

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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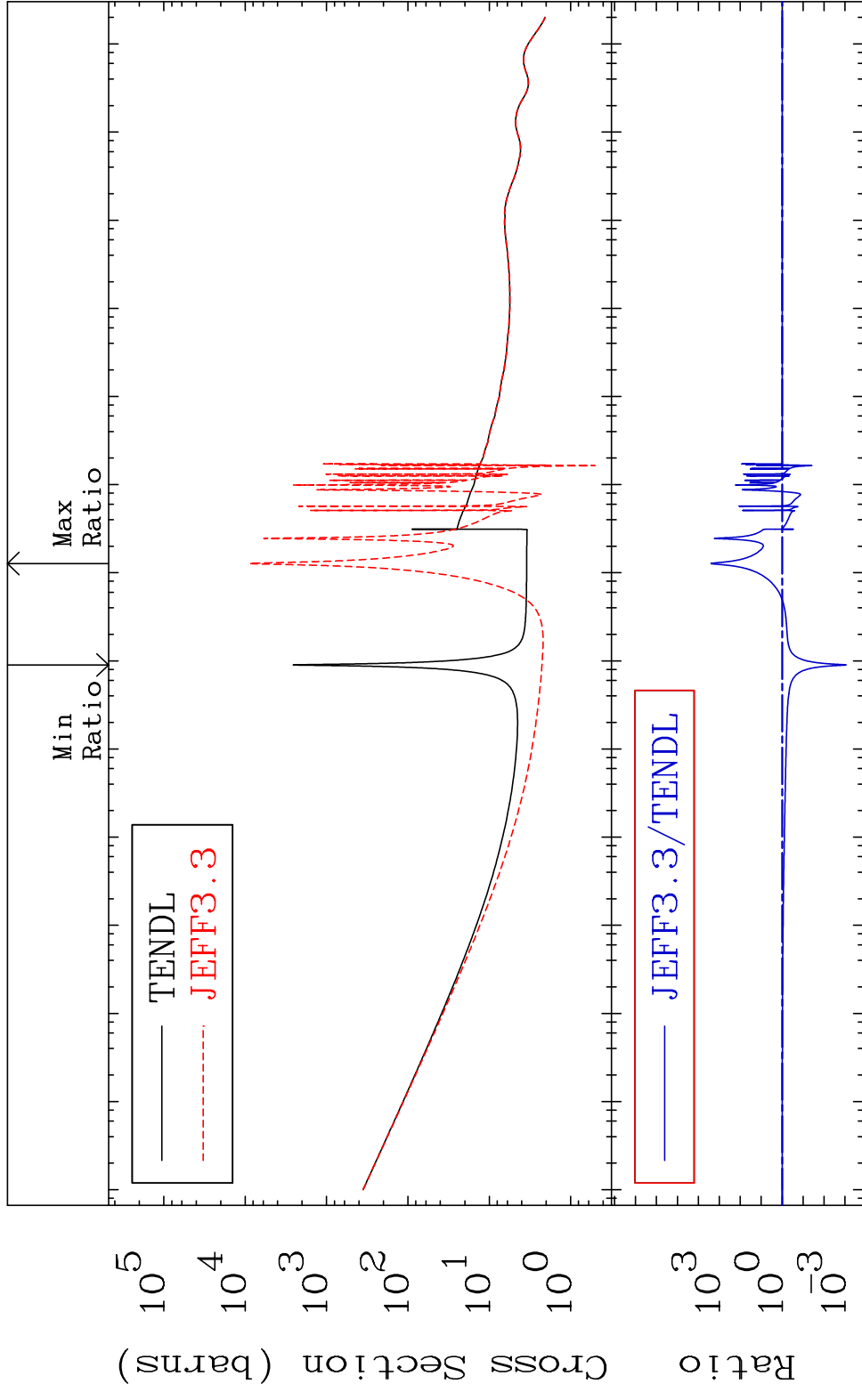
Press Mouse Button to Start

MAT 5143

51-Sb-127

Total

Cross Section -99.91 To 9999. %



1

Incident Energy (eV)

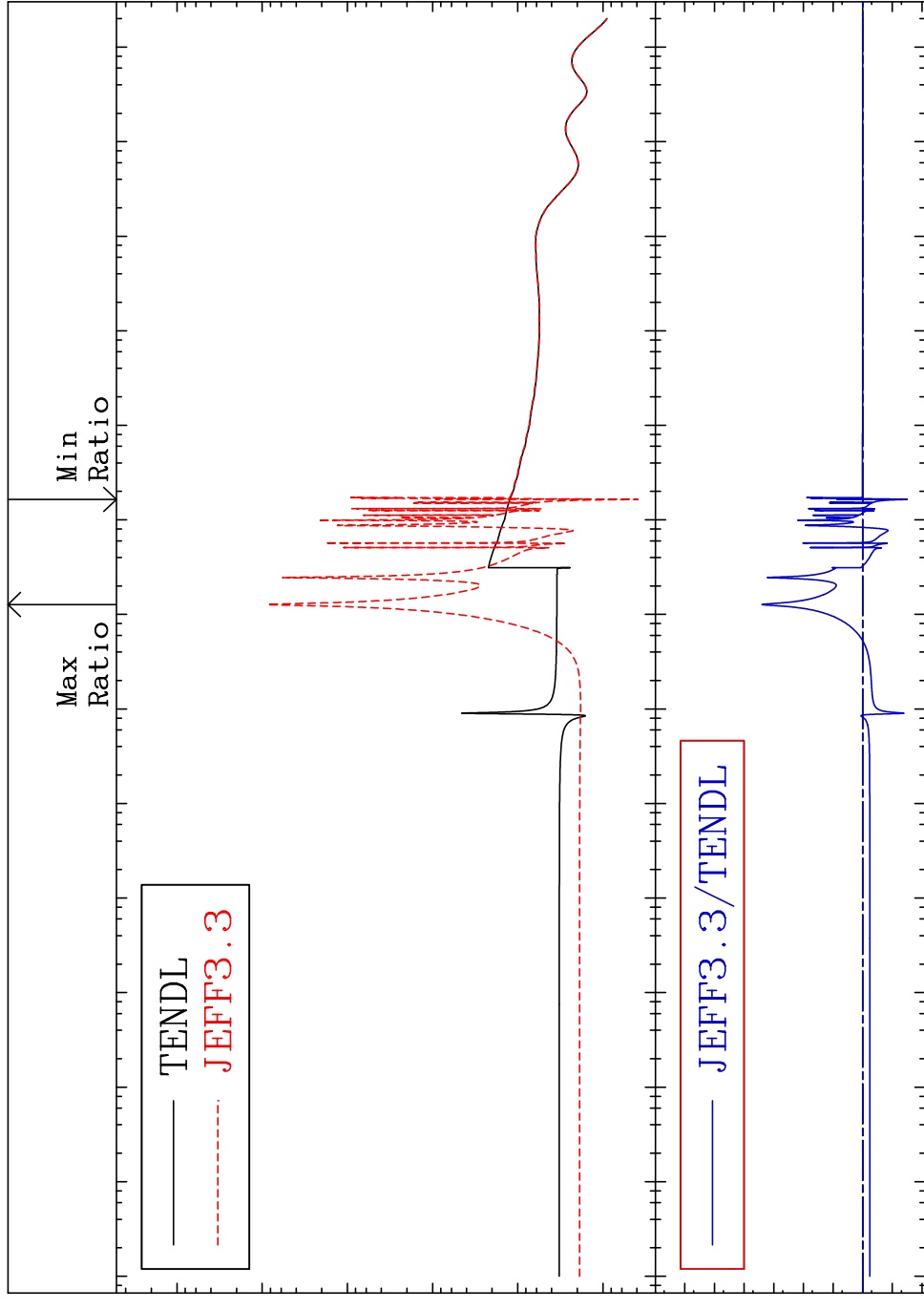
51-Sb-127

MAT 5143

51-Sb-127

Elastic

Cross Section -96.84 To 9999. %



10⁵
10⁴
10³
10²
10¹
10⁰
Ratio
10³
10⁰

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

2

Incident Energy (eV)

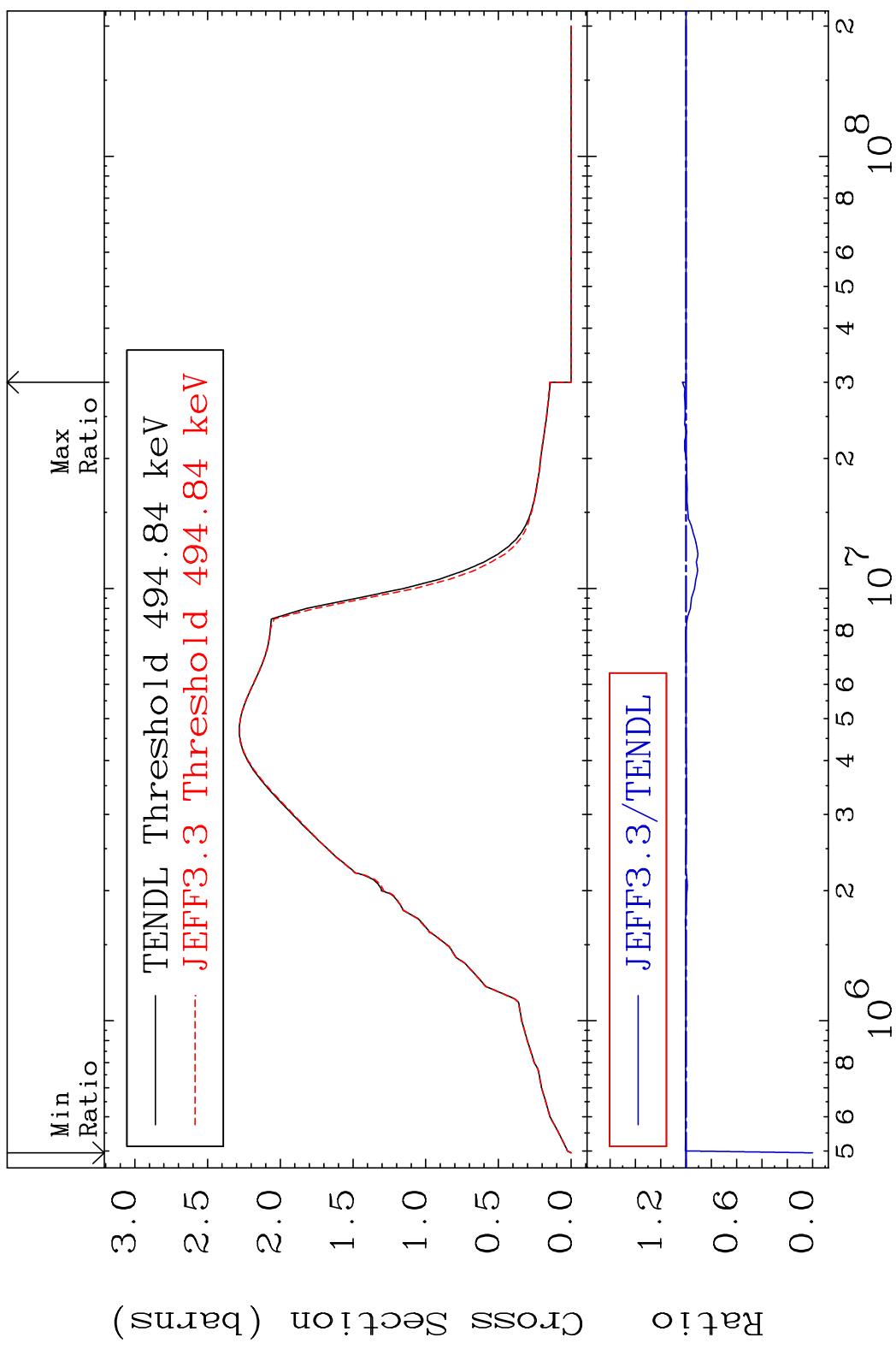
51-Sb-127

MAT 5143

Inelastic

51-Sb-127

Cross Section -100.0 To 2.893 %



3

Incident Energy (eV)

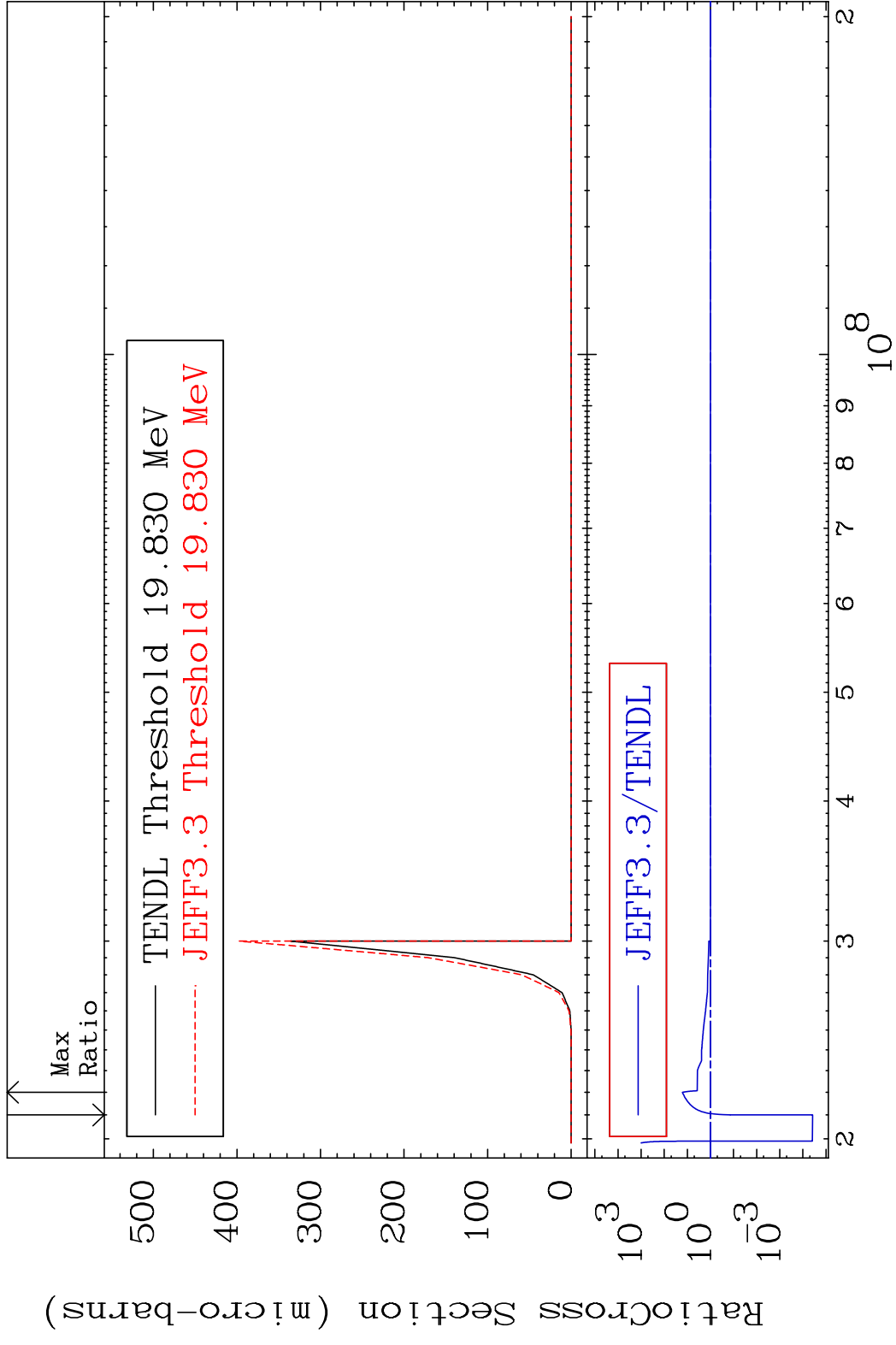
51-Sb-127

MAT 5143

(n,2n) d

51-Sb-127

Cross Section -100.0 To 1538. %

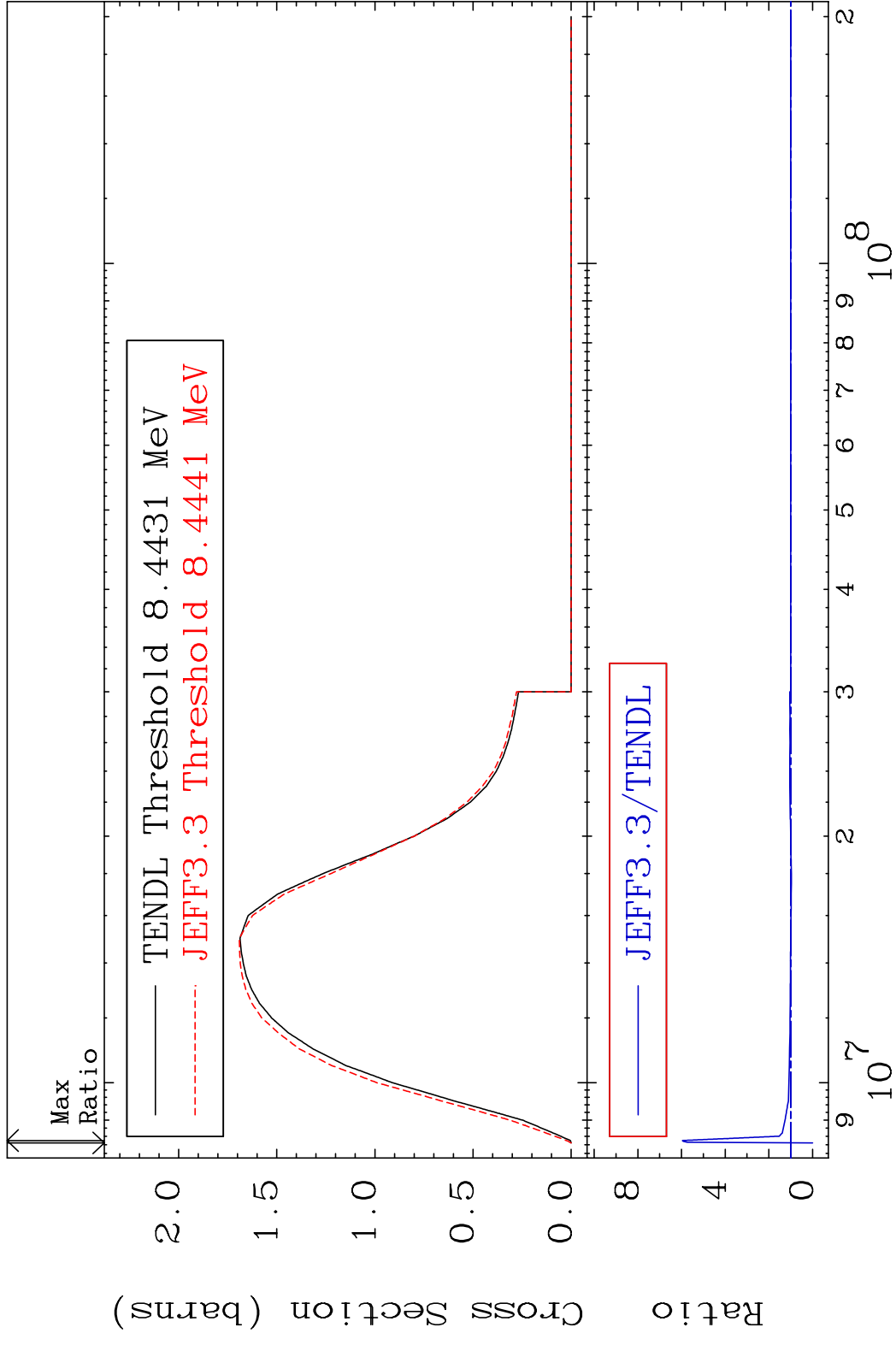


MAT 5143

(n,2n)

51-Sb-127

Cross Section -100.0 To 496.1 %



5

Incident Energy (eV)

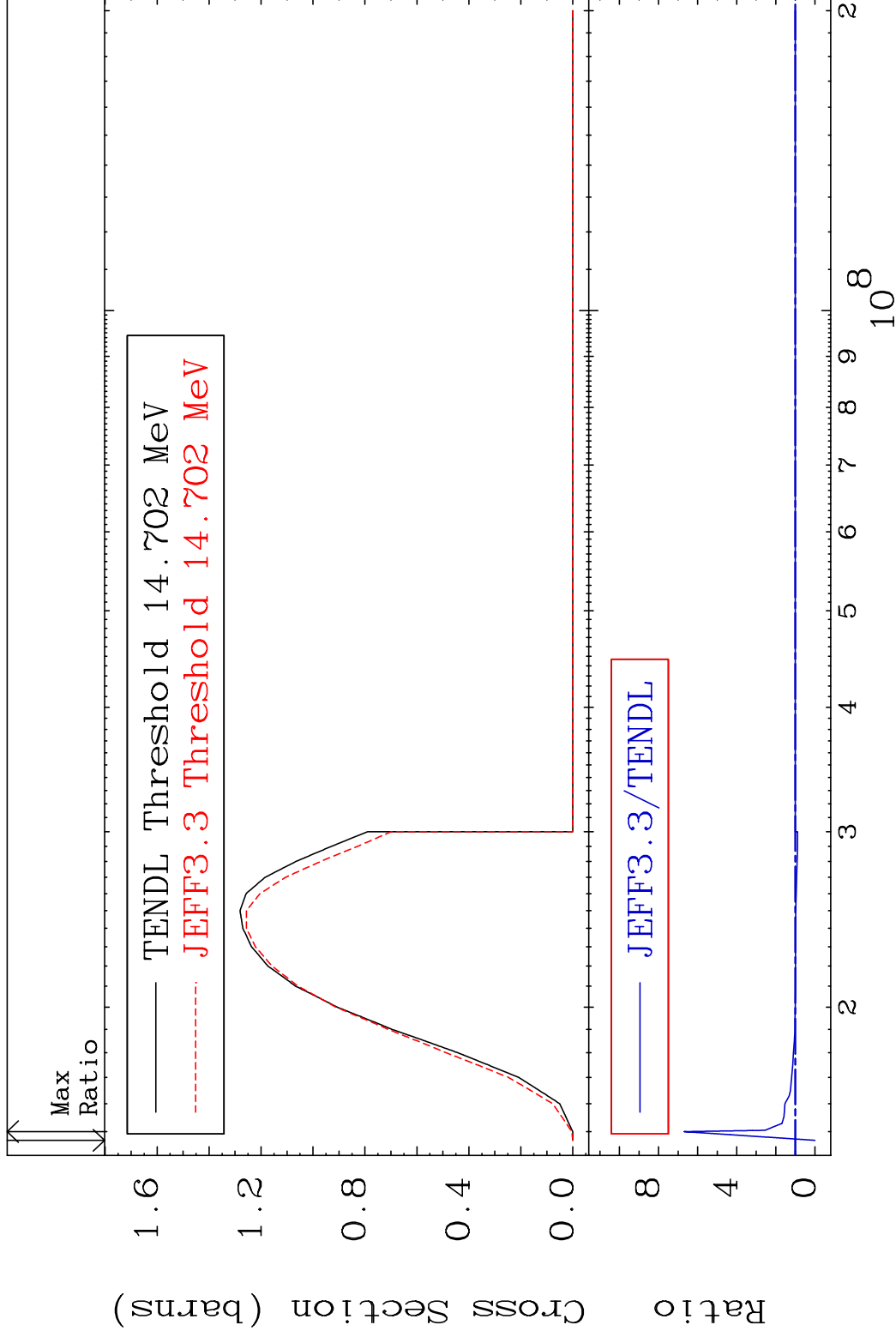
51-Sb-127

MAT 5143

(n,3n)

51-Sb-127

Cross Section -100.0 To 568.1 %



6

Incident Energy (eV)

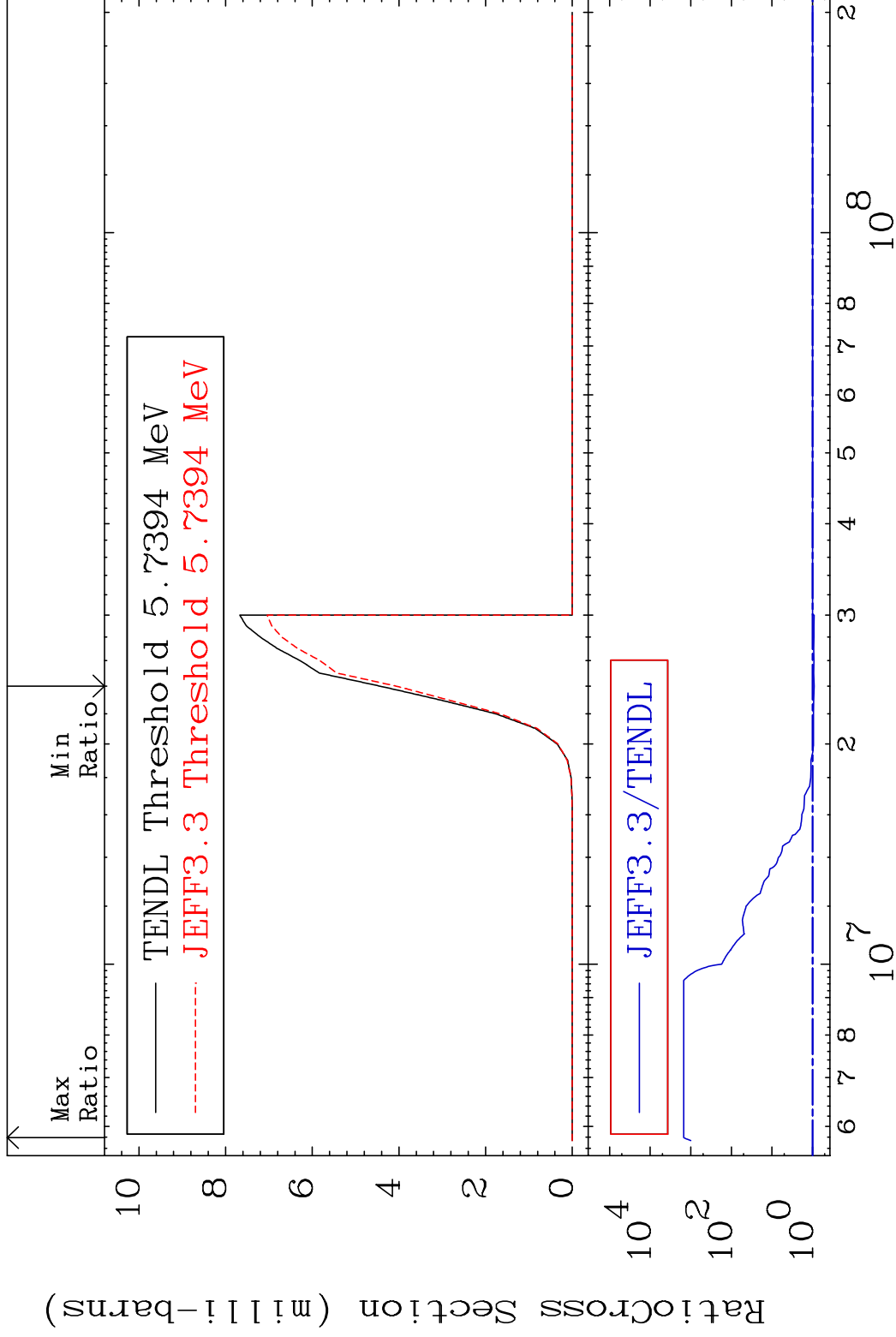
51-Sb-127

MAT 5143

(n, n') α

51-Sb-127

Cross Section -8.459 To 9999. %



7

Incident Energy (eV)

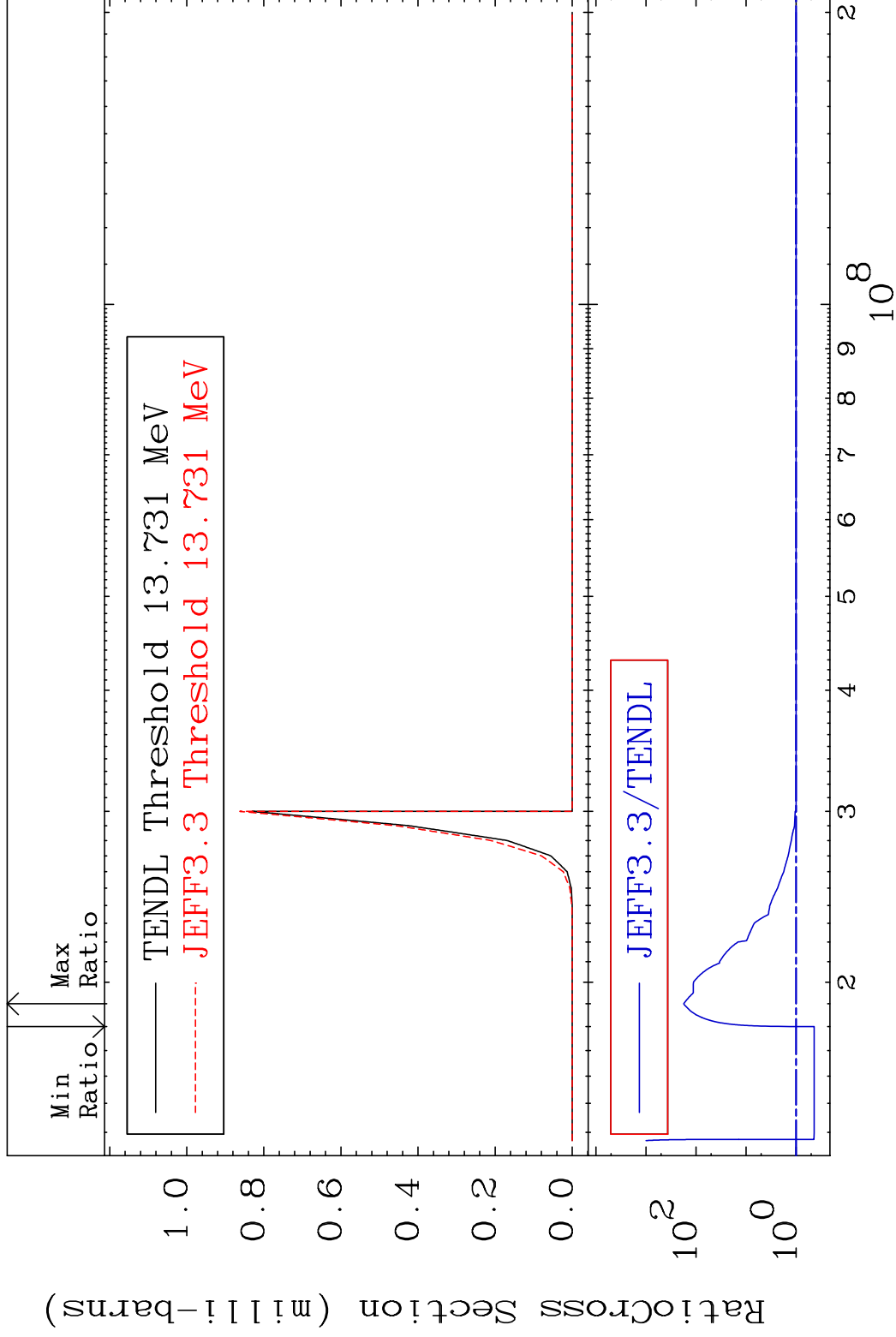
51-Sb-127

MAT 5143

(n,2n) α

51-Sb-127

Cross Section -56.38 To 9999. %



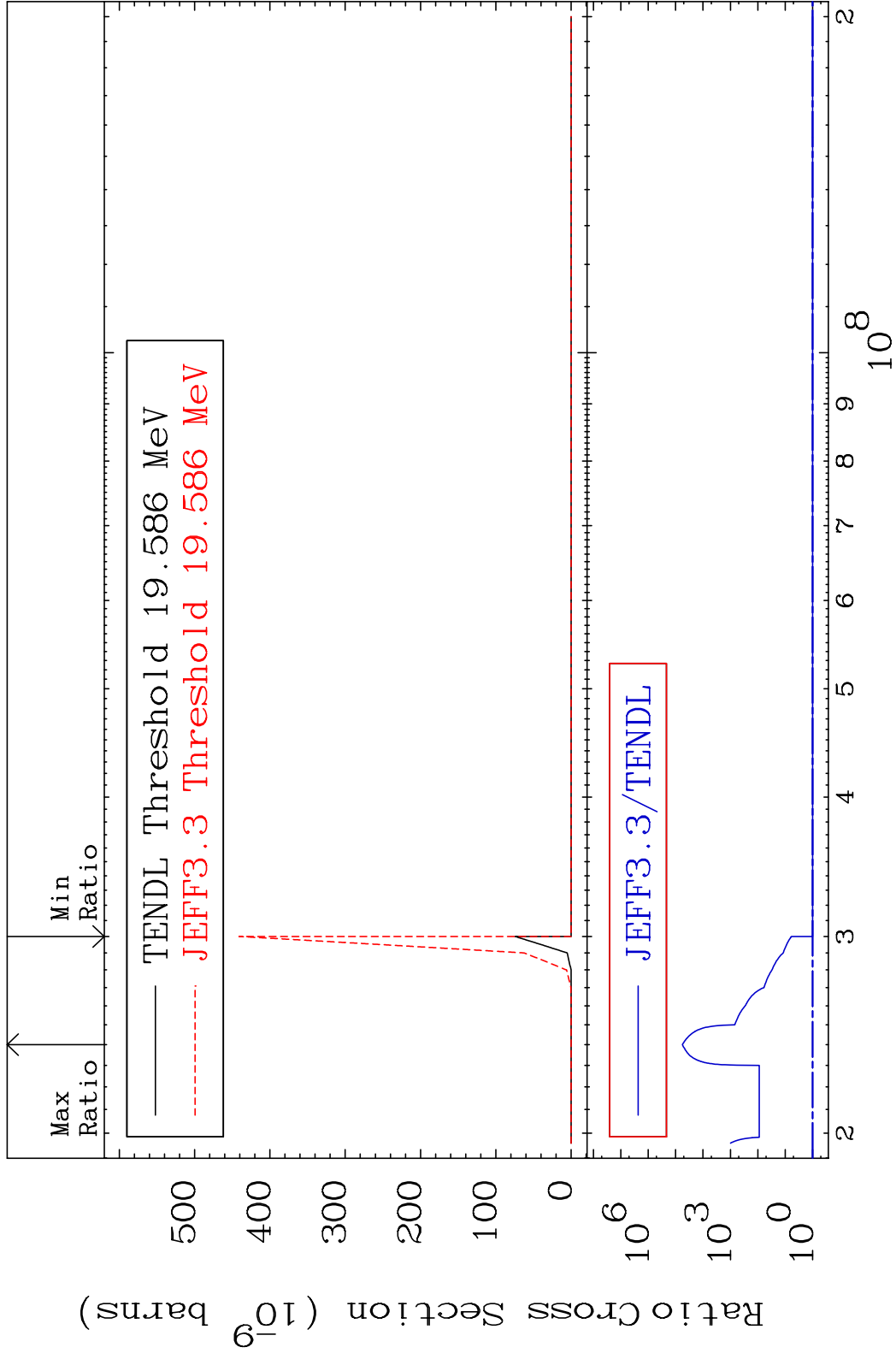
MAT 5143

(n,3n) α

51-Sb-127

Cross Section 0.000

To 9999. %

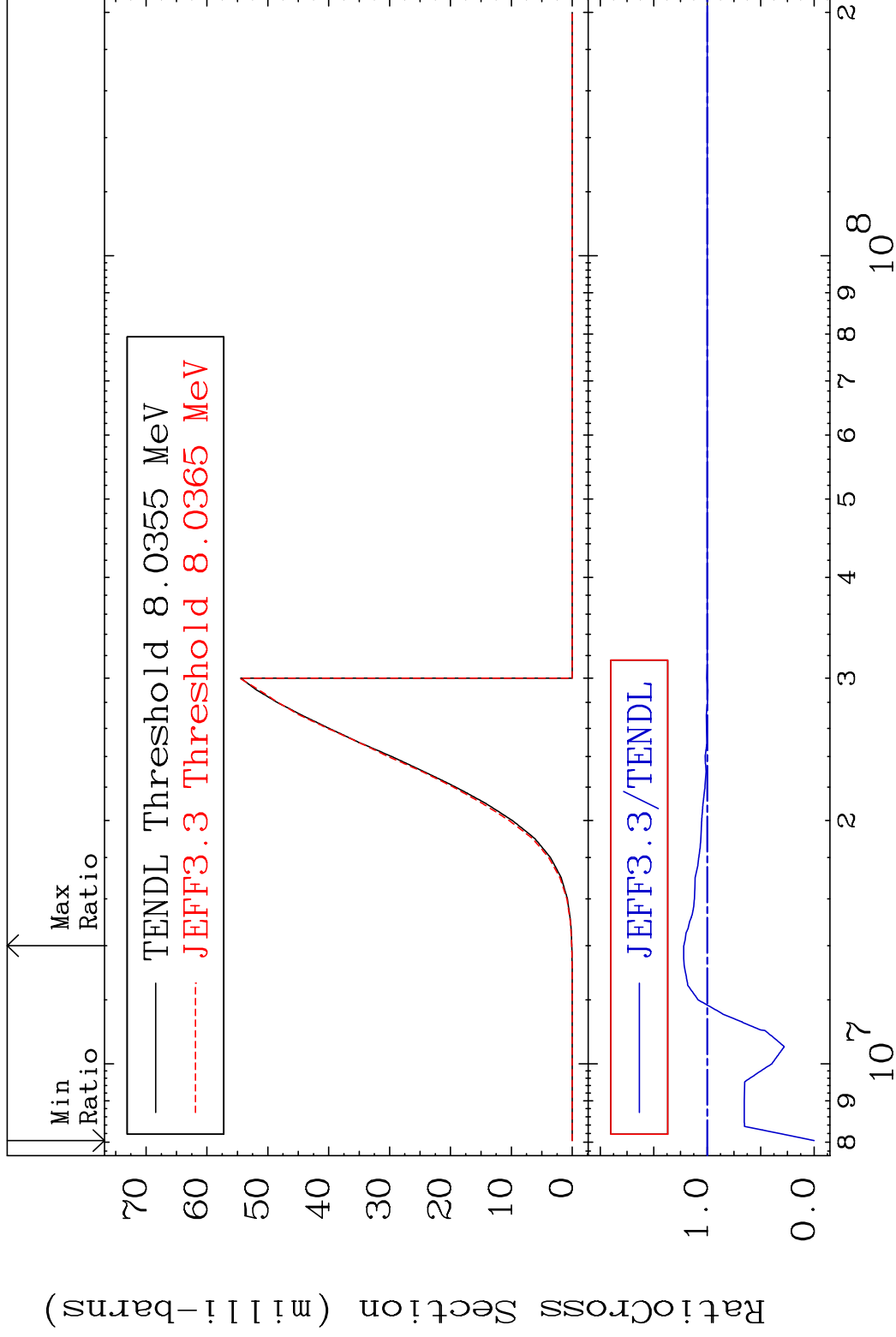


MAT 5143

(n, n') p

51-Sb-127

Cross Section -100.0 To 22.02 %



10

Incident Energy (eV)

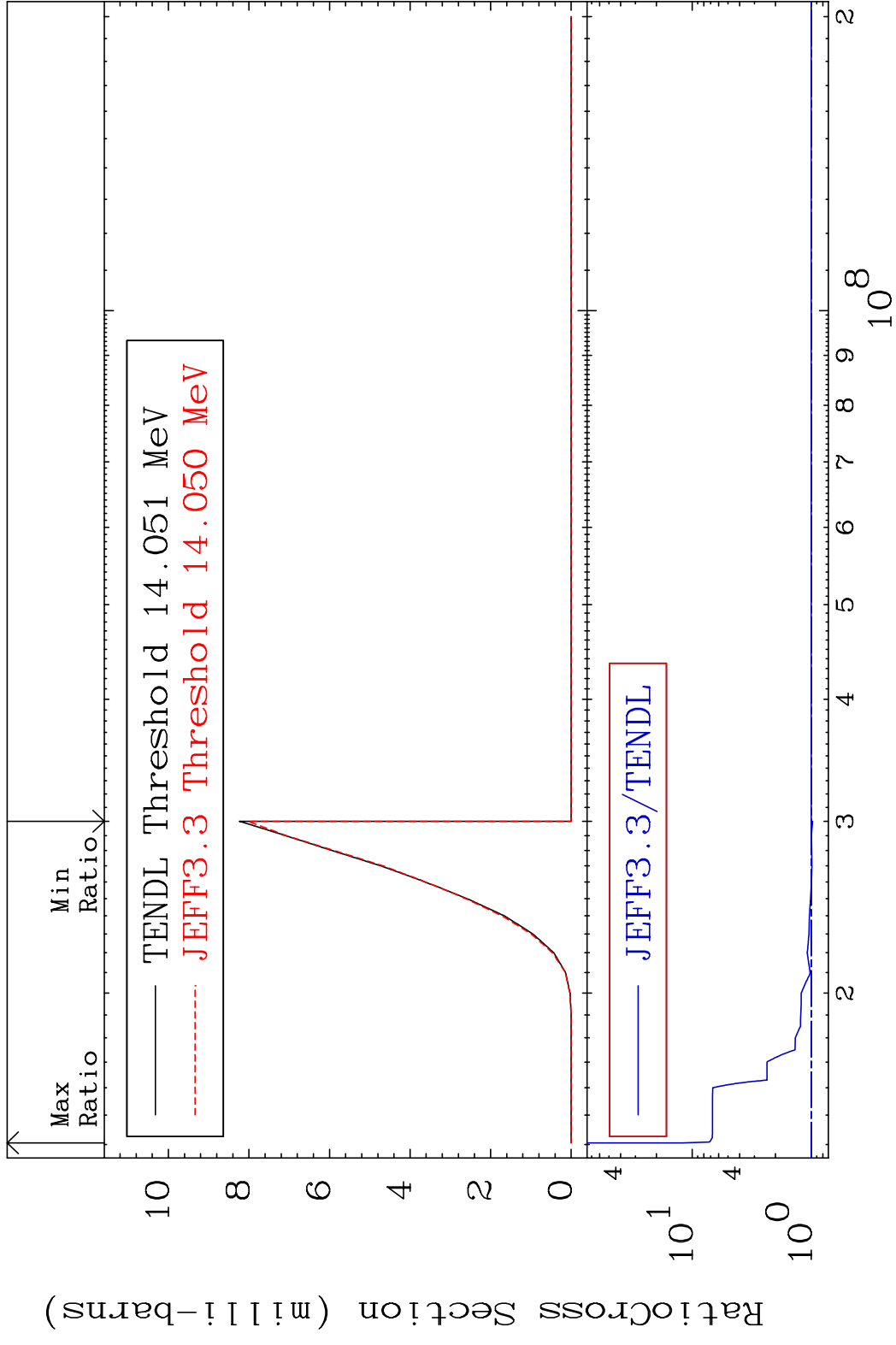
51-Sb-127

MAT 5143

(n, n') d

51-Sb-127

Cross Section -2.549 To 1109. %

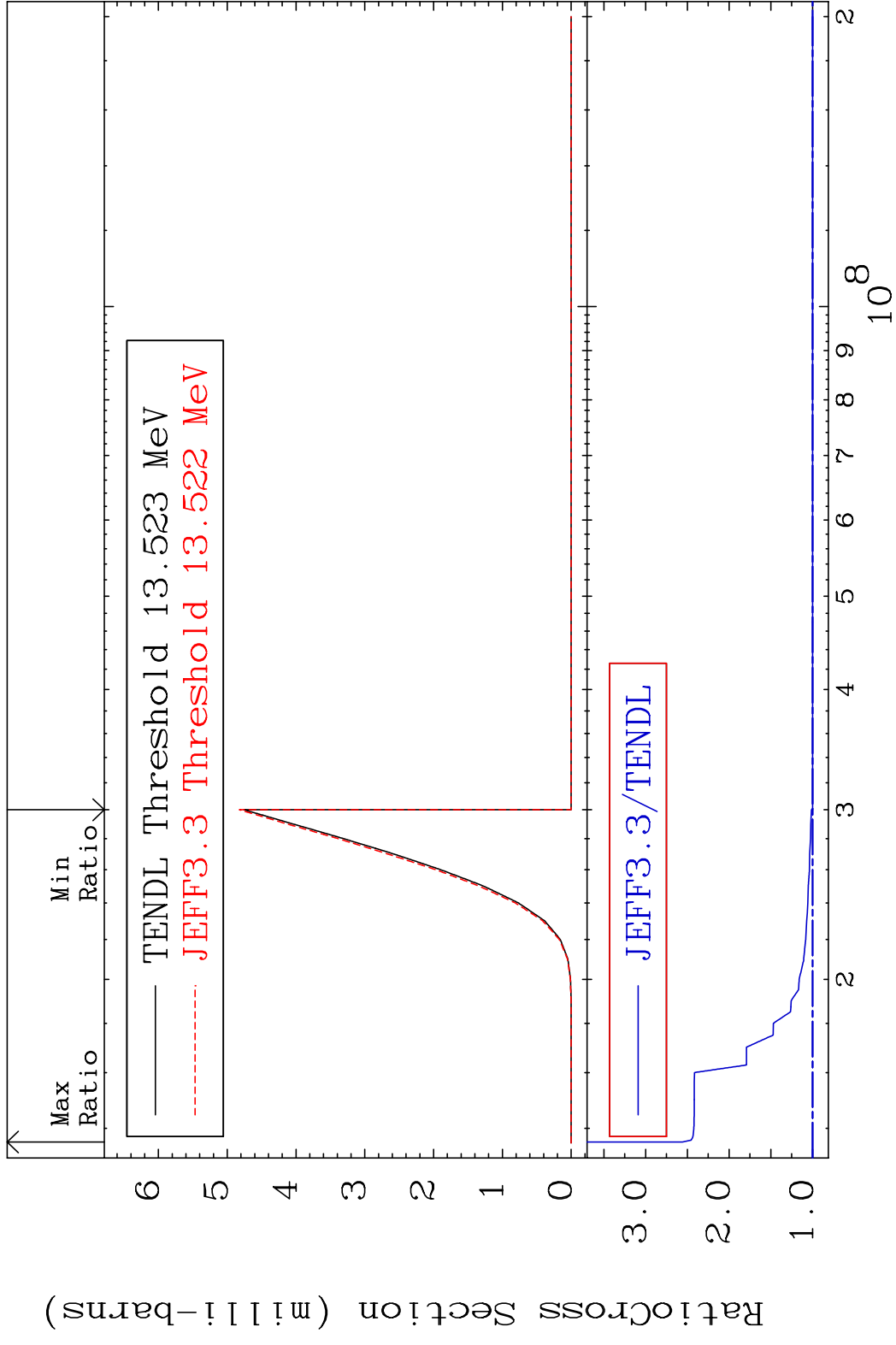


MAT 5143

(n, n') t

51-Sb-127

Cross Section 0.000 To 156.0 %



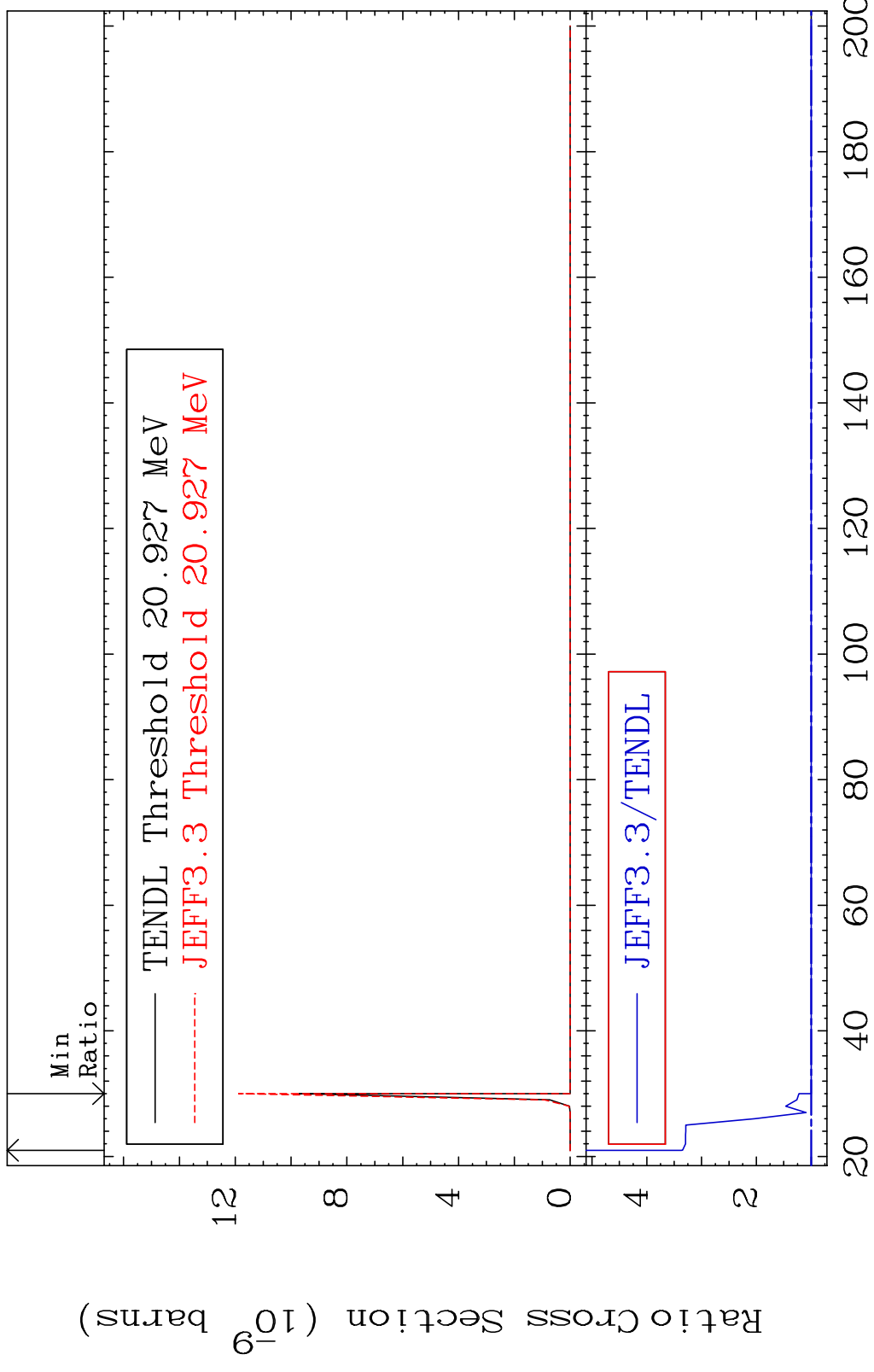
MAT 5143

(n,n') He-3

51-Sb-127

Cross Section 0.000

To 237.2 %

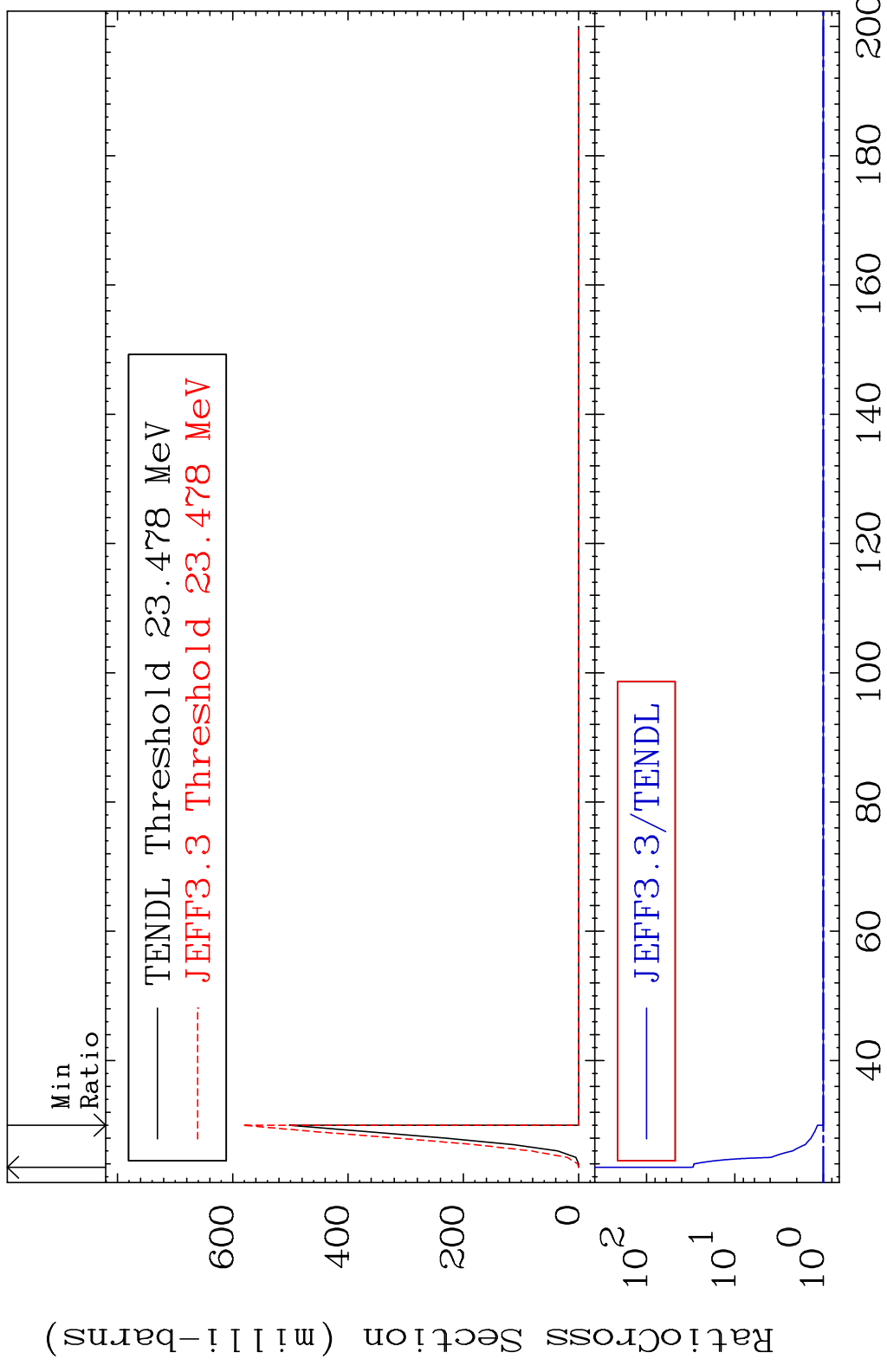


MAT 5143

(n,4n)

