

Program Complot
(Version 2021-1)

by

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U.S.A.

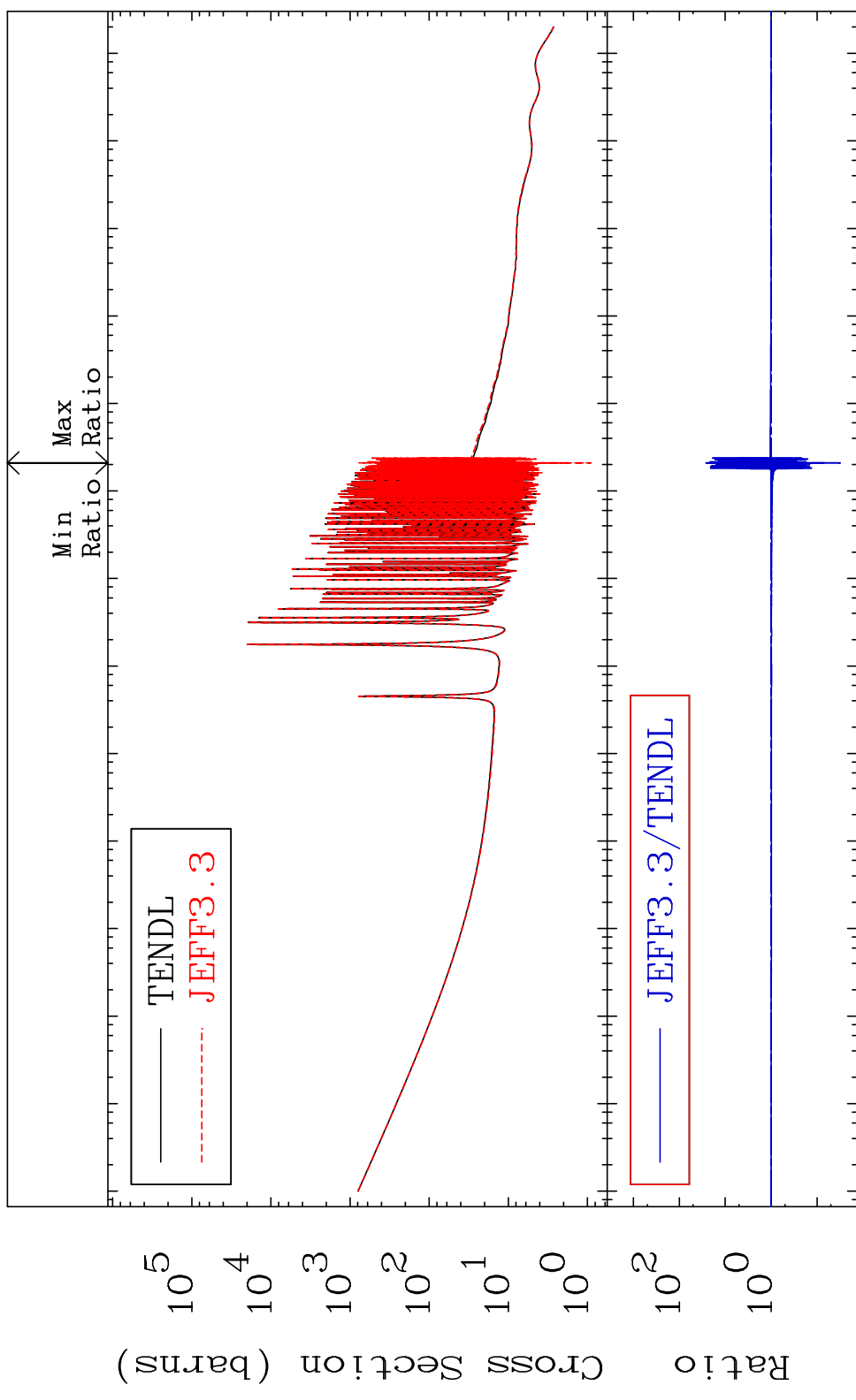
Tele: 925-443-1911

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7040

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



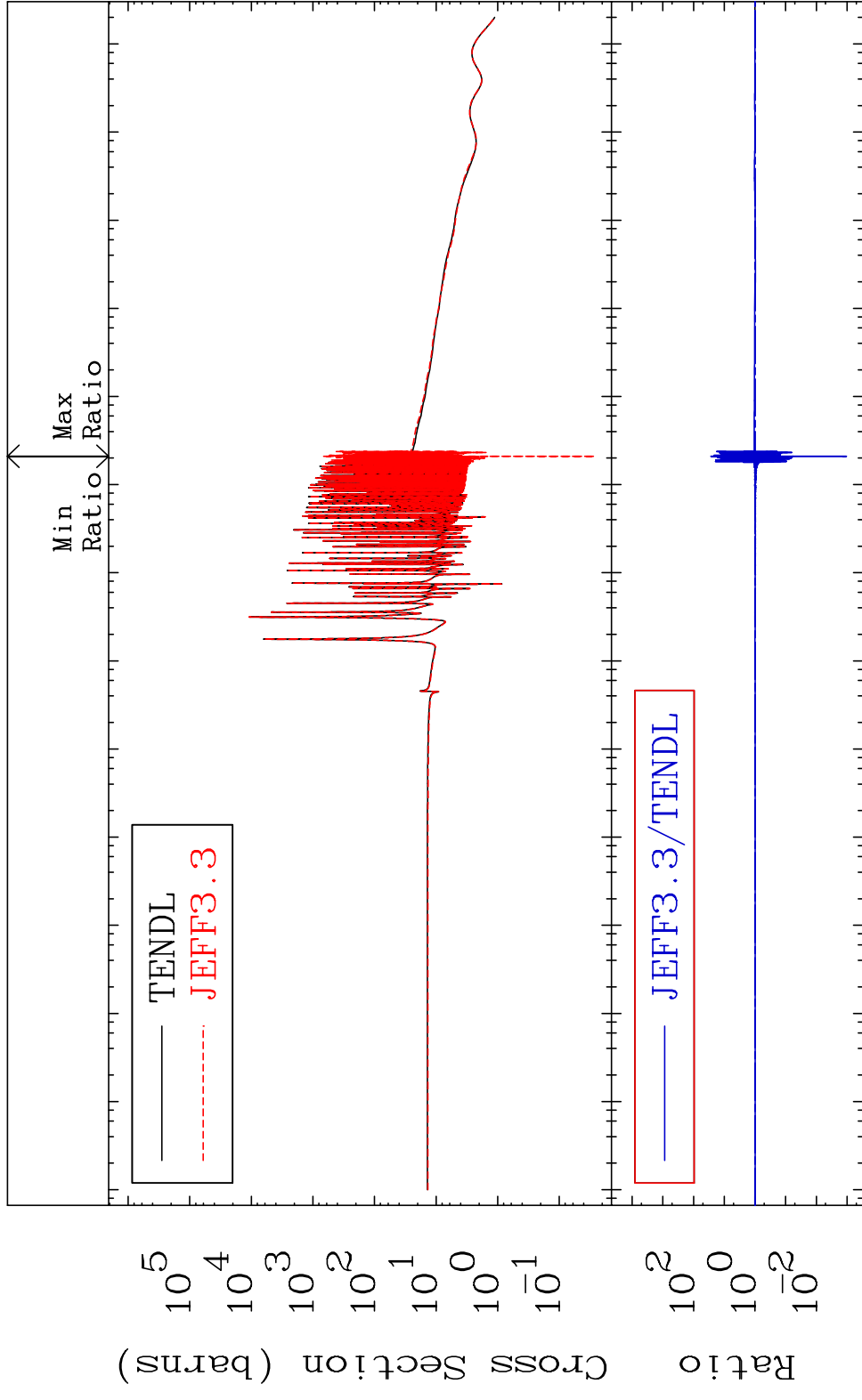
10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰

Incident Energy (eV) 70-Yb-173

MAT 7040

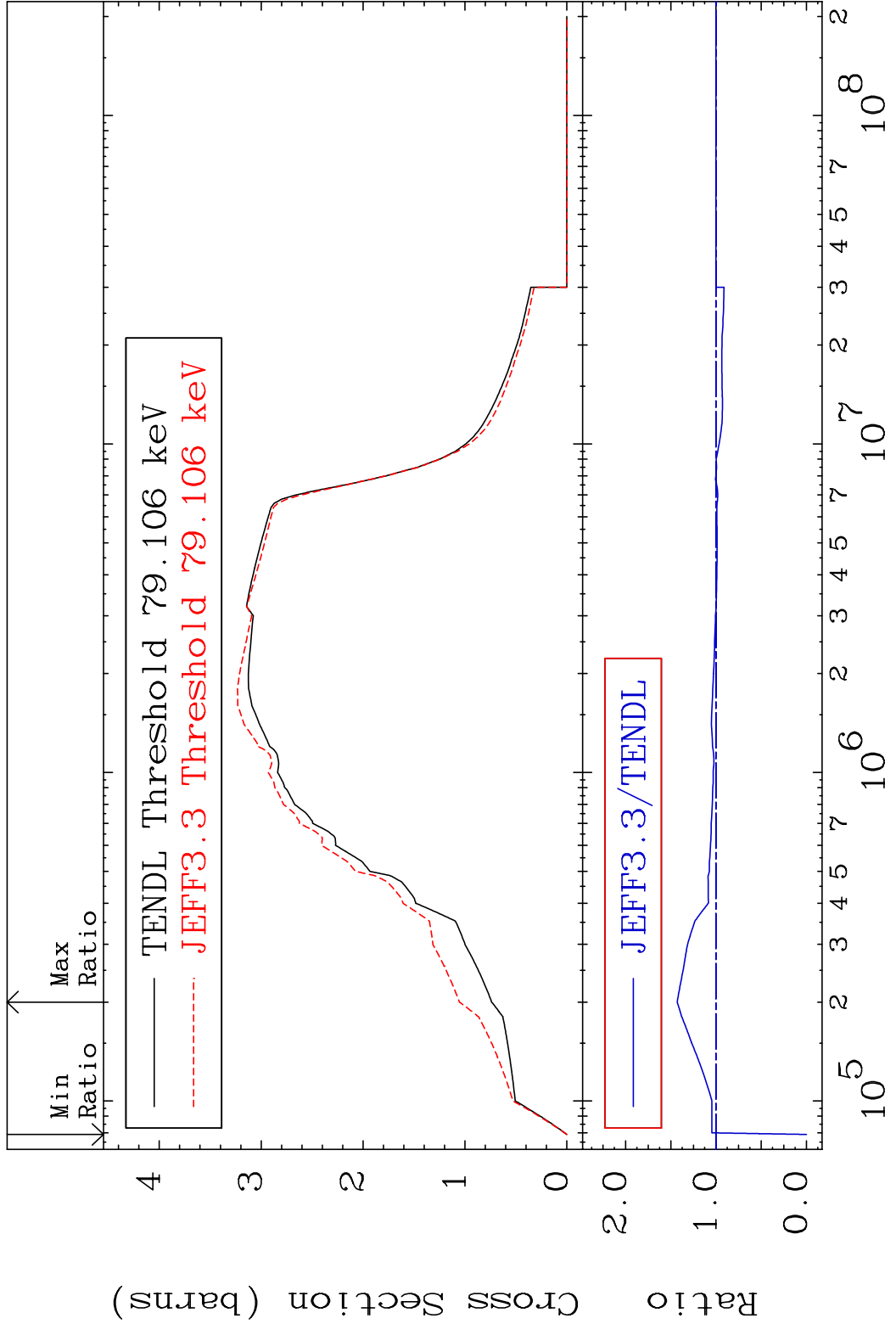
Elastic Cross Section -99.89 To 2660. %
70-Yb-173



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

2 70-Yb-173

MAT 7040 Inelastic 70-Yb-173
 Cross Section -100.0 To 42.95 %



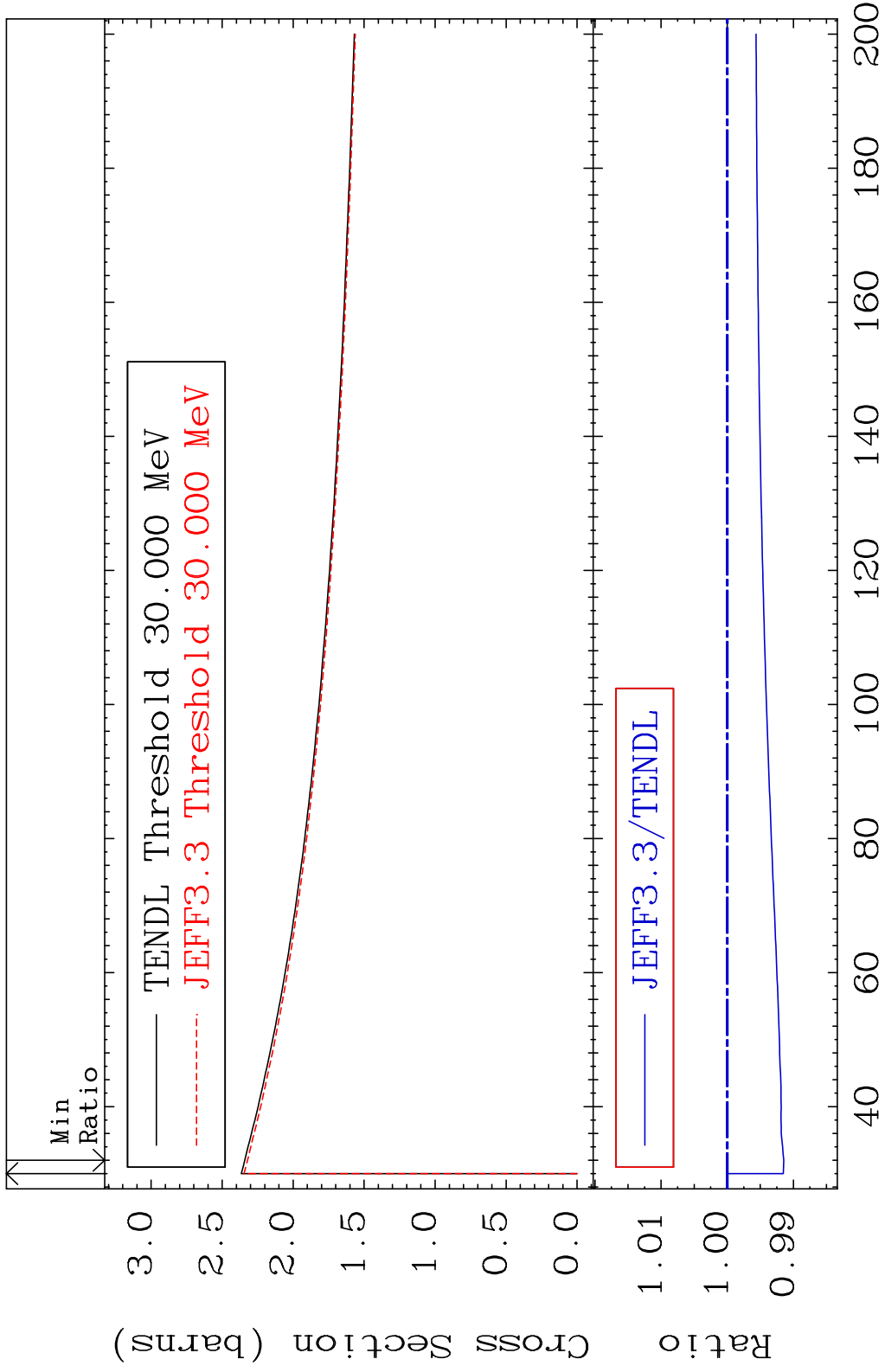
3 Incident Energy (eV) 70-Yb-173

MAT 7040

(n, remainder)

70-Yb-173

Cross Section -0.854 To 0.000 %

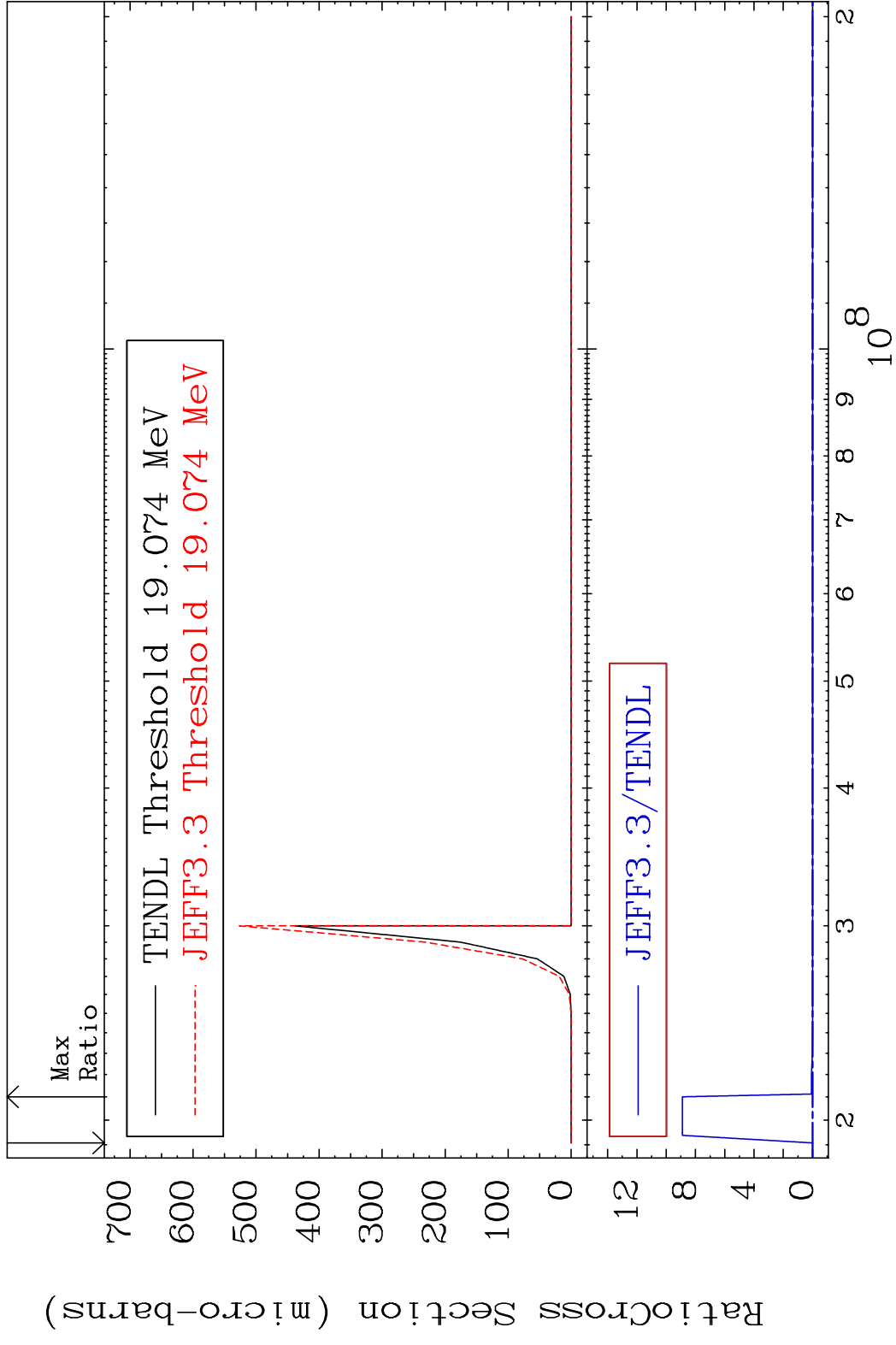


4

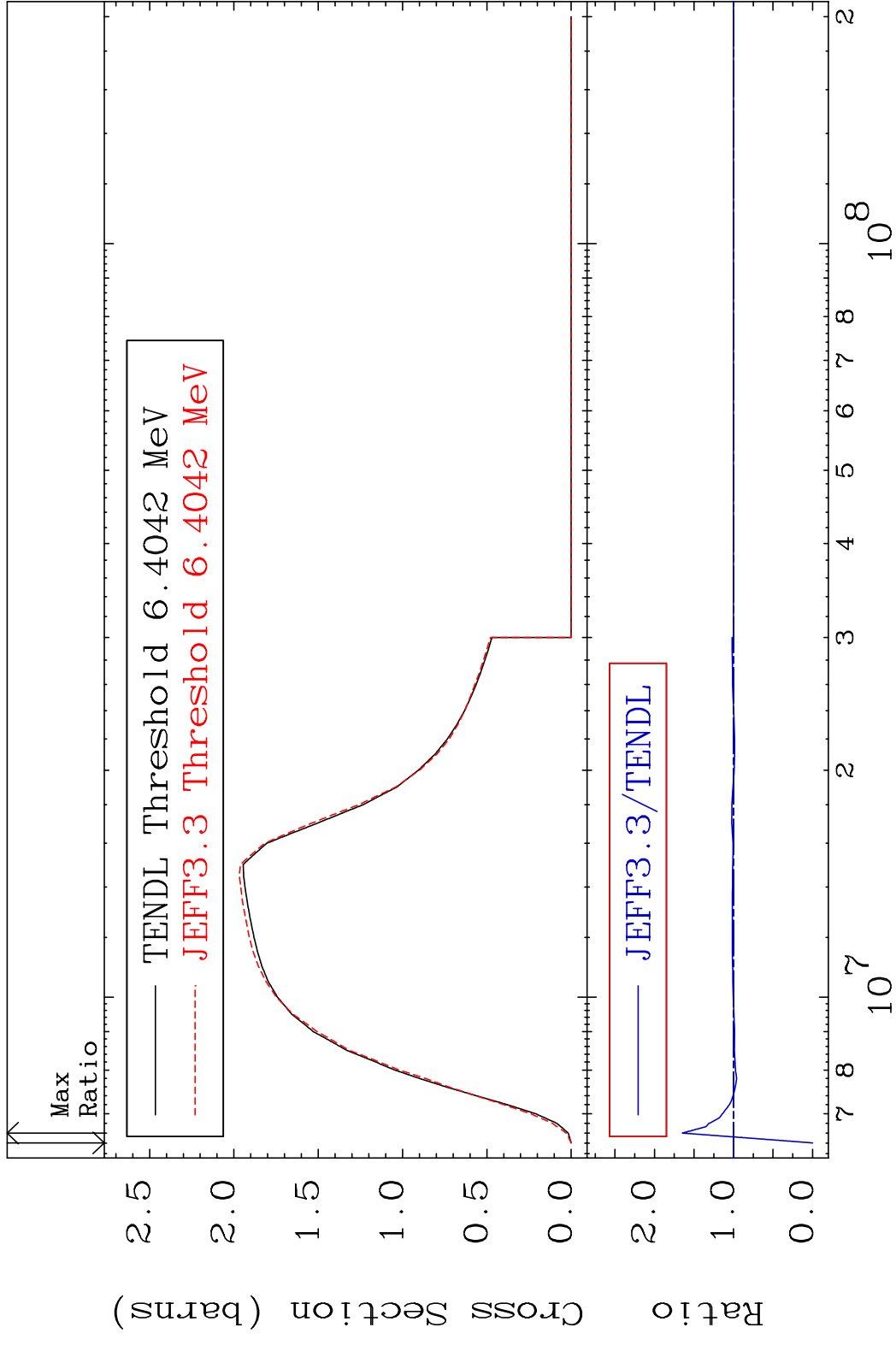
Incident Energy (MeV)

70-Yb-173

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



MAT 7040 (n,2n) 70-Yb-173
 Cross Section -100.0 To 64.72 %

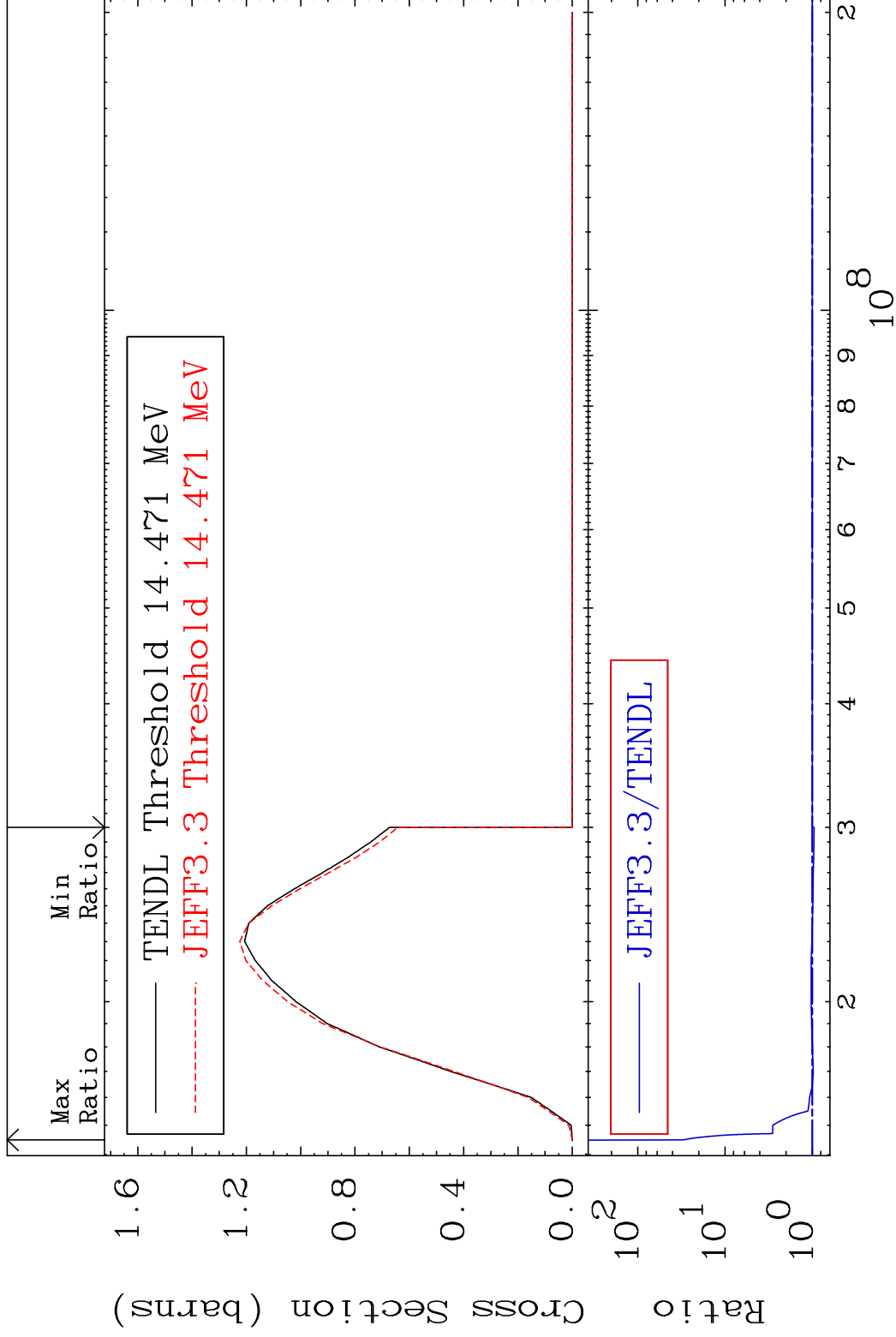


MAT 7040

(n,3n)

70-Yb-173

Cross Section -4.625 To 2878. %



7

Incident Energy (eV)

