

Program Complot
(Version 2021-1)

by

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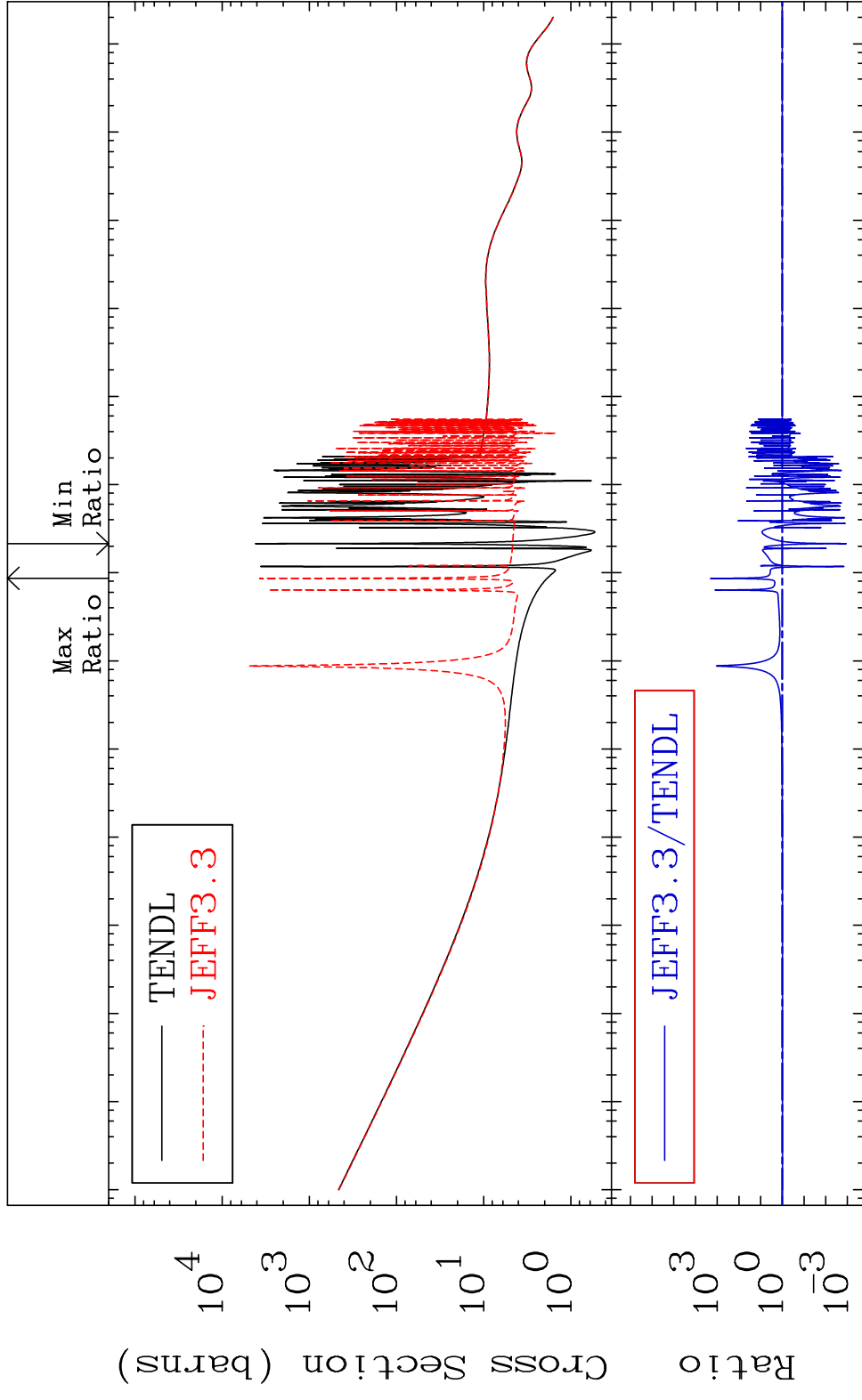
Press Mouse Button to Start

MAT 4119

41-Nb-91

Total

Cross Section -99.89 To 9999. %



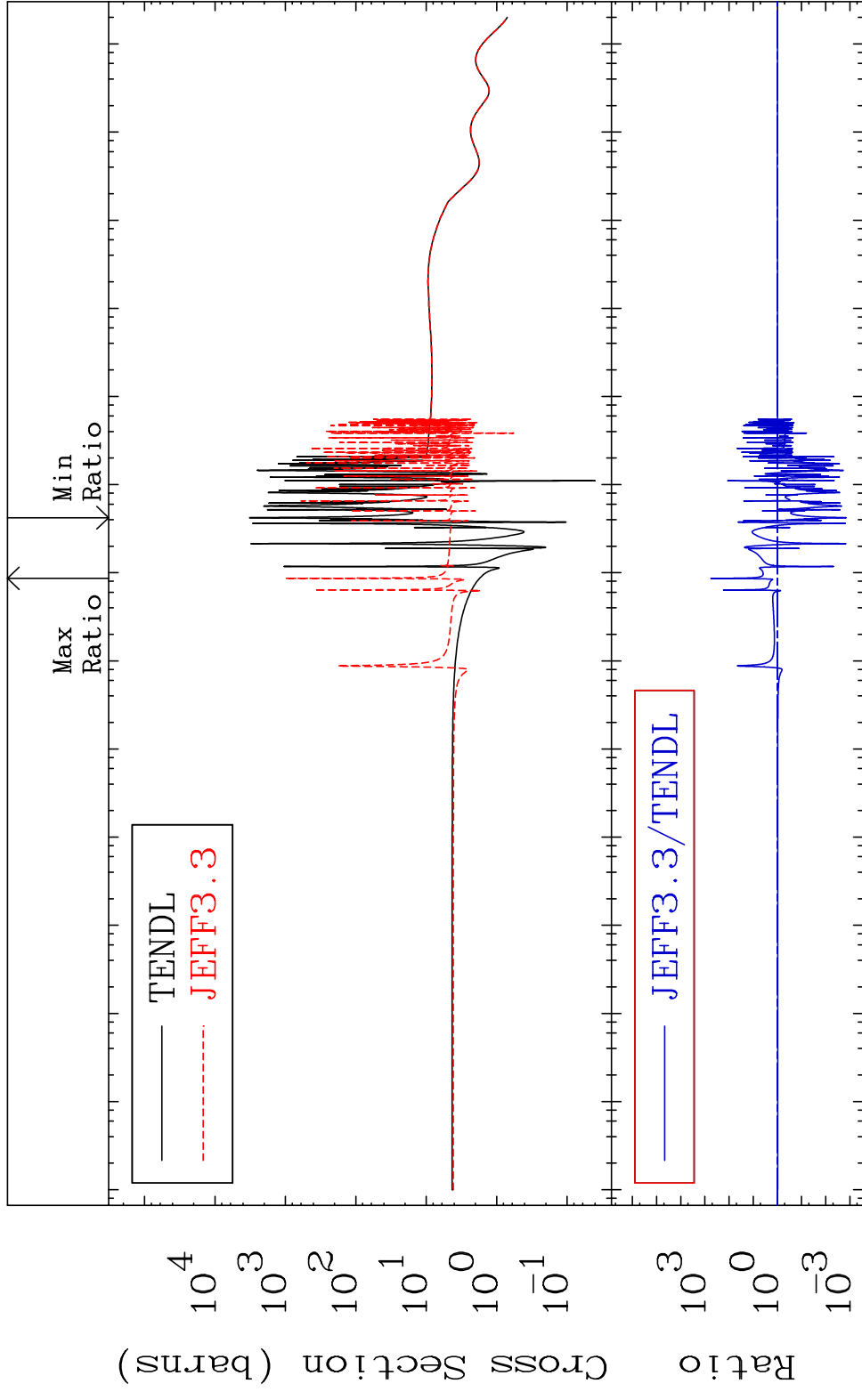
1

Incident Energy (eV)

41-Nb-91

MAT 4119

Elastic Cross Section -99.86 To 9999. % 41-Nb-91



2

Incident Energy (eV)

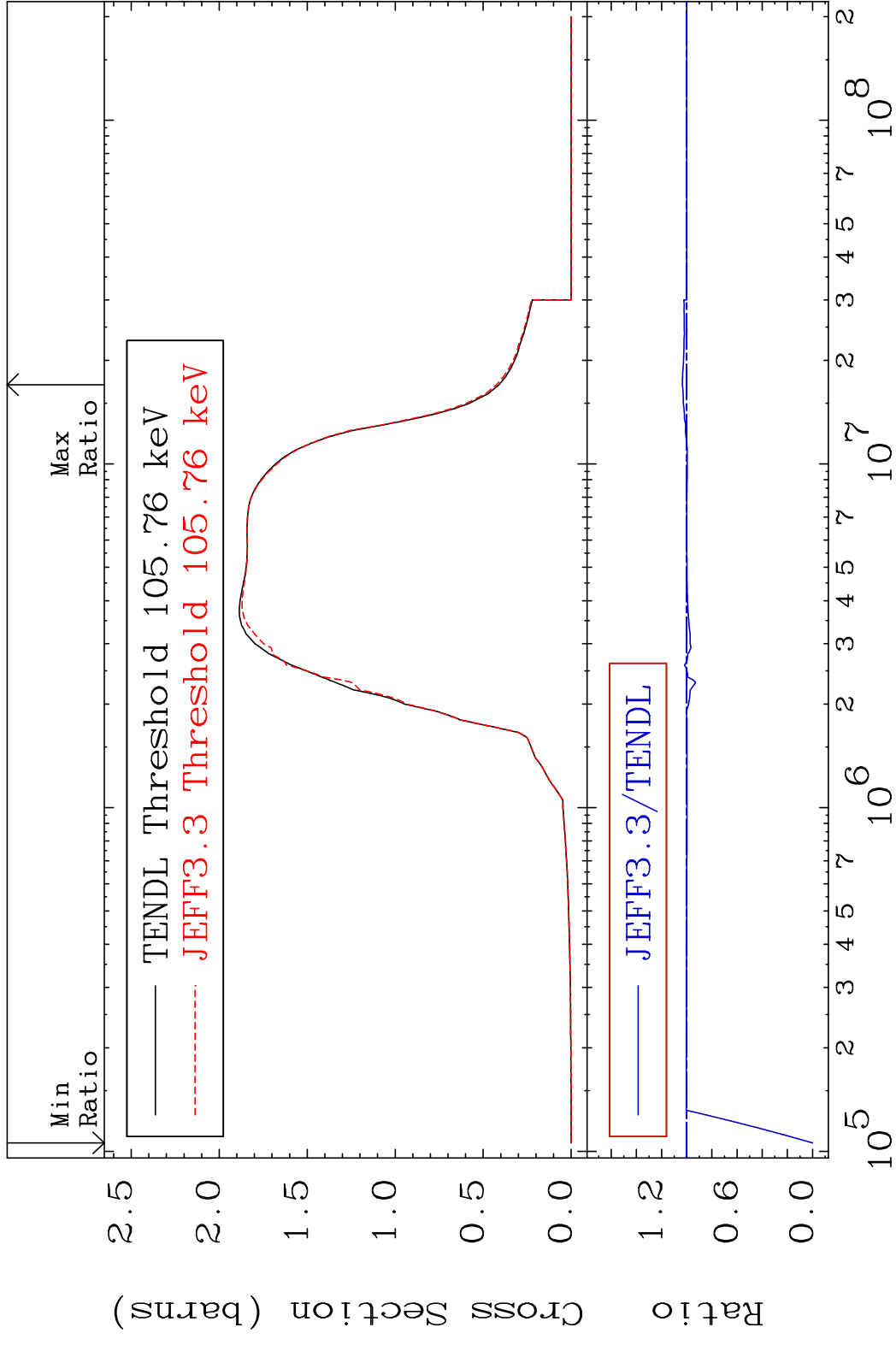
41-Nb-91

MAT 4119

Inelastic

41-Nb-91

Cross Section -100.0 To 3.485 %

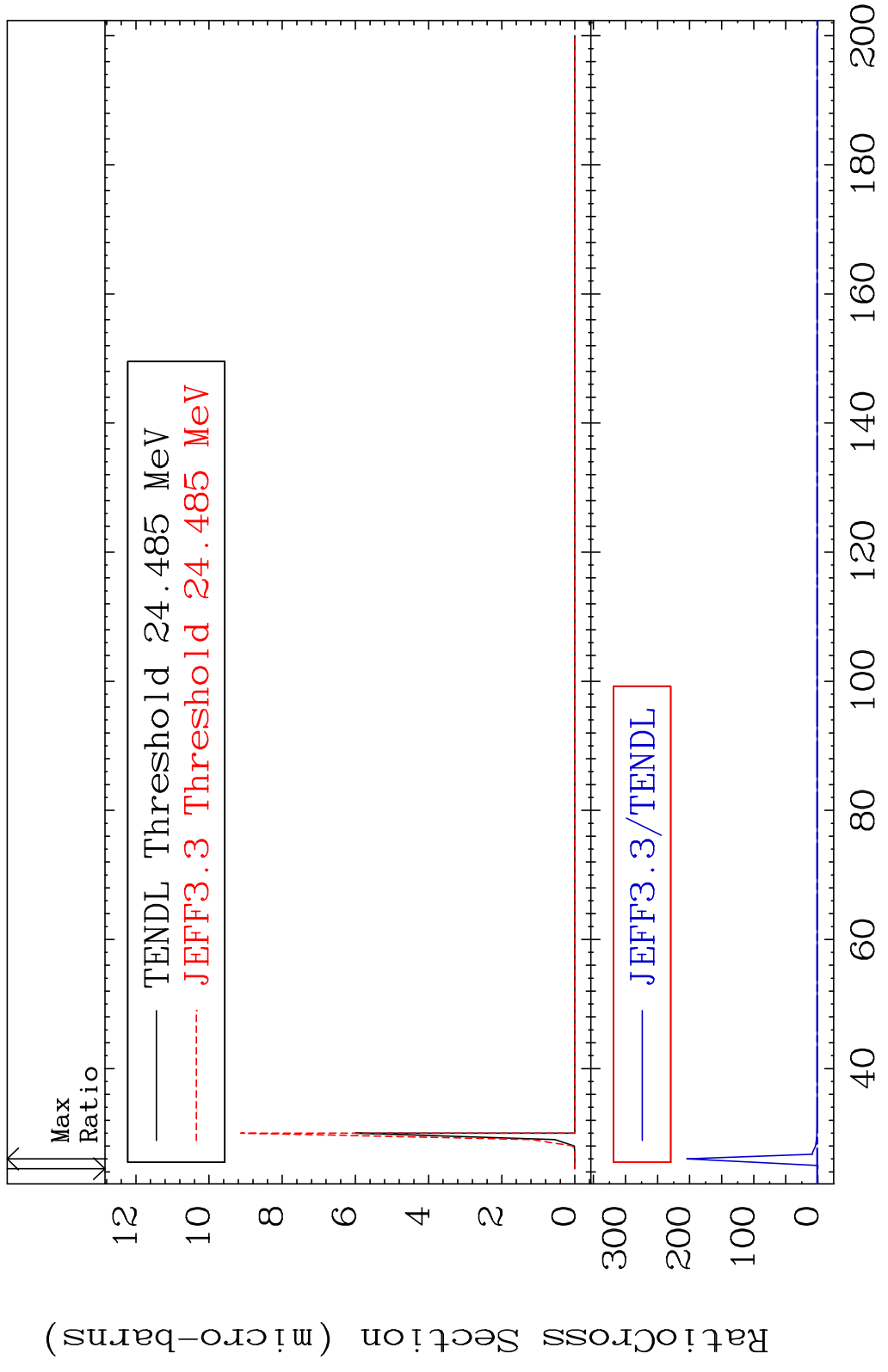


3

Incident Energy (eV)

41-Nb-91

MAT 4119 (n,2n) d 41-Nb-91
Cross Section -100.0 To 9999. %

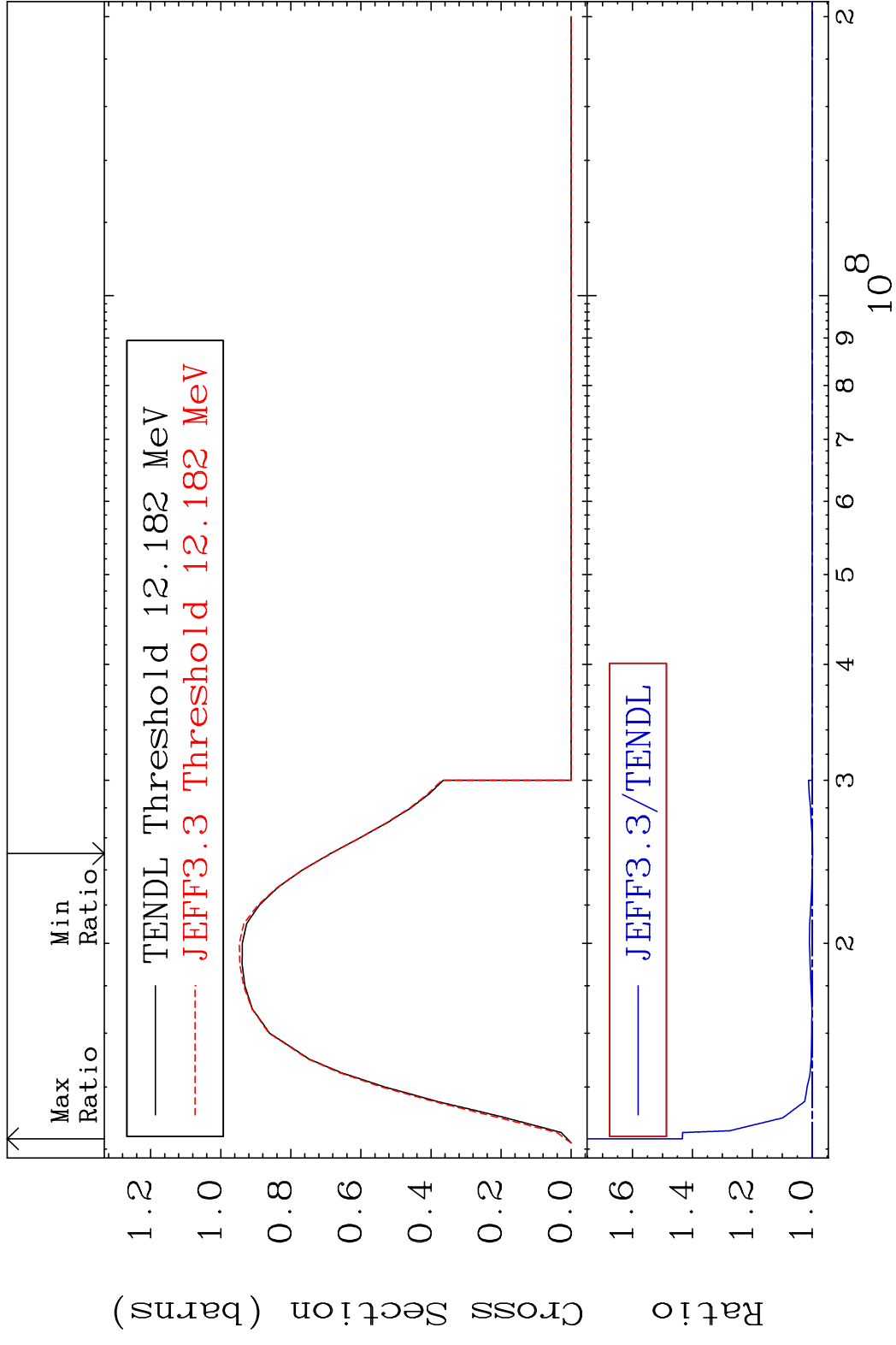


MAT 4119

(n,2n)

41-Nb-91

Cross Section -0.112 To 43.37 %

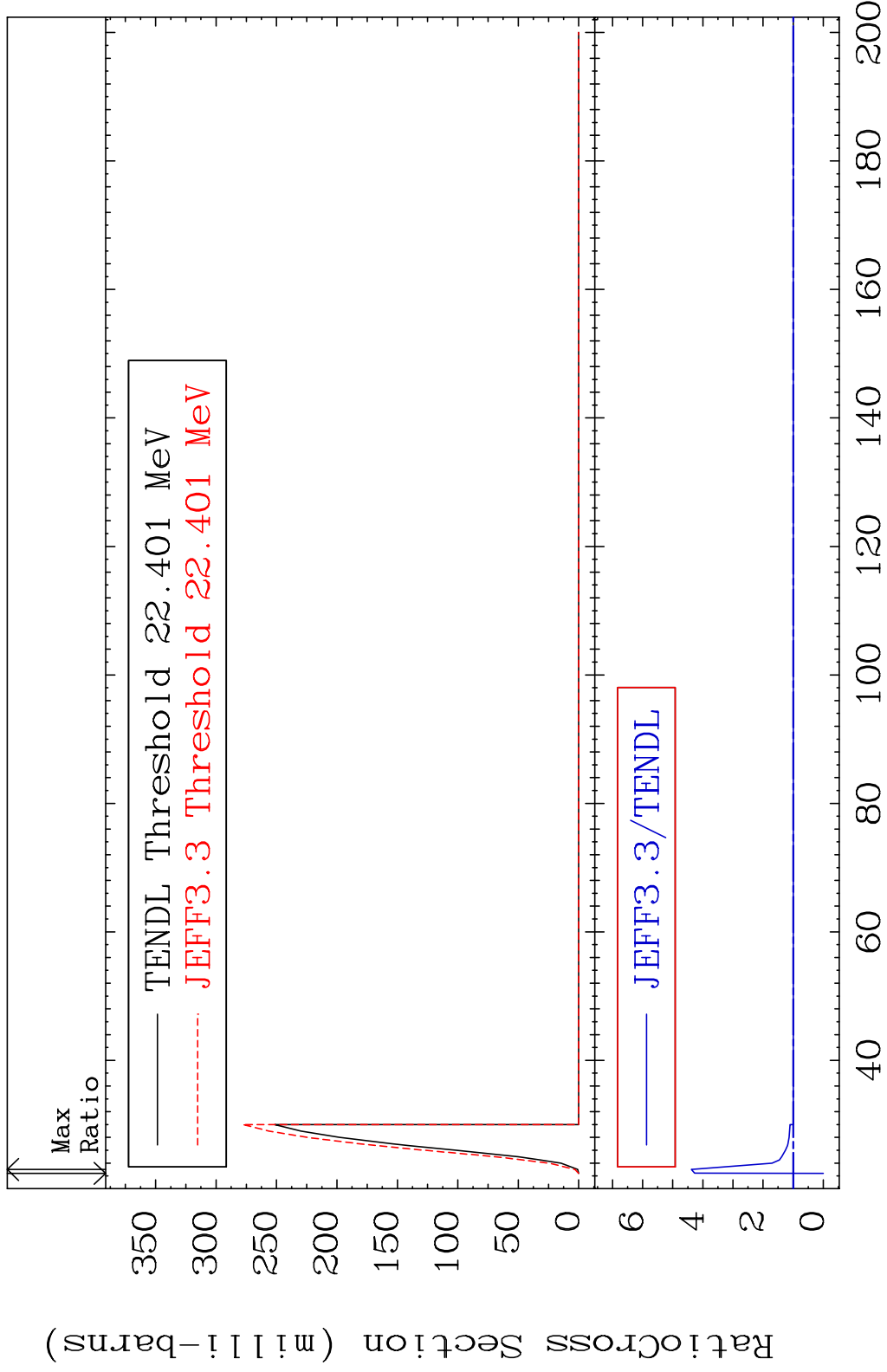


MAT 4119

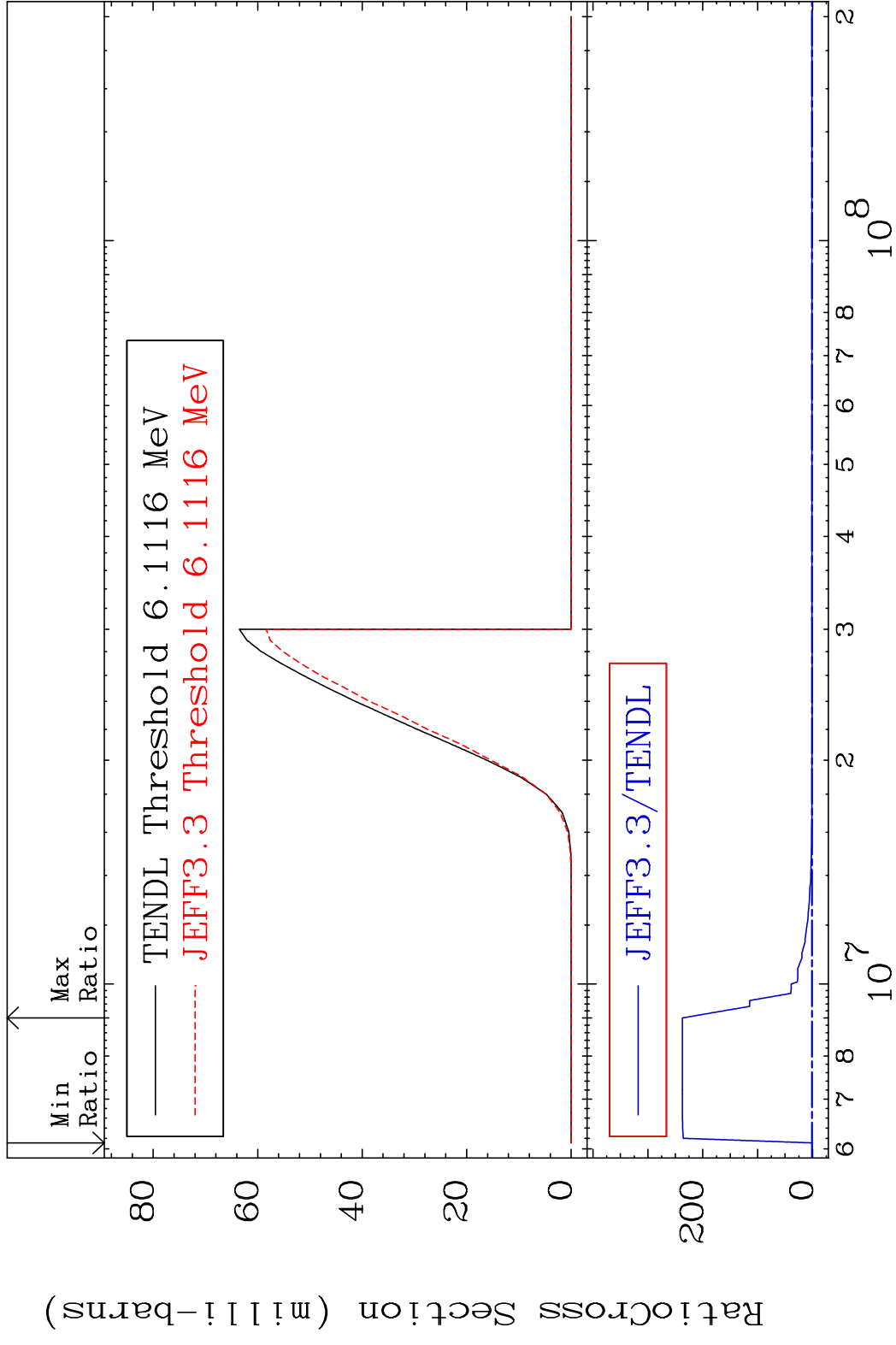
(n,3n)

41-Nb-91

Cross Section -100.0 To 338.3 %



MAT 4119 (n, n') α 41-Nb-91
 Cross Section -100.0 To 9999. %



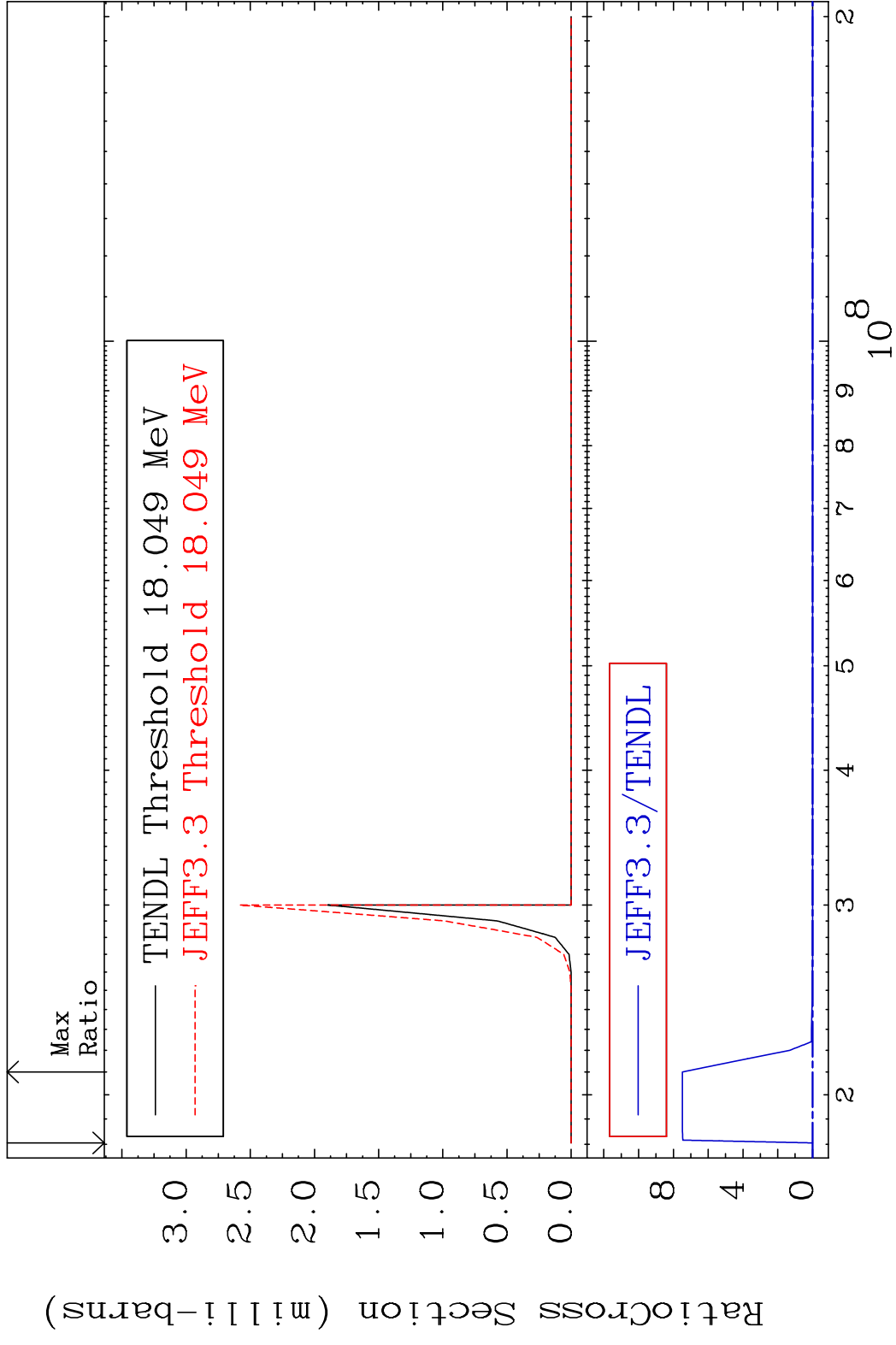
7 41-Nb-91

MAT 4119

(n,2n) α

41-Nb-91

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

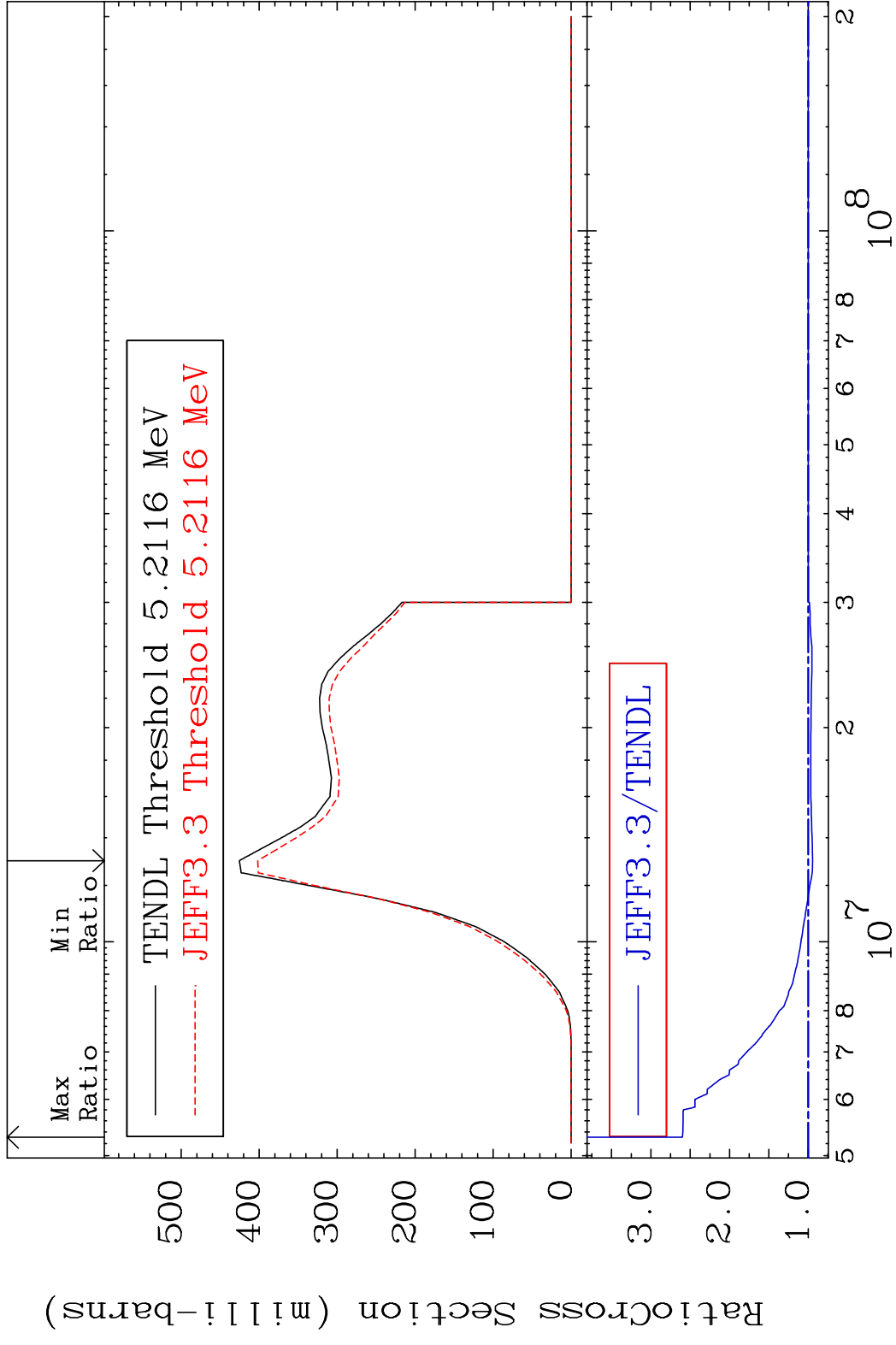
41-Nb-91

MAT 4119

(n, n') p

41-Nb-91

Cross Section -5.567 To 160.0 %



9

Incident Energy (eV)

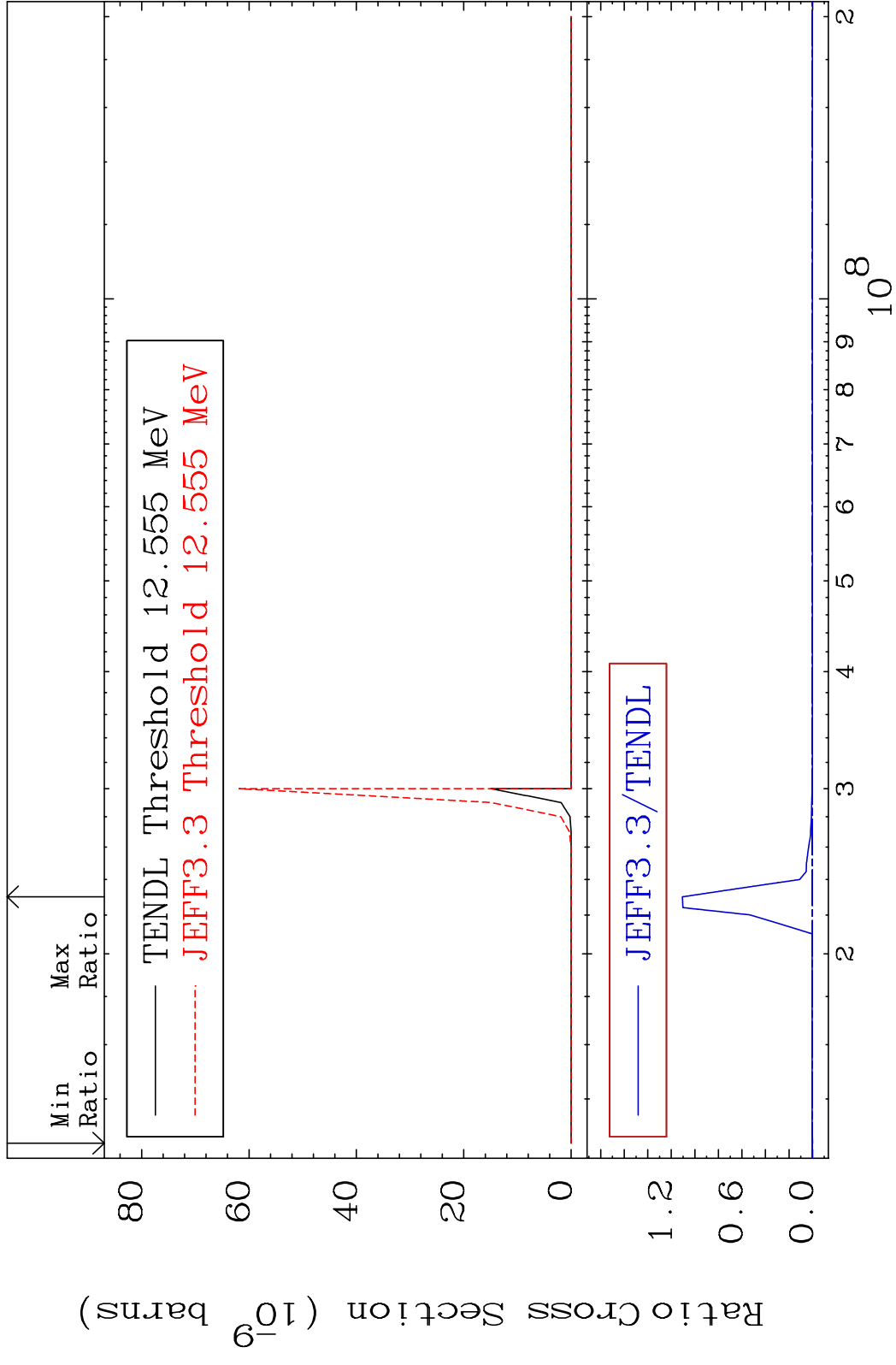
41-Nb-91

MAT 4119

(n, n') 2 α

41-Nb-91

Cross Section -100.0 To 9999. %

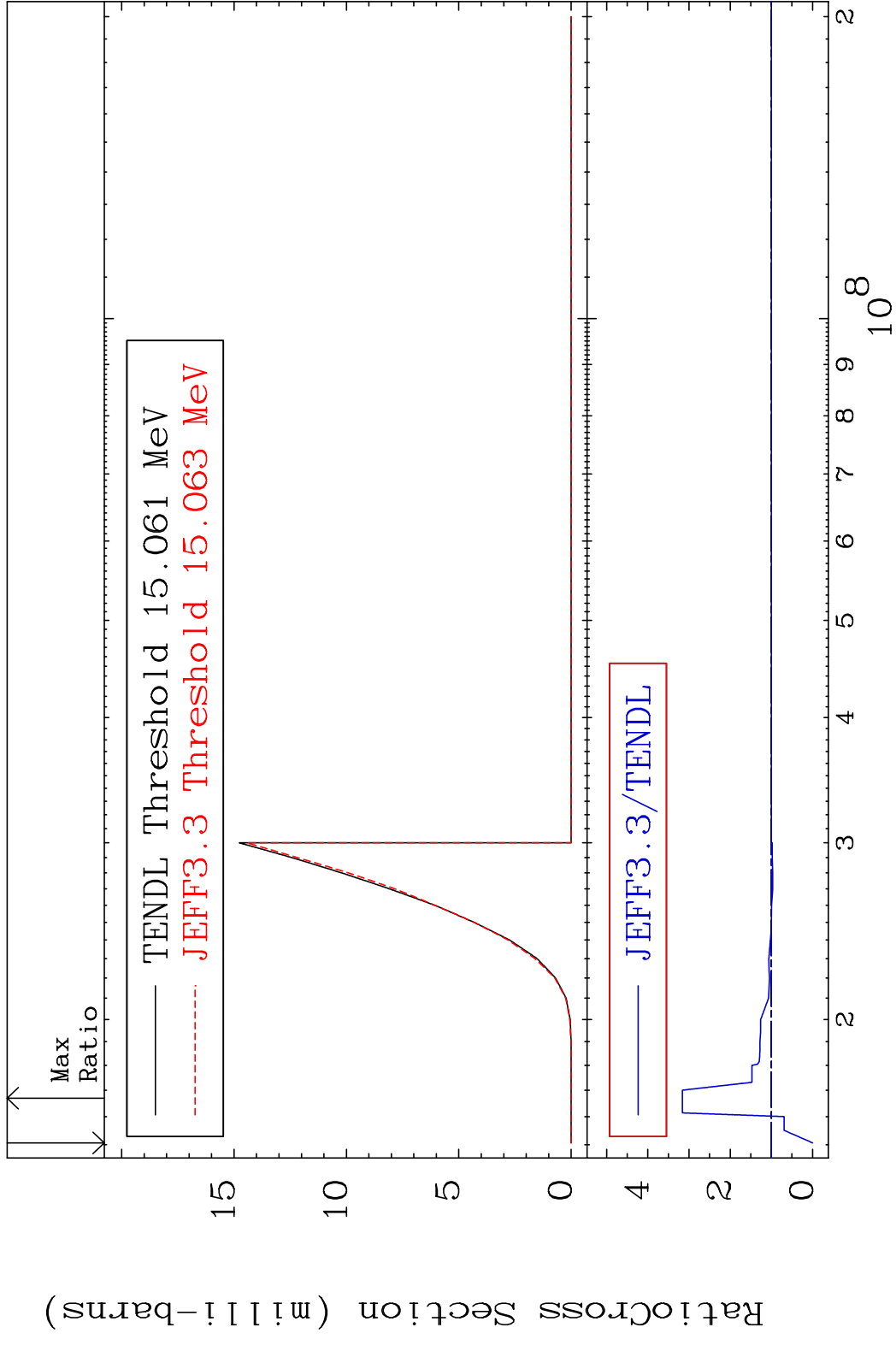


10

Incident Energy (eV)

