

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

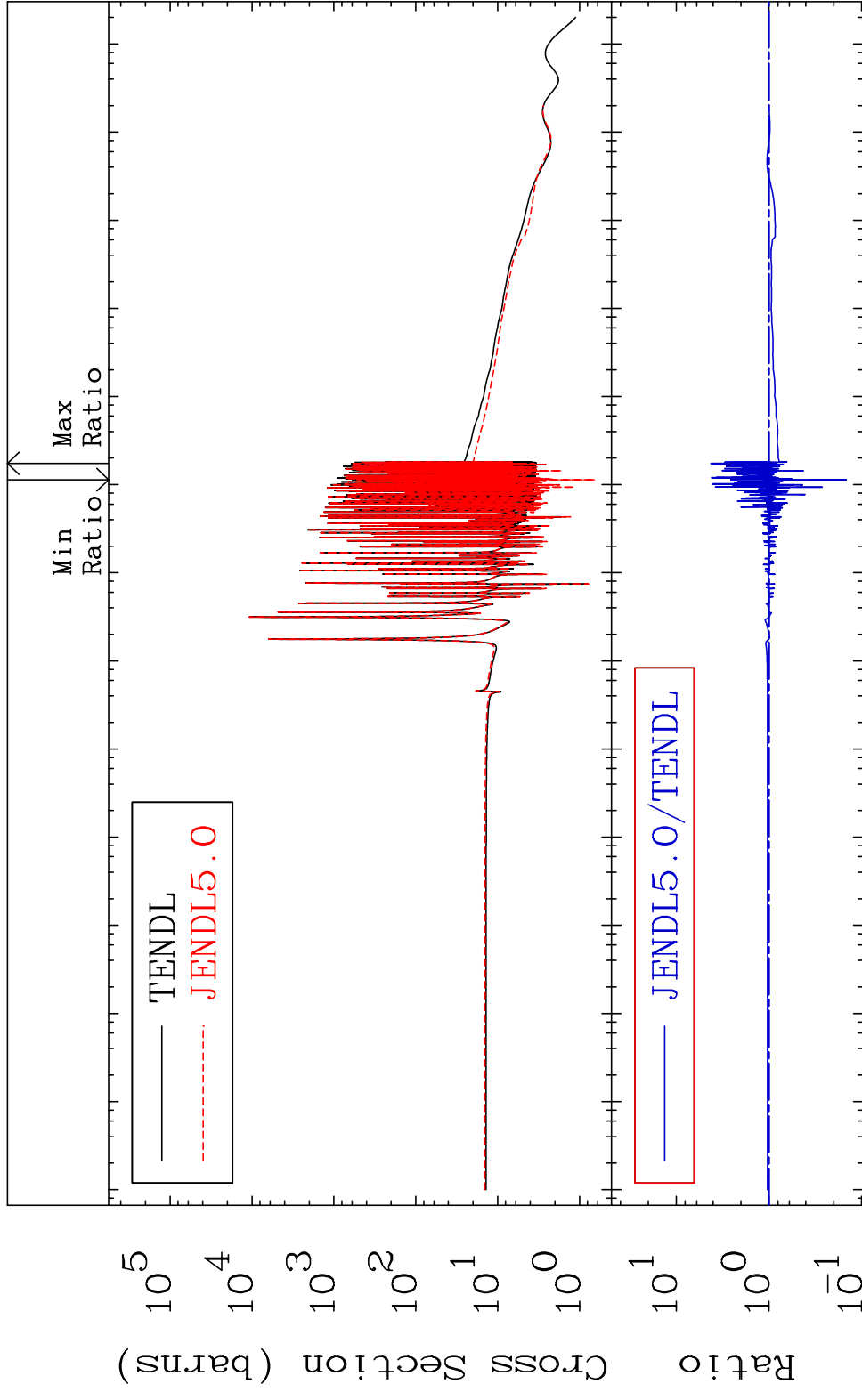
MAT 7040

Elastic

70-Yb-173

Cross Section

-85.38 To 324.3 %



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

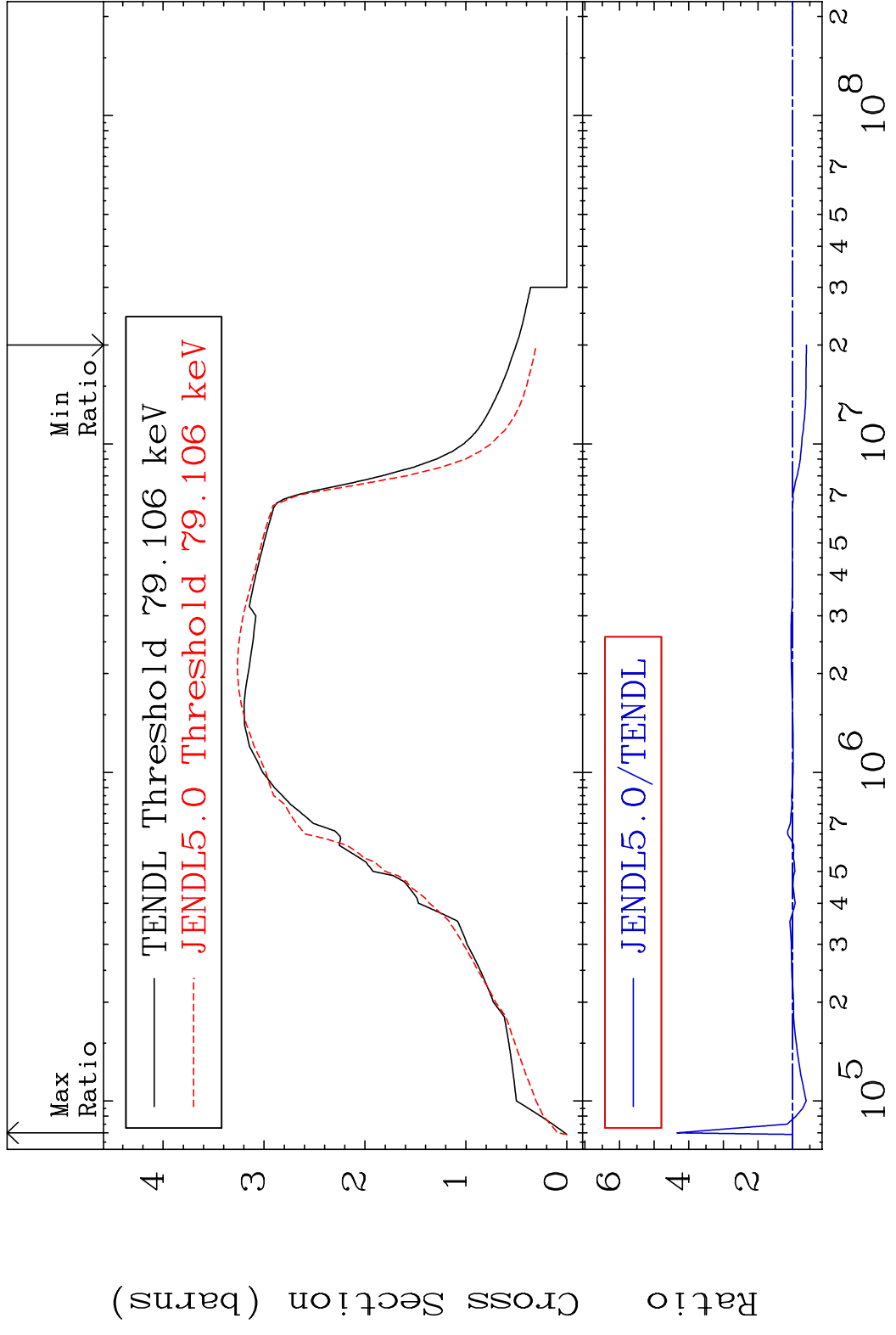
10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

2

Incident Energy (eV)

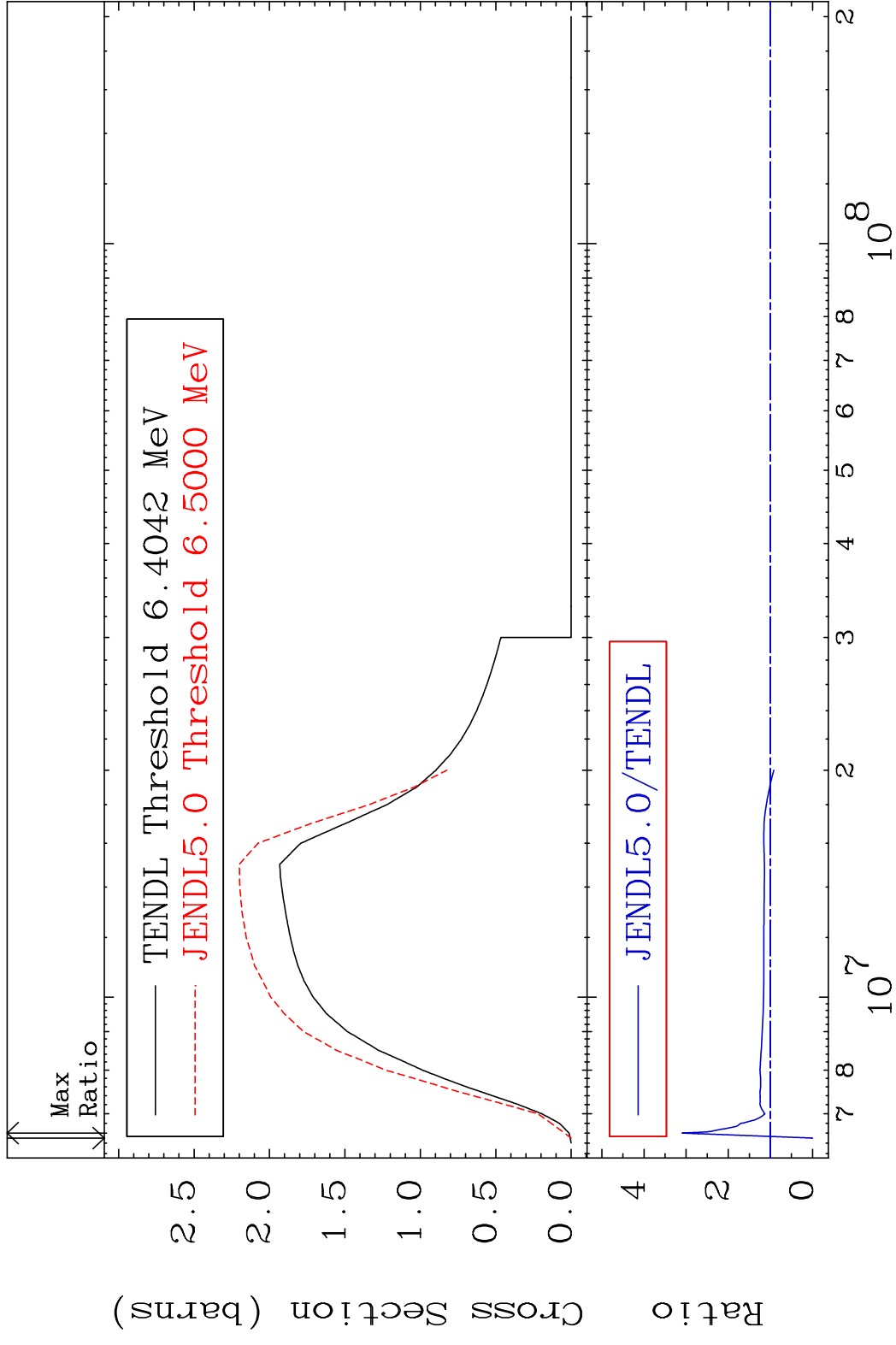
70-Yb-173

MAT 7040 Inelastic 70-Yb-173
 Cross Section -39.79 To 333.4 %



3 6 4 2 4 2 6 4 2 0 1 2 3 4 5 6 7 8 2
 70-Yb-173

MAT 7040 (n,2n) 70-Yb-173
 Cross Section -100.0 To 208.9 %



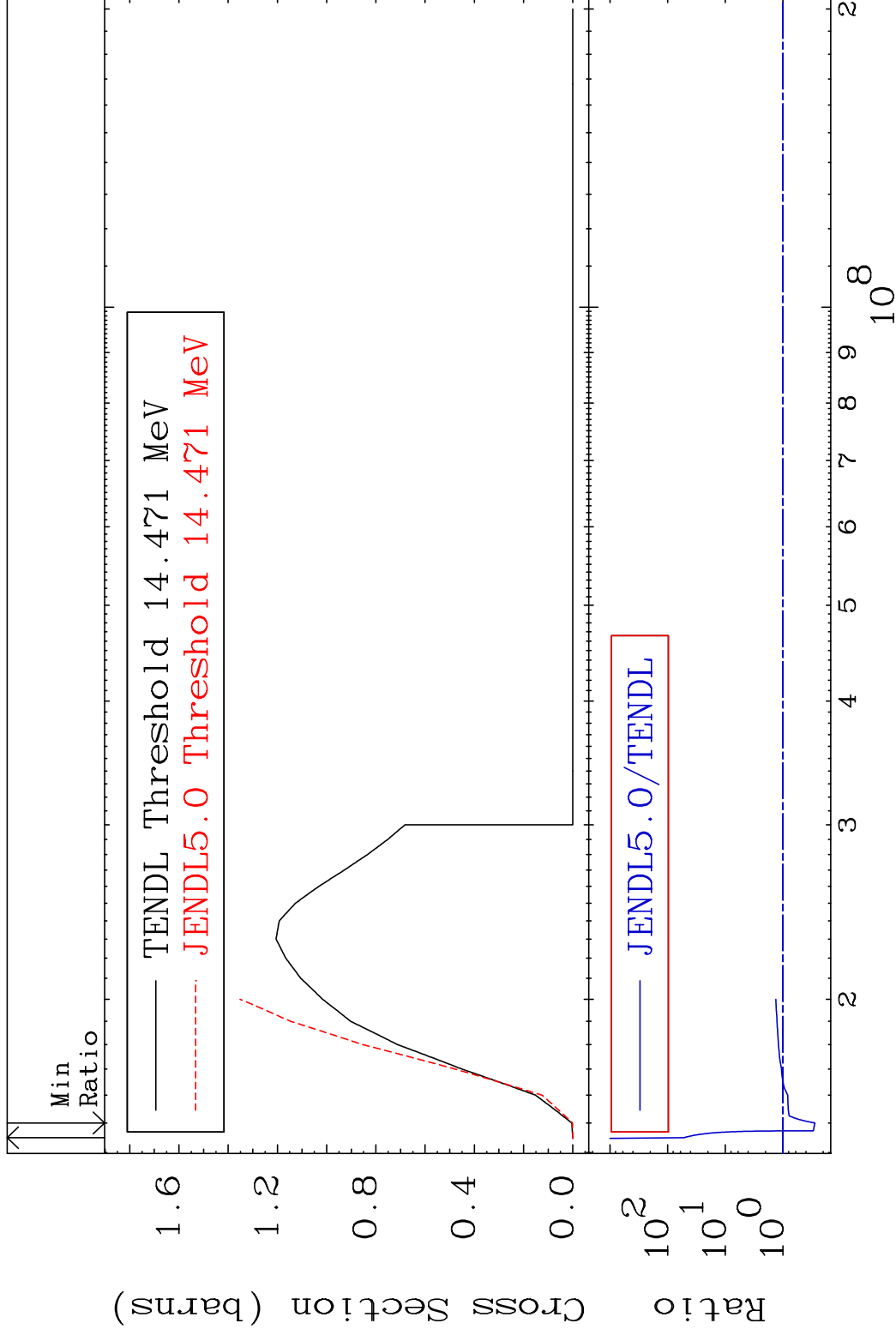
4 Incident Energy (eV) 70-Yb-173

MAT 7040

(n,3n)

70-Yb-173

Cross Section -72.04 To 5041. %



5

Incident Energy (eV)

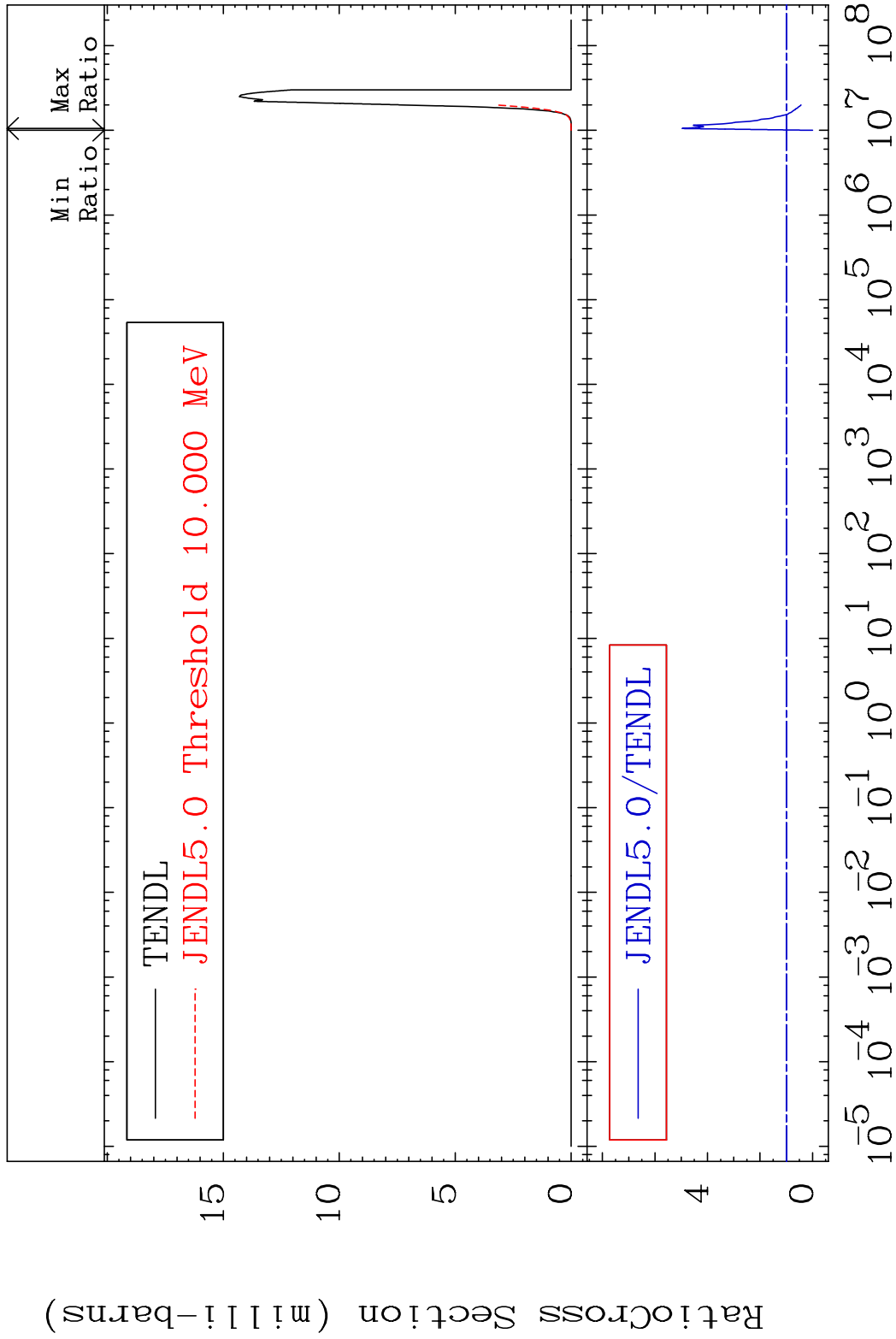
70-Yb-173

MAT 7040

(n, n') α

70-Yb-173

Cross Section -100.0 To 395.7 %



6

Incident Energy (eV)

70-Yb-173

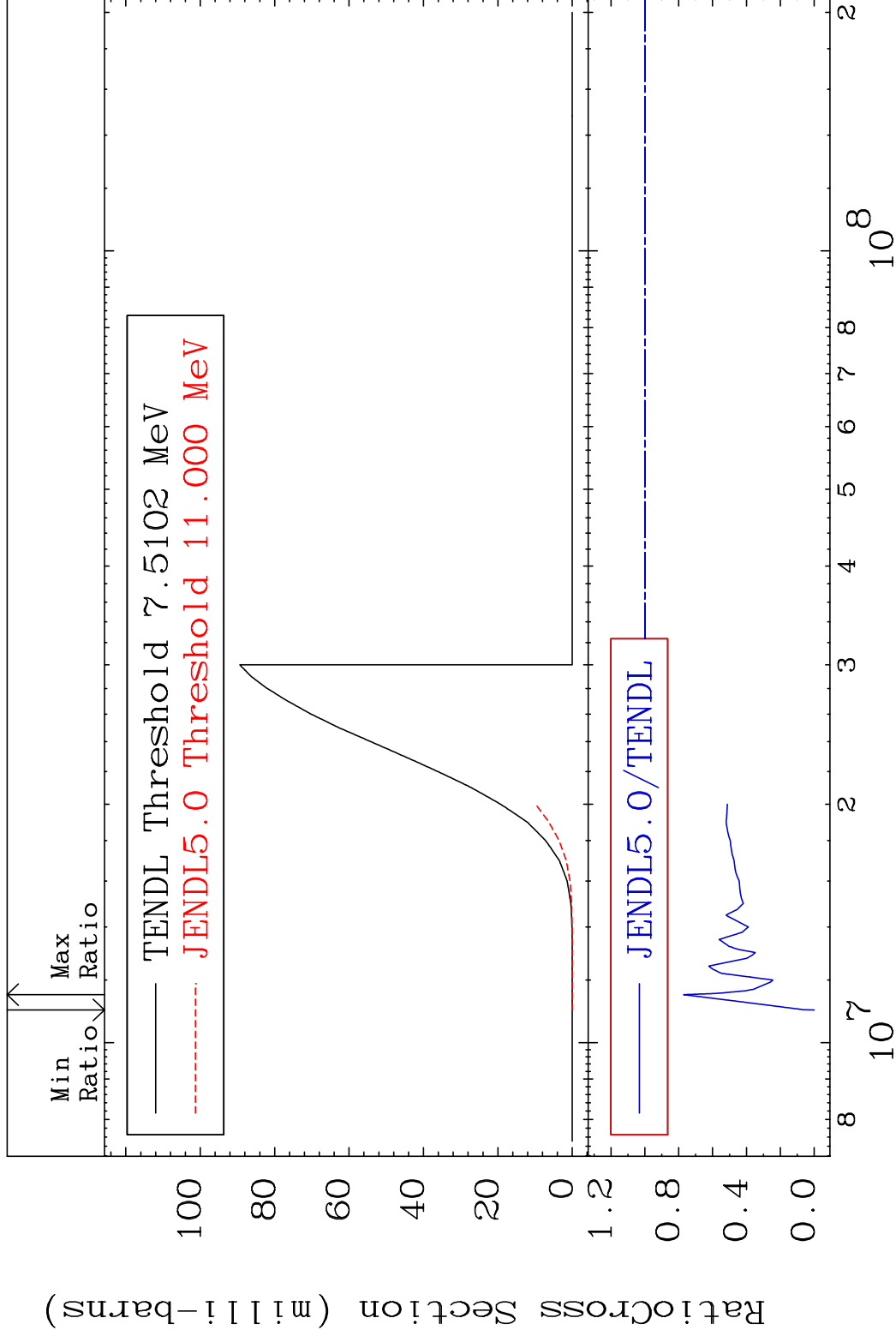
MAT 7040

(n, n') p

70-Yb-173

Cross Section

-100.0 To -22.90%



7

Incident Energy (eV)

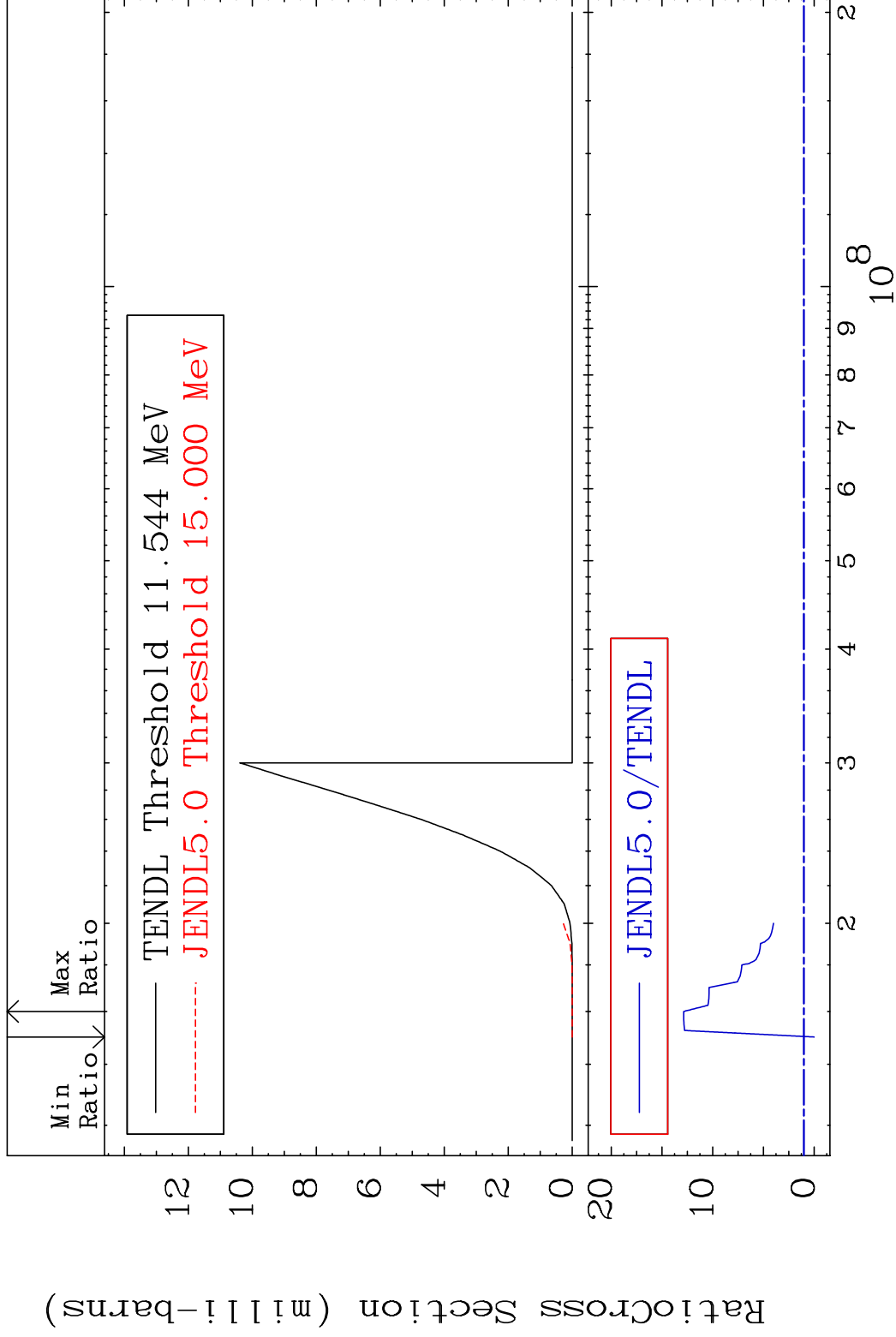
70-Yb-173

MAT 7040

(n, n') d

70-Yb-173

Cross Section -100.0 To 1186. %

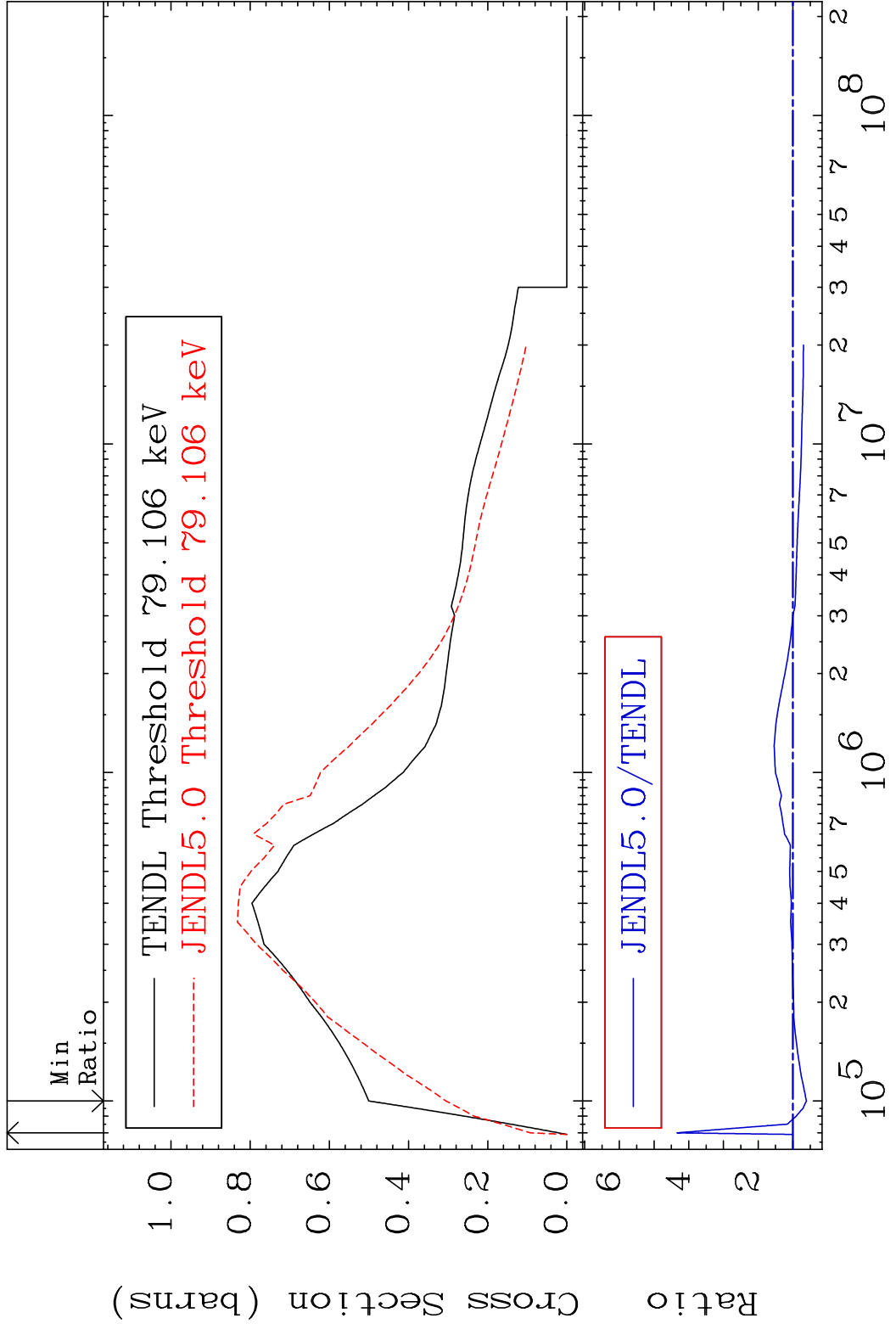


8

Incident Energy (eV)

