

Program Complot
(Version 2021-1)

by

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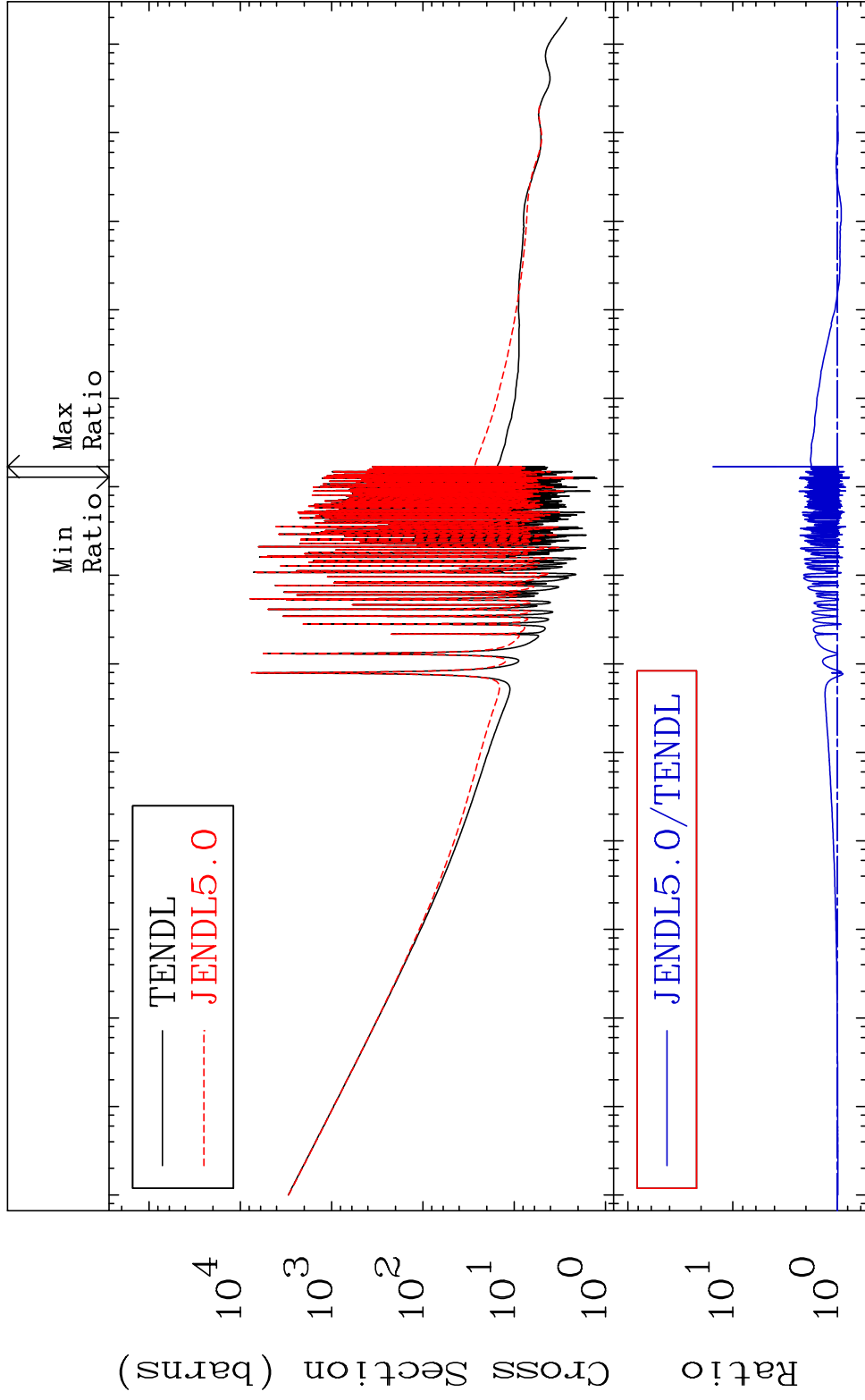
Press Mouse Button to Start

MAT 7034

Total

70-Yb-171

Cross Section -22.78 To 1435. %



1

Incident Energy (eV)

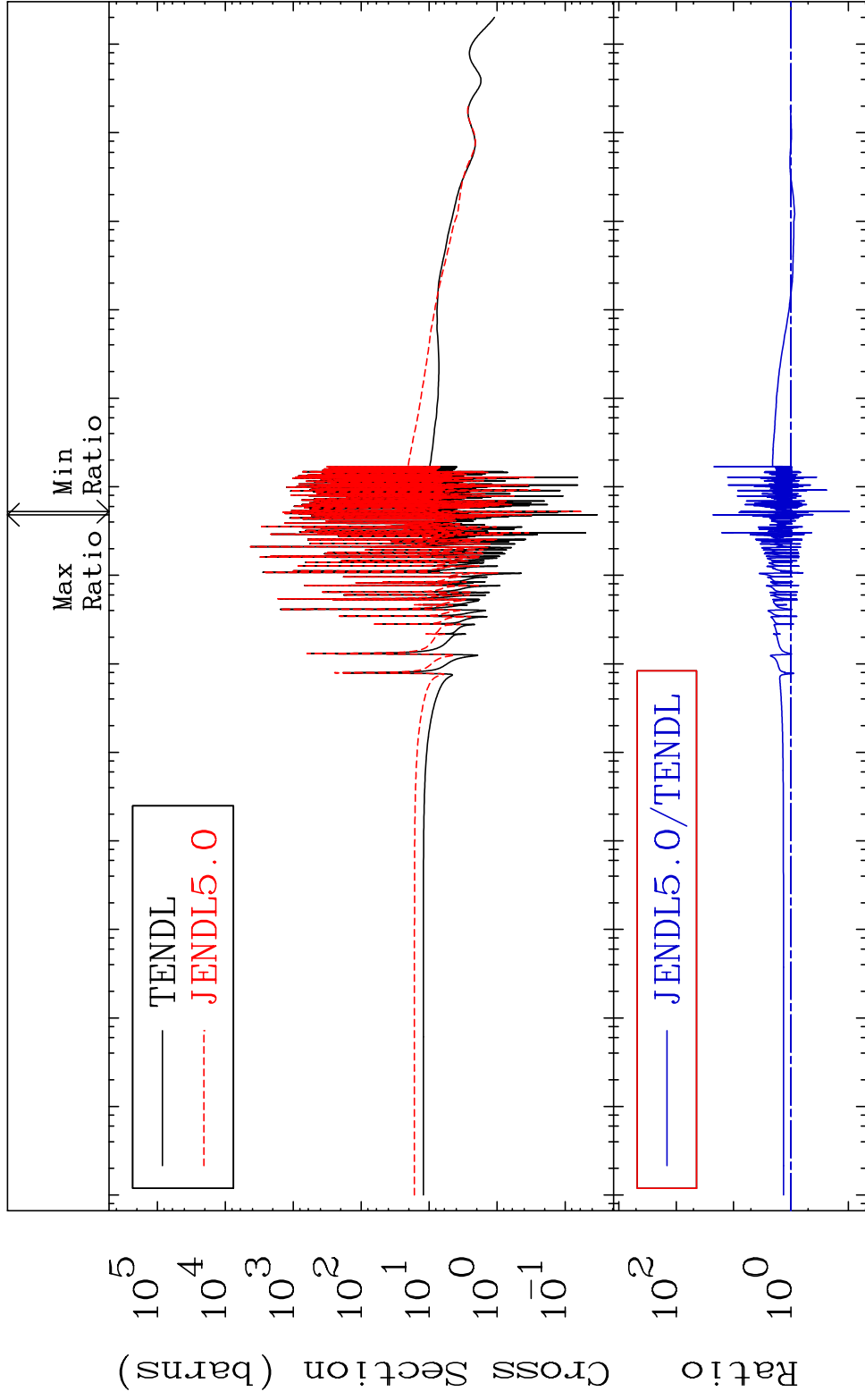
70-Yb-171

MAT 7034

Elastic

70-Yb-171

Cross Section -90.38 To 2166. %



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

2

Incident Energy (eV)

70-Yb-171

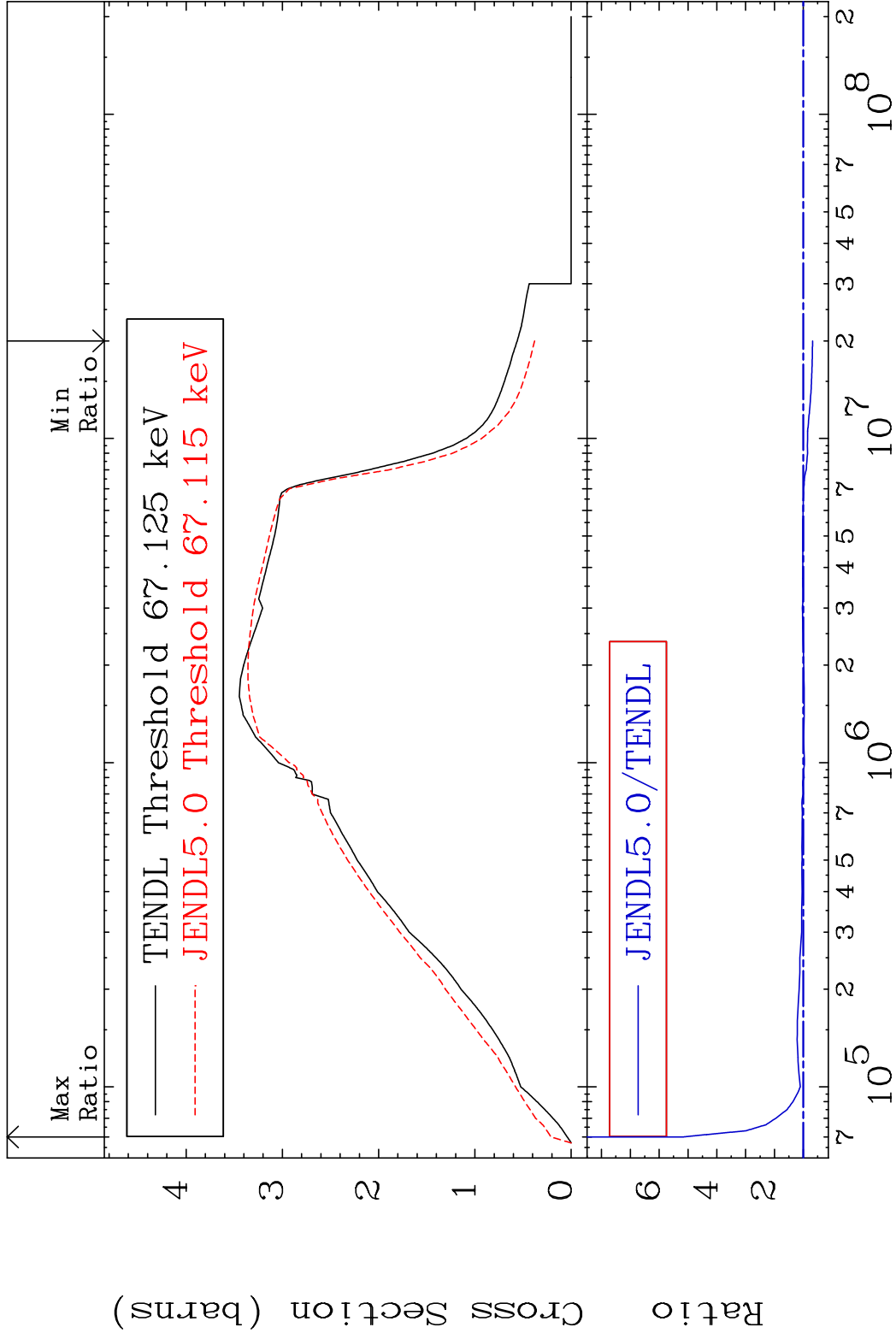
MAT 7034

Inelastic

70-Yb-171

Cross Section

-32.09 To 419.5 %



3

Incident Energy (eV)

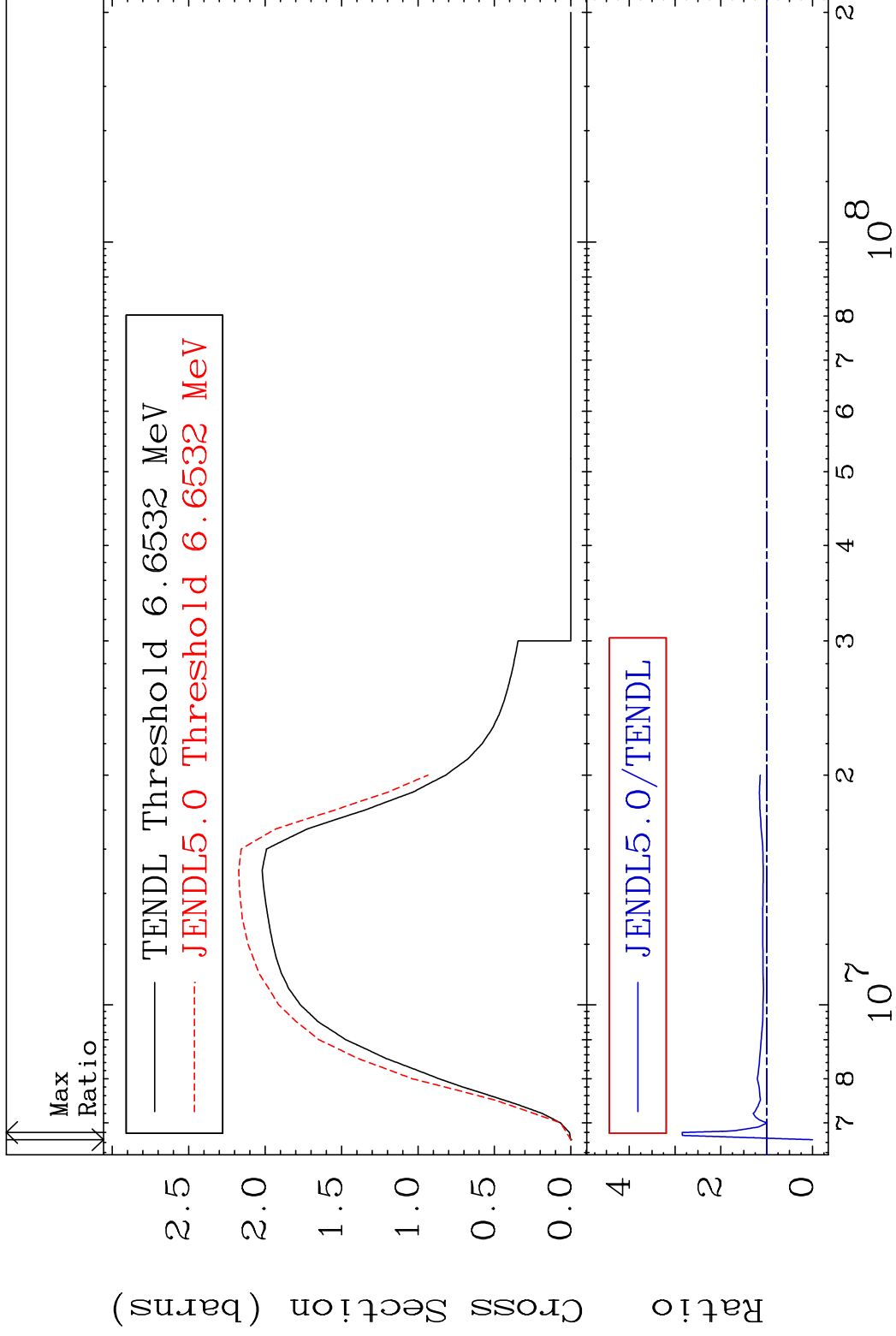
70-Yb-171

MAT 7034

(n,2n)

70-Yb-171

Cross Section -100.0 To 184.5 %



4

Incident Energy (eV)

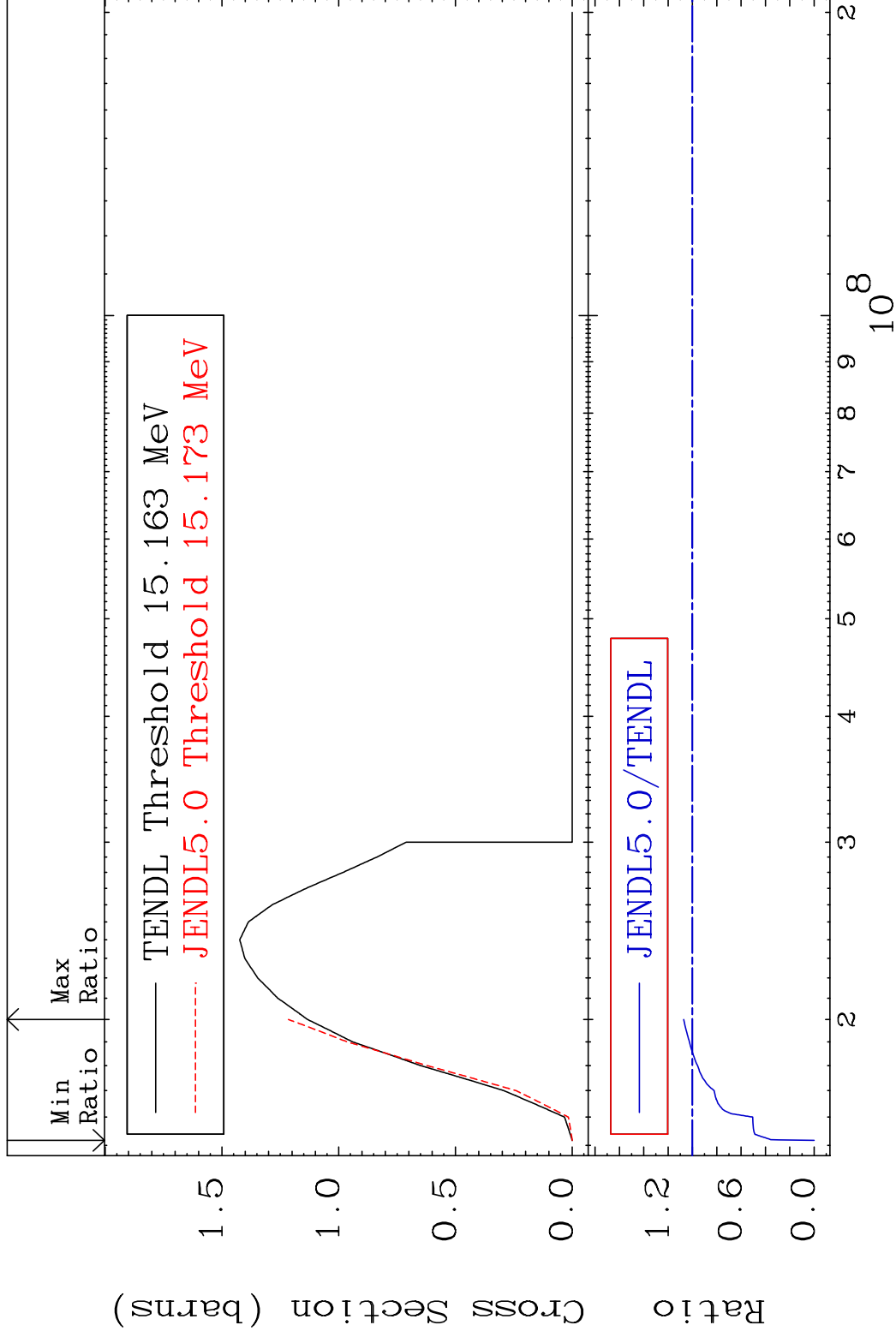
70-Yb-171

MAT 7034

(n,3n)

70-Yb-171

Cross Section -100.0 To 7.195 %



5

Incident Energy (eV)

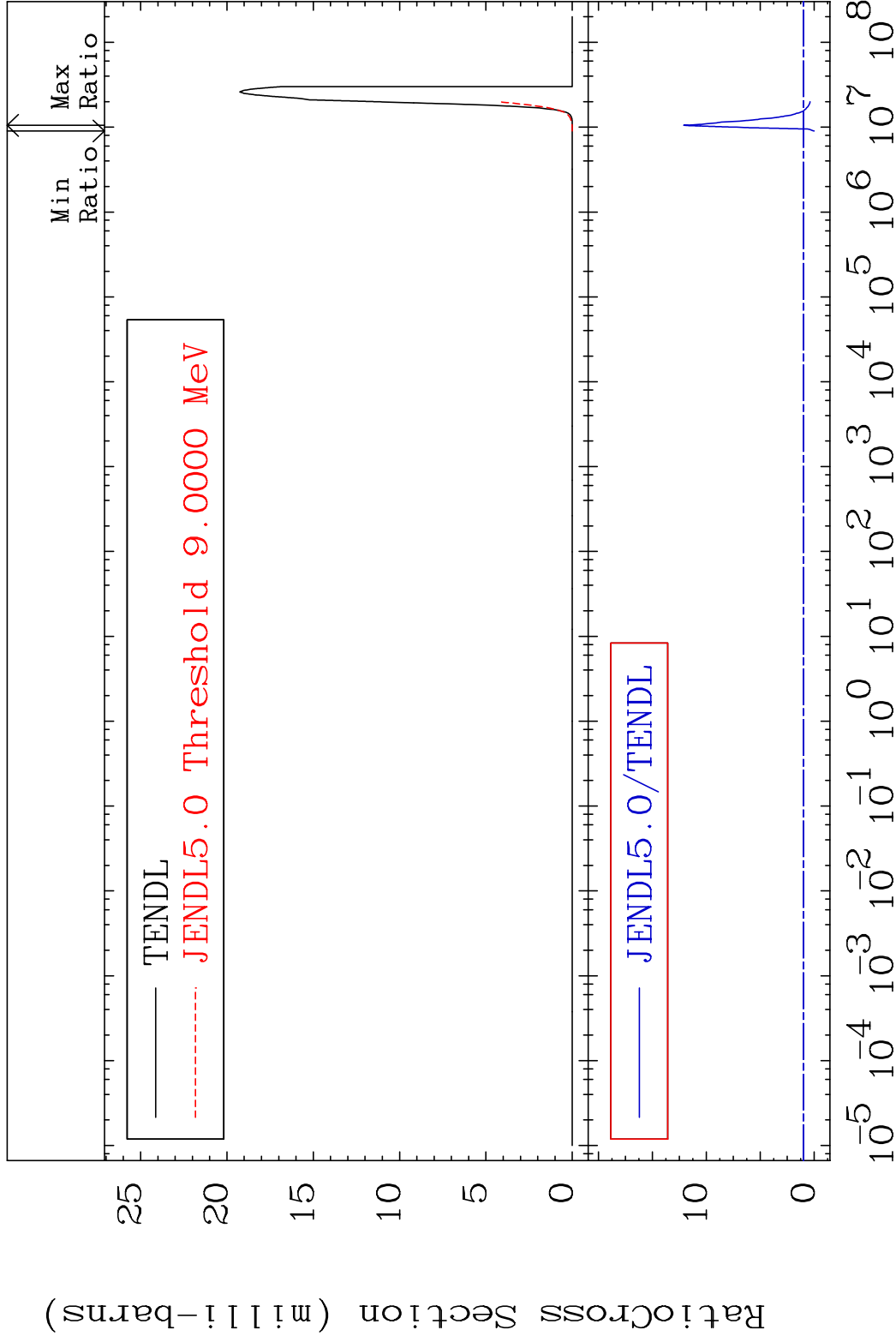
70-Yb-171

MAT 7034

(n, n') α

70-Yb-171

Cross Section -100.0 To 1110. %



6

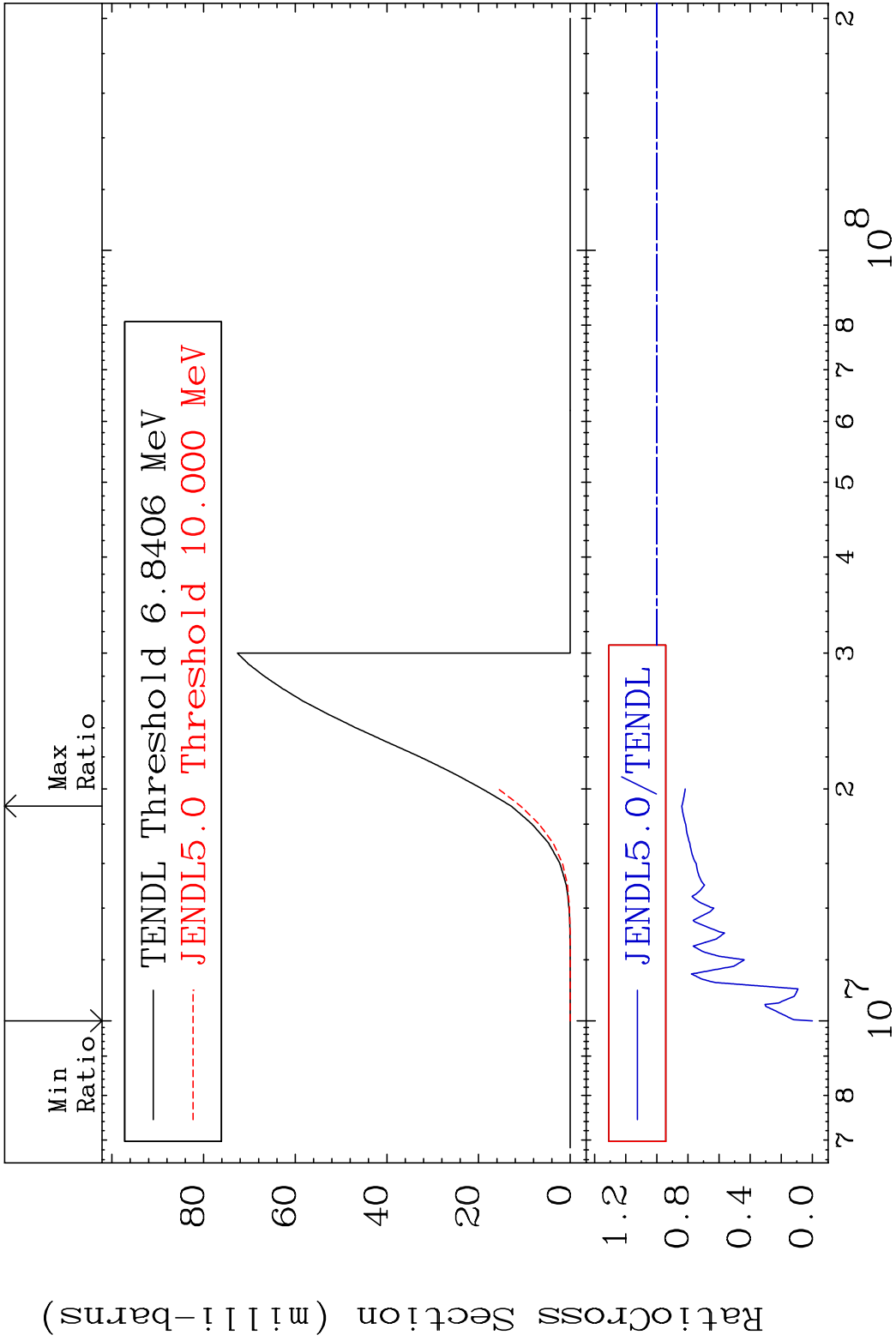
Incident Energy (eV)

70-Yb-171

MAT 7034

(n, n') p 70-Yb-171

Cross Section -100.0 To -16.03%



7

Incident Energy (eV)

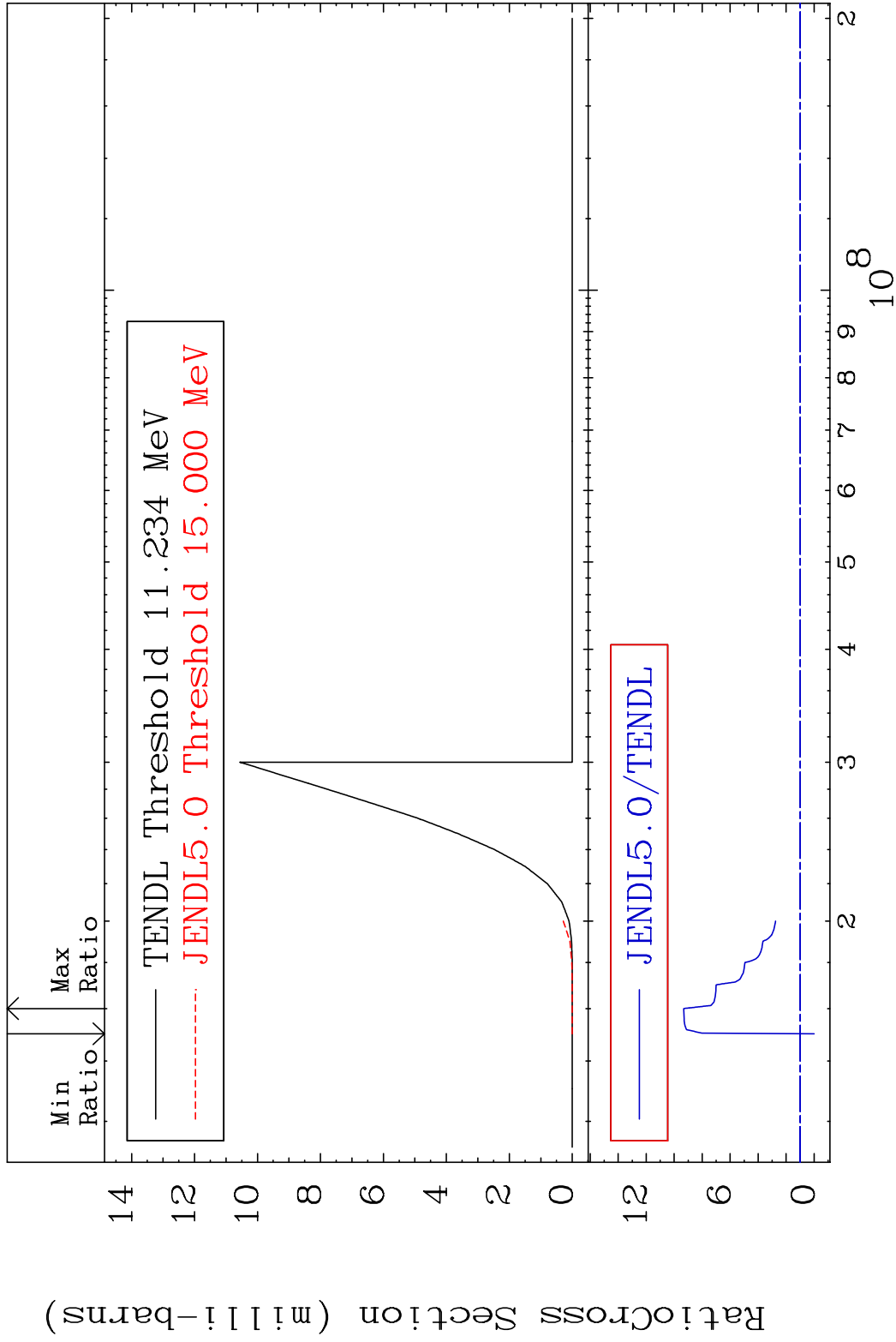
70-Yb-171

MAT 7034

(n, n') d

70-Yb-171

Cross Section -100.0 To 832.3 %

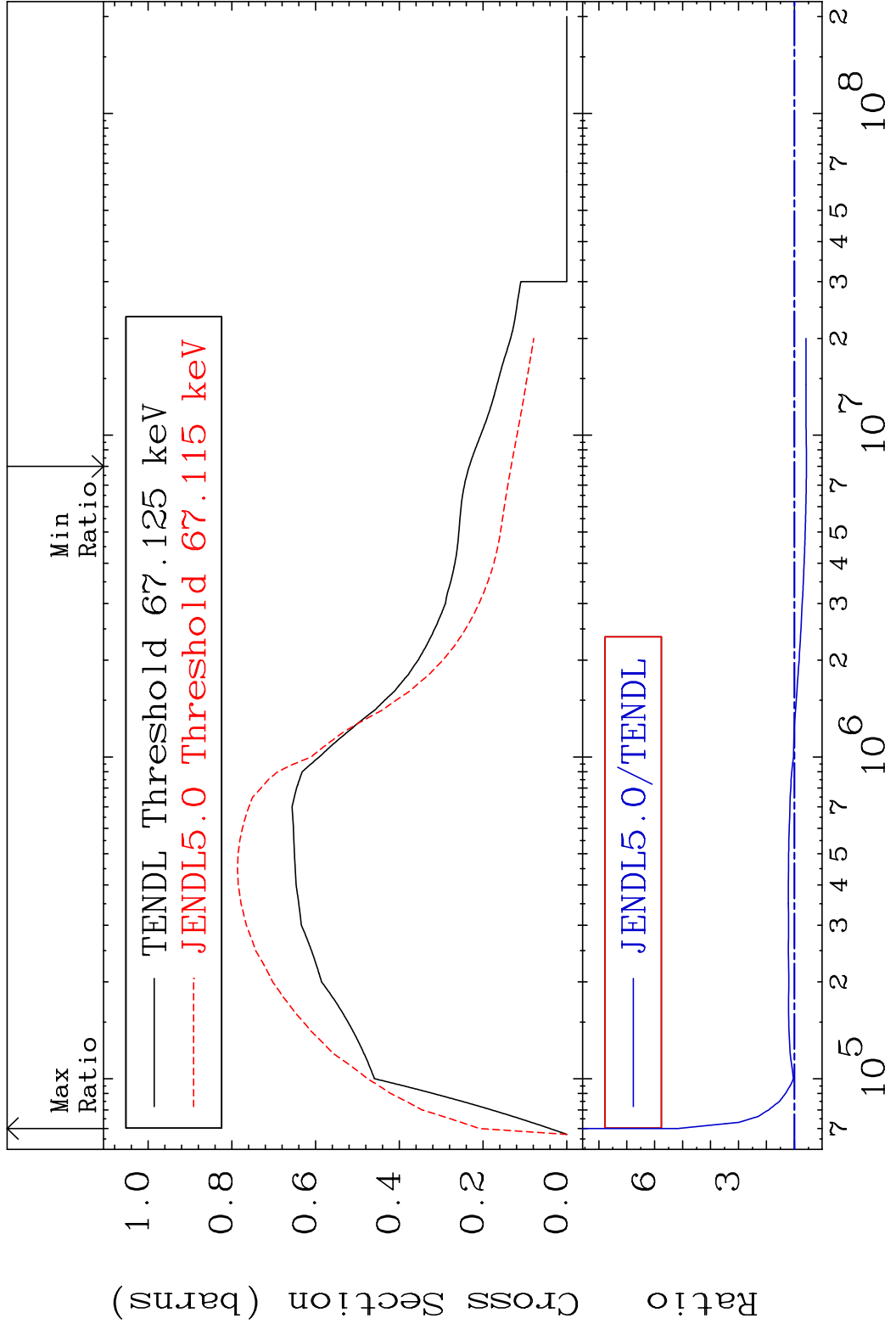


8

Incident Energy (eV)