51-Sb-127

Cross Section 0.000 To 3010. %



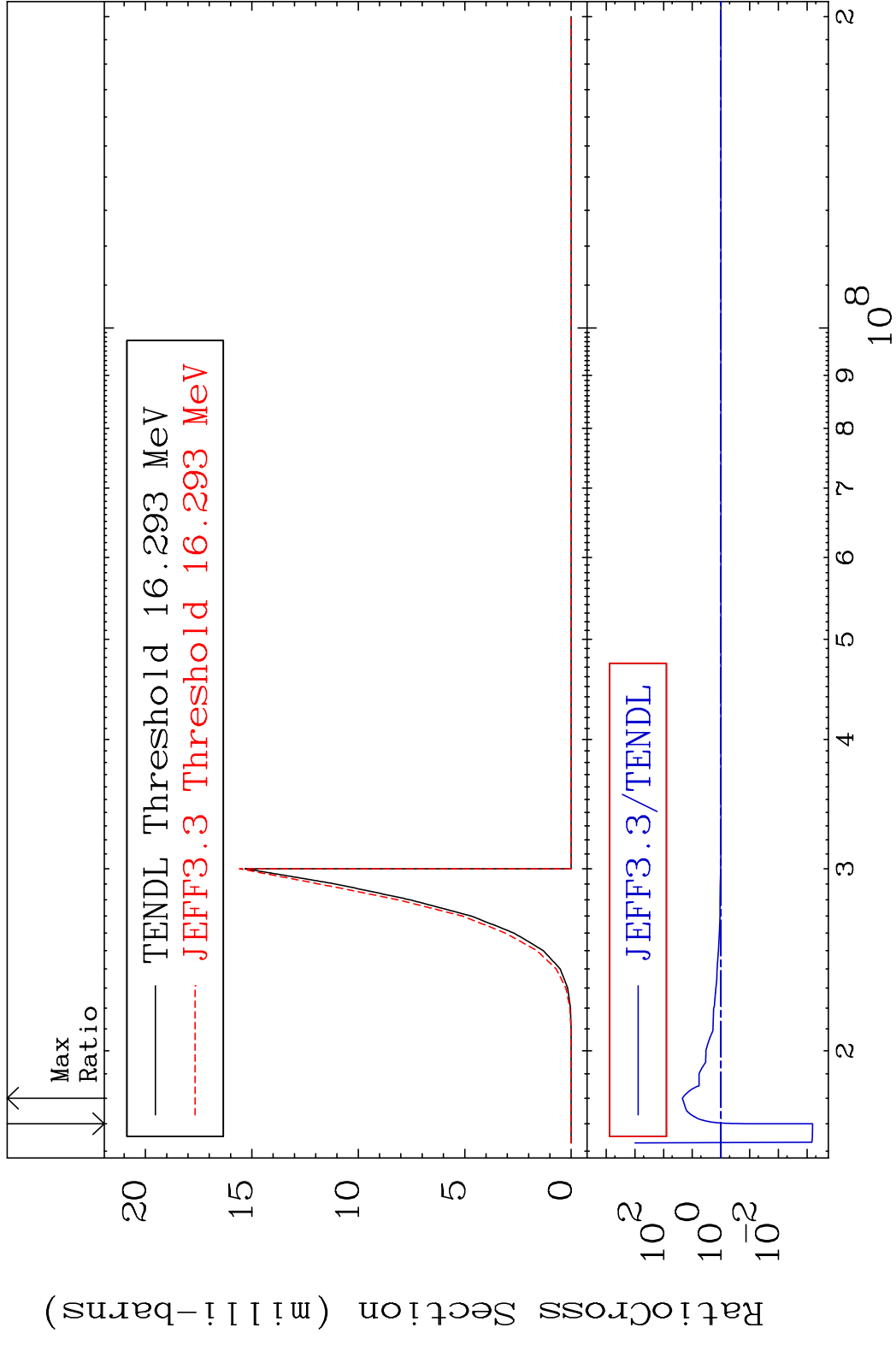
MAT 5143

(n,2n) p

51-Sb-127

Cross Section

-99.94 To 2120. %



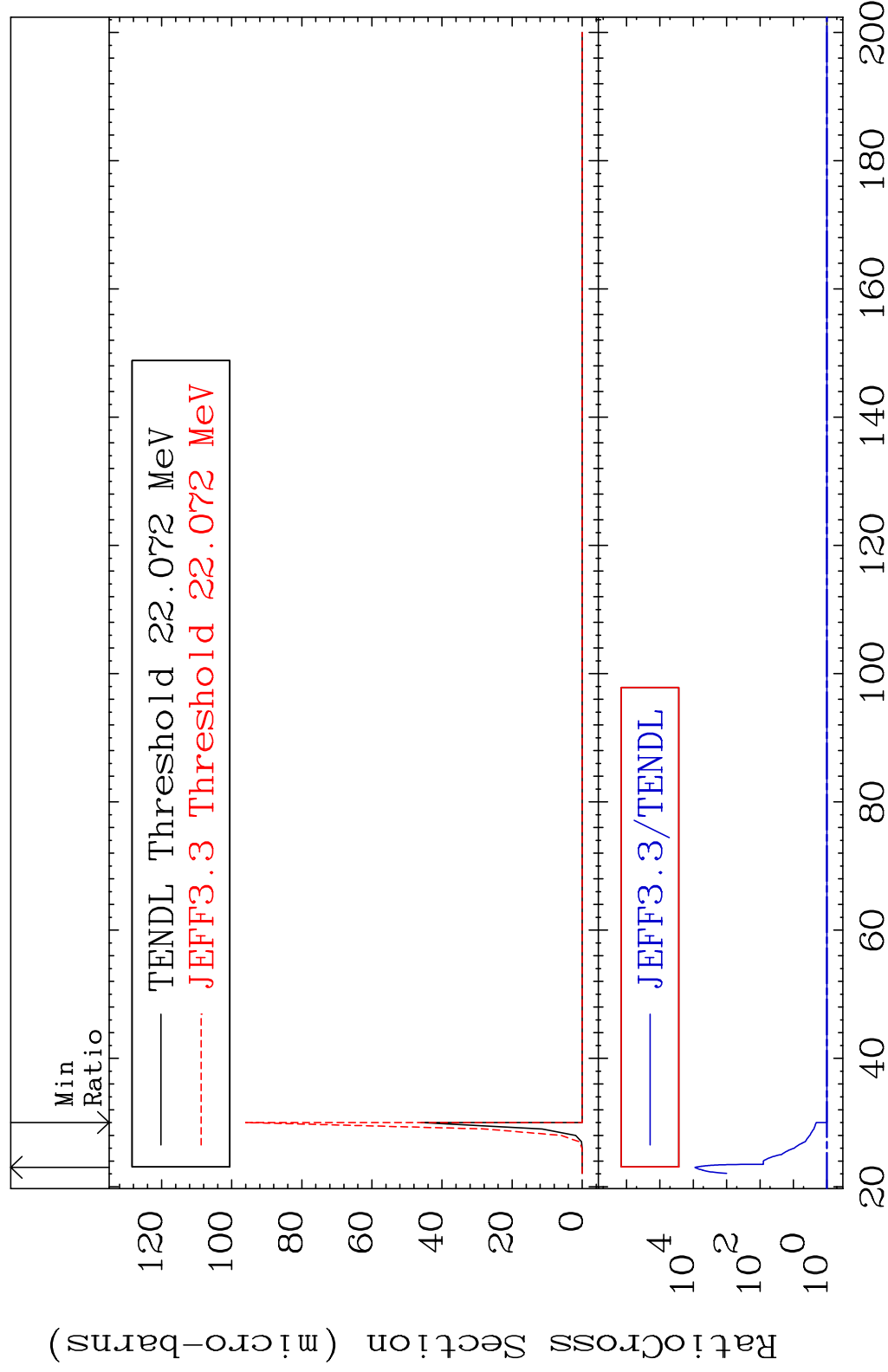
MAT 5143

(n,3n) p

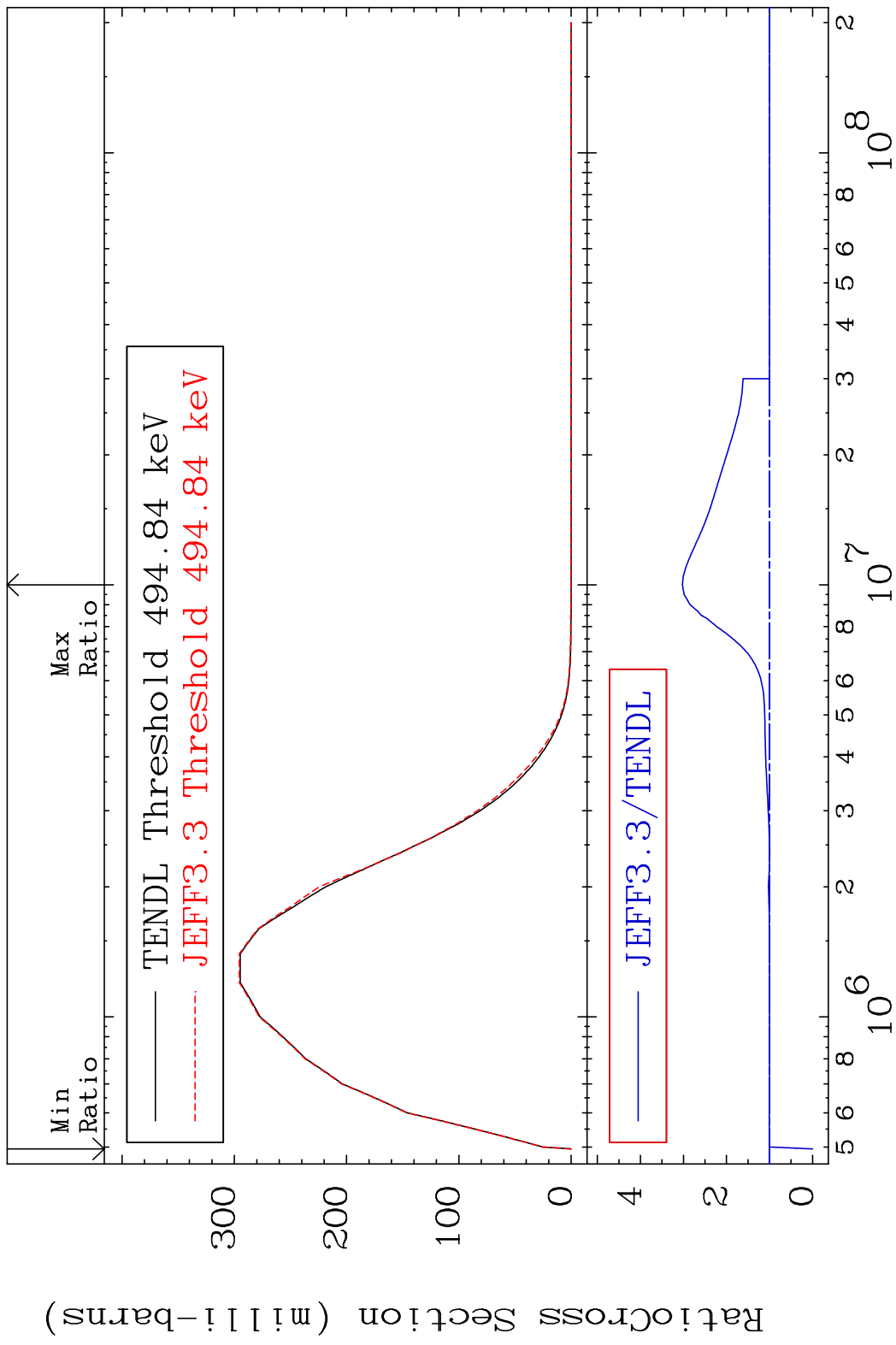
51-Sb-127

Cross Section 0.000

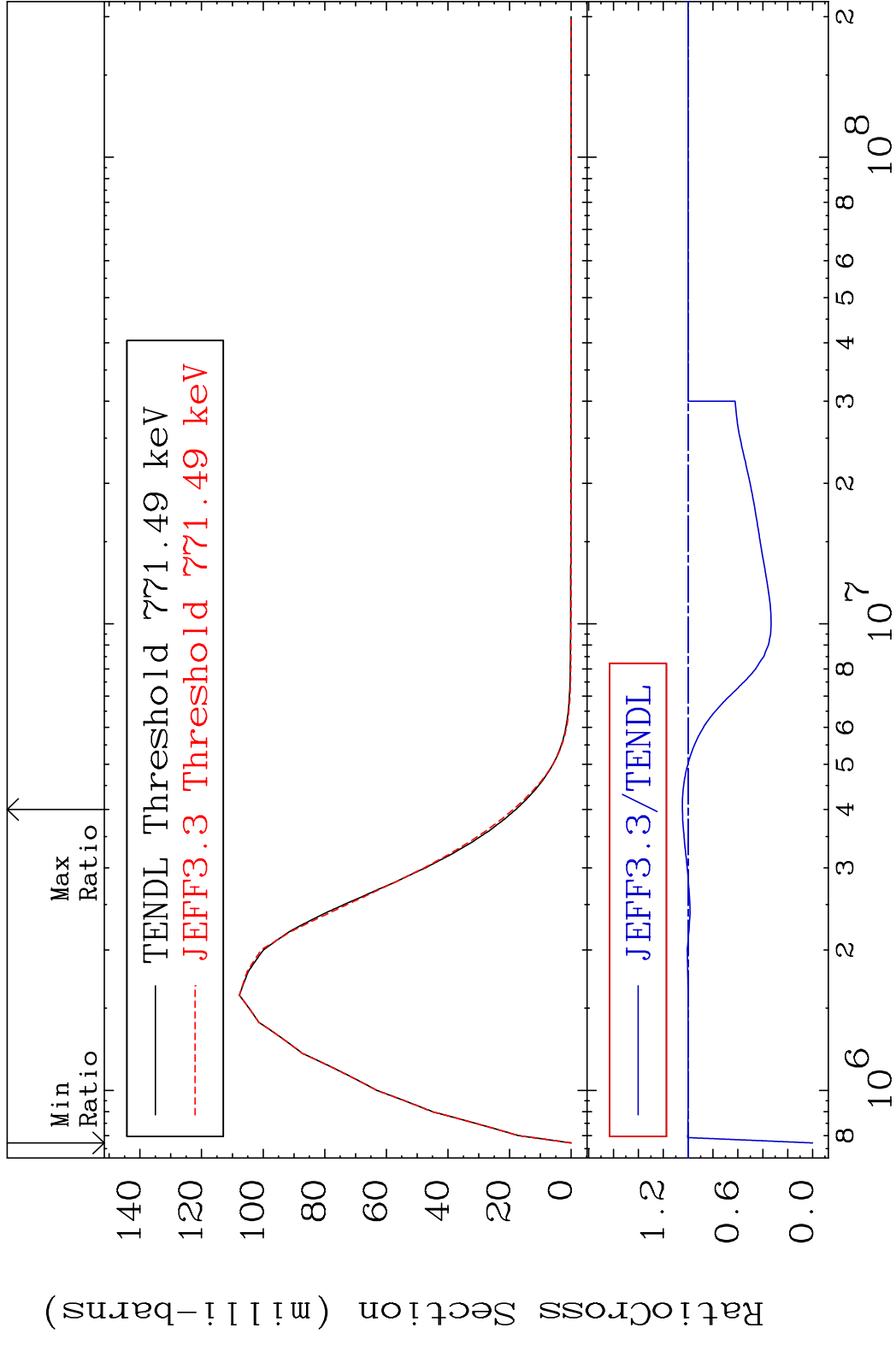
To 9999. %



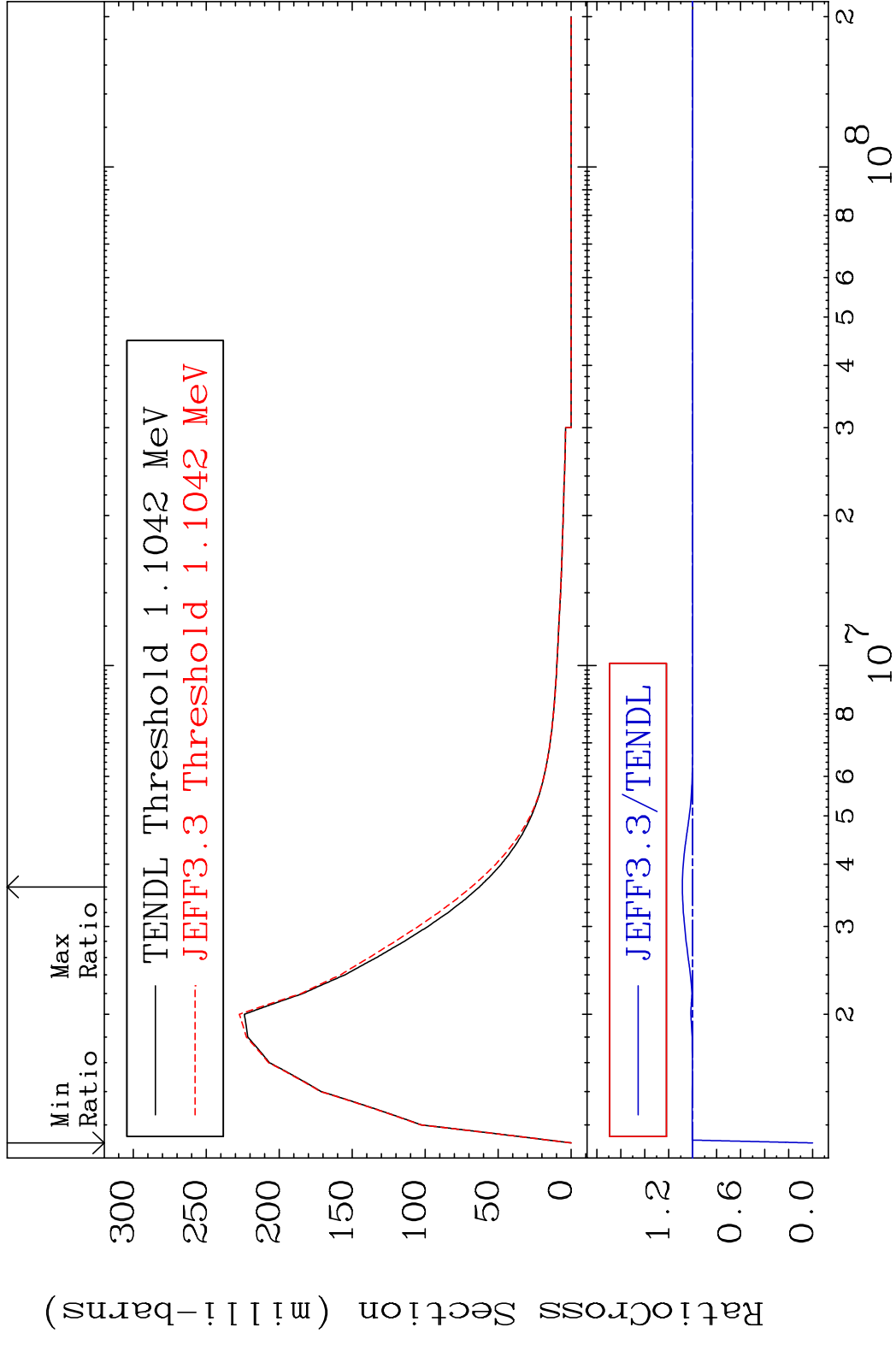
MAT 5143 MT= 51 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 202.6 %



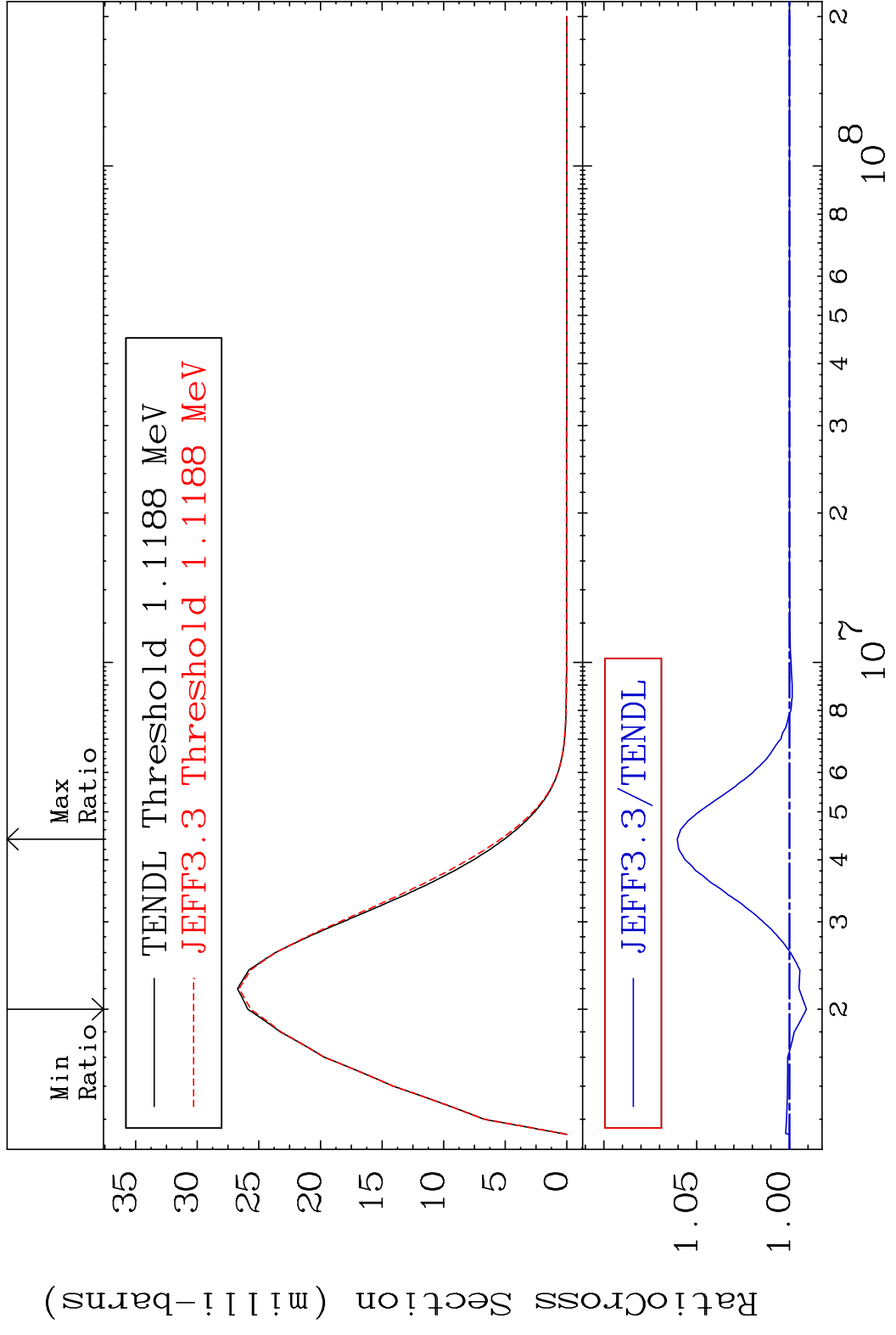
MAT 5143 MT= 52 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 4.649 %



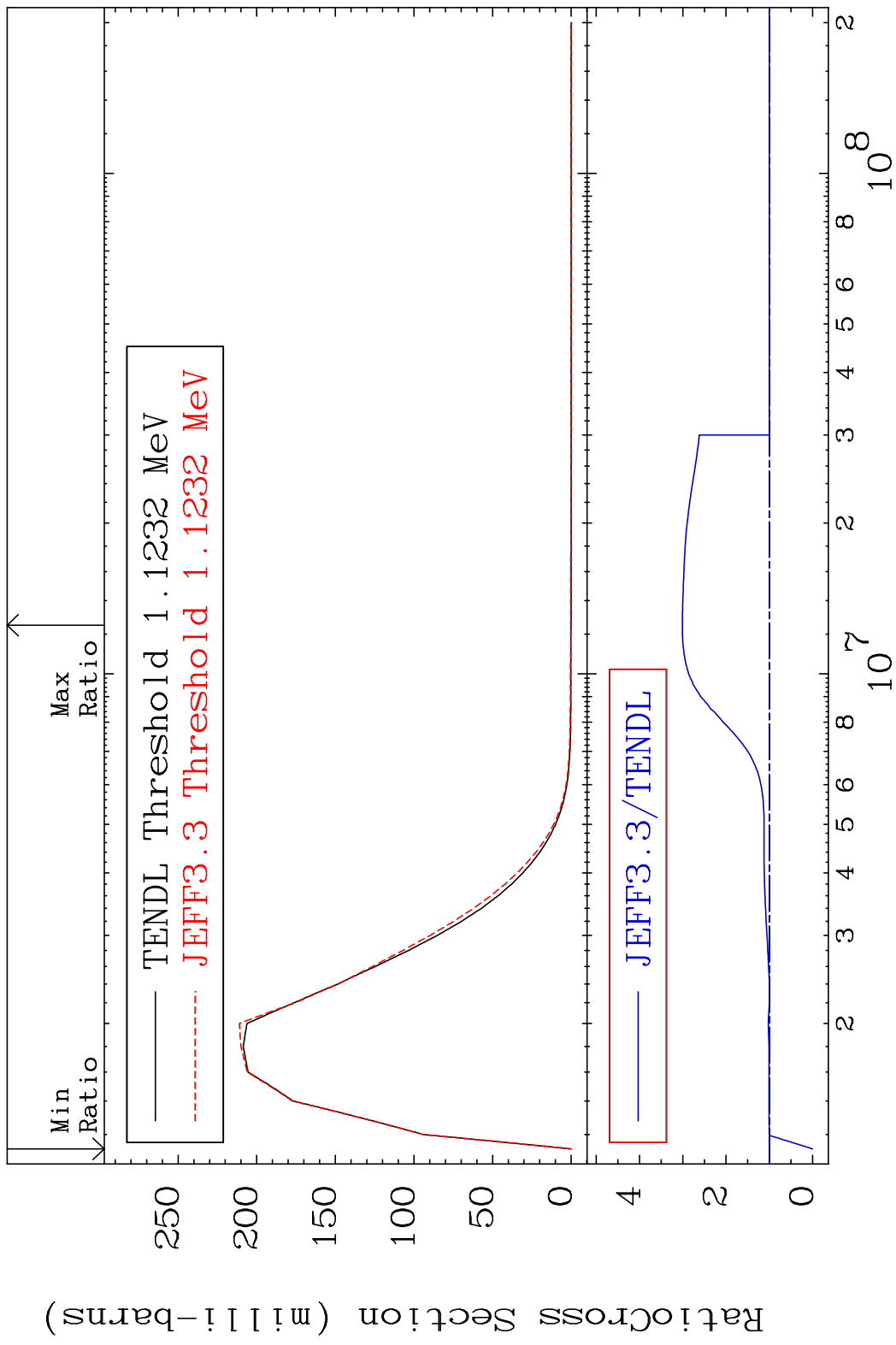
MAT 5143 MT= 53 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 8.623 %



