

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

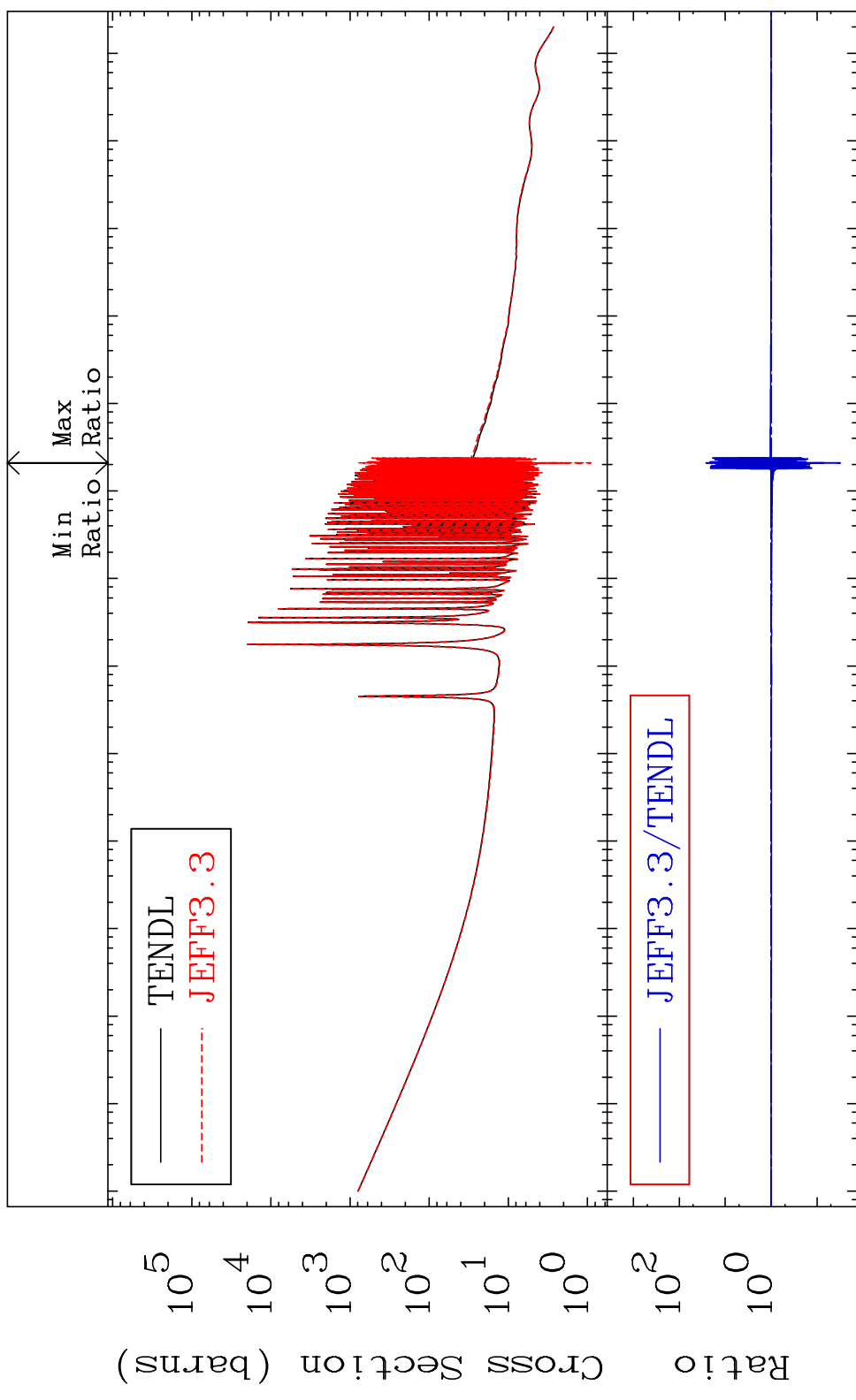
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7040

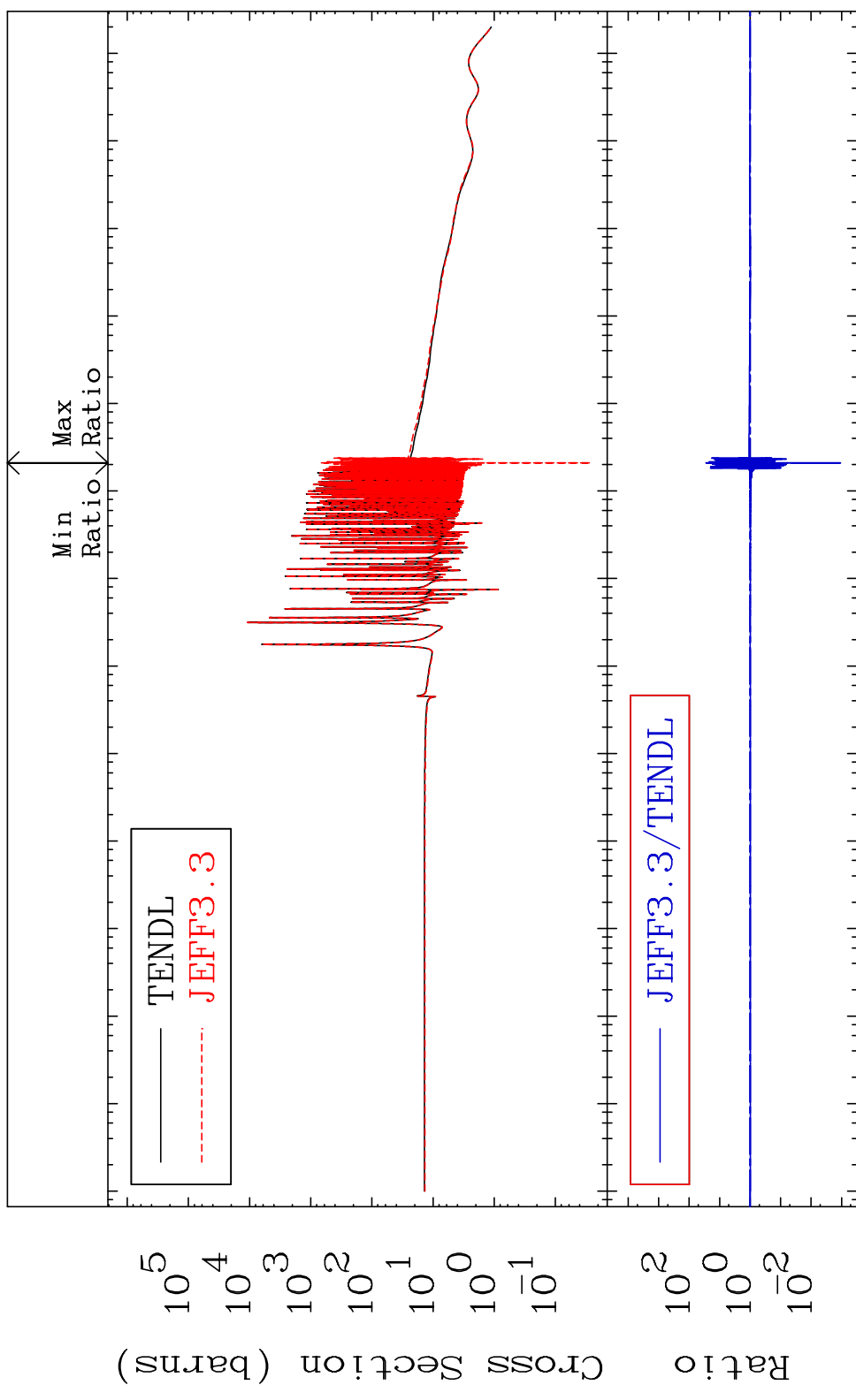
Total 70-Yb-173
Cross Section -96.90 To 2557. %



Ratio
10²
10⁰
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV) 70-Yb-173

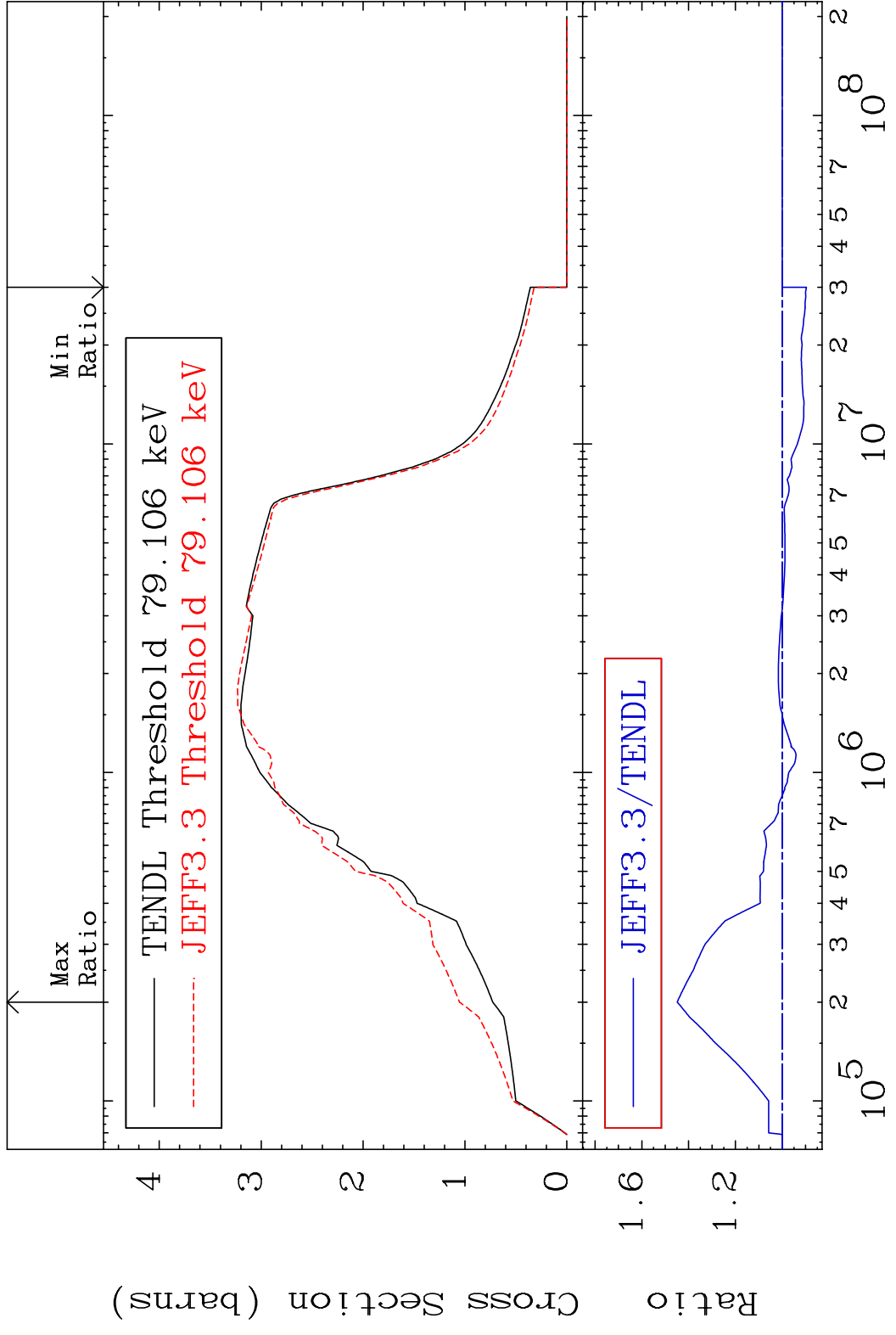
MAT 7040

Elastic Cross Section -99.89 To 2747. %
70-Yb-173



2 Incident Energy (eV) 70-Yb-173

MAT 7040 Inelastic 70-Yb-173
 Cross Section -10.33 To 44.89 %



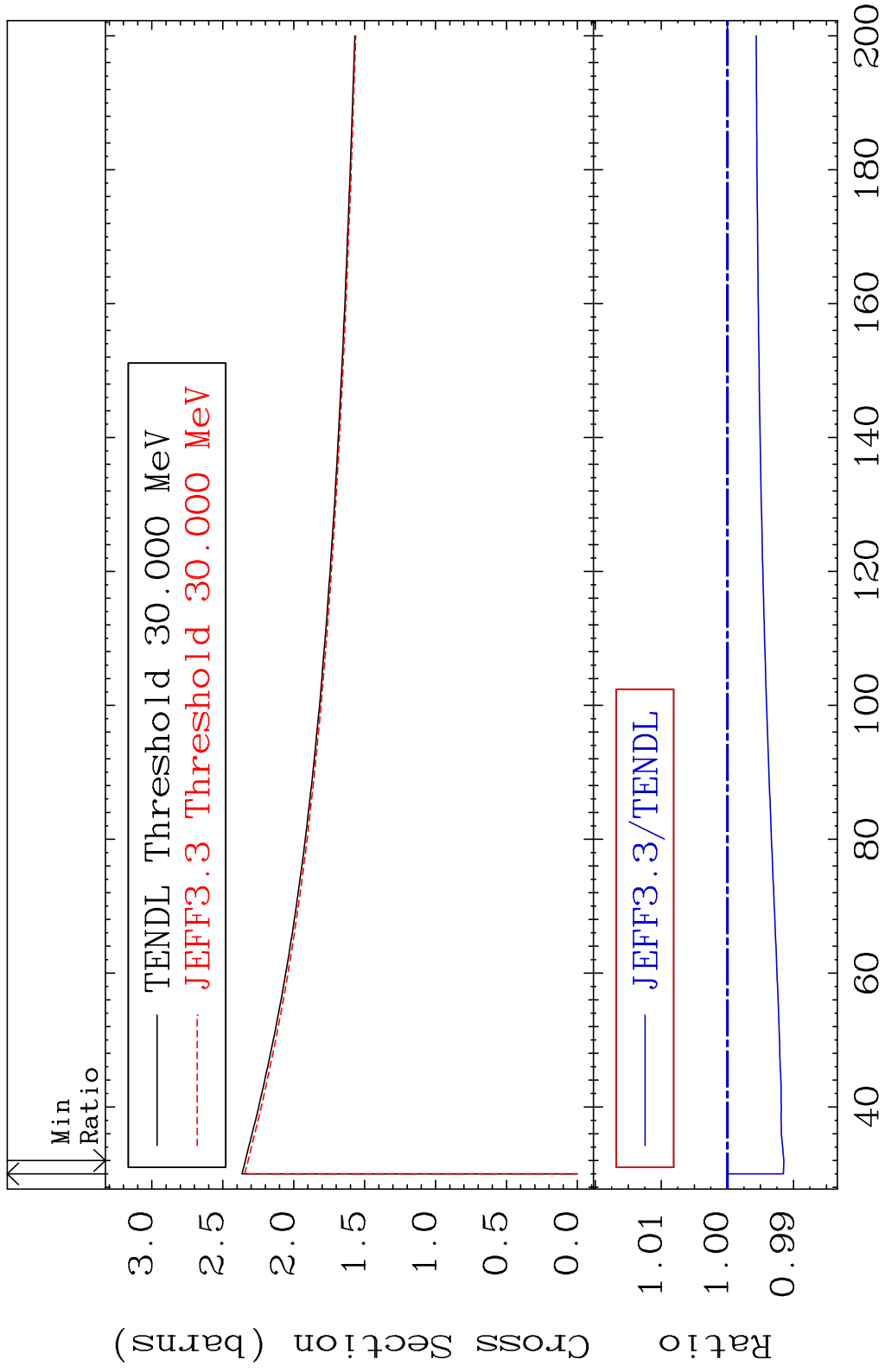
3 10⁵ 10⁶ 10⁷ 10⁸ 70-Yb-173

MAT 7040

(n, remainder)

70-Yb-173

Cross Section -0.854 To 0.000 %

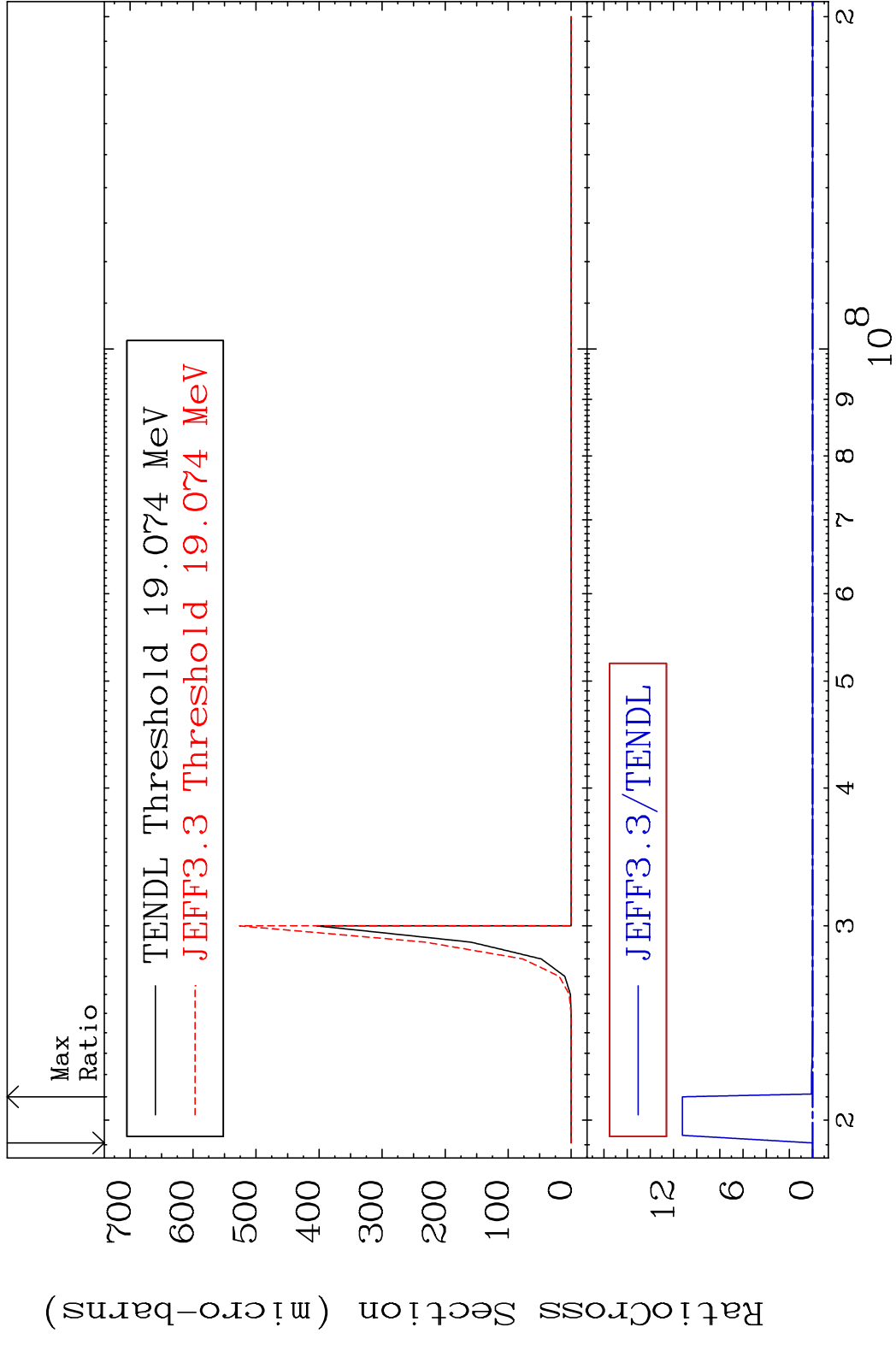


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Incident Energy (MeV)

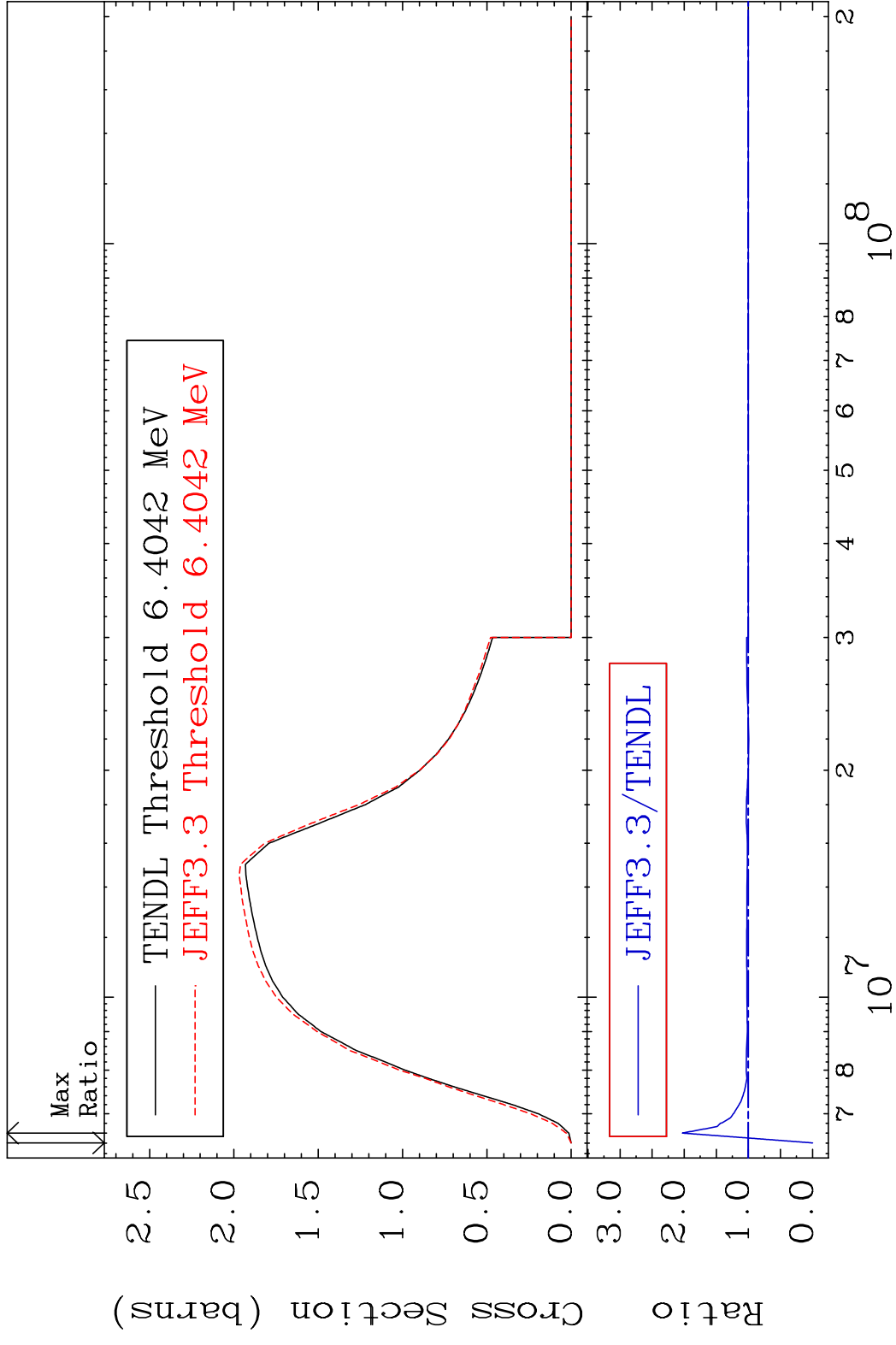
70-Yb-173

MAT 7040 (n,2n) d 70-Yb-173
 Cross Section -100.0 To 9999. %



5 Incident Energy (eV) 70-Yb-173

MAT 7040 (n,2n) 70-Yb-173
 Cross Section -100.0 To 102.9 %

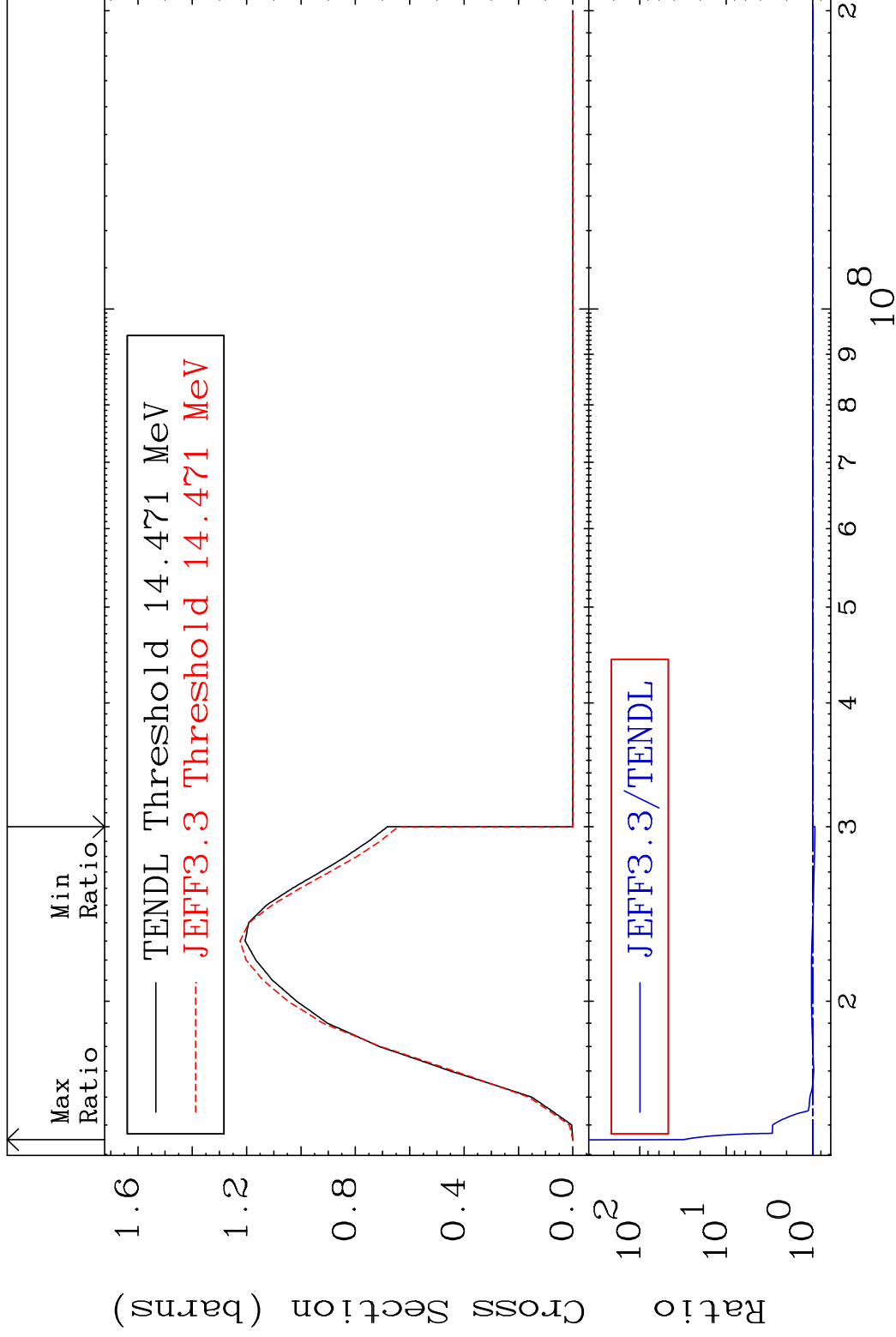


MAT 7040

(n,3n)

70-Yb-173

Cross Section -5.894 To 2949. %



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Incident Energy (eV)