70-Yb-171

MAT 7034 MT= 51 (n, n') Level 70-Yb-171
 Cross Section -42.88 To 419.5 %



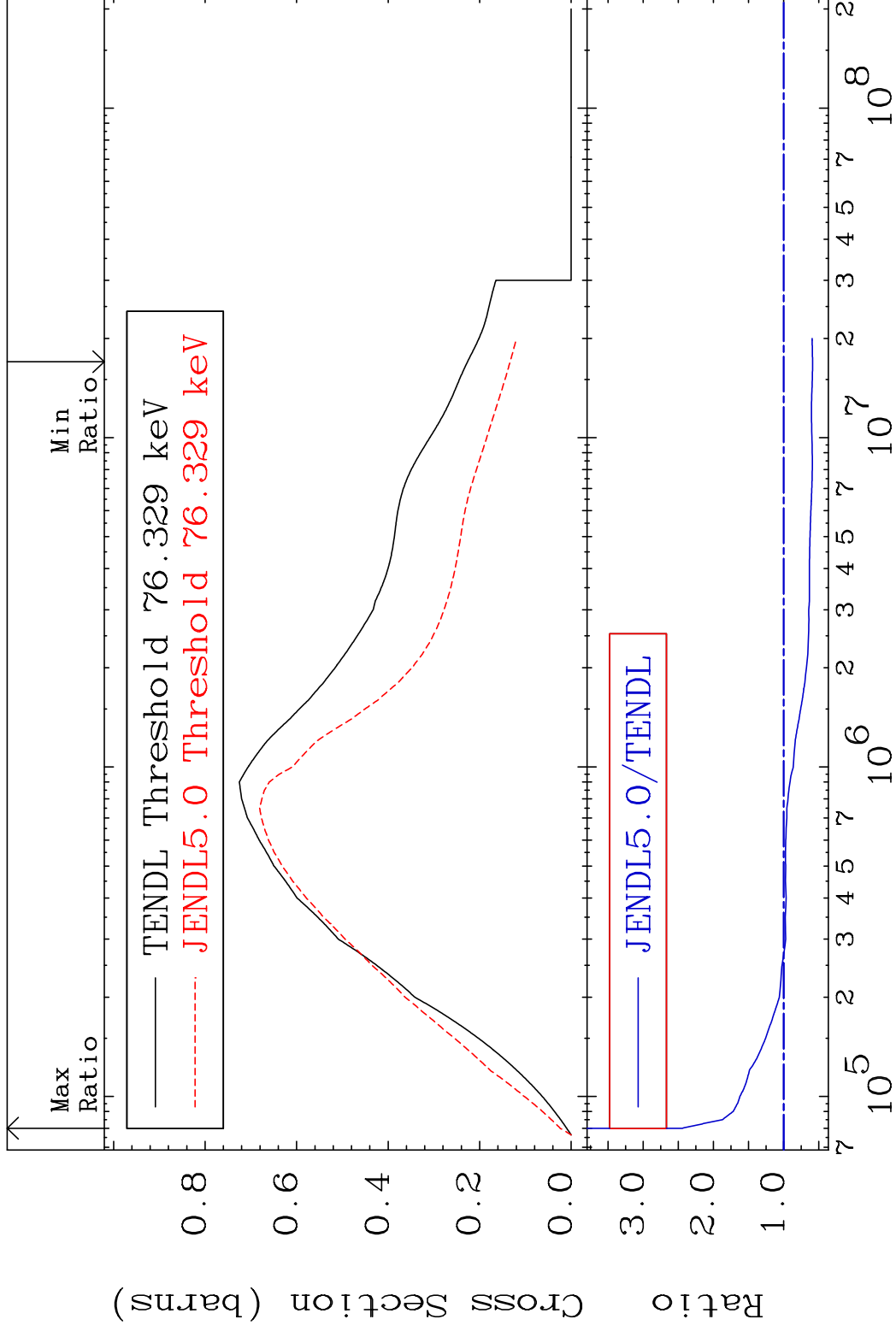
9 Incident Energy (eV) 70-Yb-171

MAT 7034

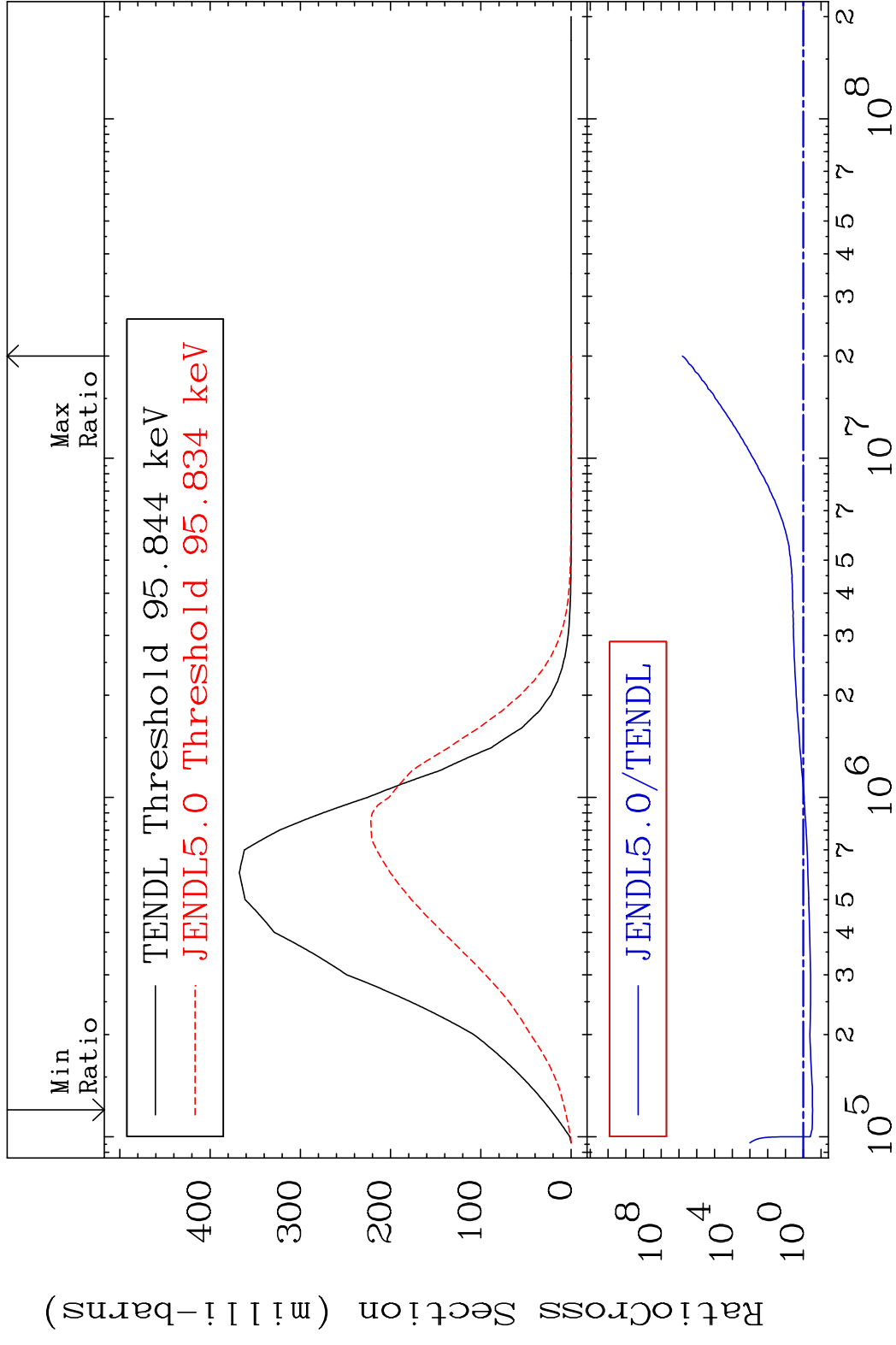
MT= 52 (n,n') Level

70-Yb-171

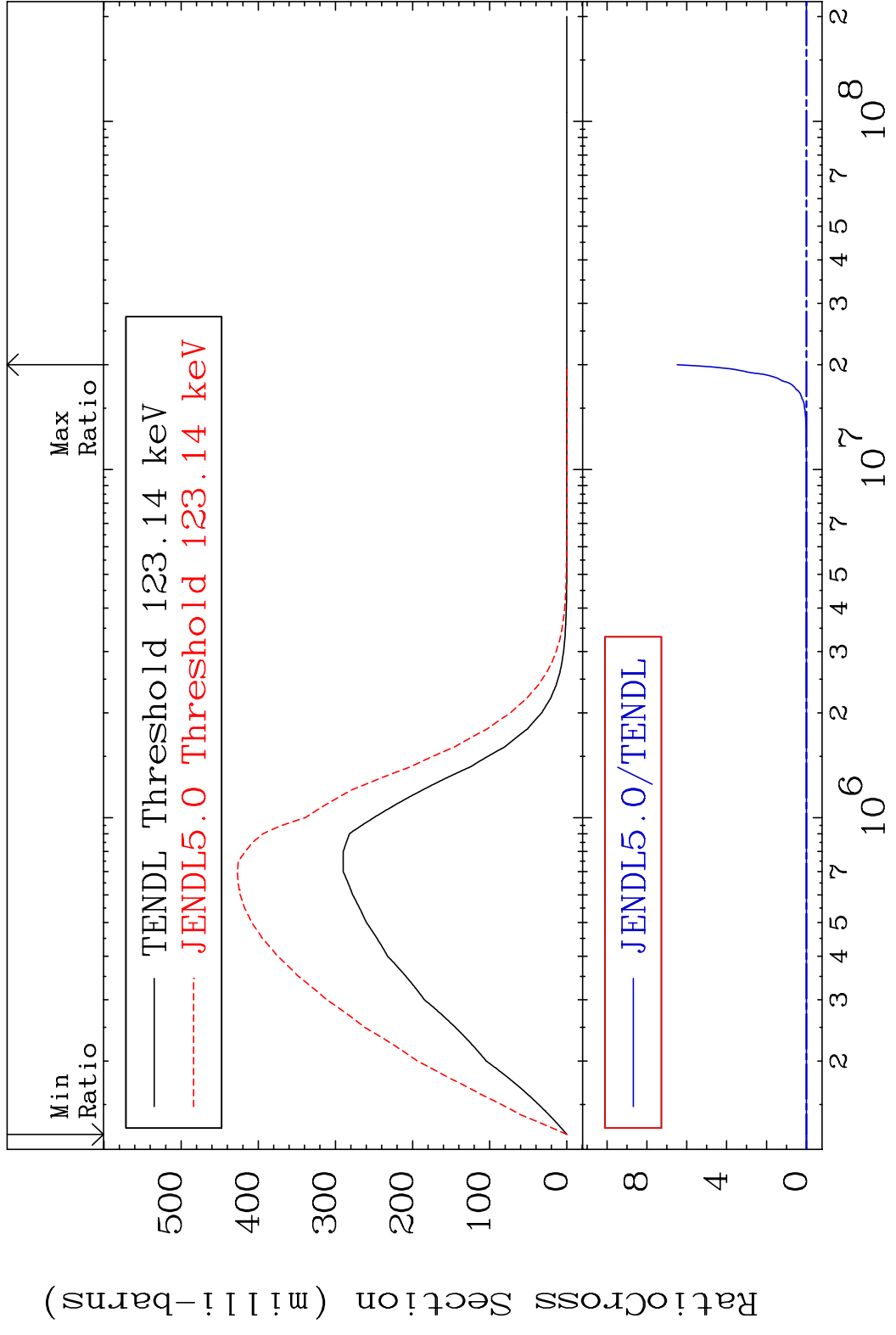
Cross Section -41.12 To 144.3 %



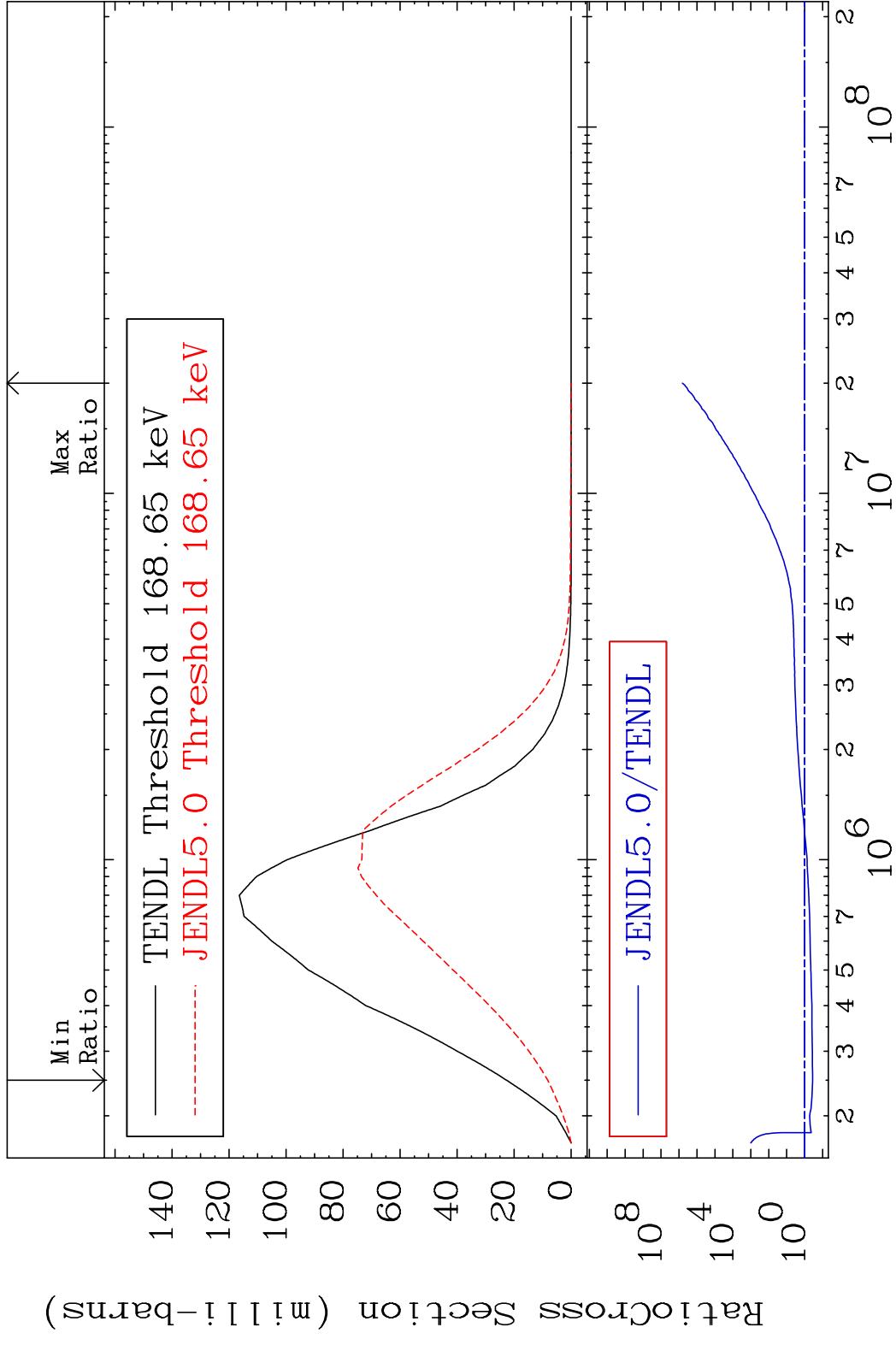
MAT 7034 MT= 53 (n,n') Level 70-Yb-171
 Cross Section -70.14 To 9999. %



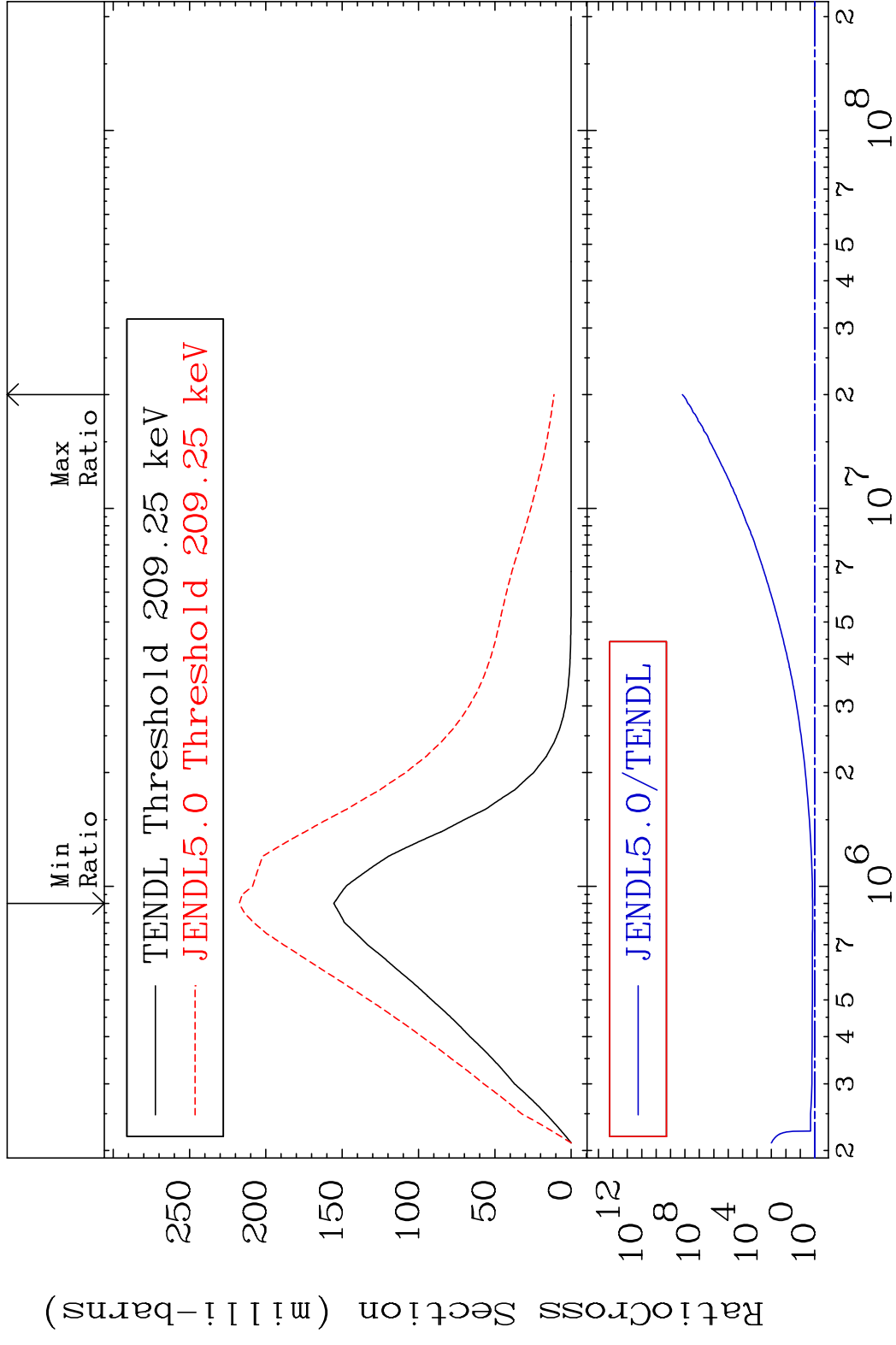
MAT 7034 MT= 54 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 9999. %



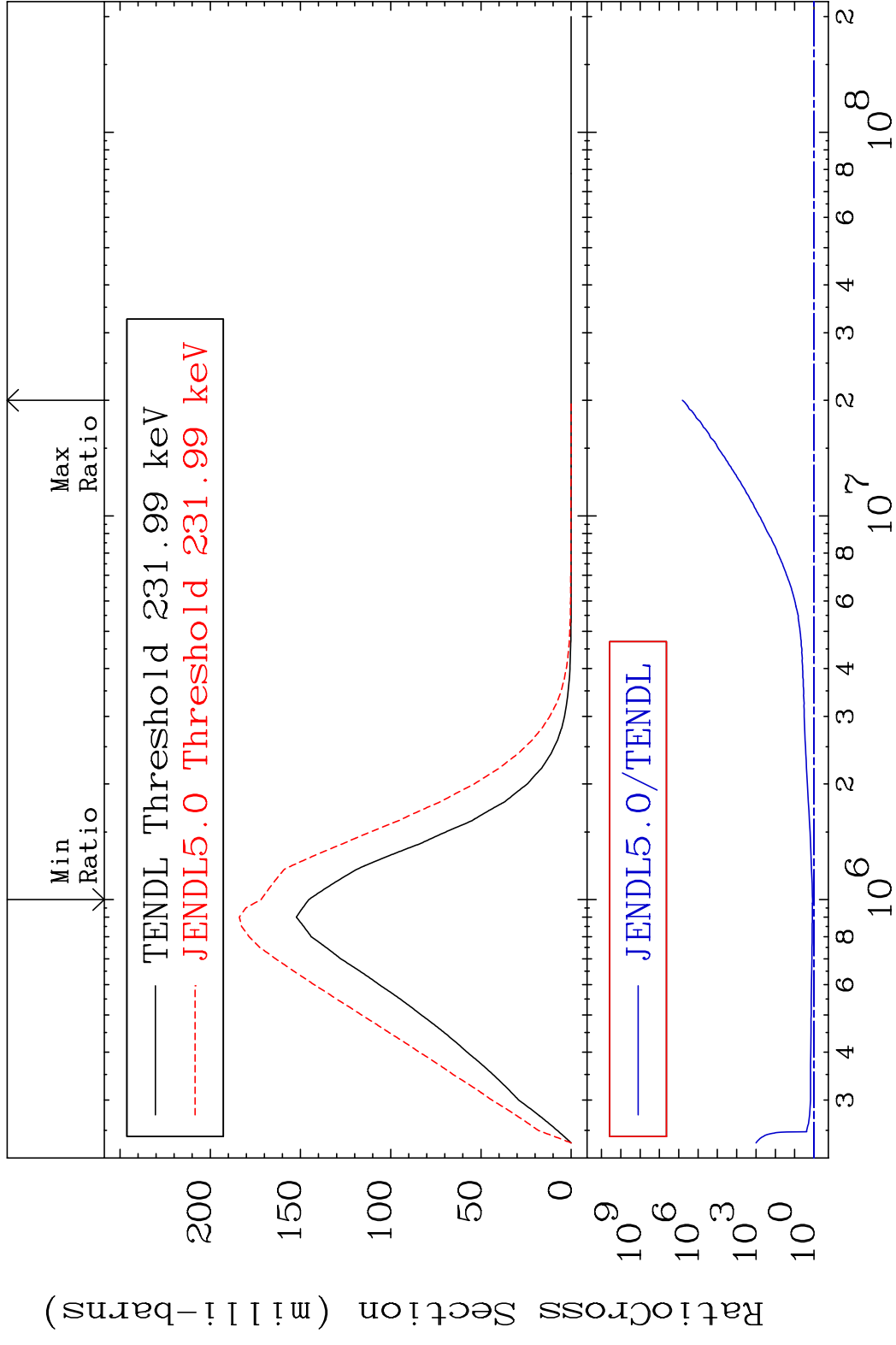
MAT 7034 MT= 55 (n,n') Level 70-Yb-171
 Cross Section -63.76 To 9999. %



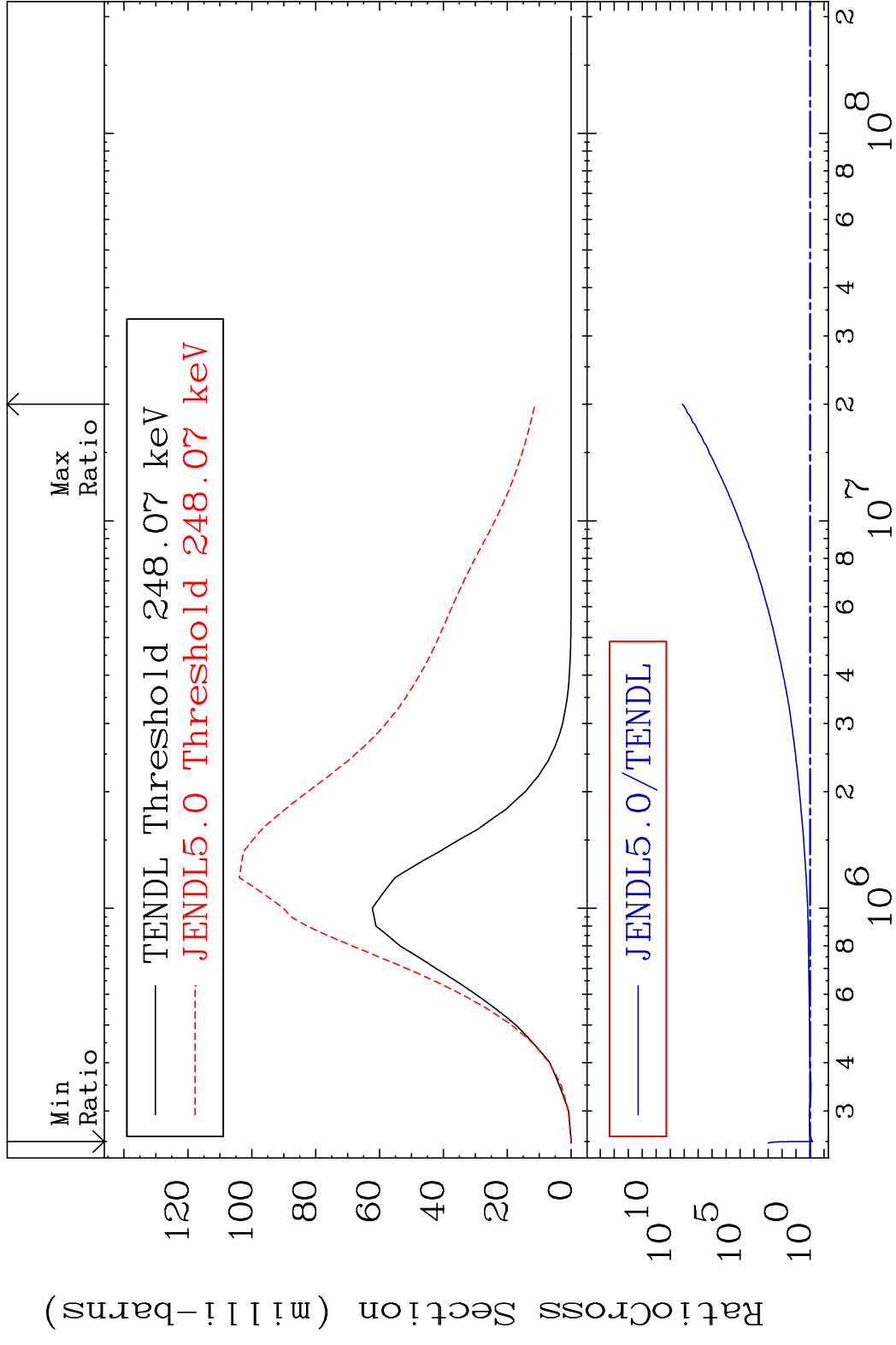
MAT 7034 MT= 56 (n,n') Level 70-Yb-171
 Cross Section 39.81 To 9999. %



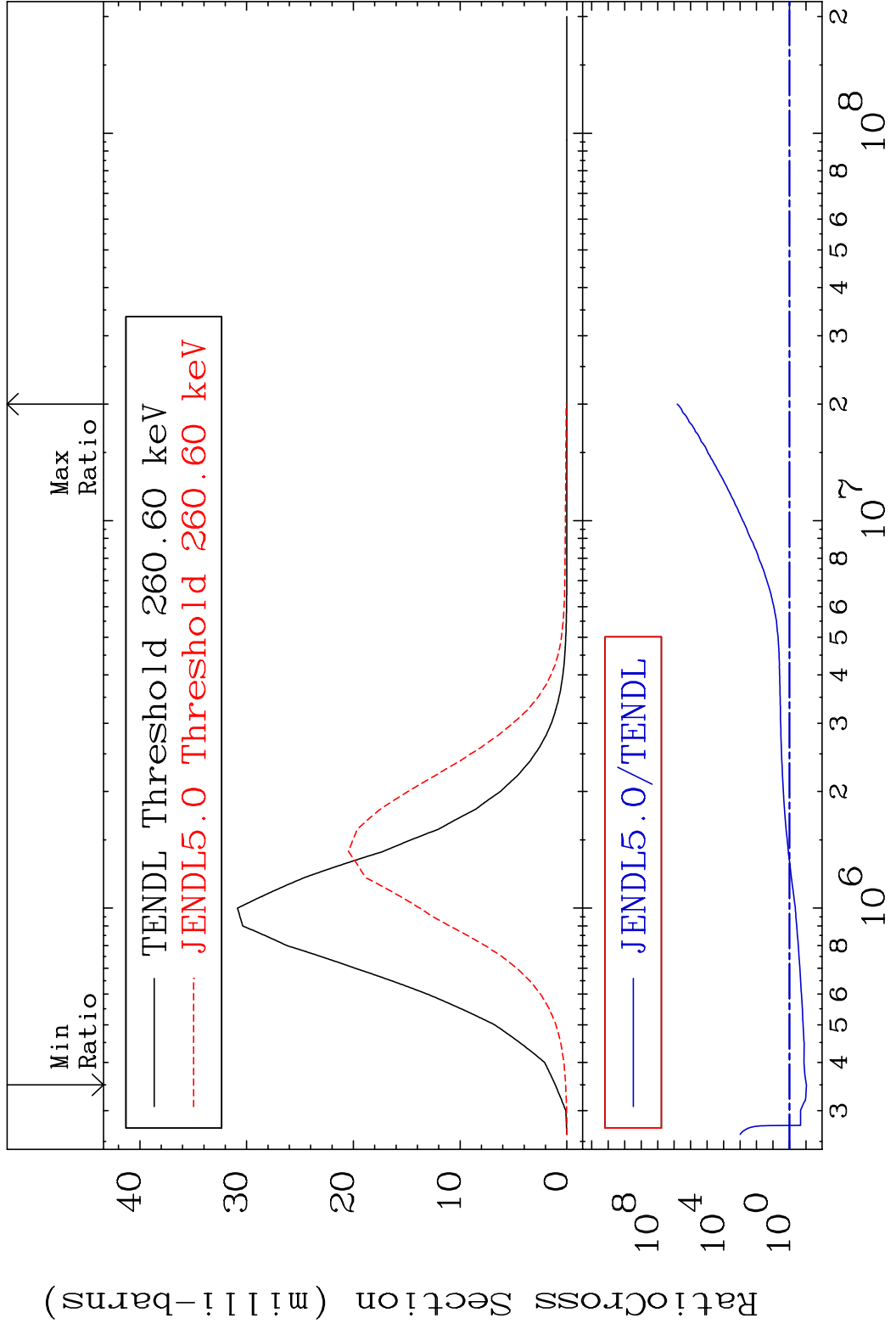
MAT 7034 MT= 57 (n, n') Level 70-Yb-171
 Cross Section 18.19 To 9999. %



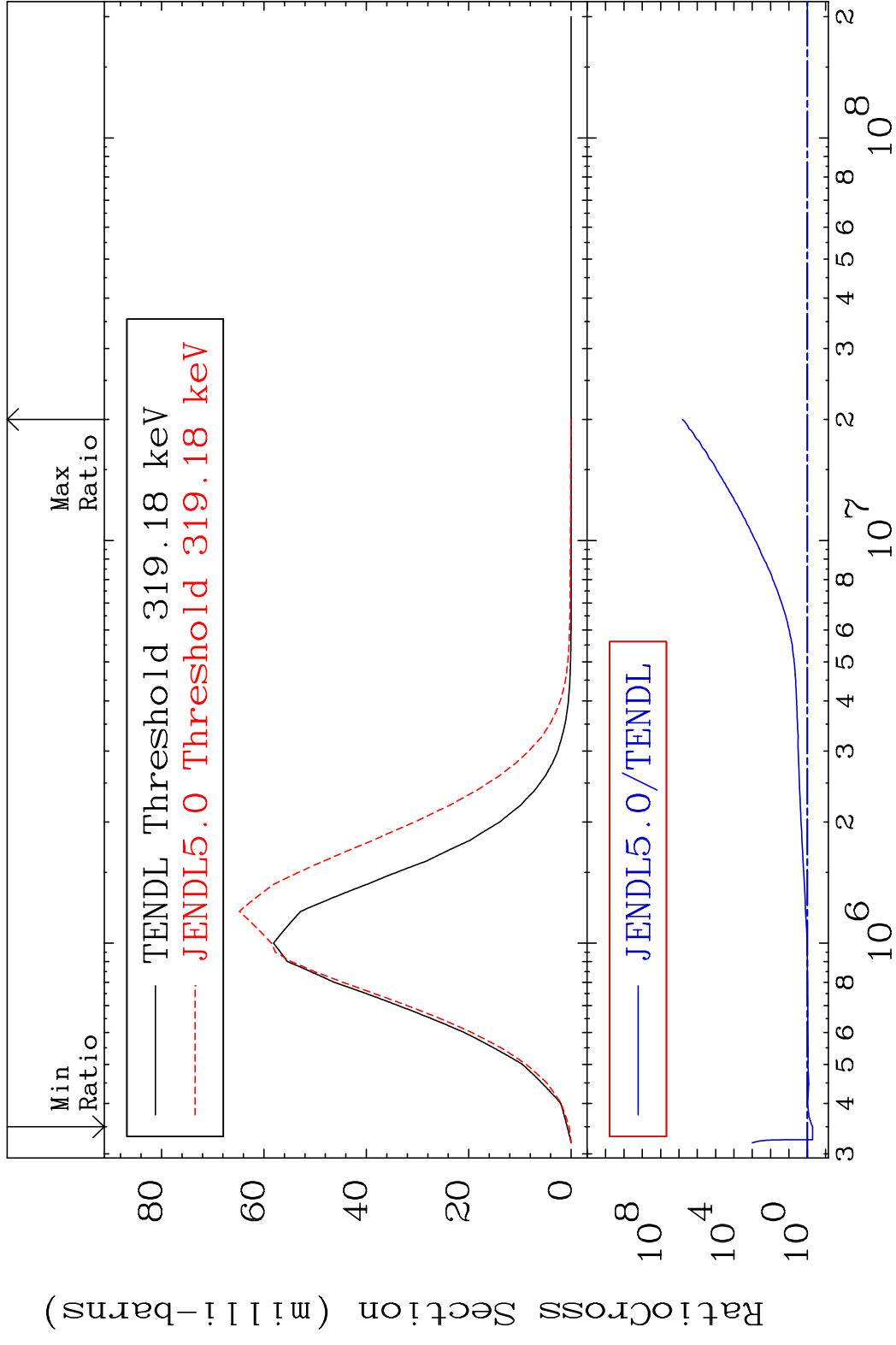
MAT 7034 MT= 58 (n, n') Level 70-Yb-171
 Cross Section -33.99 To 9999. %



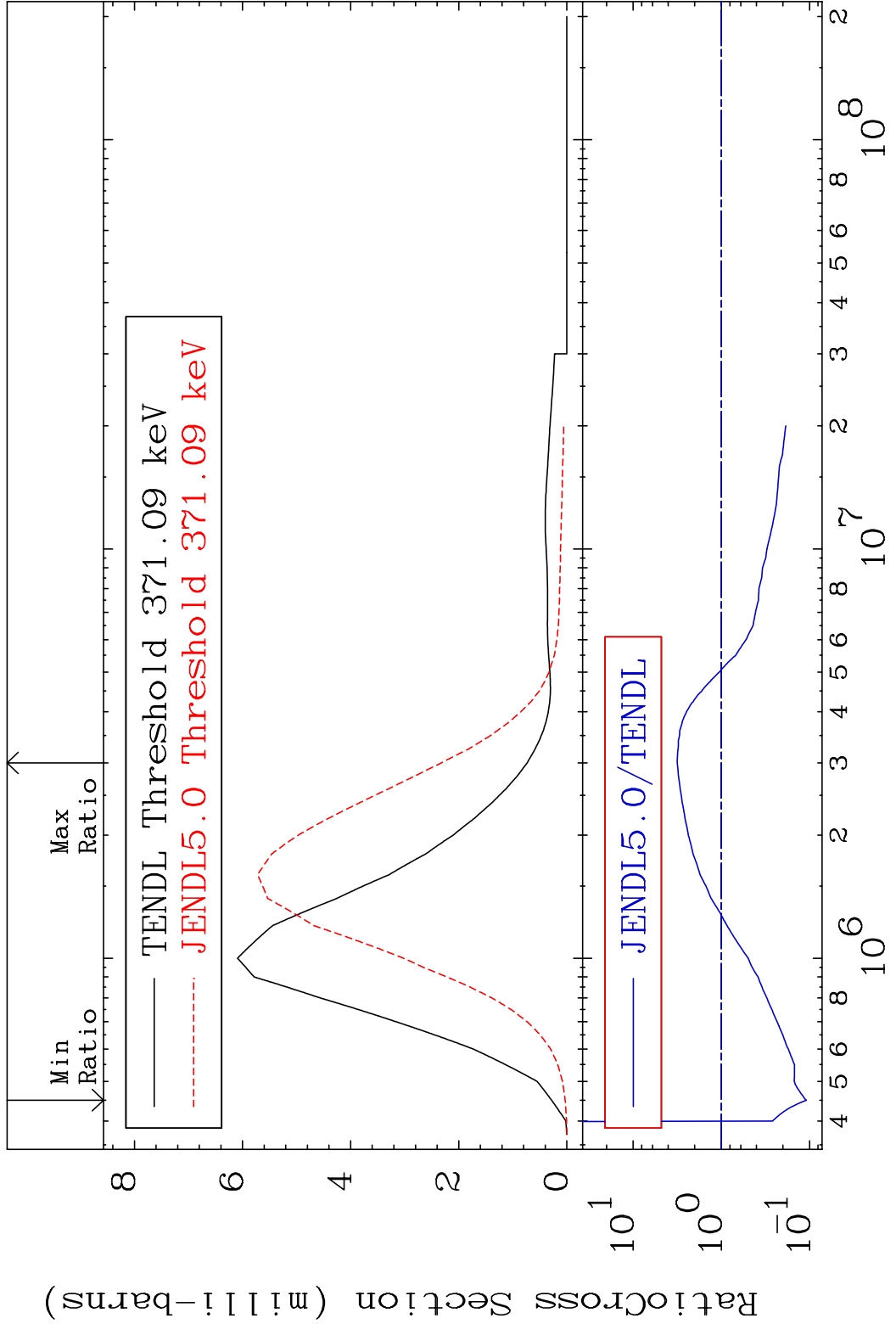
MAT 7034 MT= 59 (n, n') Level 70-Yb-171
 Cross Section -90.56 To 9999. %



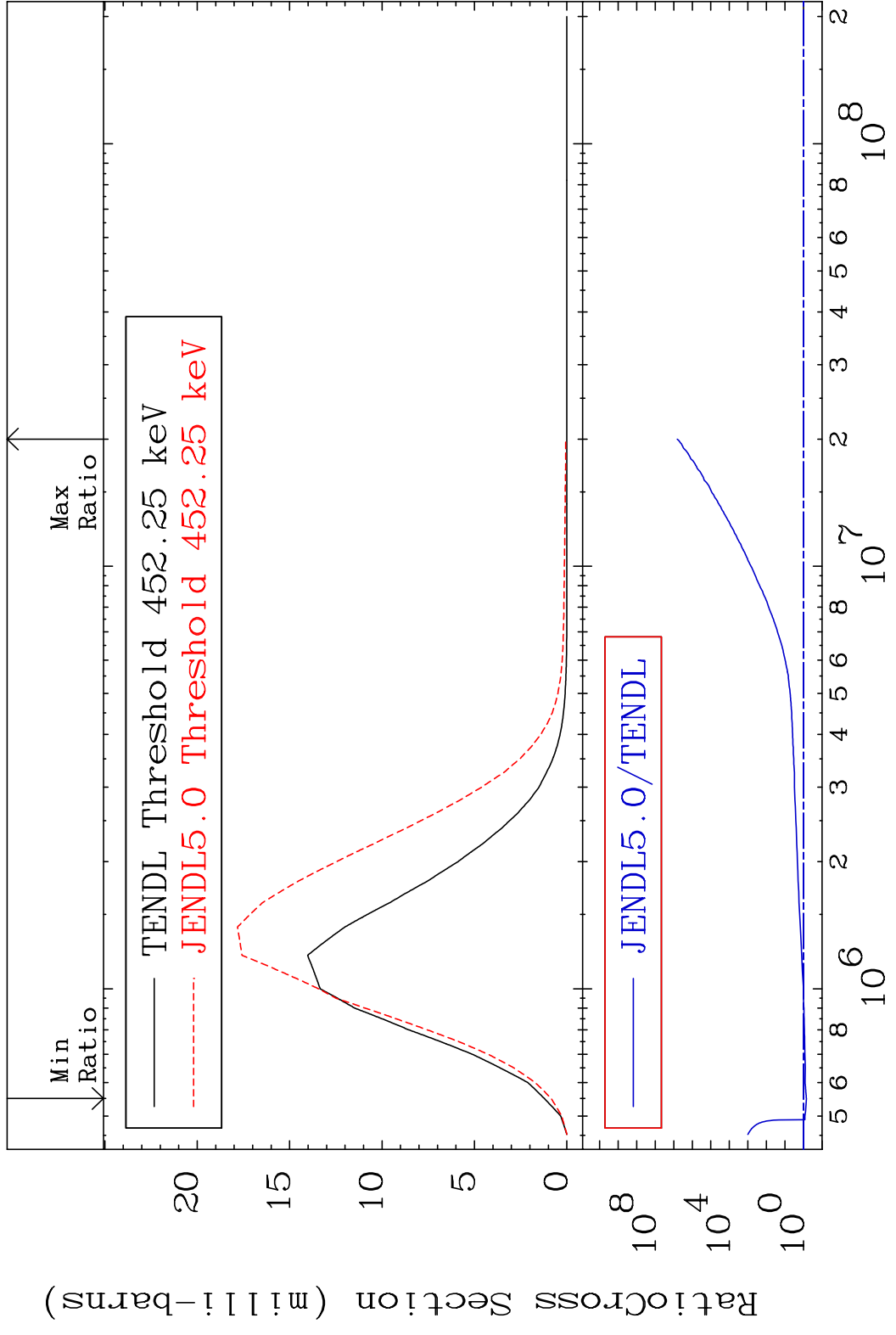
MAT 7034 MT= 60 (n,n') Level 70-Yb-171
 Cross Section -48.45 To 9999. %



