

Program Complot
(Version 2021-1)

by

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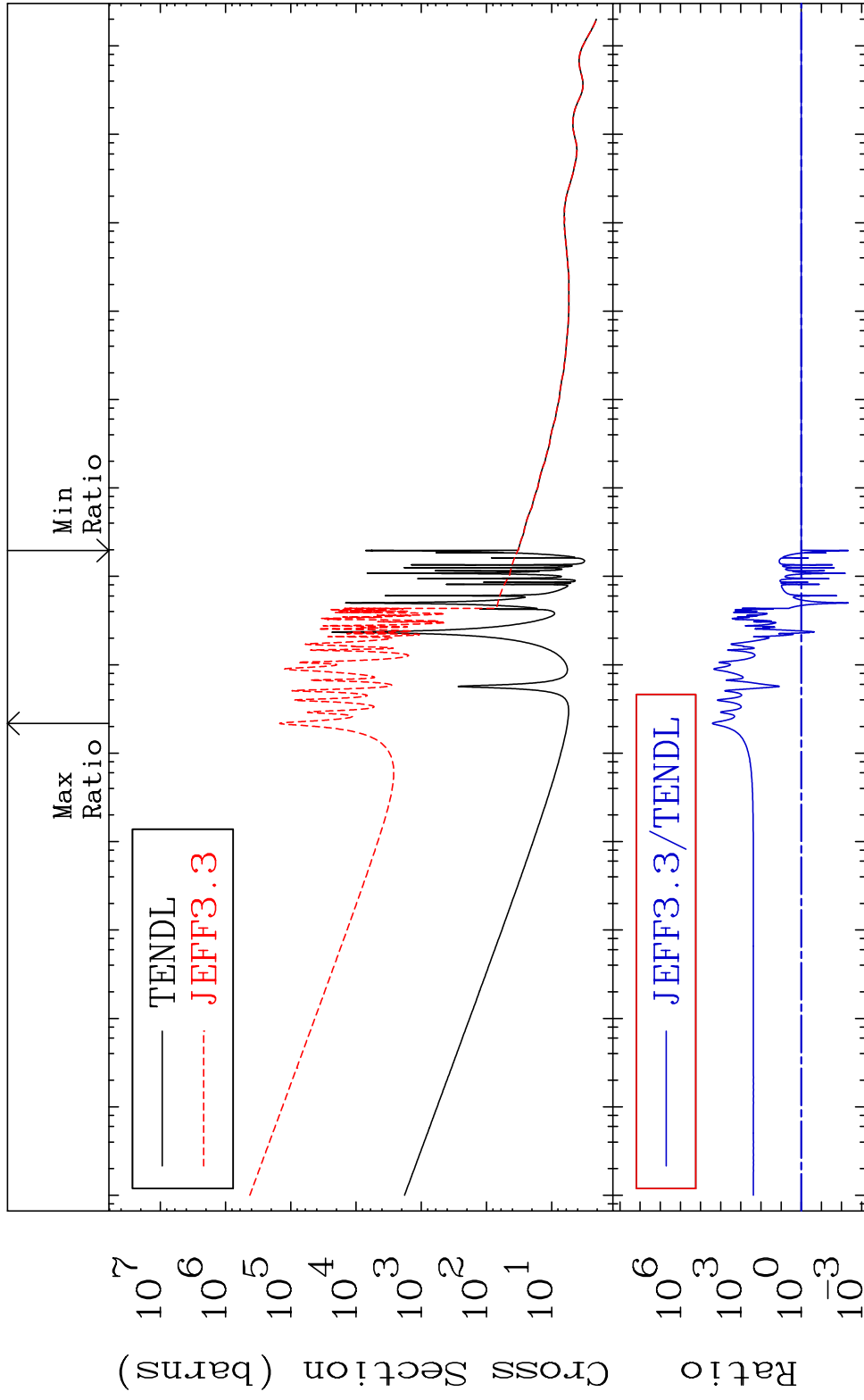
Press Mouse Button to Start

MAT 5247

Total

52-Te-127m

Cross Section -99.54 To 9999. %



1

Incident Energy (eV)

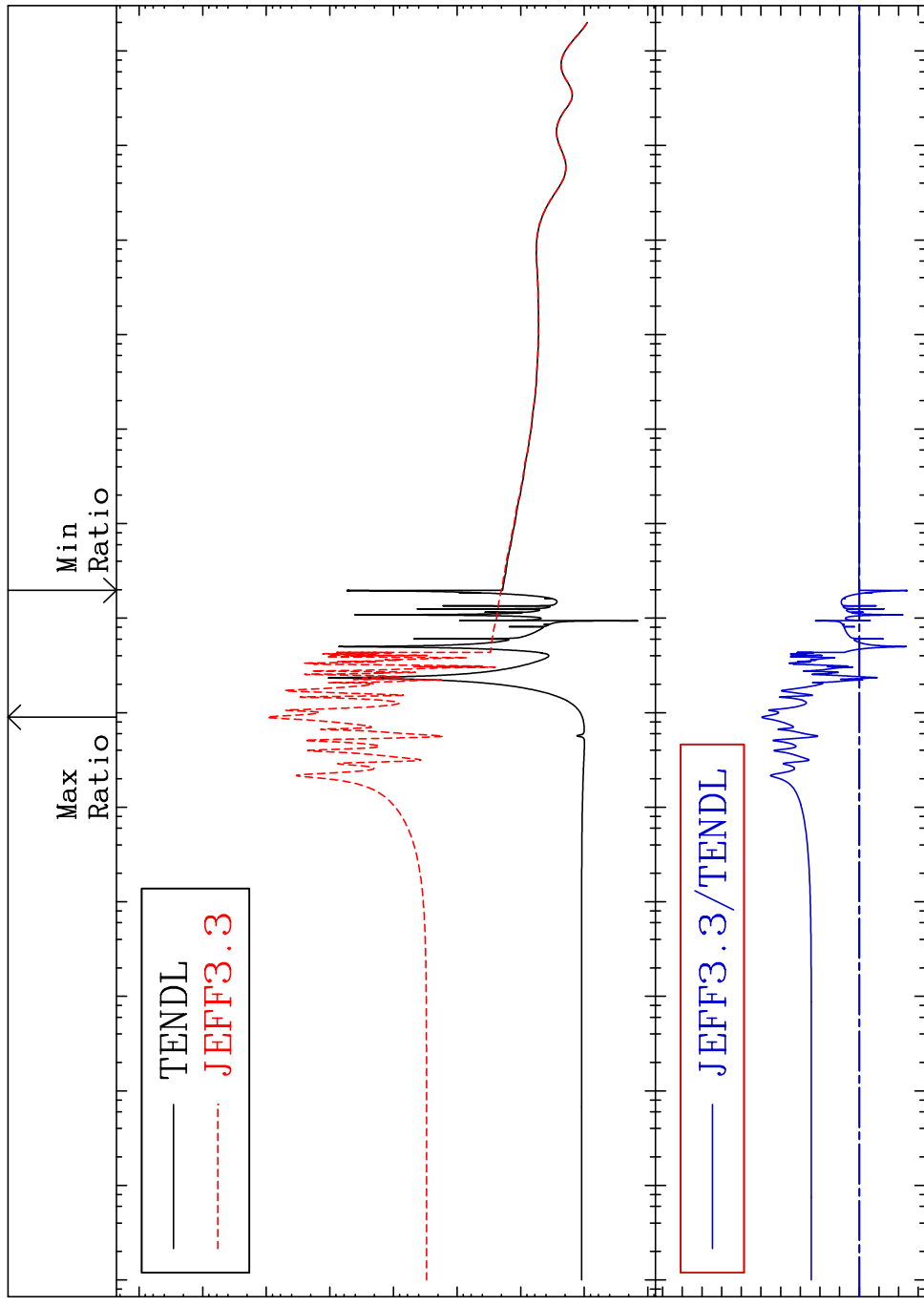
52-Te-127m

MAT 5247

Elastic

52-Te-127m

Cross Section -99.63 To 9999. %



Cross Section (barns)

10^6
 10^5
 10^4
 10^3
 10^2
 10^1
 10^0
 10^{-1}

Ratio

10^4
 10^0

Incident Energy (eV)

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

2

Incident Energy (eV)

52-Te-127m

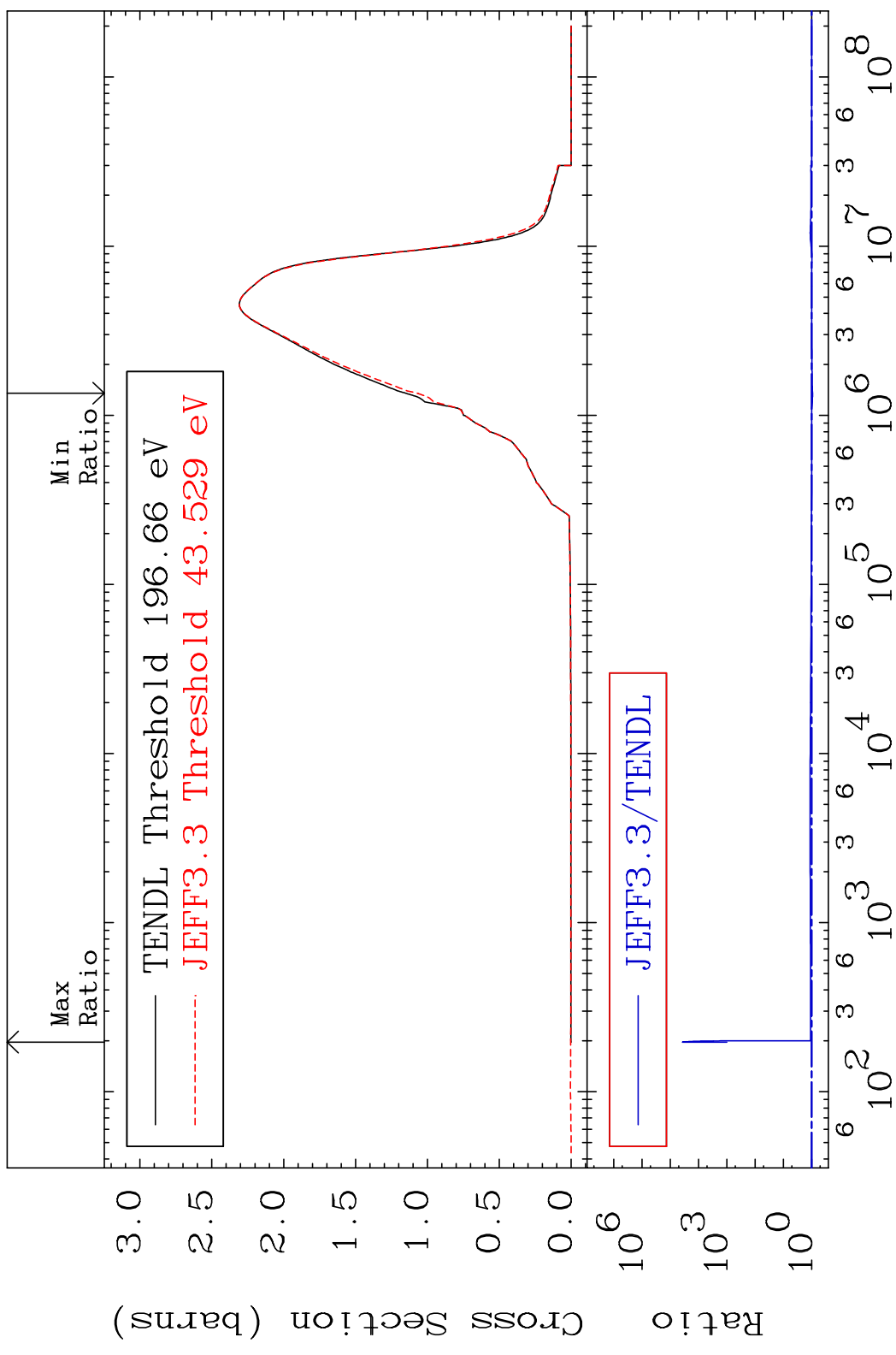
MAT 5247

Inelastic

52-Te-127m

Cross Section

-6.935 To 9999. %

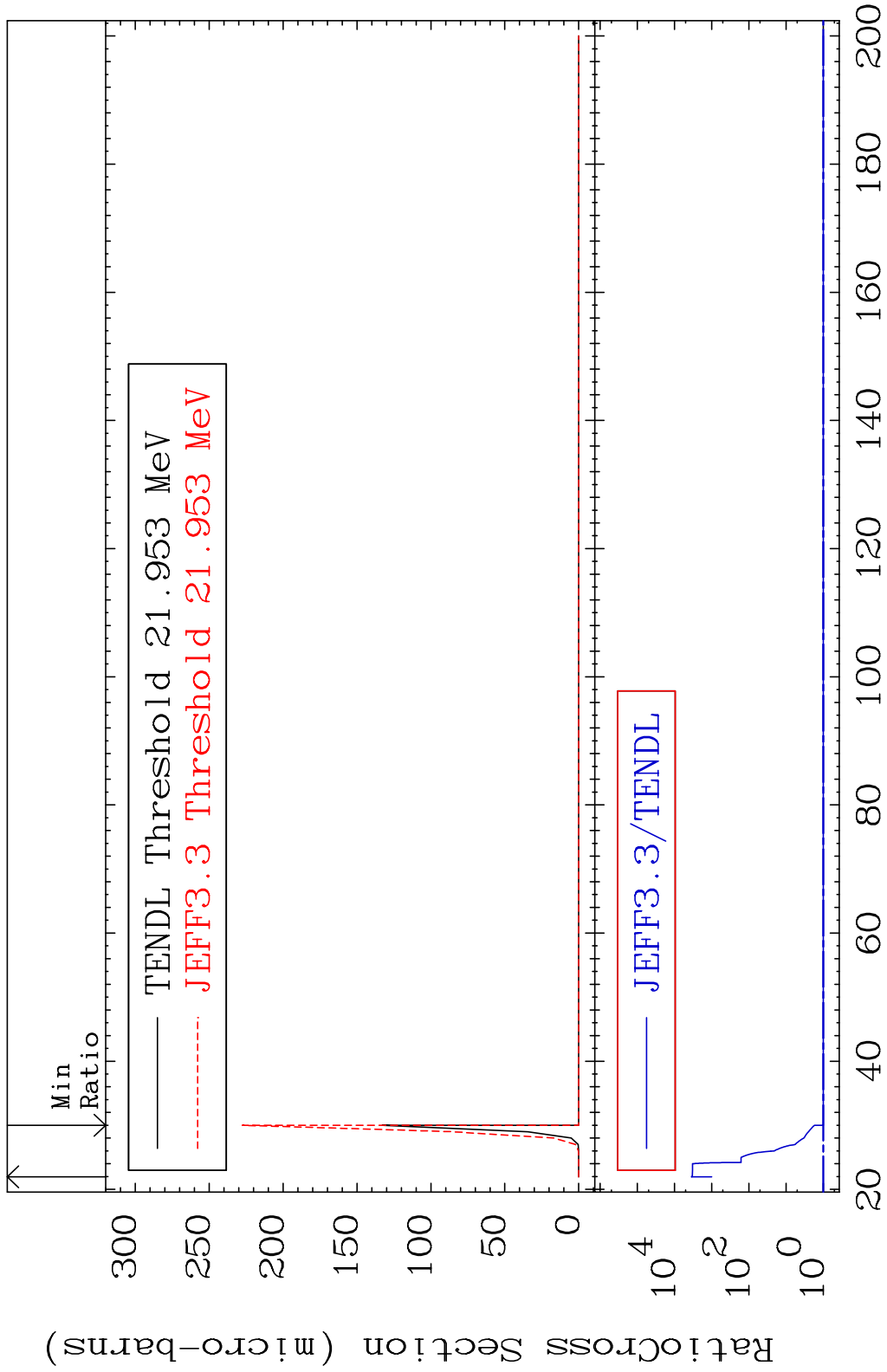


3

Incident Energy (eV)

52-Te-127m

MAT 5247 (n,2n) d 52-Te-127m
 Cross Section 0.000 To 9999. %



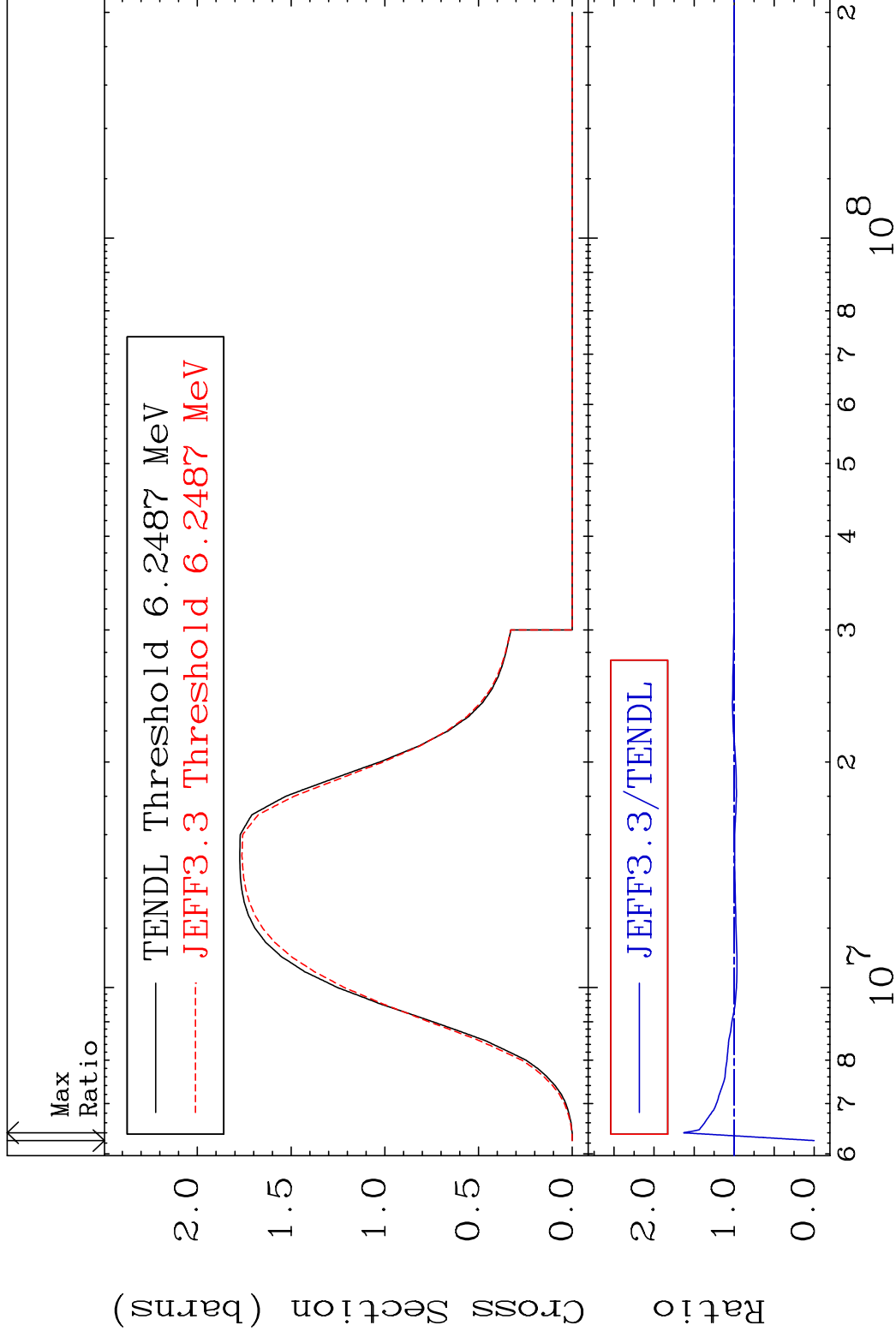
4 Incident Energy (MeV) 52-Te-127m

MAT 5247

(n,2n)

52-Te-127m

Cross Section -100.0 To 63.04 %



5

Incident Energy (eV)

52-Te-127m

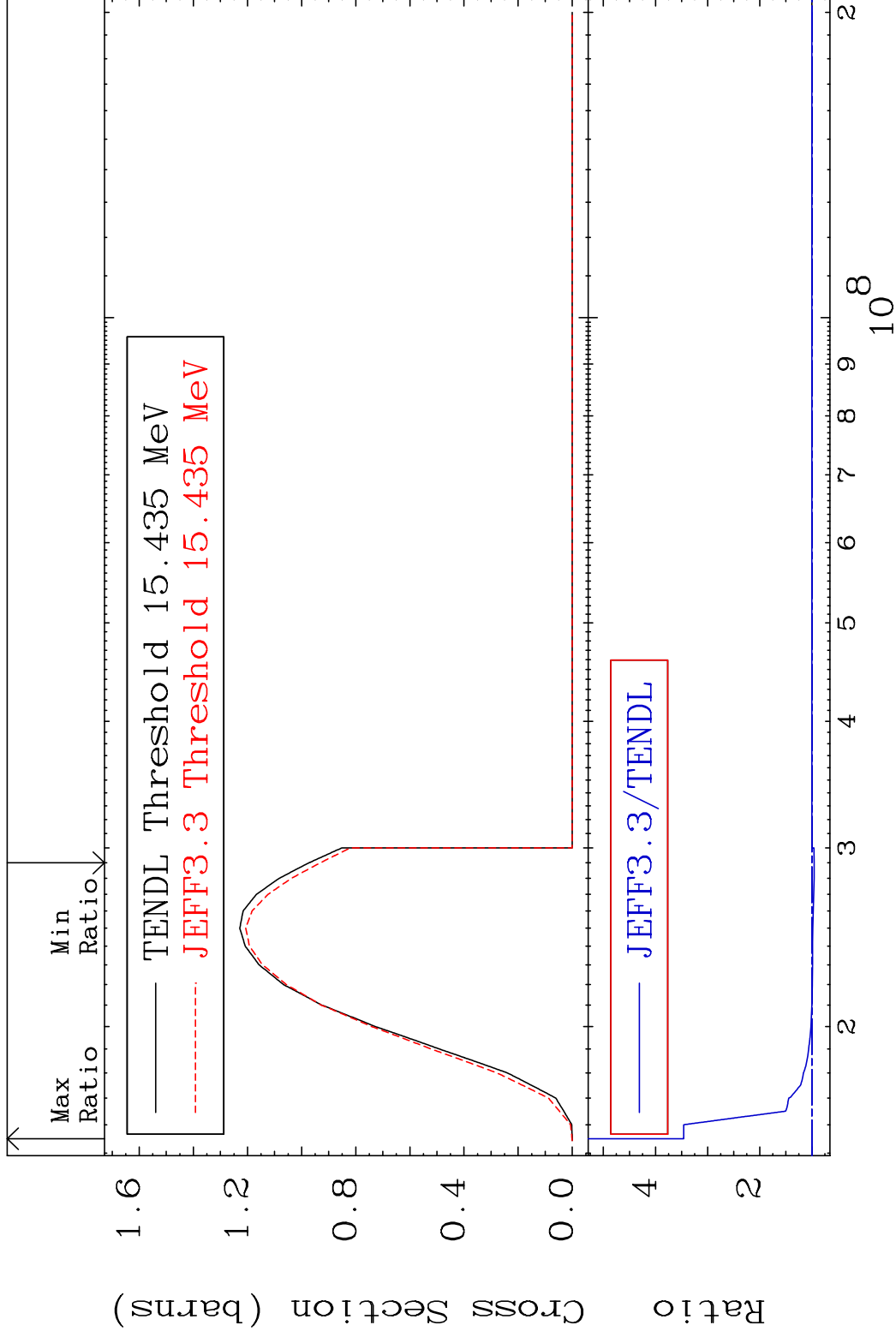
MAT 5247

(n,3n)

52-Te-127m

Cross Section

-4.263 To 246.0 %



6

Incident Energy (eV)

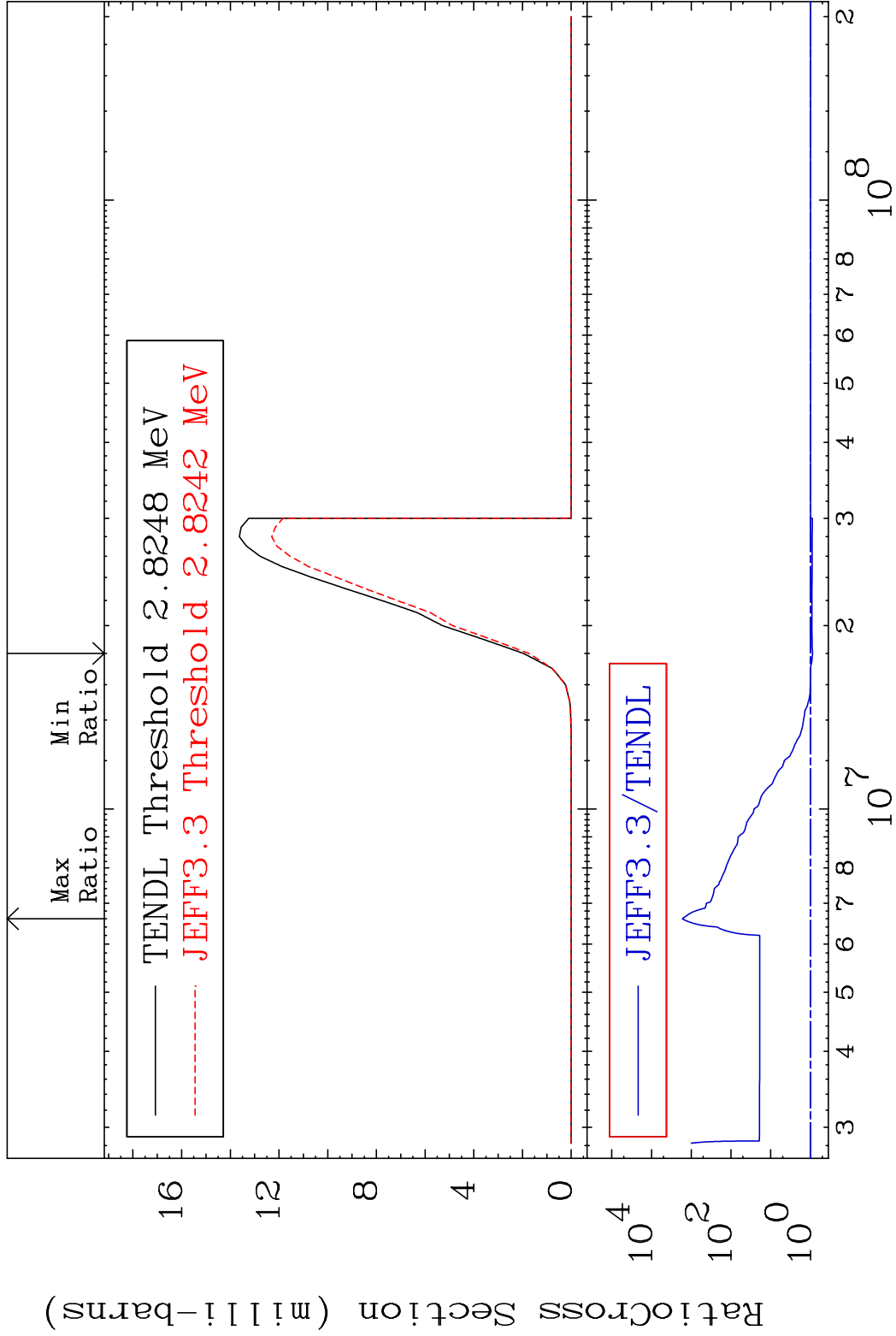
52-Te-127m

MAT 5247

(n, n') α

52-Te-127m

Cross Section -11.50 To 9999. %



7

Incident Energy (eV)

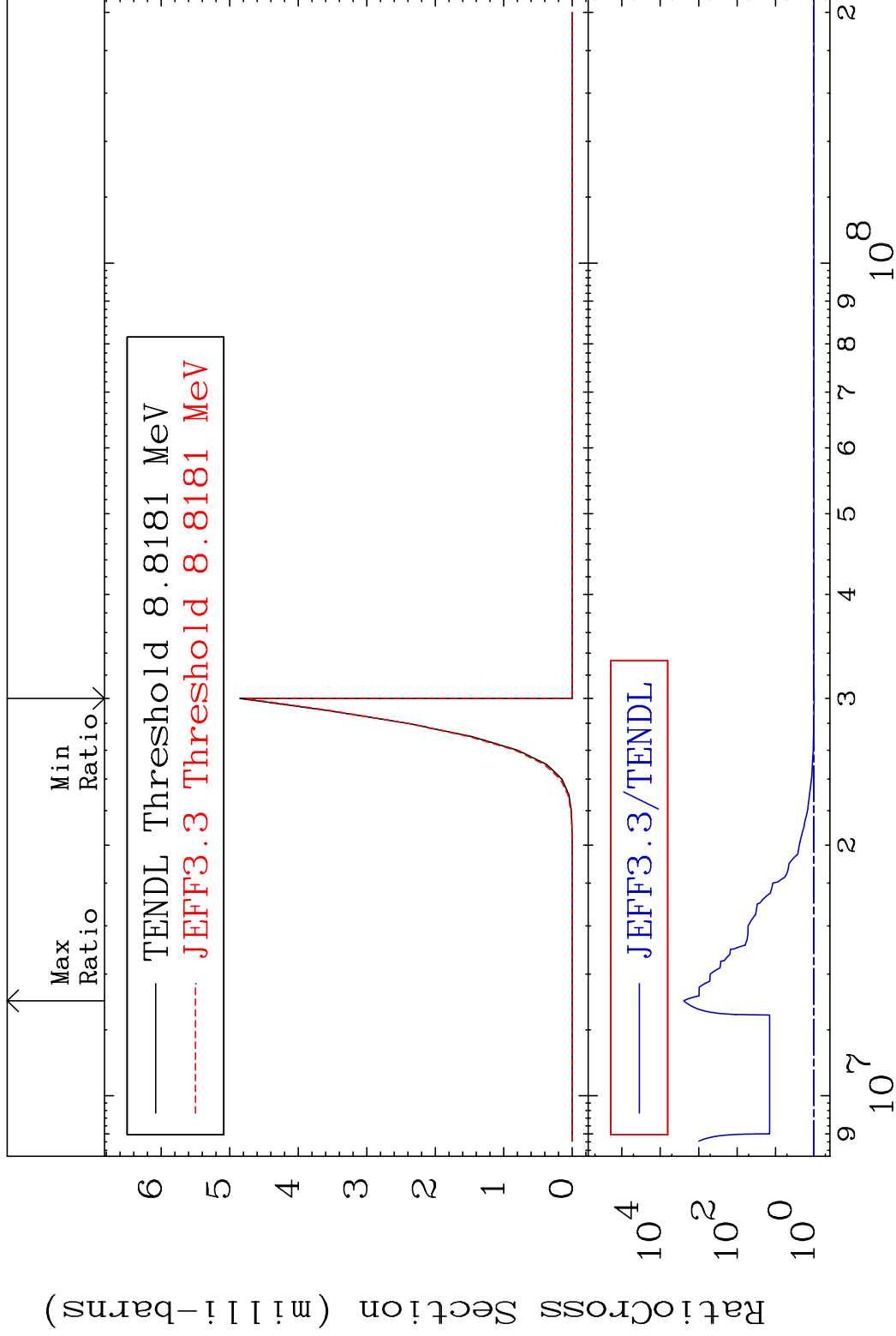
52-Te-127m

MAT 5247

(n,2n) α

52-Te-127m

Cross Section -1.495 To 9999. %

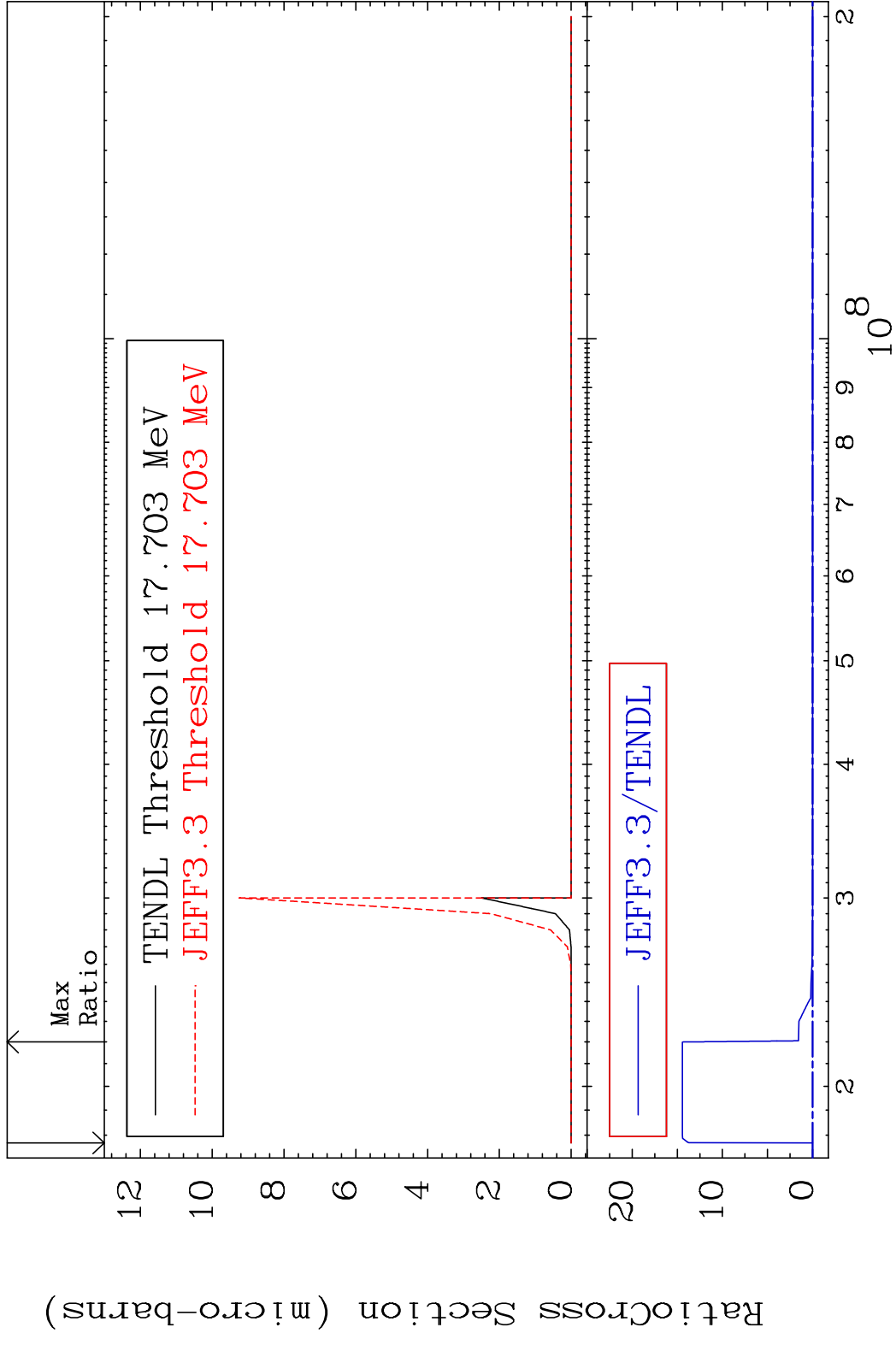


8

Incident Energy (eV)

52-Te-127m

MAT 5247 (n,3n) α 52-Te-127m
 Cross Section -100.0 To 9999. %

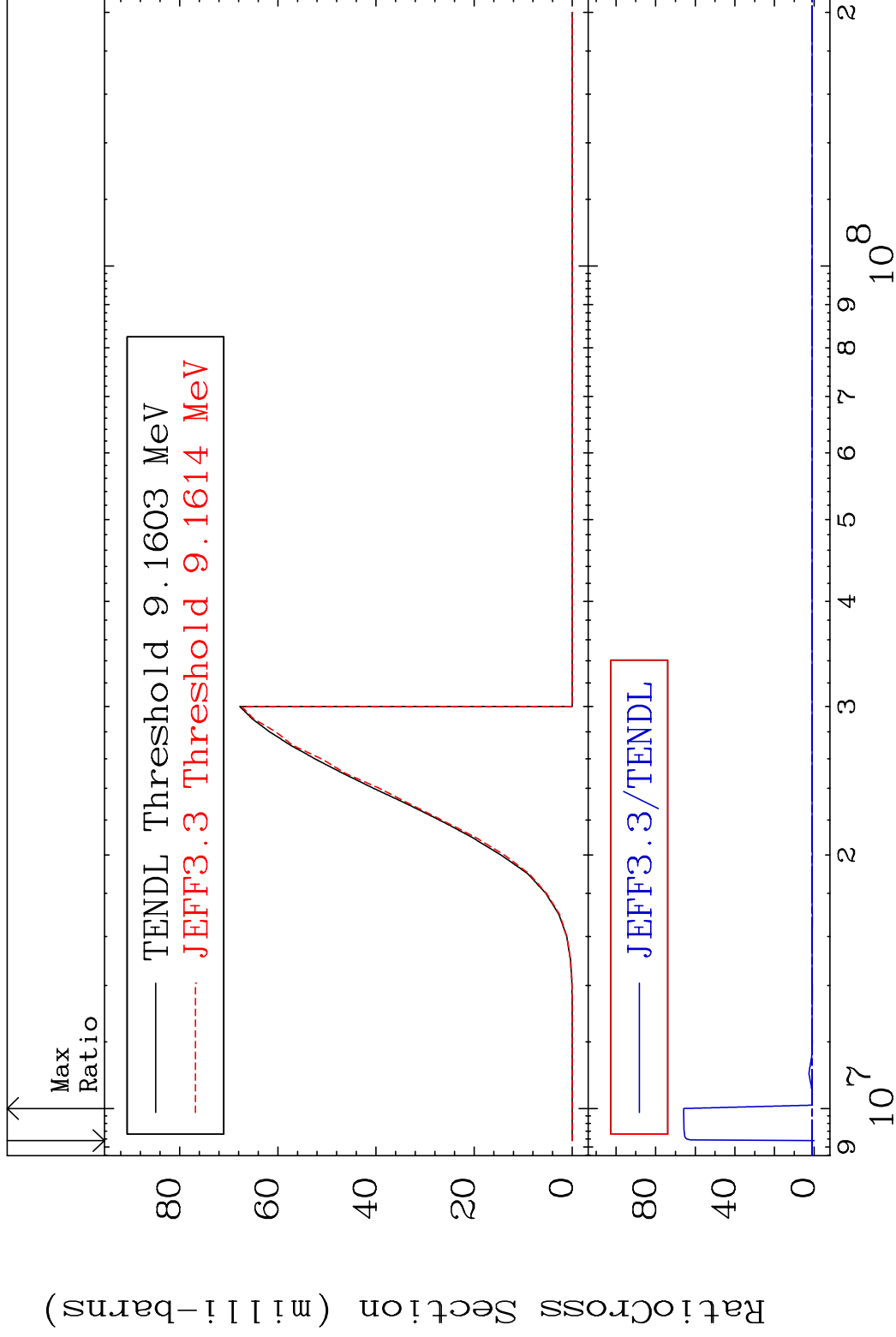


MAT 5247

(n, n') p

52-Te-127m

Cross Section -100.0 To 6485. %



10

Incident Energy (eV)

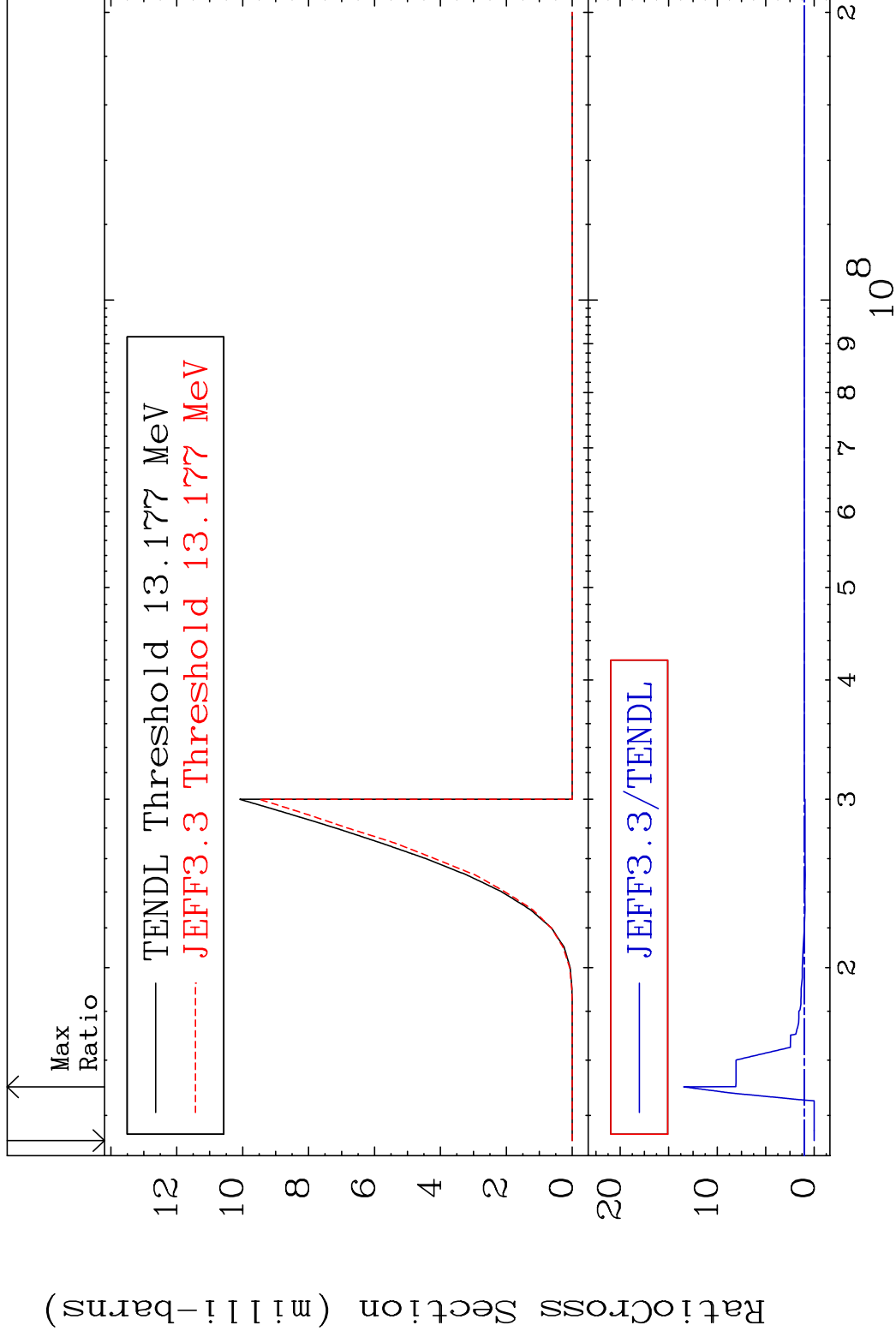
52-Te-127m

MAT 5247

(n, n') d

52-Te-127m

Cross Section -100.0 To 1246. %



11

Incident Energy (eV)

52-Te-127m

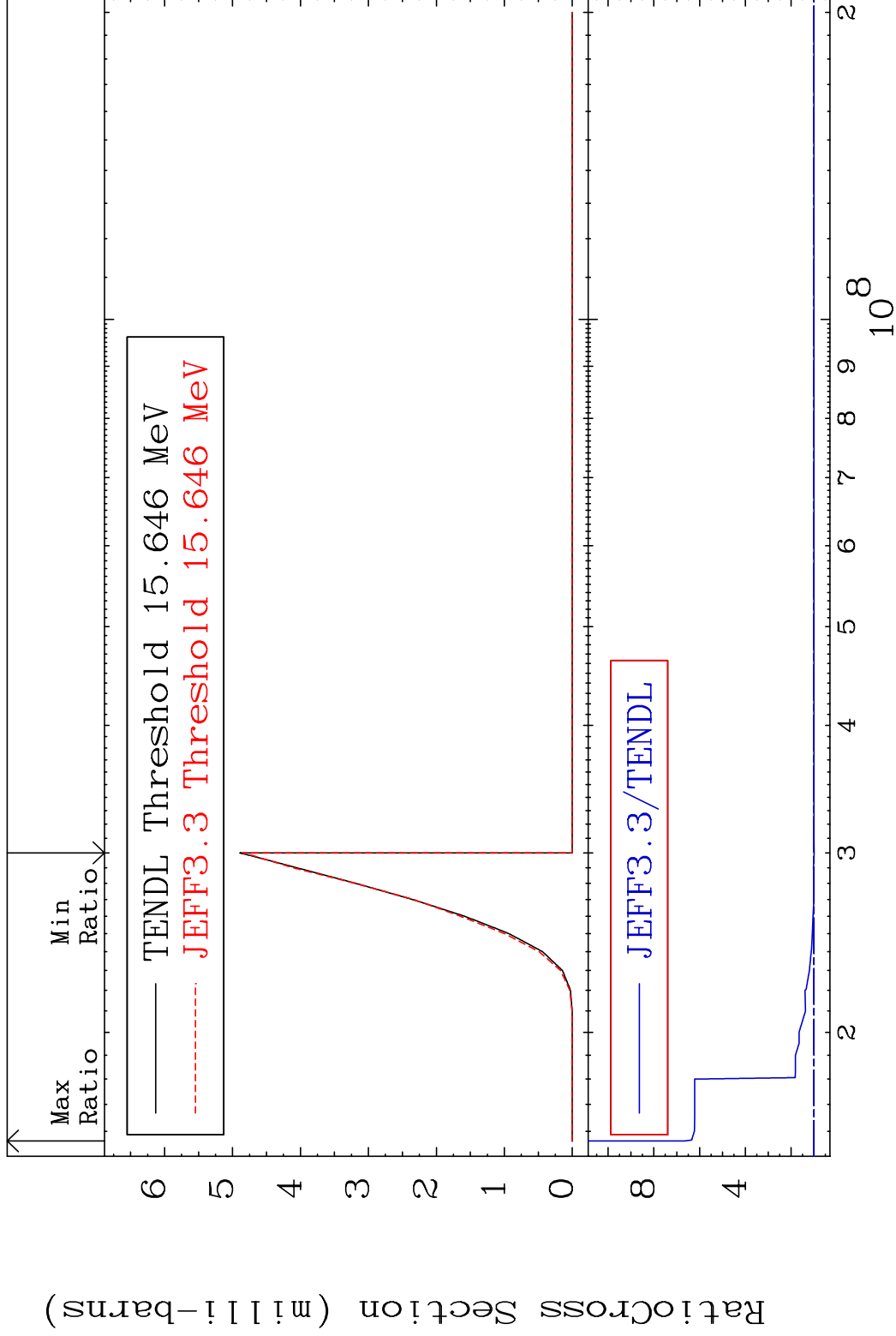
MAT 5247

(n, n') t

52-Te-127m

Cross Section

-1.047 To 569.7 %



12

Incident Energy (eV)