70-Yb-173

MAT 7040 MT= 51 (n,n') Level 70-Yb-173
 Cross Section -39.00 To 333.4 %



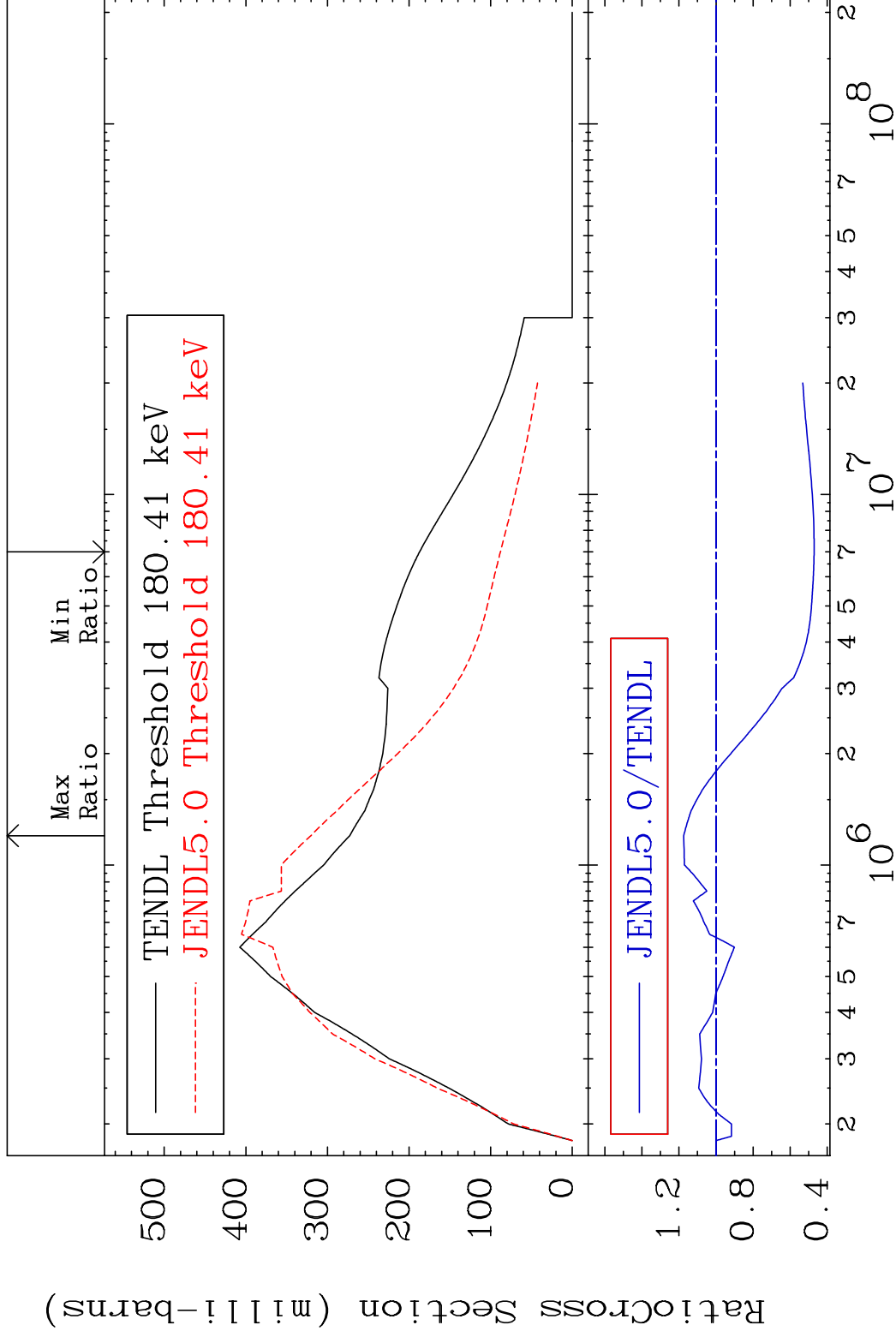
9 Incident Energy (eV) 70-Yb-173

MAT 7040

MT= 52 (n, n') Level

70-Yb-173

Cross Section -52.93 To 17.47 %

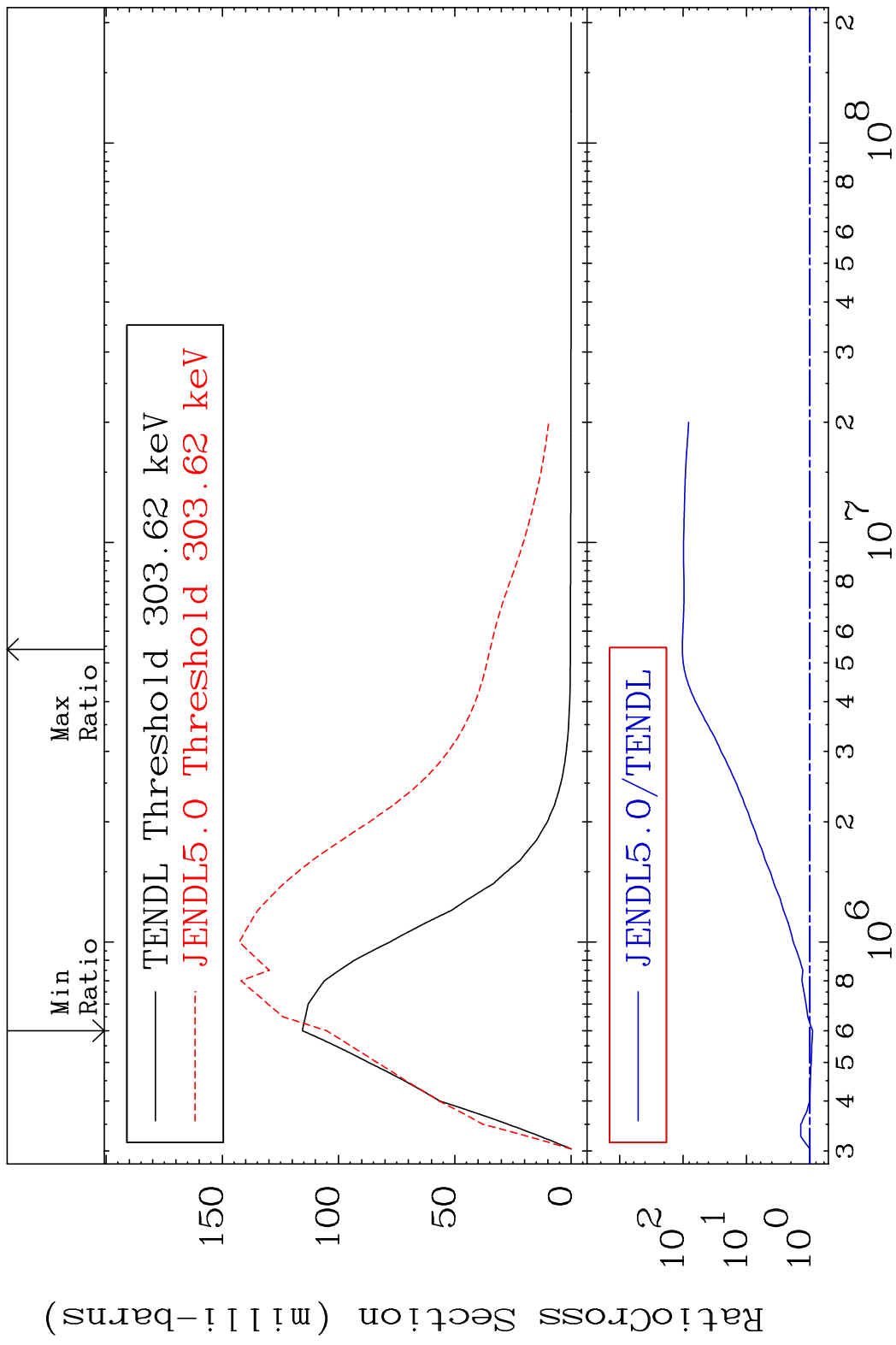


10

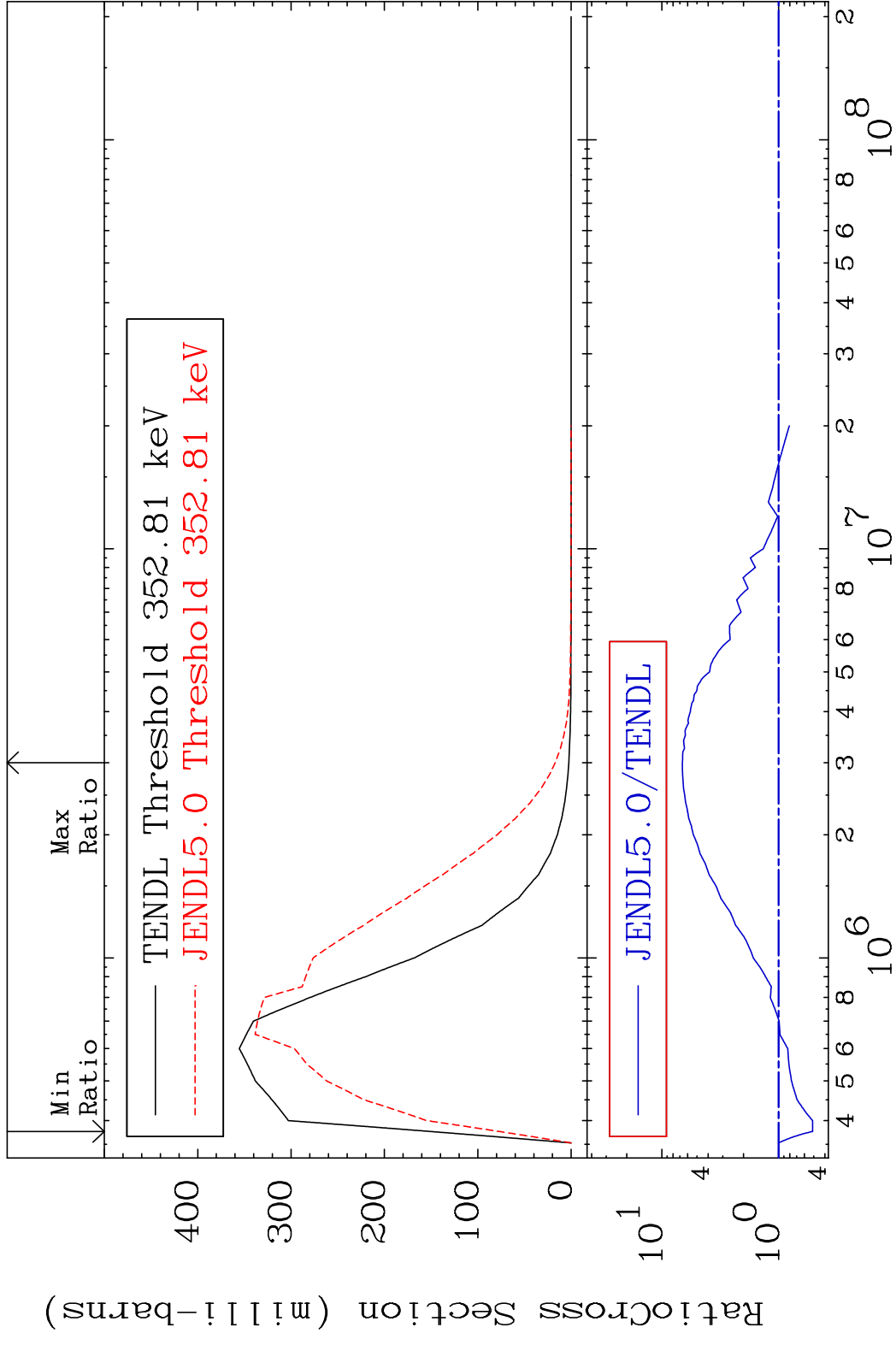
Incident Energy (eV)

70-Yb-173

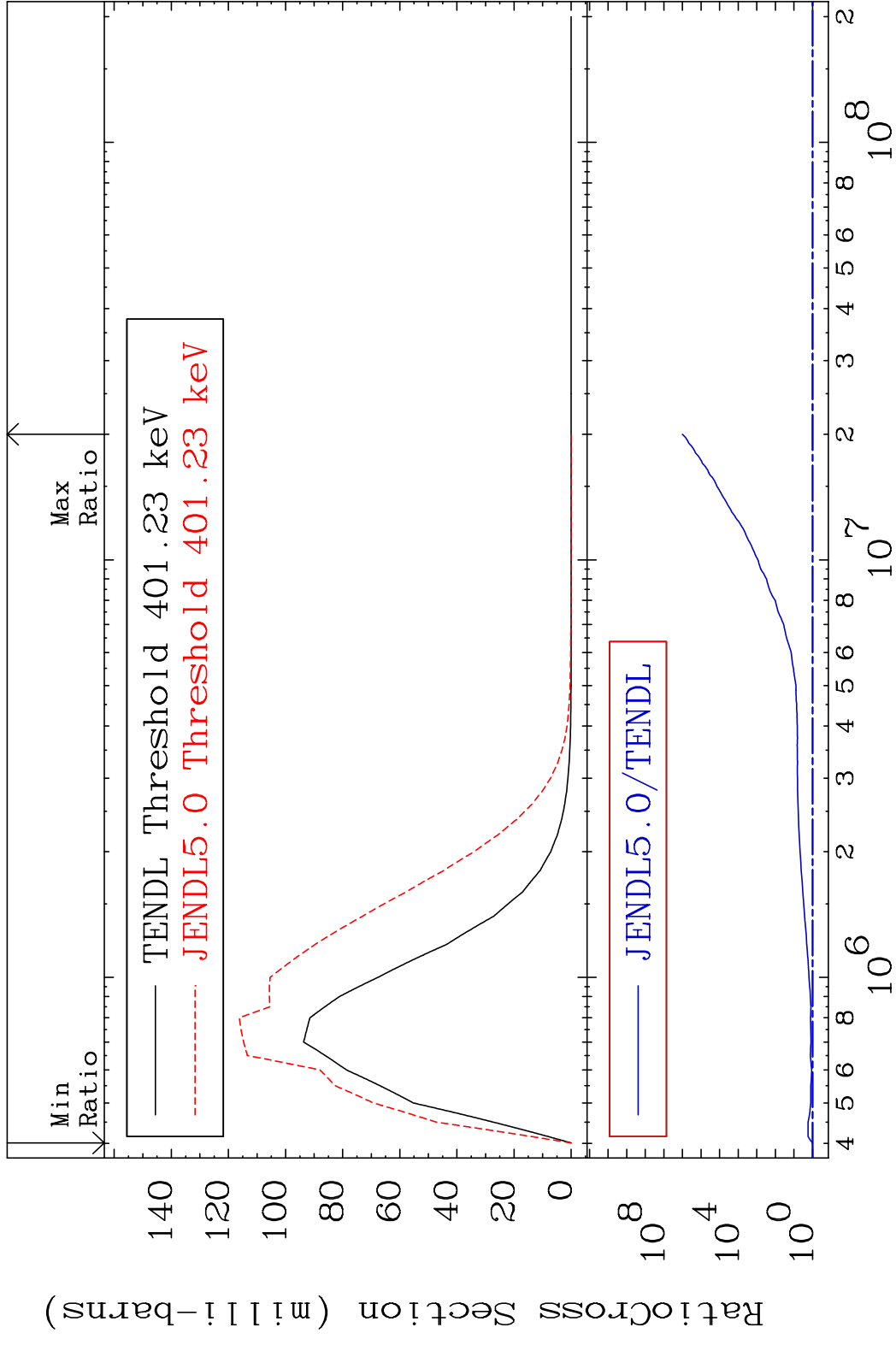
MAT 7040 MT= 53 (n, n') Level 70-Yb-173
 Cross Section -8.975 To 9999. %



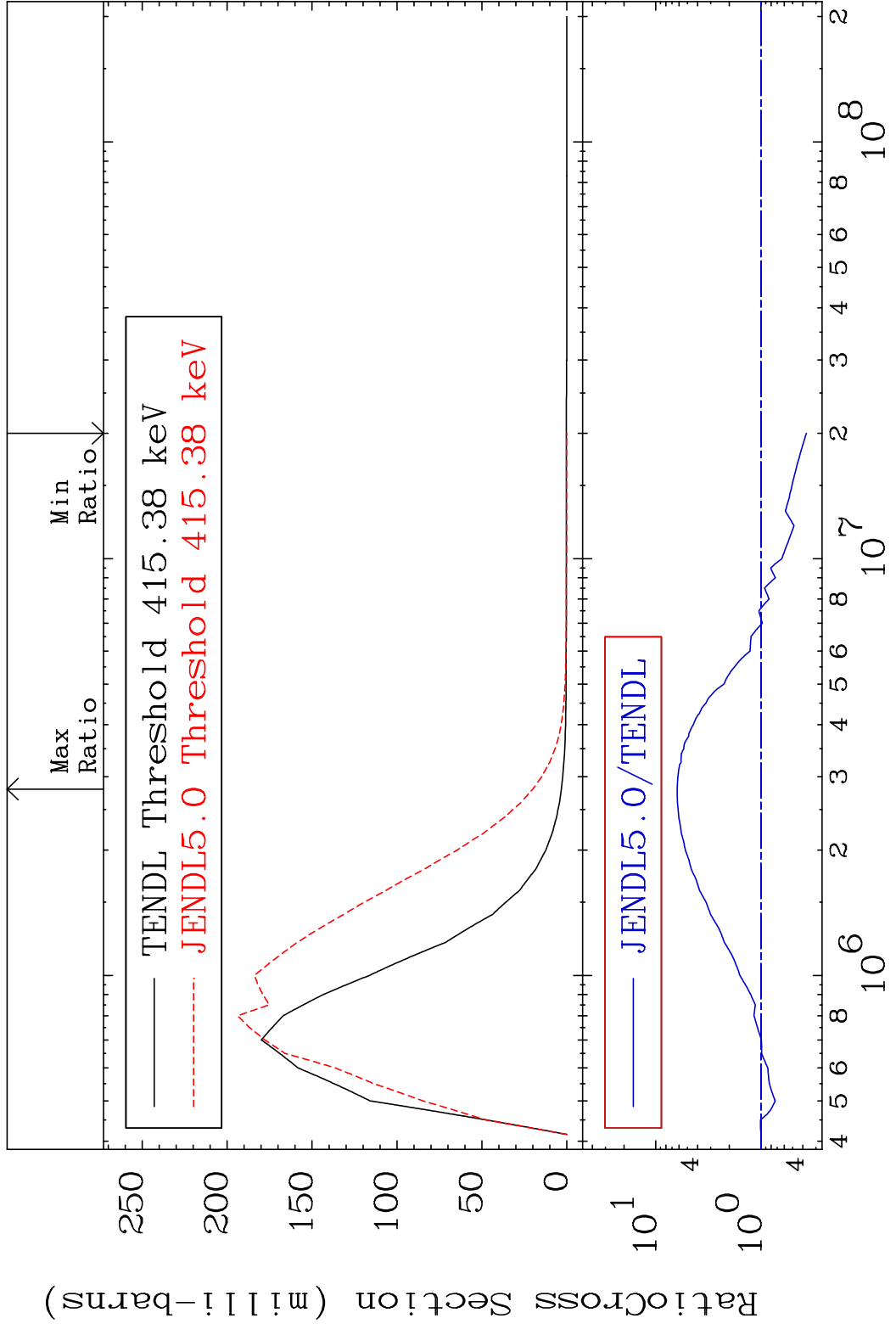
MAT 7040 MT= 54 (n,n') Level 70-Yb-173
 Cross Section -48.92 To 567.1 %



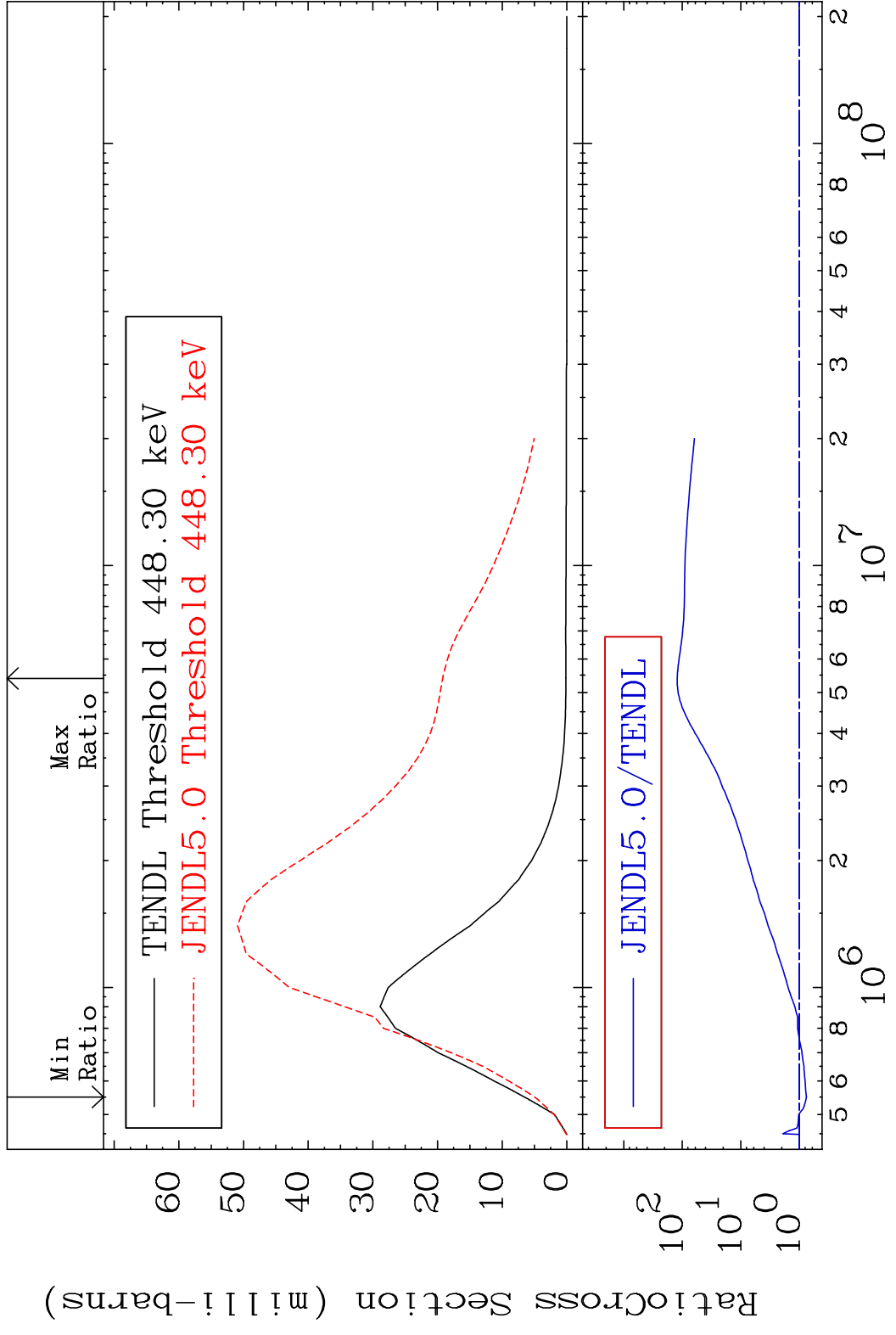
MAT 7040 MT= 55 (n, n') Level 70-Yb-173
 Cross Section 0.000 To 9999. %



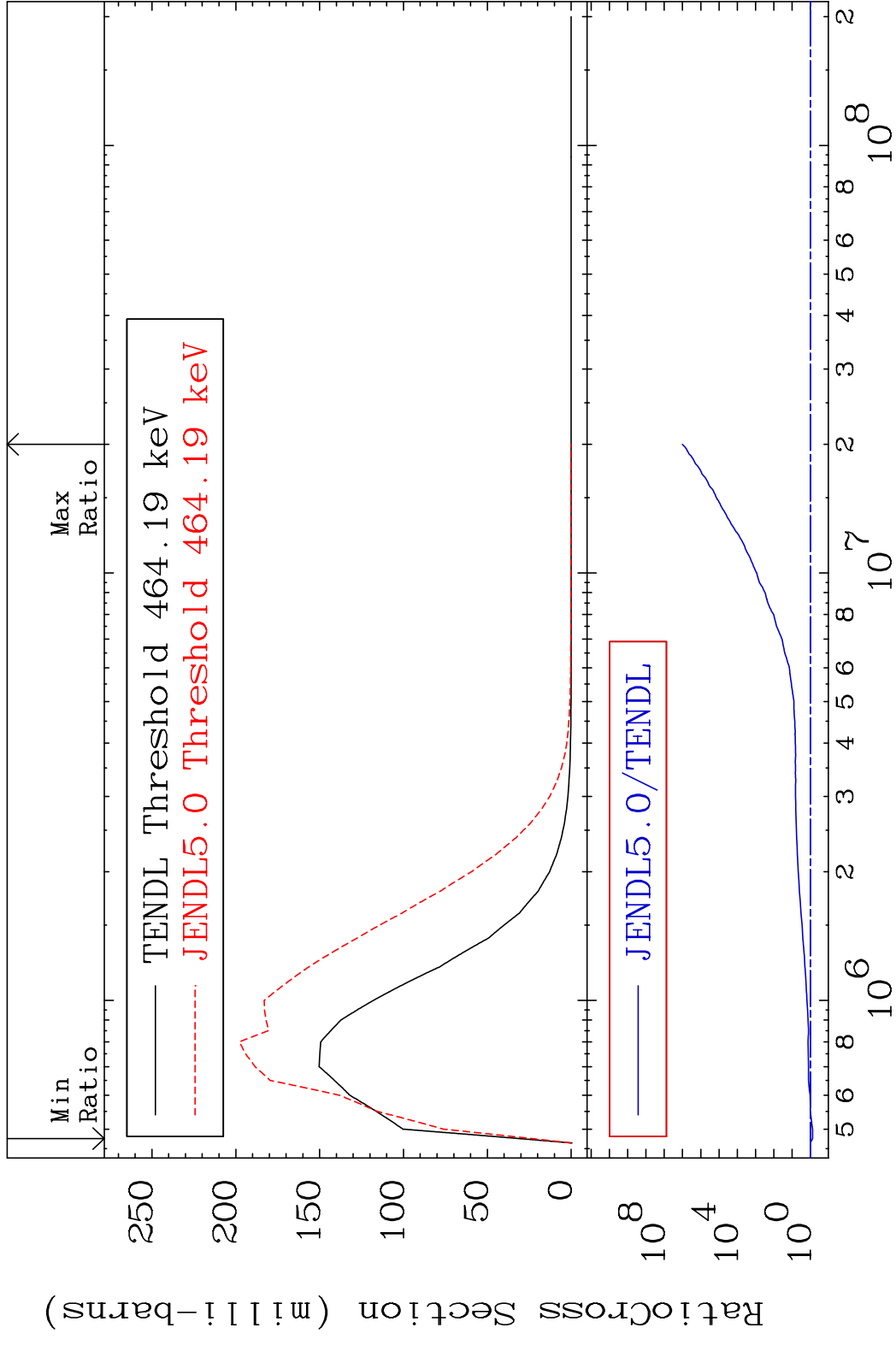
MAT 7040 MT= 56 (n, n') Level 70-Yb-173
 Cross Section -63.08 To 524.0 %



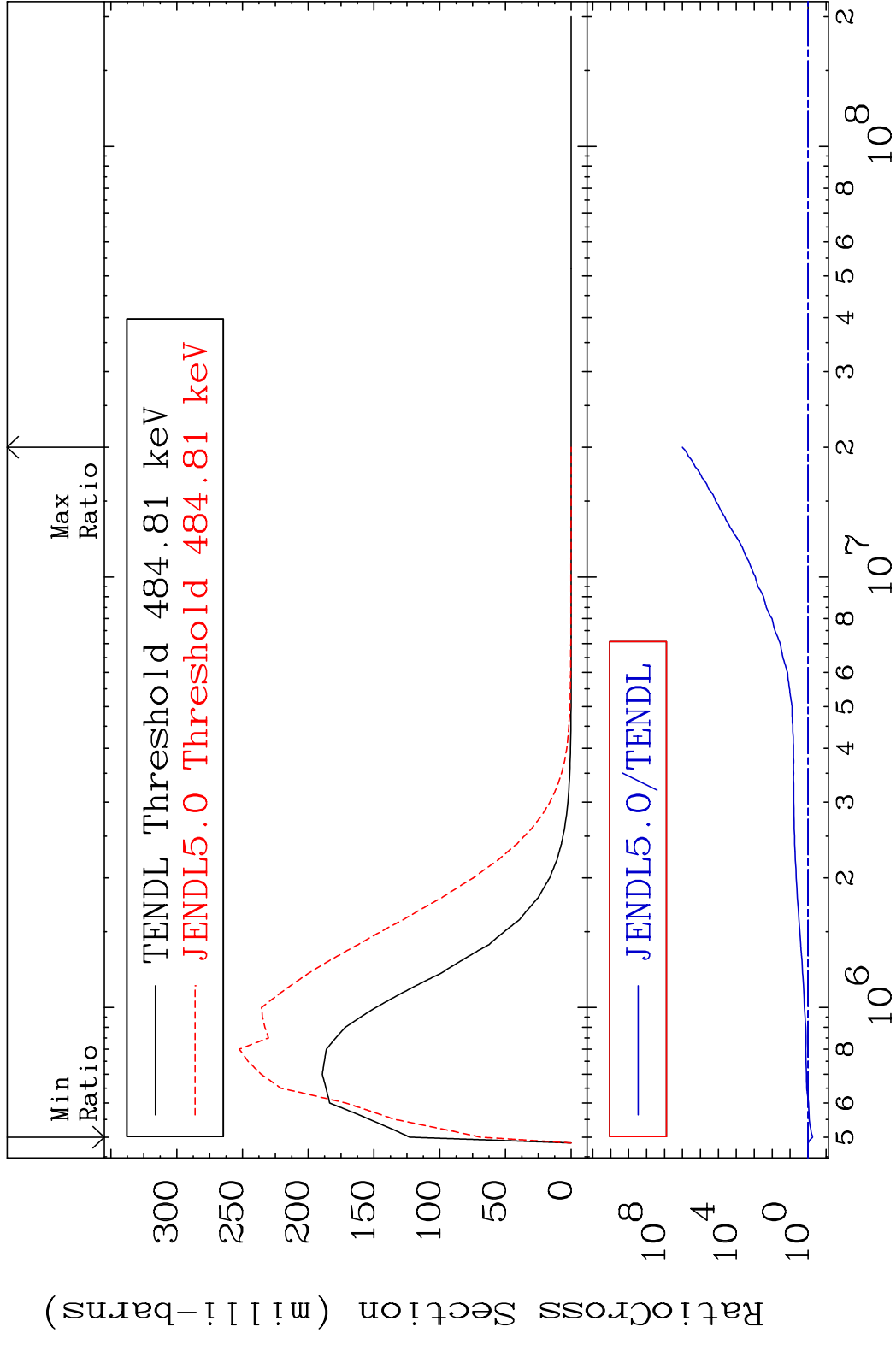
MAT 7040 MT= 57 (n, n') Level 70-Yb-173
 Cross Section -24.34 To 9999. %