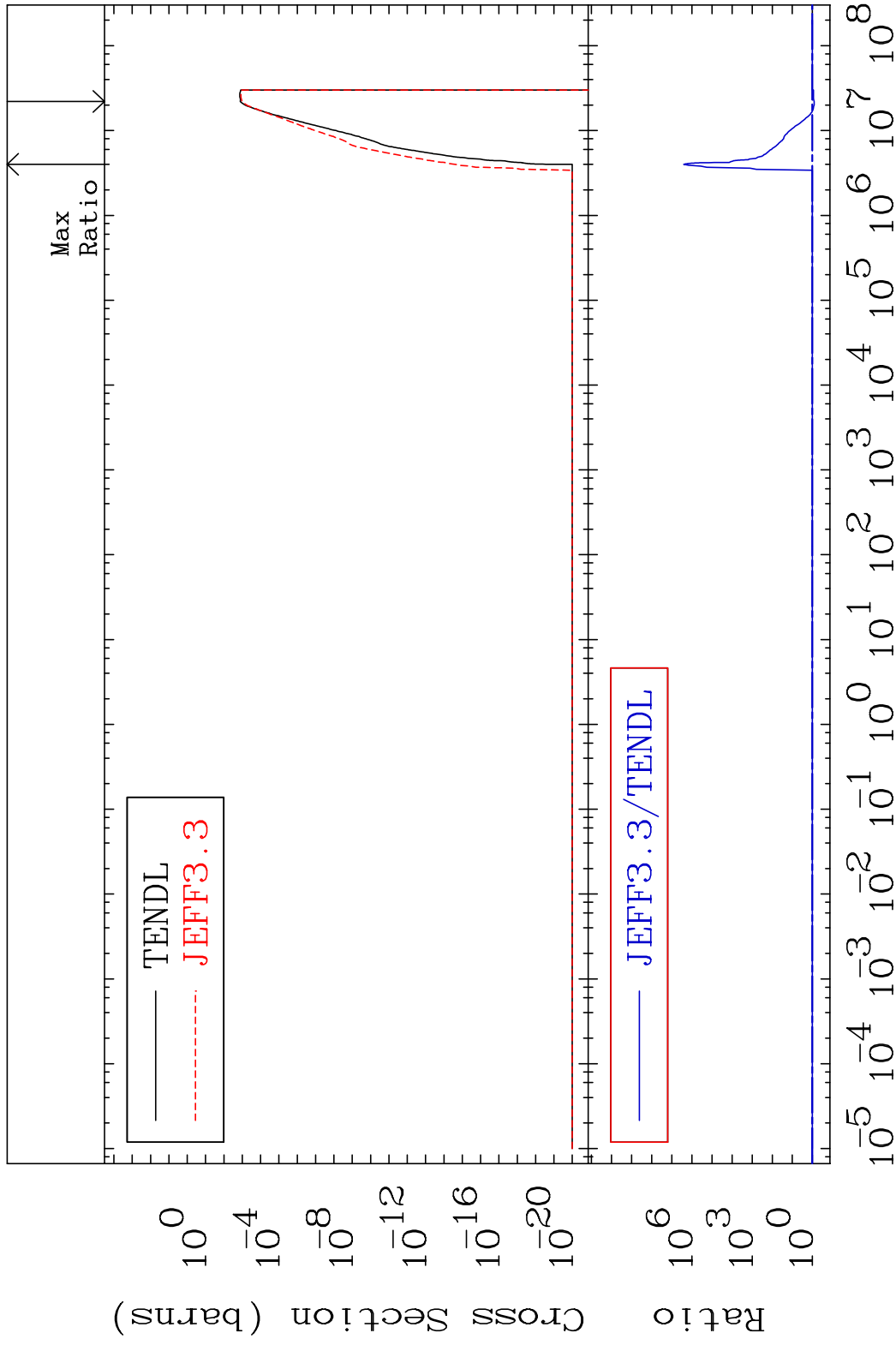
70-Yb-173

MAT 7040

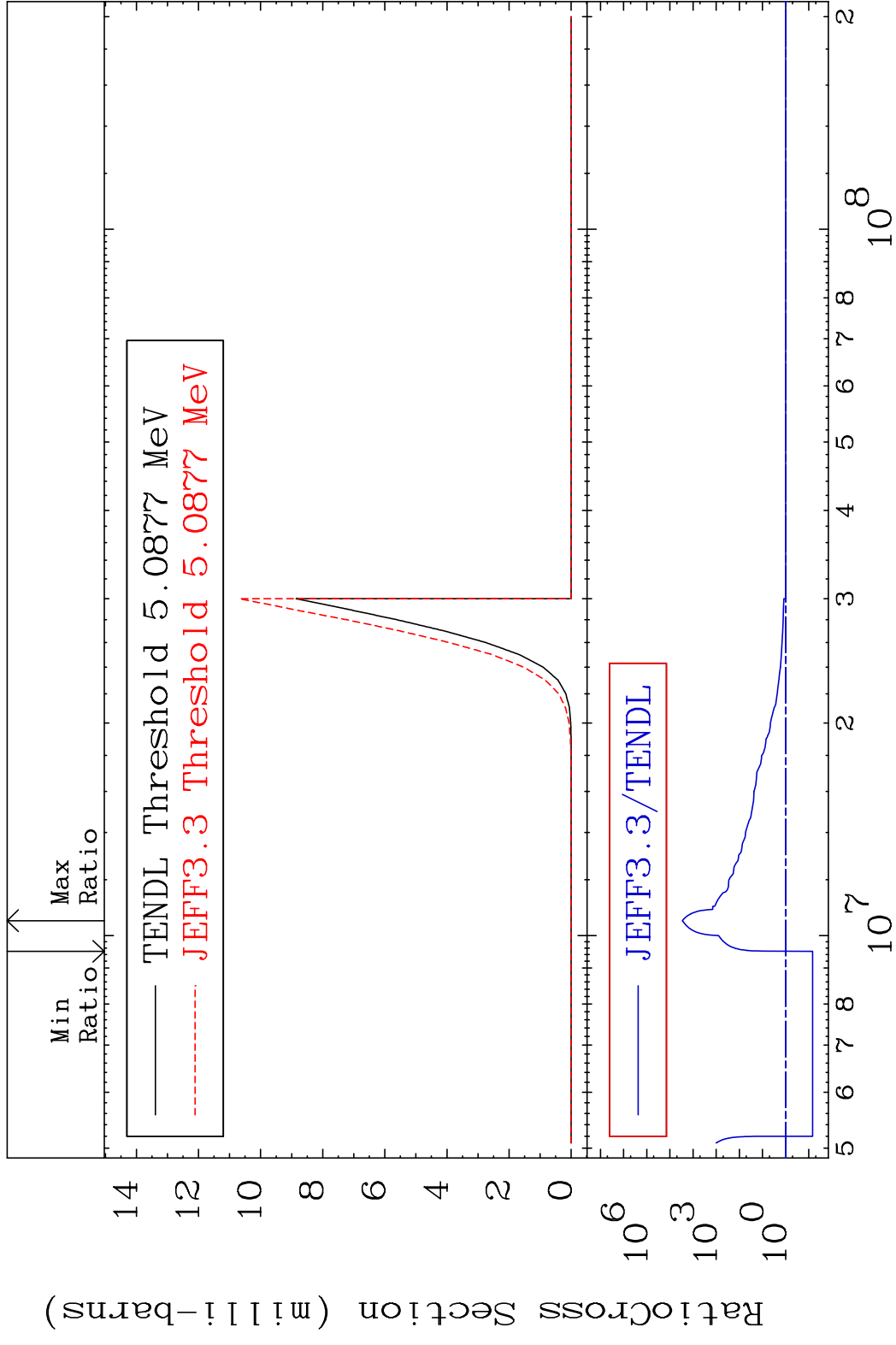
(n, n') α

70-Yb-173

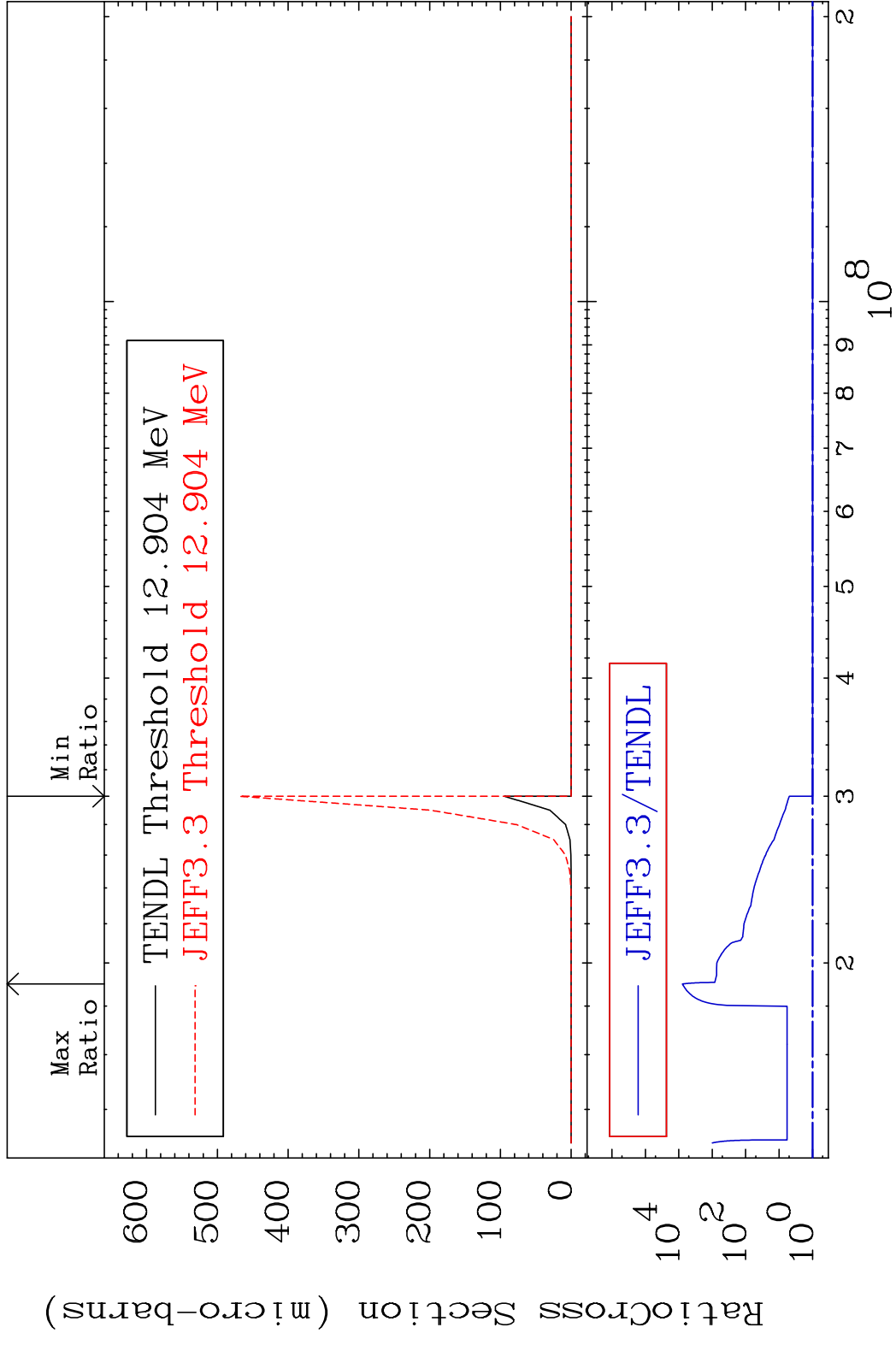
Cross Section -17.72 To 9999. %



MAT 7040 (n,2n) α 70-Yb-173
 Cross Section -93.10 To 9999. %

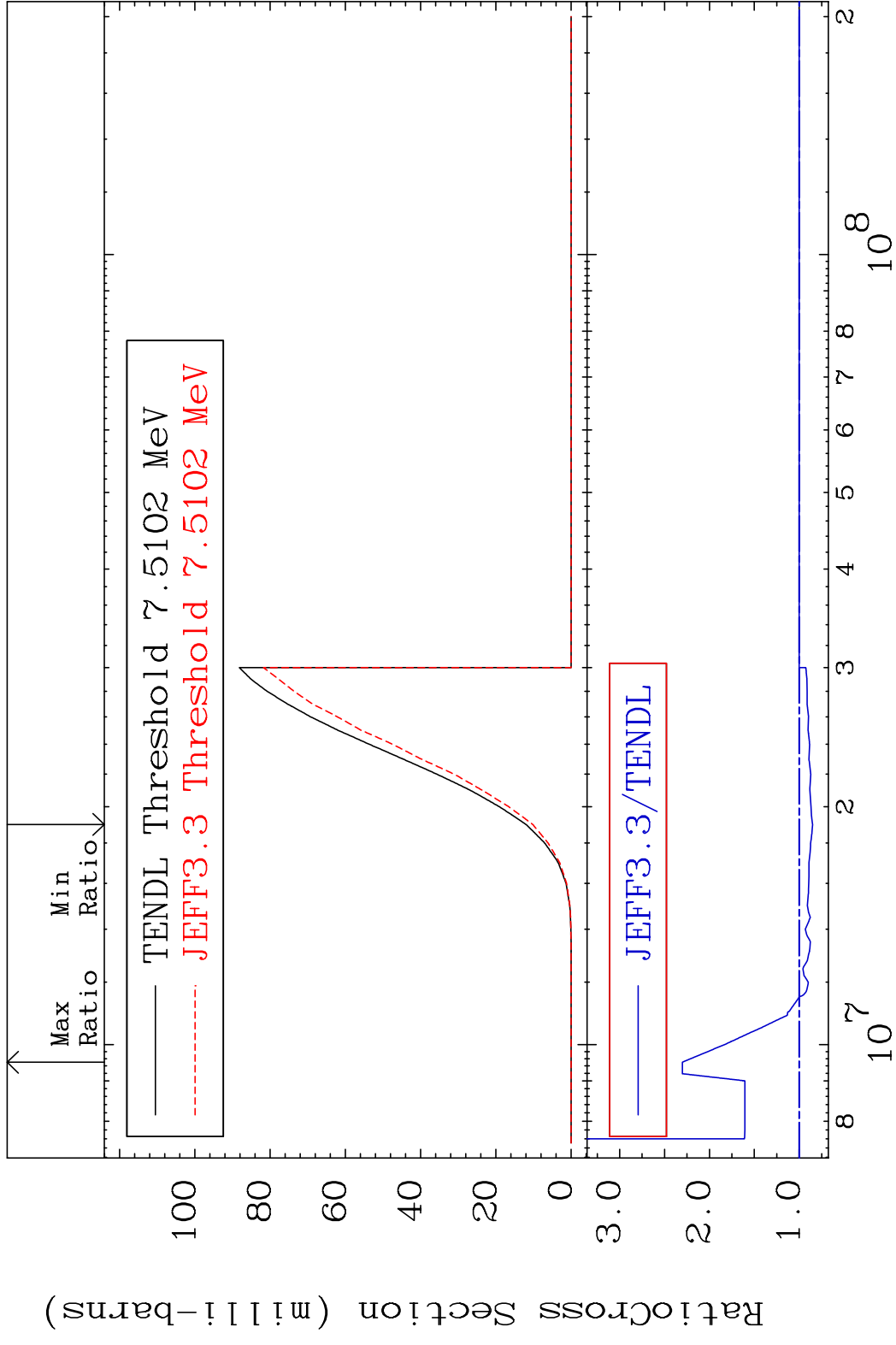


MAT 7040 (n,3n) α 70-Yb-173
 Cross Section 0.000 To 9999. %



10 Incident Energy (eV) 70-Yb-173

MAT 7040 (n, n') p 70-Yb-173
 Cross Section -14.85 To 130.2 %



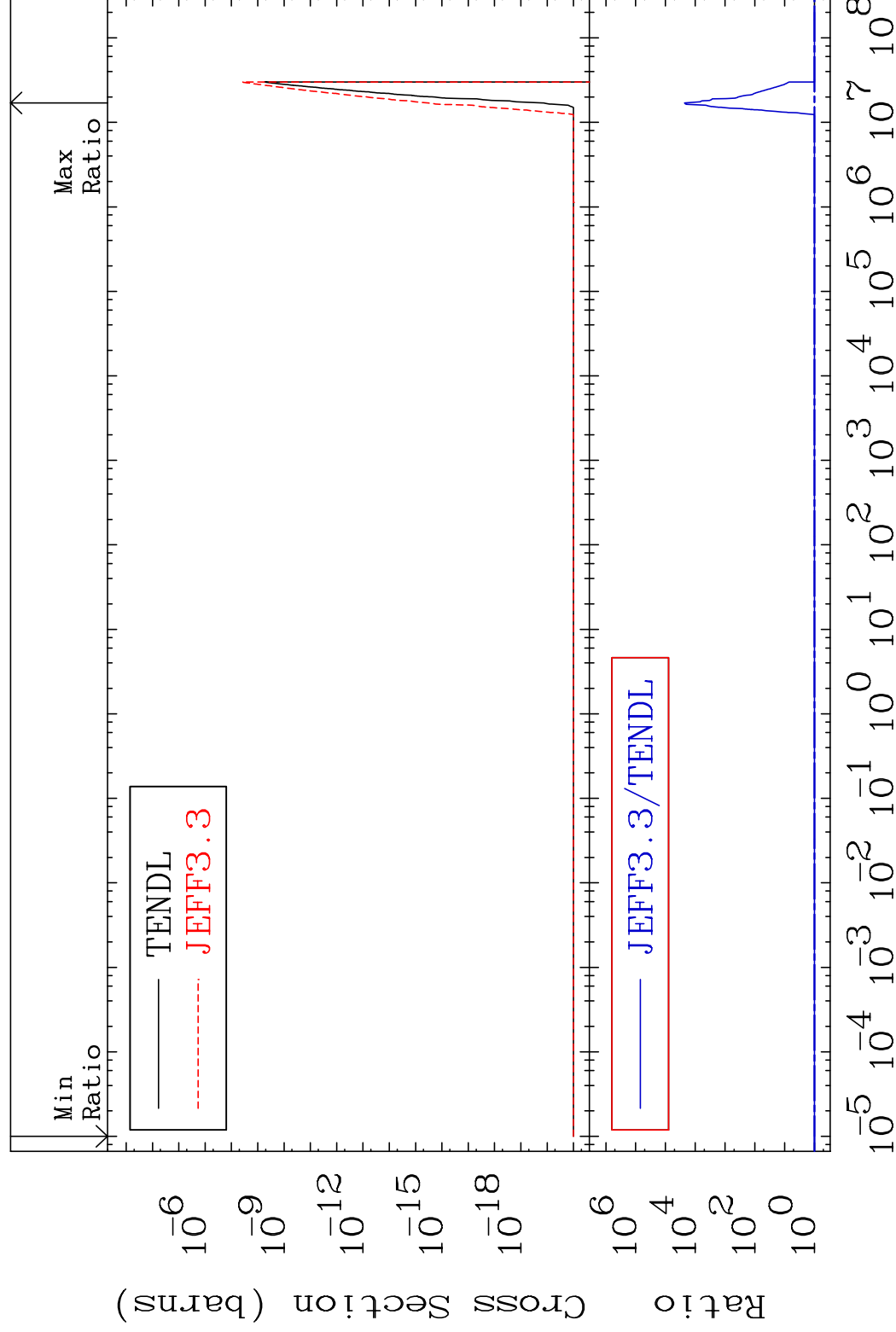
MAT 7040

(n, n') 2α

70-Yb-173

Cross Section 0.000

To 9999. %

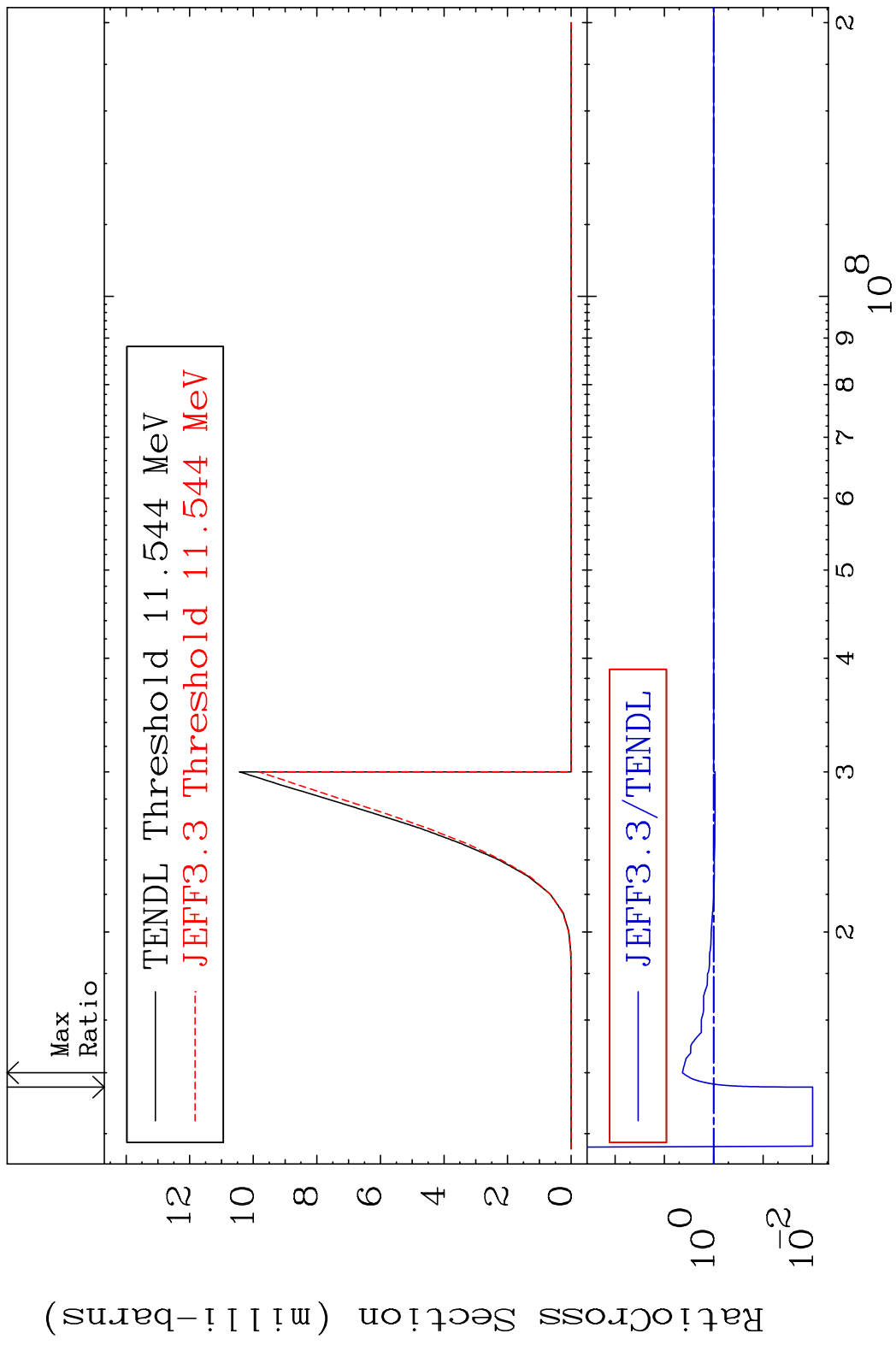


12

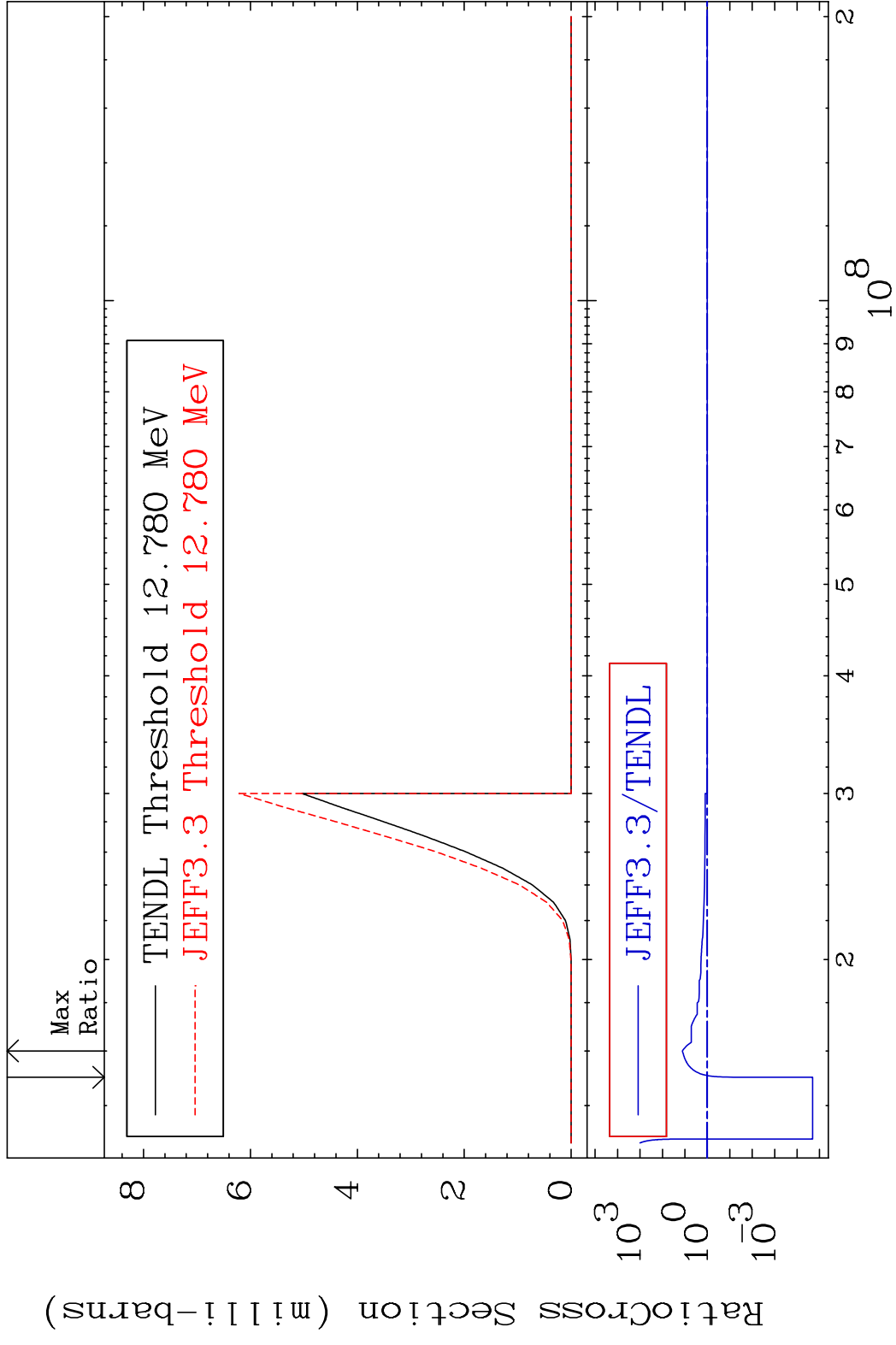
Incident Energy (eV)

70-Yb-173

MAT 7040 (n, n') d 70-Yb-173
 Cross Section -99.01 To 332.4 %



MAT 7040 (n, n') t 70-Yb-173
 Cross Section -100.0 To 1196. %

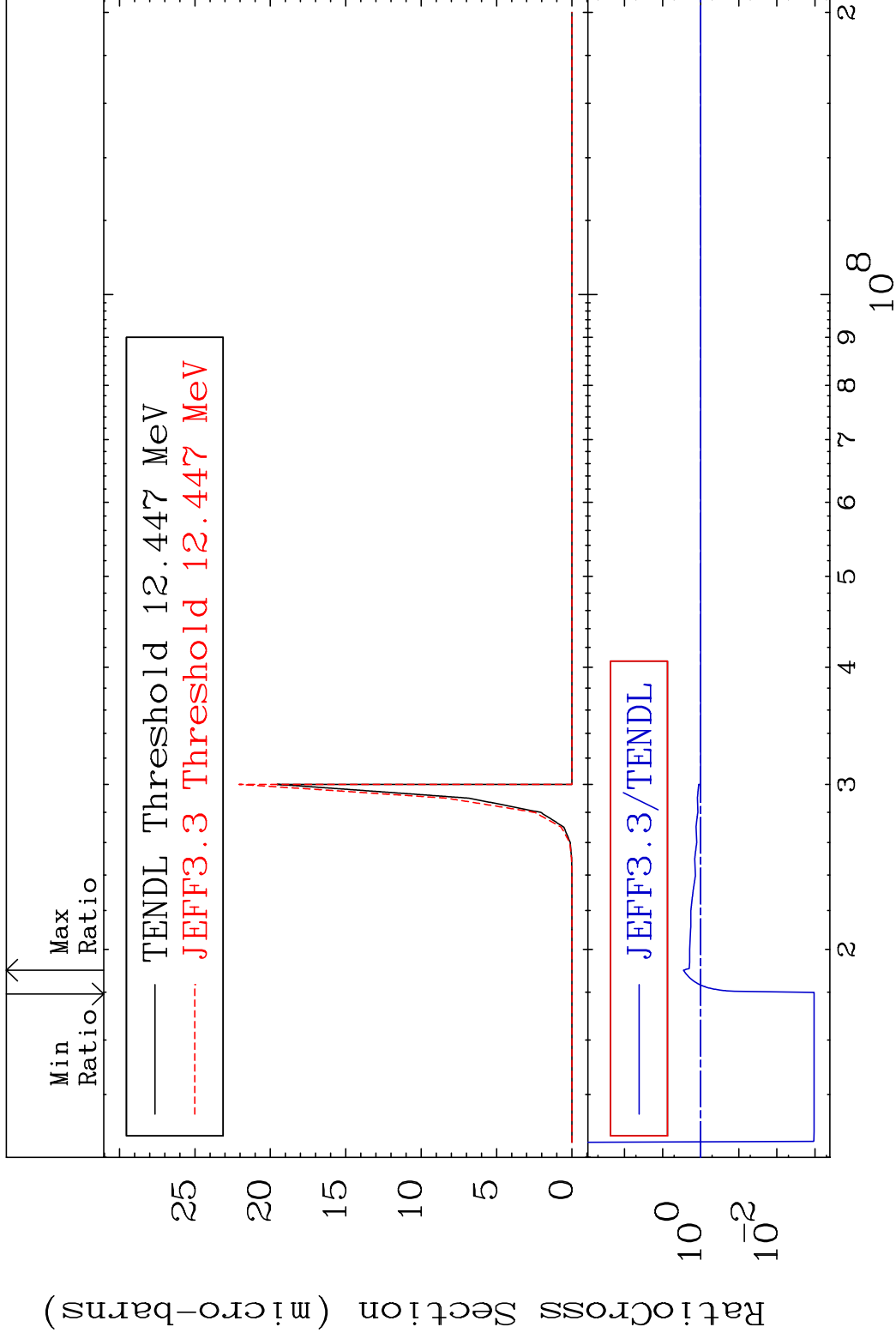


MAT 7040

(n,n') He-3

70-Yb-173

Cross Section -99.89 To 183.4 %



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Incident Energy (eV)

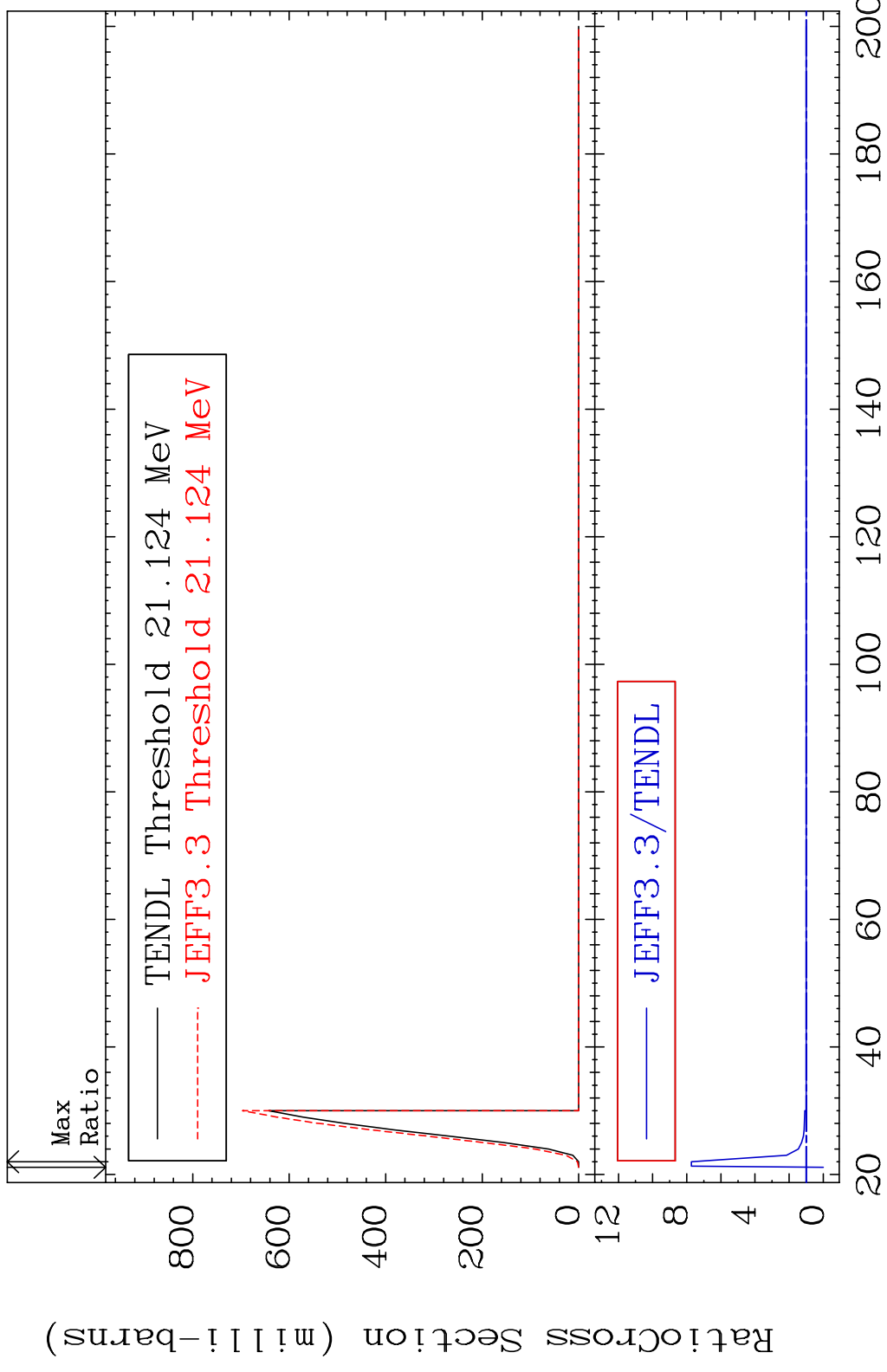
70-Yb-173

MAT 7040

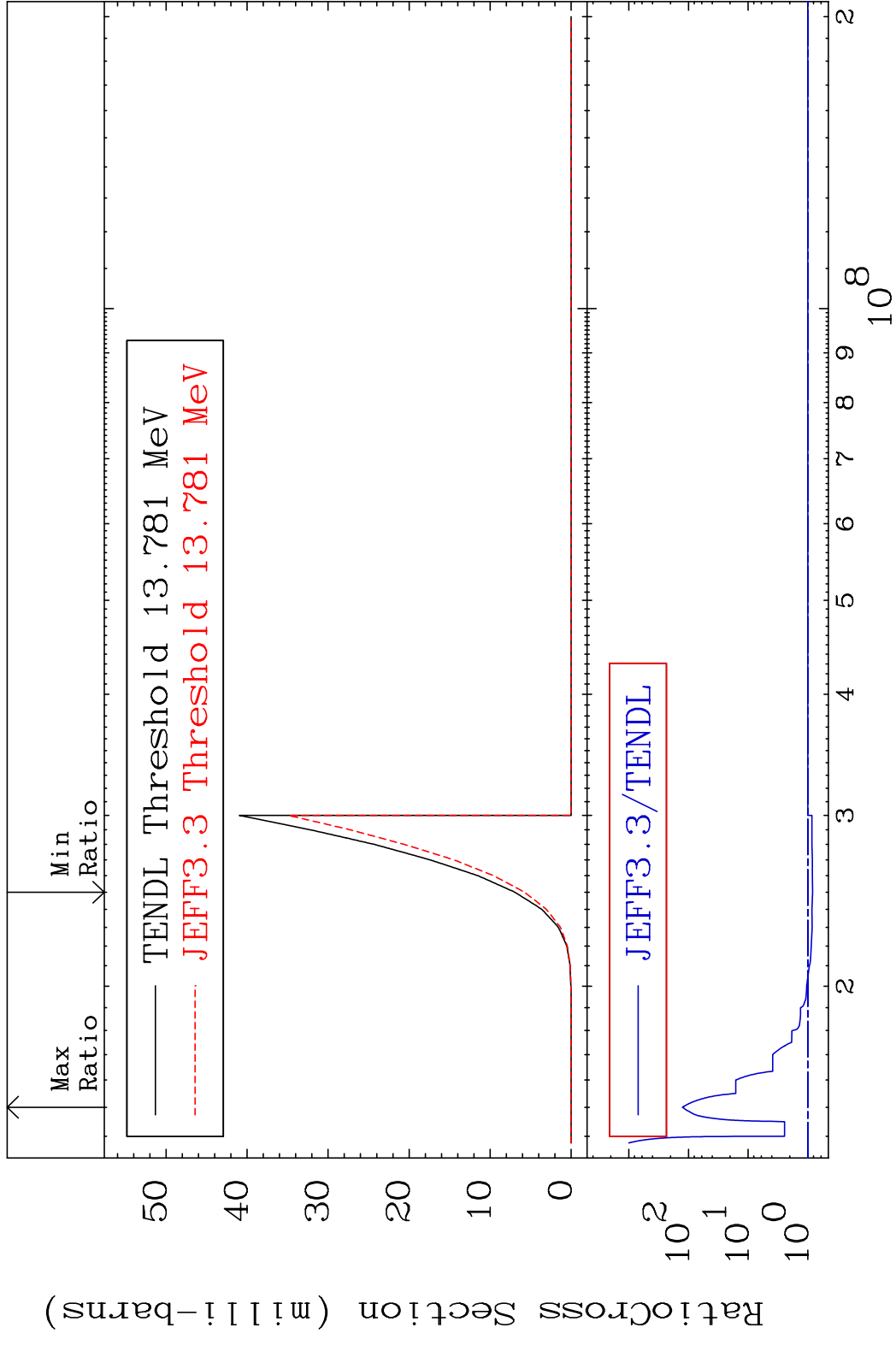
(n, 4n)