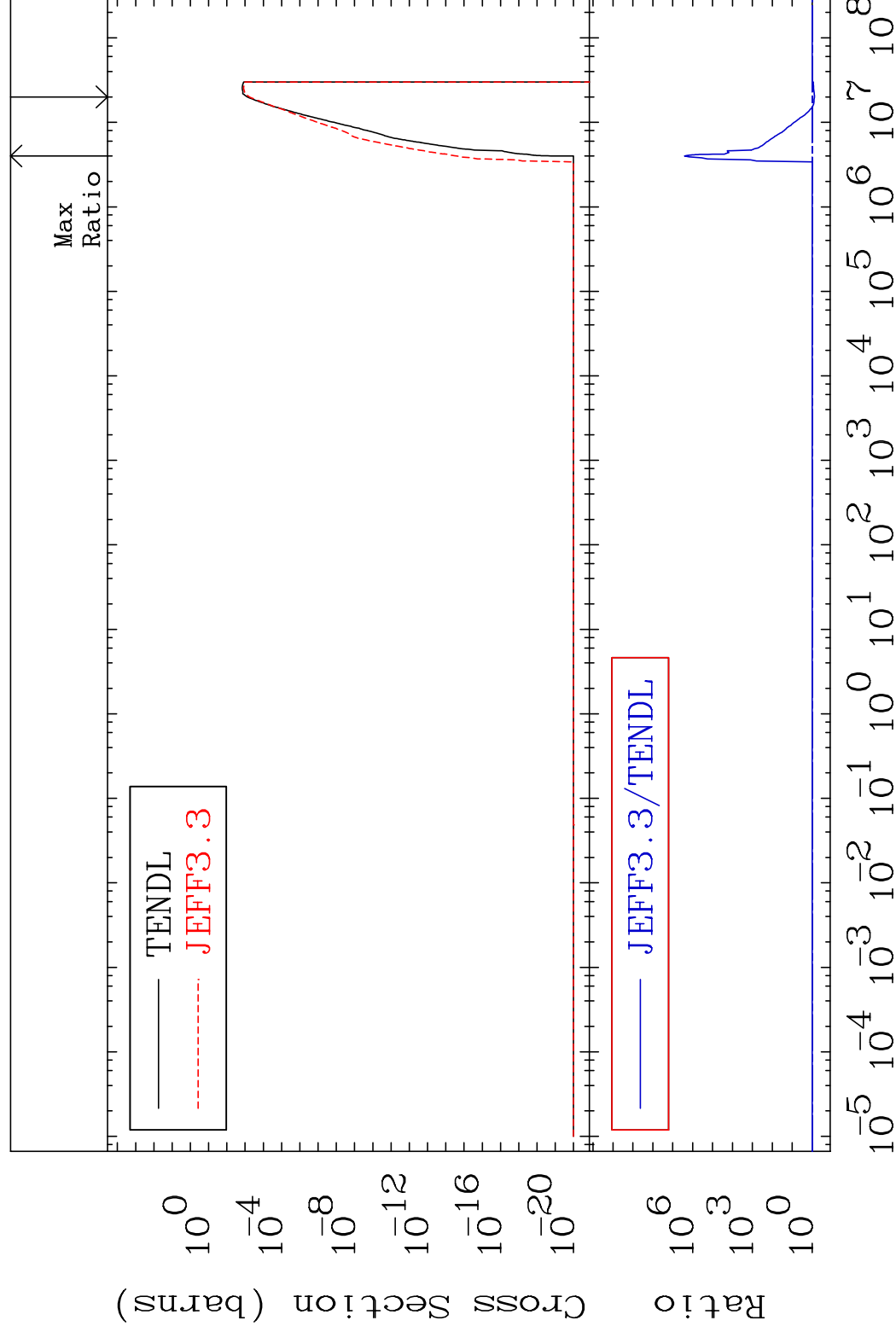
70-Yb-173

MAT 7040

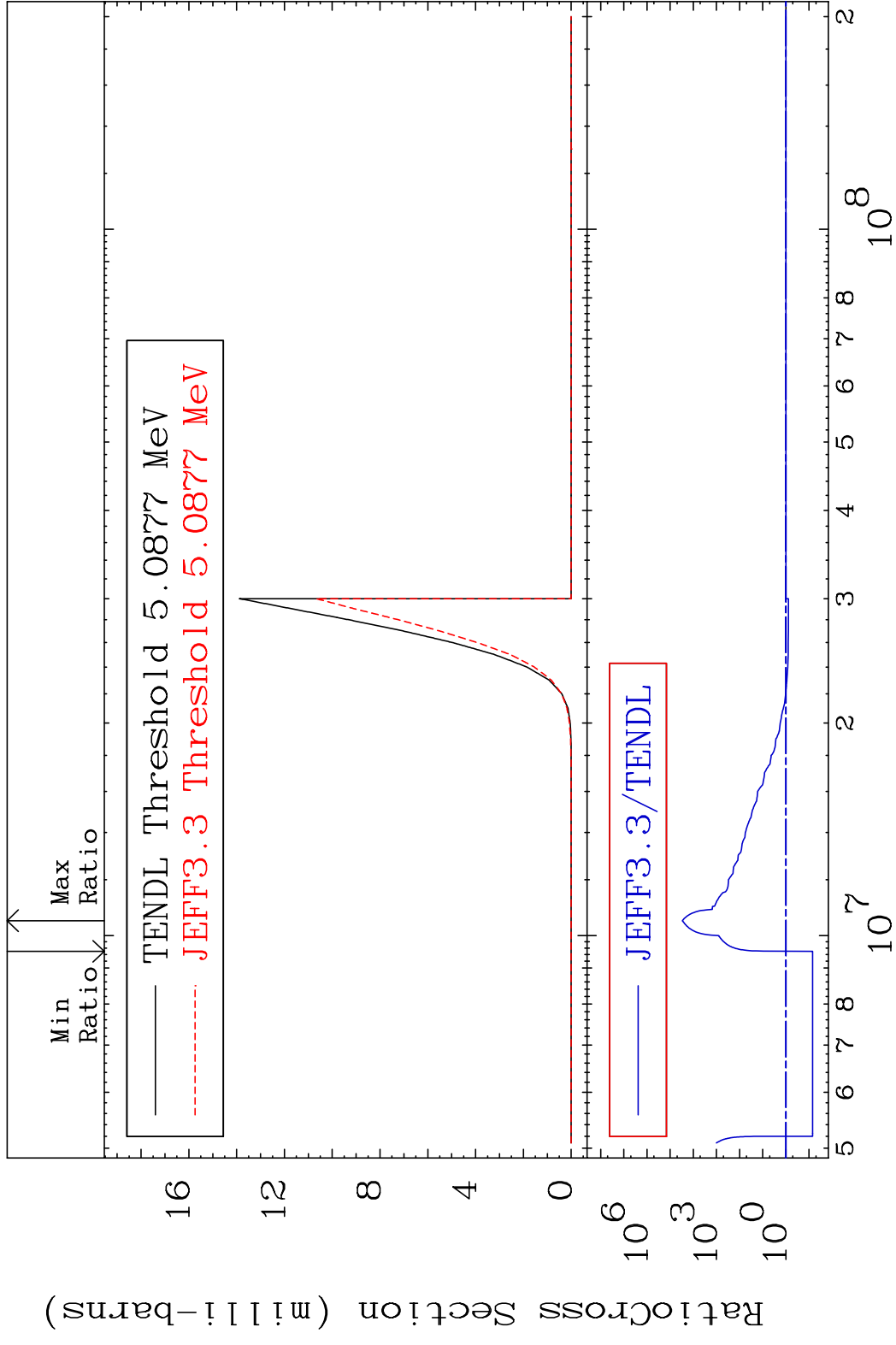
(n, n') α

70-Yb-173

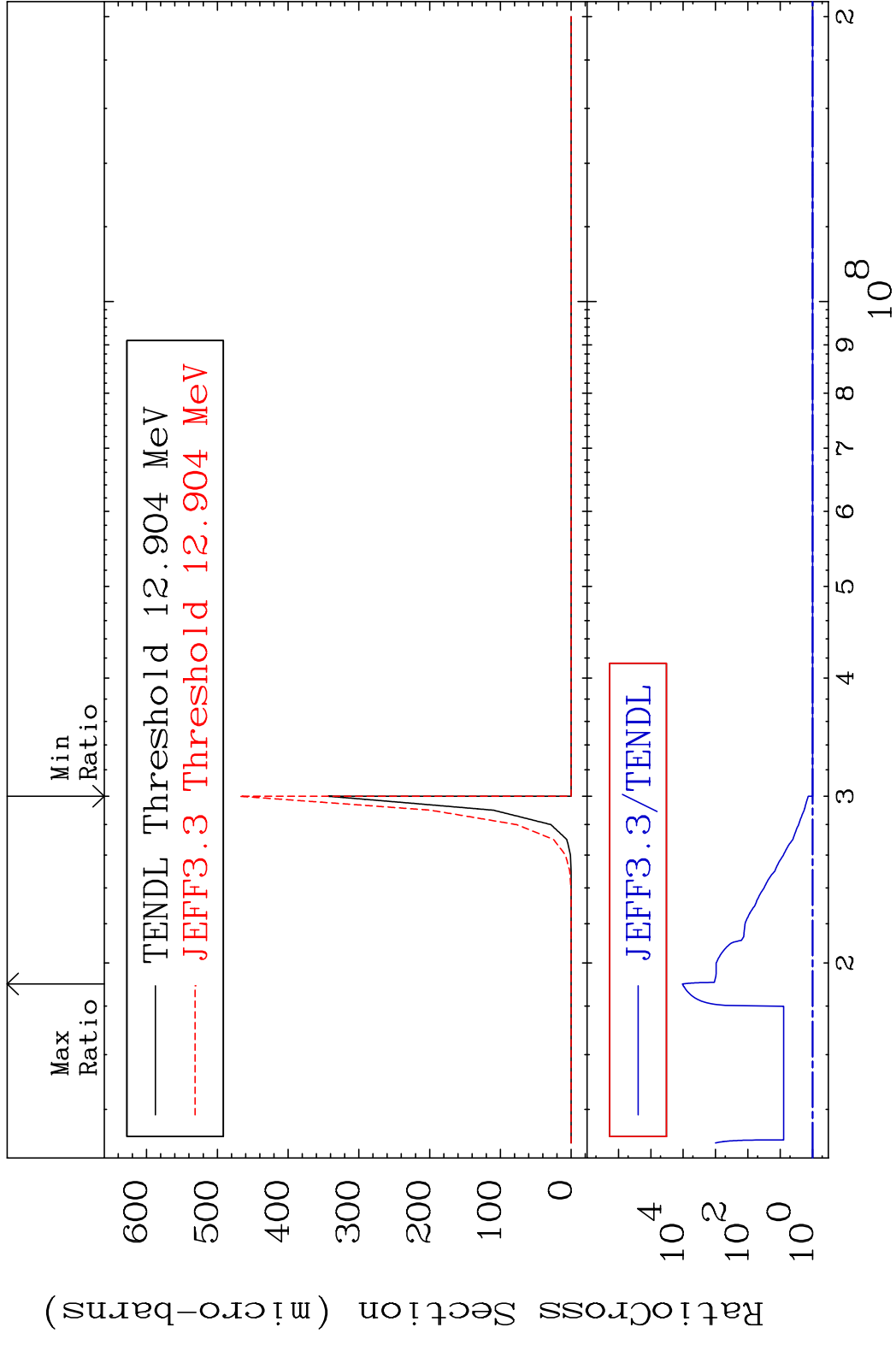
Cross Section -23.70 To 9999. %



MAT 7040 (n,2n) α 70-Yb-173
 Cross Section -92.98 To 9999. %

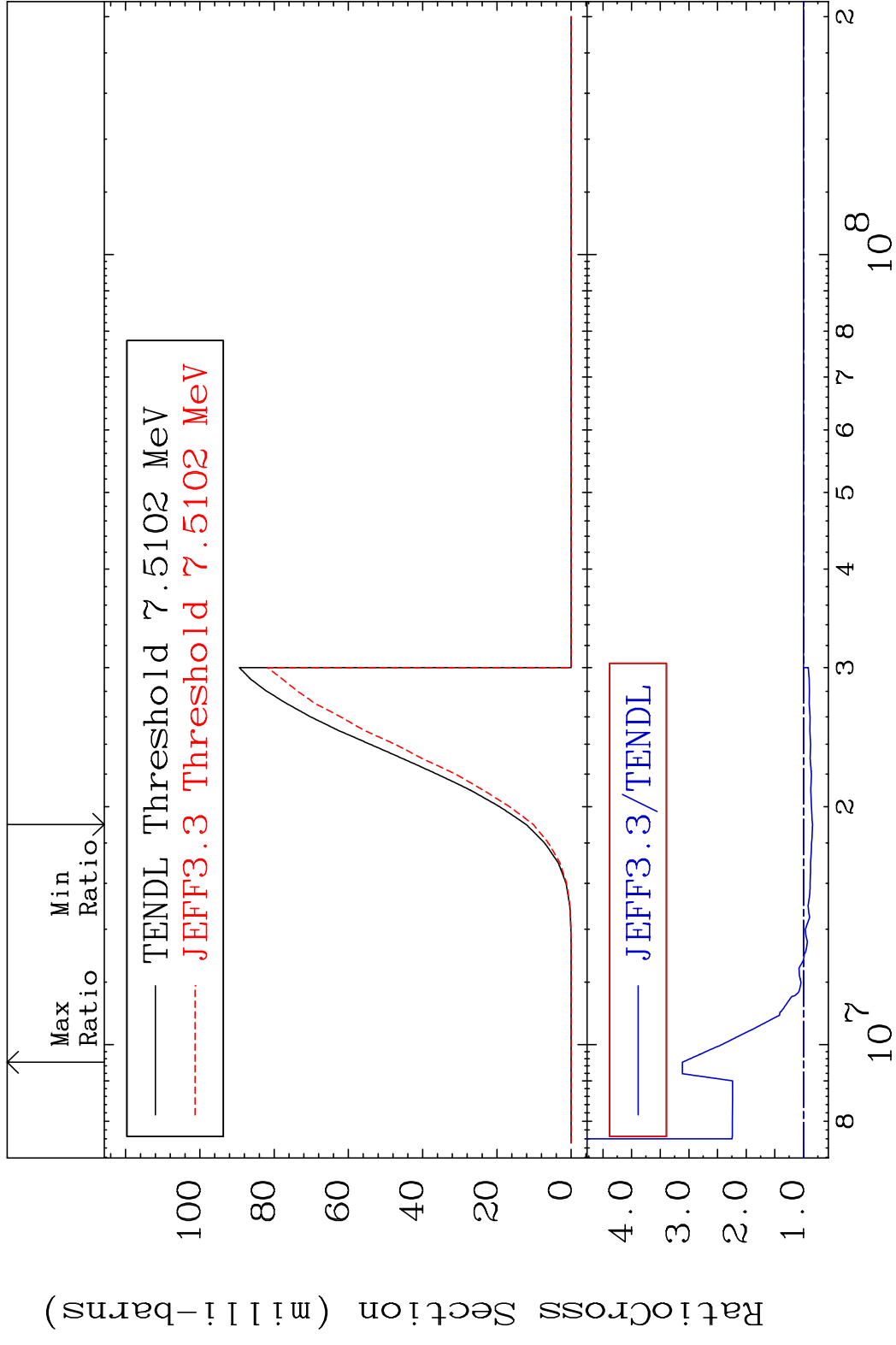


MAT 7040 (n,3n) α 70-Yb-173
 Cross Section 0.000 To 9999. %



10 Incident Energy (eV) 70-Yb-173

MAT 7040 (n, n') p 70-Yb-173
 Cross Section -15.85 To 211.4 %



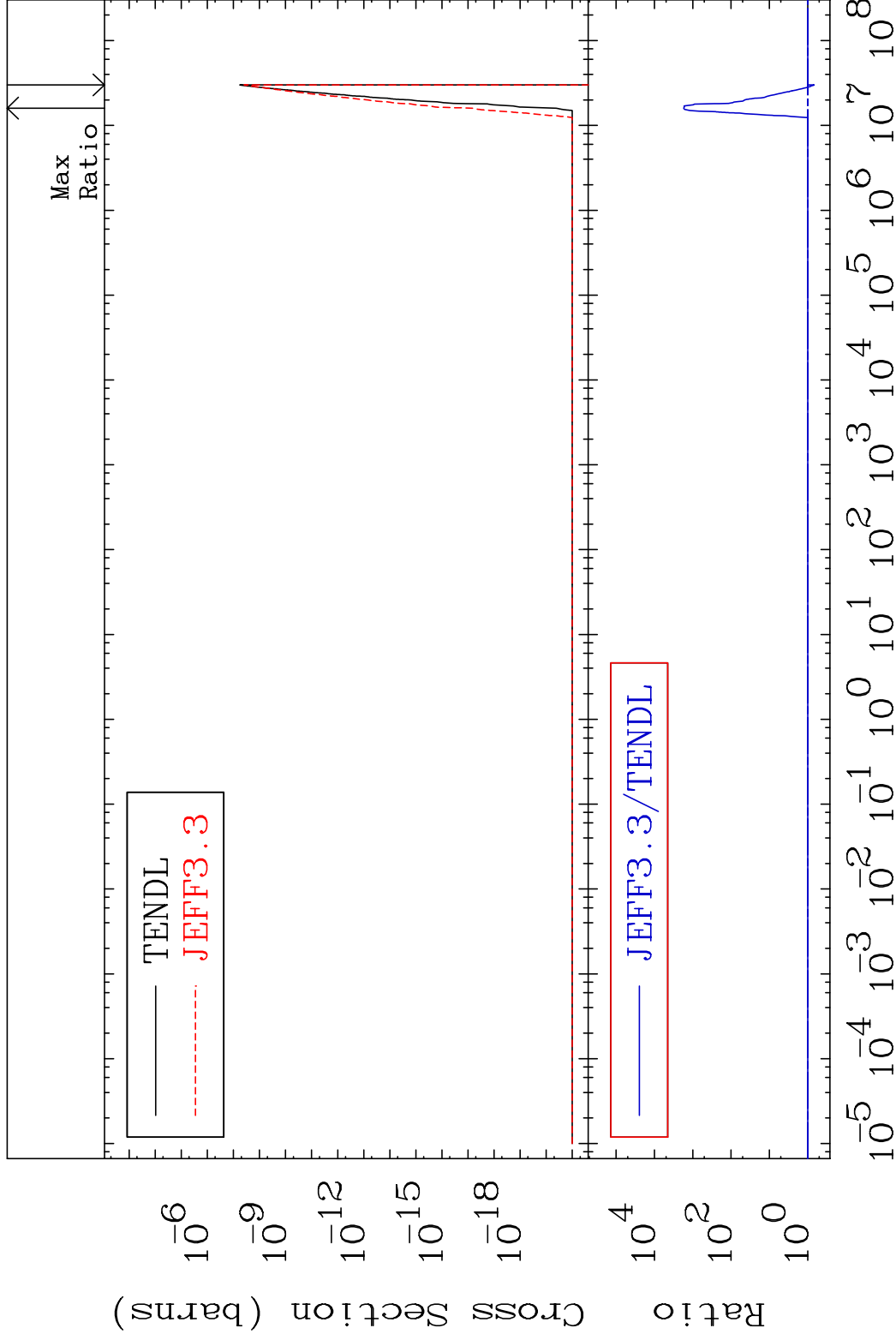
MAT 7040

(n, n') 2α

70-Yb-173

Cross Section

-32.07 To 9999. %

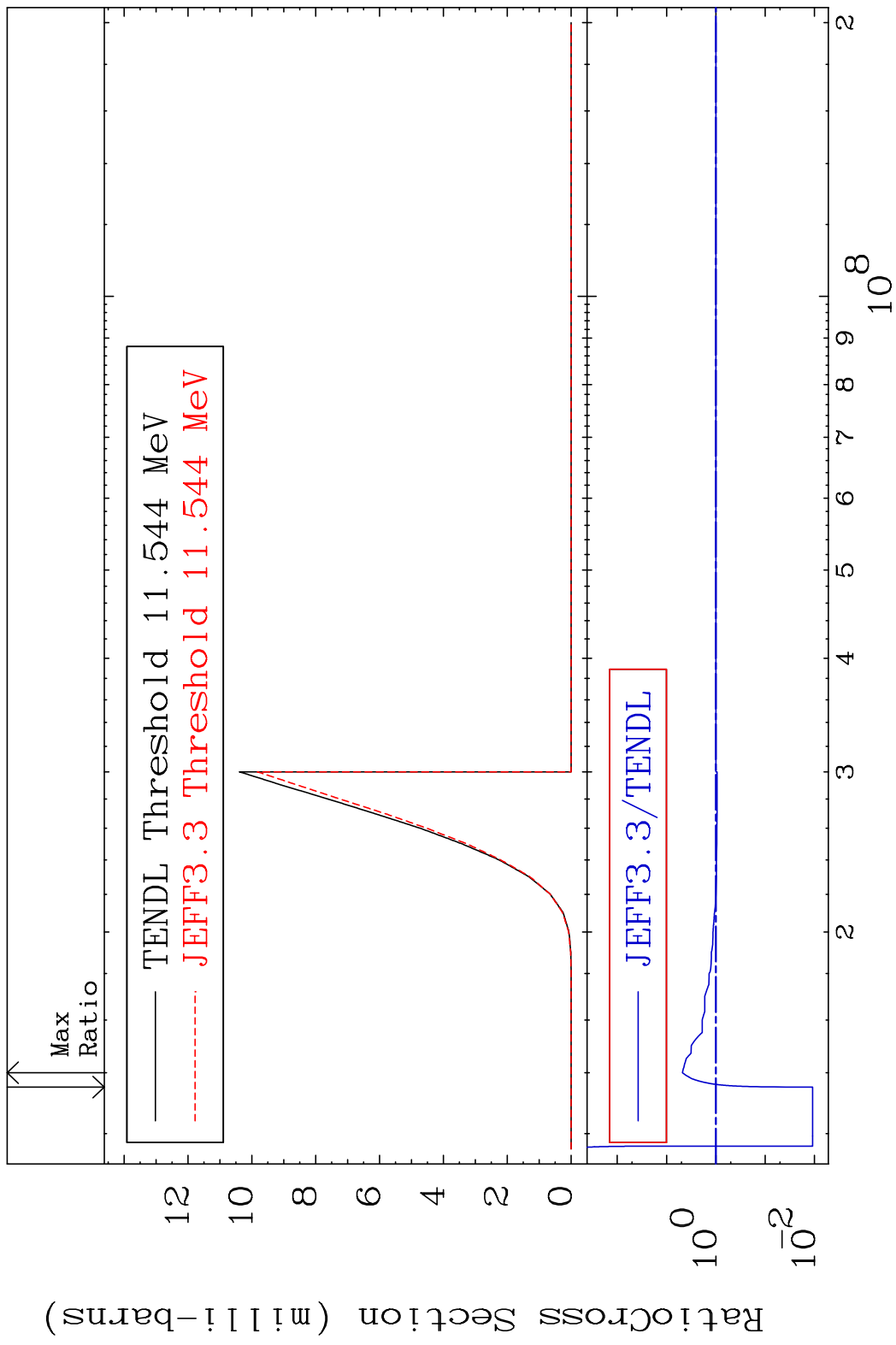


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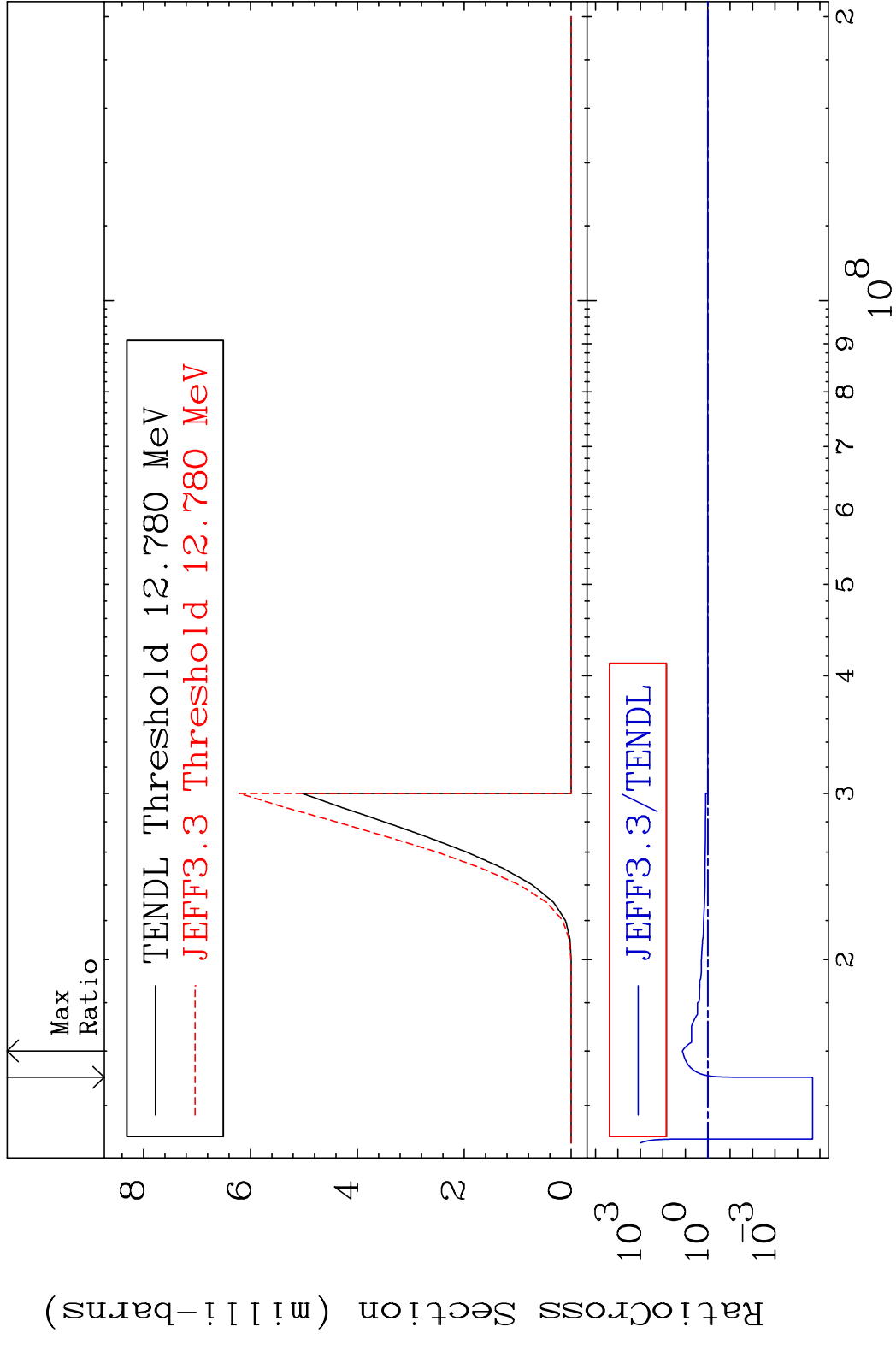
Incident Energy (eV)

70-Yb-173

MAT 7040 (n, n') d 70-Yb-173
 Cross Section -98.90 To 378.1 %



MAT 7040 (n, n') t 70-Yb-173
 Cross Section -100.0 To 1249. %

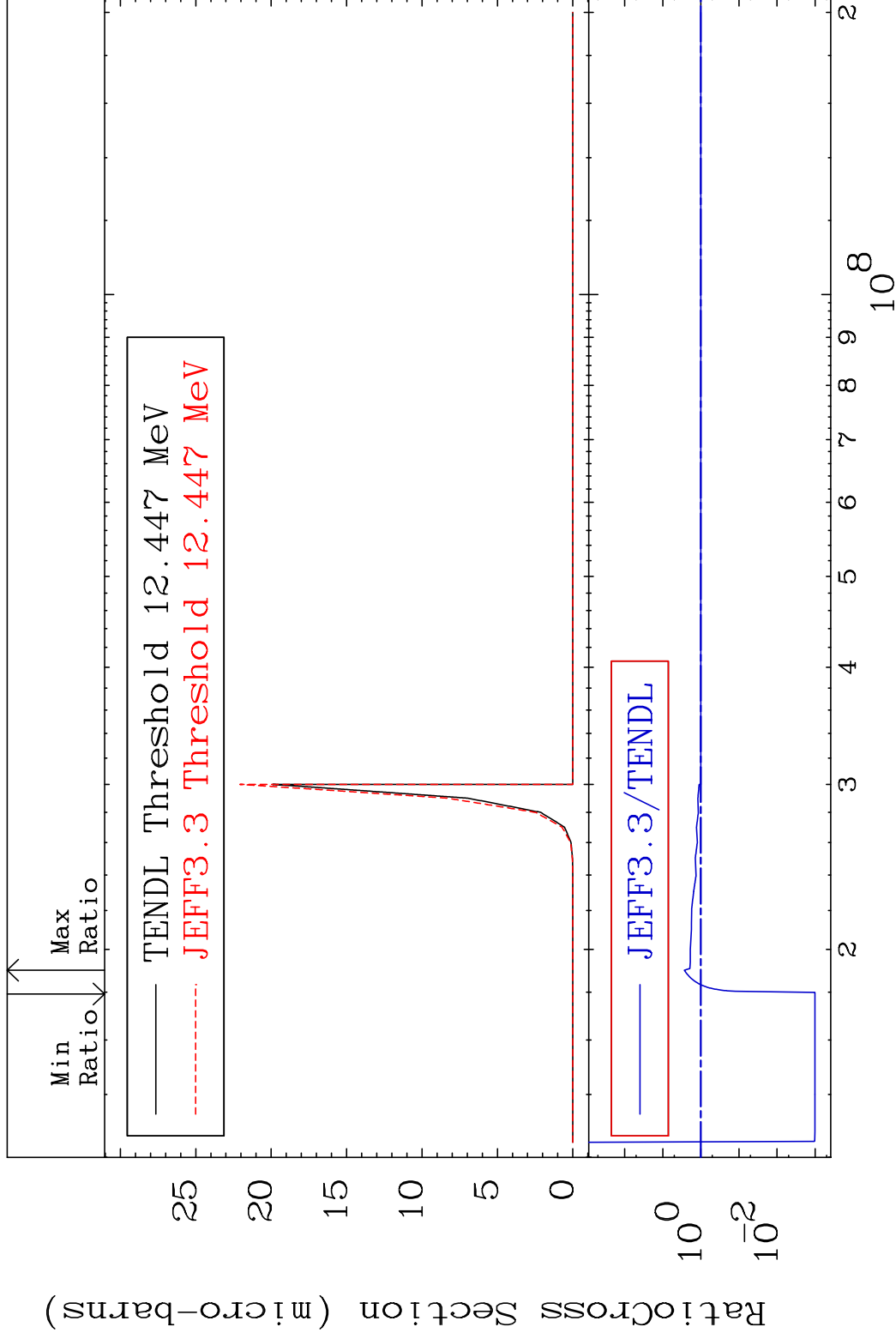


MAT 7040

(n,n') He-3

70-Yb-173

Cross Section -99.90 To 171.5 %



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Incident Energy (eV)

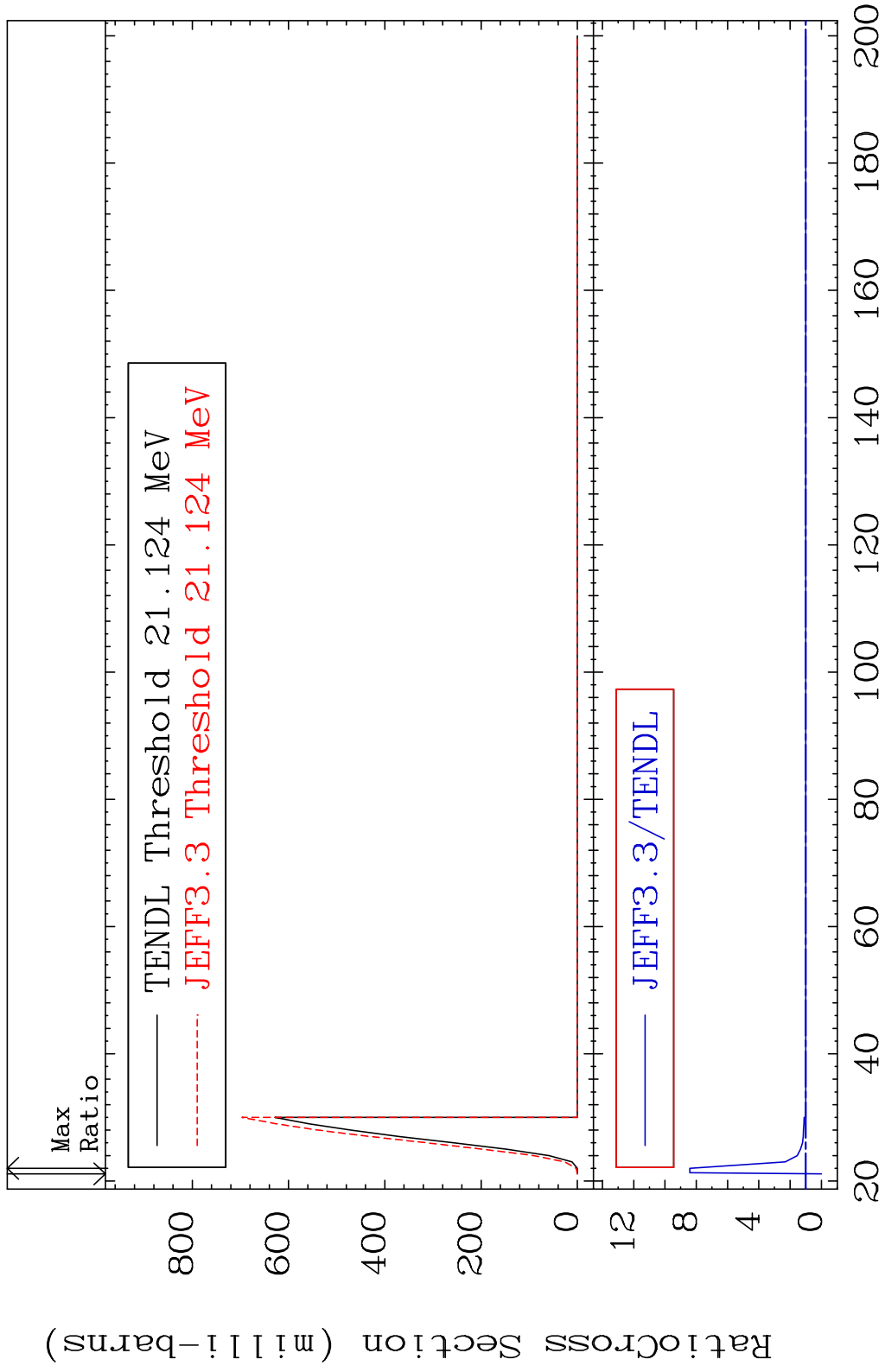
70-Yb-173

MAT 7040

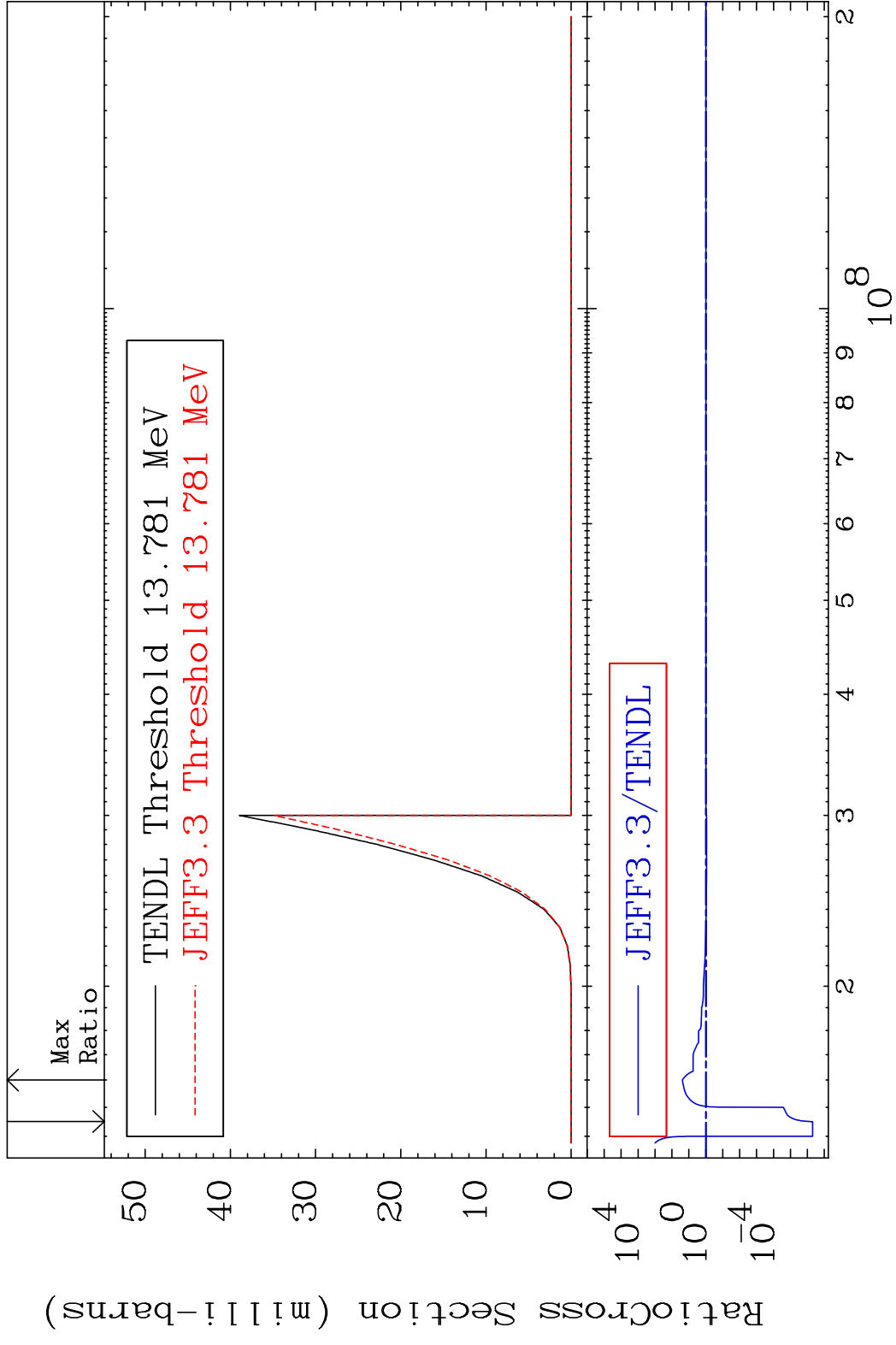
(n,4n)