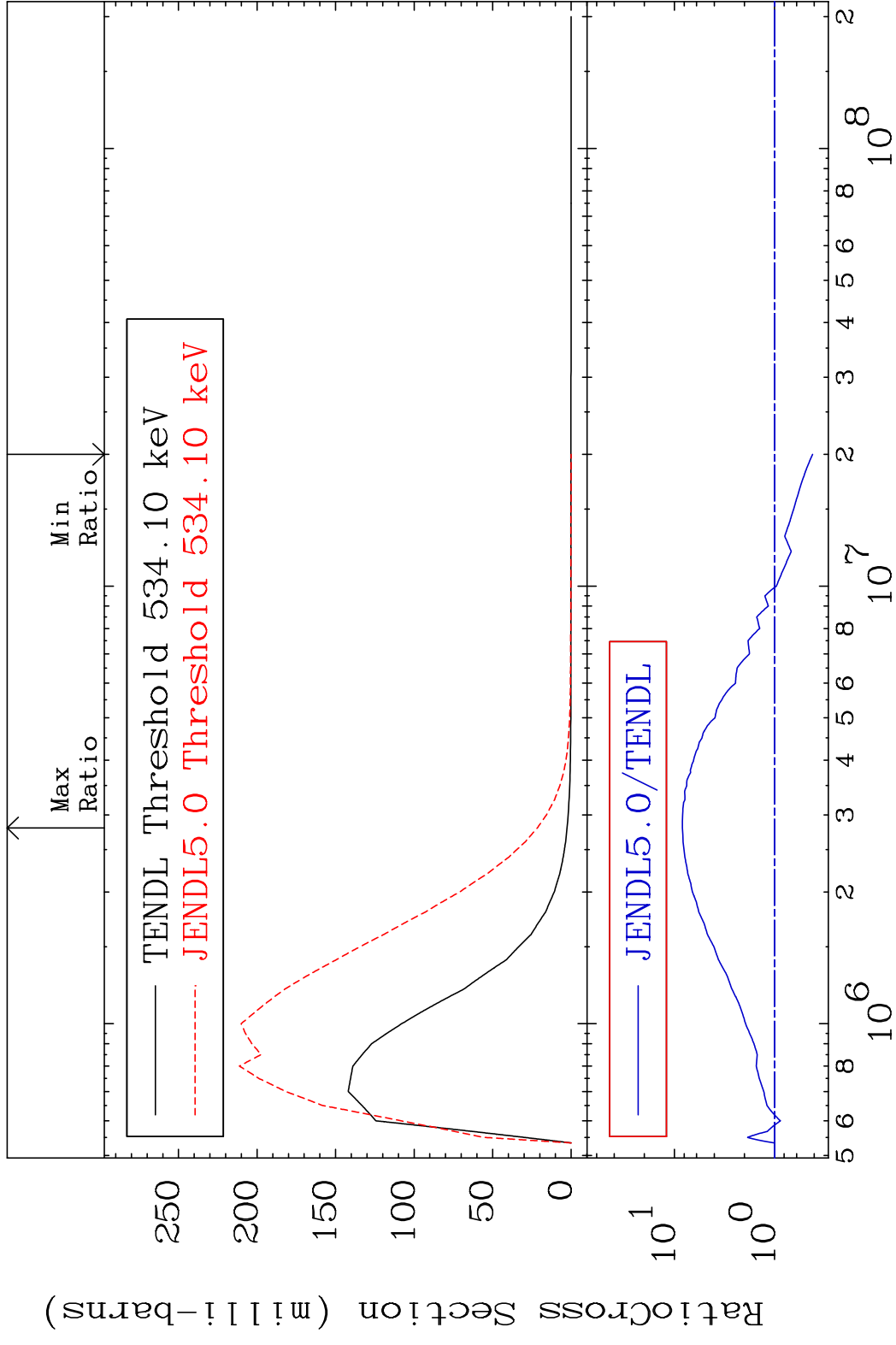
MAT 7040 MT= 58 (n, n') Level 70-Yb-173
 Cross Section -24.19 To 9999. %



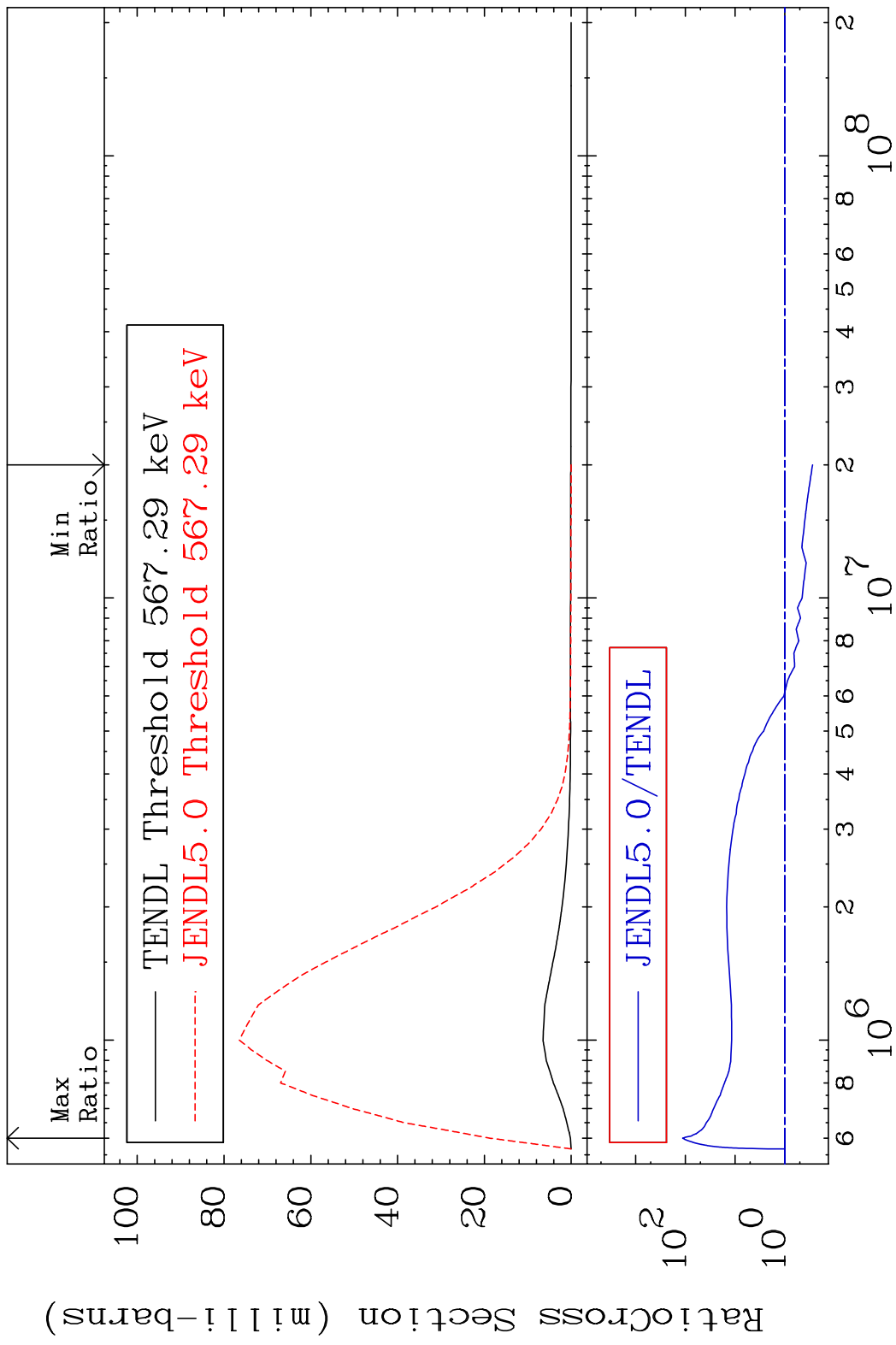
MAT 7040 MT= 59 (n, n') Level 70-Yb-173
 Cross Section -43.91 To 9999. %



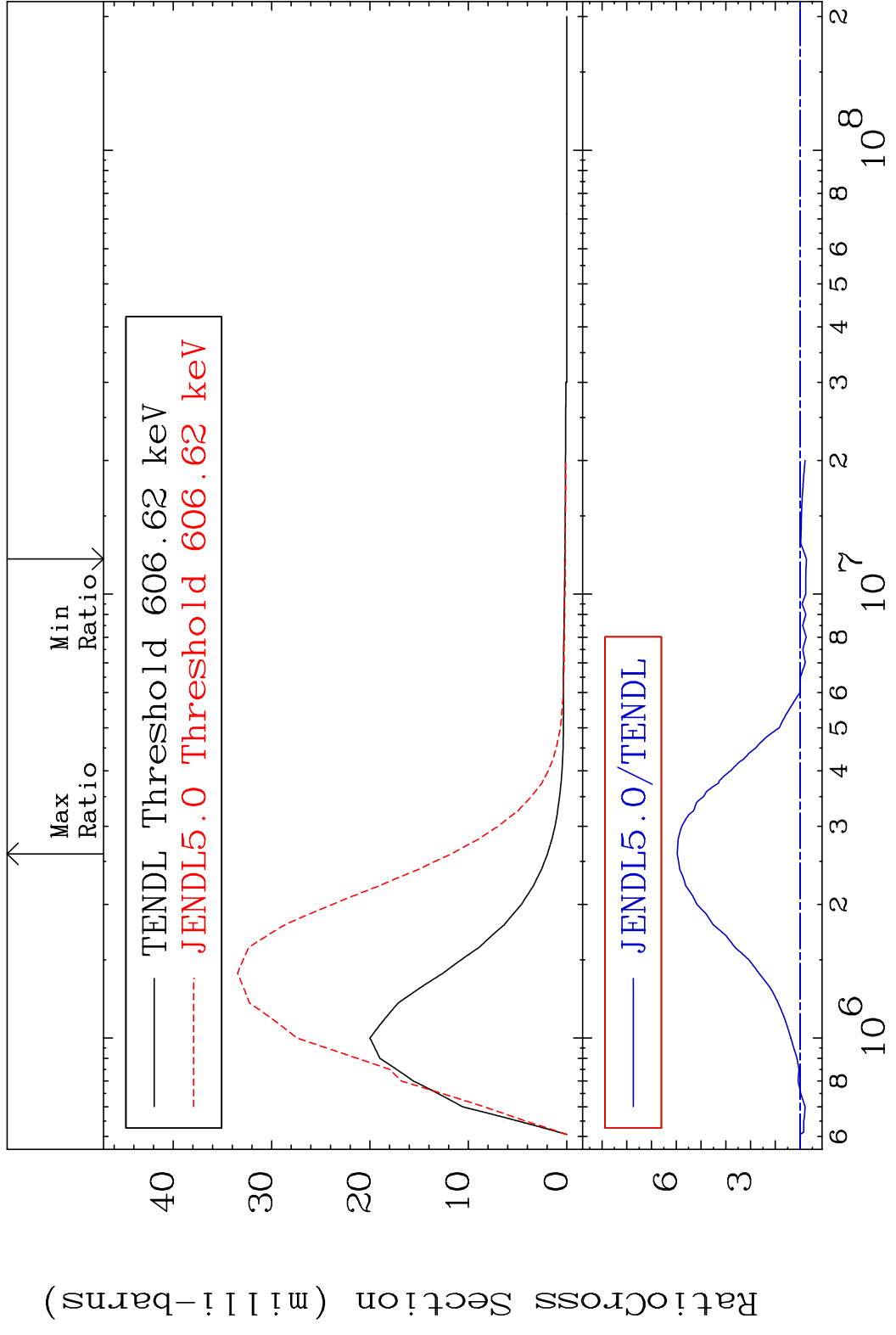
MAT 7040 MT= 60 (n, n') Level 70-Yb-173
 Cross Section -58.40 To 732.9 %



