

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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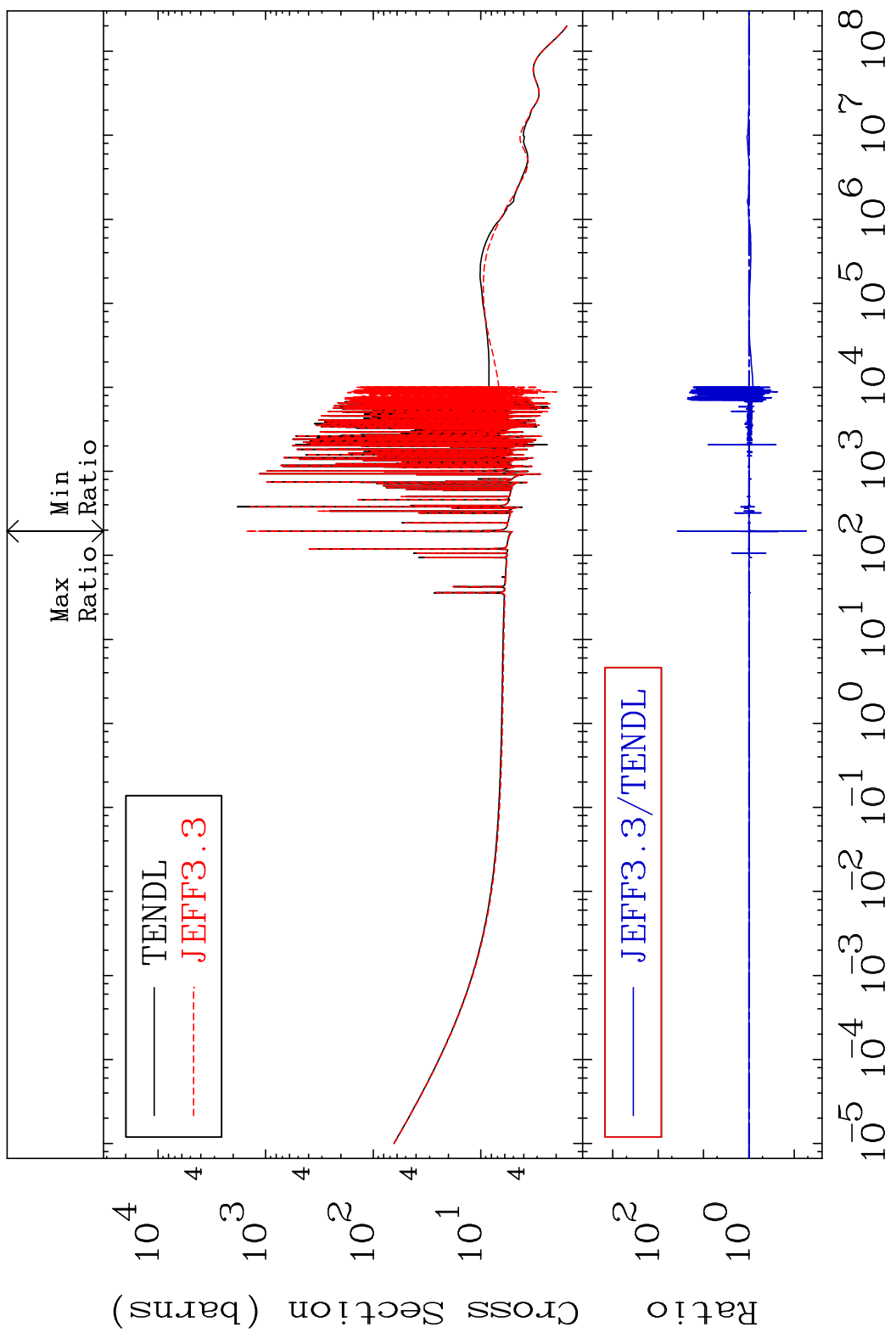
Press Mouse Button to Start

MAT 4125

41-Nb-93

Total

Cross Section -94.61 To 3706. %



1

Incident Energy (eV)

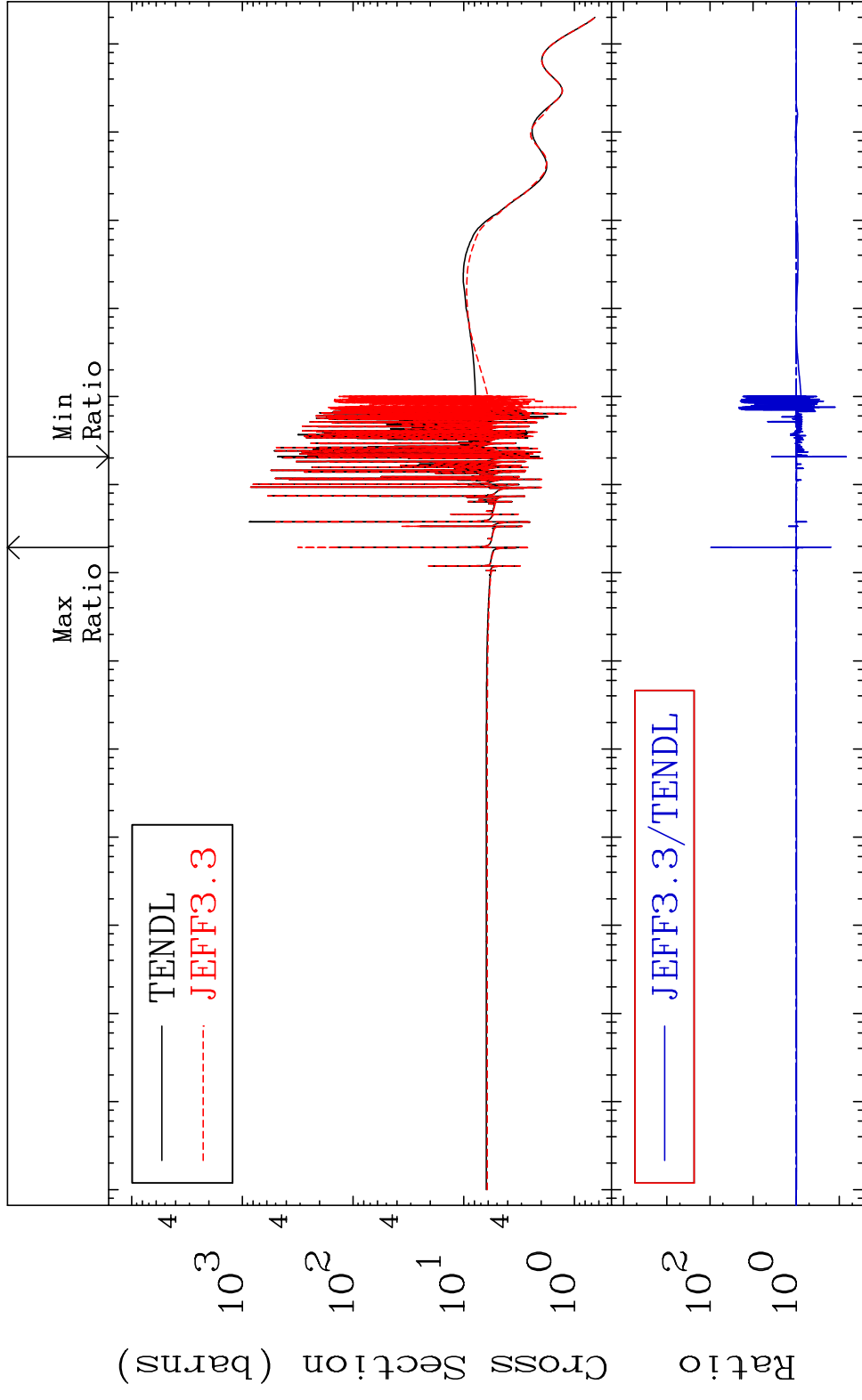
41-Nb-93

MAT 4125

Elastic

41-Nb-93

Cross Section -93.11 To 9487. %



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

2

Incident Energy (eV)

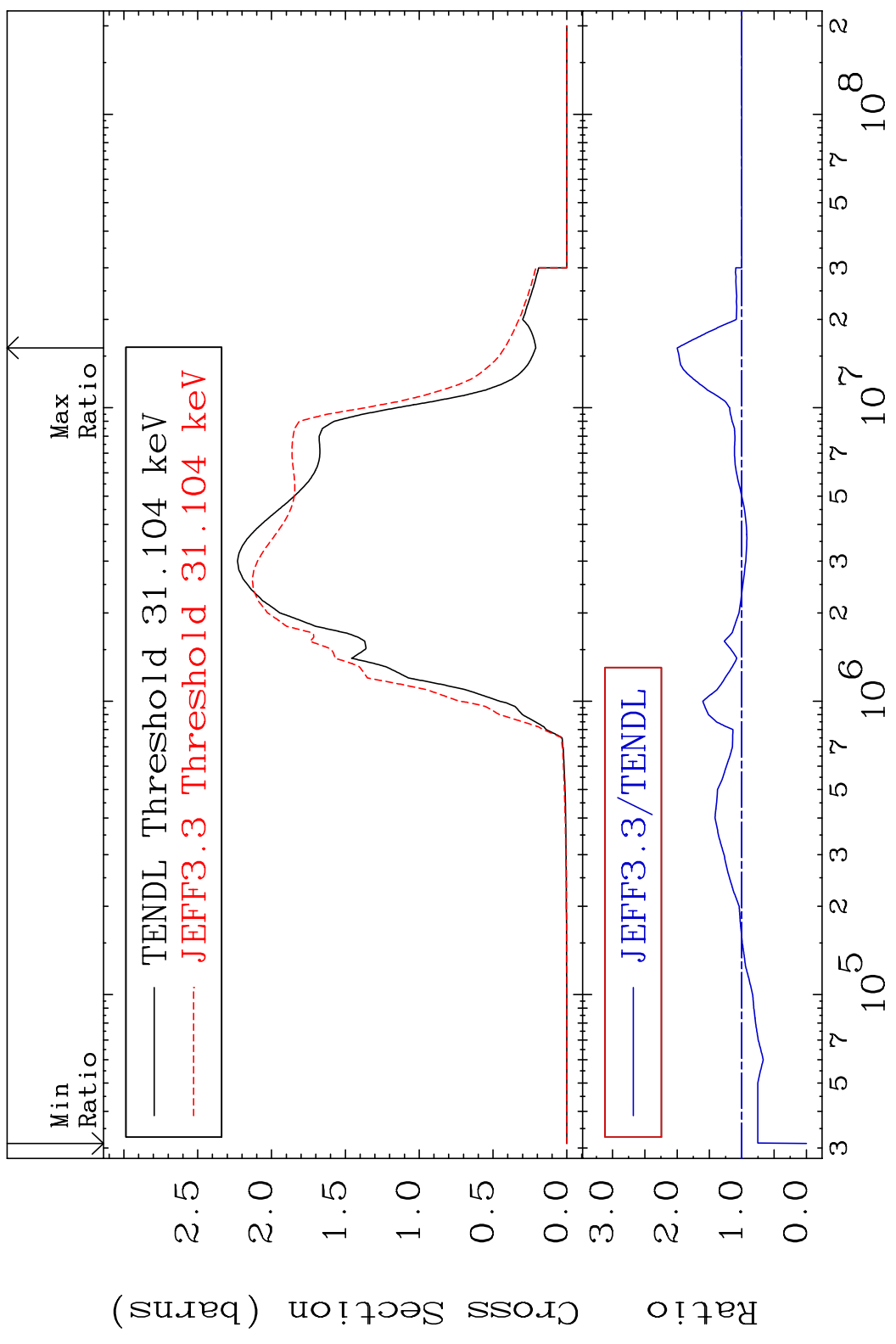
41-Nb-93

MAT 4125

Inelastic

41-Nb-93

Cross Section -100.0 To 99.93 %



3

Incident Energy (eV)

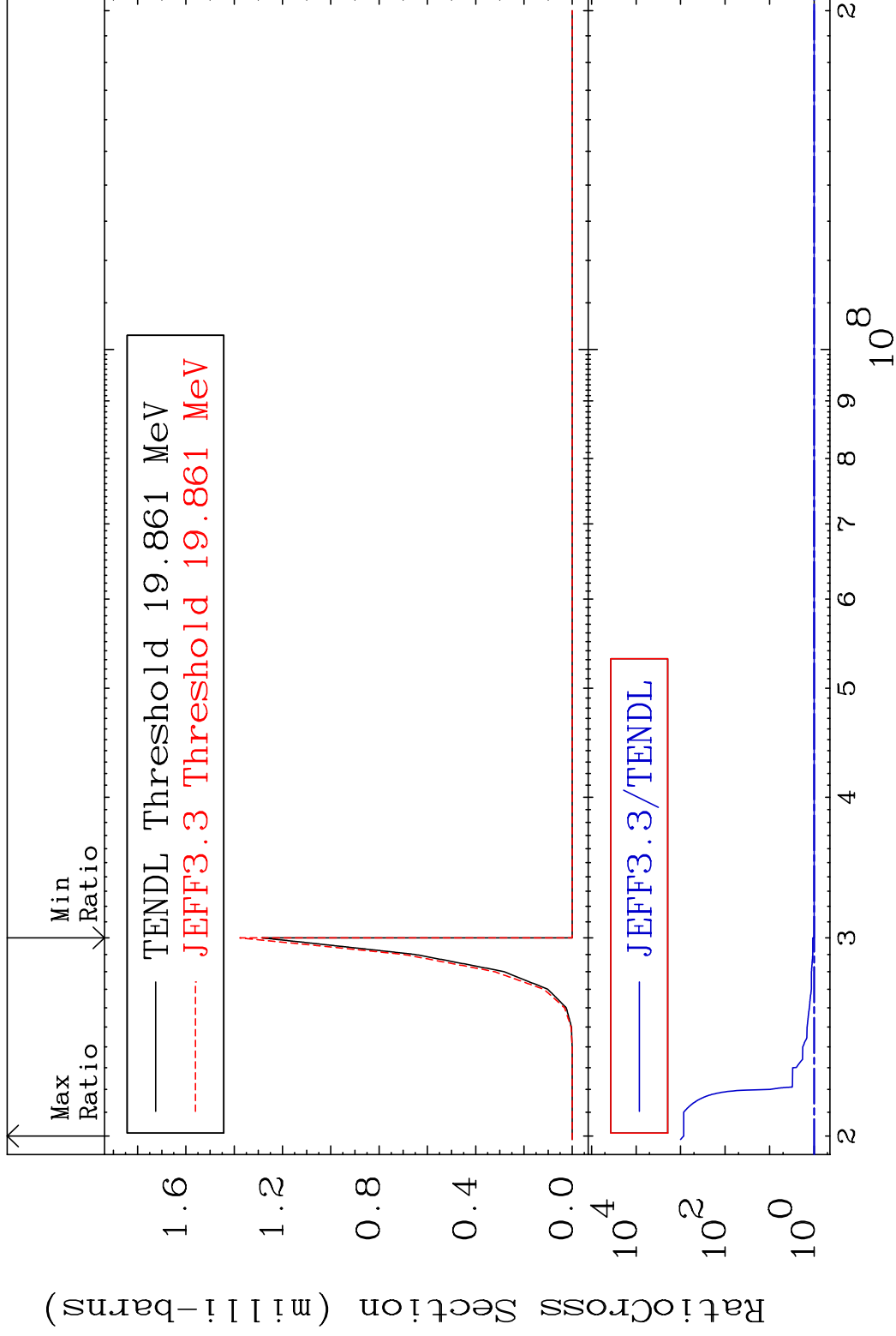
41-Nb-93

MAT 4125

(n,2n) d

41-Nb-93

Cross Section 0.000 To 9999. %



4

Incident Energy (eV)

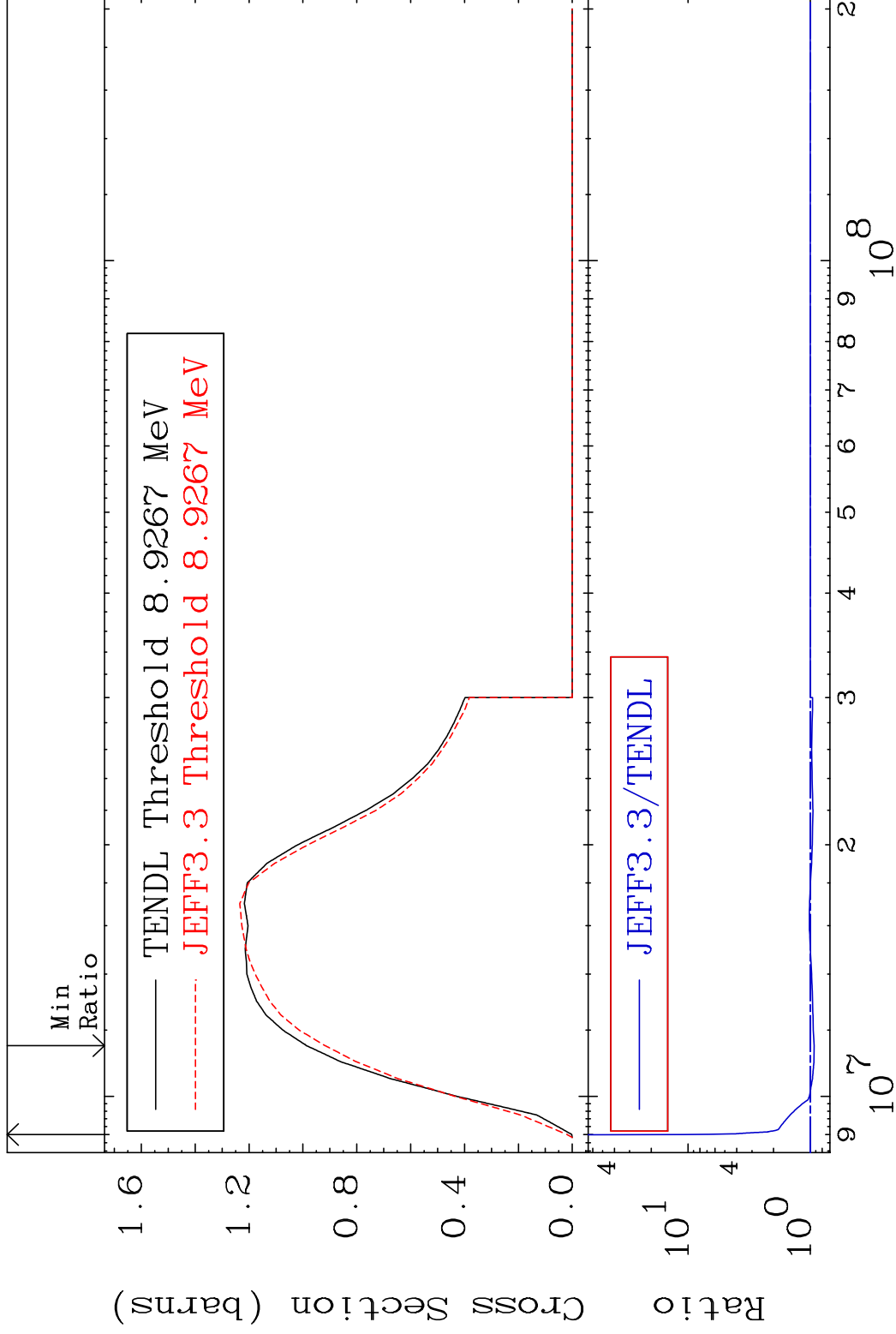
41-Nb-93

MAT 4125

(n,2n)

41-Nb-93

Cross Section -6.984 To 984.7 %



5

Incident Energy (eV)

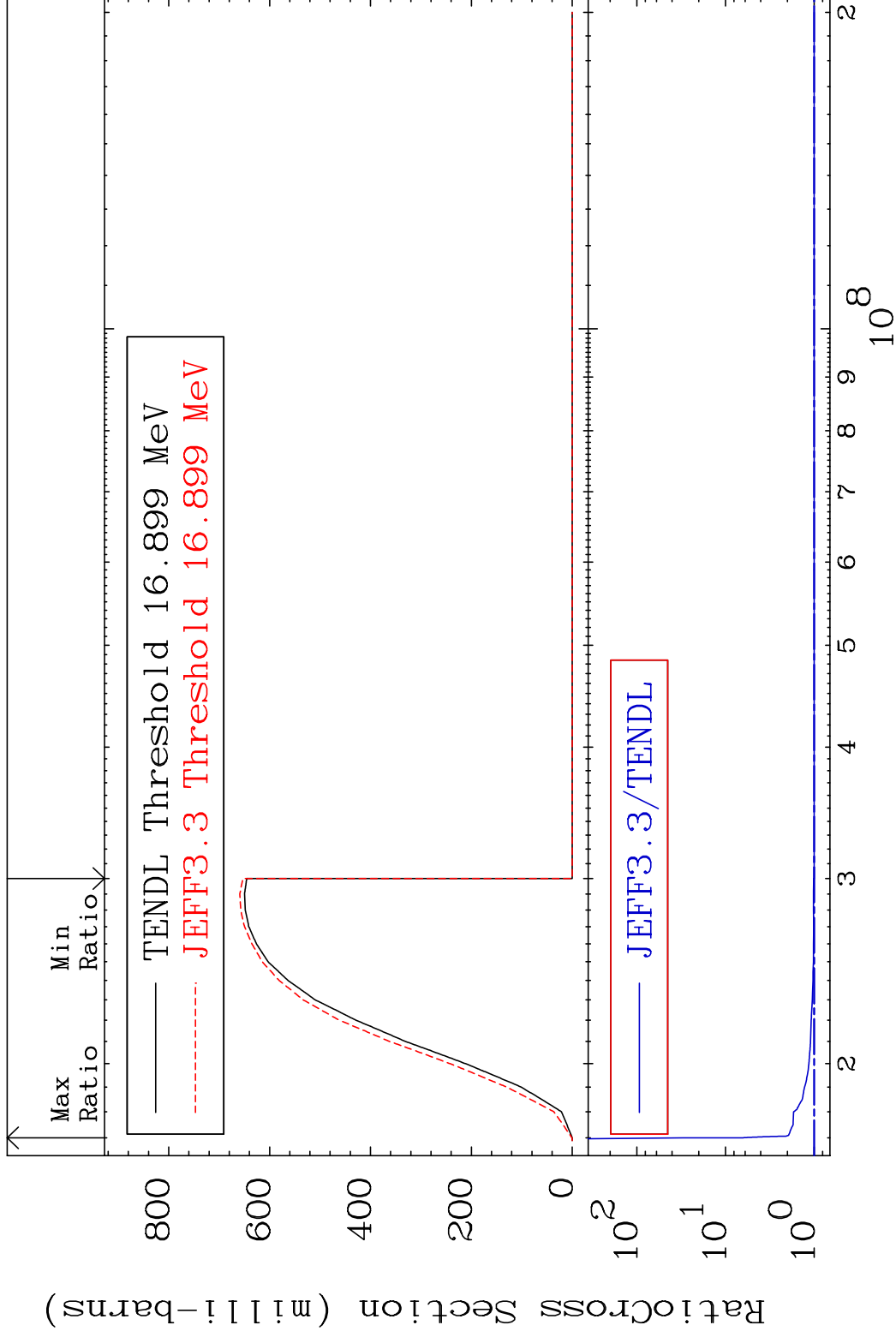
41-Nb-93

MAT 4125

(n,3n)

41-Nb-93

Cross Section 0.000 To 2859. %

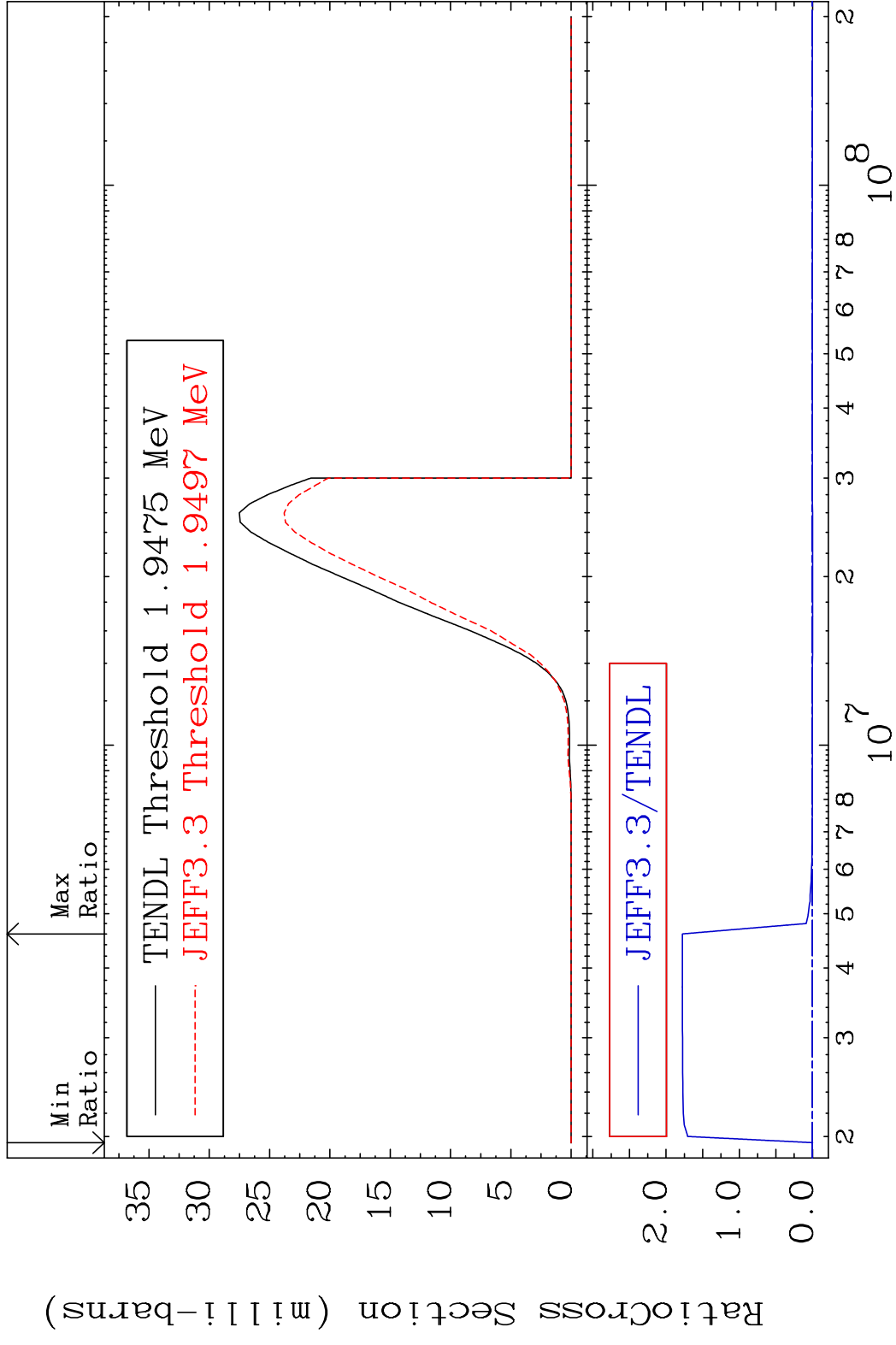


6

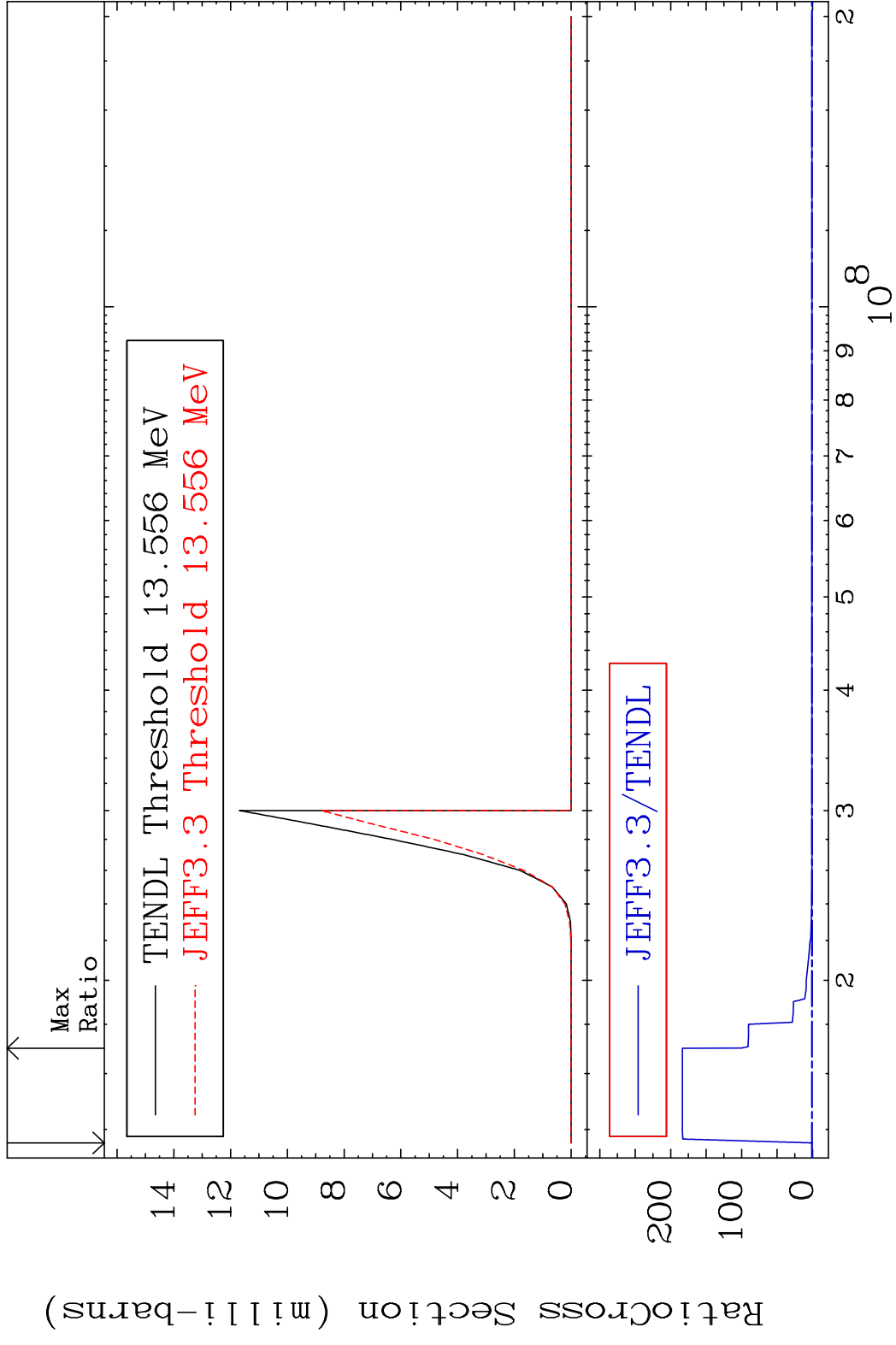
Incident Energy (eV)

41-Nb-93

MAT 4125 (n, n') α 41-Nb-93
 Cross Section -100.0 To 9999. %



MAT 4125 (n,2n) α 41-Nb-93
 Cross Section -100.0 To 9999. %

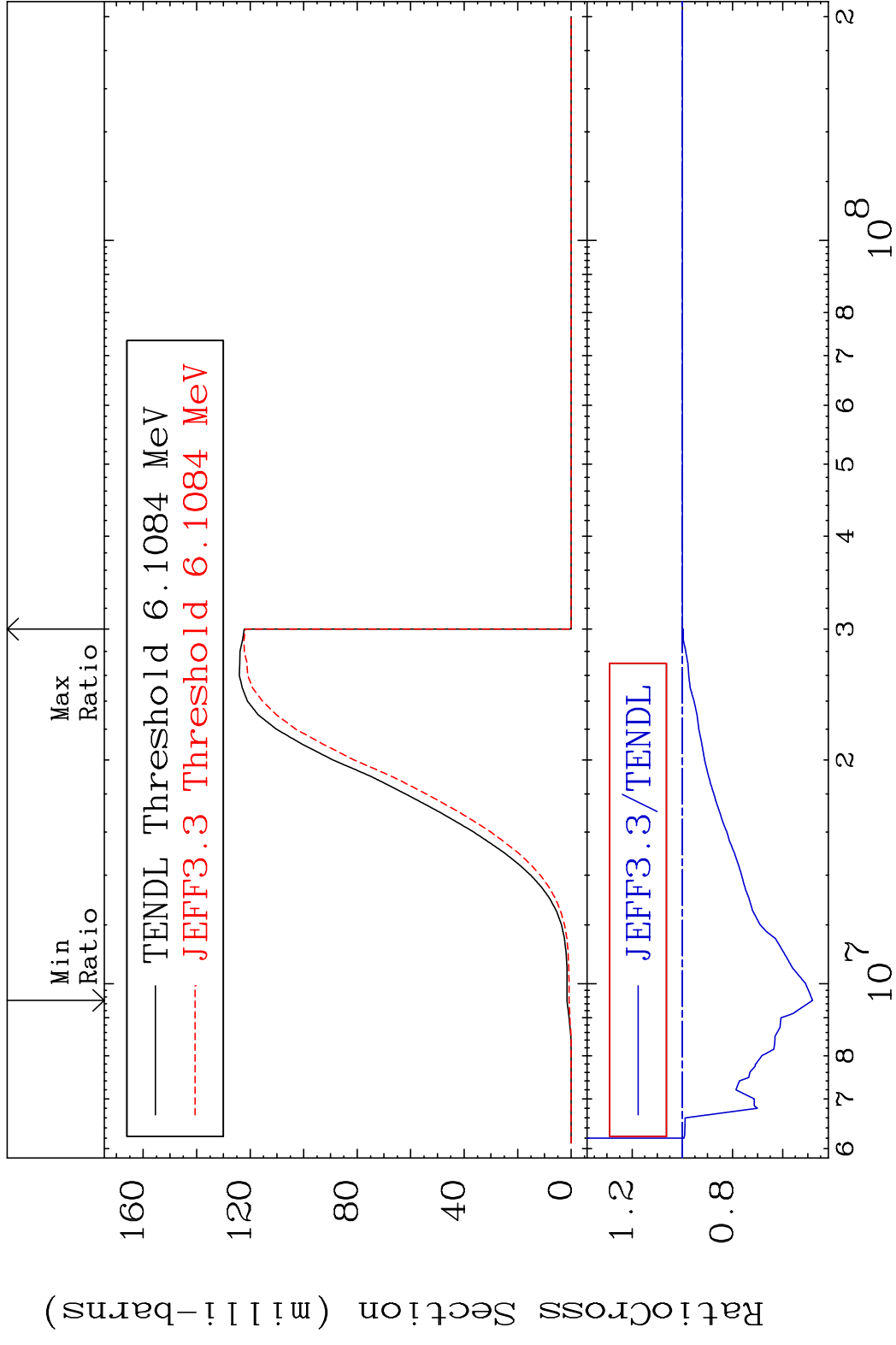


MAT 4125

41-Nb-93

(n, n') p

Cross Section -51.85 To 0.000 %



9

Incident Energy (eV)

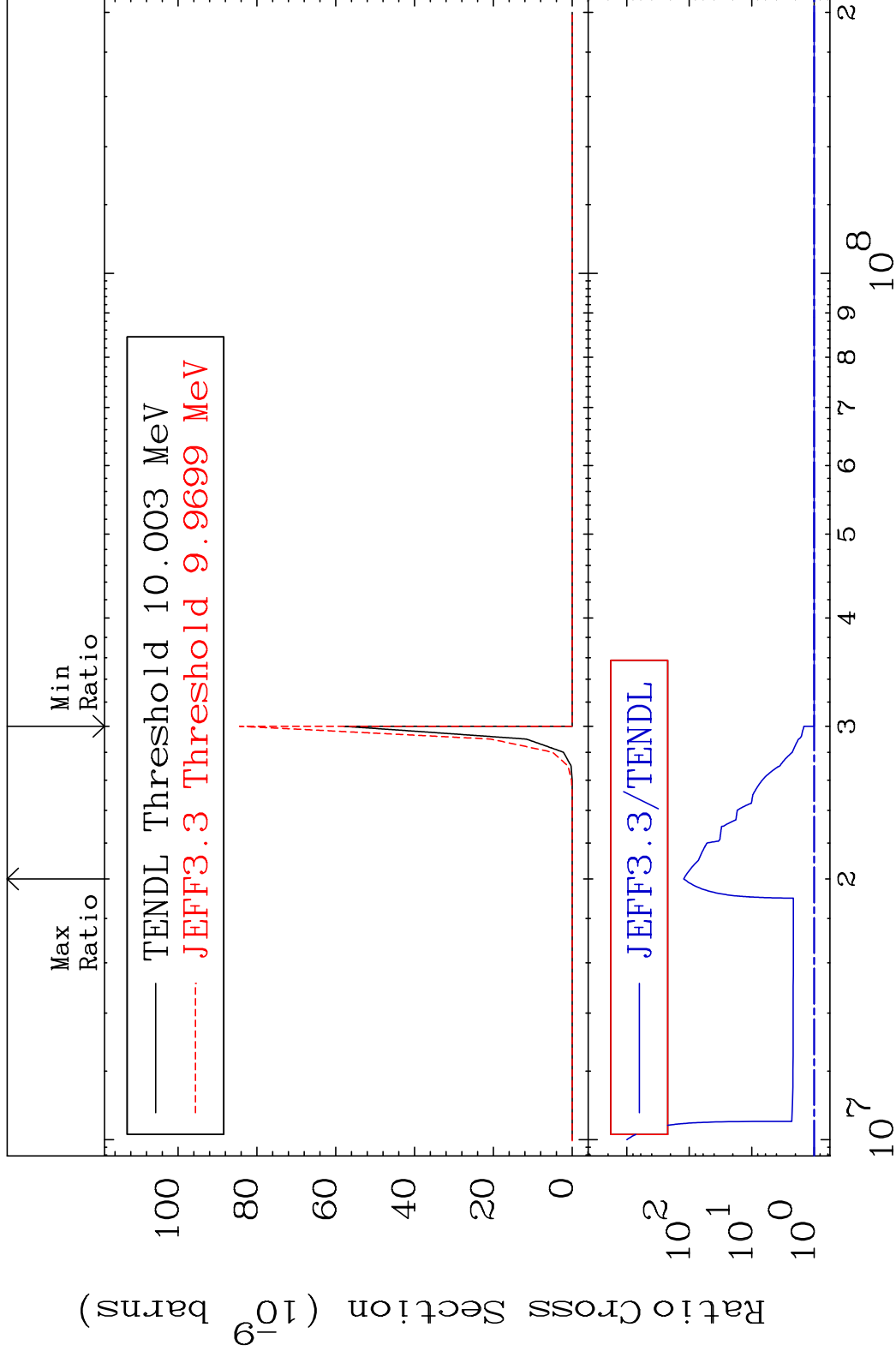
41-Nb-93

MAT 4125

(n, n') 2α

41-Nb-93

Cross Section 0.000 To 9999. %



10

Incident Energy (eV)

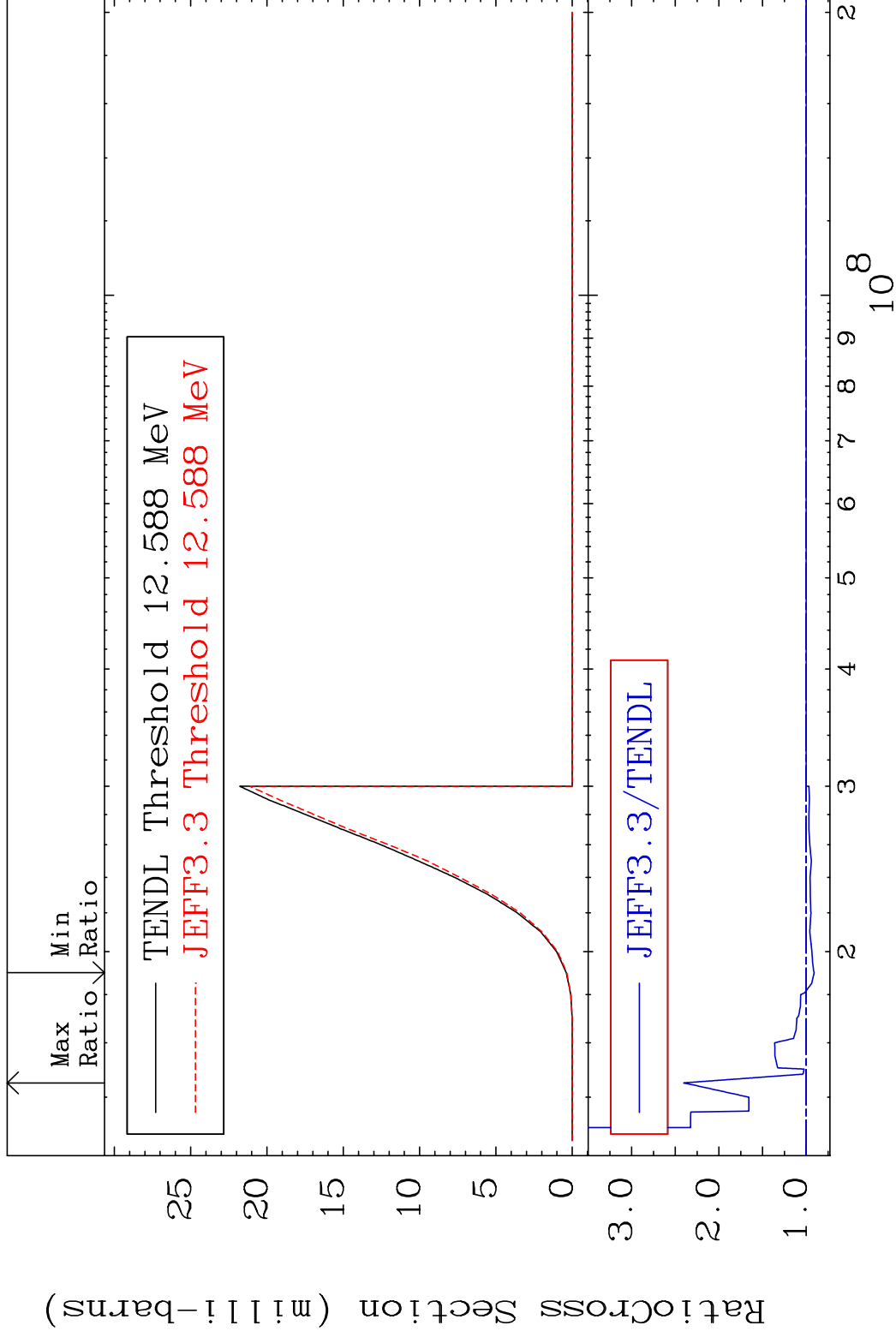
41-Nb-93

MAT 4125

(n, n') d

41-Nb-93

Cross Section -8.999 To 140.4 %

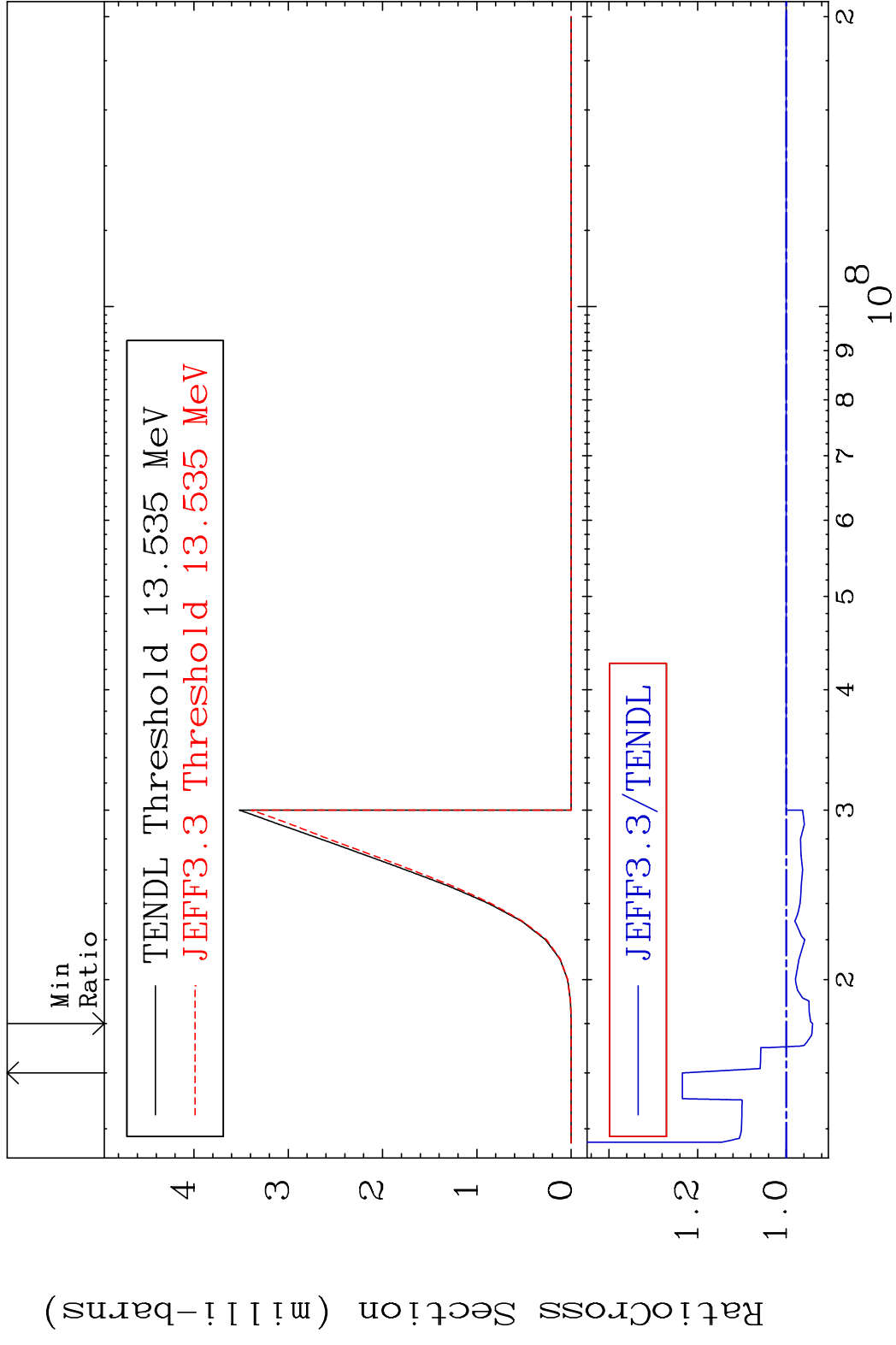


MAT 4125

(n, n') t

41-Nb-93

Cross Section -5.936 To 23.45 %

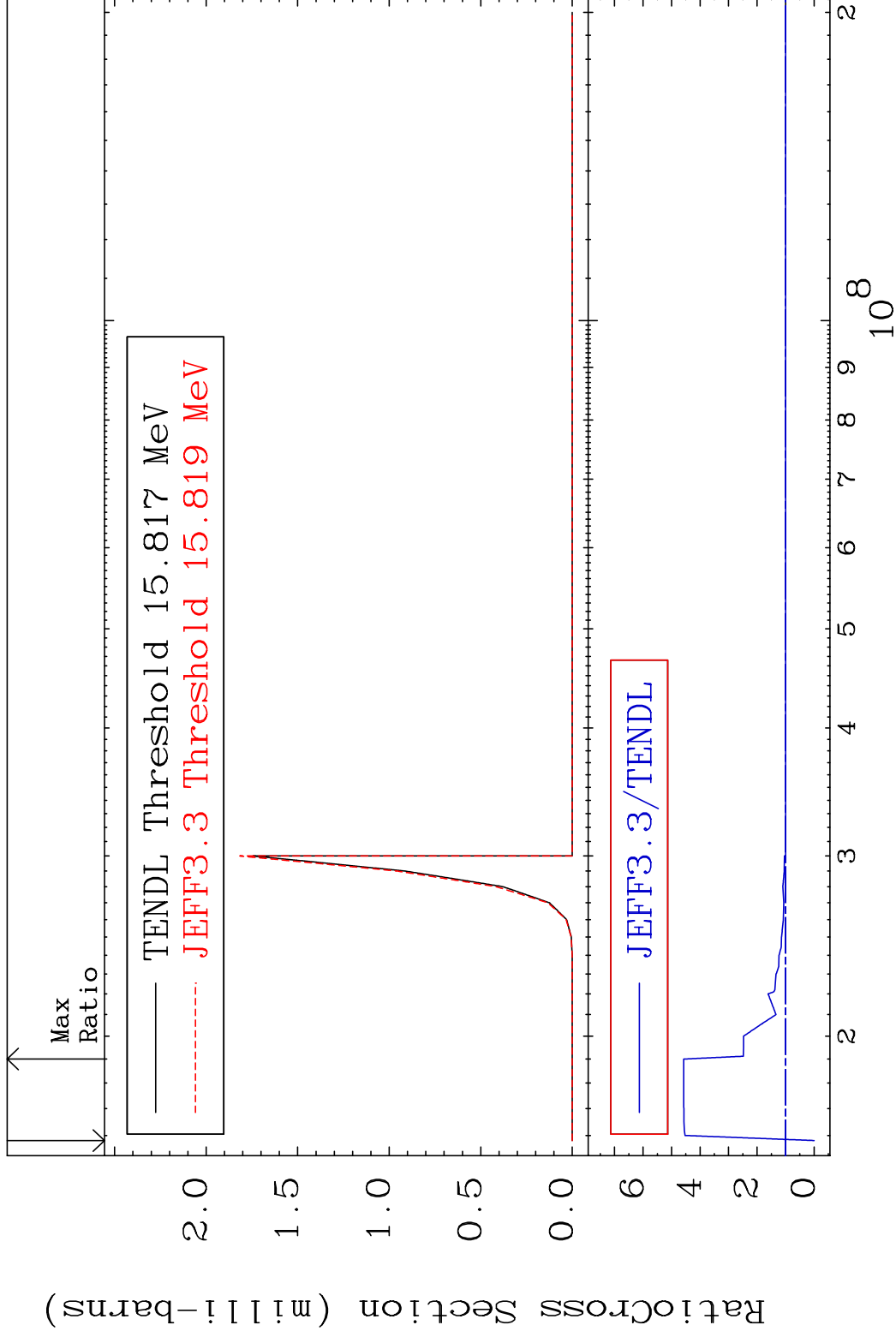


MAT 4125

(n,n') He-3

41-Nb-93

Cross Section -100.0 To 357.6 %



13

Incident Energy (eV)

