

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

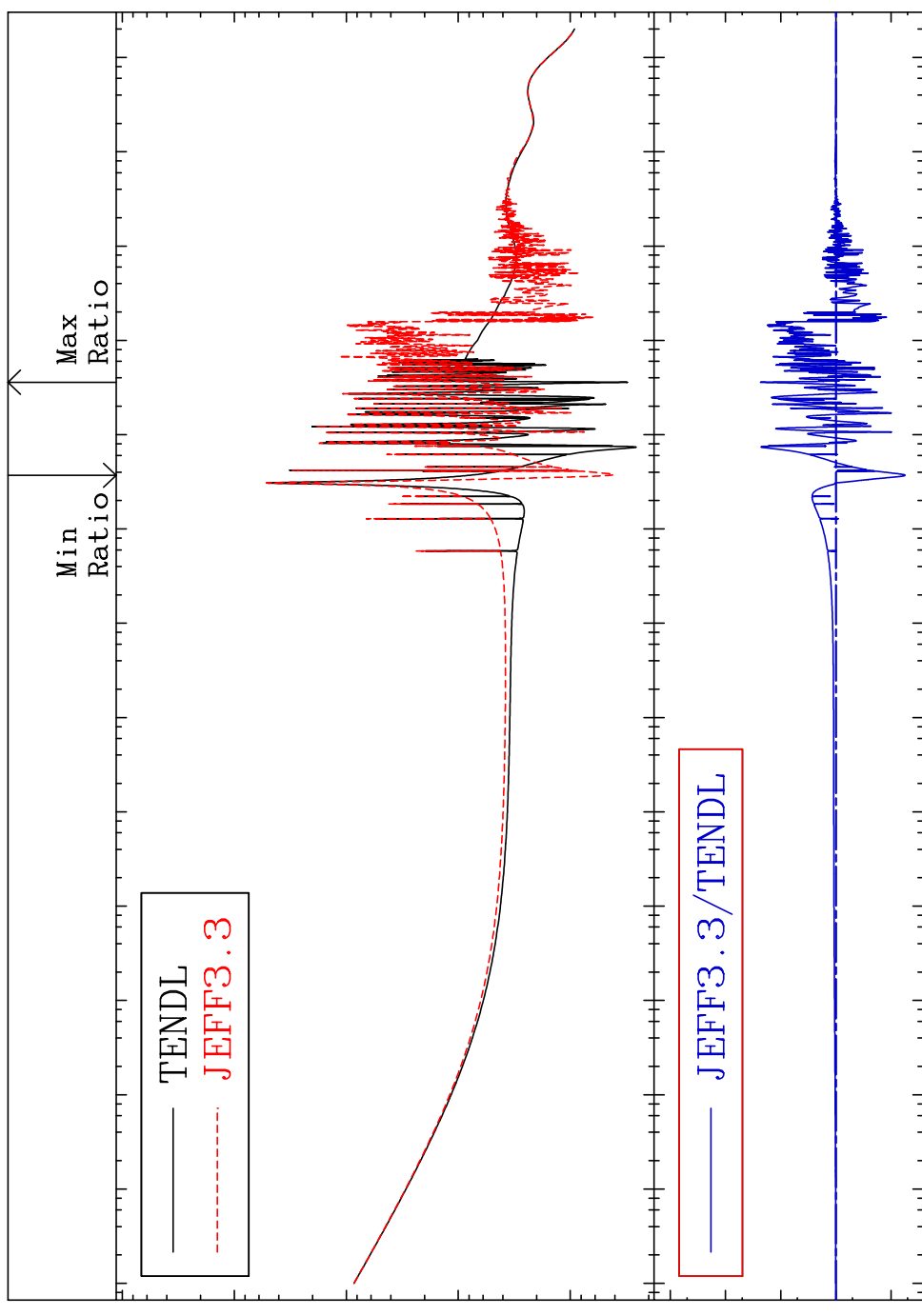
MAT 2228

Total

22-Ti-47

Cross Section

-94.48 To 2254. %



Cross Section (barns)

Ratio

10³
10²
10¹
10⁰
10²
10⁰

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

1

Incident Energy (eV)

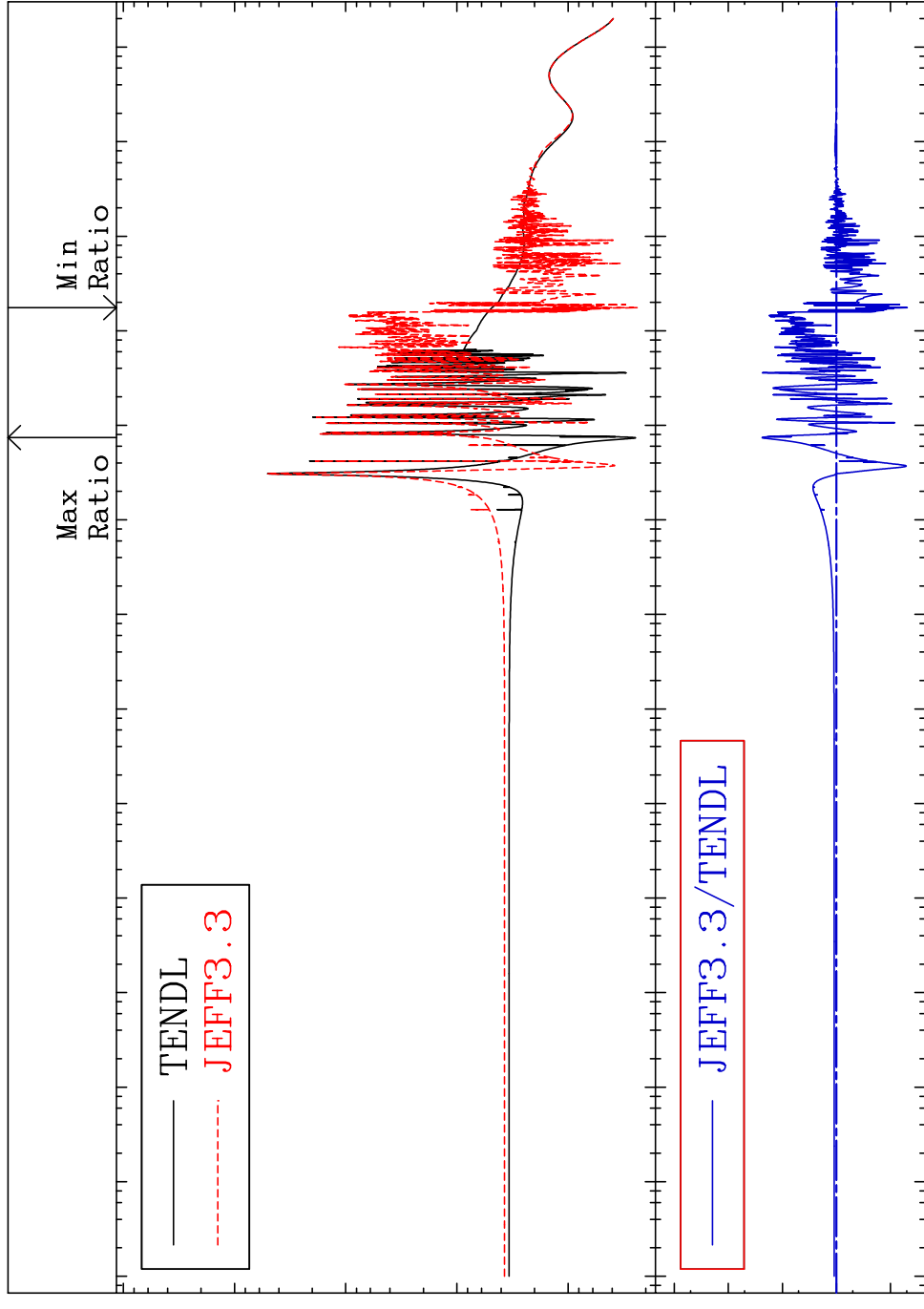
22-Ti-47

MAT 2228

Elastic

22-Ti-47

Cross Section -95.11 To 2302. %



10³
10²
10¹
10⁰
Ratio
10²
10⁰

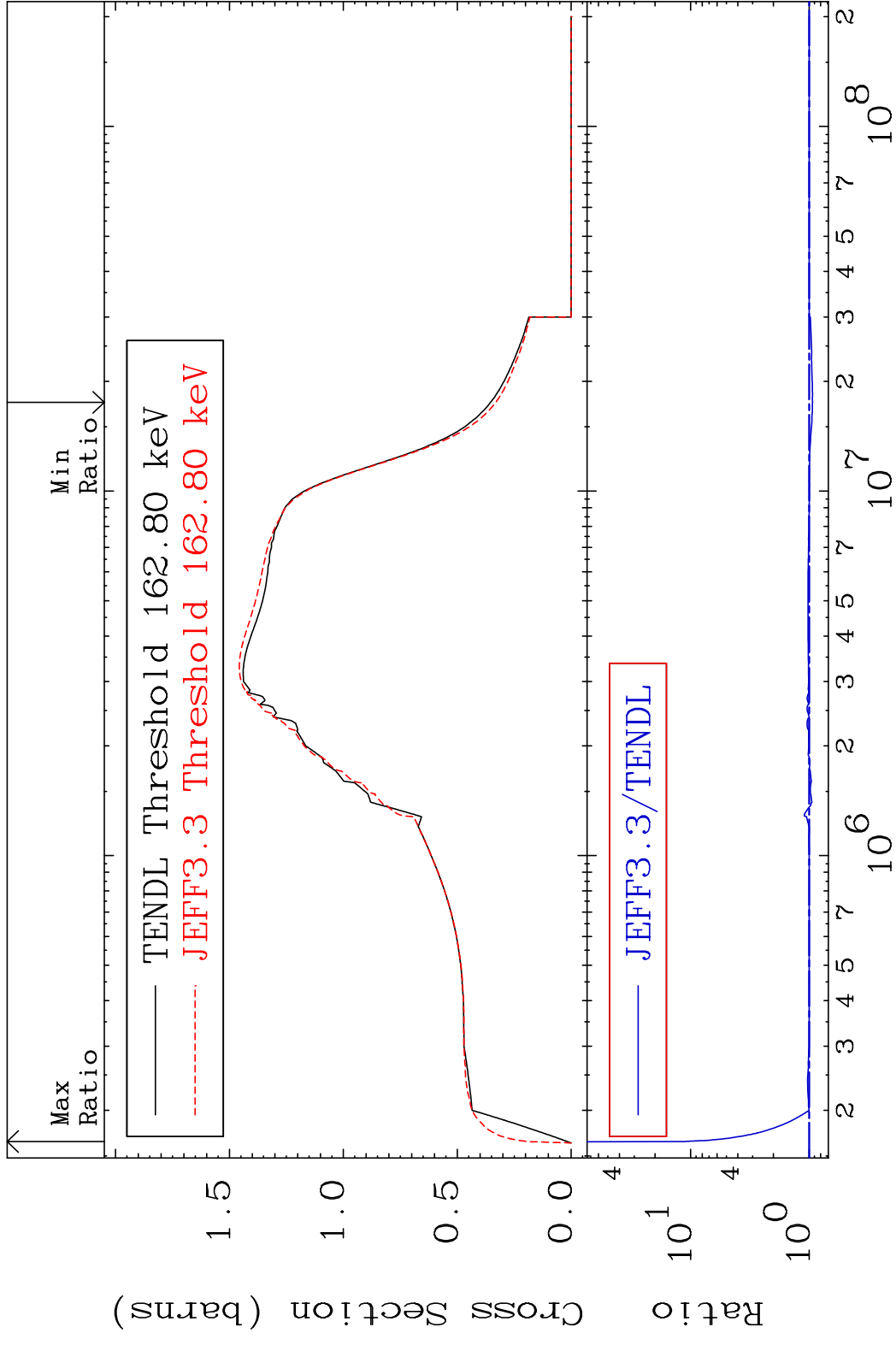
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Incident Energy (eV)

22-Ti-47

2

MAT 2228 Inelastic 22-Ti-47
 Cross Section -6.477 To 1076. %

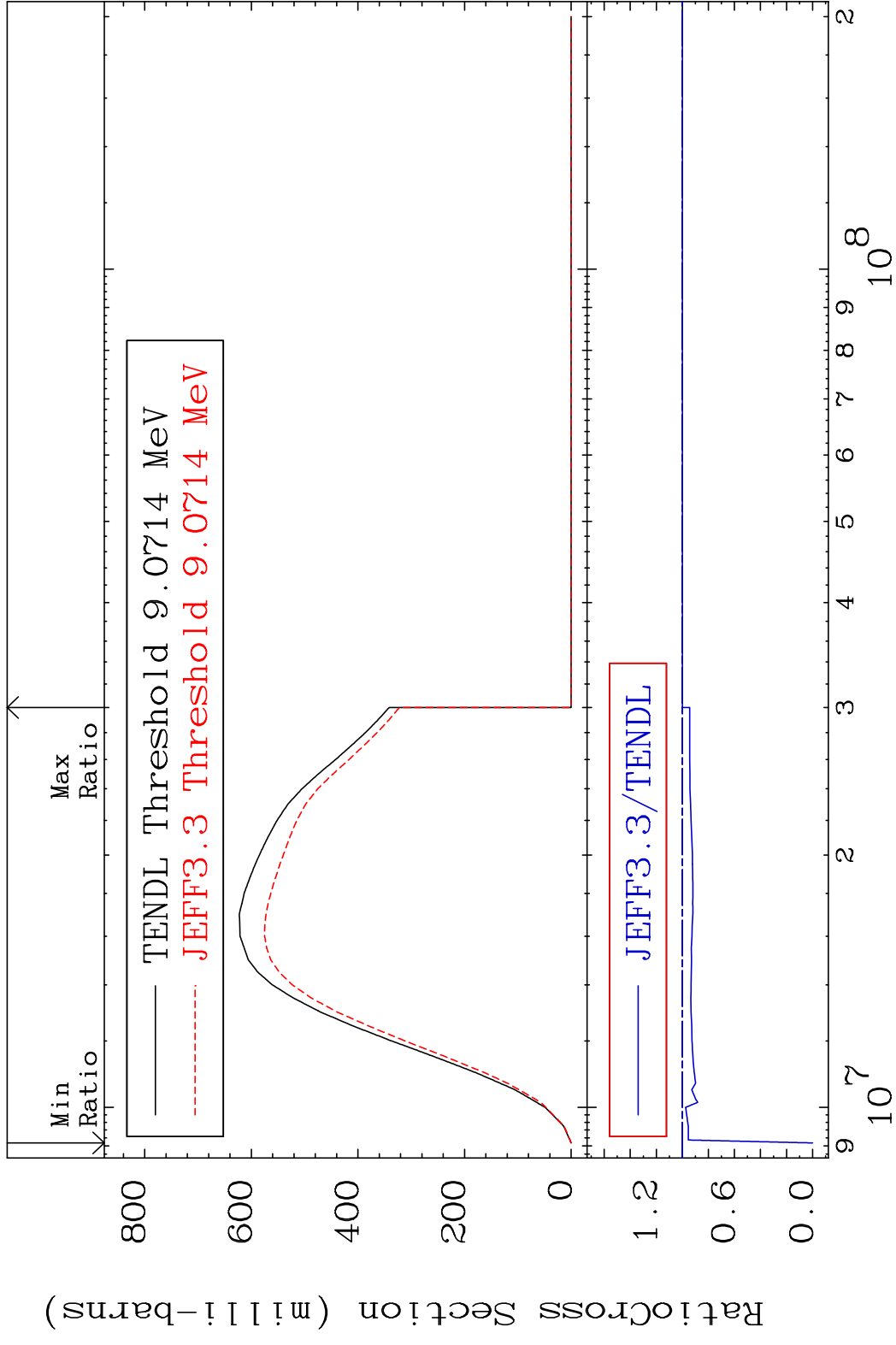


MAT 2228

(n,2n)

²²Ti-47

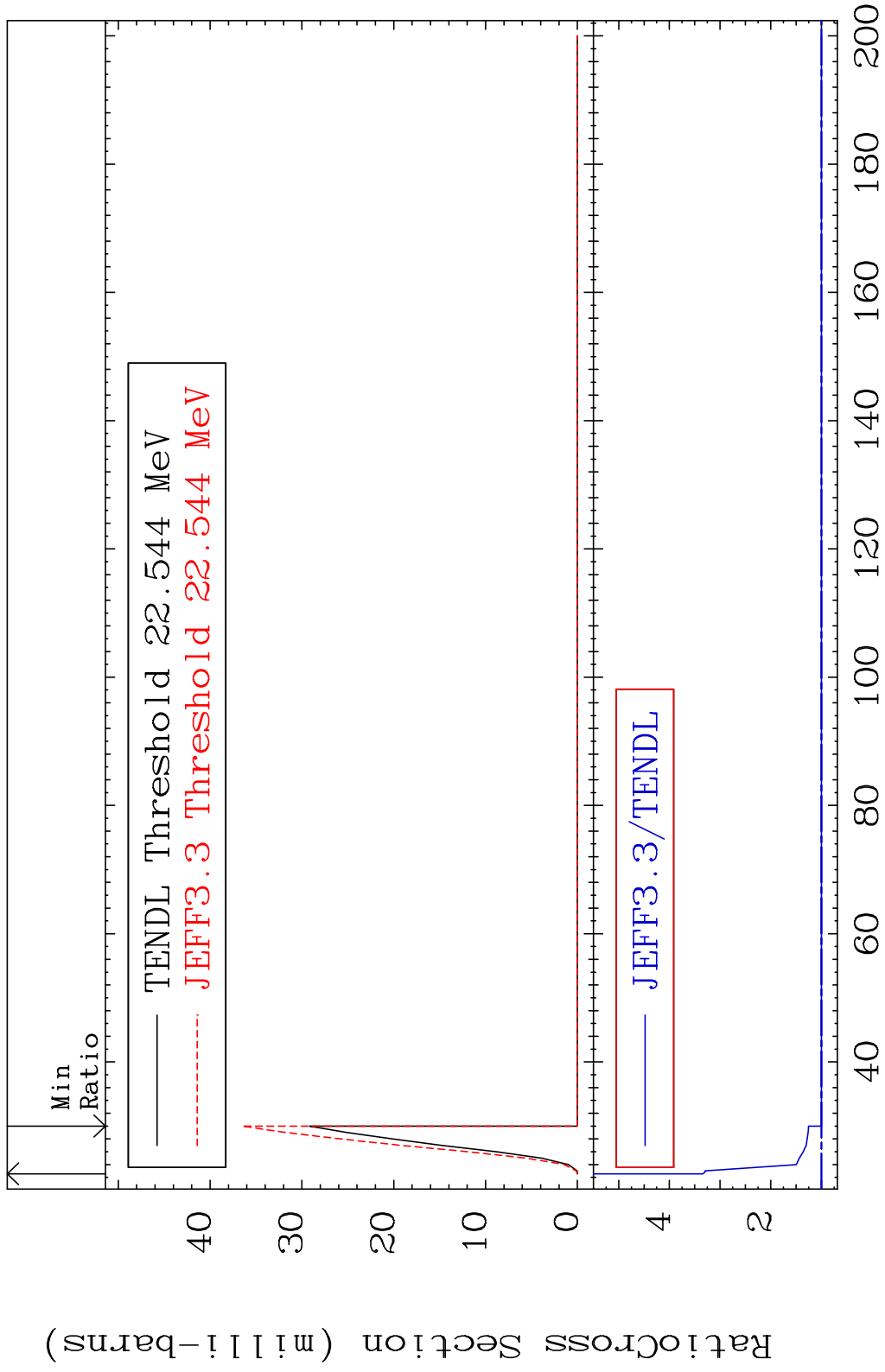
Cross Section -100.0 To 0.000 %



Incident Energy (eV)

²²Ti-47

MAT 2228 (n,3n) 22-Ti-47
 Cross Section 0.000 To 259.8 %



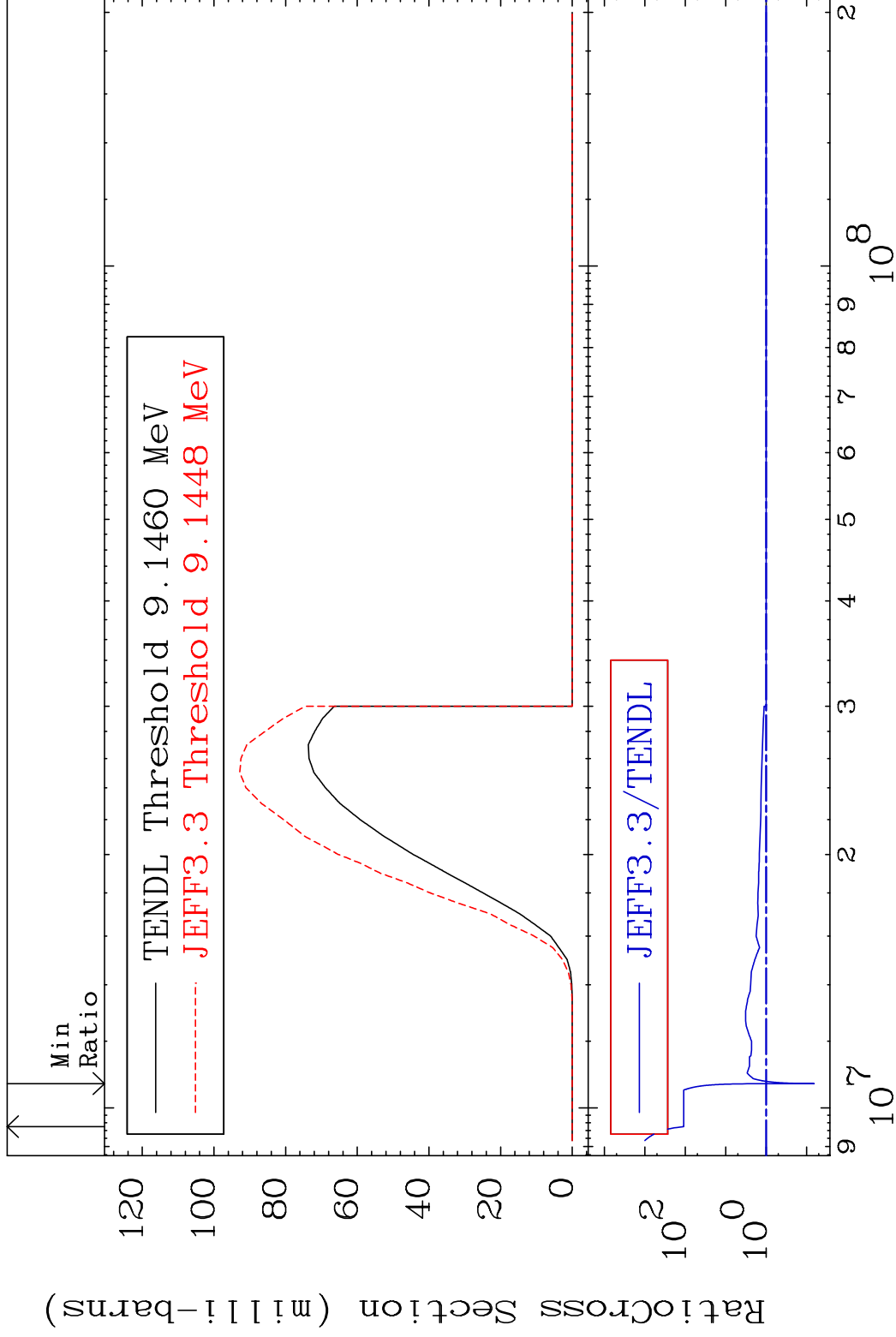
5 22-Ti-47

MAT 2228

(n, n') α

22-Ti-47

Cross Section -93.51 To 9999. %

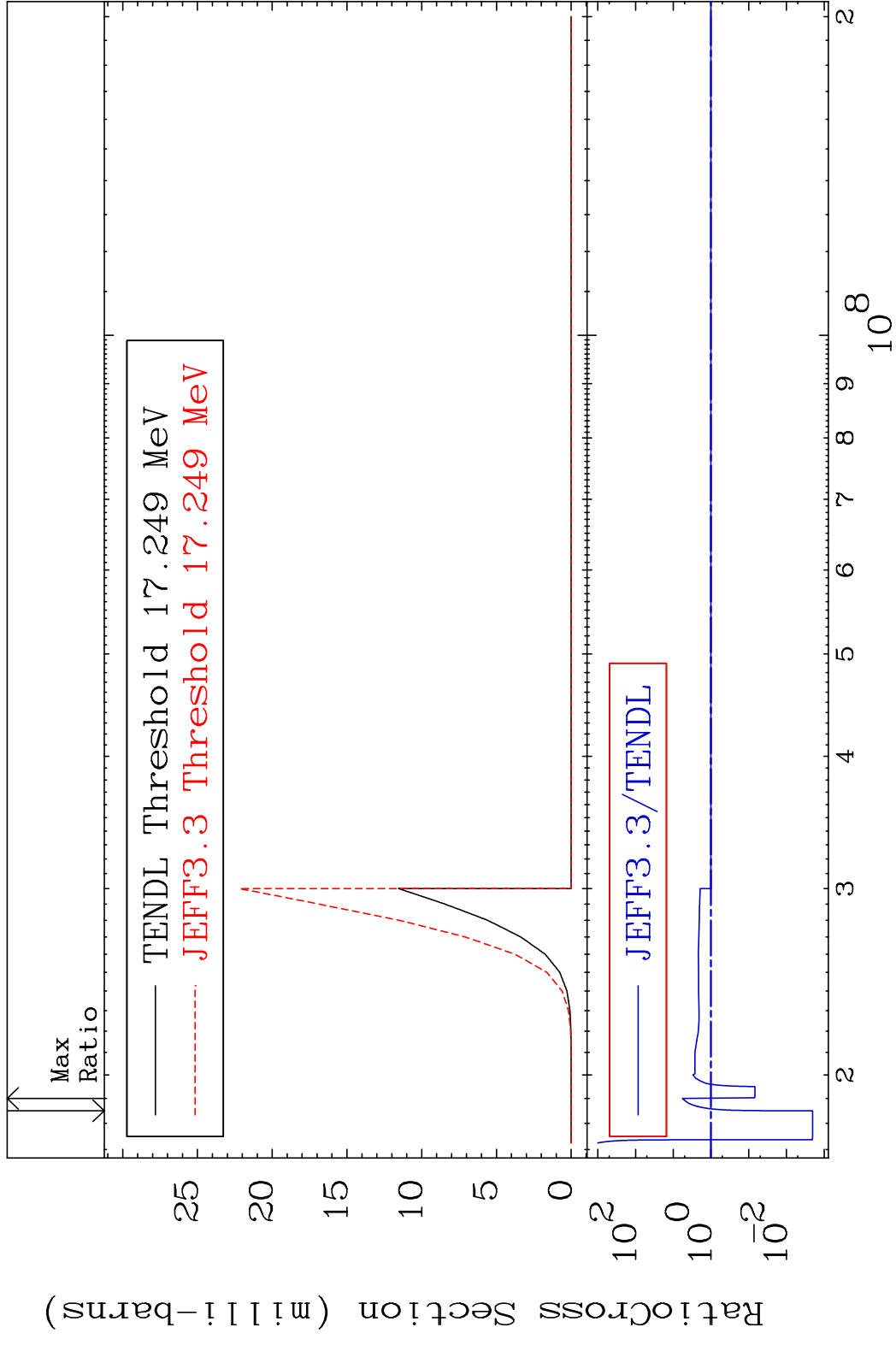


6

Incident Energy (eV)