52-Te-127m

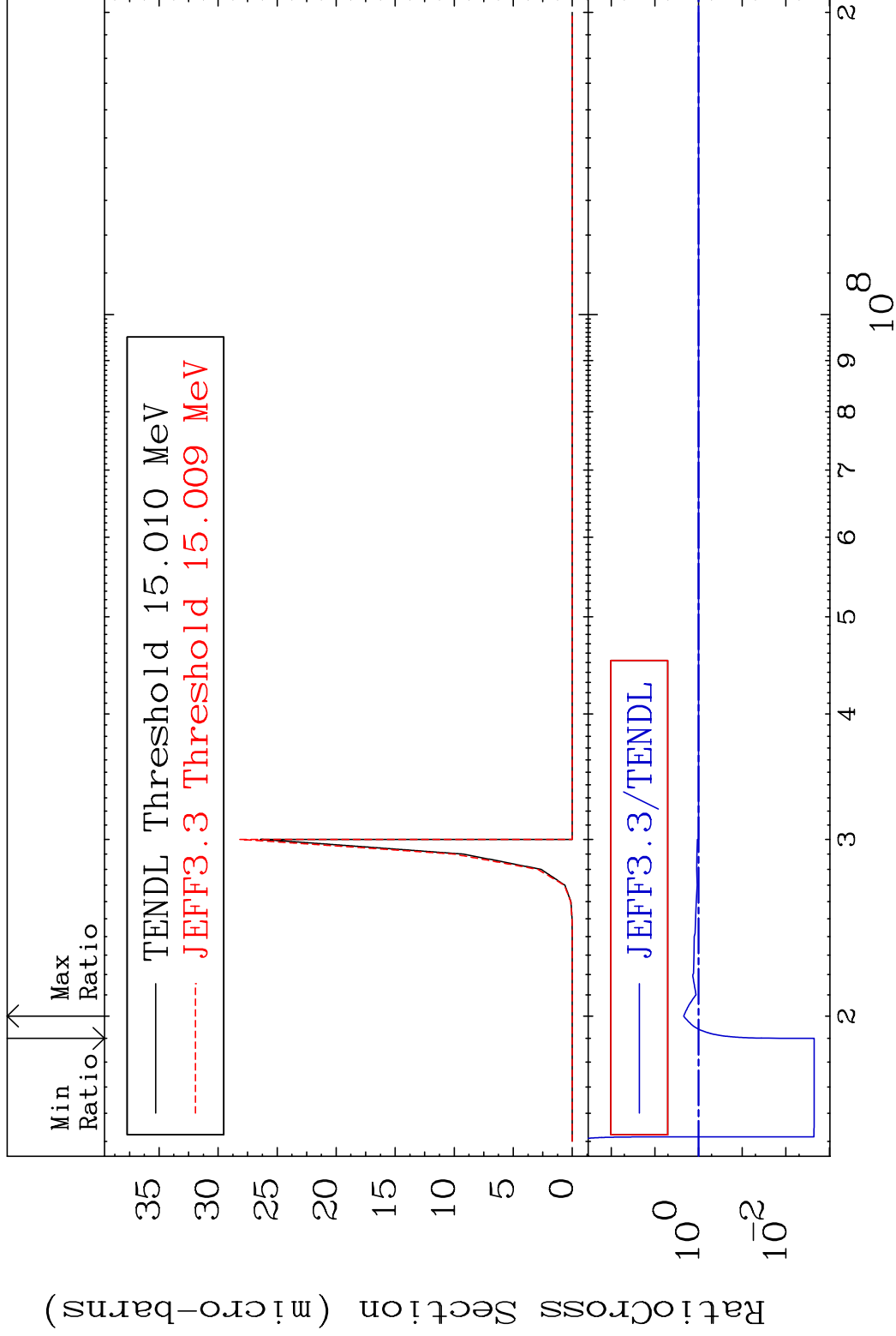
MAT 5247

(n,n') He-3

52-Te-127m

Cross Section

-99.777 To 119.1 %

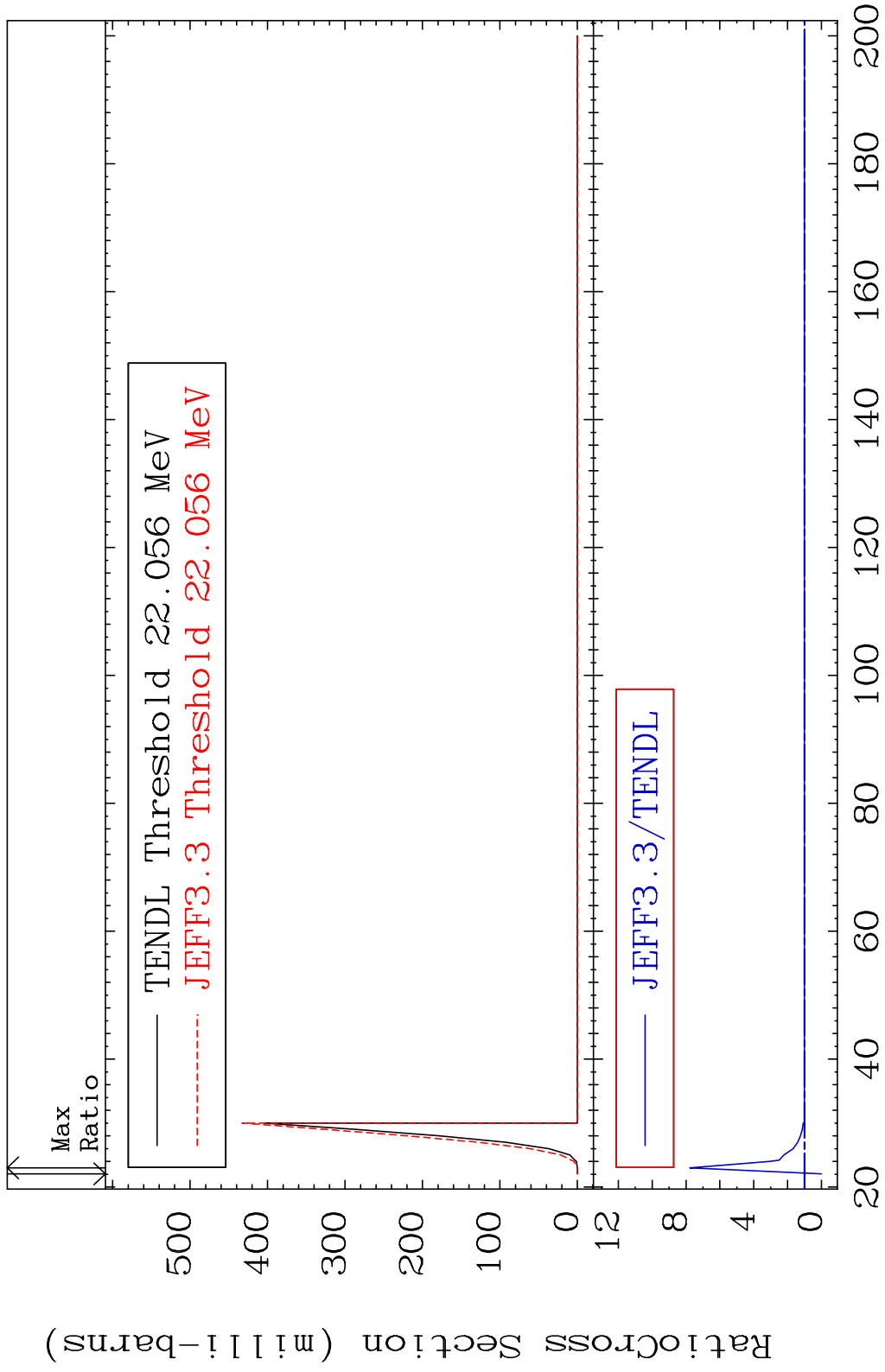


MAT 5247

(n, 4n)

52-Te-127m

Cross Section -100.0 To 677.8 %



14

Incident Energy (MeV)

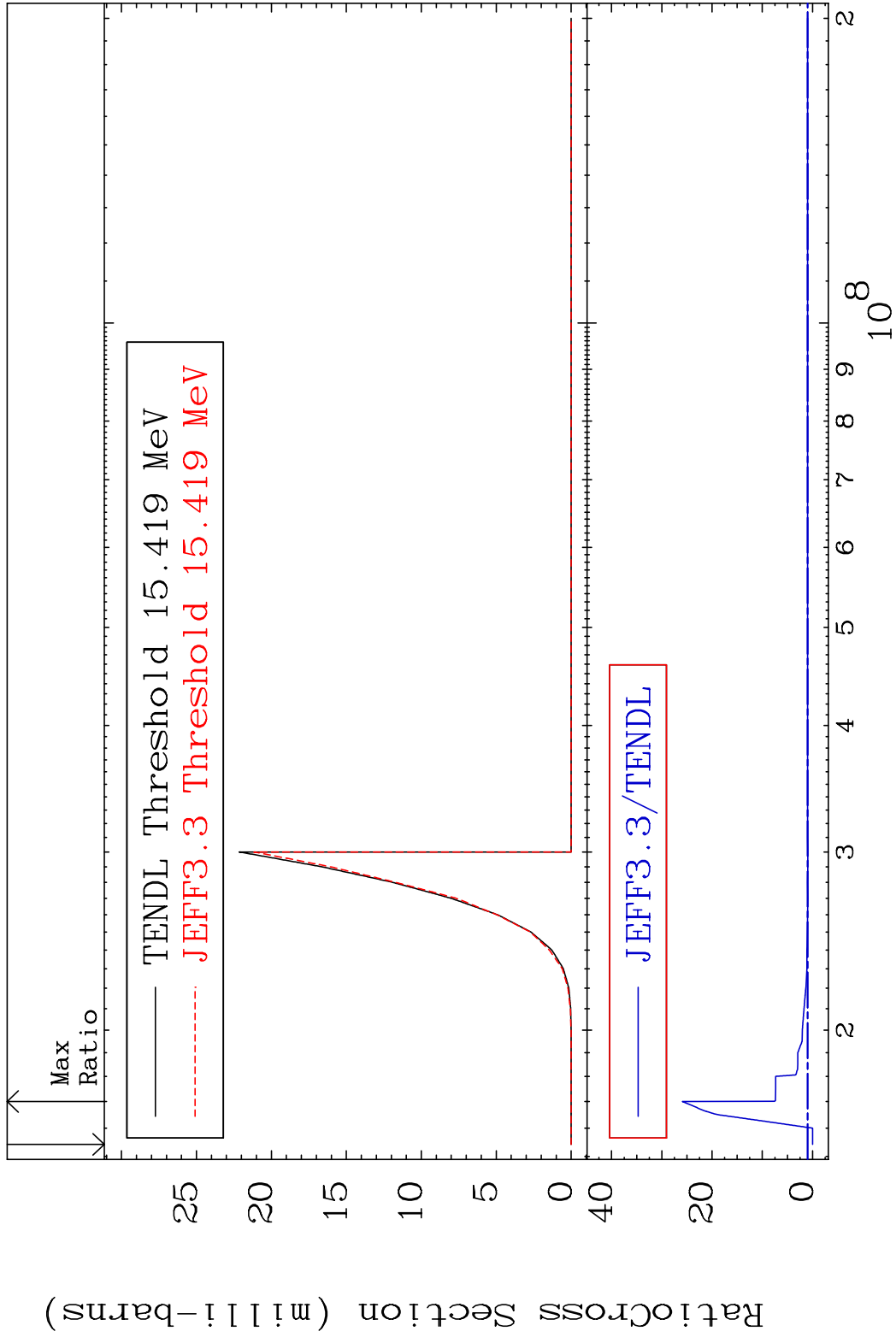
52-Te-127m

MAT 5247

(n,2n) p

52-Te-127m

Cross Section -100.0 To 2491. %



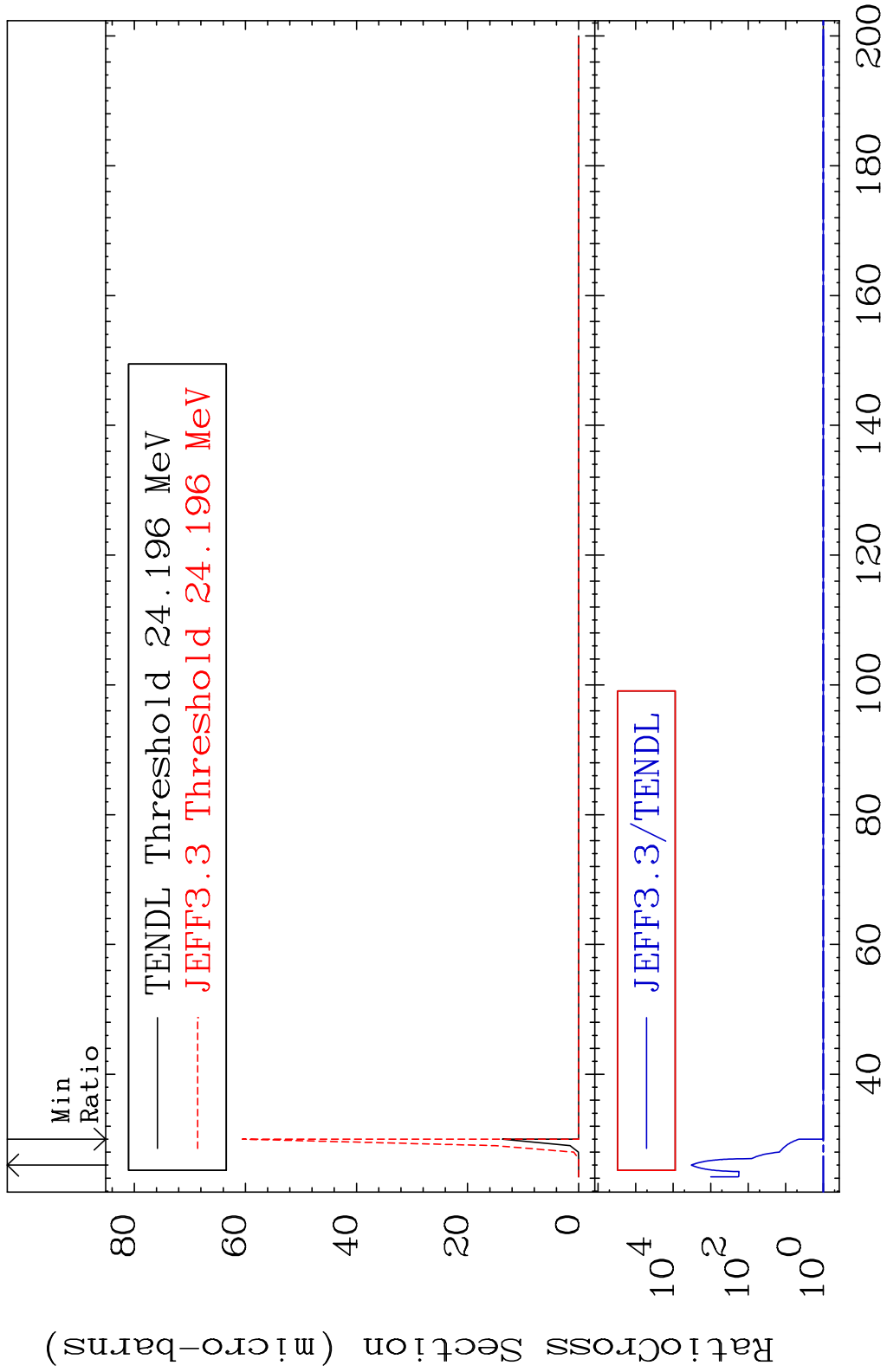
MAT 5247

(n,3n) p

52-Te-127m

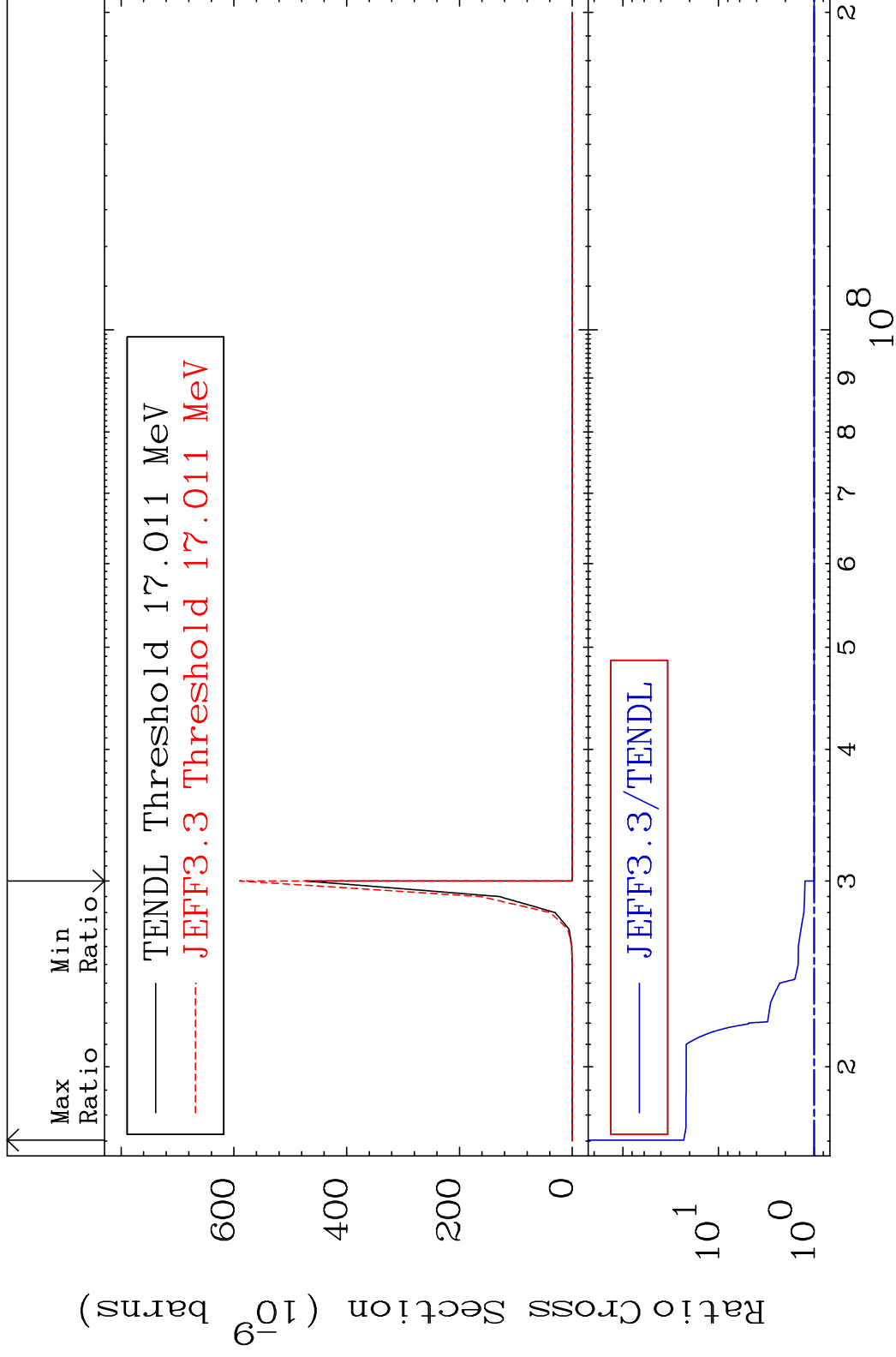
Cross Section 0.000

To 9999. %



MAT 5247

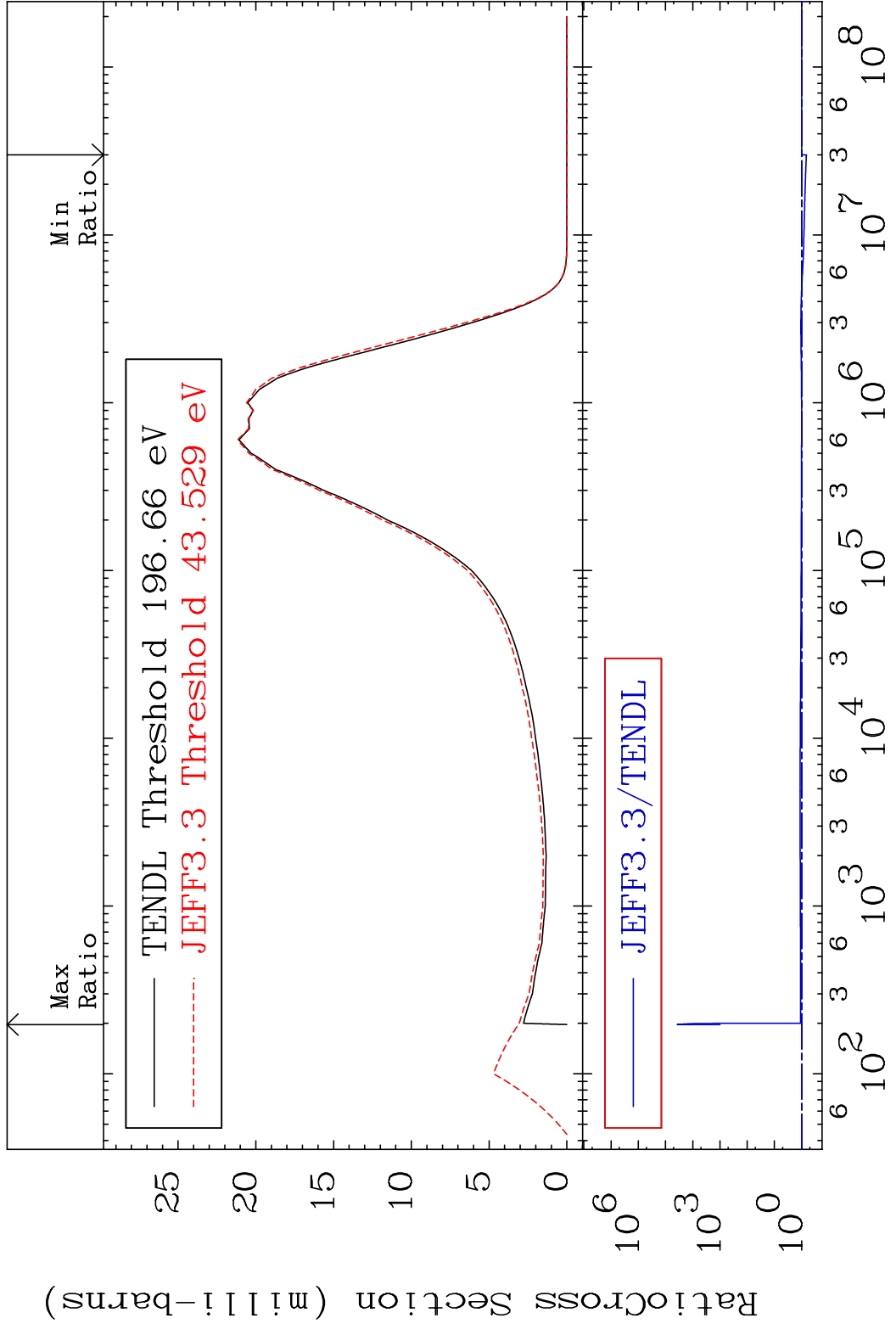
(n,2n) p 52-Te-127m
Cross Section 0.000 To 2214. %



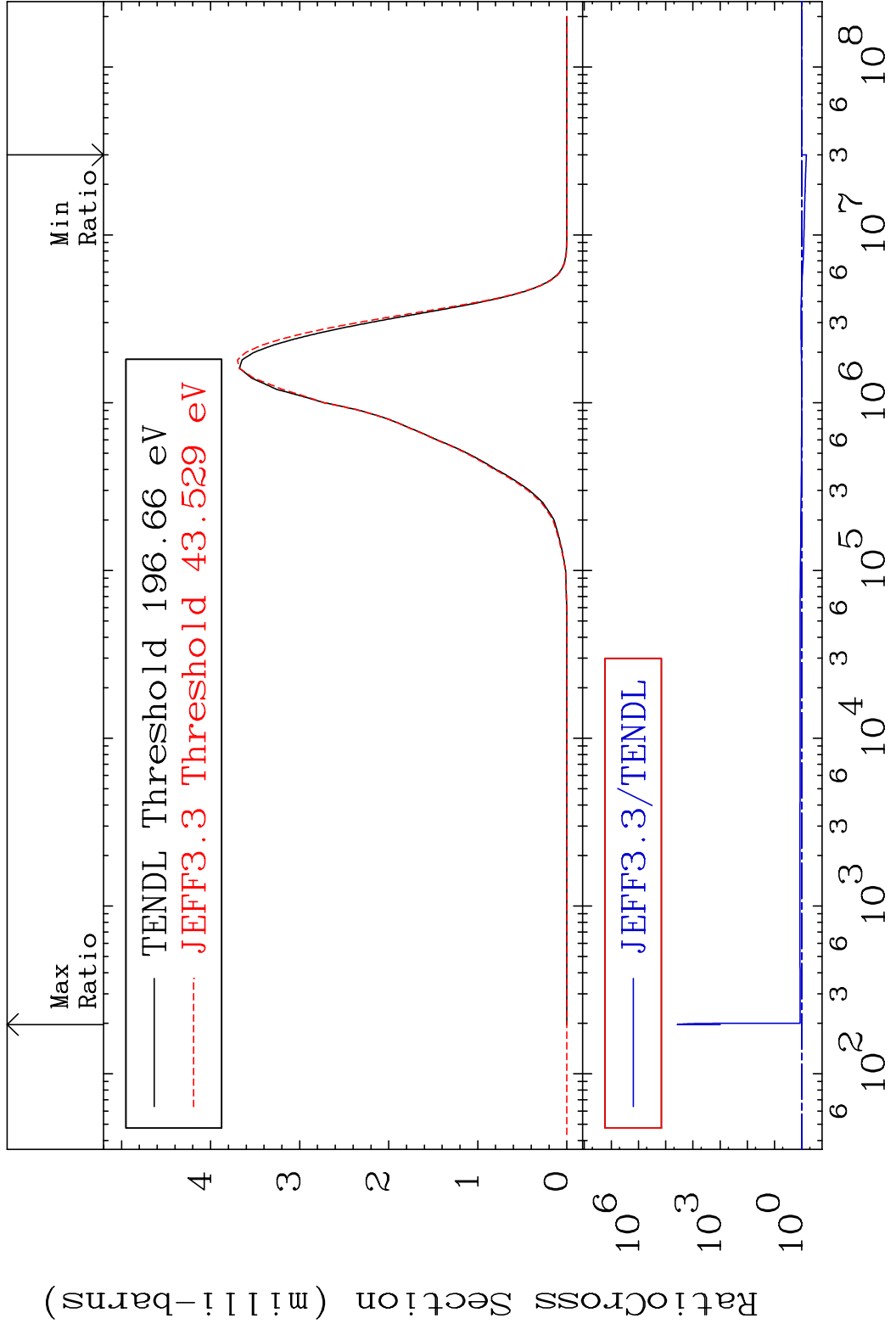
17

Incident Energy (eV) 52-Te-127m

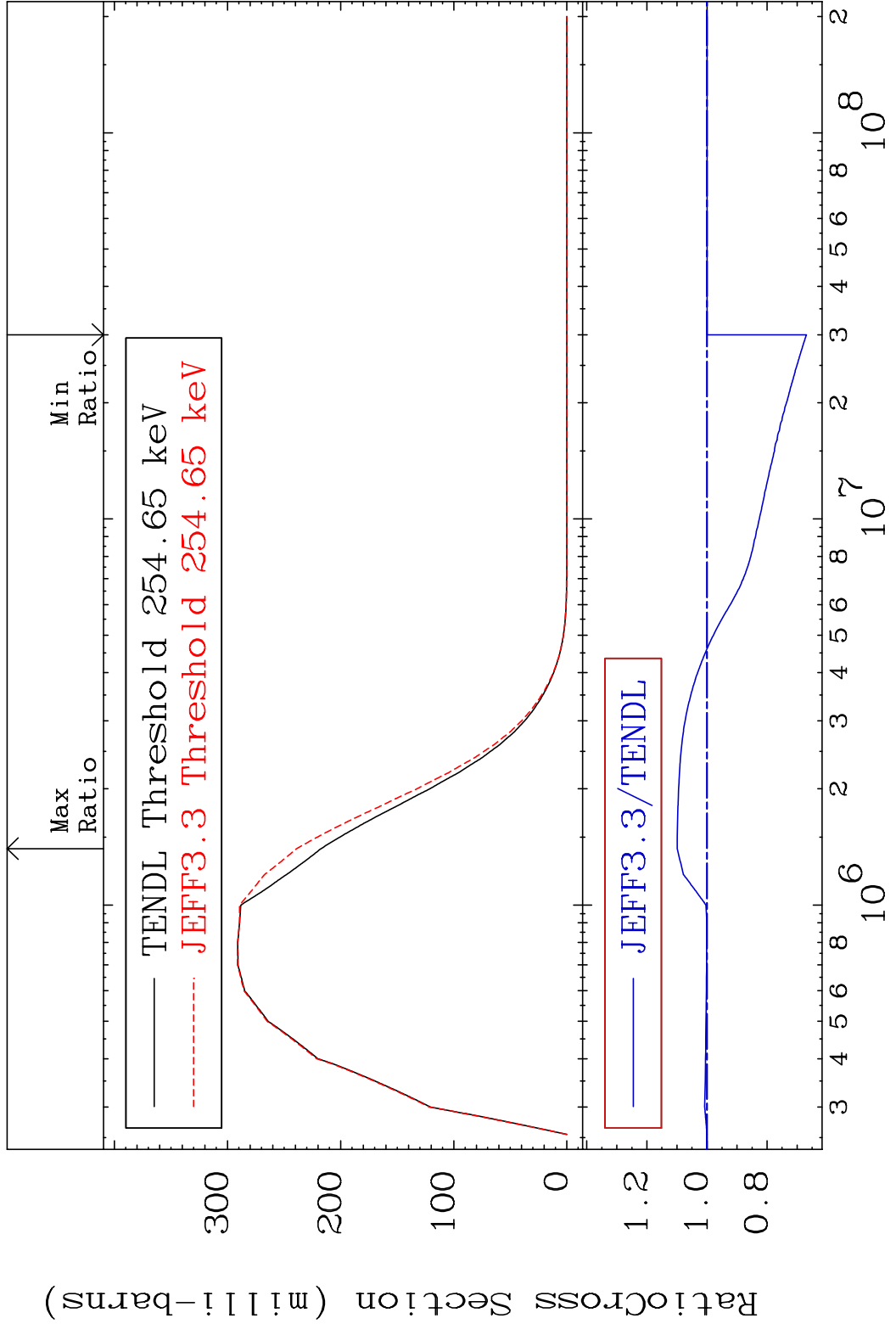
MAT 5247 MT= 51 (n, n') Level 52-Te-127m
 Cross Section -33.13 To 9999. %



MAT 5247 MT= 52 (n, n') Level 52-Te-127m
 Cross Section -33.13 To 9999. %

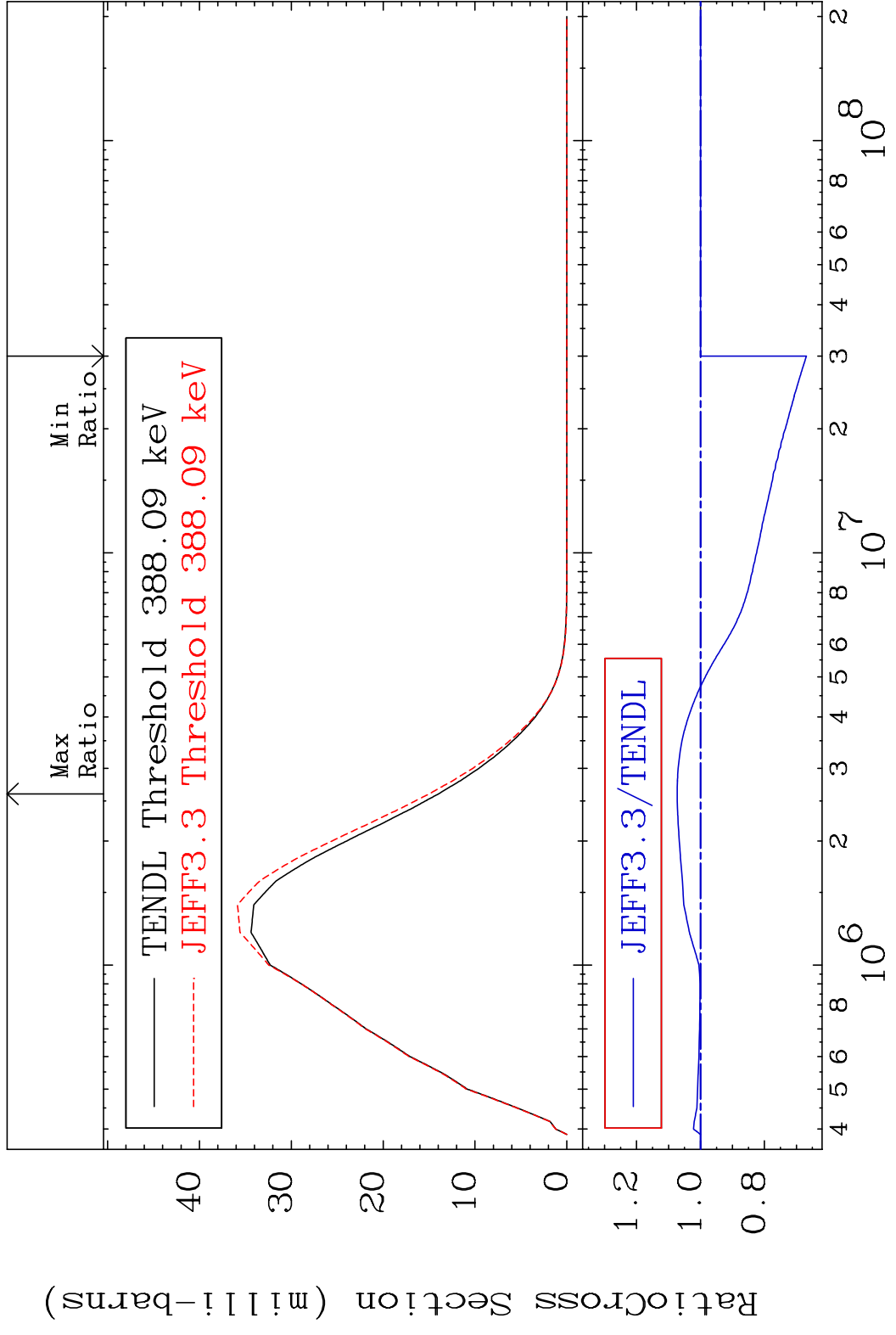


MAT 5247 MT= 53 (n,n') Level 52-Te-127m
 Cross Section -33.09 To 9.918 %

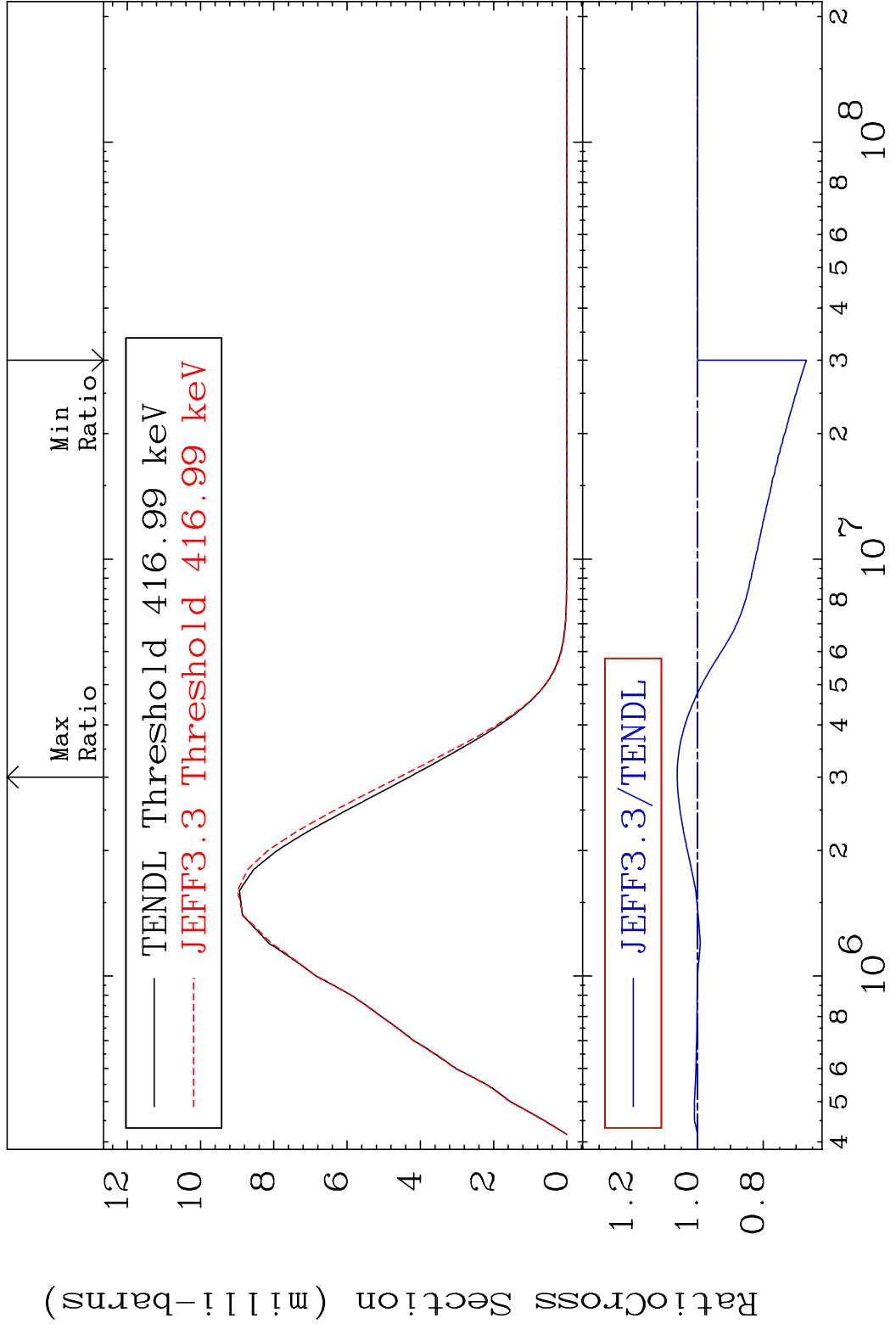


20 Incident Energy (eV) 52-Te-127m

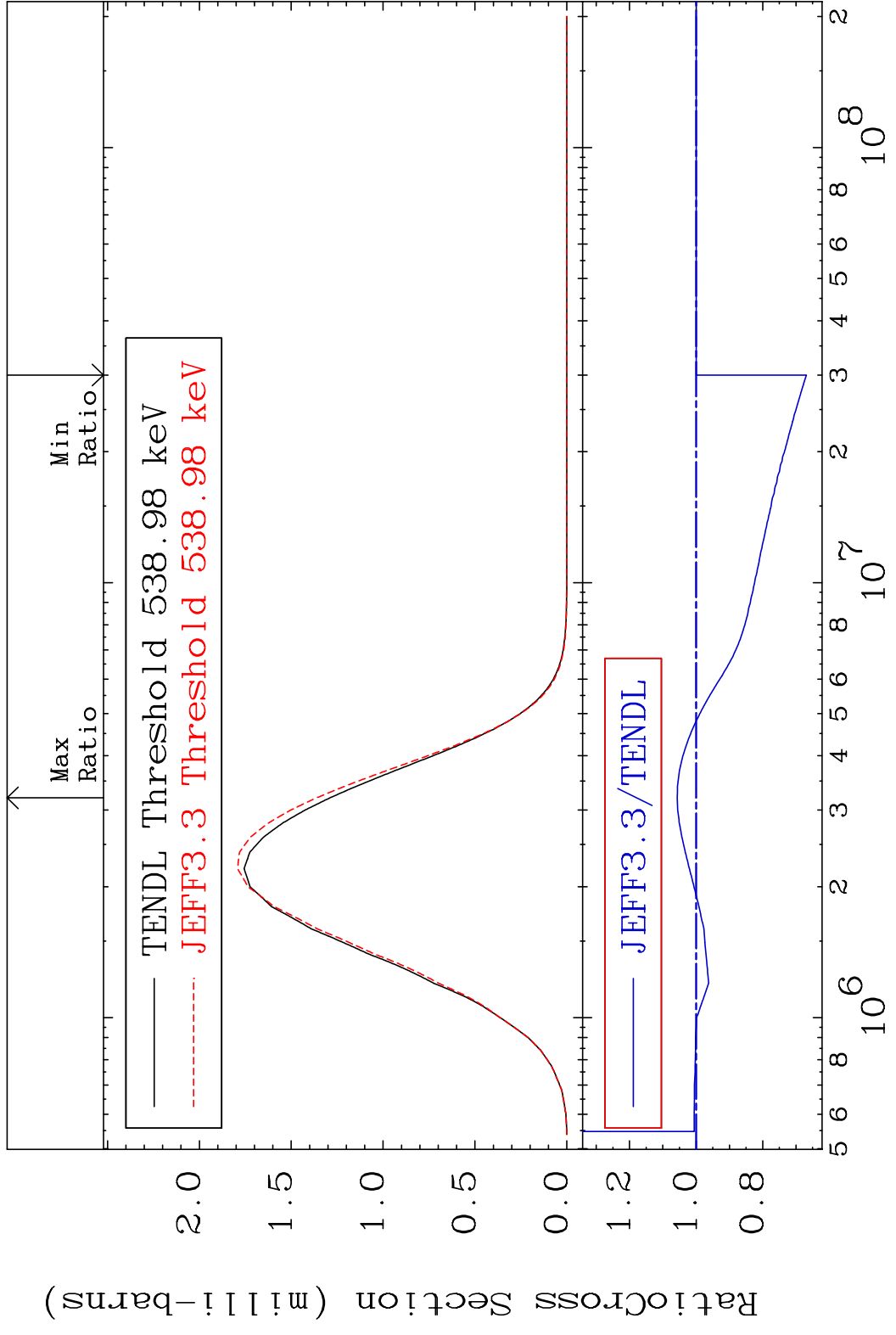
MAT 5247 MT= 54 (n, n') Level 52-Te-127m
 Cross Section -33.12 To 7.291 %



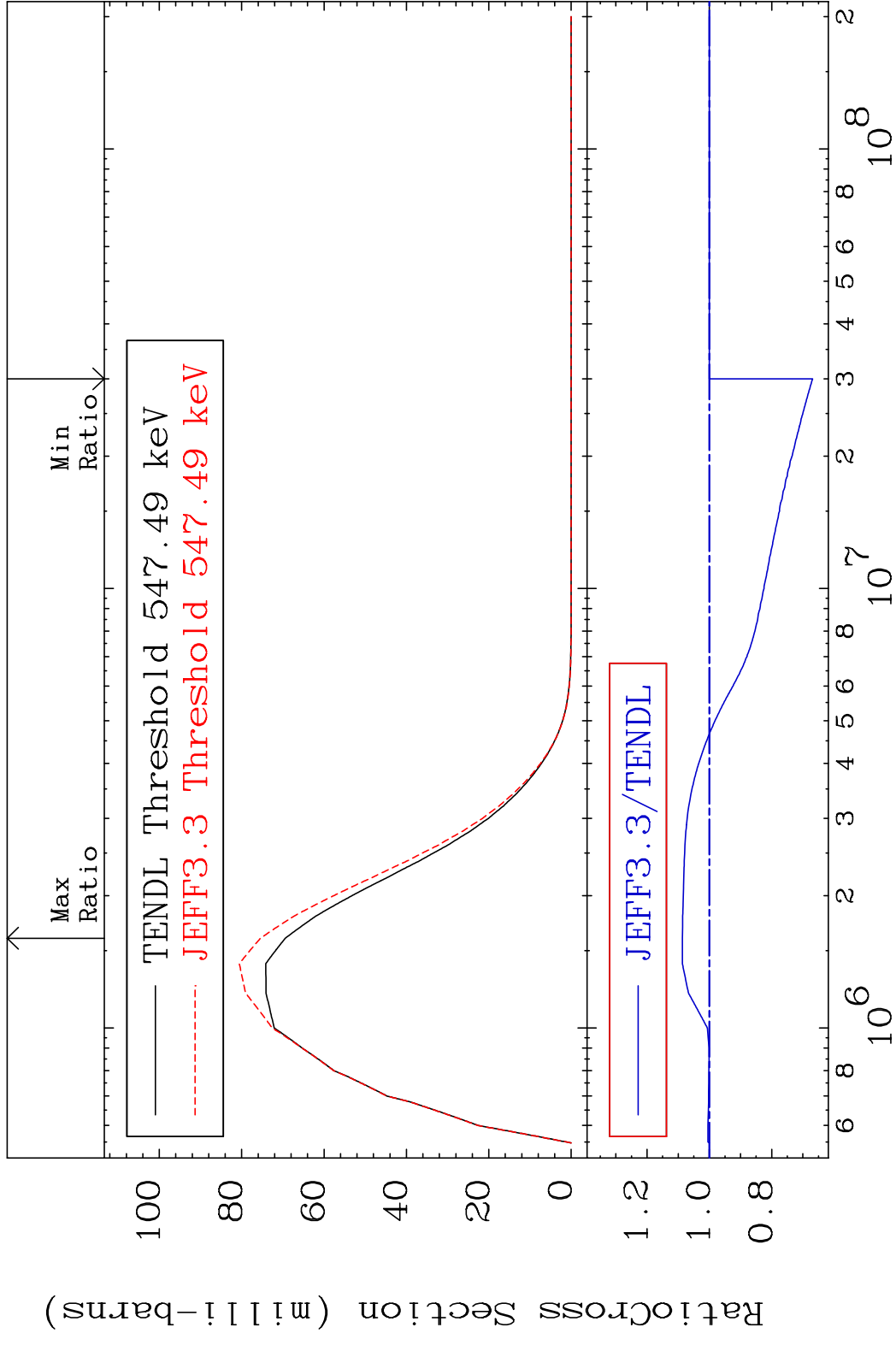
MAT 5247 MT= 55 (n,n') Level 52-Te-127m
 Cross Section -33.13 To 6.238 %



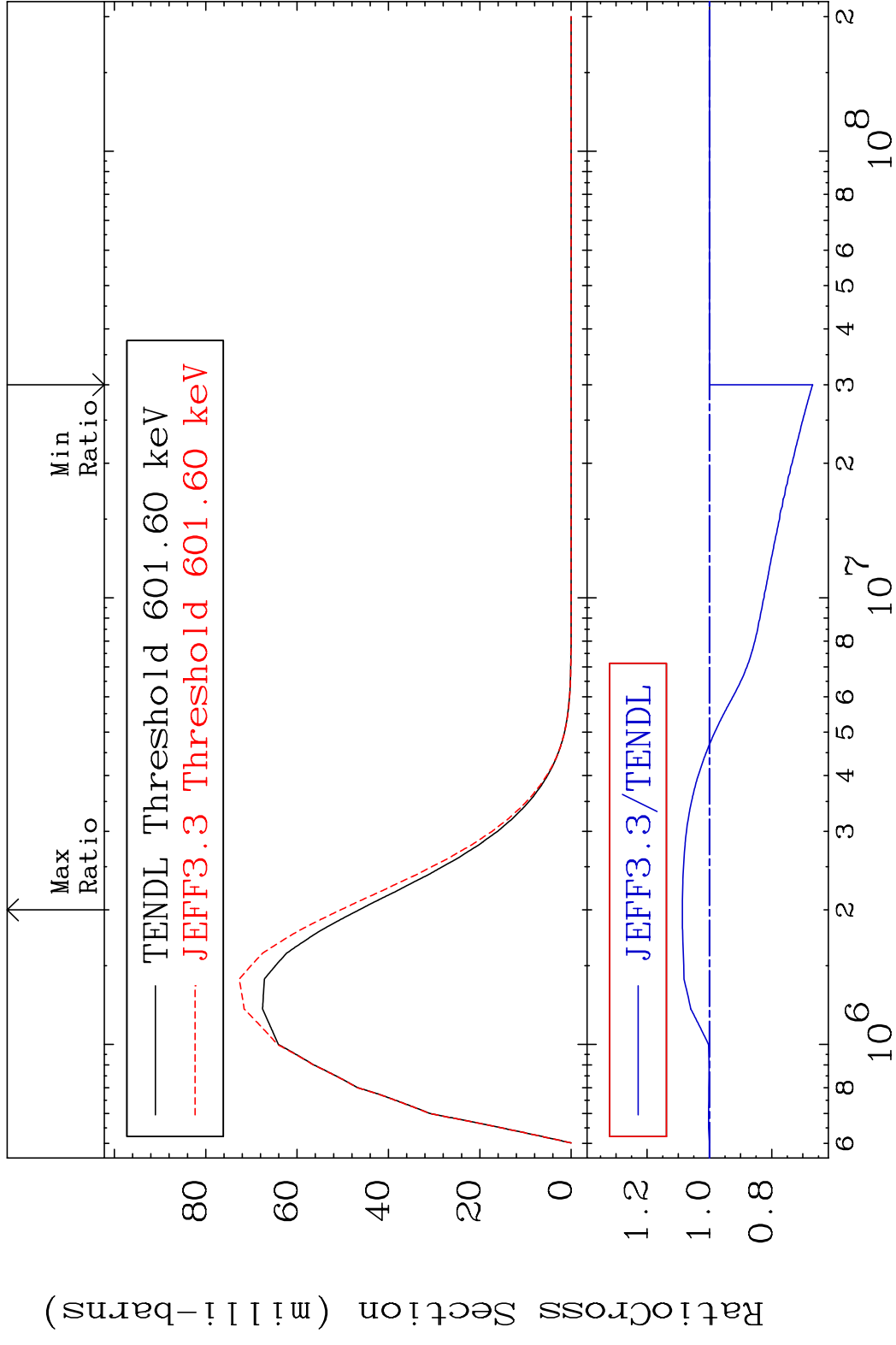
MAT 5247 MT= 56 (n, n') Level 52-Te-127m
 Cross Section -33.14 To 5.690 %