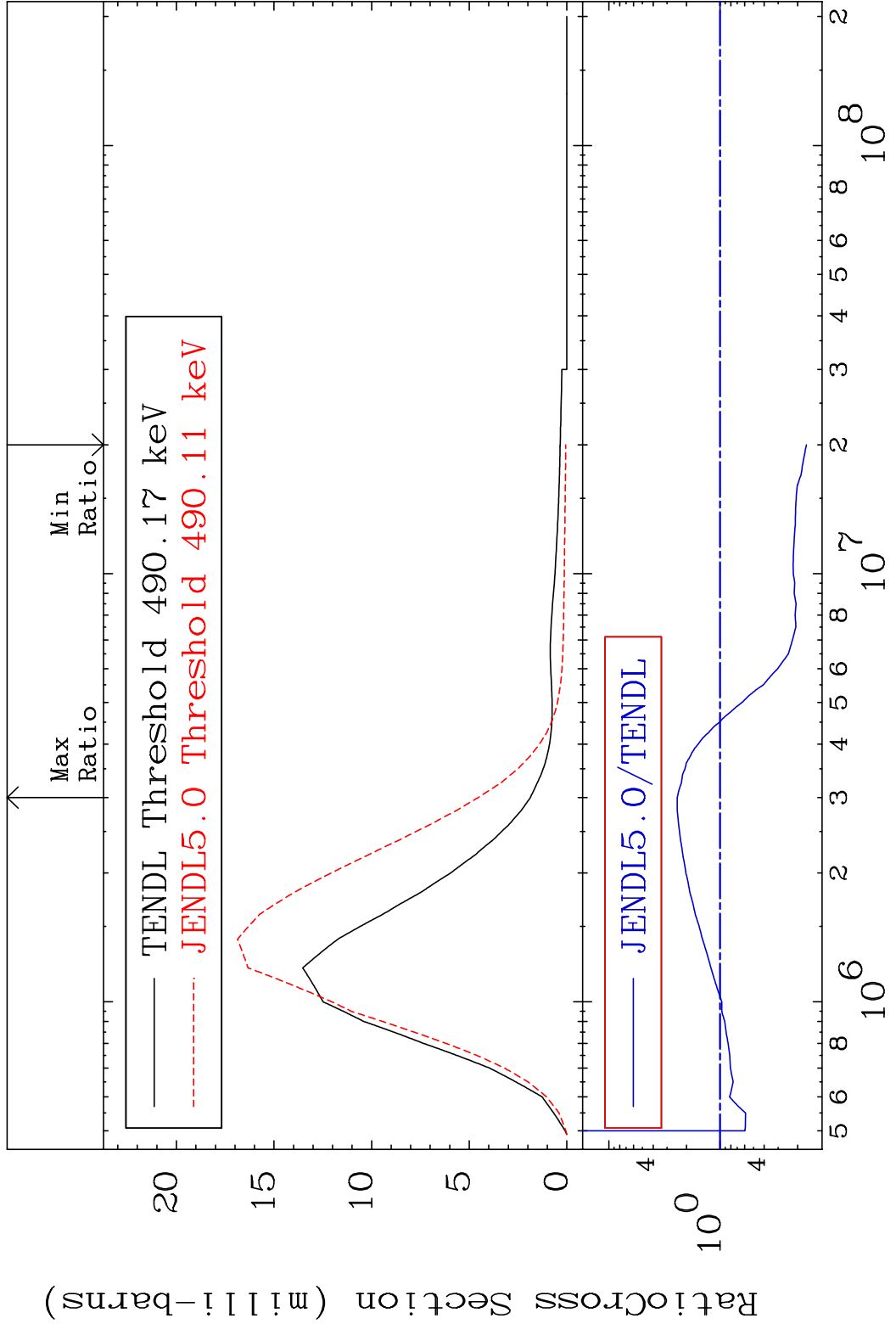
MAT 7034 MT= 61 (n, n') Level 70-Yb-171
 Cross Section -89.15 To 216.3 %



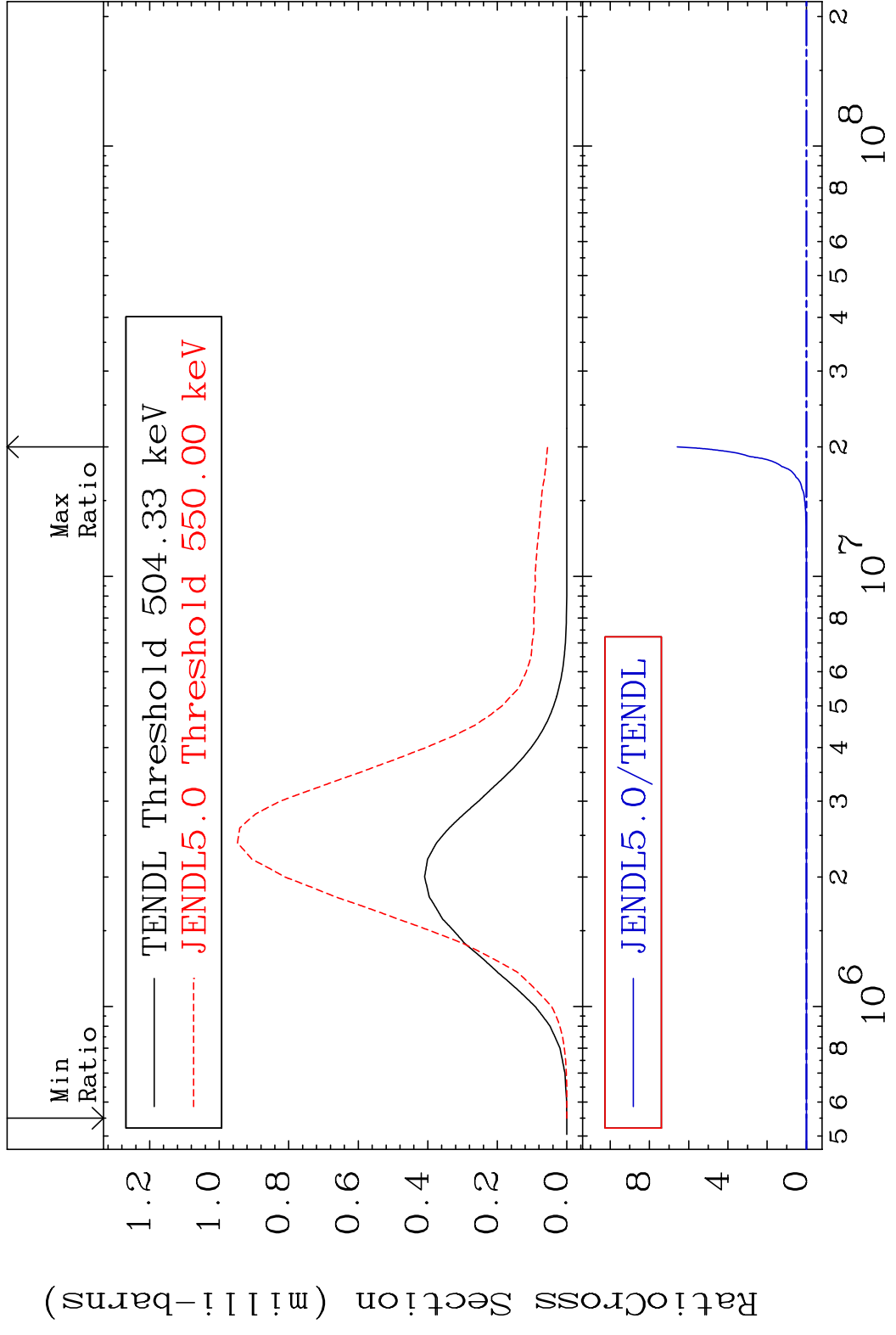
MAT 7034 MT= 62 (n, n') Level 70-Yb-171
 Cross Section -30.72 To 9999. %



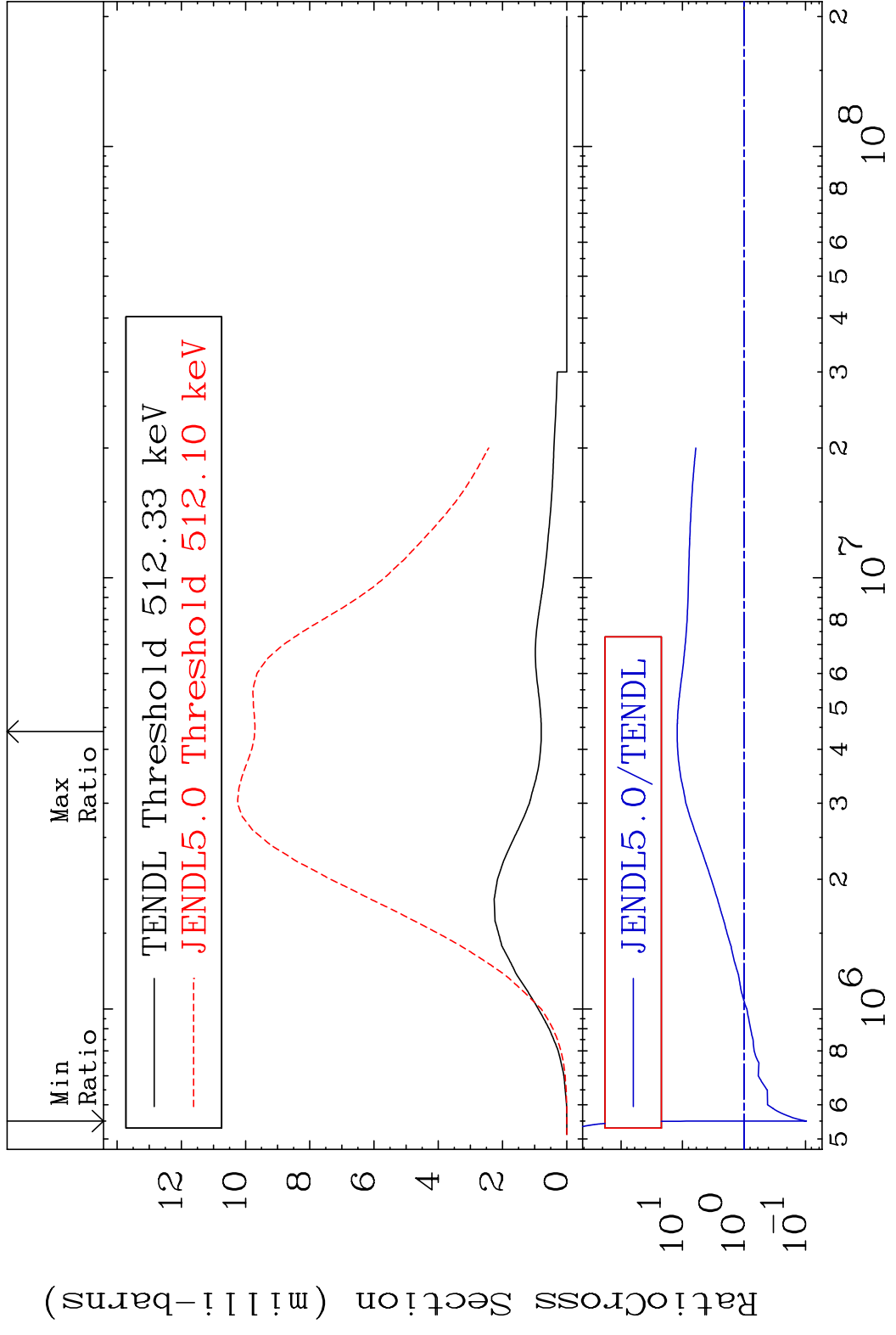
MAT 7034 MT= 63 (n, n') Level 70-Yb-171
 Cross Section -83.30 To 142.9 %



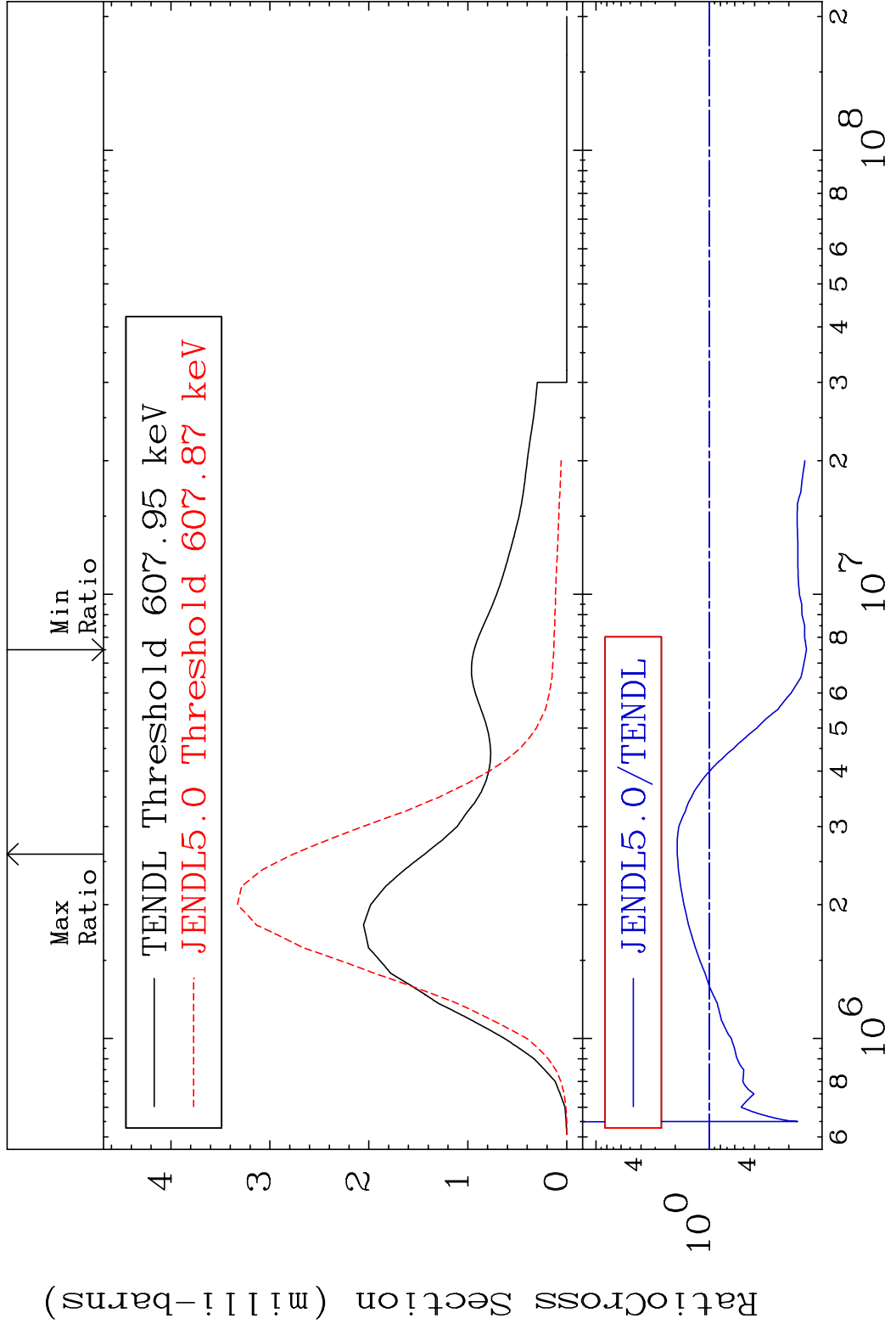
MAT 7034 MT= 64 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 9999. %



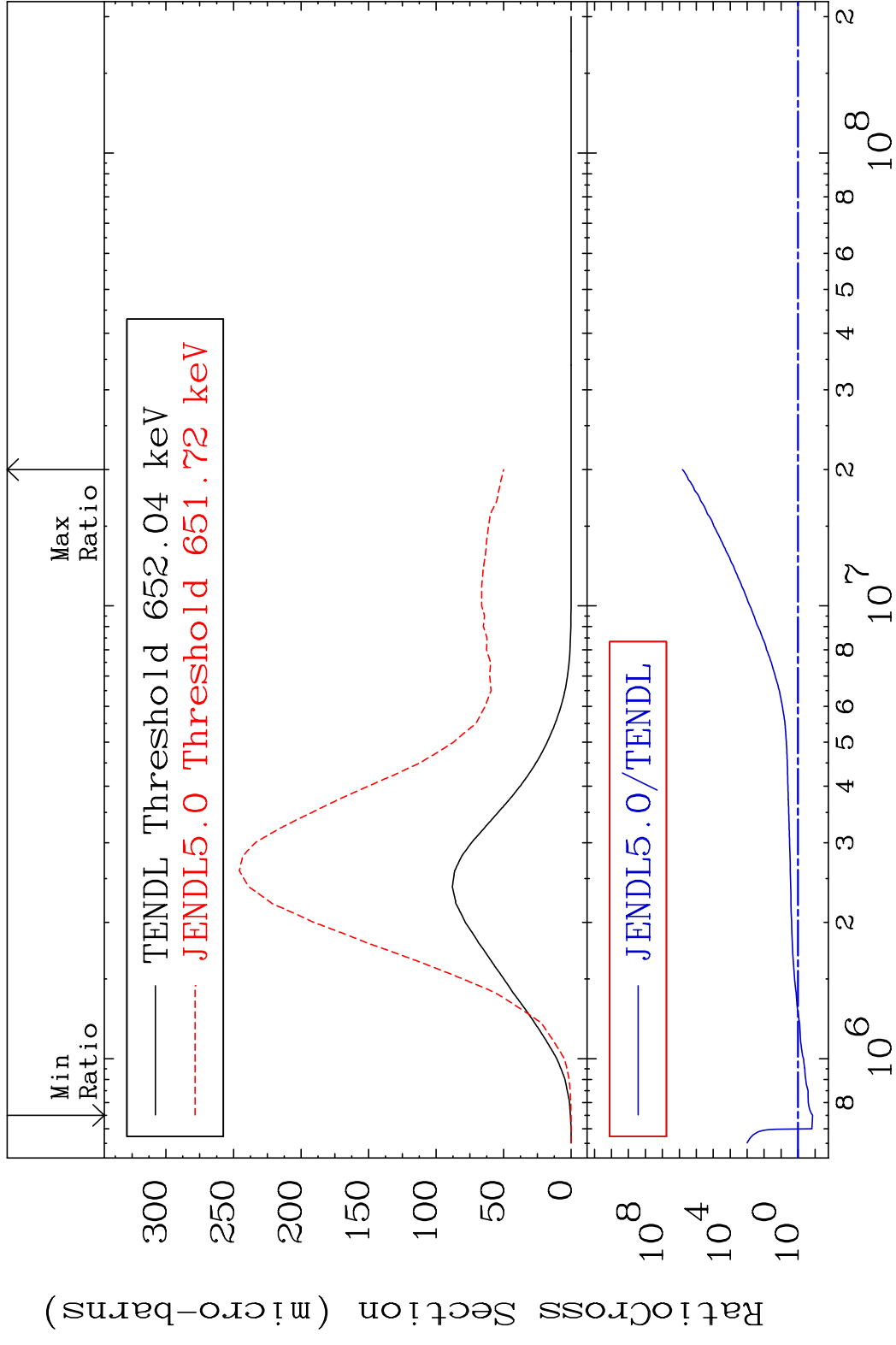
MAT 7034 MT= 65 (n, n') Level 70-Yb-171
 Cross Section -90.30 To 1121. %



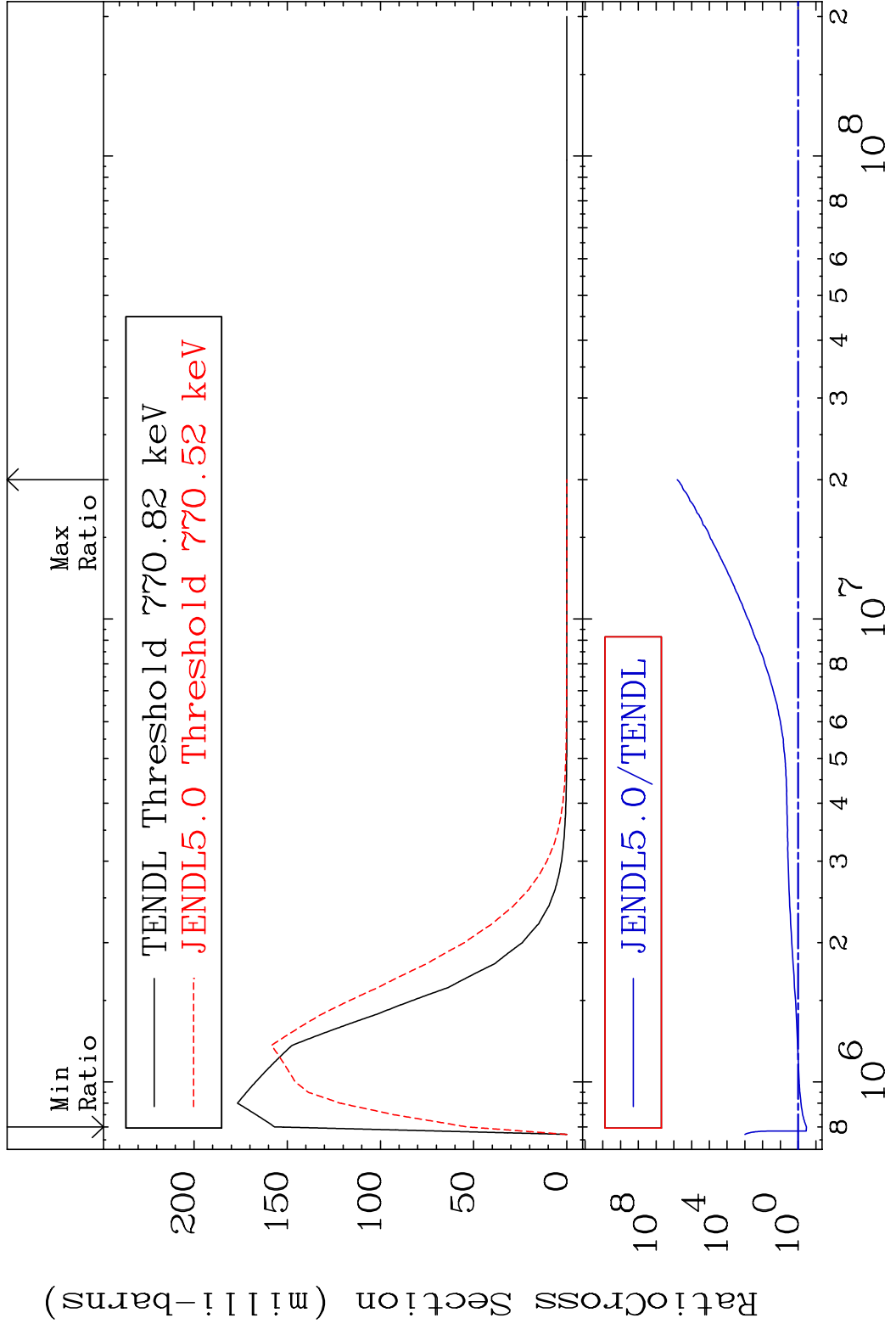
MAT 7034 MT= 66 (n,n') Level 70-Yb-171
 Cross Section -86.01 To 92.30 %



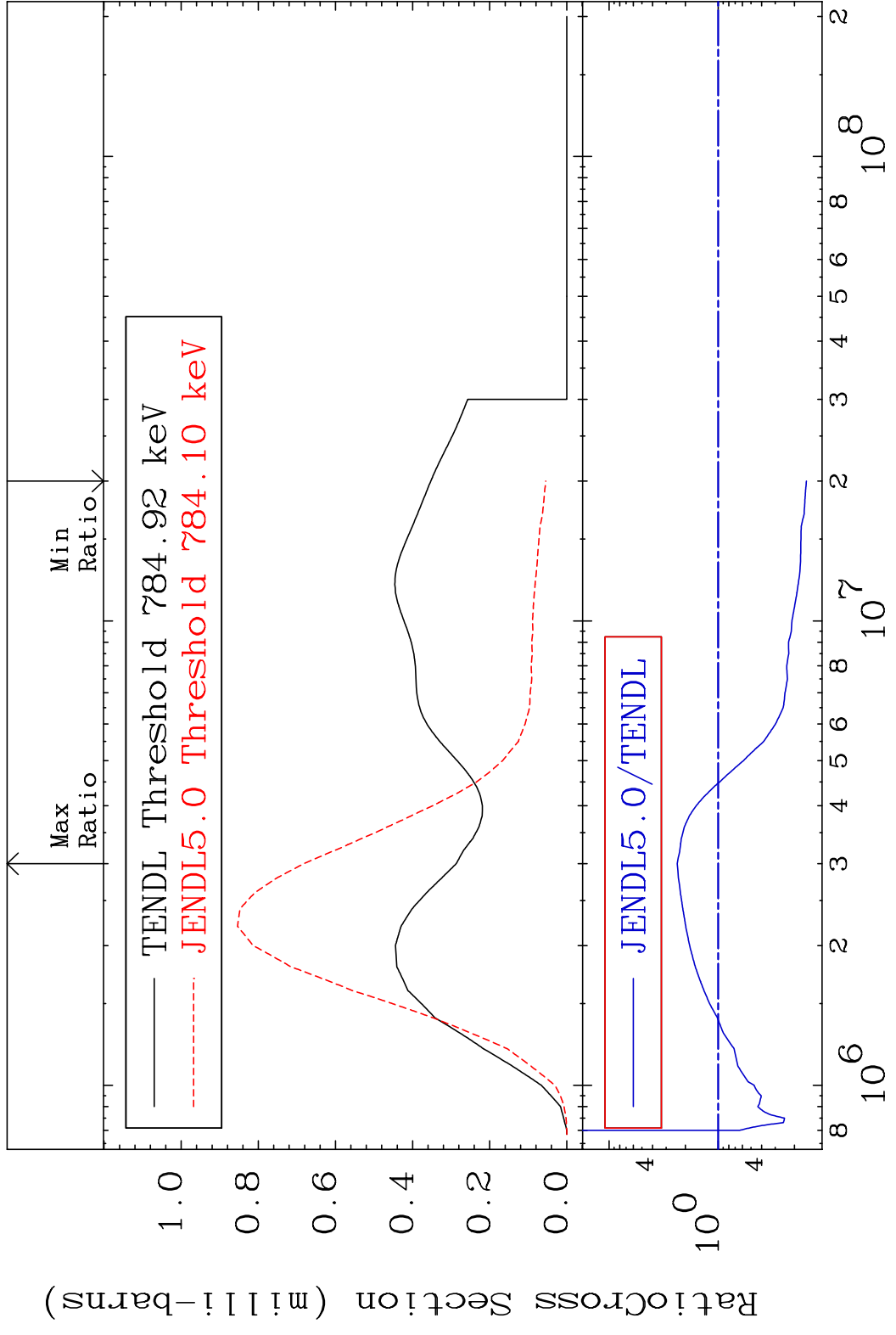
MAT 7034 MT= 67 (n, n') Level 70-Yb-171
 Cross Section -86.00 To 9999. %



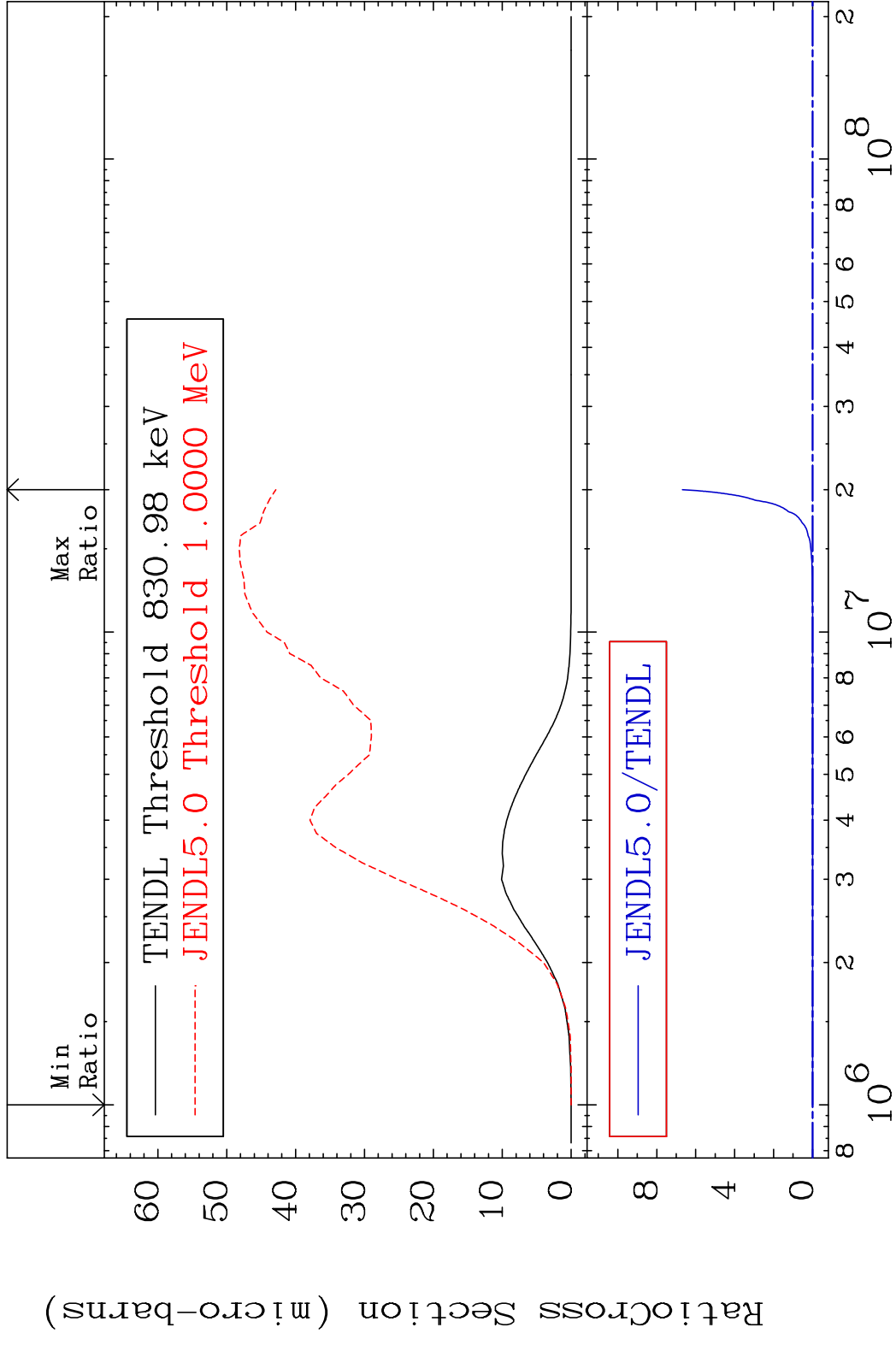
MAT 7034 MT= 68 (n, n') Level 70-Yb-171
 Cross Section -65.72 To 9999. %



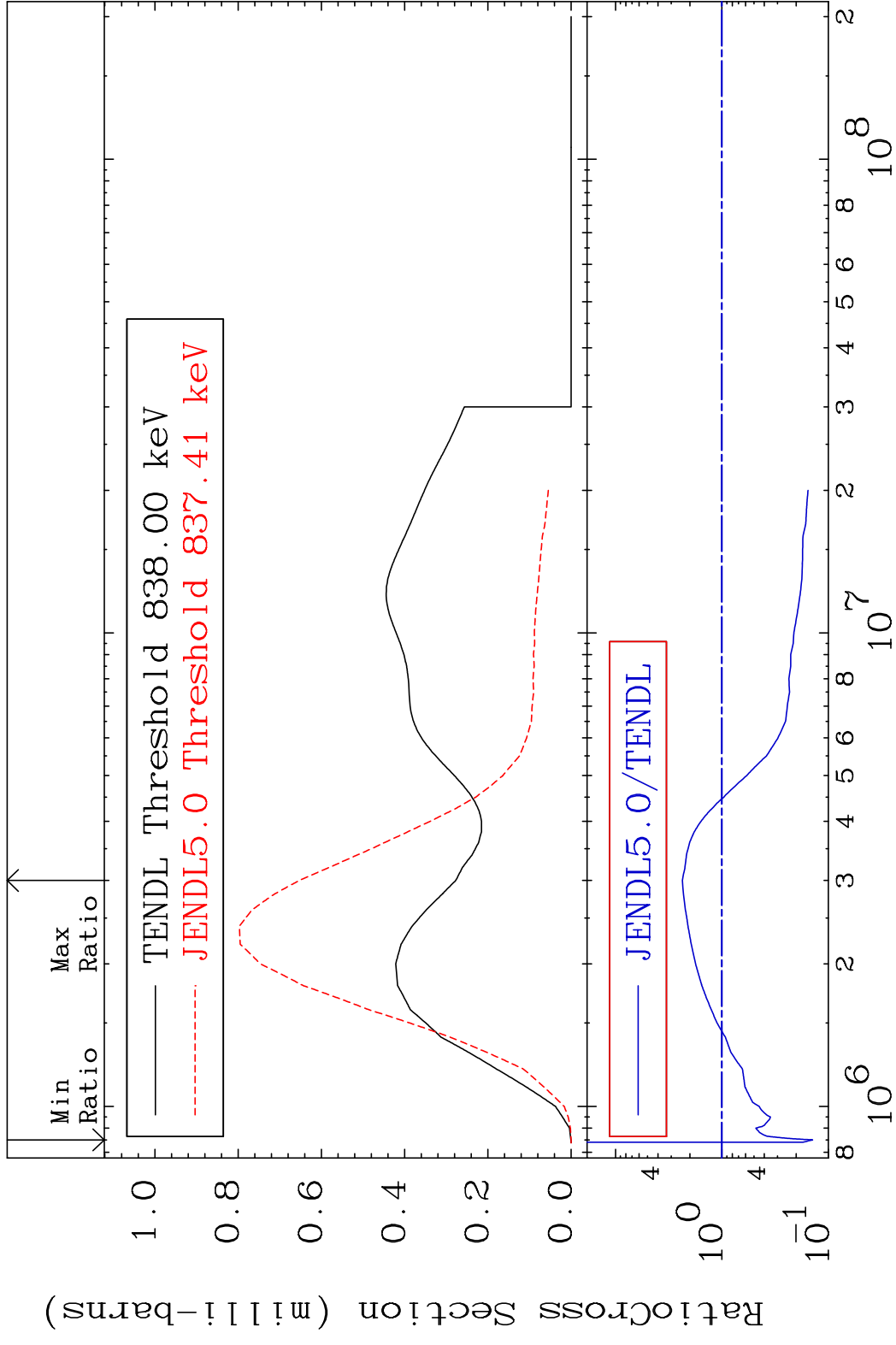
MAT 7034 MT= 69 (n, n') Level 70-Yb-171
 Cross Section -84.47 To 137.8 %



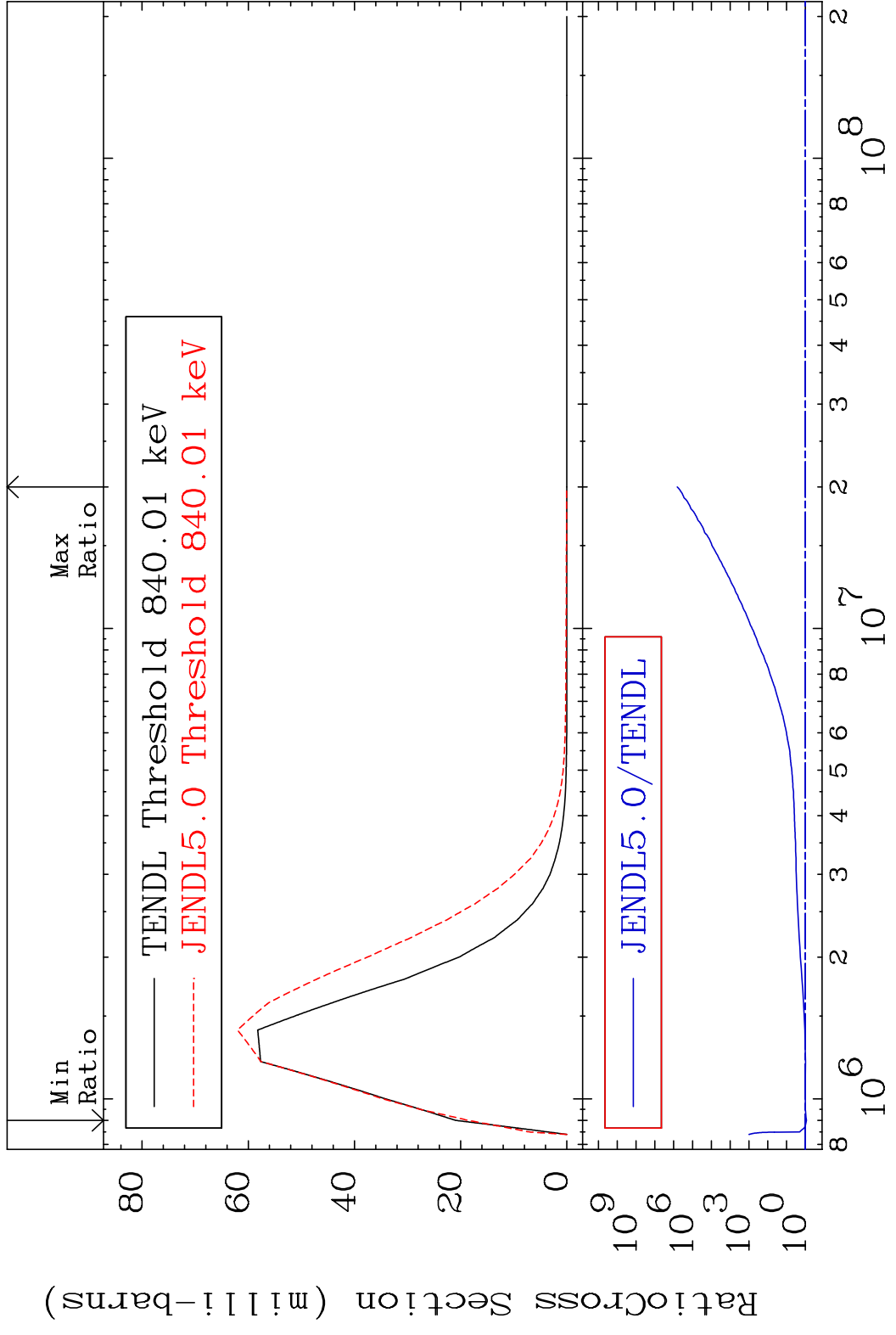
MAT 7034 MT= 70 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 9999. %



