

Program Complot
(Version 2021-1)

by

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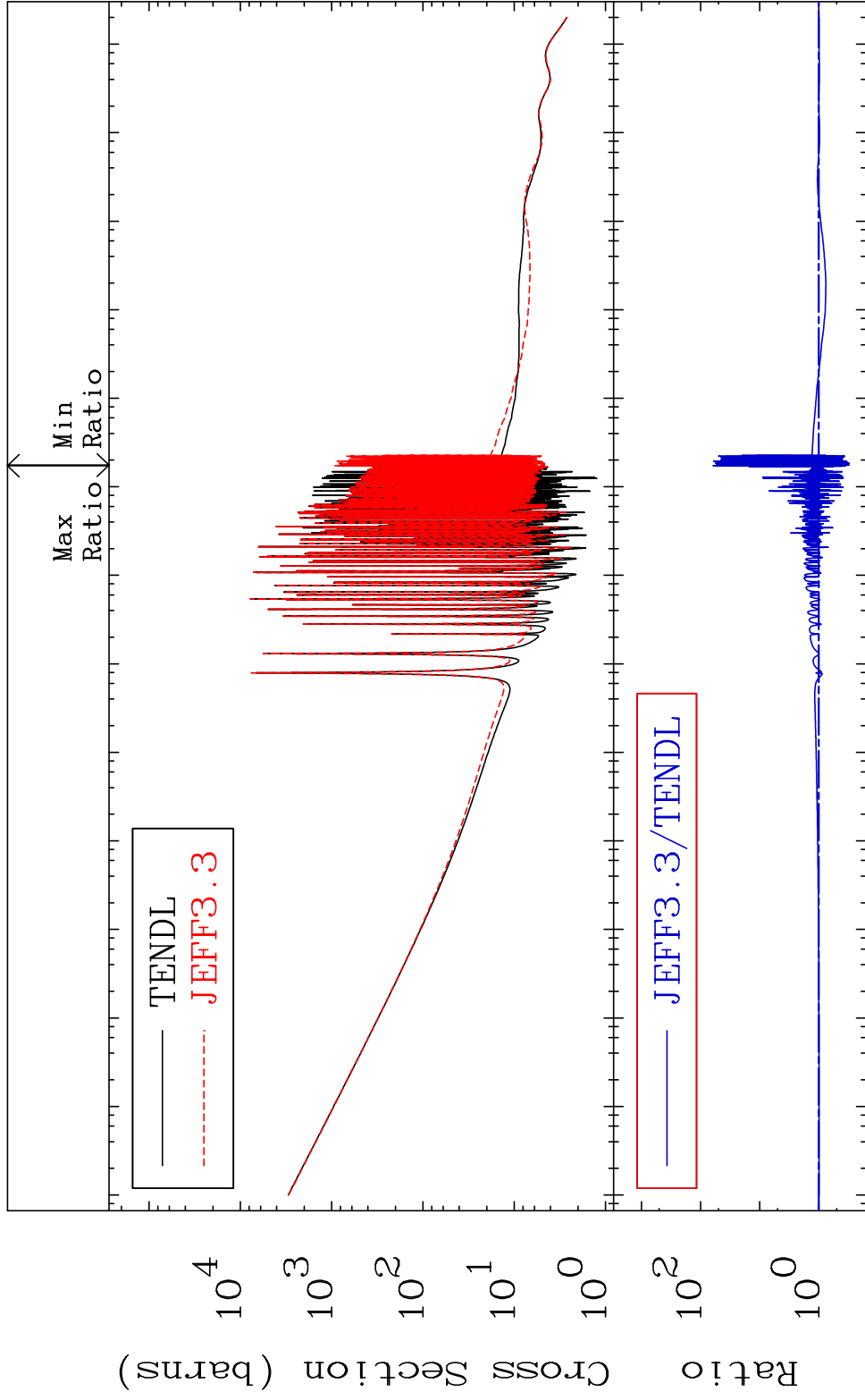
Press Mouse Button to Start

MAT 7034

Total

70-Yb-171

Cross Section -69.29 To 6017. %



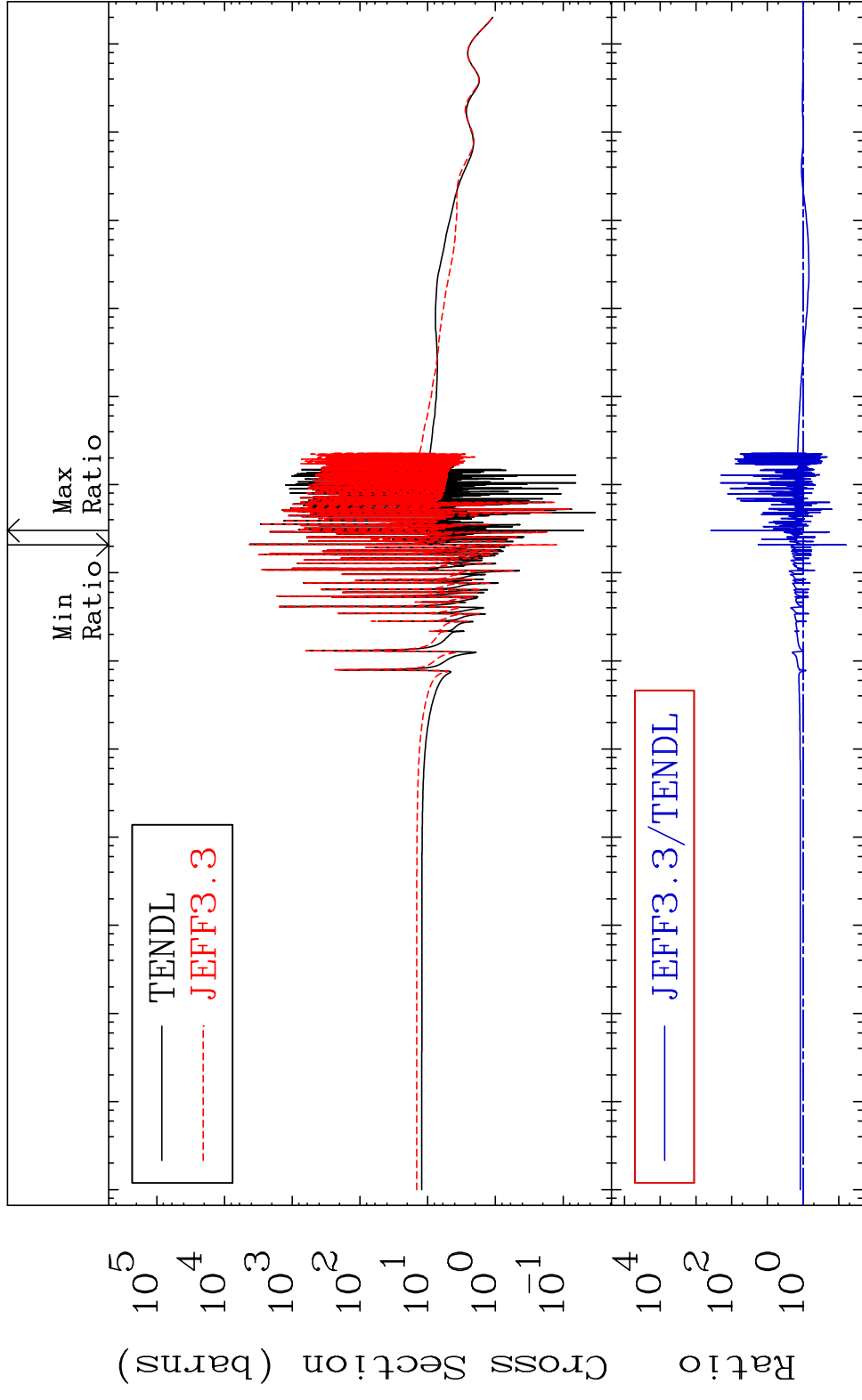
1

Incident Energy (eV)

70-Yb-171

MAT 7034

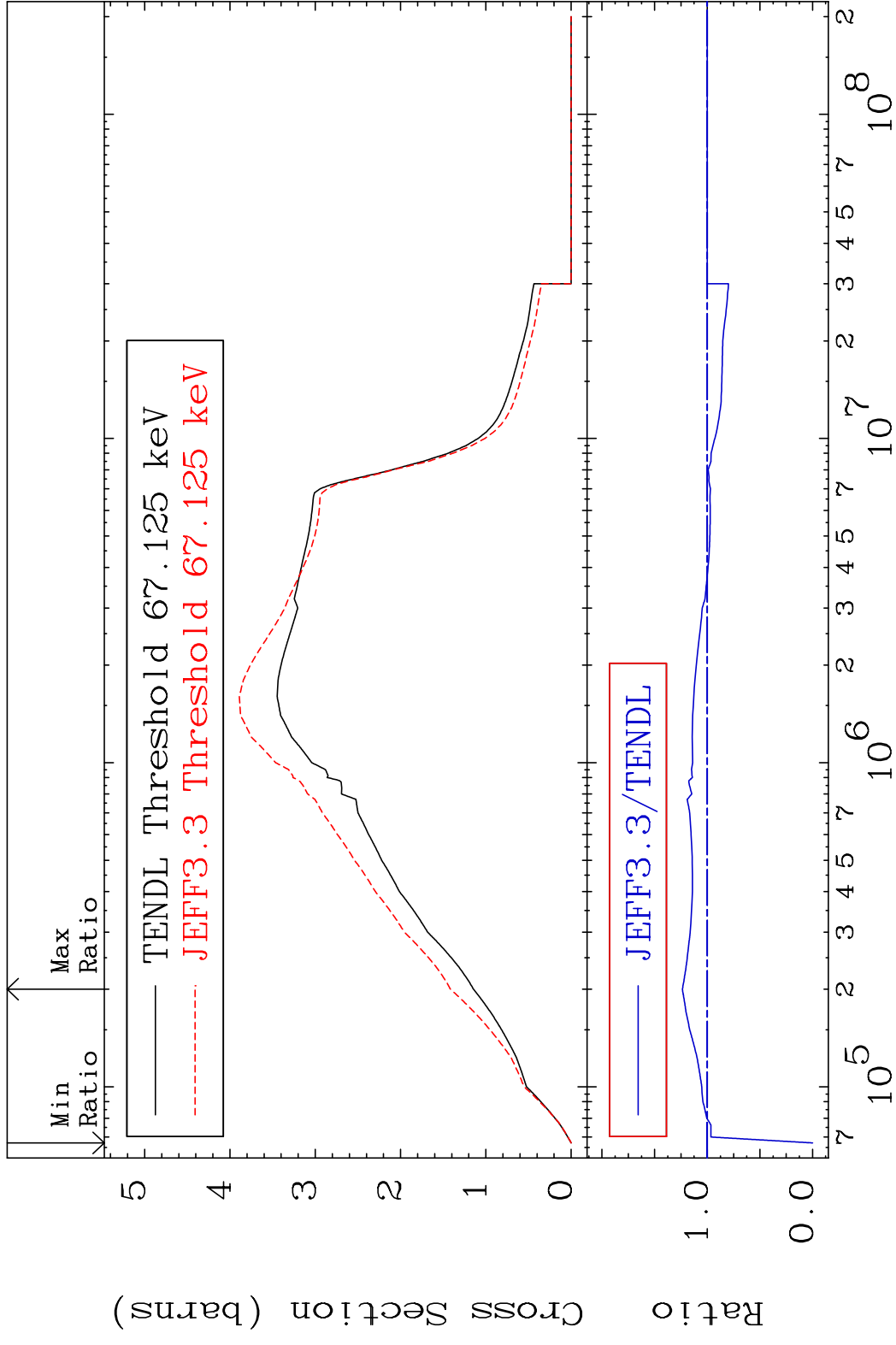
Elastic Cross Section -93.85 To 9999. %
70-Yb-171



Ratio
Cross Section (barns)
Incident Energy (eV)

2 70-Yb-171

MAT 7034 Inelastic 70-Yb-171
Cross Section -100.0 To 23.67 %



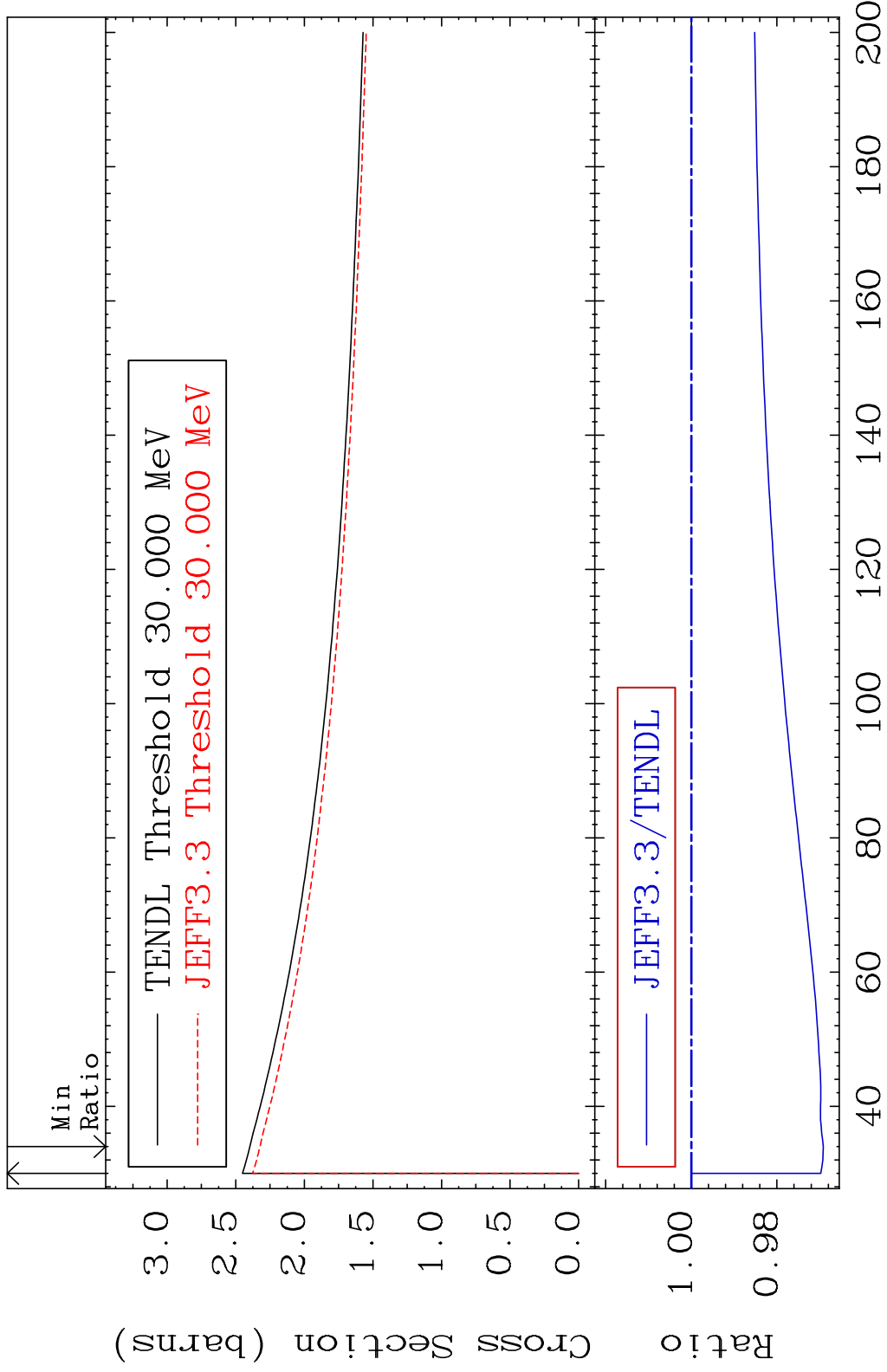
3 Incident Energy (eV) 70-Yb-171

MAT 7034

(n, remainder)

70-Yb-171

Cross Section -3.082 To 0.000 %



4

Incident Energy (MeV)

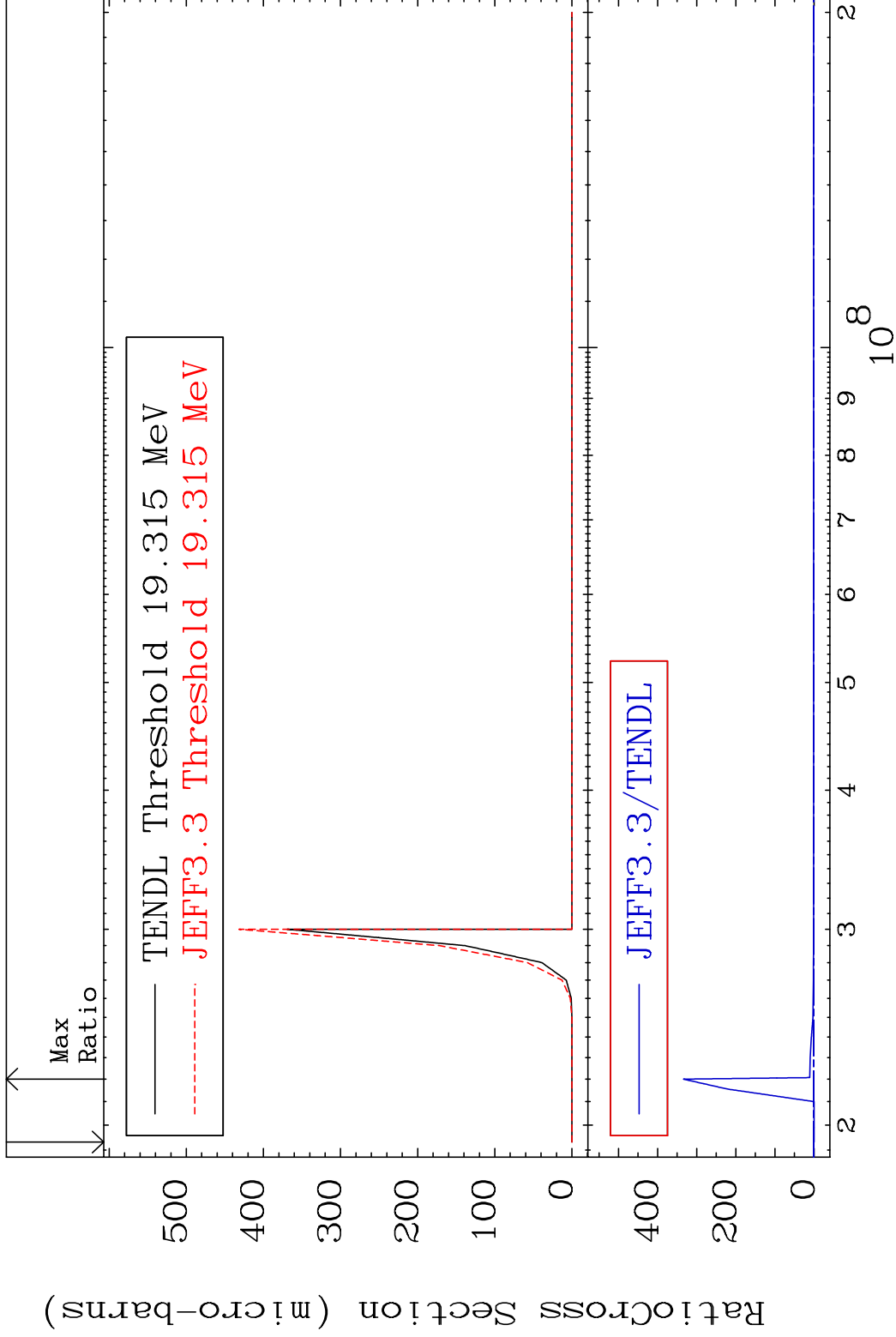
70-Yb-171

MAT 7034

(n,2n) d

70-Yb-171

Cross Section -100.0 To 9999. %



5

Incident Energy (eV)

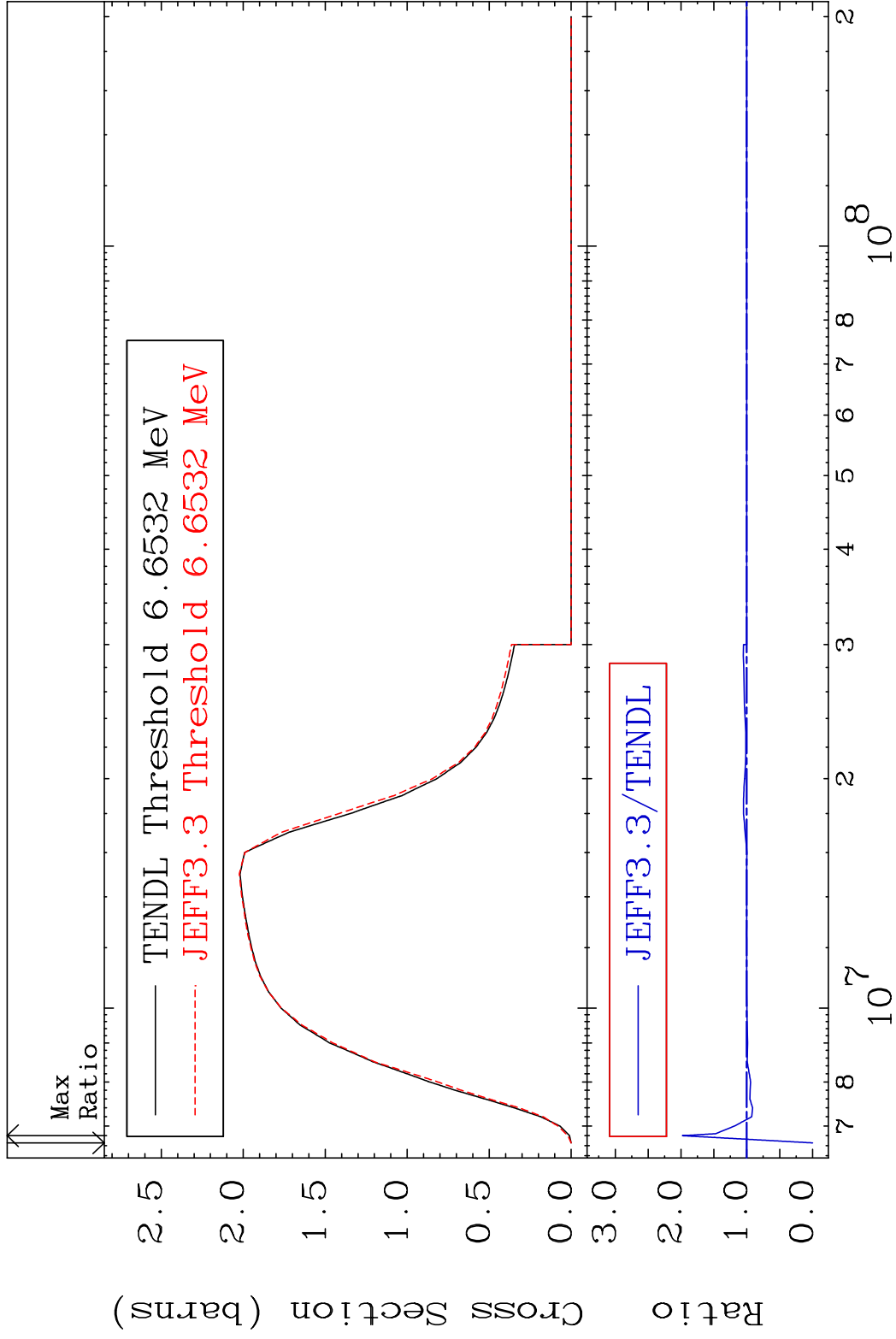
70-Yb-171

MAT 7034

(n,2n)

70-Yb-171

Cross Section -100.0 To 97.95 %



6

Incident Energy (eV)

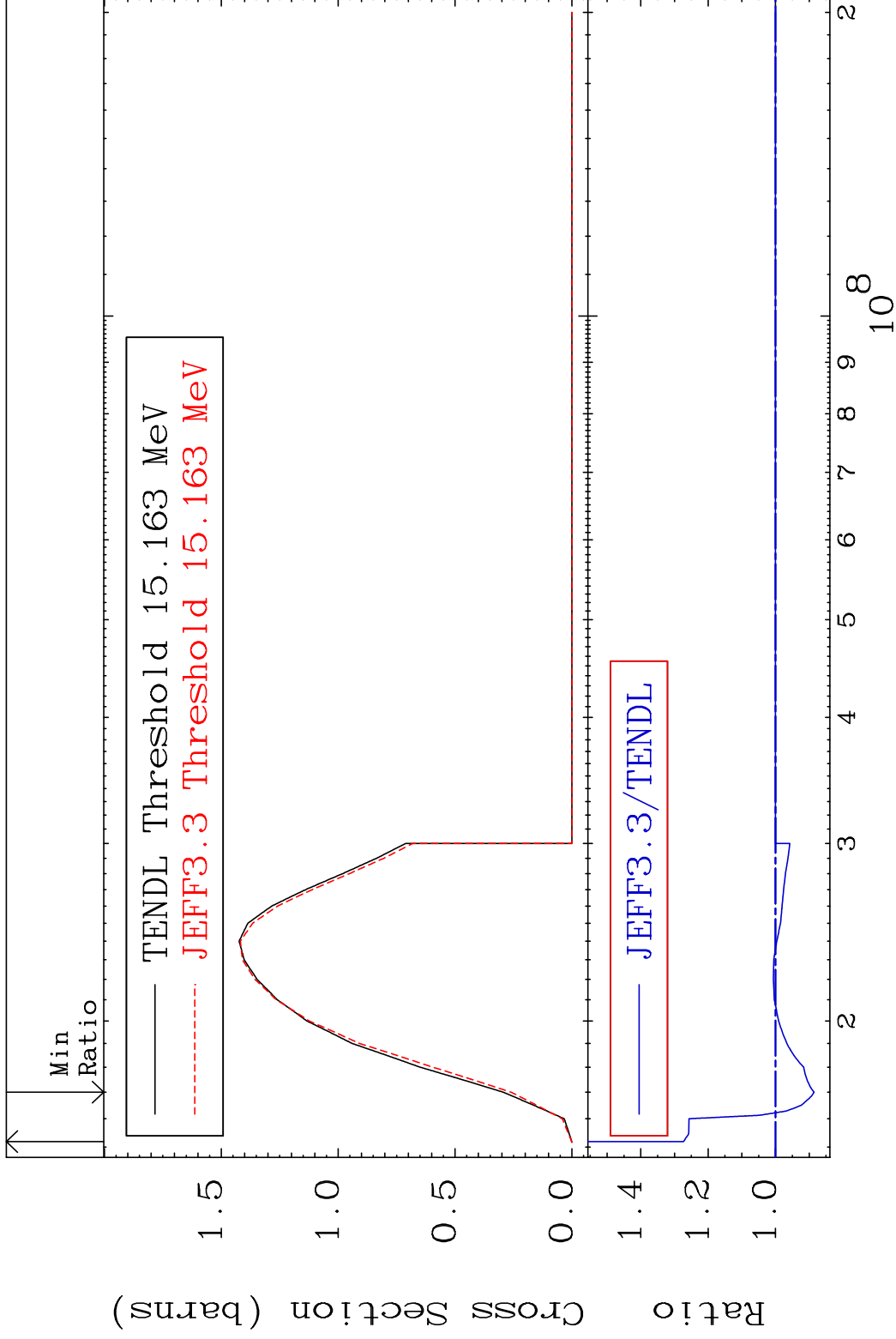
70-Yb-171

MAT 7034

(n,3n)

70-Yb-171

Cross Section -11.44 To 27.33 %



7

Incident Energy (eV)

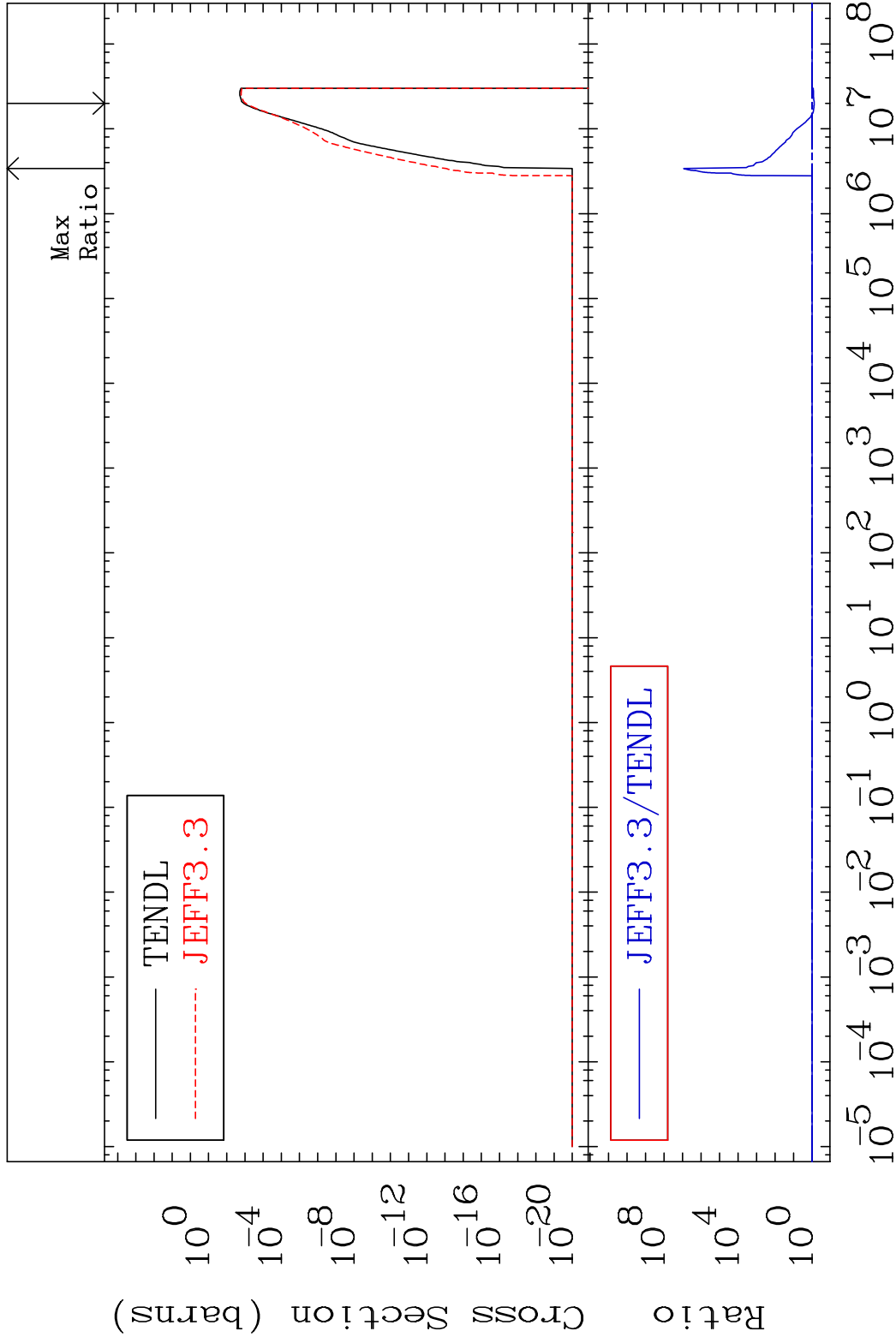
70-Yb-171

MAT 7034

(n, n') α

70-Yb-171

Cross Section -21.83 To 9999. %

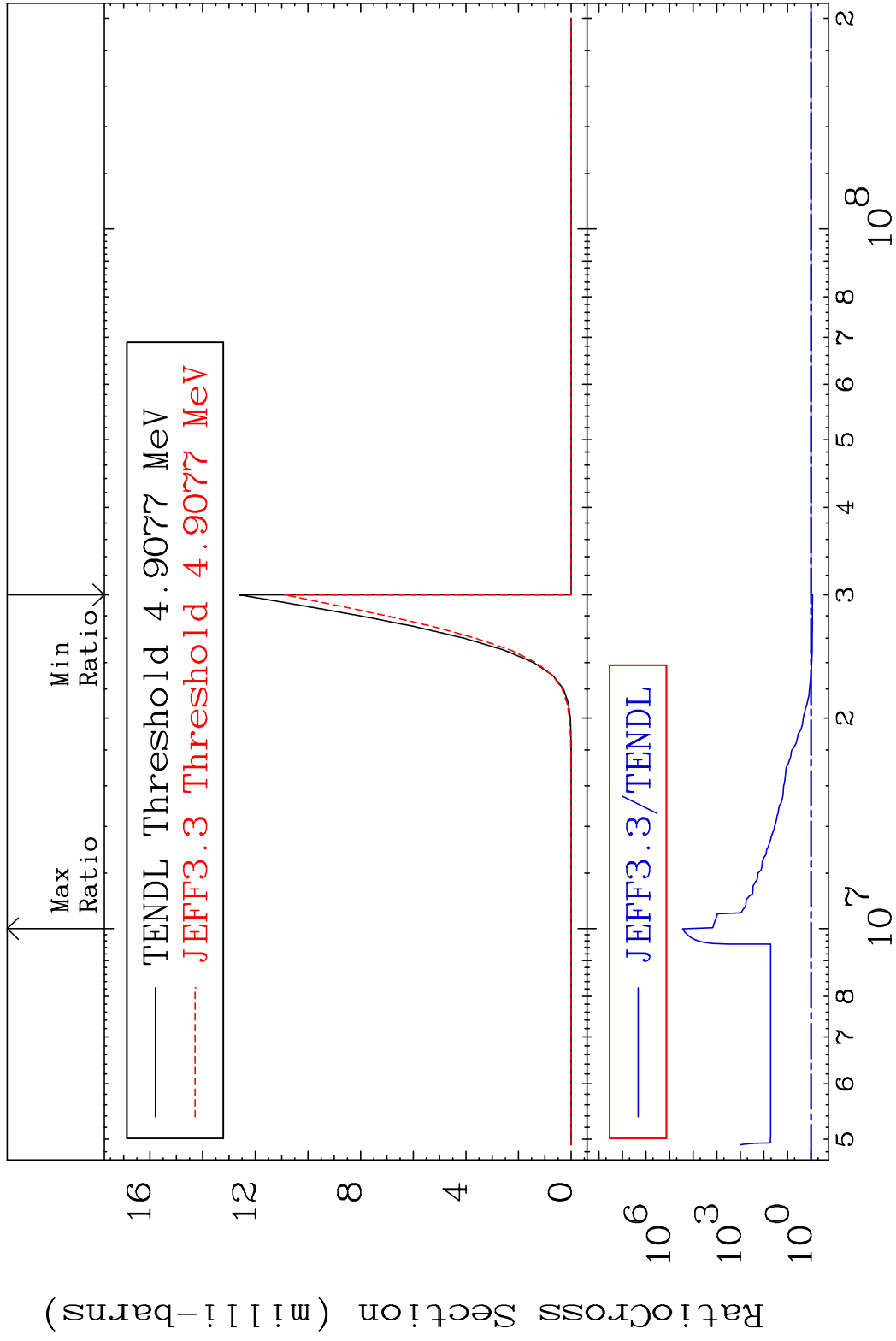


MAT 7034

(n,2n) α

70-Yb-171

Cross Section -13.66 To 9999. %



9

Incident Energy (eV)

