

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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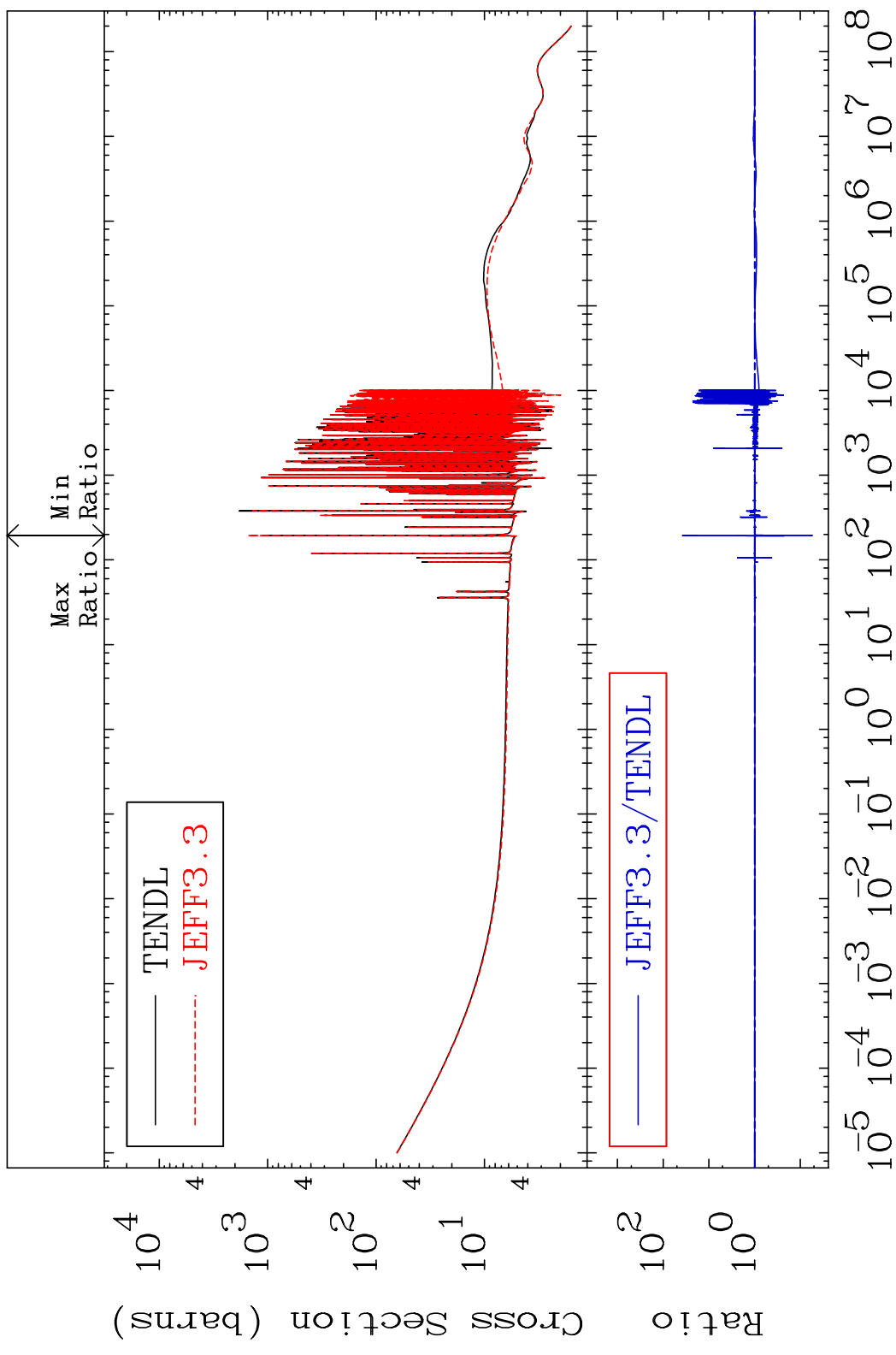
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4125

Total Cross Section -94.61 To 3706. % 41-Nb-93



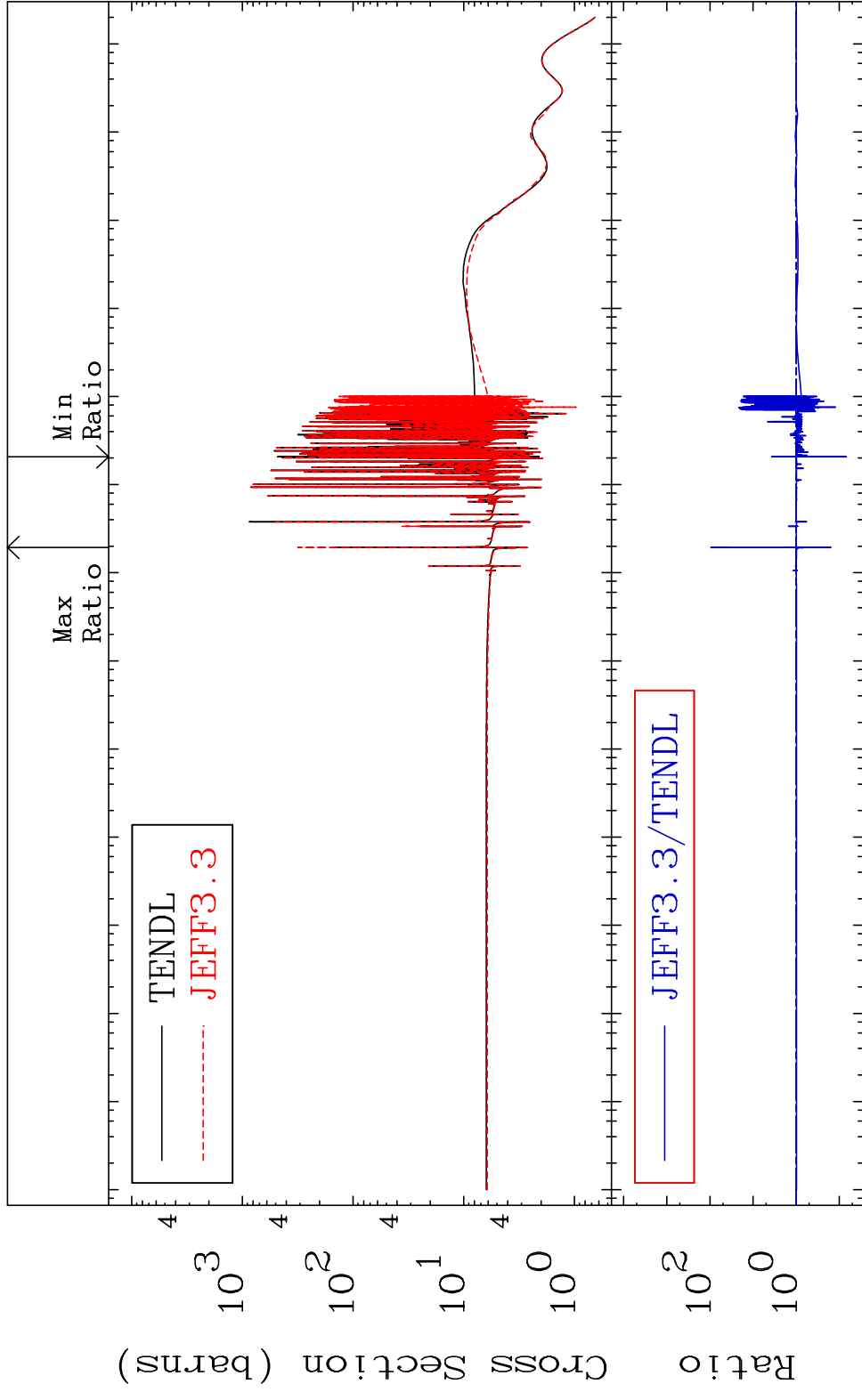
1 Incident Energy (eV) 41-Nb-93

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)

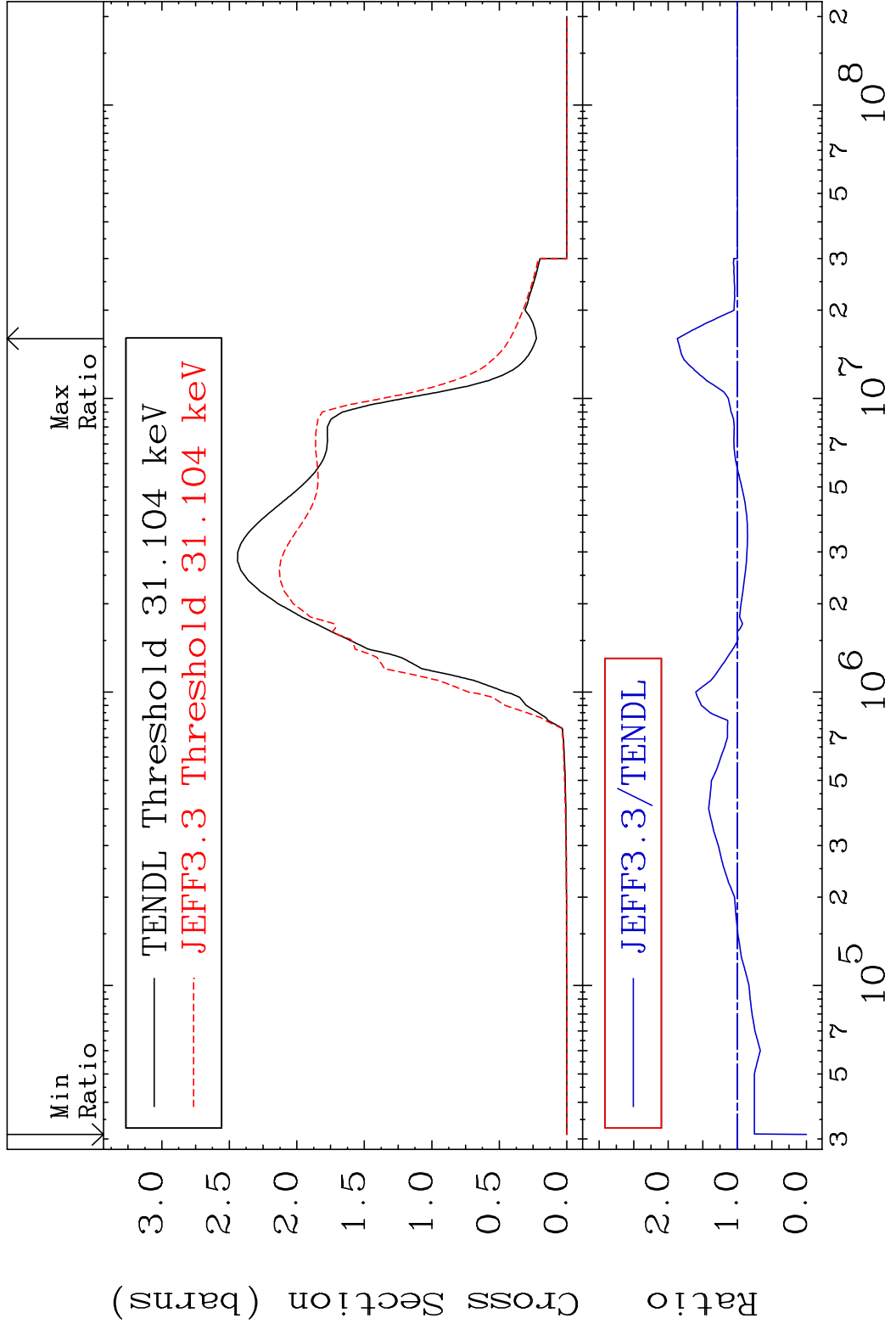
41-Nb-93

MAT 4125

Inelastic

41-Nb-93

Cross Section -100.0 To 87.05 %



3

Incident Energy (eV)

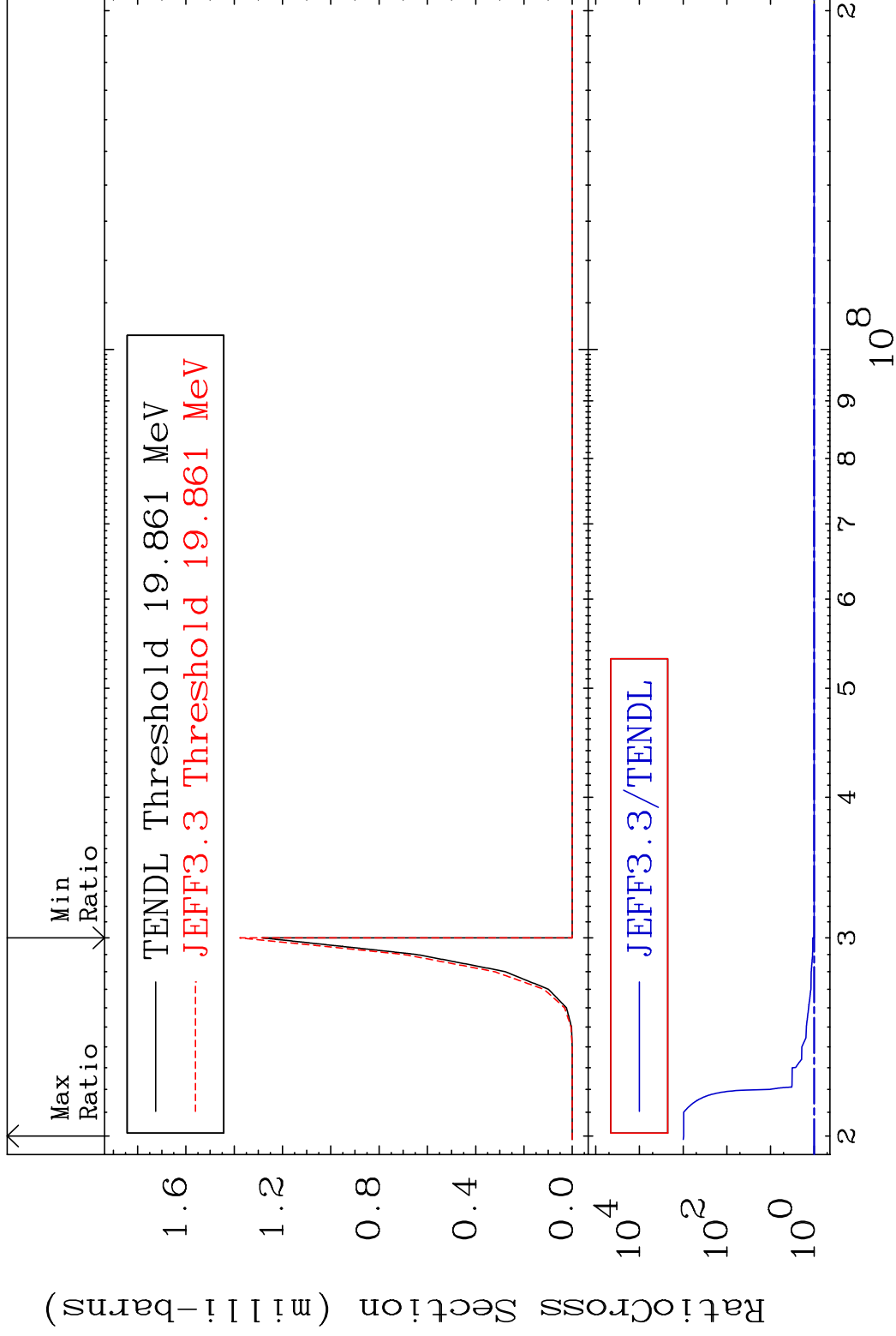
41-Nb-93

MAT 4125

(n,2n) d

41-Nb-93

Cross Section 0.000 To 9999. %



4

Incident Energy (eV)

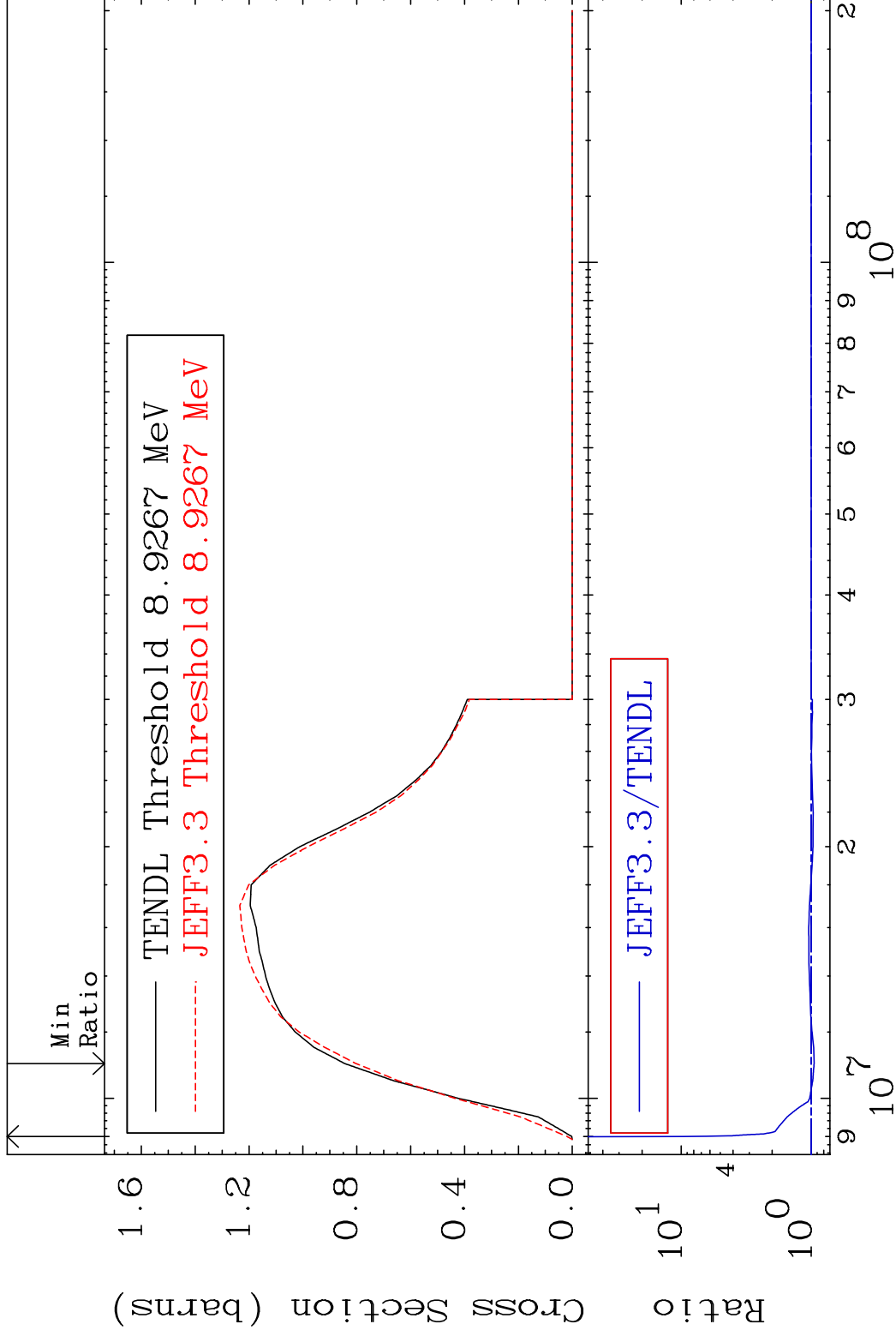
41-Nb-93

MAT 4125

(n,2n)

41-Nb-93

Cross Section -4.950 To 857.0 %



5

Incident Energy (eV)

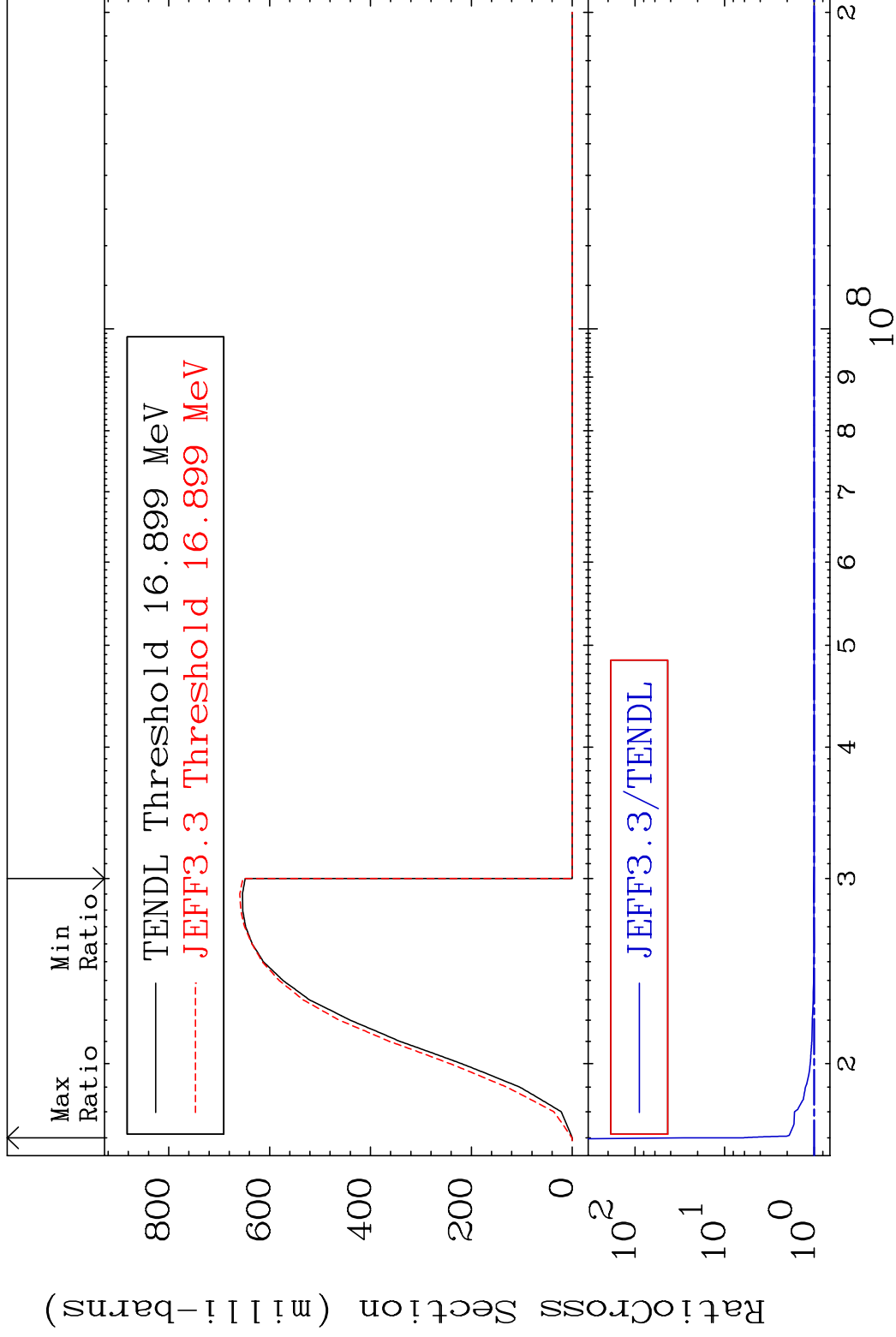
41-Nb-93

MAT 4125

(n,3n)

41-Nb-93

Cross Section 0.000 To 2760. %

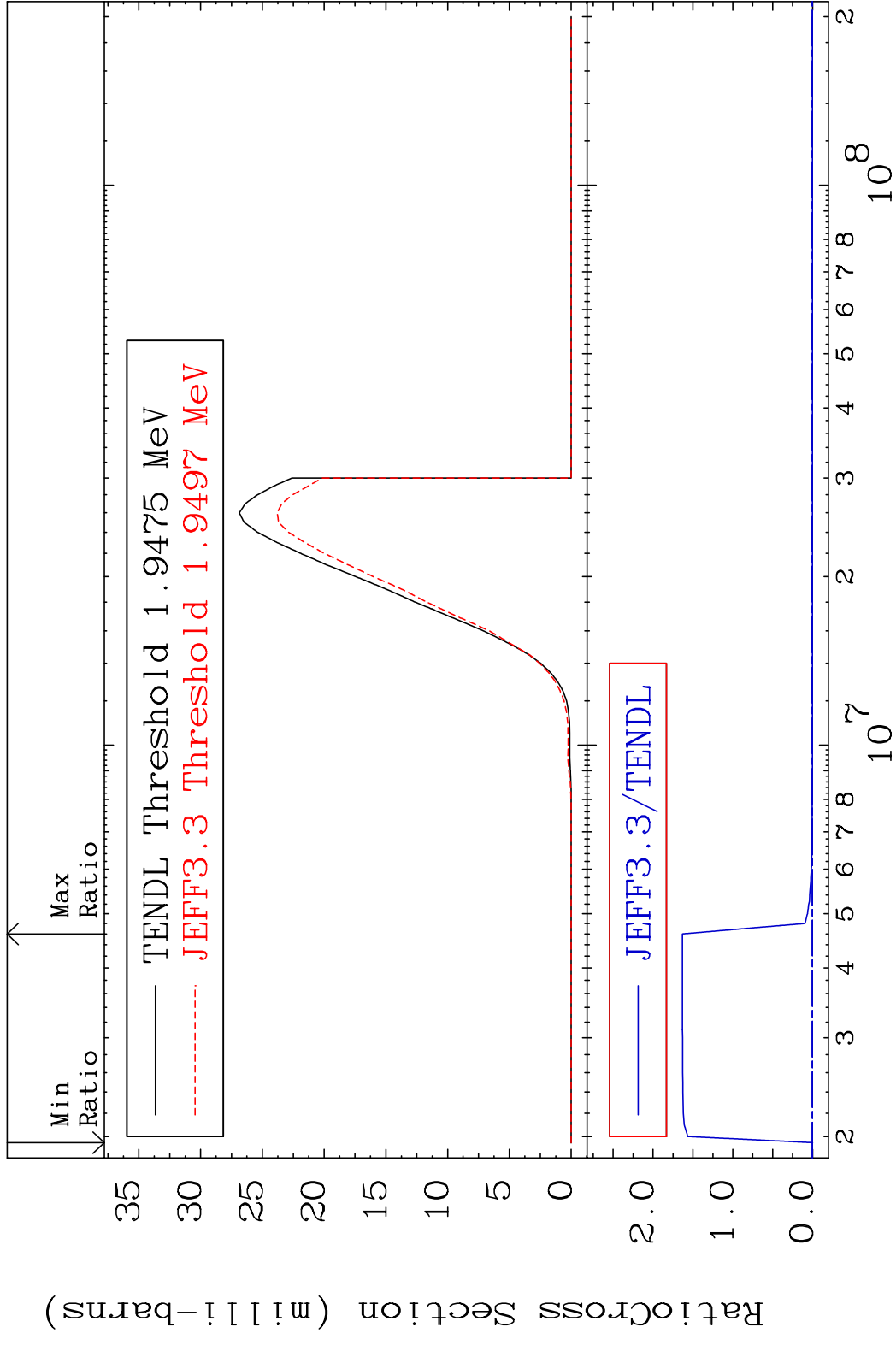


6

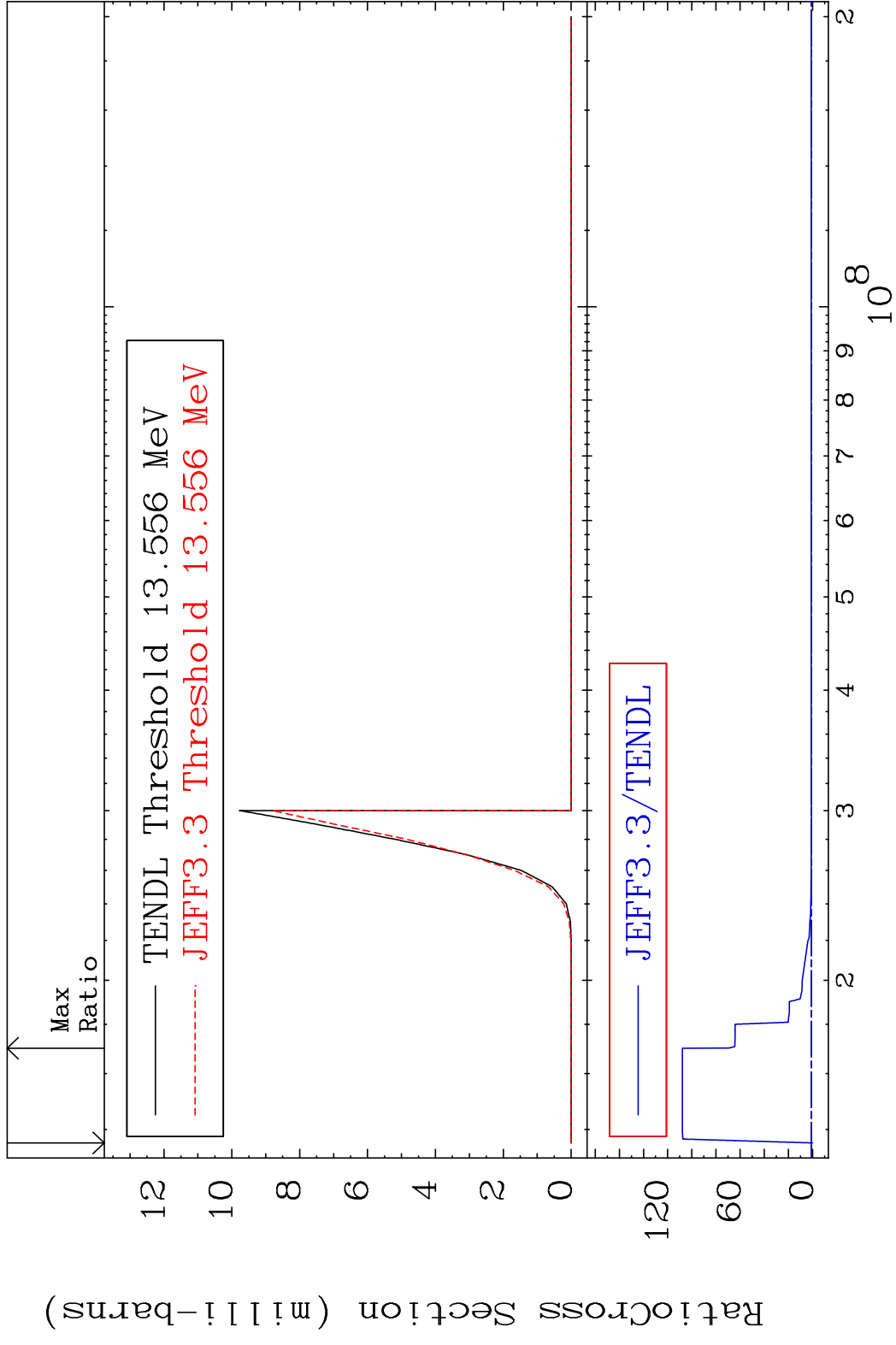
Incident Energy (eV)

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. %



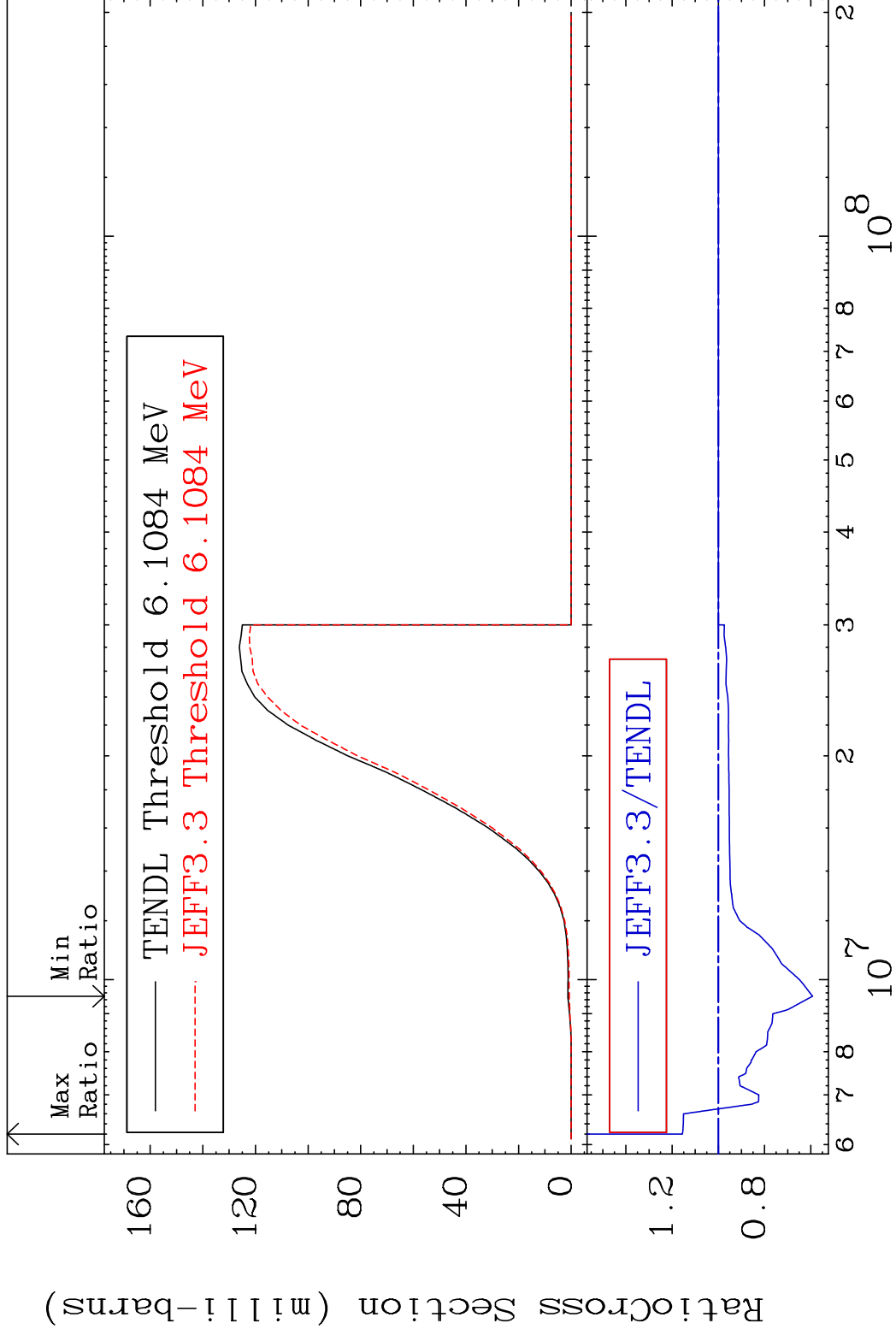
8 8 41-Nb-93

MAT 4125

(n, n') p

41-Nb-93

Cross Section -40.76 To 15.58 %



9

Incident Energy (eV)

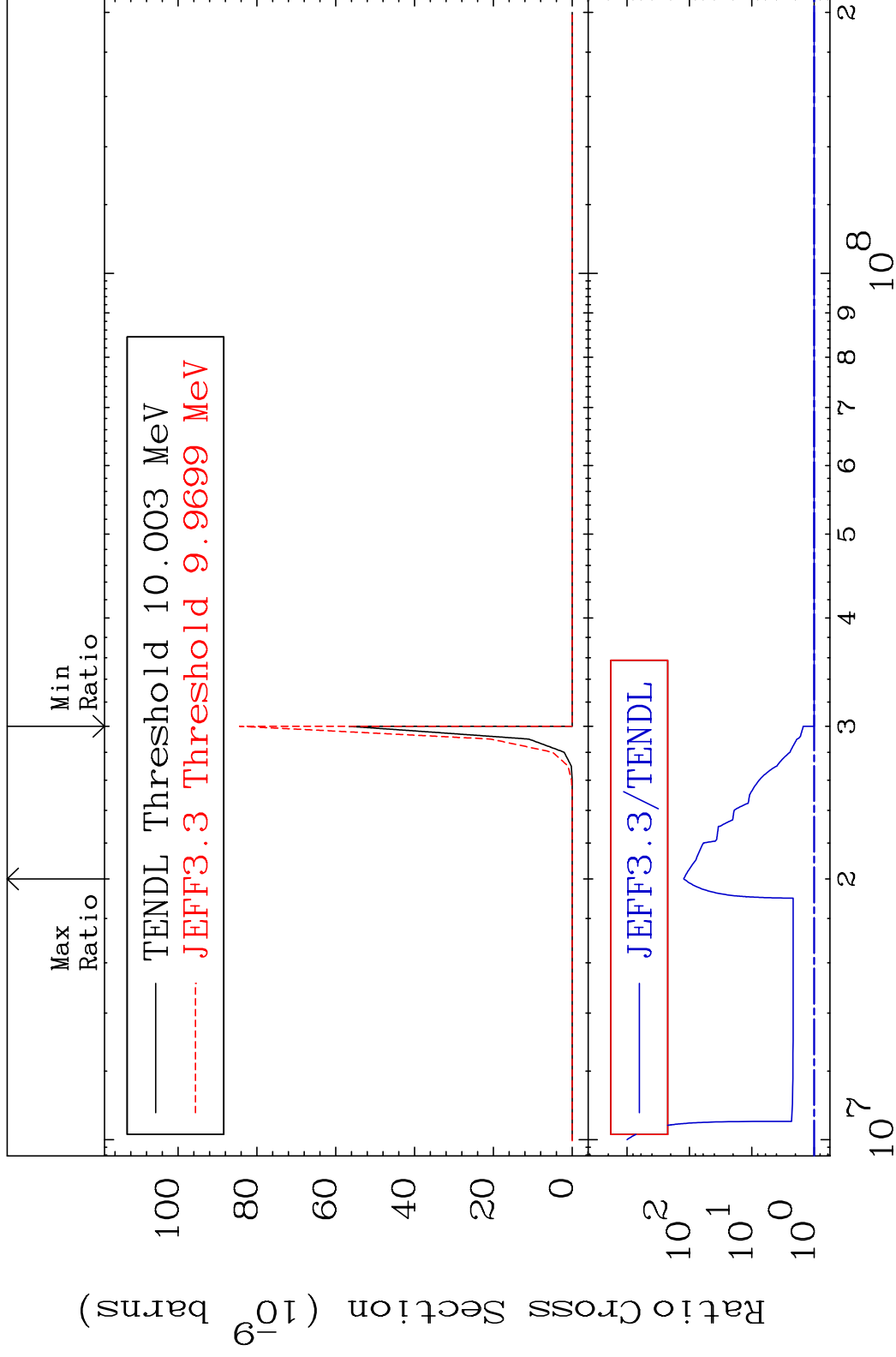
41-Nb-93

MAT 4125

(n, n') 2α

41-Nb-93

Cross Section 0.000 To 9999. %



10

Incident Energy (eV)