MAT 7034 MT= 71 (n,n') Level 70-Yb-171
 Cross Section -85.94 To 135.6 %

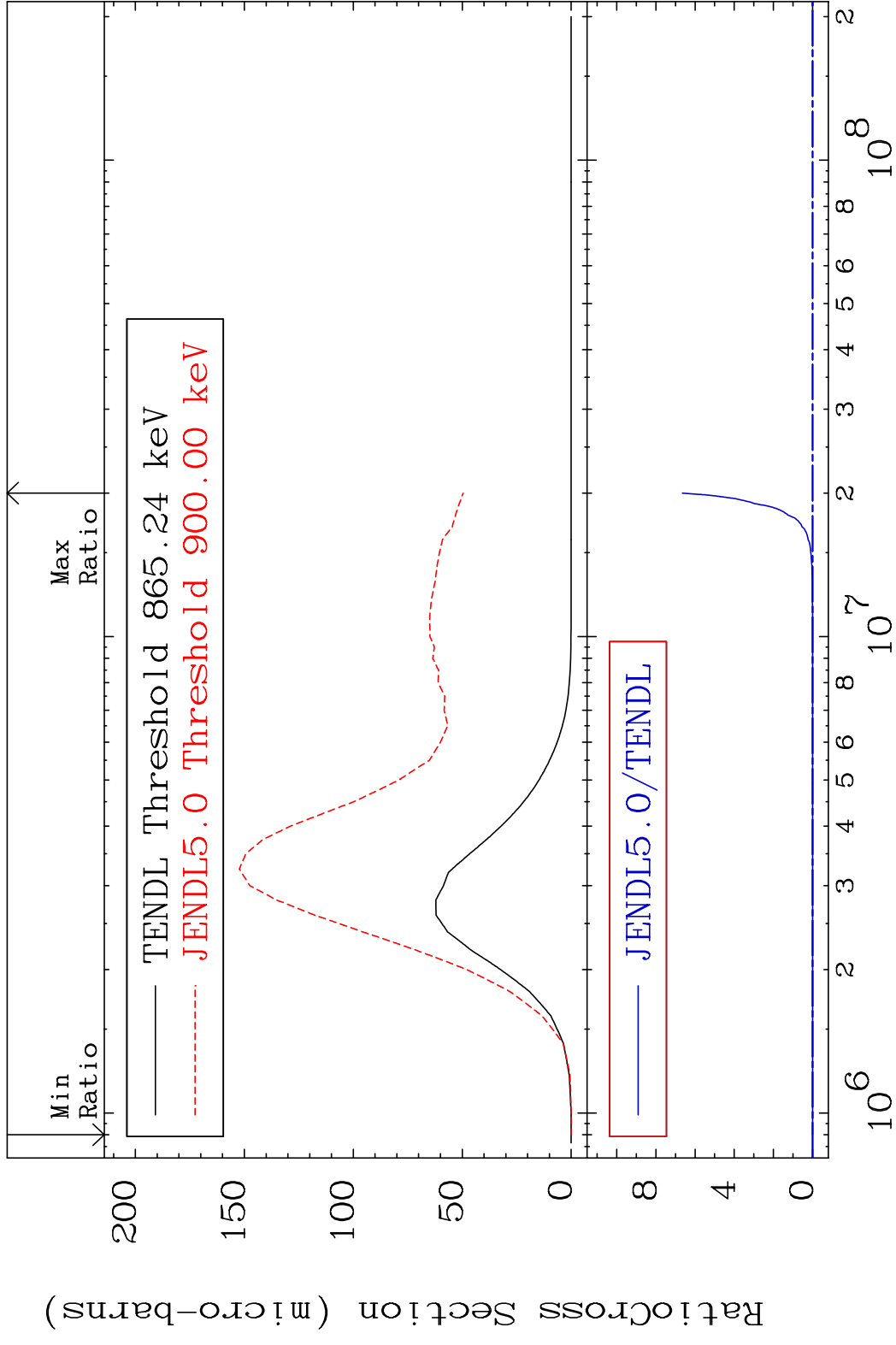


MAT 7034 MT= 72 (n, n') Level 70-Yb-171
 Cross Section -11.22 To 9999. %

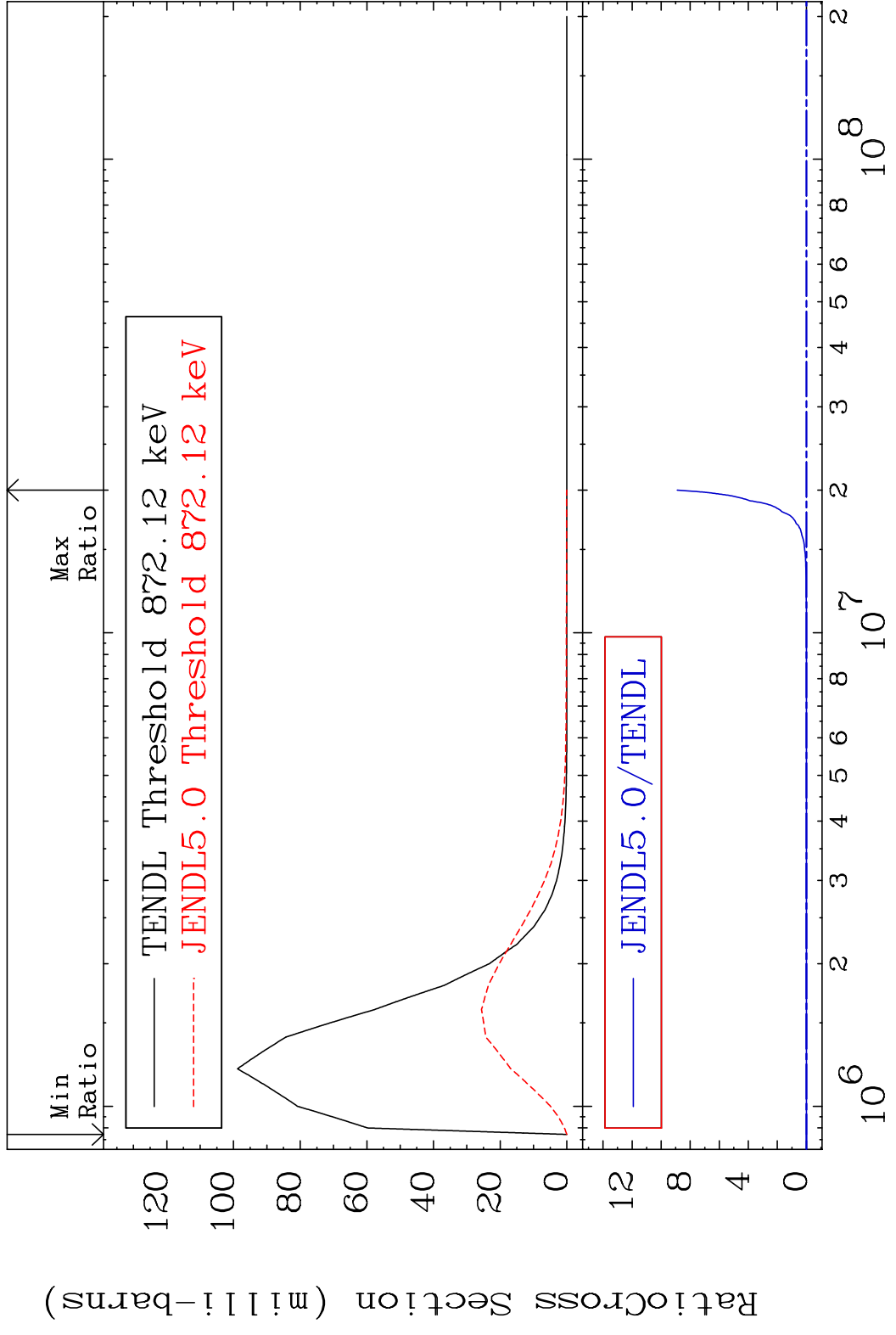


30 Incident Energy (eV) 70-Yb-171

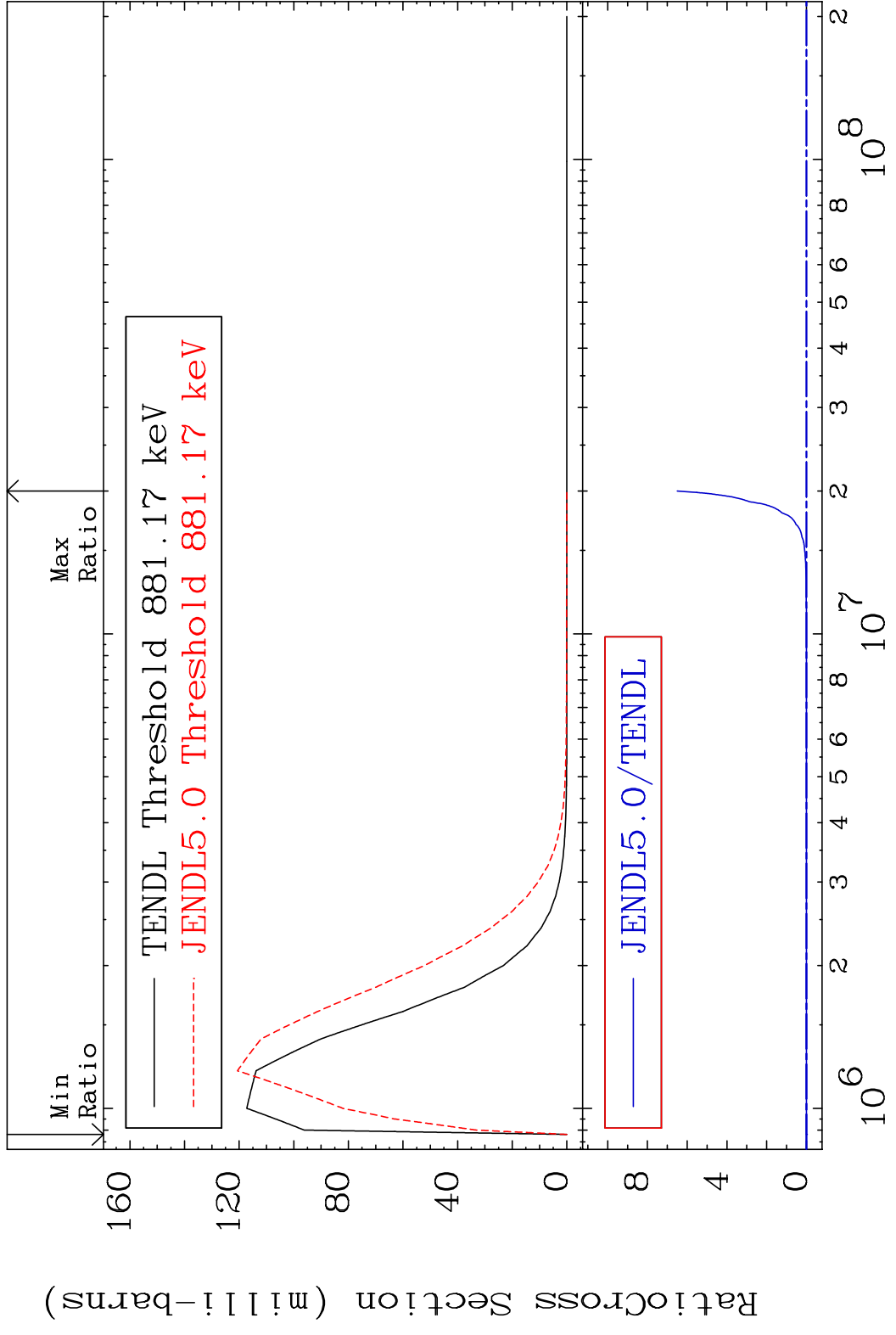
MAT 7034 MT= 73 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 9999. %



MAT 7034 MT= 74 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 9999. %

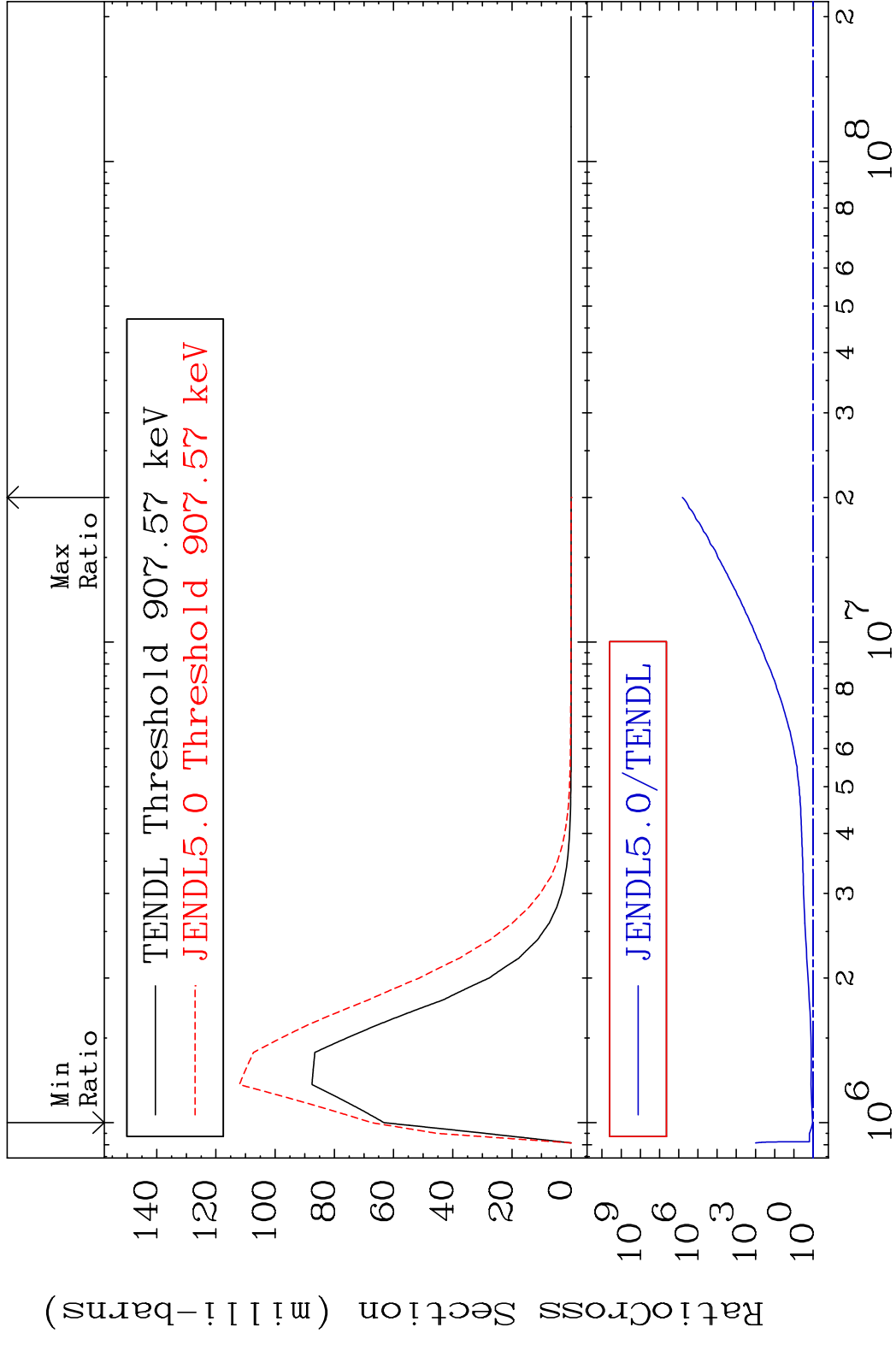


MAT 7034 MT= 75 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 9999. %

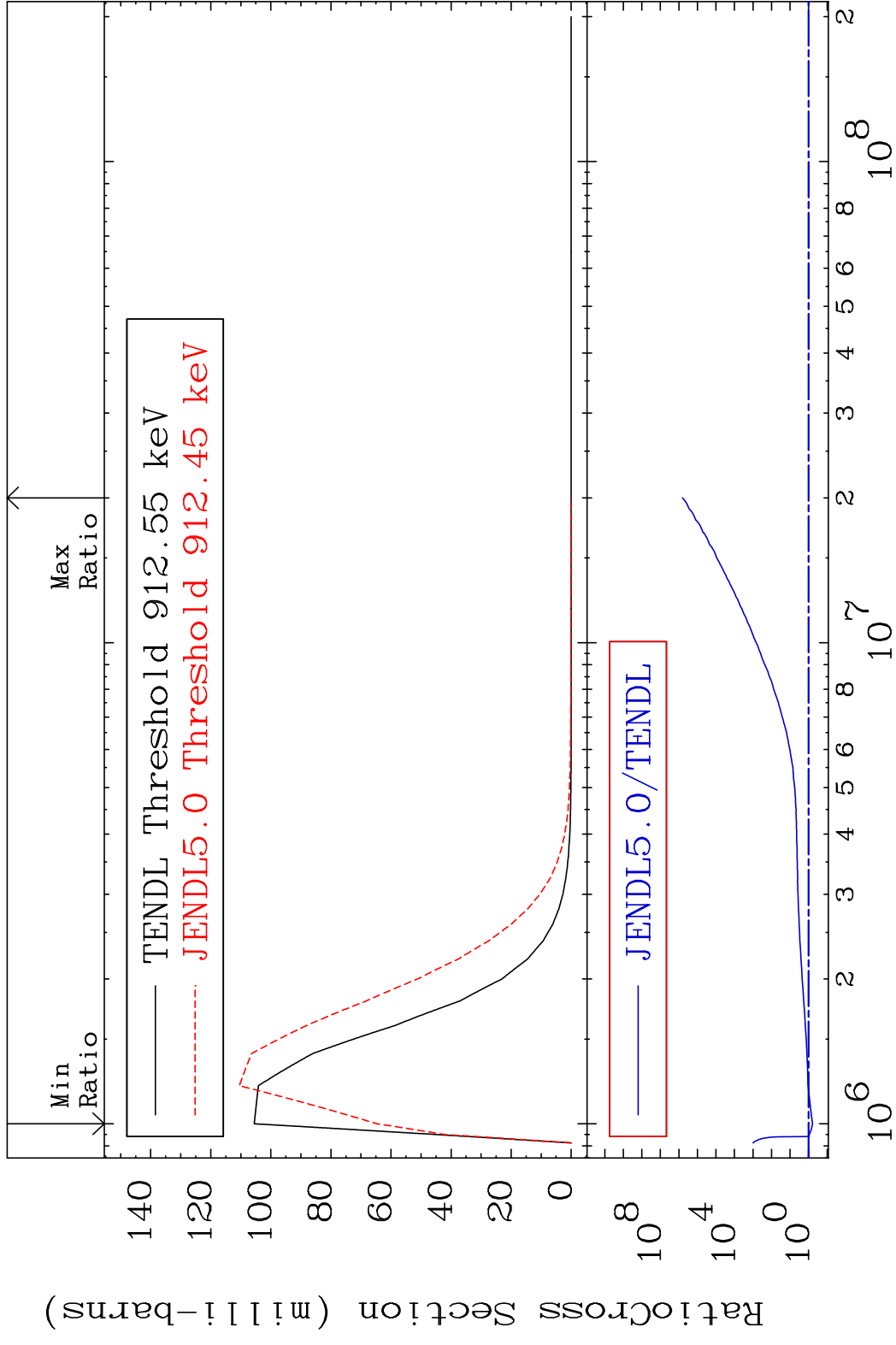


33 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 76 (n, n') Level 70-Yb-171
 Cross Section 6.537 To 9999. %

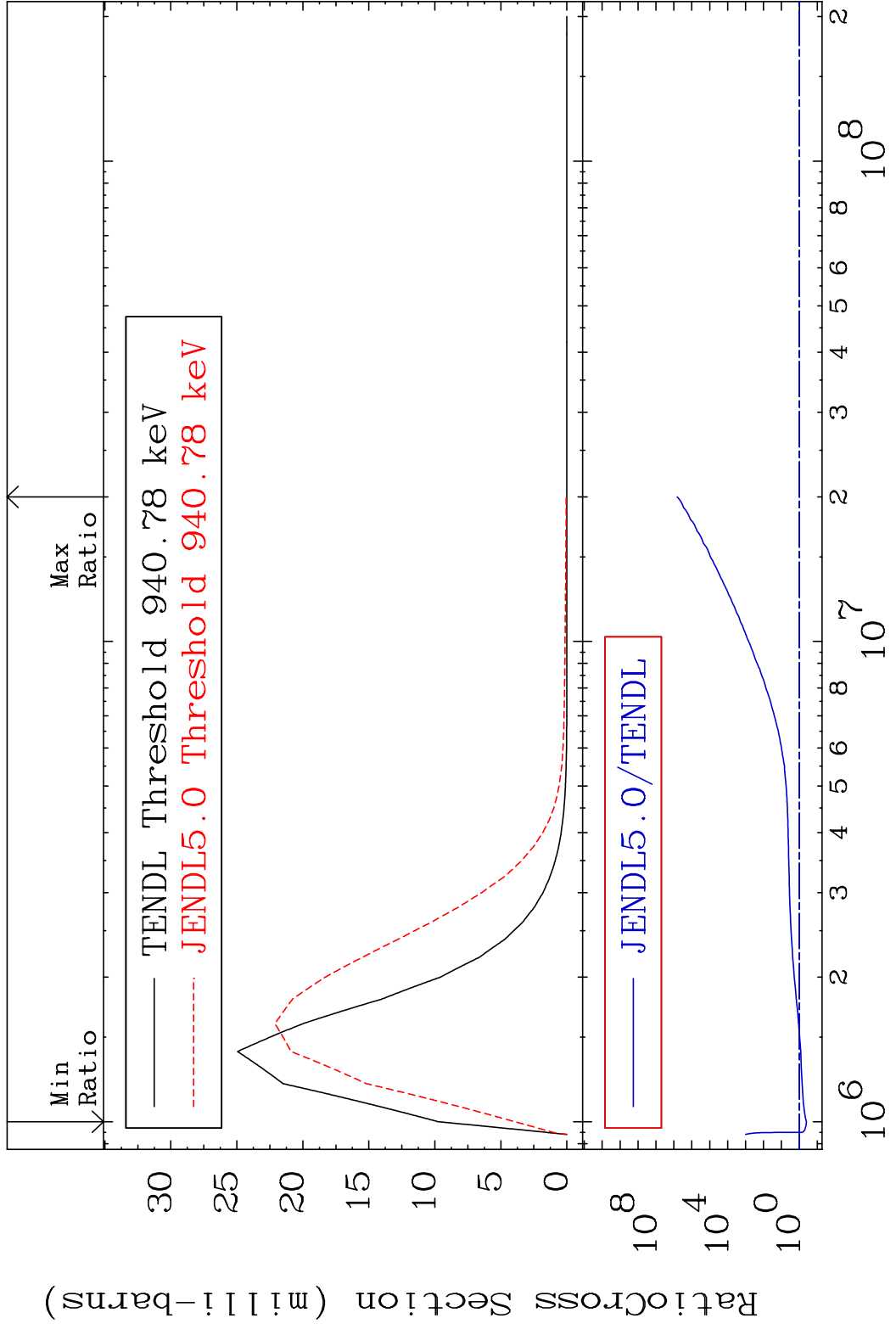


MAT 7034 MT= 77 (n, n') Level 70-Yb-171
 Cross Section -38.78 To 9999. %



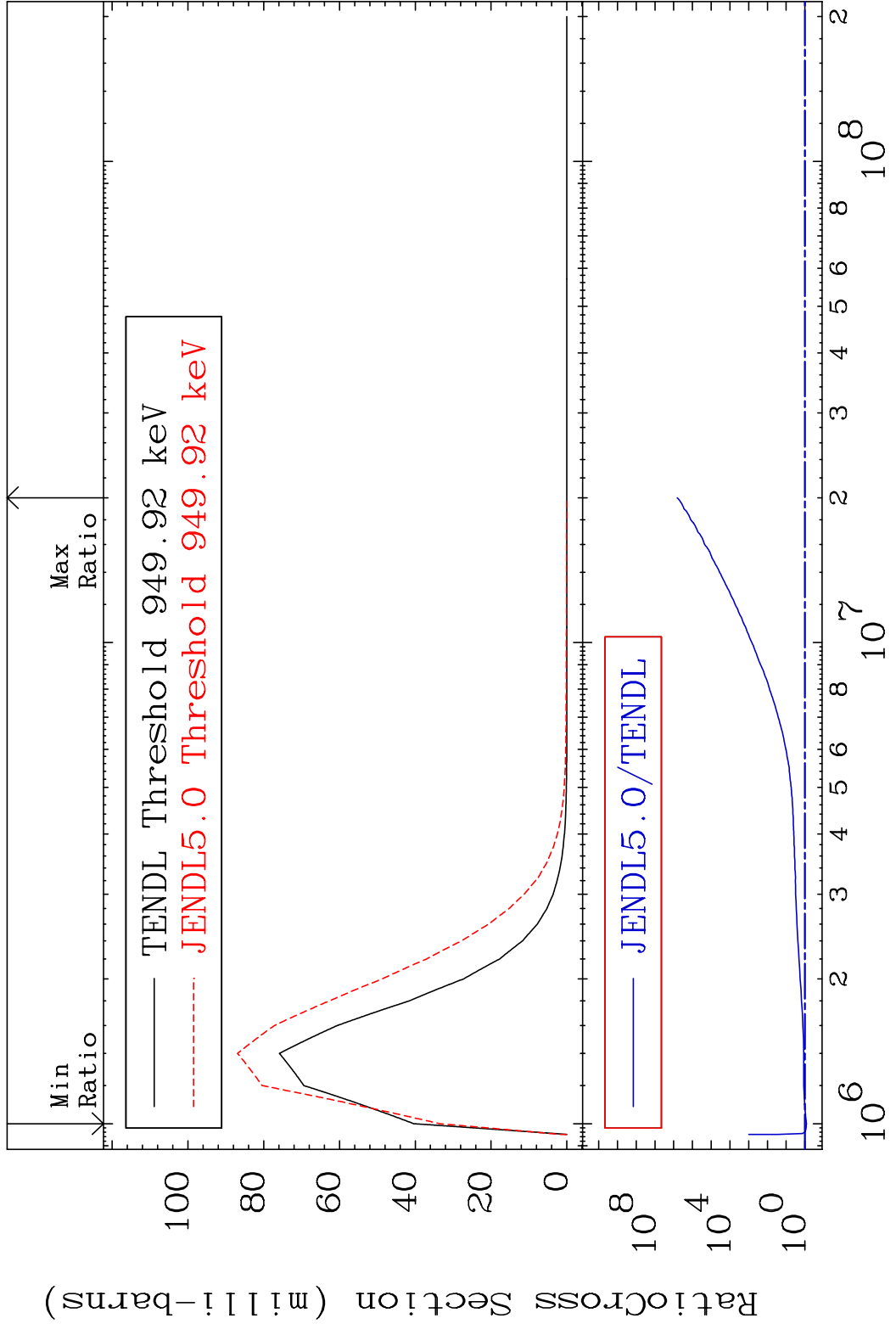
35 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 78 (n, n') Level 70-Yb-171
 Cross Section -59.50 To 9999. %



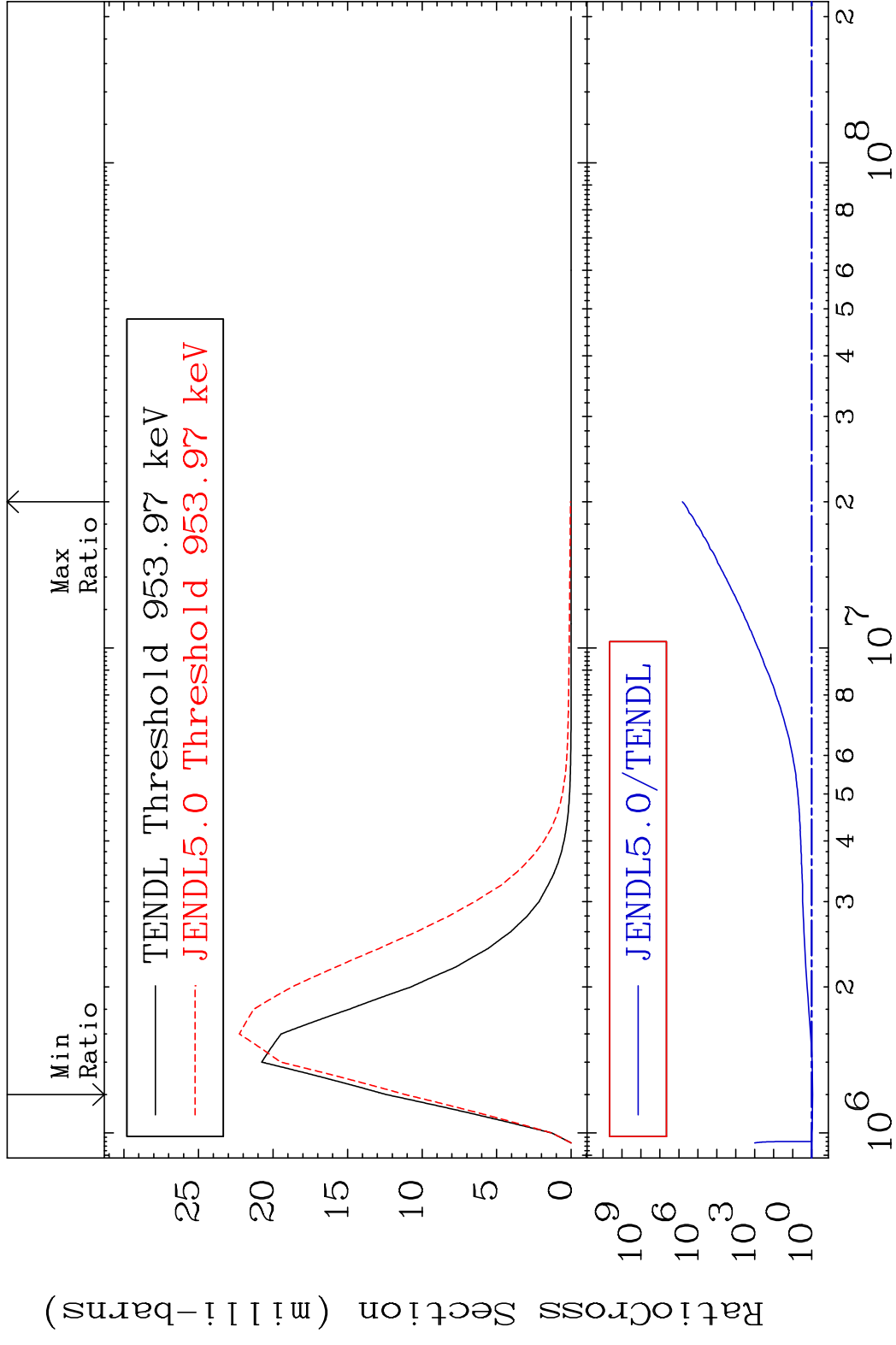
36 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 79 (n, n') Level 70-Yb-171
 Cross Section -16.82 To 9999. %



37 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 80 (n, n') Level 70-Yb-171
 Cross Section -10.26 To 9999. %

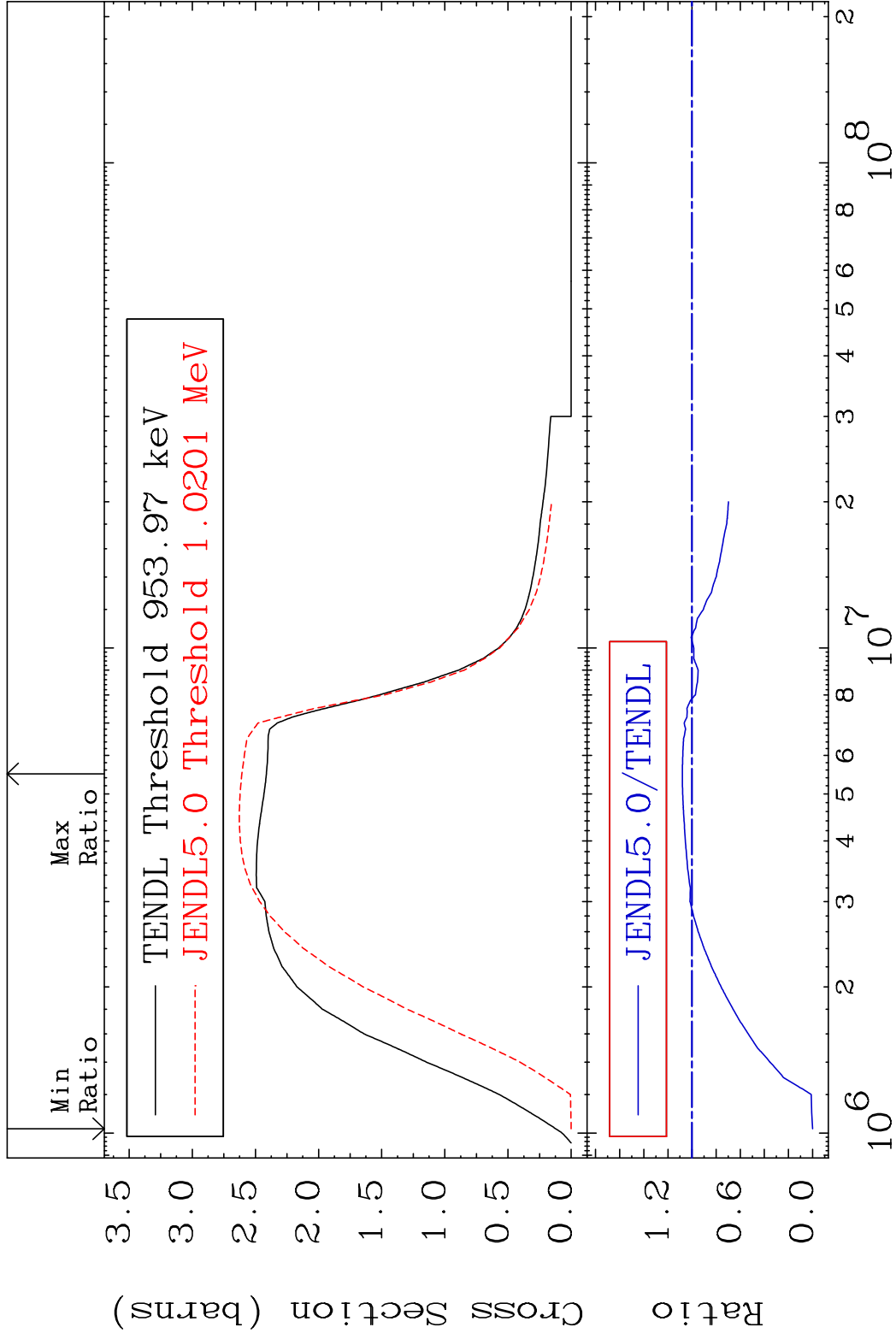


MAT 7034

(n, n') Continuum

70-Yb-171

Cross Section -100.0 To 8.024 %



39

Incident Energy (eV)

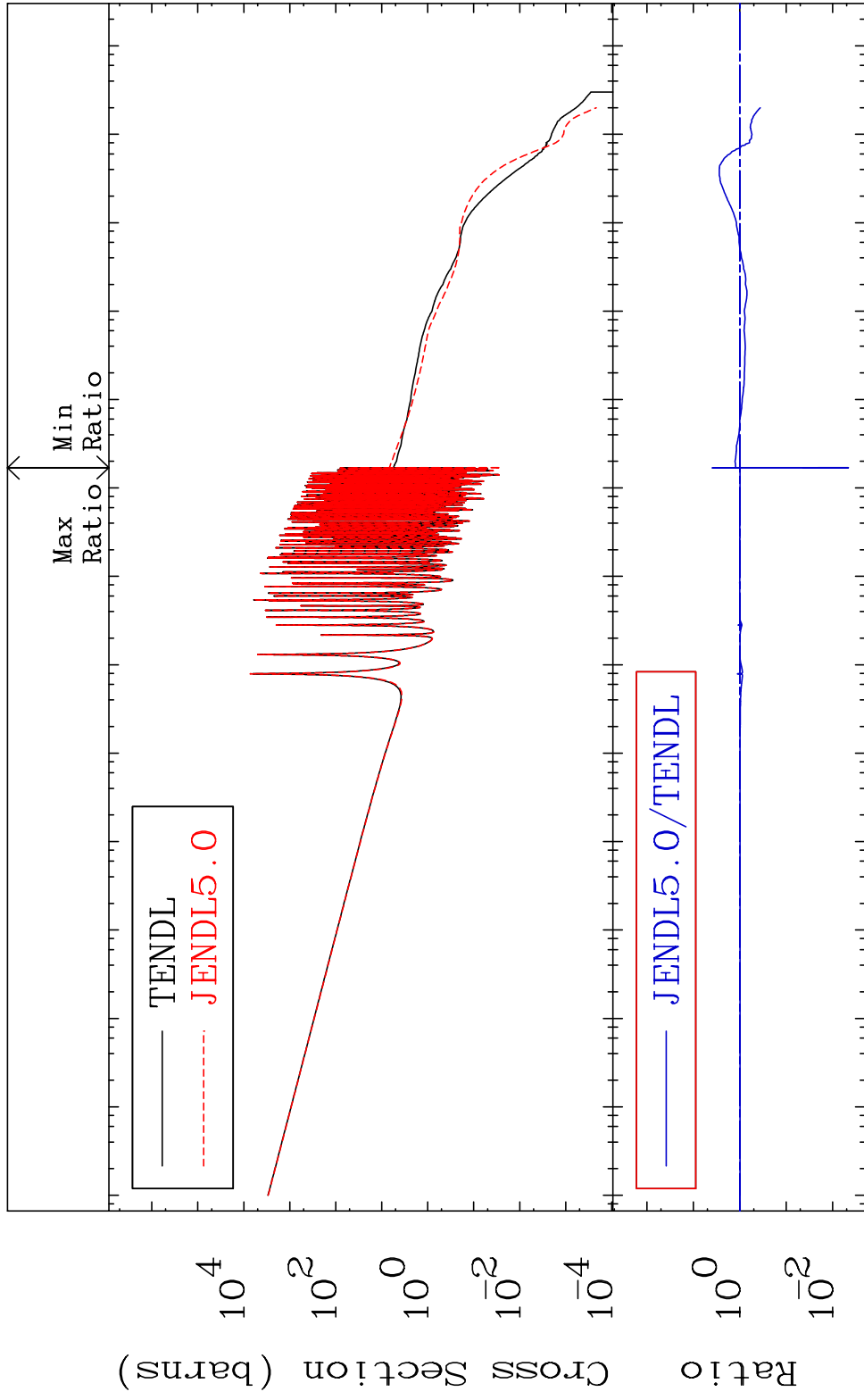
70-Yb-171

MAT 7034

(n, γ)

70-Yb-171

Cross Section -99.54 To 289.5 %



40

Incident Energy (eV)

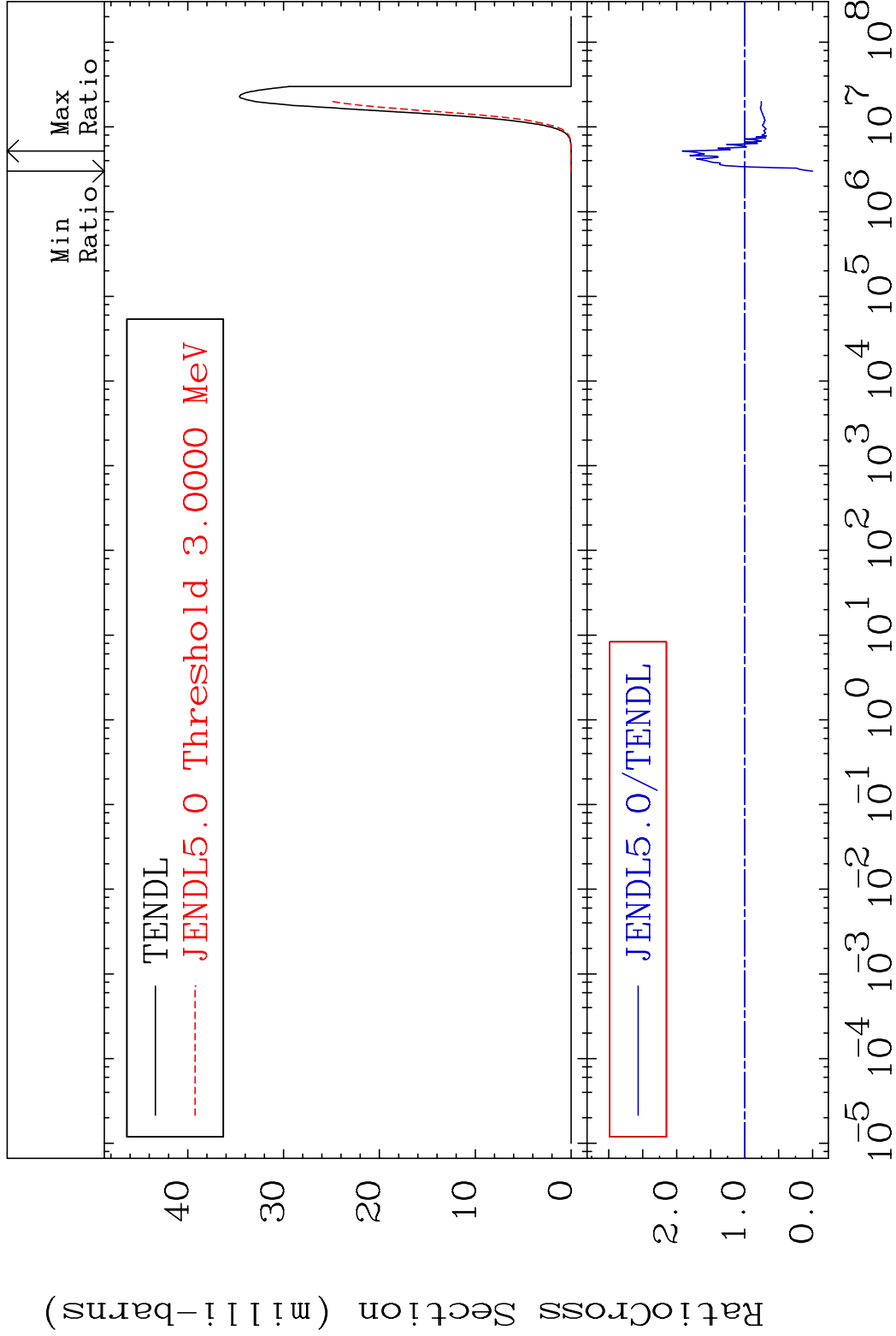
70-Yb-171

MAT 7034

(n, p)