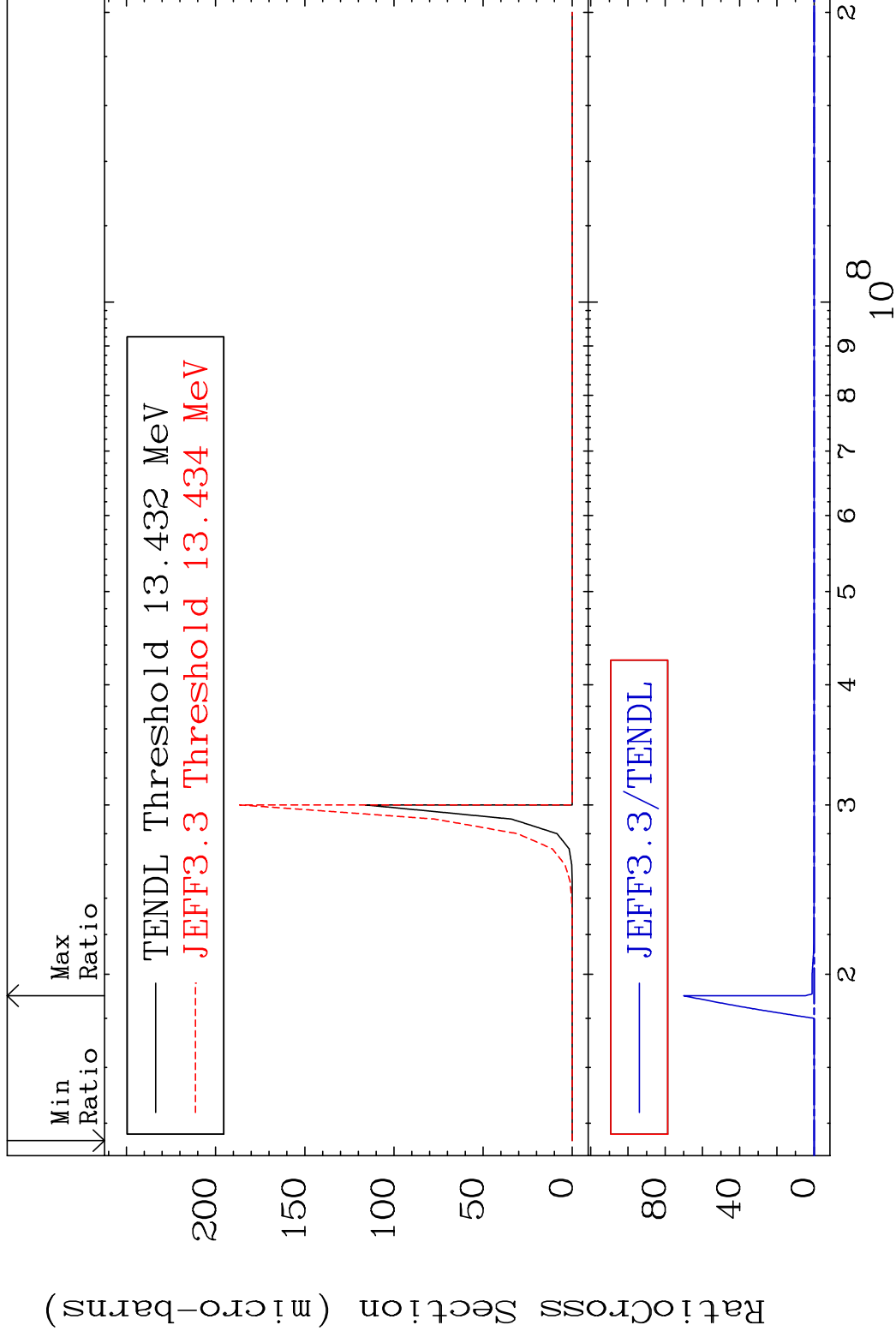
70-Yb-171

MAT 7034

(n,3n) α

70-Yb-171

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

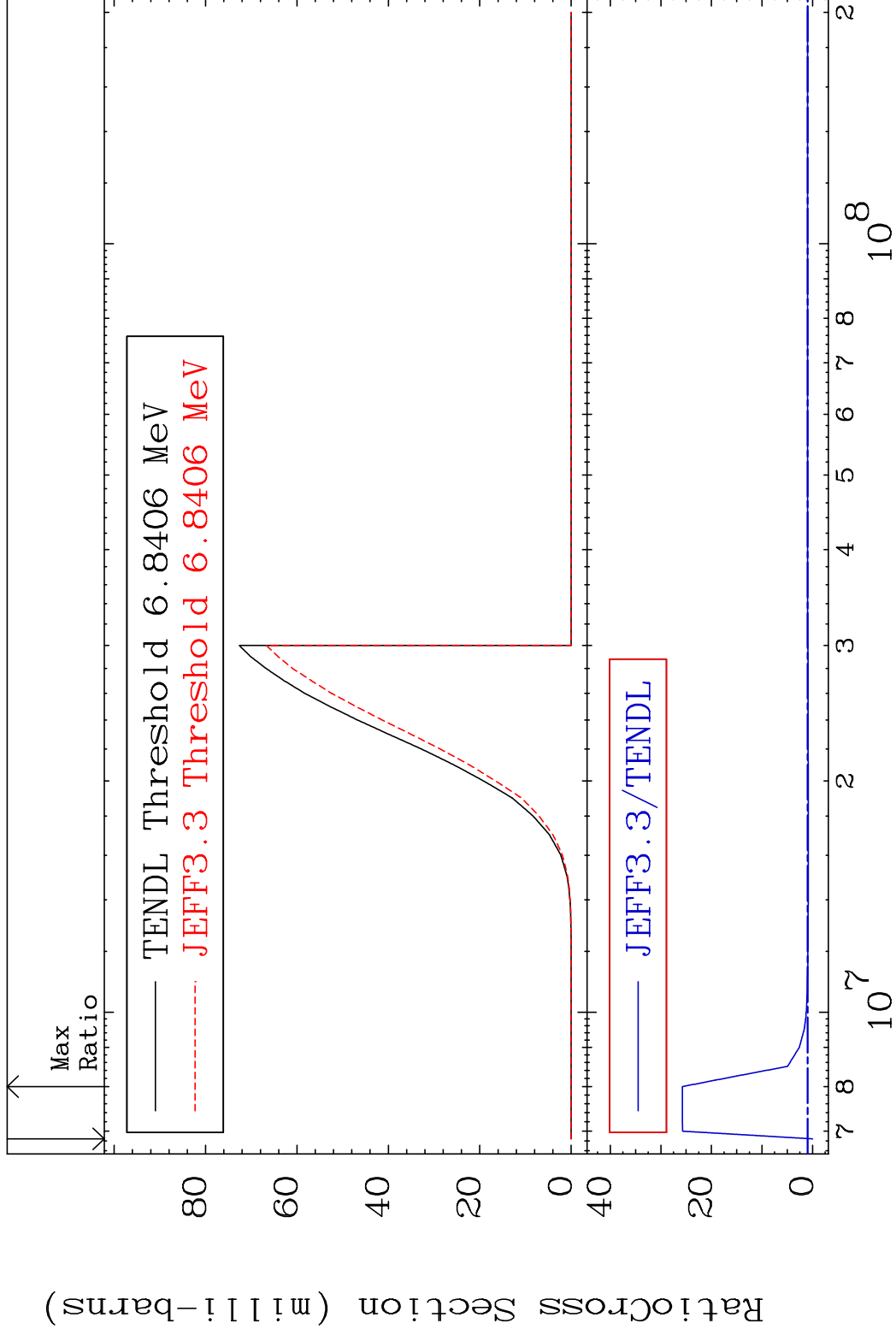
70-Yb-171

MAT 7034

(n, n') p

70-Yb-171

Cross Section -100.0 To 2475. %



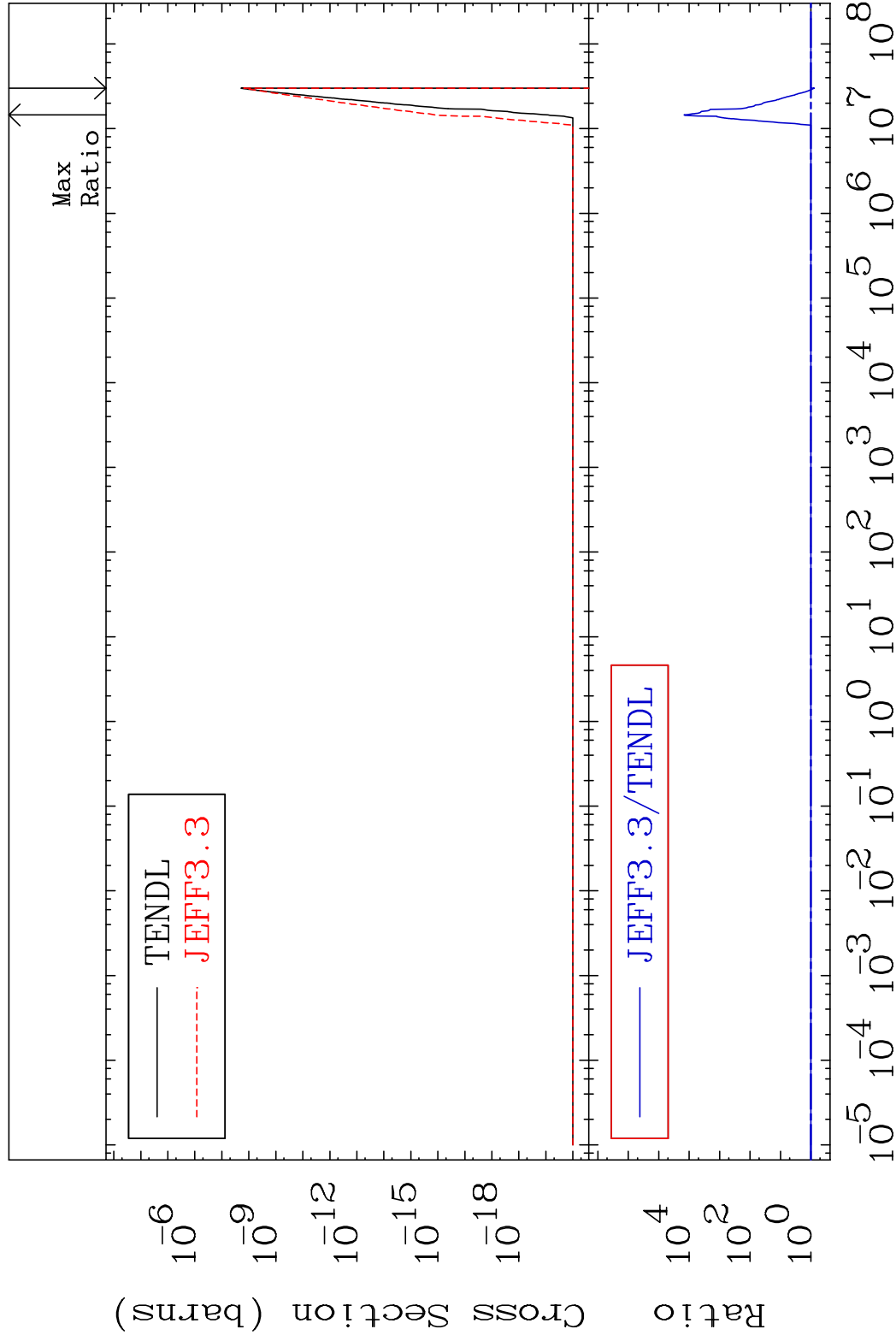
MAT 7034

(n, n') 2α

70-Yb-171

Cross Section

-22.24 To 9999. %



12

Incident Energy (eV)

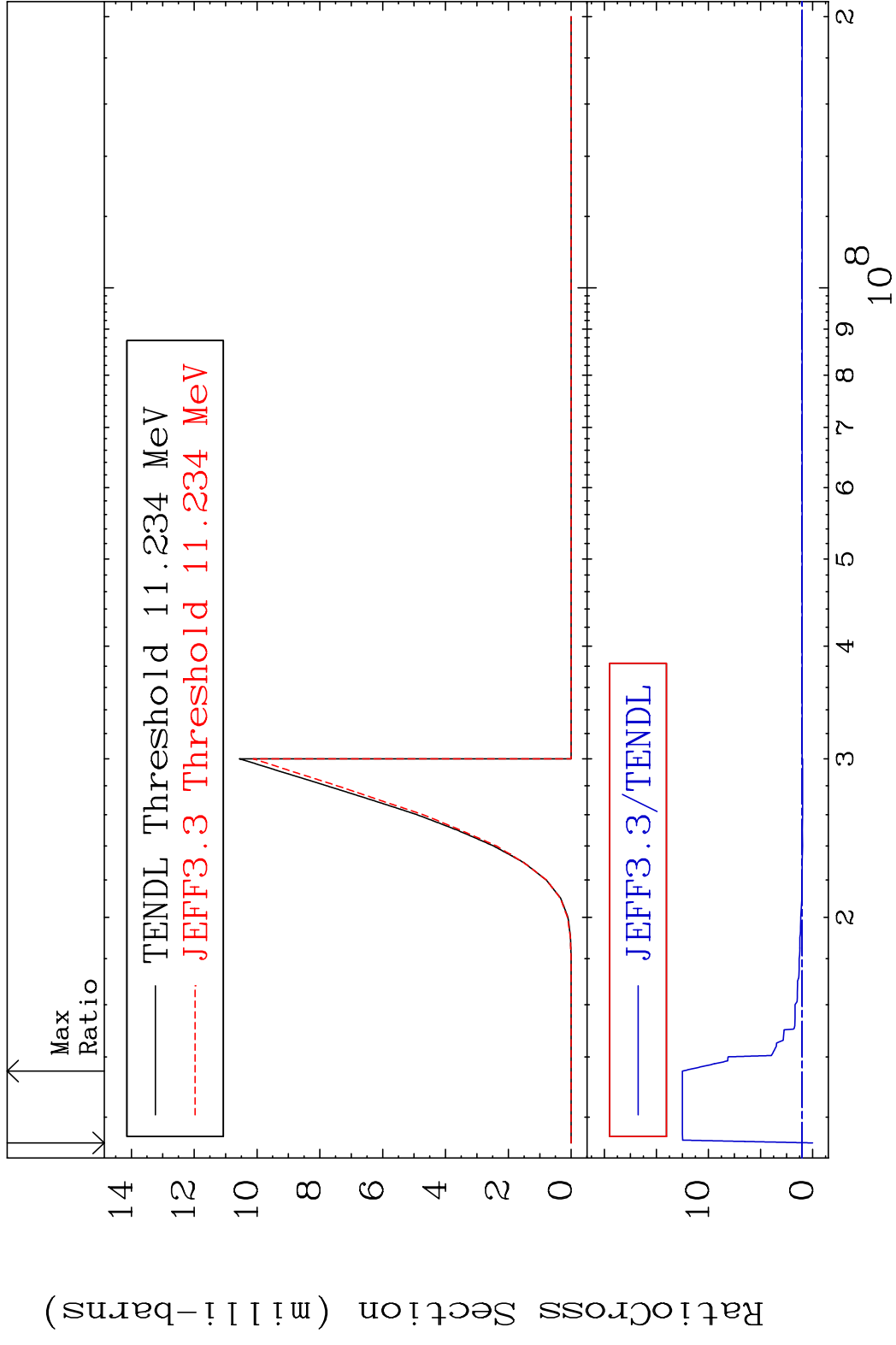
70-Yb-171

MAT 7034

(n, n') d

70-Yb-171

Cross Section -100.0 To 1151. %

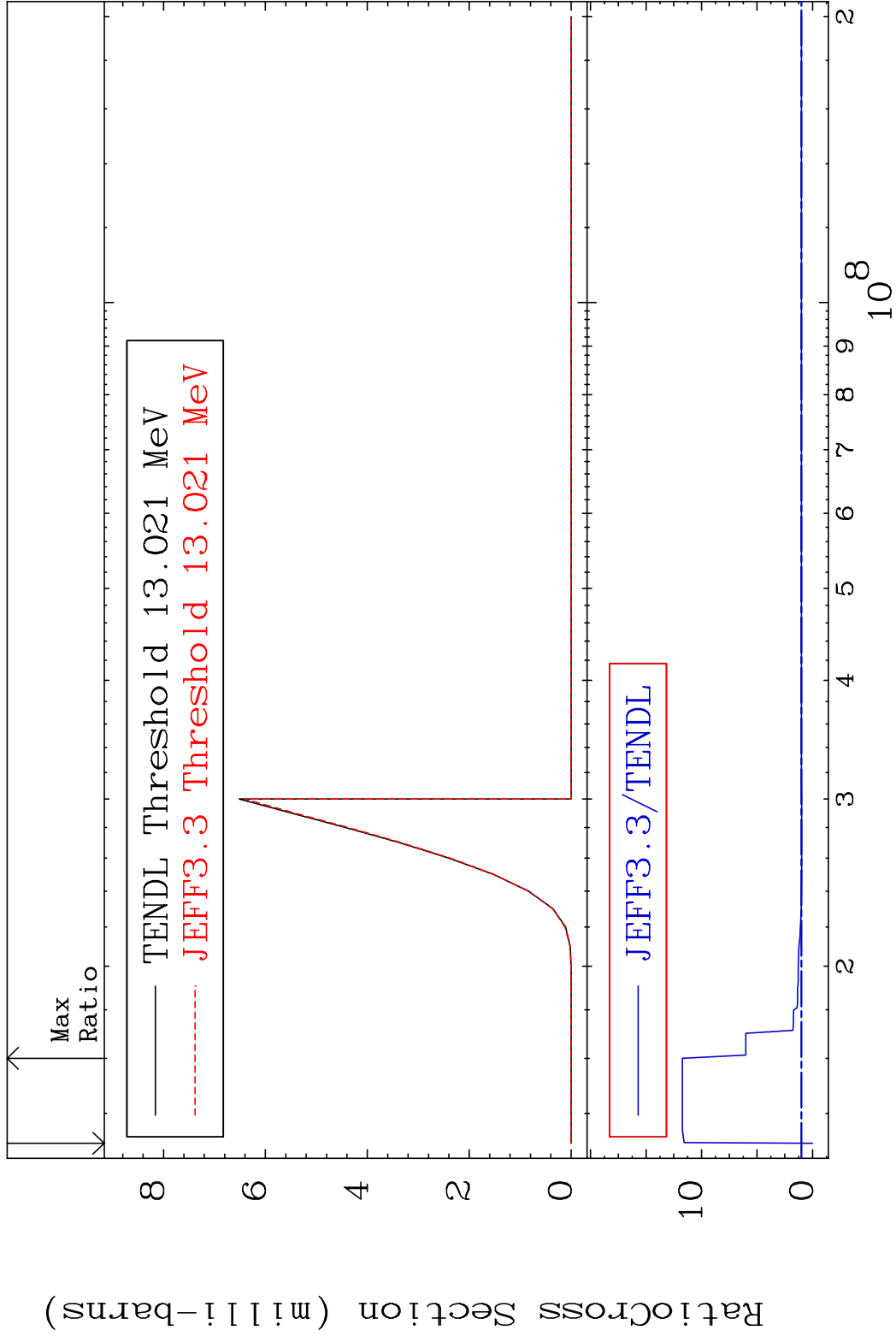


MAT 7034

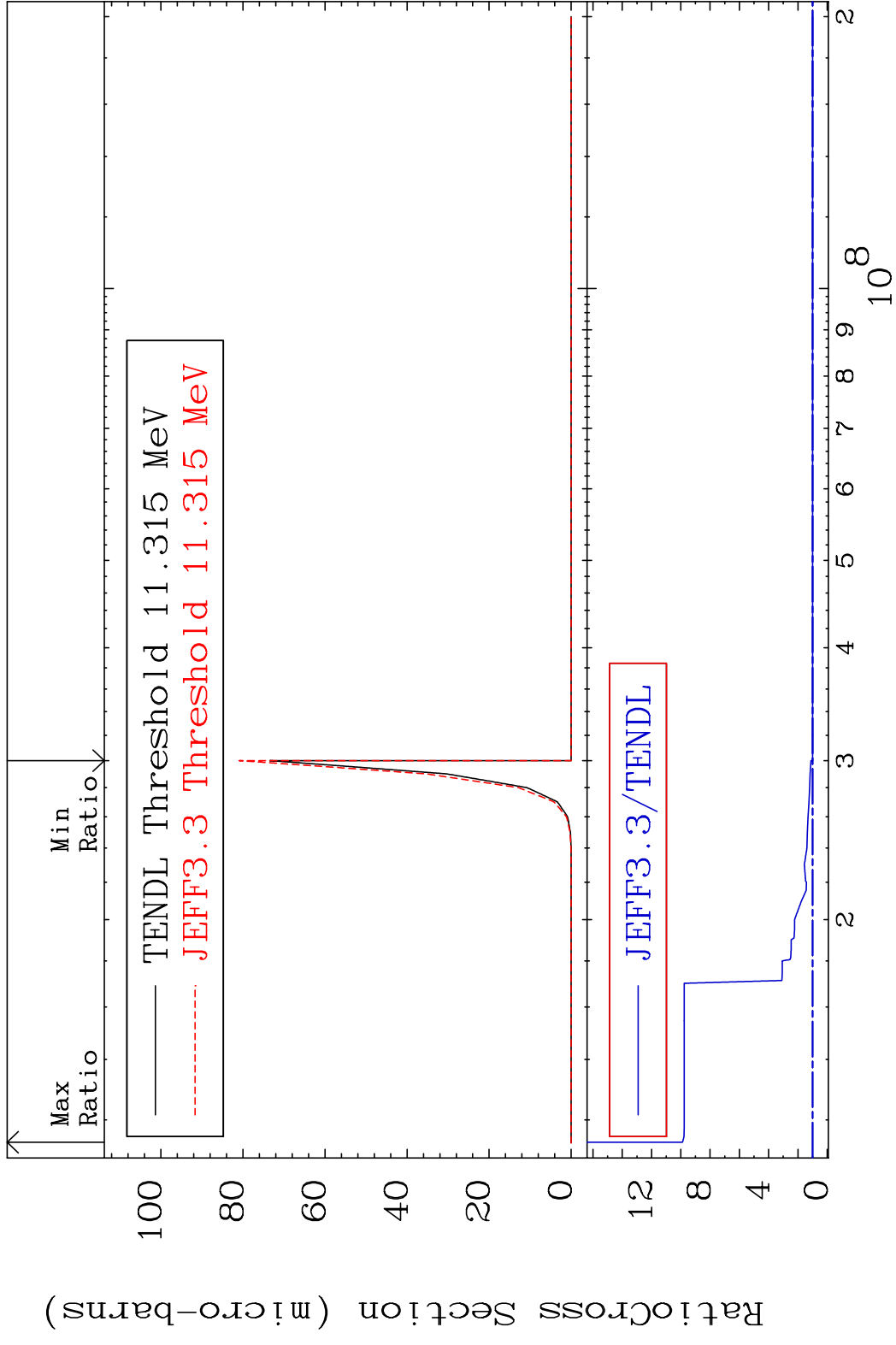
(n, n') t

70-Yb-171

Cross Section -100.0 To 1073. %



MAT 7034 (n,n') He-3 70-Yb-171
 Cross Section 0.000 To 889.5 %

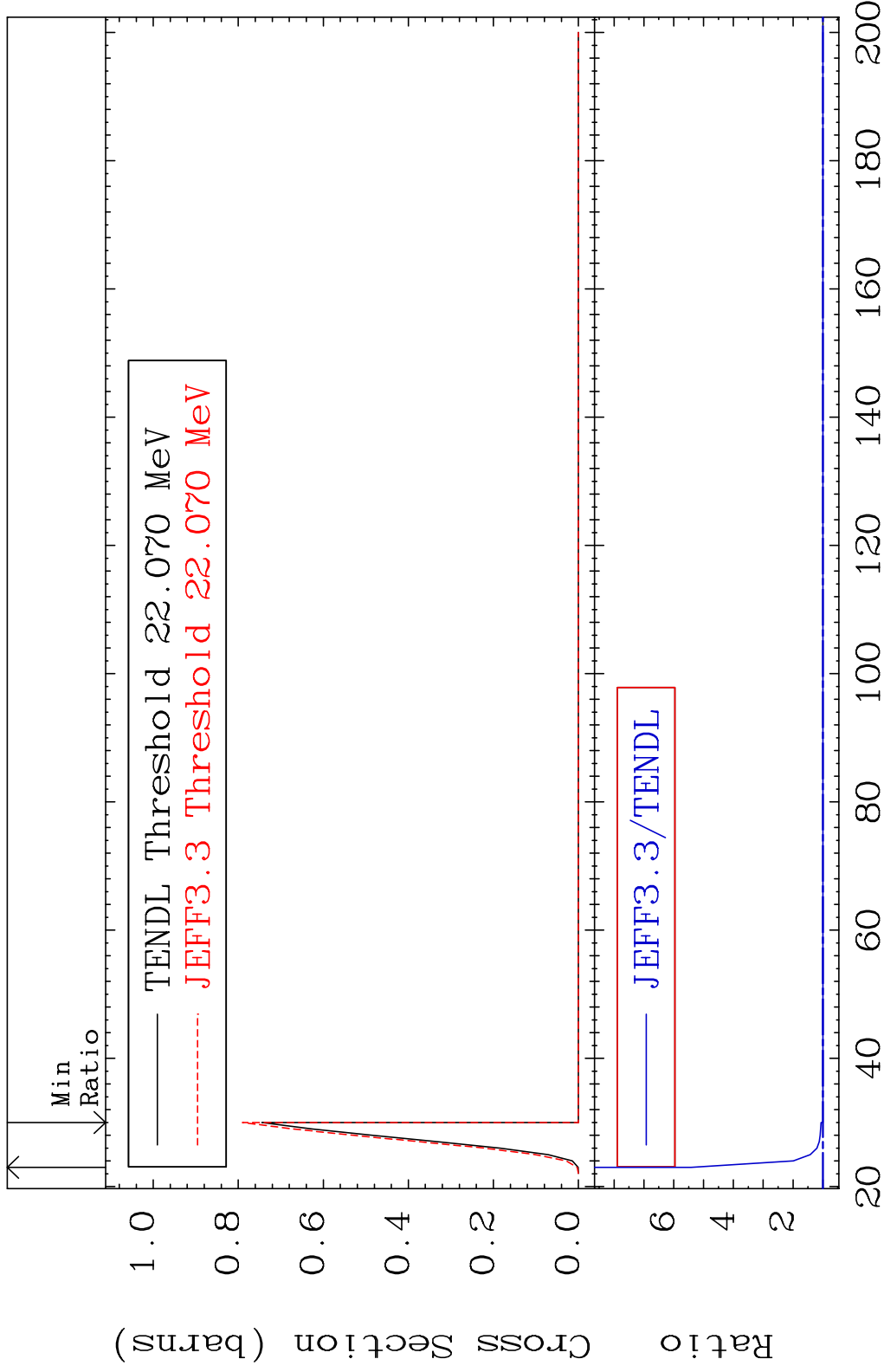


MAT 7034

(n,4n)

70-Yb-171

Cross Section 0.000 To 442.0 %

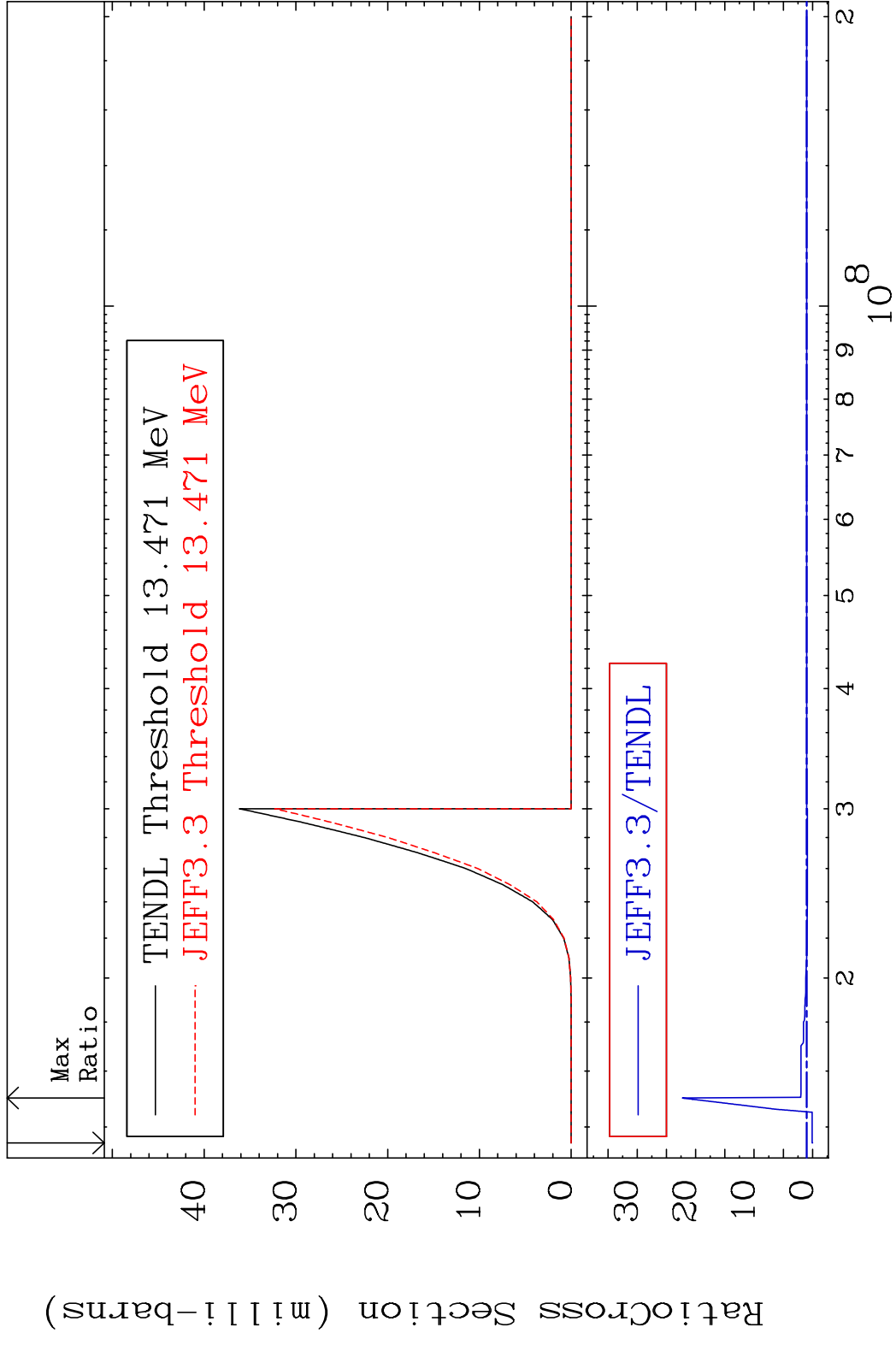


16

Incident Energy (MeV)

70-Yb-171

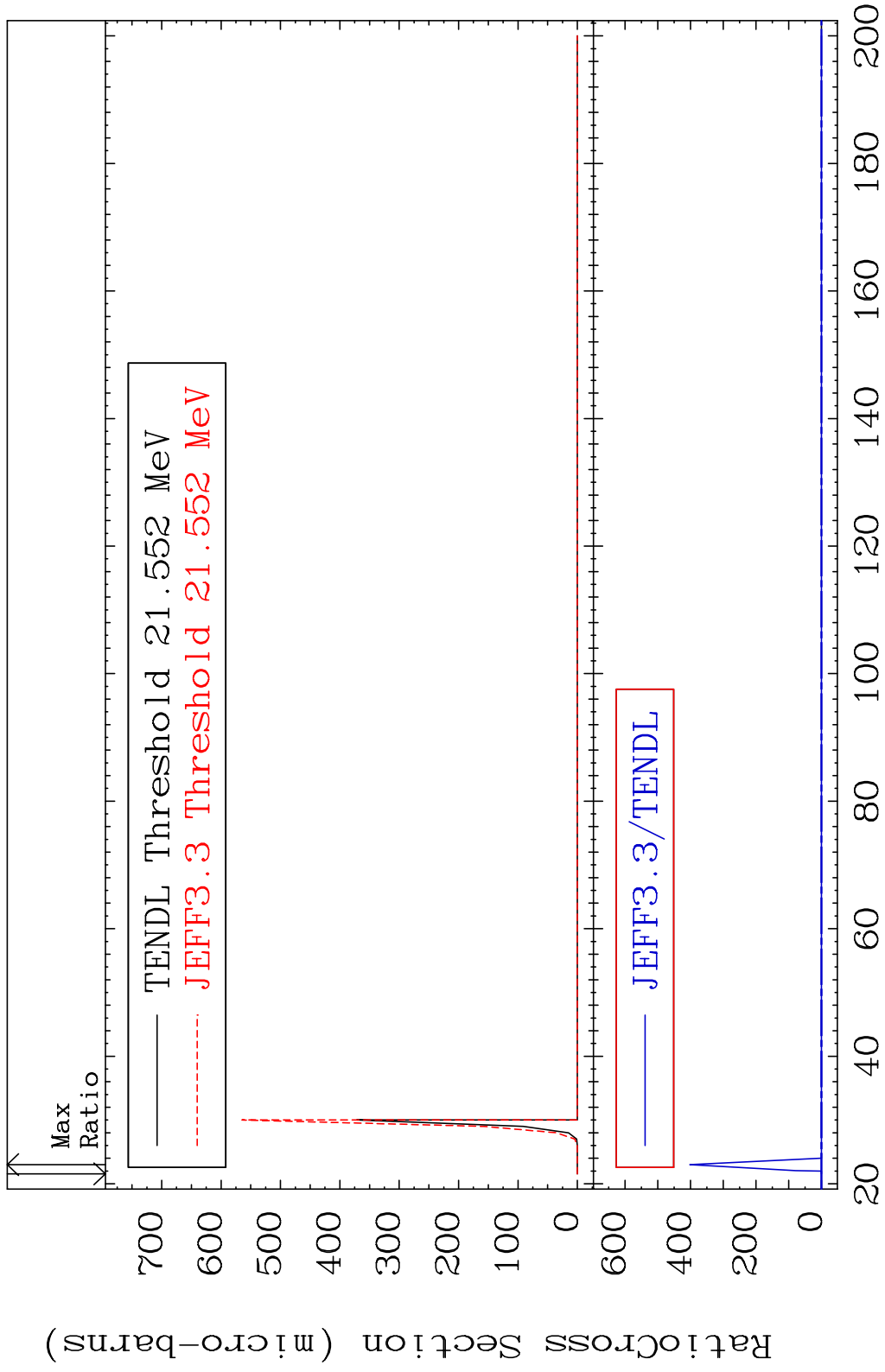
MAT 7034 (n,2n) p 70-Yb-171
 Cross Section -100.0 To 2127. %



MAT 7034

(n,3n) p 70-Yb-171

Cross Section -100.0 To 9999. %



18

Incident Energy (MeV)