MAT 5143 MT= 54 (n, n') Level 51-Sb-127
 Cross Section -0.909 To 6.052 %



MAT 5143 MT= 55 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 201.0 %

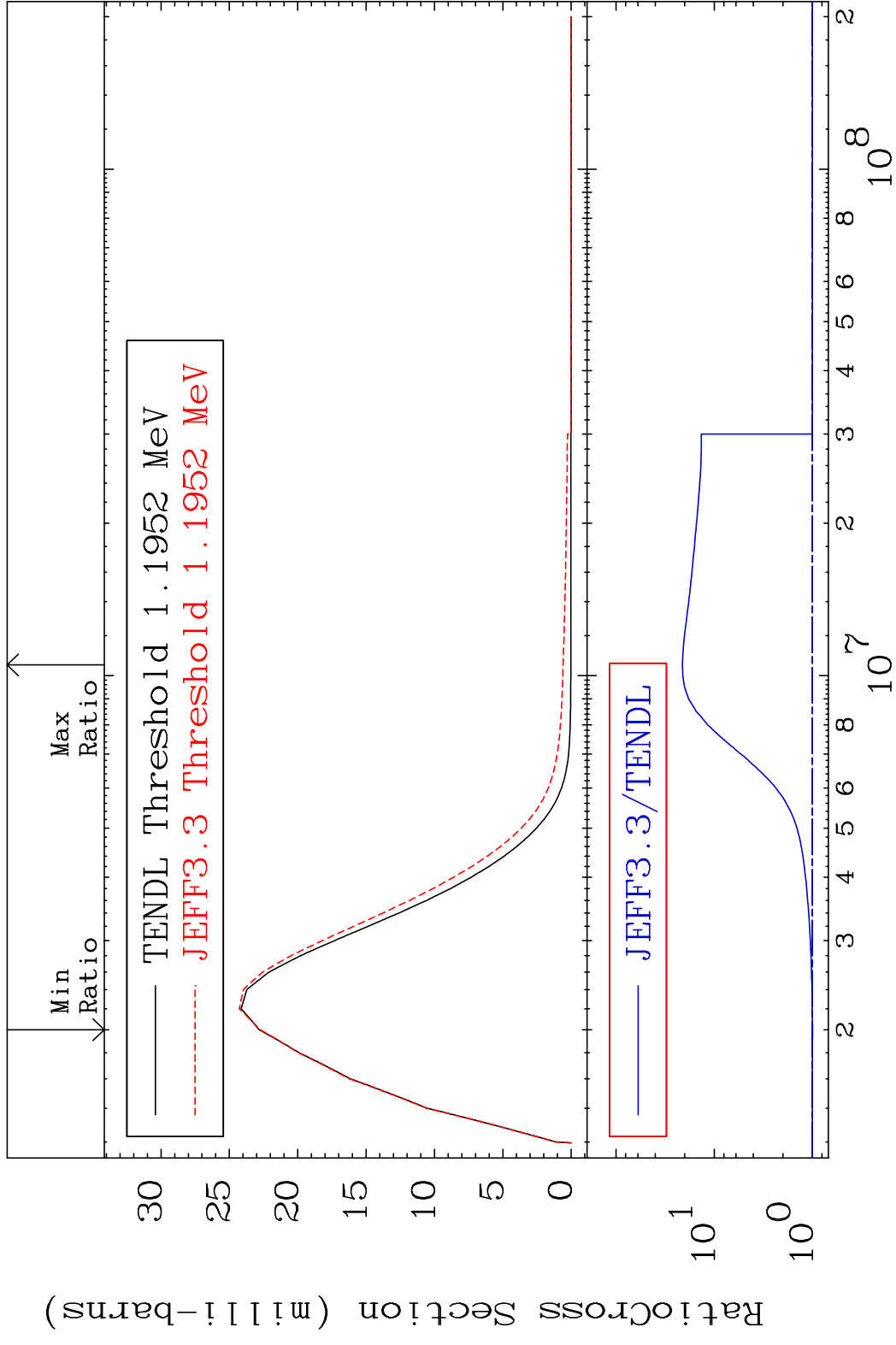


MAT 5143

MT= 56 (n, n') Level

51-Sb-127

Cross Section -0.282 To 2015. %

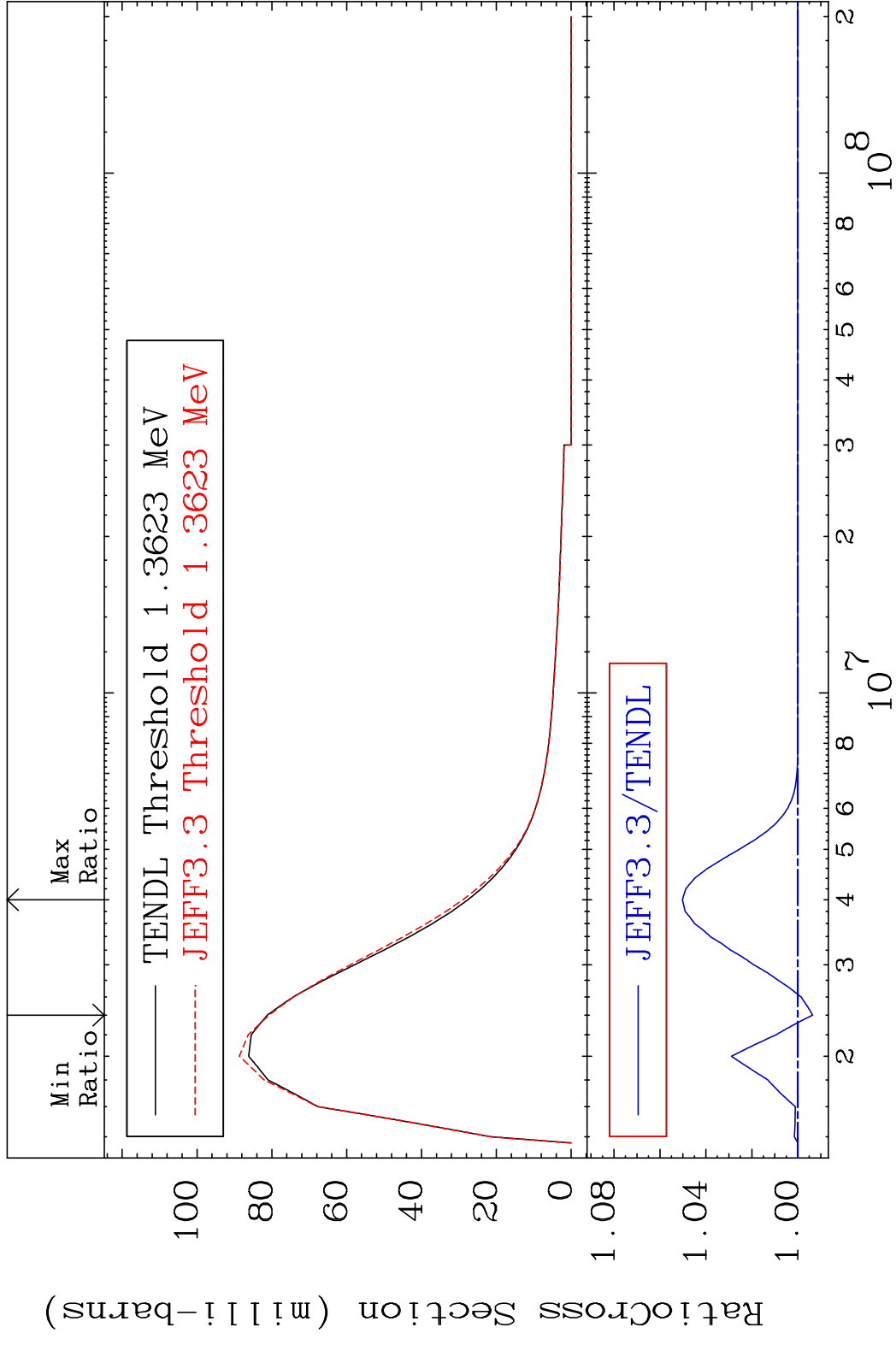


MAT 5143

MT= 57 (n, n') Level

51-Sb-127

Cross Section -0.643 To 5.025 %

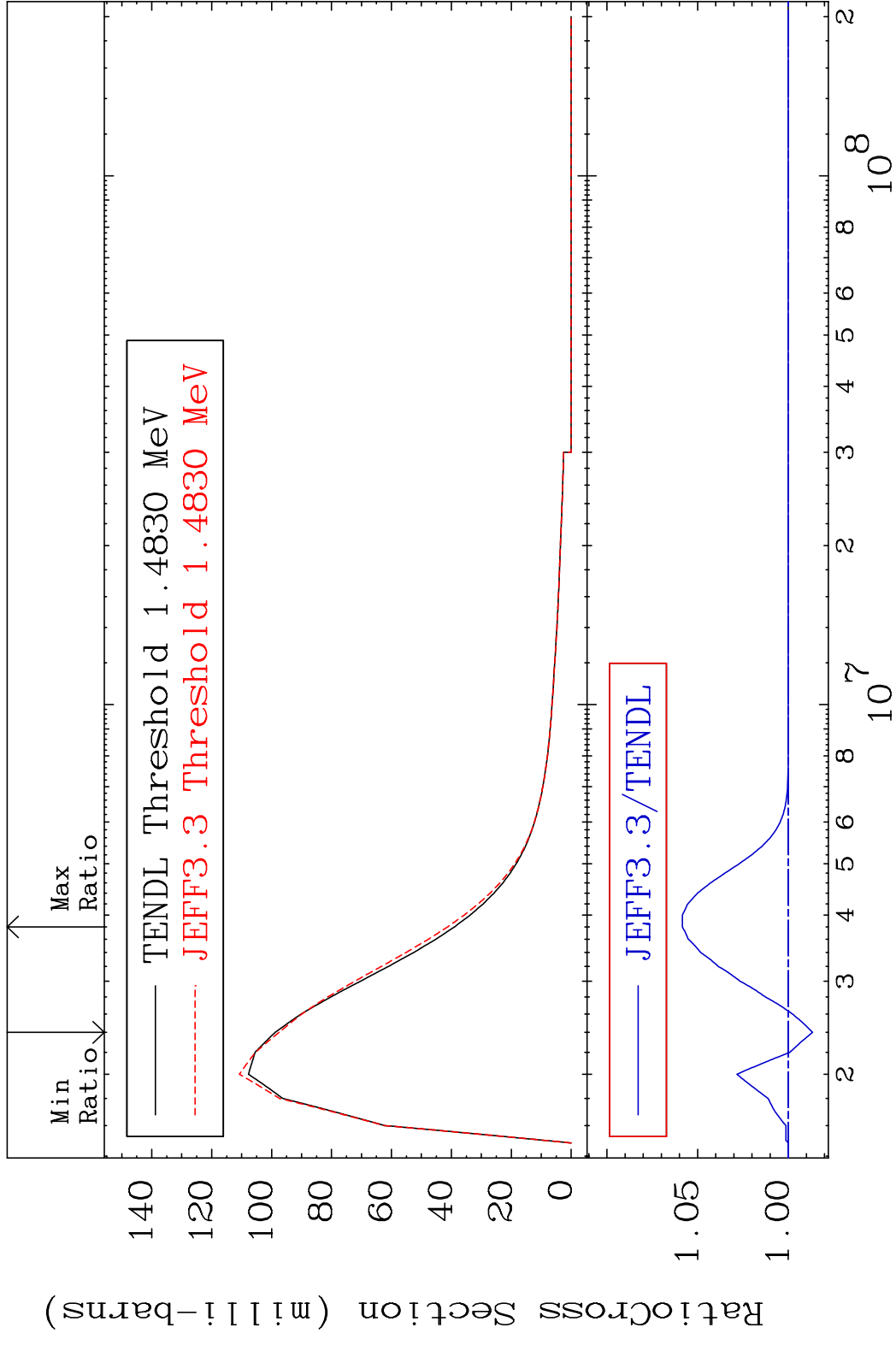


MAT 5143

MT= 58 (n, n') Level

51-Sb-127

Cross Section -1.339 To 5.841 %

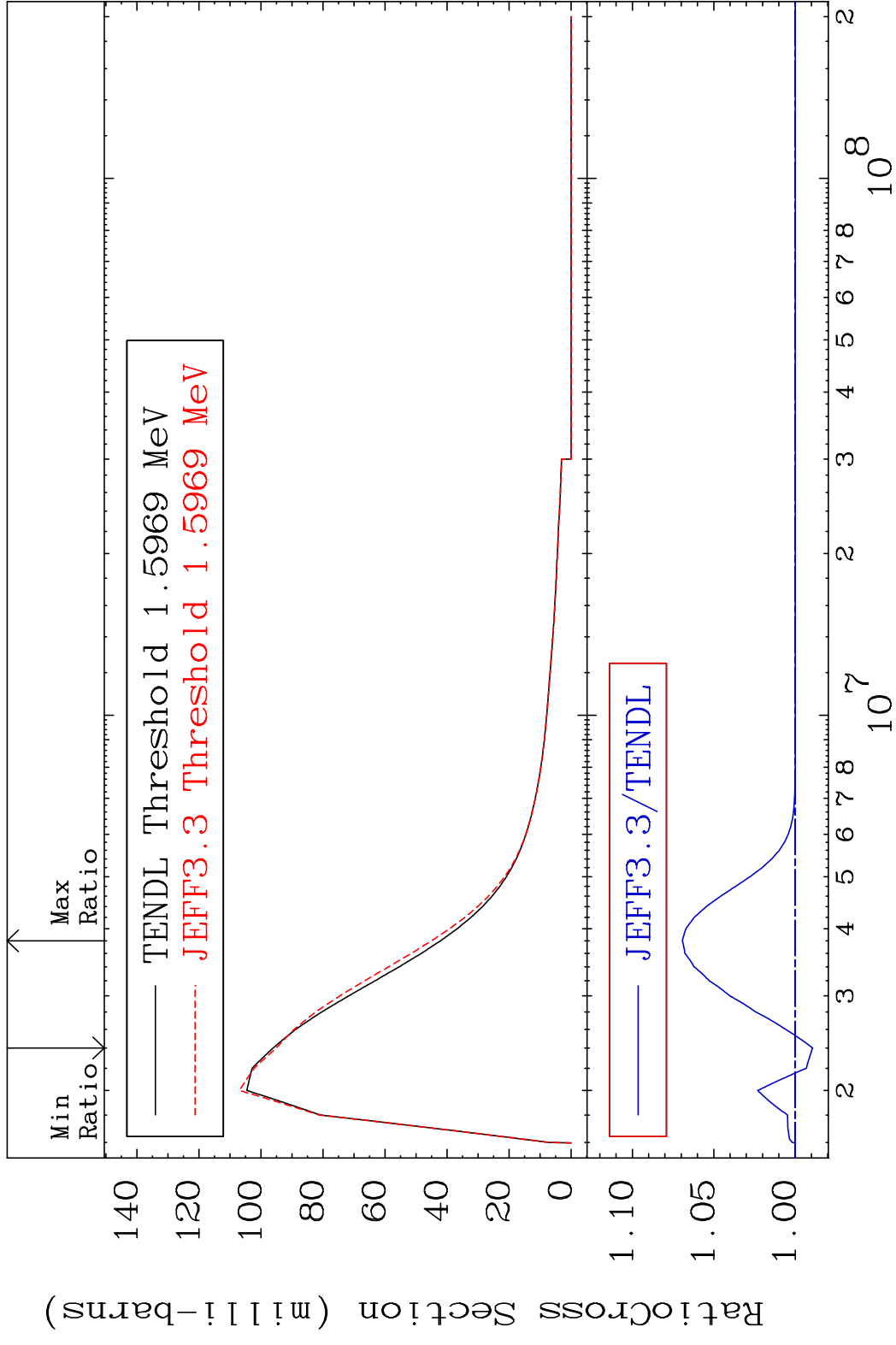


MAT 5143

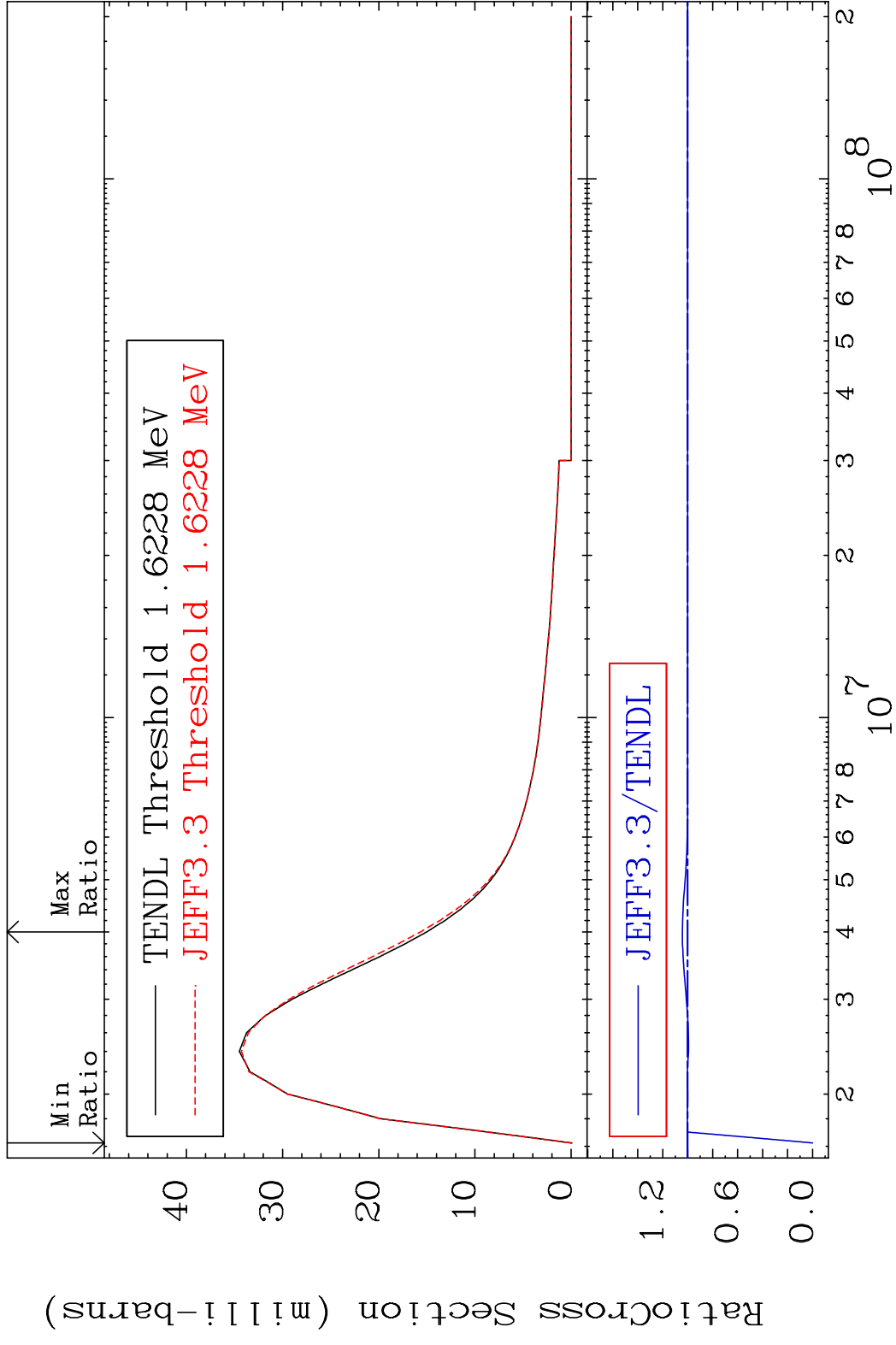
MT= 59 (n, n') Level

51-Sb-127

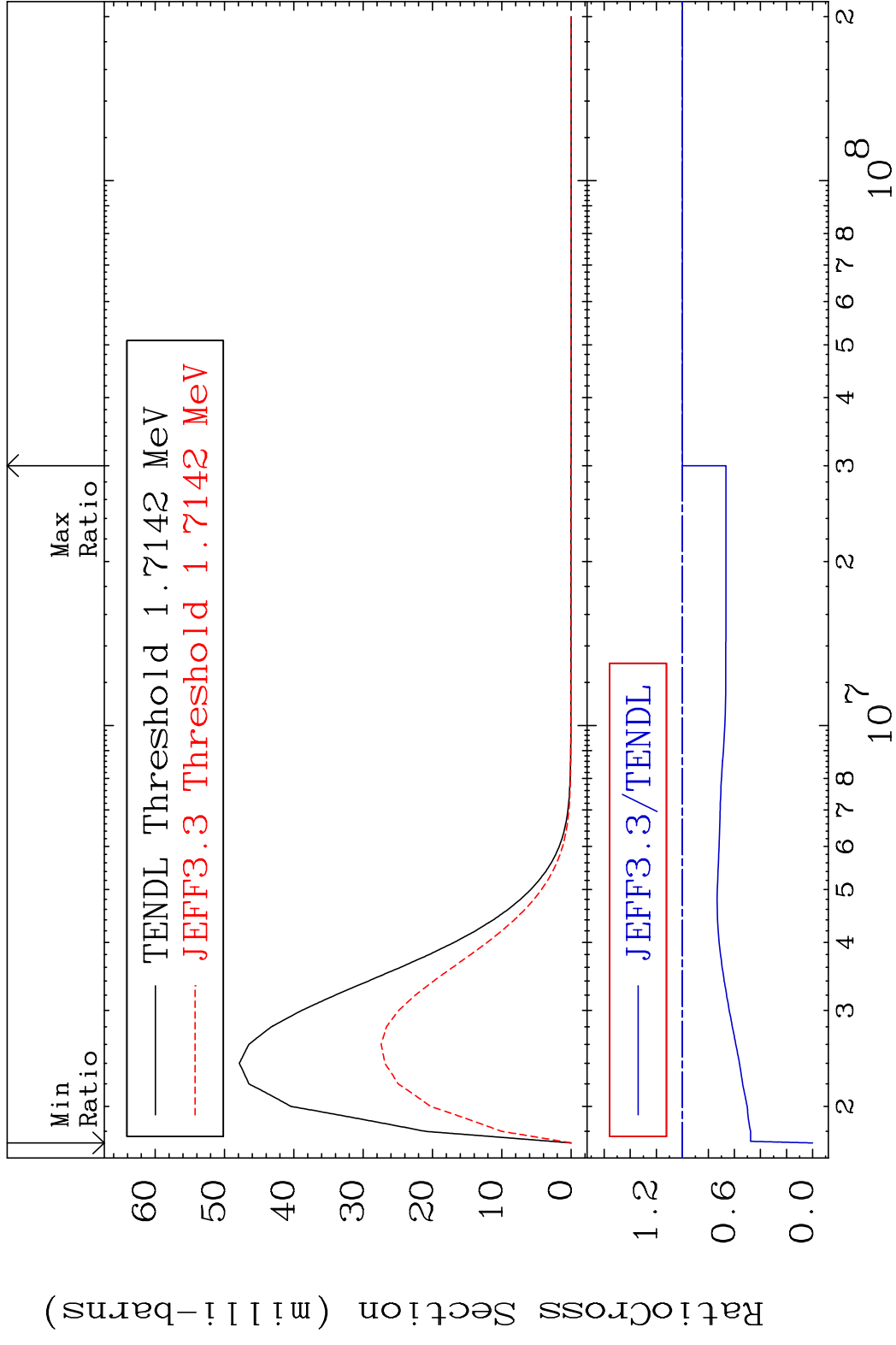
Cross Section -1.067 To 6.930 %



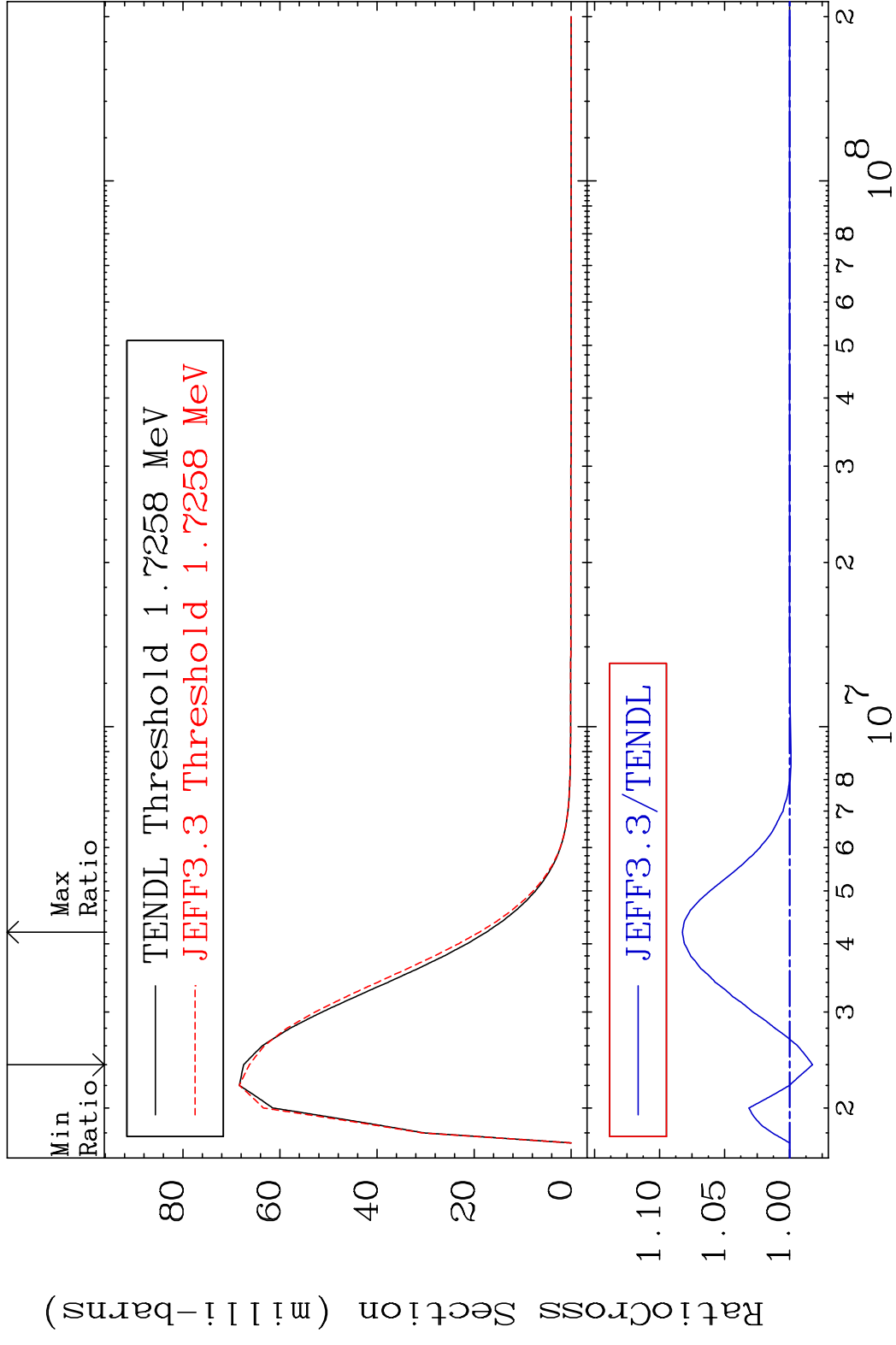
MAT 5143 MT= 60 (n,n') Level 51-Sb-127
 Cross Section -100.0 To 4.293 %



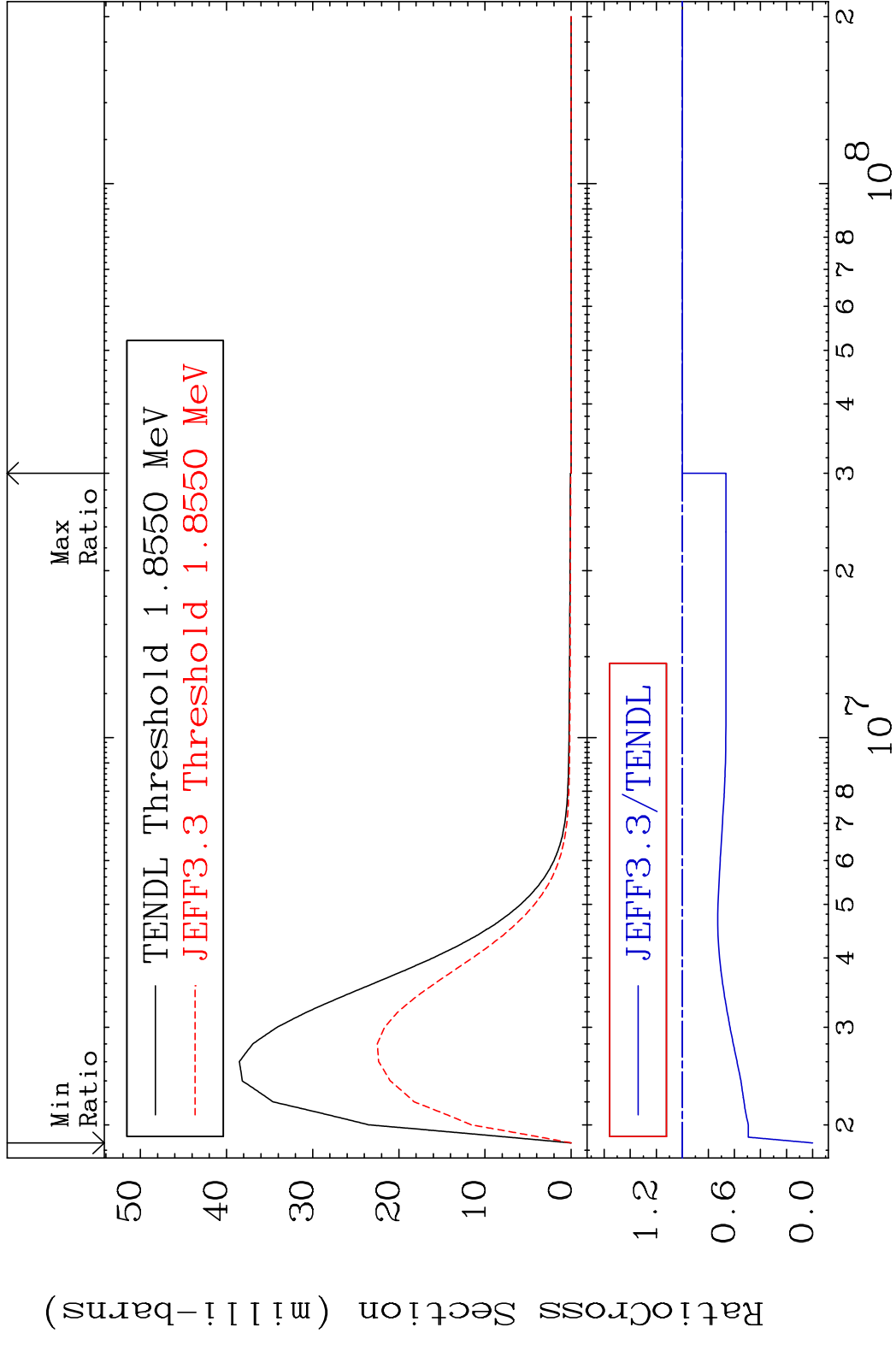
MAT 5143 MT= 61 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 0.000 %



MAT 5143 MT= 62 (n, n') Level 51-Sb-127
 Cross Section -1.760 To 8.247 %



MAT 5143 MT= 63 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 0.000 %

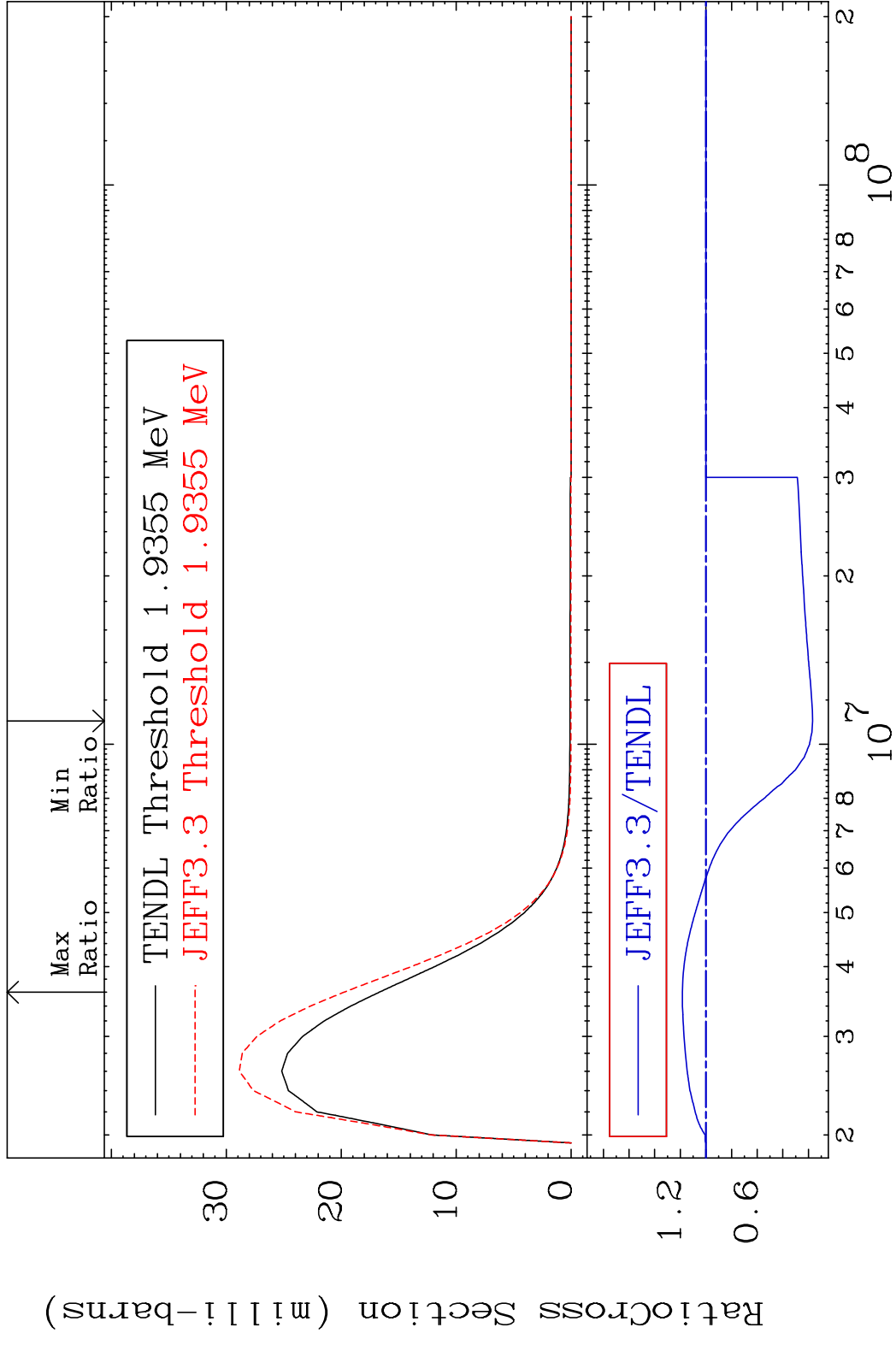


MAT 5143

MT= 64 (n, n') Level

51-Sb-127

Cross Section -83.19 To 18.38 %

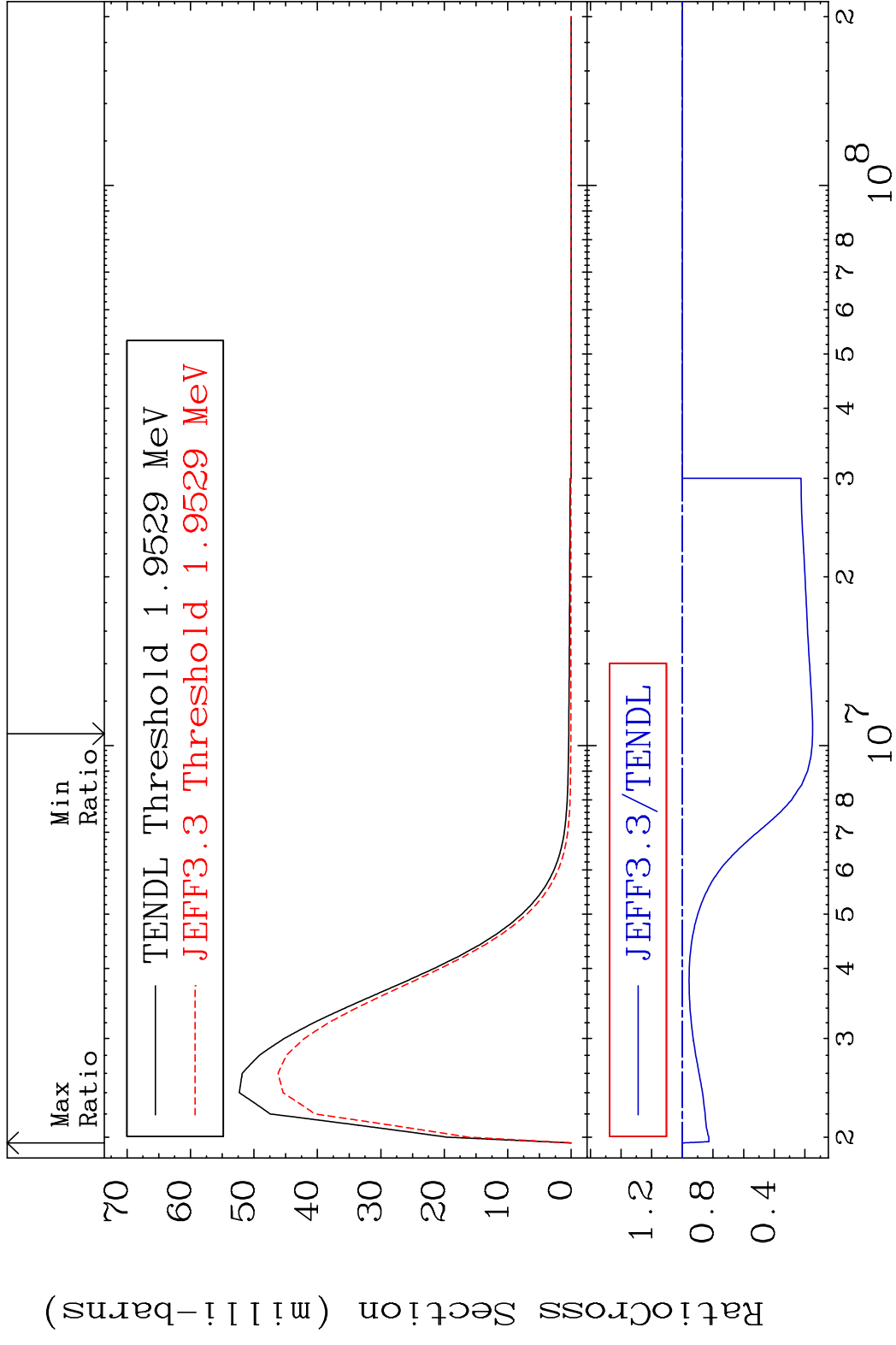


30

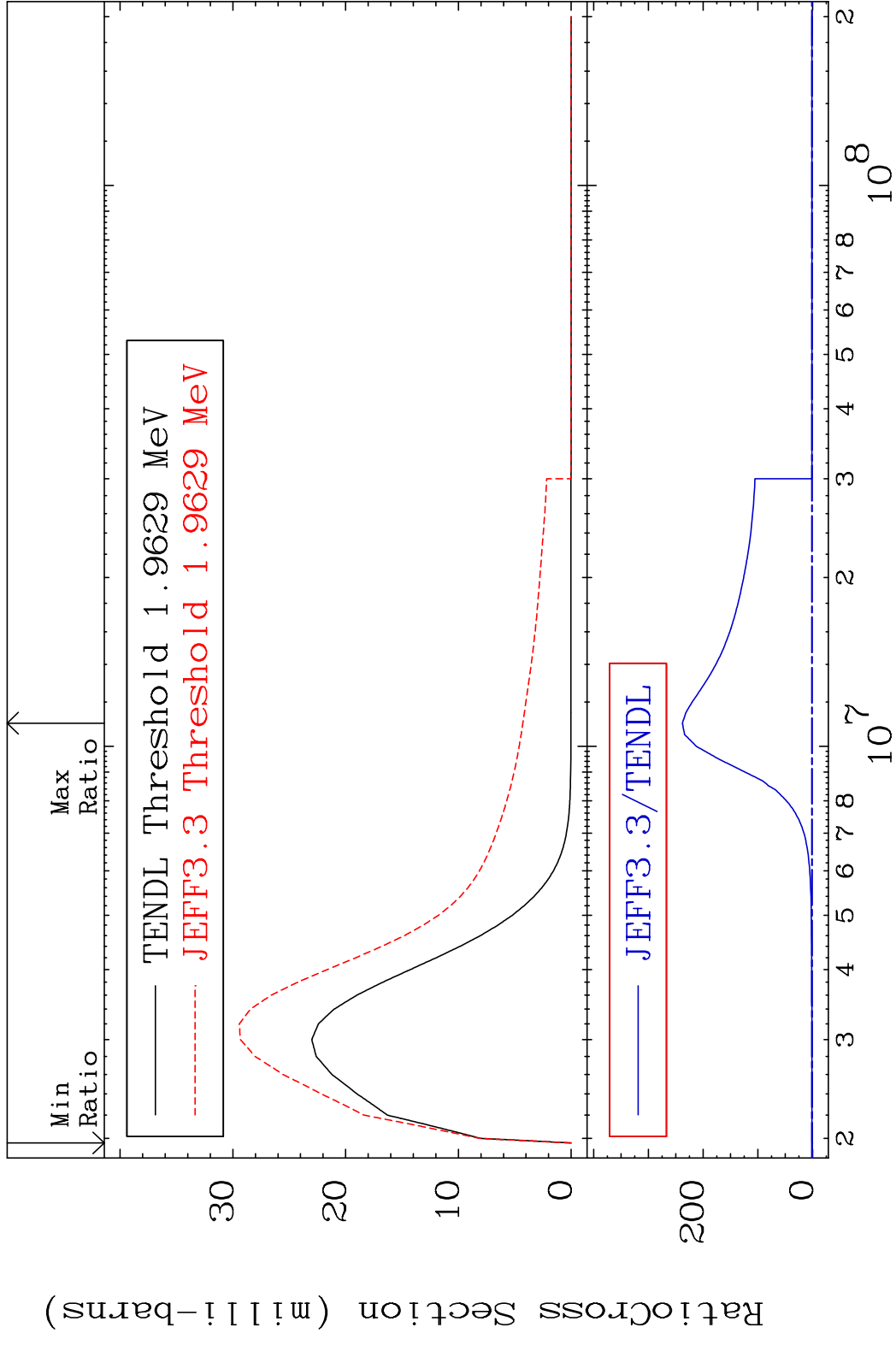
Incident Energy (eV)

51-Sb-127

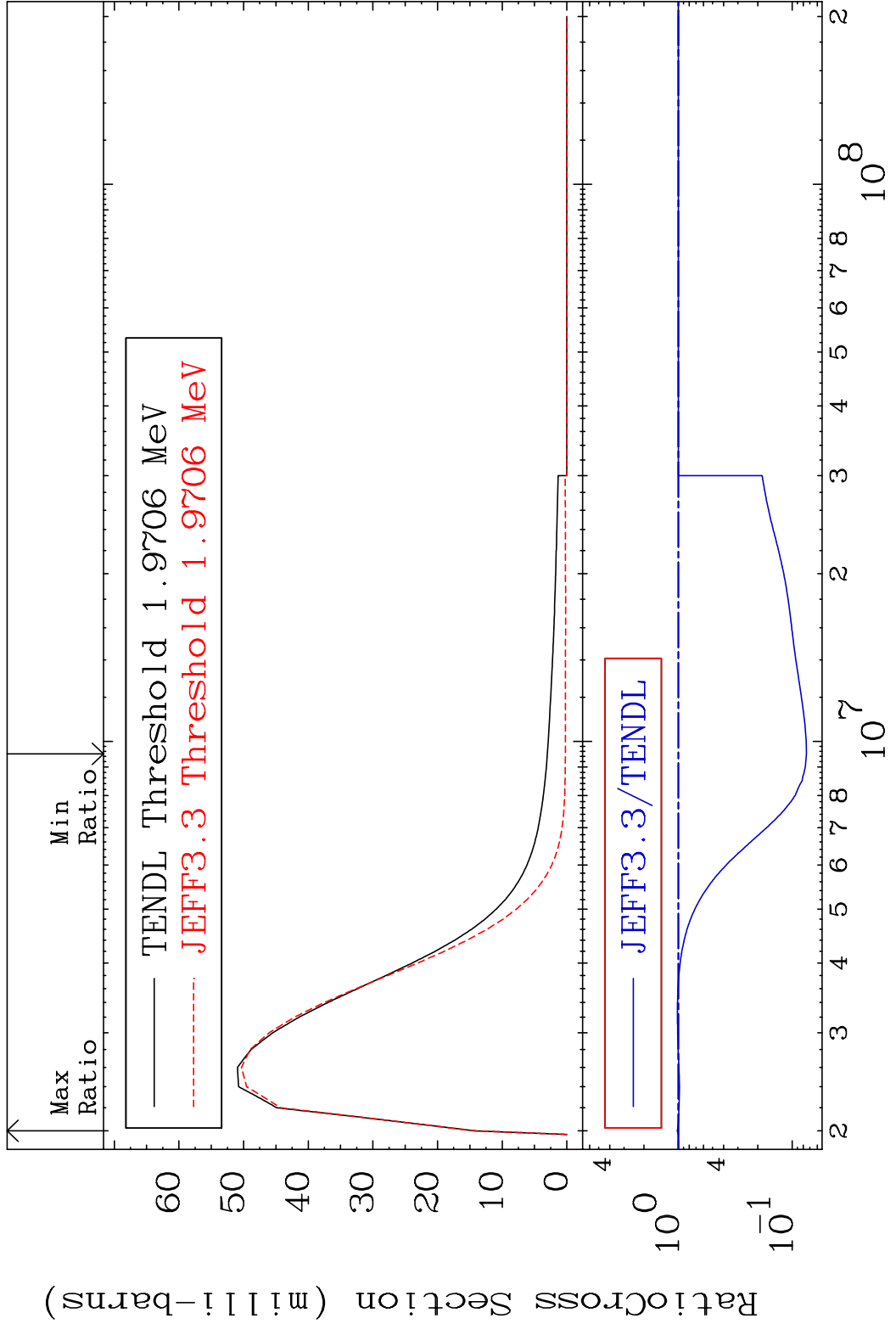
MAT 5143 MT= 65 (n,n') Level 51-Sb-127
 Cross Section -84.98 To 0.000 %



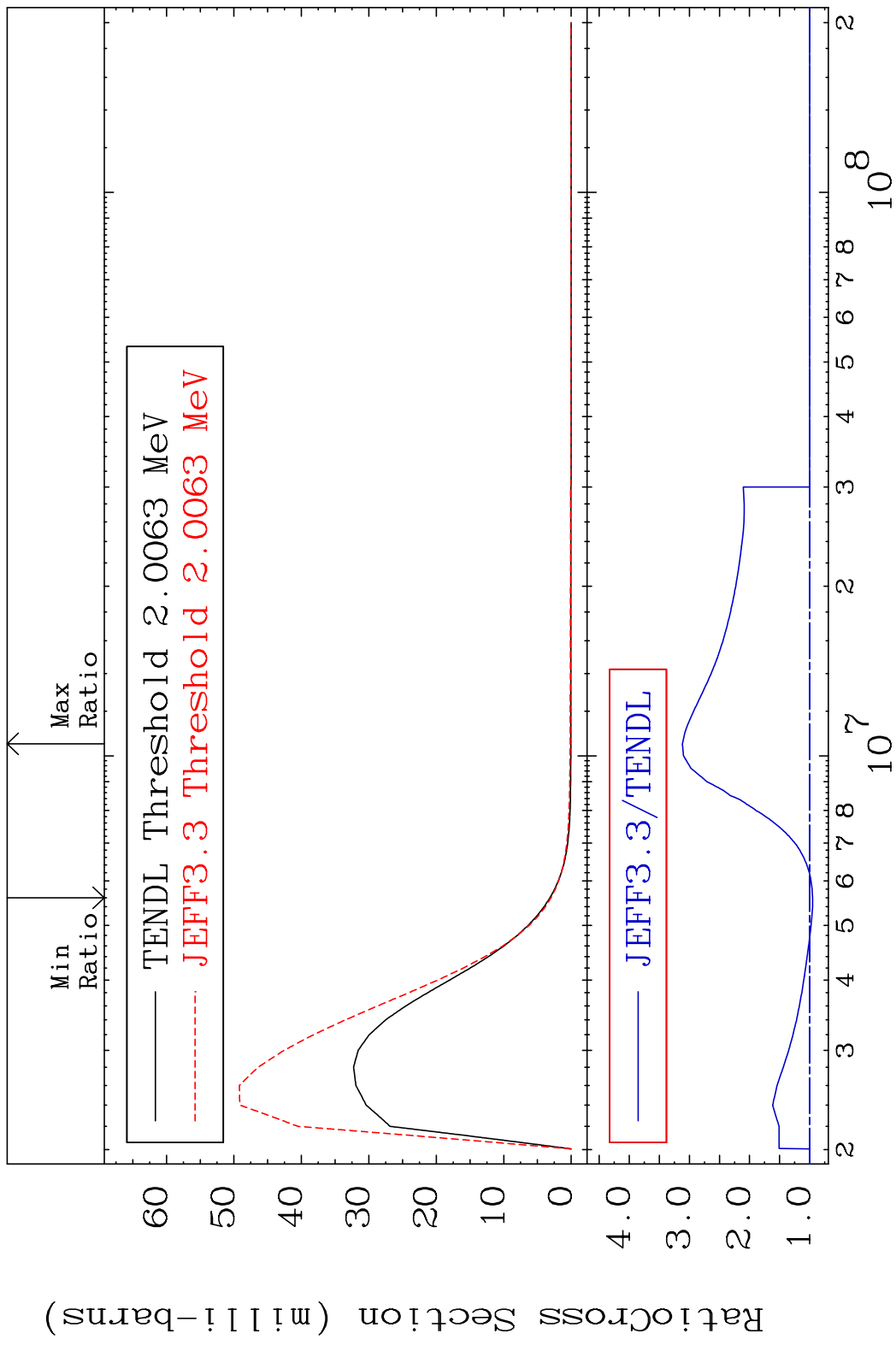
MAT 5143 MT= 66 (n,n') Level 51-Sb-127
 Cross Section -100.0 To 9999. %



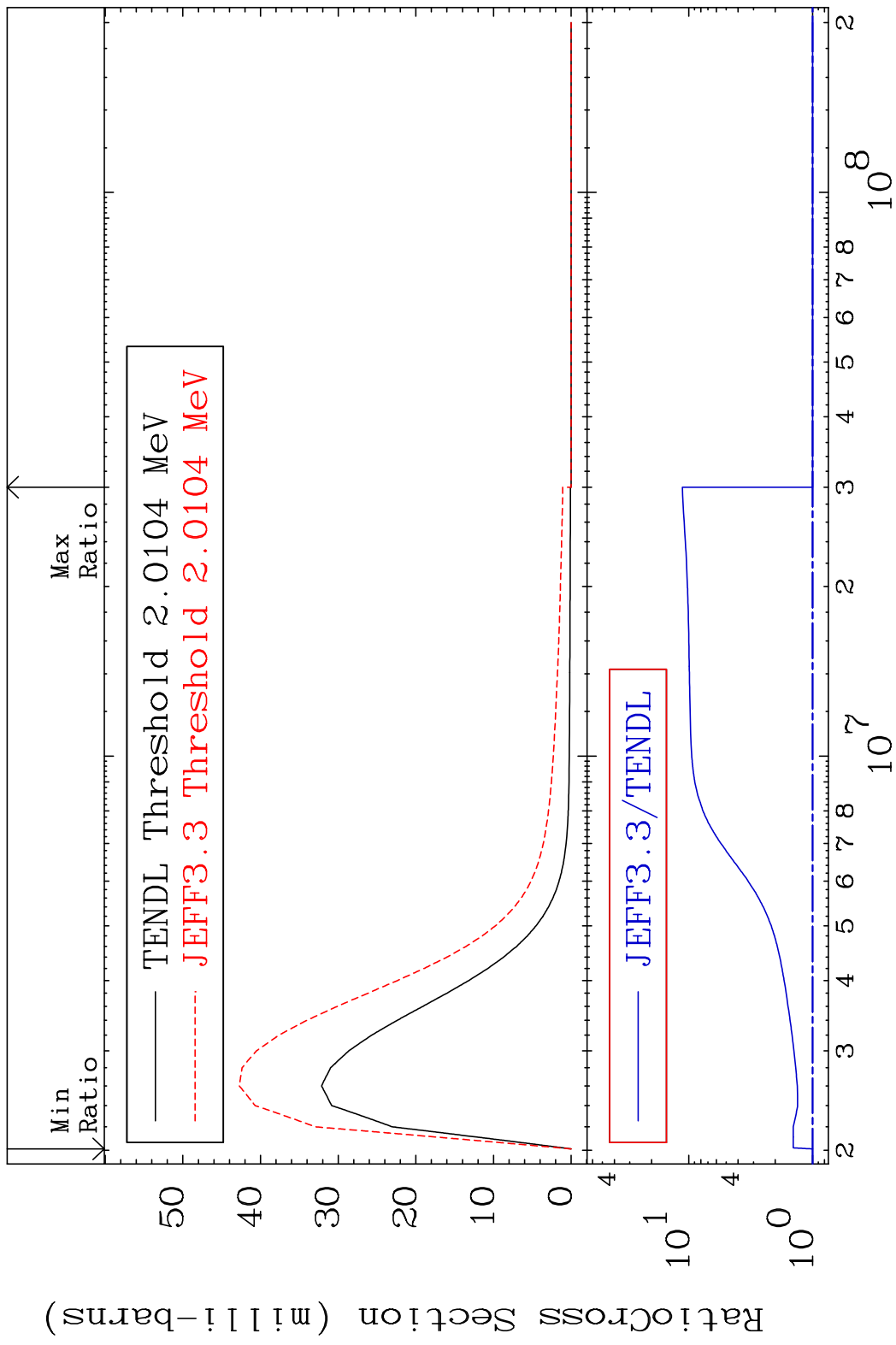
MAT 5143 MT= 67 (n,n') Level 51-Sb-127
 Cross Section -92.50 To 2.262 %



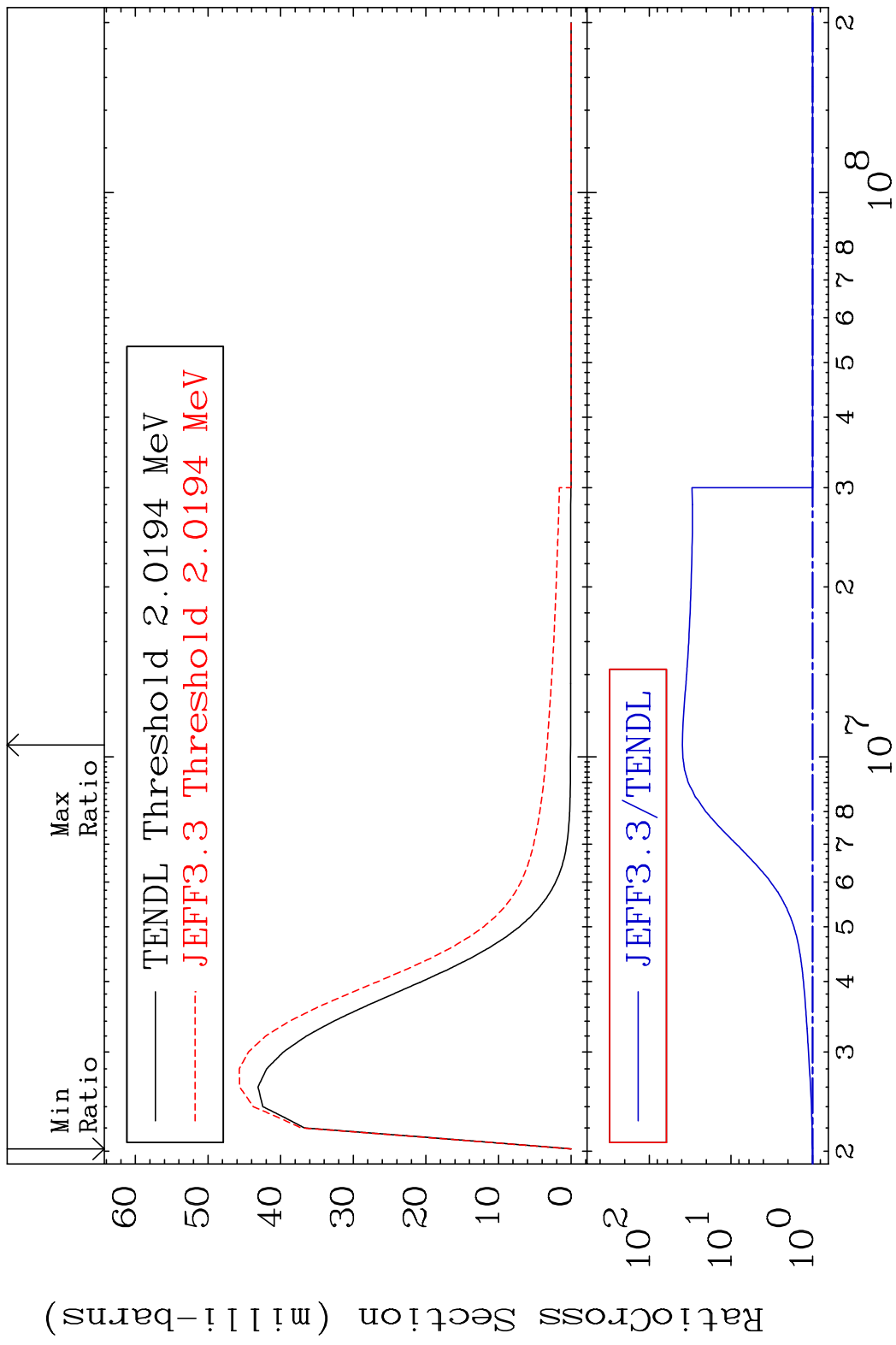
MAT 5143 MT= 68 (n, n') Level 51-Sb-127
 Cross Section -4.816 To 211.7 %



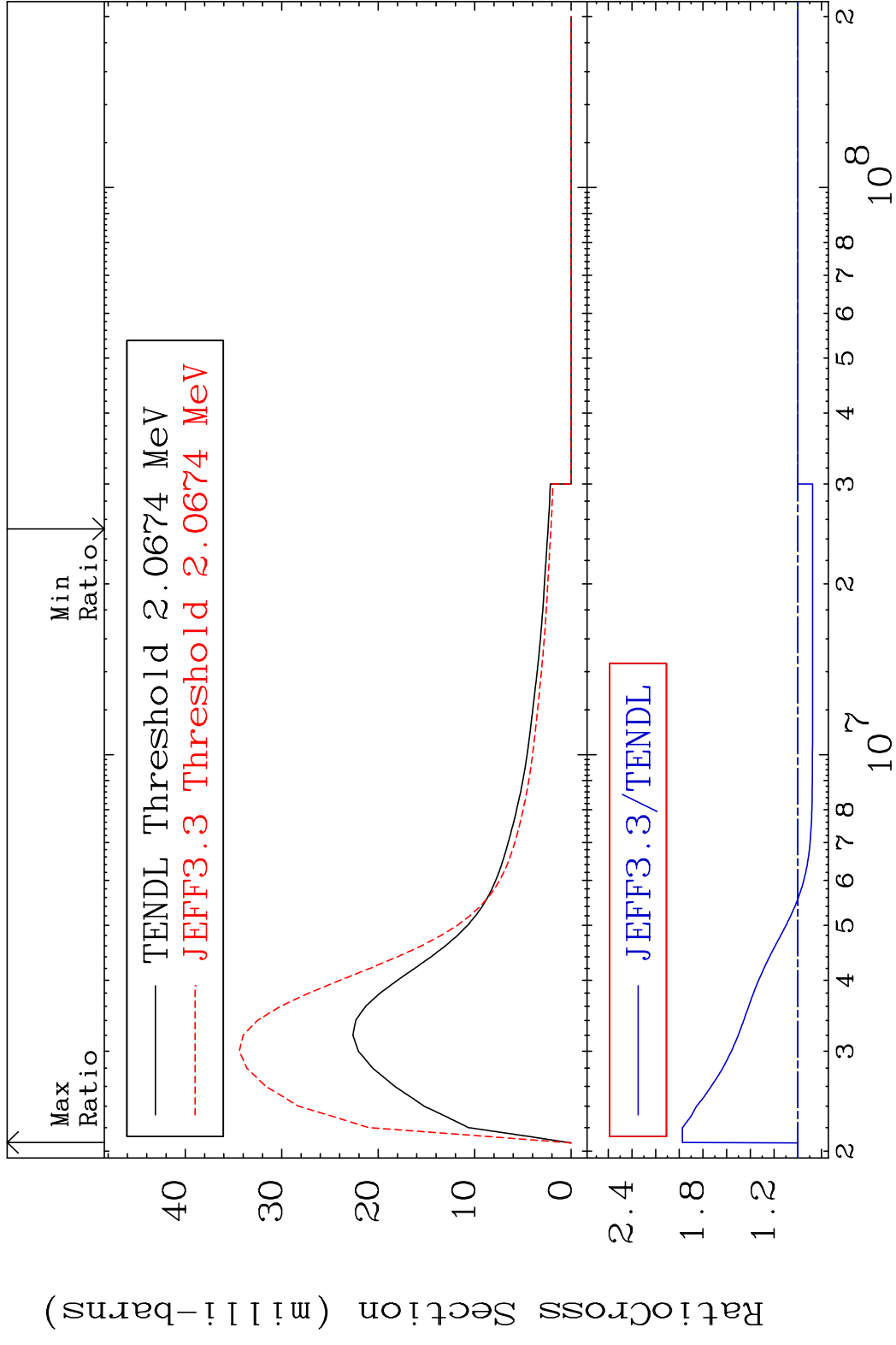
MAT 5143 MT= 69 (n, n') Level 51-Sb-127
 Cross Section 0.000 To 1028. %