41-Nb-91

MAT 4119 (n, n') d 41-Nb-91
 Cross Section -100.0 To 216.1 %

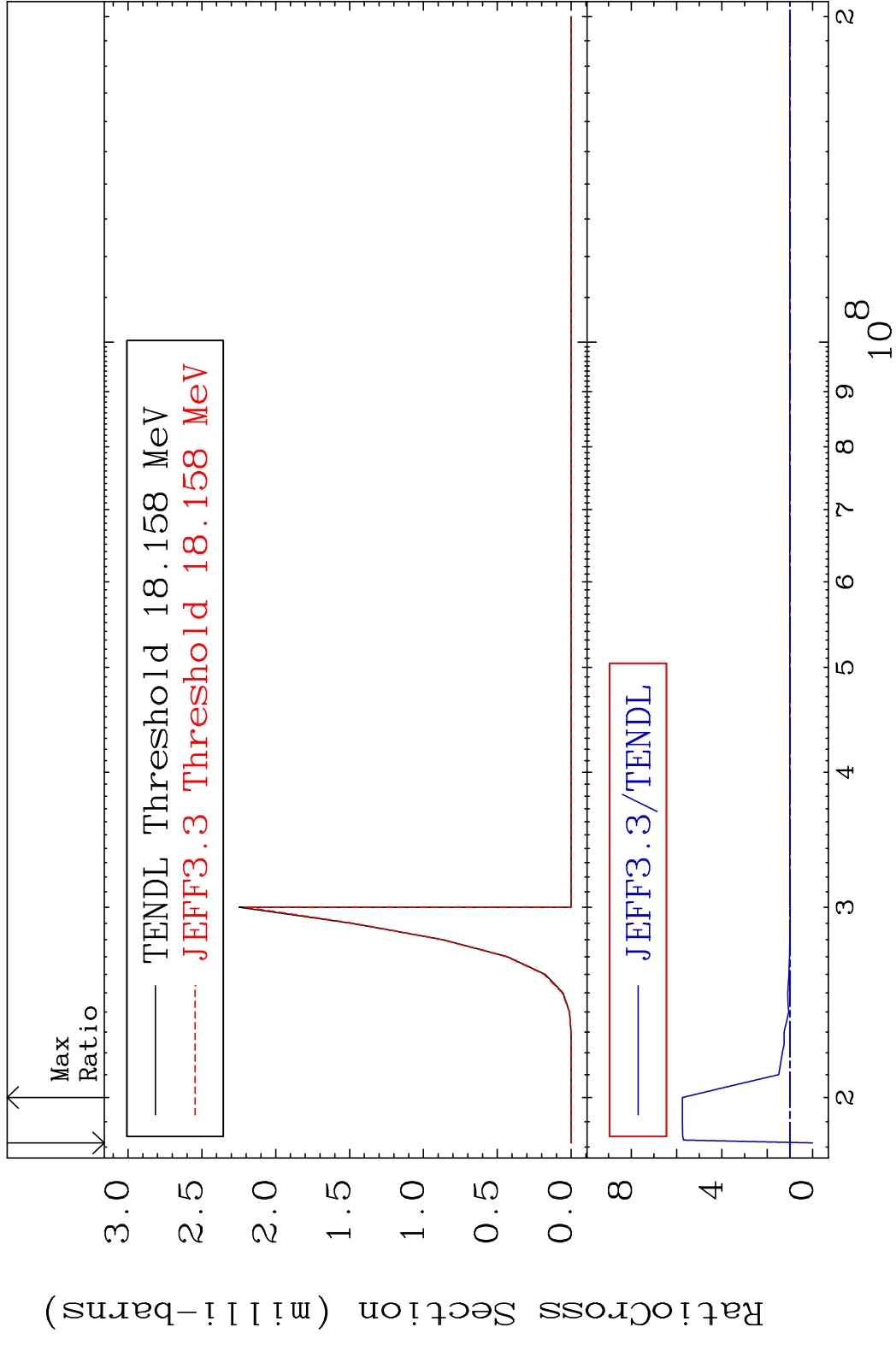


MAT 4119

(n, n') t

41-Nb-91

Cross Section -100.0 To 474.5 %

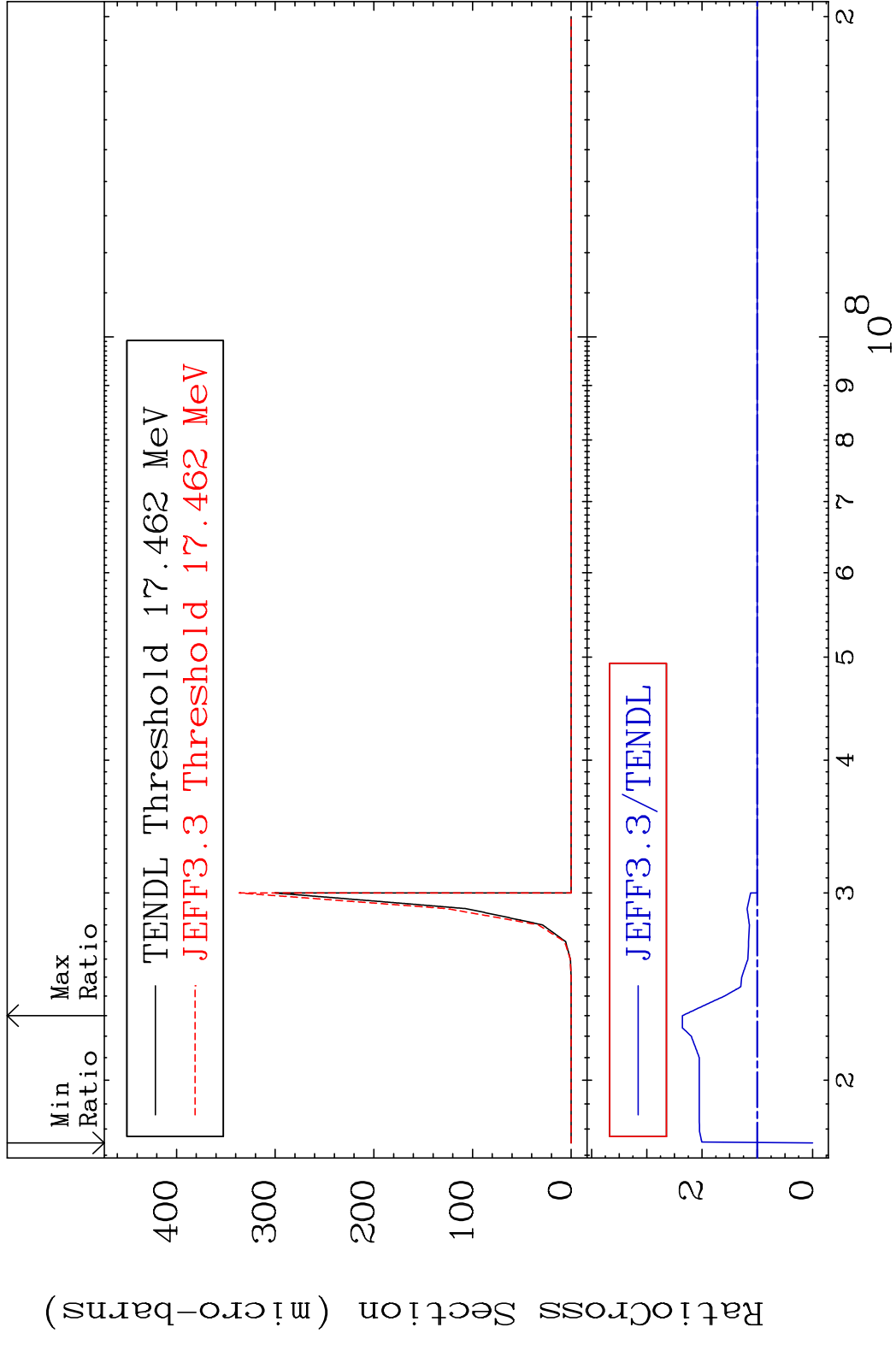


MAT 4119

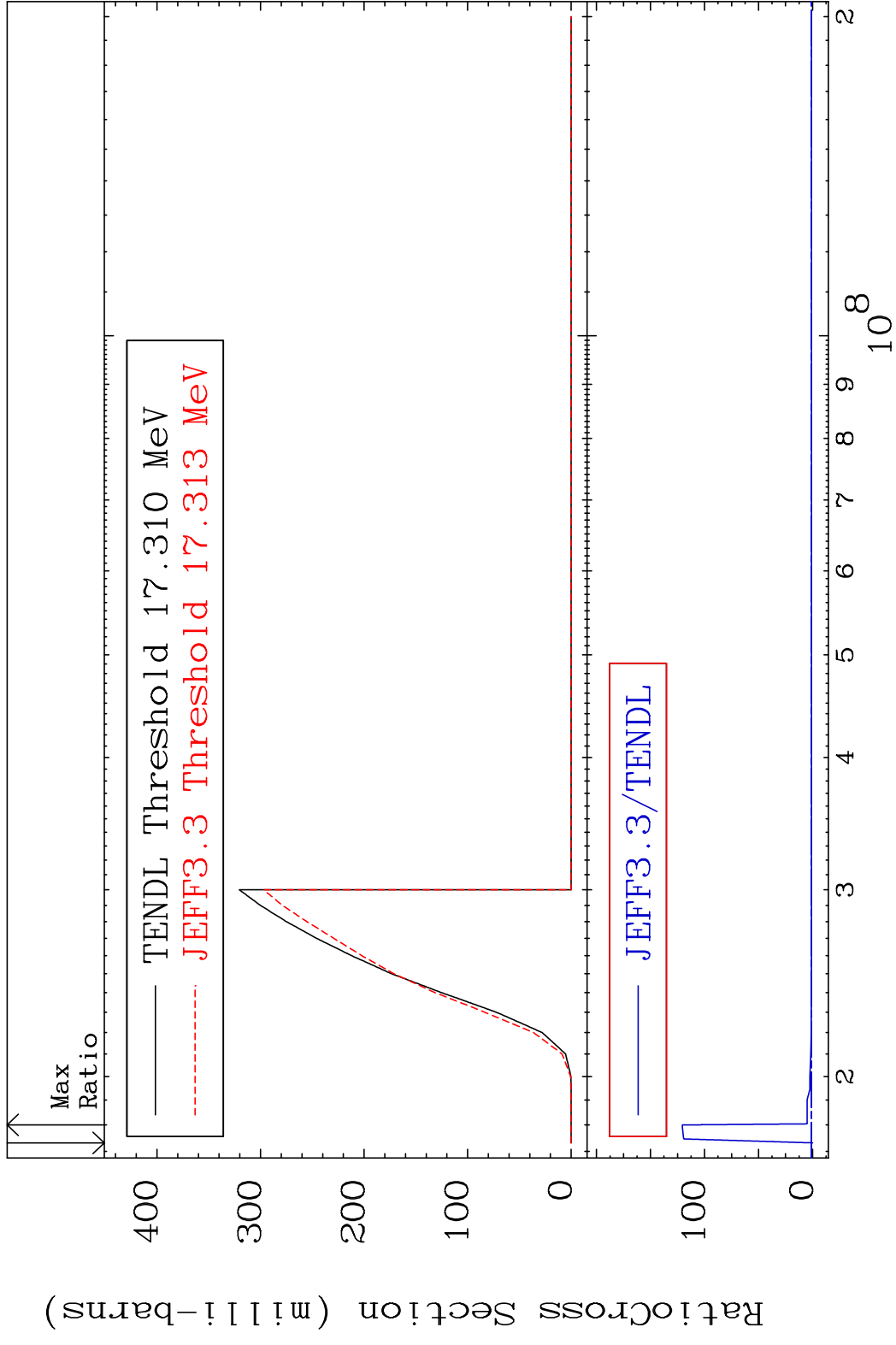
(n,n') He-3

41-Nb-91

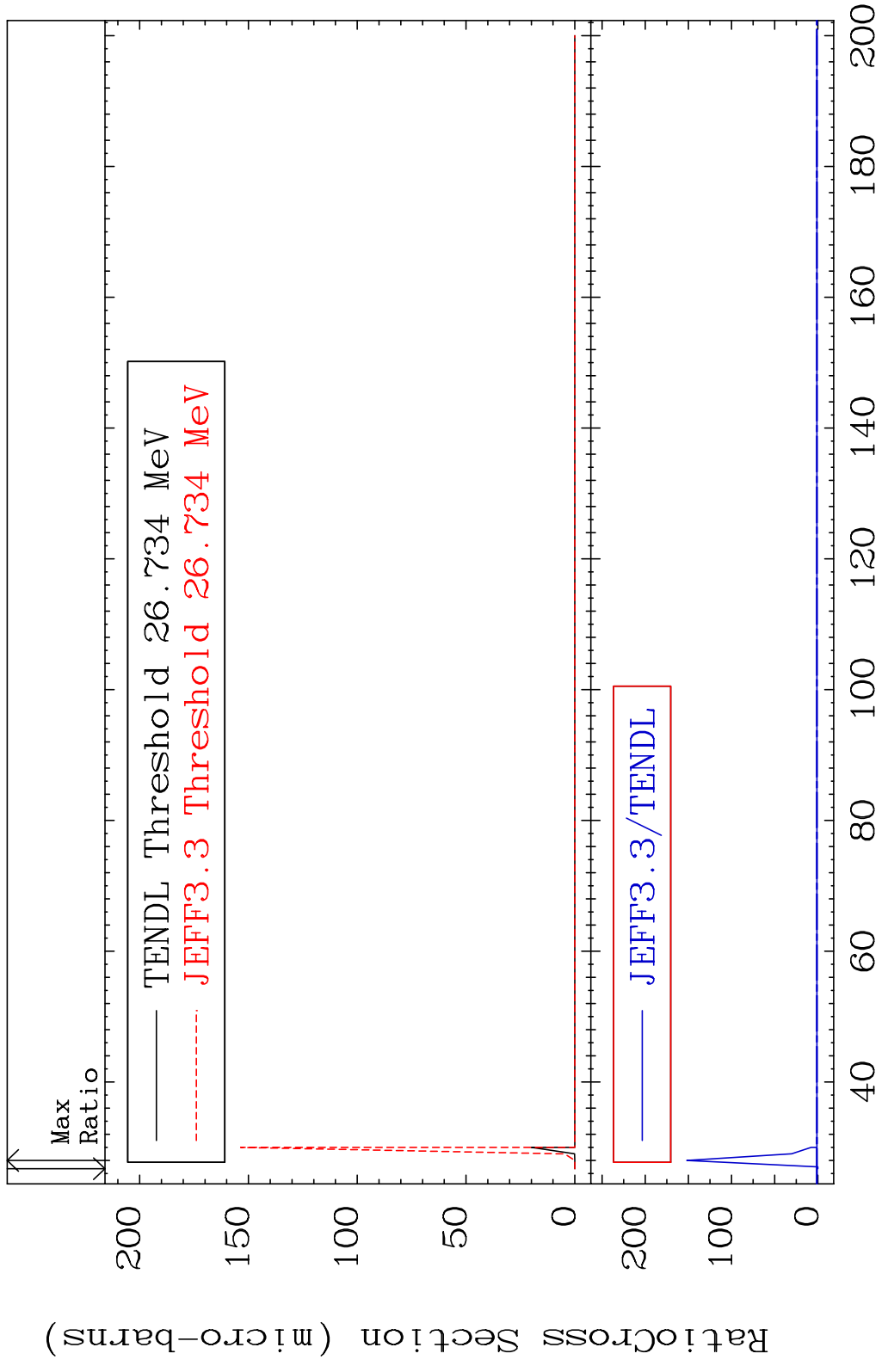
Cross Section -100.0 To 135.6 %



MAT 4119 (n,2n) p 41-Nb-91
 Cross Section -100.0 To 9999. %



MAT 4119 (n,3n) p 41-Nb-91
Cross Section -100.0 To 9999. %

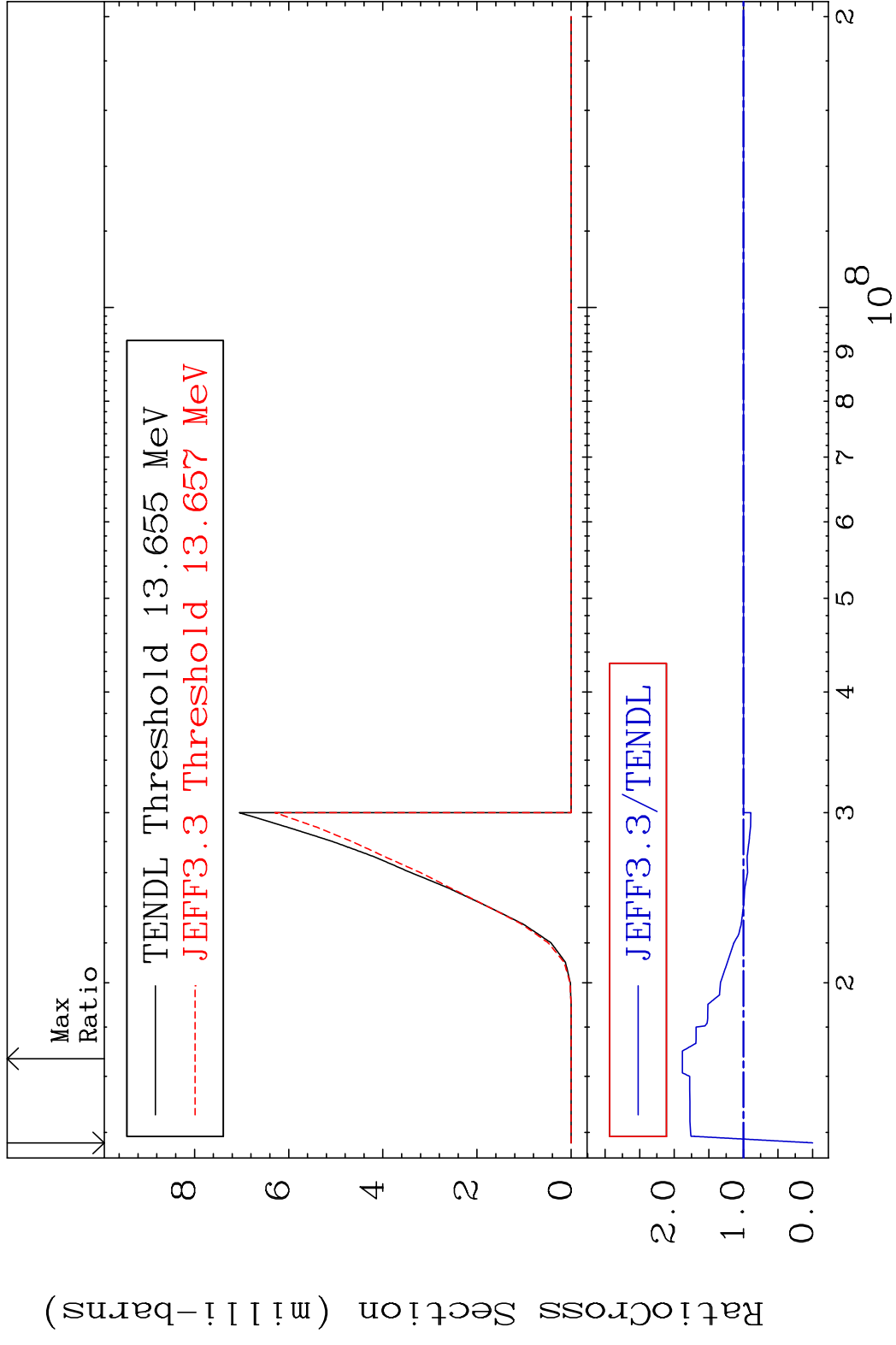


MAT 4119

(n,2n) p

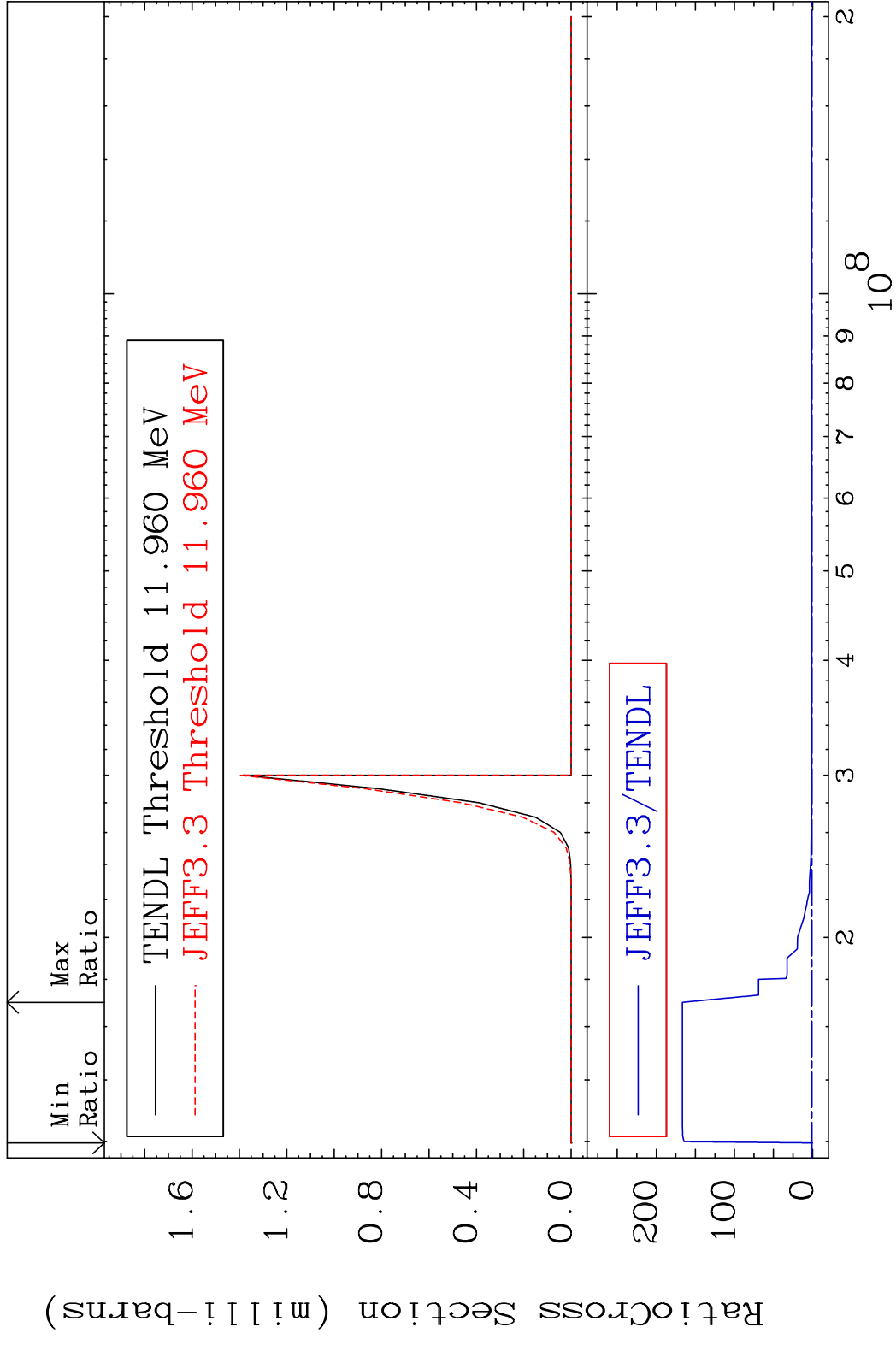
41-Nb-91

Cross Section -100.0 To 88.26 %

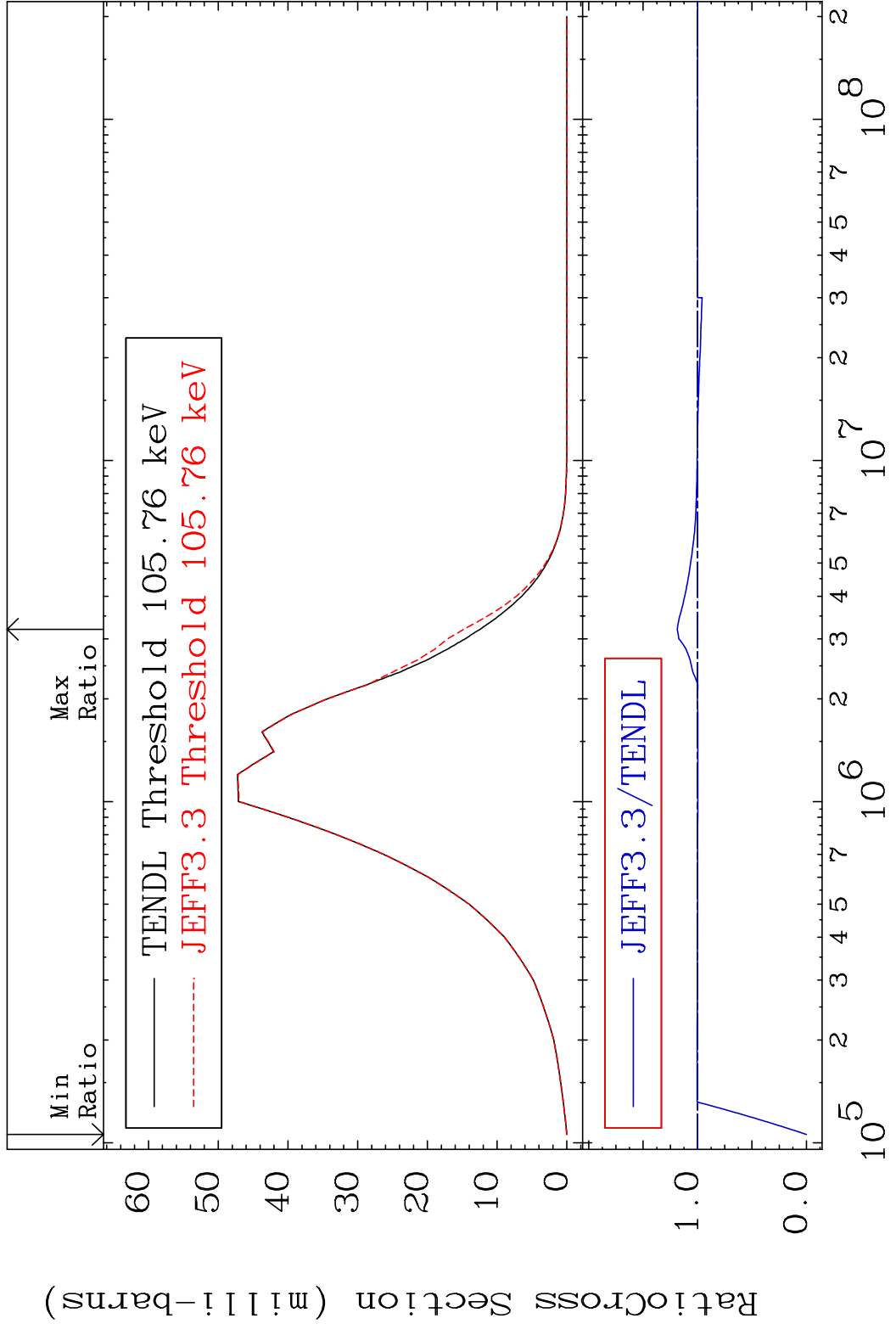


MAT 4119

(n,n') p α 41-Nb-91
Cross Section -100.0 To 9999. %

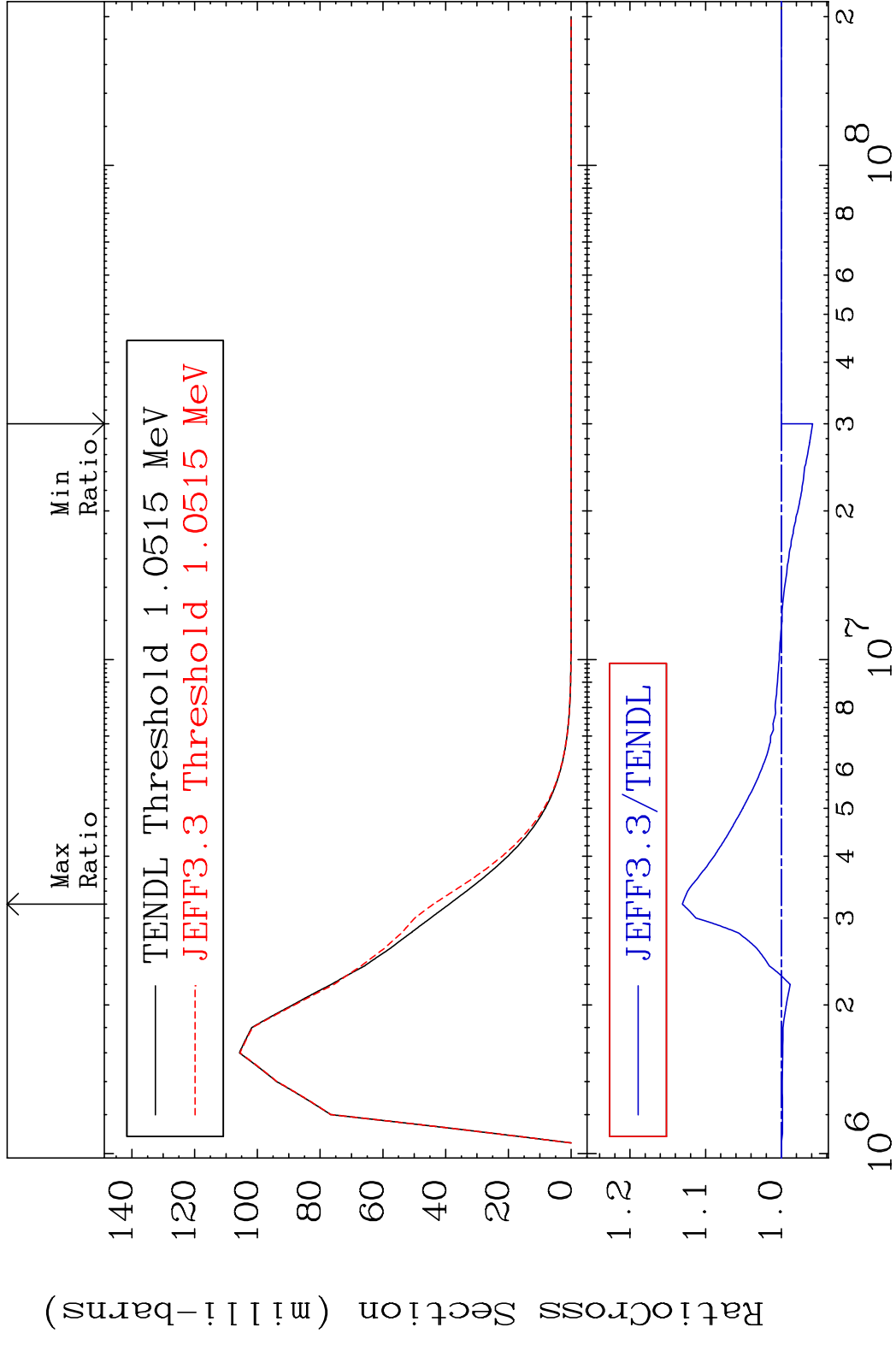


MAT 4119 MT= 51 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 18.72 %



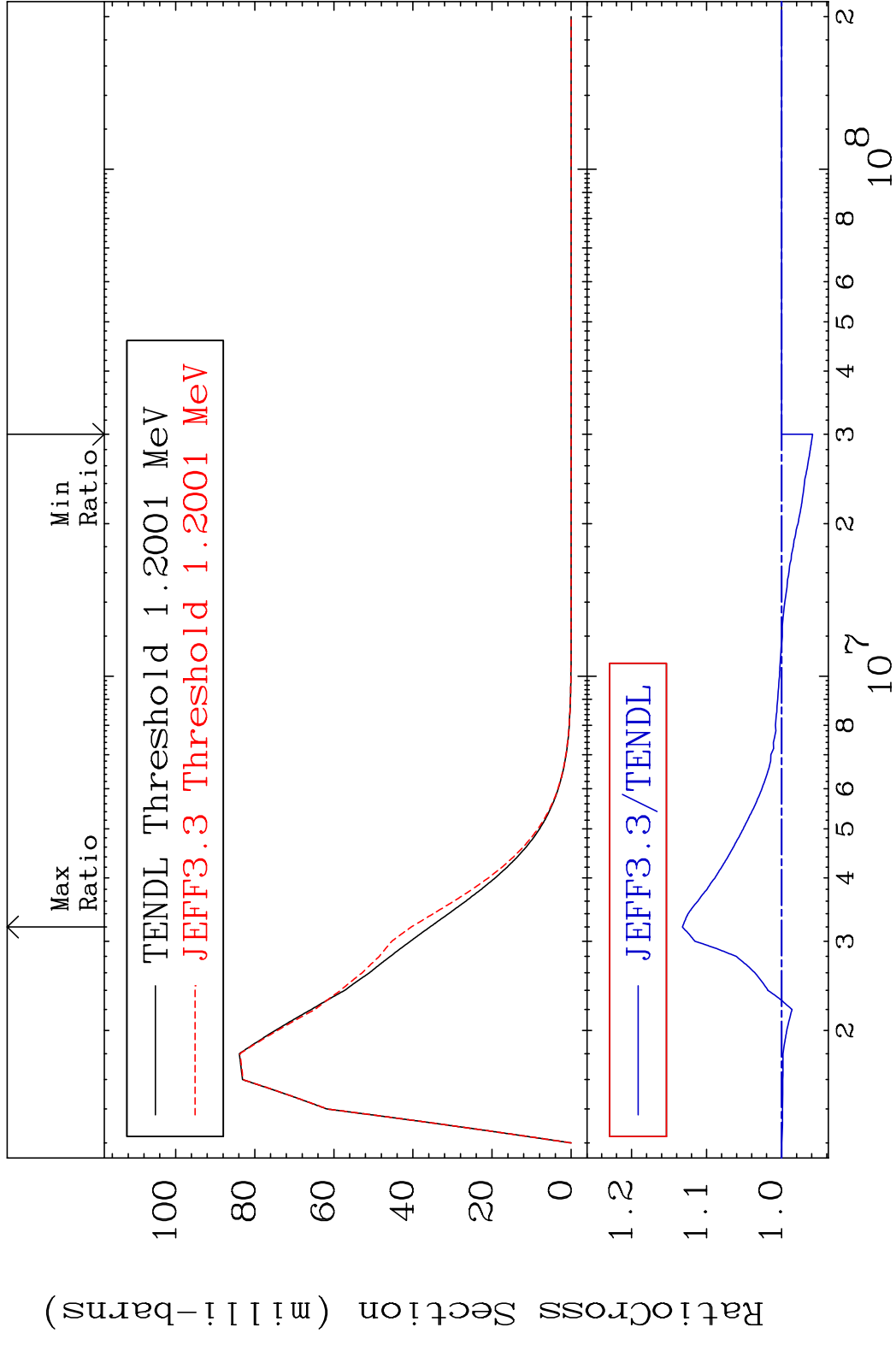
18 18 Incident Energy (eV) 41-Nb-91

MAT 4119 MT= 52 (n, n') Level 41-Nb-91
 Cross Section -4.120 To 13.08 %

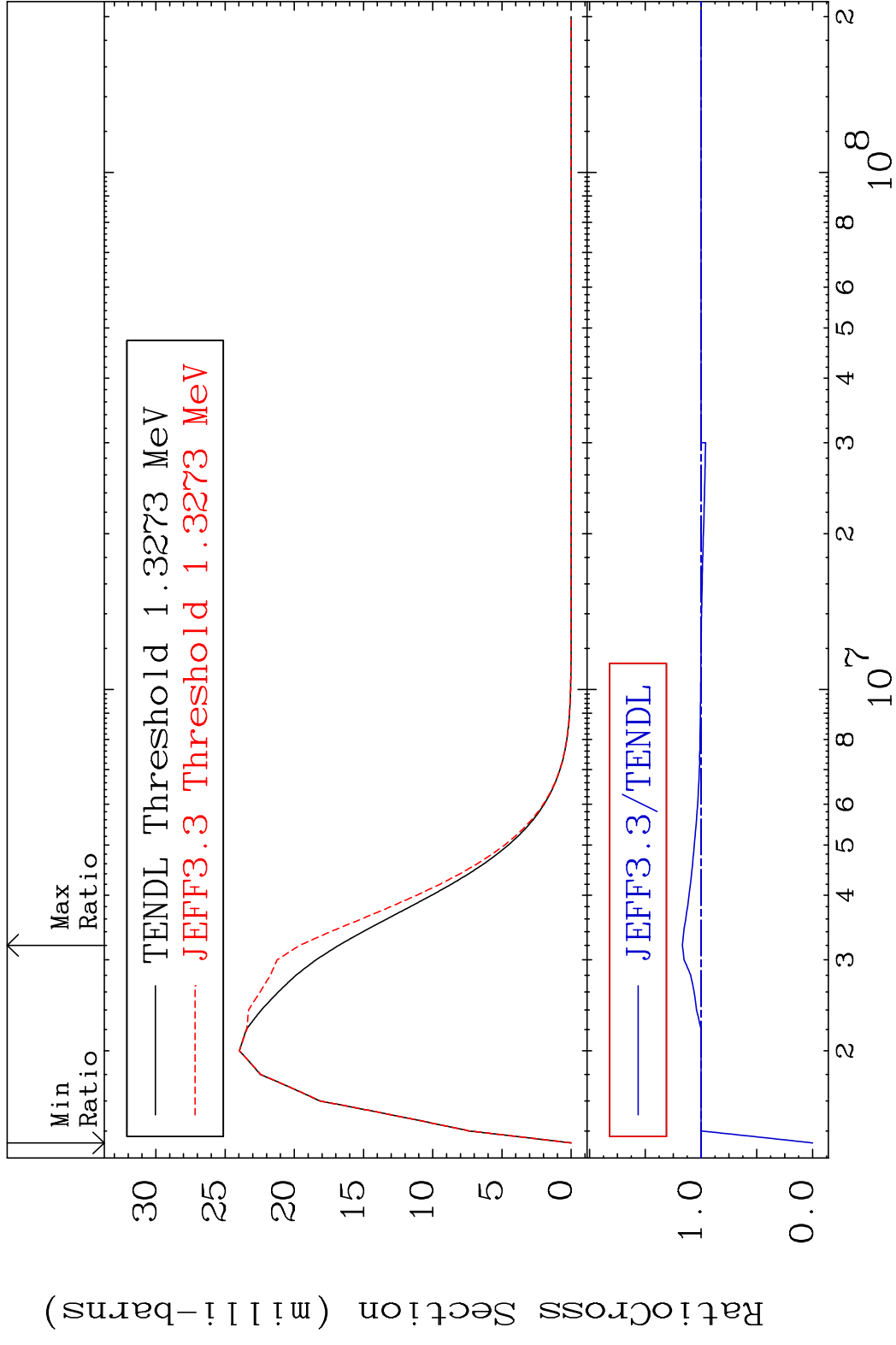


19 Incident Energy (eV) 41-Nb-91

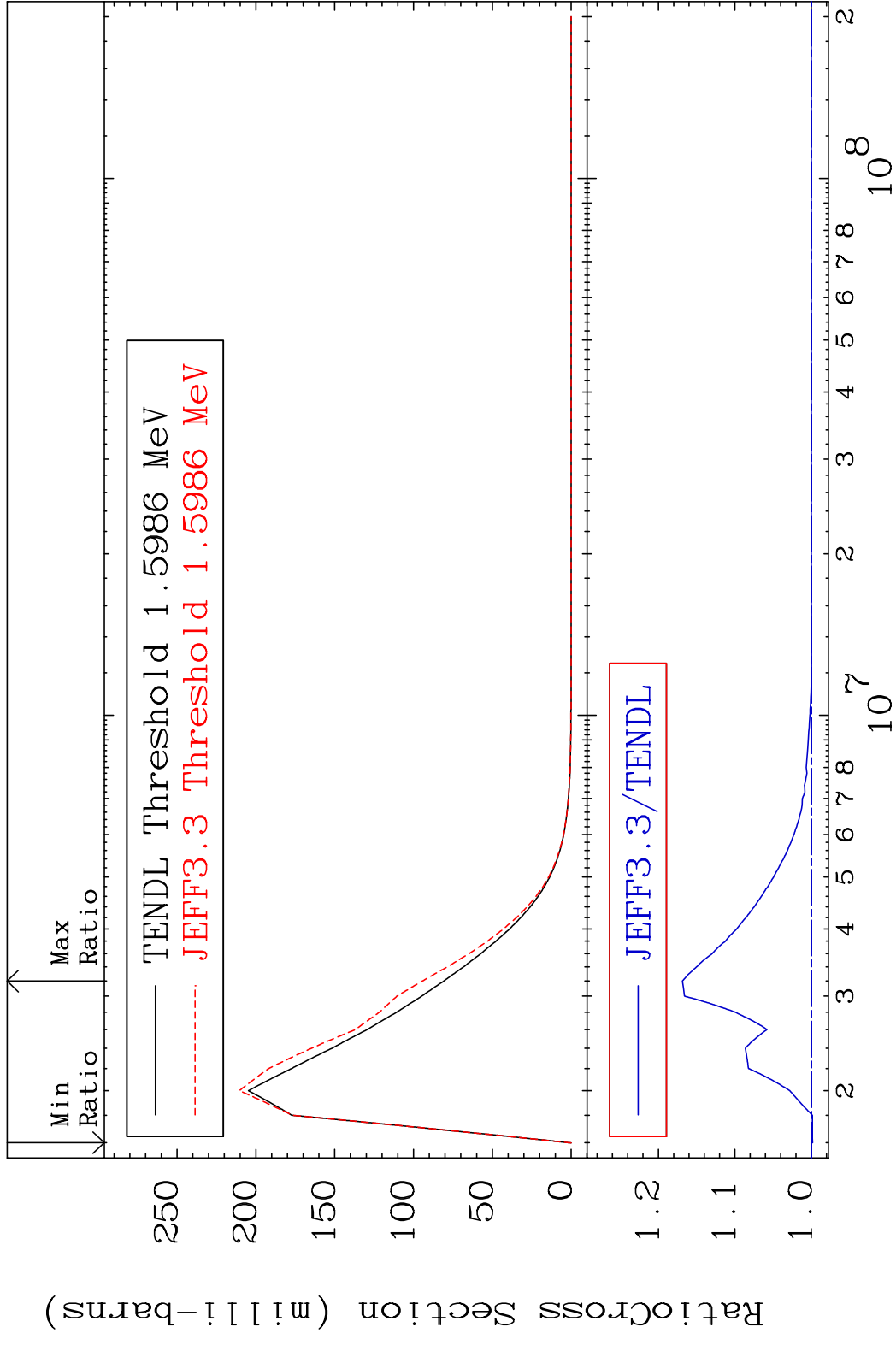
MAT 4119 MT= 53 (n, n') Level 41-Nb-91
 Cross Section -4.120 To 13.23 %



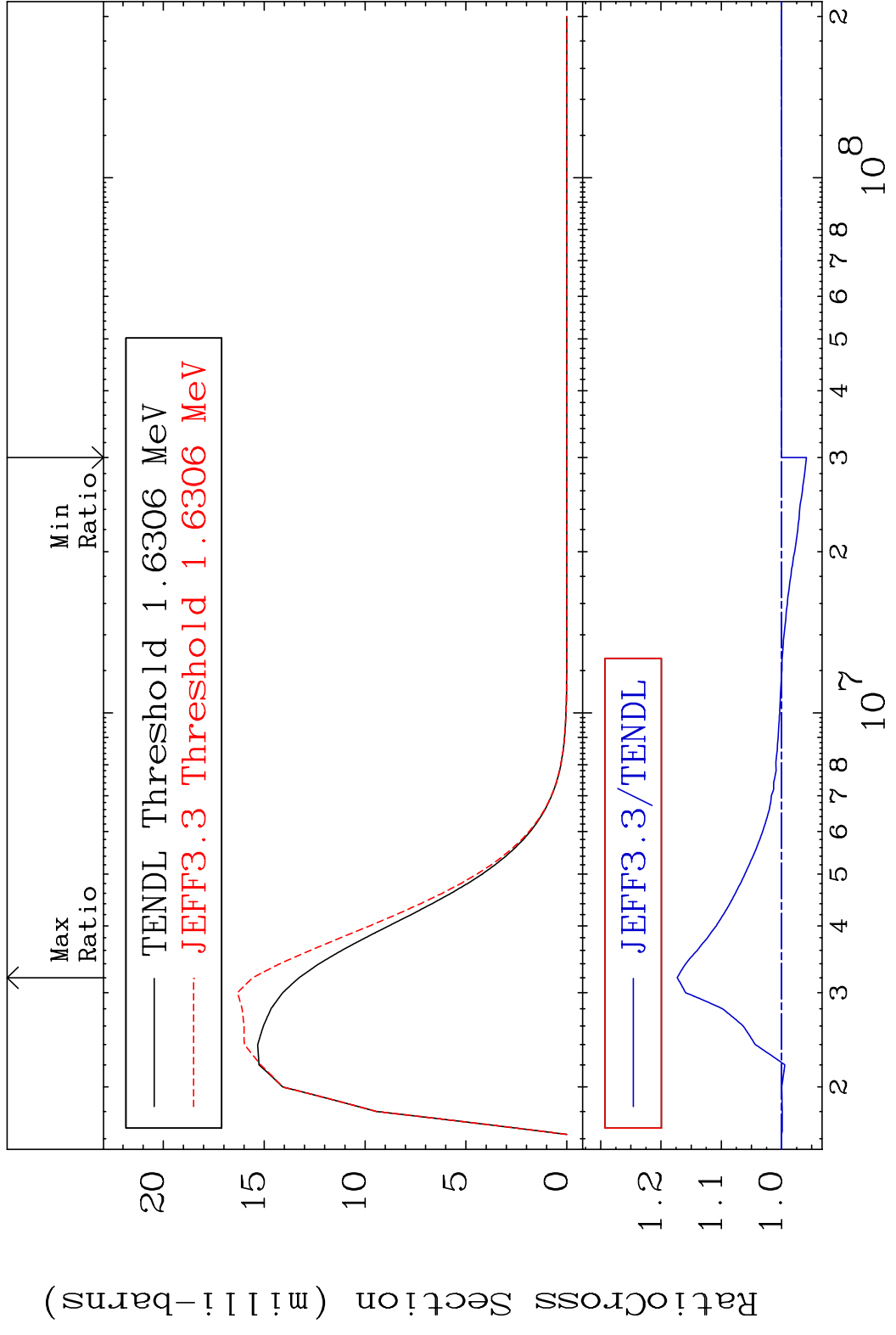
MAT 4119 MT= 54 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 16.76 %