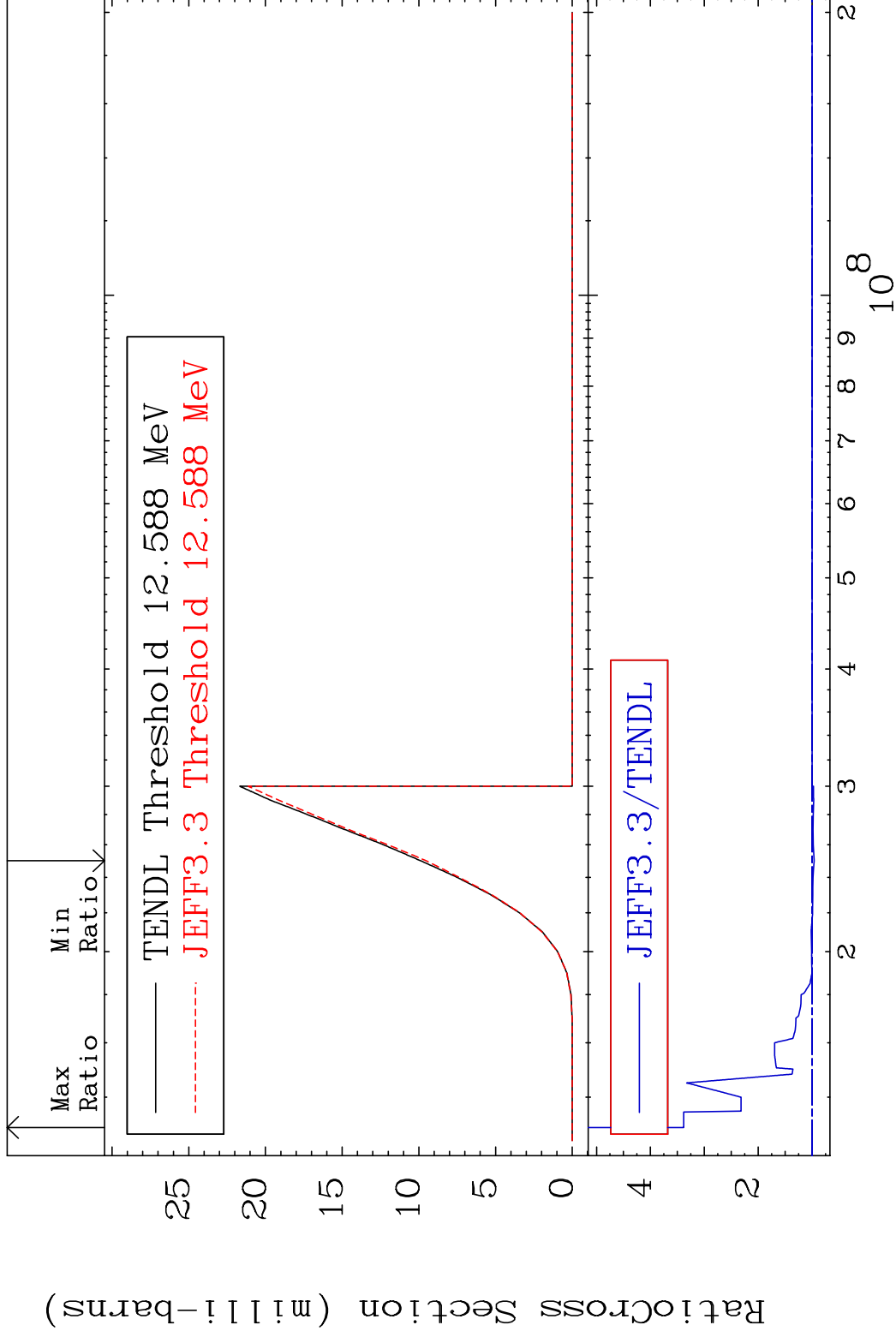
41-Nb-93

MAT 4125

(n, n') d

41-Nb-93

Cross Section -3.722 To 238.3 %

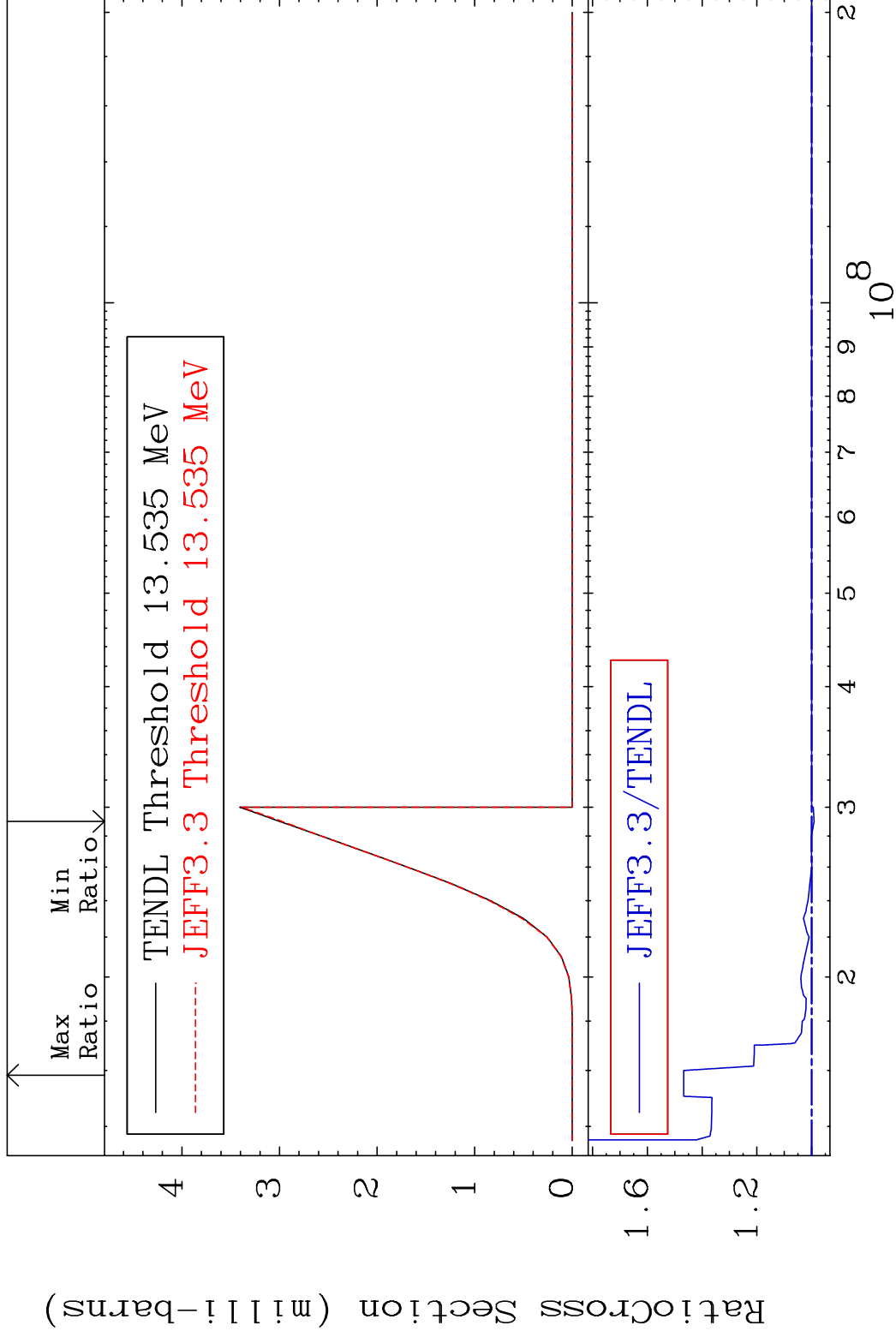


MAT 4125

(n, n') t

41-Nb-93

Cross Section -0.899 To 46.74 %



12

Incident Energy (eV)

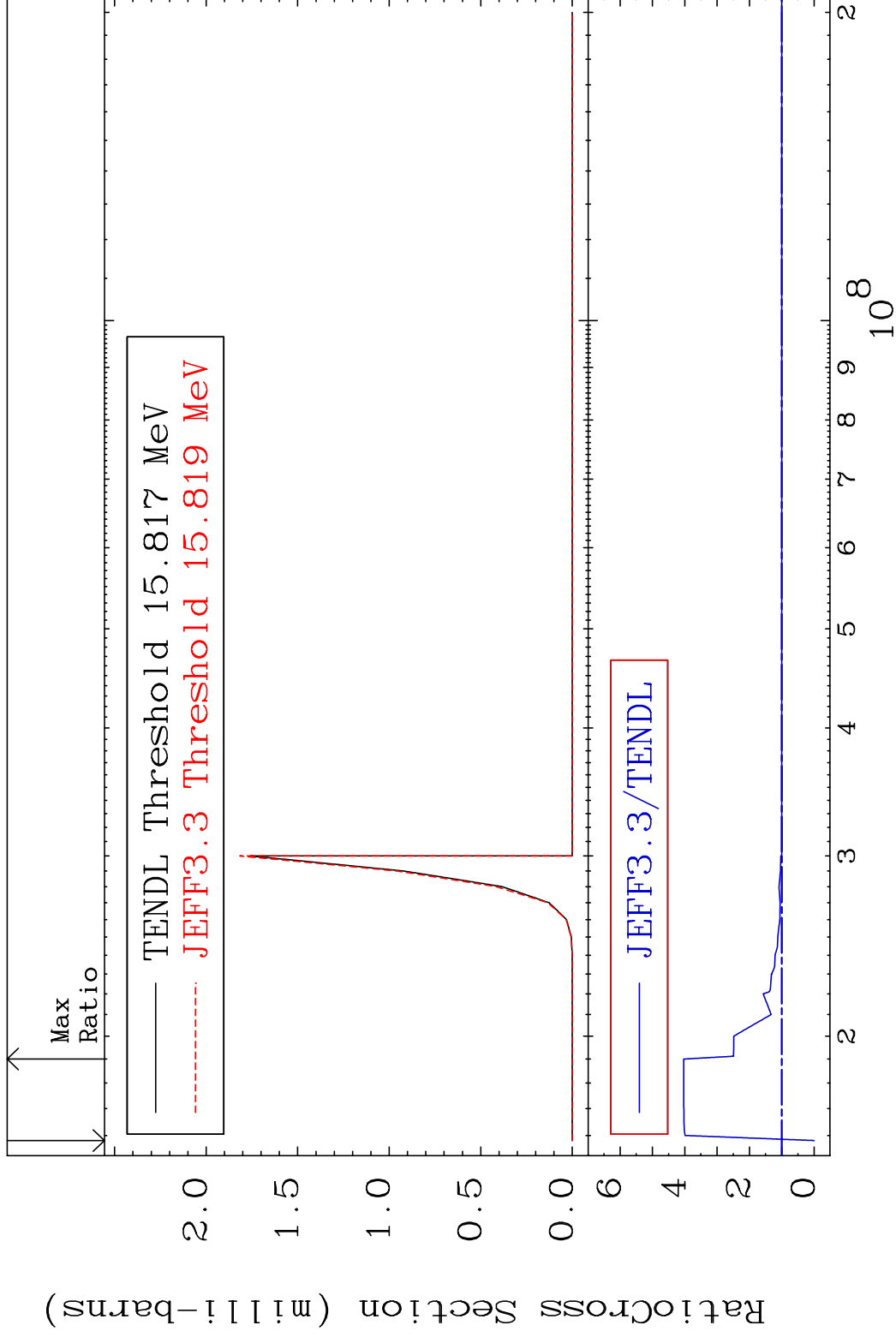
41-Nb-93

MAT 4125

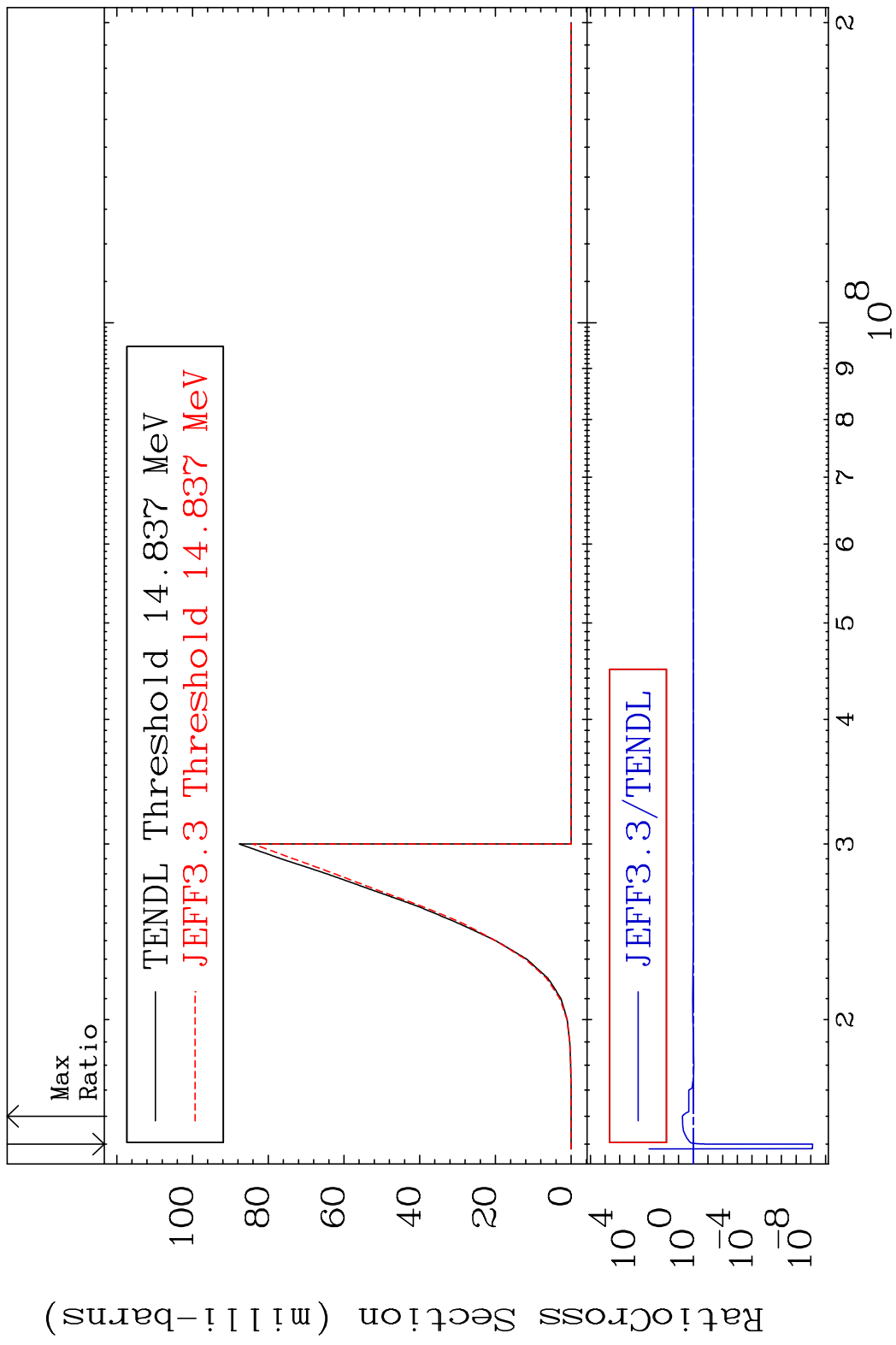
(n,n') He-3

41-Nb-93

Cross Section -100.0 To 303.4 %



MAT 4125 (n,2n) p 41-Nb-93
 Cross Section -100.0 To 451.4 %

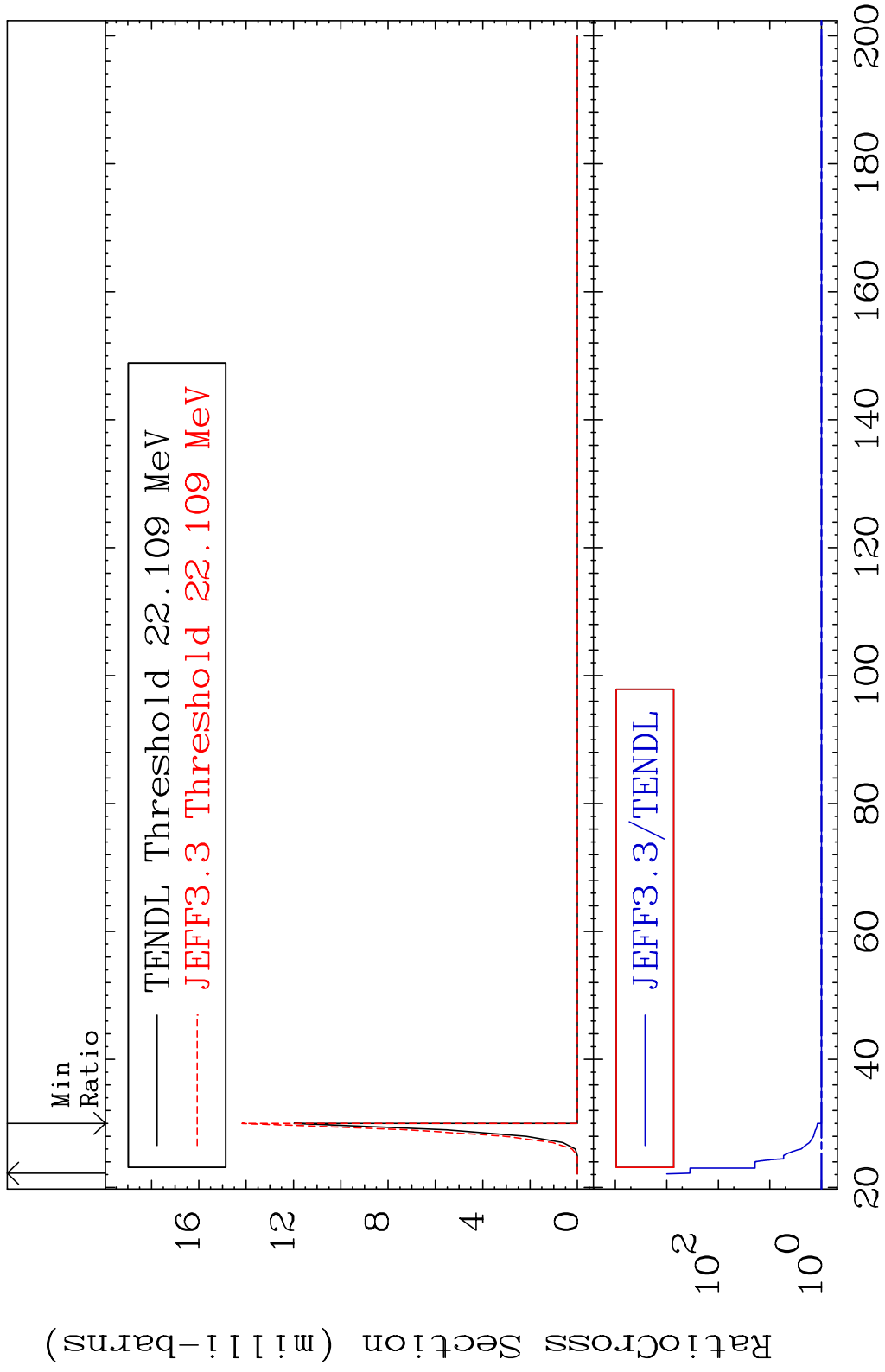


MAT 4125

(n,3n) p

41-Nb-93

Cross Section 0.000 To 9999. %

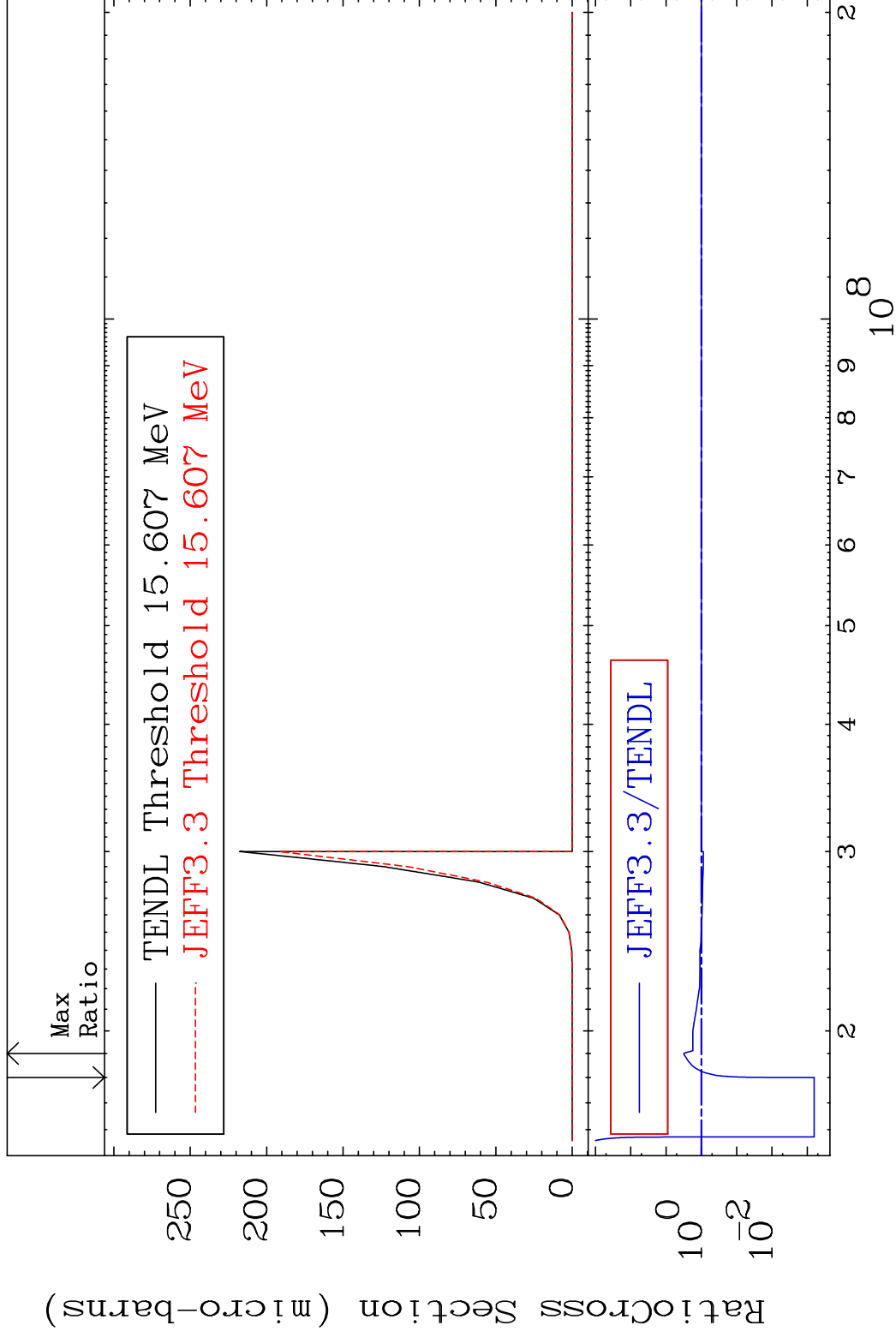


MAT 4125

(n,2n) p

41-Nb-93

Cross Section -99.94 To 217.1 %



16

Incident Energy (eV)

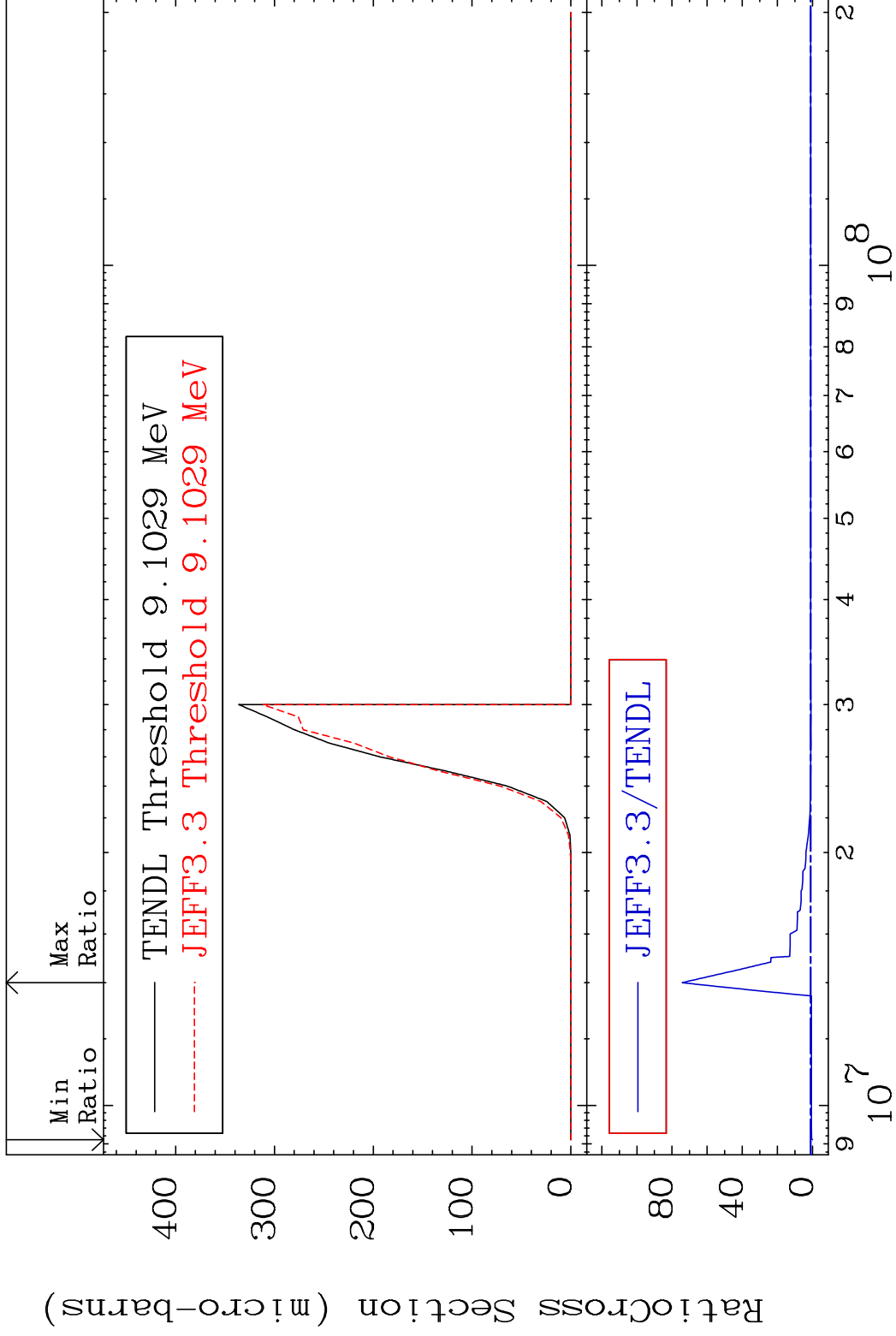
41-Nb-93

MAT 4125

(n,n') p α

41-Nb-93

Cross Section -100.0 To 7322. %

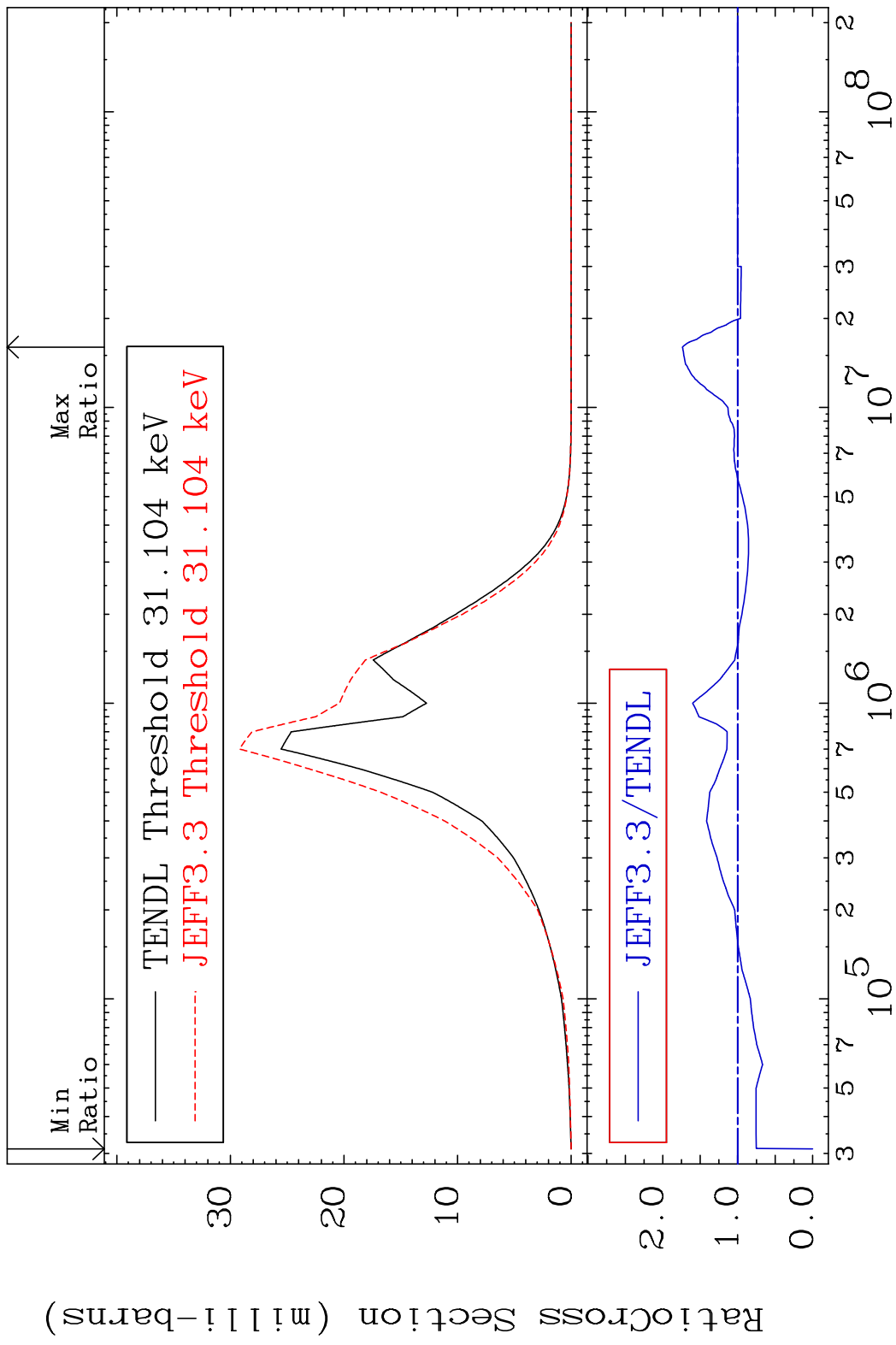


17

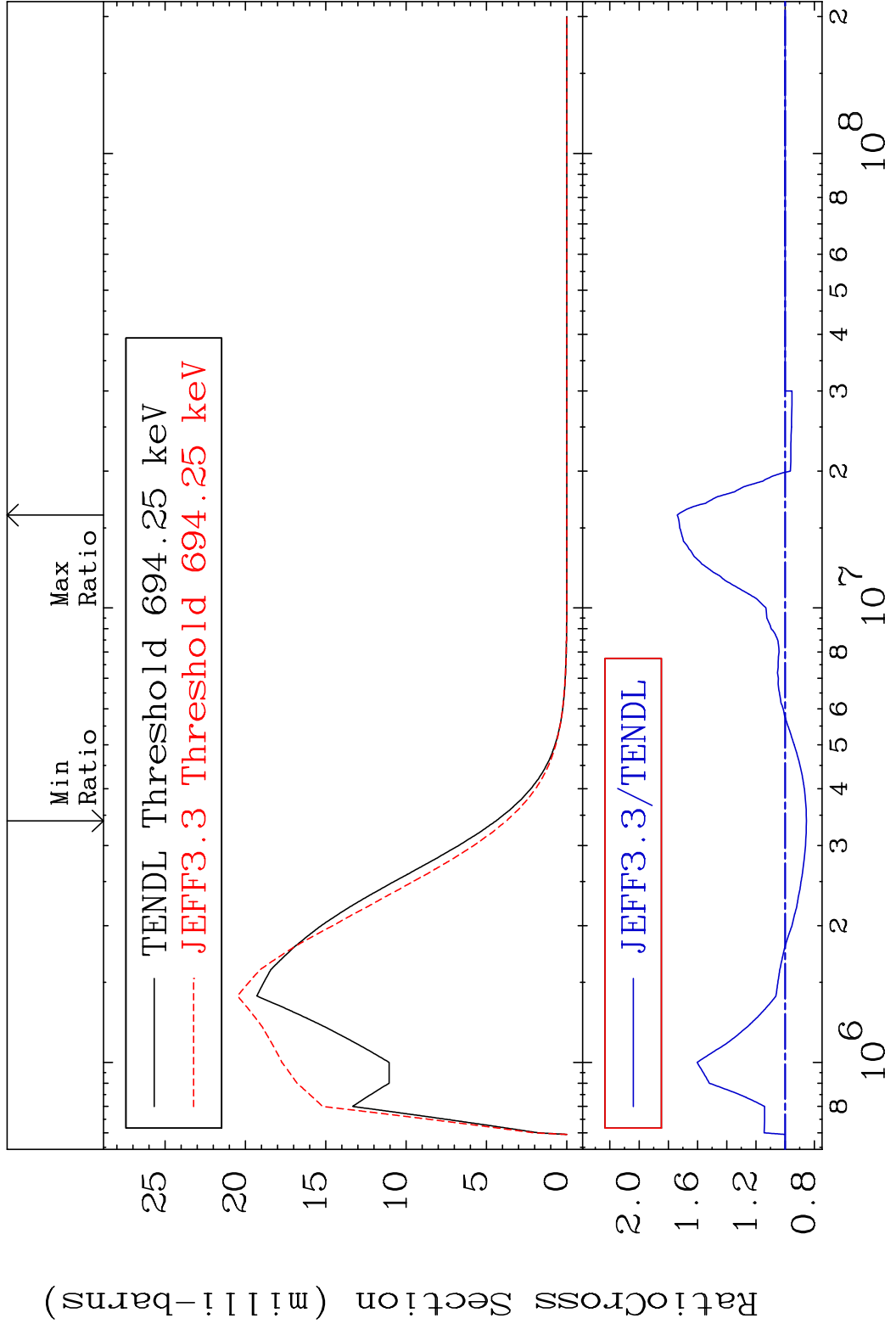
Incident Energy (eV)

41-Nb-93

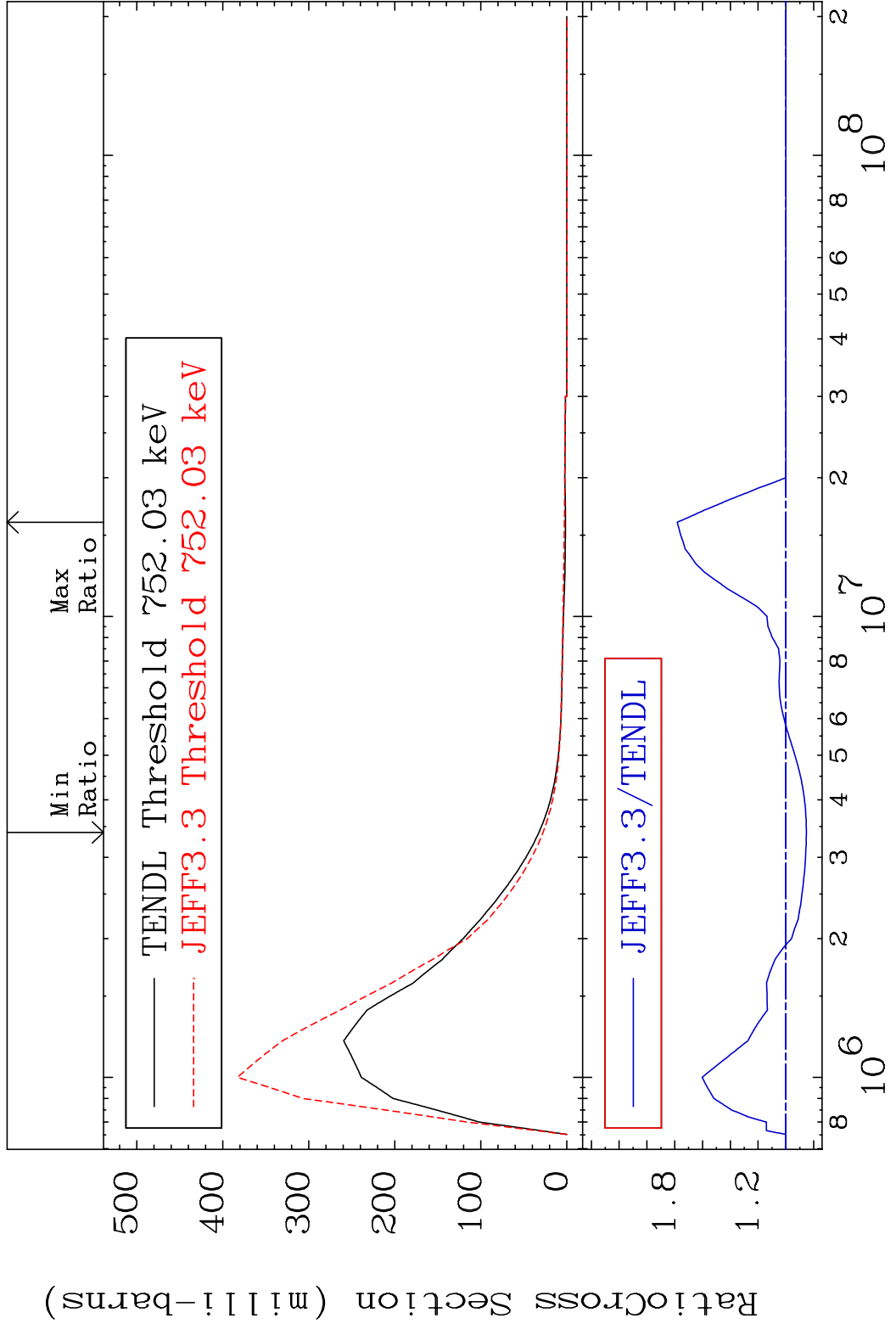
MAT 4125 MT= 51 (n,n') Level 41-Nb-93
 Cross Section -100.0 To 73.91 %



MAT 4125 MT= 52 (n, n') Level 41-Nb-93
 Cross Section -14.60 To 73.91 %

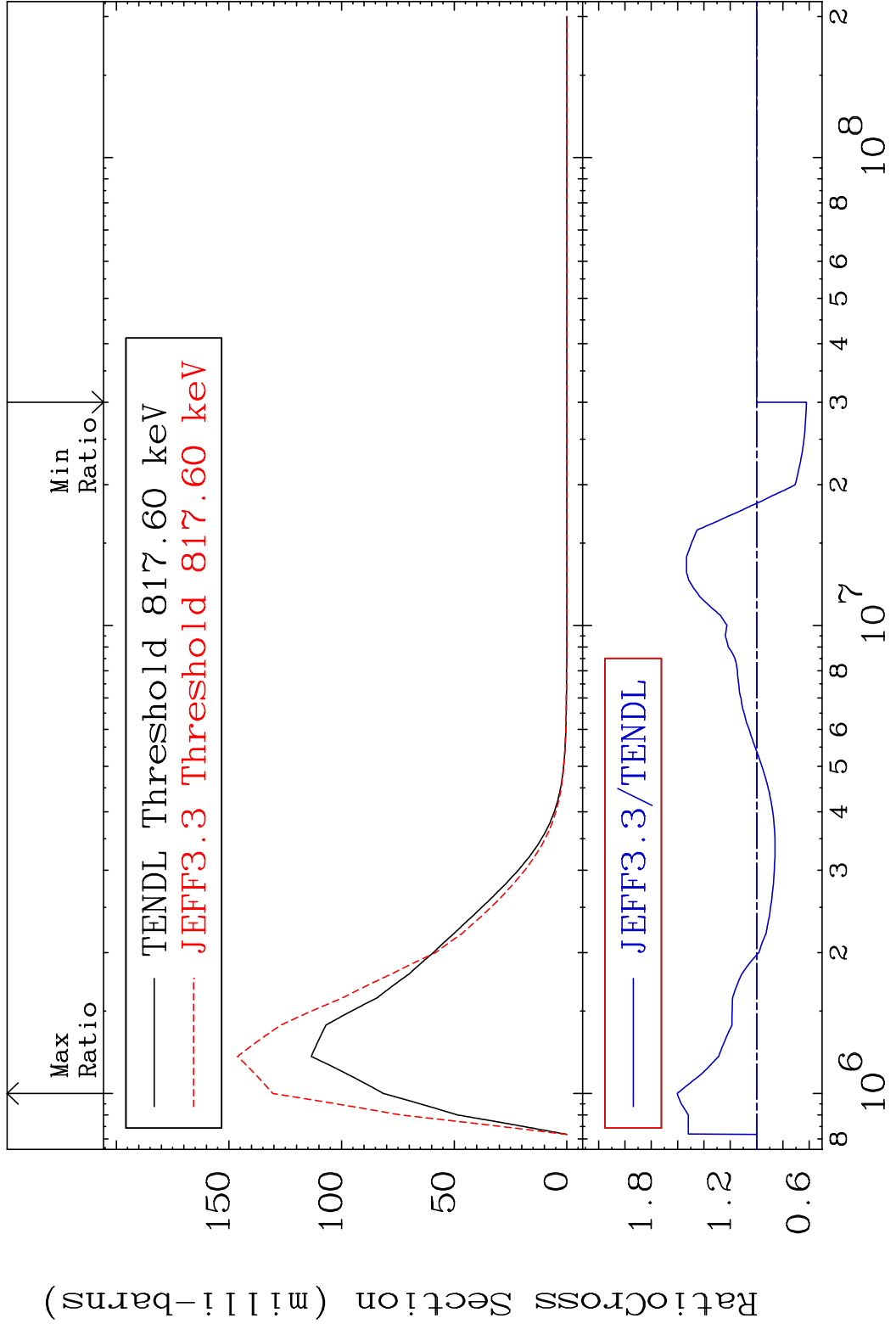


MAT 4125 MT= 53 (n, n') Level 41-Nb-93
 Cross Section -14.74 To 78.24 %

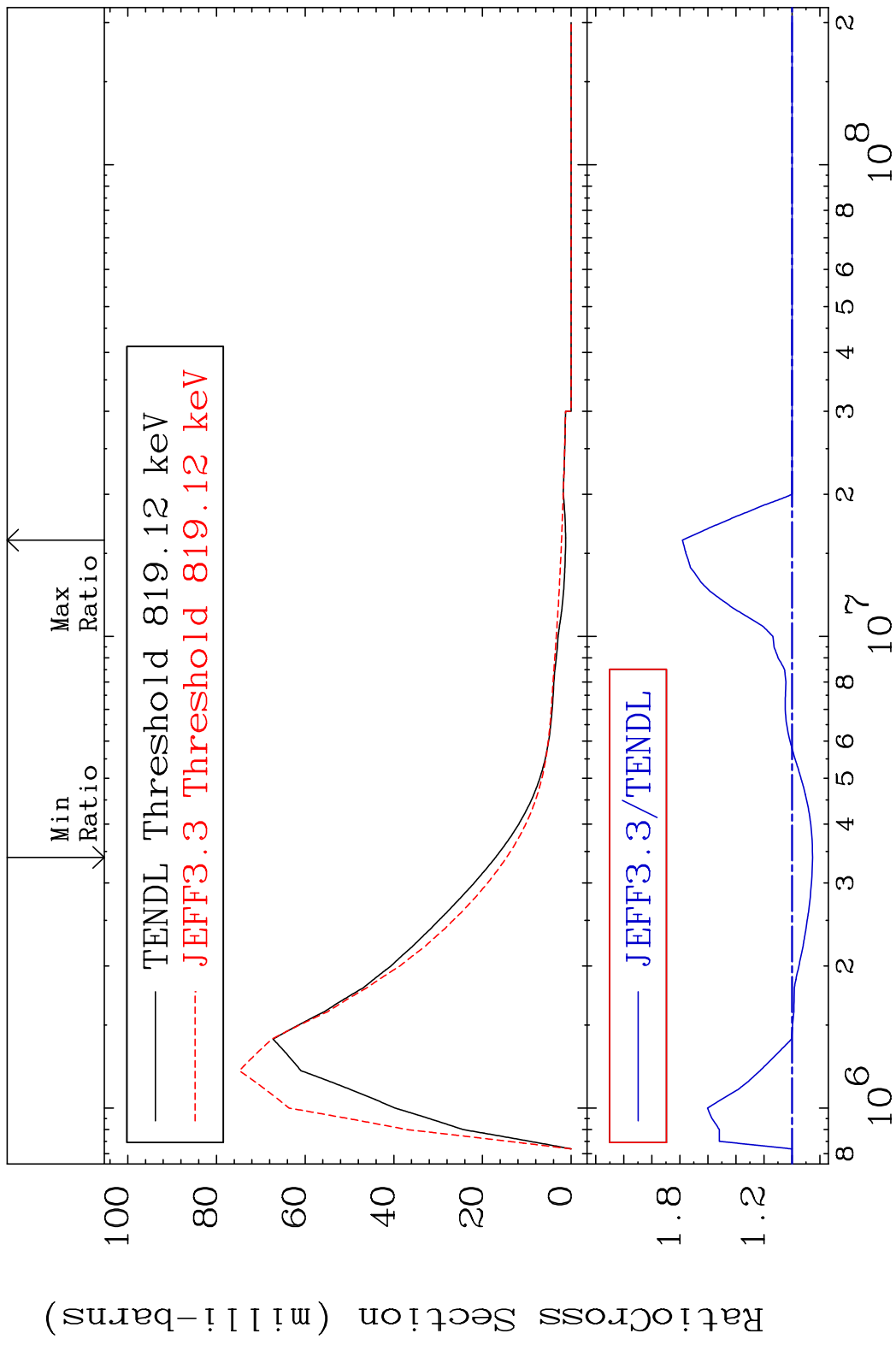


20 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 54 (n,n') Level 41-Nb-93
 Cross Section -37.84 To 60.30 %