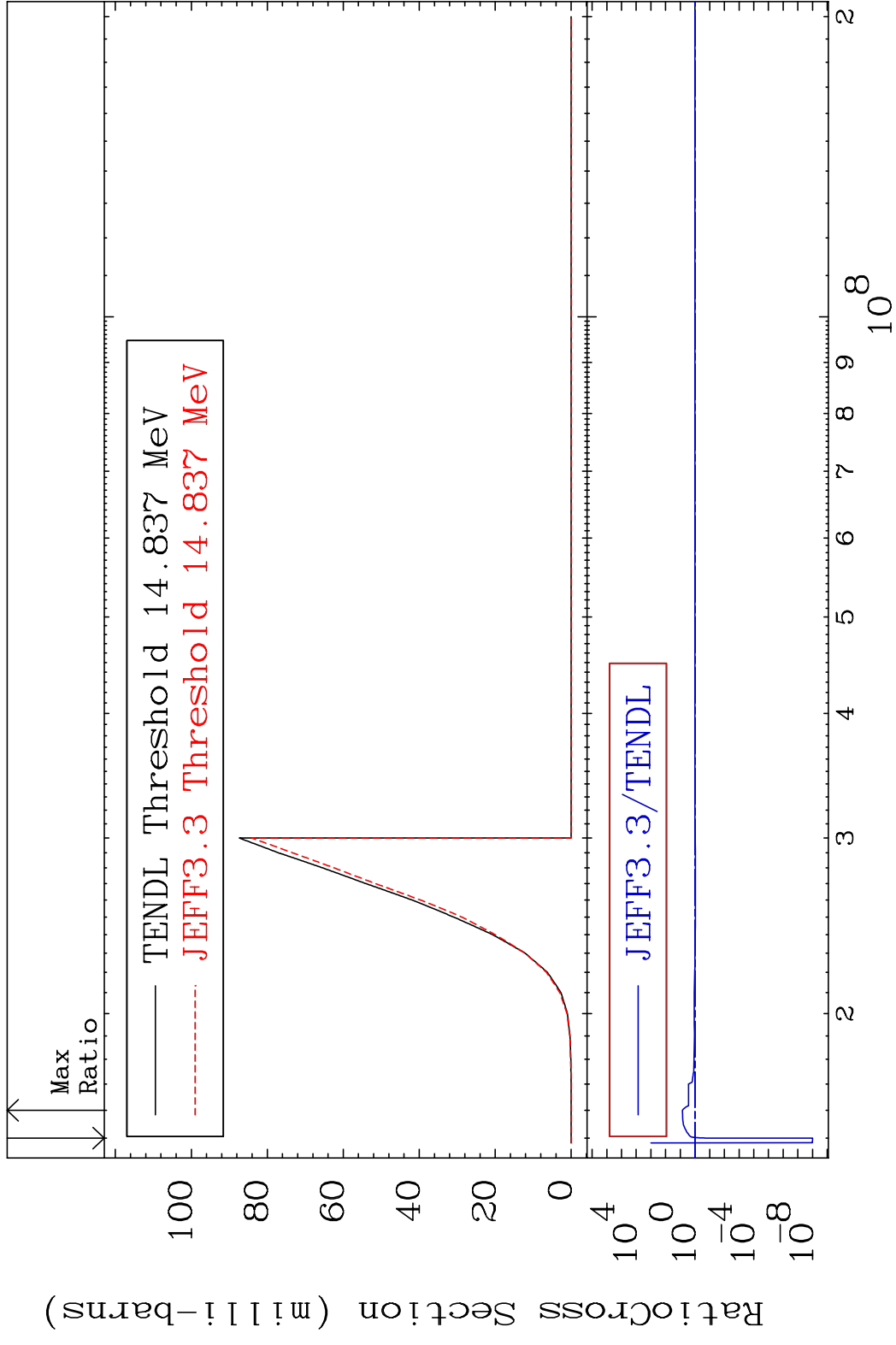
41-Nb-93

MAT 4125

(n,2n) p

41-Nb-93

Cross Section -100.0 To 622.5 %

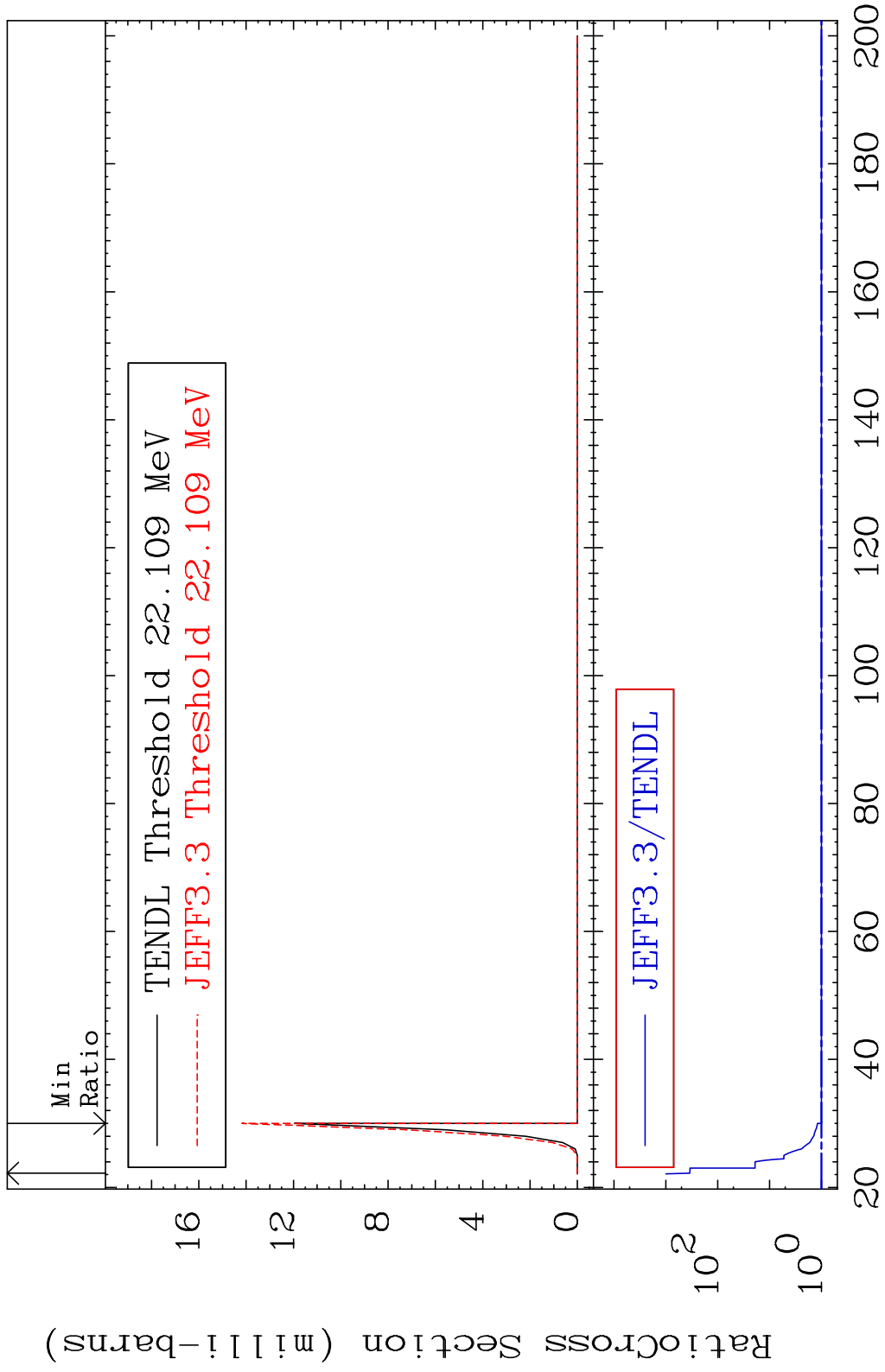


MAT 4125

(n,3n) p

41-Nb-93

Cross Section 0.000 To 9999. %



15

Incident Energy (MeV)

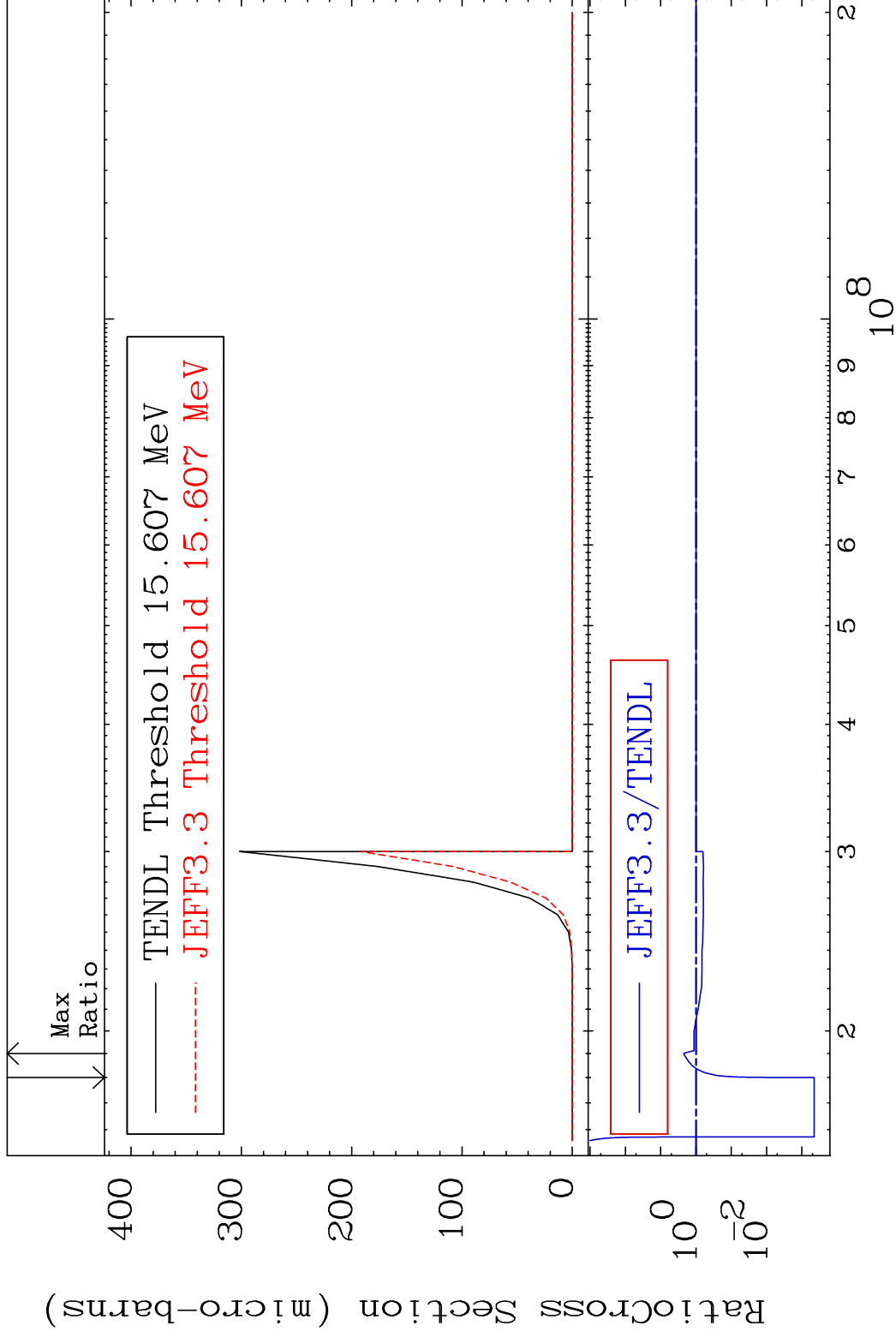
41-Nb-93

MAT 4125

(n,2n) p

41-Nb-93

Cross Section -99.95 To 123.7 %



16

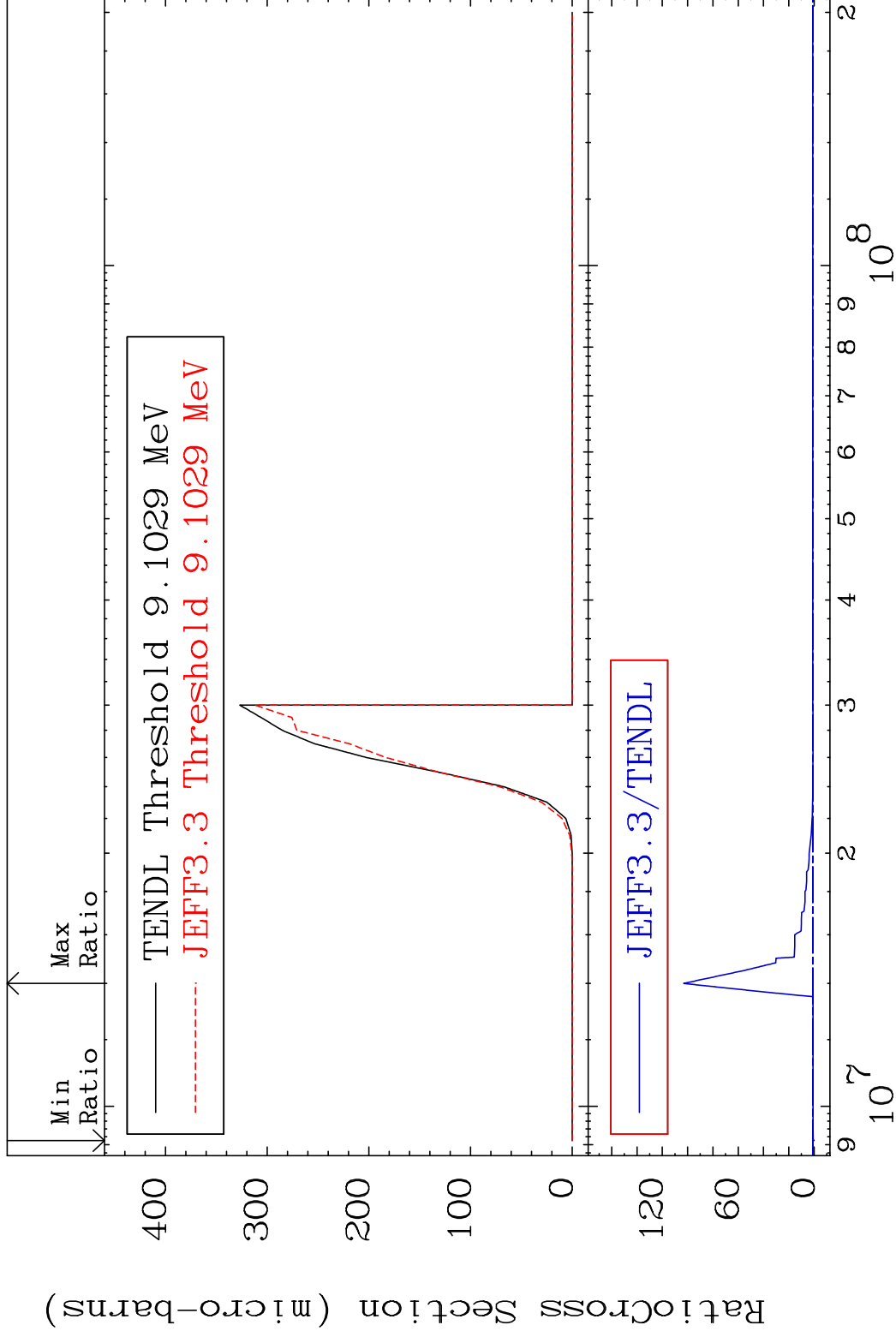
Incident Energy (eV)

41-Nb-93

MAT 4125

(n,n') p α 41-Nb-93

Cross Section -100.0 To 9999. %

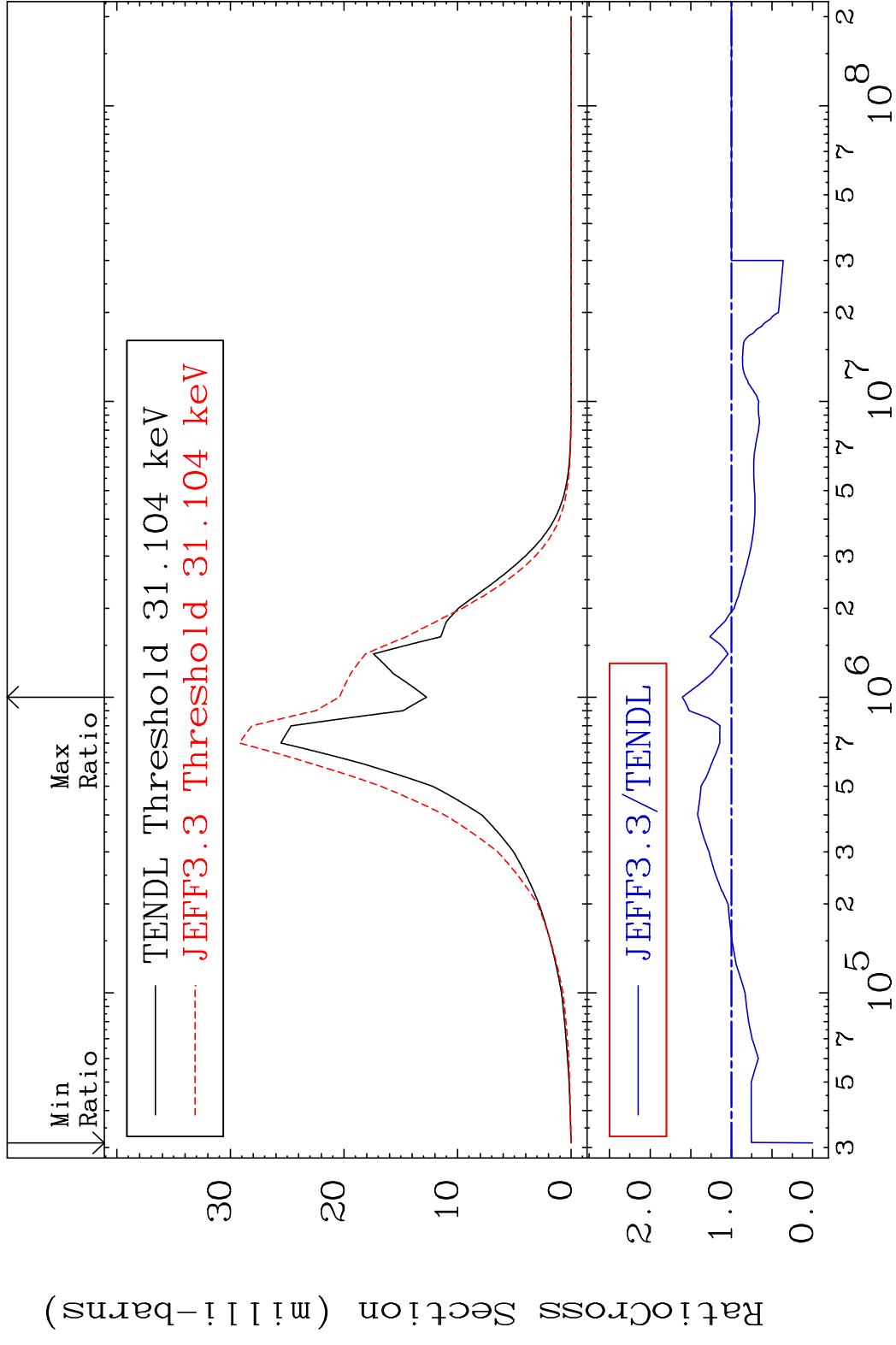


17

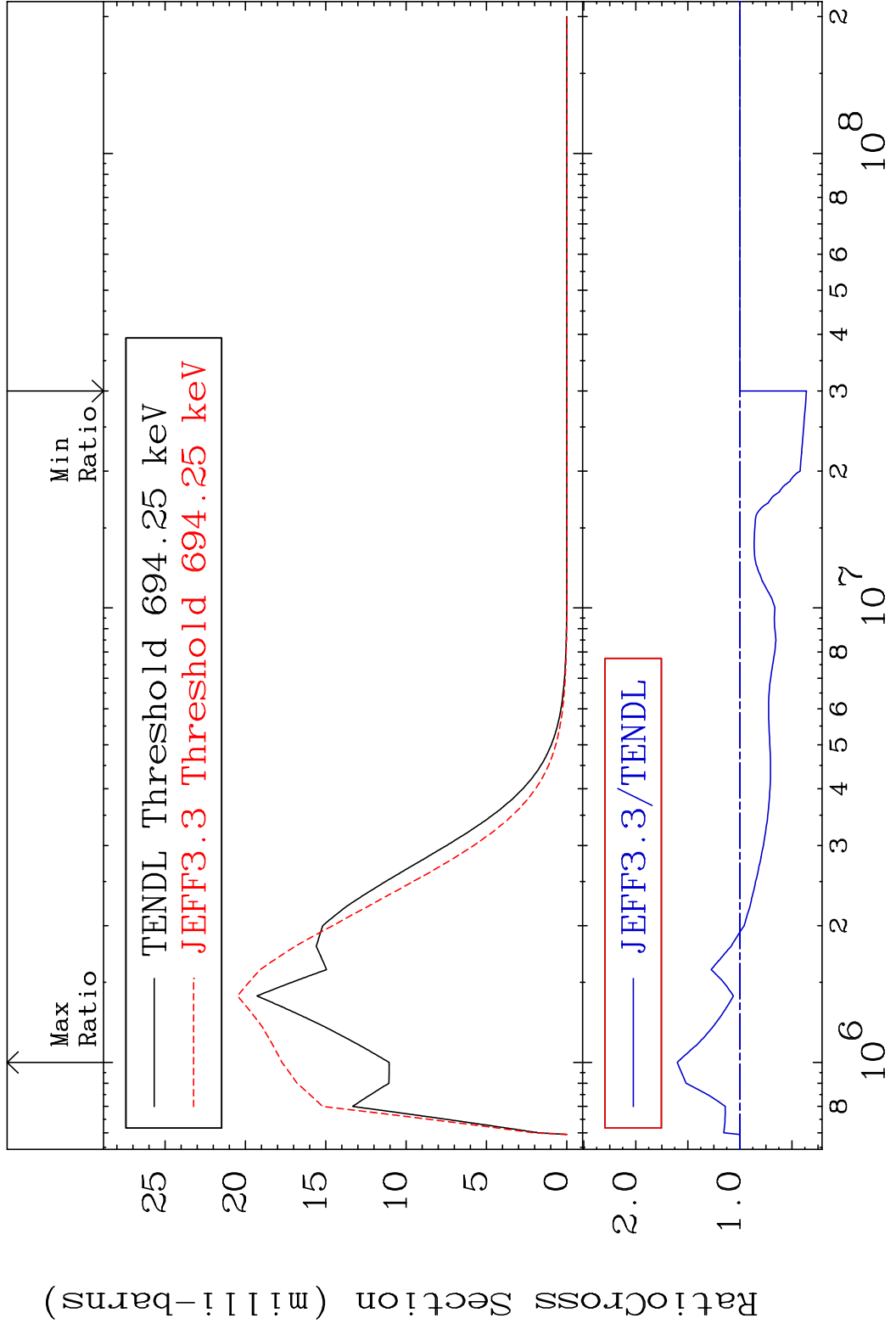
Incident Energy (eV)

41-Nb-93

MAT 4125 MT= 51 (n,n') Level 41-Nb-93
 Cross Section -100.0 To 60.31 %

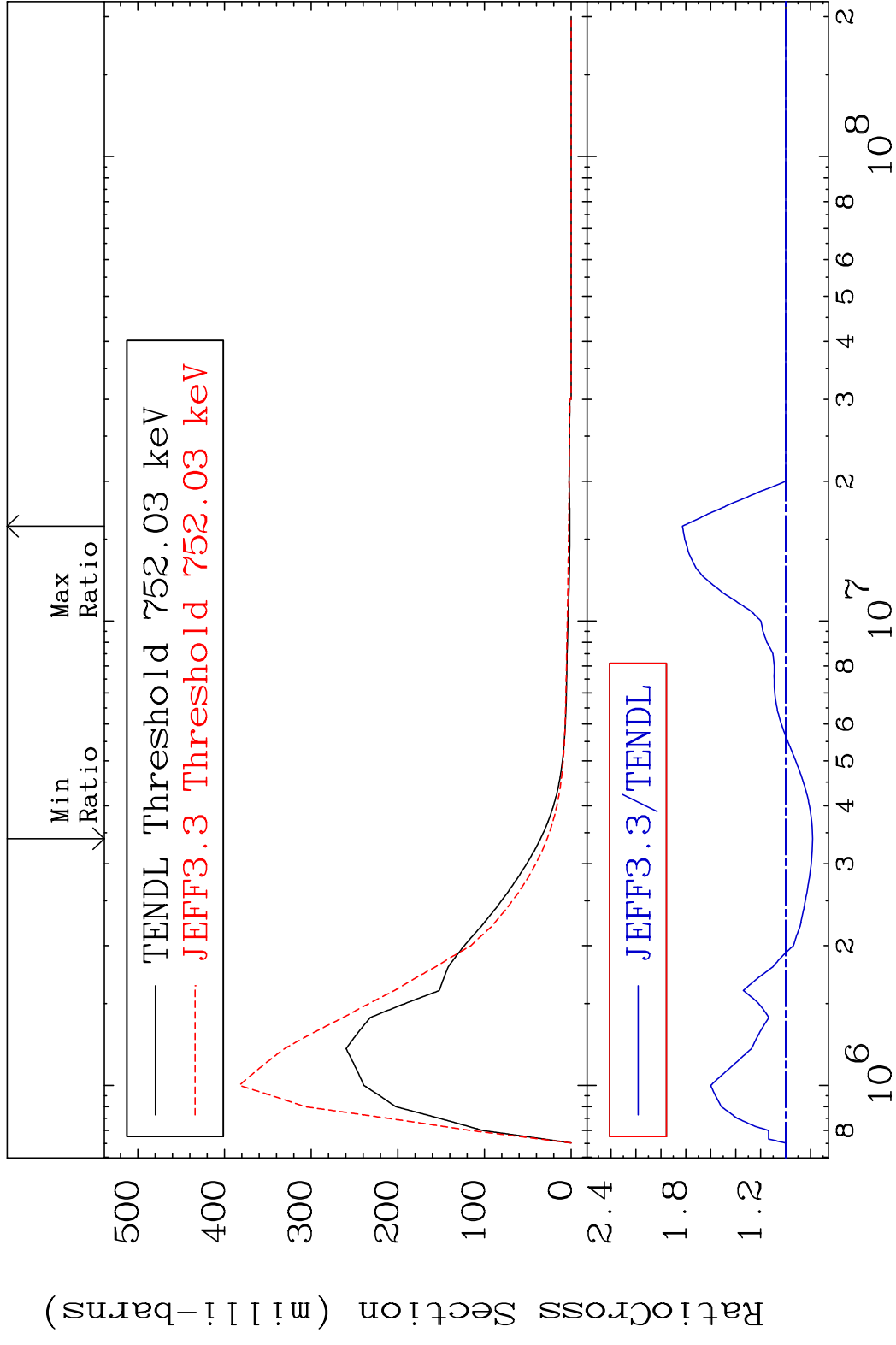


MAT 4125 MT= 52 (n,n') Level 41-Nb-93
 Cross Section -63.95 To 60.21 %



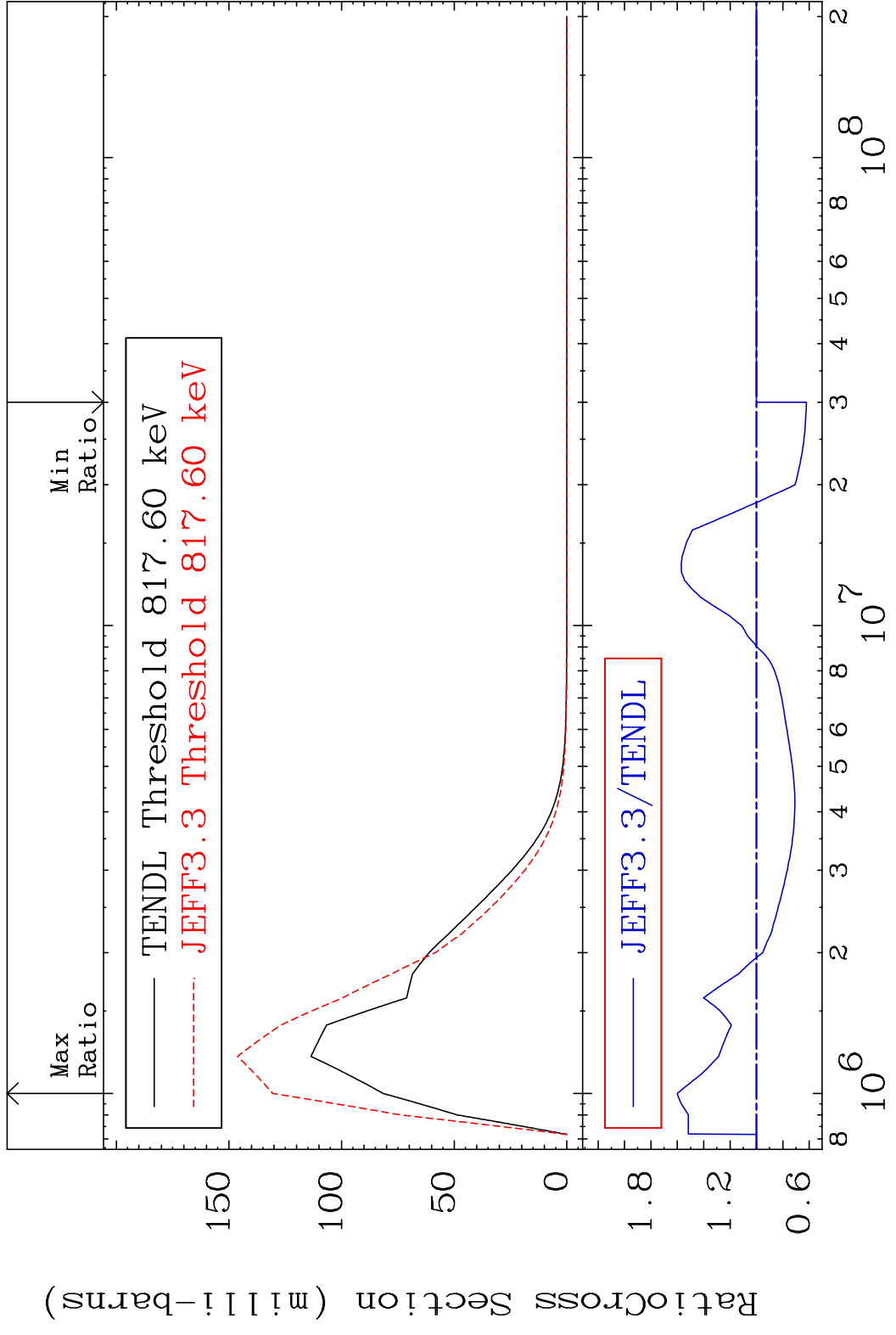
19 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 53 (n, n') Level 41-Nb-93
 Cross Section -21.58 To 82.77 %

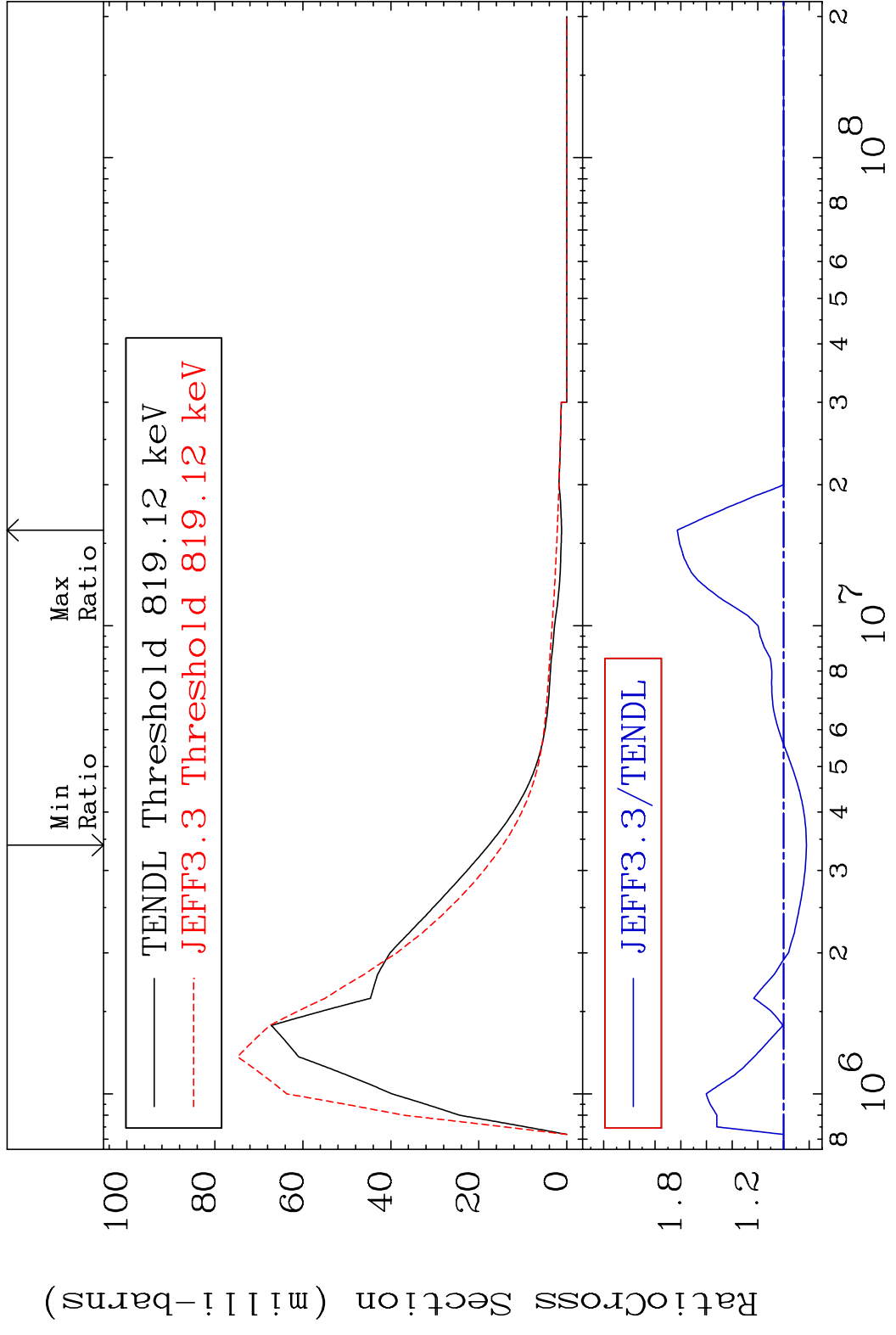


20 Incident Energy (eV) 41-Nb-93

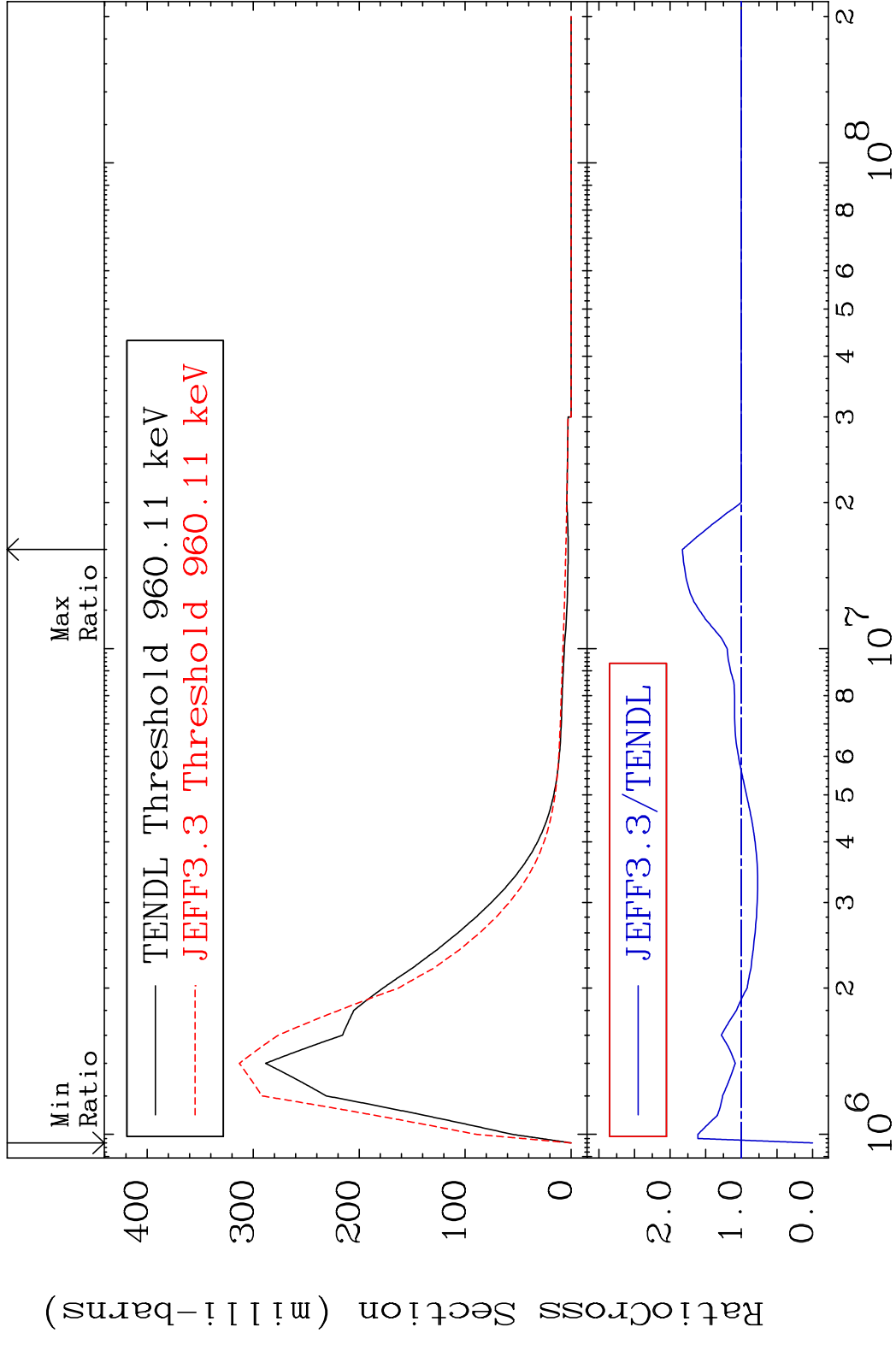
MAT 4125 MT= 54 (n,n') Level 41-Nb-93
 Cross Section -37.84 To 60.09 %



MAT 4125 MT= 55 (n, n') Level 41-Nb-93
 Cross Section -17.83 To 82.77 %

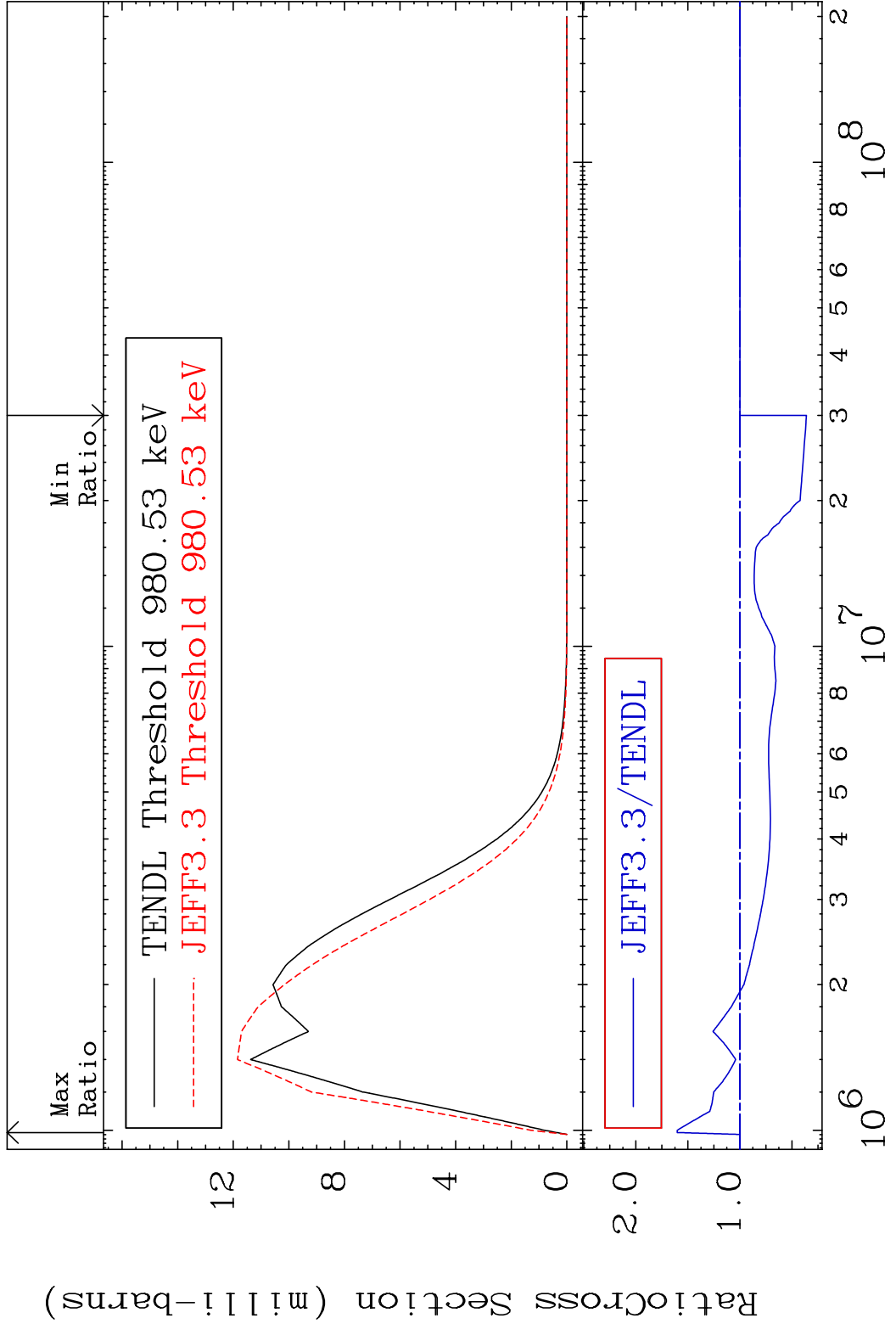


MAT 4125 MT= 56 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 82.77 %



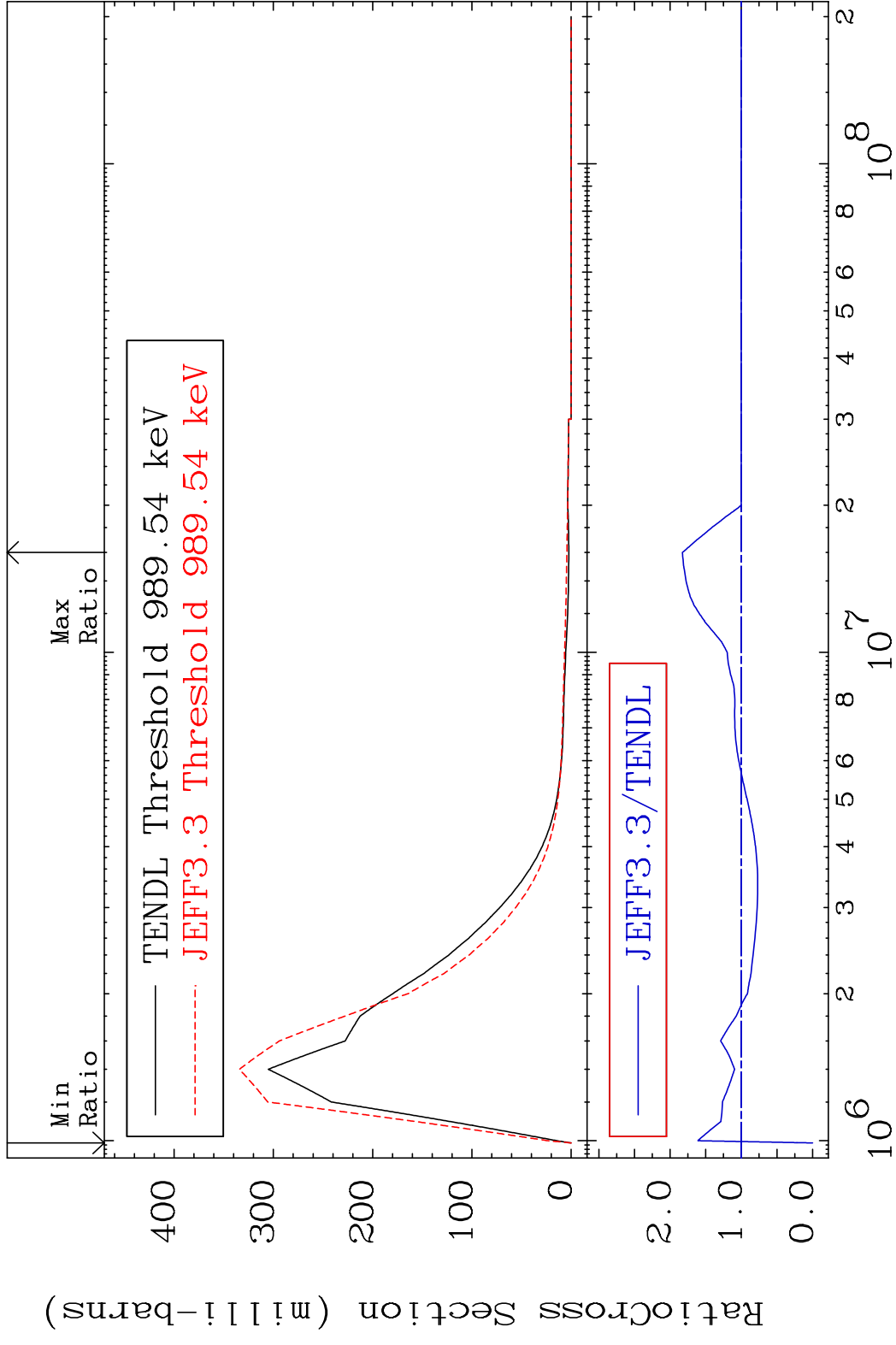
23 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 57 (n, n') Level 41-Nb-93
 Cross Section -63.95 To 60.28 %