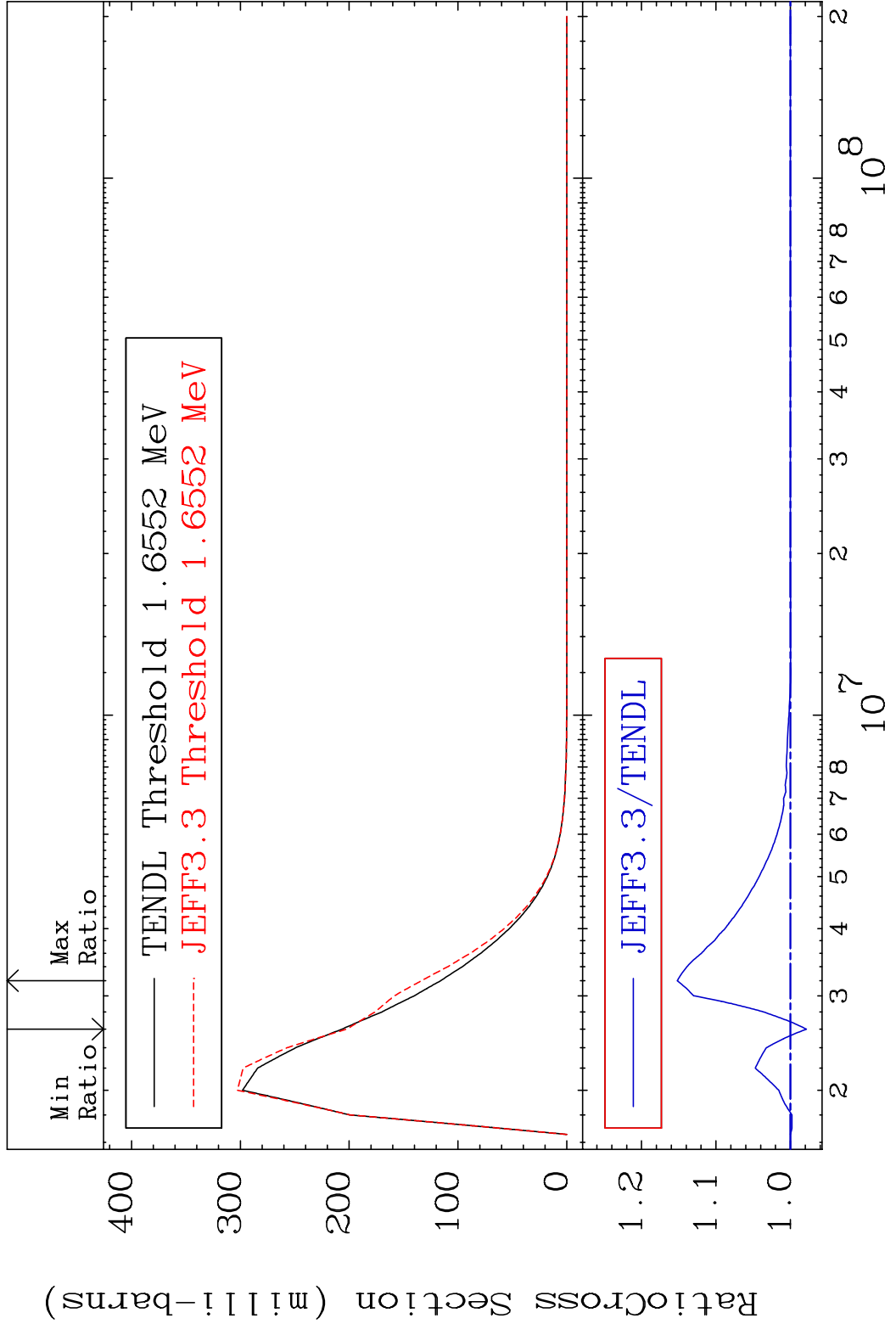
MAT 4119 MT= 55 (n,n') Level 41-Nb-91
 Cross Section -0.167 To 16.86 %



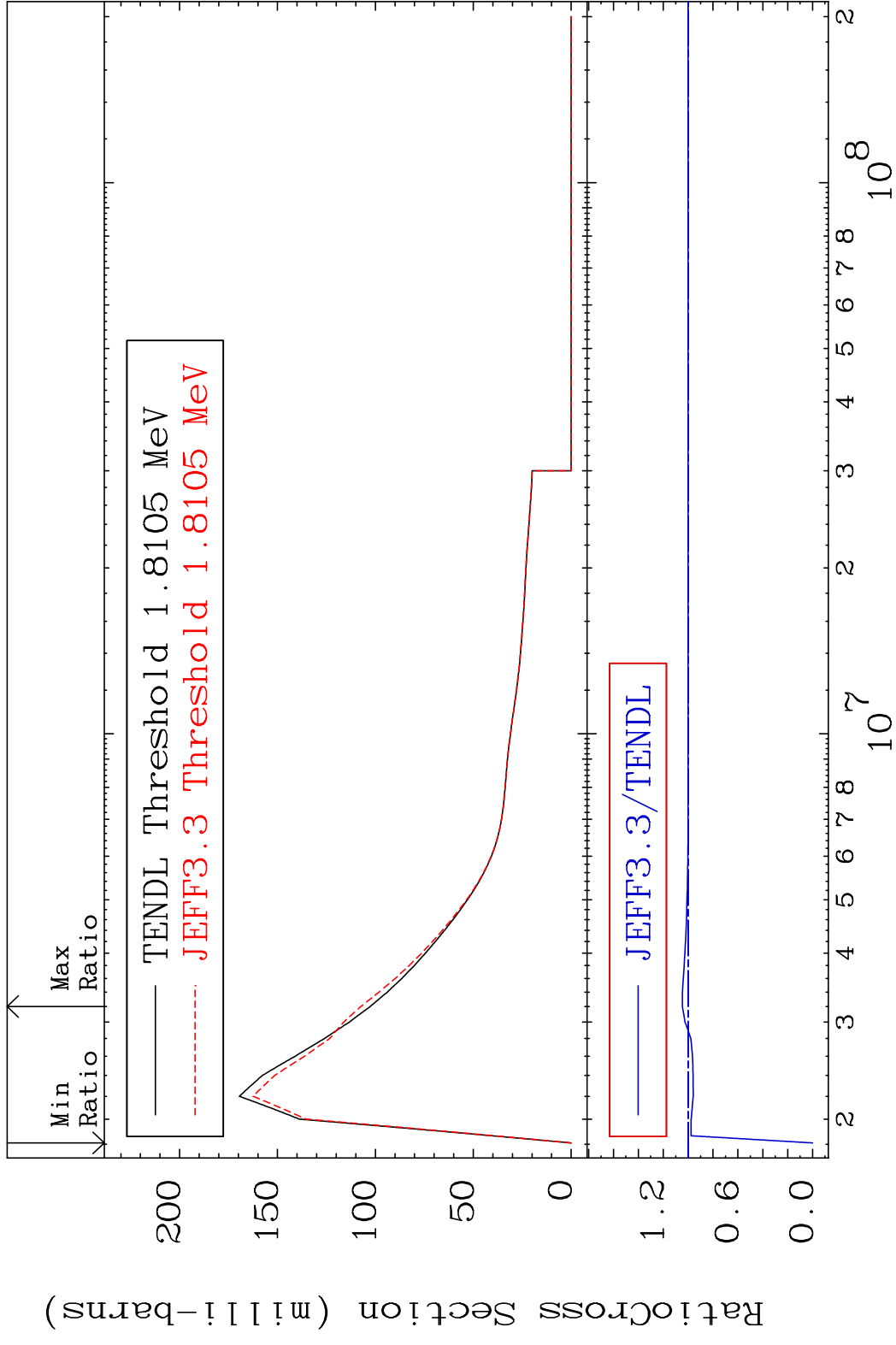
MAT 4119 MT= 56 (n, n') Level 41-Nb-91
 Cross Section -4.117 To 17.32 %



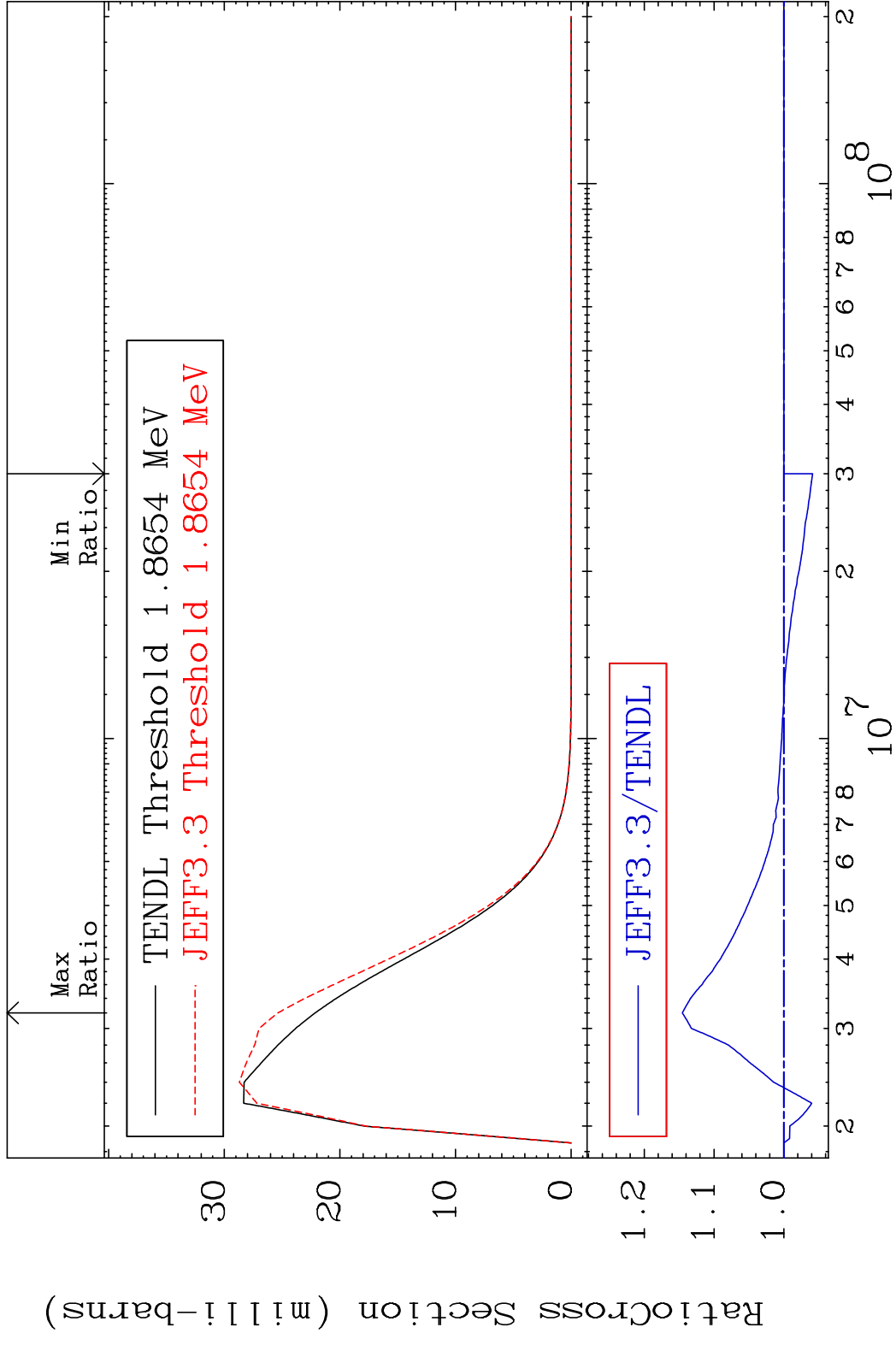
MAT 4119 MT= 57 (n,n') Level 41-Nb-91
 Cross Section -2.149 To 15.21 %



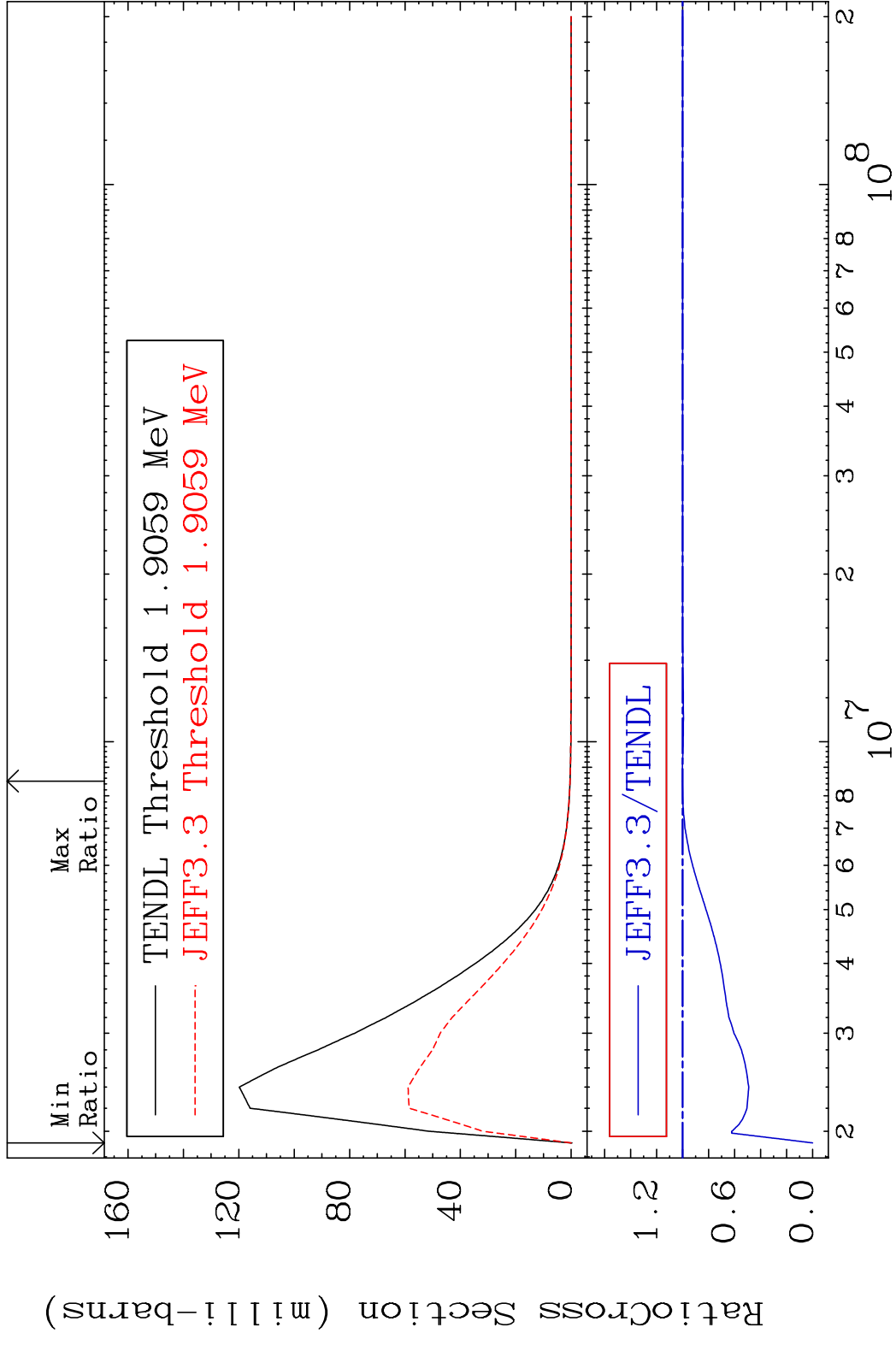
MAT 4119 MT= 58 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 4.640 %



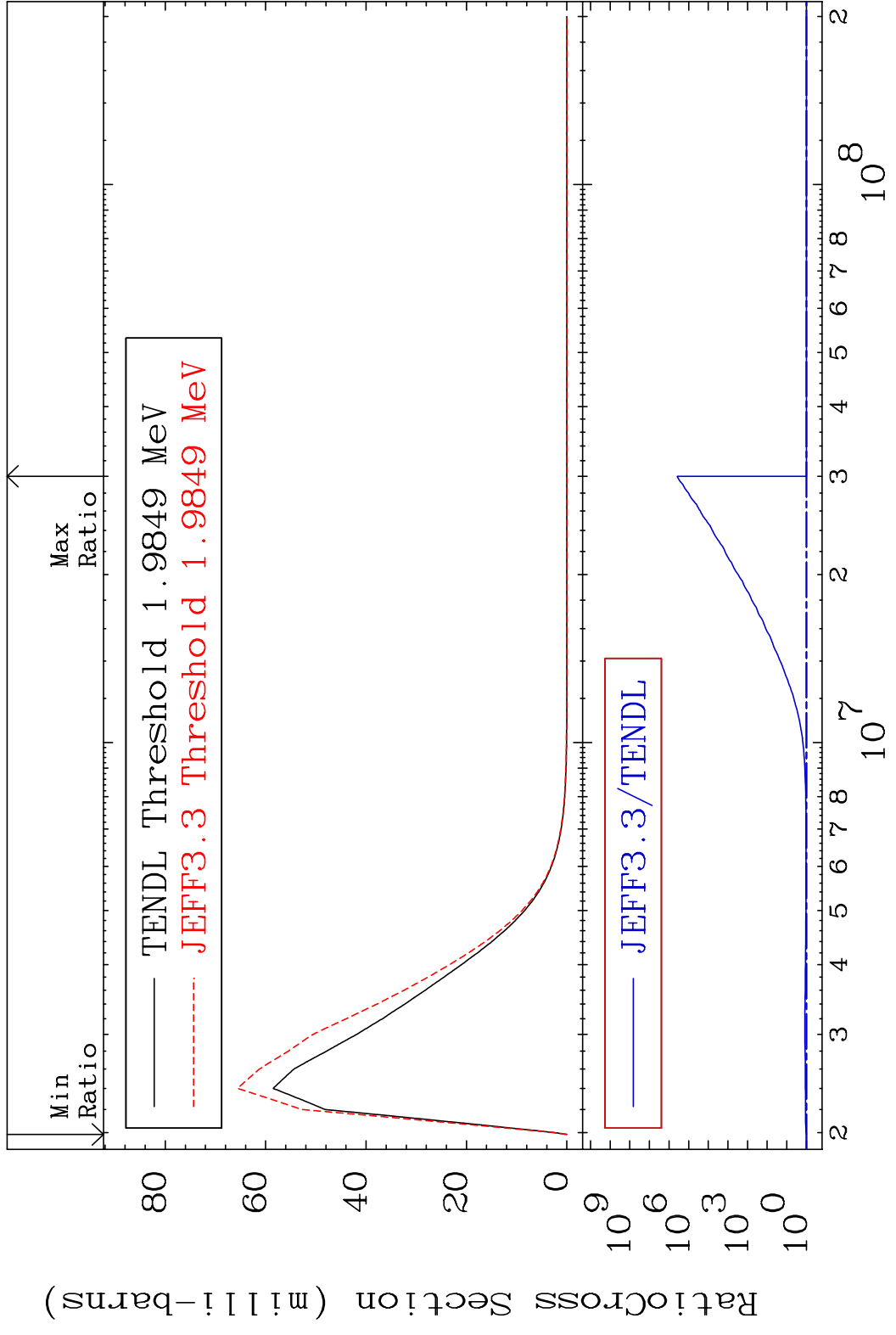
MAT 4119 MT= 59 (n, n') Level 41-Nb-91
 Cross Section -4.119 To 14.53 %



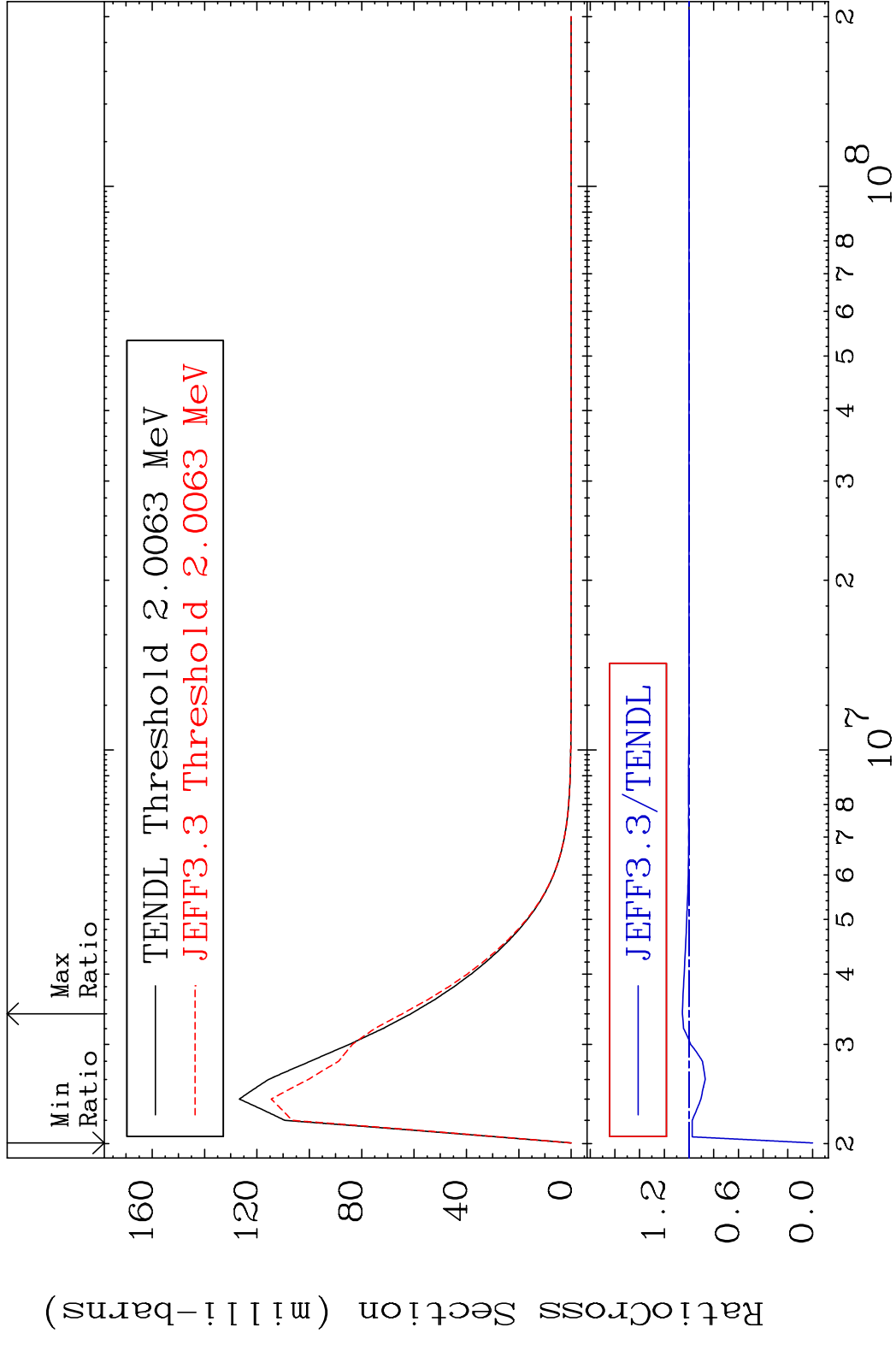
MAT 4119 MT= 60 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 0.224 %



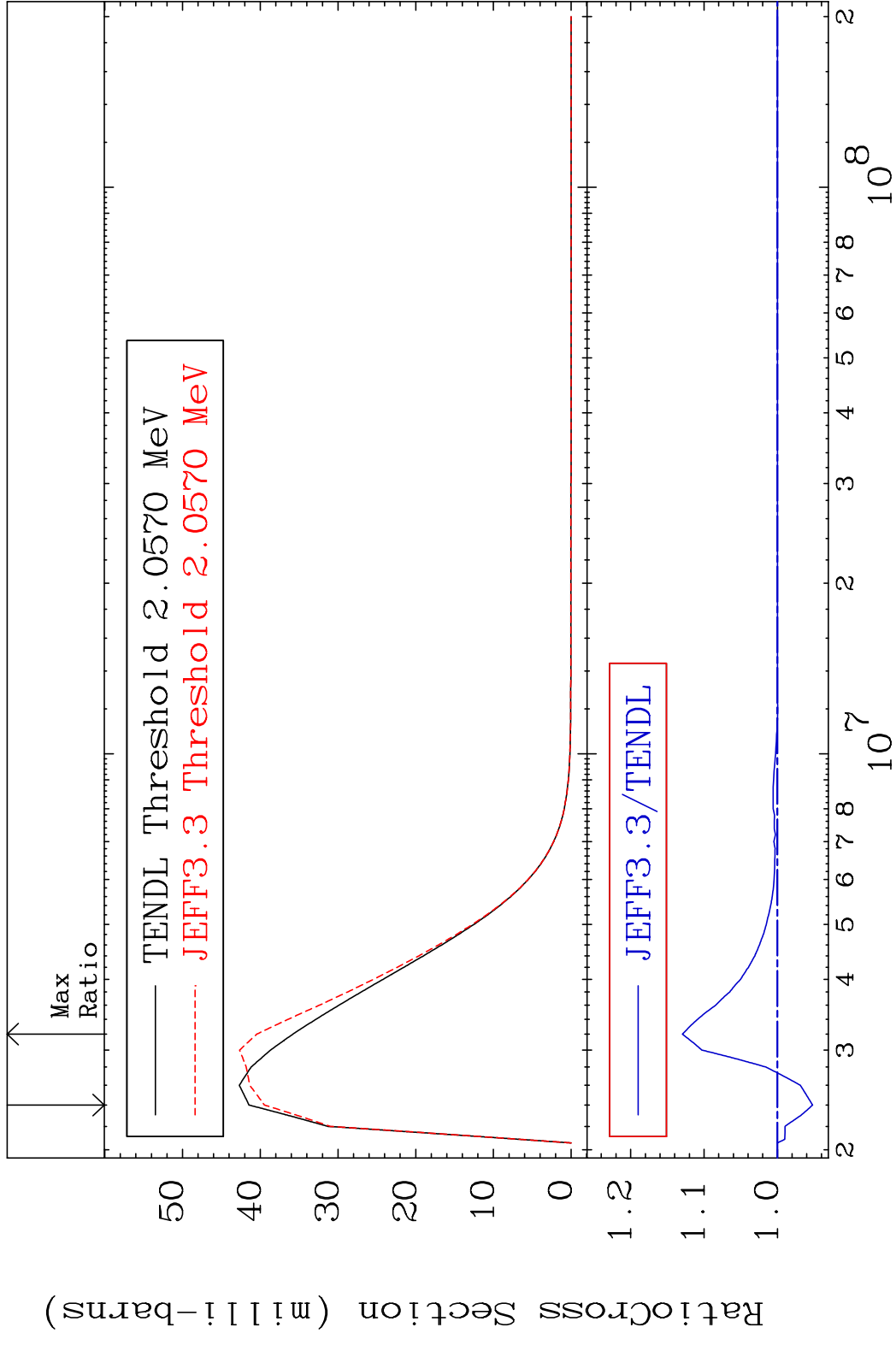
MAT 4119 MT= 61 (n, n') Level 41-Nb-91
 Cross Section 0.000 To 9999. %



MAT 4119 MT= 62 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 5.379 %

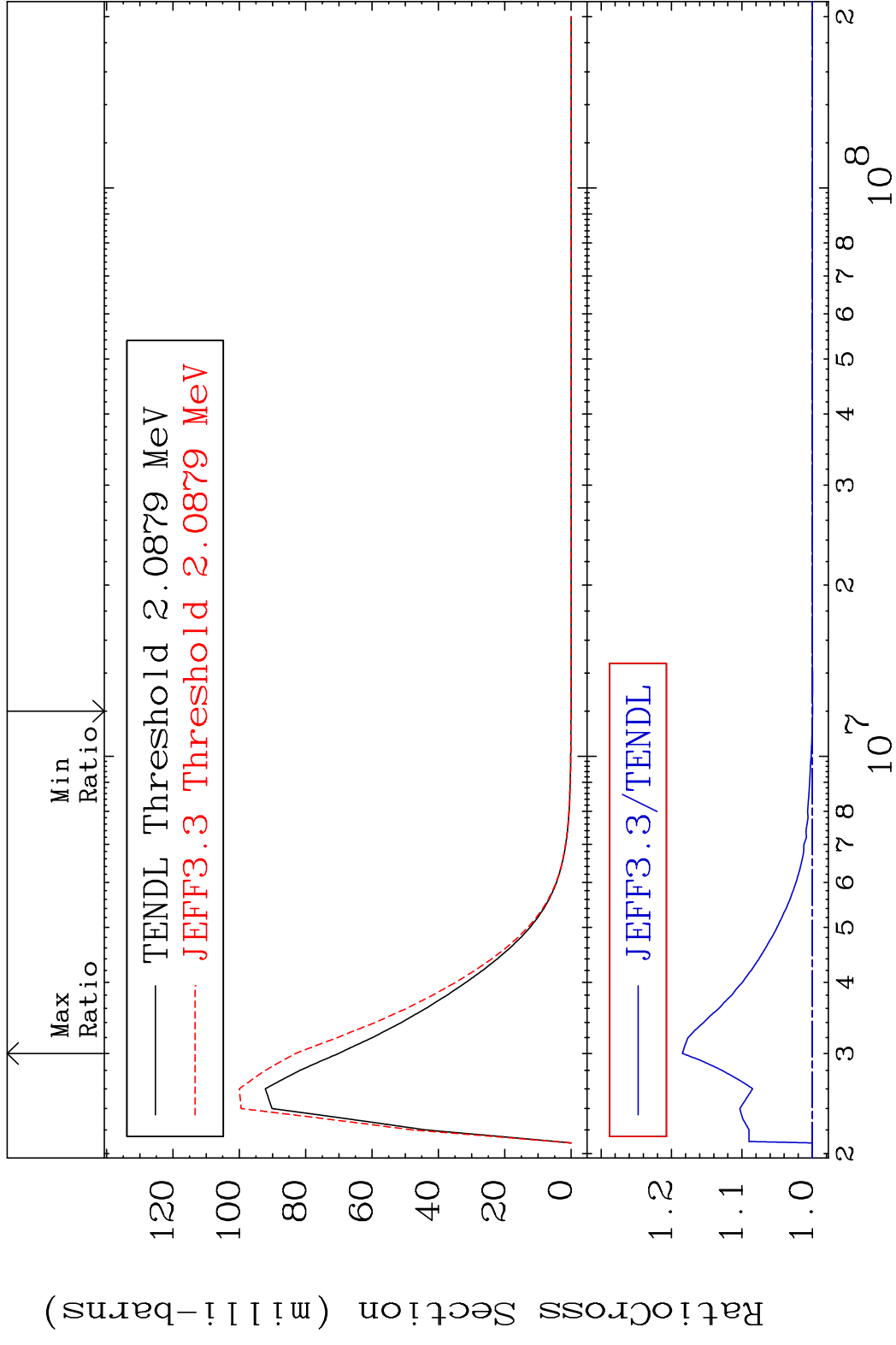


MAT 4119 MT= 63 (n, n') Level 41-Nb-91
 Cross Section -4.789 To 12.96 %

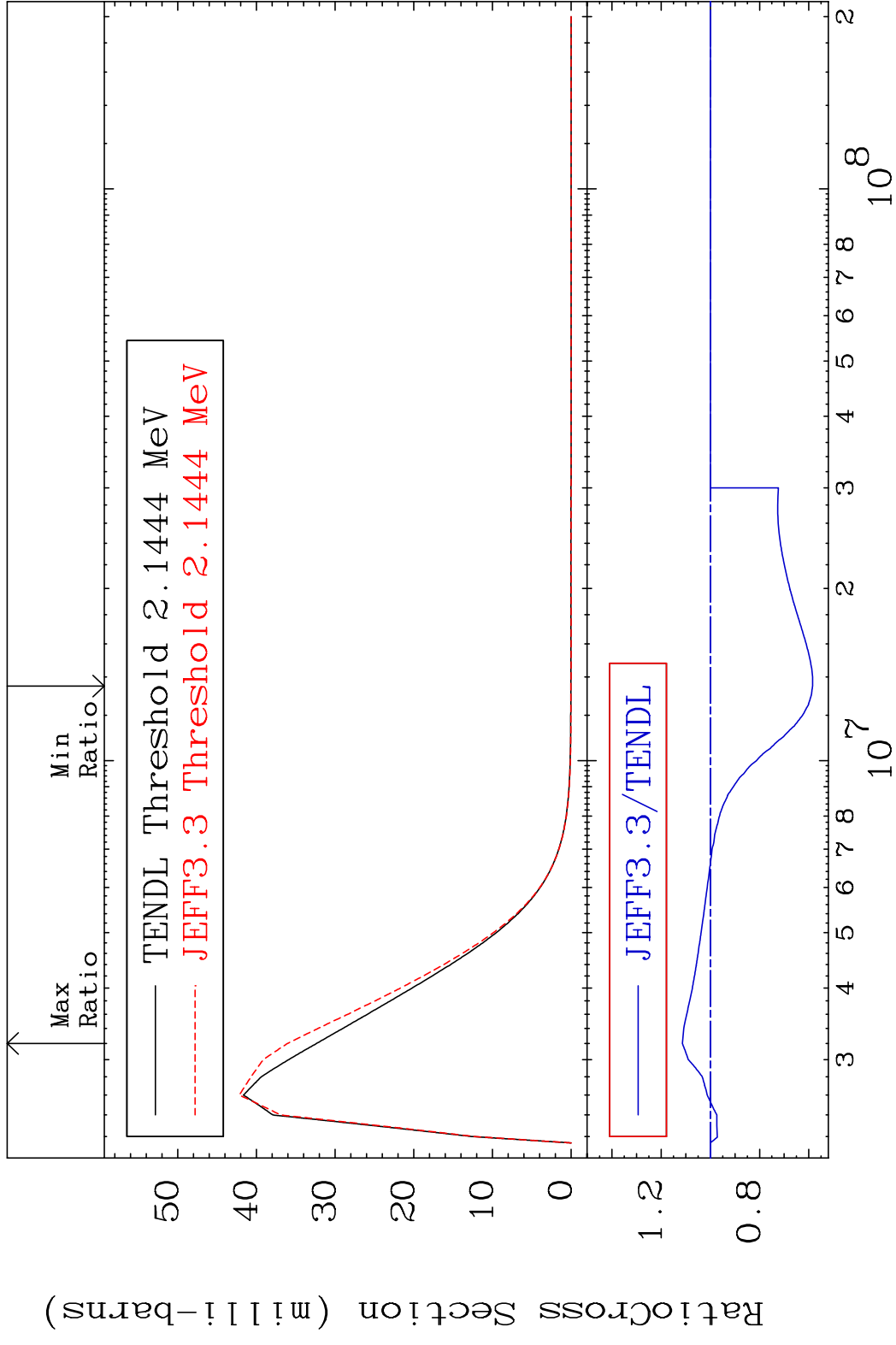


30 Incident Energy (eV) 41-Nb-91

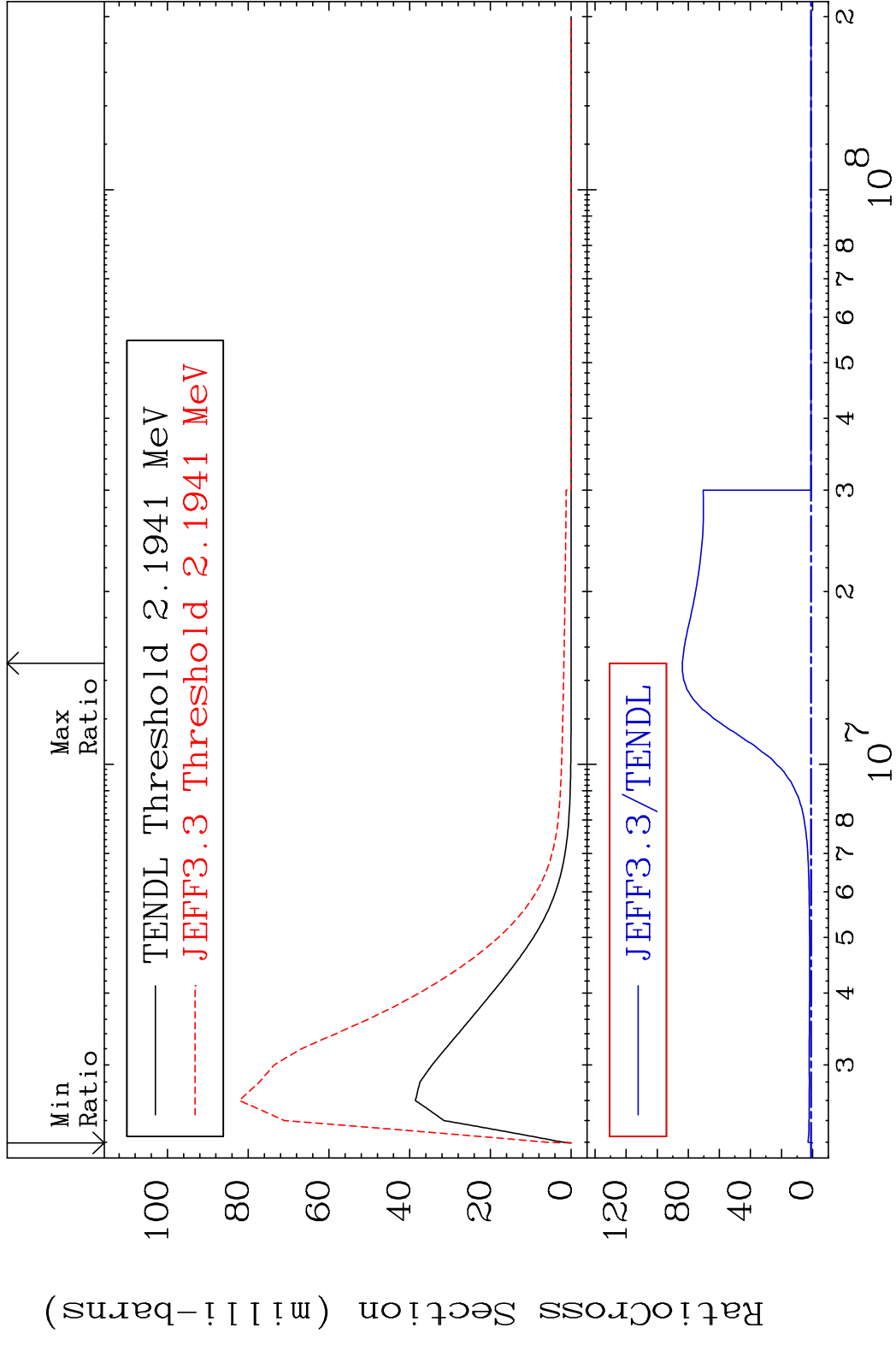
MAT 4119 MT= 64 (n, n') Level 41-Nb-91
 Cross Section -0.030 To 18.46 %



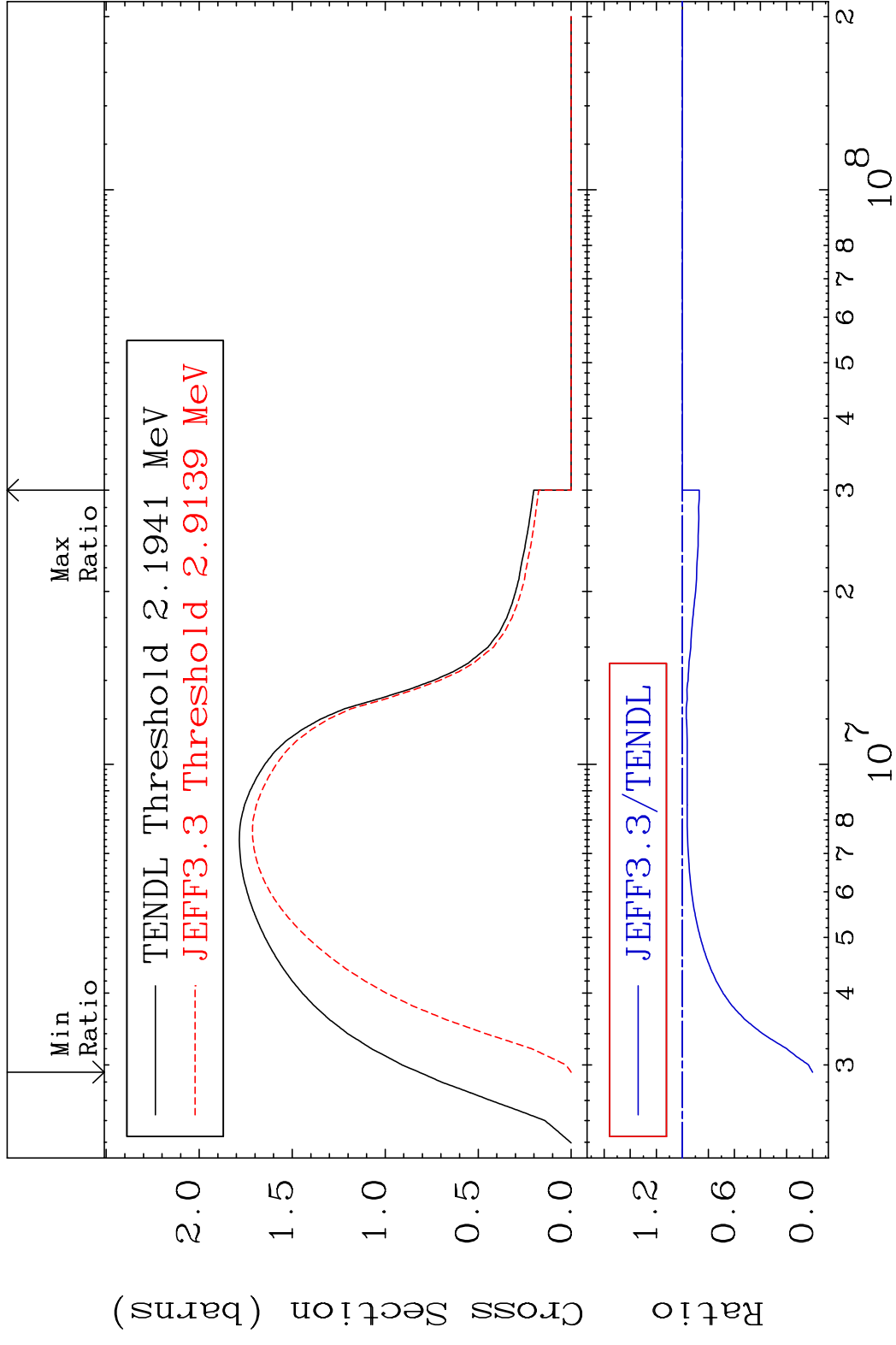
MAT 4119 MT= 65 (n, n') Level 41-Nb-91
 Cross Section -41.53 To 11.40 %



MAT 4119 MT= 66 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 8281. %

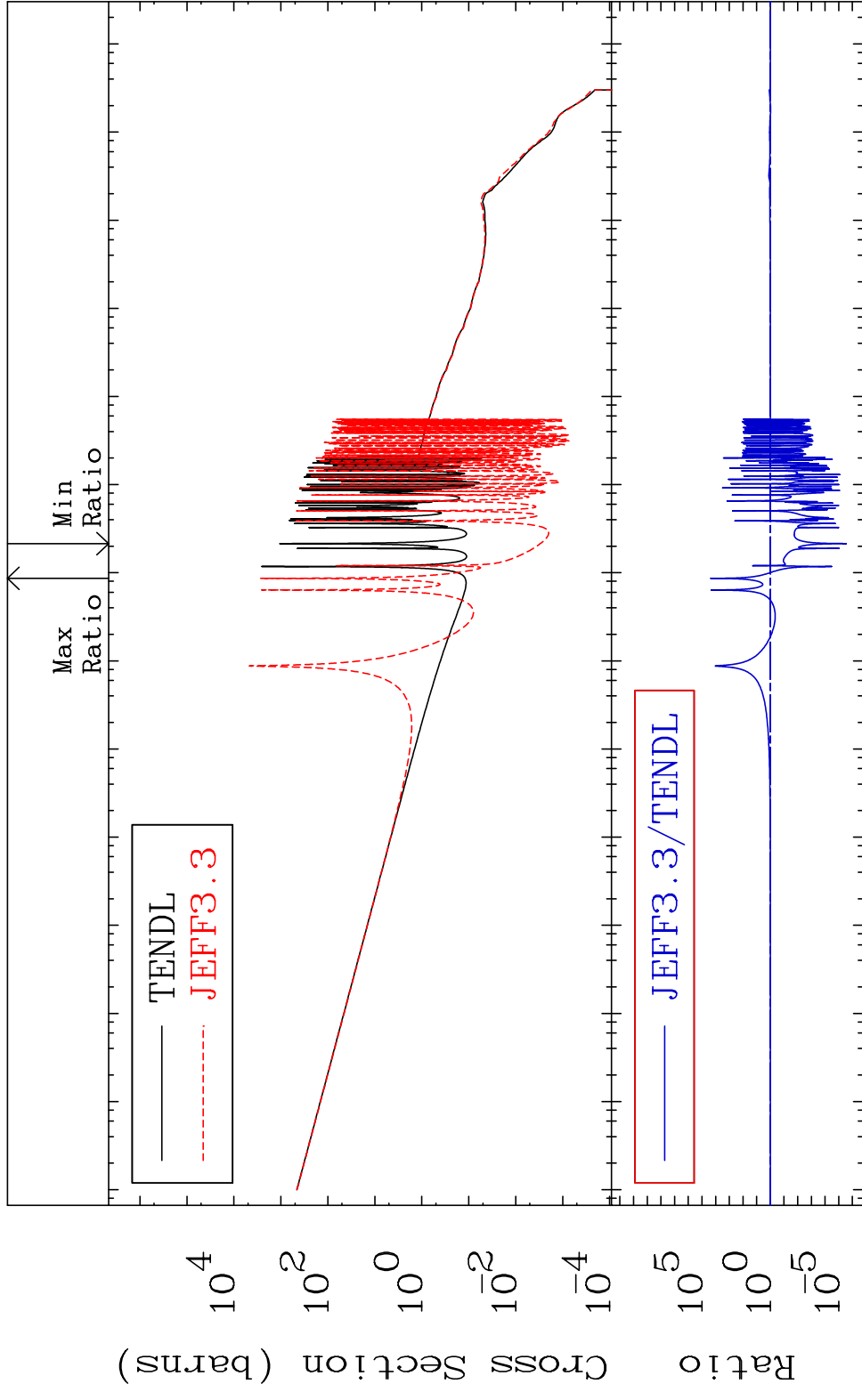


MAT 4119 (n, n') Continuum 41-Nb-91
 Cross Section -100.0 To 0.000 %



MAT 4119

(n, γ)
Cross Section -100.0 To 9999. %
41-Nb-91



35

Incident Energy (eV)