70-Yb-173

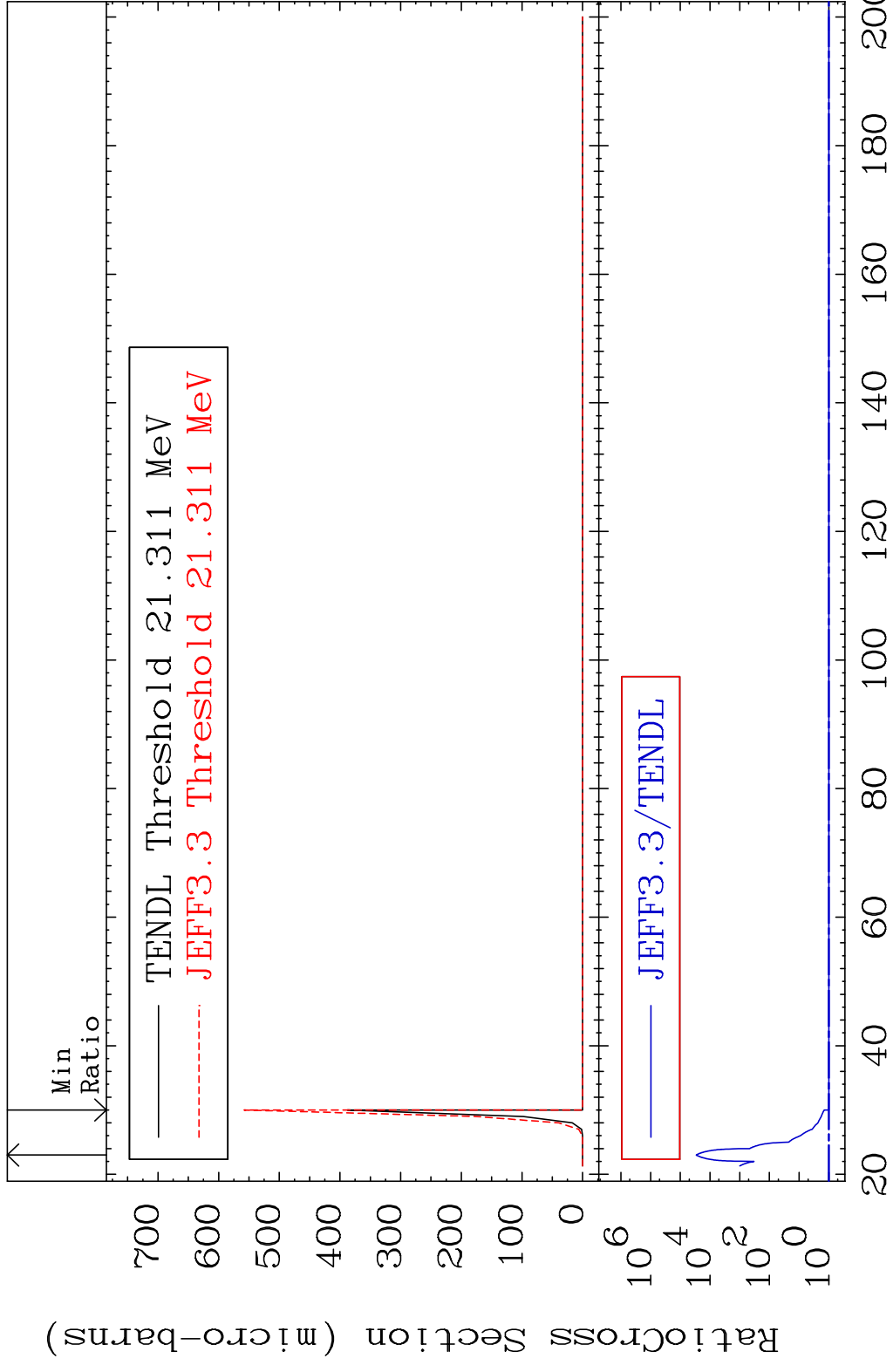
Cross Section -100.0 To 673.2 %



MAT 7040 (n,2n) p 70-Yb-173
 Cross Section -17.08 To 9999. %



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



MAT 7040

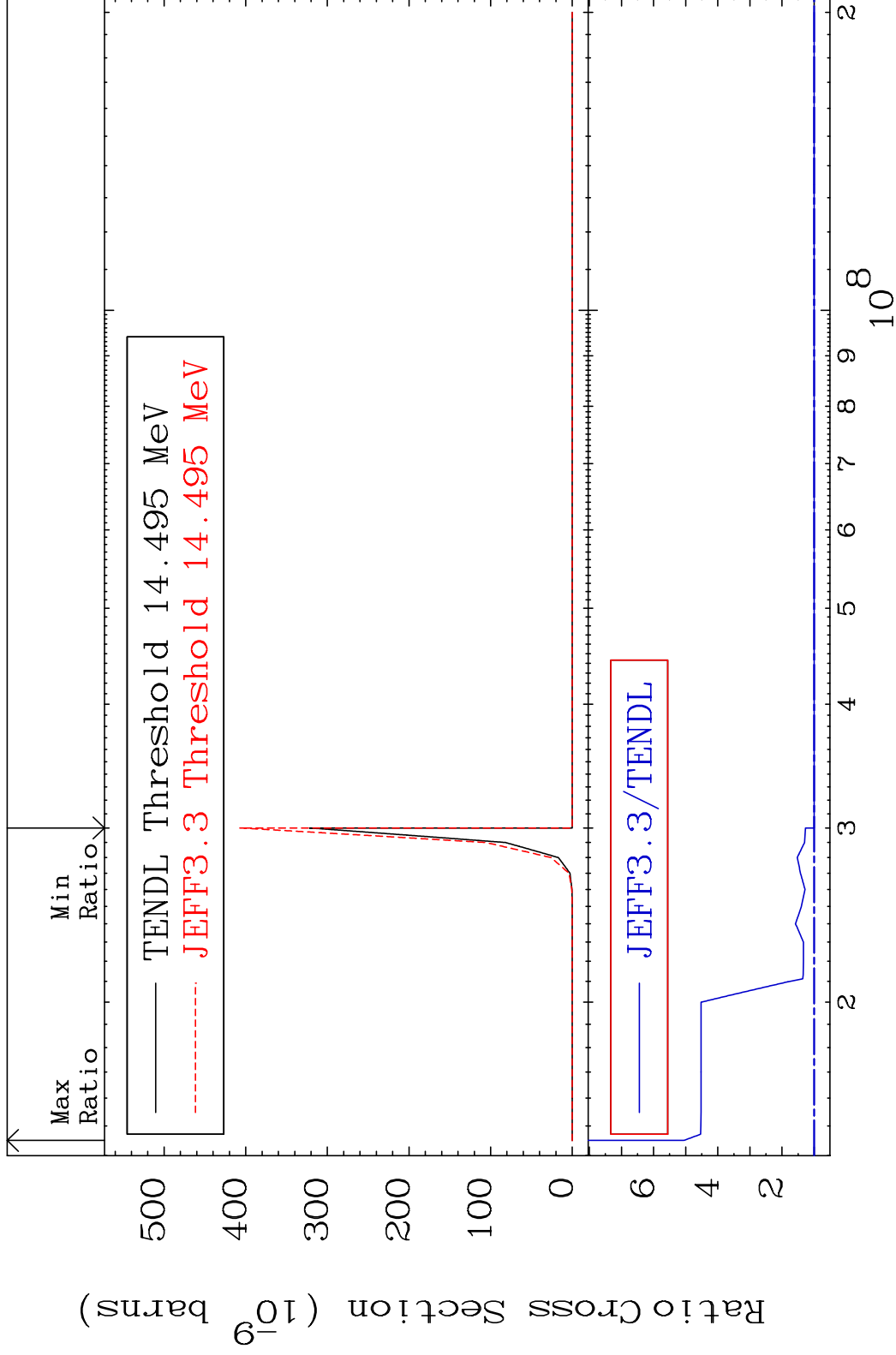
(n,2n) p

70-Yb-173

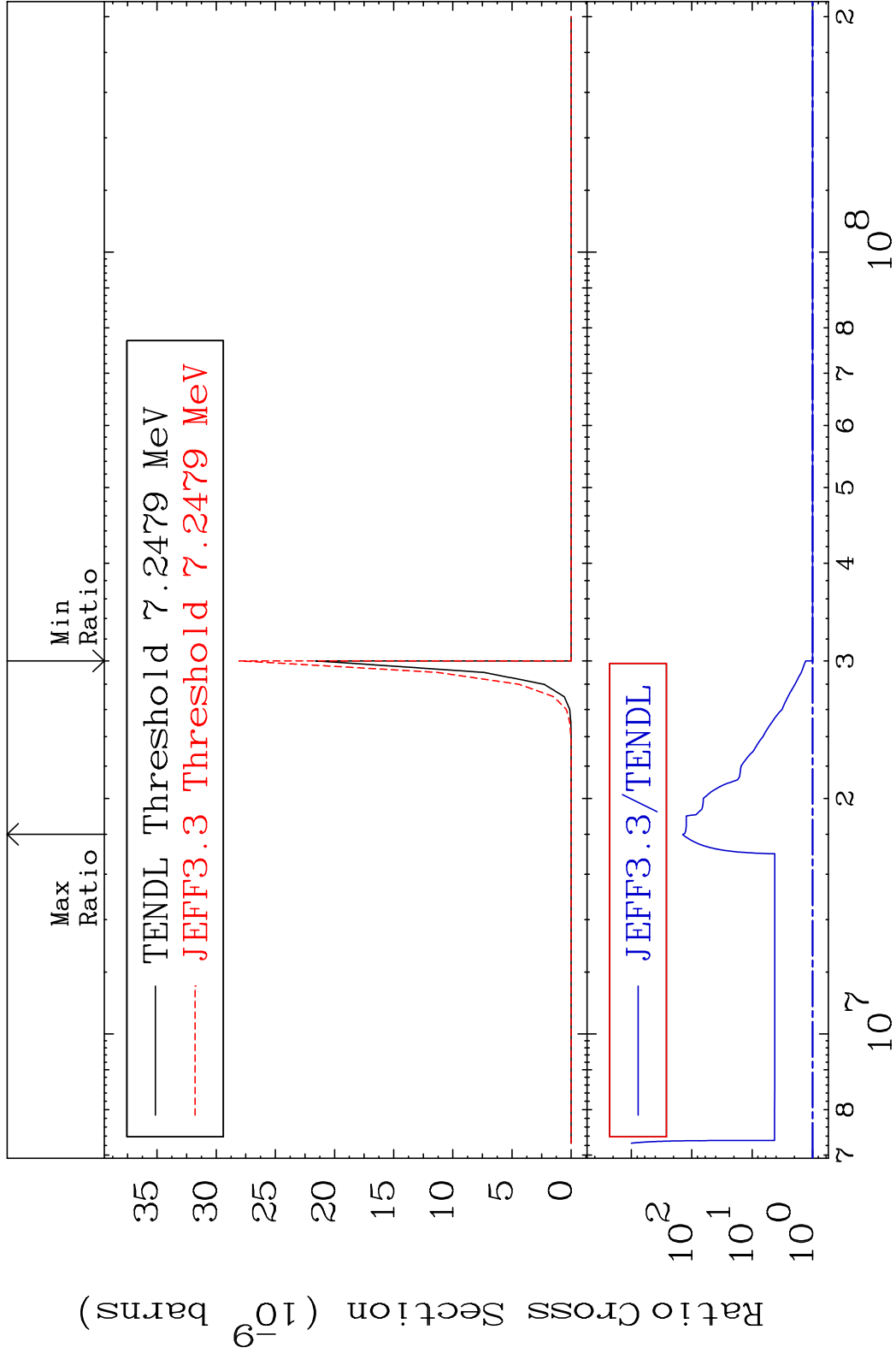
Cross Section

0.000

To 406.3 %

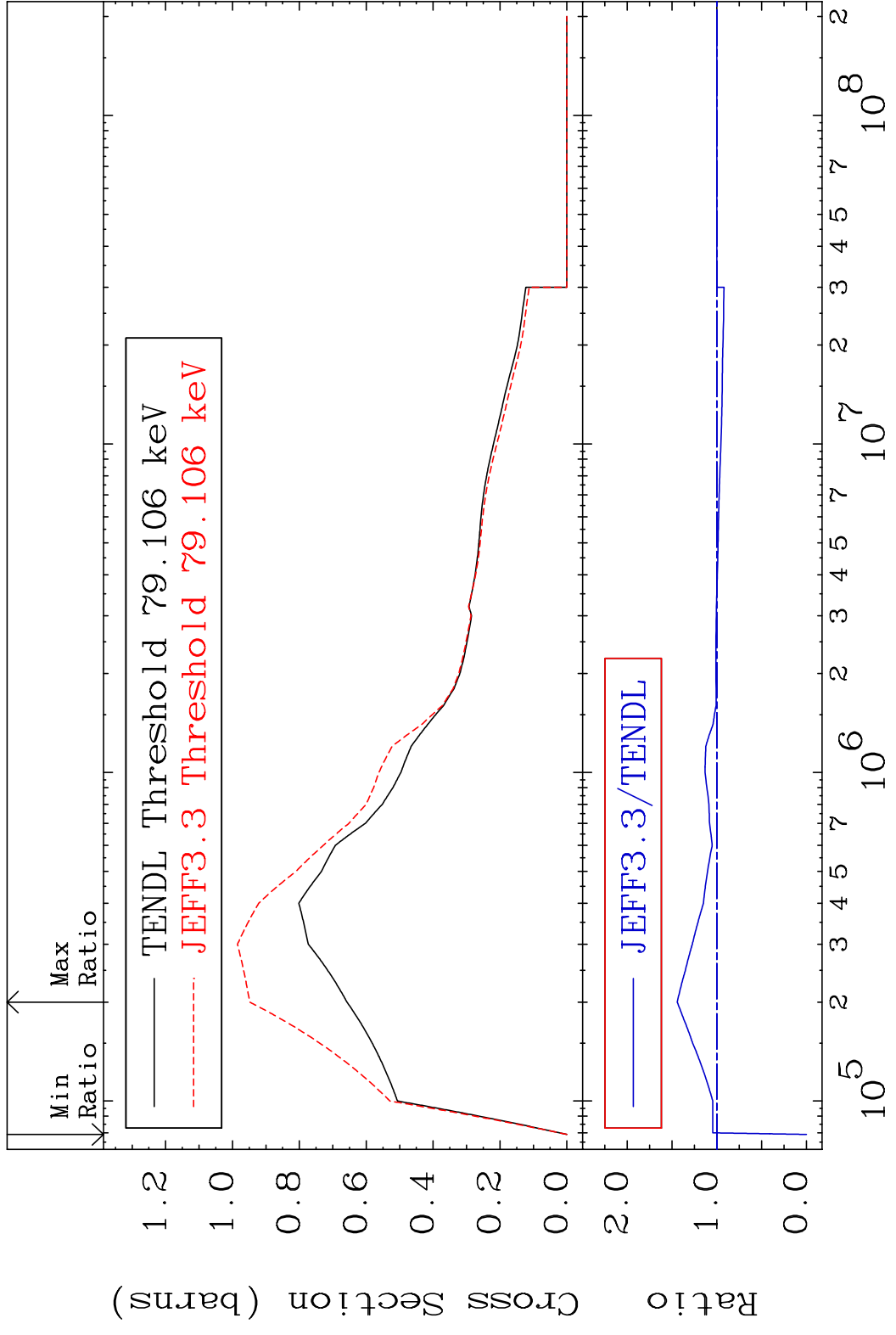


MAT 7040 (n, n') p α 70-Yb-173
 Cross Section 0.000 To 9999. %

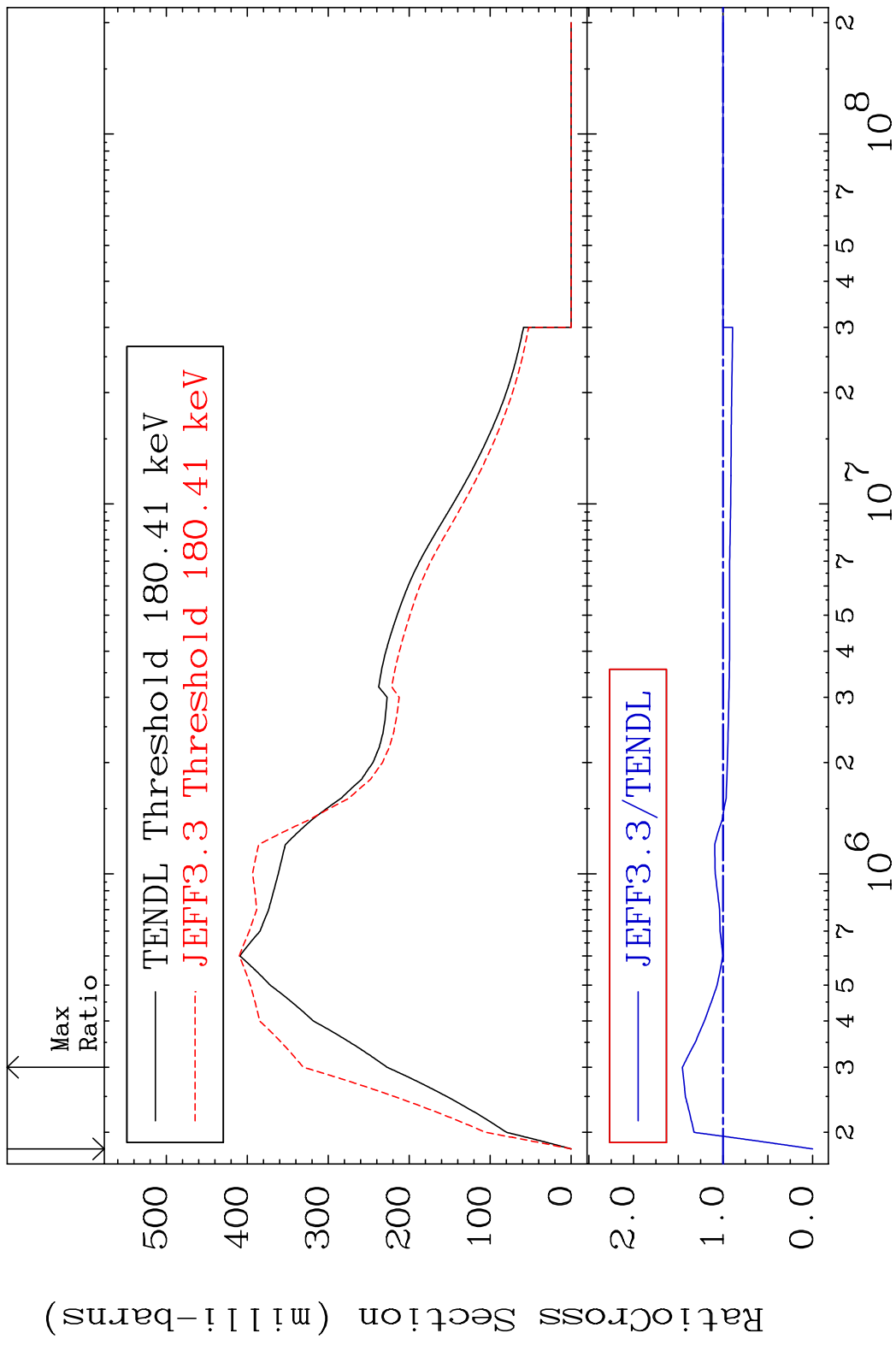


20 Incident Energy (eV) 70-Yb-173

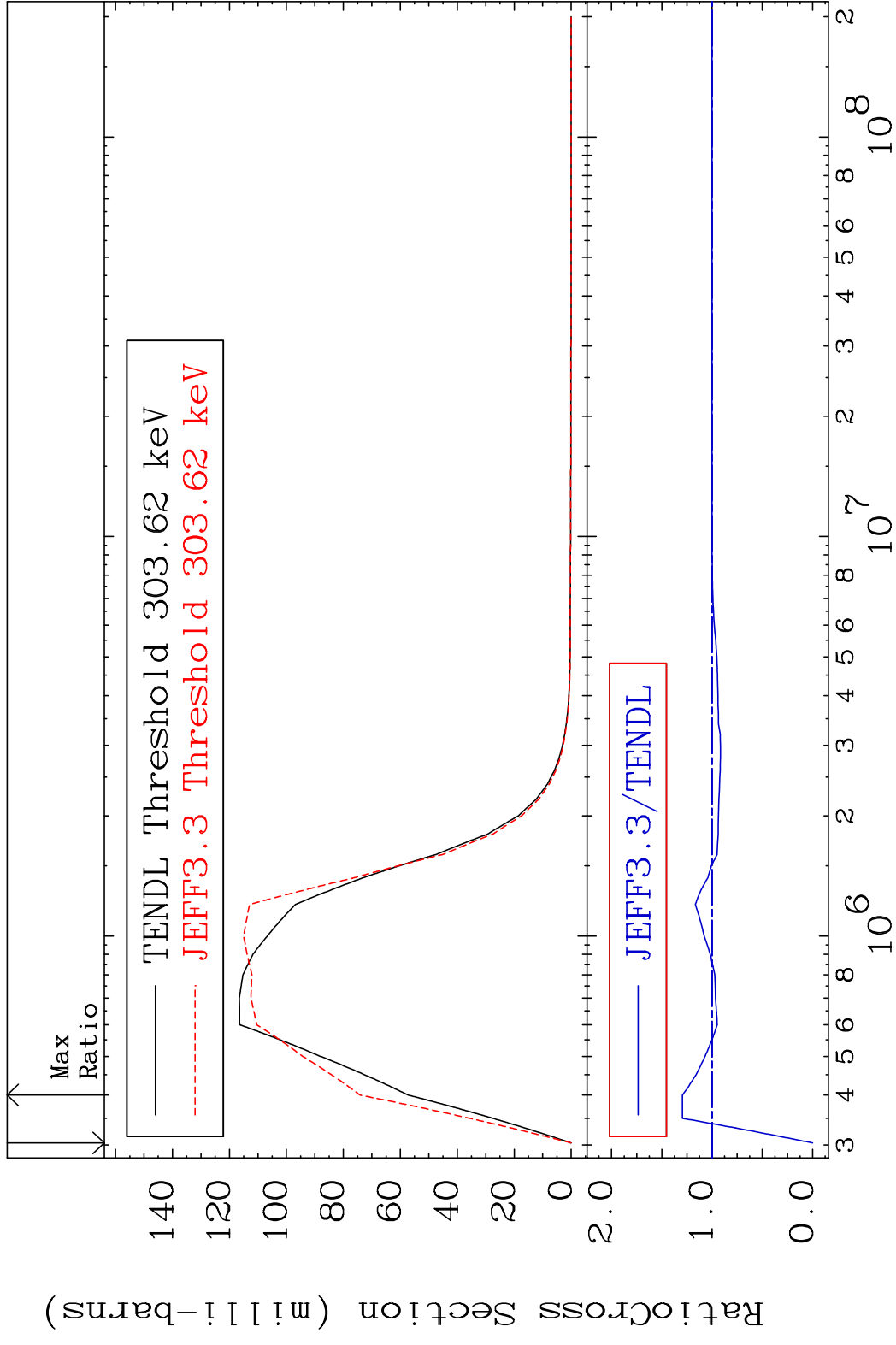
MAT 7040 MT= 51 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 44.22 %



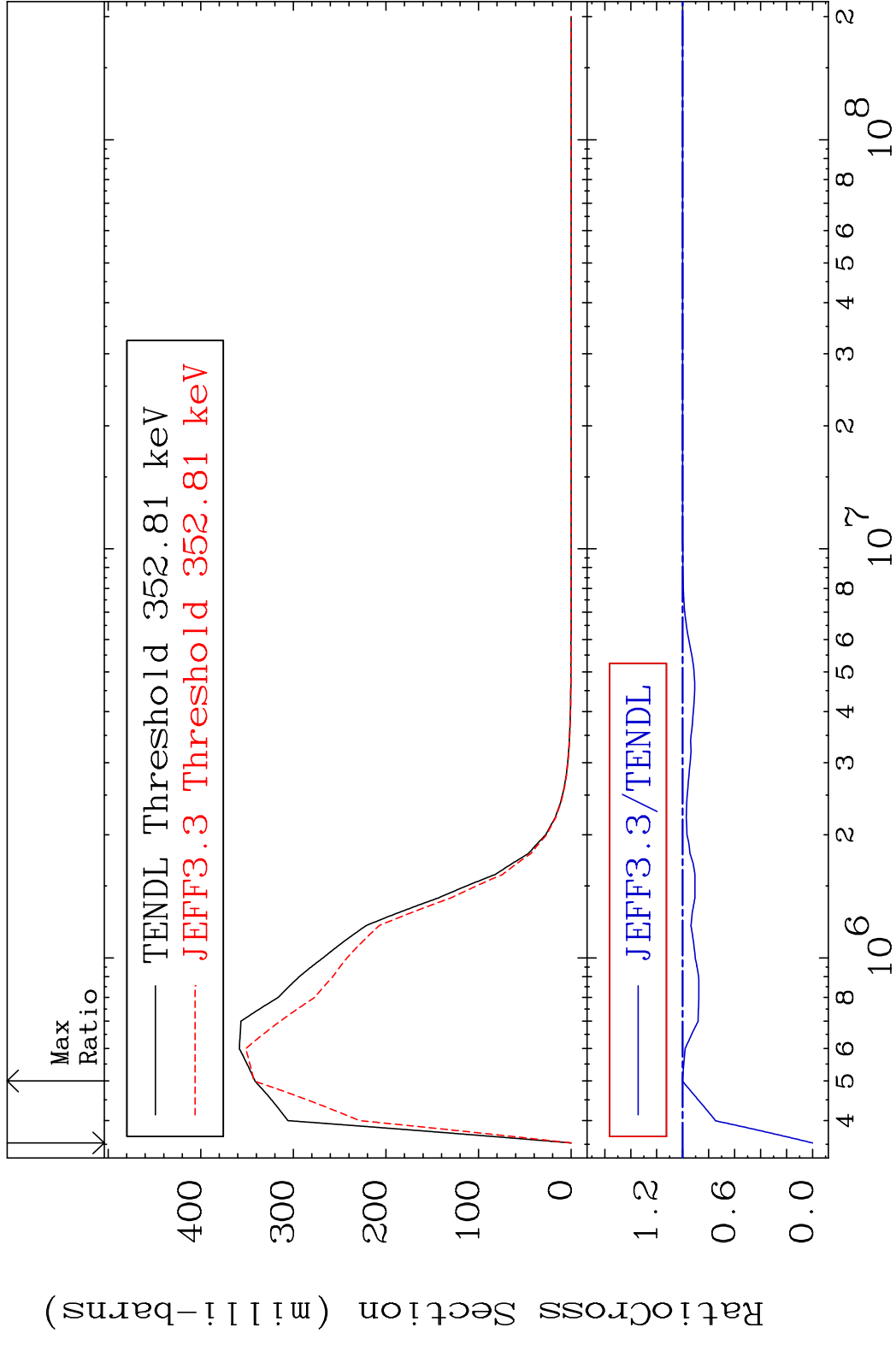
MAT 7040 MT= 52 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 45.47 %



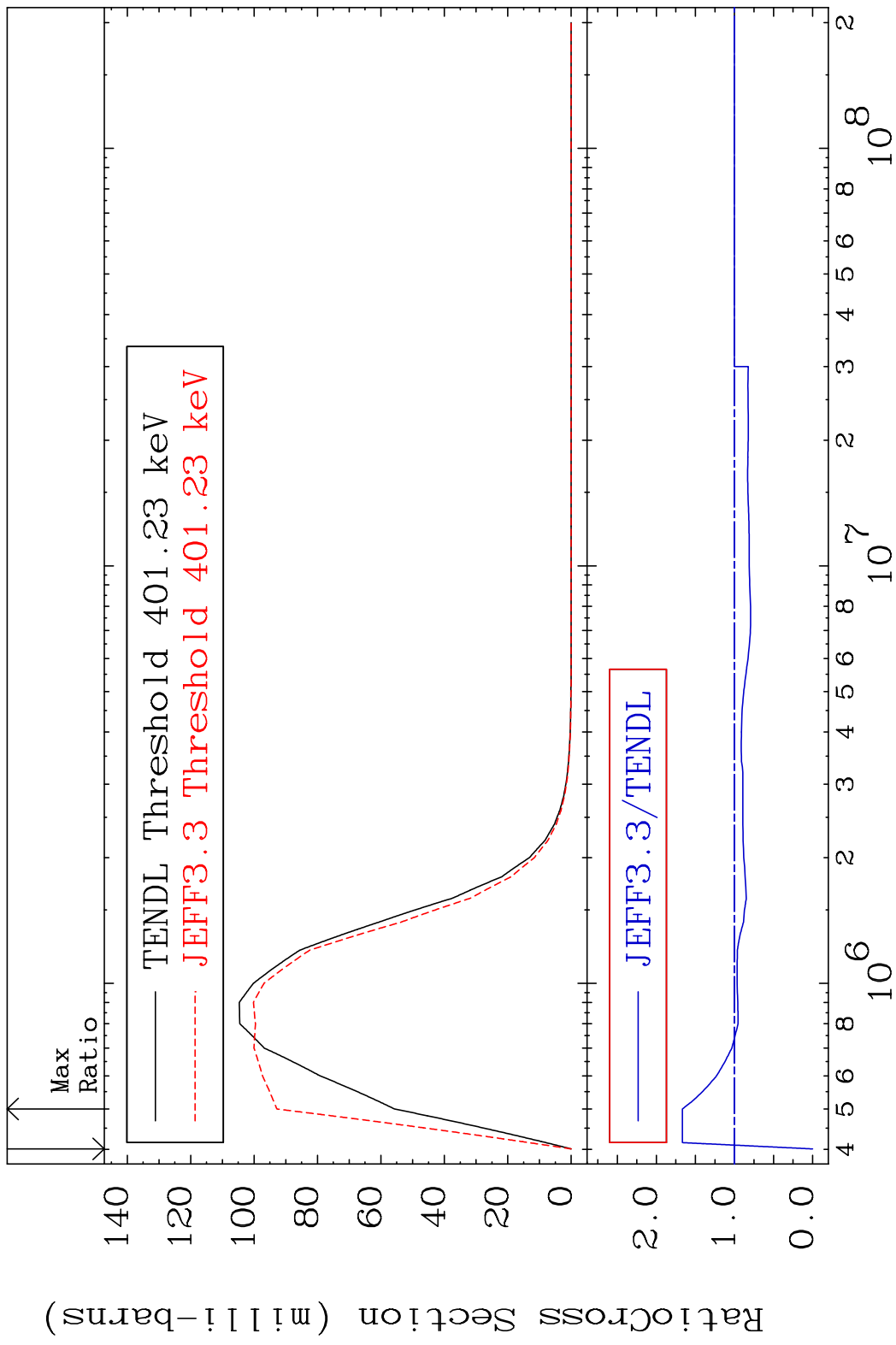
MAT 7040 MT= 53 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 29.56 %



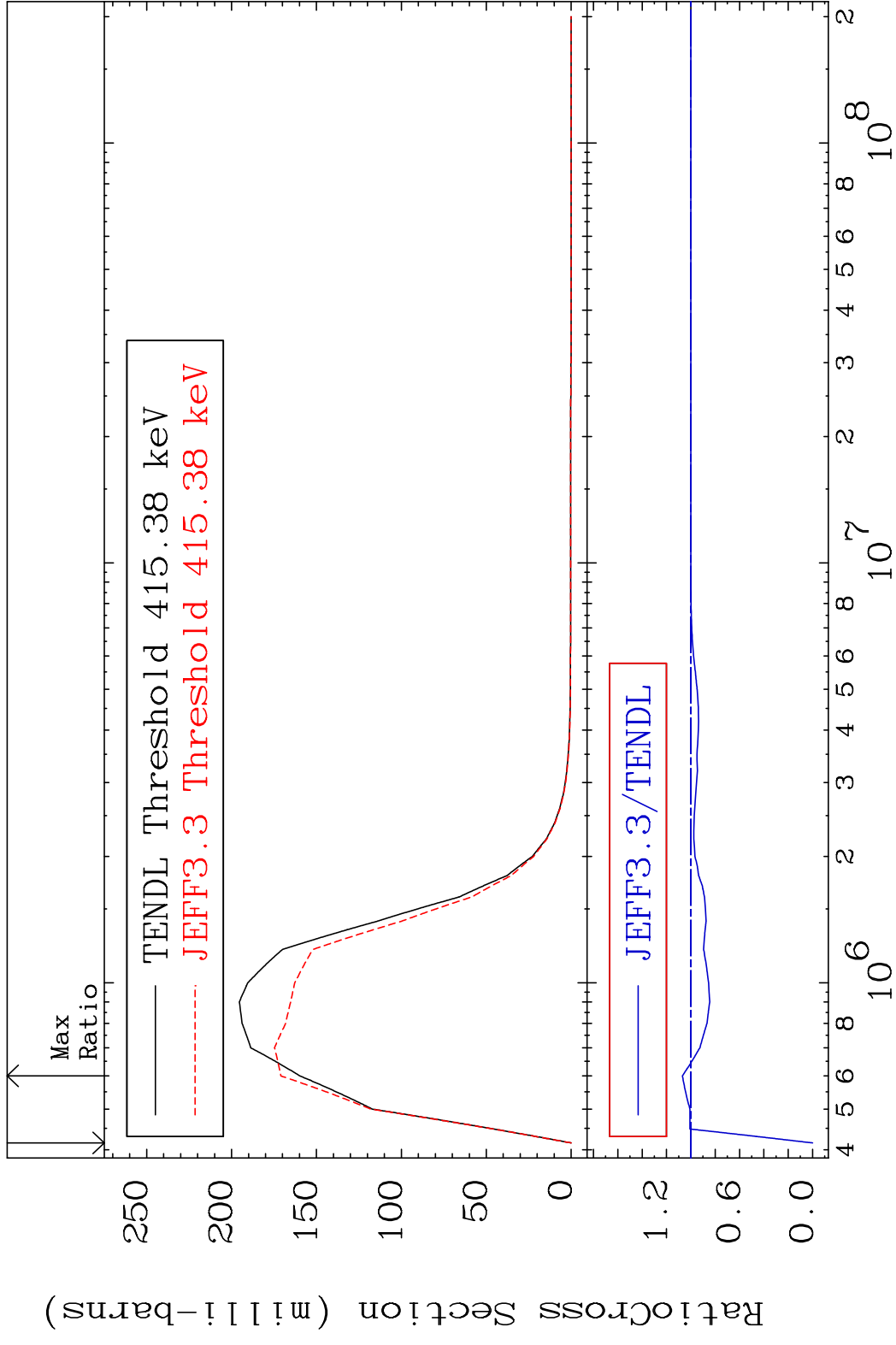
MAT 7040 MT= 54 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 0.268 %



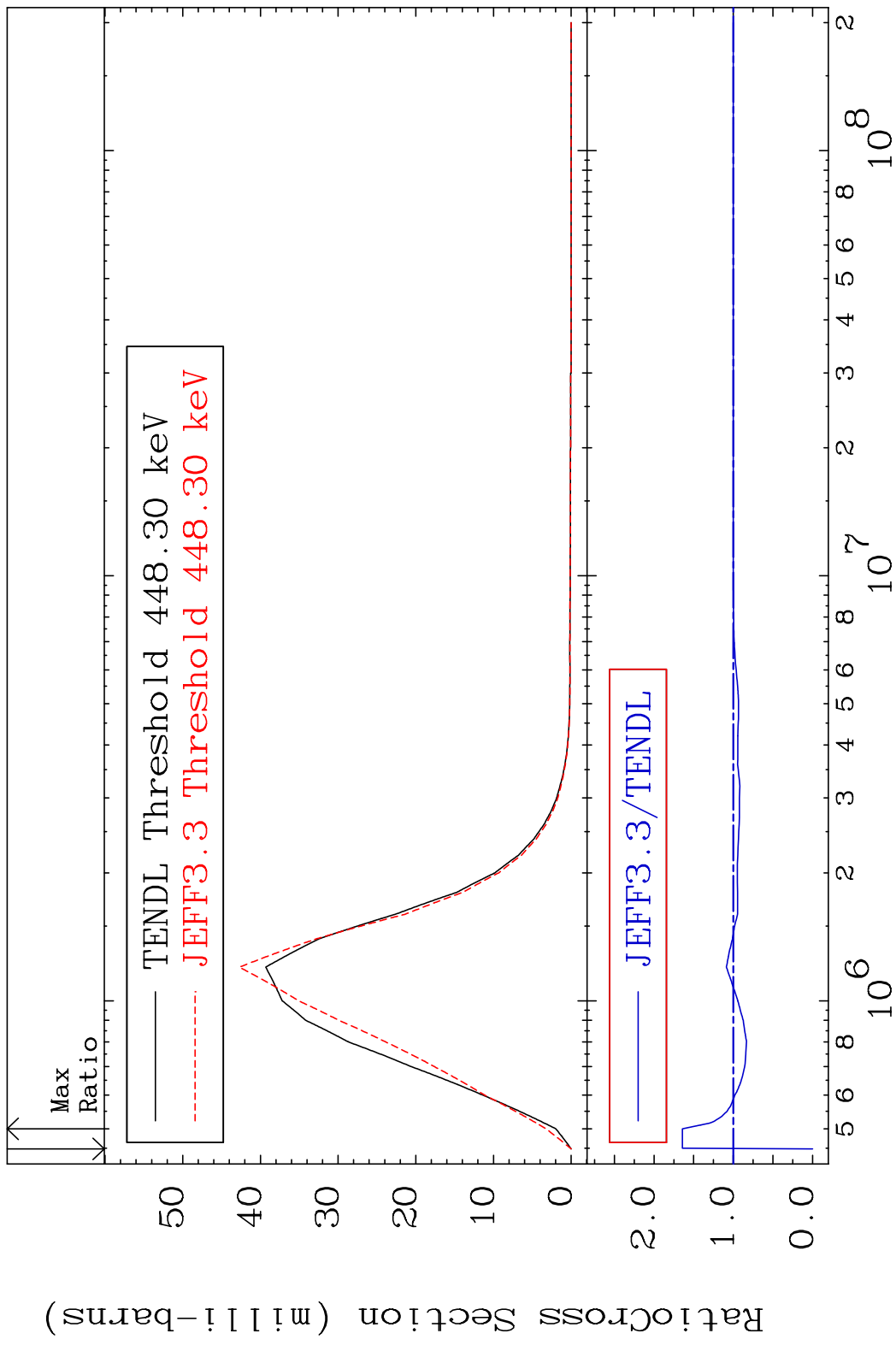
MAT 7040 MT= 55 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 66.71 %



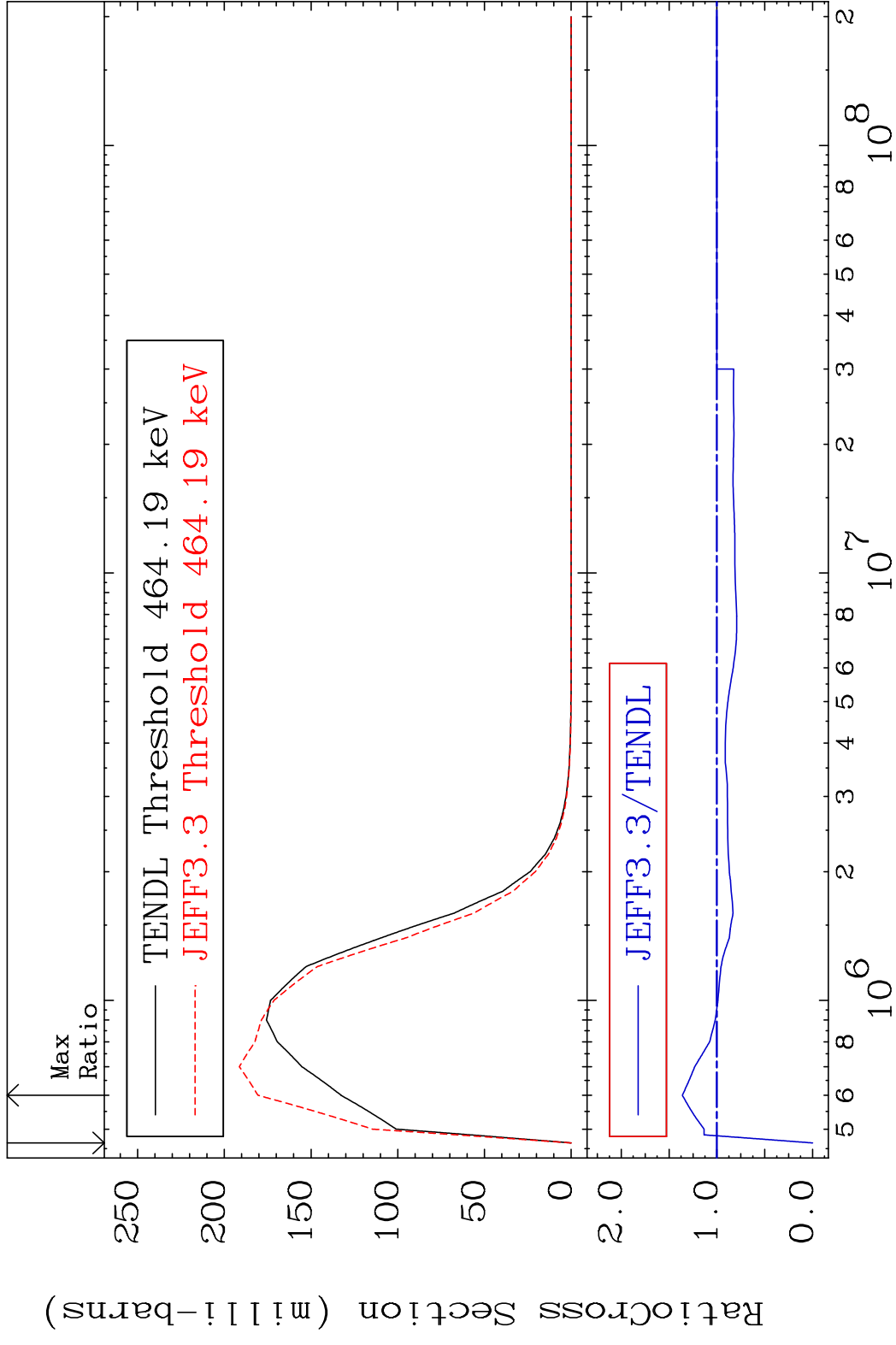
MAT 7040 MT= 56 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 6.973 %



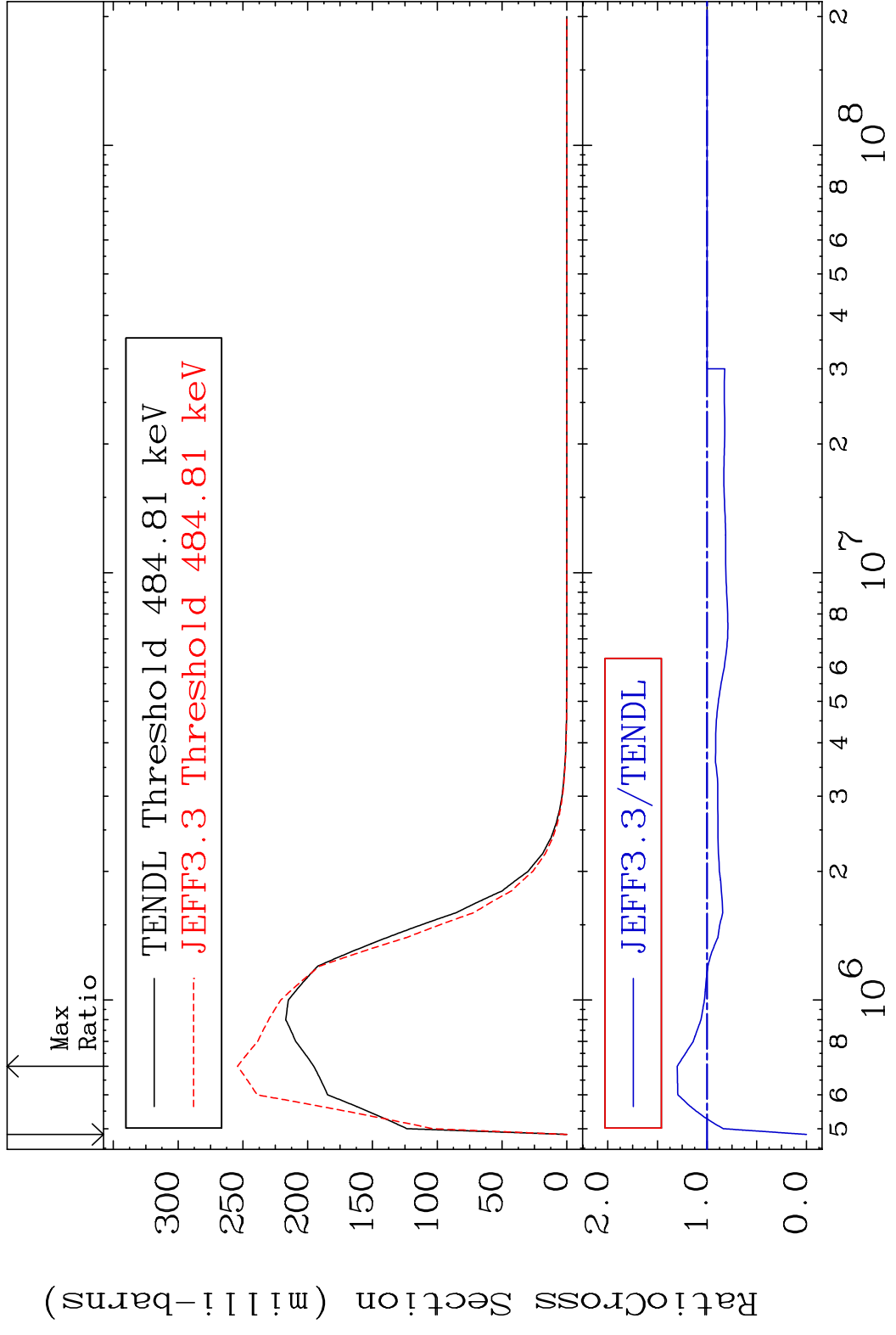
MAT 7040 MT= 57 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 64.26 %



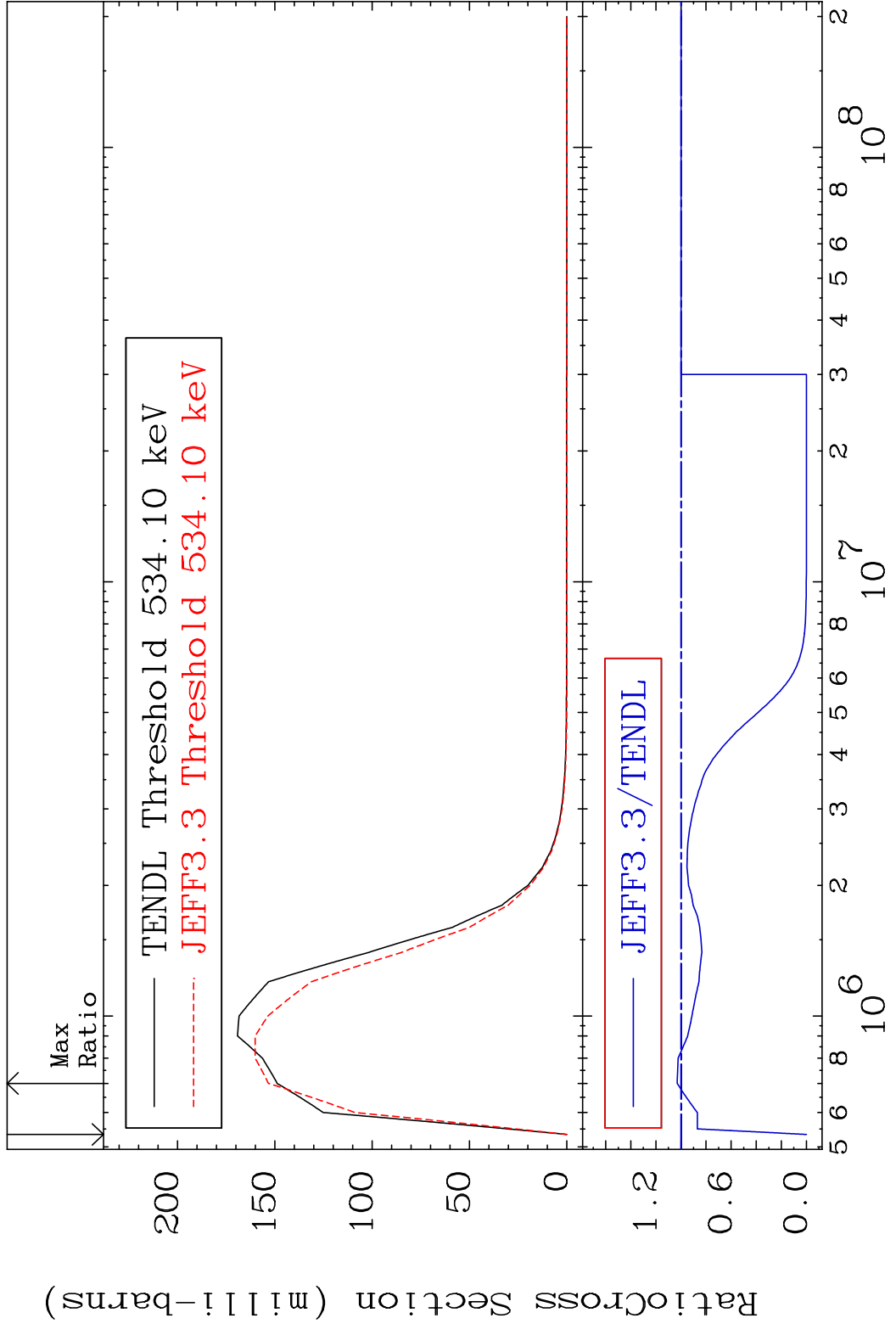
MAT 7040 MT= 58 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 36.14 %