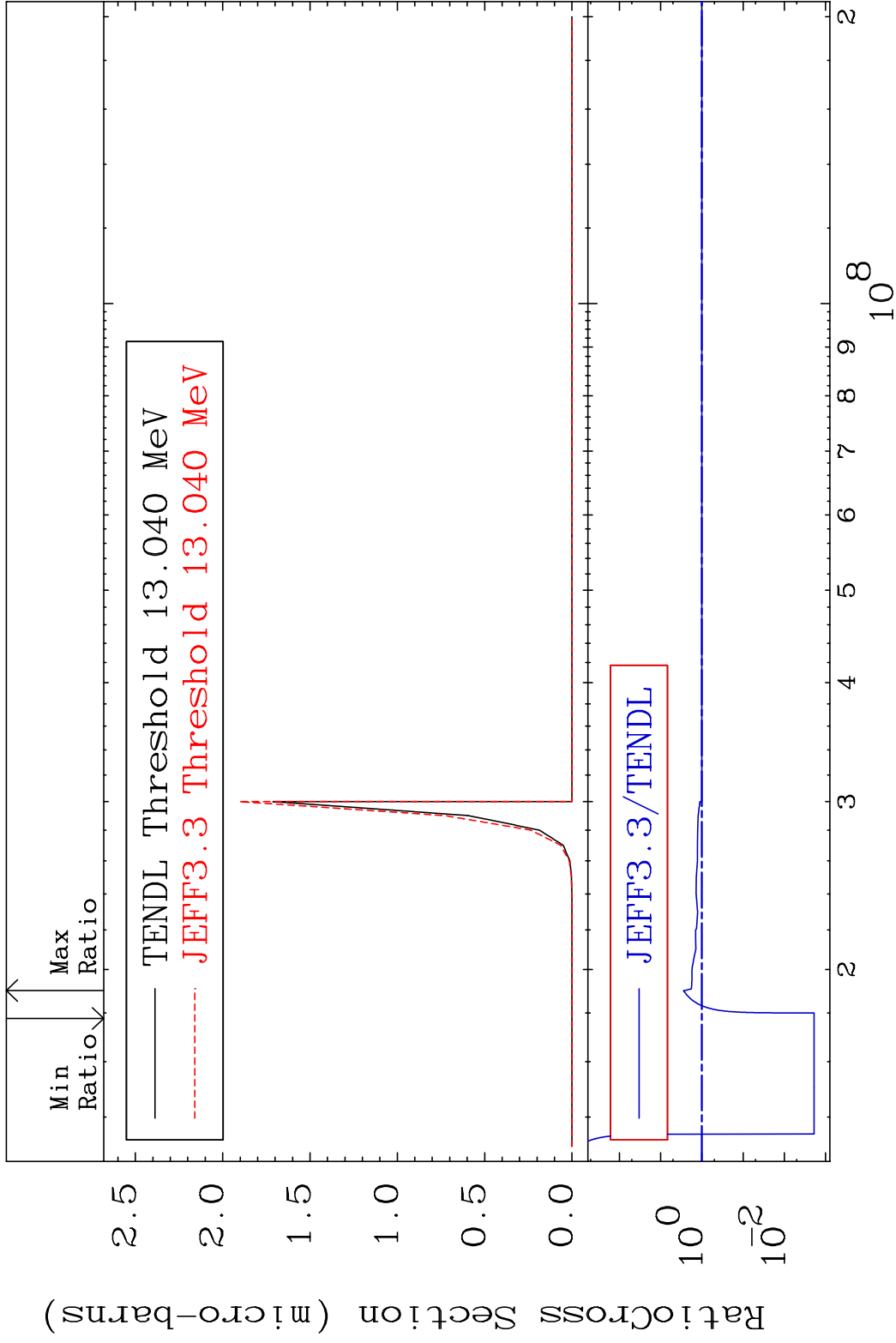
70-Yb-171

MAT 7034

(n,2n) p

70-Yb-171

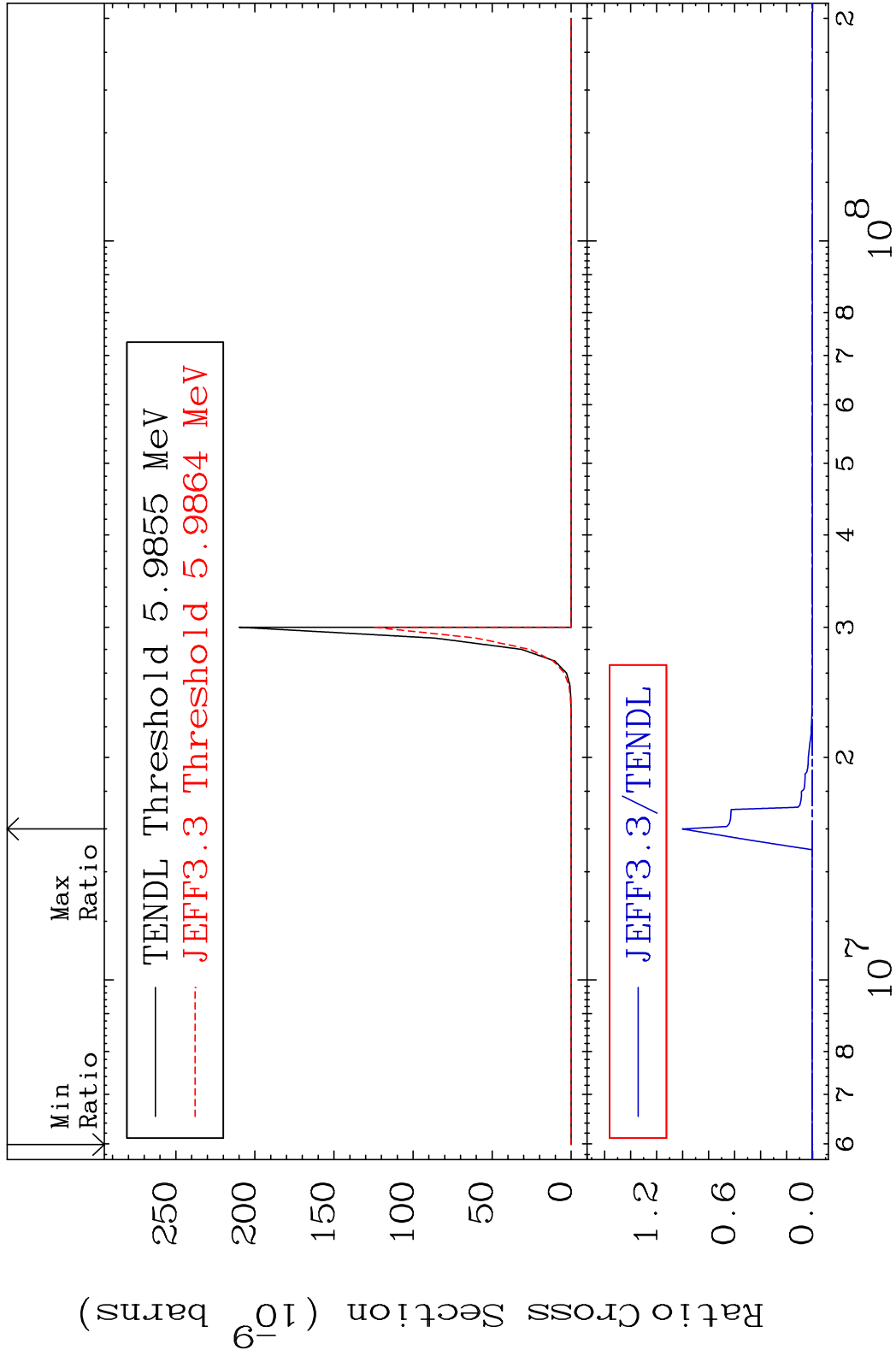
Cross Section -99.81 To 179.4 %



MAT 7034

(n, n') p α 70-Yb-171

Cross Section -100.0 To 9999. %

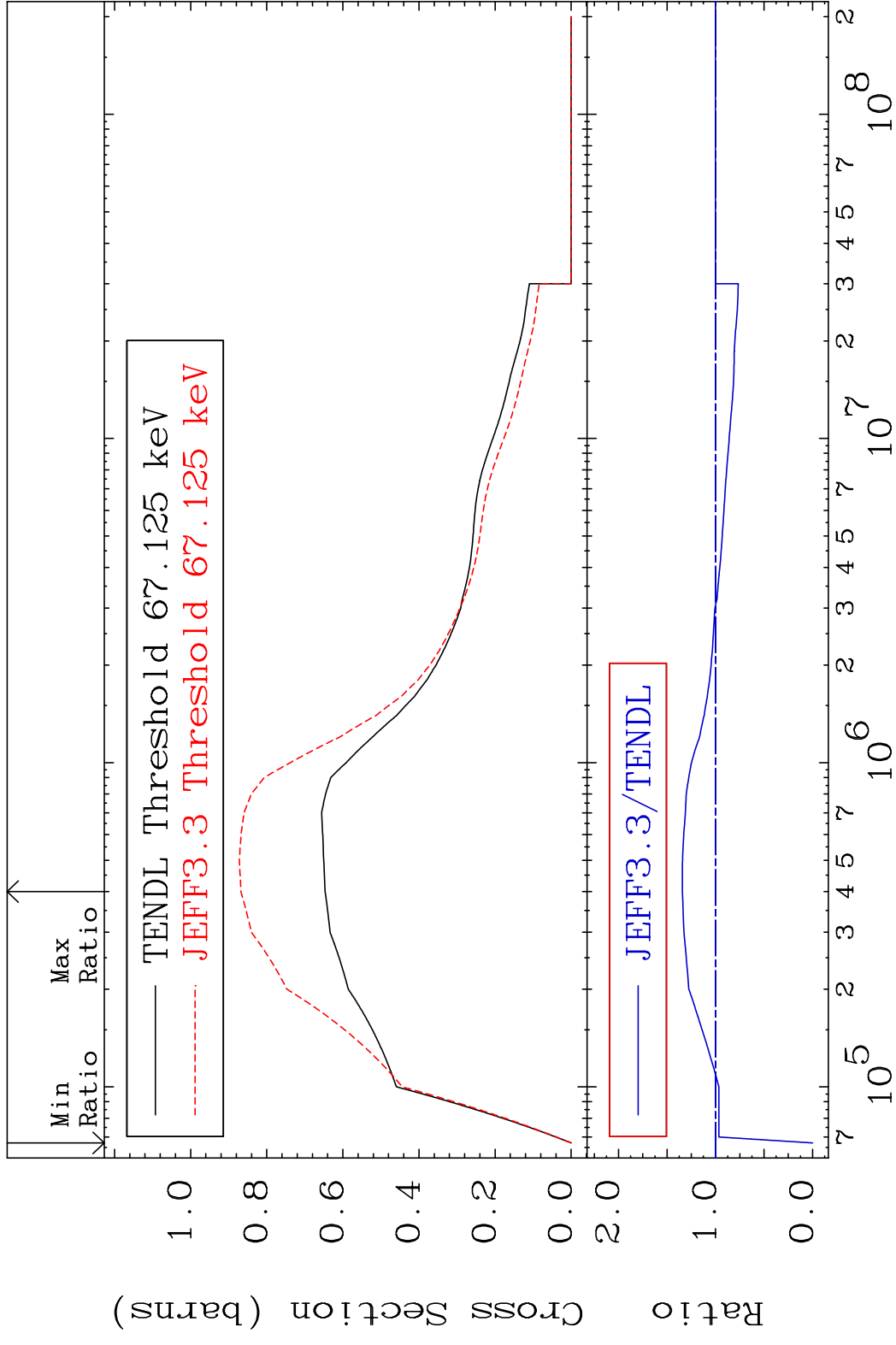


20

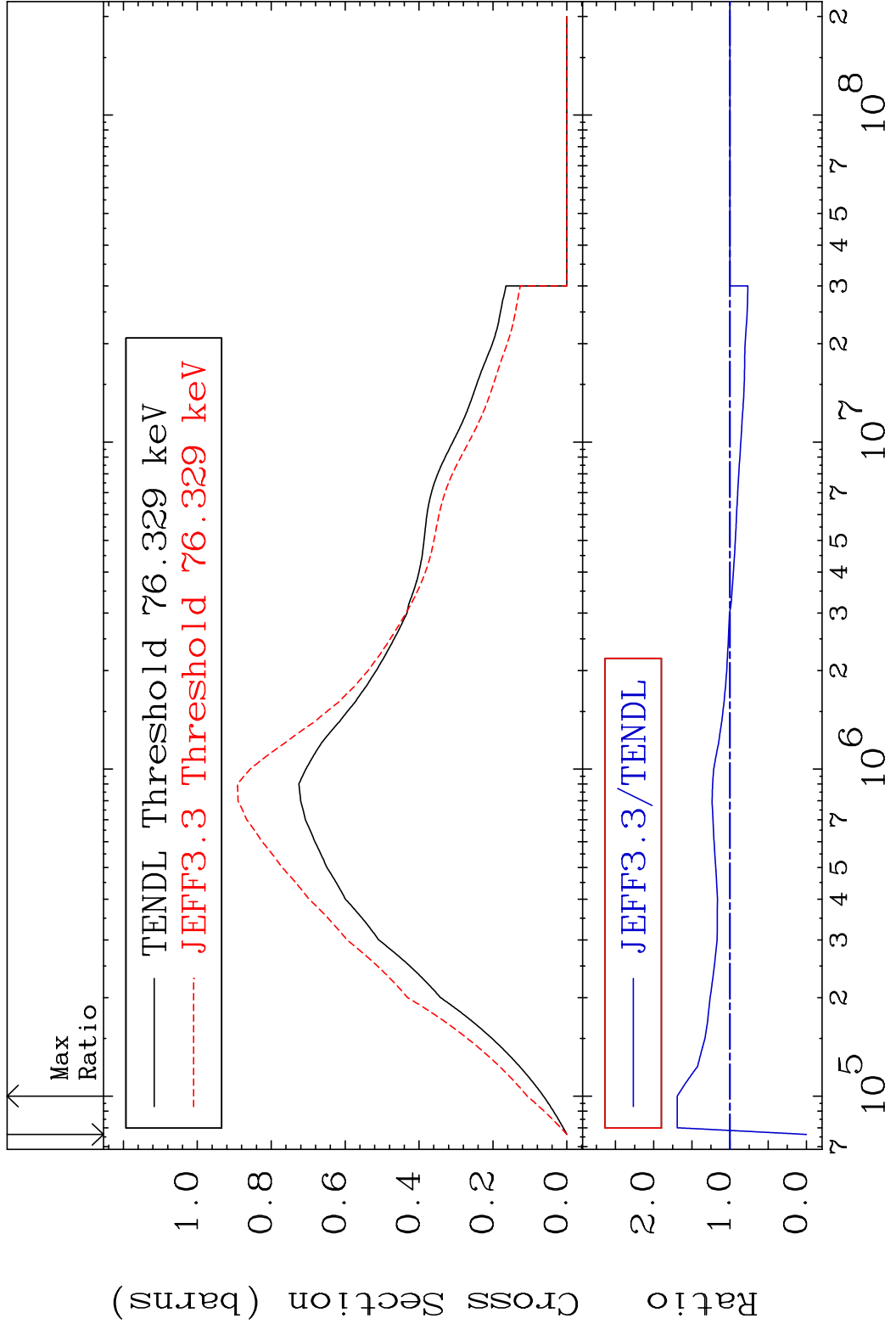
Incident Energy (eV)

70-Yb-171

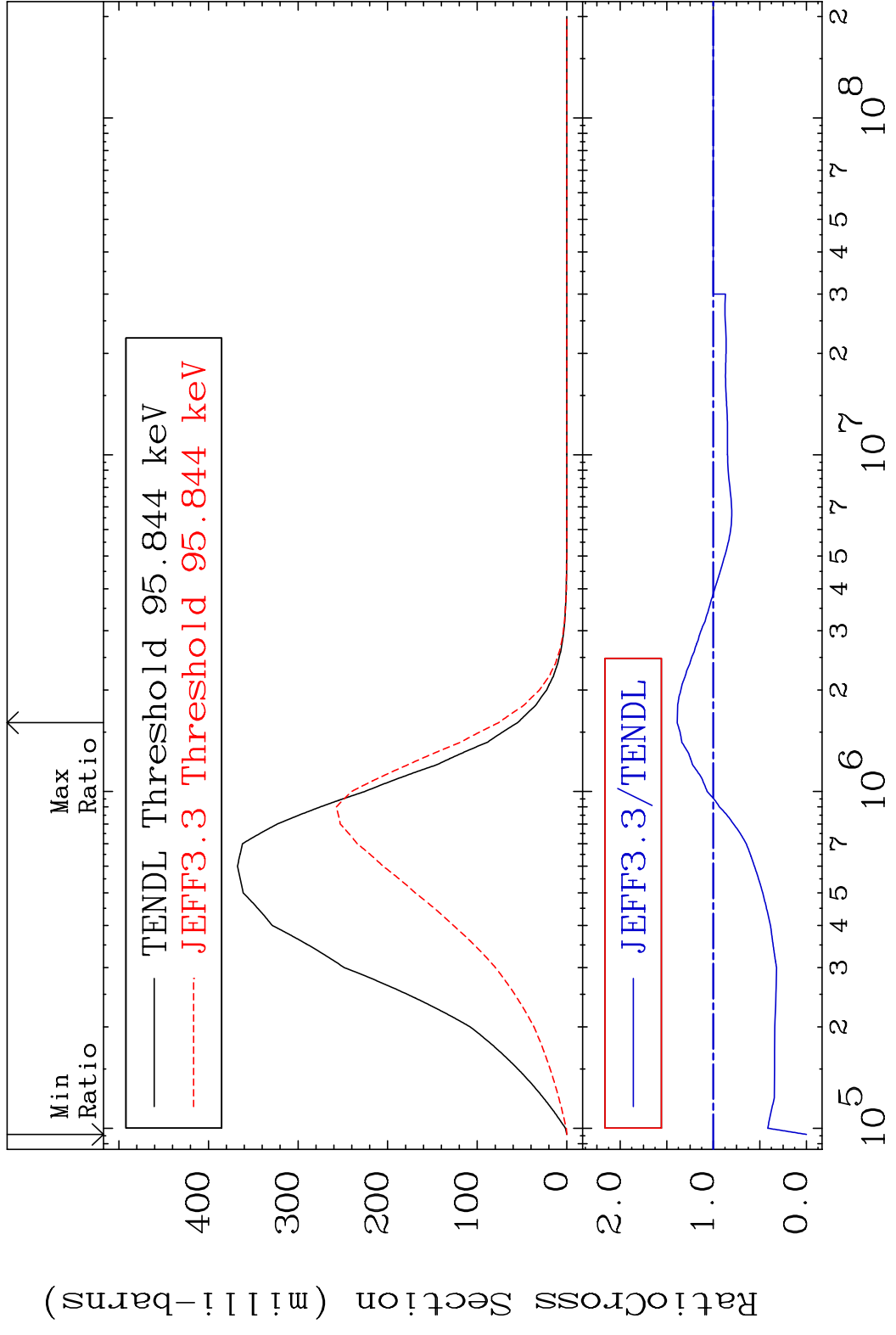
MAT 7034 MT= 51 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 34.24 %



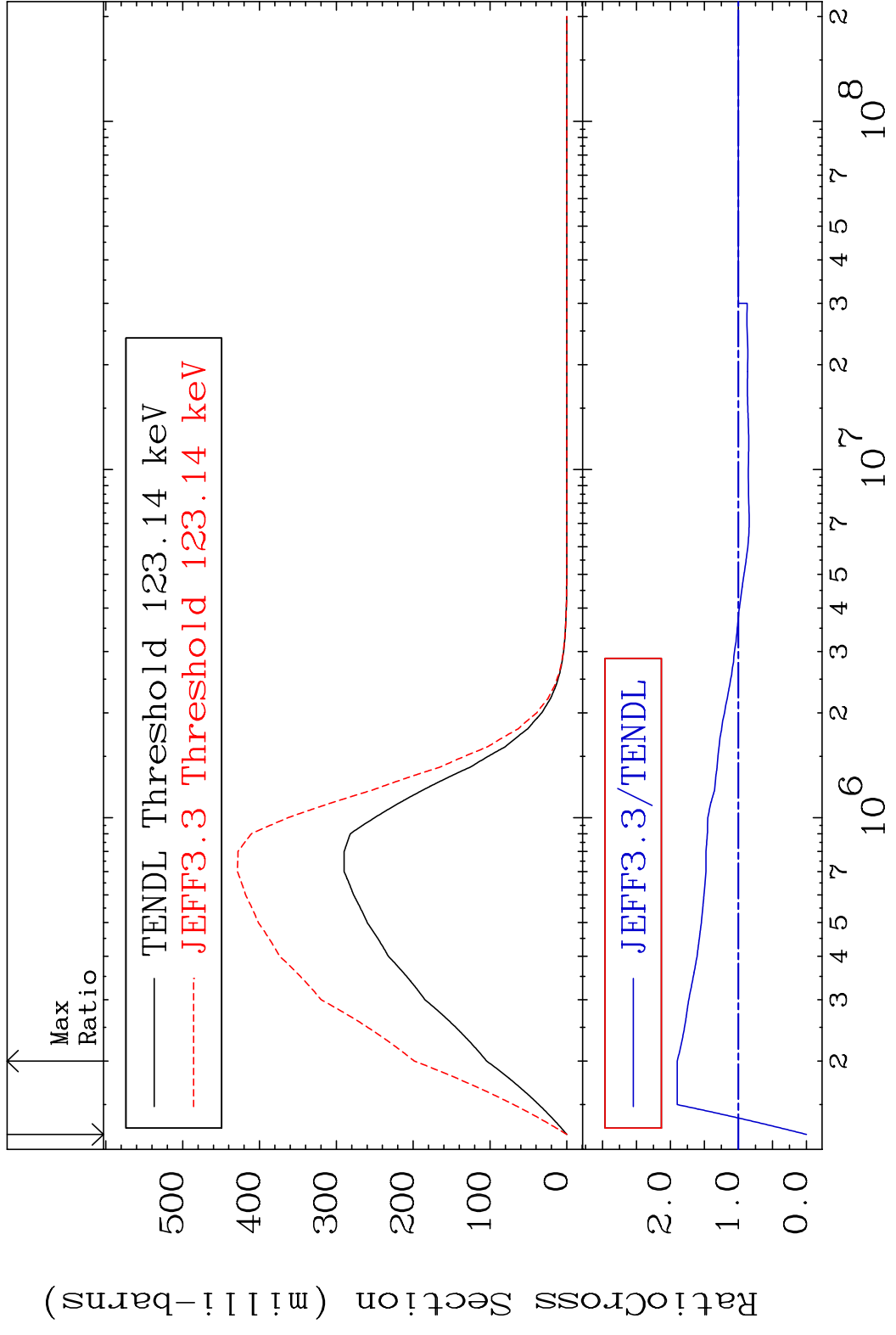
MAT 7034 MT= 52 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 69.21 %



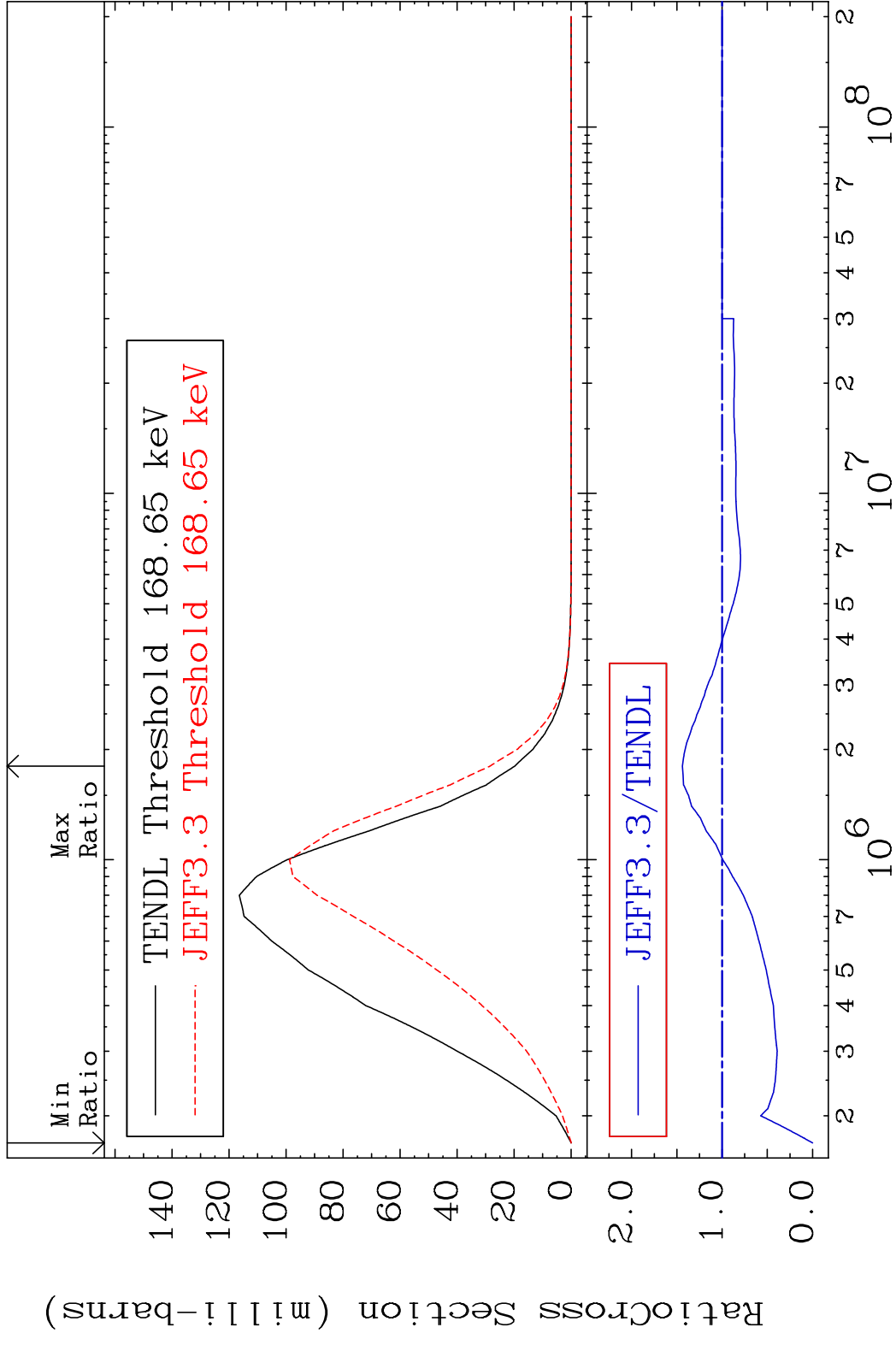
MAT 7034 MT= 53 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 38.77 %



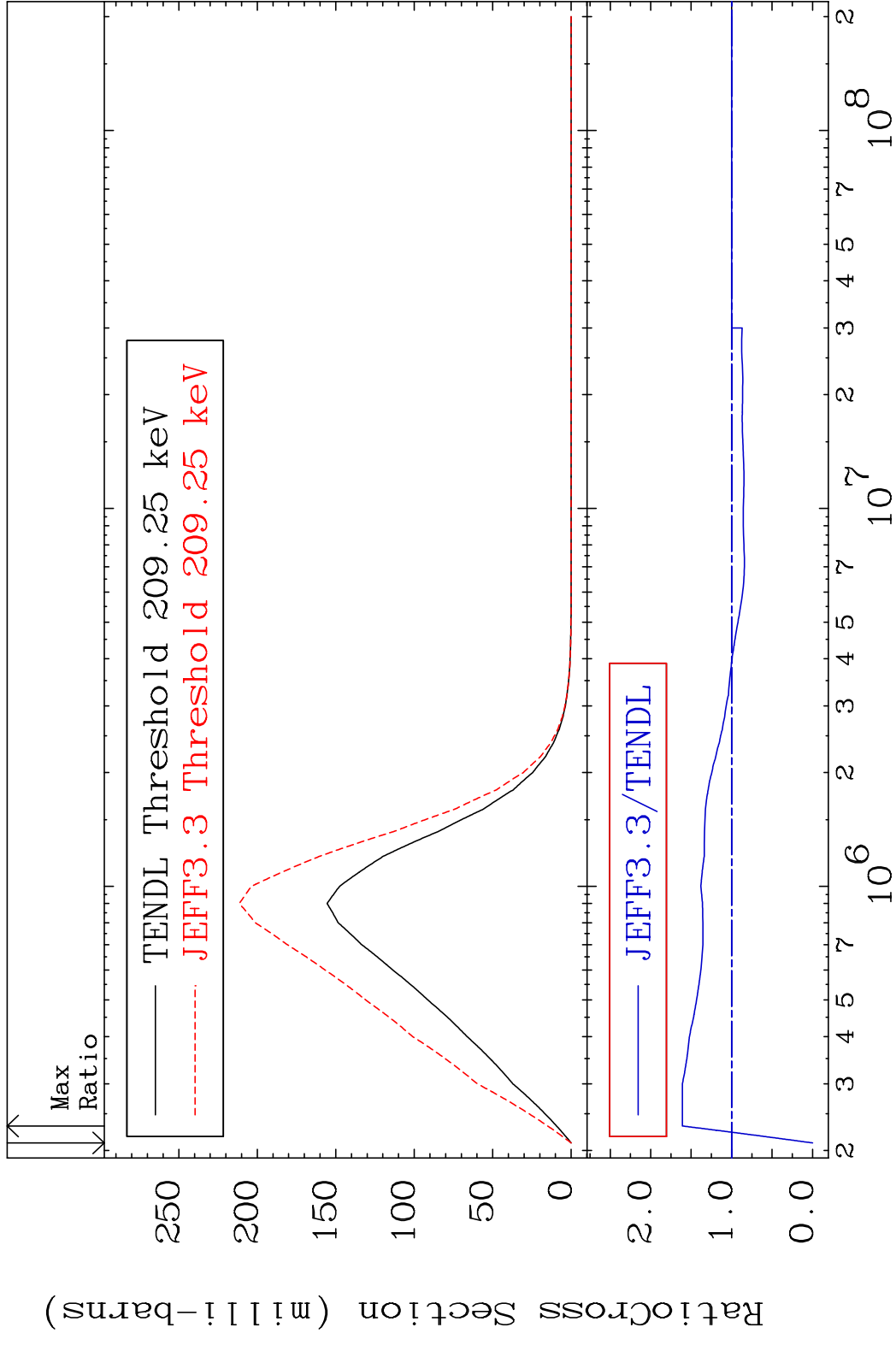
MAT 7034 MT= 54 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 90.12 %



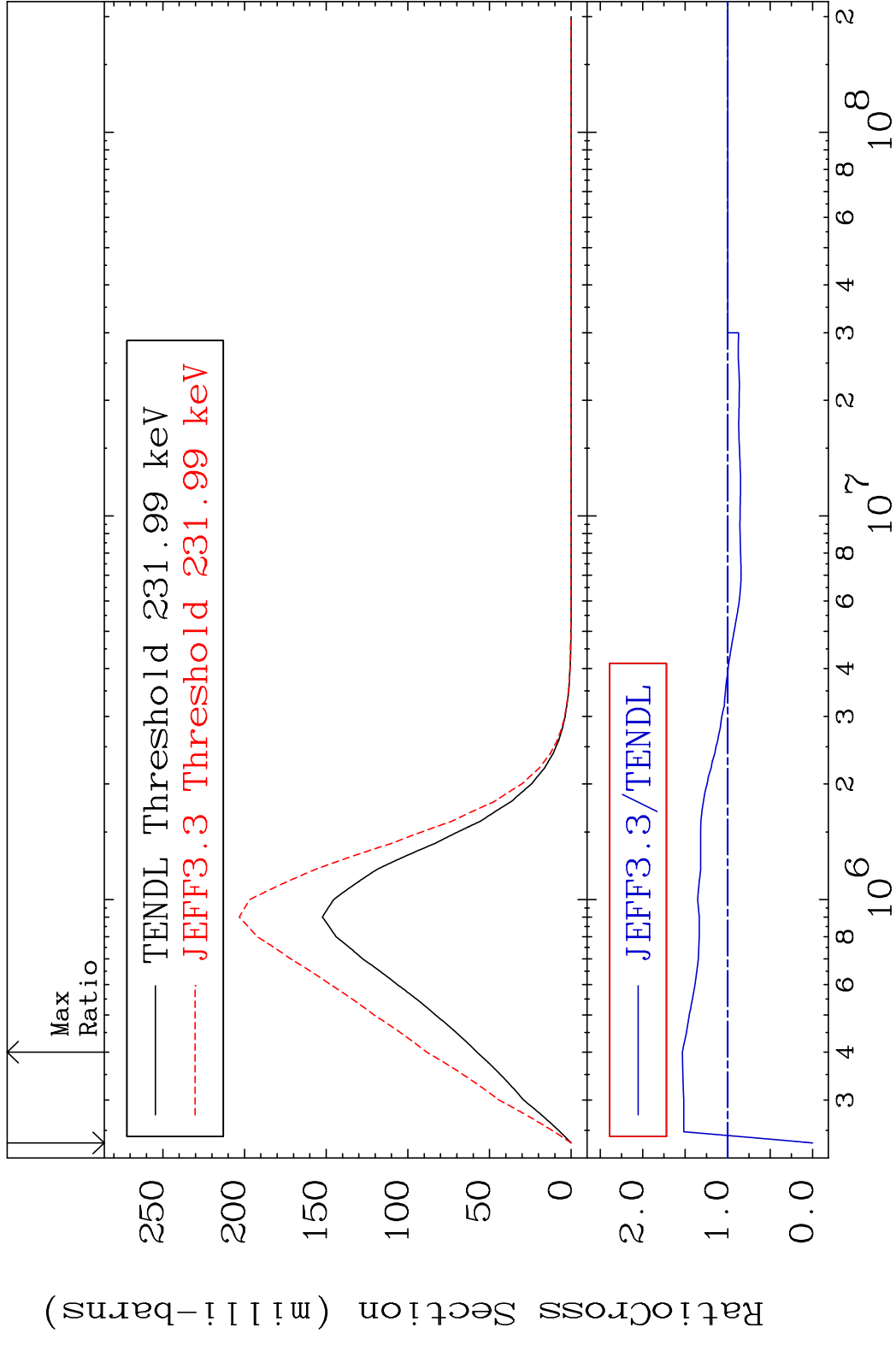
MAT 7034 MT= 55 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 43.92 %



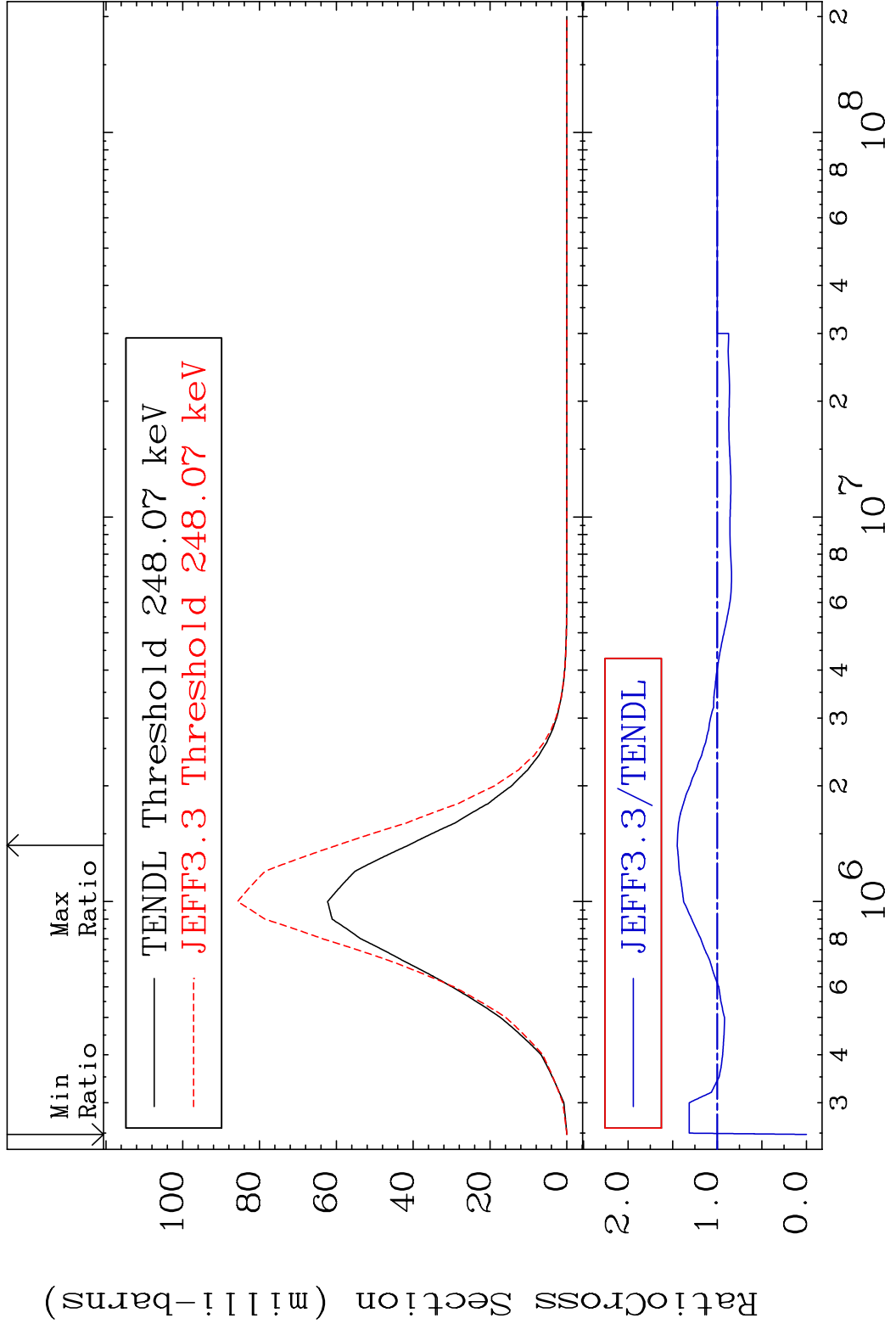
MAT 7034 MT= 56 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 60.88 %



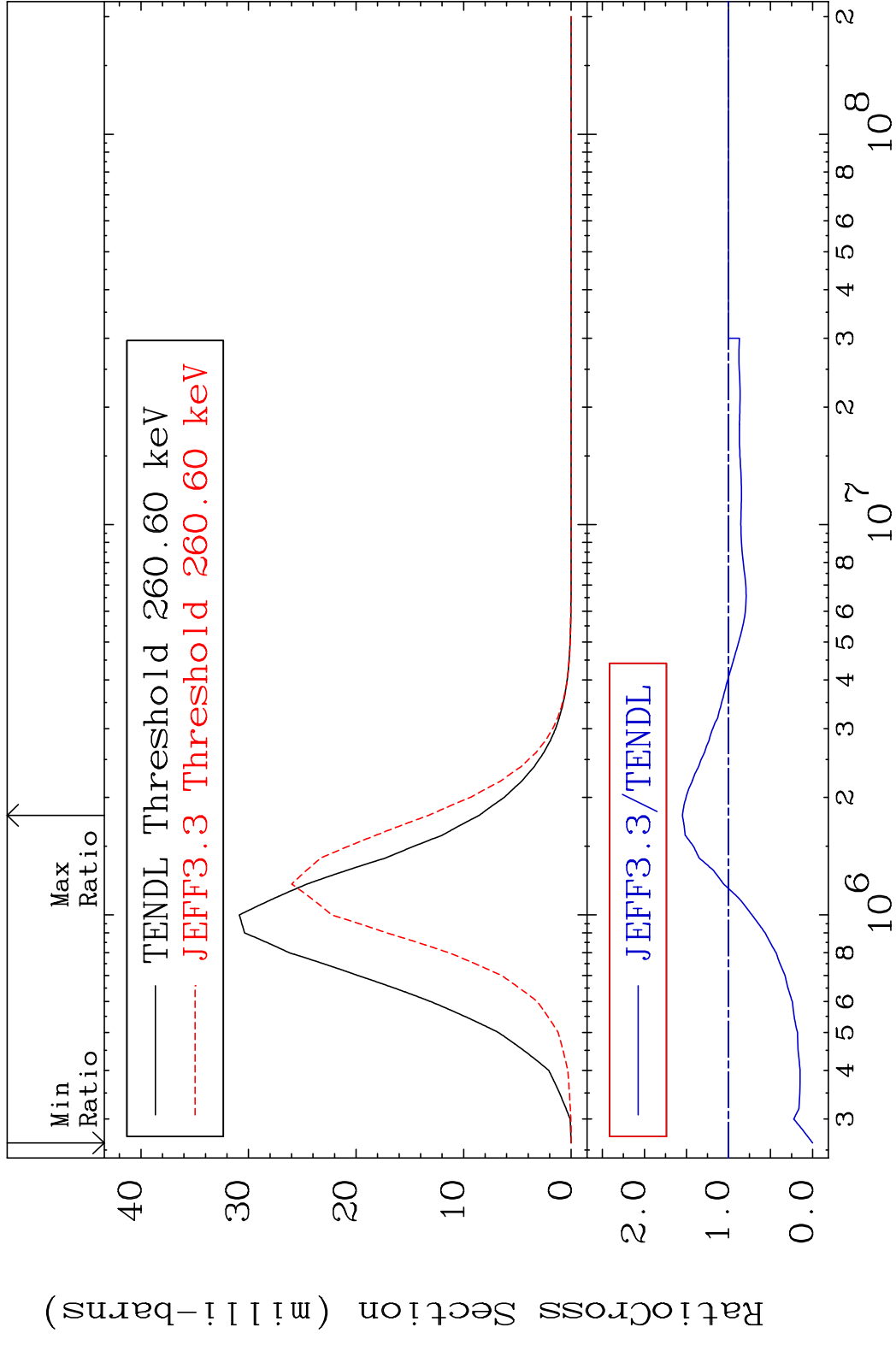
MAT 7034 MT= 57 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 53.39 %



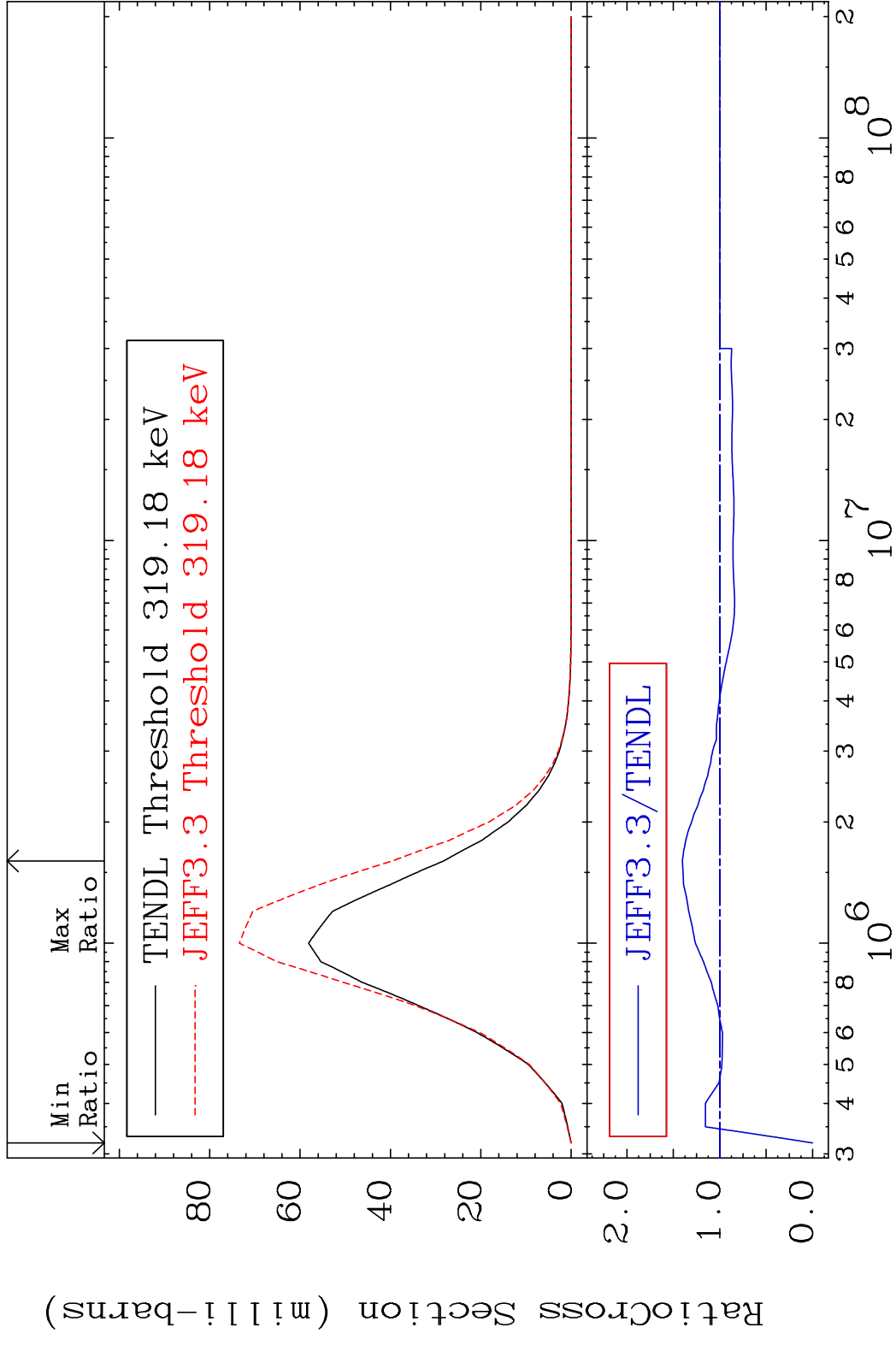
MAT 7034 MT= 58 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 44.90 %