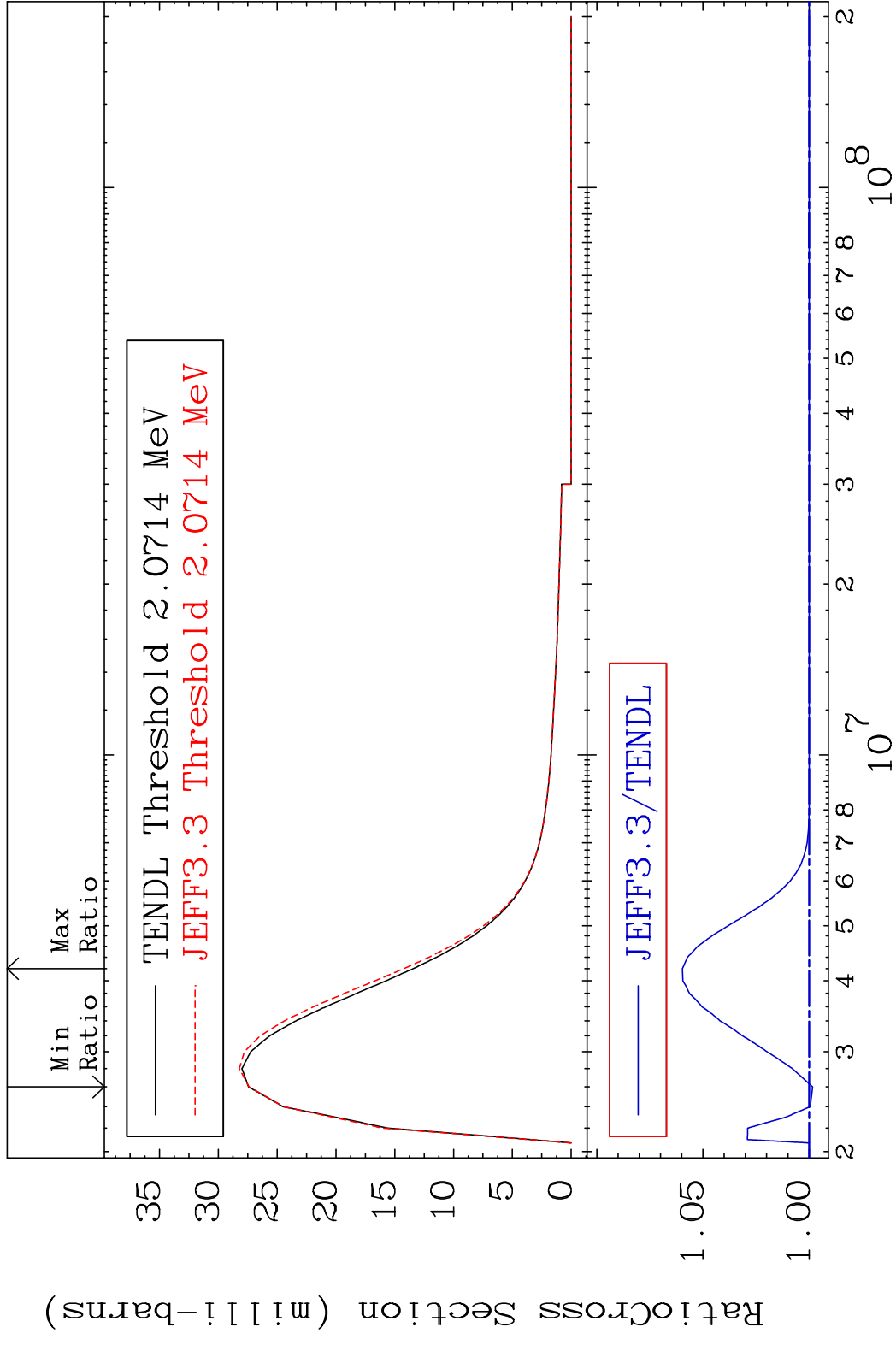
MAT 5143 MT= 70 (n,n') Level 51-Sb-127
 Cross Section 0.000 To 3835. %



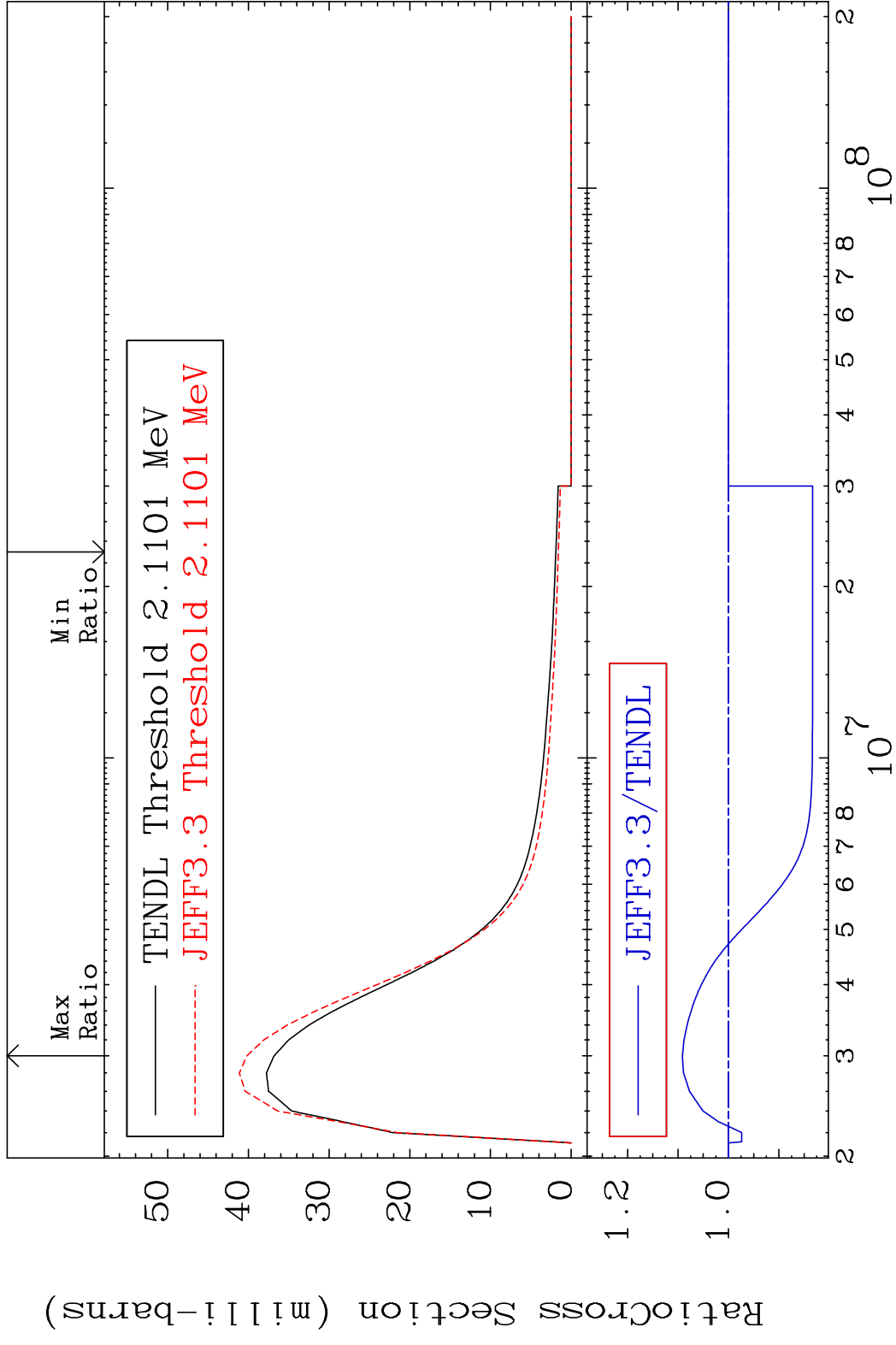
MAT 5143 MT= 71 (n, n') Level 51-Sb-127
 Cross Section -12.50 To 97.42 %



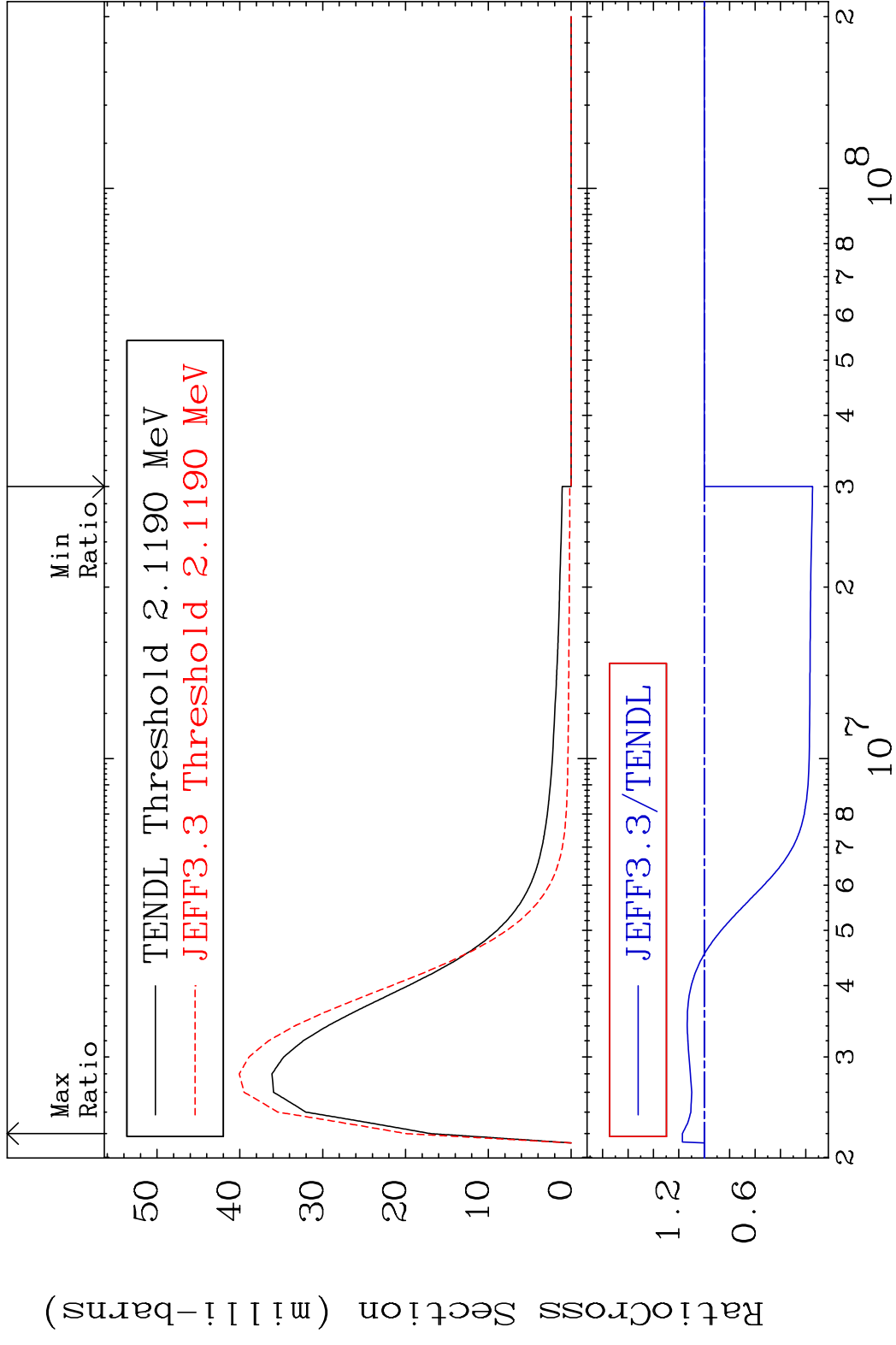
MAT 5143 MT= 72 (n, n') Level 51-Sb-127
 Cross Section -0.163 To 5.970 %



MAT 5143 MT= 73 (n, n') Level 51-Sb-127
 Cross Section -16.66 To 9.139 %

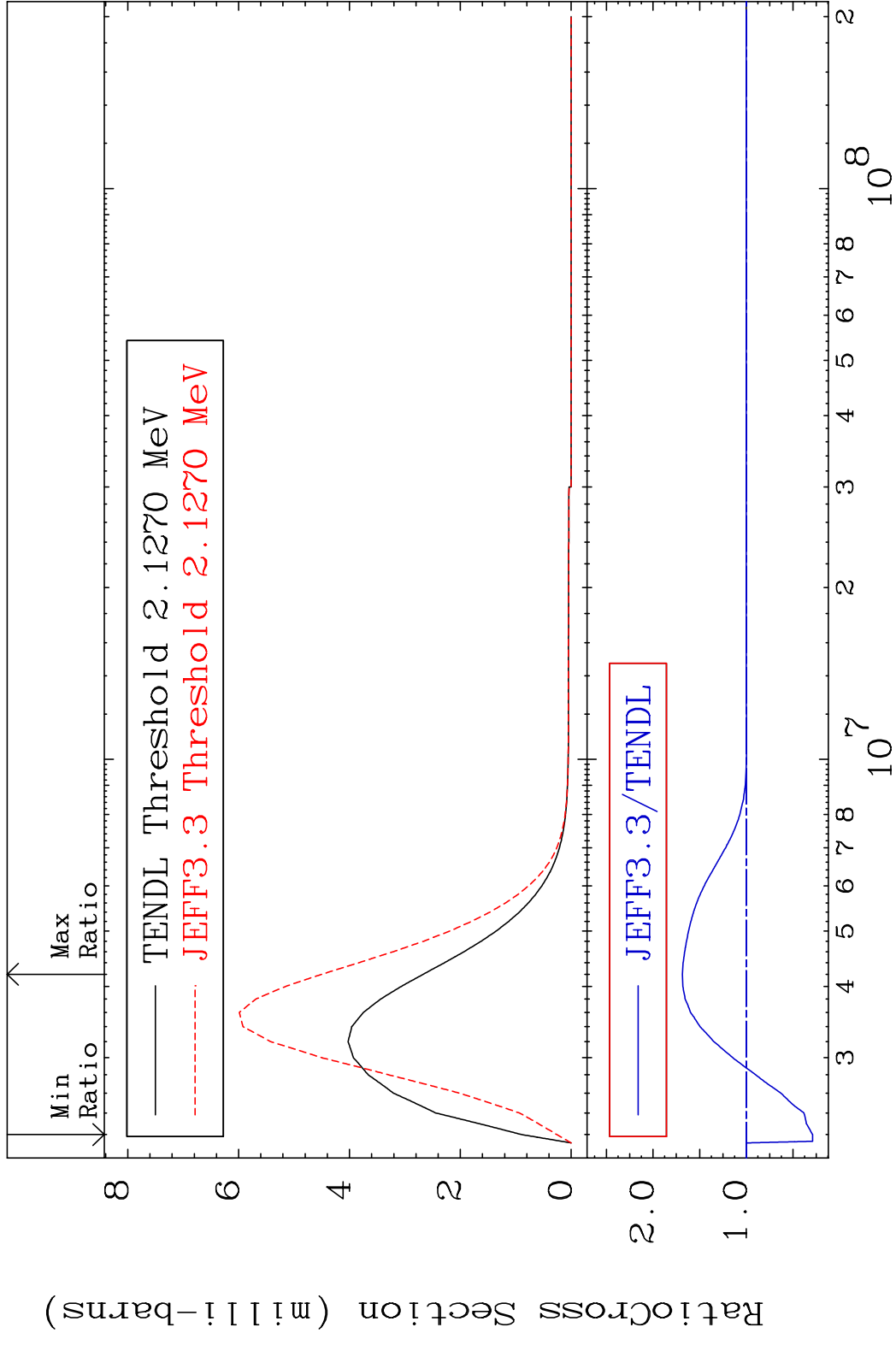


MAT 5143 MT= 74 (n, n') Level 51-Sb-127
 Cross Section -85.26 To 17.24 %



40 51-Sb-127

MAT 5143 MT= 75 (n, n') Level 51-Sb-127
 Cross Section -71.00 To 68.55 %

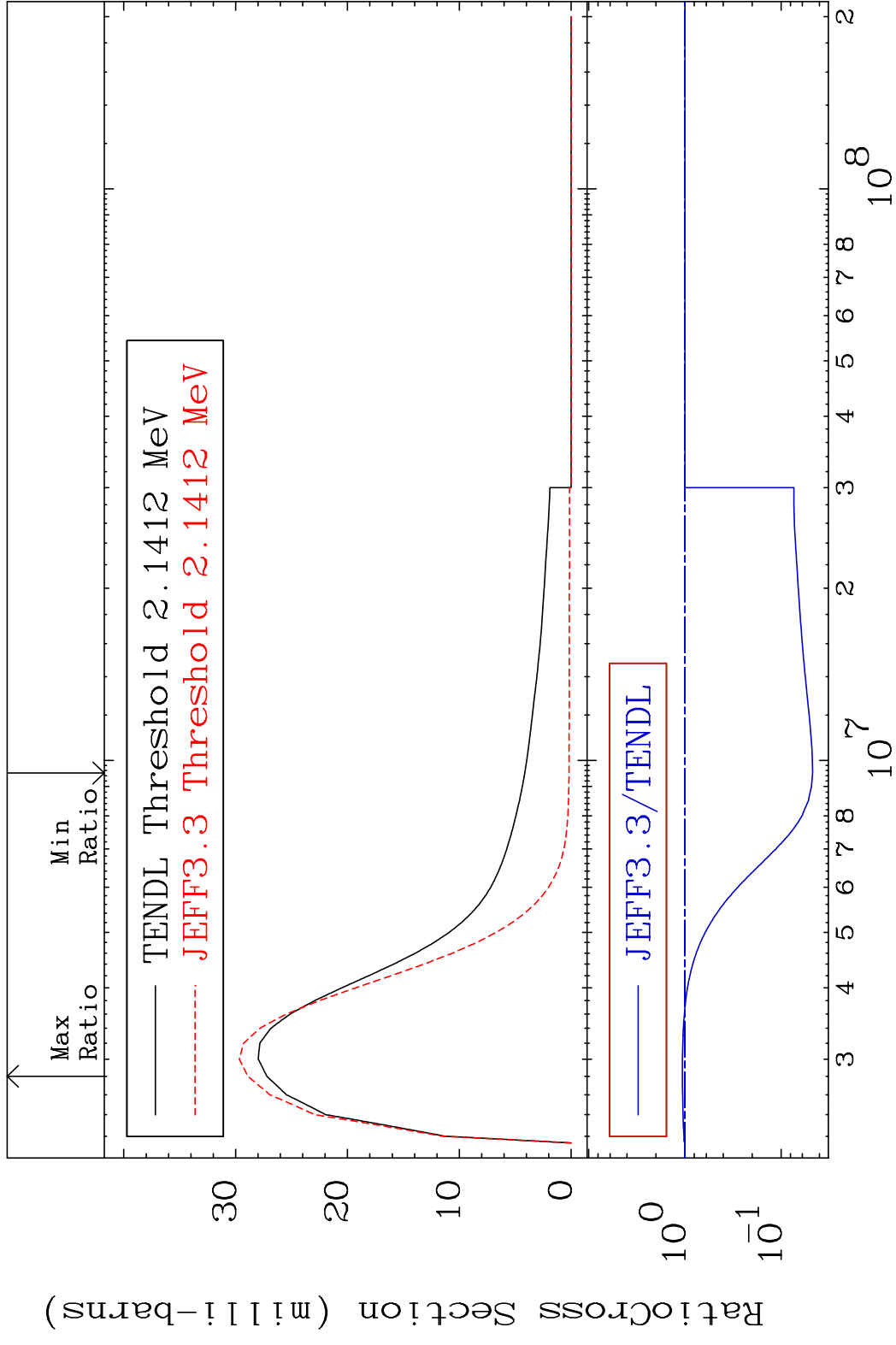


MAT 5143

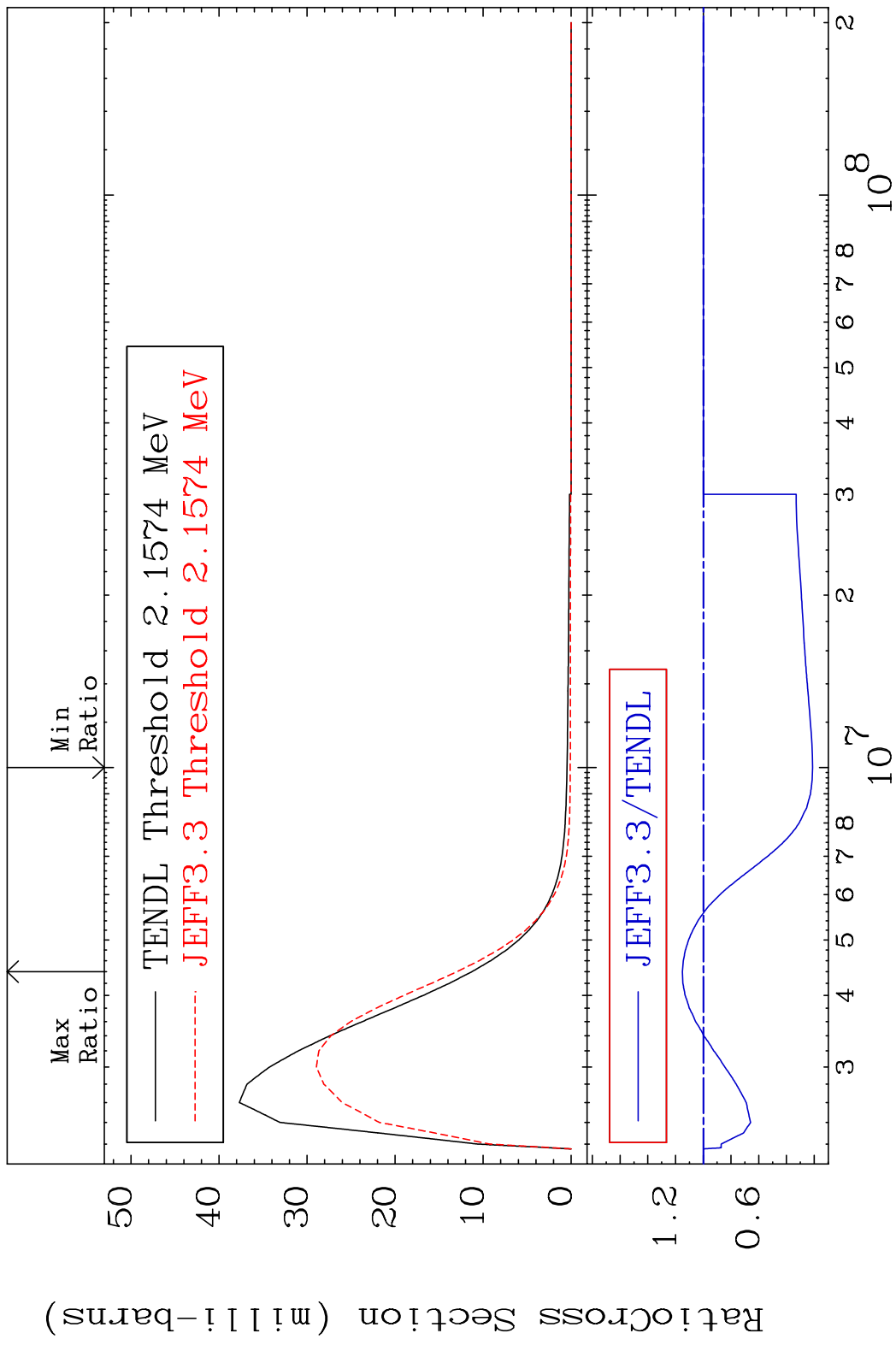
MT= 76 (n, n') Level

51-Sb-127

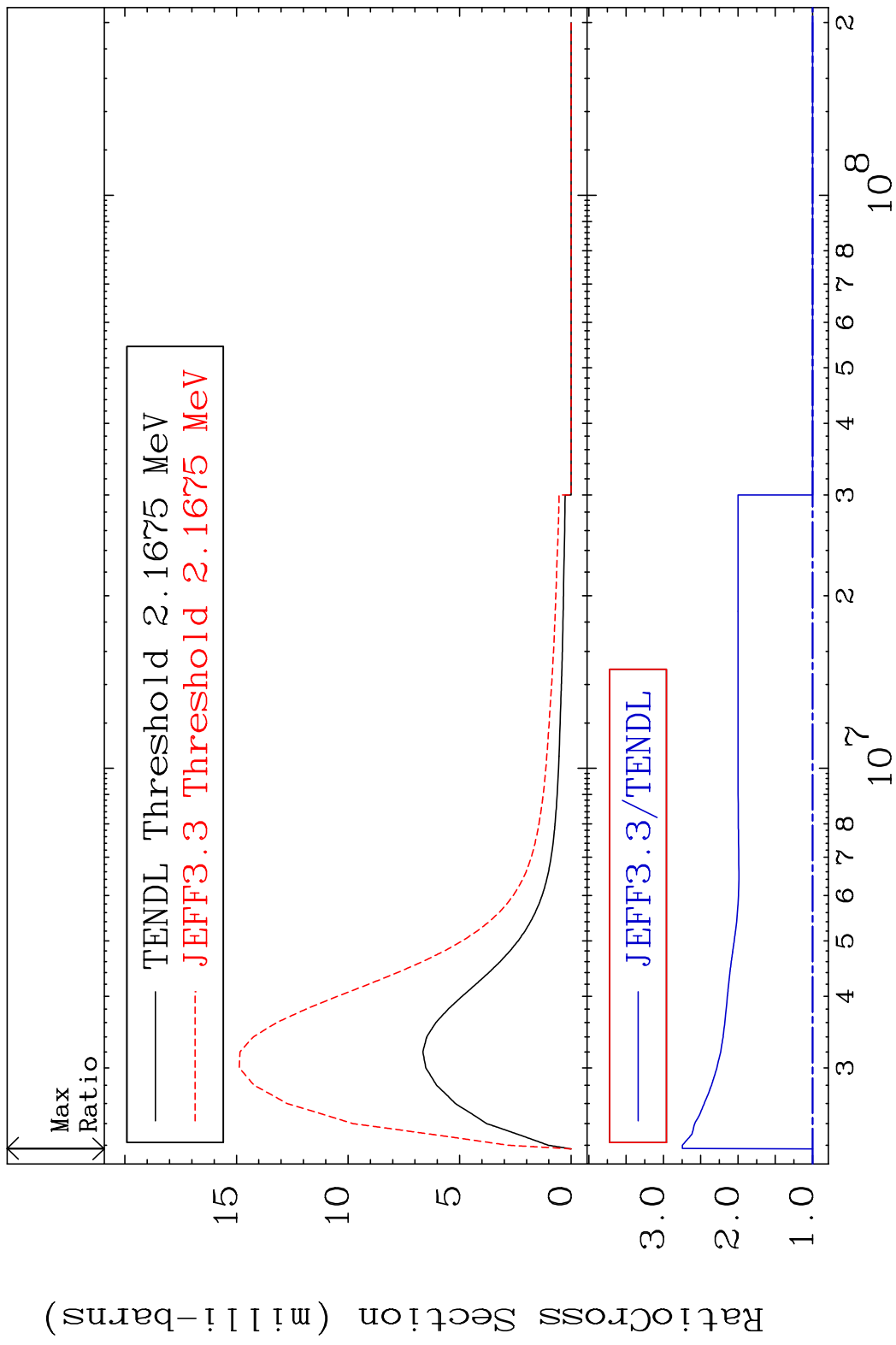
Cross Section -95.29 To 6.286 %



MAT 5143 MT= 77 (n, n') Level 51-Sb-127
 Cross Section -78.81 To 15.09 %



MAT 5143 MT= 78 (n, n') Level 51-Sb-127
 Cross Section 0.000 To 174.6 %

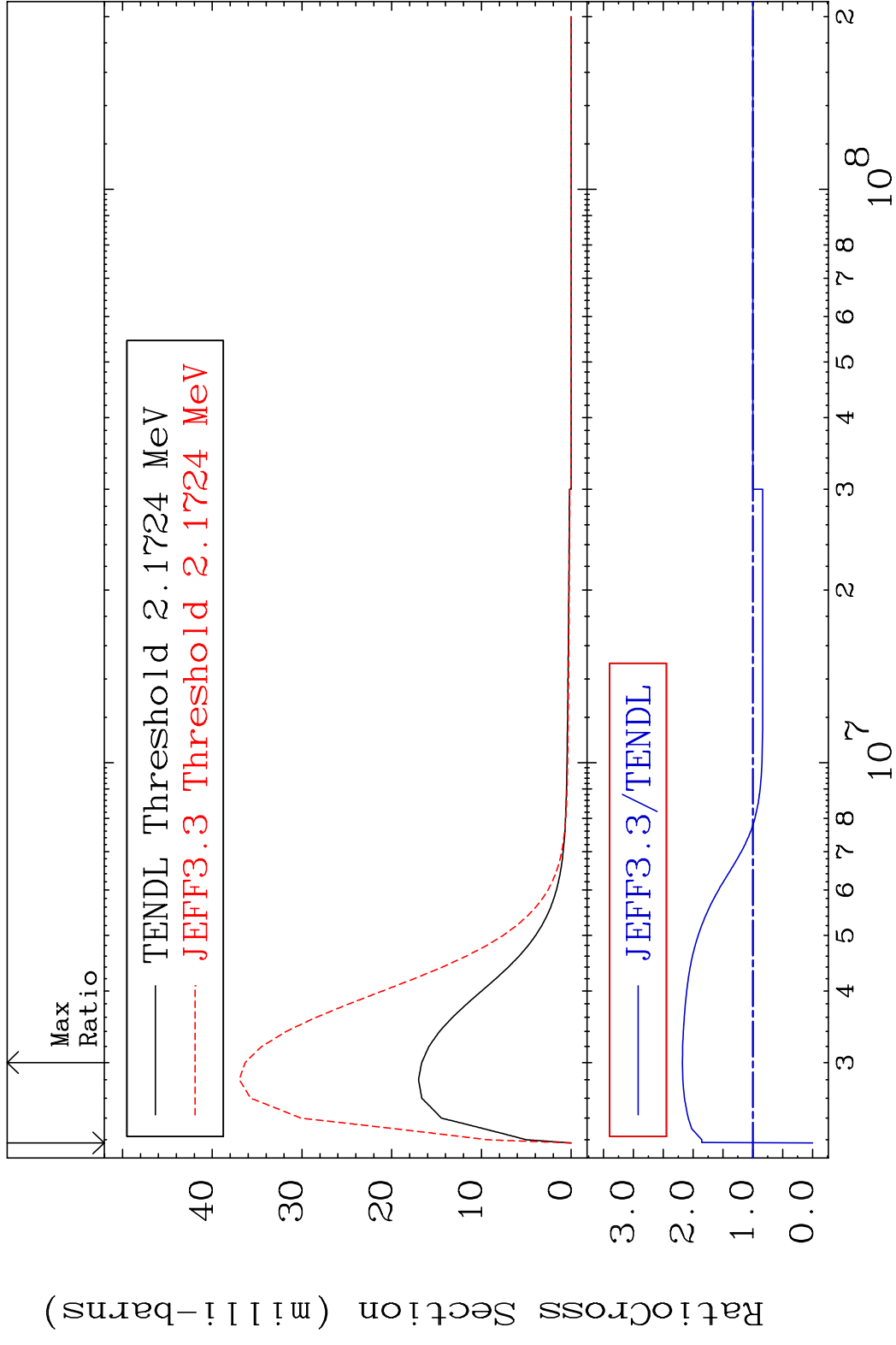


MAT 5143

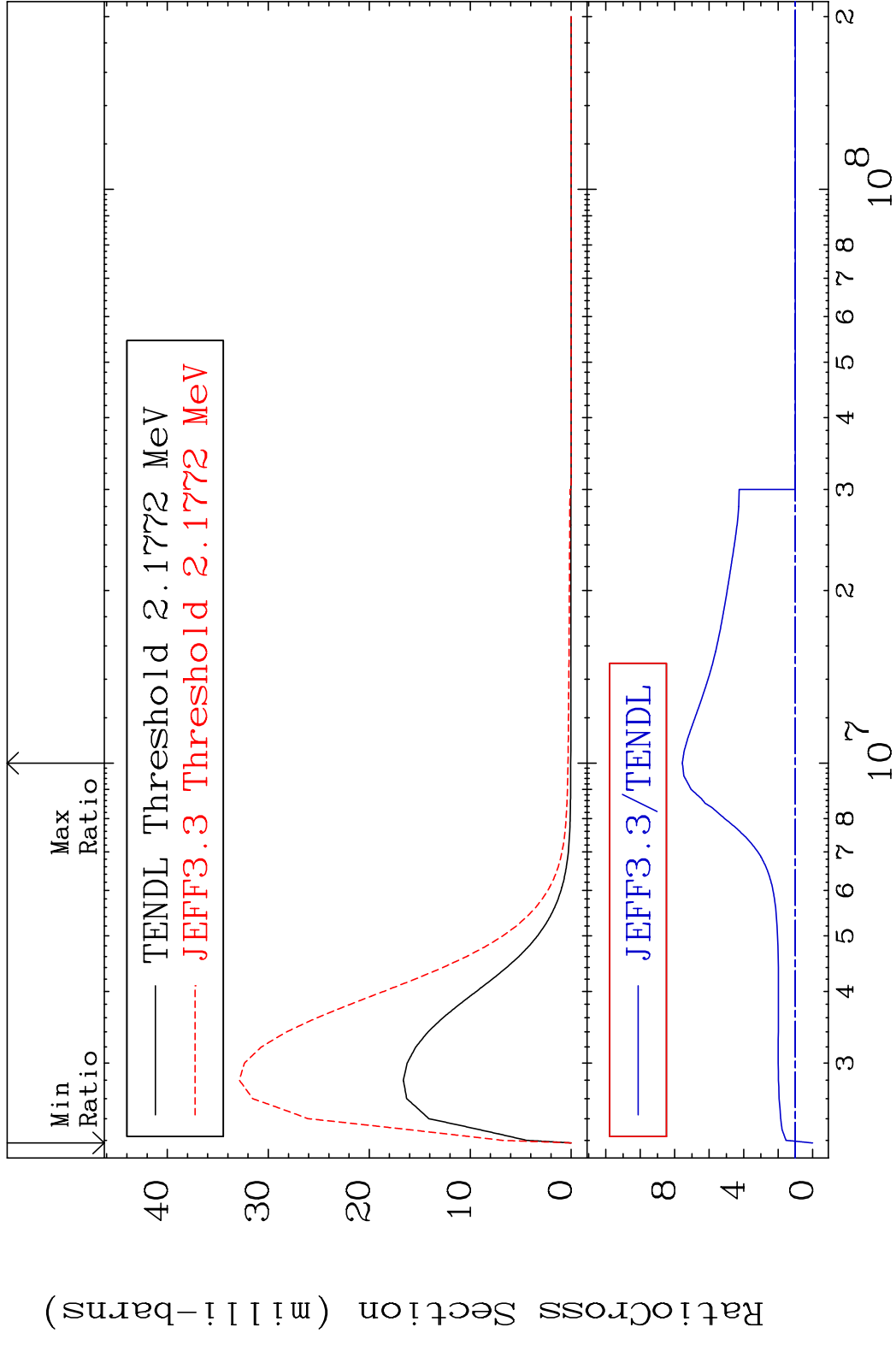
MT= 79 (n, n') Level

51-Sb-127

Cross Section -100.0 To 118.1 %



MAT 5143 MT= 80 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 655.6 %

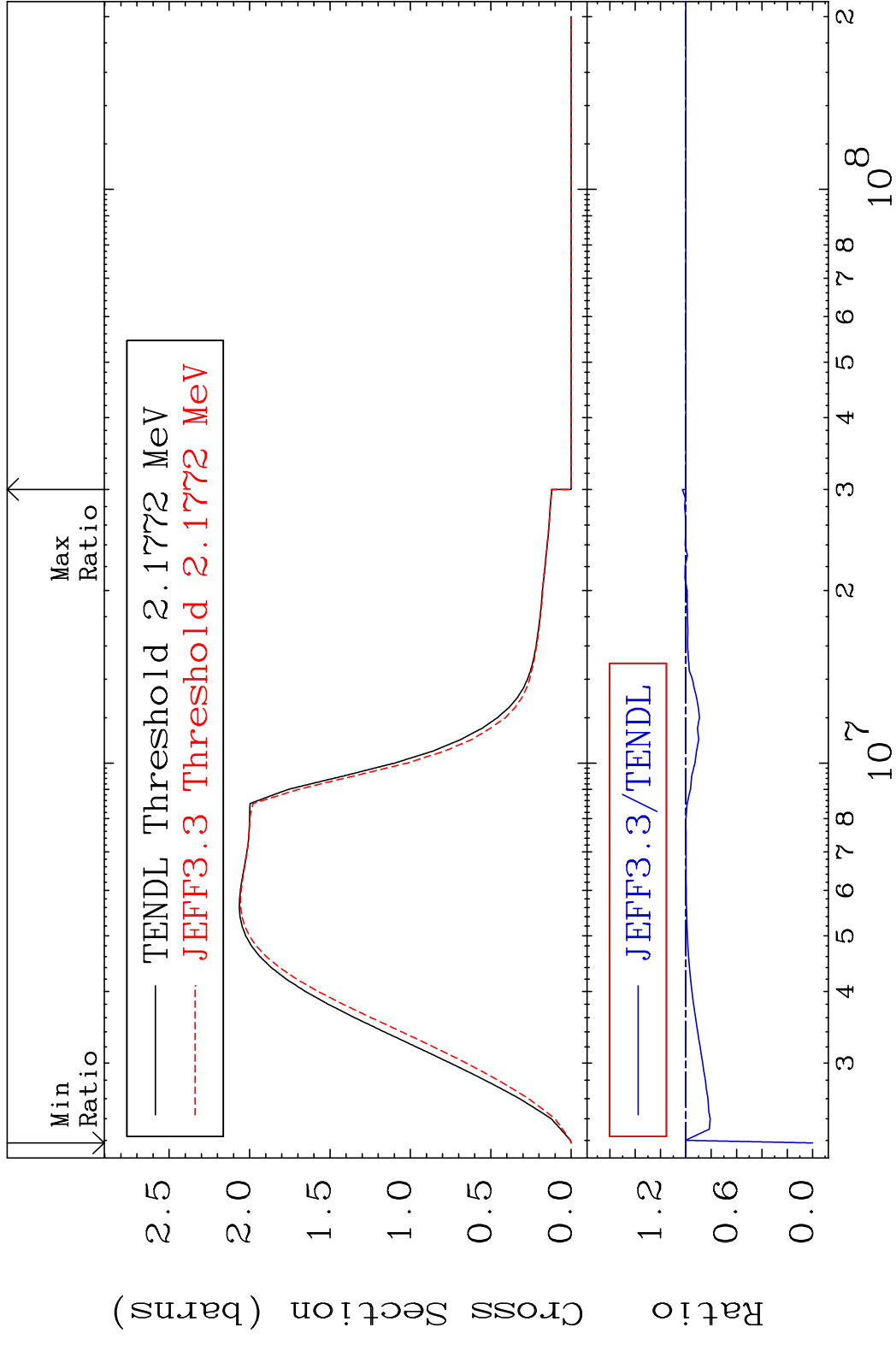


MAT 5143

(n, n') Continuum

51-Sb-127

Cross Section -100.0 To 2.798 %

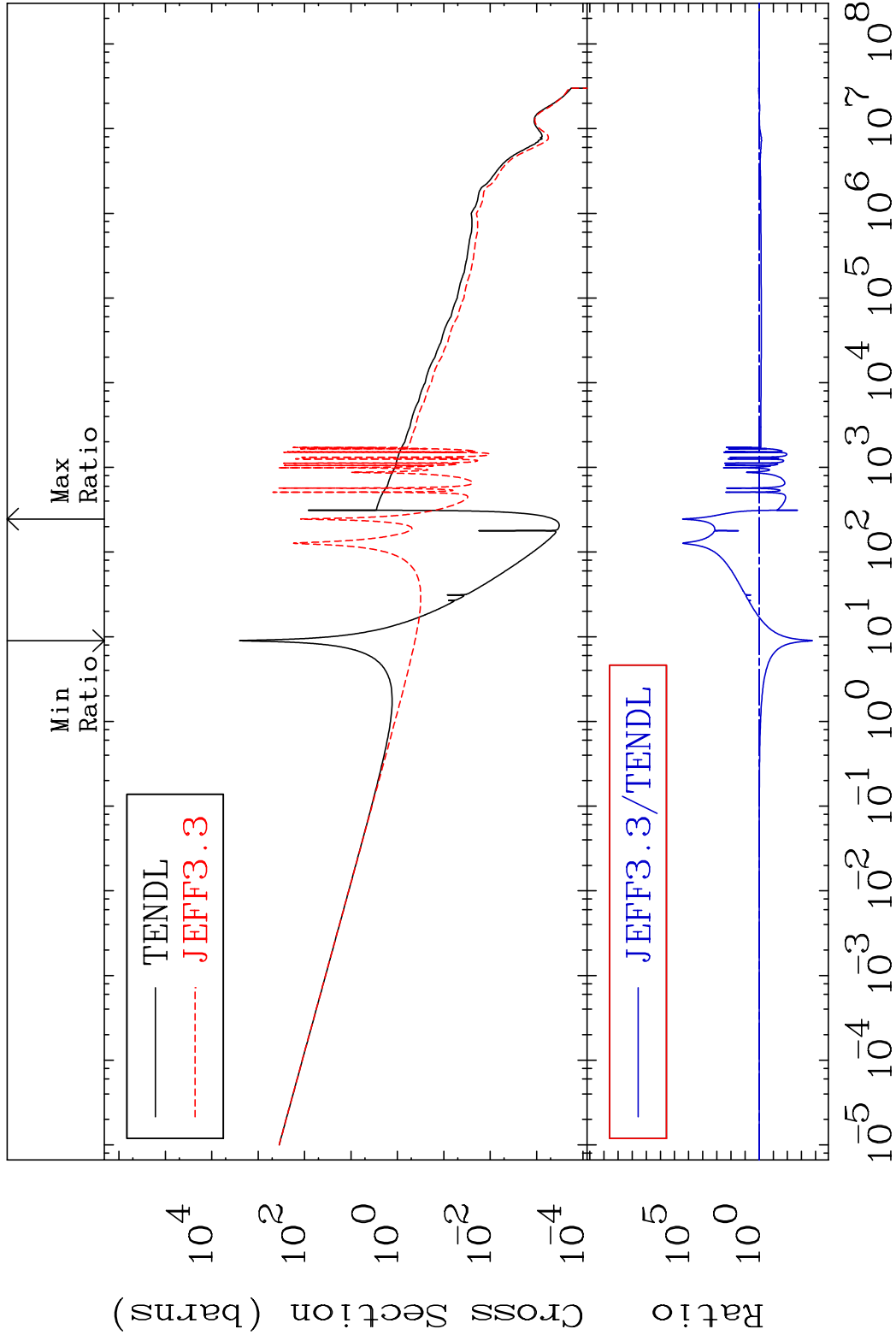


MAT 5143

(n, γ)

51-Sb-127

Cross Section -99.98 To 9999. %

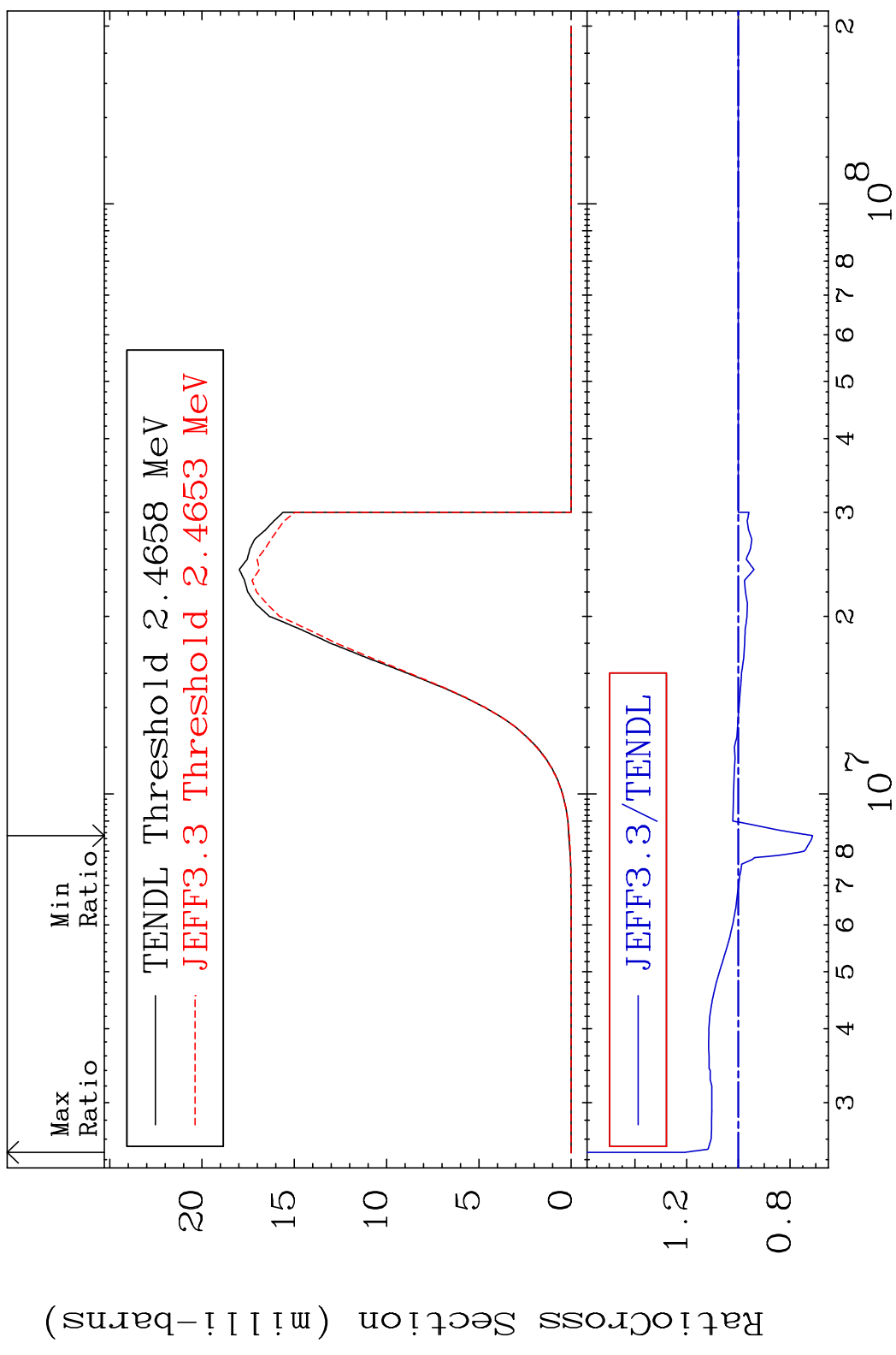


MAT 5143

(n,p)

51-Sb-127

Cross Section -28.74 To 21.68 %



49

Incident Energy (eV)

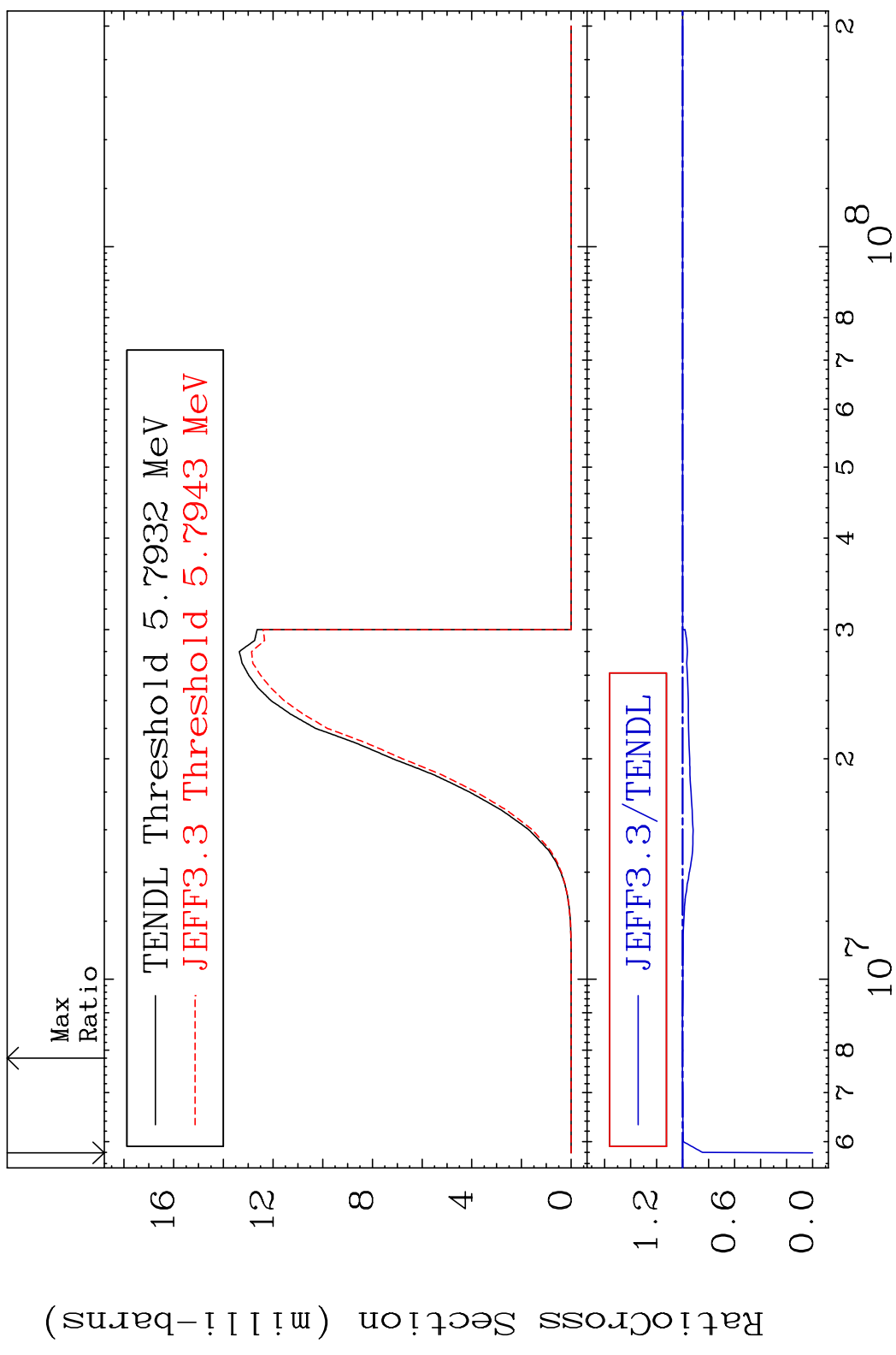
51-Sb-127

MAT 5143

(n,d)