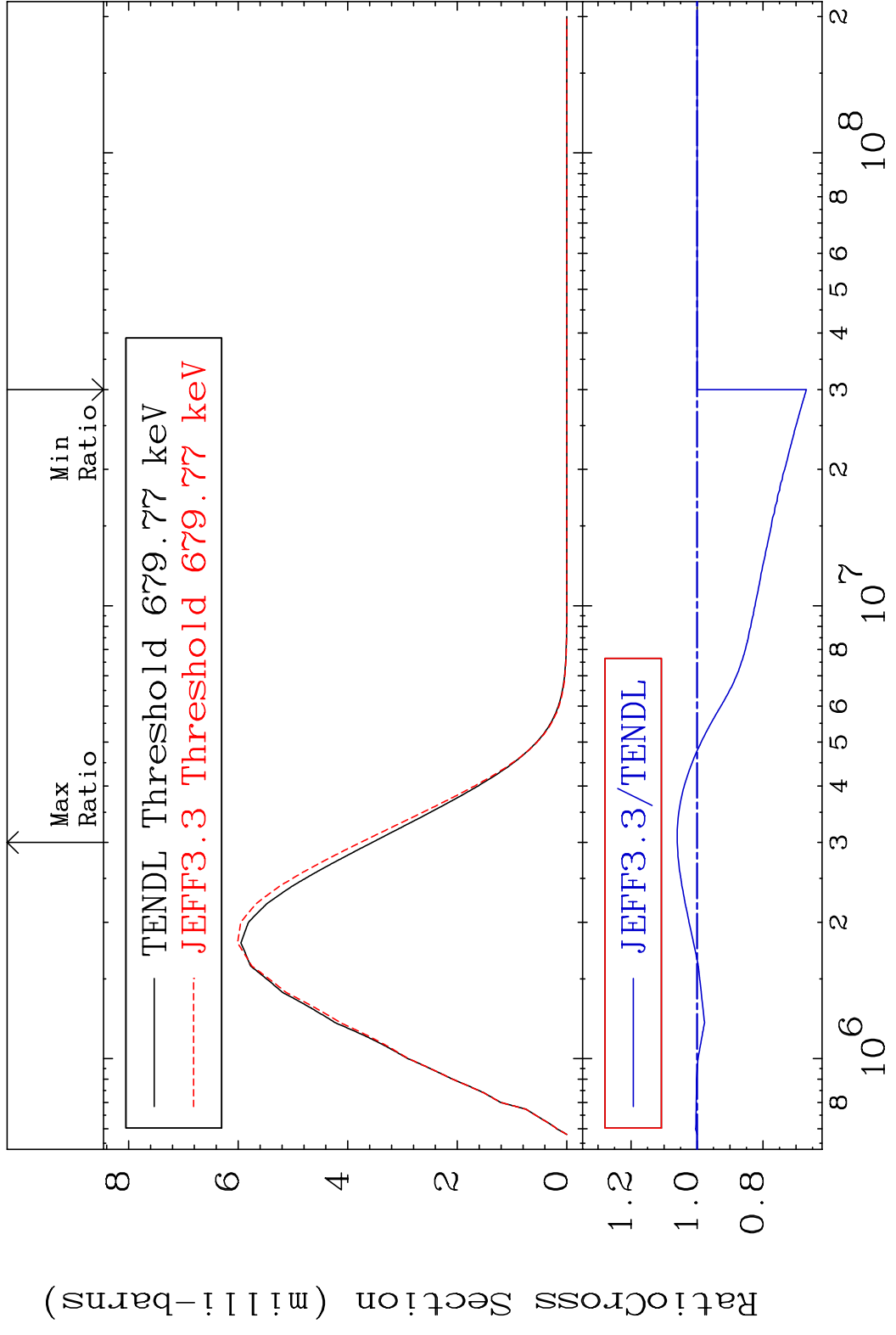
MAT 5247 MT= 57 (n, n') Level 52-Te-127m
 Cross Section -33.11 To 8.663 %



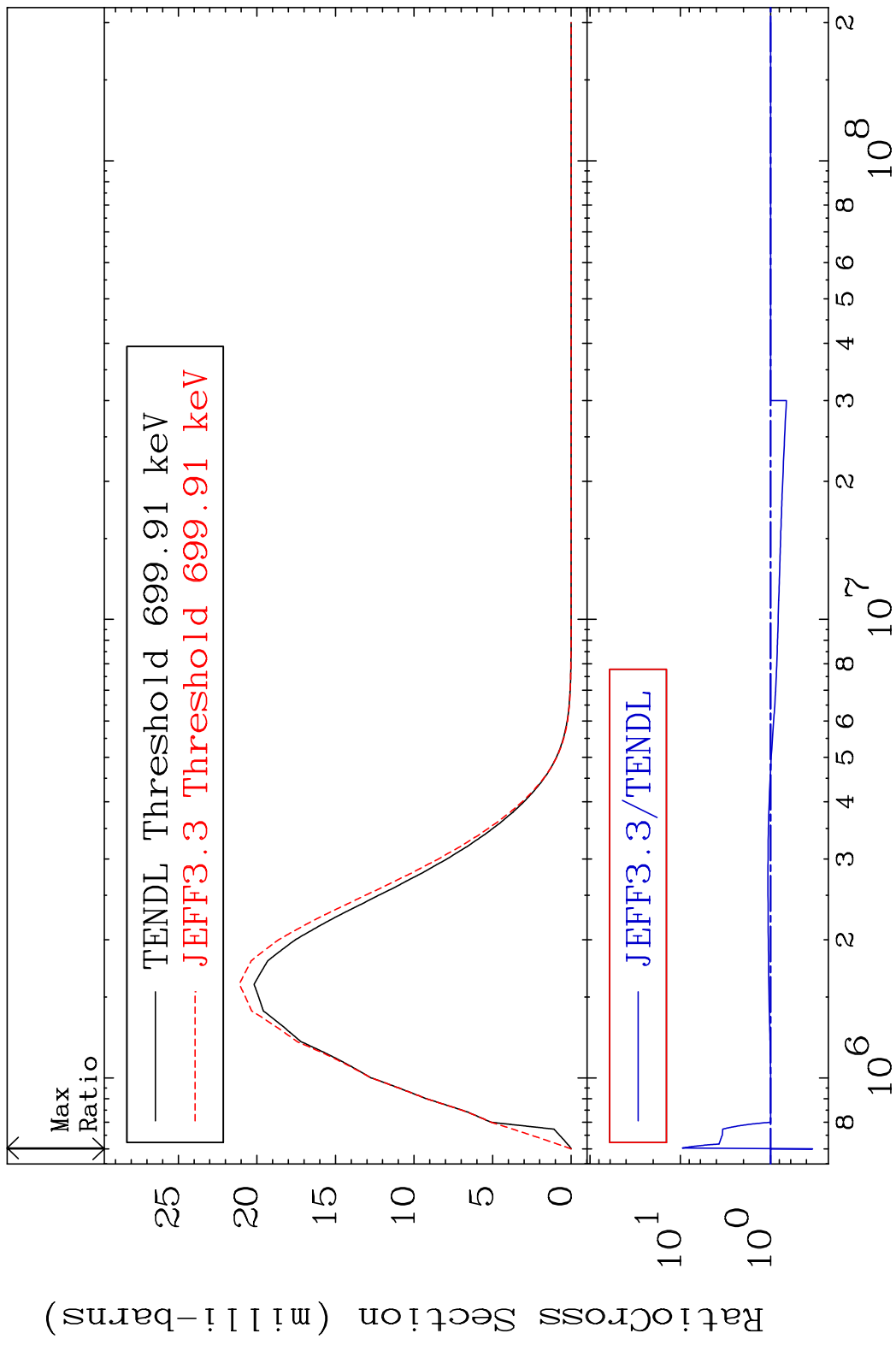
MAT 5247 MT= 58 (n, n') Level 52-Te-127m
 Cross Section -33.11 To 8.697 %



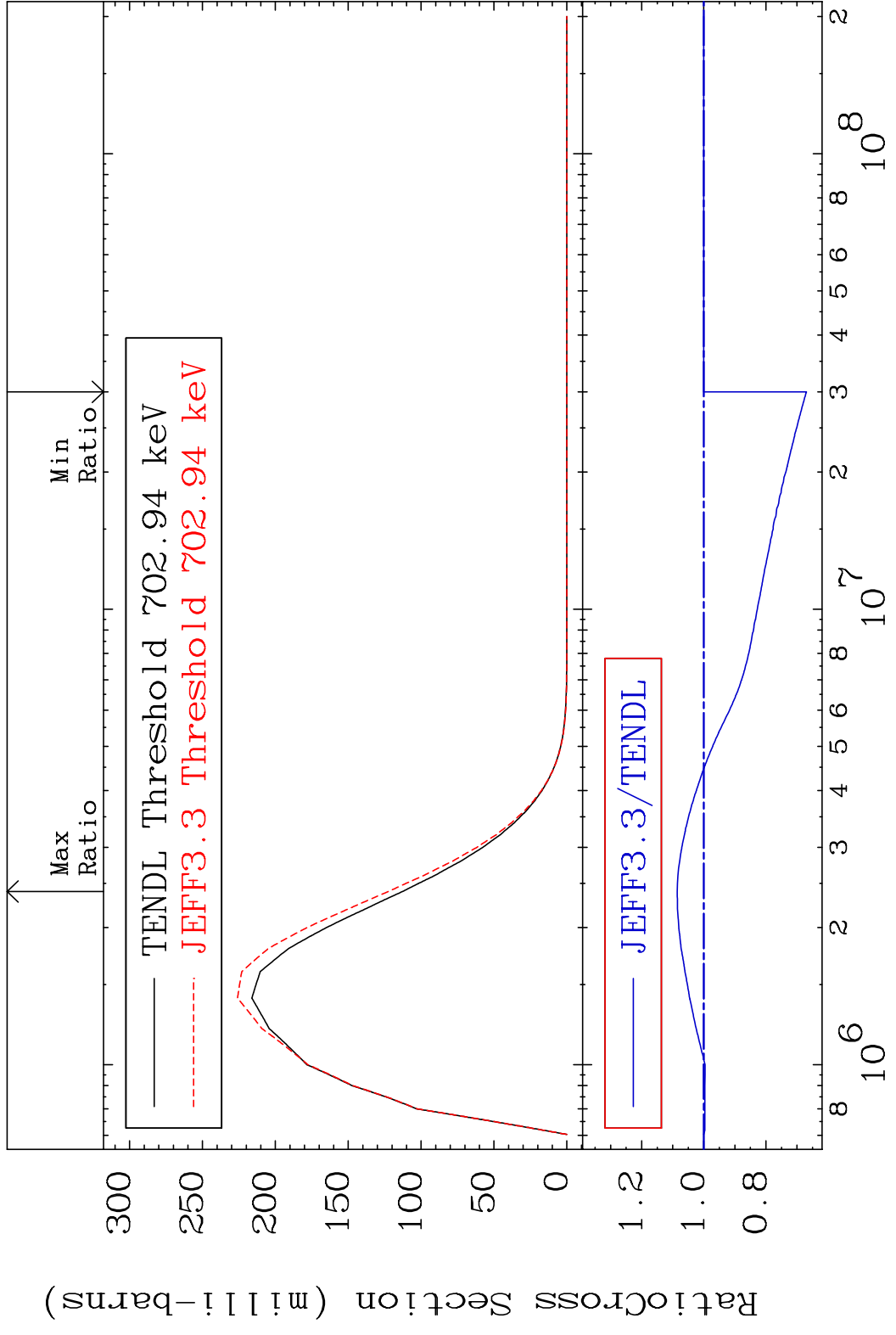
MAT 5247 MT= 59 (n, n') Level 52-Te-127m
 Cross Section -33.13 To 6.011 %



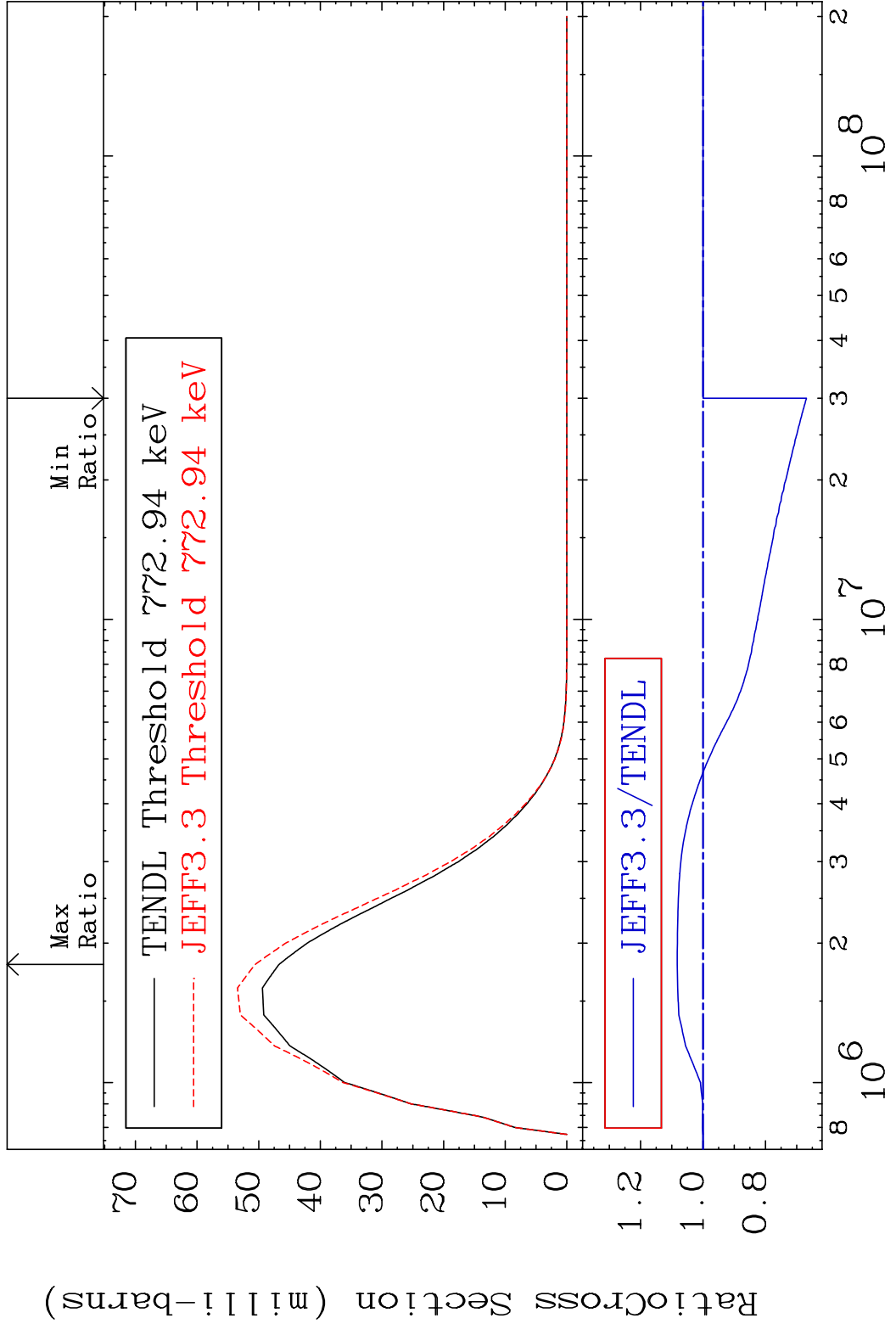
MAT 5247 MT= 60 (n,n') Level 52-Te-127m
 Cross Section -65.68 To 850.7 %



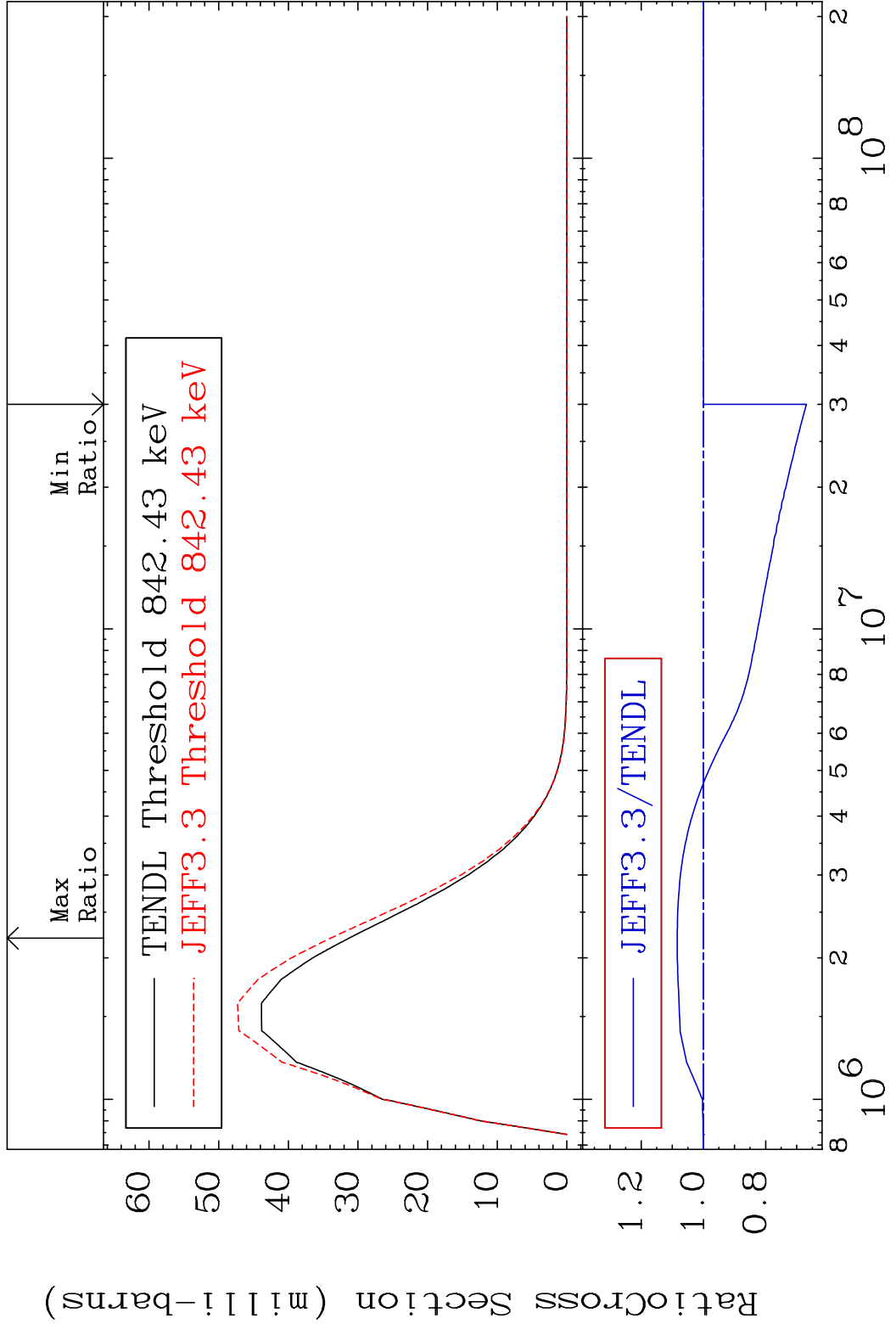
MAT 5247 MT= 61 (n,n') Level 52-Te-127m
 Cross Section -33.02 To 8.568 %



MAT 5247 MT= 62 (n, n') Level 52-Te-127m
 Cross Section -33.11 To 8.272 %

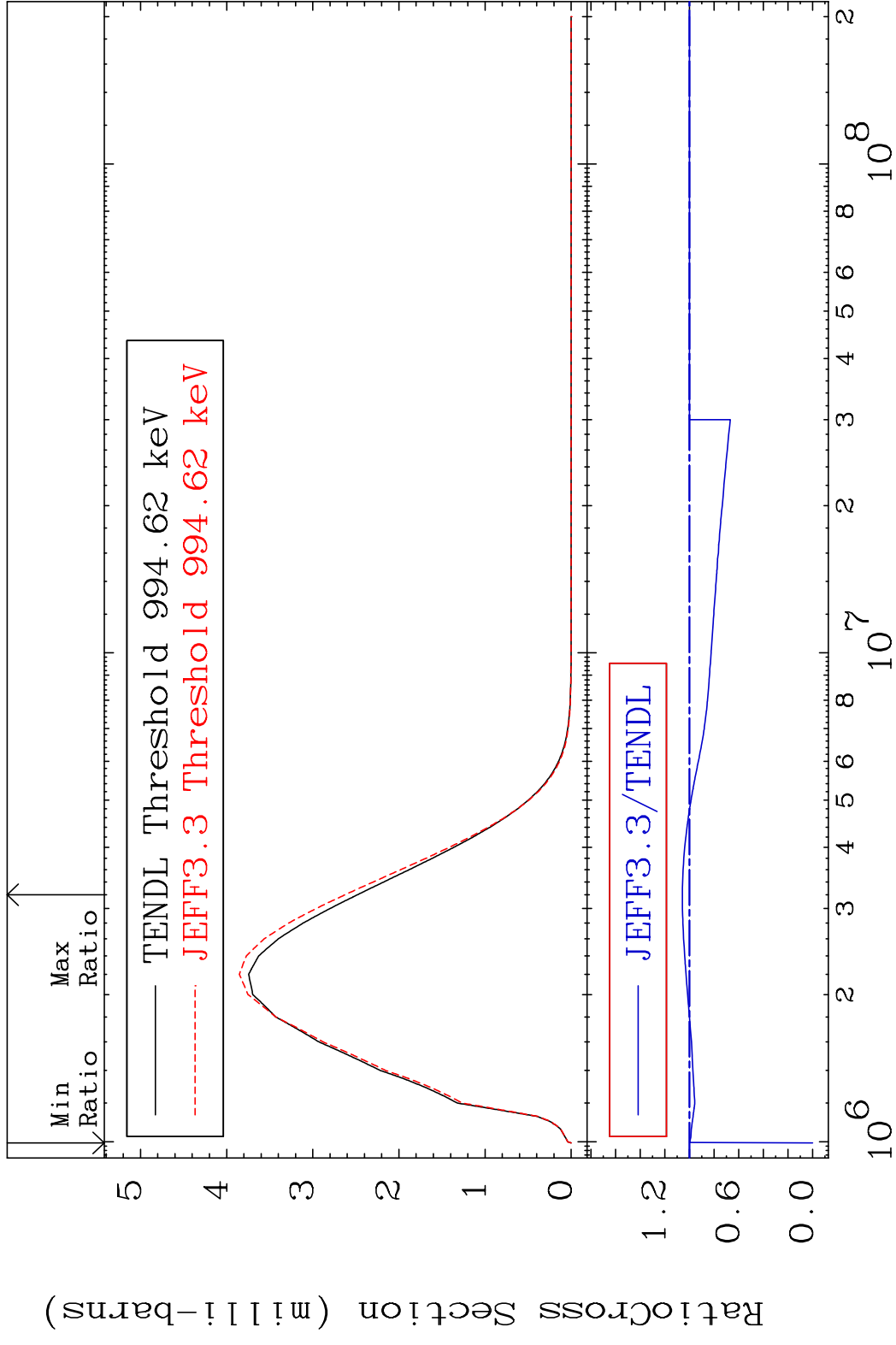


MAT 5247 MT= 63 (n,n') Level 52-Te-127m
 Cross Section -33.11 To 8.420 %

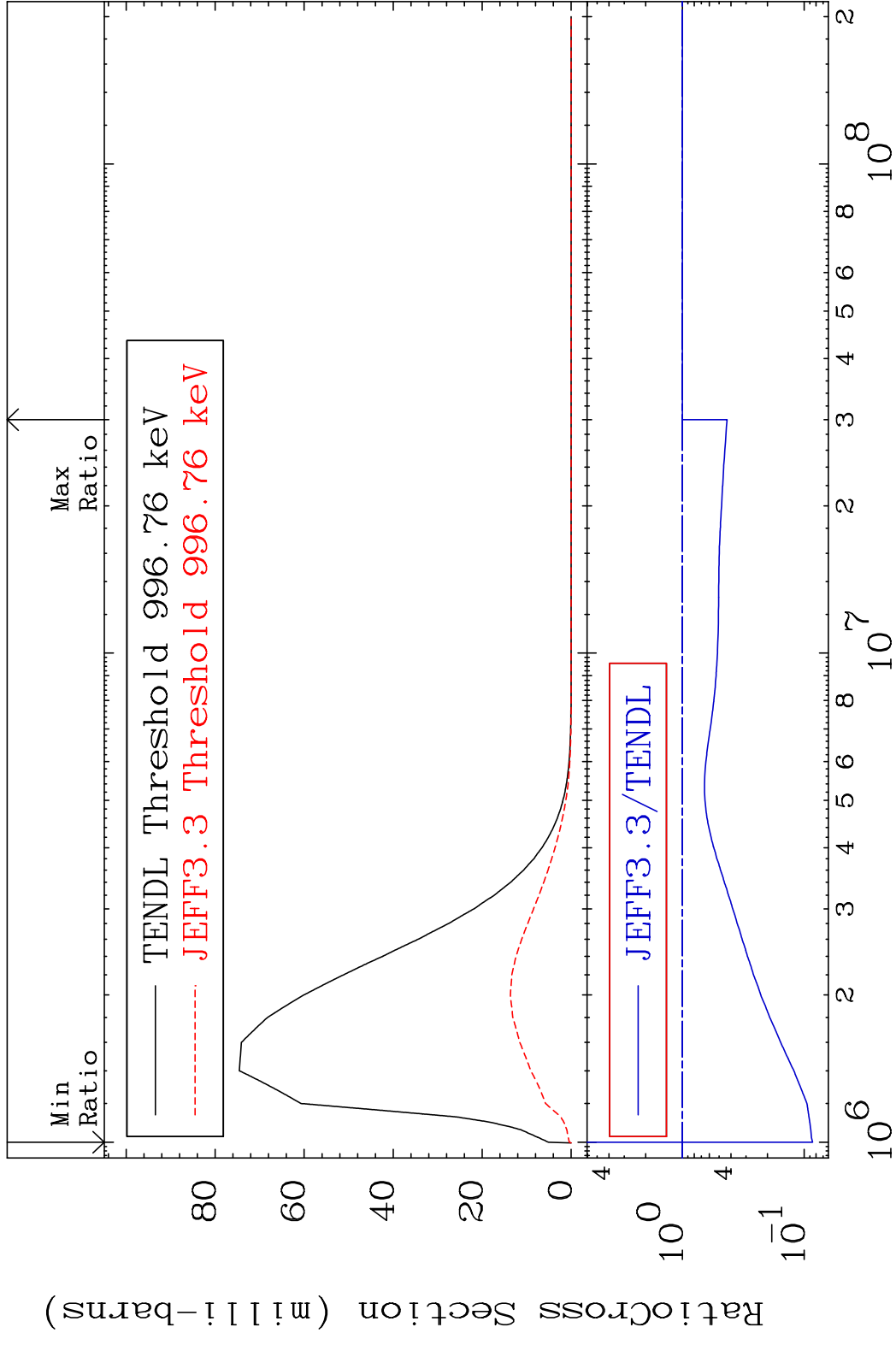


30 Incident Energy (eV) 52-Te-127m

MAT 5247 MT= 64 (n,n') Level 52-Te-127m
 Cross Section -100.0 To 5.807 %

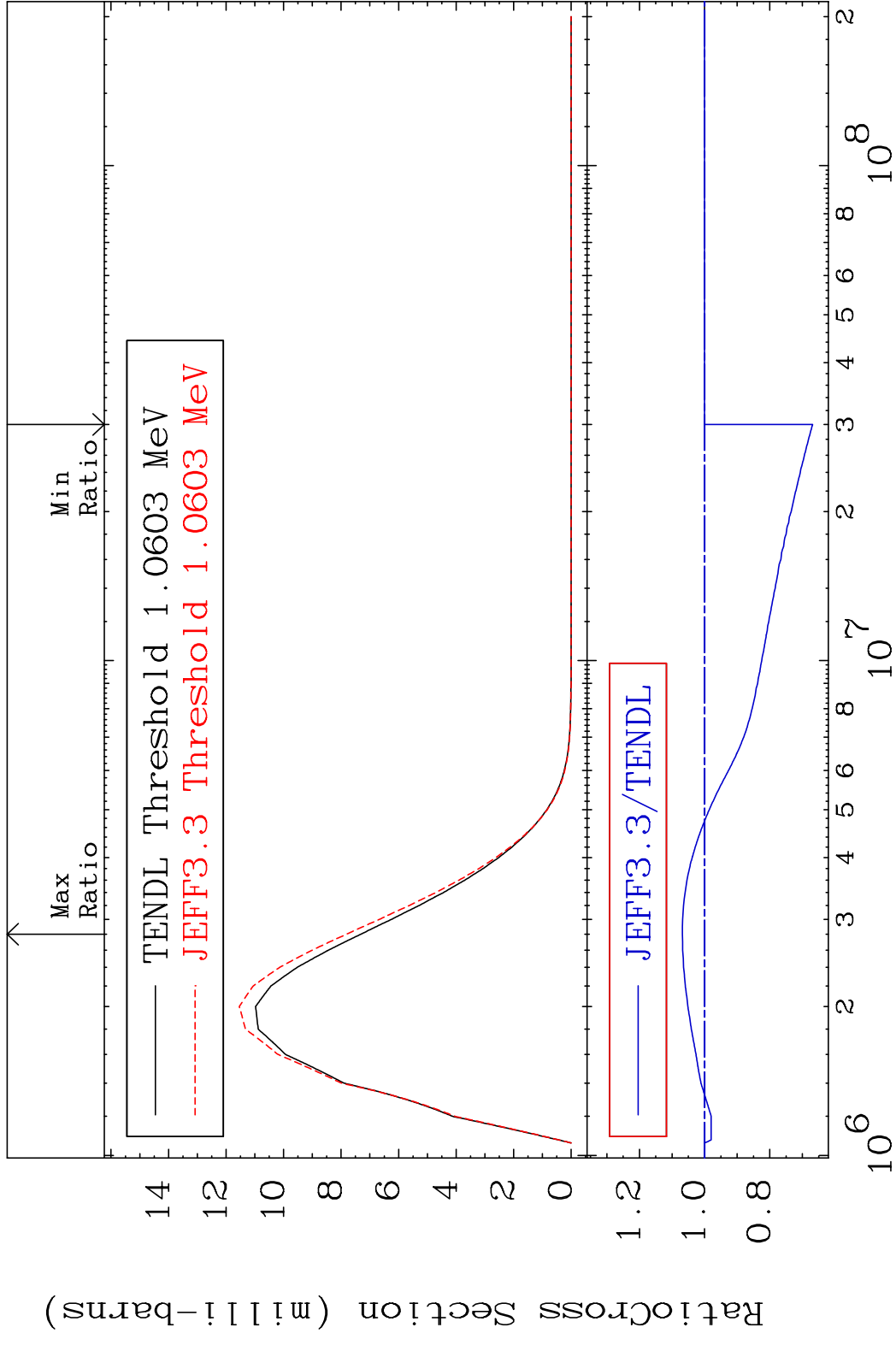


MAT 5247 MT= 65 (n,n') Level 52-Te-127m
 Cross Section -91.45 To 0.000 %

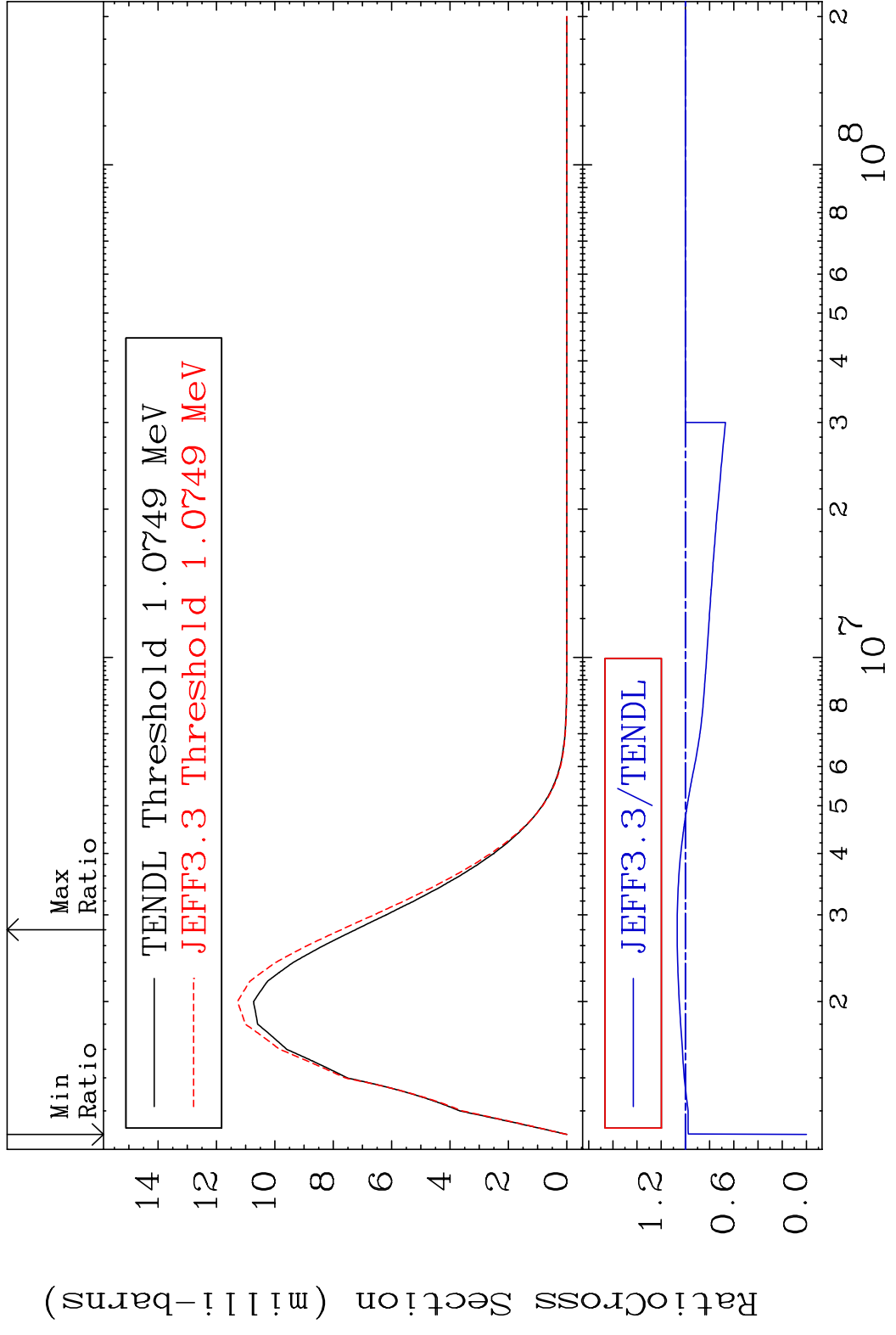


32 Incident Energy (eV) 52-Te-127m

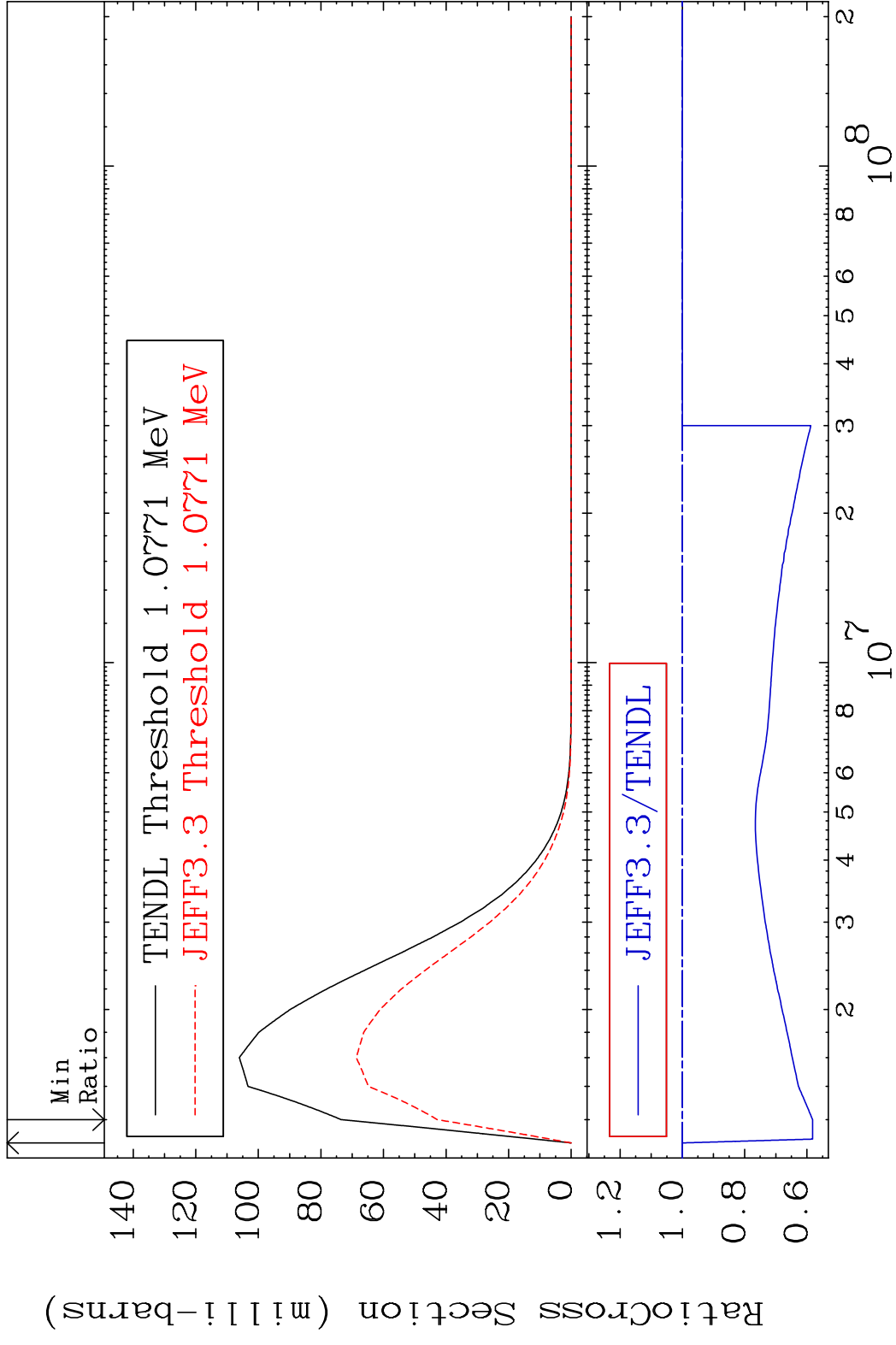
MAT 5247 MT= 66 (n,n') Level 52-Te-127m
 Cross Section -33.12 To 6.828 %



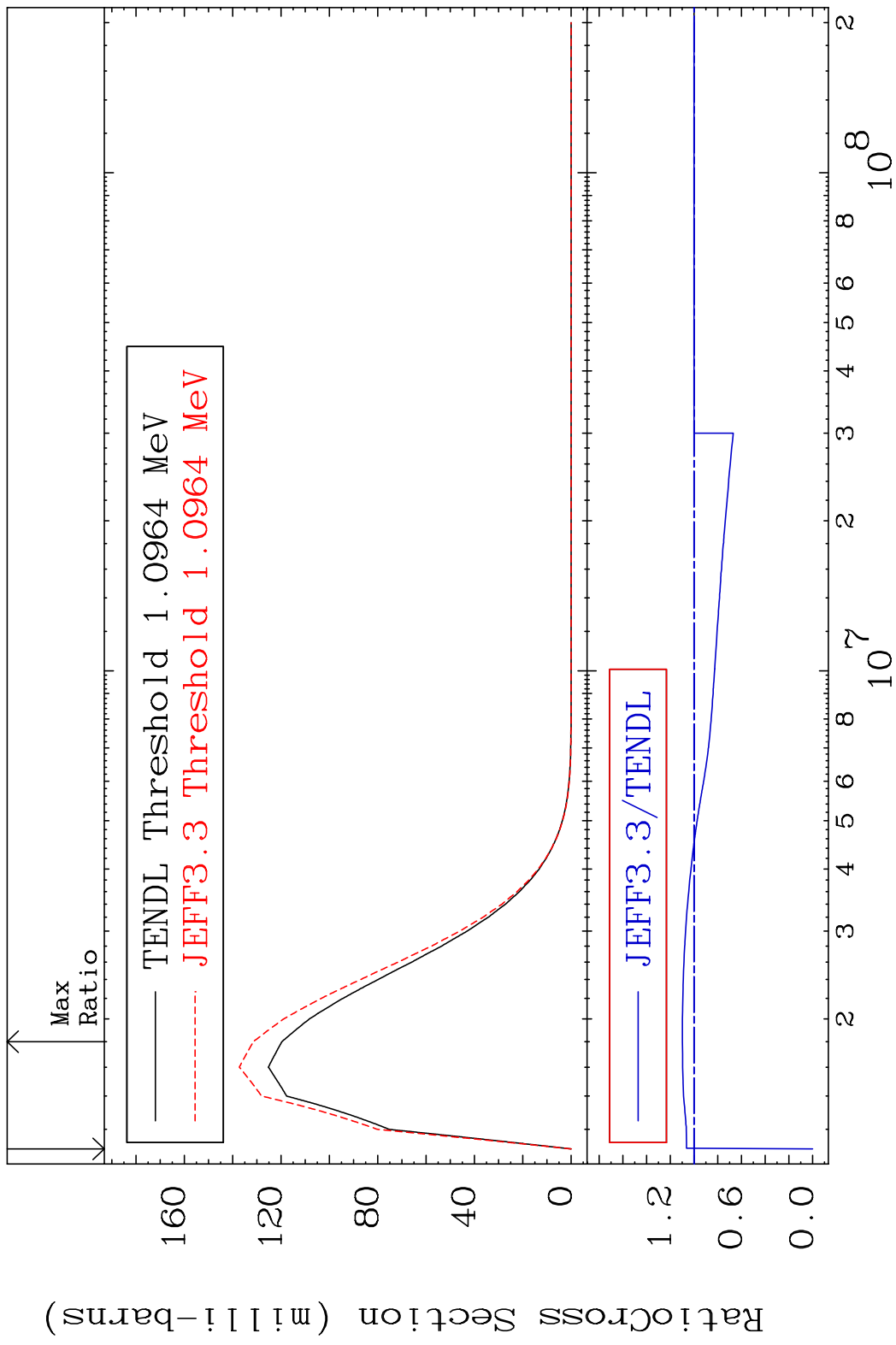
MAT 5247 MT= 67 (n,n') Level 52-Te-127m
 Cross Section -100.0 To 6.819 %



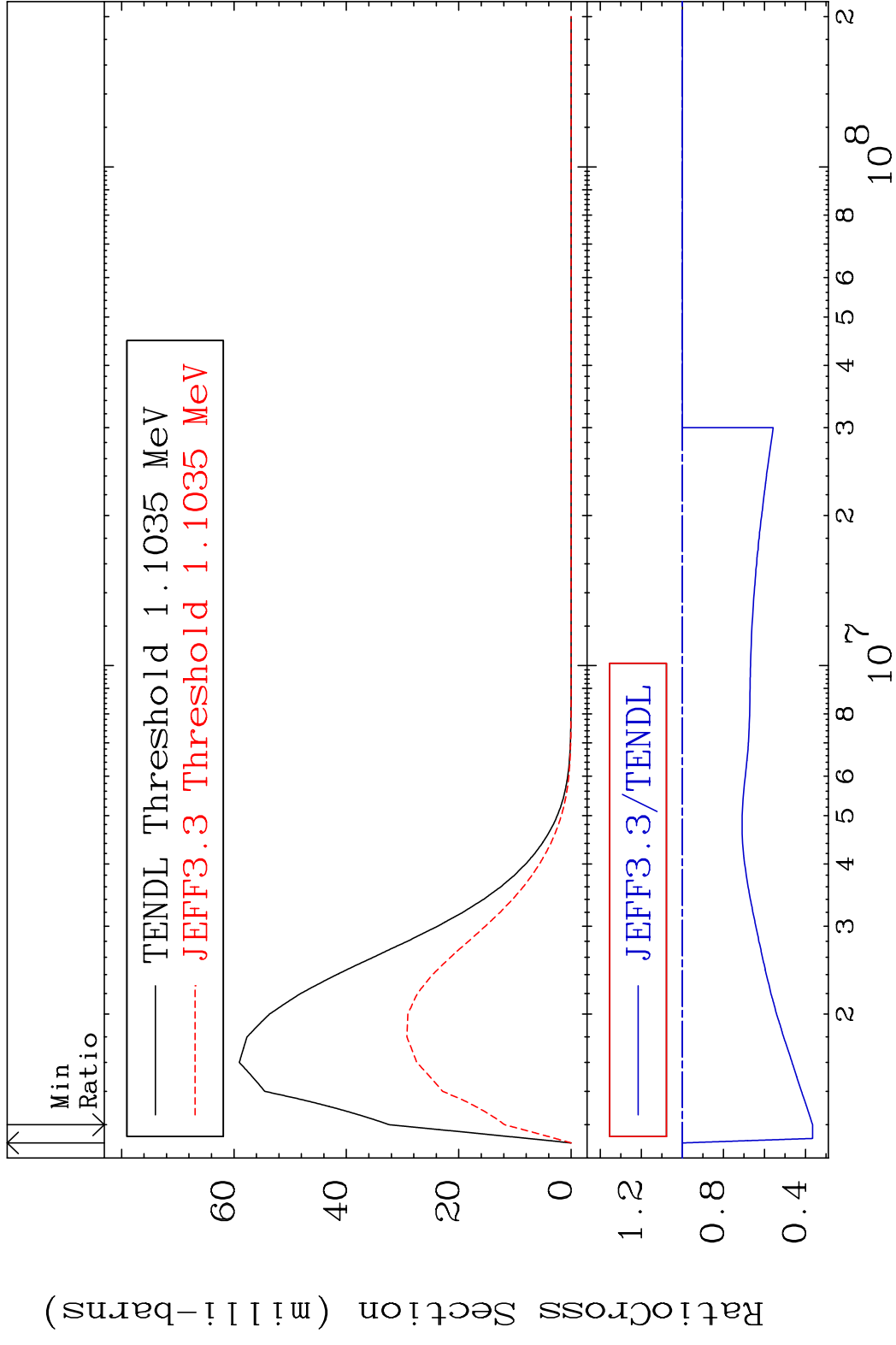
MAT 5247 MT= 68 (n,n') Level 52-Te-127m
 Cross Section -41.78 To 0.000 %



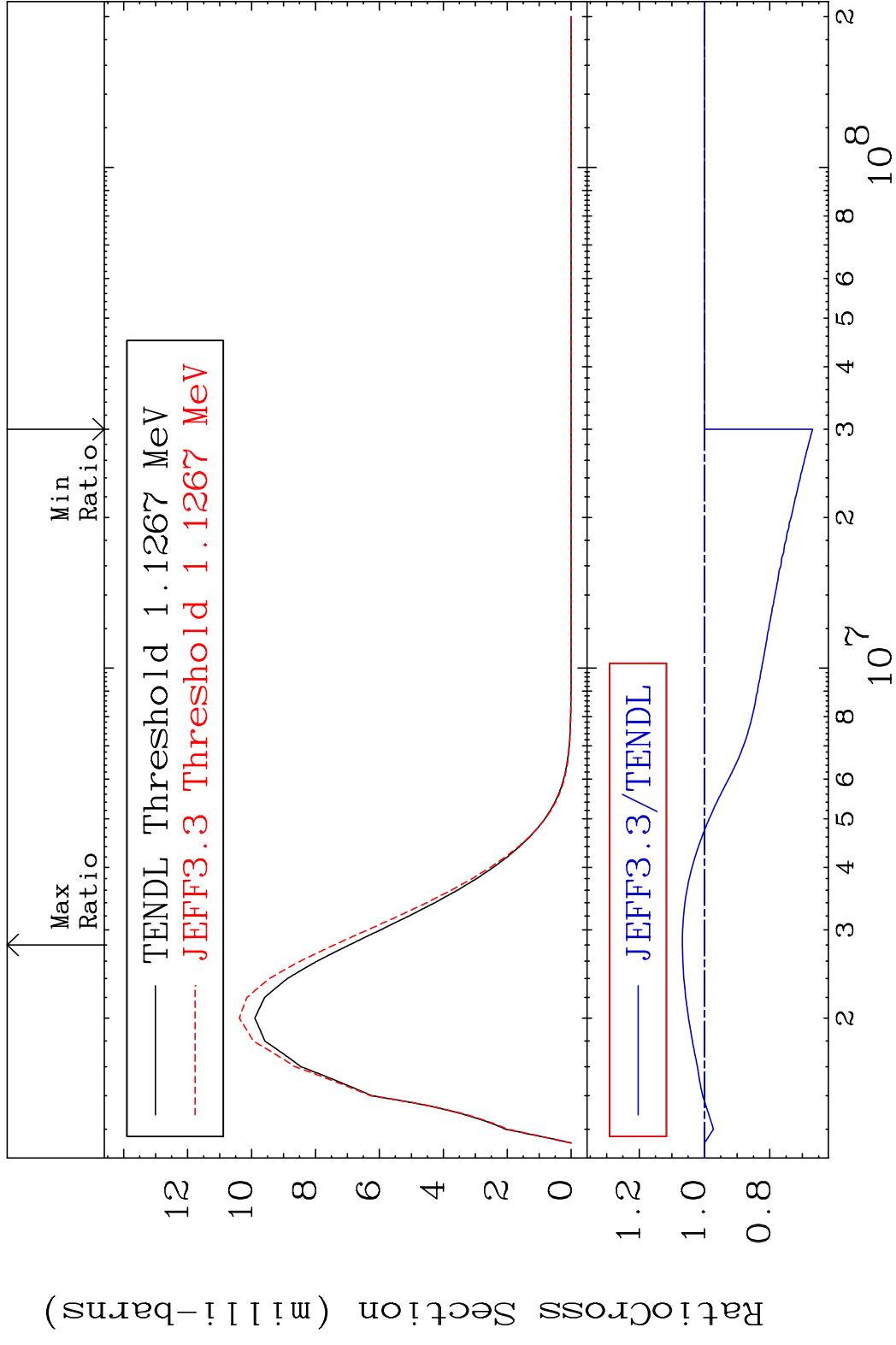
MAT 5247 MT= 69 (n,n') Level 52-Te-127m
 Cross Section -100.0 To 9.859 %