70-Yb-171

Cross Section -100.0 To 91.62 %

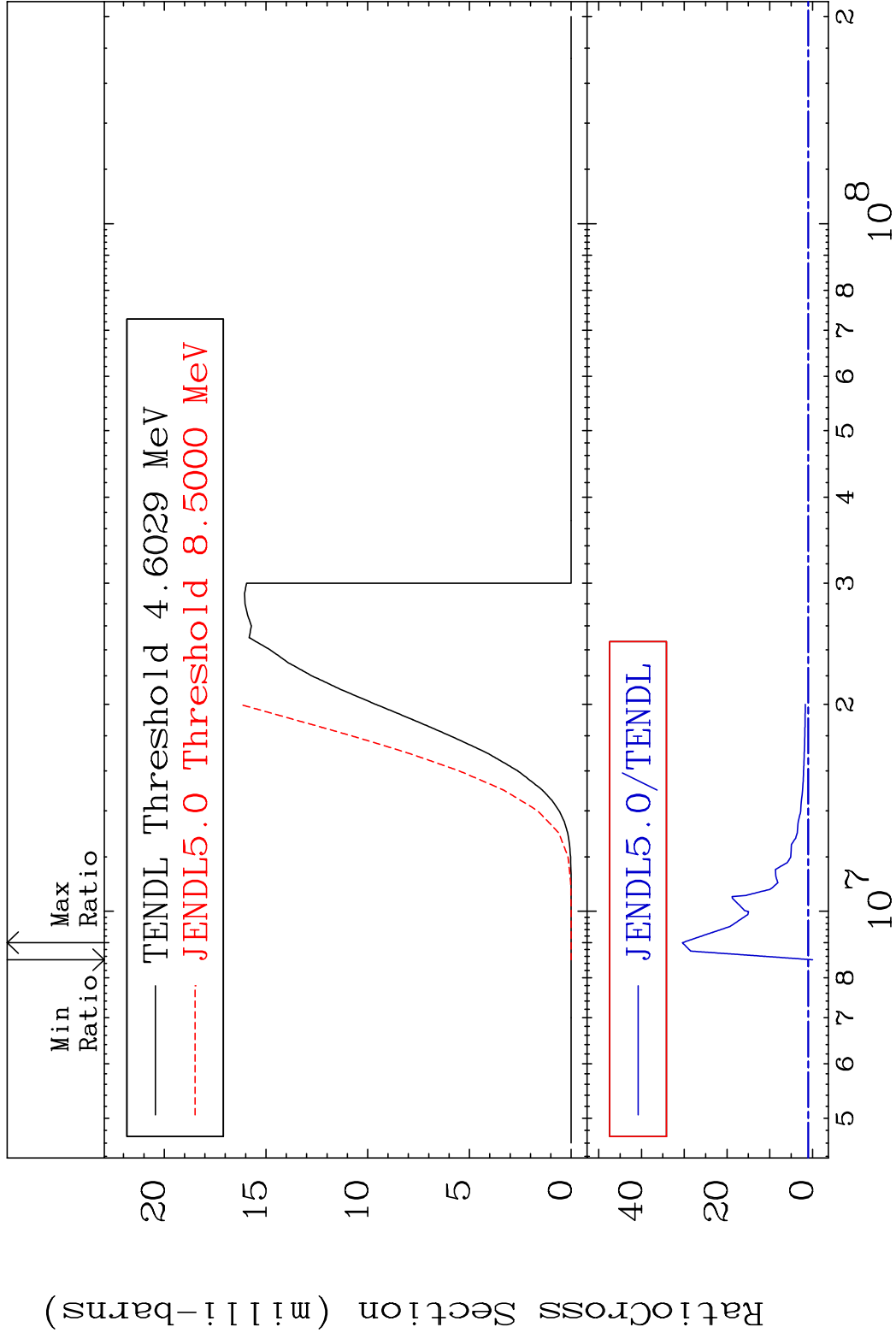


MAT 7034

(n,d)

70-Yb-171

Cross Section -100.0 To 2944. %



42

Incident Energy (eV)

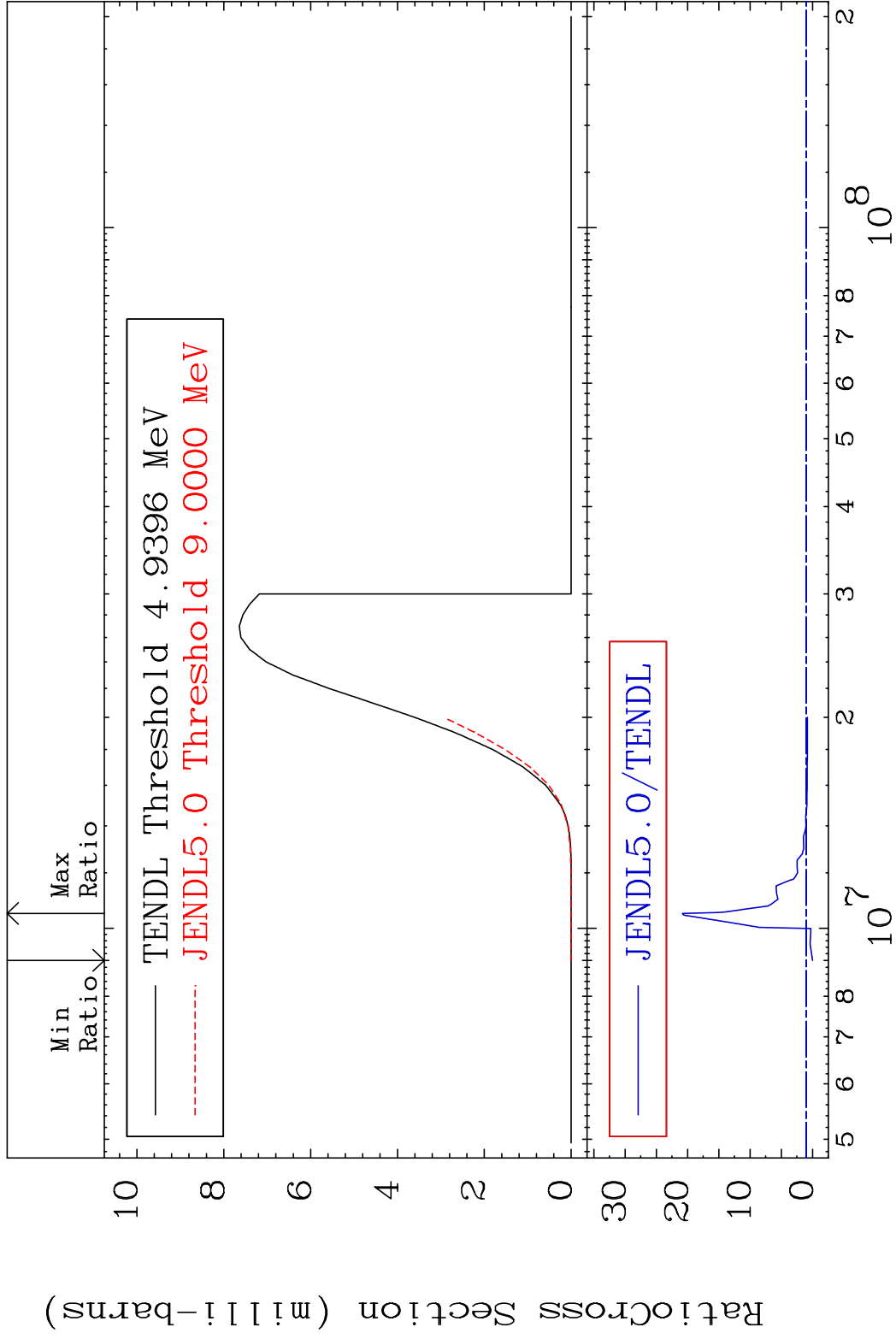
70-Yb-171

MAT 7034

(n, t)

70-Yb-171

Cross Section -100.0 To 1983. %



43

Incident Energy (eV)

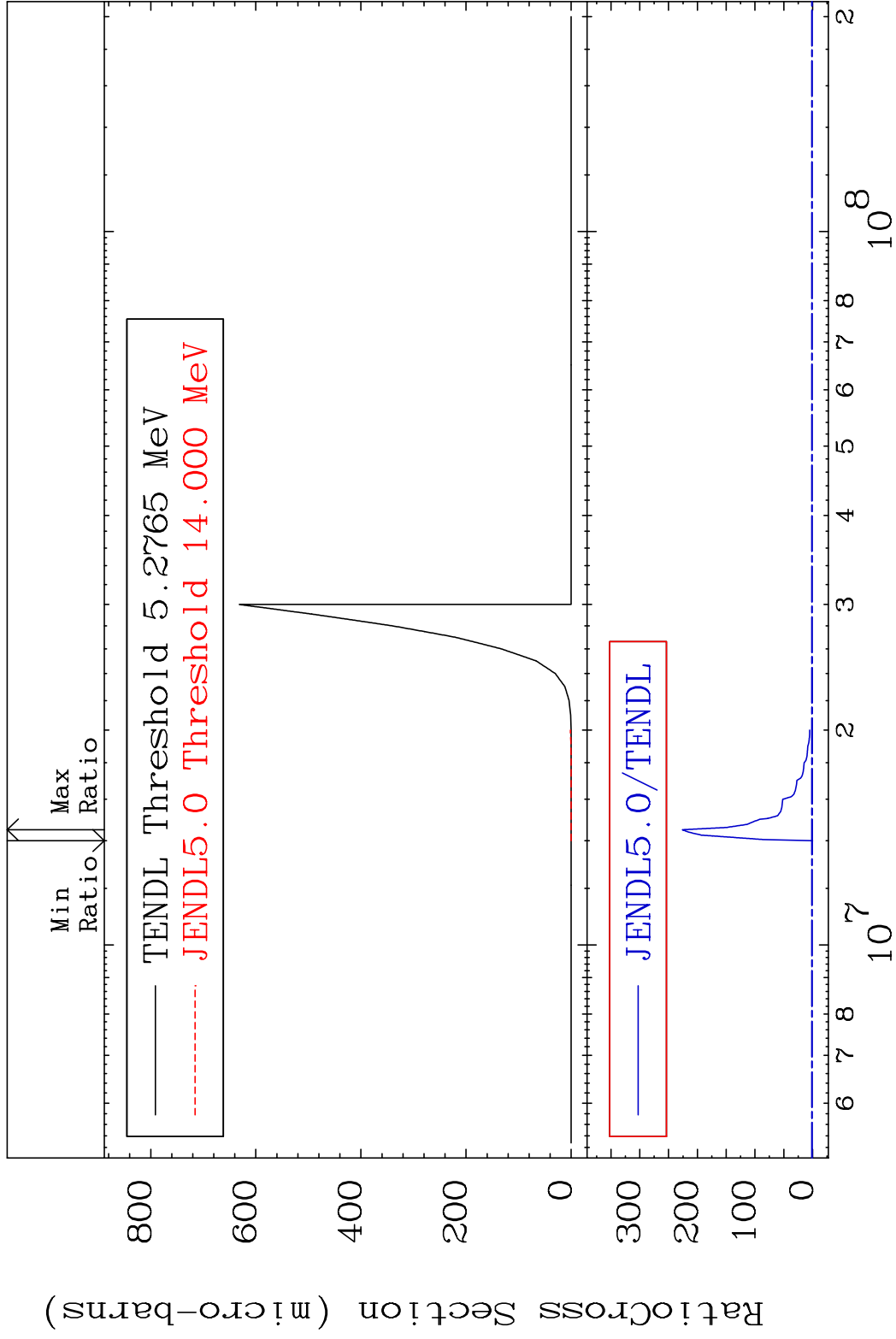
70-Yb-171

MAT 7034

(n, He-3)

70-Yb-171

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

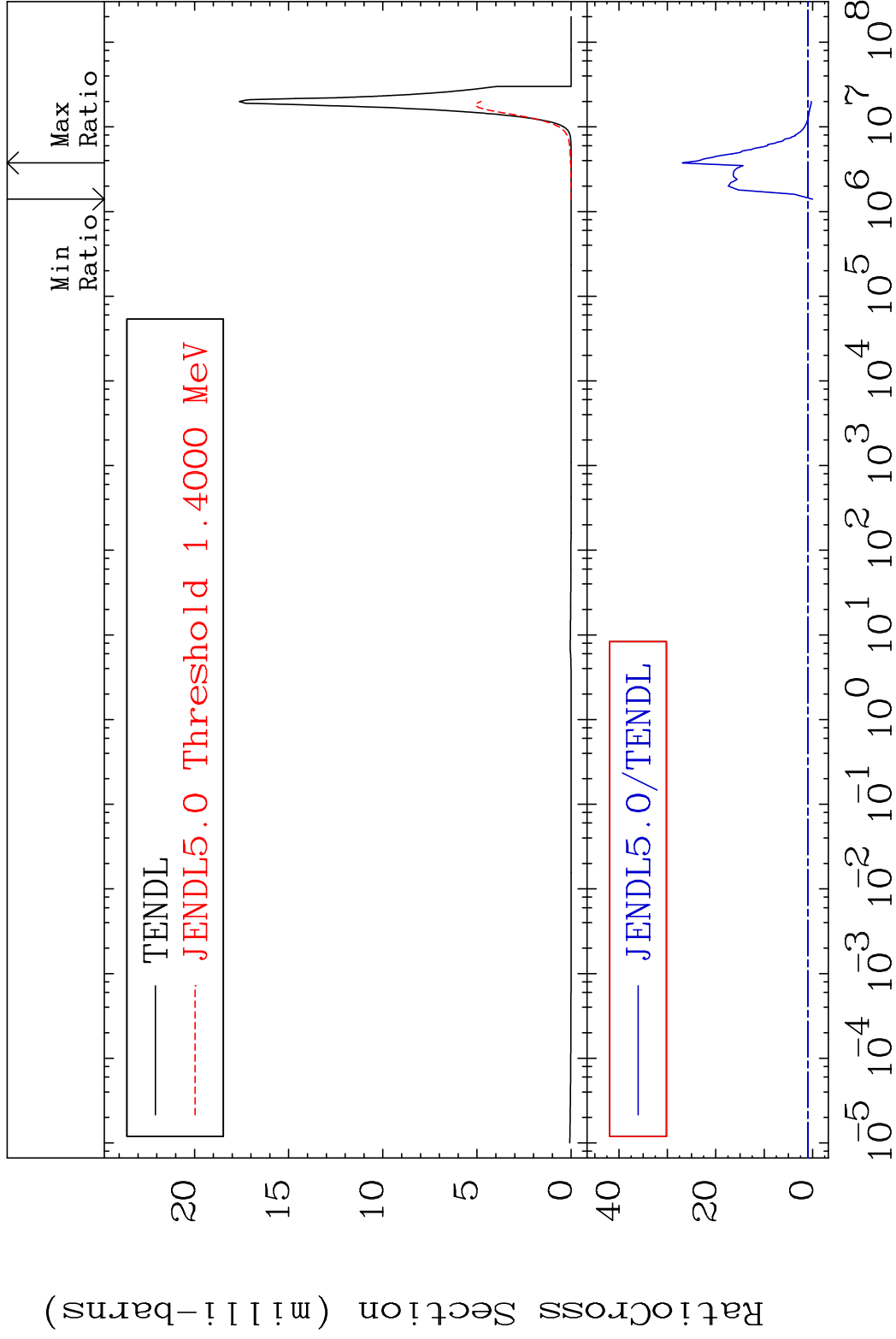
70-Yb-171

MAT 7034

(n, α)

70-Yb-171

Cross Section -100.0 To 2591. %



45

Incident Energy (eV)

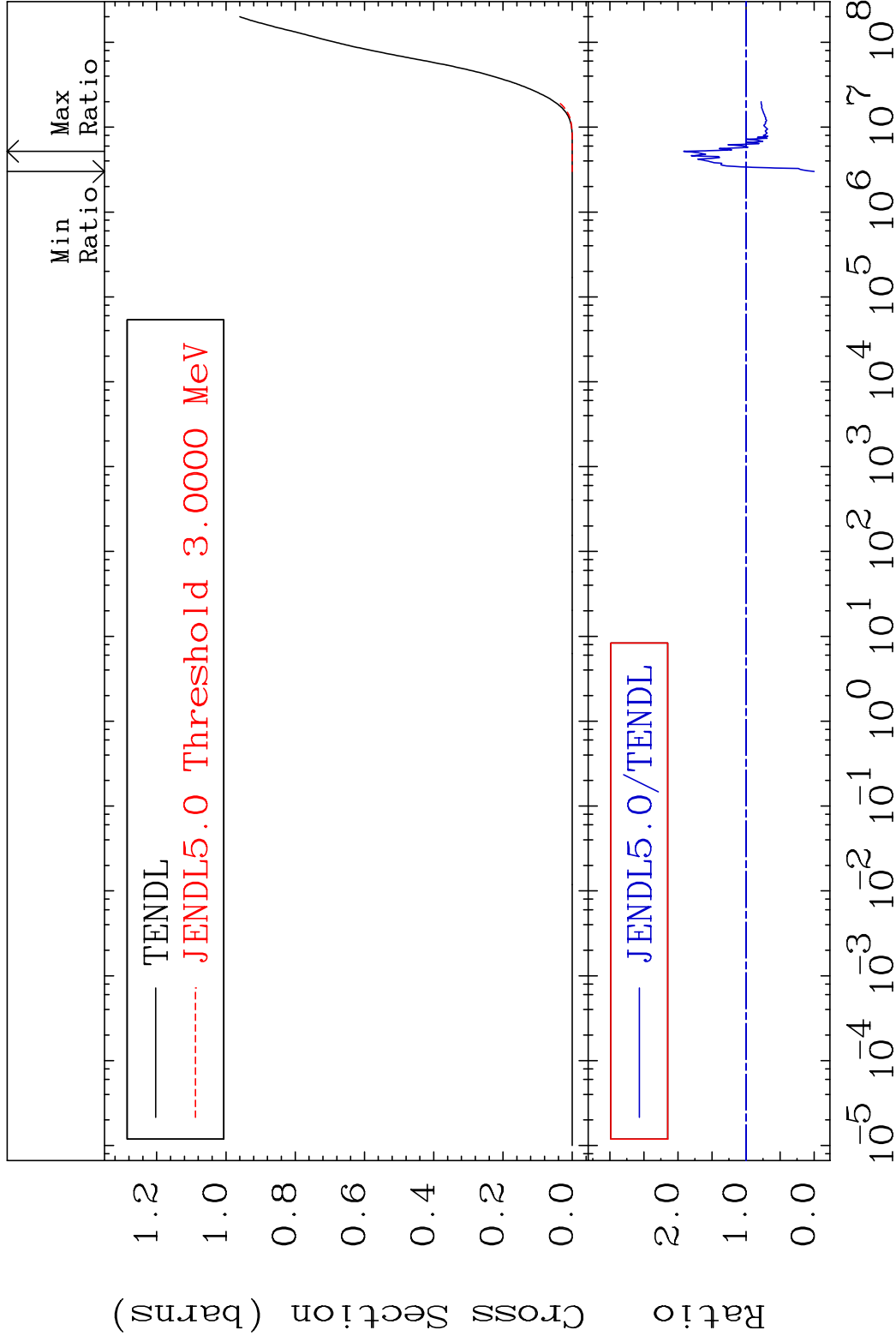
70-Yb-171

MAT 7034

Hydrogen Production

70-Yb-171

Cross Section -100.0 To 91.62 %



46

Incident Energy (eV)

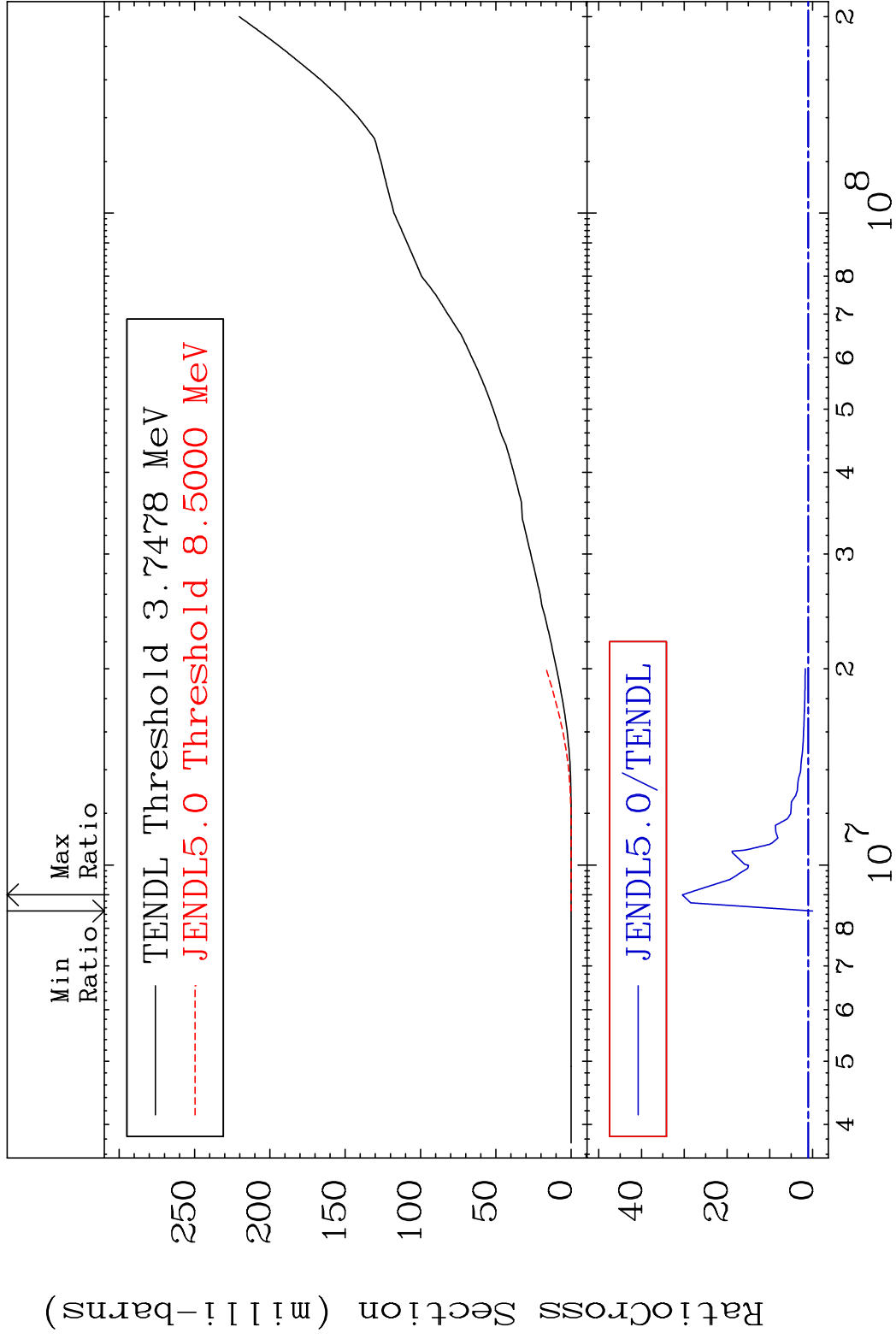
70-Yb-171

MAT 7034

Deuterium Production

70-Yb-171

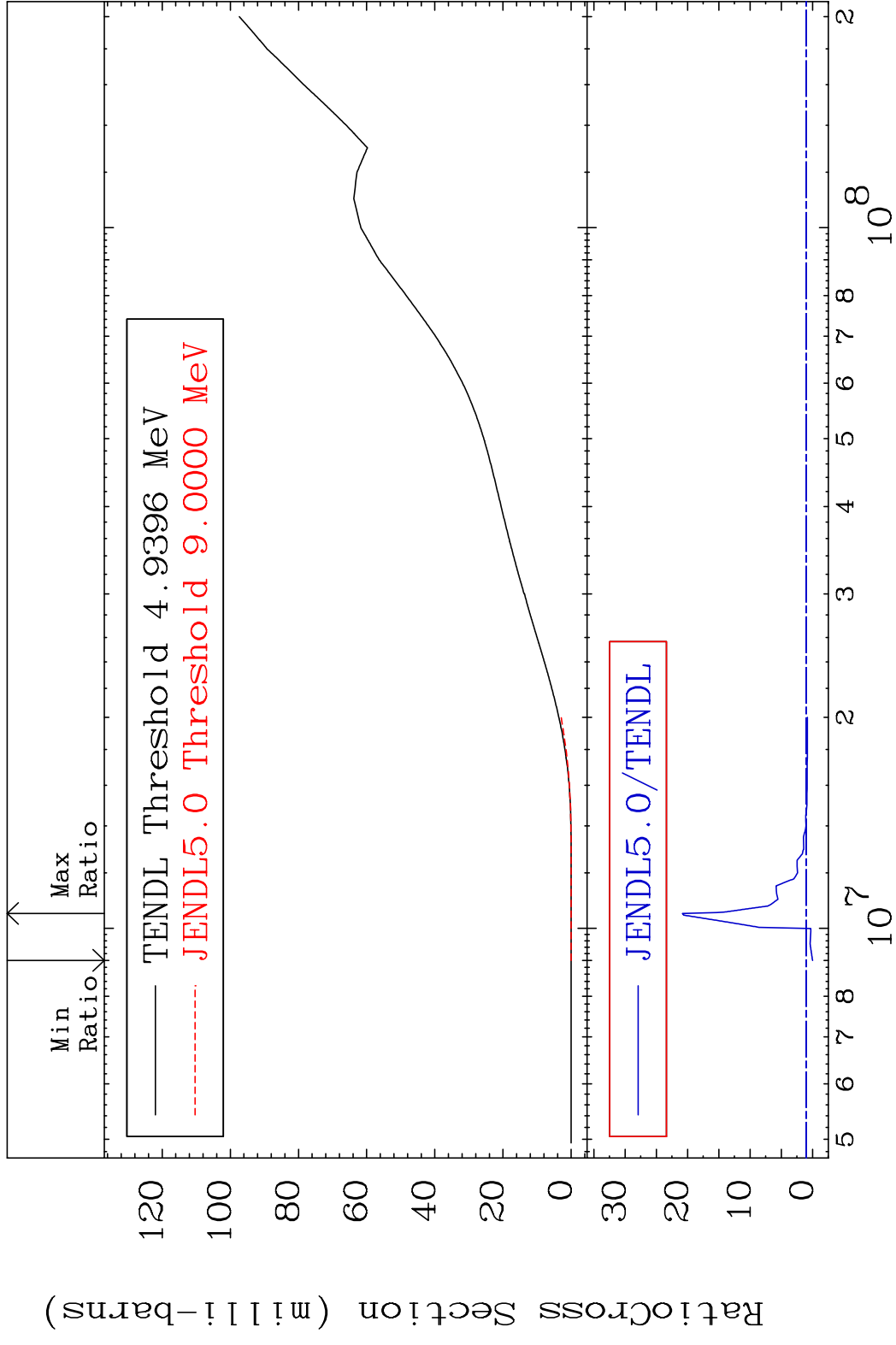
Cross Section -100.0 To 2944. %



47

Incident Energy (eV)

70-Yb-171

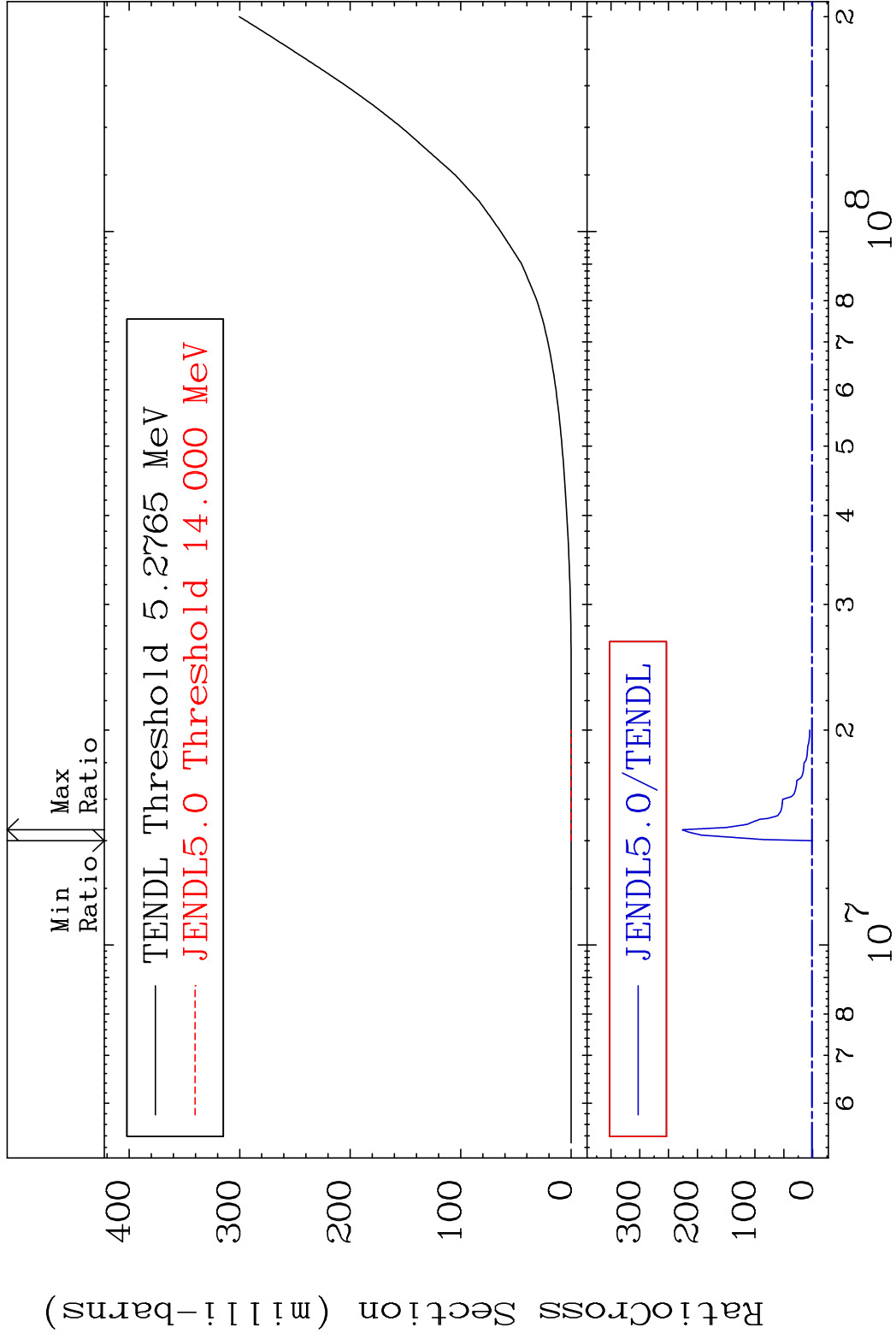


MAT 7034

He-3 Production

70-Yb-171

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

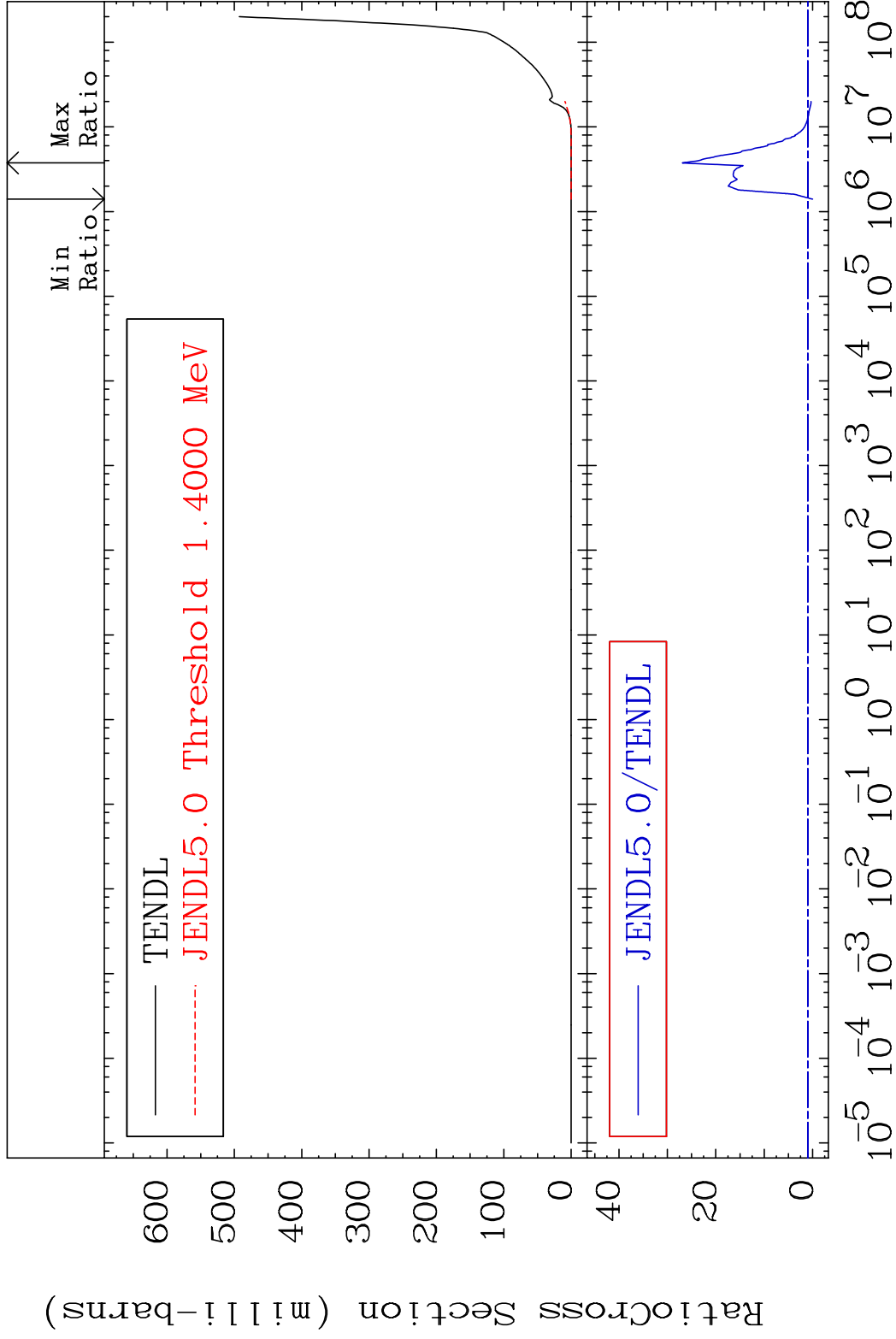
70-Yb-171

MAT 7034

He-4 Production

70-Yb-171

Cross Section -100.0 To 2591. %

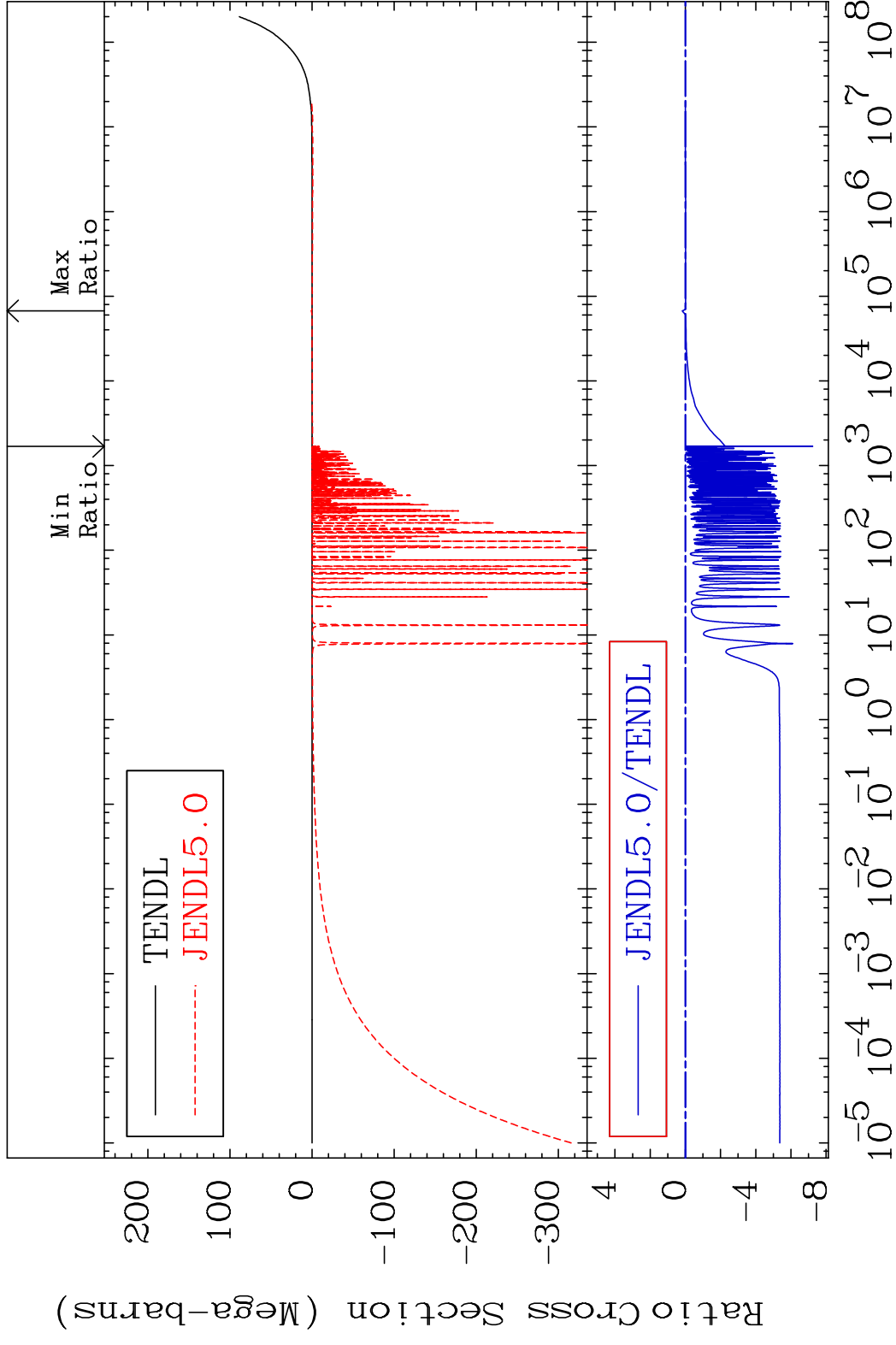


50

Incident Energy (eV)

