

Program Complot
(Version 2021-1)

by

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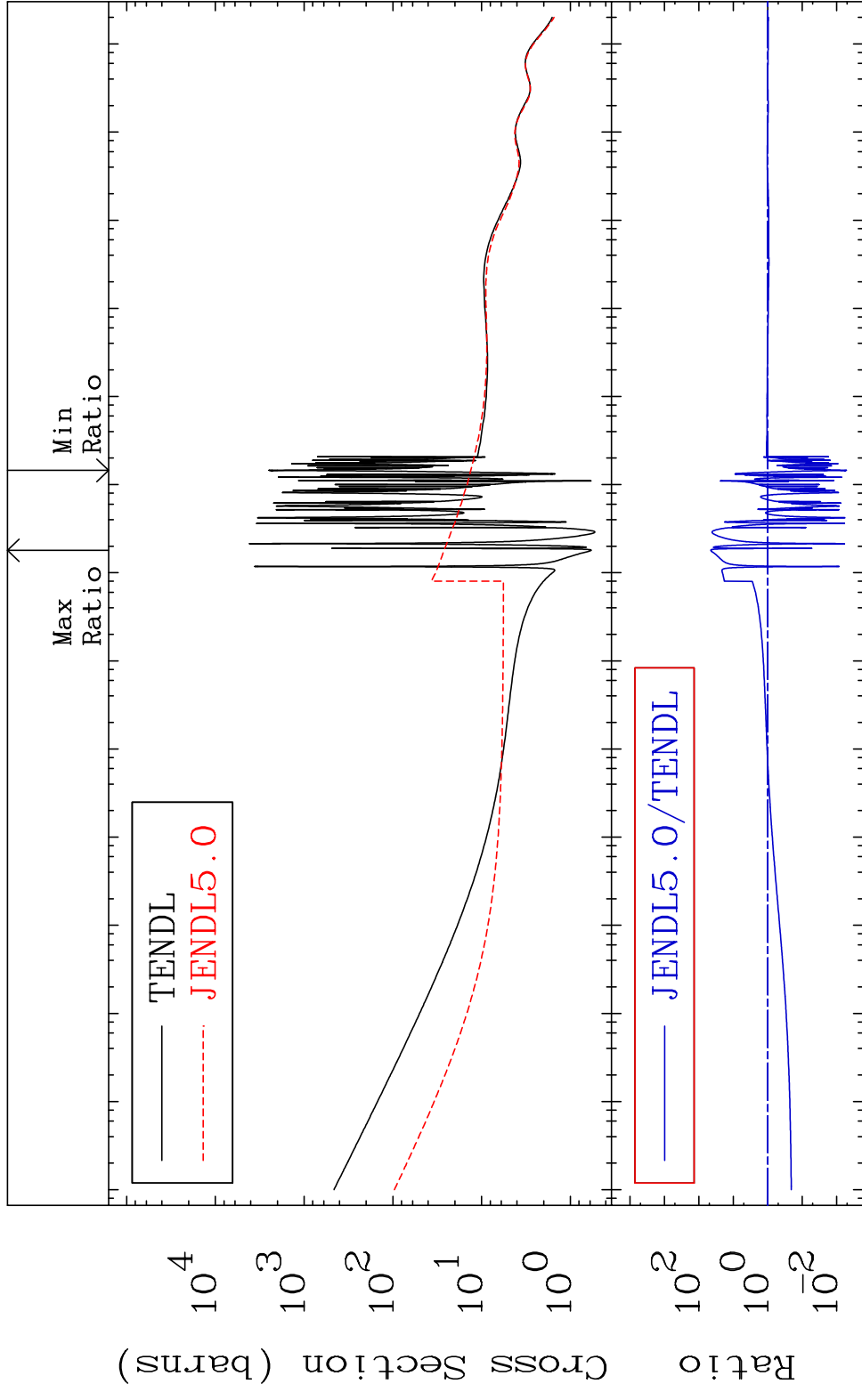
Press Mouse Button to Start