MAT 5247 MT= 70 (n, n') Level 52-Te-127m
 Cross Section -63.45 To 0.000 %



MAT 5247 MT= 71 (n, n') Level 52-Te-127m
 Cross Section -33.12 To 6.786 %

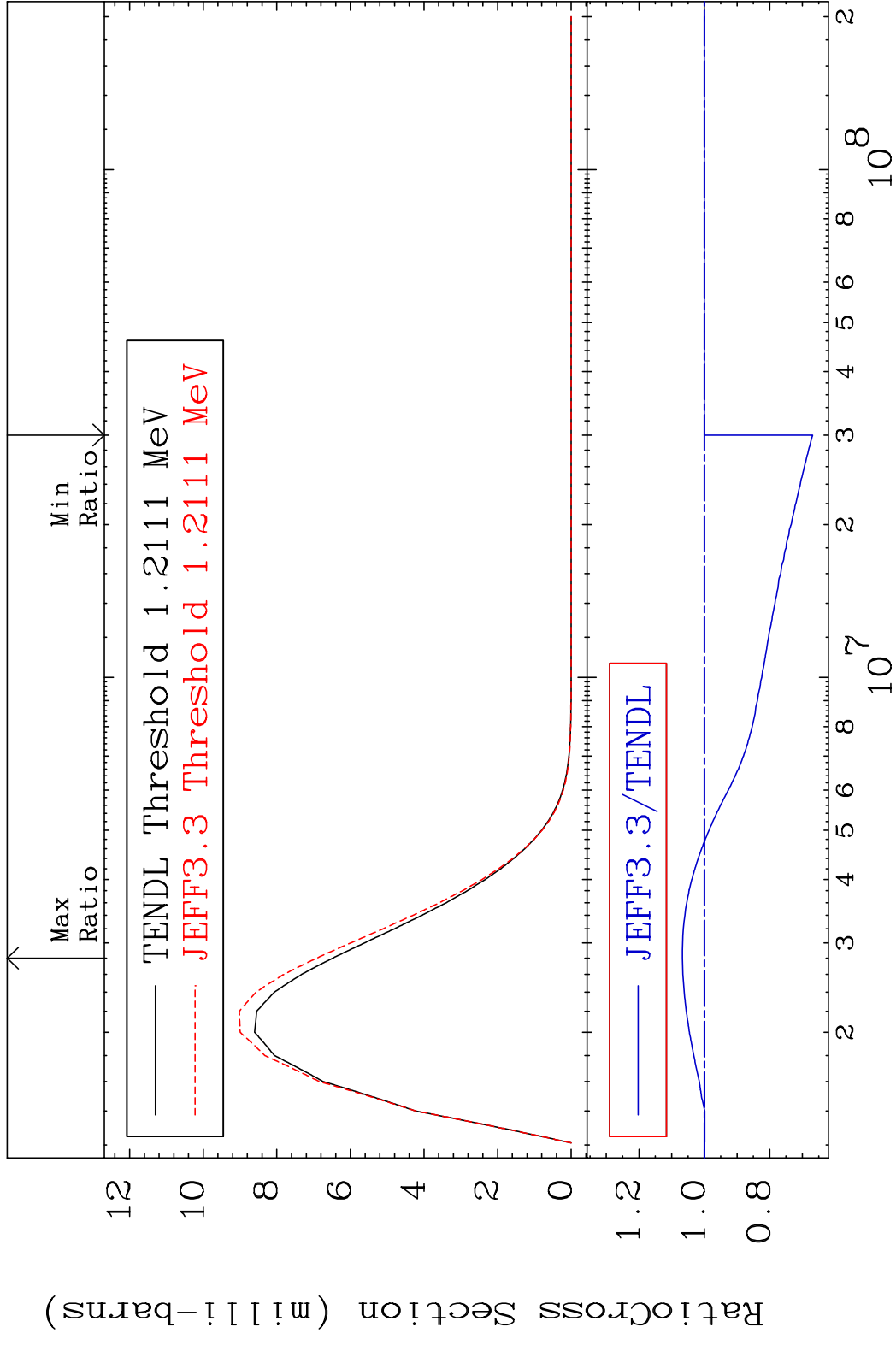


MAT 5247

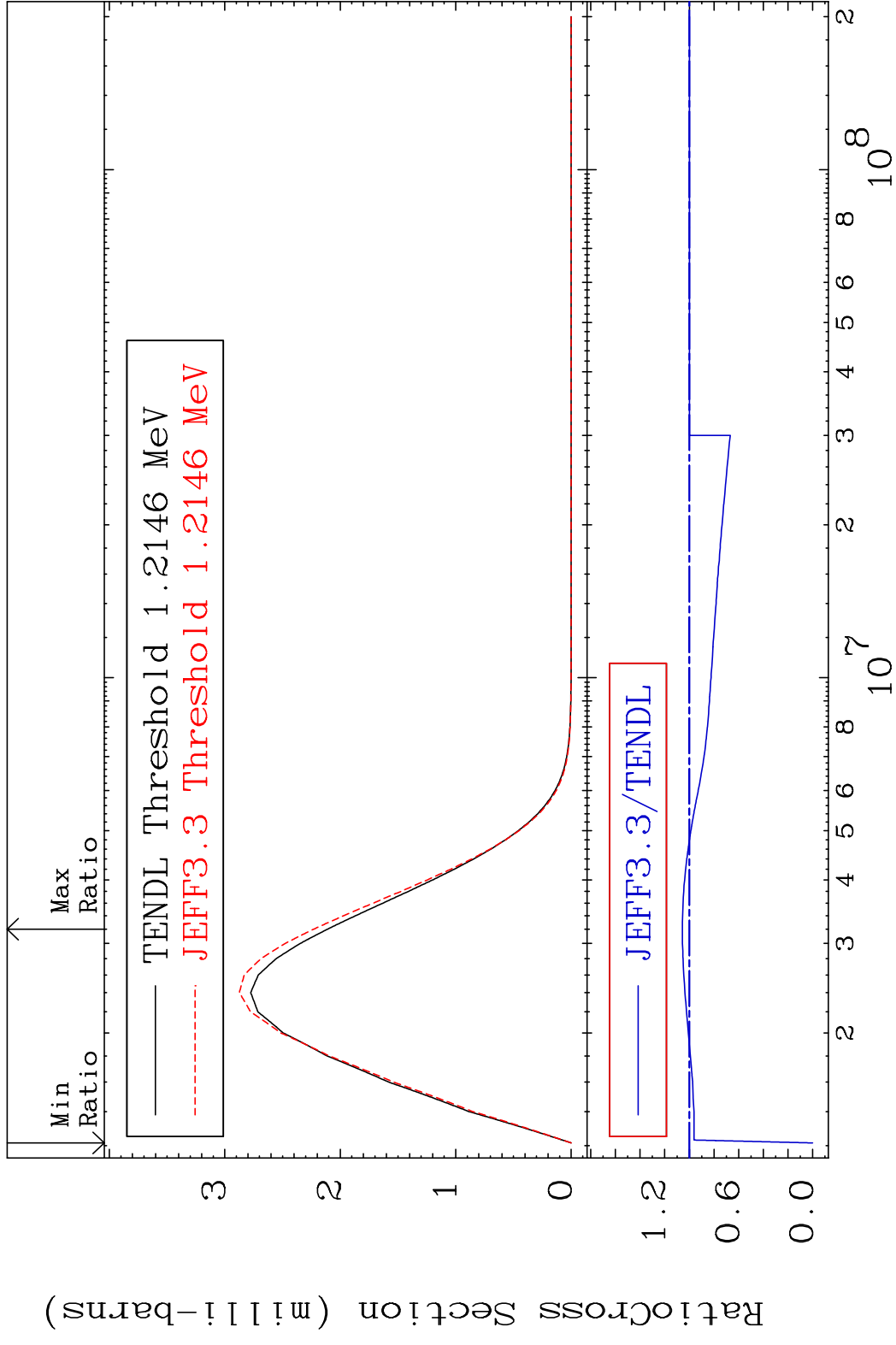
MT= 72 (n, n') Level

52-Te-127m

Cross Section -33.12 To 6.729 %

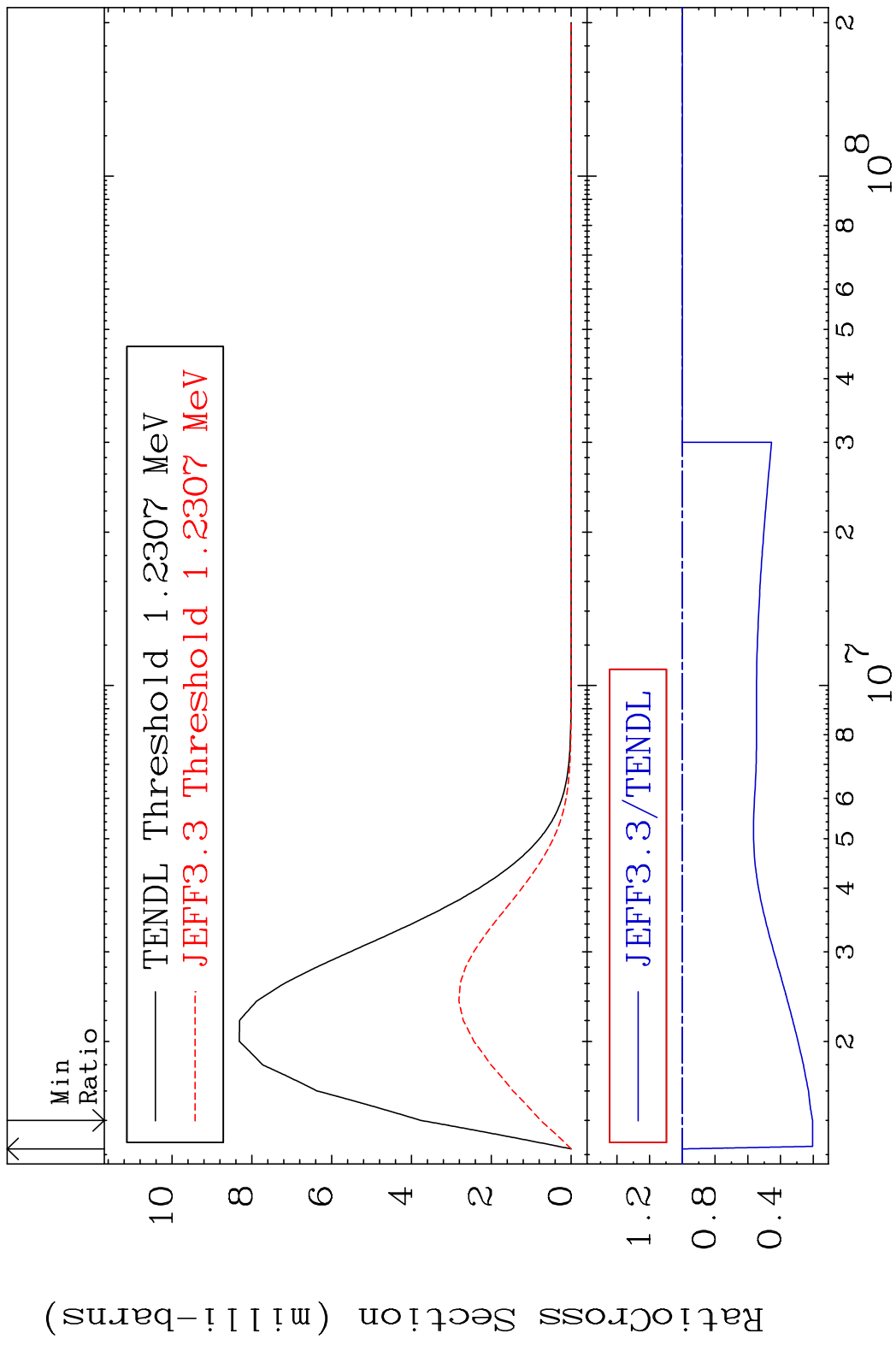


MAT 5247 MT= 73 (n, n') Level 52-Te-127m
 Cross Section -100.0 To 5.680 %

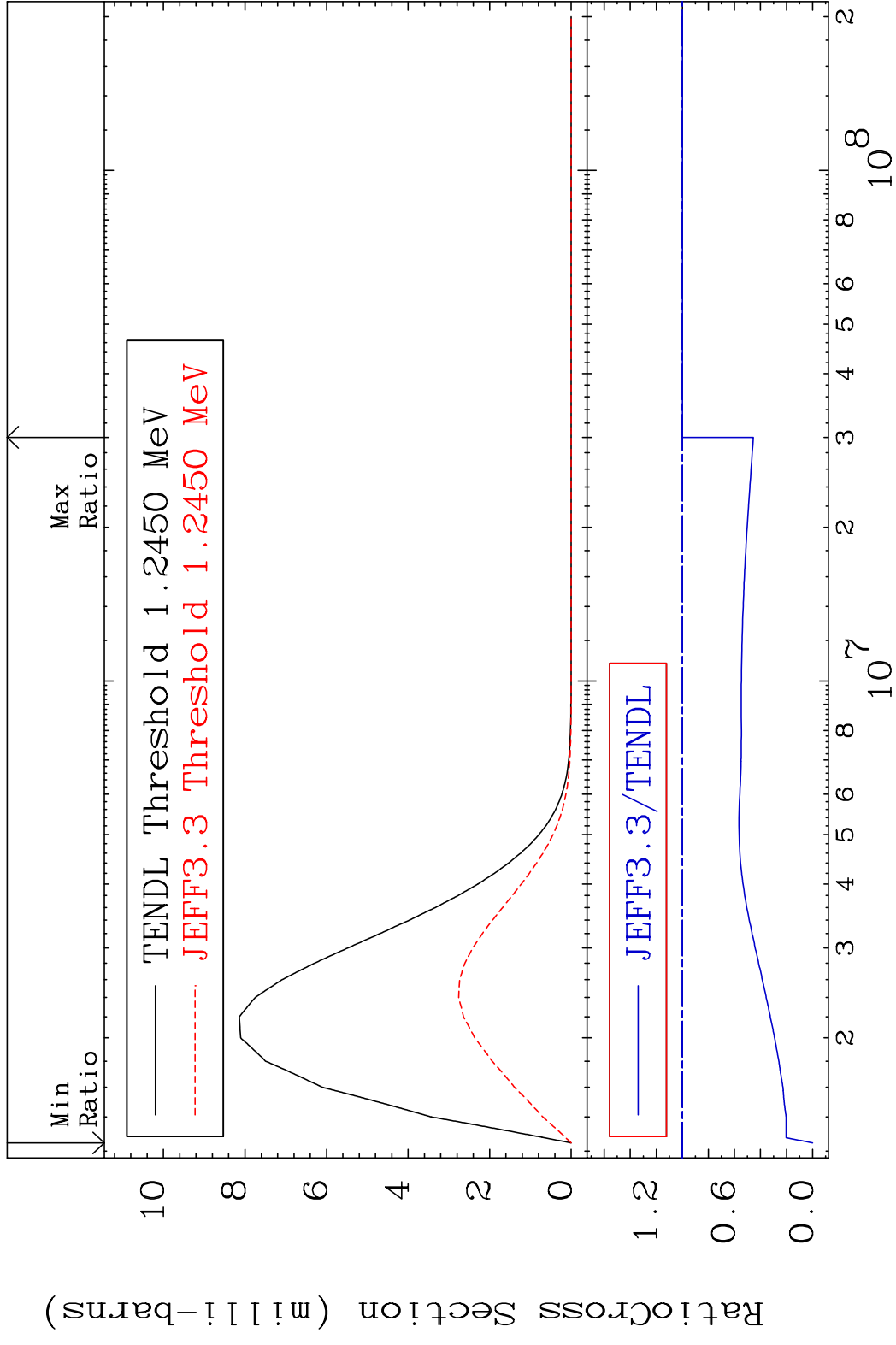


40 Incident Energy (eV) 52-Te-127m

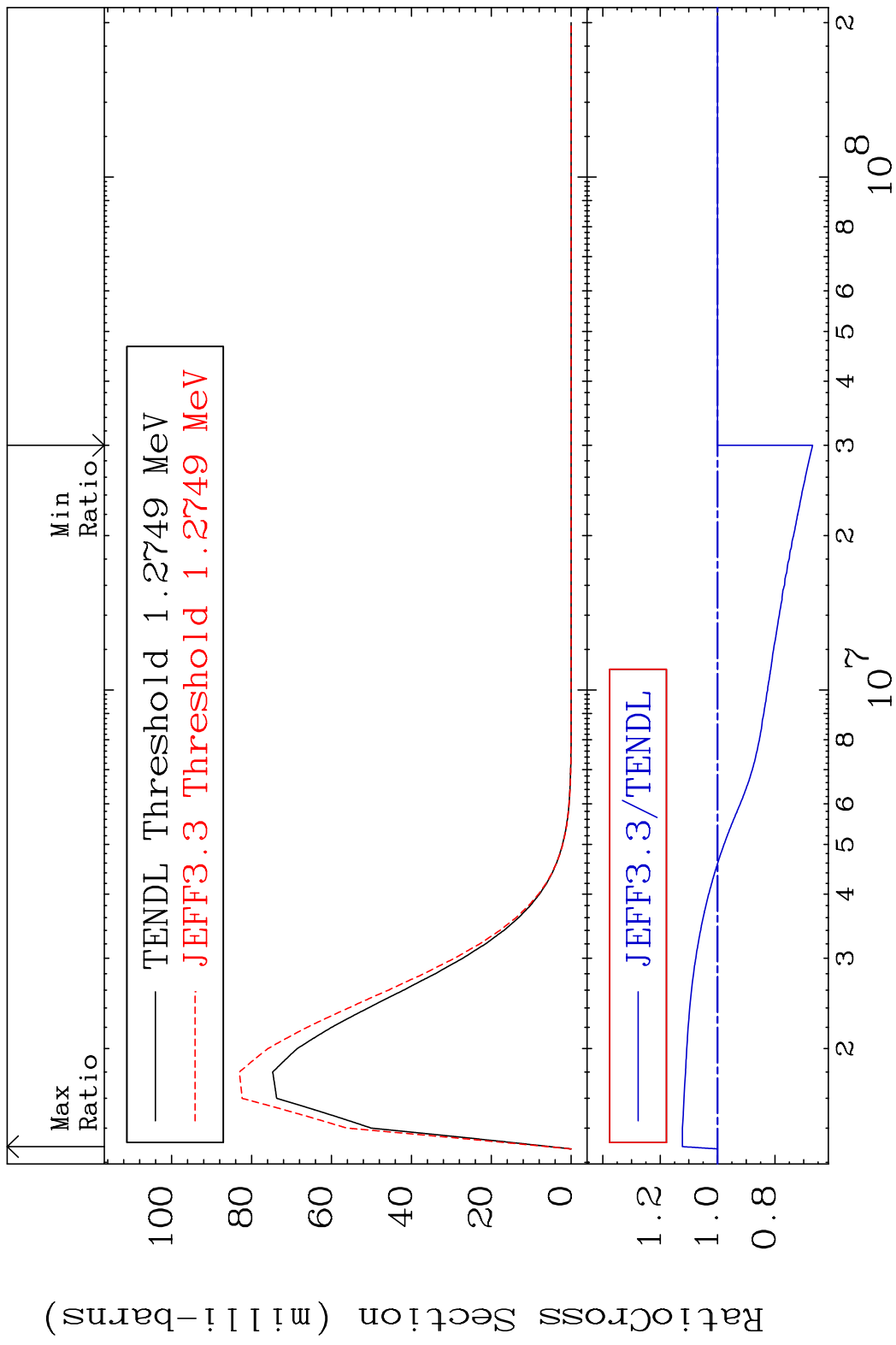
MAT 5247 MT= 74 (n,n') Level 52-Te-127m
 Cross Section -79.58 To 0.000 %



MAT 5247 MT= 75 (n,n') Level 52-Te-127m
 Cross Section -100.0 To 0.000 %



MAT 5247 MT= 76 (n,n') Level 52-Te-127m
 Cross Section -33.07 To 12.27 %

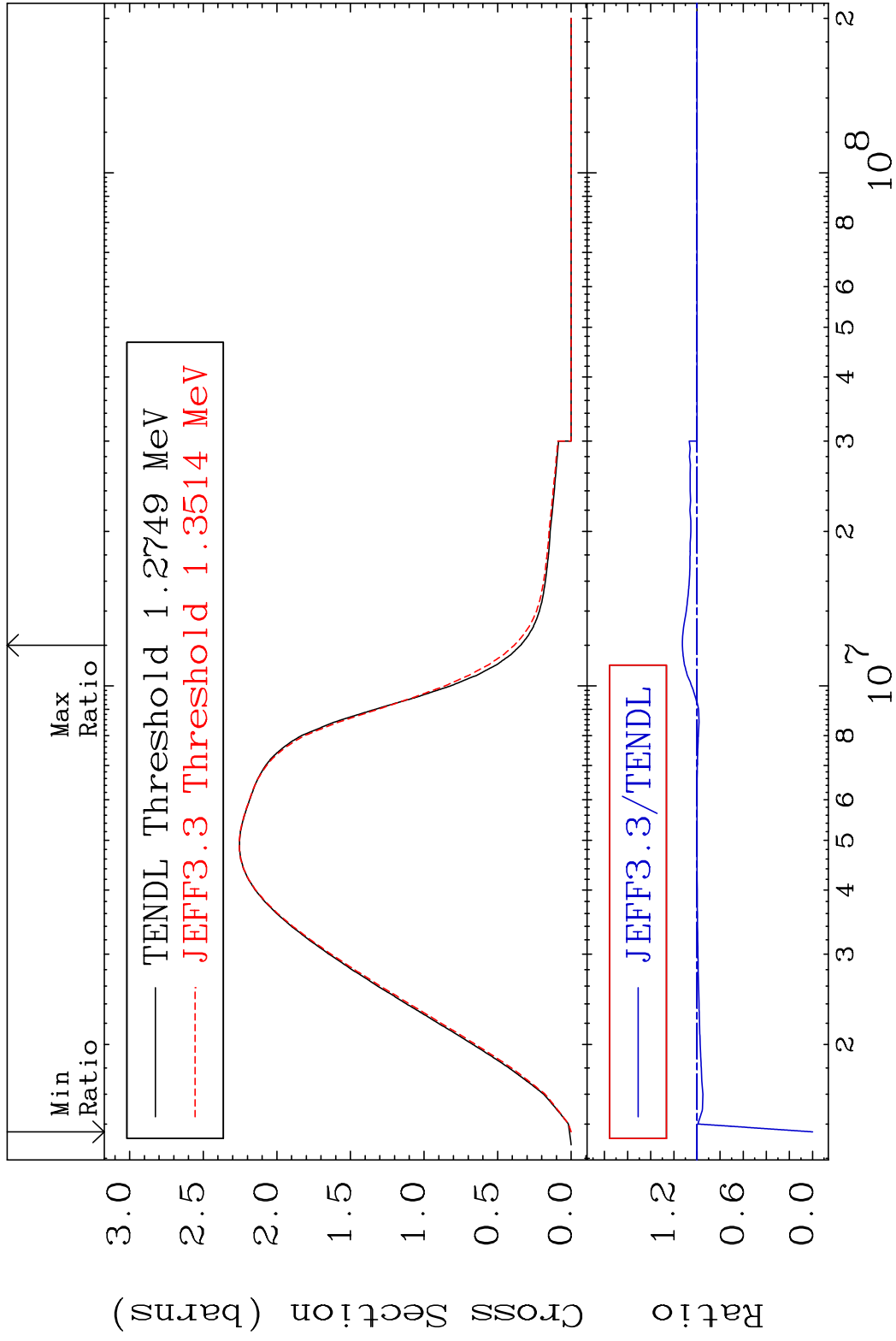


MAT 5247

(n, n') Continuum

52-Te-127m

Cross Section -100.0 To 12.65 %

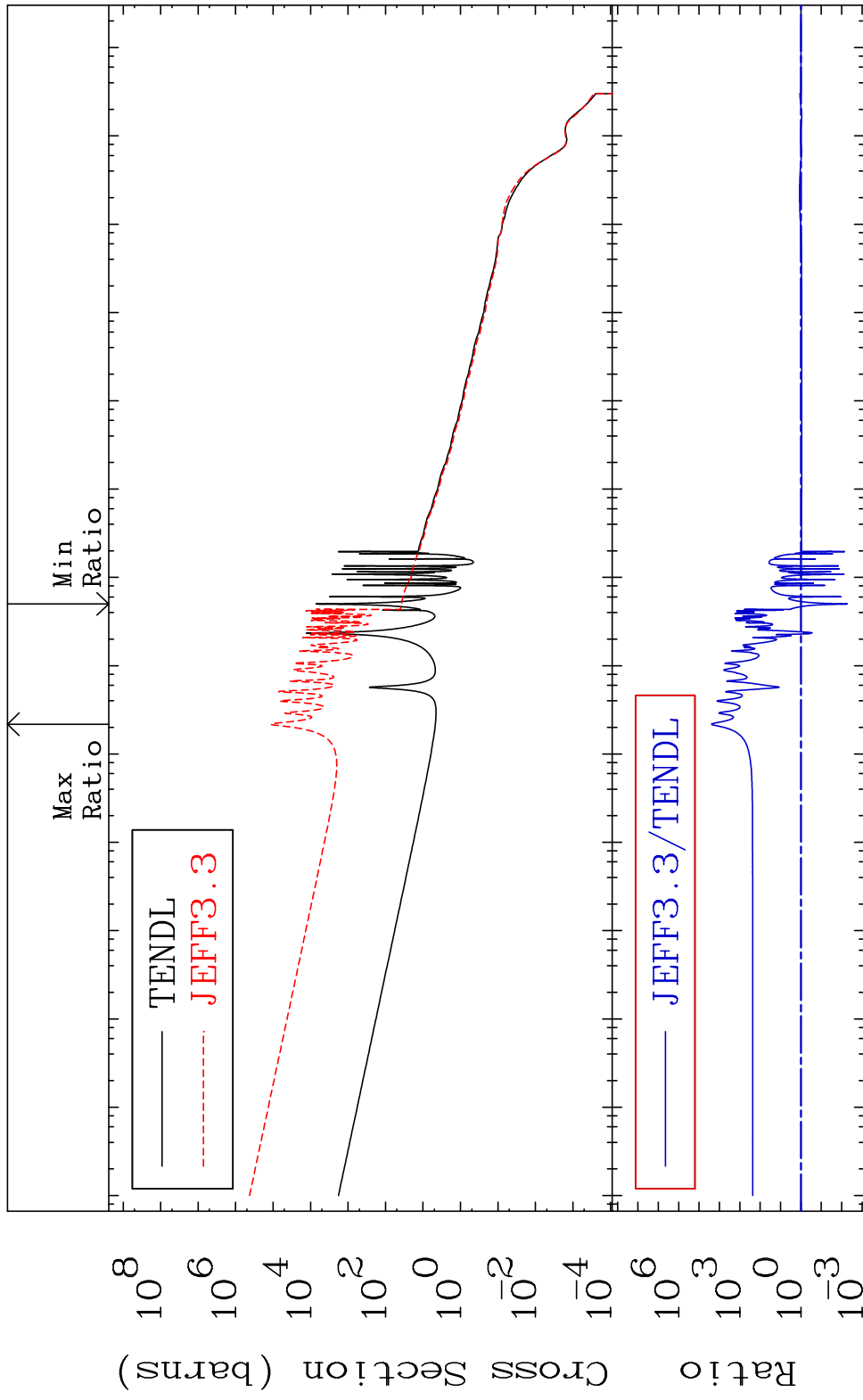


MAT 5247

(n, γ)

52-Te-127m

Cross Section -99.47 To 9999. %



45

Incident Energy (eV)

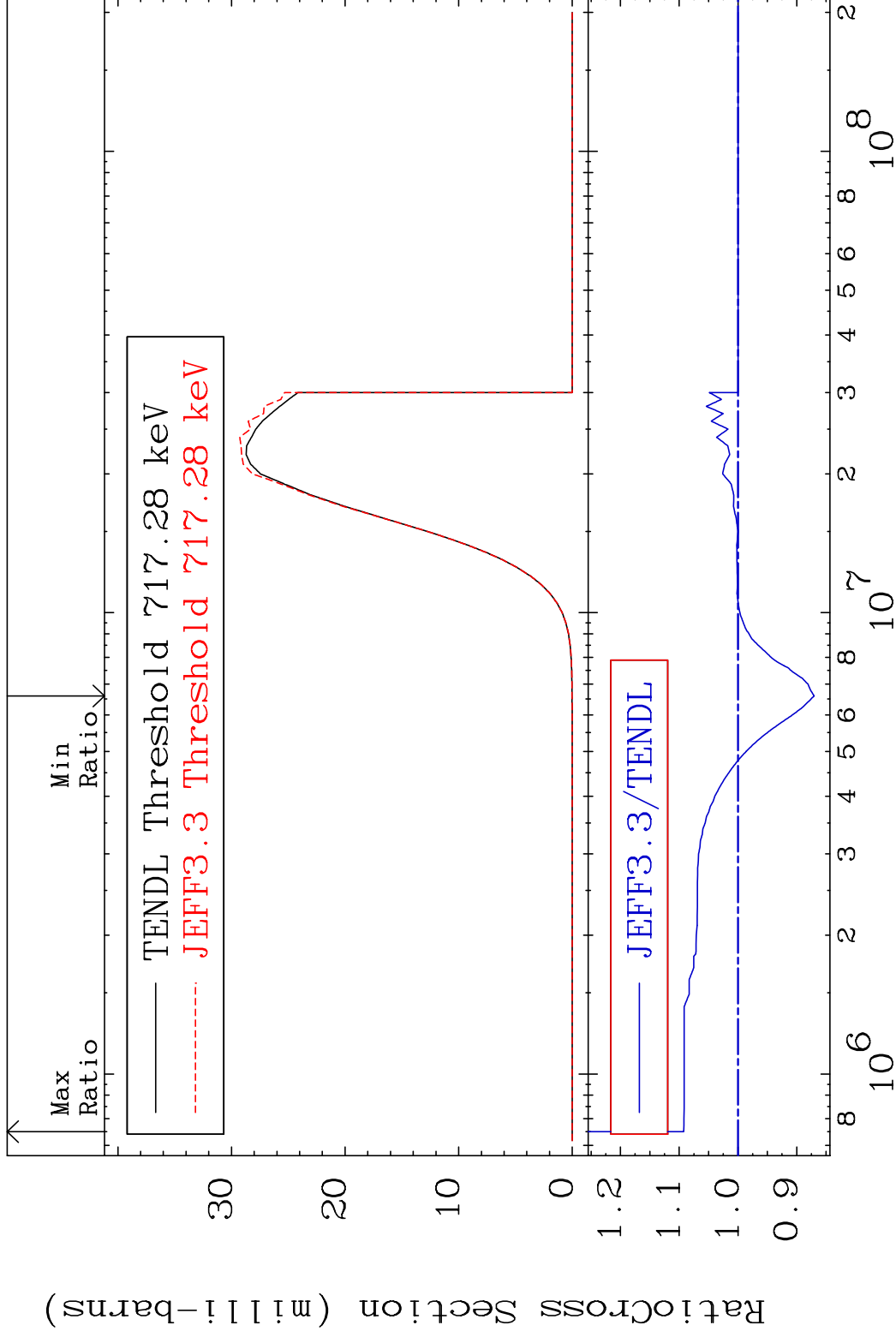
52-Te-127m

MAT 5247

(n, p)

52-Te-127m

Cross Section -12.96 To 9.243 %



46

Incident Energy (eV)

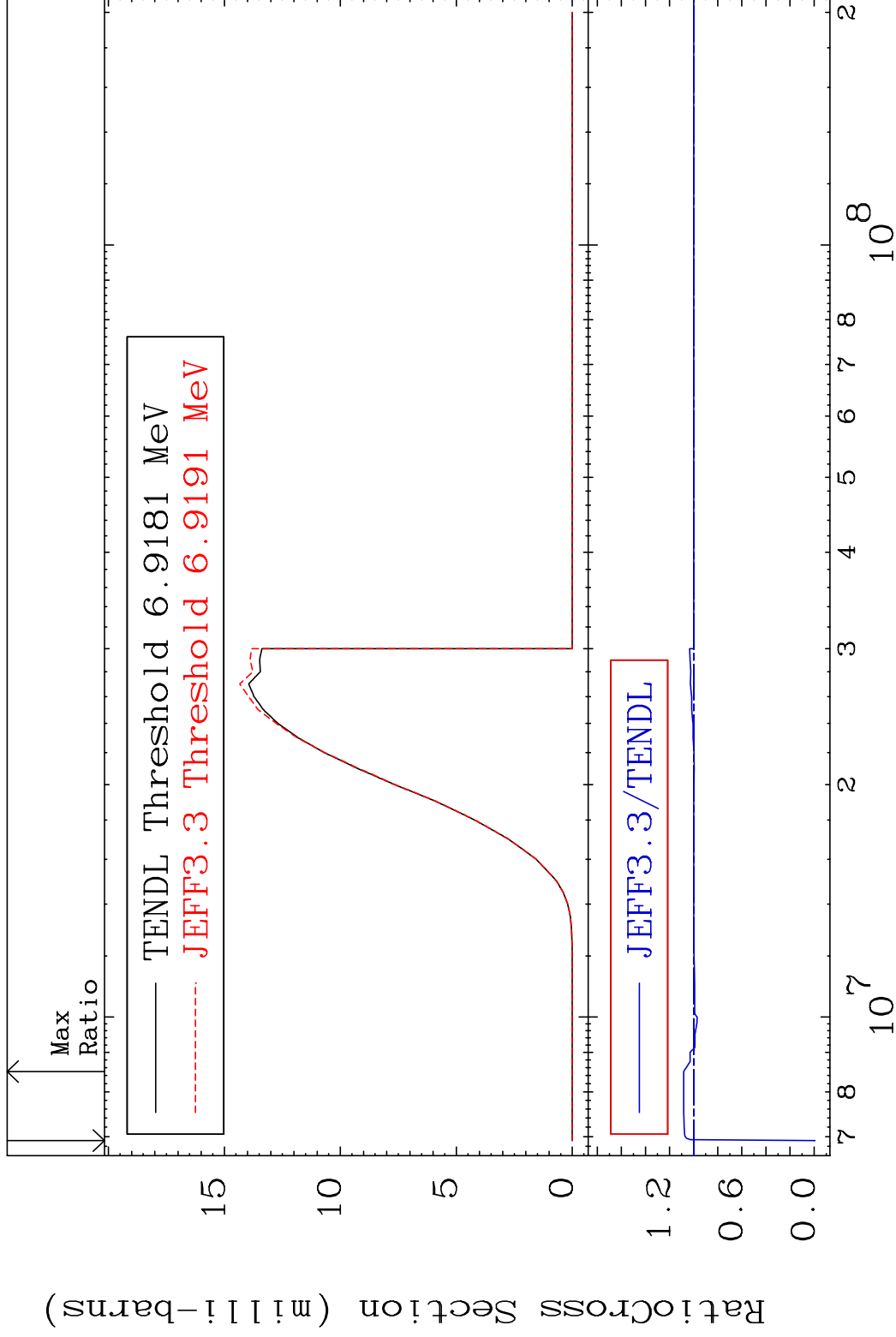
52-Te-127m

MAT 5247

(n, d)

52-Te-127m

Cross Section -100.0 To 8.292 %



47

Incident Energy (eV)

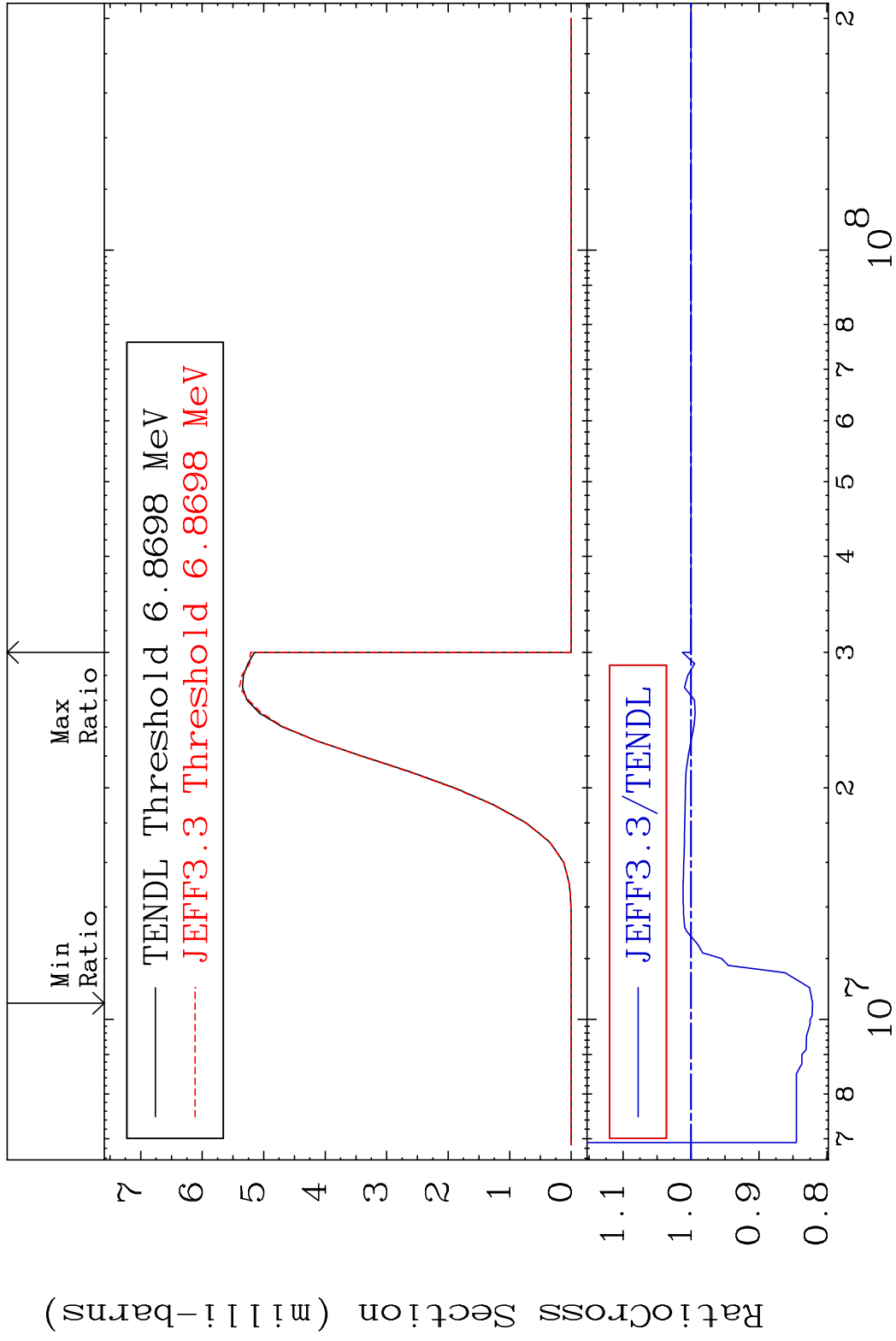
52-Te-127m

MAT 5247

(n, t)

52-Te-127m

Cross Section -17.88 To 1.273 %



48

Incident Energy (eV)

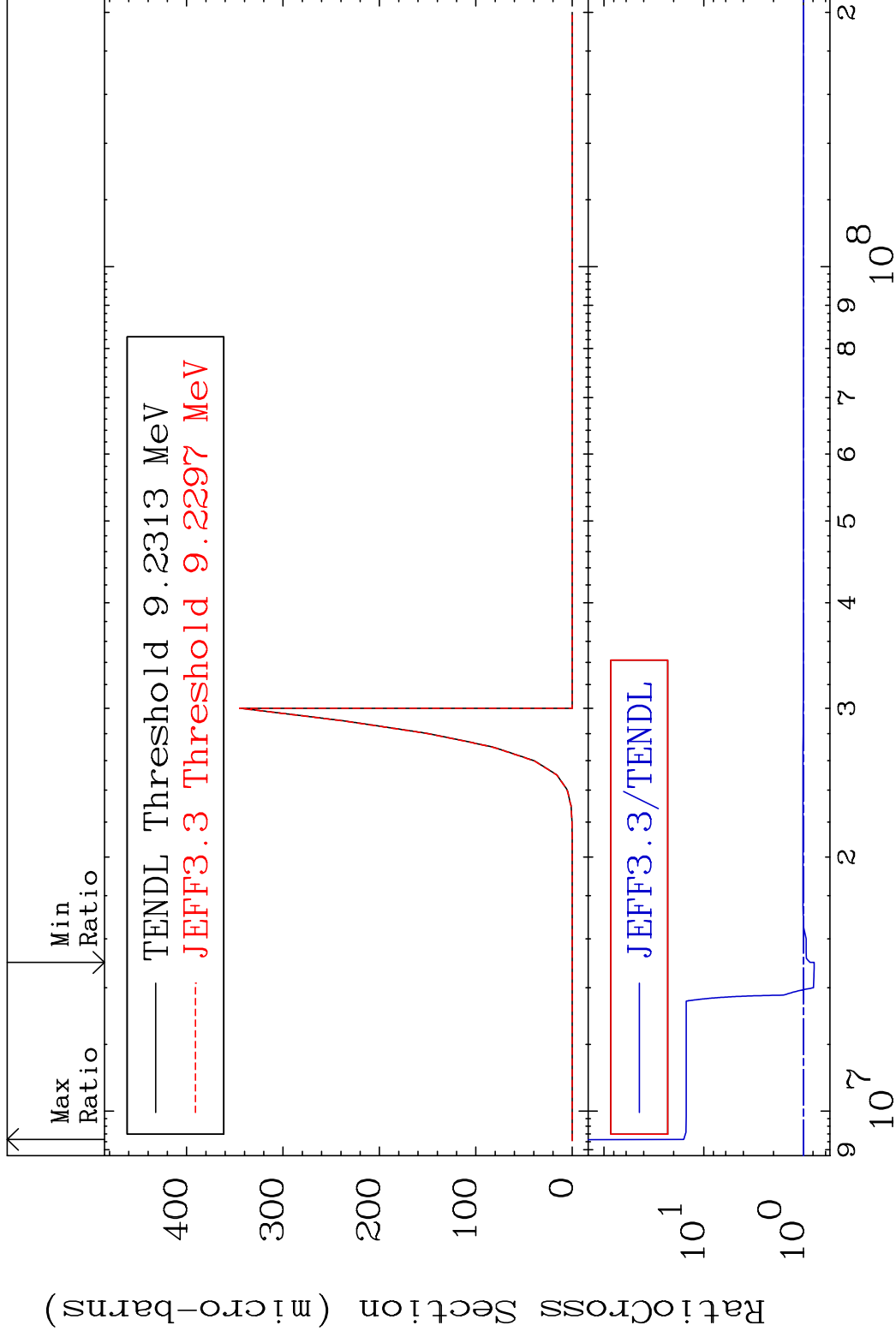
52-Te-127m

MAT 5247

(n, He-3)

52-Te-127m

Cross Section -21.93 To 1490. %



49

Incident Energy (eV)

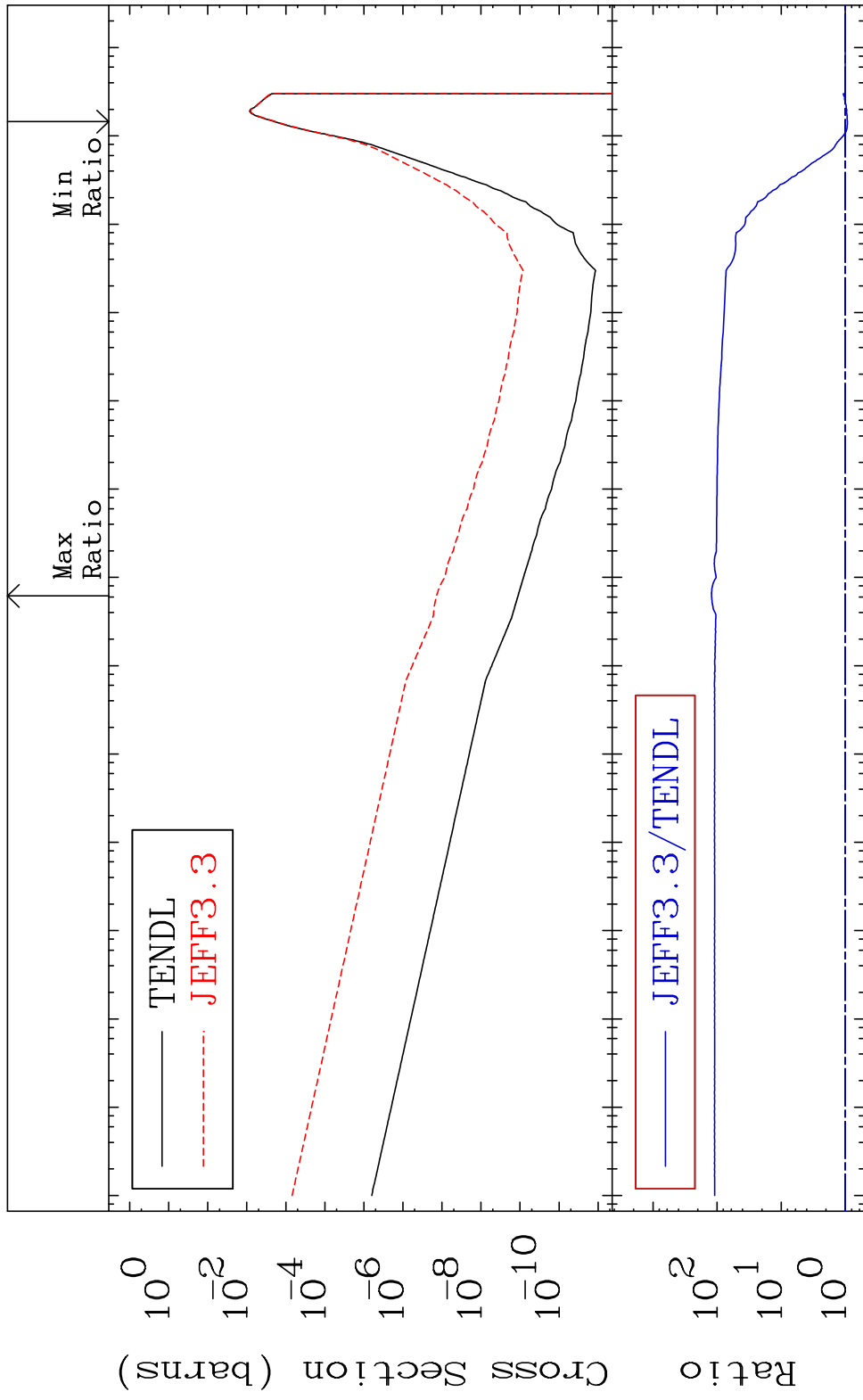
52-Te-127m

MAT 5247

(n, α)

52-Te-127m

Cross Section -6.926 To 9999. %



50

Incident Energy (eV)