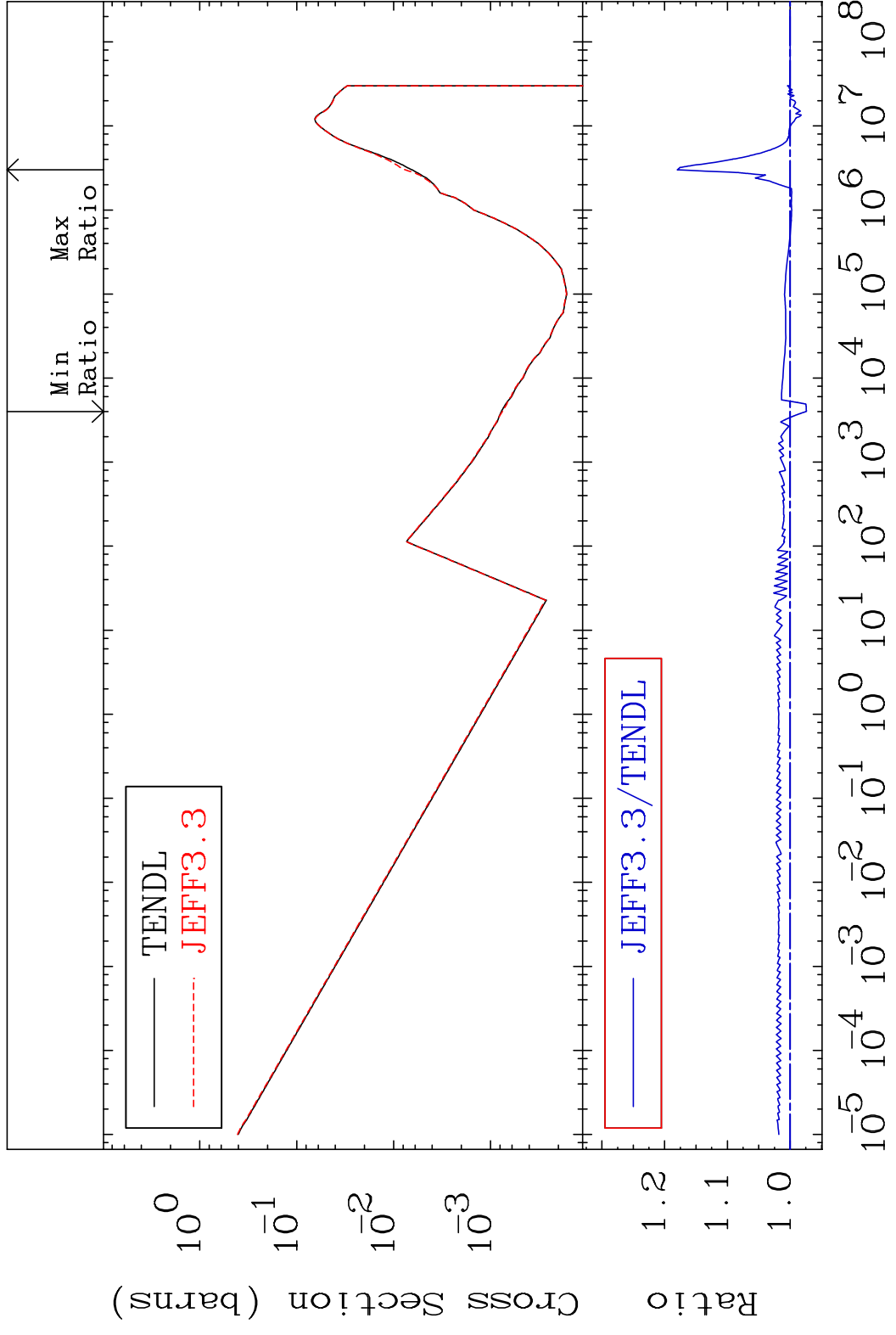
41-Nb-91

MAT 4119

(n, p)

41-Nb-91

Cross Section -2.588 To 18.00 %



36

Incident Energy (eV)

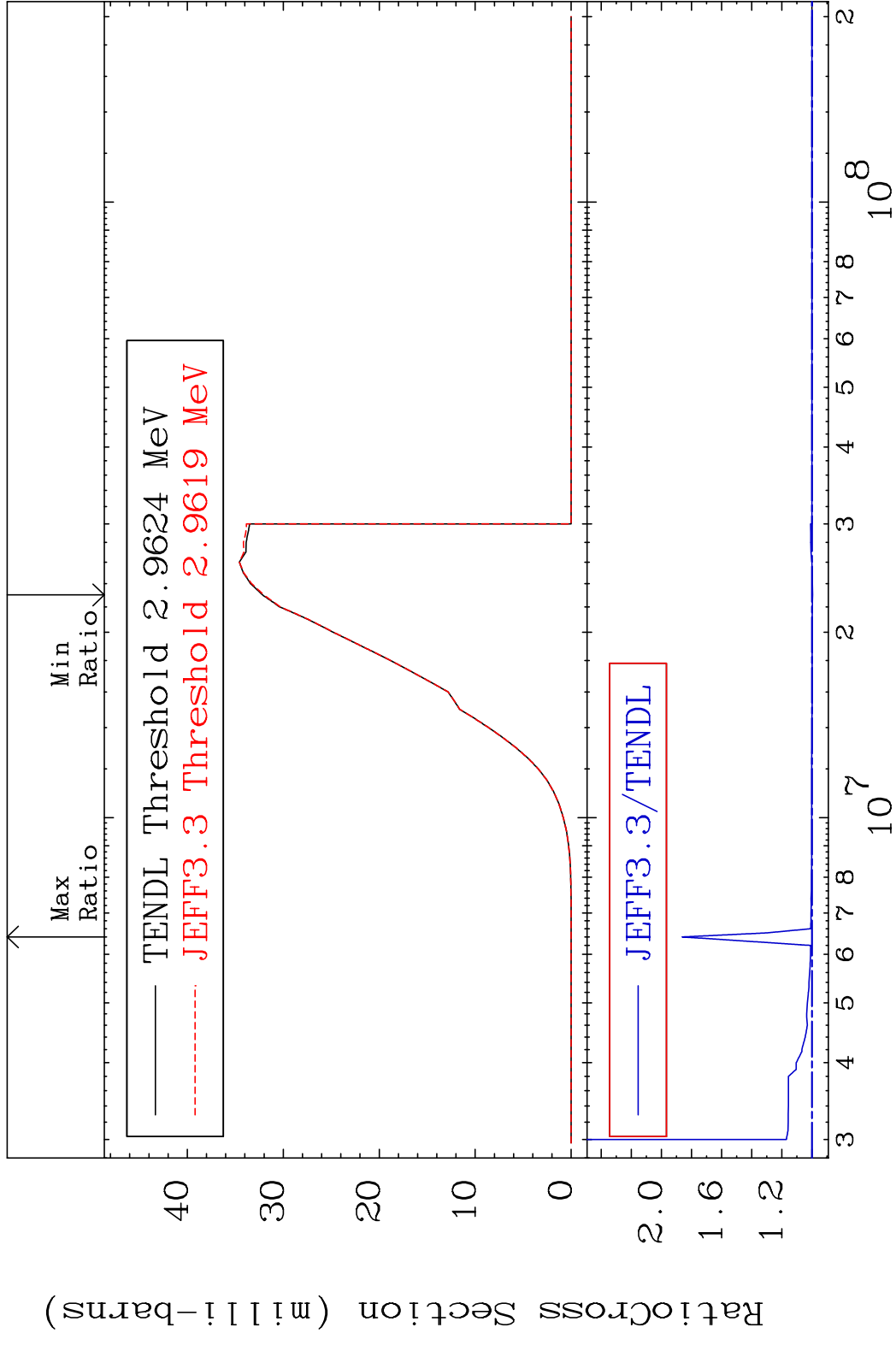
41-Nb-91

MAT 4119

(n, d)

41-Nb-91

Cross Section -0.403 To 86.05 %

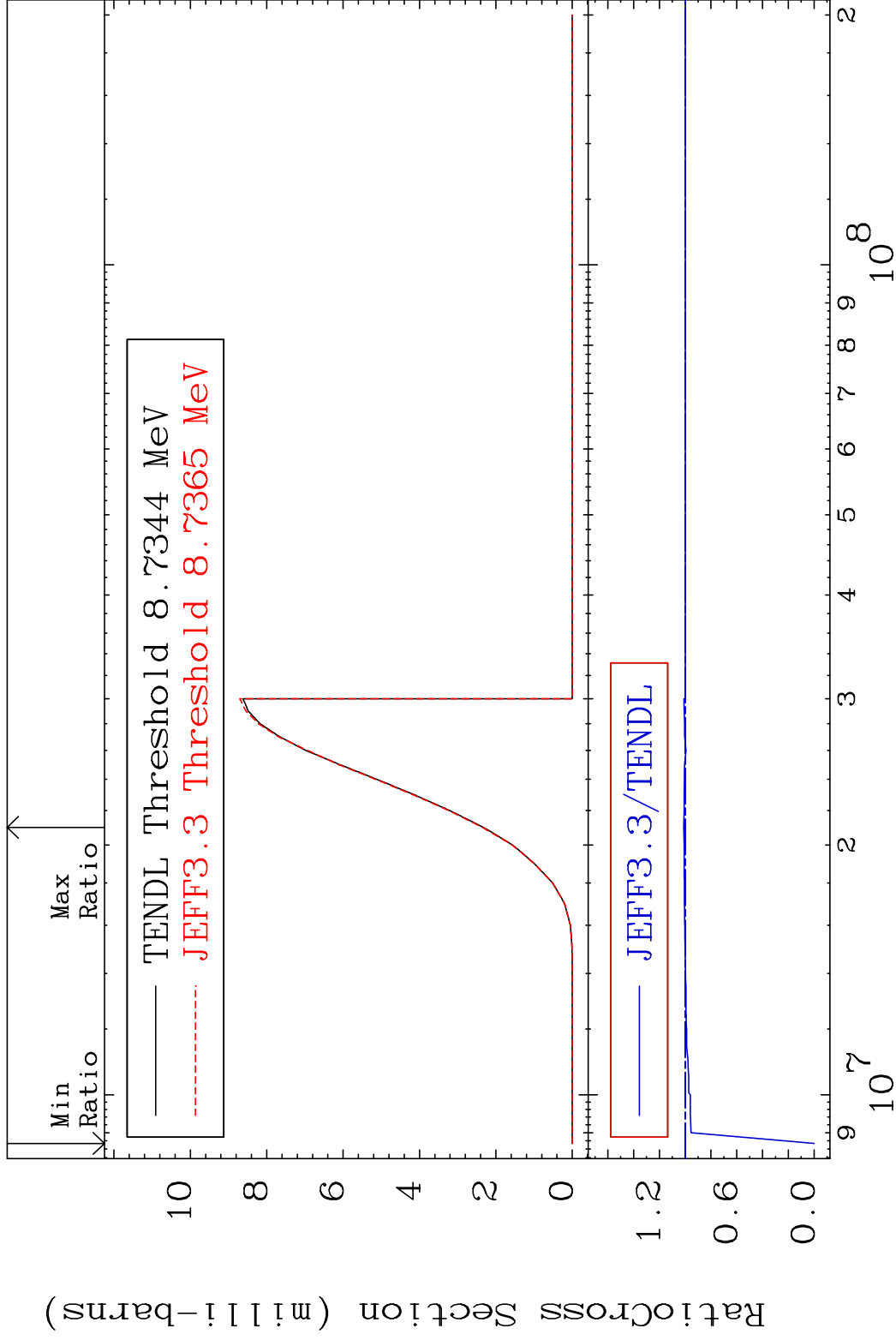


MAT 4119

(n, t)

41-Nb-91

Cross Section -100.0 To 1.193 %



38

Incident Energy (eV)

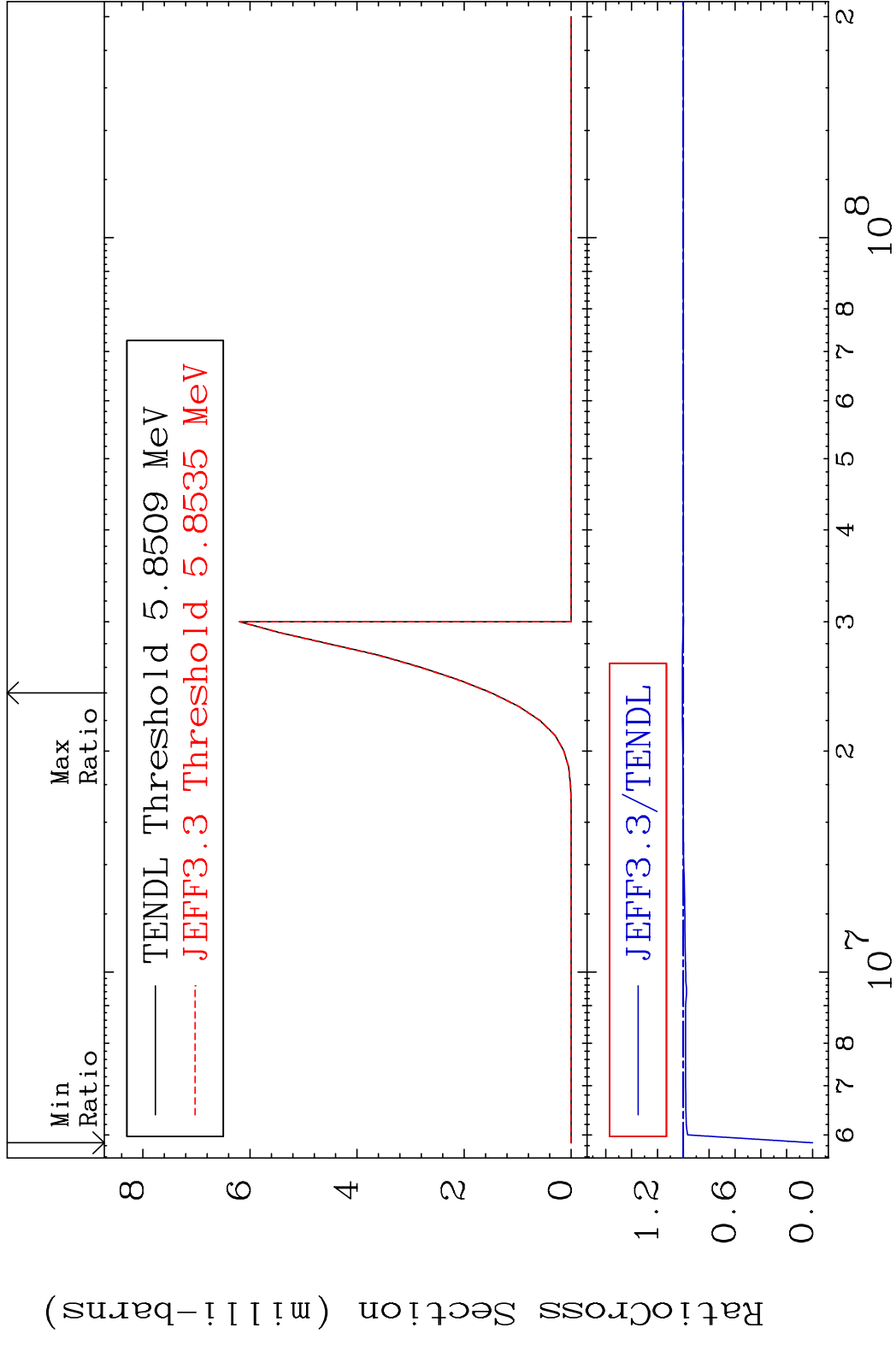
41-Nb-91

MAT 4119

(n, He-3)

41-Nb-91

Cross Section -100.0 To 0.752 %



39

Incident Energy (eV)

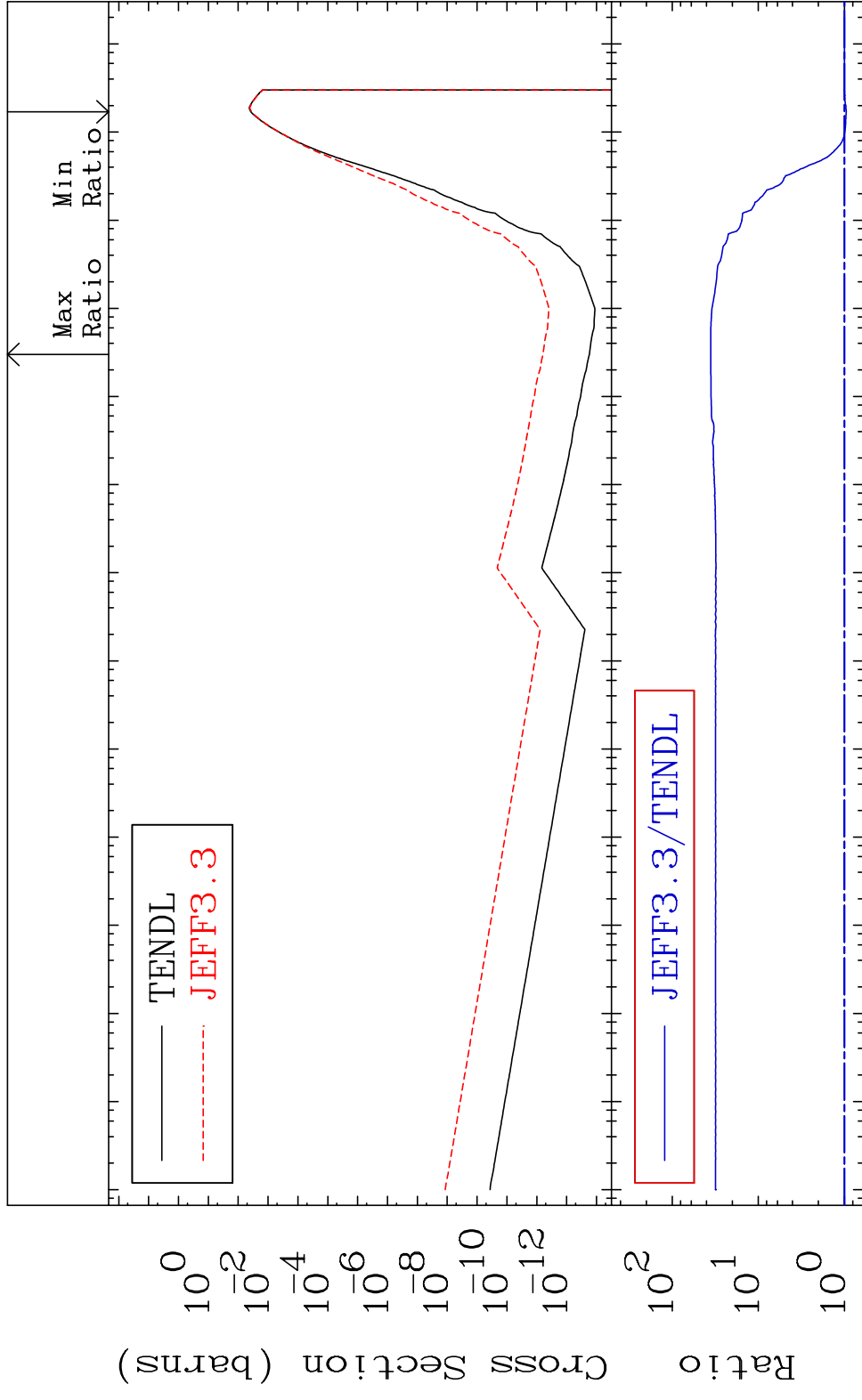
41-Nb-91

MAT 4119

(n, α)

41-Nb-91

Cross Section -5.077 To 3470. %



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

40

Incident Energy (eV)

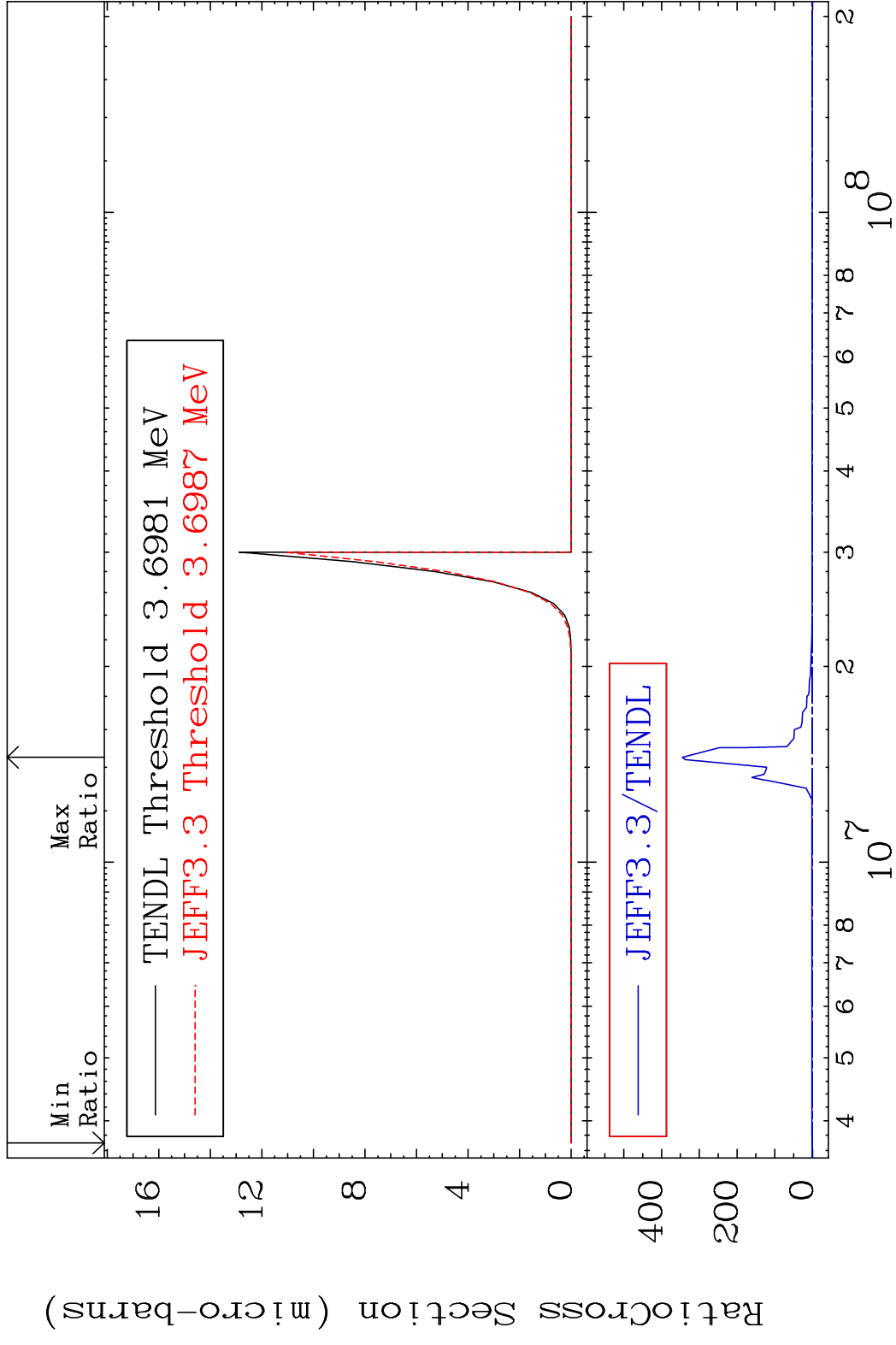
41-Nb-91

MAT 4119

(n,2α)

41-Nb-91

Cross Section -100.0 To 9999. %



41

Incident Energy (eV)

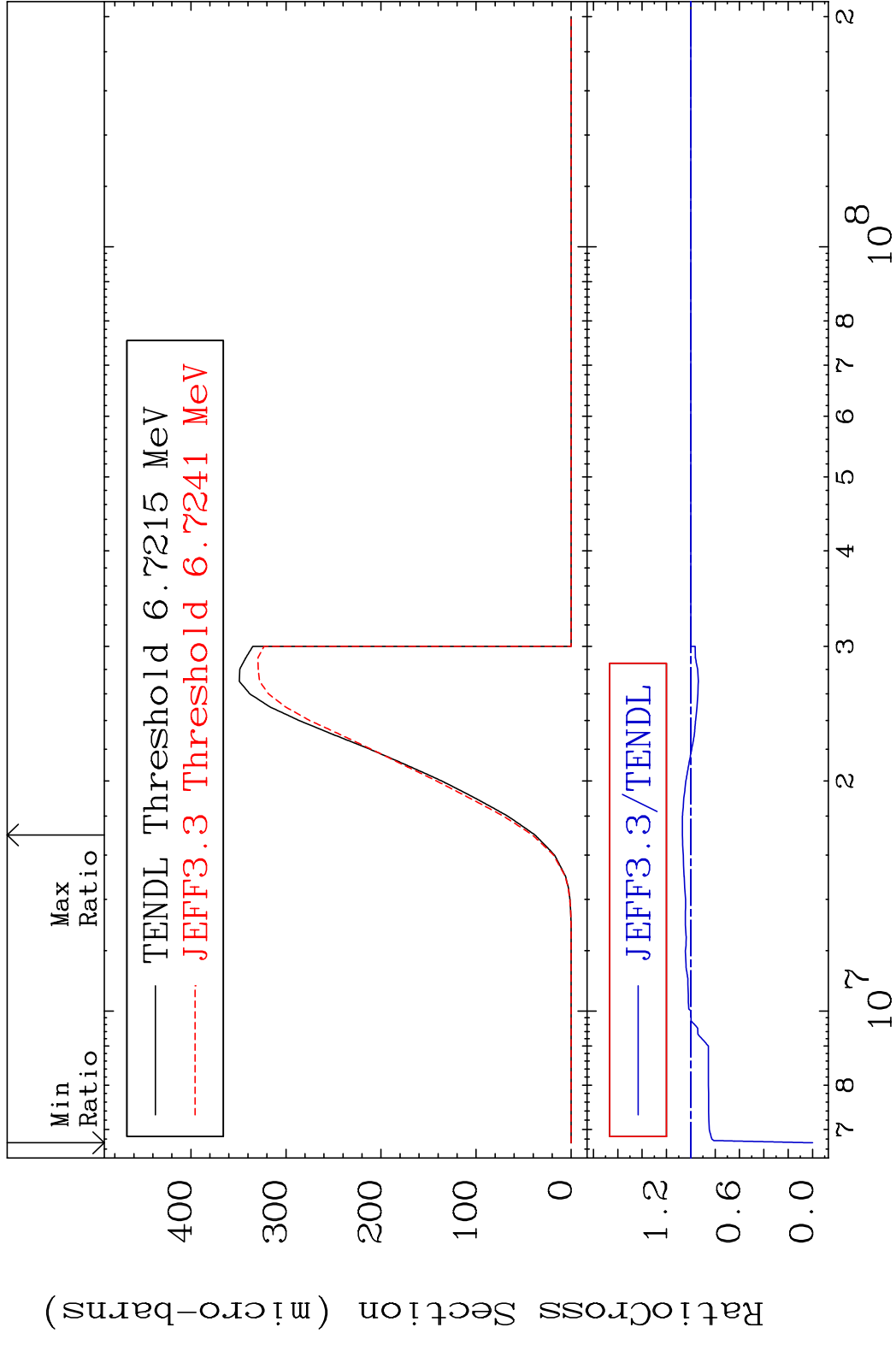
41-Nb-91

MAT 4119

(n,2p)

41-Nb-91

Cross Section -100.0 To 6.943 %



42

Incident Energy (eV)

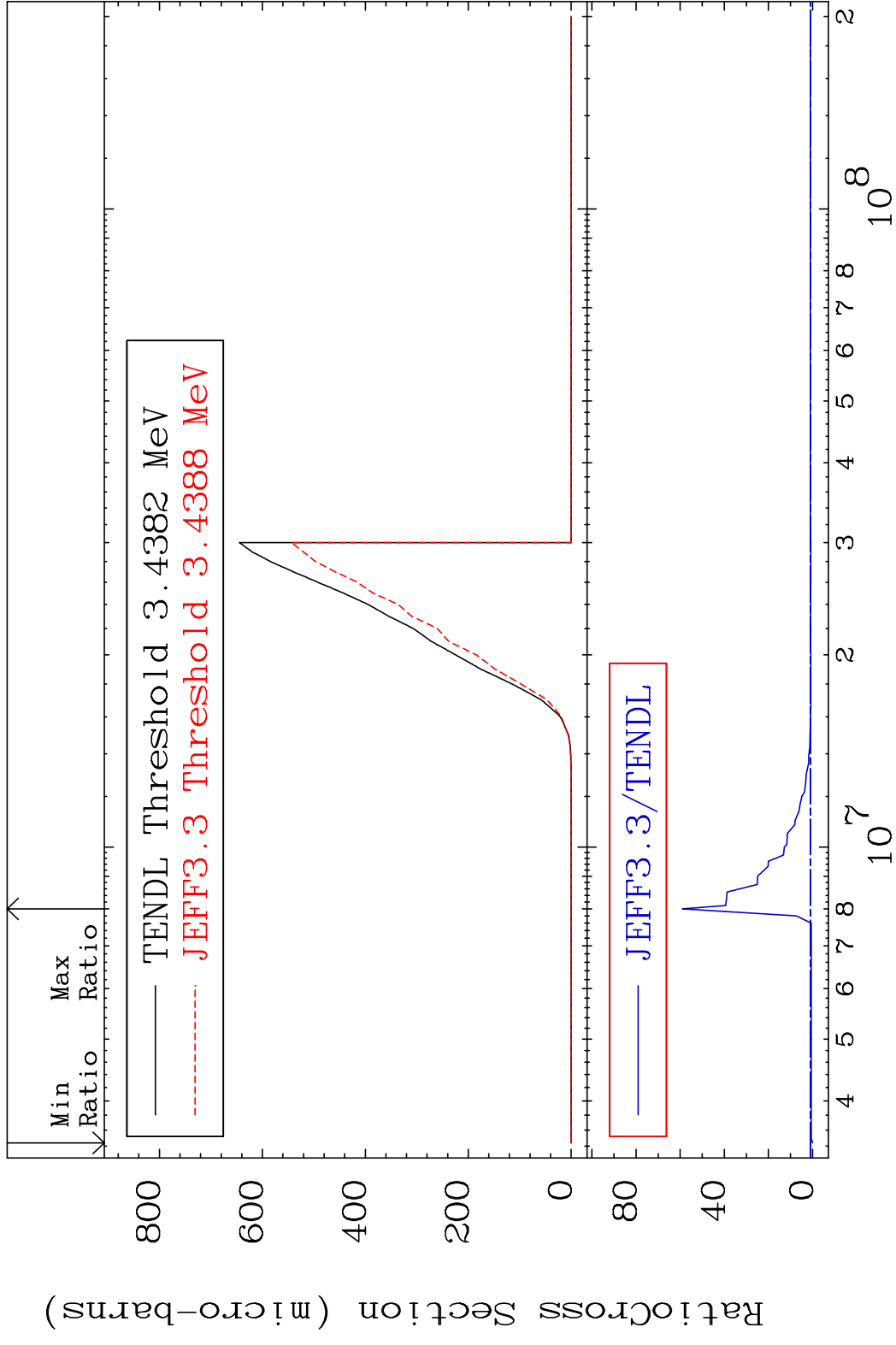
41-Nb-91

MAT 4119

(n,p) α

41-Nb-91

Cross Section -100.0 To 5802. %



43

Incident Energy (eV)

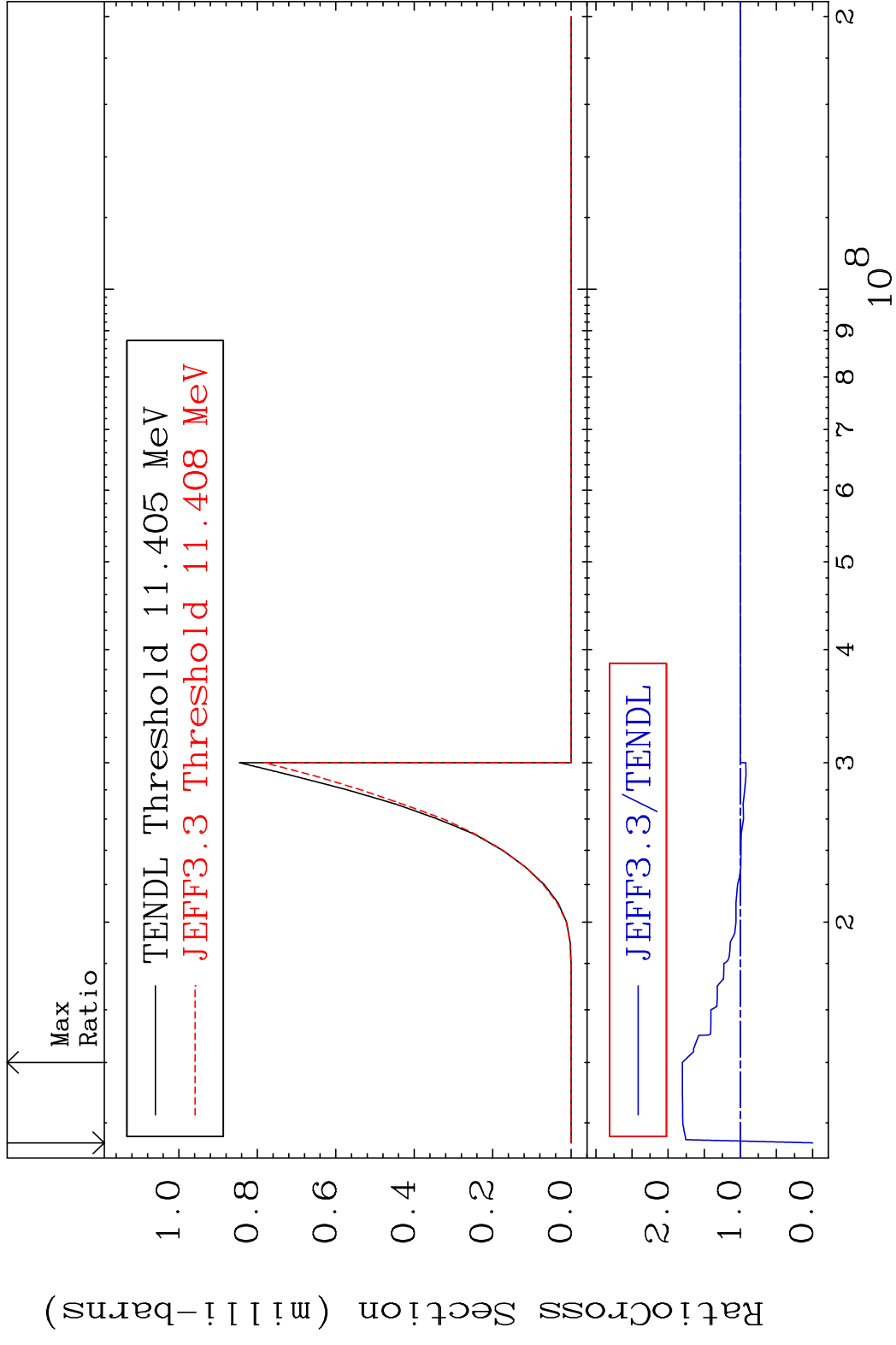
41-Nb-91

MAT 4119

(n,p) d

41-Nb-91

Cross Section -100.0 To 80.27 %

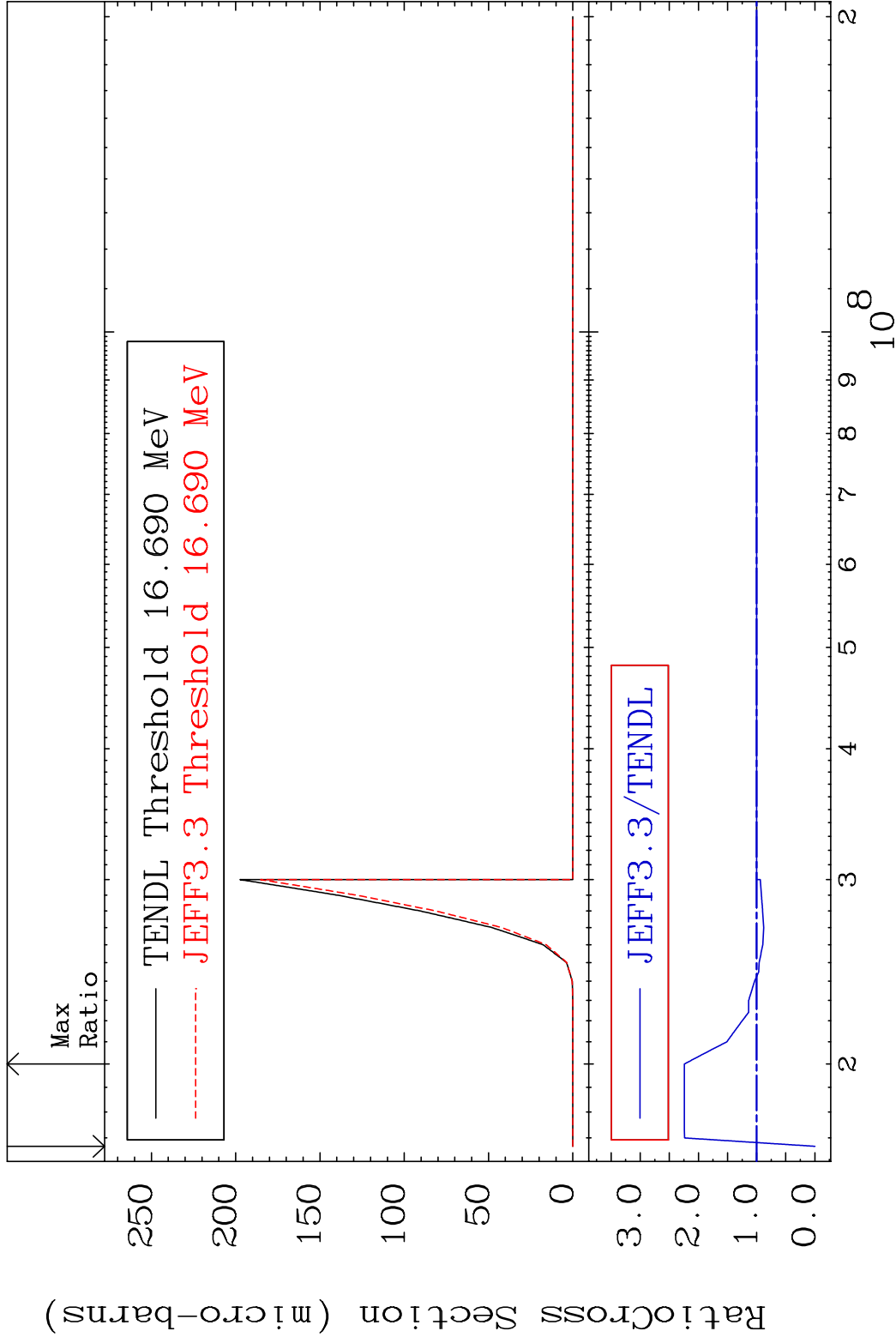


MAT 4119

(n,p) t

41-Nb-91

Cross Section -100.0 To 124.3 %



45

Incident Energy (eV)

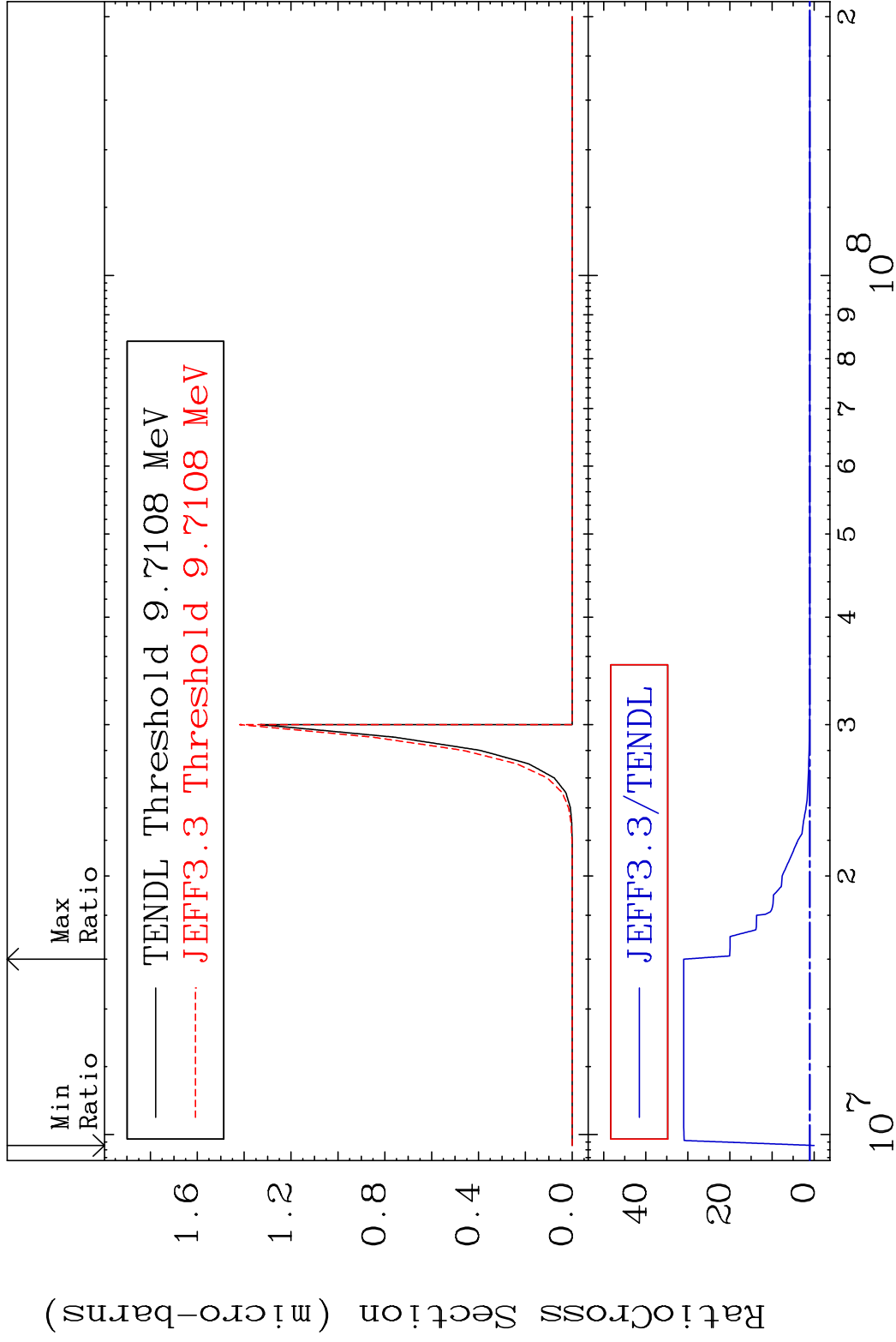
41-Nb-91

MAT 4119

(n,d) α

41-Nb-91

Cross Section -100.0 To 3000. %



46

Incident Energy (eV)

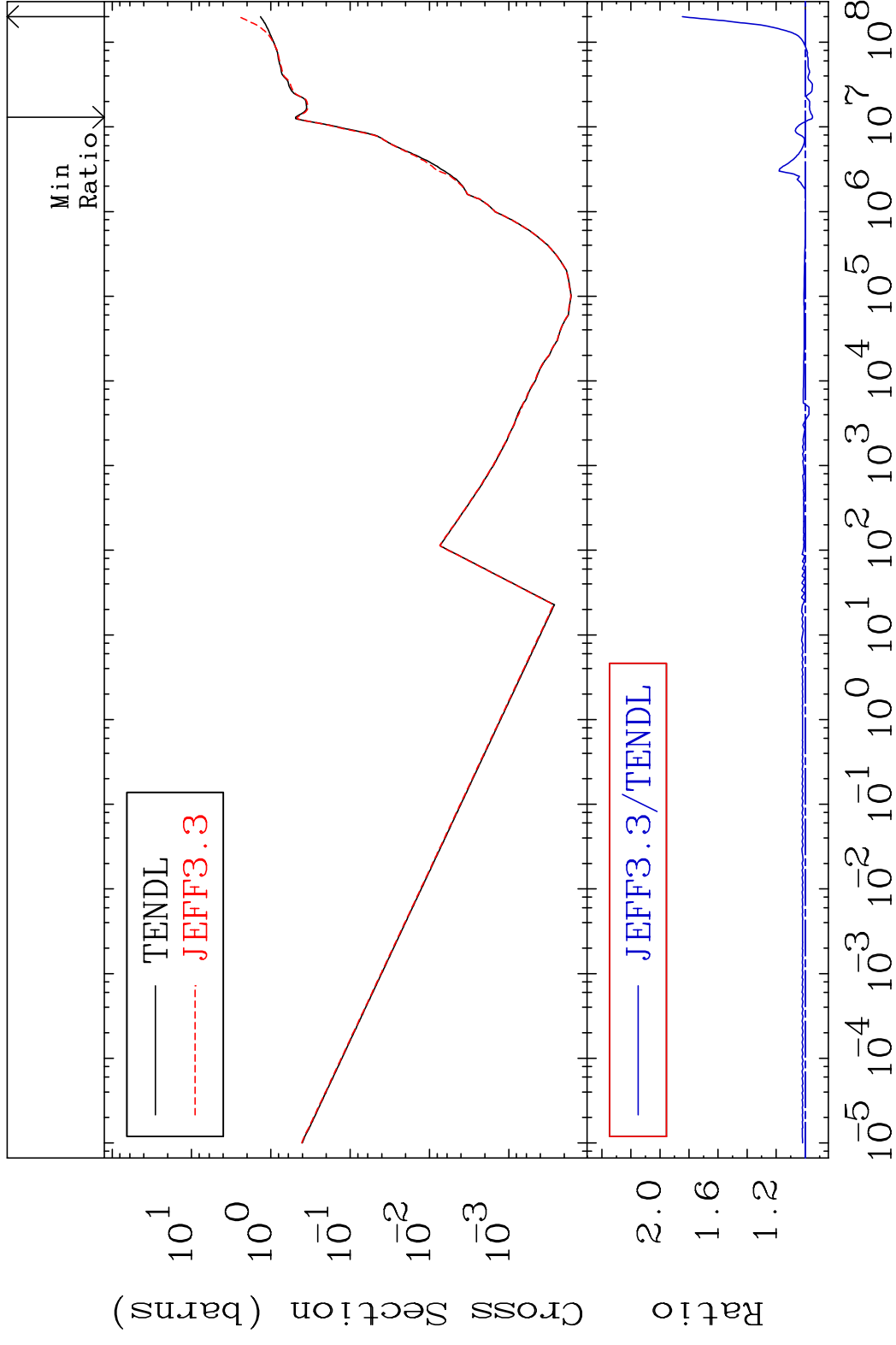
41-Nb-91

MAT 4119

Hydrogen Production

41-Nb-91

Cross Section -5.057 To 84.58 %



47

Incident Energy (eV)