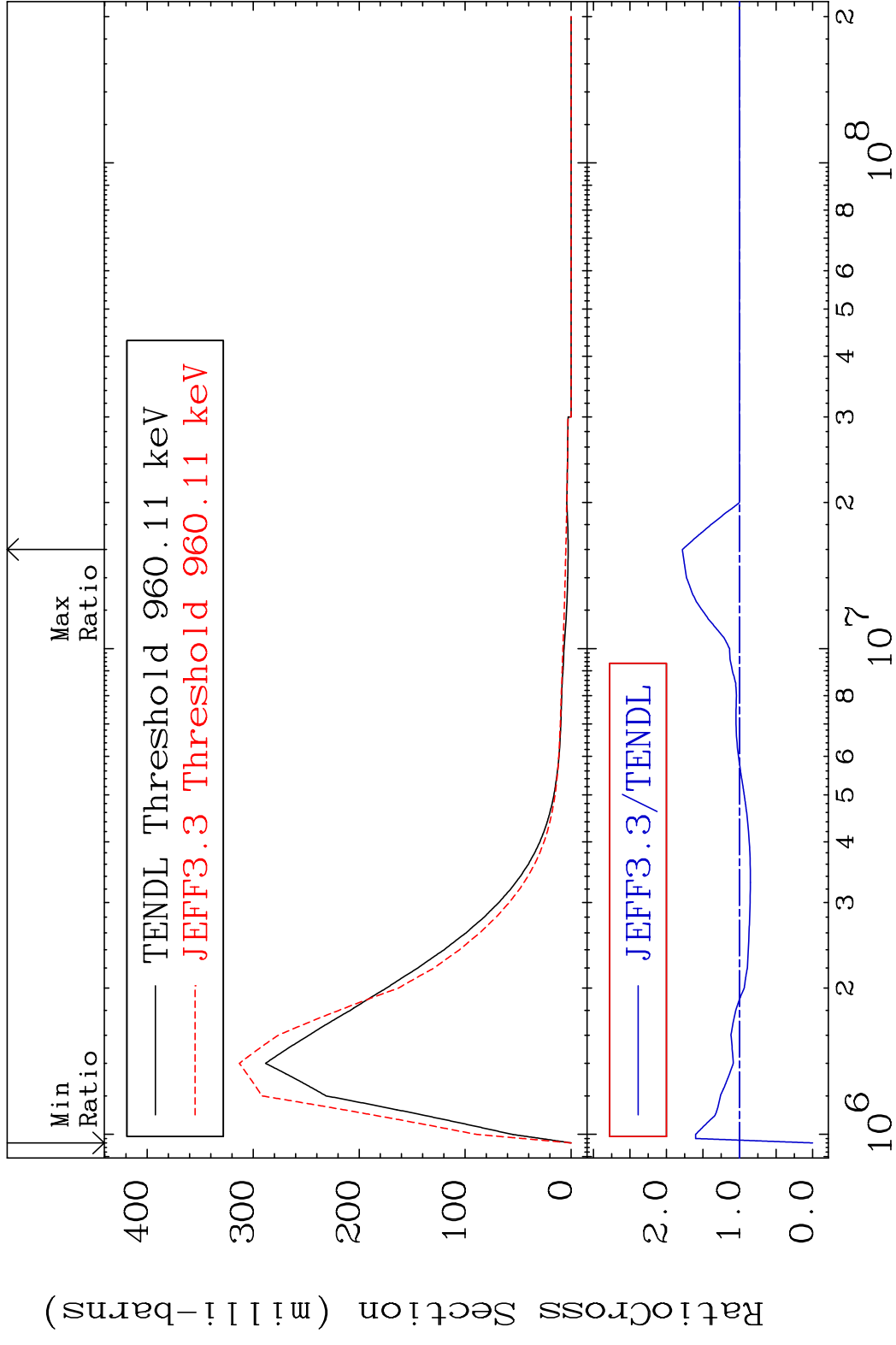


MAT 4125 MT= 55 (n, n') Level 41-Nb-93
 Cross Section -14.68 To 78.24 %



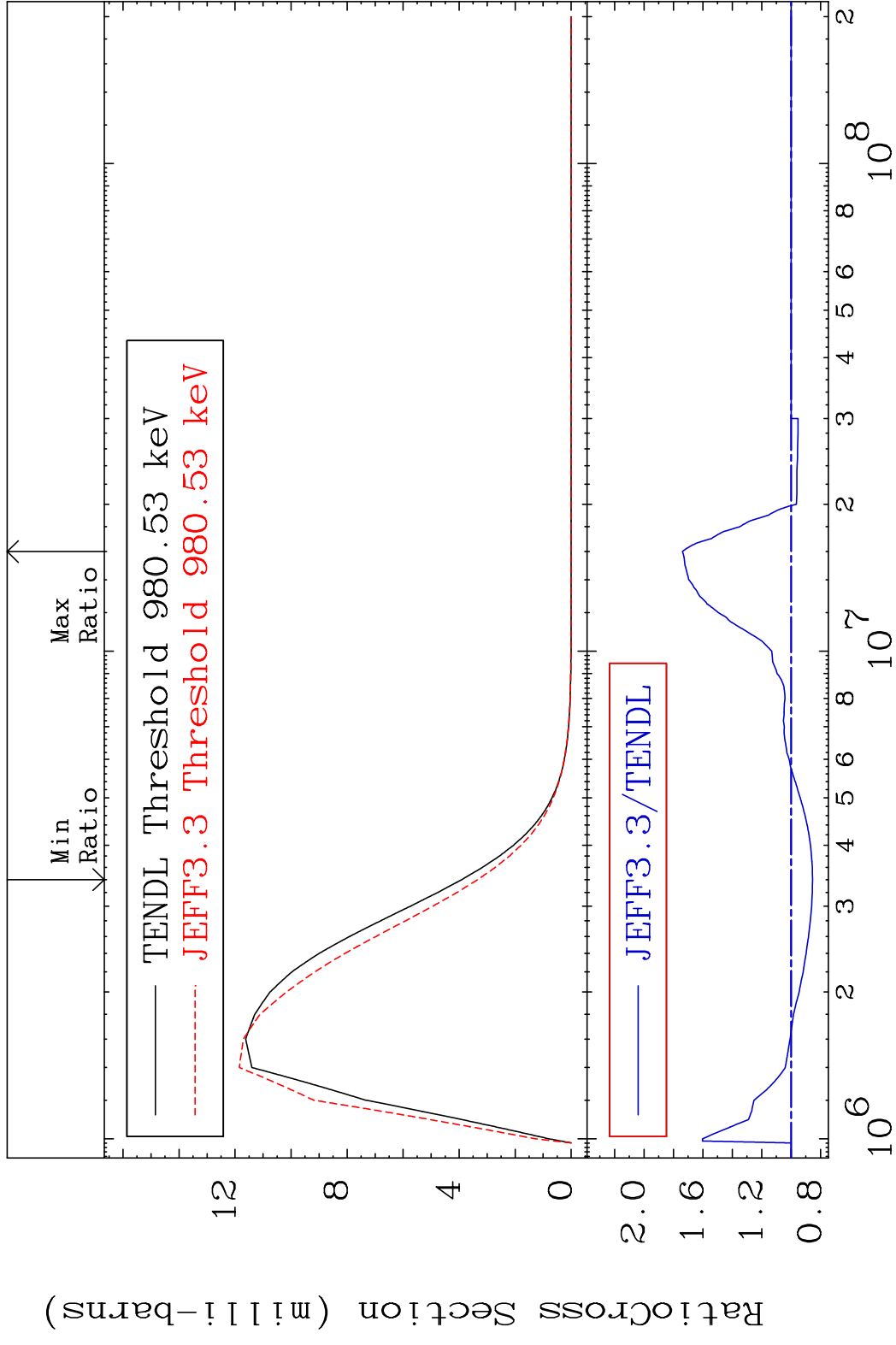
22 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 56 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 78.24 %

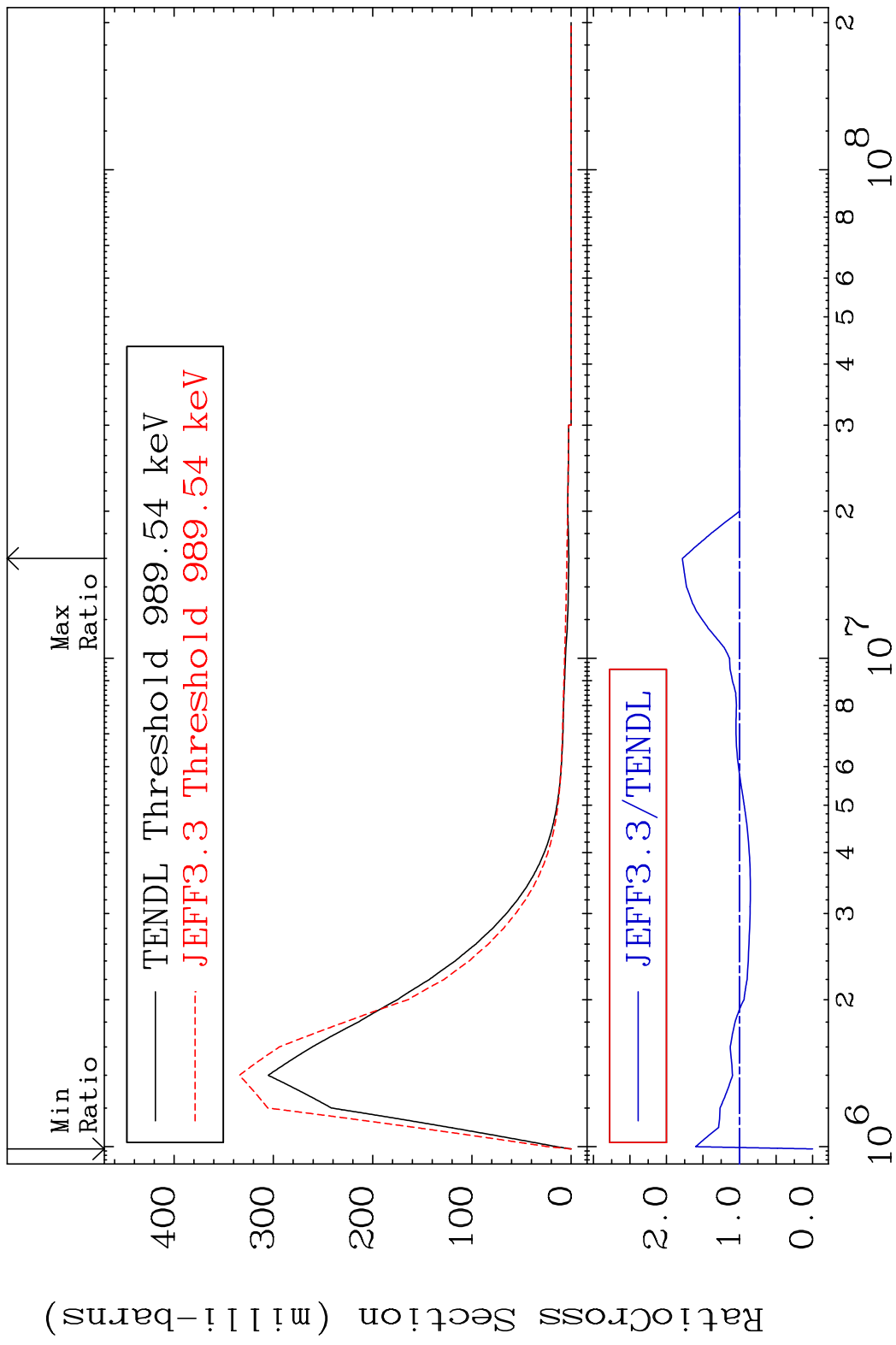


23 Incident Energy (eV) 41-Nb-93

MAT 4125 MT= 57 (n, n') Level 41-Nb-93
 Cross Section -14.61 To 73.91 %

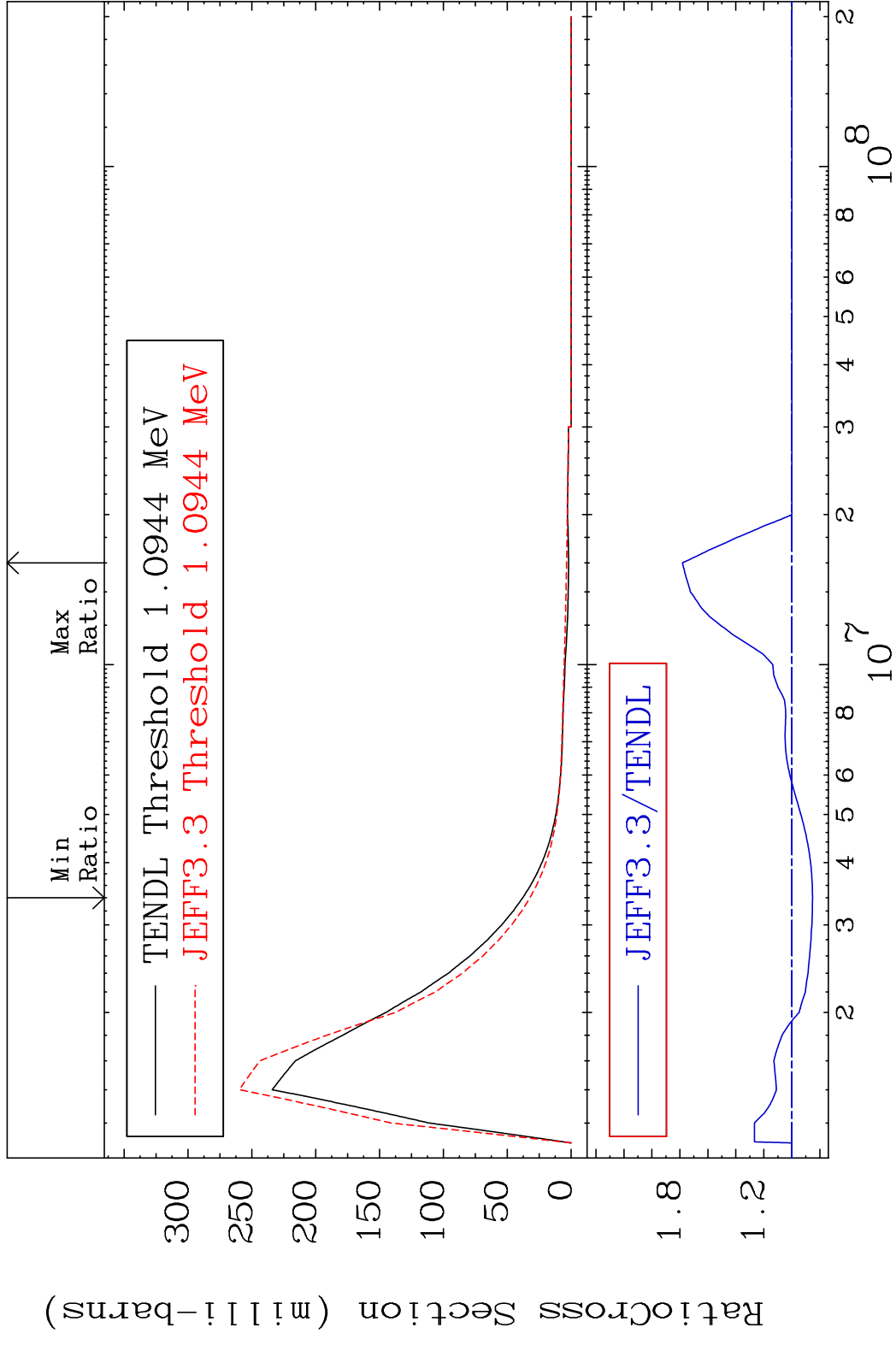


MAT 4125 MT= 58 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 78.24 %

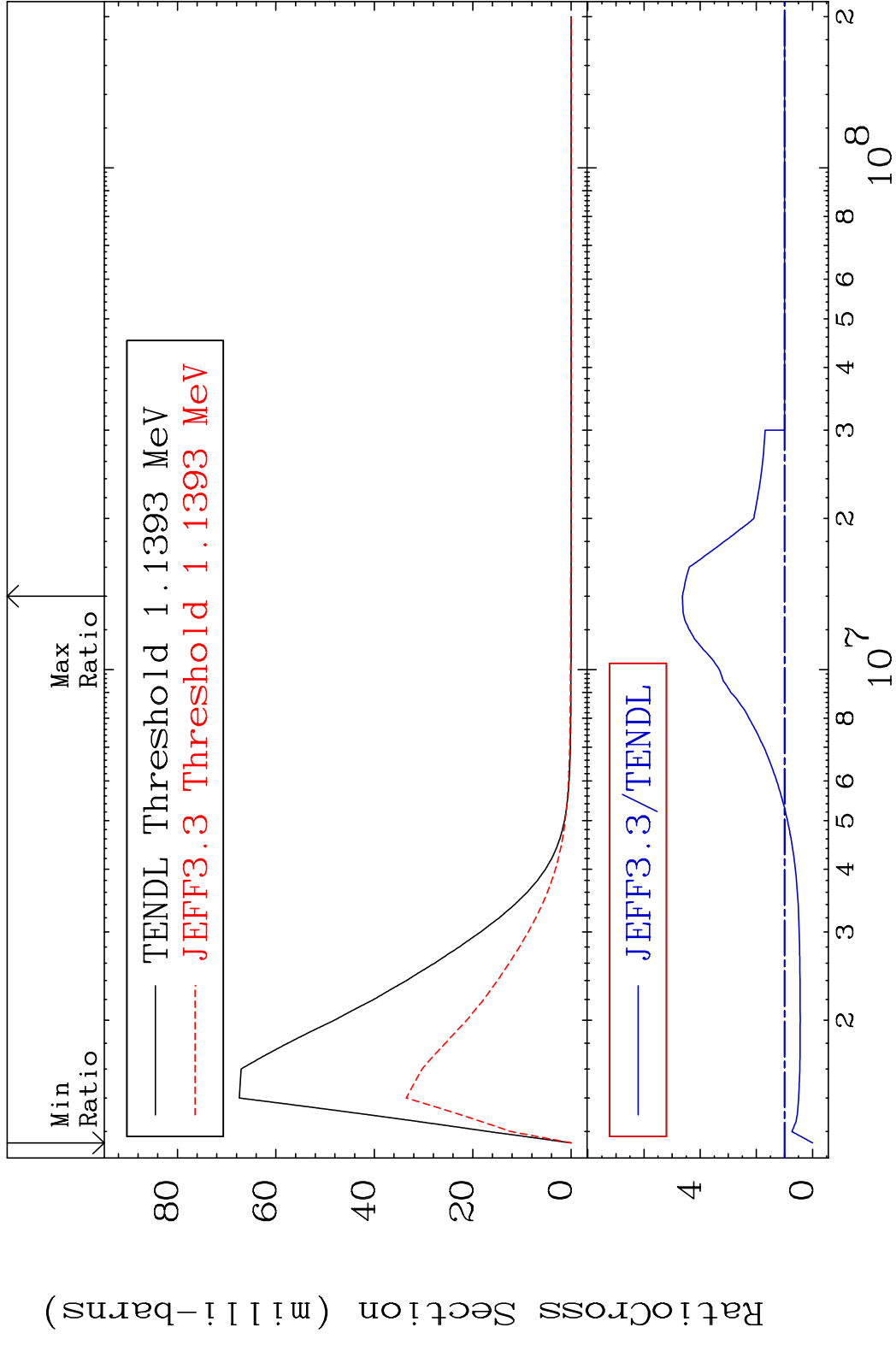


25 Incident Energy (eV) 41-Nb-93

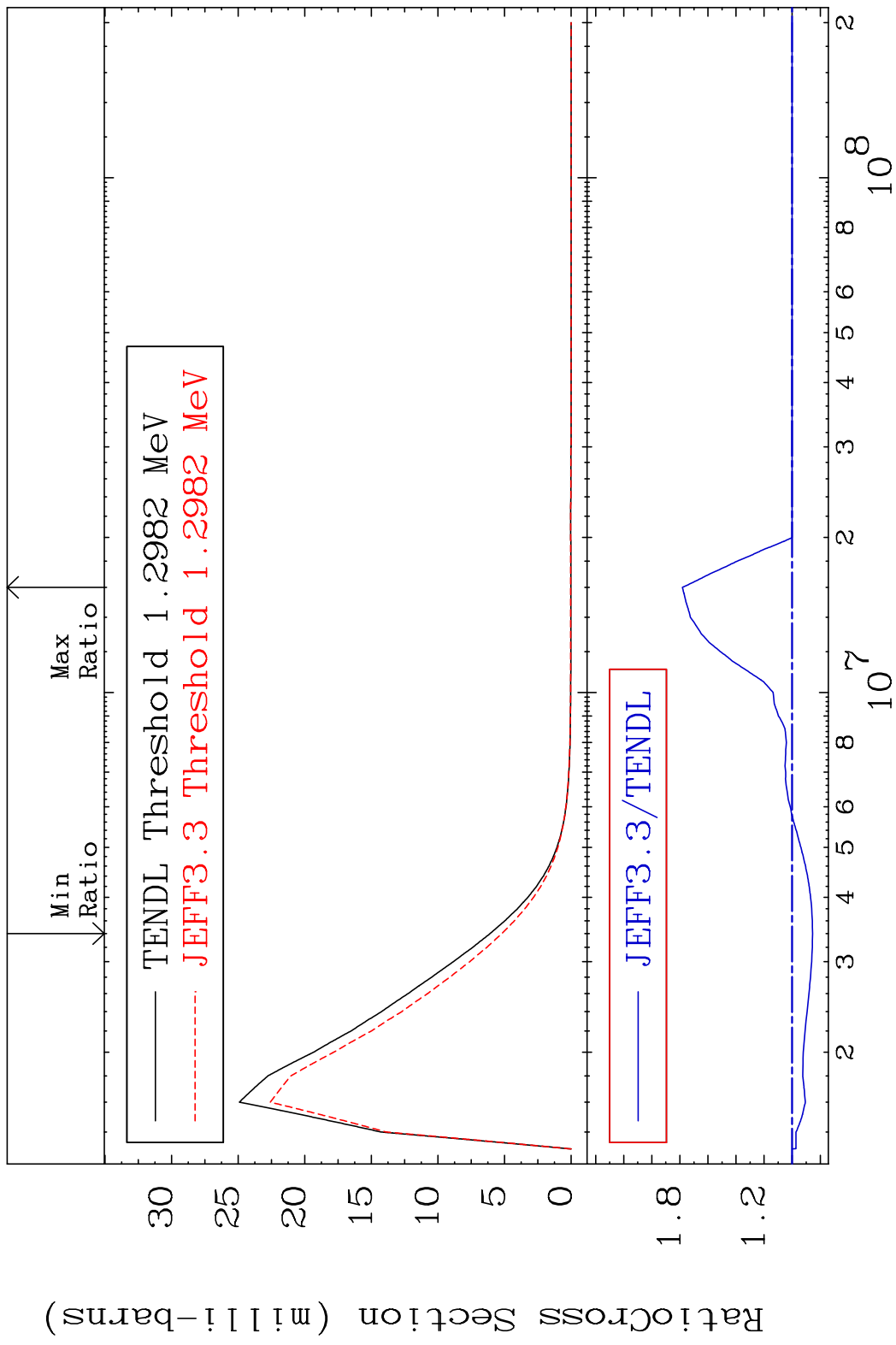
MAT 4125 MT= 59 (n, n') Level 41-Nb-93
 Cross Section -14.81 To 78.24 %



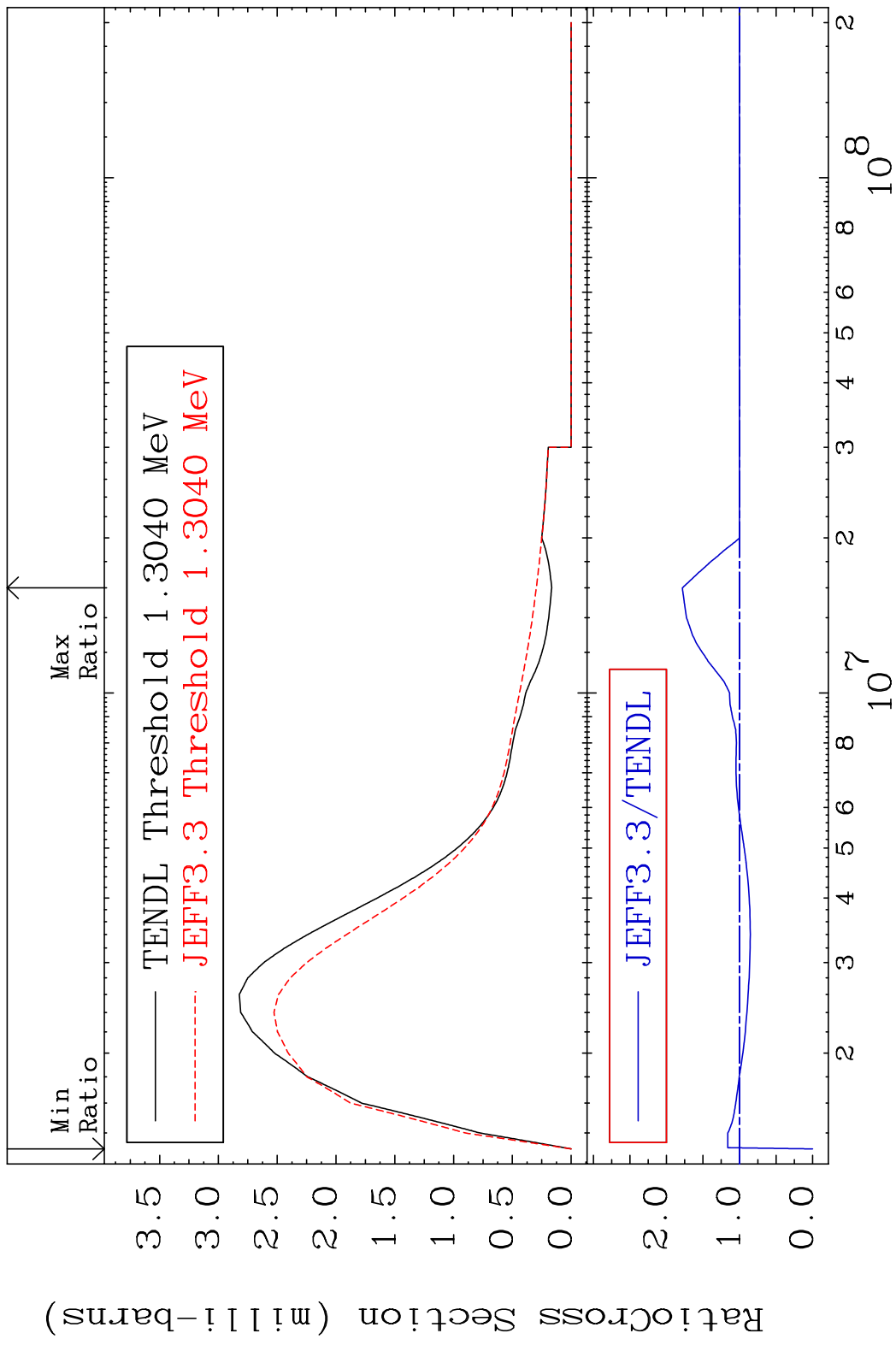
MAT 4125 MT= 60 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 363.6 %



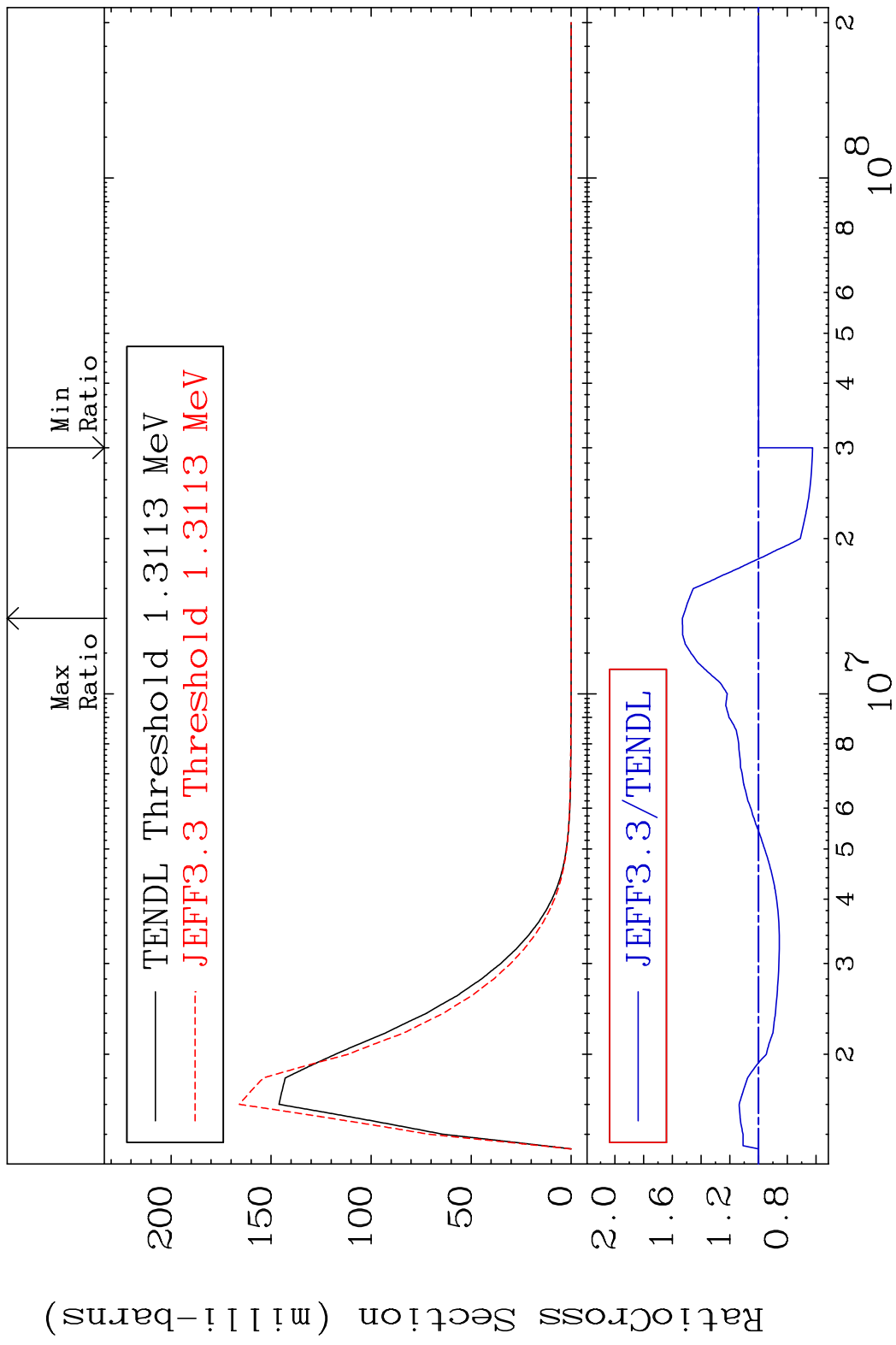
MAT 4125 MT= 61 (n, n') Level 41-Nb-93
 Cross Section -14.52 To 78.23 %



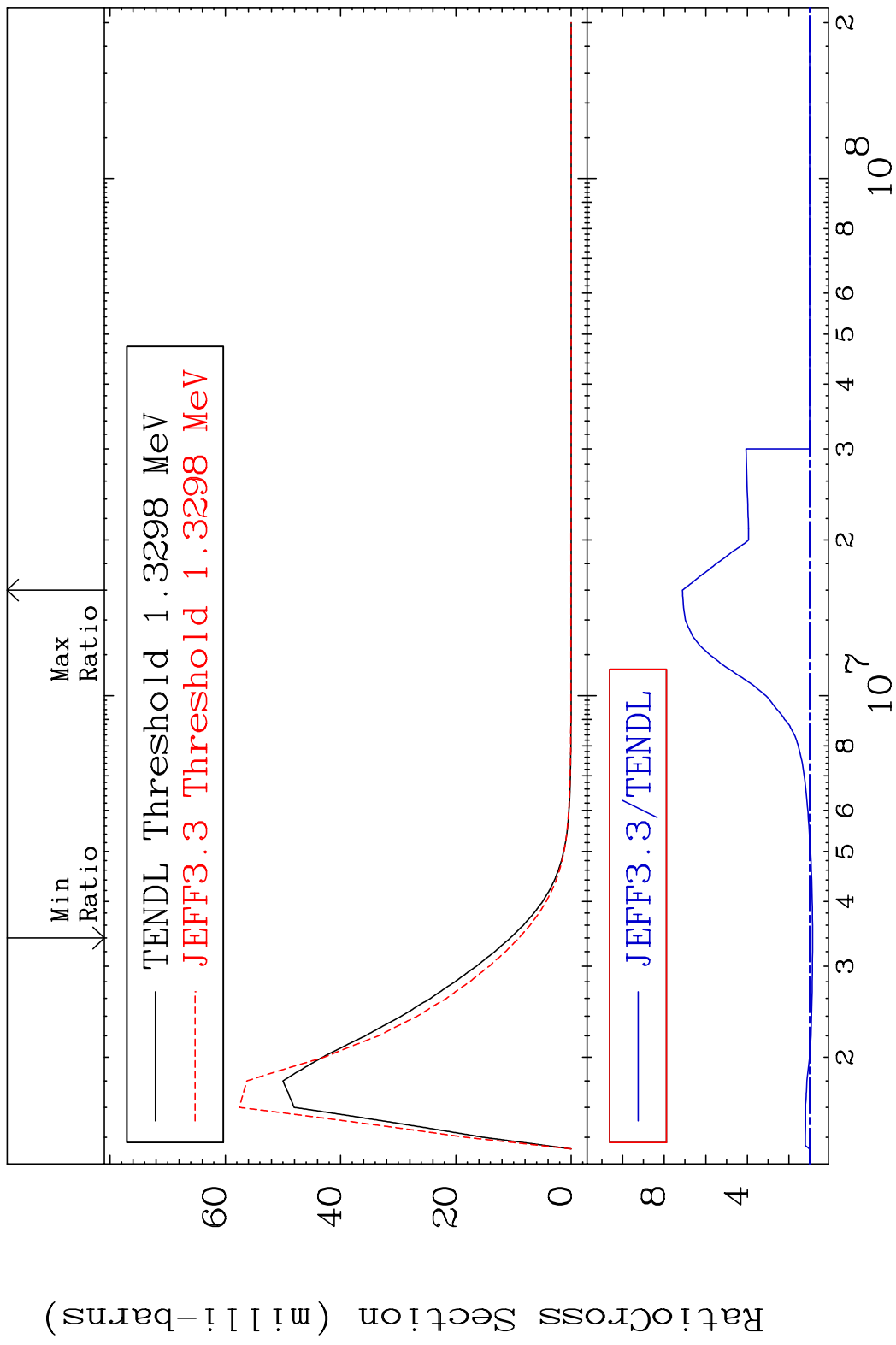
MAT 4125 MT= 62 (n, n') Level 41-Nb-93
 Cross Section -100.0 To 78.24 %



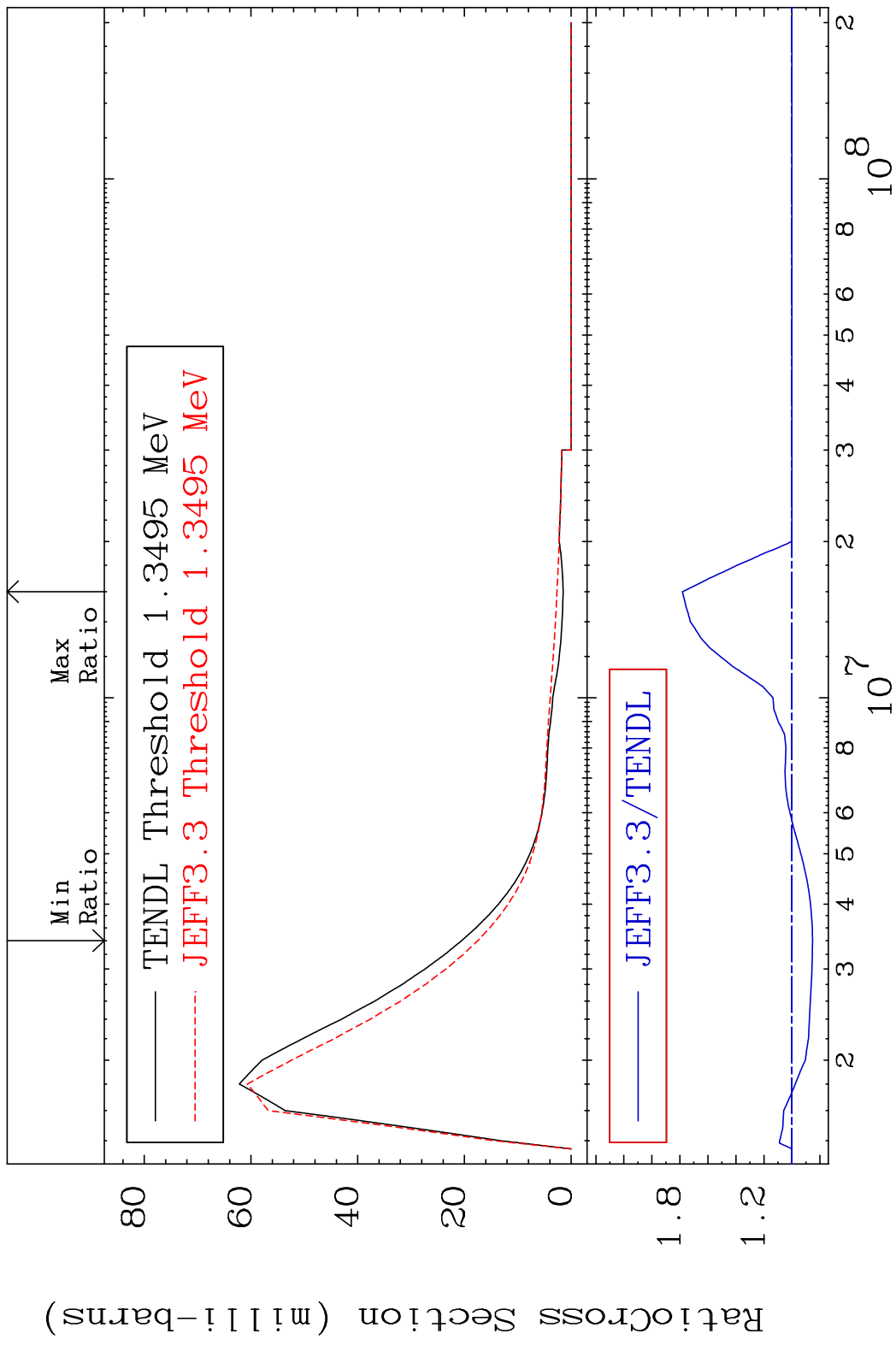
MAT 4125 MT= 63 (n, n') Level 41-Nb-93
 Cross Section -37.55 To 53.03 %