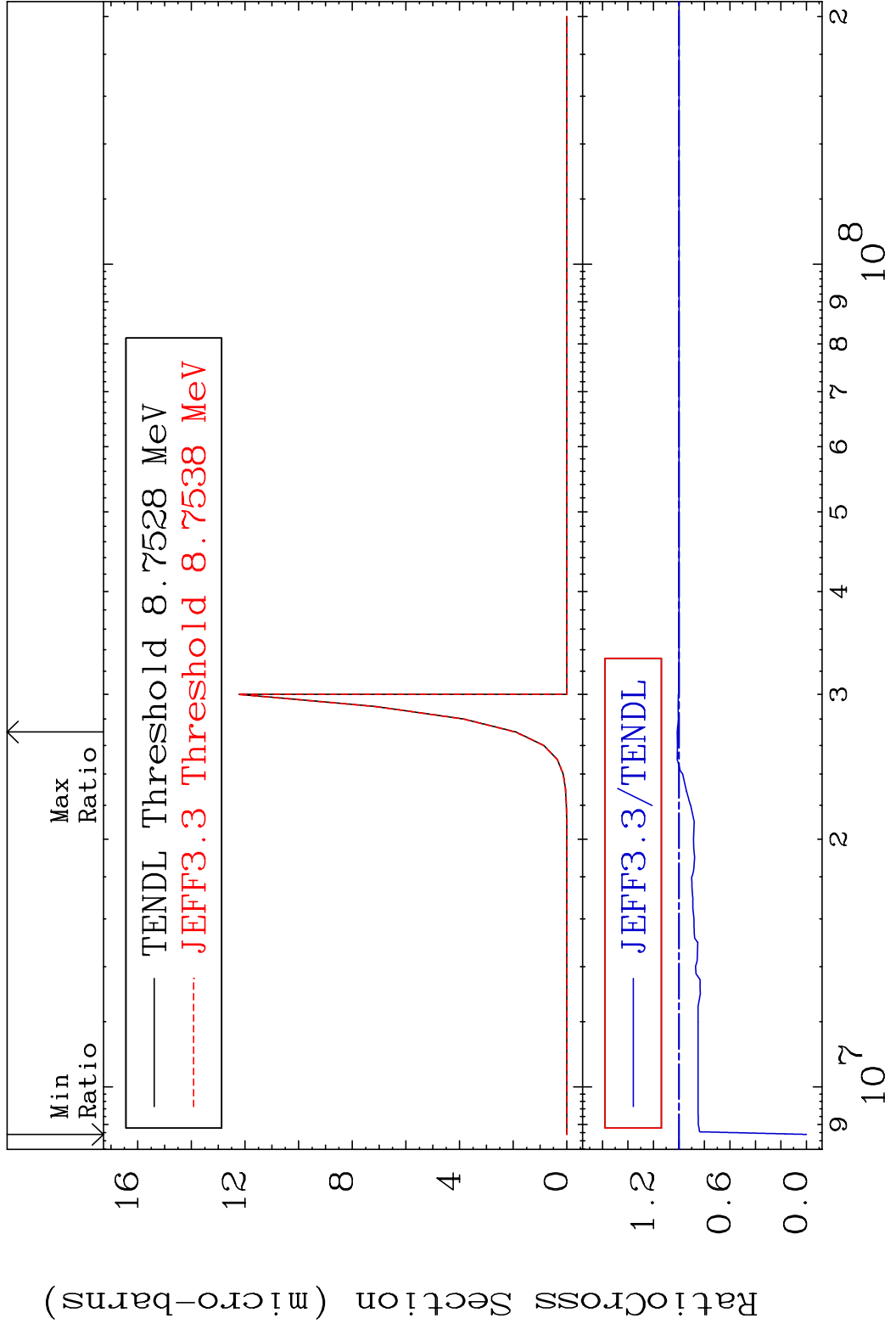
52-Te-127m

MAT 5247

(n,2p)

52-Te-127m

Cross Section -100.0 To 1.379 %



51

Incident Energy (eV)

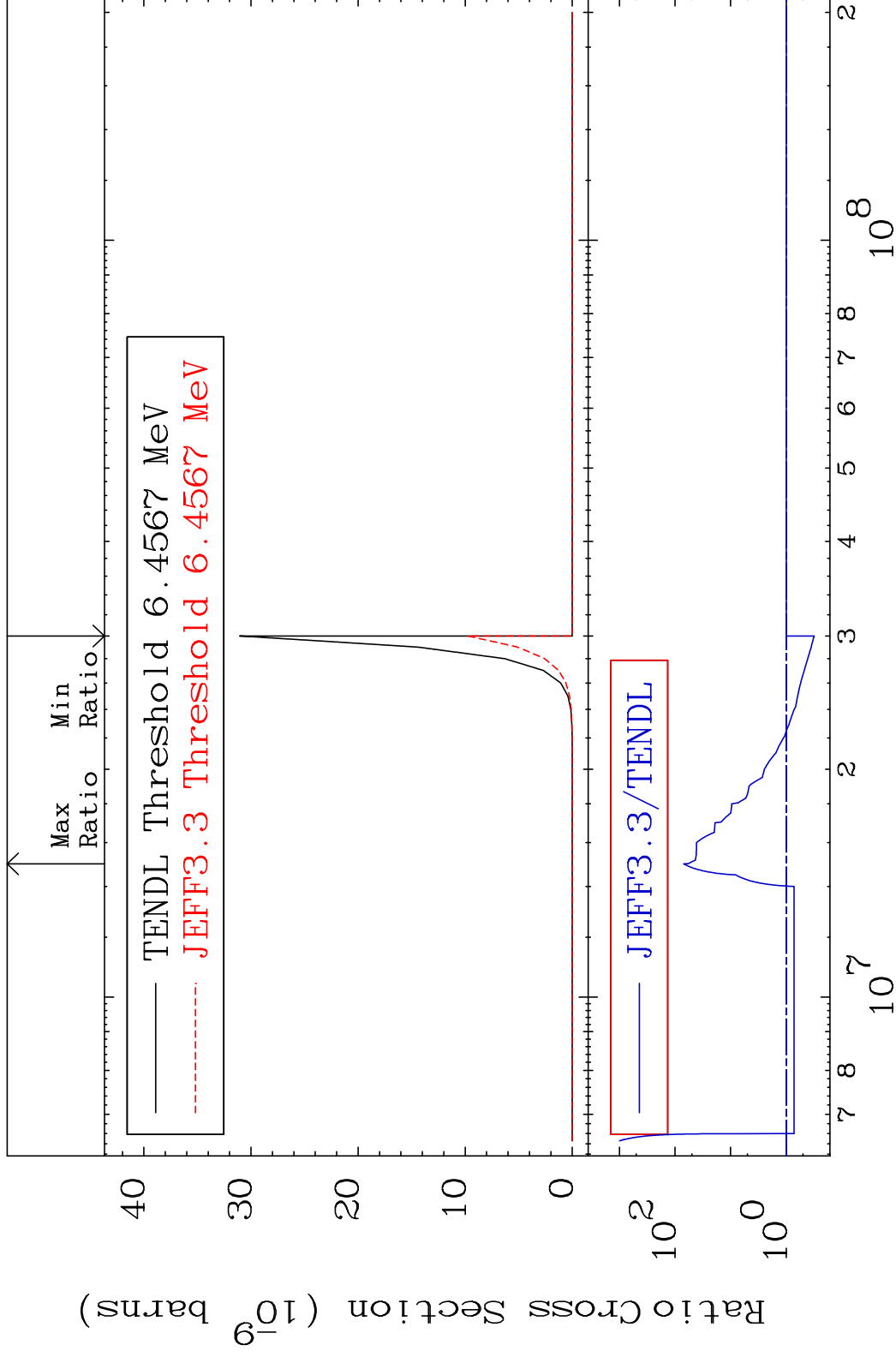
52-Te-127m

MAT 5247

(n,p) α

52-Te-127m

Cross Section -68.60 To 6913. %



52

Incident Energy (eV)

52-Te-127m

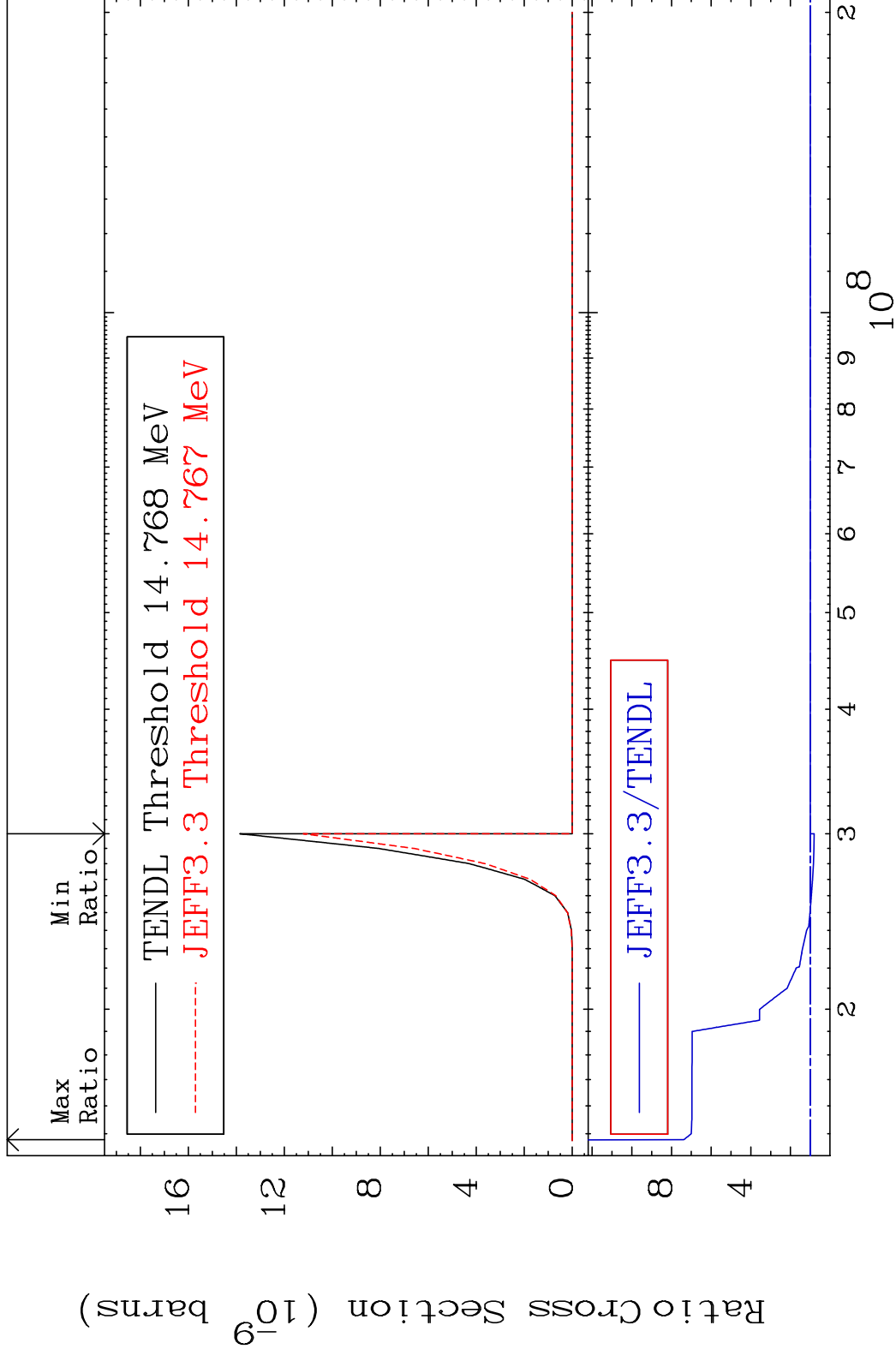
MAT 5247

(n,p) d

52-Te-127m

Cross Section

-19.13 To 638.6 %

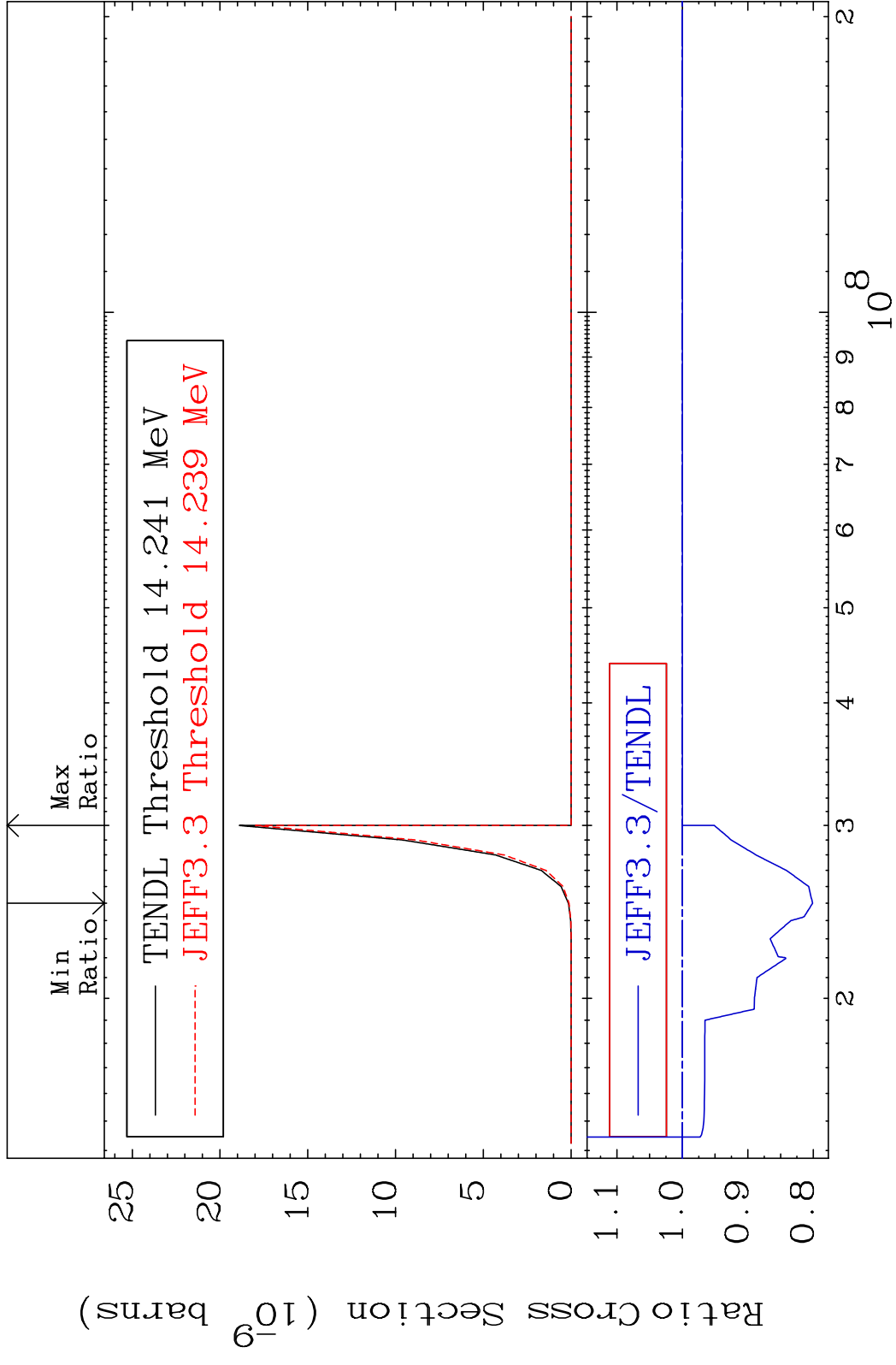


53

Incident Energy (eV)

52-Te-127m

MAT 5247 (n,p) t 52-Te-127m
 Cross Section -19.88 To 0.000 %

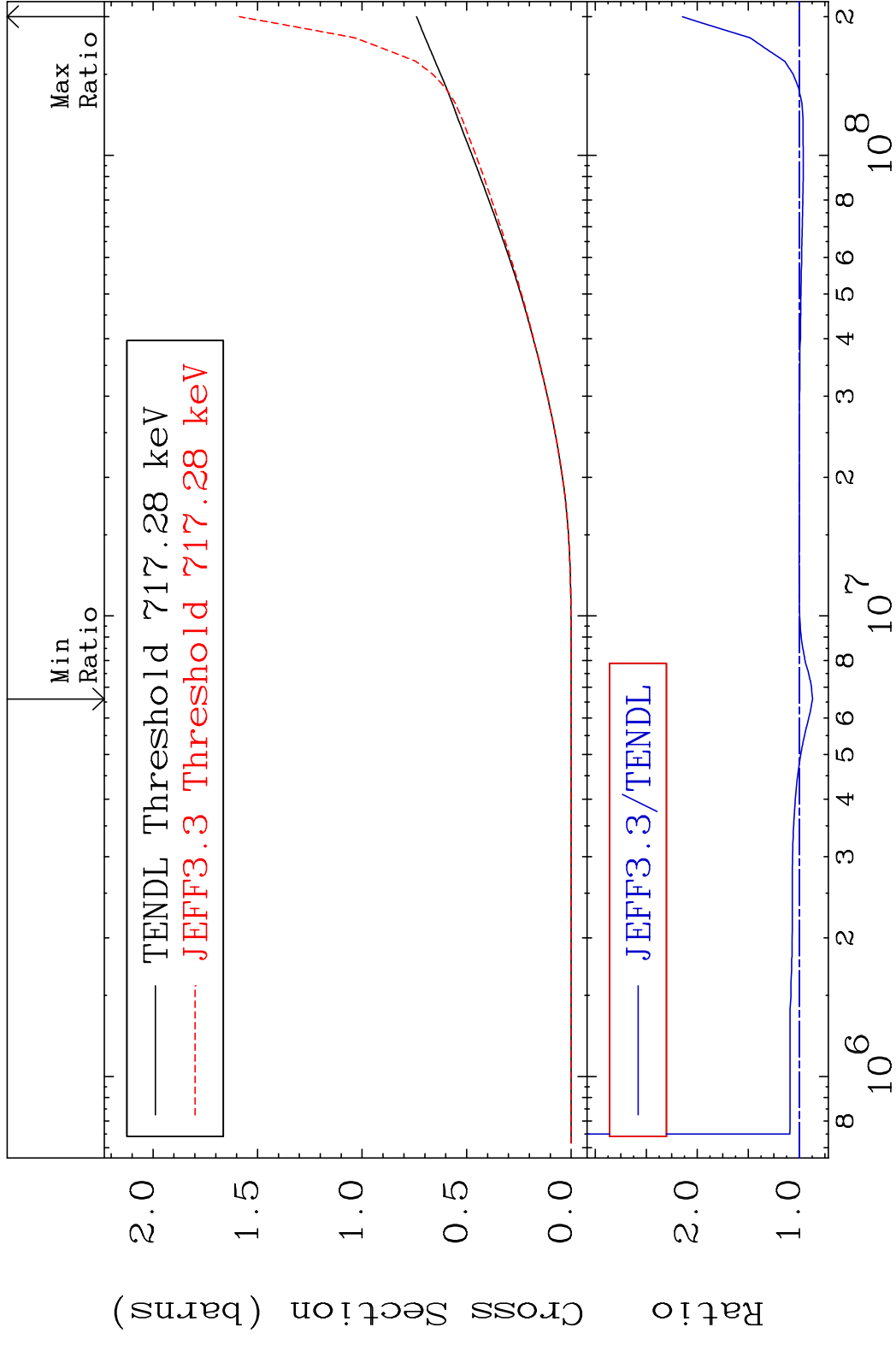


MAT 5247

Hydrogen Production

52-Te-127m

Cross Section -12.96 To 114.6 %

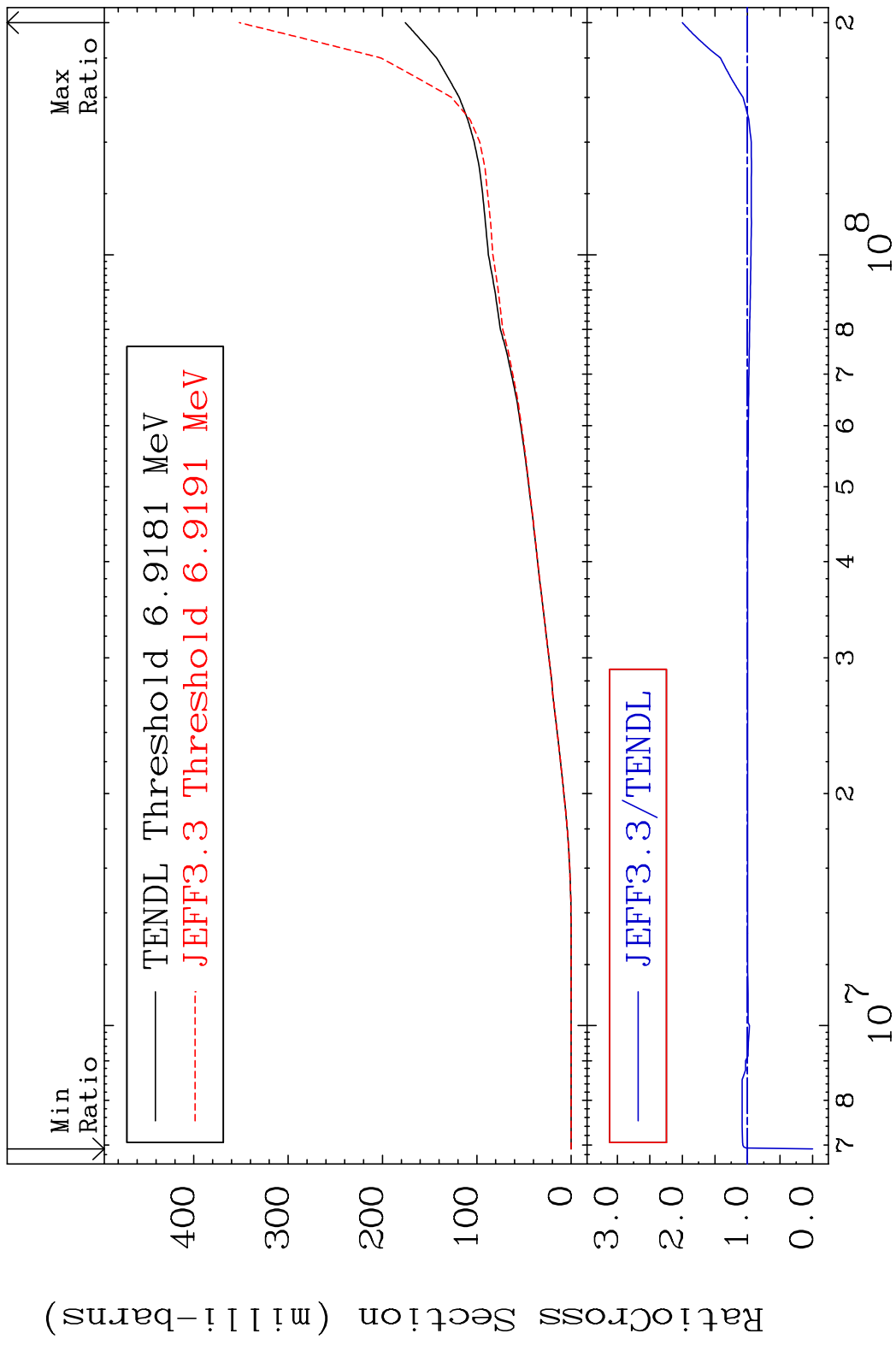


55

Incident Energy (eV)

52-Te-127m

MAT 5247 Deuterium Production 52-Te-127m
 Cross Section -100.0 To 100.1 %



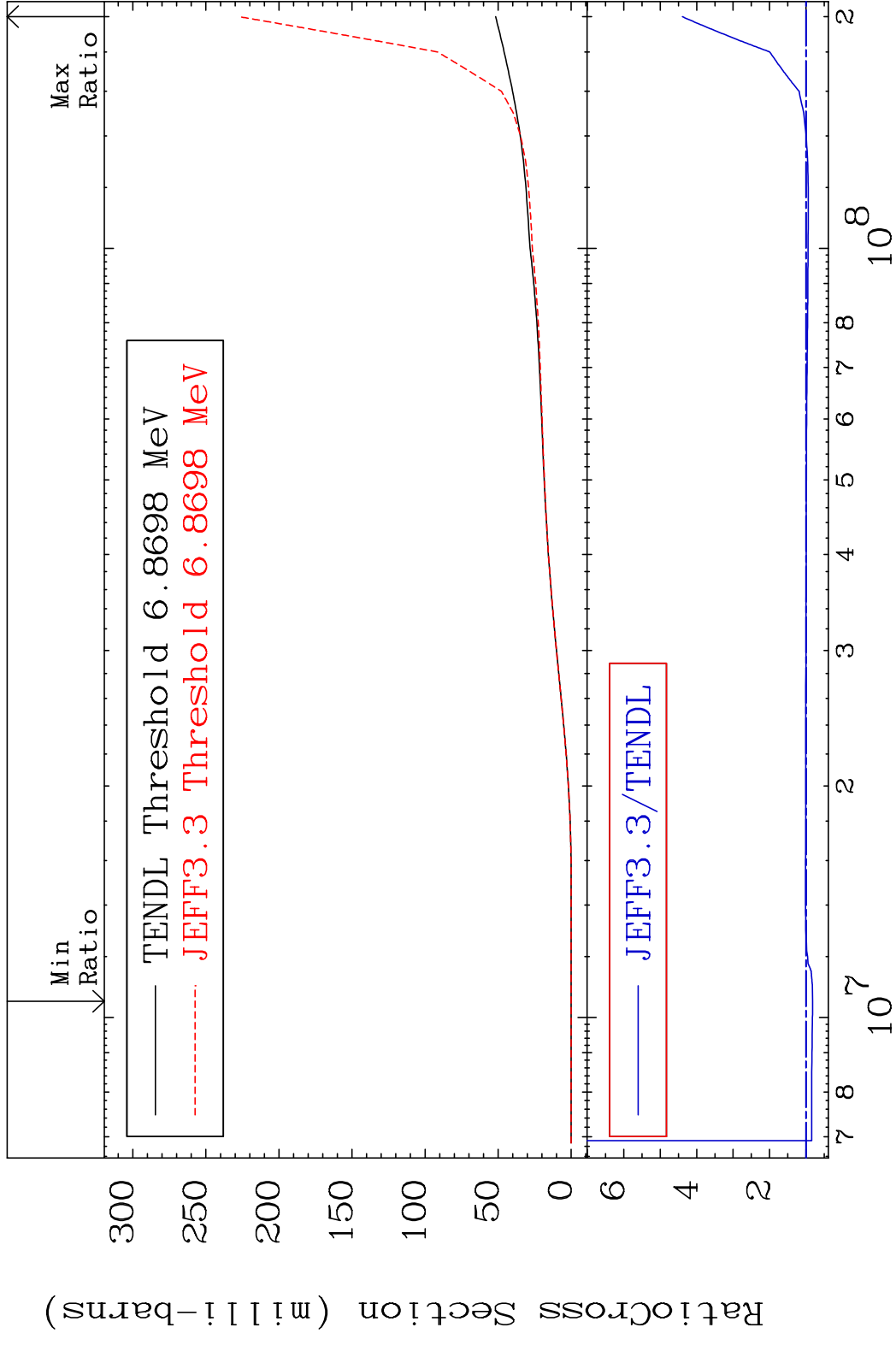
MAT 5247

Tritium Production

52-Te-127m

Cross Section -17.88

To 339.3 %

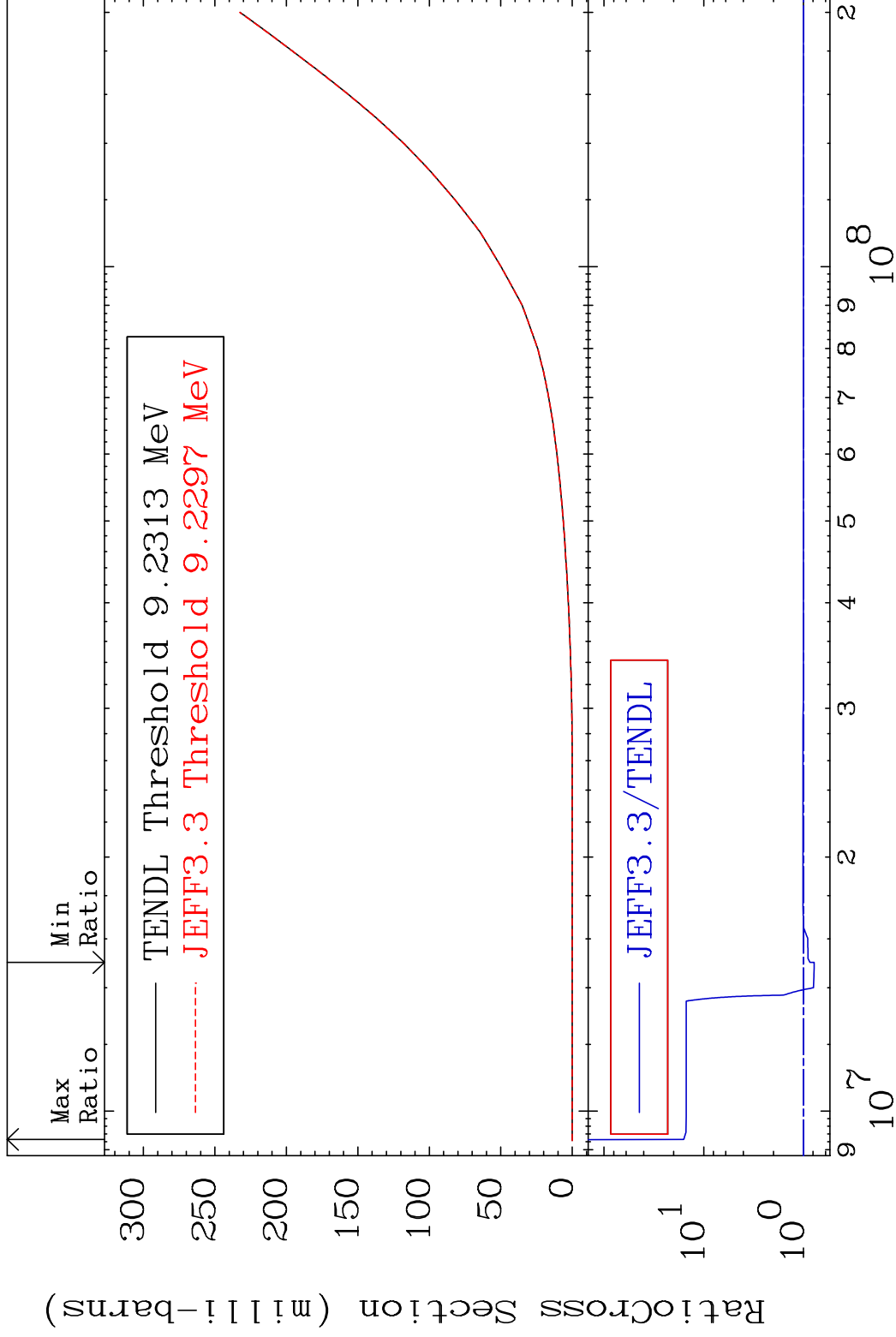


MAT 5247

He-3 Production

52-Te-127m

Cross Section -21.93 To 1490. %



58

Incident Energy (eV)

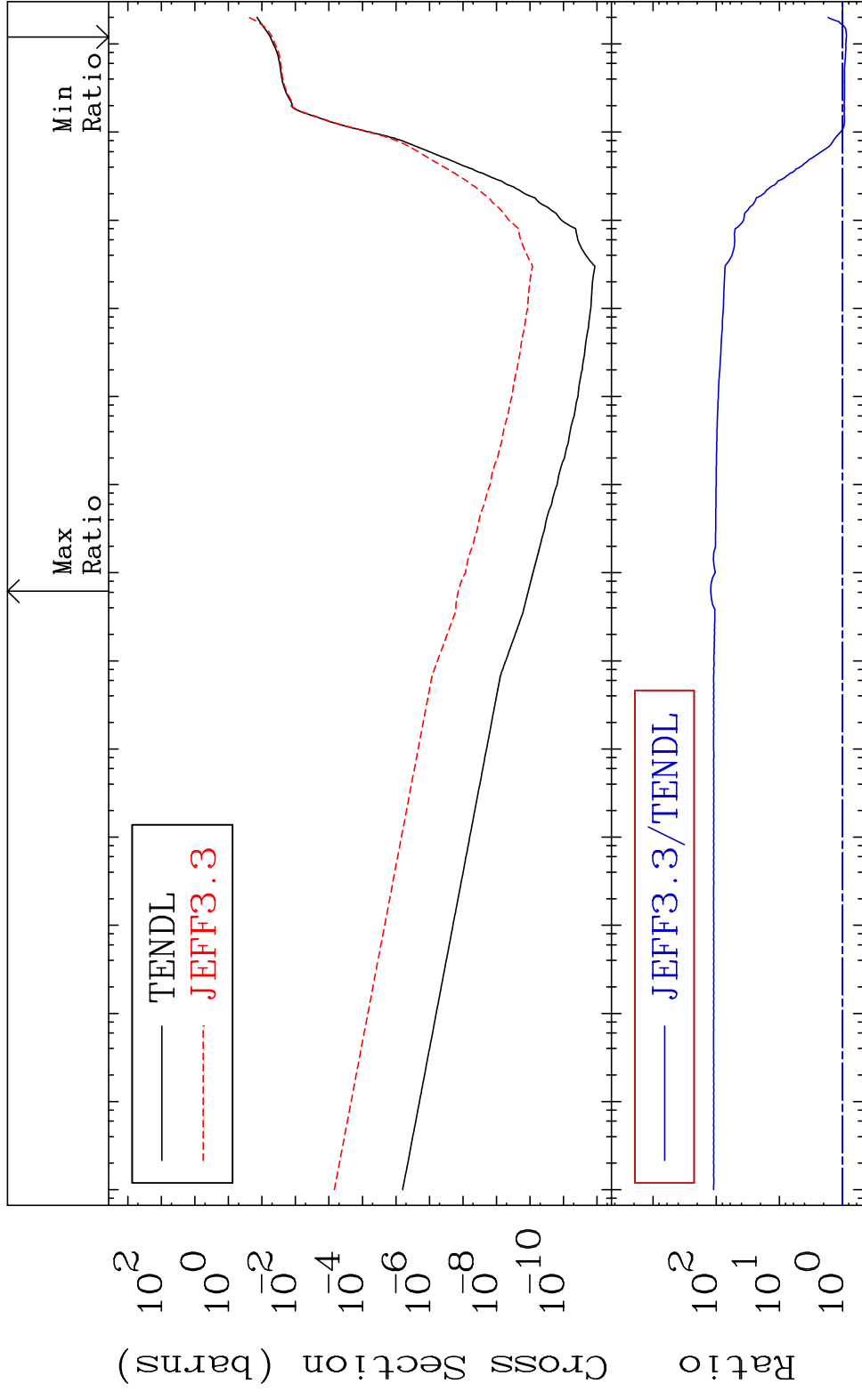
52-Te-127m

MAT 5247

He-4 Production

52-Te-127m

Cross Section -12.49 To 9999. %

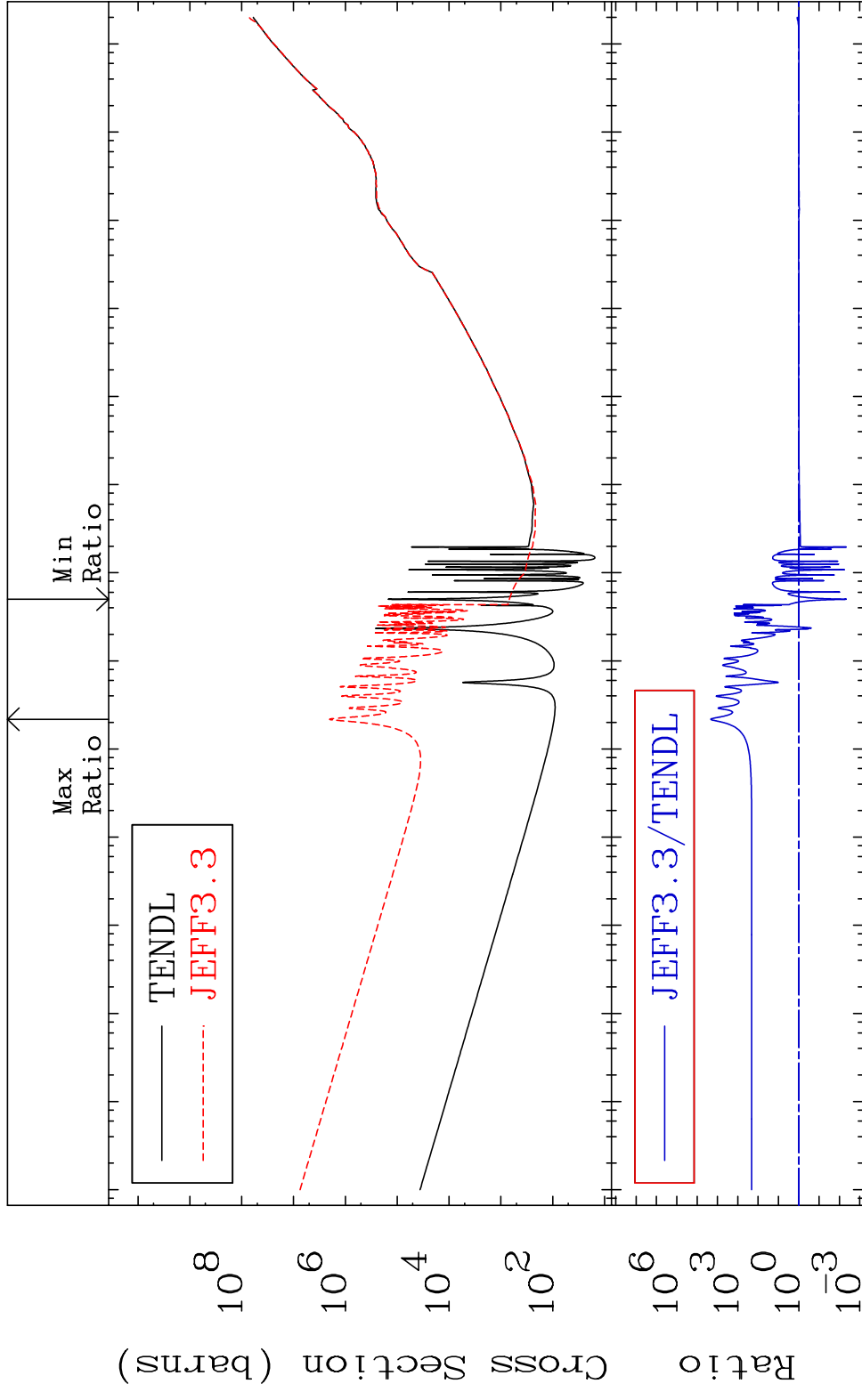


59

Incident Energy (eV)

52-Te-127m

MAT 5247 Kerma total (eV-barns) 52-Te-127m
 Cross Section -99.54 To 9999. %

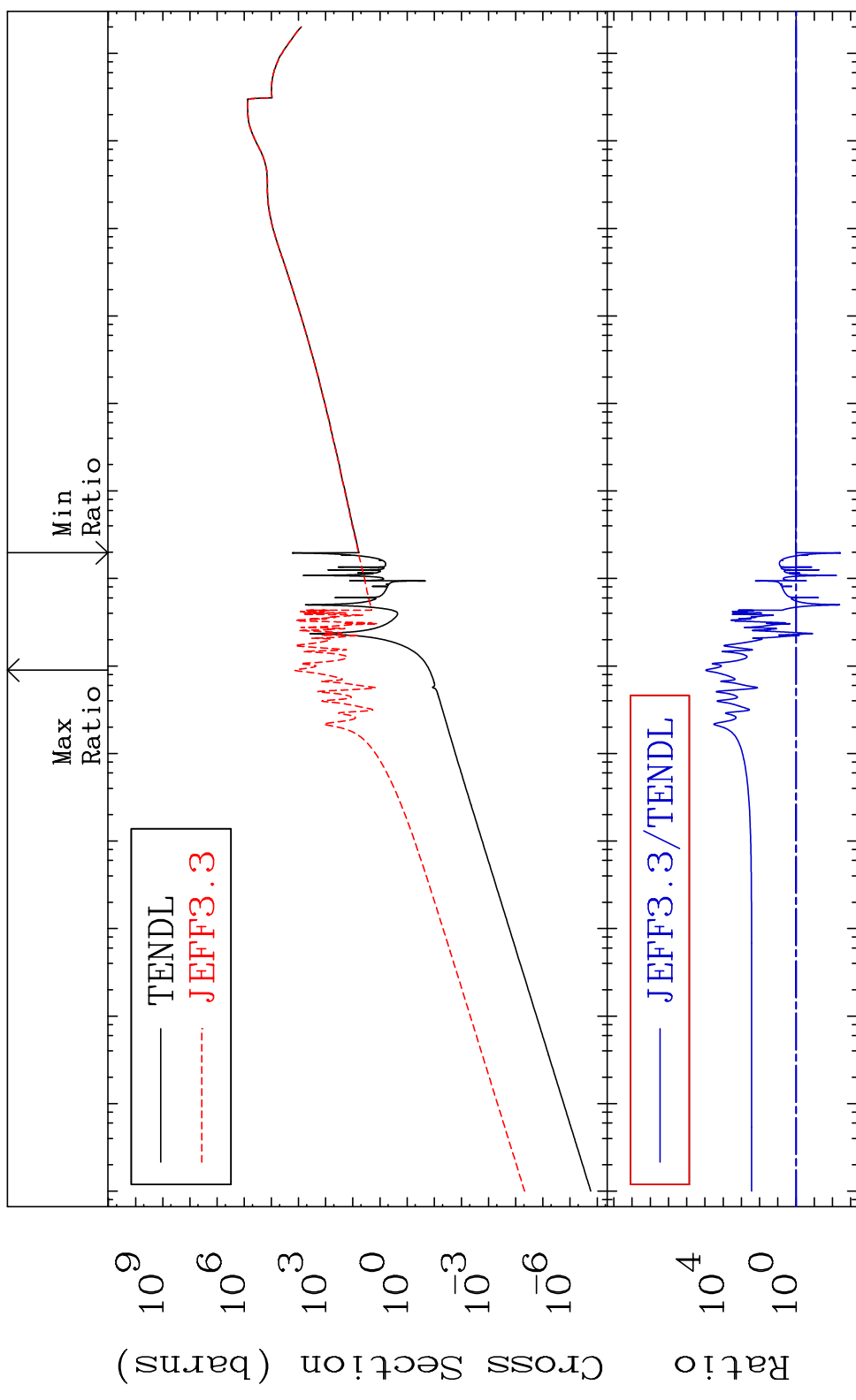


Ratio
 10⁶
 10³
 10⁰
 10⁻³

60 Incident Energy (eV) 52-Te-127m

MAT 5247

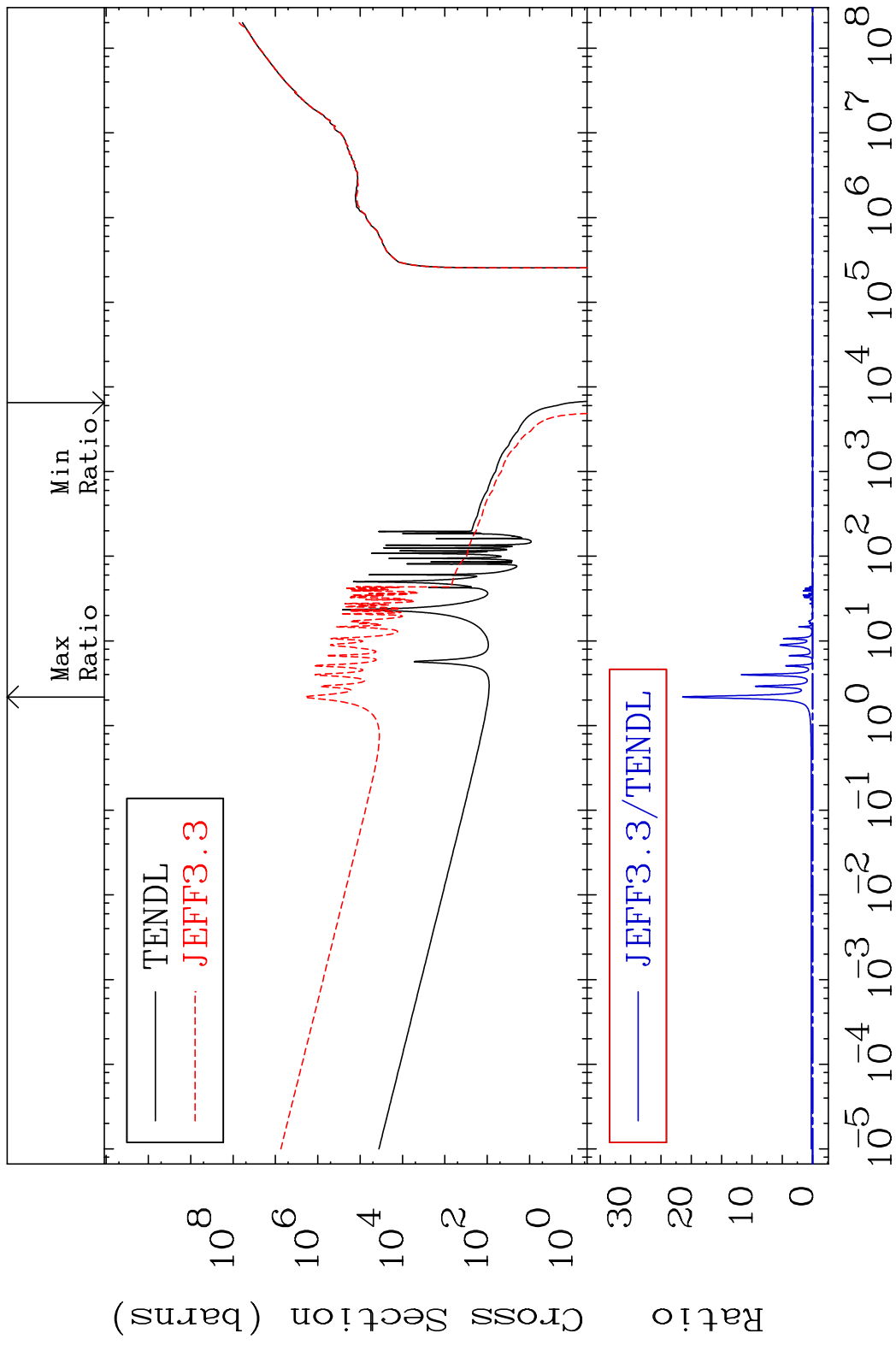
Kerma elastic Cross Section -99.63 To 9999. %
52-Te-127m



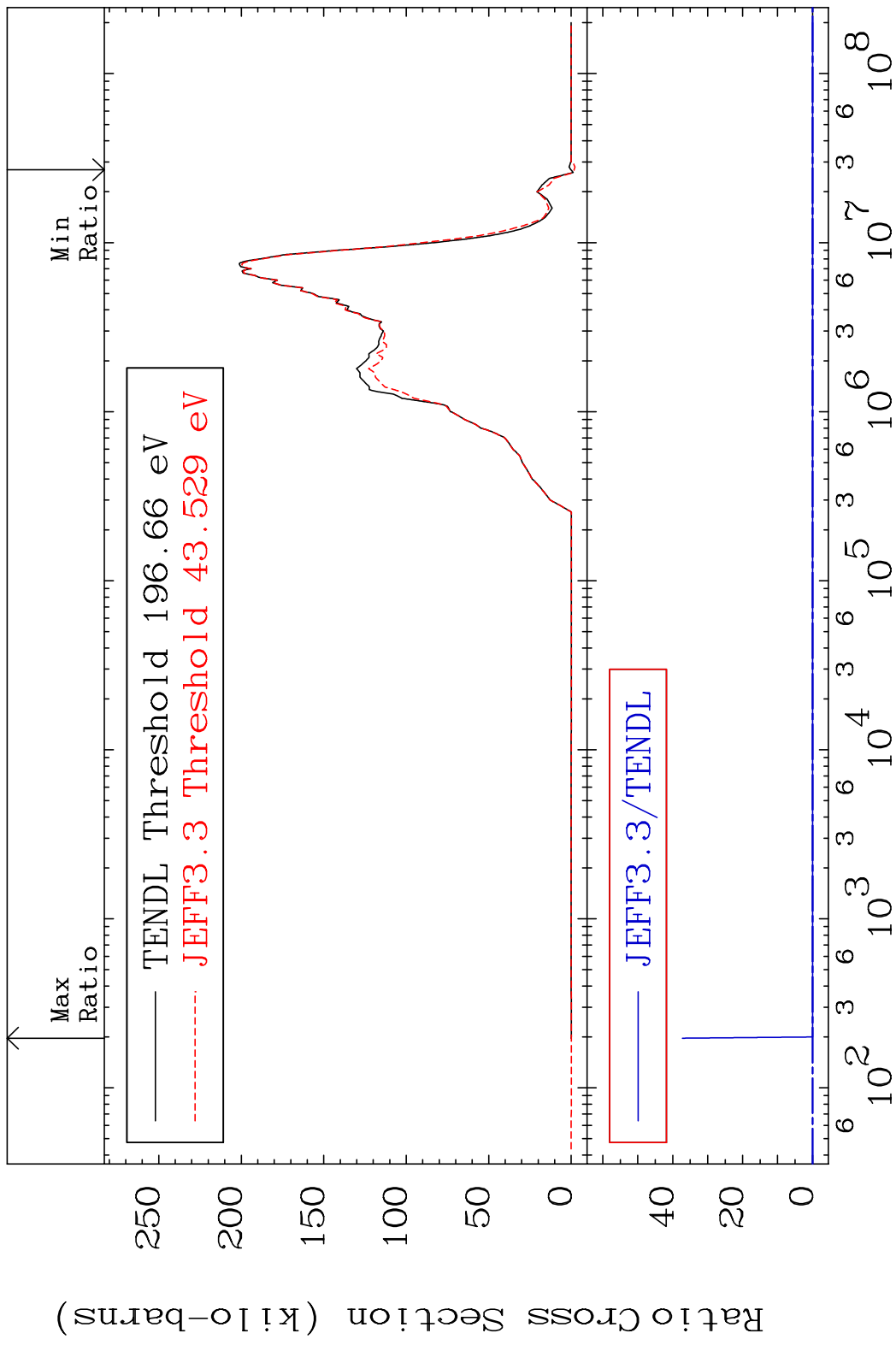
10⁹
10⁶
10³
10⁰
10⁻³
10⁻⁶
Cross Section (barns)