24 41-Nb-93

MAT 4125 MT= 58 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 82.77 %



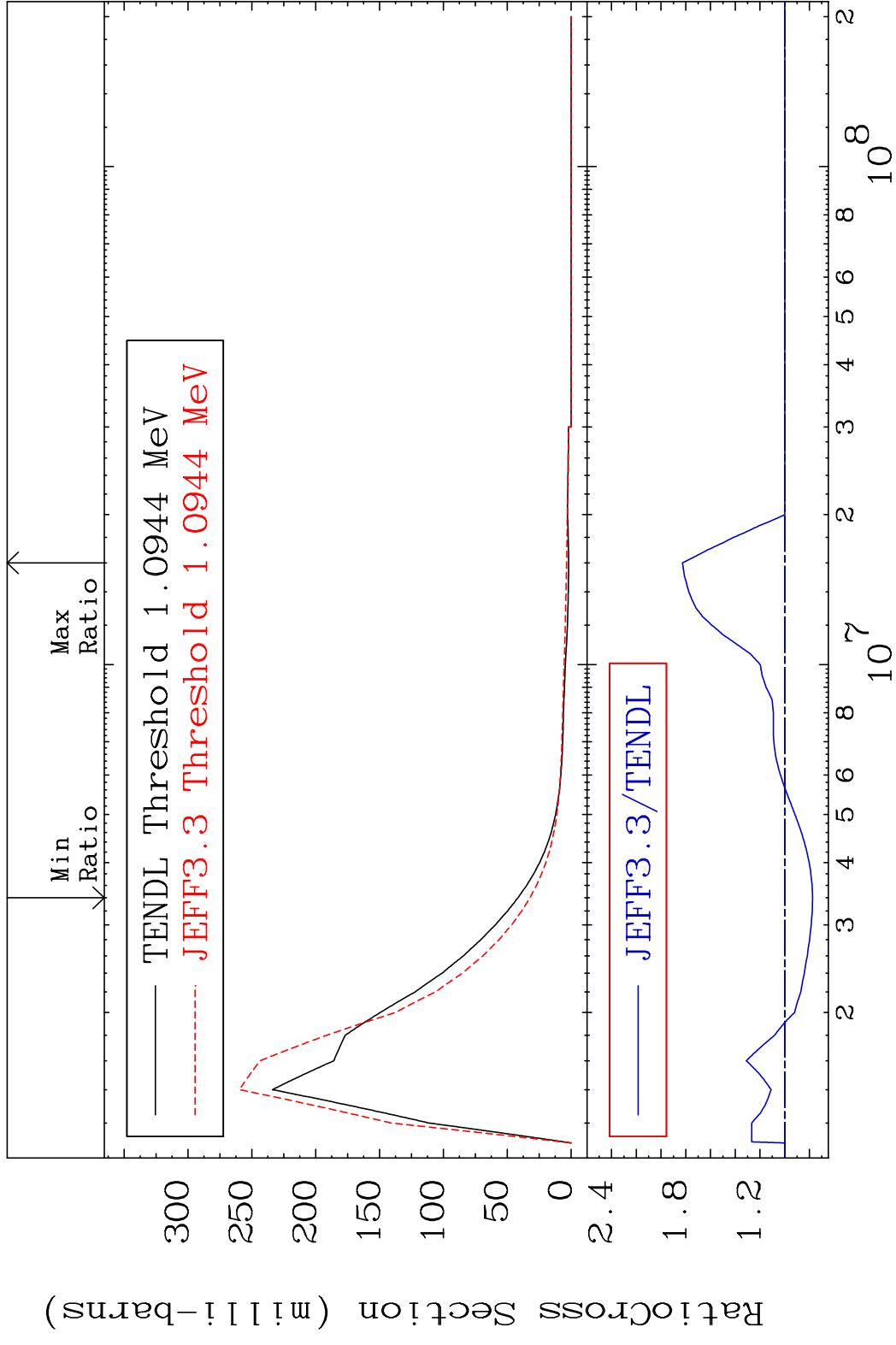
25 Incident Energy (eV) 41-Nb-93

MAT 4125

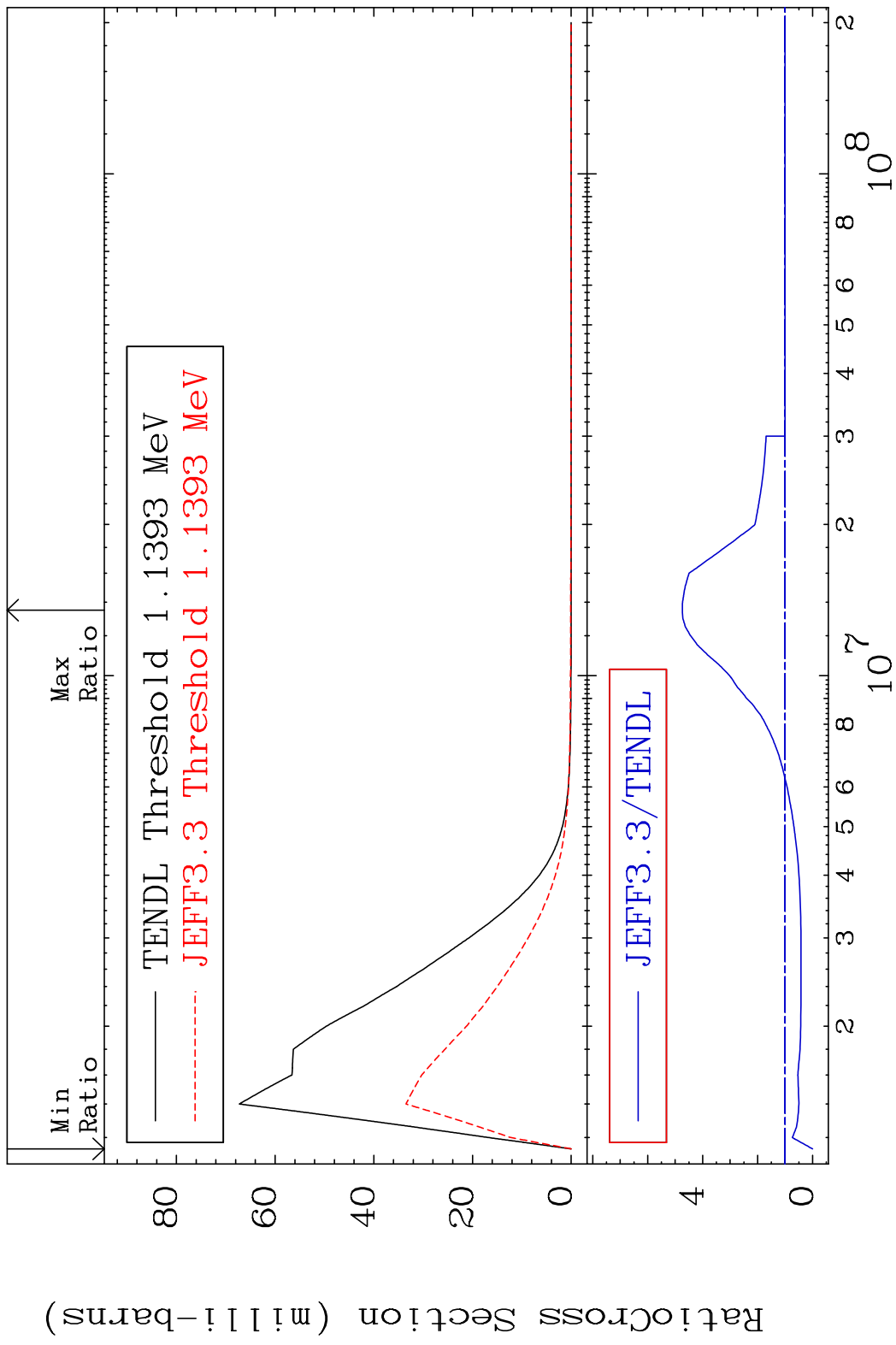
MT= 59 (n, n') Level

41-Nb-93

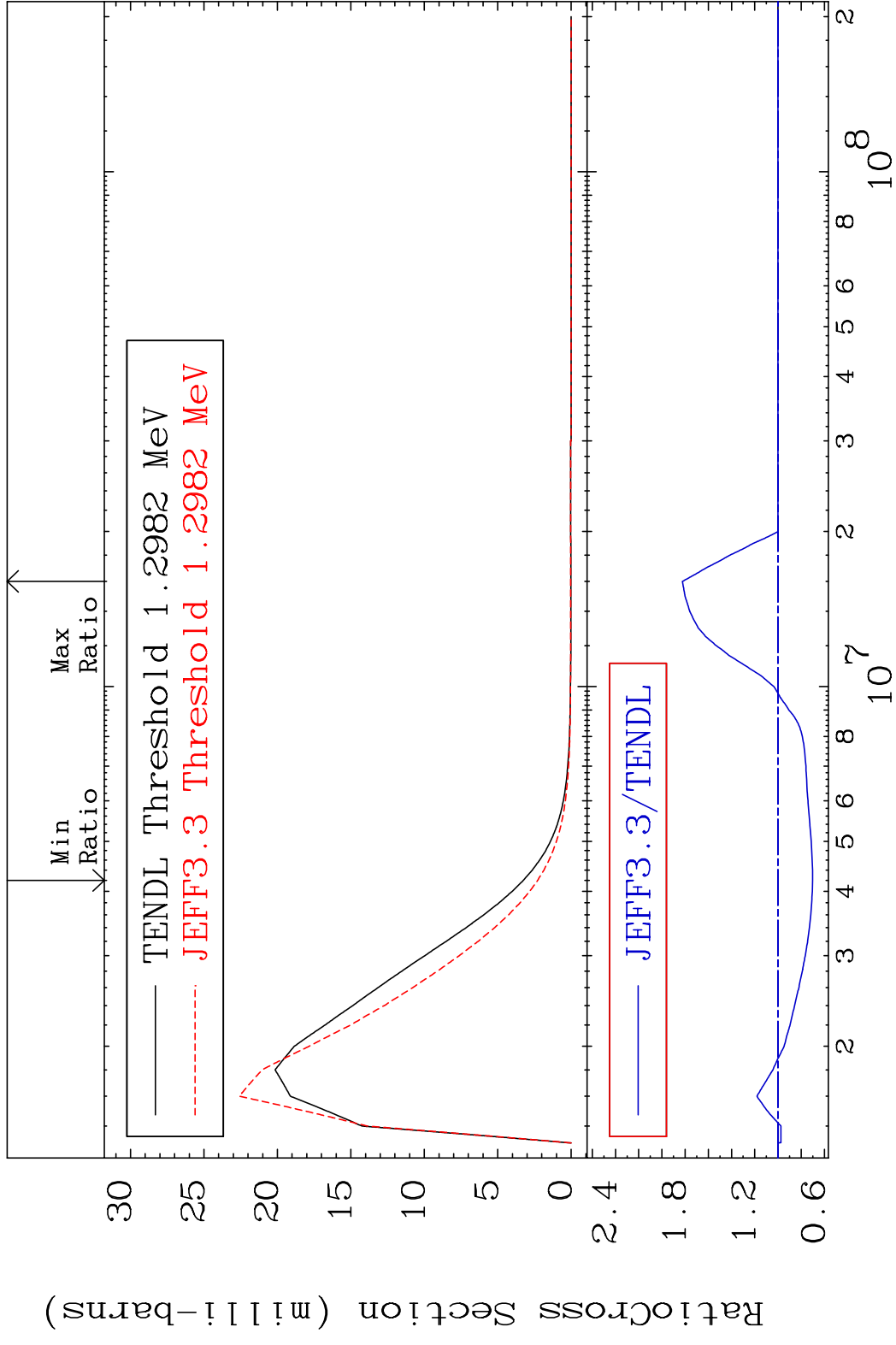
Cross Section -22.52 To 82.77 %



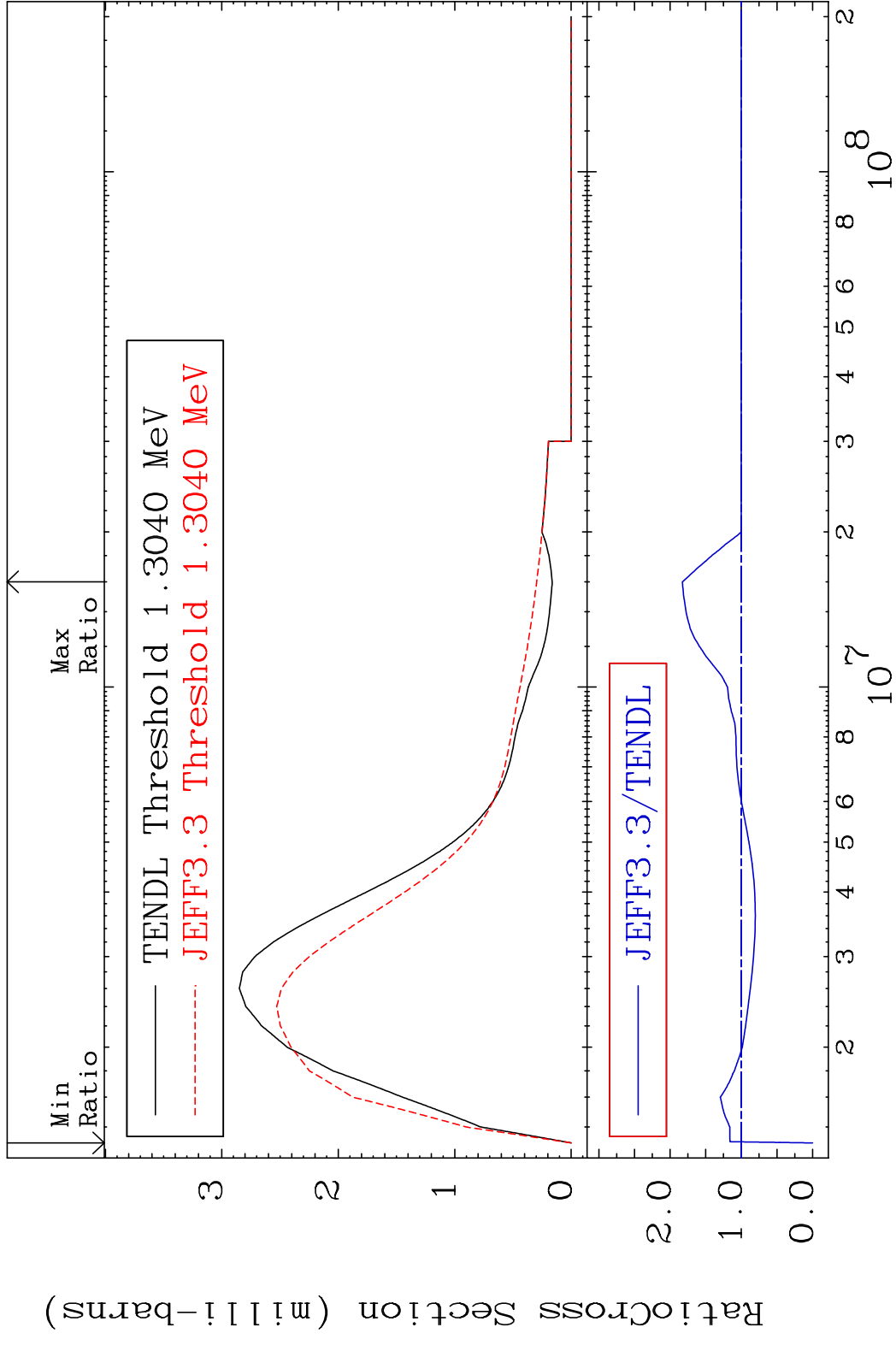
MAT 4125 MT= 60 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 373.8 %



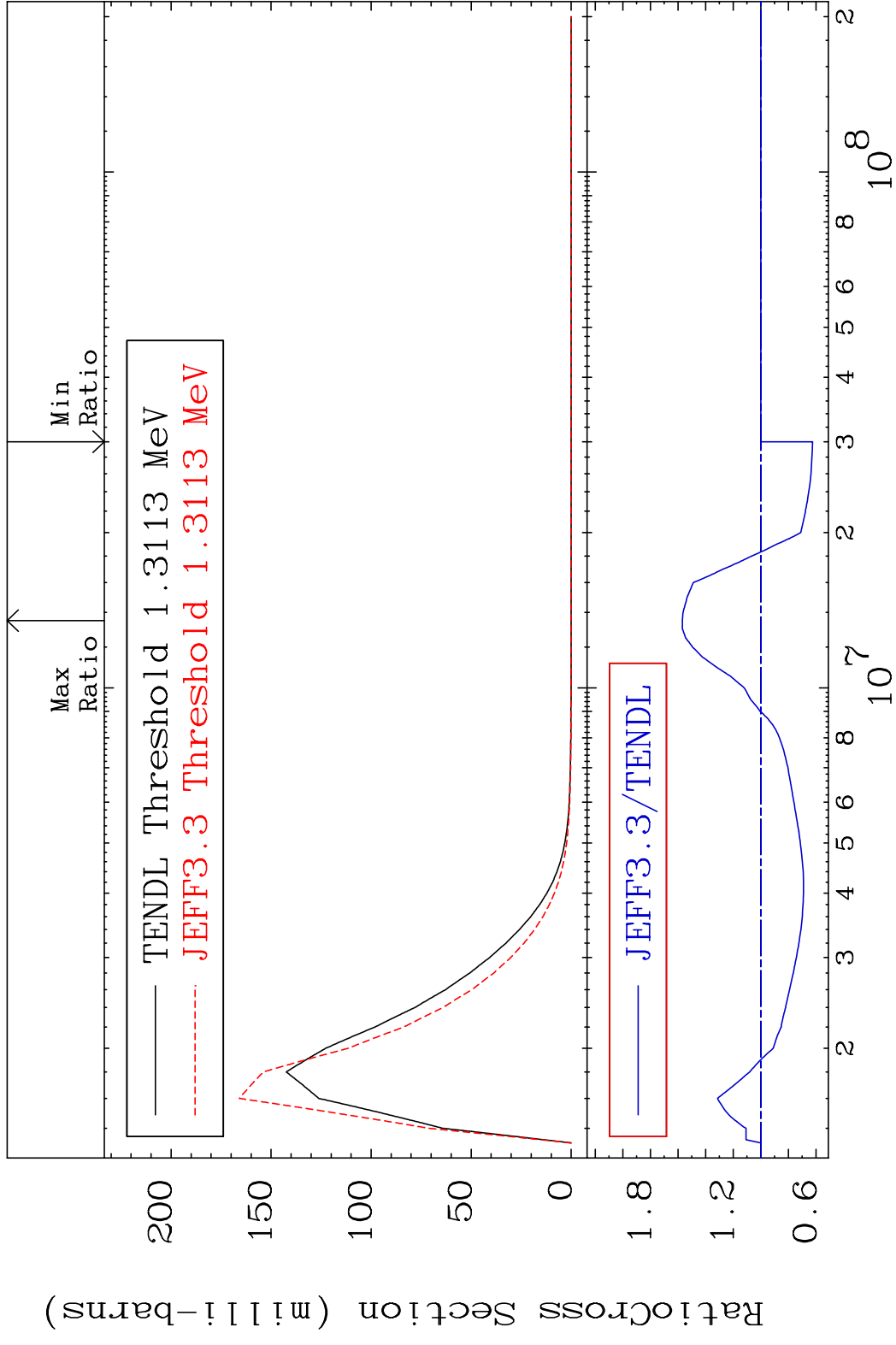
MAT 4125 MT= 61 (n, n') Level 41-Nb-93
 Cross Section -29.81 To 82.39 %



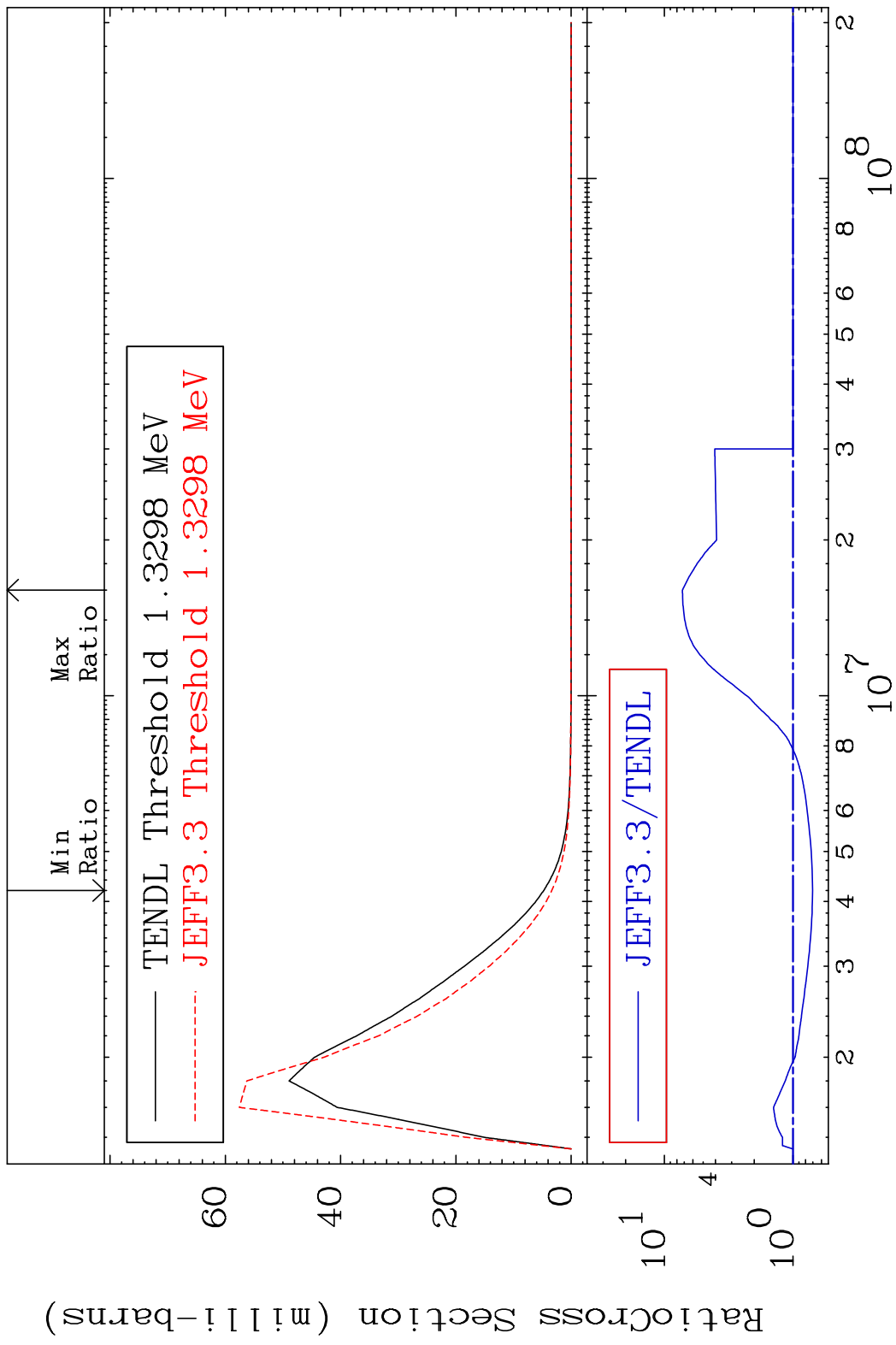
MAT 4125 MT= 62 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 82.76 %



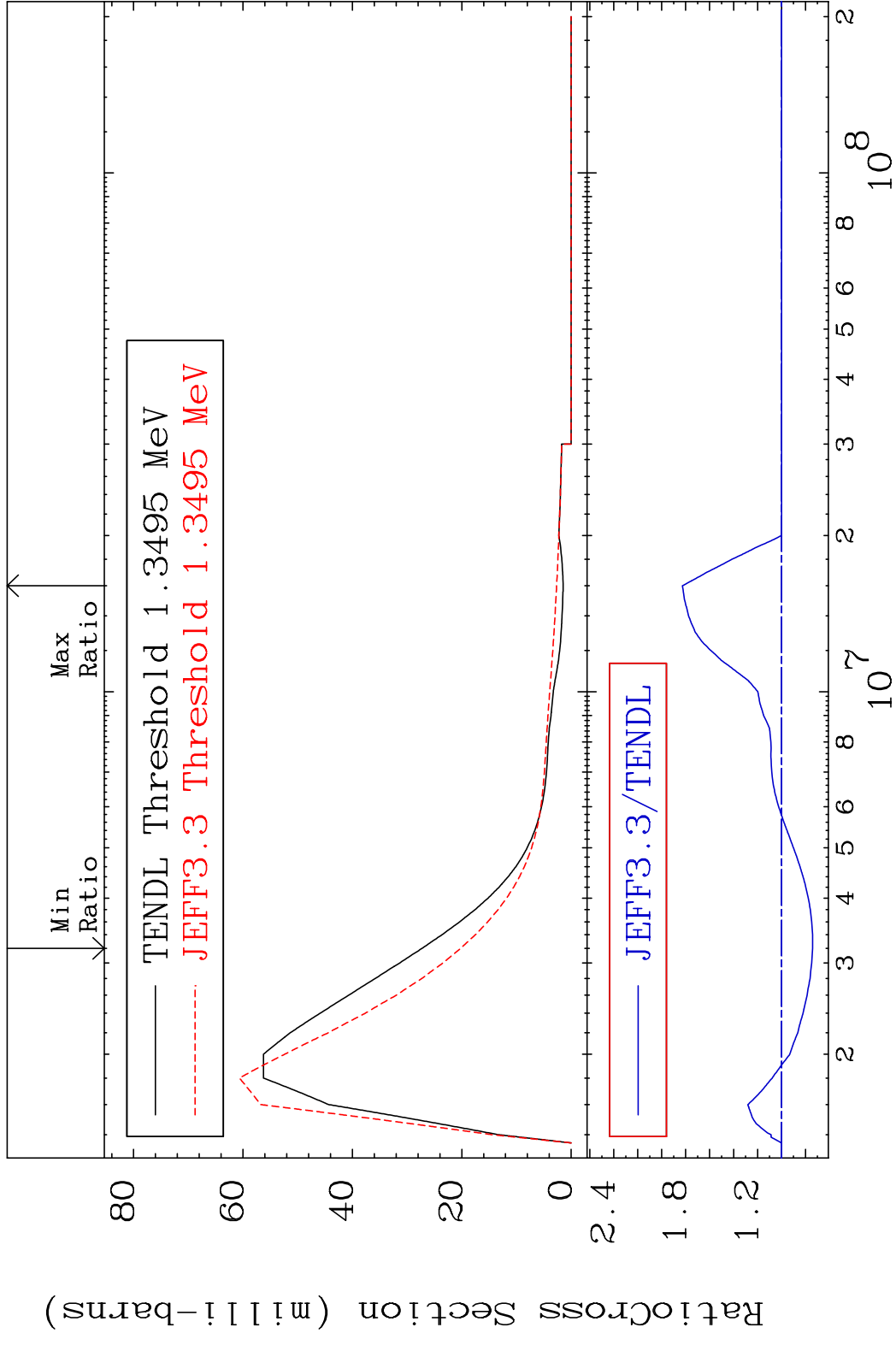
MAT 4125 MT= 63 (n, n') Level 41-Nb-93
 Cross Section -37.55 To 56.86 %



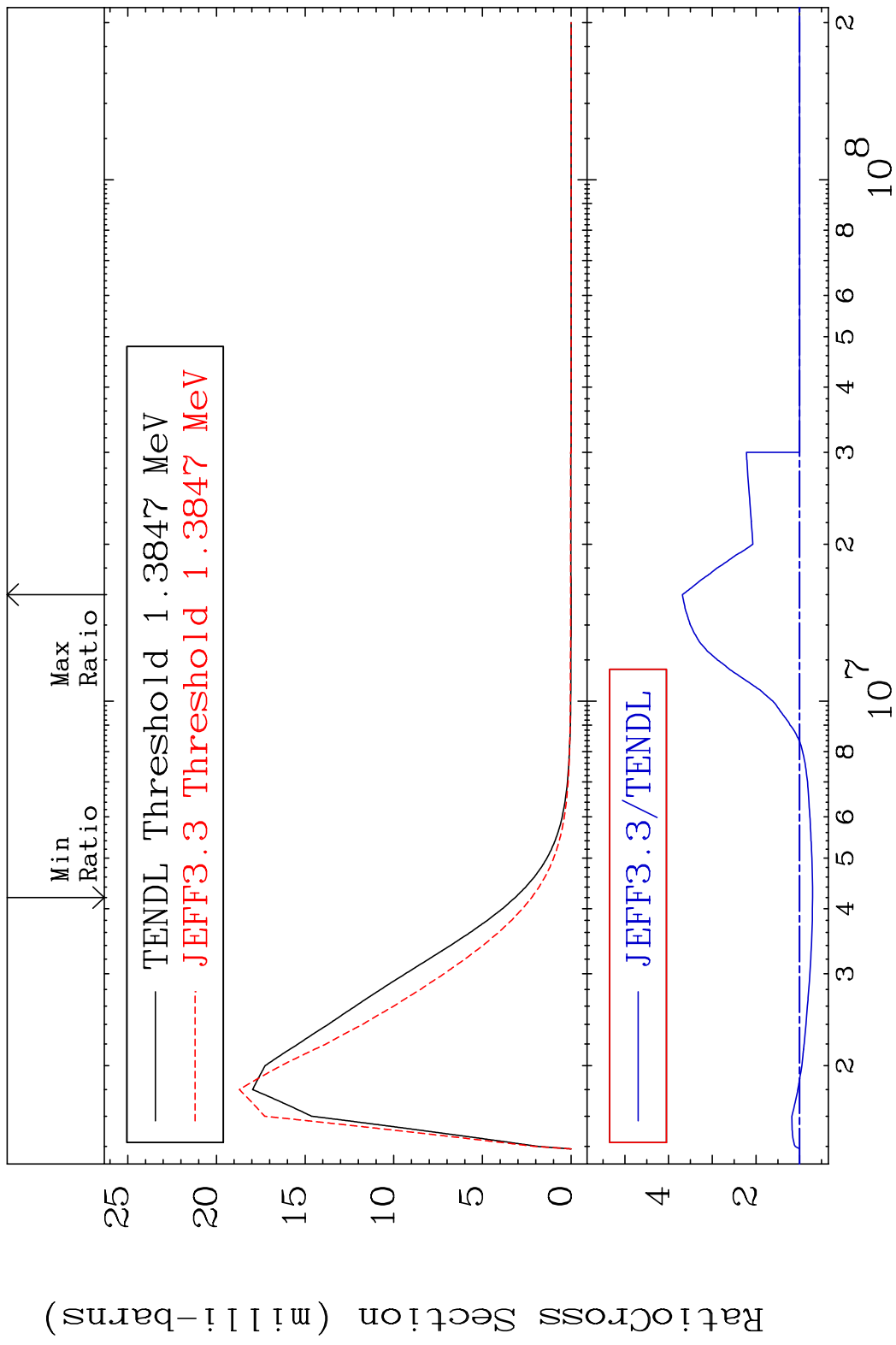
MAT 4125 MT= 64 (n, n') Level 41-Nb-93
 Cross Section -29.52 To 624.9 %



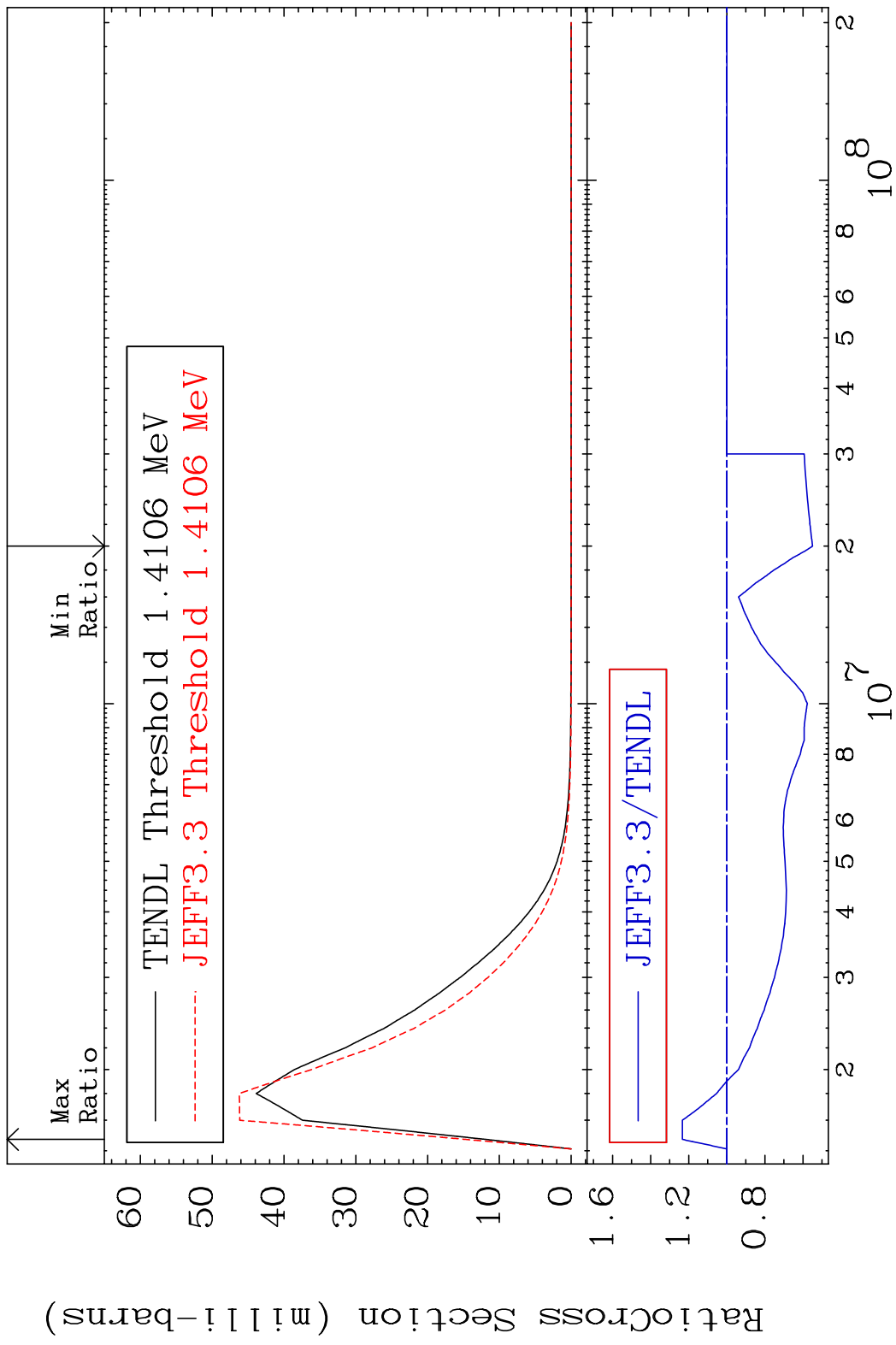
MAT 4125 MT= 65 (n, n') Level 41-Nb-93
 Cross Section -25.88 To 82.77 %



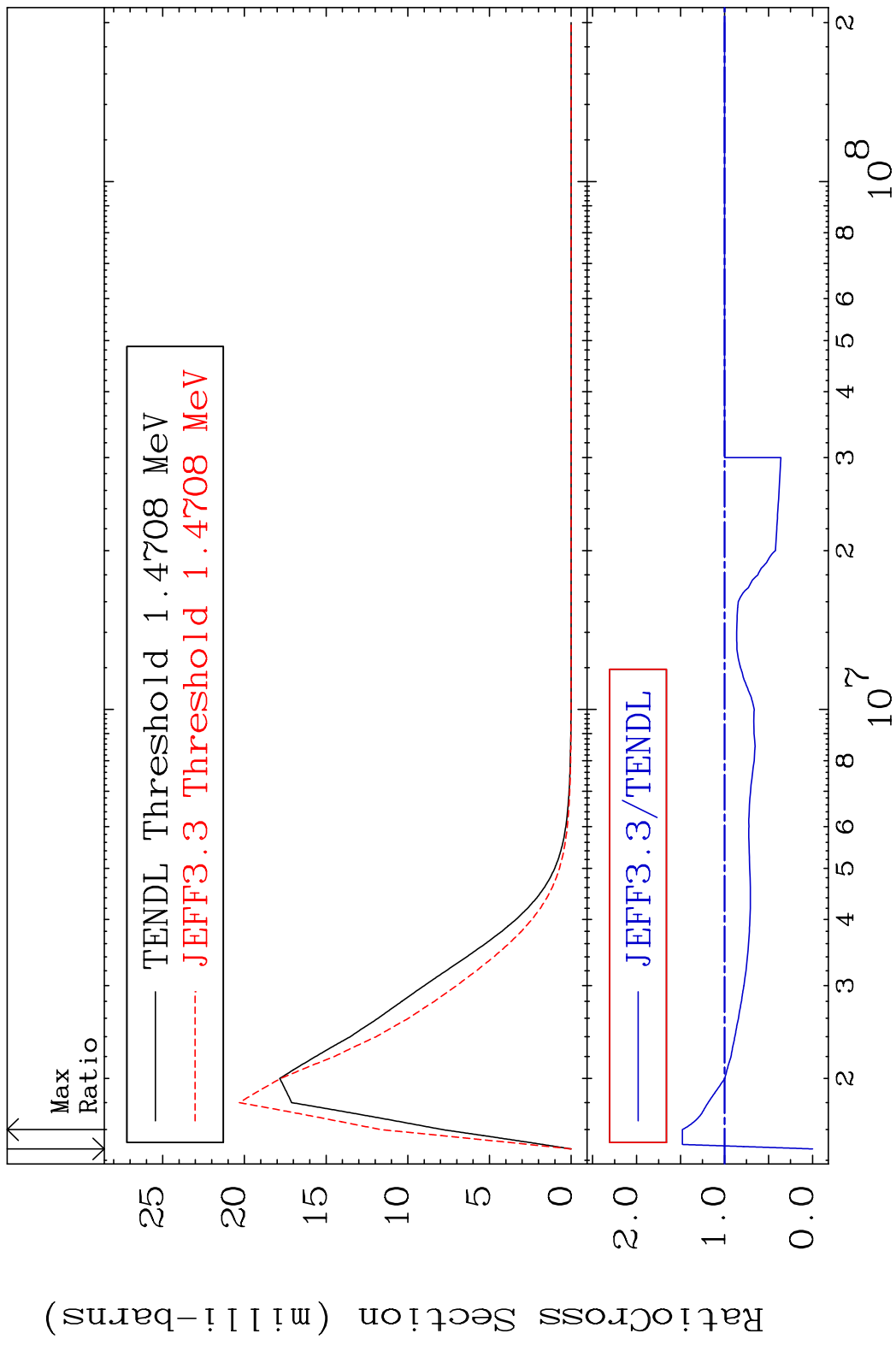
MAT 4125 MT= 66 (n, n') Level 41-Nb-93
 Cross Section -29.39 To 268.5 %



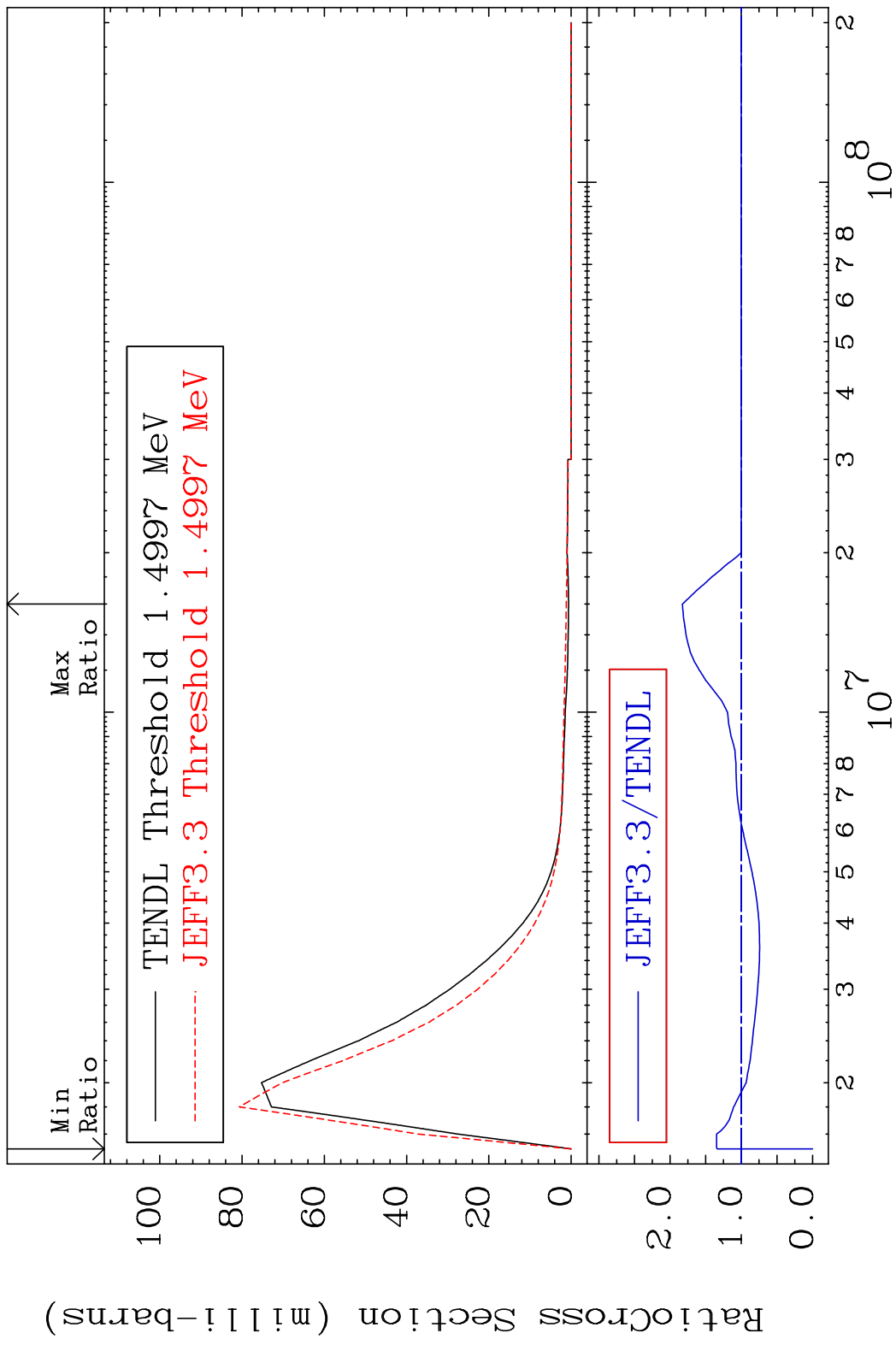
MAT 4125 MT= 67 (n,n') Level 41-Nb-93
 Cross Section -45.04 To 23.32 %



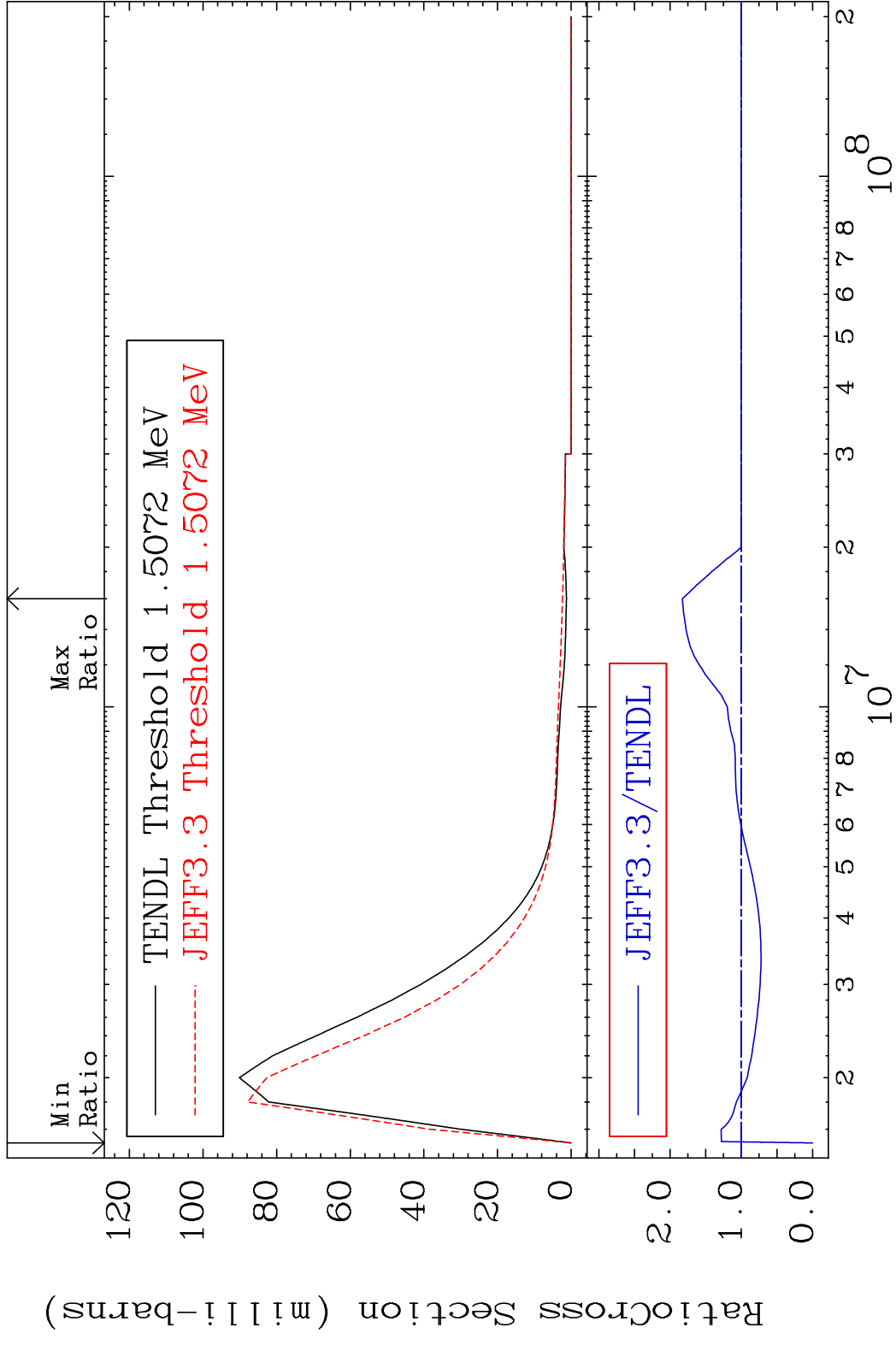
MAT 4125 MT= 68 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 47.97 %



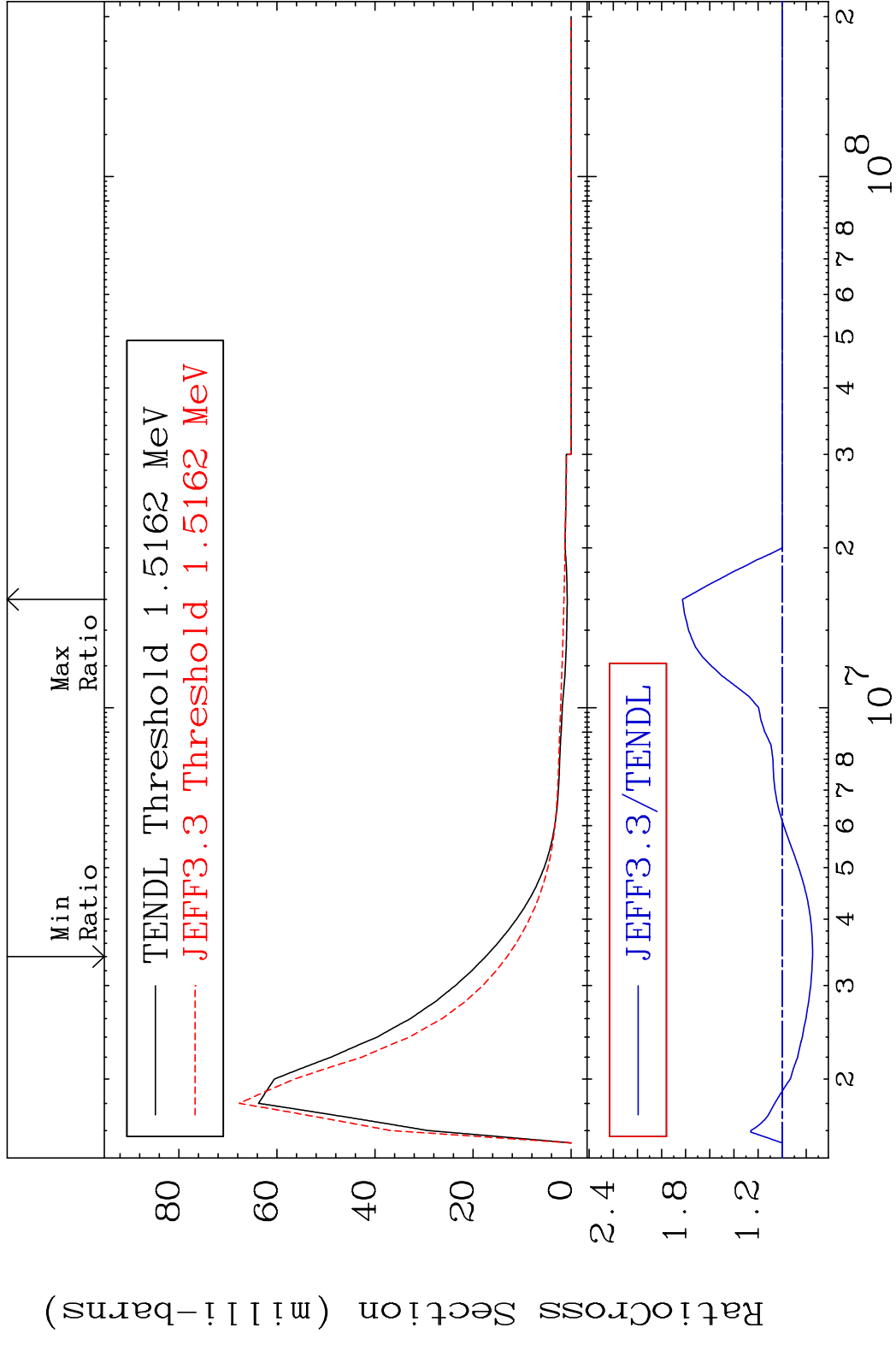
MAT 4125 MT= 69 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 82.76 %