MAT 7040 MT= 61 (n, n') Level 70-Yb-173
 Cross Section -72.33 To 9999. %

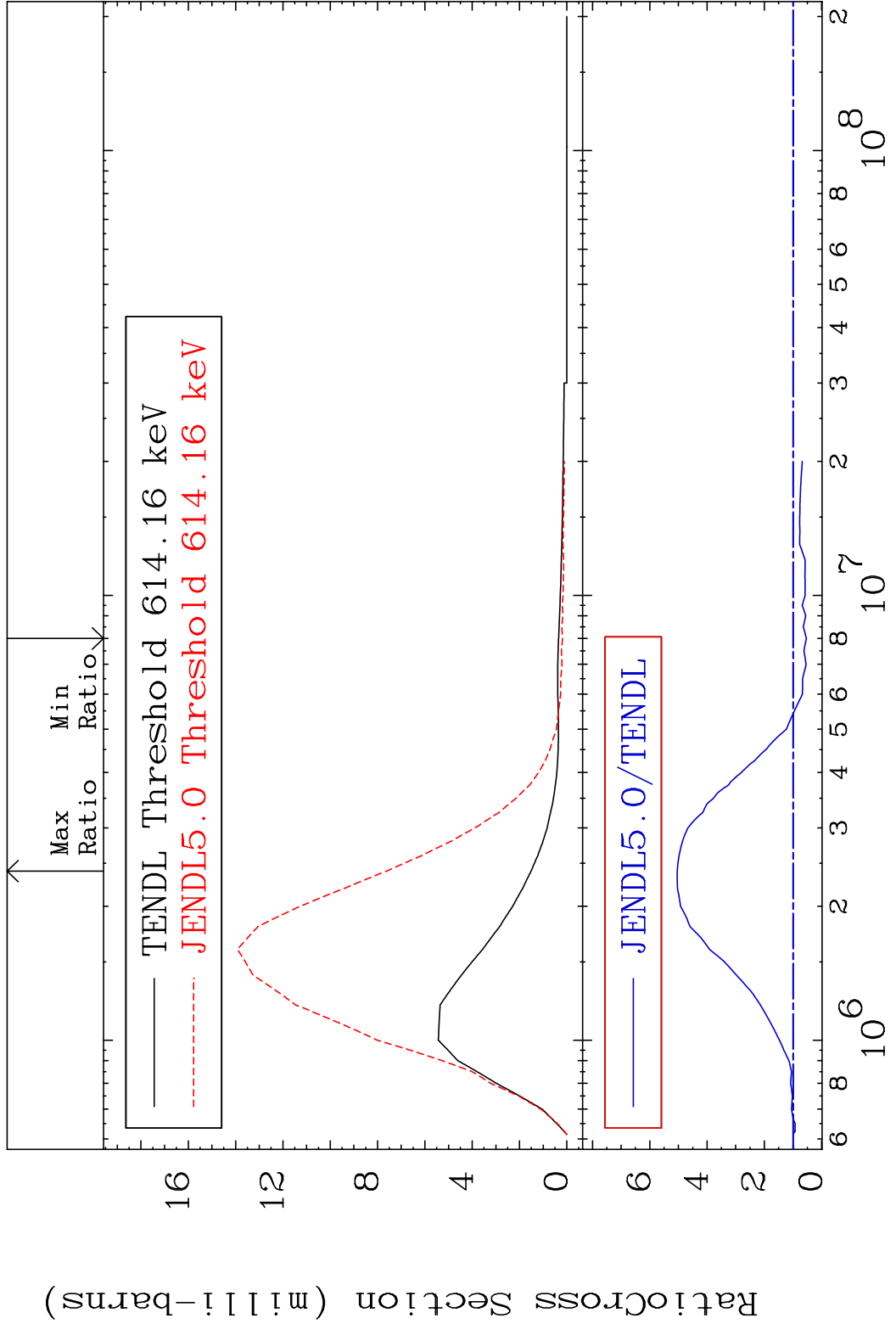


MAT 7040 MT= 62 (n, n') Level 70-Yb-173
 Cross Section -25.82 To 496.3 %

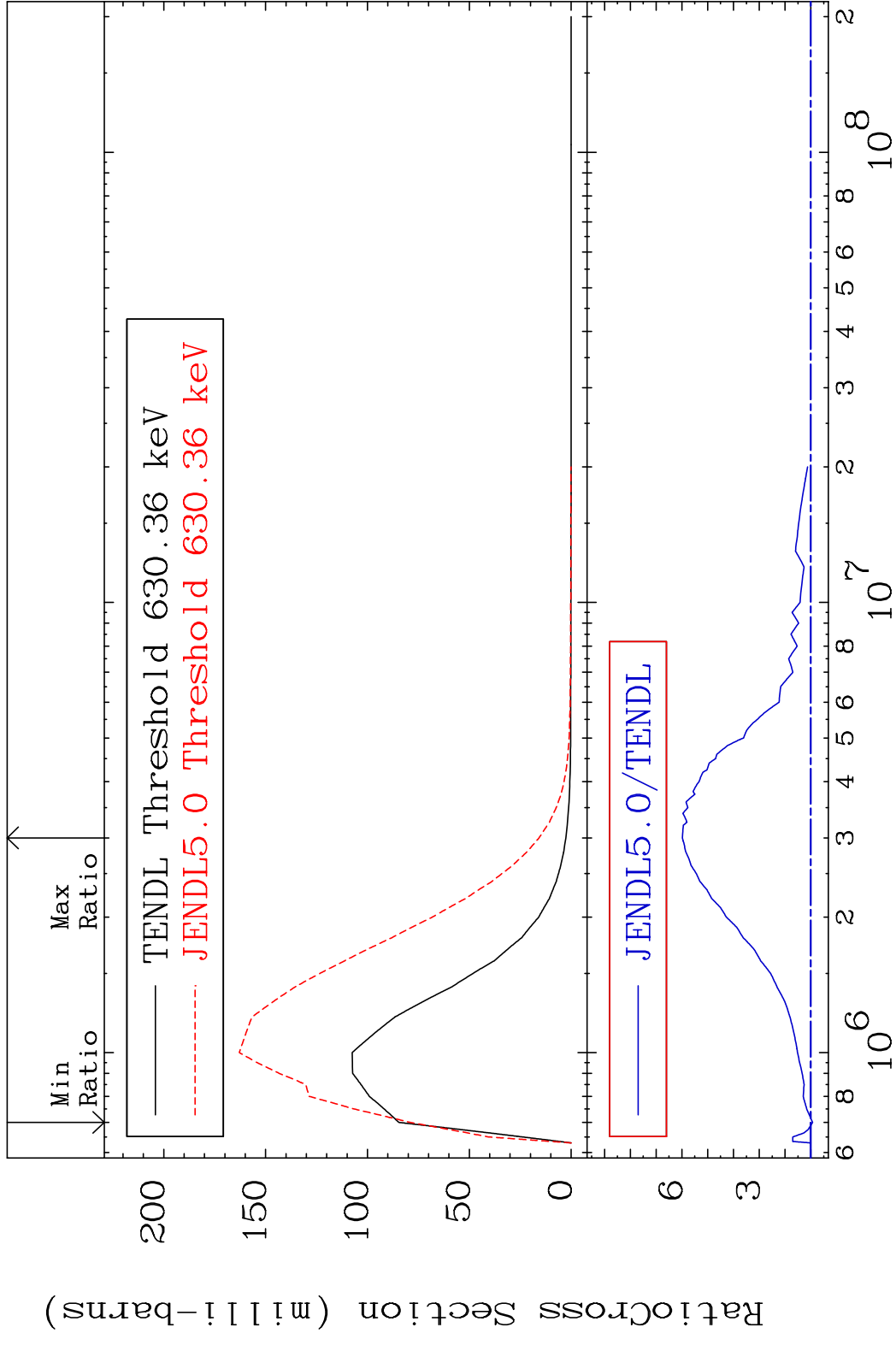


20 70-Yb-173

MAT 7040 MT= 63 (n, n') Level 70-Yb-173
 Cross Section -46.72 To 404.3 %



MAT 7040 MT= 64 (n, n') Level 70-Yb-173
 Cross Section -6.634 To 498.2 %

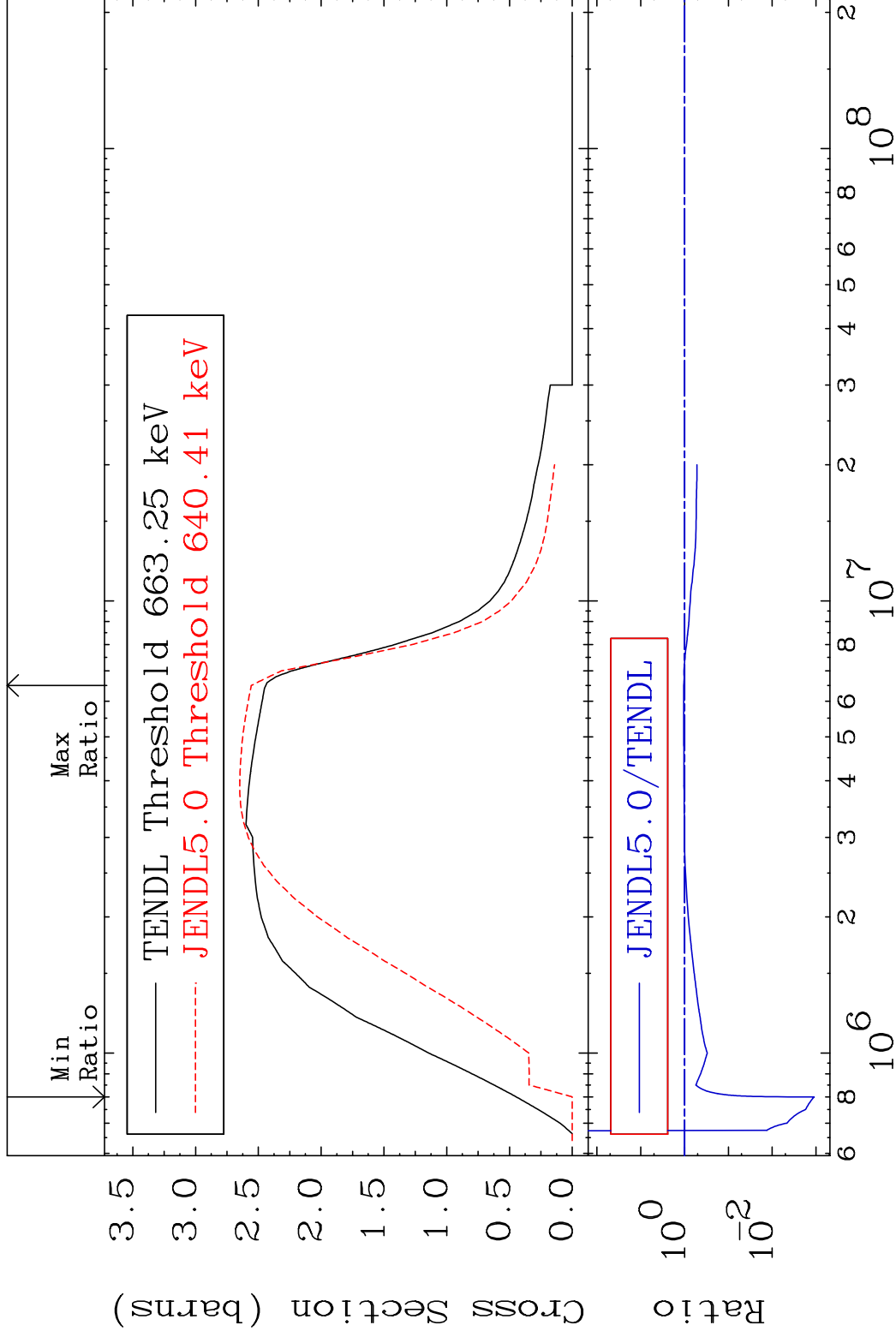


MAT 7040

(n, n') Continuum

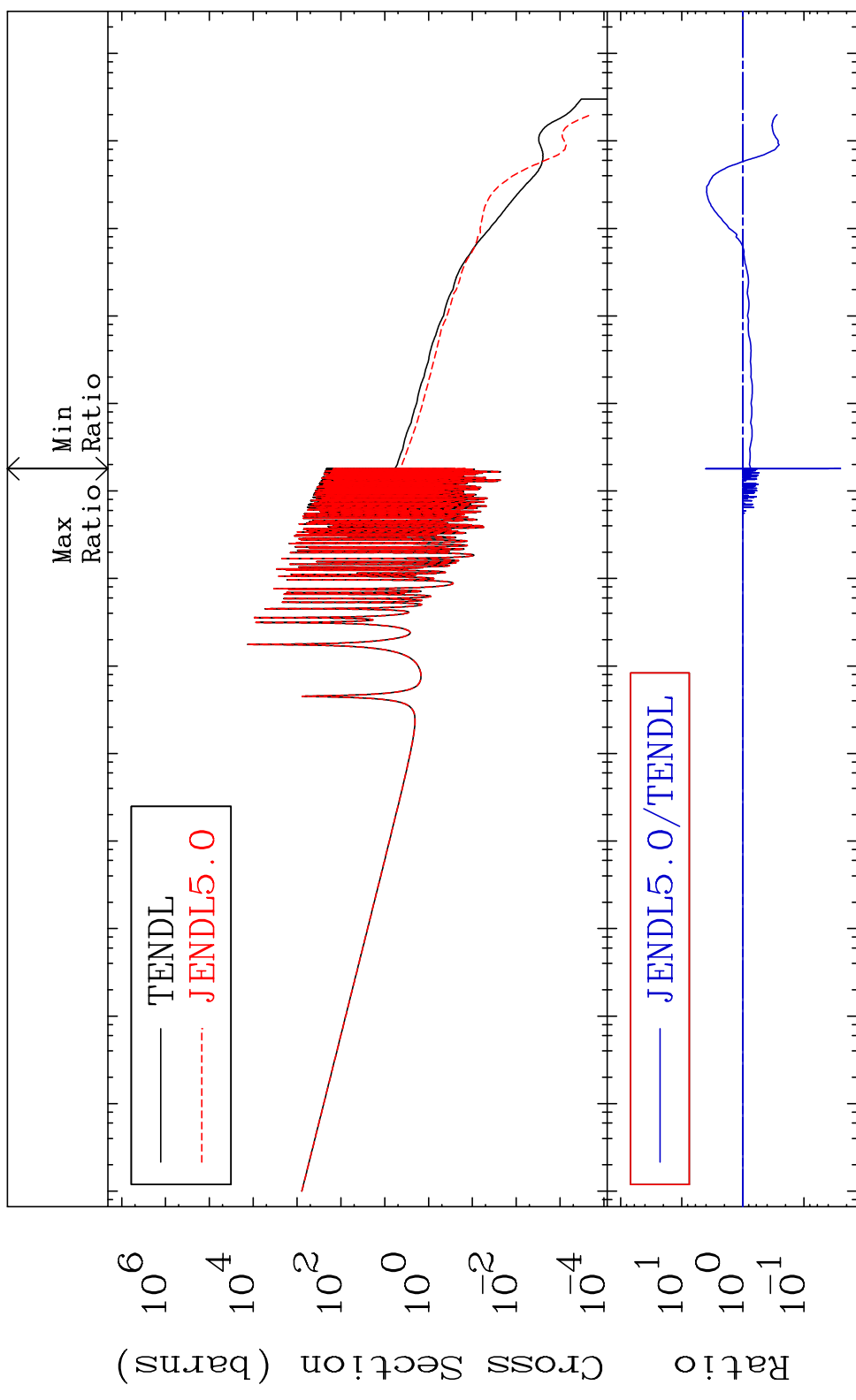
70-Yb-173

Cross Section -99.89 To 4.767 %

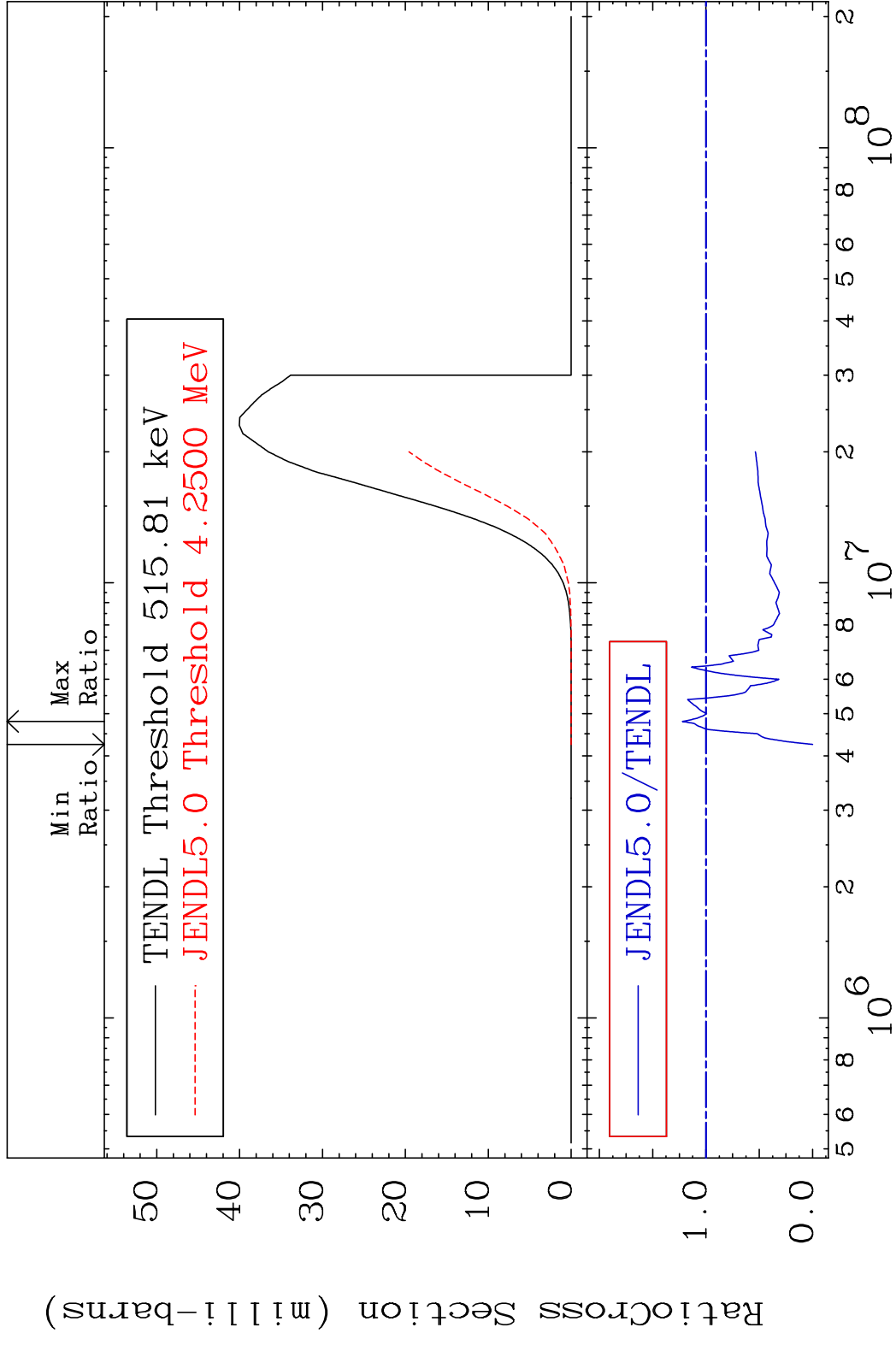


MAT 7040

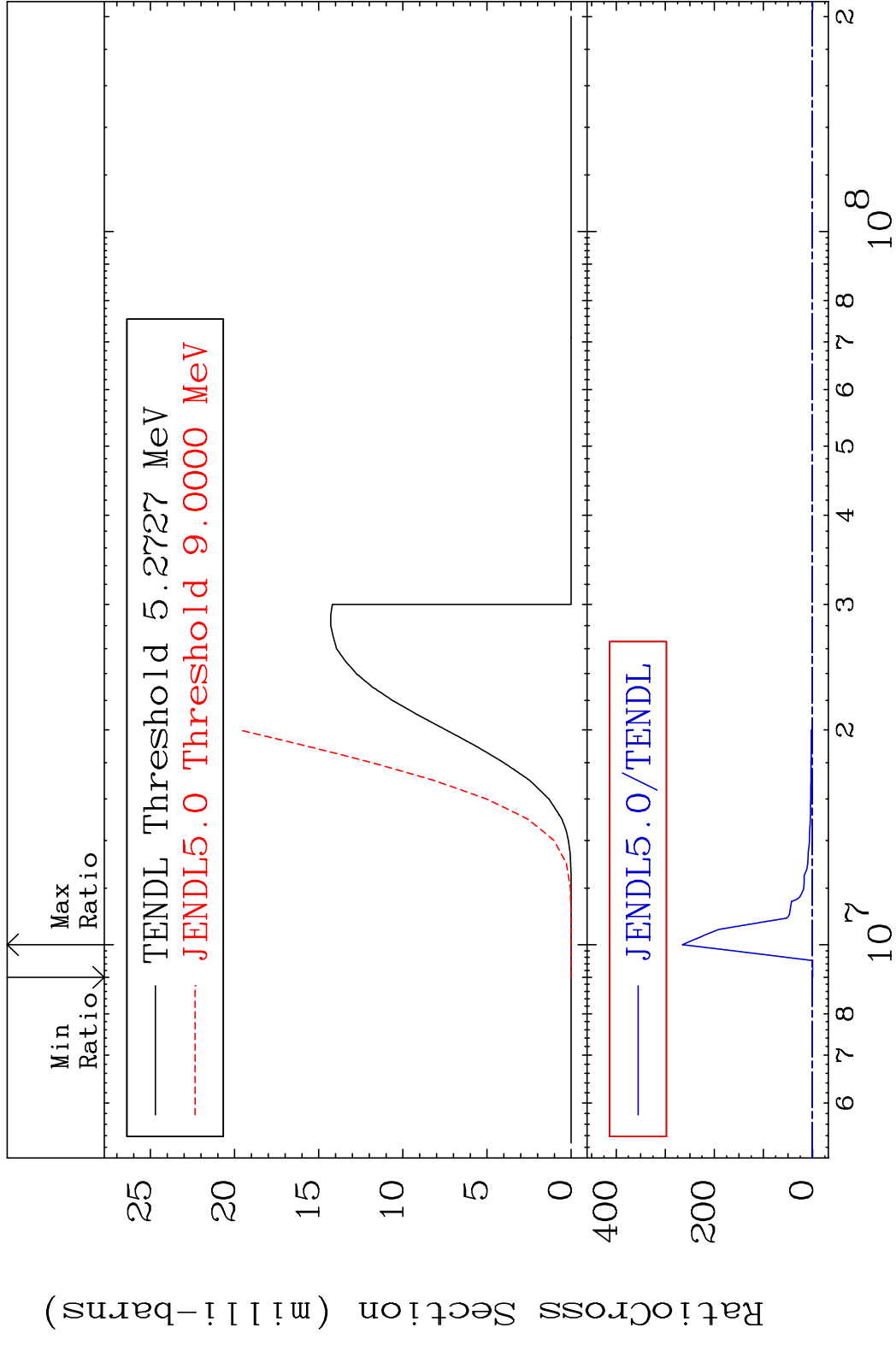
(n, γ)
Cross Section -97.48 To 304.6 %
70-Yb-173



MAT 7040 (n,p) 70-Yb-173
 Cross Section -100.0 To 22.17 %



MAT 7040 (n,d) 70-Yb-173
 Cross Section -100.0 To 9999. %

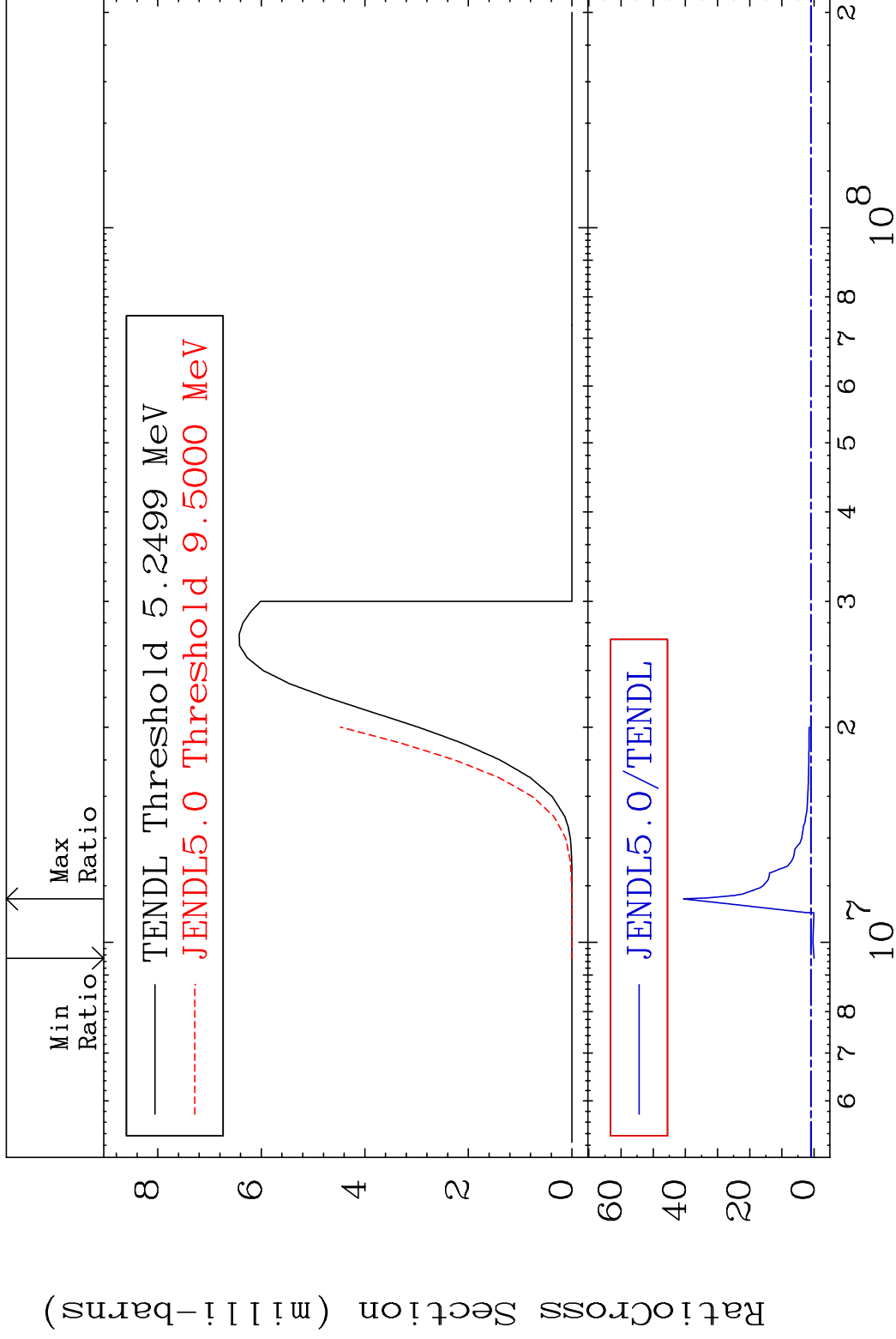


MAT 7040

(n, t)

70-Yb-173

Cross Section -100.0 To 3960. %



27

Incident Energy (eV)

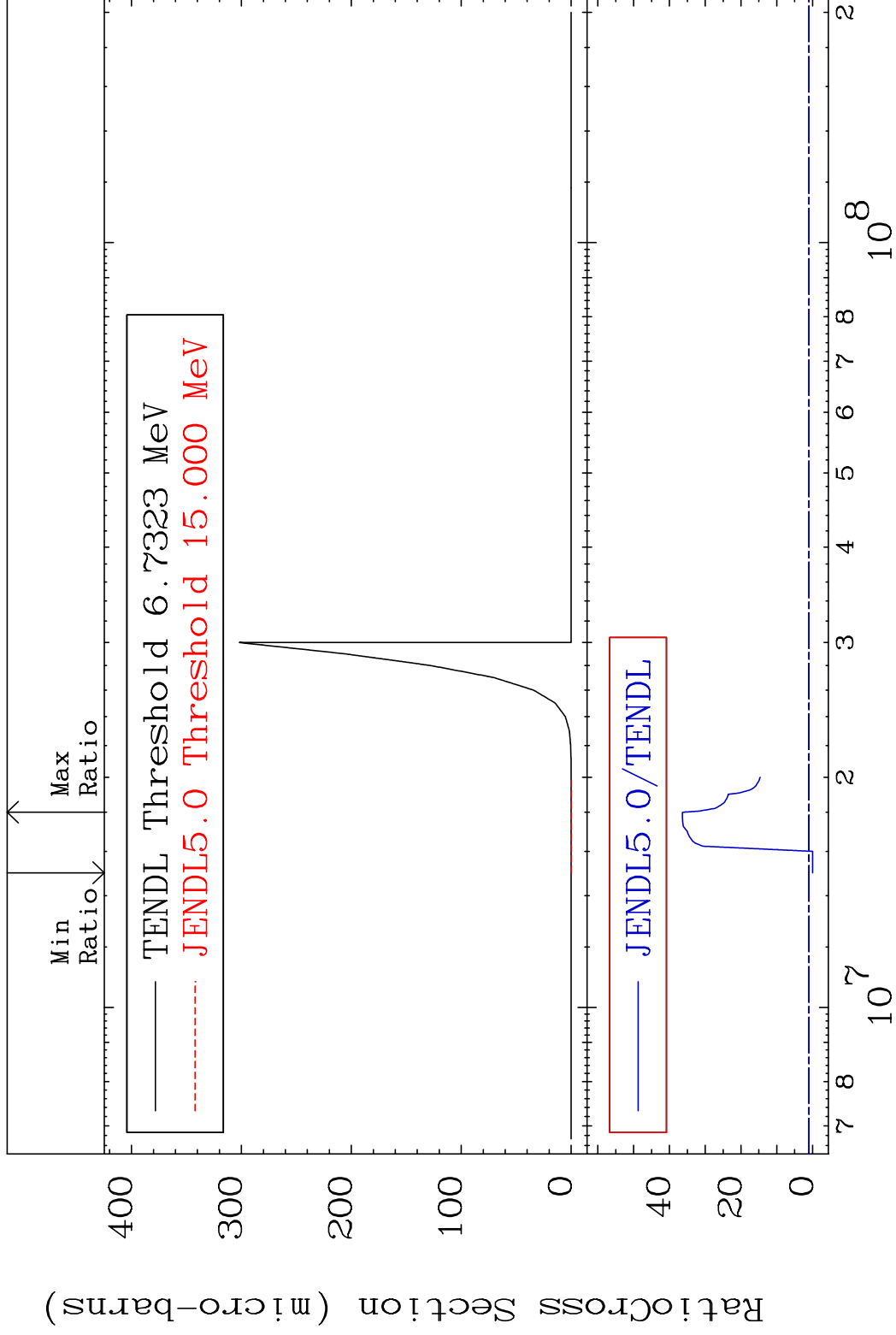
70-Yb-173

MAT 7040

(n, He-3)

70-Yb-173

Cross Section -100.0 To 3539. %



28

Incident Energy (eV)

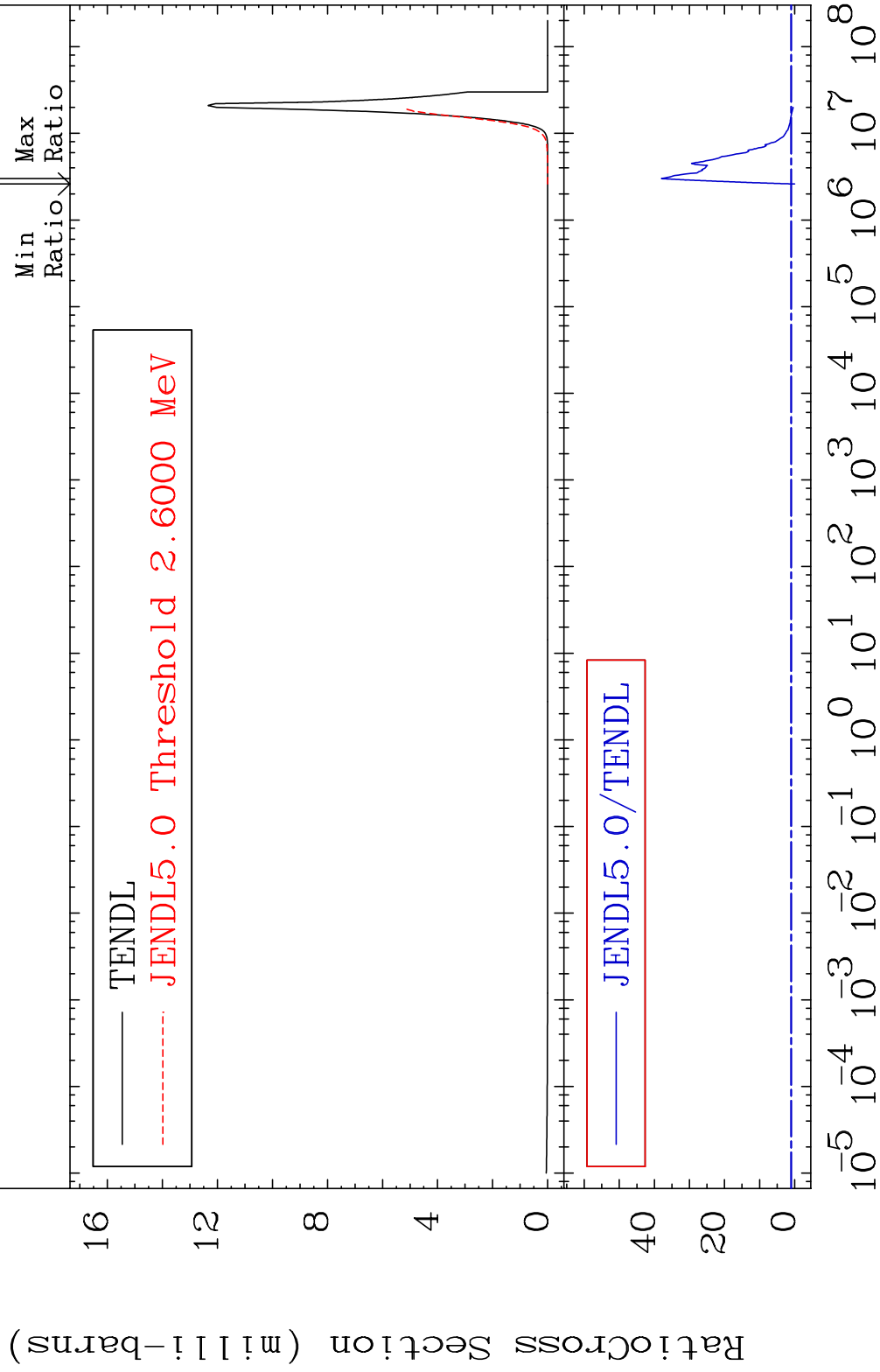
70-Yb-173

MAT 7040

(n, α)

70-Yb-173

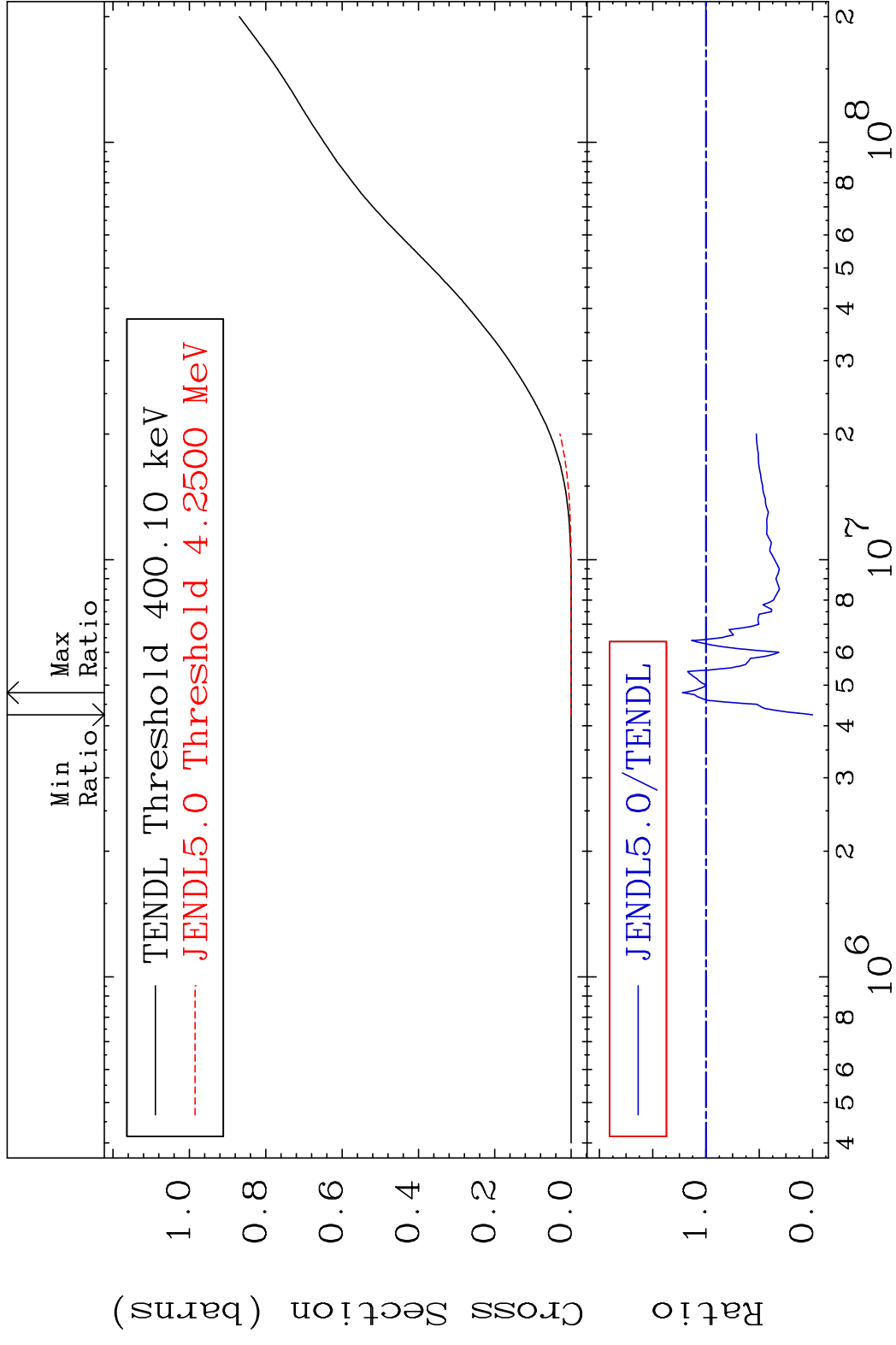
Cross Section -100.0 To 3700. %



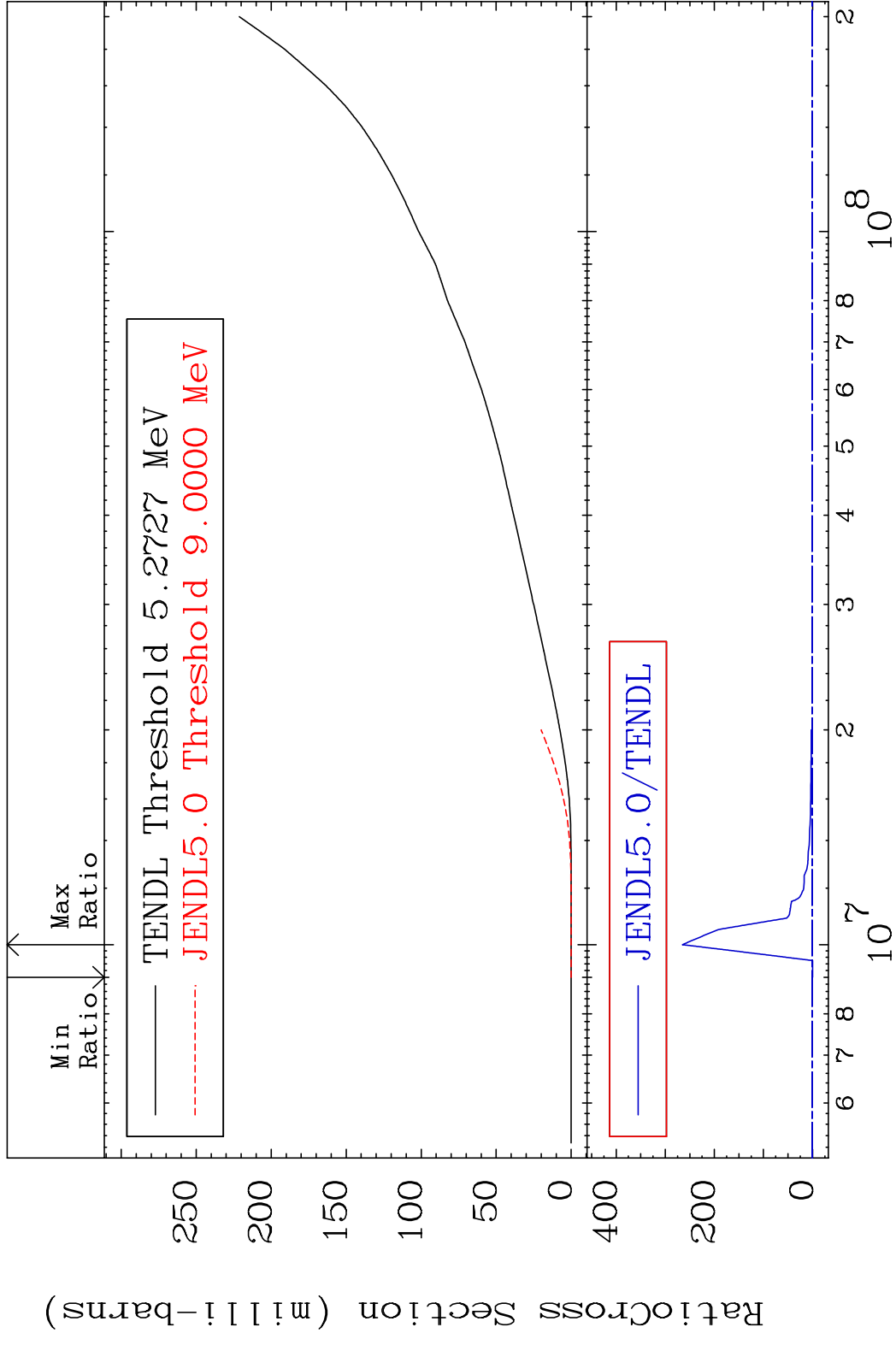
29

Incident Energy (eV)

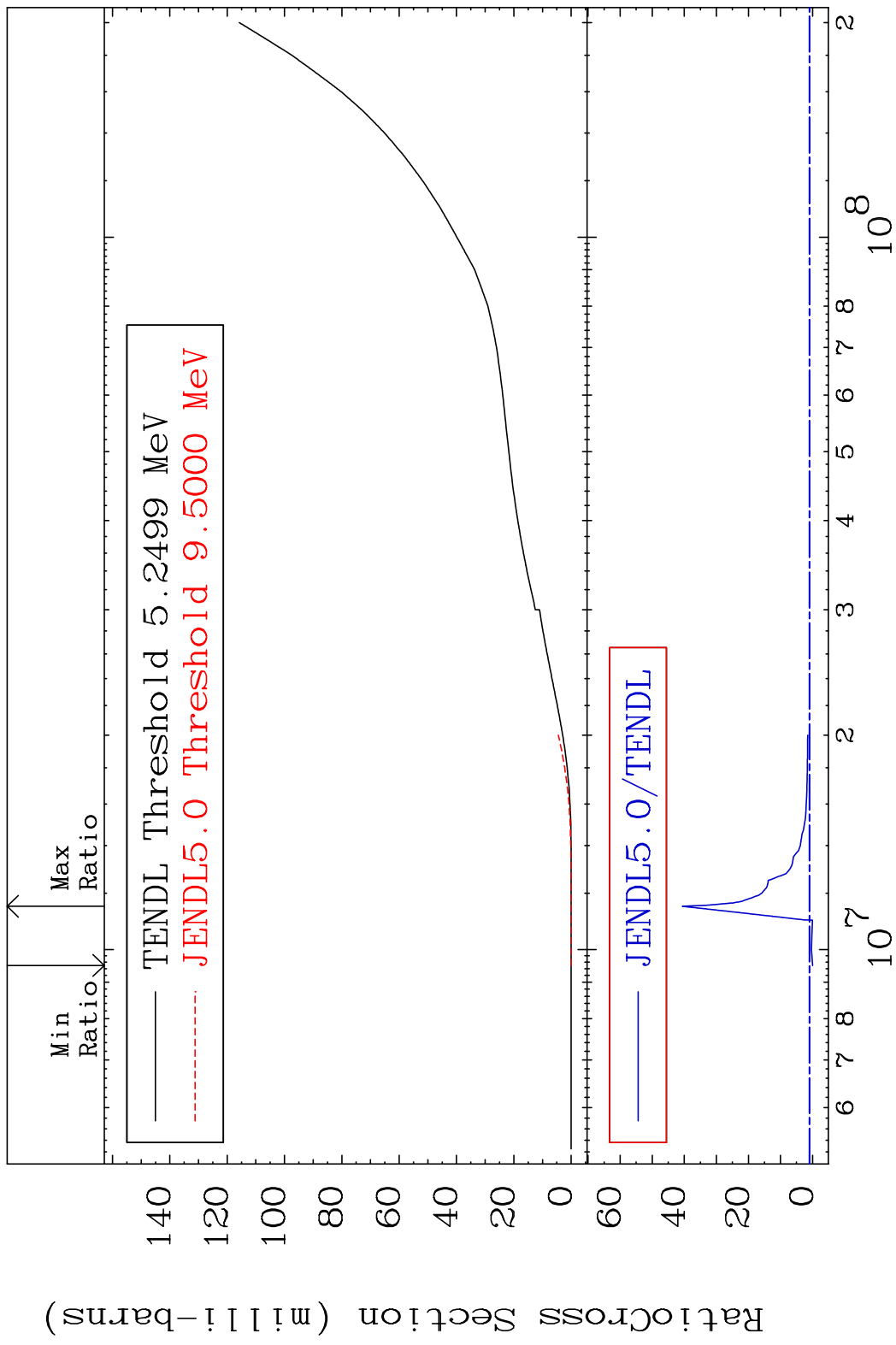
70-Yb-173



MAT 7040 Deuterium Production 70-Yb-173
 Cross Section -100.0 To 9999. %



MAT 7040 Tritium Production 70-Yb-173
 Cross Section -100.0 To 3960. %

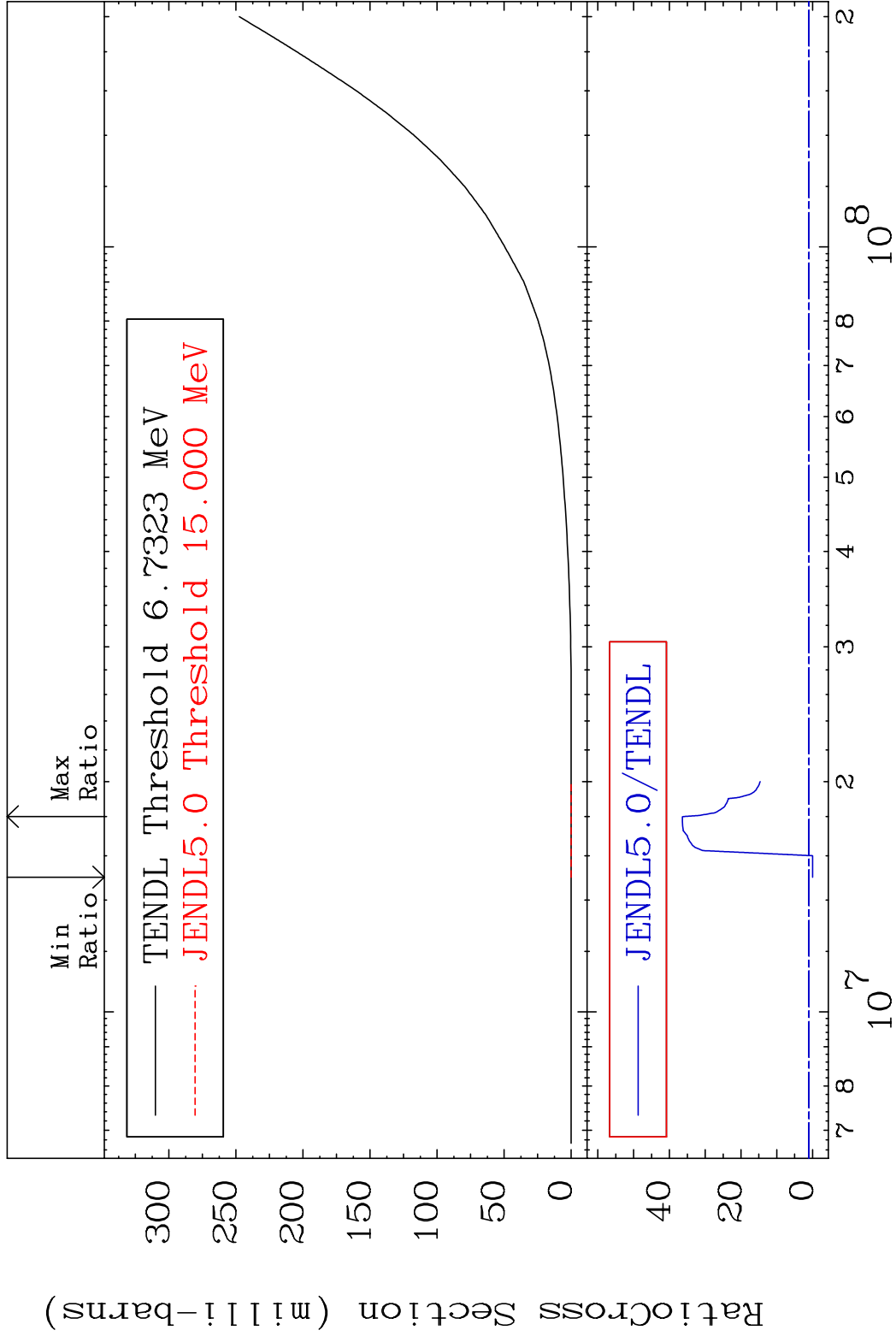


MAT 7040

He-3 Production

70-Yb-173

Cross Section -100.0 To 3539. %



33

Incident Energy (eV)

