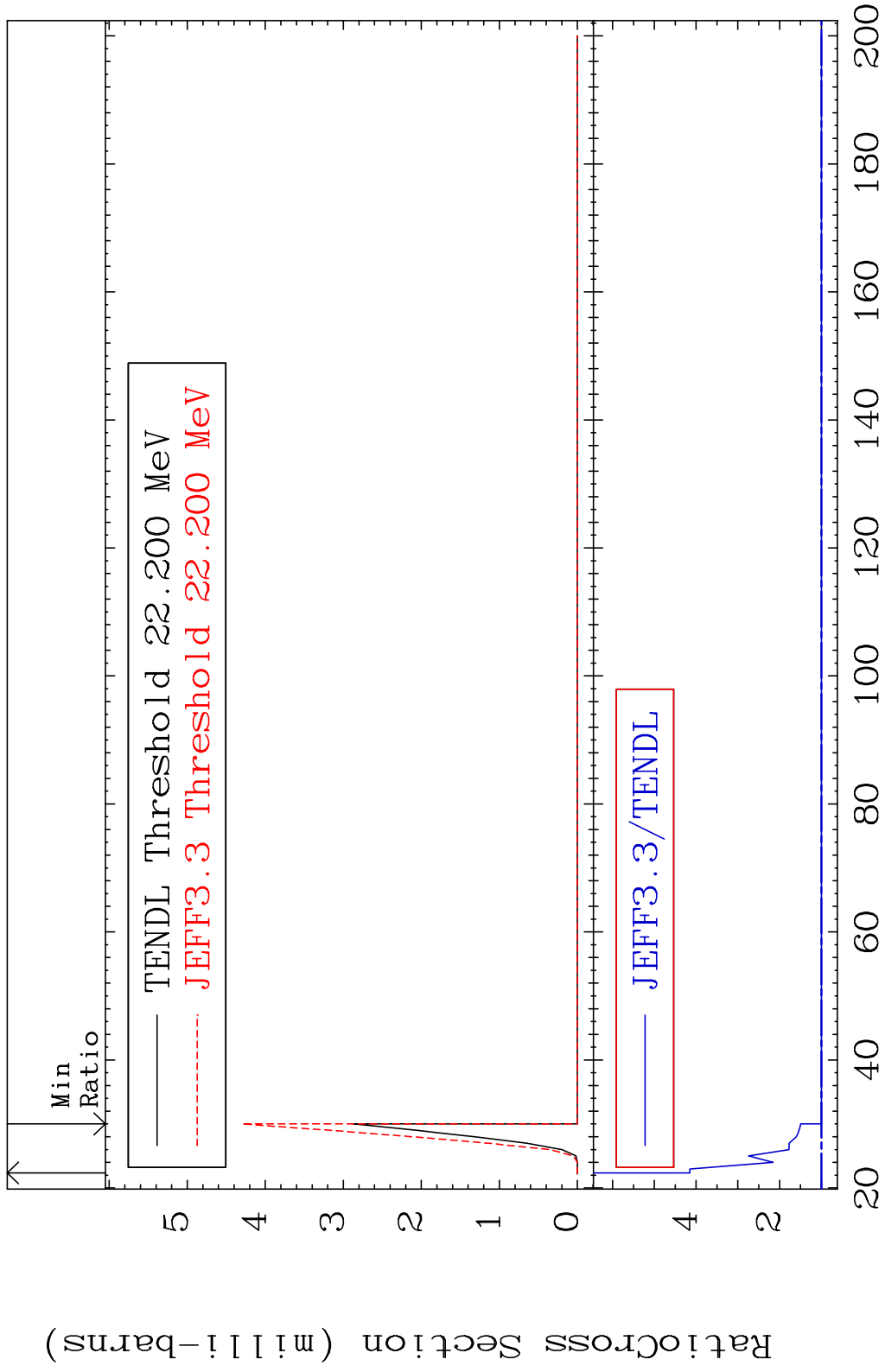
MAT 2234 Dpa disappearance (mt102 -120) 22-Ti-49
 Cross Section -99.09 To 9999. %