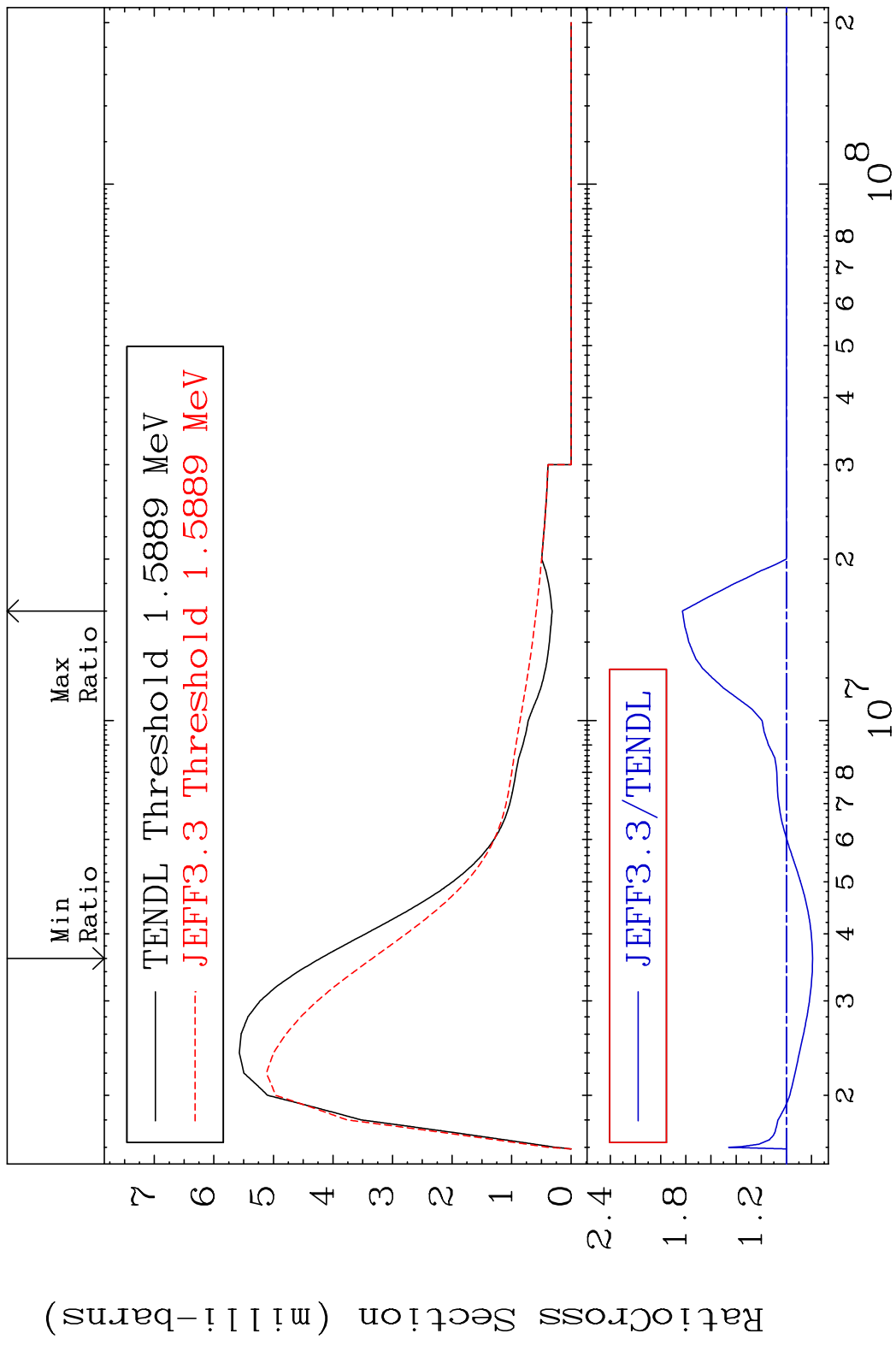
MAT 4125 MT= 70 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 82.76 %



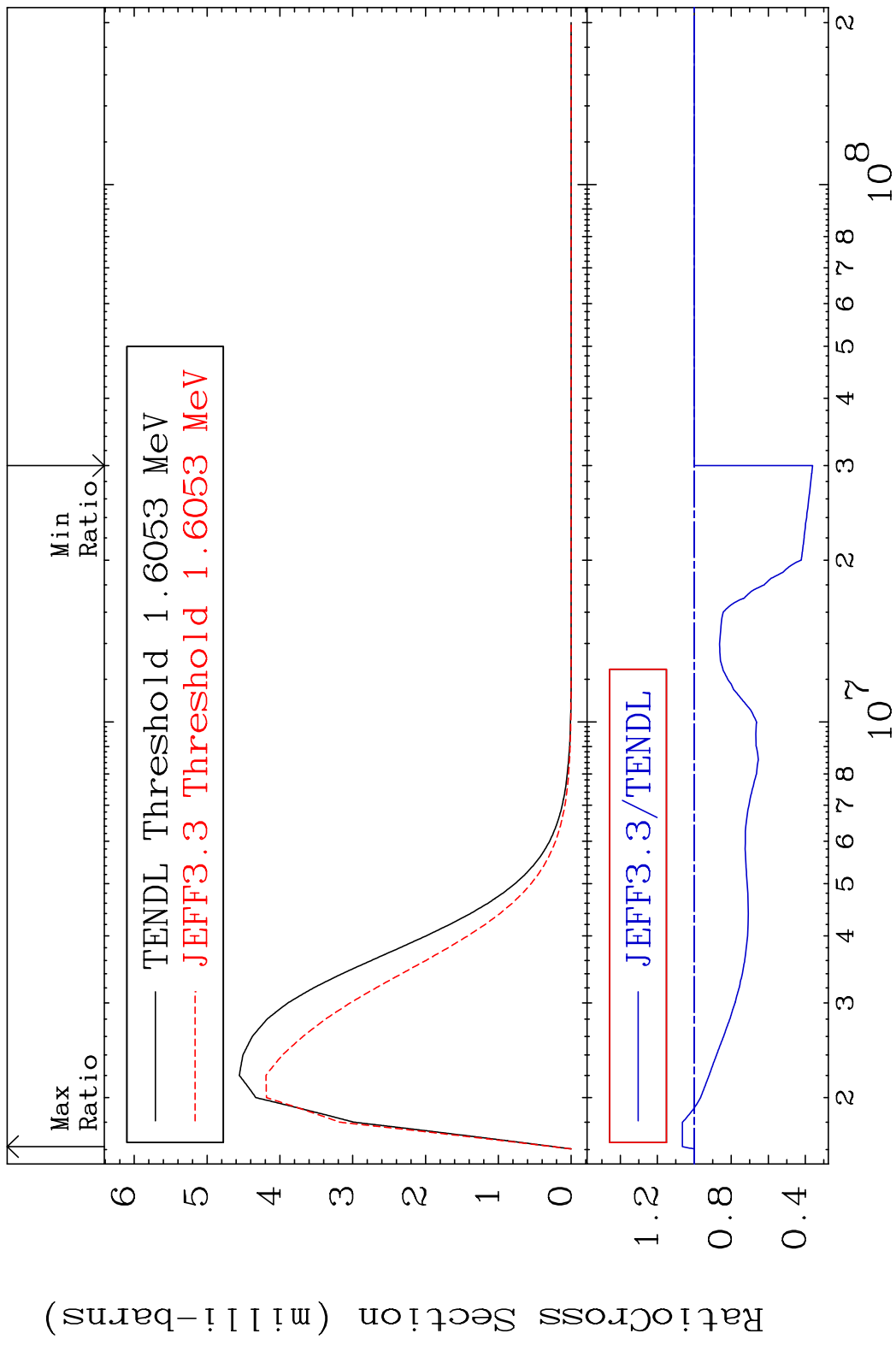
MAT 4125 MT= 71 (n, n') Level 41-Nb-93
 Cross Section -25.18 To 82.76 %



MAT 4125 MT= 72 (n,n') Level 41-Nb-93
 Cross Section -20.78 To 82.76 %

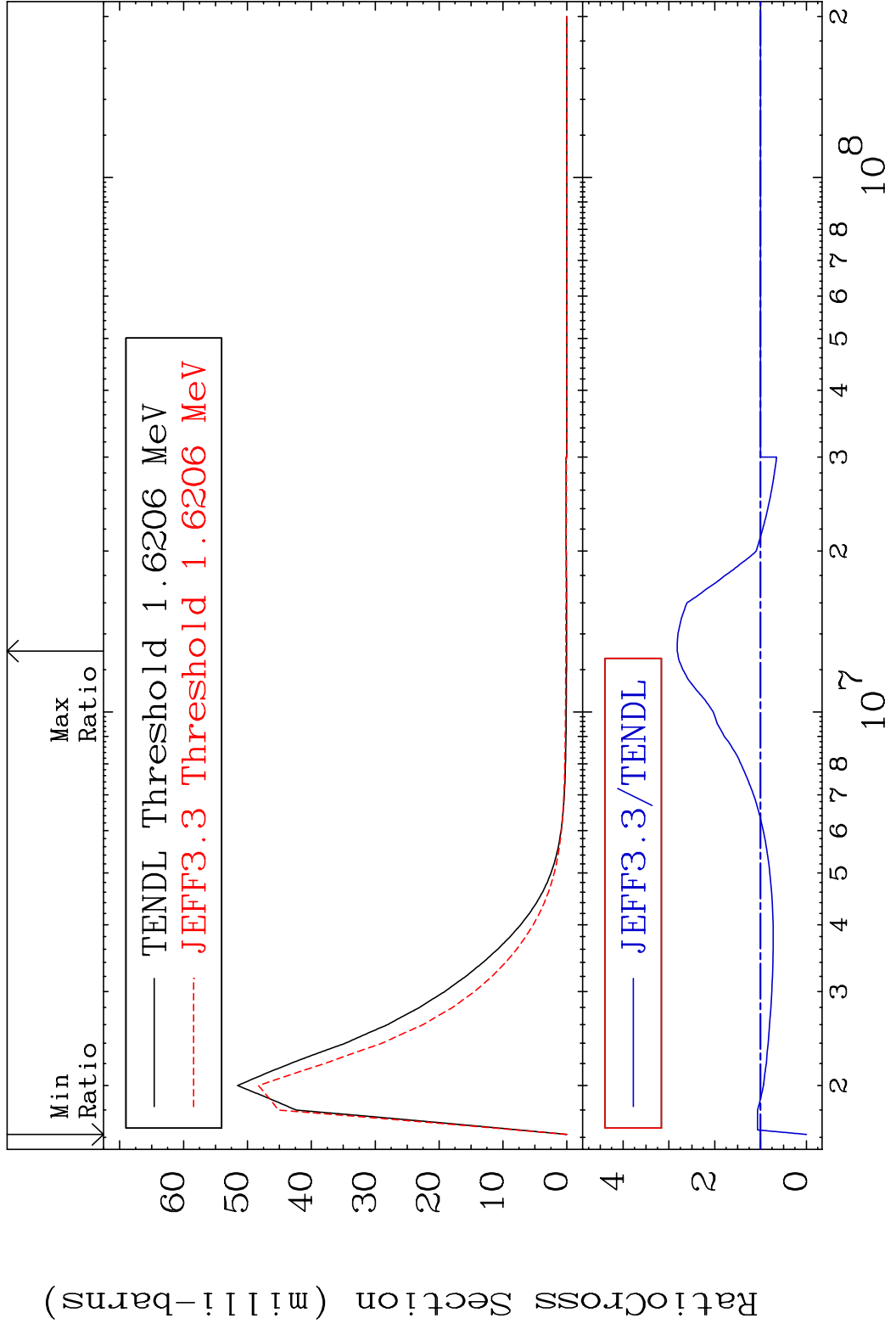


MAT 4125 MT= 73 (n, n') Level 41-Nb-93
 Cross Section -63.96 To 6.454 %



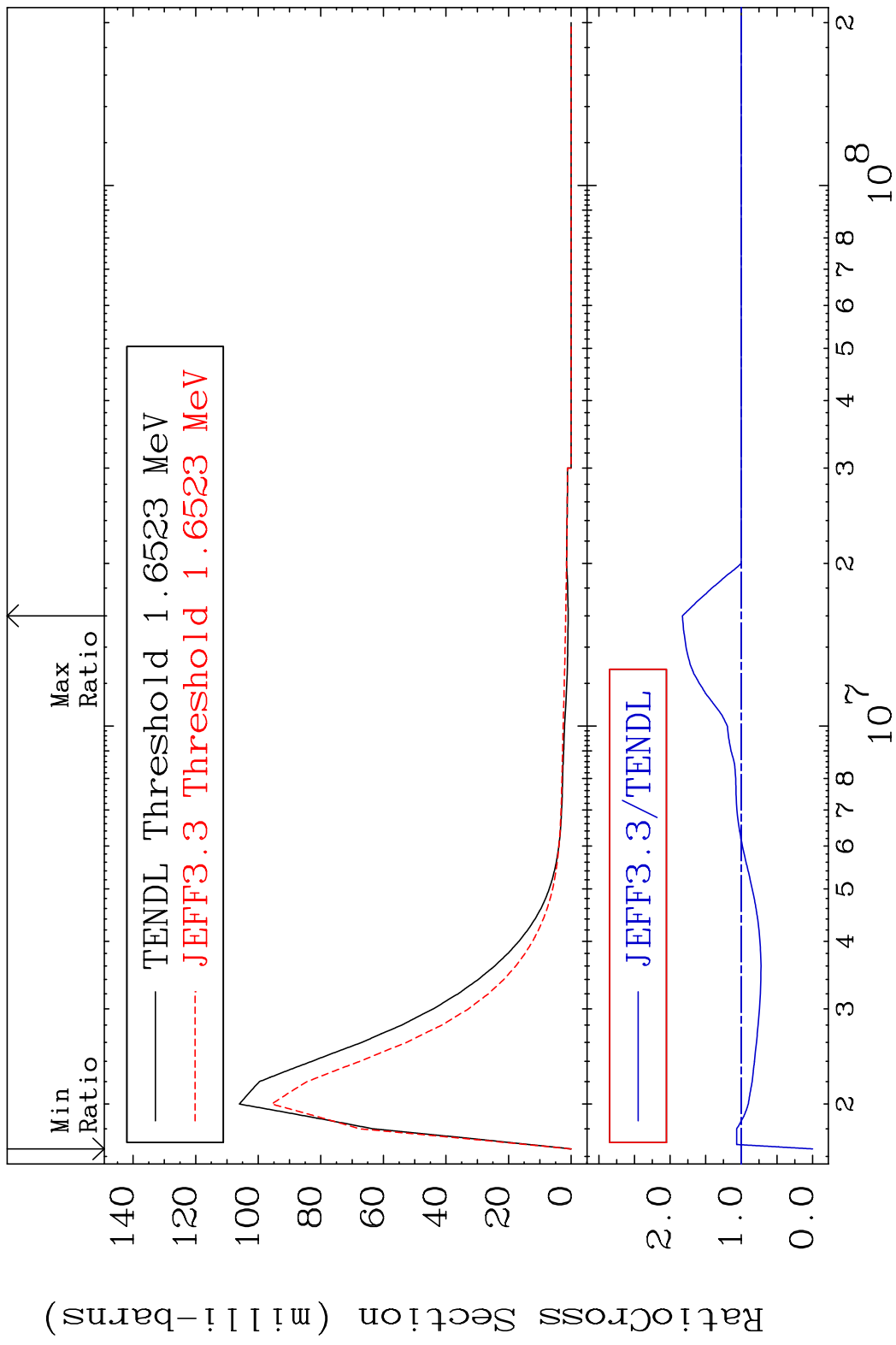
40 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 74 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 181.9 %



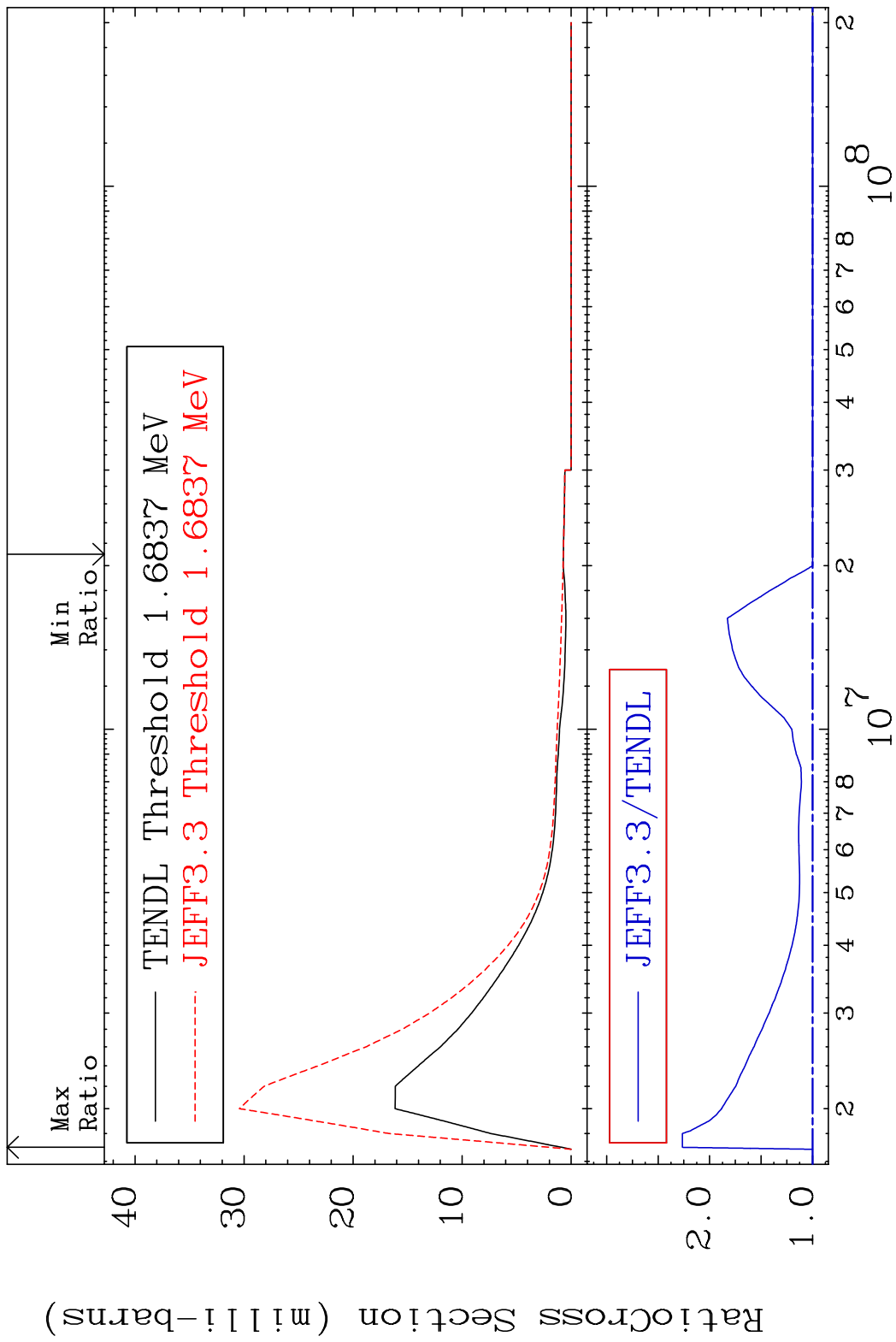
41 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 75 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 82.76 %

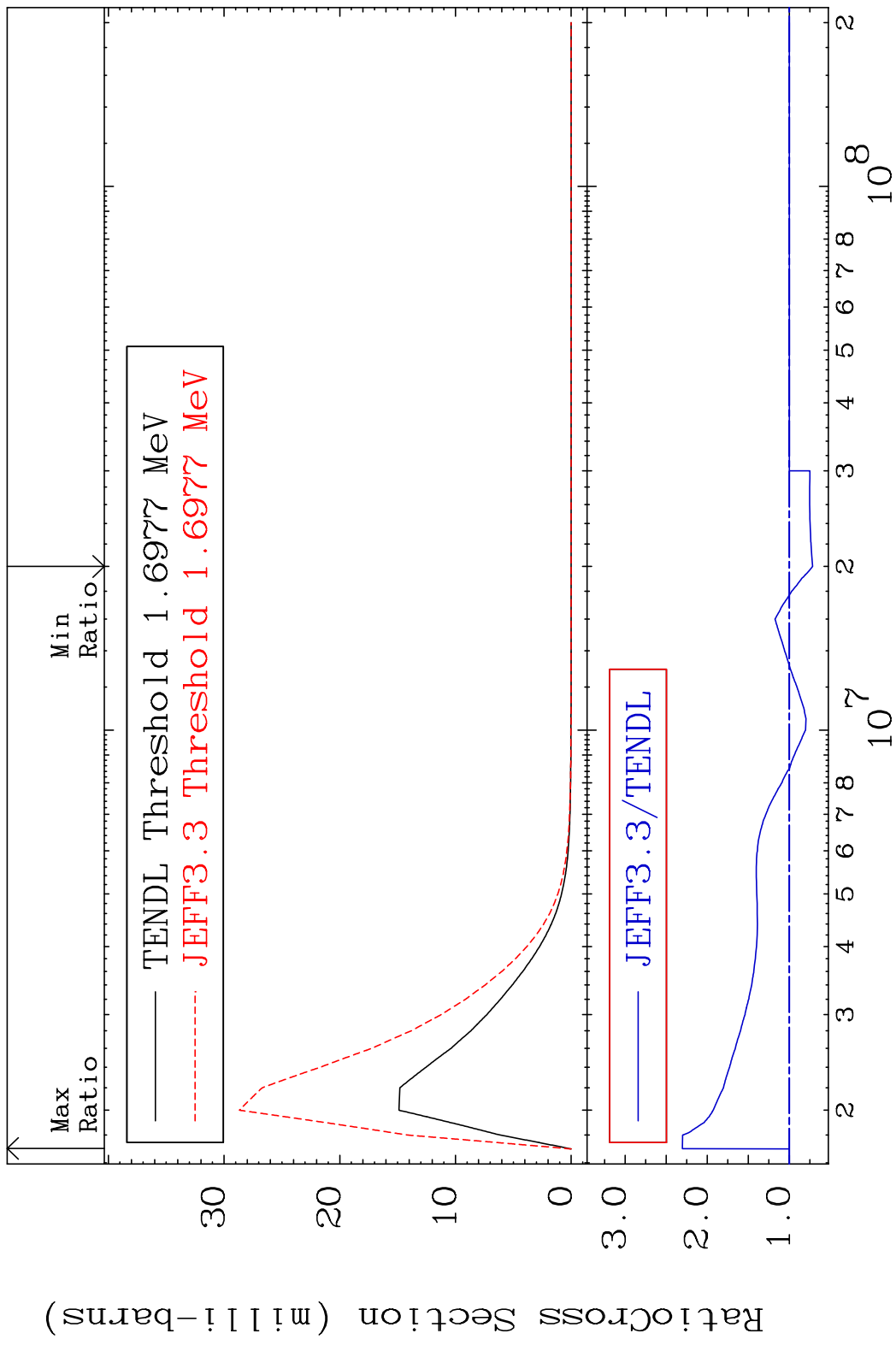


42 41-Nb-93

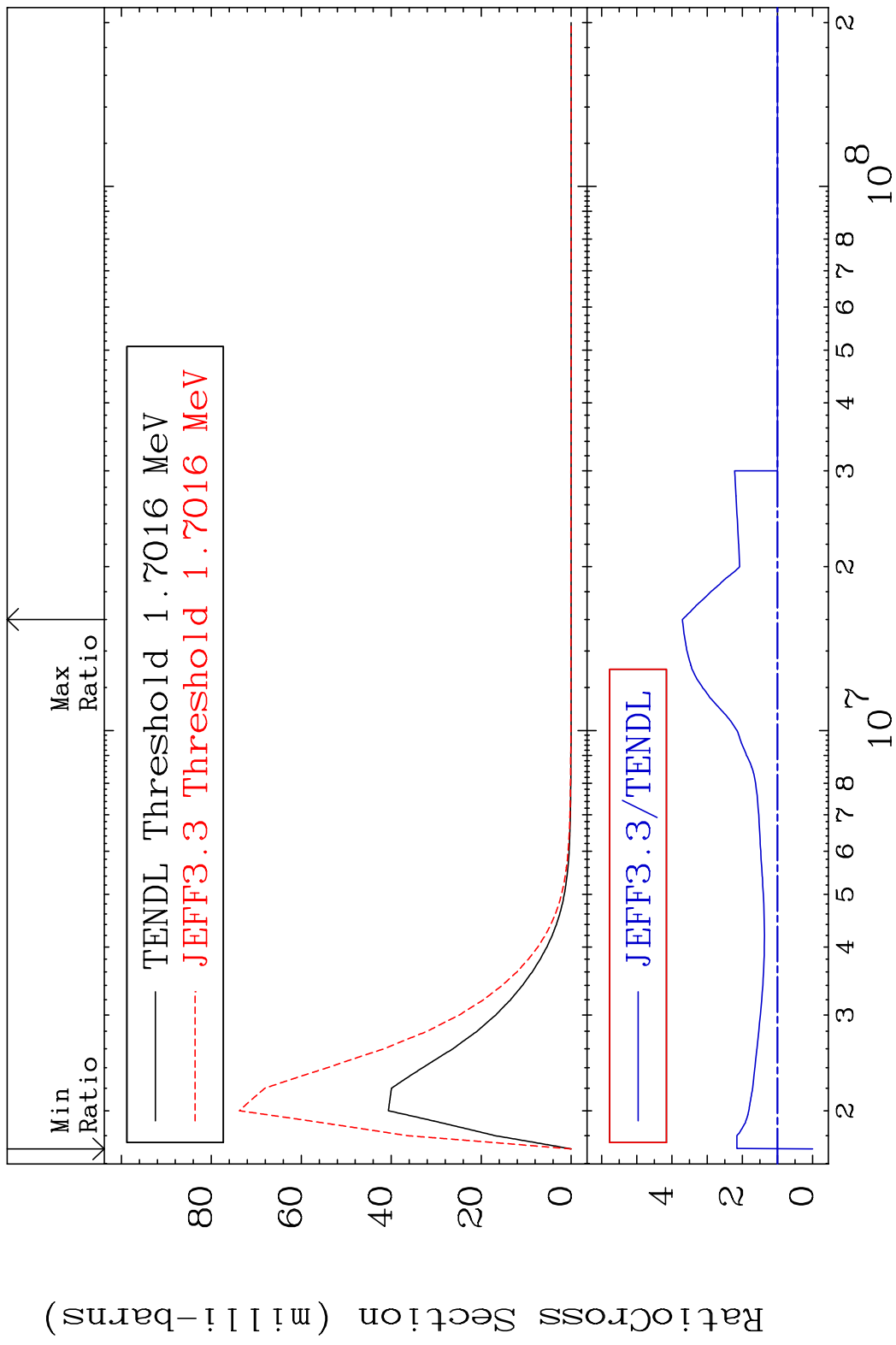
MAT 4125 MT= 76 (n,n') Level 41-Nb-93
 Cross Section 0.000 To 126.5 %



MAT 4125 MT= 77 (n,n') Level 41-Nb-93
 Cross Section -28.26 To 130.3 %

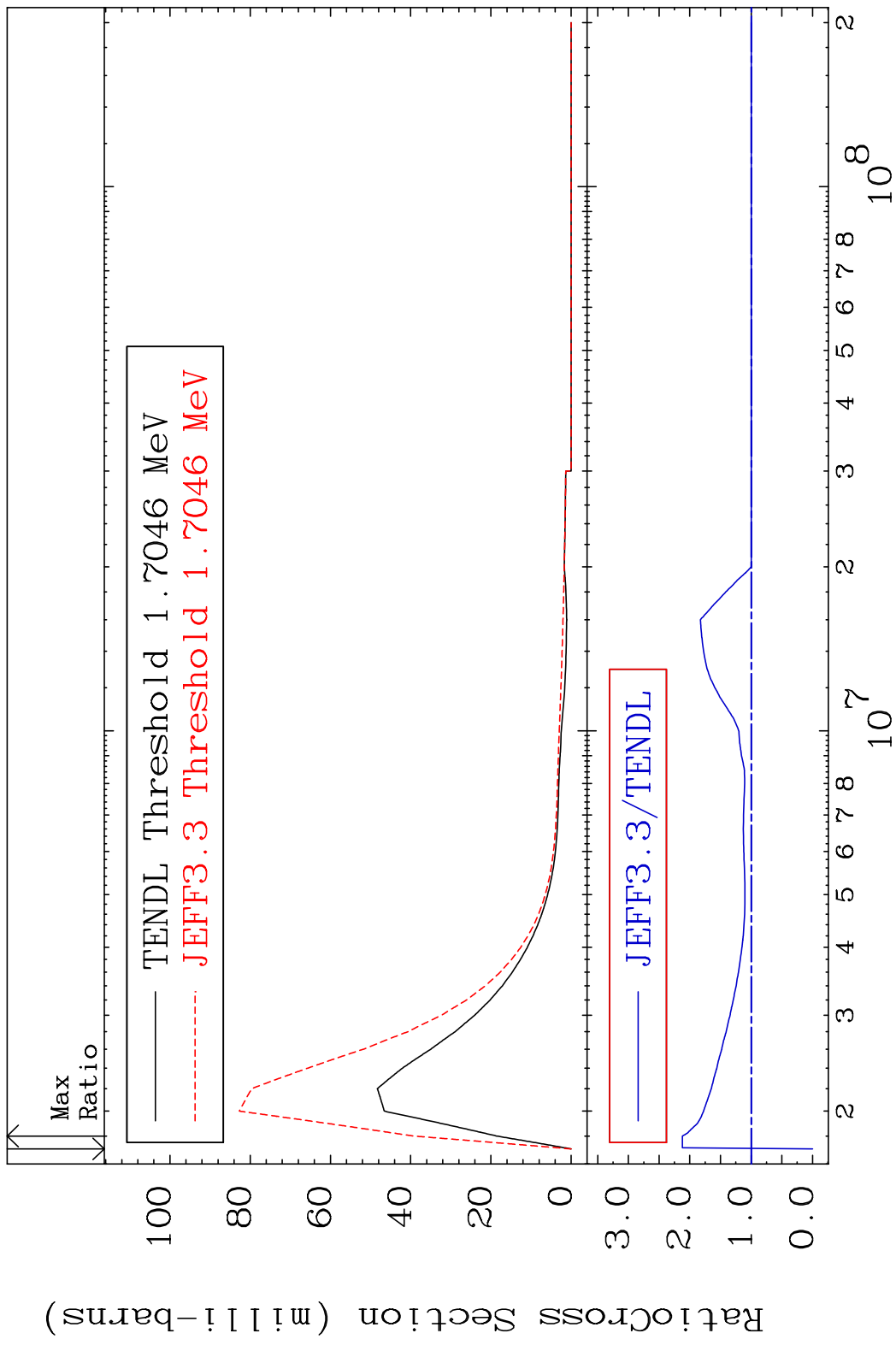


MAT 4125 MT= 78 (n,n') Level 41-Nb-93
 Cross Section -100.0 To 270.5 %

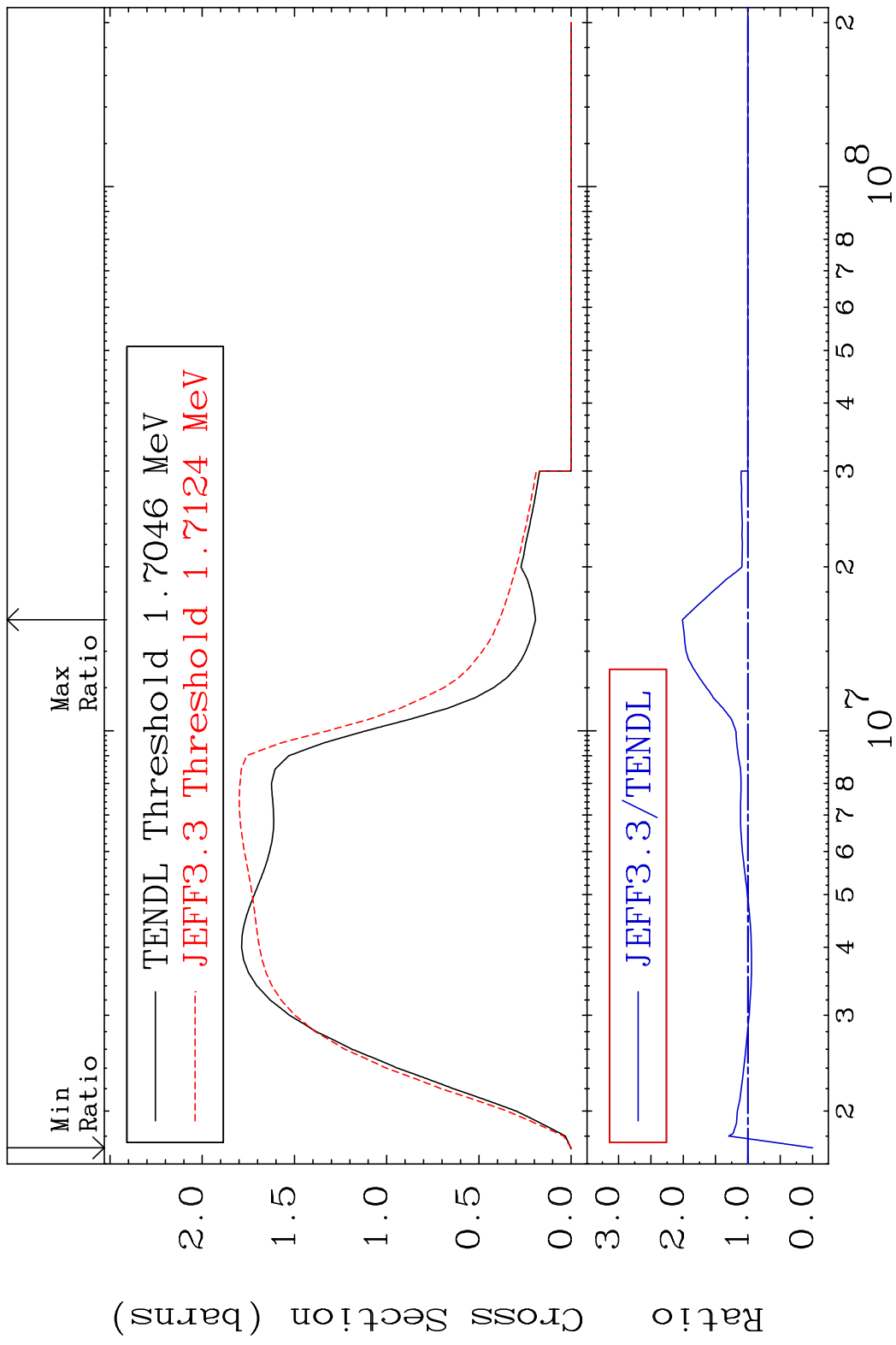


45 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 79 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 112.1 %



MAT 4125 (n, n') Continuum 41-Nb-93
 Cross Section -100.0 To 101.3 %



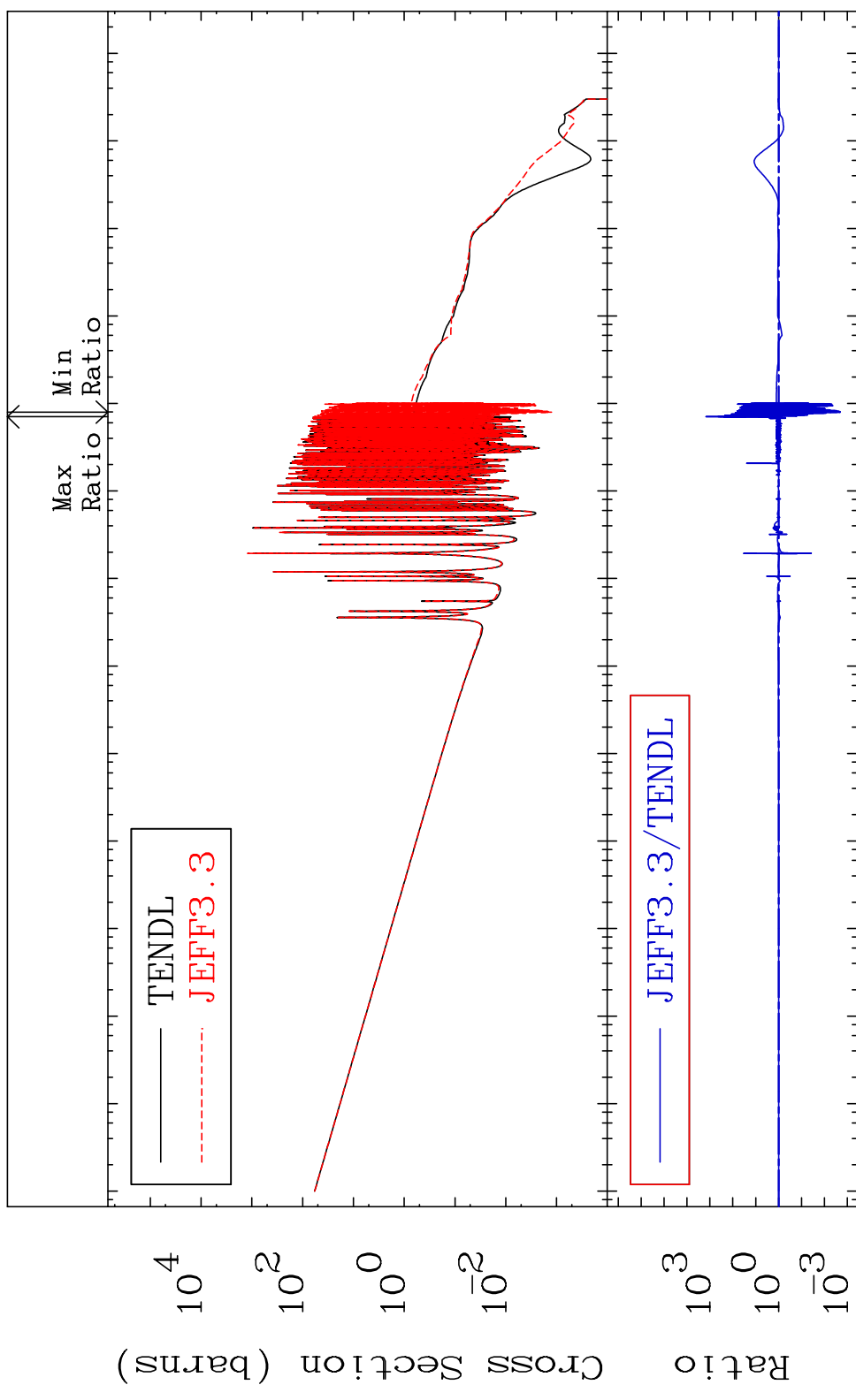
47 41-Nb-93

MAT 4125

(n, γ)

41-Nb-93

Cross Section -99.80 To 9999. %



48

Incident Energy (eV)

41-Nb-93

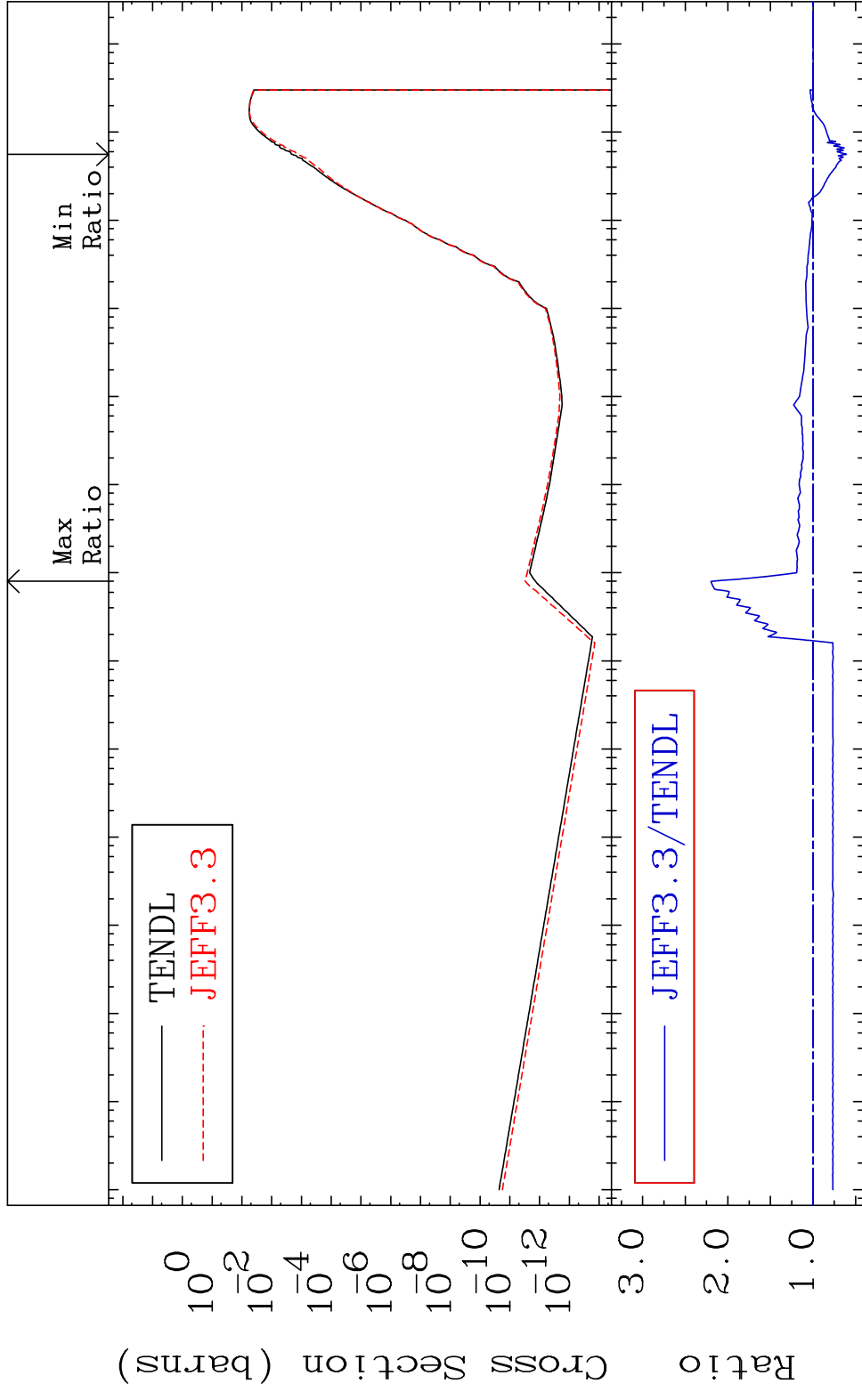
MAT 4125

(n, p)

41-Nb-93

Cross Section

-39.10 To 120.1 %



49

Incident Energy (eV)

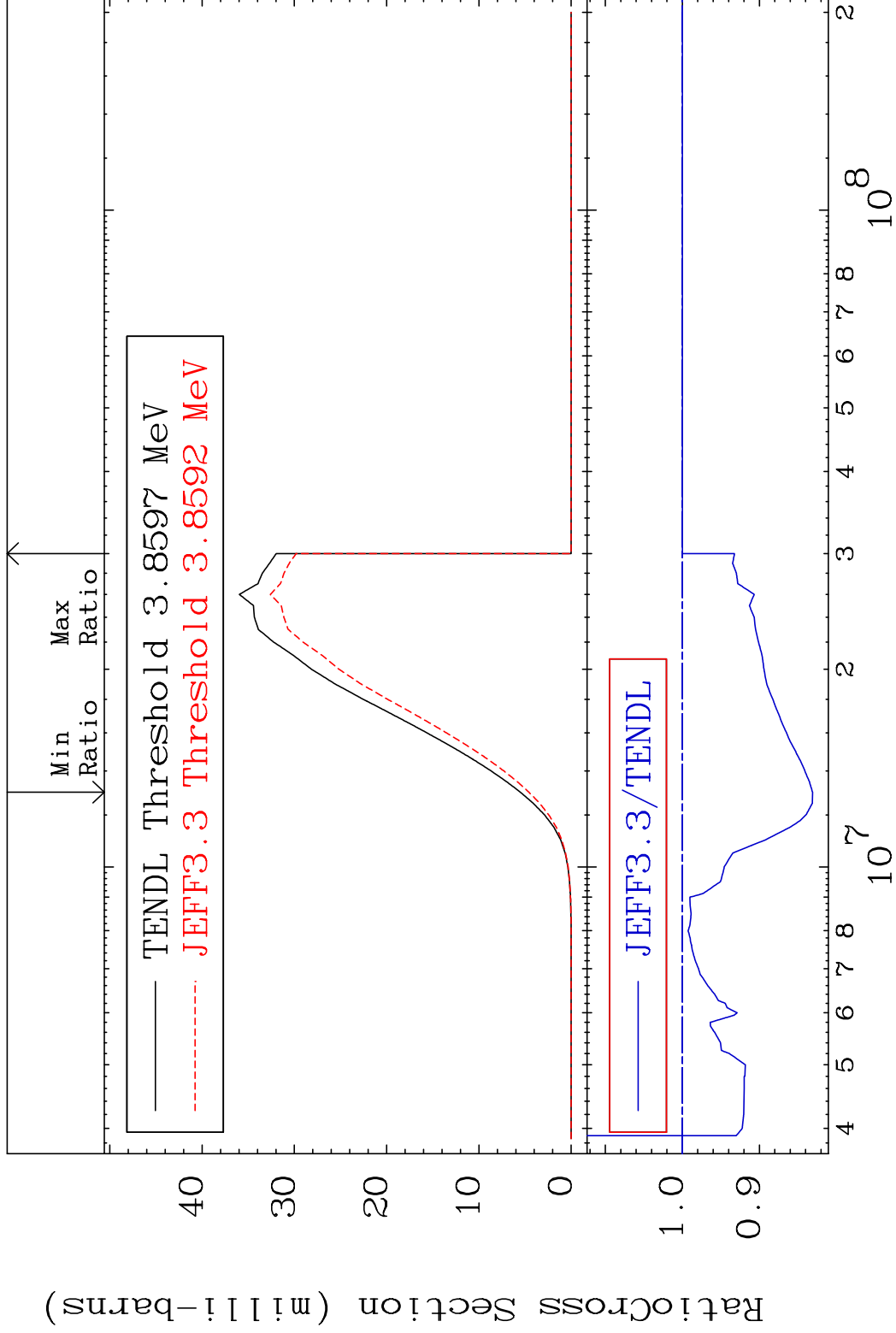
41-Nb-93

MAT 4125

(n, d)

41-Nb-93

Cross Section -16.90 To 0.000 %



50

Incident Energy (eV)

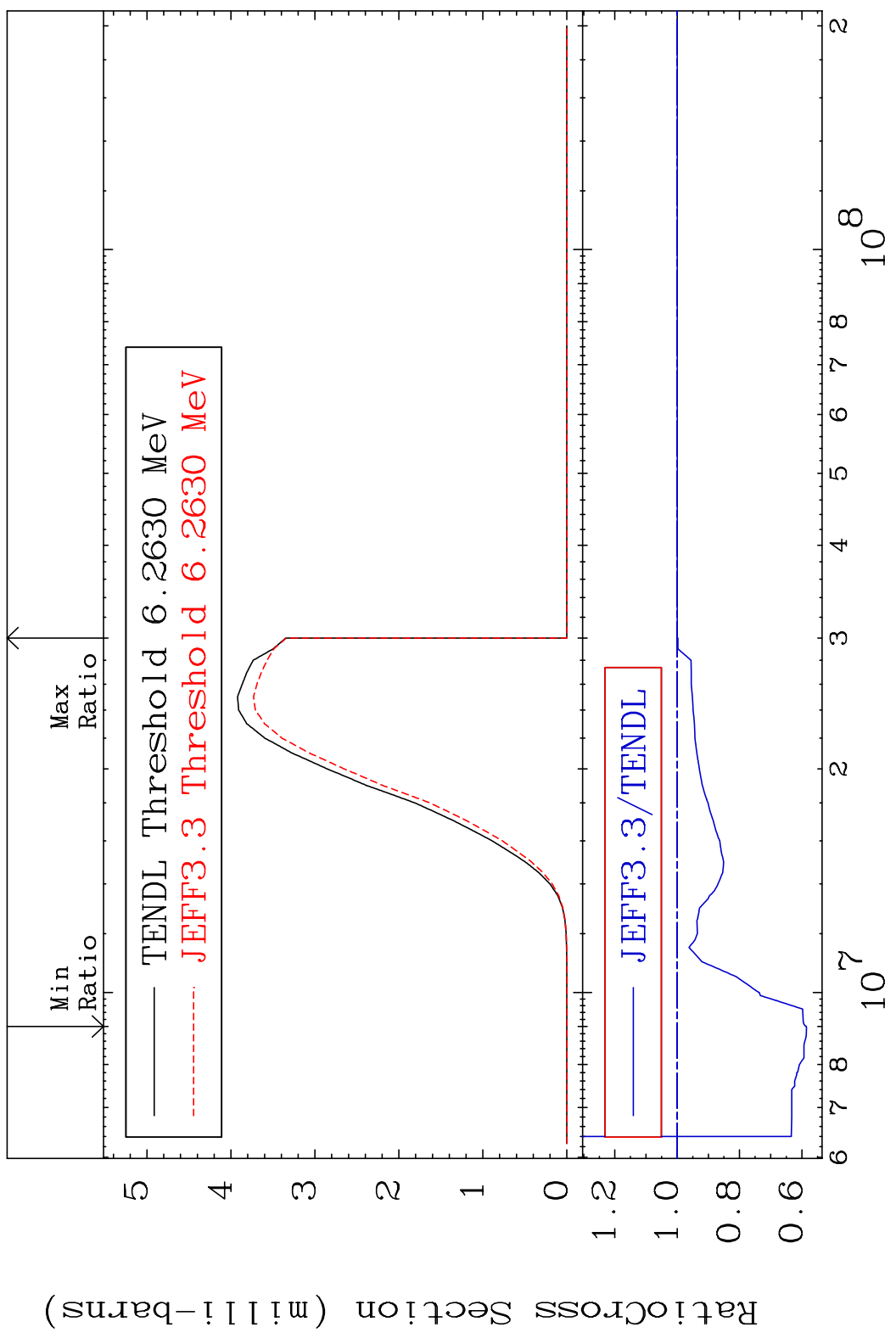
41-Nb-93

MAT 4125

(n, t)