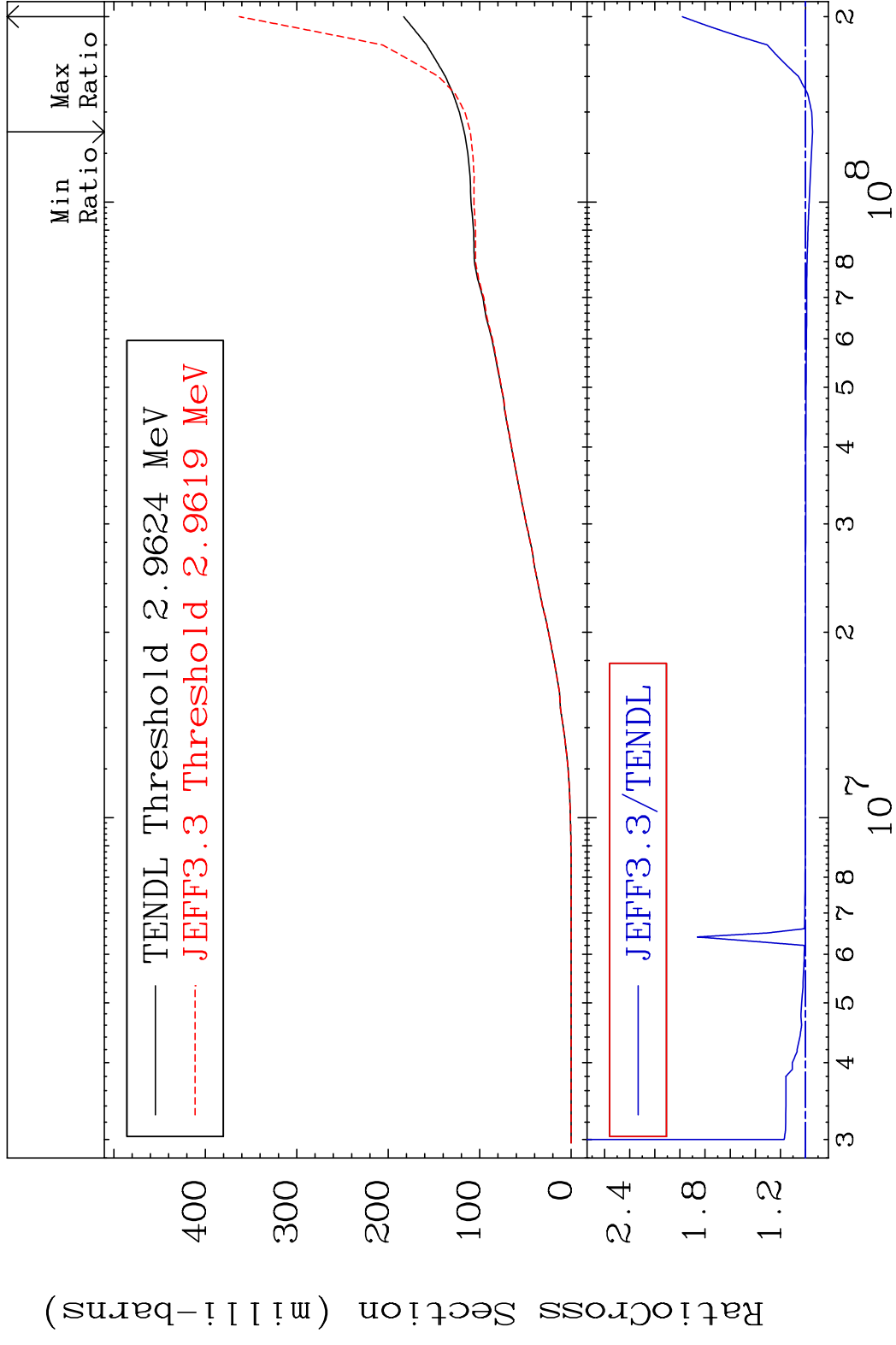
41-Nb-91

MAT 4119

Deuterium Production

41-Nb-91

Cross Section -5.632 To 98.11 %

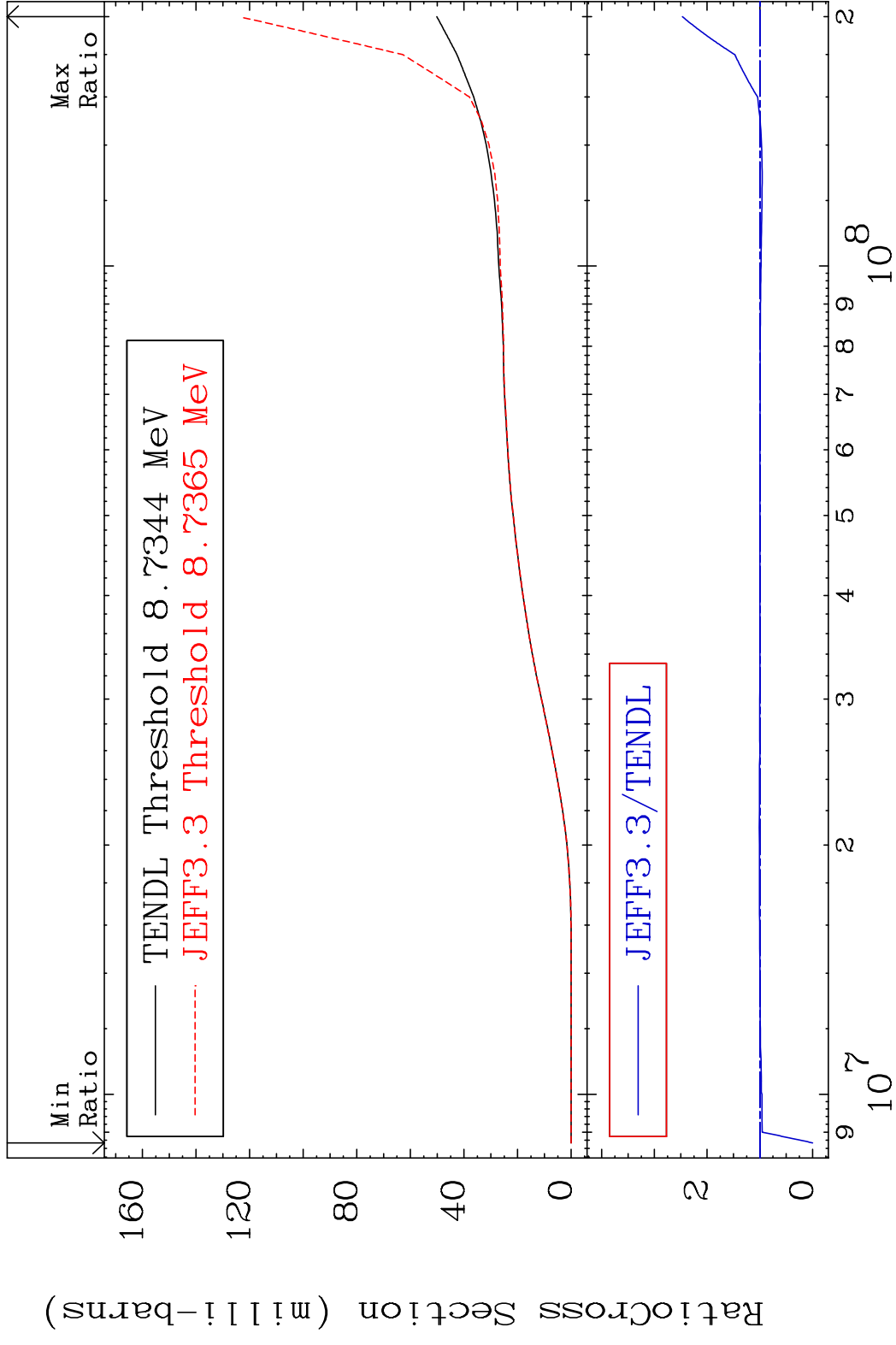


MAT 4119

Tritium Production

41-Nb-91

Cross Section -100.0 To 147.0 %



49

Incident Energy (eV)

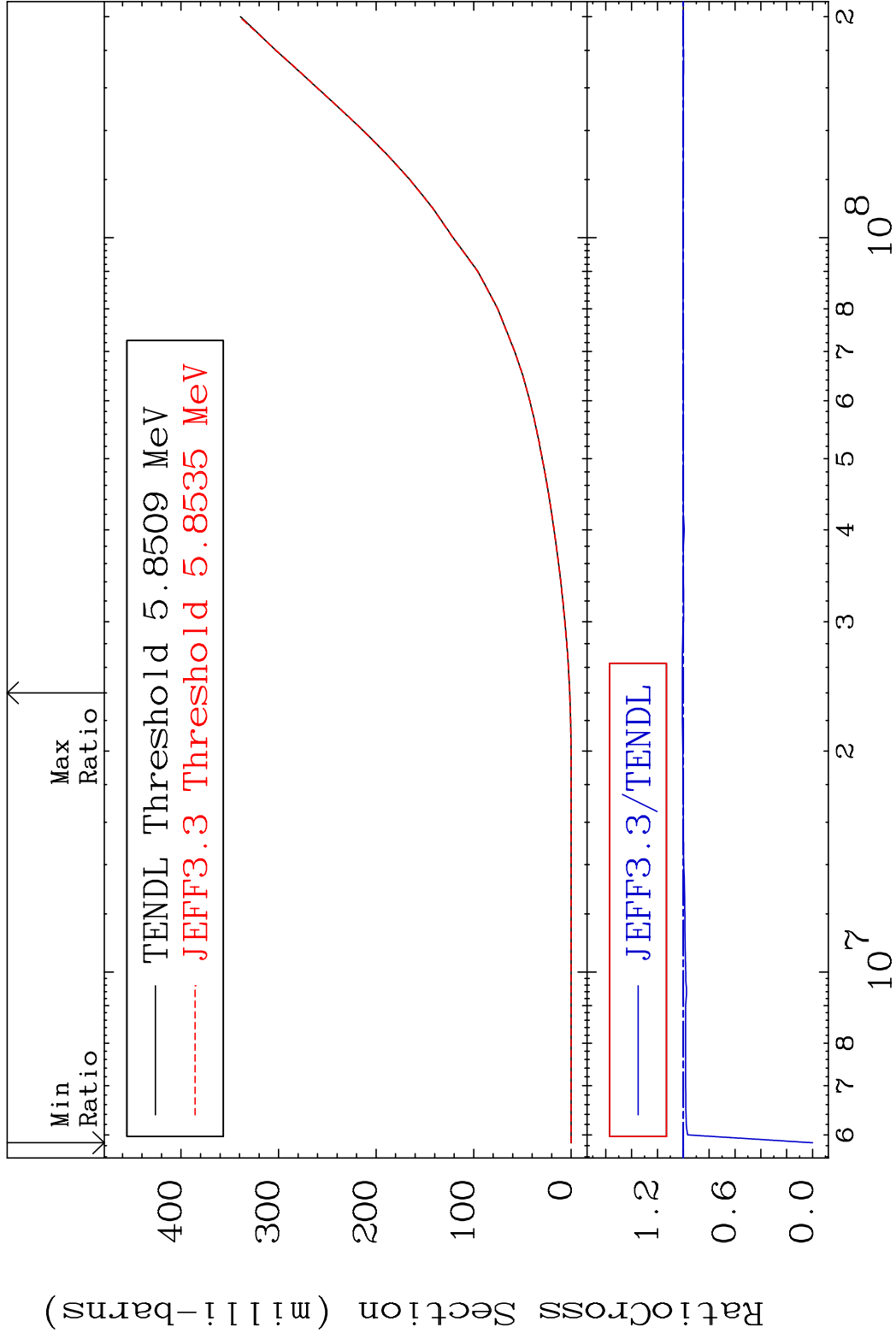
41-Nb-91

MAT 4119

He-3 Production

41-Nb-91

Cross Section -100.0 To 0.752 %



50

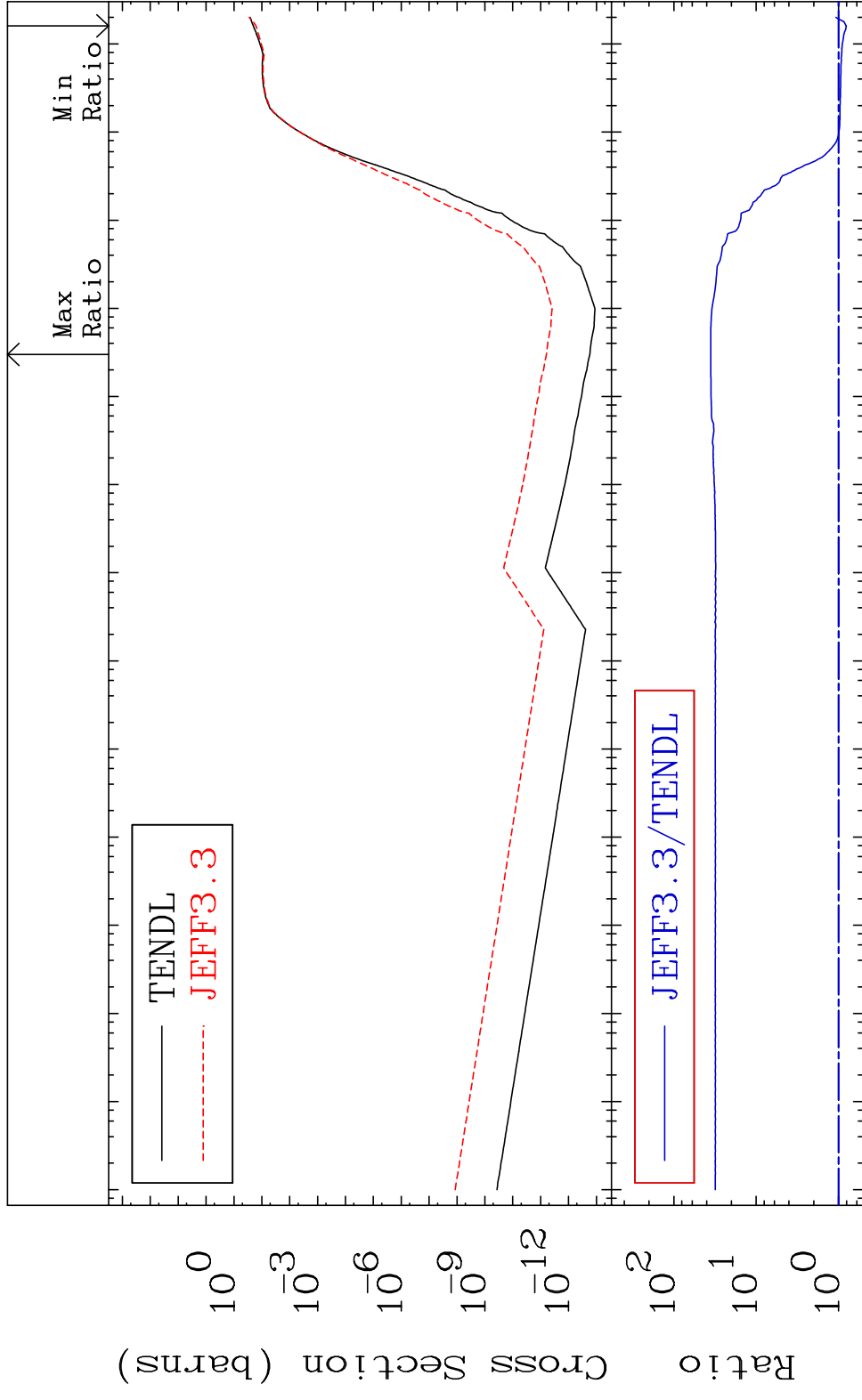
Incident Energy (eV)

41-Nb-91

MAT 4119

He-4 Production
Cross Section -19.50 To 3470. %

41-Nb-91

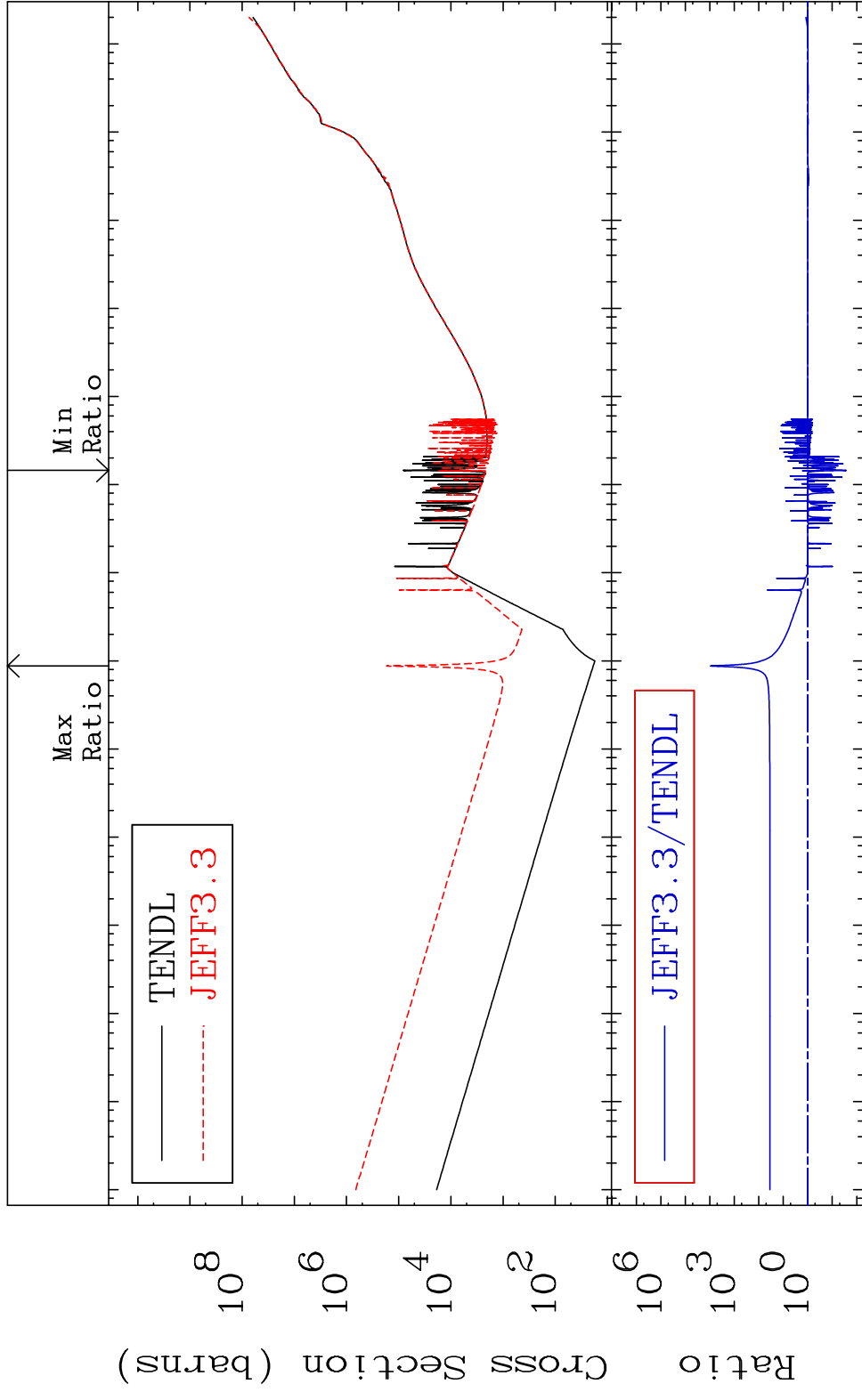


51

Incident Energy (eV)

41-Nb-91

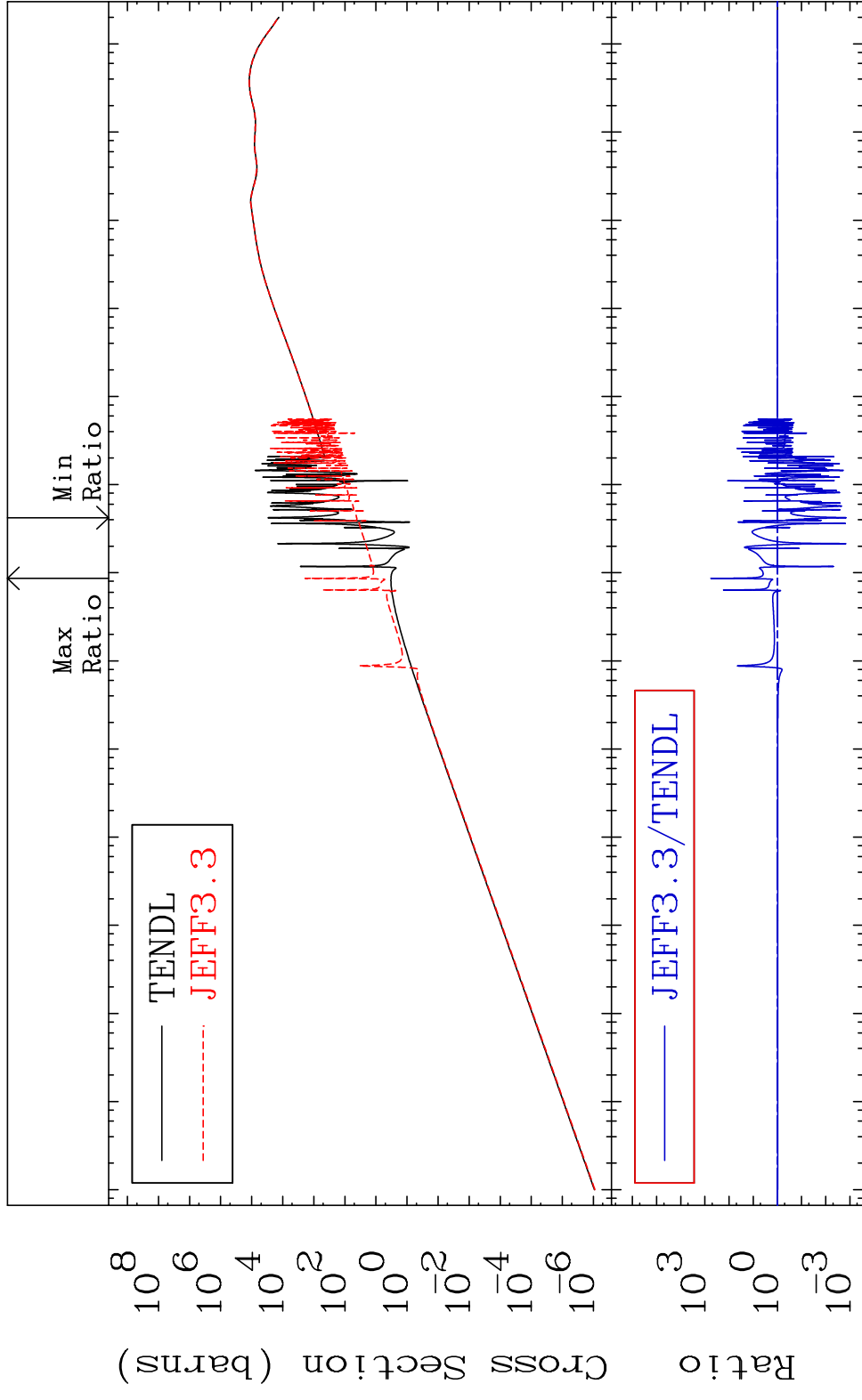
MAT 4119 Kerma total (eV-barns) 41-Nb-91
 Cross Section -97.34 To 9999. %



52 Incident Energy (eV) 41-Nb-91

MAT 4119

Kerma elastic Cross Section -99.86 To 9999. %
41-Nb-91

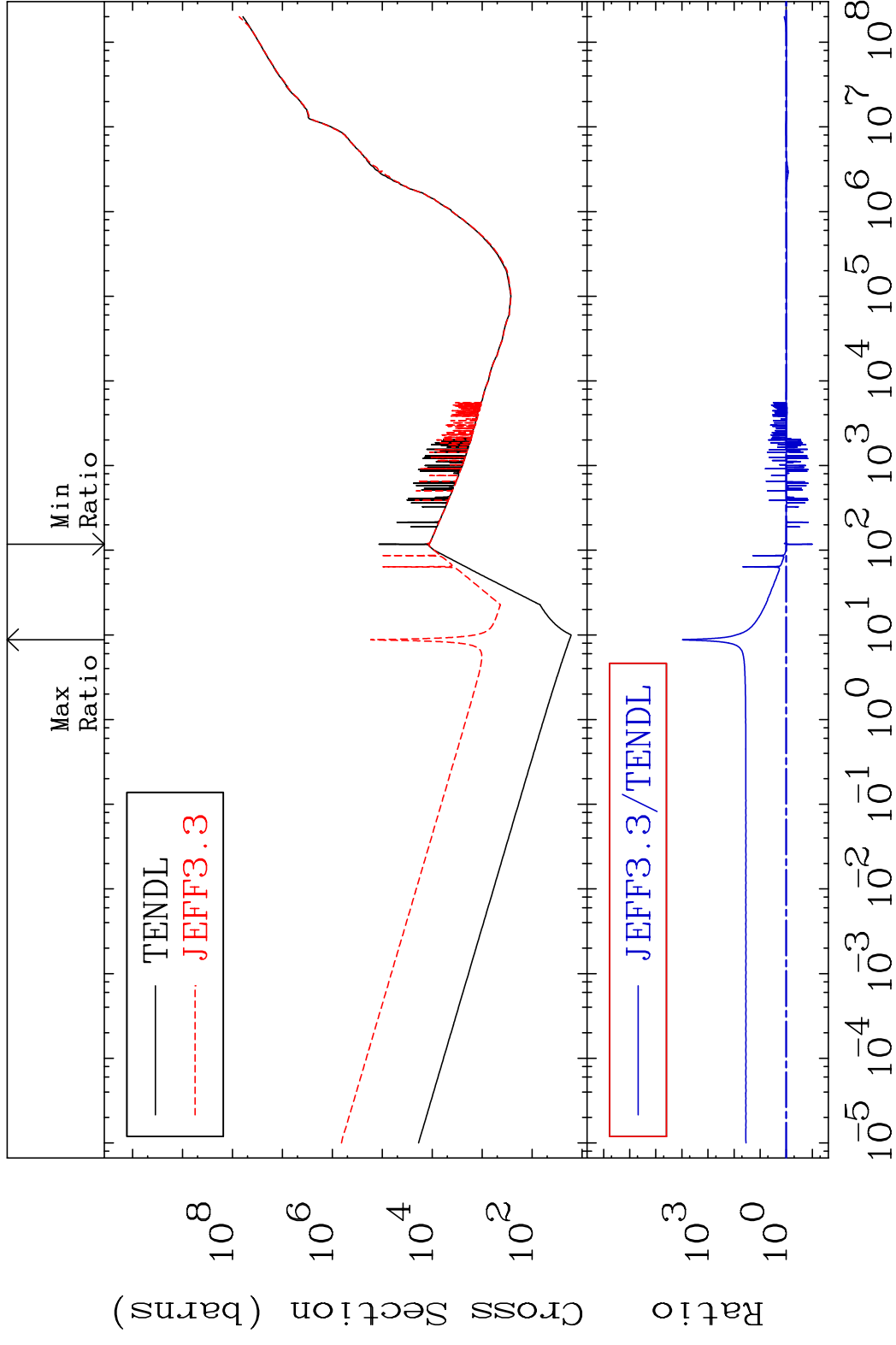


53

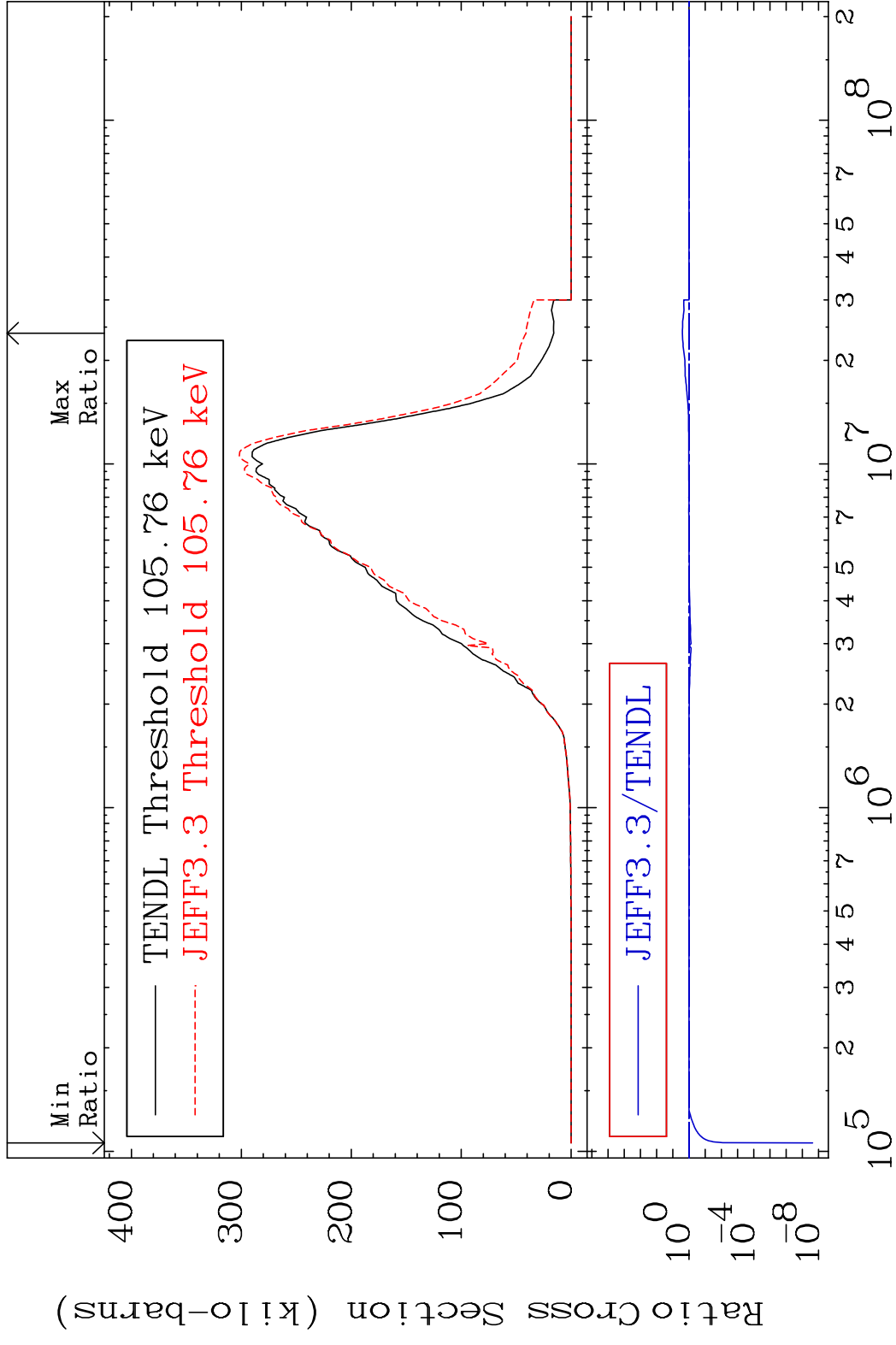
Incident Energy (eV)

41-Nb-91

MAT 4119 Kerma non-elastic (all but mt2) 41-Nb-91
 Cross Section -90.21 To 9999. %

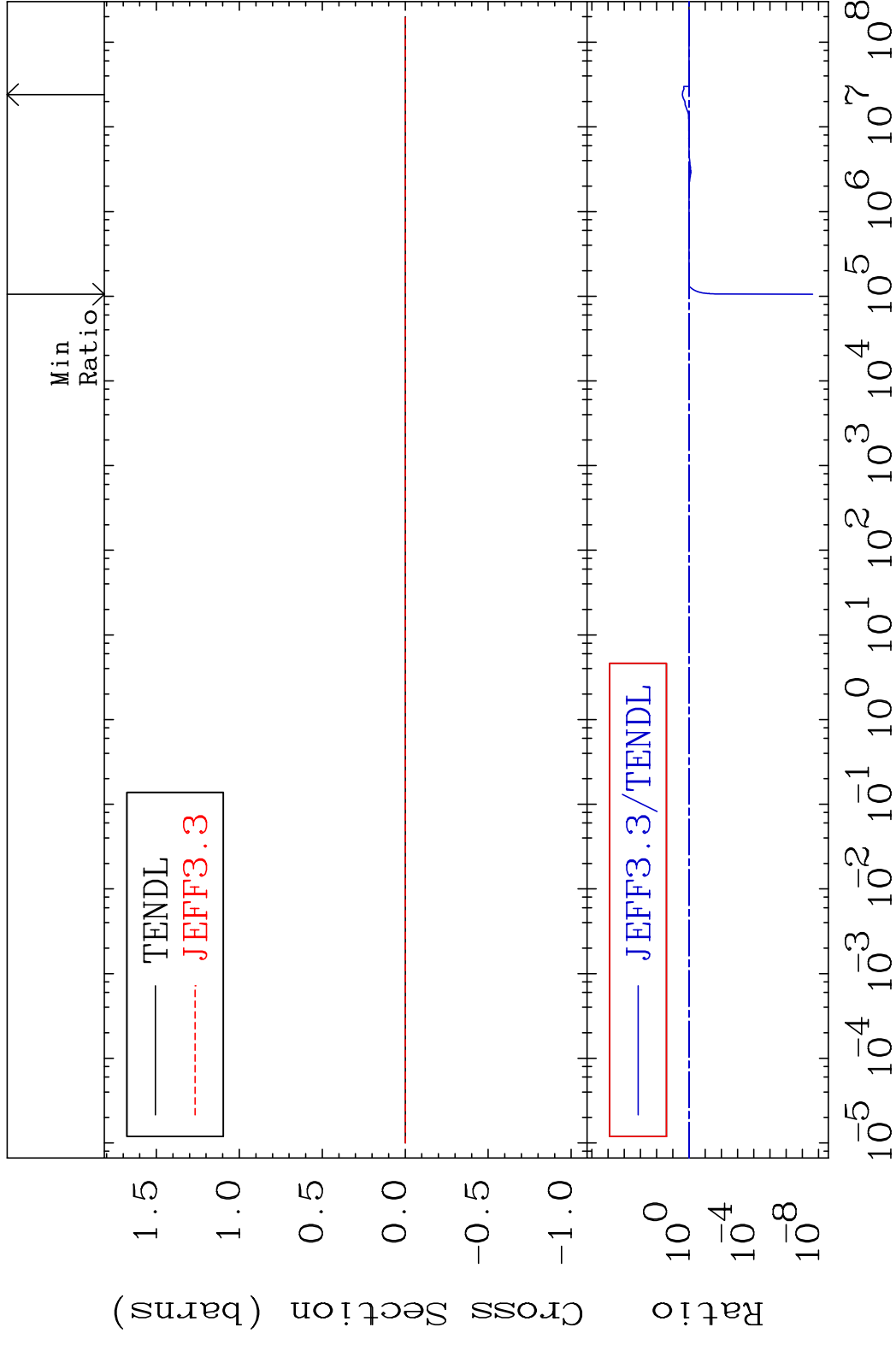


MAT 4119 Kerma inelastic (mt51-91) 41-Nb-91
 Cross Section -100.0 To 159.7 %



55 Incident Energy (eV) 41-Nb-91

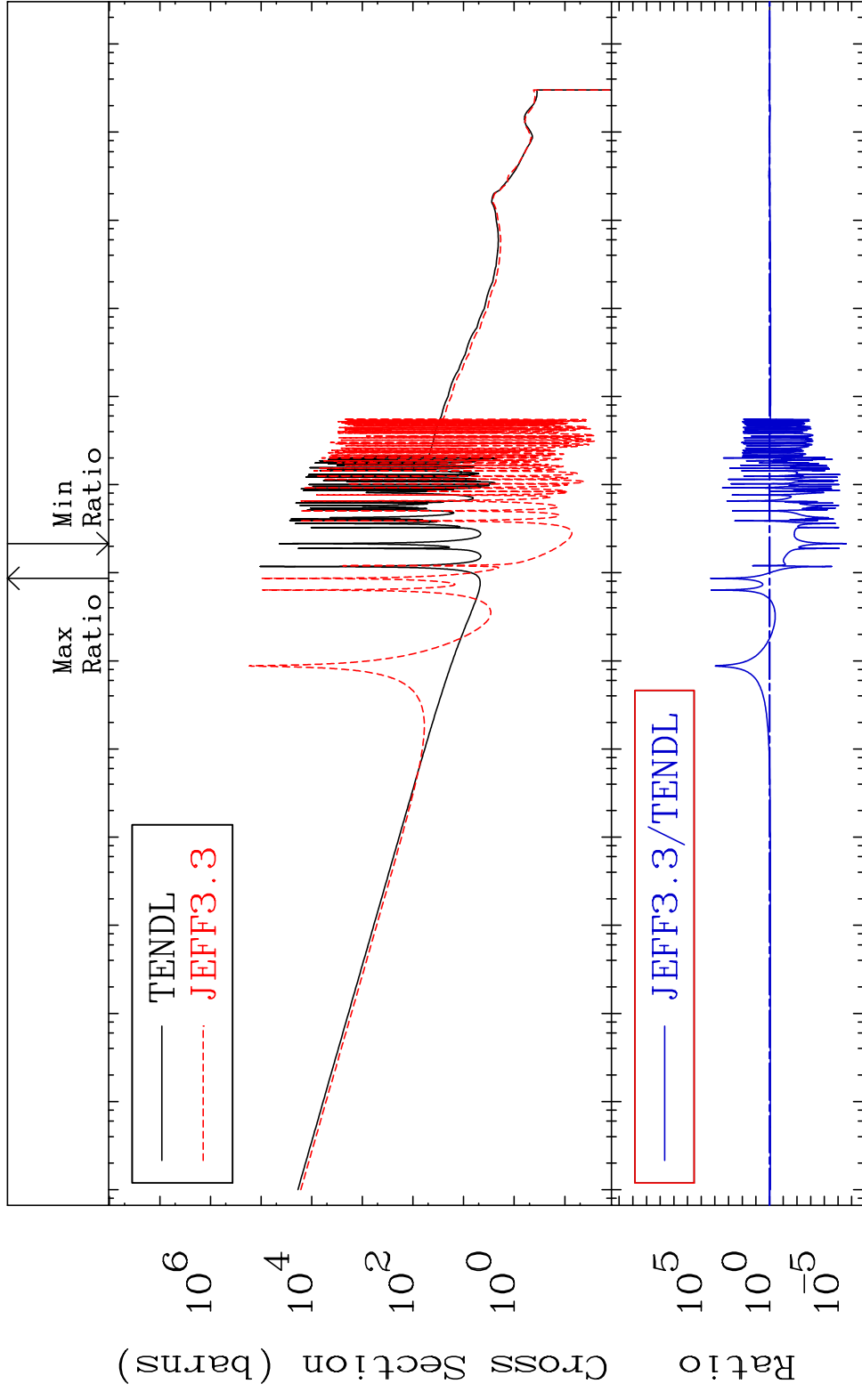
MAT 4119 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-91
 Cross Section -100.0 To 159.7 %



MAT 4119

Kerma capture (mt102) 41-Nb-91

Cross Section -100.0 To 9999. %

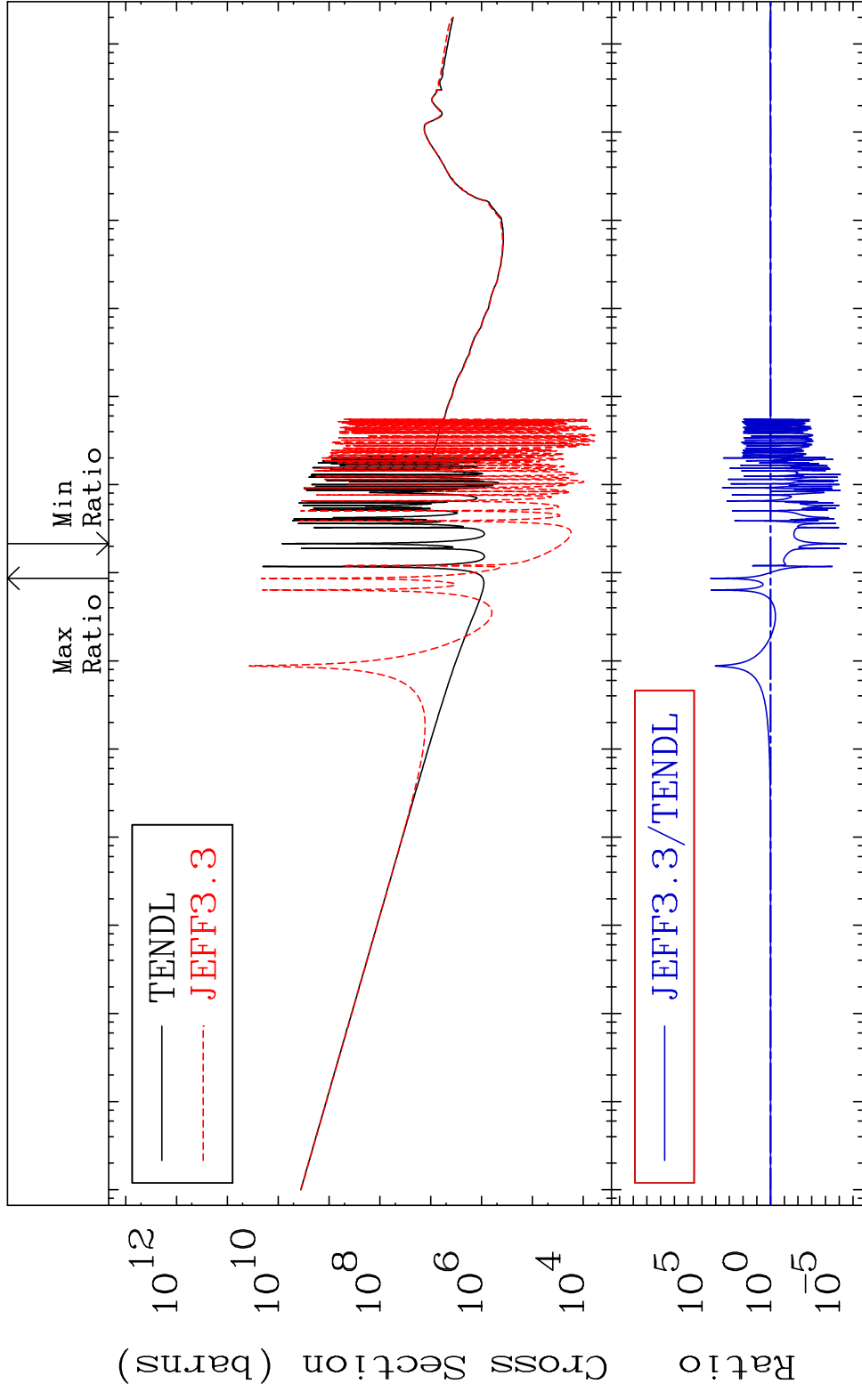


57

Incident Energy (eV)