70-Yb-173

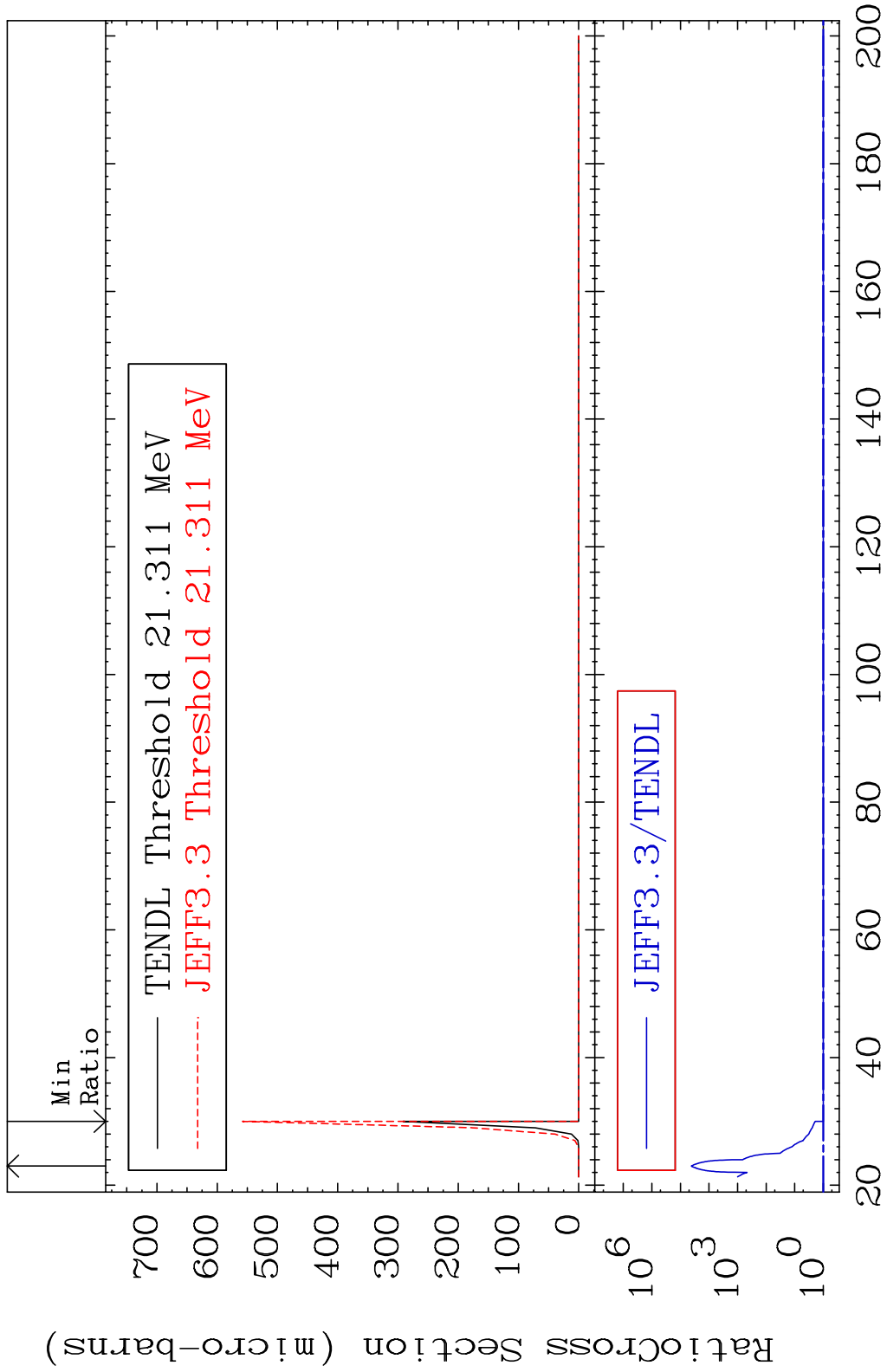
Cross Section -100.0 To 741.6 %



MAT 7040 (n,2n) p 70-Yb-173
 Cross Section -100.0 To 2323. %



MAT 7040 (n,3n) p 70-Yb-173
 Cross Section 0.000 To 9999. %



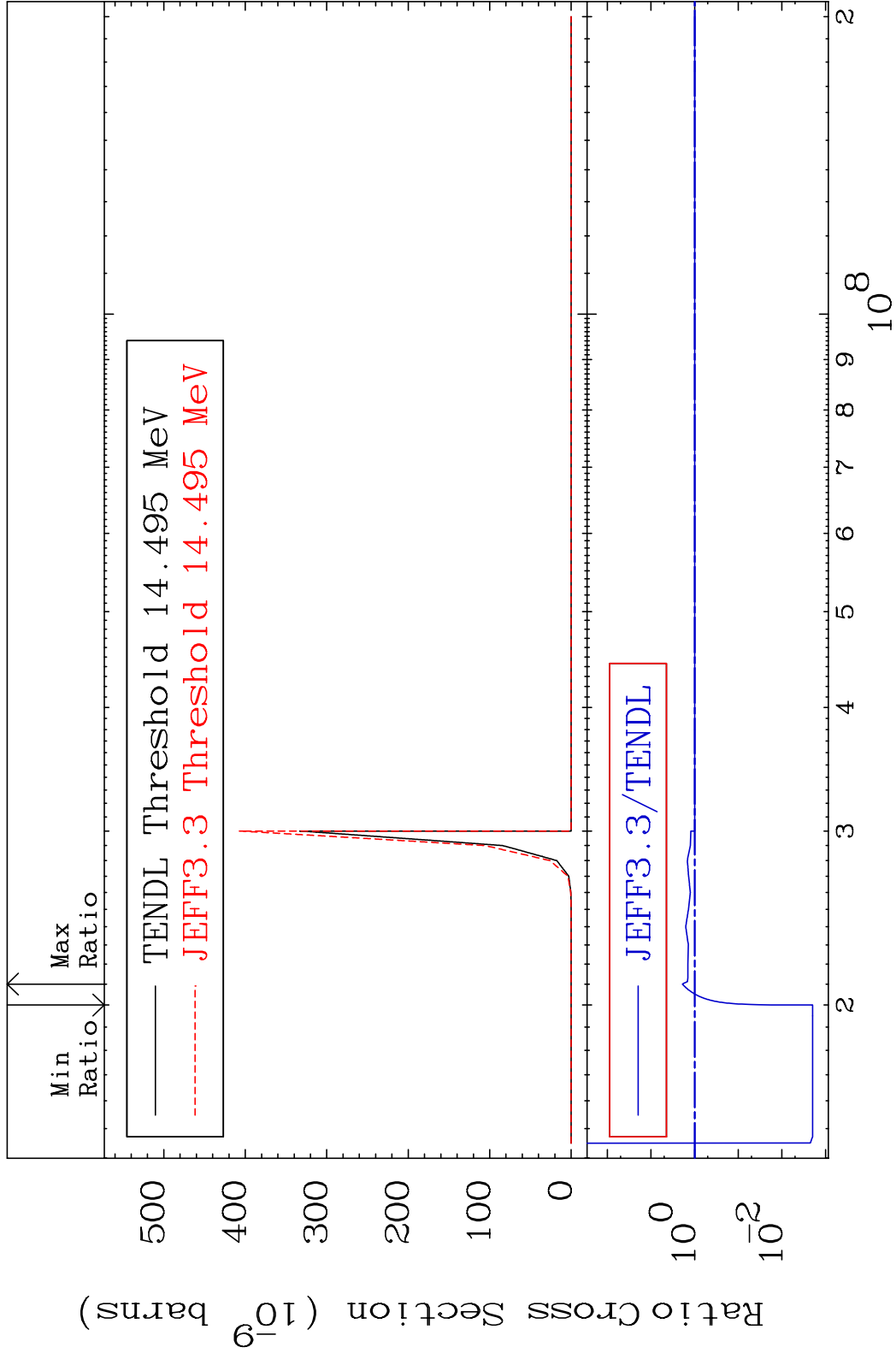
MAT 7040

(n,2n) p

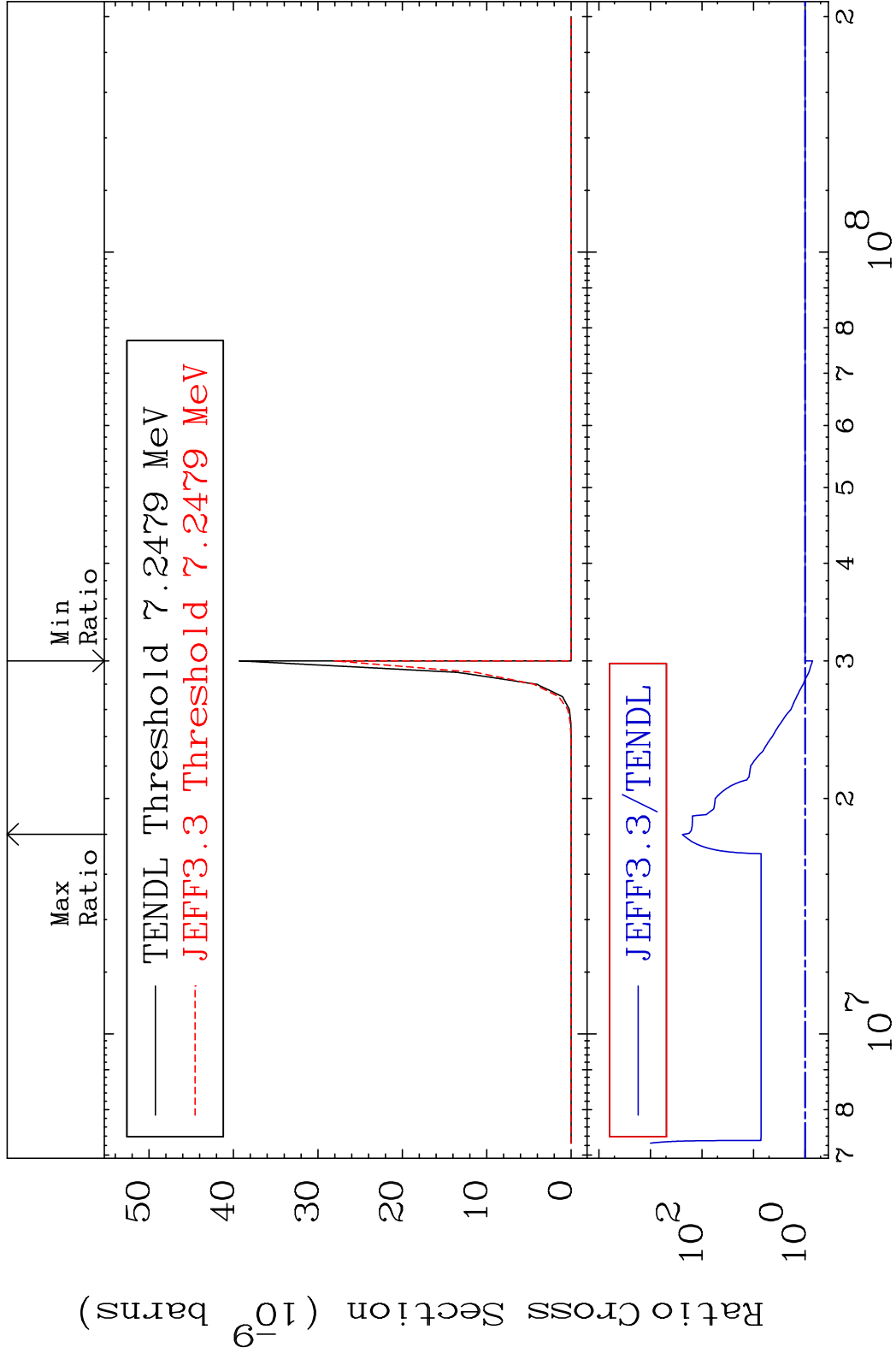
70-Yb-173

Cross Section

-99.80 To 91.18 %

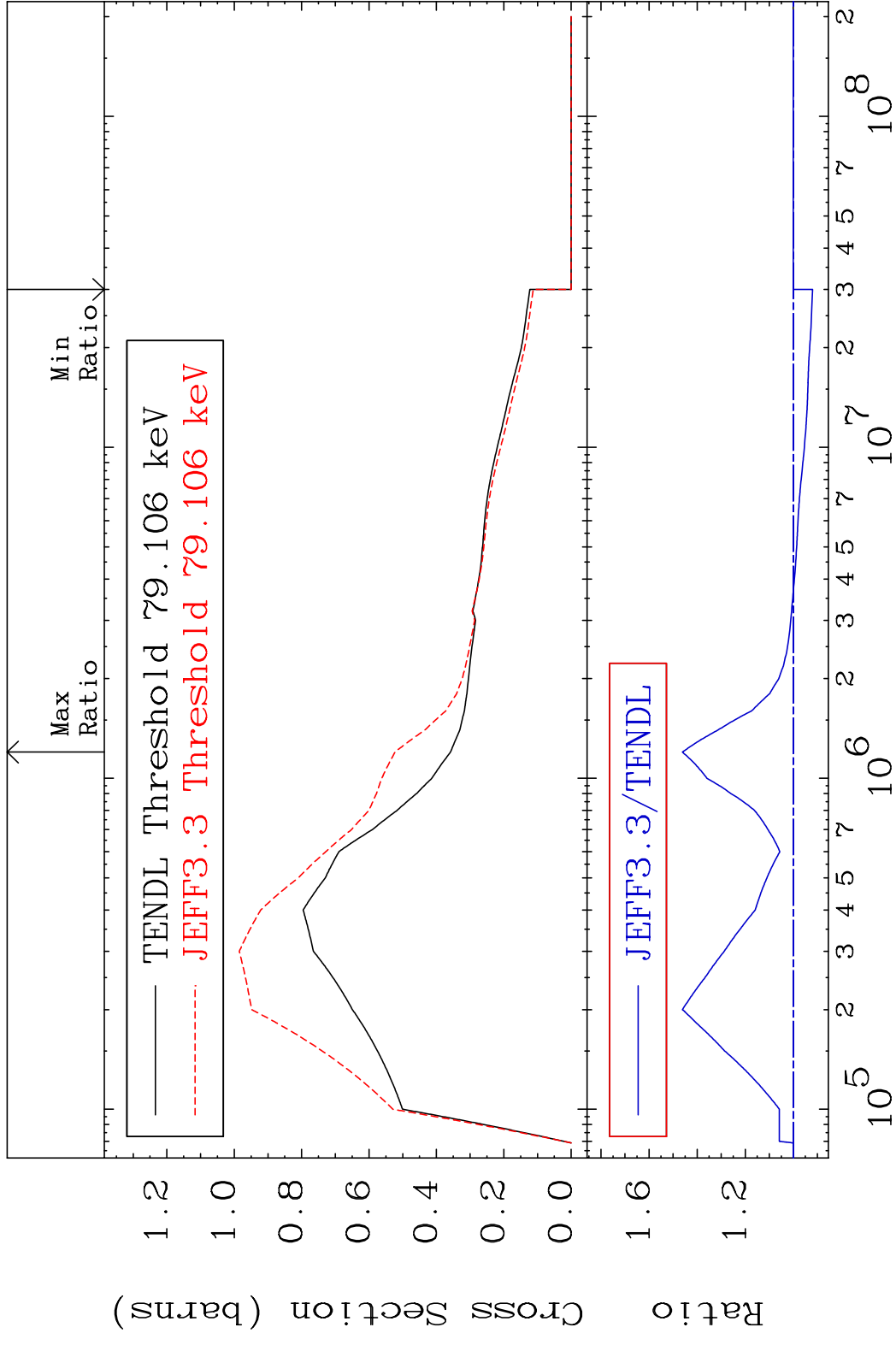


MAT 7040 (n, n') p α 70-Yb-173
 Cross Section -28.64 To 9999. %

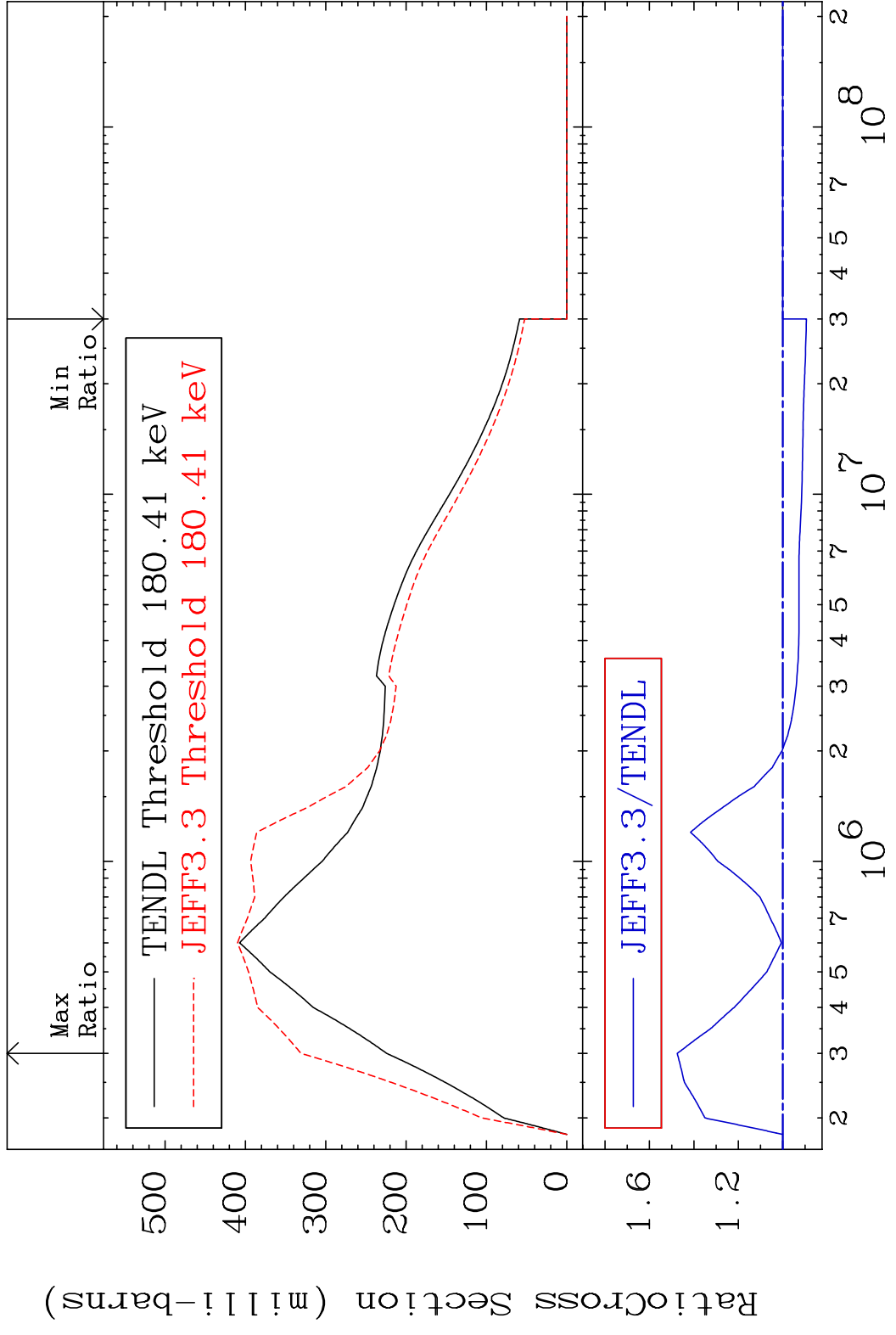


20 Incident Energy (eV) 70-Yb-173

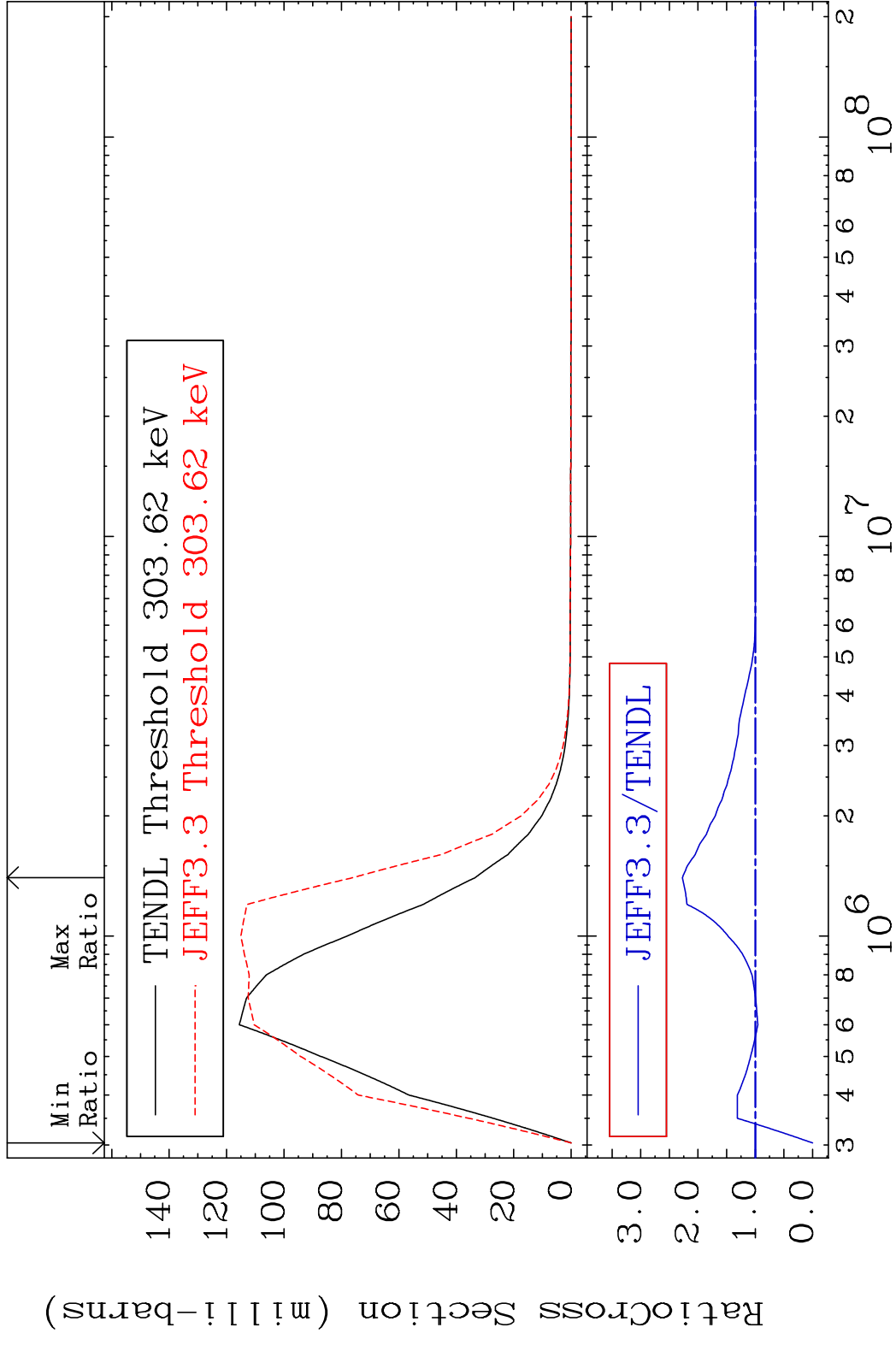
MAT 7040 MT= 51 (n, n') Level 70-Yb-173
 Cross Section -7.999 To 46.14 %



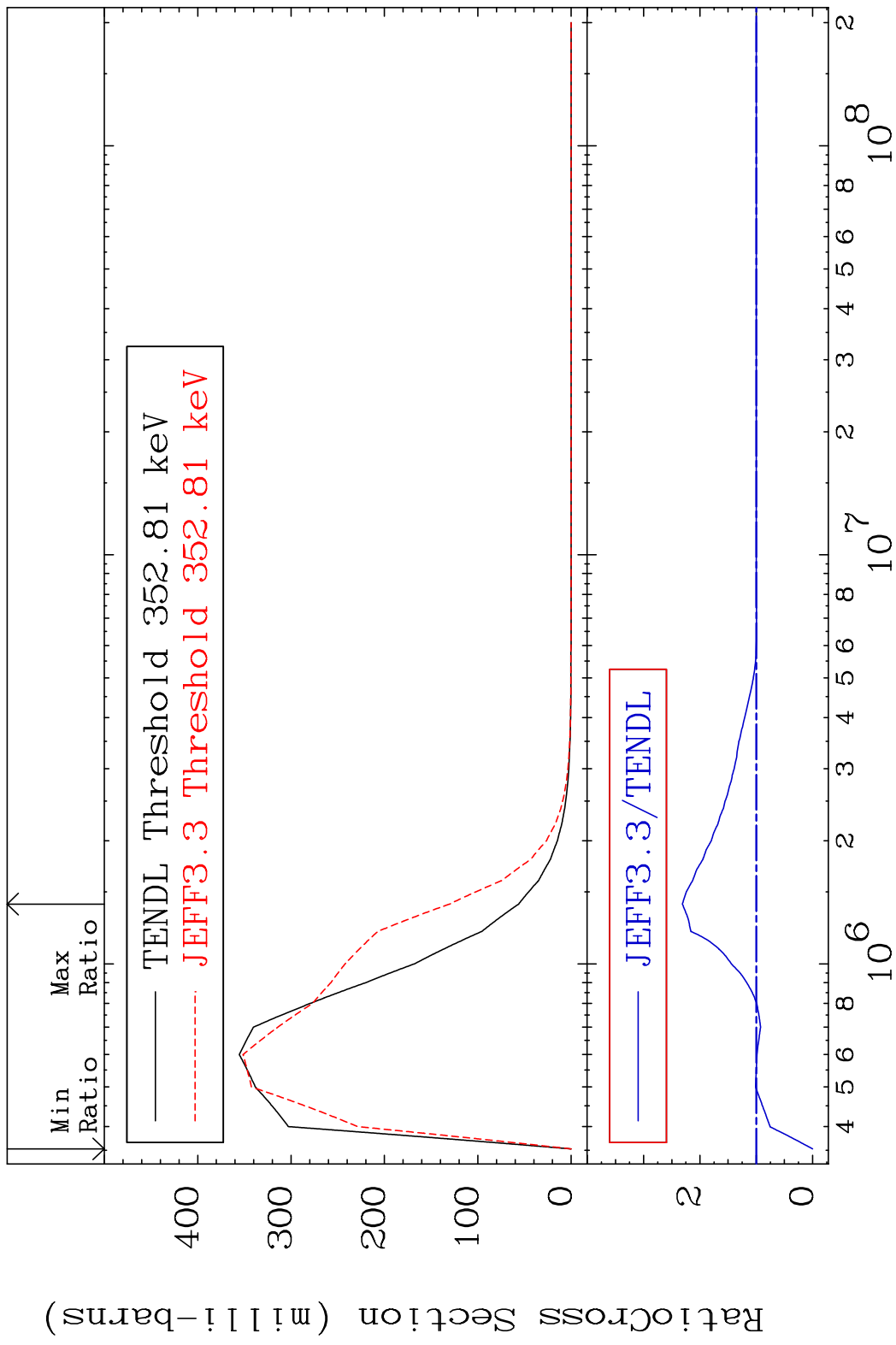
MAT 7040 MT= 52 (n, n') Level 70-Yb-173
 Cross Section -10.63 To 47.53 %



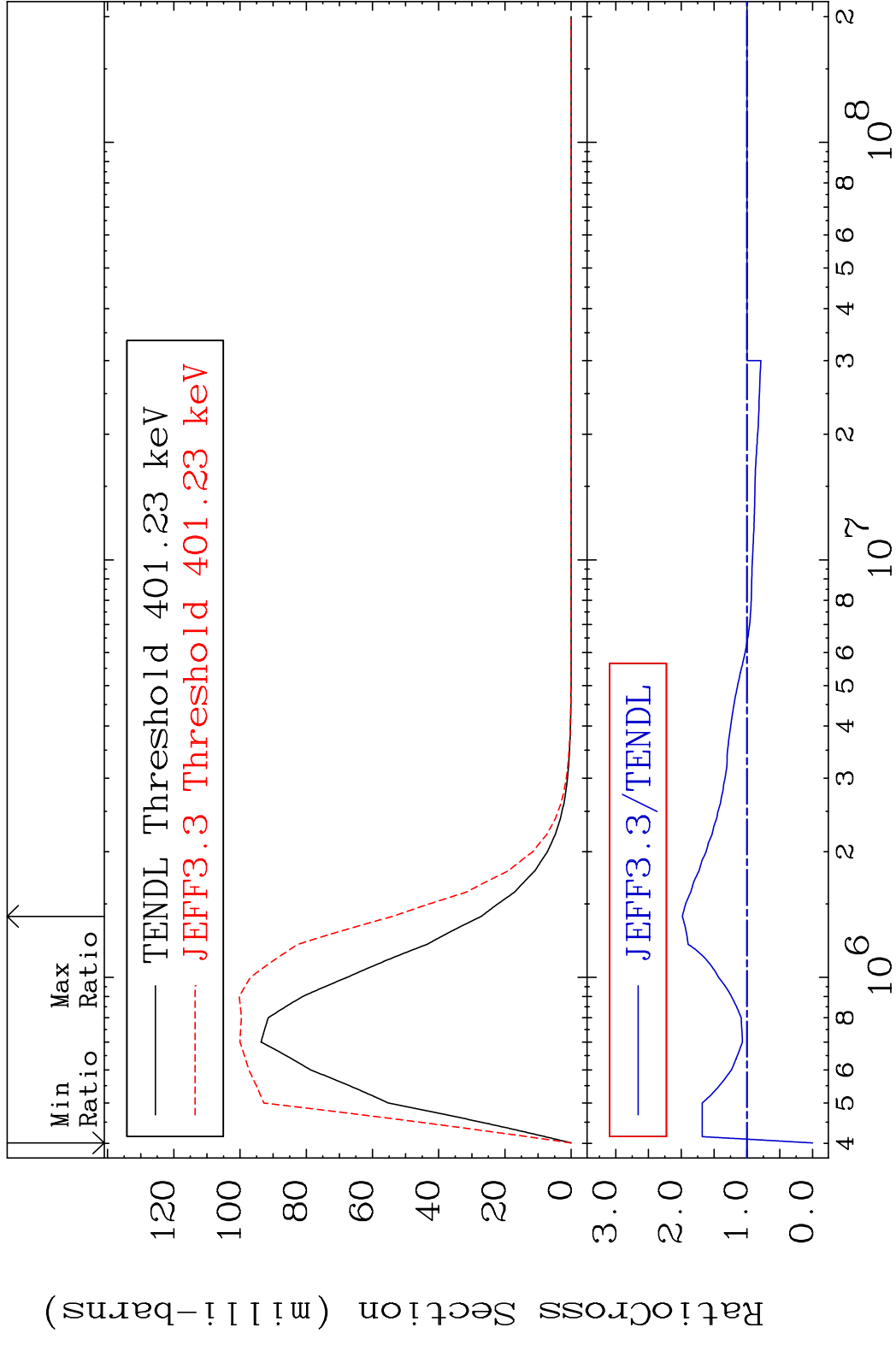
MAT 7040 MT= 53 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 127.3 %