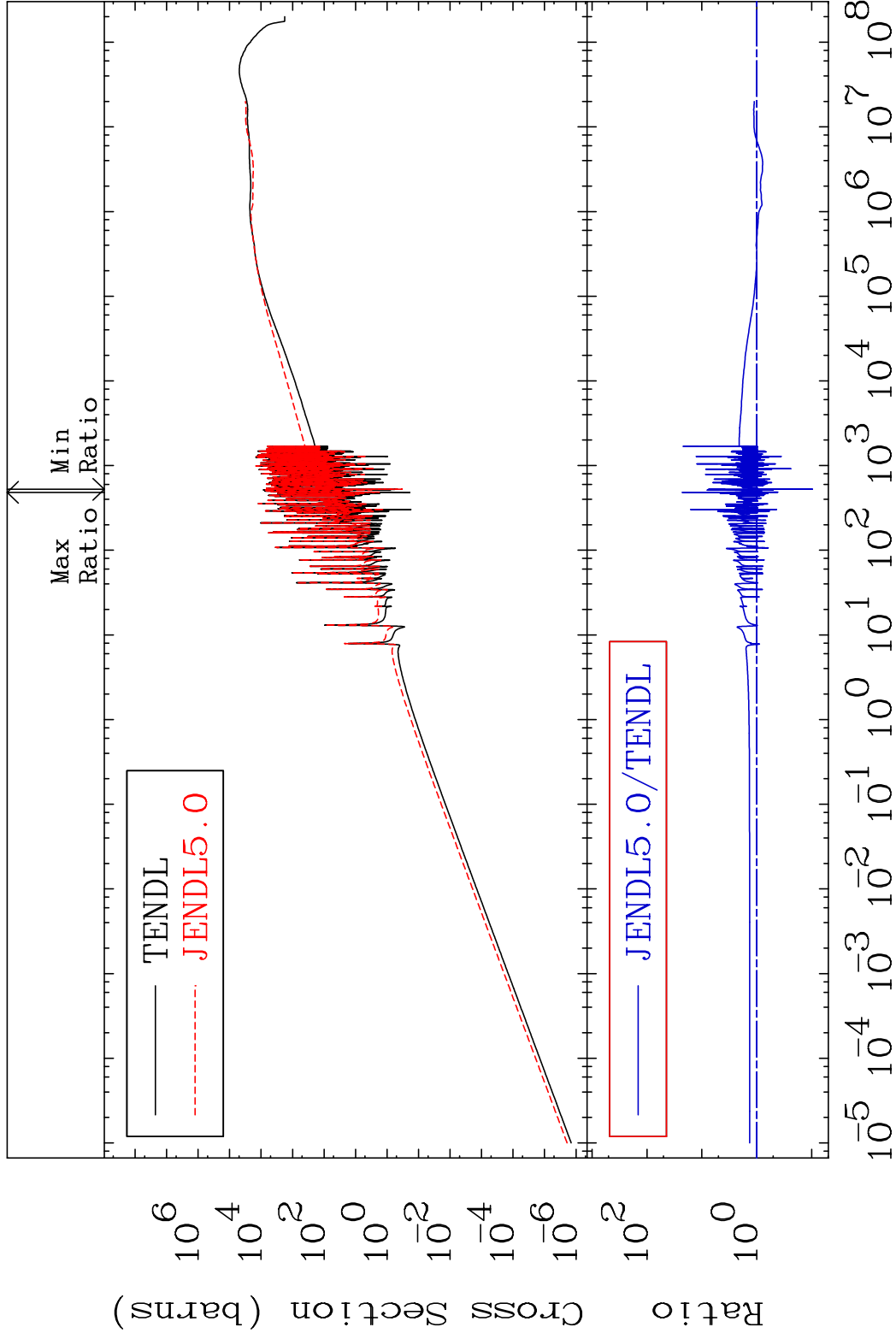
70-Yb-171

MAT 7034 Kerma total (eV-barns) 70-Yb-171
 Cross Section -9999. To 9999. %



MAT 7034

Kerma elastic Cross Section -90.38 To 2166. %
70-Yb-171

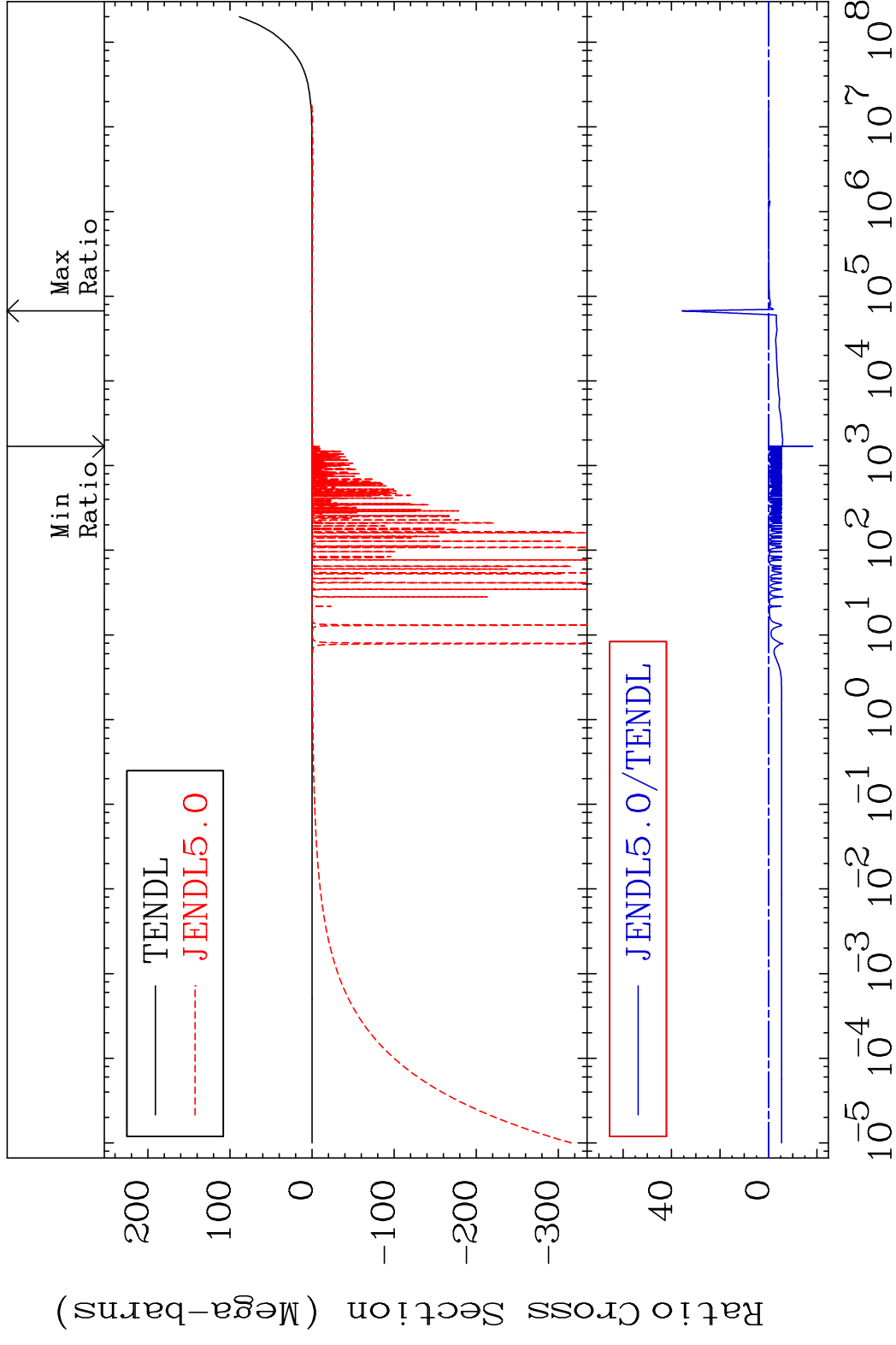


52

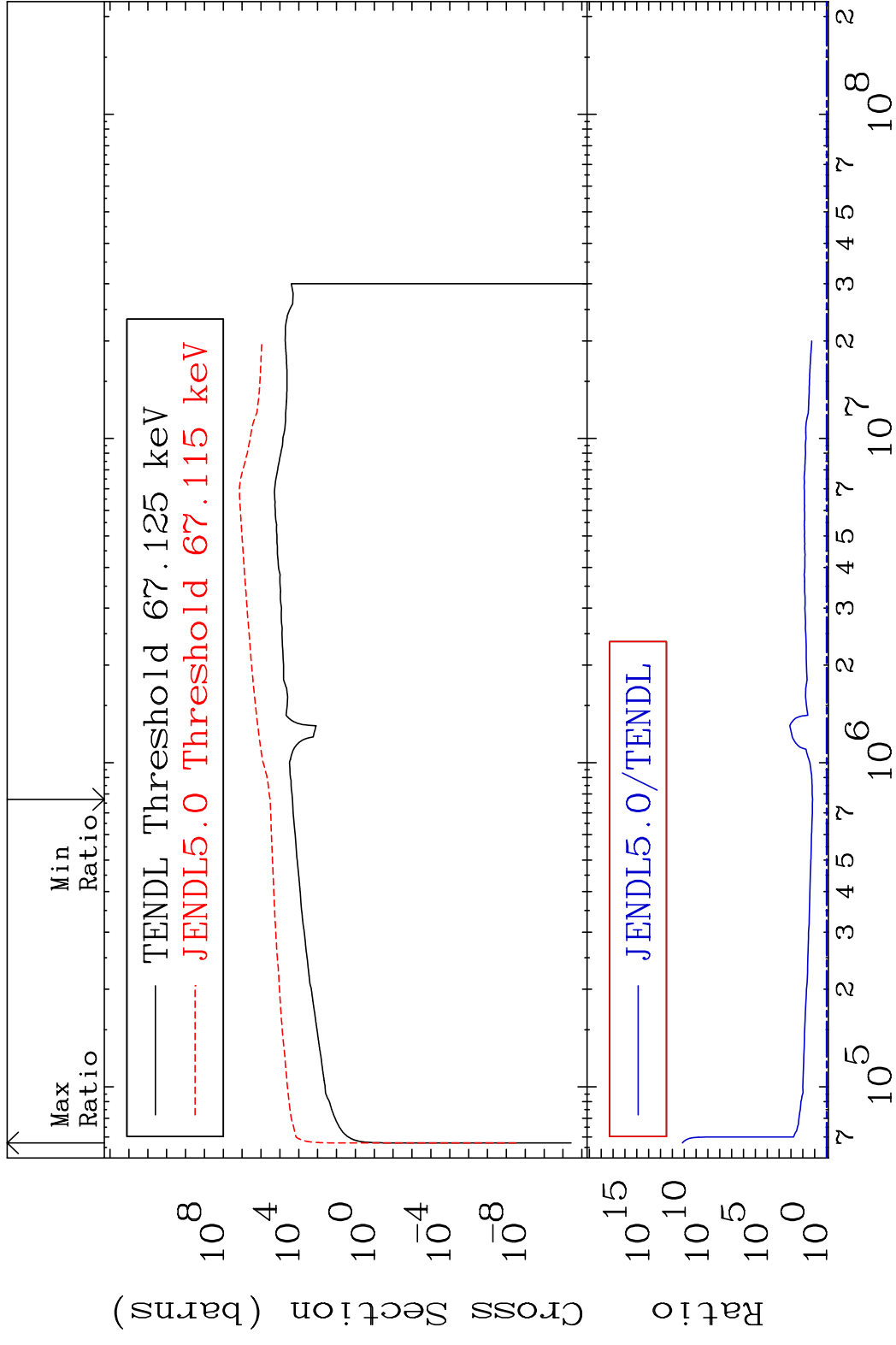
Incident Energy (eV)

70-Yb-171

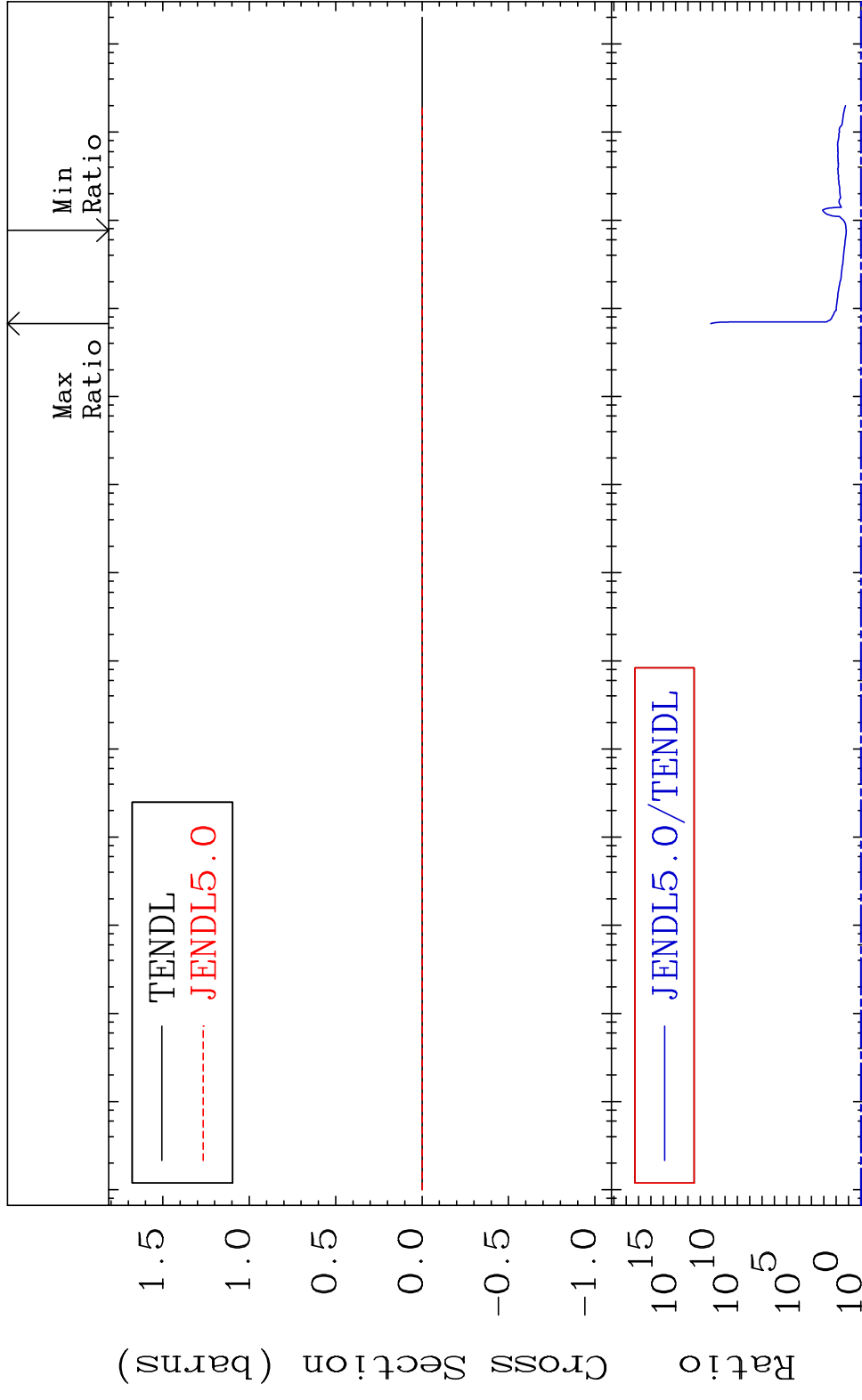
MAT 7034 Kerma non-elastic (all but mt2) 70-Yb-171
 Cross Section -9999. To 9999. %

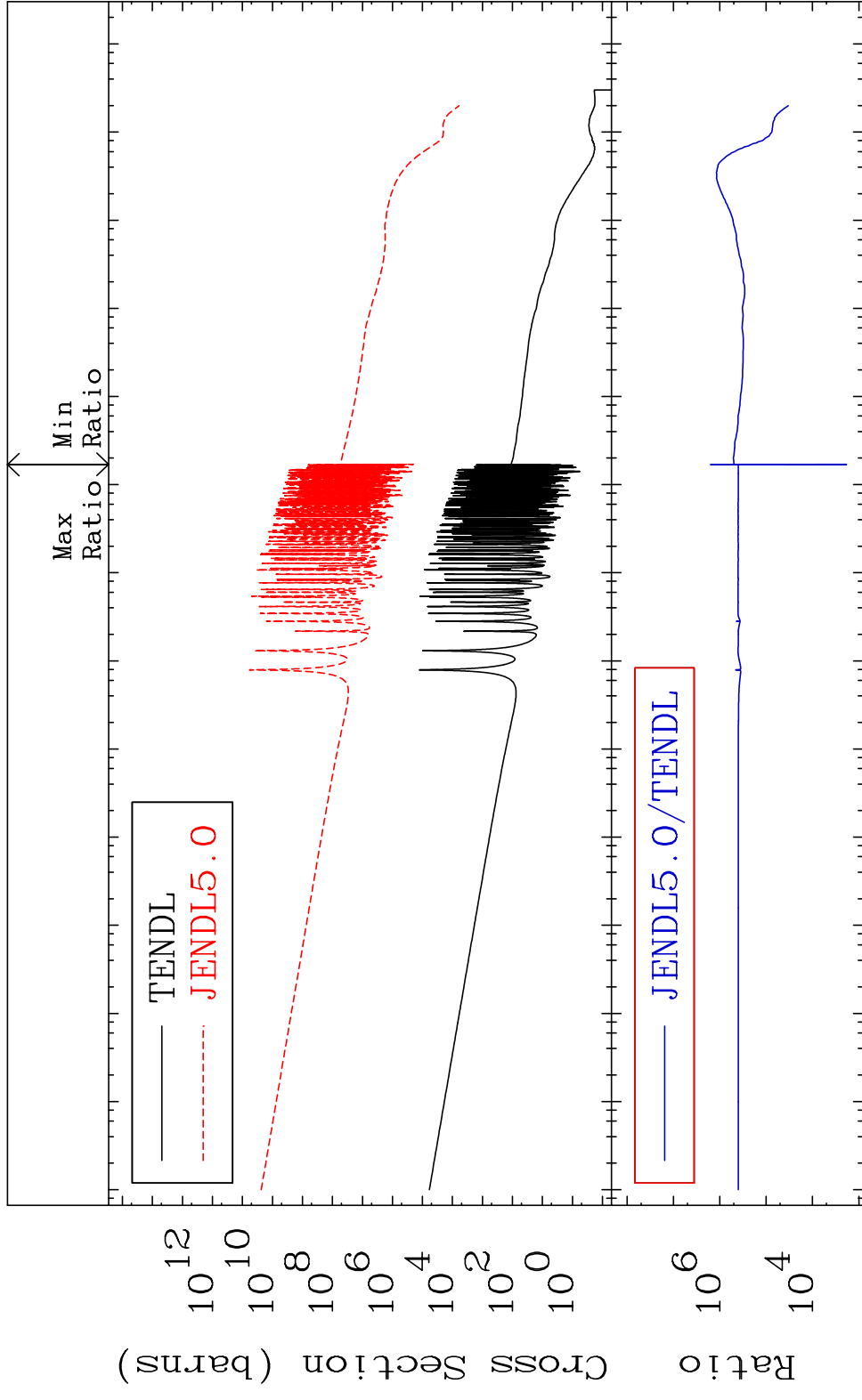


MAT 7034 Kerma inelastic (mt51-91) 70-Yb-171
 Cross Section 1389. To 9999. %



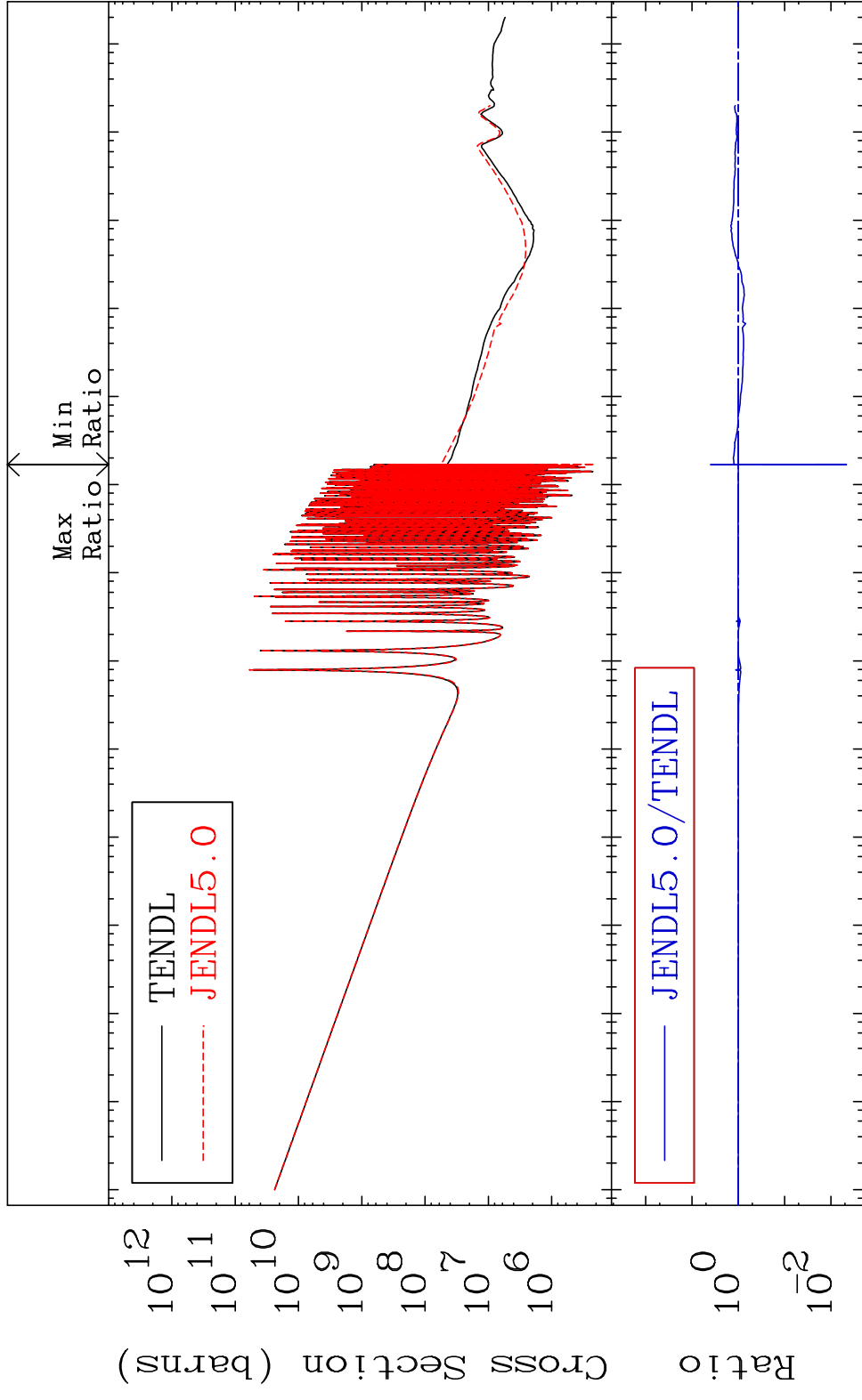
MAT 7034 Kerma fission (mt18 or mt19-20-21-38)70-Yb-171
 Cross Section 1389. To 9999. %



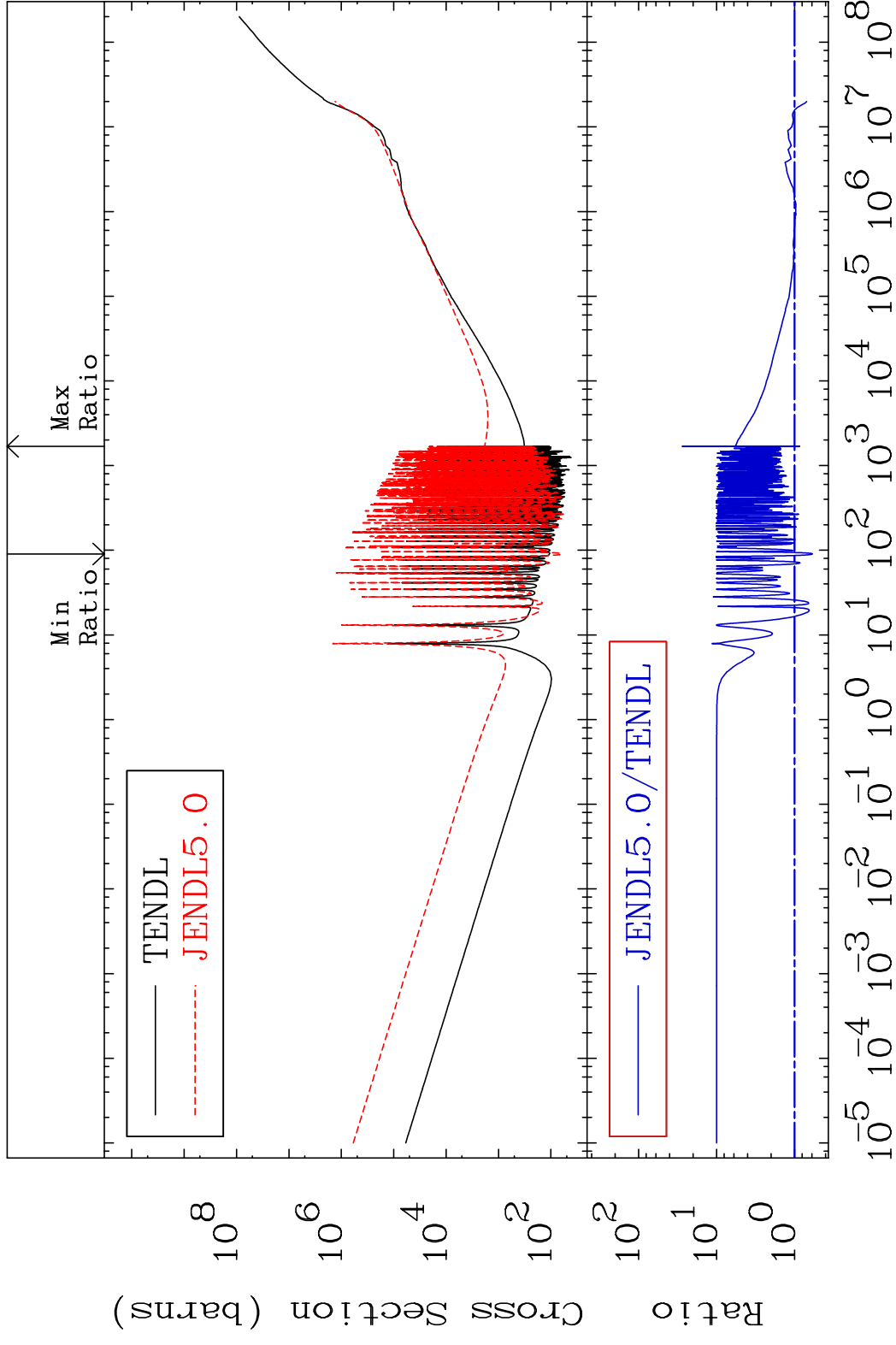


10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

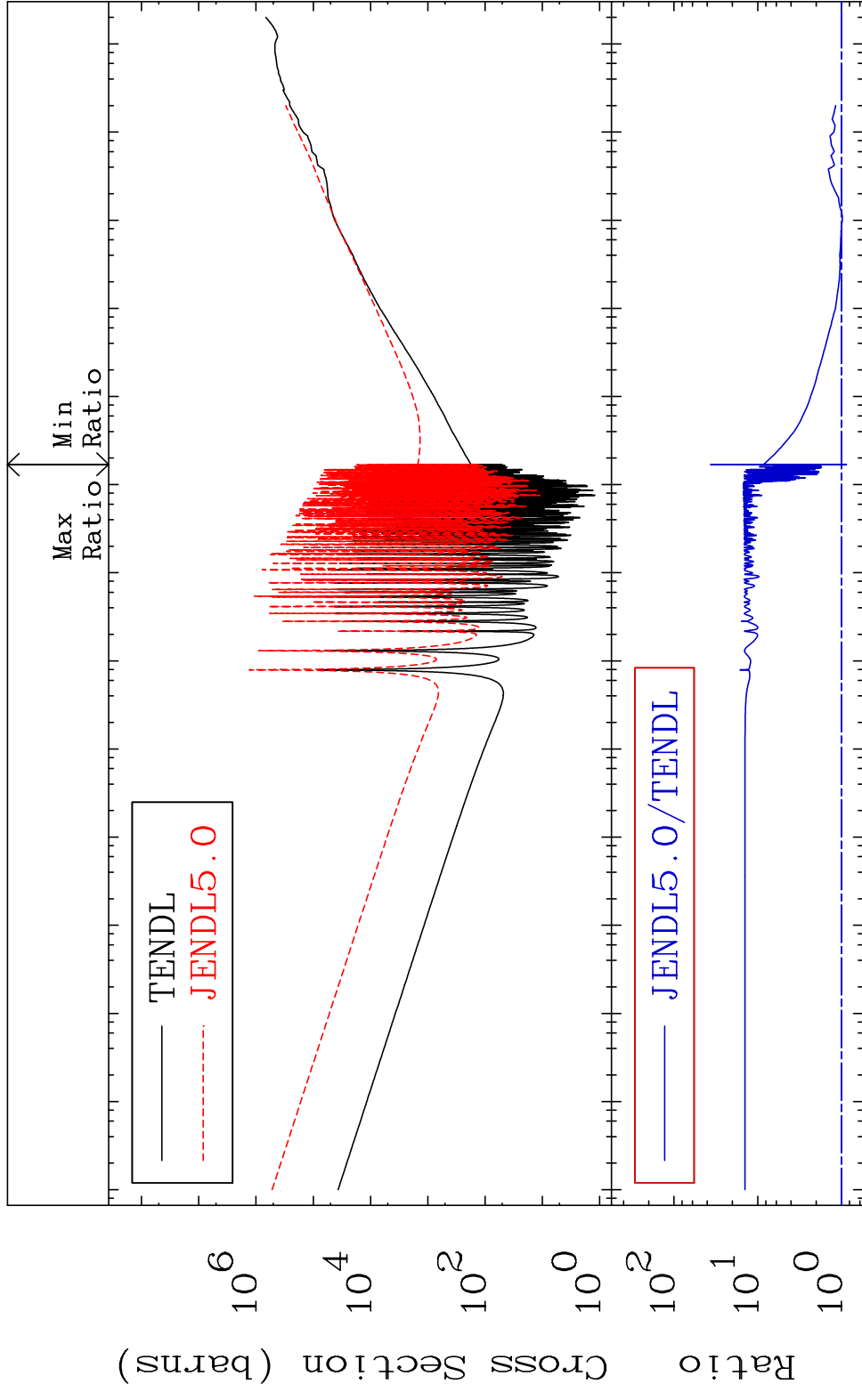
MAT 7034 Total photon (eV-barns) 70-Yb-171
 Cross Section -99.53 To 294.7 %



MAT 7034 Total kinematic kerma (high limit) 70-Yb-171
 Cross Section -41.13 To 2643. %



MAT 7034 Dpa total (eV-barns) 70-Yb-171
 Cross Section -12.63 To 3538. %

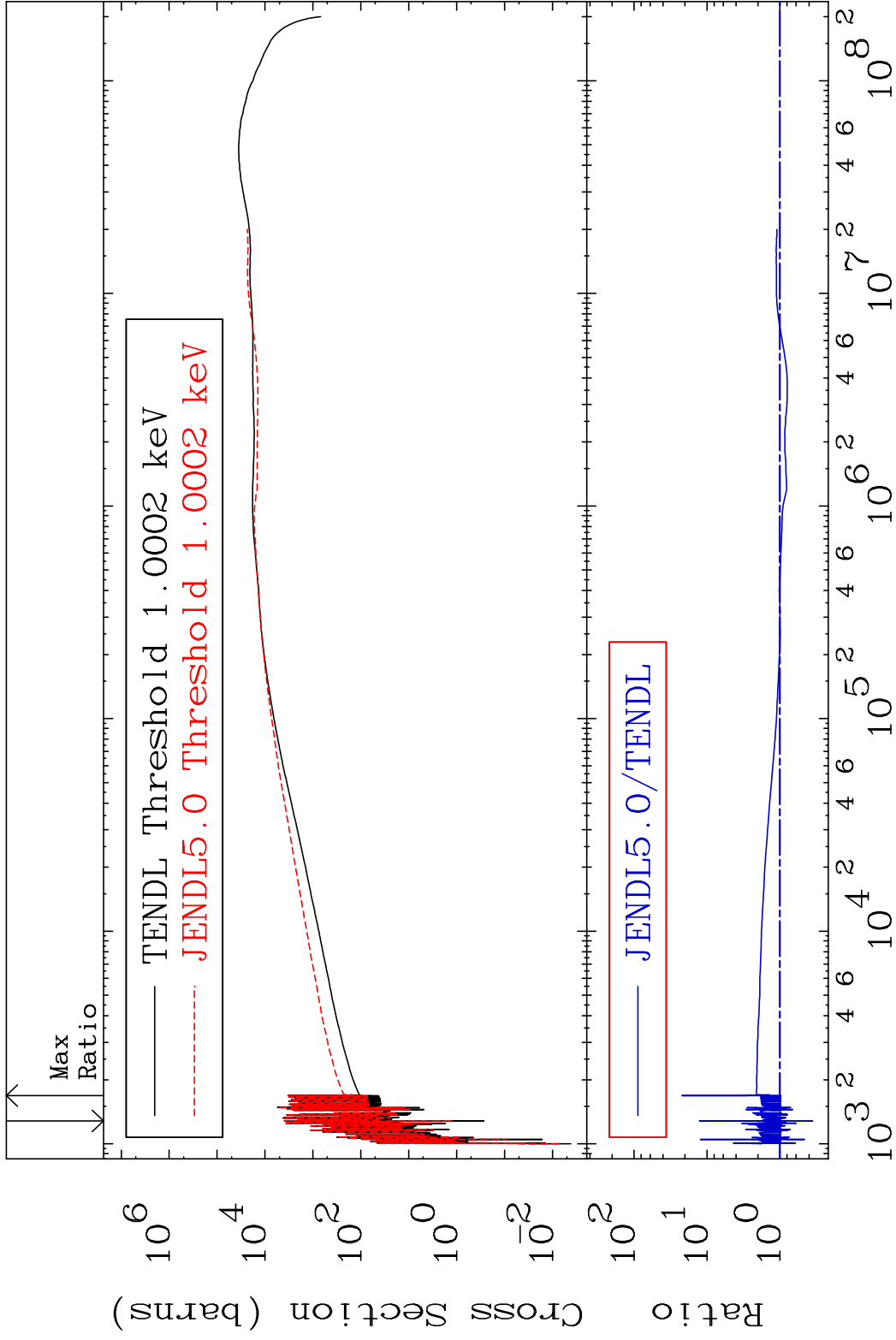


MAT 7034

Dpa elastic (mt2)