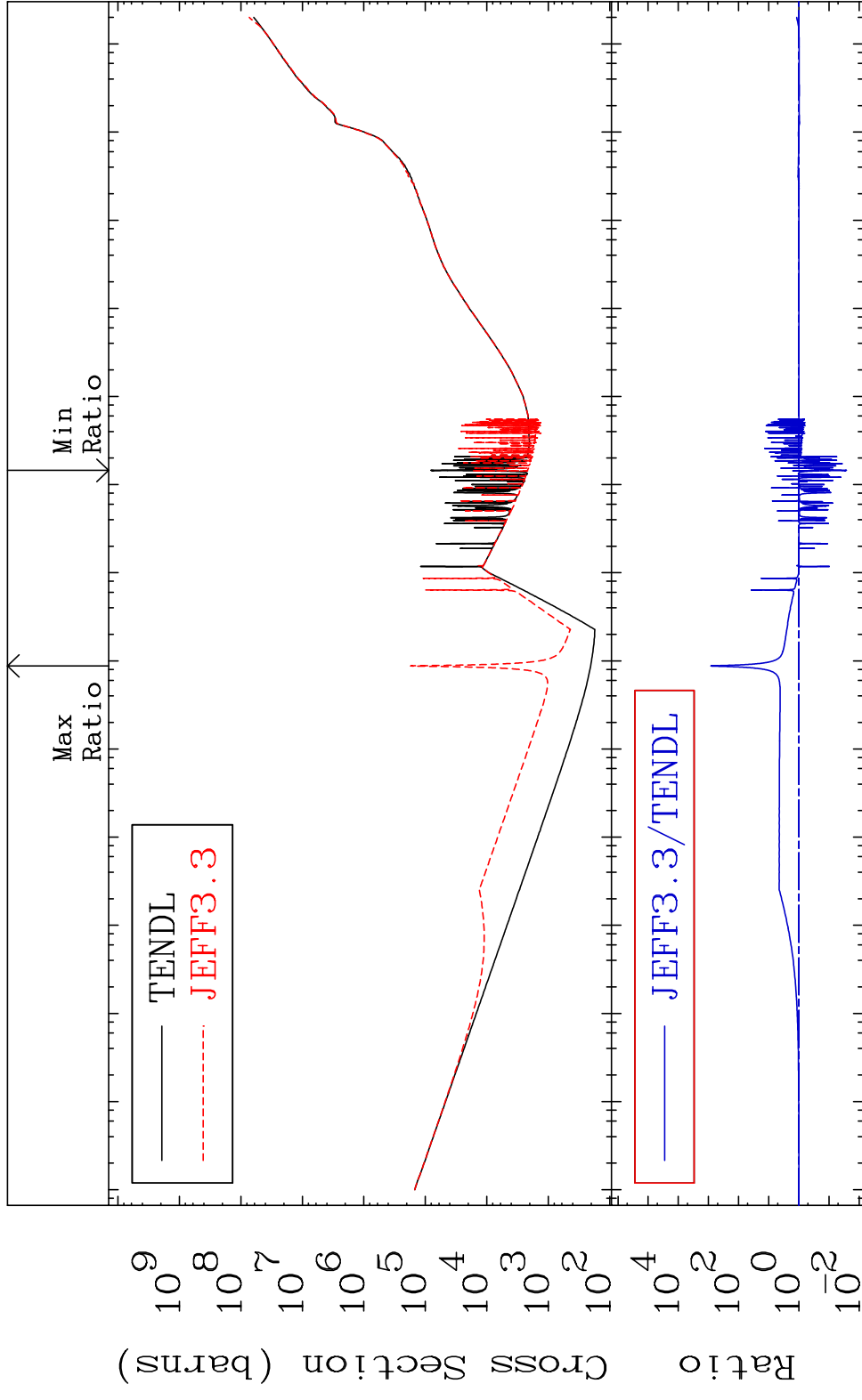
41-Nb-91

MAT 4119 Total photon (eV-barns) 41-Nb-91
 Cross Section -100.0 To 9999. %

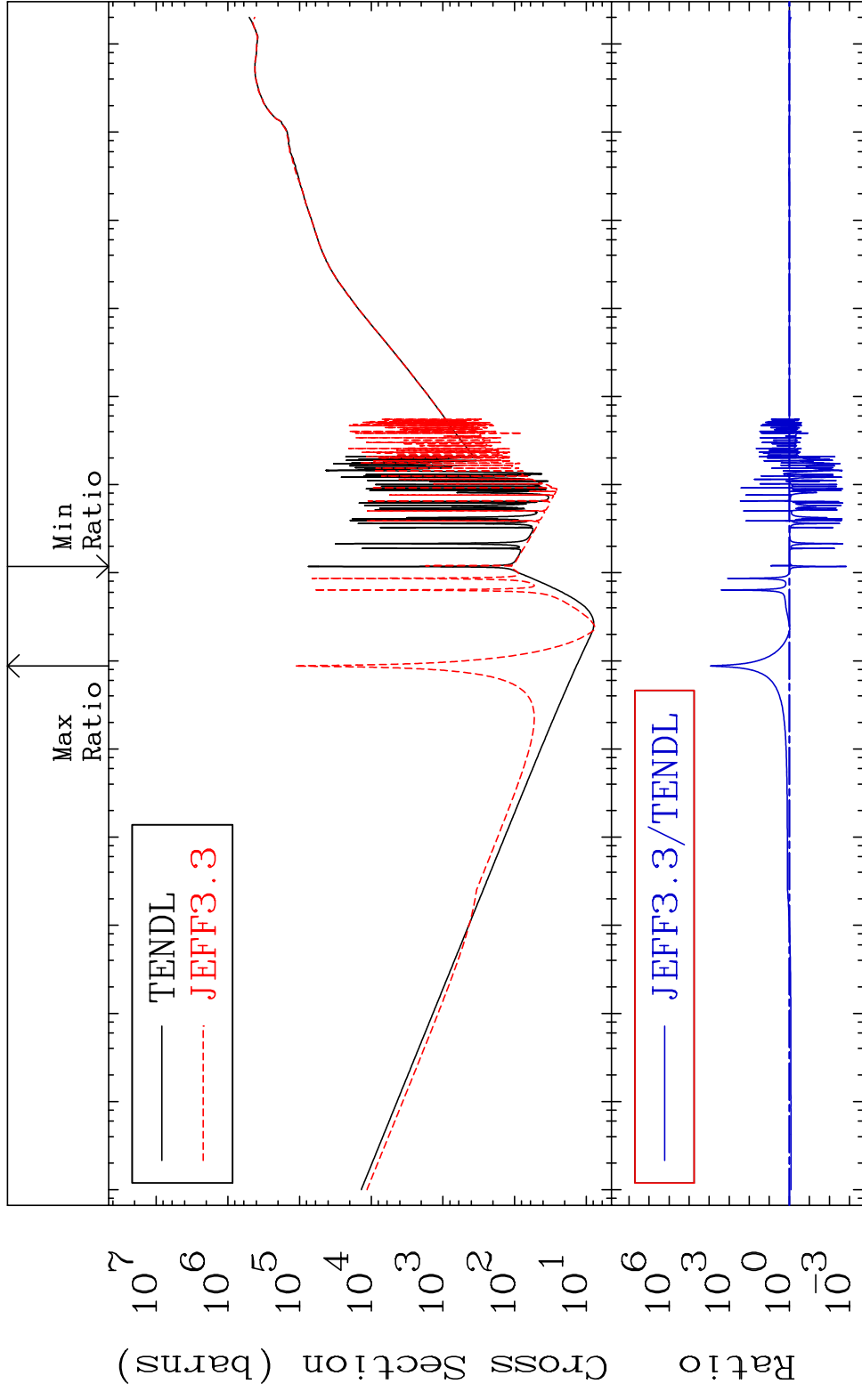


58 Incident Energy (eV) 41-Nb-91

MAT 4119 Total kinematic kerma (high limit) 41-Nb-91
 Cross Section -97.32 To 9999. %



MAT 4119 Dpa total (eV-barns) 41-Nb-91
 Cross Section -99.86 To 9999. %



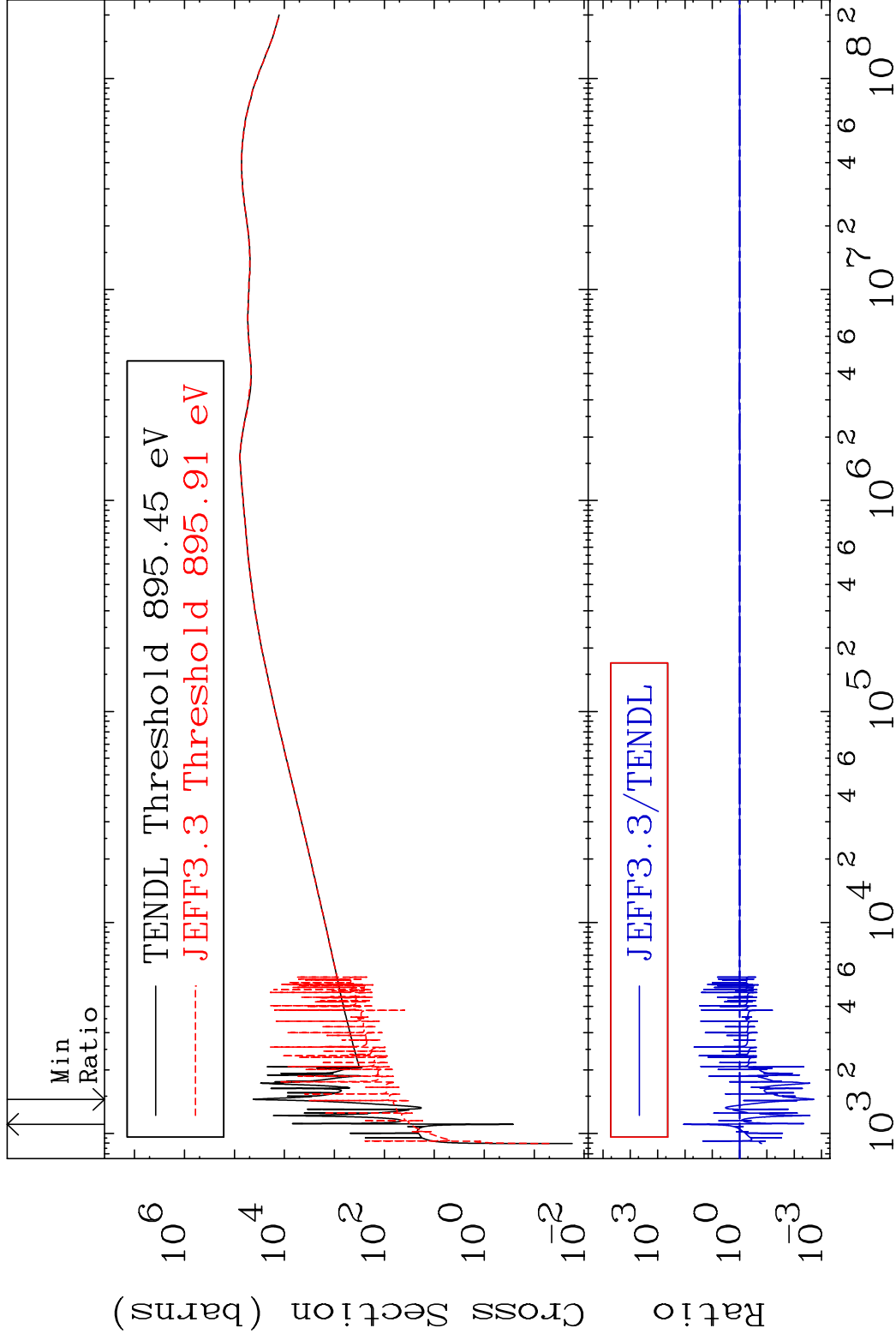
60 Incident Energy (eV) 41-Nb-91

MAT 4119

Dpa elastic (mt2)

41-Nb-91

Cross Section -99.81 To 9999. %



61

Incident Energy (eV)

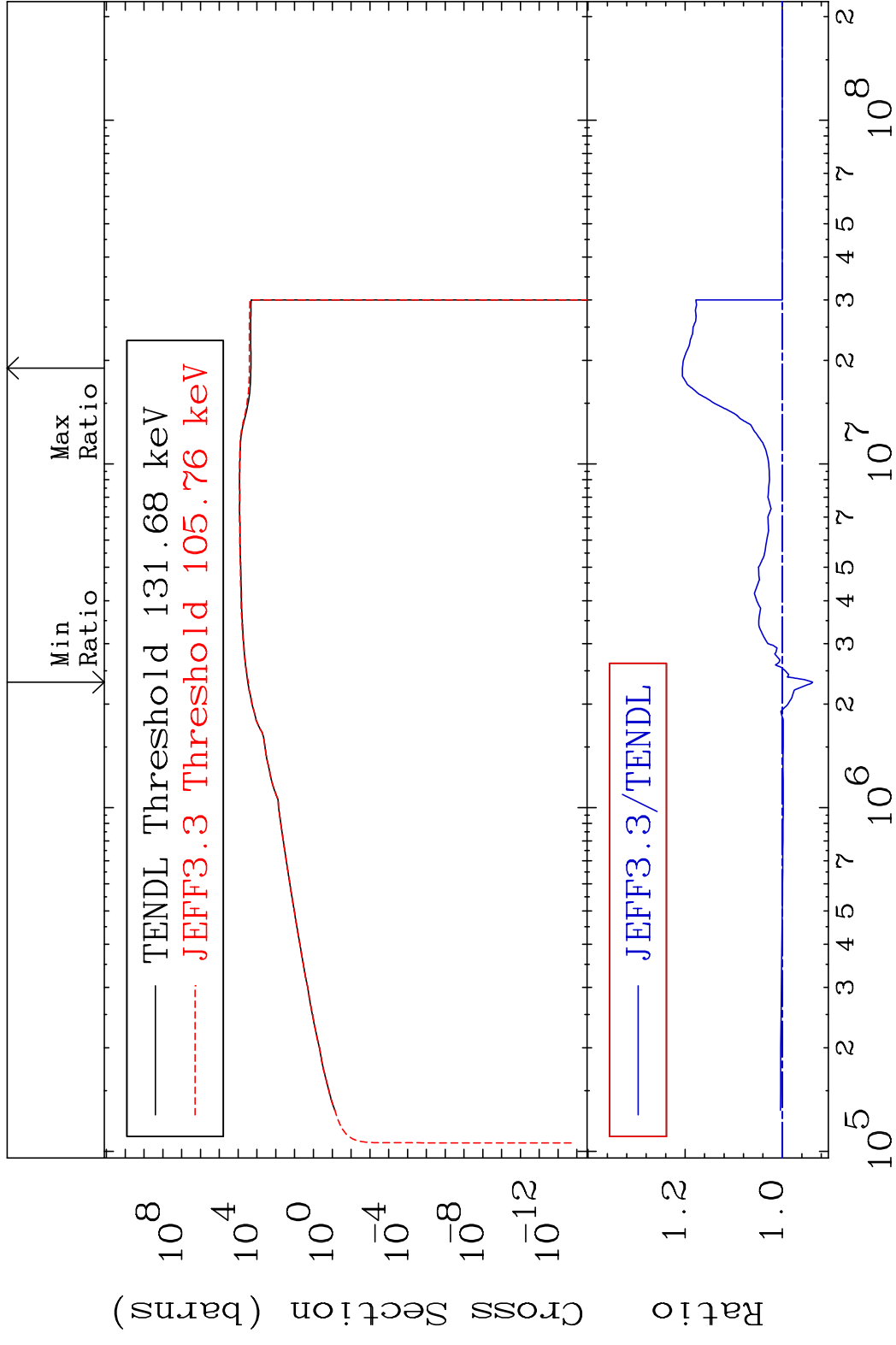
41-Nb-91

MAT 4119

Dpa inelastic (mt51-91)

41-Nb-91

Cross Section -6.205 To 20.57 %

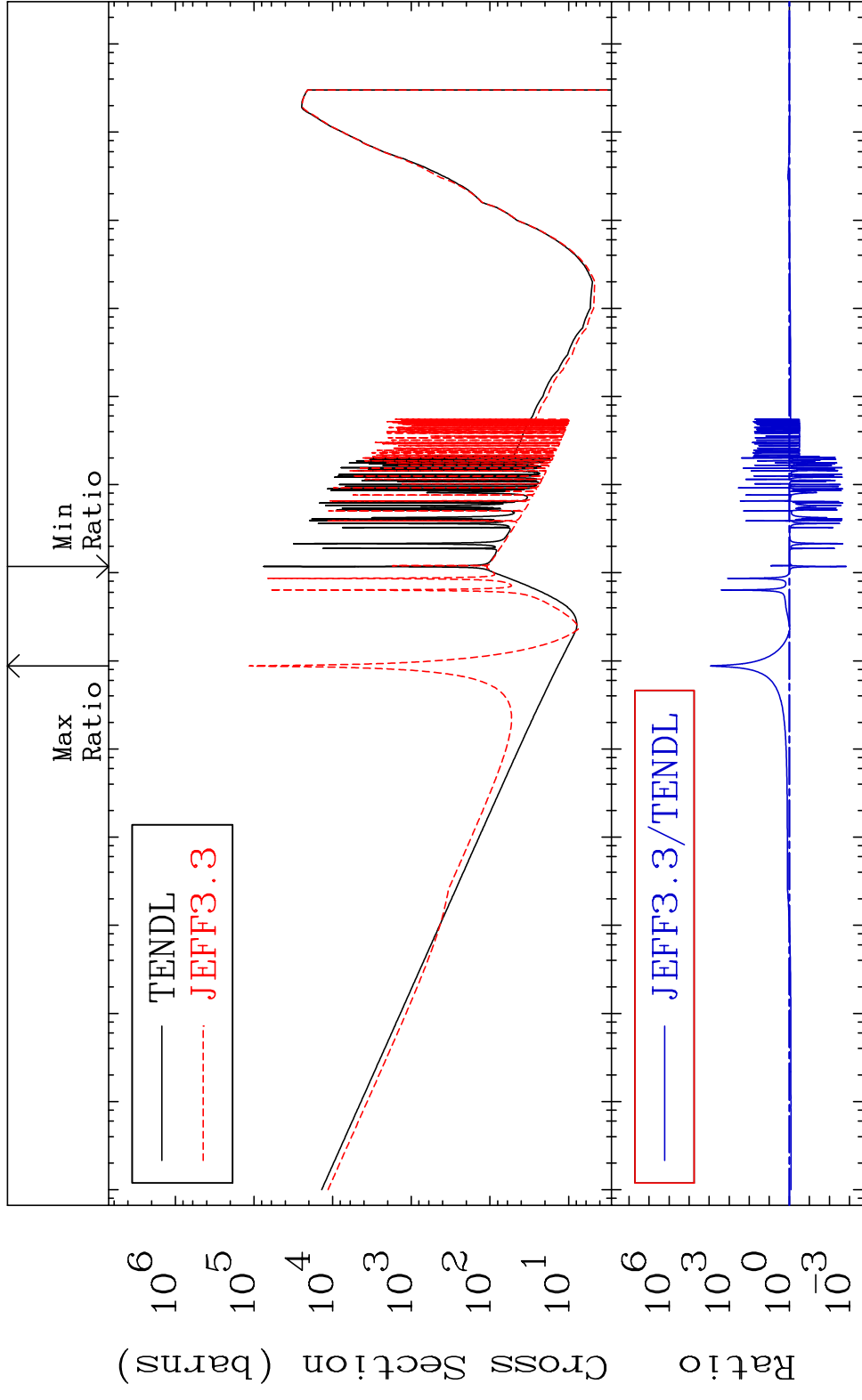


62

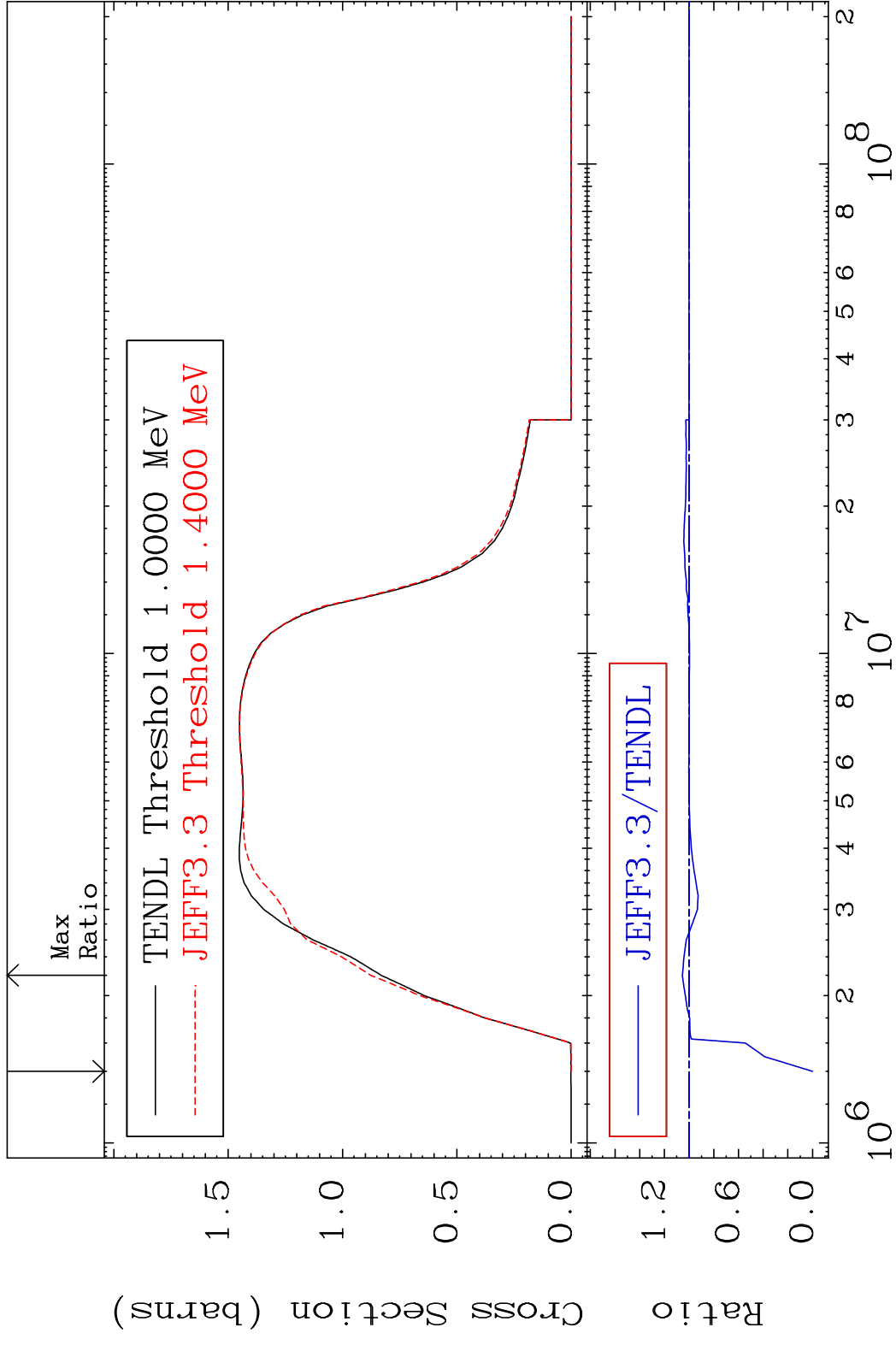
Incident Energy (eV)

41-Nb-91

MAT 4119 Dpa disappearance (mt102 -120) 41-Nb-91
 Cross Section -99.86 To 9999. %

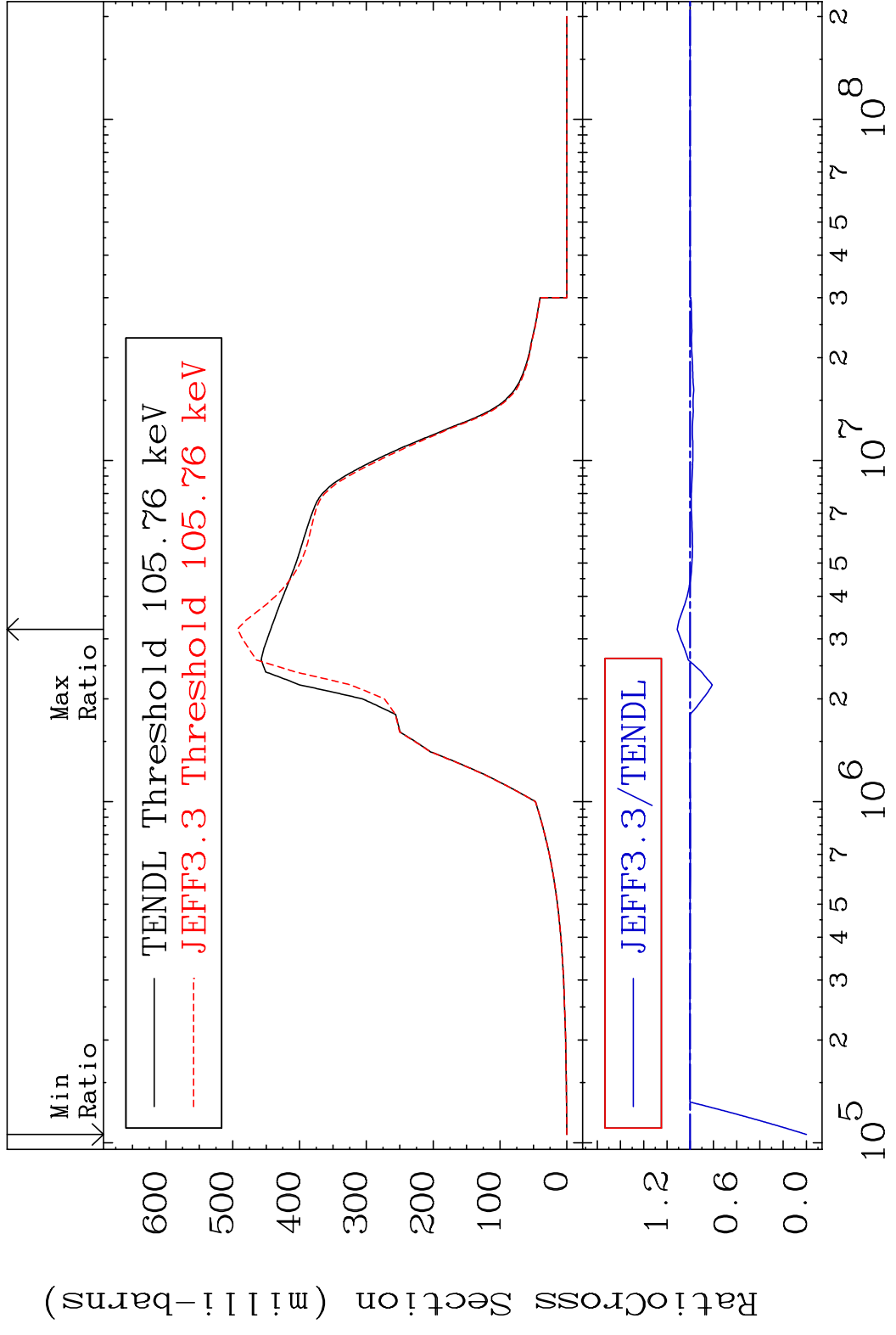


MAT 4119 Inelastic:41-Nb-91g 41-Nb-91
 Radionuclide Production Cross Section 5.453 %



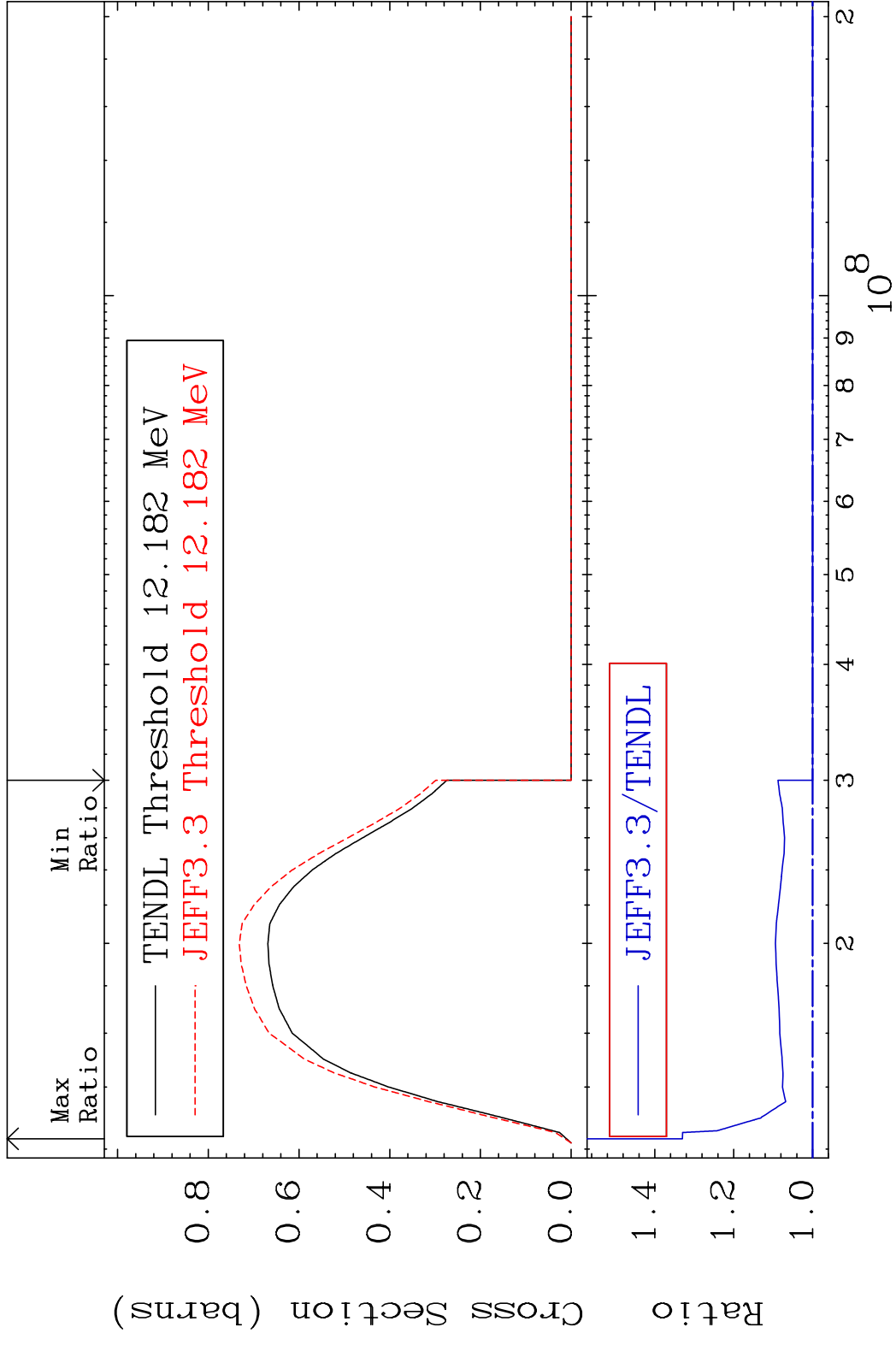
64 Incident Energy (eV) 41-Nb-91

MAT 4119 Inelastic:41-Nb-91m1 41-Nb-91
 Radionuclide Production Cross Section Ratio 11.21 %

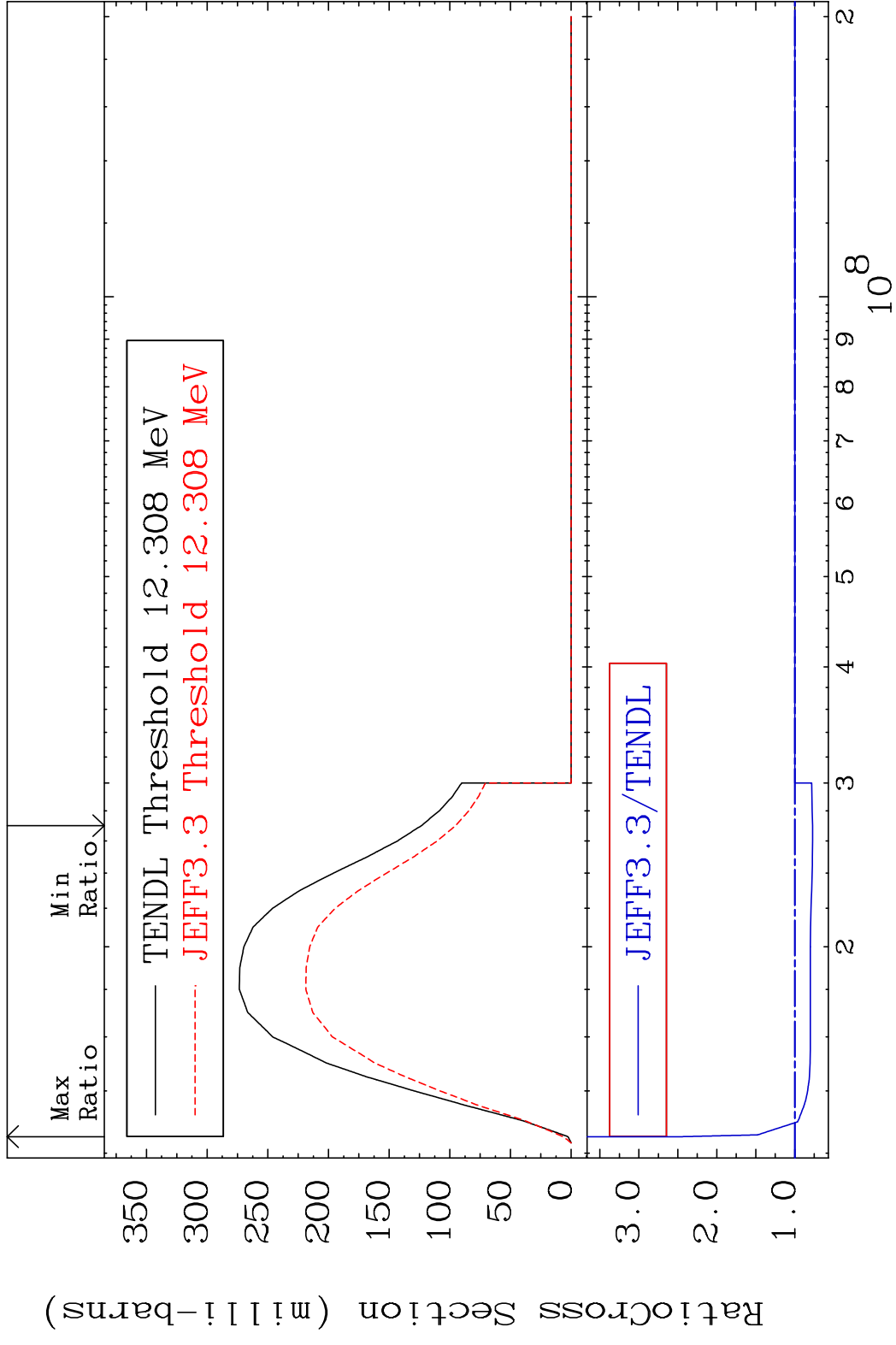


65 Incident Energy (eV) 41-Nb-91

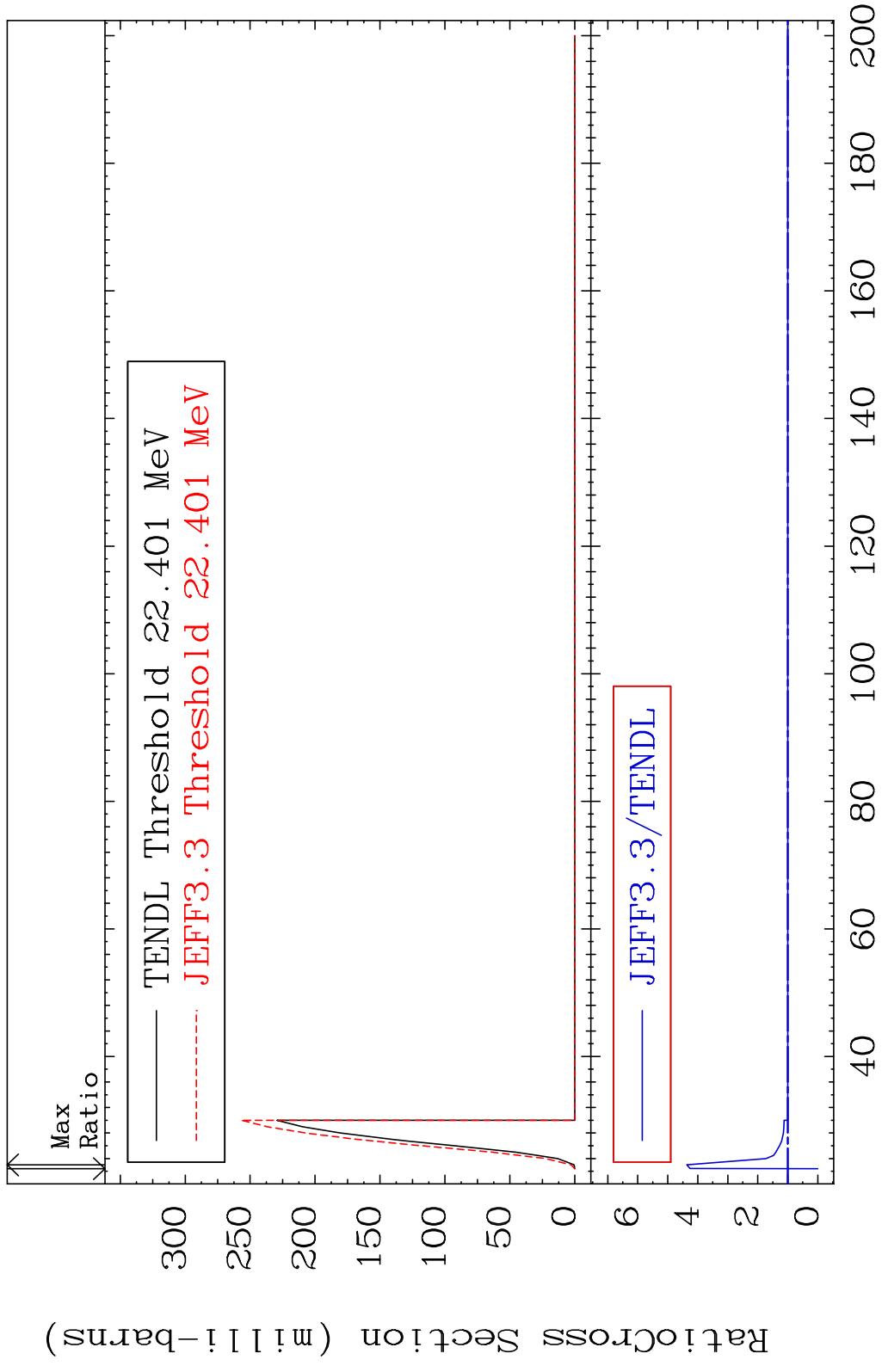
MAT 4119 (n,2n):41-Nb-90g 41-Nb-91
 Radionuclide Production Cross Section 33.00 %



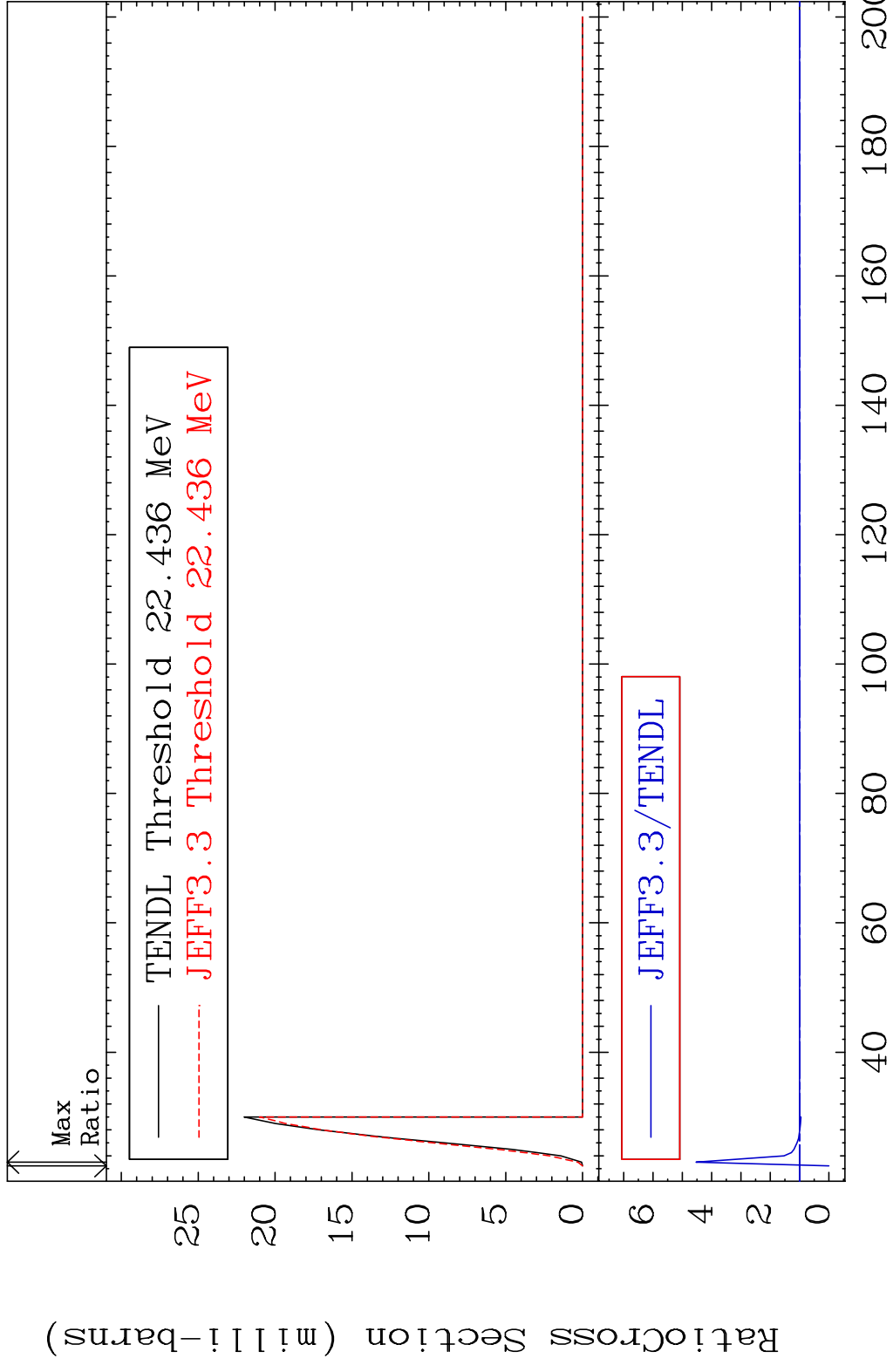
MAT 4119 (n,2n):41-Nb-90m2 41-Nb-91
 Radionuclide Production Cross Section 144.2 %



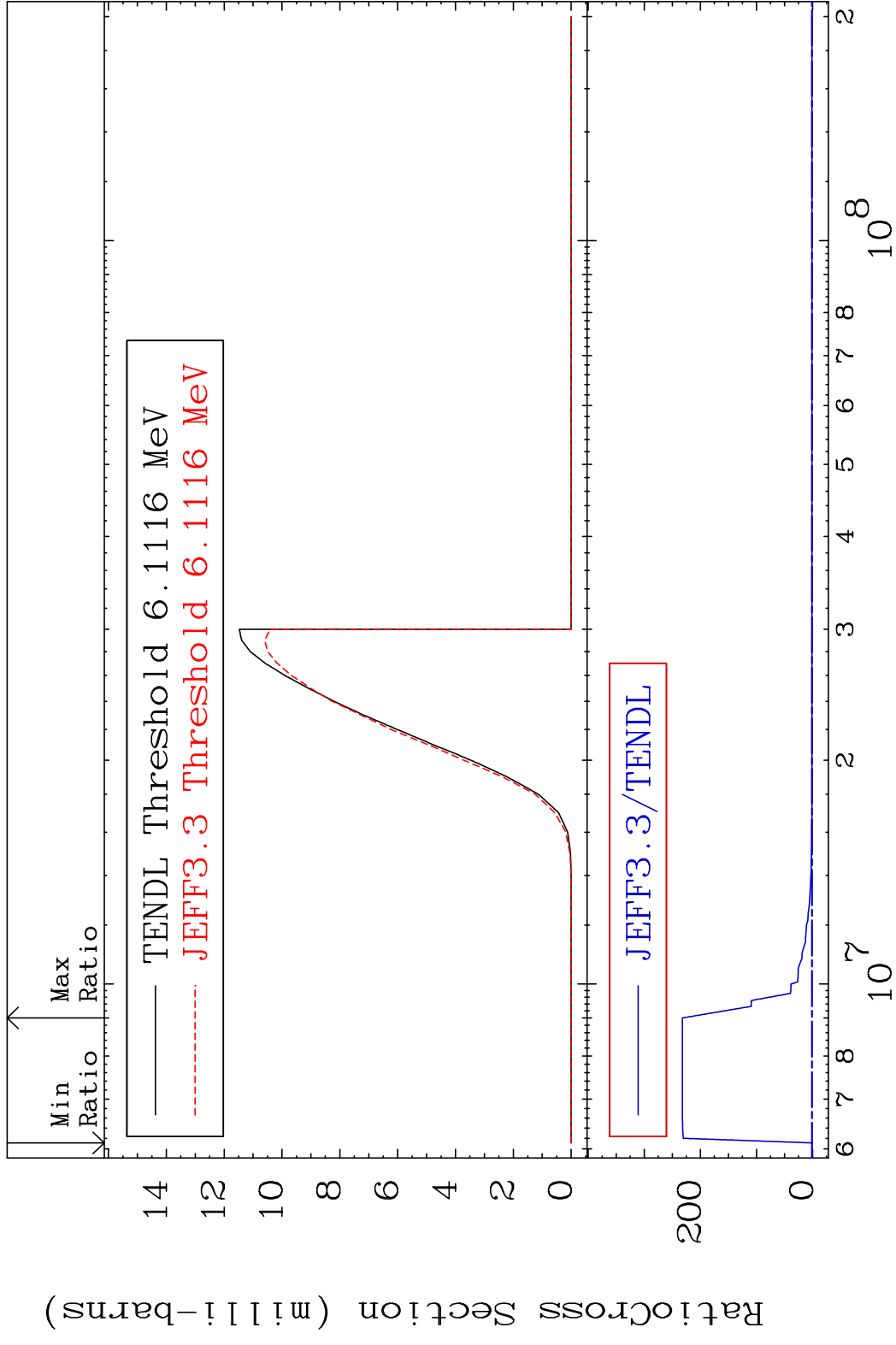
MAT 4119 (n,3n):41-Nb-89g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 336.8 %