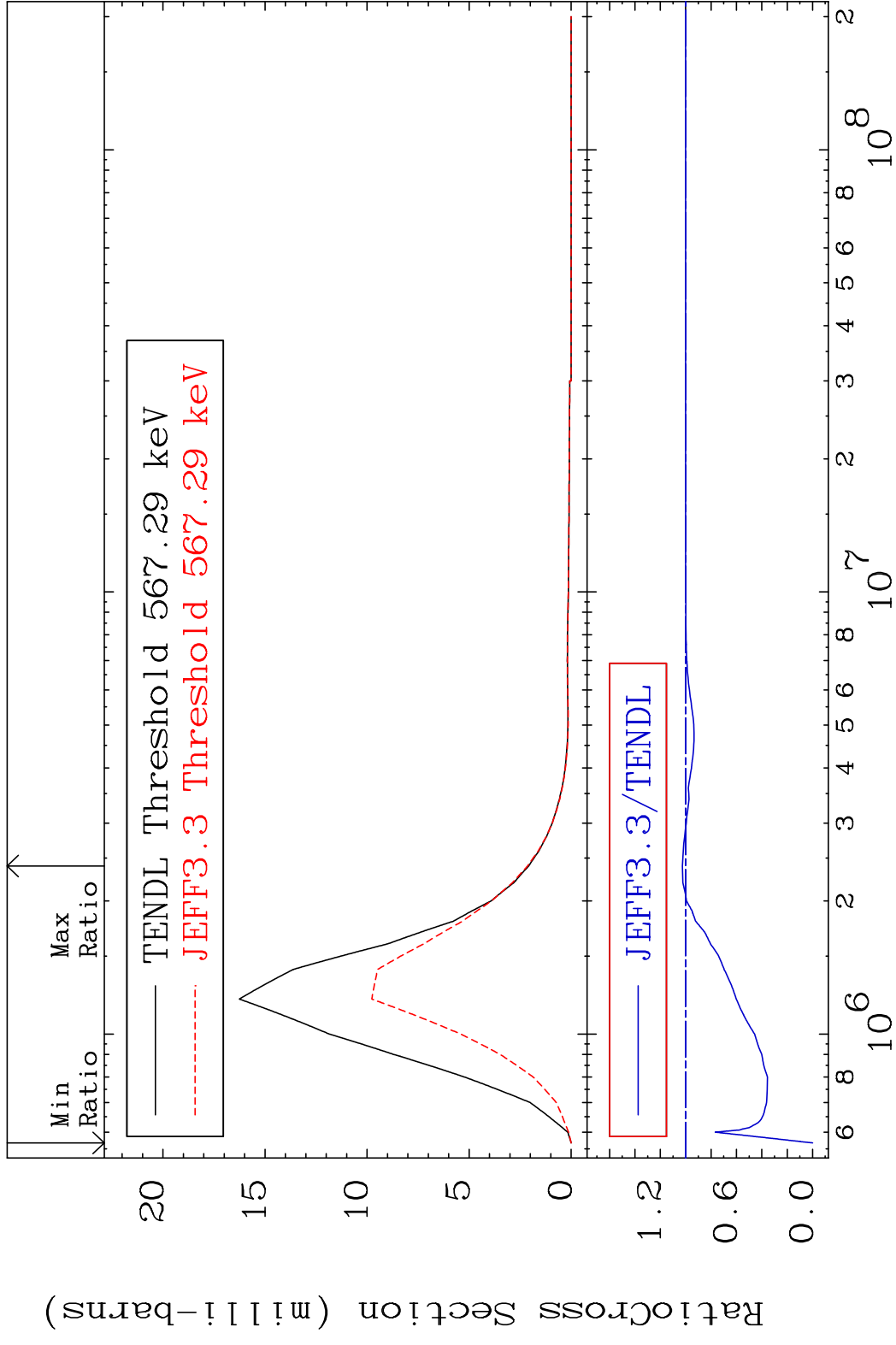
MAT 7040 MT= 59 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 30.14 %



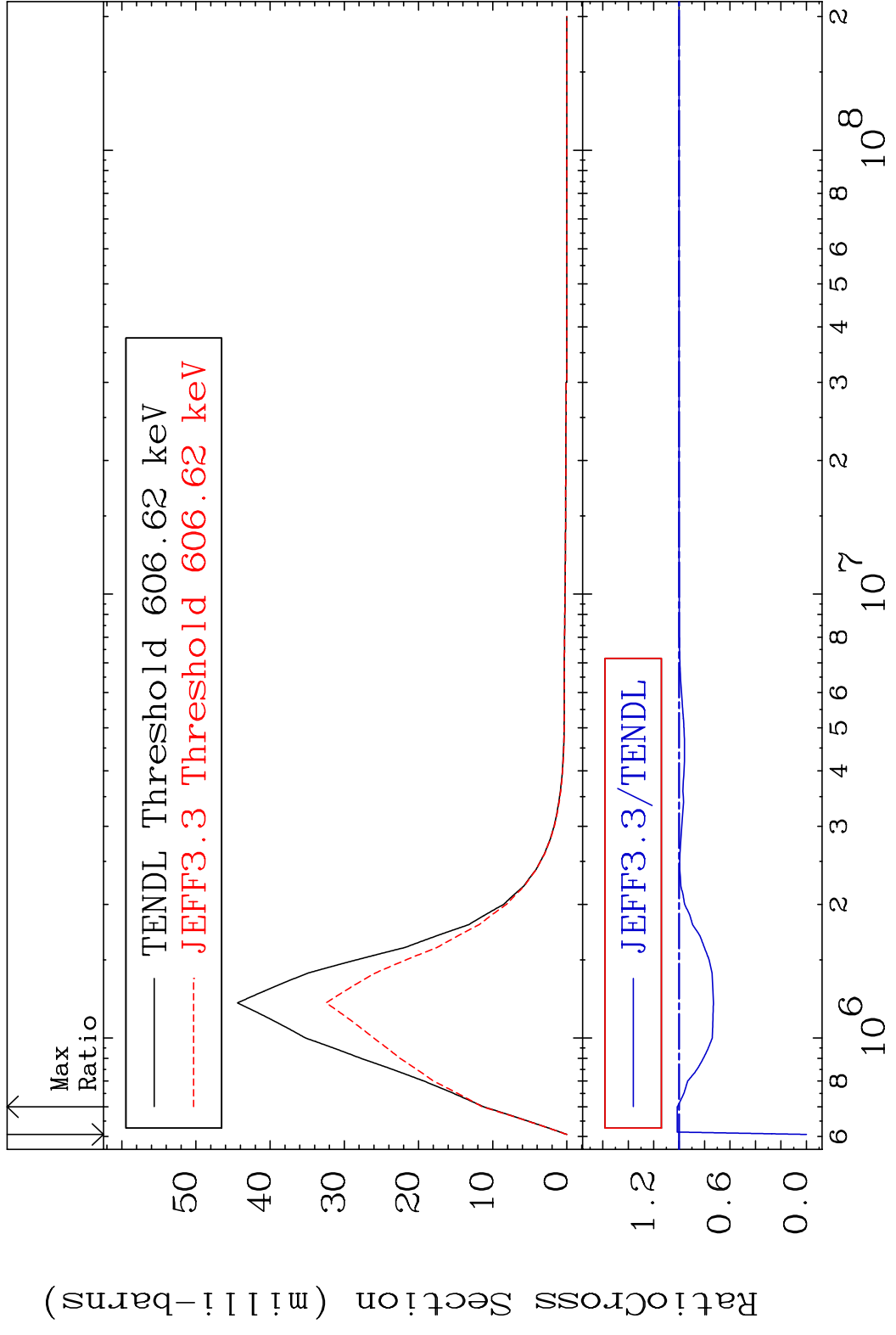
MAT 7040 MT= 60 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 3.027 %



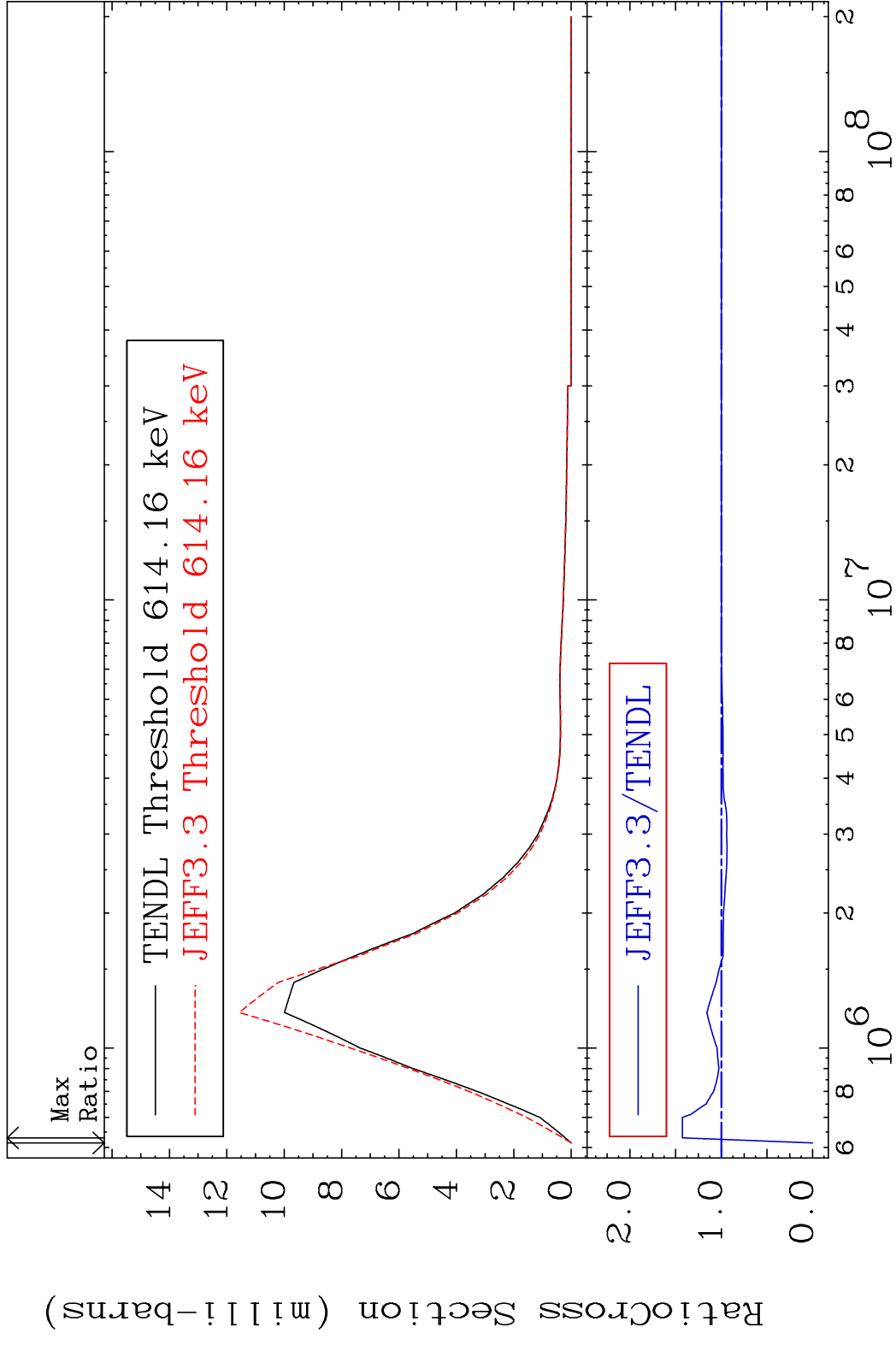
MAT 7040 MT= 61 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 2.618 %



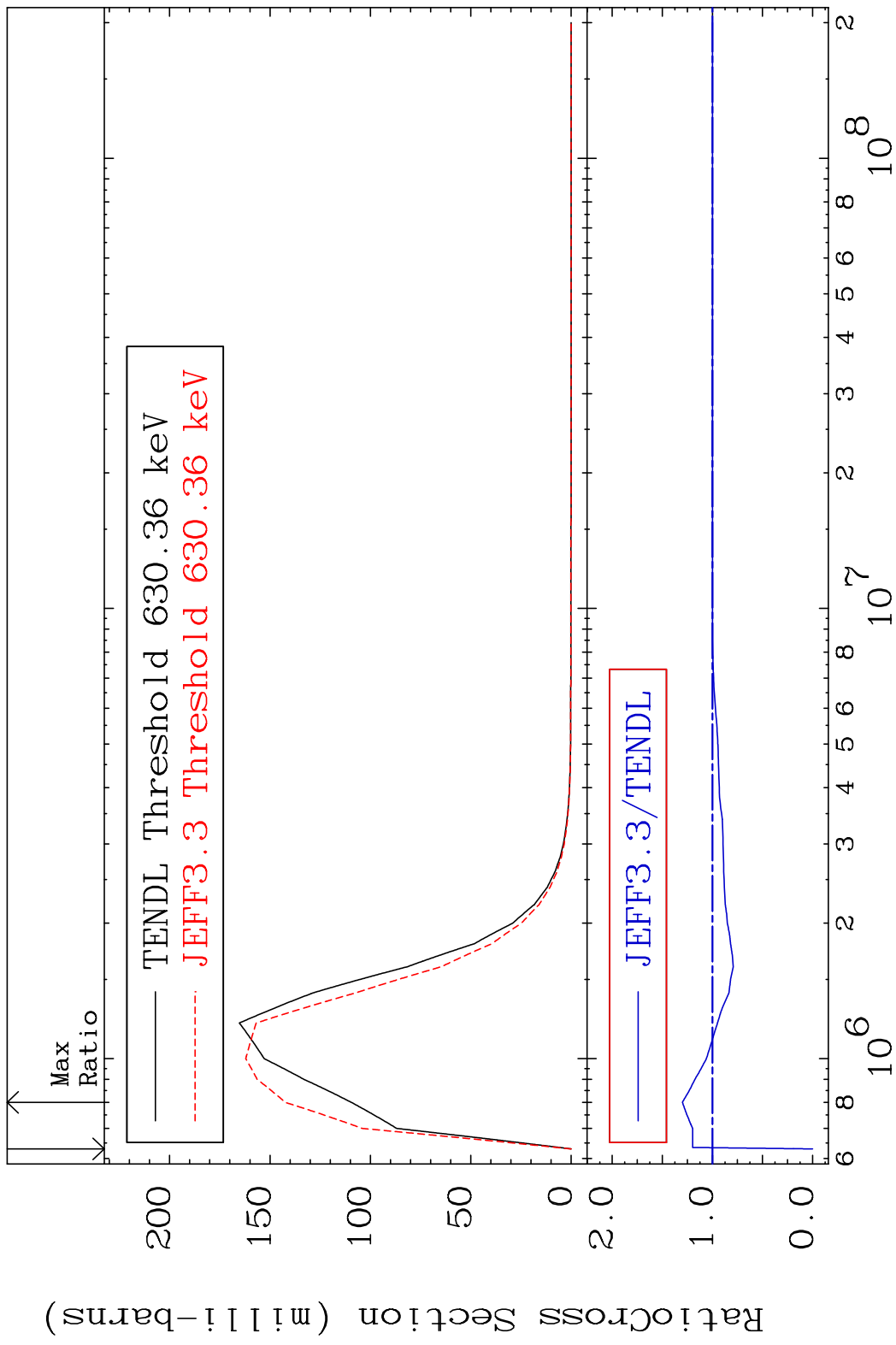
MAT 7040 MT= 62 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 1.536 %



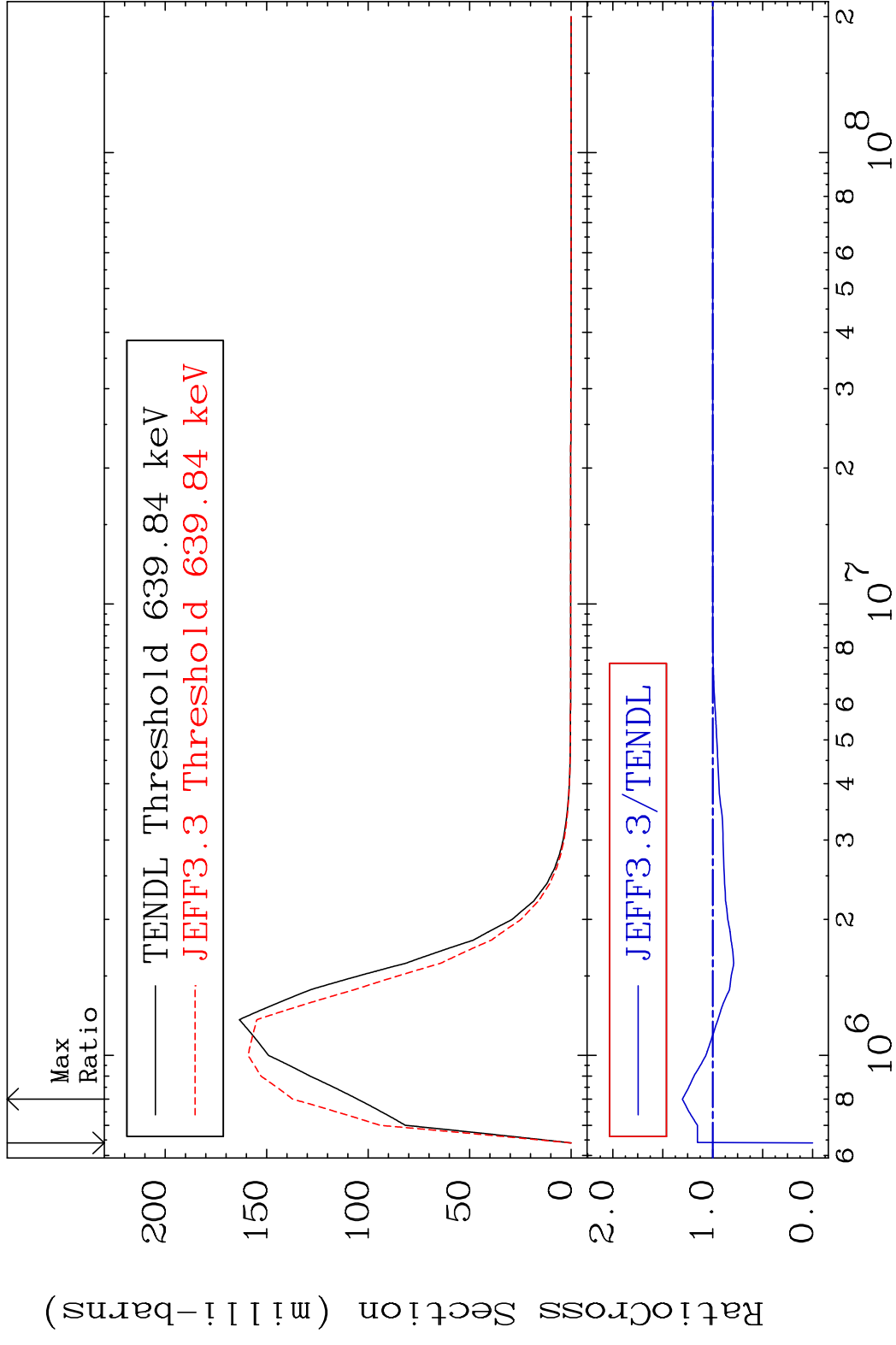
MAT 7040 MT= 63 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 42.64 %



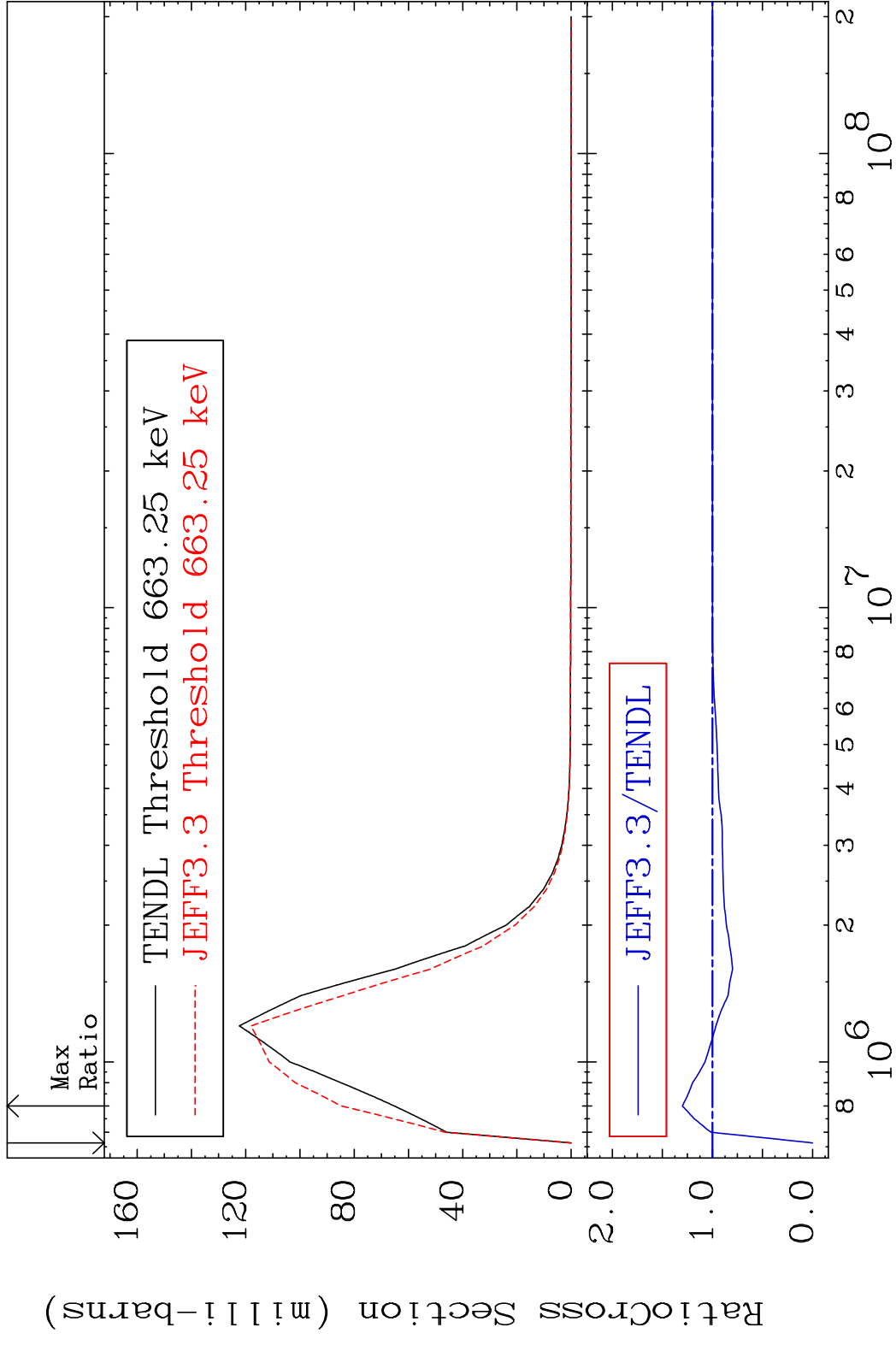
MAT 7040 MT= 64 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 30.00 %



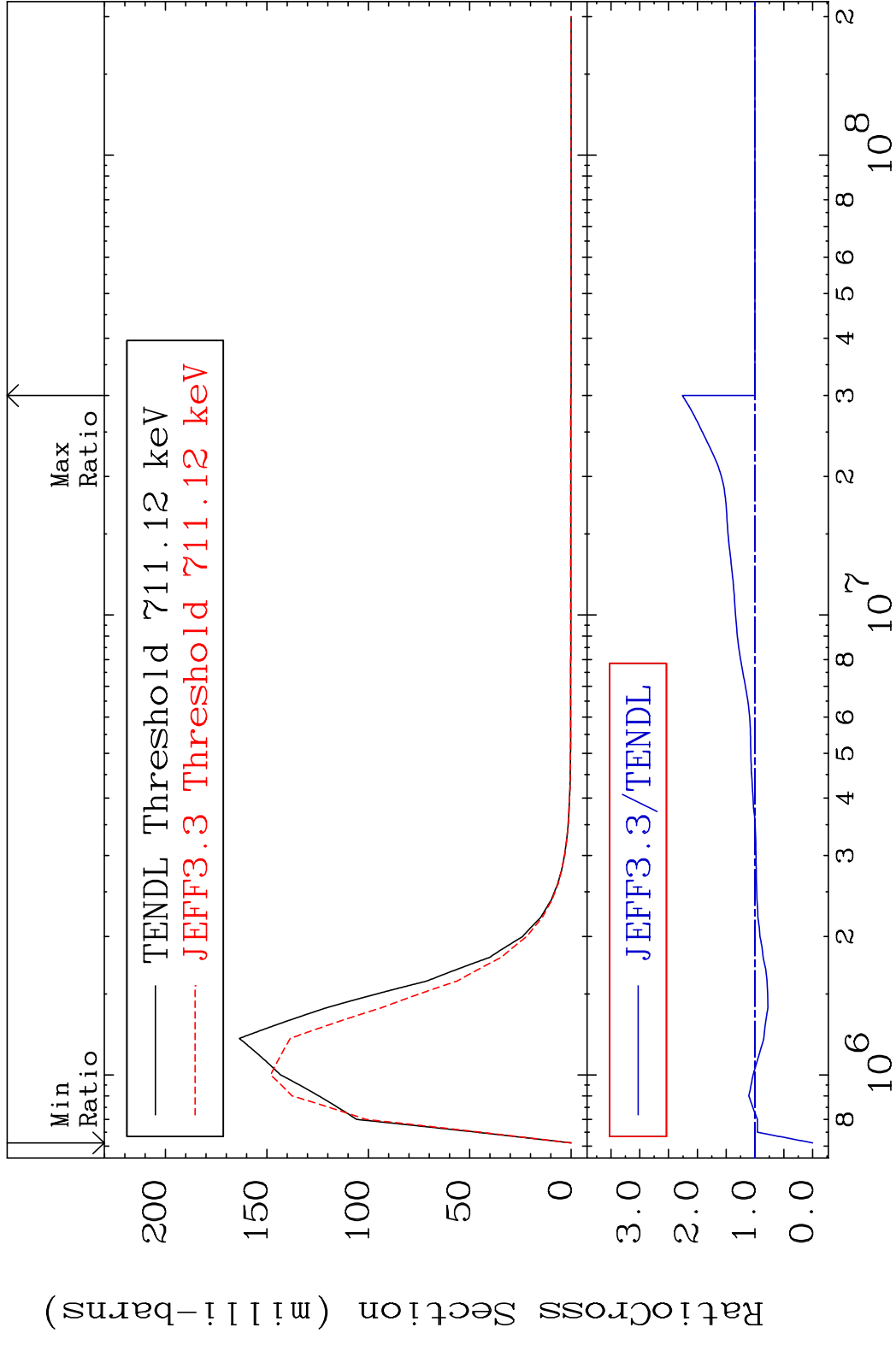
MAT 7040 MT= 65 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 30.36 %