51-Sb-127

Cross Section -100.0 To 0.178 %

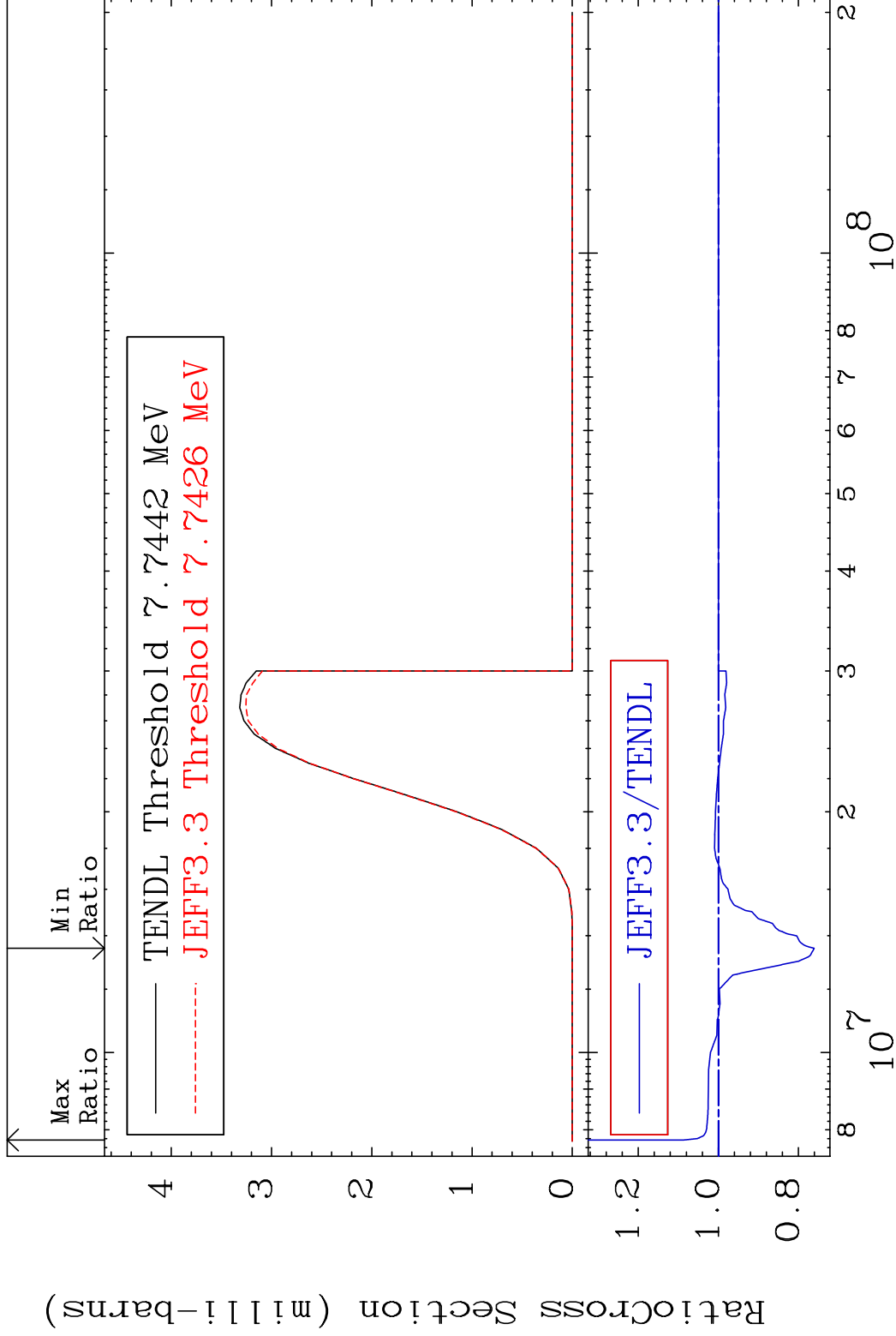


MAT 5143

(n, t)

51-Sb-127

Cross Section -23.92 To 8.668 %

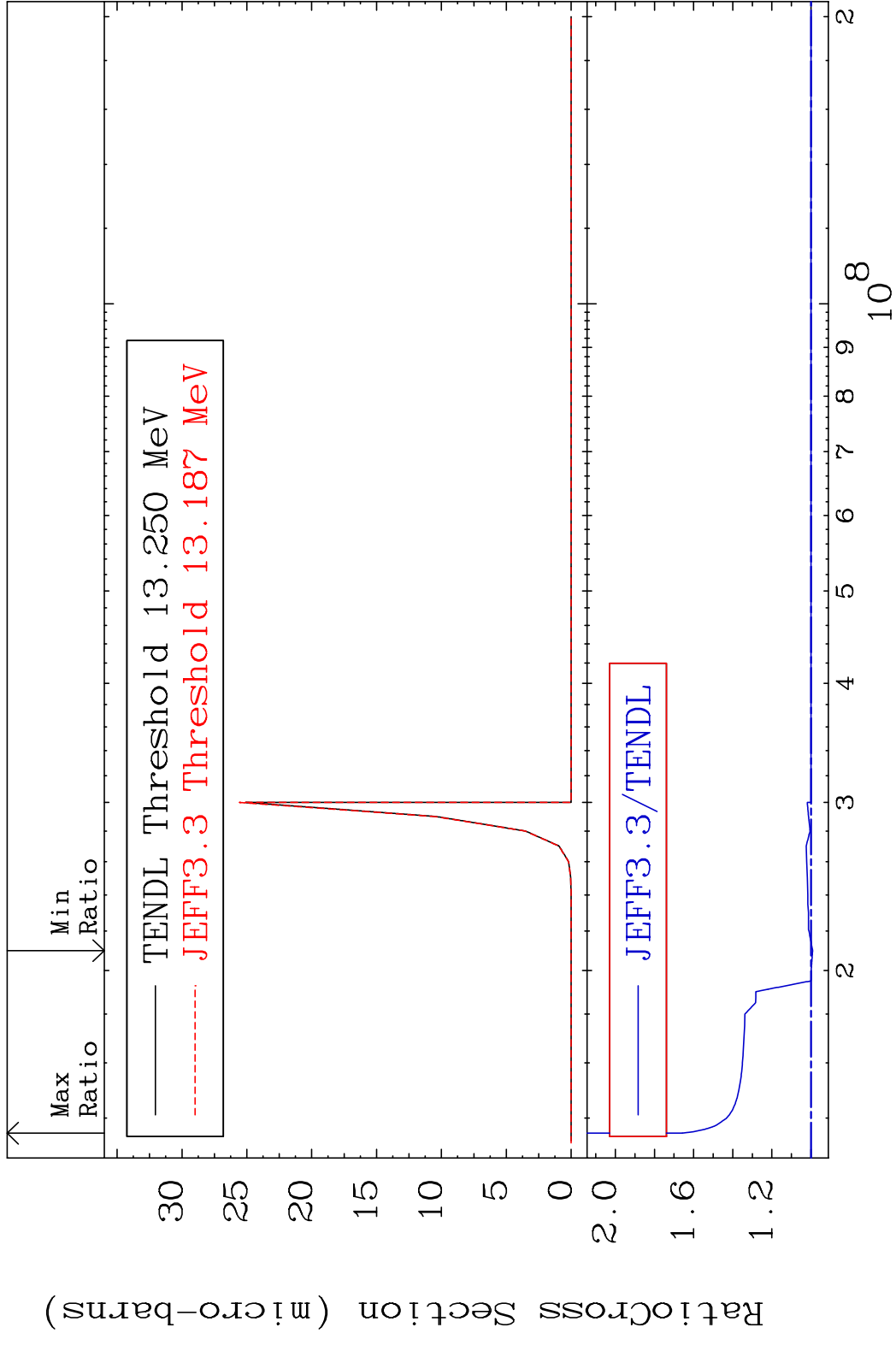


51

Incident Energy (eV)

51-Sb-127

Cross Section -0.7777 To 65.76 %

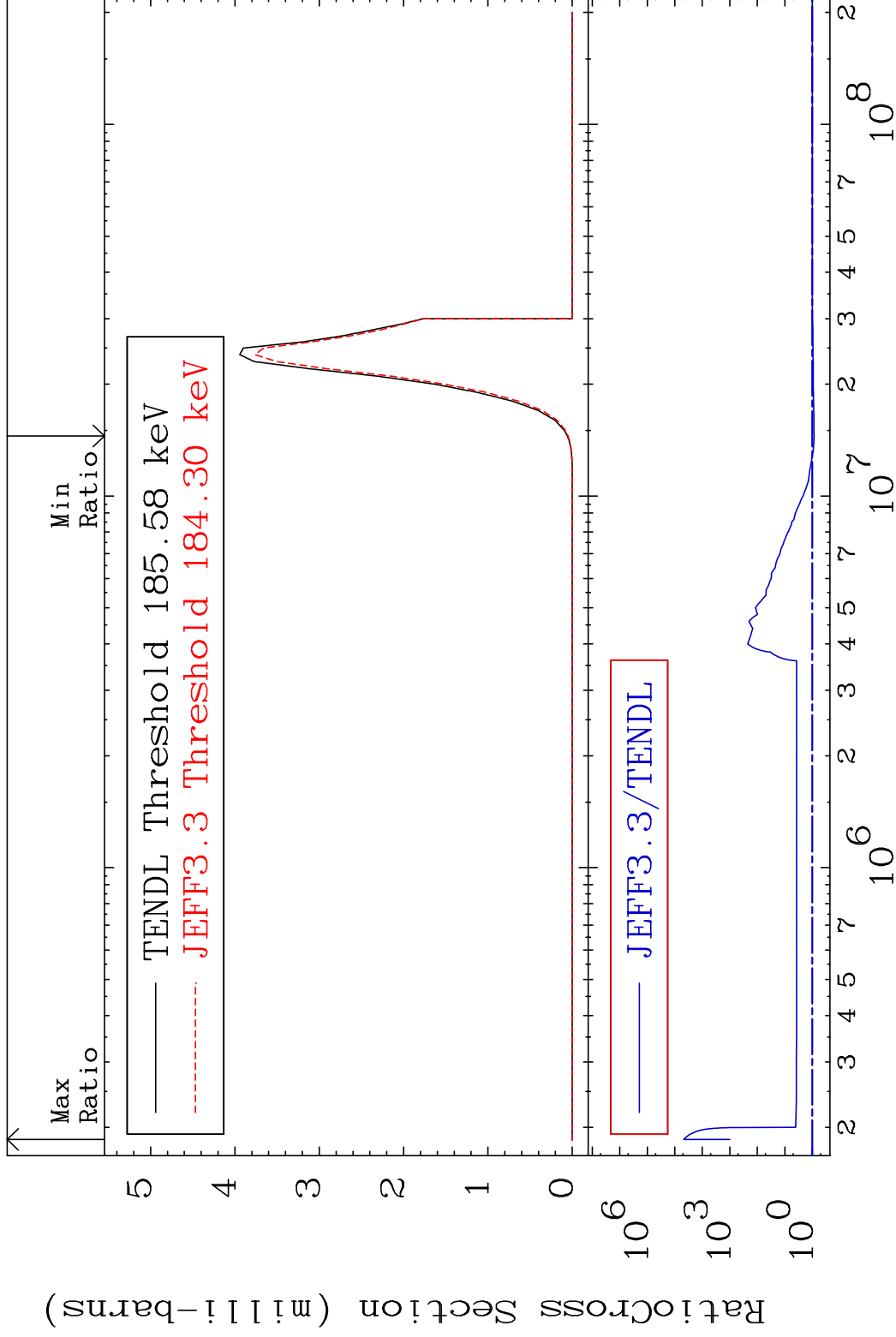


MAT 5143

(n, α)

51-Sb-127

Cross Section -13.93 To 9999. %

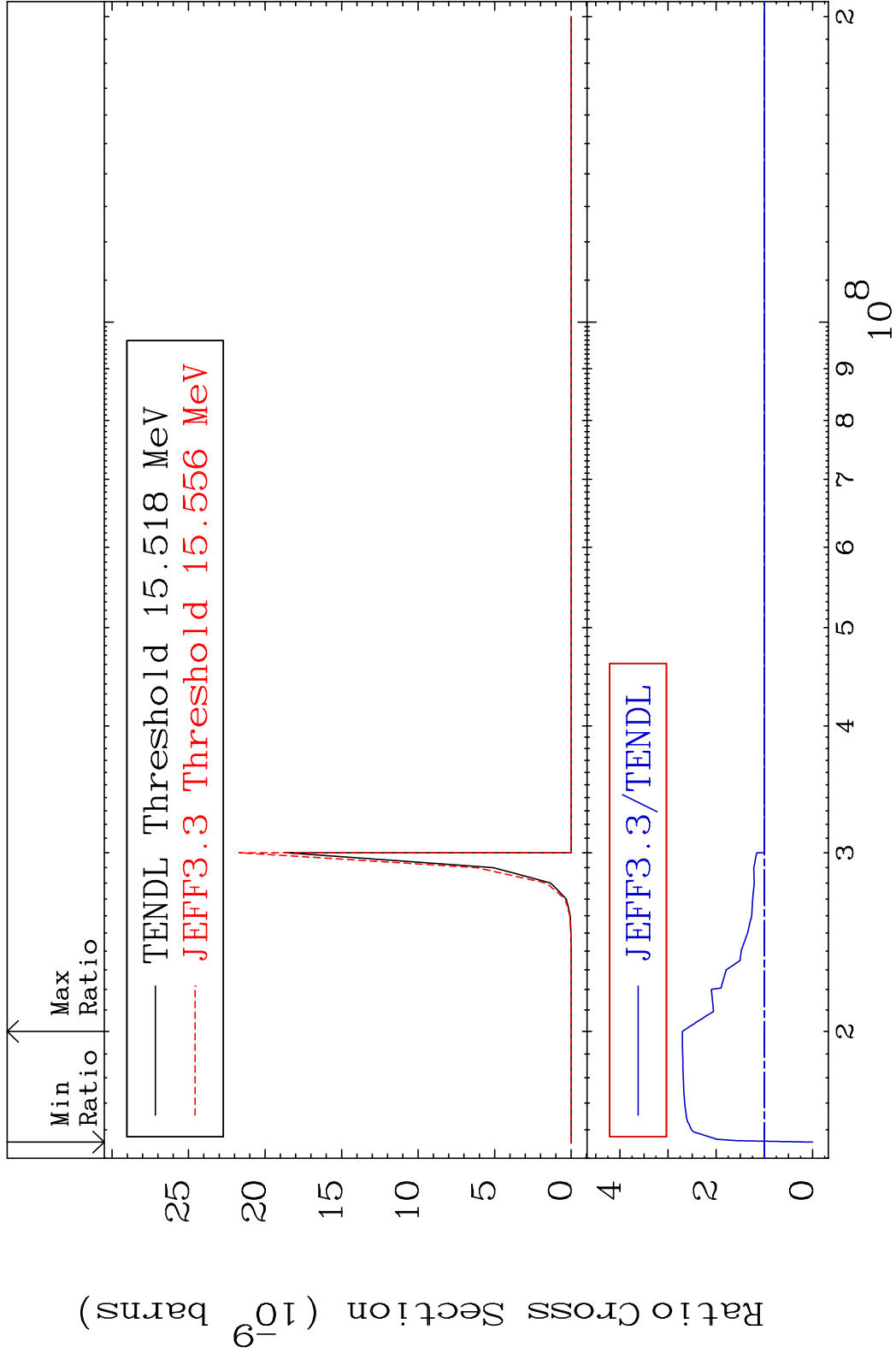


MAT 5143

(n,2p)

51-Sb-127

Cross Section -100.0 To 170.3 %



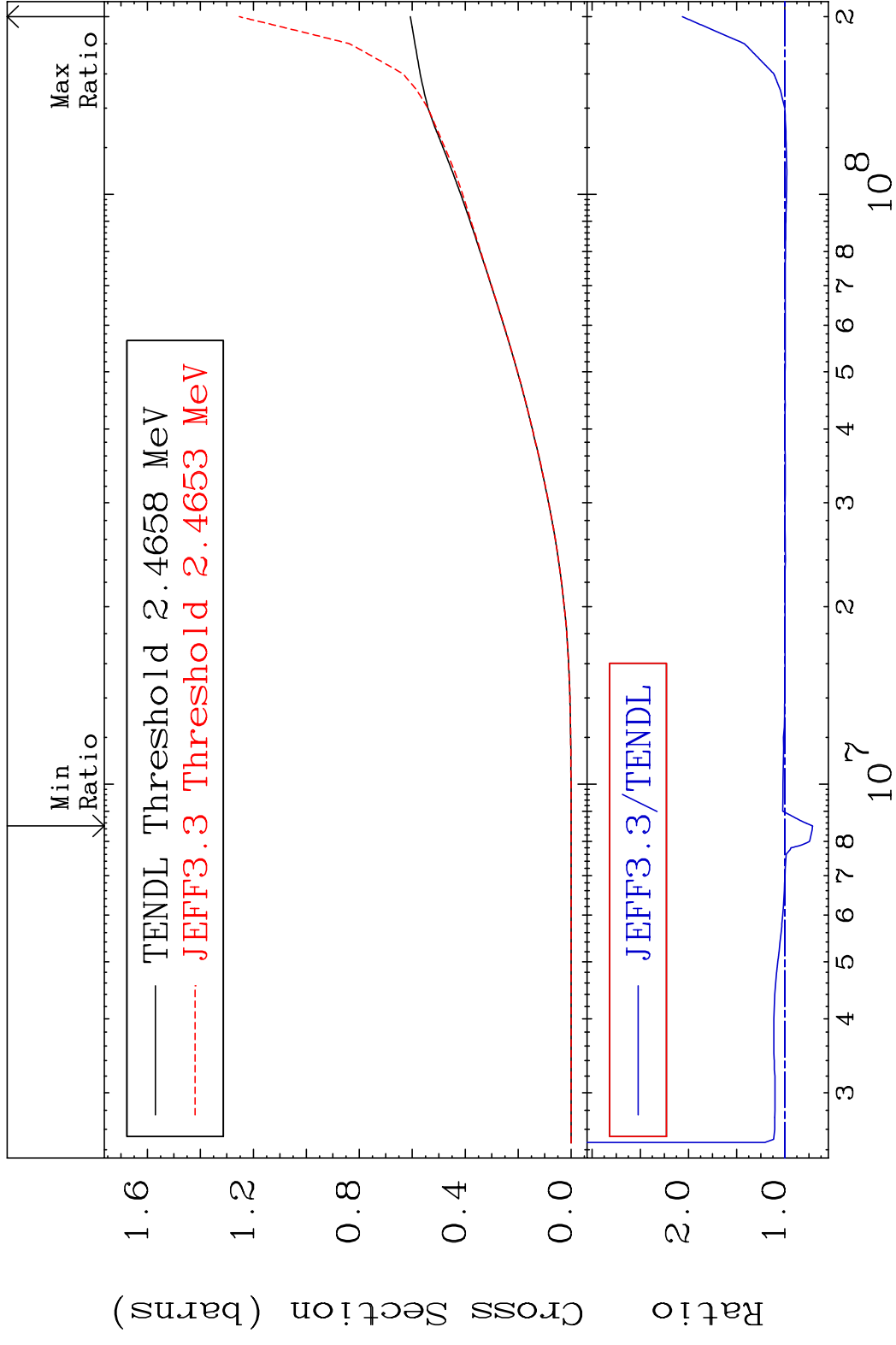
MAT 5143

Hydrogen Production

51-Sb-127

Cross Section

-28.74 To 106.4 %

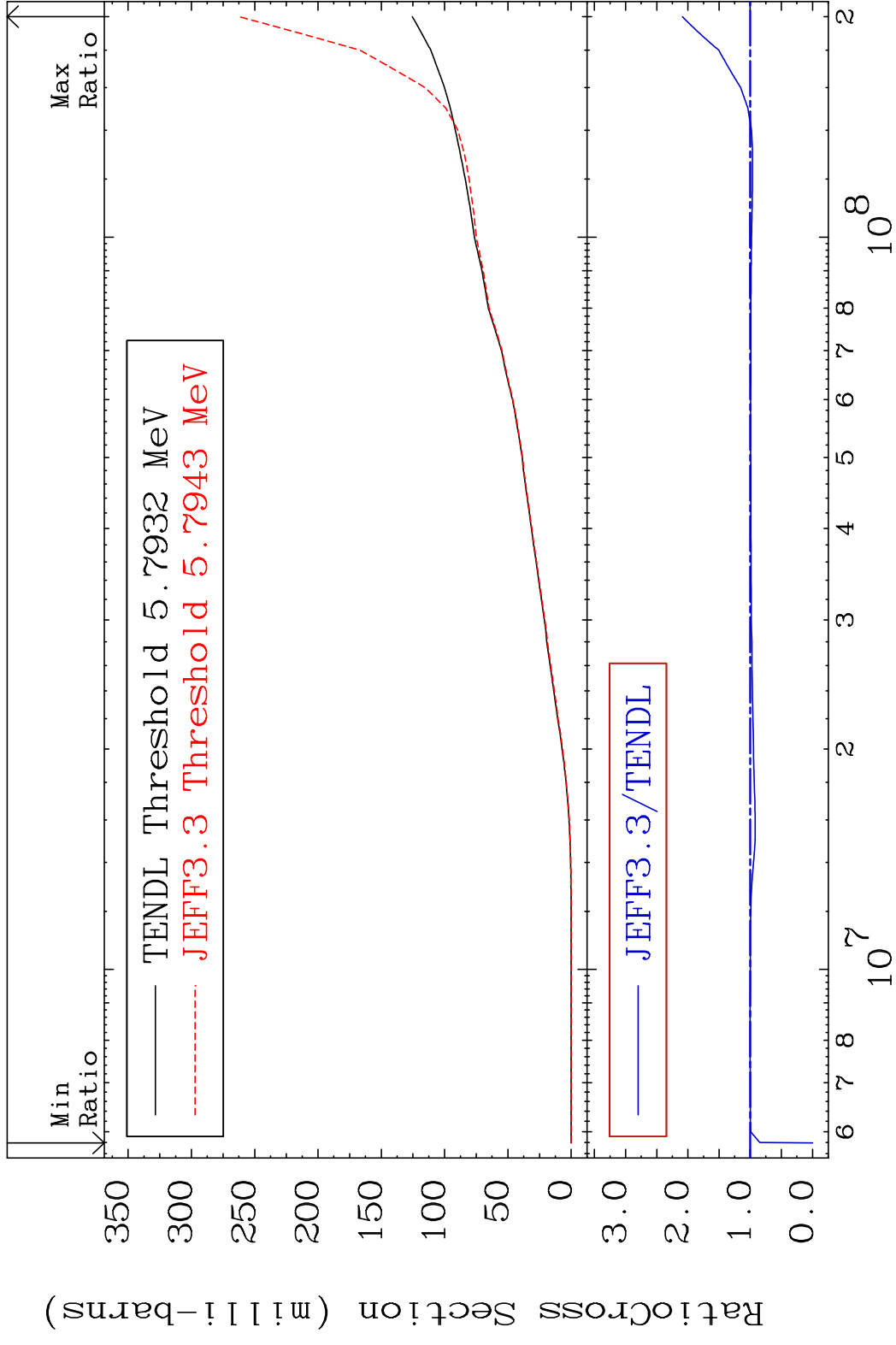


MAT 5143

Deuterium Production

51-Sb-127

Cross Section -100.0 To 108.9 %



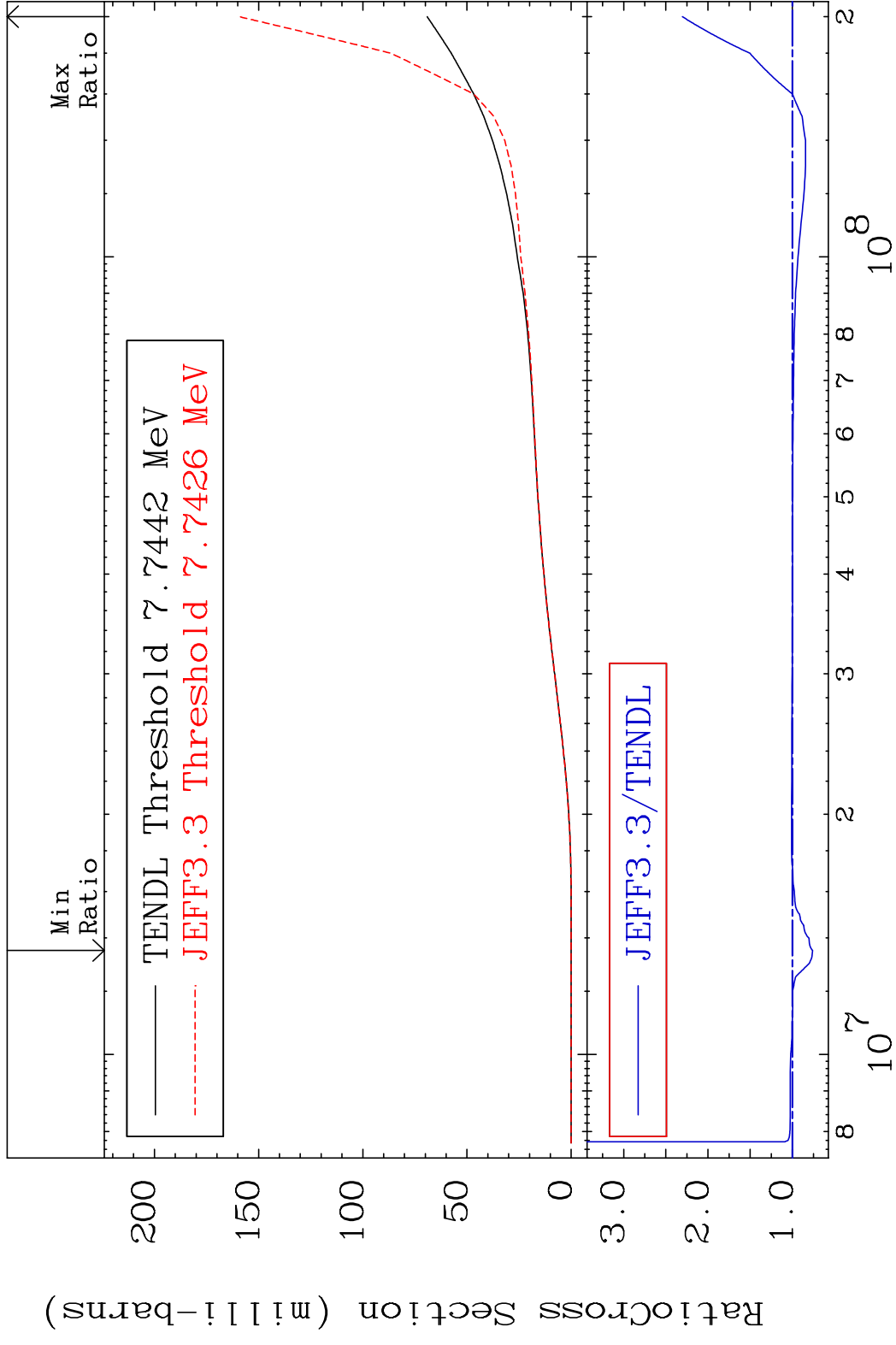
MAT 5143

Tritium Production

51-Sb-127

Cross Section

-23.92 To 130.4 %

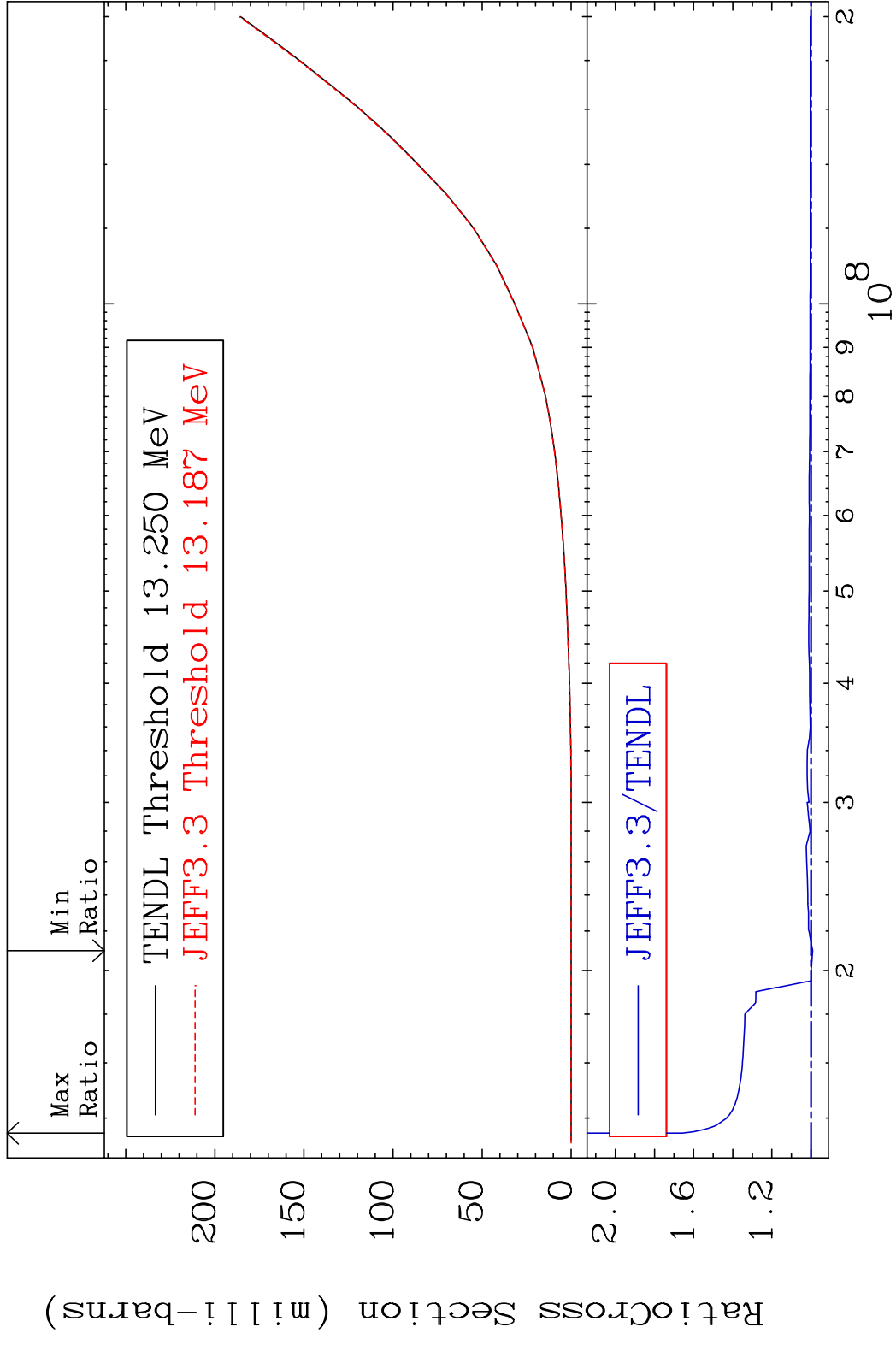


MAT 5143

He-3 Production

51-Sb-127

Cross Section -0.7777 To 65.76 %



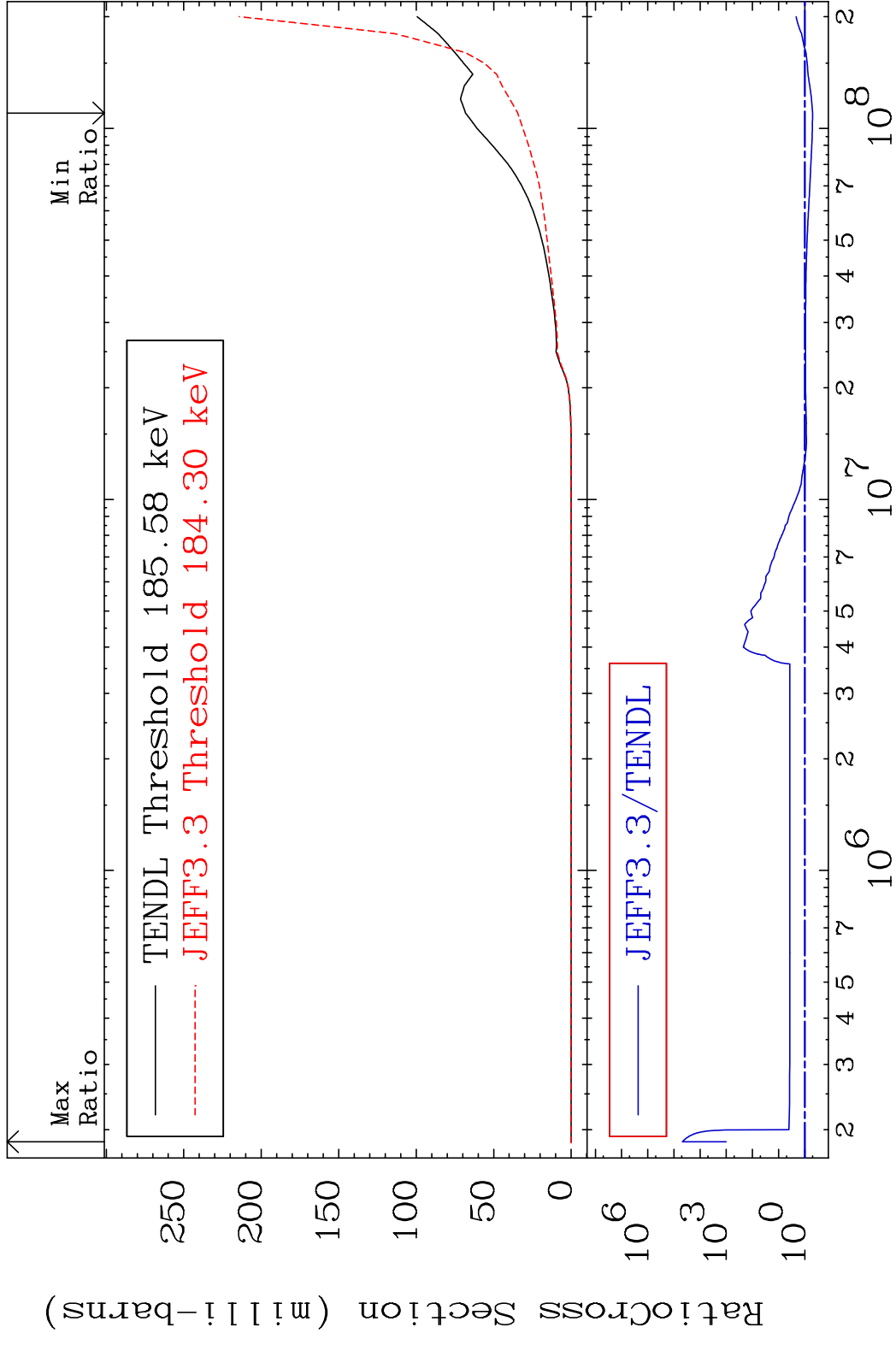
MAT 5143

He-4 Production

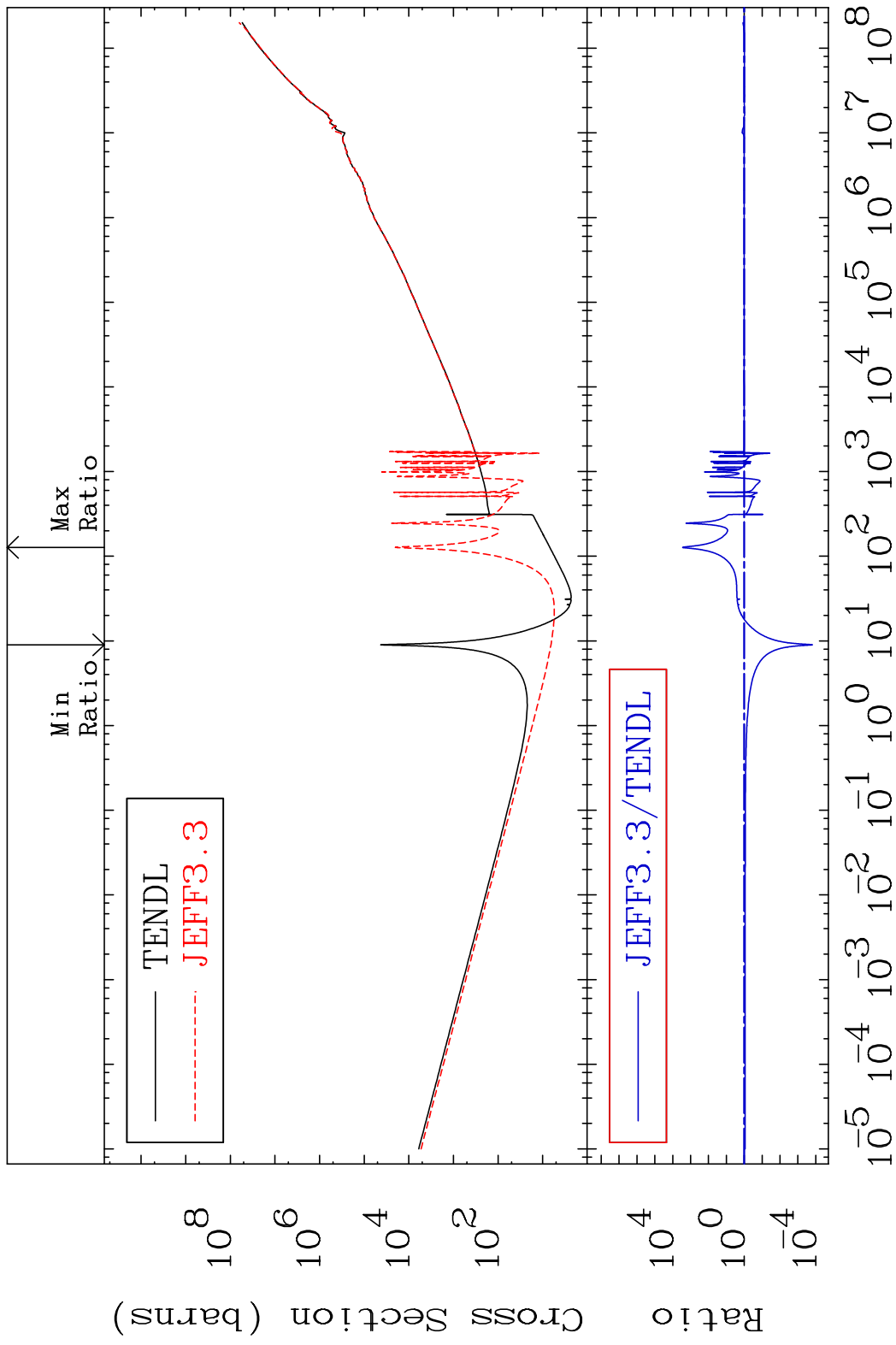
51-Sb-127

Cross Section

-49.39 To 9999. %

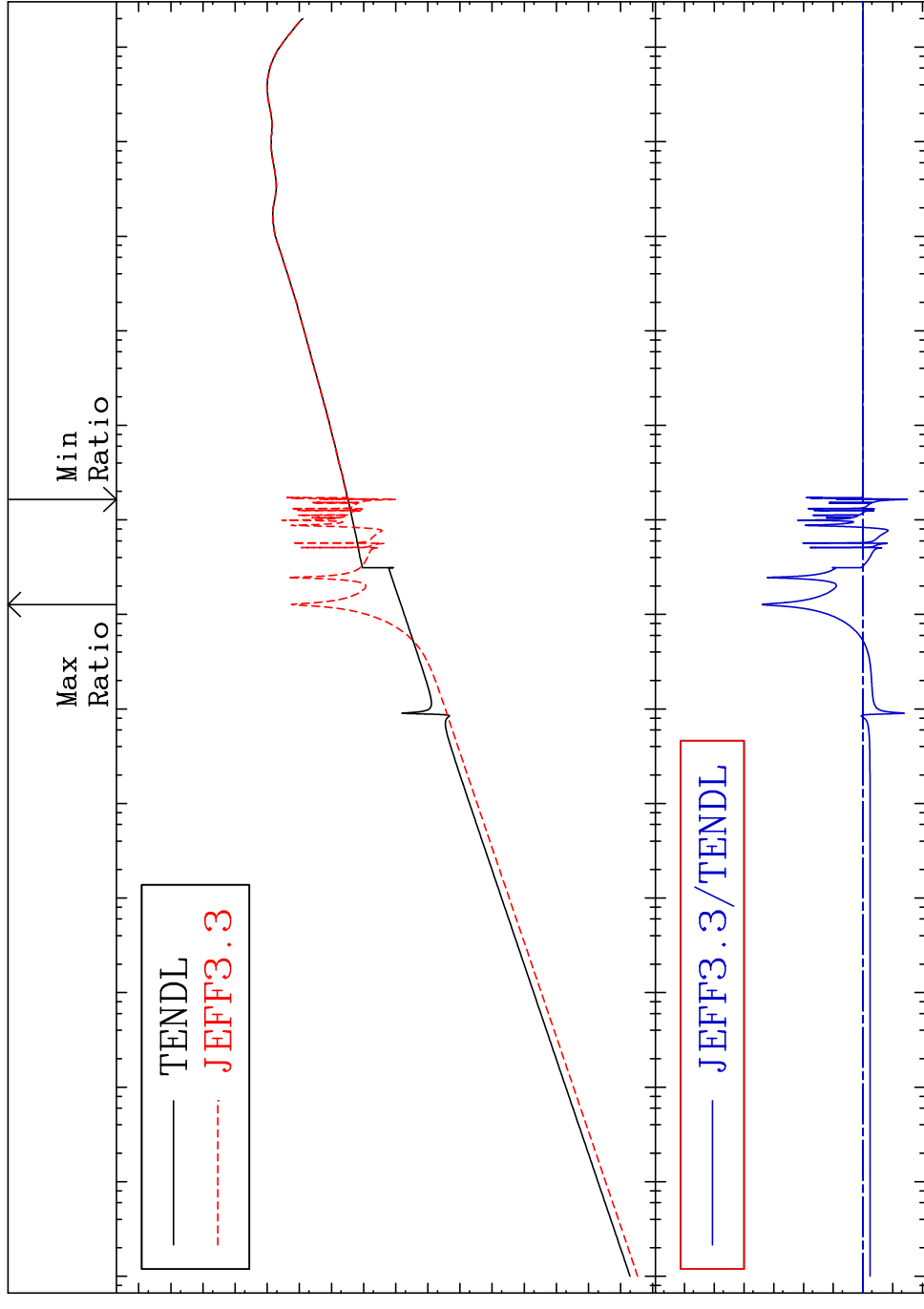


MAT 5143 Kerma total (eV-barns) 51-Sb-127
 Cross Section -99.98 To 9999. %



MAT 5143

Kerma elastic Cross Section -96.73 To 9999. %

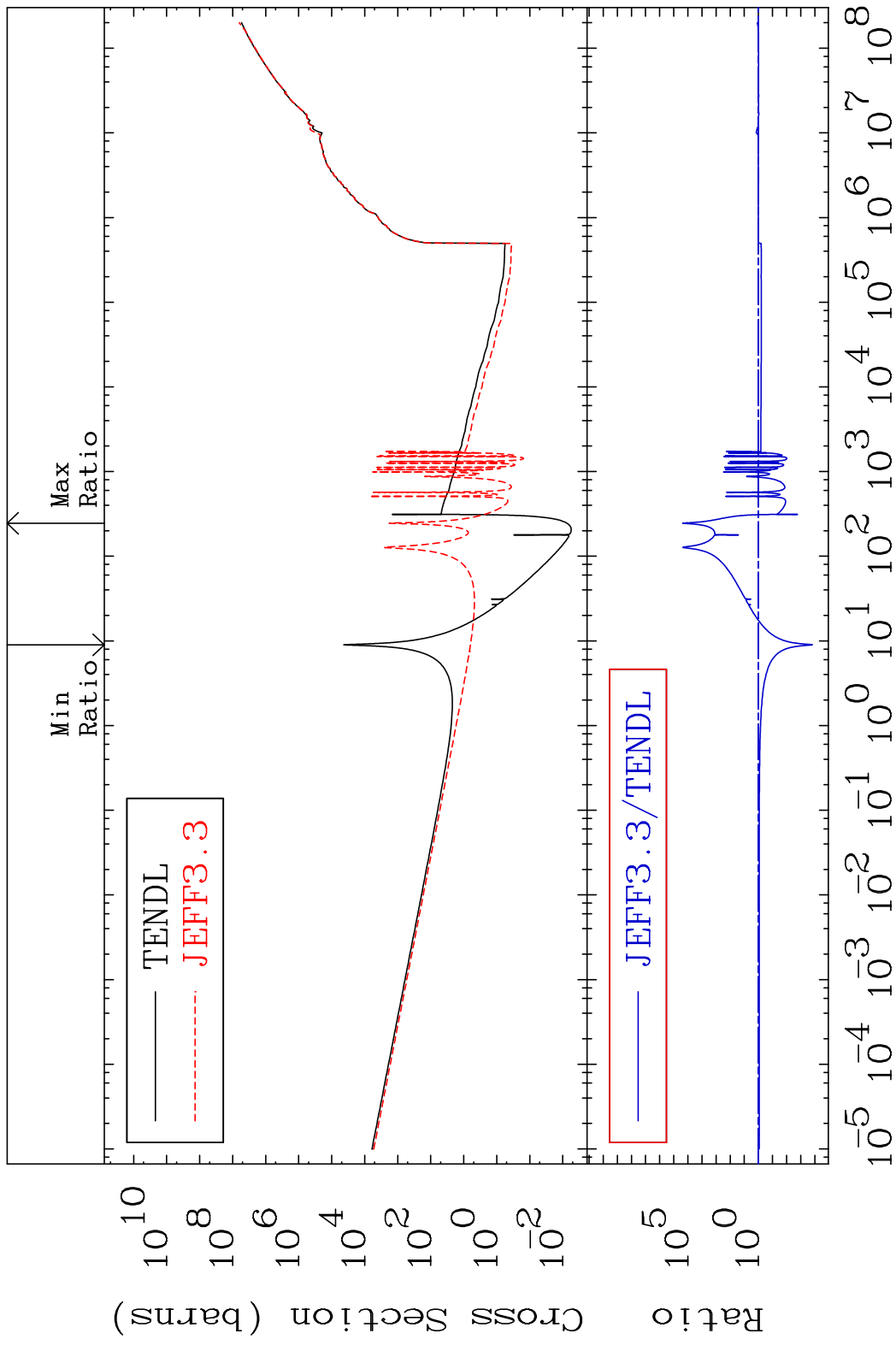


61

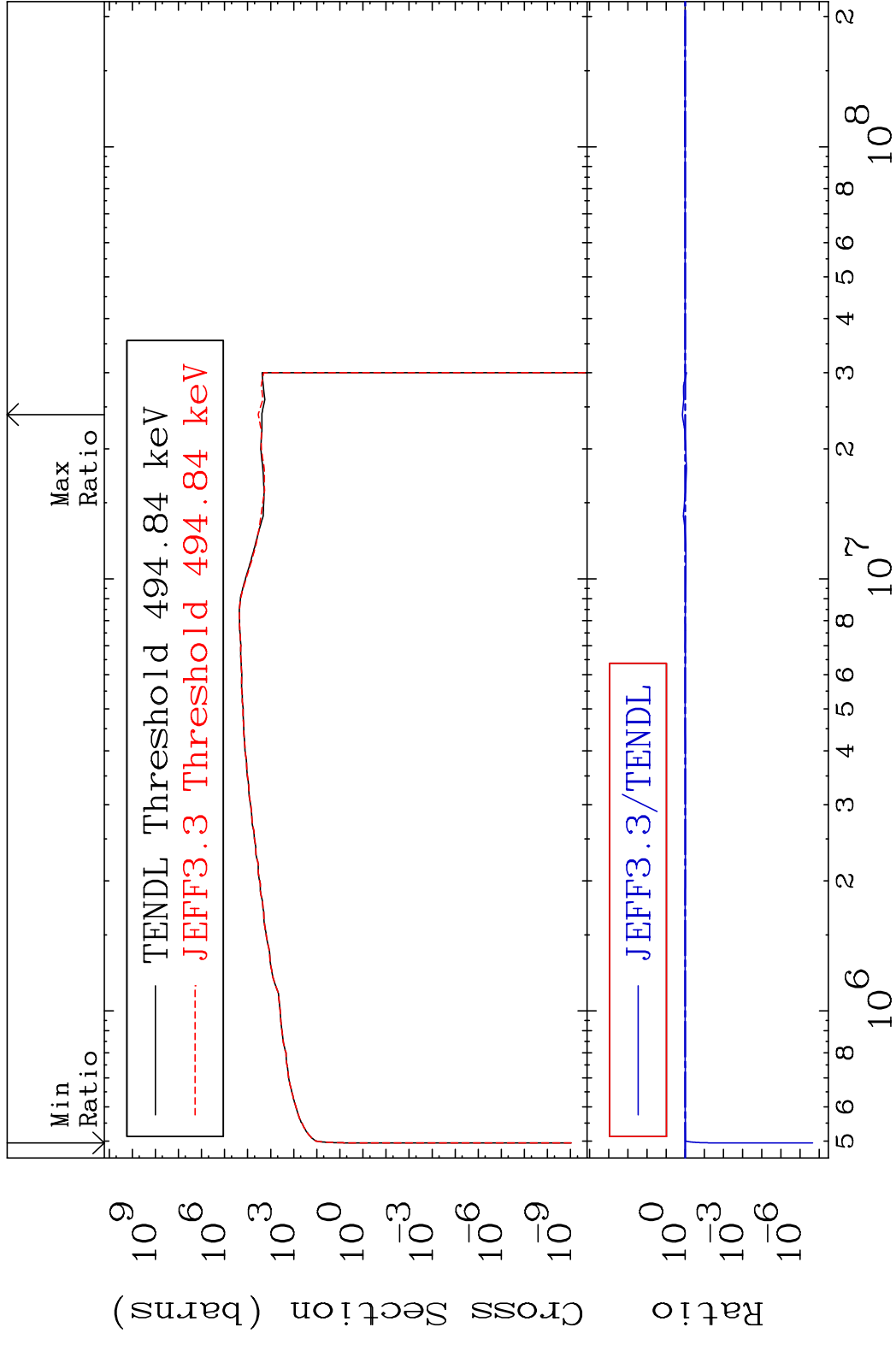
Incident Energy (eV)