MAT 4125 MT= 64 (n, n') Level 41-Nb-93
 Cross Section -14.28 To 612.8 %

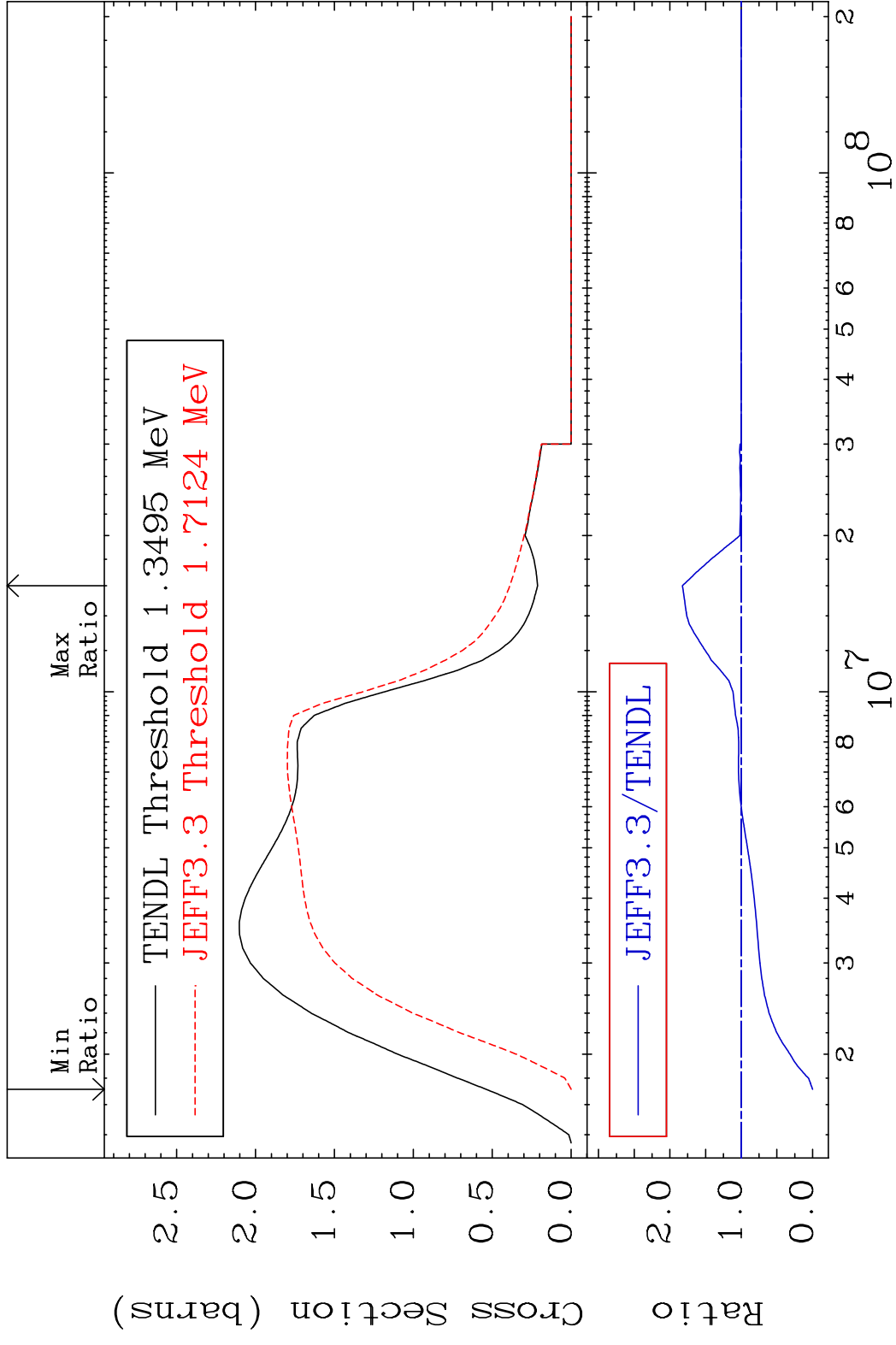


MAT 4125 MT= 65 (n, n') Level 41-Nb-93
 Cross Section -14.72 To 78.24 %



32 Incident Energy (eV) 41-Nb-93

MAT 4125 (n, n') Continuum 41-Nb-93
 Cross Section -100.0 To 82.53 %

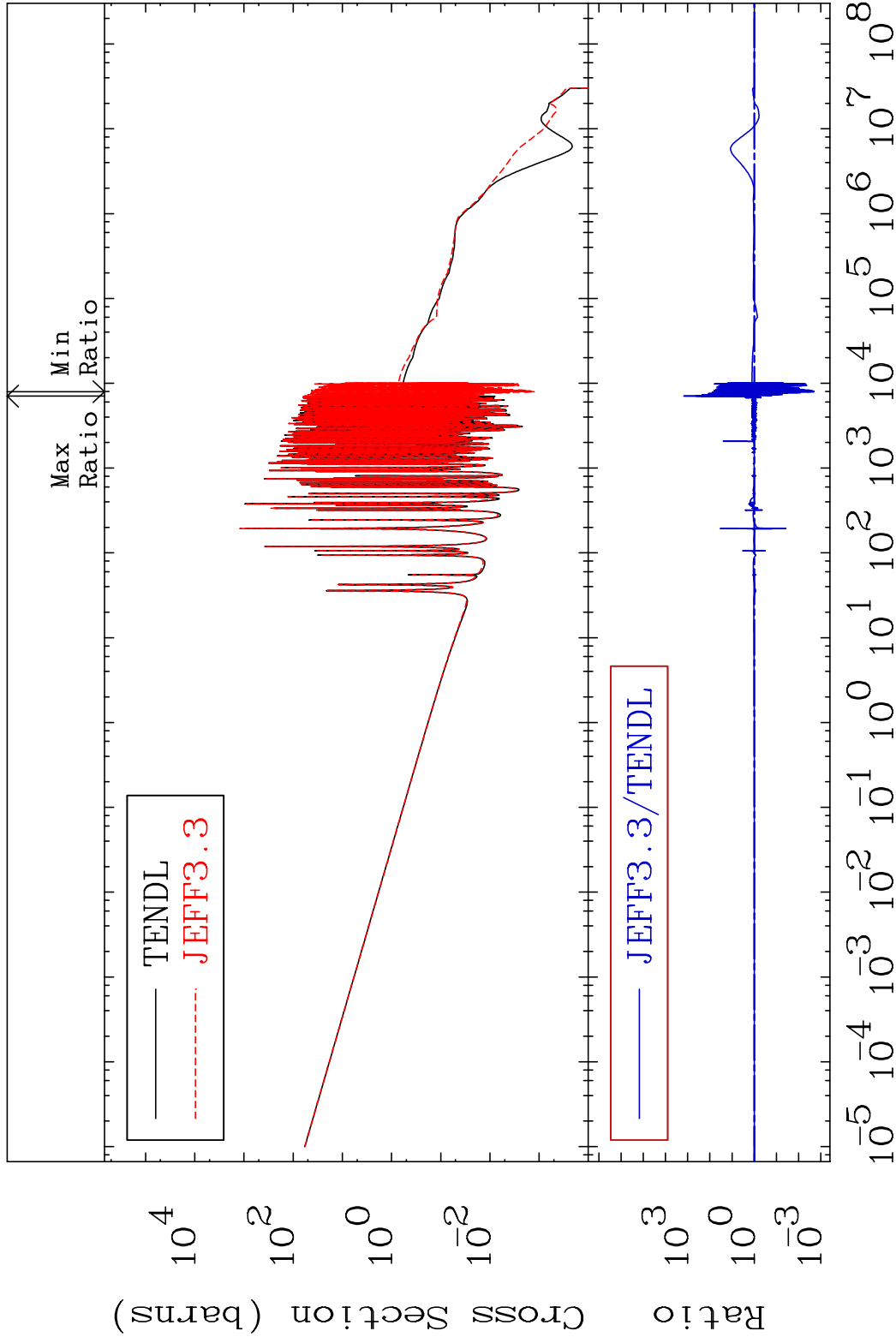


MAT 4125

(n, γ)

41-Nb-93

Cross Section -99.80 To 9999. %



34

Incident Energy (eV)

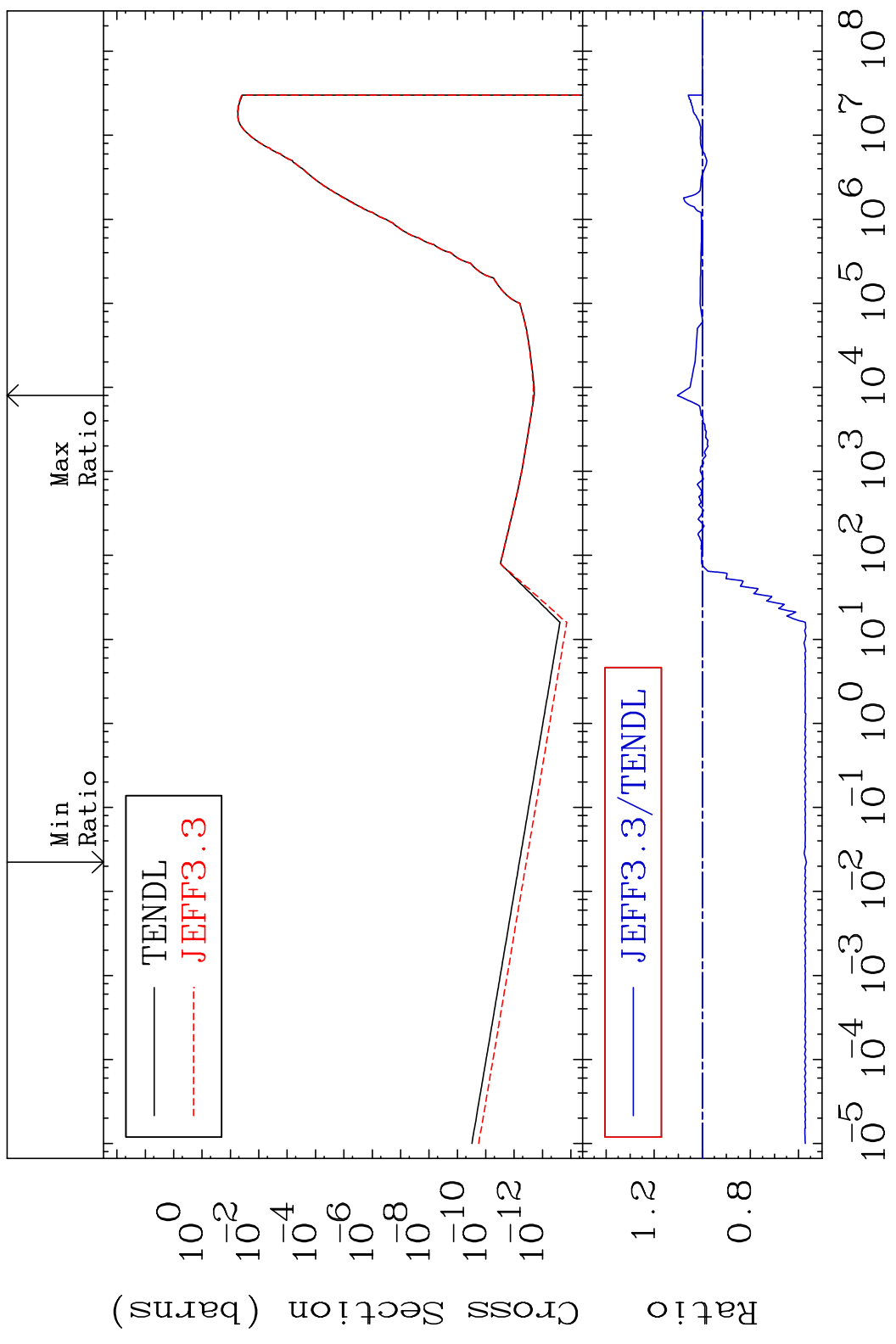
41-Nb-93

MAT 4125

(n, p)

41-Nb-93

Cross Section -43.28 To 10.45 %



35

Incident Energy (eV)

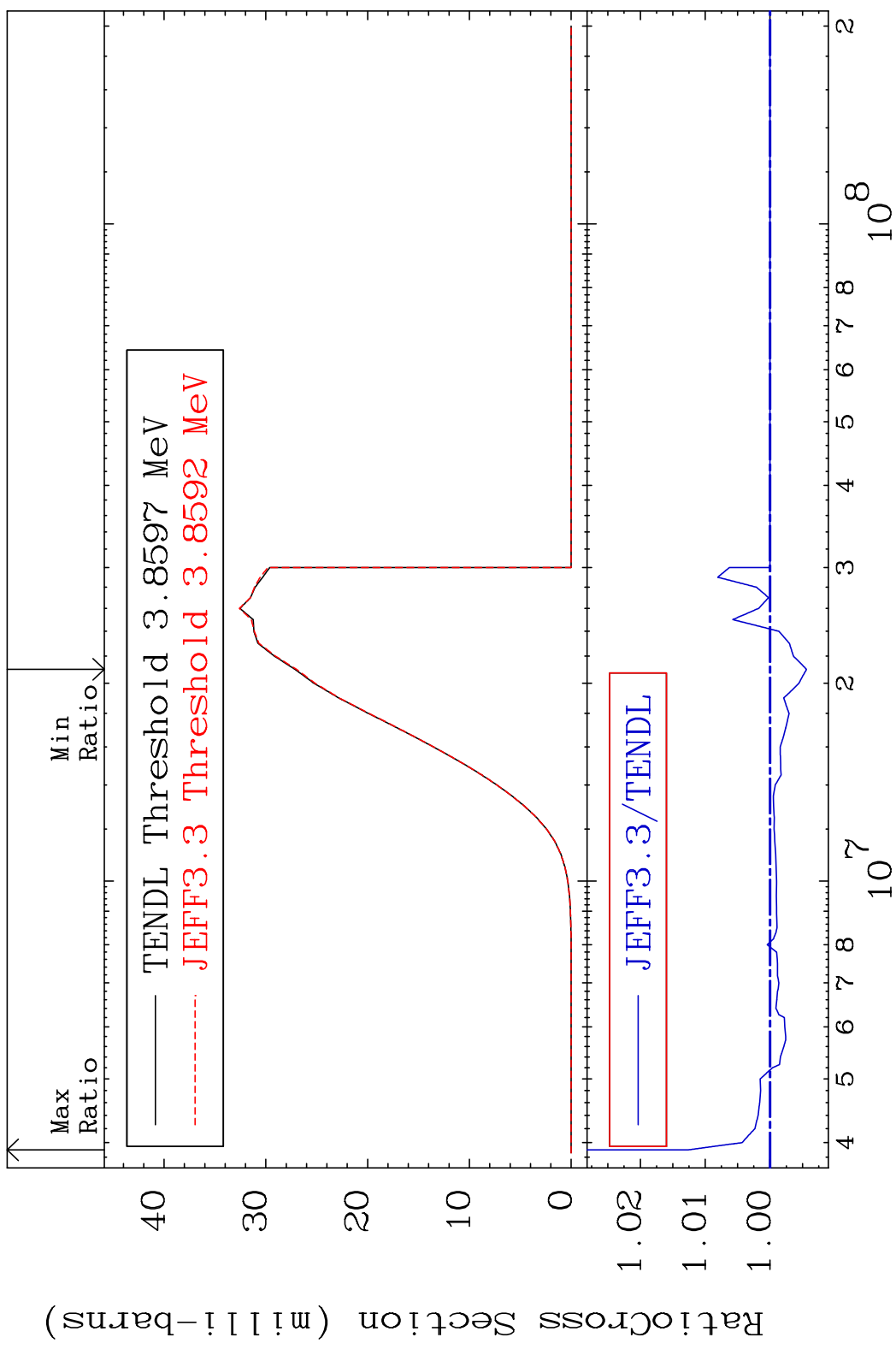
41-Nb-93

MAT 4125

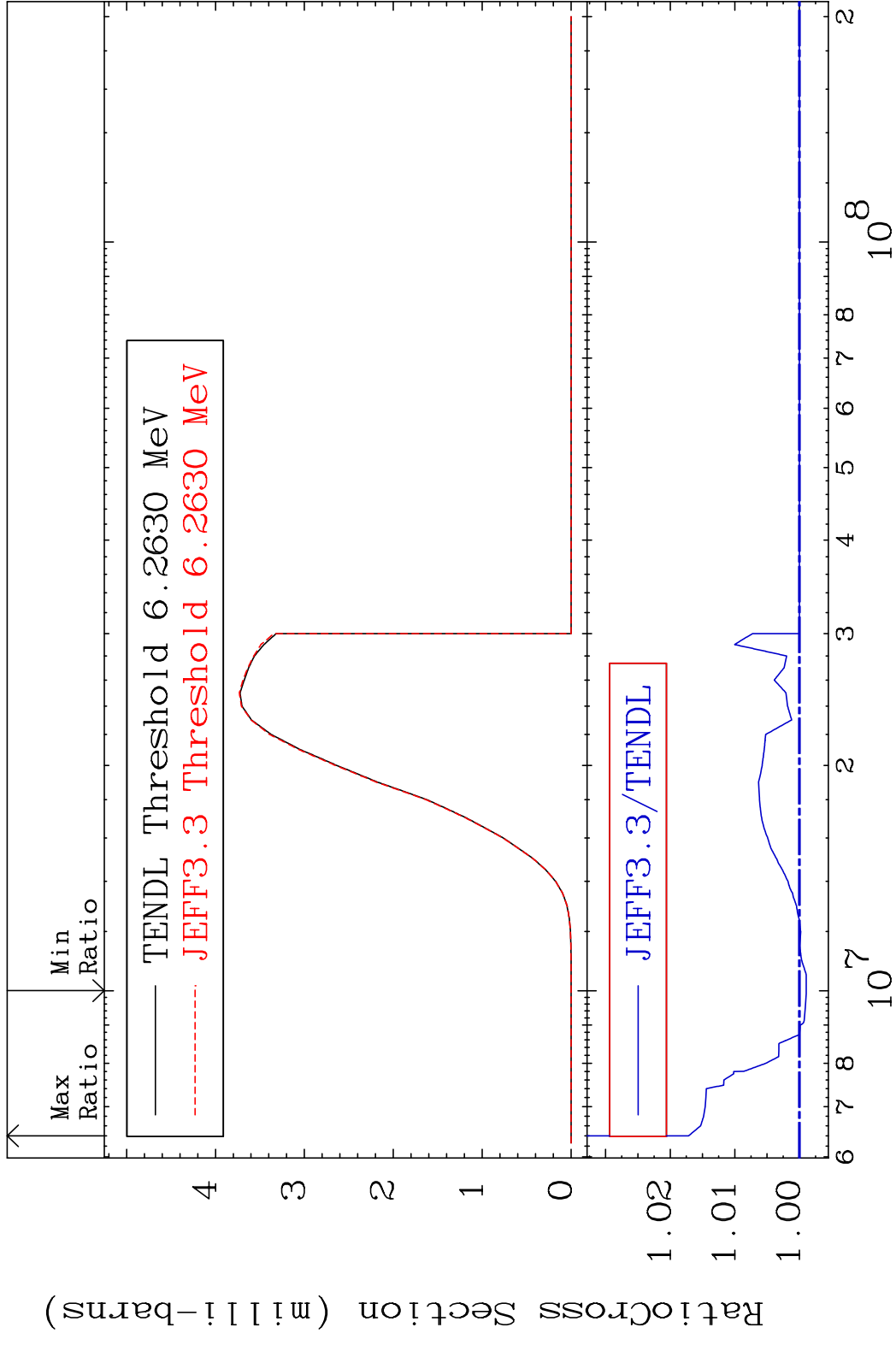
(n, d)

41-Nb-93

Cross Section -0.562 To 1.259 %



MAT 4125 (n, t) 41-Nb-93
 Cross Section -0.108 To 1.716 %

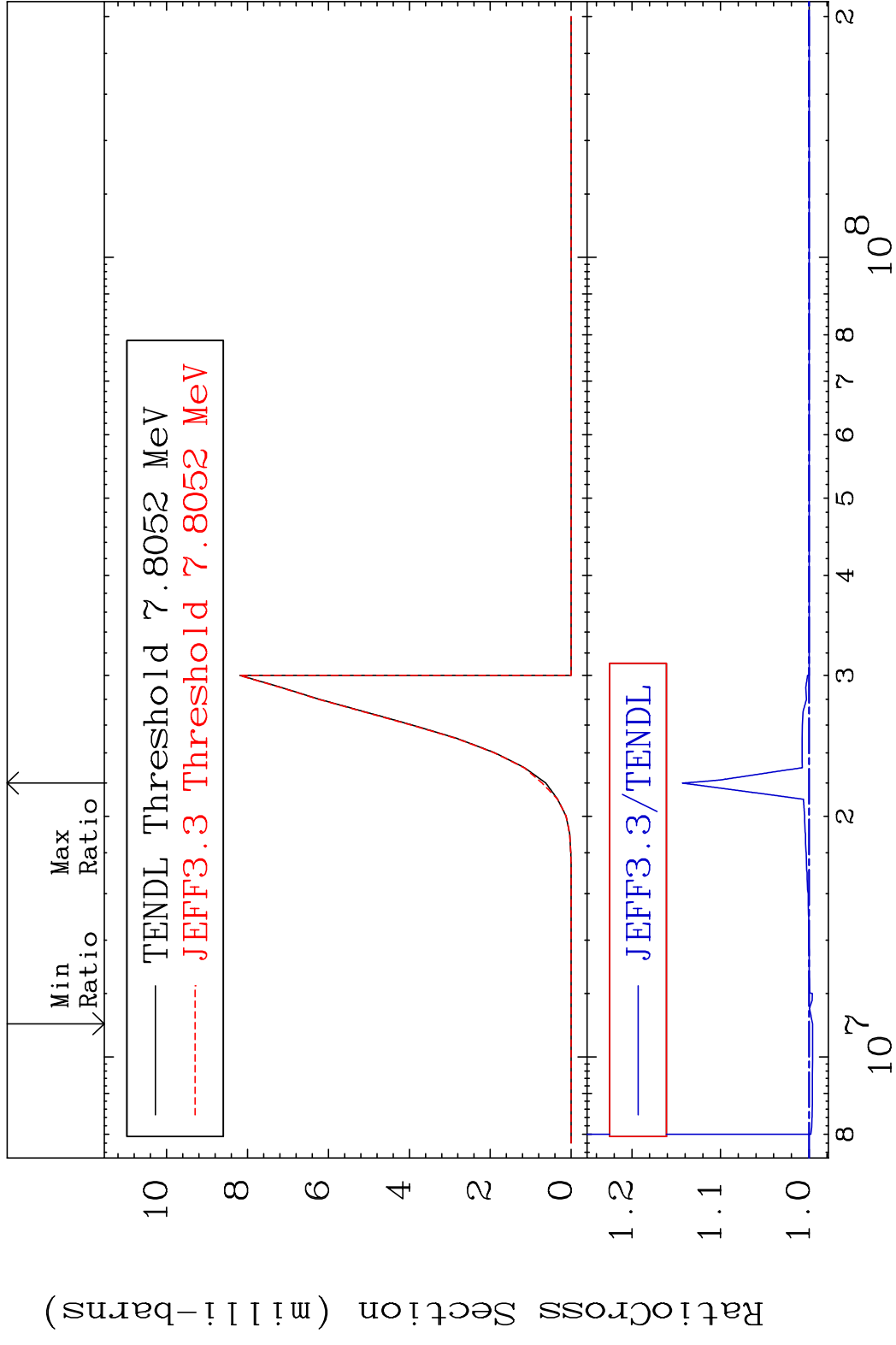


MAT 4125

(n, He-3)

41-Nb-93

Cross Section -0.386 To 14.31 %

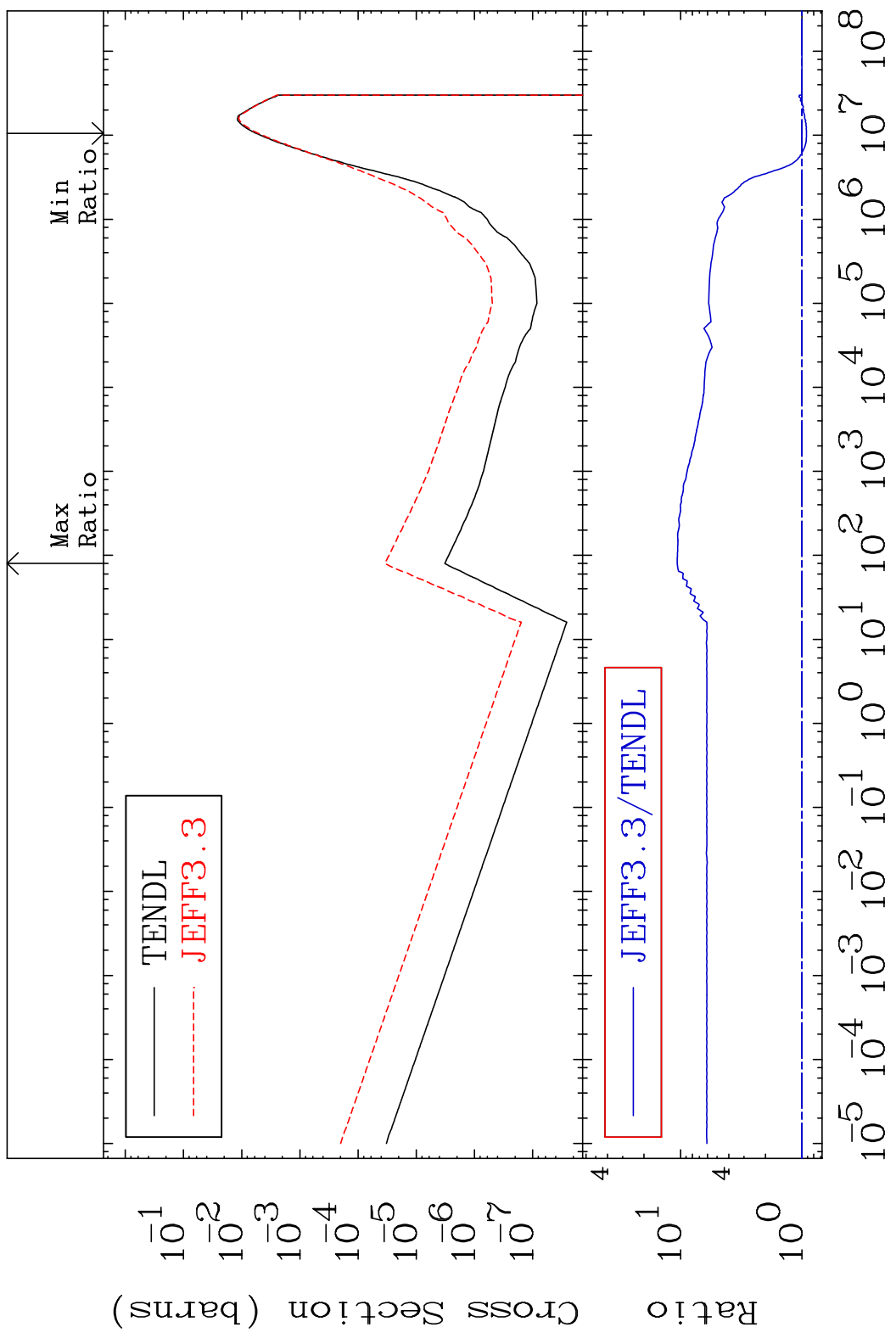


MAT 4125

(n, α)

41-Nb-93

Cross Section -8.003 To 966.2 %



39

Incident Energy (eV)

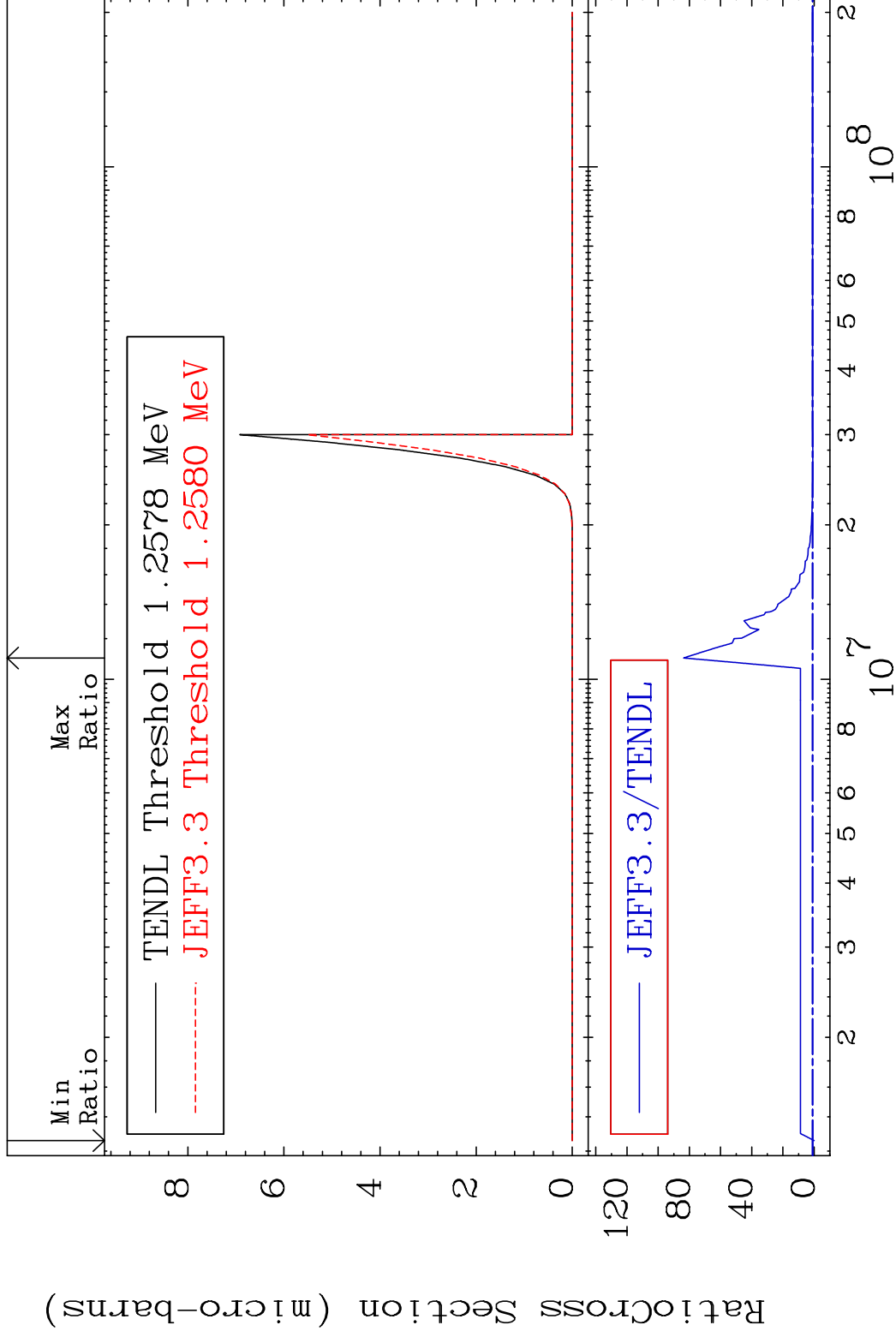
41-Nb-93

MAT 4125

(n,2α)

41-Nb-93

Cross Section -100.0 To 8267. %



40

Incident Energy (eV)

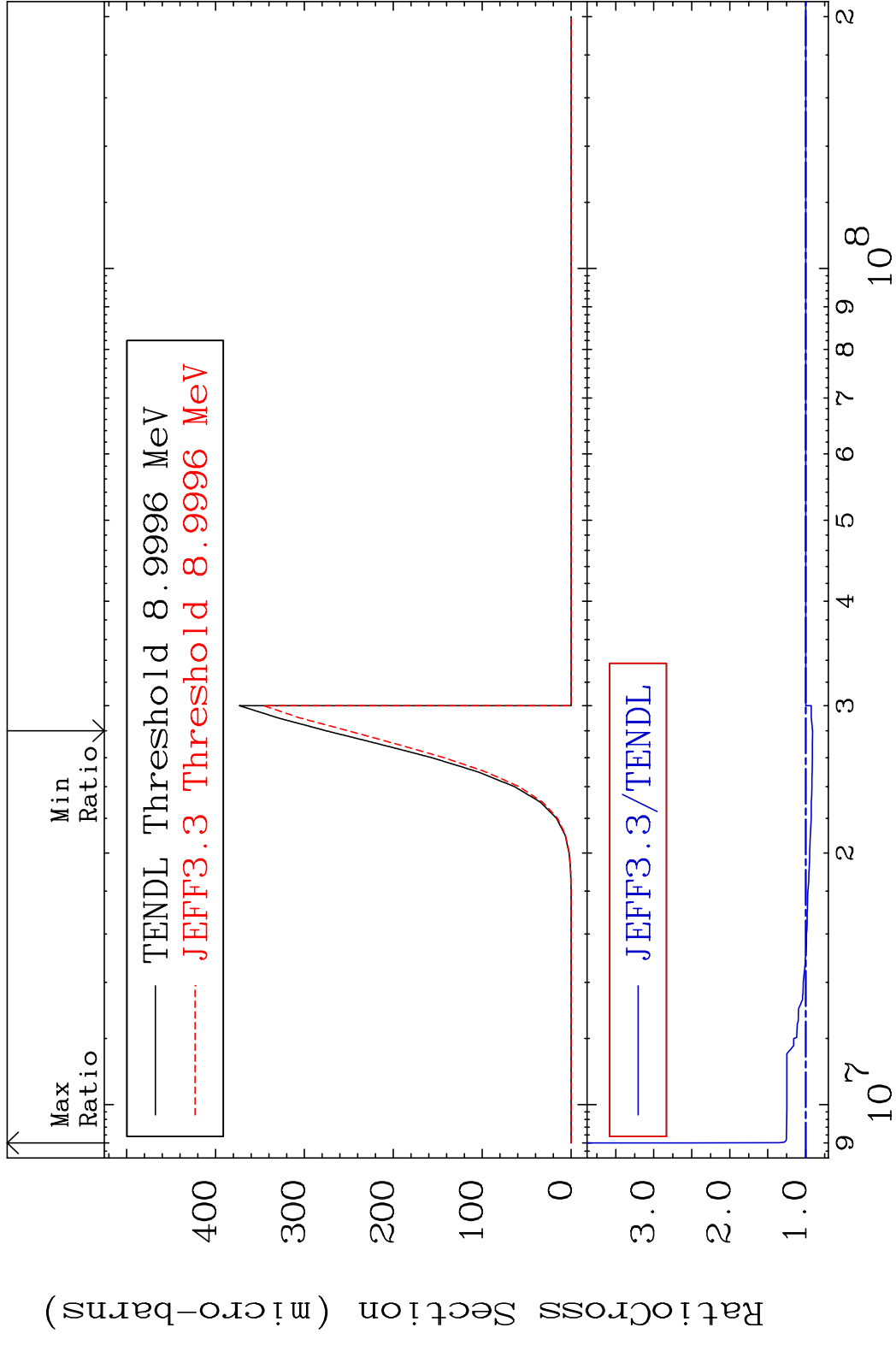
41-Nb-93

MAT 4125

(n,2p)

41-Nb-93

Cross Section -9.024 To 162.4 %



41

Incident Energy (eV)

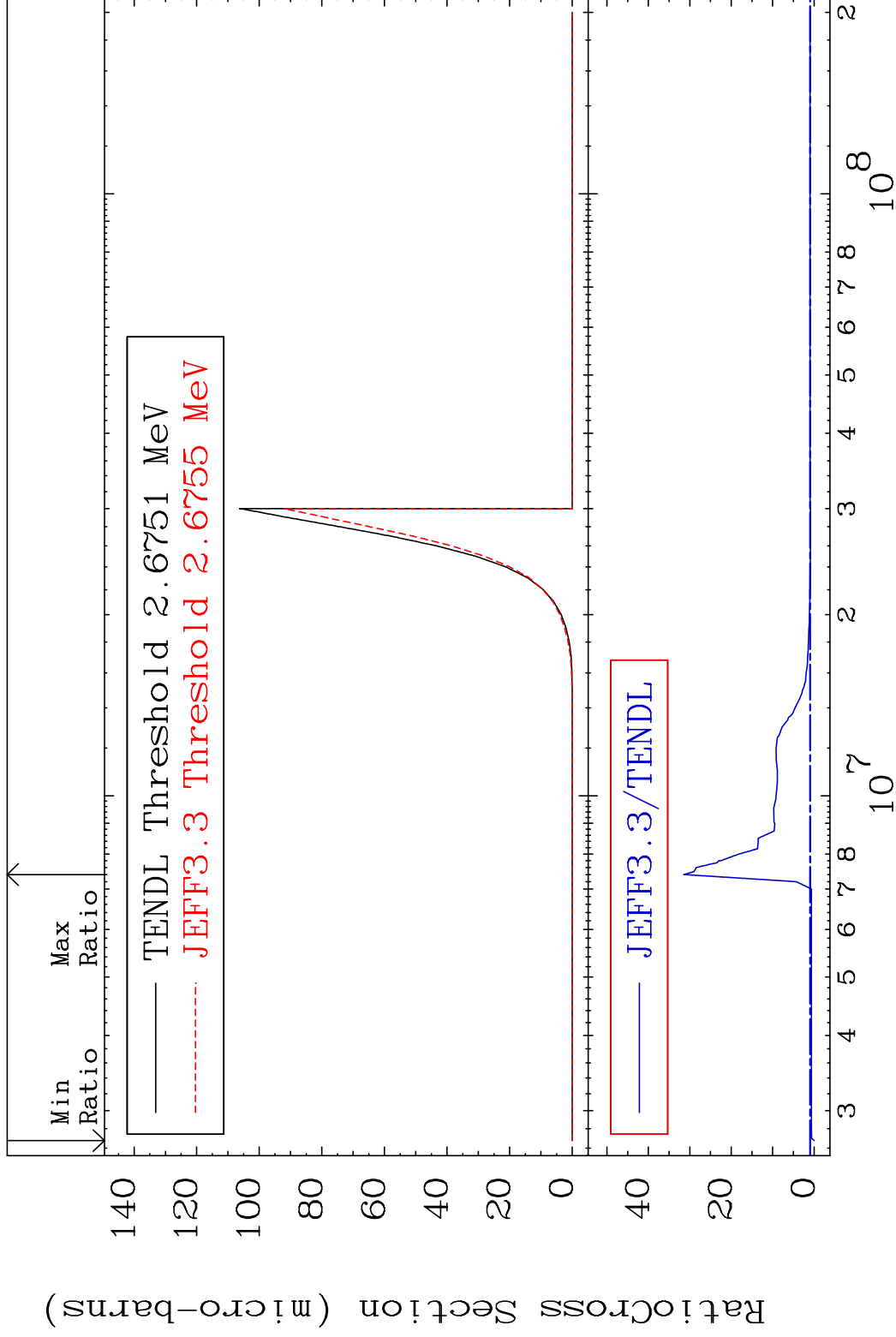
41-Nb-93

MAT 4125

(n,p) α

41-Nb-93

Cross Section -100.0 To 3048. %



42

Incident Energy (eV)

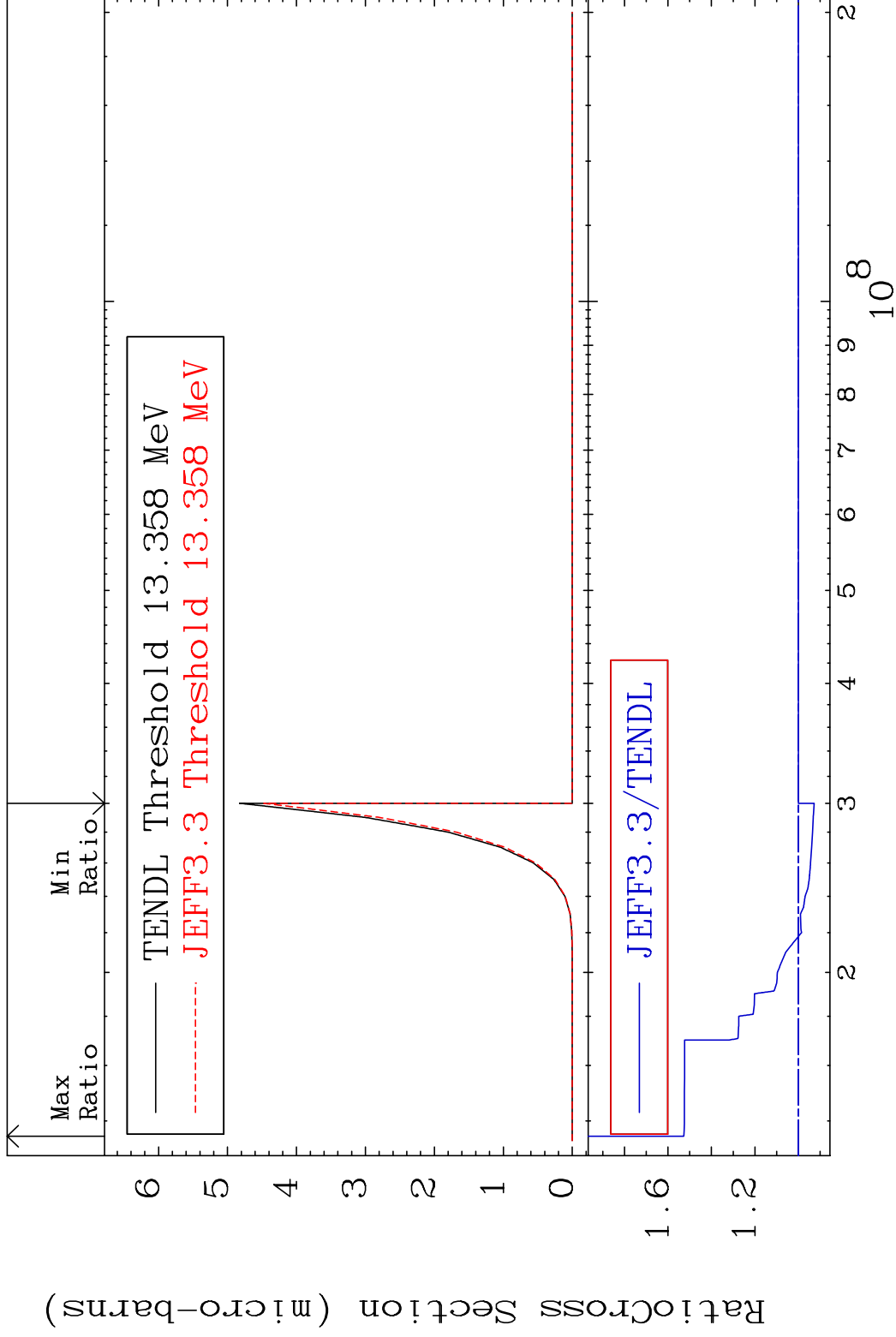
41-Nb-93

MAT 4125

(n,p) d

41-Nb-93

Cross Section -7.263 To 52.79 %



43

Incident Energy (eV)

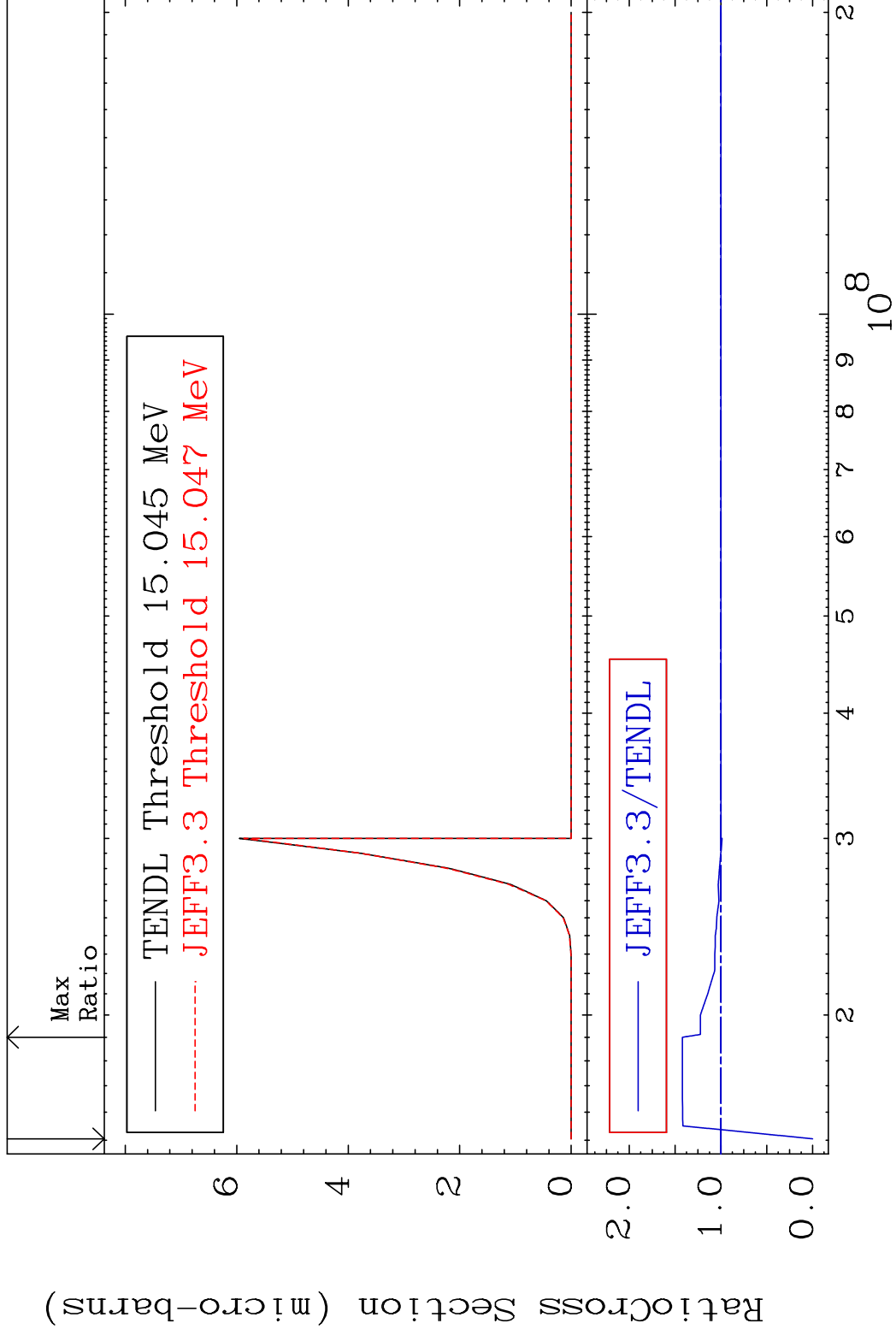
41-Nb-93

MAT 4125

(n,p) t

41-Nb-93

Cross Section -100.0 To 42.07 %



44

Incident Energy (eV)