MAT 7040 MT= 66 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 30.02 %



MAT 7040 MT= 67 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 126.1 %

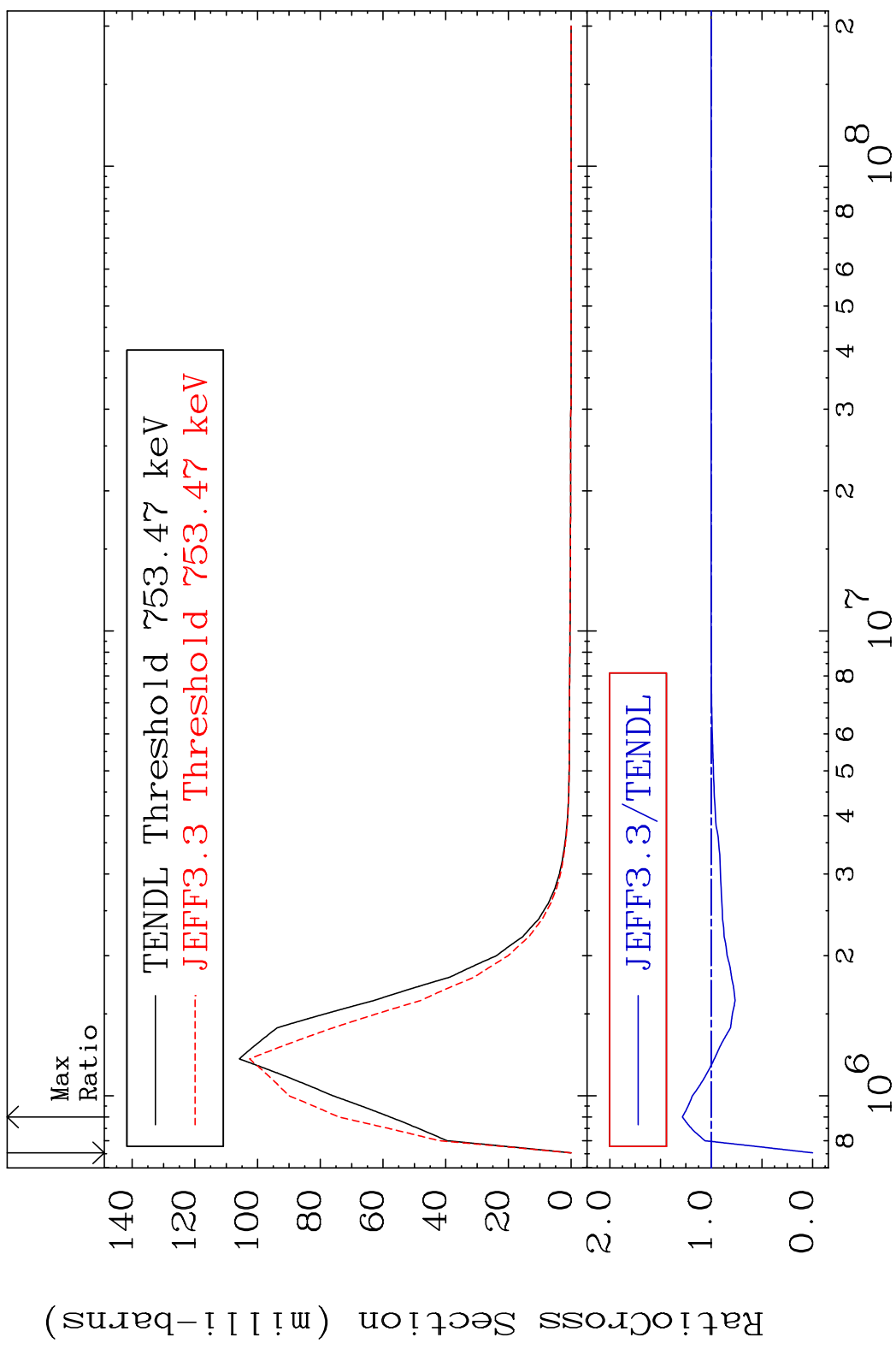


MAT 7040

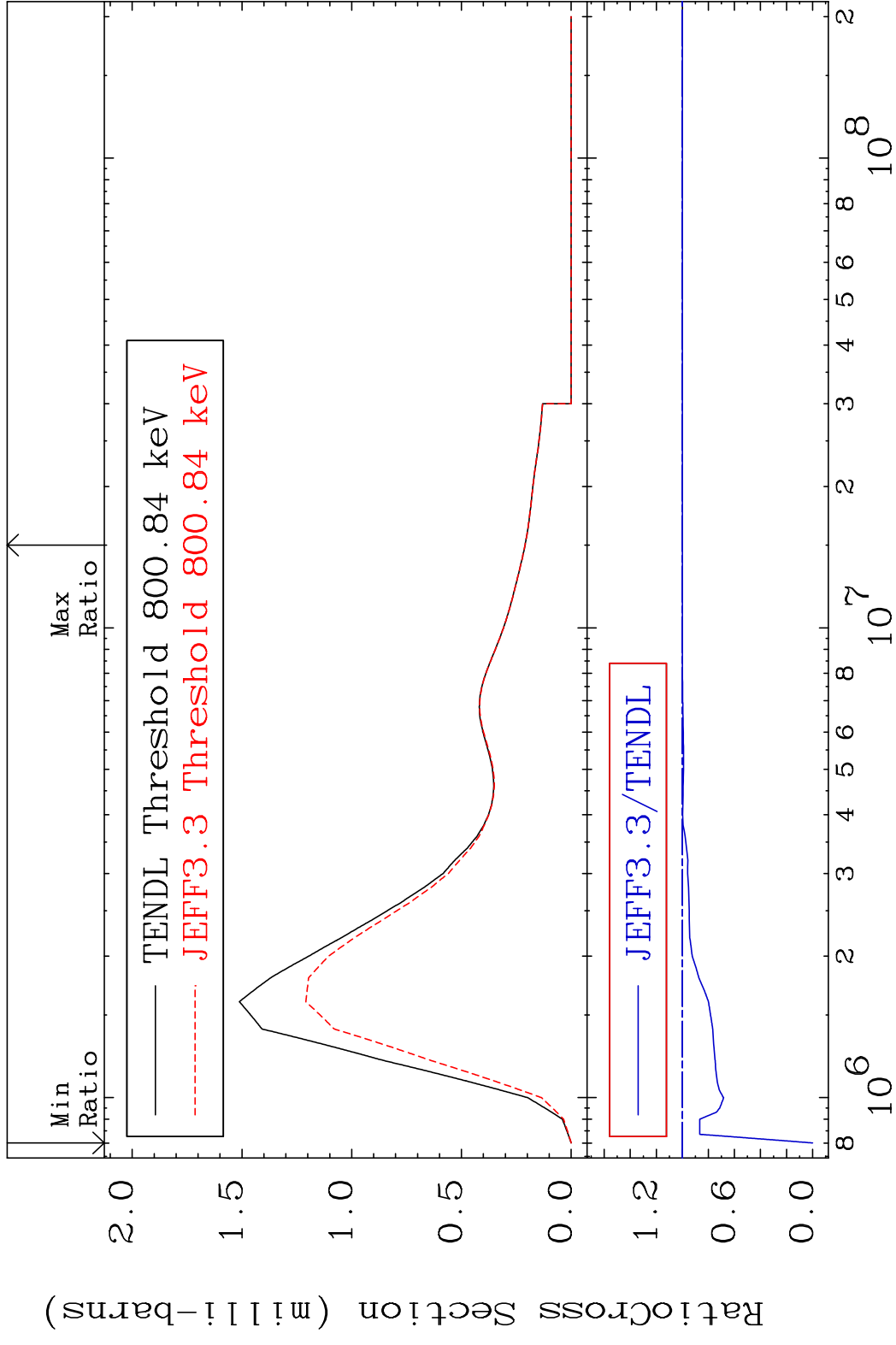
MT= 68 (n,n') Level

70-Yb-173

Cross Section -100.0 To 28.43 %

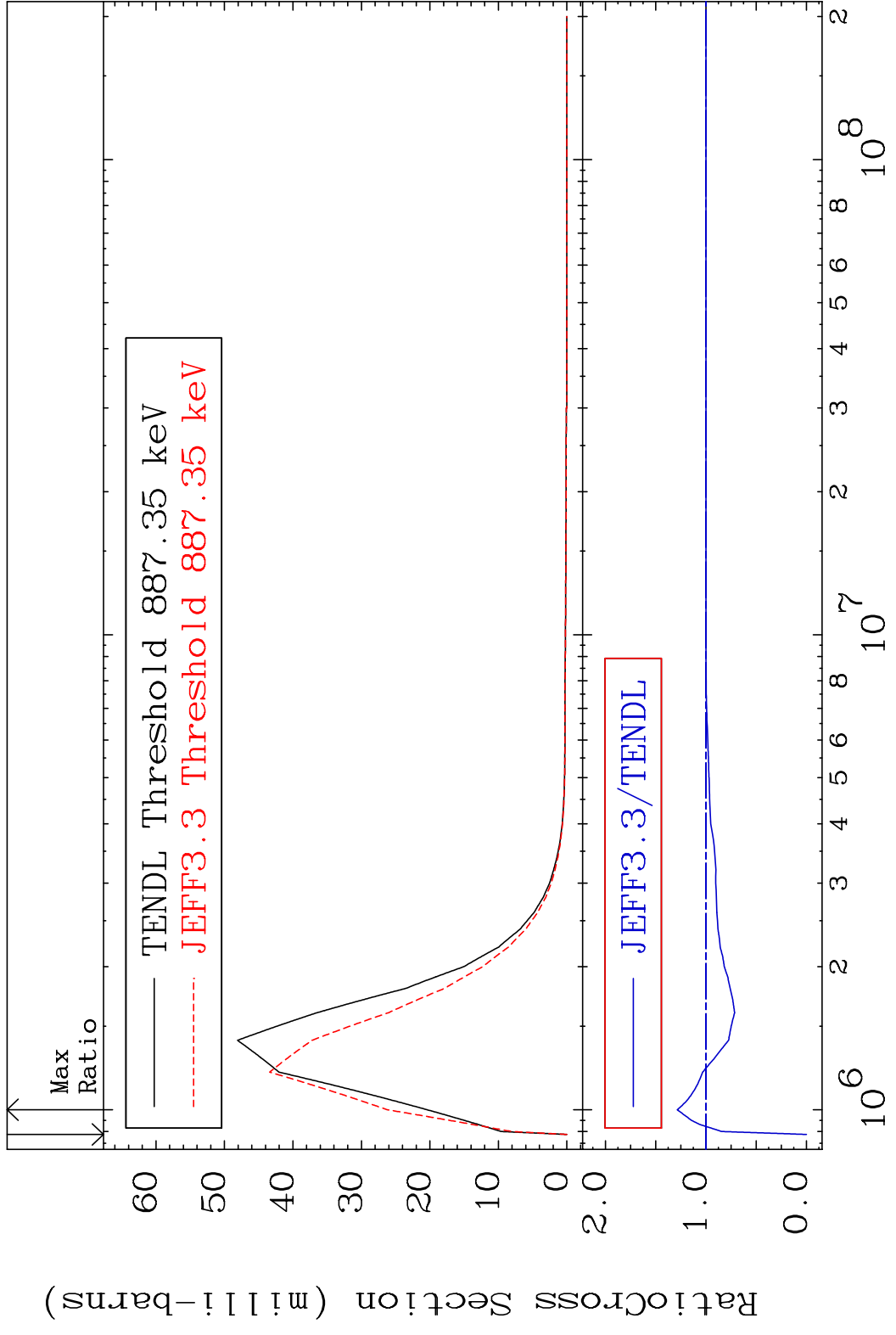


MAT 7040 MT= 69 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 0.000 %



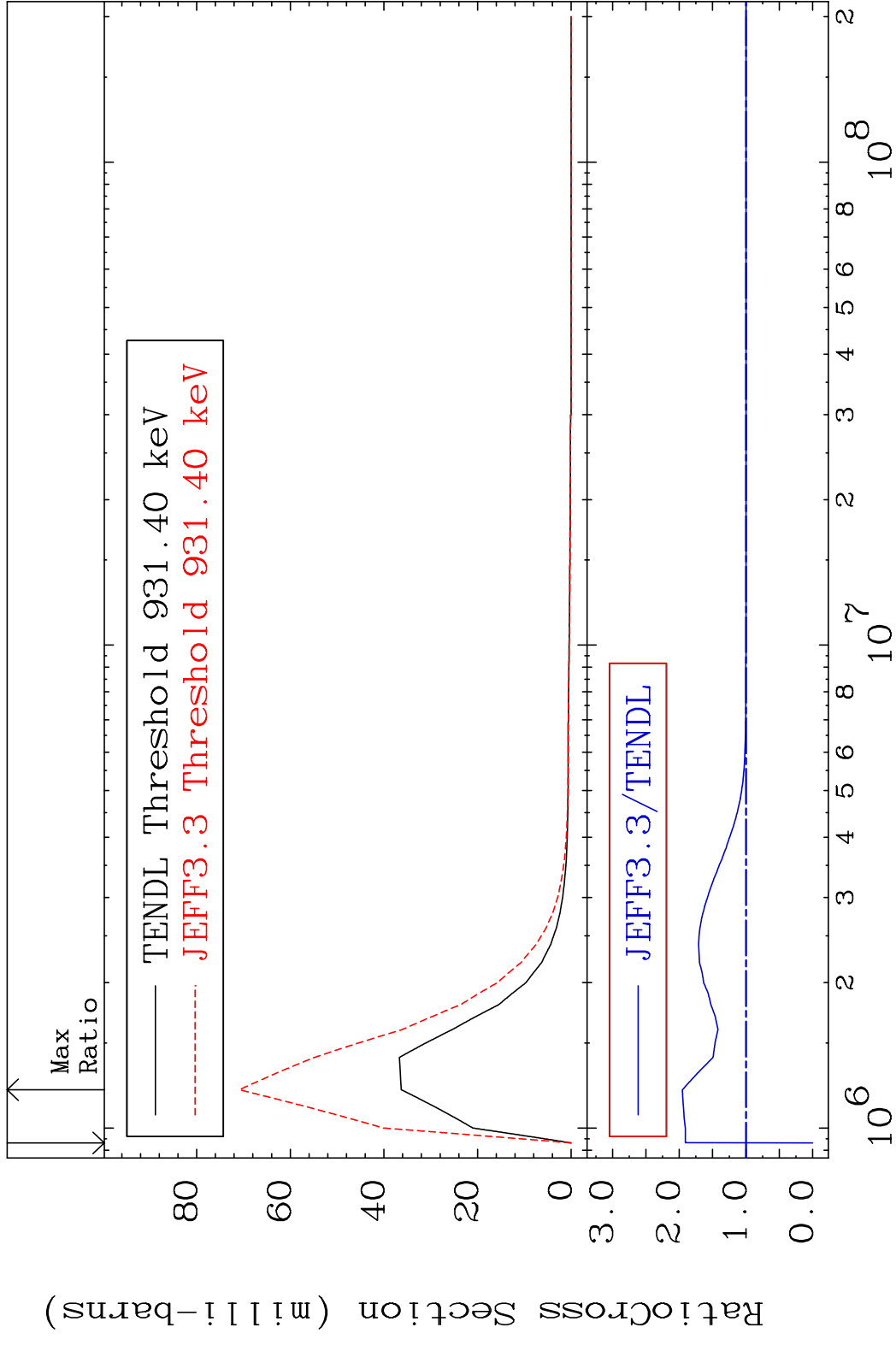
39 Incident Energy (eV) 70-Yb-173

MAT 7040 MT= 70 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 28.55 %



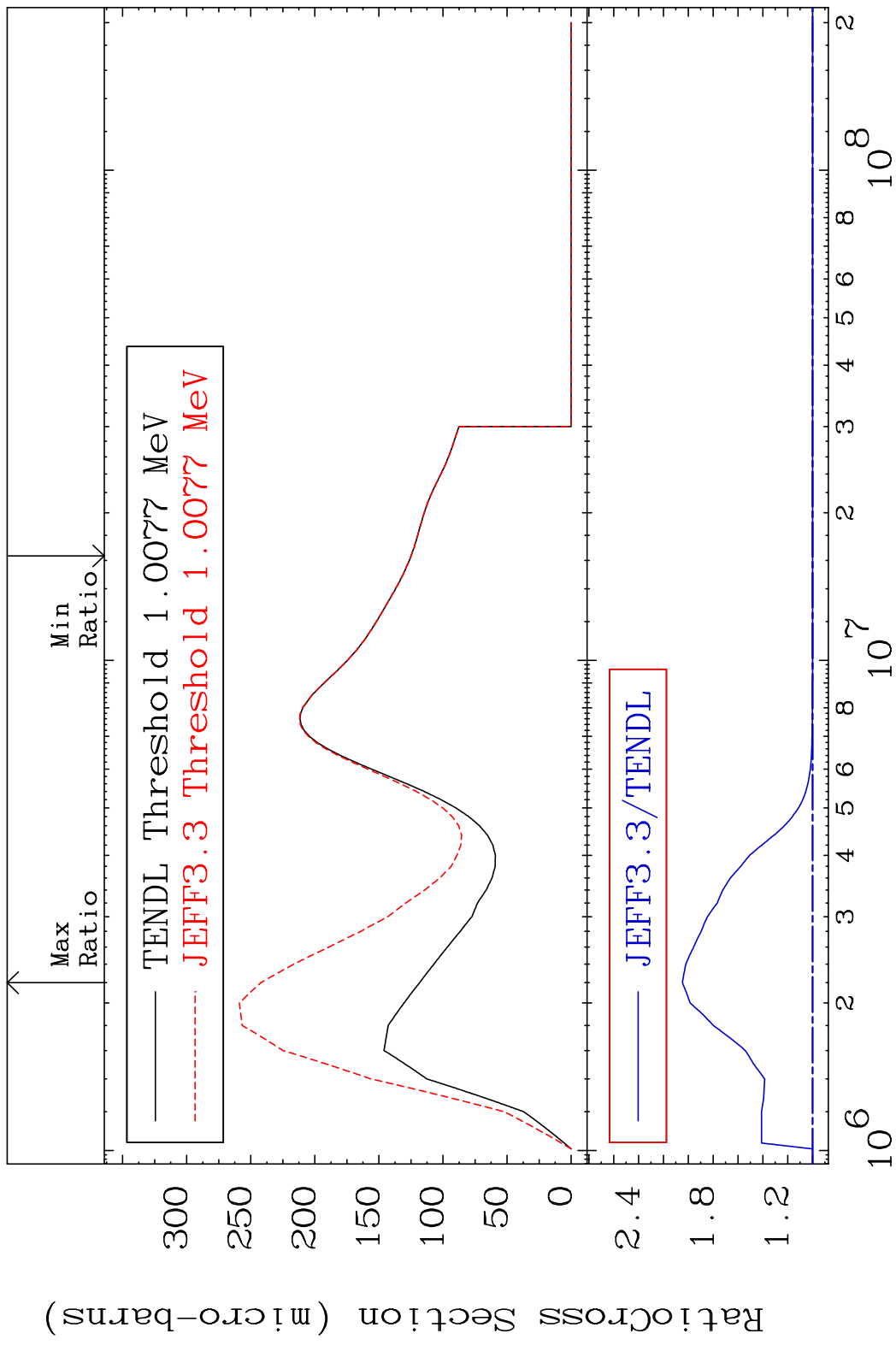
40 2 2 3 3 4 4 5 5 6 6 7 7 8 8 10⁶ 10⁸ 70-Yb-173

MAT 7040 MT= 71 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 95.38 %



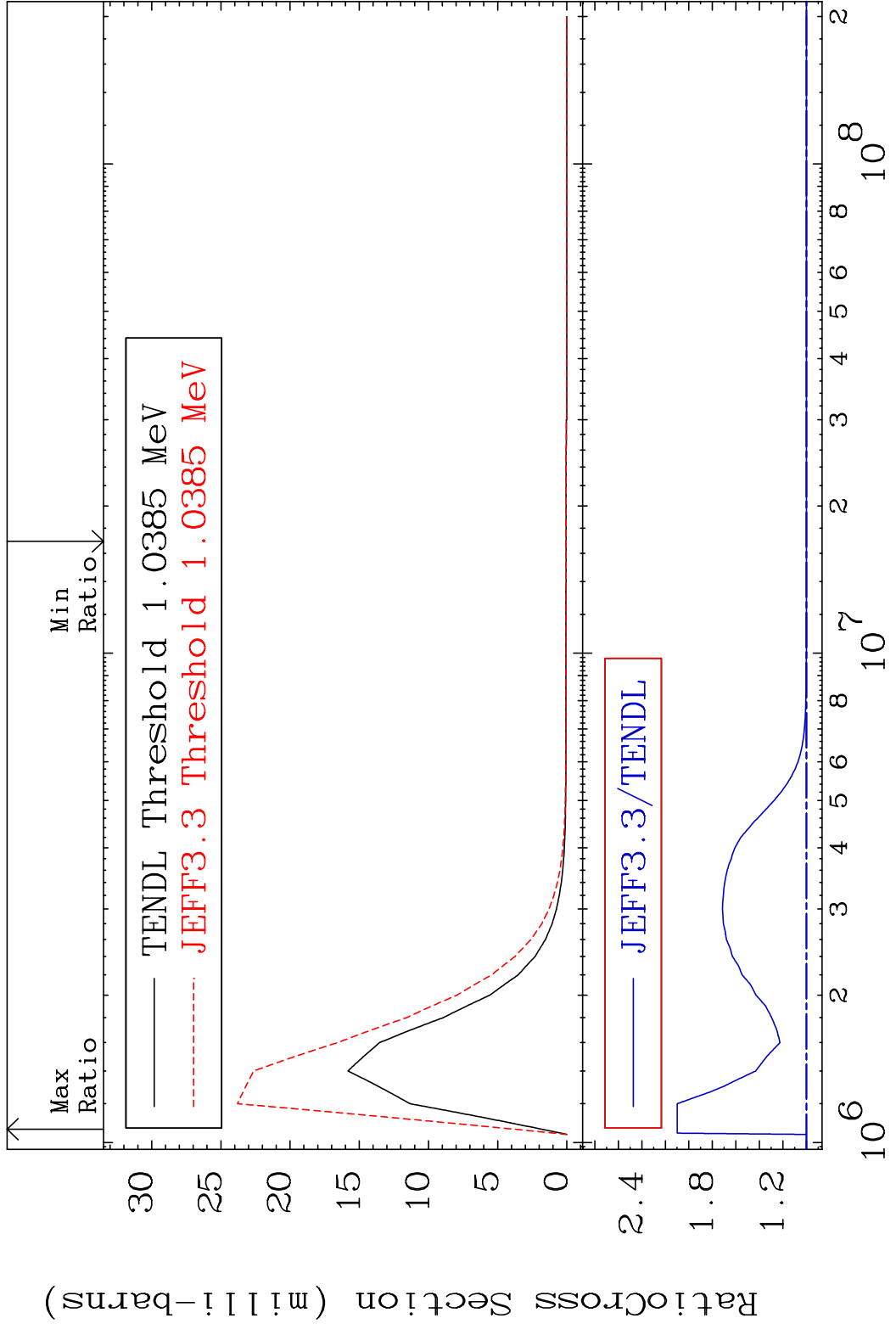
41 Incident Energy (eV) 70-Yb-173

MAT 7040 MT= 72 (n, n') Level 70-Yb-173
 Cross Section 0.000 To 104.7 %



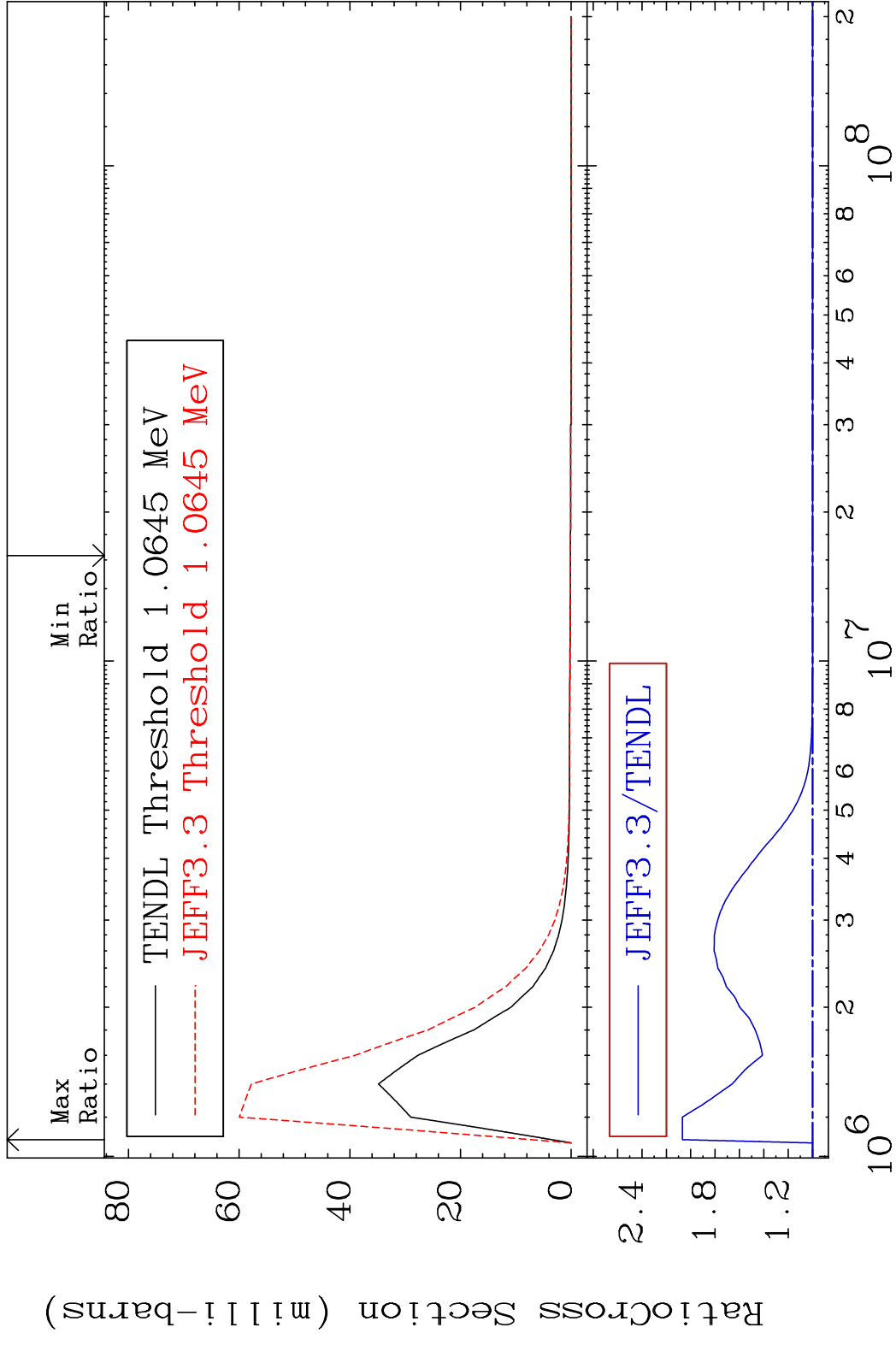
42 Incident Energy (eV) 70-Yb-173

MAT 7040 MT= 73 (n, n') Level 70-Yb-173
 Cross Section 0.000 To 109.9 %



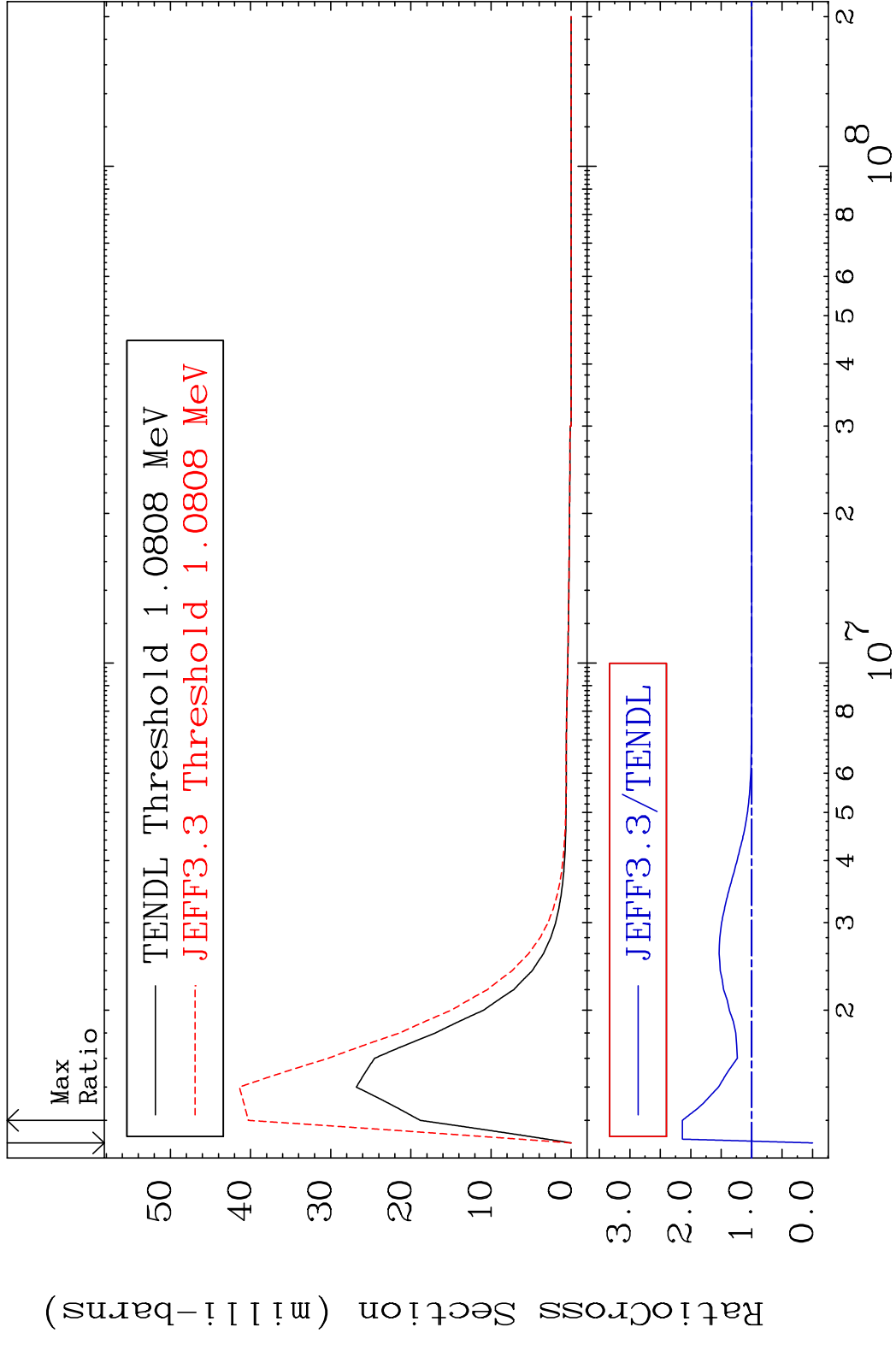
43 Incident Energy (eV) 70-Yb-173

MAT 7040 MT= 74 (n,n') Level 70-Yb-173
 Cross Section 0.000 To 106.8 %

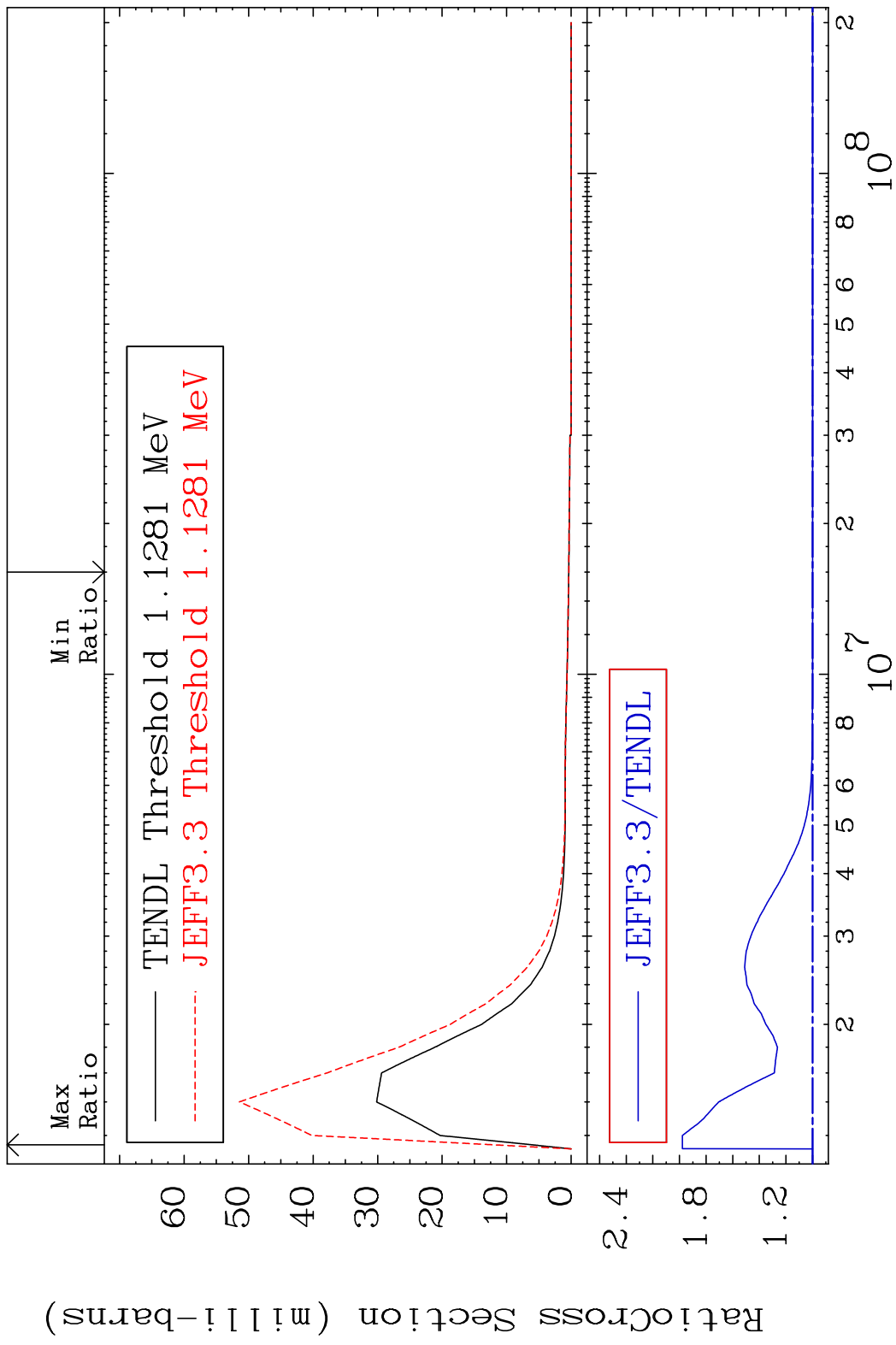


44 Incident Energy (eV) 70-Yb-173

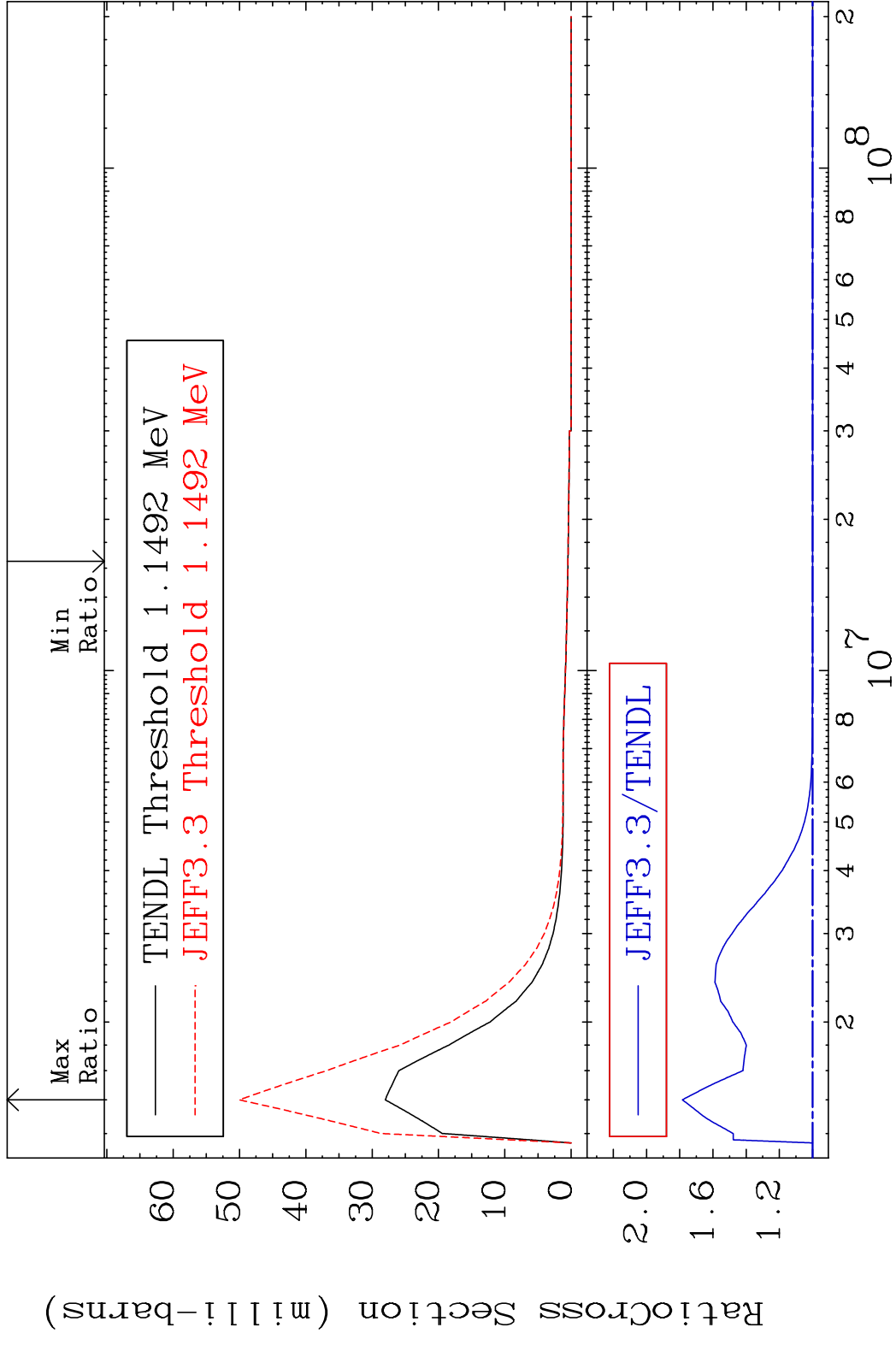
MAT 7040 MT= 75 (n, n') Level 70-Yb-173
 Cross Section -100.0 To 113.8 %



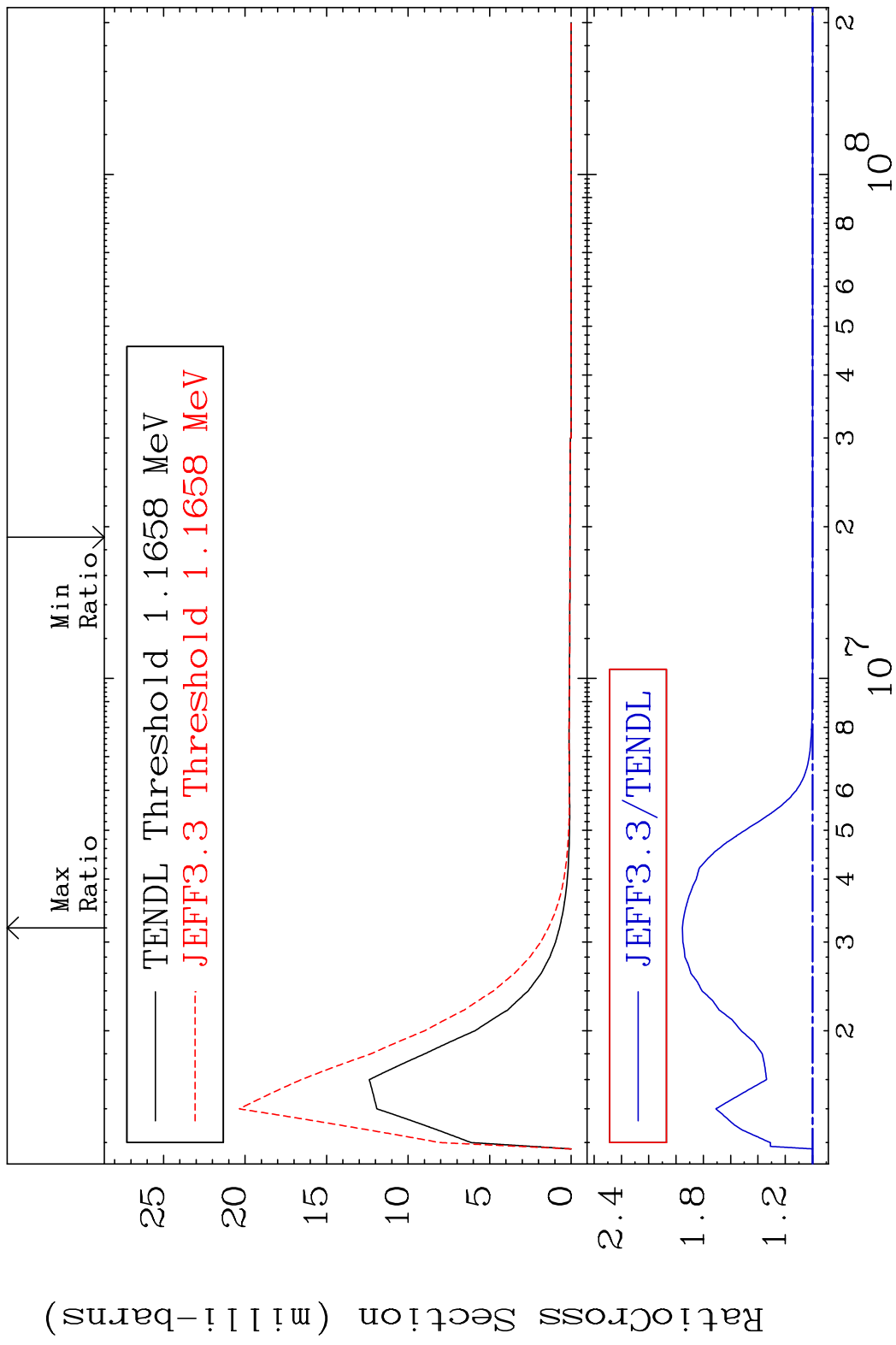
MAT 7040 MT= 76 (n, n') Level 70-Yb-173
 Cross Section 0.000 To 97.82 %



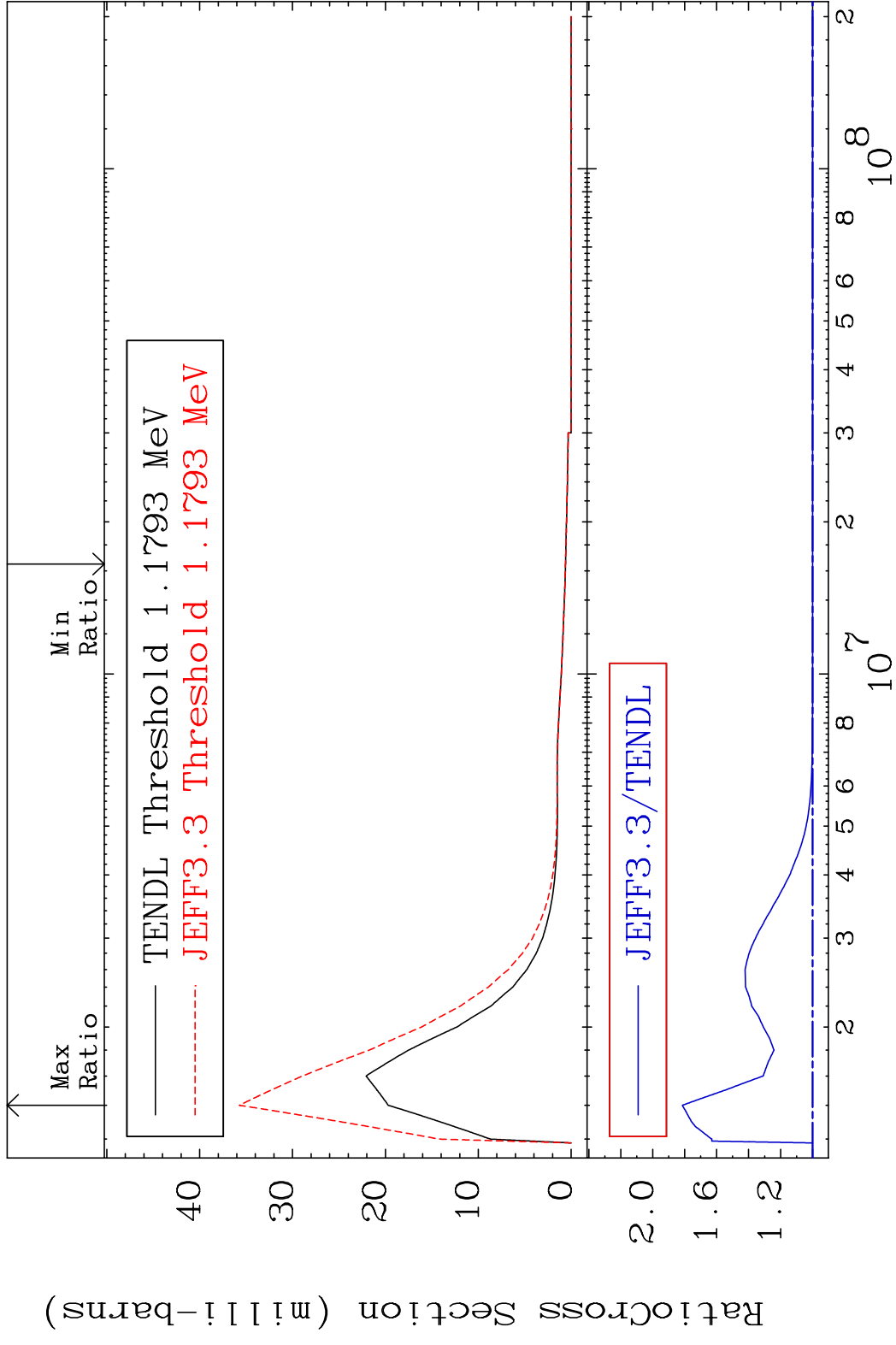
MAT 7040 MT= 77 (n, n') Level 70-Yb-173
 Cross Section 0.000 To 78.43 %