51-Sb-127

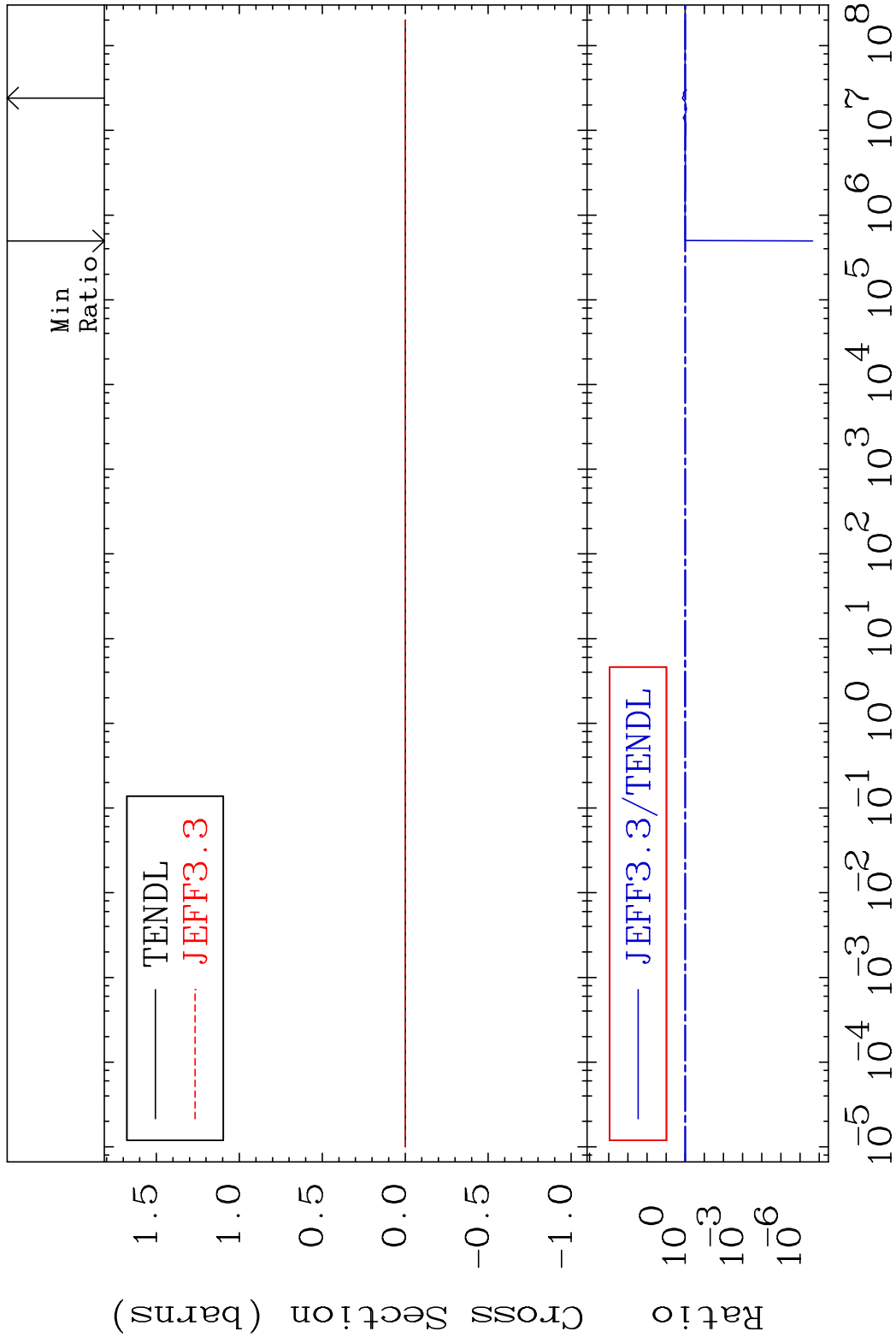
MAT 5143 Kerma non-elastic (all but mt2) 51-Sb-127
 Cross Section -99.99 To 9999. %



MAT 5143 Kerma inelastic (mt51-91) 51-Sb-127
 Cross Section -100.0 To 41.52 %

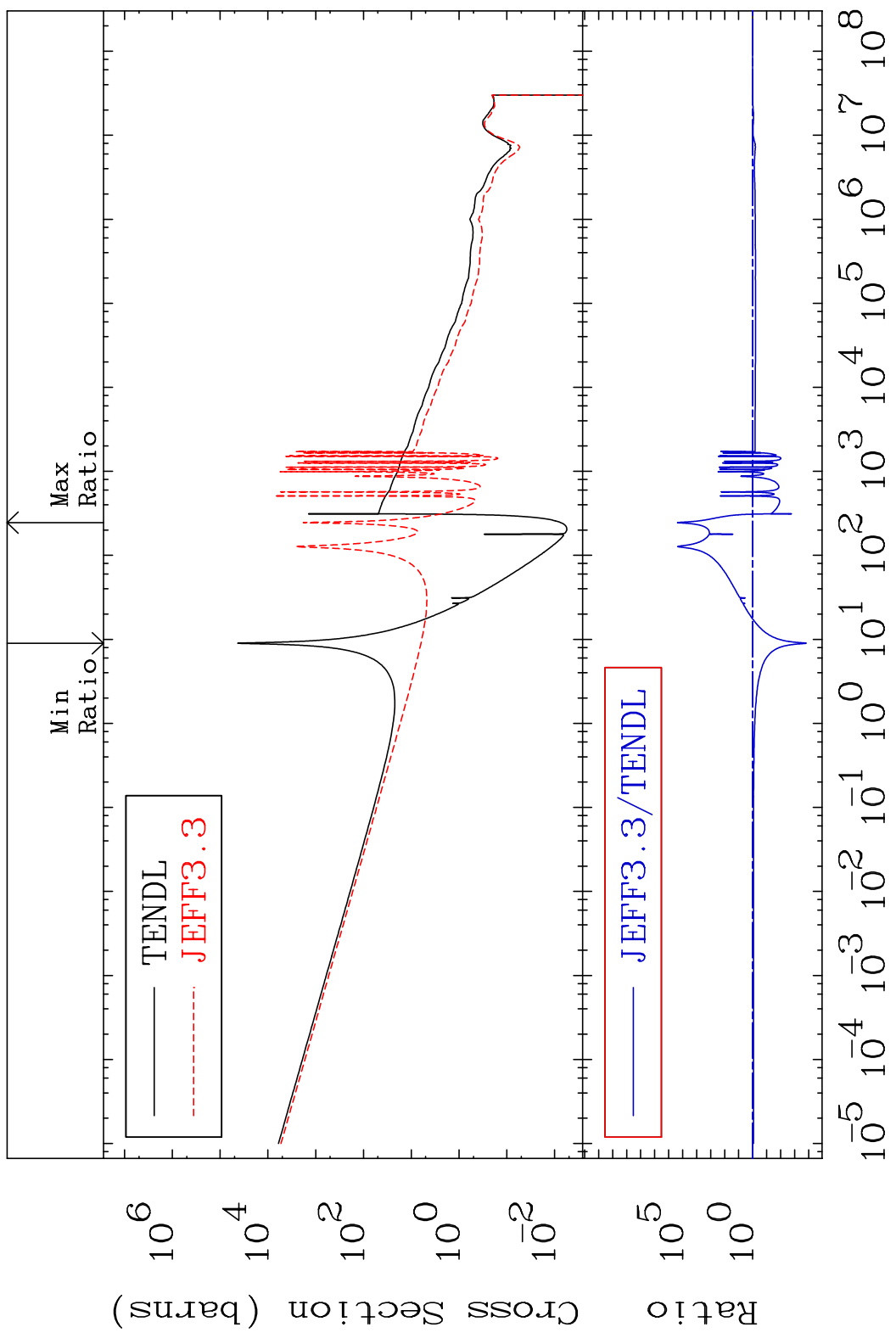


MAT 5143 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-127
 Cross Section -100.0 To 41.52 %



MAT 5143

Kerma capture (mt102) 51-Sb-127
Cross Section -99.99 To 9999. %



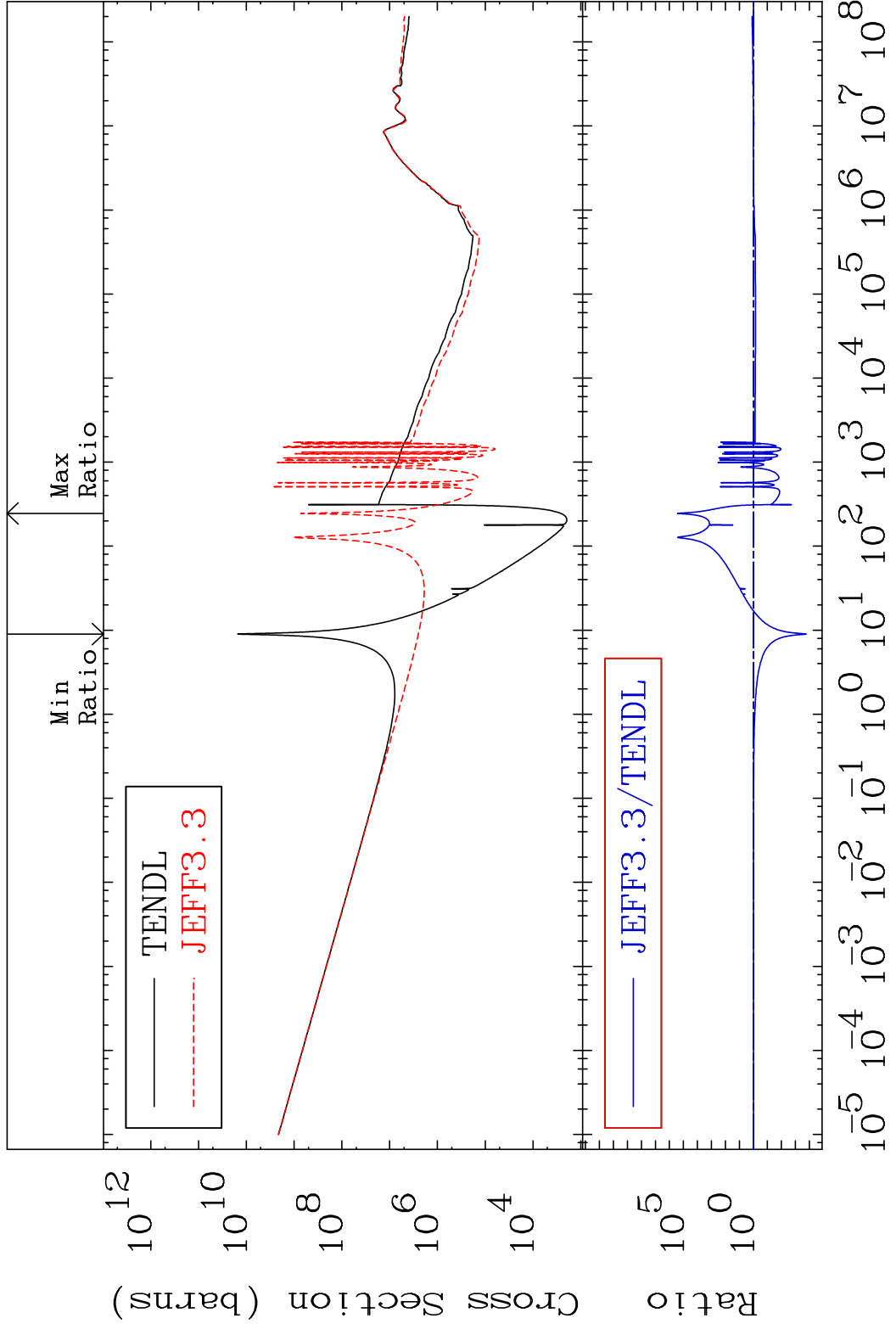
65

Incident Energy (eV)

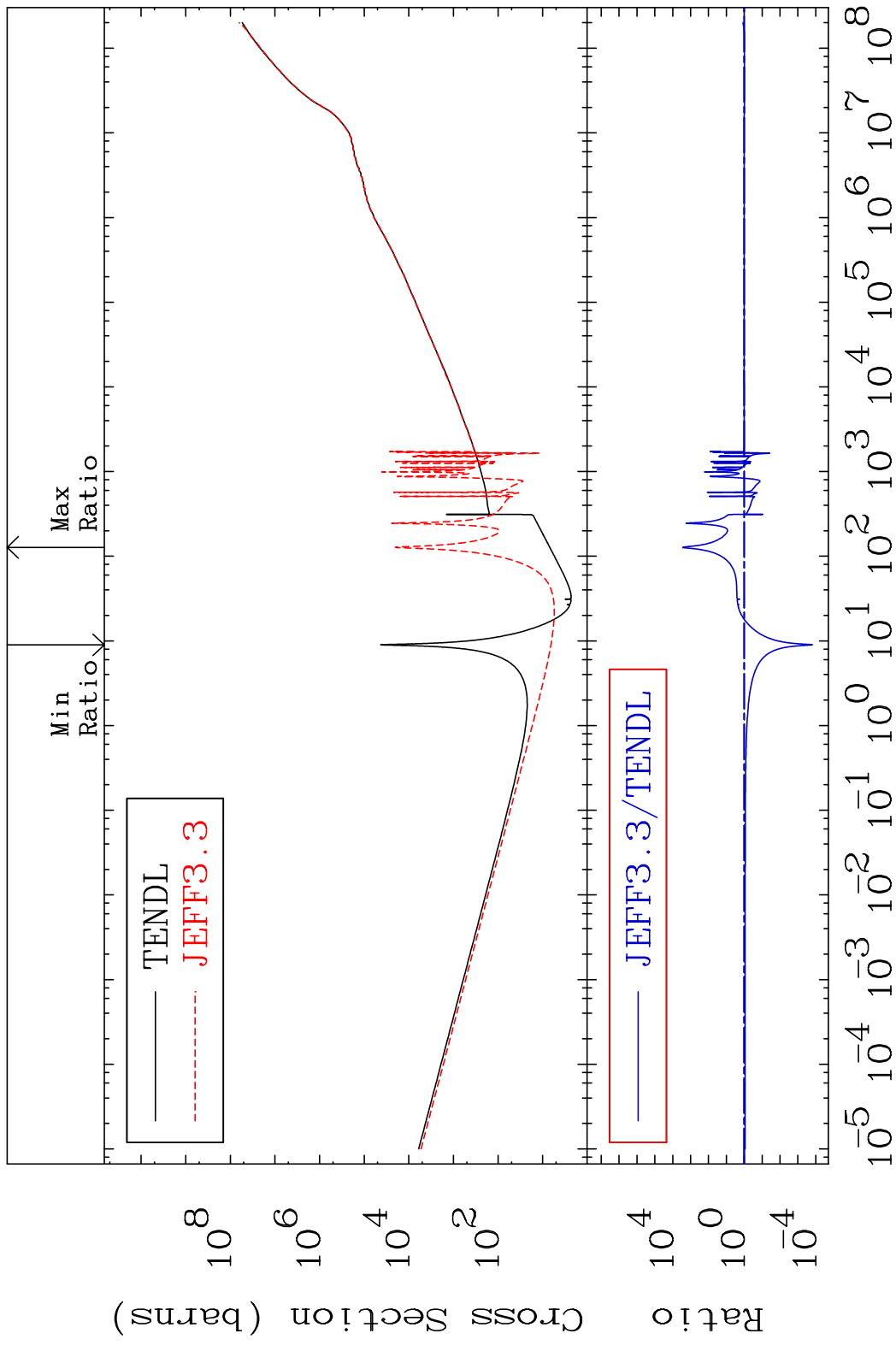
51-Sb-127

MAT 5143

Total photon (eV-barns) 51-Sb-127
Cross Section -99.98 To 9999. %



MAT 5143 Total kinematic kerma (high limit) 51-Sb-127
 Cross Section -99.98 To 9999. %

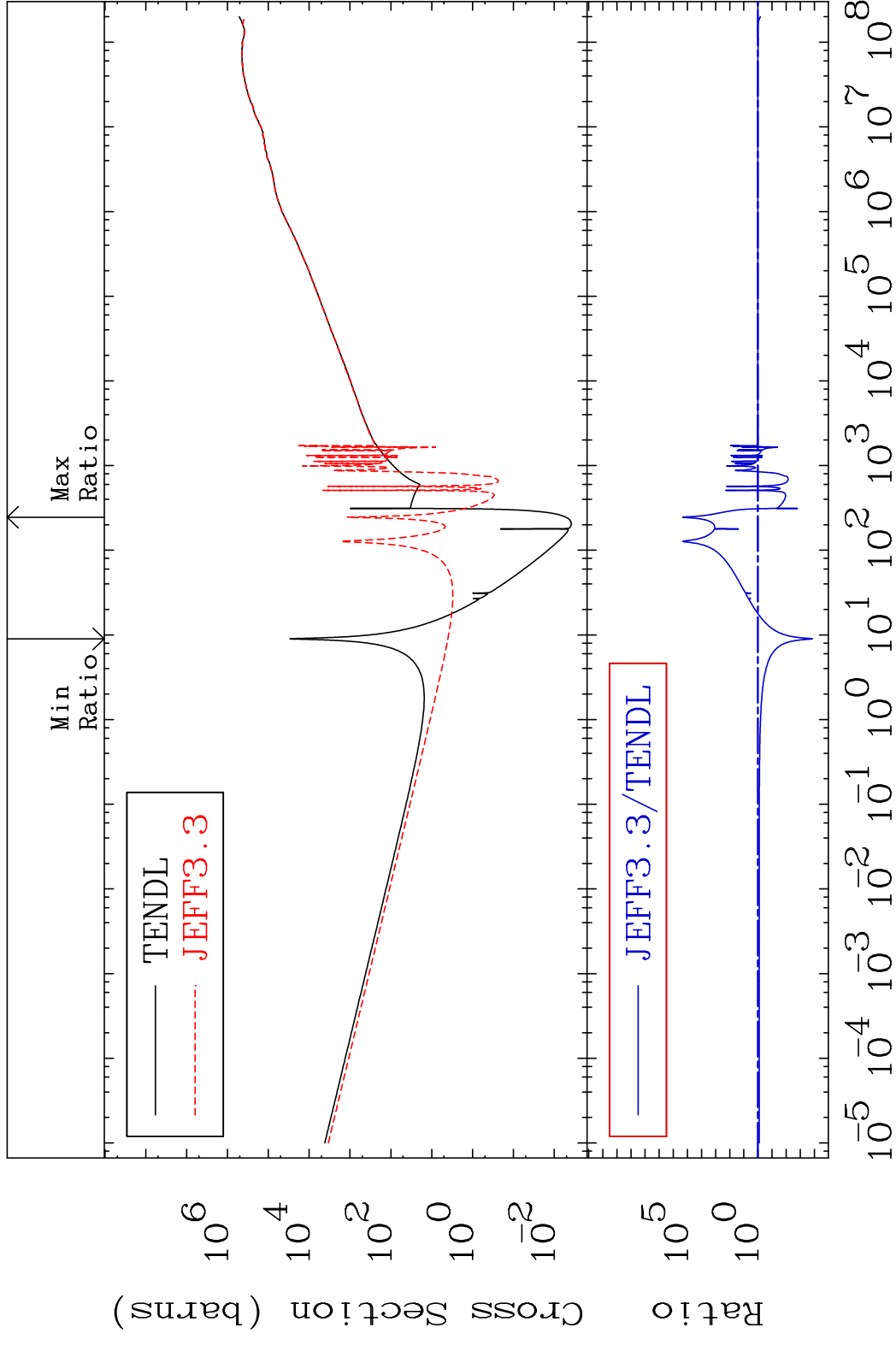


MAT 5143

Dpa total (eV-barns)

51-Sb-127

Cross Section -99.99 To 9999. %

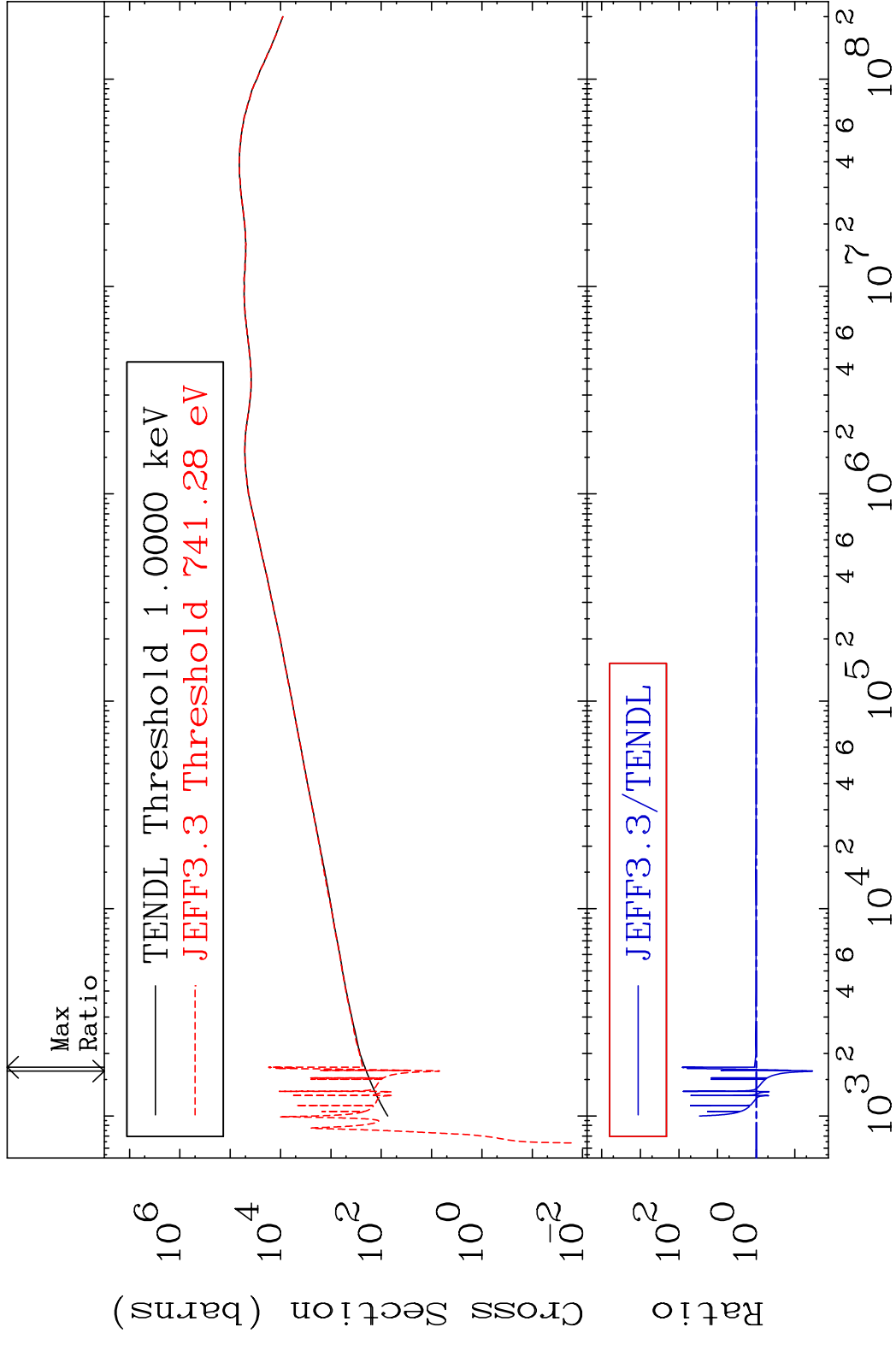


MAT 5143

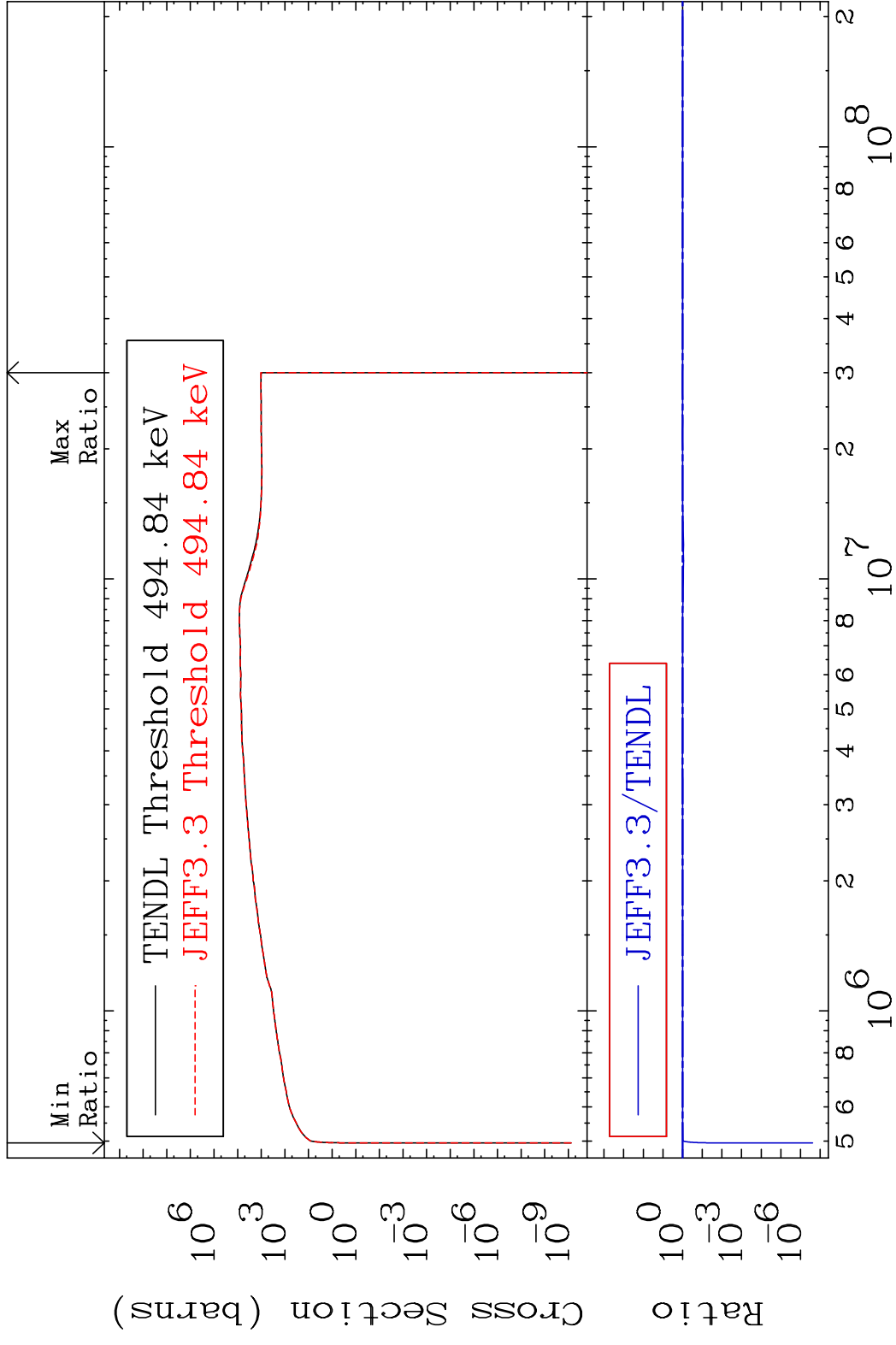
Dpa elastic (mt2)

51-Sb-127

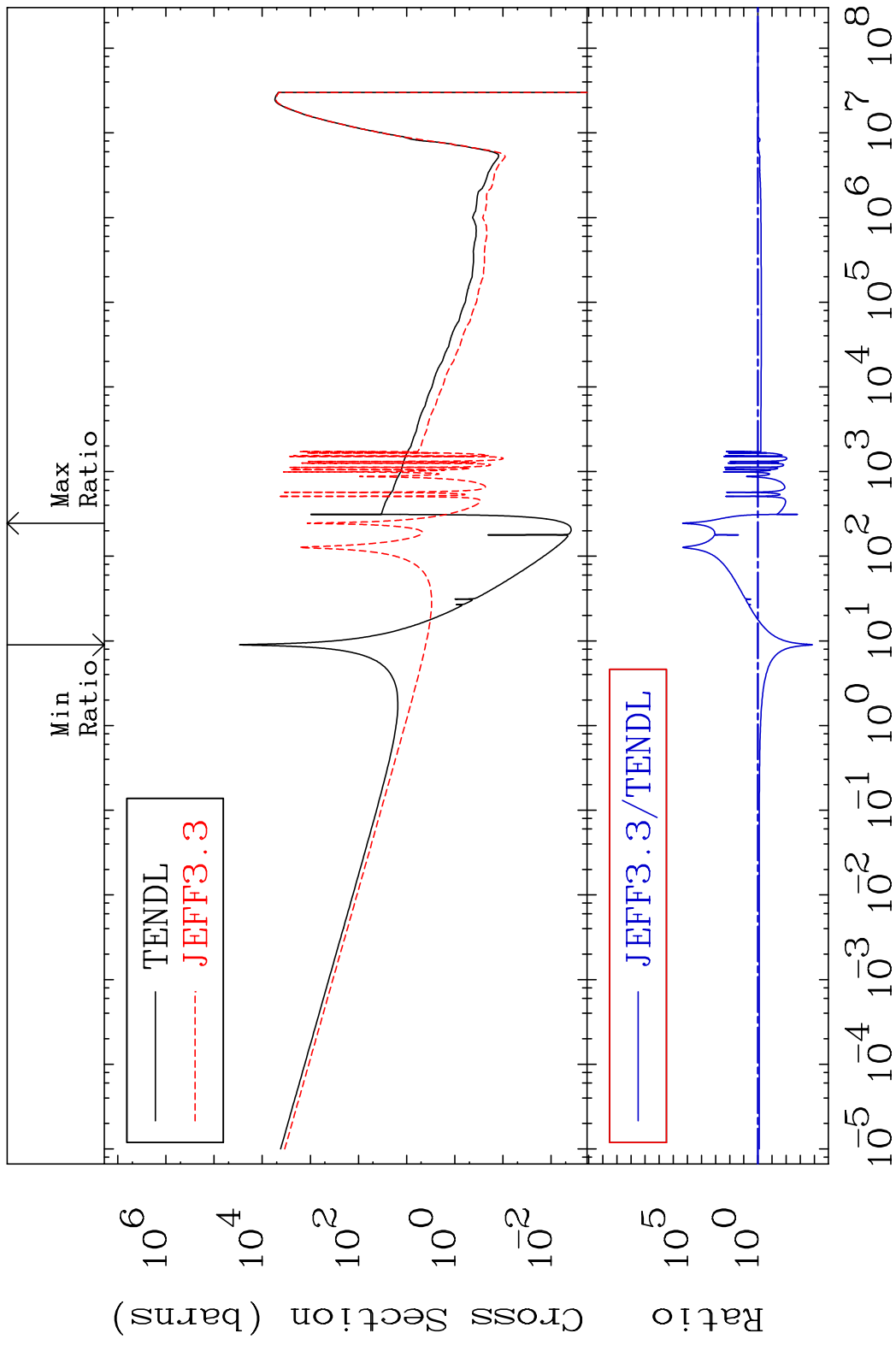
Cross Section -96.52 To 8069. %



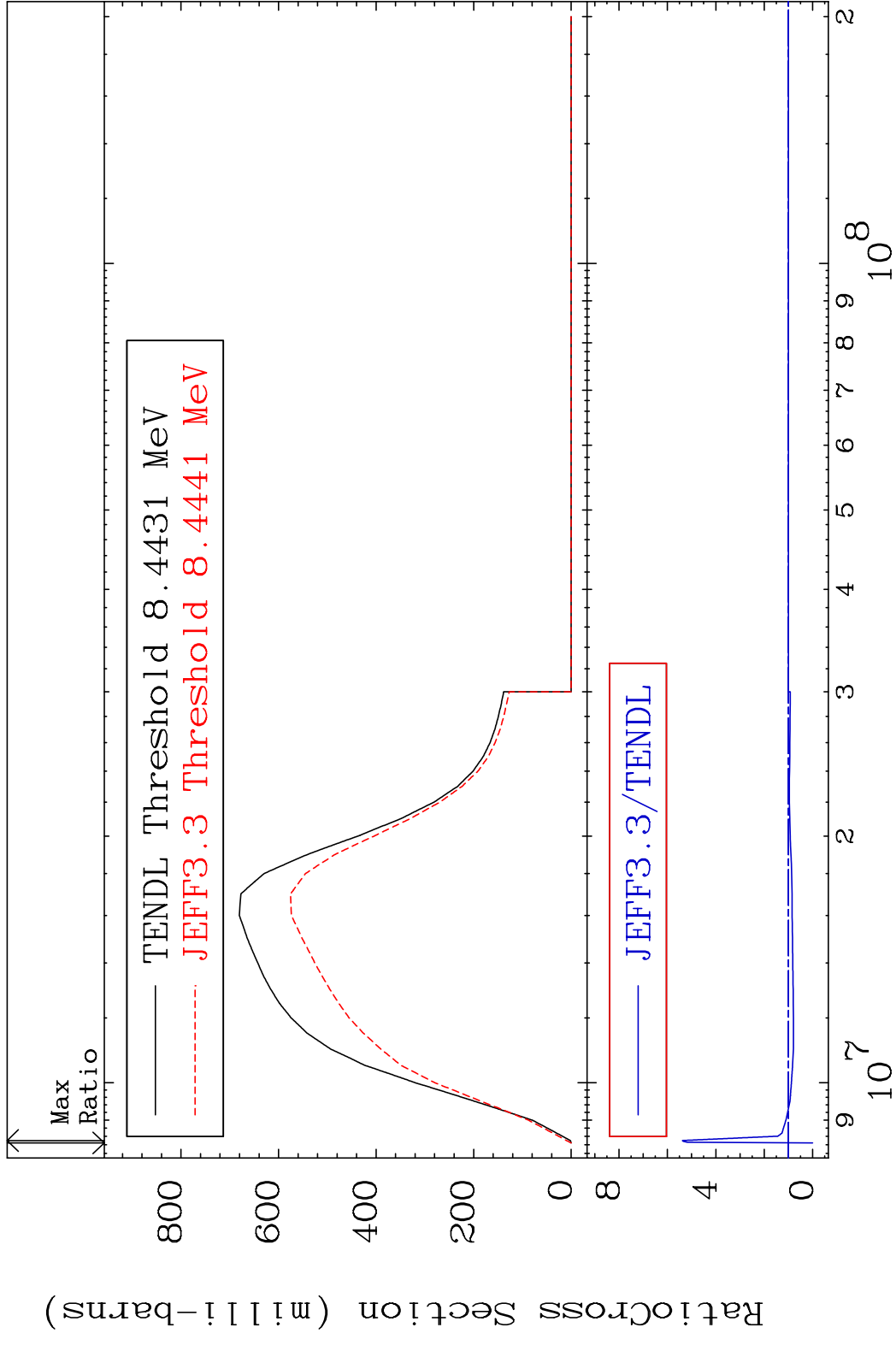
MAT 5143 Dpa inelastic (mt51-91) 51-Sb-127
 Cross Section -100.0 To 2.996 %



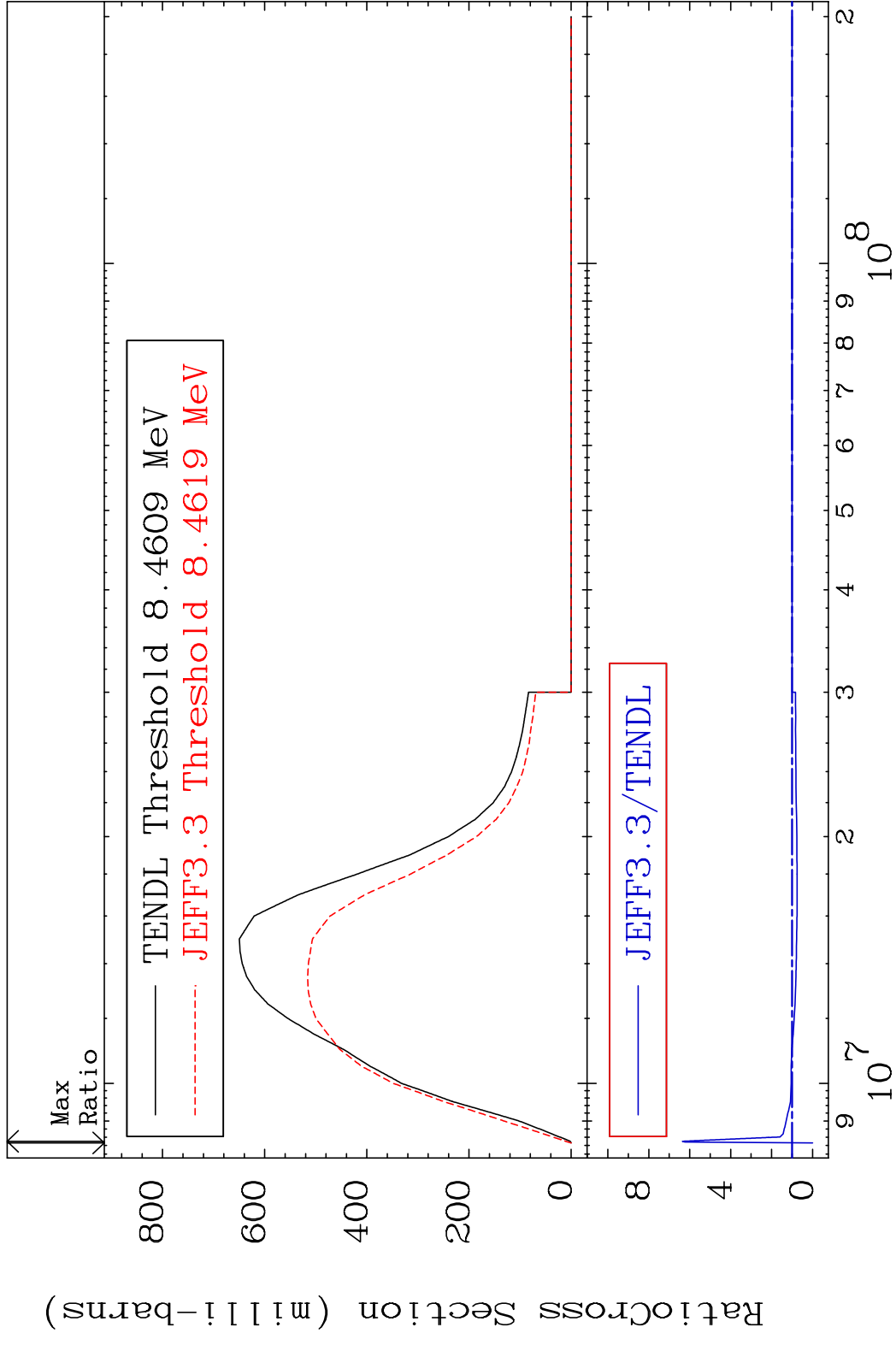
MAT 5143 Dpa disappearance (mt102 -120) 51-Sb-127
 Cross Section -99.99 To 9999. %



MAT 5143 (n,2n):51-Sb-126g 51-Sb-127
 Radionuclide Production Cross Section 180.01 dth 438.3 %

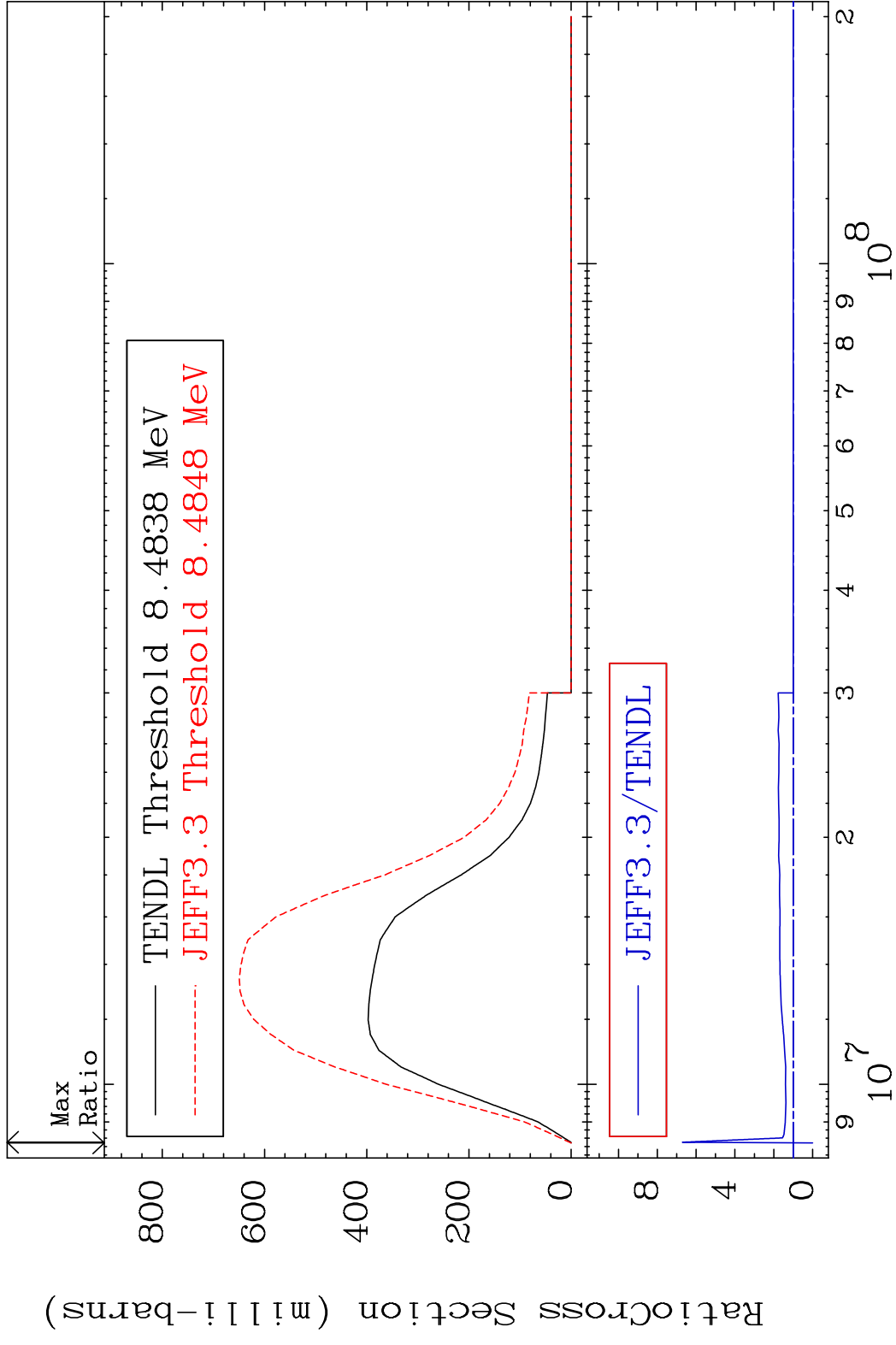


MAT 5143 (n,2n):51-Sb-126m1 51-Sb-127
 Radionuclide Production Cross Section 180.0 dth 536.0 %