41-Nb-93

Cross Section -41.45 To 0.000 %

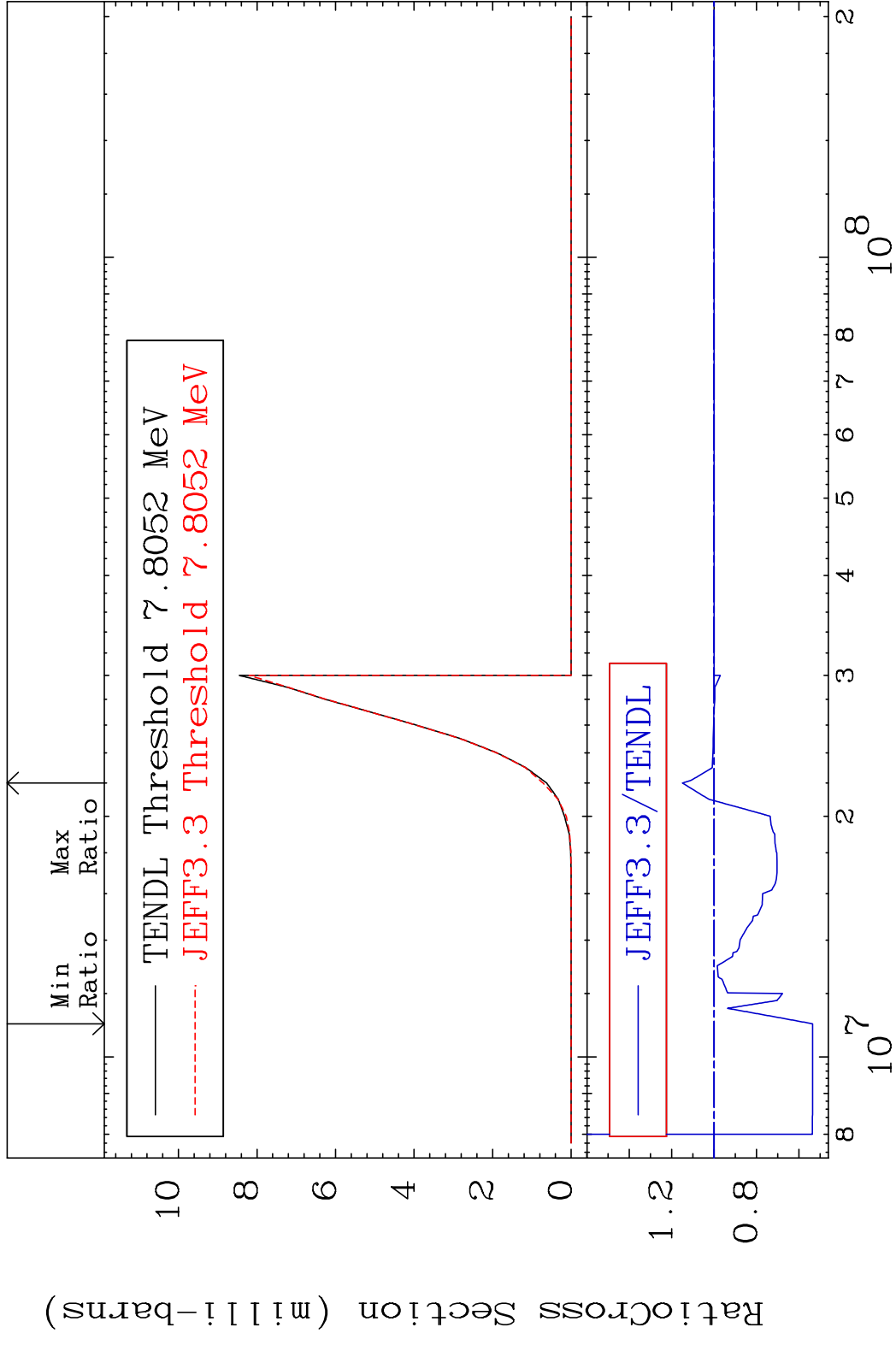


MAT 4125

(n, He-3)

41-Nb-93

Cross Section -46.42 To 14.98 %

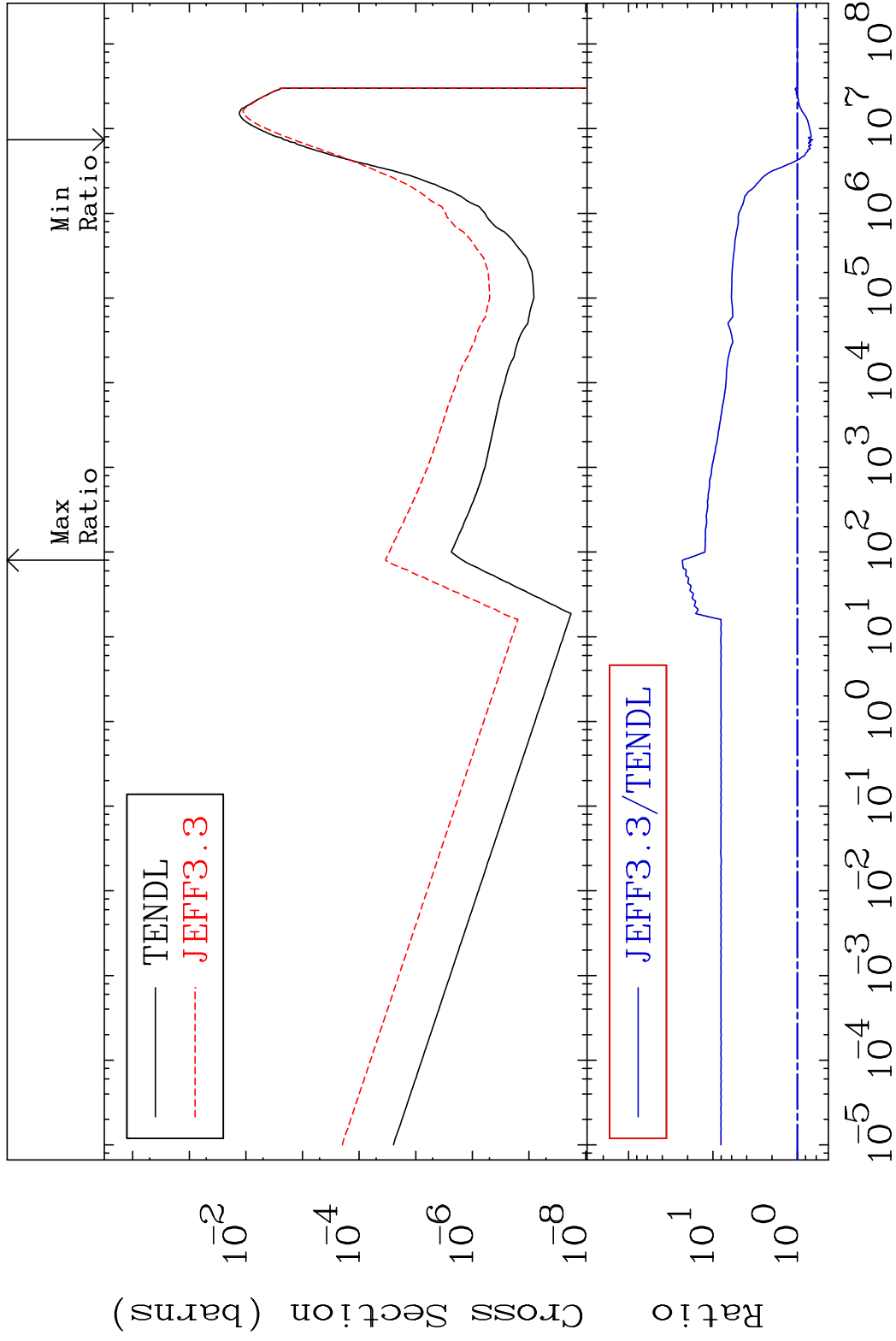


MAT 4125

(n, α)

41-Nb-93

Cross Section -33.83 To 2209. %

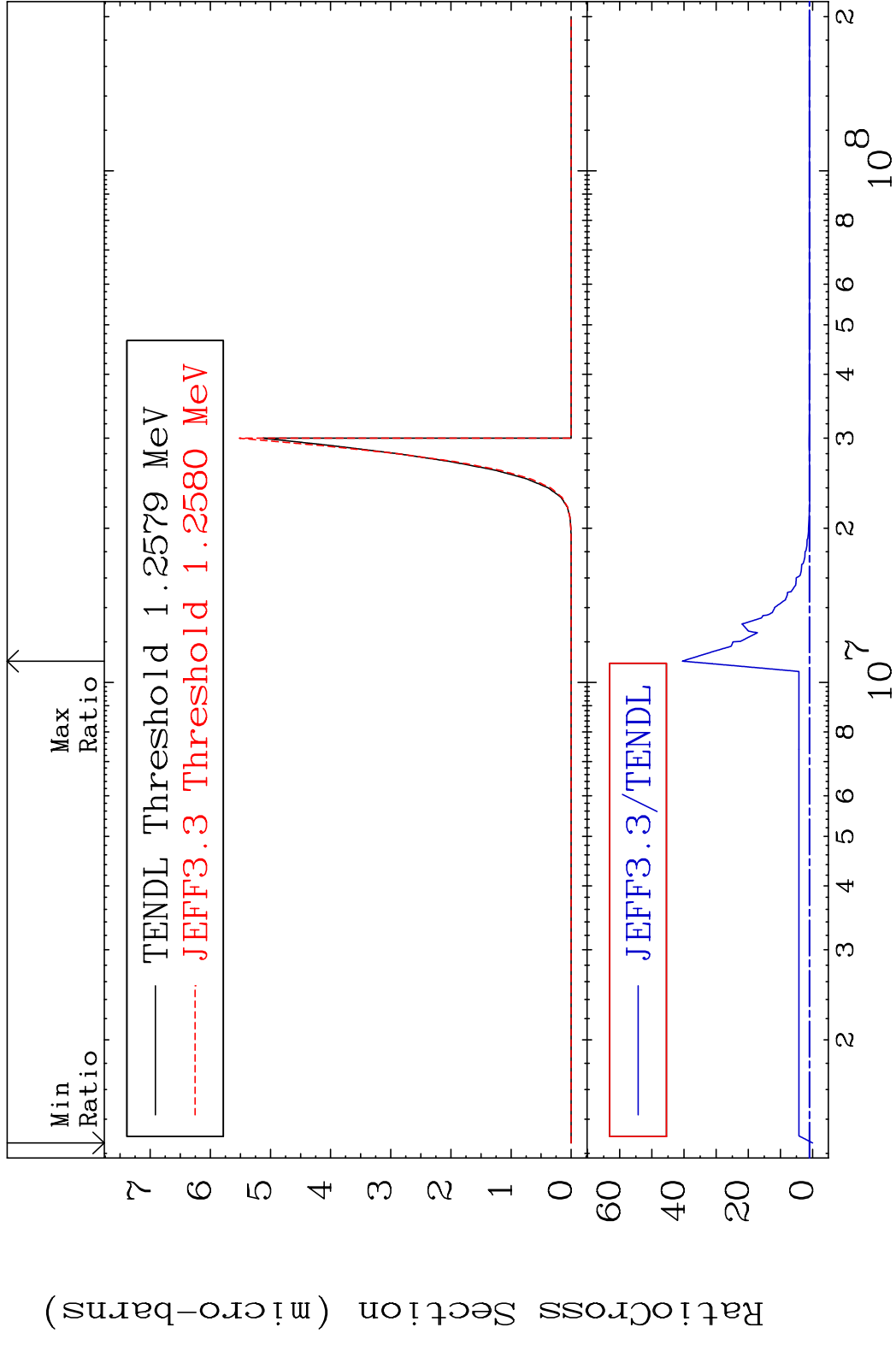


53

Incident Energy (eV)

41-Nb-93

MAT 4125 (n,2α) 41-Nb-93
 Cross Section -100.0 To 3952. %

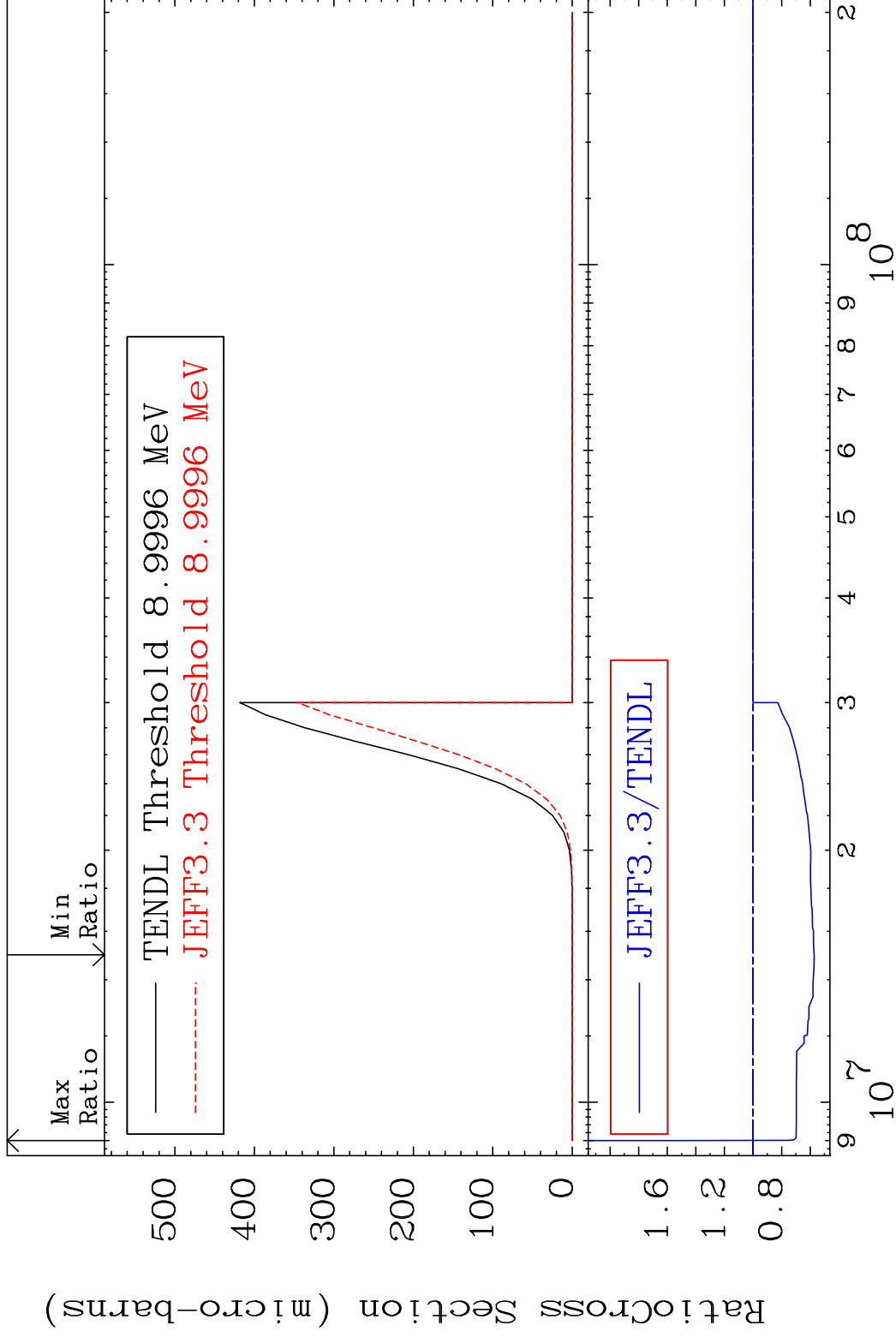


MAT 4125

(n,2p)

41-Nb-93

Cross Section -42.74 To 48.52 %



55

Incident Energy (eV)

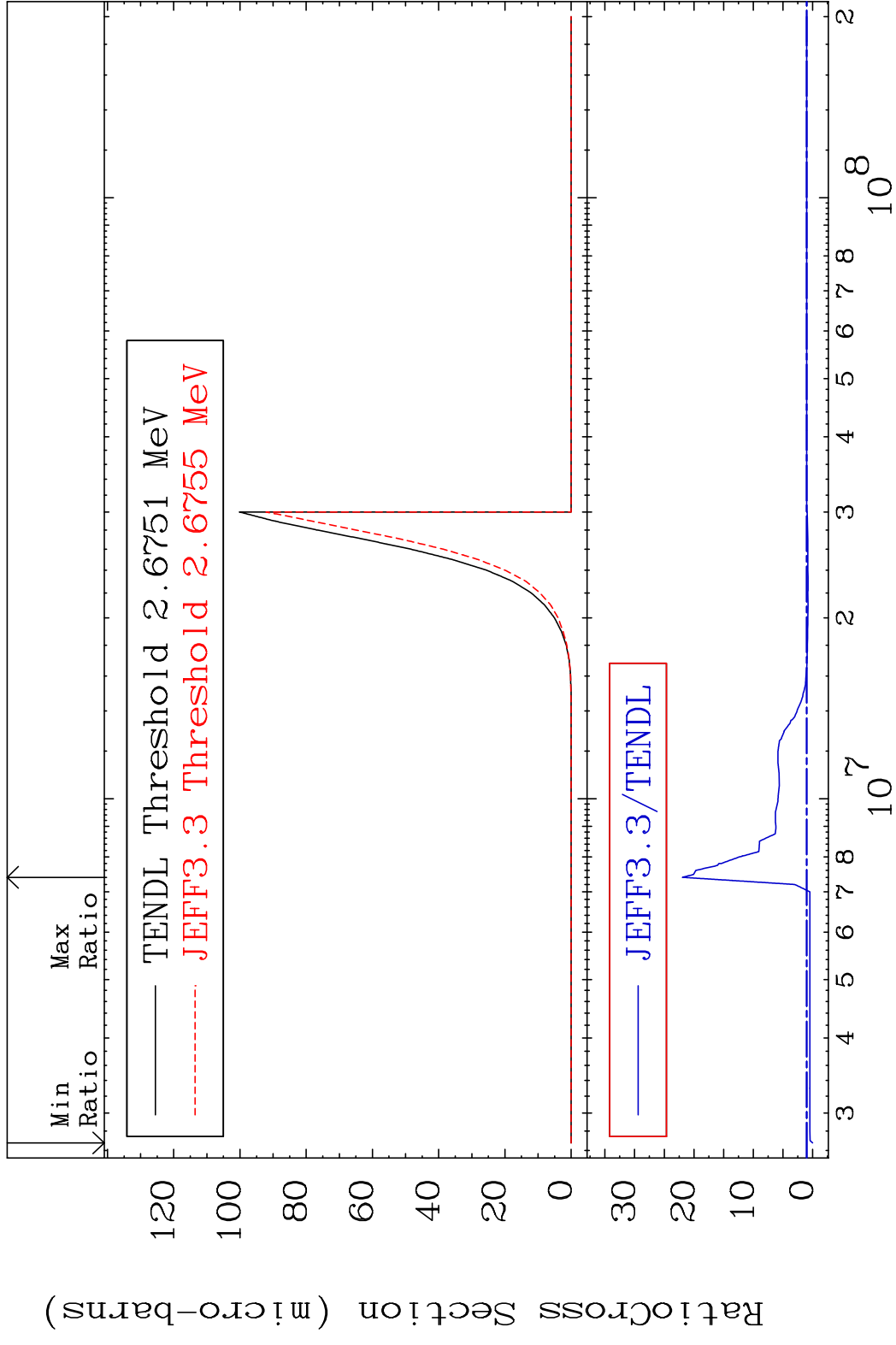
41-Nb-93

MAT 4125

(n,p) α

41-Nb-93

Cross Section -100.0 To 2095. %

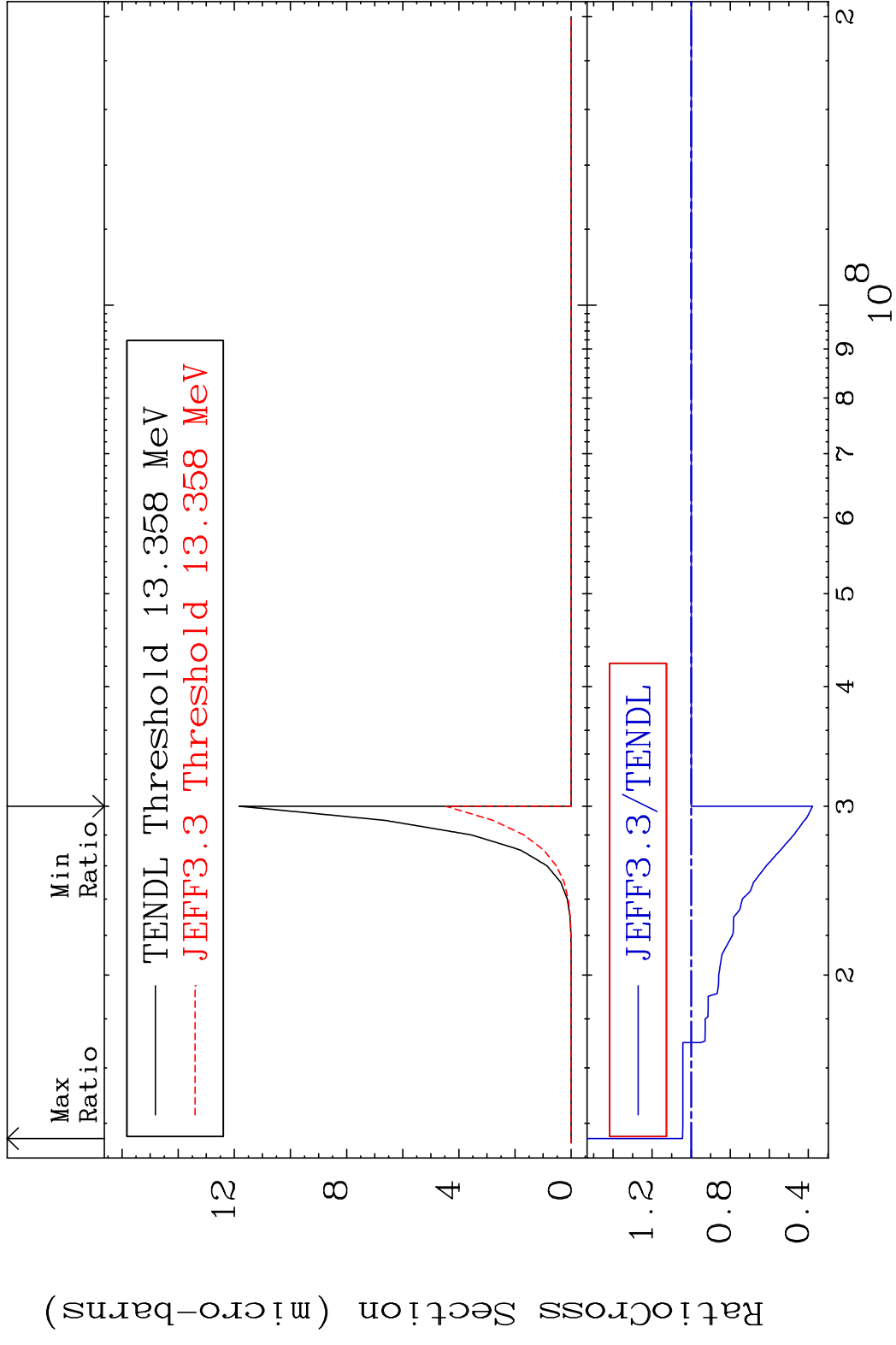


MAT 4125

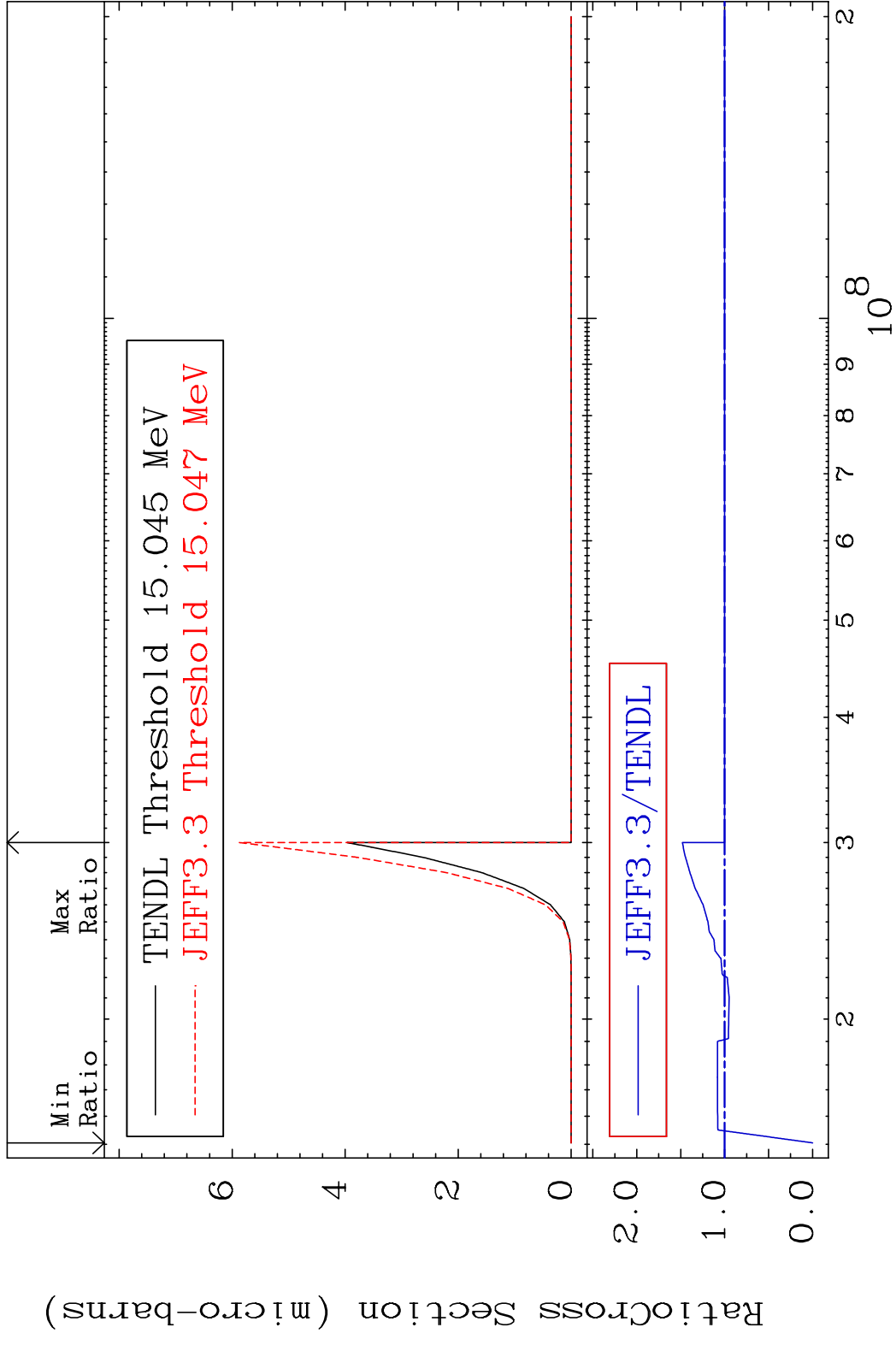
(n,p) d

41-Nb-93

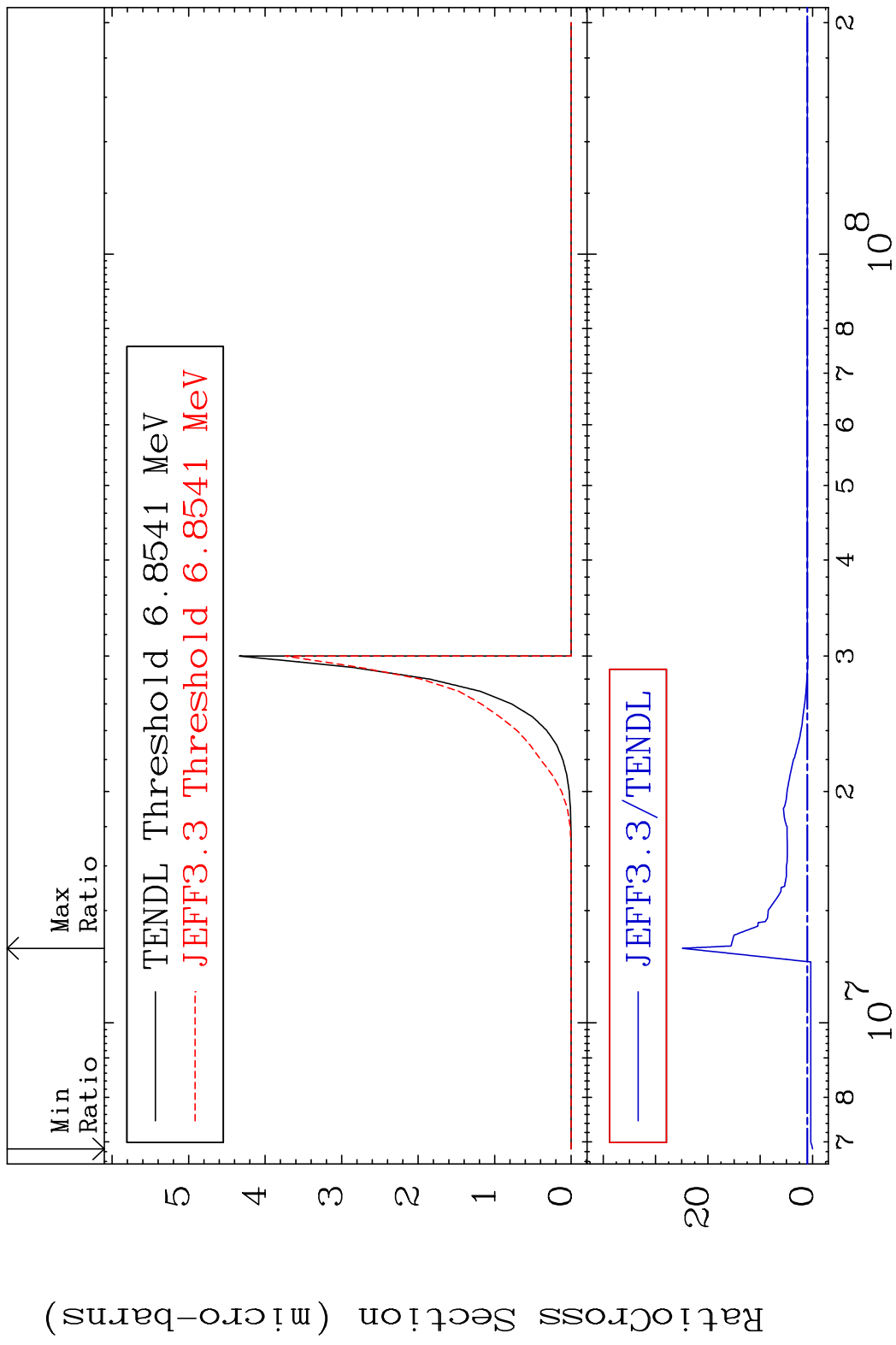
Cross Section -62.17 To 4.523 %



MAT 4125 (n,p) t 41-Nb-93
 Cross Section -100.0 To 48.16 %



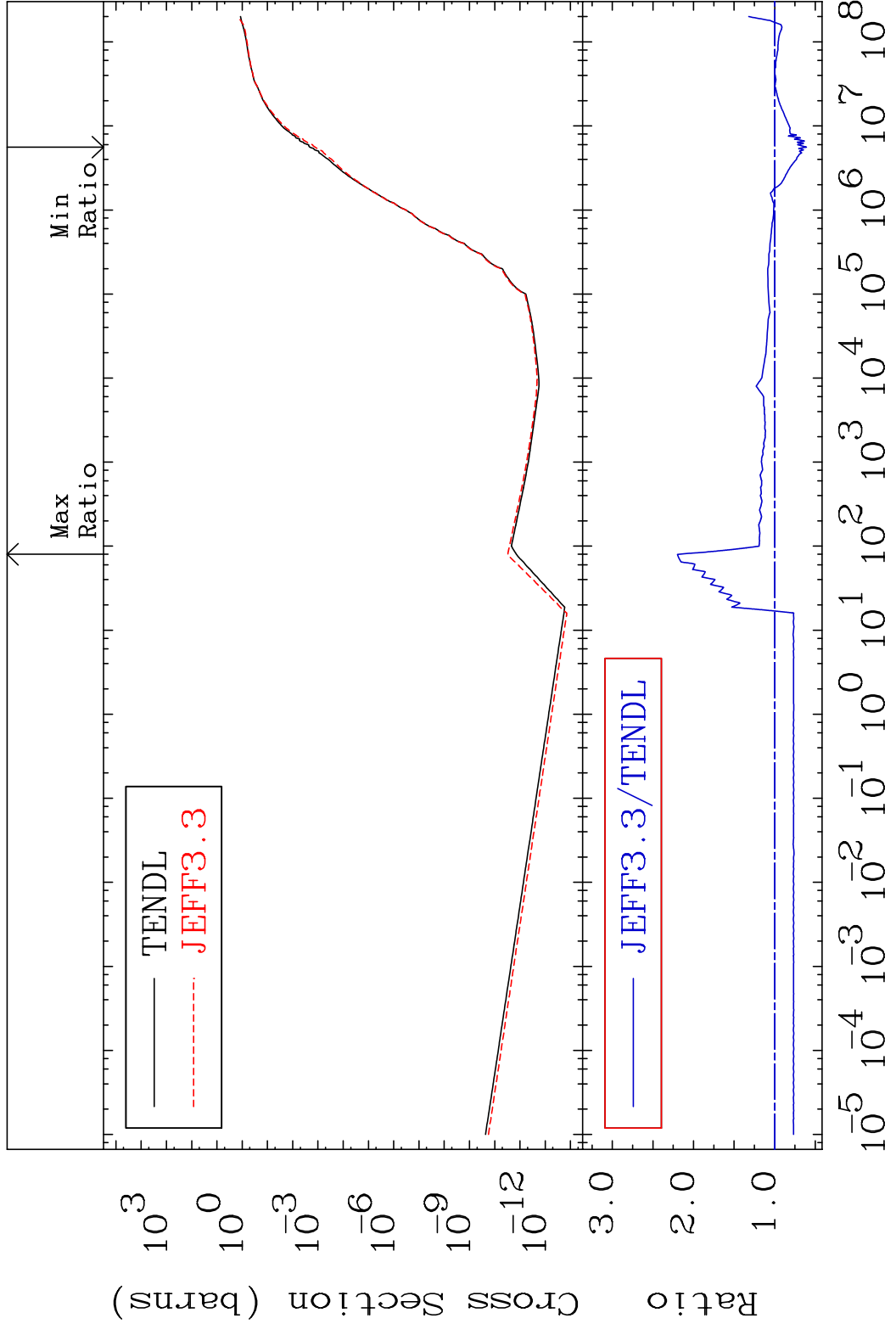
MAT 4125 (n,d) α 41-Nb-93
 Cross Section -100.0 To 2388. %



MAT 4125

Hydrogen Production
Cross Section -39.10 To 120.1 %

41-Nb-93



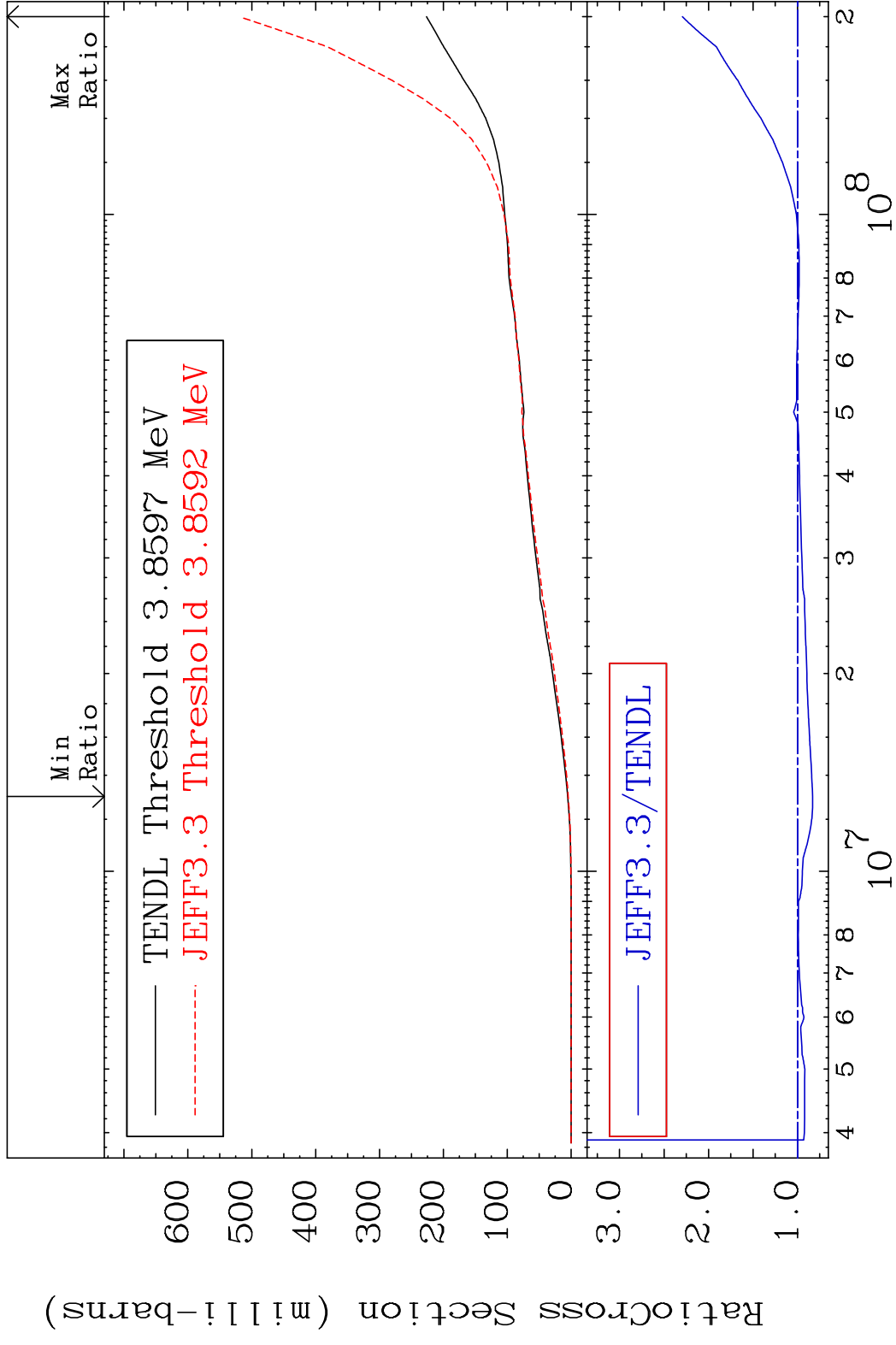
60

Incident Energy (eV)

41-Nb-93

MAT 4125

Deuterium Production 41-Nb-93
Cross Section -16.90 To 129.4 %



61

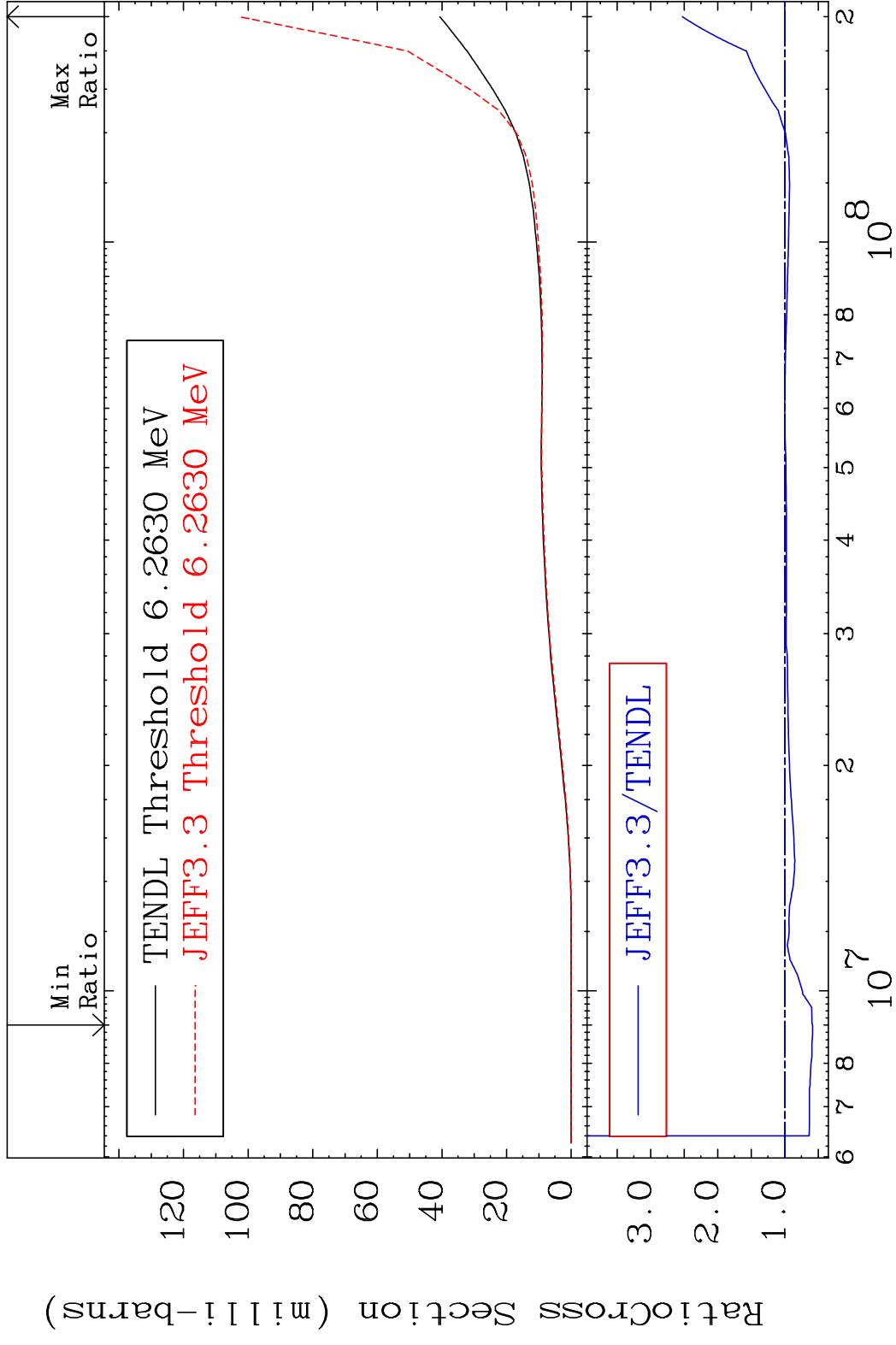
Incident Energy (eV) 41-Nb-93

MAT 4125

Tritium Production

41-Nb-93

Cross Section -41.45 To 152.7 %



62

Incident Energy (eV)

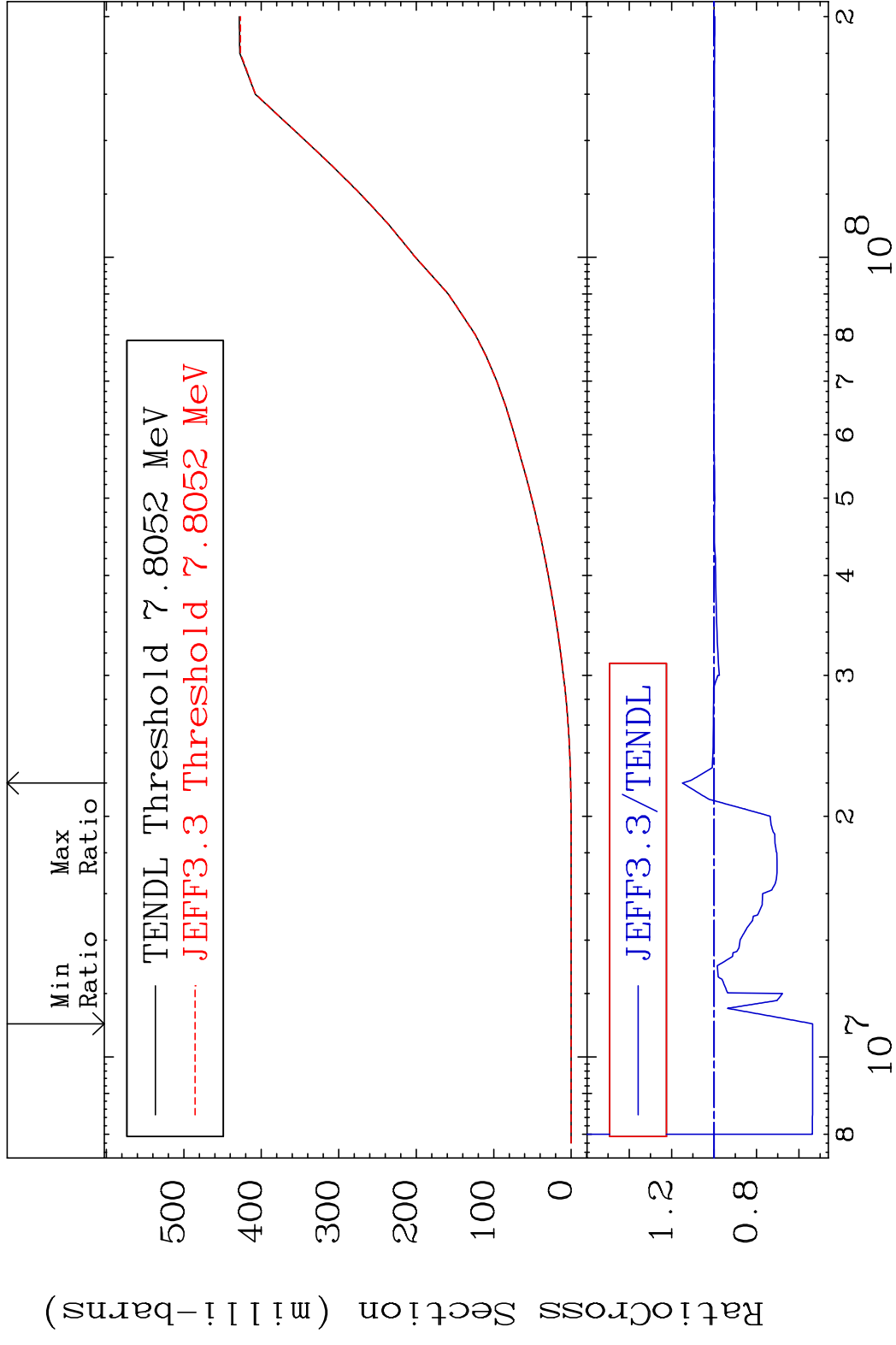
41-Nb-93

MAT 4125

He-3 Production

41-Nb-93

Cross Section -46.42 To 14.98 %



63

Incident Energy (eV)