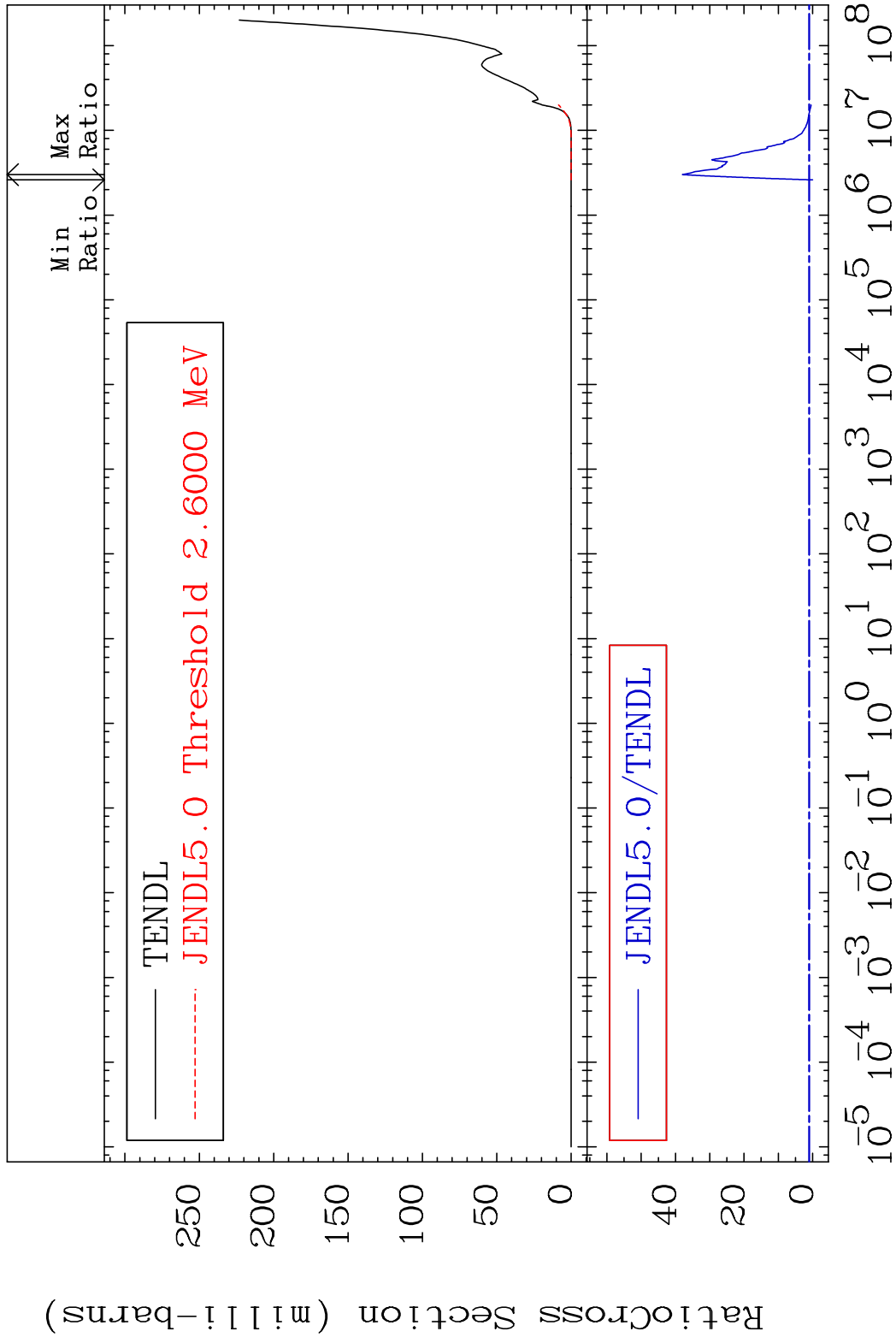
70-Yb-173

MAT 7040

He-4 Production

70-Yb-173

Cross Section -100.0 To 3700. %

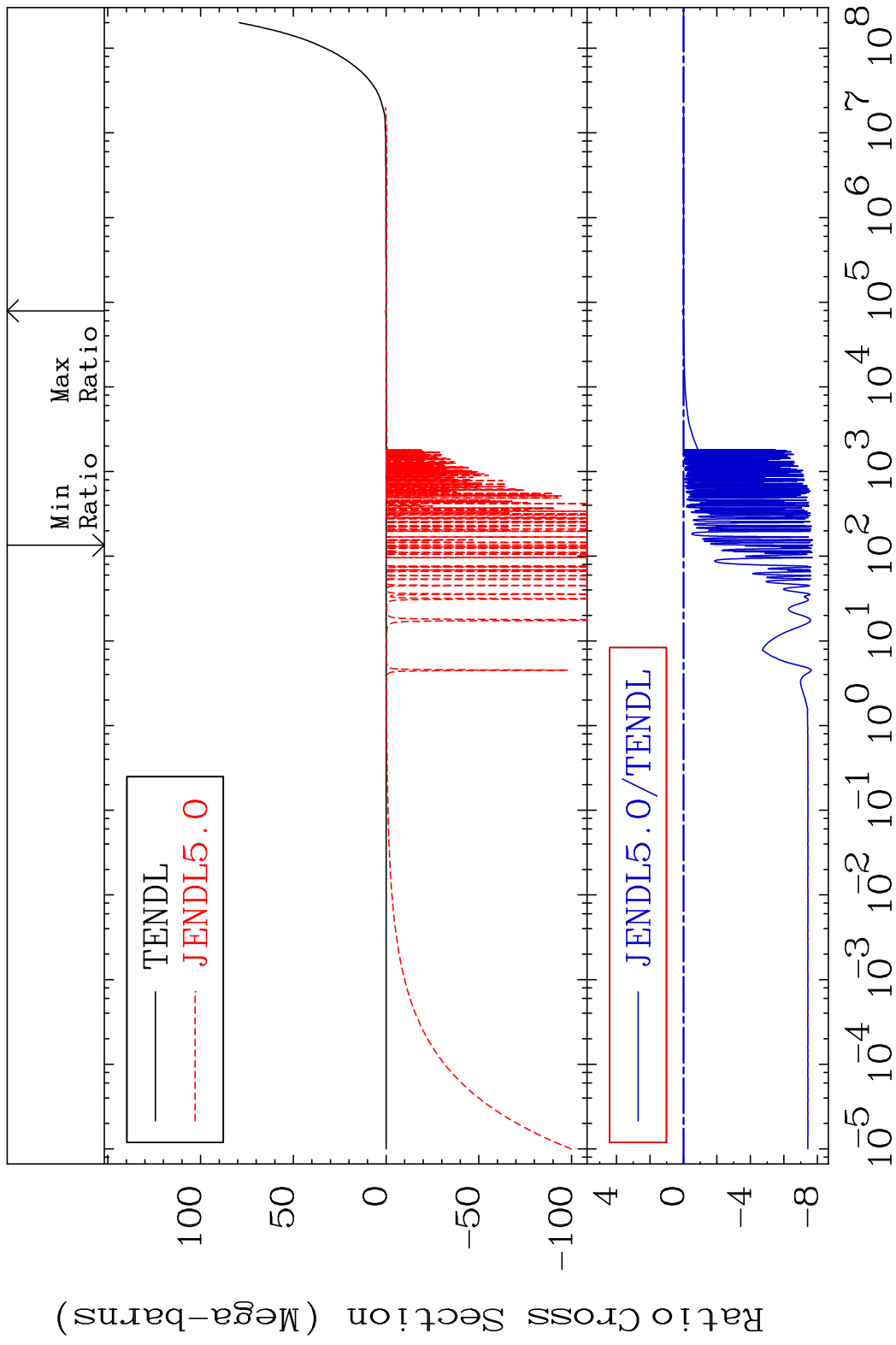


34

Incident Energy (eV)

70-Yb-173

MAT 7040 Kerma total (eV-barns) 70-Yb-173
Cross Section -9999. To 6357. %



35 Incident Energy (eV) 70-Yb-173

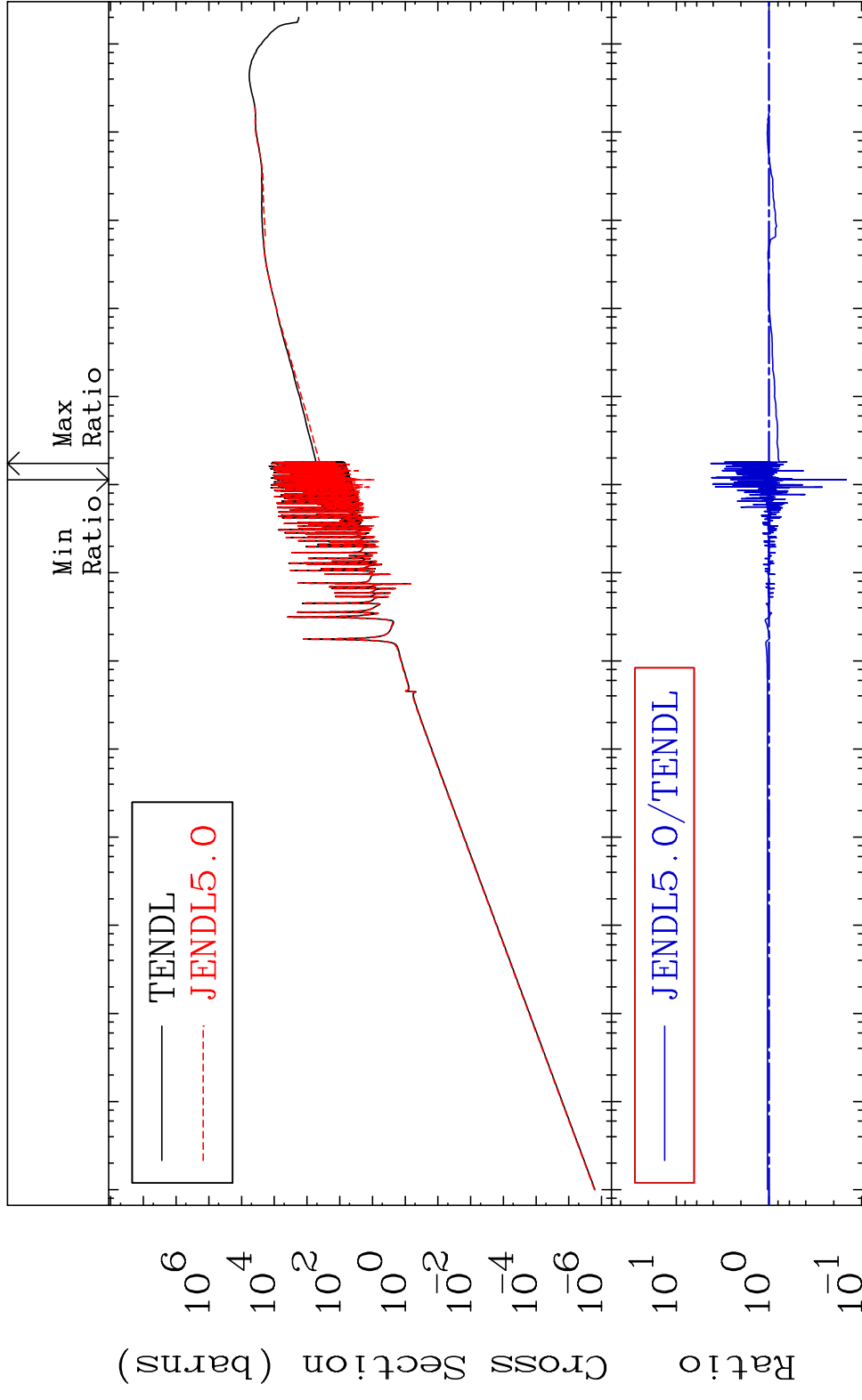
MAT 7040

Kerma elastic

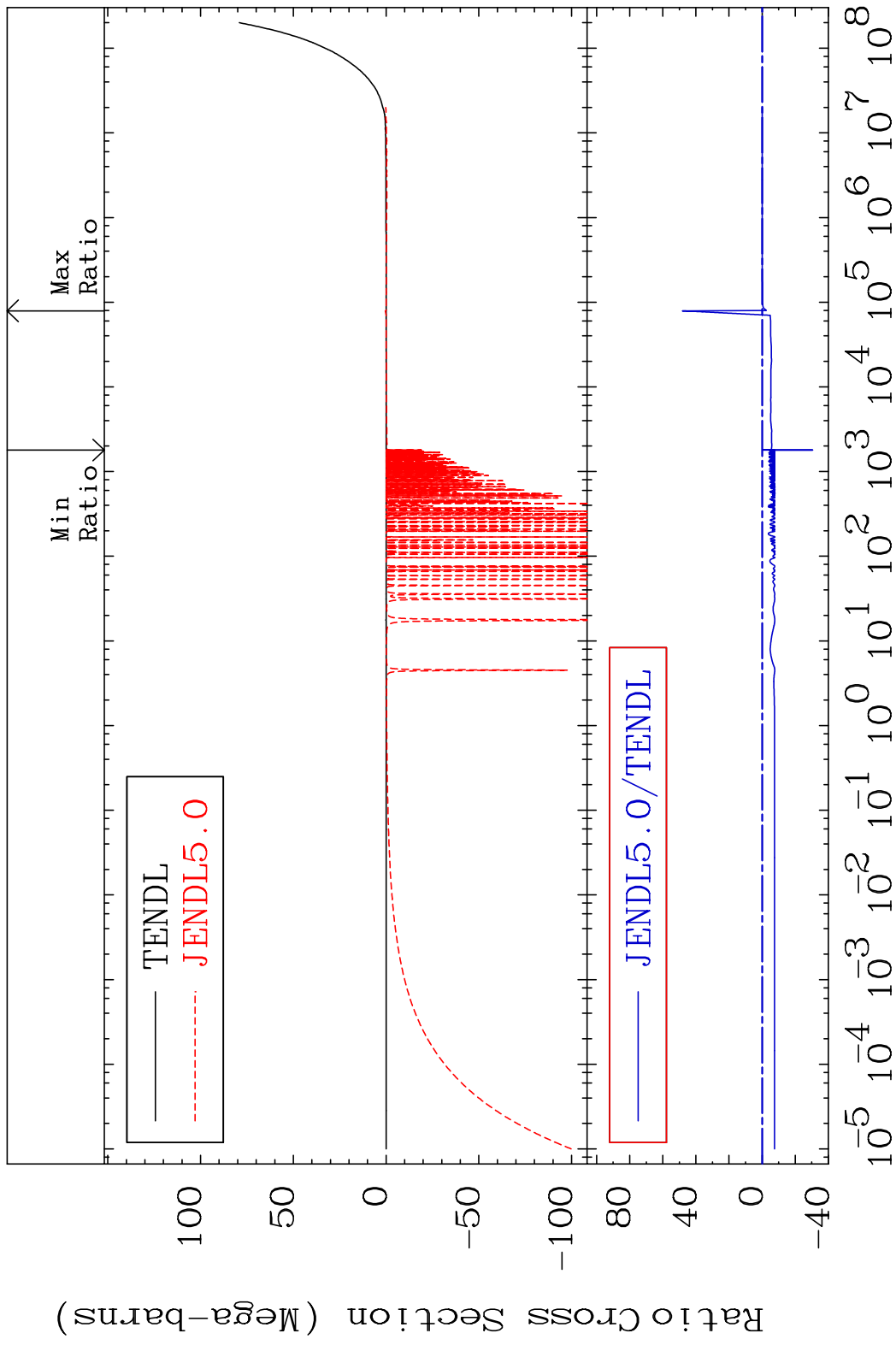
70-Yb-173

Cross Section

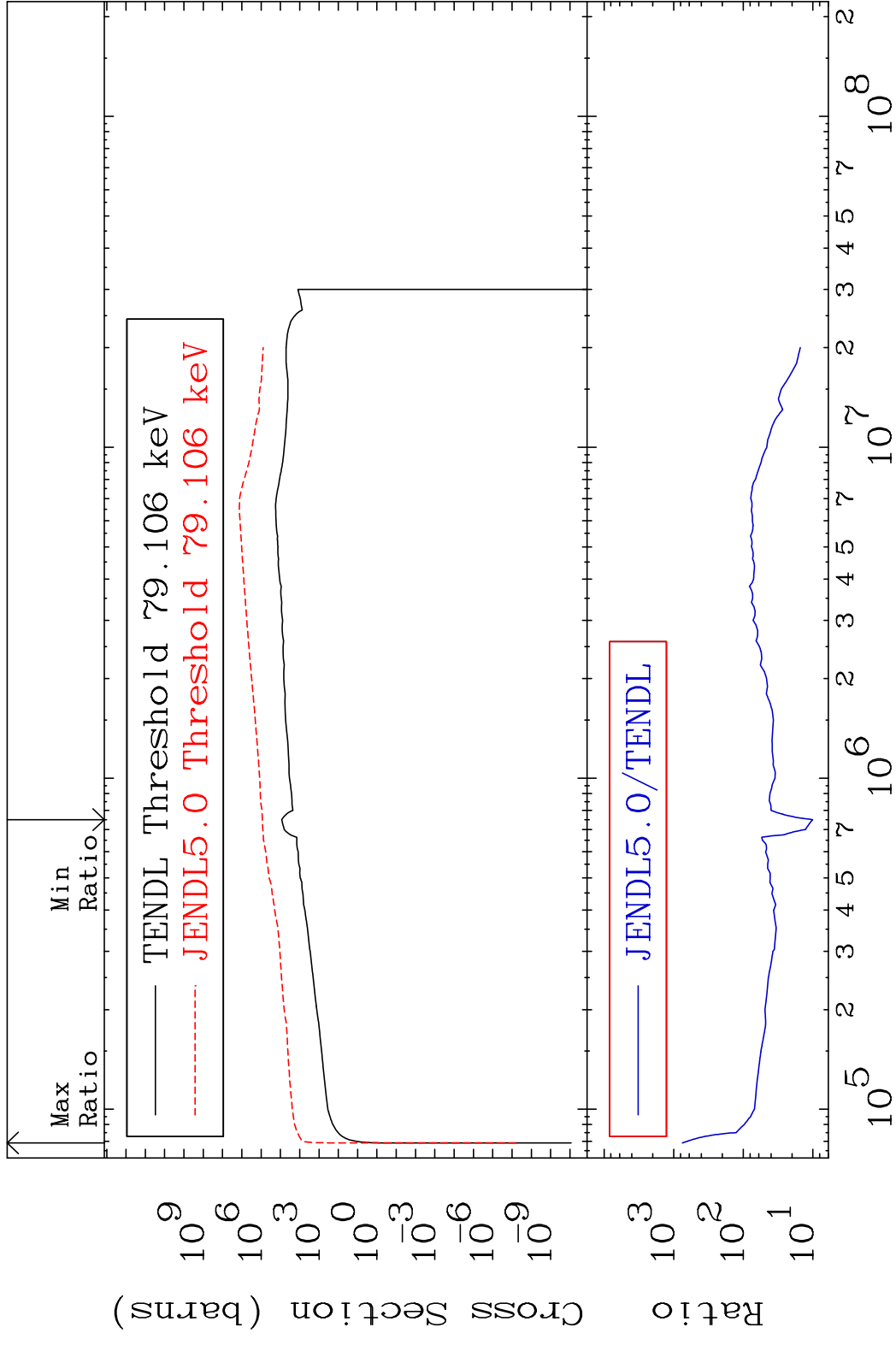
-85.38 To 324.4 %



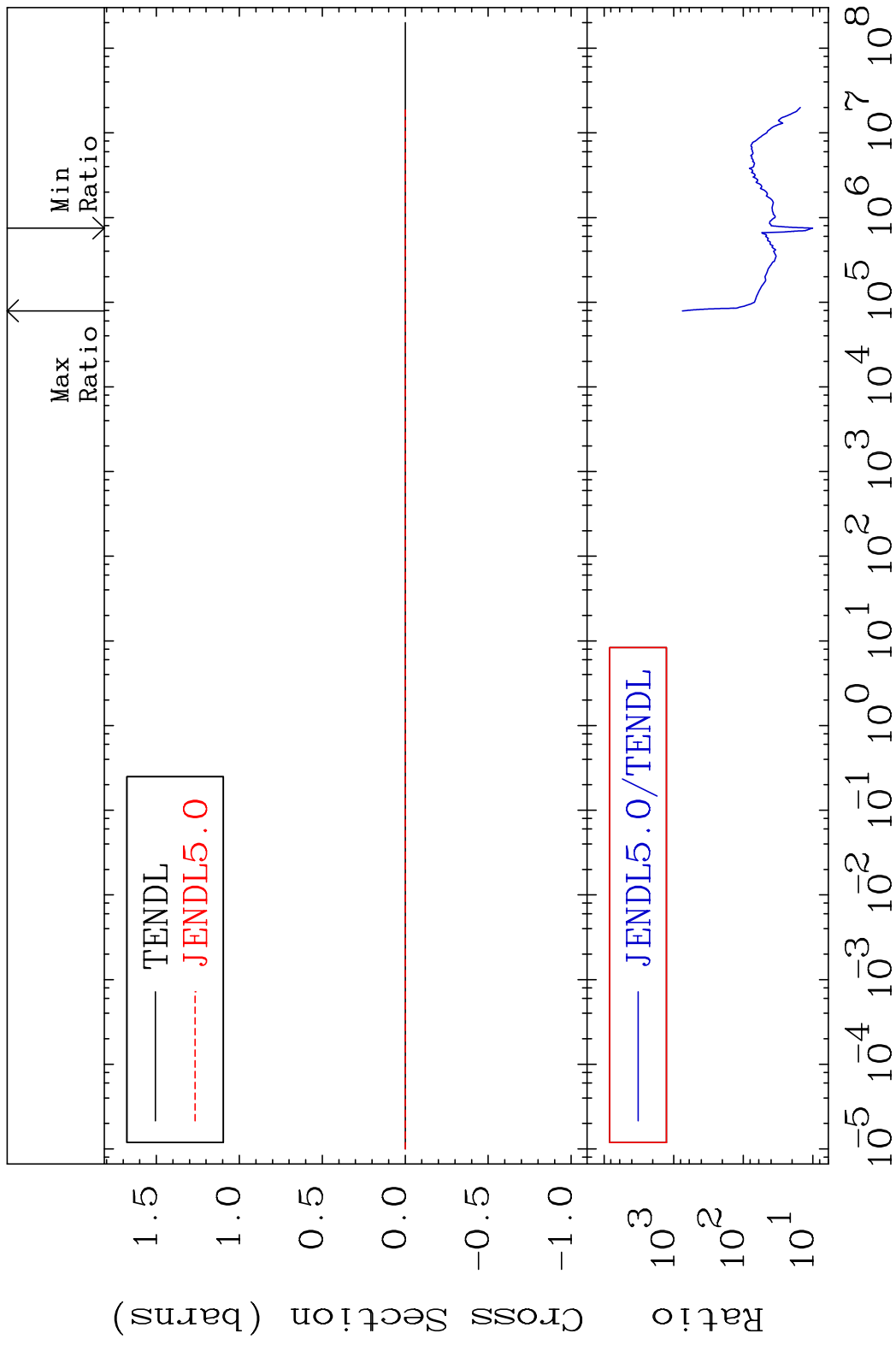
MAT 7040 Kerma non-elastic (all but mt2) 70-Yb-173
 Cross Section -9999. To 9999. %



MAT 7040 Kerma inelastic (mt51-91) 70-Yb-173
 Cross Section 913.0 To 9999. %

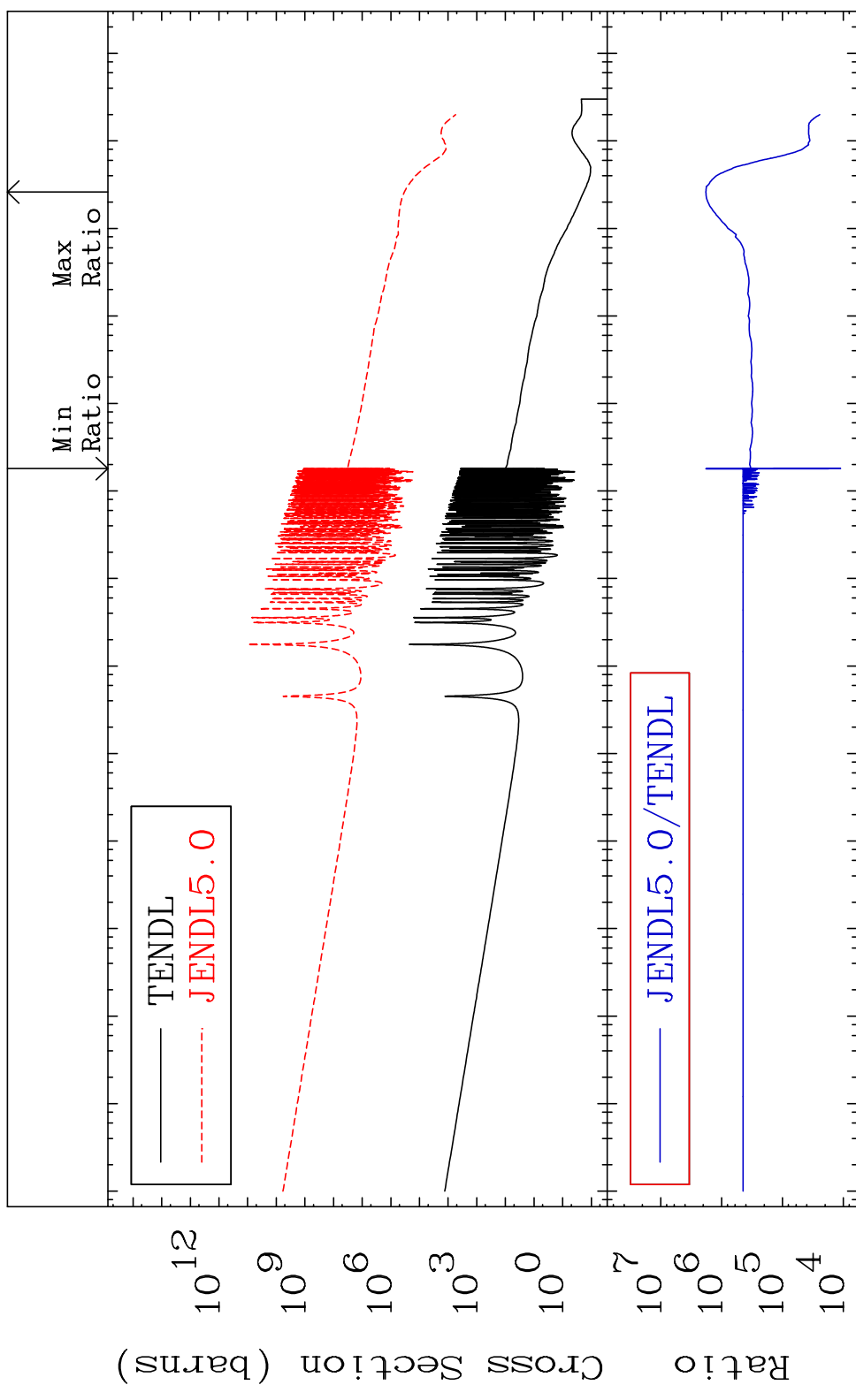


MAT 7040 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-173
 Cross Section 913.0 To 9999. %



MAT 7040

Kerma capture (mt102) 70-Yb-173
Cross Section 9999. To 9999. %



40

Incident Energy (eV)