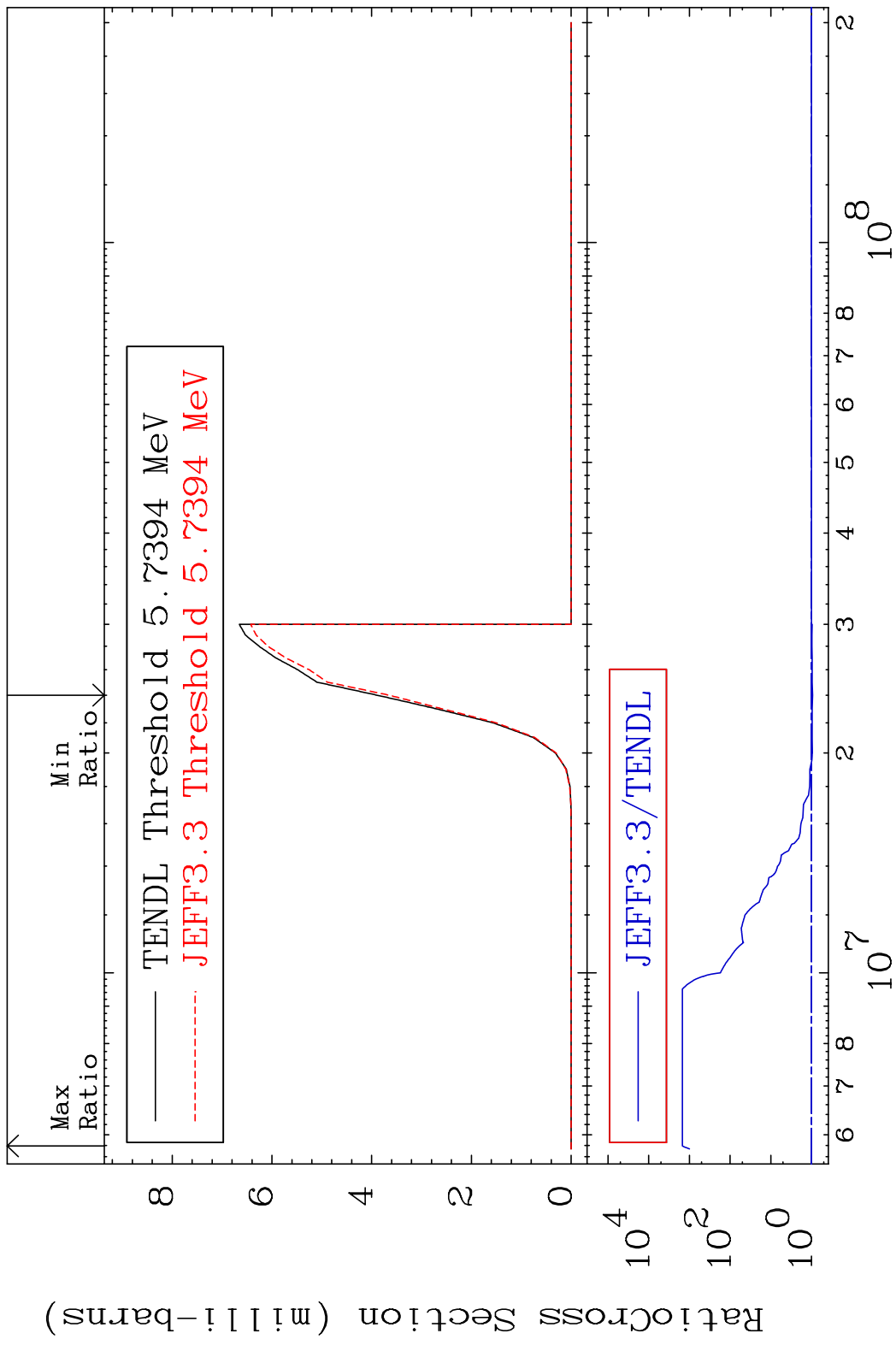


73 Incident Energy (eV) 51-Sb-127

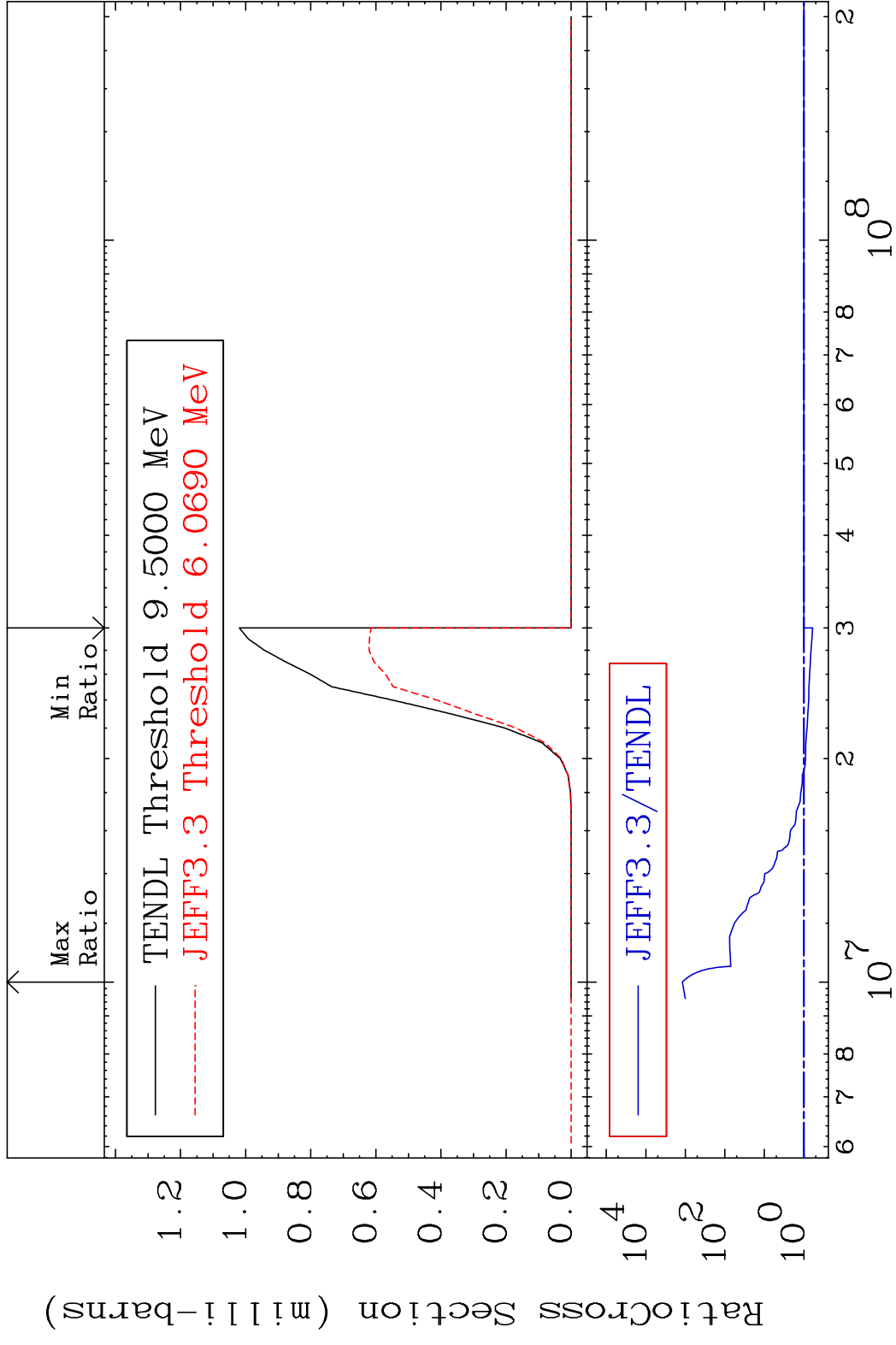
MAT 5143 (n,2n):51-Sb-126m2 51-Sb-127
 Radionuclide Production Cross Section Ratio 571.1 %

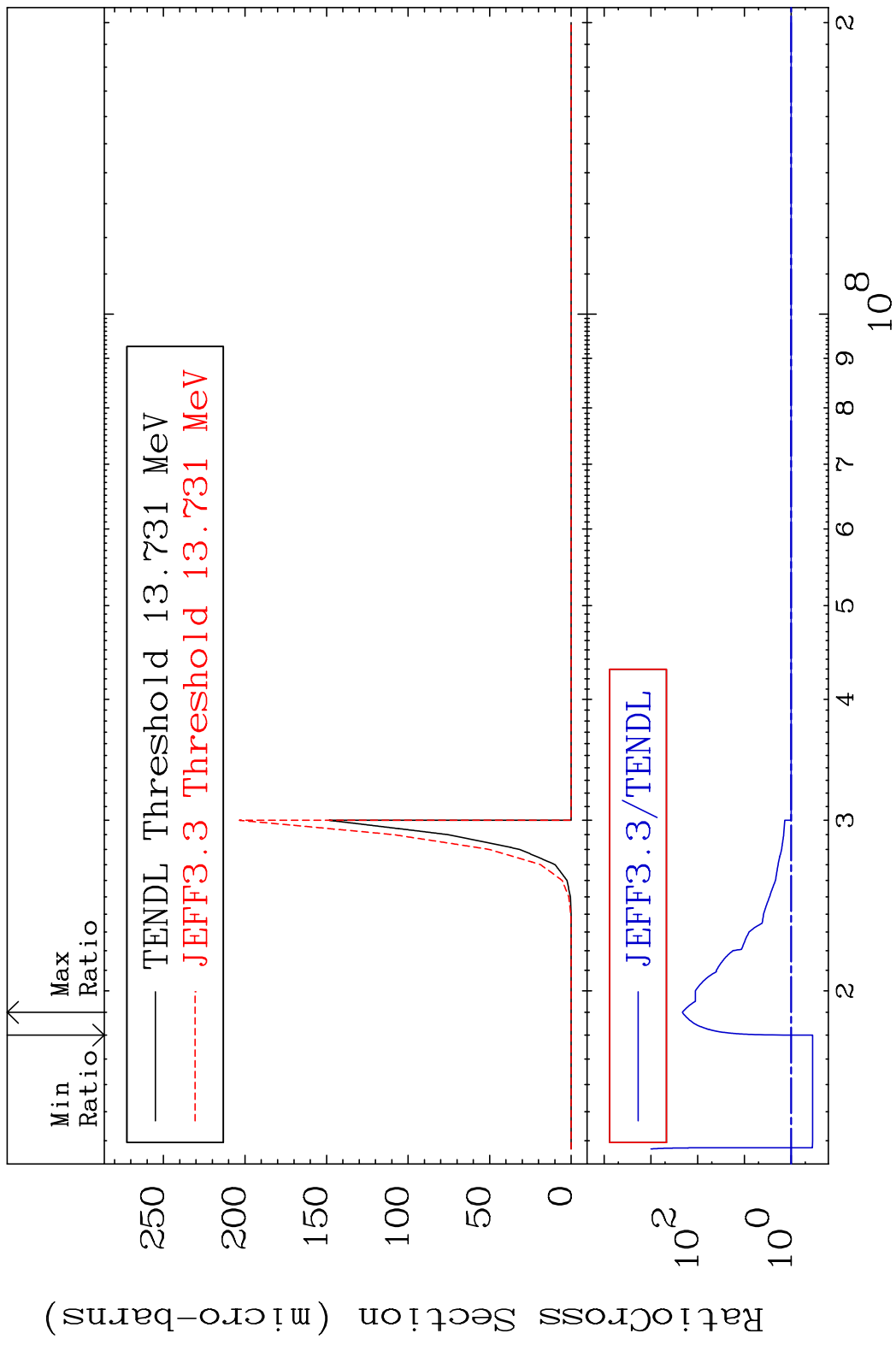


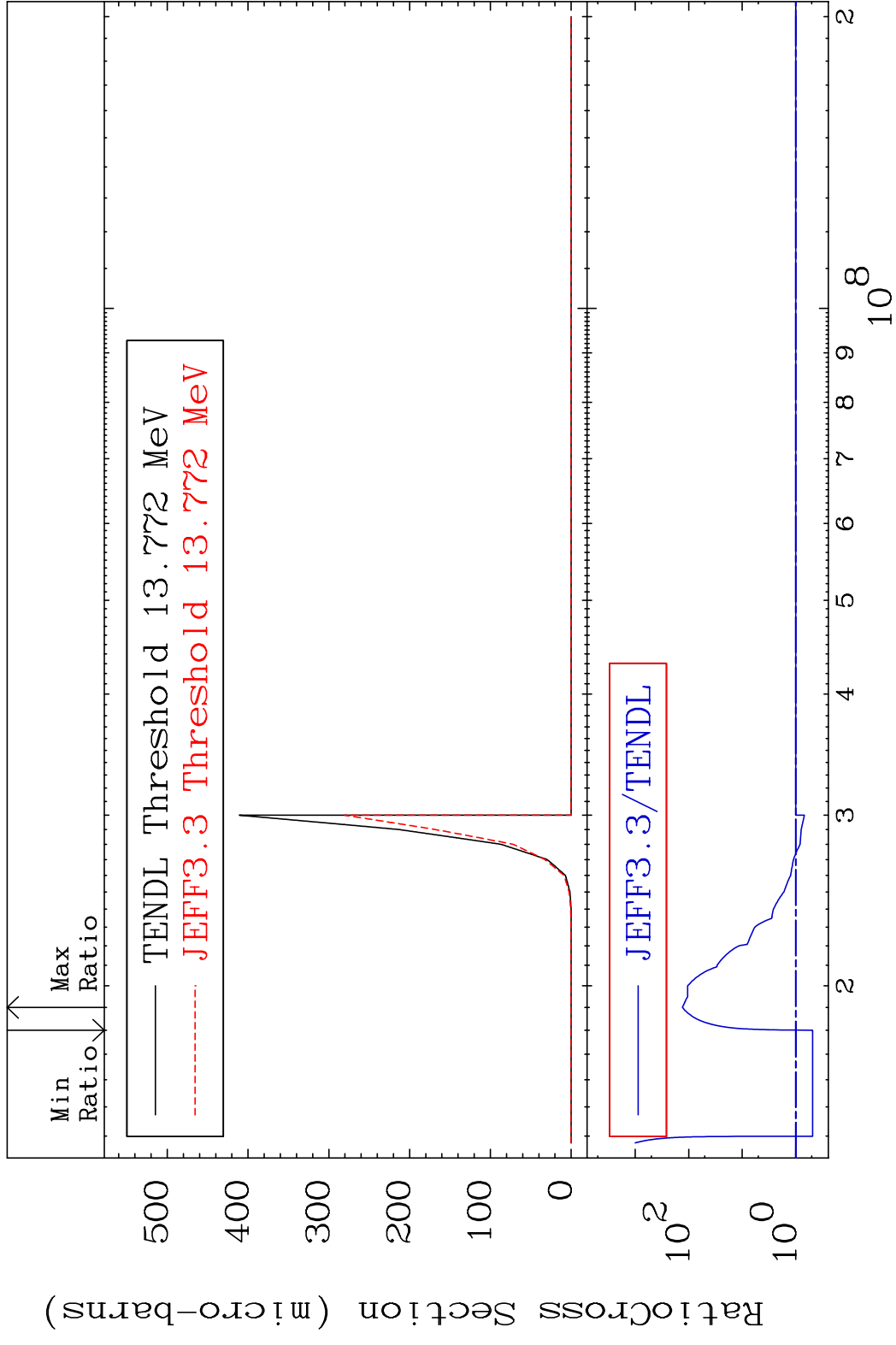
MAT 5143 (n, n') α :49-In-123g 51-Sb-127
 Radionuclide Production Cross Section (mb) to 9999. %