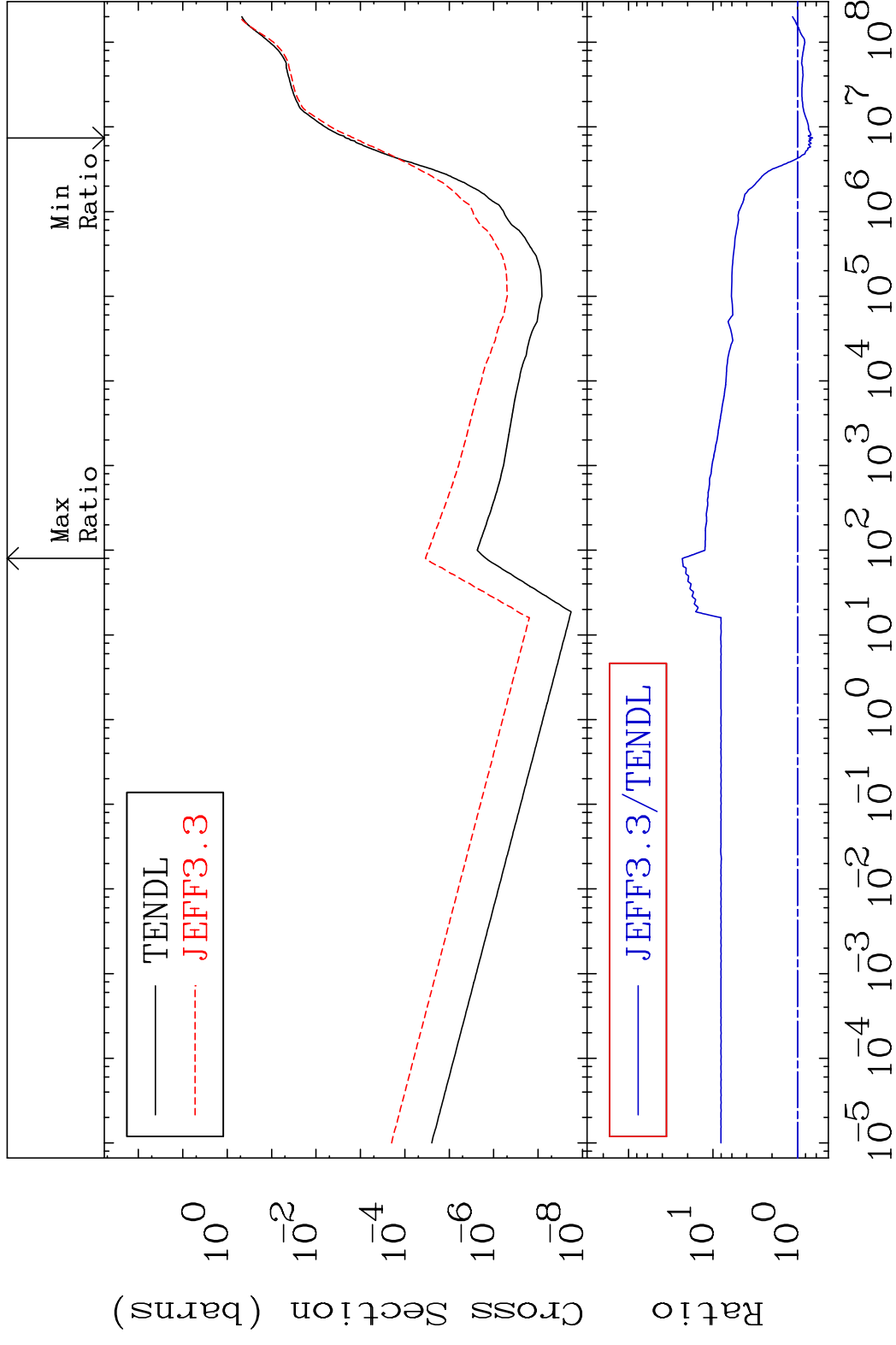
41-Nb-93

MAT 4125

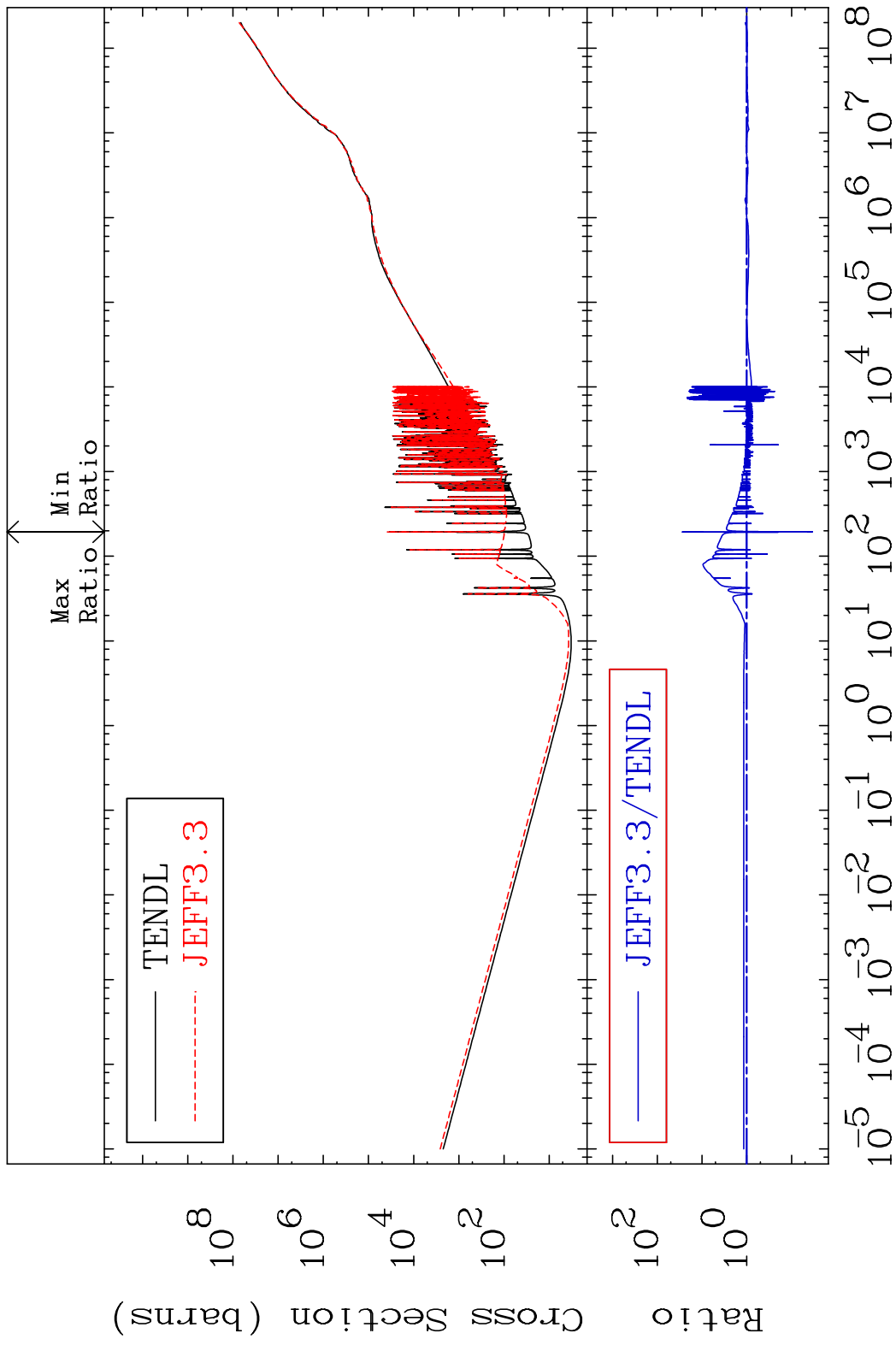
He-4 Production

41-Nb-93

Cross Section -33.75 To 2209. %



MAT 4125 Kerma total (eV-barns) 41-Nb-93
 Cross Section -96.60 To 2654. %

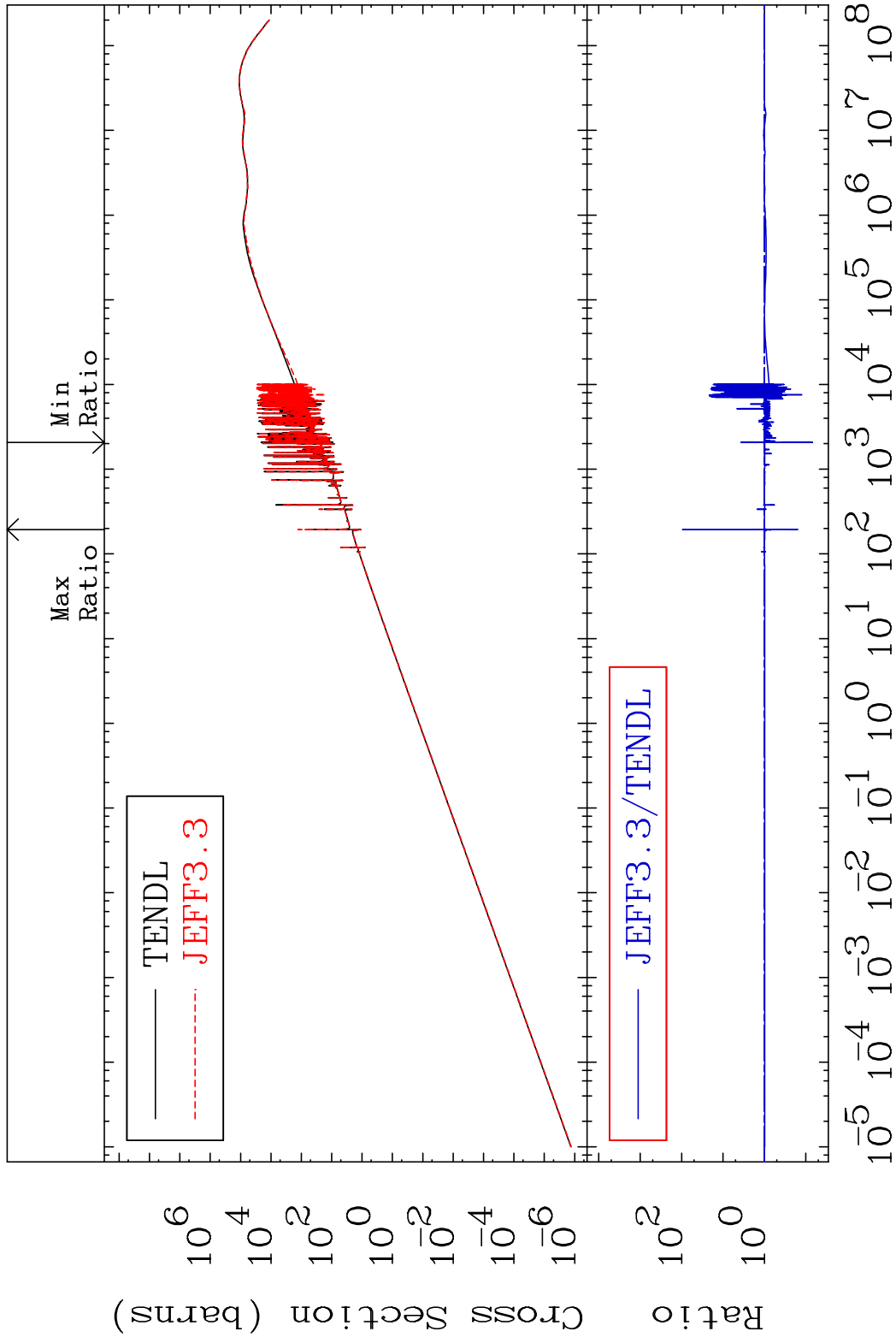


65 Incident Energy (eV) 41-Nb-93

MAT 4125

Kerma elastic Cross Section -93.11 To 9488. %

41-Nb-93

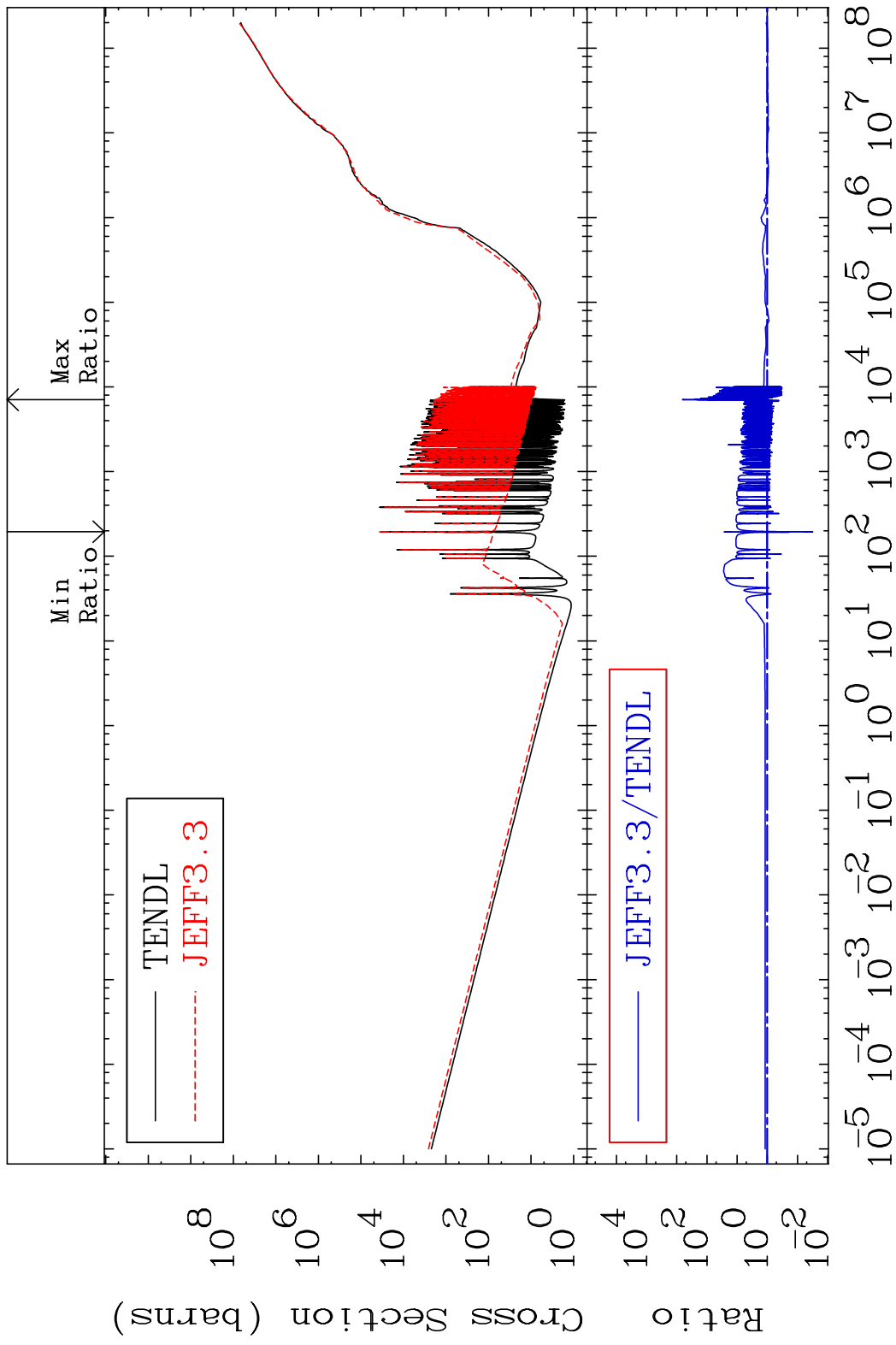


66

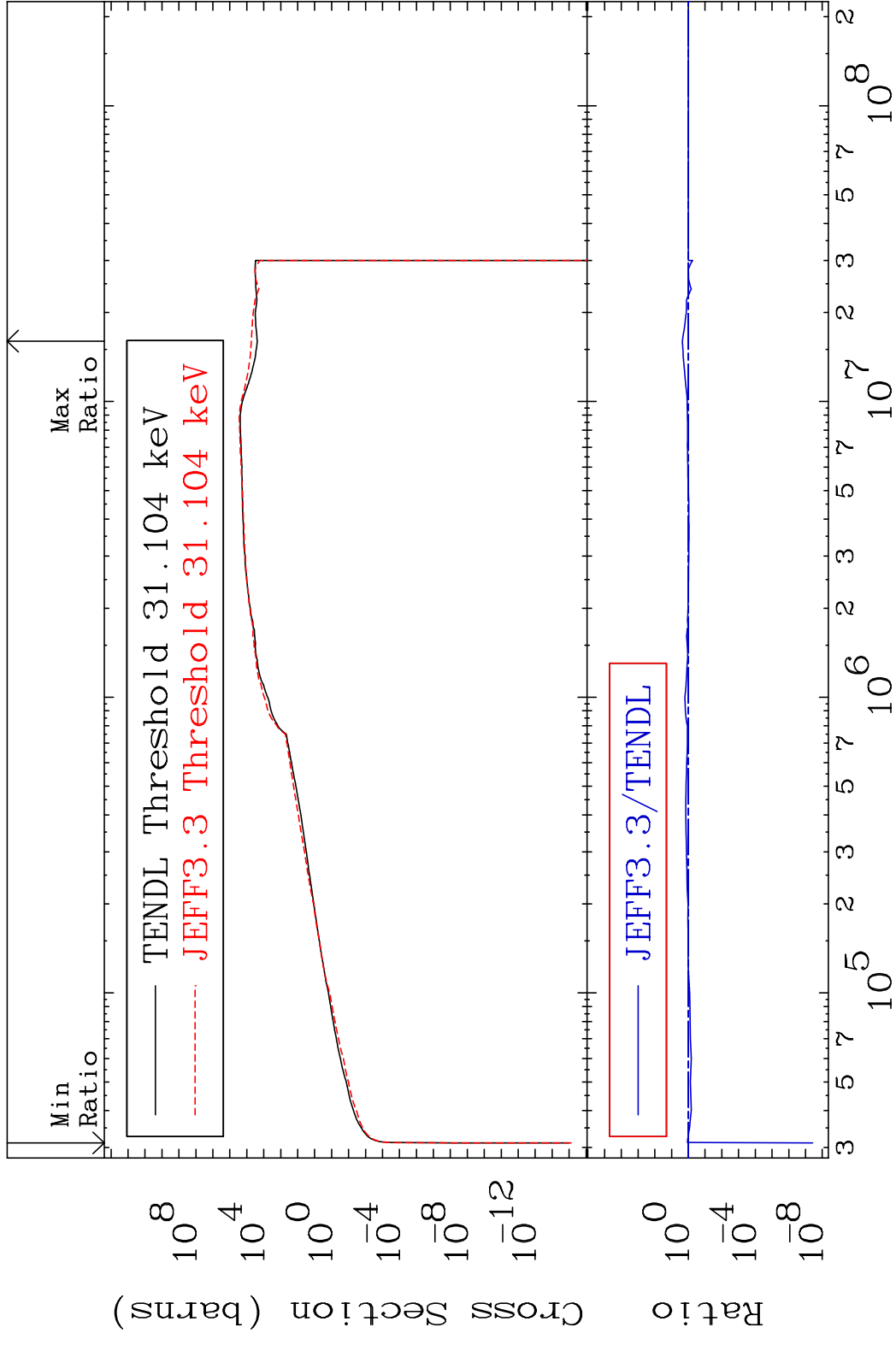
Incident Energy (eV)

41-Nb-93

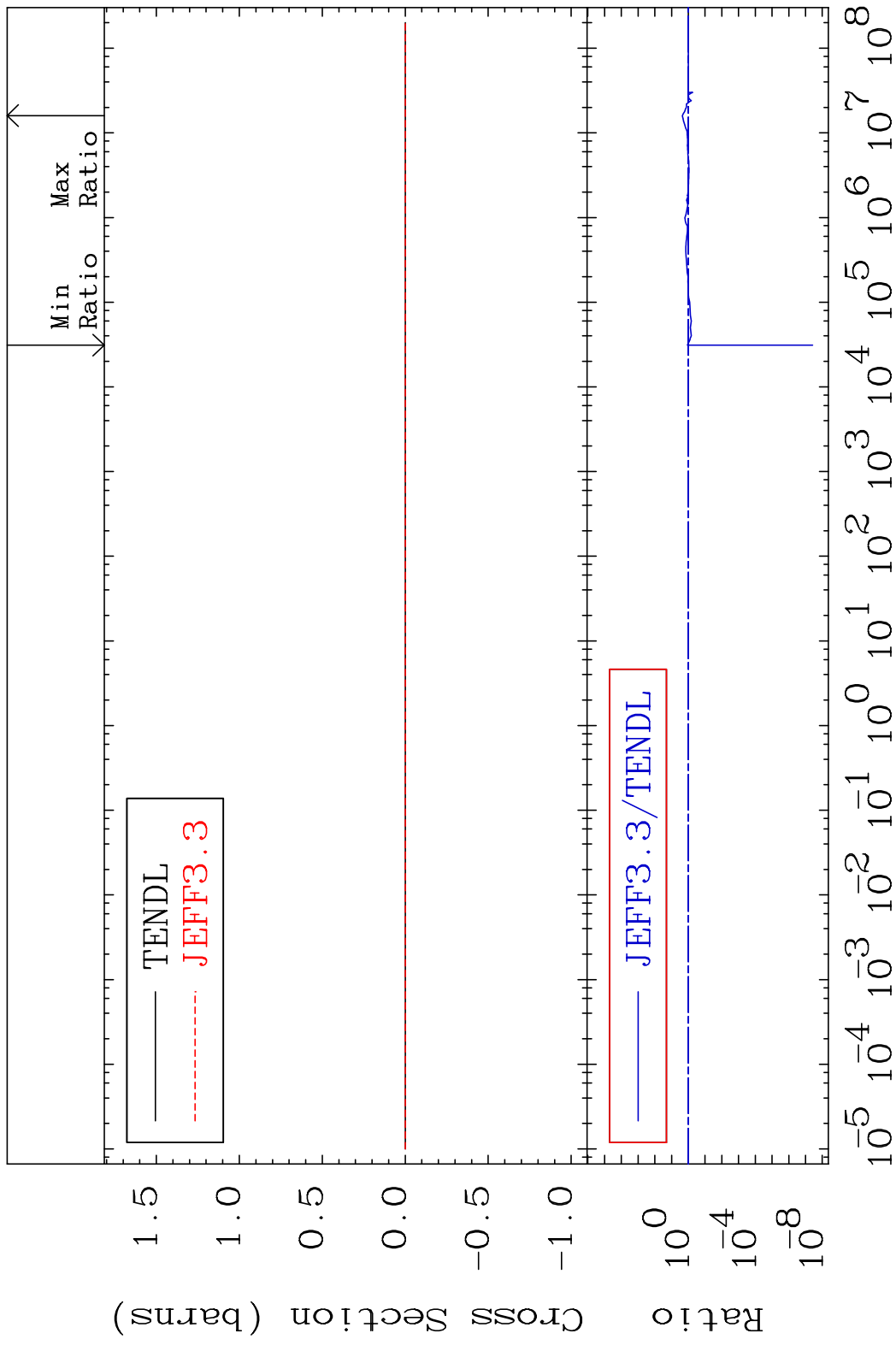
MAT 4125 Kerma non-elastic (all but mt2) 41-Nb-93
 Cross Section -96.83 To 9999. %



MAT 4125 Kerma inelastic (mt51-91) 41-Nb-93
 Cross Section -100.0 To 126.9 %

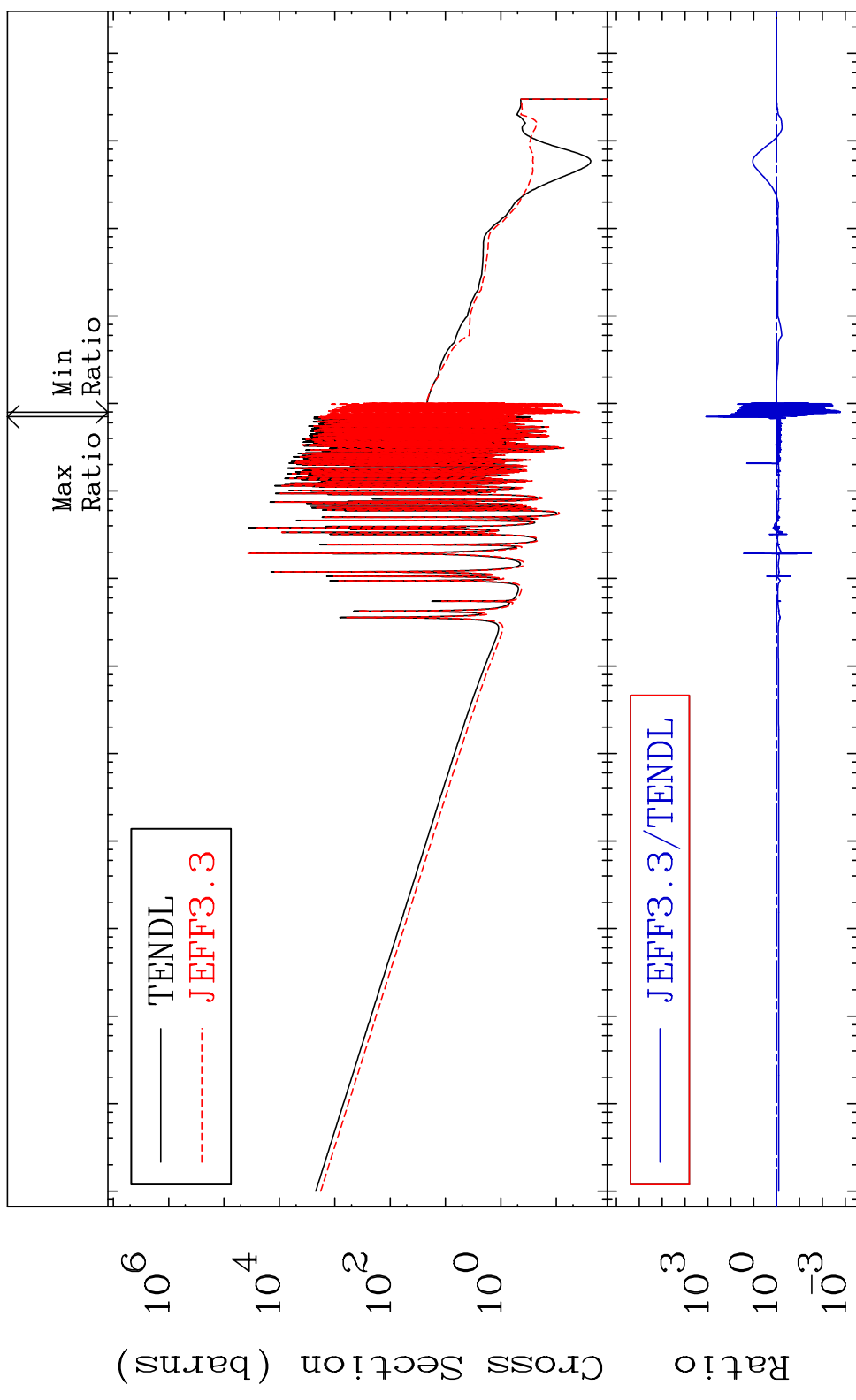


MAT 4125 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-93
 Cross Section -100.0 To 126.9 %



MAT 4125

Kerma capture (mt102) 41-Nb-93
Cross Section -99.84 To 9999. %

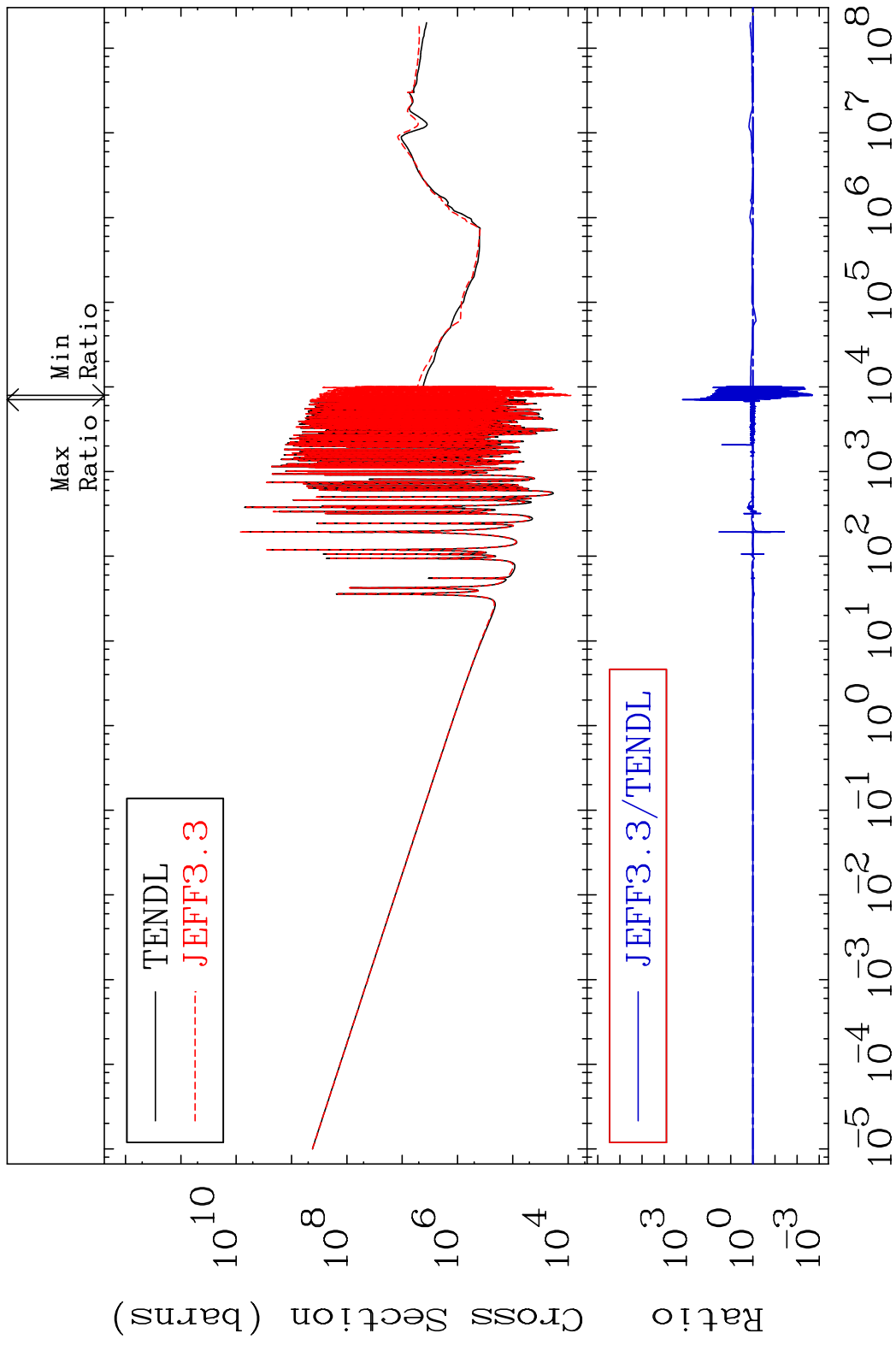


70

Incident Energy (eV)

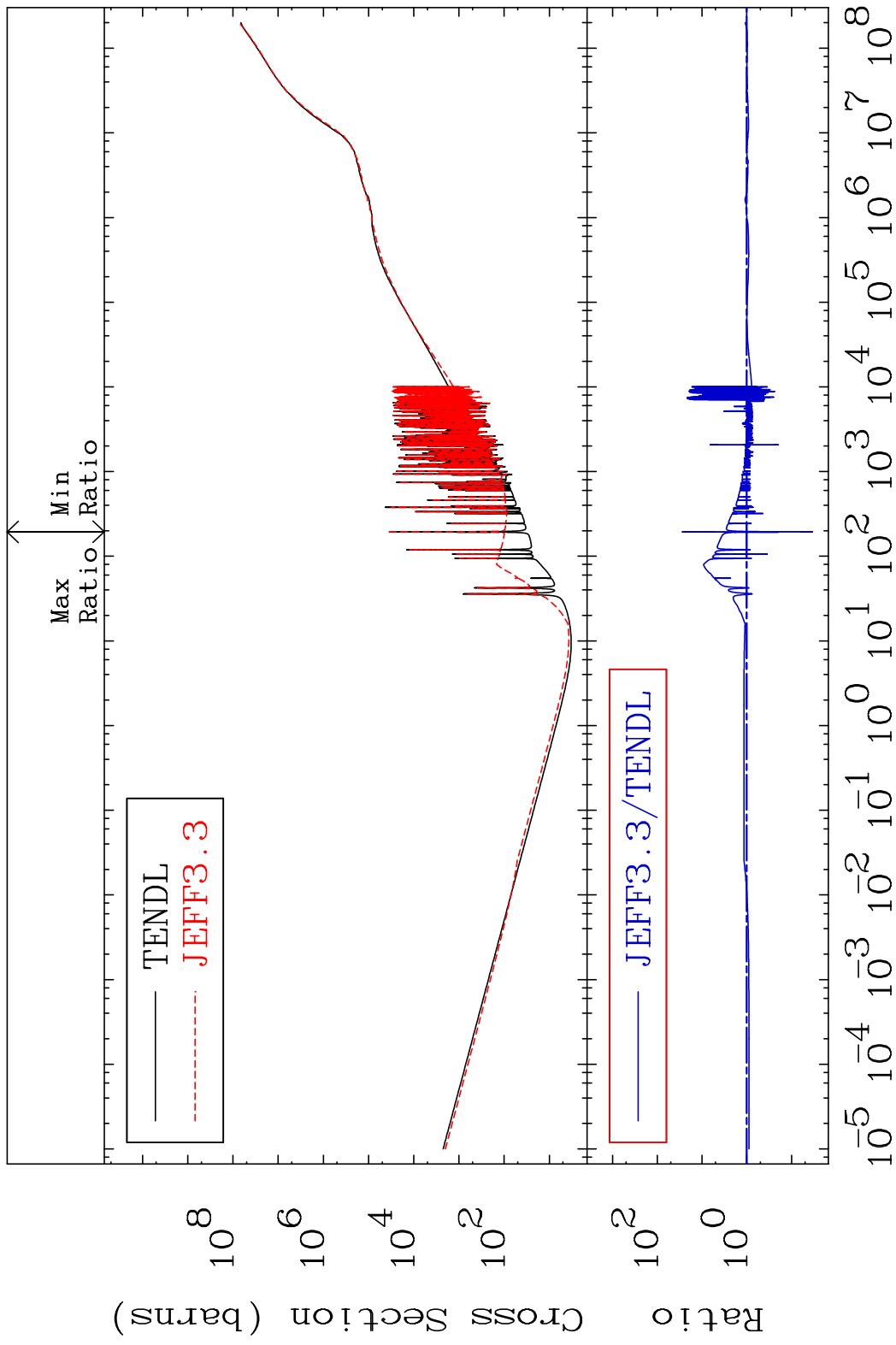
41-Nb-93

MAT 4125 Total photon (eV-barns) 41-Nb-93
Cross Section -99.80 To 9999. %



71 Incident Energy (eV) 41-Nb-93

MAT 4125 Total kinematic kerma (high limit) 41-Nb-93
 Cross Section -96.60 To 2654. %

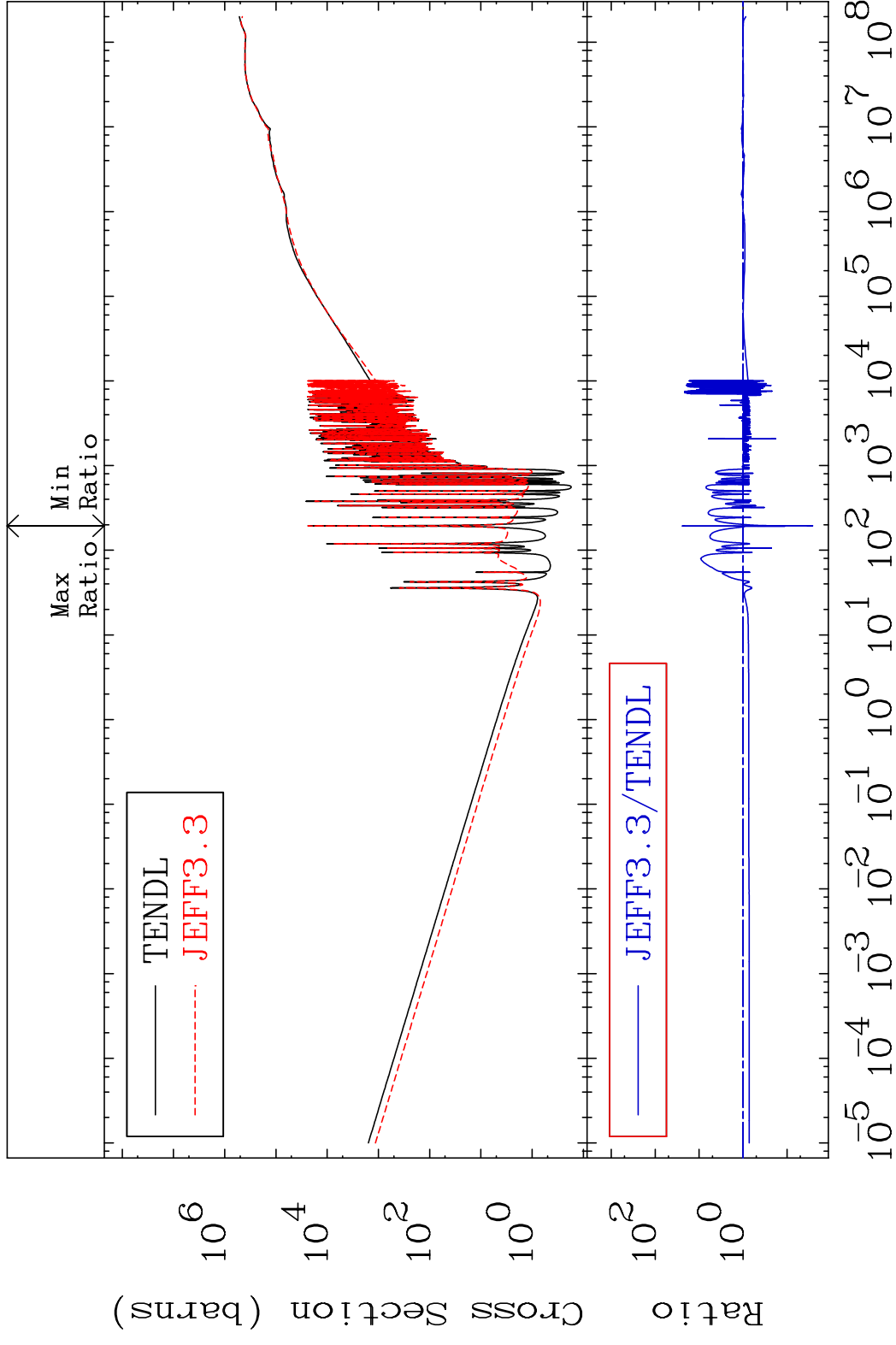


MAT 4125

Dpa total (eV-barns)

41-Nb-93

Cross Section -97.36 To 2308. %



73

Incident Energy (eV)

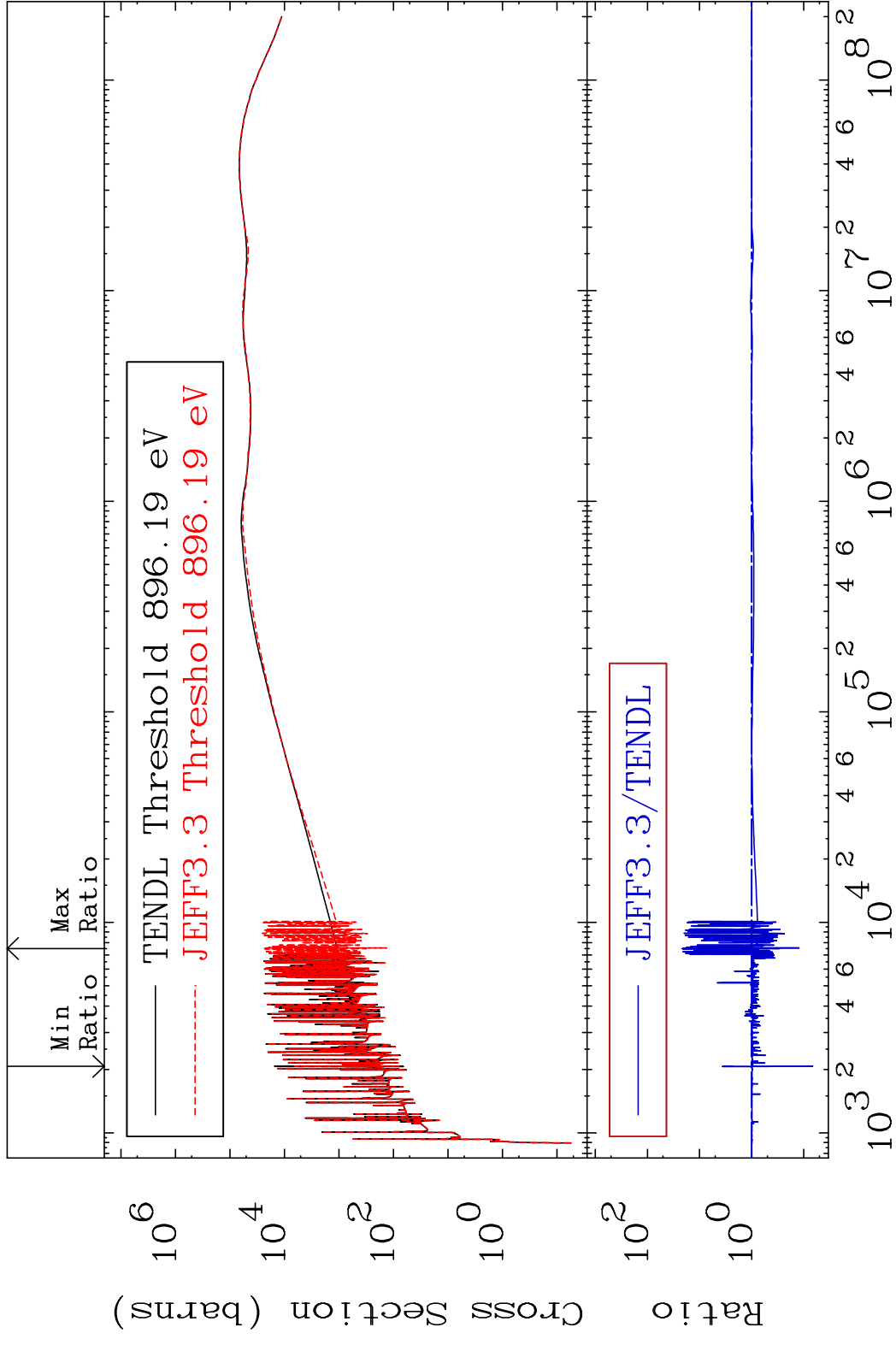
41-Nb-93

MAT 4125

Dpa elastic (mt2)

41-Nb-93

Cross Section -93.22 To 2036. %

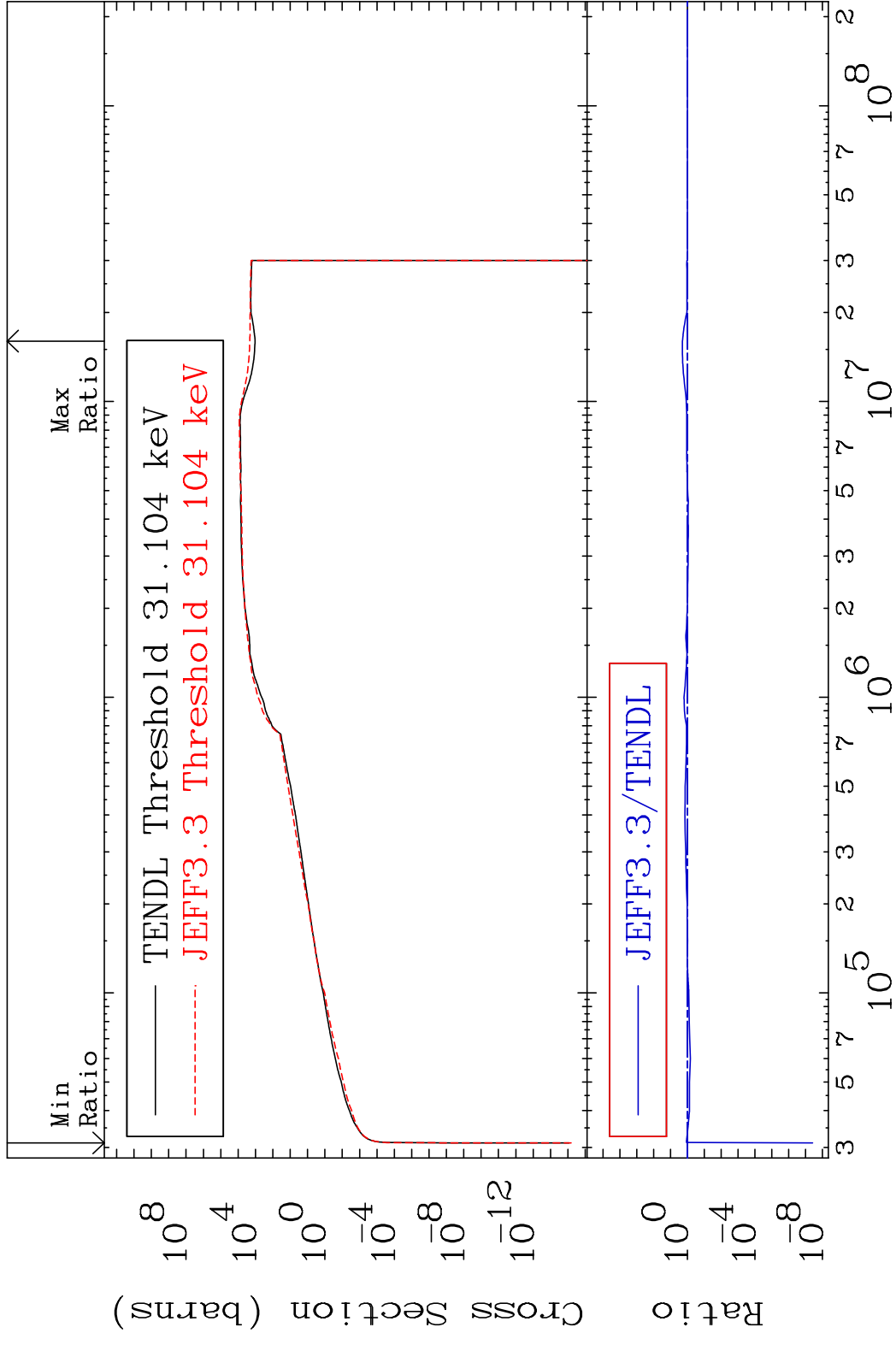


74

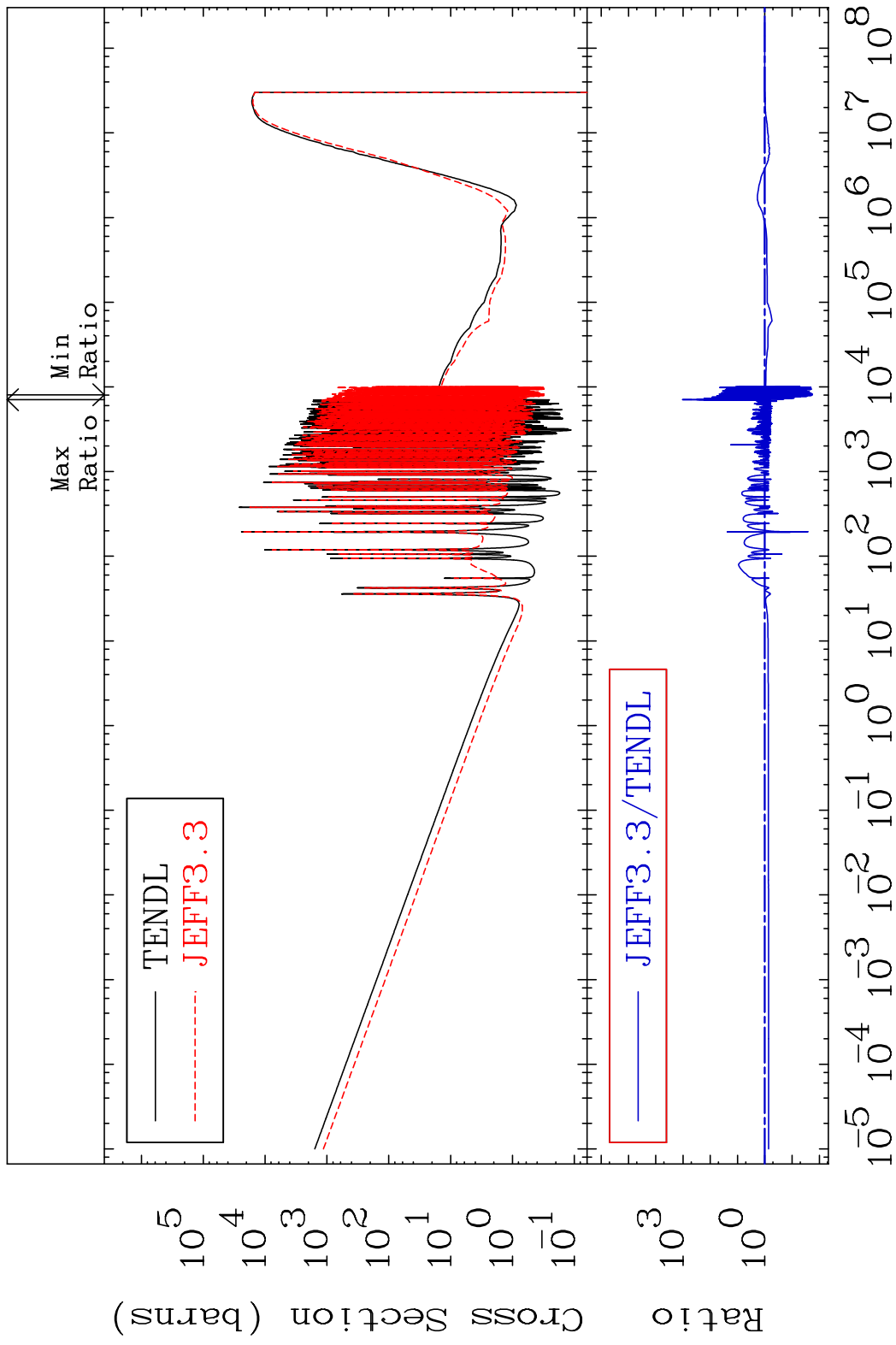
Incident Energy (eV)