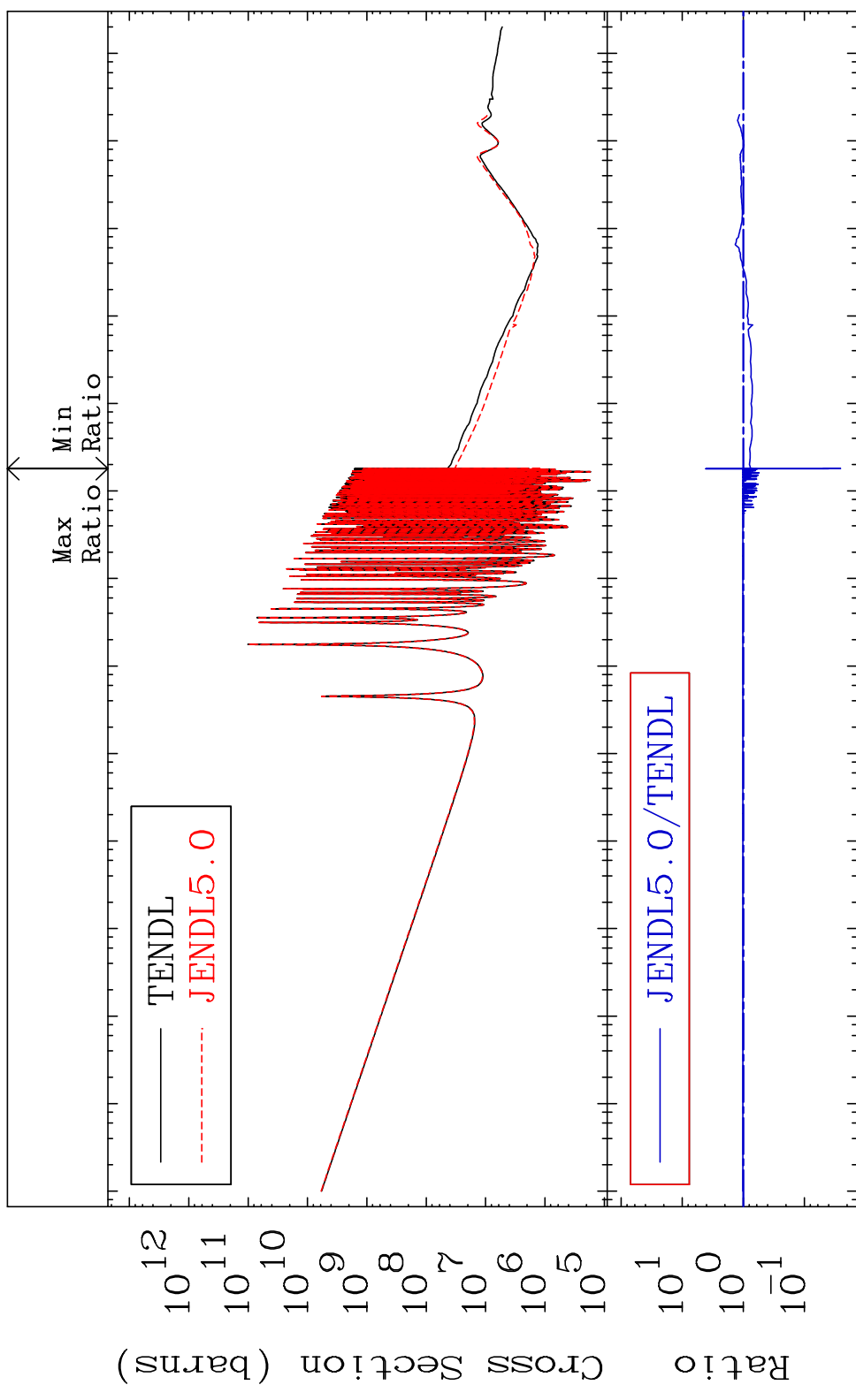
70-Yb-173

MAT 7040

Total photon (eV-barns)

70-Yb-173

Cross Section -97.44 To 311.5 %



Max Ratio

Min Ratio

TENDL
JENDL5.0

JENDL5.0/TENDL

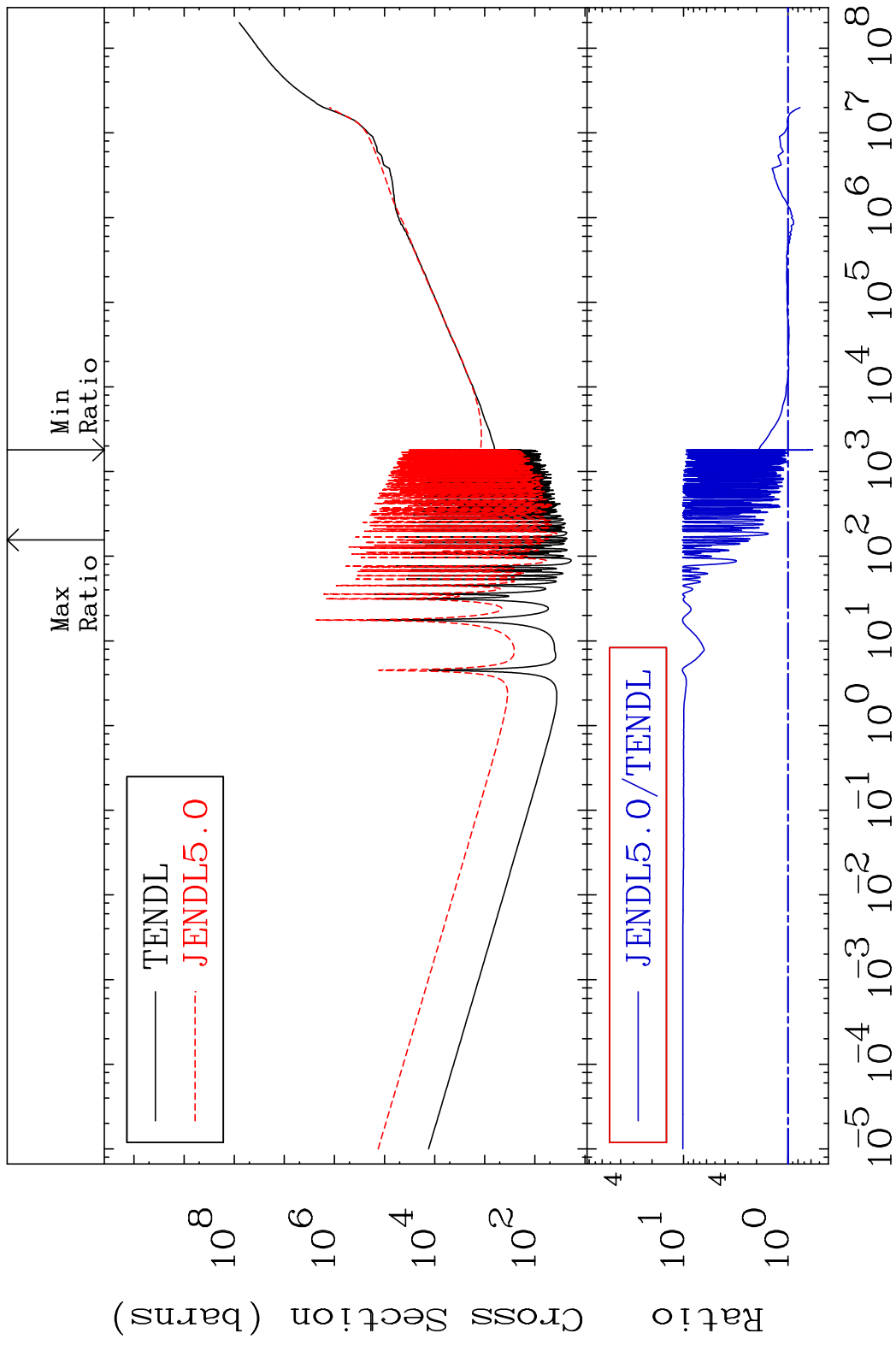
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

41

Incident Energy (eV)

70-Yb-173

MAT 7040 Total kinematic kerma (high limit) 70-Yb-173
 Cross Section -41.91 To 924.9 %

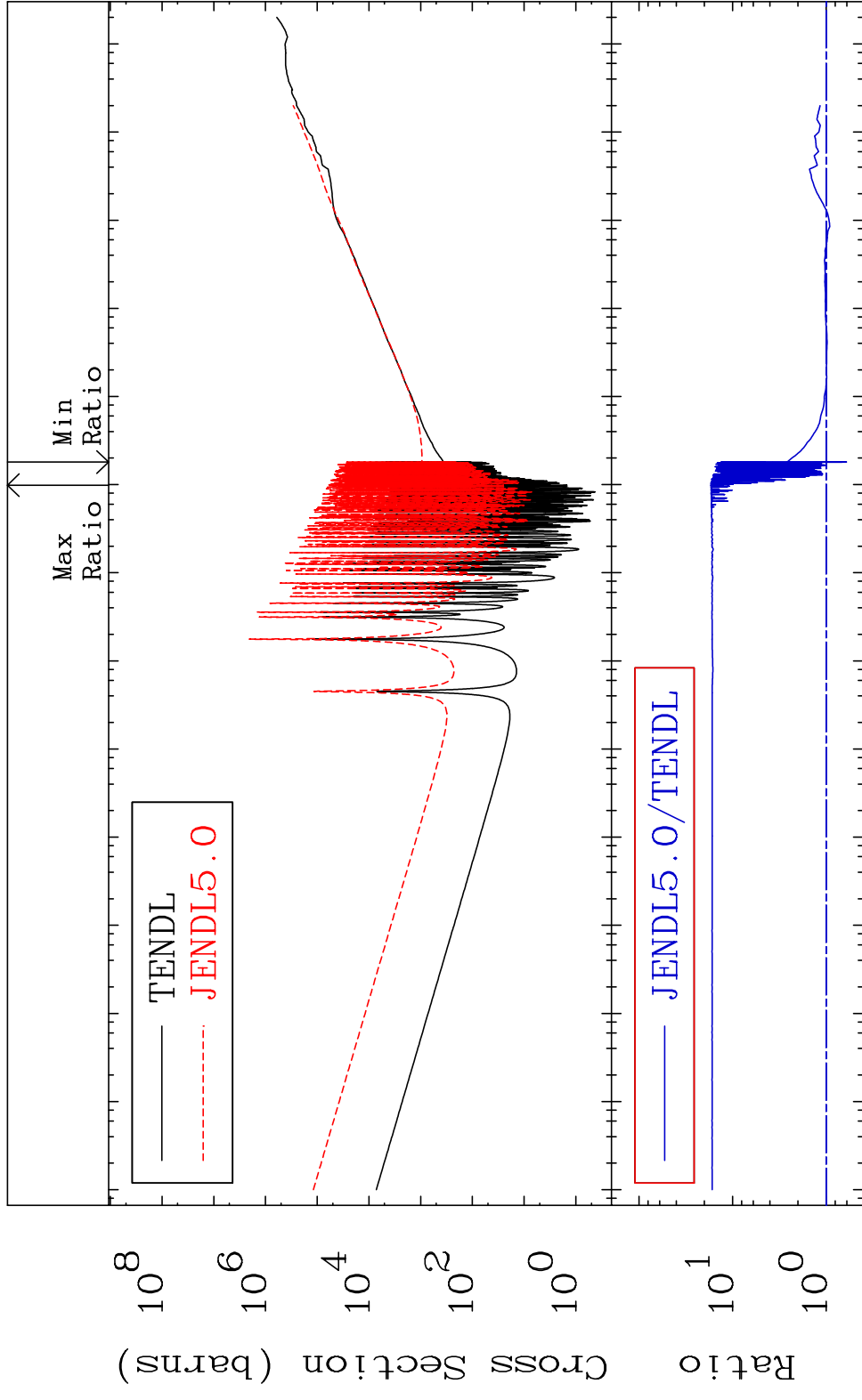


MAT 7040

Dpa total (eV-barns)

70-Yb-173

Cross Section -39.12 To 1611. %



43

Incident Energy (eV)

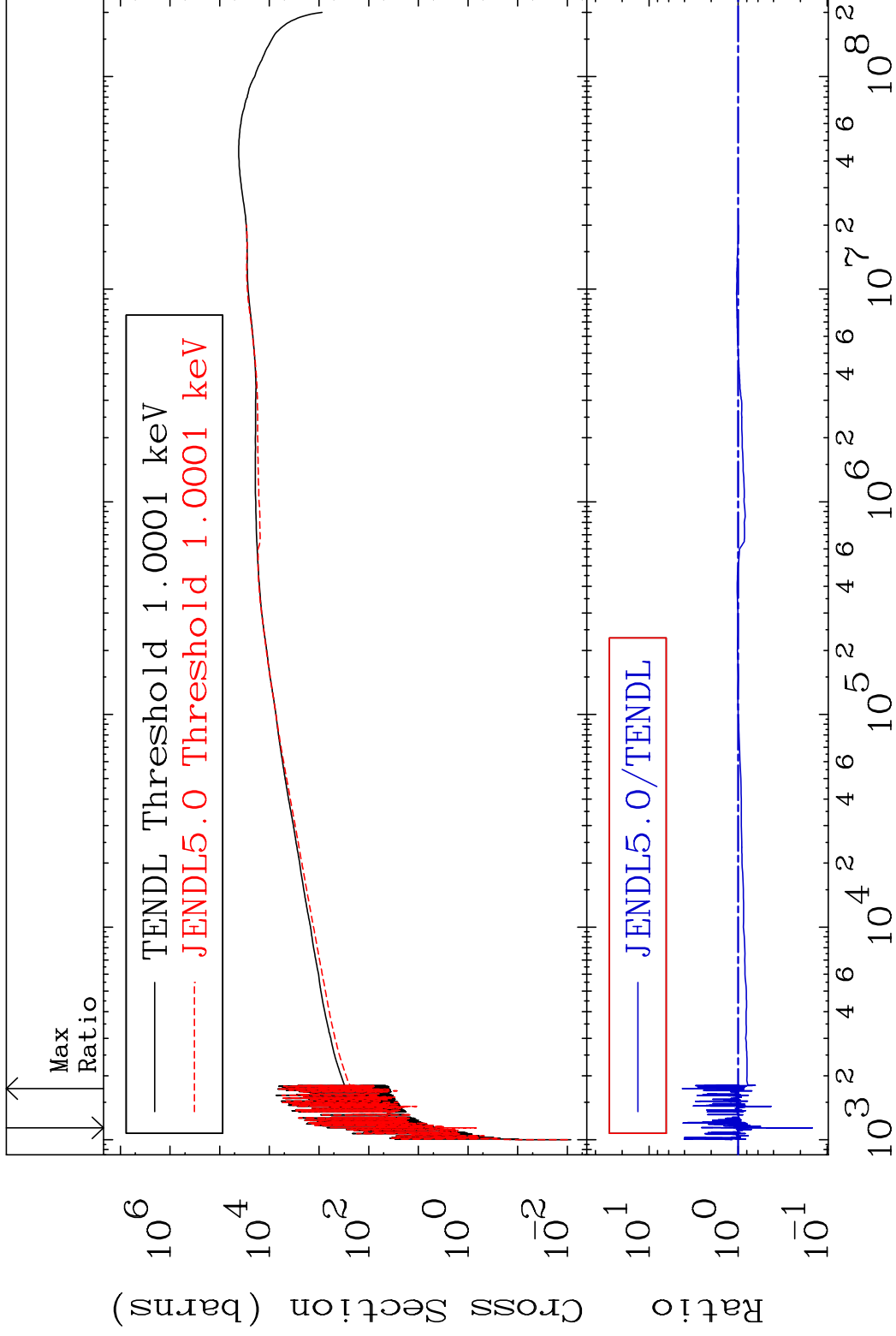
70-Yb-173

MAT 7040

Dpa elastic (mt2)

70-Yb-173

Cross Section -85.37 To 324.6 %

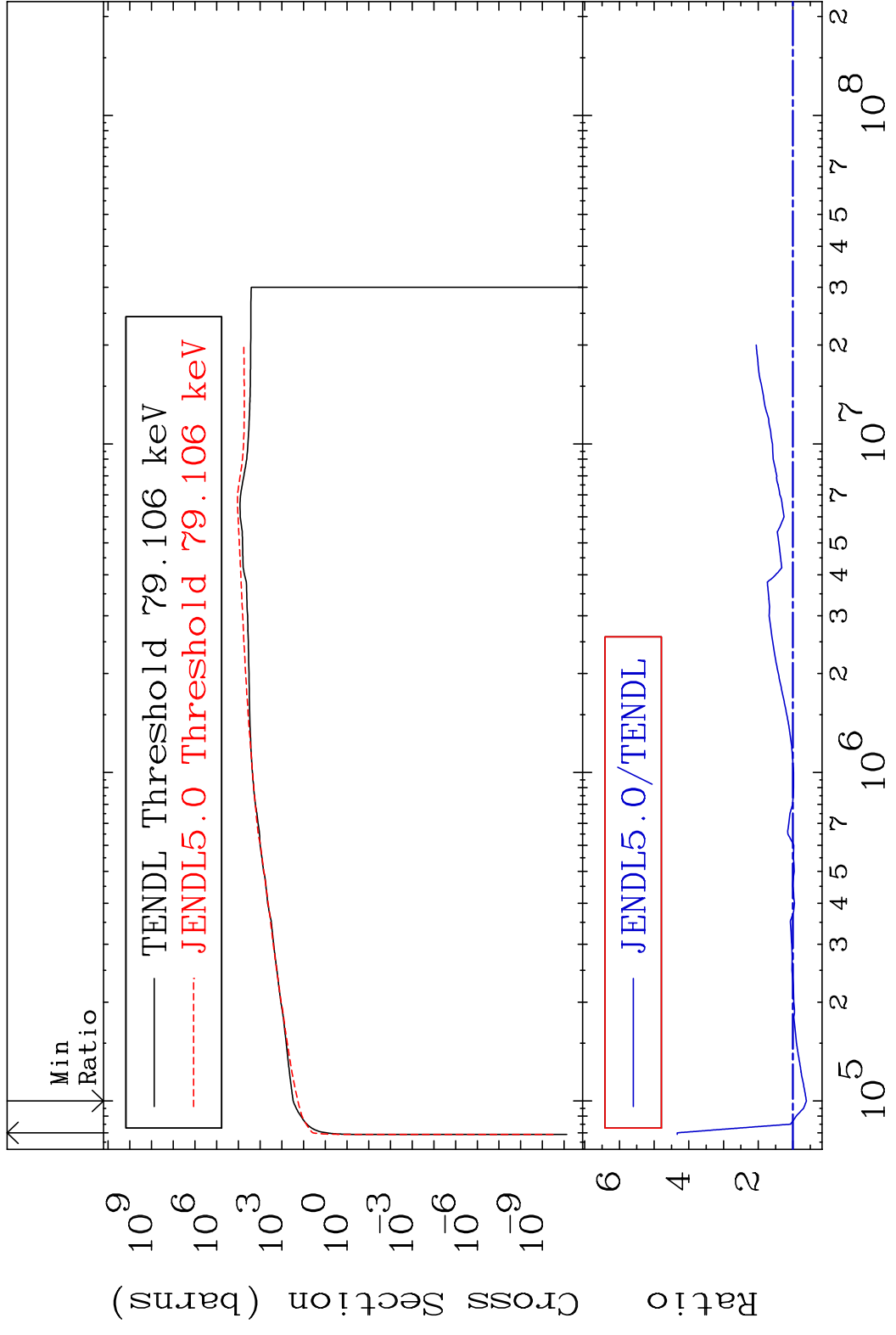


44

Incident Energy (eV)

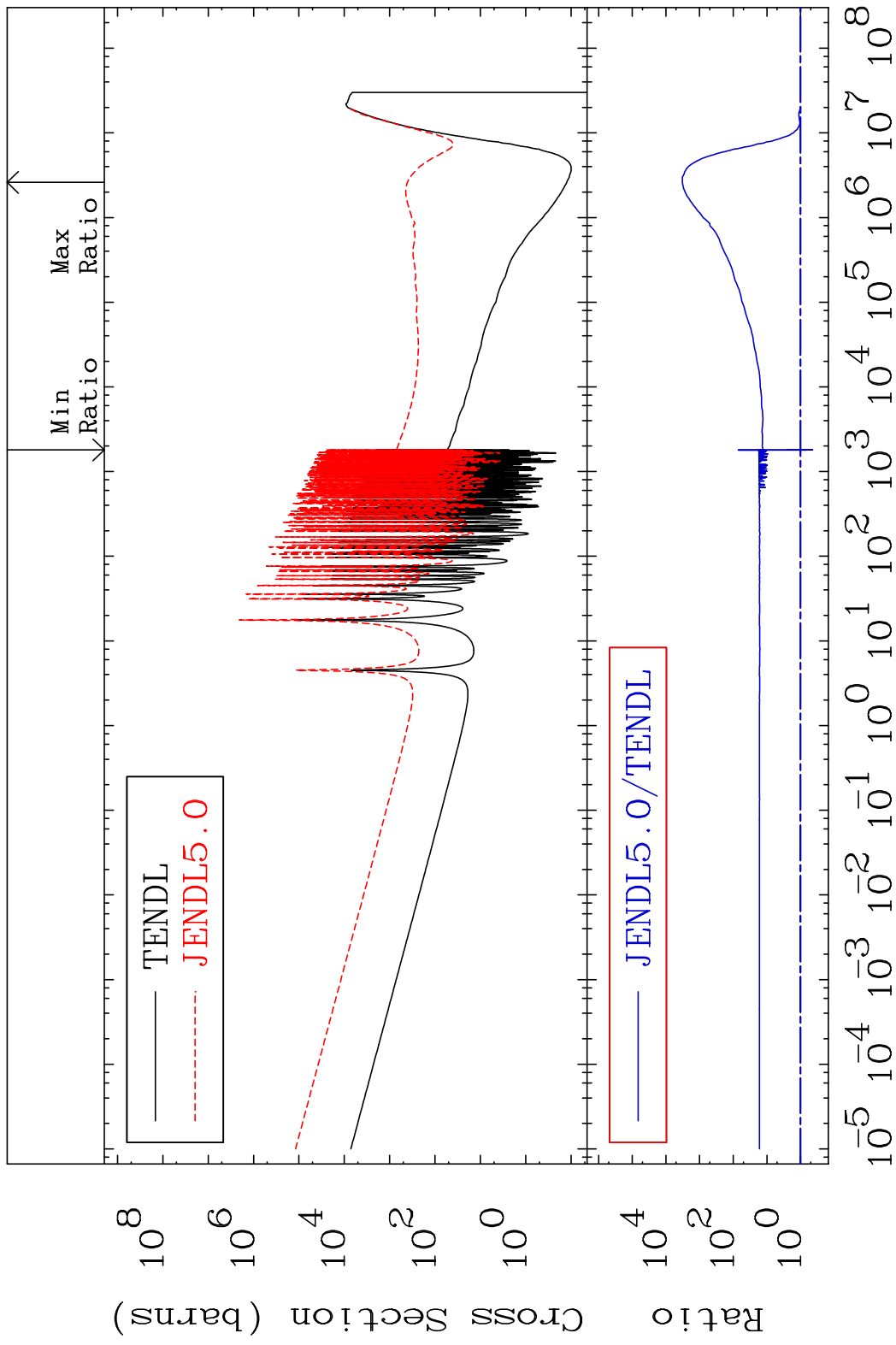
70-Yb-173

MAT 7040 Dpa inelastic (mt51-91) 70-Yb-173
Cross Section -38.87 To 333.5 %



45 Incident Energy (eV) 70-Yb-173

MAT 7040 Dpa disappearance (mt102 -120) 70-Yb-173
 Cross Section -55.92 To 9999. %

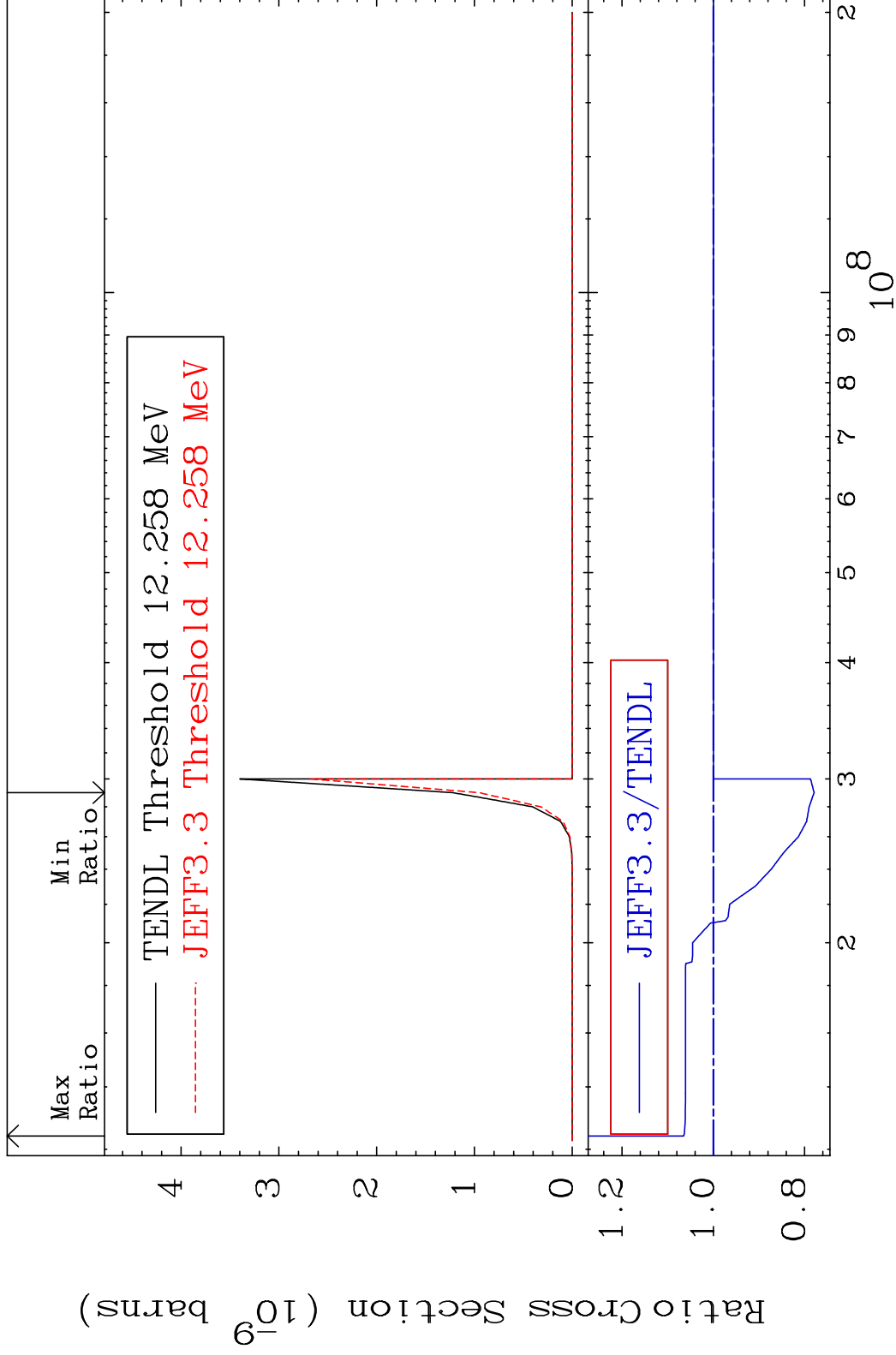


MAT 7040

(n,p) d

70-Yb-173

Cross Section -22.07 To 6.487 %



47

Incident Energy (eV)

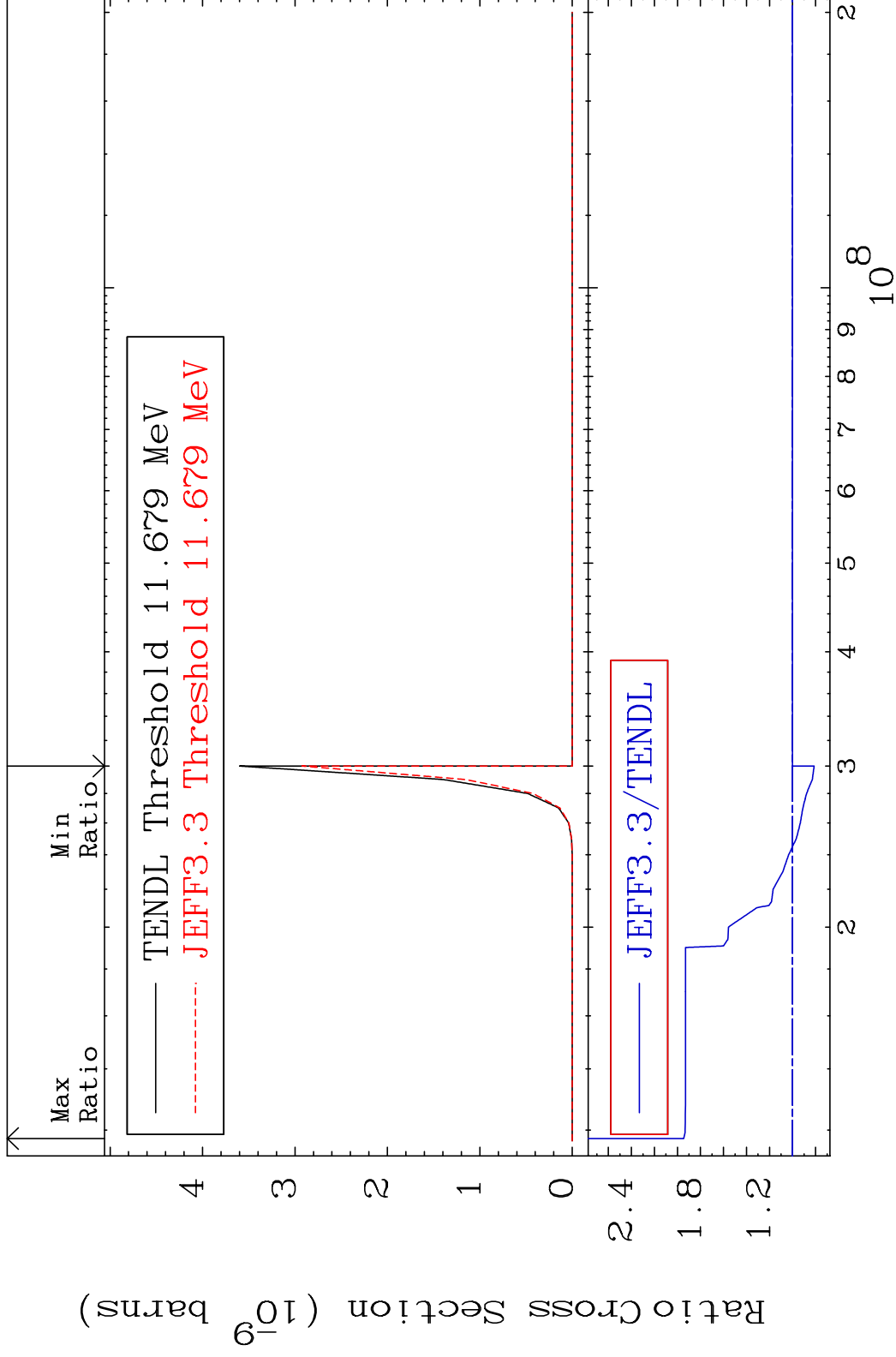
70-Yb-173

MAT 7040

(n,p) t

70-Yb-173

Cross Section -18.74 To 94.61 %



48

Incident Energy (eV)