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

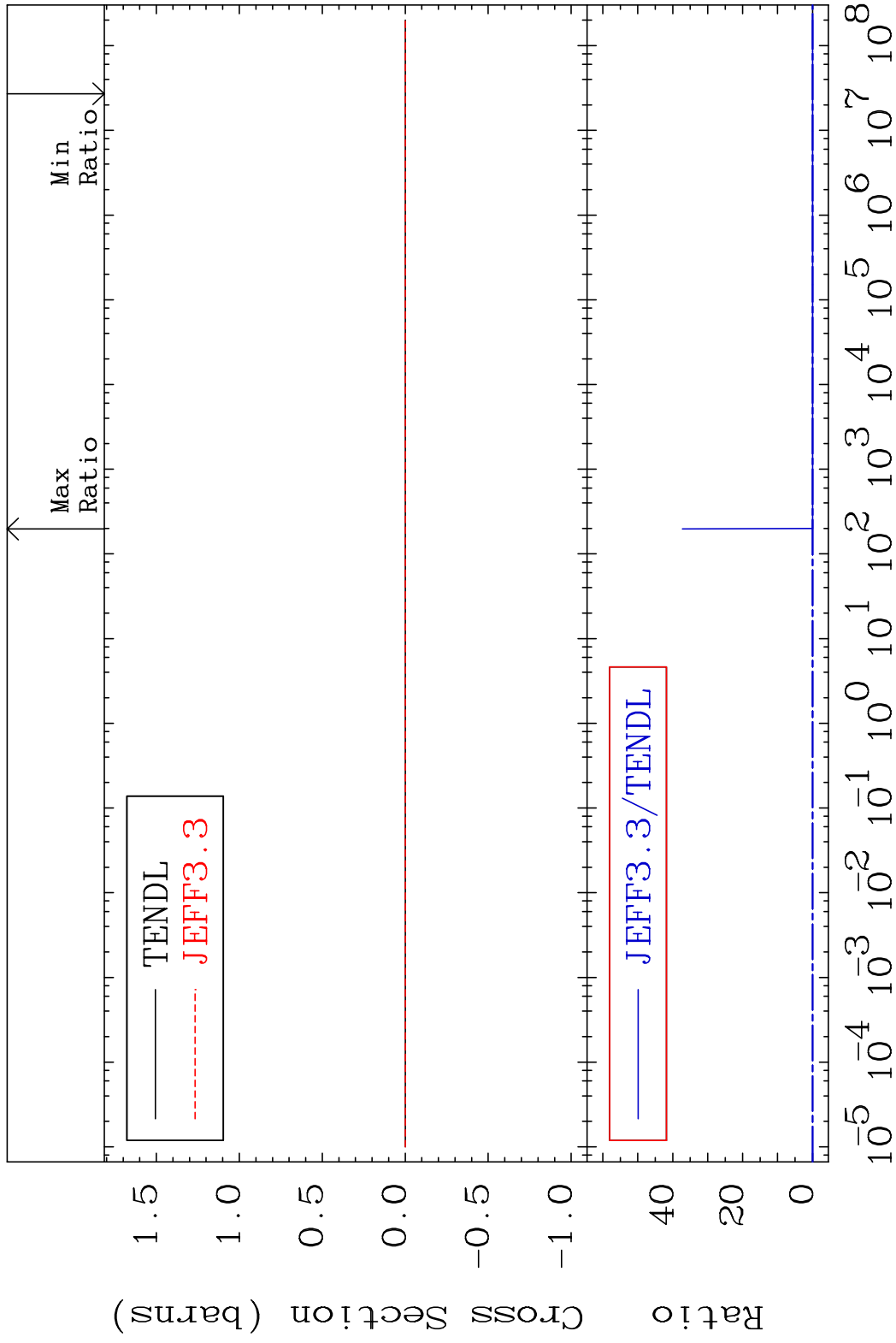
MAT 5247 Kerma non-elastic (all but mt2) 52-Te-127m
 Cross Section -704.8 To 9999. %



MAT 5247 Kerma inelastic (mt51-91) 52-Te-127m
 Cross Section -1426. To 9999. %

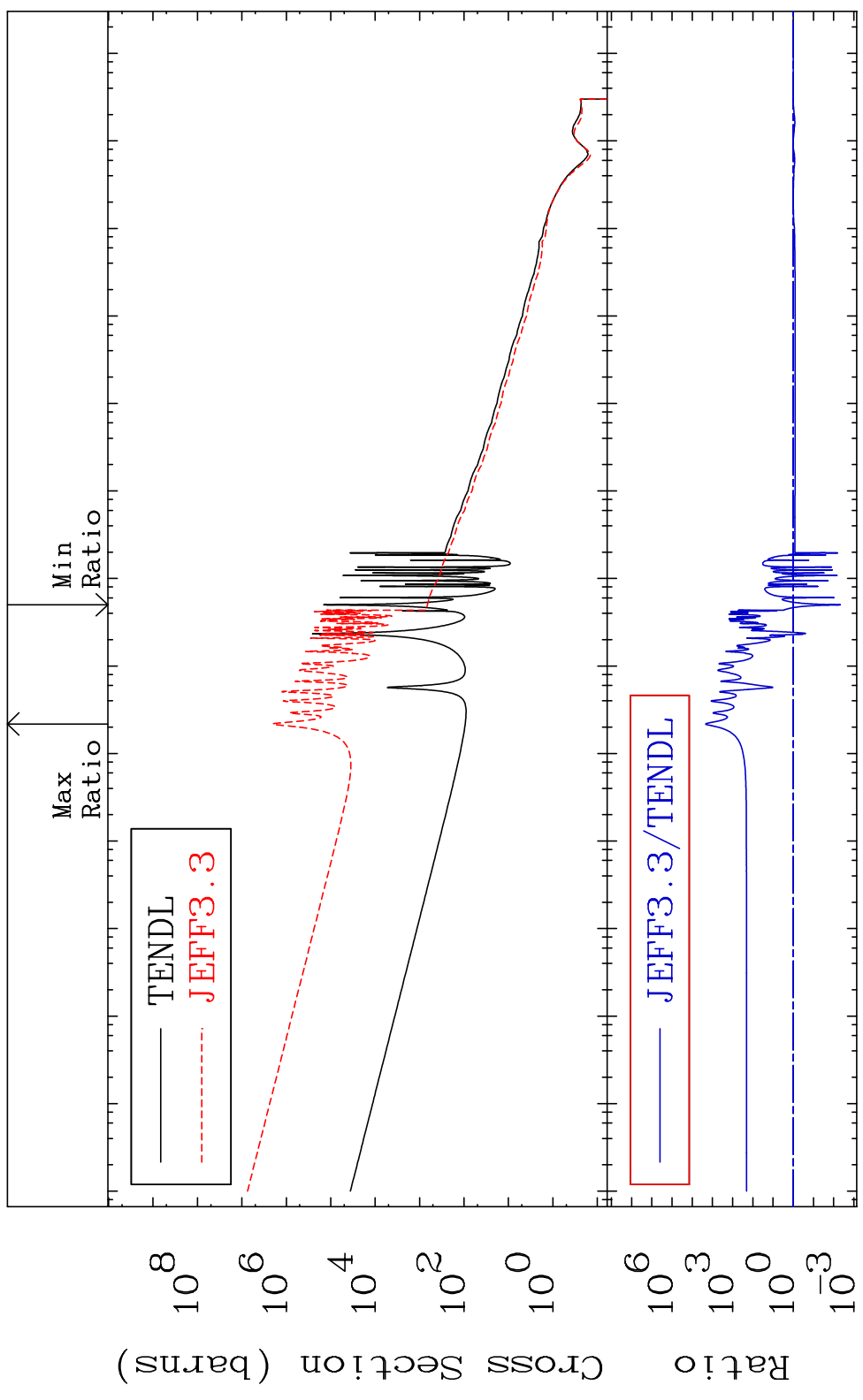


MAT 5247 Kerma fission (mt18 or mt19-20-21-35) - Te-127m
 Cross Section -1426. To 9999. %



MAT 5247

Kerma capture (mt102) 52-Te-127m
Cross Section -99.54 To 9999. %



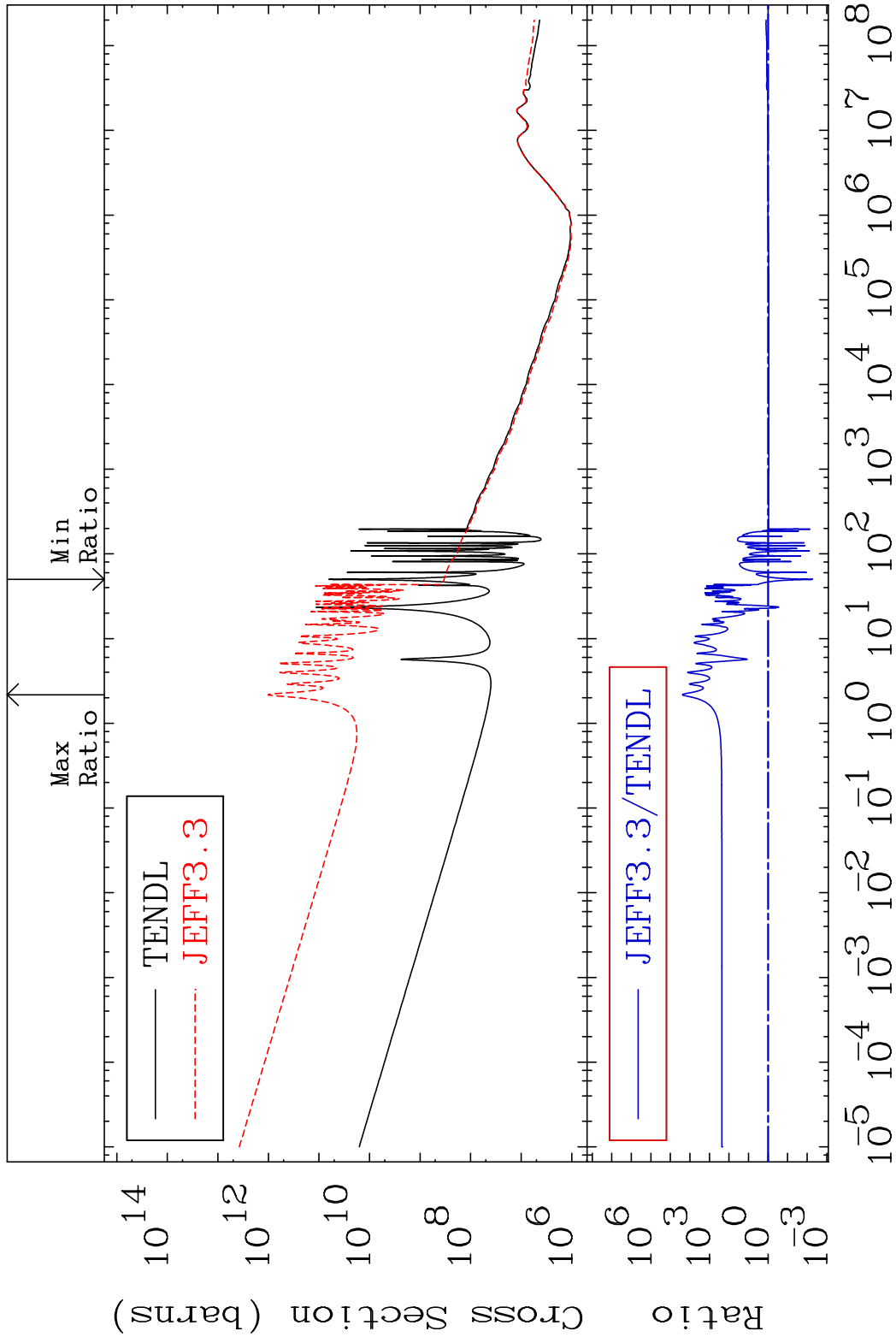
65

Incident Energy (eV) 52-Te-127m

MAT 5247

Total photon (eV-barns) 52-Te-127m

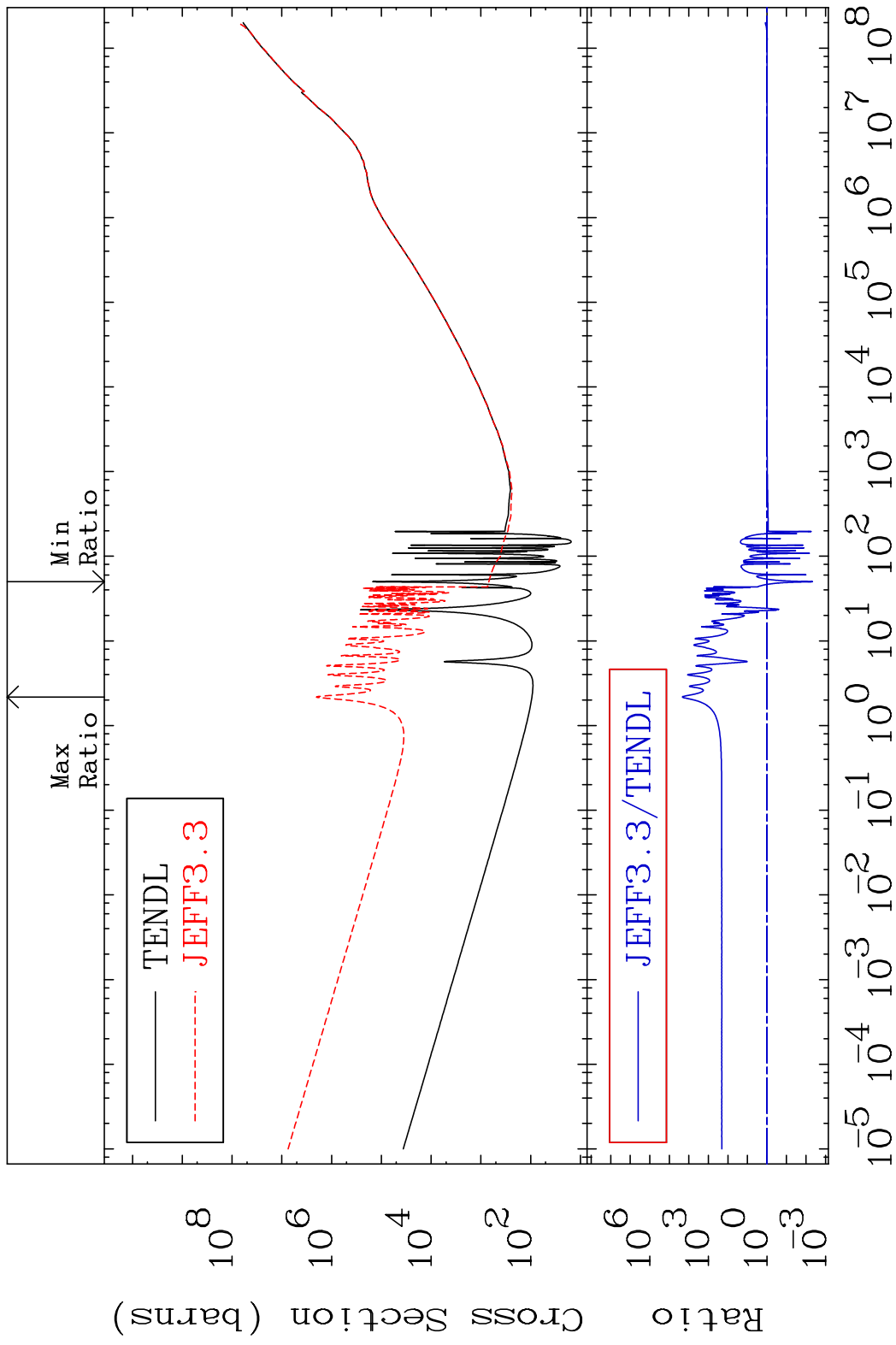
Cross Section -99.47 To 9999. %



66

Incident Energy (eV) 52-Te-127m

MAT 5247 Total kinematic kerma (high limit)52-Te-127m
 Cross Section -99.54 To 9999. %



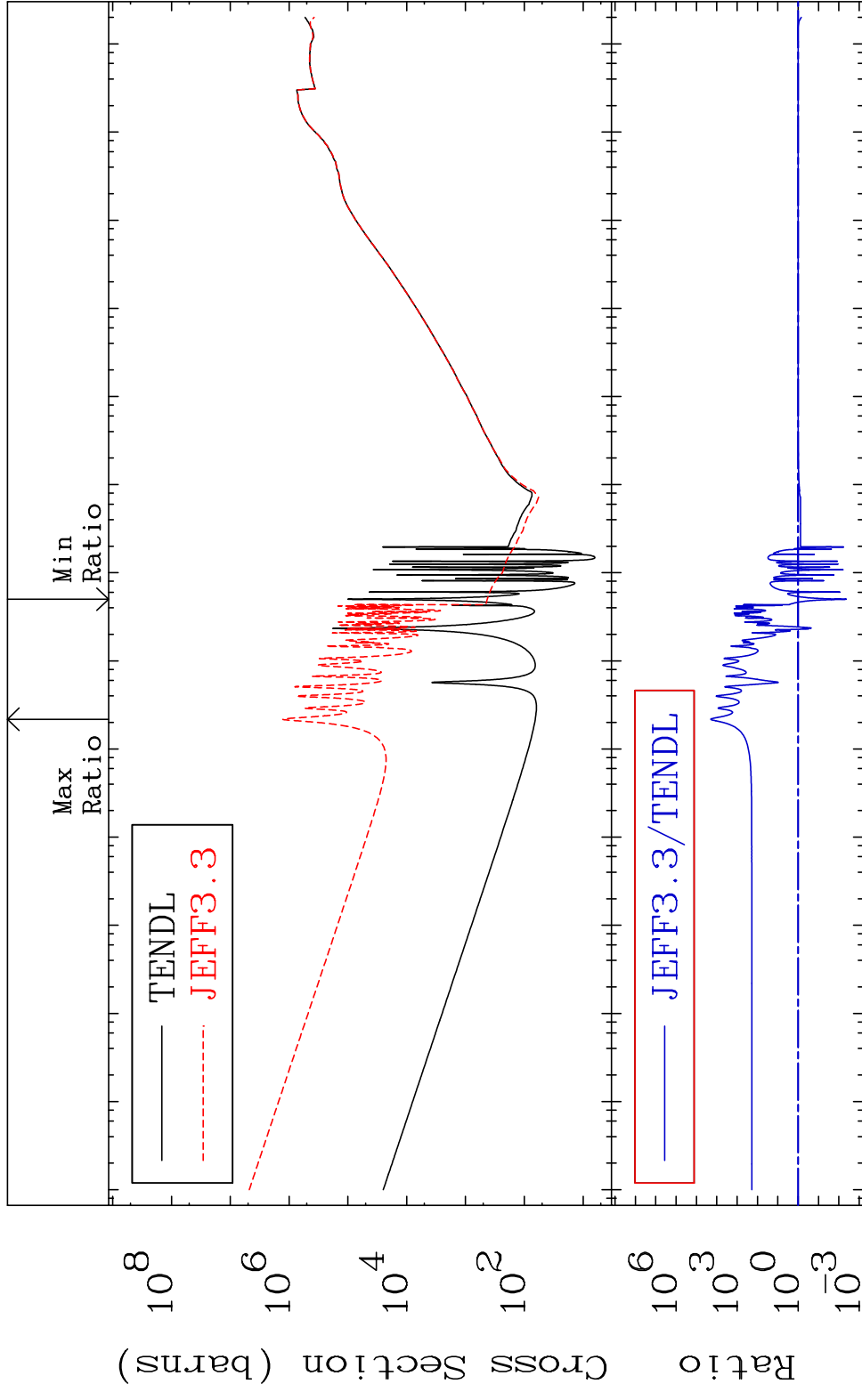
MAT 5247

Dpa total (eV-barns)

52-Te-127m

Cross Section

-99.57 To 9999. %



68

Incident Energy (eV)

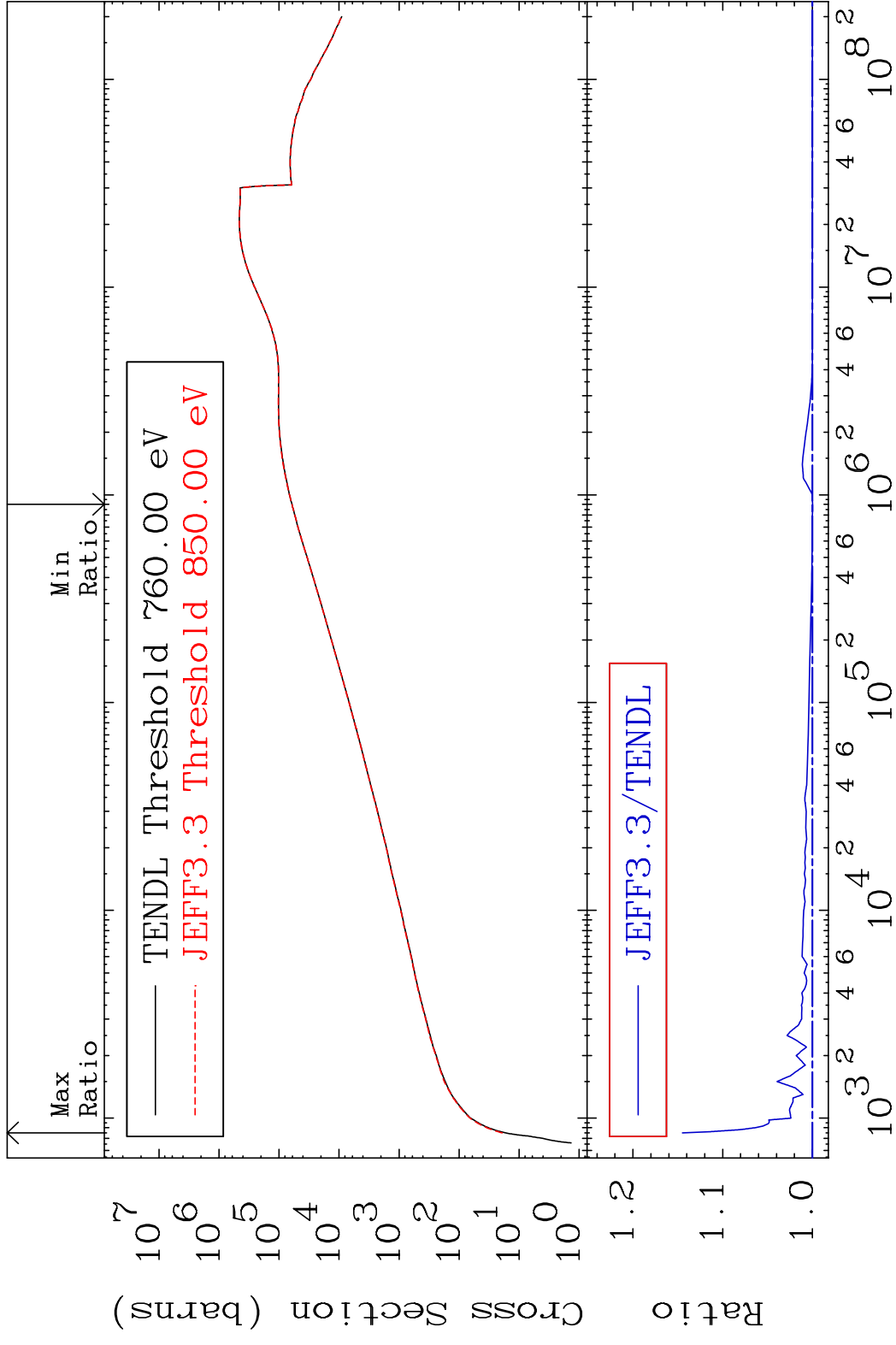
52-Te-127m

MAT 5247

Dpa elastic (mt2)

52-Te-127m

Cross Section -0.016 To 14.49 %

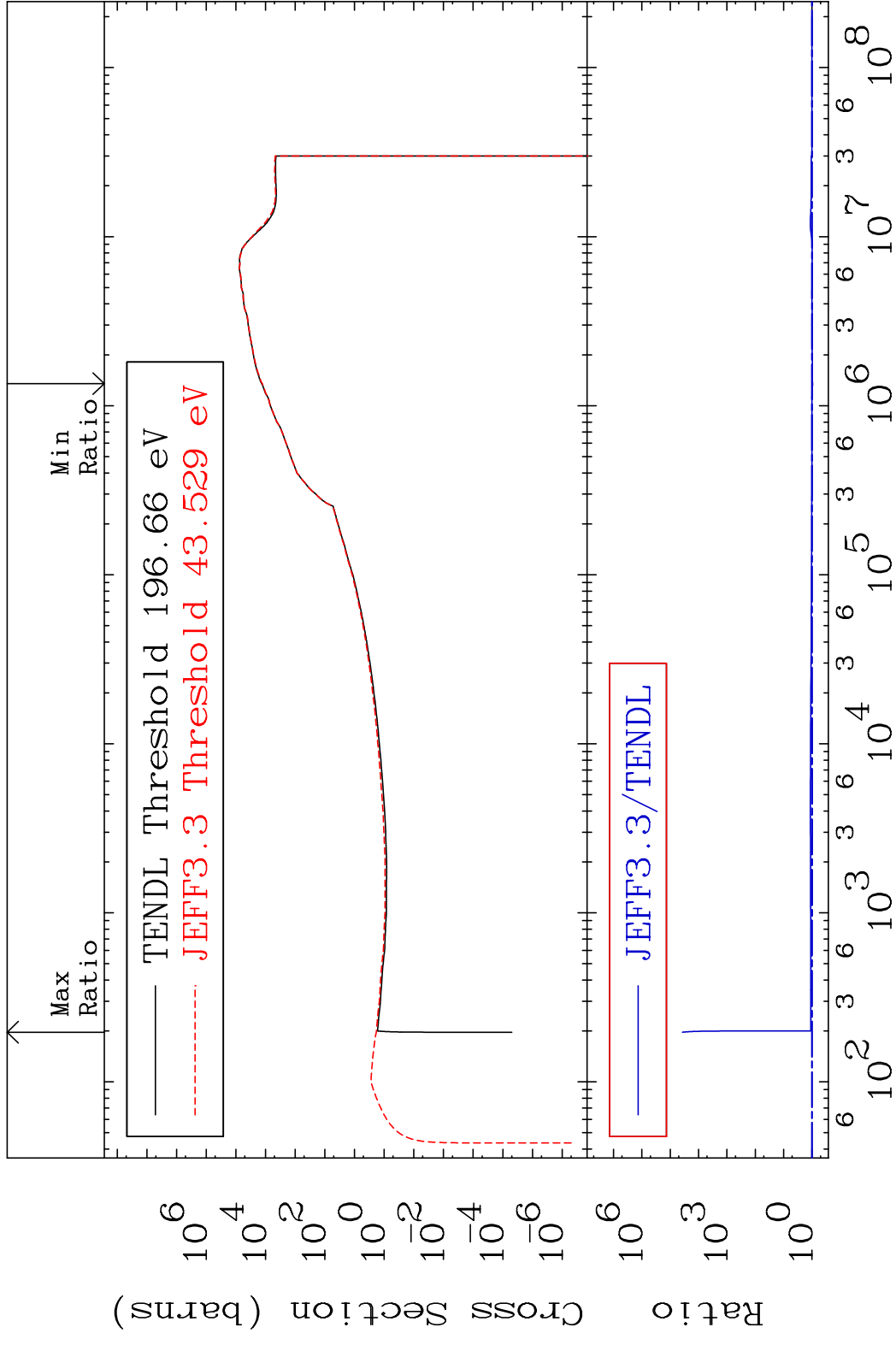


69

Incident Energy (eV)

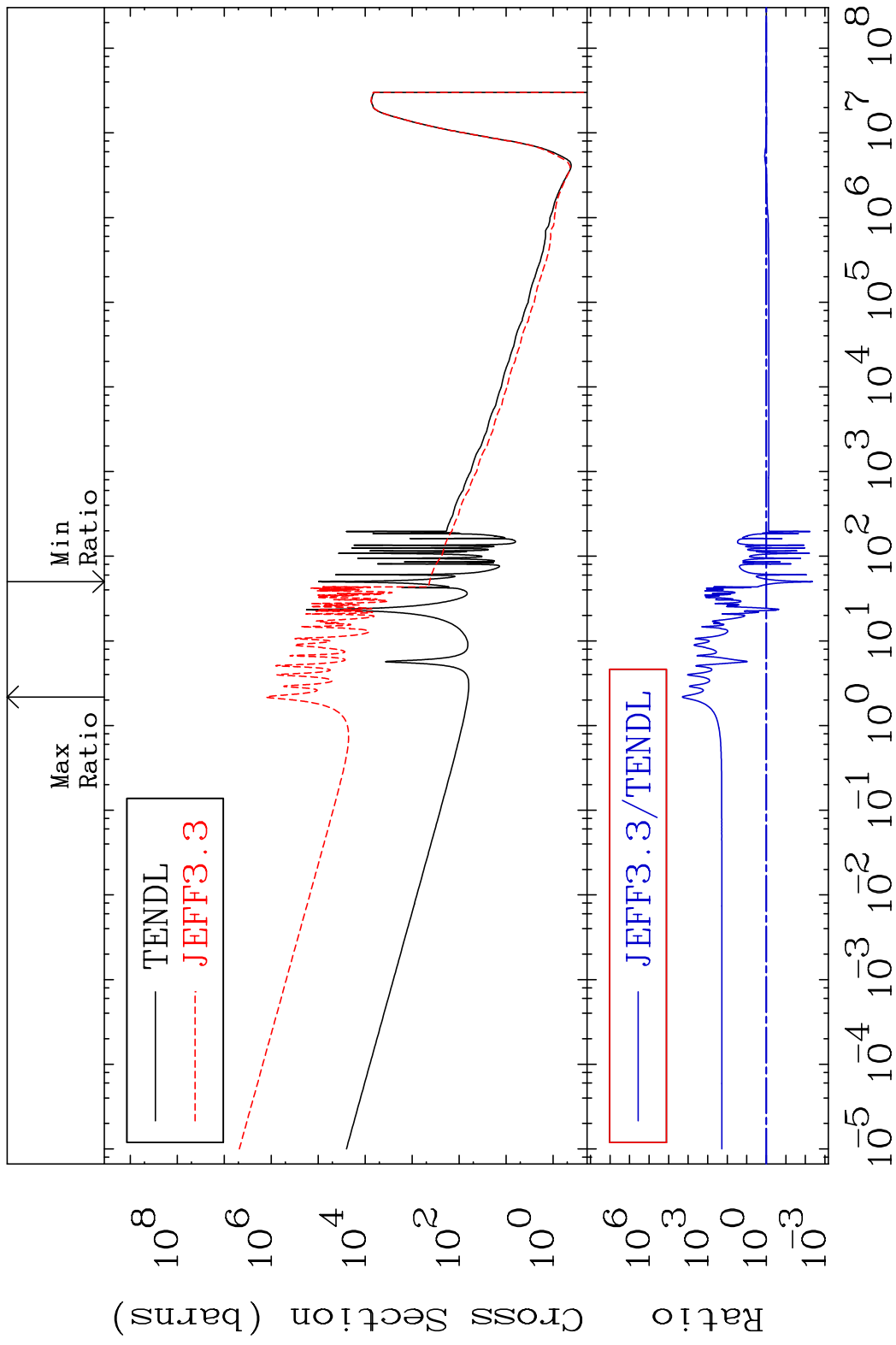
52-Te-127m

MAT 5247 Dpa inelastic (mt51-91) 52-Te-127m
 Cross Section -4.393 To 9999. %

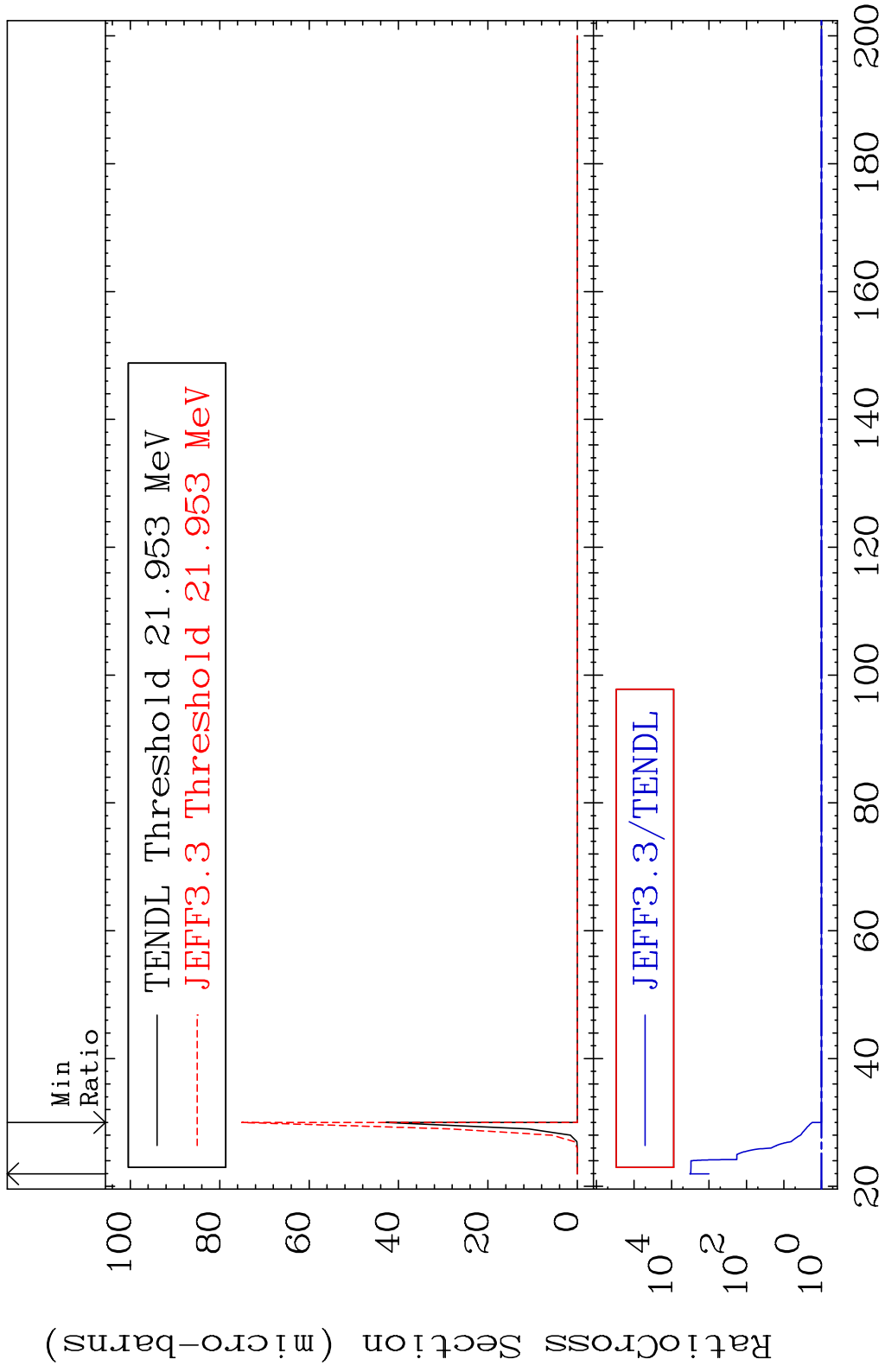


70 Incident Energy (eV) 52-Te-127m

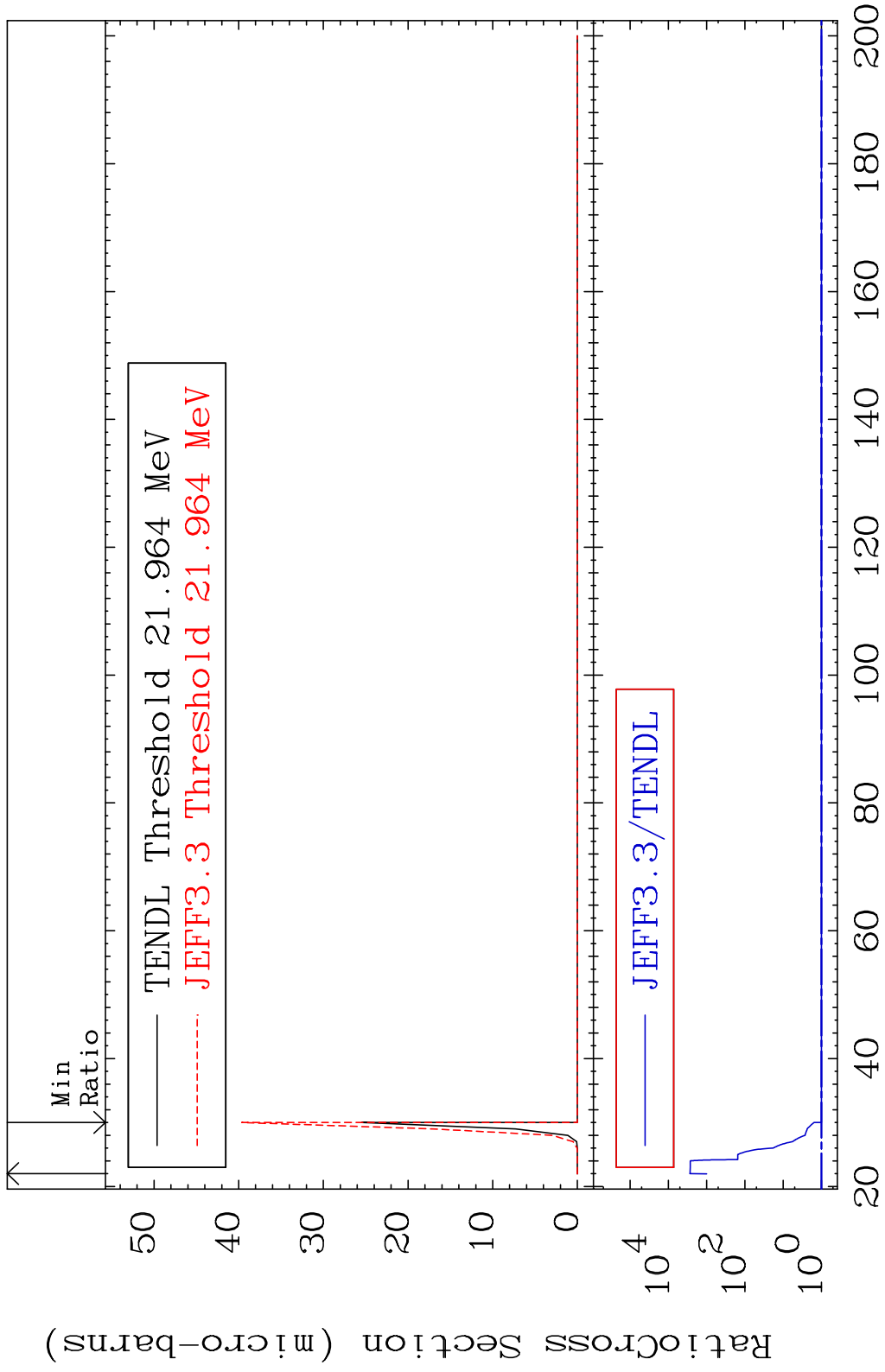
MAT 5247 Dpa disappearance (mt102 -120) 52-Te-127m
 Cross Section -99.57 To 9999. %



MAT 5247 (n,2n) d:51-Sb-124g 52-Te-127m
 Radionuclide Production Cross Section, %

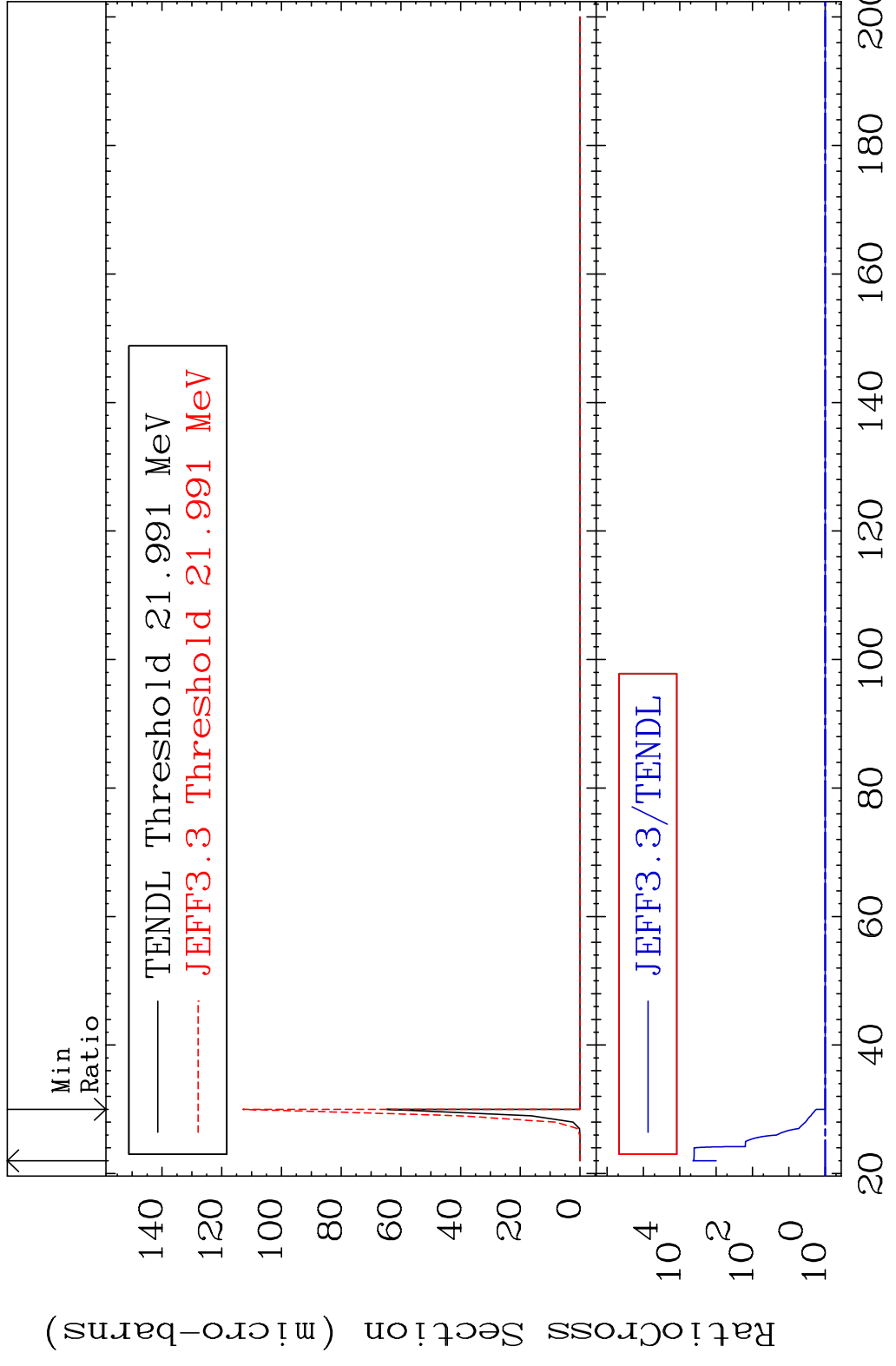


MAT 5247 (n,2n) d:51-Sb-124m1 52-Te-127m
 Radionuclide Production Cross Section, %

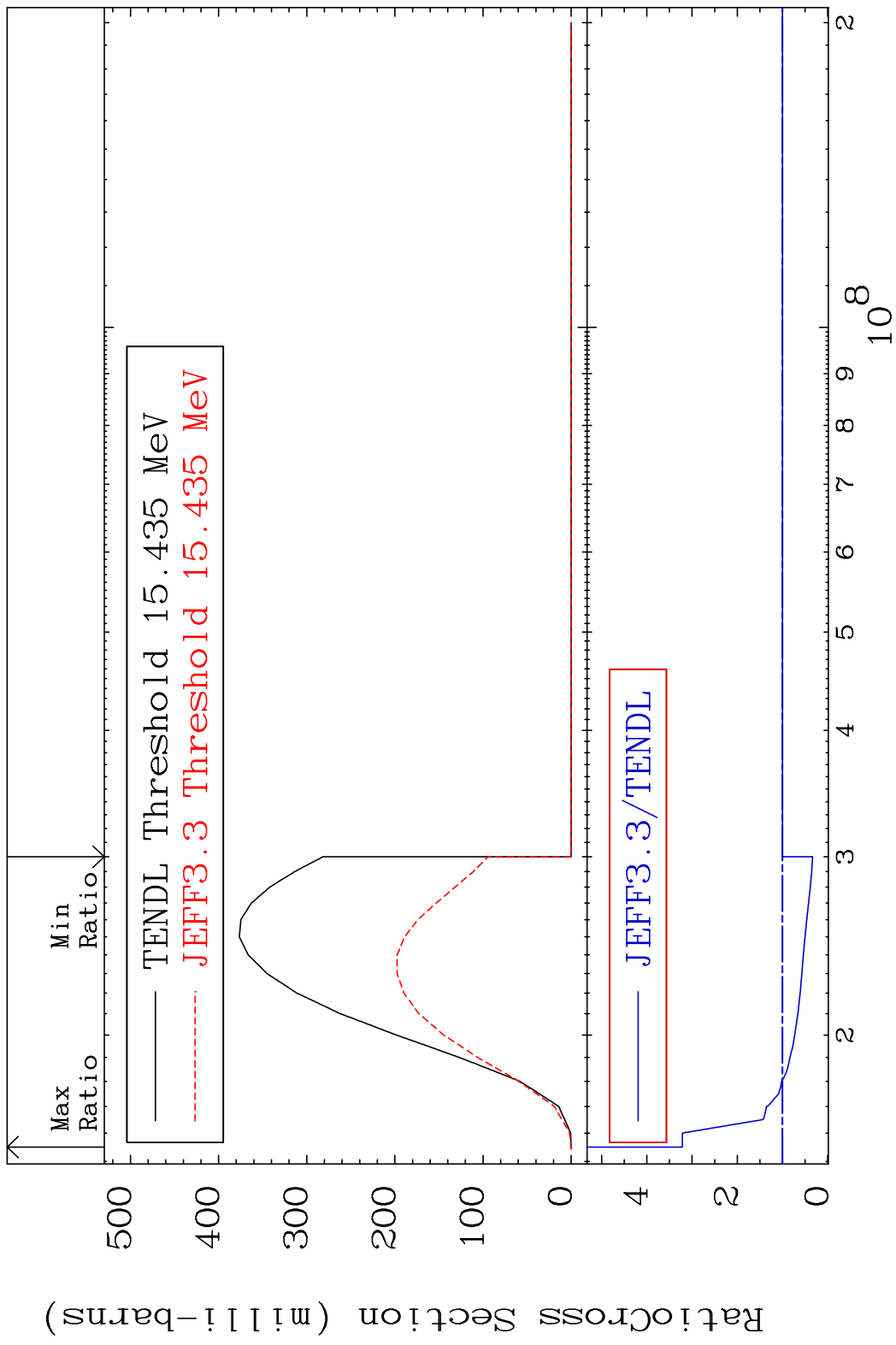


73 Incident Energy (MeV) 52-Te-127m

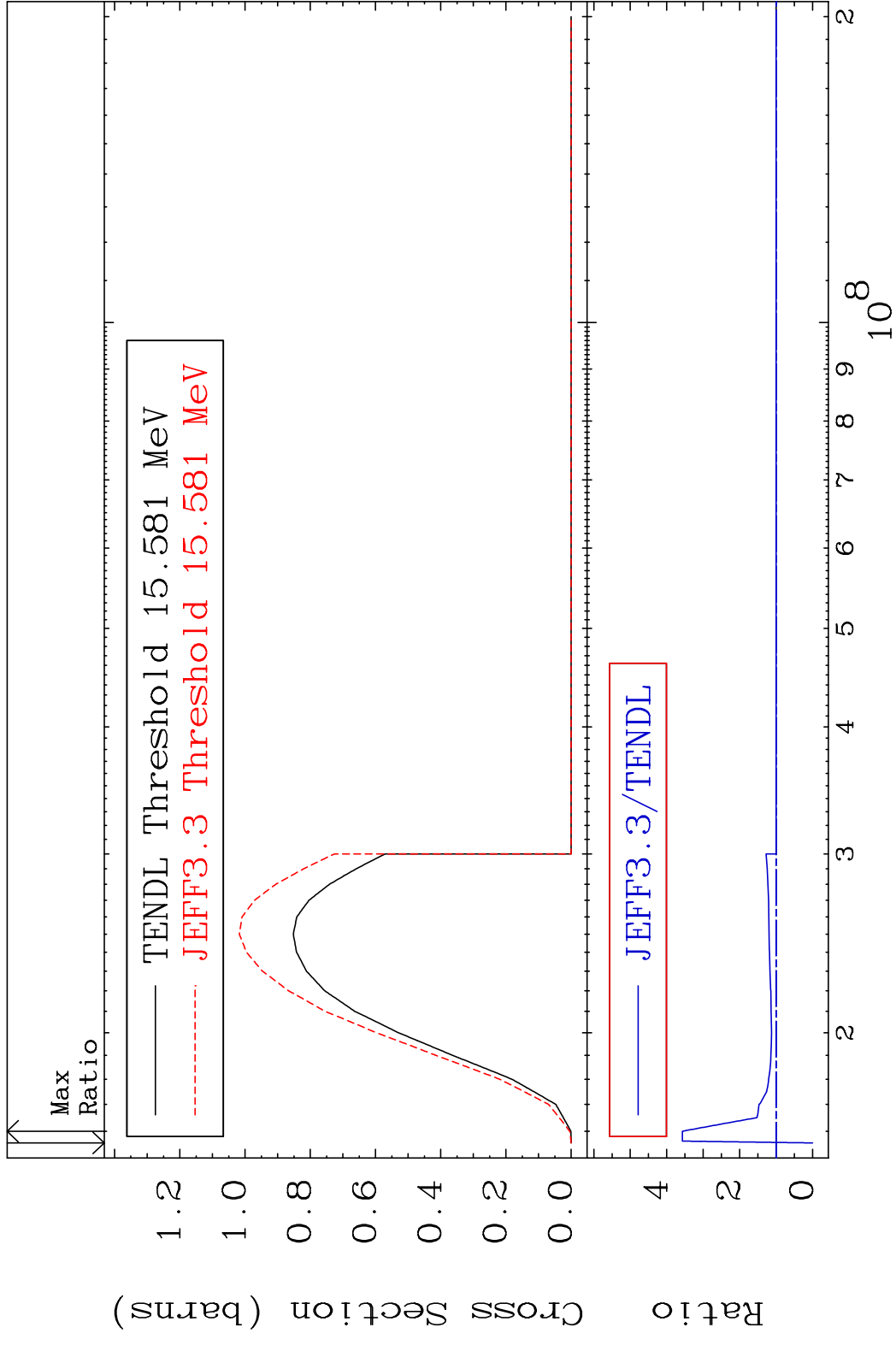
MAT 5247 (n,2n) d:51-Sb-124m2 52-Te-127m
 Radionuclide Production Cross Section, %