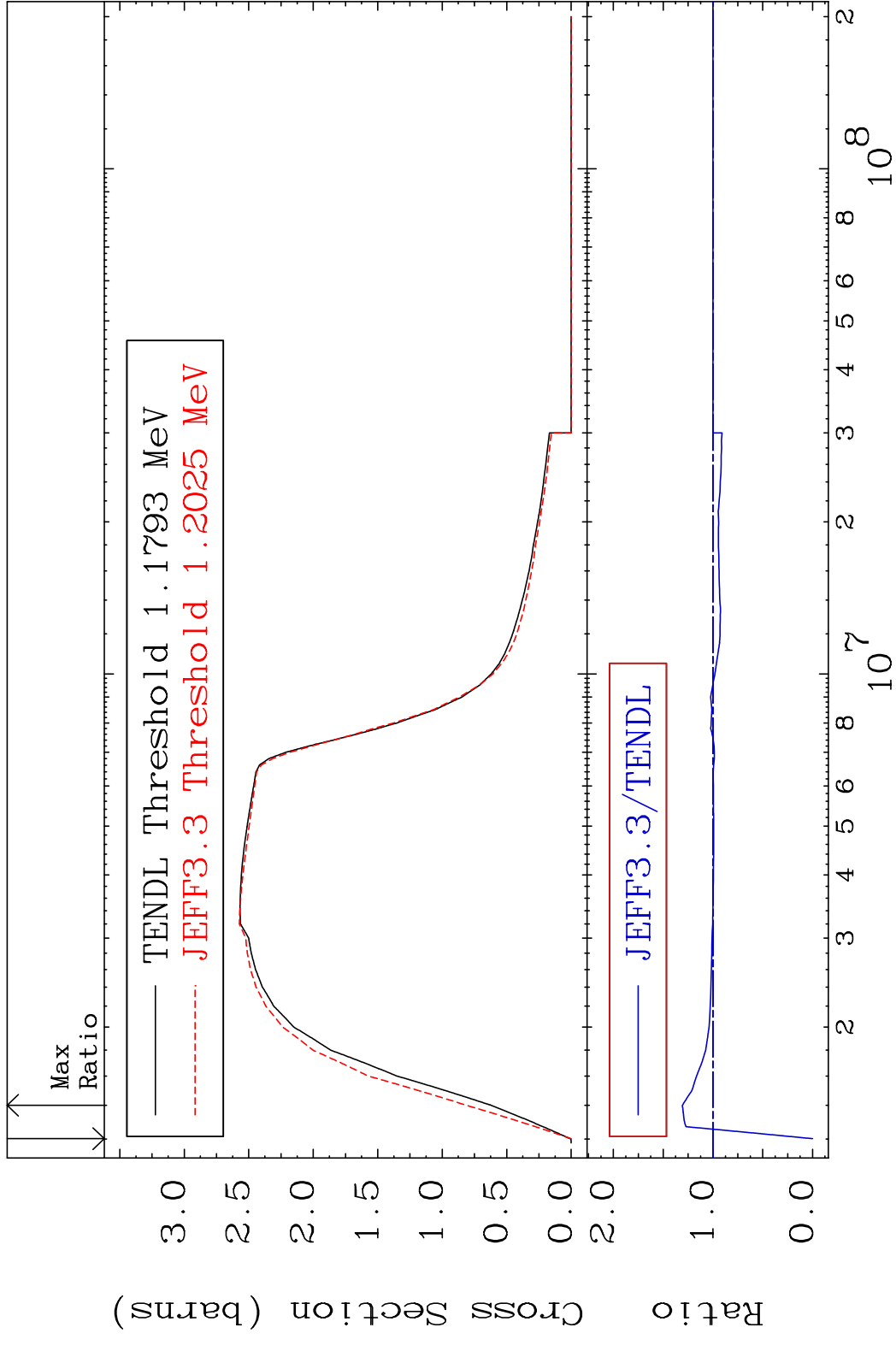
MAT 7040 MT= 78 (n, n') Level 70-Yb-173
 Cross Section 0.000 To 95.36 %



MAT 7040 MT= 79 (n, n') Level 70-Yb-173
 Cross Section 0.000 To 81.47 %



MAT 7040 (n, n') Continuum 70-Yb-173
 Cross Section -100.0 To 30.75 %

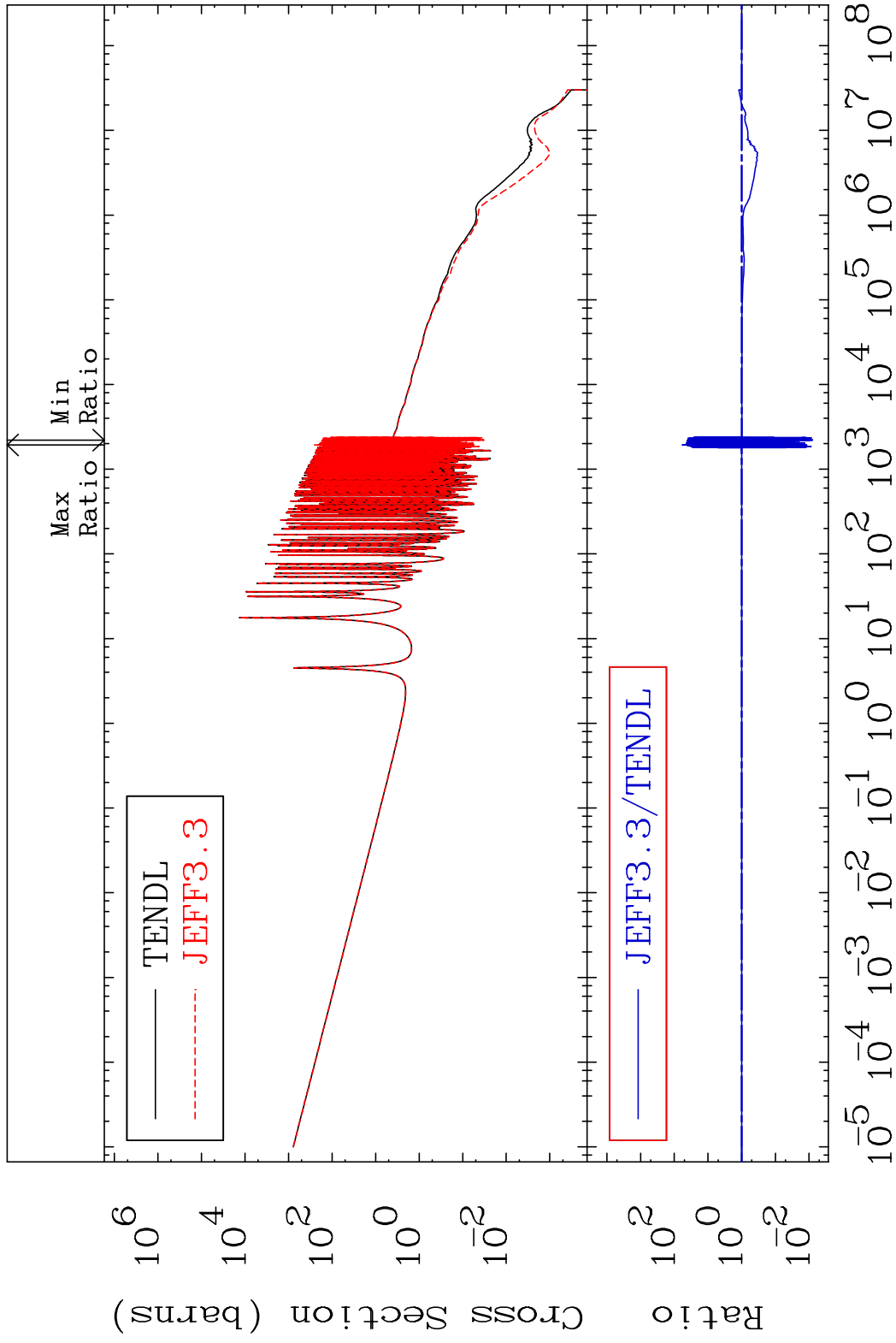


MAT 7040

(n, γ)

70-Yb-173

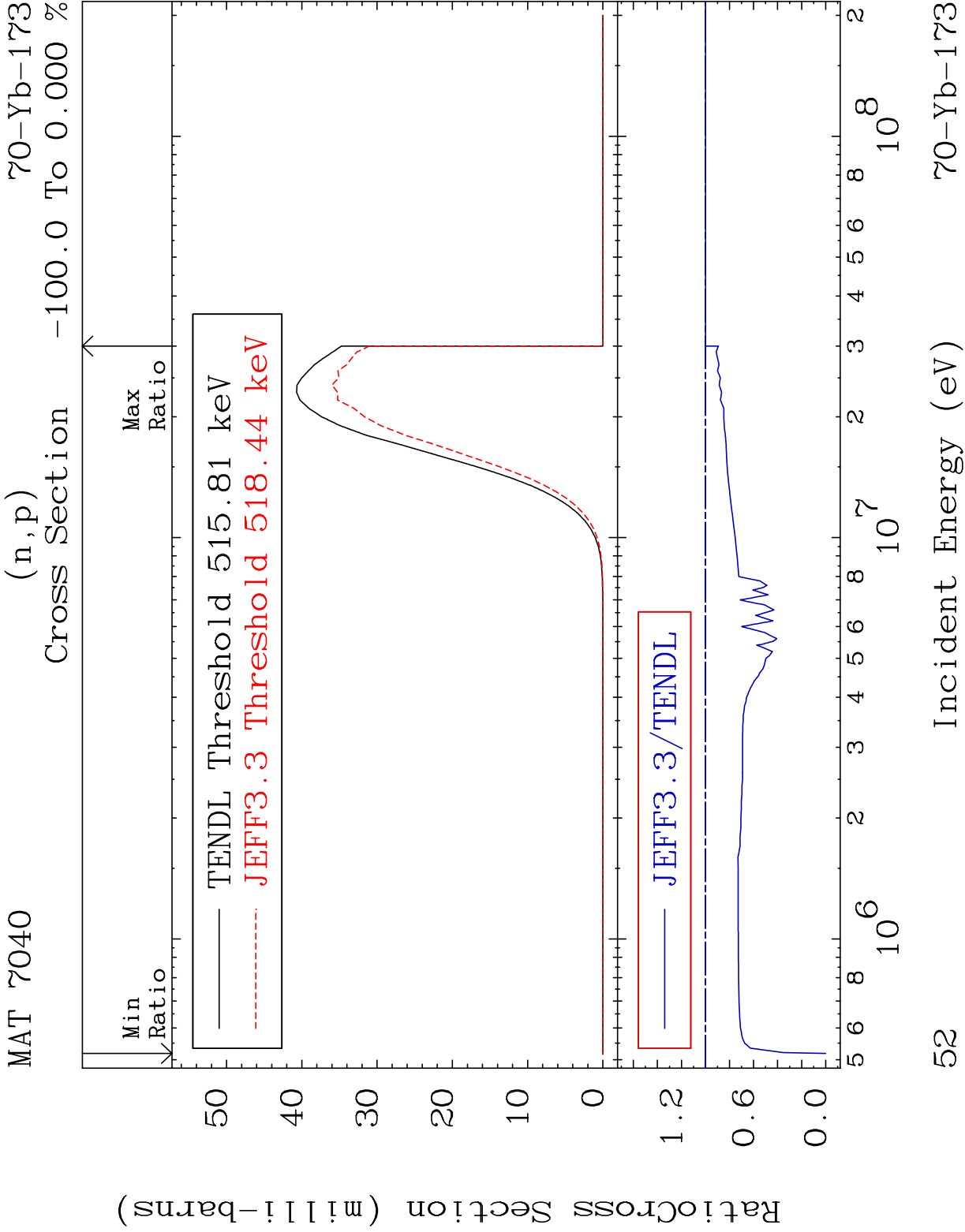
Cross Section -99.21 To 5658. %



51

Incident Energy (eV)

70-Yb-173

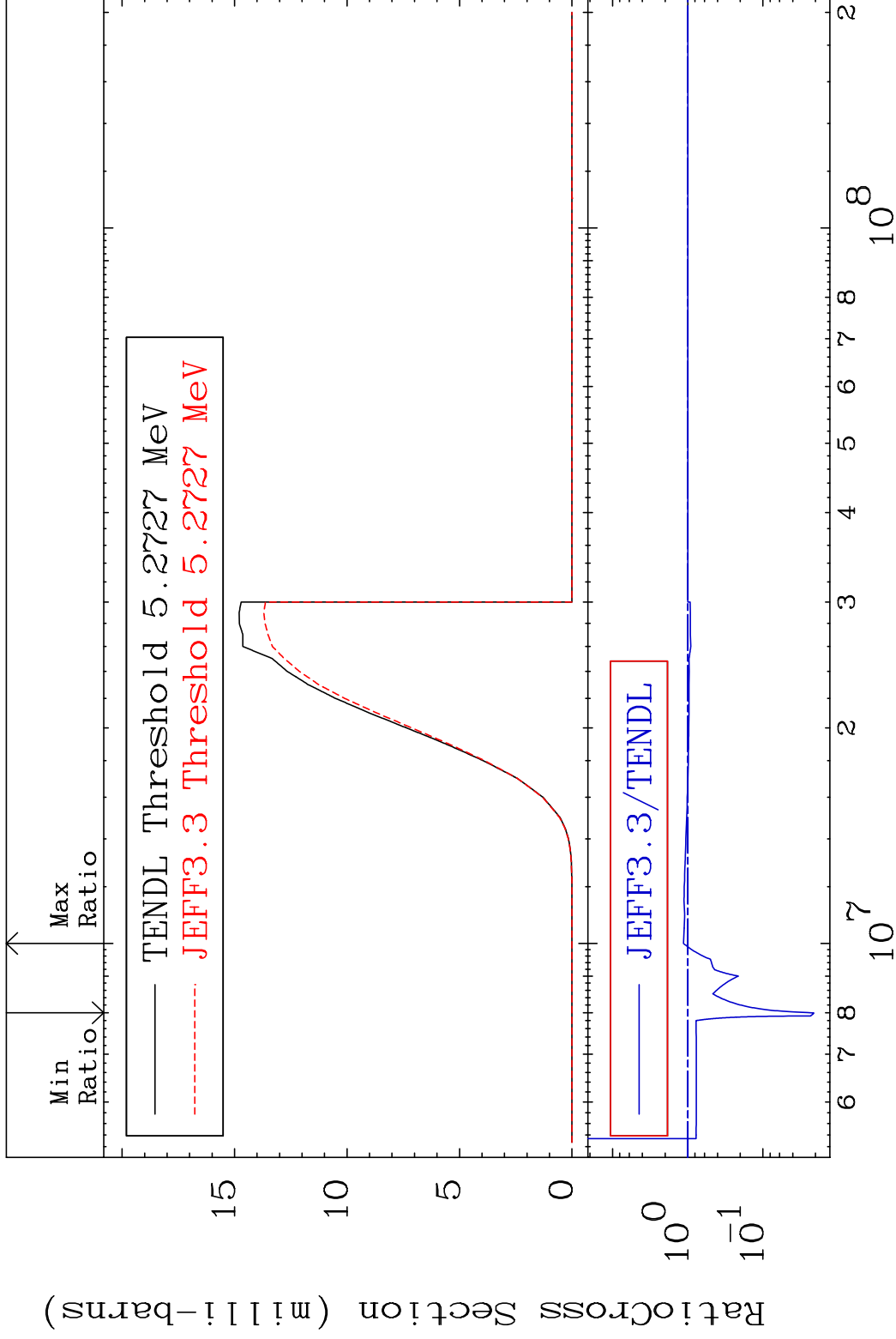


MAT 7040

(n, d)

70-Yb-173

Cross Section -97.91 To 13.97 %

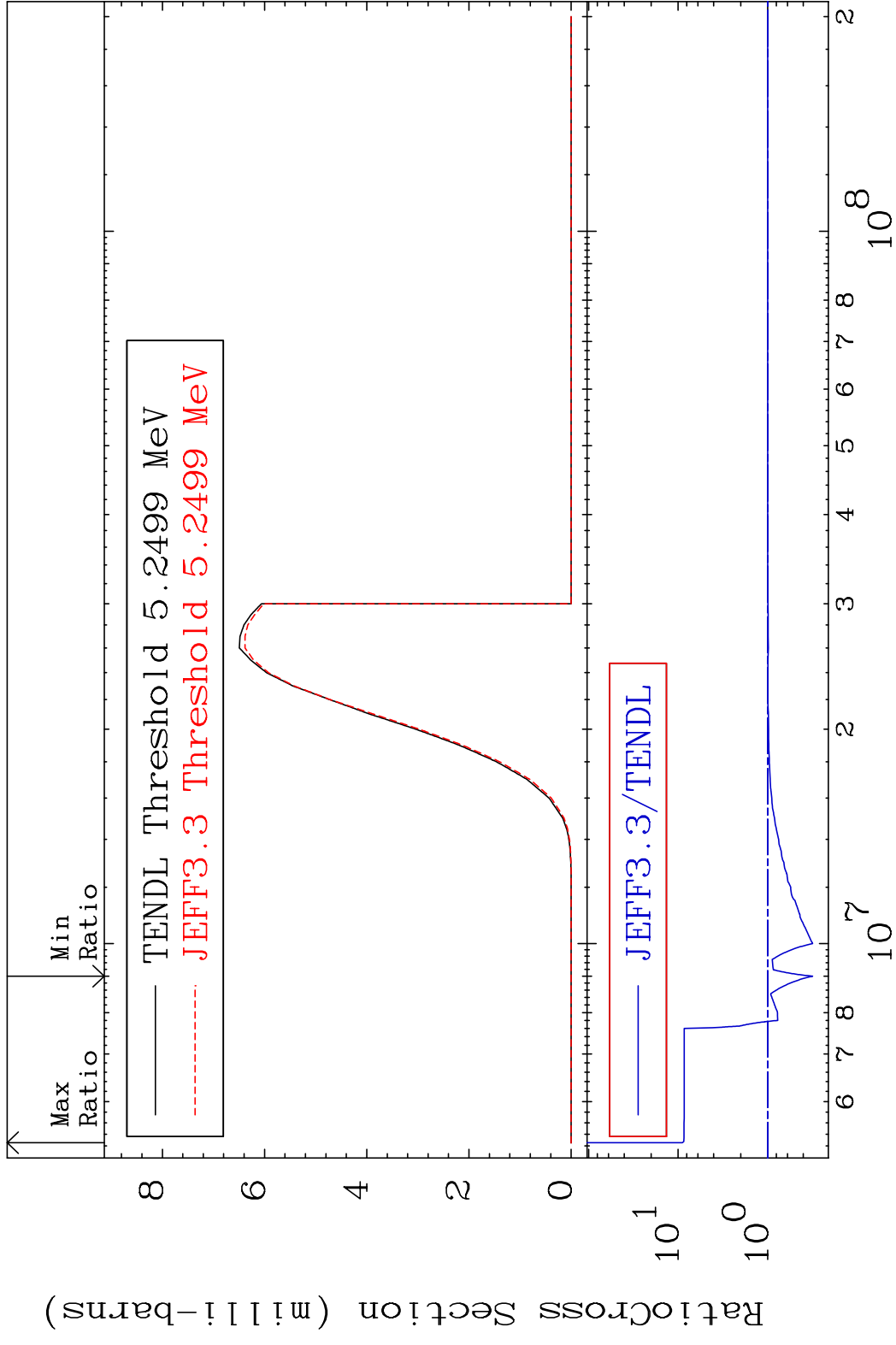


53

Incident Energy (eV)

70-Yb-173

MAT 7040 (n, t) 70-Yb-173
 Cross Section -68.50 To 796.5 %

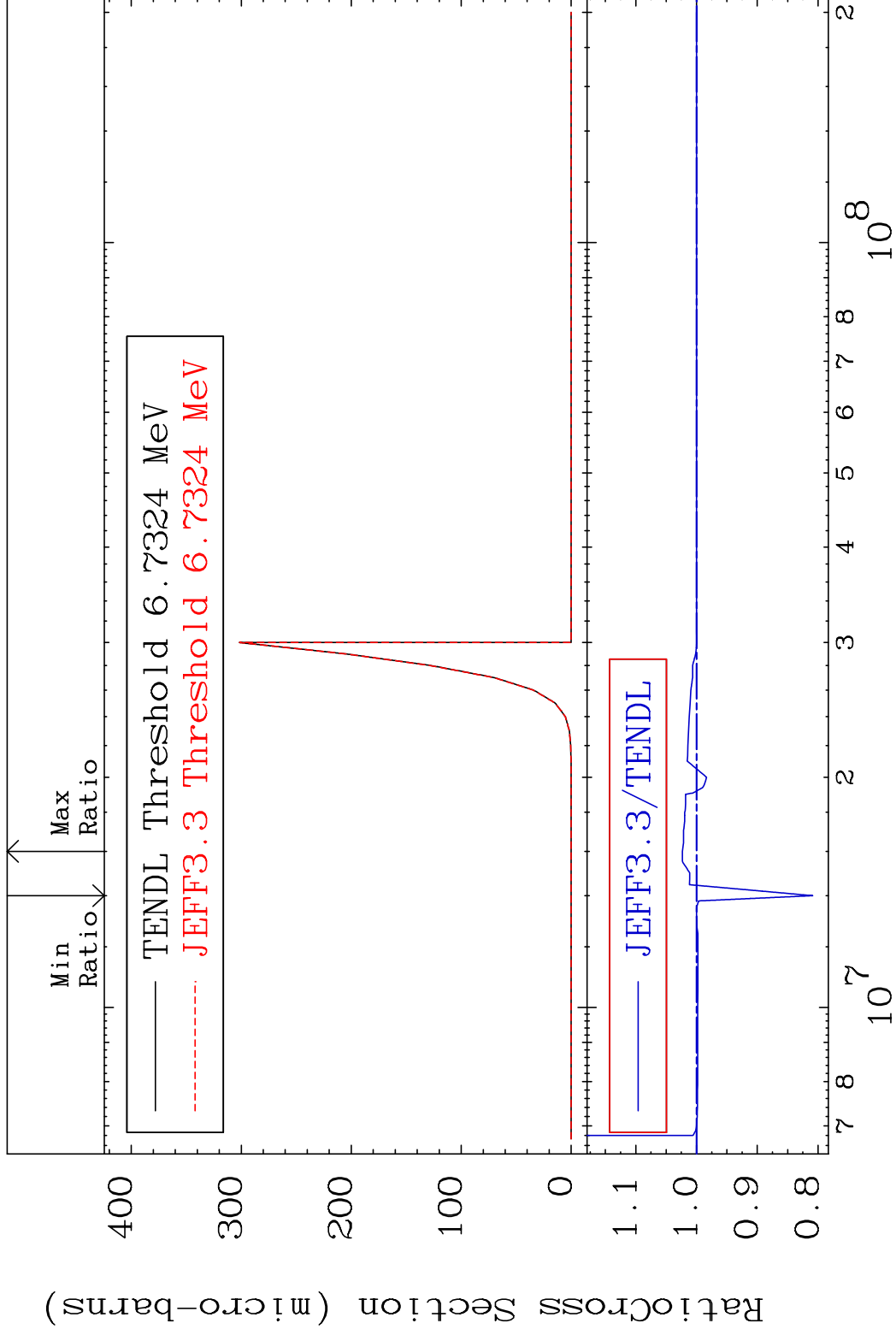


MAT 7040

(n, He-3)

70-Yb-173

Cross Section -19.09 To 2.332 %



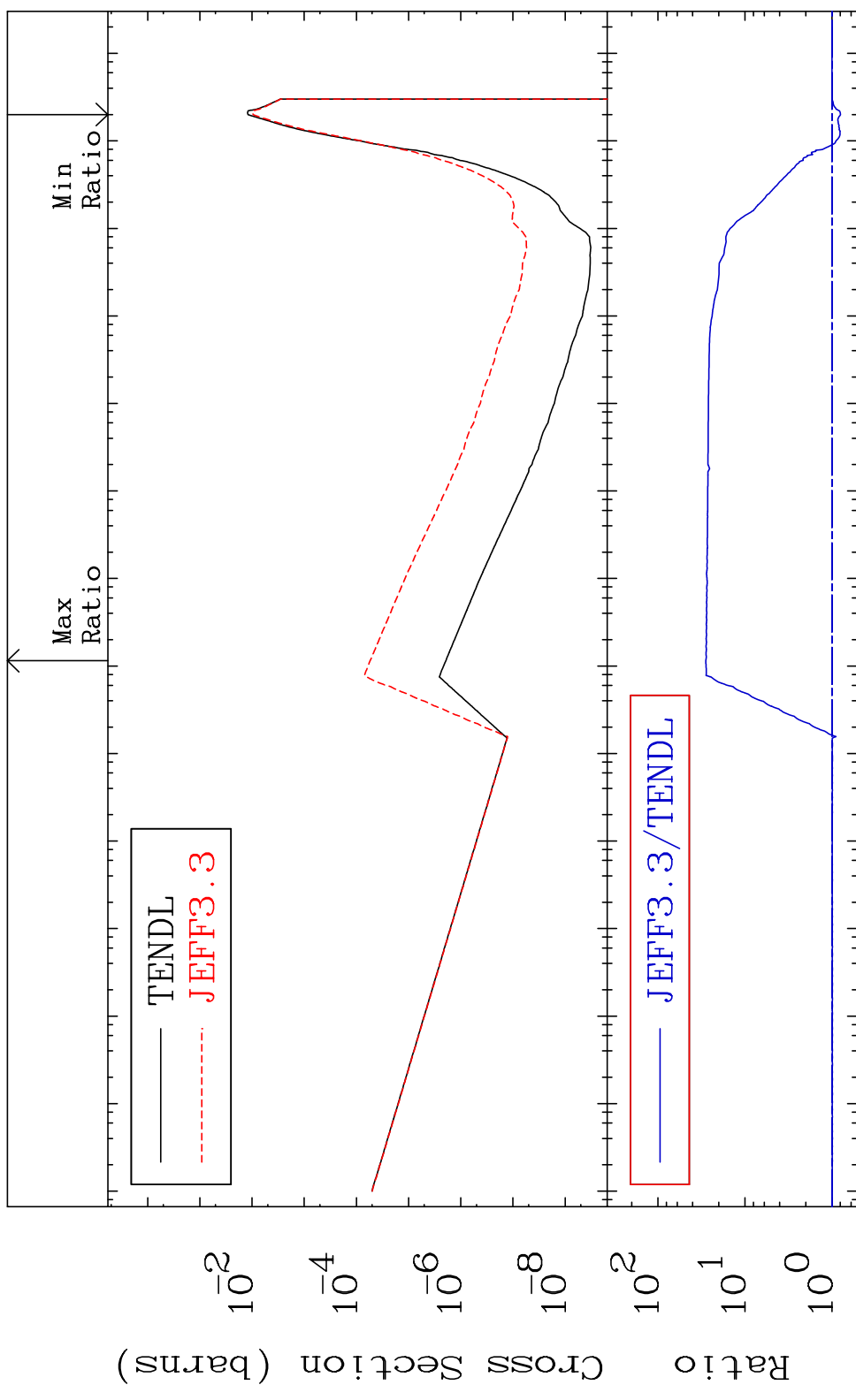
55

Incident Energy (eV)

70-Yb-173

MAT 7040

(n, α)
Cross Section -20.20 To 2723. %
70-Yb-173

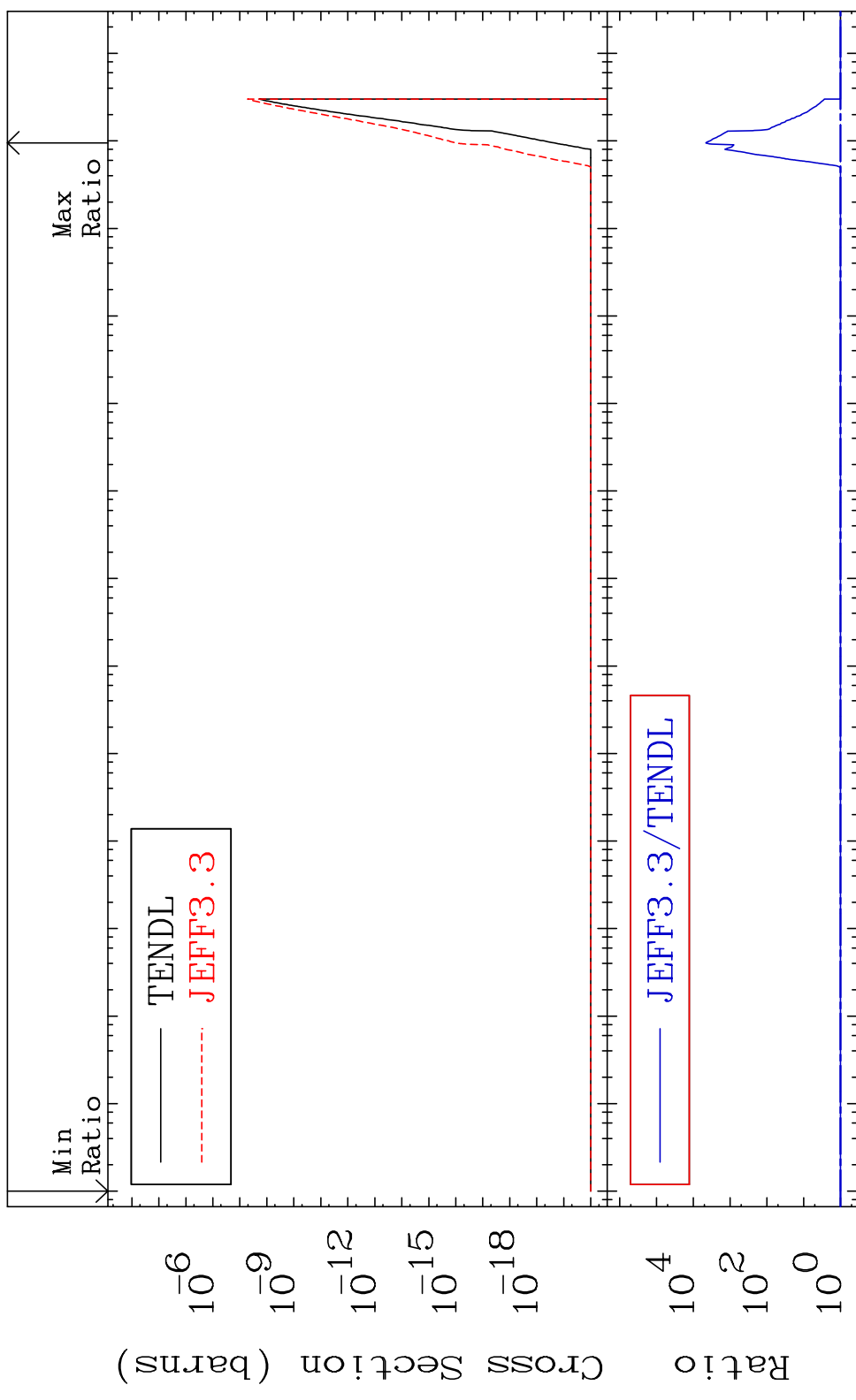


MAT 7040

(n,2α)

70-Yb-173

Cross Section 0.000 To 9999. %

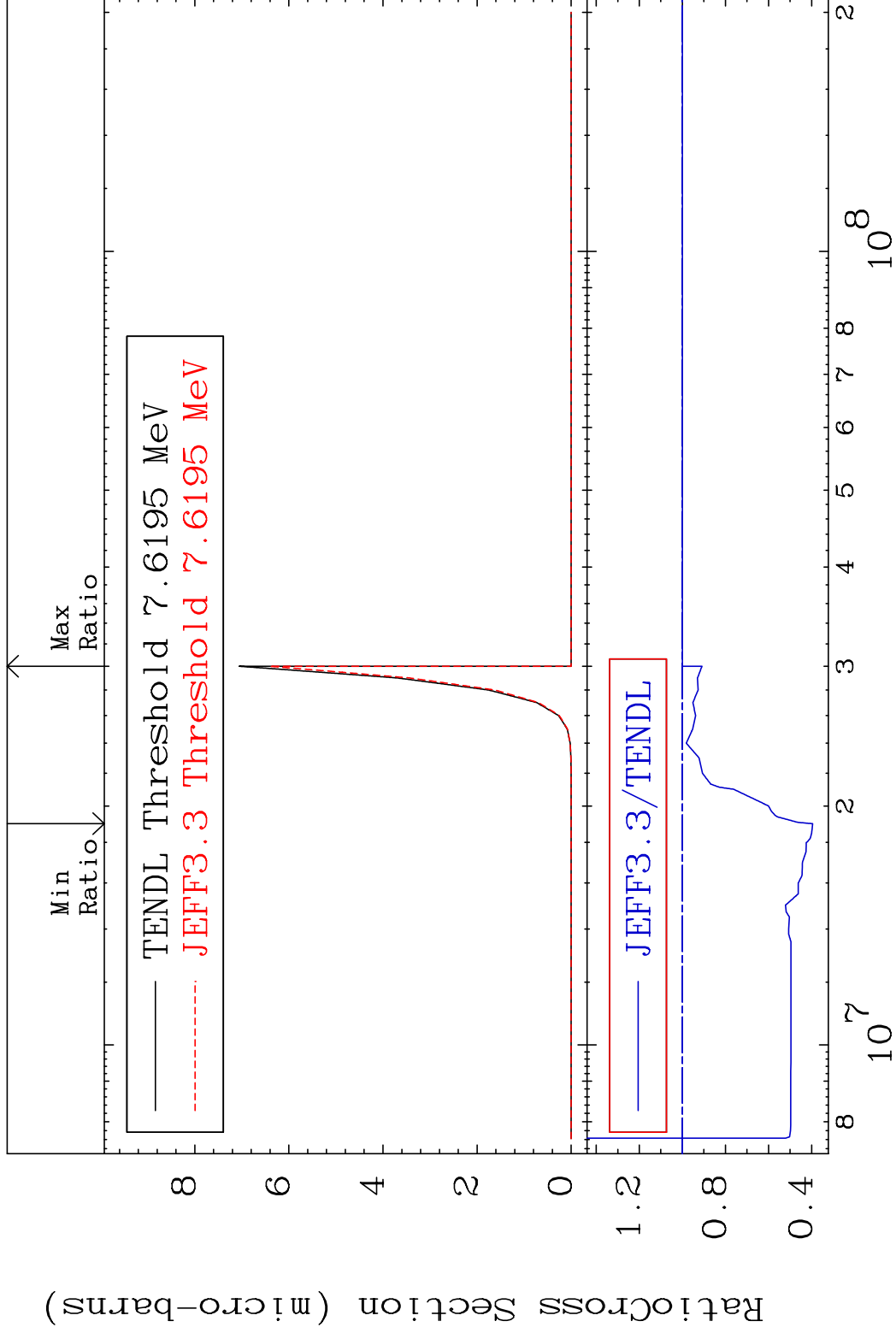


MAT 7040

(n,2p)

70-Yb-173

Cross Section -60.45 To 0.000 %



58

Incident Energy (eV)