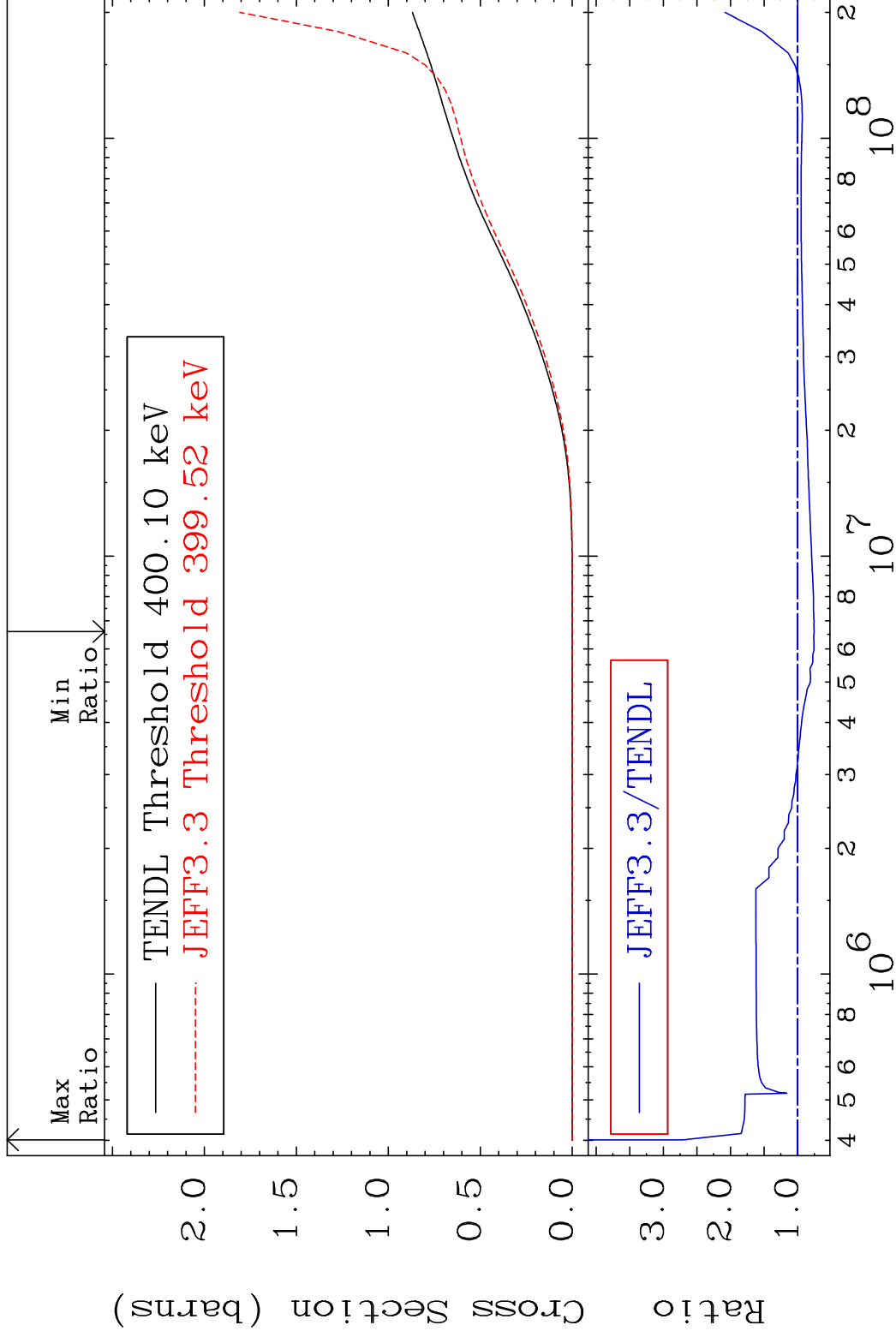
70-Yb-173

MAT 7040

Hydrogen Production

70-Yb-173

Cross Section -24.59 To 169.6 %



49

Incident Energy (eV)

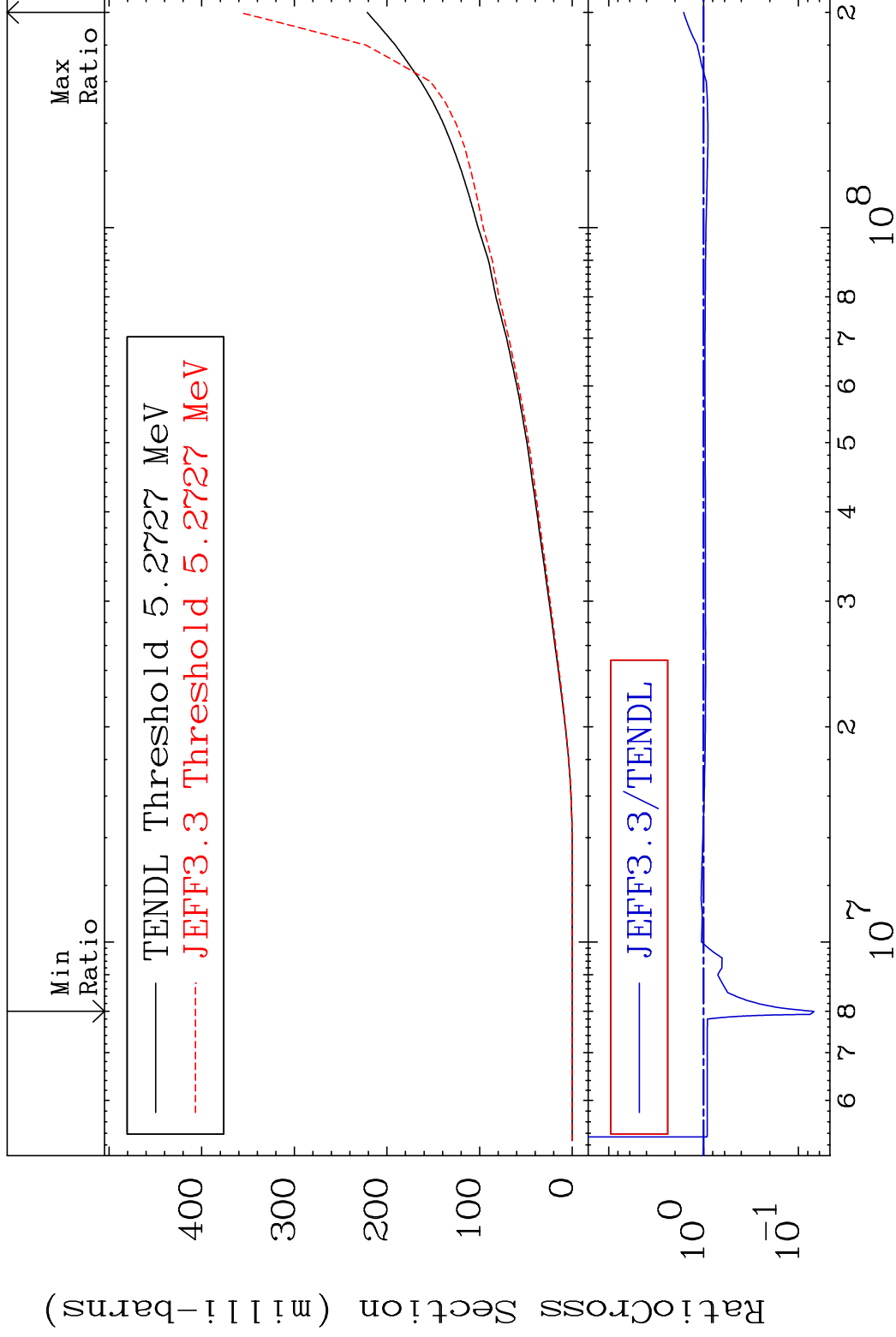
70-Yb-173

MAT 7040

Deuterium Production

70-Yb-173

Cross Section -93.16 To 62.22 %



50

Incident Energy (eV)

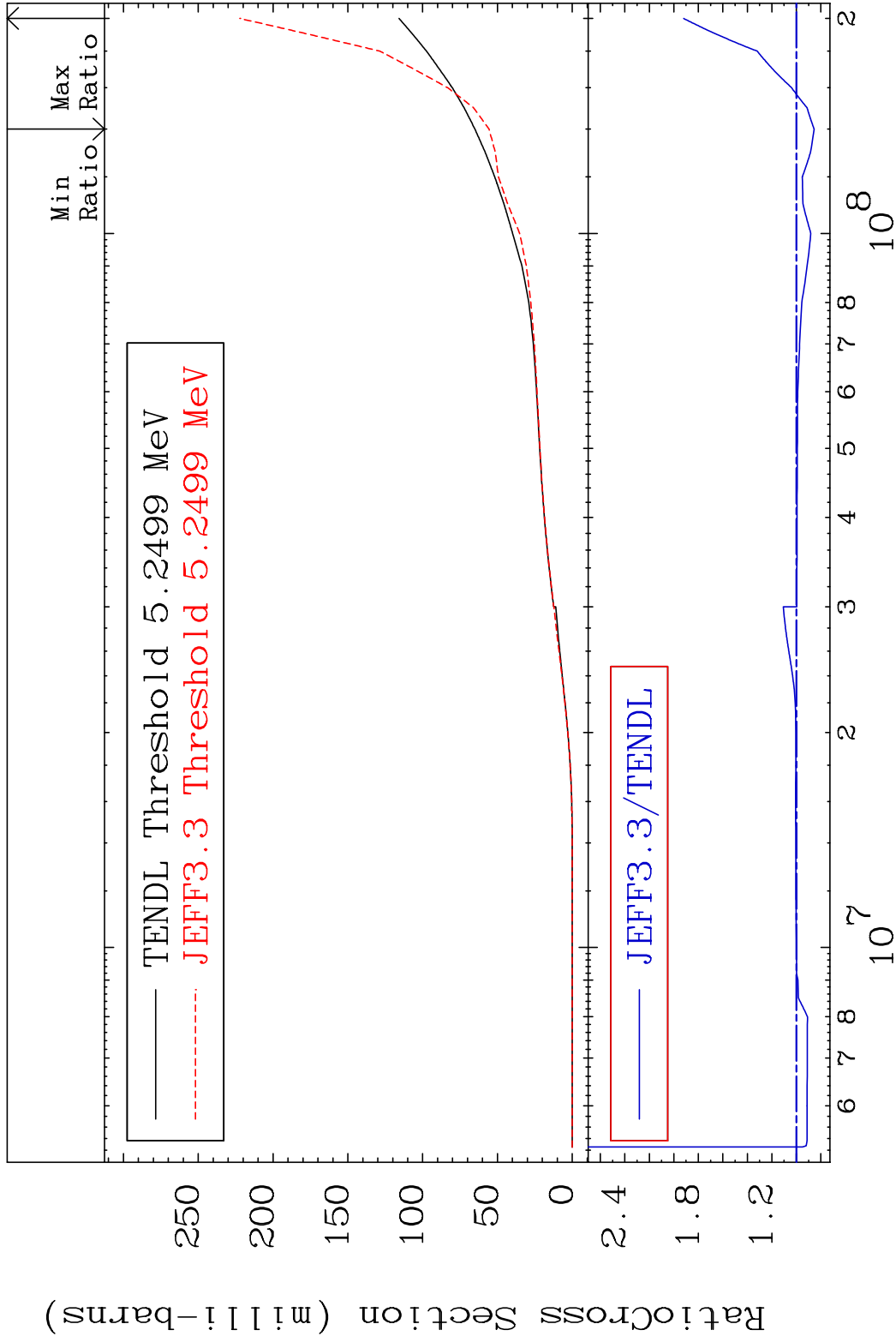
70-Yb-173

MAT 7040

Tritium Production

70-Yb-173

Cross Section -14.48 To 91.98 %

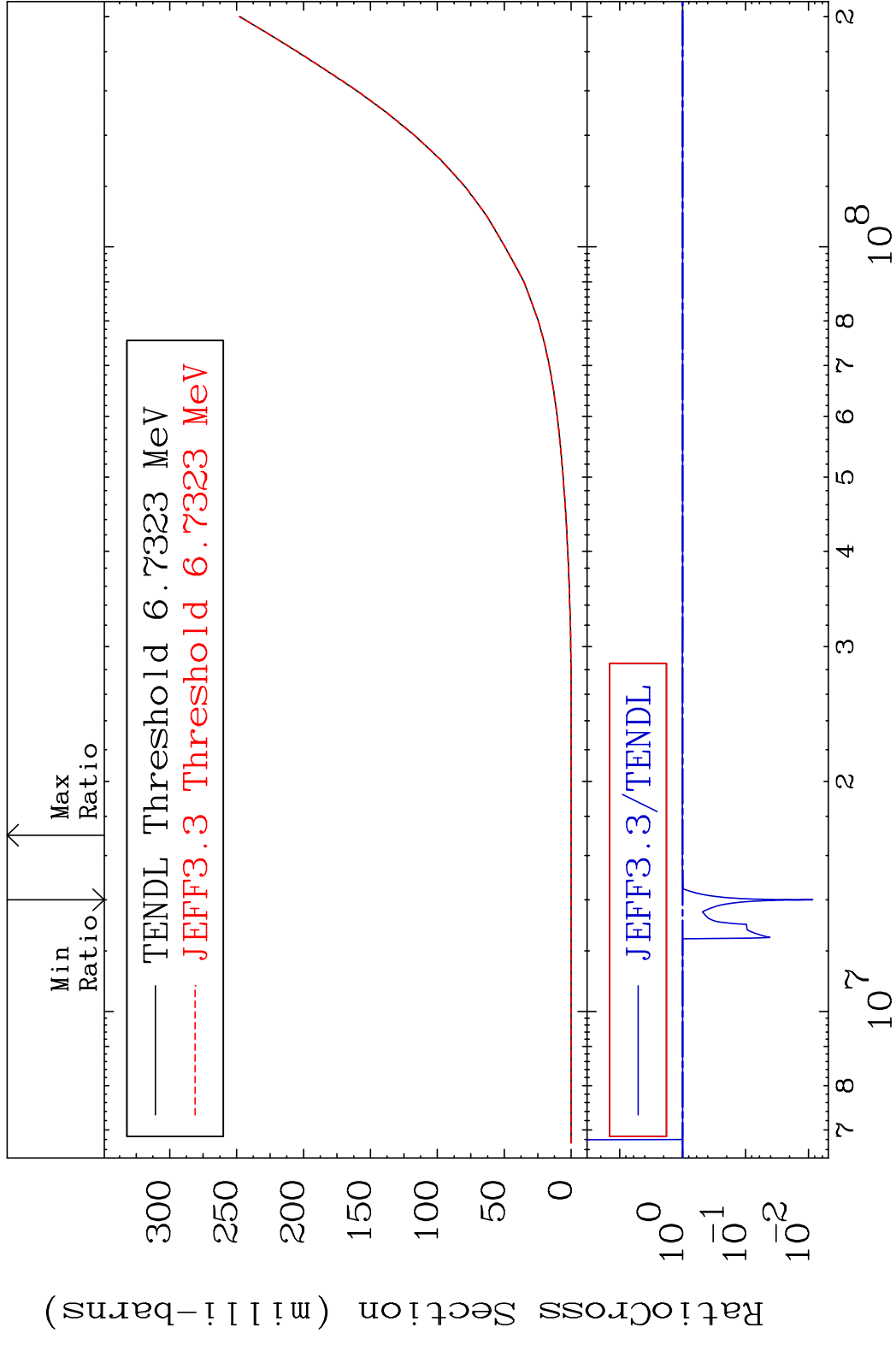


MAT 7040

He-3 Production

70-Yb-173

Cross Section -99.14 To 0.959 %

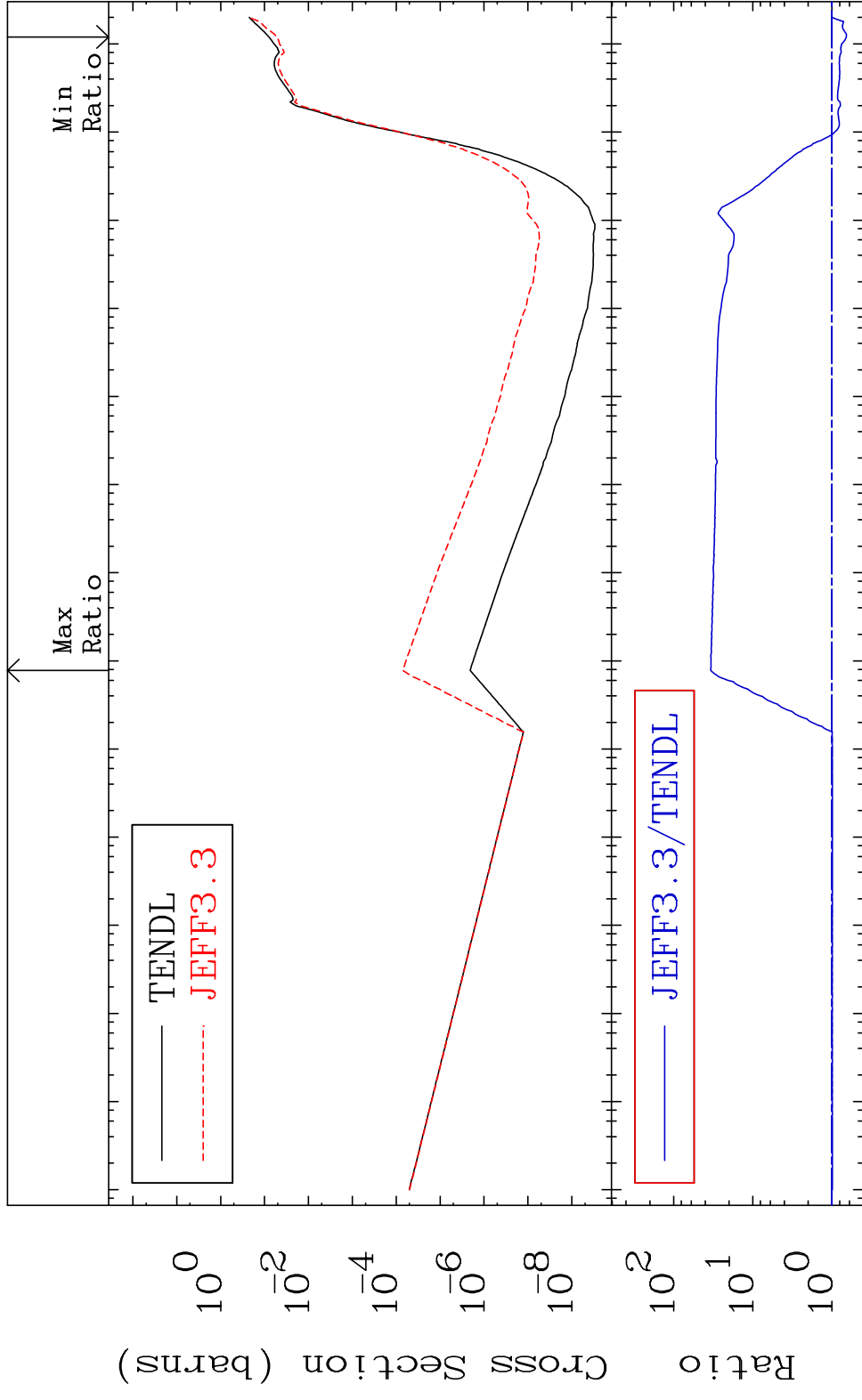


MAT 7040

He-4 Production

70-Yb-173

Cross Section -34.14 To 3306. %



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

53

Incident Energy (eV)

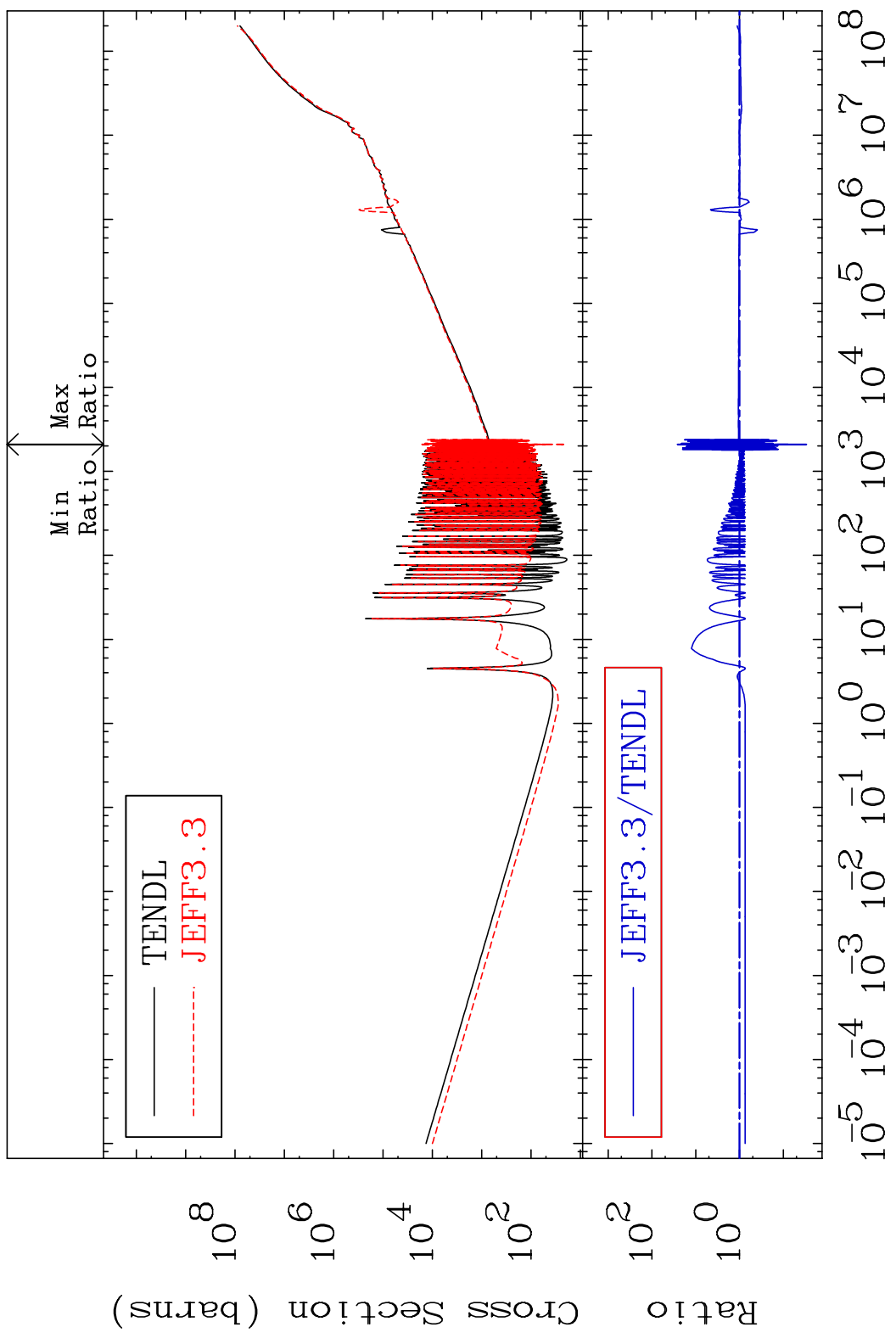
70-Yb-173

MAT 7040

Kerma total (eV-barns)

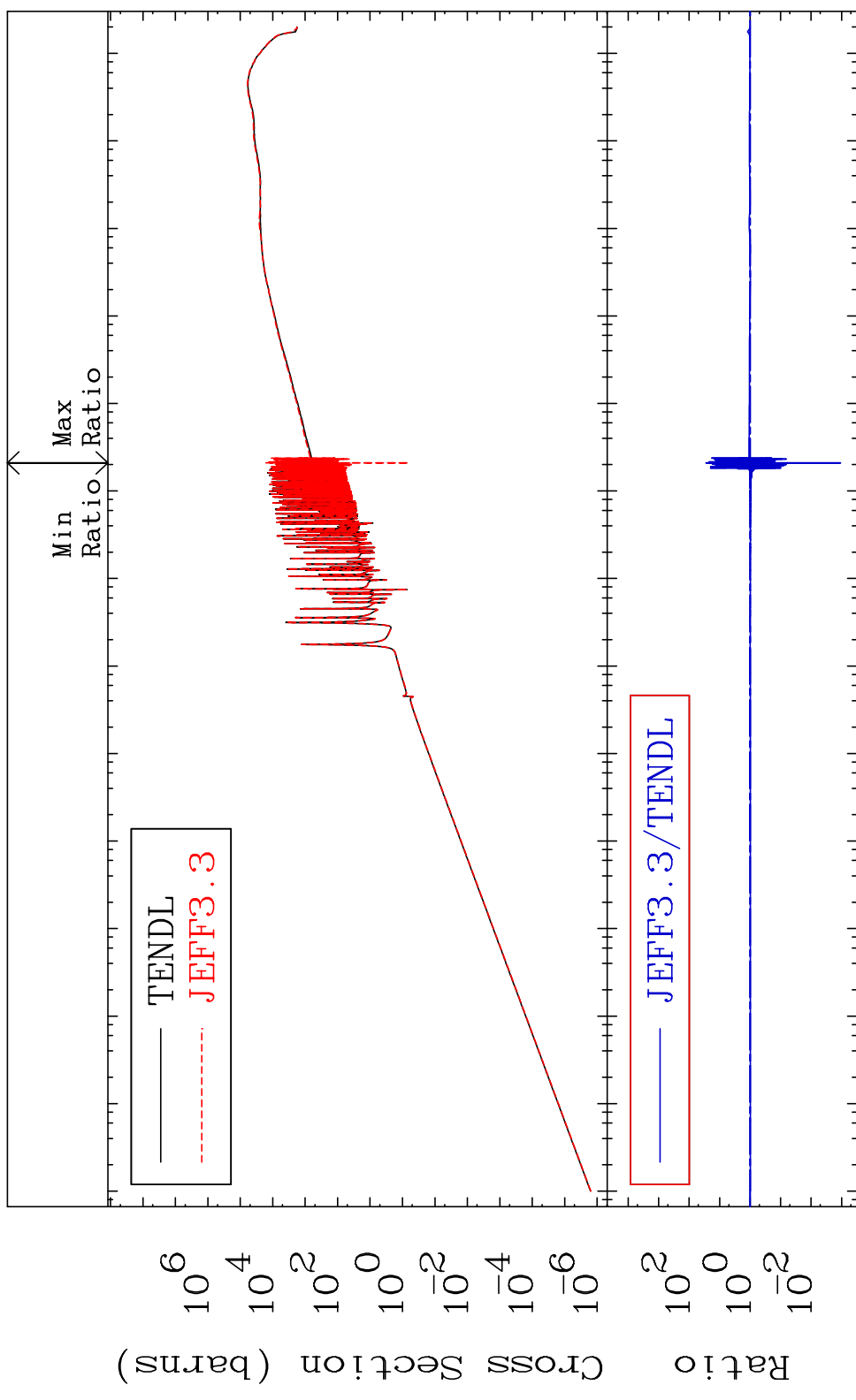
70-Yb-173

Cross Section -97.03 To 2551. %



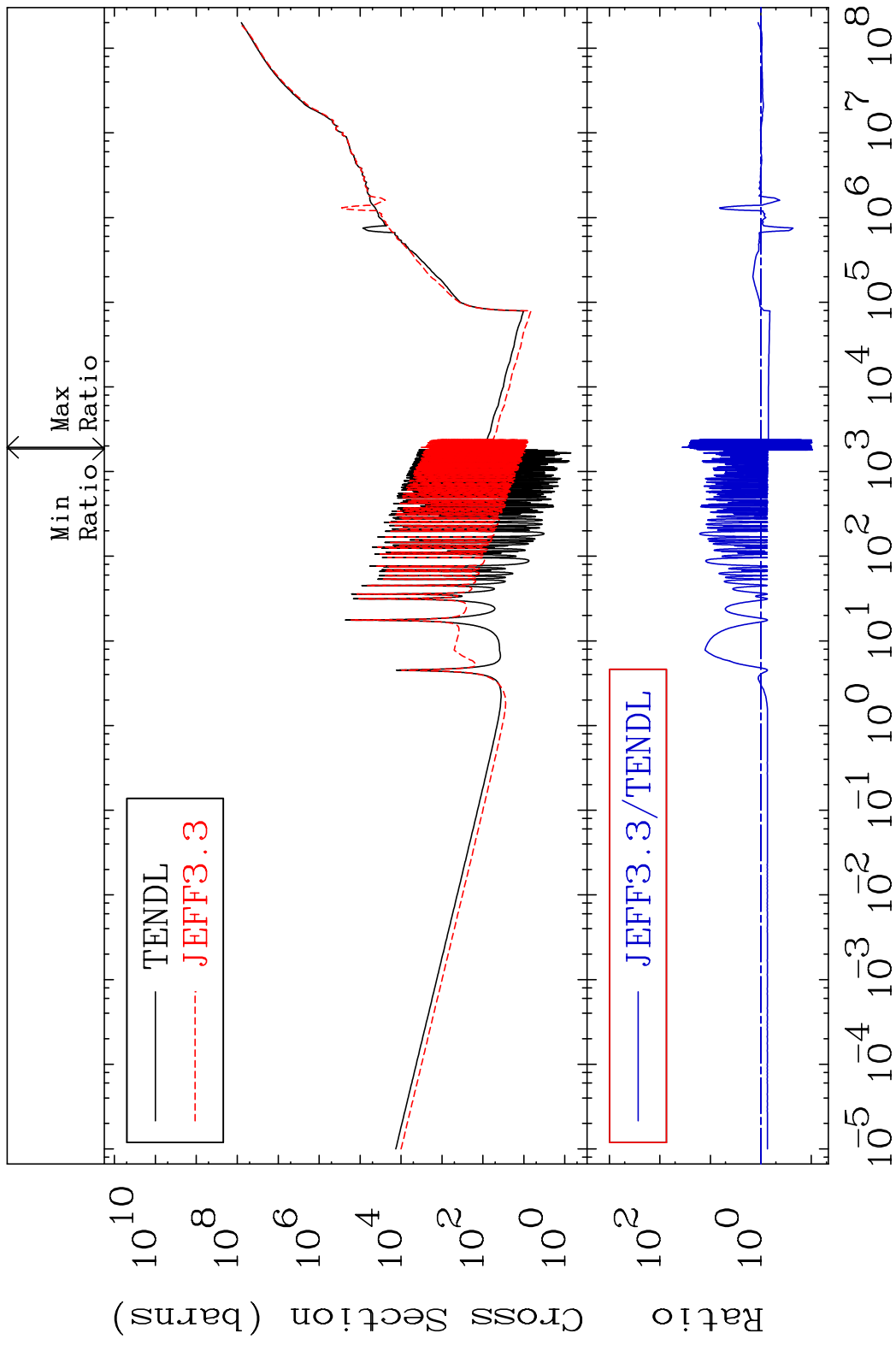
MAT 7040

Kerma elastic Cross Section -99.89 To 2750. %
70-Yb-173



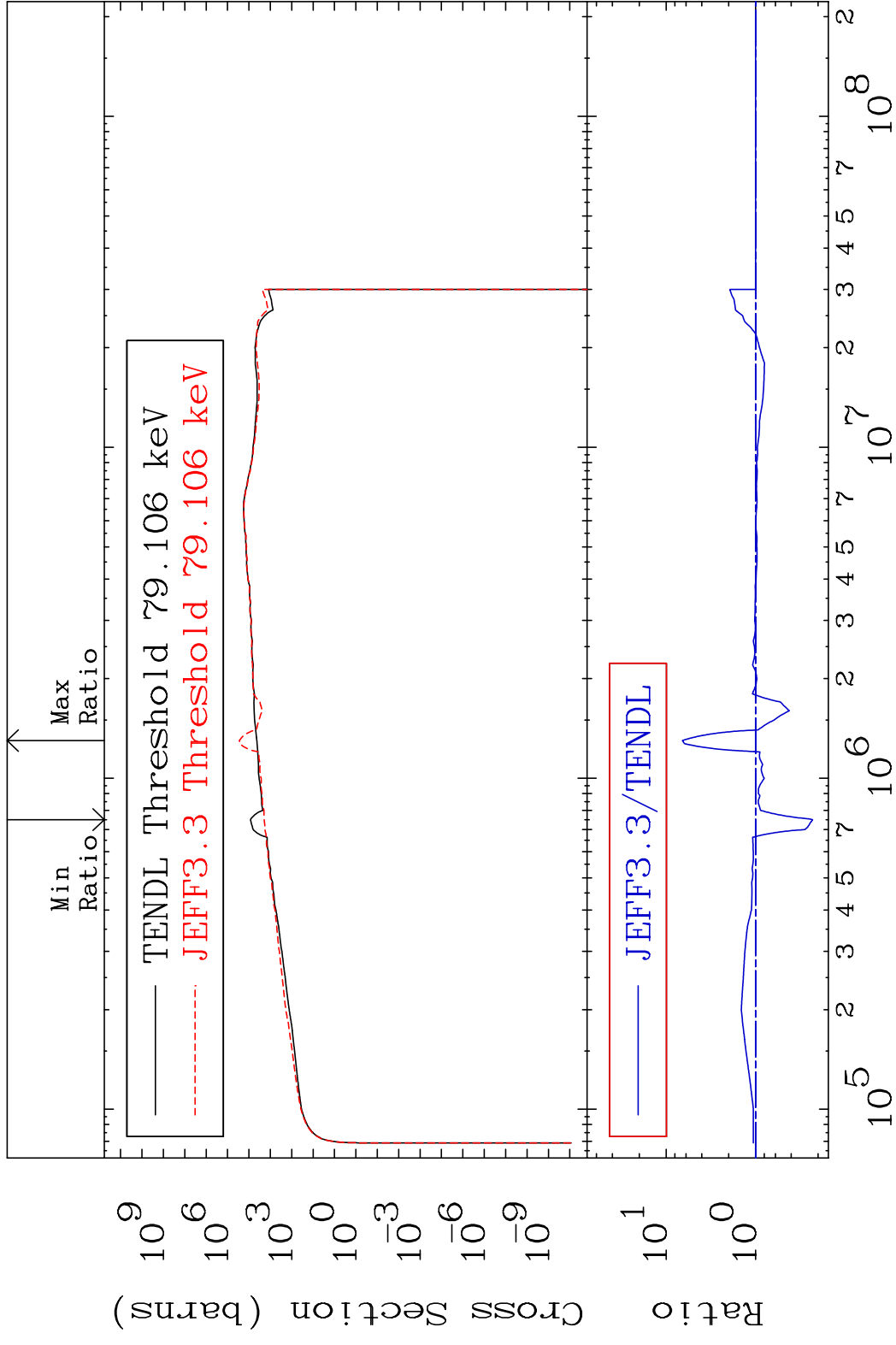
Incident Energy (eV) 70-Yb-173

MAT 7040 Kerma non-elastic (all but mt2) 70-Yb-173
 Cross Section -90.57 To 3485. %