41-Nb-93

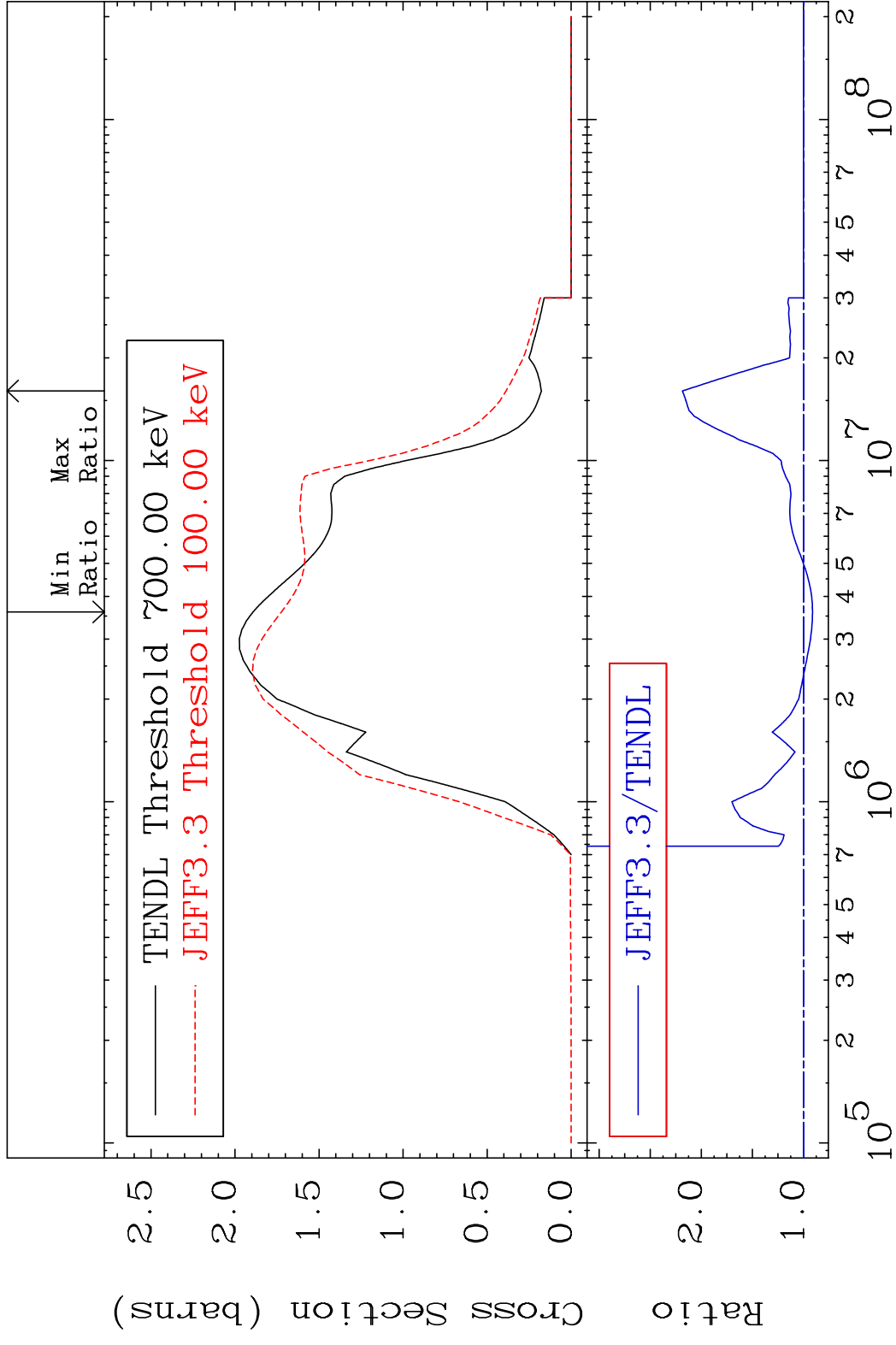
MAT 4125 Dpa inelastic (mt51-91) 41-Nb-93
 Cross Section -100.0 To 101.7 %

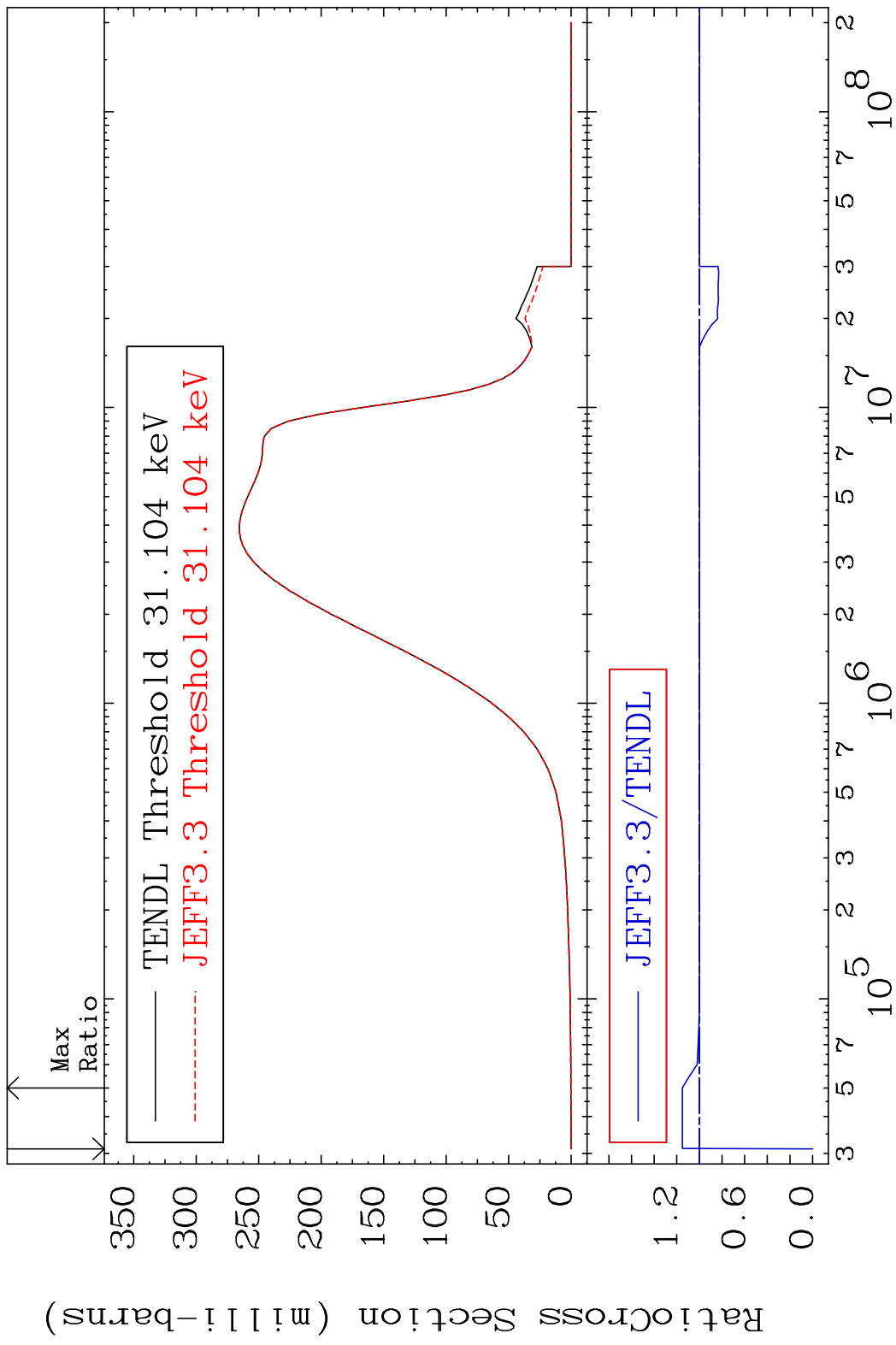


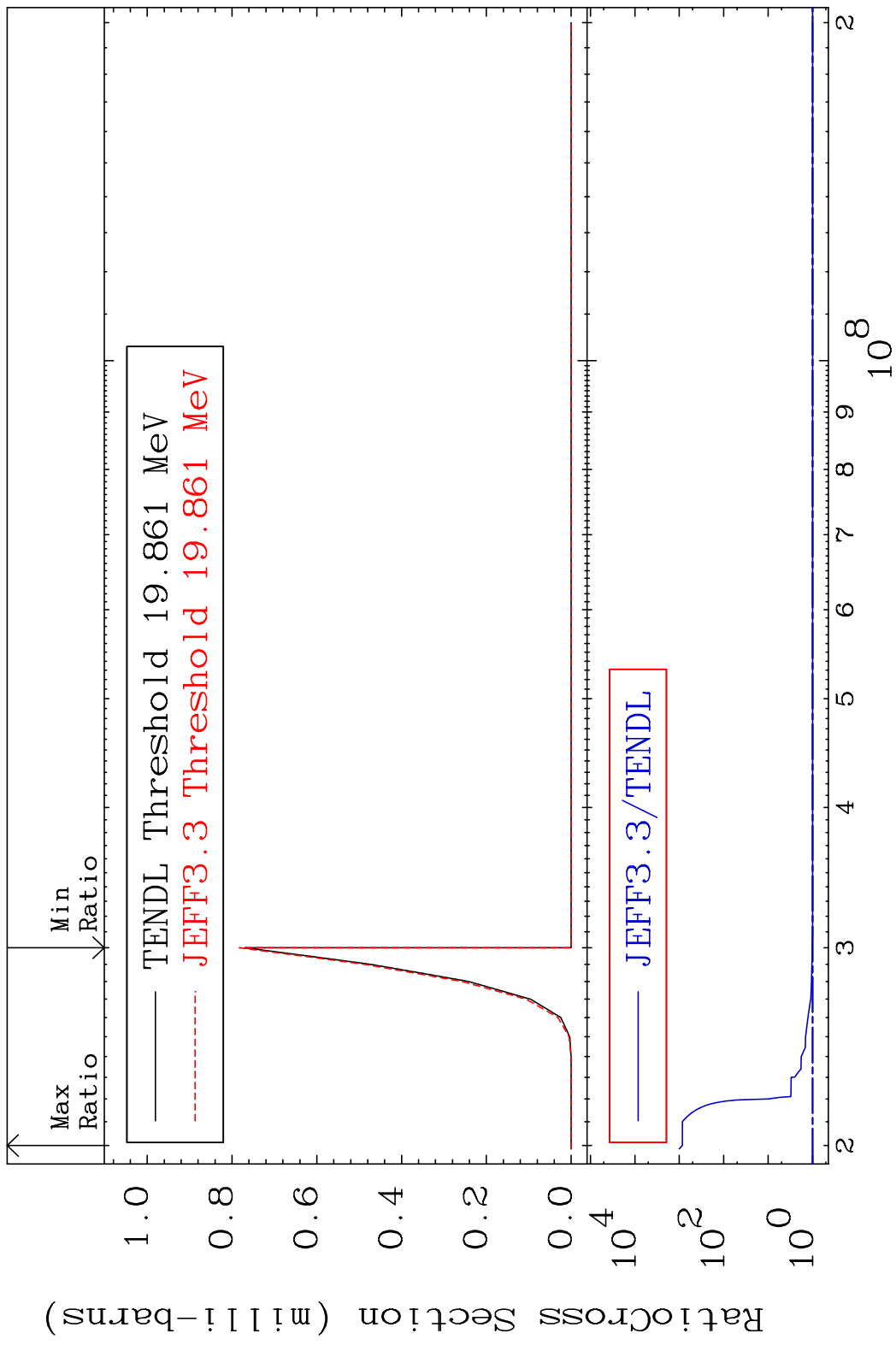
MAT 4125 Dpa disappearance (mt102 -120) 41-Nb-93
 Cross Section -98.23 To 9999. %



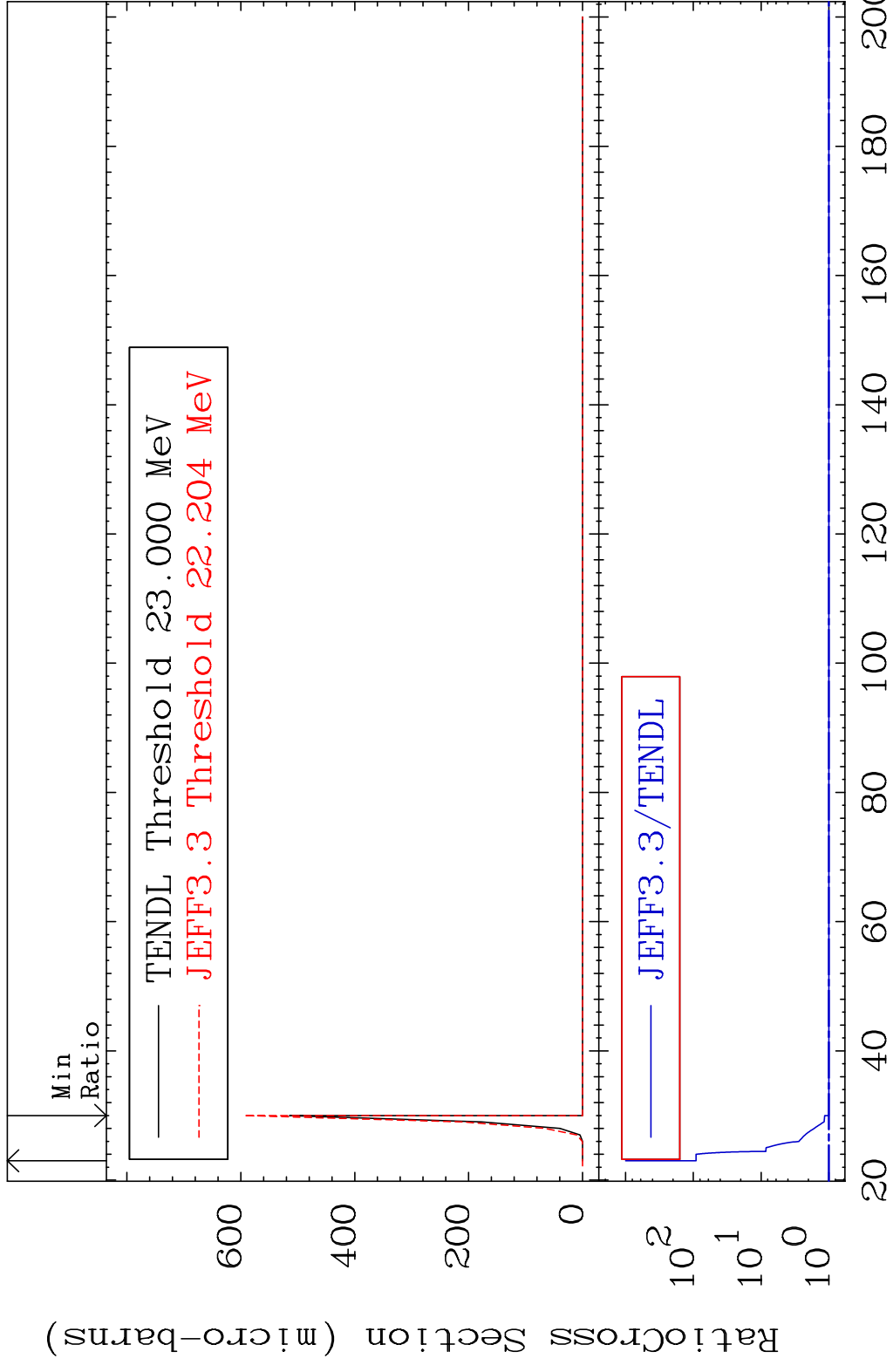
76 Incident Energy (eV) 41-Nb-93





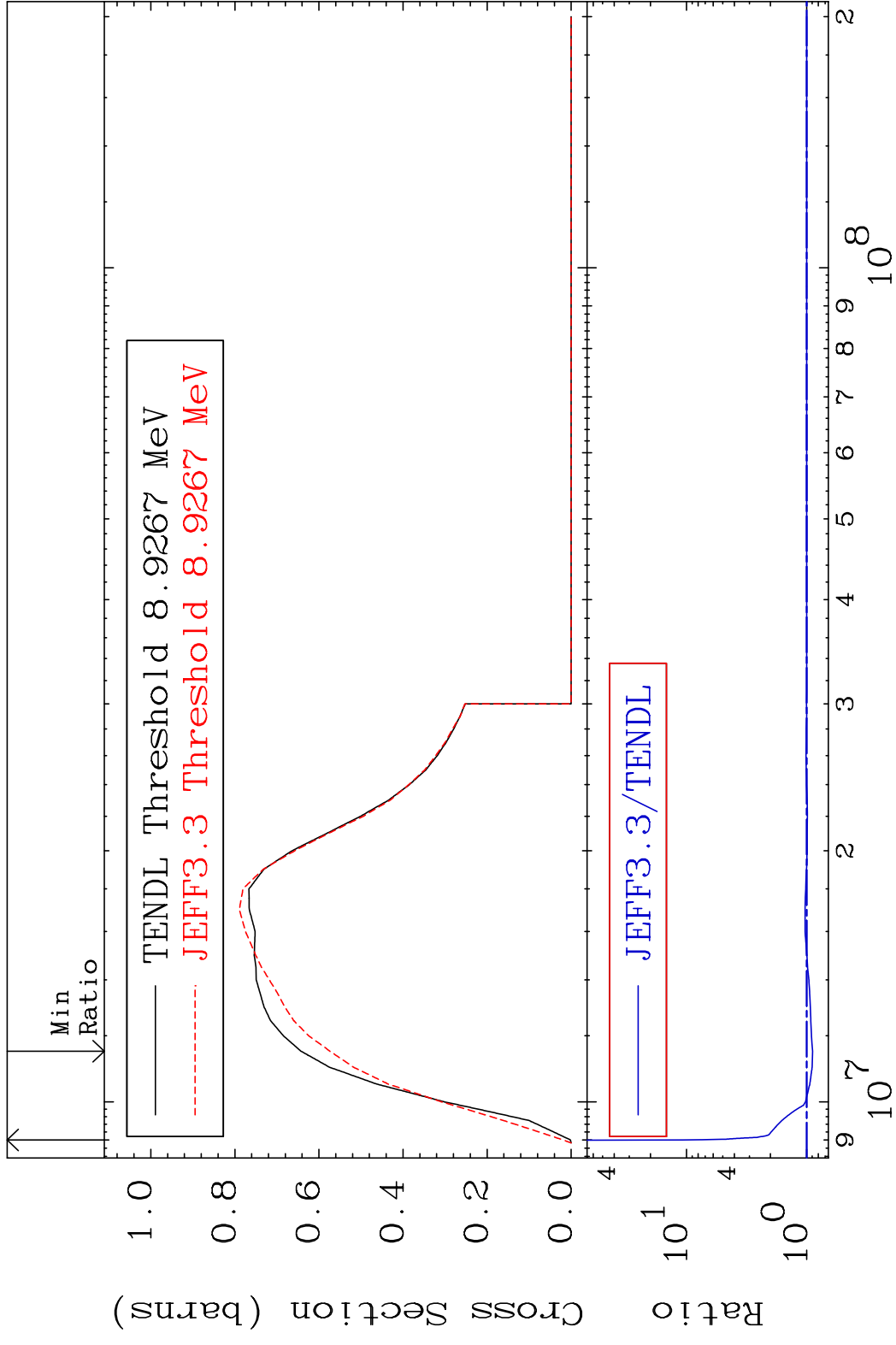


MAT 4125 (n,2n) d:40-Zr-90m3 41-Nb-93
 Radionuclide Production Cross Section 9041. %

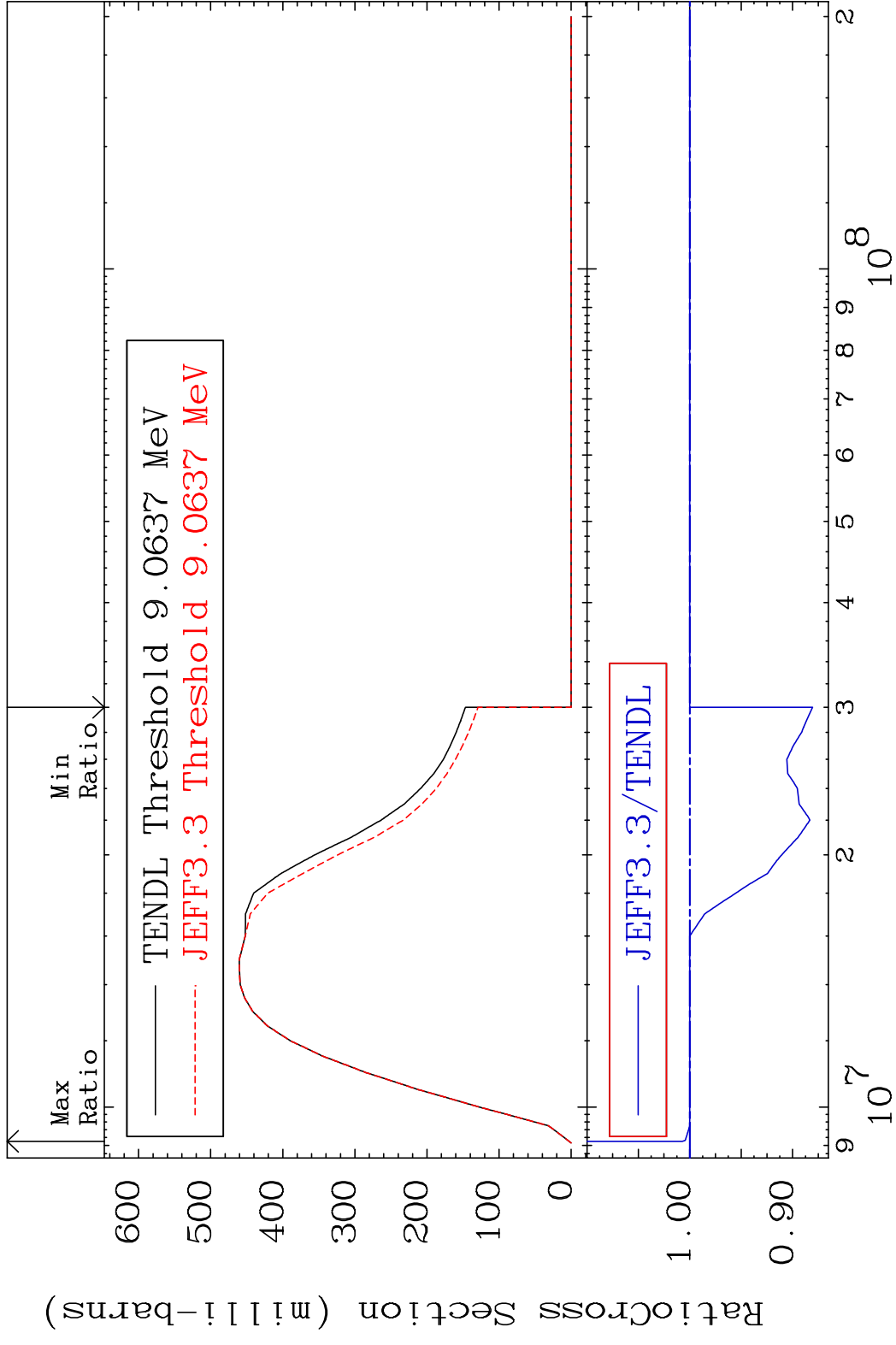


80 Incident Energy (MeV) 41-Nb-93

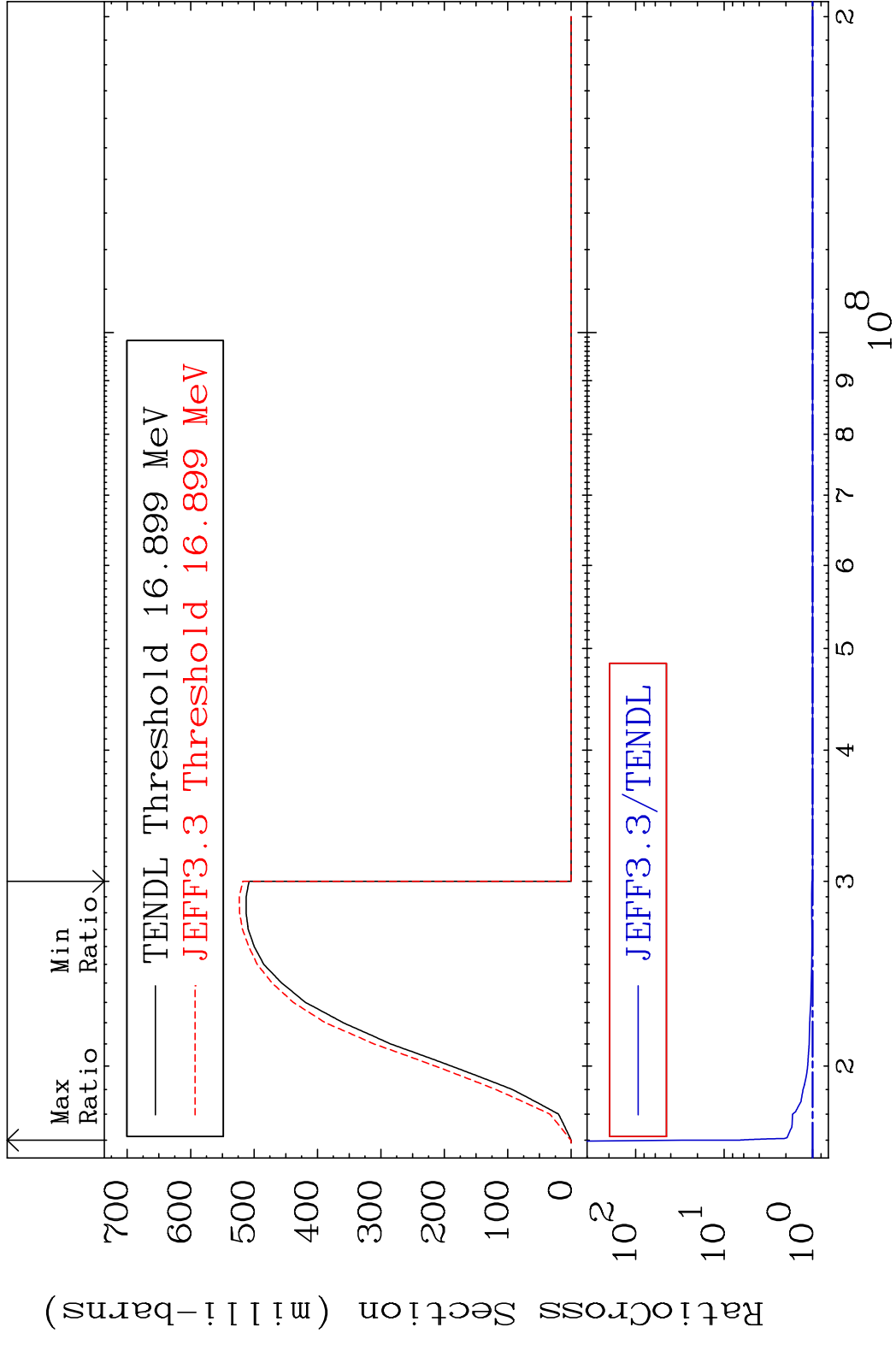
MAT 4125 (n,2n):41-Nb-92g 41-Nb-93
 Radionuclide Production Cross Section 984.7 %

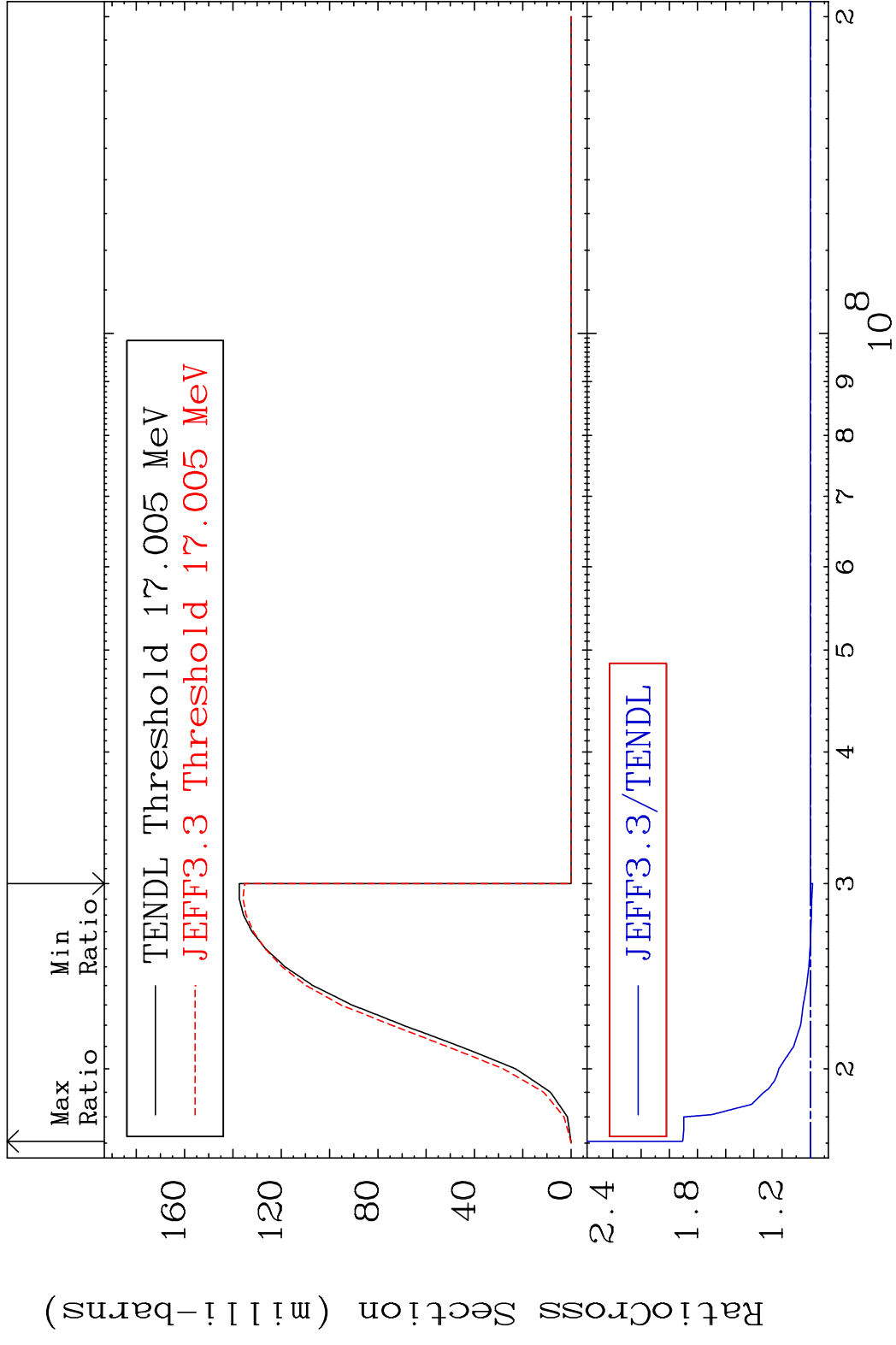


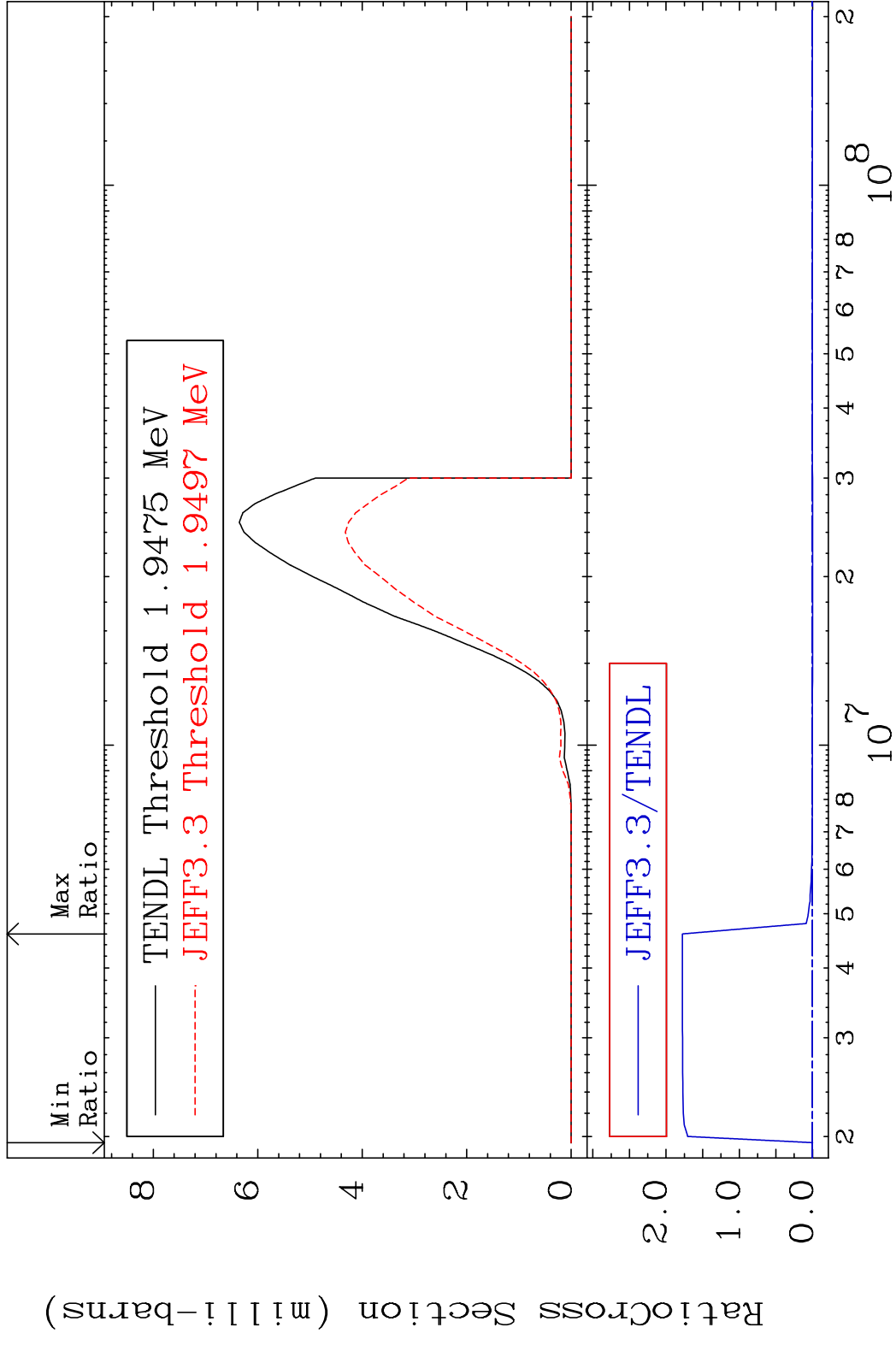
MAT 4125 (n,2n):41-Nb-92m1 41-Nb-93
 Radionuclide Production Cross Section 0.718 %