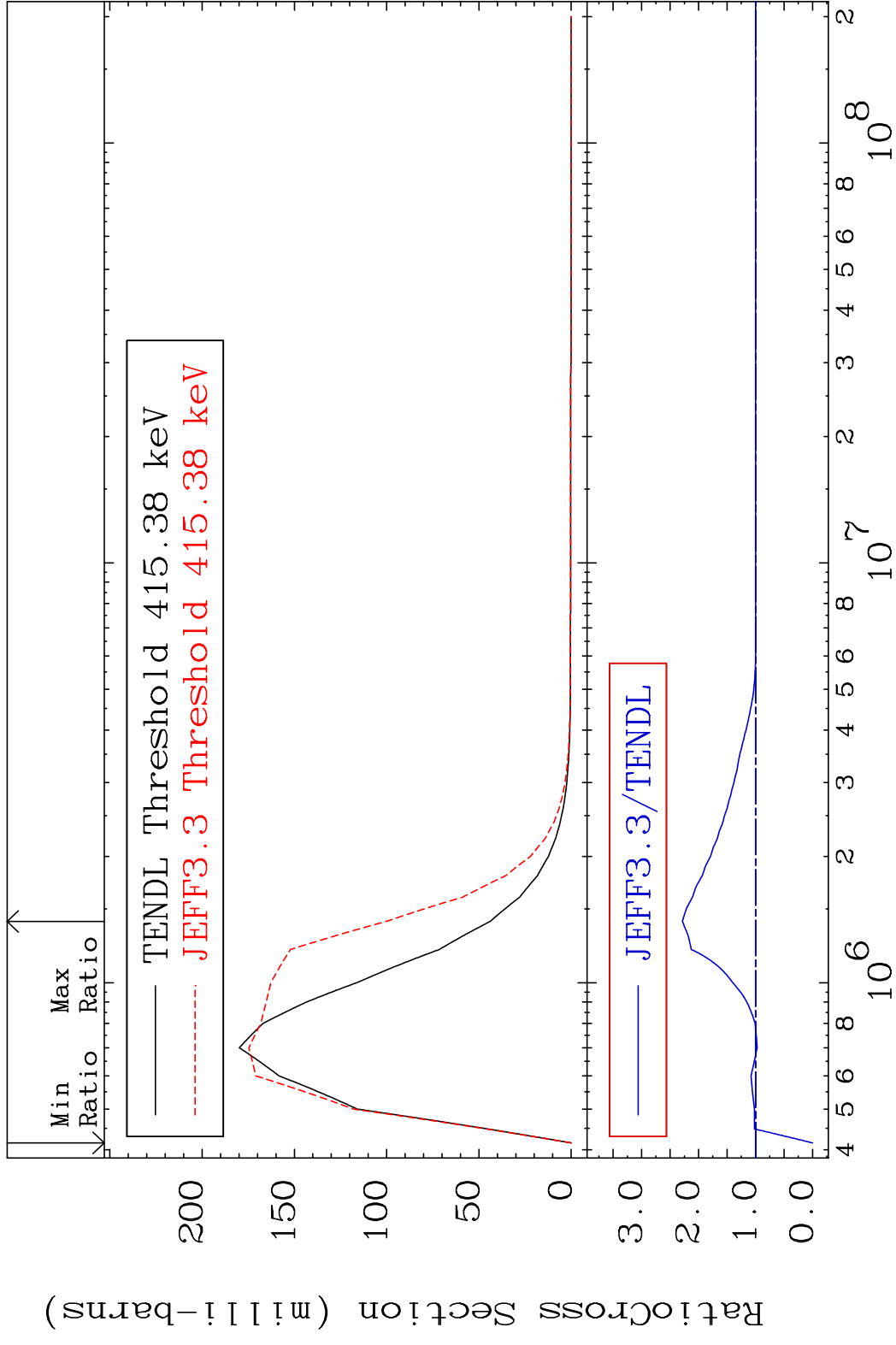
MAT 7040 MT= 54 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 131.2 %



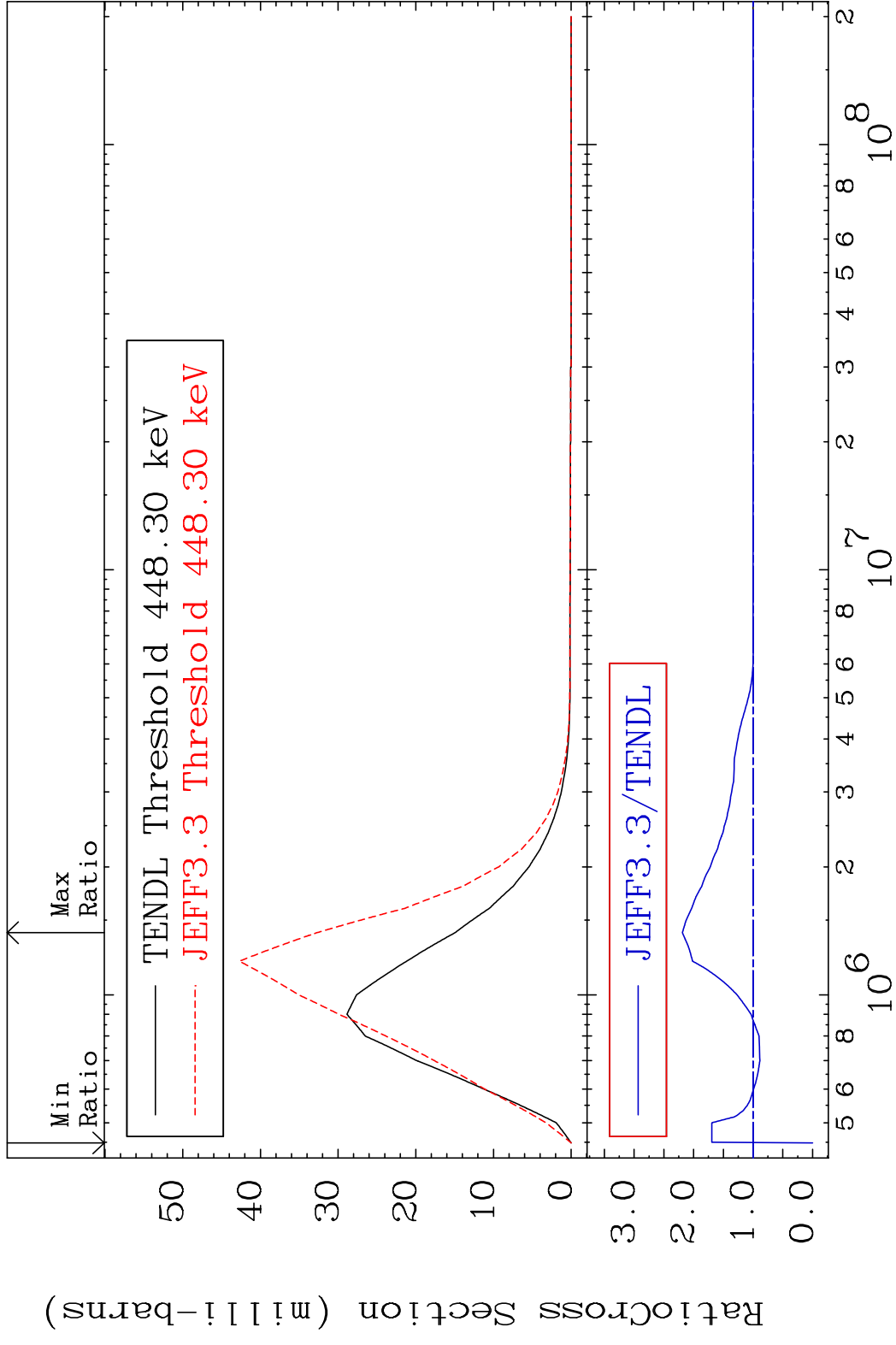
MAT 7040 MT= 55 (n,n') Level 70-Yb-173
 Cross Section -100.0 To 98.43 %



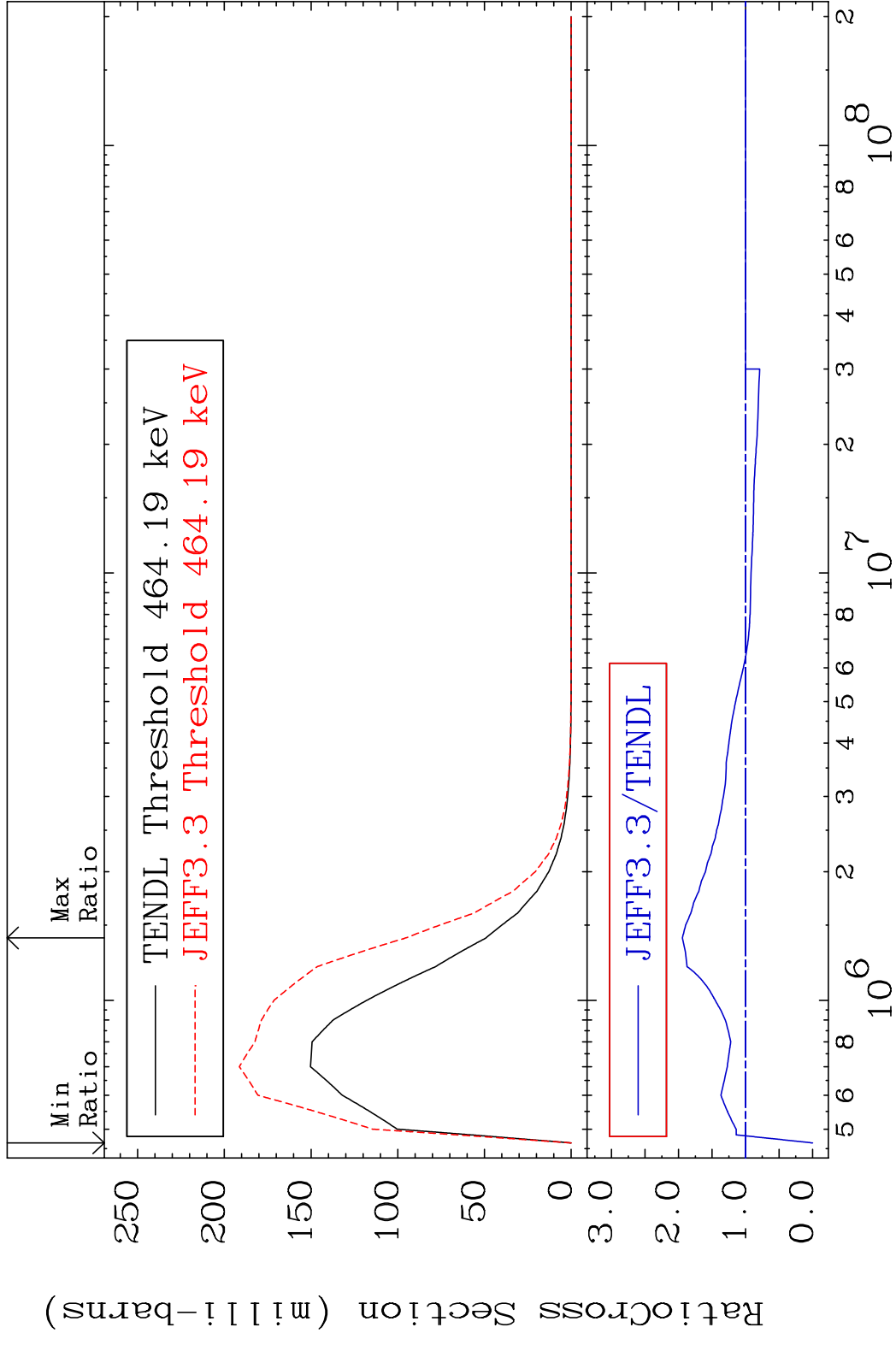
MAT 7040 MT= 56 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 128.5 %



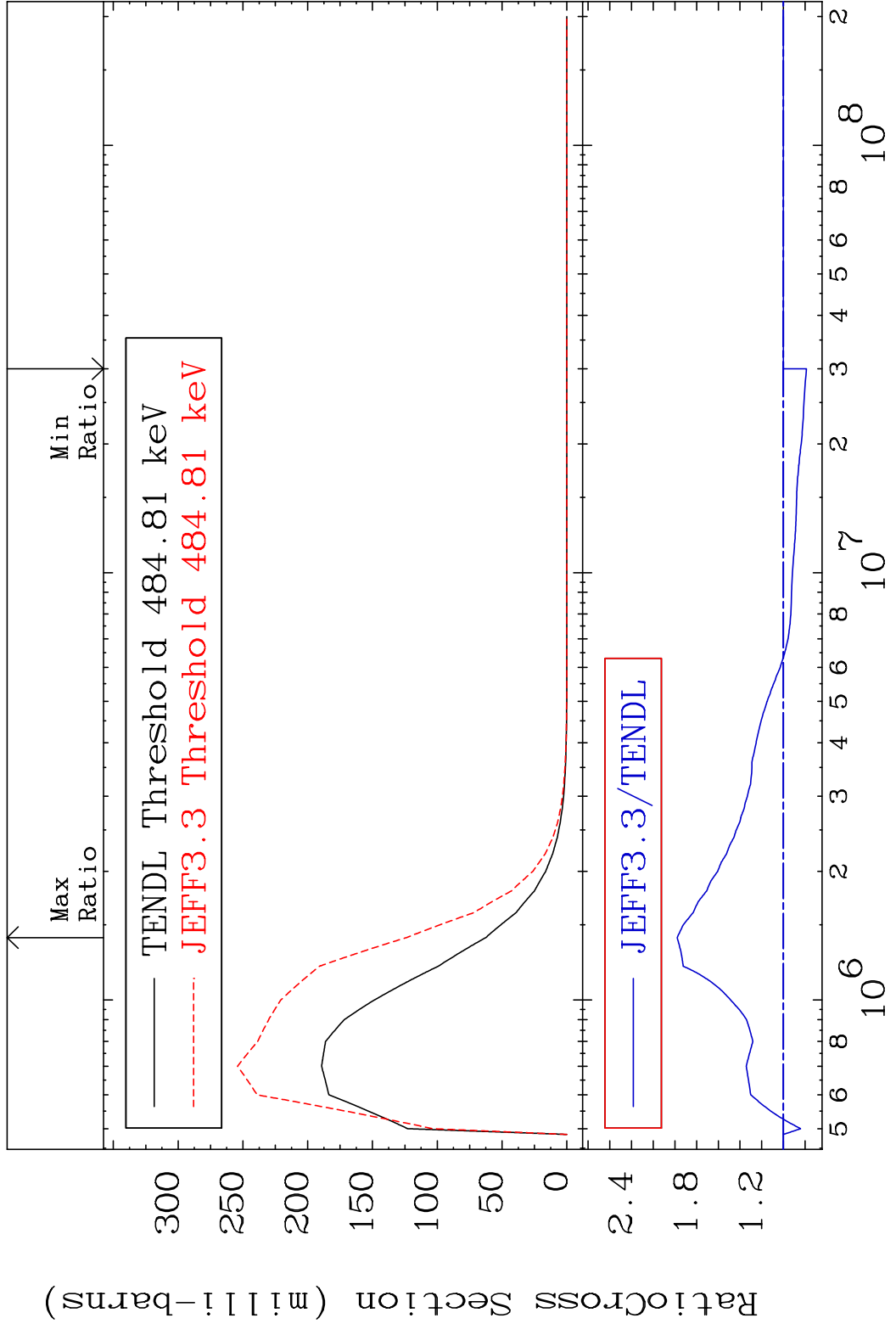
MAT 7040 MT= 57 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 118.9 %



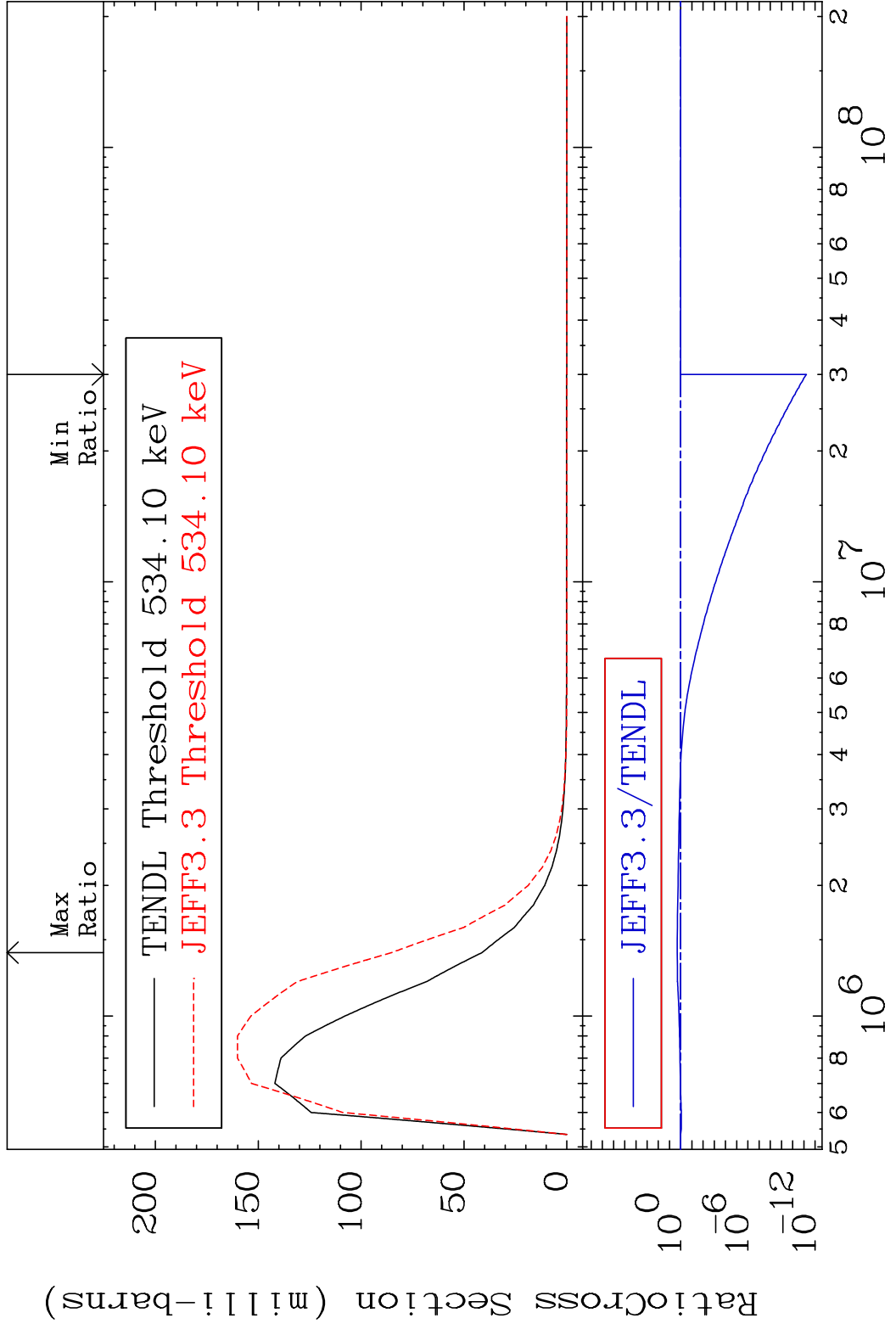
MAT 7040 MT= 58 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 94.33 %



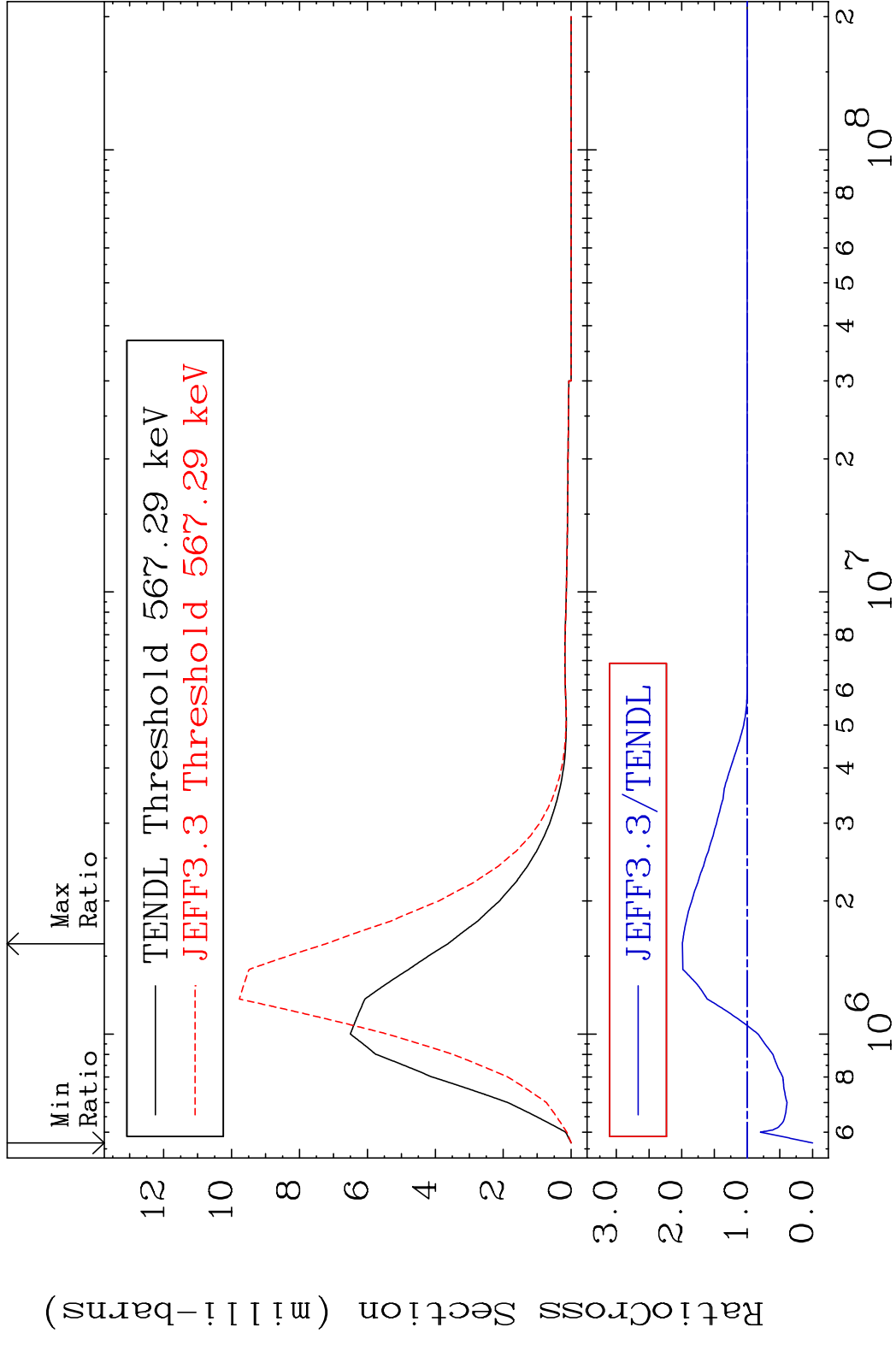
MAT 7040 MT= 59 (n, n') Level 70-Yb-173
 Cross Section -21.16 To 97.89 %



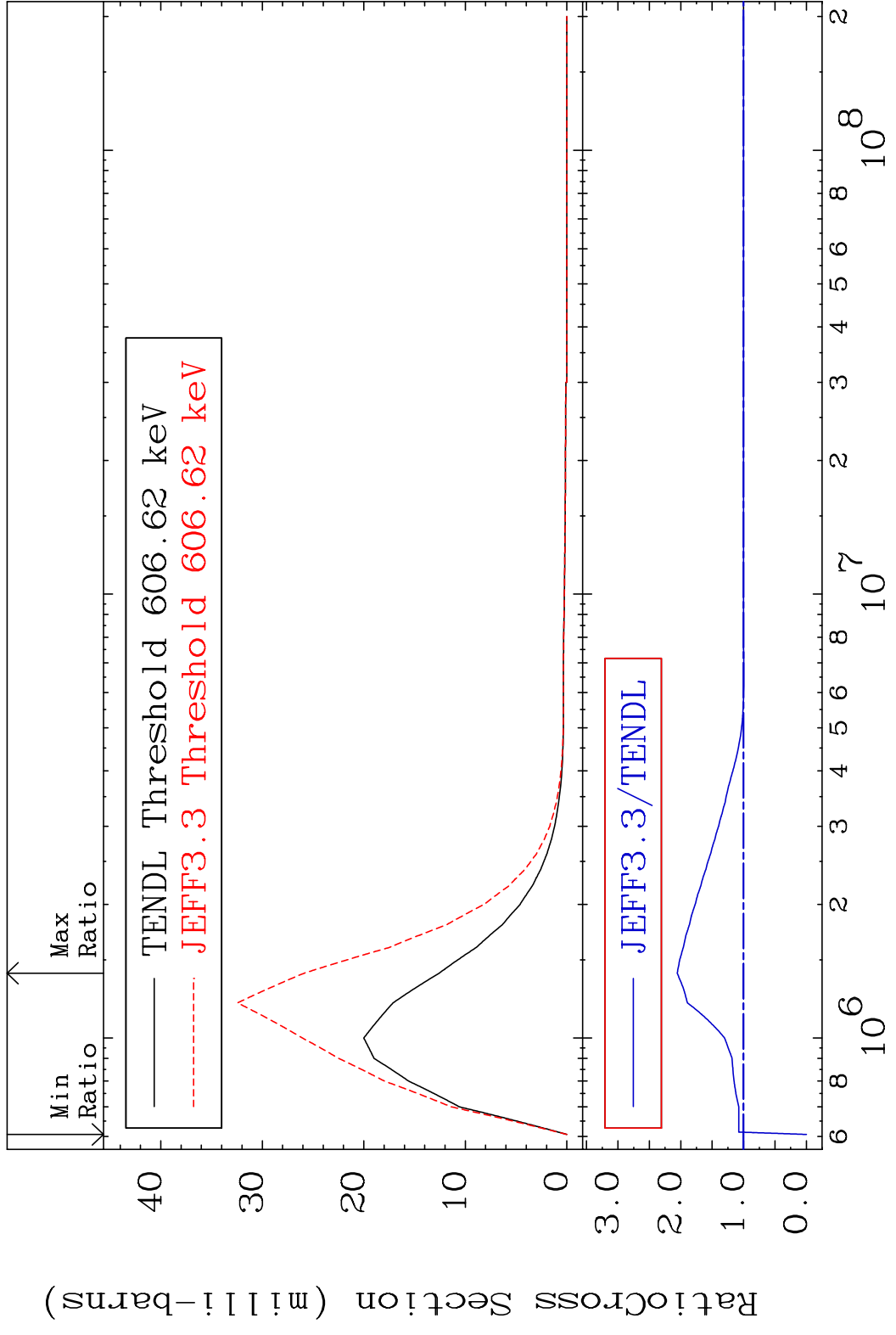
MAT 7040 MT= 60 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 106.6 %



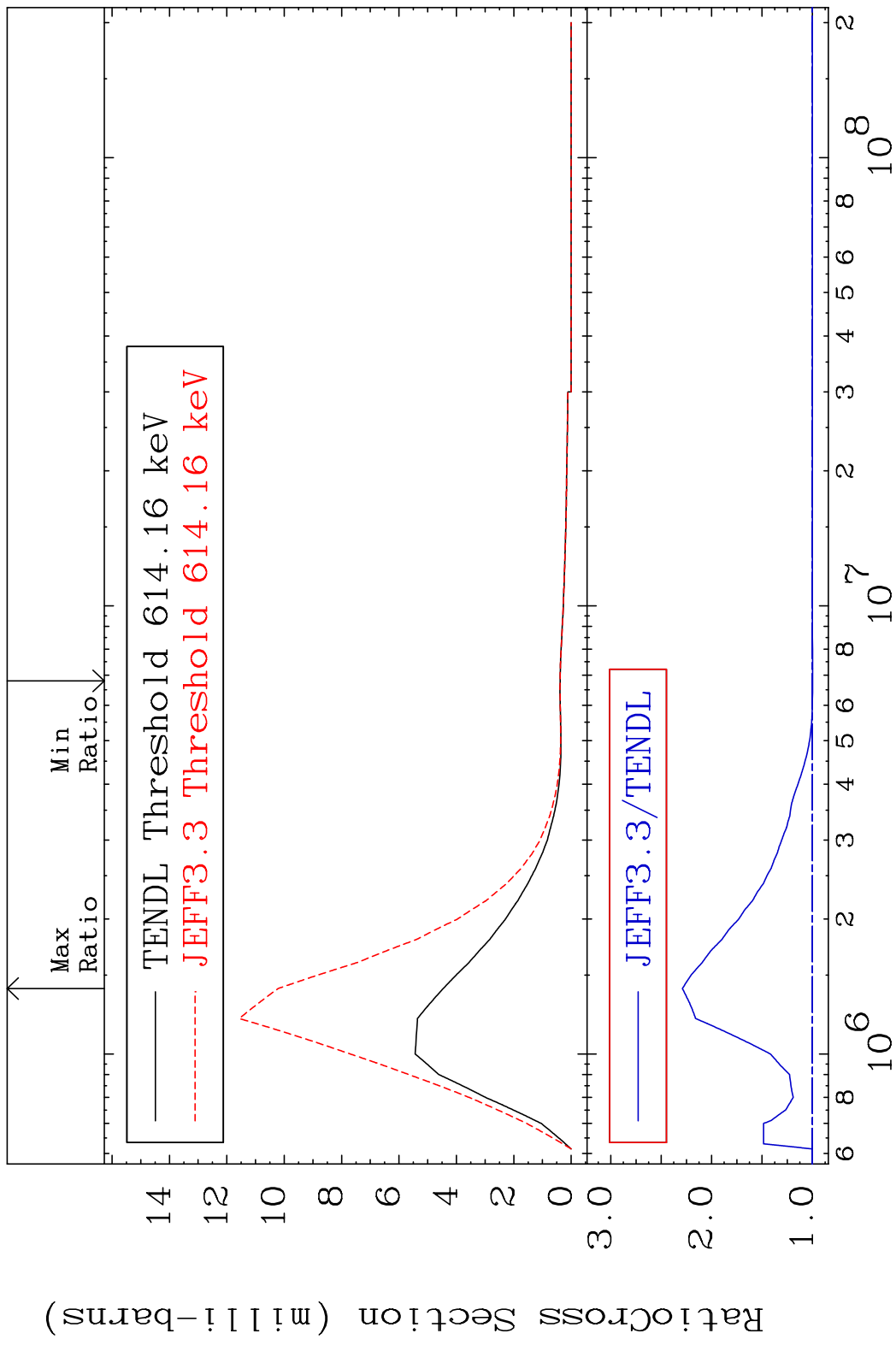
MAT 7040 MT= 61 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 99.00 %



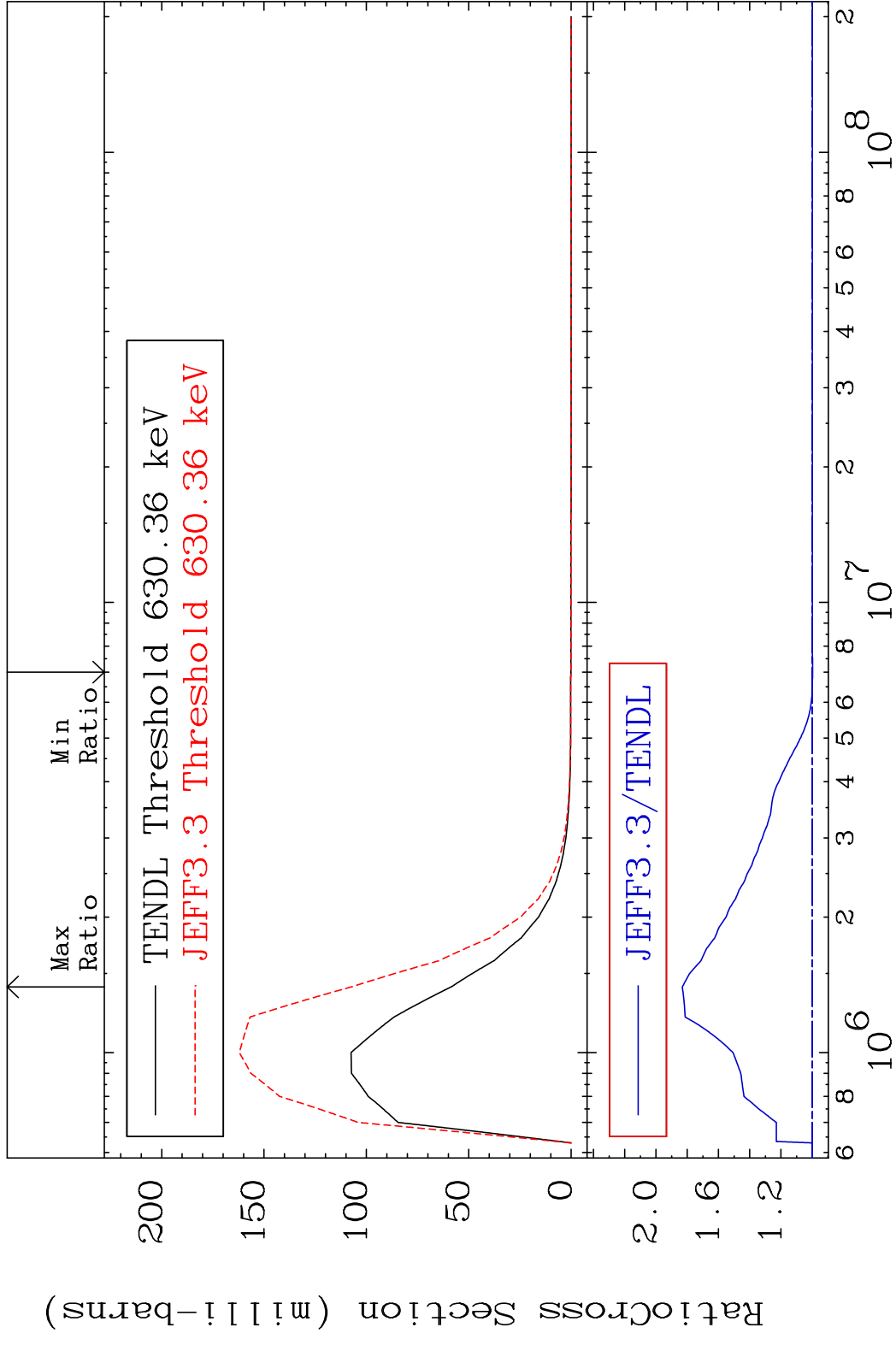
MAT 7040 MT= 62 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 105.7 %