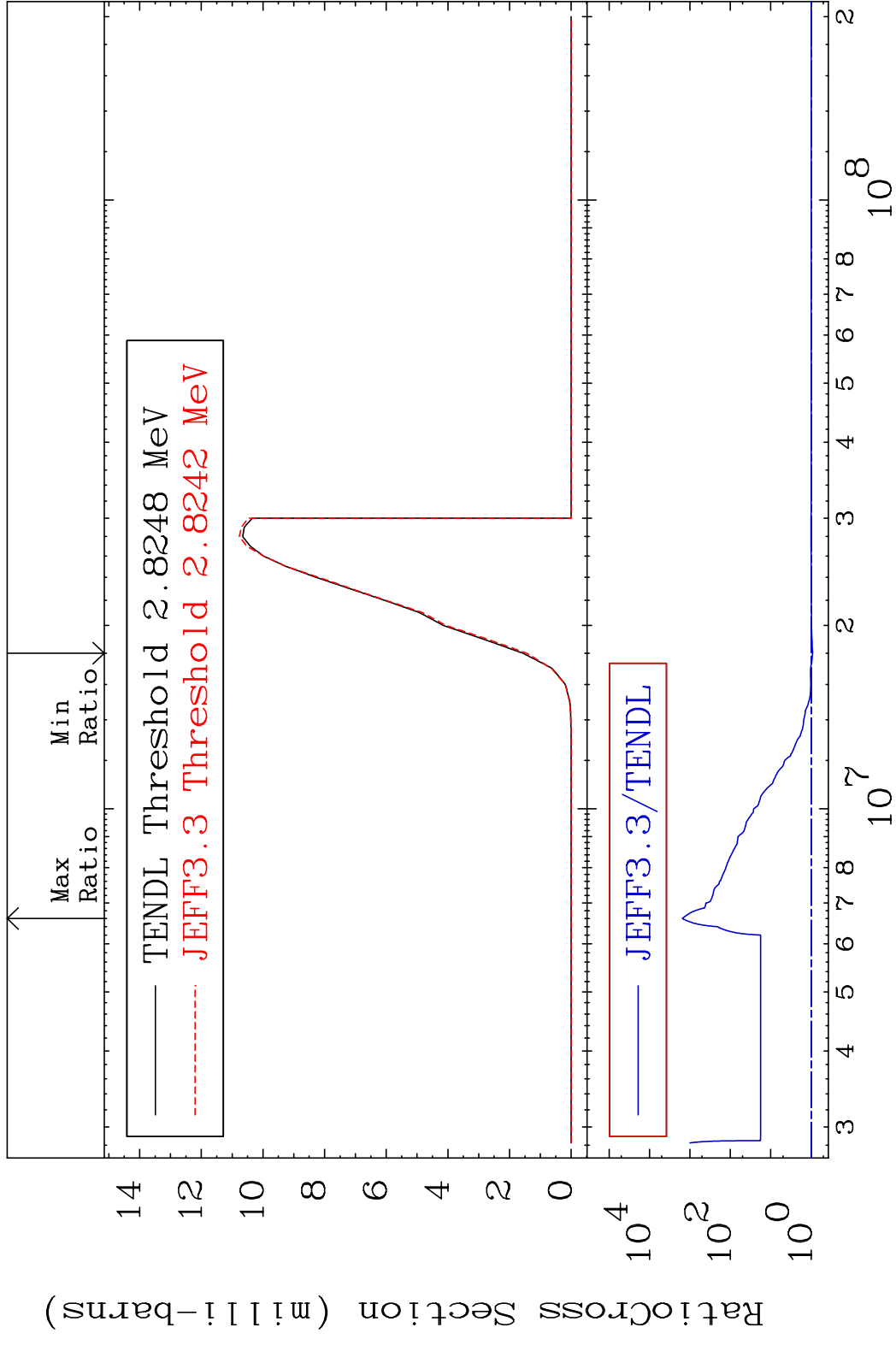
MAT 5247 (n,3n):52-Te-125g 52-Te-127m
 Radionuclide Production Cross Section 68e50 d10 221.5 %



MAT 5247 (n, 3n):52-Te-125m2 52-Te-127m
 Radionuclide Production Cross Section to 257.1 %

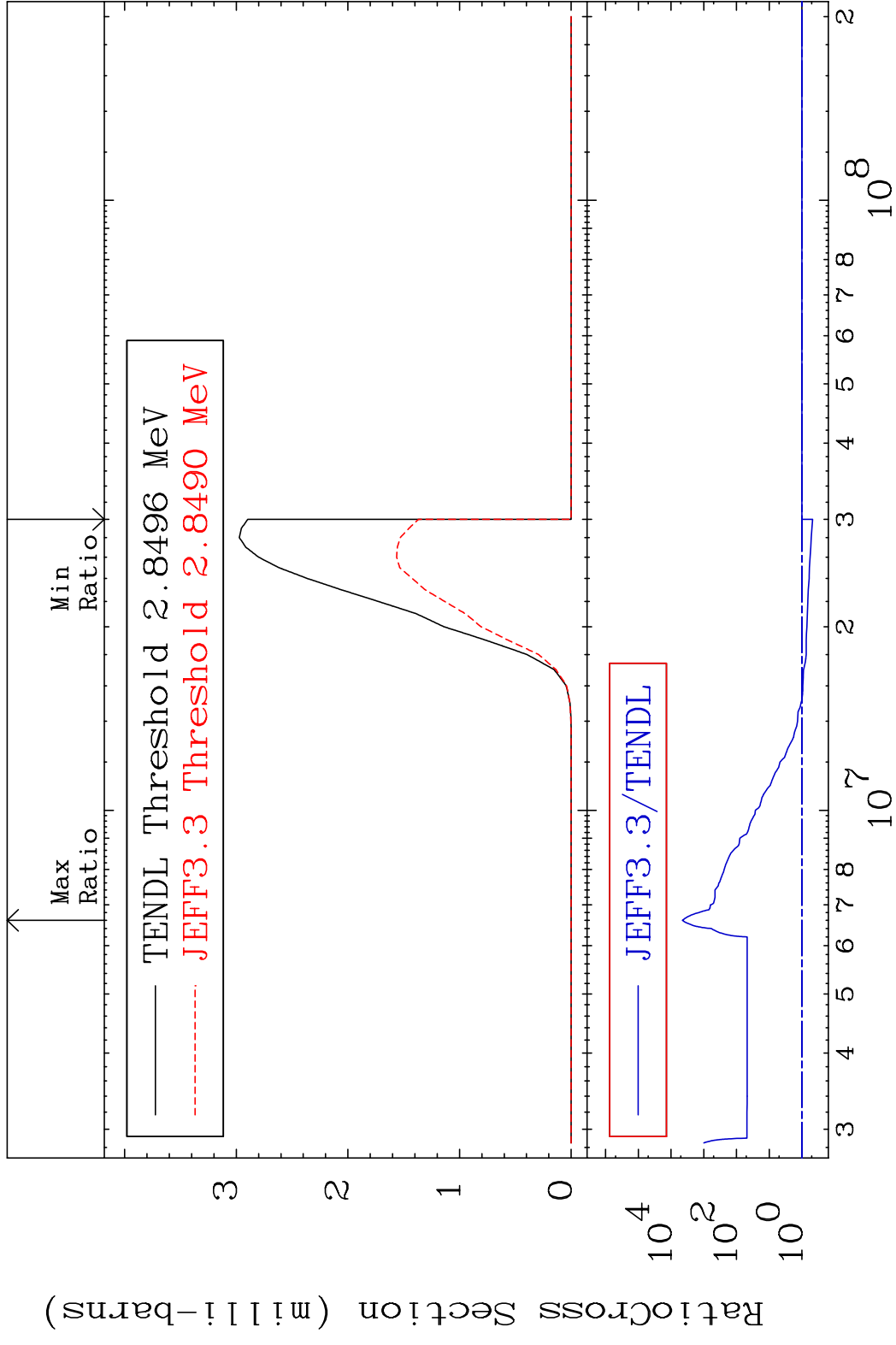


MAT 5247 (n, n') α :50-Sn-123g 52-Te-127m
 Radionuclide Production Cross Section 9999. %



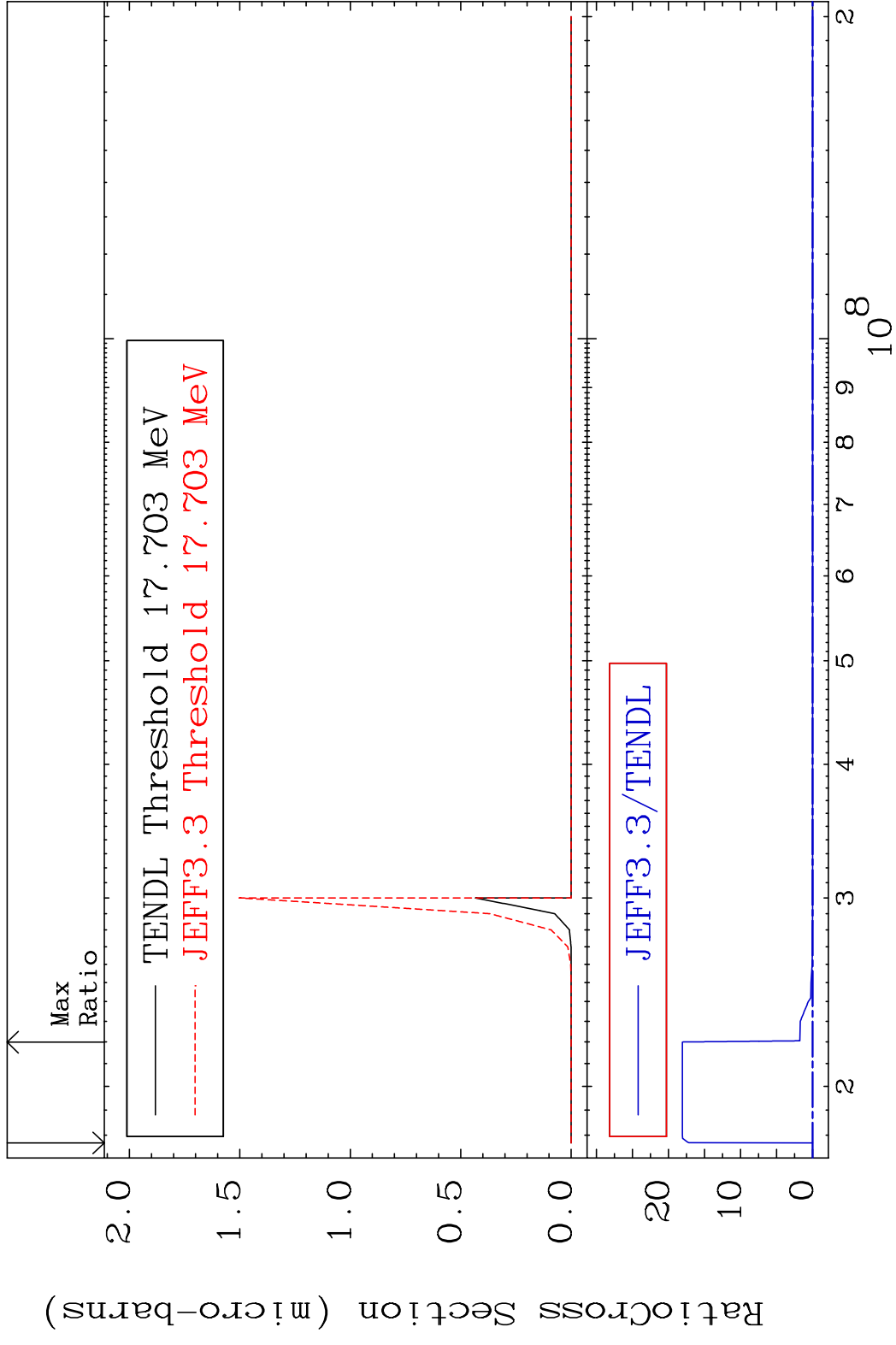
77 Incident Energy (eV) 52-Te-127m

MAT 5247 (n, n') α :50-Sn-123m1 52-Te-127m
 Radionuclide Production Cross Section to 9999. %

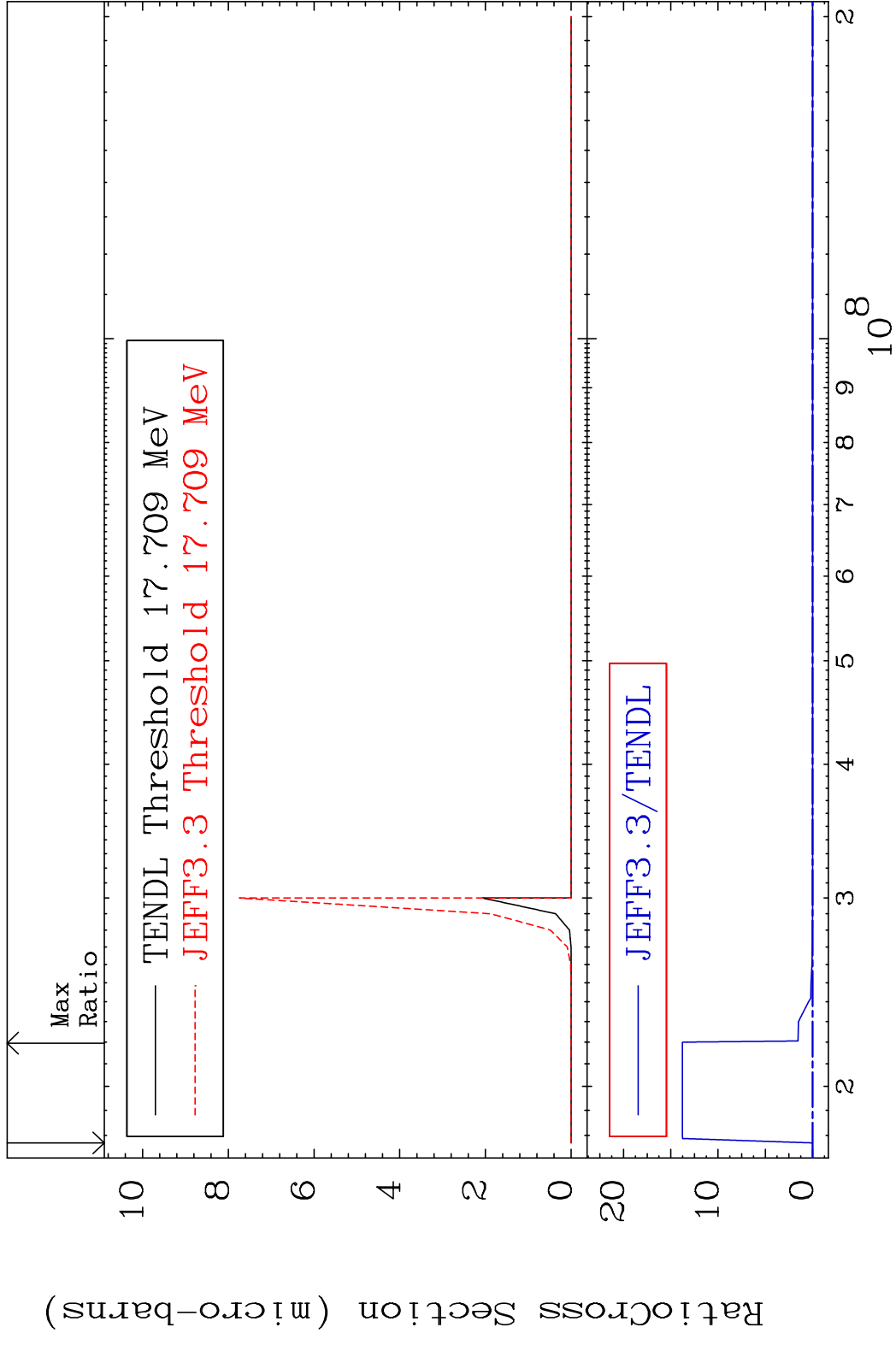


78 Incident Energy (eV) 52-Te-127m

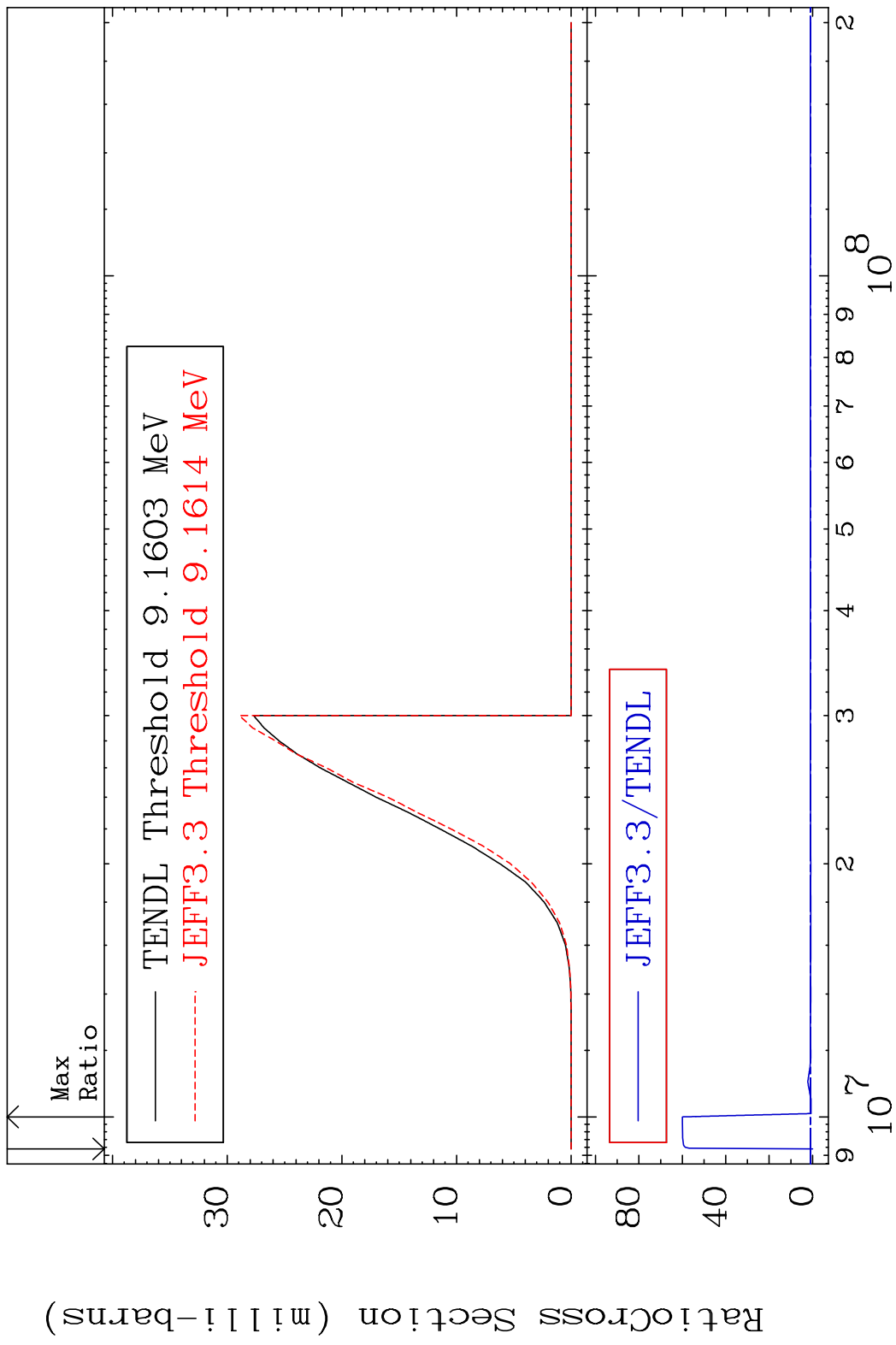
MAT 5247 (n,3n) α :50-Sn-121g 52-Te-127m
 Radionuclide Production Cross Section to 9999. %



MAT 5247 (n,3n) α :50-Sn-121m1 52-Te-127m
 Radionuclide Production Cross Section 1800.0 dth 9999. %

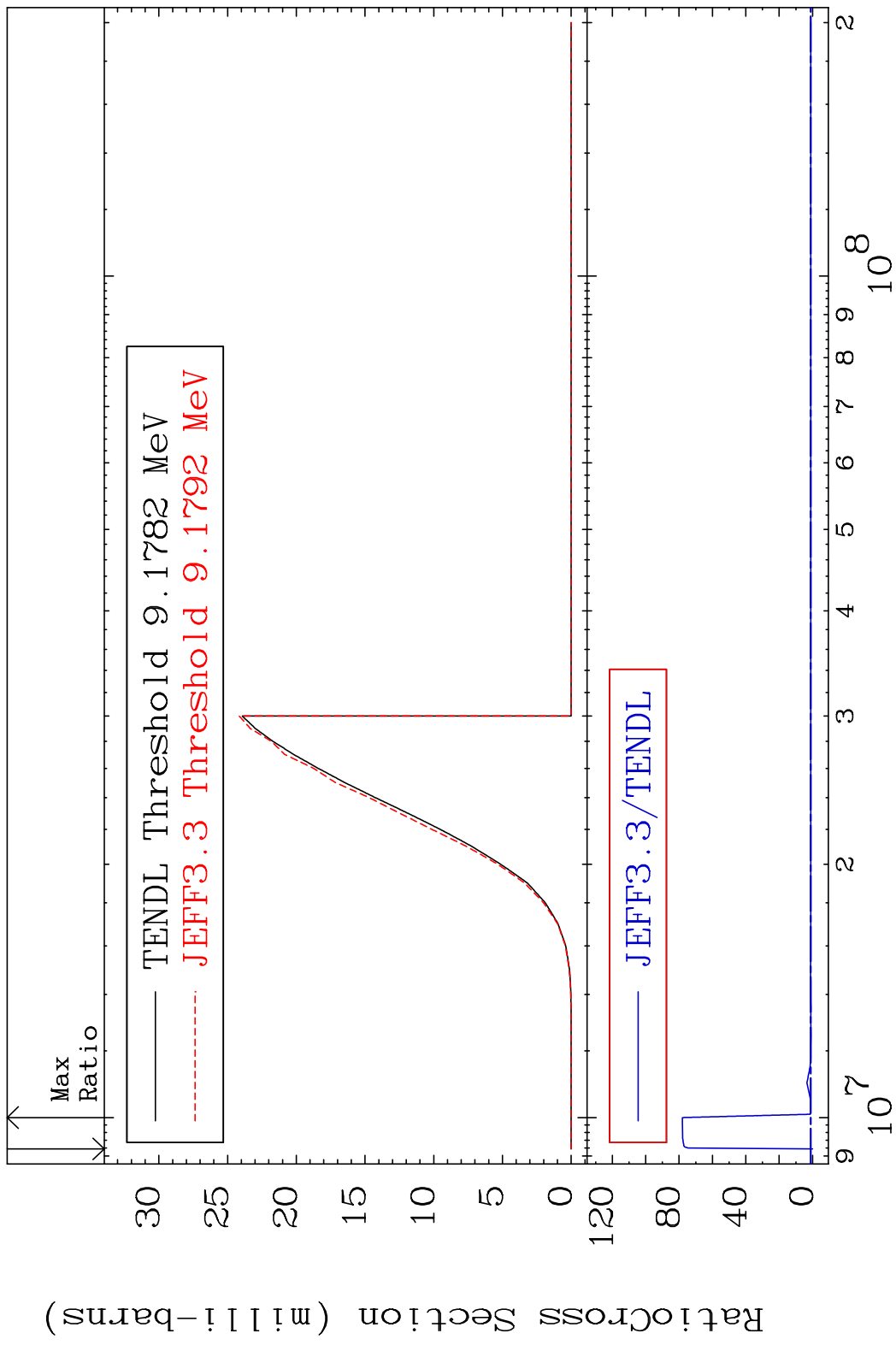


MAT 5247 (n, n') p:51-Sb-126g 52-Te-127m
 Radionuclide Production Cross Section to 5899. %



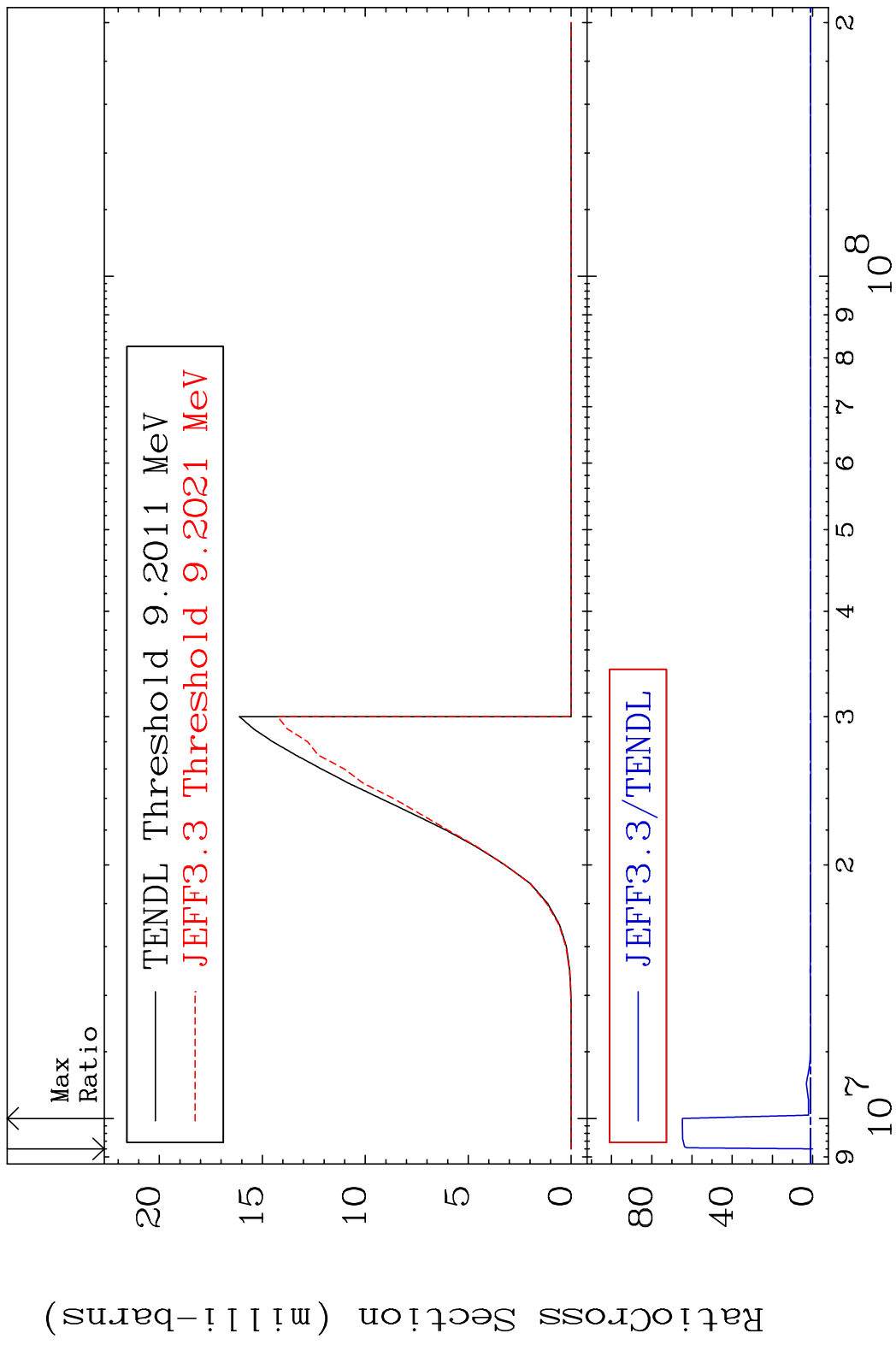
81 Incident Energy (eV) 52-Te-127m

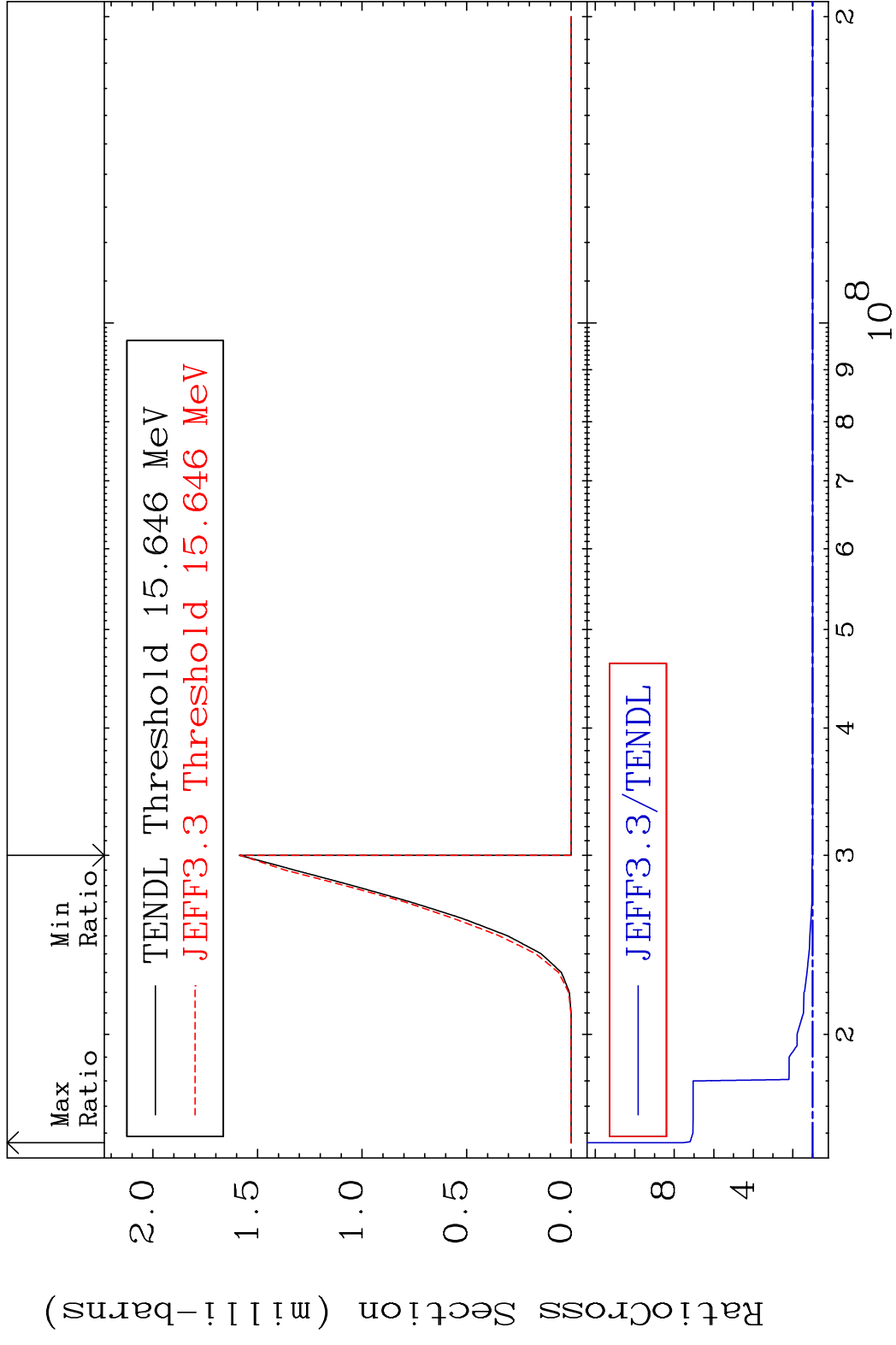
MAT 5247 (n, n') p:51-Sb-126m1 52-Te-127m
 Radionuclide Production Cross Section 1800.0 dth 7703. %

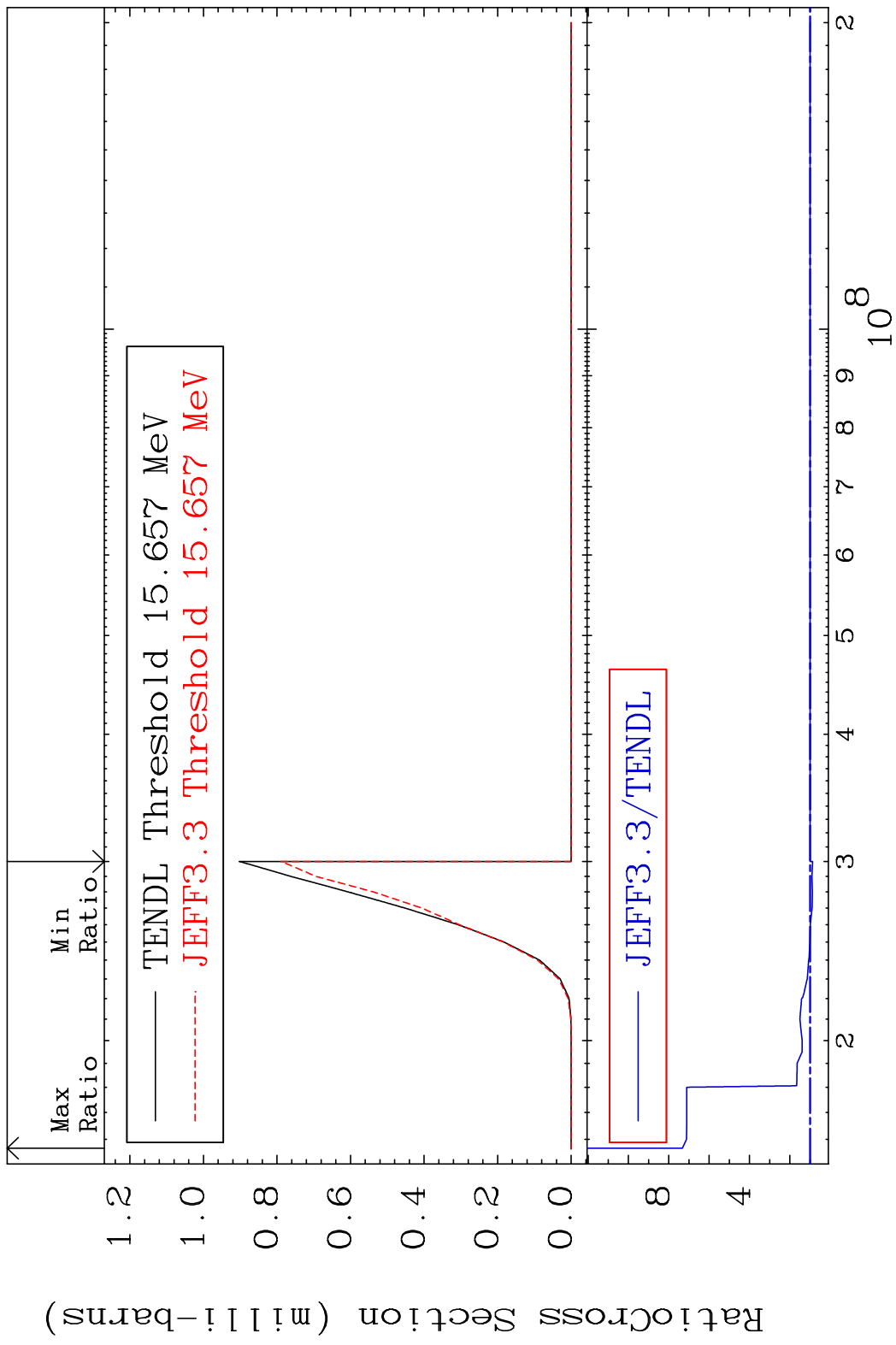


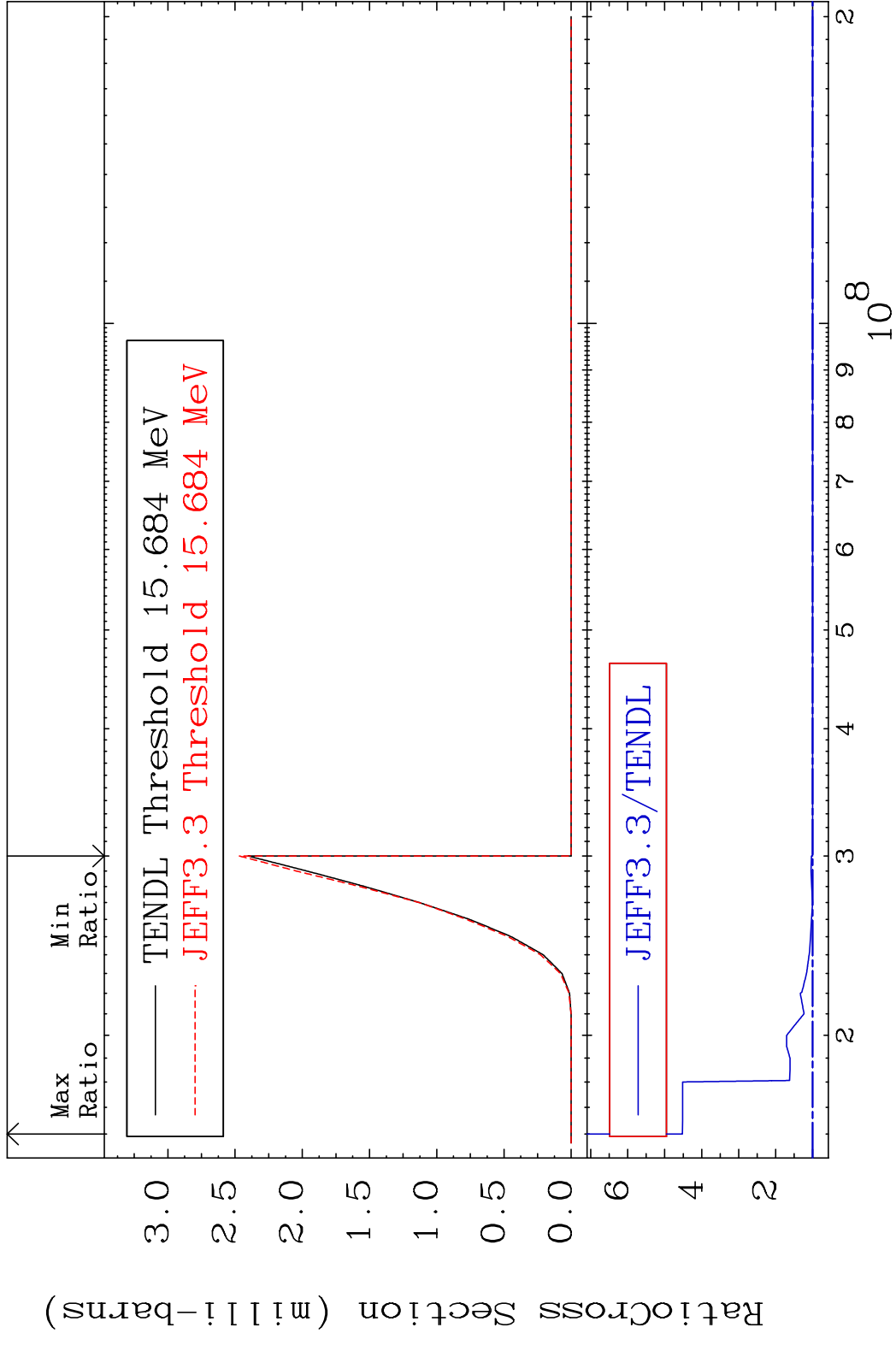
82 Incident Energy (eV) 52-Te-127m

MAT 5247 (n, n') p:51-Sb-126m2 52-Te-127m
 Radionuclide Production Cross Section to 6378. %