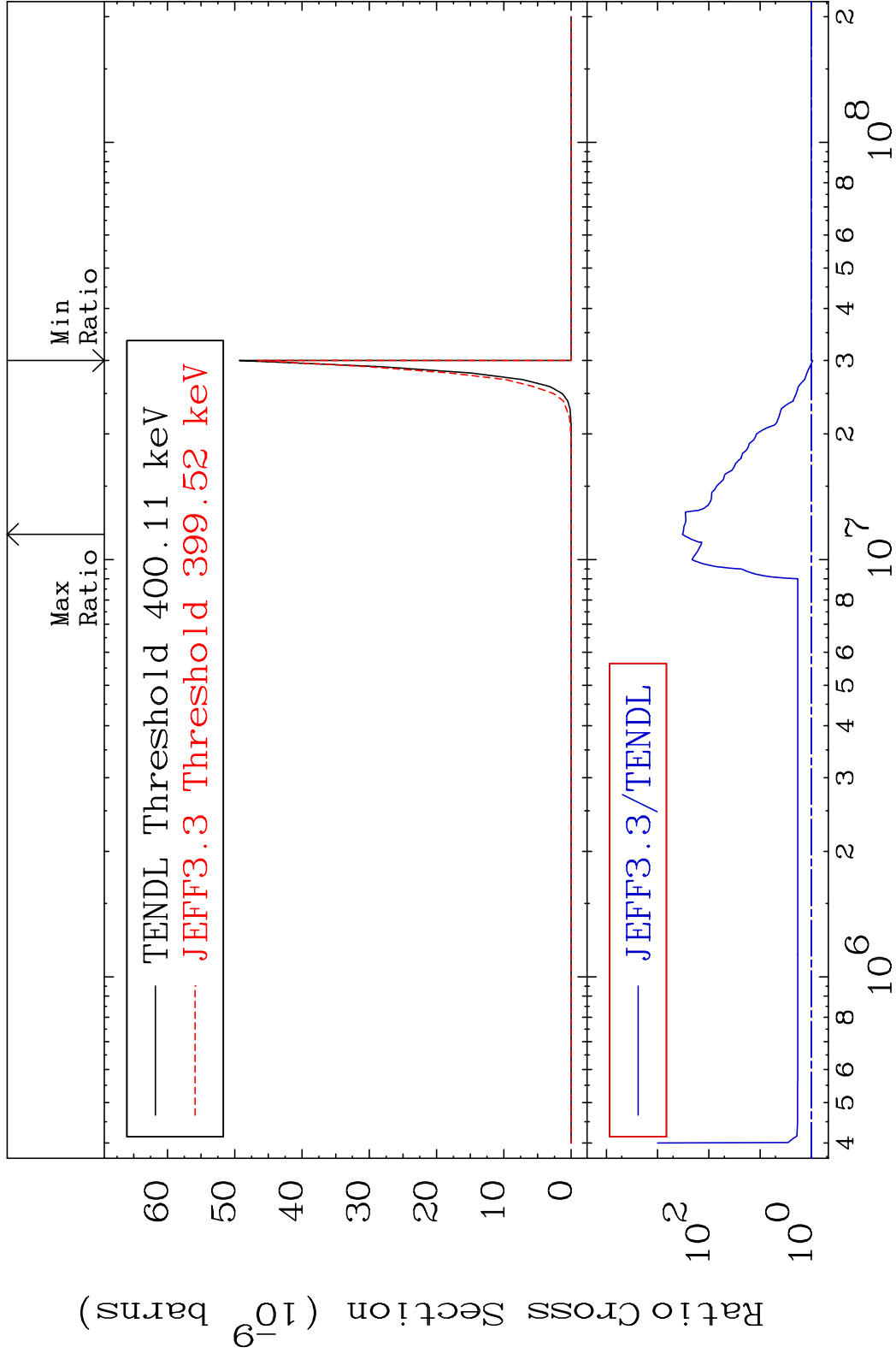
70-Yb-173

MAT 7040

(n,p) α

70-Yb-173

Cross Section -5.664 To 9999. %

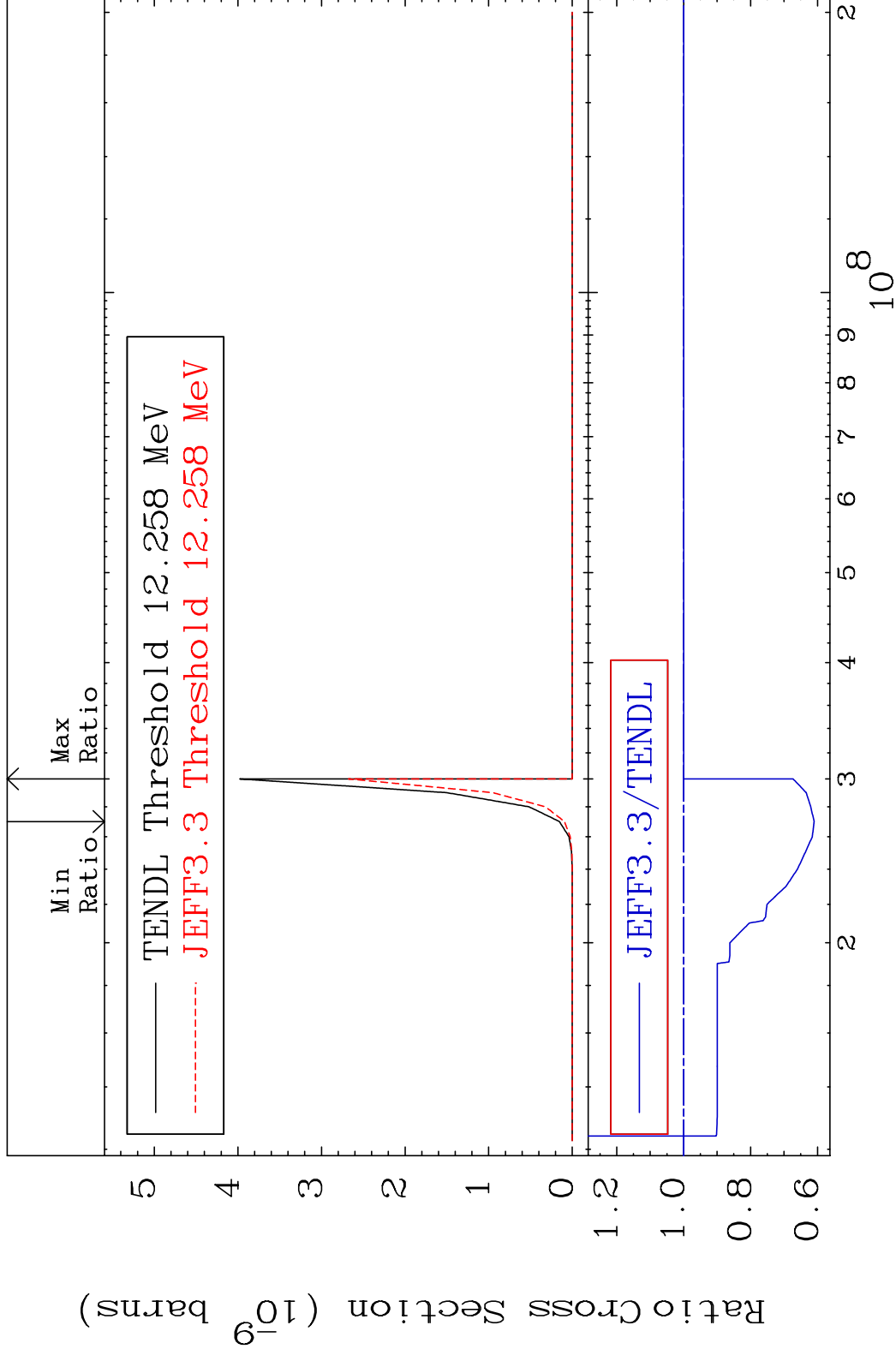


MAT 7040

(n,p) d

70-Yb-173

Cross Section -38.99 To 0.000 %

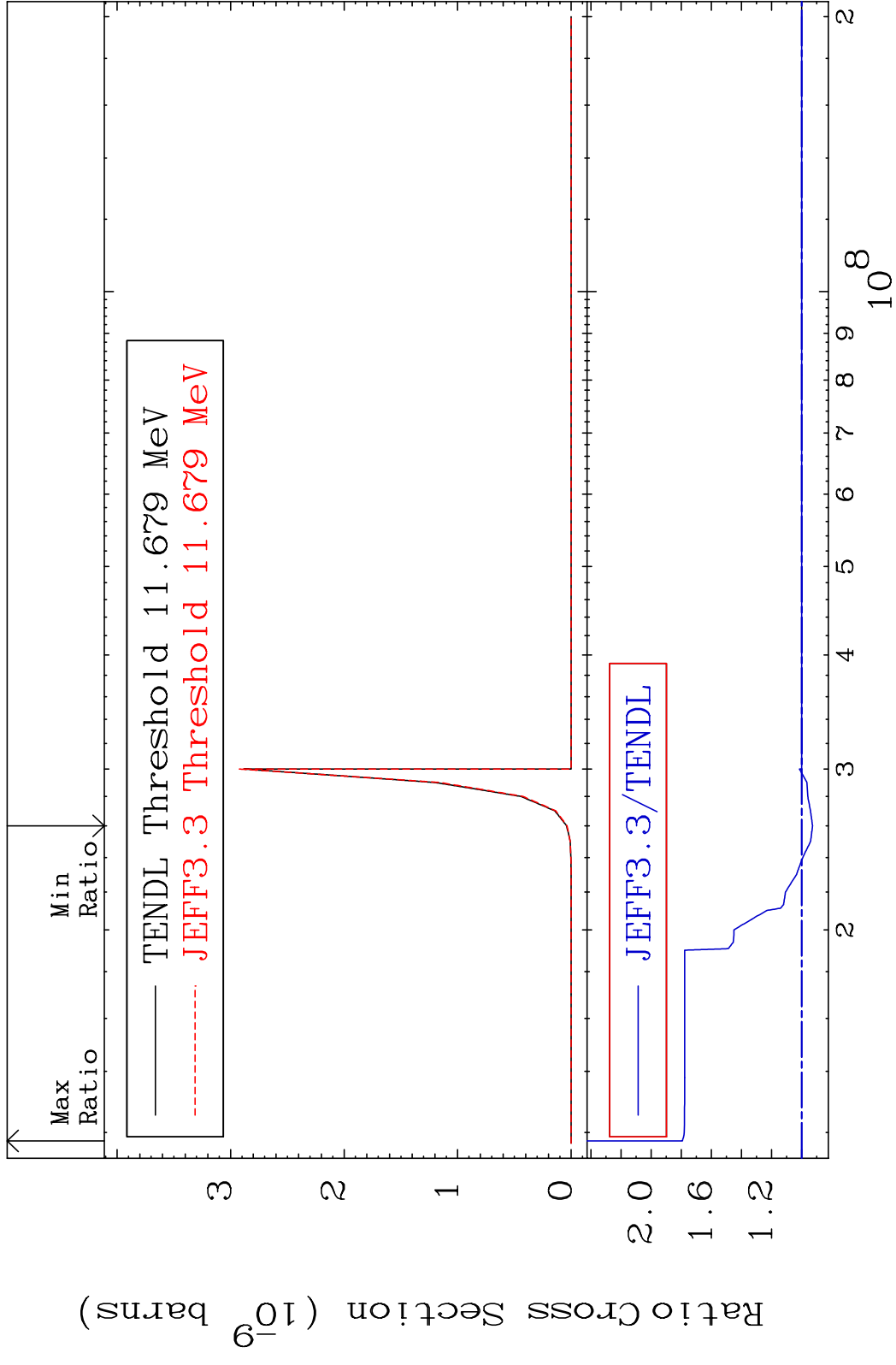


60

Incident Energy (eV)

70-Yb-173

MAT 7040 (n,p) t 70-Yb-173
 Cross Section -7.271 To 79.24 %

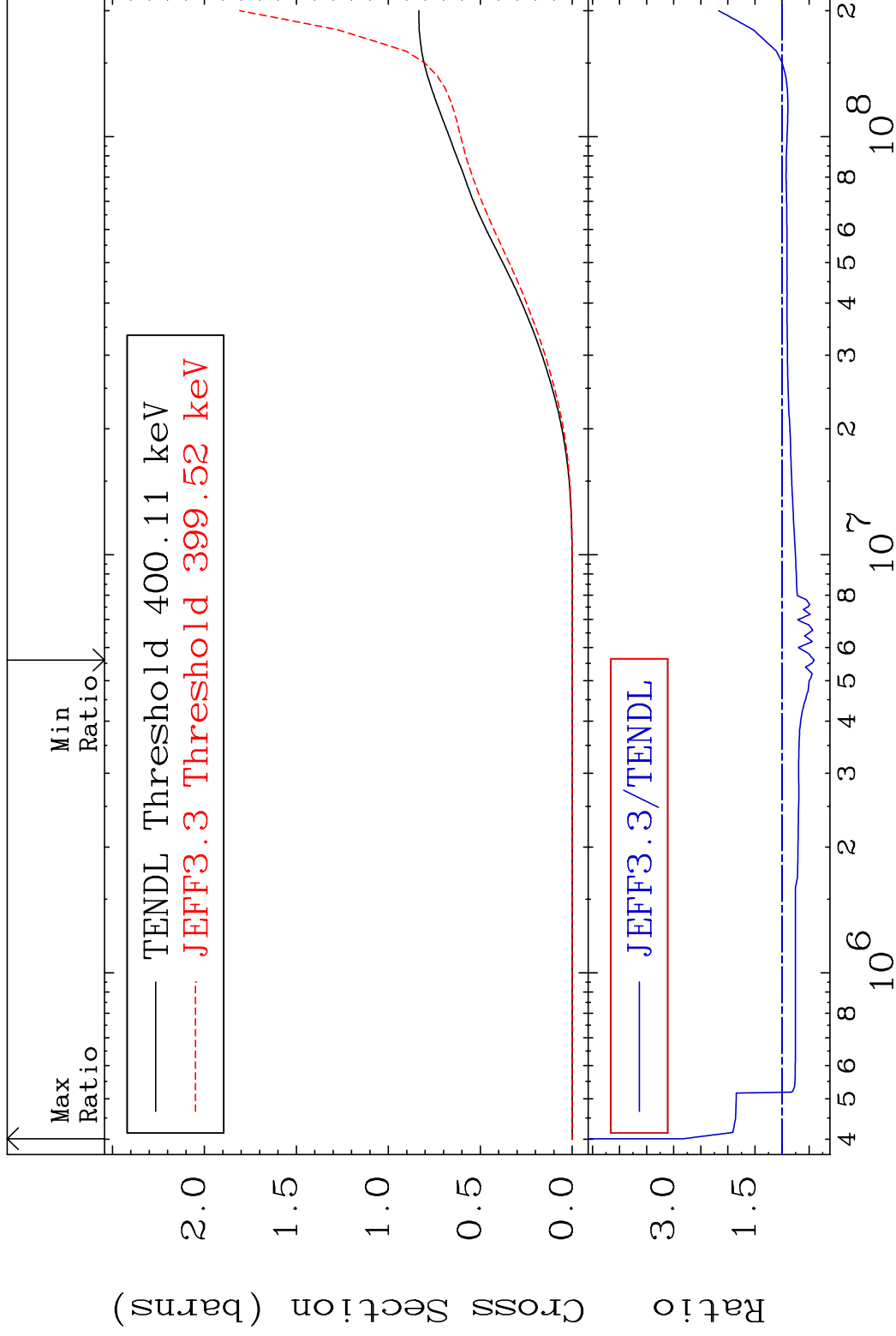


MAT 7040

Hydrogen Production

70-Yb-173

Cross Section -59.23 To 181.6 %

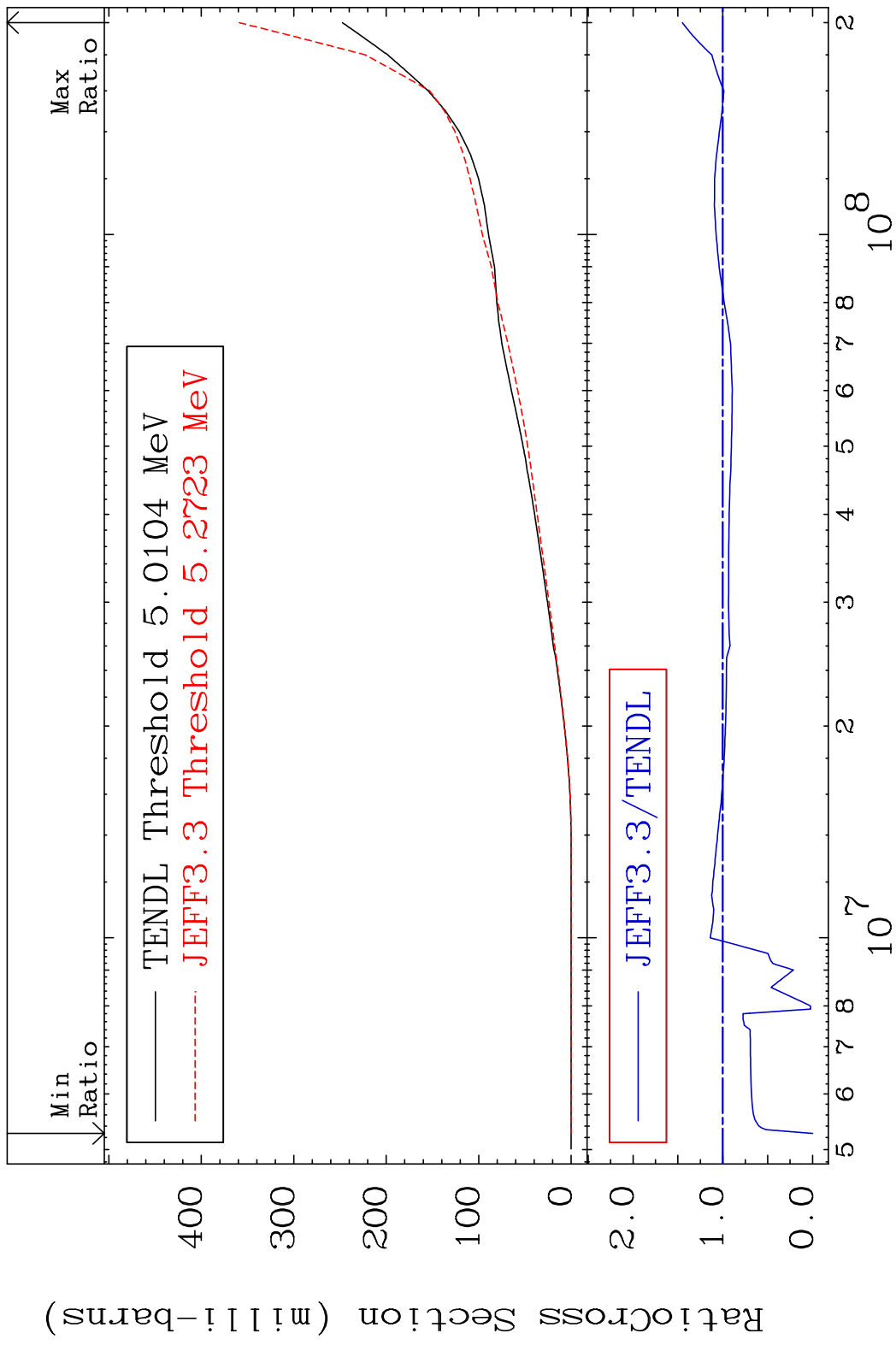


62

Incident Energy (eV)

70-Yb-173

MAT 7040 Deuterium Production 70-Yb-173
 Cross Section -100.0 To 45.07 %



63 Incident Energy (eV) 70-Yb-173

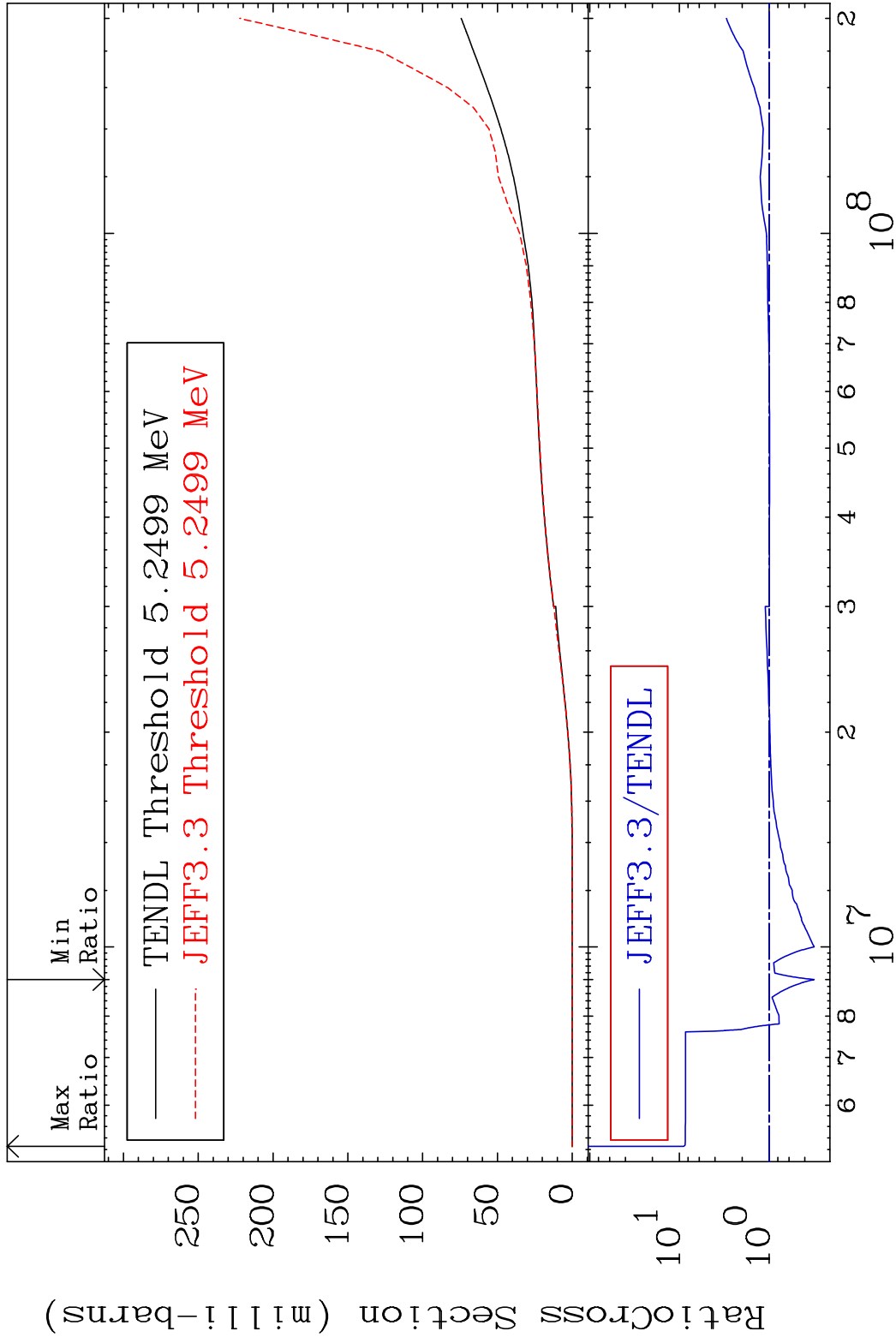
MAT 7040

Tritium Production

70-Yb-173

Cross Section

-68.50 To 796.5 %



64

Incident Energy (eV)

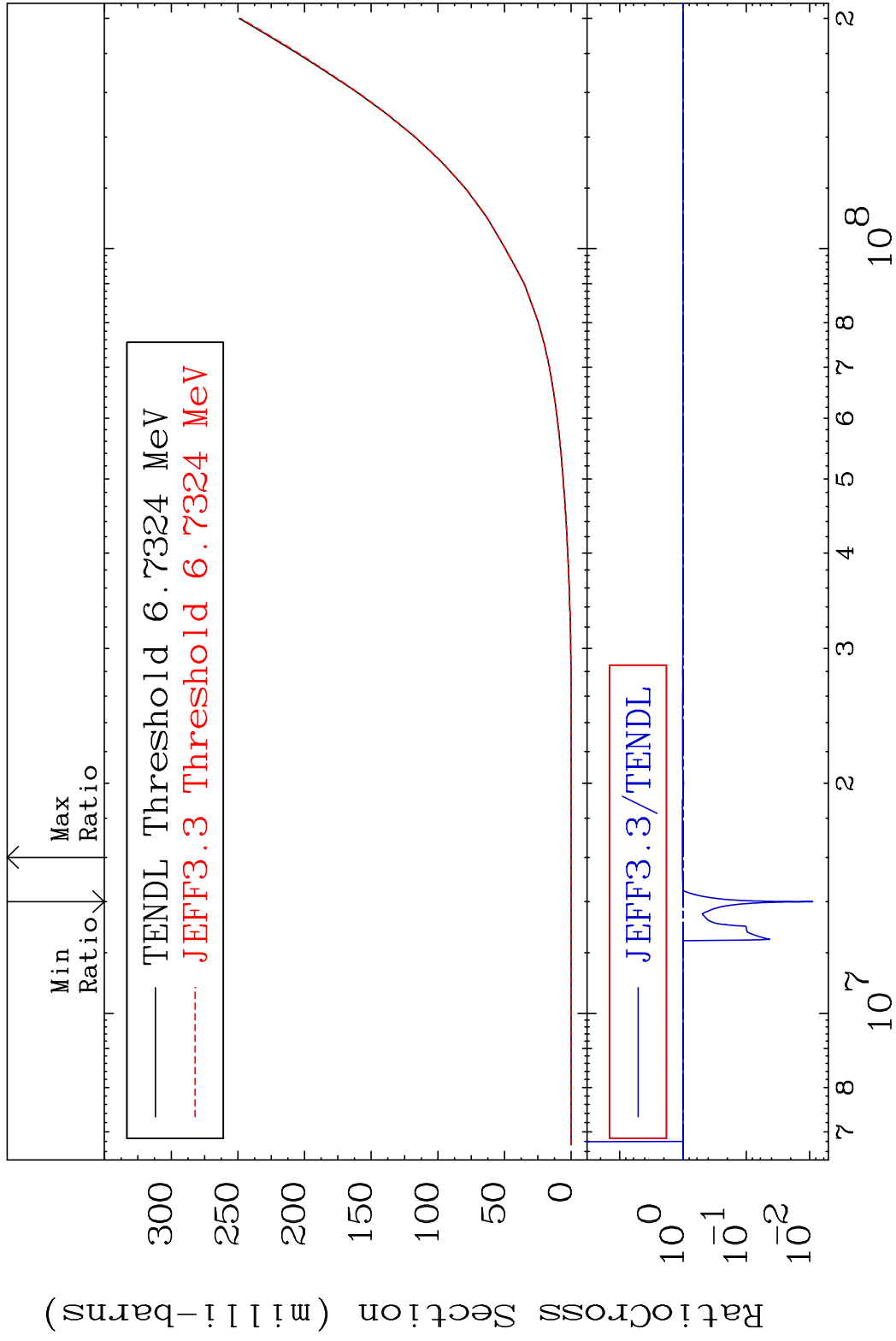
70-Yb-173

MAT 7040

He-3 Production

70-Yb-173

Cross Section -99.10 To 2.327 %

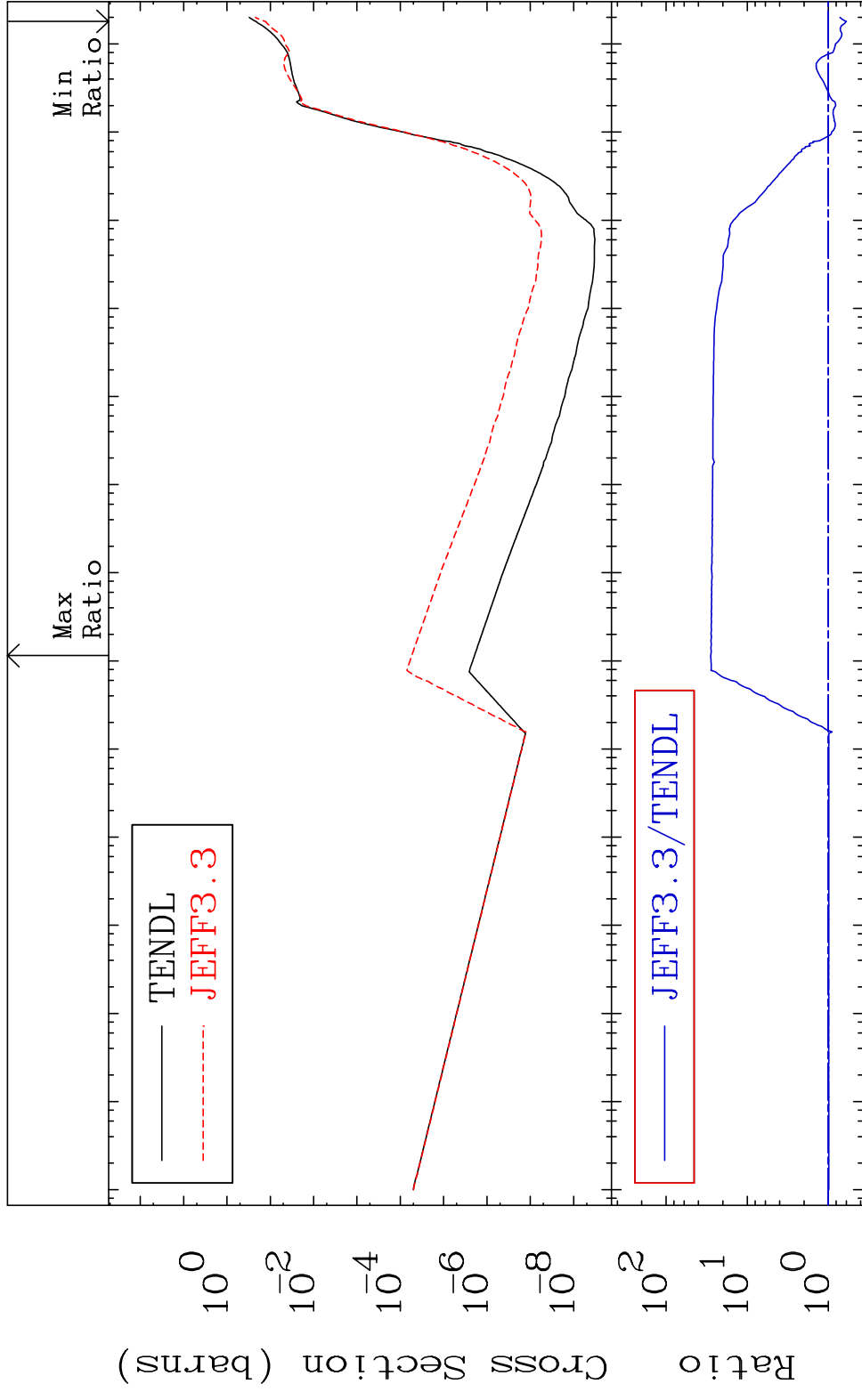


MAT 7040

He-4 Production

70-Yb-173

Cross Section -39.85 To 2723. %

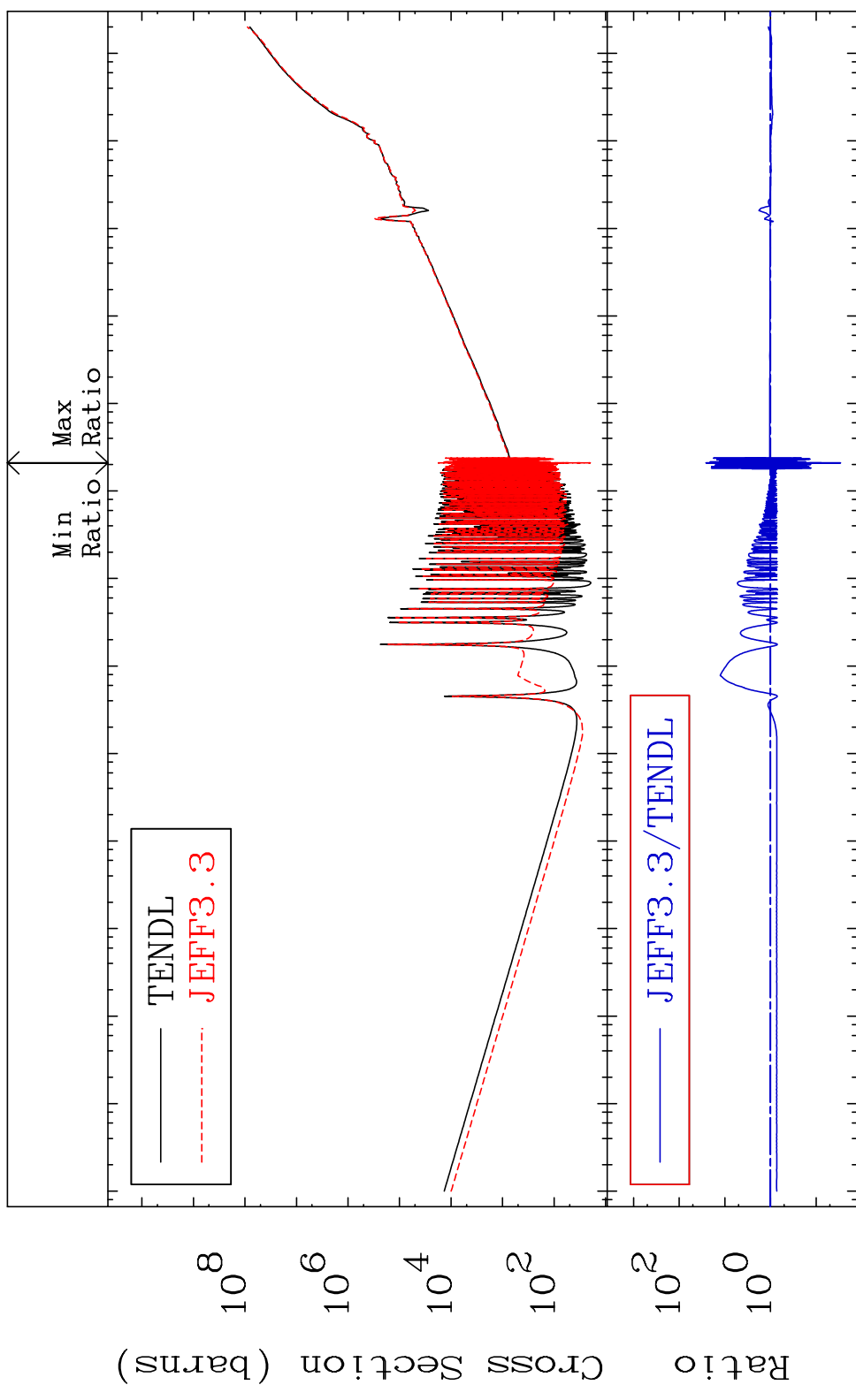


MAT 7040

Kerma total (eV-barns)

70-Yb-173

Cross Section -97.07 To 2517. %

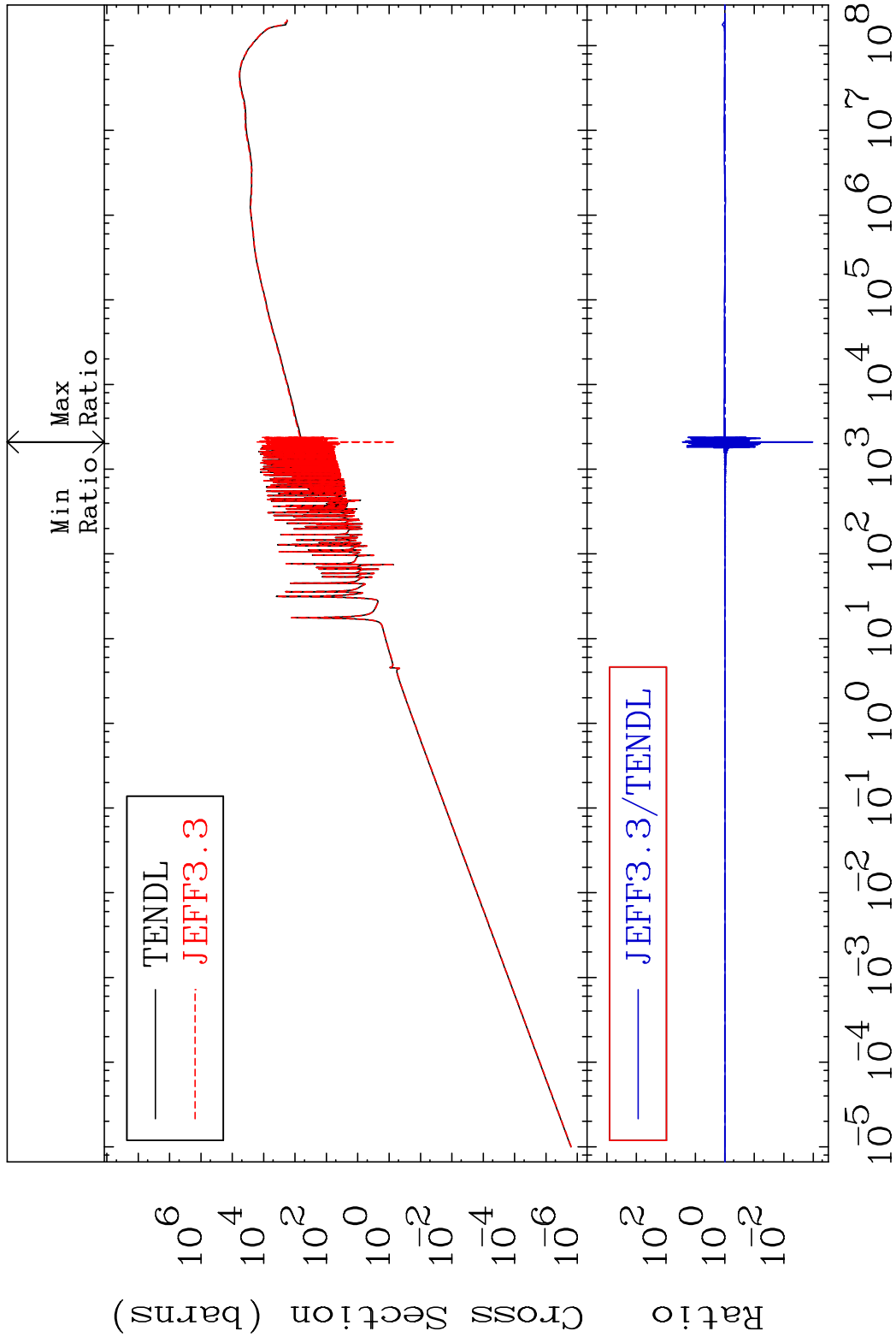


MAT 7040

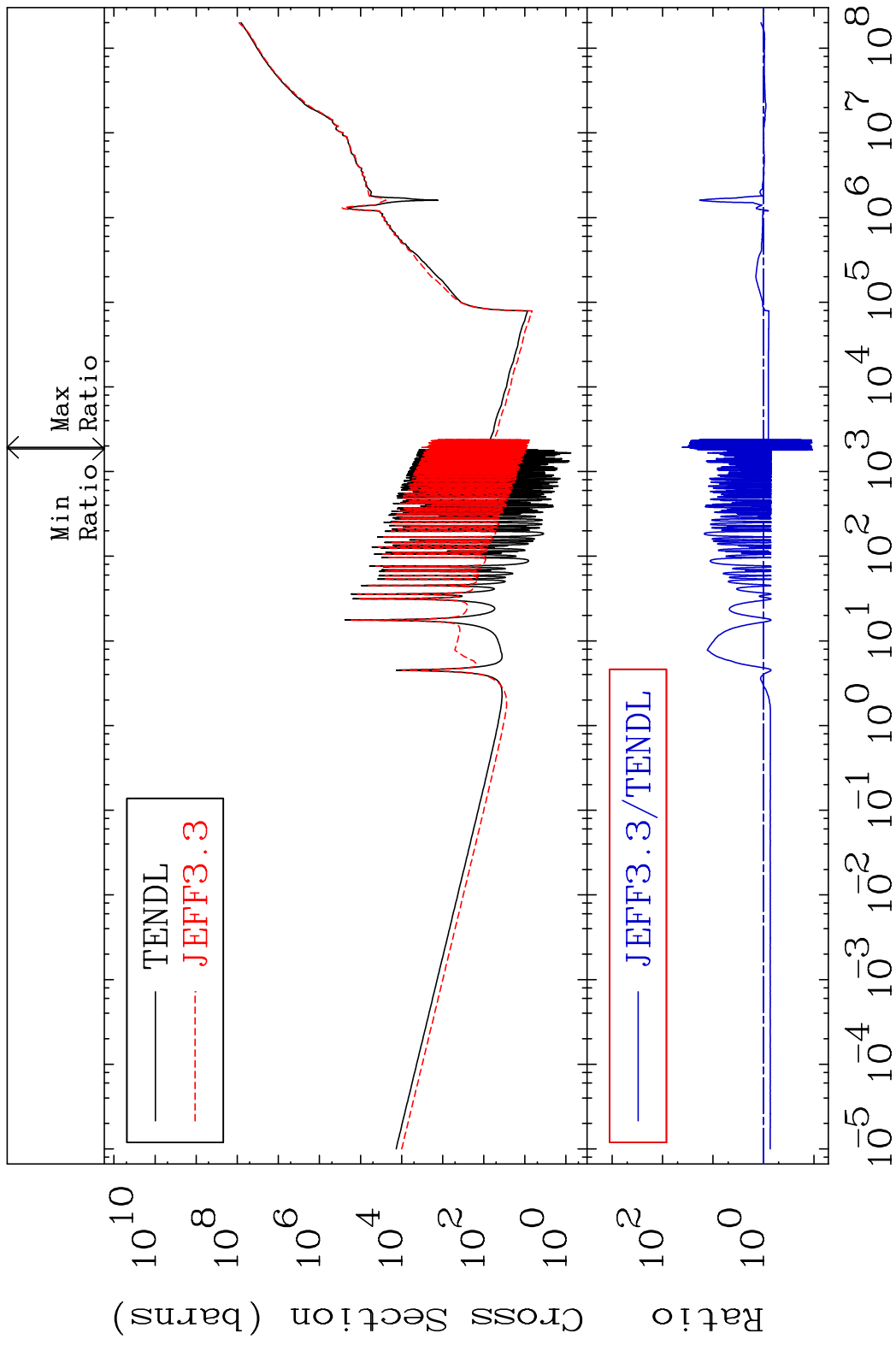
Kerma elastic

70-Yb-173

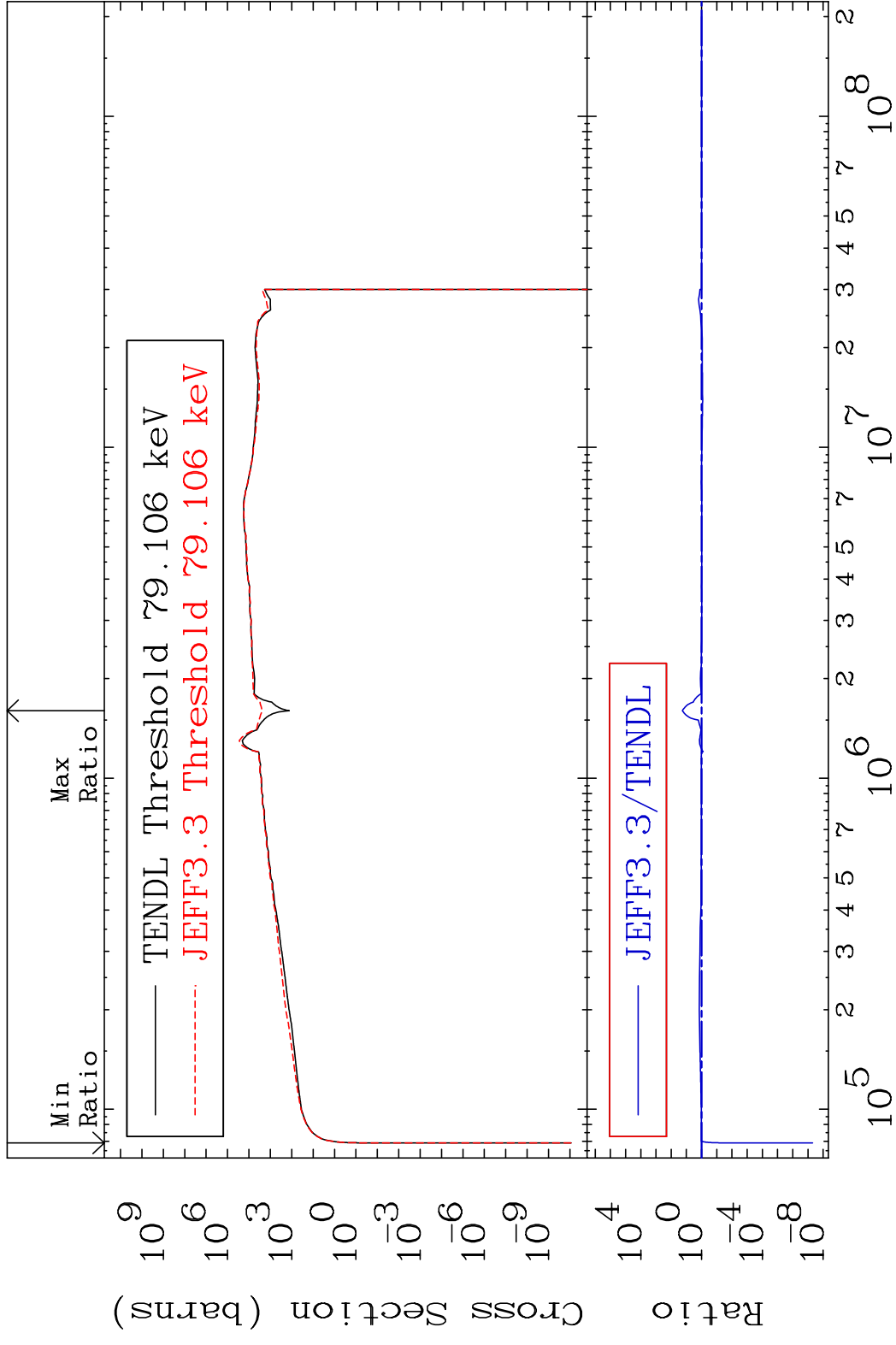
Cross Section -99.89 To 2663. %



MAT 7040 Kerma non-elastic (all but mt2) 70-Yb-173
 Cross Section -89.37 To 3944. %