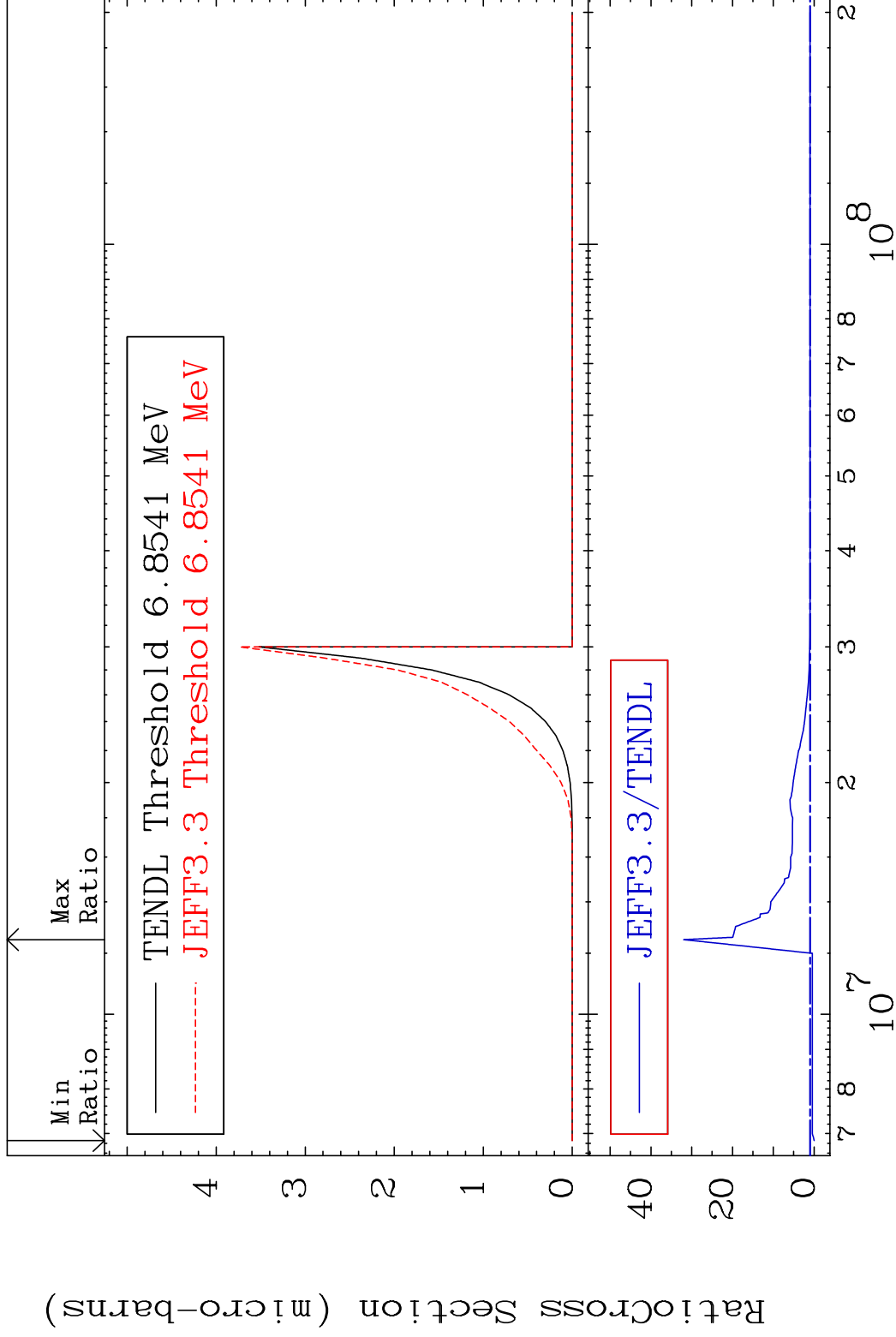
41-Nb-93

MAT 4125

(n,d) α

41-Nb-93

Cross Section -100.0 To 3097. %



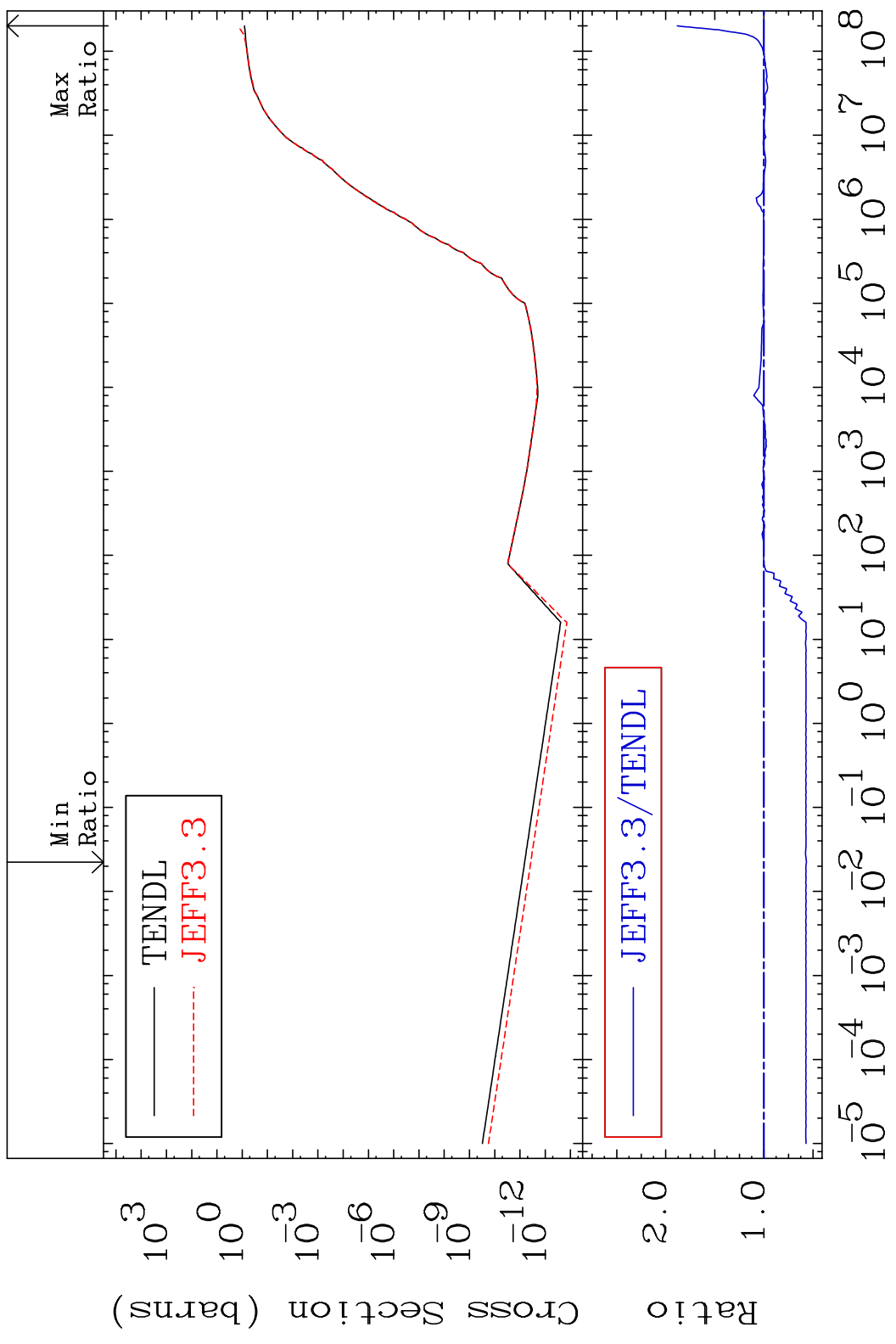
45

Incident Energy (eV)

41-Nb-93

MAT 4125

Hydrogen Production 41-Nb-93
Cross Section -43.28 To 88.38 %



46

Incident Energy (eV)

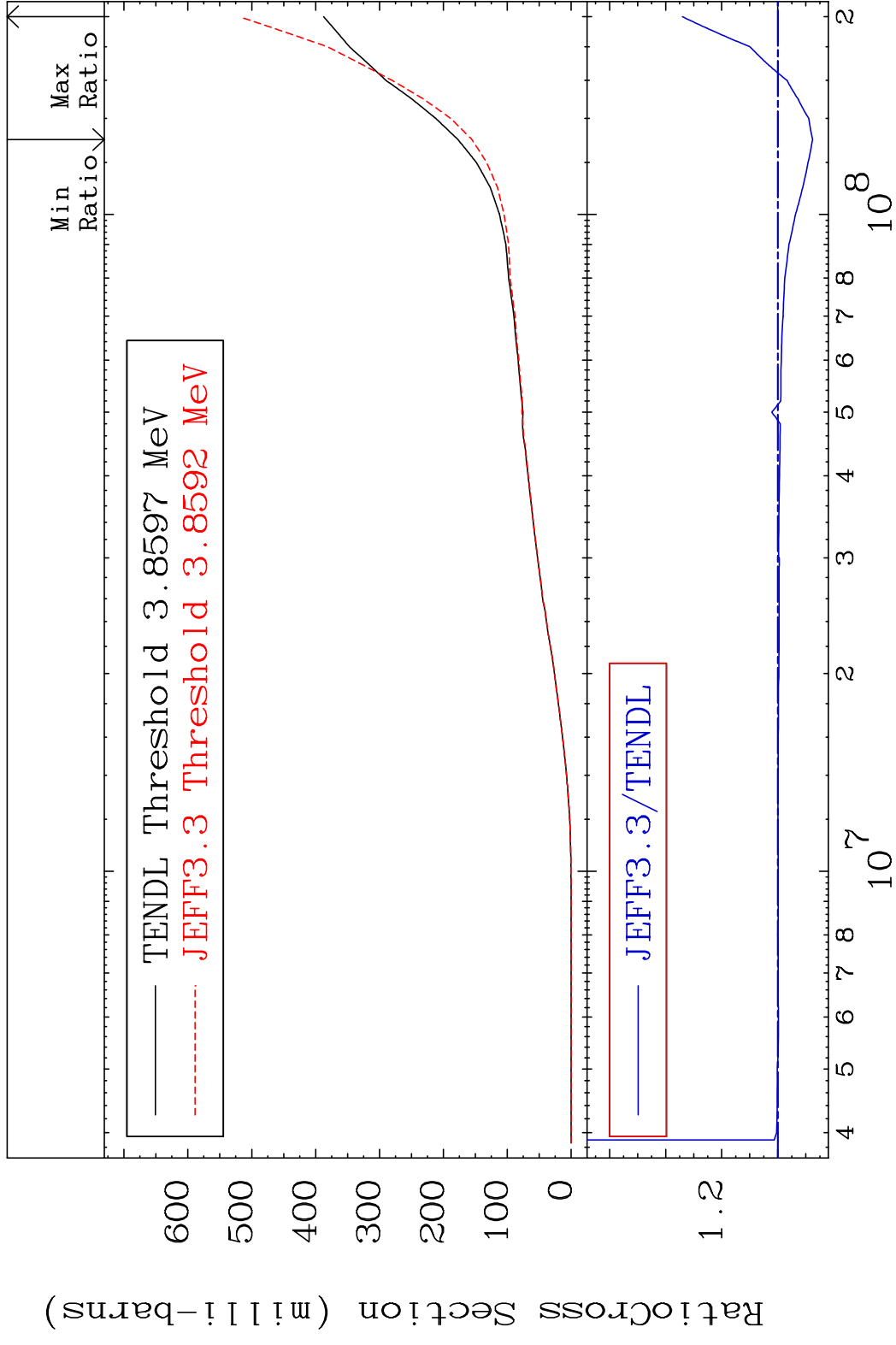
41-Nb-93

MAT 4125

Deuterium Production

41-Nb-93

Cross Section -12.40 To 34.04 %



47

Incident Energy (eV)

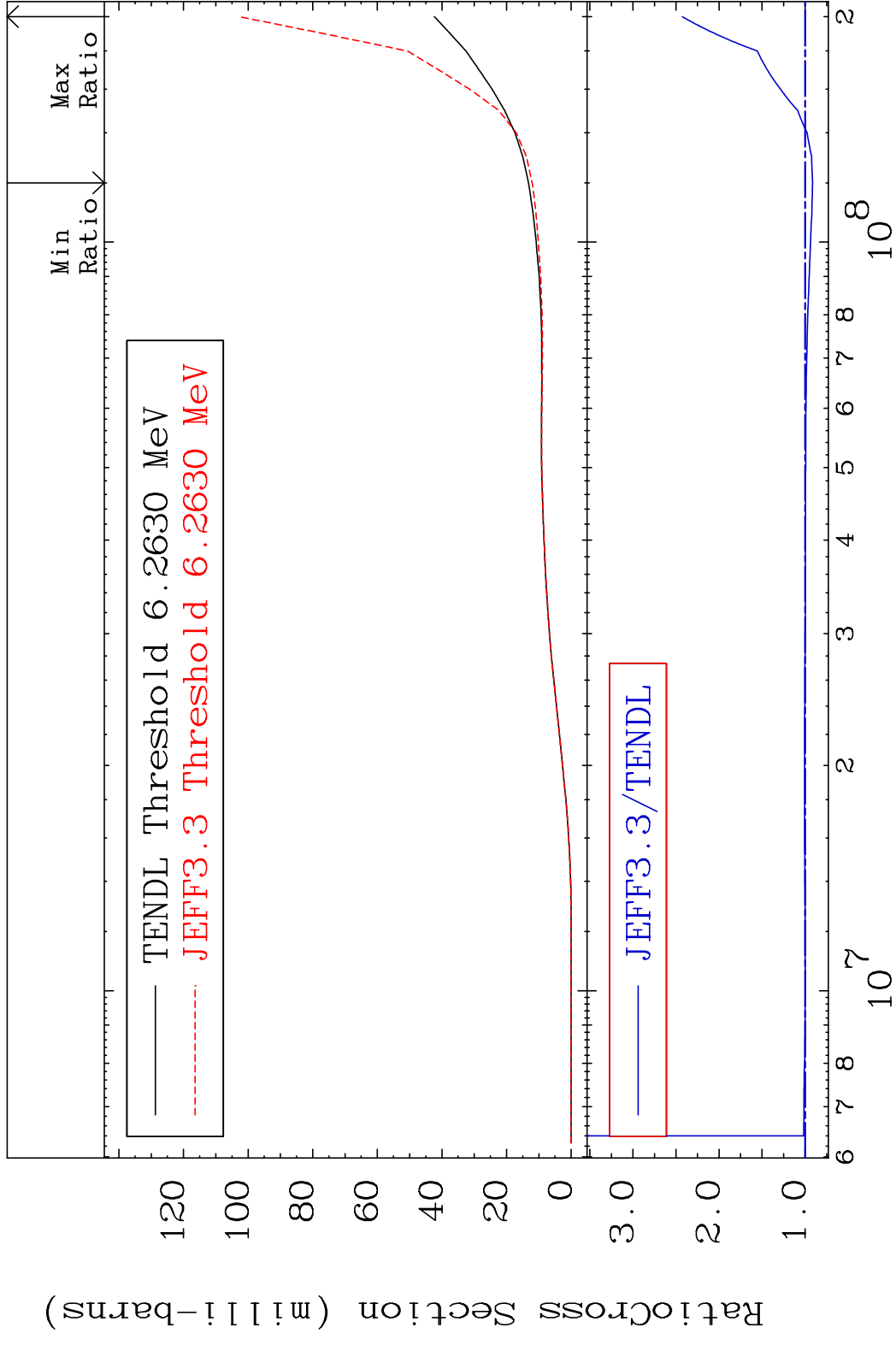
41-Nb-93

MAT 4125

Tritium Production

41-Nb-93

Cross Section -8.649 To 142.6 %



48

Incident Energy (eV)

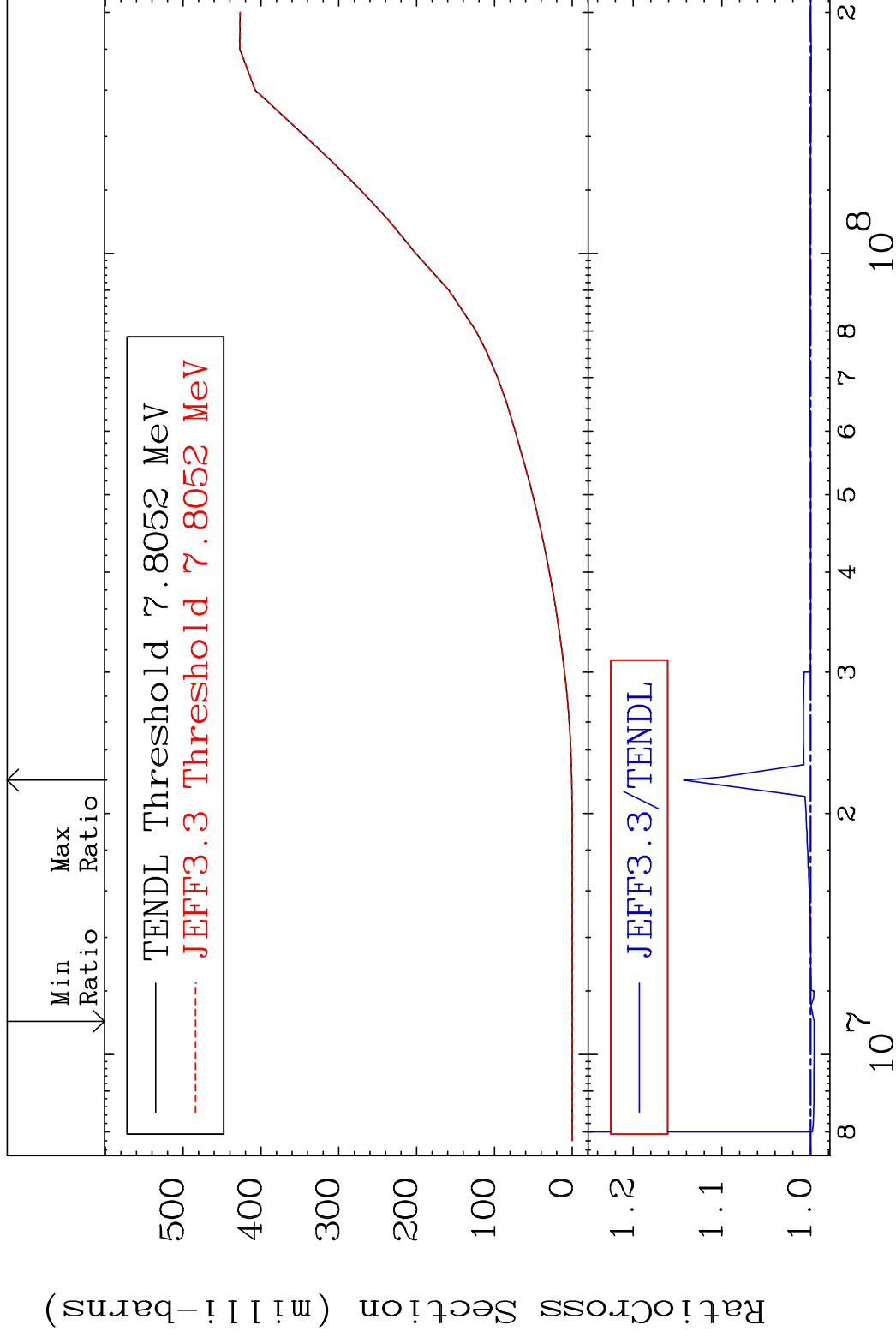
41-Nb-93

MAT 4125

He-3 Production

41-Nb-93

Cross Section -0.386 To 14.31 %



49

Incident Energy (eV)

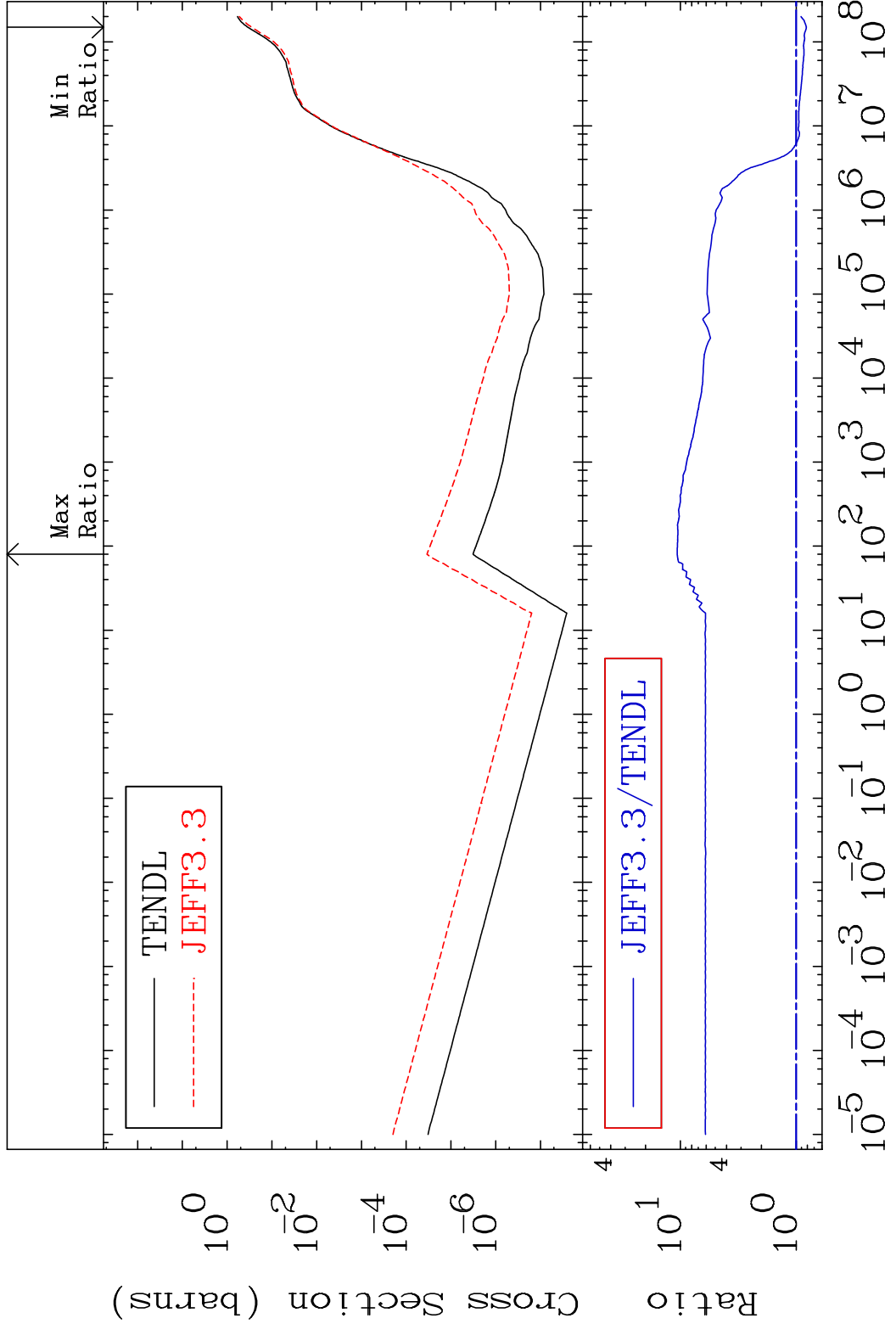
41-Nb-93

MAT 4125

He-4 Production

41-Nb-93

Cross Section -18.44 To 966.2 %



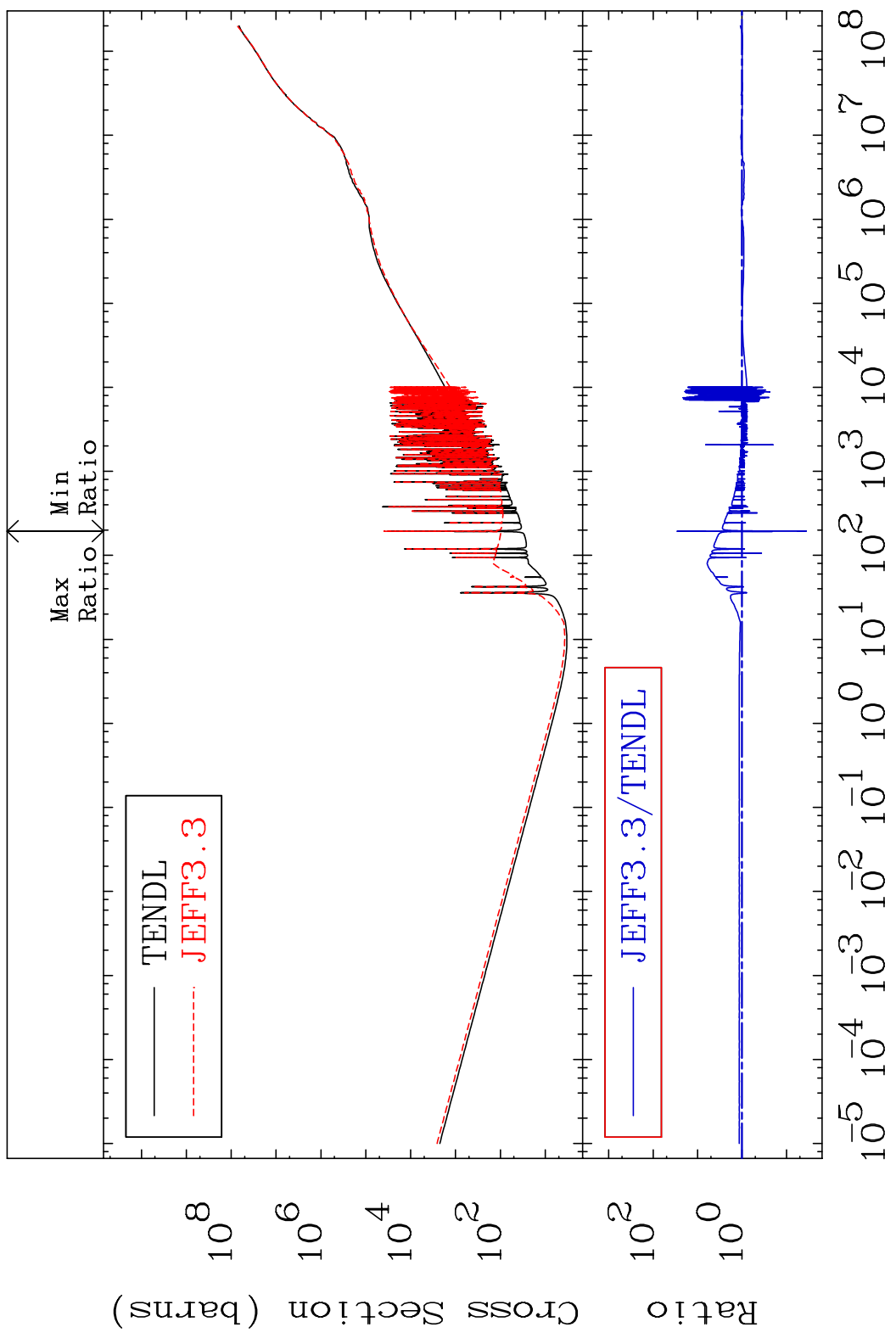
50

Incident Energy (eV)

41-Nb-93

MAT 4125

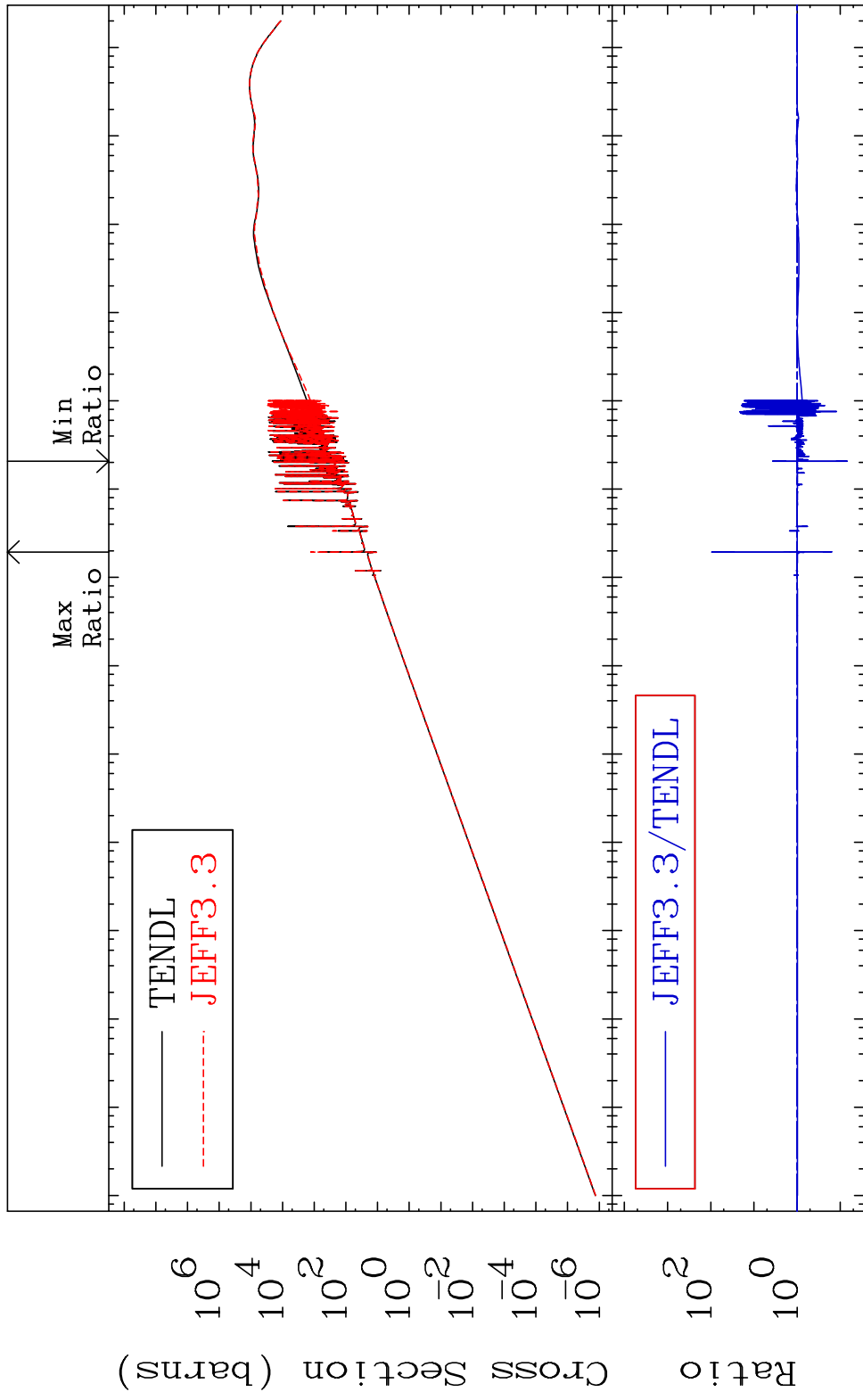
Kerma total (eV-barns) 41-Nb-93
Cross Section -96.45 To 2777. %



MAT 4125

Kerma elastic Cross Section -93.11 To 9488. %

41-Nb-93

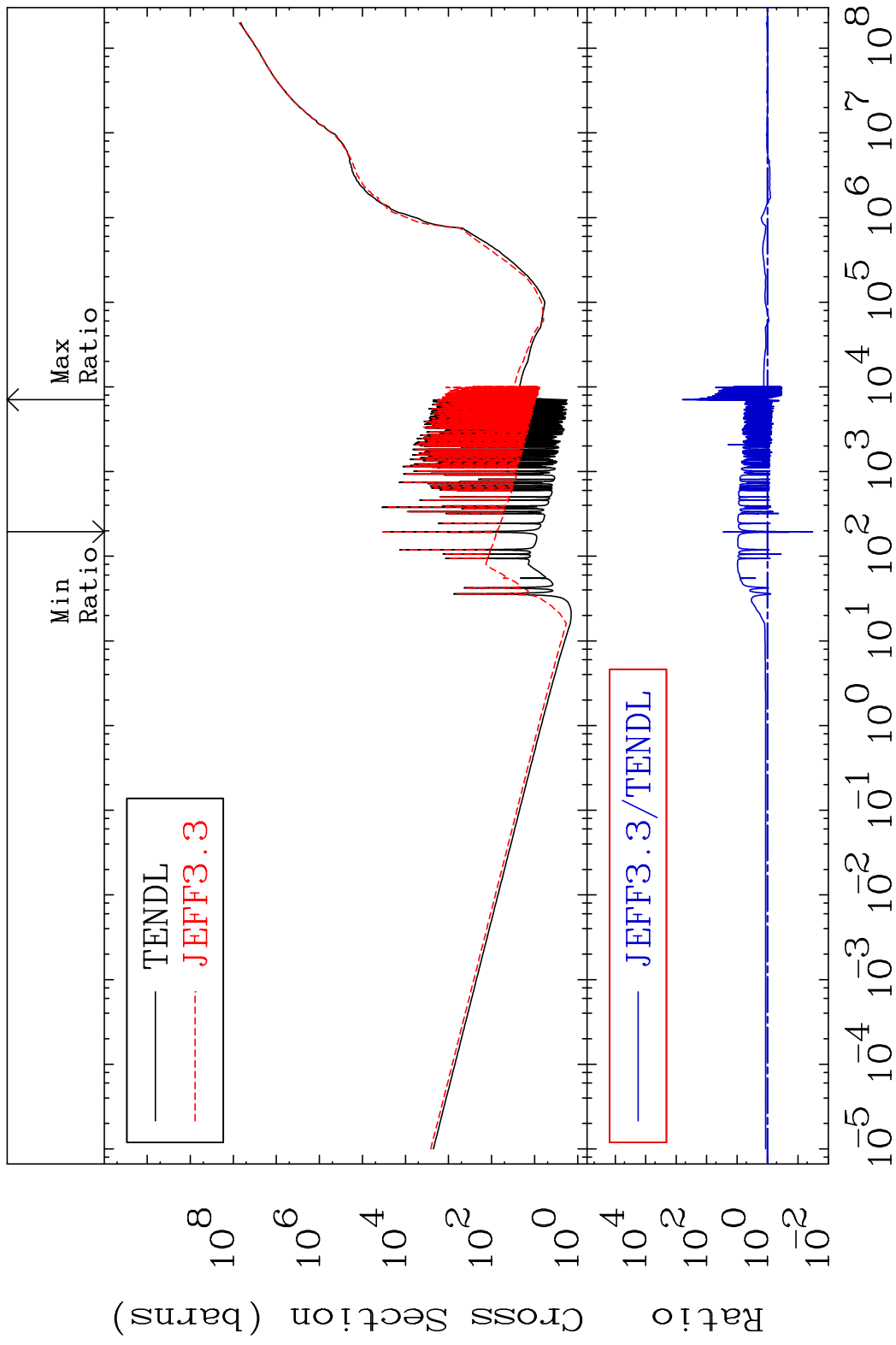


52

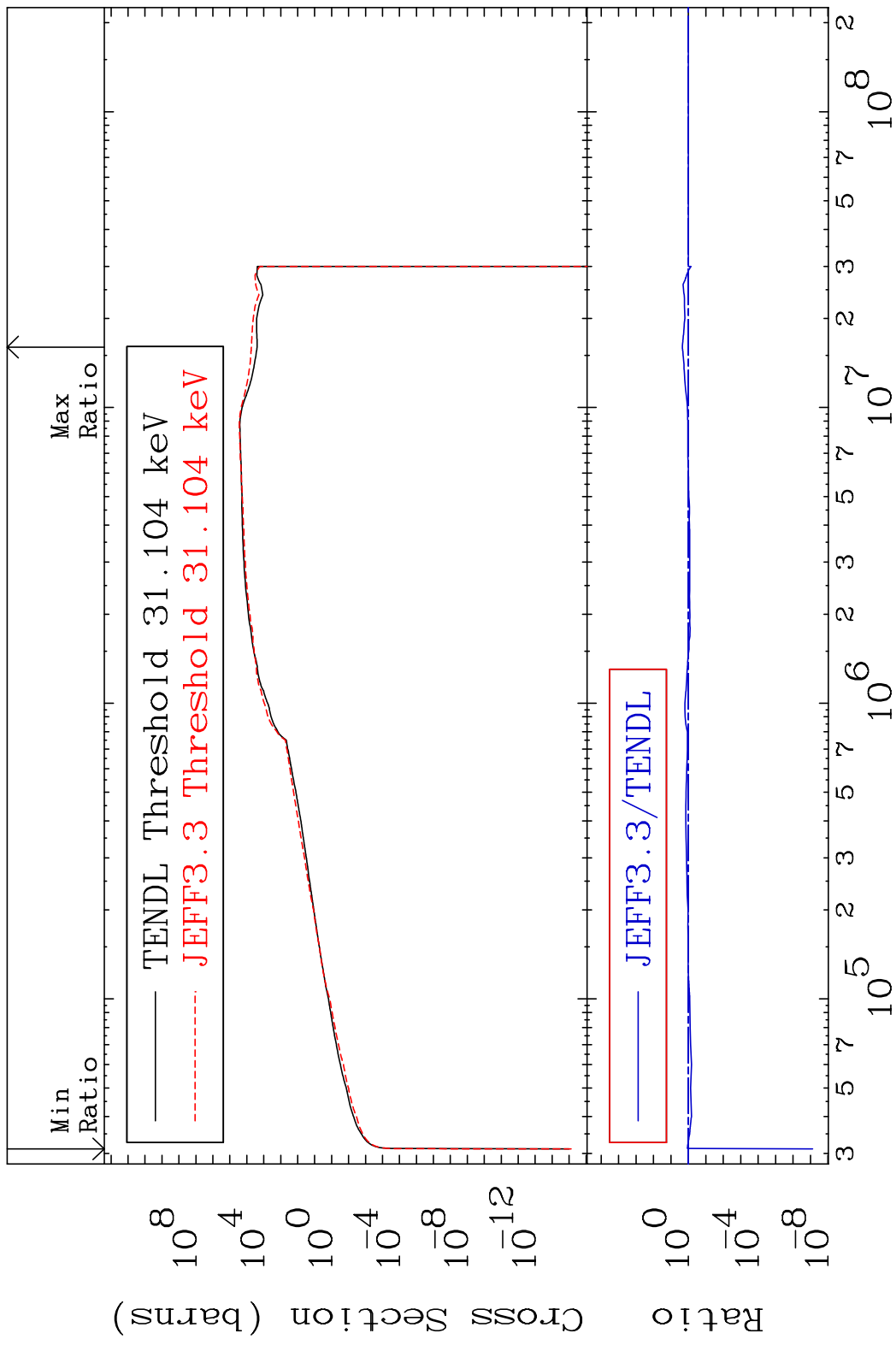
Incident Energy (eV)