70-Yb-171

Cross Section -64.13 To 2088. %

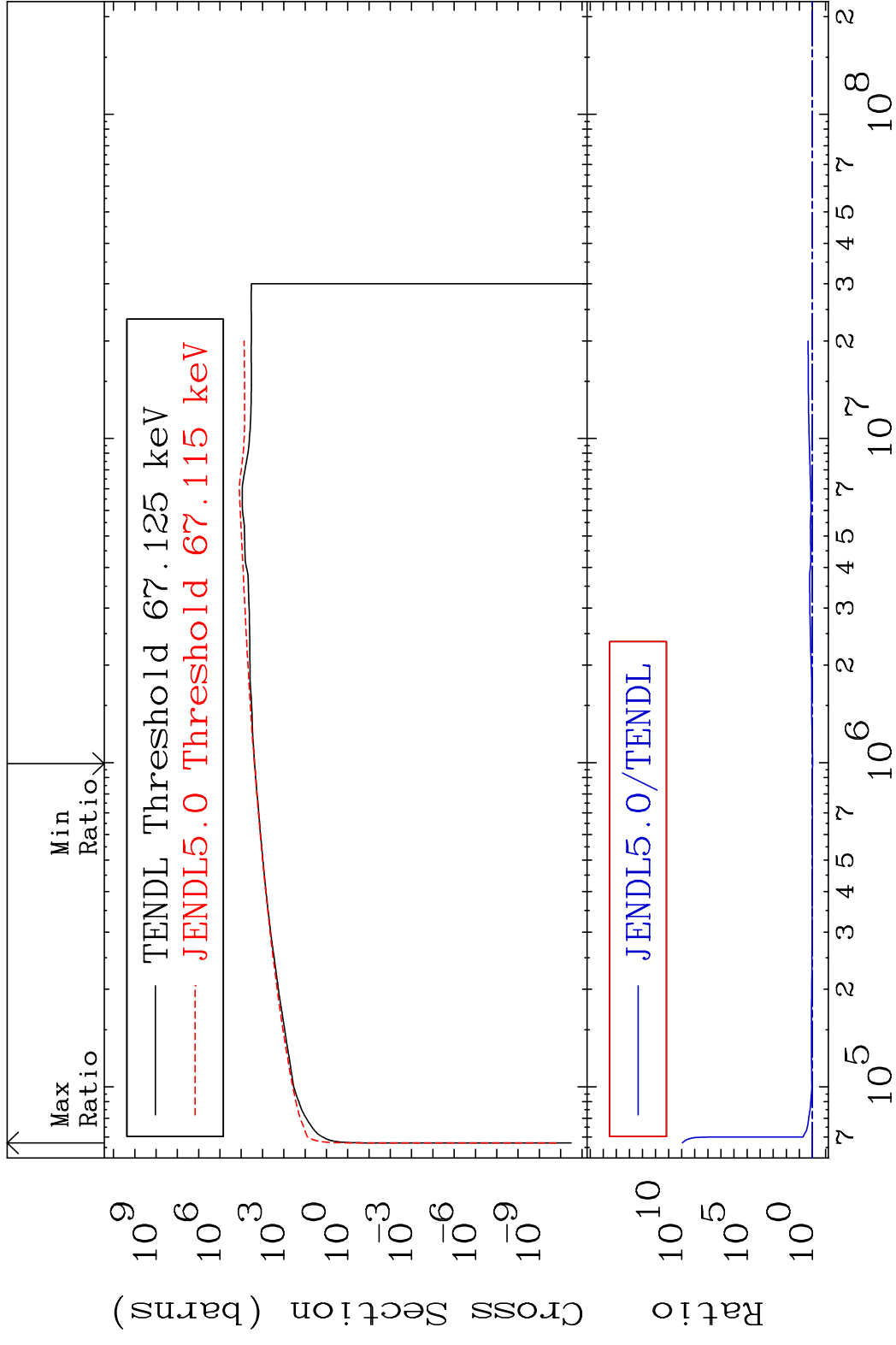


60

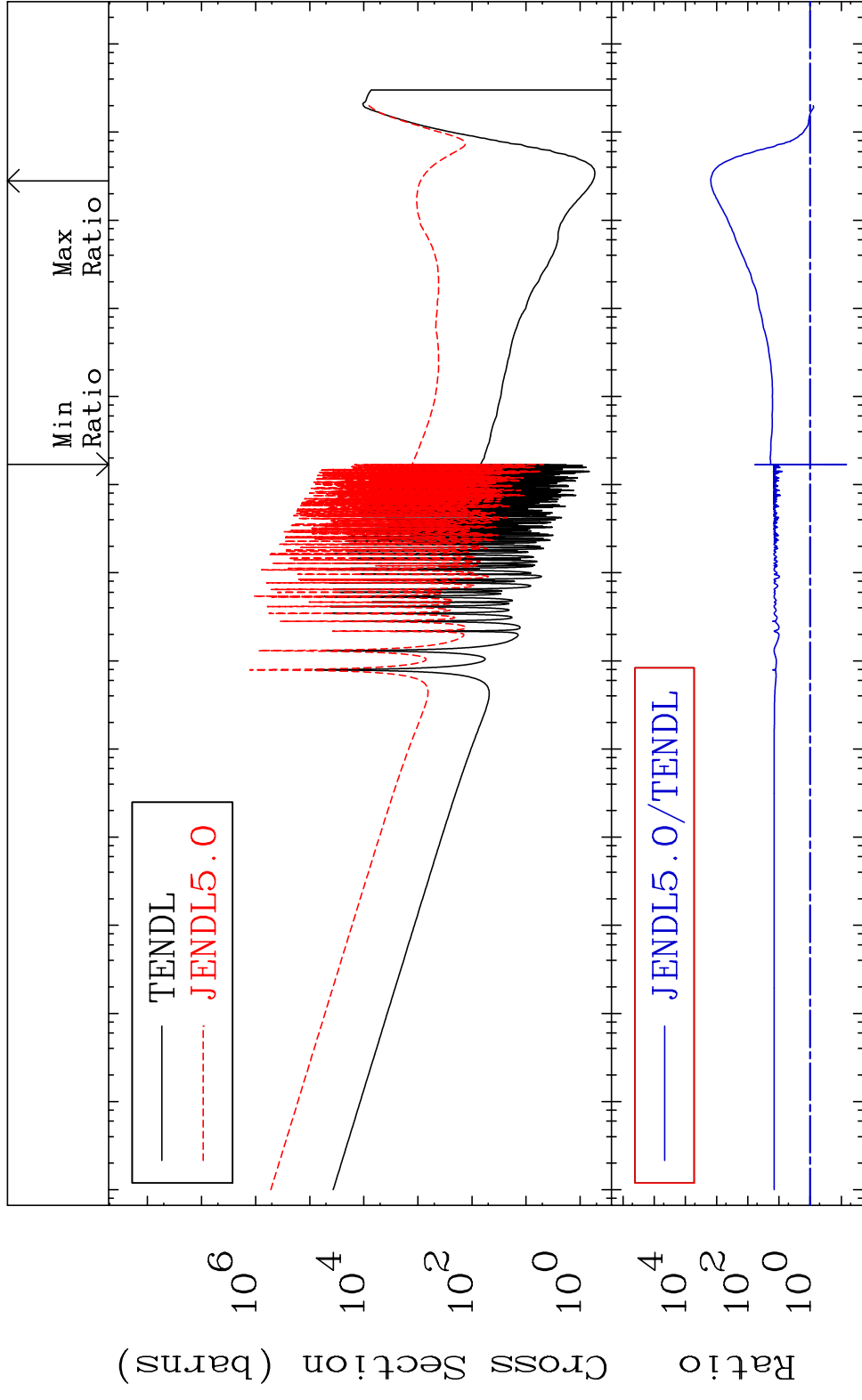
Incident Energy (eV)

70-Yb-171

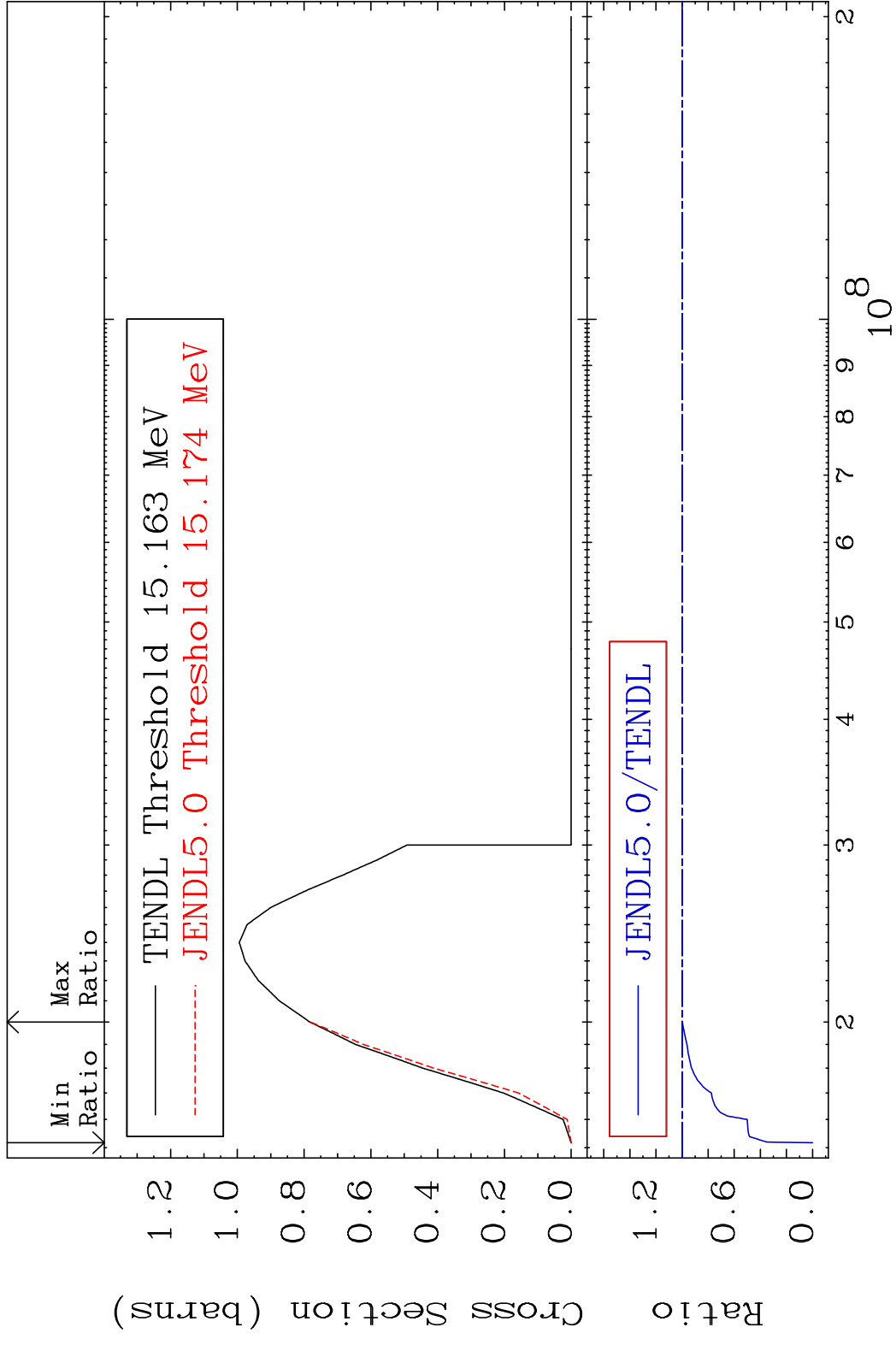
MAT 7034 Dpa inelastic (mt51-91) 70-Yb-171
 Cross Section -1.867 To 9999. %



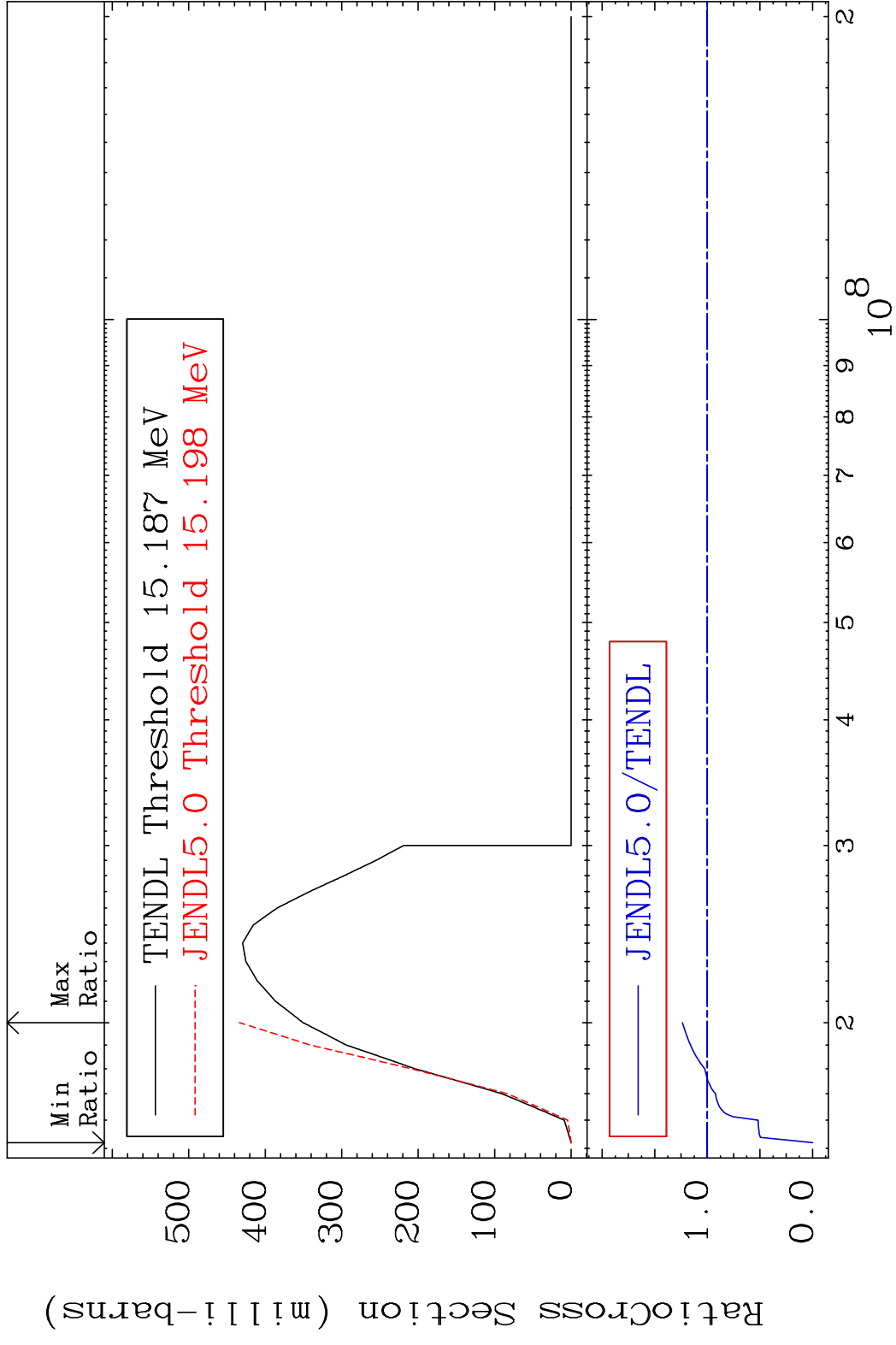
MAT 7034 Dpa disappearance (mt102 -120) 70-Yb-171
 Cross Section -93.09 To 9999. %



MAT 7034 (n,3n):70-Yb-169g 70-Yb-171
 Radionuclide Production Cross Section Ratio -0.217%



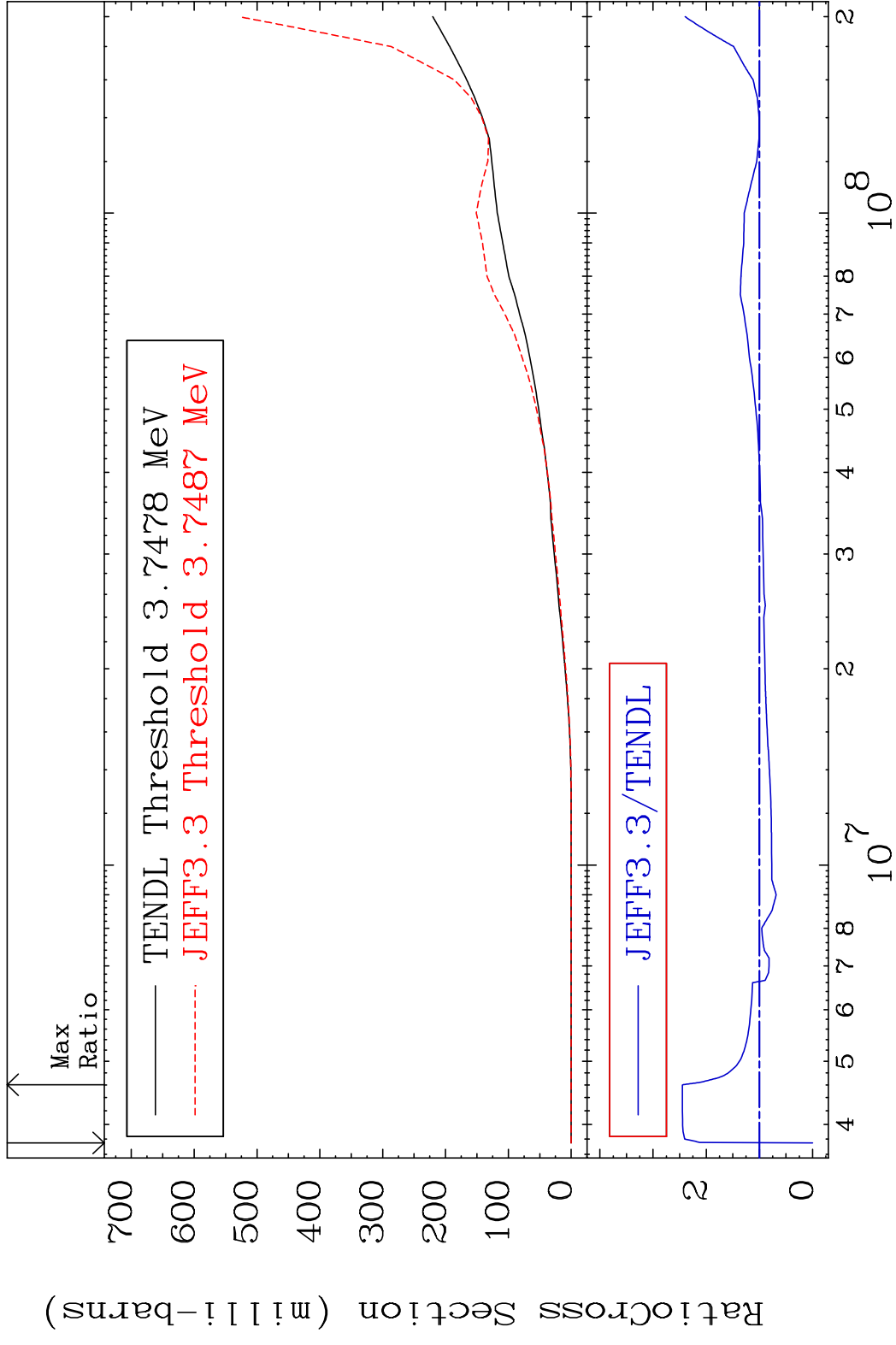
MAT 7034 (n, 3n): 70-Yb-169m1 70-Yb-171
 Radionuclide Production Cross Section Ratio 23.74 %



MAT 7034

Deuterium Production
Cross Section -100.0 To 144.9 %

70-Yb-171

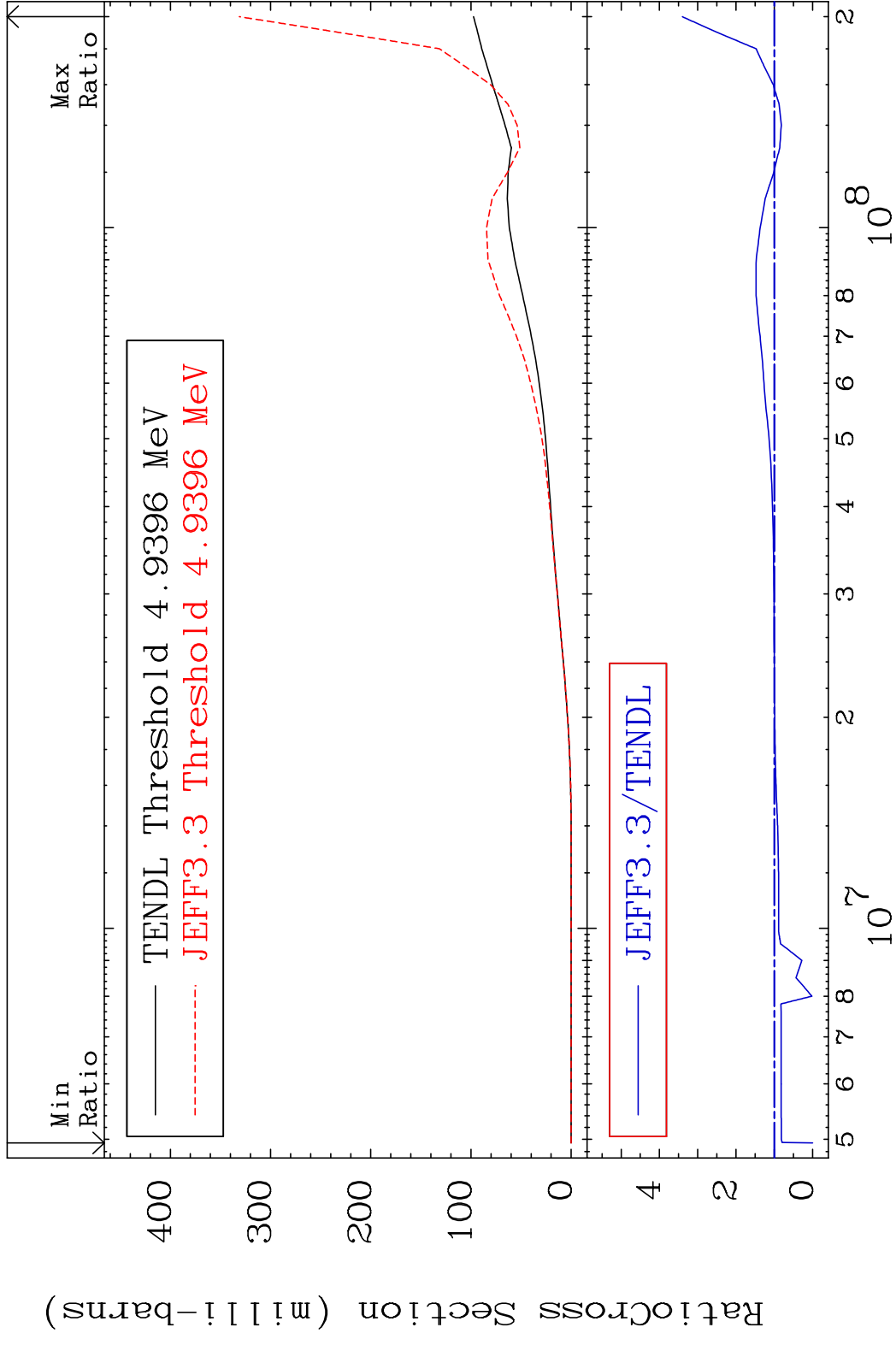


MAT 7034

Tritium Production

70-Yb-171

Cross Section -100.0 To 240.2 %

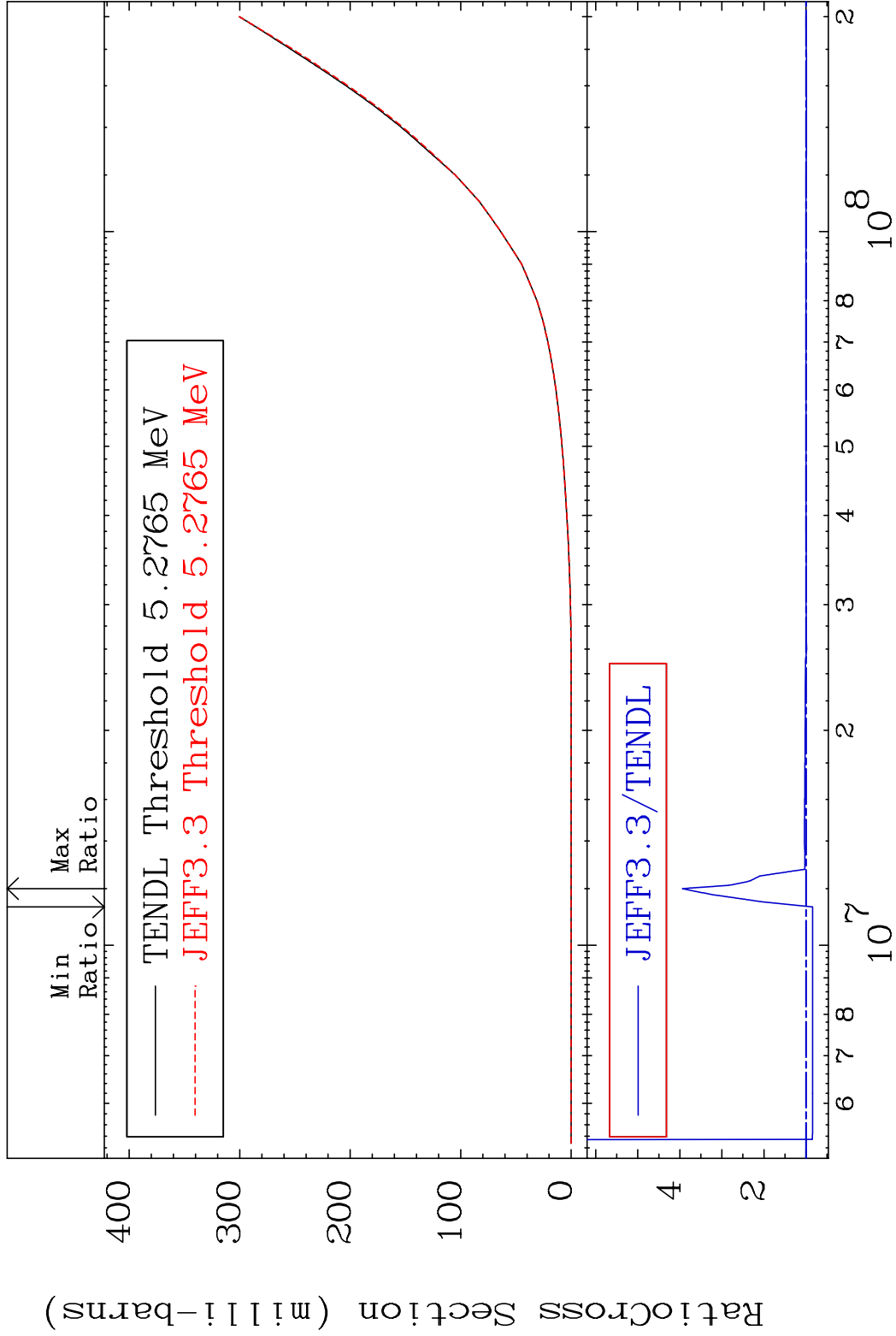


MAT 7034

He-3 Production

70-Yb-171

Cross Section -15.53 To 294.0 %



67

Incident Energy (eV)

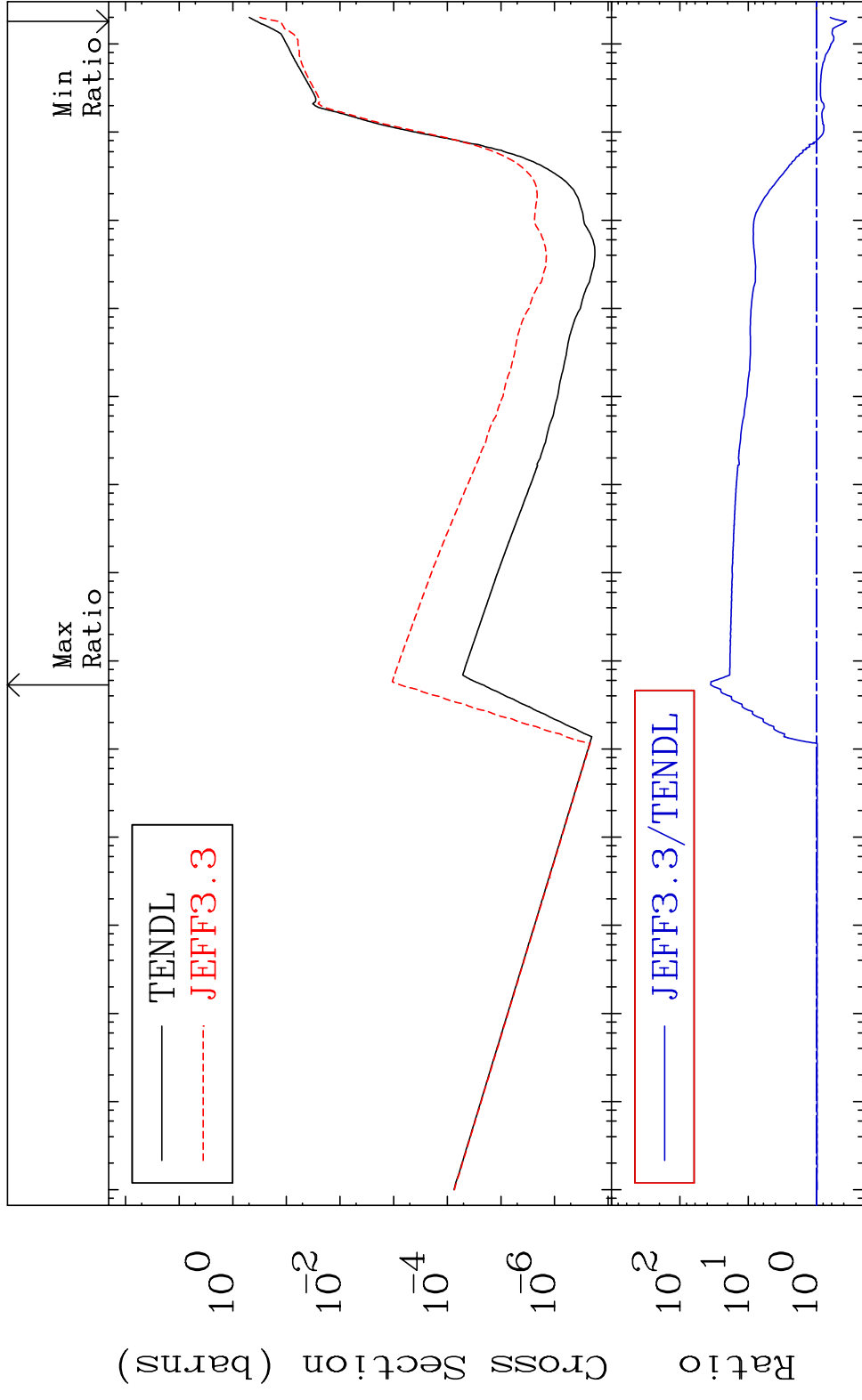
70-Yb-171

MAT 7034

He-4 Production

70-Yb-171

Cross Section -63.34 To 3440. %



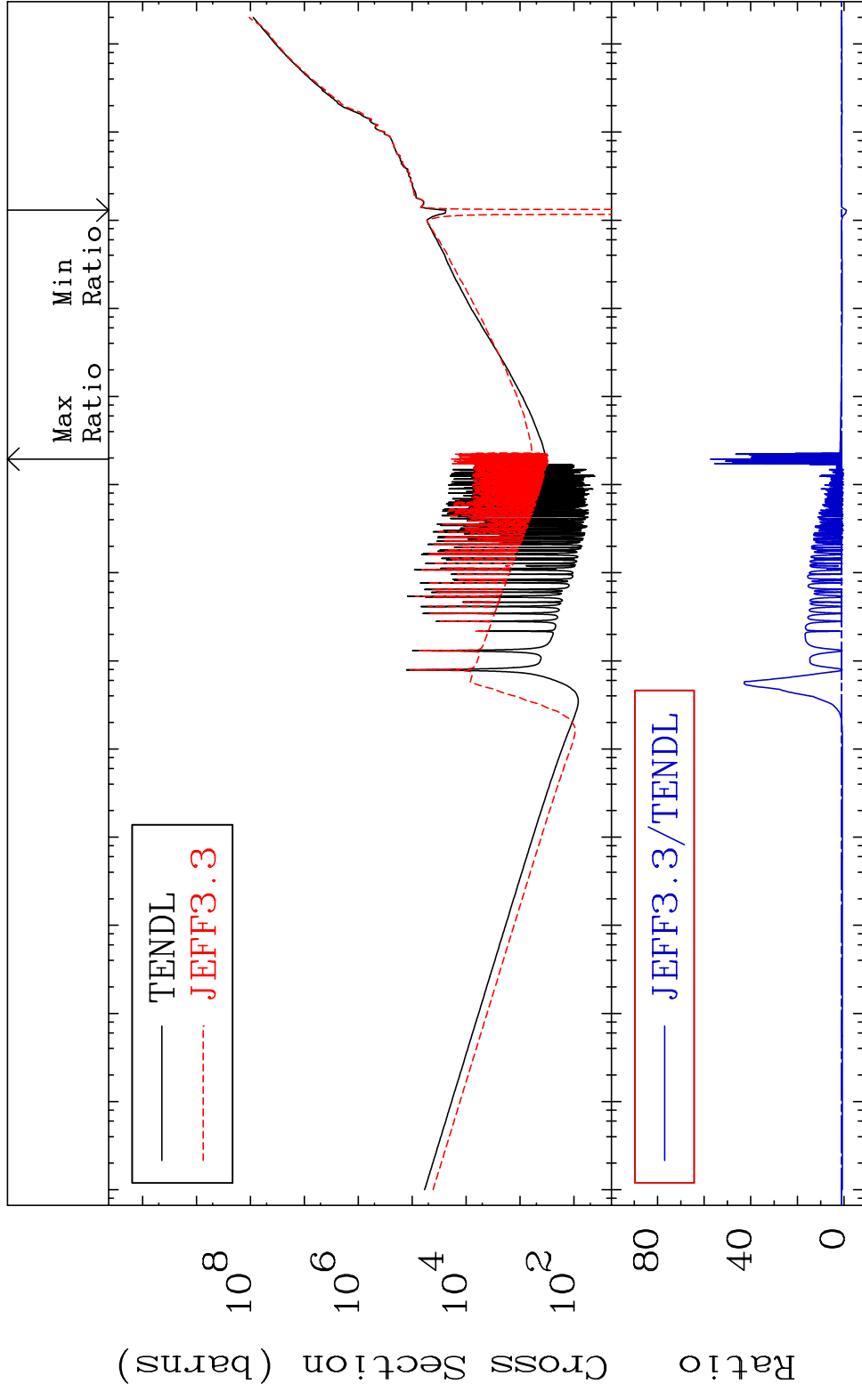
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

68

Incident Energy (eV)

70-Yb-171

MAT 7034 Kerma total (eV-barns) 70-Yb-171
 Cross Section -199.9 To 5617. %



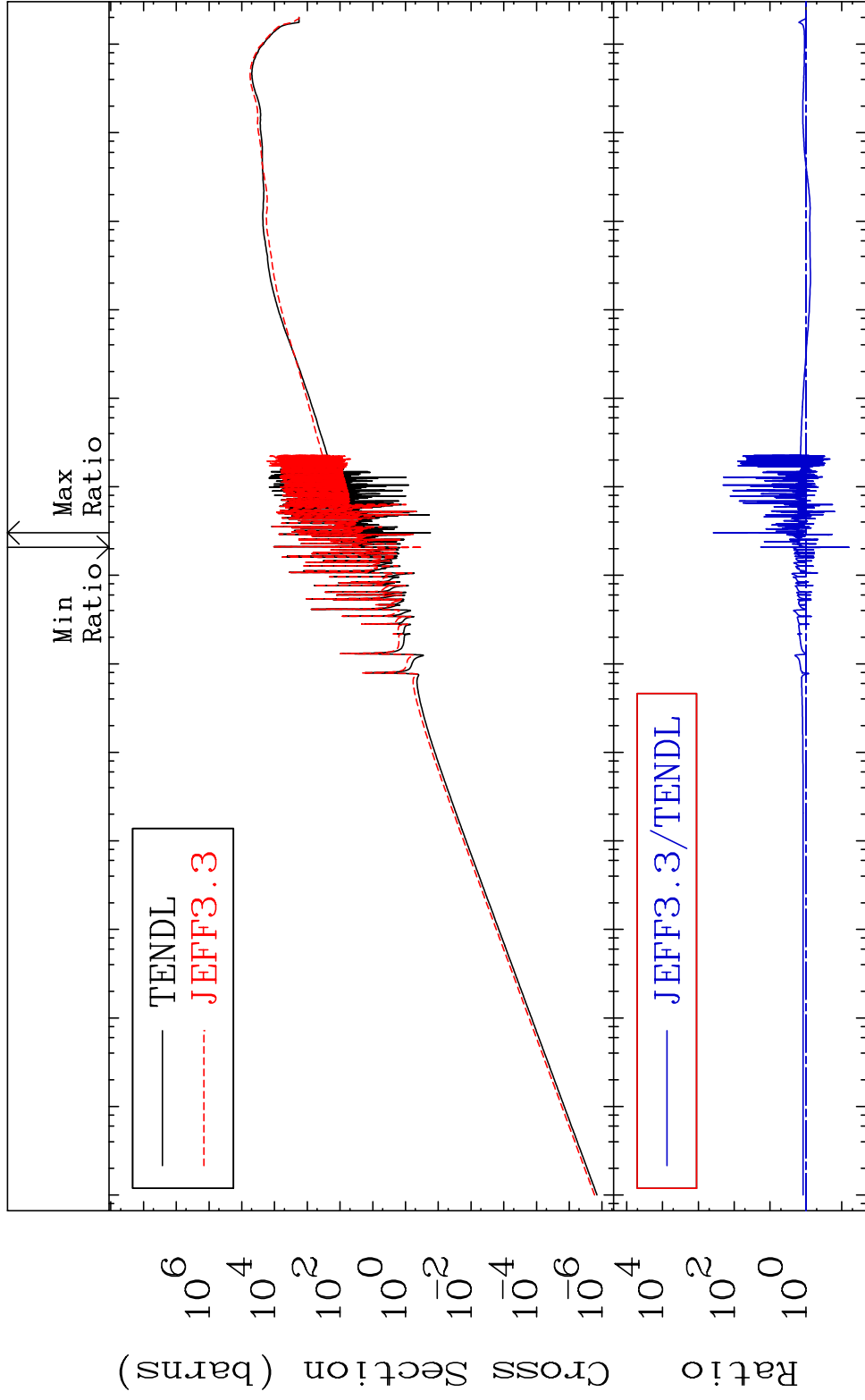
69 Incident Energy (eV) 70-Yb-171

MAT 7034

Kerma elastic

70-Yb-171

Cross Section -93.85 To 9999. %



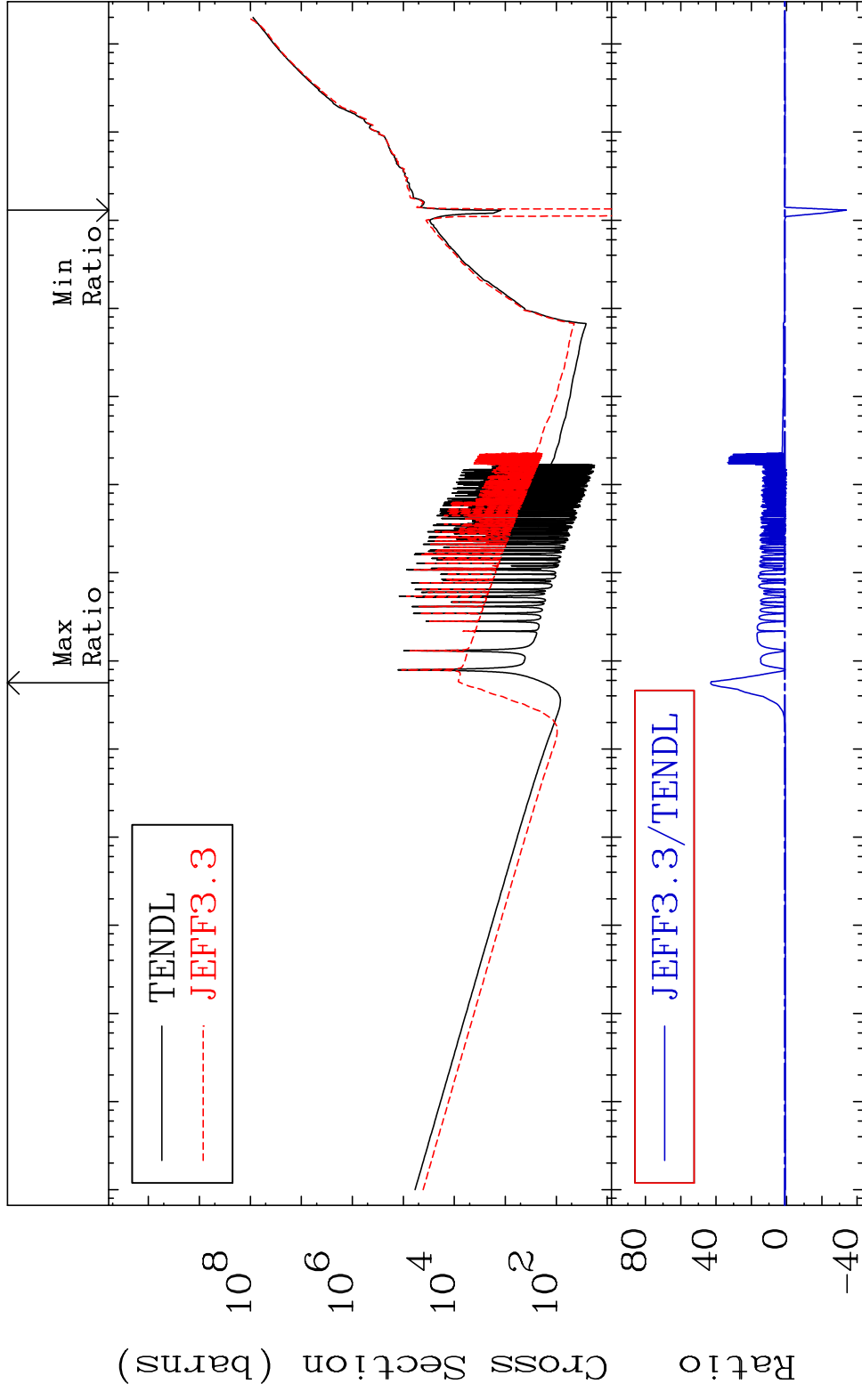
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