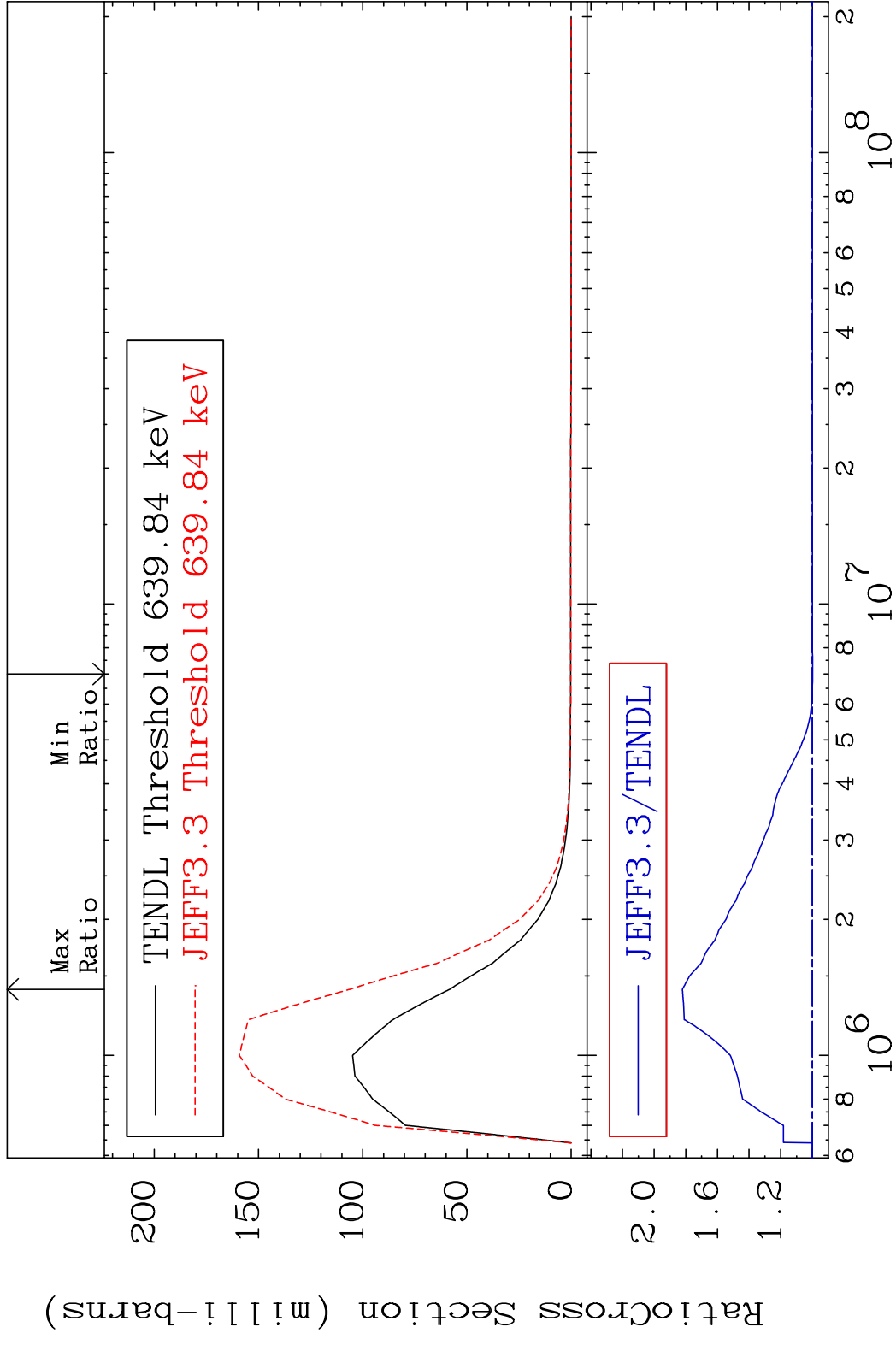
MAT 7040 MT= 63 (n, n') Level 70-Yb-173
 Cross Section -0.097 To 129.0 %



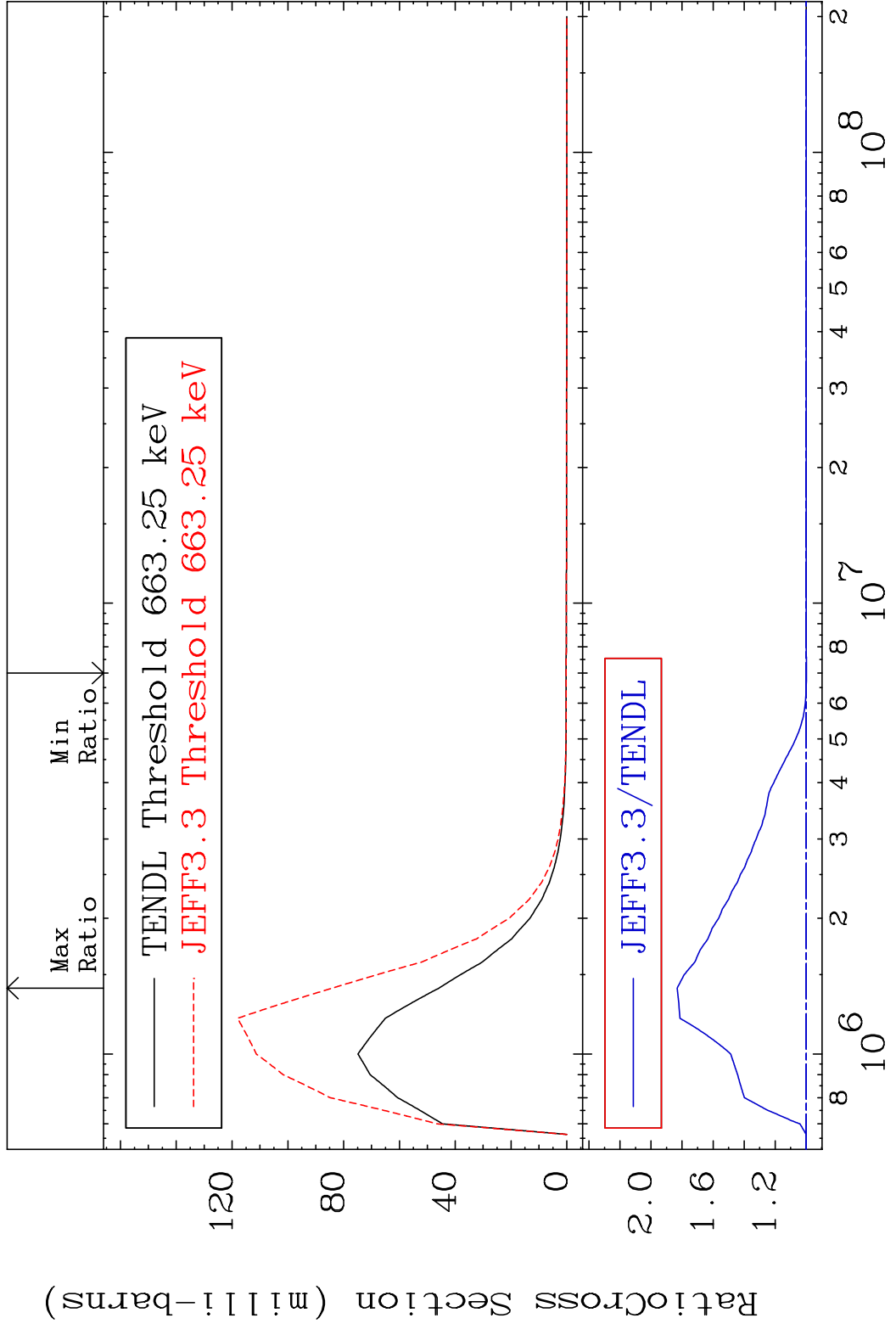
MAT 7040 MT= 64 (n, n') Level 70-Yb-173
 Cross Section -0.185 To 83.15 %



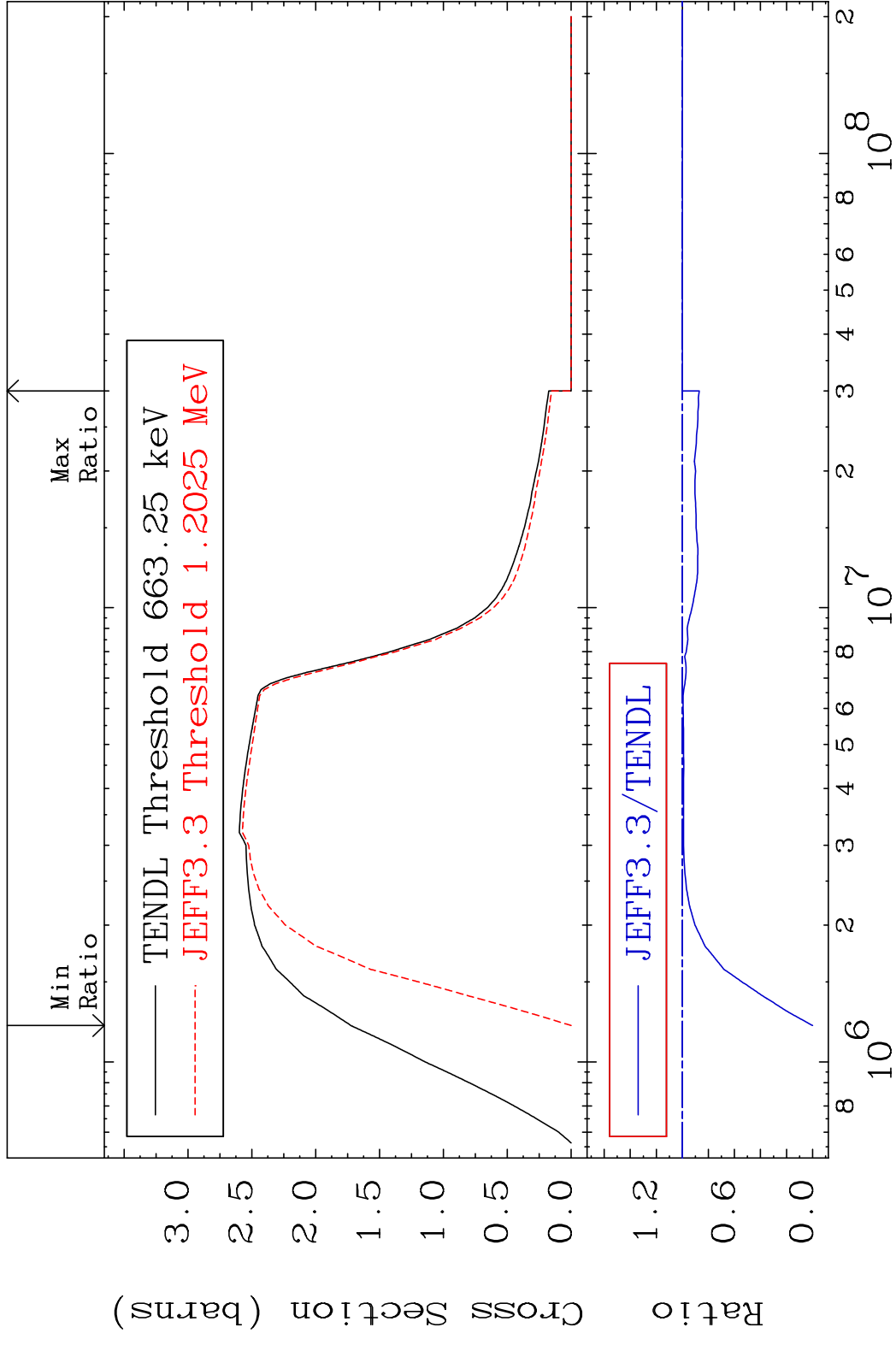
MAT 7040 MT= 65 (n, n') Level 70-Yb-173
 Cross Section -0.128 To 82.18 %



MAT 7040 MT= 66 (n, n') Level 70-Yb-173
 Cross Section -0.156 To 83.16 %



MAT 7040 (n, n') Continuum 70-Yb-173
 Cross Section -100.0 To 0.000 %

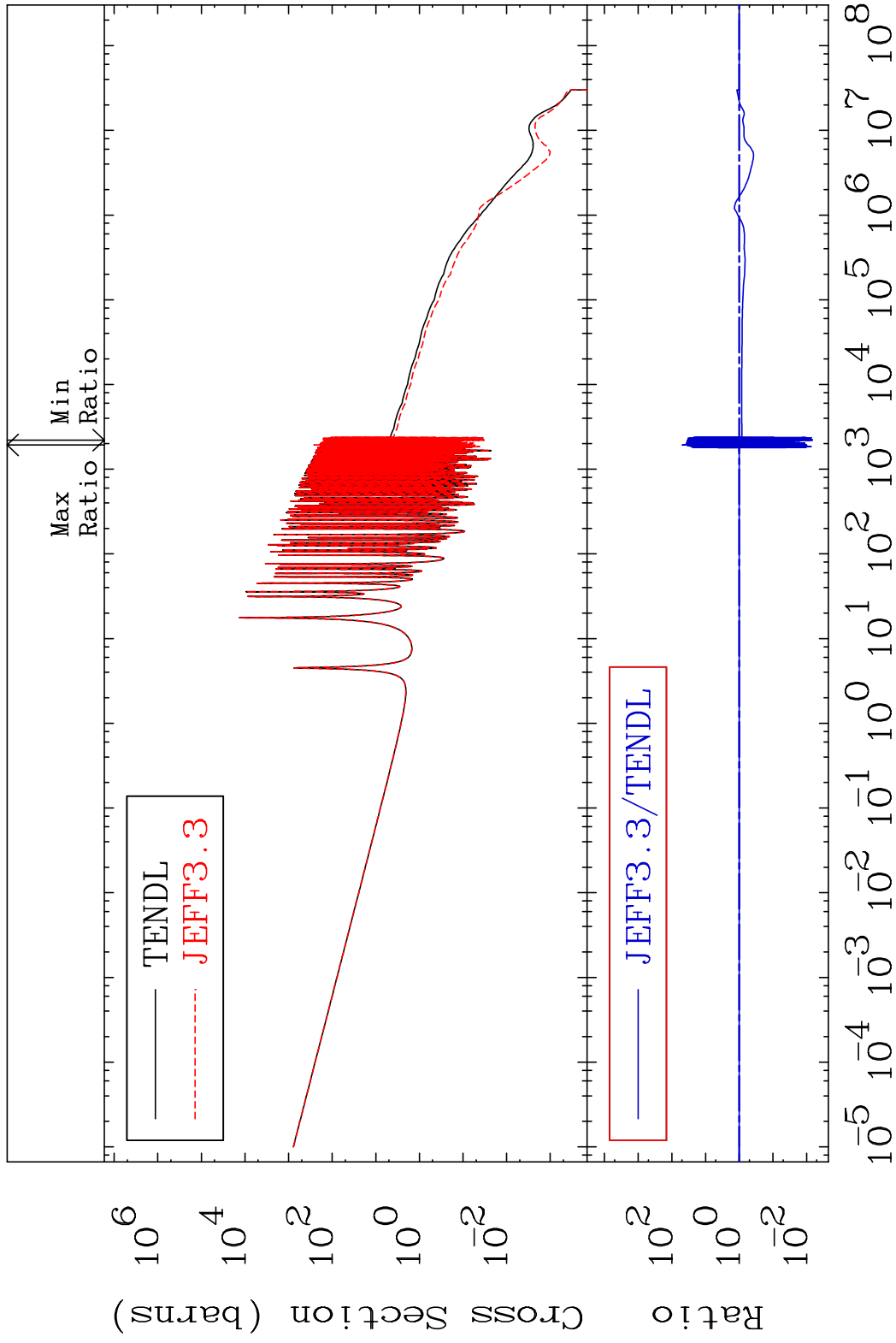


MAT 7040

(n, γ)

70-Yb-173

Cross Section -99.33 To 4788. %

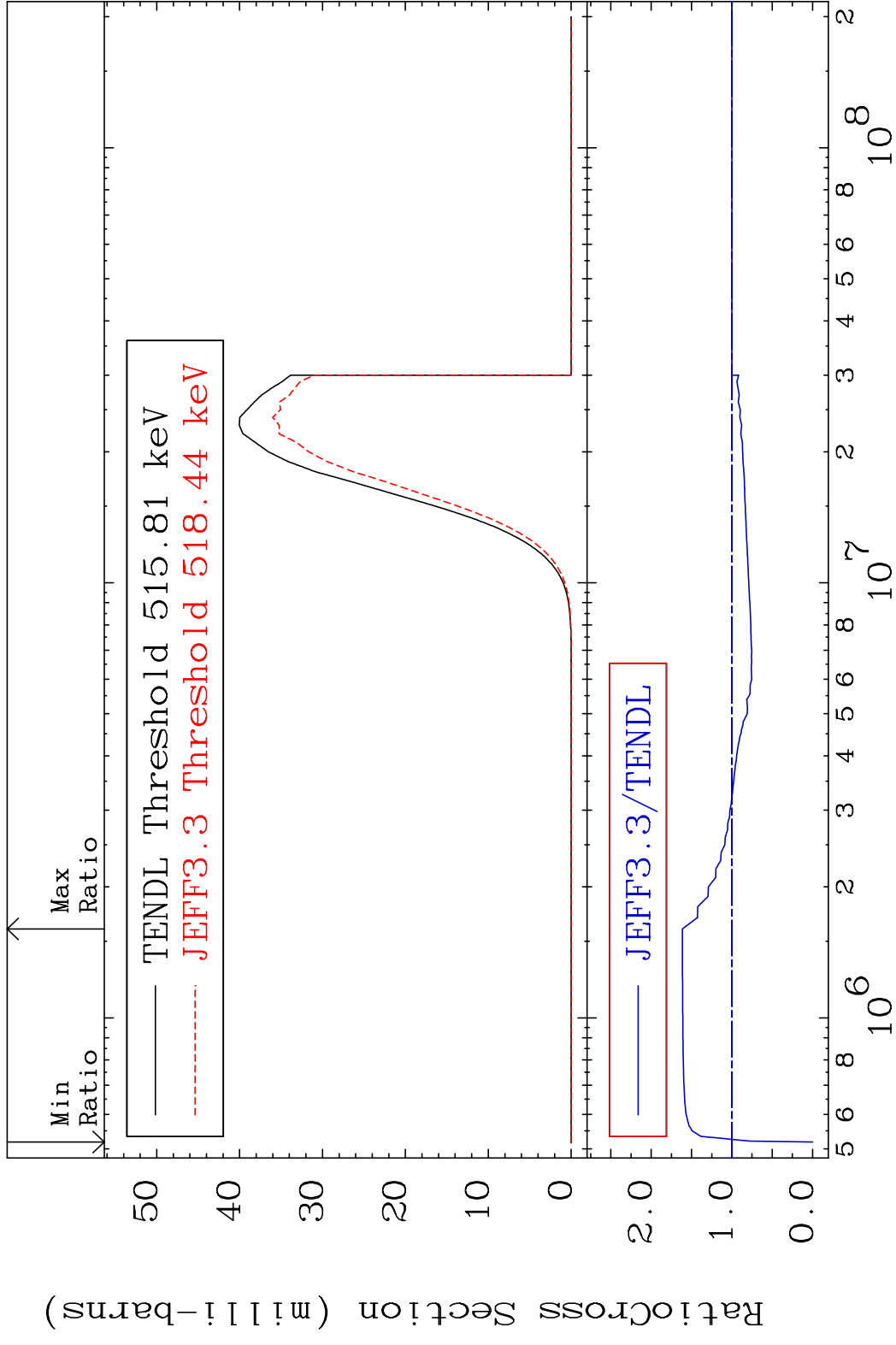


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Incident Energy (eV)

70-Yb-173

MAT 7040 (n,p) 70-Yb-173
 Cross Section -100.0 To 61.41 %

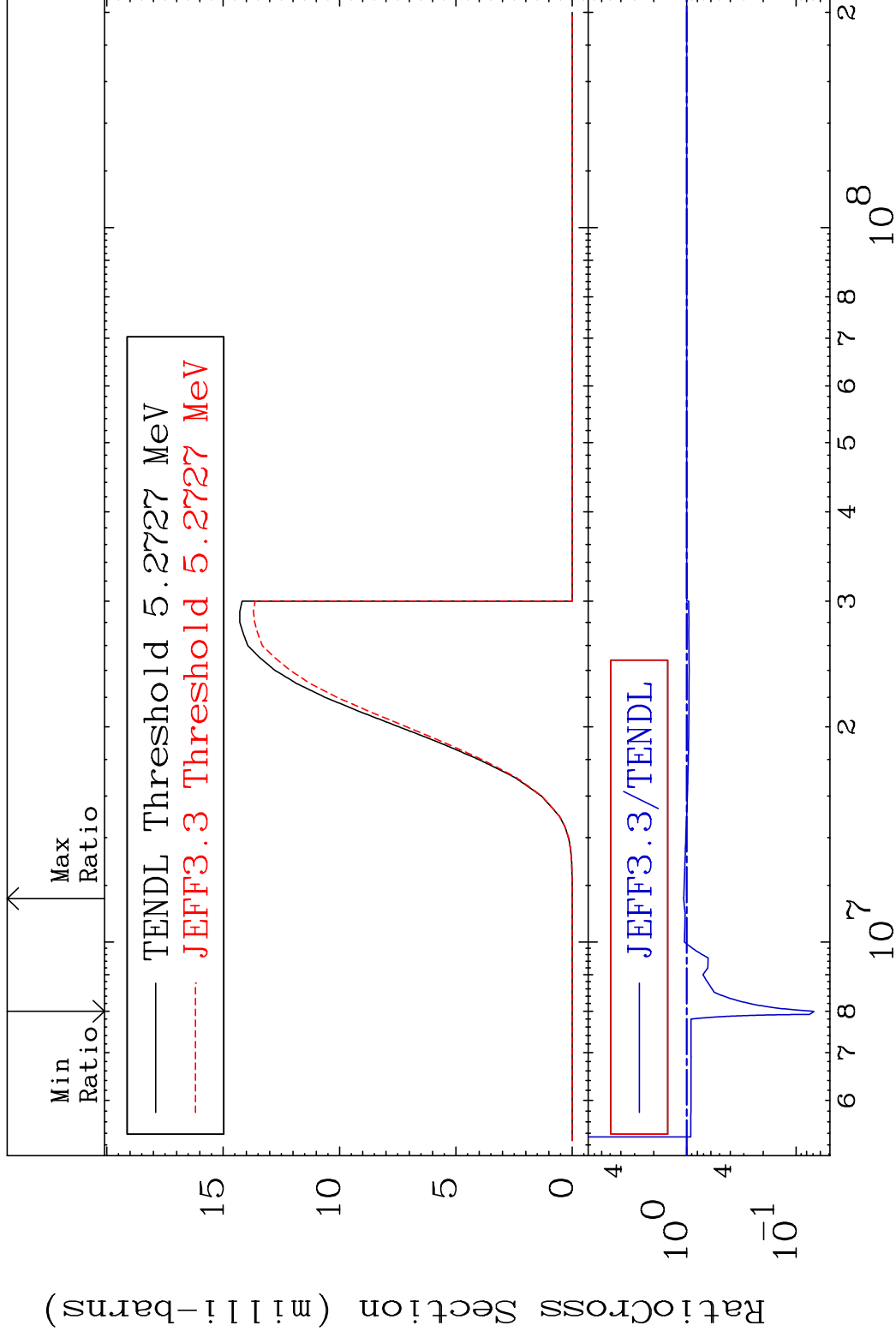


MAT 7040

(n, d)

70-Yb-173

Cross Section -93.16 To 6.596 %



40

Incident Energy (eV)

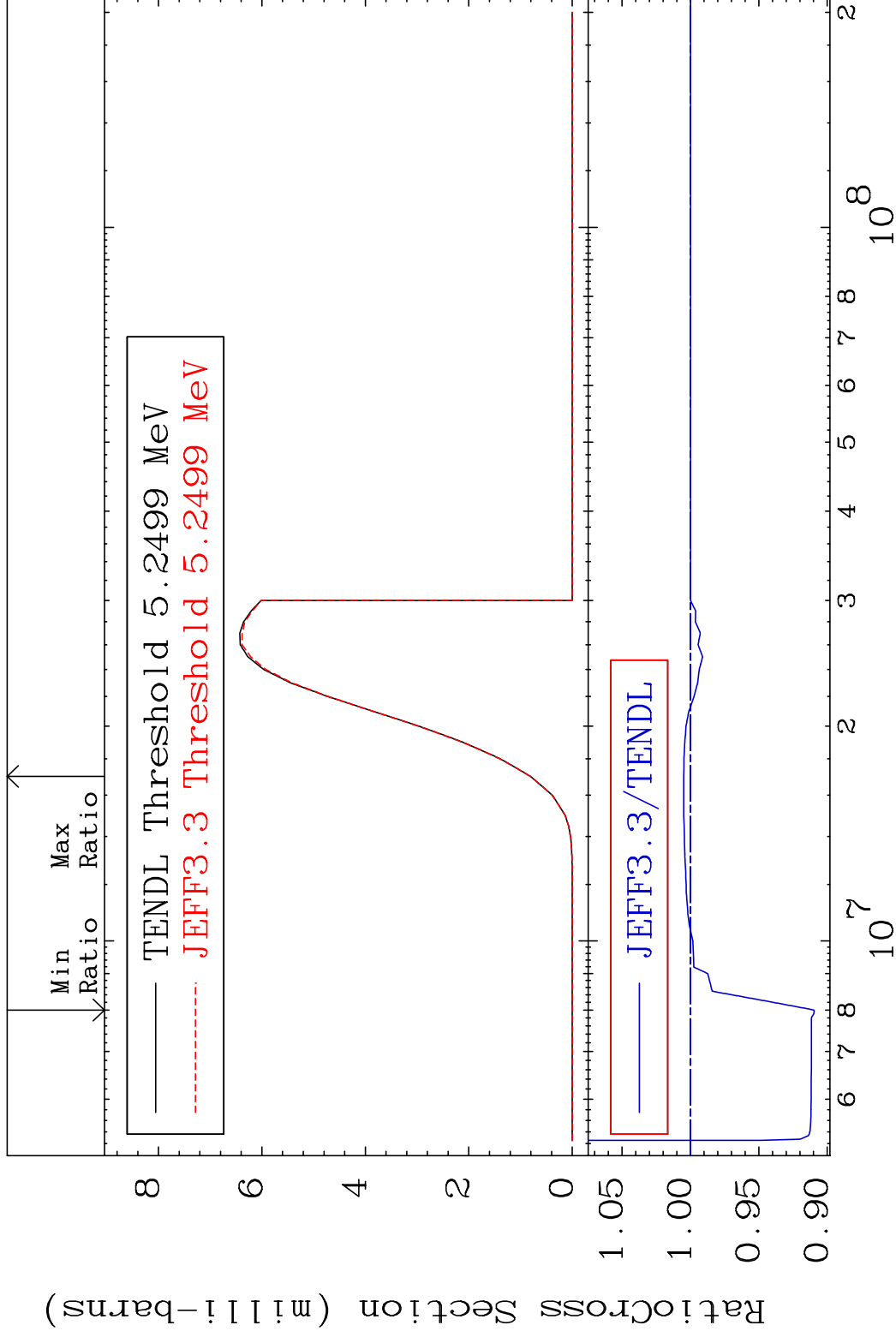
70-Yb-173

MAT 7040

(n, t)

70-Yb-173

Cross Section -9.039 To 0.496 %



41

Incident Energy (eV)

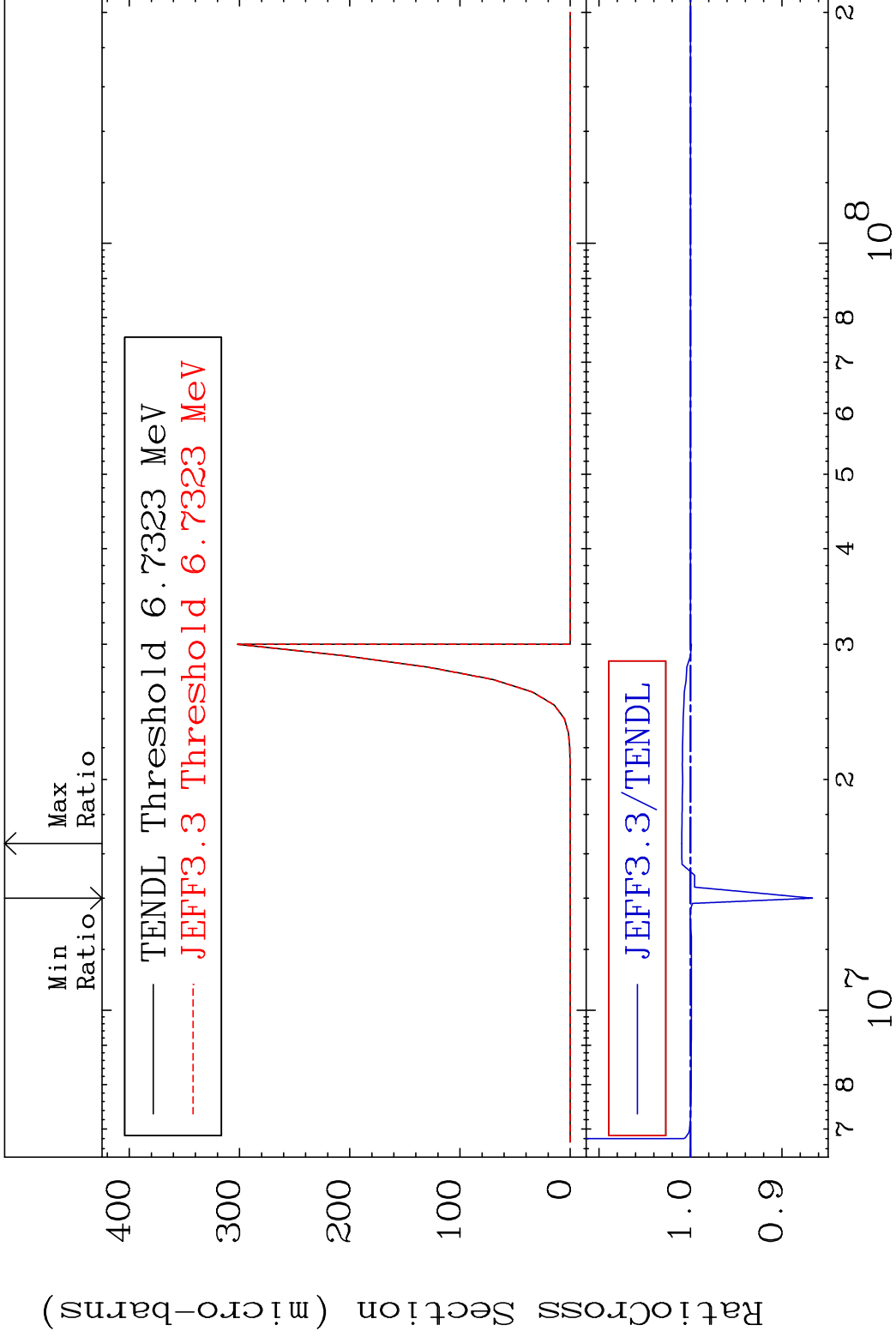
70-Yb-173

MAT 7040

(n, He-3)