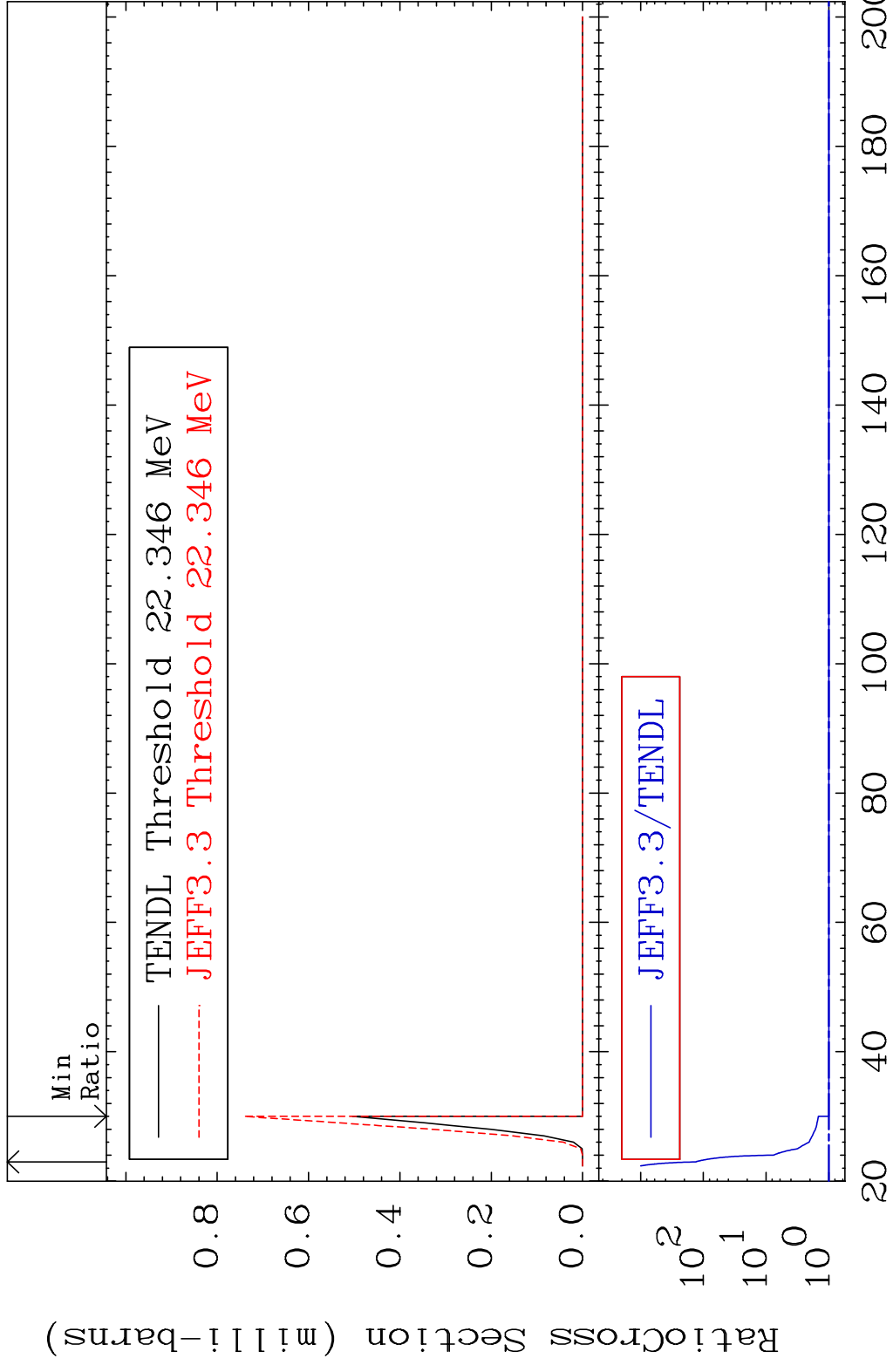


MAT 2234 (n, n') t:21-Sc-46g 22-Ti-49
 Radionuclide Production Cross Section 315.1 %



79 Incident Energy (MeV) 22-Ti-49

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



80 Incident Energy (MeV) 22-Ti-49