41-Nb-93

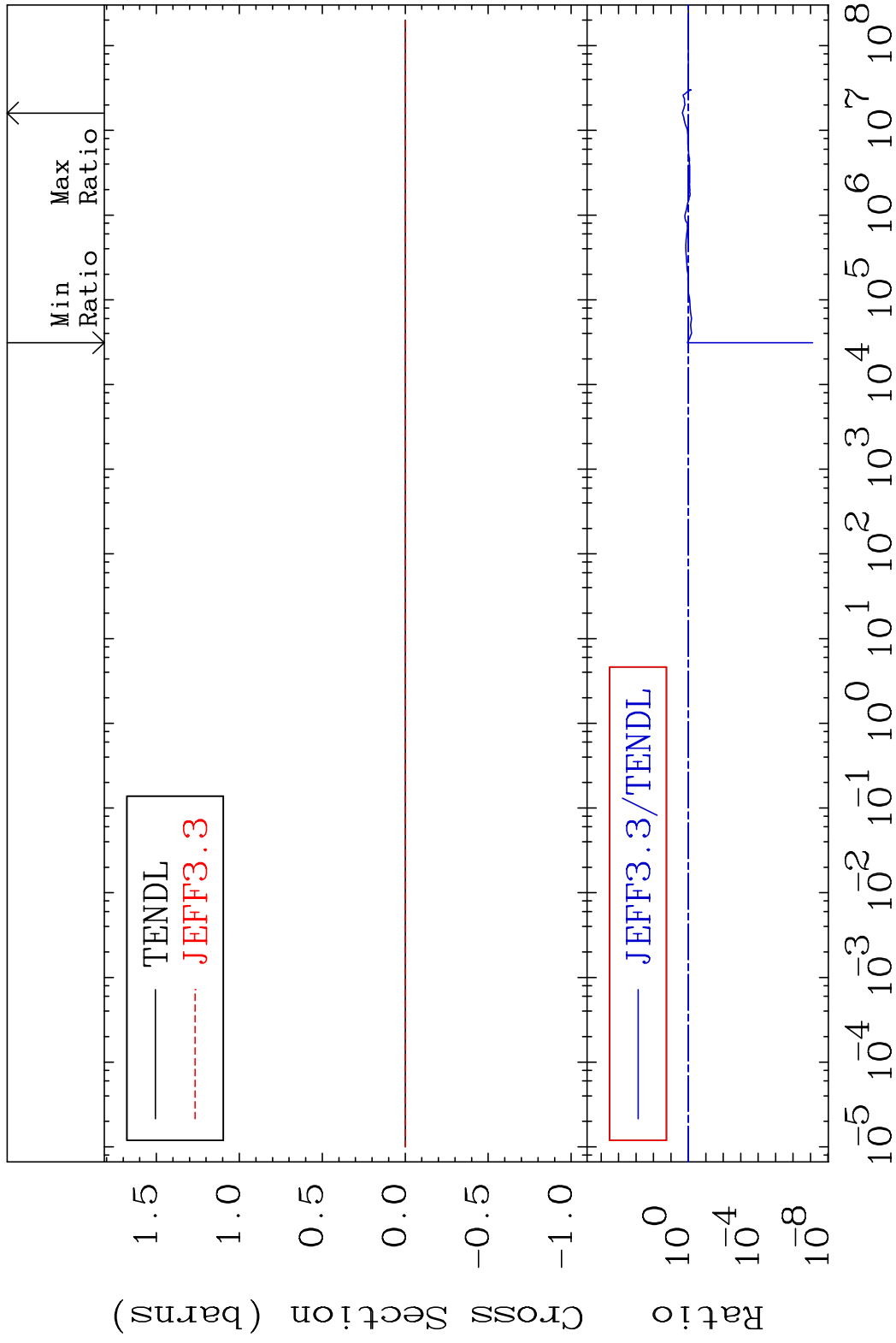
MAT 4125 Kerma non-elastic (all but mt2) 41-Nb-93
 Cross Section -96.69 To 9999. %



MAT 4125 Kerma inelastic (mt51-91) 41-Nb-93
 Cross Section -100.0 To 121.2 %



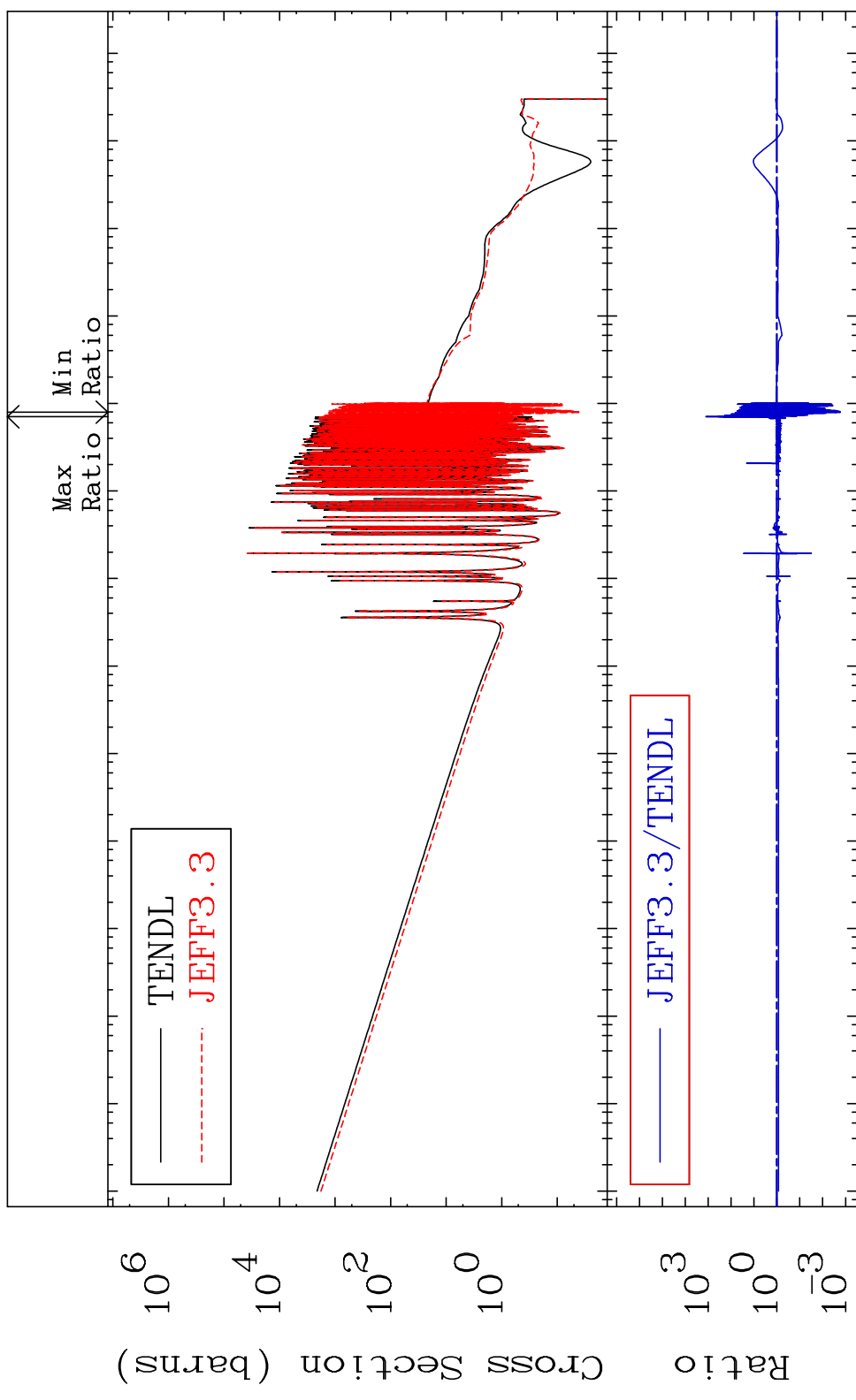
MAT 4125 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-93
 Cross Section -100.0 To 121.2 %



MAT 4125

Kerma capture (mt102) 41-Nb-93

Cross Section -99.83 To 9999. %

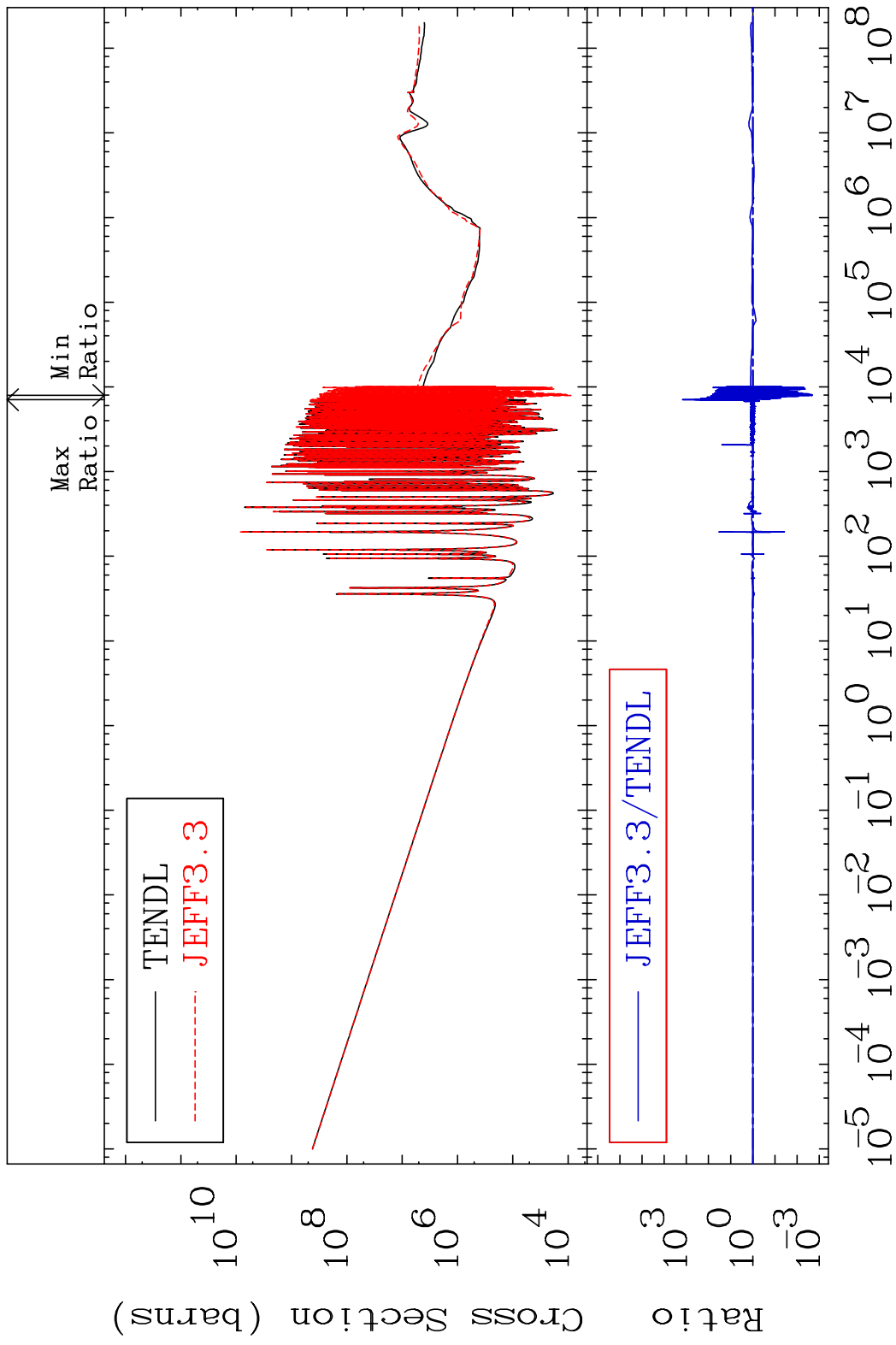


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Incident Energy (eV)

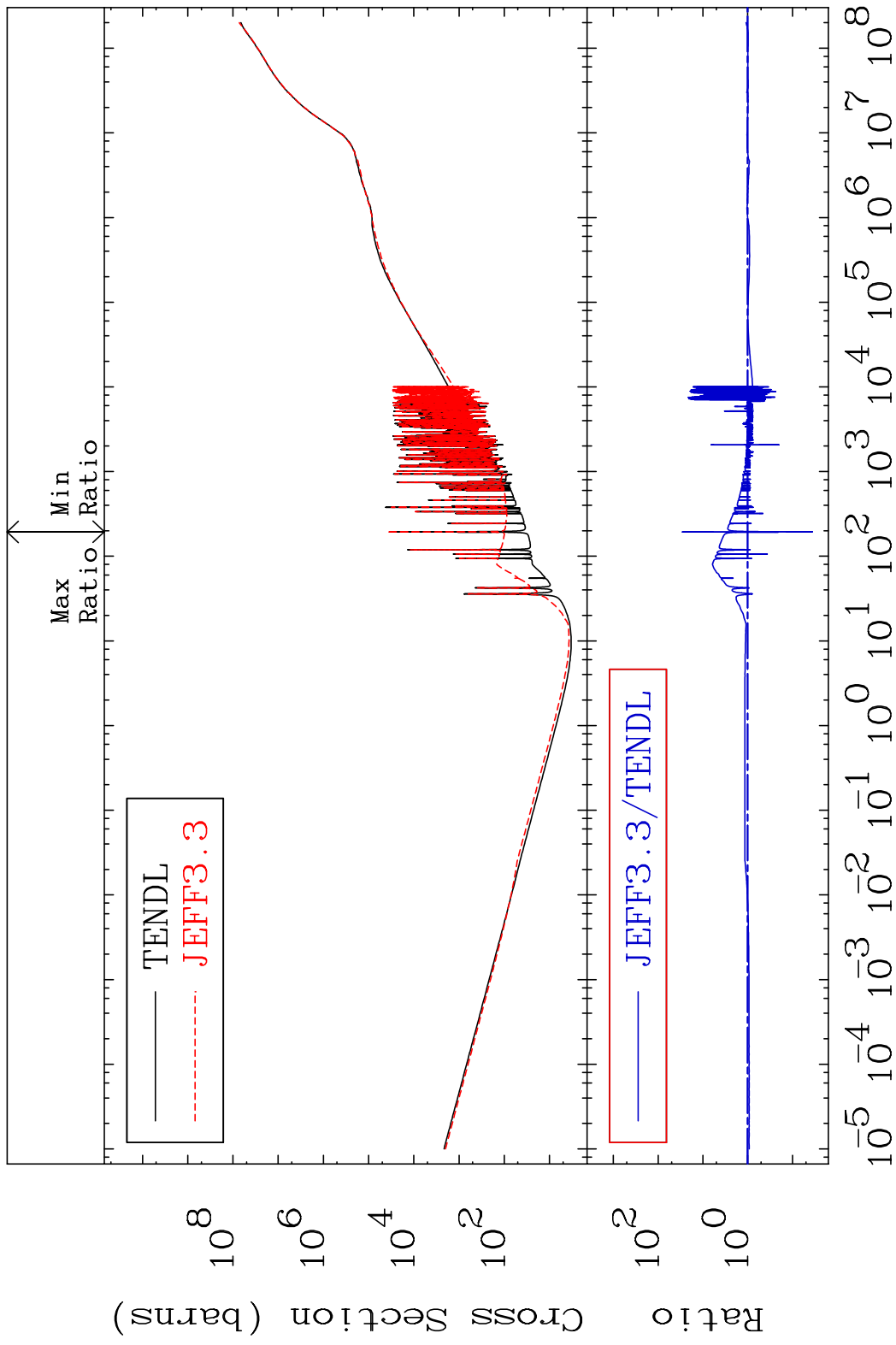
41-Nb-93

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

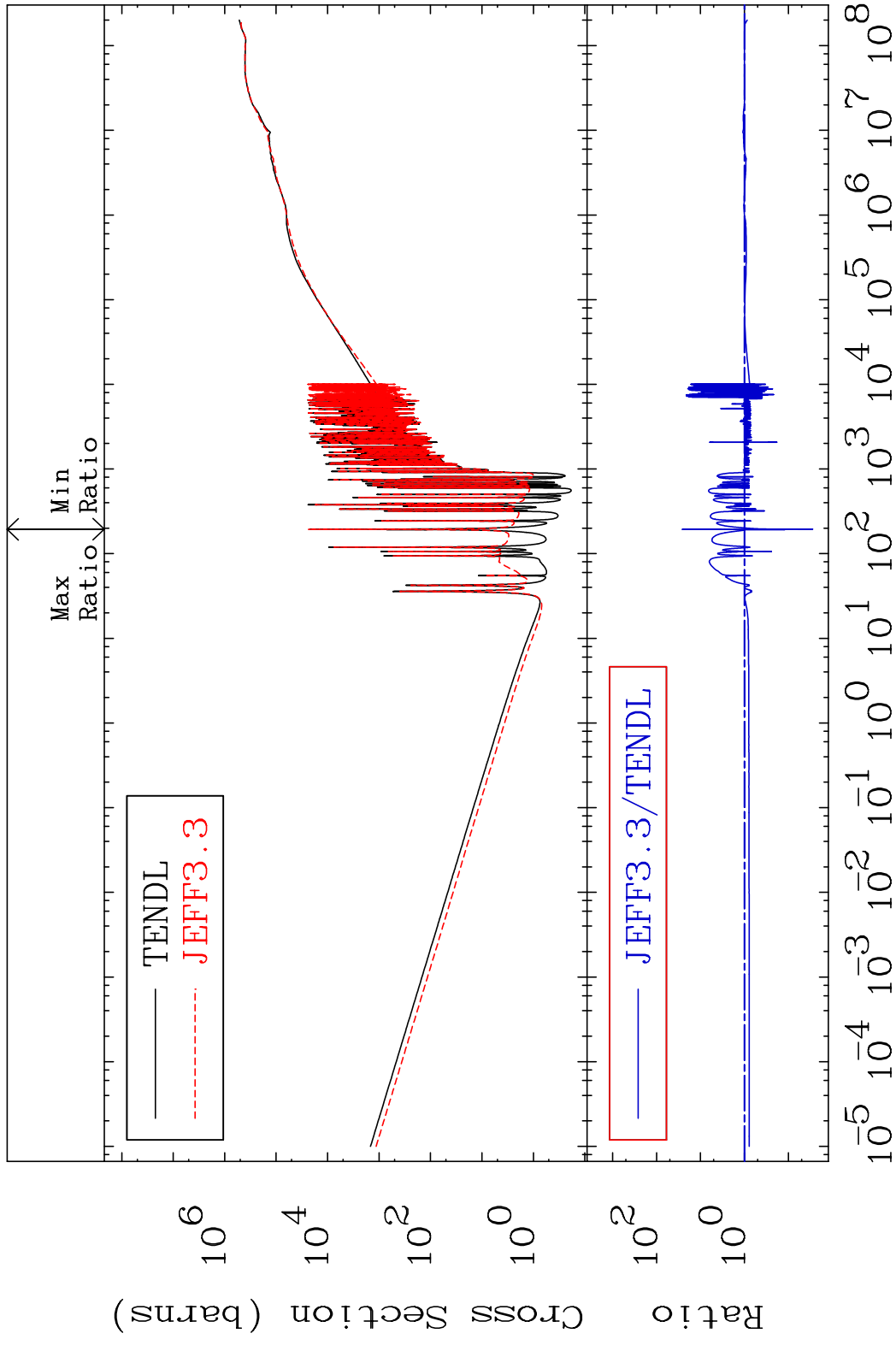


57 Incident Energy (eV) 41-Nb-93

MAT 4125 Total kinematic kerma (high limit) 41-Nb-93
 Cross Section -96.45 To 2777. %



MAT 4125 Dpa total (eV-barns) 41-Nb-93
 Cross Section -97.17 To 2485. %

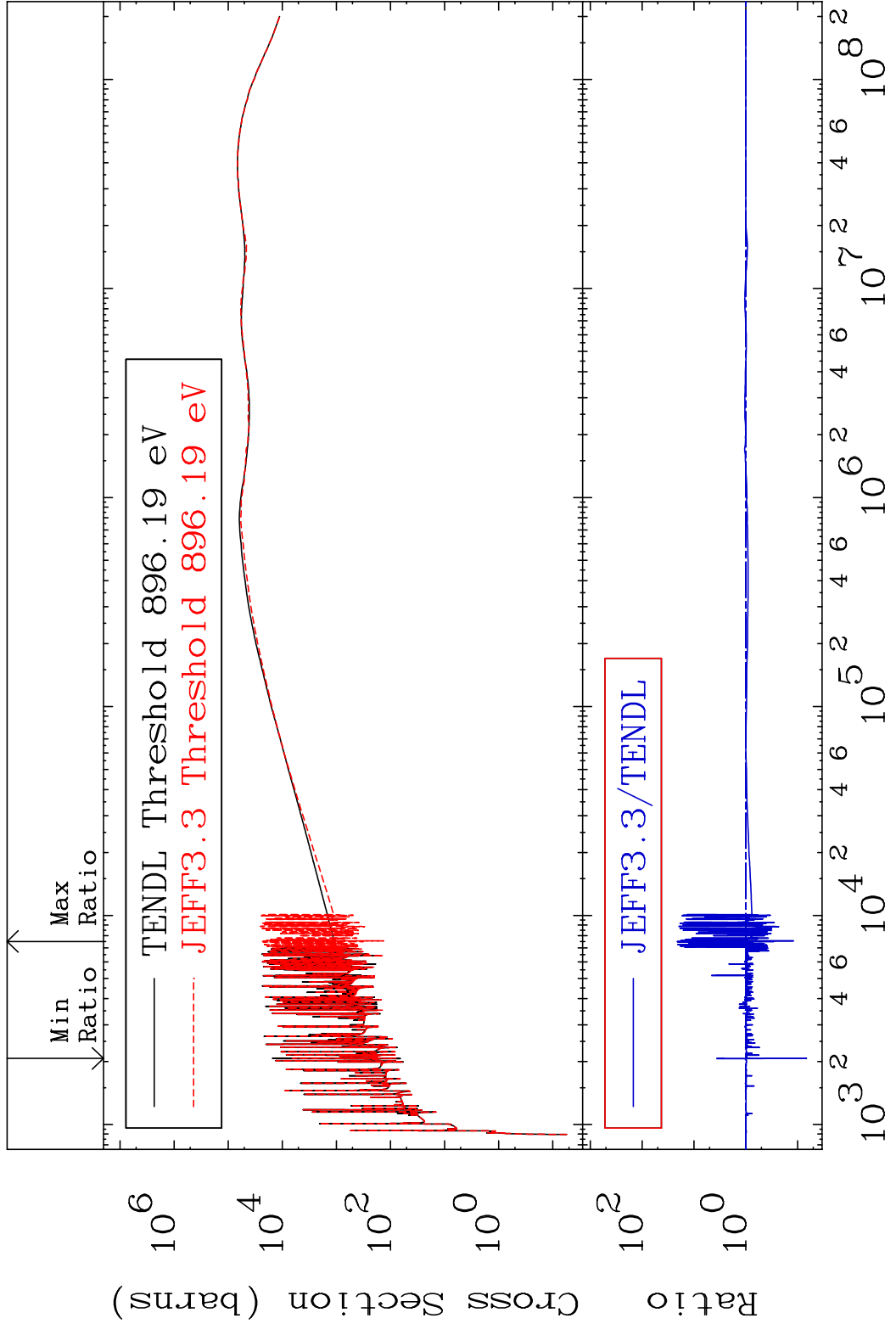


MAT 4125

Dpa elastic (mt2)

41-Nb-93

Cross Section -93.22 To 2004. %

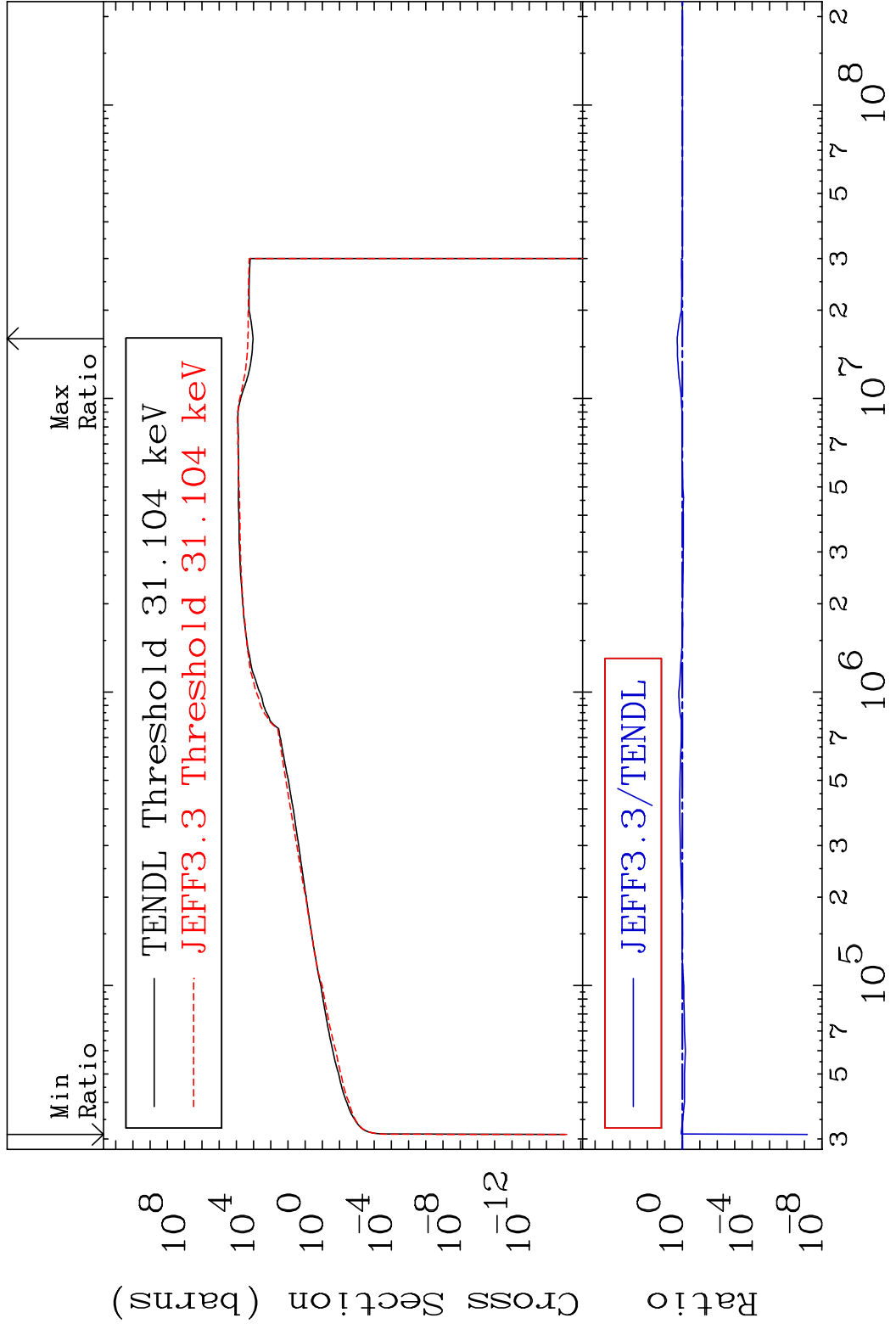


60

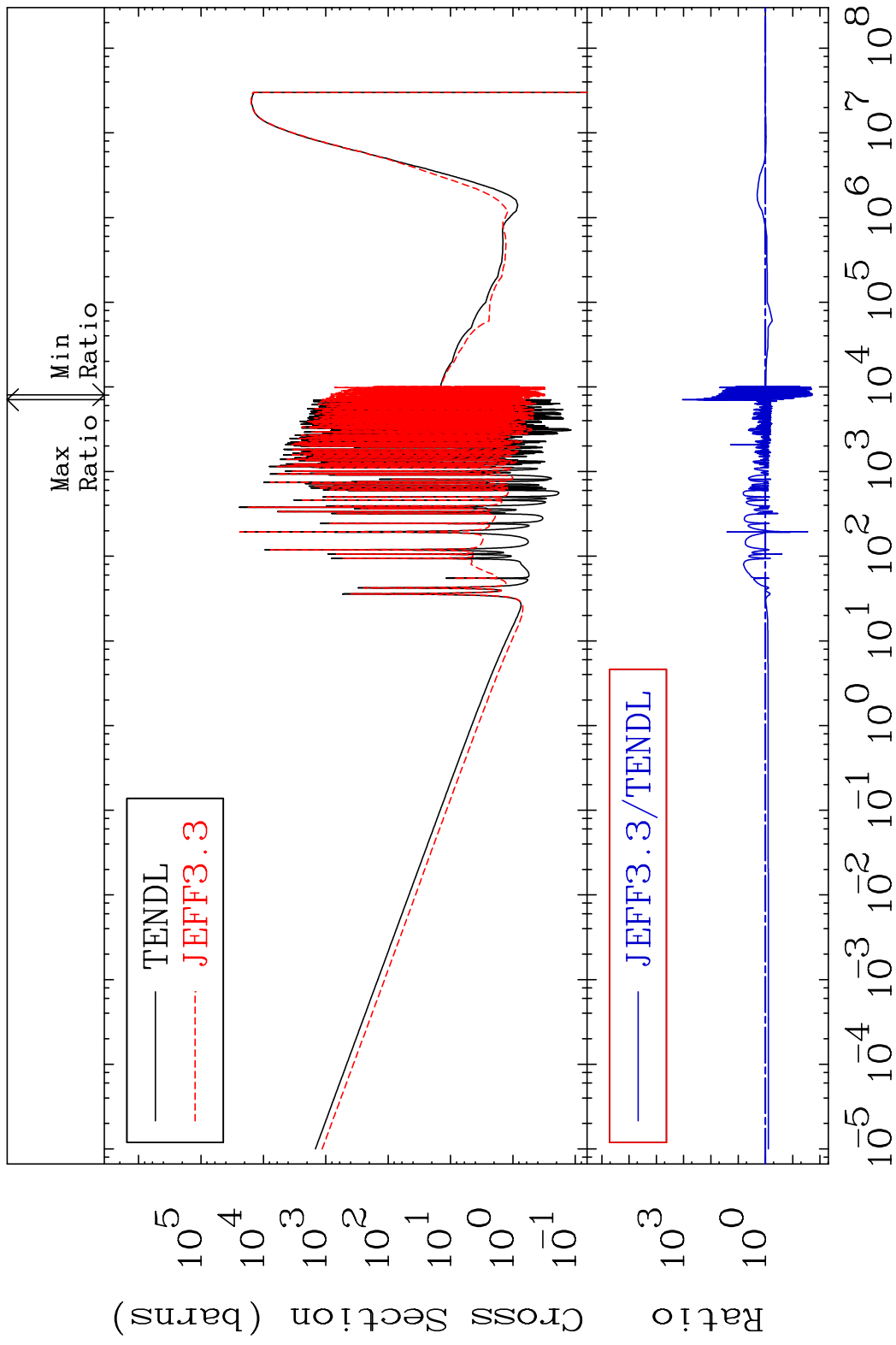
Incident Energy (eV)

41-Nb-93

MAT 4125 Dpa inelastic (mt51-91) 41-Nb-93
 Cross Section -100.0 To 96.79 %

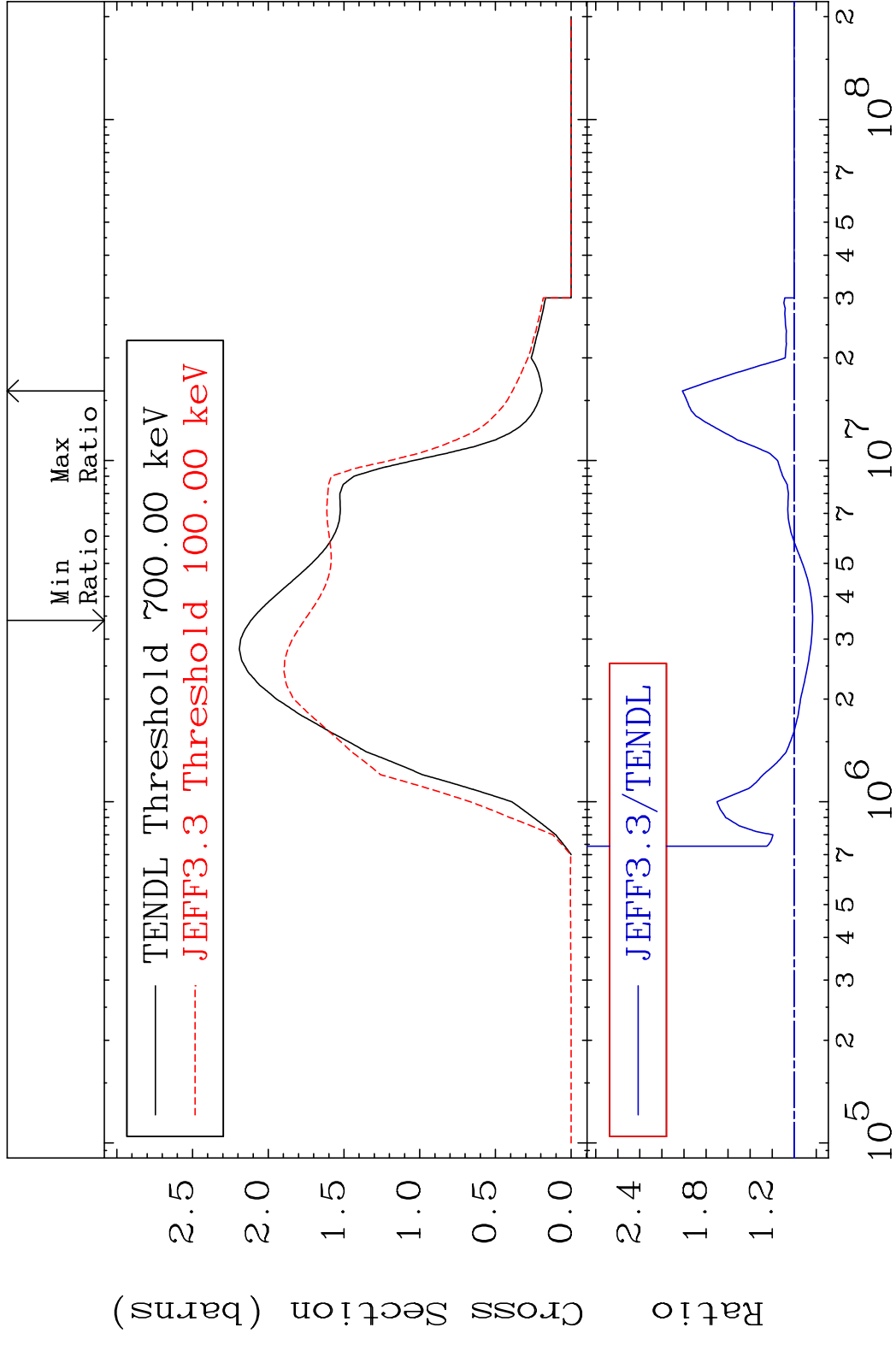


MAT 4125 Dpa disappearance (mt102 -120) 41-Nb-93
 Cross Section -98.12 To 9999. %



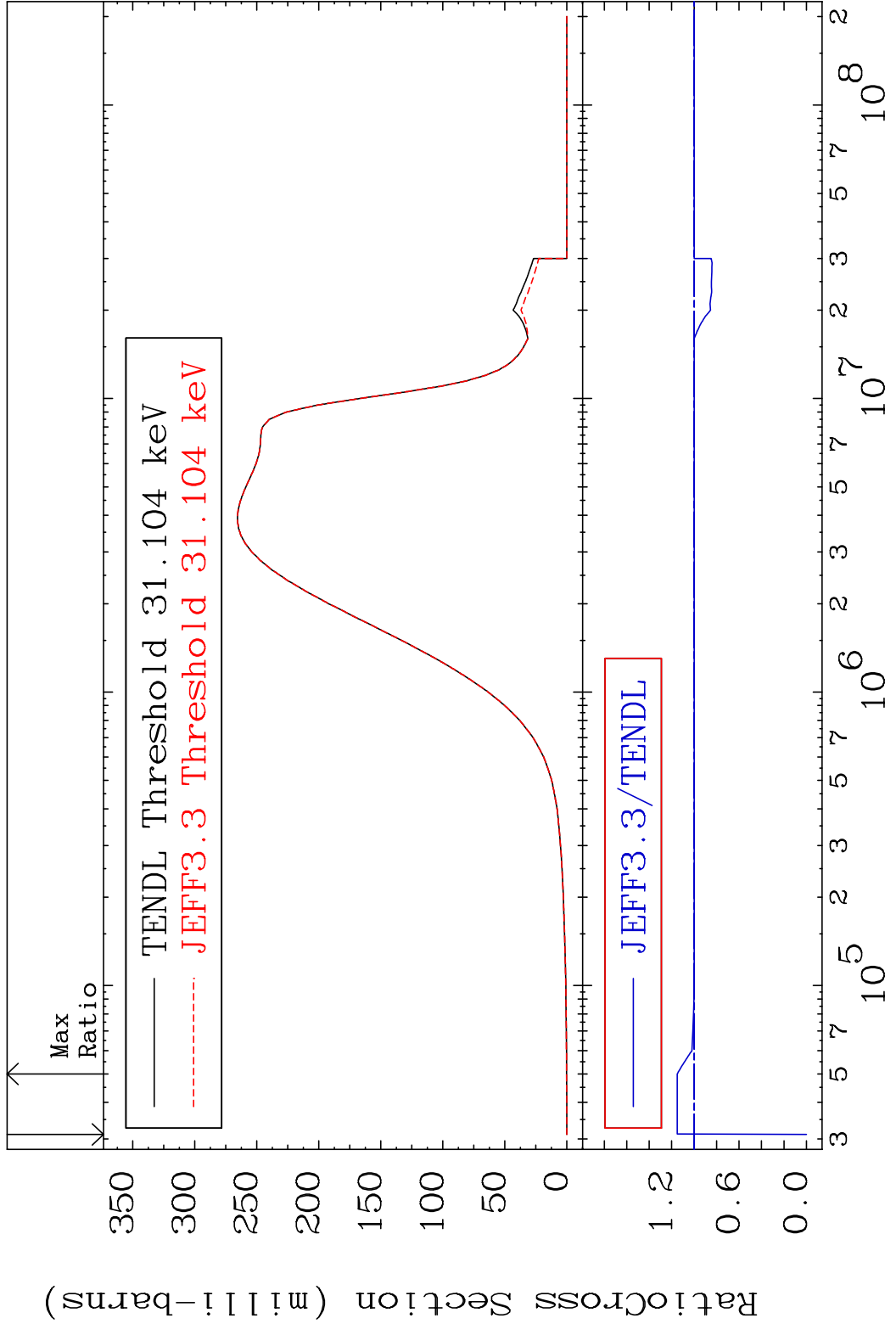
62 Incident Energy (eV) 41-Nb-93

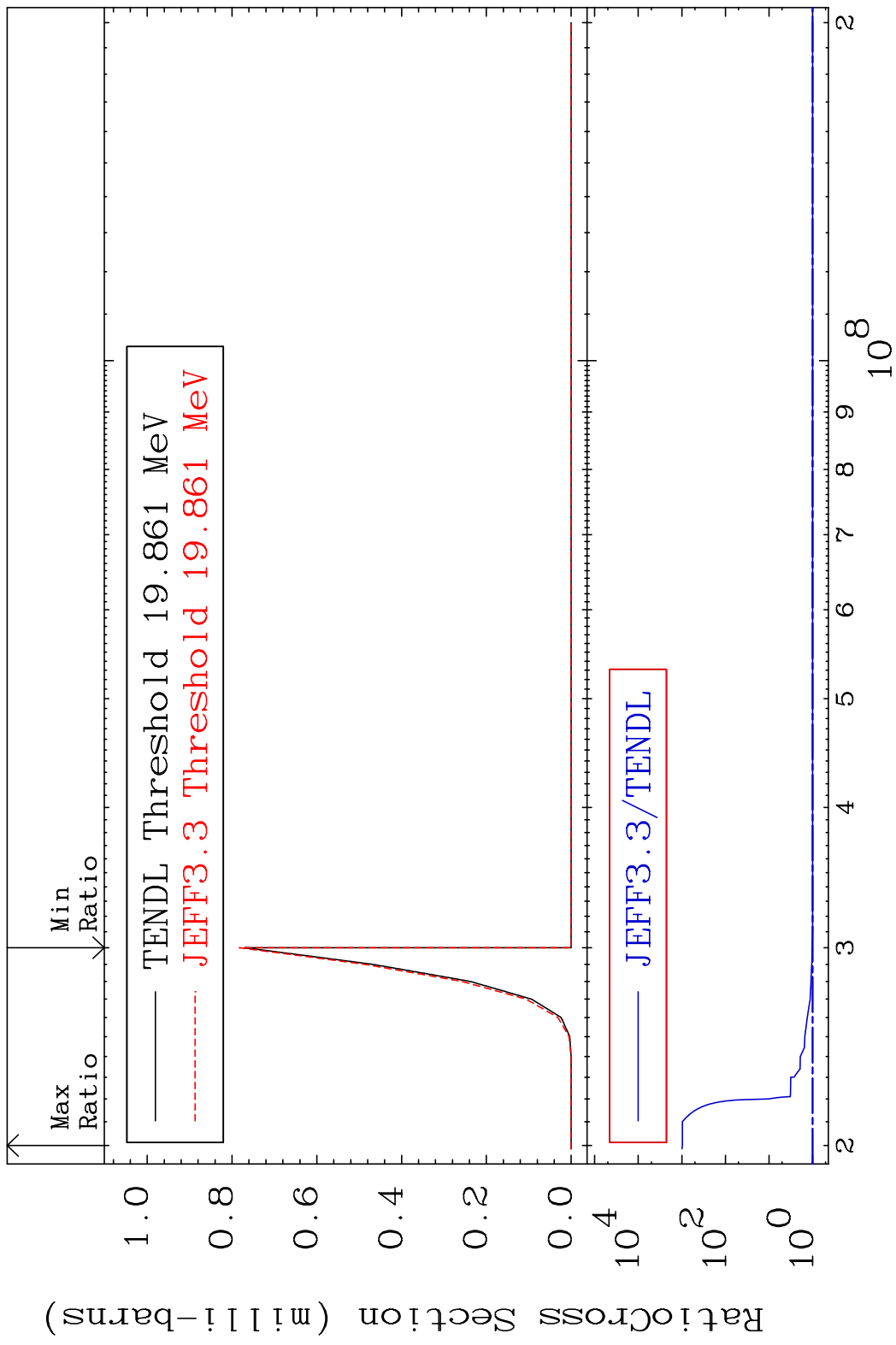
MAT 4125 Inelastic: 41-Nb-93g 41-Nb-93
 Radionuclide Production Cross Section 186.641 dno 101.4 %