70-Yb-173

Cross Section -13.33 To 0.959 %



42

Incident Energy (eV)

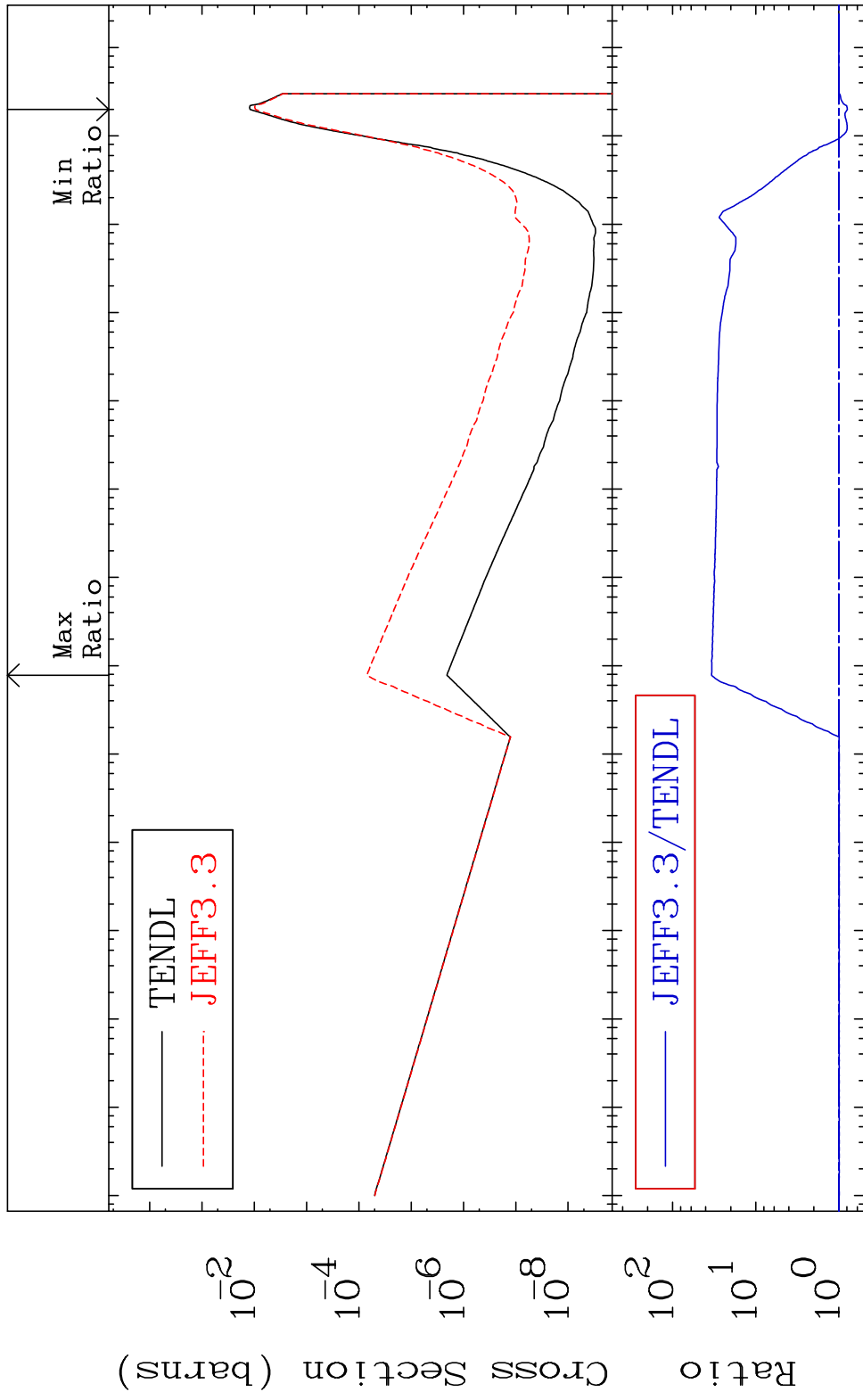
70-Yb-173

MAT 7040

70-Yb-173

(n, α)

Cross Section -21.00 To 3306. %



43

Incident Energy (eV)

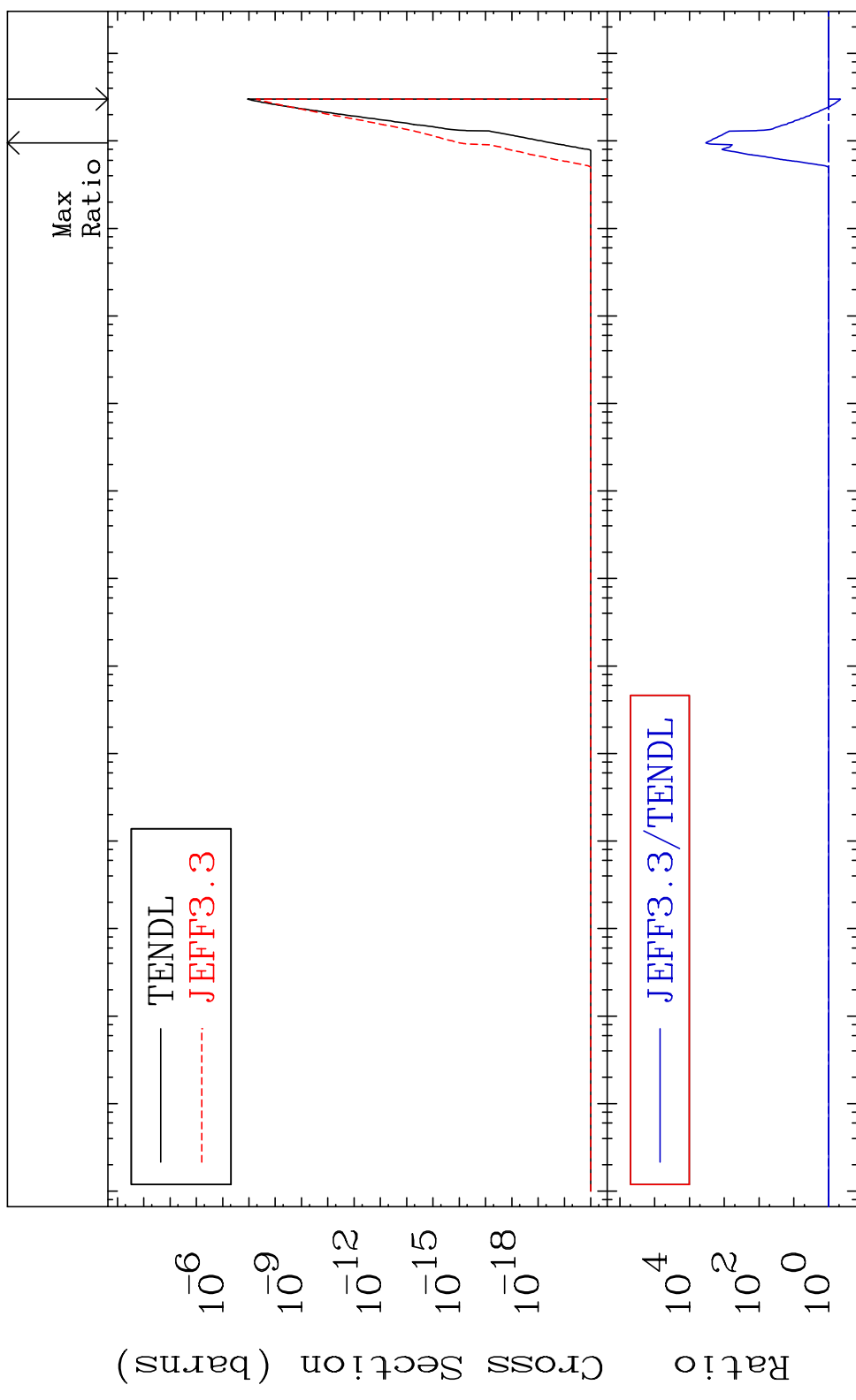
70-Yb-173

MAT 7040

(n,2α)

70-Yb-173

Cross Section -54.11 To 9999. %

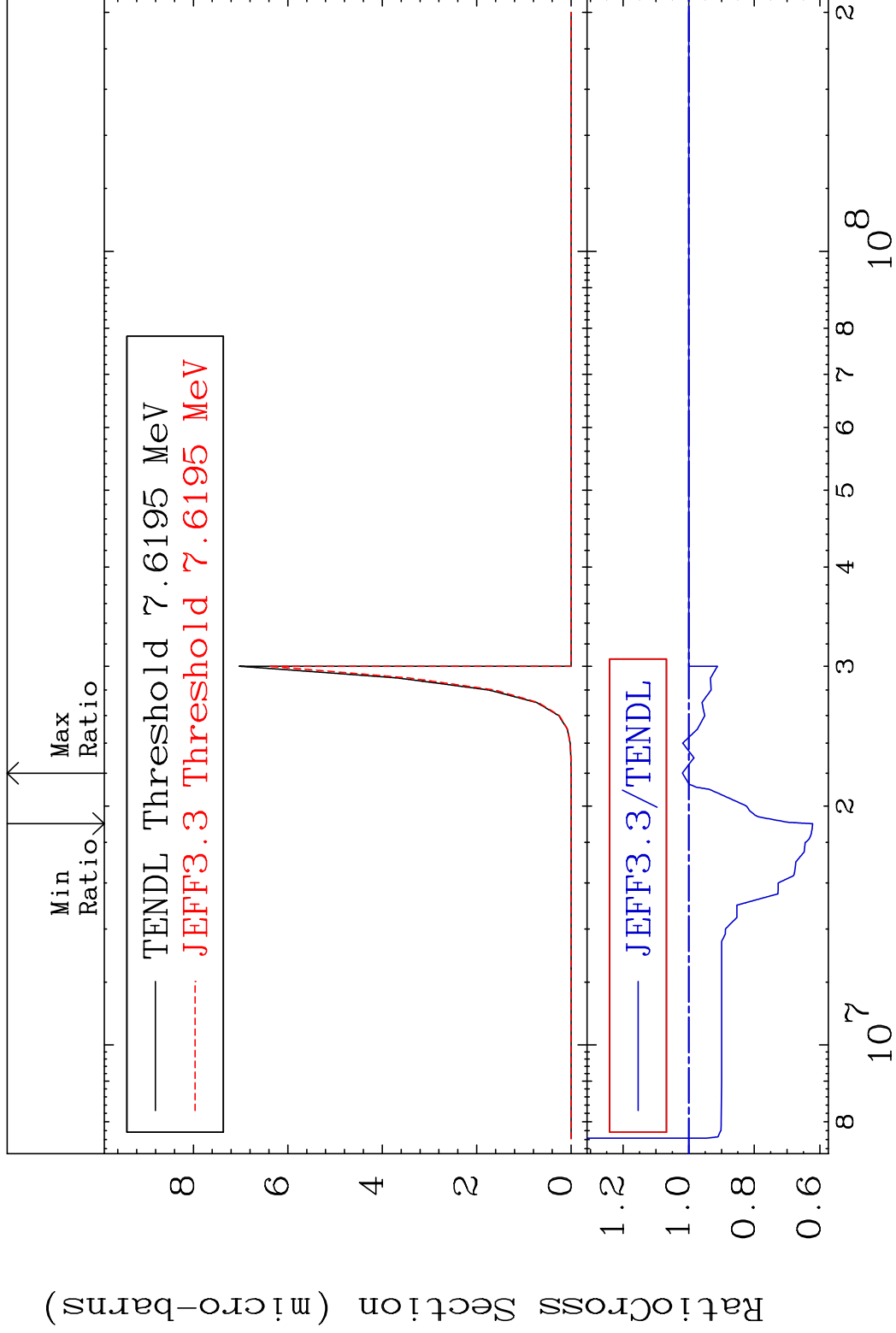


MAT 7040

(n,2p)

70-Yb-173

Cross Section -37.77 To 1.947 %

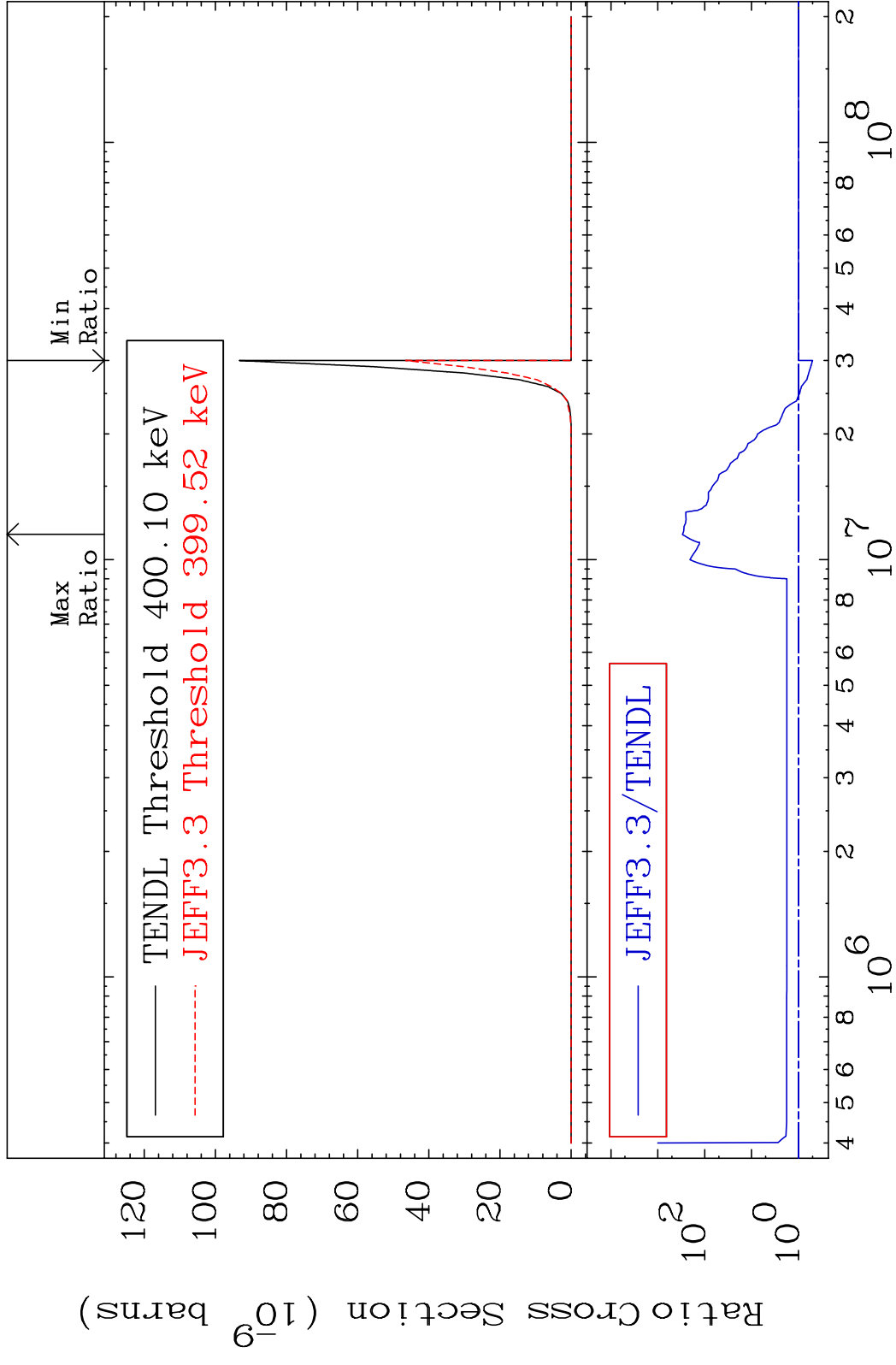


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Incident Energy (eV)

70-Yb-173

MAT 7040 (n,p) α 70-Yb-173
 Cross Section -50.13 To 9999. %

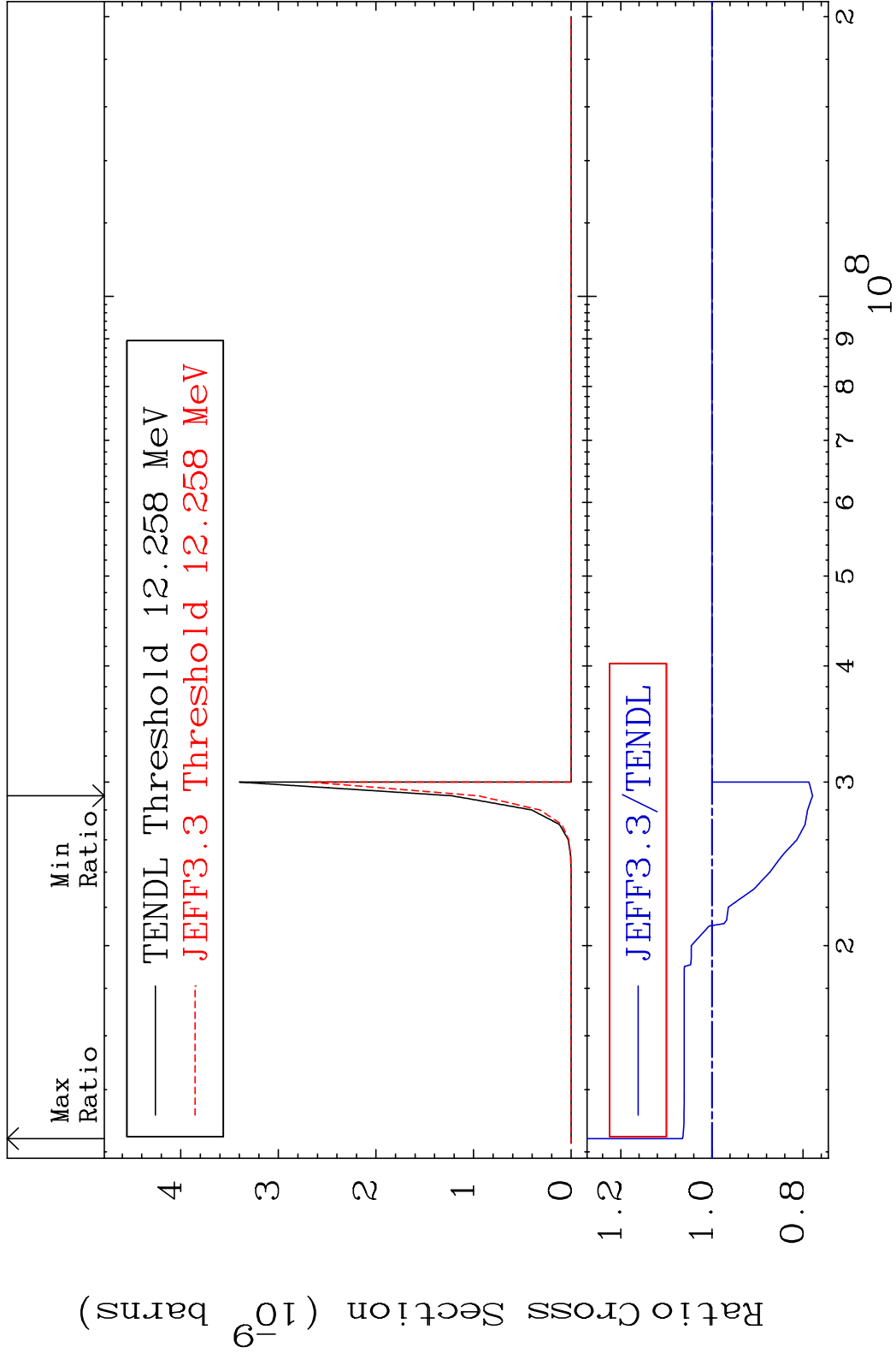


MAT 7040

(n,p) d

70-Yb-173

Cross Section -22.07 To 6.487 %

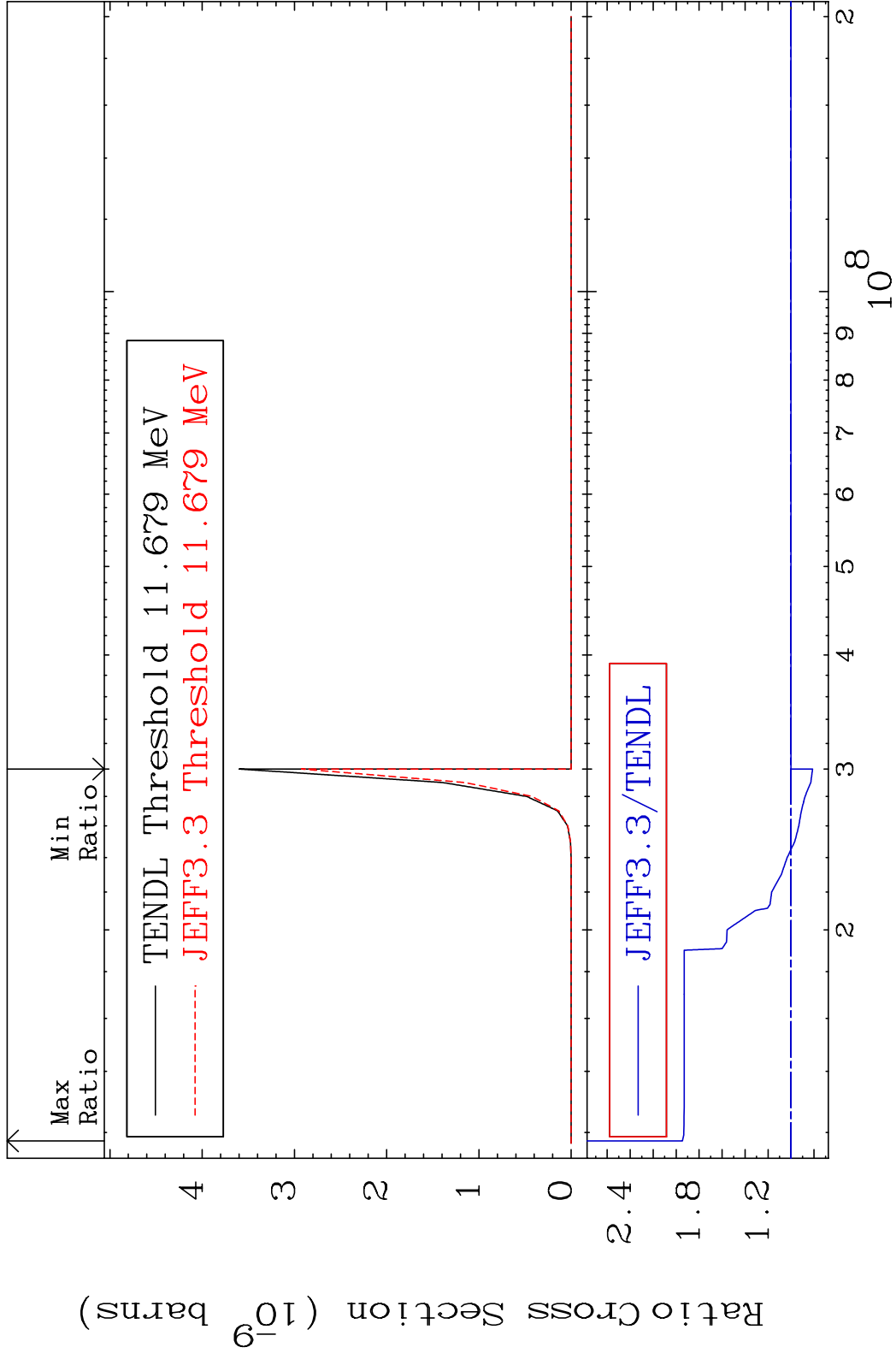


MAT 7040

(n,p) t

70-Yb-173

Cross Section -18.74 To 94.61 %

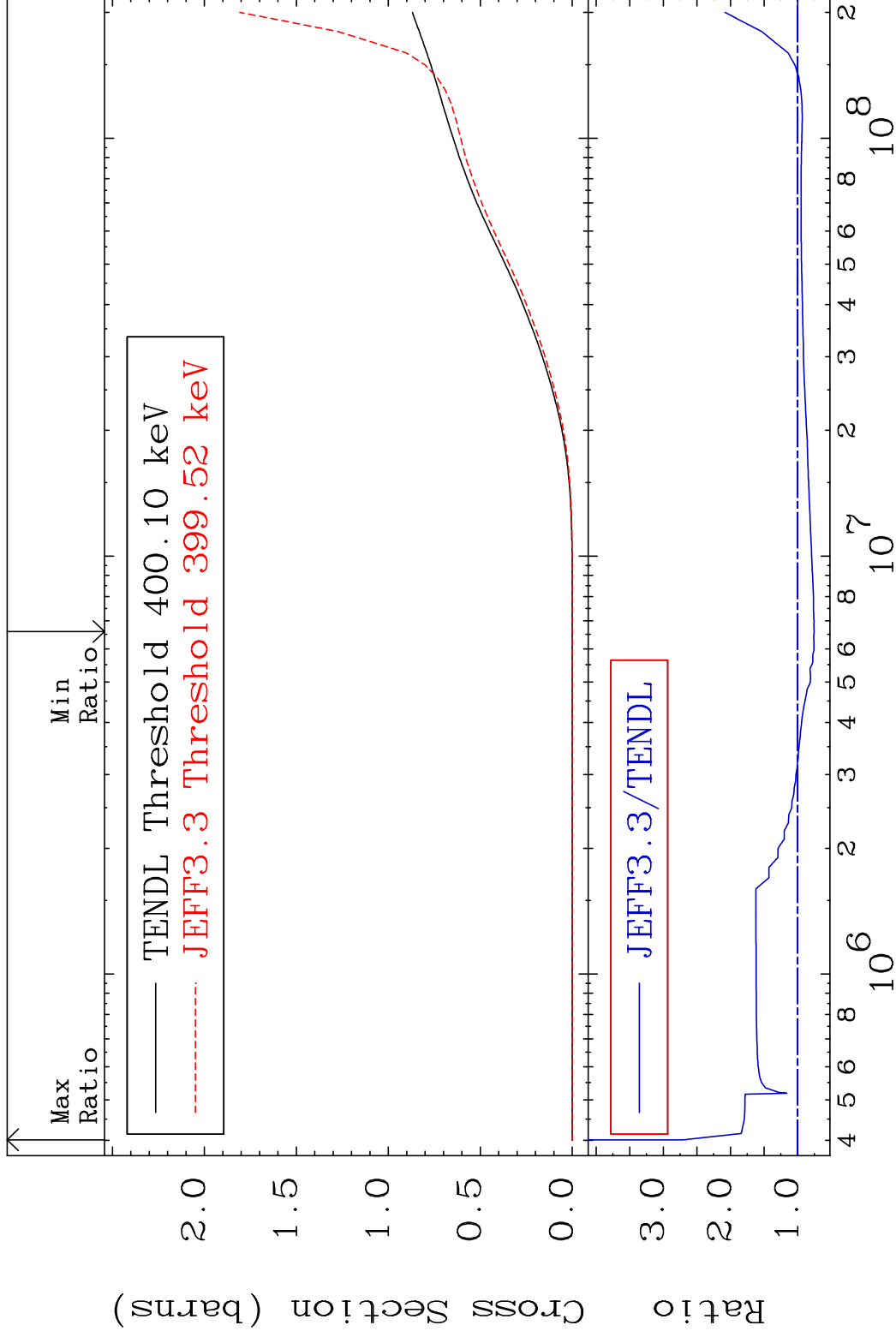


MAT 7040

Hydrogen Production

70-Yb-173

Cross Section -24.59 To 169.6 %



49

Incident Energy (eV)

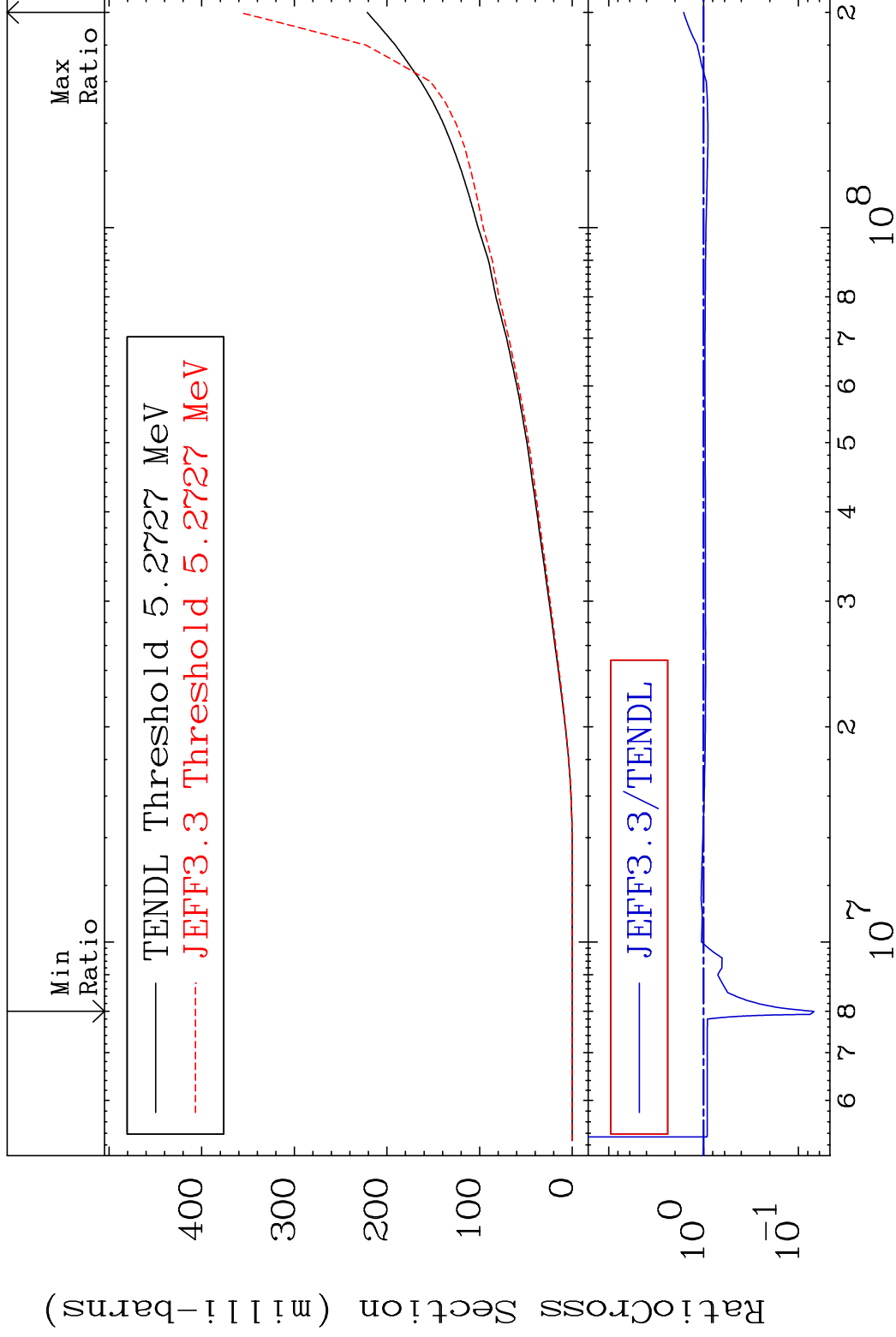
70-Yb-173

MAT 7040

Deuterium Production

70-Yb-173

Cross Section -93.16 To 62.22 %



50

Incident Energy (eV)