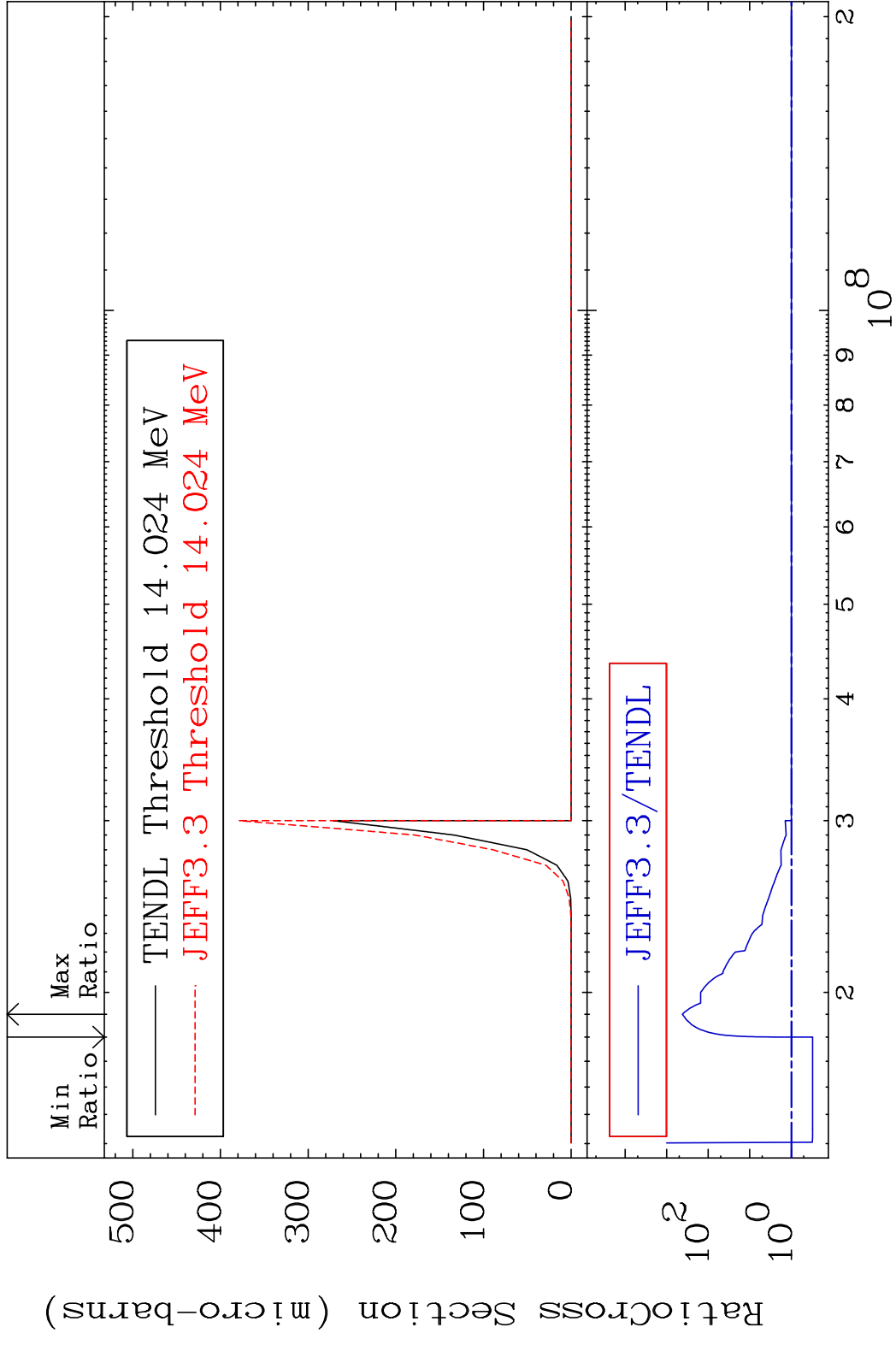


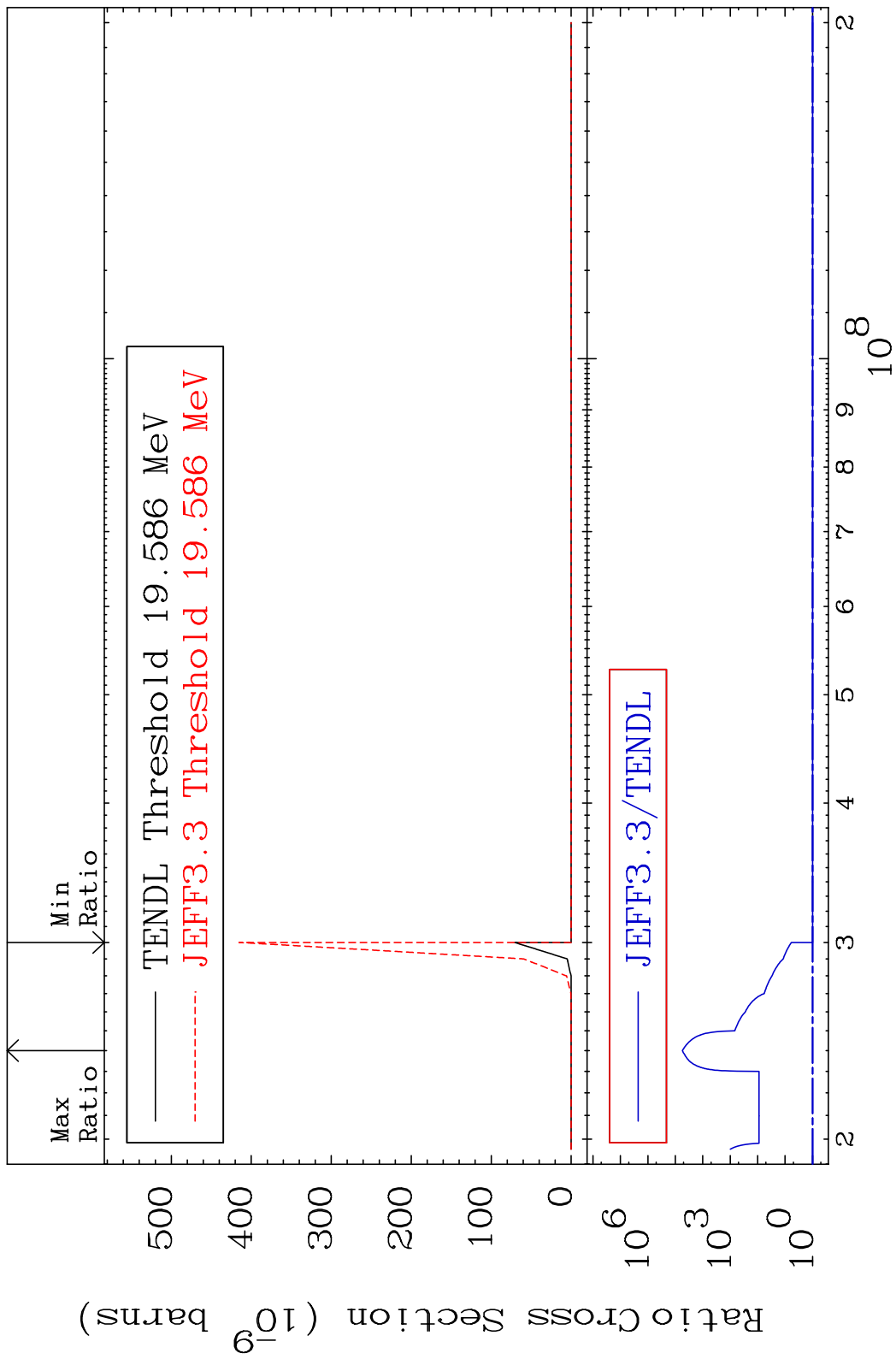
75 Incident Energy (eV) 51-Sb-127

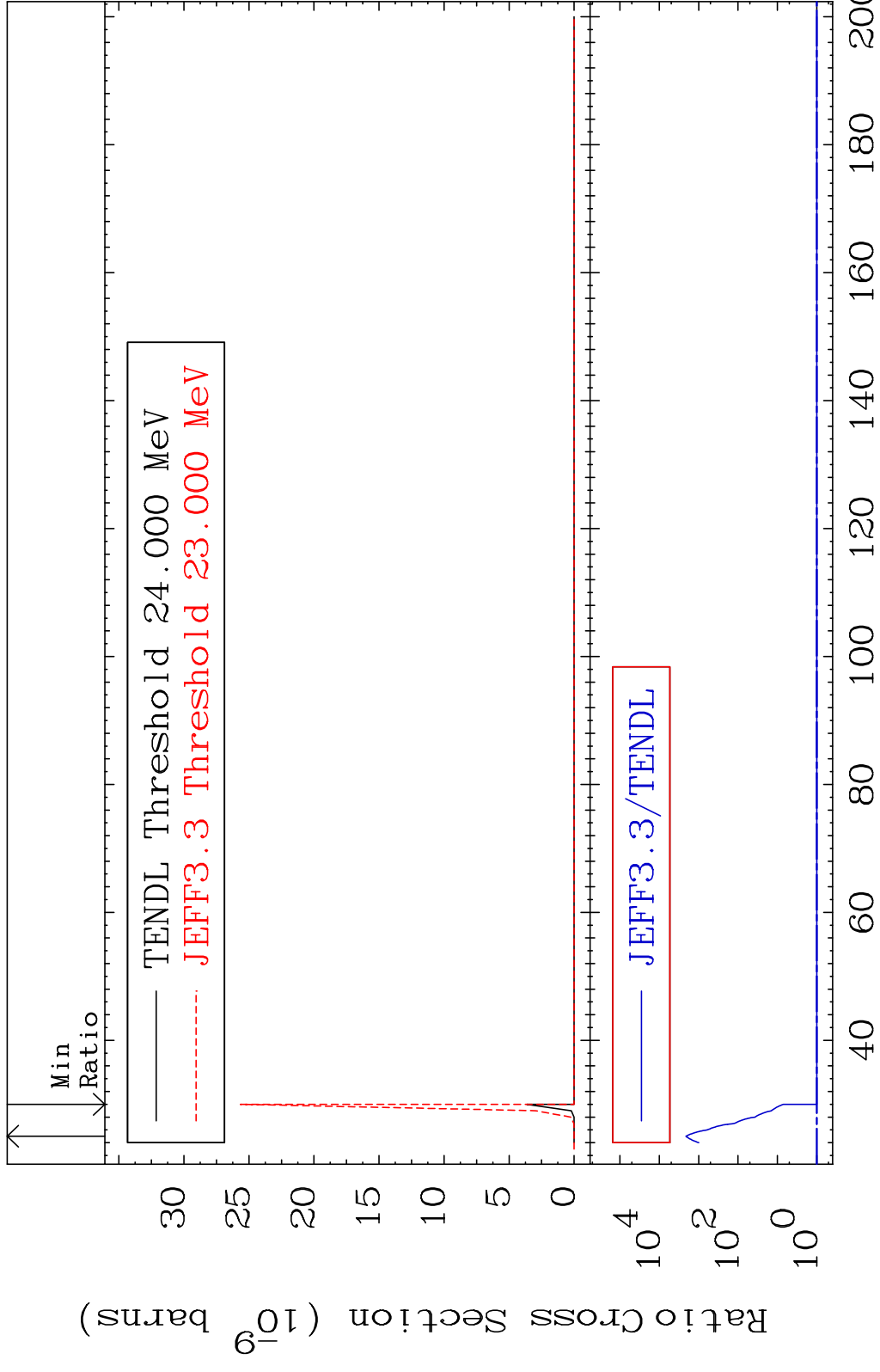


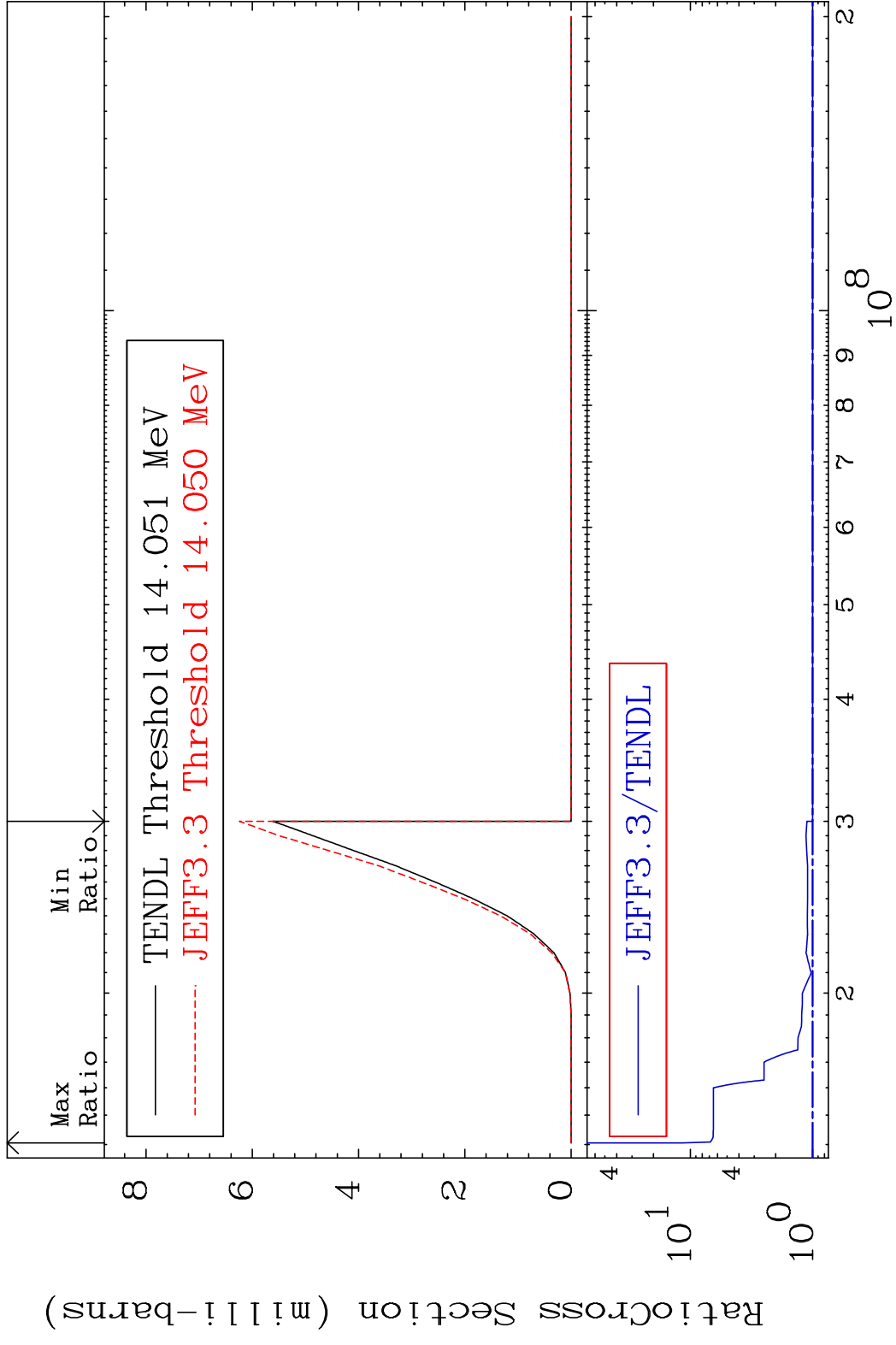


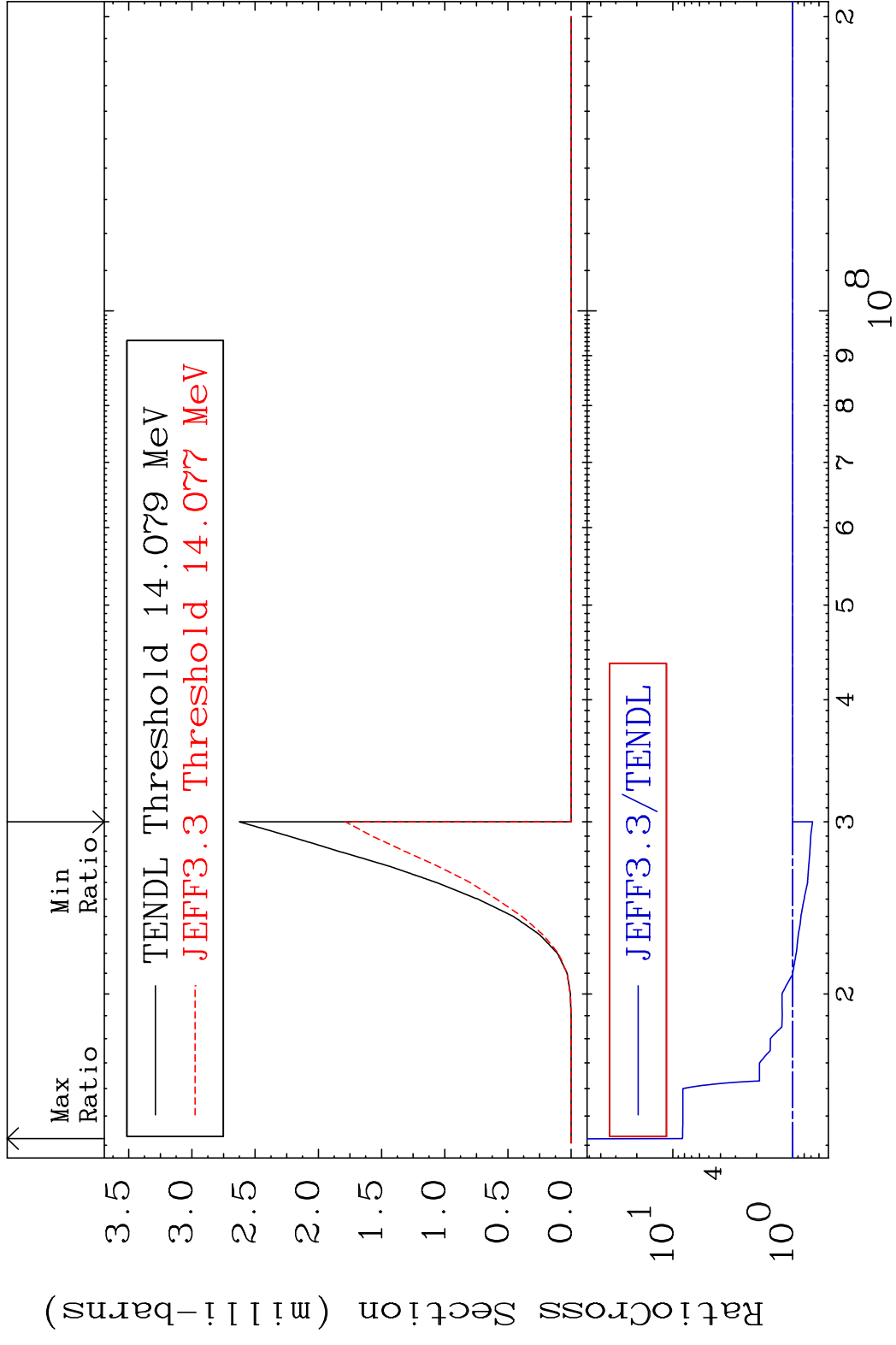


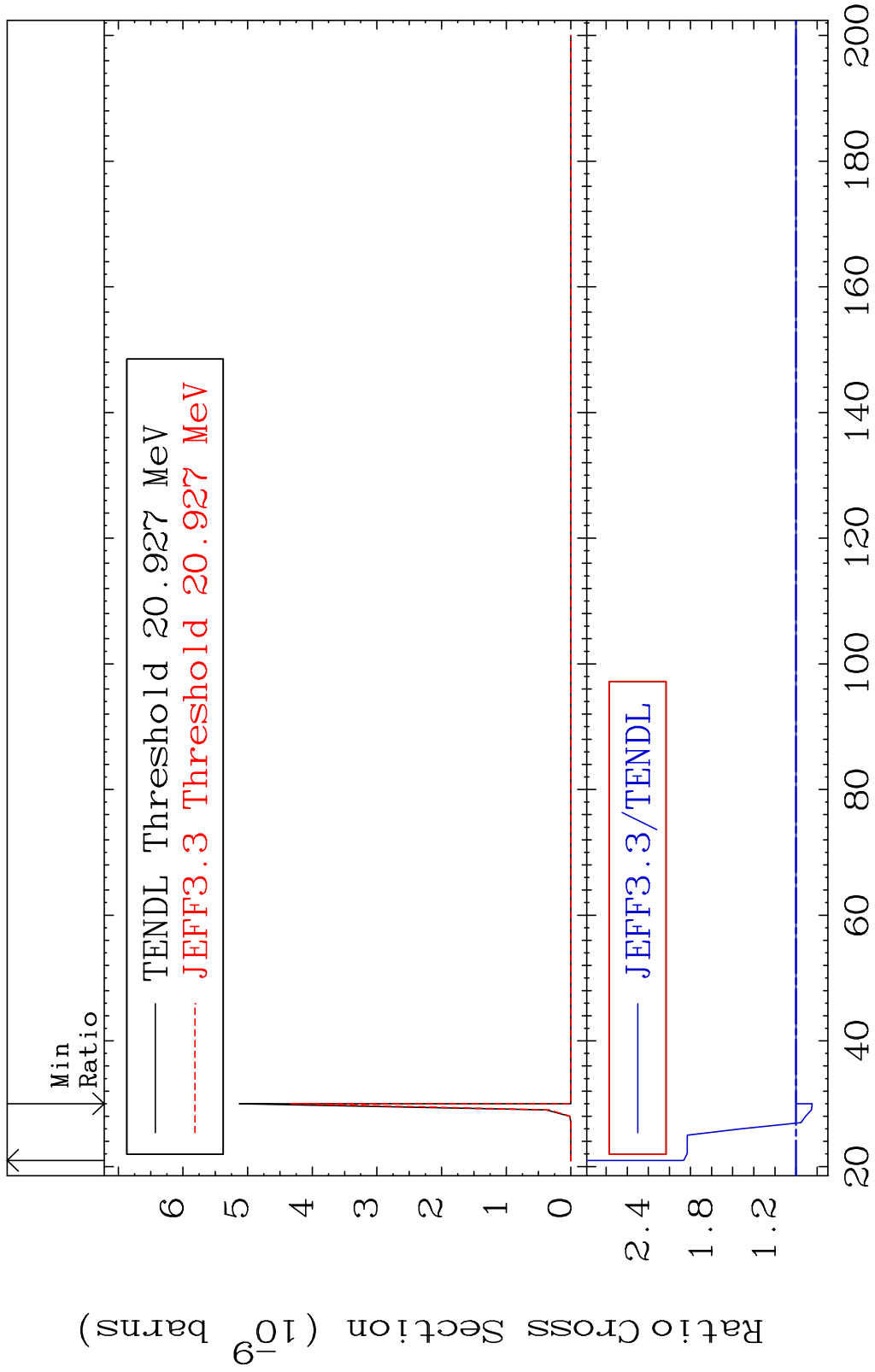


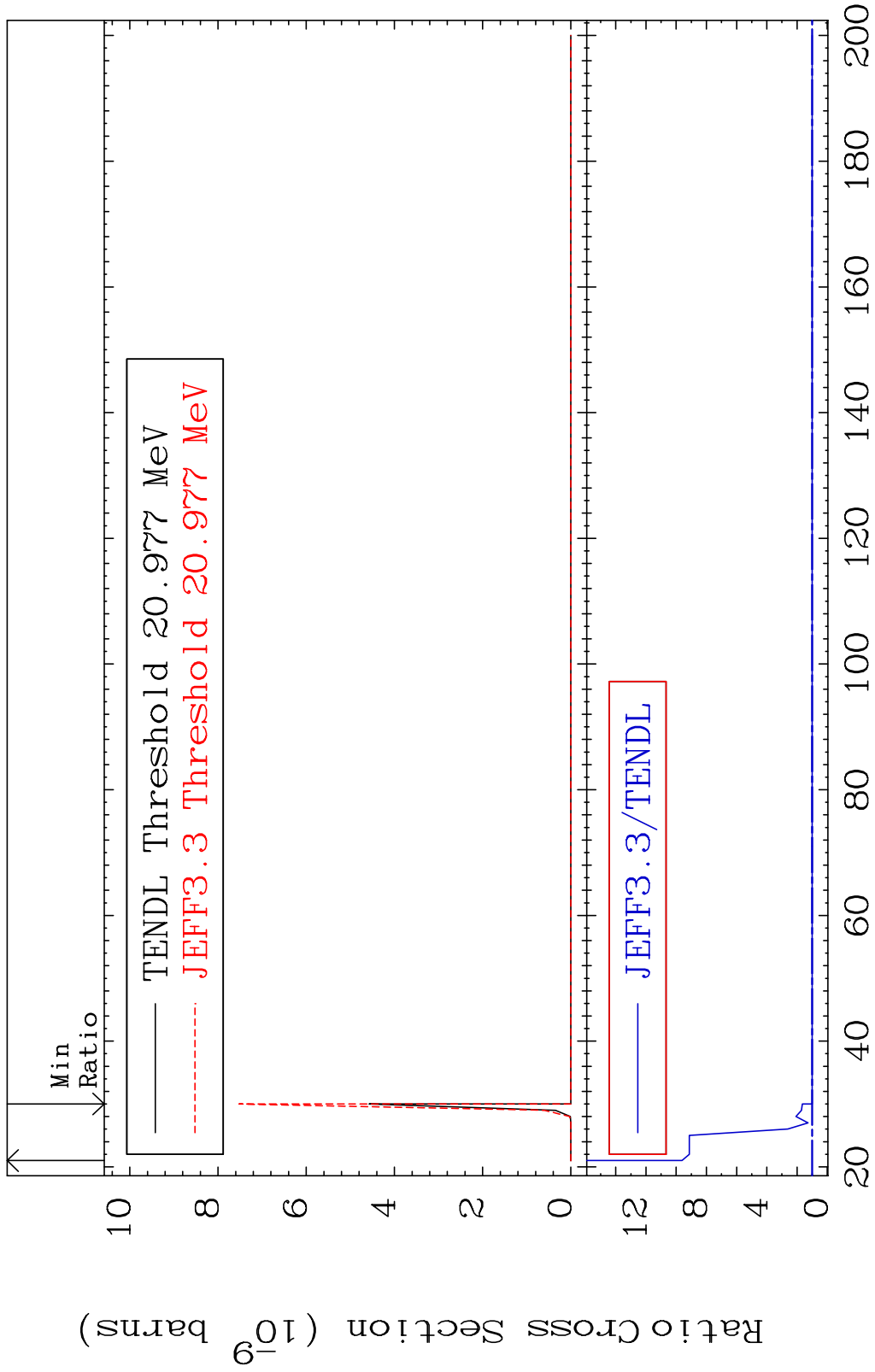


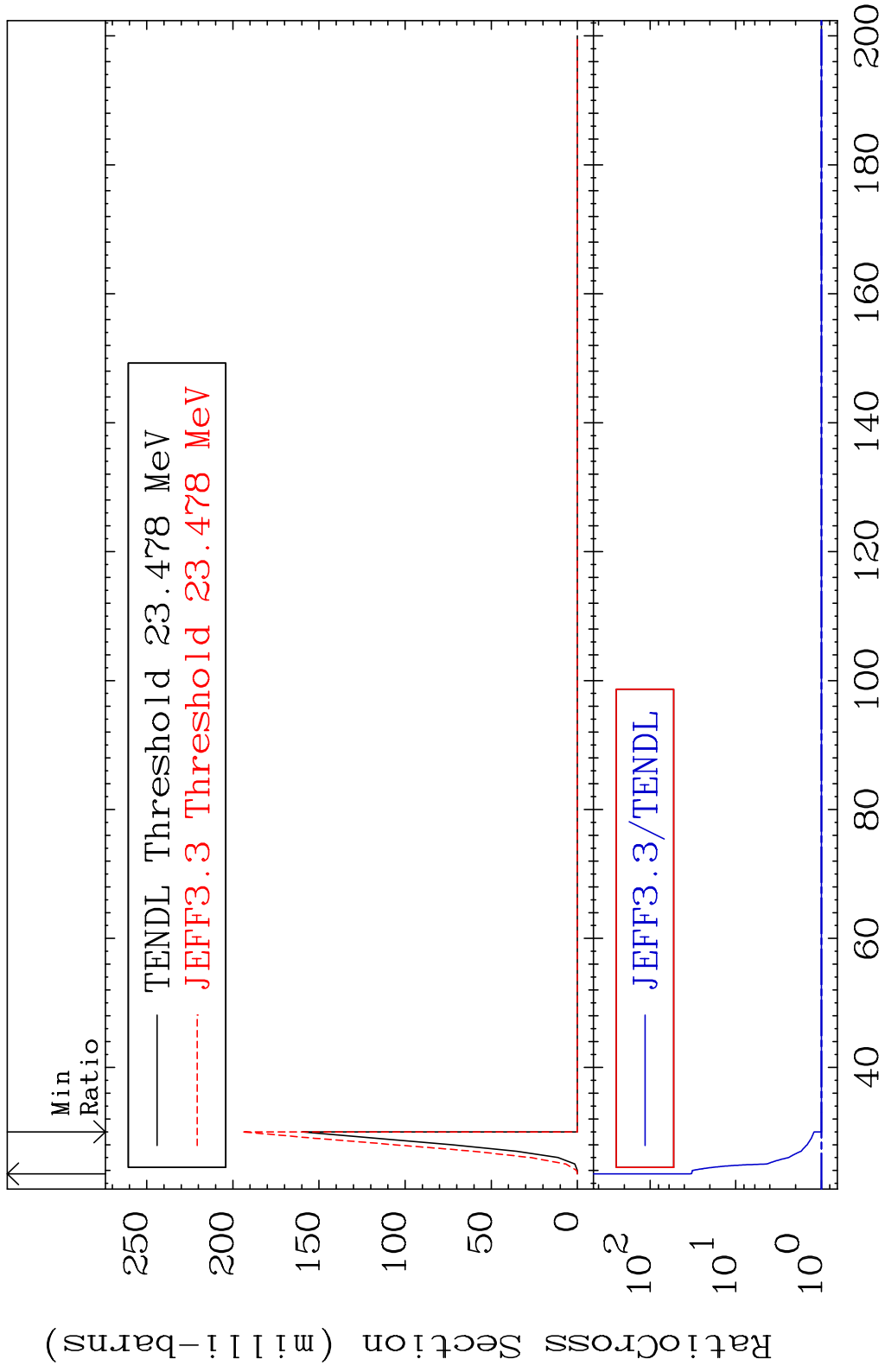


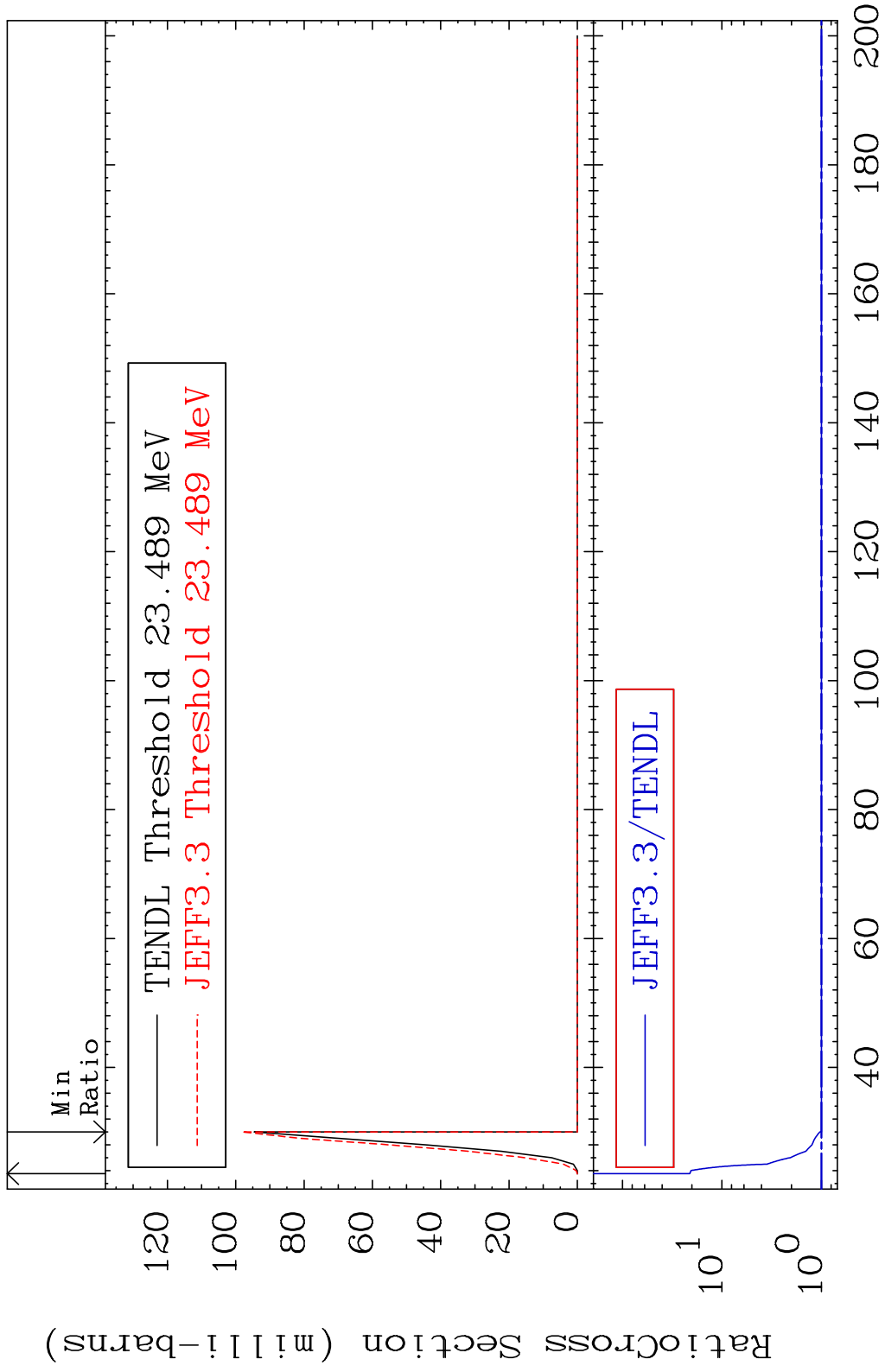


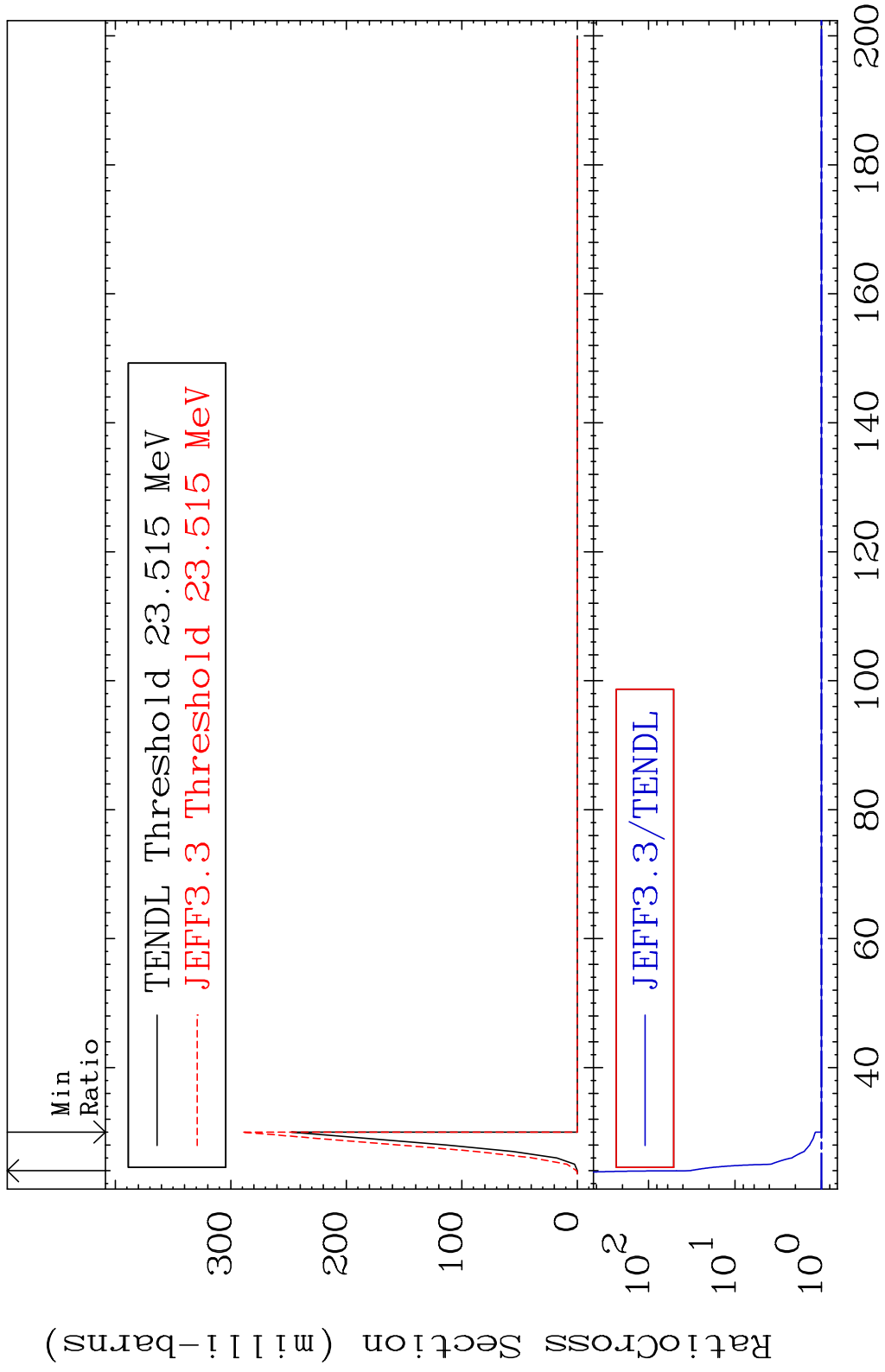


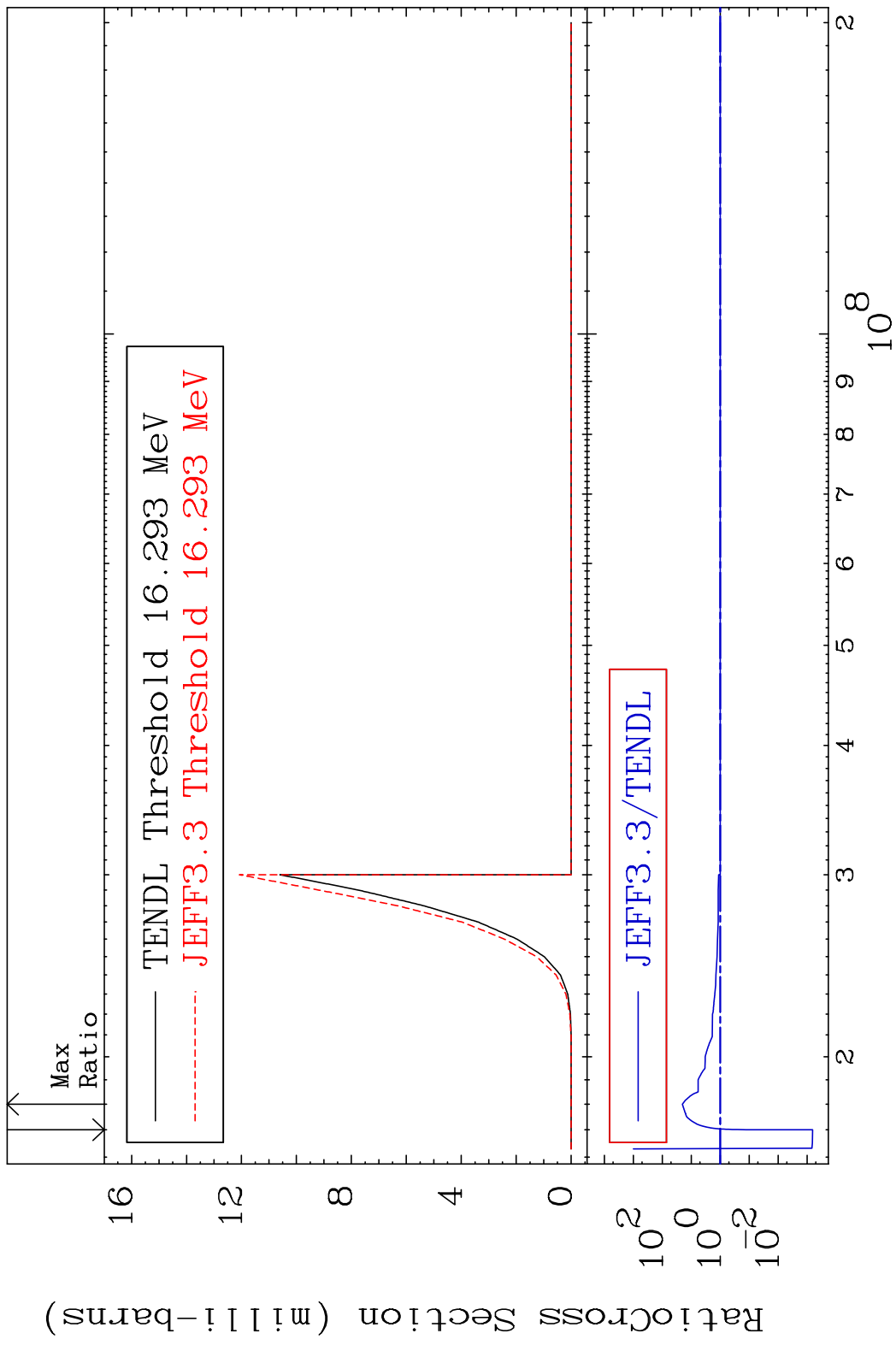


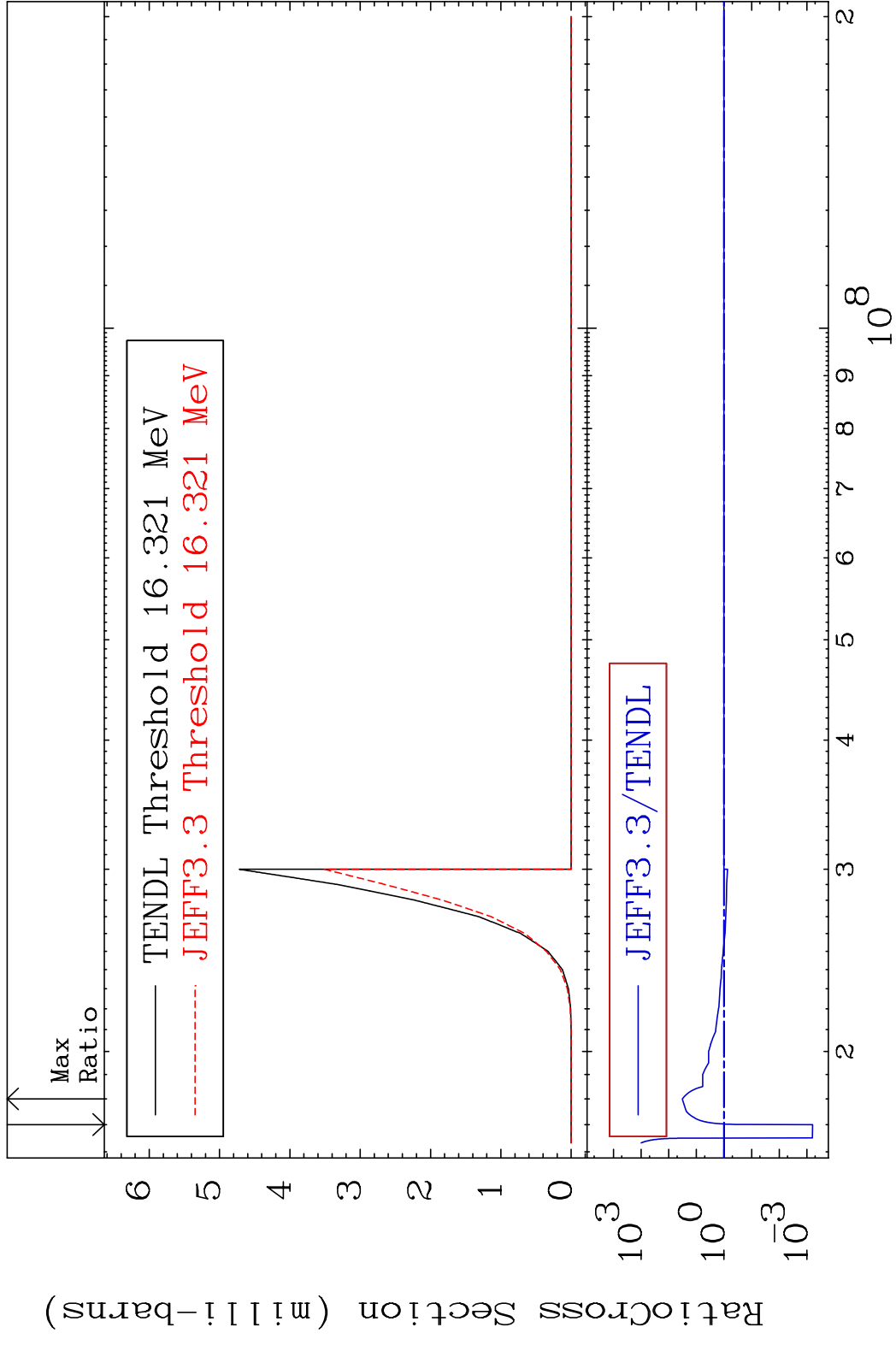


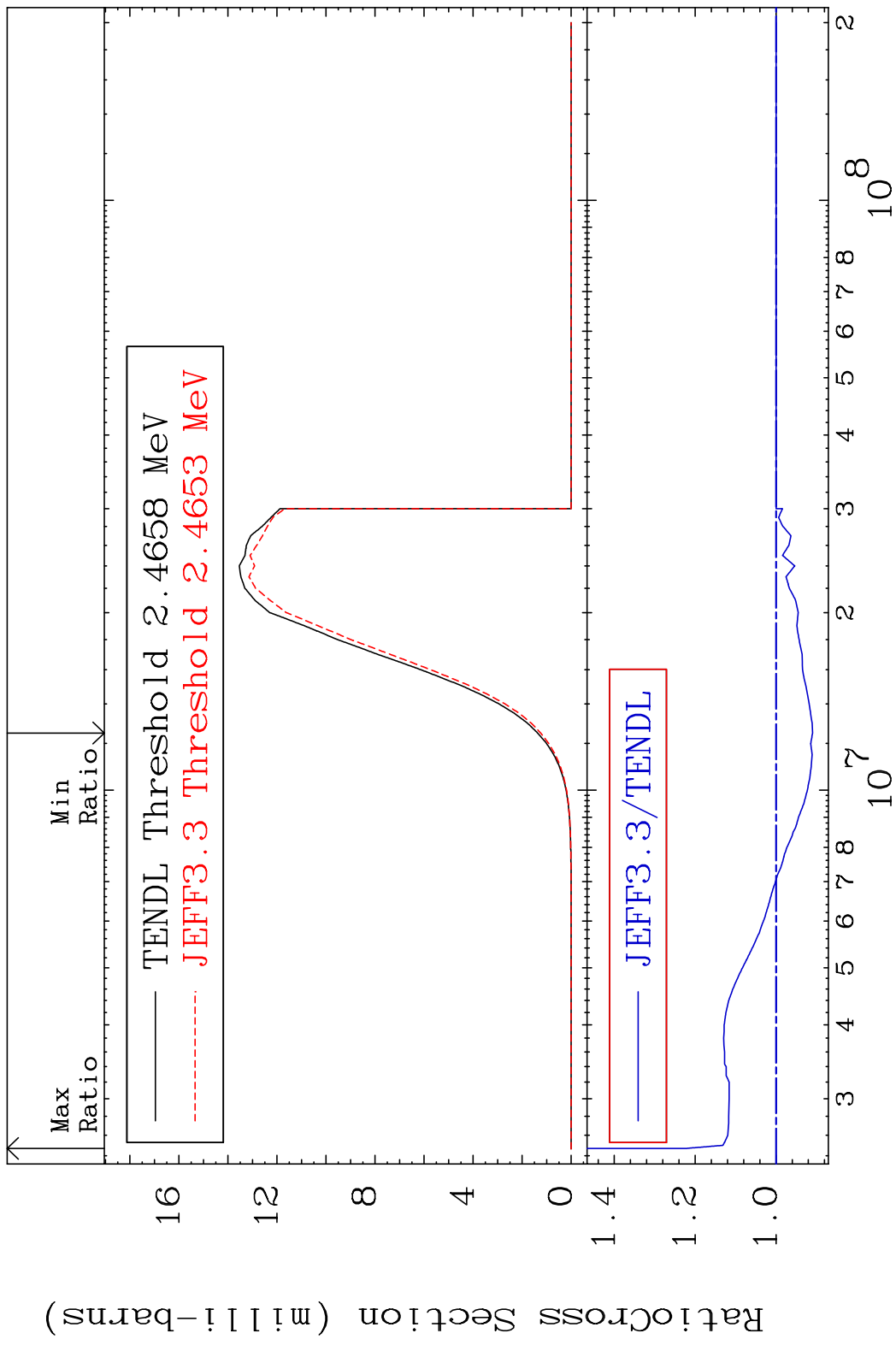


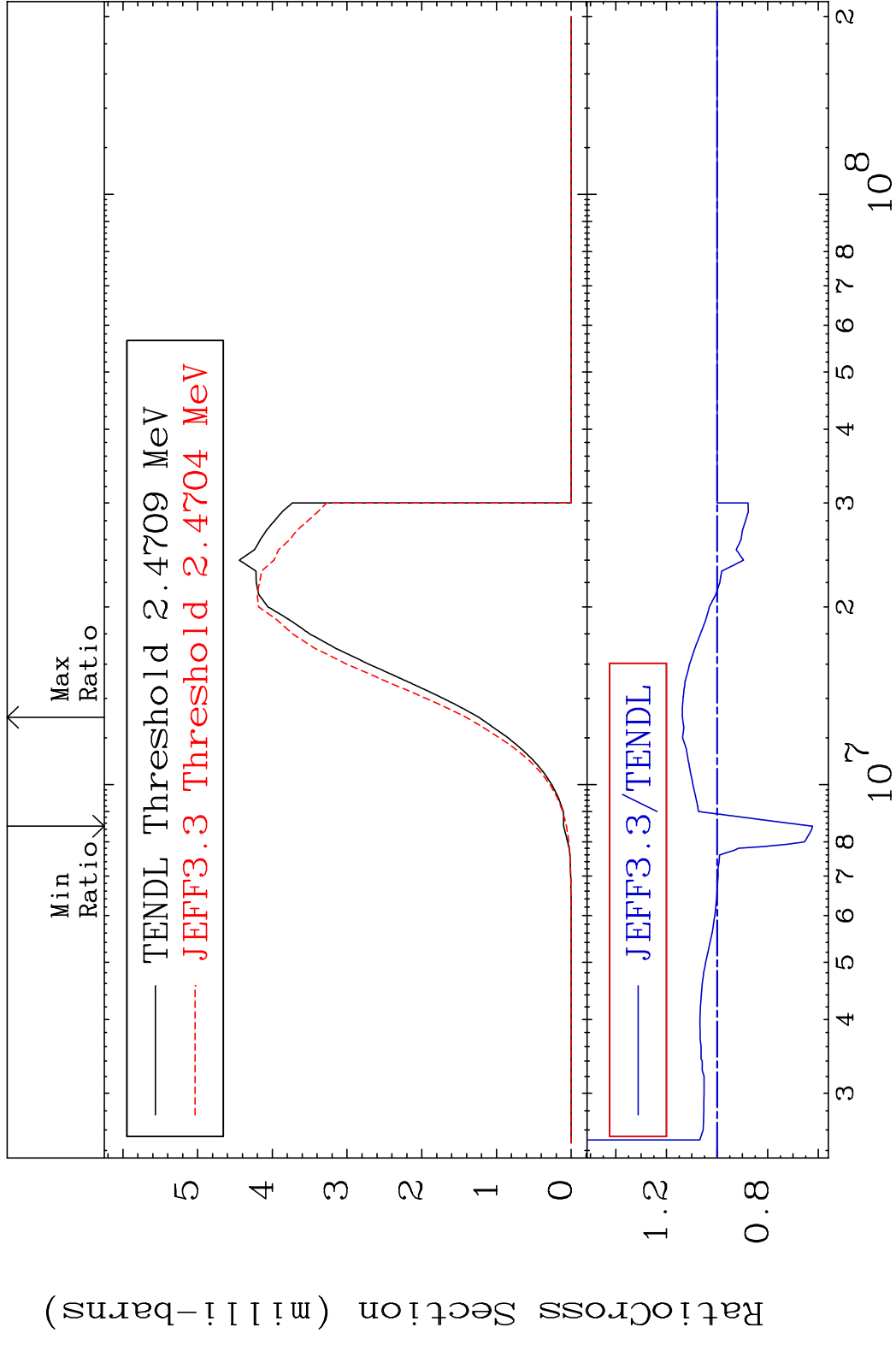










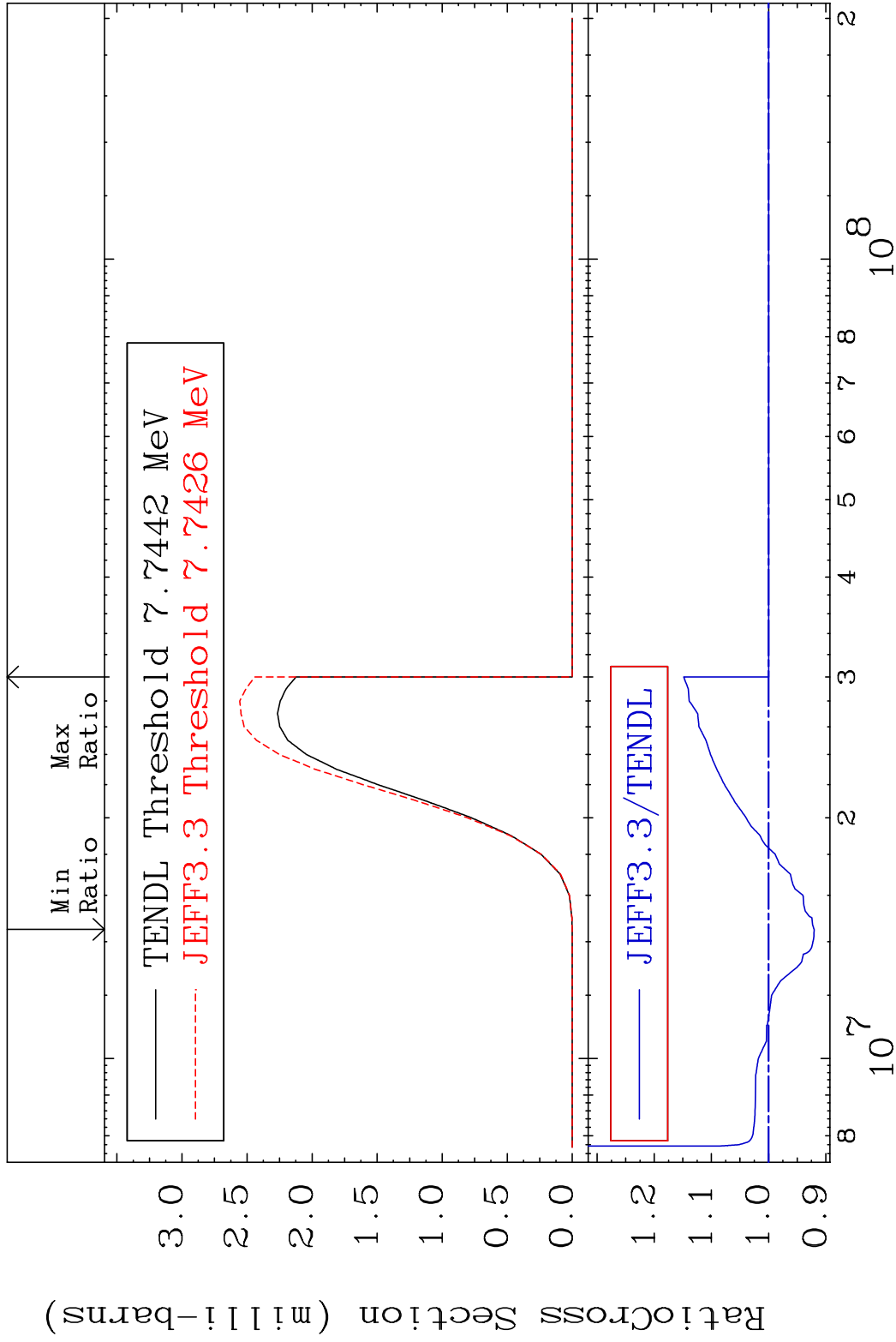


MAT 5143

(n, t):50-Sn-125g

51-Sb-127

Radionuclide Production Cross Section 14.86 %

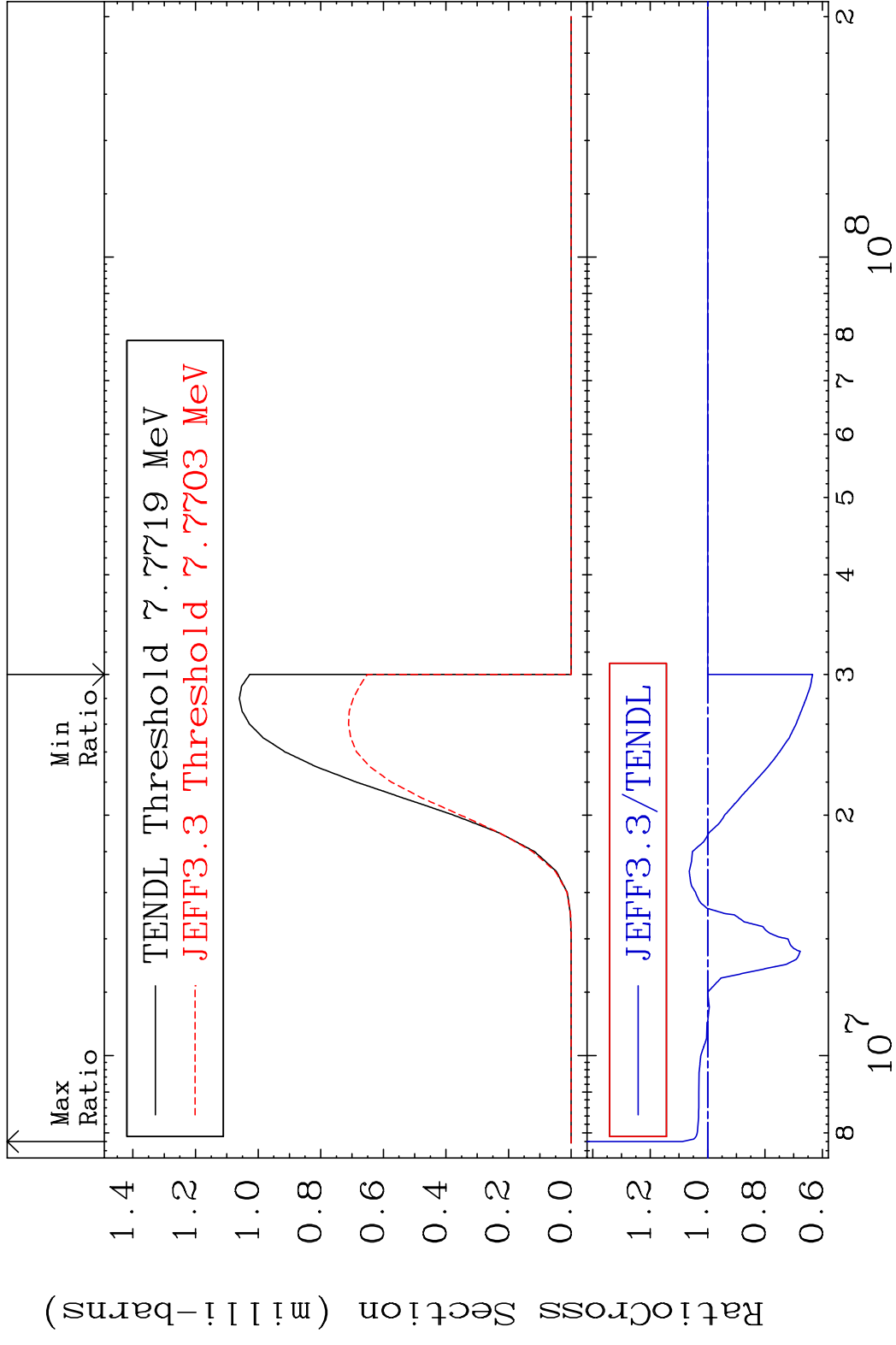


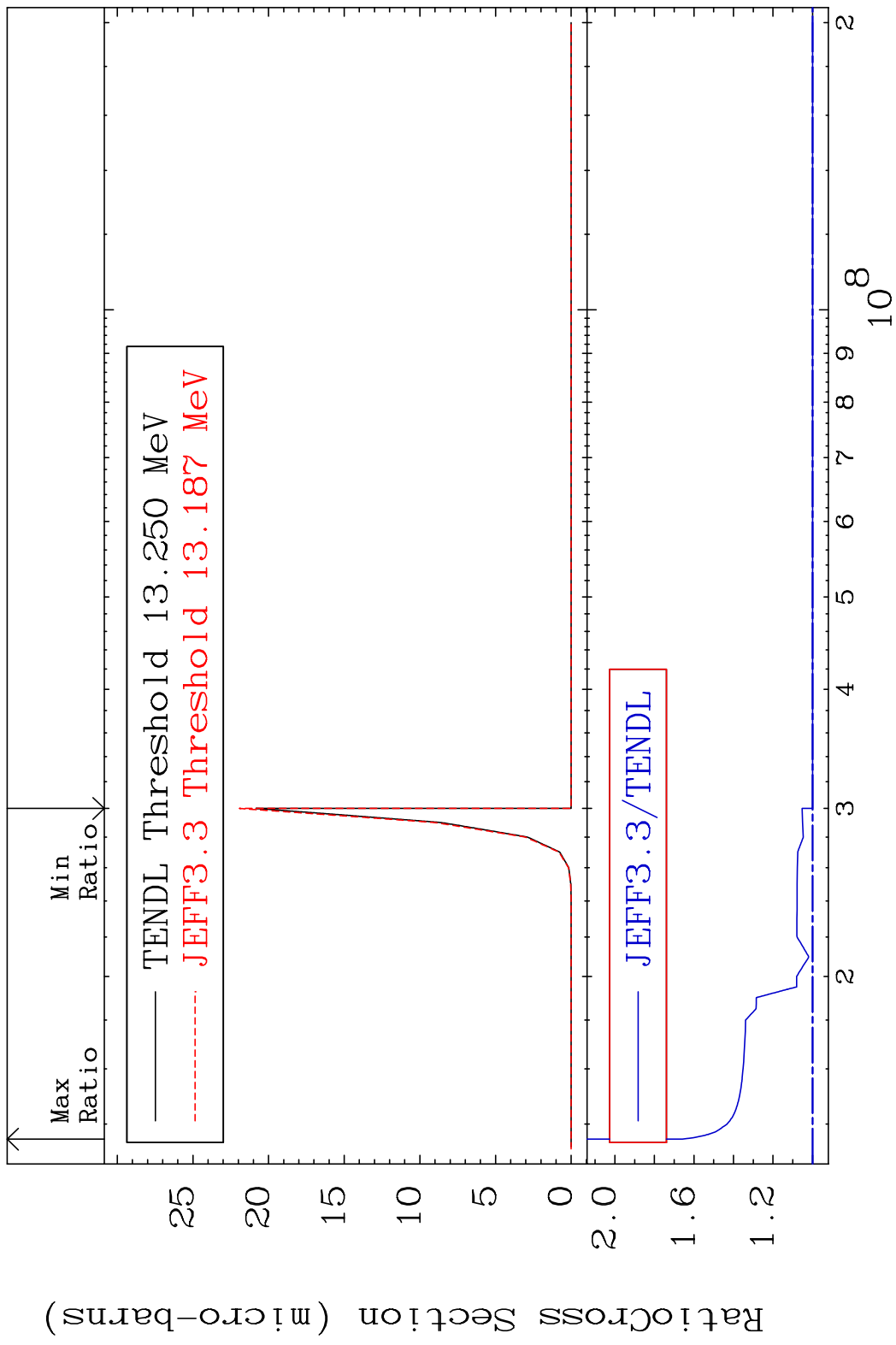
93

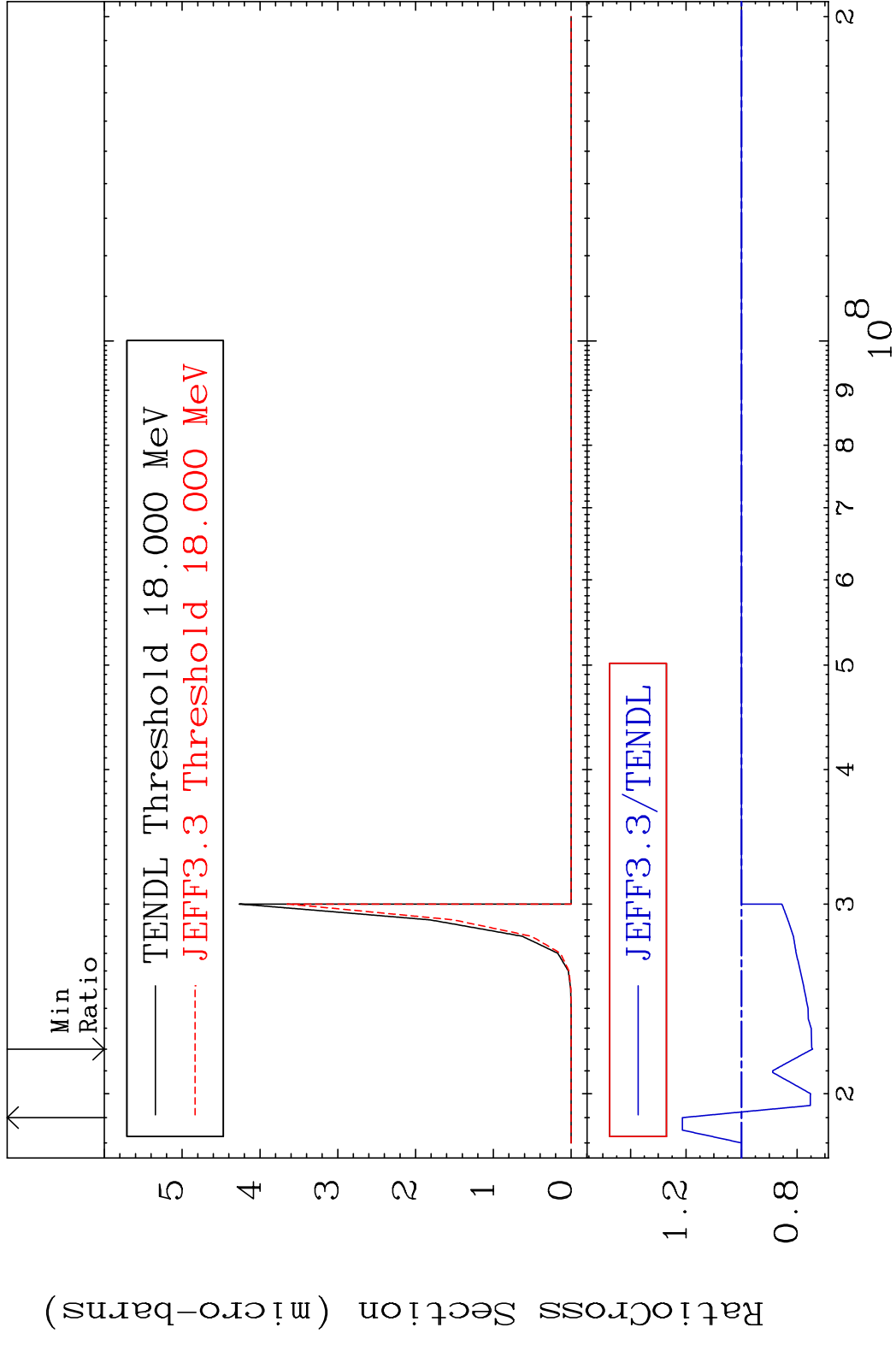
Incident Energy (eV)

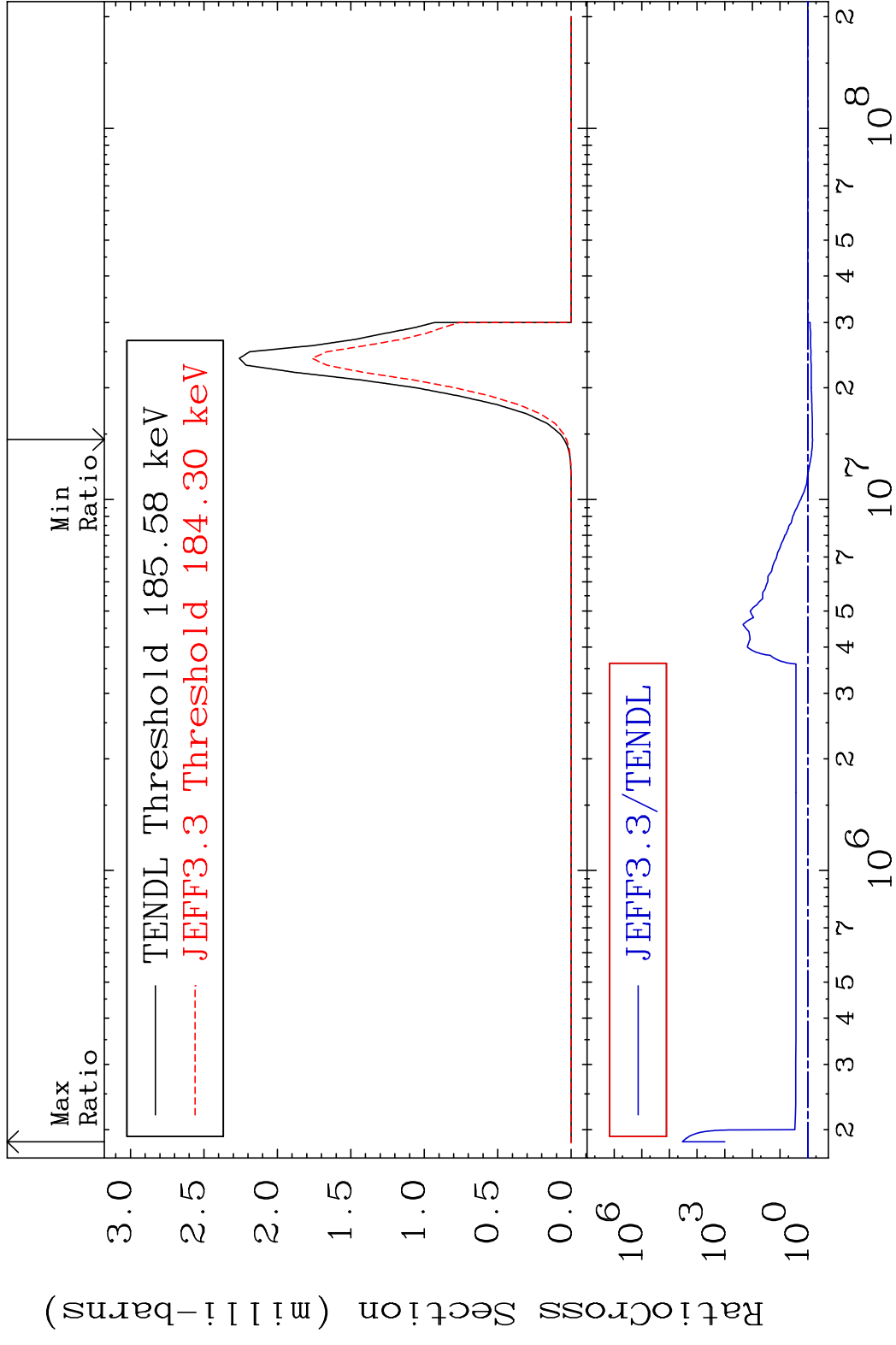
51-Sb-127

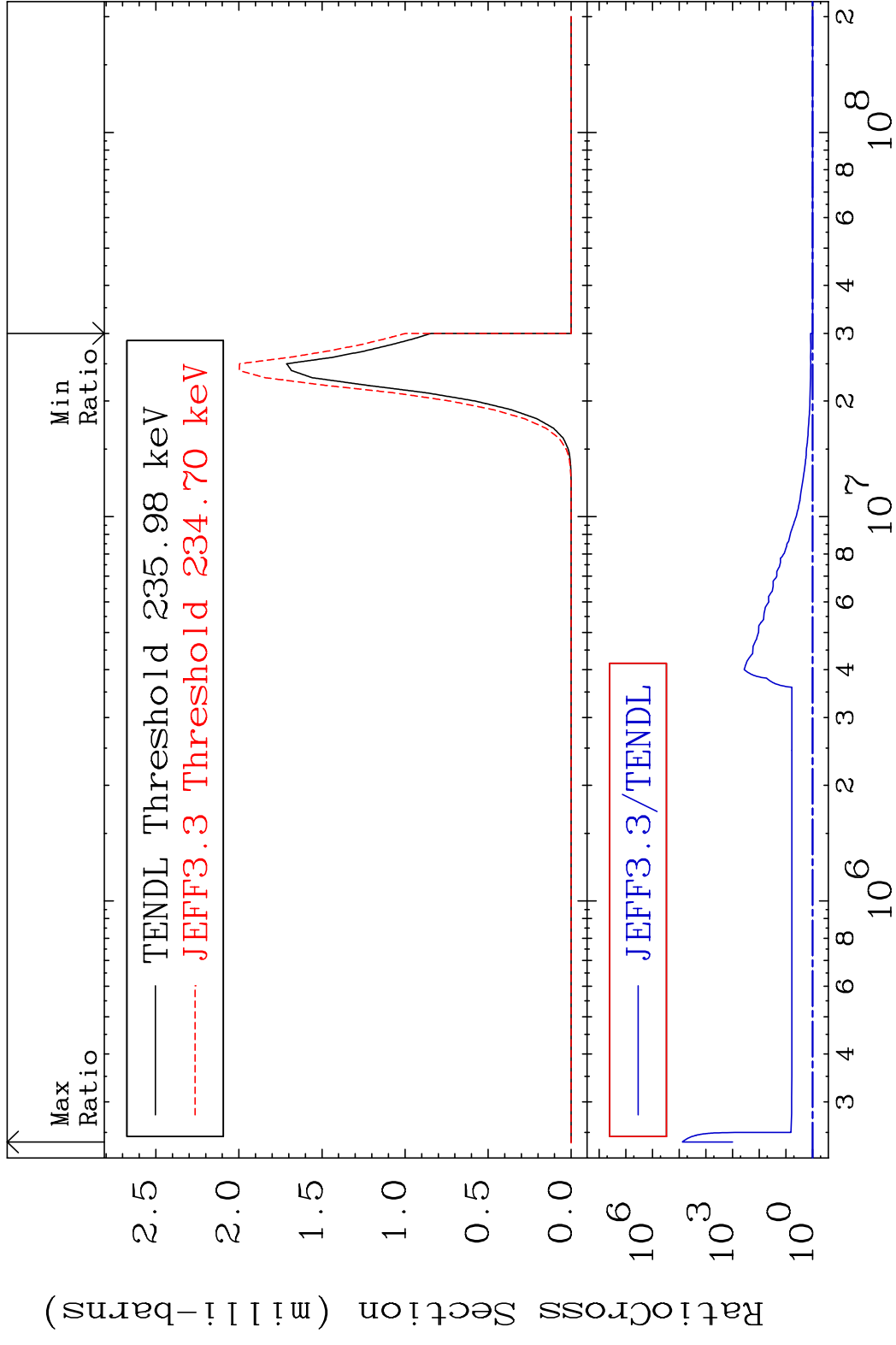
MAT 5143 (n, t):50-Sn-125m1 51-Sb-127
 Radionuclide Production Cross Section 36e541d10 8.799 %



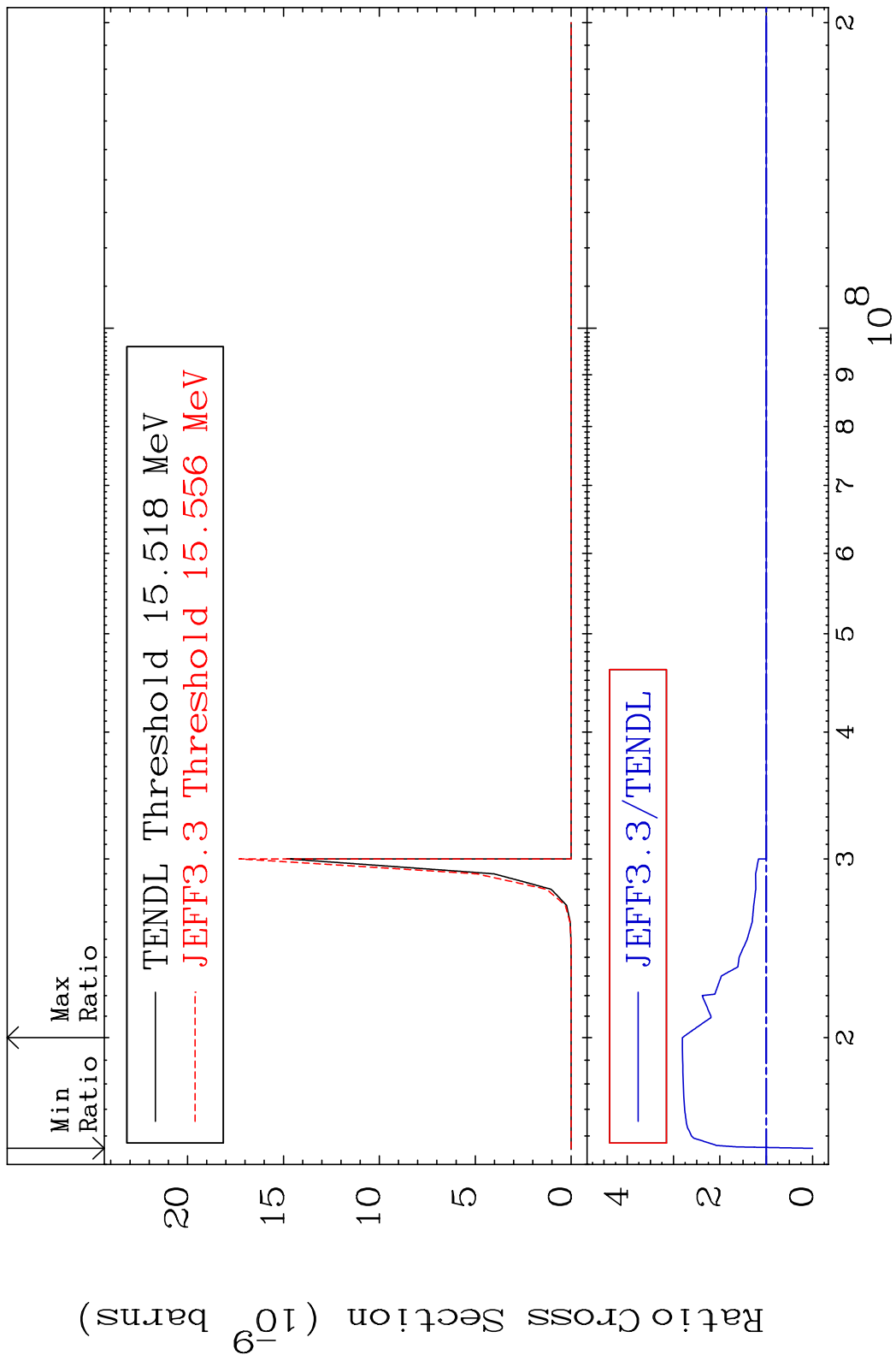




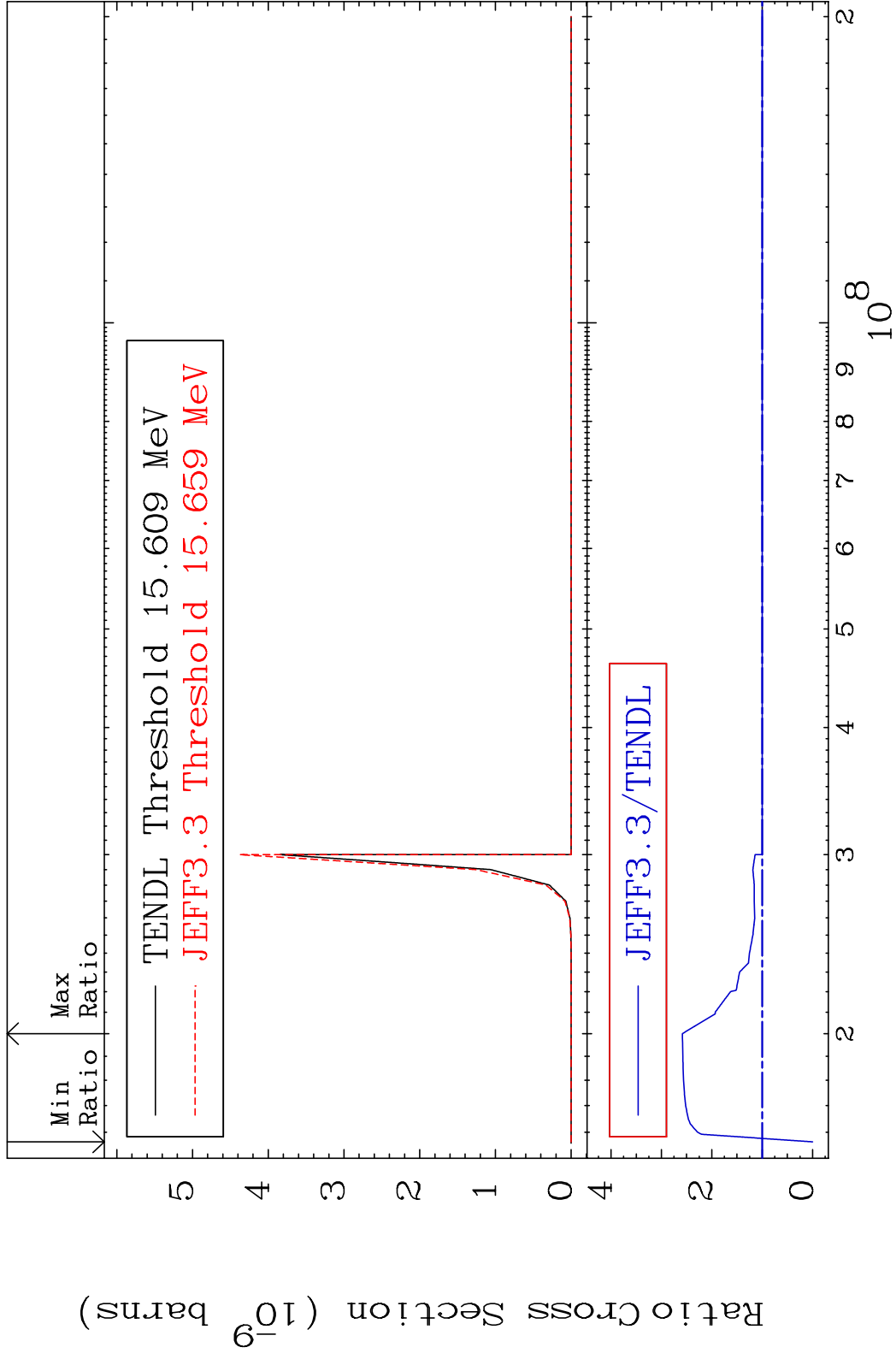




MAT 5143 (n,2p):49-In-126g 51-Sb-127
 Radionuclide Production Cross Section 181.0 %



MAT 5143 (n,2p):49-In-126m1 51-Sb-127
 Radionuclide Production Cross Section 158.0 mb 158.4 %



100 Incident Energy (eV) 51-Sb-127