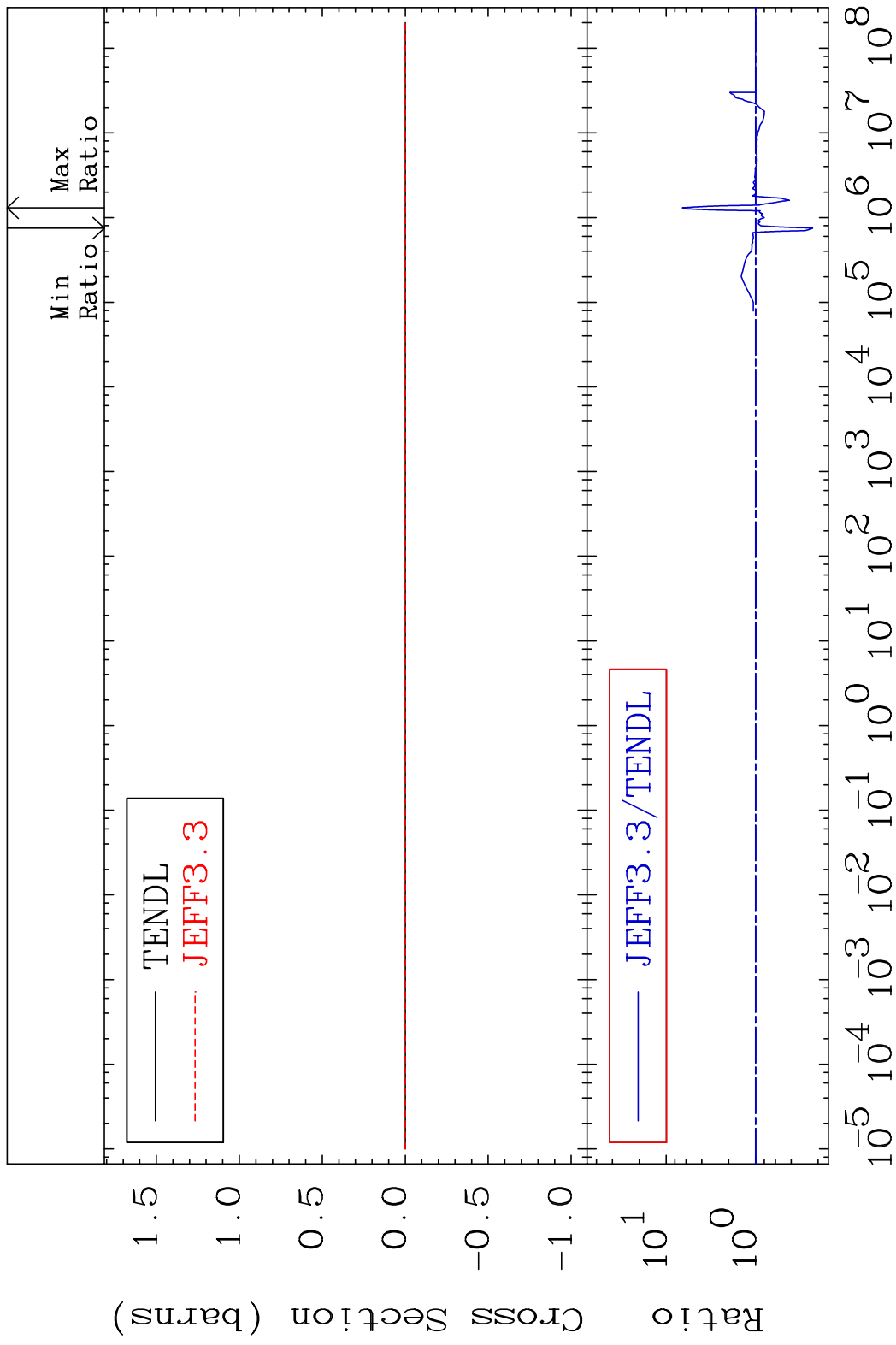


MAT 7040

Kerma inelastic (mt51-91) 70-Yb-173
Cross Section -76.97 To 558.1 %

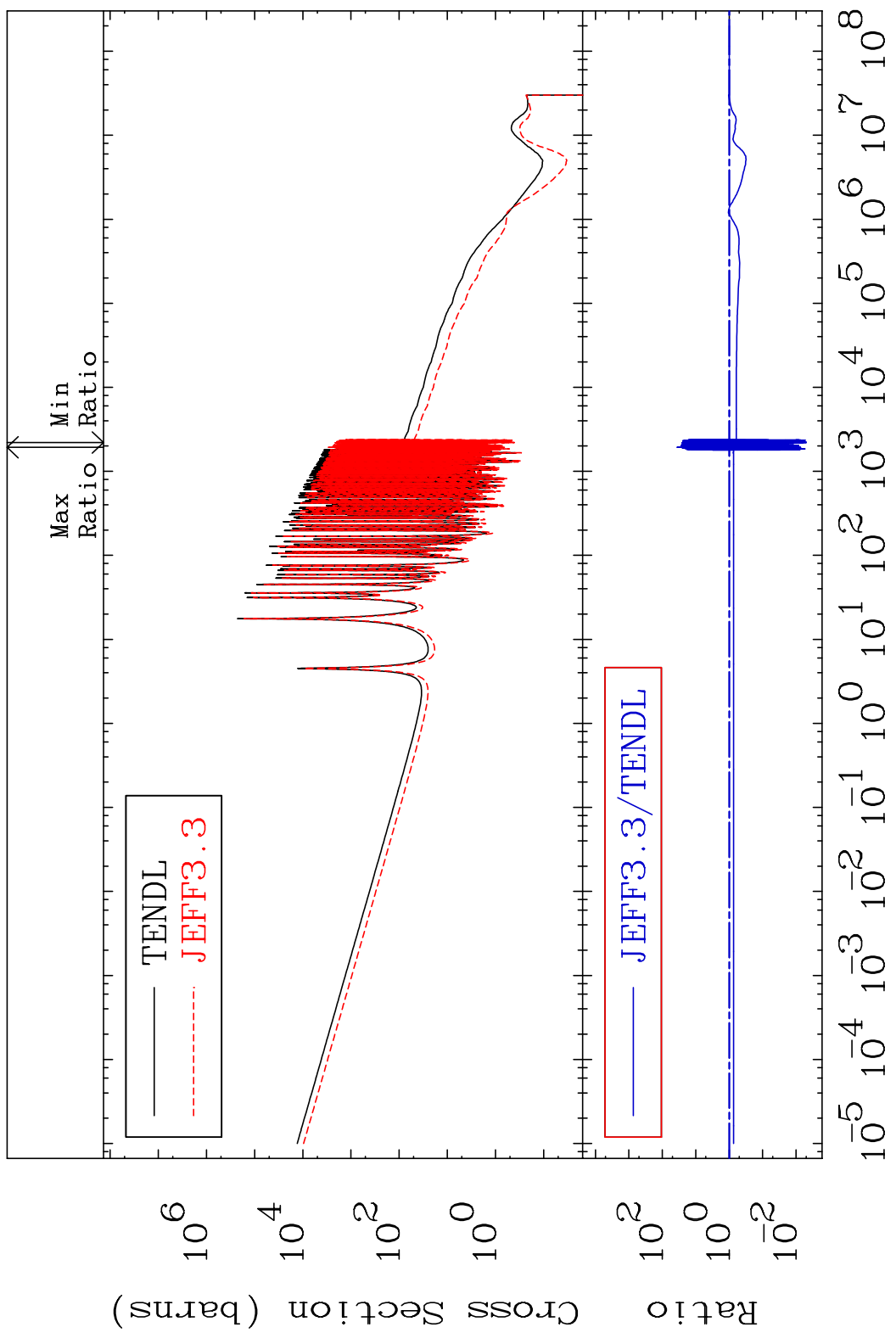


MAT 7040 Kerma fission (mt18 or mt19-20-21-38)70-Yb-173
 Cross Section -76.97 To 558.1 %



MAT 7040

Kerma capture (mt102) 70-Yb-173
Cross Section -99.51 To 3487. %



59

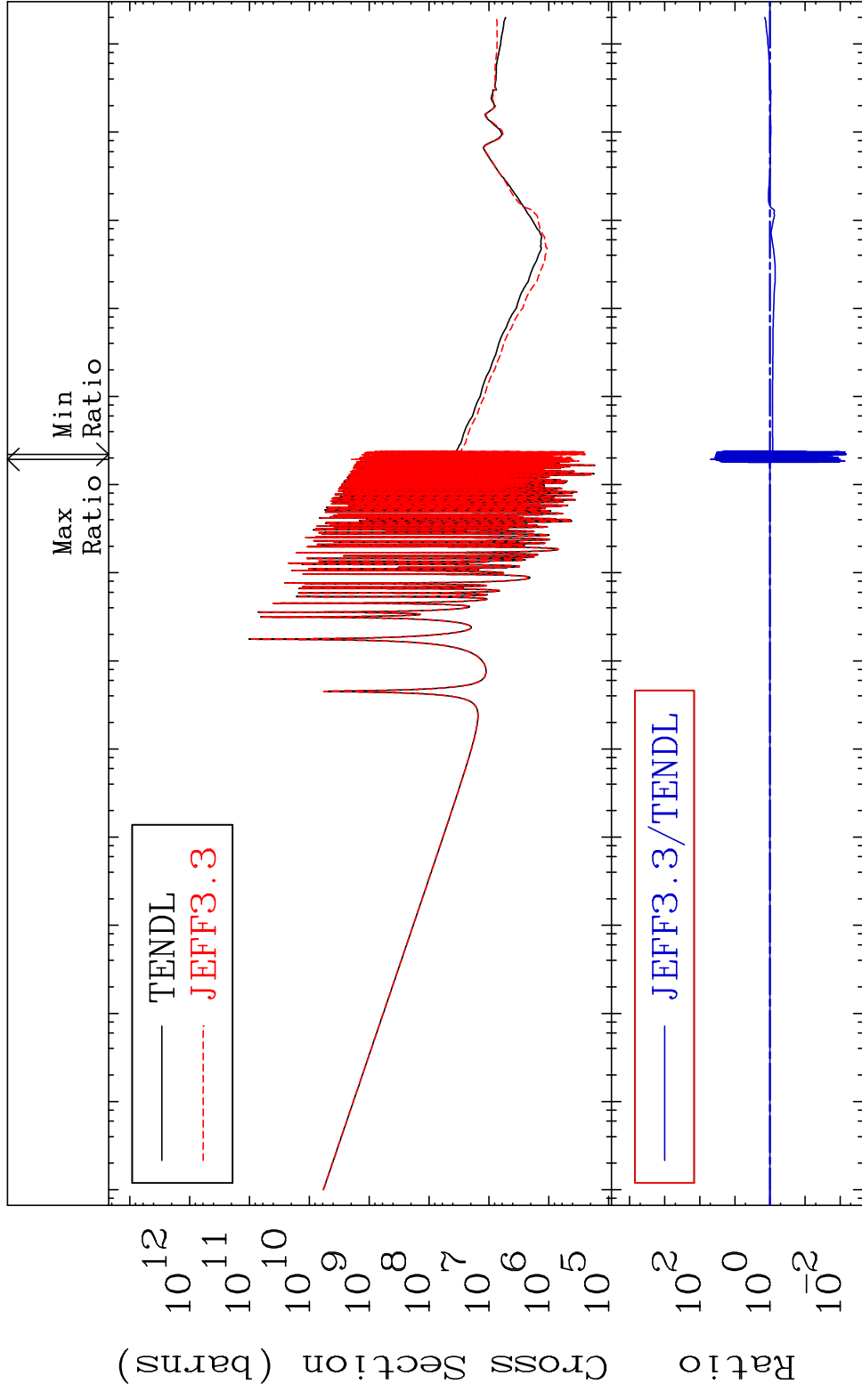
Incident Energy (eV) 70-Yb-173

MAT 7040

Total photon (eV-barns)

70-Yb-173

Cross Section -99.33 To 4788. %

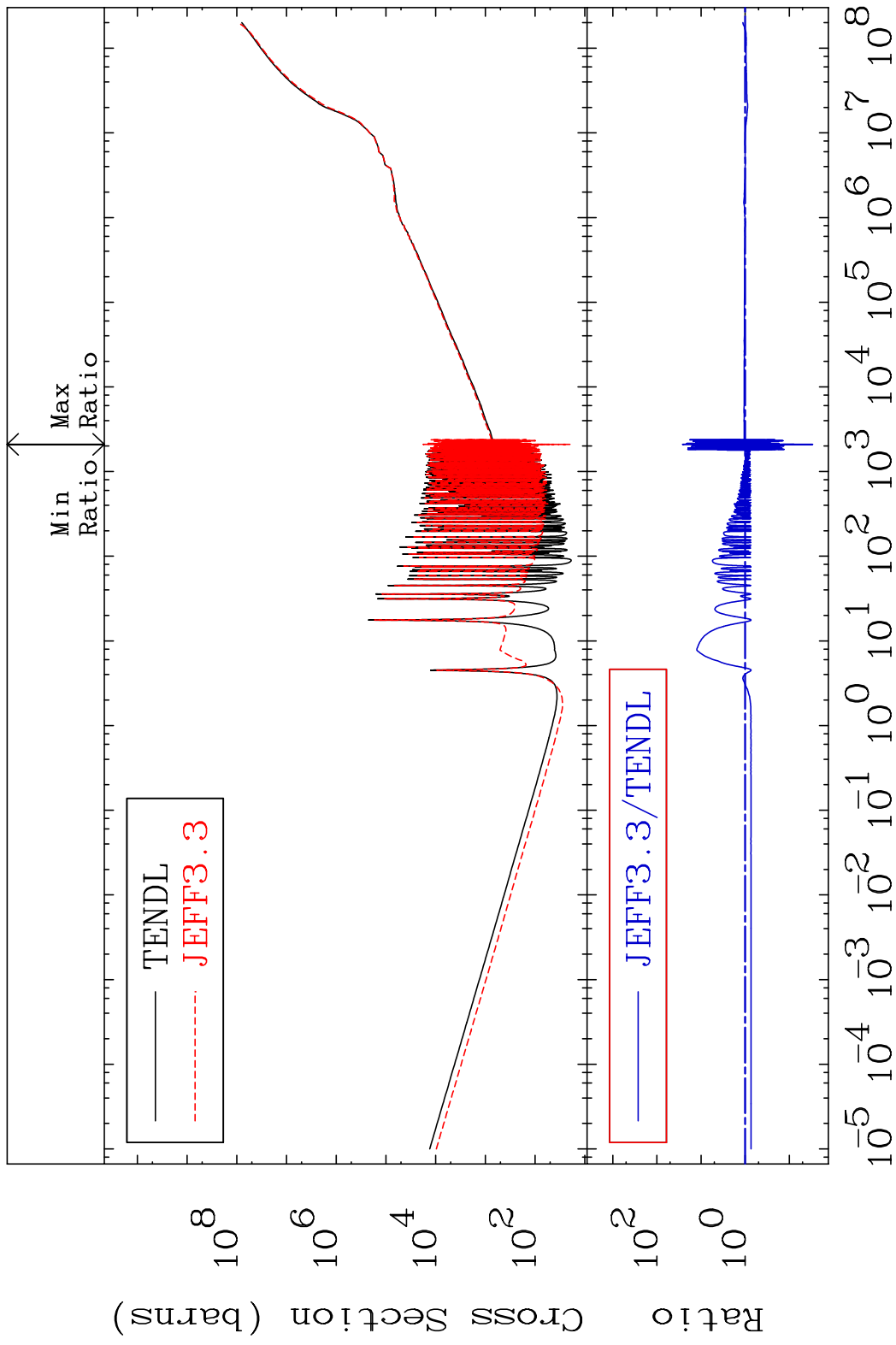


60

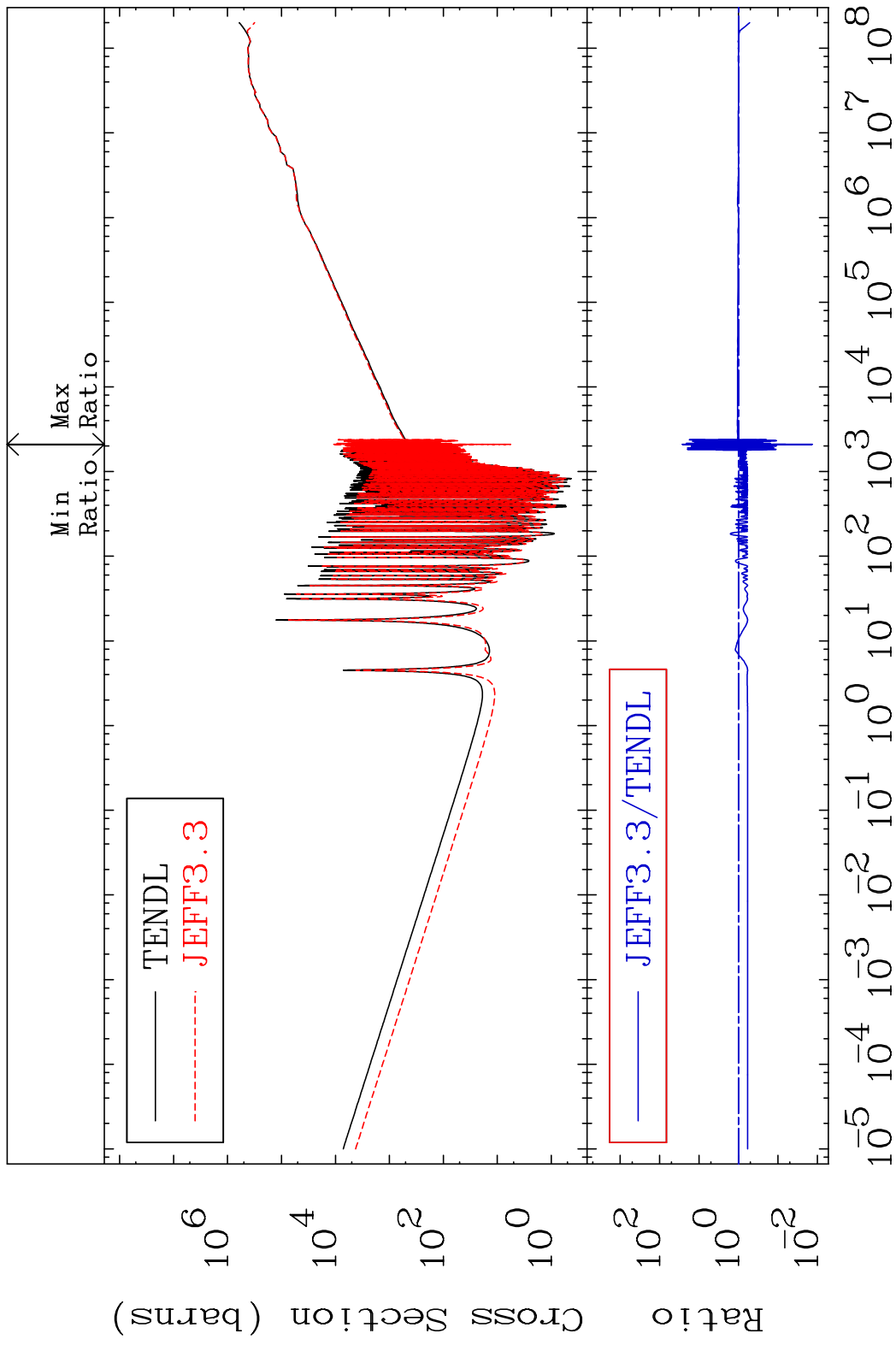
Incident Energy (eV)

70-Yb-173

MAT 7040 Total kinematic kerma (high limit) 70-Yb-173
 Cross Section -97.02 To 2551. %



MAT 7040 Dpa total (eV-barns) 70-Yb-173
 Cross Section -98.68 To 2554. %

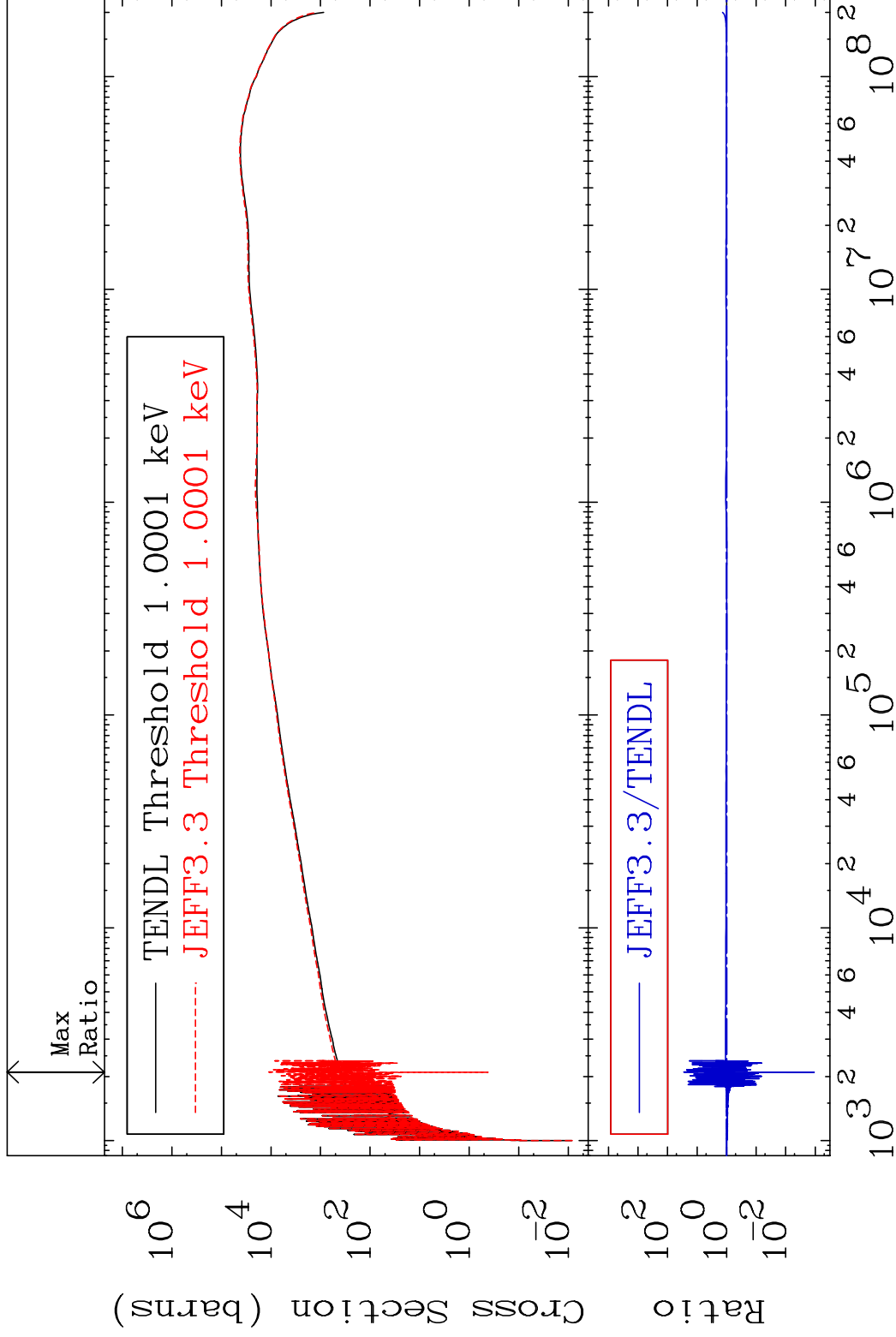


MAT 7040

Dpa elastic (mt2)

70-Yb-173

Cross Section -99.89 To 2752. %

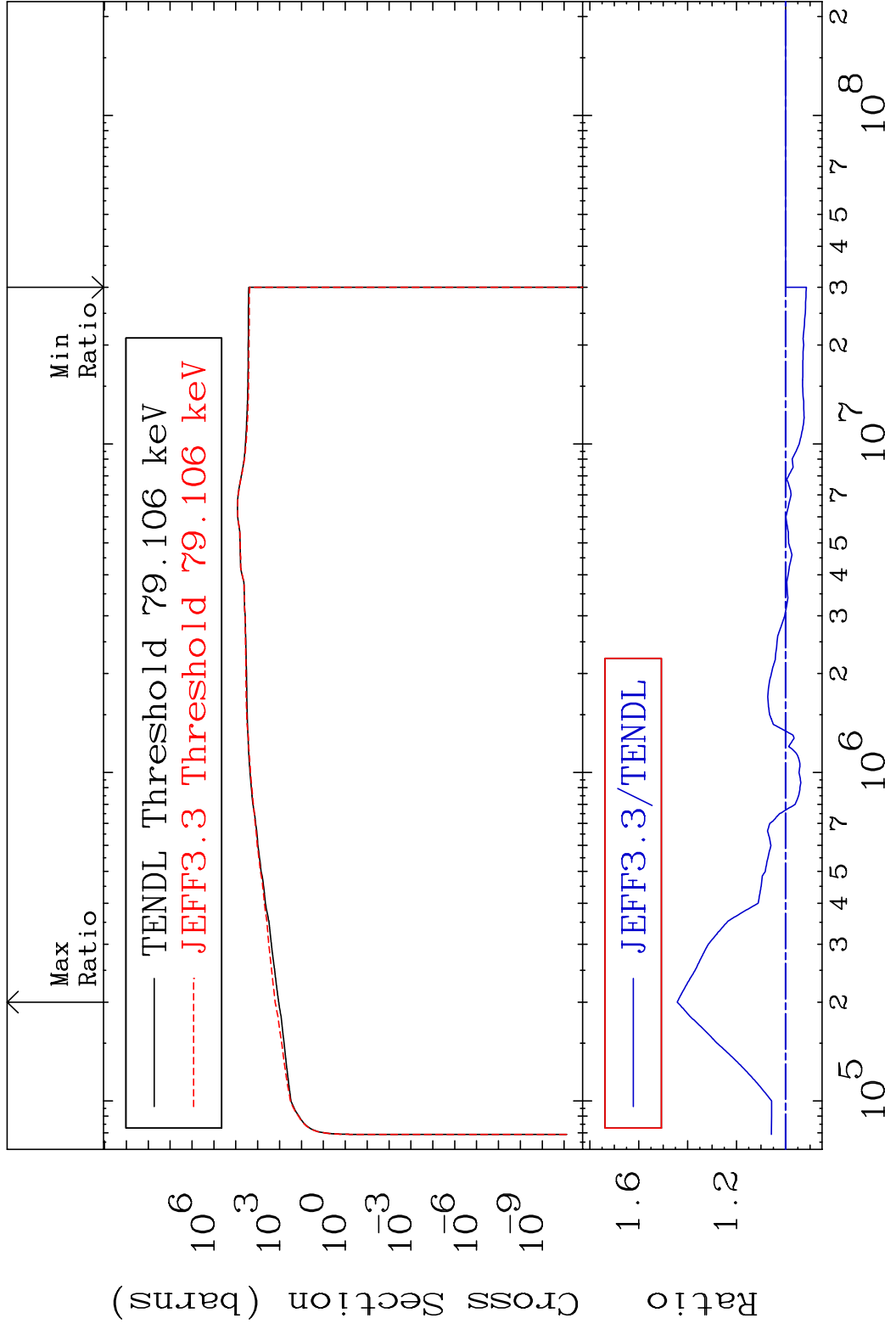


63

Incident Energy (eV)

70-Yb-173

MAT 7040 Dpa inelastic (mt51-91) 70-Yb-173
 Cross Section -8.539 To 44.31 %



MAT 7040 Dpa disappearance (mt102 -120) 70-Yb-173
 Cross Section -99.30 To 2771. %