70-Yb-173

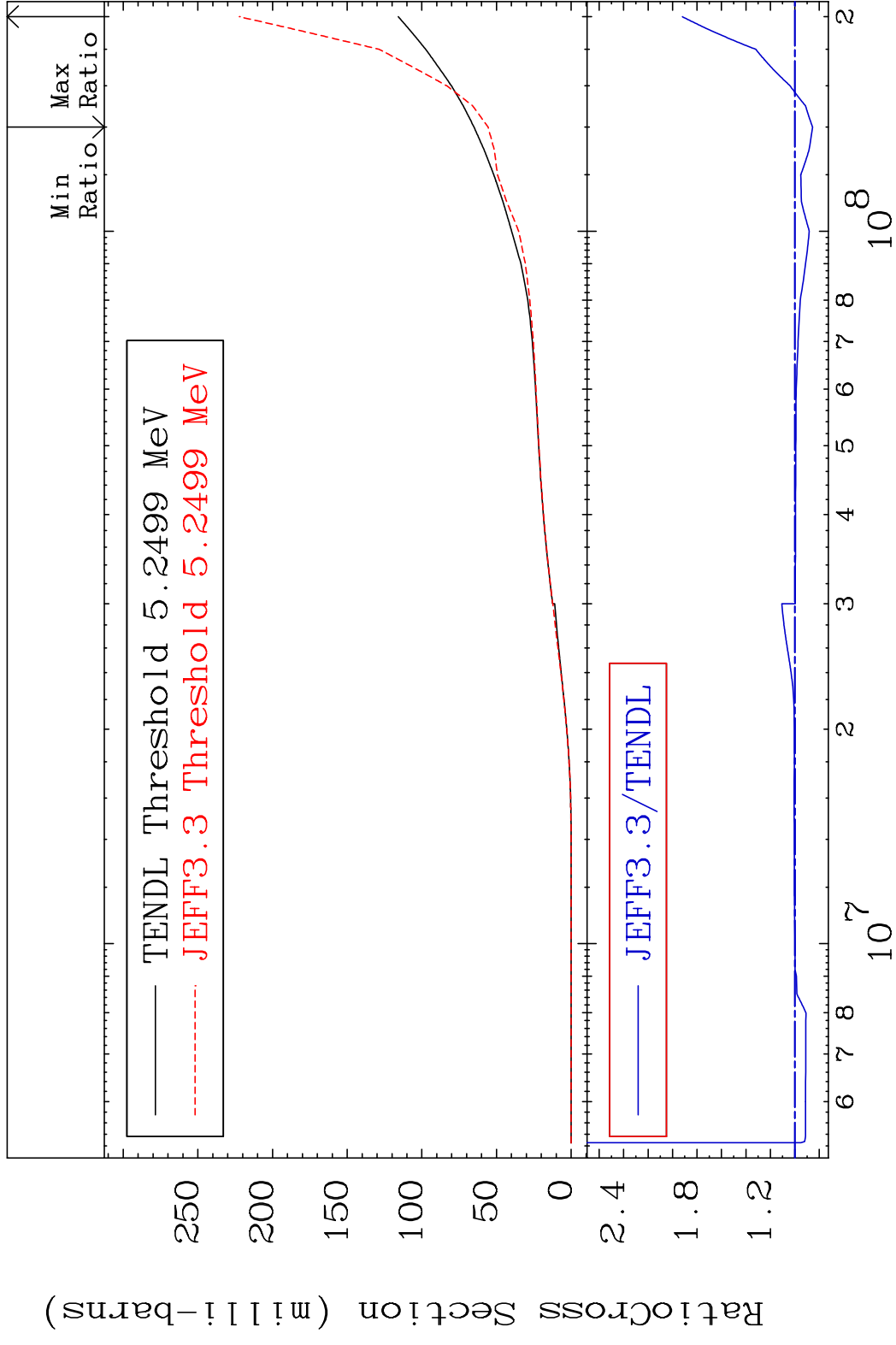
MAT 7040

Tritium Production

70-Yb-173

Cross Section

-14.48 To 91.98 %

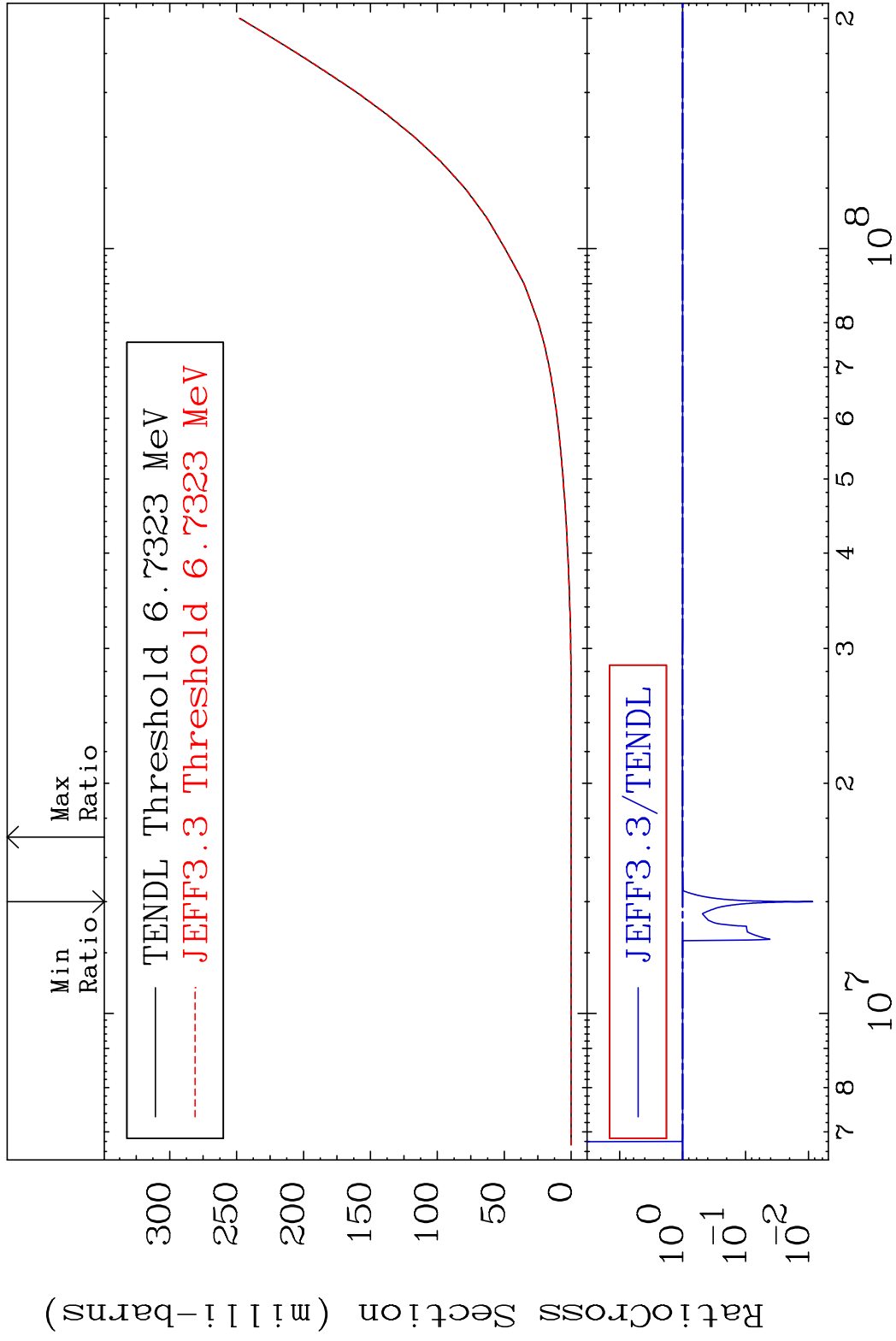


MAT 7040

He-3 Production

70-Yb-173

Cross Section -99.14 To 0.959 %



52

Incident Energy (eV)

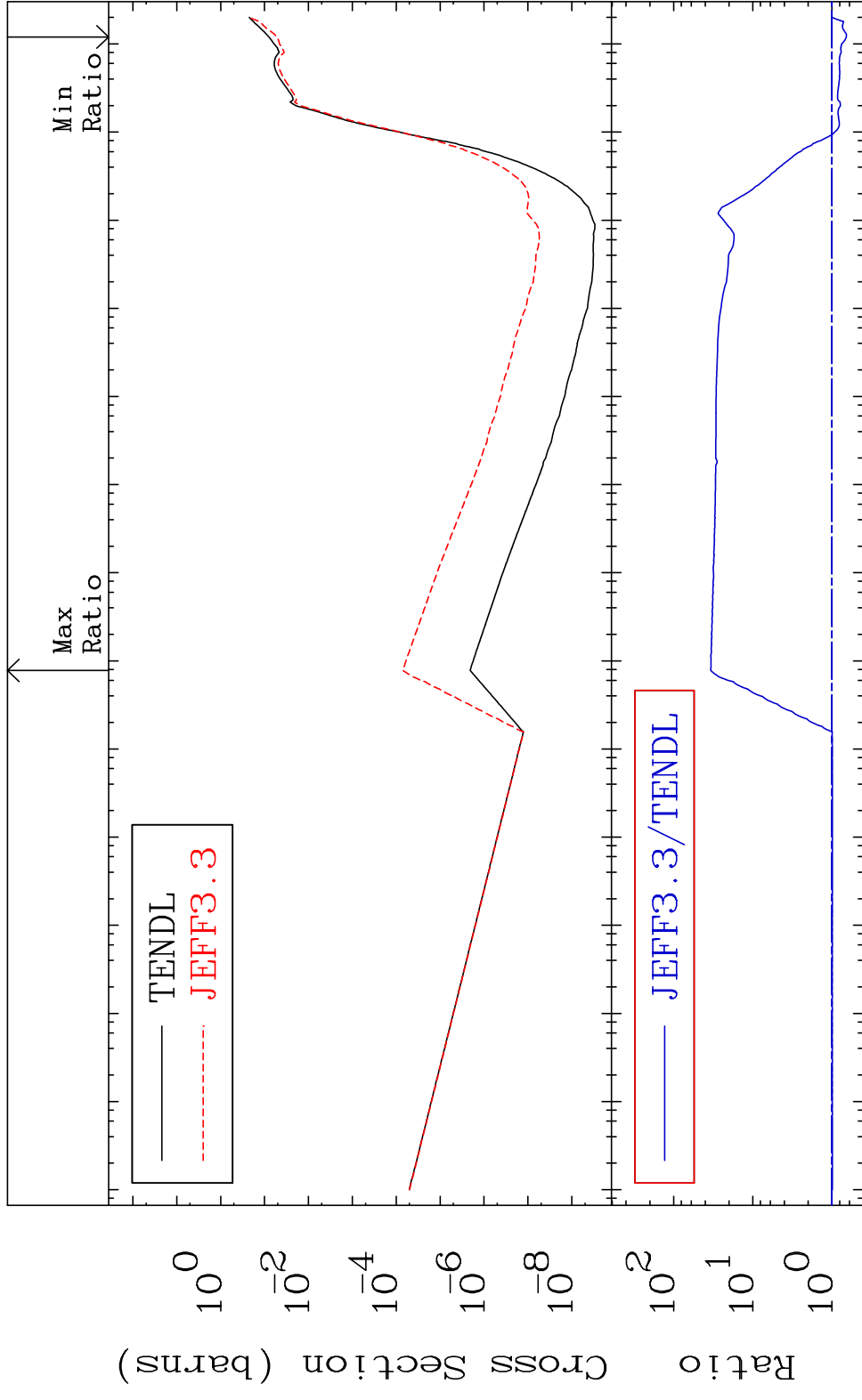
70-Yb-173

MAT 7040

He-4 Production

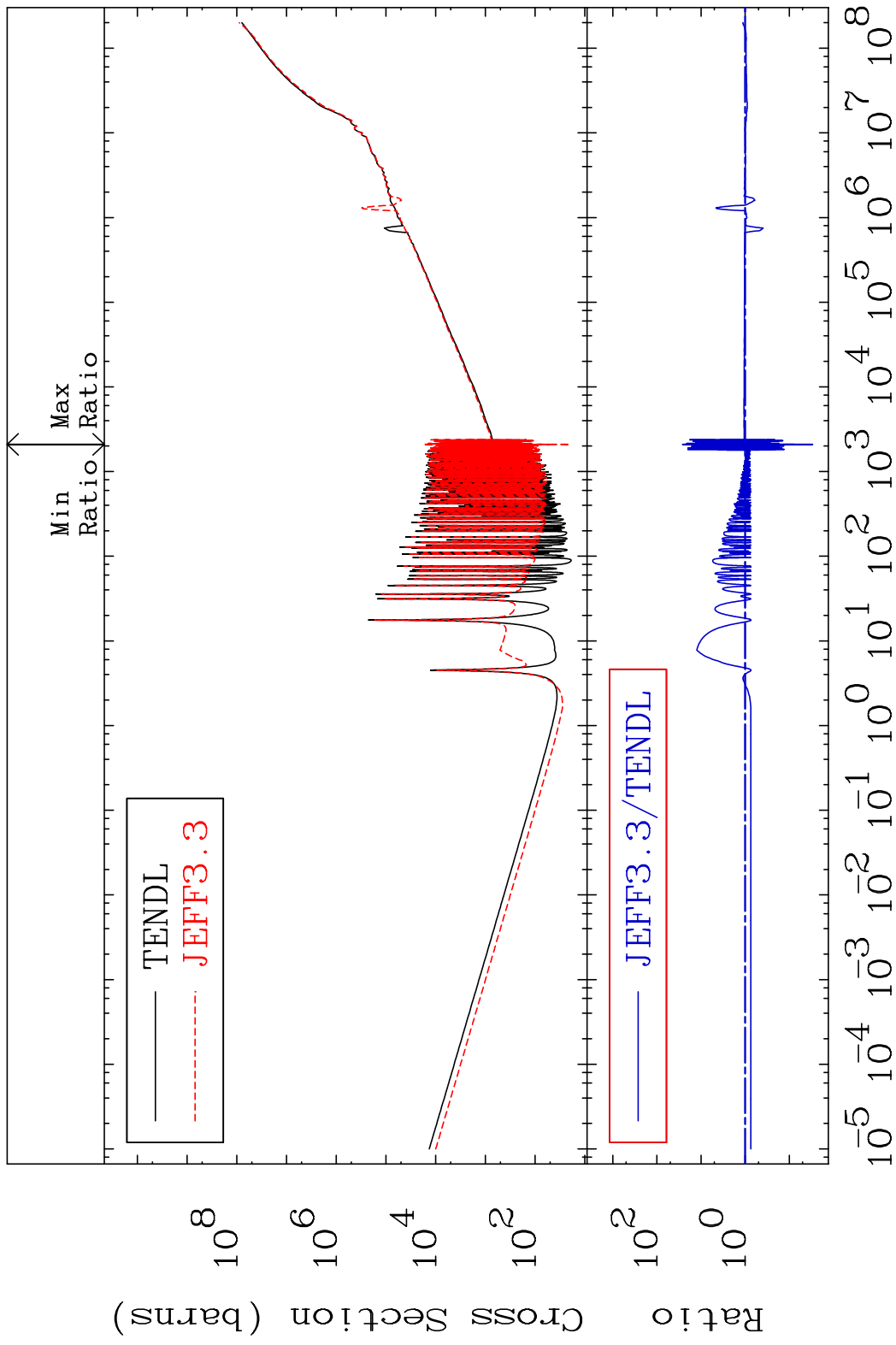
70-Yb-173

Cross Section -34.14 To 3306. %



Incident Energy (eV) 70-Yb-173

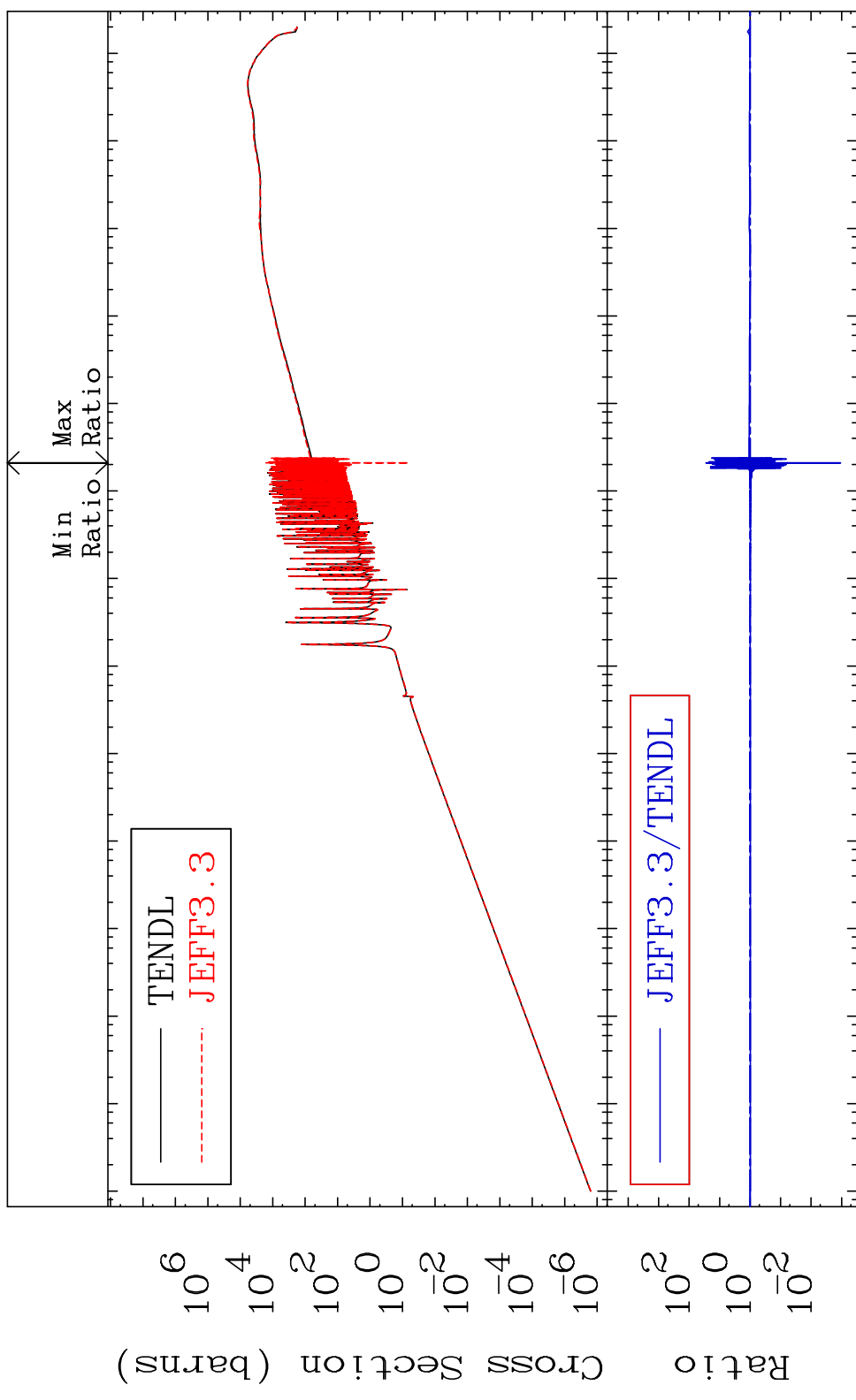
MAT 7040 Kerma total (eV-barns) 70-Yb-173
 Cross Section -97.03 To 2551. %



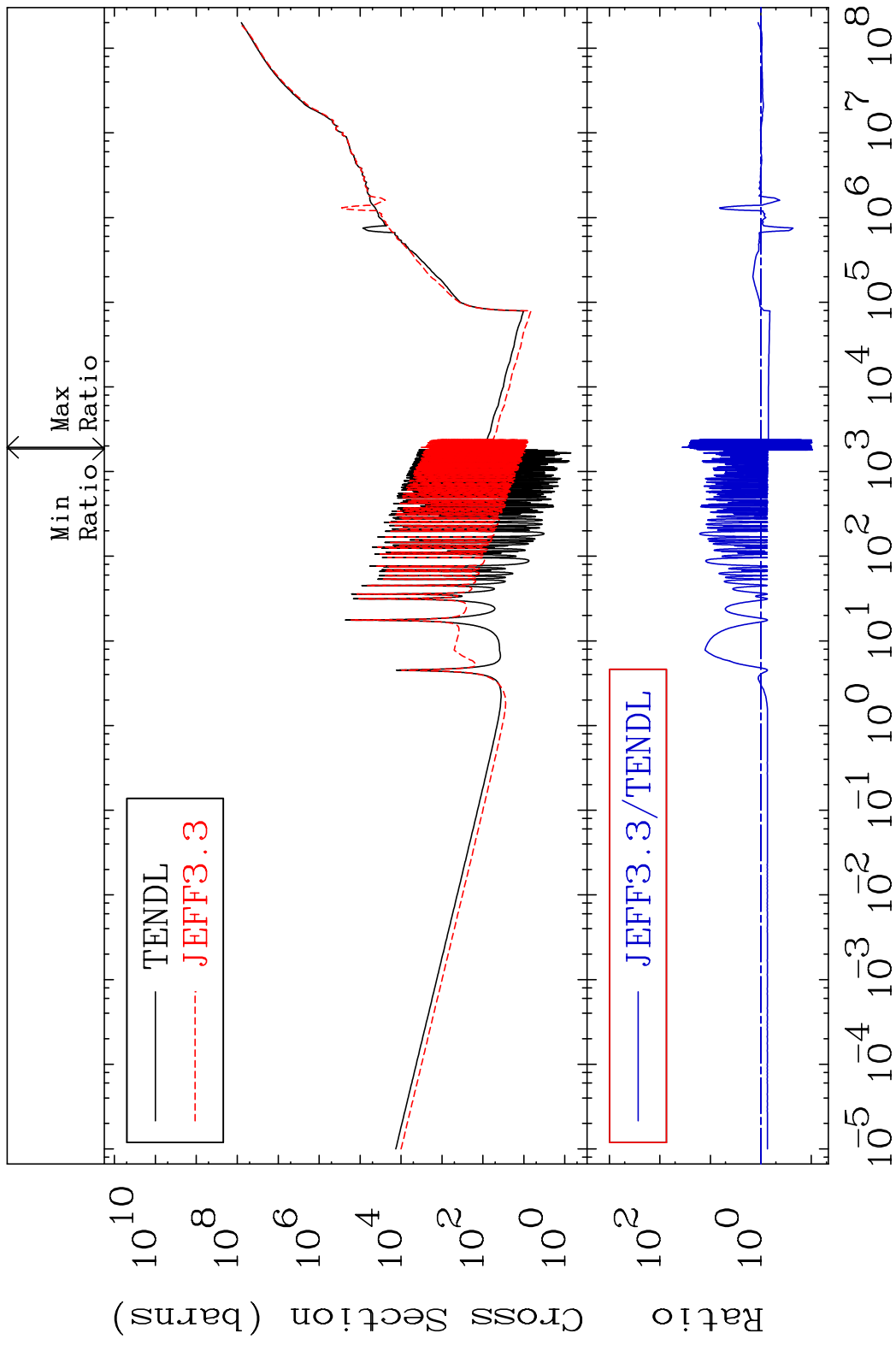
54 Incident Energy (eV) 70-Yb-173

MAT 7040

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

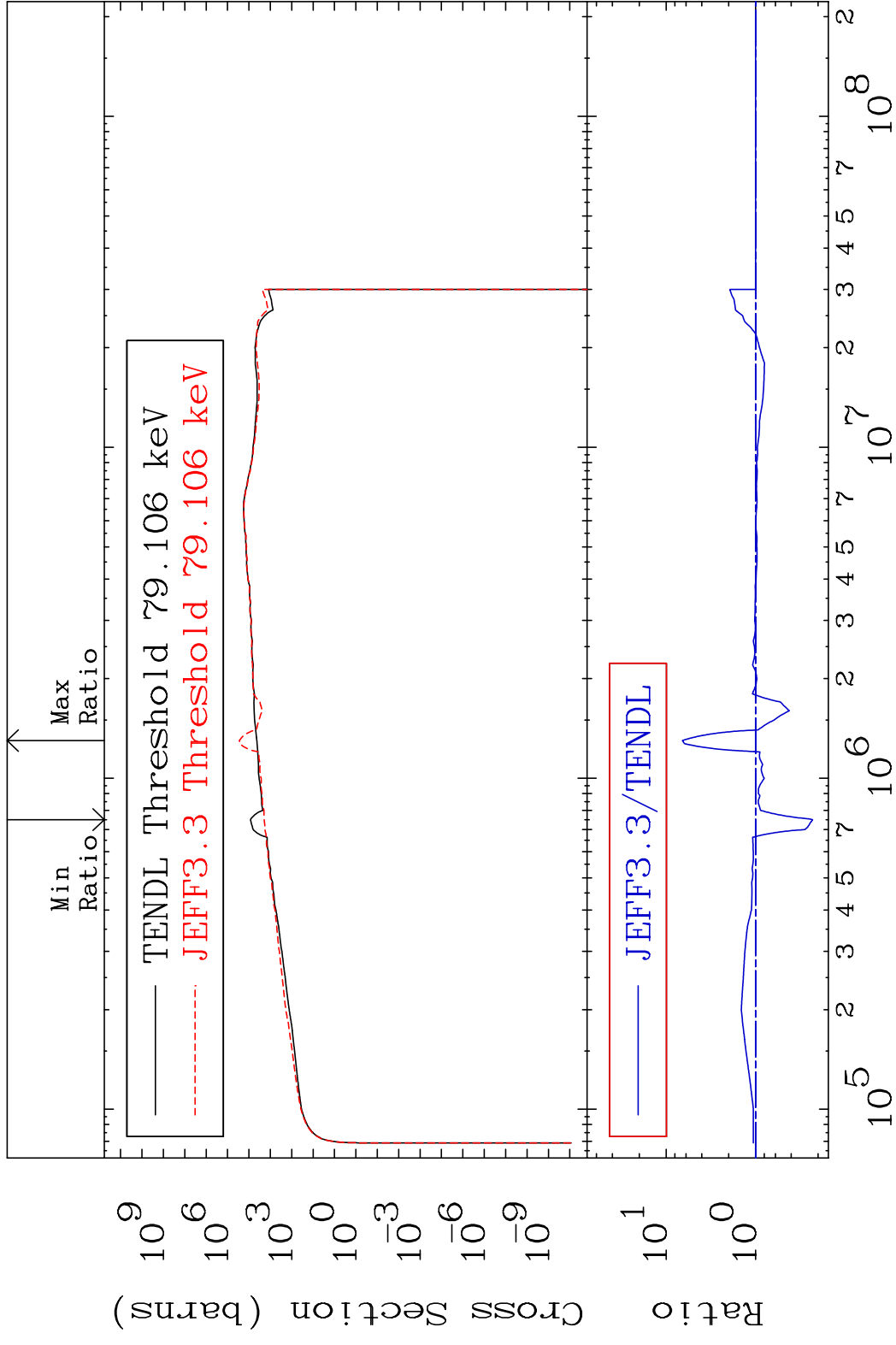


MAT 7040 Kerma non-elastic (all but mt2) 70-Yb-173
 Cross Section -90.57 To 3485. %



MAT 7040

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

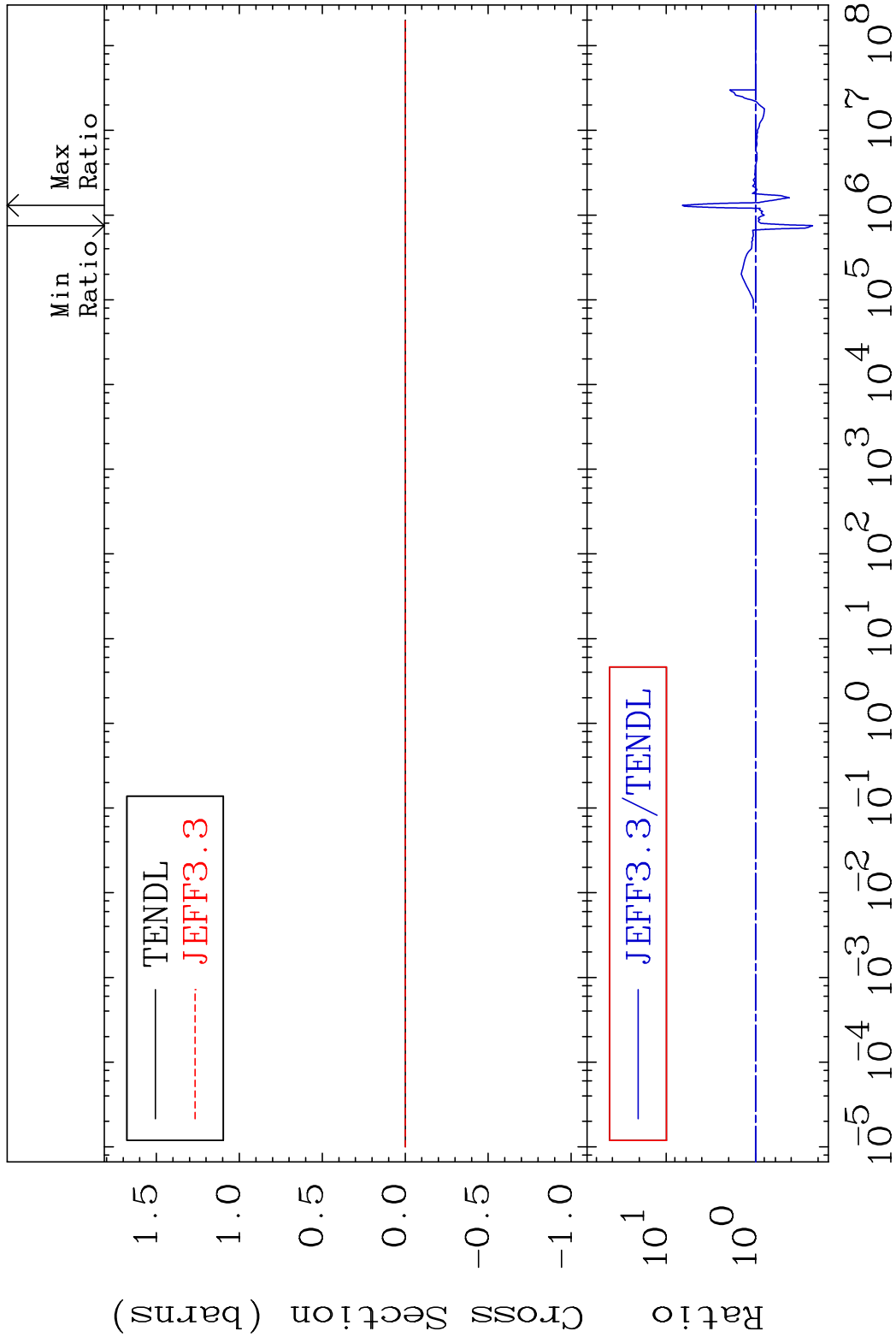


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Incident Energy (eV)