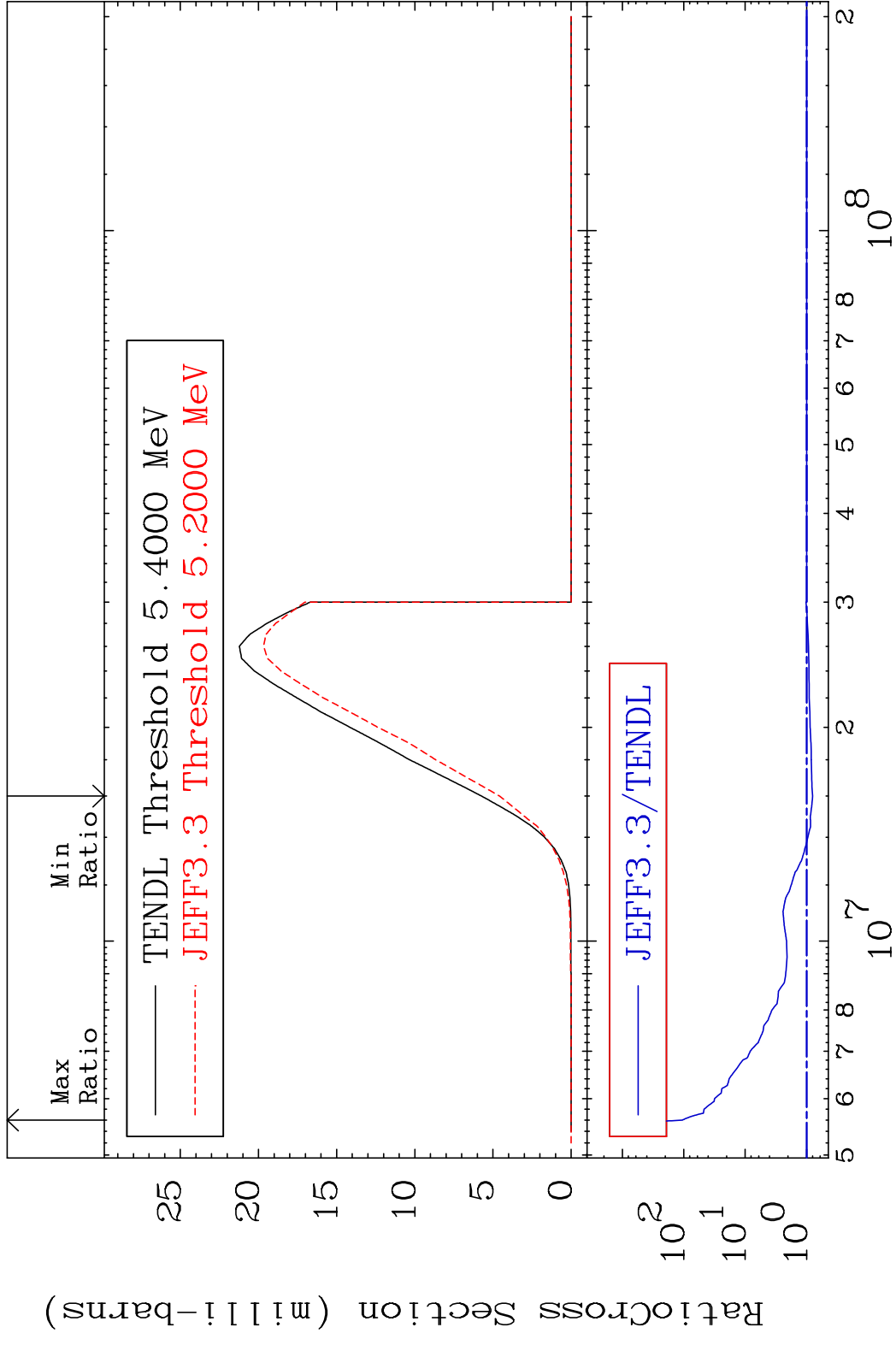


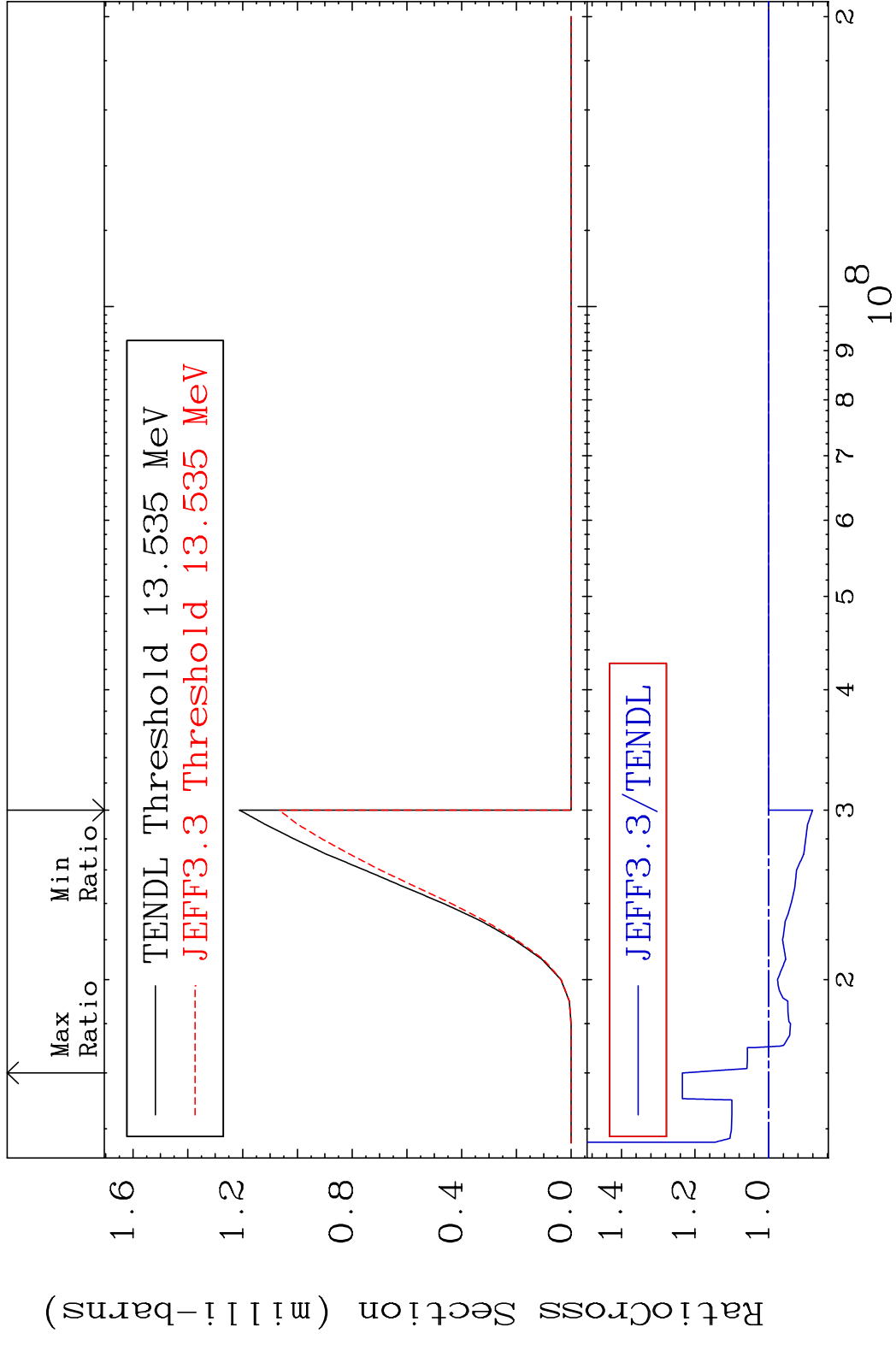
82 Incident Energy (eV) 41-Nb-93

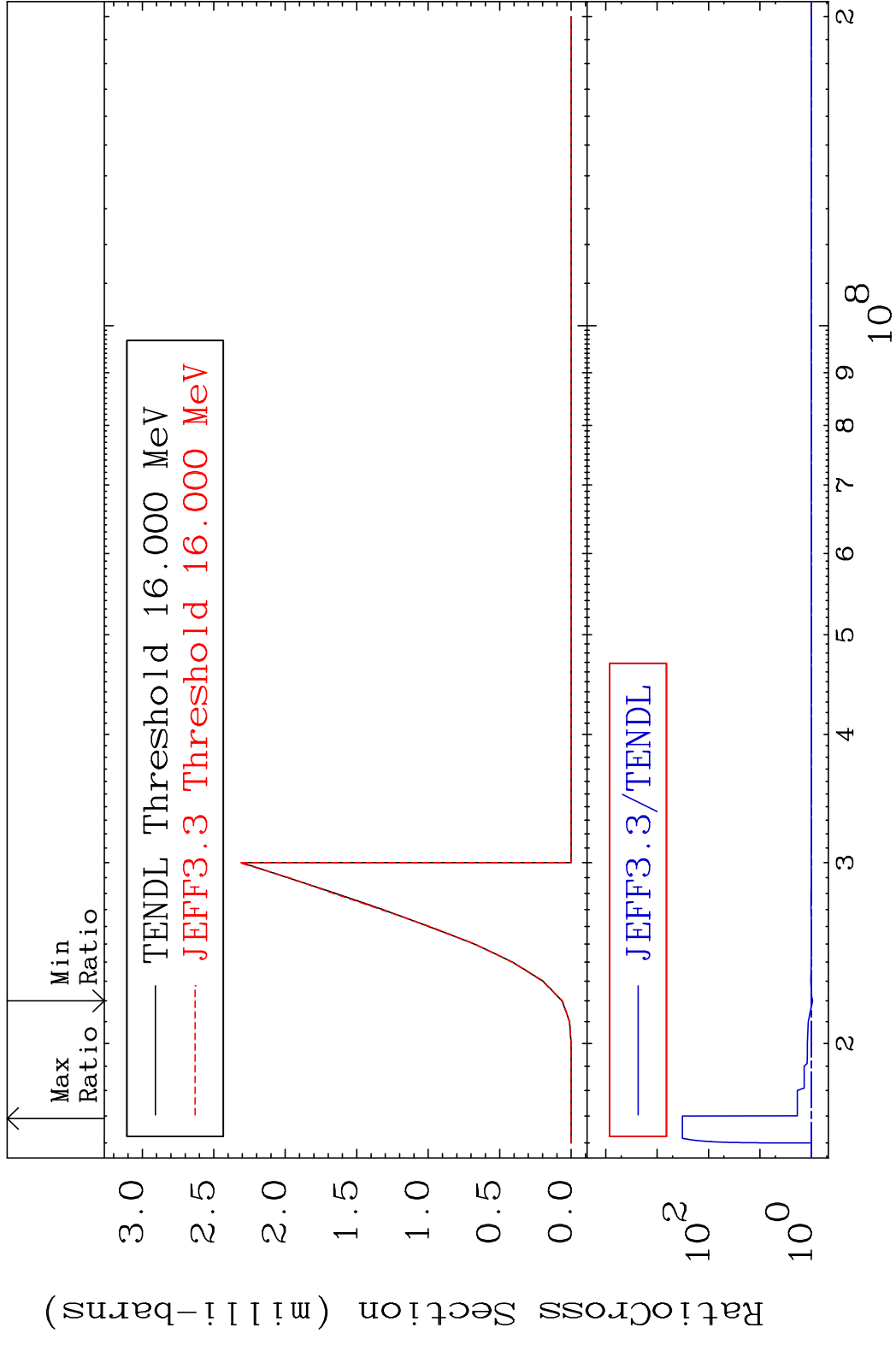


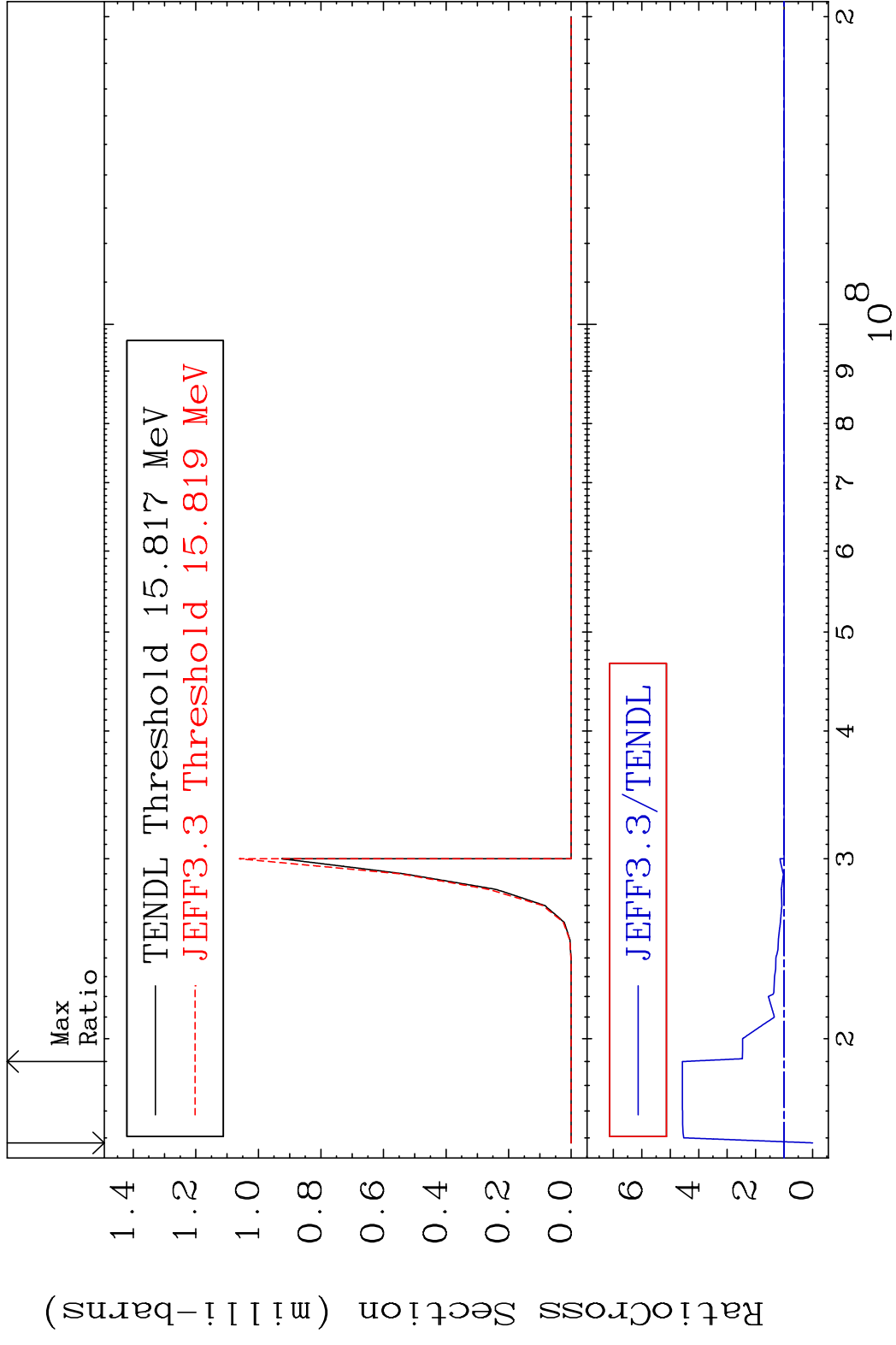


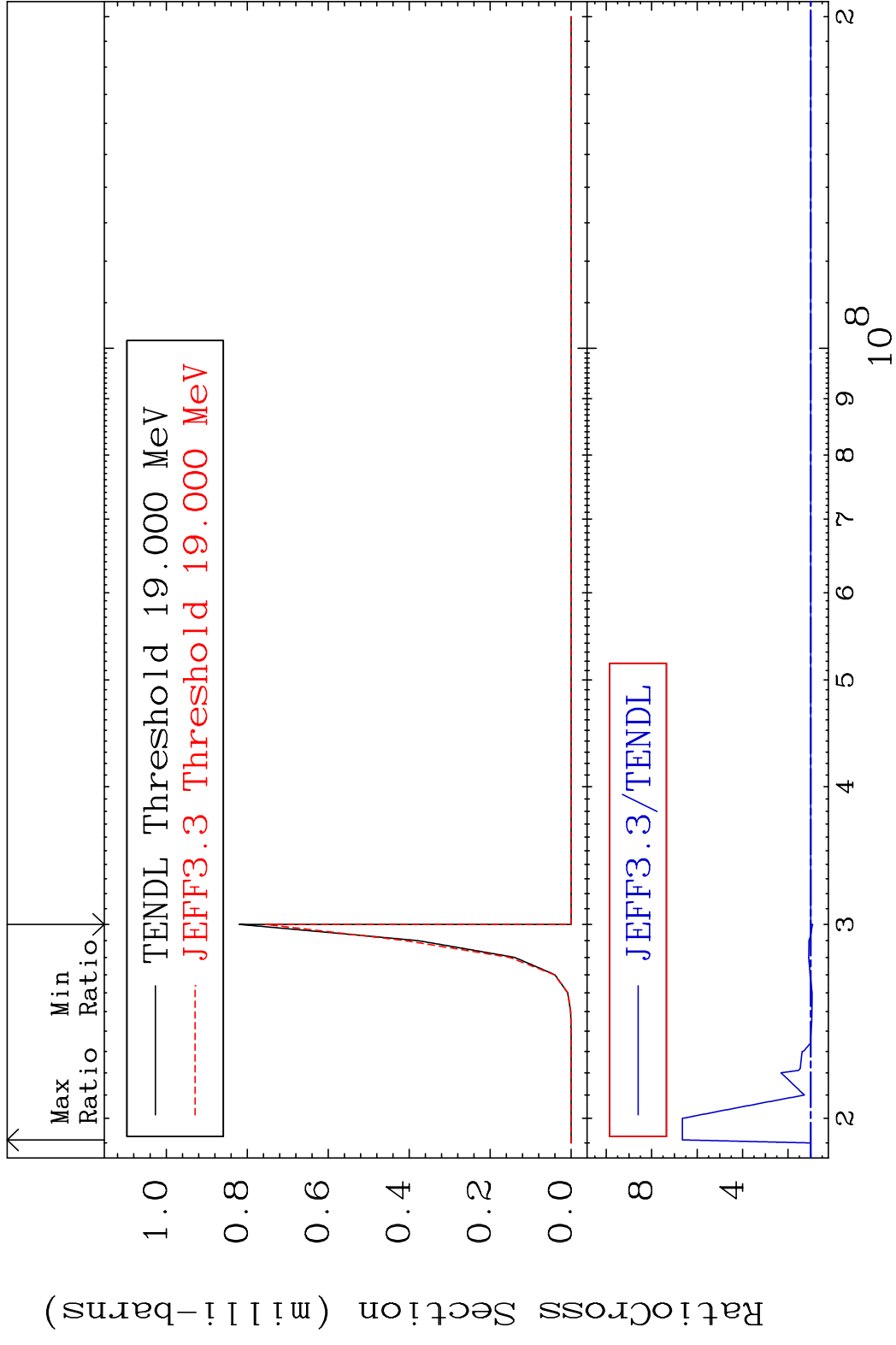


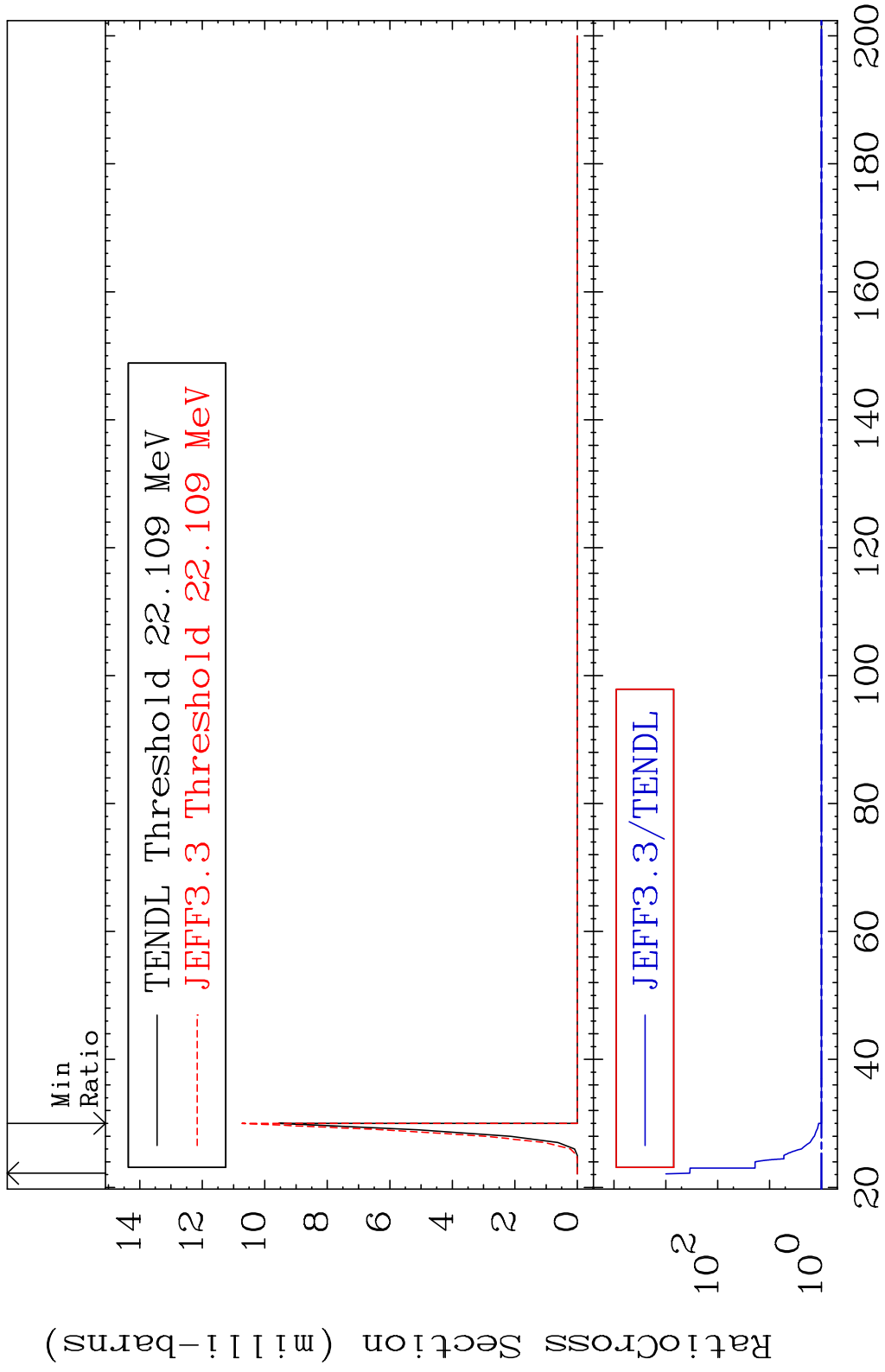


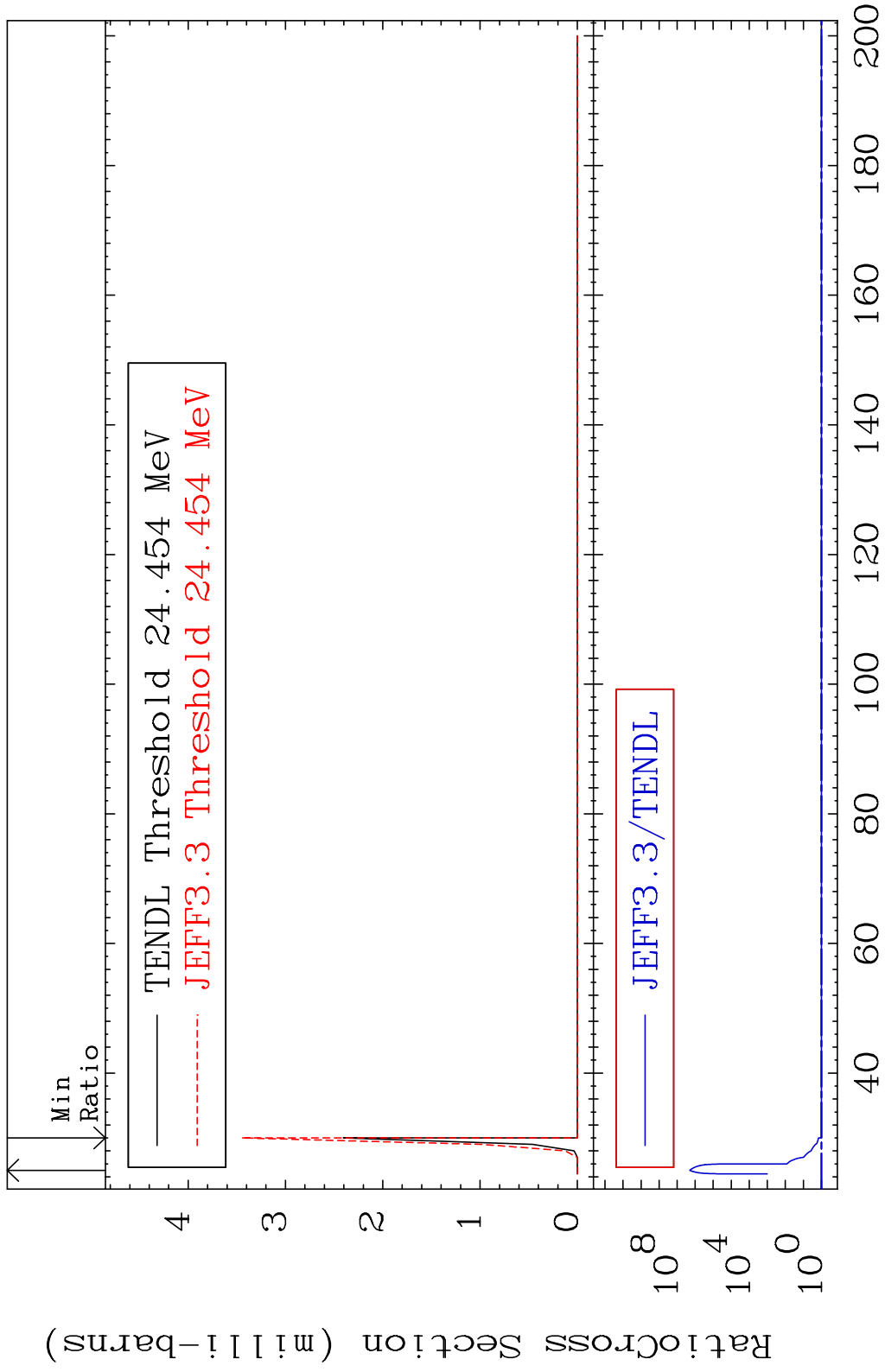




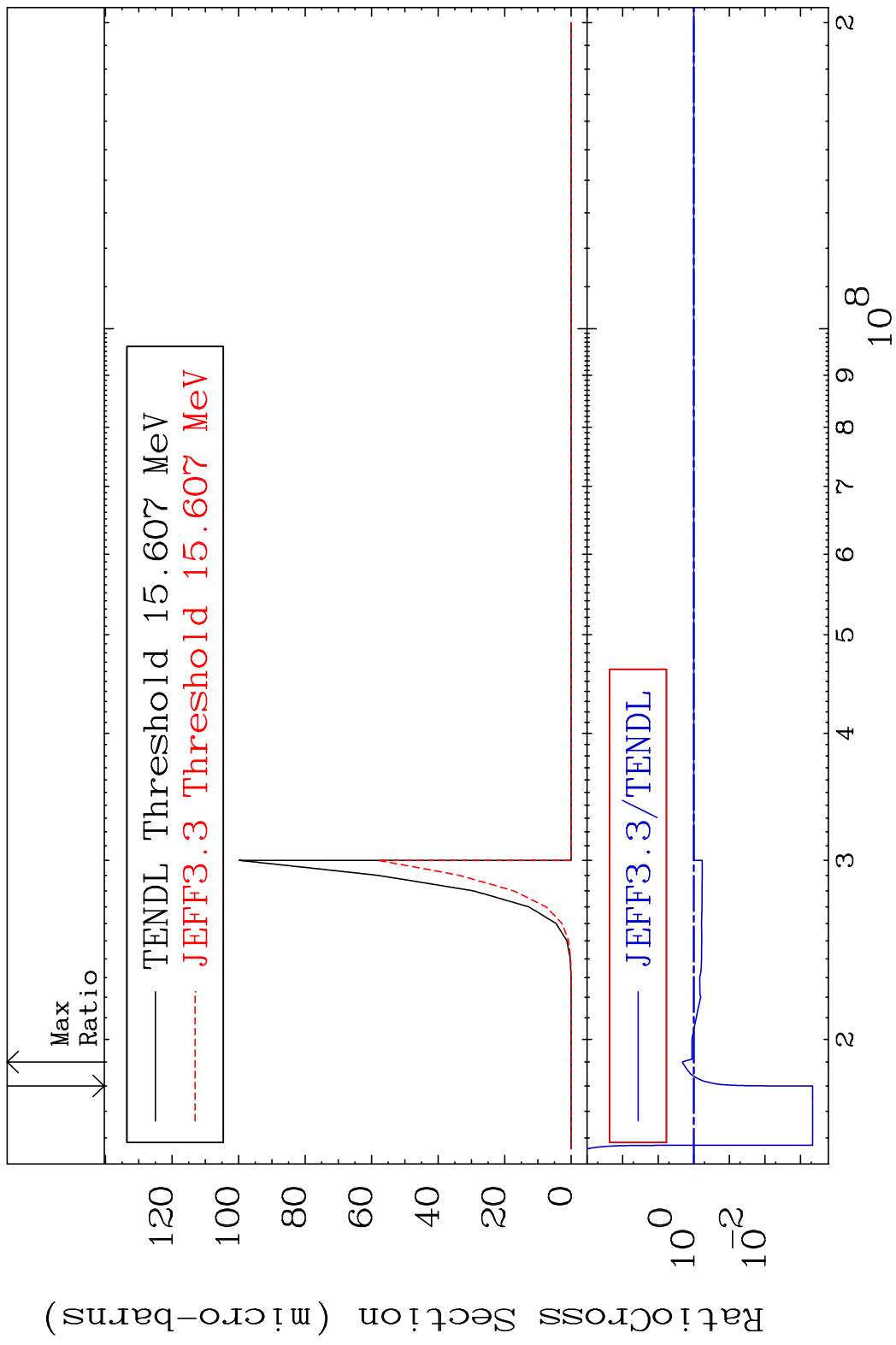




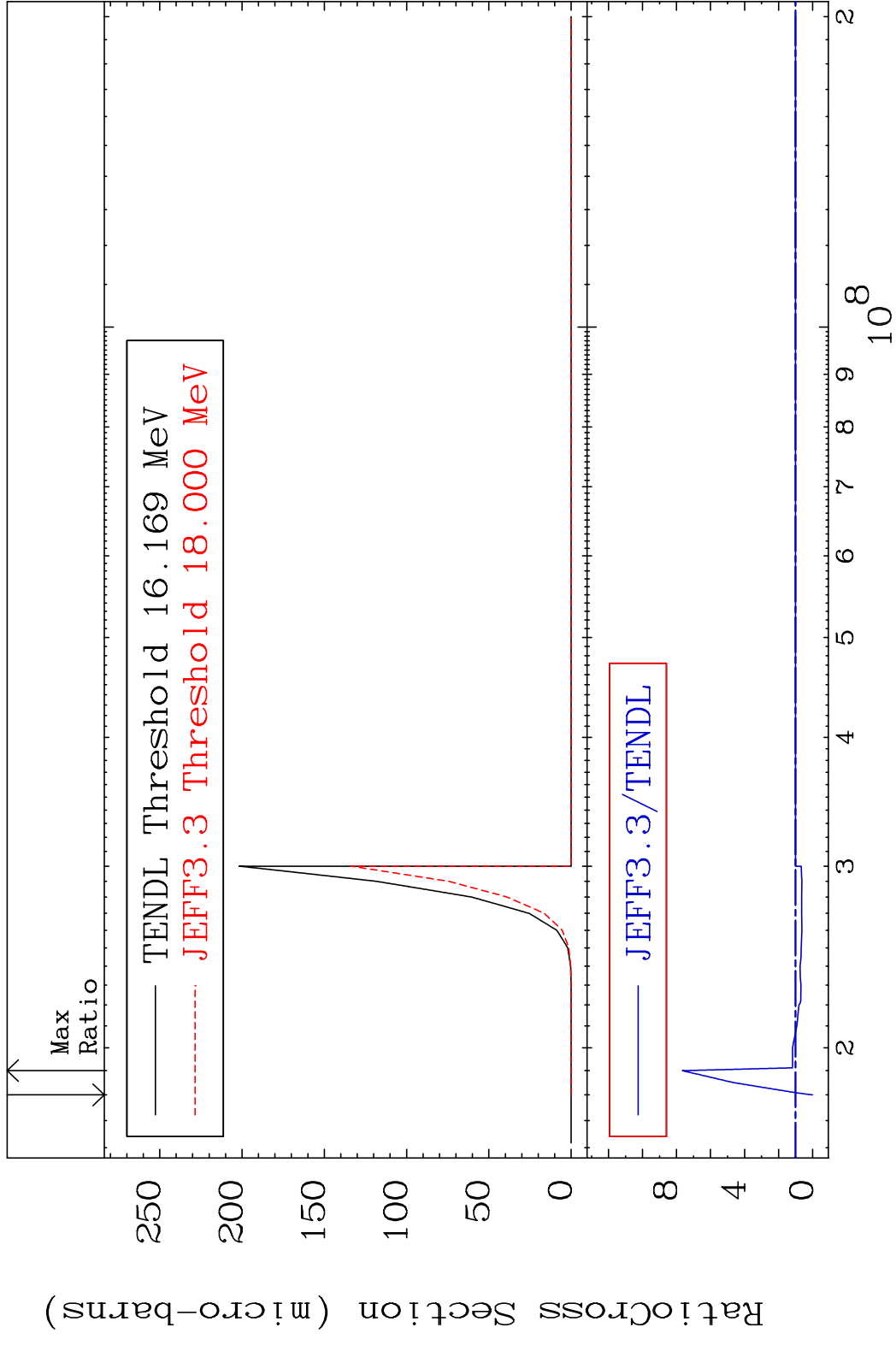




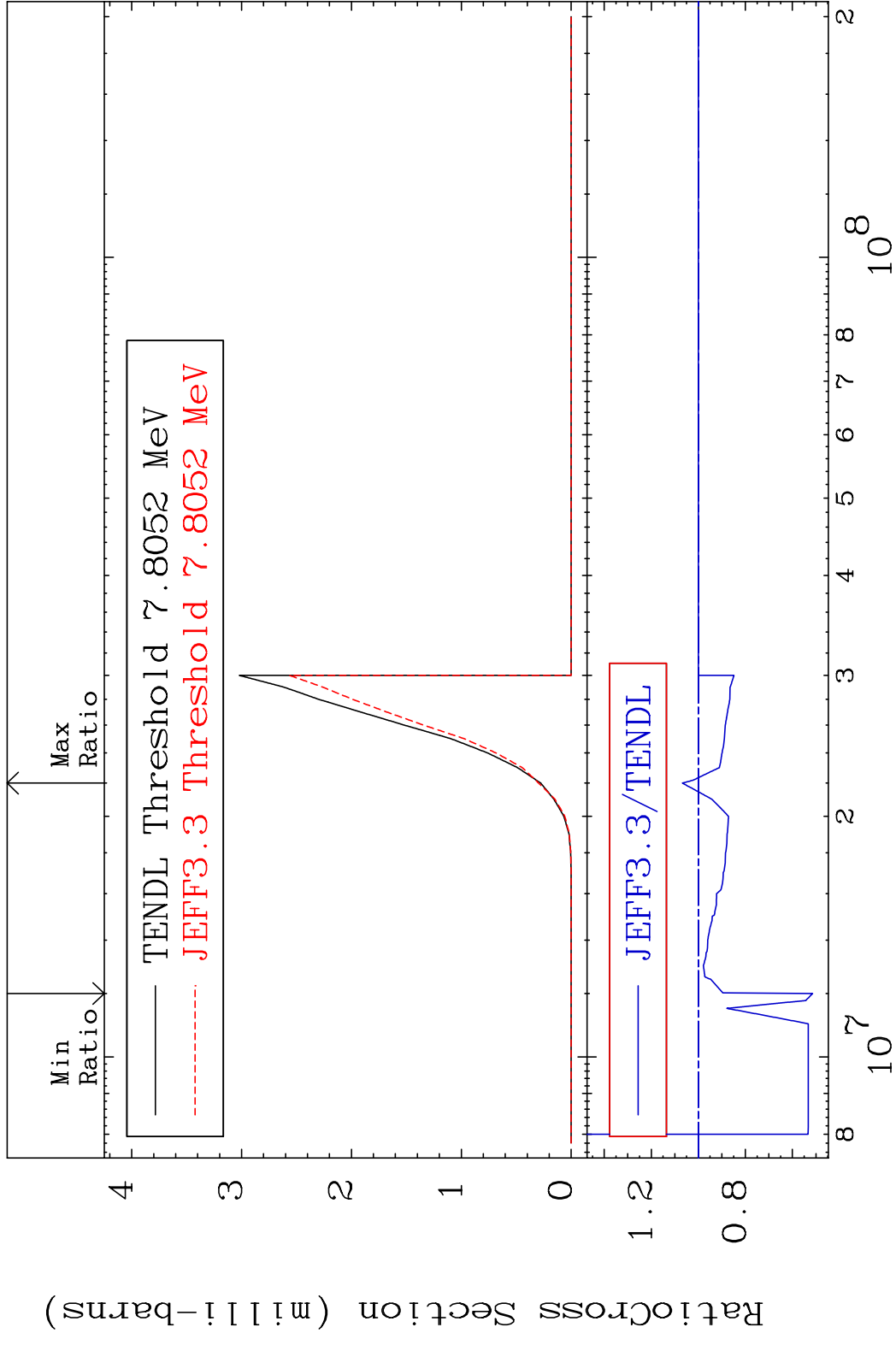
MAT 4125 (n,2n) p:39-Y -91g 41-Nb-93
 Radionuclide Production Cross Section 98.95 dth 110.3 %



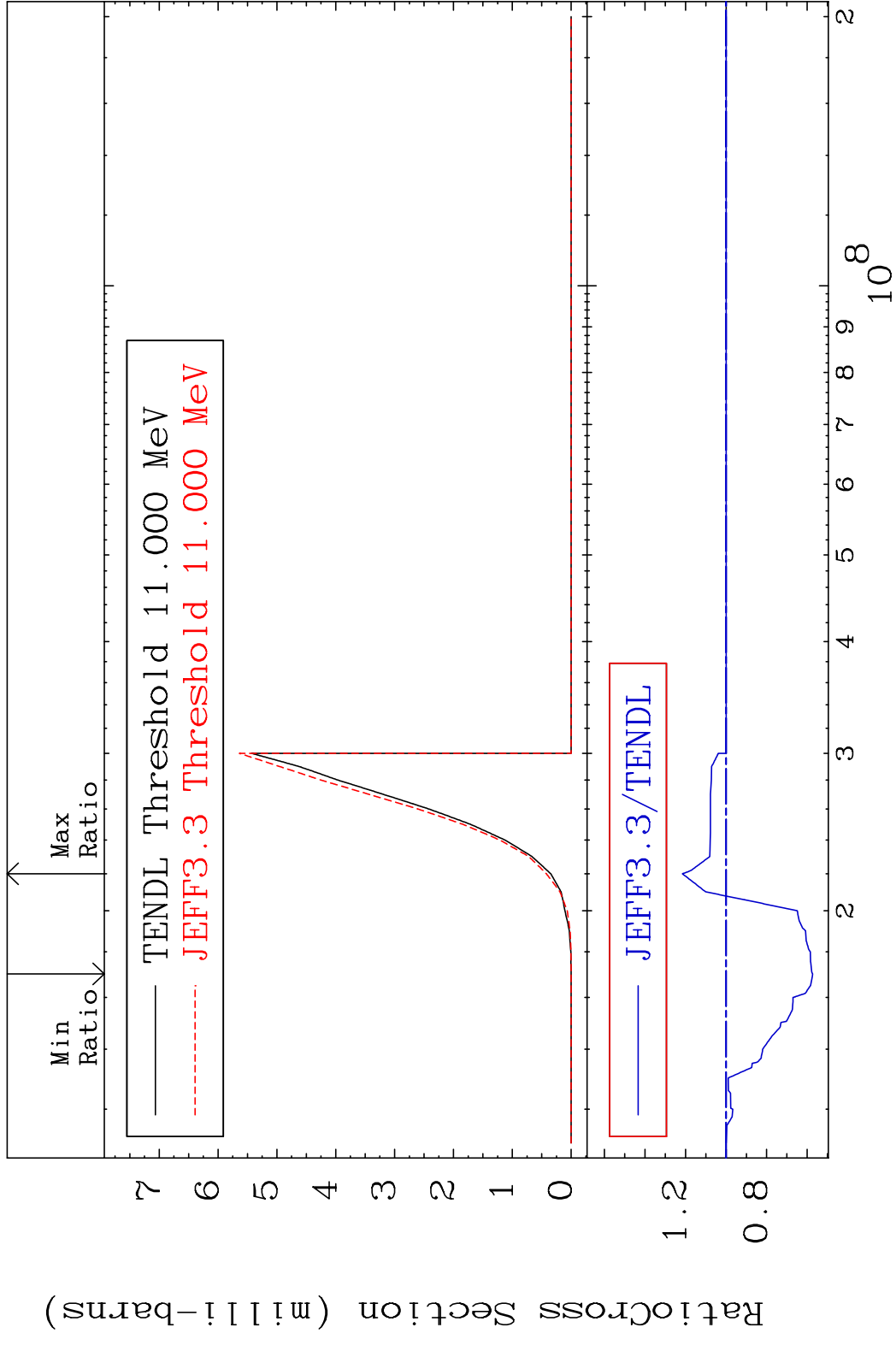
MAT 4125 (n,2n) p:39-Y -91m1 41-Nb-93
 Radionuclide Production Cross Section 180.01 dno 665.8 %



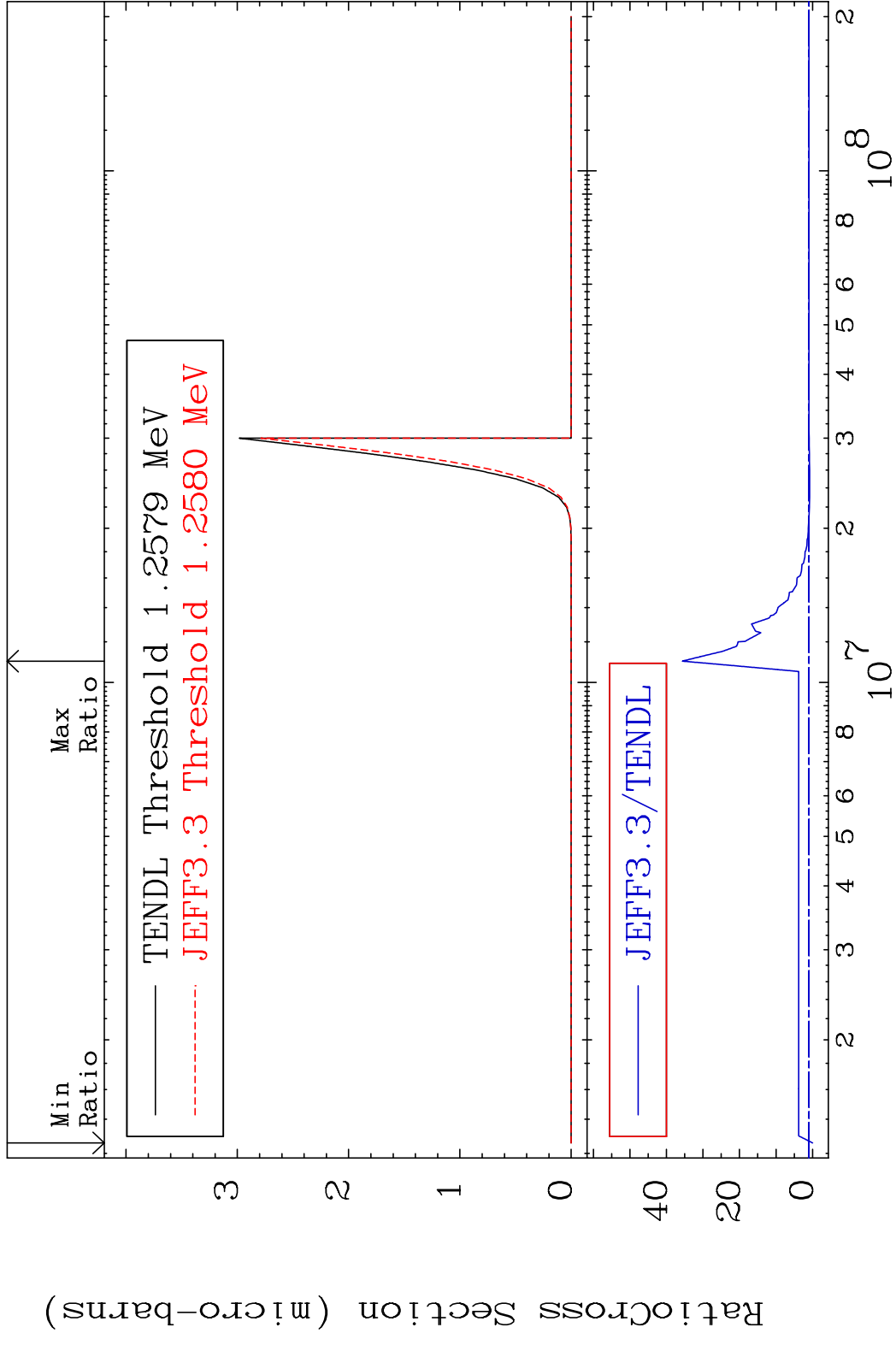
MAT 4125 (n, He-3):39-Y -91g 41-Nb-93
 Radionuclide Production Cross Section 6.782 %

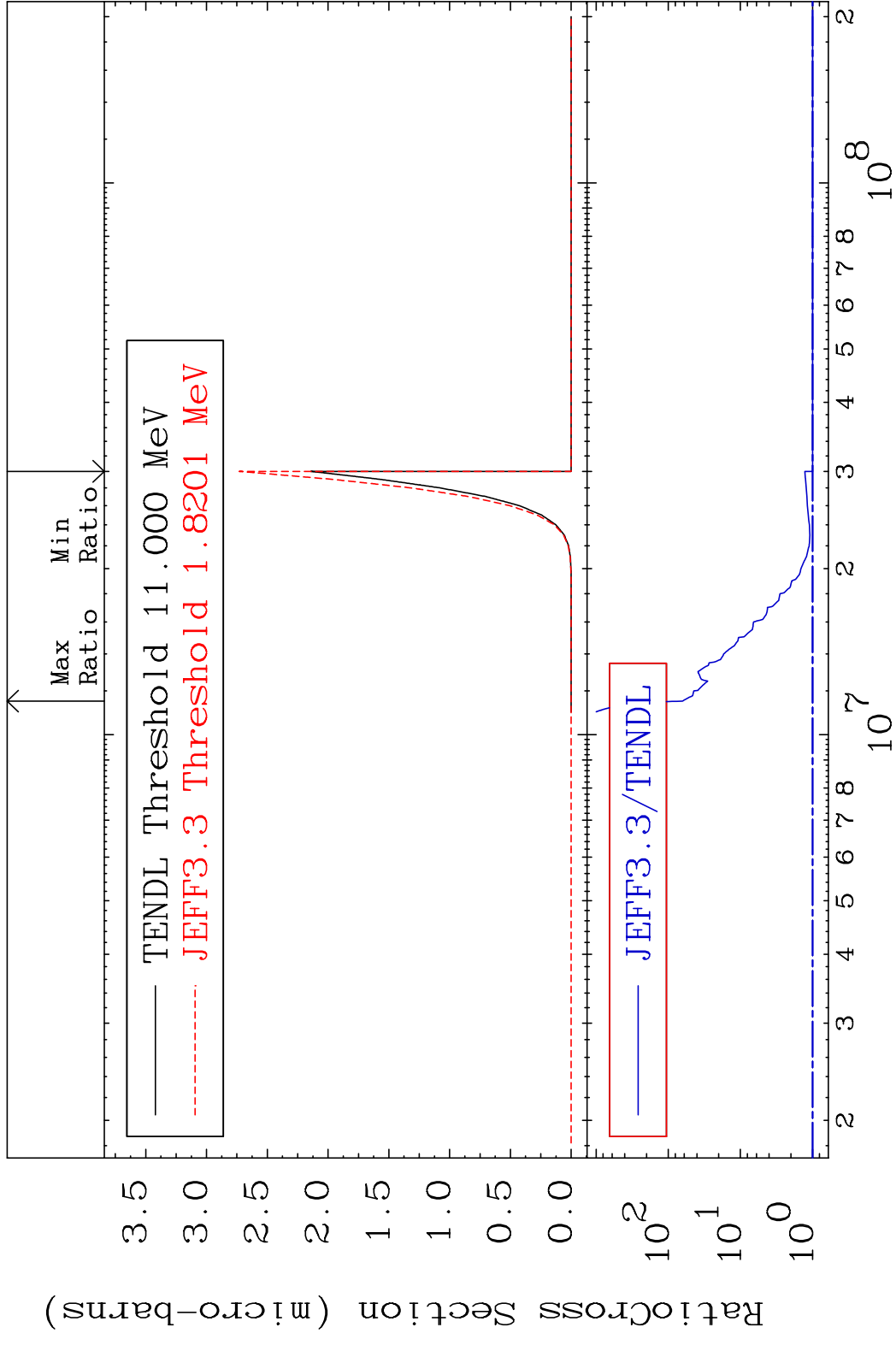


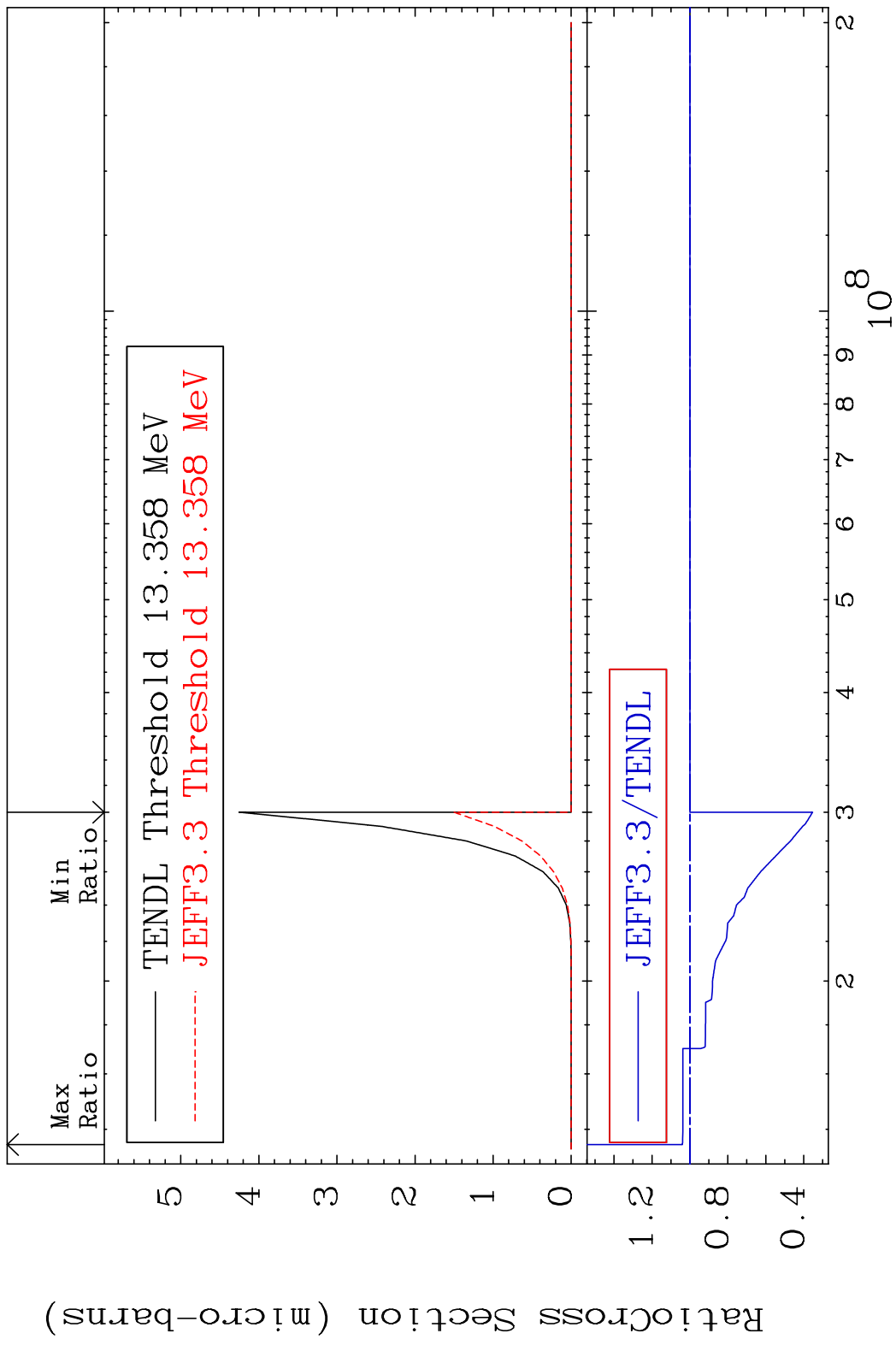
95 Incident Energy (eV) 41-Nb-93



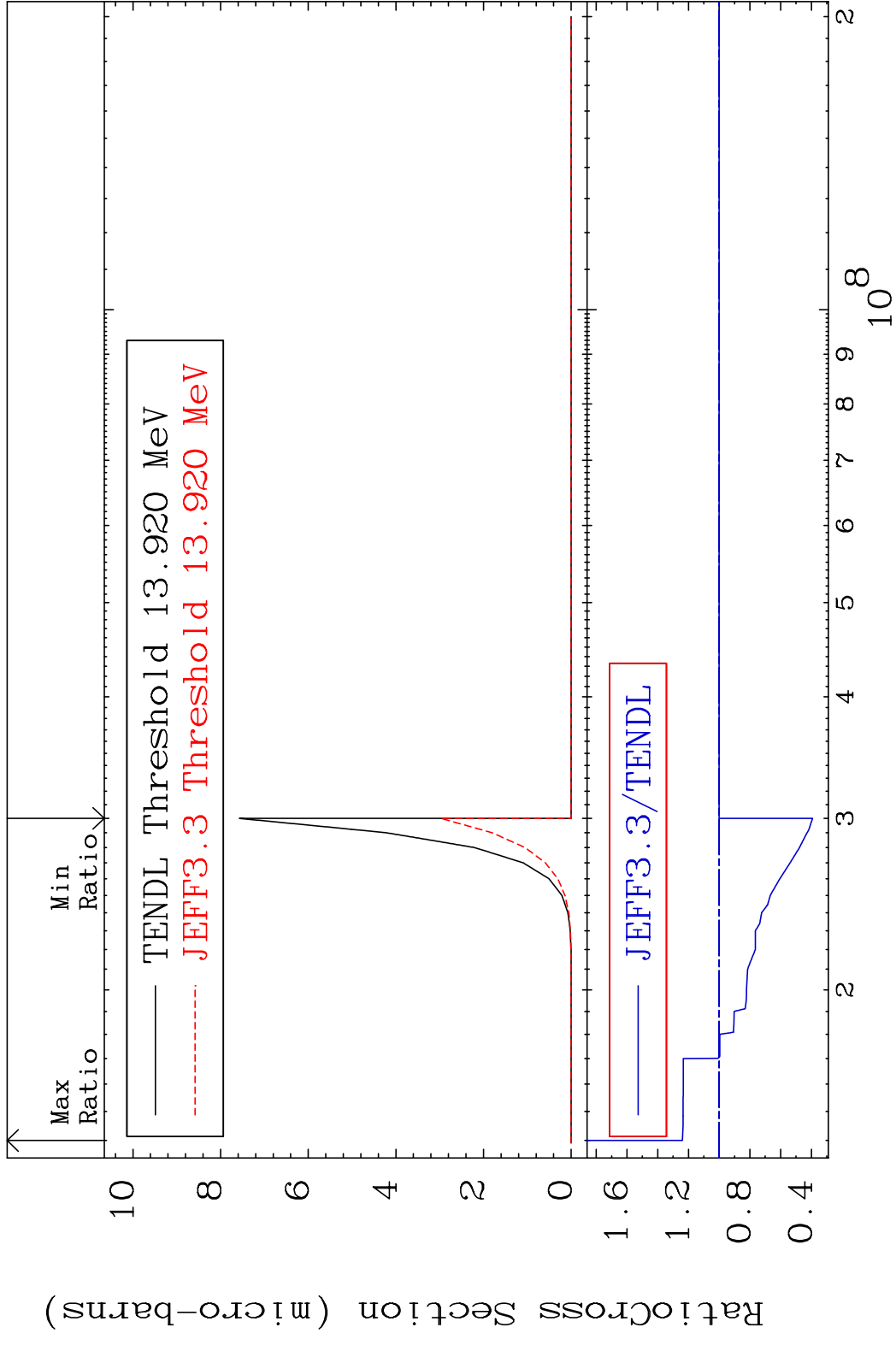
MAT 4125 (n,2α):37-Rb-86g 41-Nb-93
 Radionuclide Production Cross Section 1800.0 dno 3464. %





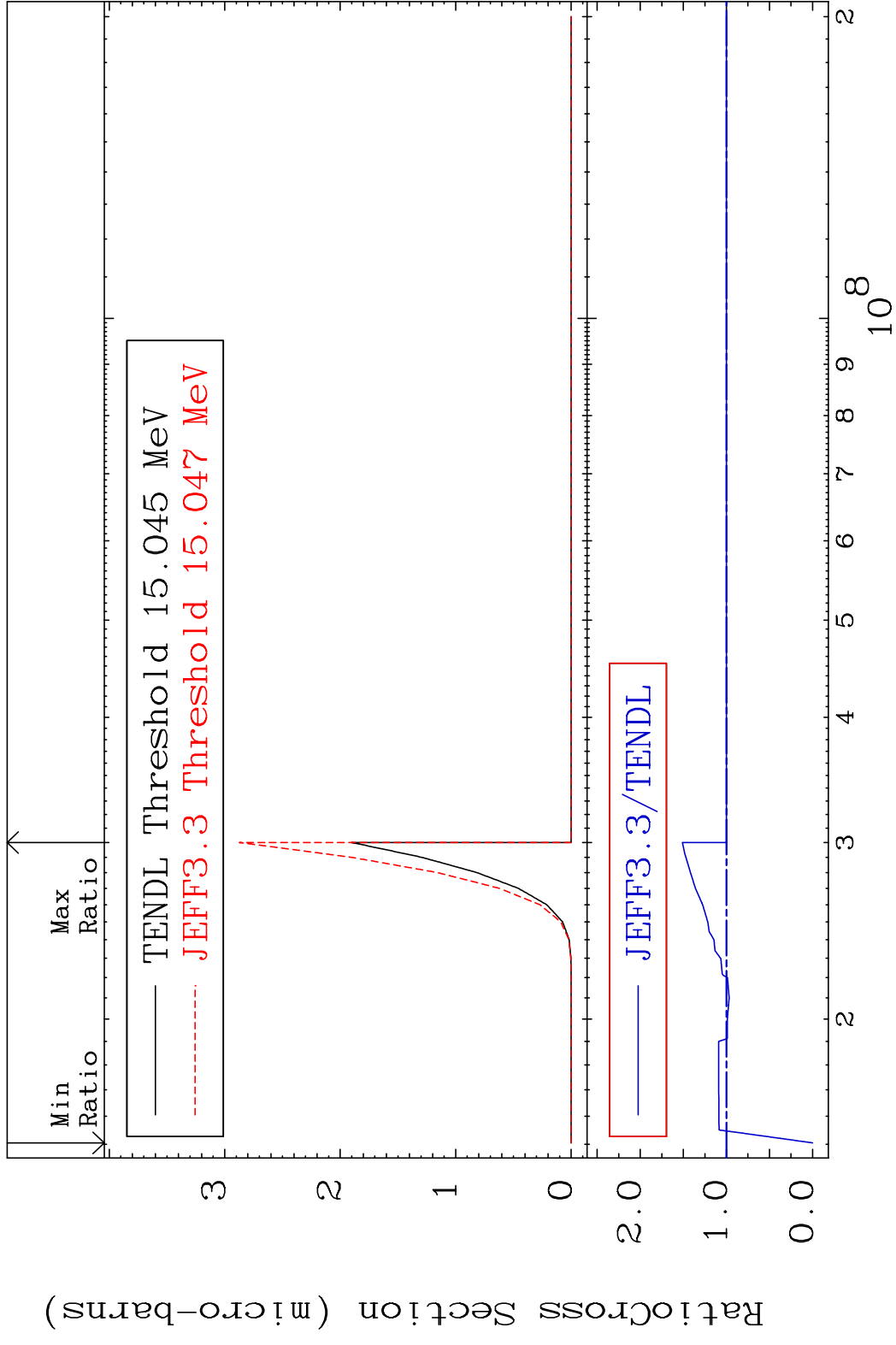


MAT 4125 (n,p) d:39-Y -91m1 41-Nb-93
 Radionuclide Production Cross Section 68.571 d10 23.97 %



100 Incident Energy (eV) 41-Nb-93

MAT 4125 (n, p) t:39-Y -90g 41-Nb-93
 Radionuclide Production Cross Section 51.14 %



MAT 4125 (n,p) t:39-Y -90m2 41-Nb-93
 Radionuclide Production Cross Section 180.01 d10 45.41 %