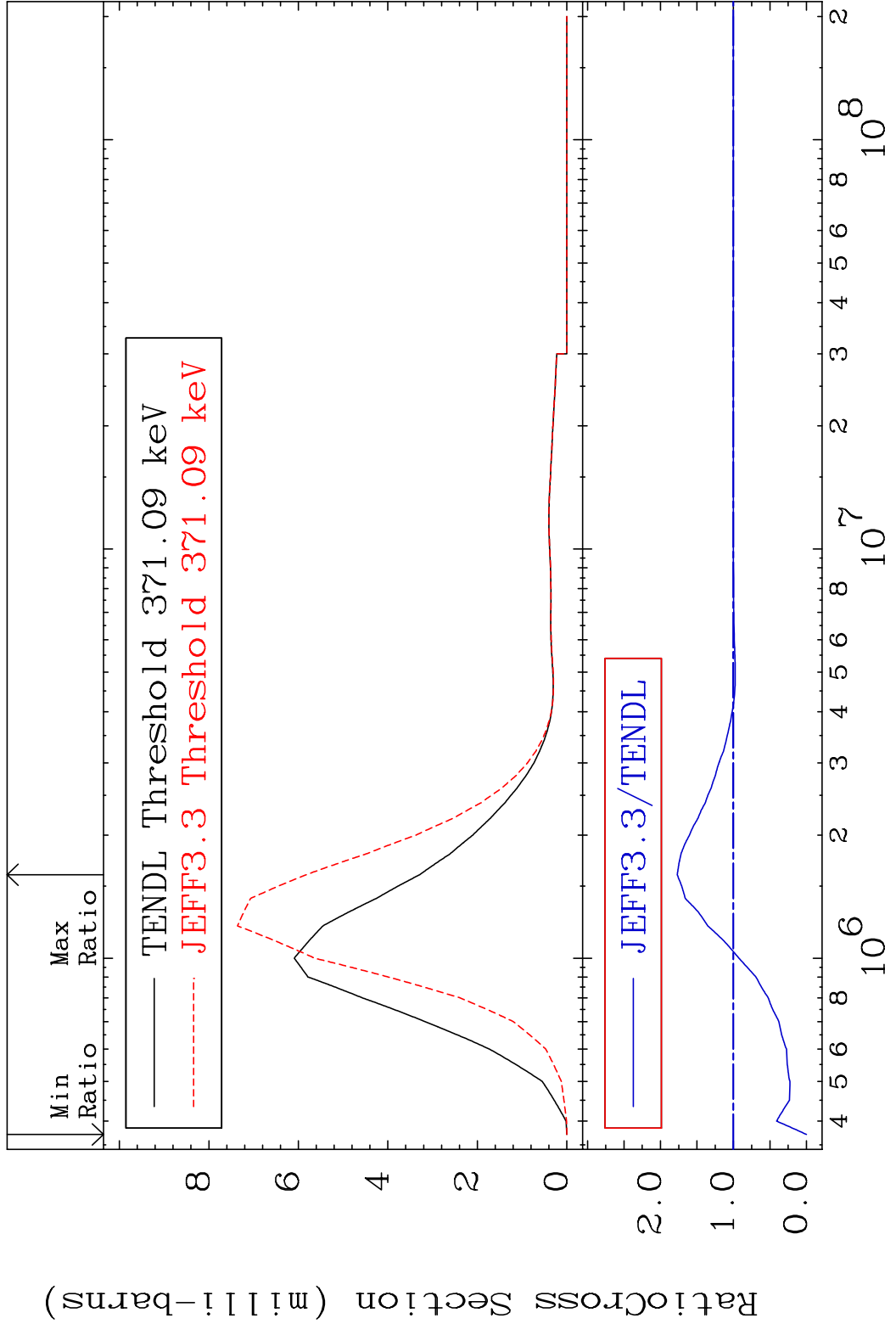
MAT 7034 MT= 59 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 54.88 %



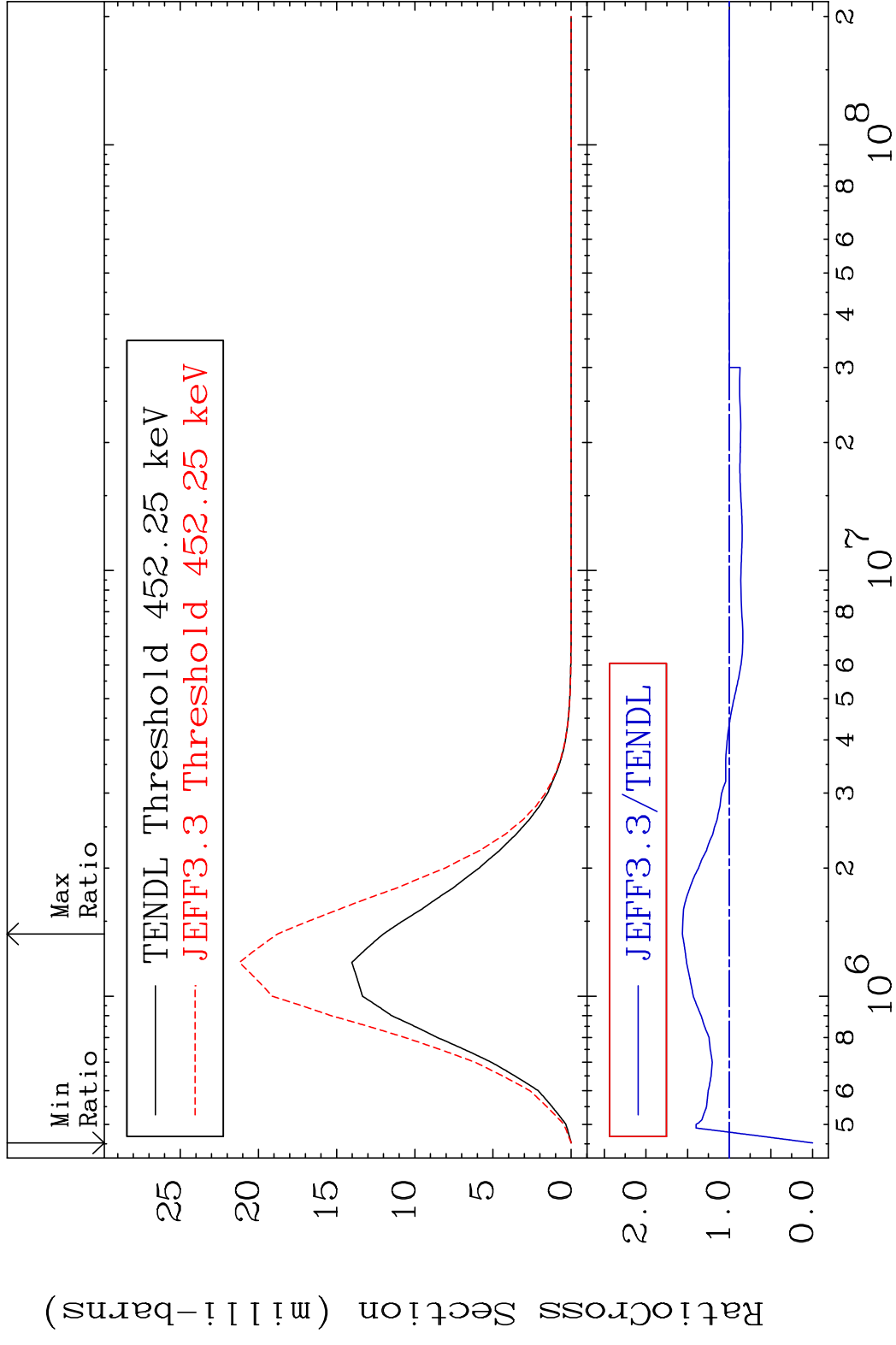
MAT 7034 MT= 60 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 40.32 %



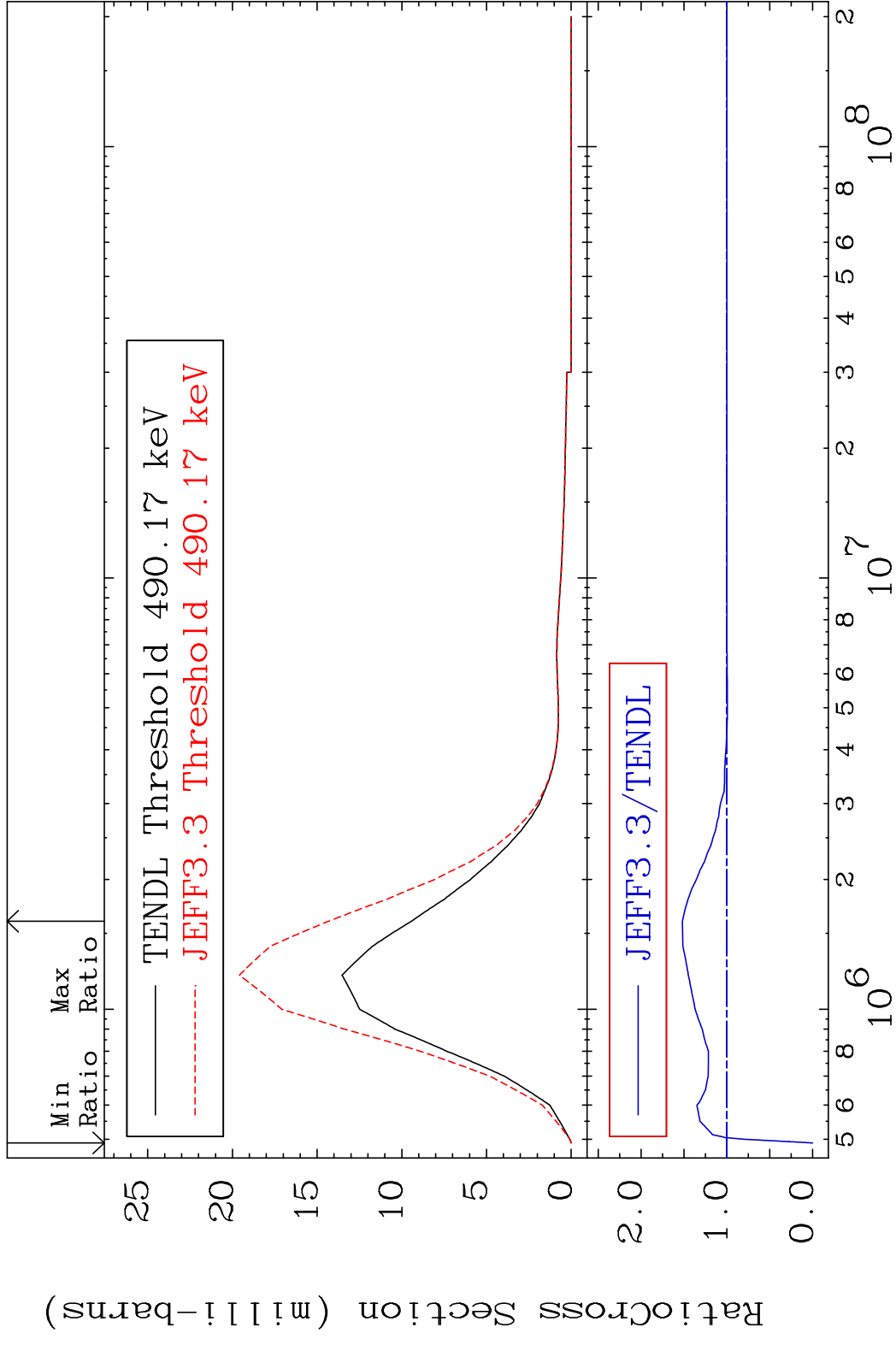
MAT 7034 MT= 61 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 77.10 %



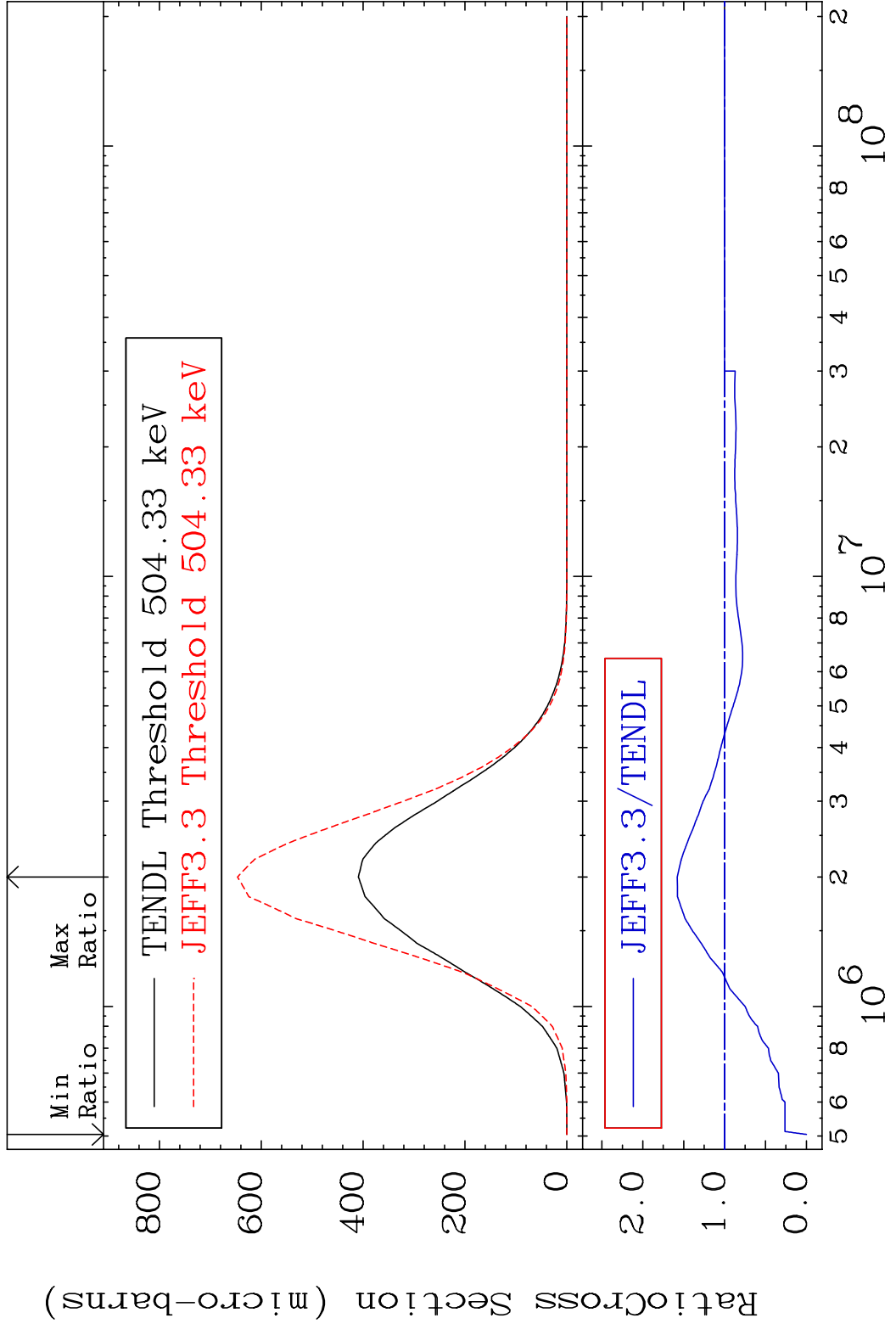
MAT 7034 MT= 62 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 56.35 %



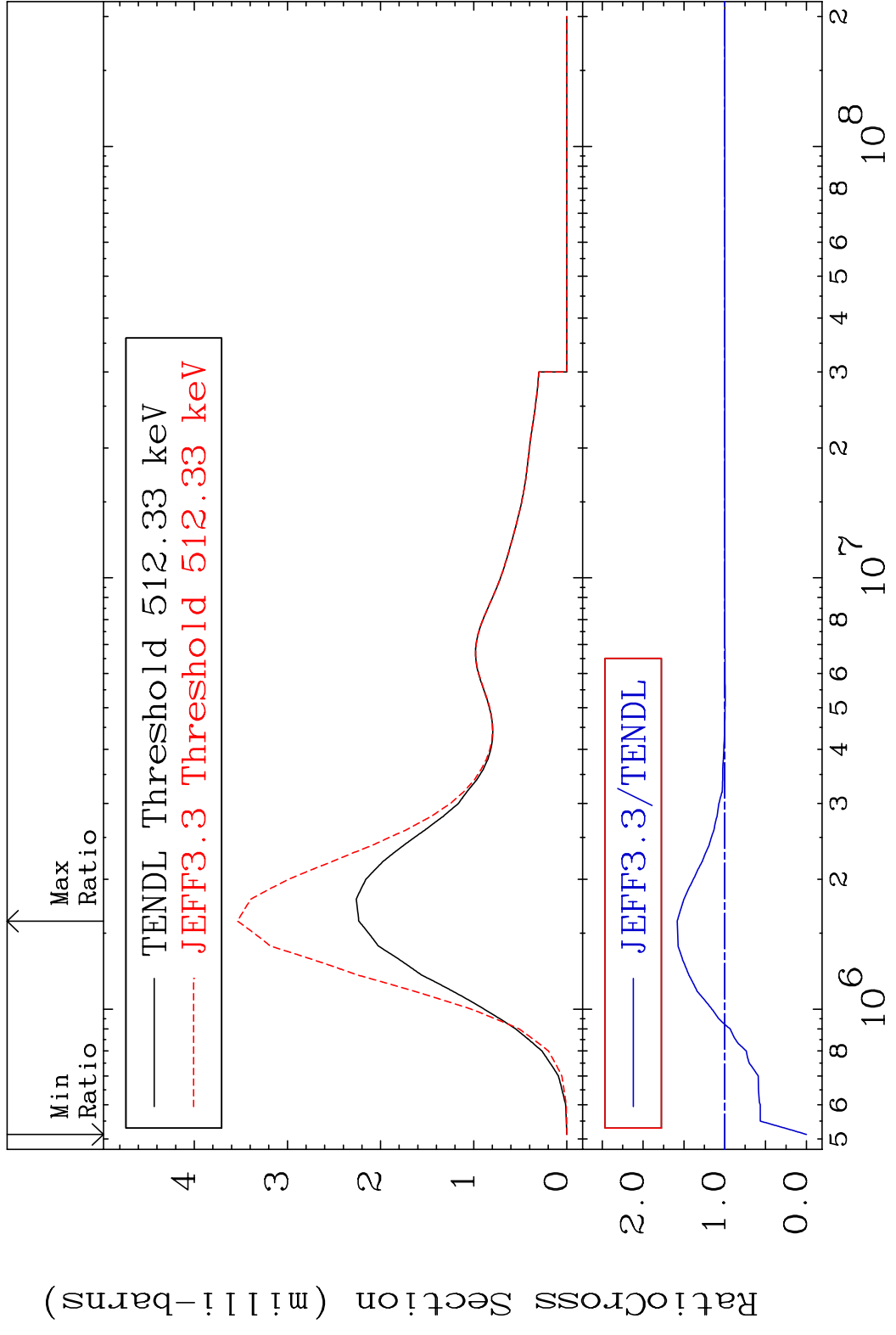
MAT 7034 MT= 63 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 51.82 %



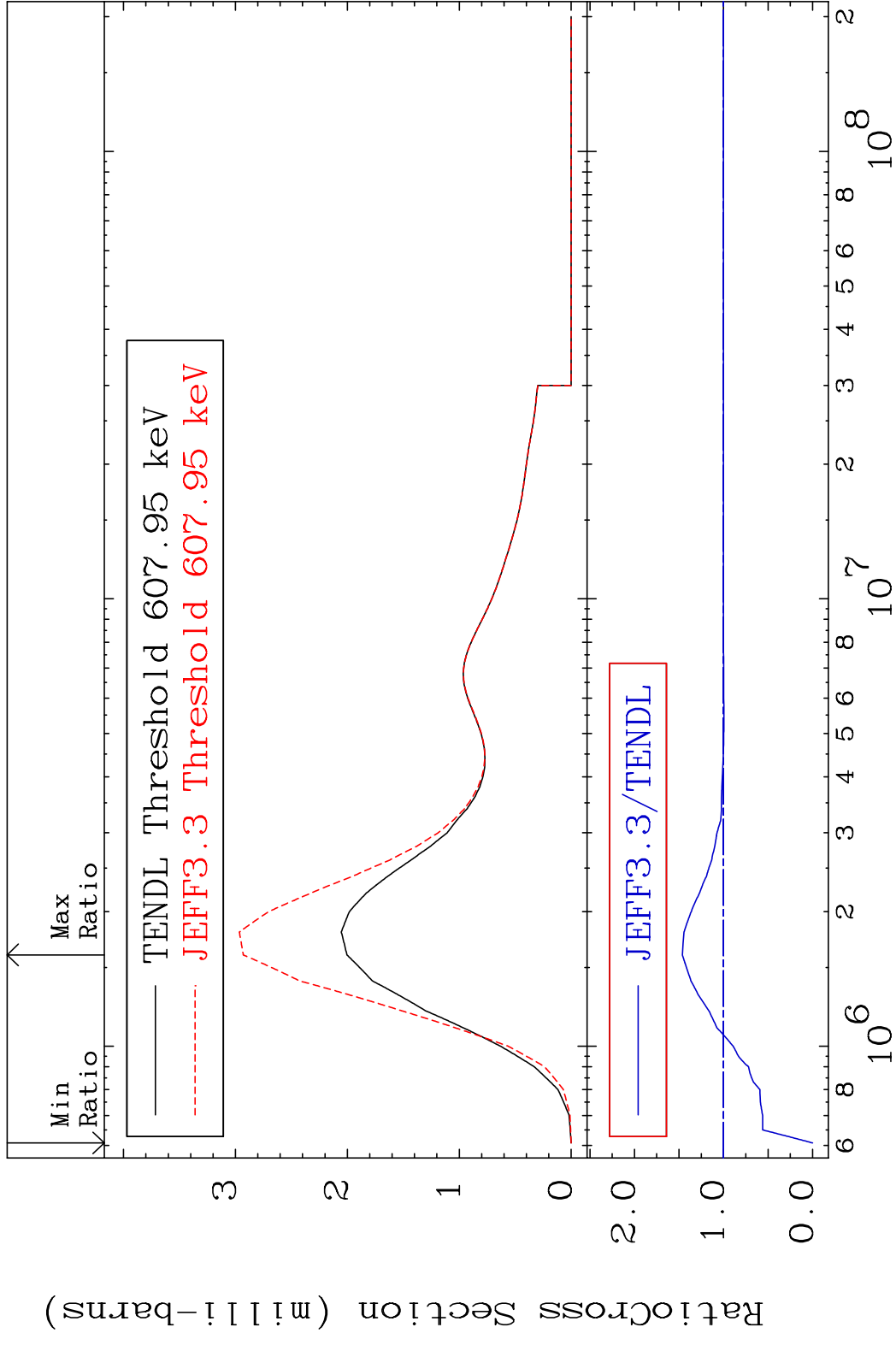
MAT 7034 MT= 64 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 57.99 %



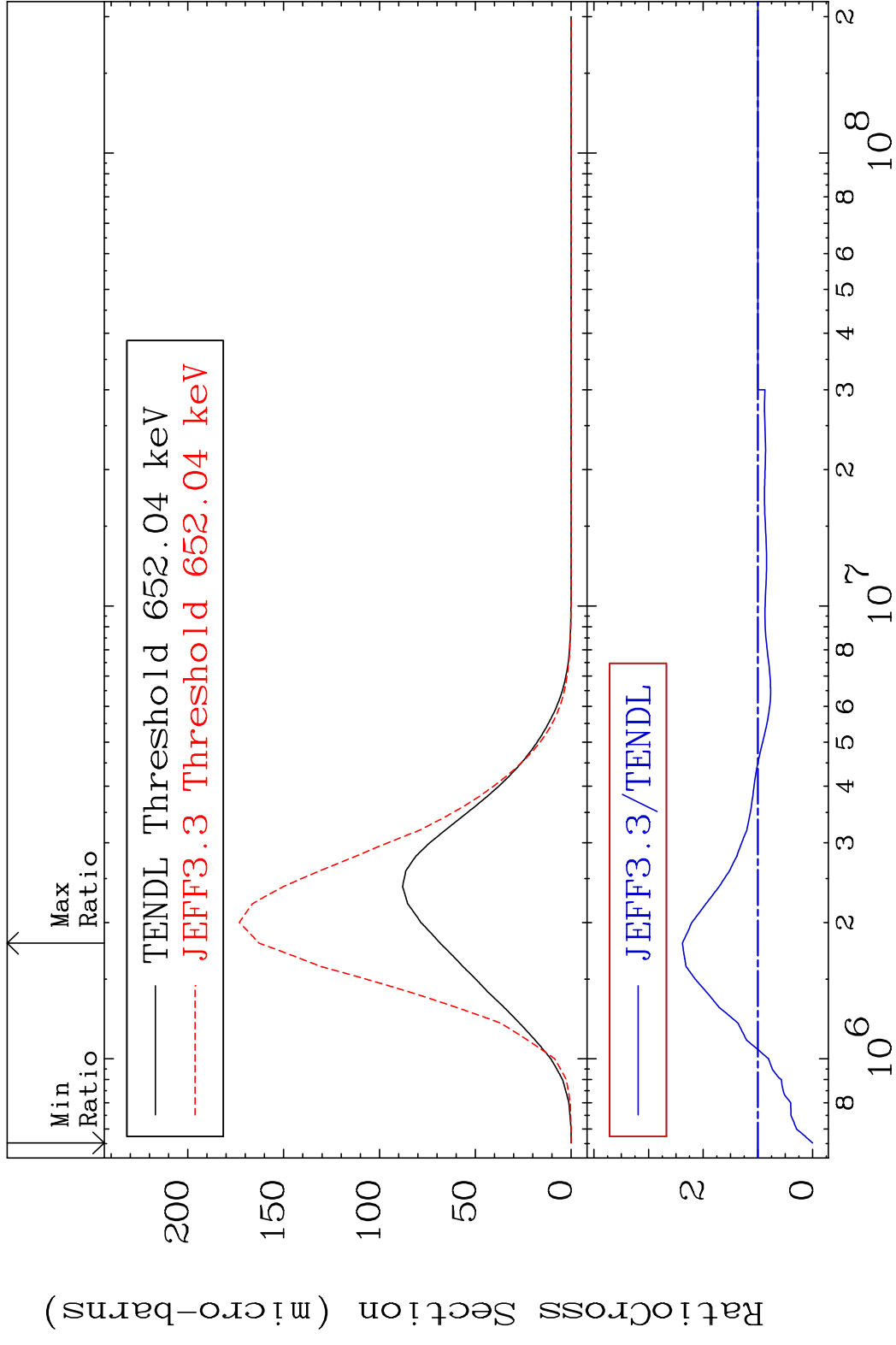
MAT 7034 MT= 65 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 58.30 %



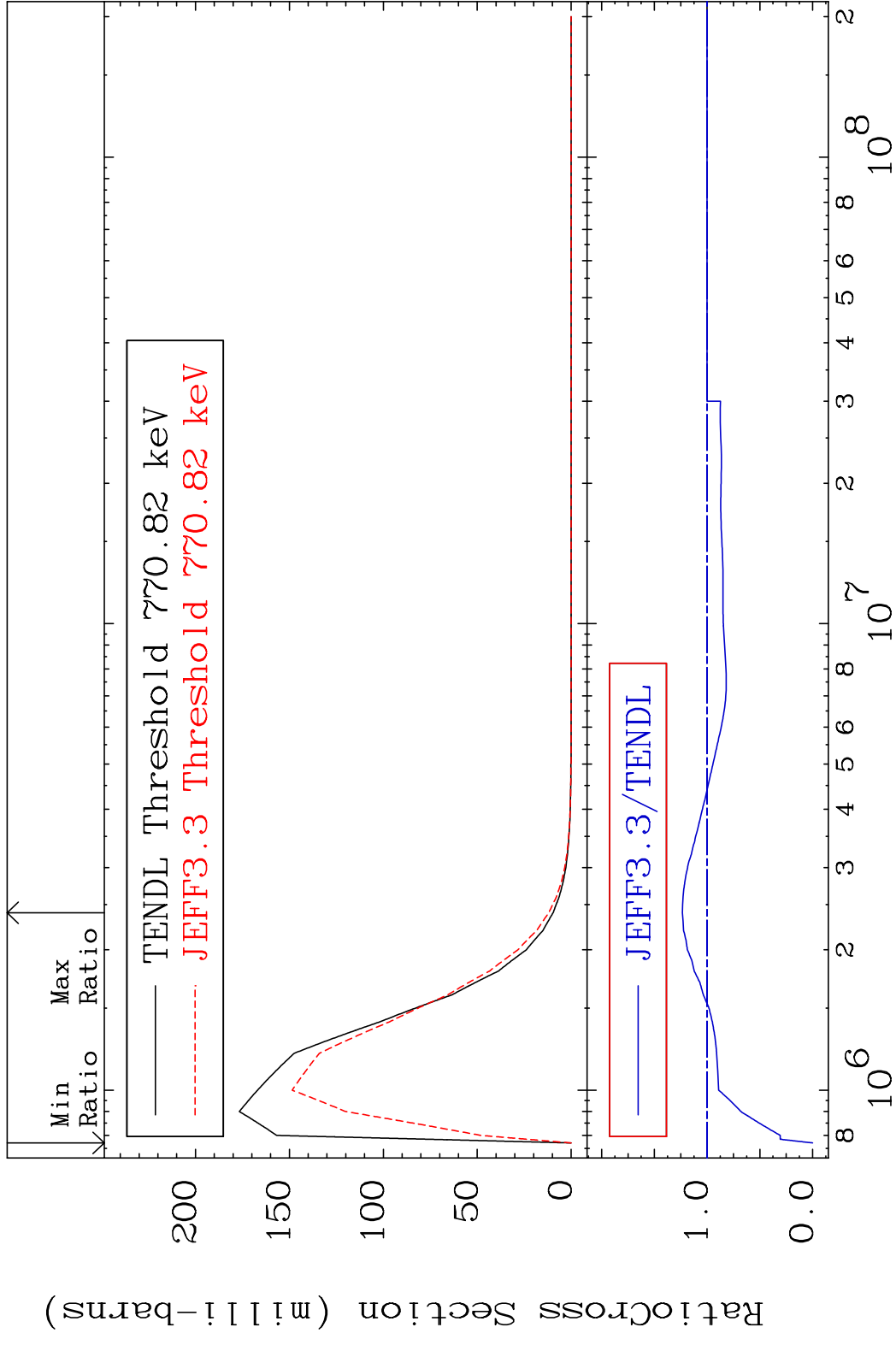
MAT 7034 MT= 66 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 46.22 %



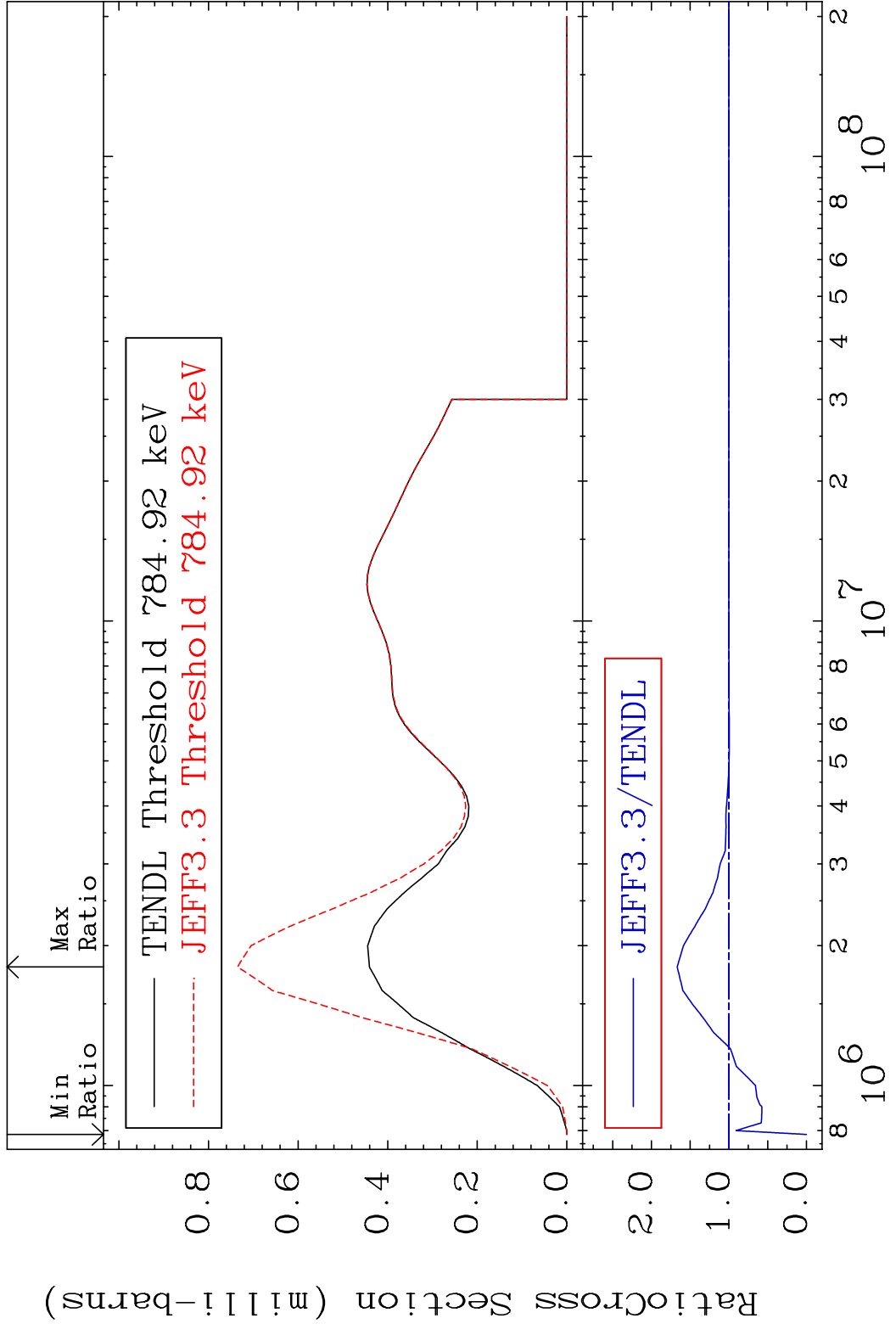
MAT 7034 MT= 67 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 138.2 %



MAT 7034 MT= 68 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 23.49 %

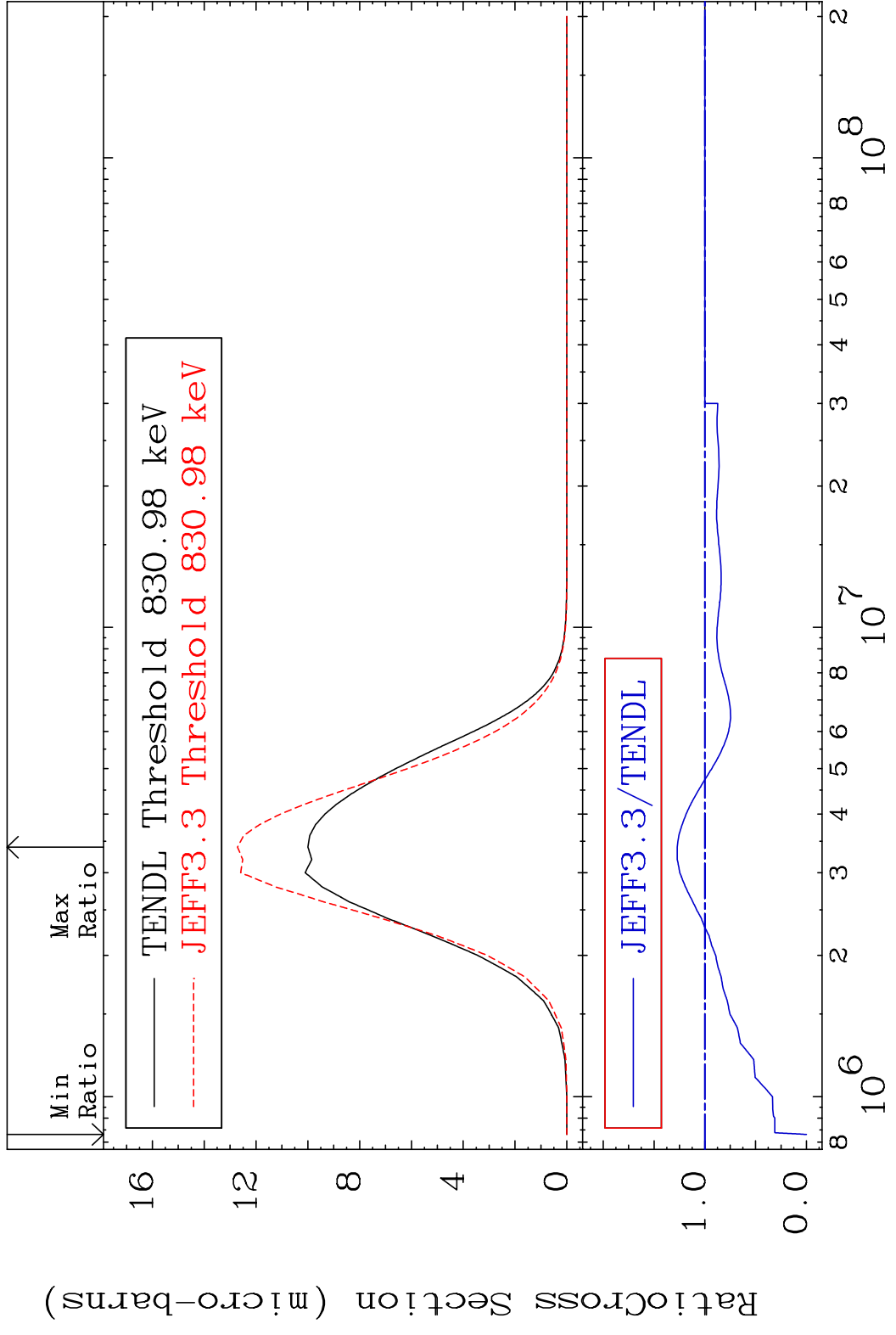


MAT 7034 MT= 69 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 66.75 %

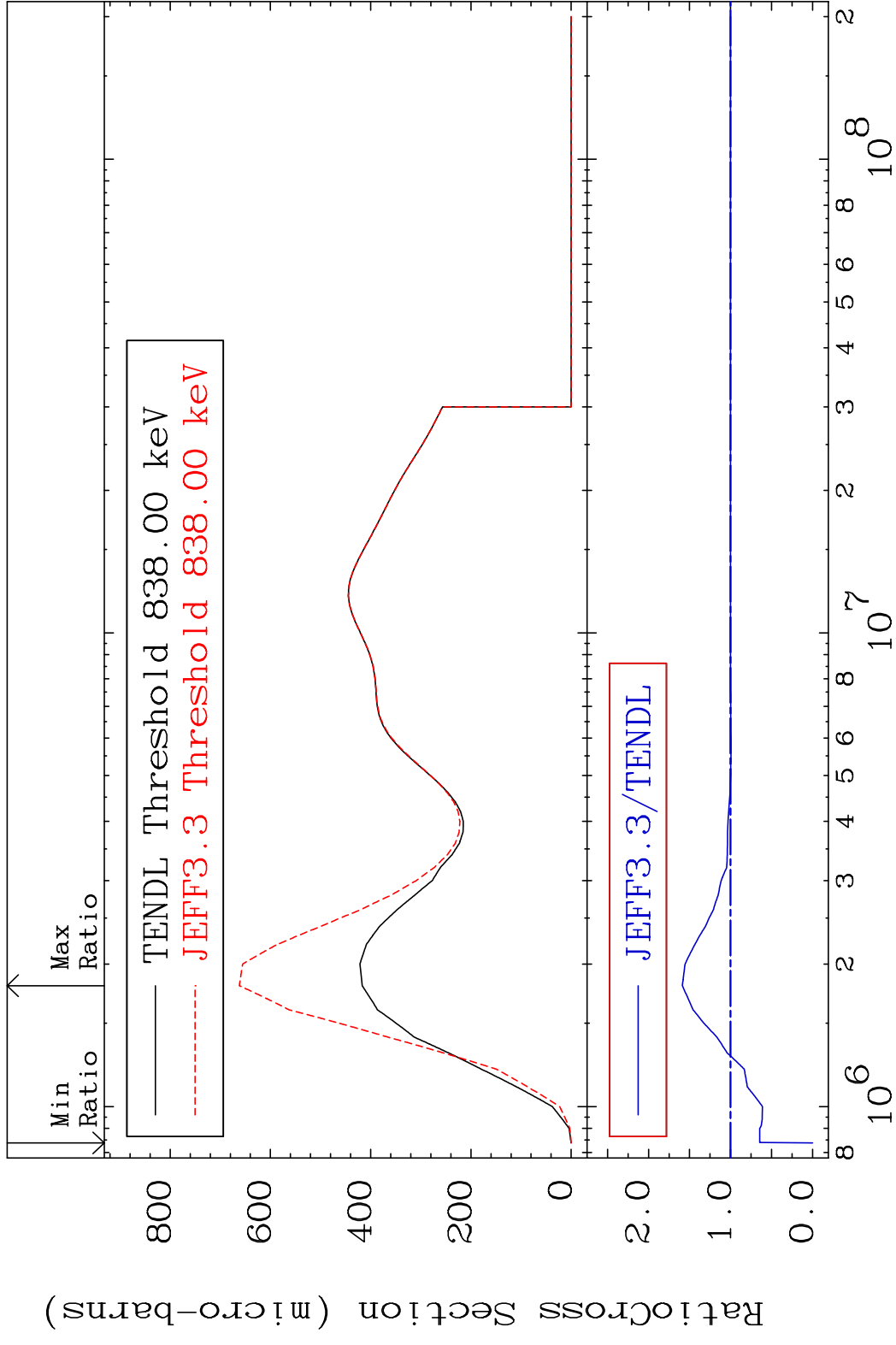


39 Incident Energy (eV) 70-Yb-171

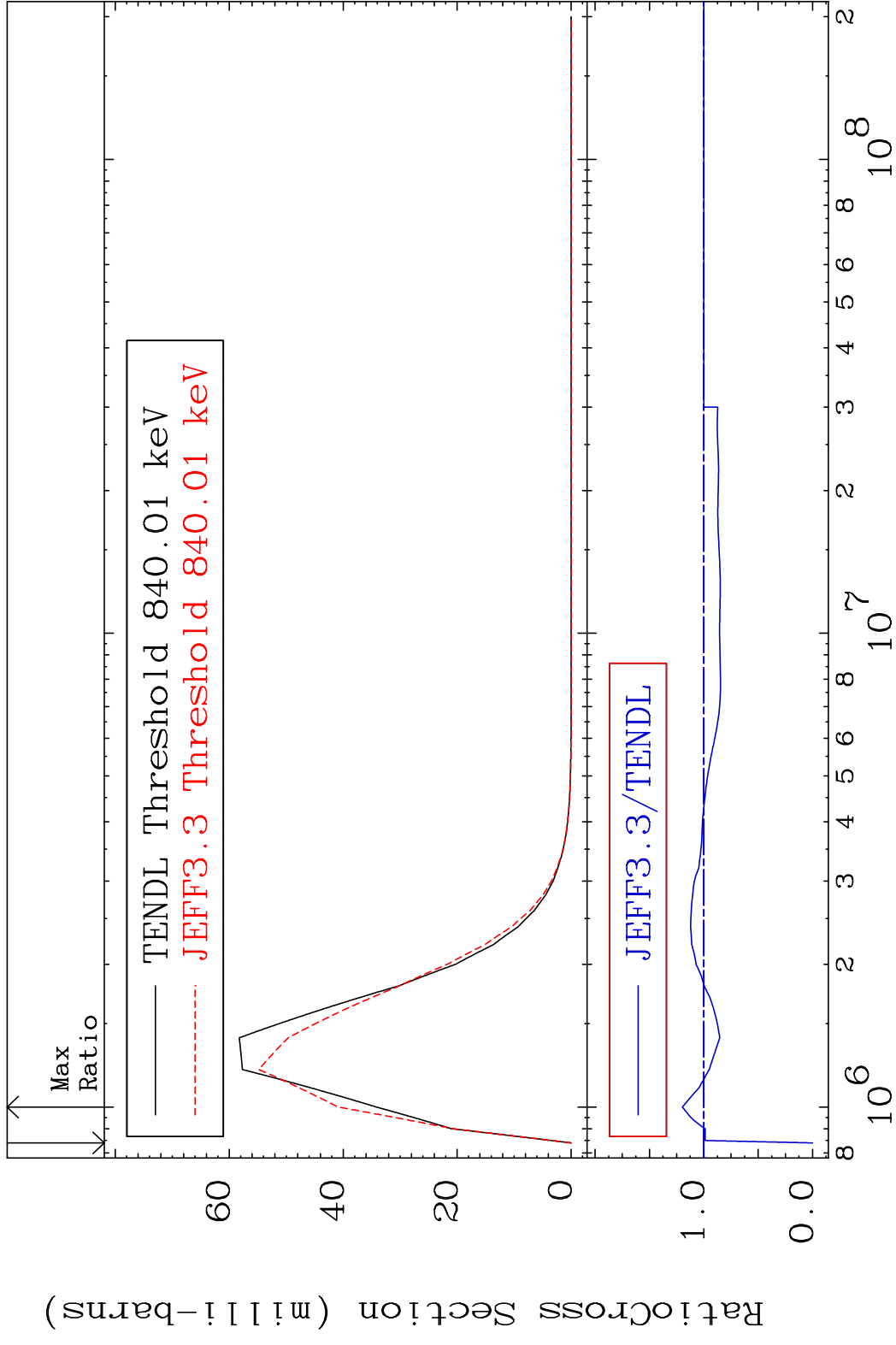
MAT 7034 MT= 70 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 27.21 %