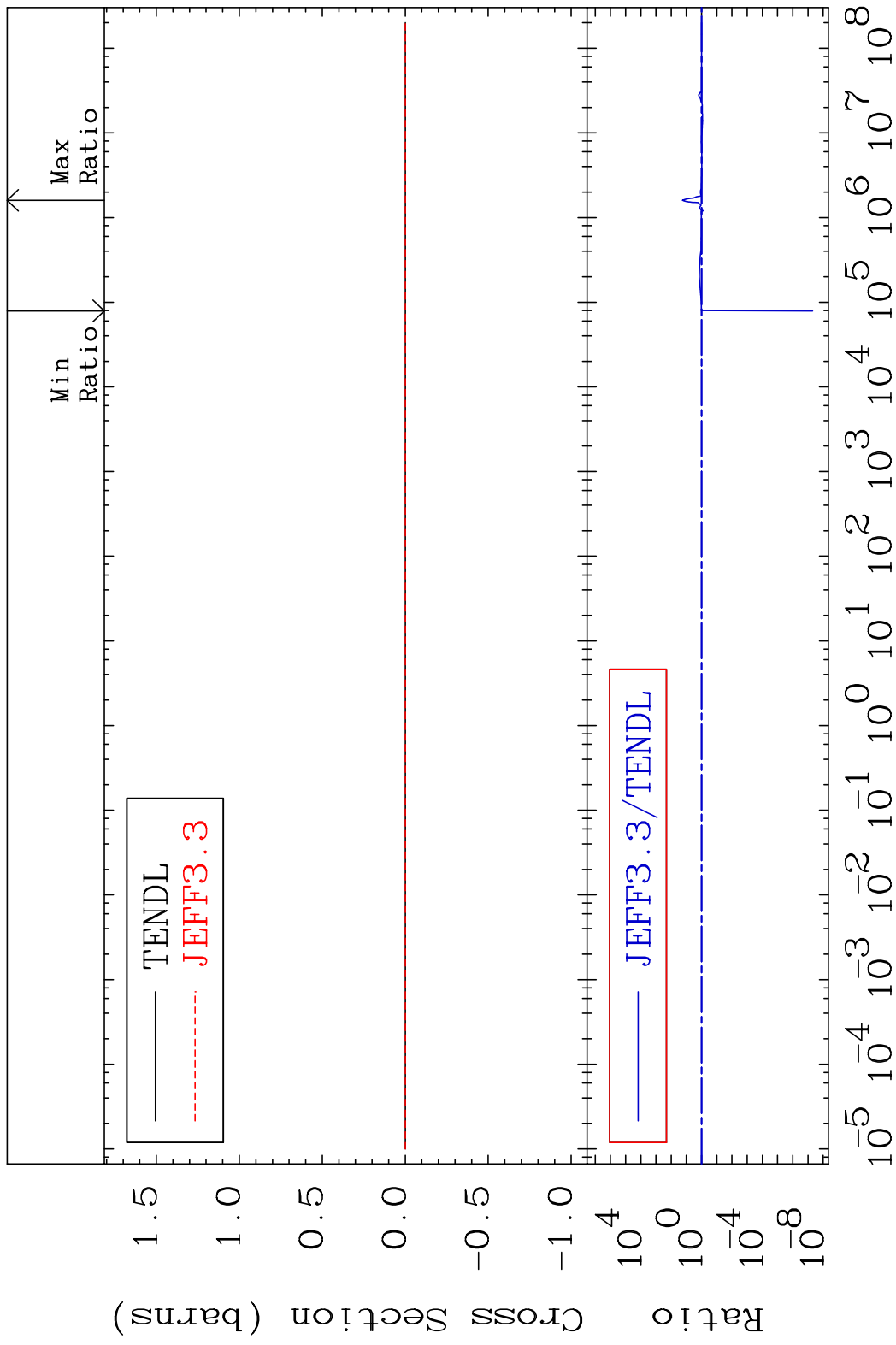


MAT 7040 Kerma inelastic (mt51-91) 70-Yb-173
 Cross Section -100.0 To 1739. %



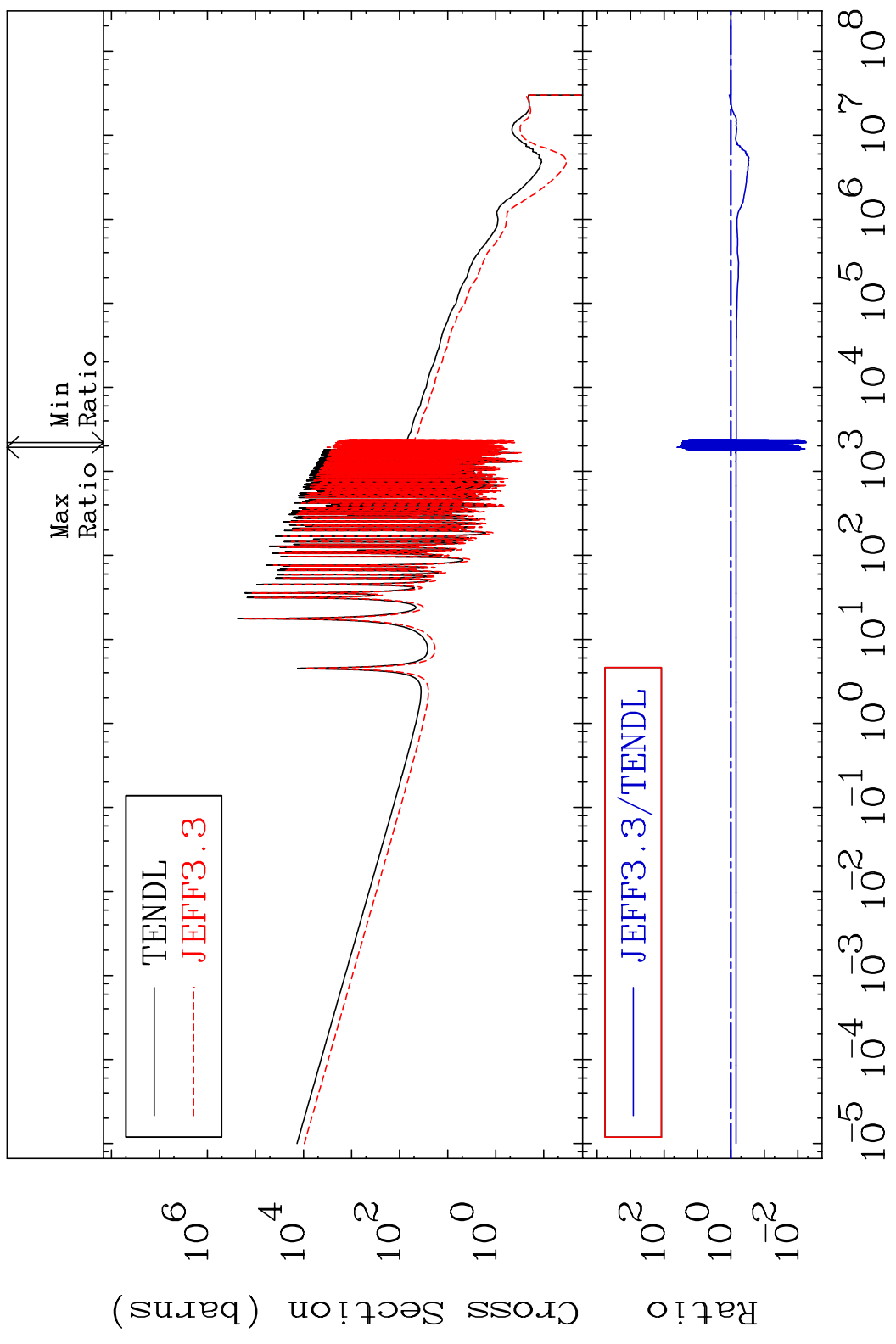
70 Incident Energy (eV) 70-Yb-173

MAT 7040 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-173
 Cross Section -100.0 To 1739. %



MAT 7040

Kerma capture (mt102) 70-Yb-173
Cross Section -99.45 To 3949. %

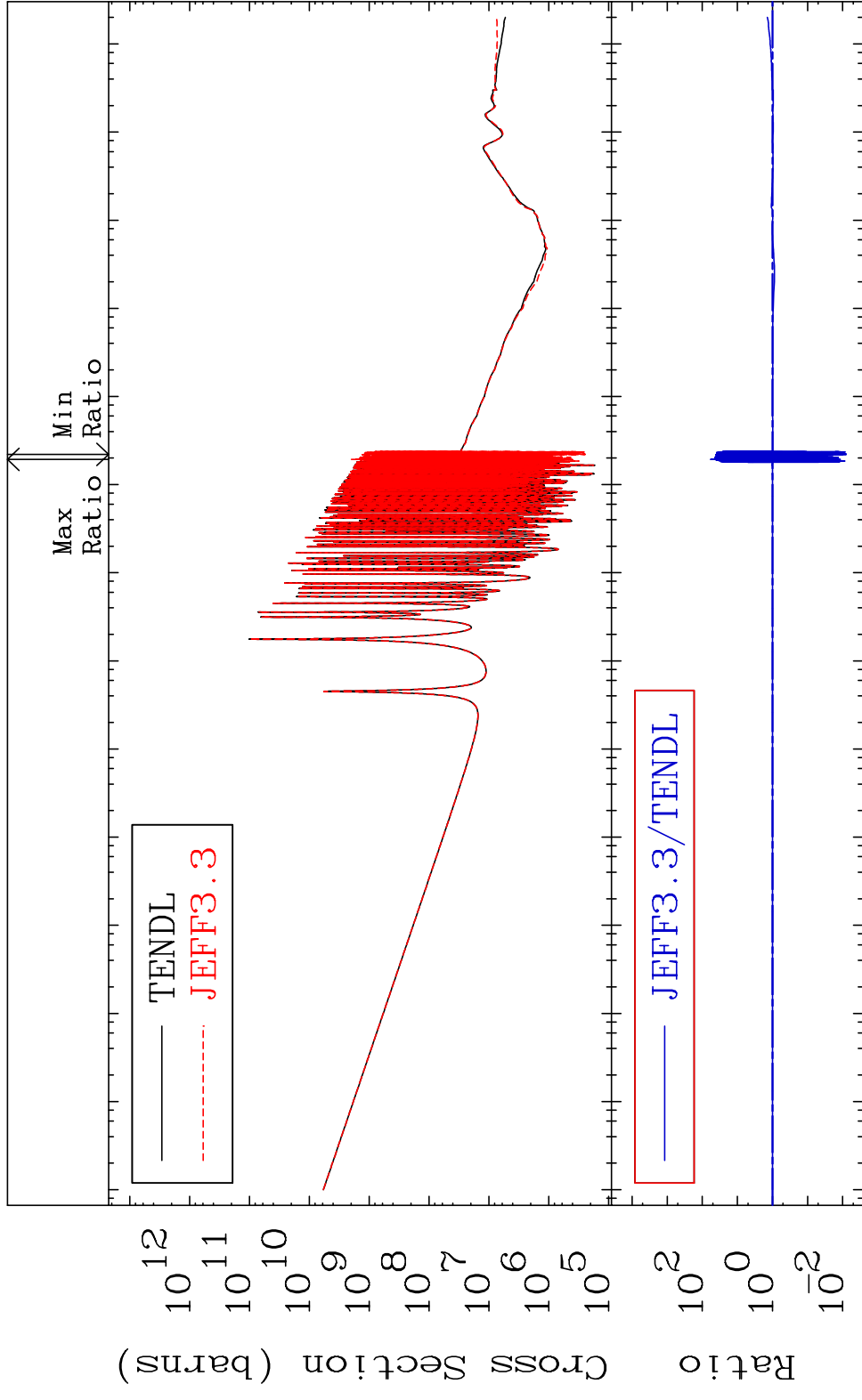


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Incident Energy (eV) 70-Yb-173

MAT 7040

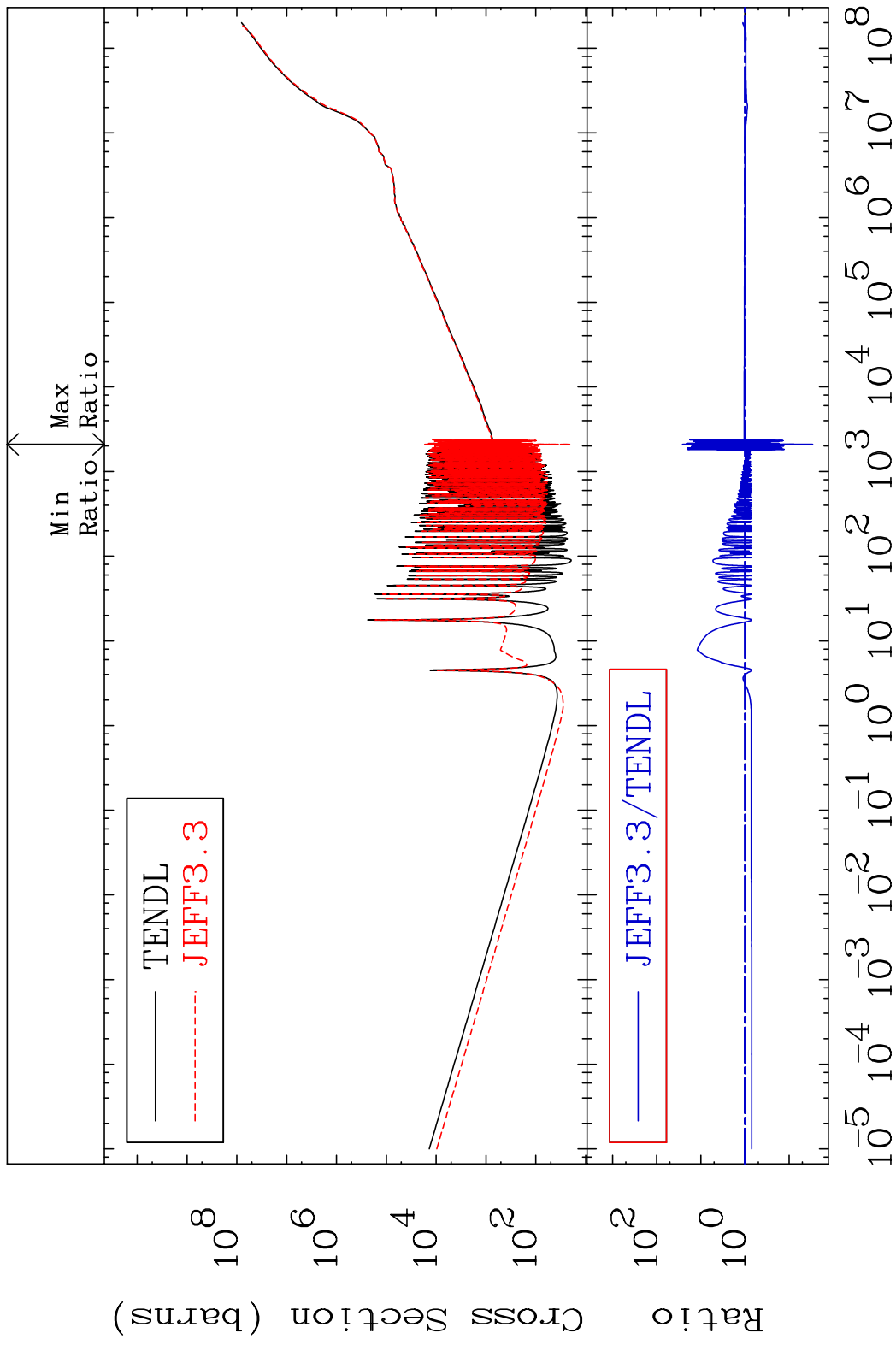
Total photon (eV-barns) 70-Yb-173
Cross Section -99.21 To 5658. %



73

Incident Energy (eV) 70-Yb-173

MAT 7040 Total kinematic kerma (high limit) 70-Yb-173
 Cross Section -97.06 To 2517. %

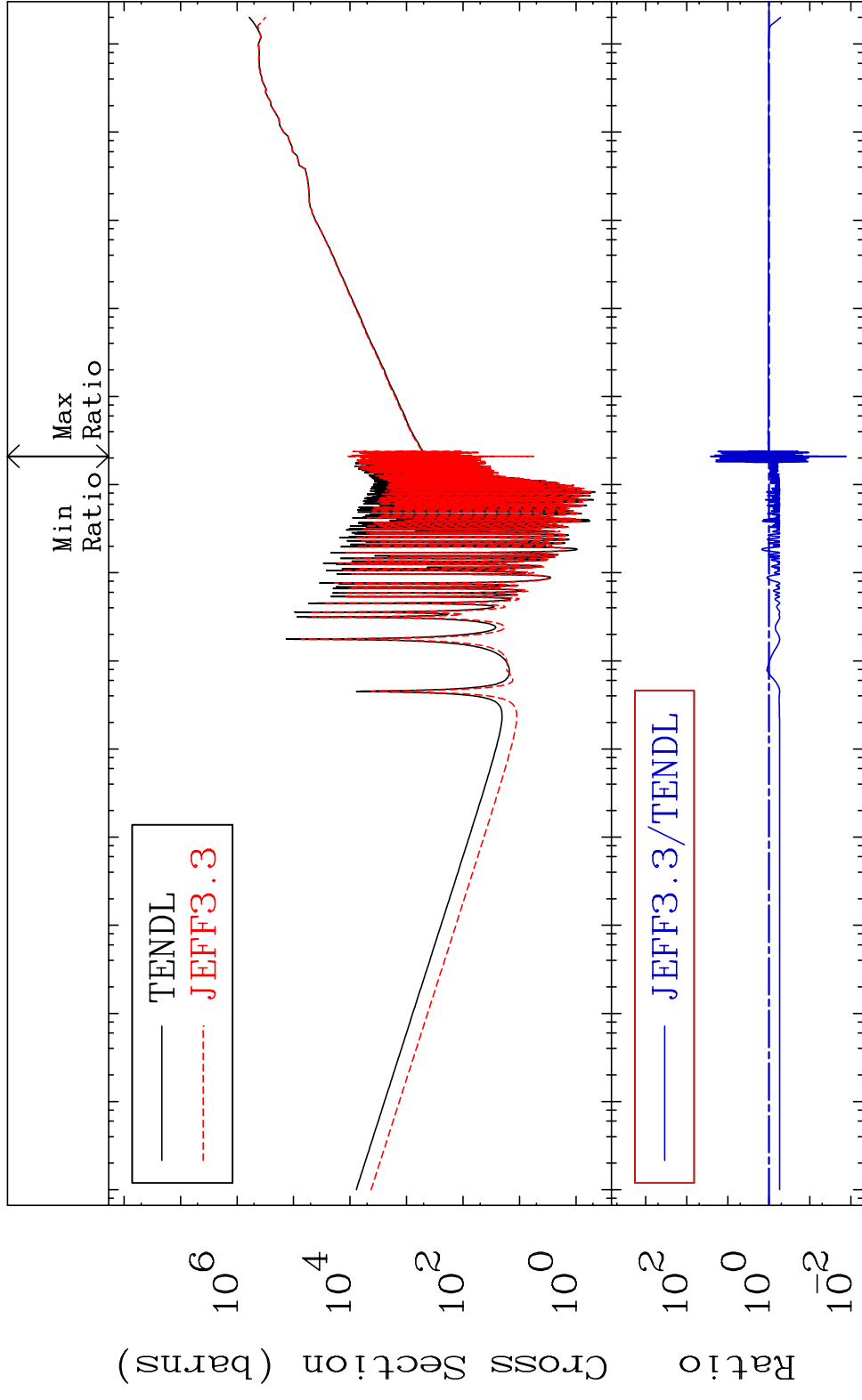


MAT 7040

Dpa total (eV-barns)

70-Yb-173

Cross Section -98.71 To 2505. %



75

Incident Energy (eV)

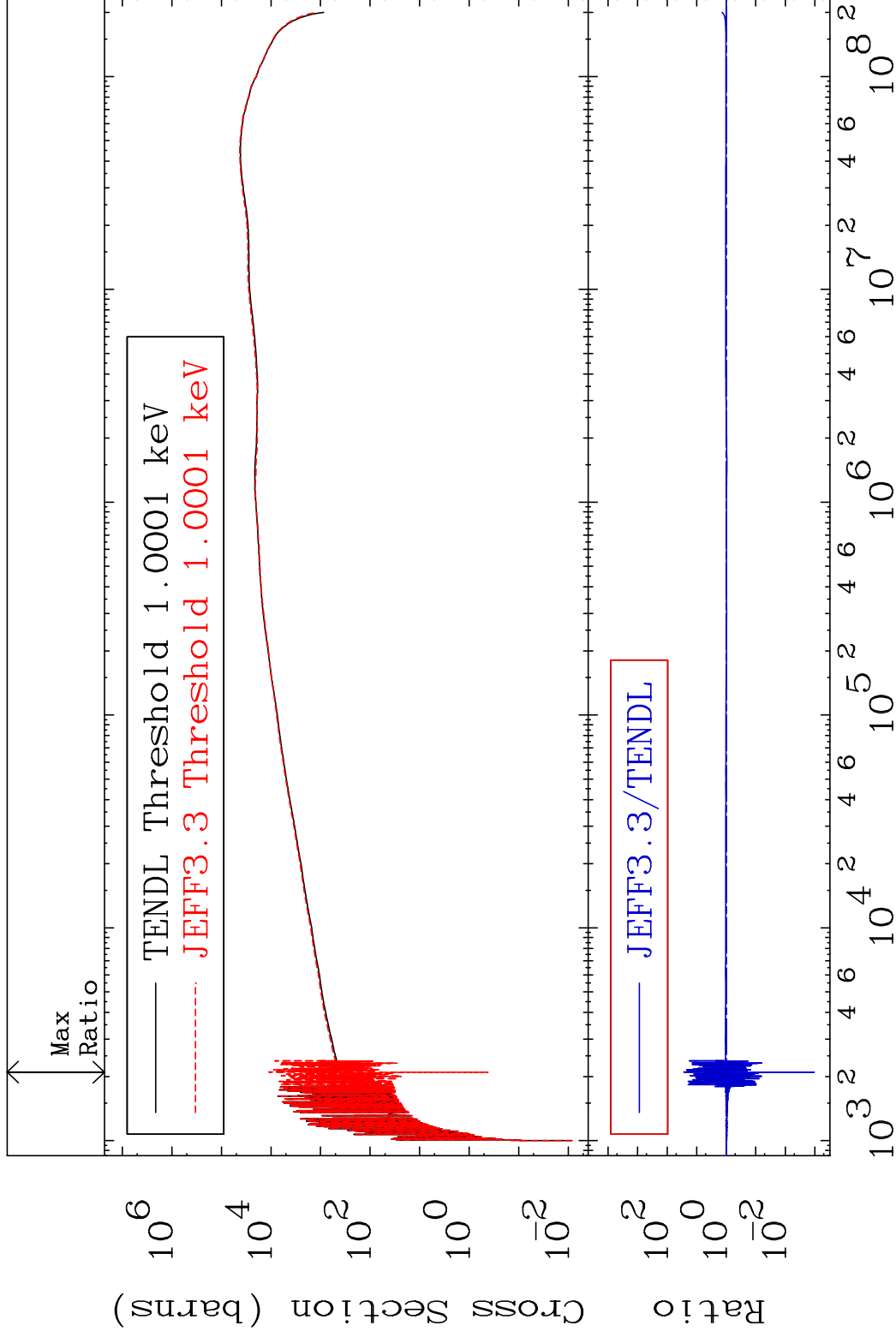
70-Yb-173

MAT 7040

Dpa elastic (mt2)

70-Yb-173

Cross Section -99.89 To 2665. %



76

Incident Energy (eV)

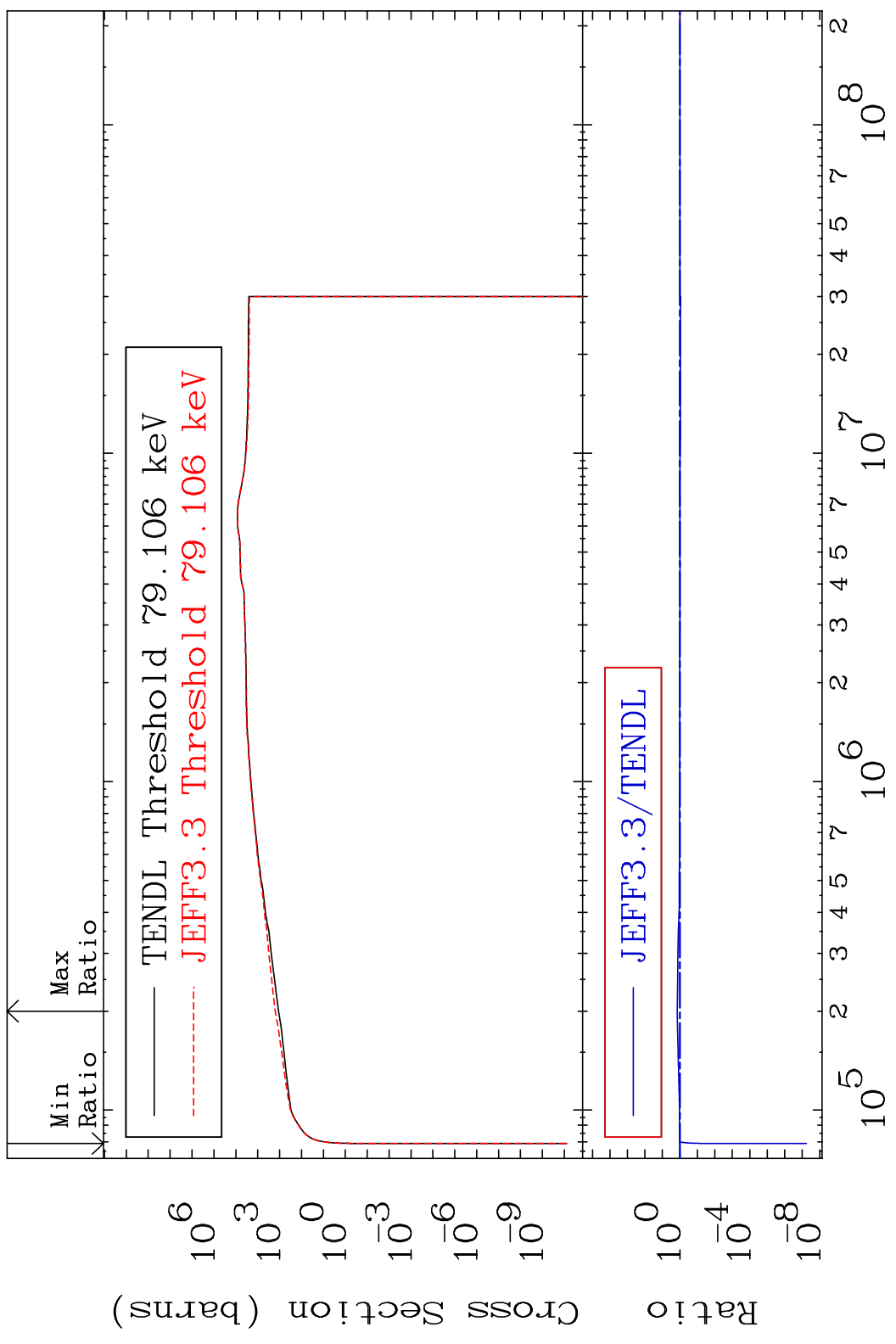
70-Yb-173

MAT 7040

Dpa inelastic (mt51-91)

70-Yb-173

Cross Section -100.0 To 42.43 %

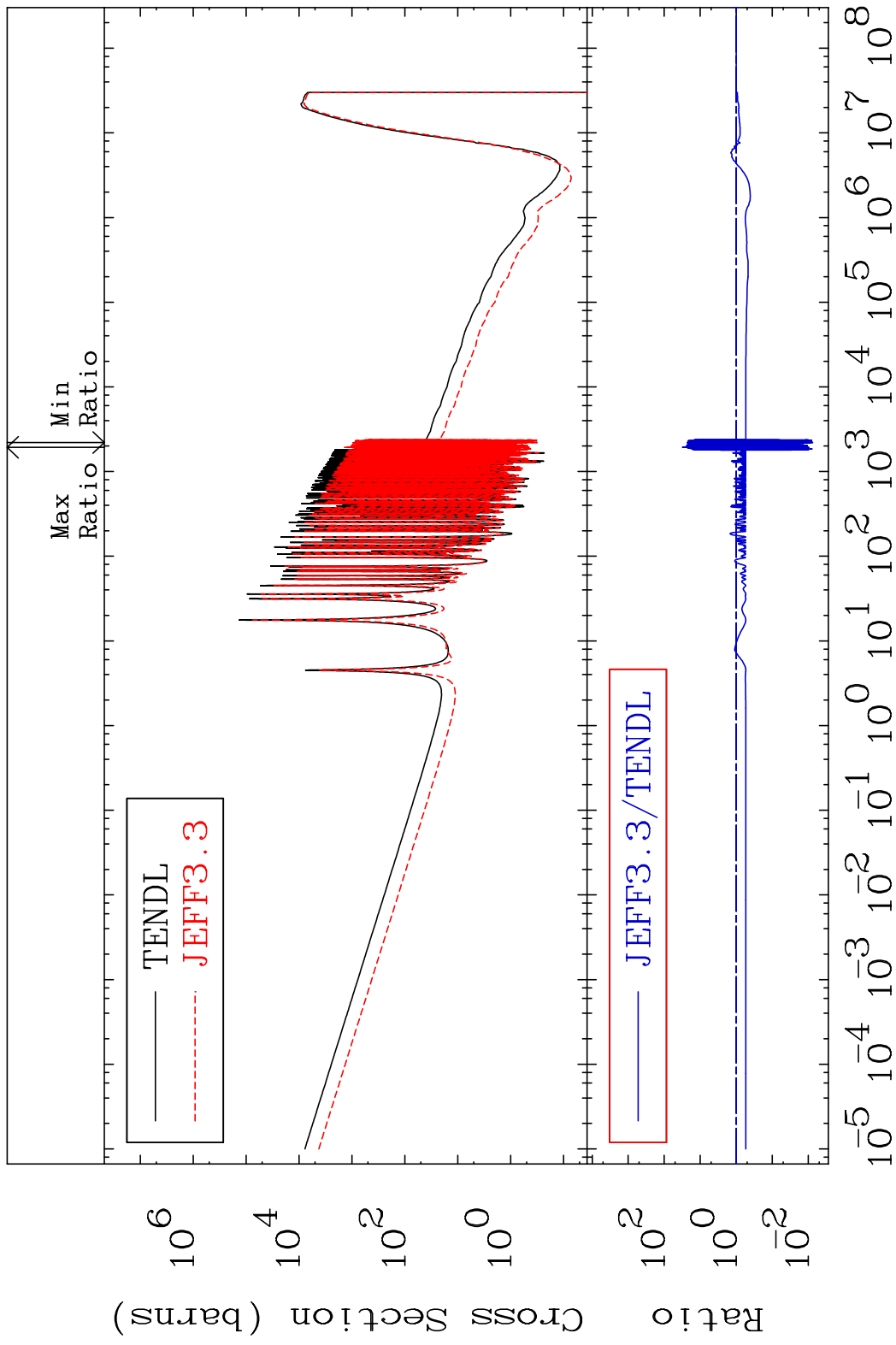


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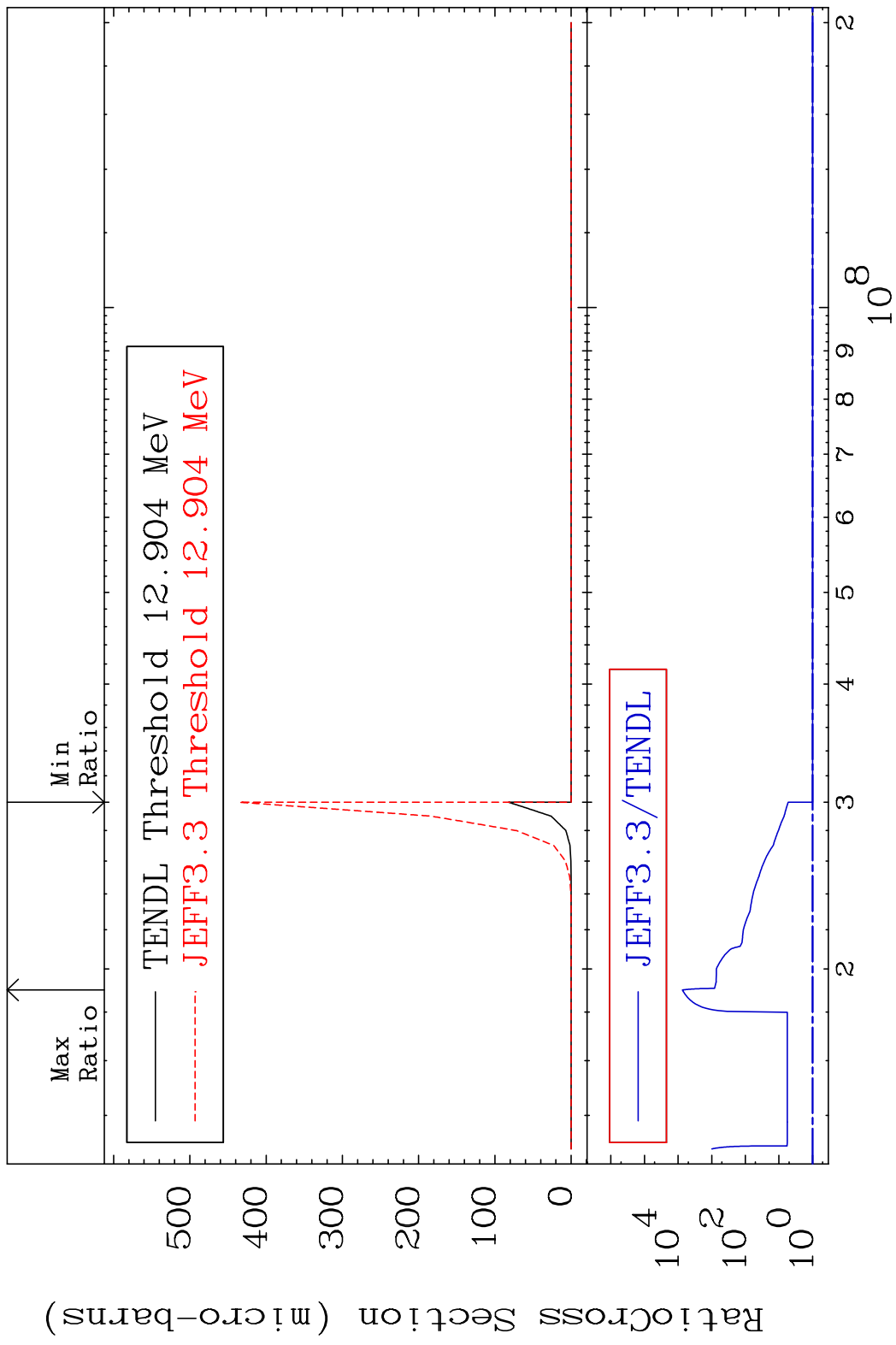
Incident Energy (eV)

70-Yb-173

MAT 7040 Dpa disappearance (mt102 -120) 70-Yb-173
 Cross Section -99.24 To 3040. %



78 Incident Energy (eV) 70-Yb-173



MAT 7040 (n,3n) α :68-Er-167m3 70-Yb-173
 Radionuclide Production Cross Section 9999. %