MAT 4119 (n,3n):41-Nb-89m1 41-Nb-91
 Radionuclide Production Cross Section Ratio 353.2 %

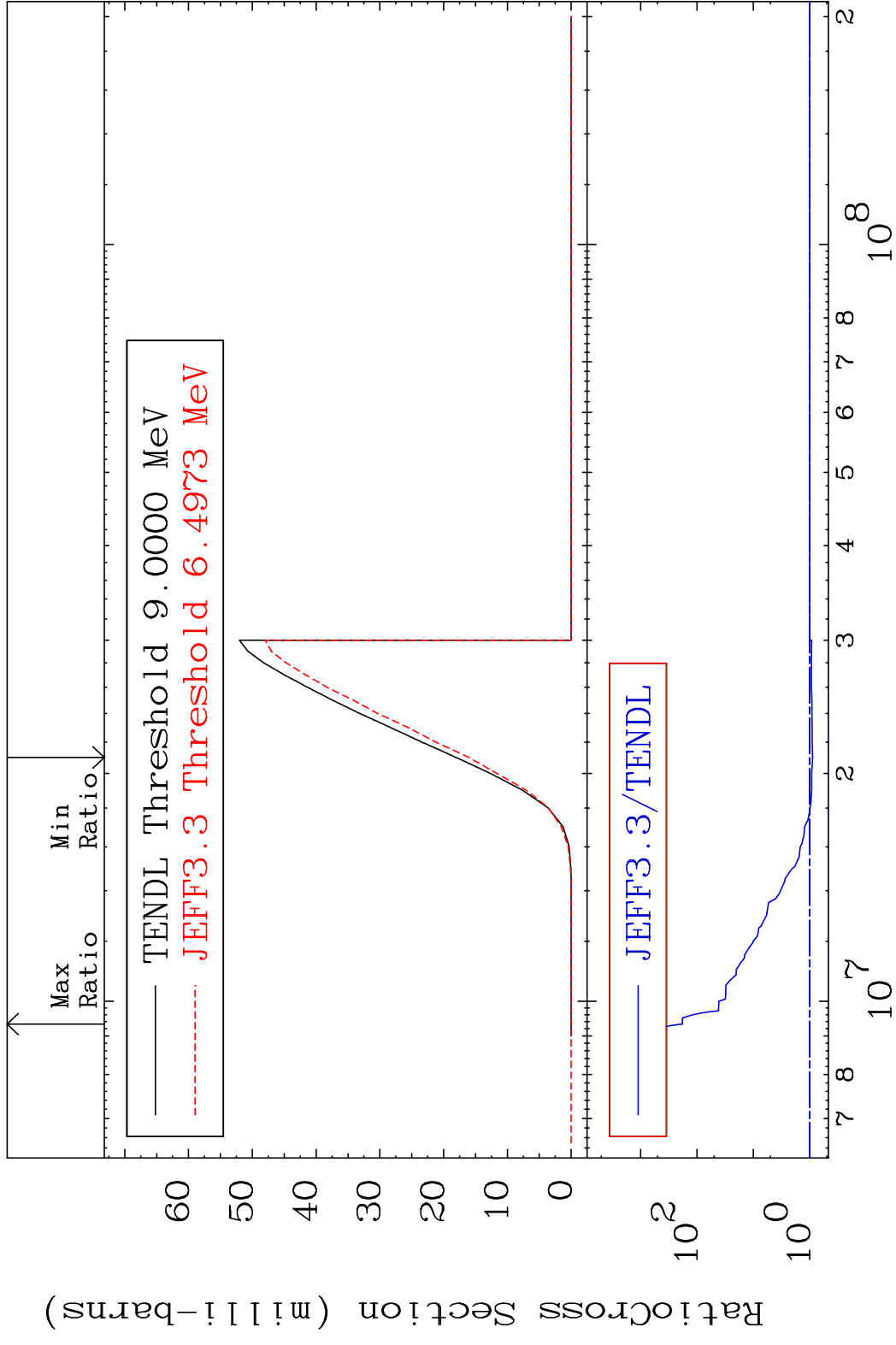


MAT 4119 (n, n') α :39-Y -87g 41-Nb-91
 Radionuclide Production Cross Section 1800 to 9999. %

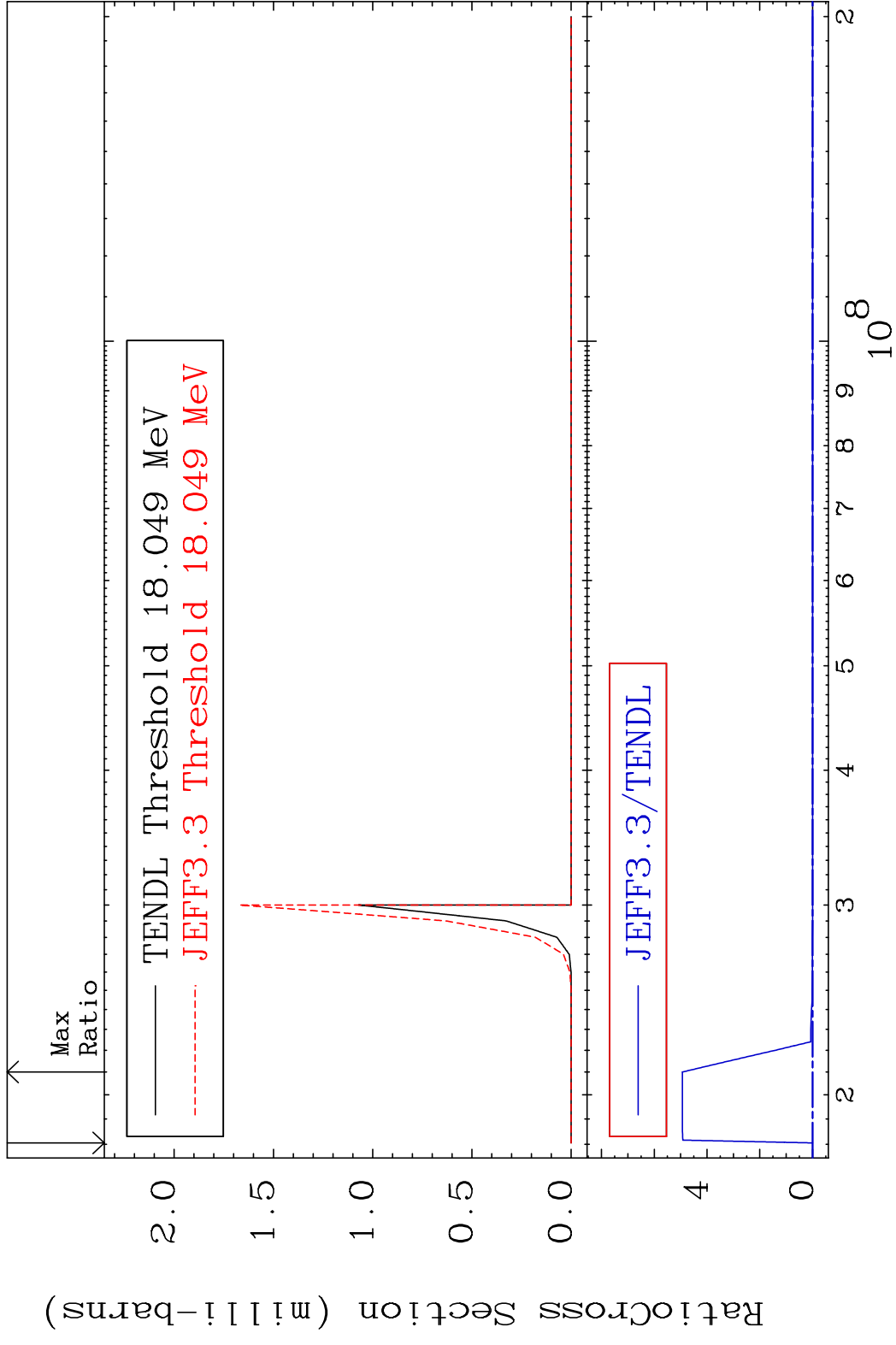


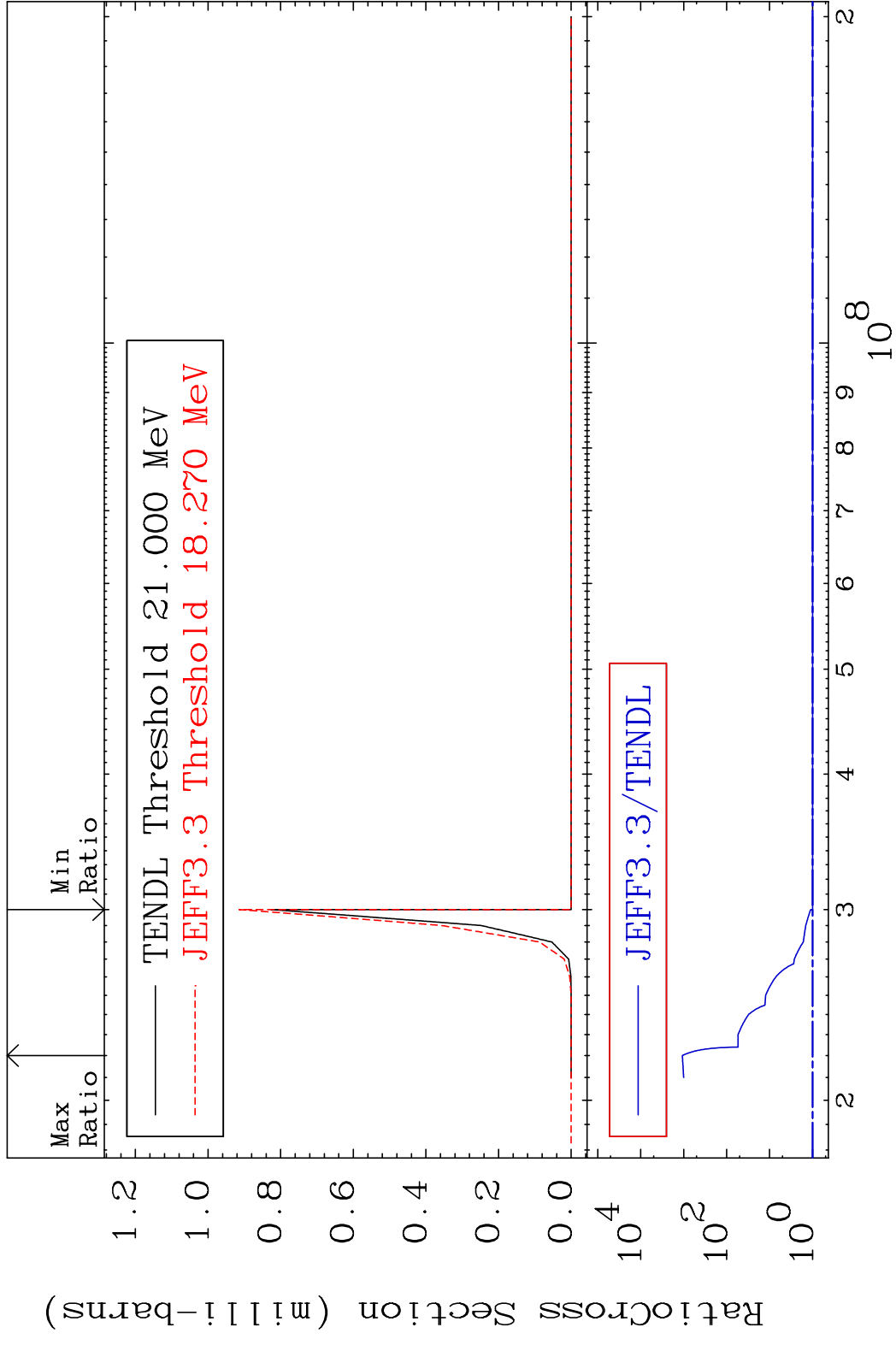
70 Incident Energy (eV) 41-Nb-91

MAT 4119 (n, n') α :39-Y -87m1 41-Nb-91
 Radionuclide Production Cross Section 1Sec41d10 9999. %

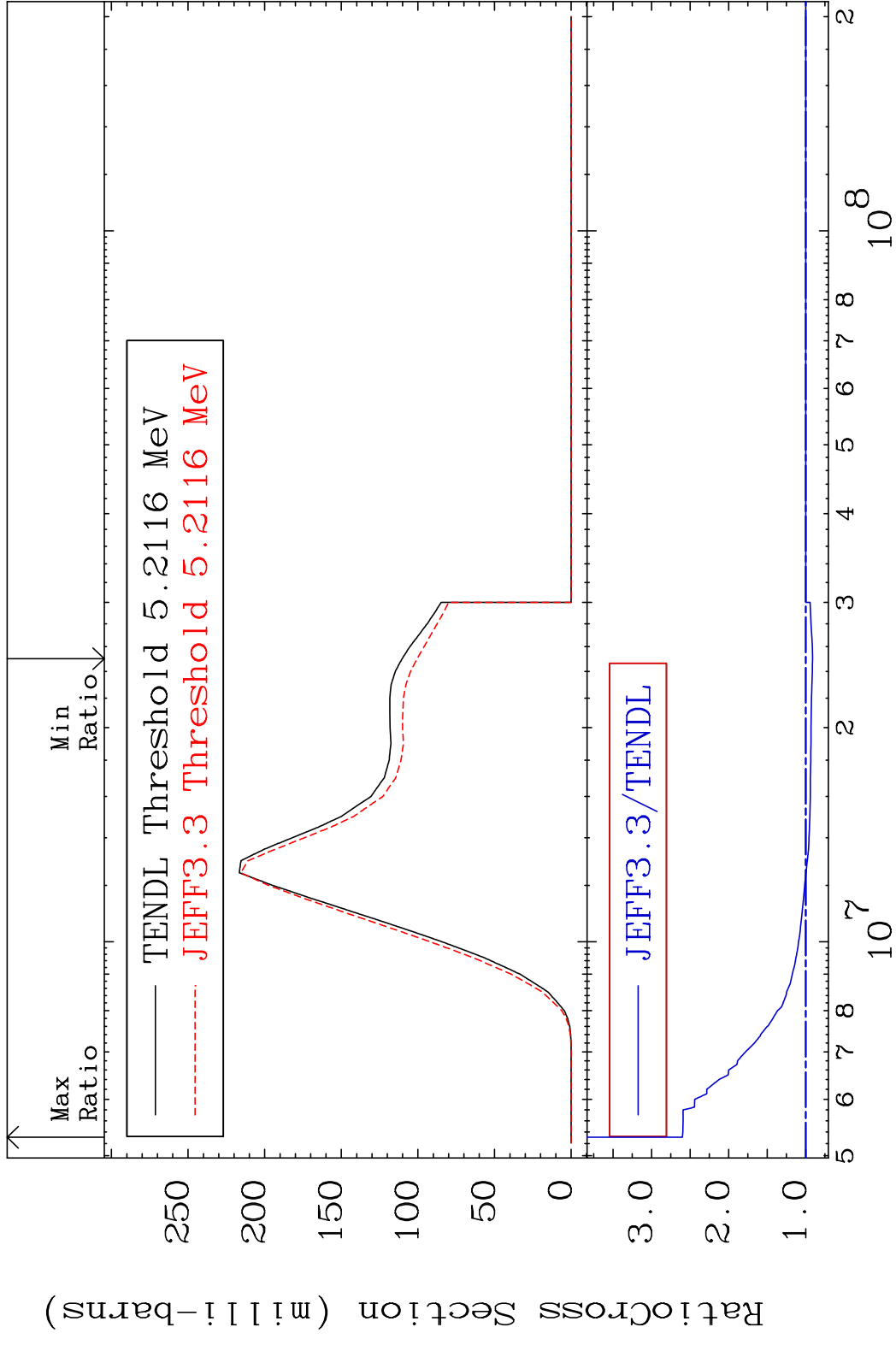


MAT 4119 (n,2n) α :39-Y -86g 41-Nb-91
 Radionuclide Production Cross Section 18.049 MeV 9999. %

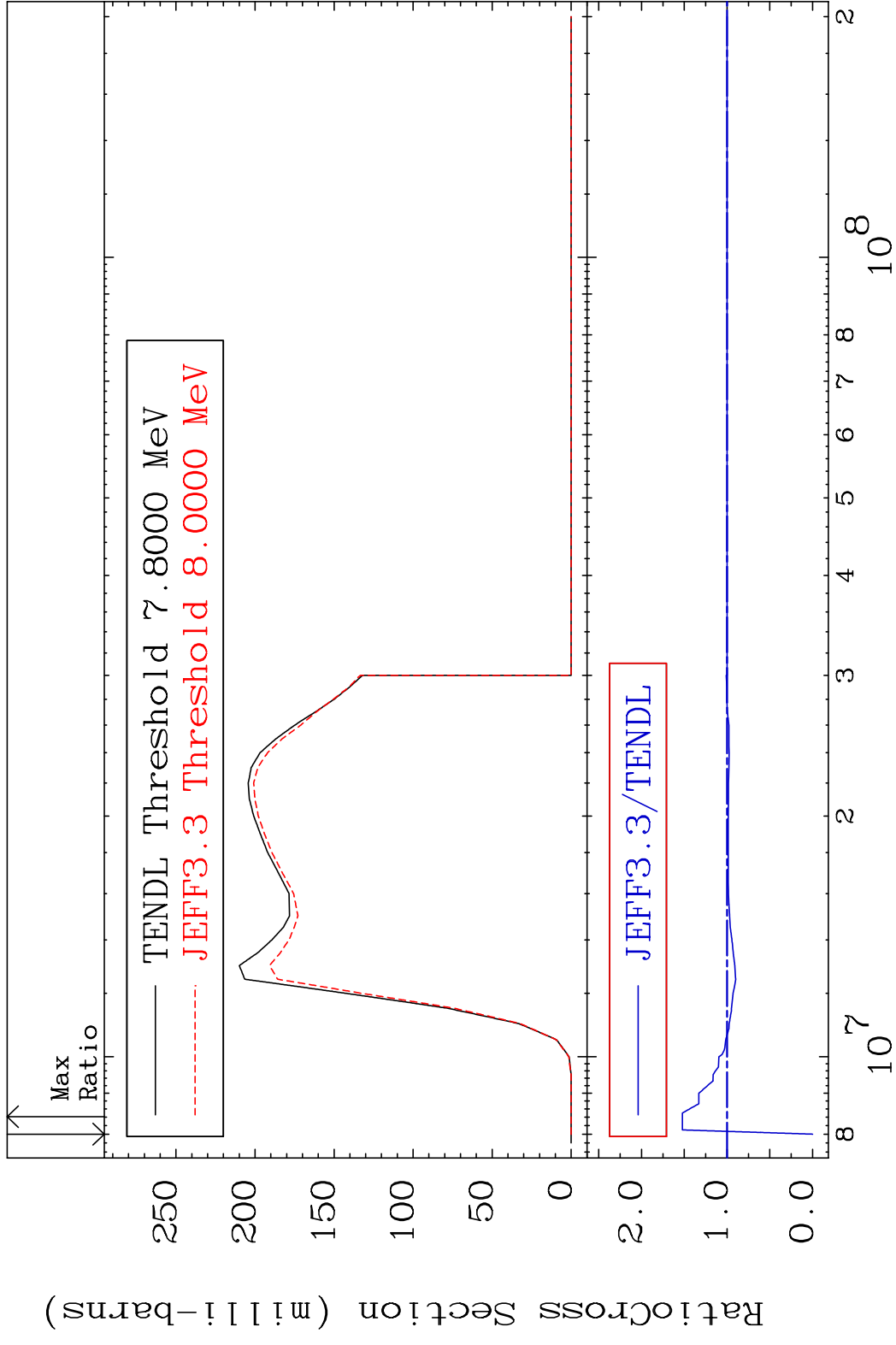




MAT 4119 (n, n') p:40-Zr-90g 41-Nb-91
 Radionuclide Production Cross Section 160.0 %

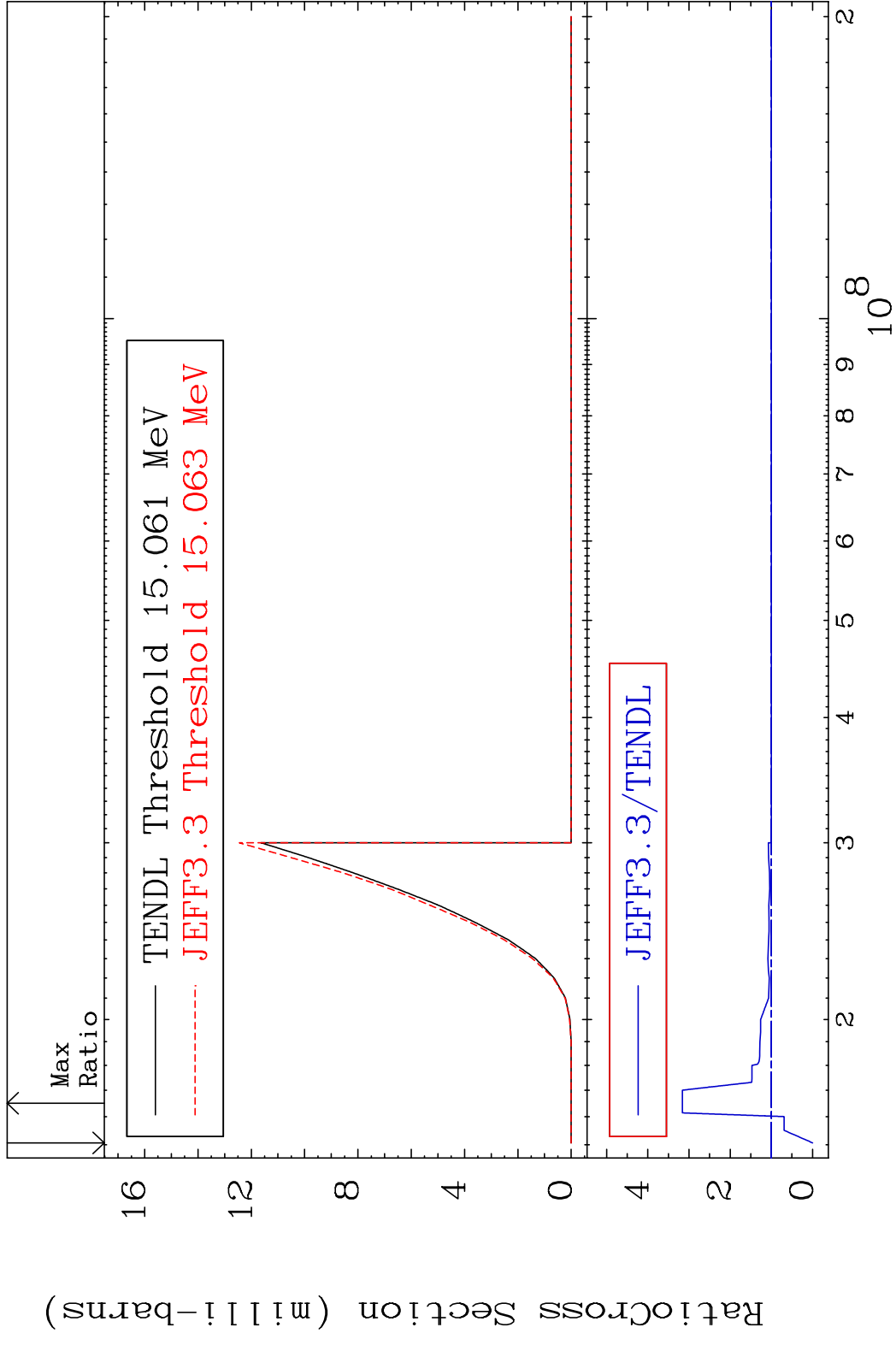


MAT 4119 (n, n') p:40-Zr-90m3 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 52.25 %

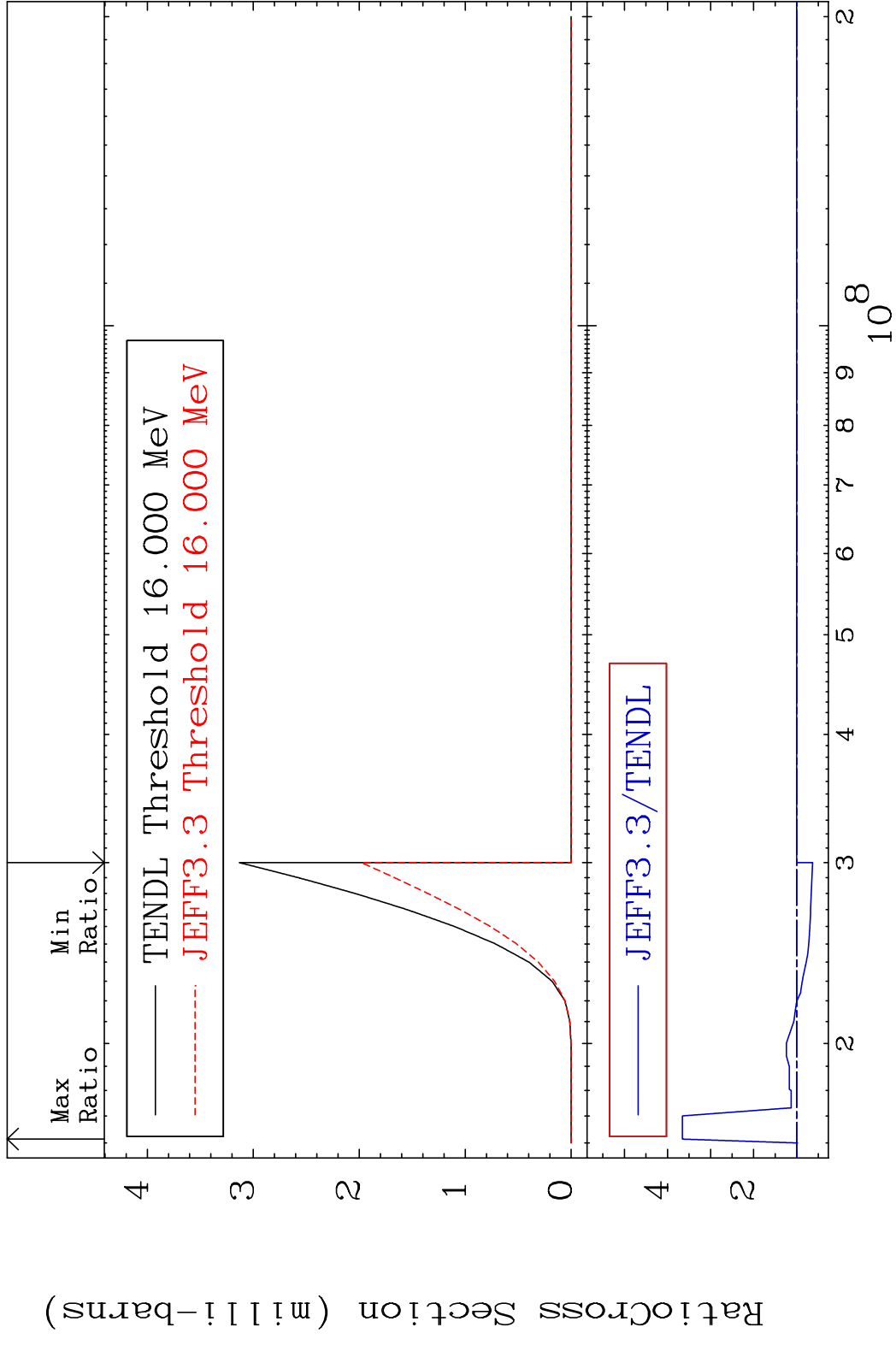


75 Incident Energy (eV) 41-Nb-91

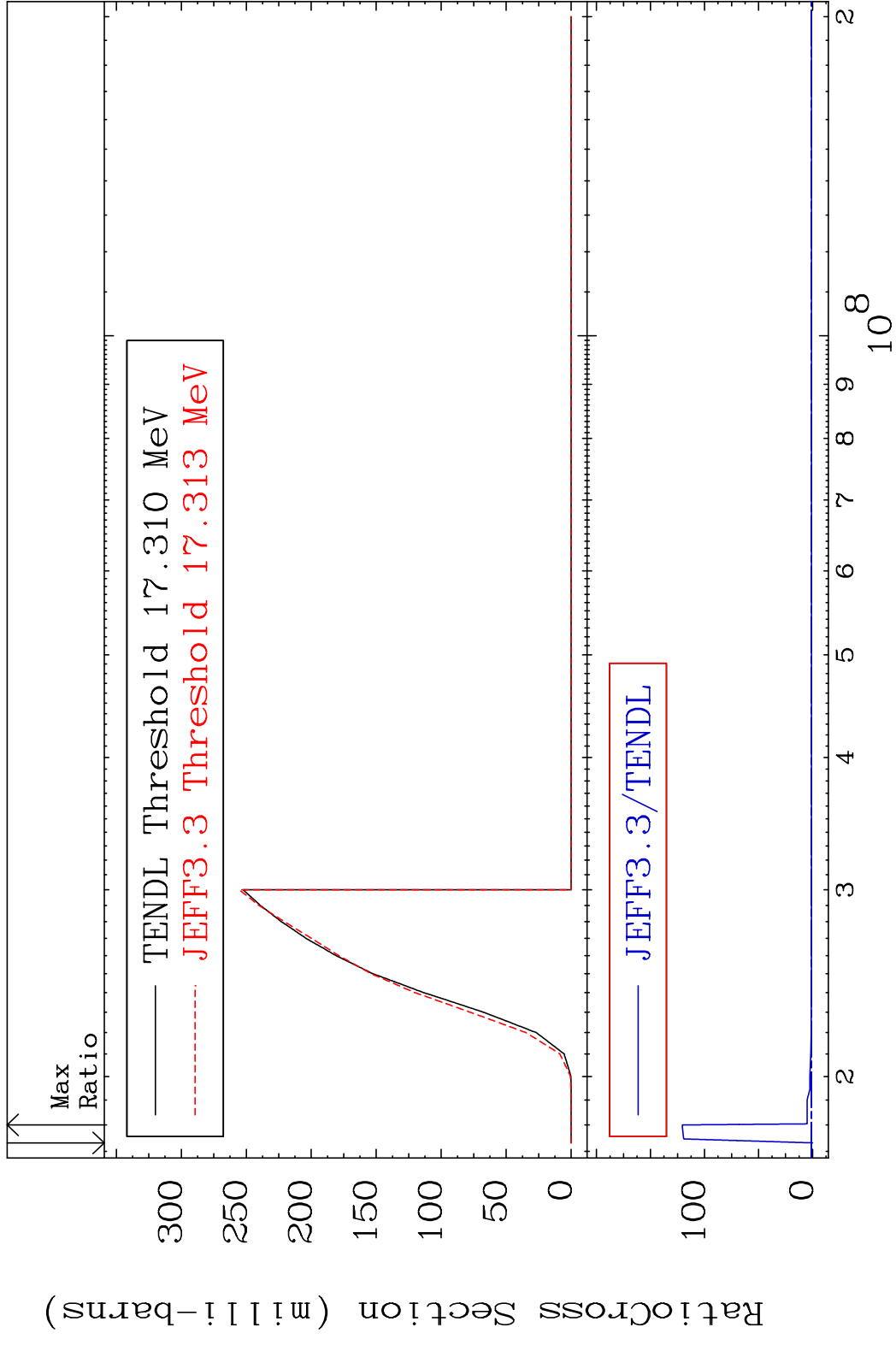
MAT 4119 (n, n') d:40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 216.1 %

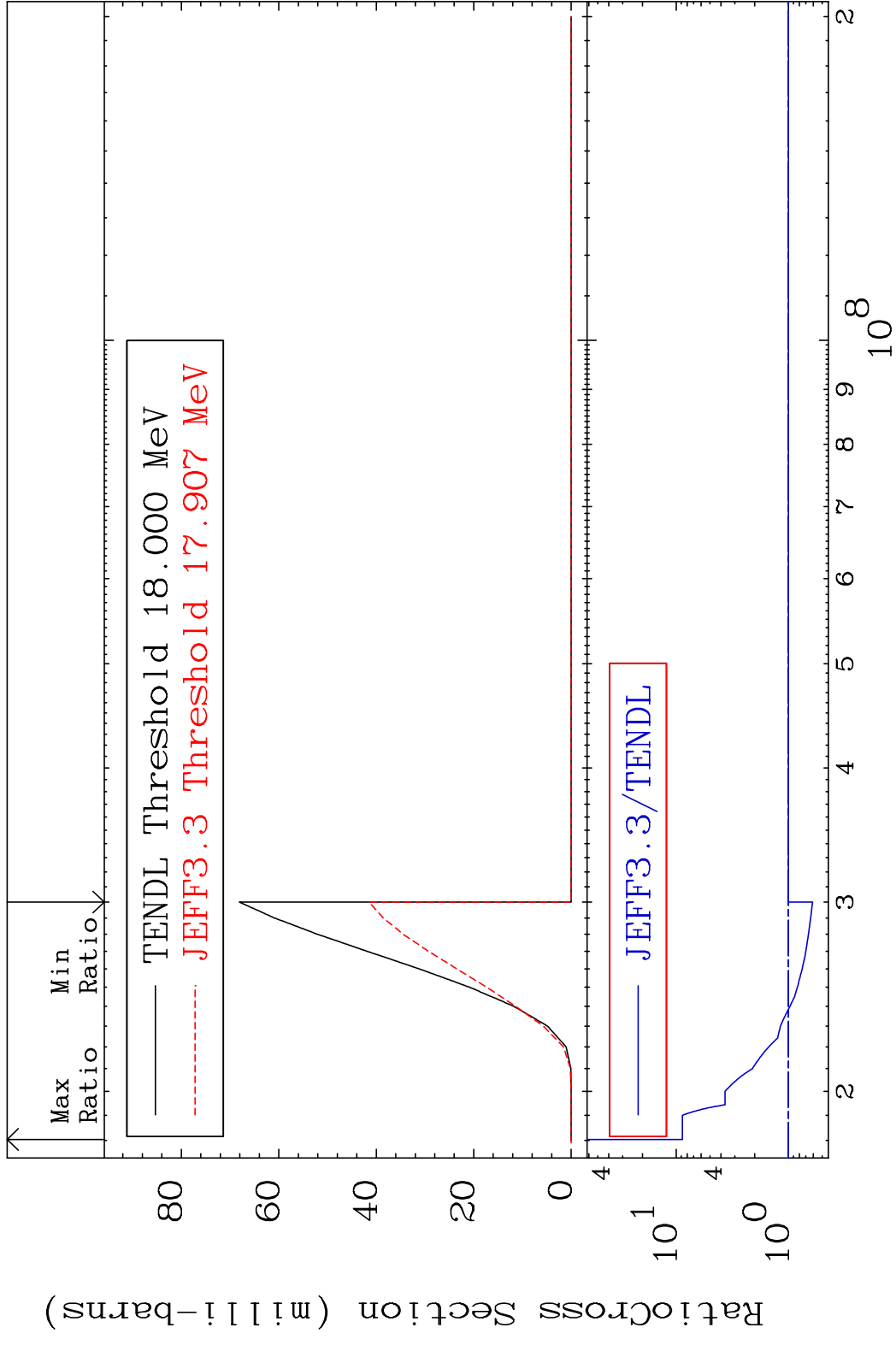


MAT 4119 (n, n') d:40-Zr-89m1 41-Nb-91
 Radionuclide Production Cross Section 36.781 d10 265.5 %

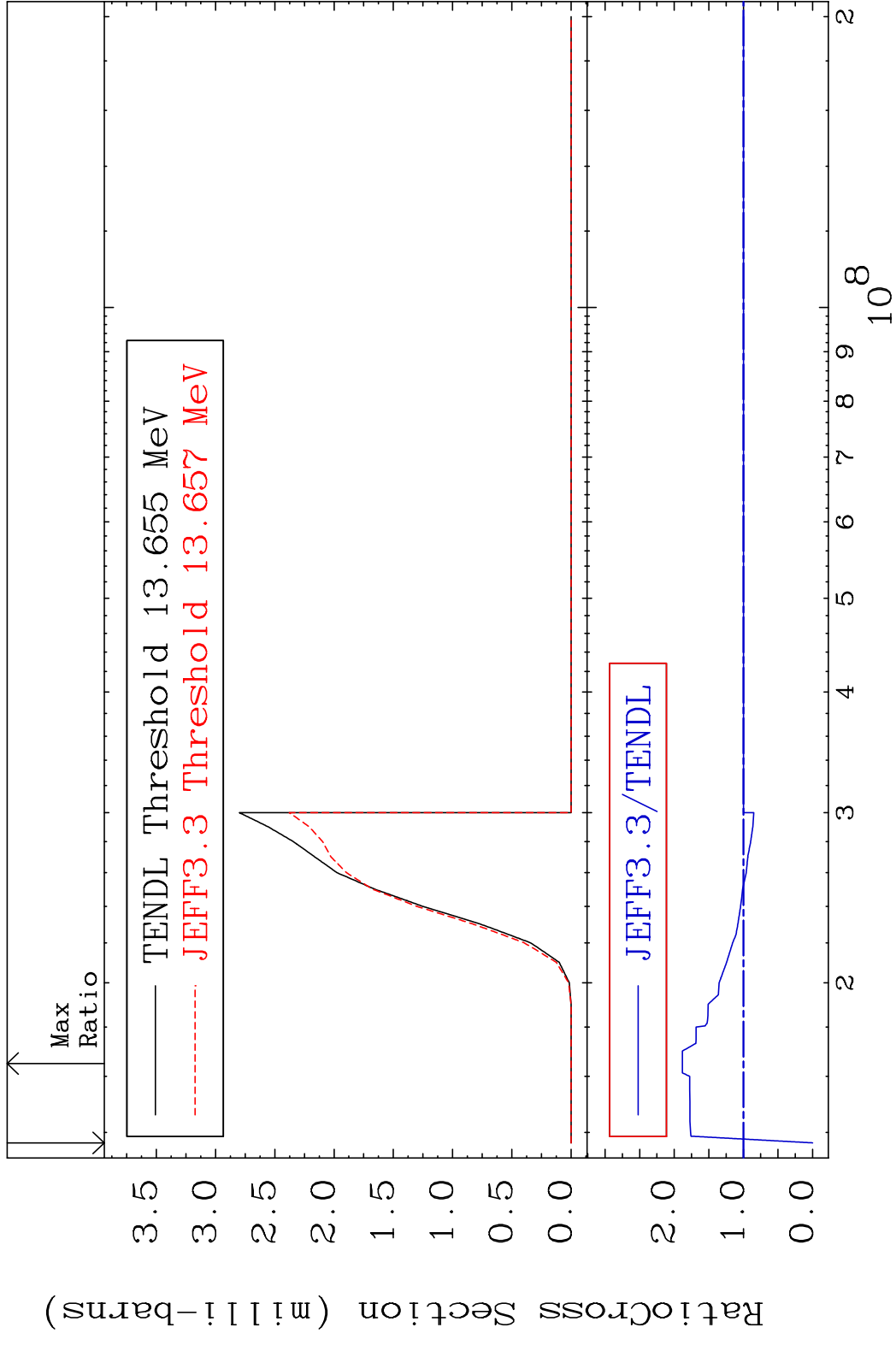


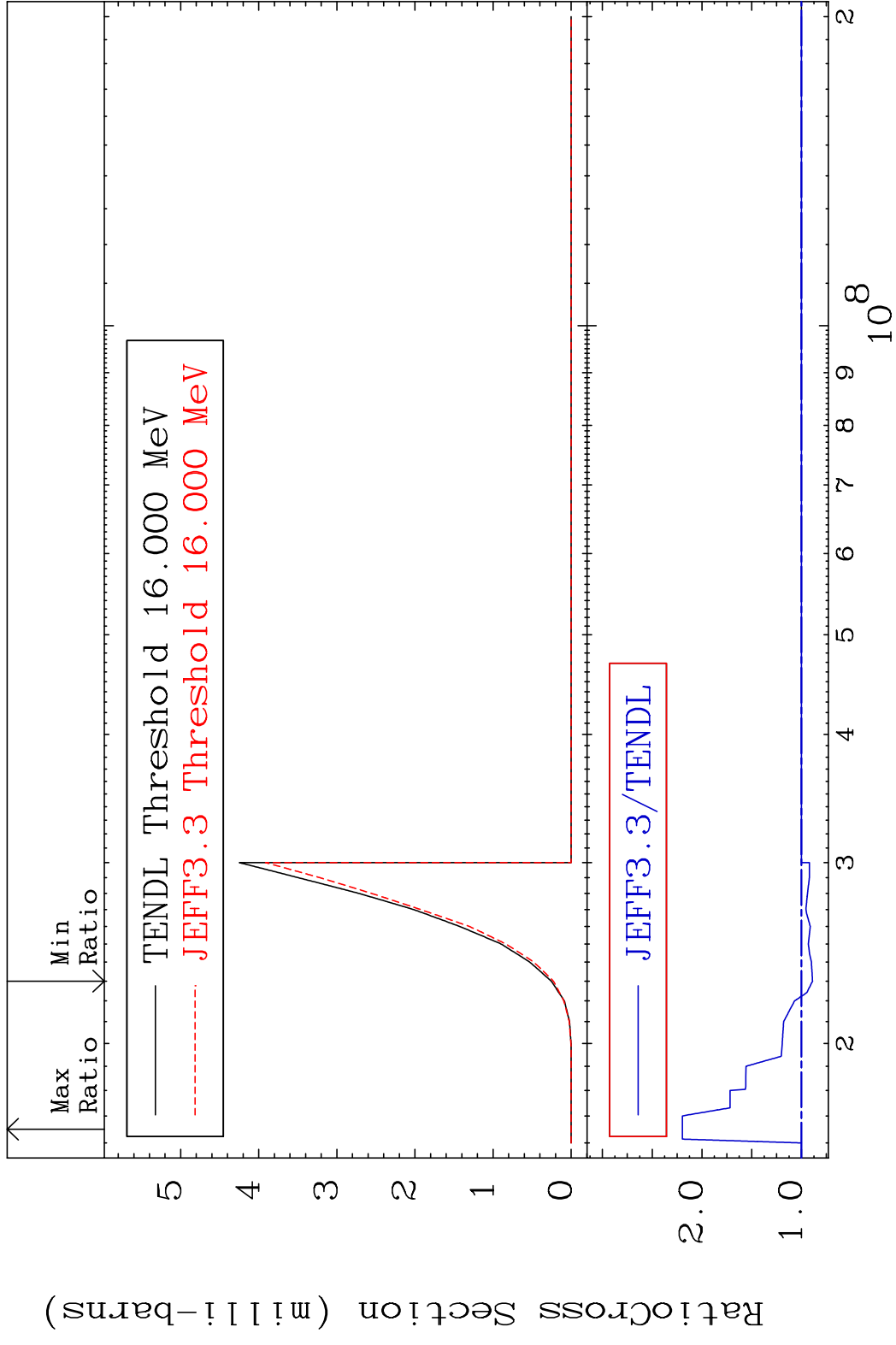
MAT 4119 (n,2n) p:40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section 1800 to 9999. %