MAT 7034 MT= 71 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 58.78 %

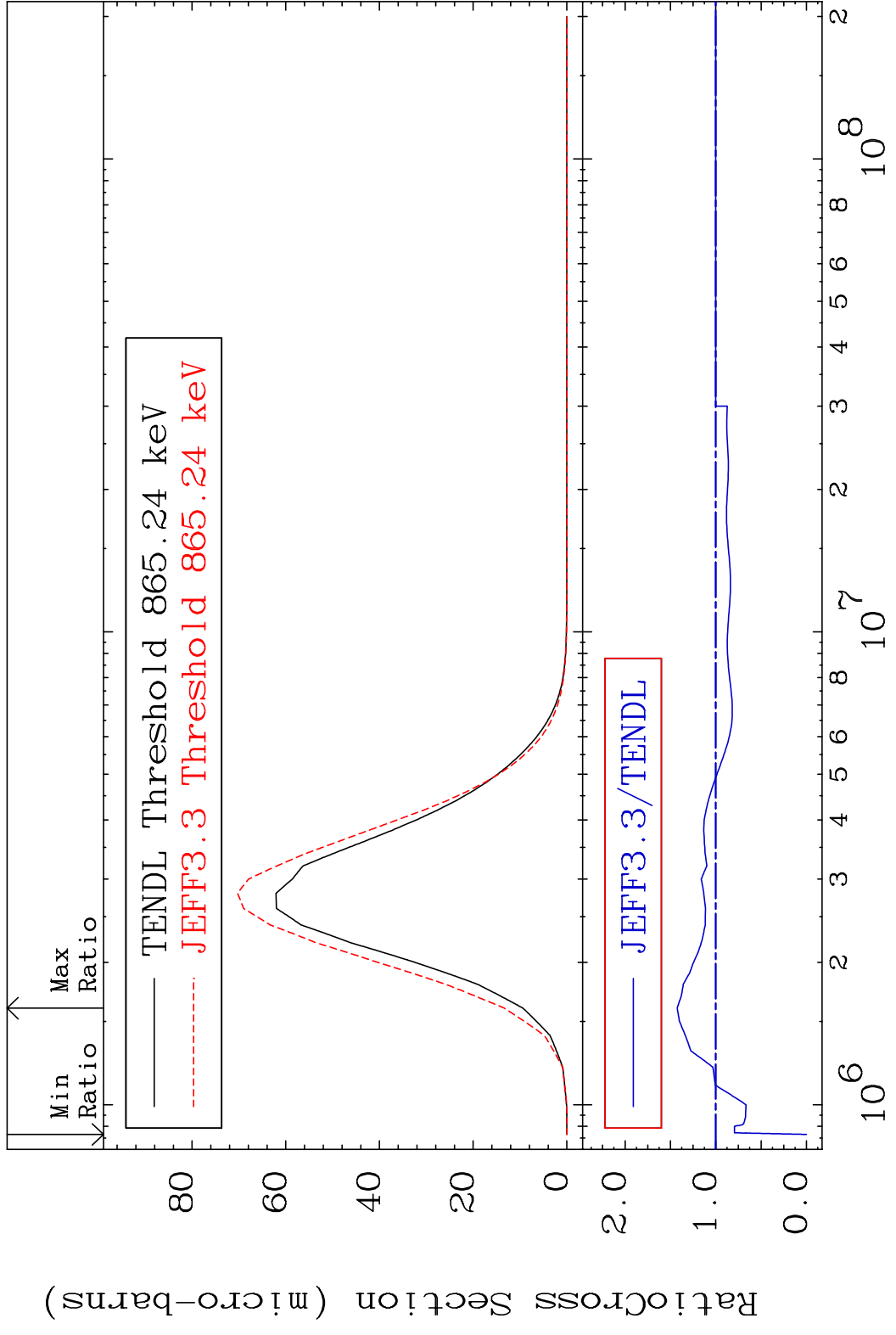


MAT 7034 MT= 72 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 19.73 %



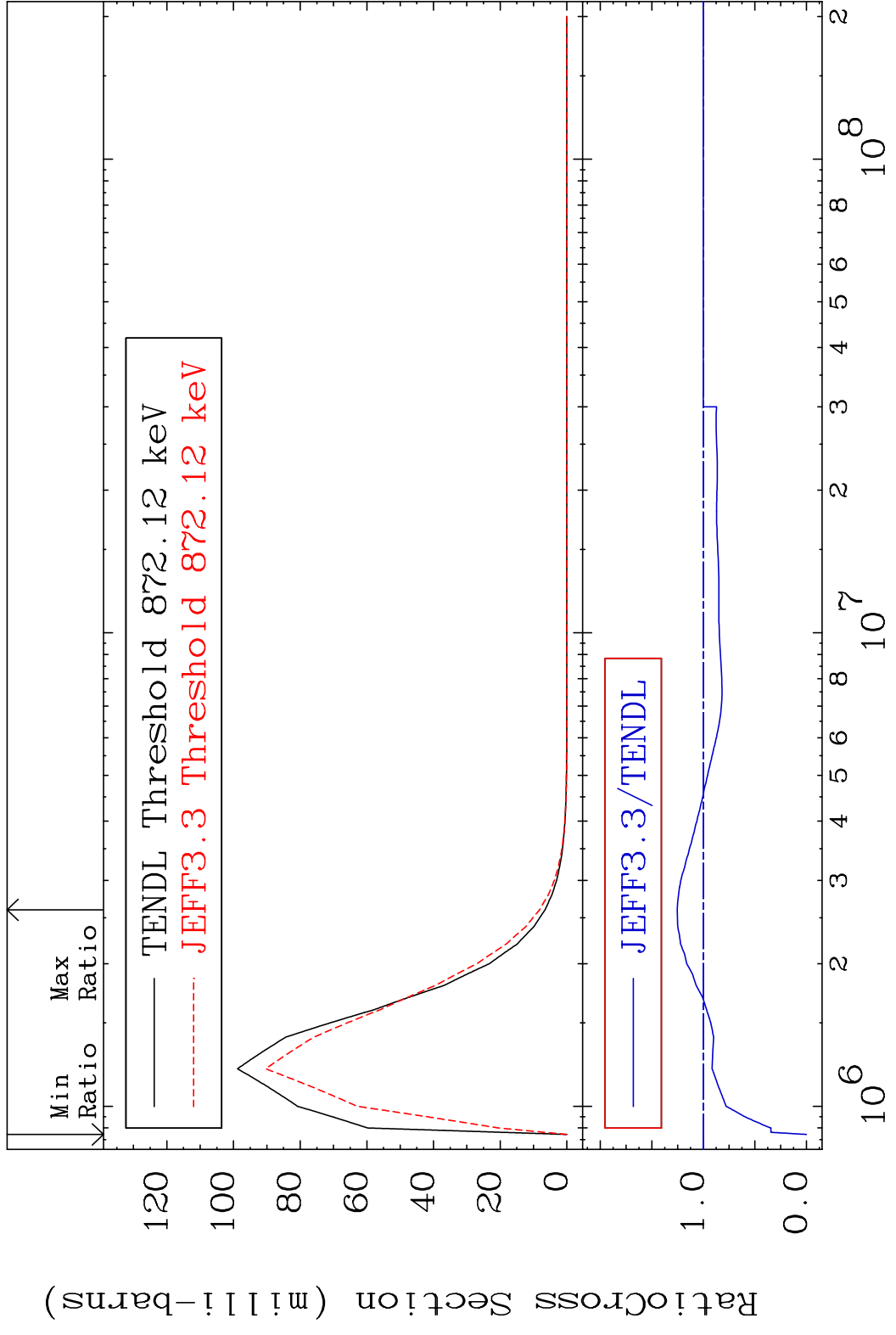
42 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 73 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 42.56 %

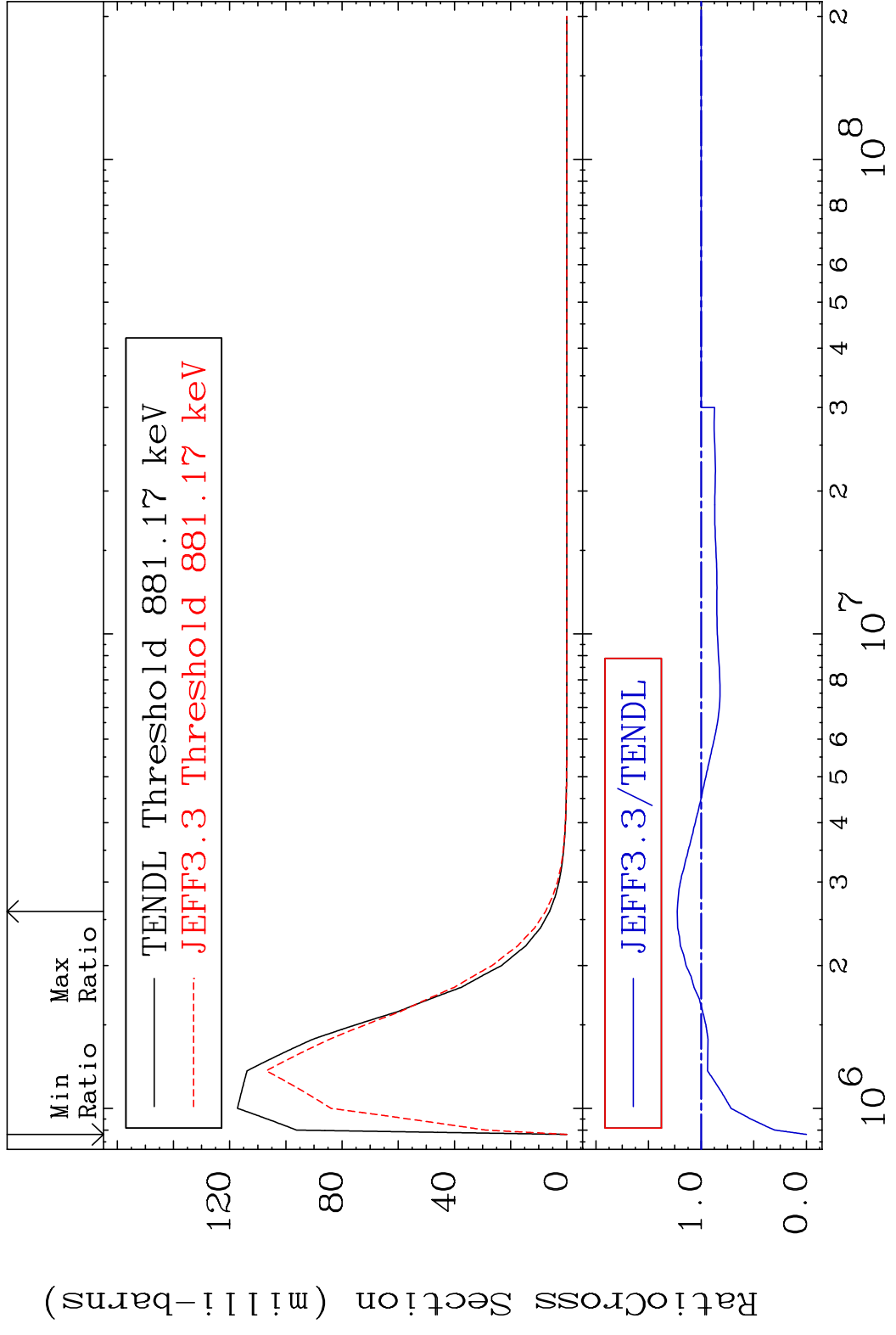


43 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 74 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 25.38 %

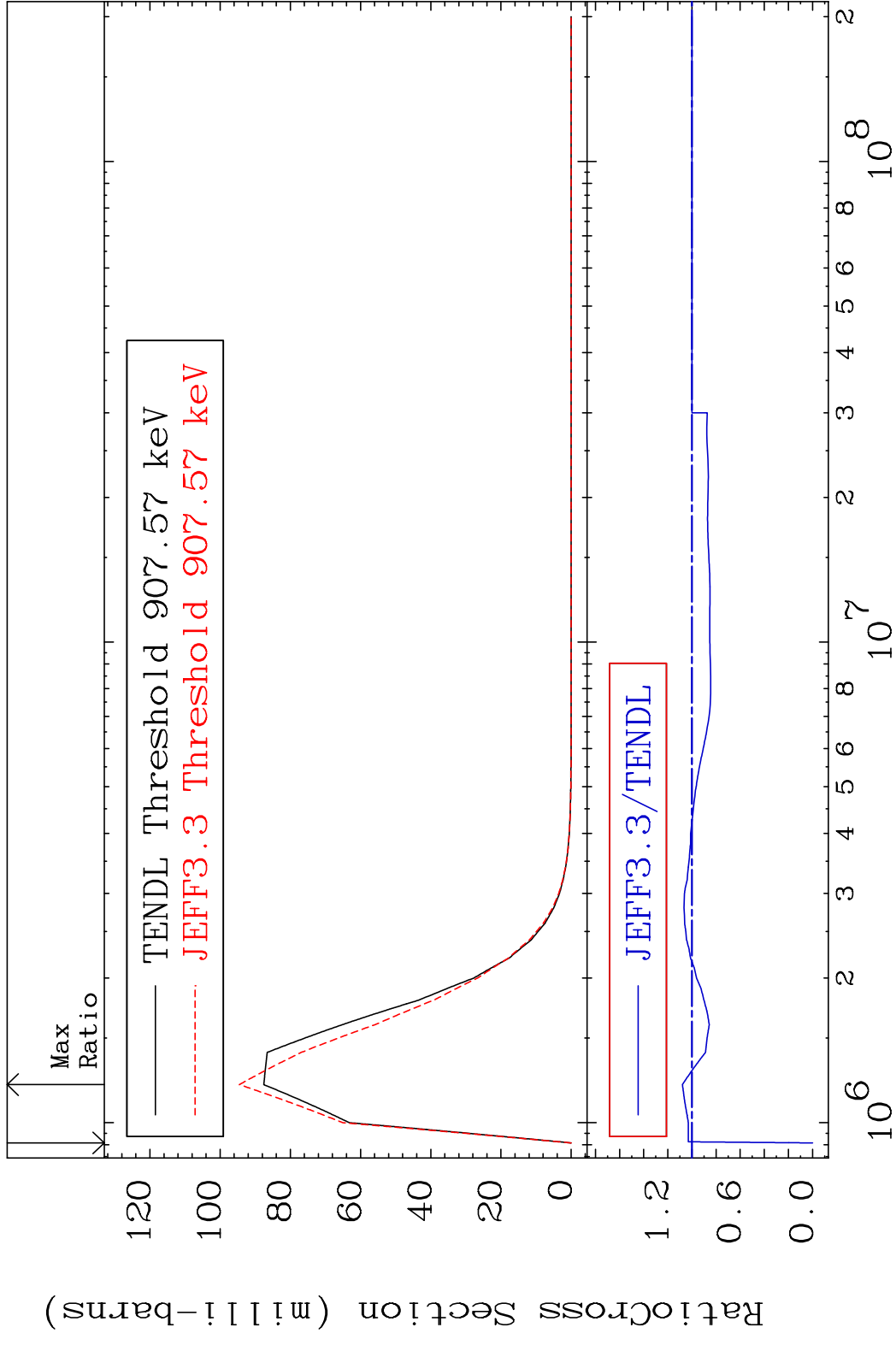


MAT 7034 MT= 75 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 22.76 %



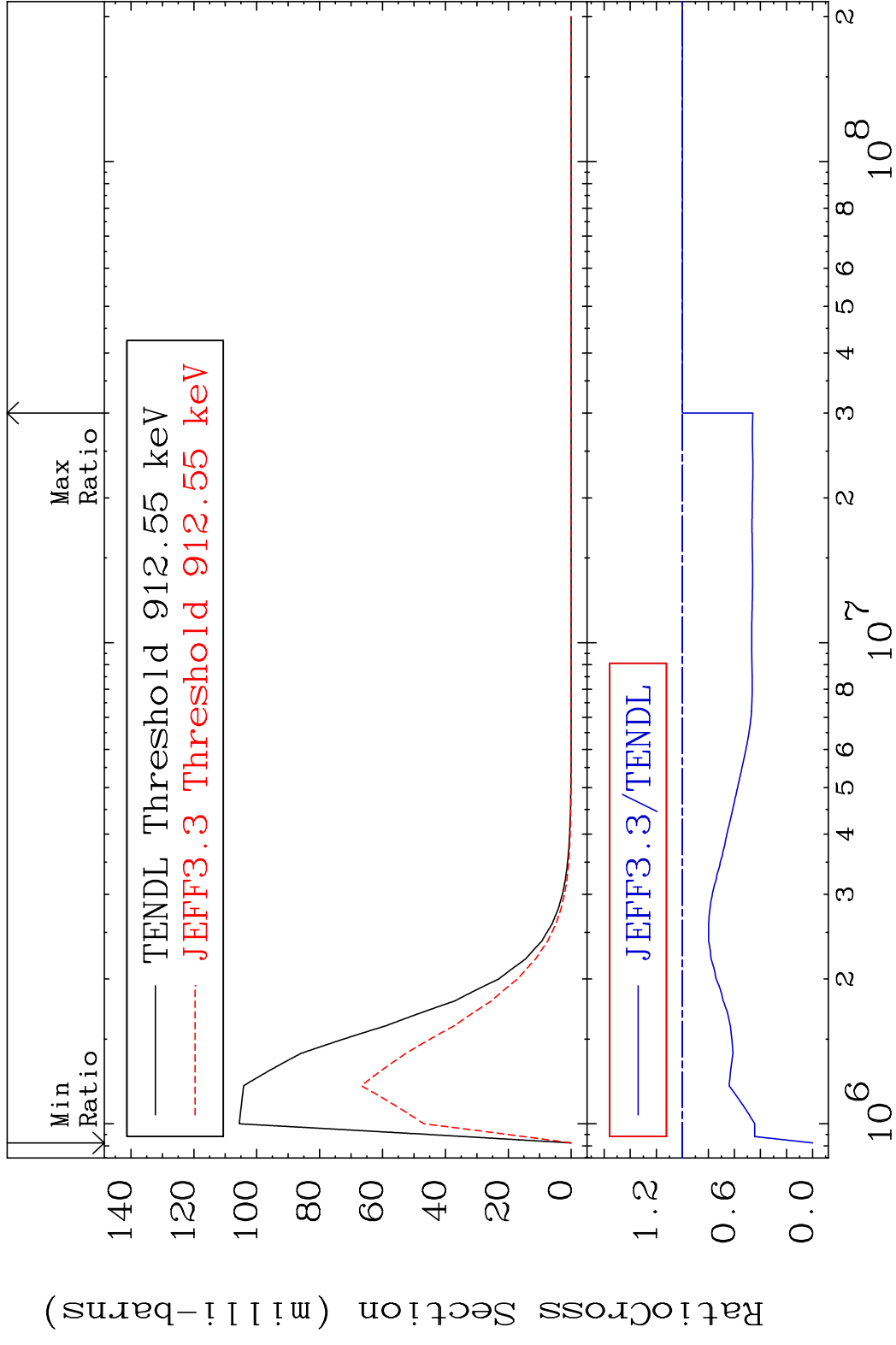
45 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 76 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 7.960 %



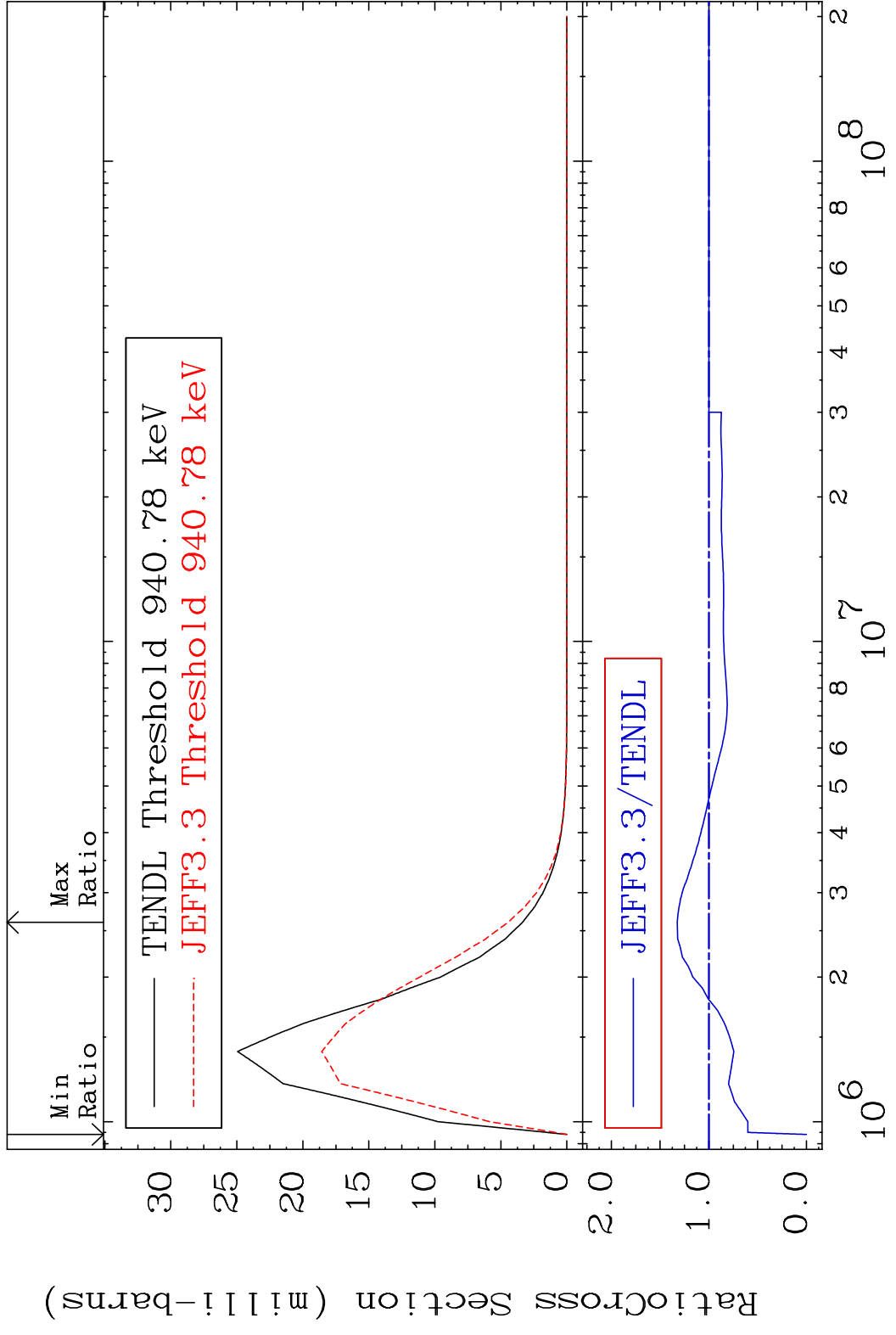
46 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 77 (n,n') Level 70-Yb-171
 Cross Section -100.0 To 0.000 %



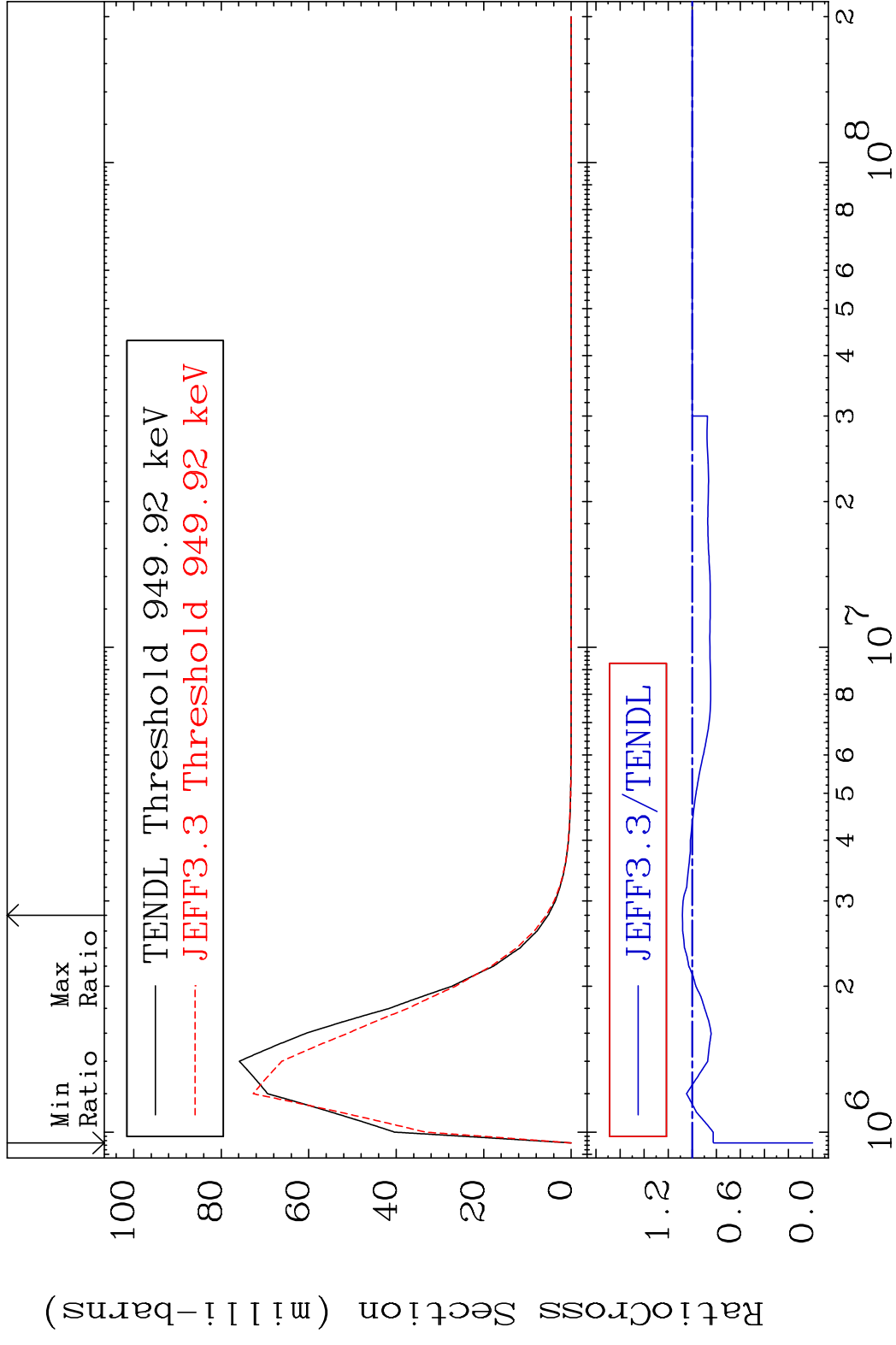
47 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 78 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 32.51 %



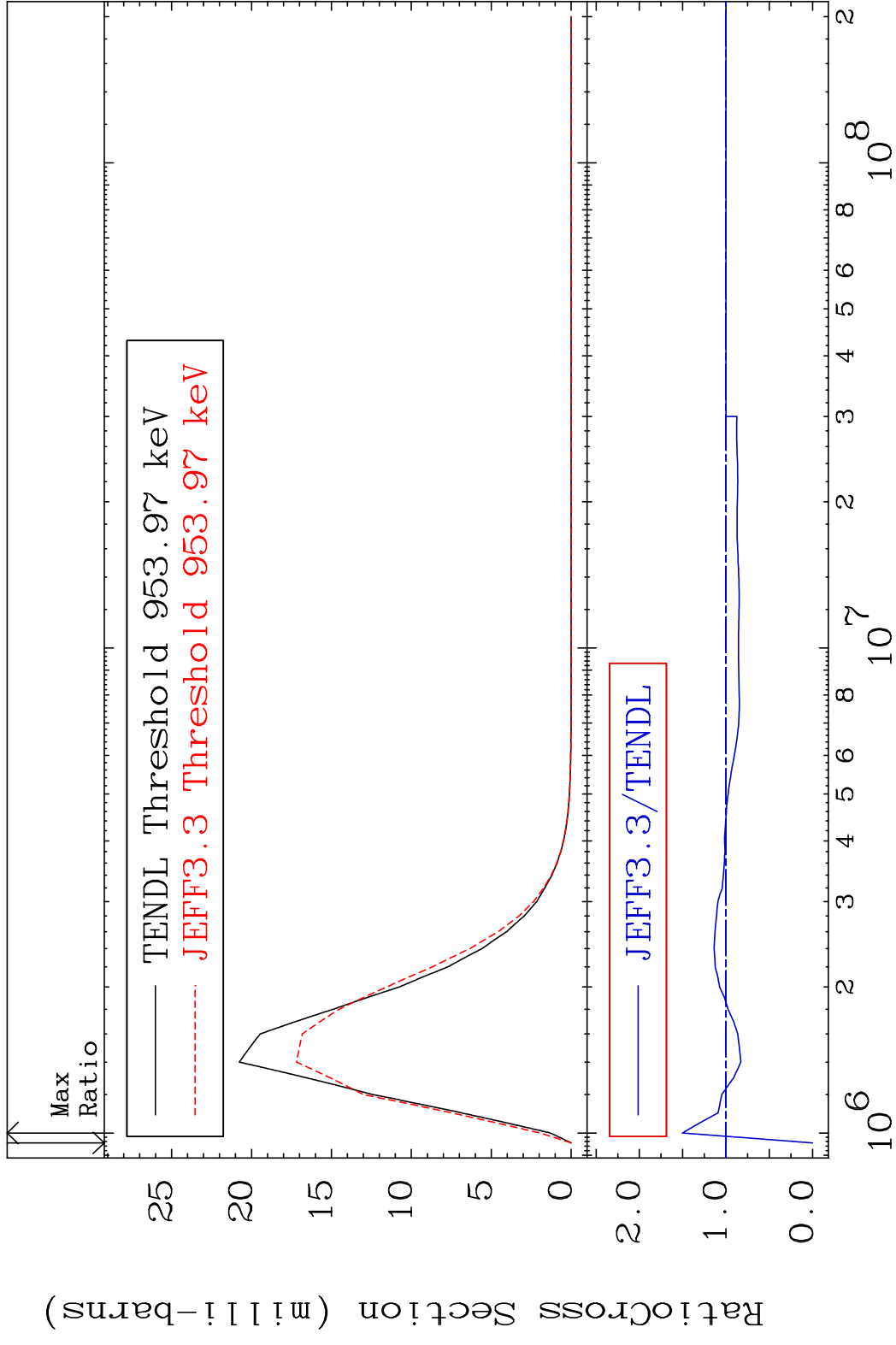
48 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 79 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 8.253 %



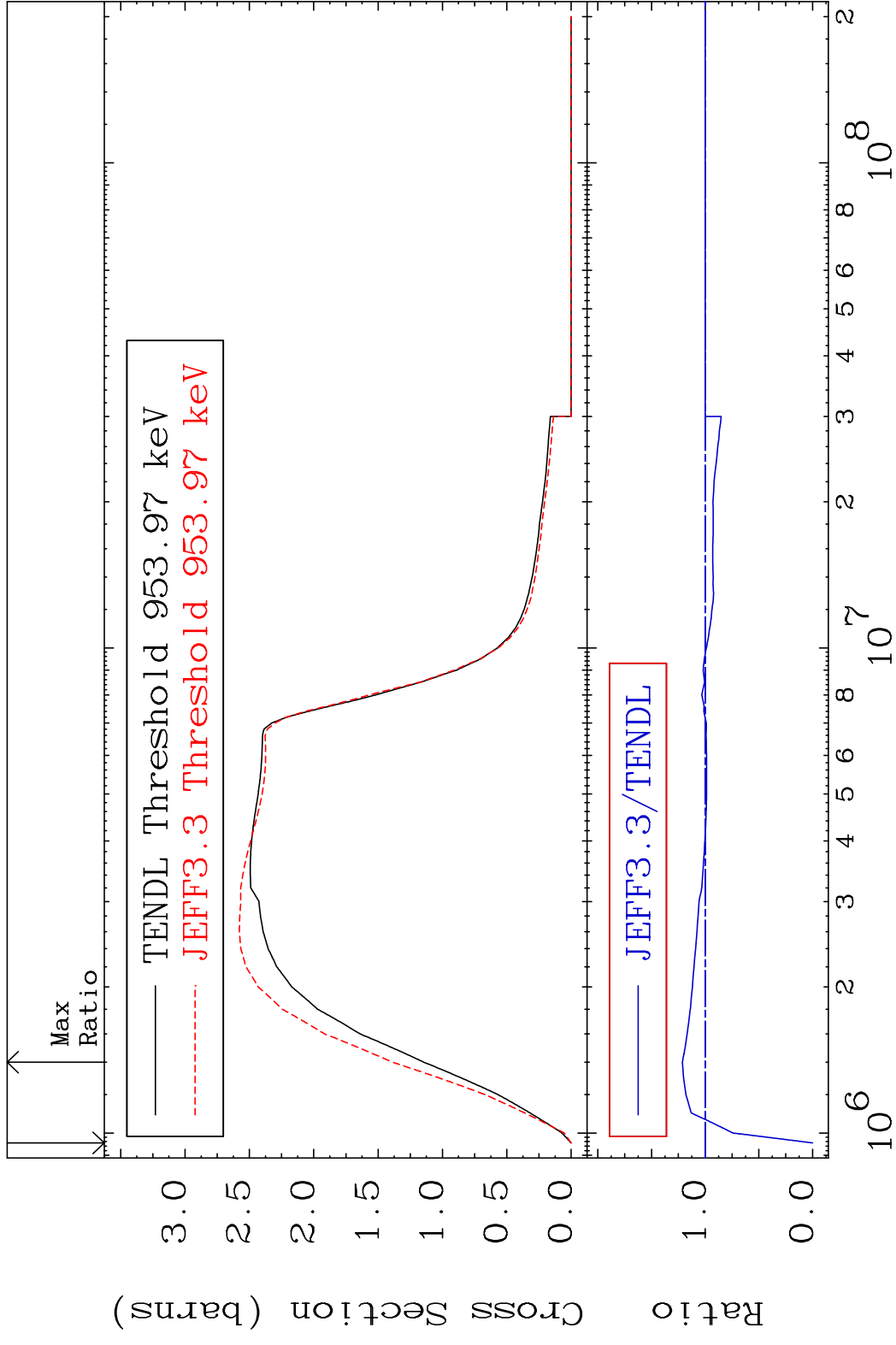
49 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 80 (n, n') Level 70-Yb-171
 Cross Section -100.0 To 50.37 %