22-Ti-47

MAT 2228 (n,2n) α $^{22}\text{Ti-47}$
 Cross Section -99.80 To 473.7 %

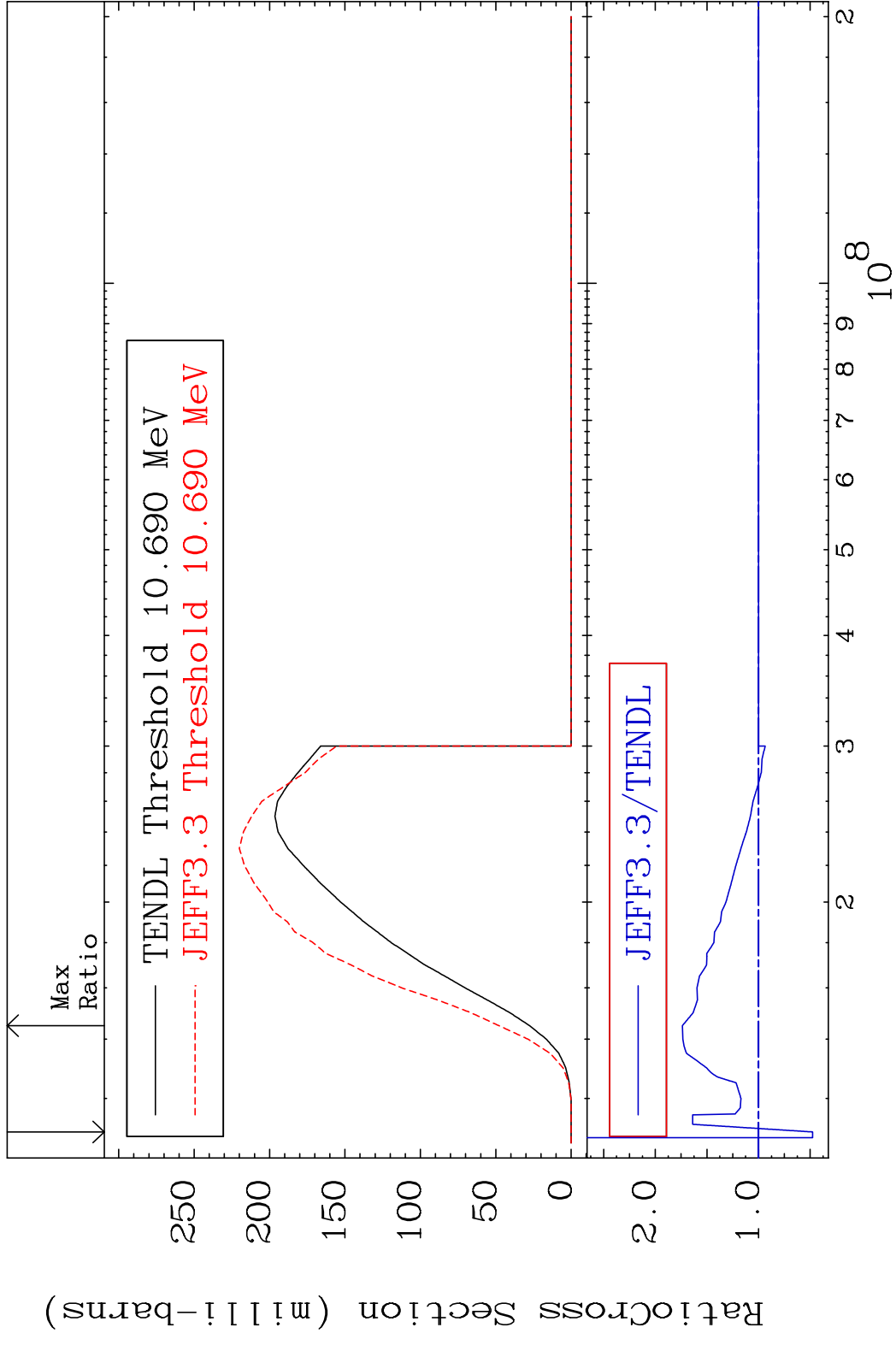


MAT 2228

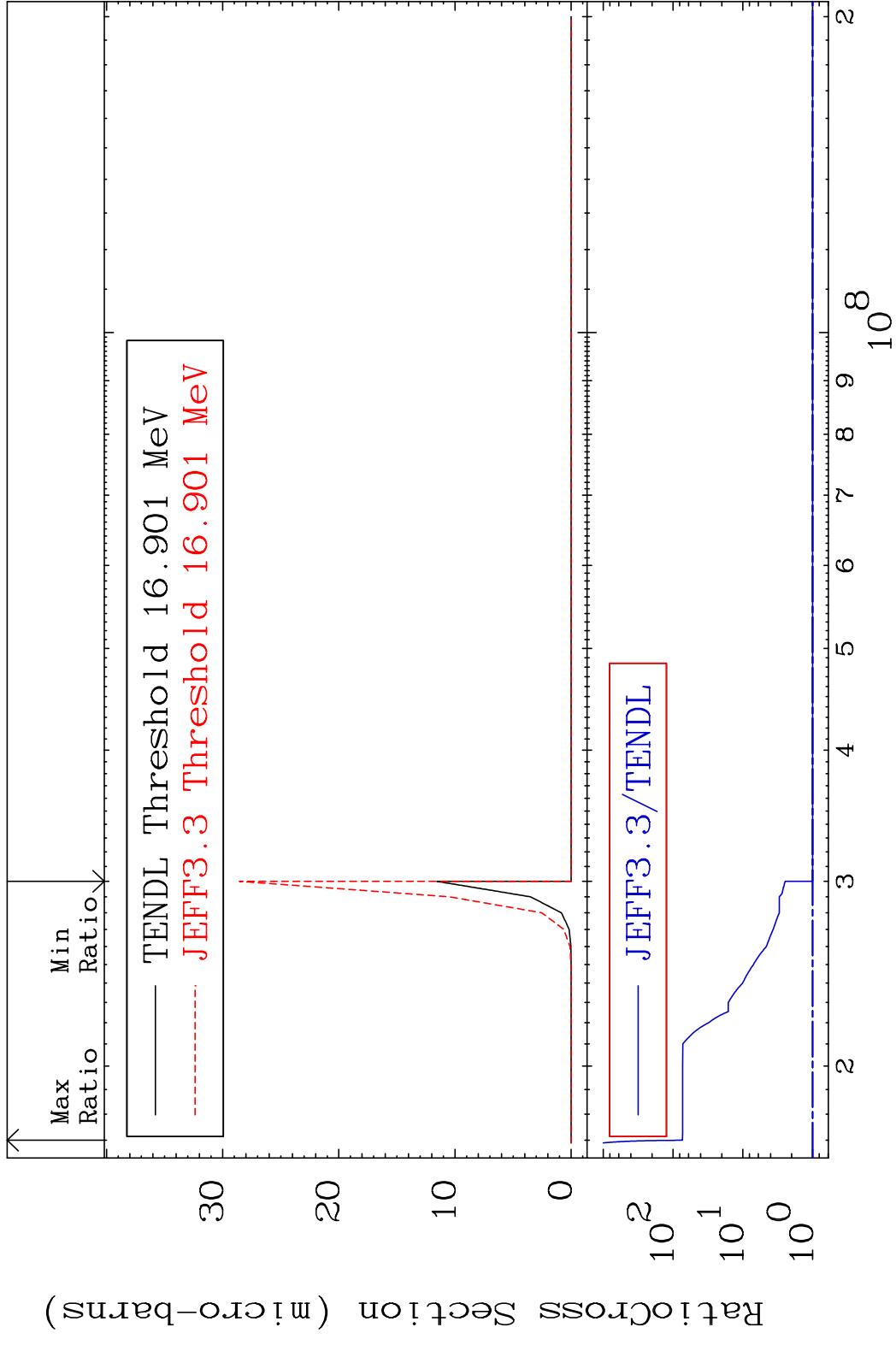
(n, n') p

²²Ti-47

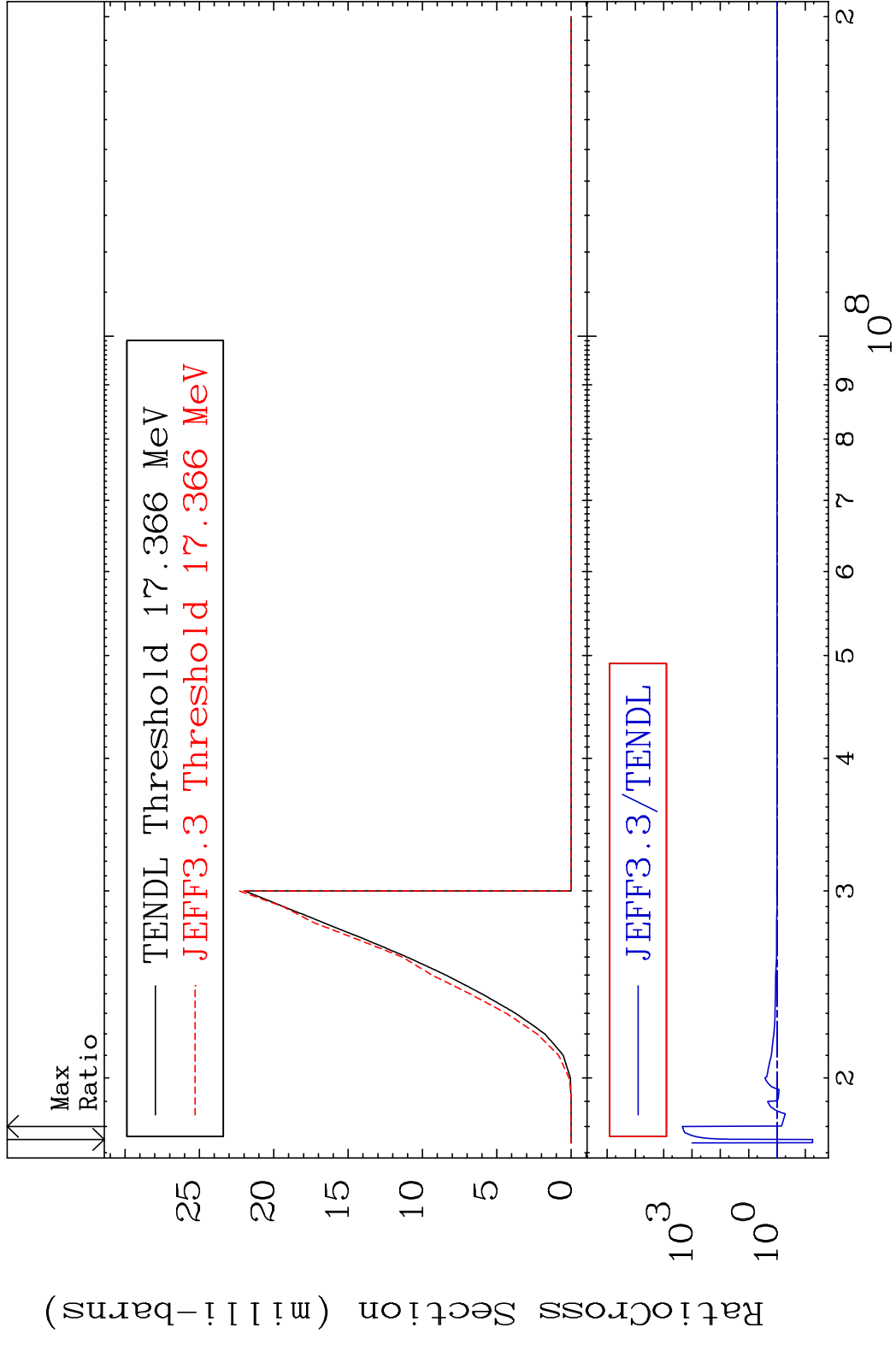
Cross Section -52.30 To 73.79 %



MAT 2228 (n, n') 2α 22-Ti-47
 Cross Section 0.000 To 7238. %

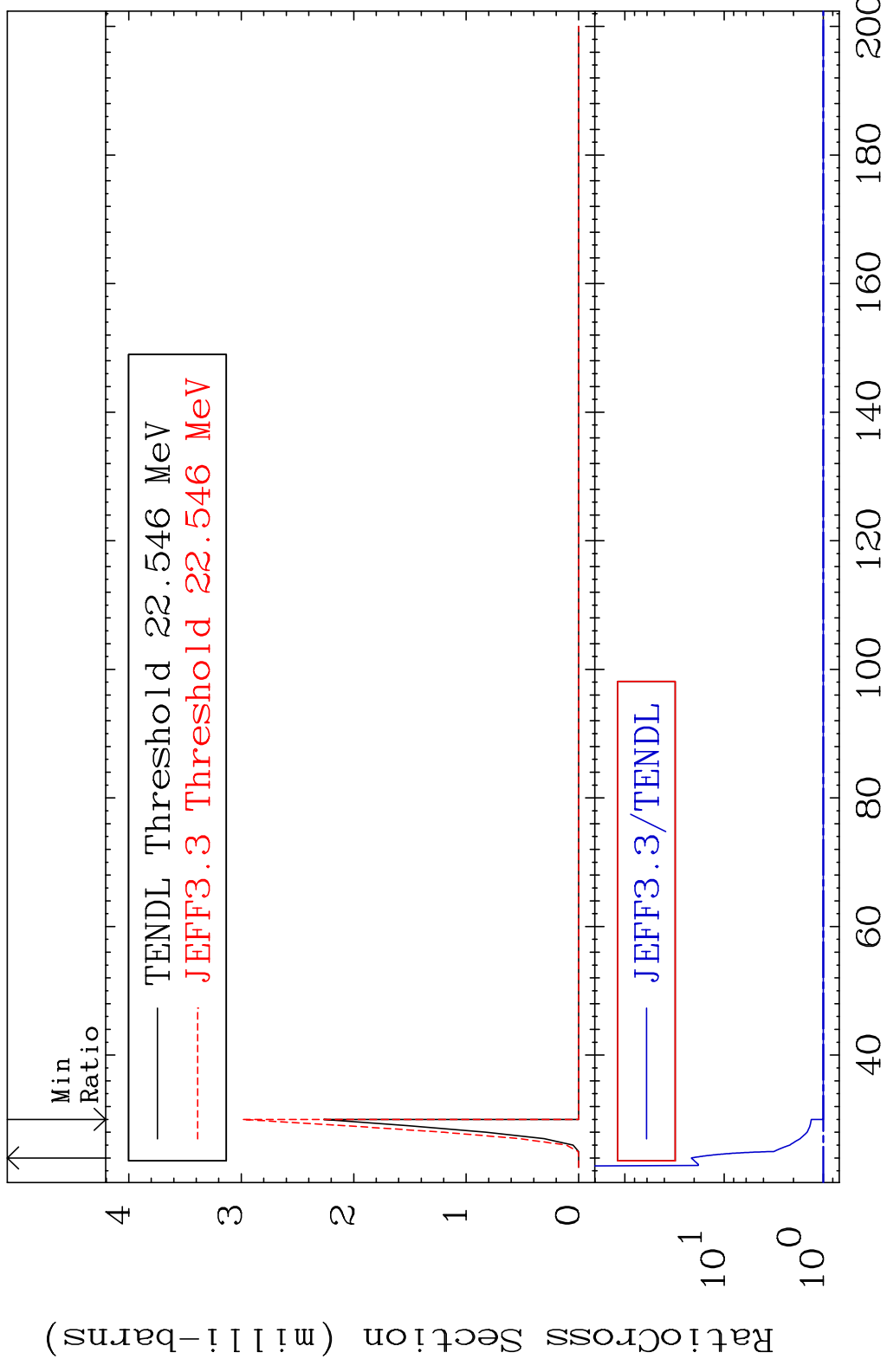


MAT 2228 (n, n') d 22-Ti-47
 Cross Section -94.45 To 9999. %



10 Incident Energy (eV) 22-Ti-47

MAT 2228 (n, n') t 22-Ti-47
 Cross Section 0.000 To 2039. %

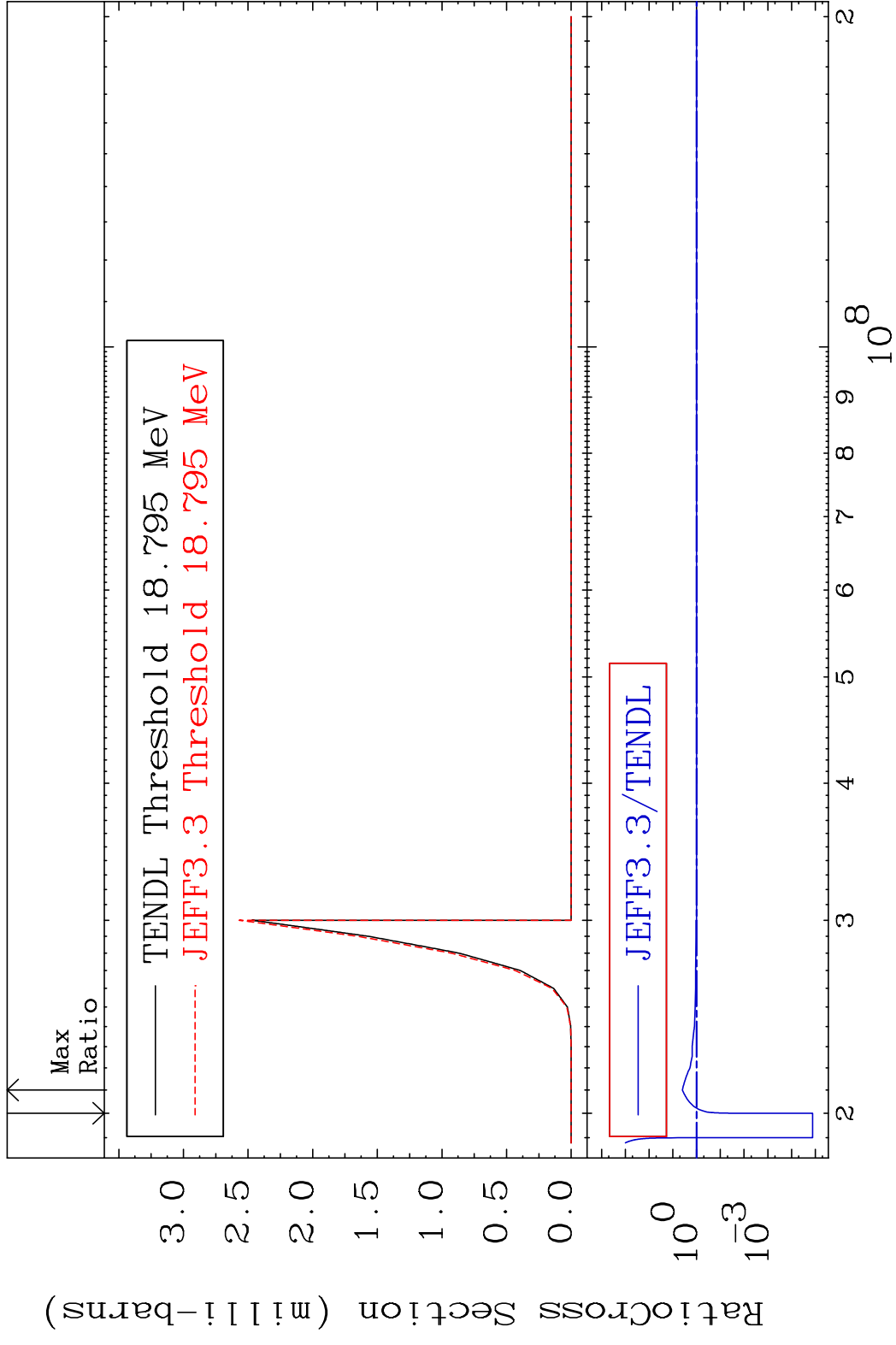


MAT 2228

(n,n') He-3

22-Ti-47

Cross Section -100.0 To 296.9 %

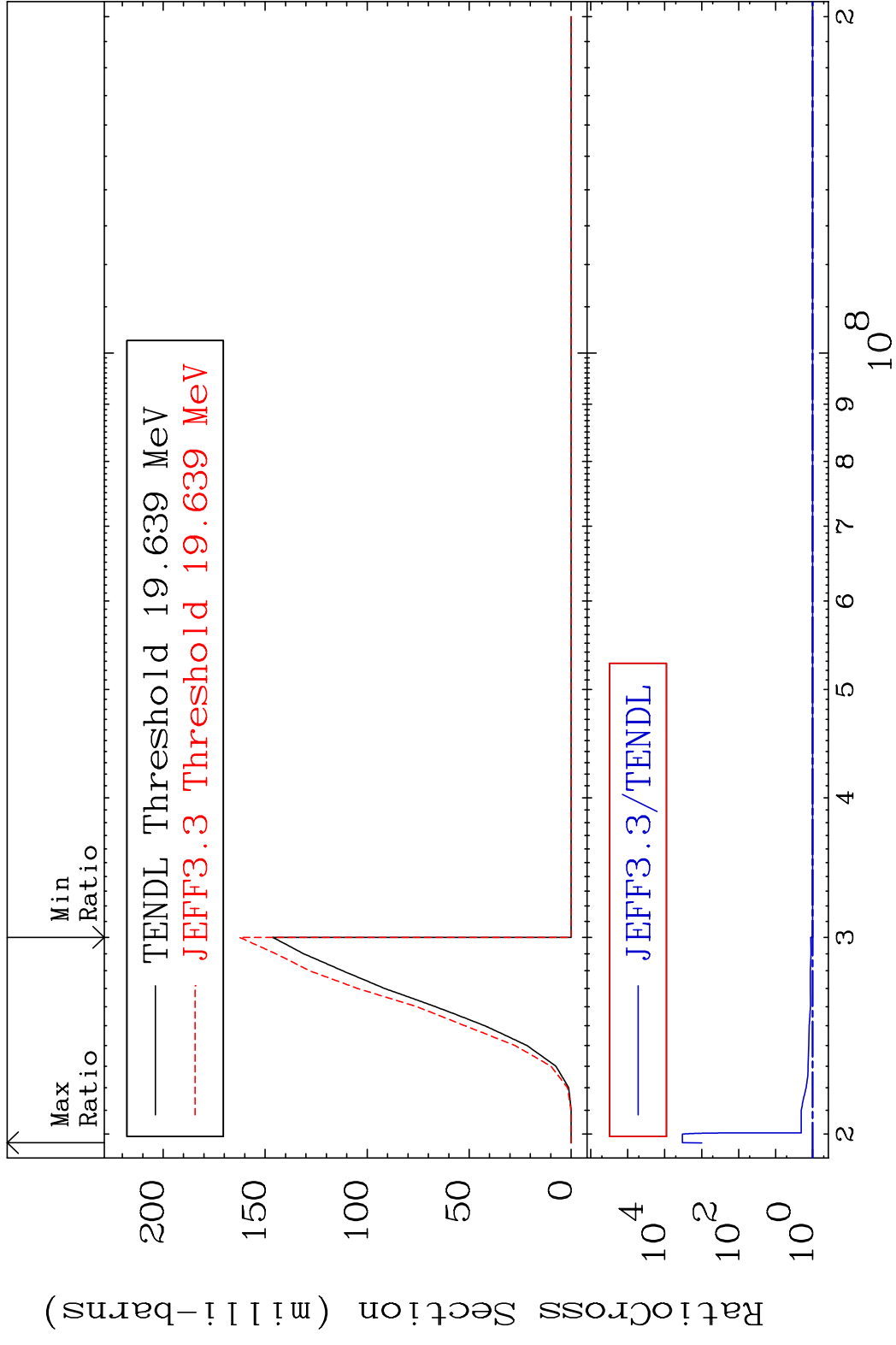


12

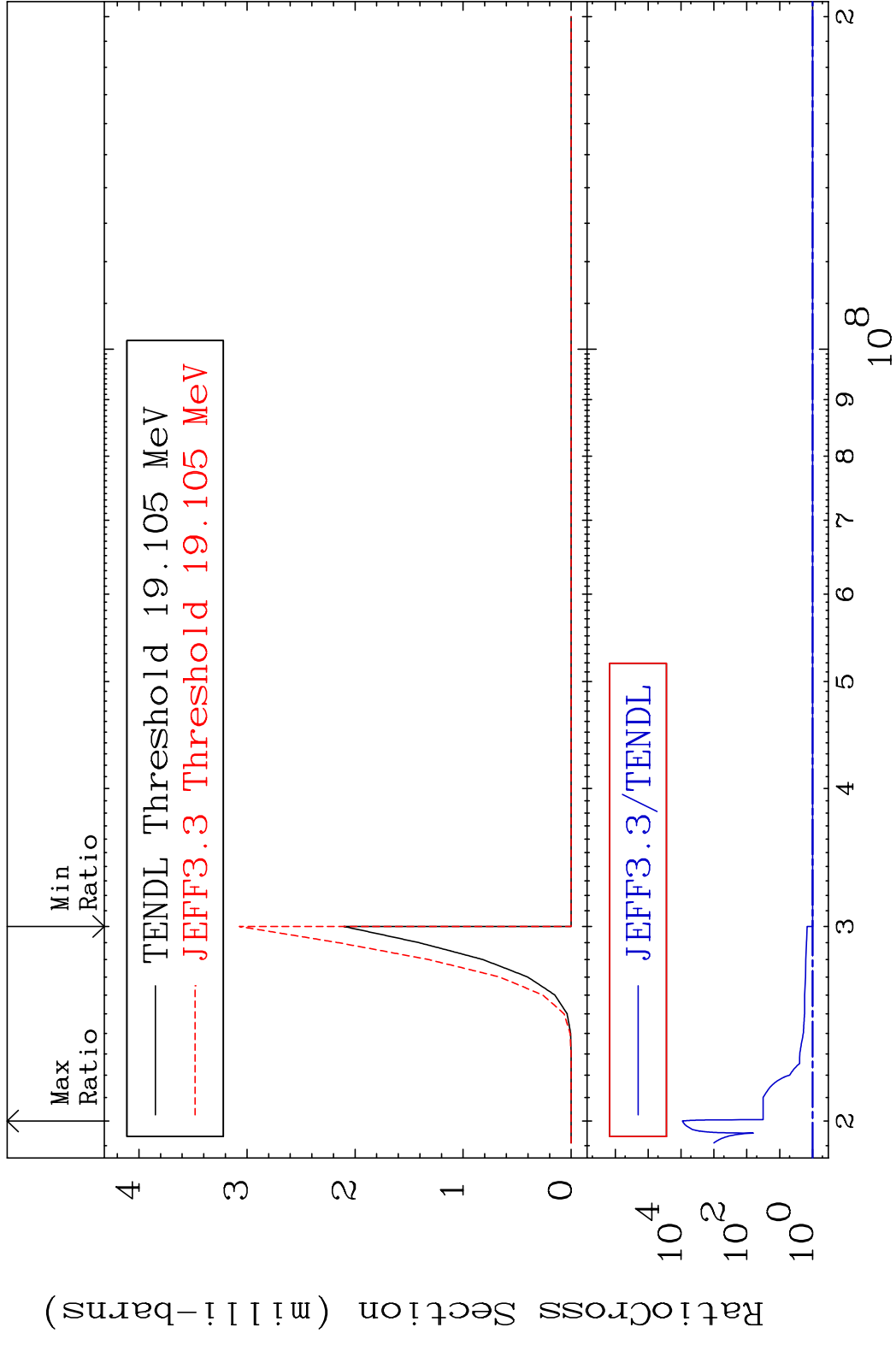
Incident Energy (eV)

22-Ti-47

MAT 2228 (n,2n) p 22-Ti-47
 Cross Section 0.000 To 9999. %



MAT 2228 (n,2n) p 22-Ti-47
 Cross Section 0.000 To 9999. %

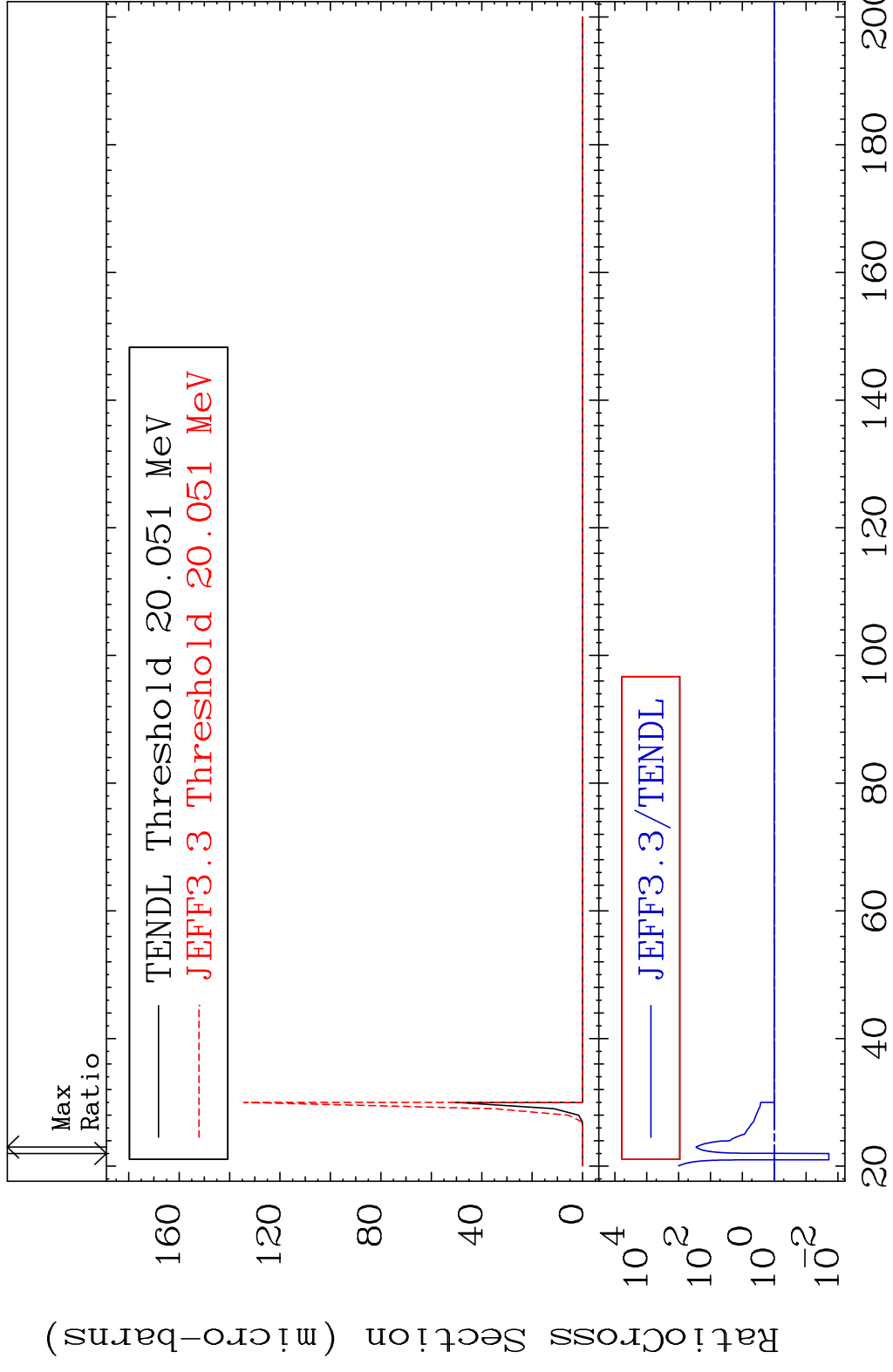


MAT 2228

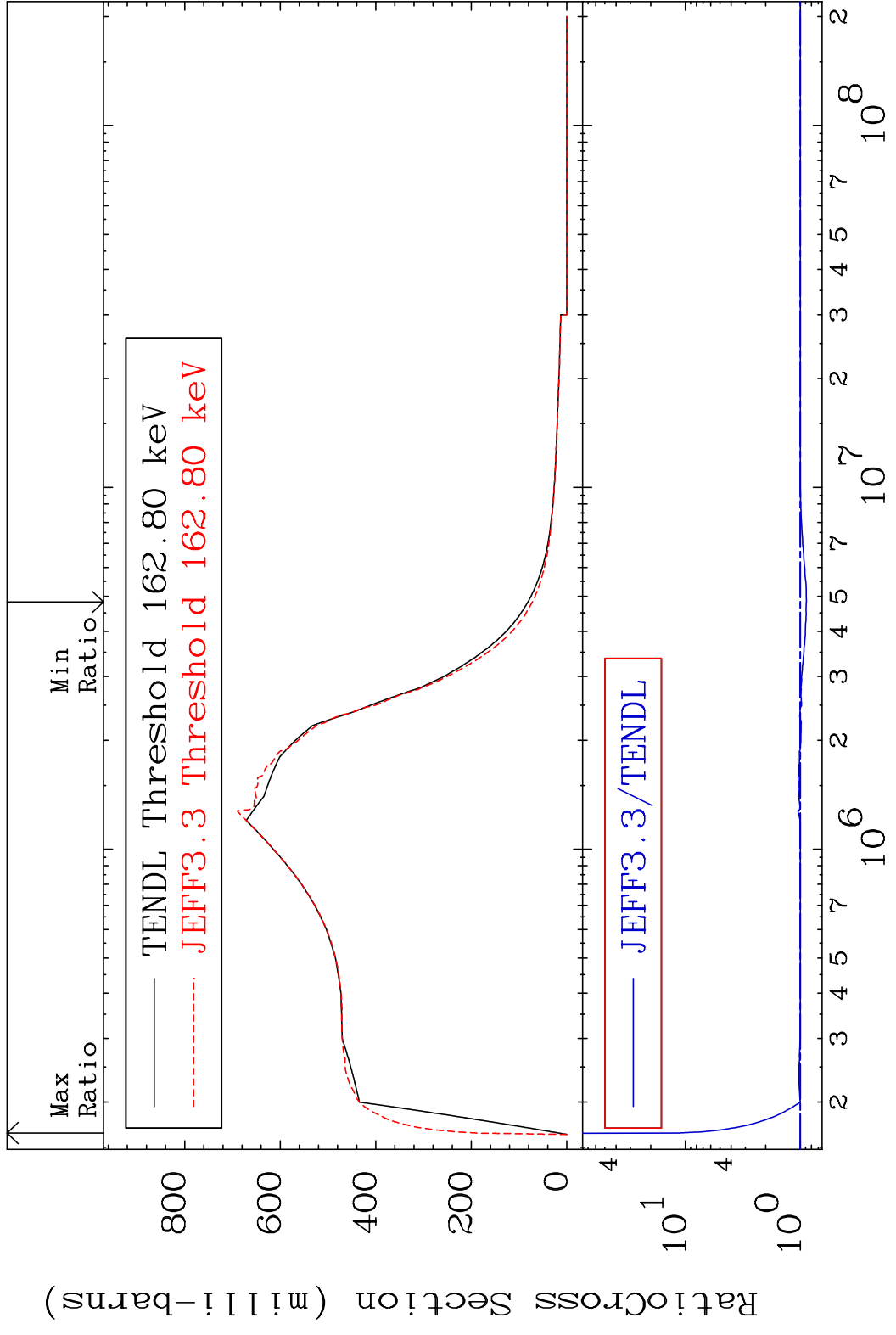
(n,n') p α

22-Ti-47

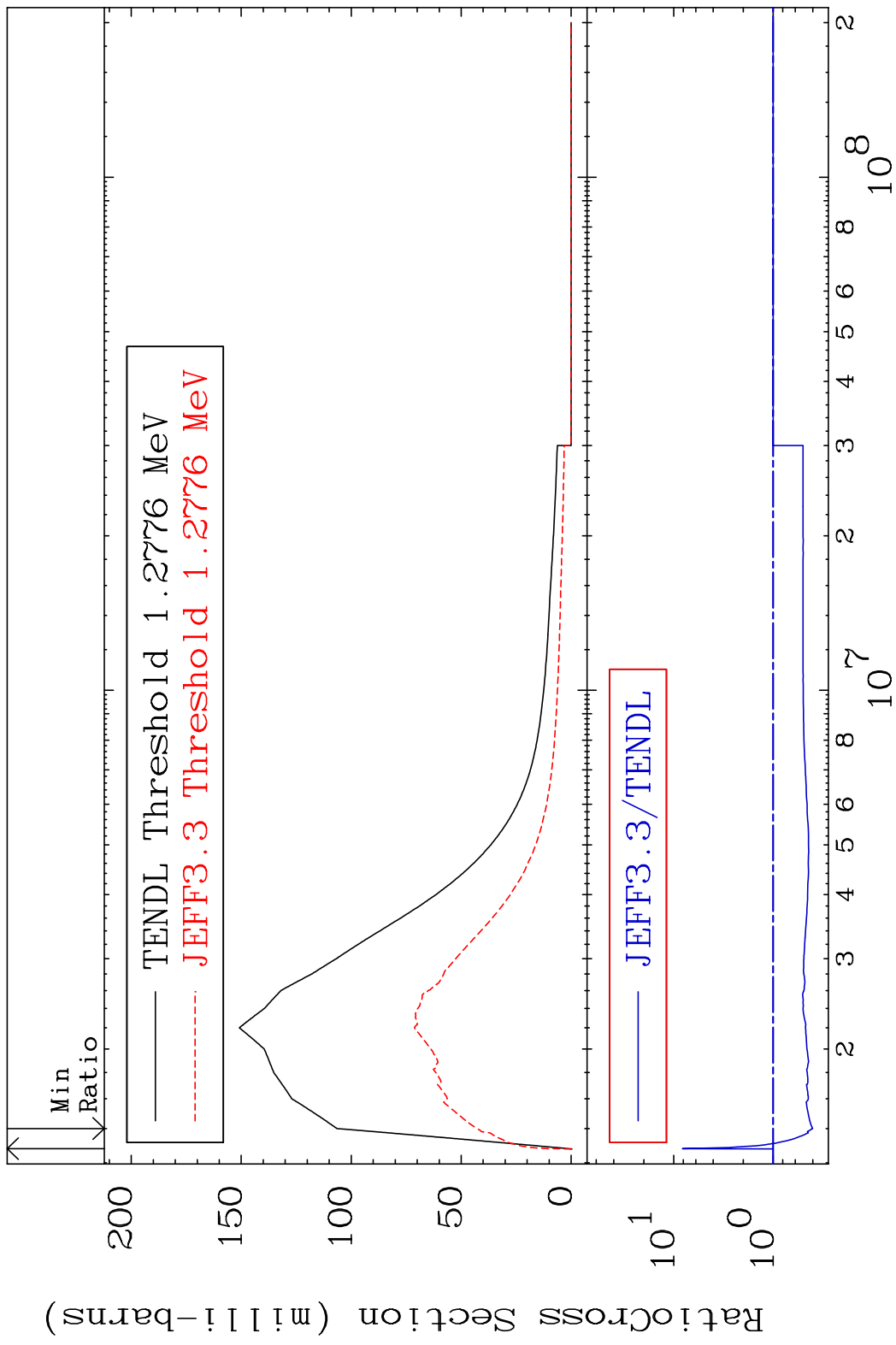
Cross Section -98.06 To 9999. %



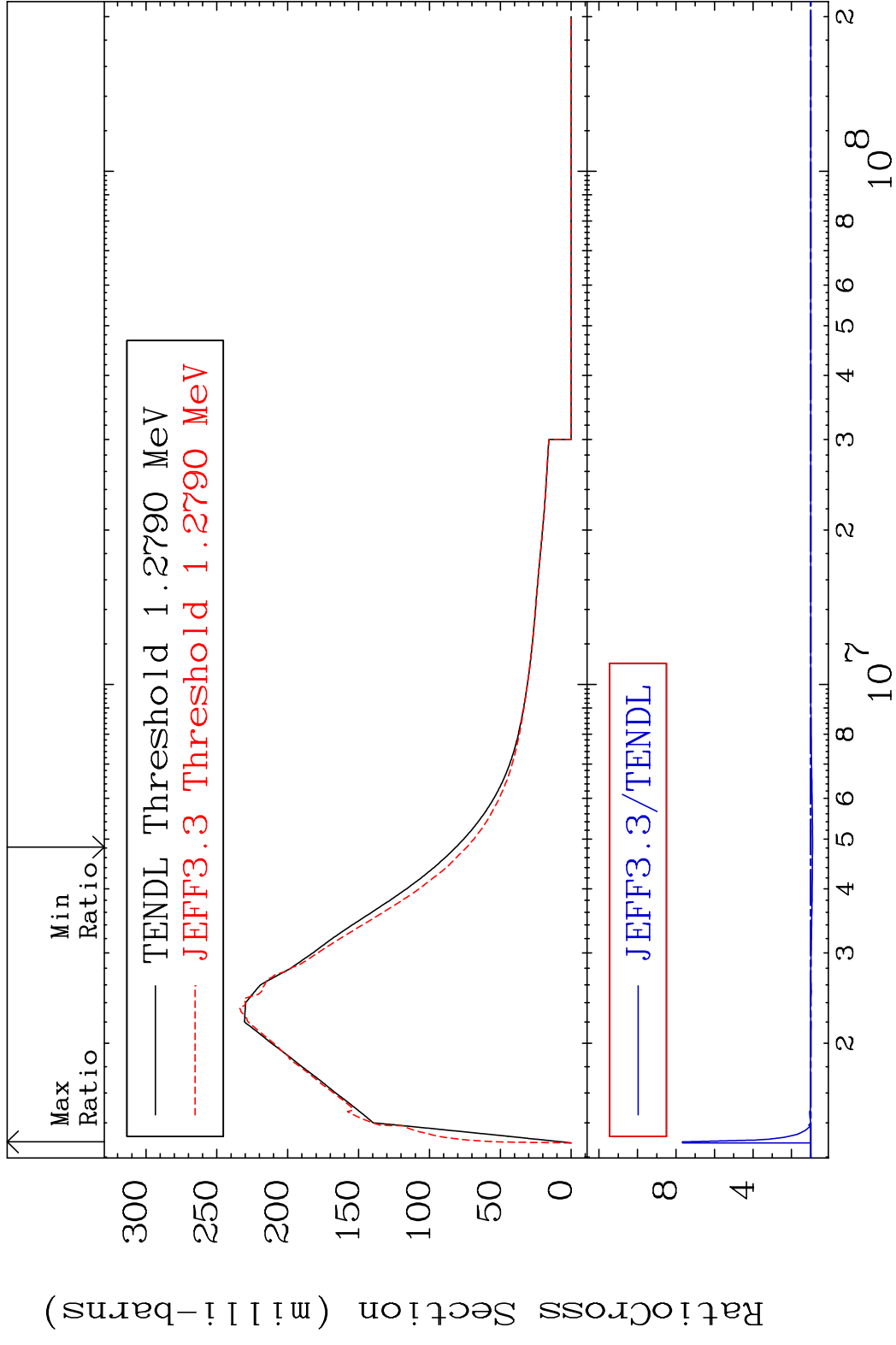
MAT 2228 MT= 51 (n,n') Level 22-Ti-47
 Cross Section -11.51 To 1076. %



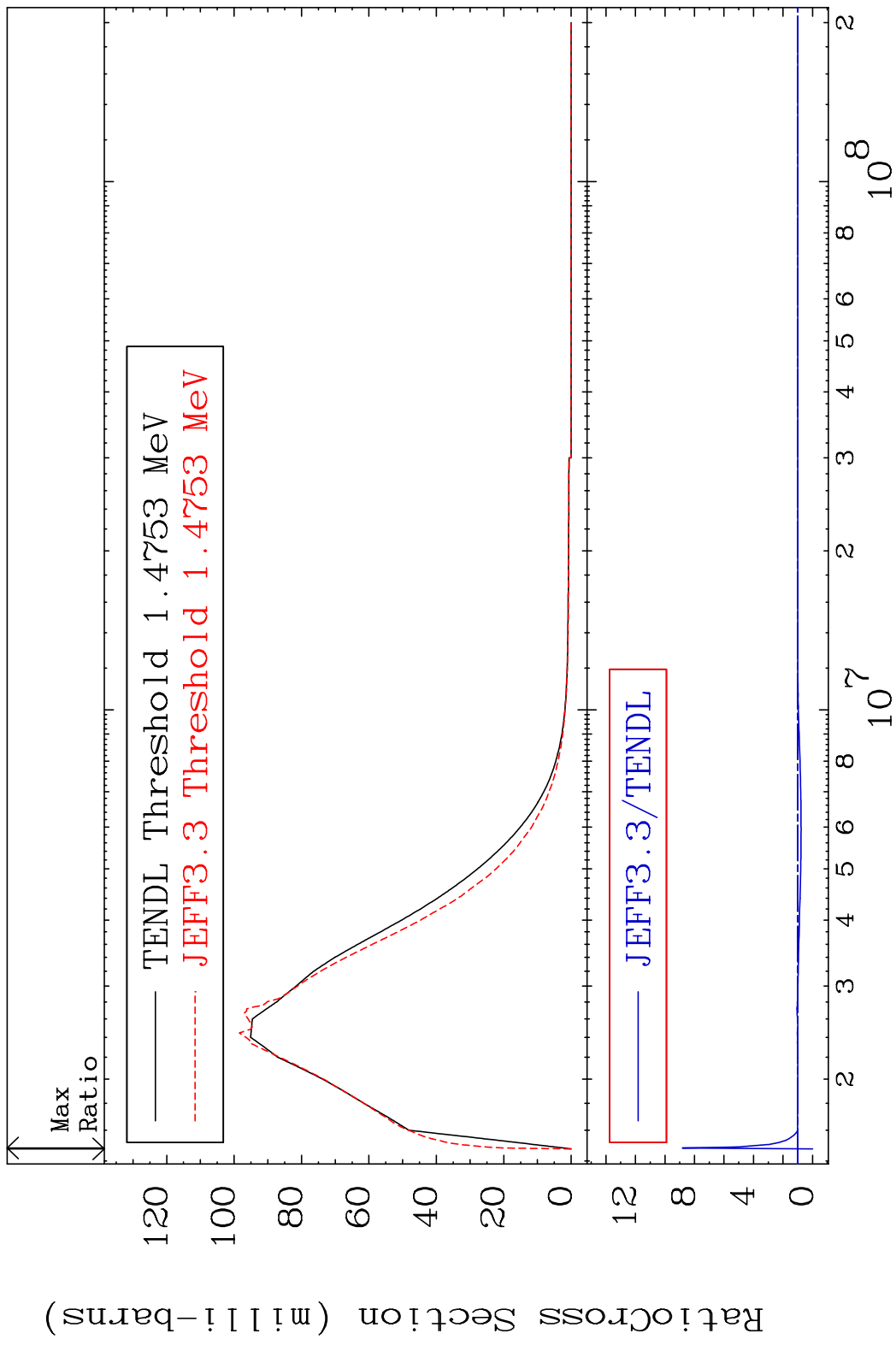
MAT 2228 MT= 52 (n, n') Level 22-Ti-47
 Cross Section -59.79 To 718.4 %



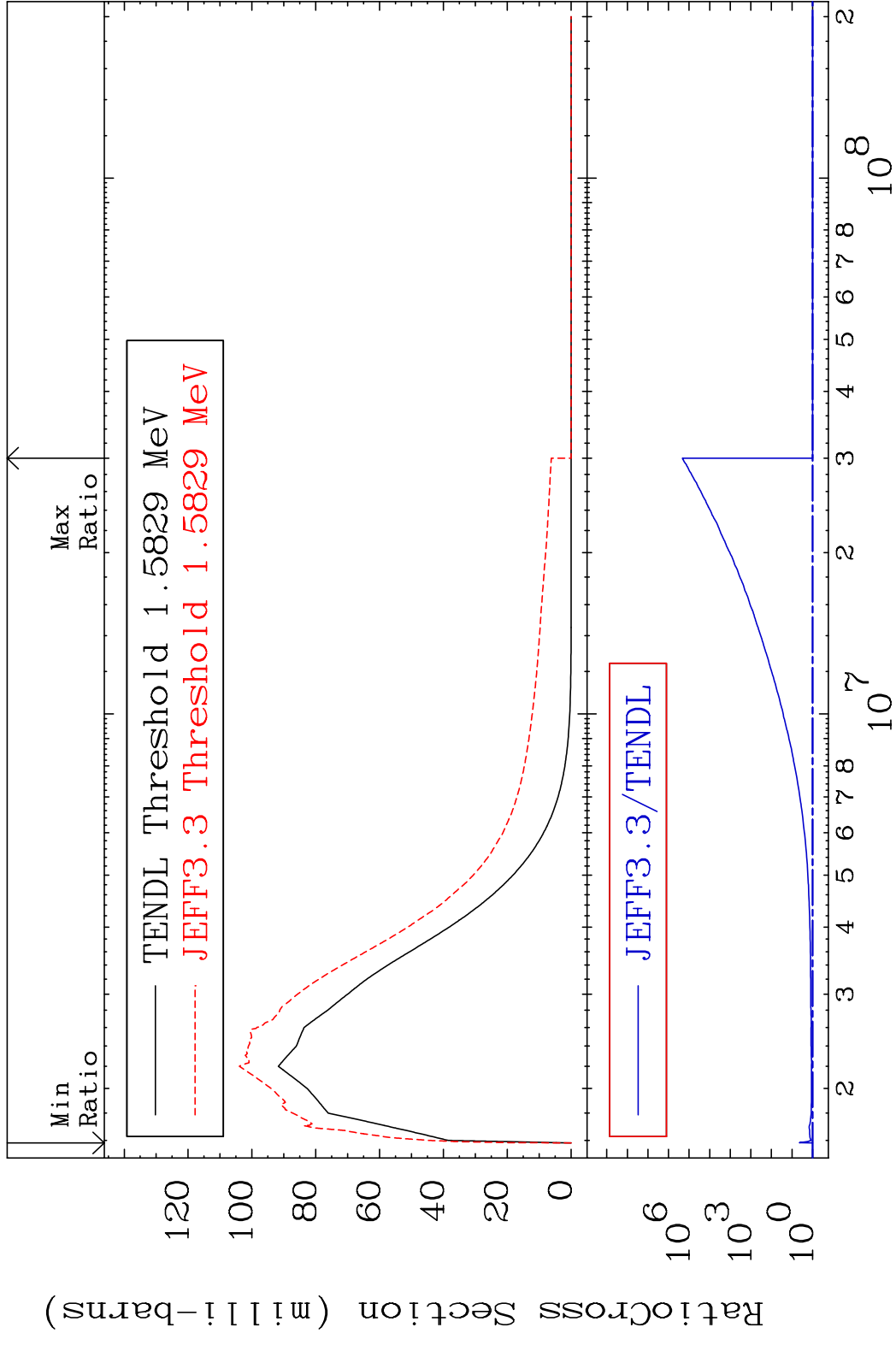
MAT 2228 MT= 53 (n,n') Level 22-Ti-47
 Cross Section -9.465 To 667.0 %