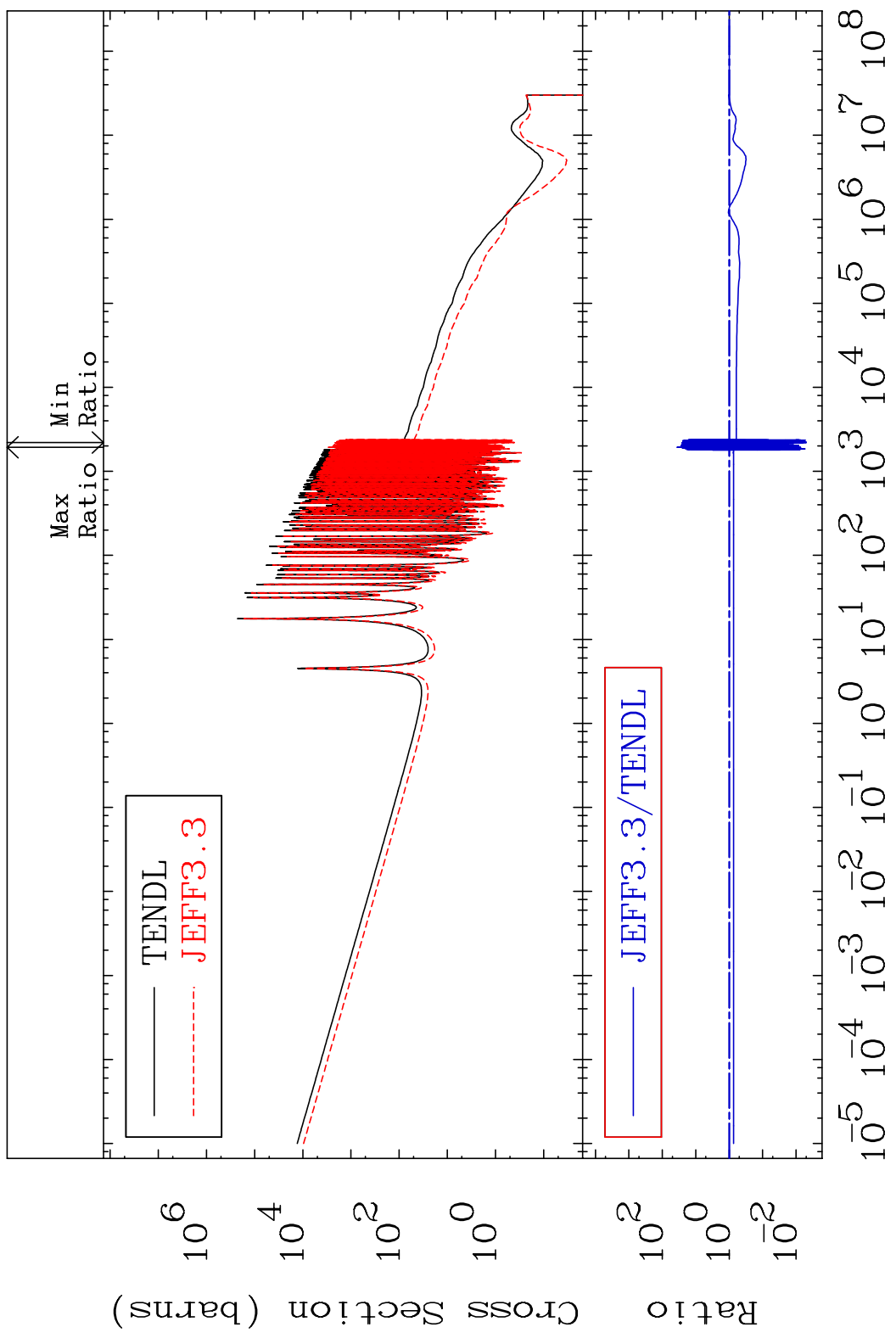
70-Yb-173

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. %



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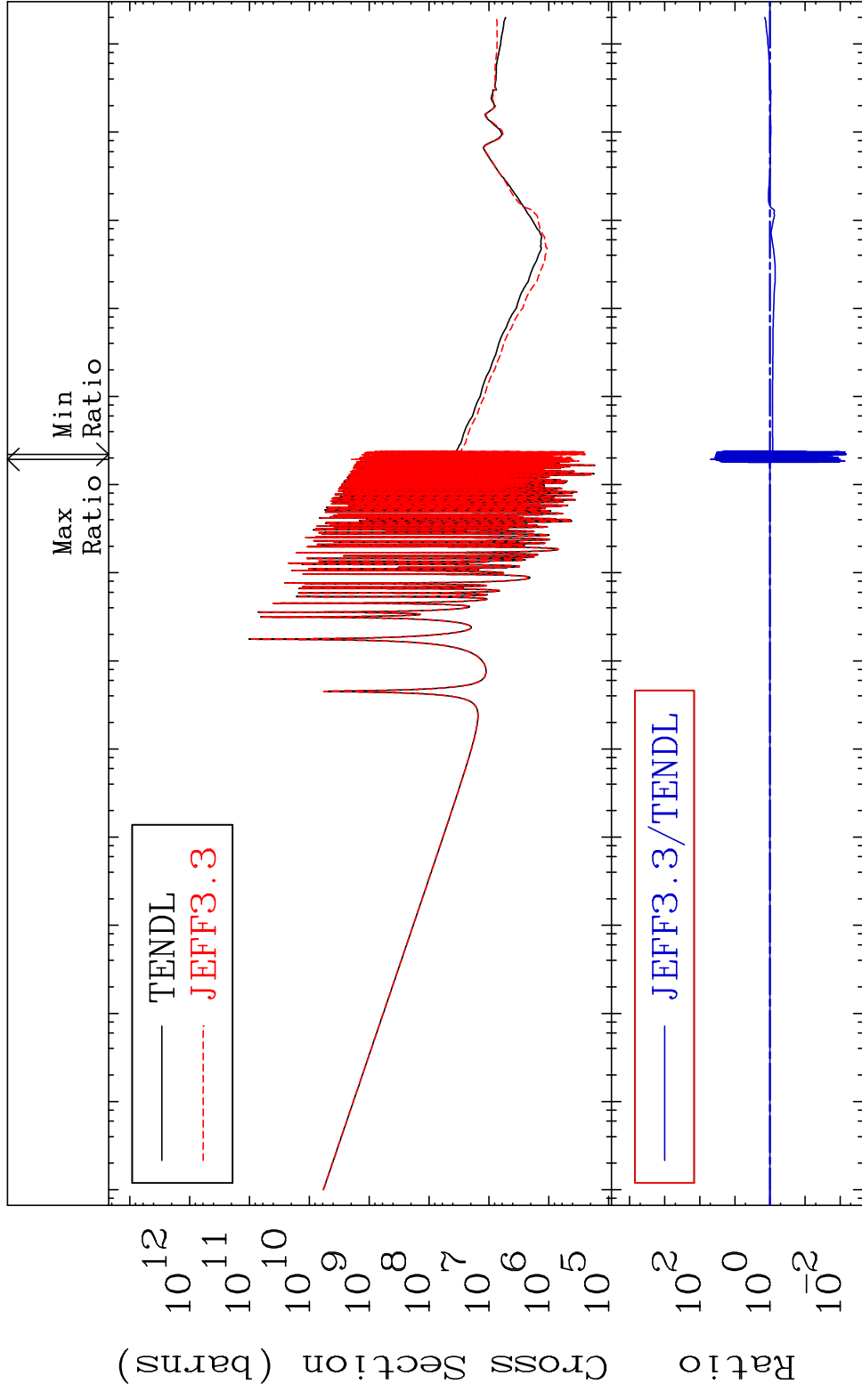
Incident Energy (eV) 70-Yb-173

MAT 7040

Total photon (eV-barns)

70-Yb-173

Cross Section -99.33 To 4788. %

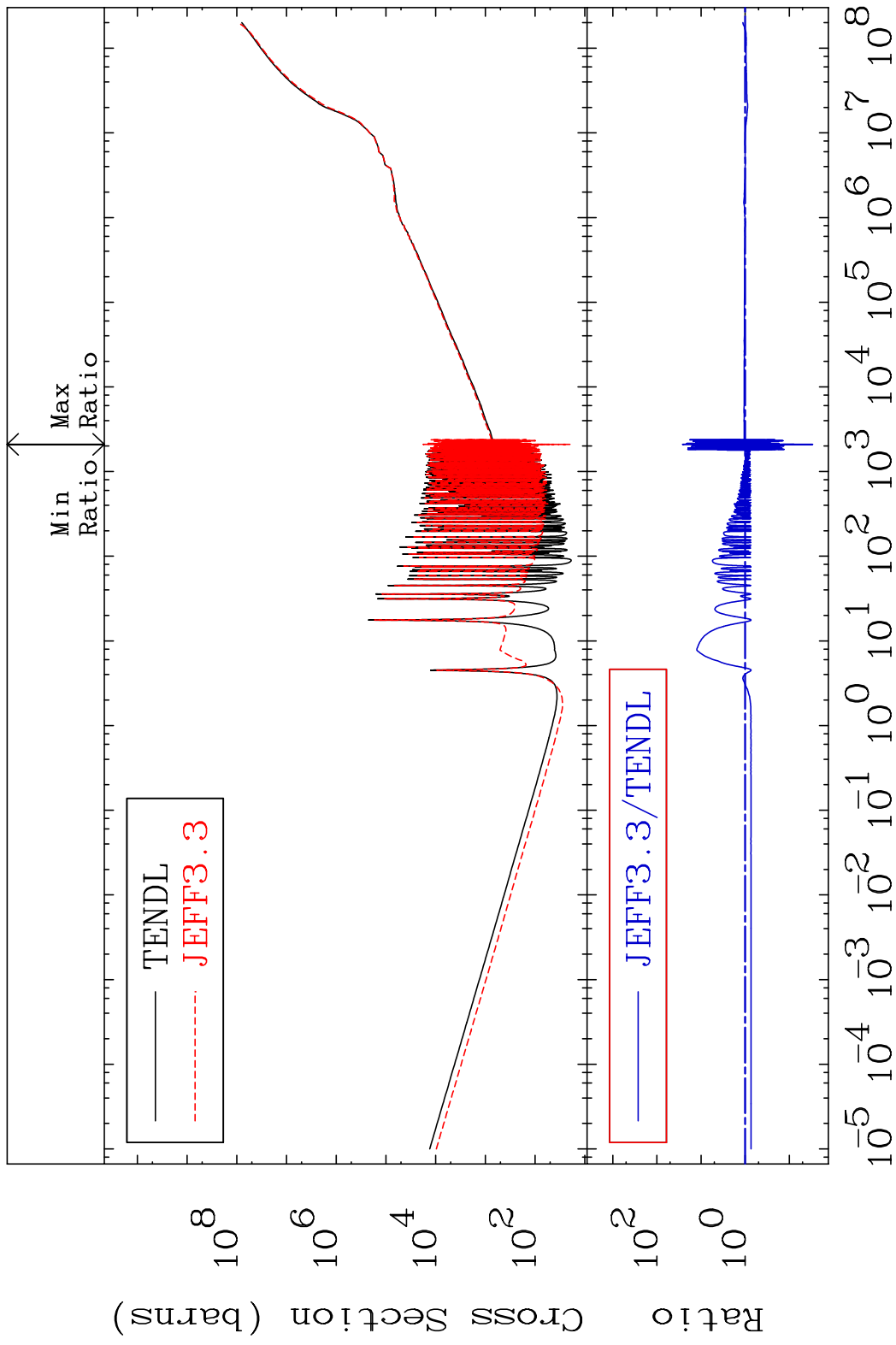


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Incident Energy (eV)

70-Yb-173

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

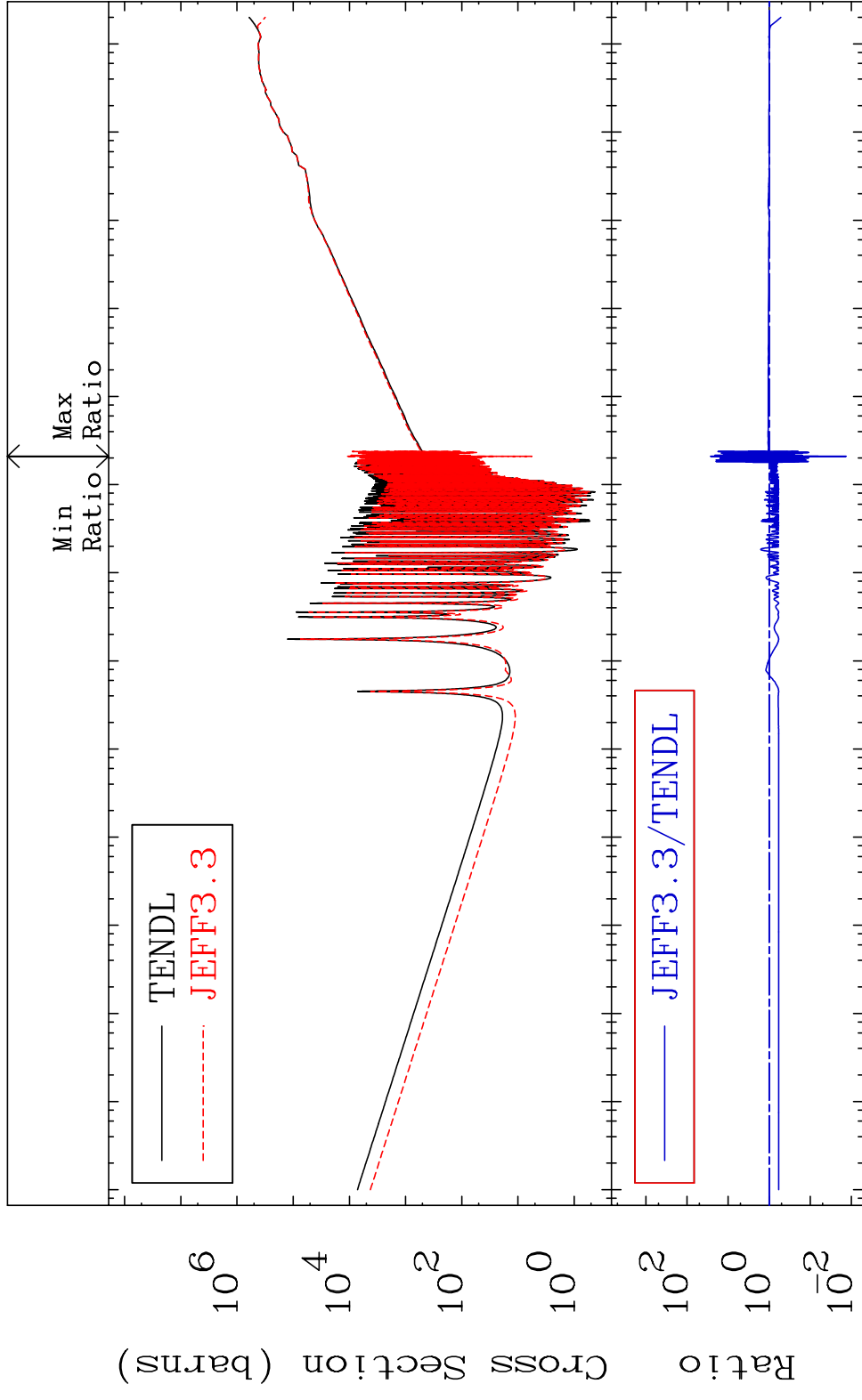


MAT 7040

Dpa total (eV-barns)

70-Yb-173

Cross Section -98.68 To 2554. %



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Incident Energy (eV)

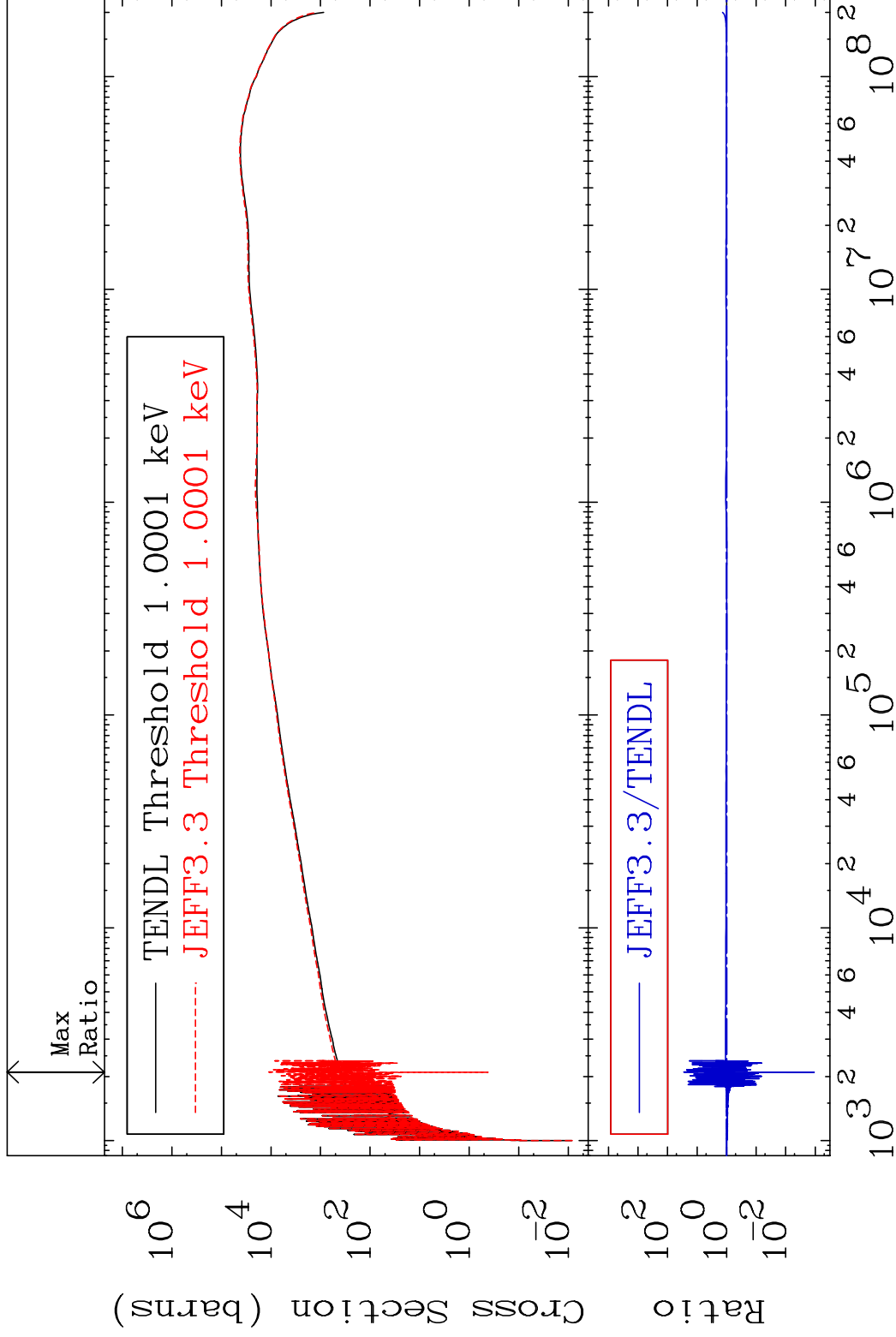
70-Yb-173

MAT 7040

Dpa elastic (mt2)

70-Yb-173

Cross Section -99.89 To 2752. %

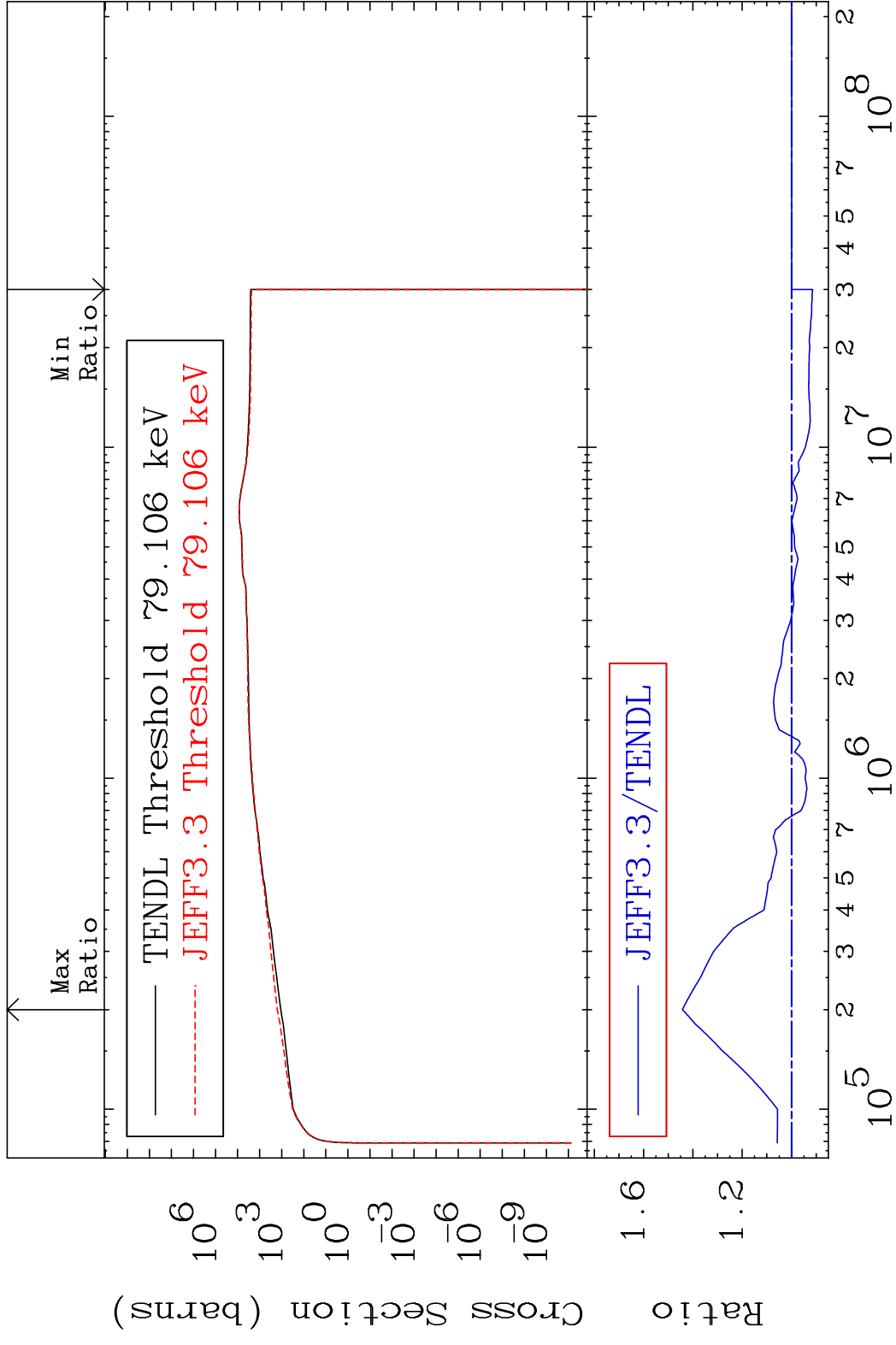


63

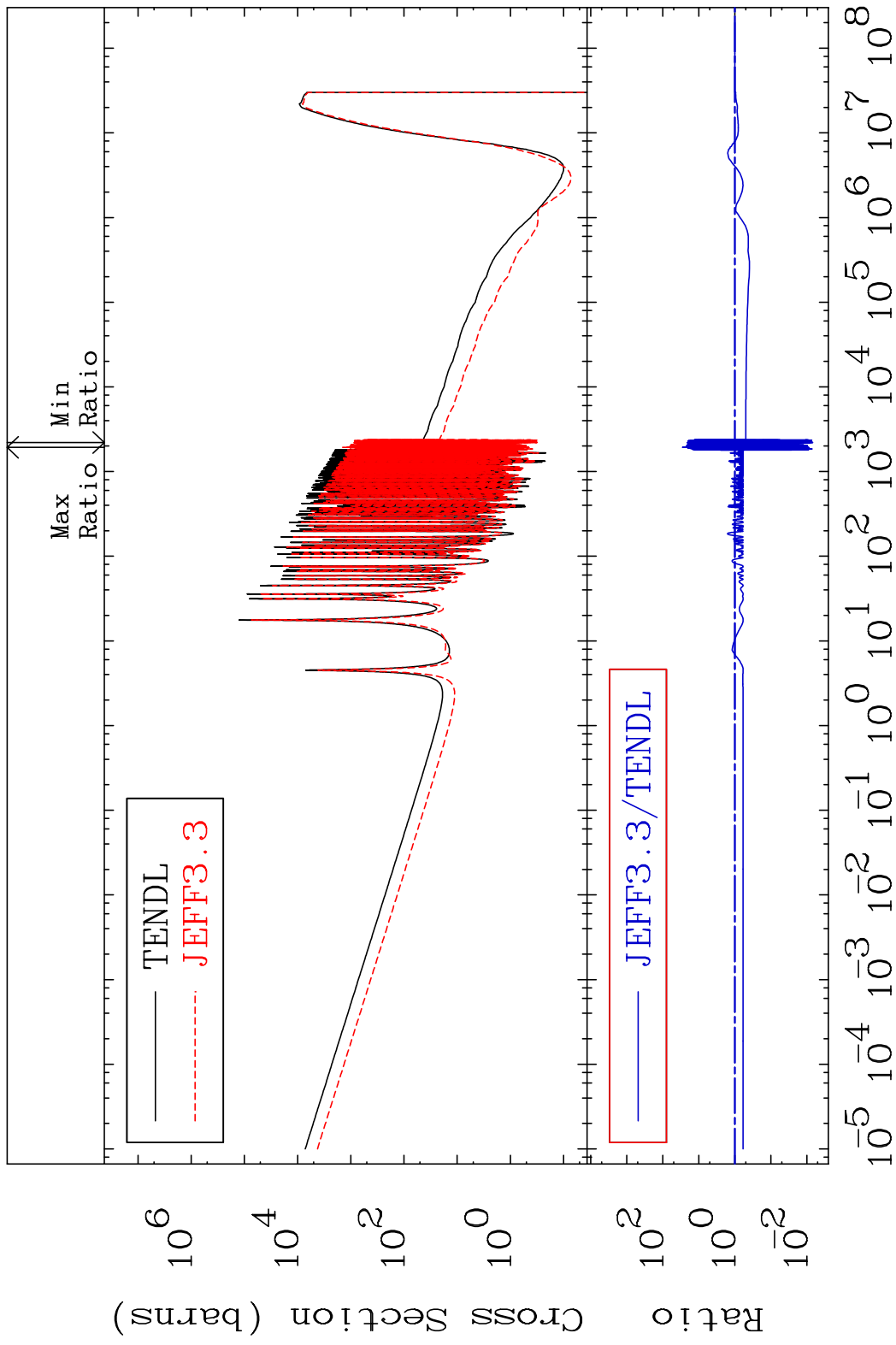
Incident Energy (eV)

70-Yb-173

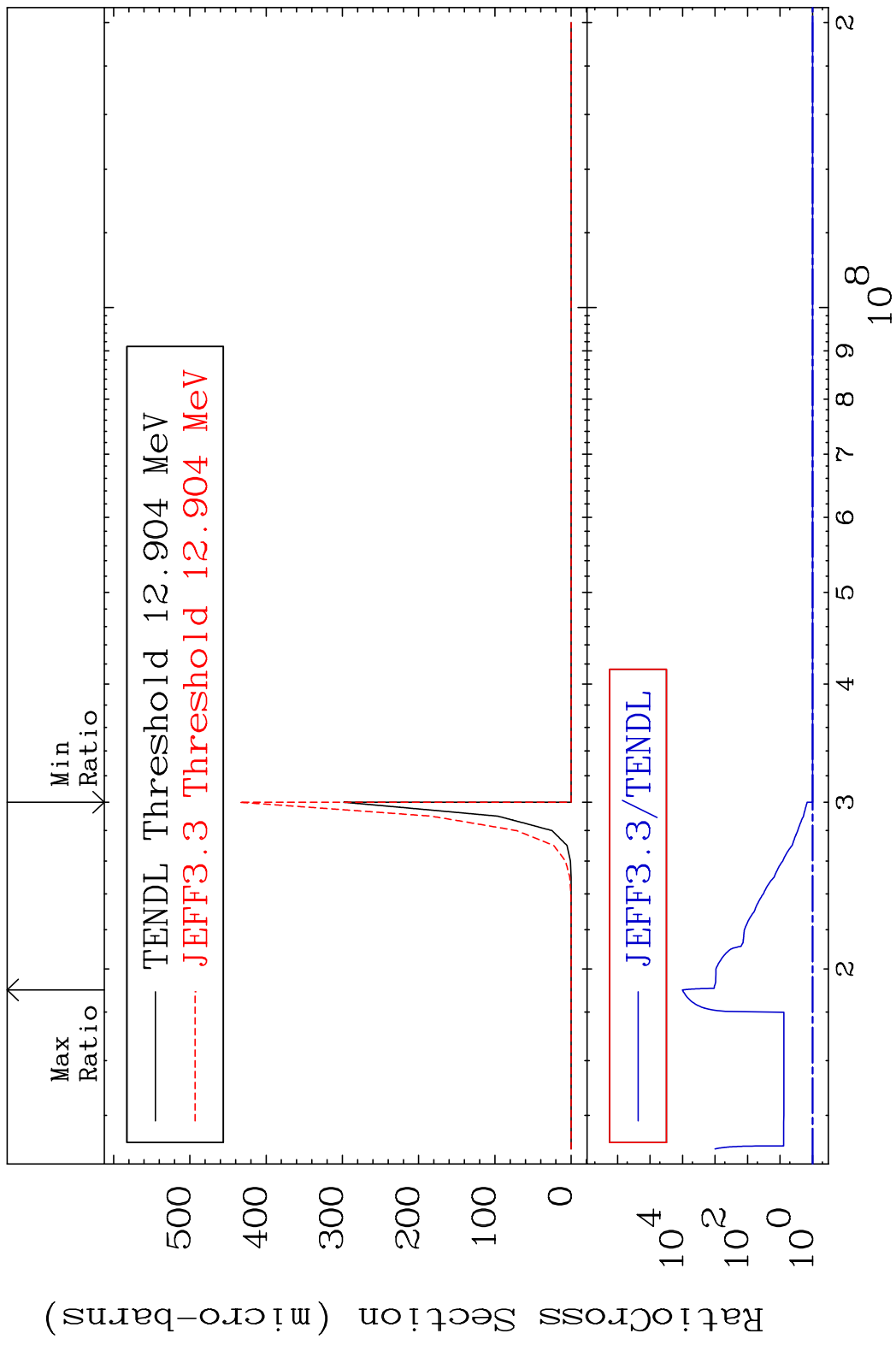
MAT 7040 Dpa inelastic (mt51-91) 70-Yb-173
 Cross Section -8.539 To 44.31 %

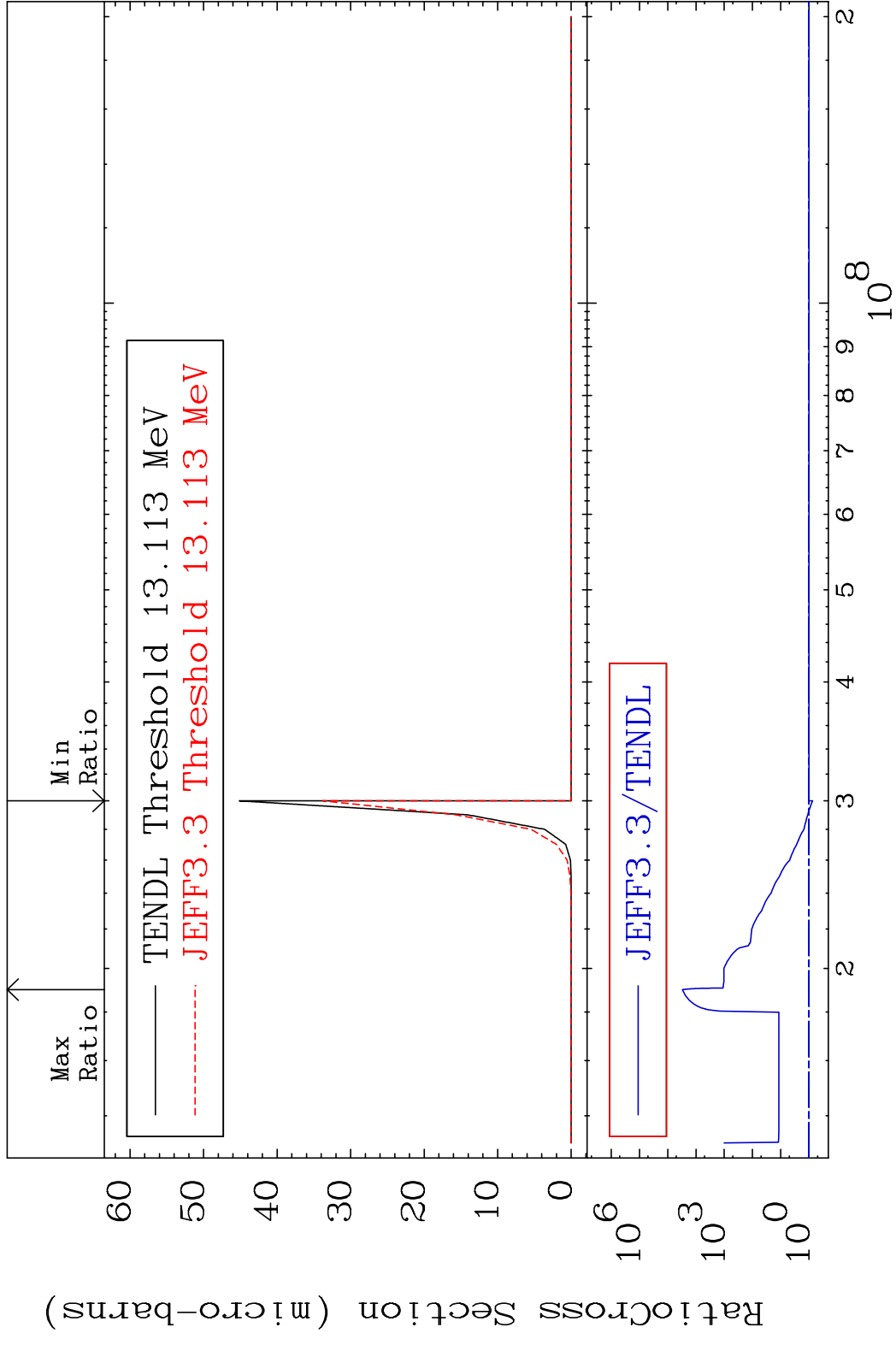


MAT 7040 Dpa disappearance (mt102 -120) 70-Yb-173
 Cross Section -99.30 To 2771. %



65 Incident Energy (eV) 70-Yb-173





MAT 7040 (n, n') p α :67-Ho-168g 70-Yb-173
 Radionuclide Production Cross Section, %