50 Incident Energy (eV) 70-Yb-171

MAT 7034 (n, n') Continuum 70-Yb-171
 Cross Section -100.0 To 21.29 %

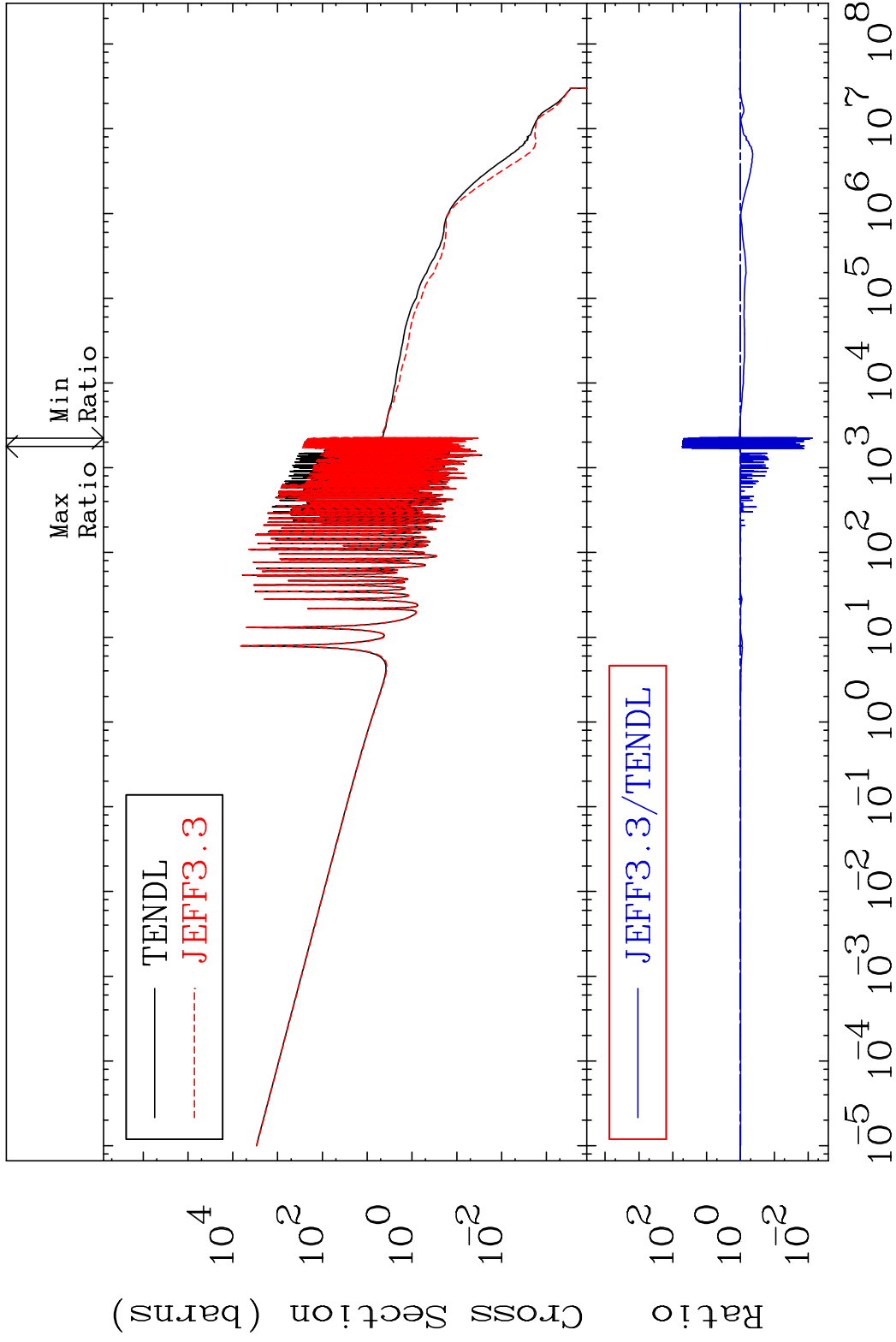


MAT 7034

(n, γ)

70-Yb-171

Cross Section -99.26 To 5193. %



52

Incident Energy (eV)

70-Yb-171

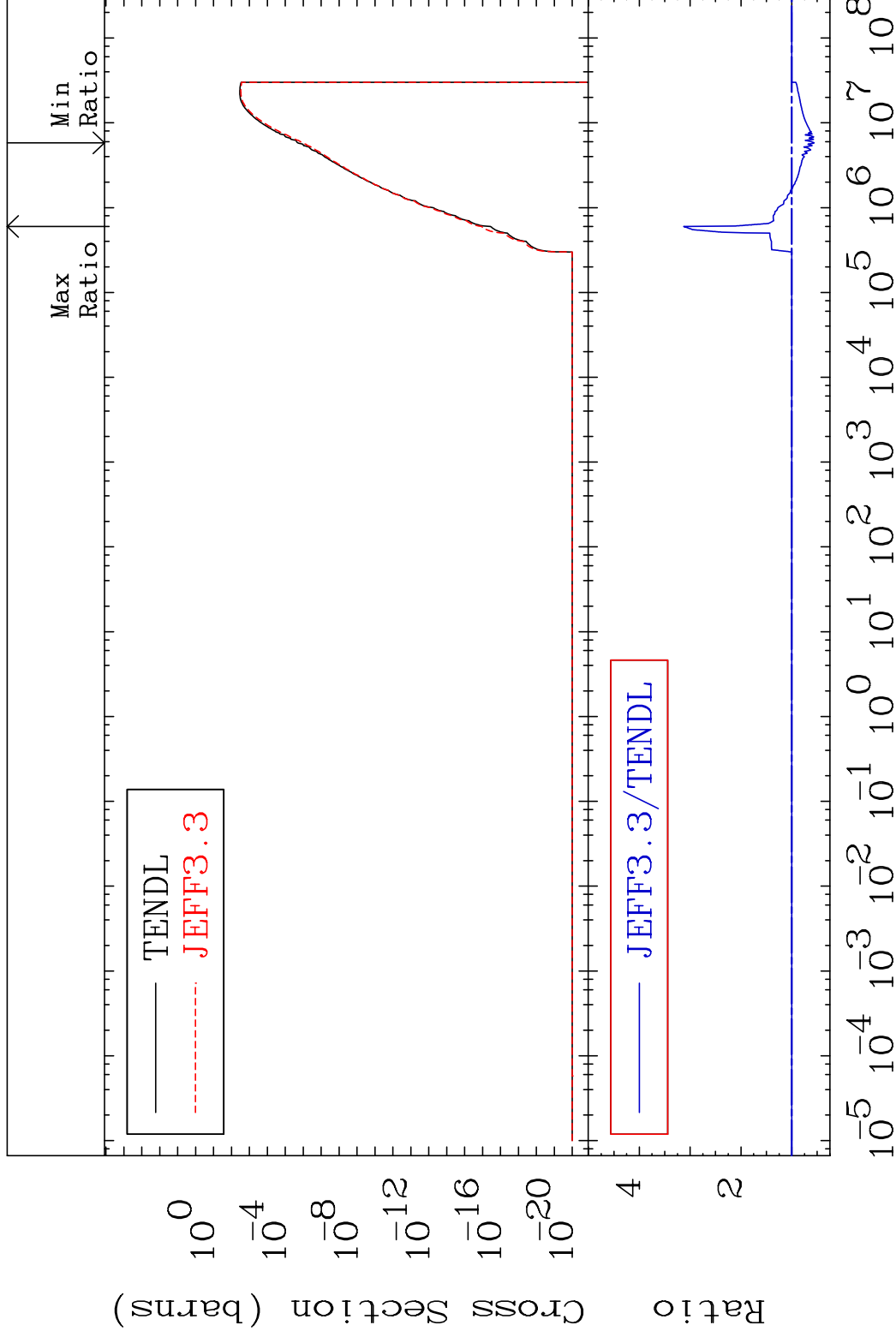
MAT 7034

(n, p)

70-Yb-171

Cross Section

-43.88 To 212.8 %

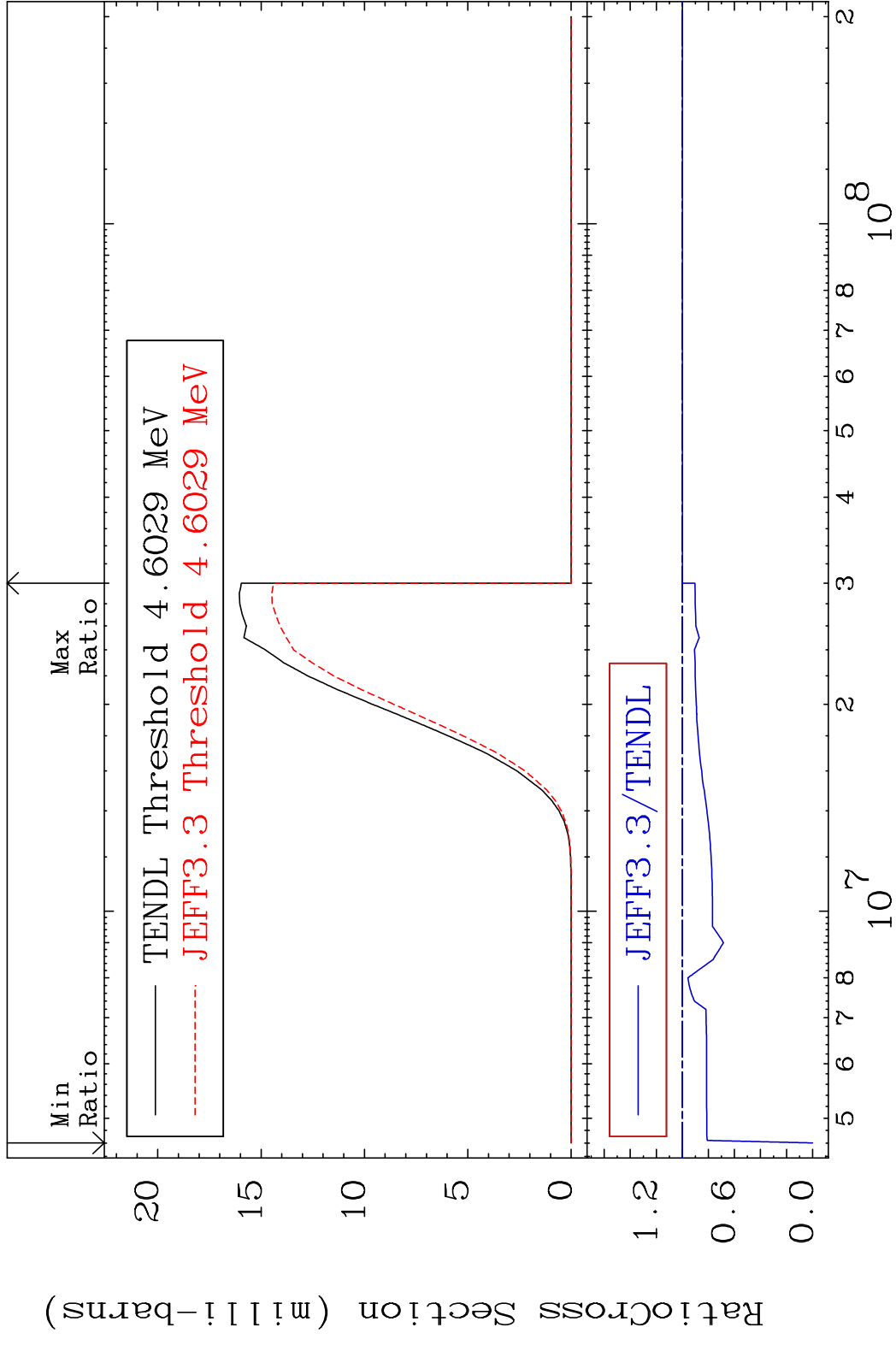


53

Incident Energy (eV)

70-Yb-171

MAT 7034 (n,d) 70-Yb-171
 Cross Section -100.0 To 0.000 %

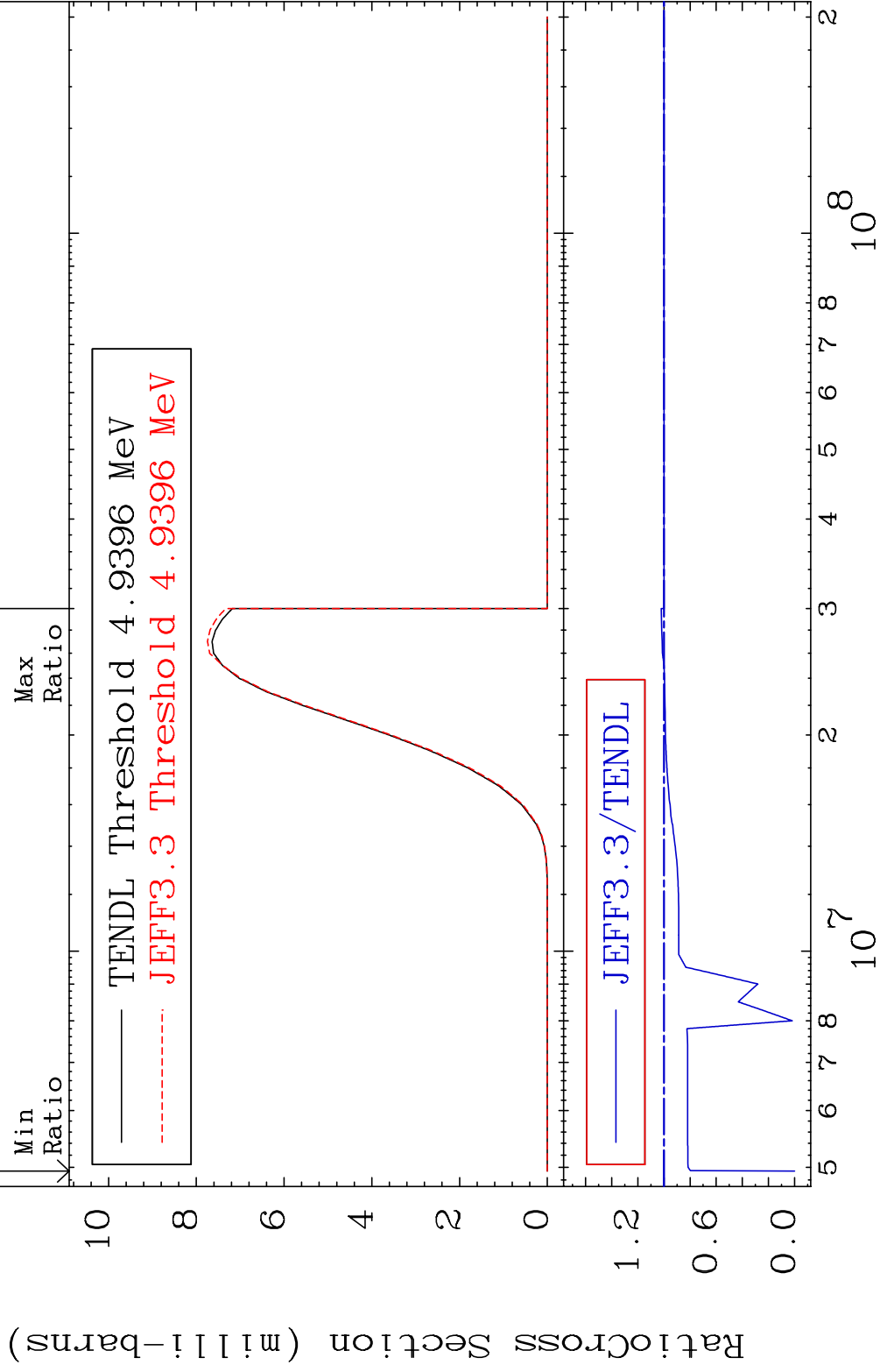


MAT 7034

(n, t)

70-Yb-171

Cross Section -100.0 To 2.117 %



55

Incident Energy (eV)

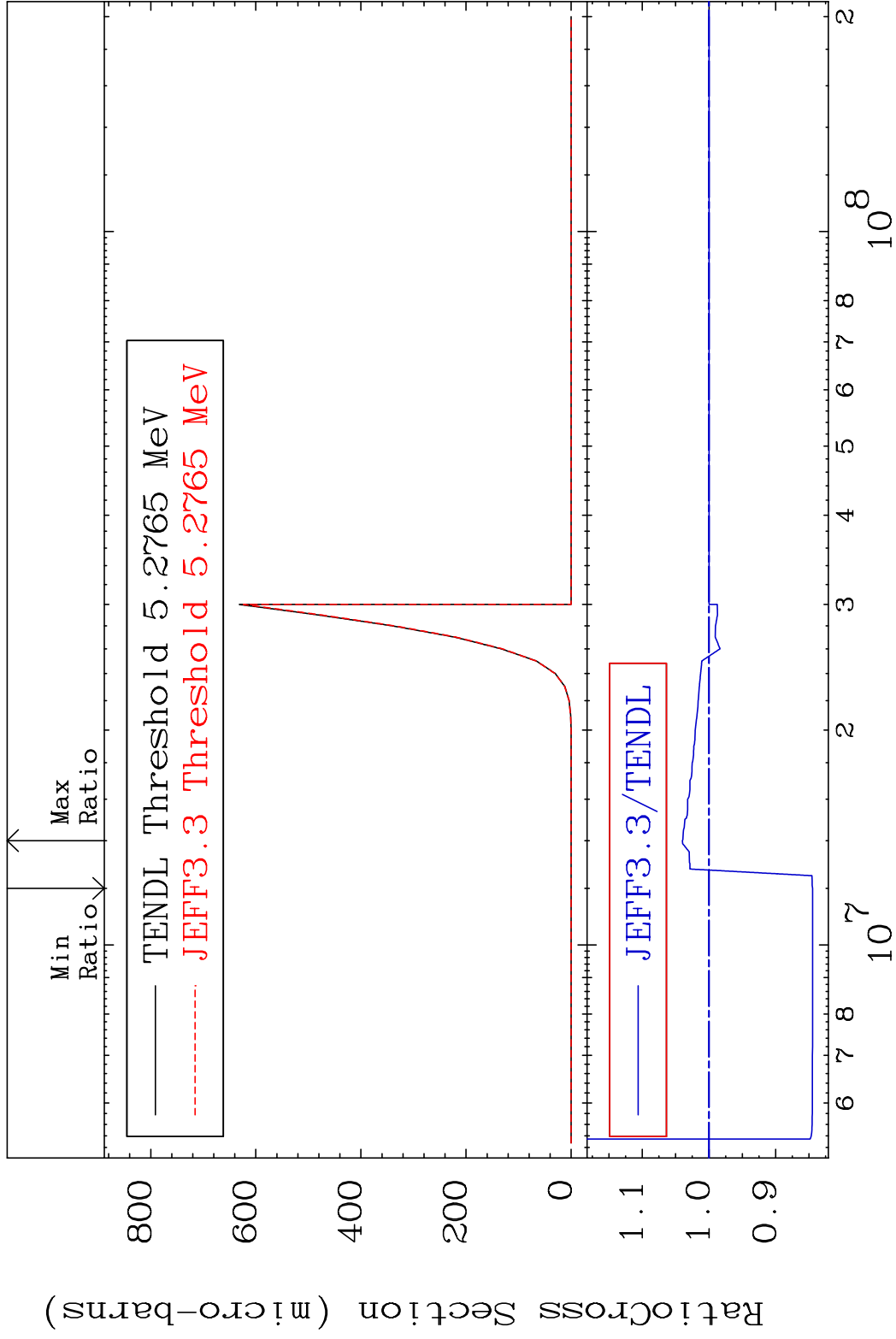
70-Yb-171

MAT 7034

(n, He-3)

70-Yb-171

Cross Section -15.53 To 3.992 %



56

Incident Energy (eV)

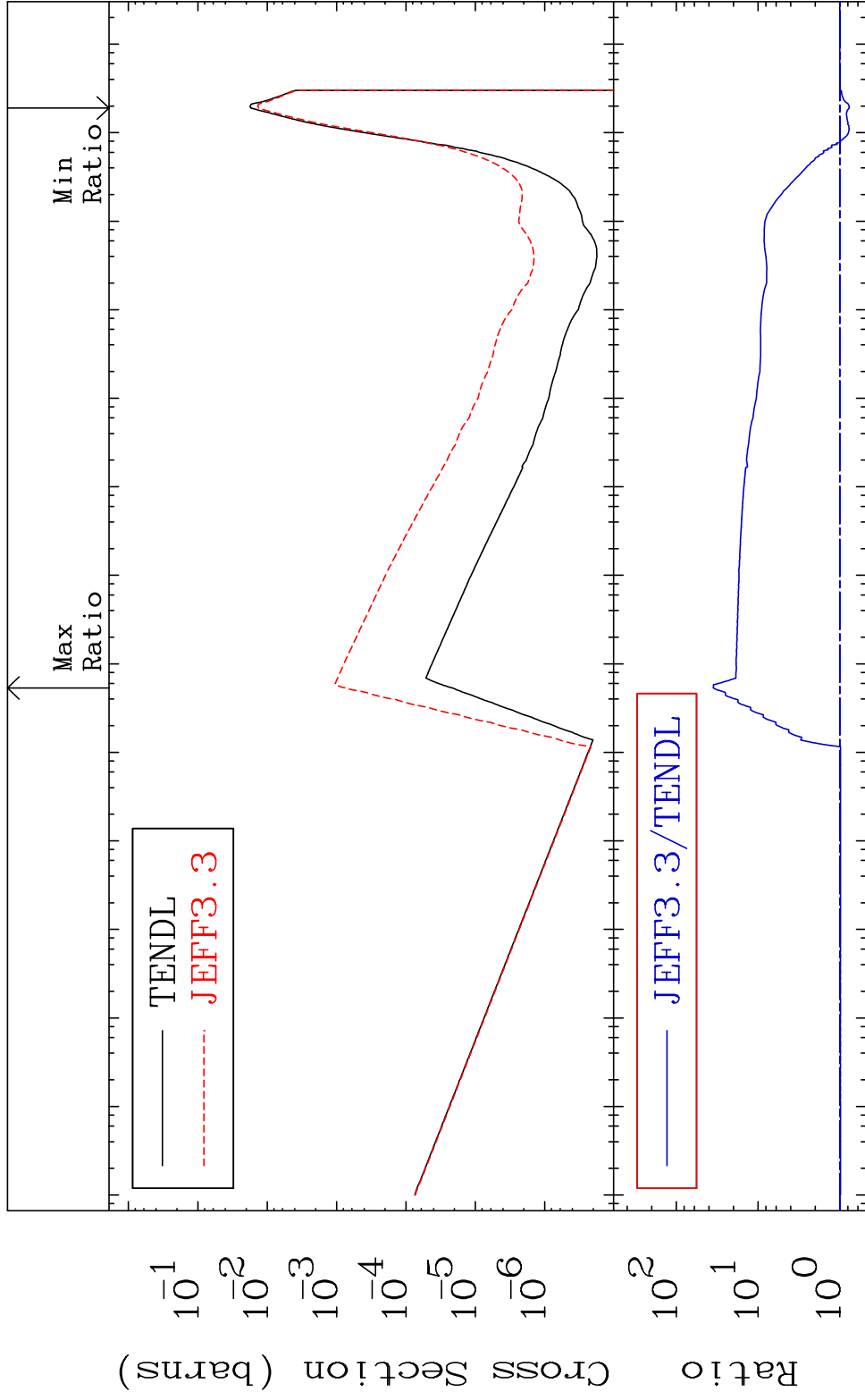
70-Yb-171

MAT 7034

(n, α)

70-Yb-171

Cross Section -23.26 To 3440. %

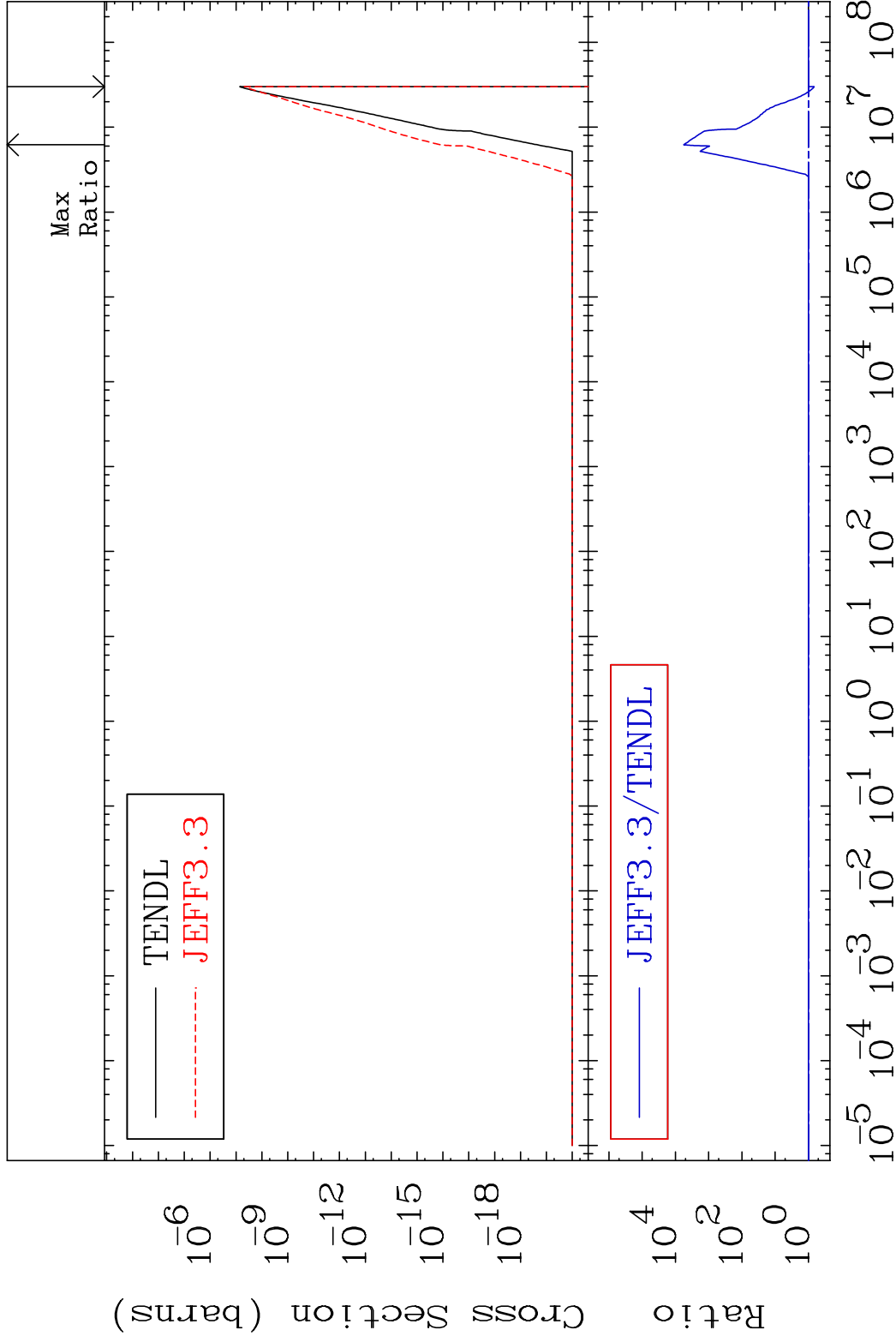


MAT 7034

(n, 2α)

70-Yb-171

Cross Section -32.92 To 9999. %



58

Incident Energy (eV)

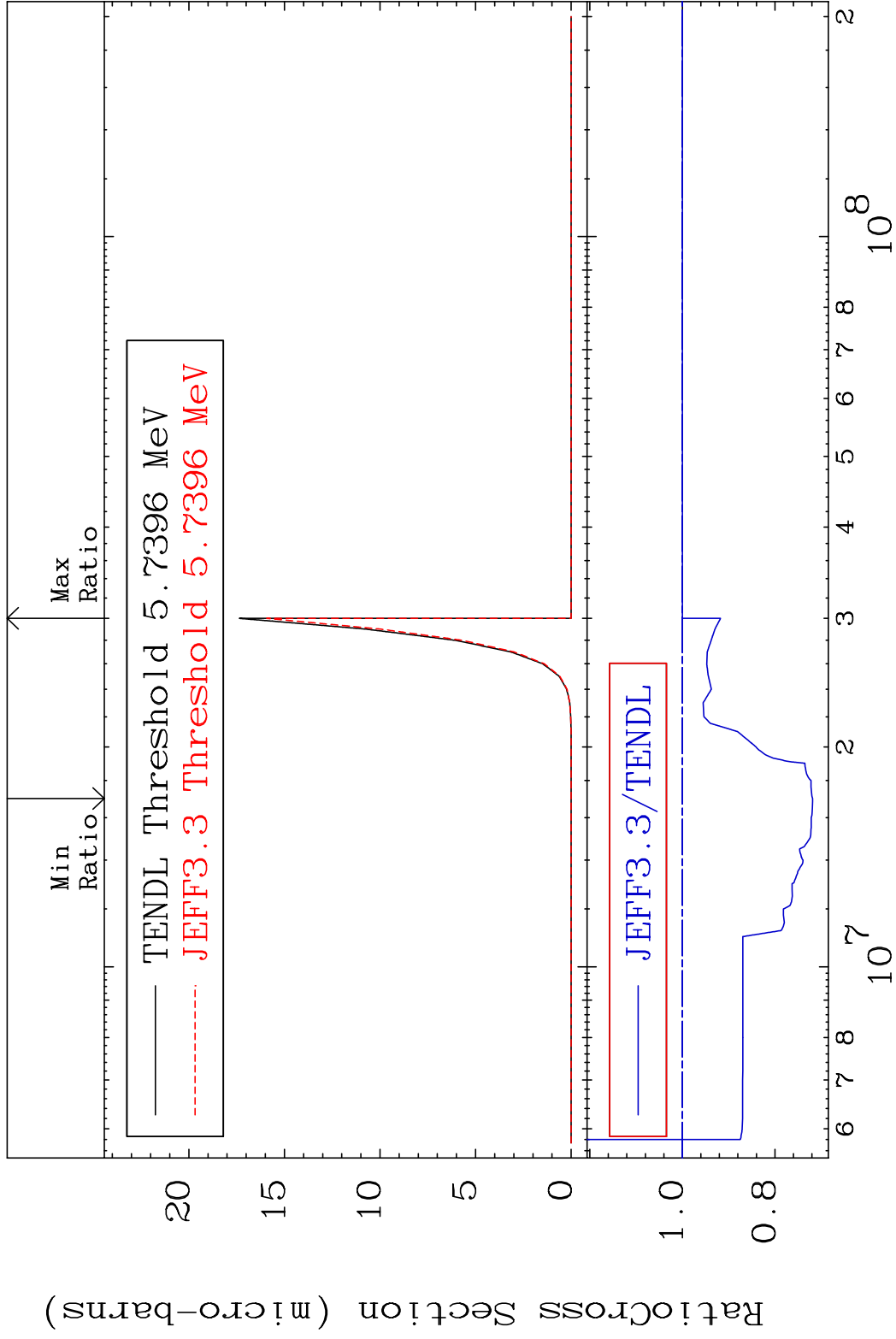
70-Yb-171

MAT 7034

(n,2p)

70-Yb-171

Cross Section -28.14 To 0.000 %



59

Incident Energy (eV)

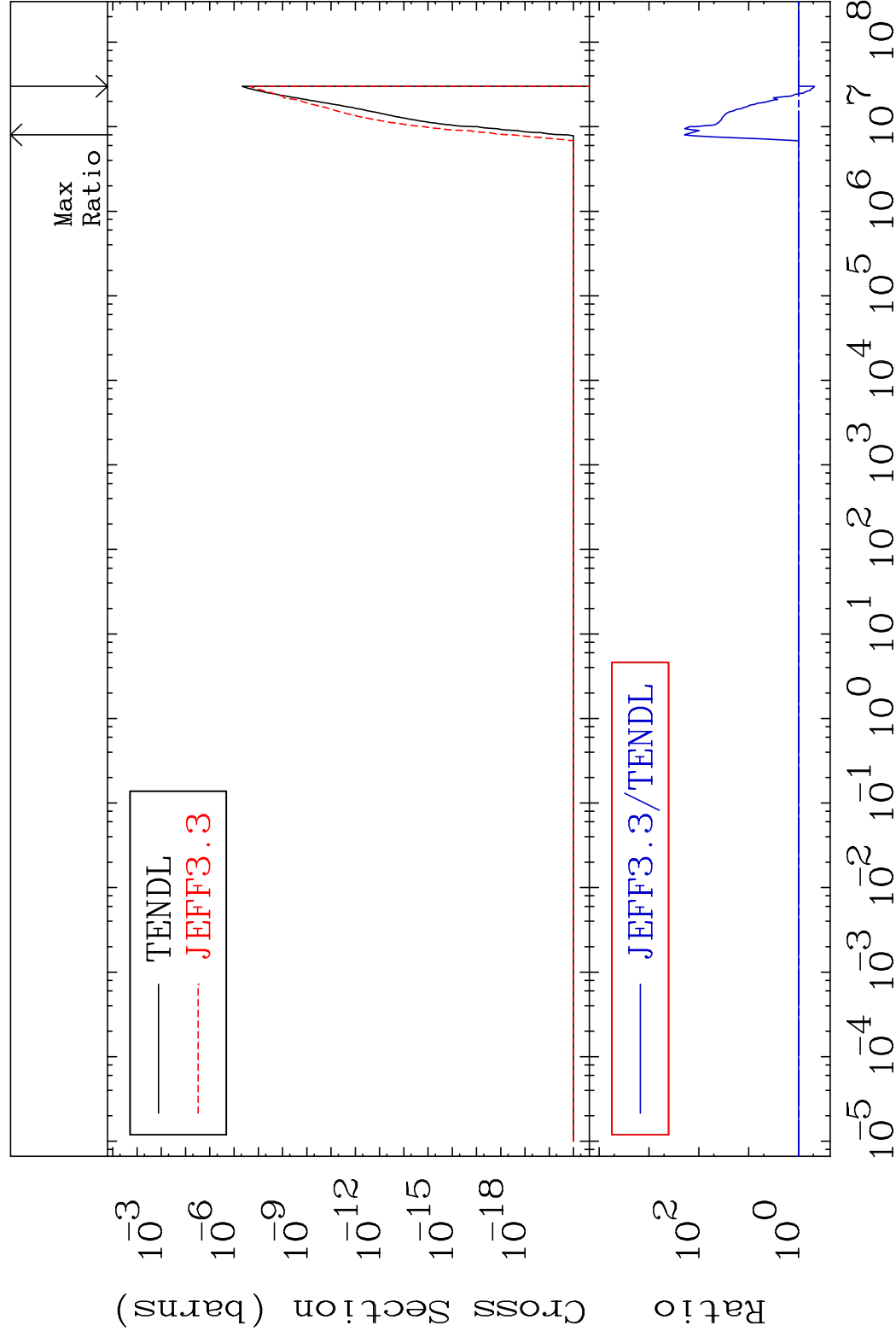
70-Yb-171

MAT 7034

(n,p) α

70-Yb-171

Cross Section -52.23 To 9999. %



60

Incident Energy (eV)