MAT 2228 MT= 54 (n,n') Level 22-Ti-47
 Cross Section -100.0 To 782.2 %

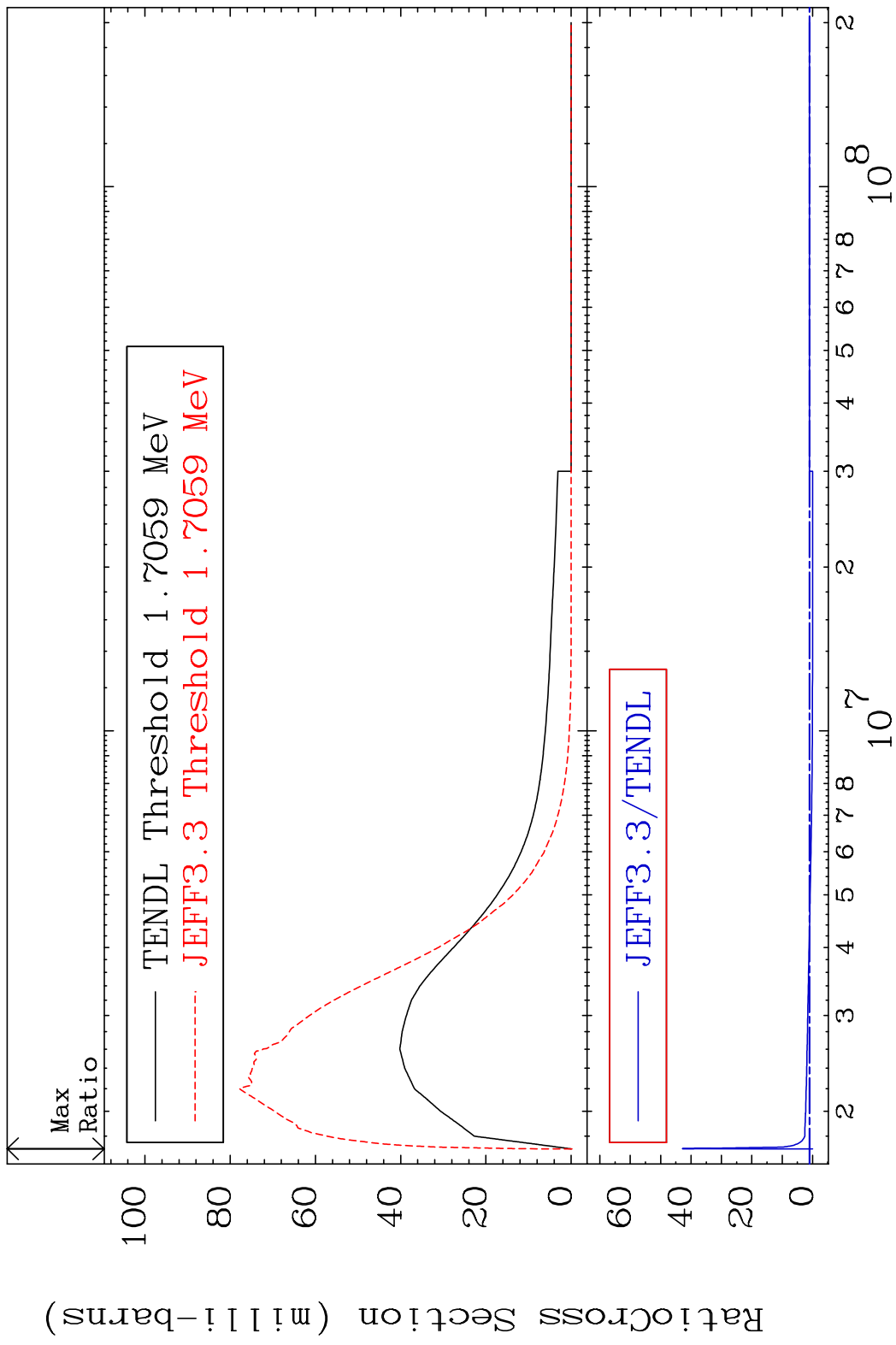


MAT 2228 MT= 55 (n, n') Level 22-Ti-47
 Cross Section 0.000 To 9999. %

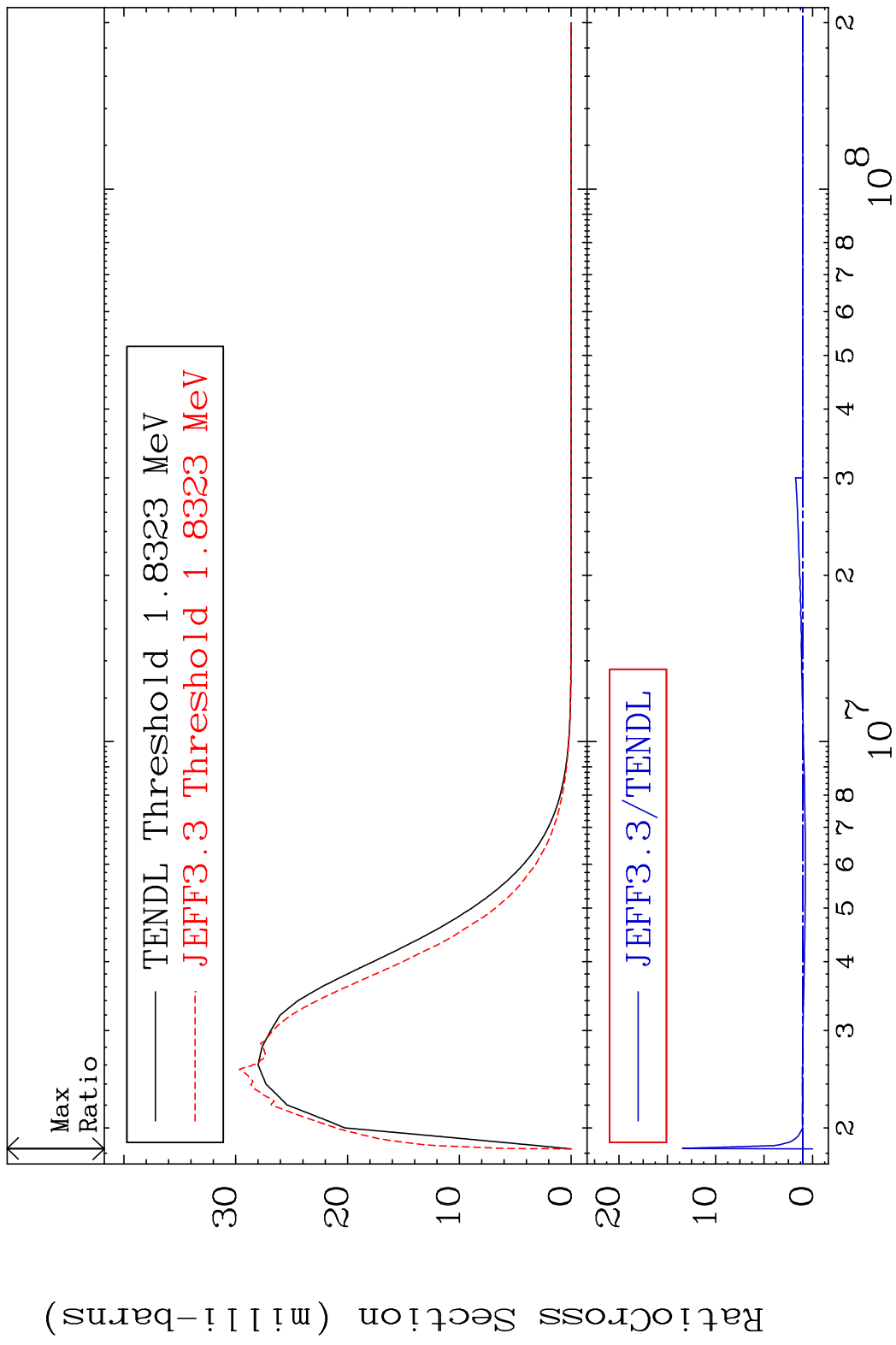


20 Incident Energy (eV) 22-Ti-47

MAT 2228 MT= 56 (n,n') Level 22-Ti-47
 Cross Section -100.0 To 4186. %

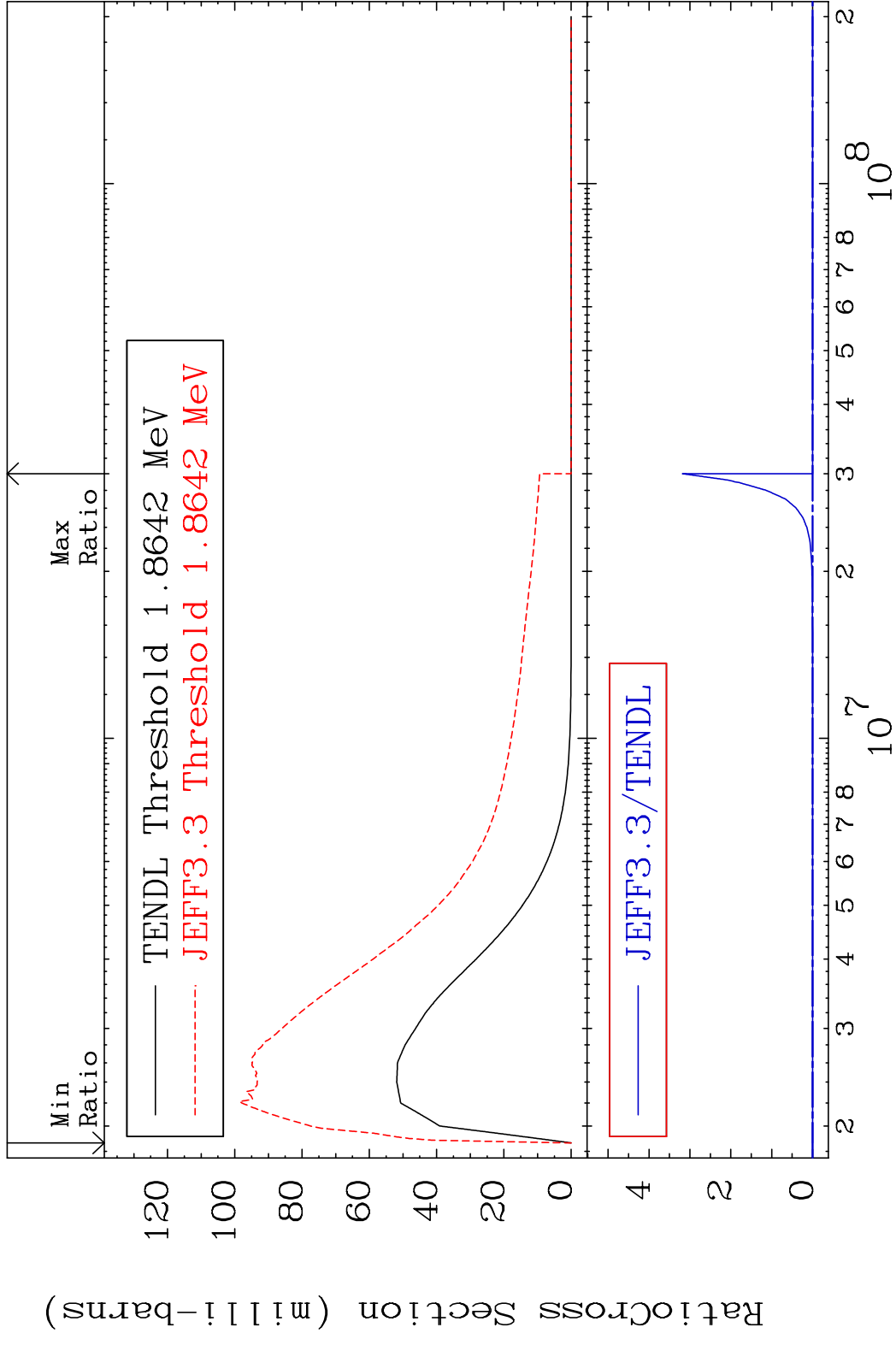


MAT 2228 MT= 57 (n,n') Level 22-Ti-47
 Cross Section -100.0 To 1245. %



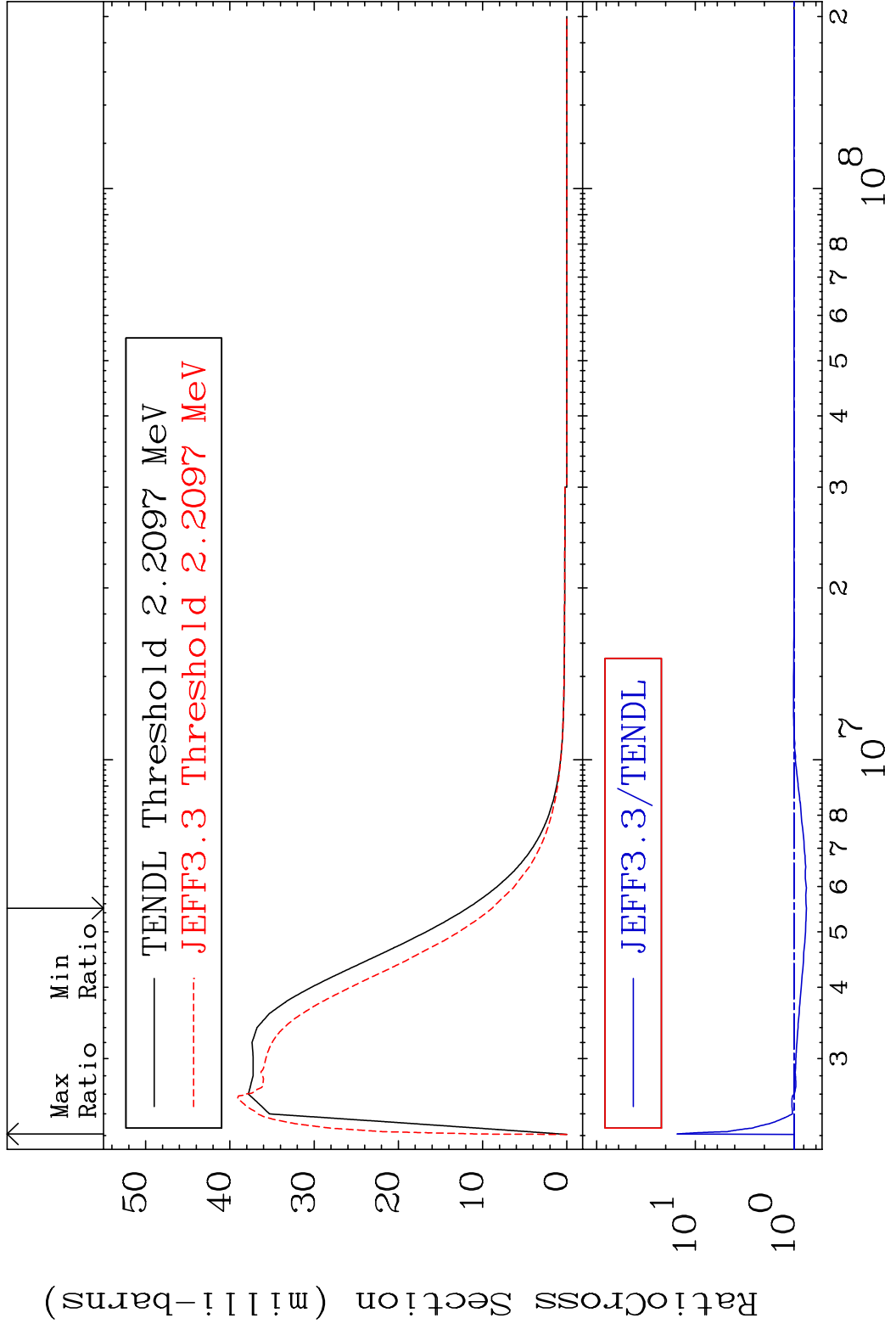
22 Incident Energy (eV) 22-Ti-47

MAT 2228 MT= 58 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 9999. %

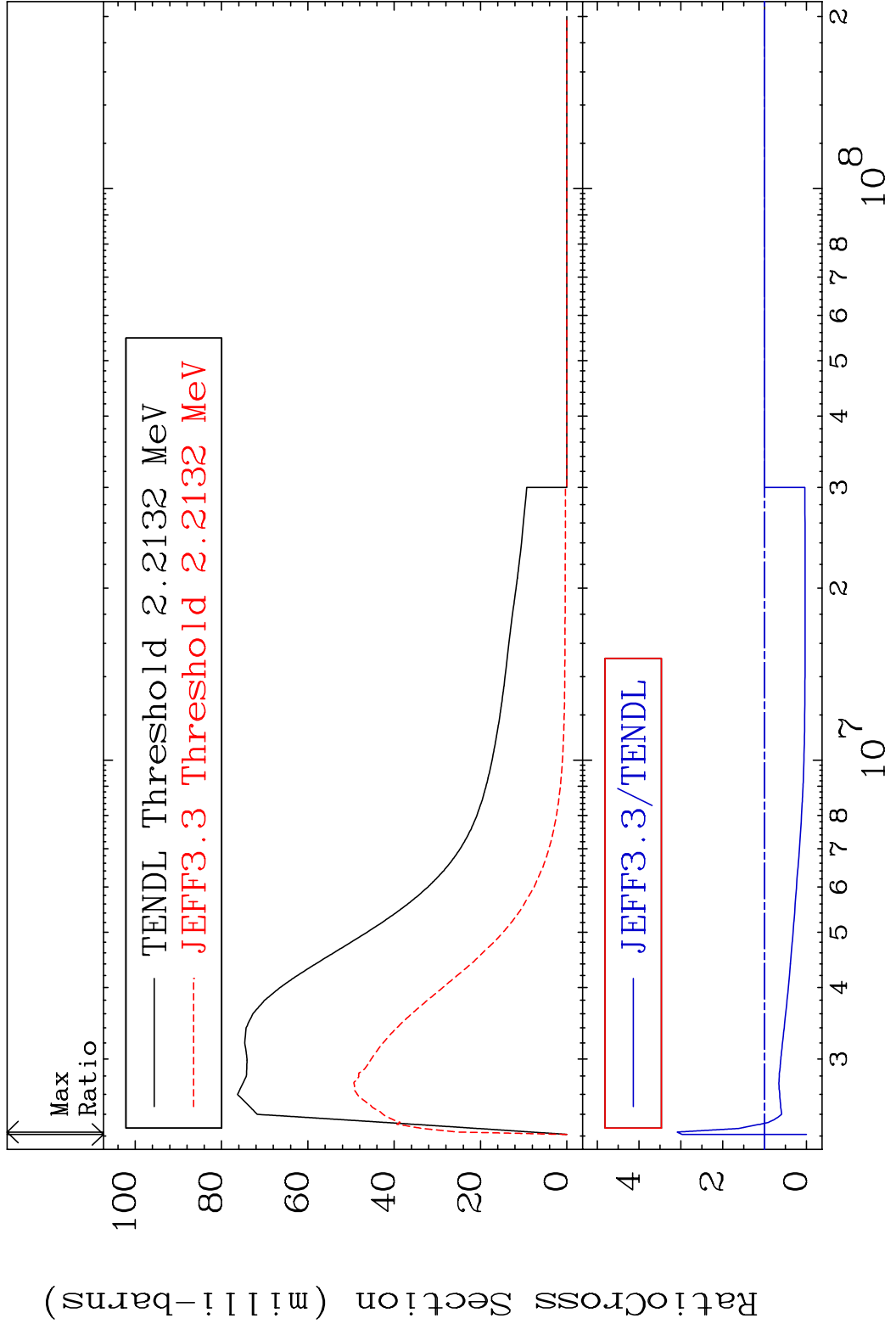


23 Incident Energy (eV) 22-Ti-47

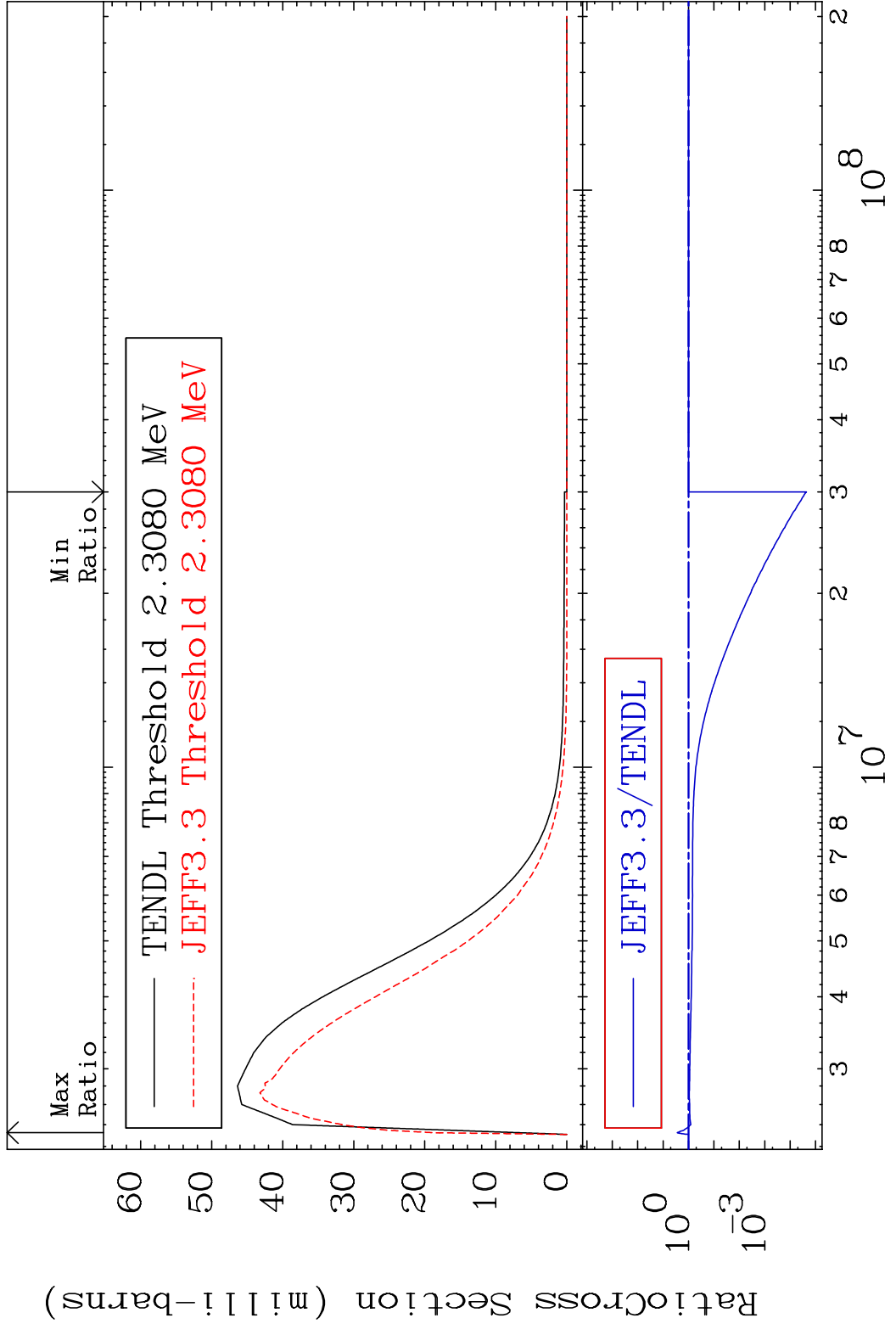
MAT 2228 MT= 59 (n, n') Level 22-Ti-47
 Cross Section -24.92 To 1428. %



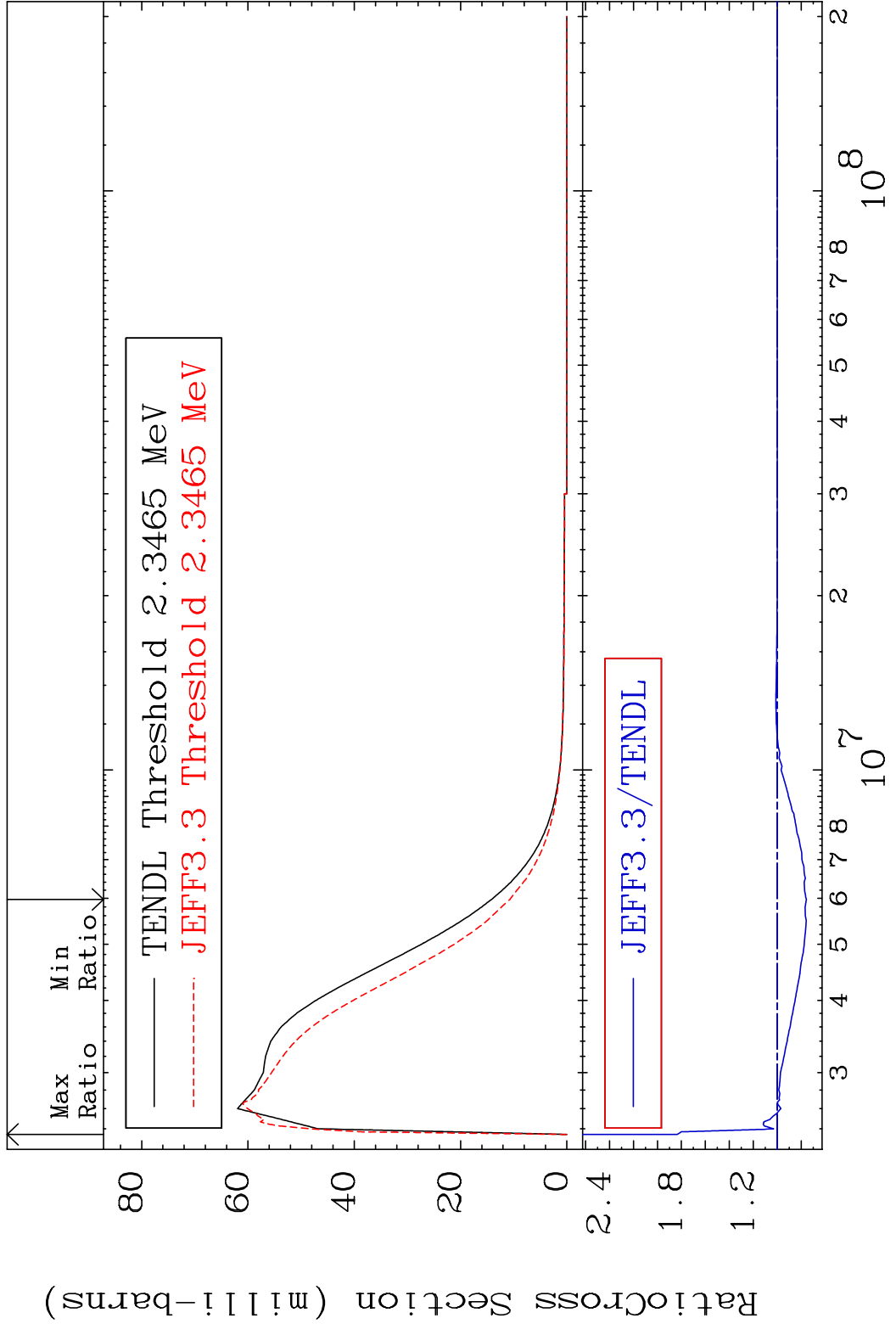
MAT 2228 MT= 60 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 208.9 %



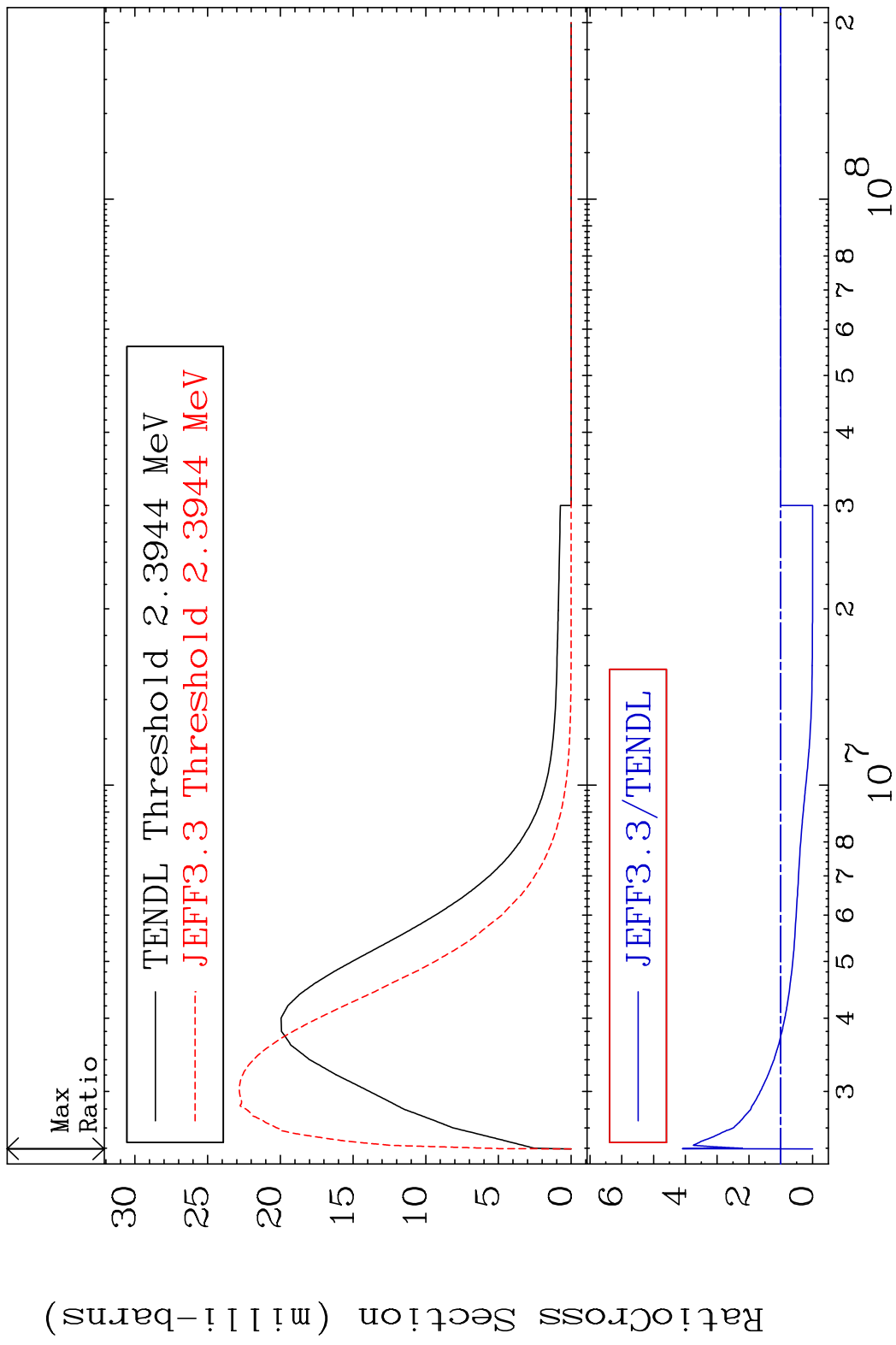
MAT 2228 MT= 61 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 179.0 %



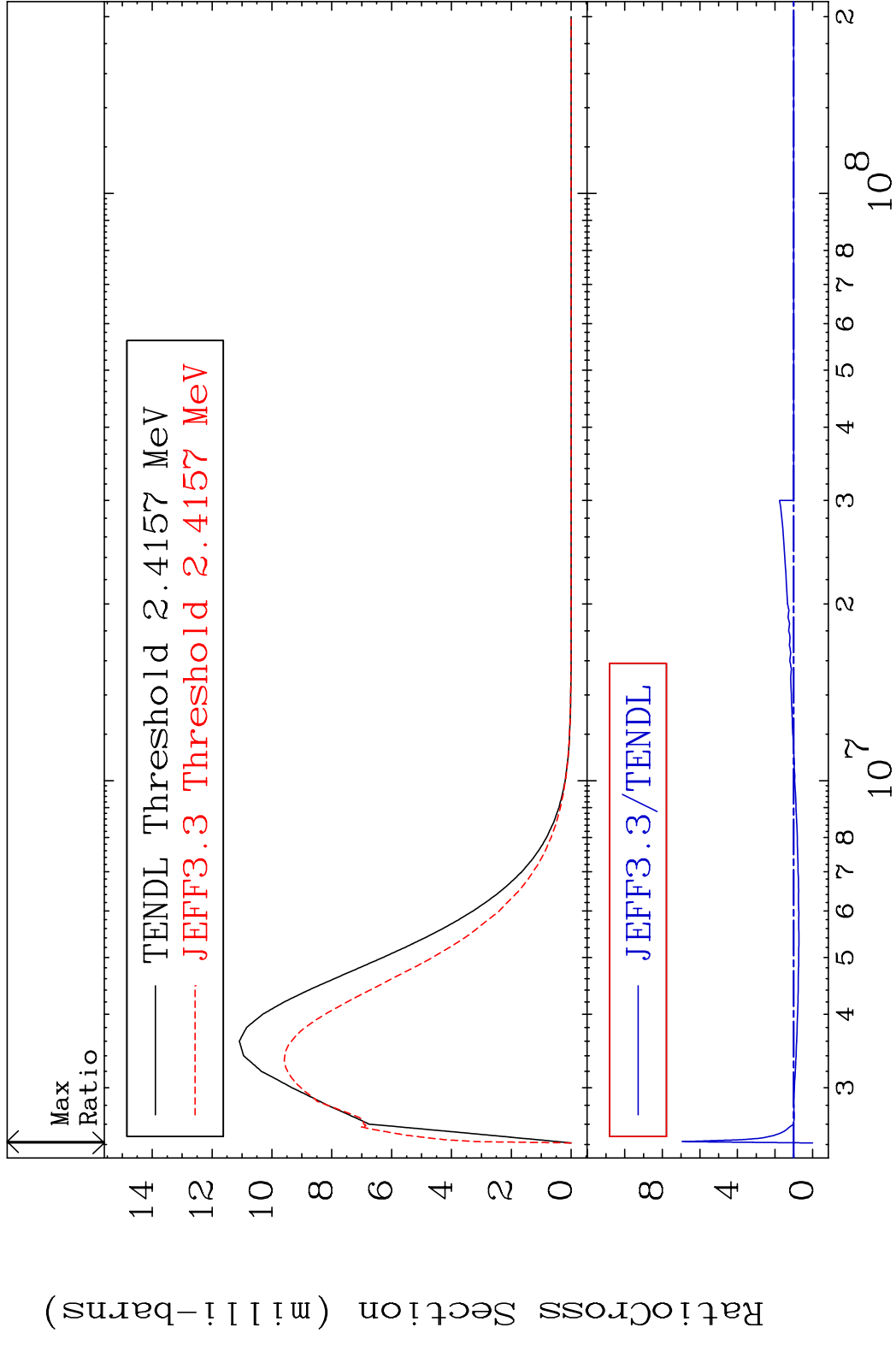
MAT 2228 MT= 62 (n, n') Level 22-Ti-47
 Cross Section -24.34 To 83.52 %



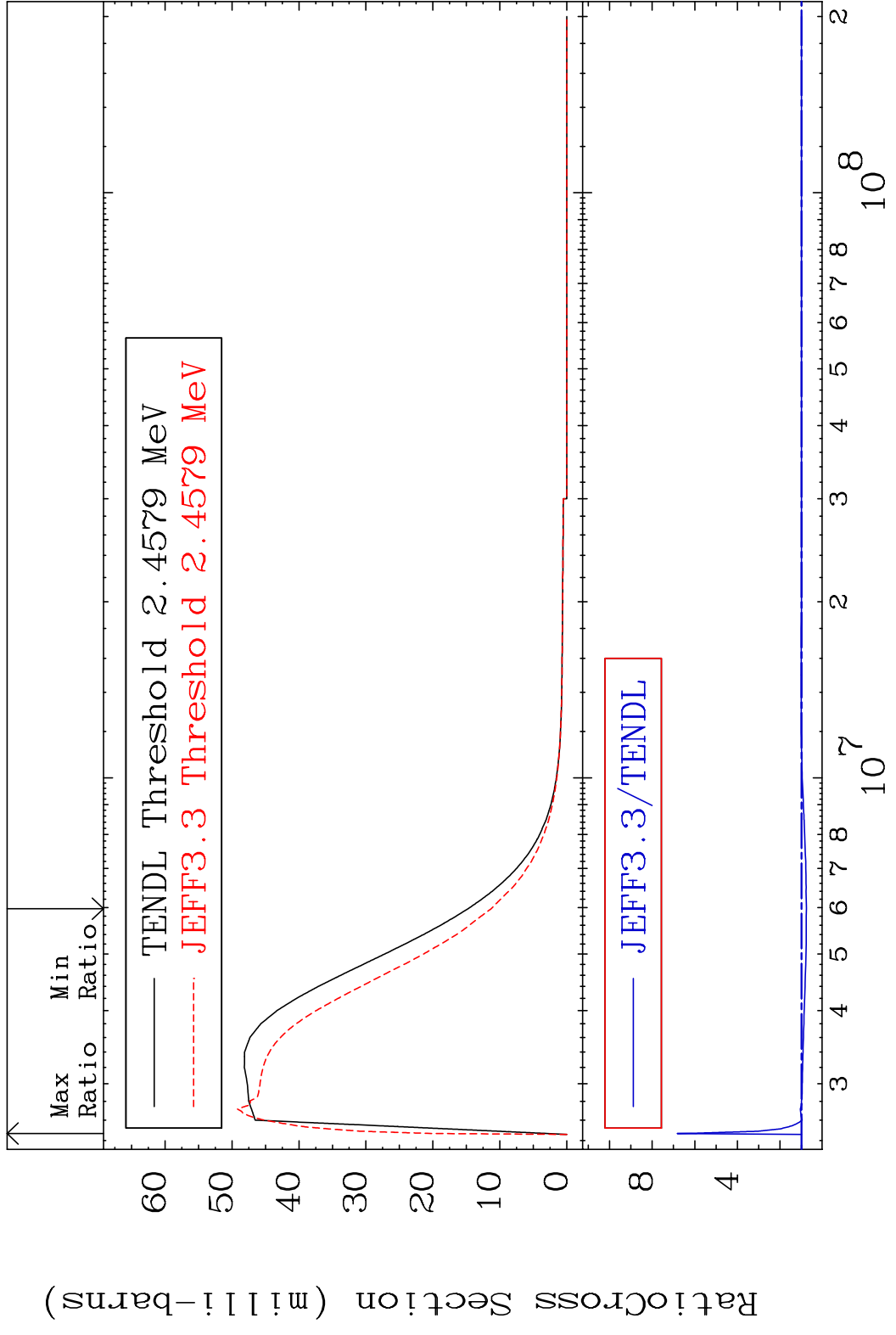
MAT 2228 MT= 63 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 309.4 %



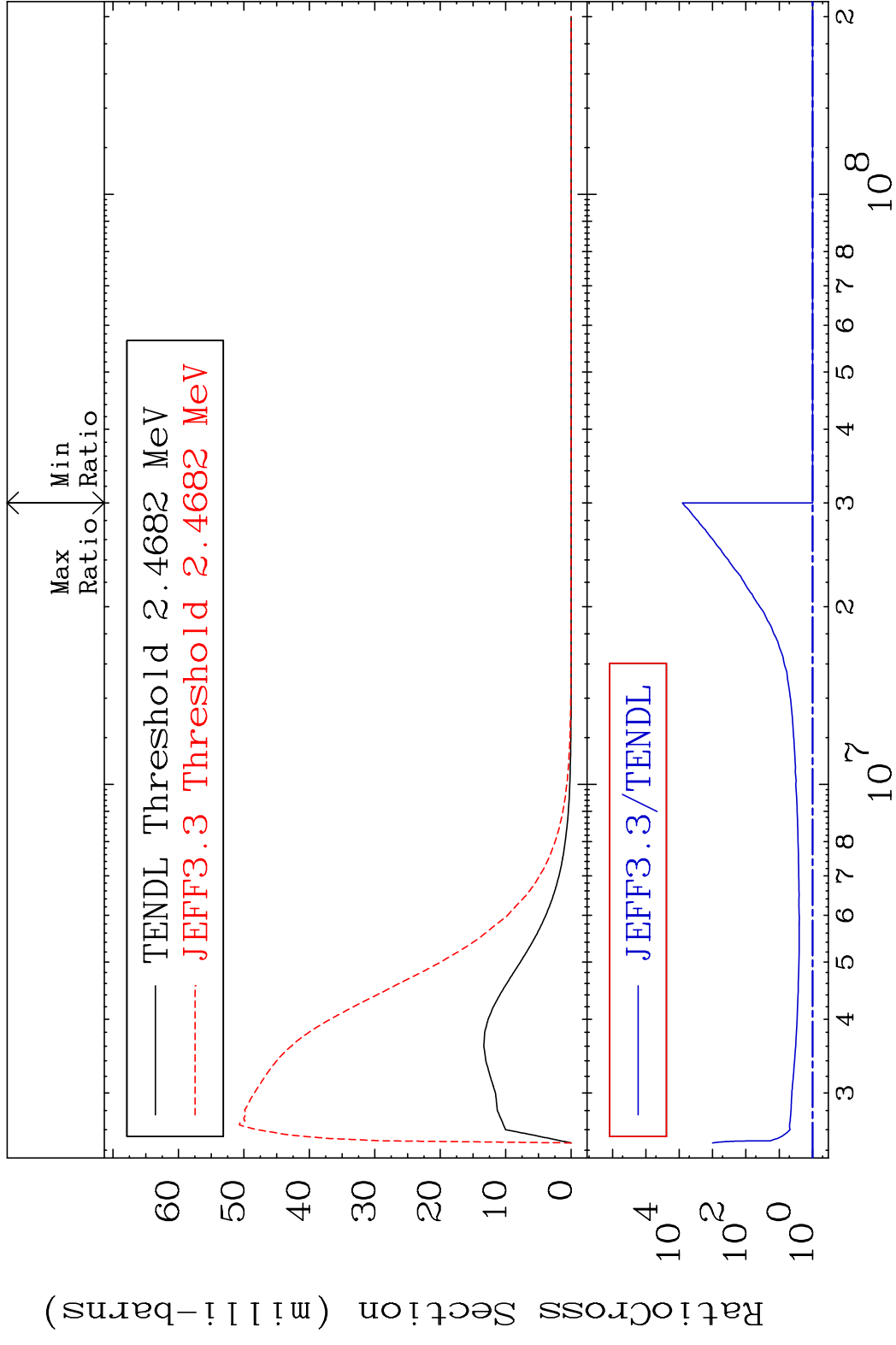
MAT 2228 MT= 64 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 593.4 %



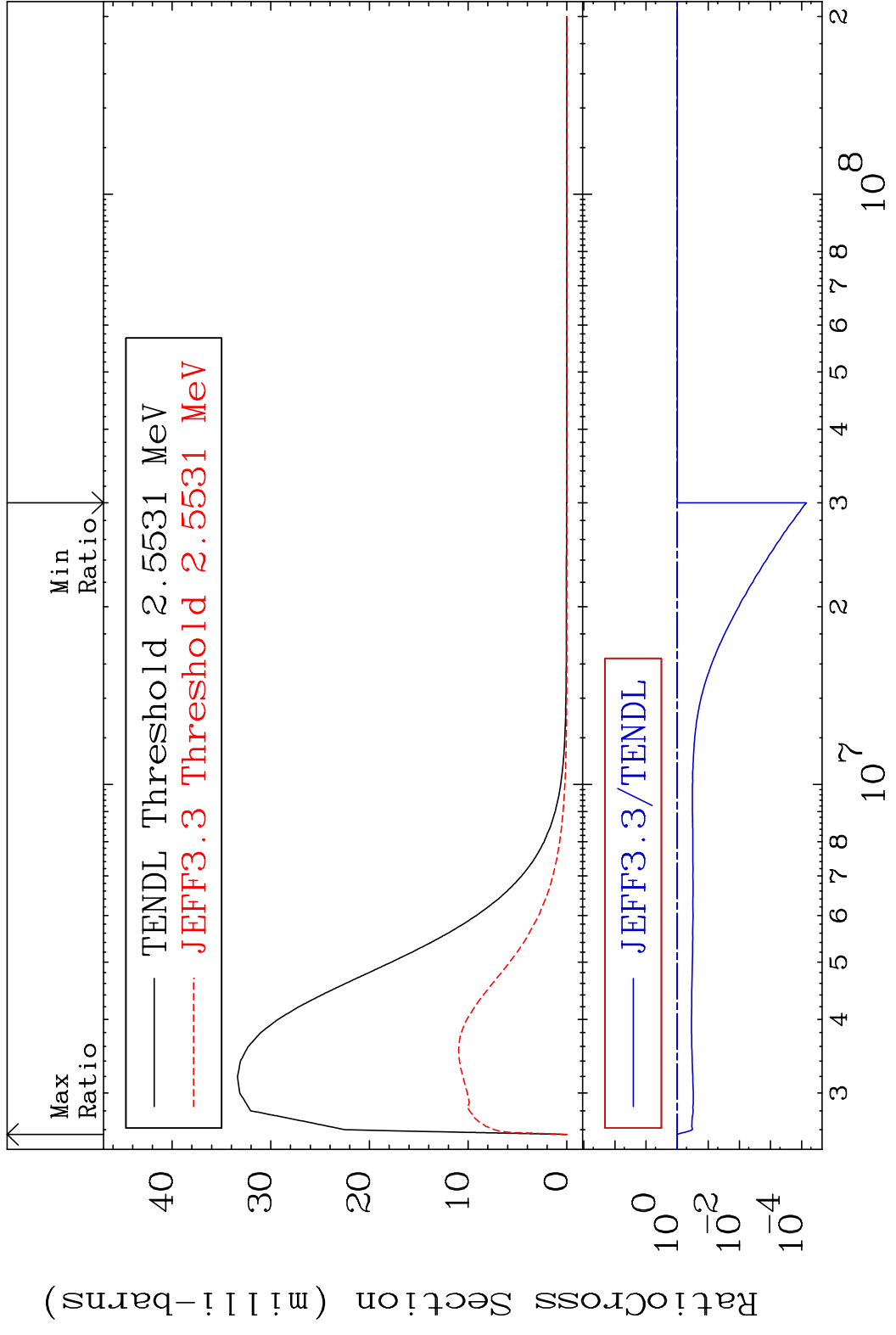
MAT 2228 MT= 65 (n, n') Level 22-Ti-47
 Cross Section -23.49 To 582.5 %



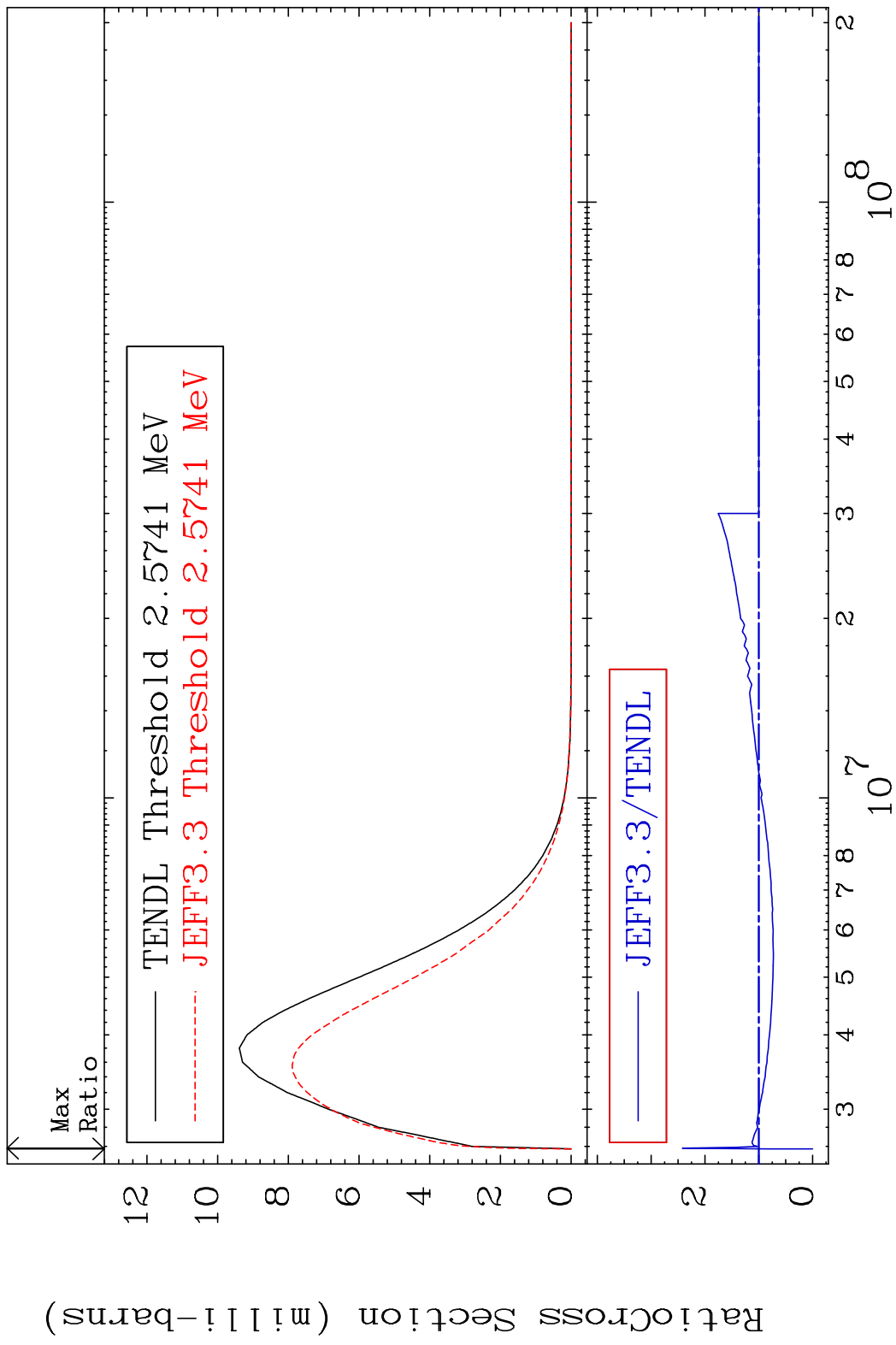
MAT 2228 MT= 66 (n, n') Level 22-Ti-47
 Cross Section 0.000 To 9999. %