70

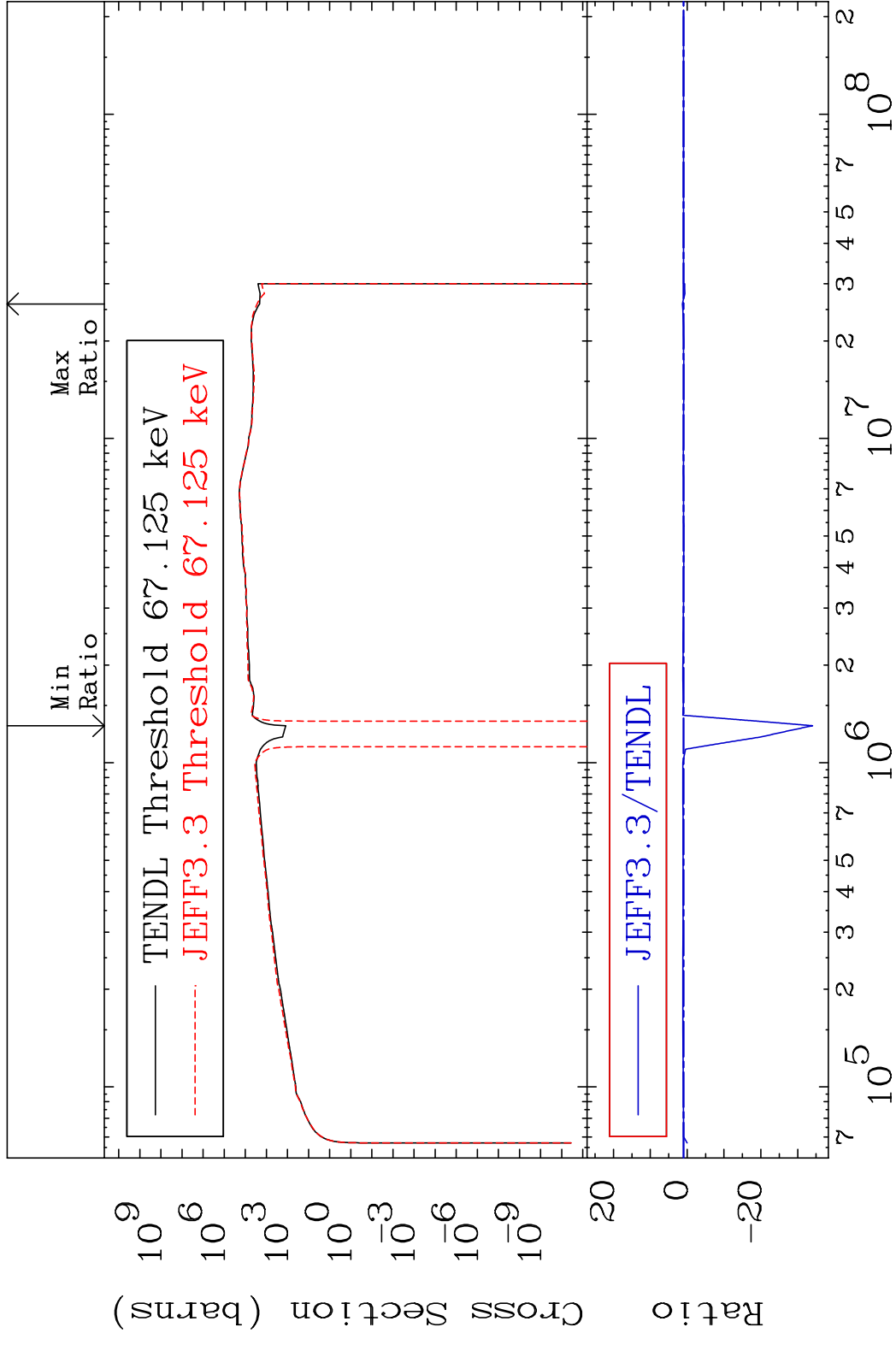
Incident Energy (eV)

70-Yb-171

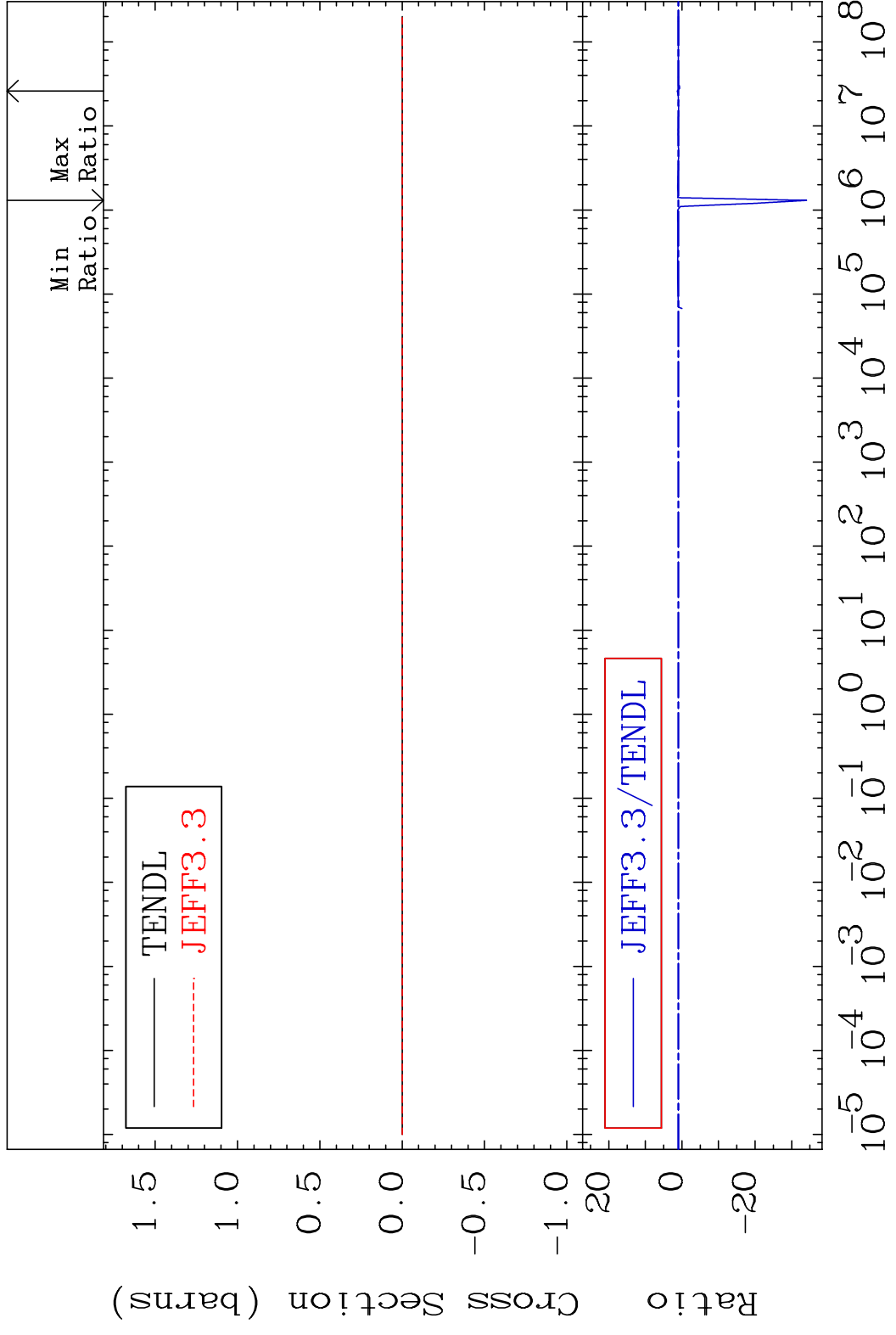
MAT 7034 Kerma non-elastic (all but mt2) 70-Yb-171
 Cross Section -3487. To 4200. %



MAT 7034 Kerma inelastic (mt51-91) 70-Yb-171
 Cross Section -3504. To 30.66 %

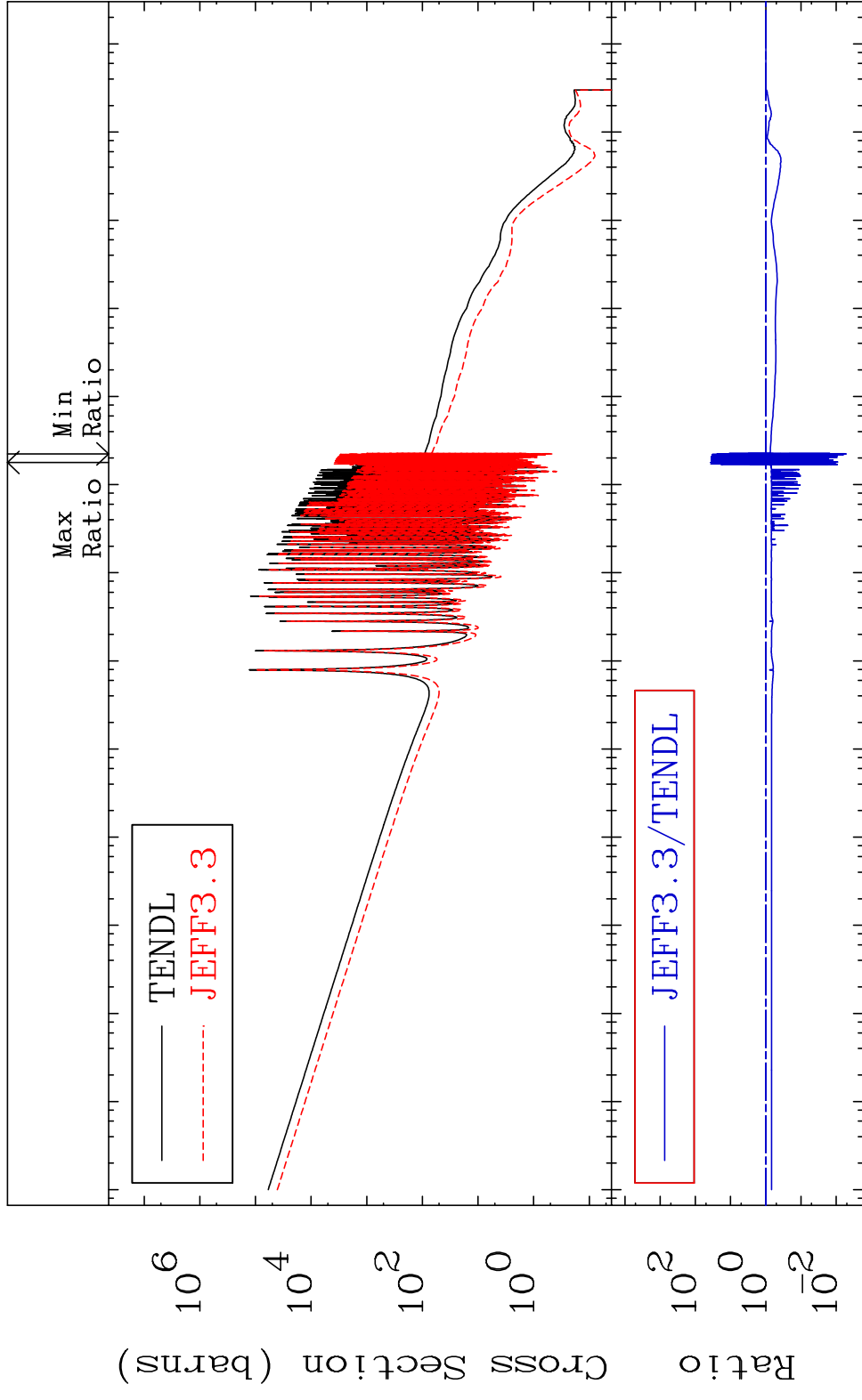


MAT 7034 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-171
 Cross Section -3504. To 30.66 %



MAT 7034

Kerma capture (mt102) 70-Yb-171
Cross Section -99.49 To 3560. %



74

Incident Energy (eV)

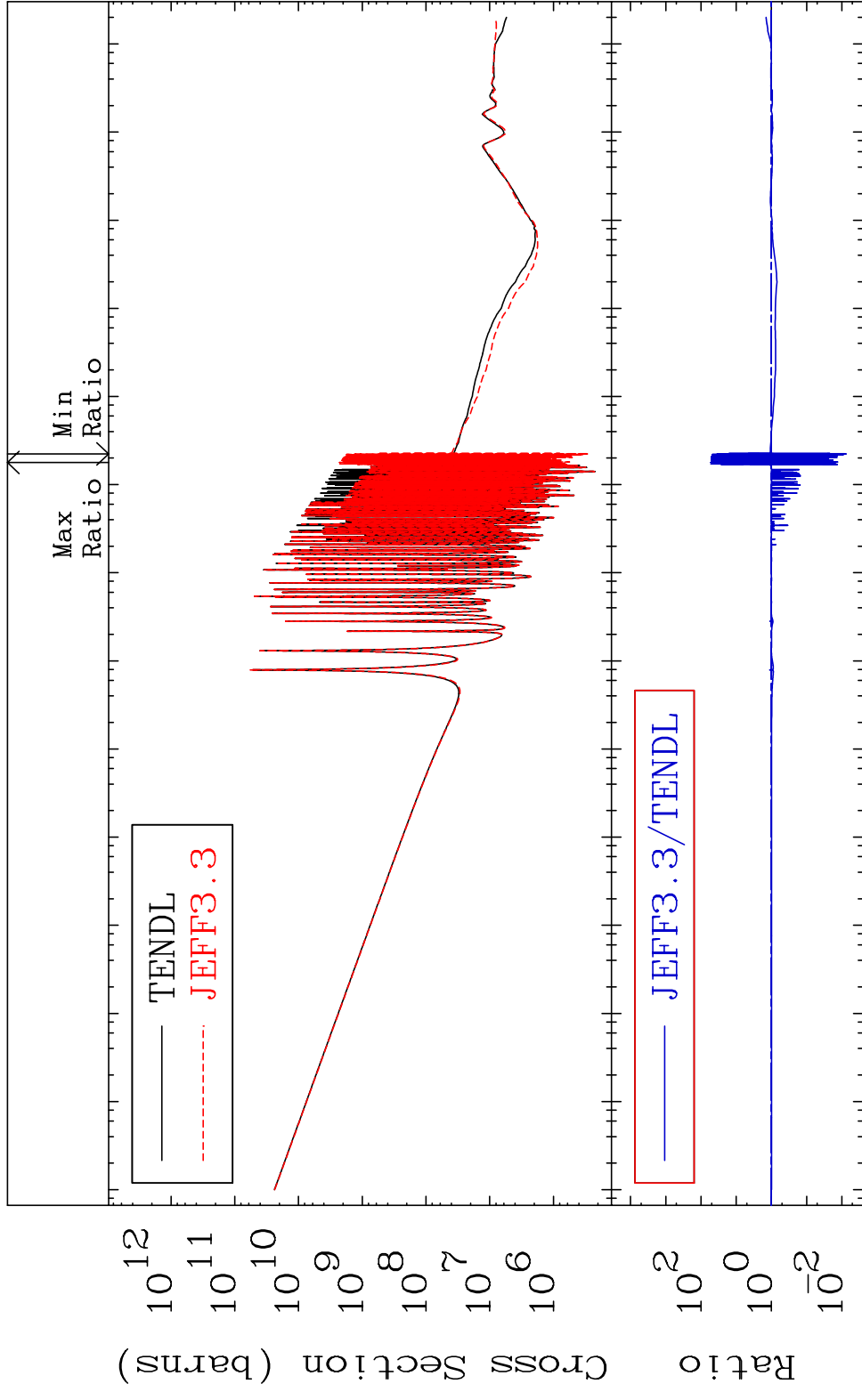
70-Yb-171

MAT 7034

Total photon (eV-barns)

70-Yb-171

Cross Section -99.26 To 5193. %

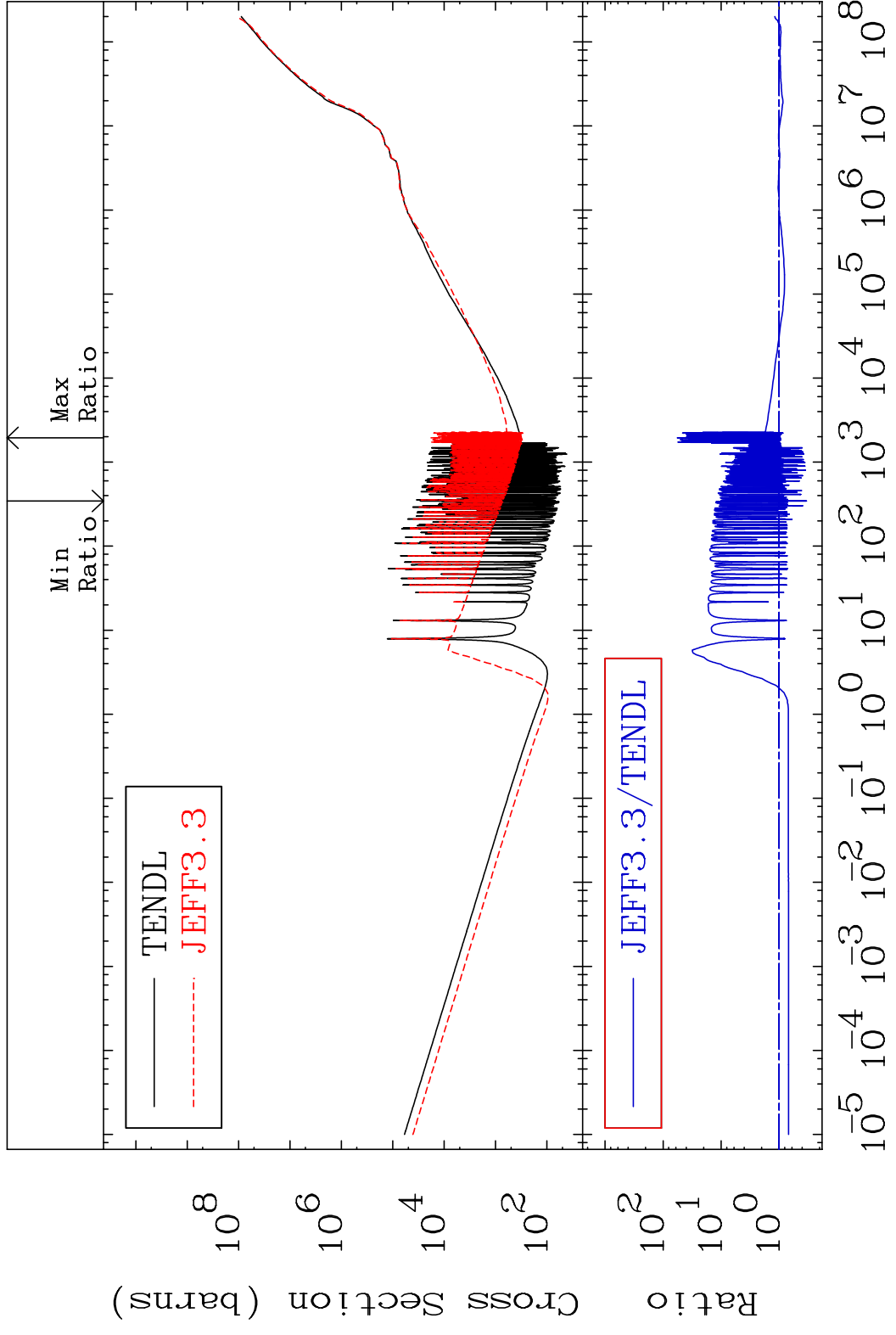


75

Incident Energy (eV)

70-Yb-171

MAT 7034 Total kinematic kerma (high limit) 70-Yb-171
 Cross Section -66.17 To 5616. %

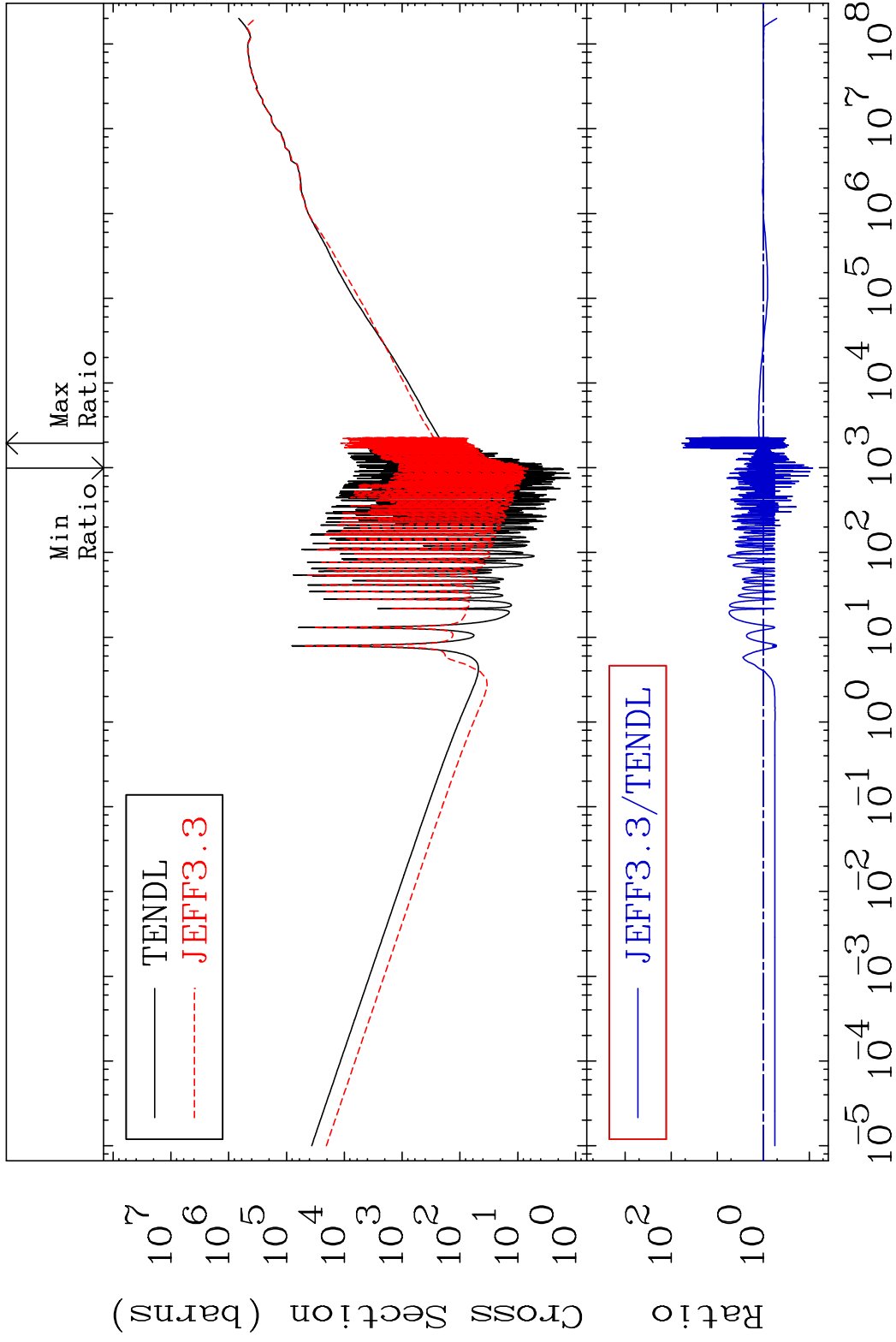


MAT 7034

Dpa total (eV-barns)

70-Yb-171

Cross Section -91.48 To 5690. %



77

Incident Energy (eV)

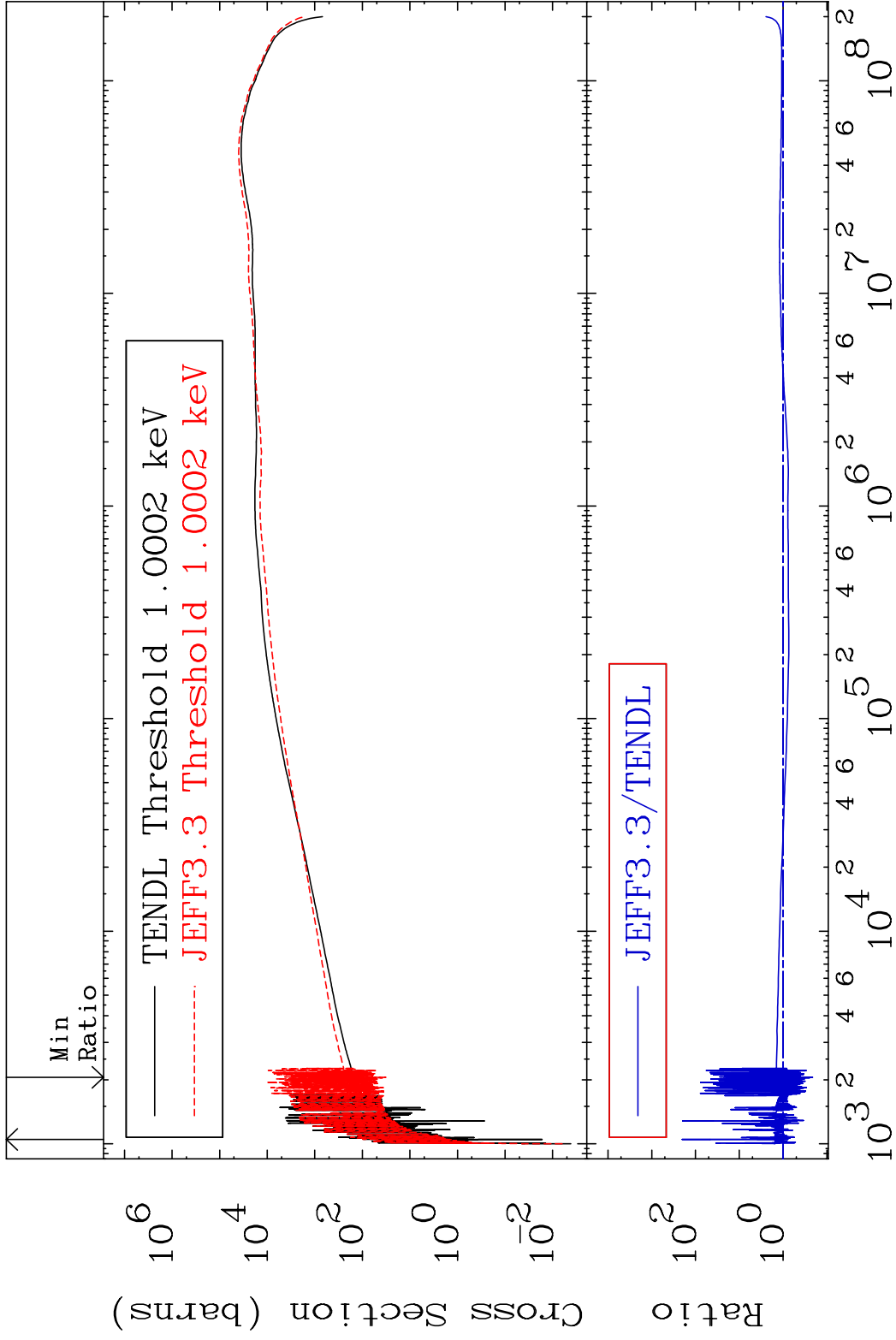
70-Yb-171

MAT 7034

Dpa elastic (mt2)

70-Yb-171

Cross Section -78.61 To 9999. %



78

Incident Energy (eV)

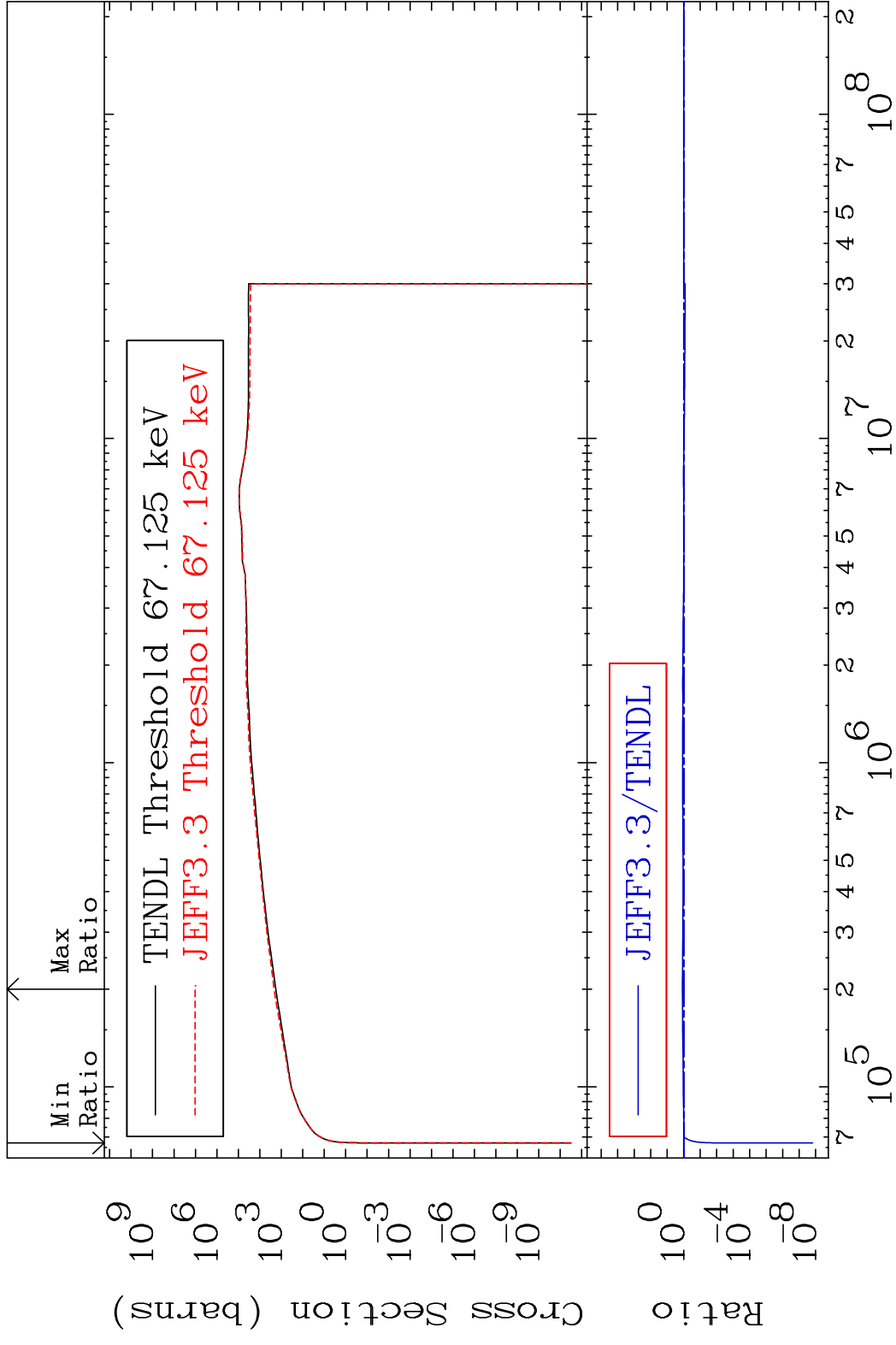
70-Yb-171

MAT 7034

Dpa inelastic (mt51-91)

70-Yb-171

Cross Section -100.0 To 20.15 %

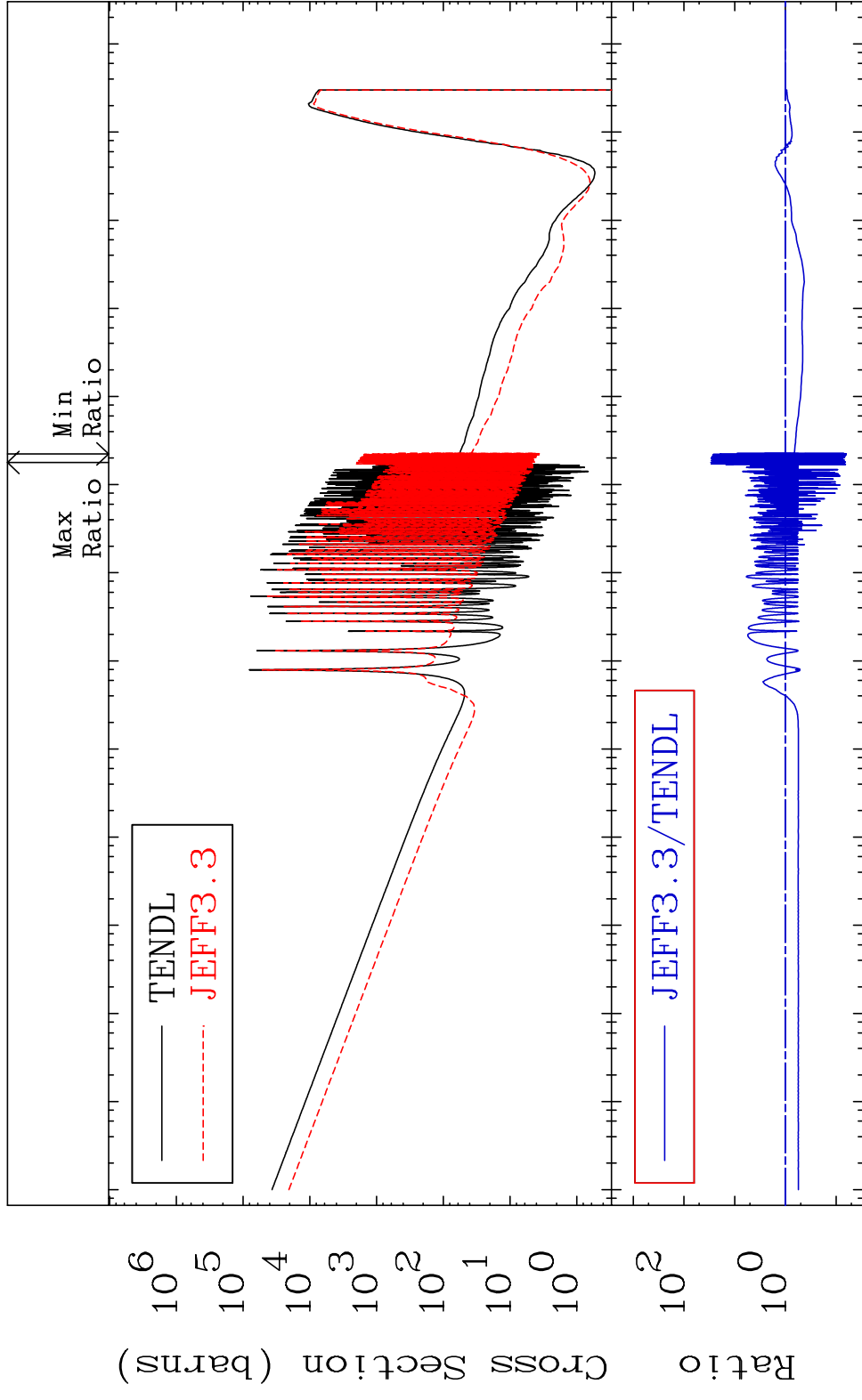


79

Incident Energy (eV)

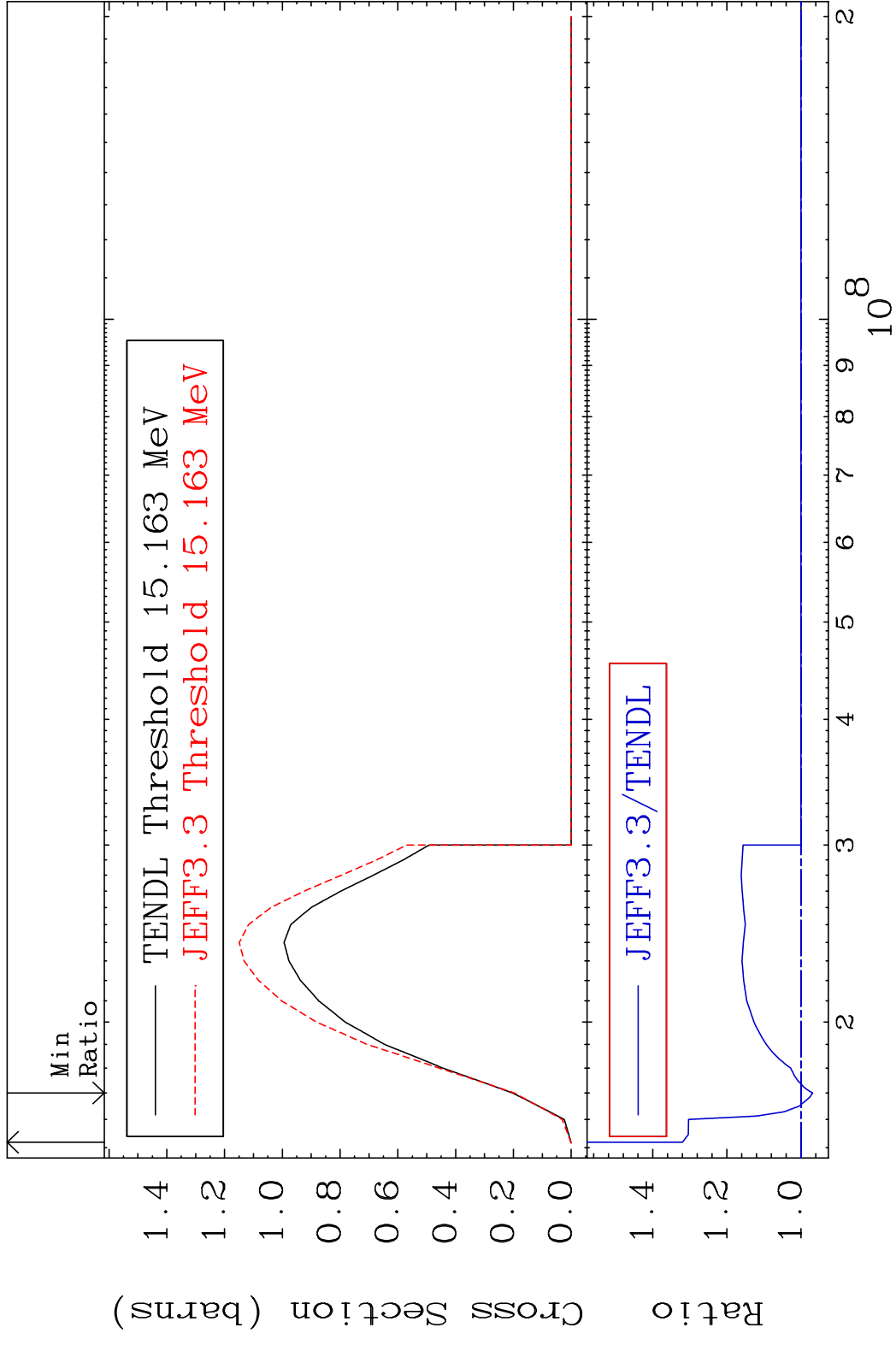
70-Yb-171

MAT 7034 Dpa disappearance (mt102 -120) 70-Yb-171
 Cross Section -93.69 To 2869. %



80 Incident Energy (eV) 70-Yb-171

MAT 7034 (n,3n):70-Yb-169g 70-Yb-171
 Radionuclide Production Cross Section 32.03 %



MAT 7034 (n, 3n): 70-Yb-169m1 70-Yb-171
 Radionuclide Production Cross Section 48.97 dpo 13.56 %