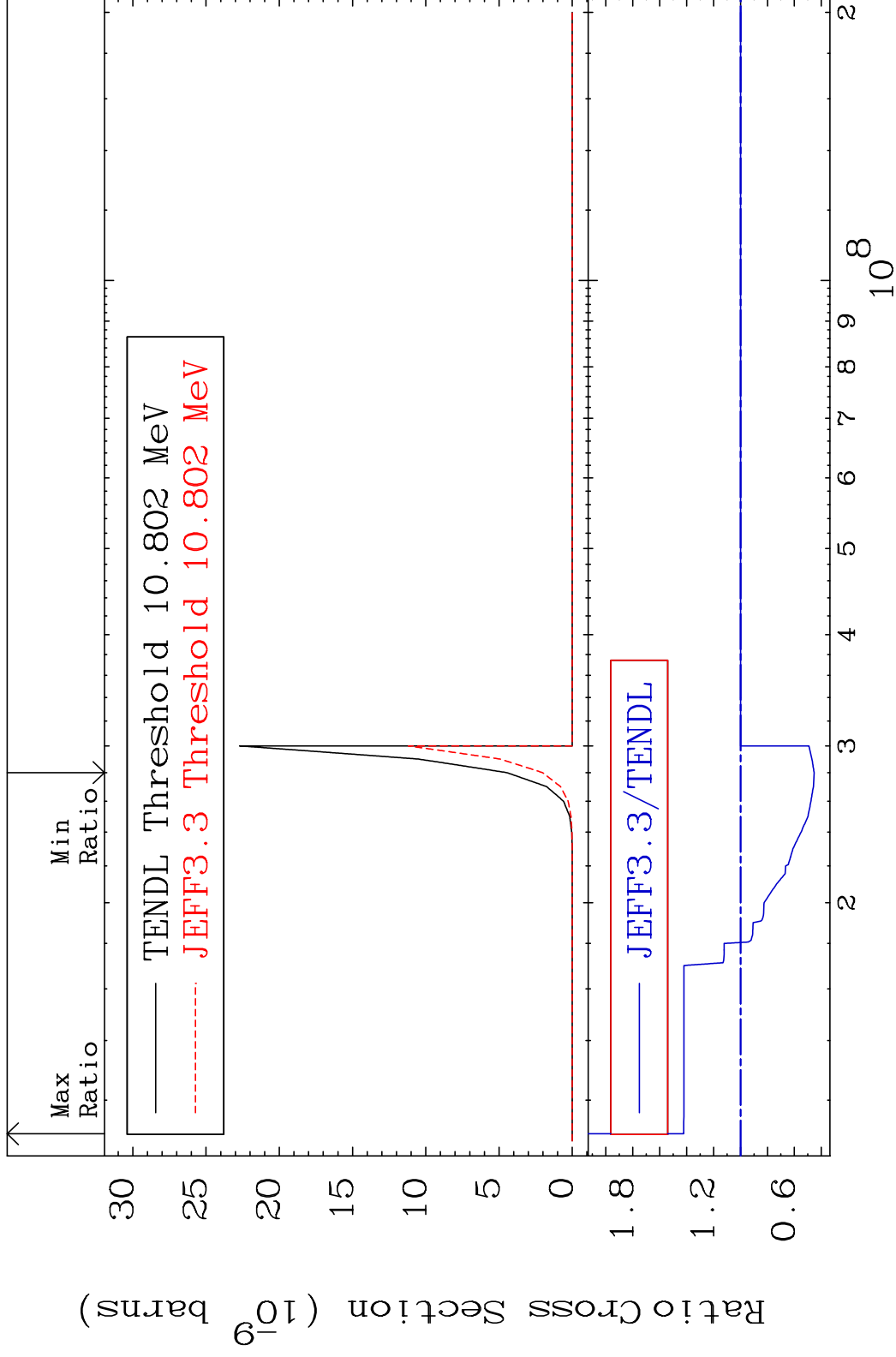
70-Yb-171

MAT 7034

(n,p) d

70-Yb-171

Cross Section -54.65 To 42.21 %

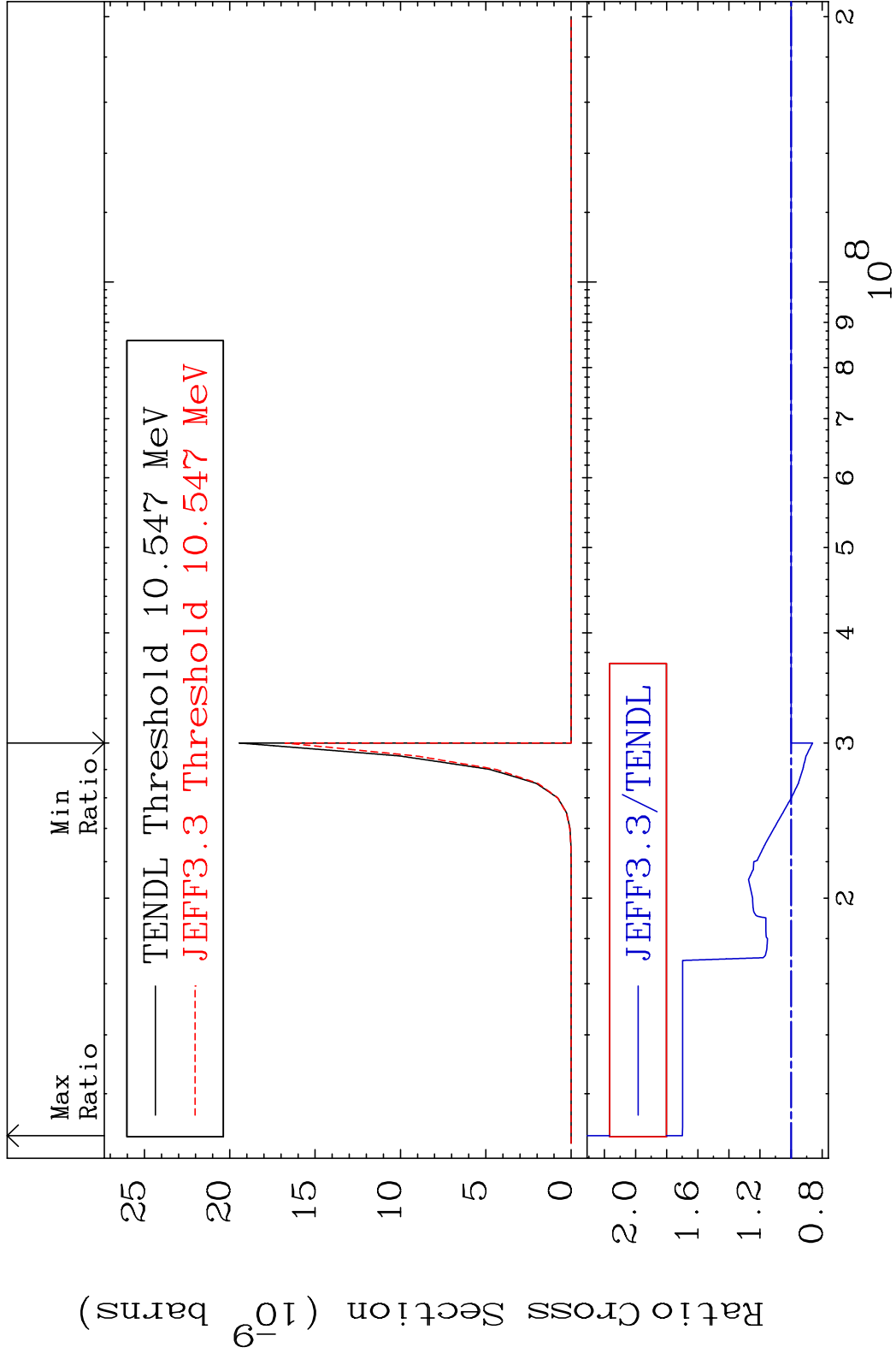


61

Incident Energy (eV)

70-Yb-171

MAT 7034 (n,p) t 70-Yb-171
 Cross Section -13.82 To 69.93 %

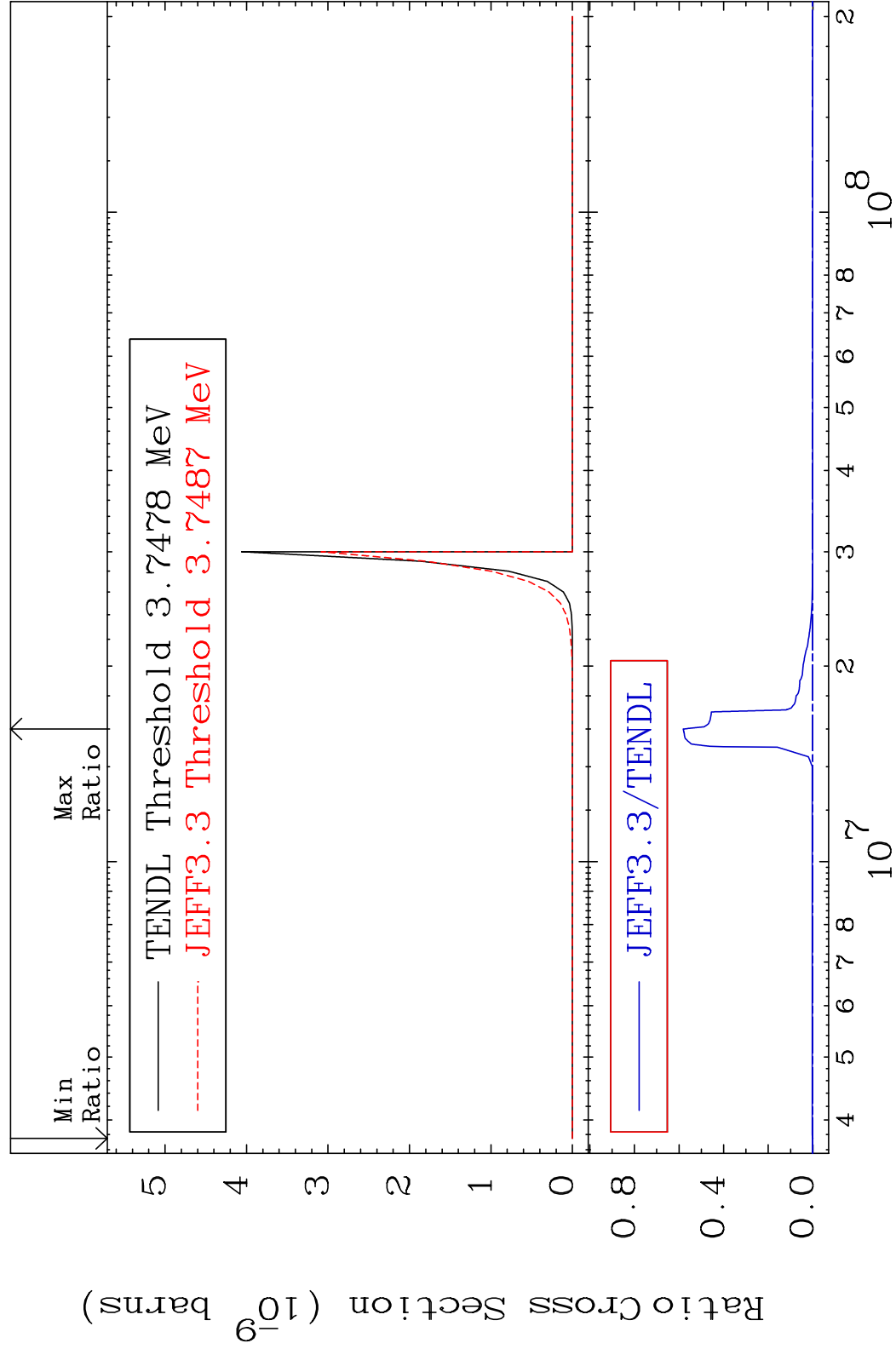


MAT 7034

(n,d) α

70-Yb-171

Cross Section -100.0 To 9999. %



63

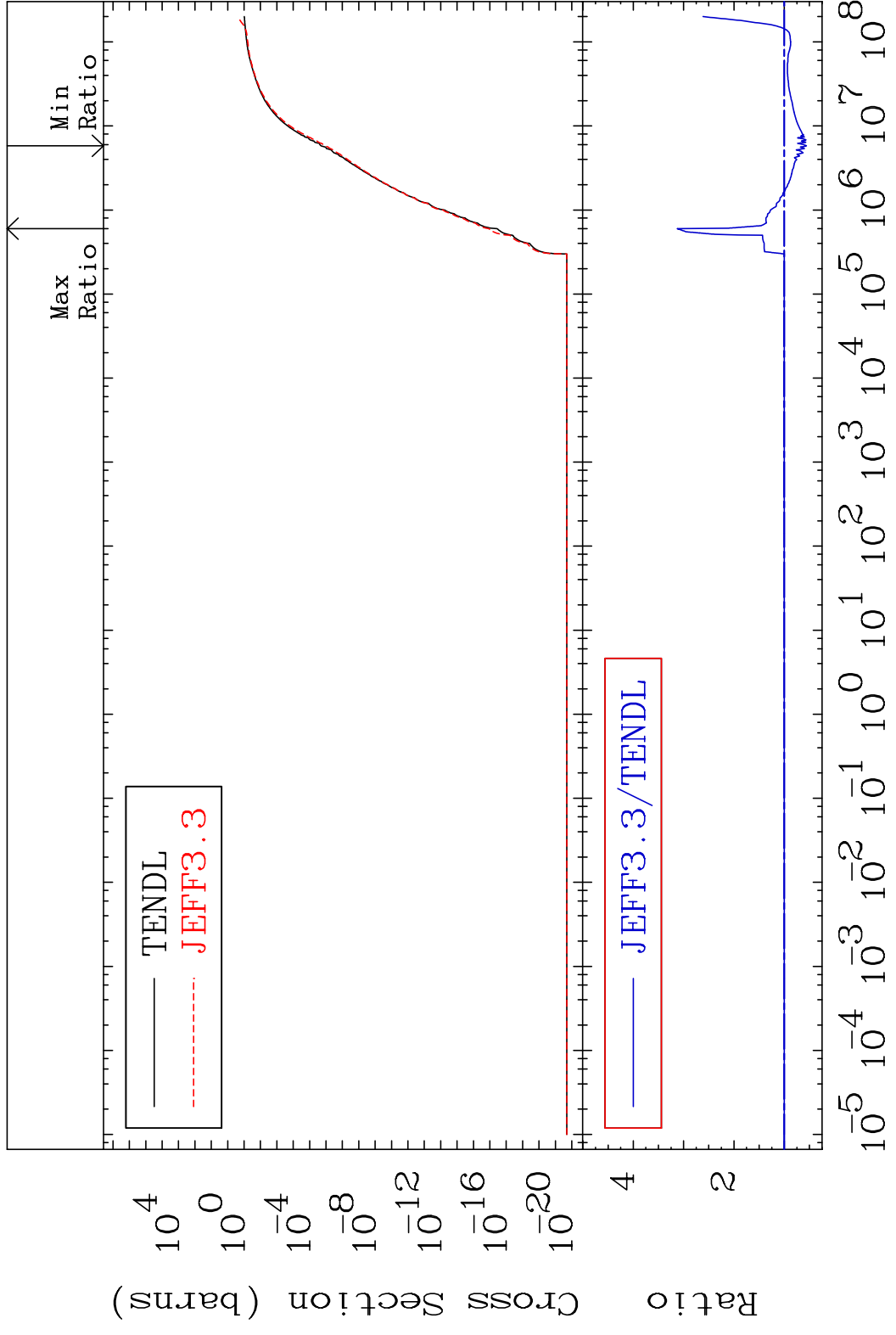
Incident Energy (eV)

70-Yb-171

MAT 7034

Hydrogen Production
Cross Section -43.88 To 212.8 %

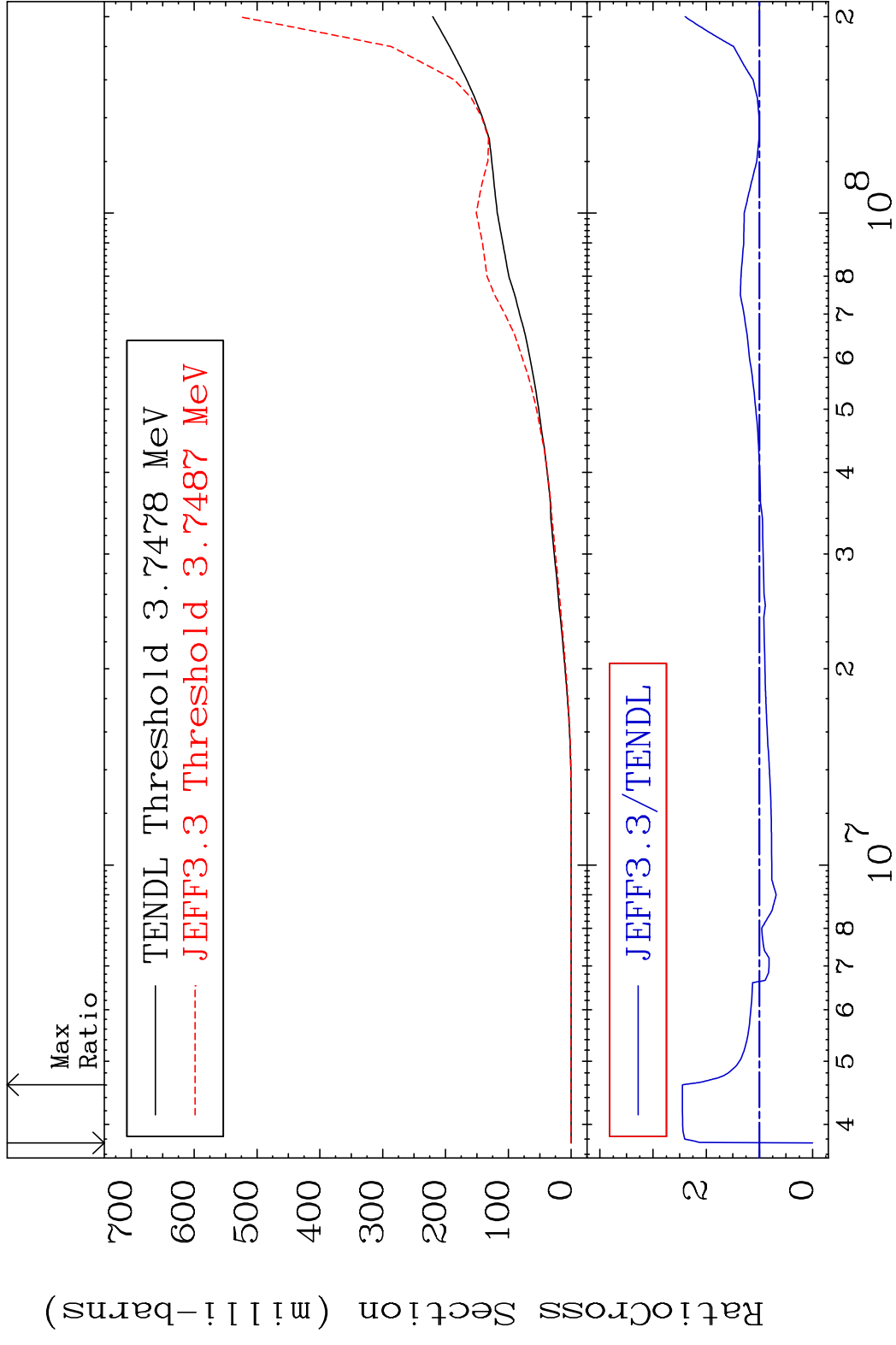
70-Yb-171



MAT 7034

Deuterium Production
Cross Section -100.0 To 144.9 %

70-Yb-171

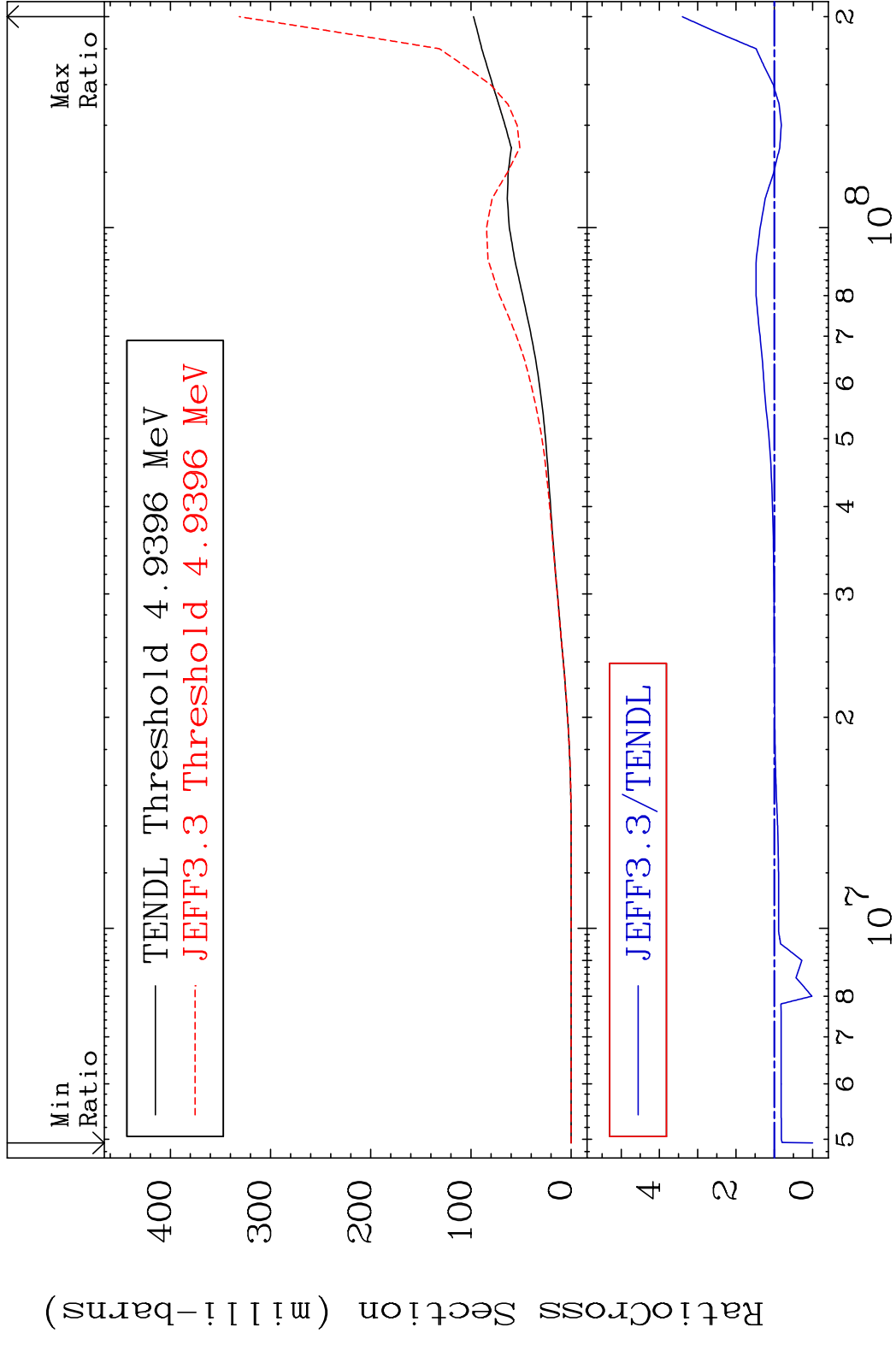


65

Incident Energy (eV)

70-Yb-171

MAT 7034 Tritium Production 70-Yb-171
 Cross Section -100.0 To 240.2 %

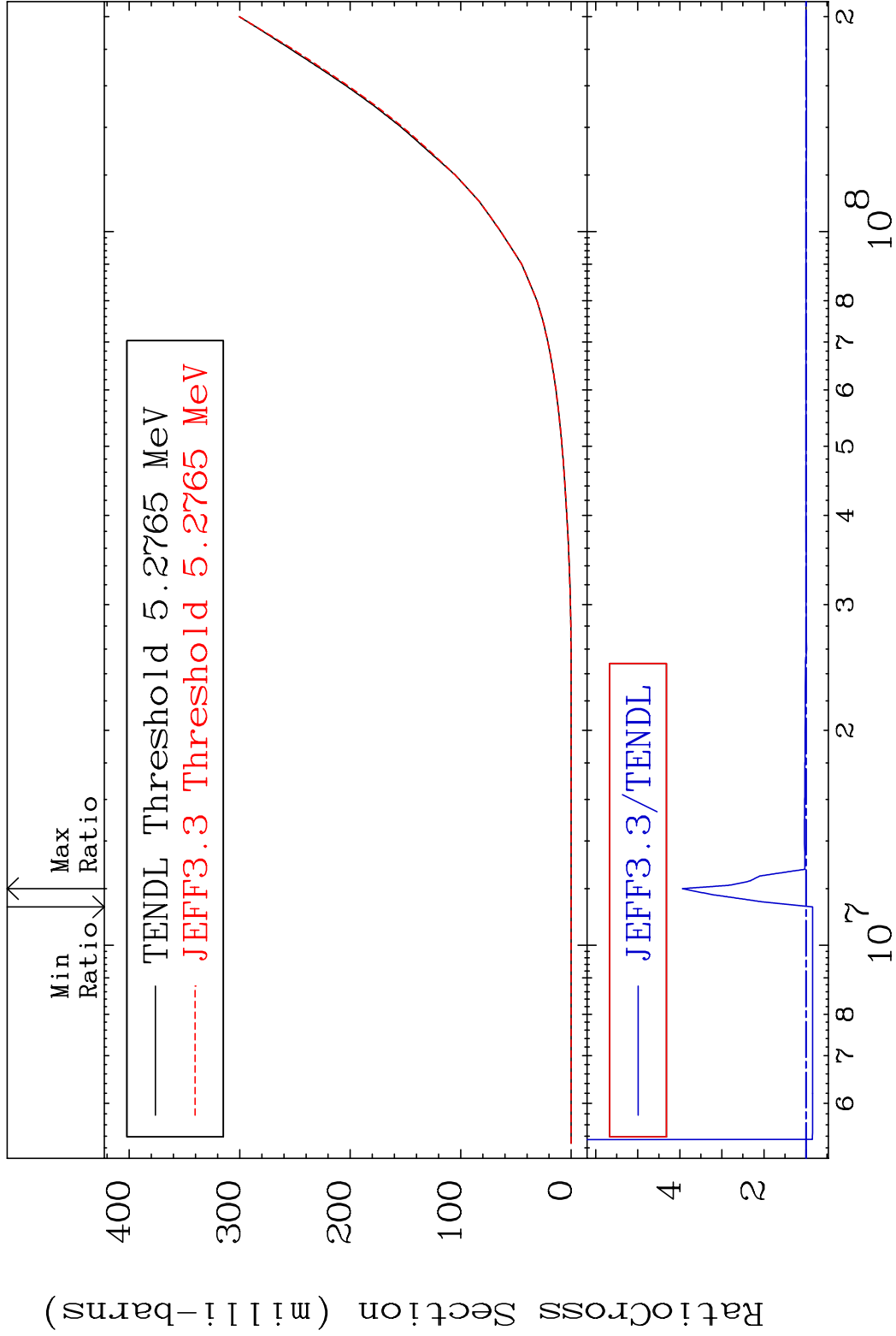


MAT 7034

He-3 Production

70-Yb-171

Cross Section -15.53 To 294.0 %



67

Incident Energy (eV)

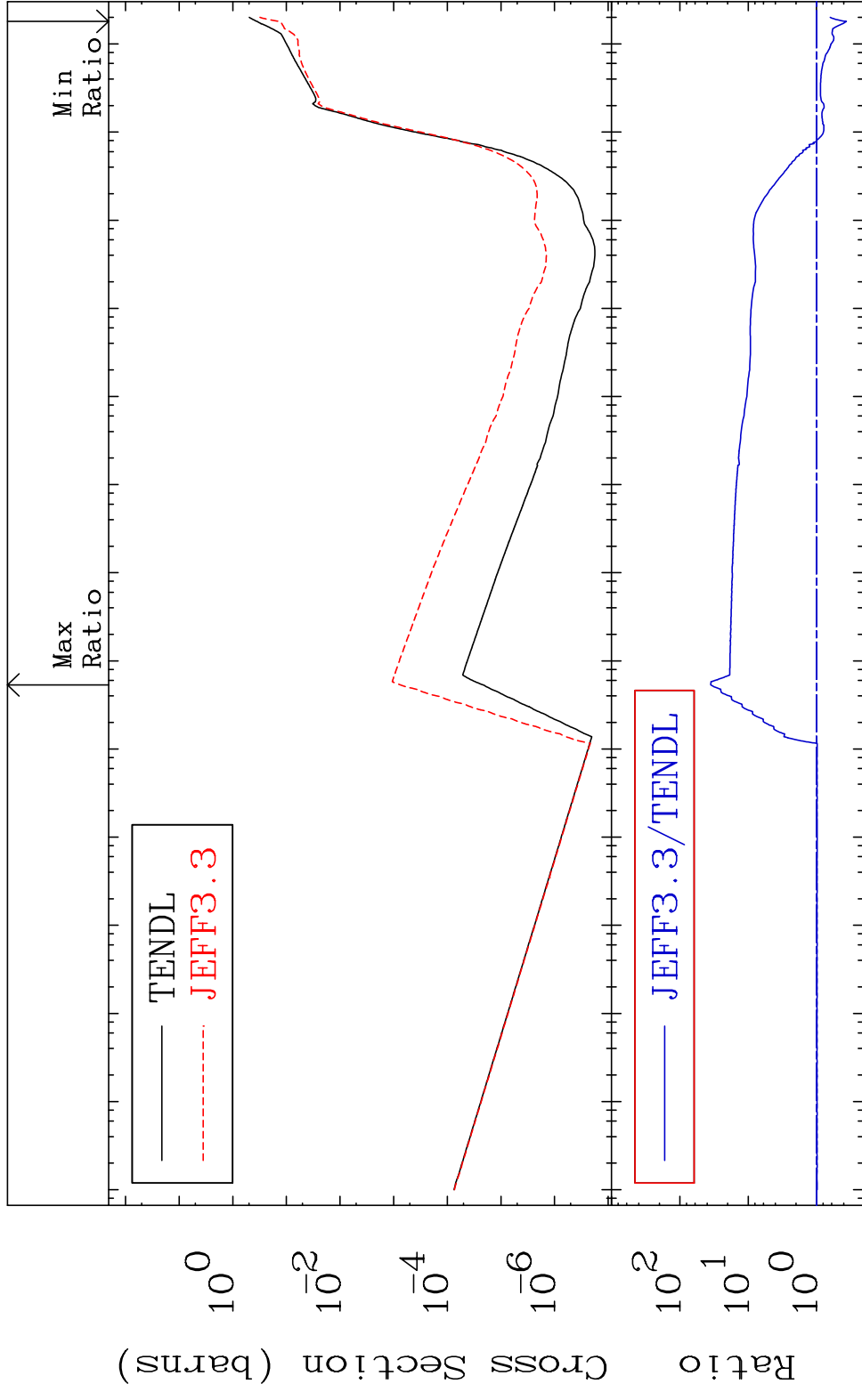
70-Yb-171

MAT 7034

He-4 Production

70-Yb-171

Cross Section -63.34 To 3440. %



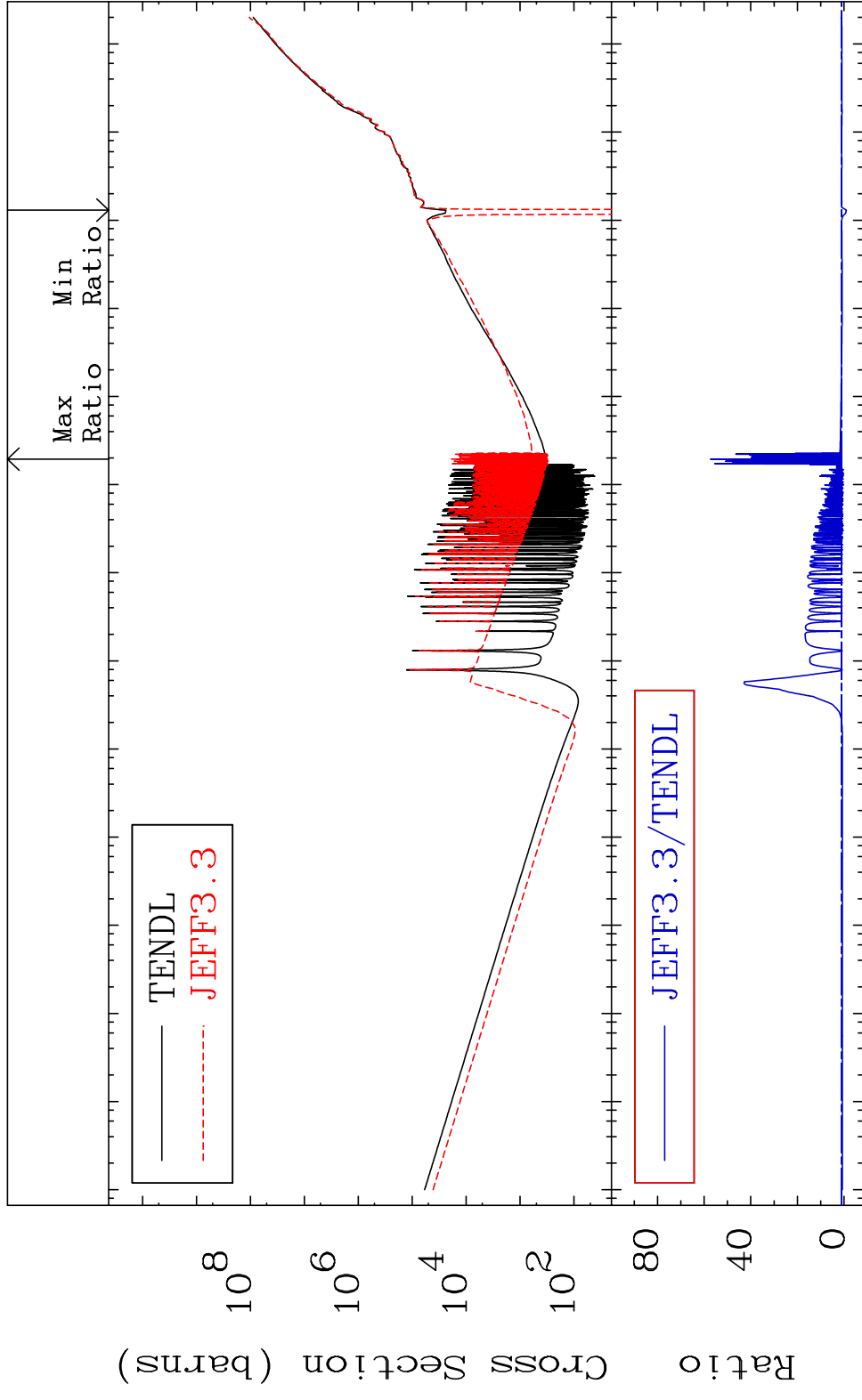
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

68

Incident Energy (eV)

70-Yb-171

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



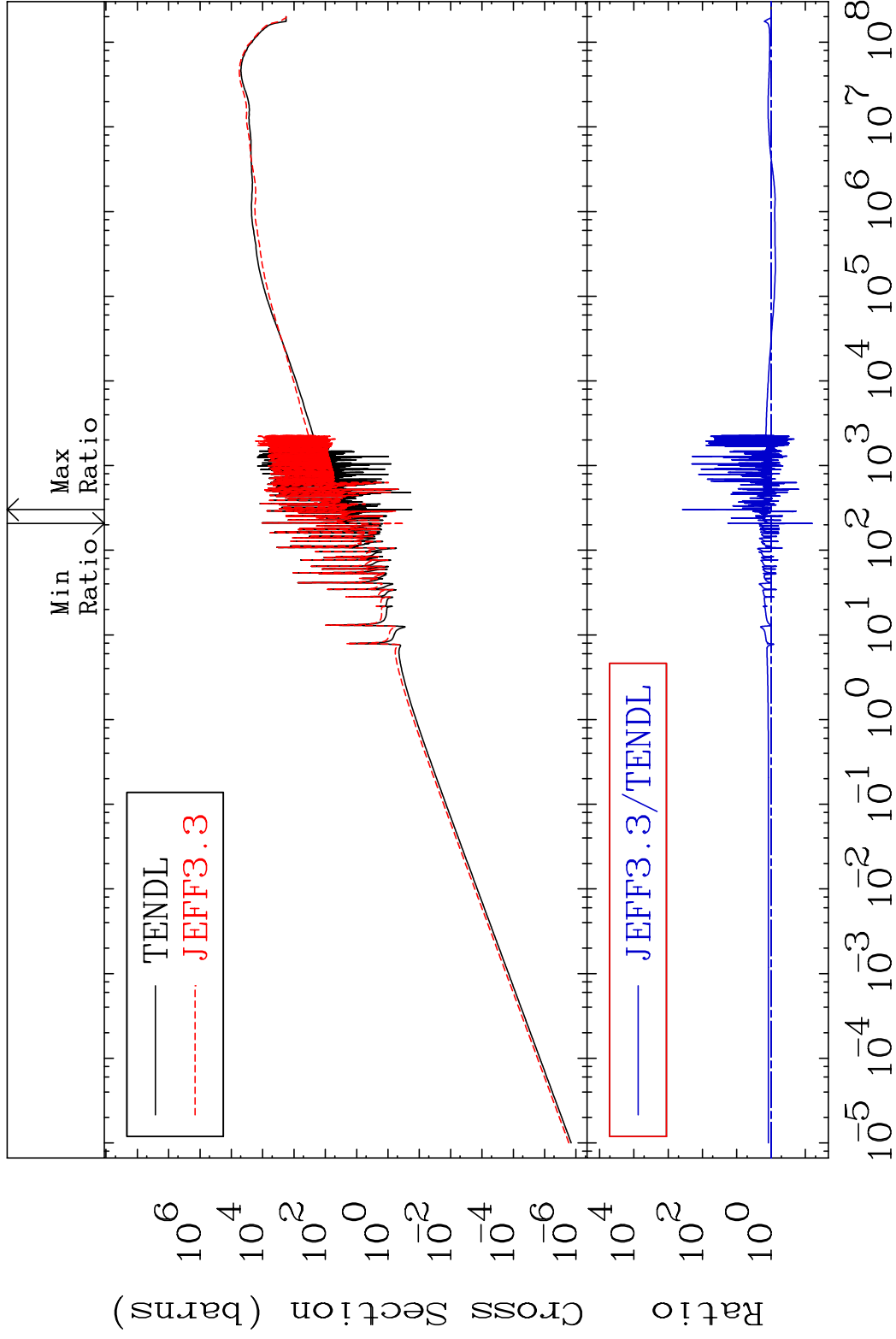
69 Incident Energy (eV) 70-Yb-171

MAT 7034

Kerma elastic

70-Yb-171

Cross Section -93.85 To 9999. %

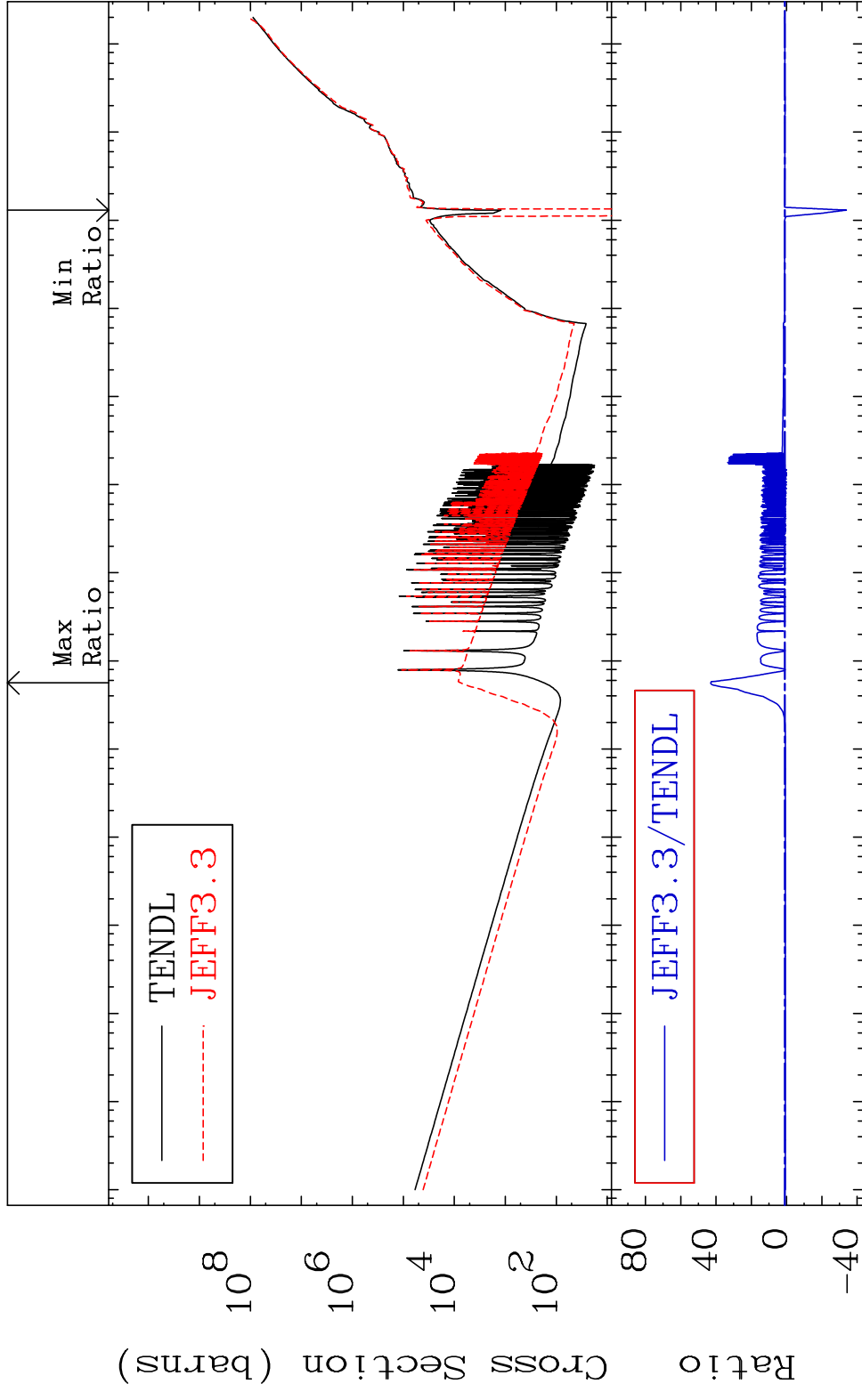


70

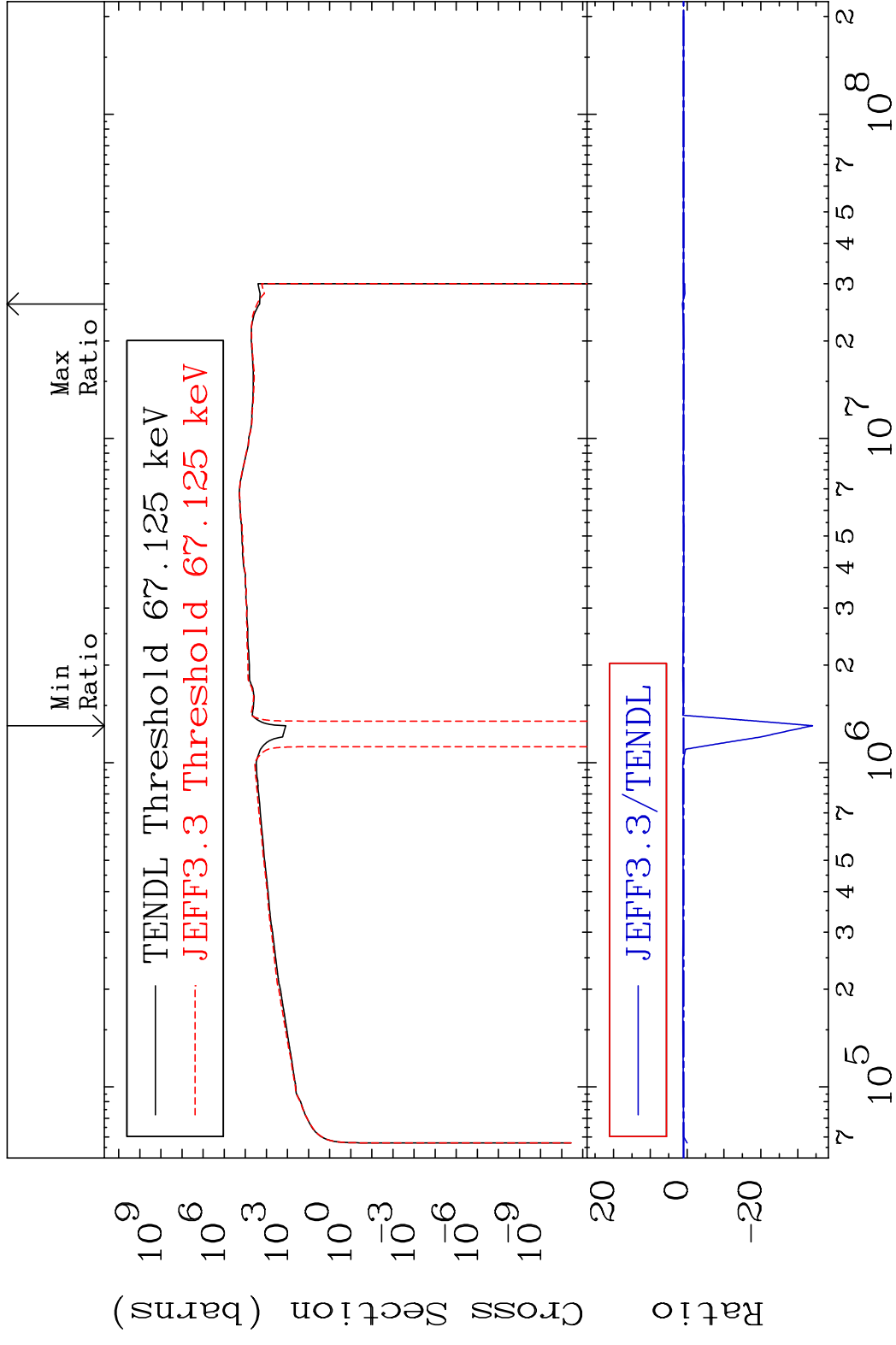
Incident Energy (eV)