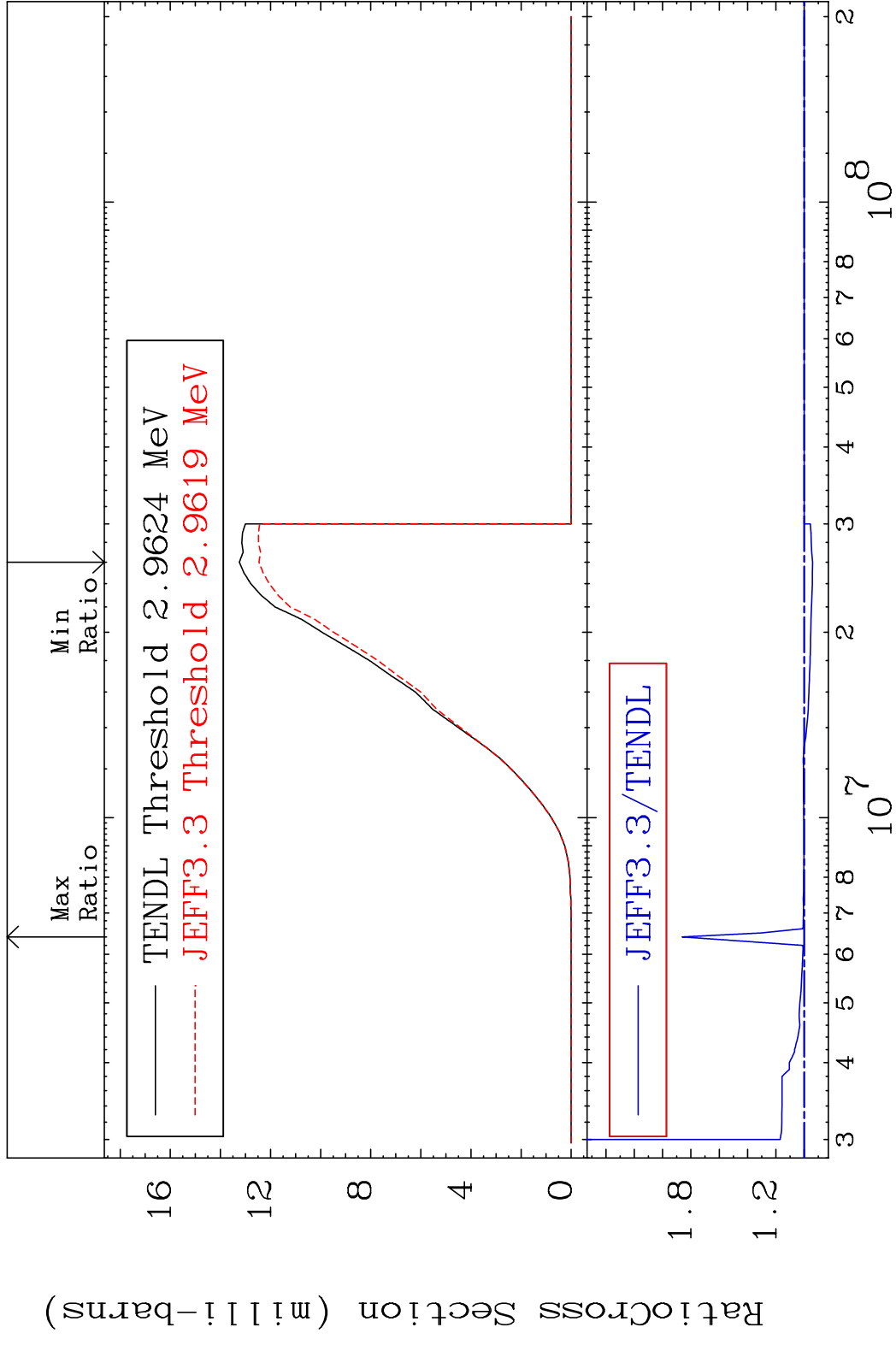




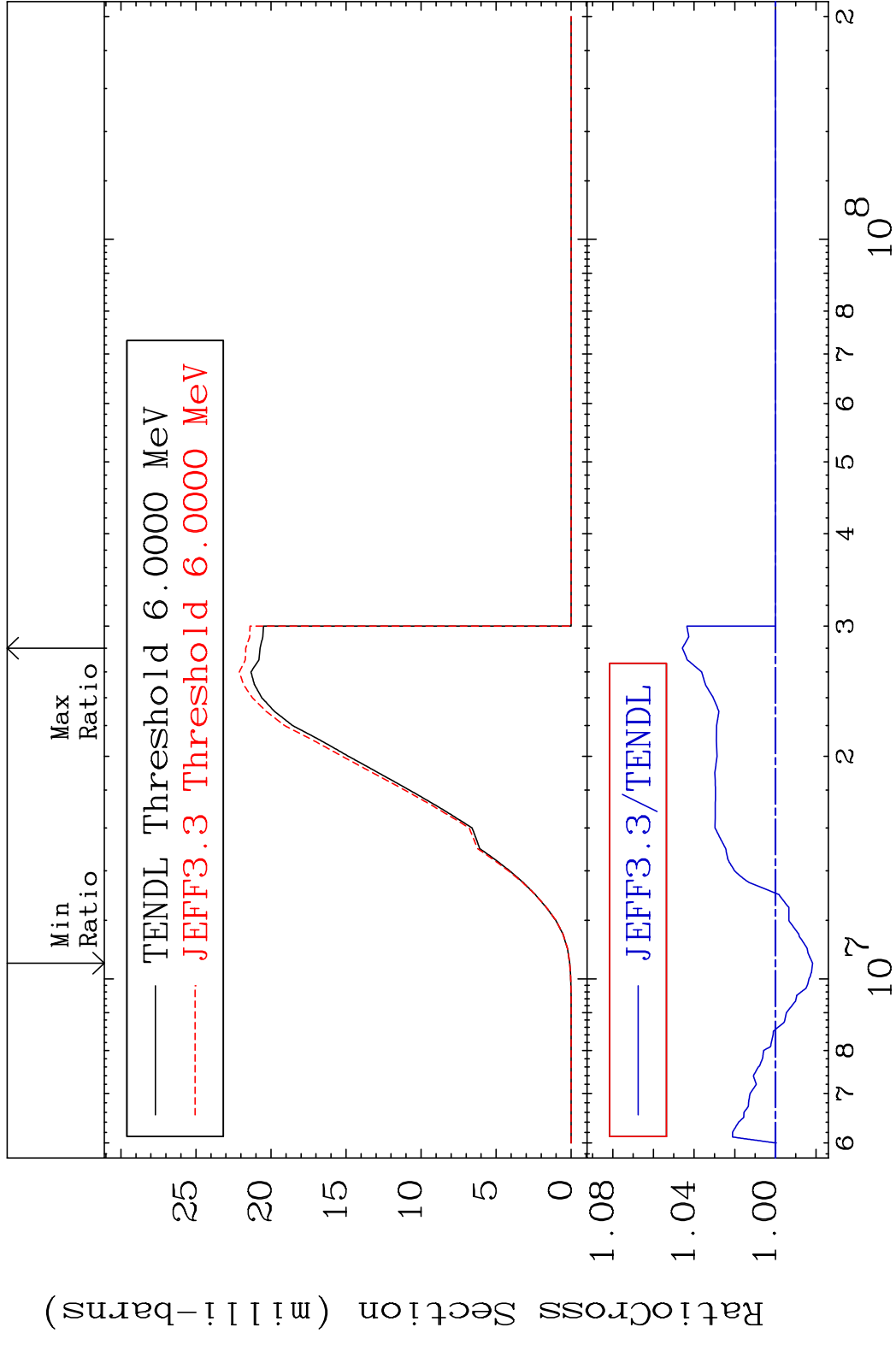
MAT 4119 (n,2n) p:39-Y -89g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 88.26 %



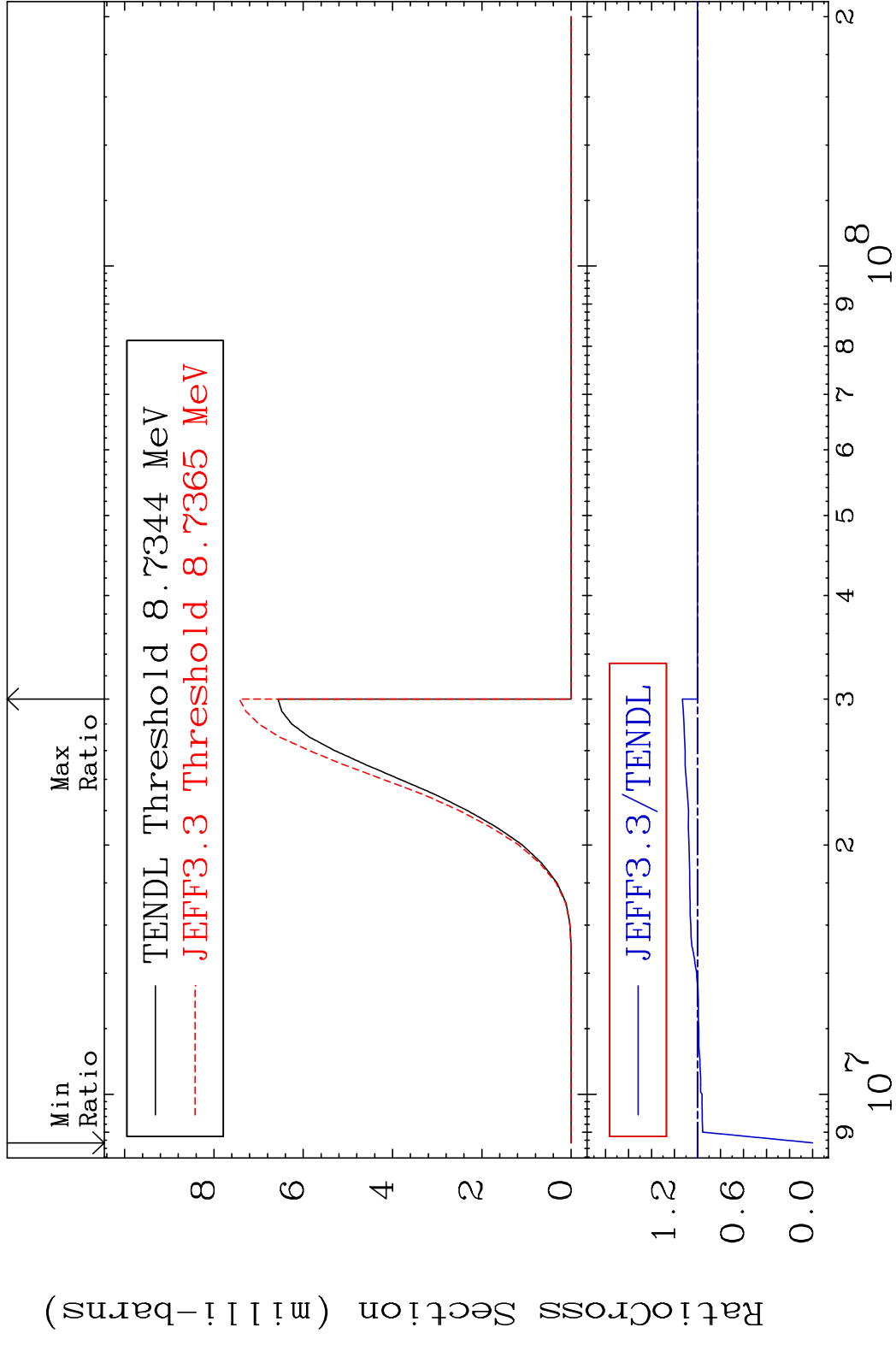




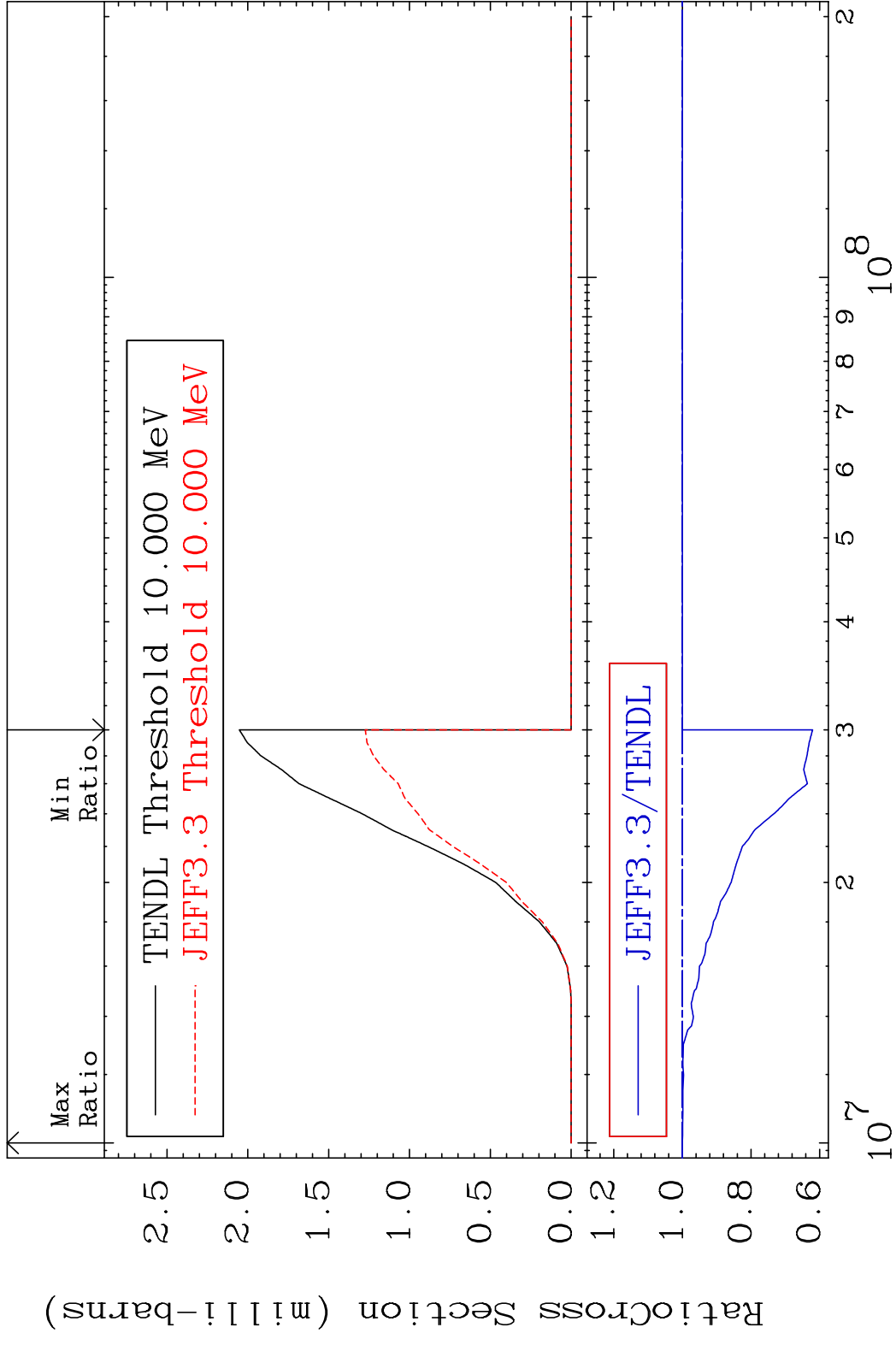
MAT 4119 (n, d) : 40-Zr-90m3 41-Nb-91
 Radionuclide Production Cross Section 1.82611e 4.579 %



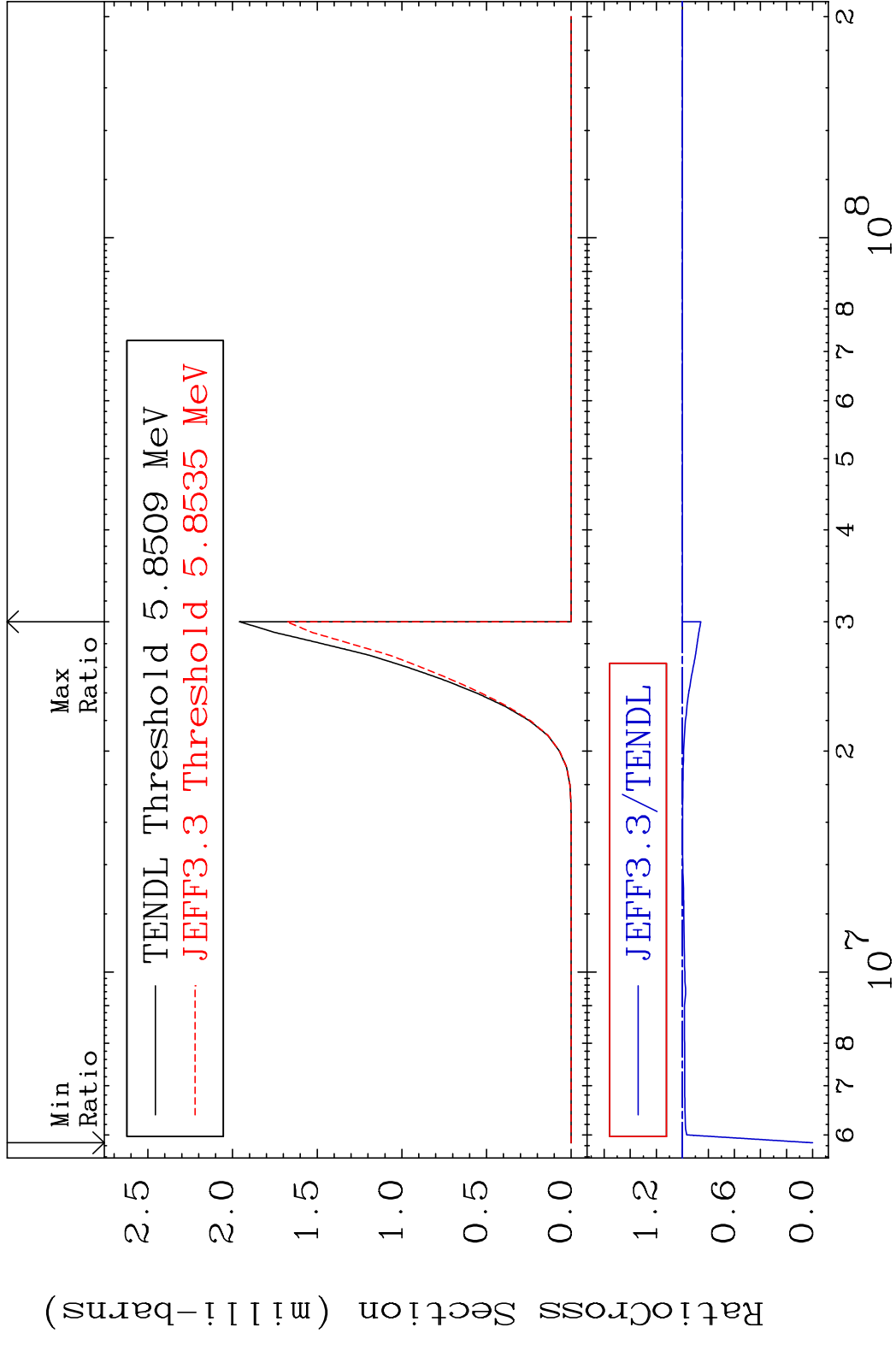
MAT 4119 (n, t): 40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section 13.19 %



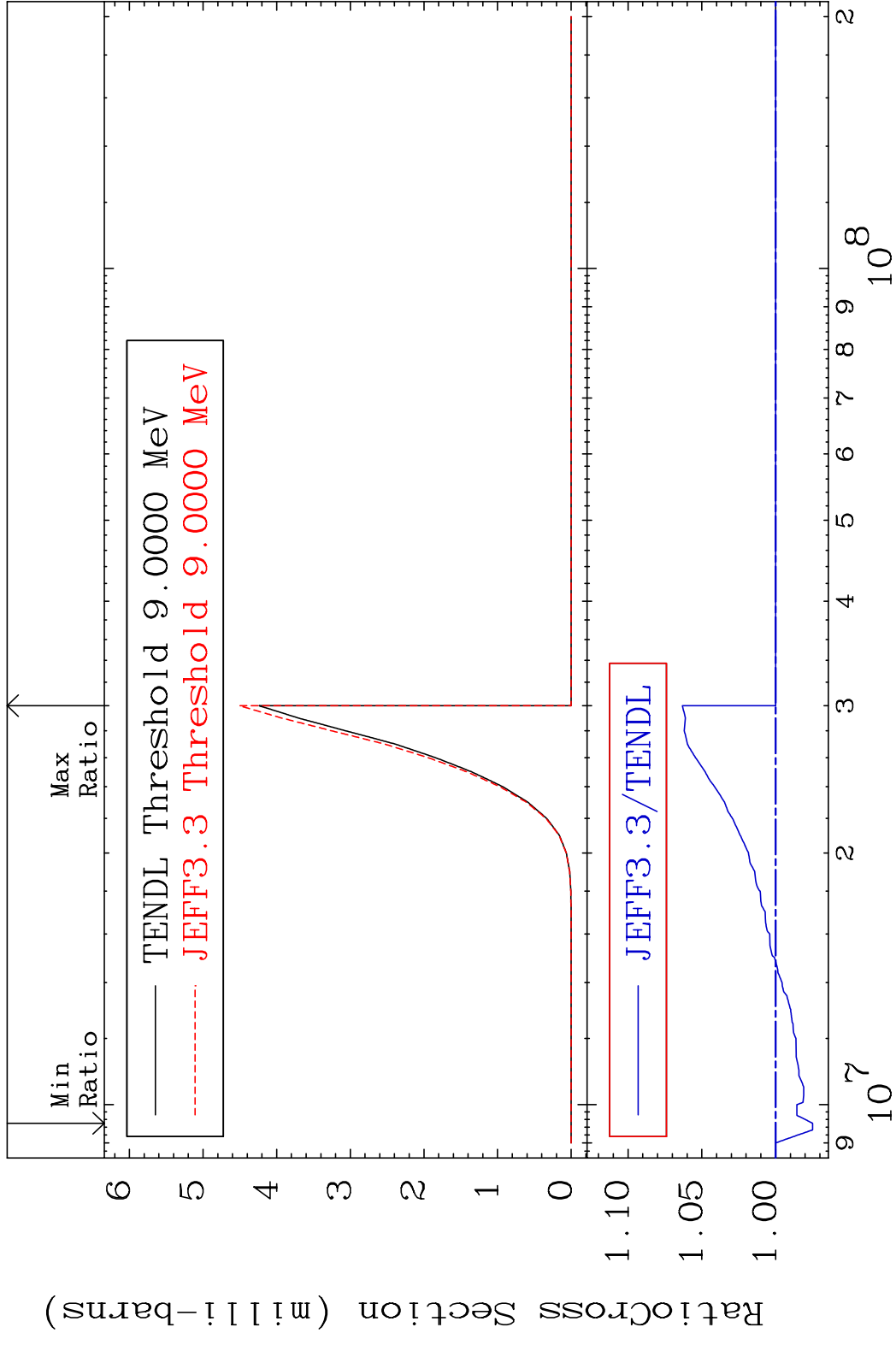
MAT 4119 (n, t): 40-Zr-89m1 41-Nb-91
 Radionuclide Production Cross Section 37.95 dth 0.000 %



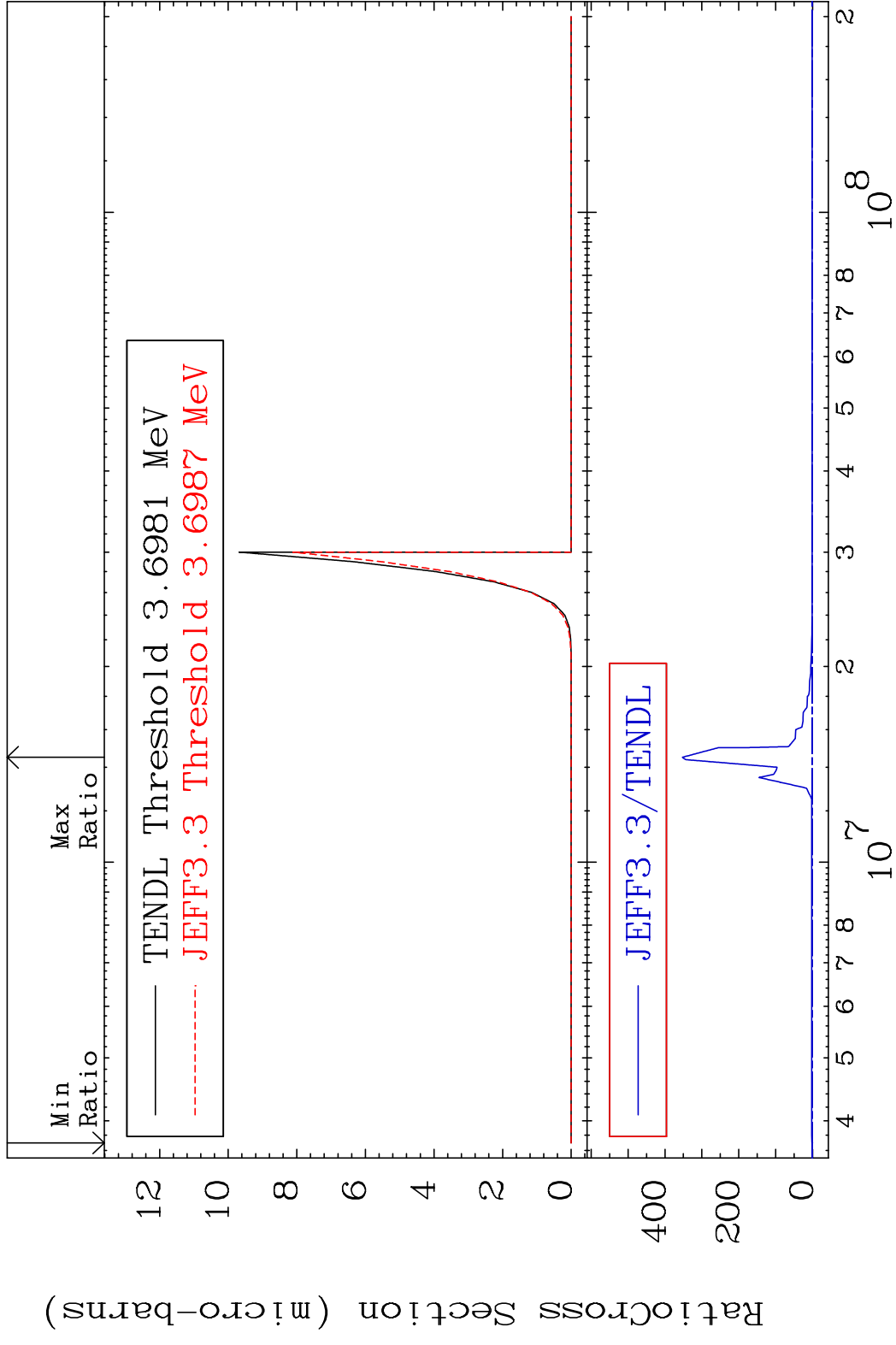
85 Incident Energy (eV) 41-Nb-91

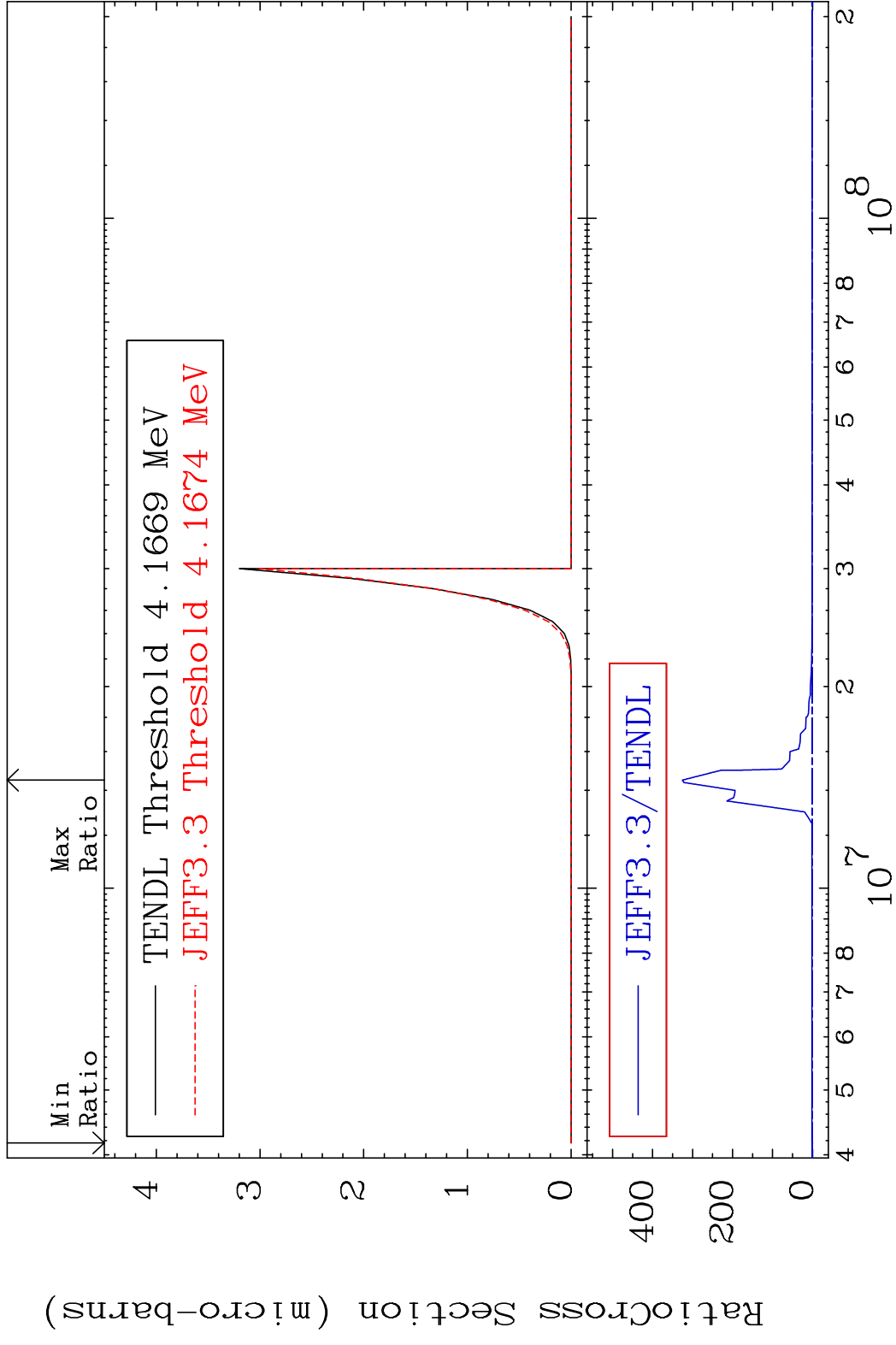


MAT 4119 (n, He-3):39-Y -89m1 41-Nb-91
 Radionuclide Production Cross Section 6.320 %

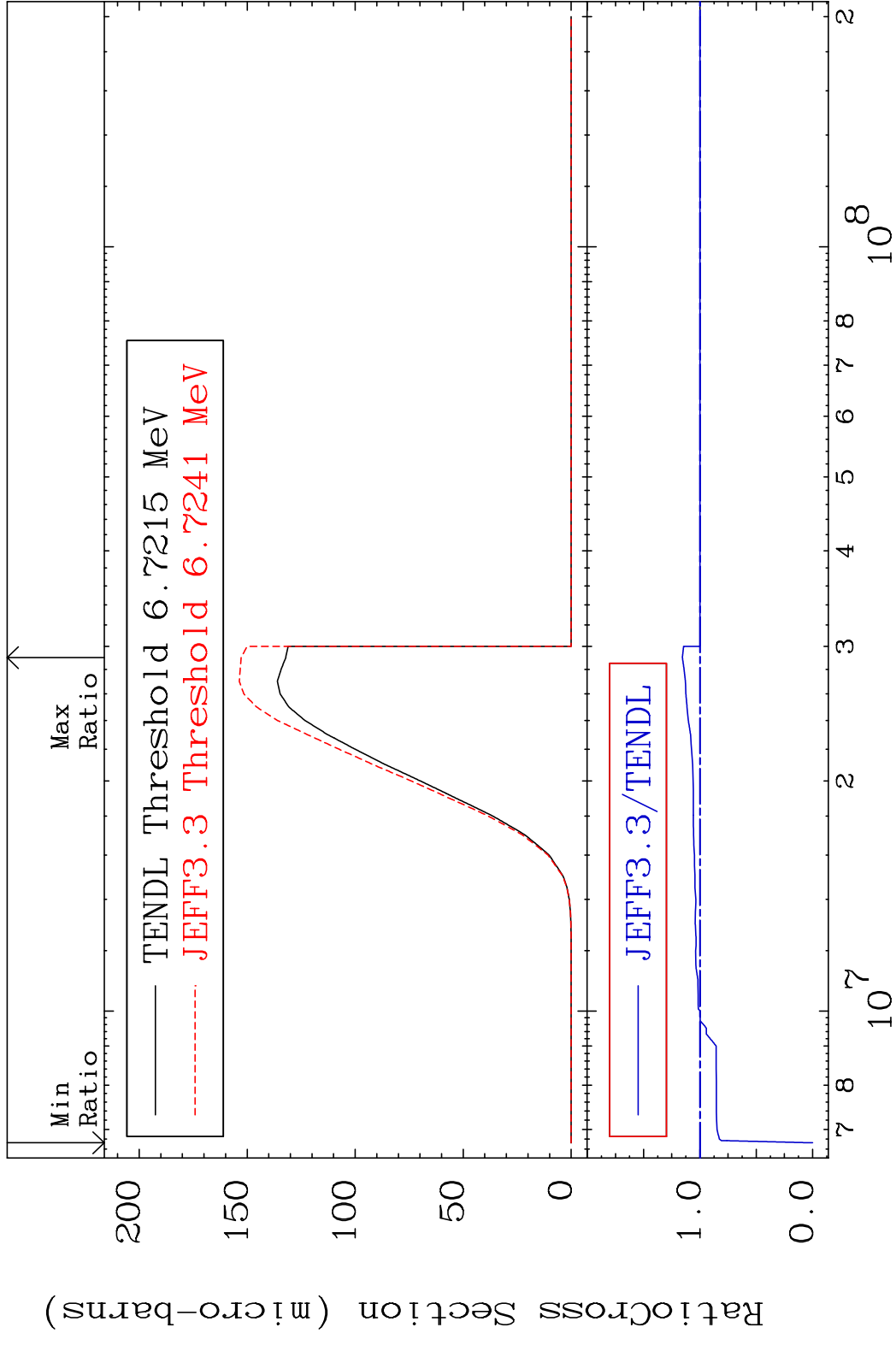


MAT 4119 (n,2α):37-Rb-84g 41-Nb-91
 Radionuclide Production Cross Section (%) 9999. %



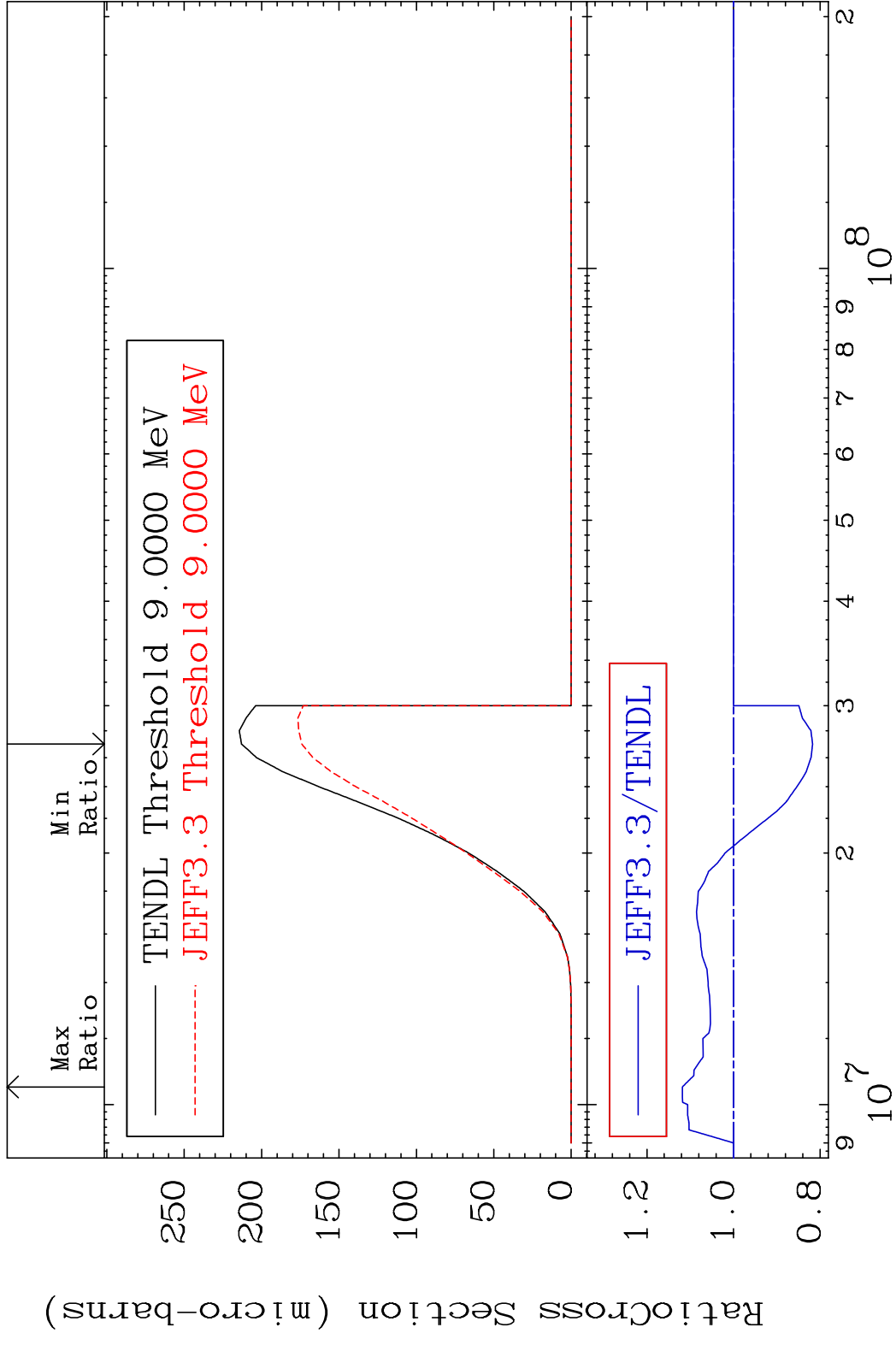


MAT 4119 (n,2p):39-Y-90g 41-Nb-91
 Radionuclide Production Cross Section 15.61 %



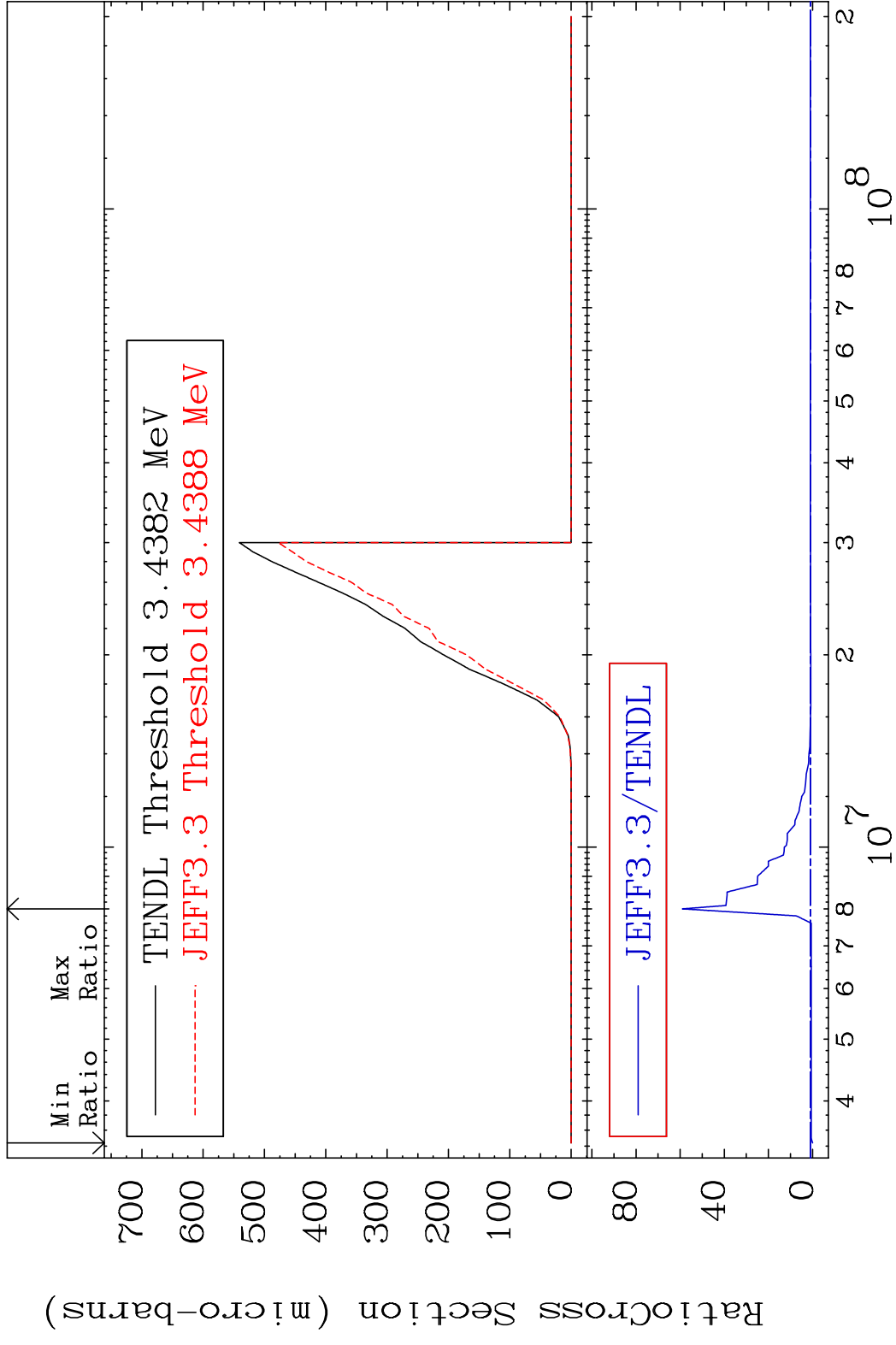
90 41-Nb-91

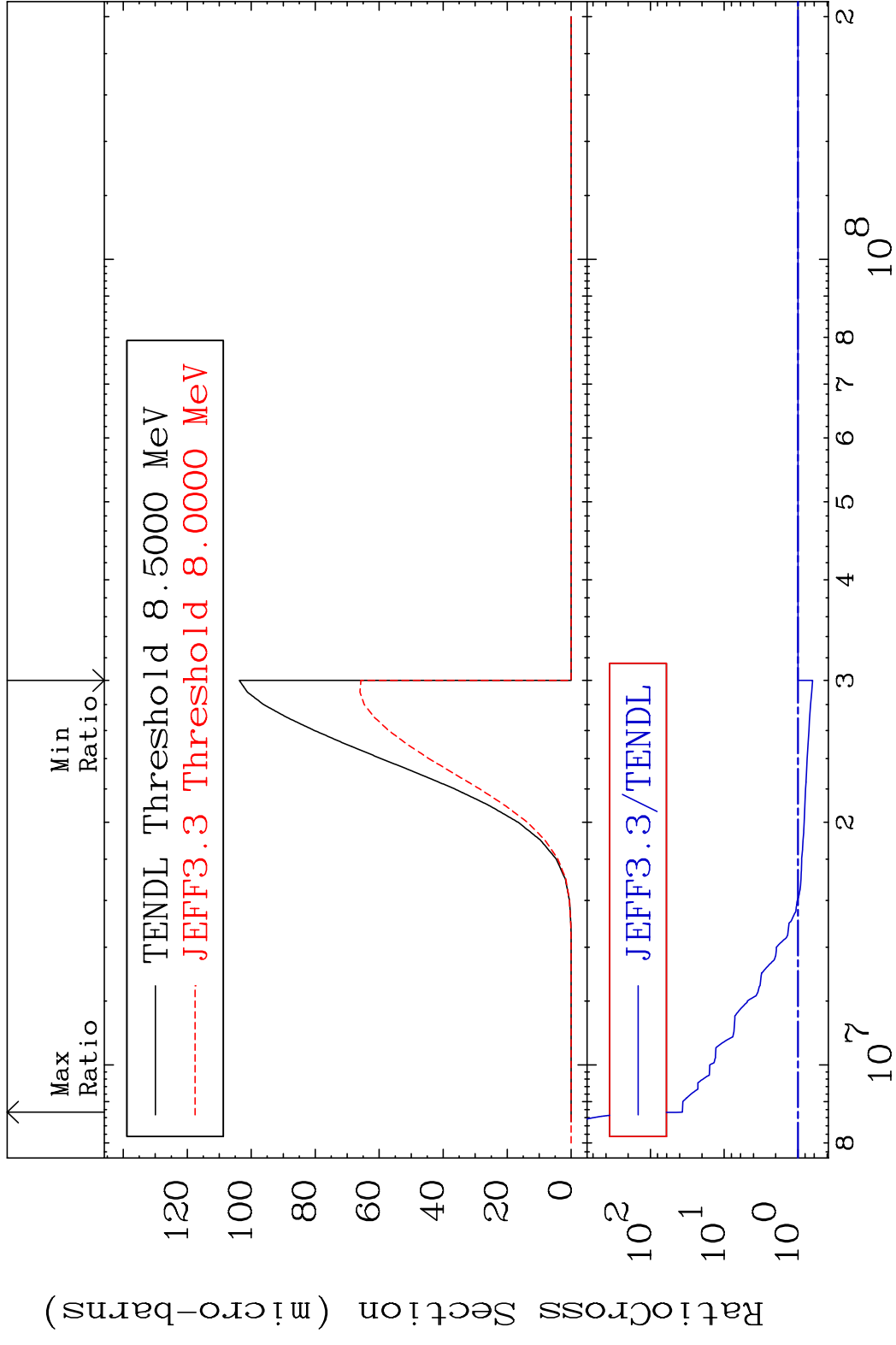
MAT 4119 (n,2p):39-Y -90m2 41-Nb-91
 Radionuclide Production Cross Section 18.27 mb 11.82 %



91 Incident Energy (eV) 41-Nb-91

MAT 4119 (n, p) α :38-Sr-87g 41-Nb-91
 Radionuclide Production Cross Section to 5800. %





MAT 4119 (n,p) d:39-Y -89g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 80.27 %