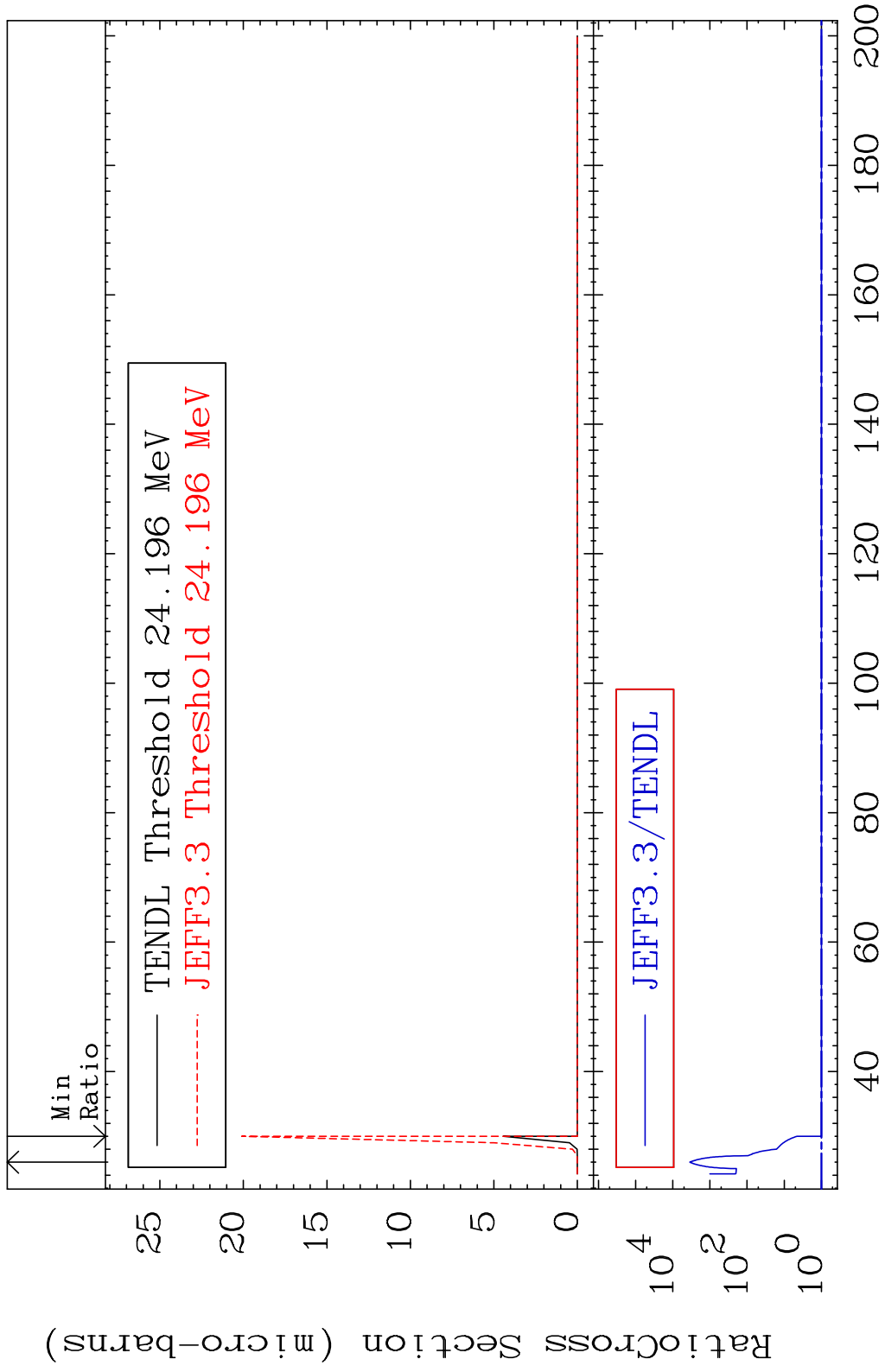


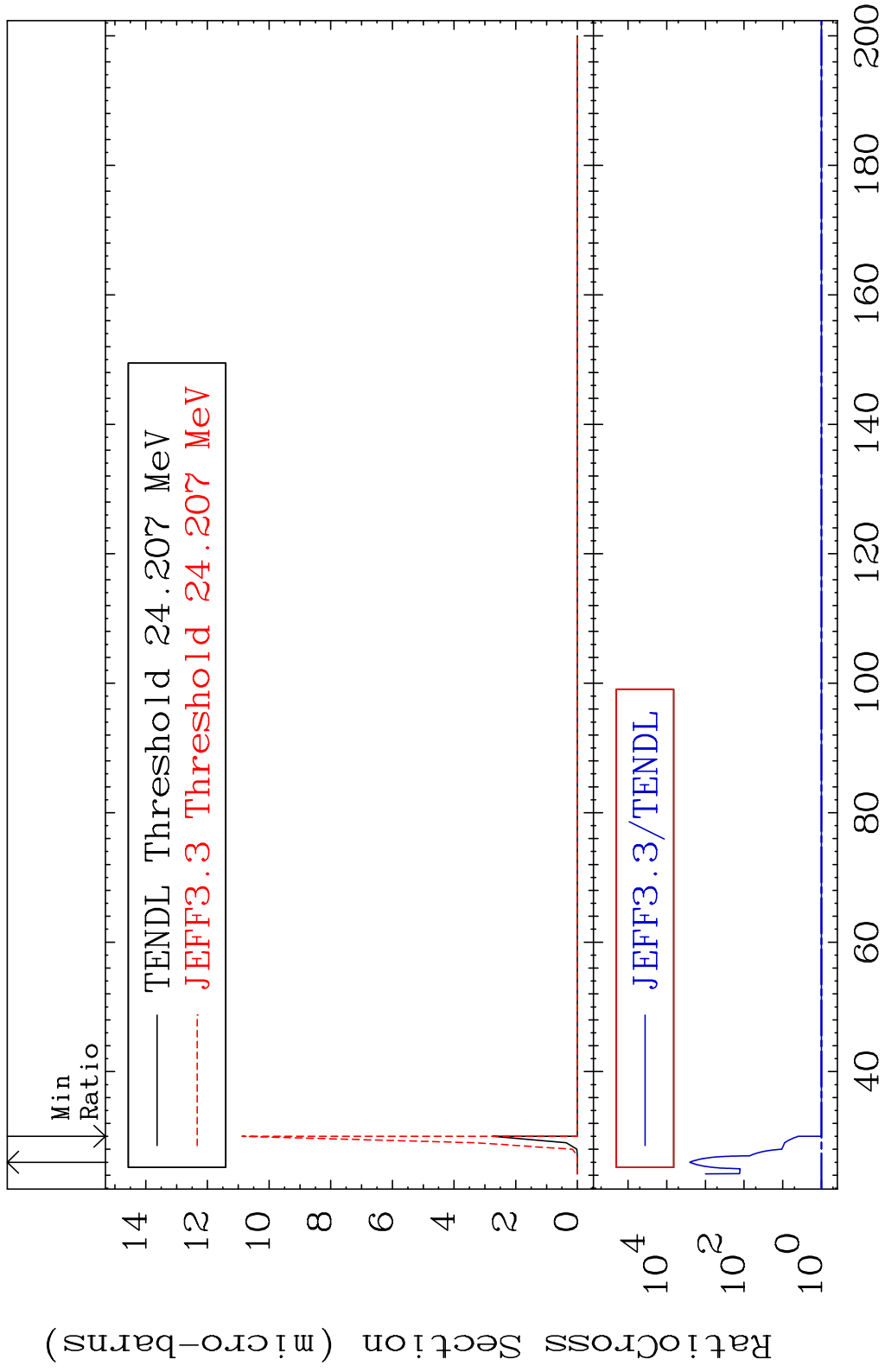


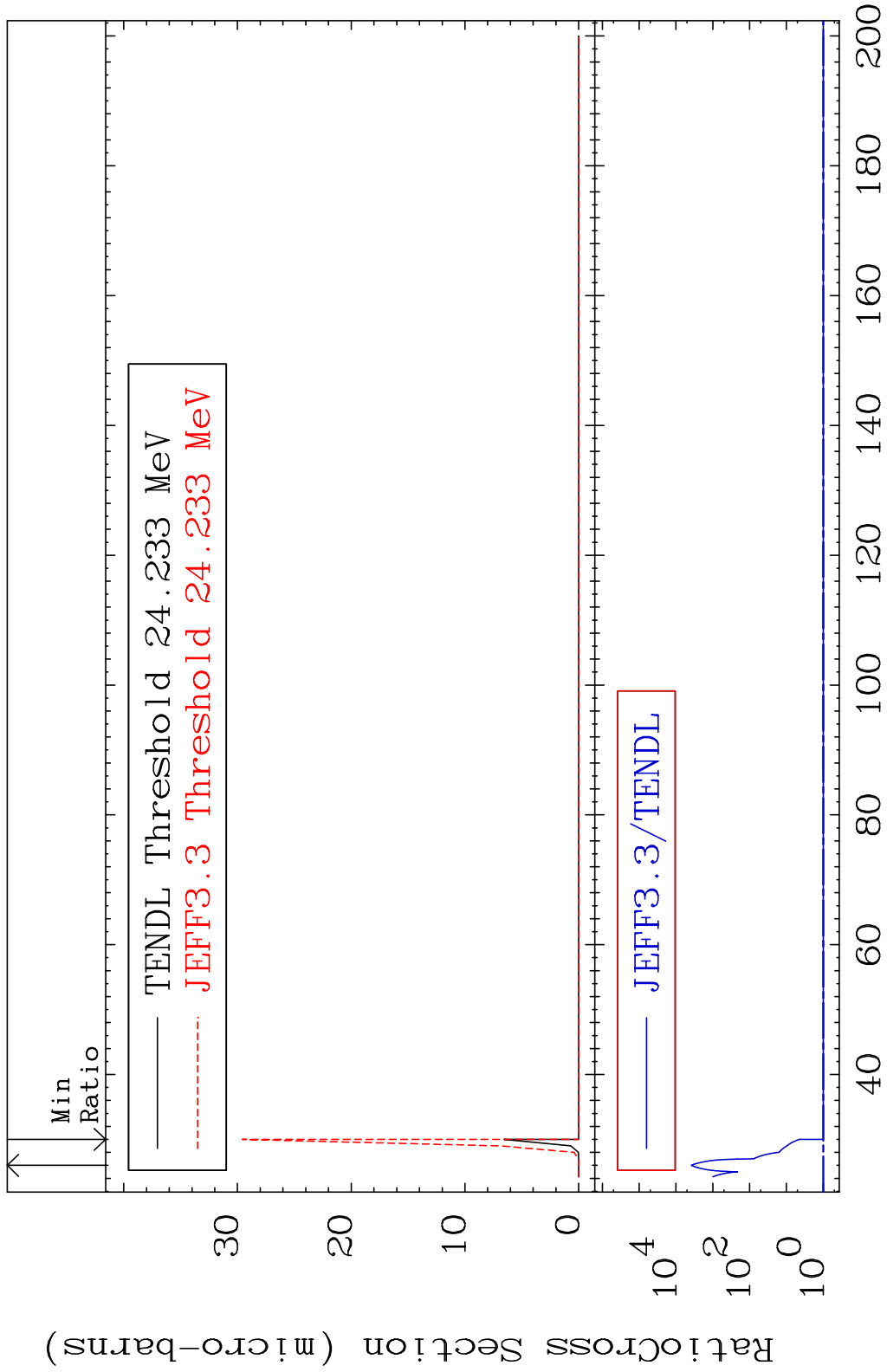




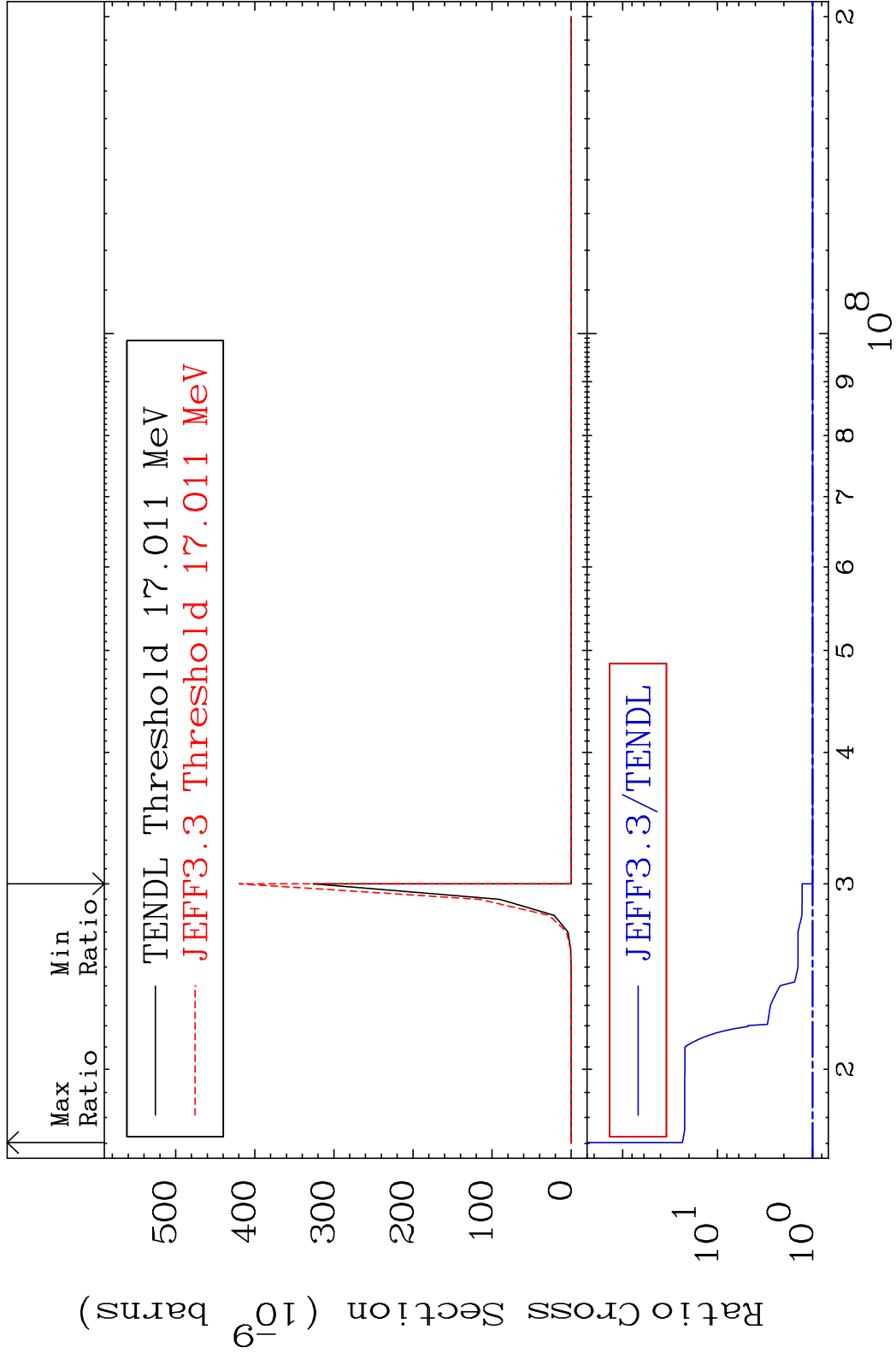
MAT 5247 (n,3n) p:51-Sb-124g 52-Te-127m
 Radionuclide Production Cross Section, %



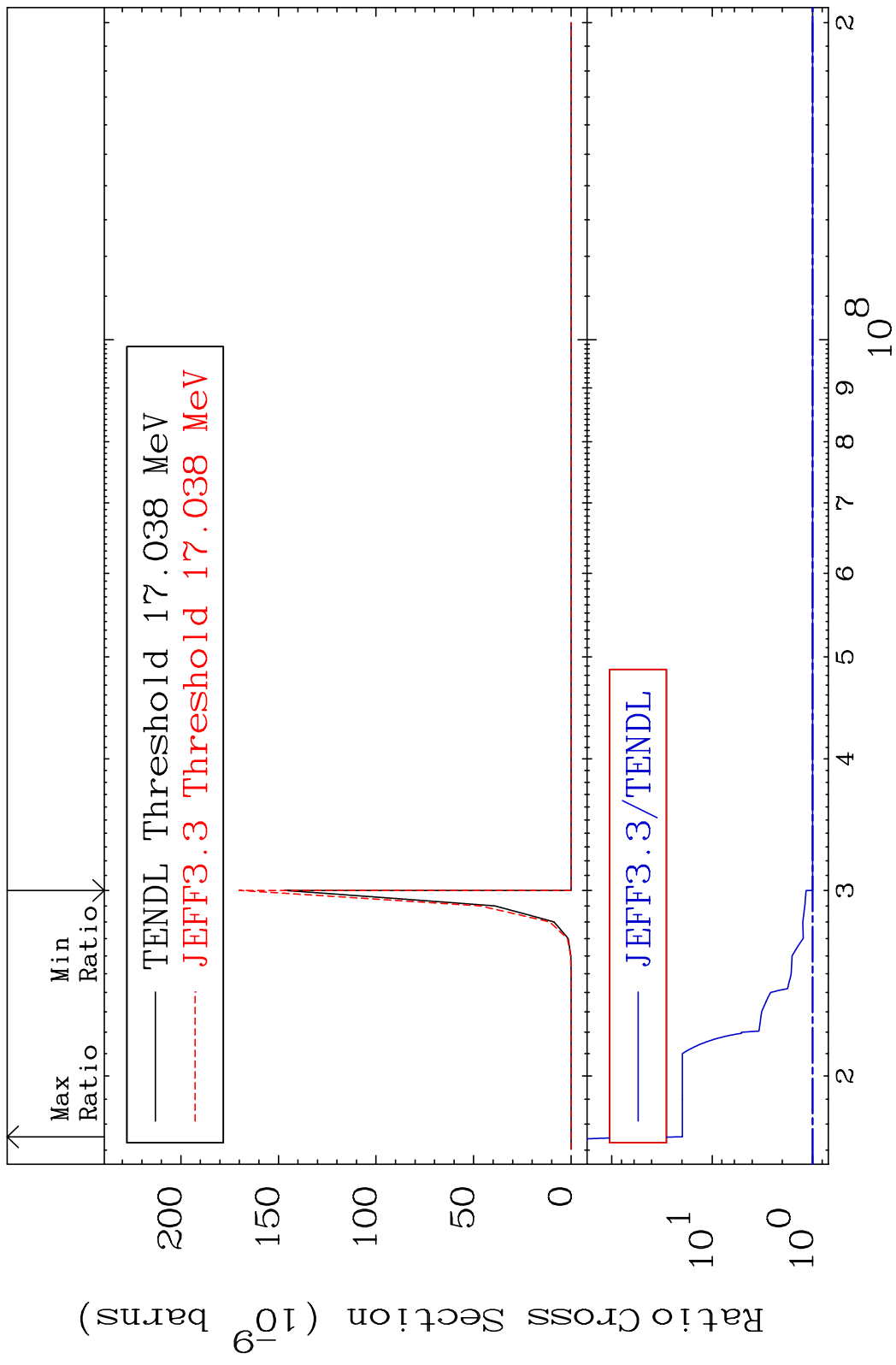




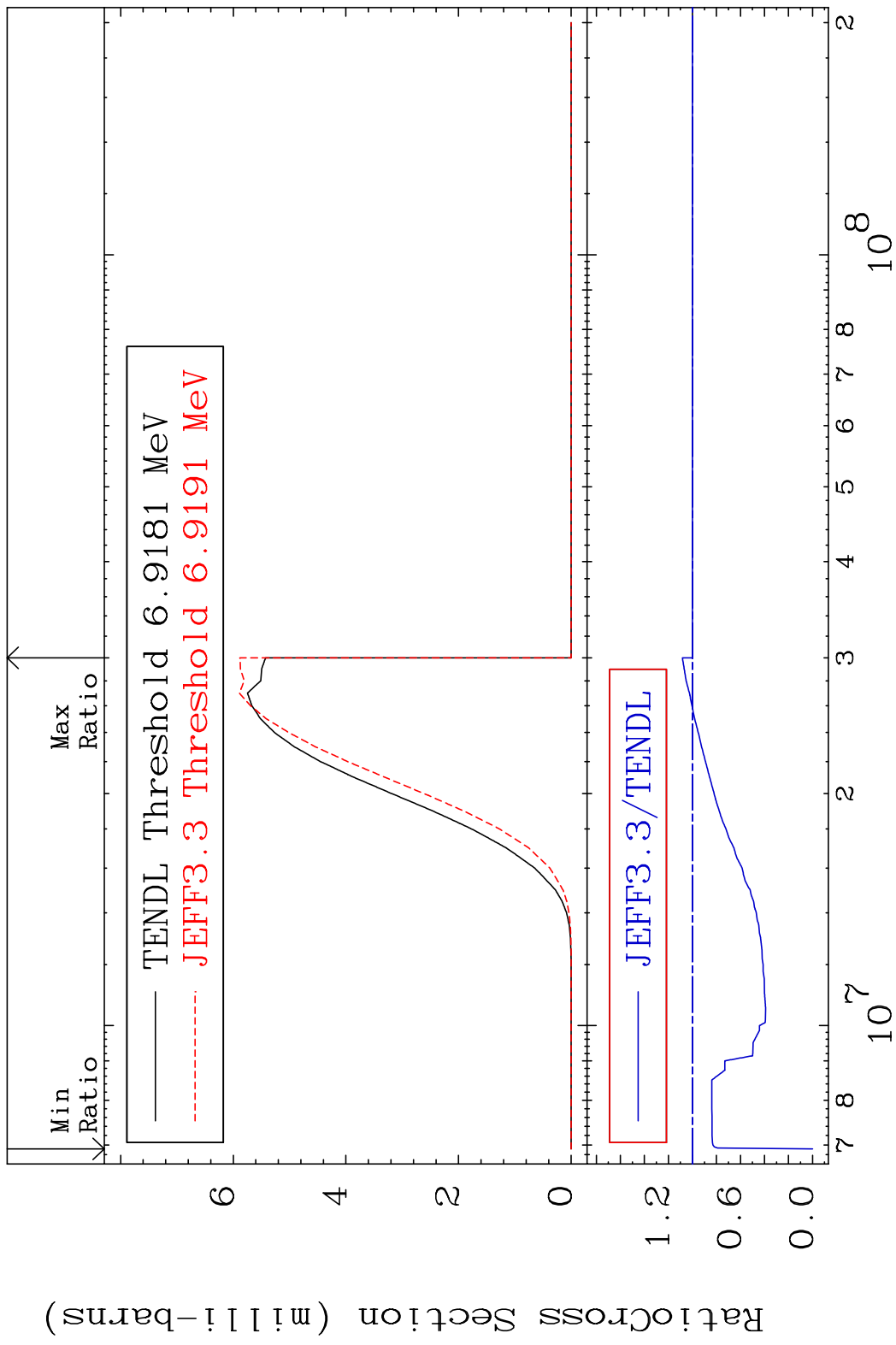
MAT 5247 (n,2n) p:50-Sn-125g 52-Te-127m
 Radionuclide Production Cross Section, %
 2252. %



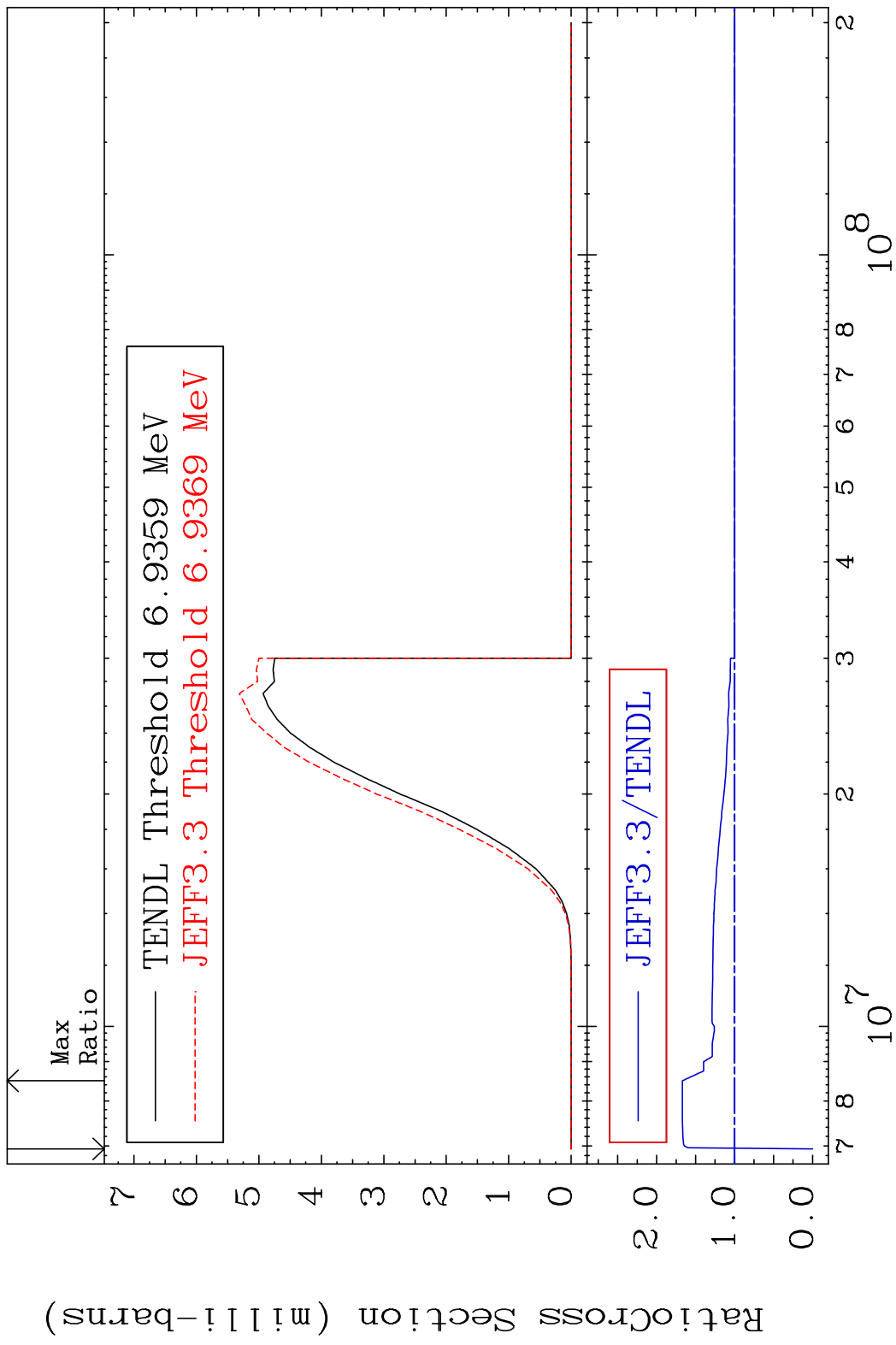
MAT 5247 (n,2n) p:50-Sn-125m1 52-Te-127m
 Radionuclide Production Cross Section, Solid 1881. %



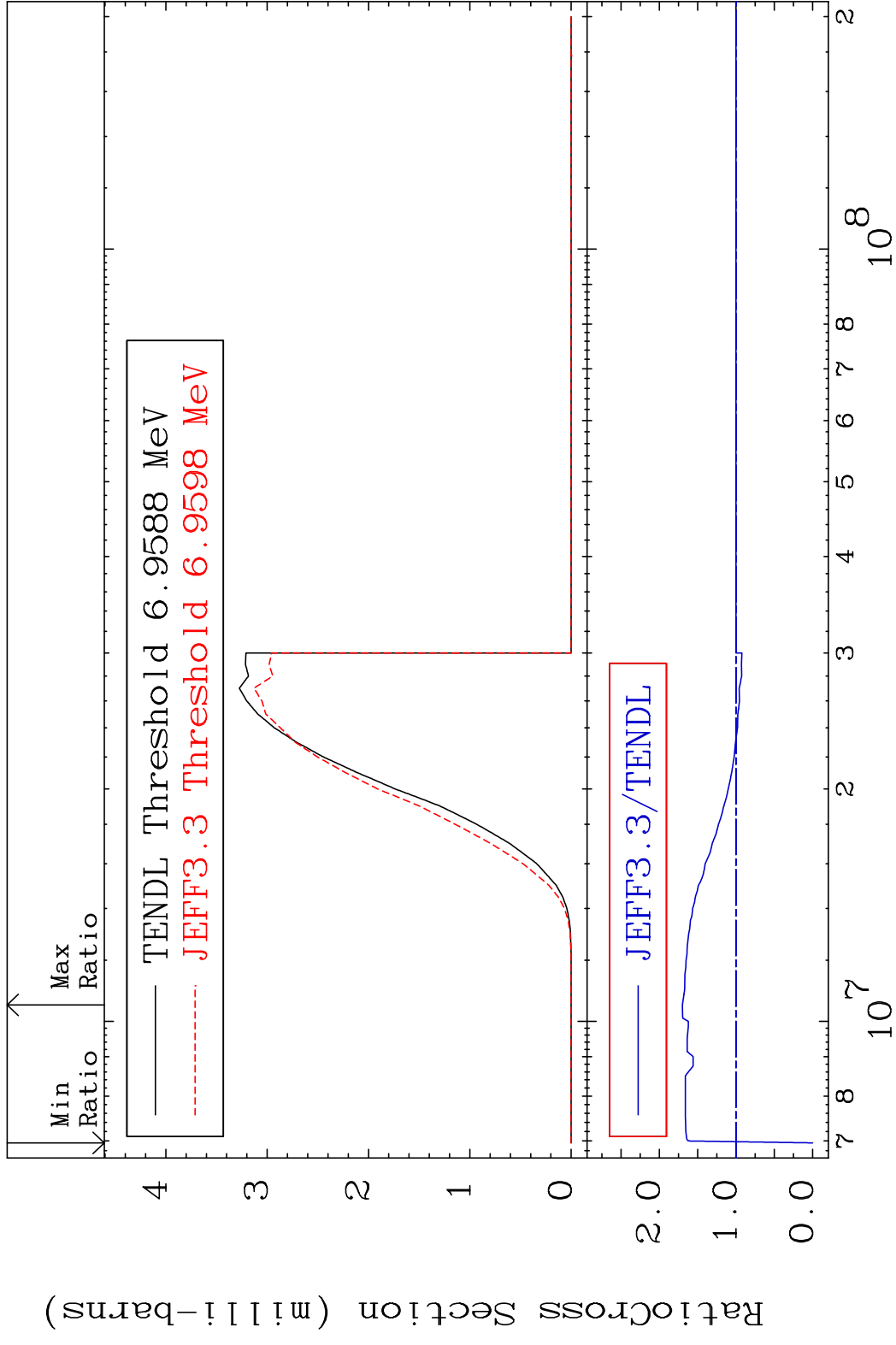
MAT 5247 (n, d):51-Sb-126g 52-Te-127m
 Radionuclide Production Cross Section 8.408 %



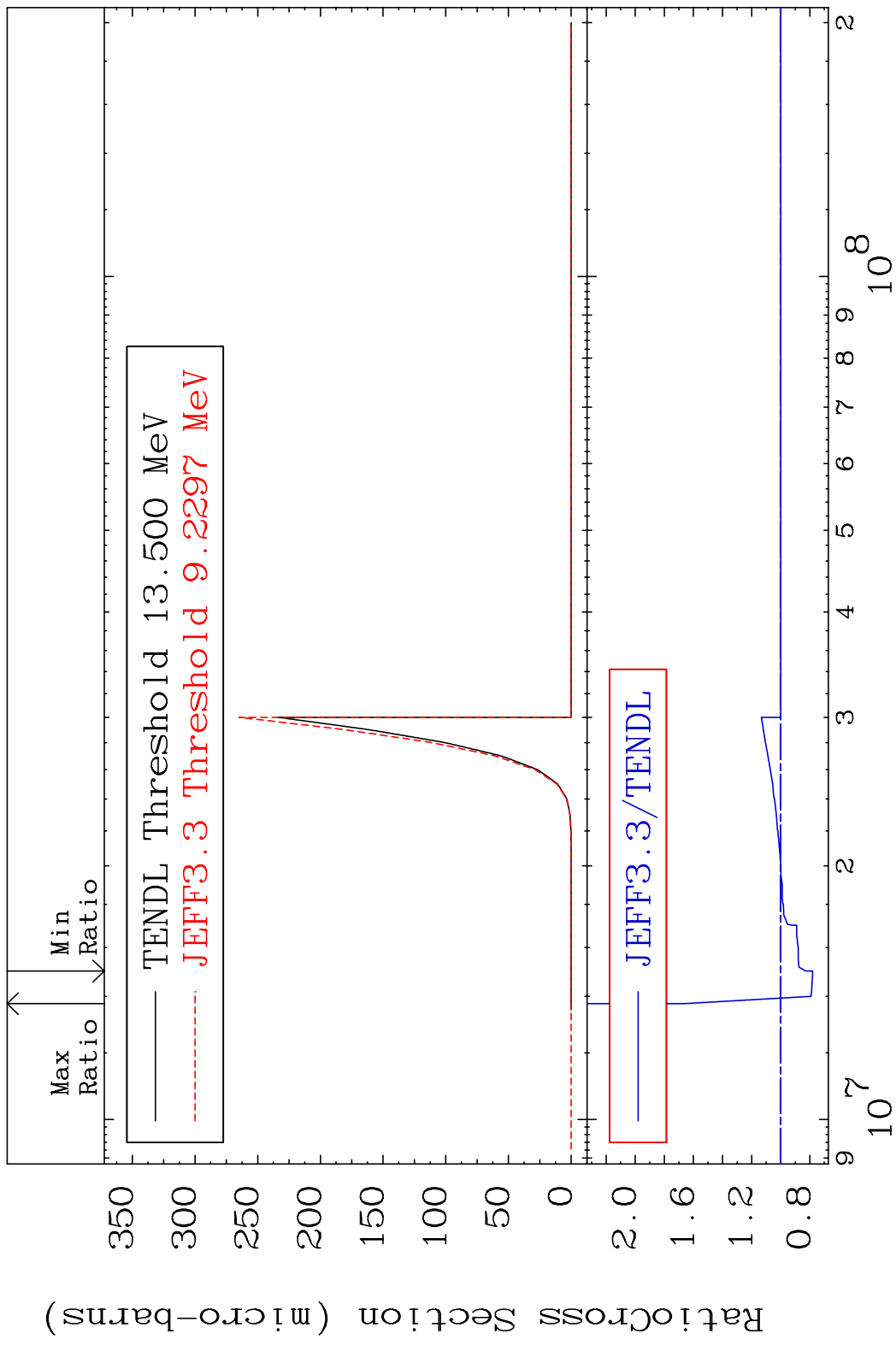
MAT 5247 (n, d):51-Sb-126m1 52-Te-127m
 Radionuclide Production Cross Section 180.01 mb 67.02 %



MAT 5247 (n, d):51-Sb-126m2 52-Te-127m
 Radionuclide Production Cross Section 69.89 %

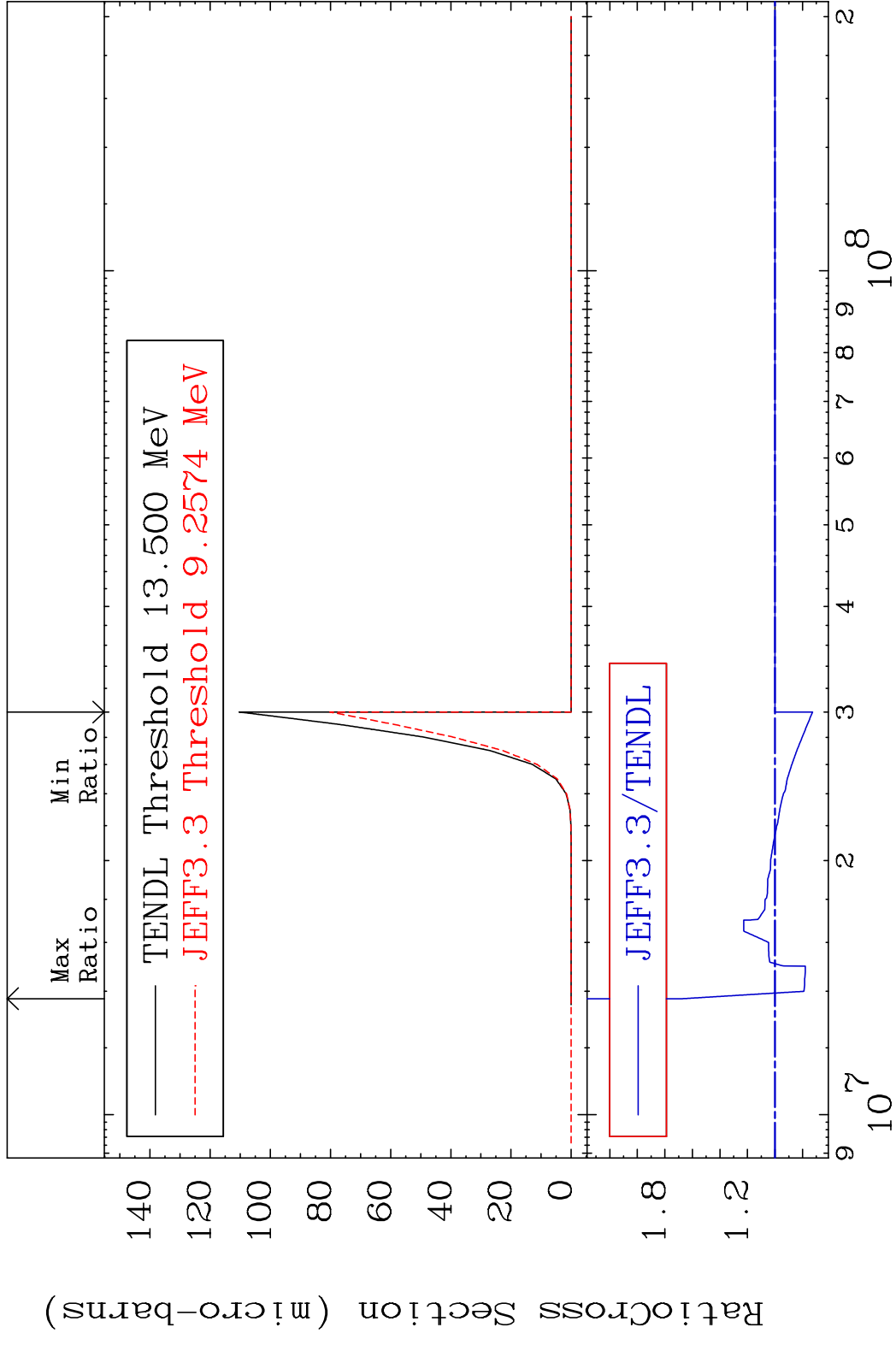


MAT 5247 (n, He-3):50-Sn-125g 52-Te-127m
 Radionuclide Production Cross Section to 67.61 %



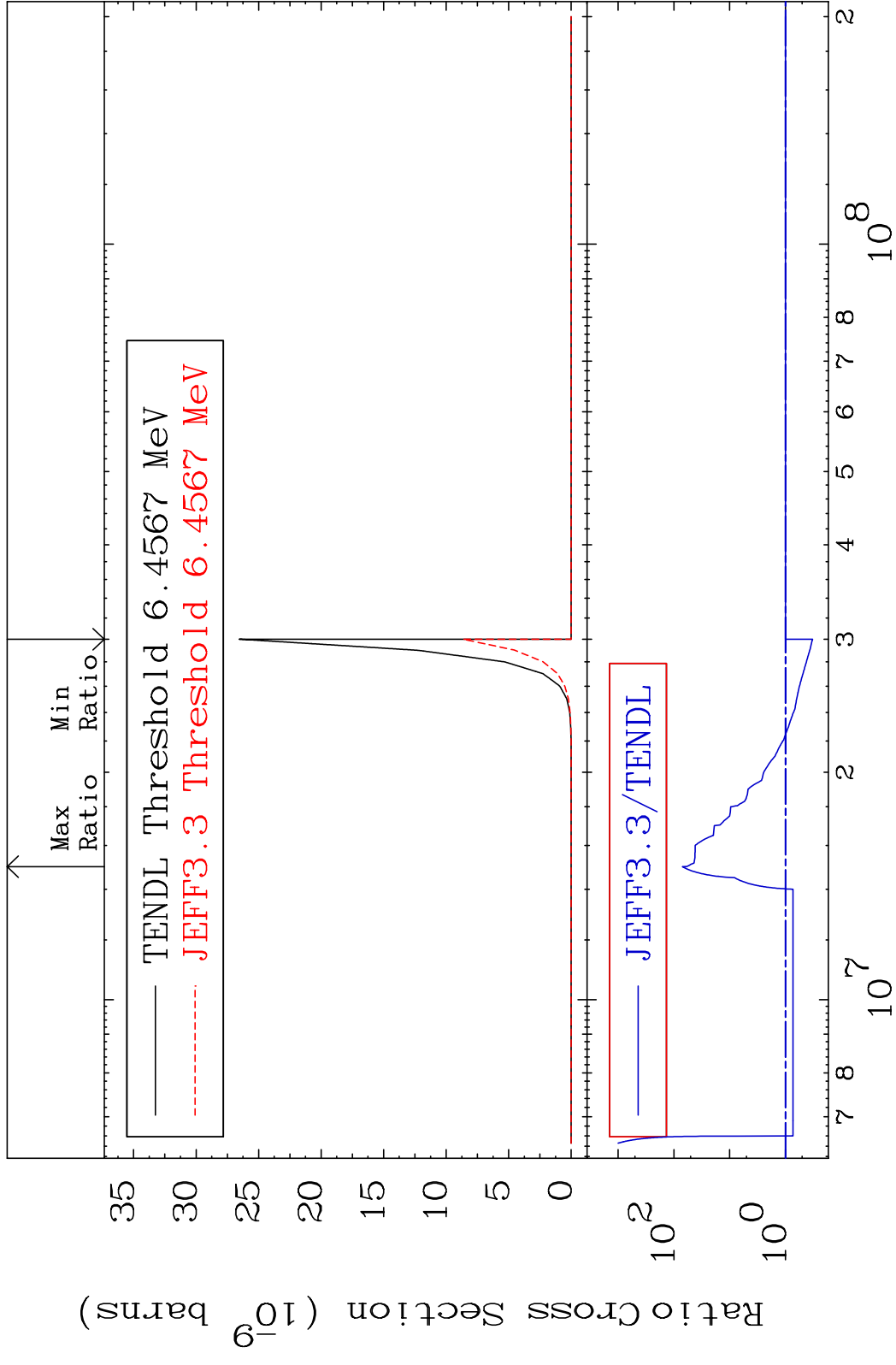
95 Incident Energy (eV) 52-Te-127m

MAT 5247 (n, He-3) : 50-Sn-125m1 52-Te-127m
 Radionuclide Production Cross Section 67.30 %

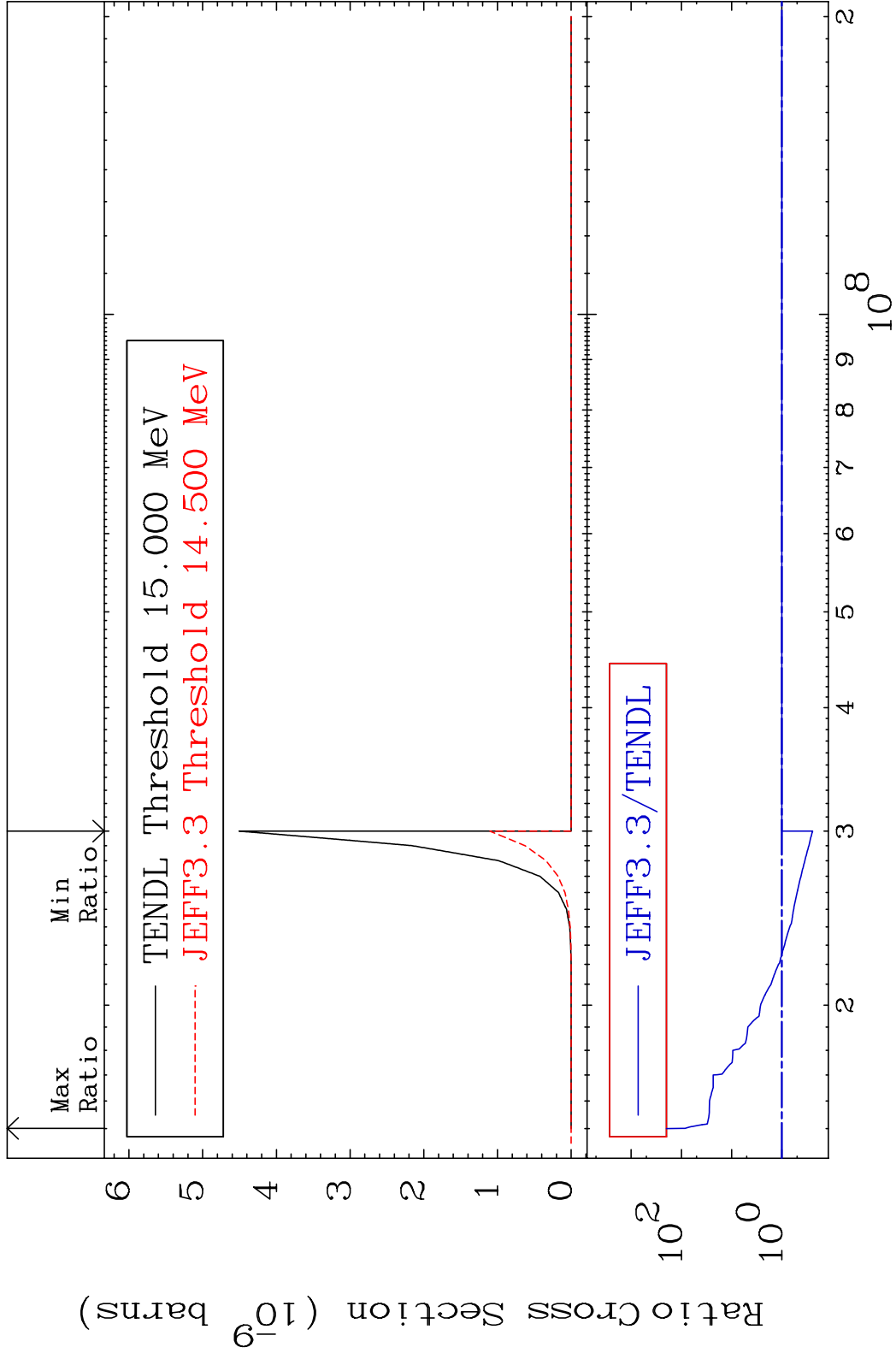


96 Incident Energy (eV) 52-Te-127m

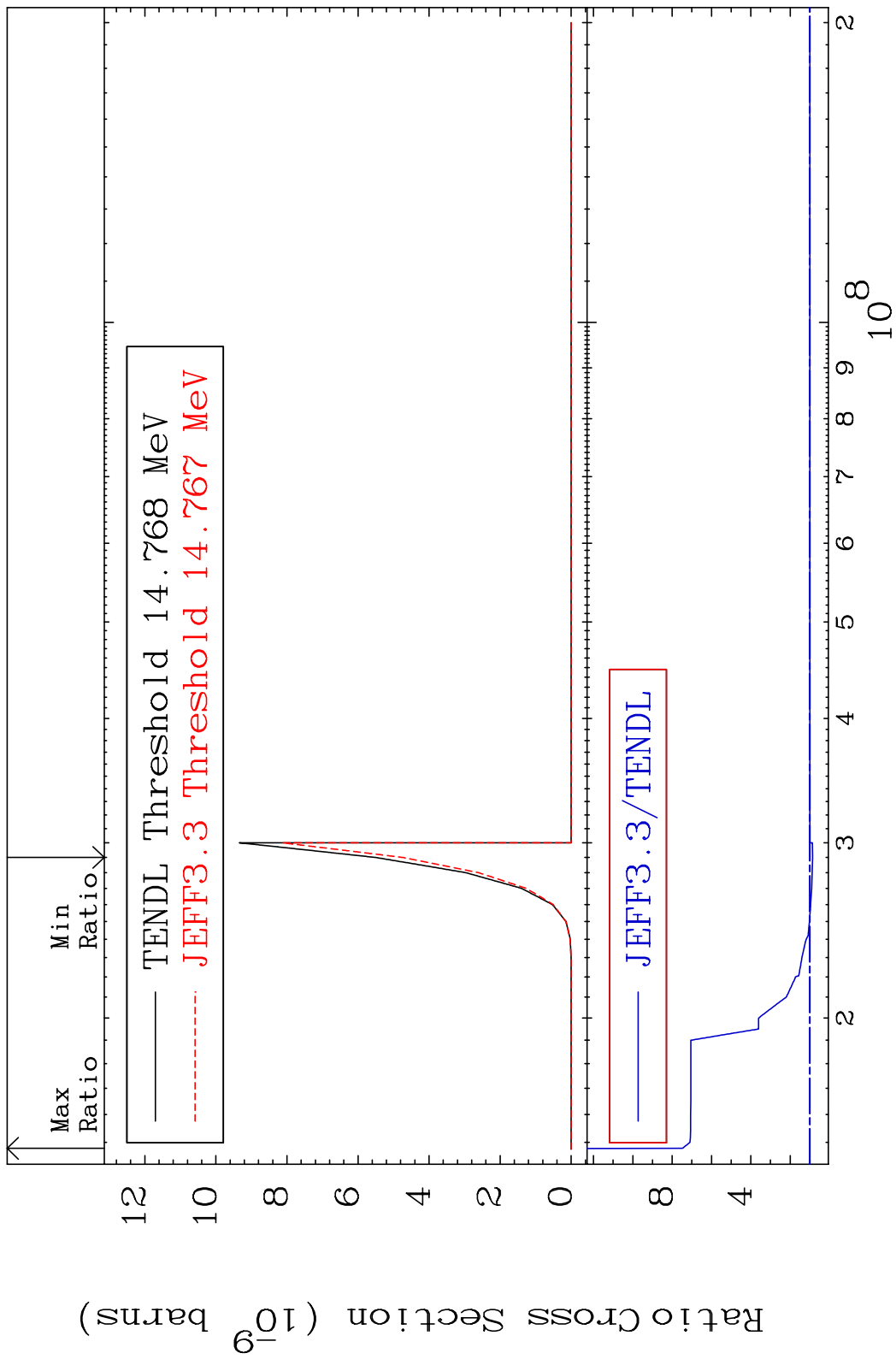
MAT 5247 (n,p) α :49-In-123g 52-Te-127m
 Radionuclide Production Cross Section 6944. %



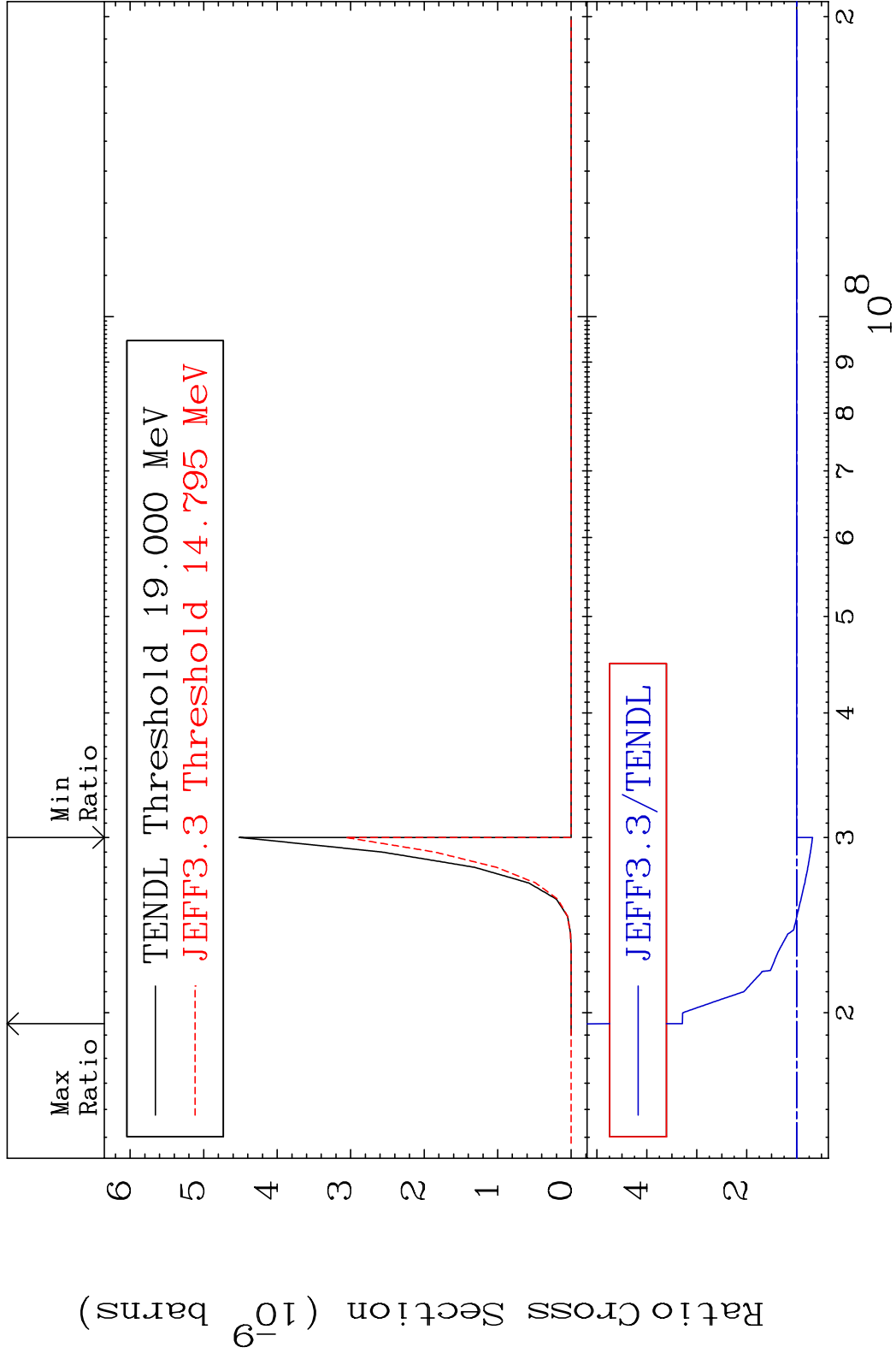
MAT 5247 (n, p) α : 49-In-123m1 52-Te-127m
 Radionuclide Production Cross Section to 9464. %



MAT 5247 (n, p) d:50-Sn-125g 52-Te-127m
 Radionuclide Production Cross Section Ratio 648.2 %



MAT 5247 (n, p) d:50-Sn-125m1 52-Te-127m
 Radionuclide Production Cross Section 31e03i d10 228.9 %



100 Incident Energy (eV) 52-Te-127m