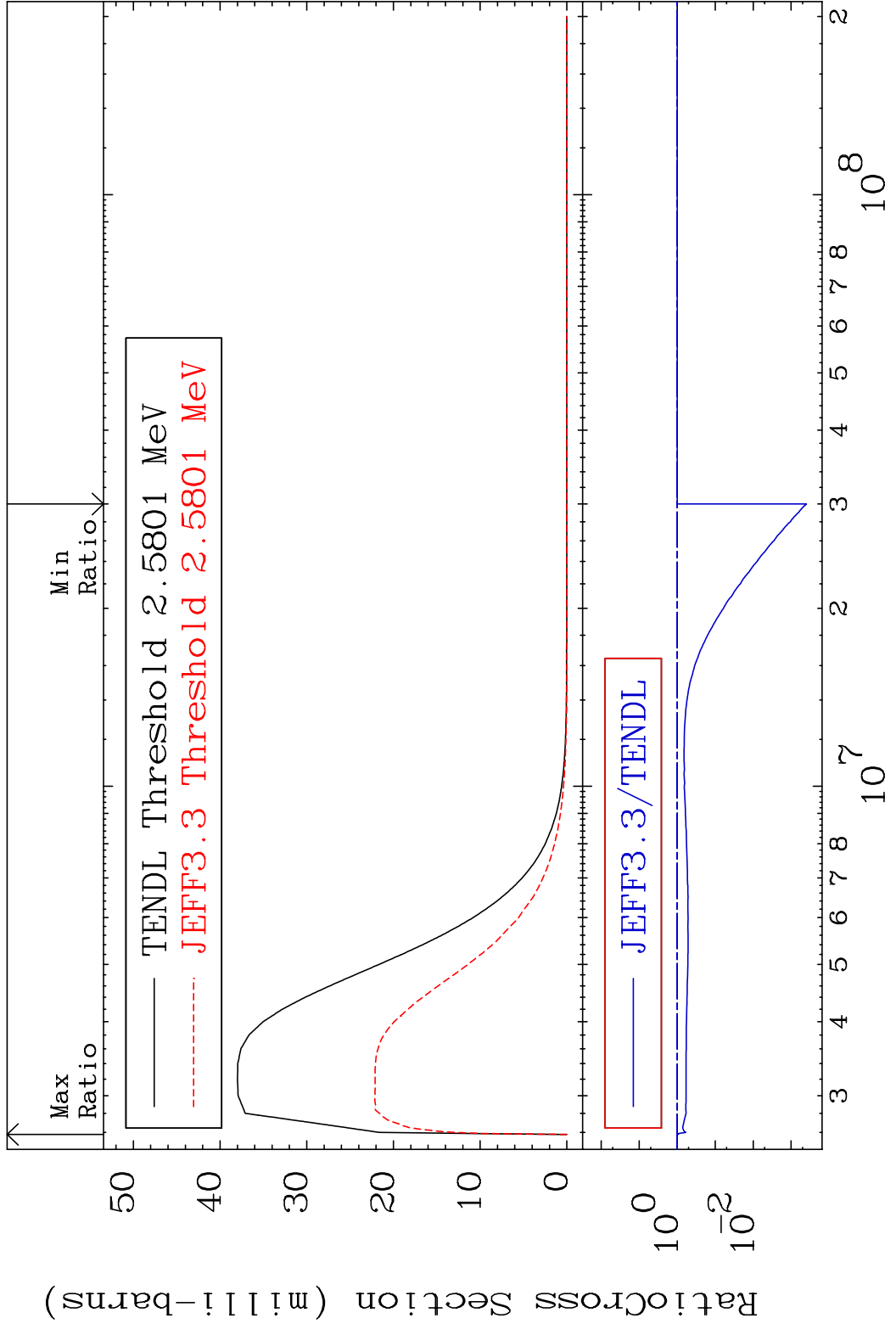
MAT 2228 MT= 67 (n, n') Level 22-Ti-47
 Cross Section -99.99 To 0.000 %



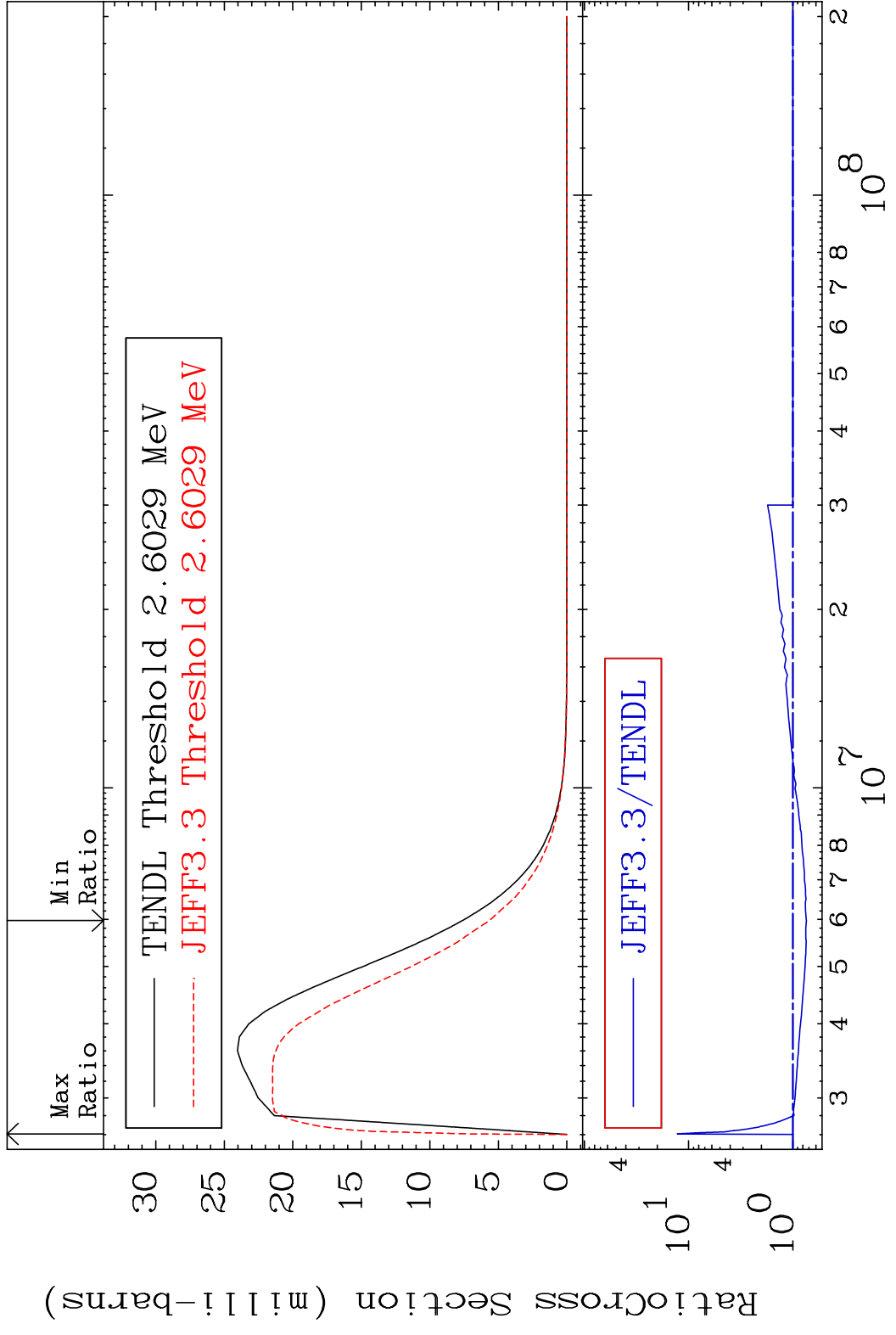
MAT 2228 MT= 68 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 141.9 %



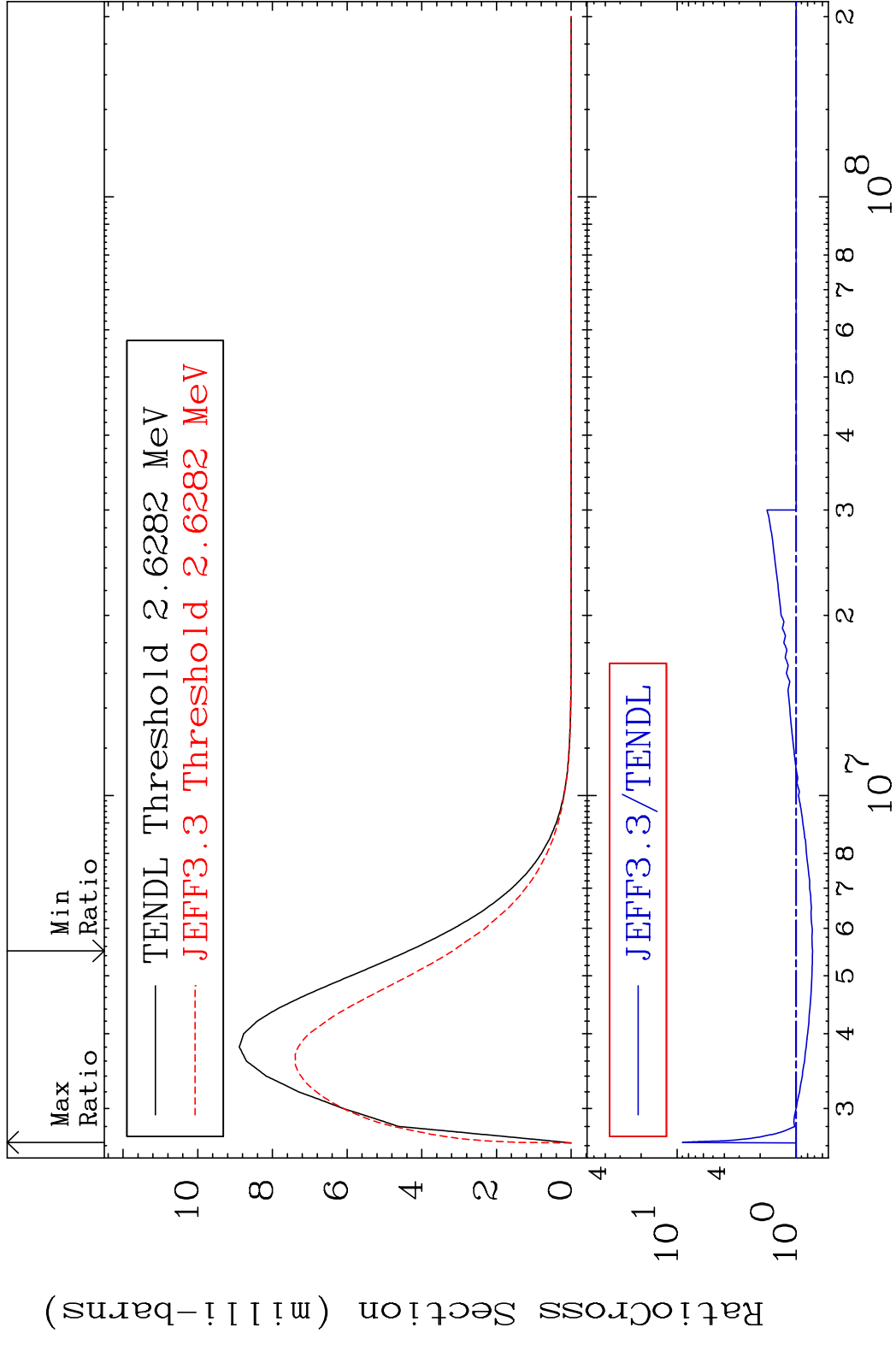
MAT 2228 MT= 69 (n, n') Level 22-Ti-47
 Cross Section -99.96 To 0.000 %



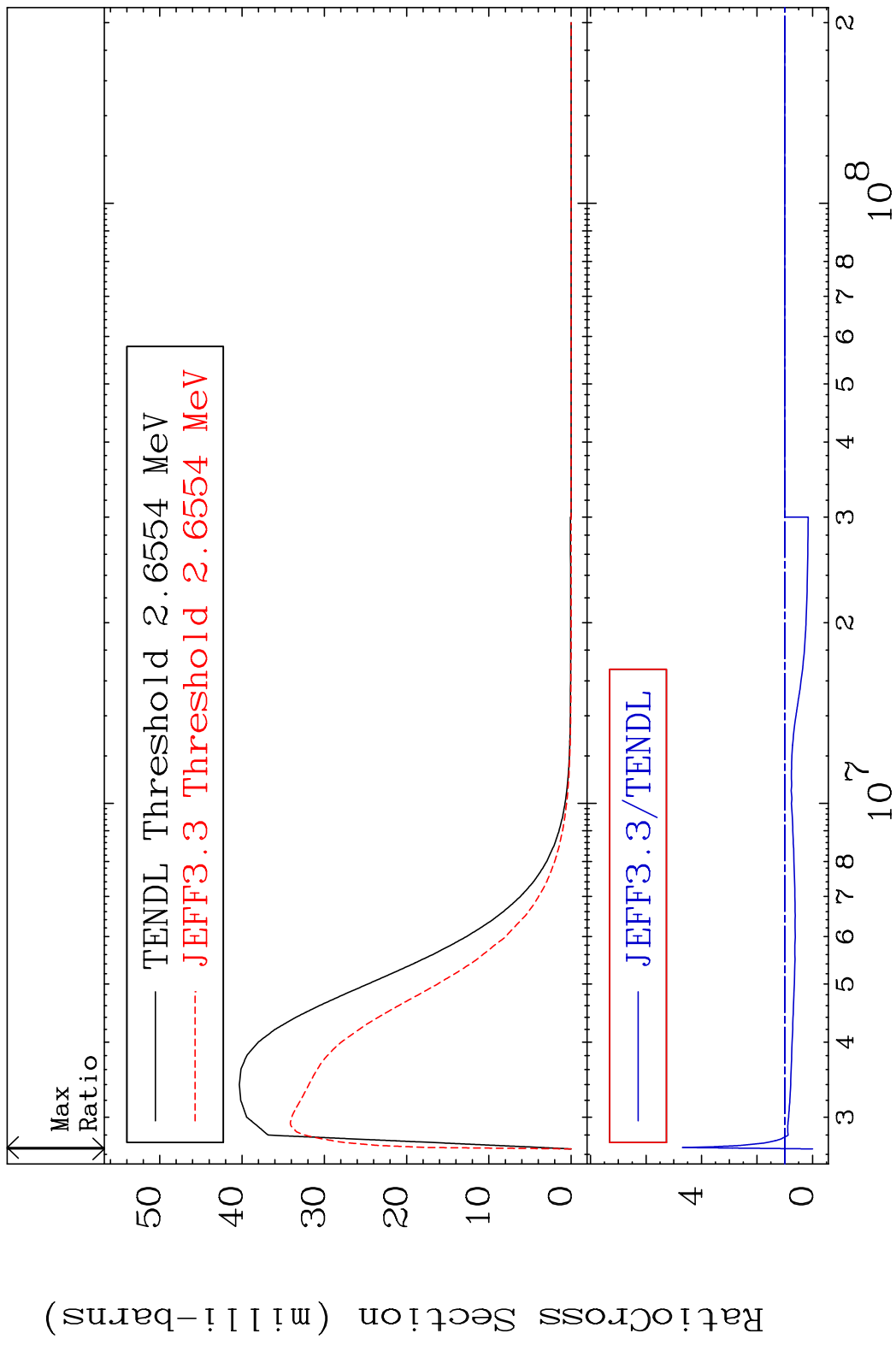
MAT 2228 MT= 70 (n,n') Level 22-Ti-47
 Cross Section -25.90 To 1188. %



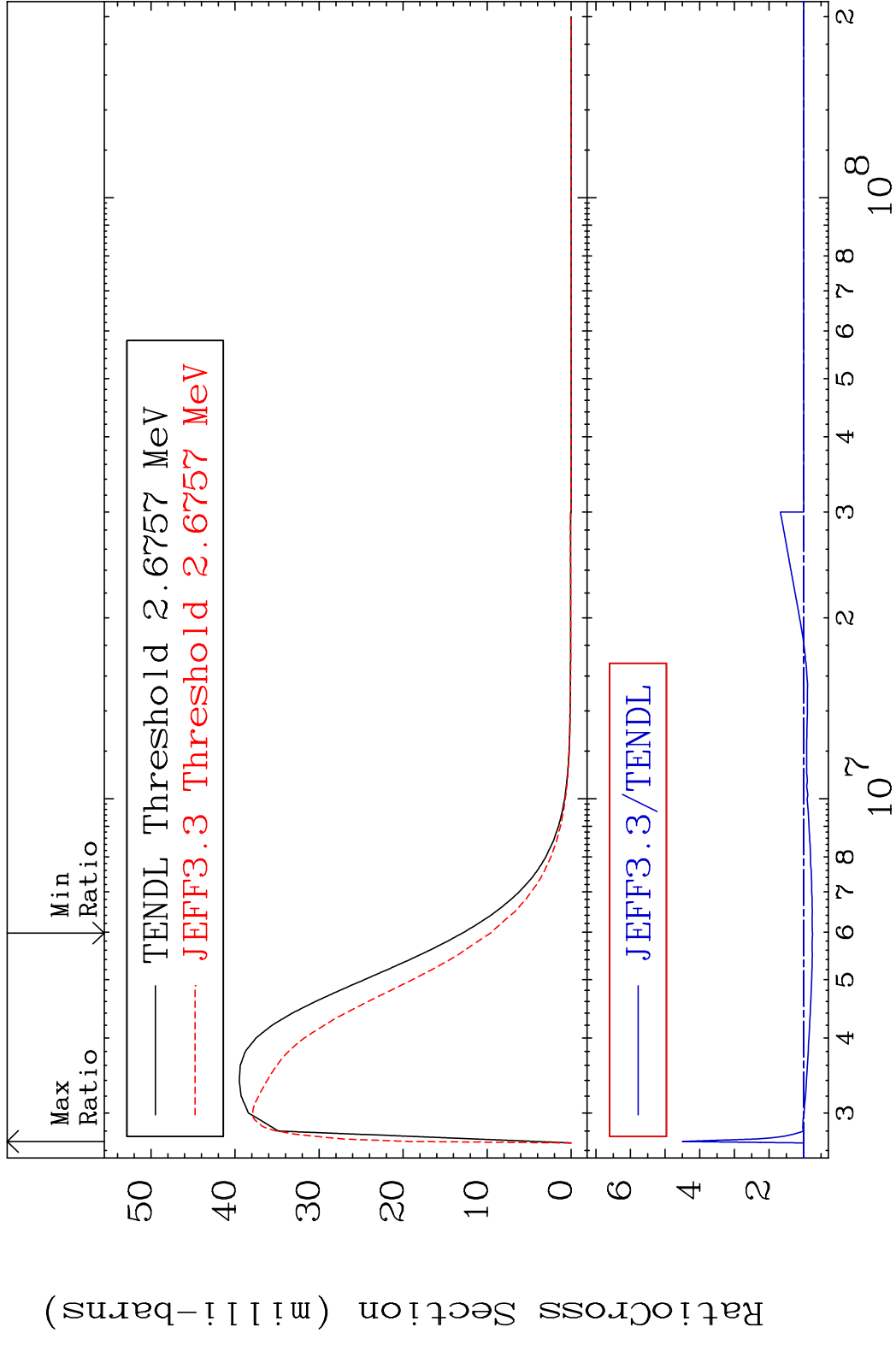
MAT 2228 MT= 71 (n, n') Level 22-Ti-47
 Cross Section -27.27 To 802.2 %



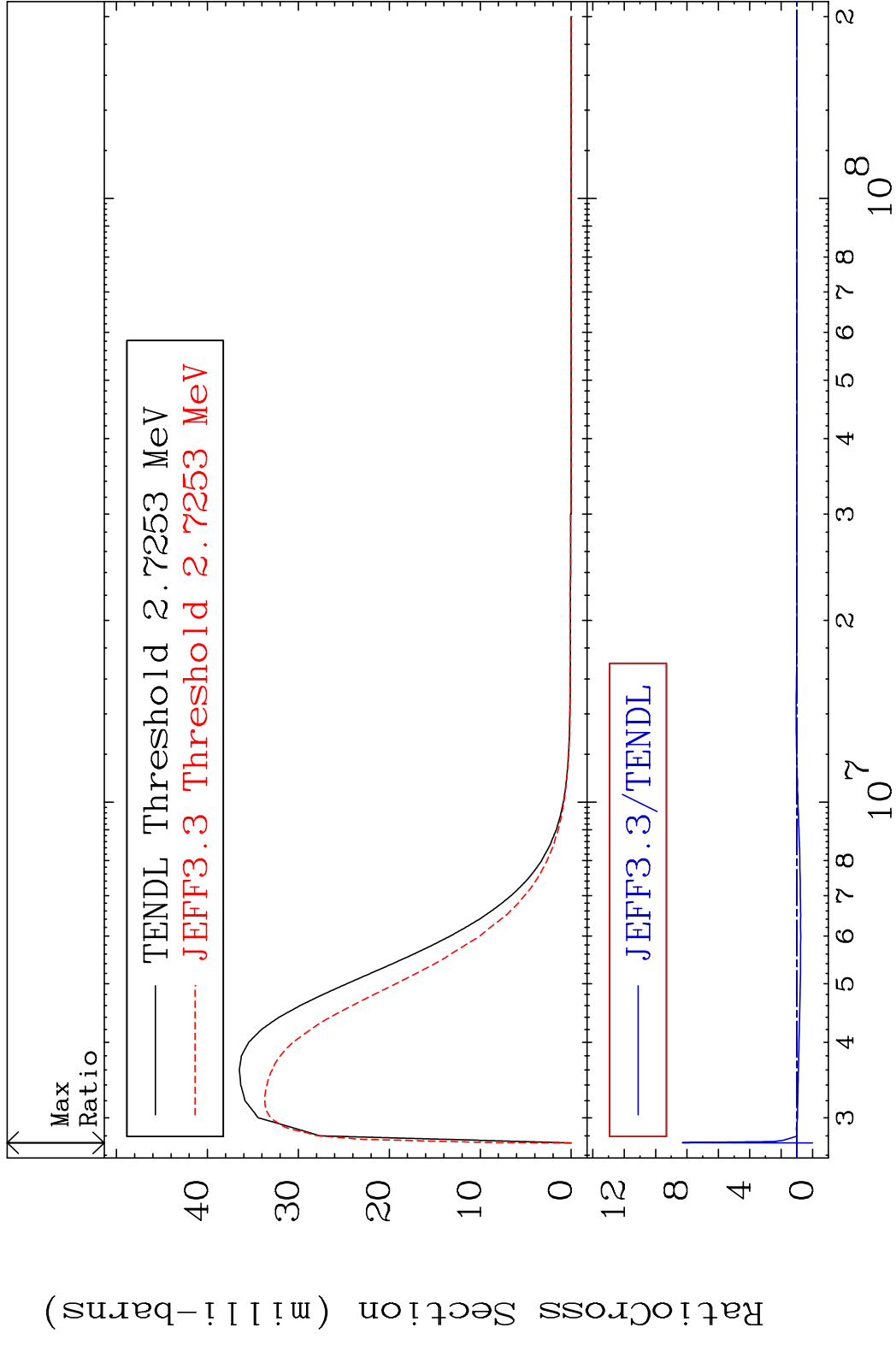
MAT 2228 MT= 72 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 369.3 %



MAT 2228 MT= 73 (n,n') Level 22-Ti-47
 Cross Section -25.77 To 350.2 %

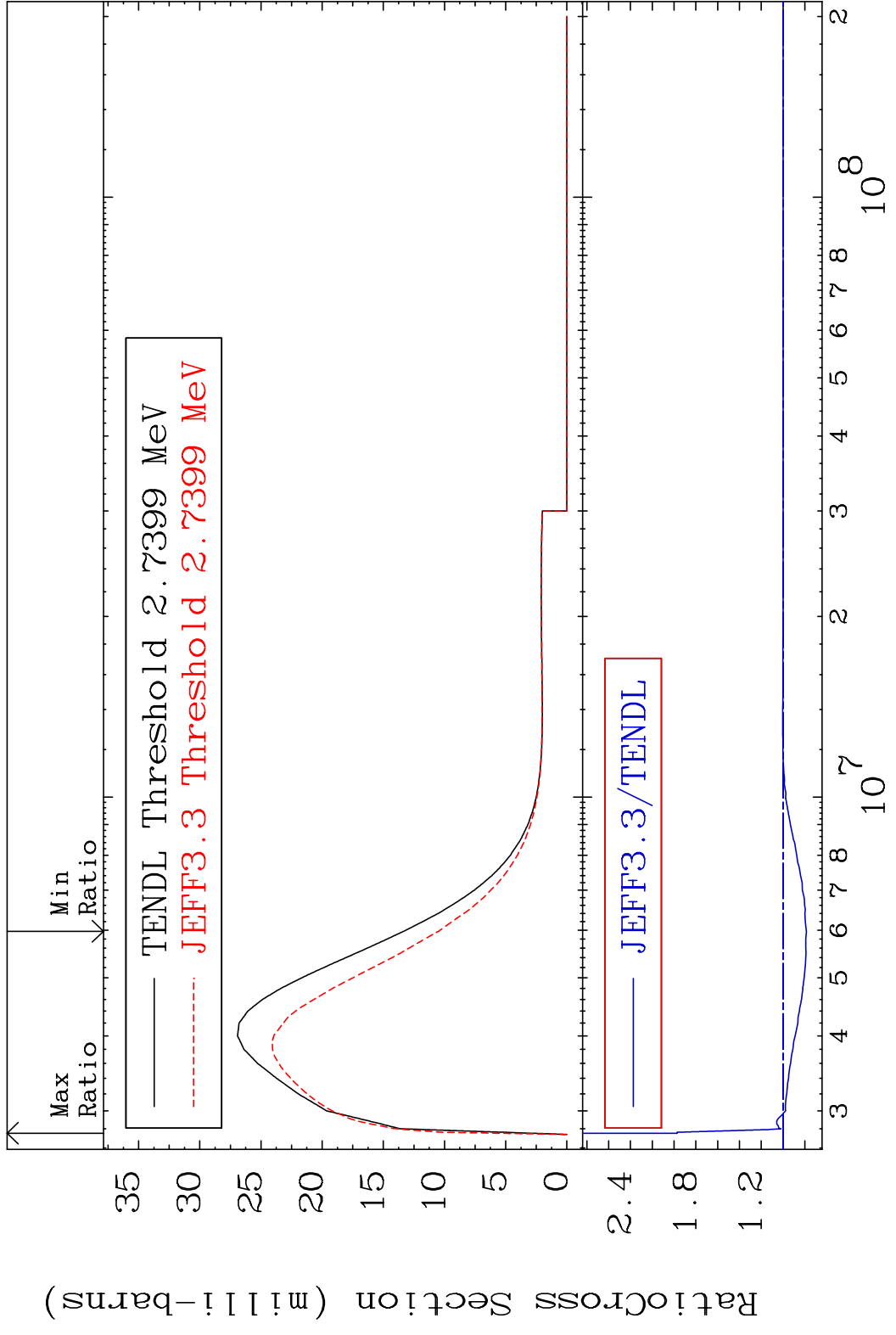


MAT 2228 MT= 74 (n,n') Level 22-Ti-47
 Cross Section -100.0 To 729.6 %



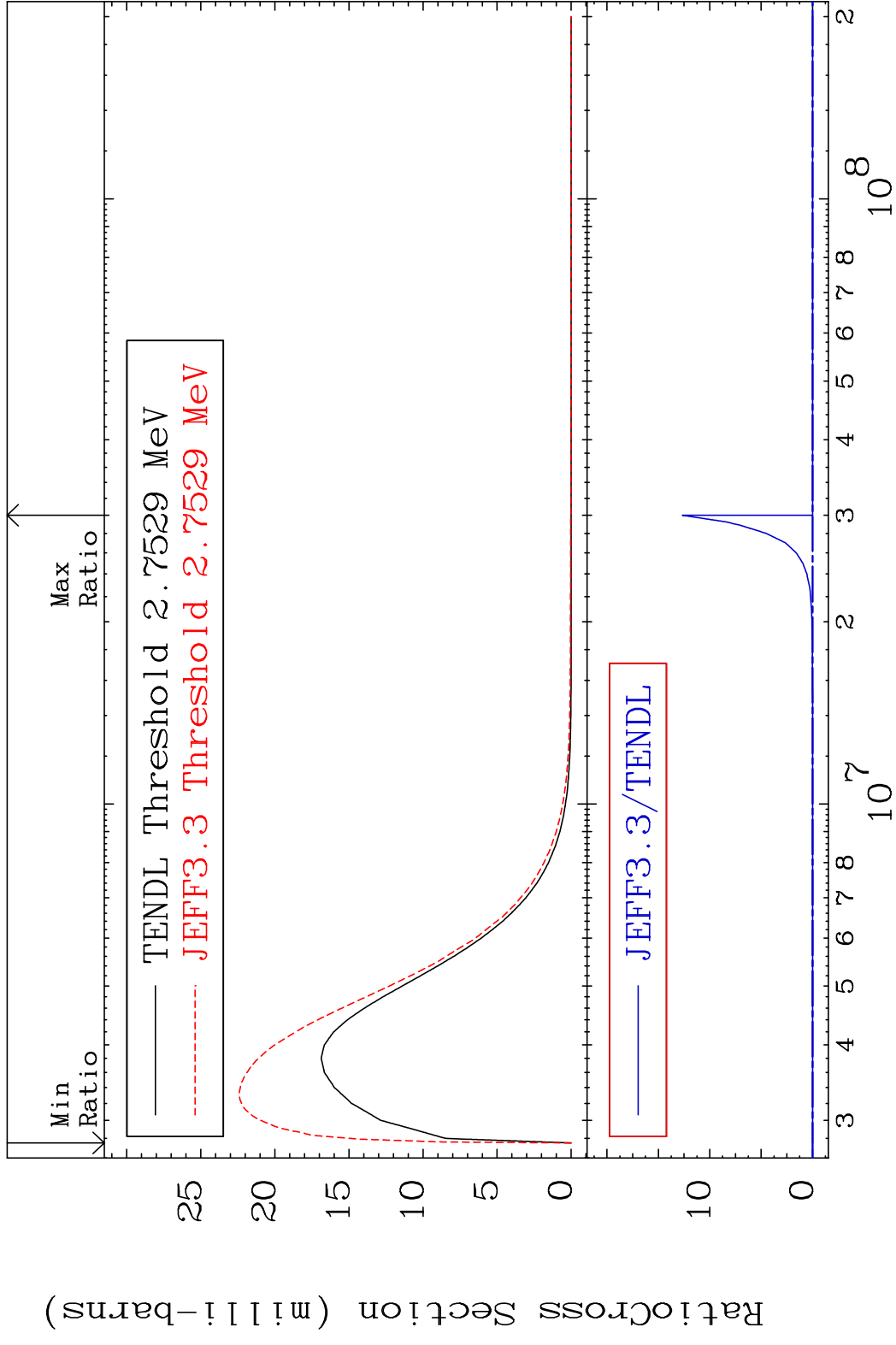
39 Incident Energy (eV) 22-Ti-47

MAT 2228 MT= 75 (n,n') Level 22-Ti-47
 Cross Section -21.39 To 97.14 %

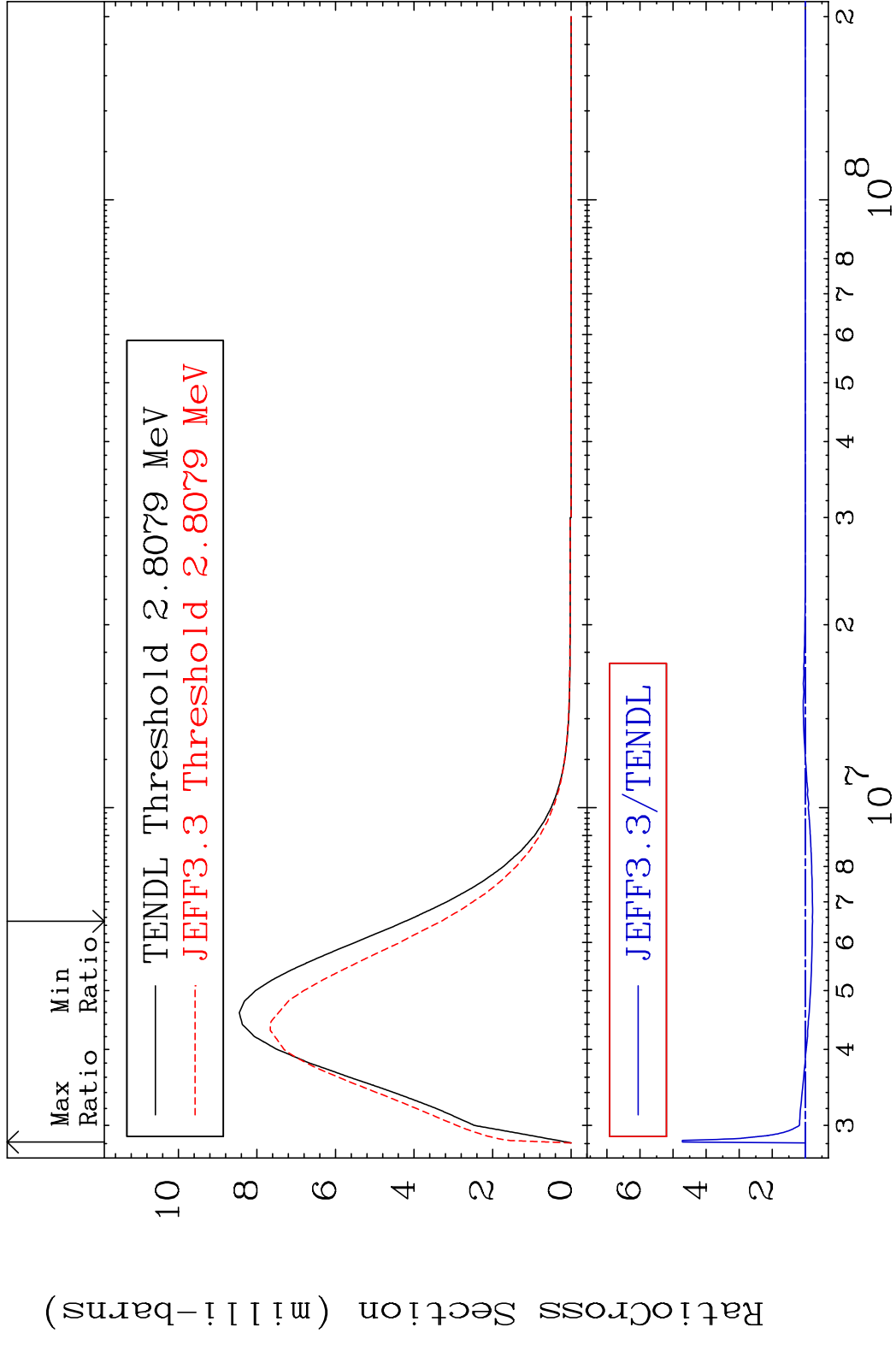


40 22-Ti-47

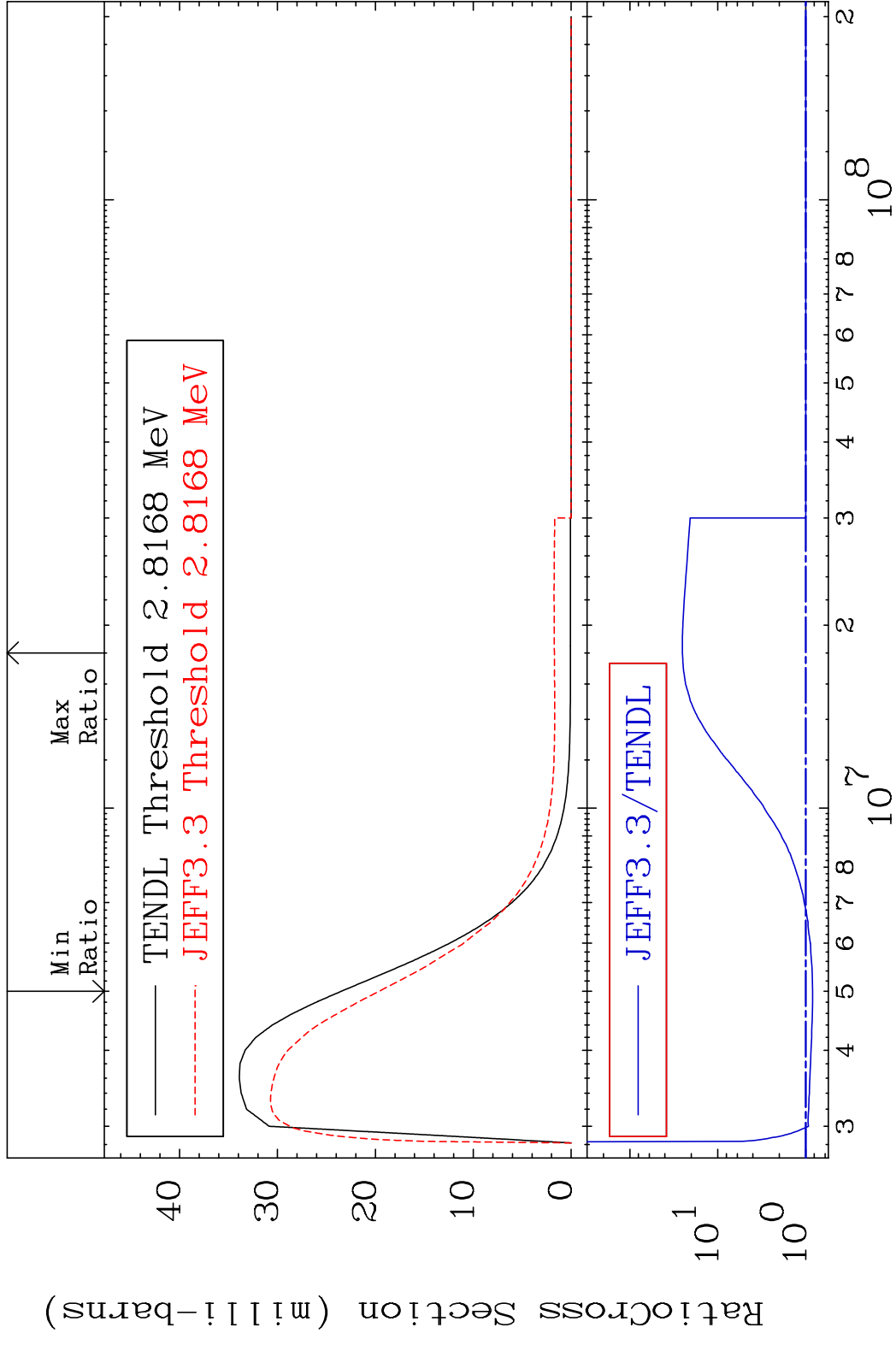
MAT 2228 MT= 76 (n, n') Level 22-Ti-47
 Cross Section -100.0 To 9999. %