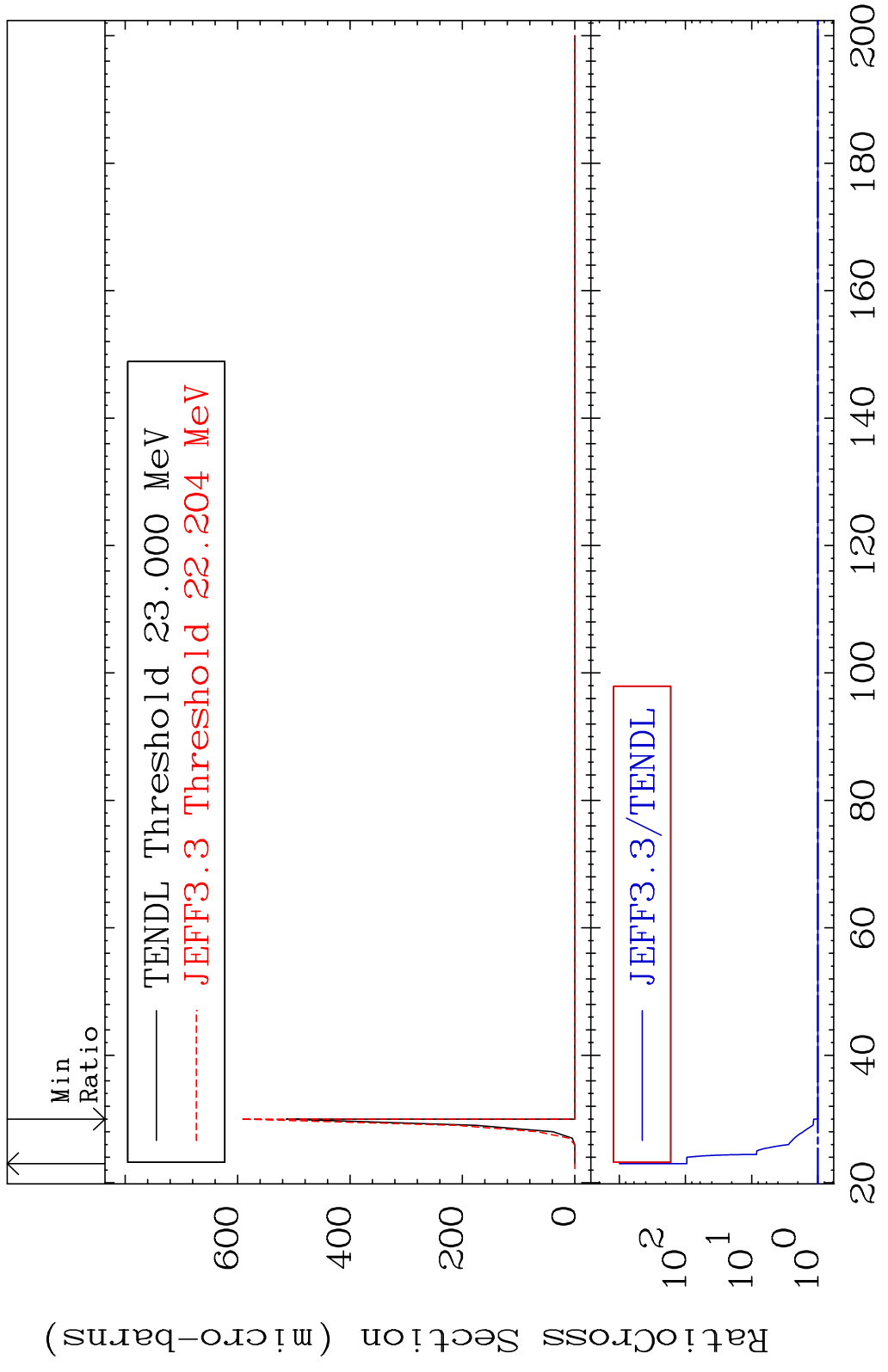
63 Incident Energy (eV) 41-Nb-93

MAT 4125 Inelastic: 41-Nb-93m1 41-Nb-93
 Radionuclide Production Cross Section 15.08 %

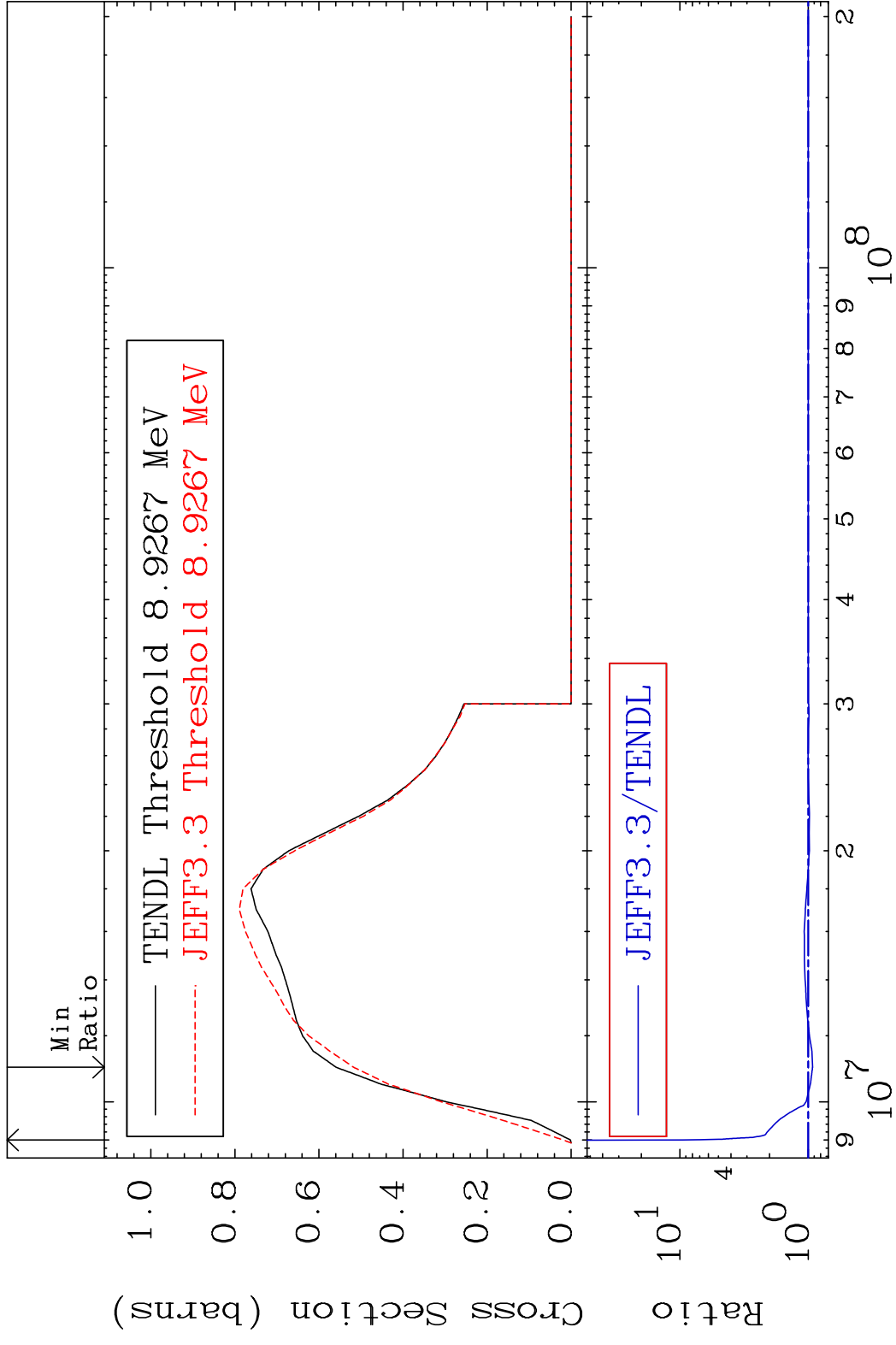




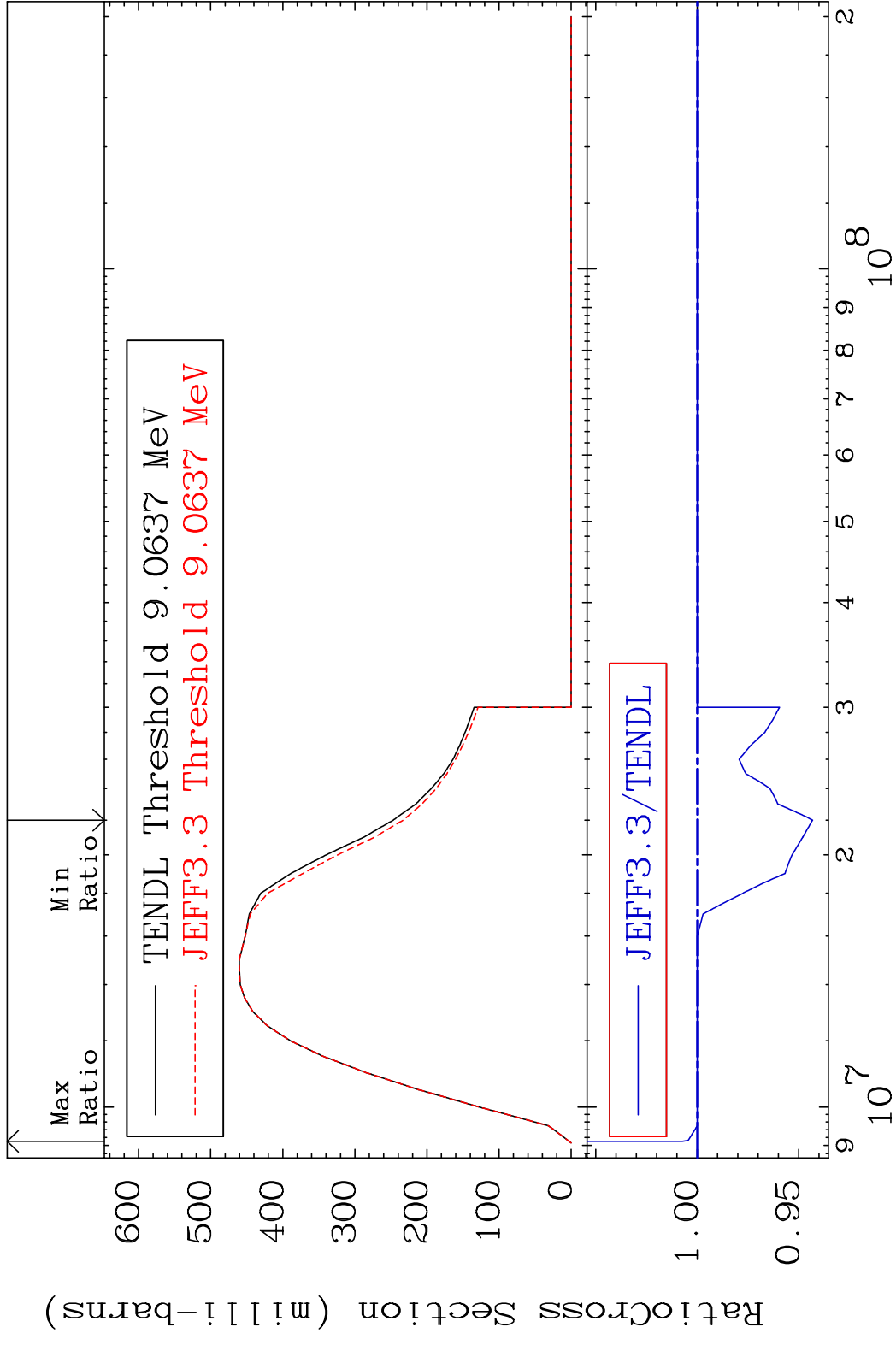
MAT 4125 (n,2n) d:40-Zr-90m3 41-Nb-93
 Radionuclide Production Cross Section 9473. %



MAT 4125 (n,2n):41-Nb-92g 41-Nb-93
 Radionuclide Production Cross Section 857.0 %

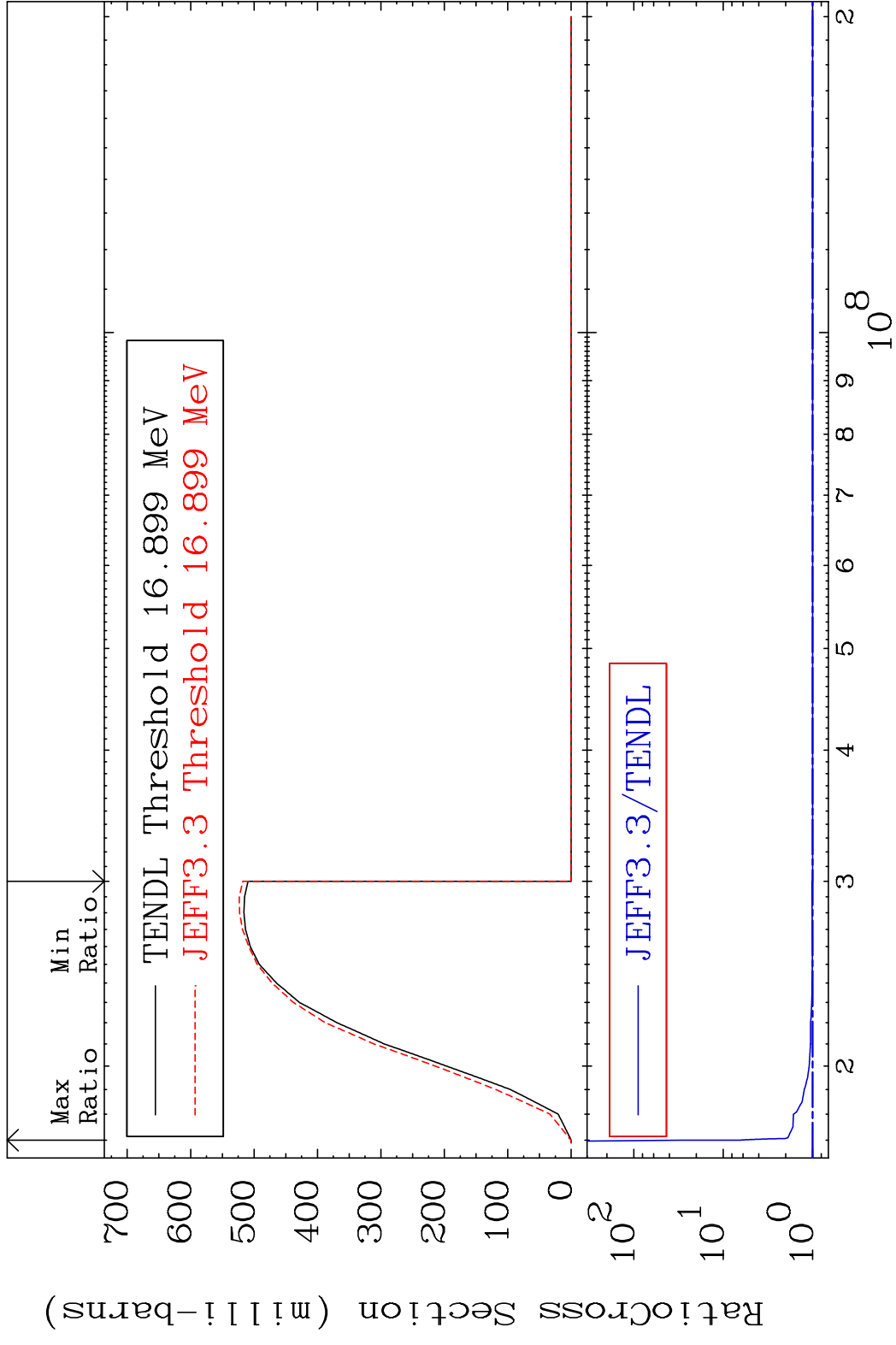


MAT 4125 (n,2n):41-Nb-92m1 41-Nb-93
 Radionuclide Production Cross Section 568210 0.734 %

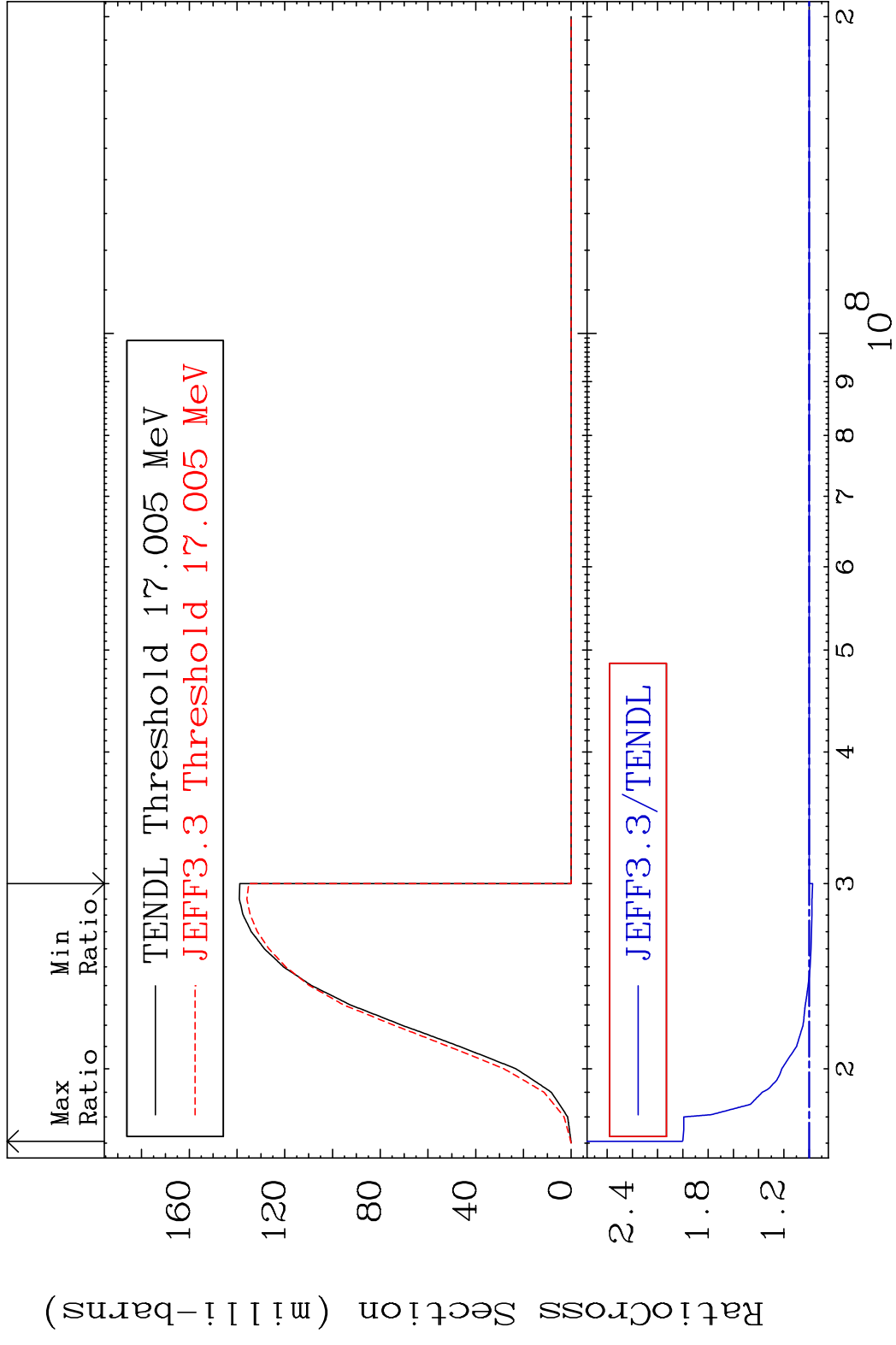


68 41-Nb-93

MAT 4125 (n,3n):41-Nb-91g 41-Nb-93
 Radionuclide Production Cross Section 2760. %

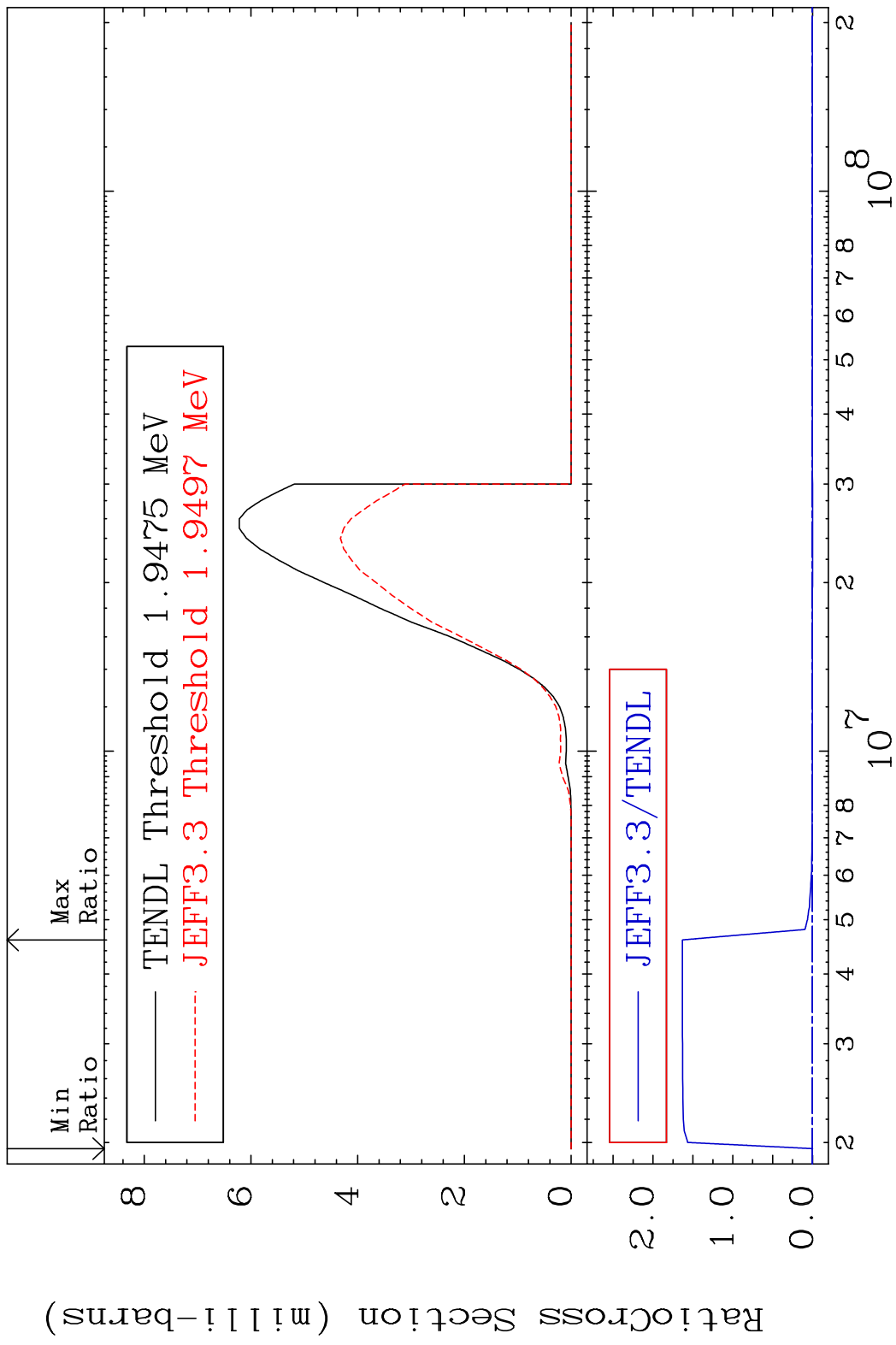


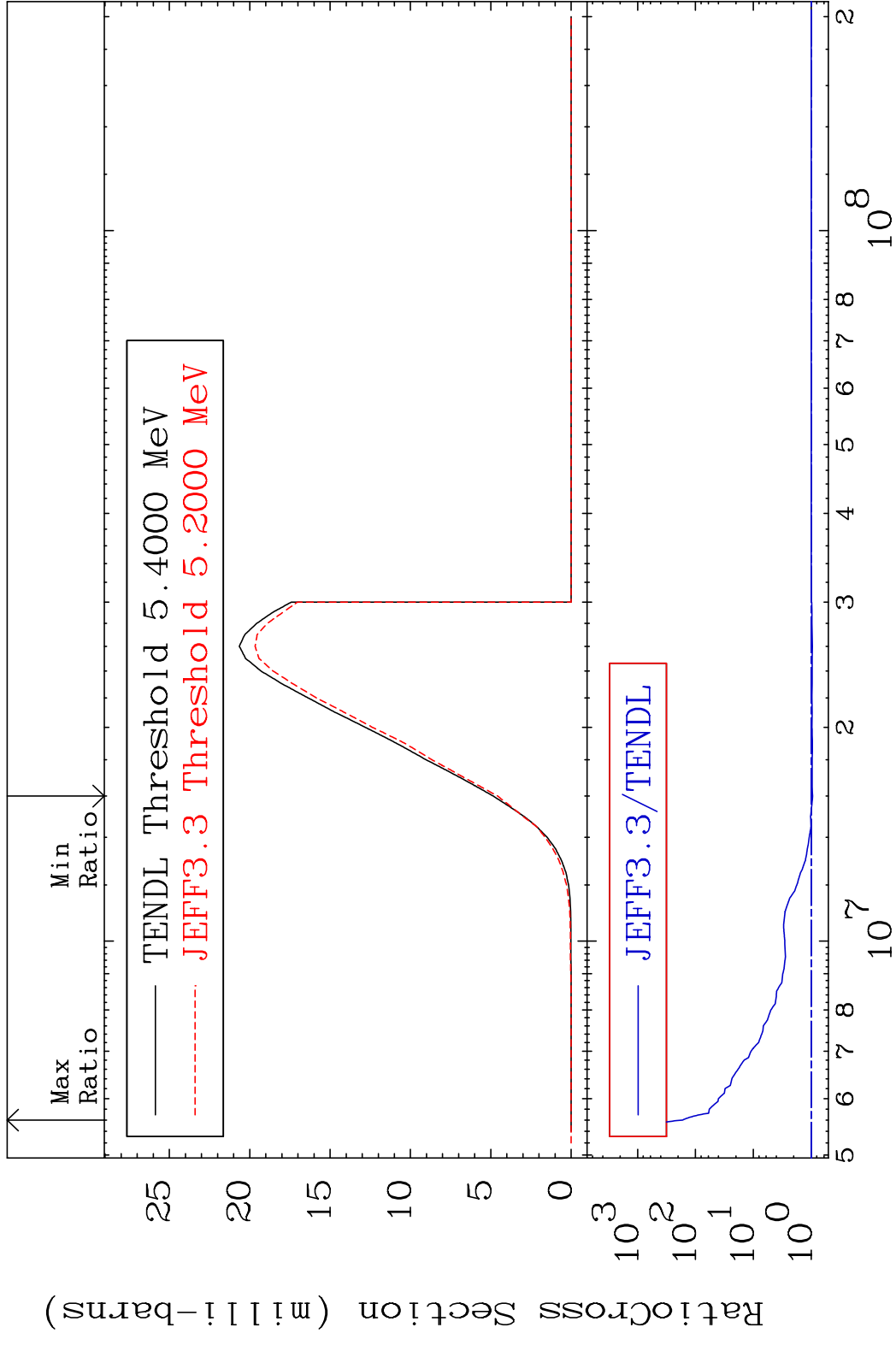
MAT 4125 (n,3n):41-Nb-91m1 41-Nb-93
 Radionuclide Production Cross Section 100.4 %

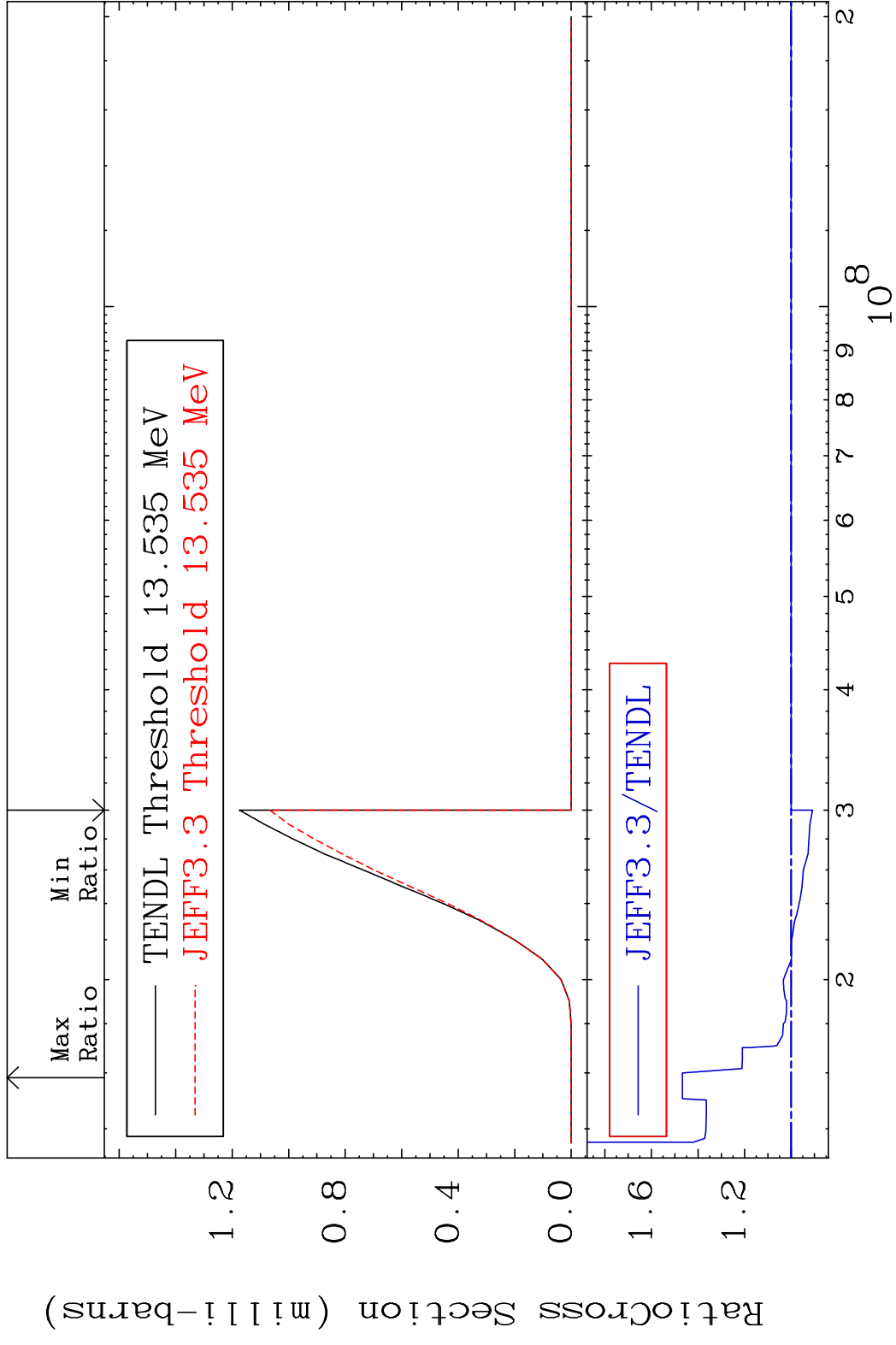


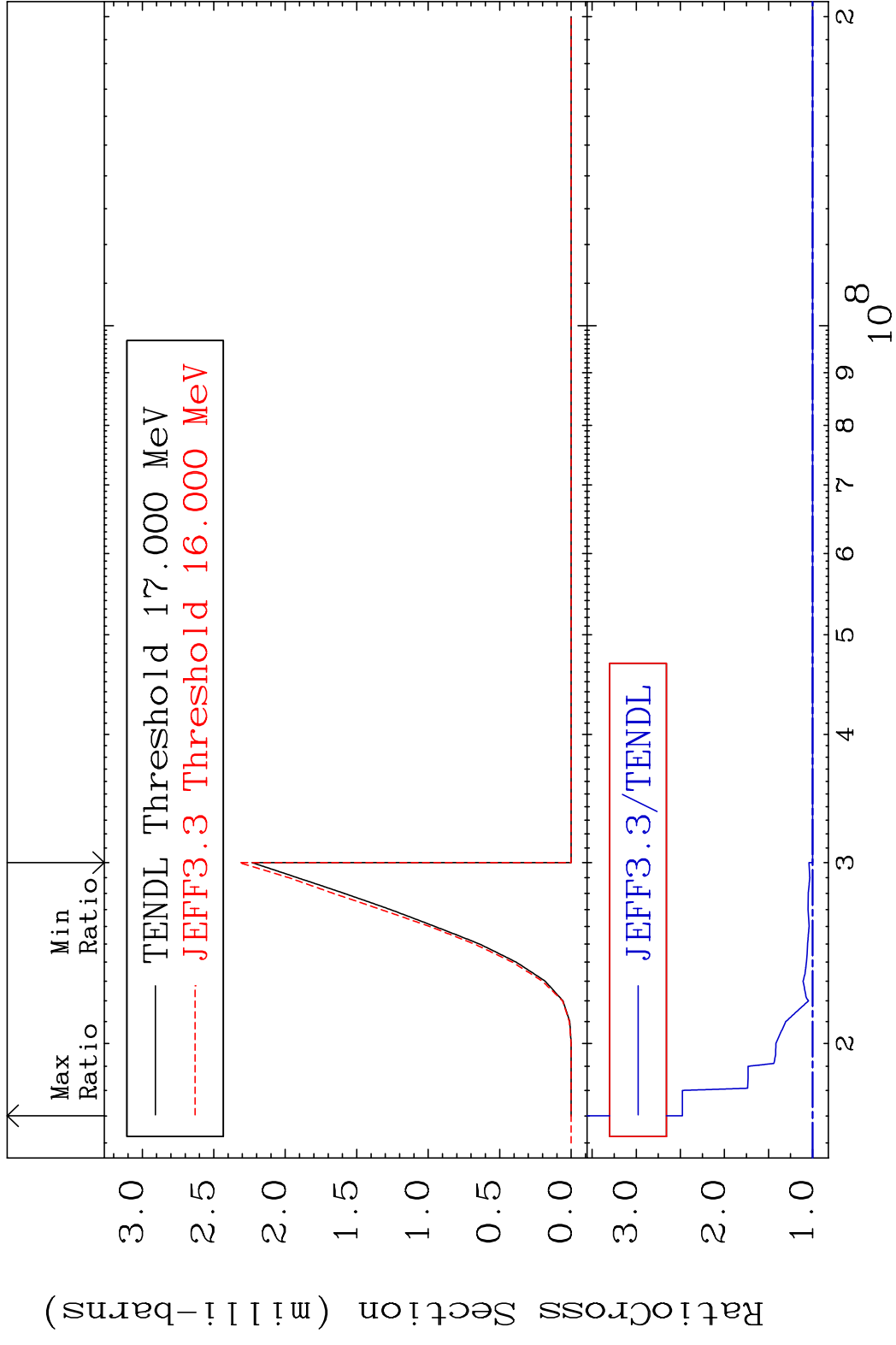
70 Incident Energy (eV) 41-Nb-93

MAT 4125 (n, n') α :39-Y -89g 41-Nb-93
 Radionuclide Production Cross Section Ratio 9999. %