70-Yb-171

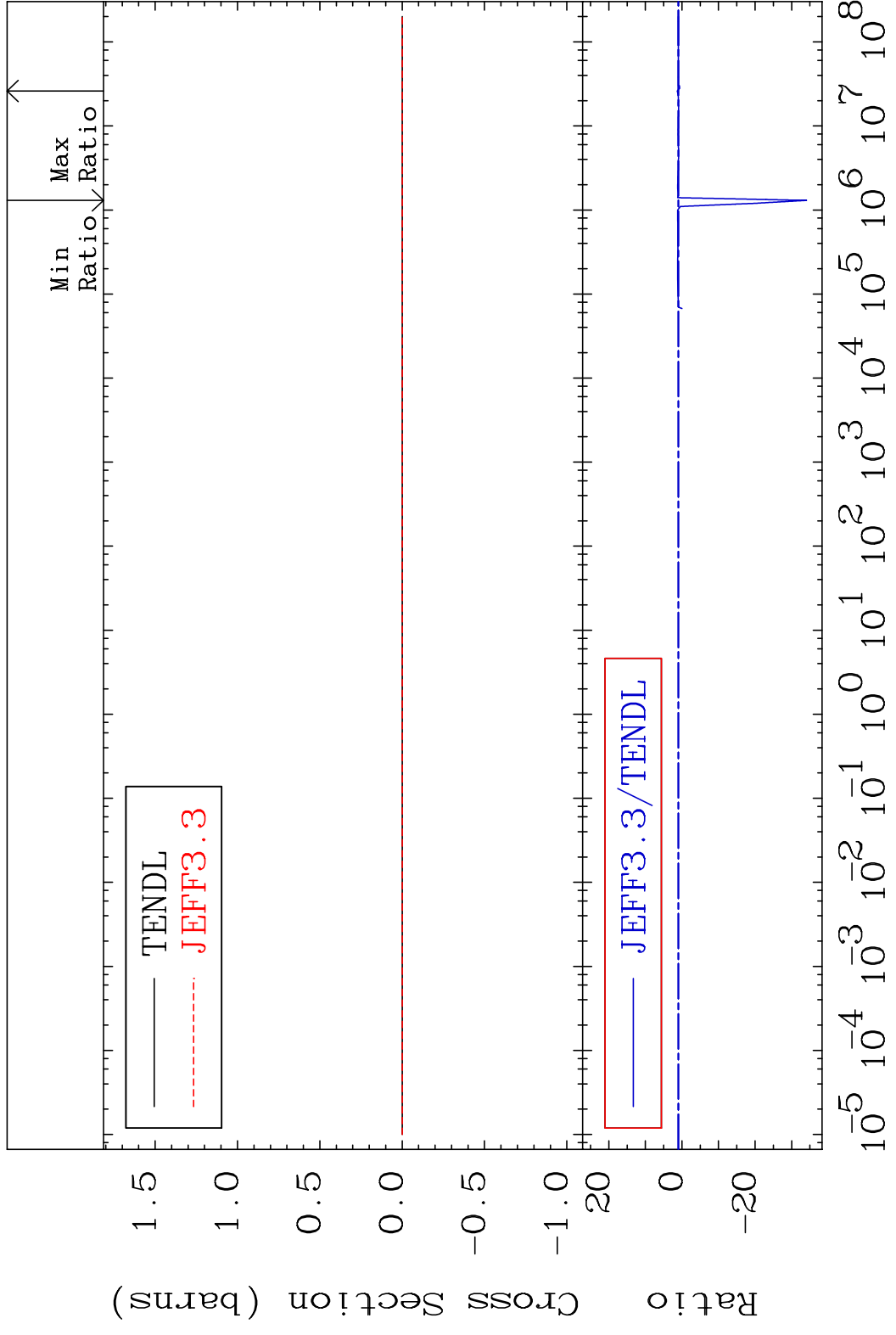
MAT 7034 Kerma non-elastic (all but mt2) 70-Yb-171
 Cross Section -3487. To 4200. %



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

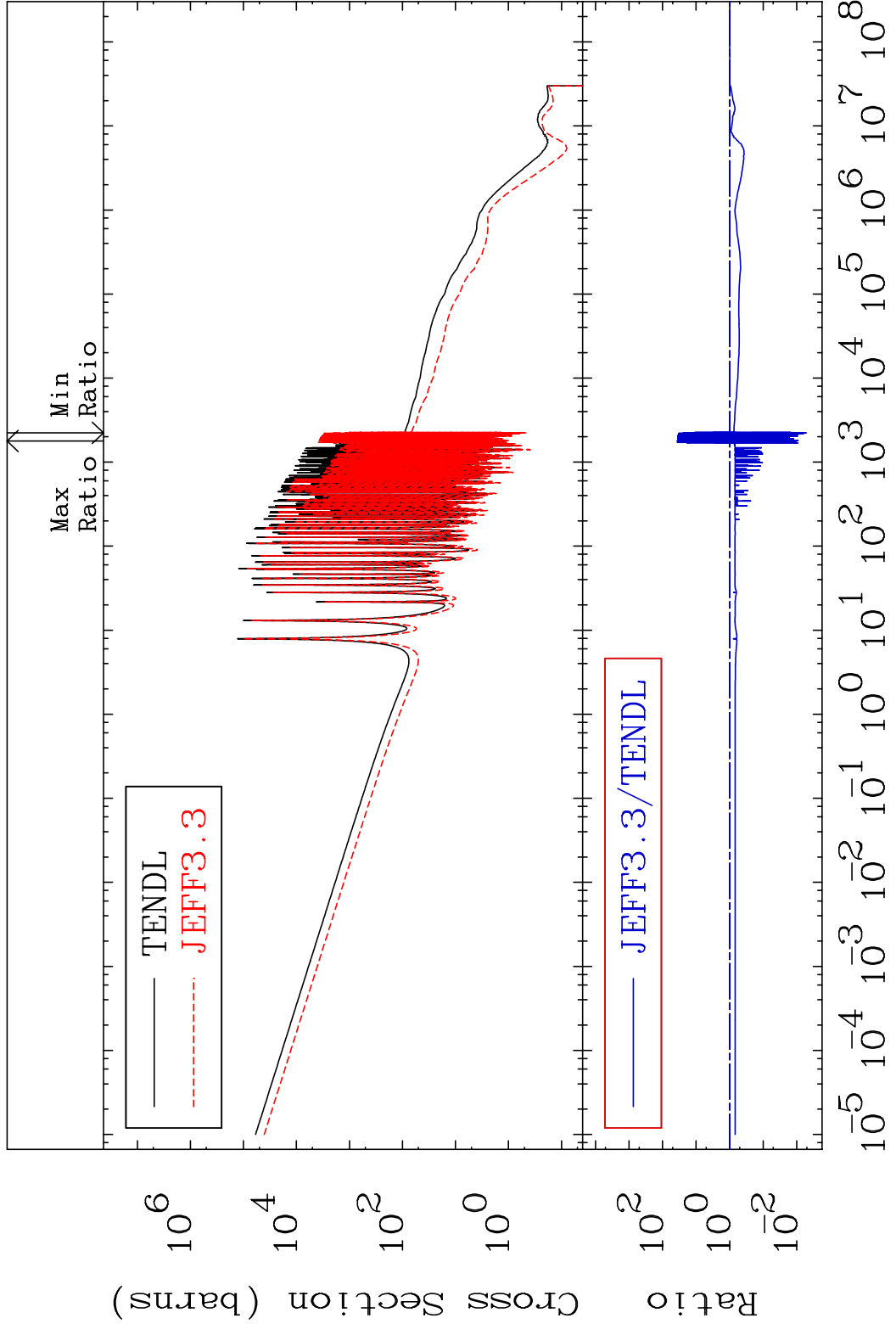


MAT 7034 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-171
 Cross Section -3504. To 30.66 %



MAT 7034

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

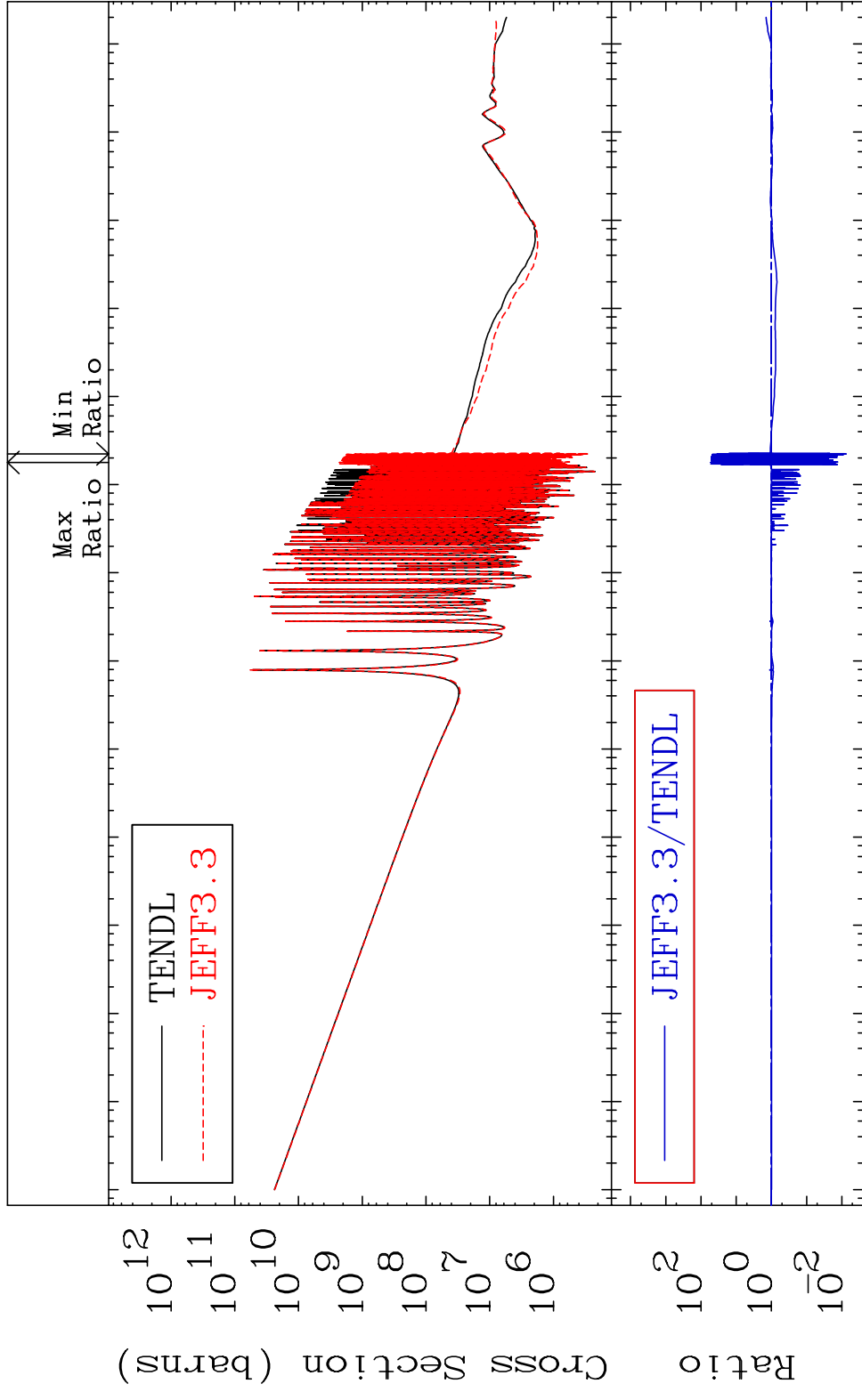


74

Incident Energy (eV) 70-Yb-171

MAT 7034

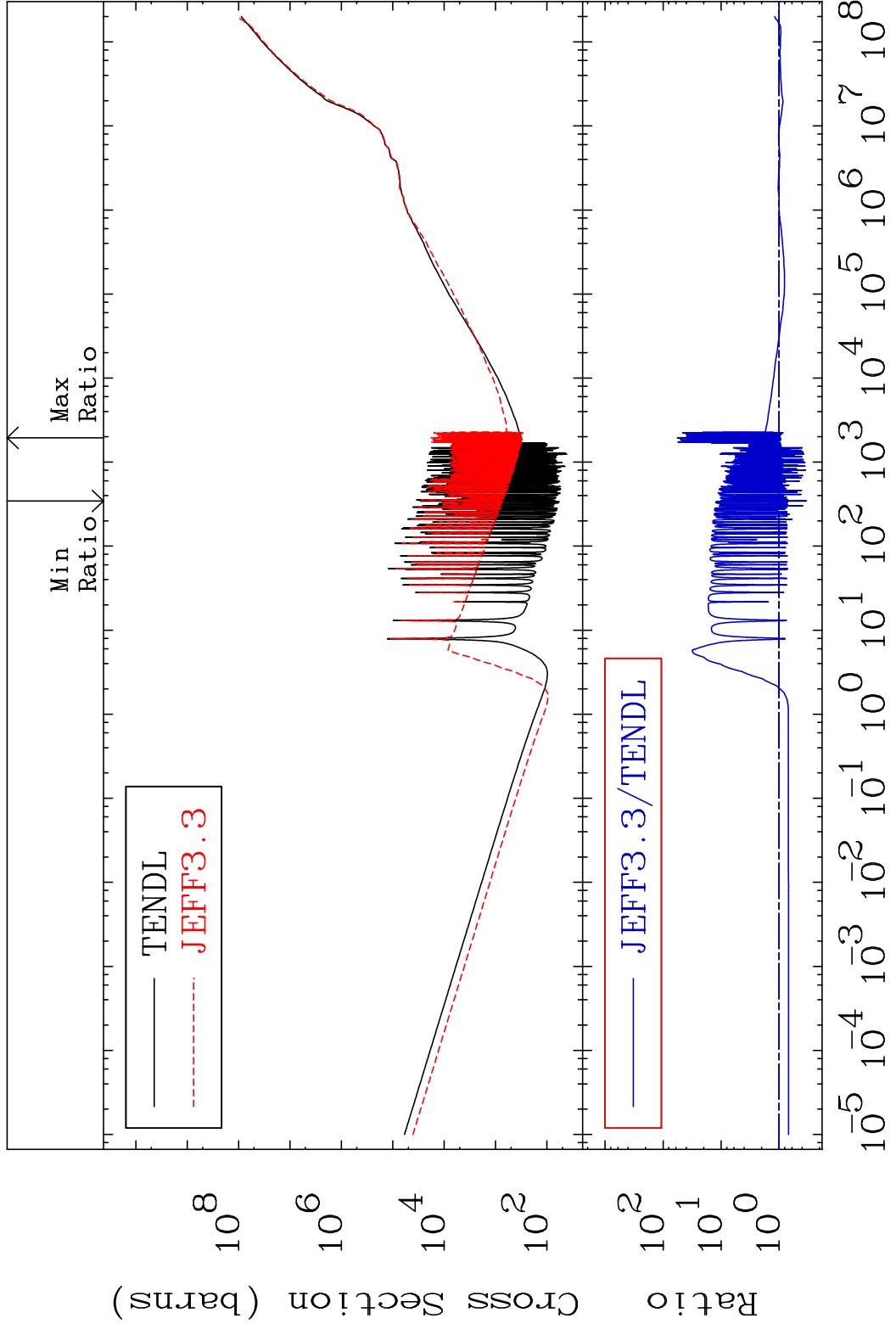
Total photon (eV-barns) 70-Yb-171
Cross Section -99.26 To 5193. %



75

Incident Energy (eV) 70-Yb-171

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

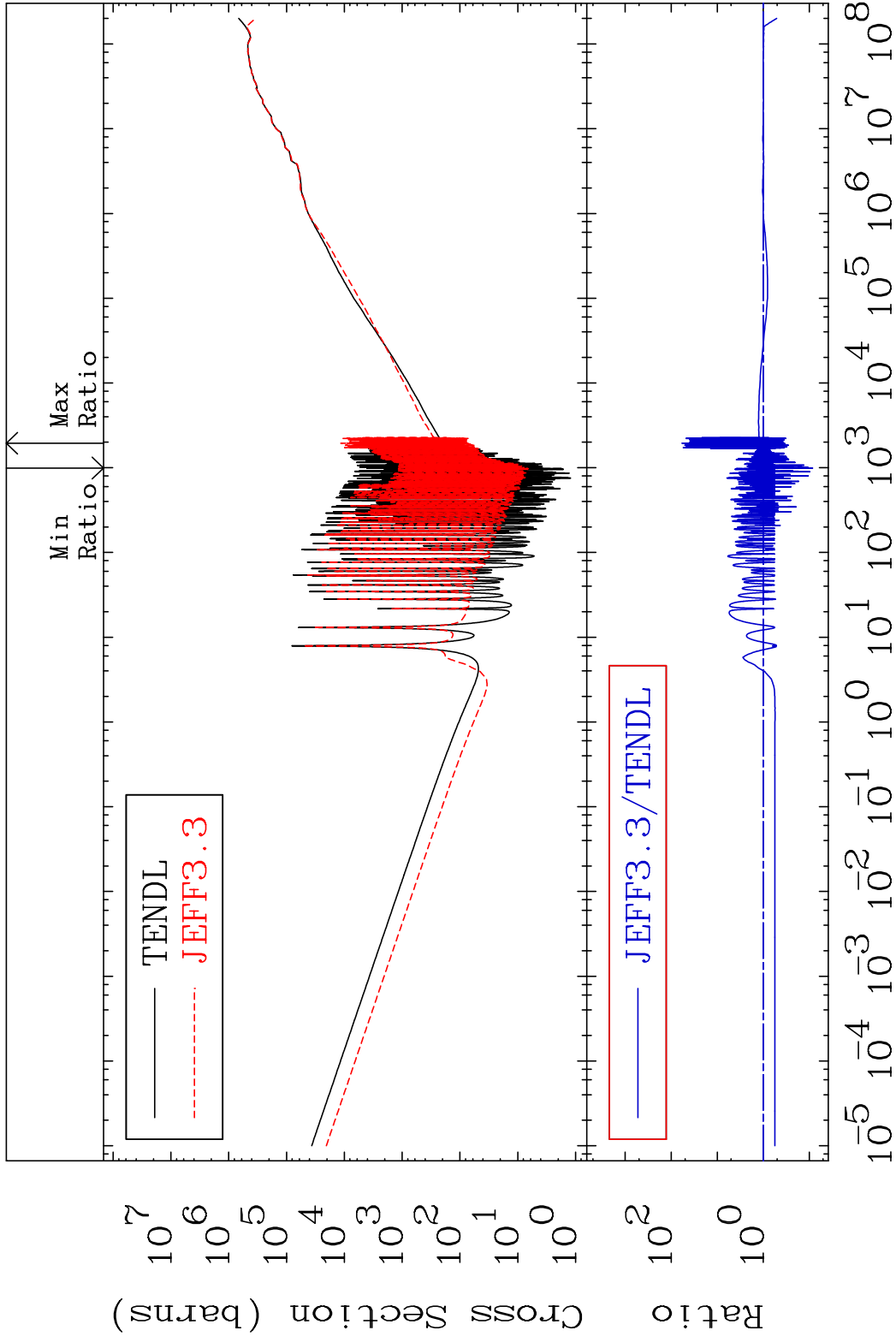


MAT 7034

Dpa total (eV-barns)

70-Yb-171

Cross Section -91.48 To 5690. %



77

Incident Energy (eV)

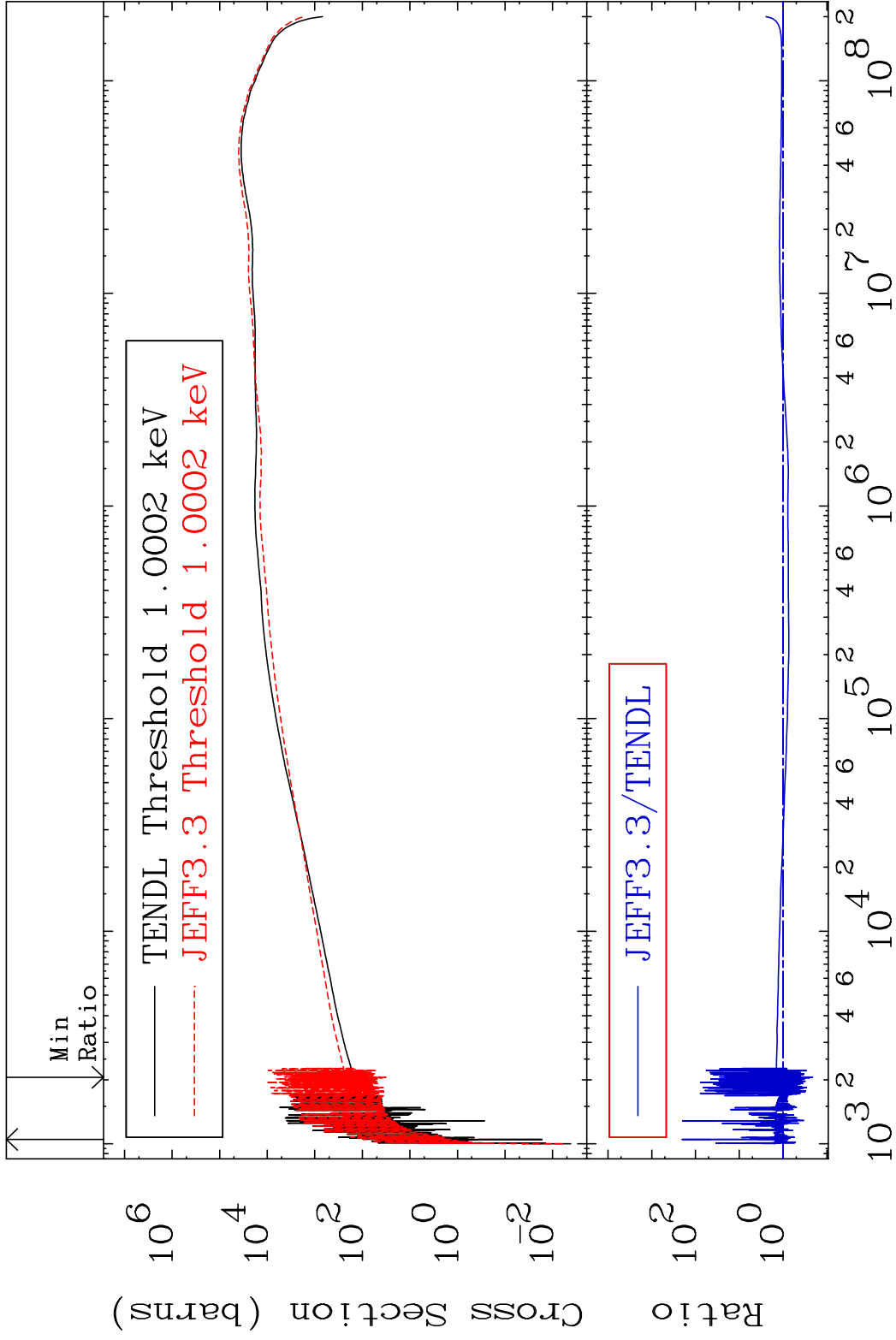
70-Yb-171

MAT 7034

Dpa elastic (mt2)

70-Yb-171

Cross Section -78.61 To 9999. %



78

Incident Energy (eV)

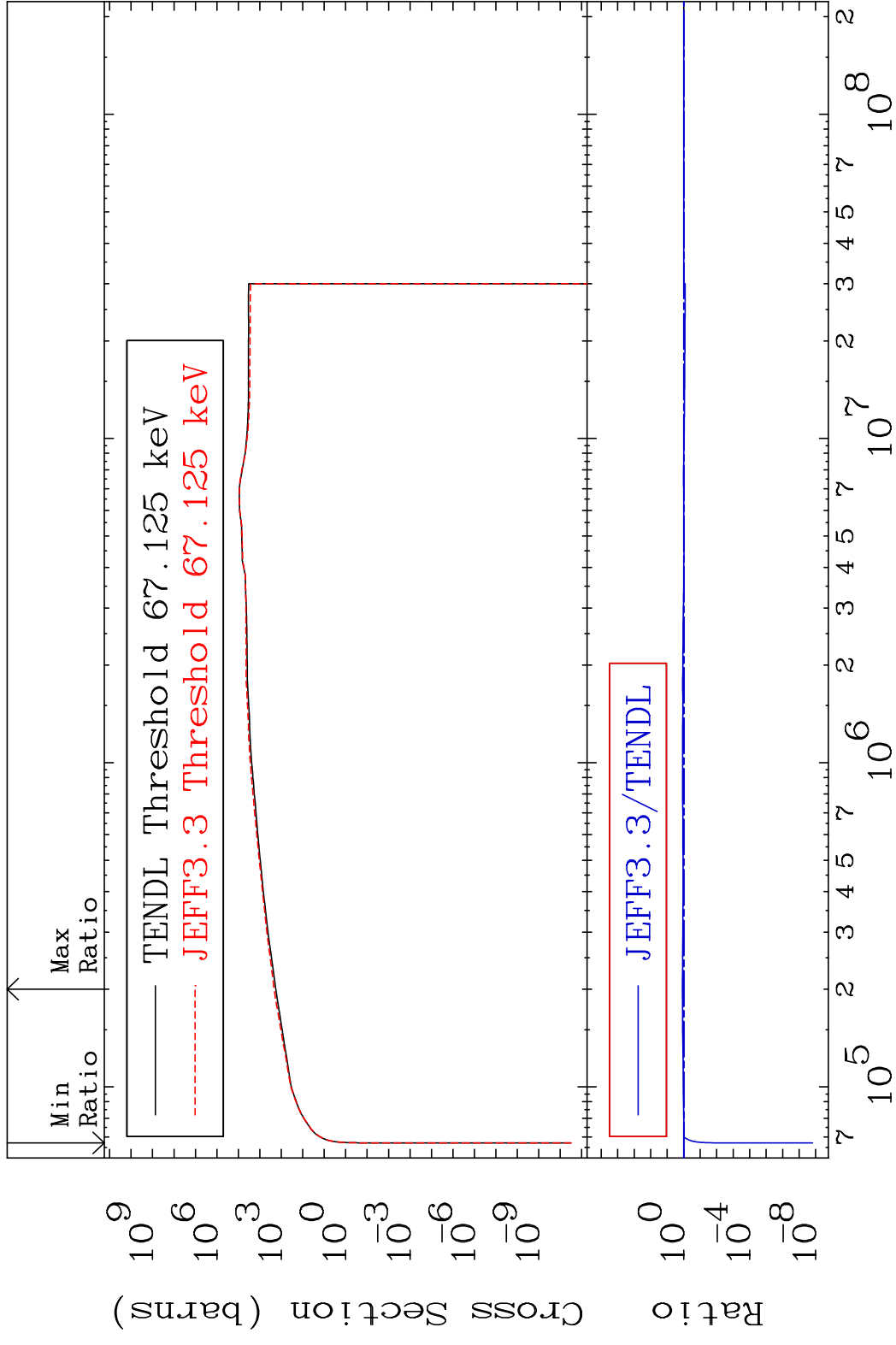
70-Yb-171

MAT 7034

Dpa inelastic (mt51-91)

70-Yb-171

Cross Section -100.0 To 20.15 %

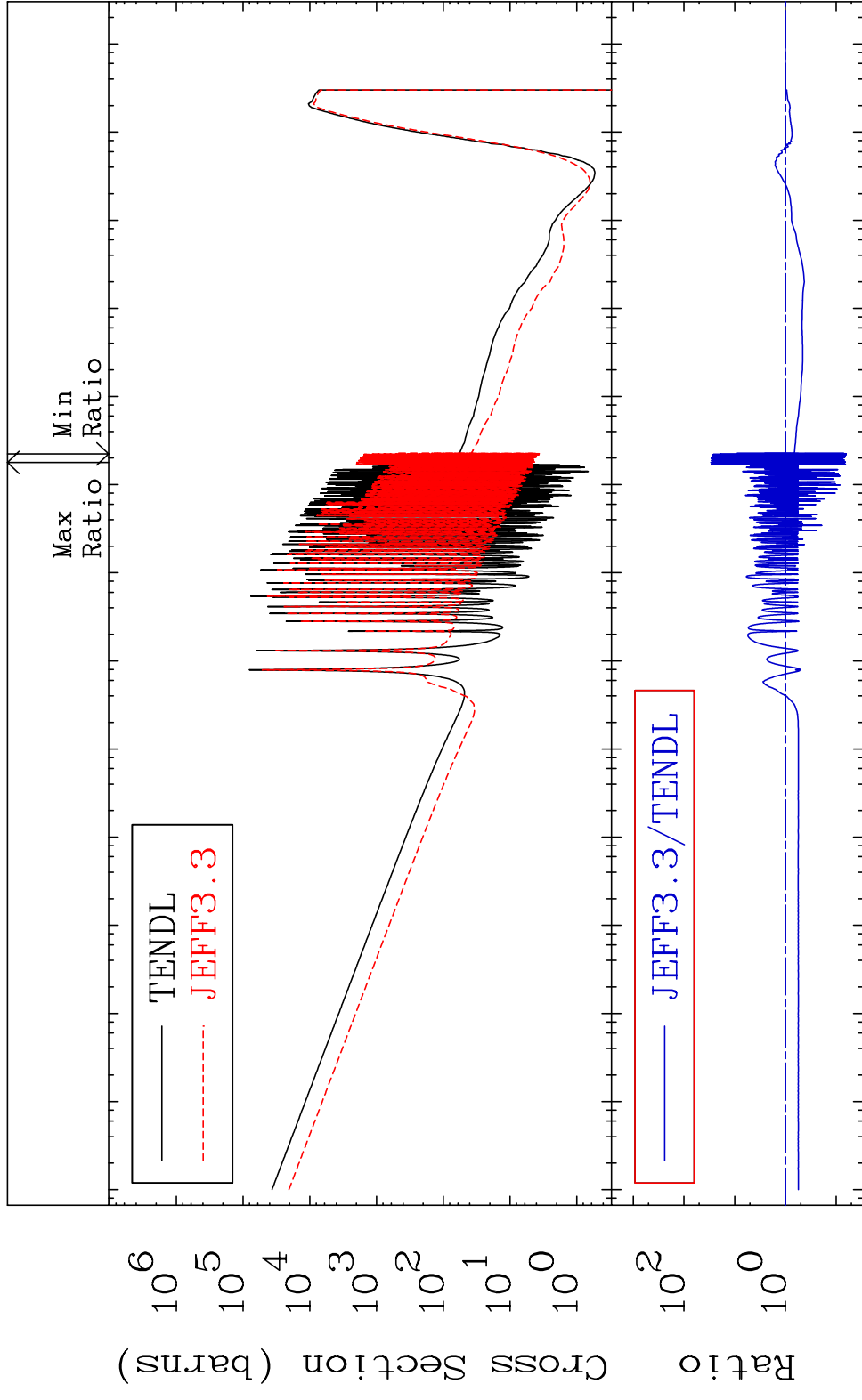


79

Incident Energy (eV)

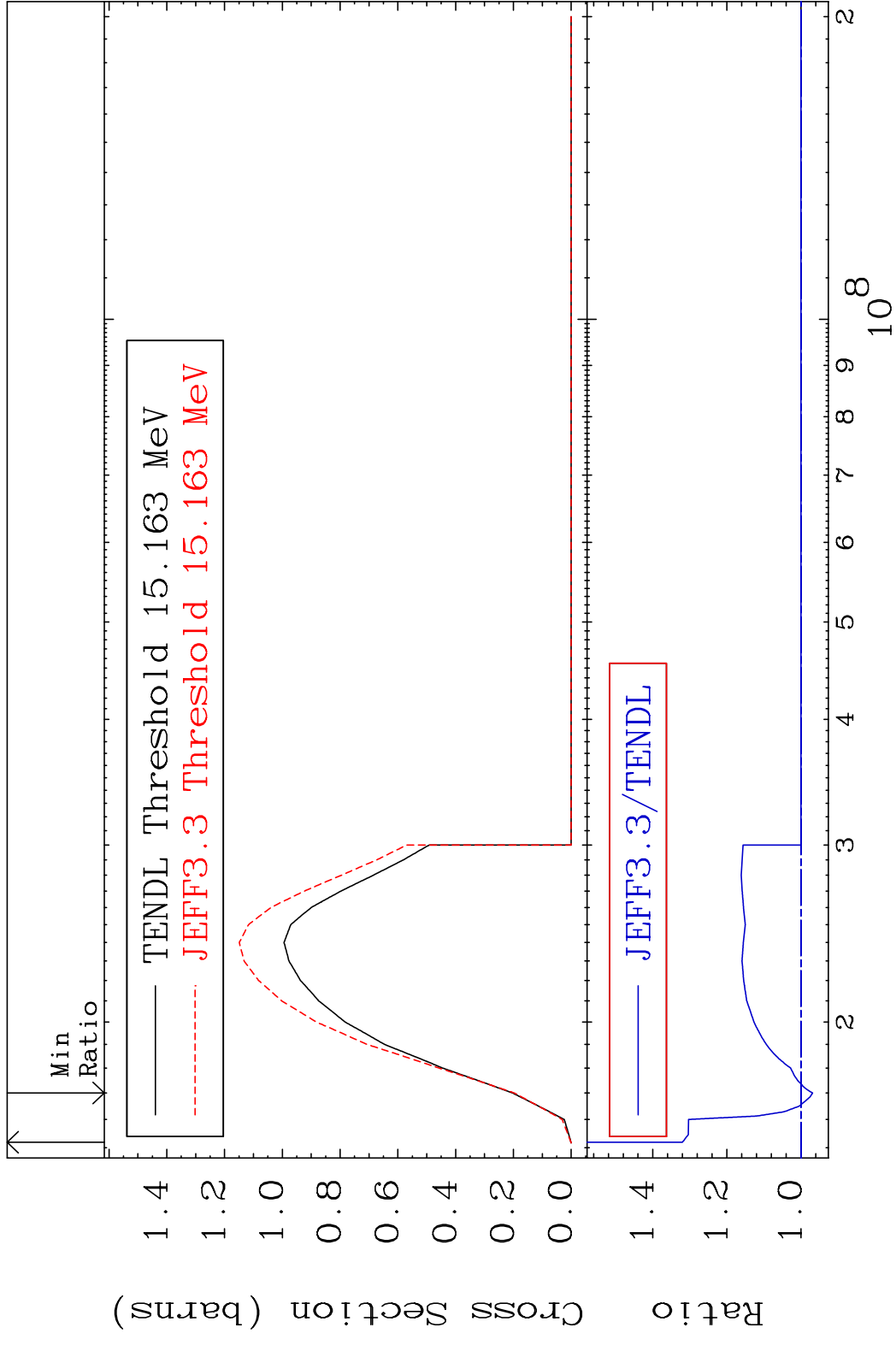
70-Yb-171

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



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

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 %