MAT 2228 MT= 77 (n,n') Level 22-Ti-47
 Cross Section -21.68 To 371.9 %

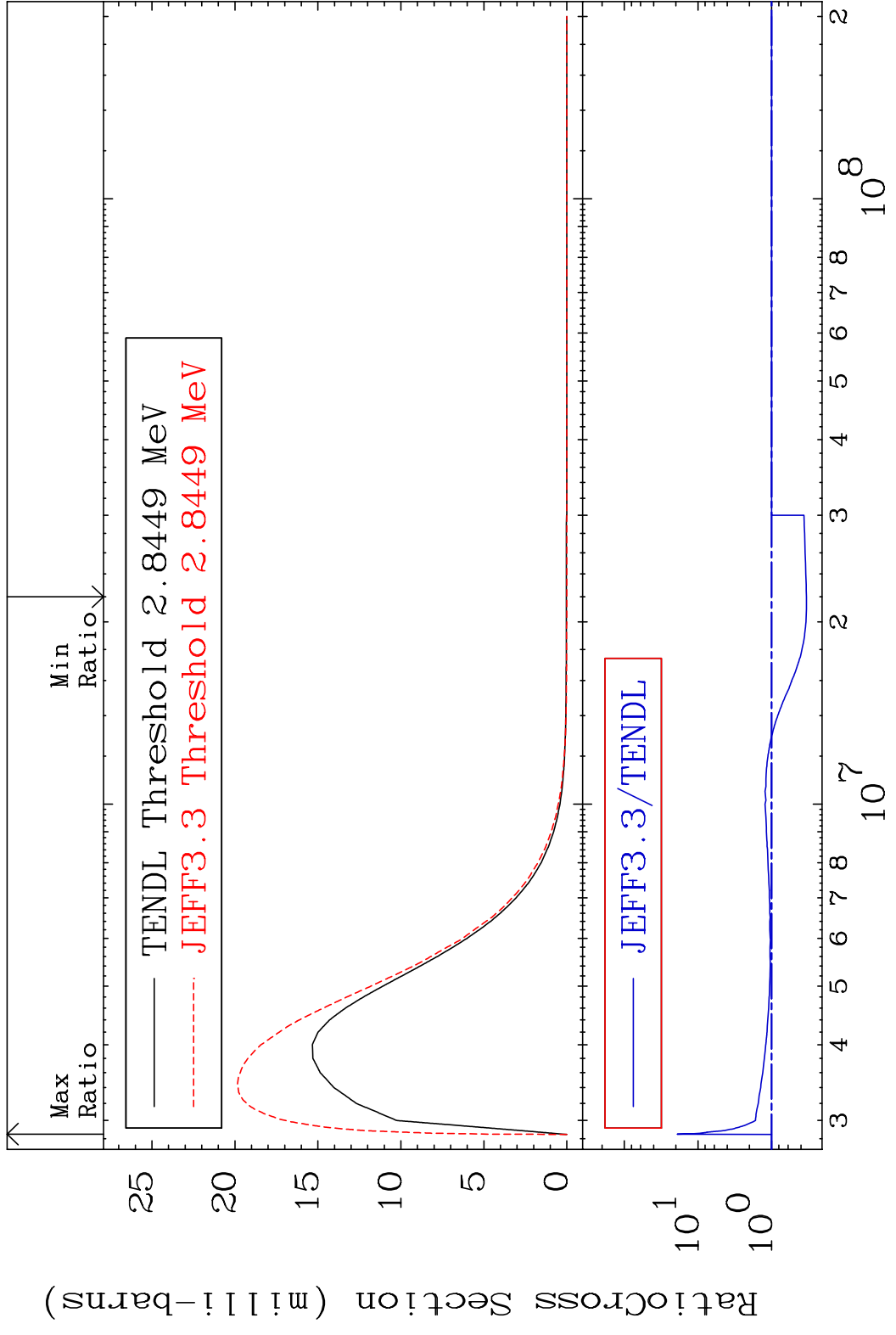


MAT 2228 MT= 78 (n,n') Level 22-Ti-47
 Cross Section -16.46 To 2430. %



43 Incident Energy (eV) 22-Ti-47

MAT 2228 MT= 79 (n, n') Level 22-Ti-47
 Cross Section -66.19 To 1814. %



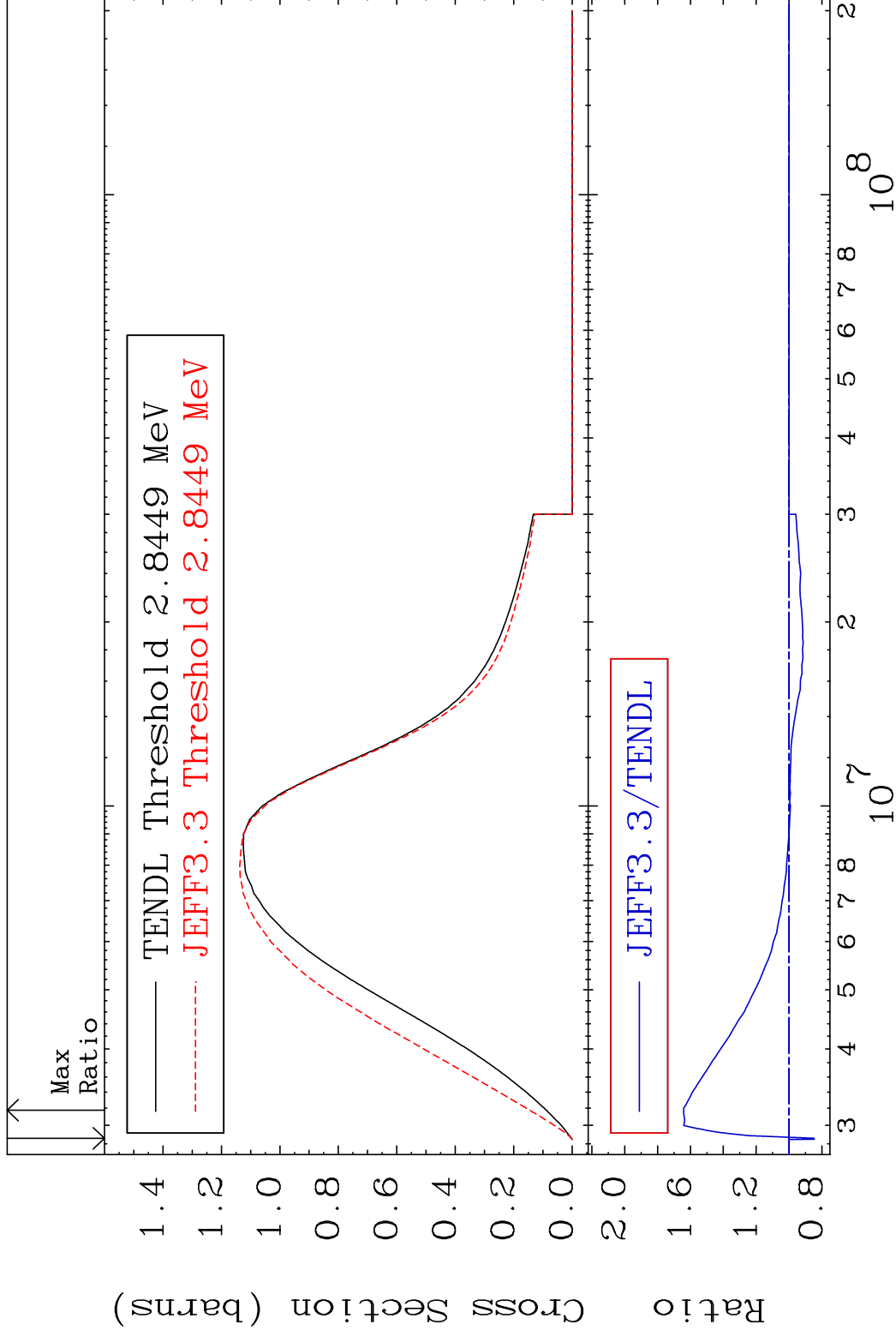
44 Incident Energy (eV) 22-Ti-47

MAT 2228

(n, n') Continuum

²²Ti-47

Cross Section -15.22 To 64.13 %



45

Incident Energy (eV)

²²Ti-47

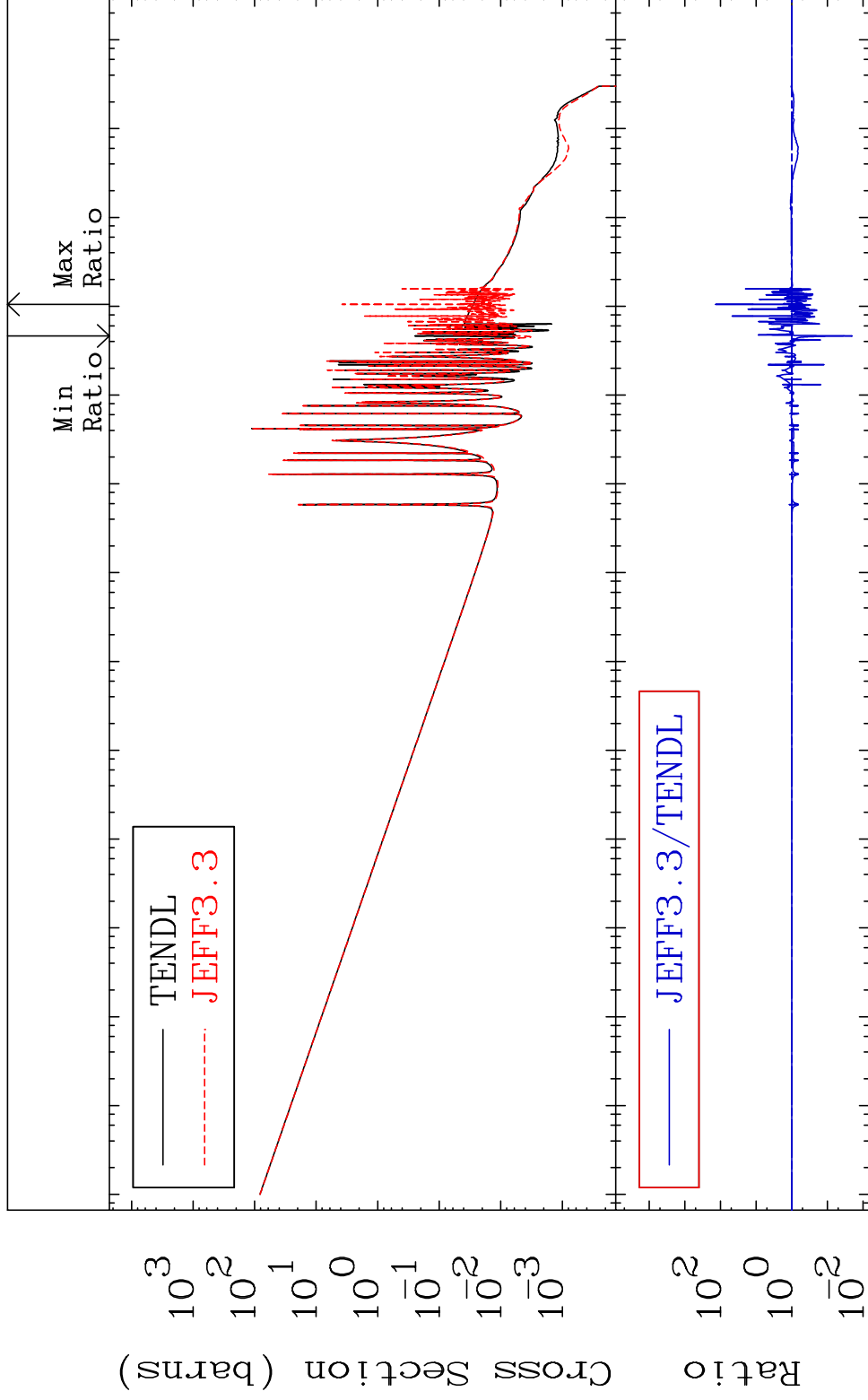
MAT 2228

(n, γ)

22-Ti-47

Cross Section

-97.99 To 9999. %



46

Incident Energy (eV)

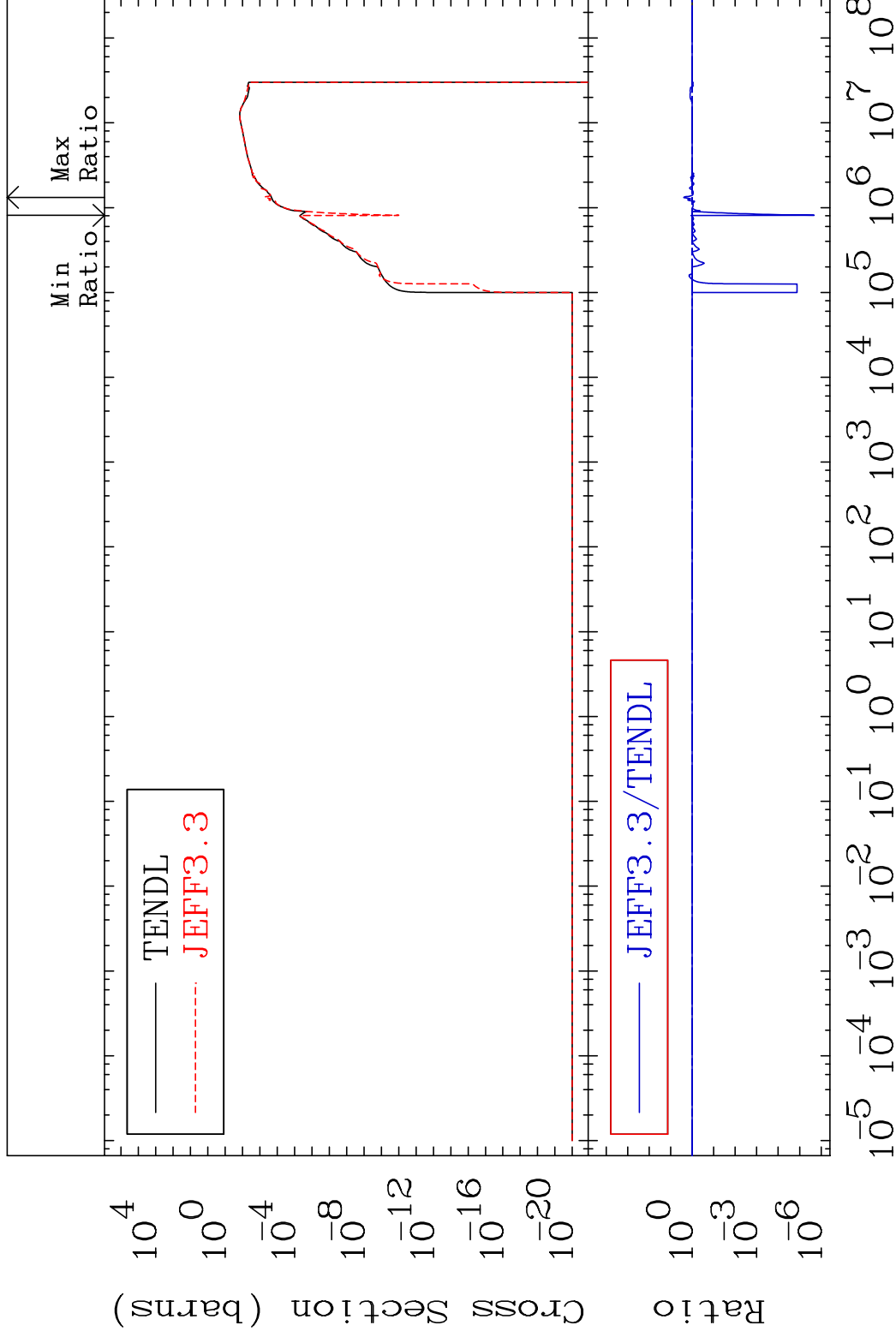
22-Ti-47

MAT 2228

(n, p)

²²Ti-47

Cross Section -100.0 To 149.7 %



47

Incident Energy (eV)

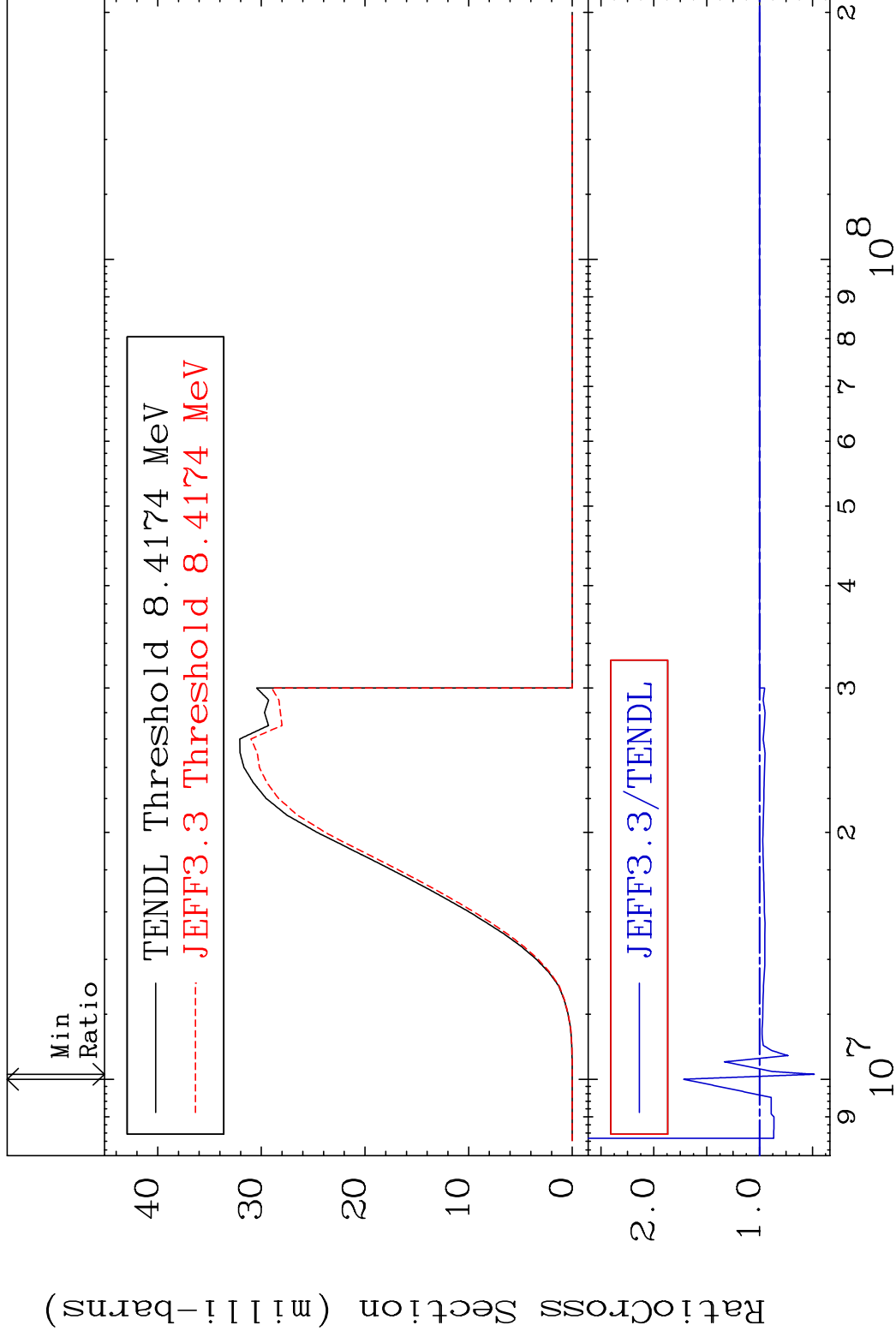
²²Ti-47

MAT 2228

(n, d)

²²Ti-47

Cross Section -51.57 To 71.82 %



48

Incident Energy (eV)

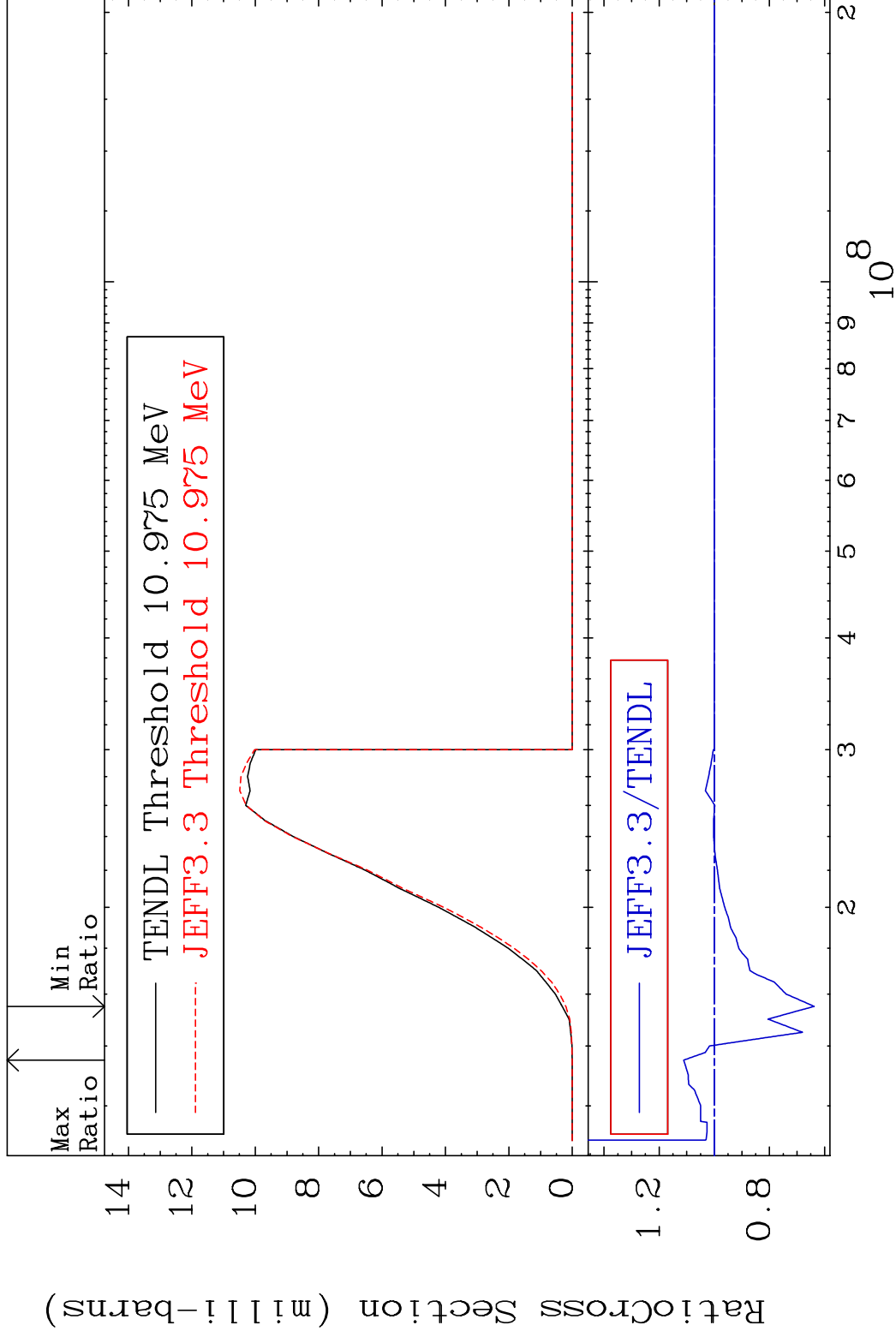
²²Ti-47

MAT 2228

(n, t)

²²Ti-47

Cross Section -36.19 To 11.12 %



49

Incident Energy (eV)

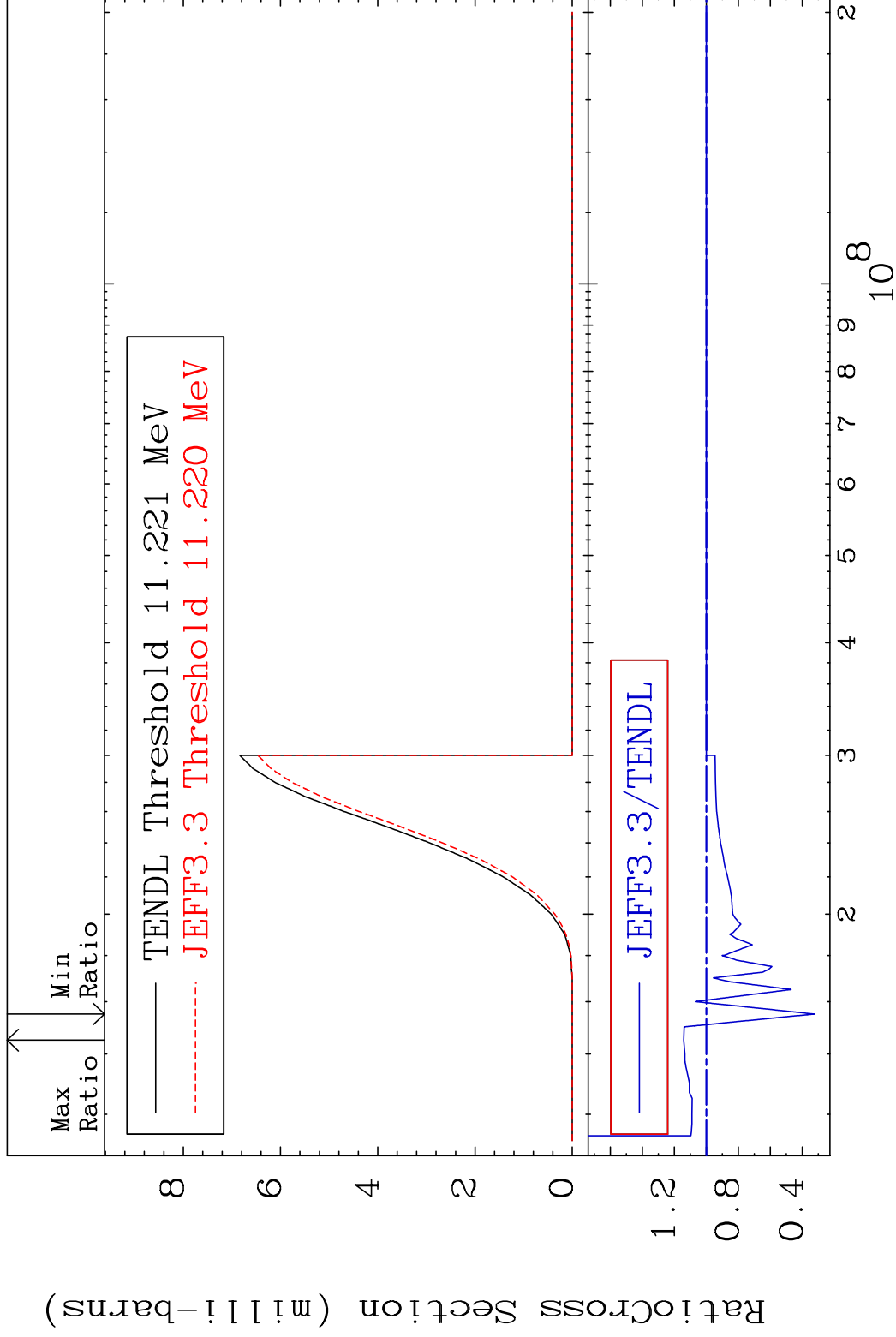
²²Ti-47

MAT 2228

(n, He-3)

²²Ti-47

Cross Section -67.44 To 14.14 %



50

Incident Energy (eV)

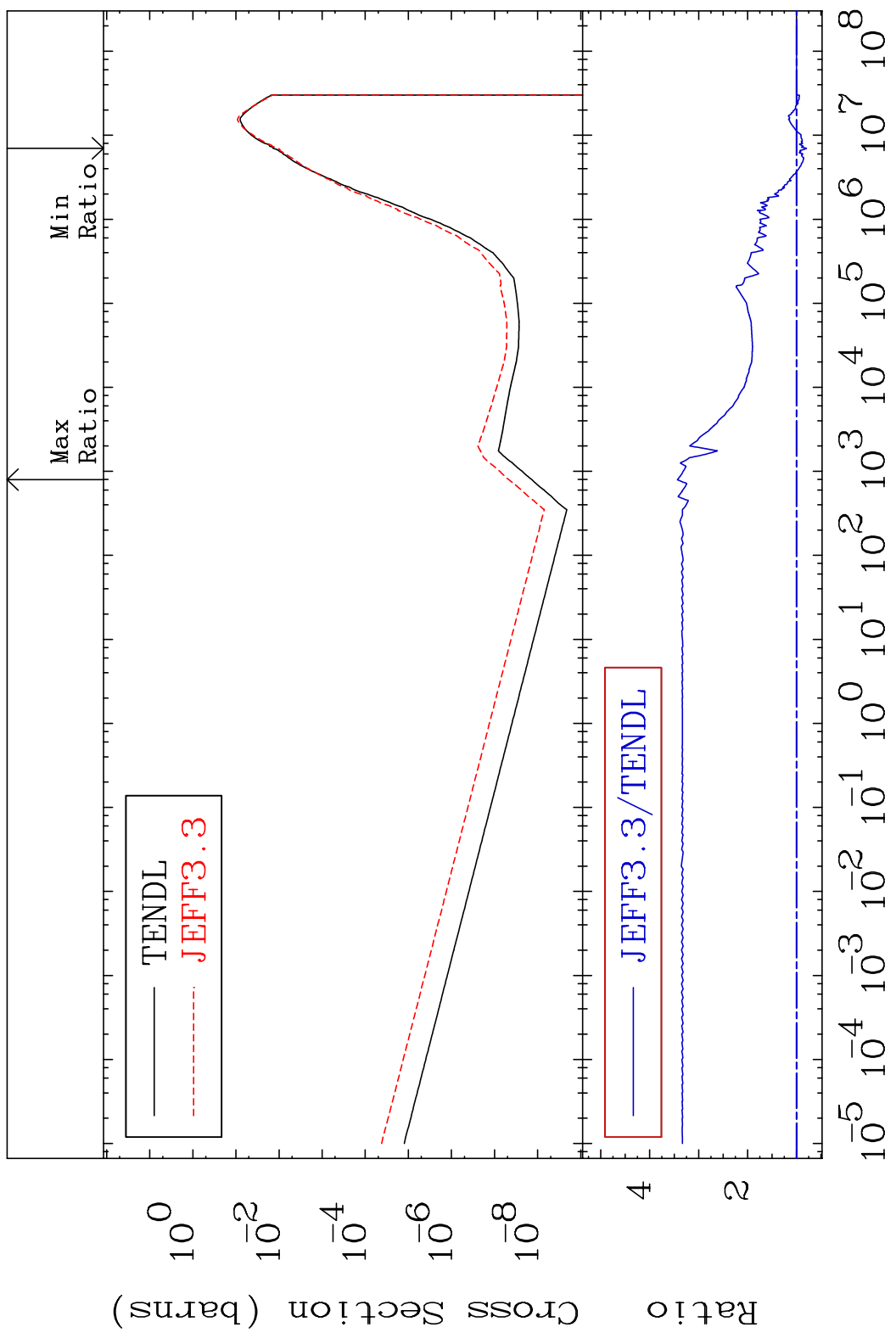
²²Ti-47

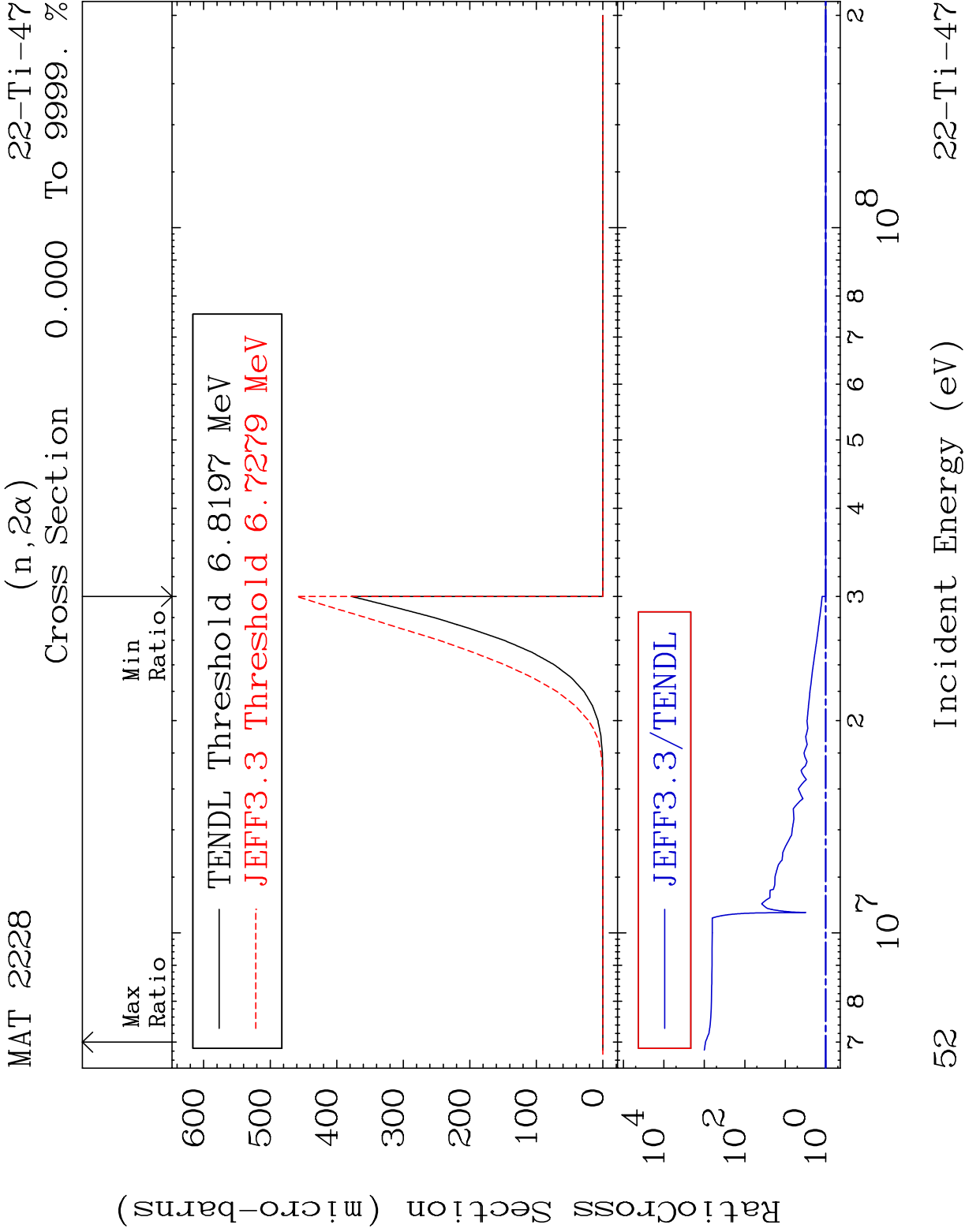
MAT 2228

(n, α)

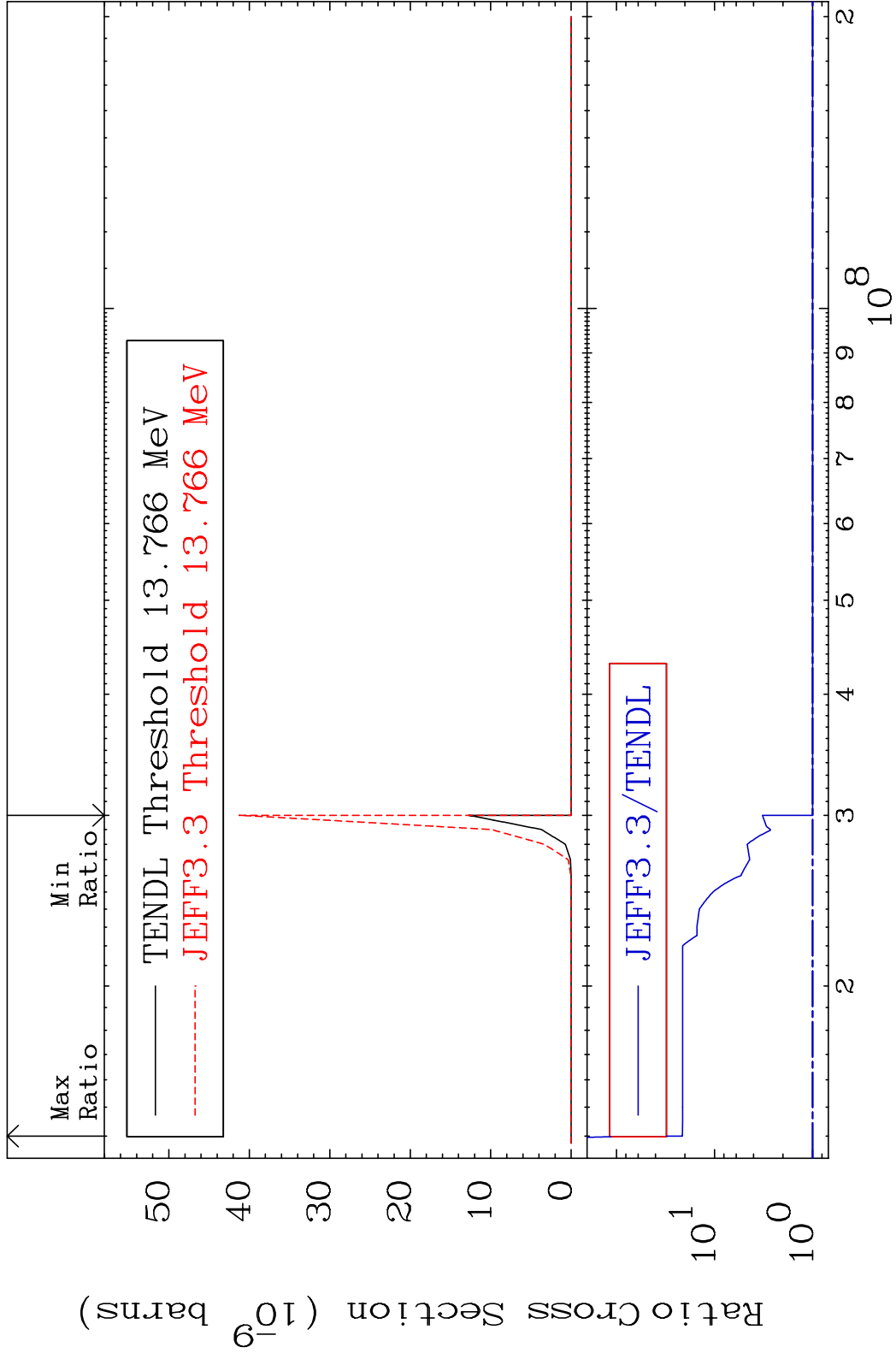
22-Ti-47

Cross Section -20.36 To 243.8 %

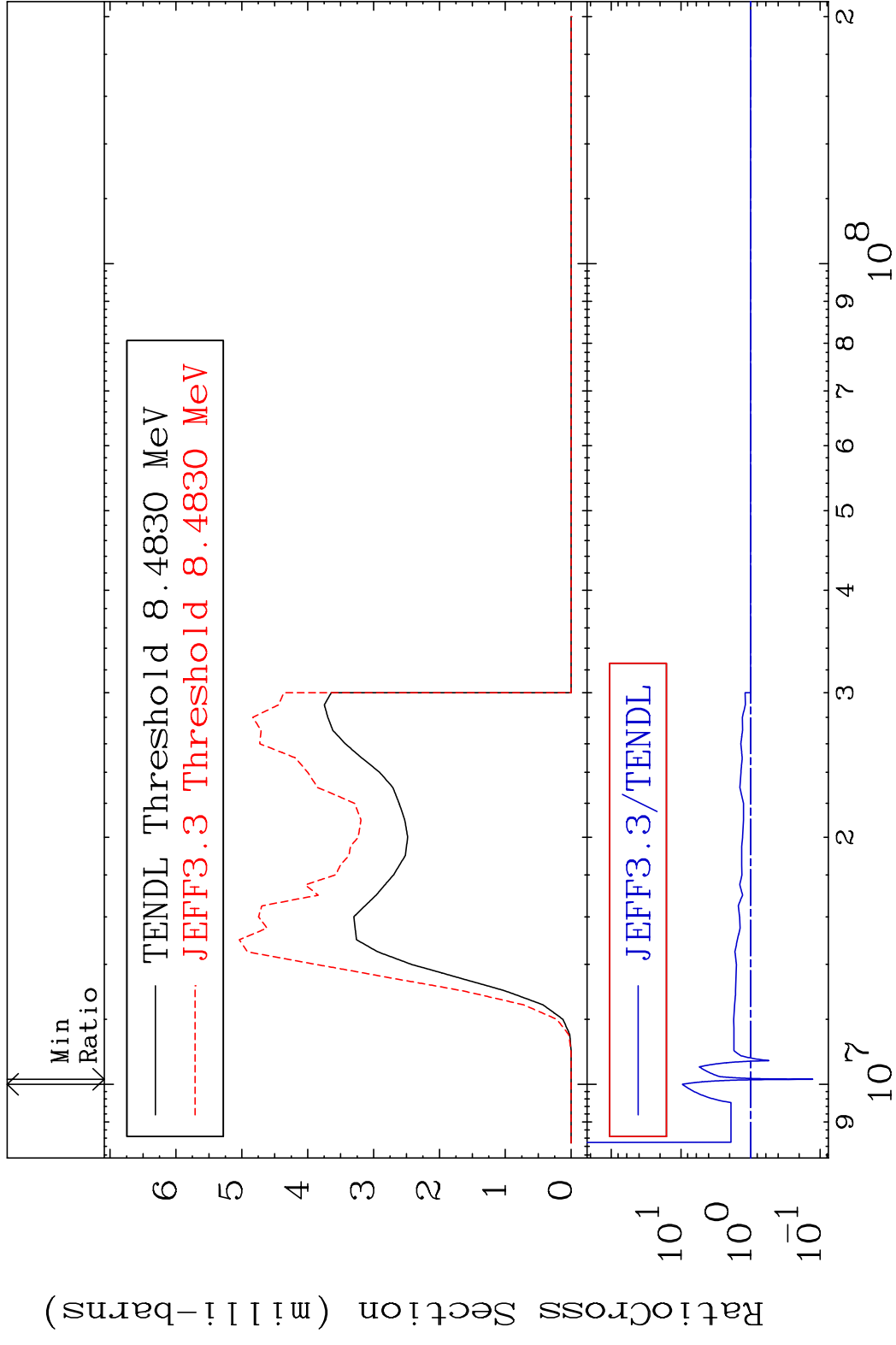




MAT 2228 (n,3α) 22-Ti-47
 Cross Section 0.000 To 2027. %



MAT 2228 (n,2p) 22-Ti-47
 Cross Section -87.16 To 854.0 %

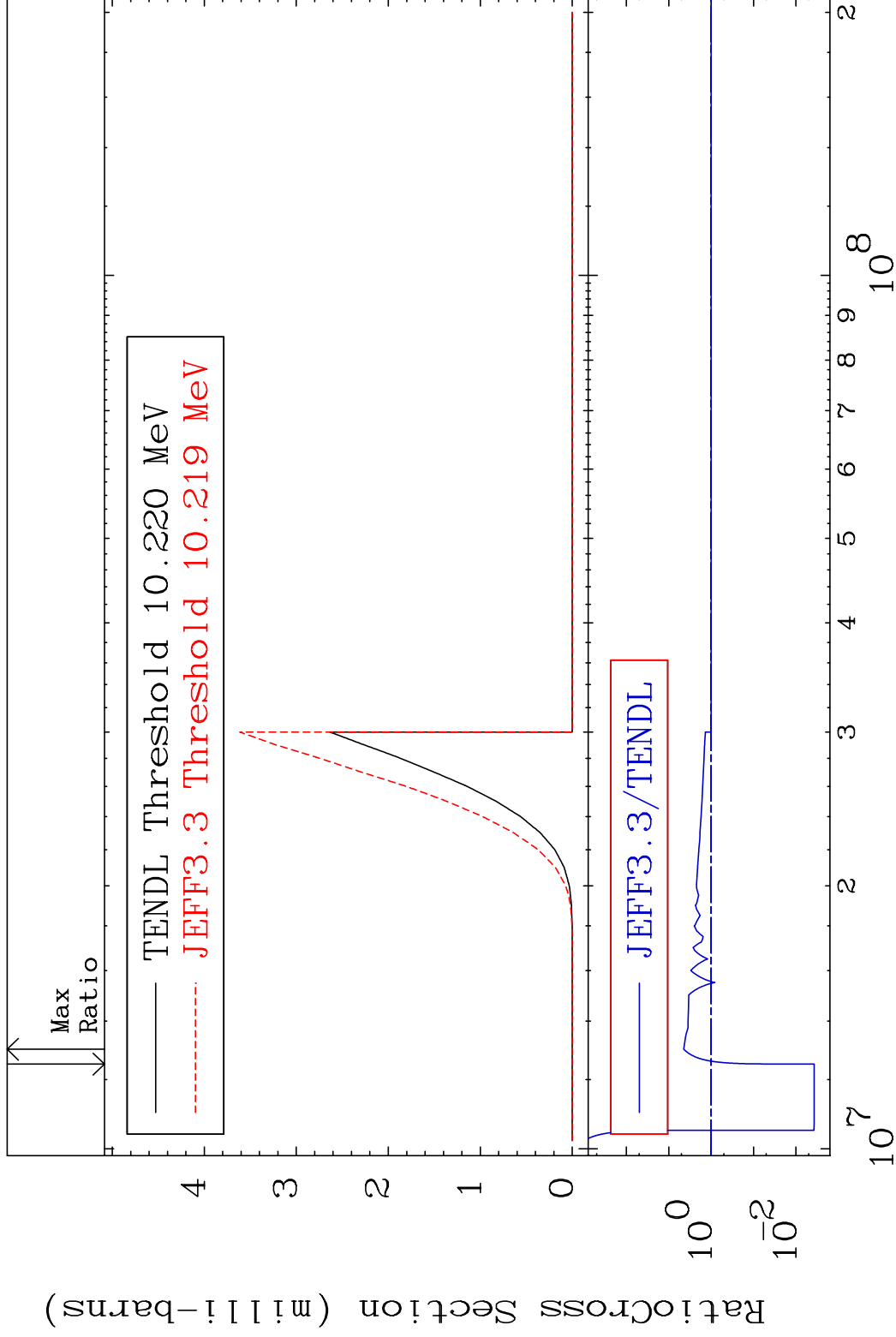


MAT 2228

(n,p) α

22-Ti-47

Cross Section -99.63 To 344.6 %



55

Incident Energy (eV)