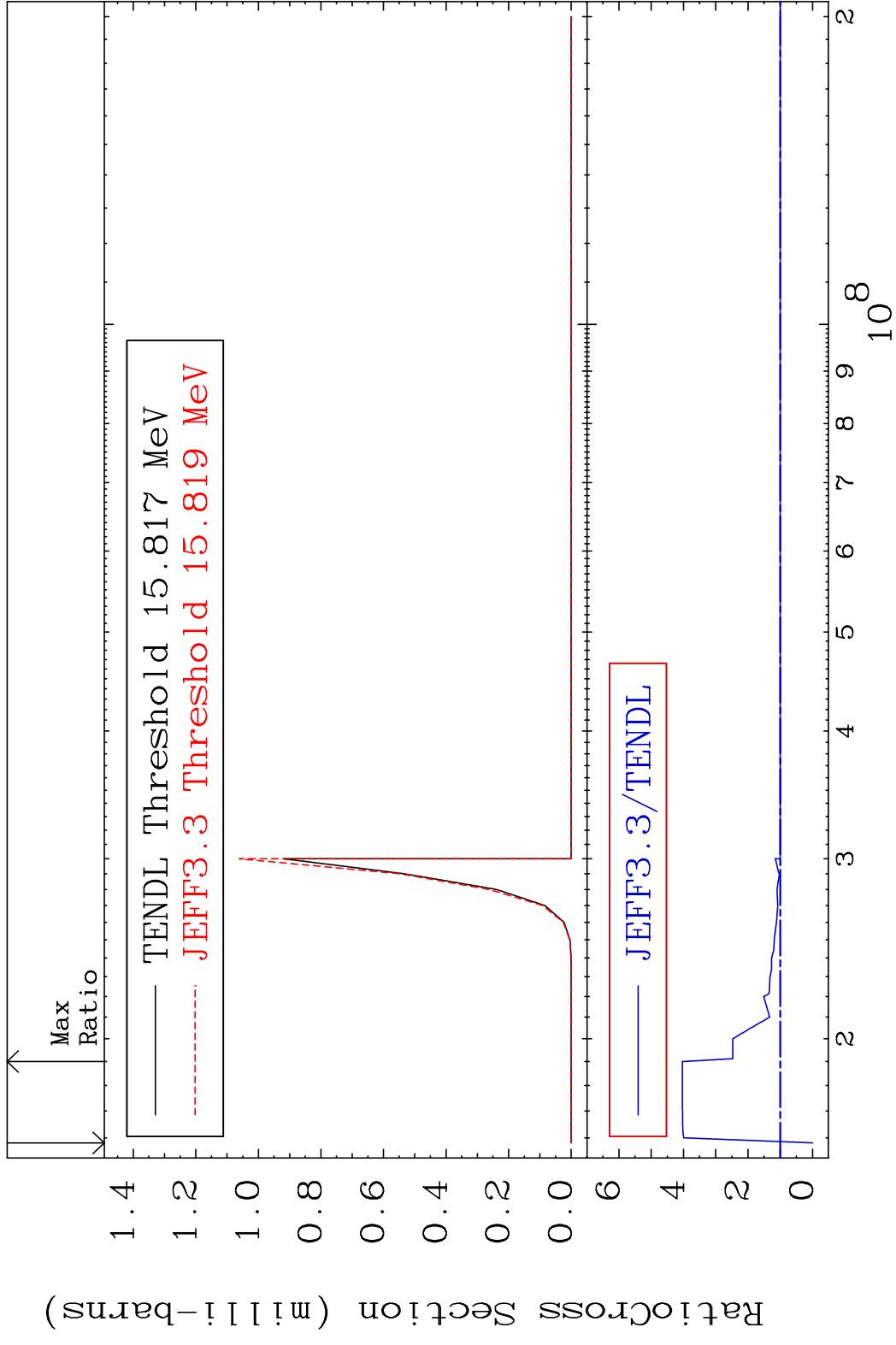


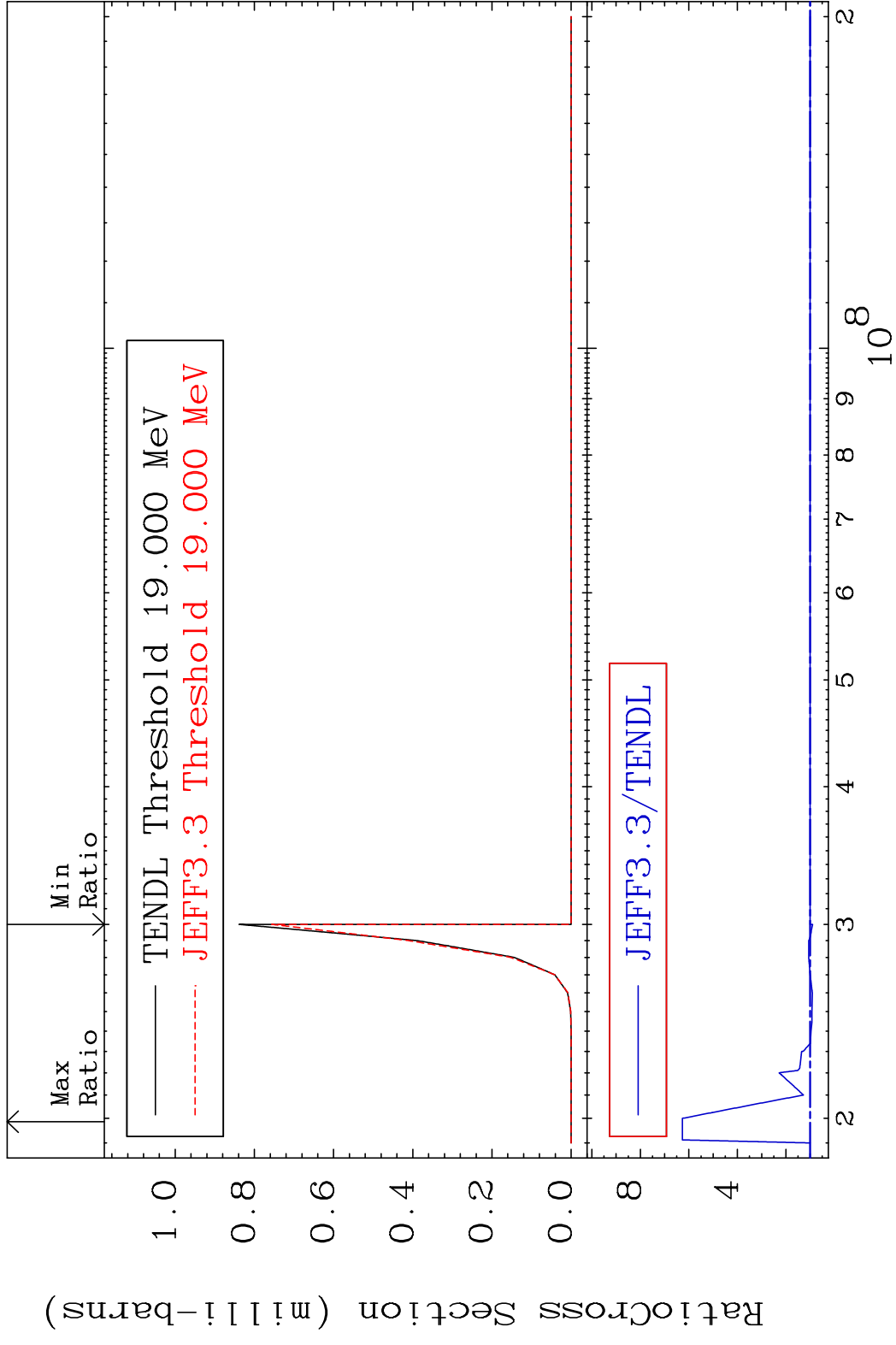


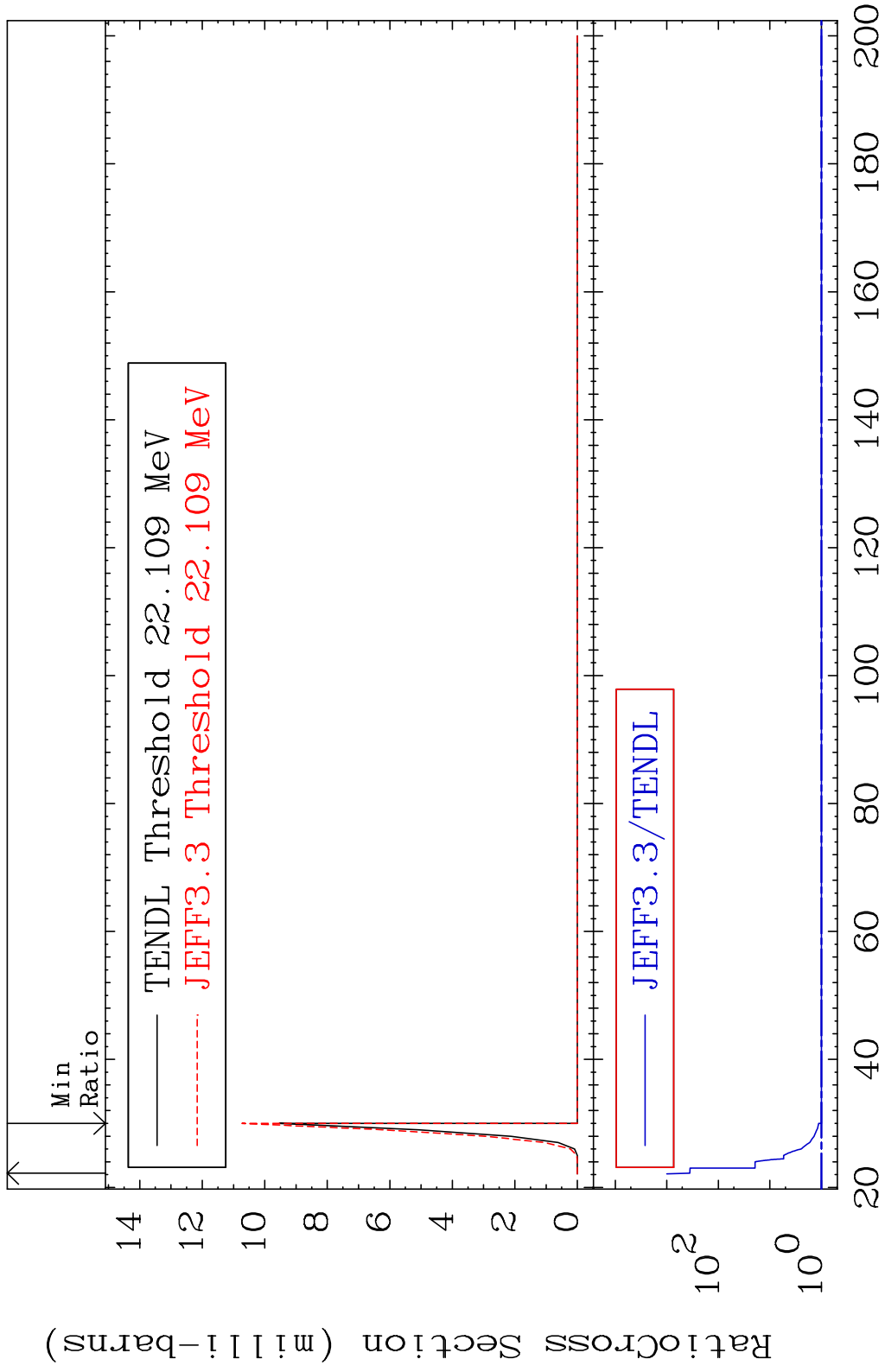


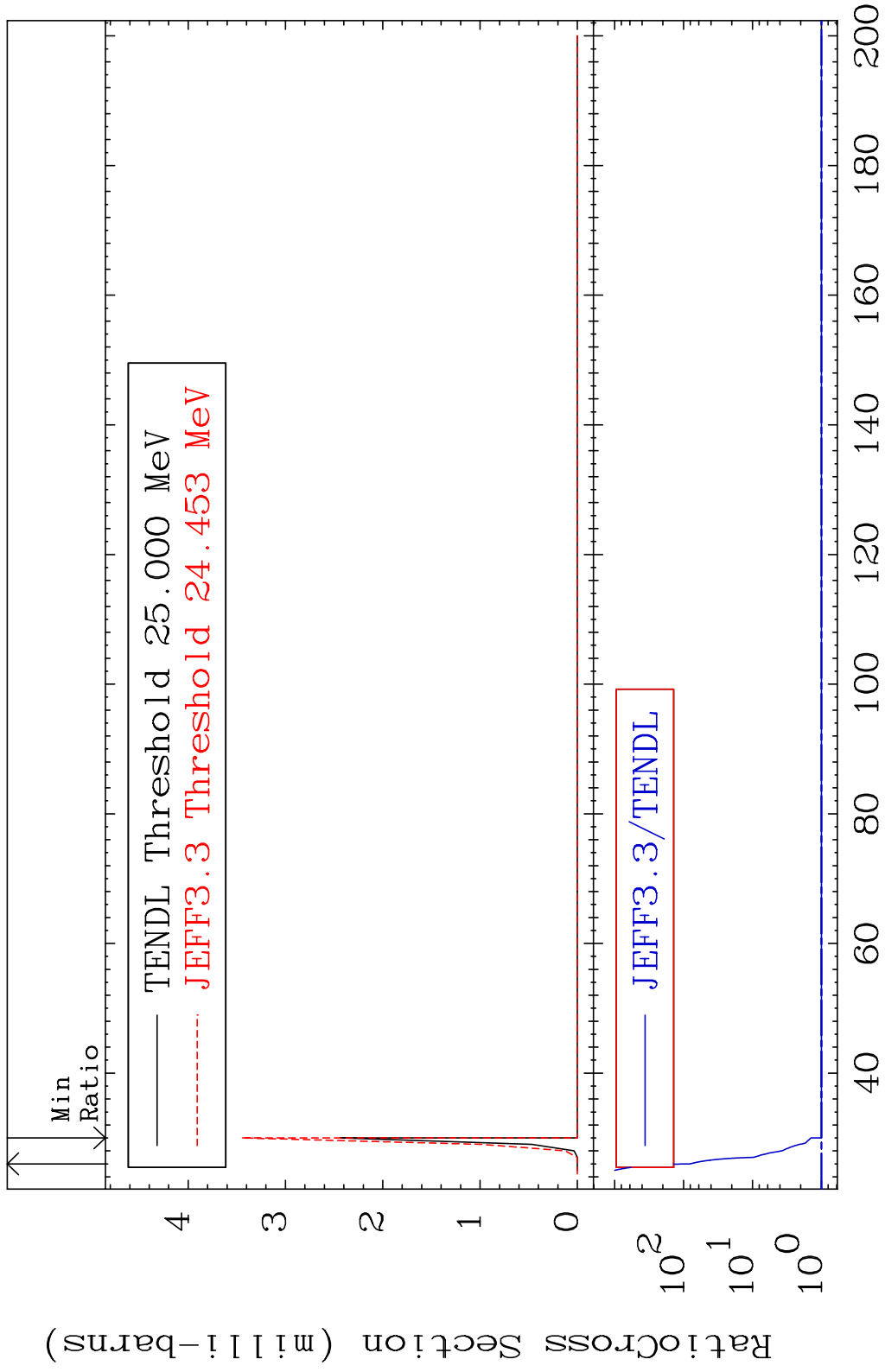


MAT 4125 (n, n') He-3:39-Y -90g 41-Nb-93
 Radionuclide Production Cross Section 180.0 dth 303.4 %

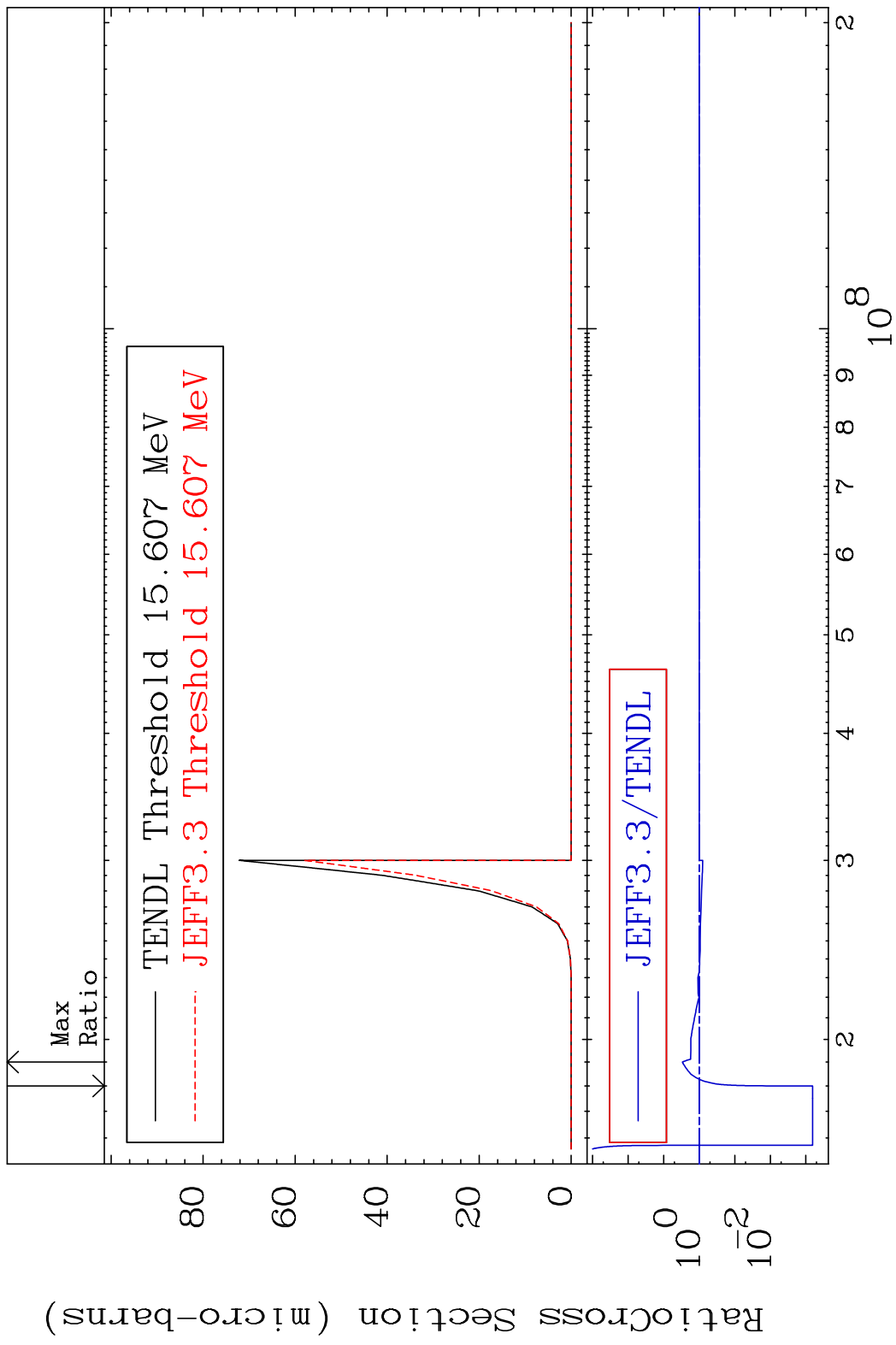




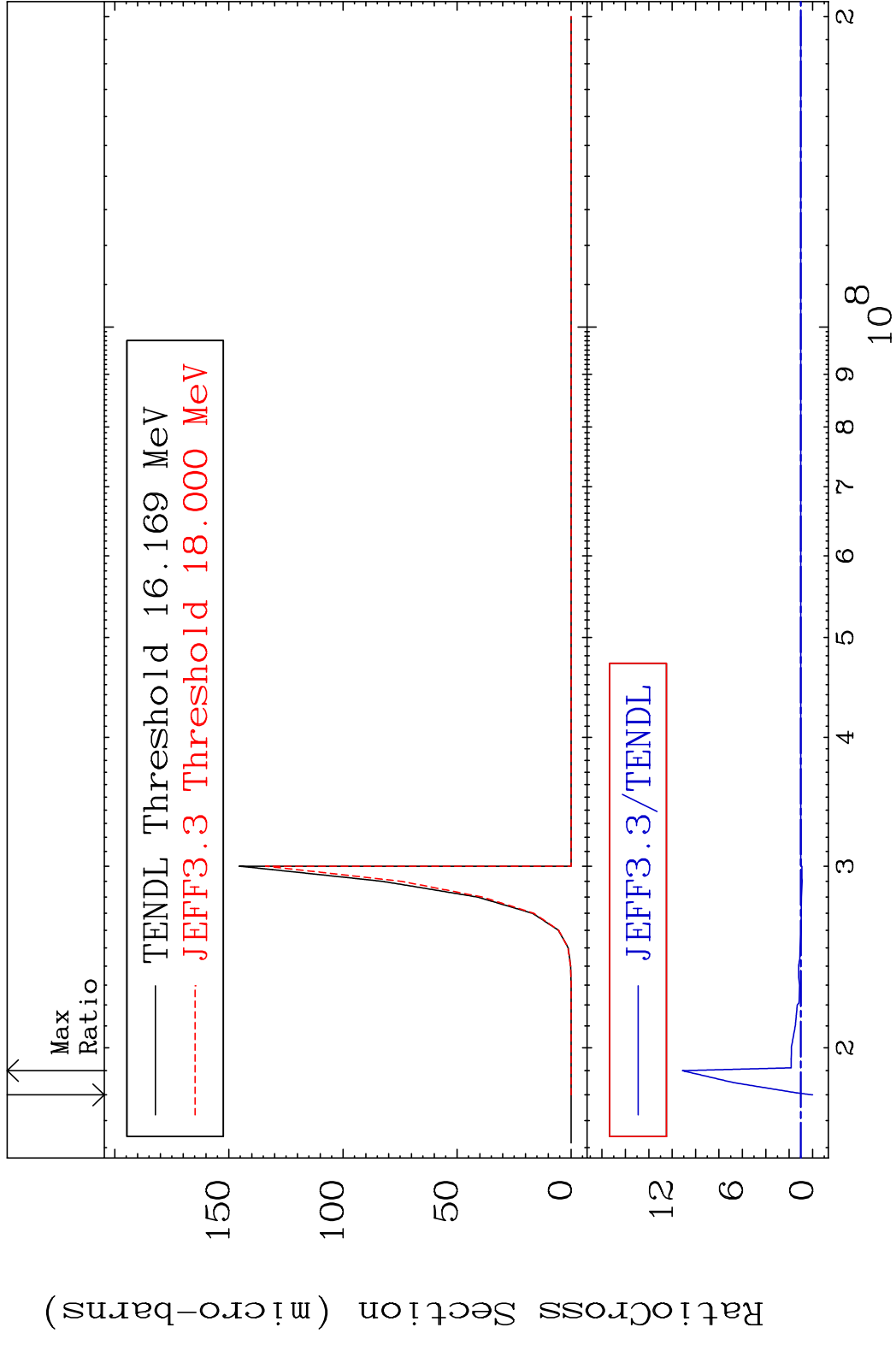


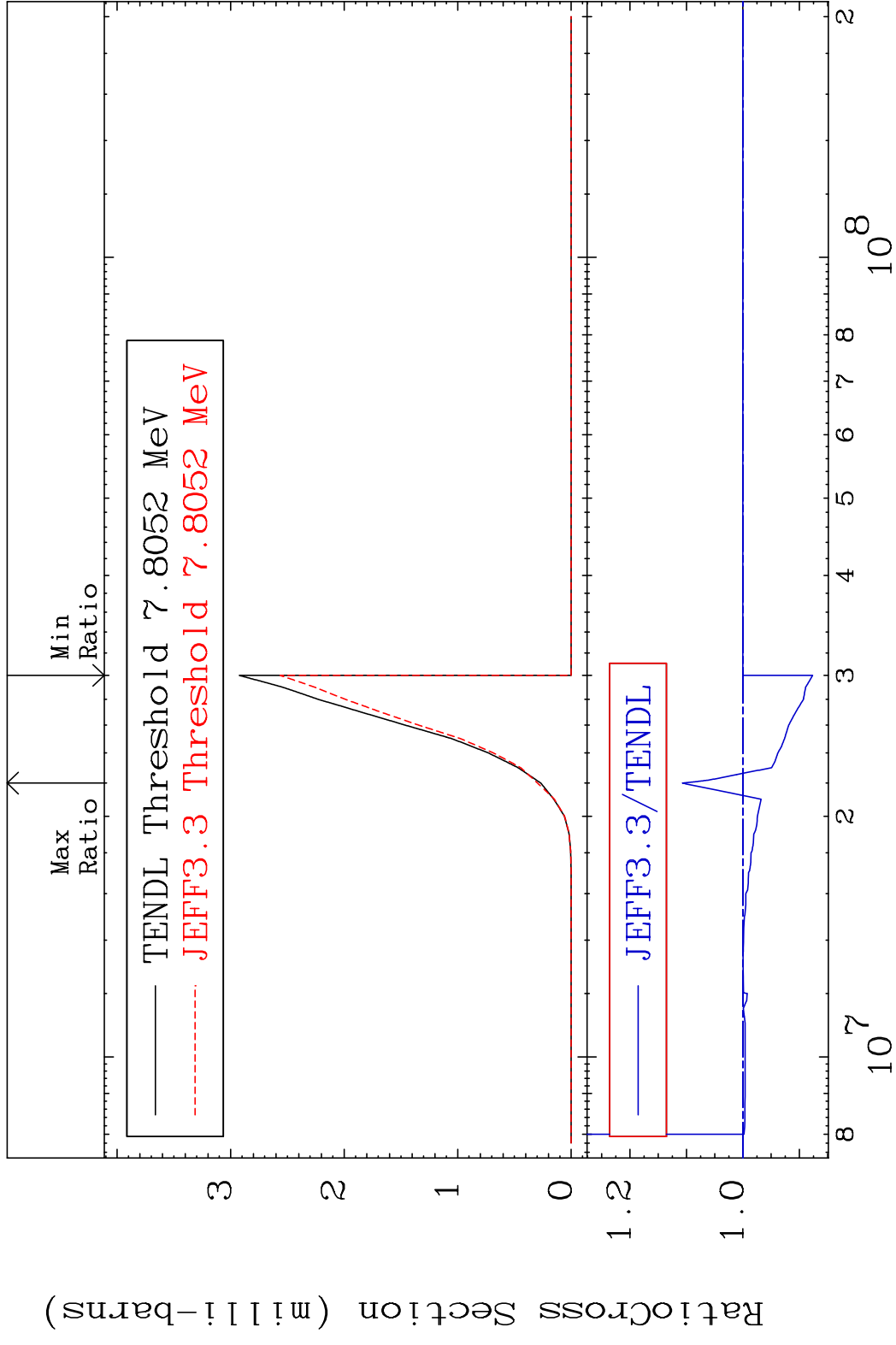


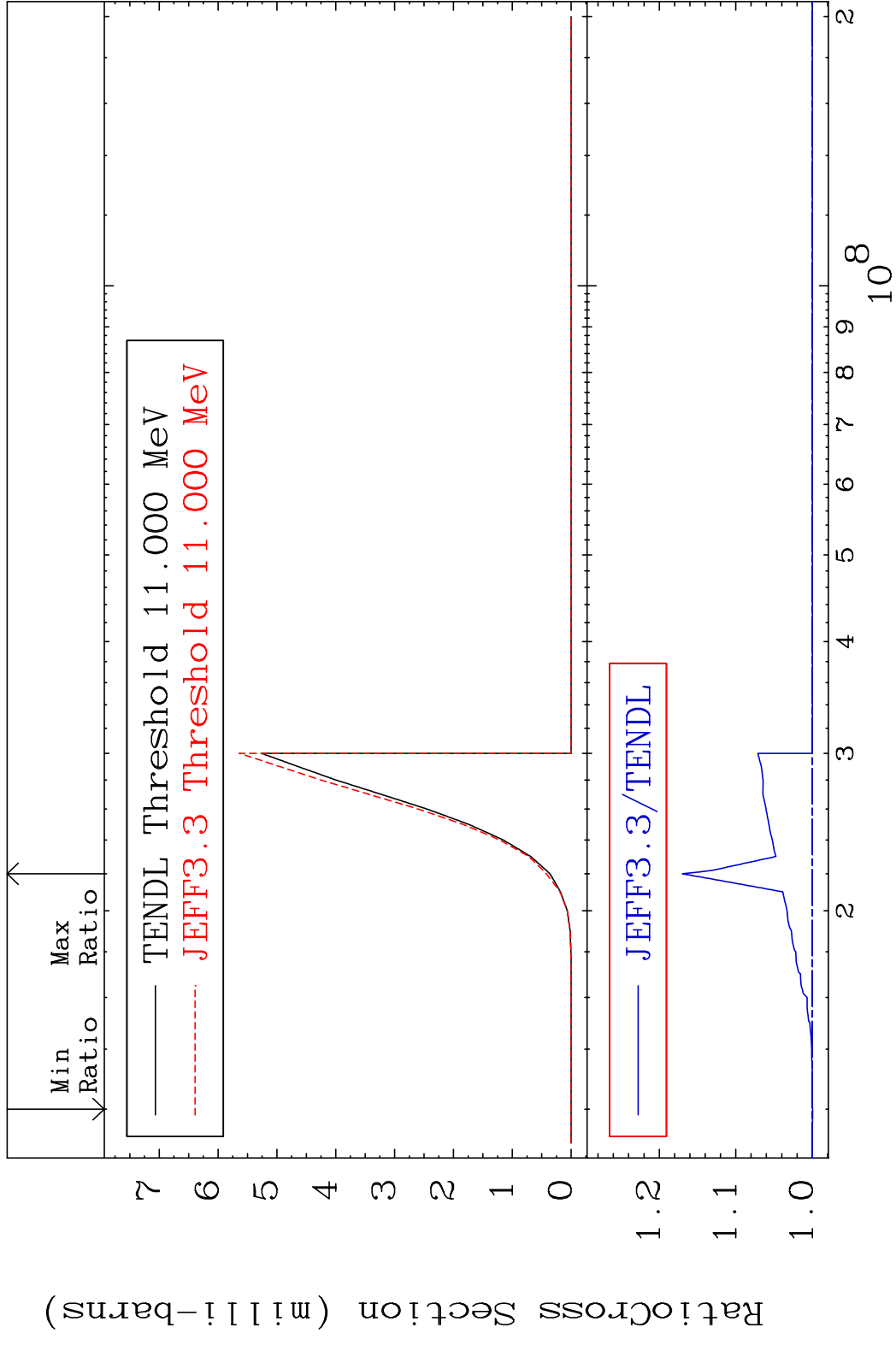
MAT 4125 (n,2n) p:39-Y -91g 41-Nb-93
 Radionuclide Production Cross Section 98.641 d10 197.9 %



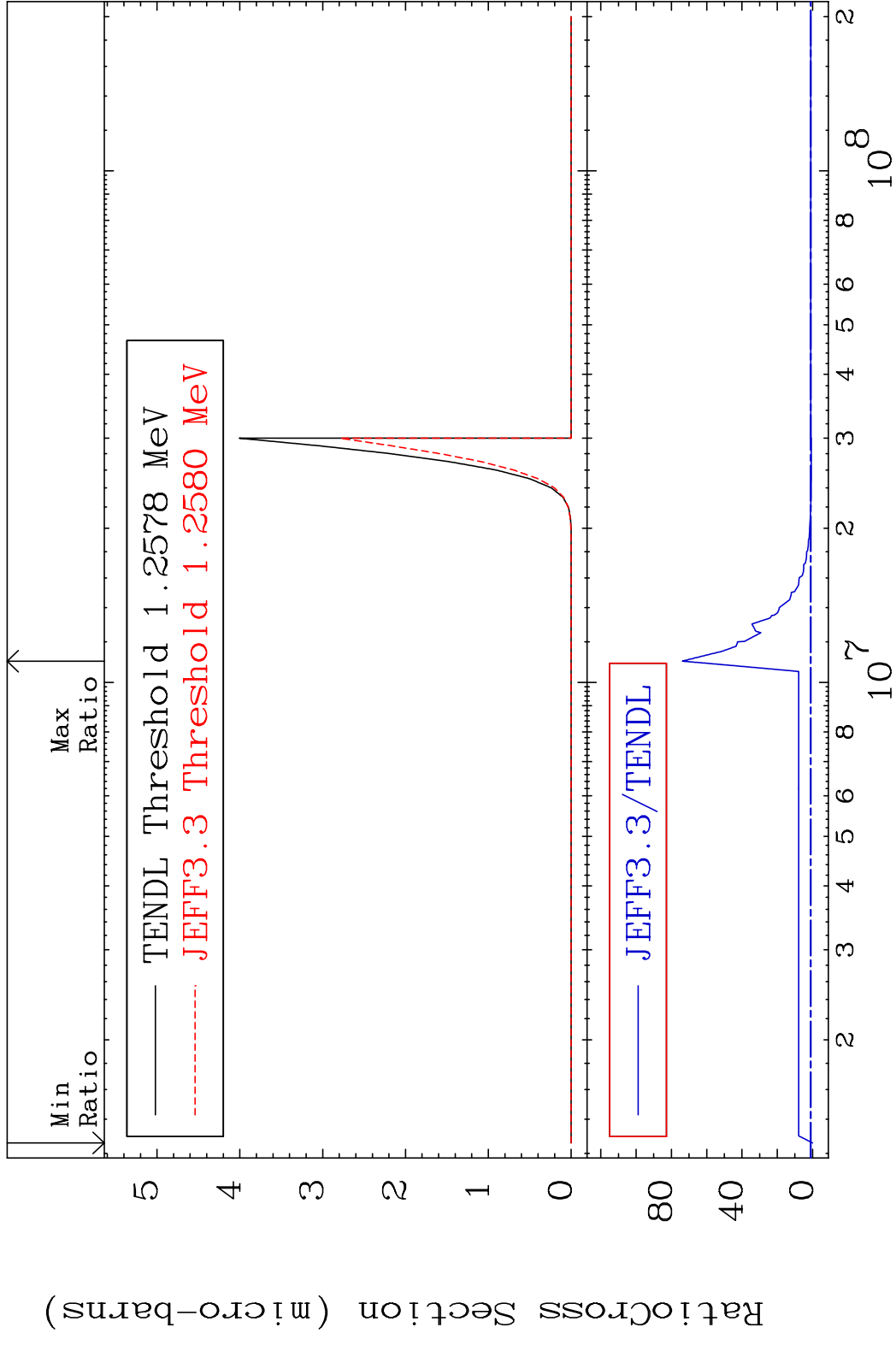
MAT 4125 (n,2n) p:39-Y -91m1 41-Nb-93
 Radionuclide Production Cross Section 1013. %

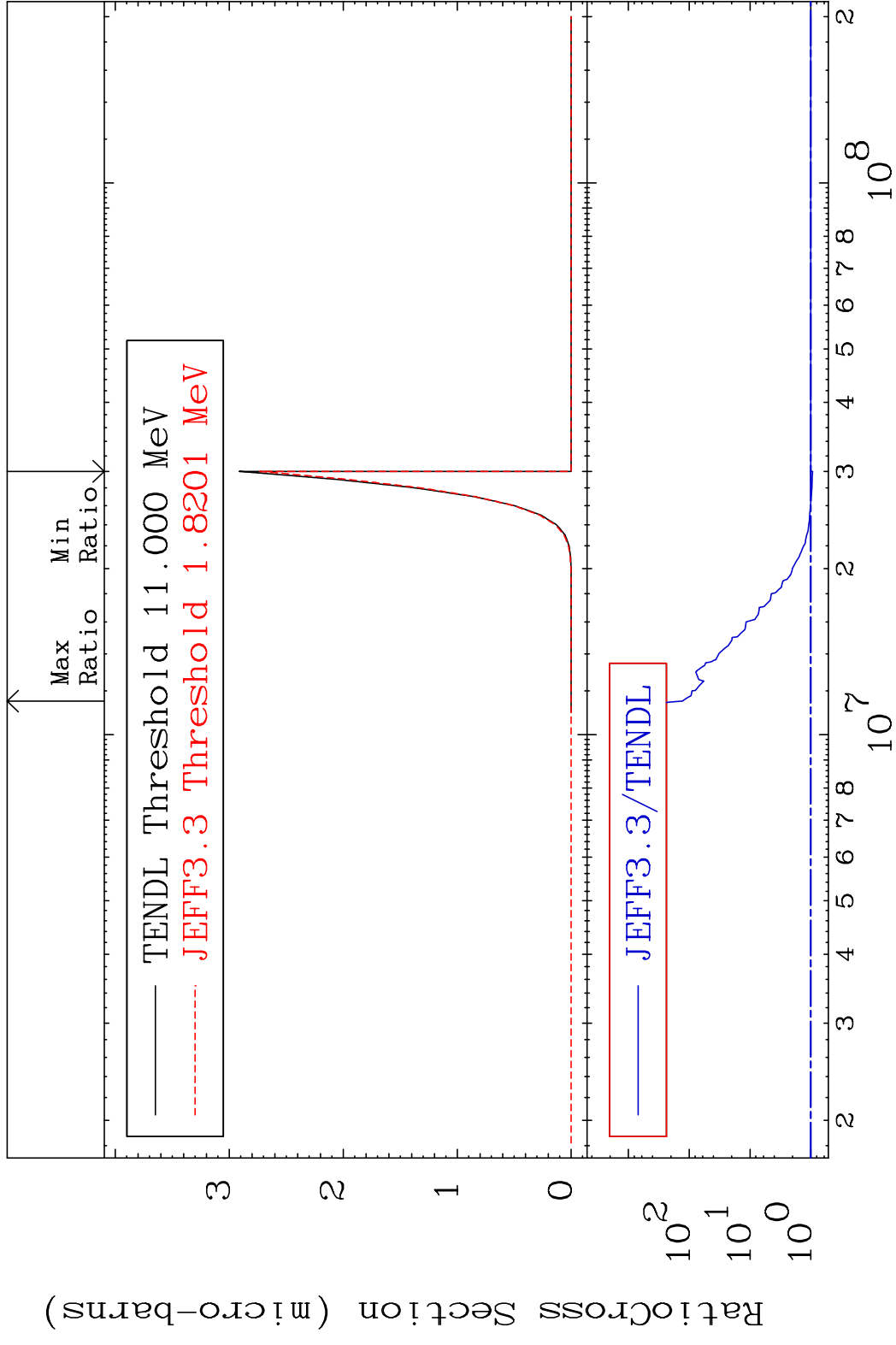


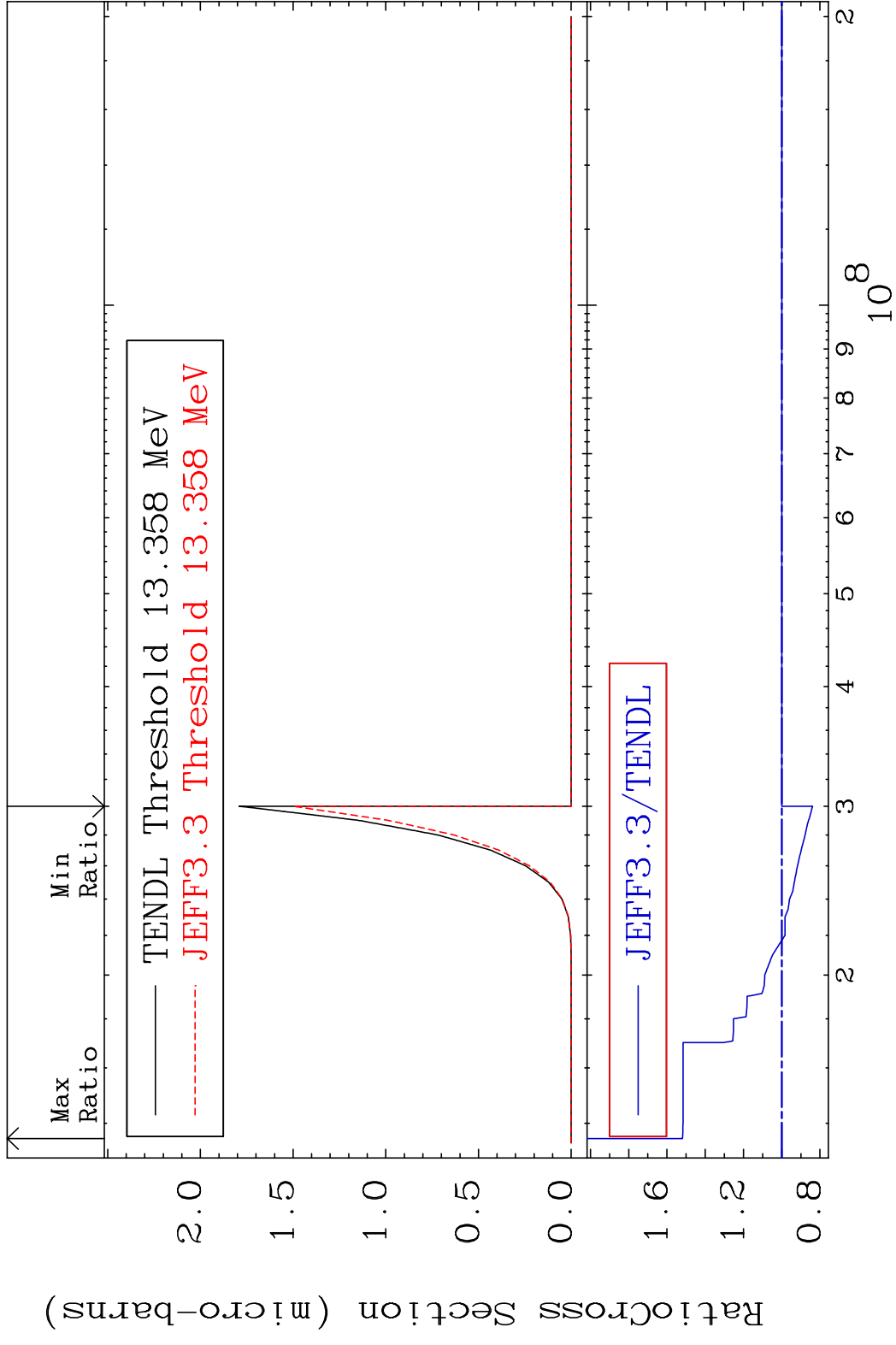


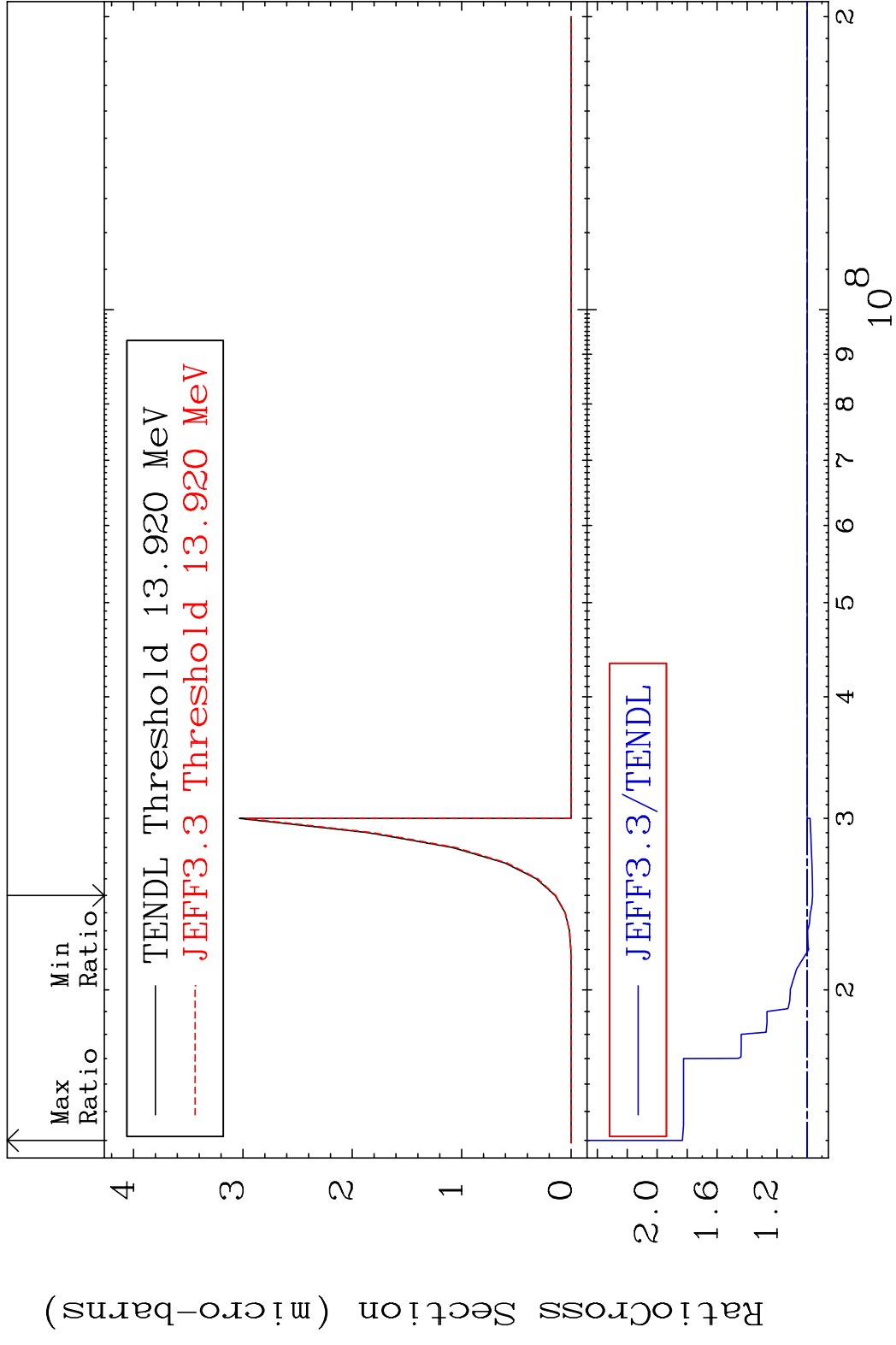


MAT 4125 (n,2α):37-Rb-86g 41-Nb-93
 Radionuclide Production Cross Section 180c0i d10 7279. %

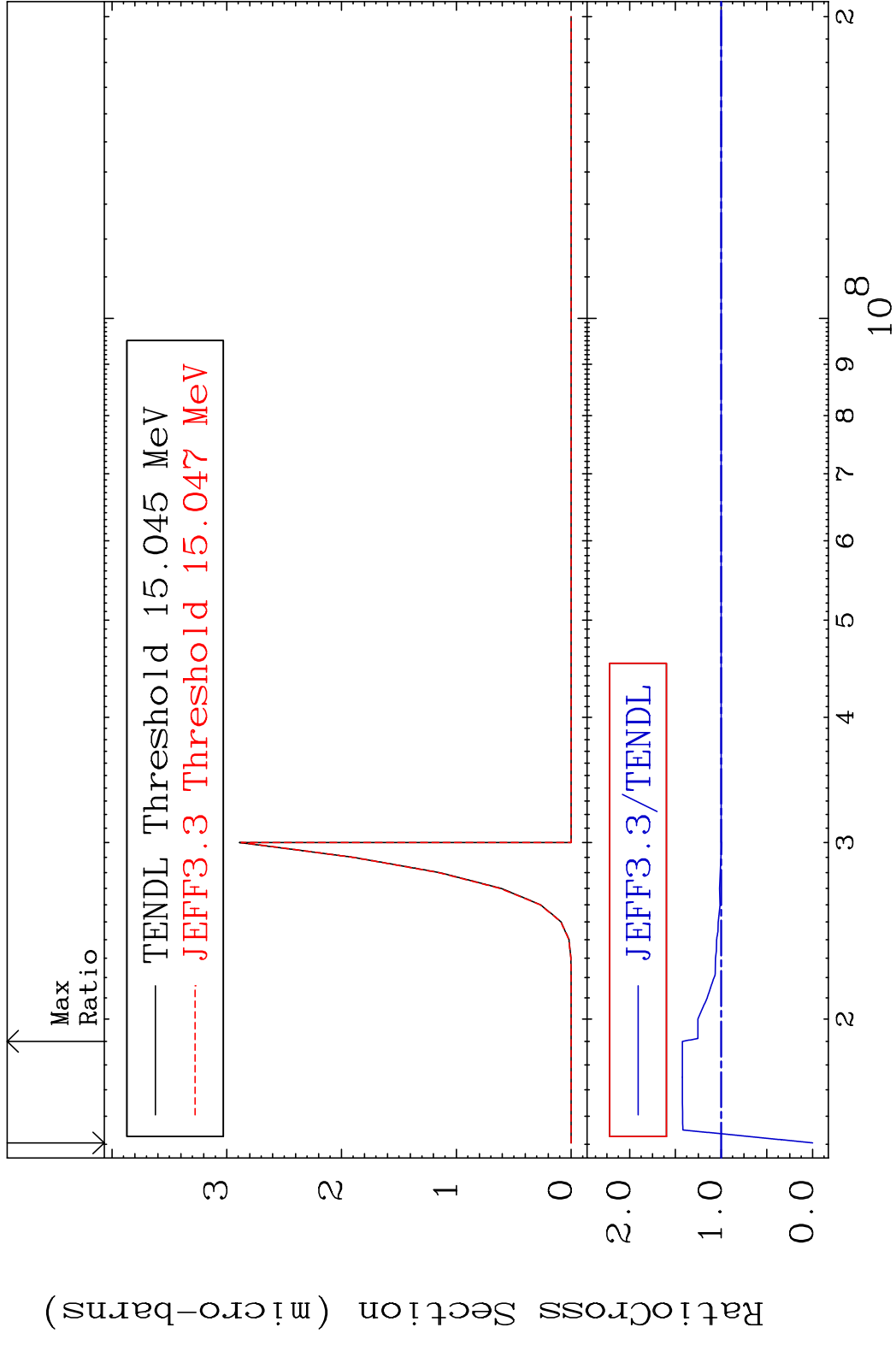








MAT 4125 (n, p) t:39-Y -90g 41-Nb-93
 Radionuclide Production Cross Section 180.01 dno 42.40 %



MAT 4125 (n,p) t:39-Y -90m2 41-Nb-93
 Radionuclide Production Cross Section 180.0 dth 33.25 %