22-Ti-47

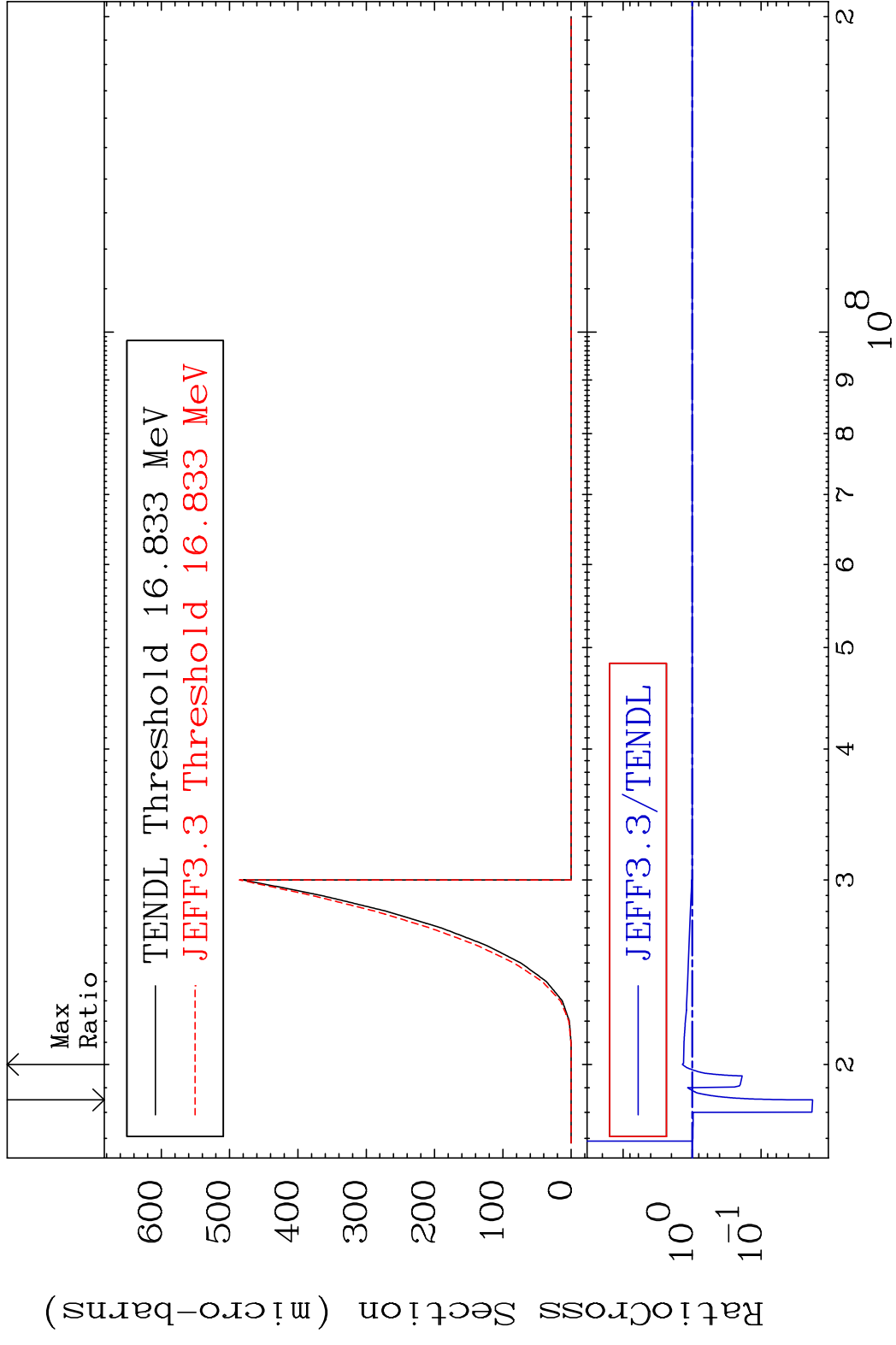
MAT 2228

(n,p) d

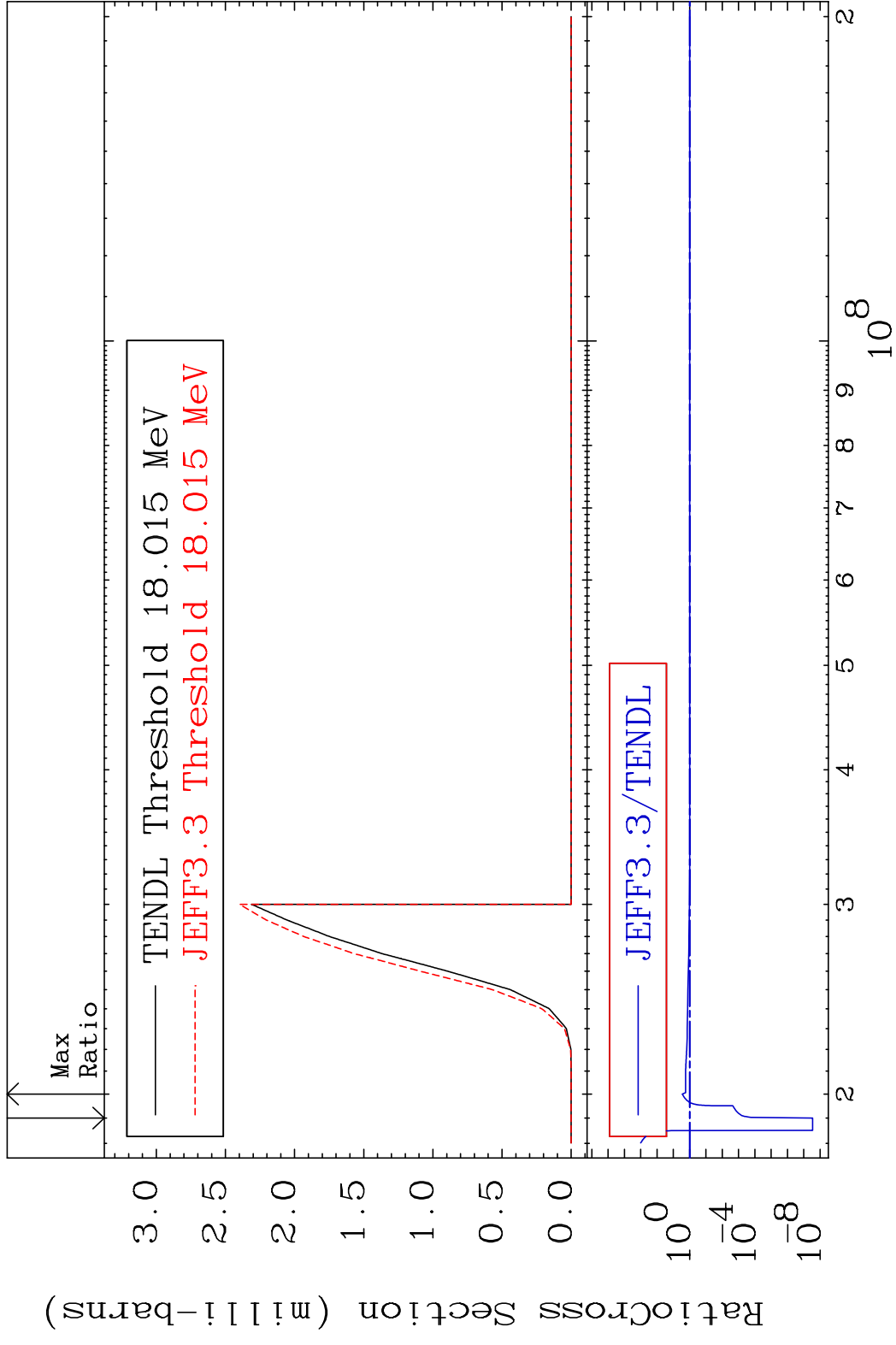
22-Ti-47

Cross Section

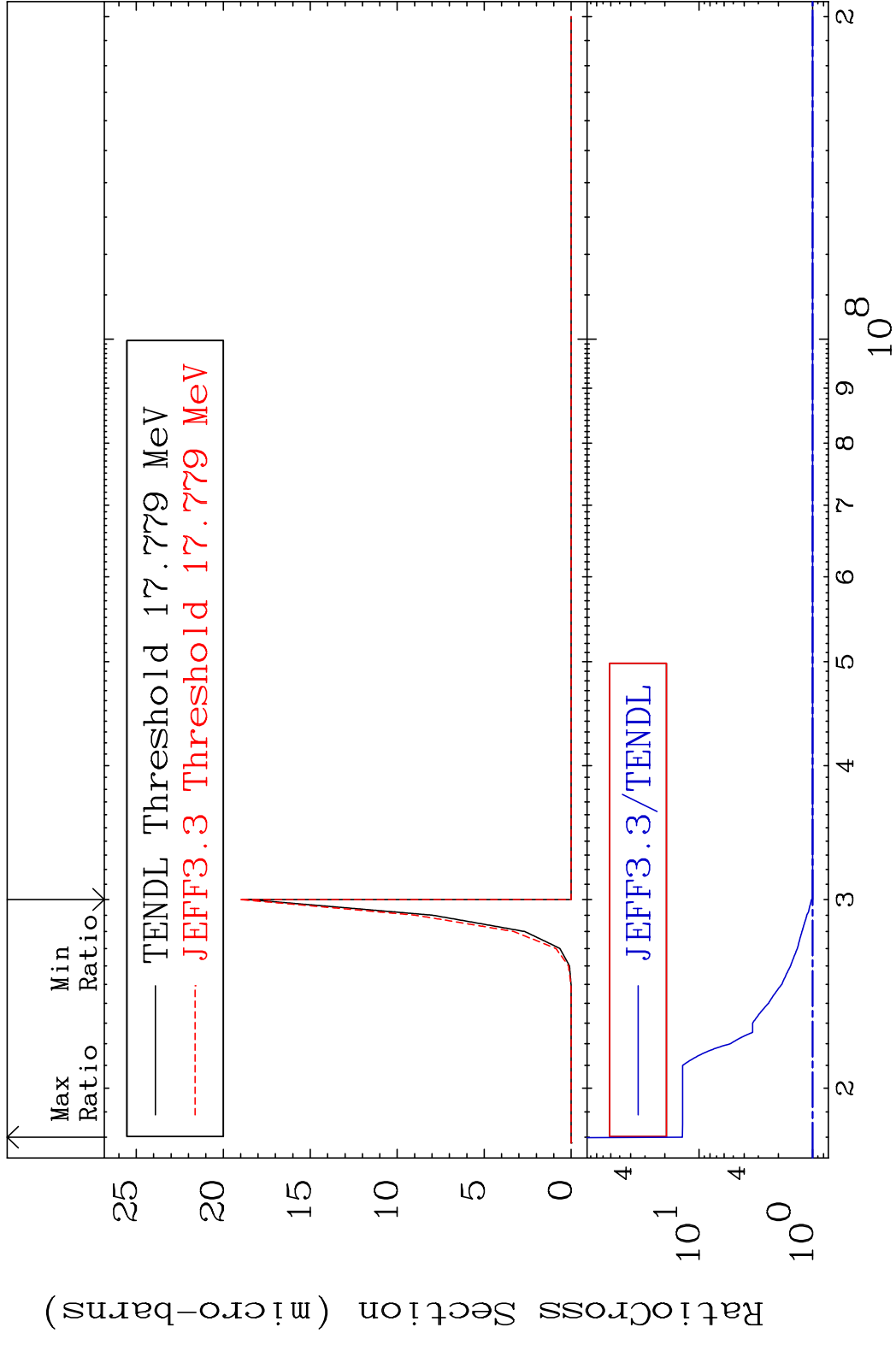
-98.21 To 38.58 %



MAT 2228 (n,p) t 22-Ti-47
 Cross Section -100.0 To 180.7 %



MAT 2228 (n,d) α $^{22}\text{Ti-47}$
 Cross Section 0.000 To 1303. %

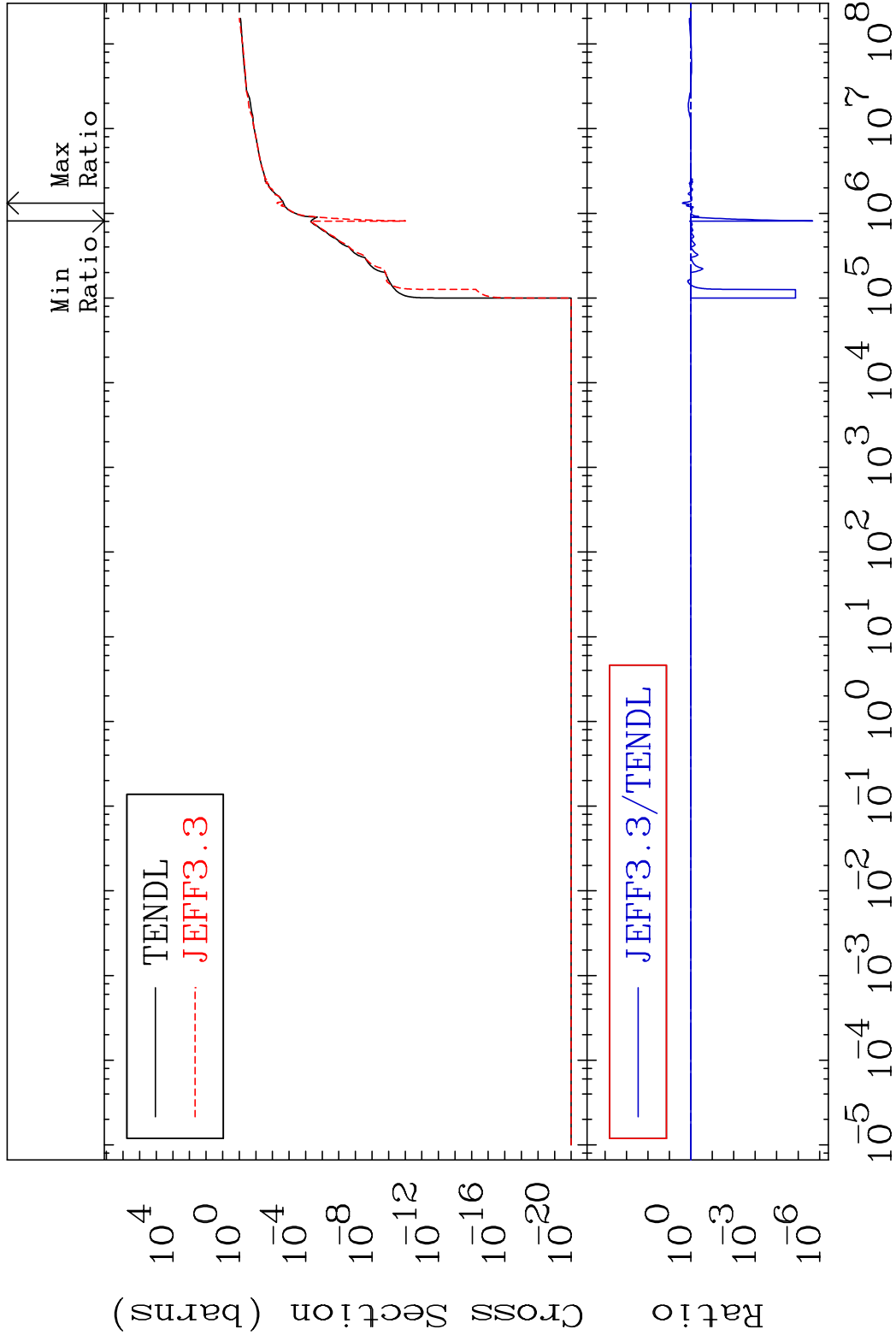


MAT 2228

Hydrogen Production

²²Ti-47

Cross Section -100.0 To 149.7 %

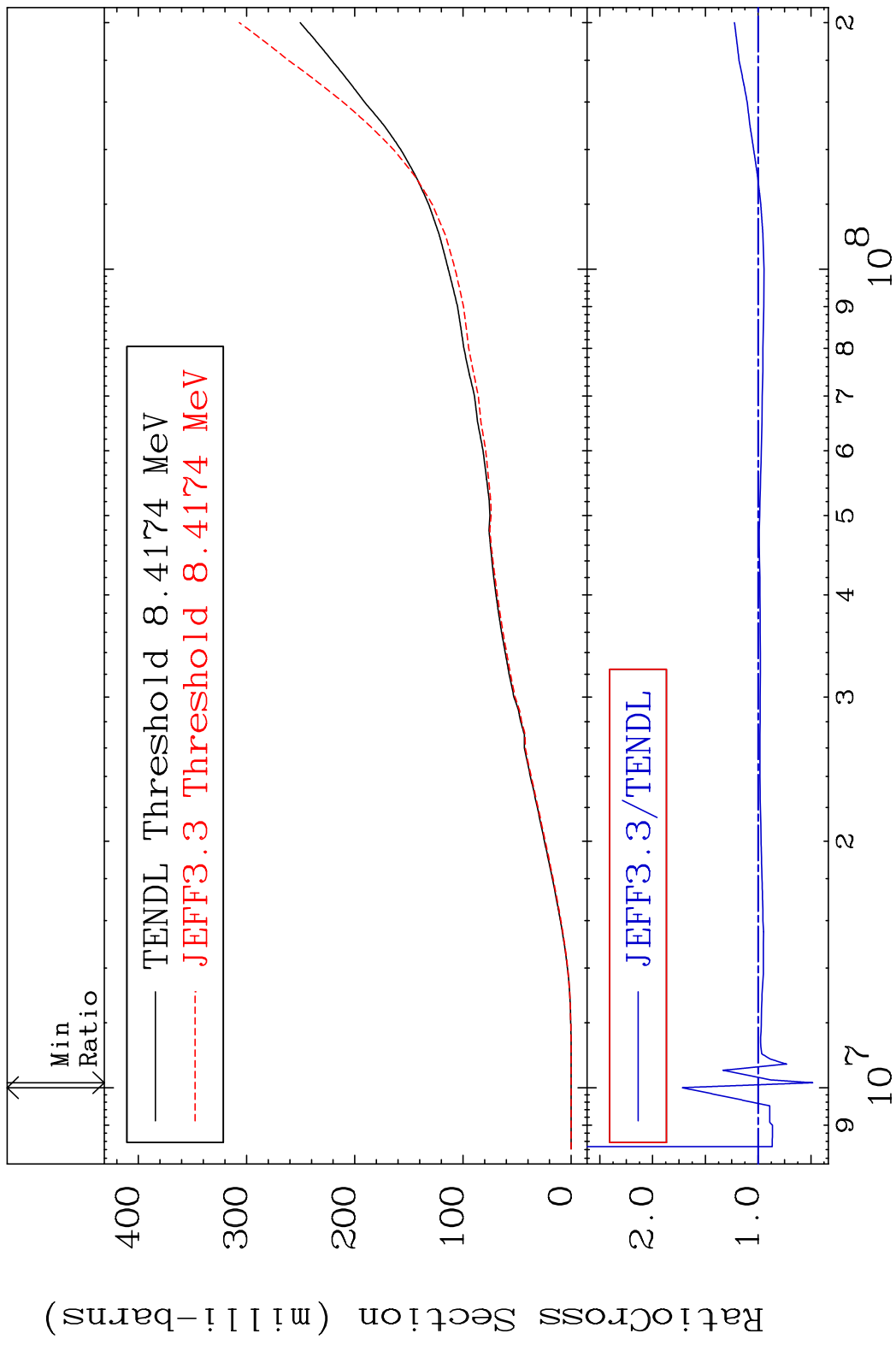


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Incident Energy (eV)

²²Ti-47

MAT 2228 Deuterium Production $^{22}\text{Ti-47}$
Cross Section -51.57 To 71.82 %



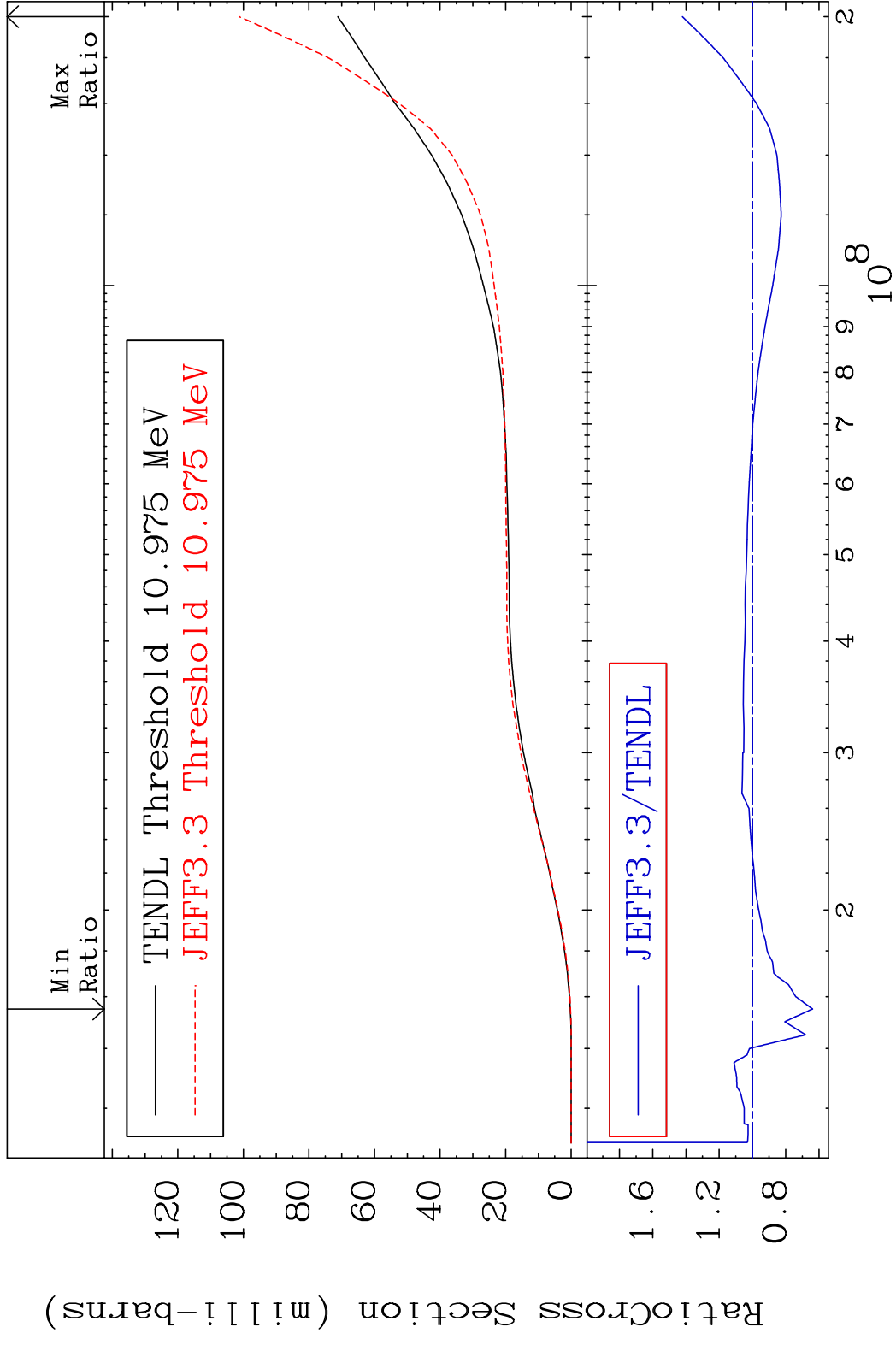
60 $^{22}\text{Ti-47}$

MAT 2228

Tritium Production

²²Ti-47

Cross Section -36.19 To 42.16 %

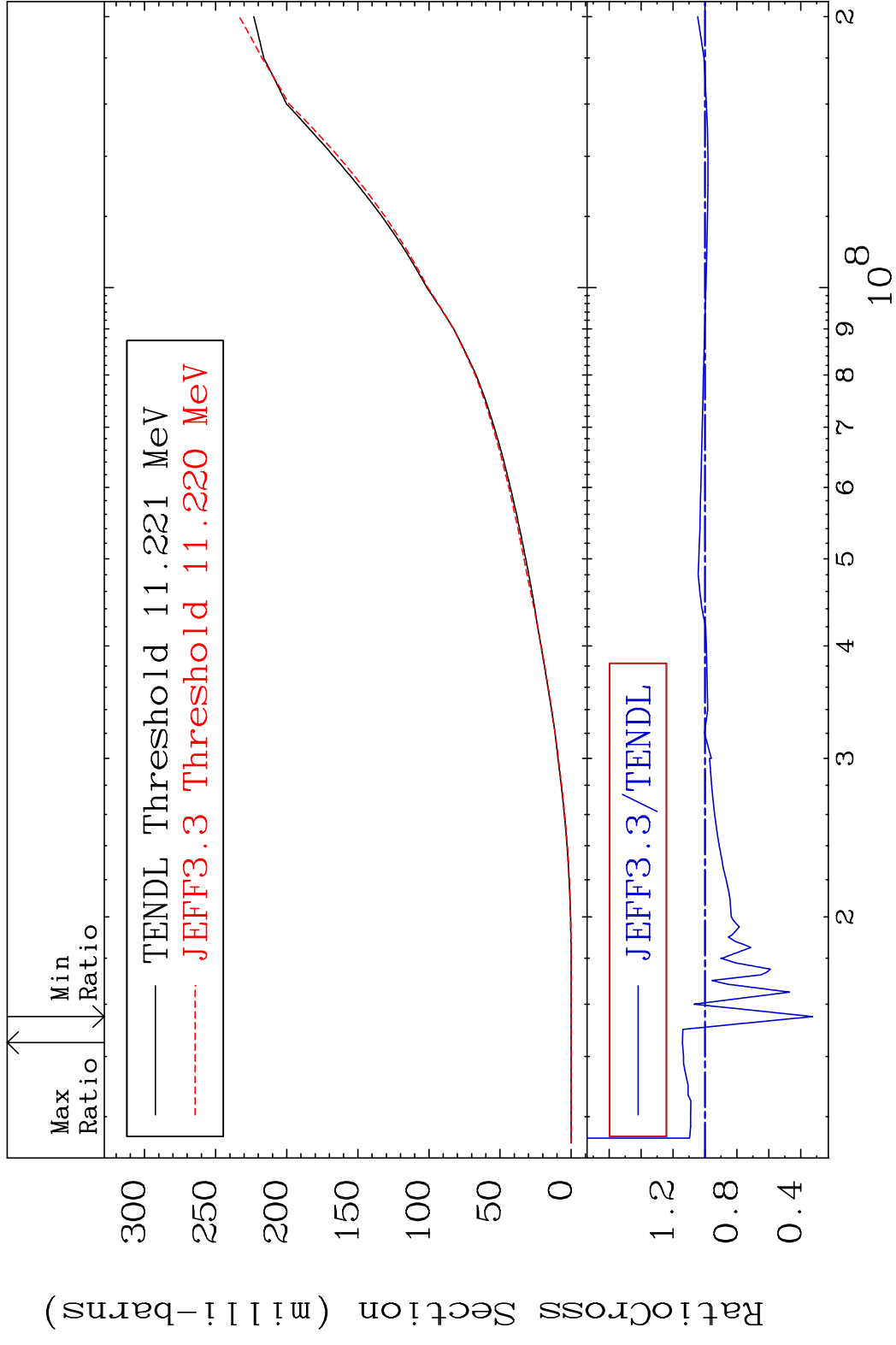


MAT 2228

He-3 Production

²²Ti-47

Cross Section -67.44 To 14.14 %

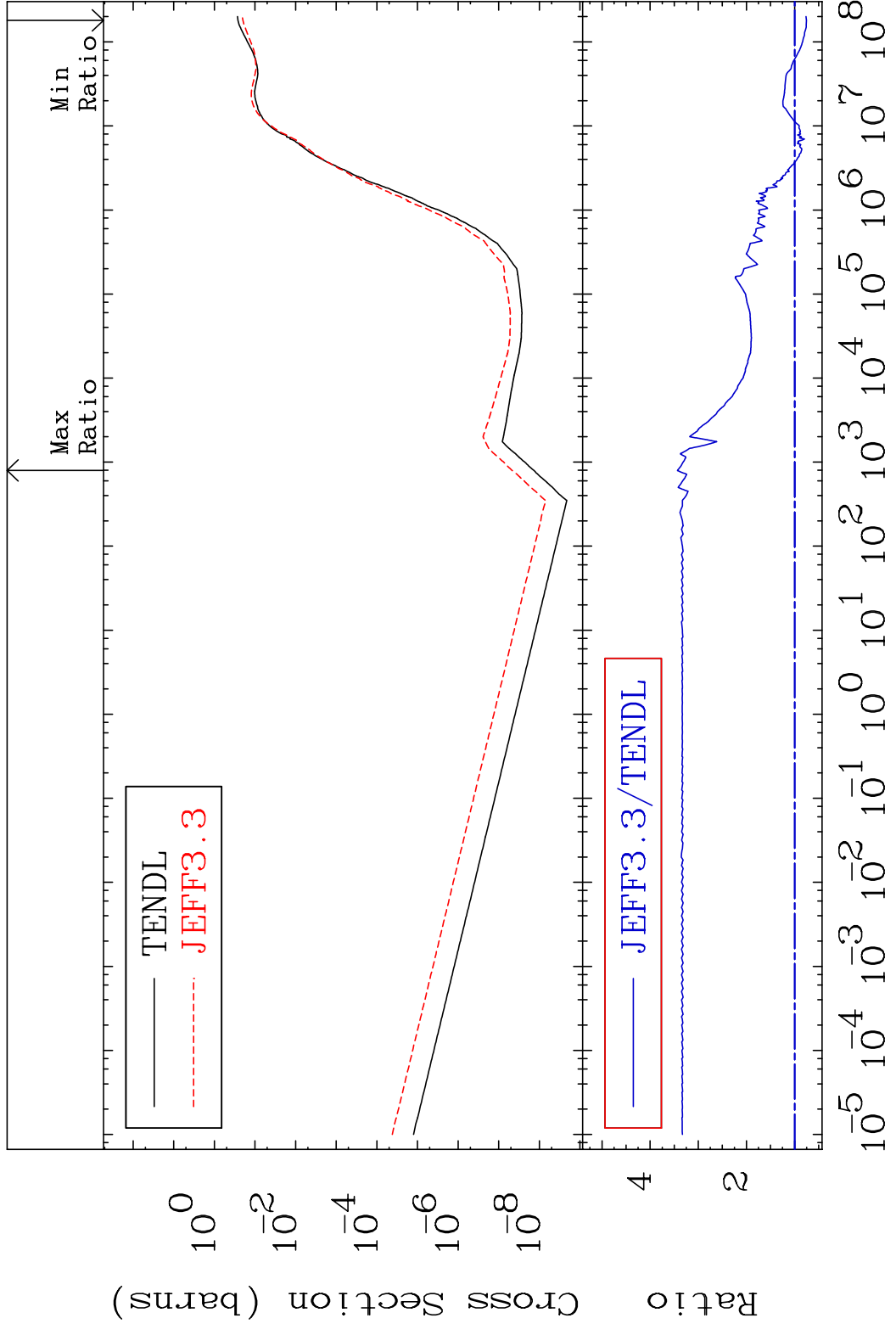


MAT 2228

He-4 Production

22-Ti-47

Cross Section -24.51 To 243.8 %

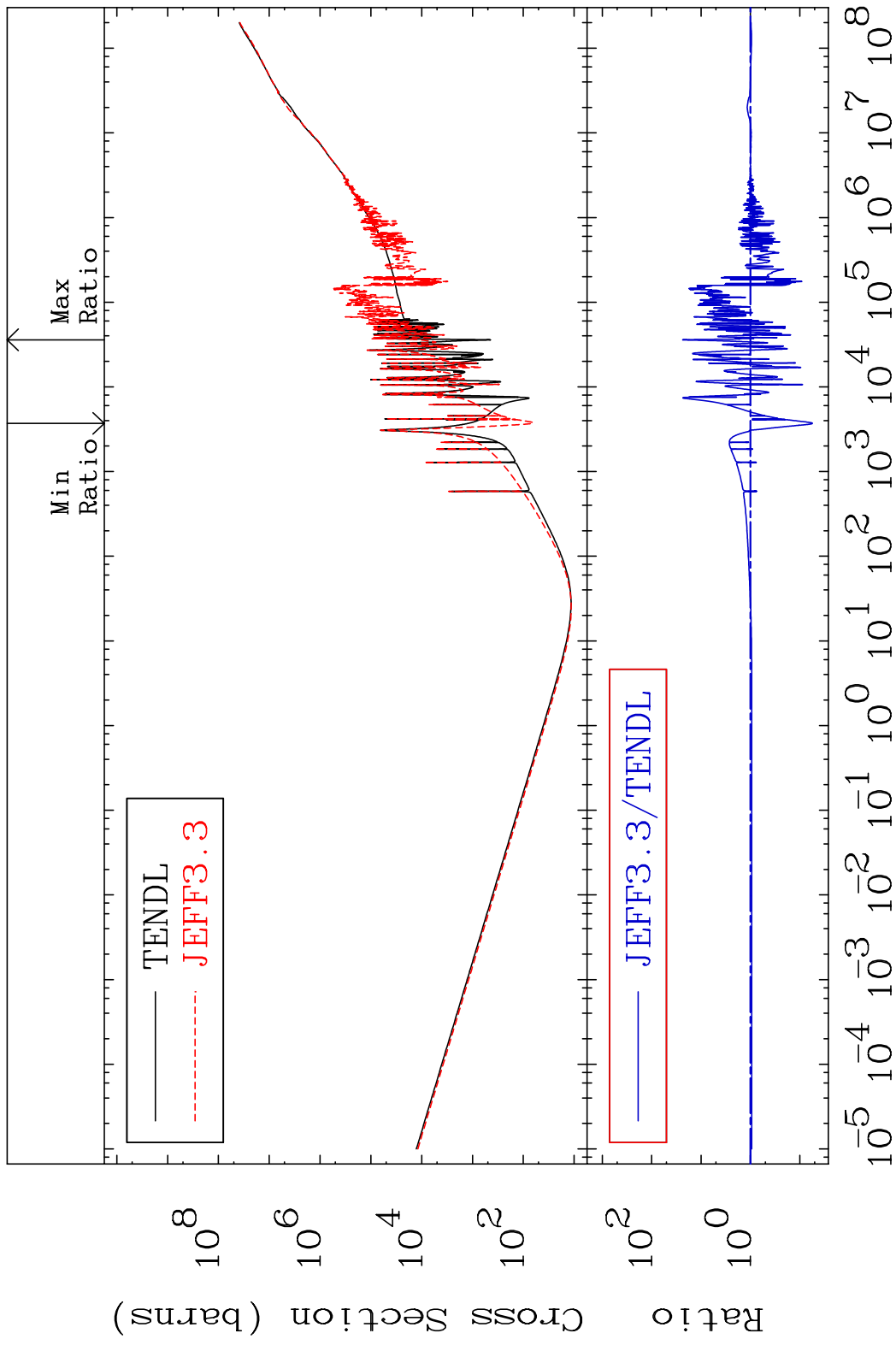


63

Incident Energy (eV)

22-Ti-47

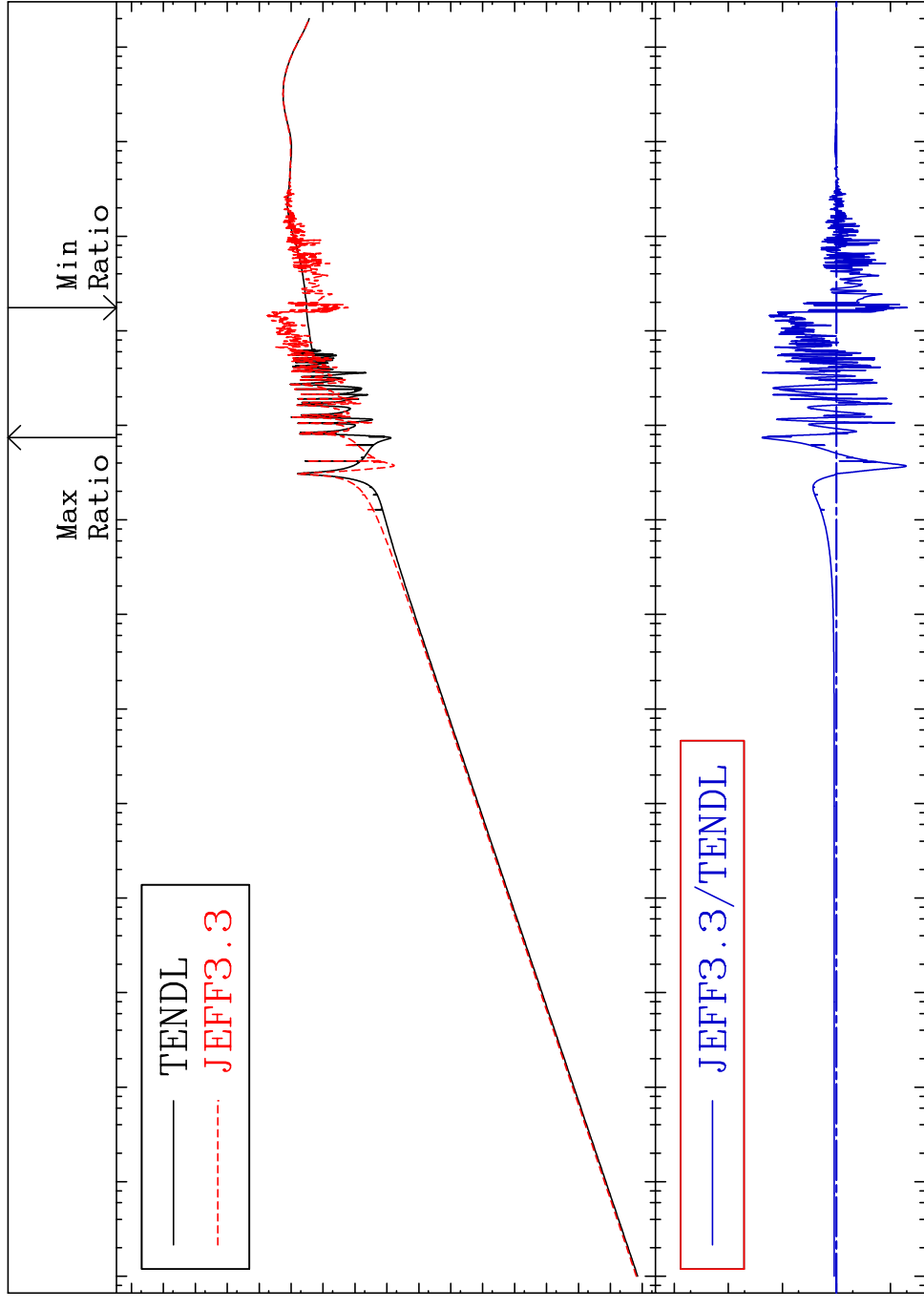
MAT 2228 Kerma total (eV-barns) 22-Ti-47
 Cross Section -94.47 To 2288. %



MAT 2228

Kerma elastic
Cross Section

22-Ti-47
-95.11 To 2302. %

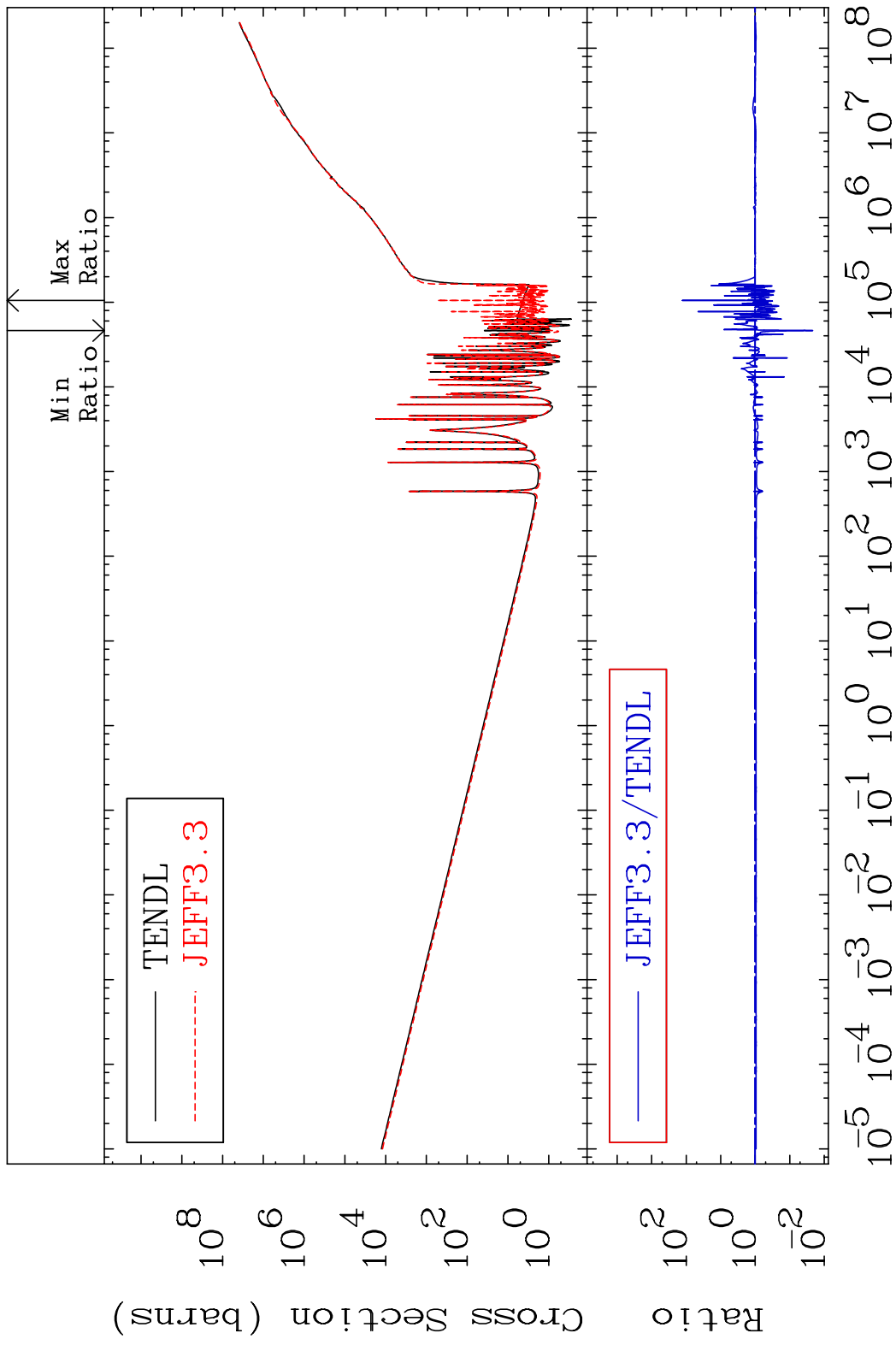


Ratio
Cross Section (barns)
Incident Energy (eV)

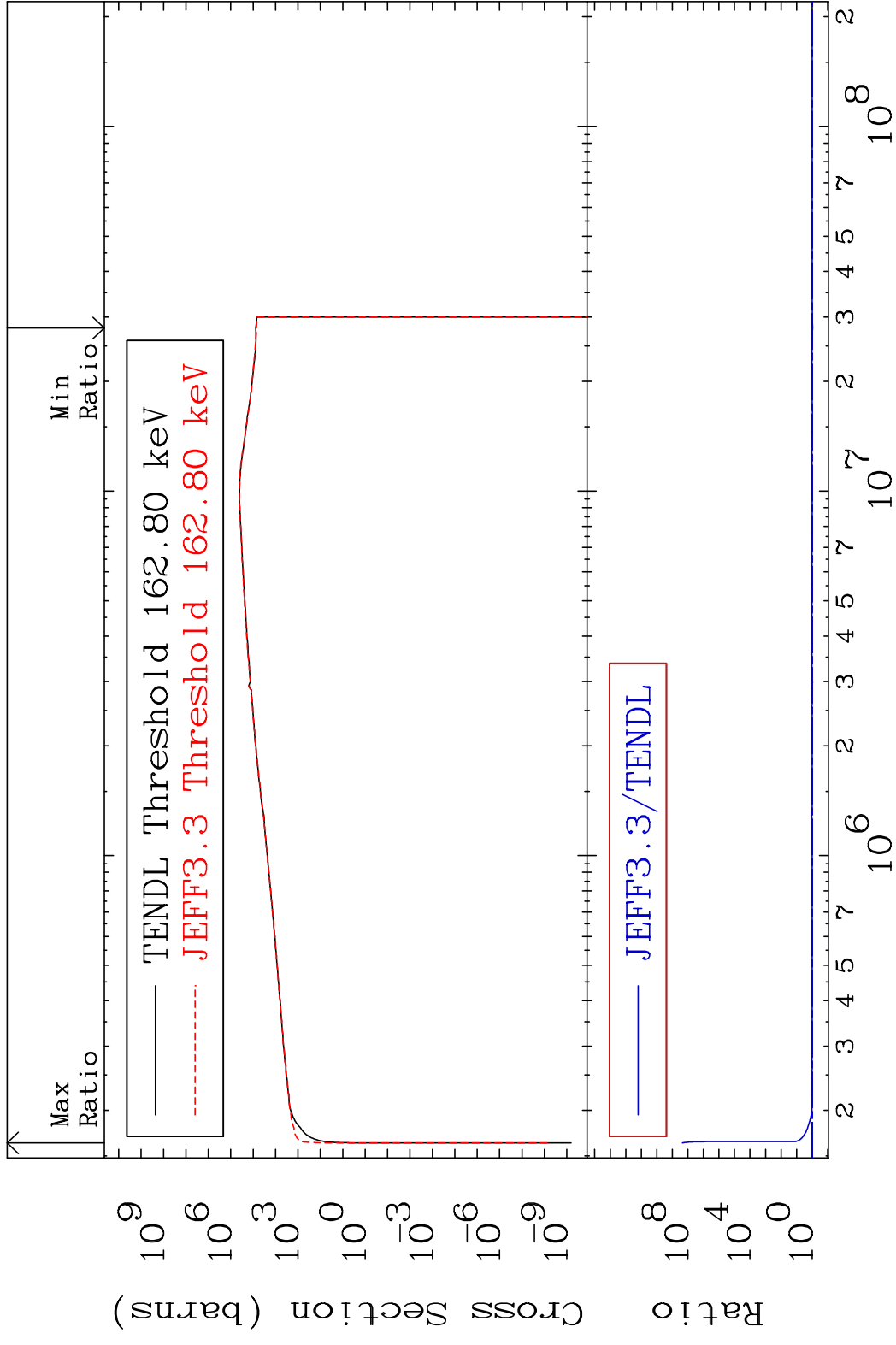
65

22-Ti-47

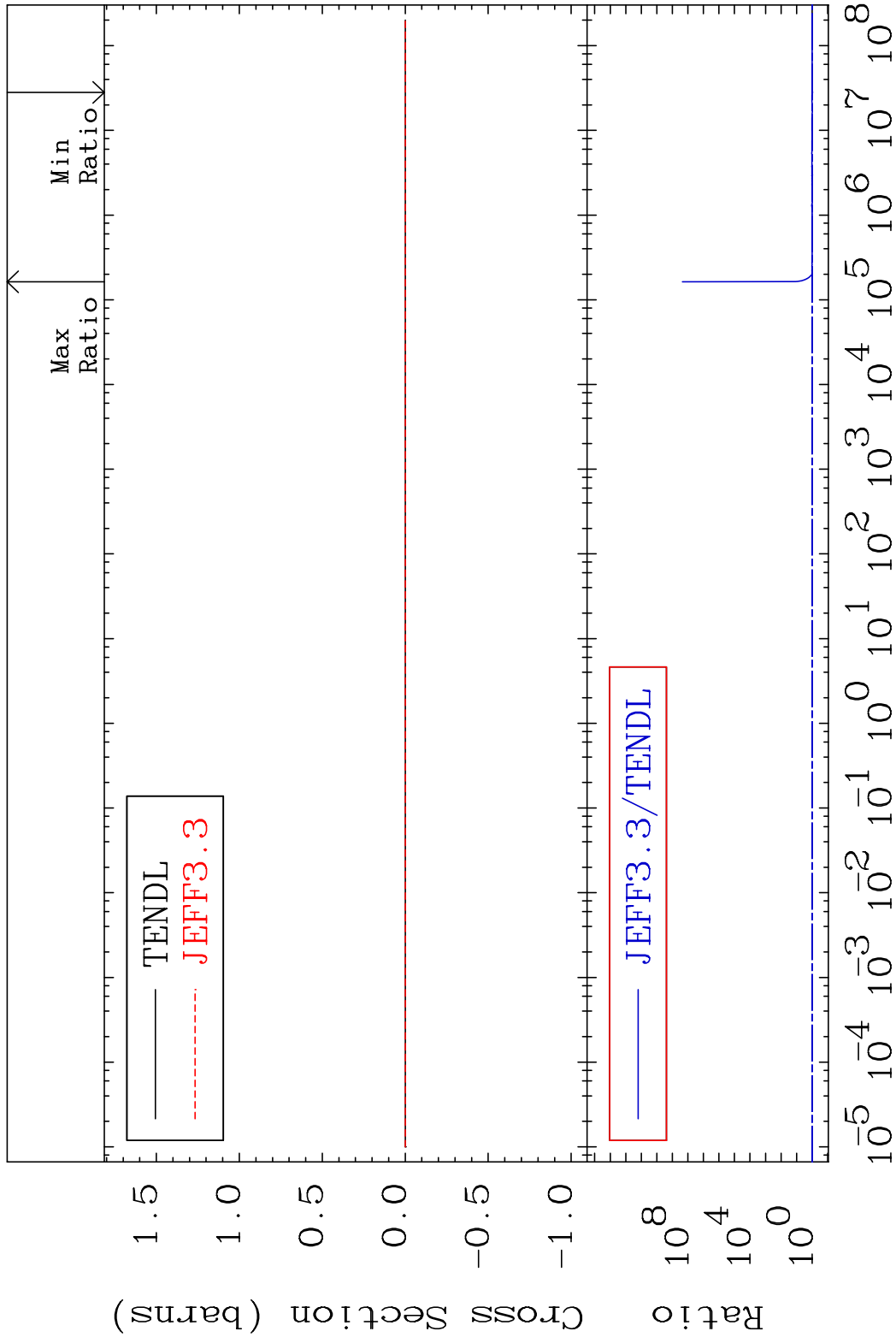
MAT 2228 Kerma non-elastic (all but mt2) 22-Ti-47
 Cross Section -97.82 To 9999. %



MAT 2228 Kerma inelastic (mt51-91) 22-Ti-47
 Cross Section -6.212 To 9999. %

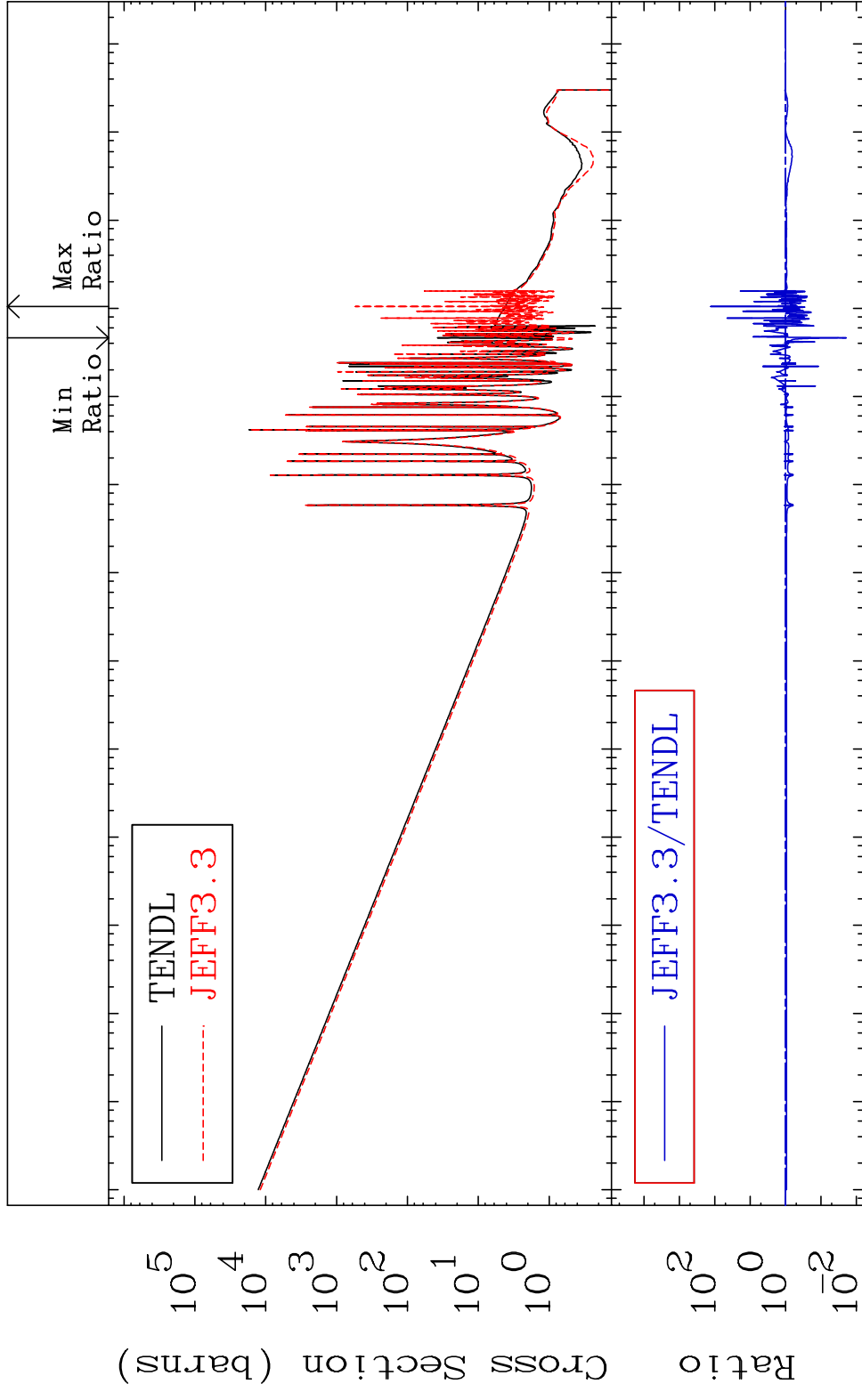


MAT 2228 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-47
 Cross Section -6.212 To 9999. %



MAT 2228

Kerma capture (mt102) 22-Ti-47
Cross Section -98.08 To 9999. %

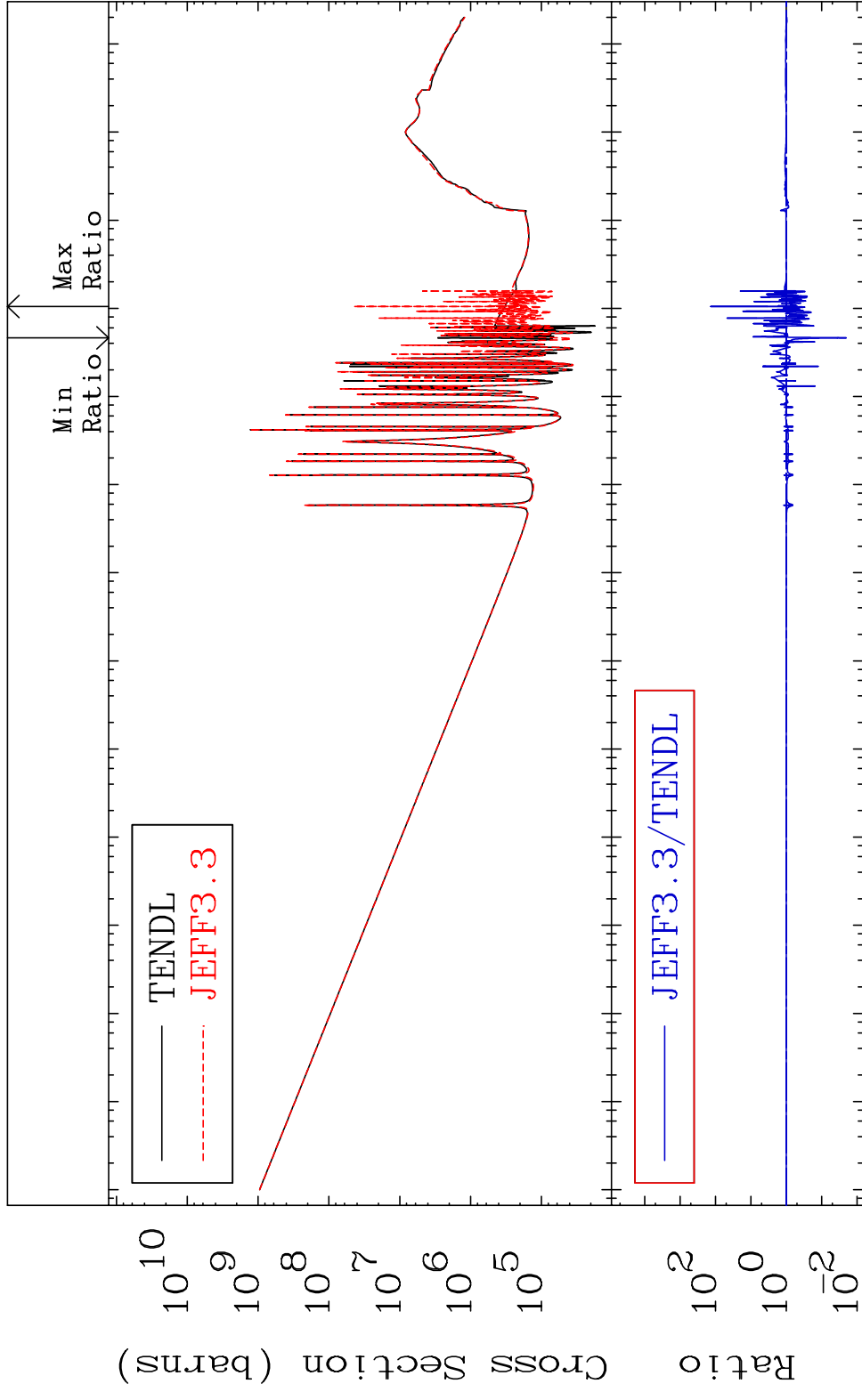


69

Incident Energy (eV)

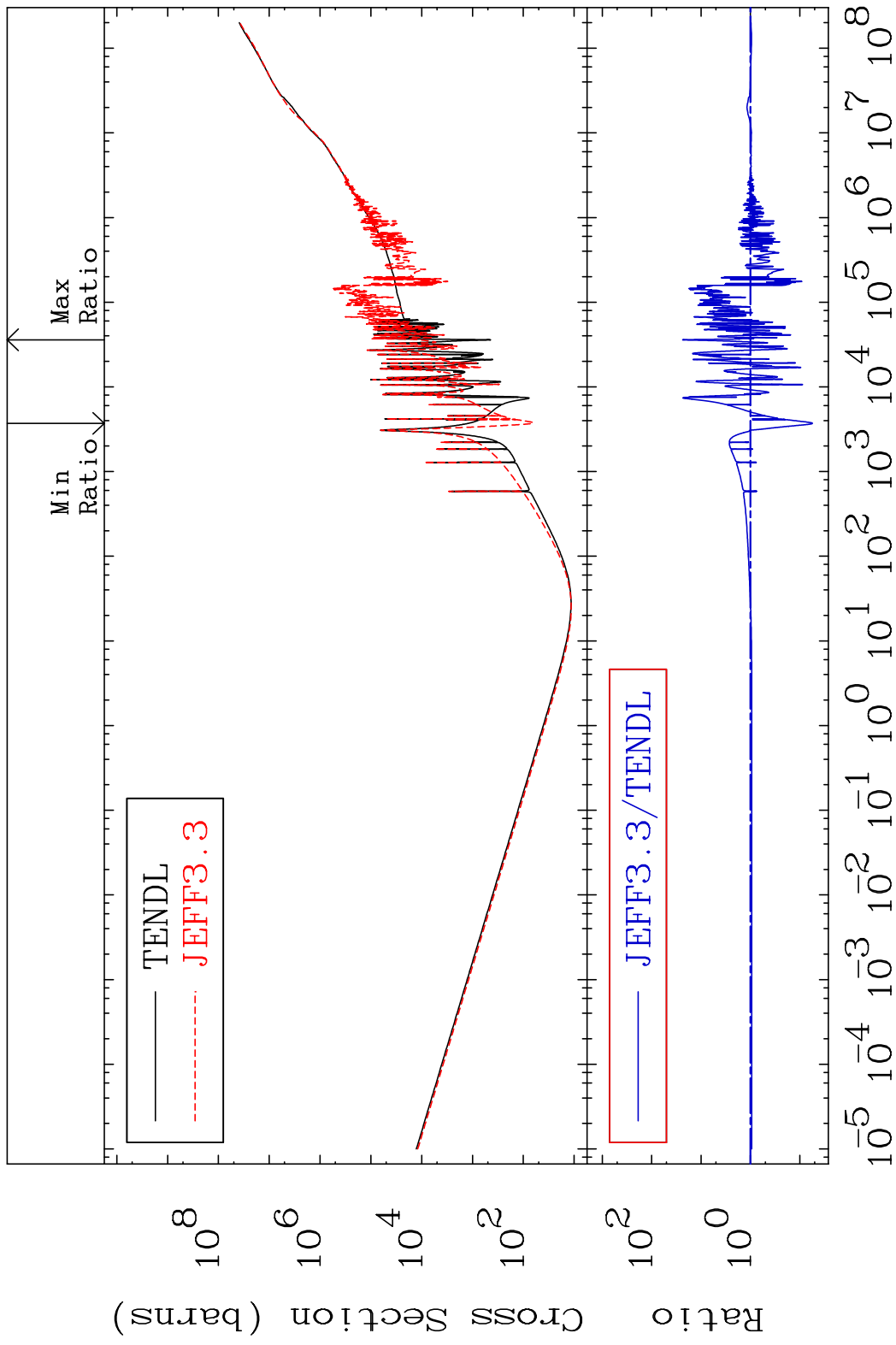
22-Ti-47

MAT 2228 Total photon (eV-barns) 22-Ti-47
Cross Section -97.99 To 9999. %

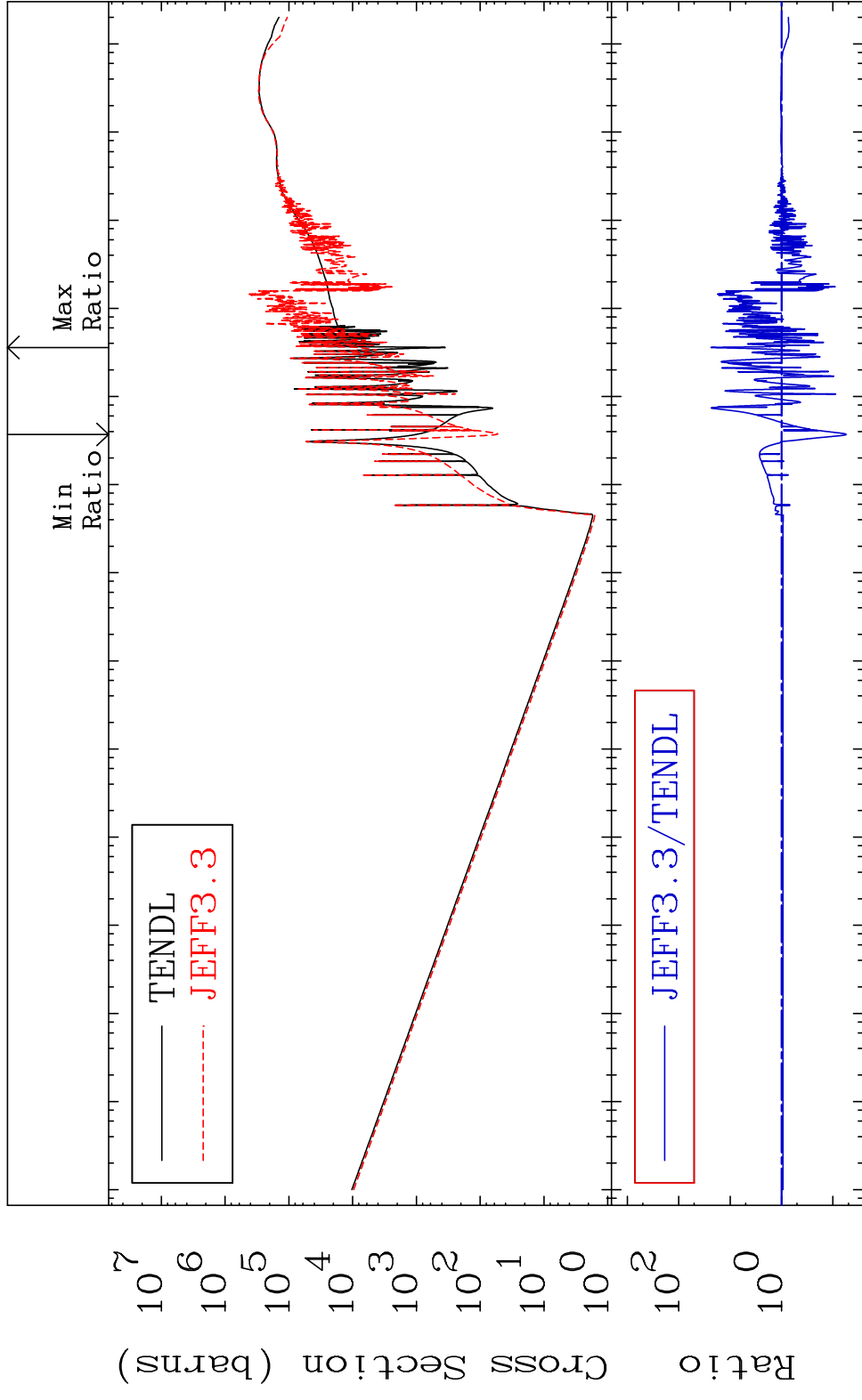


70 Incident Energy (eV) 22-Ti-47

MAT 2228 Total kinematic kerma (high limit) 22-Ti-47
 Cross Section -94.47 To 2288. %



MAT 2228 Dpa total (eV-barns) 22-Ti-47
 Cross Section -94.51 To 2288. %



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

Incident Energy (eV) 10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

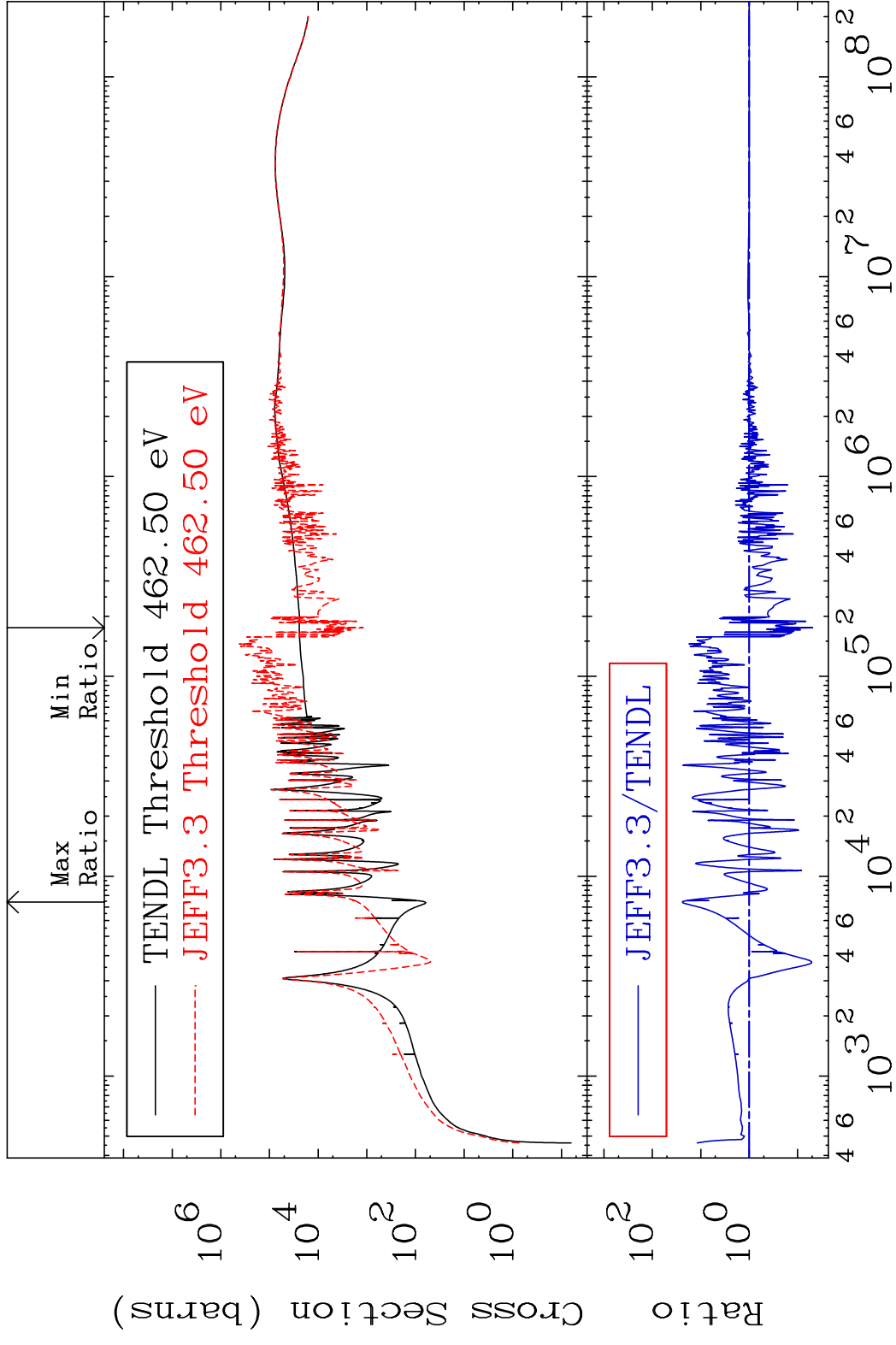
72 22-Ti-47

MAT 2228

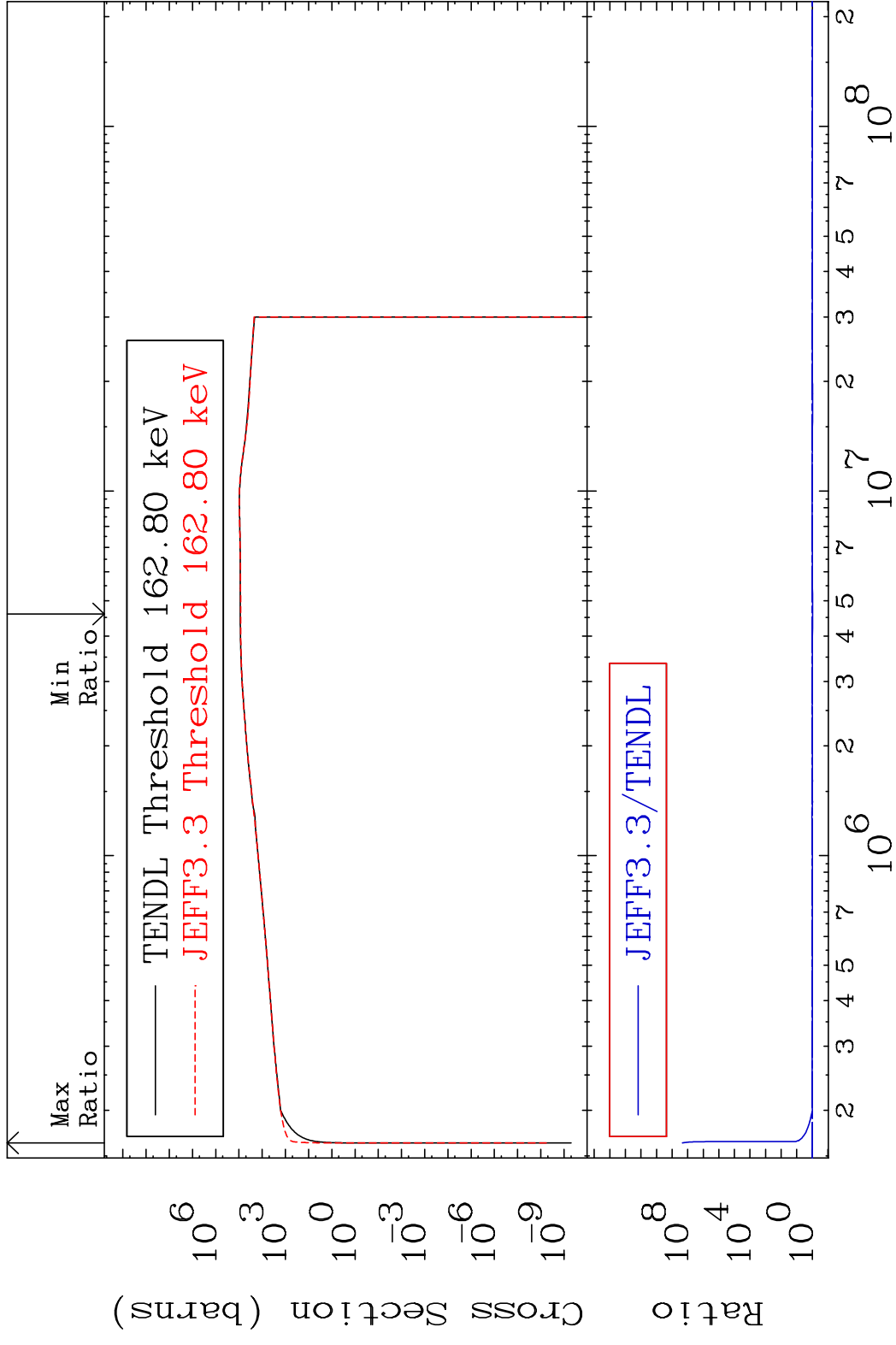
Dpa elastic (mt2)

22-Ti-47

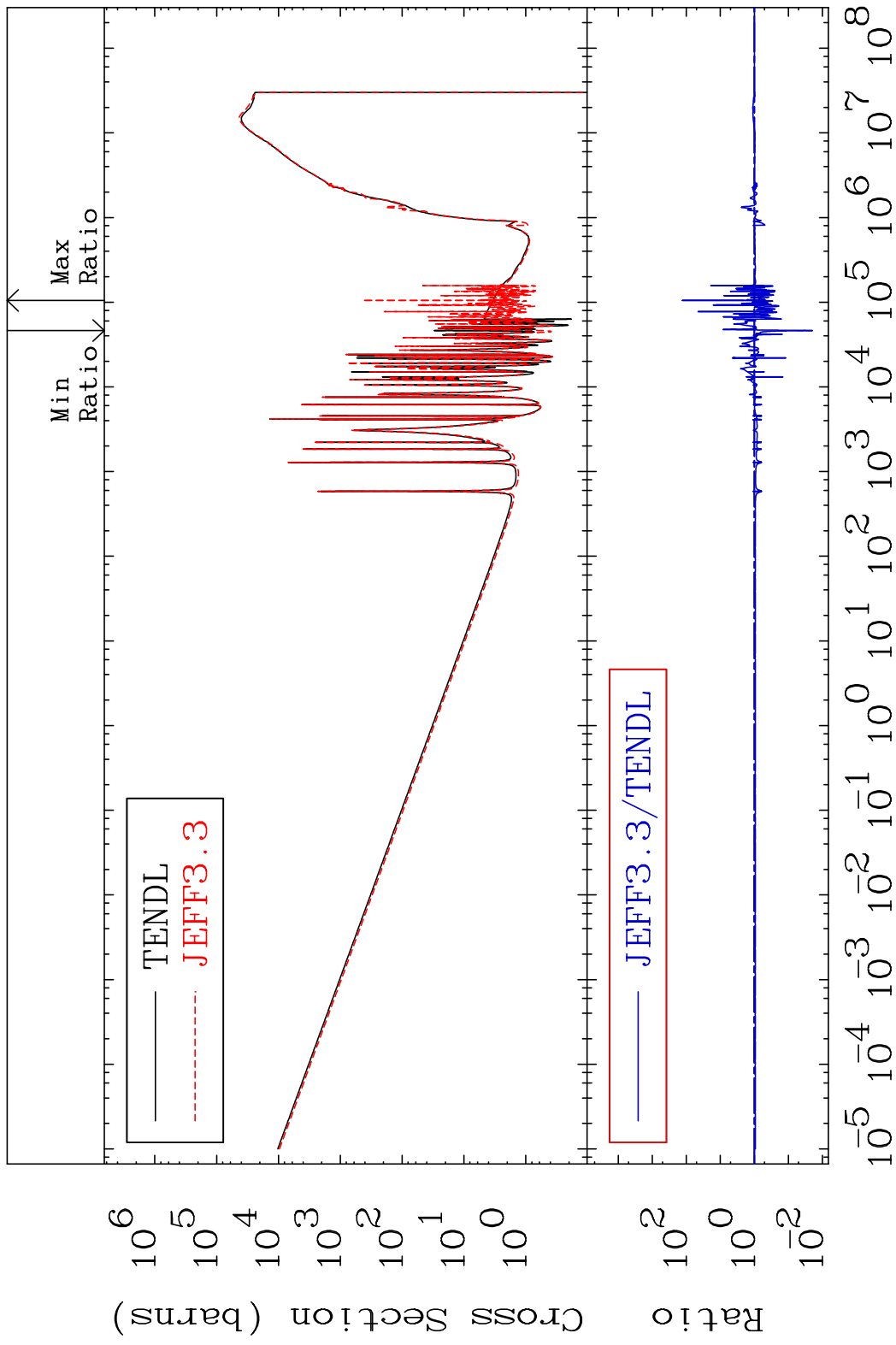
Cross Section -95.11 To 2302. %



MAT 2228 Dpa inelastic (mt51-91) 22-Ti-47
 Cross Section -3.610 To 9999. %

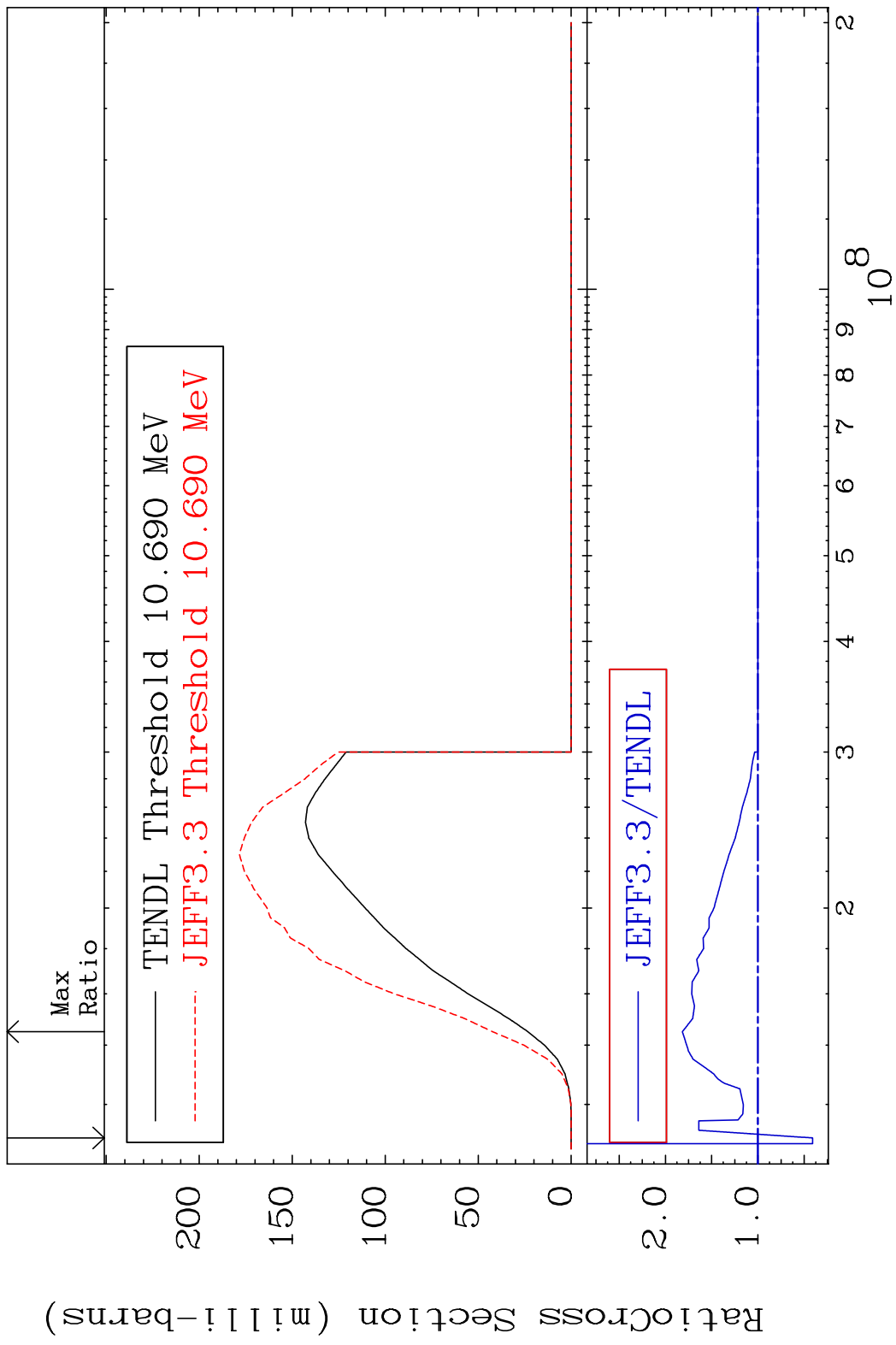


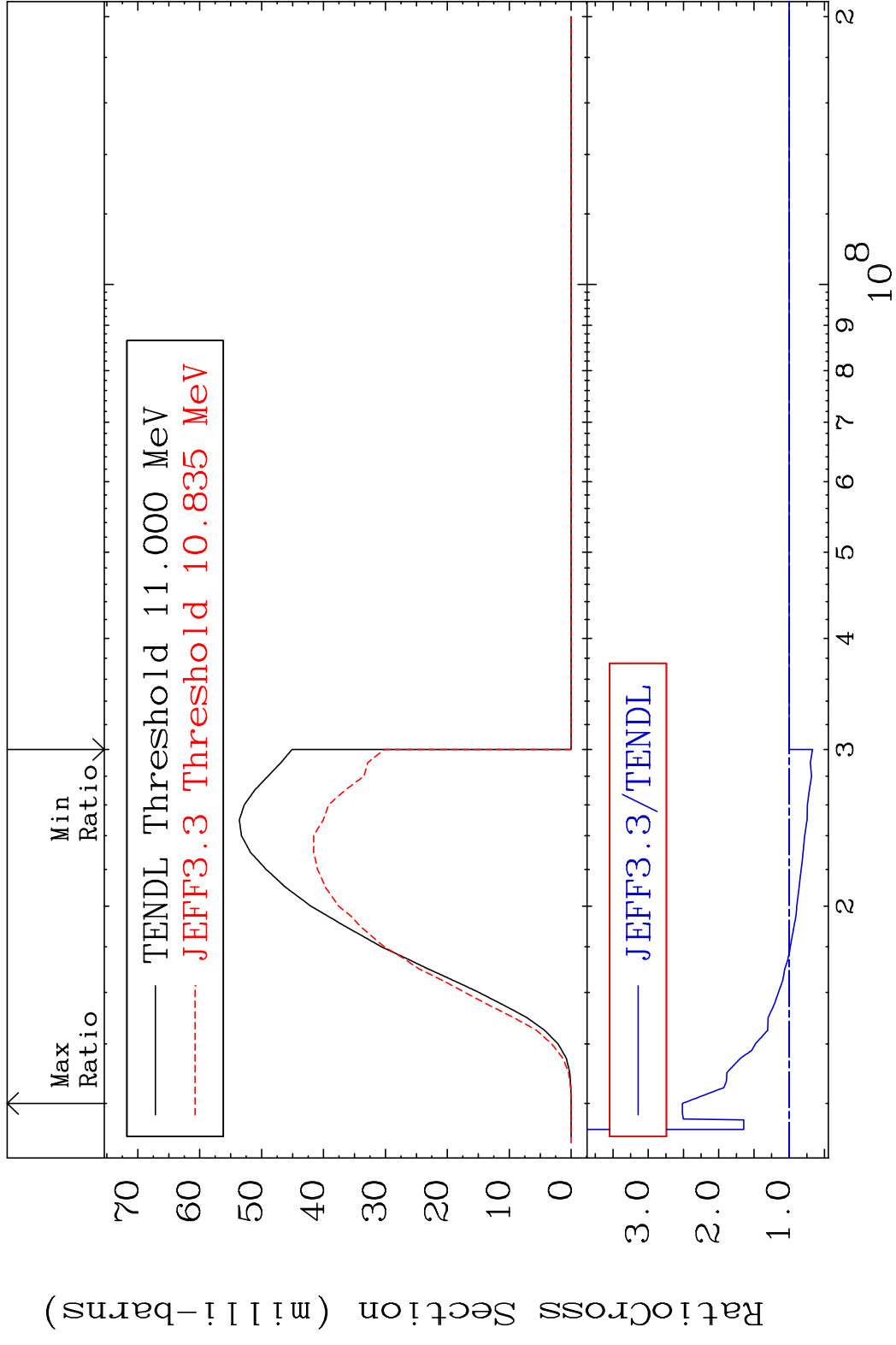
MAT 2228 Dpa disappearance (mt102 -120) 22-Ti-47
Cross Section -98.06 To 9999. %

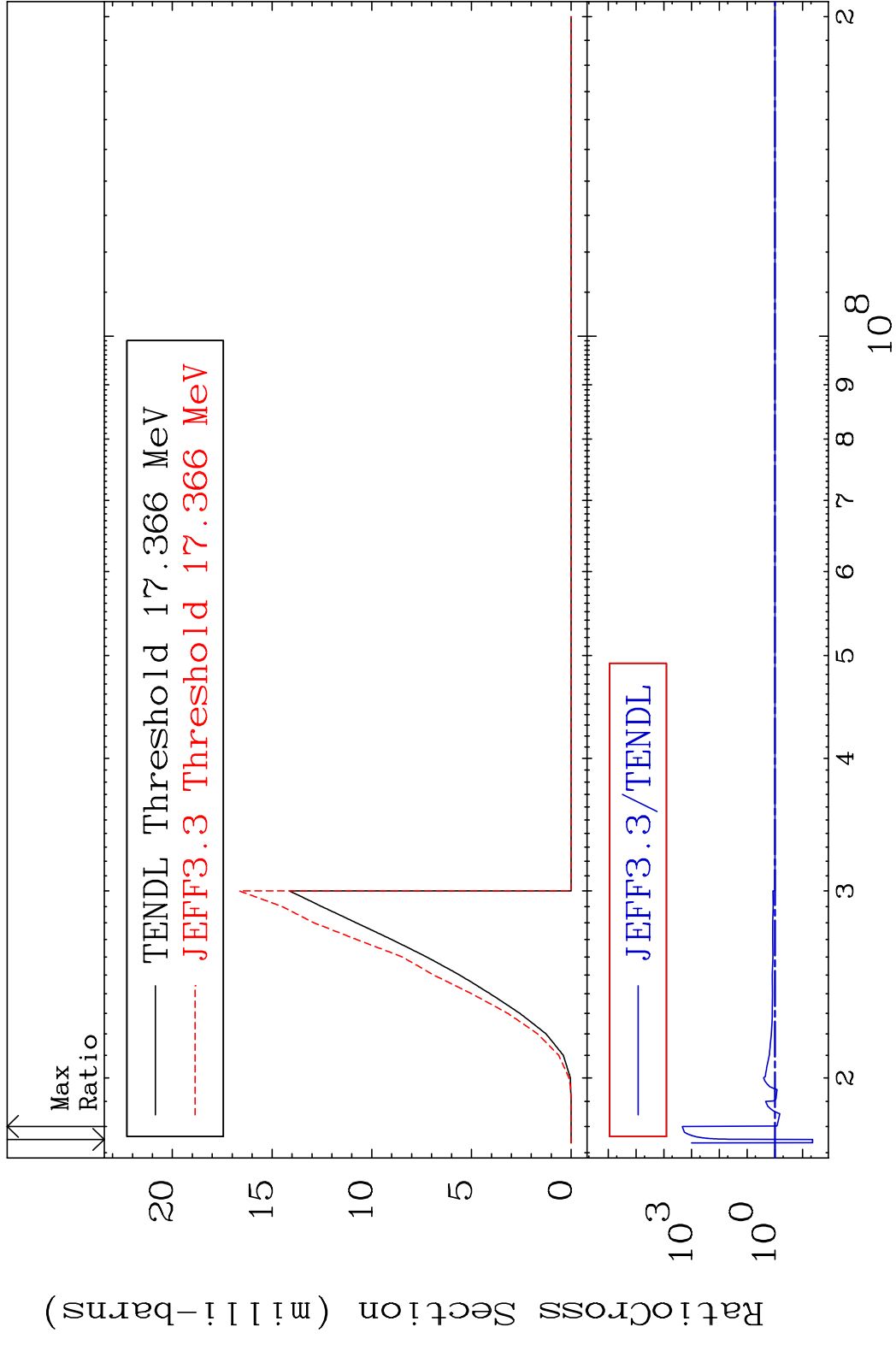


75 Incident Energy (eV) 22-Ti-47

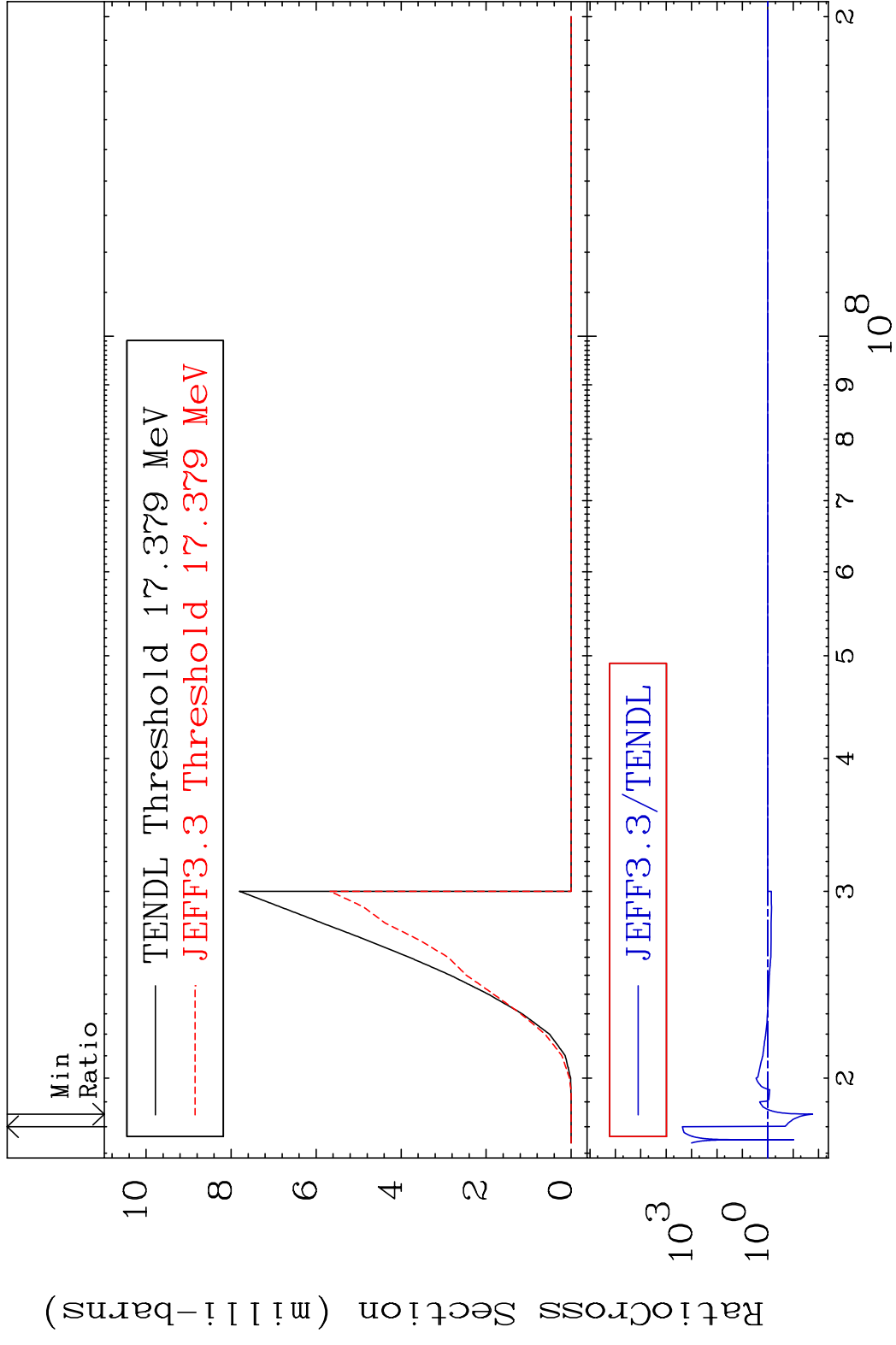
MAT 2228 (n, n') p:21-Sc-46g 22-Ti-47
 Radionuclide Production Cross Section 58e98d10 81.69 %



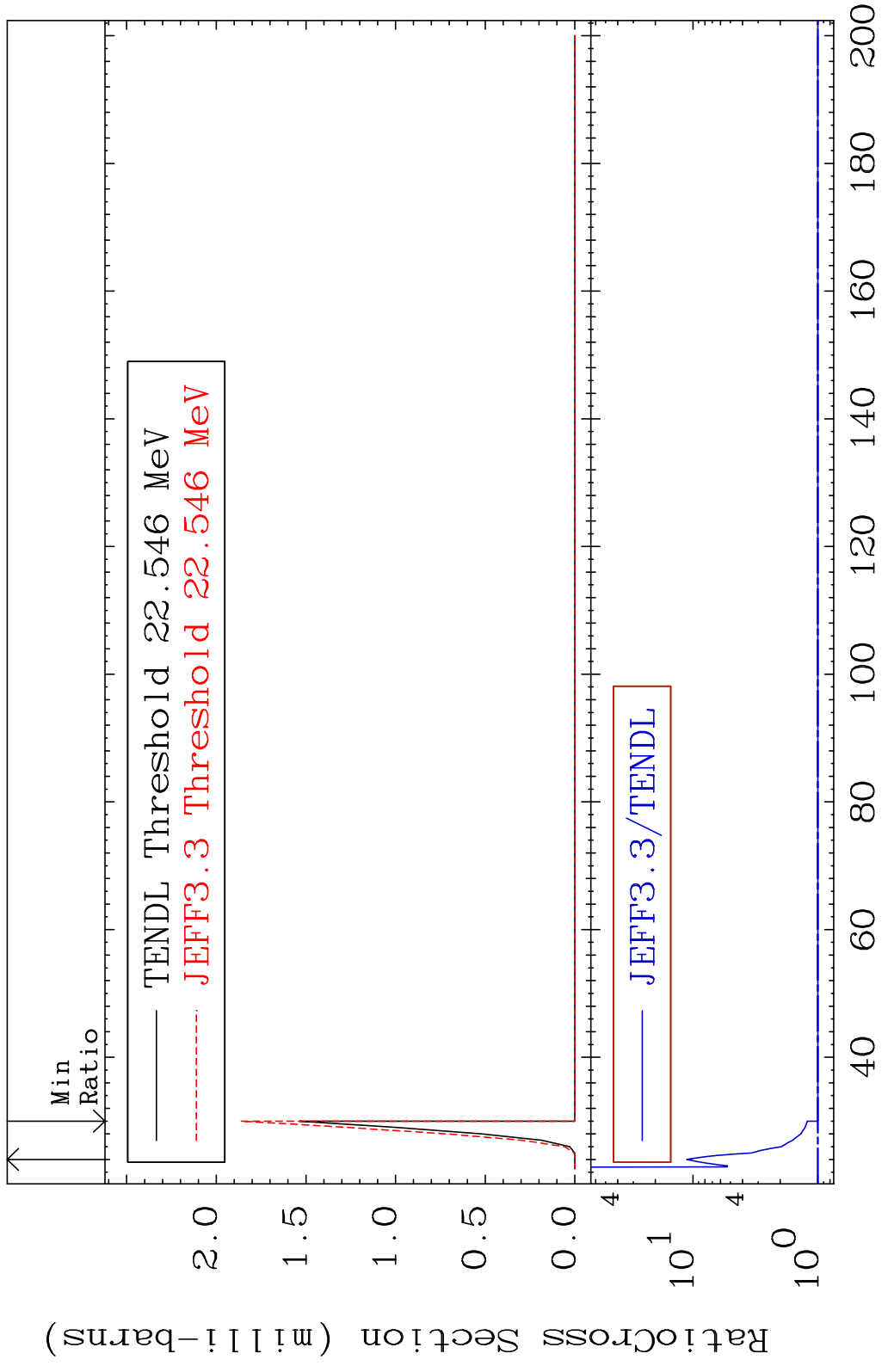


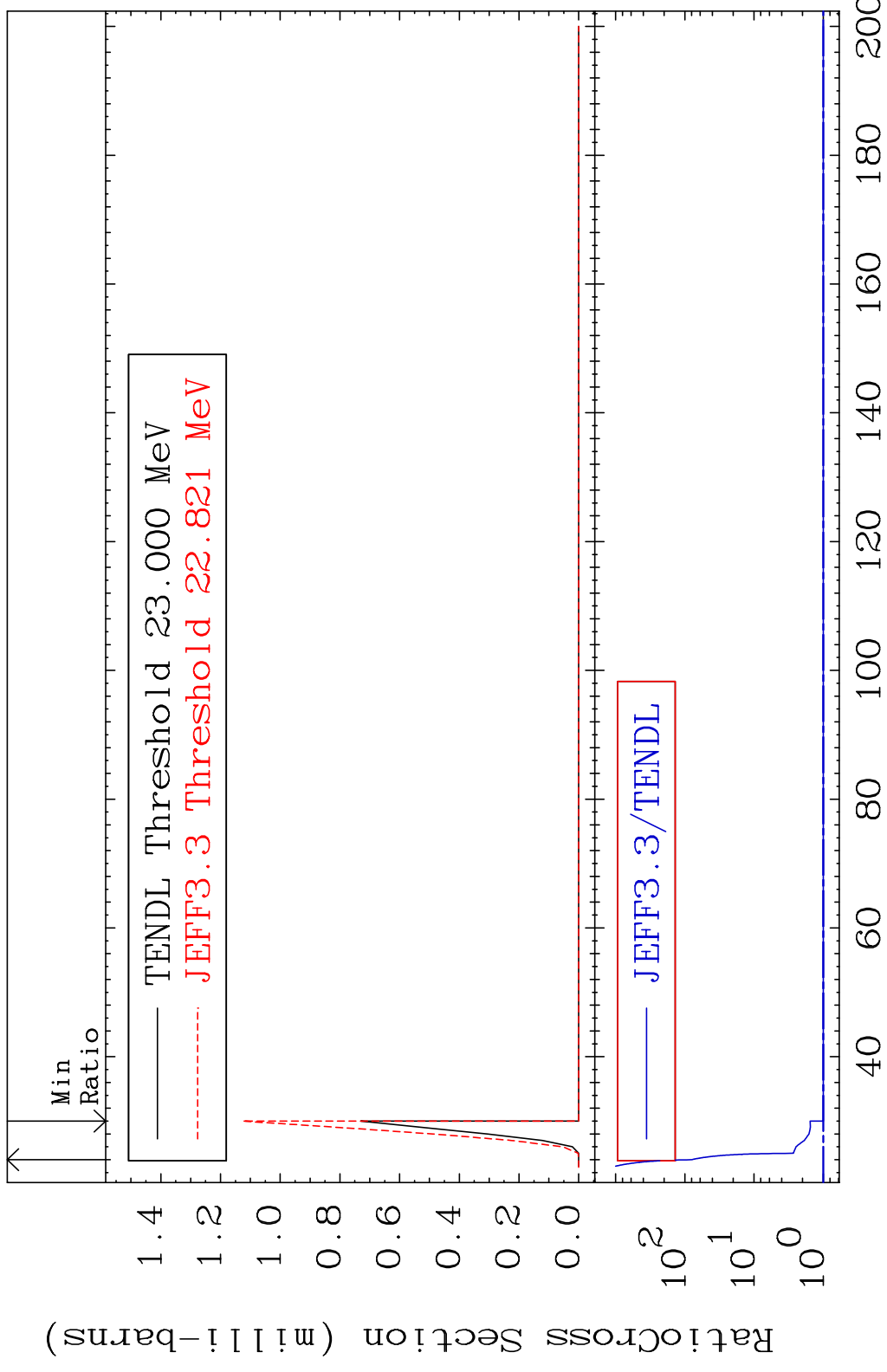


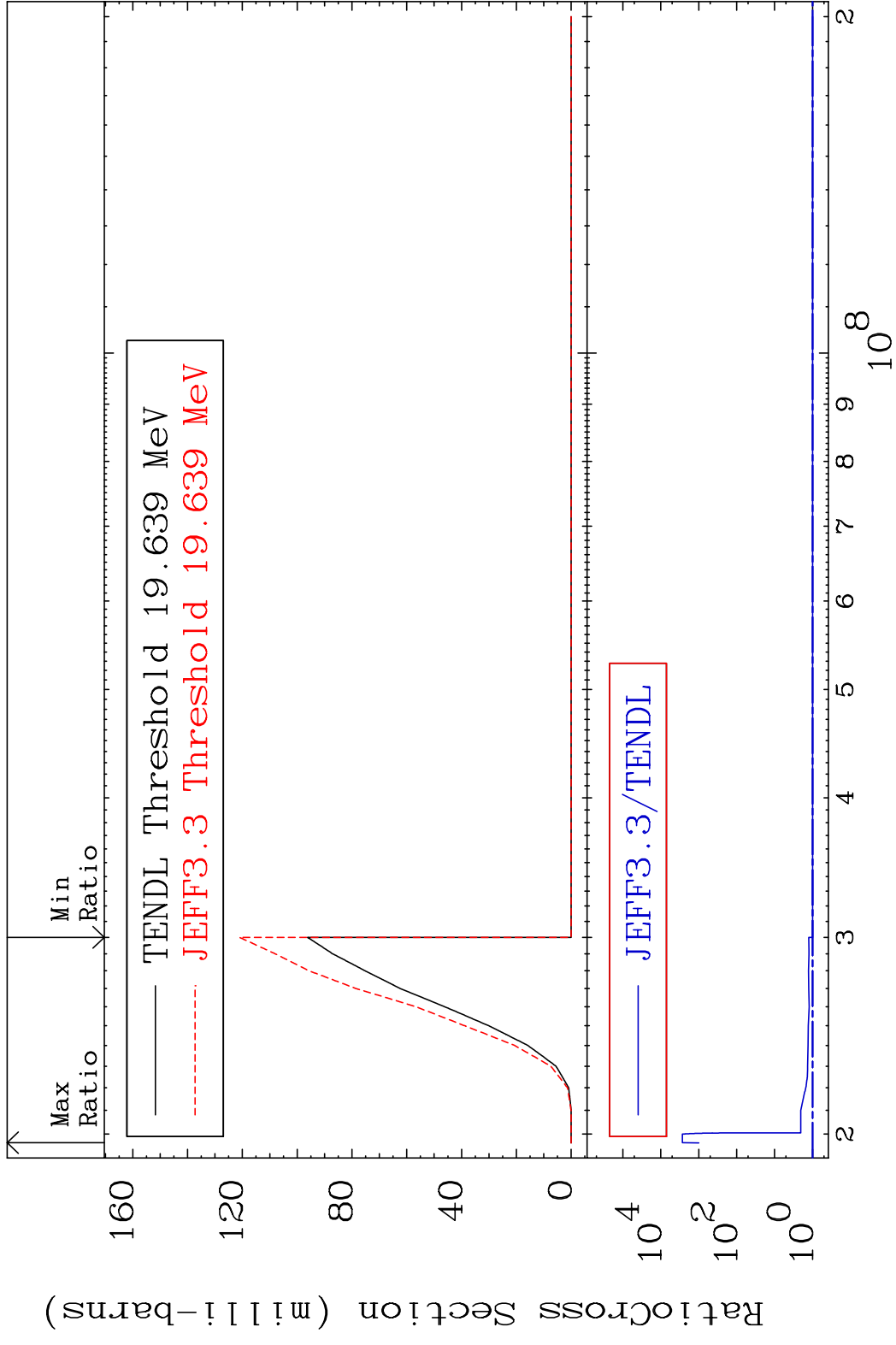
MAT 2228 (n, n') d:21-Sc-45m1 22-Ti-47
 Radionuclide Production Cross Section 98.271 d10 9999. %

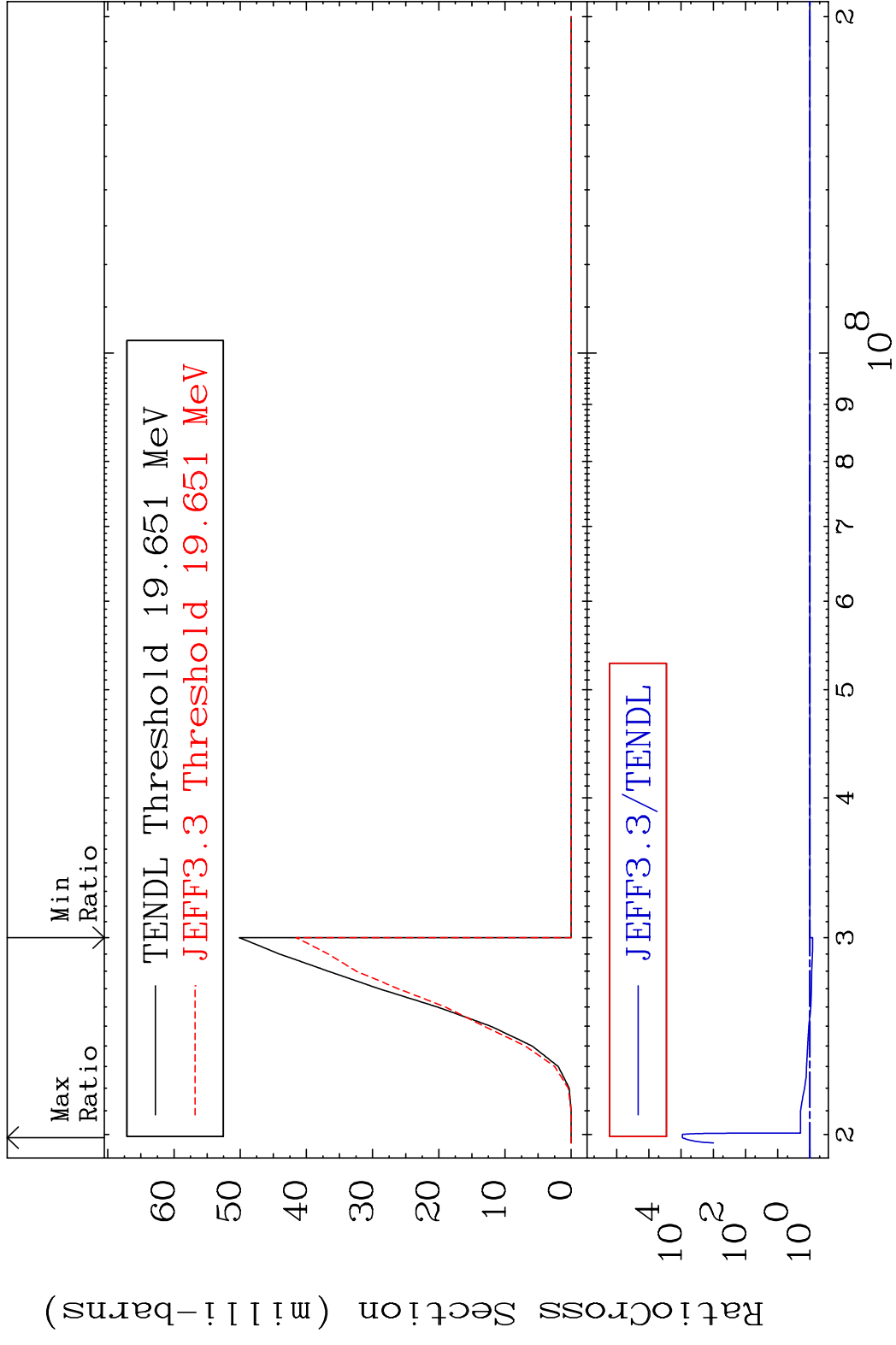


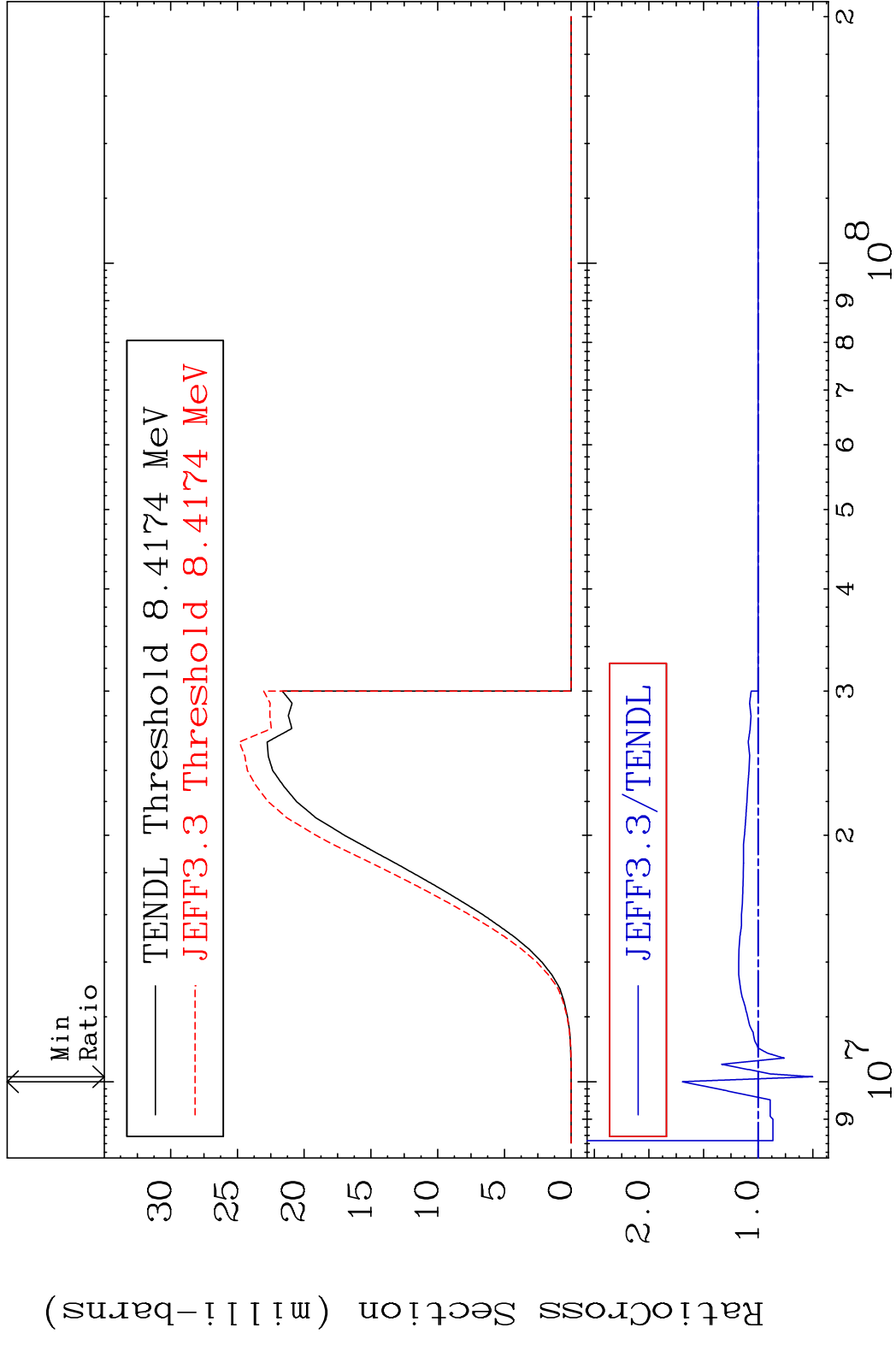
MAT 2228 (n, n') t:21-Sc-44g 22-Ti-47
 Radionuclide Production Cross Section 1020. %



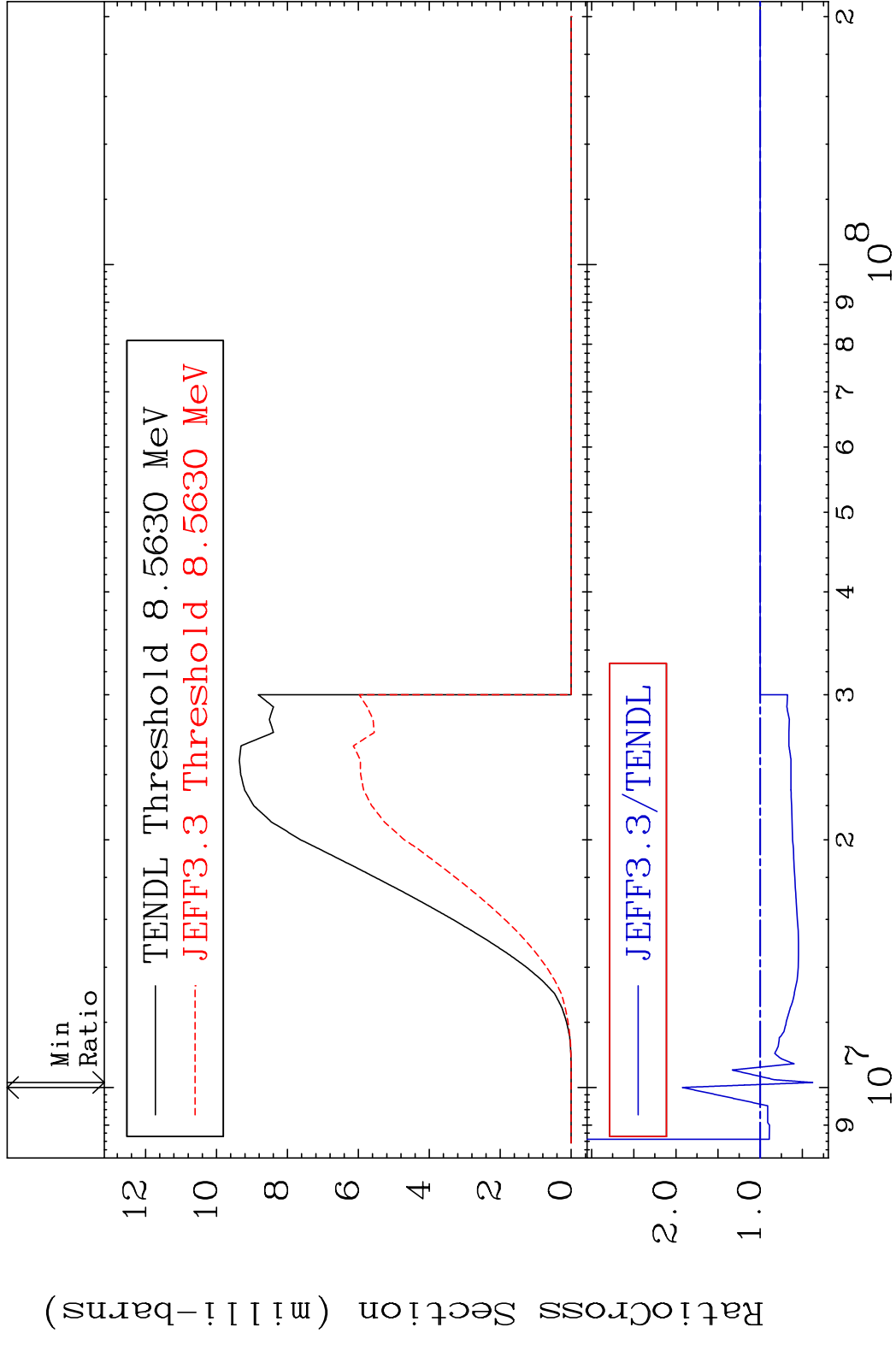


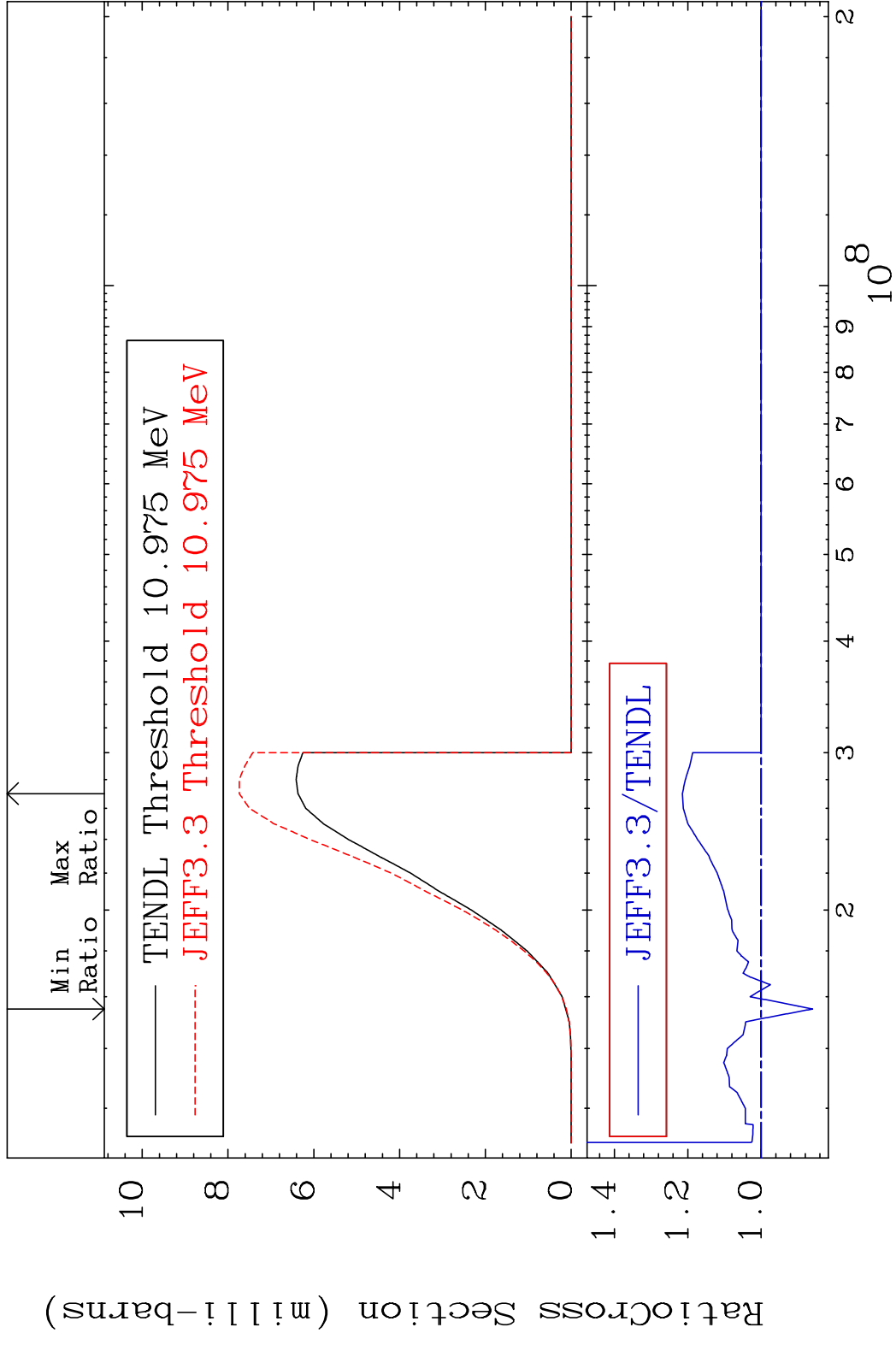




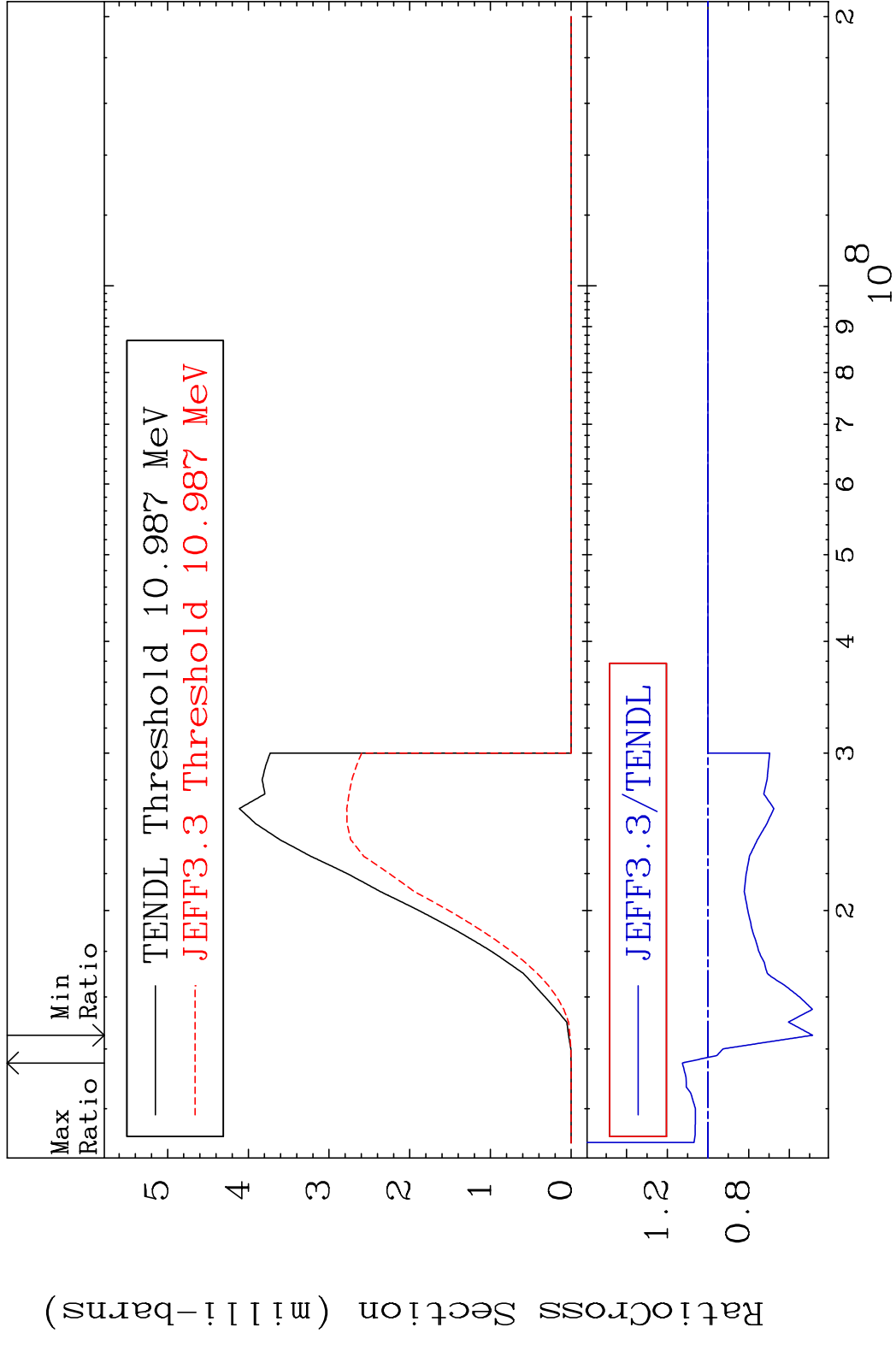


MAT 2228 (n,d):21-Sc-46m2 22-Ti-47
 Radionuclide Production Cross Section 92.34 %





MAT 2228 (n,t):21-Sc-45m1 22-Ti-47
 Radionuclide Production Cross Section 12.60 %



87 Incident Energy (eV) 22-Ti-47