MAT 4119

41-Nb-91

Total

Cross Section -99.47 To 4443. %



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

1

Incident Energy (eV)

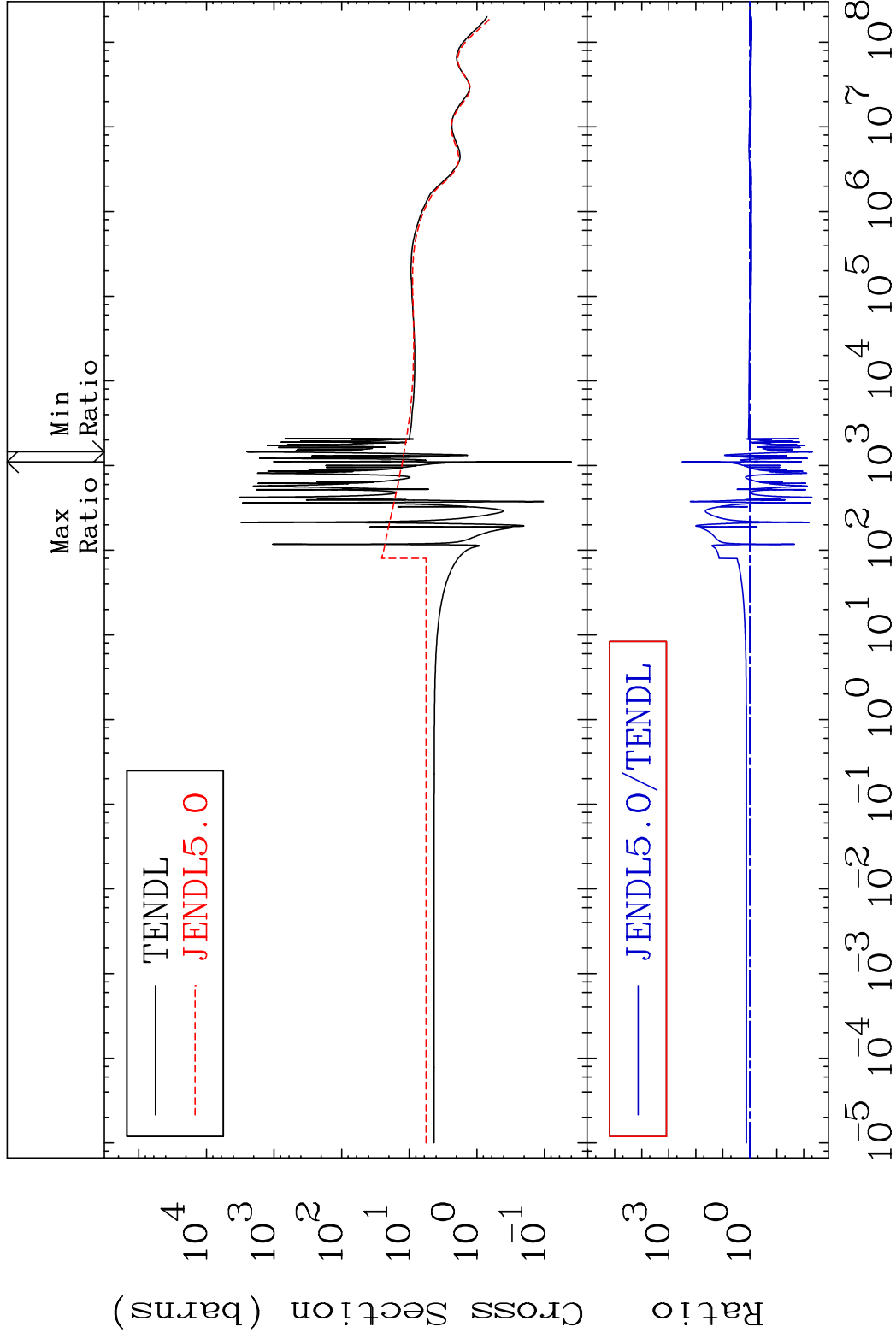
41-Nb-91

MAT 4119

Elastic

41-Nb-91

Cross Section -99.52 To 9999. %

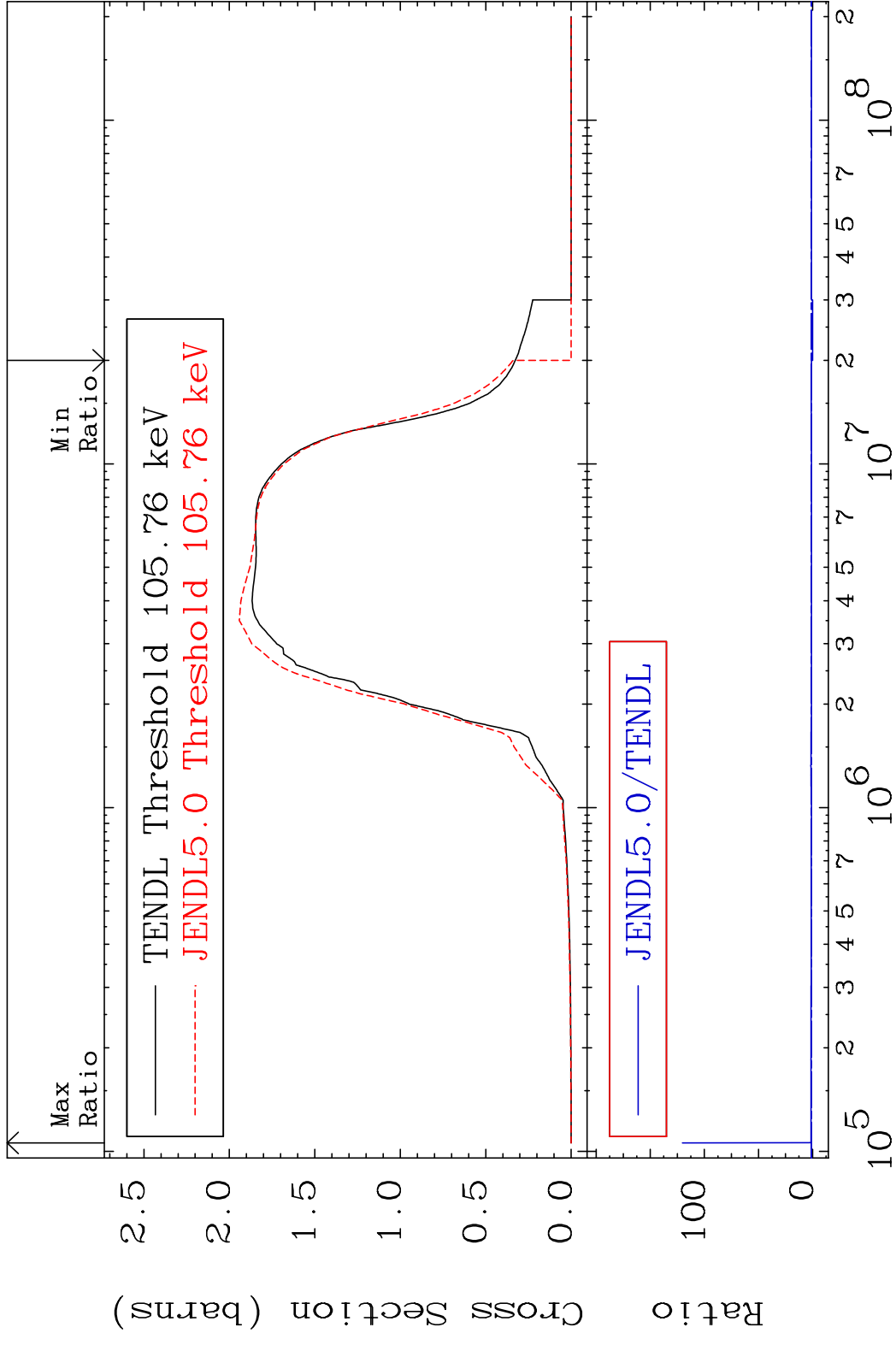


2

Incident Energy (eV)

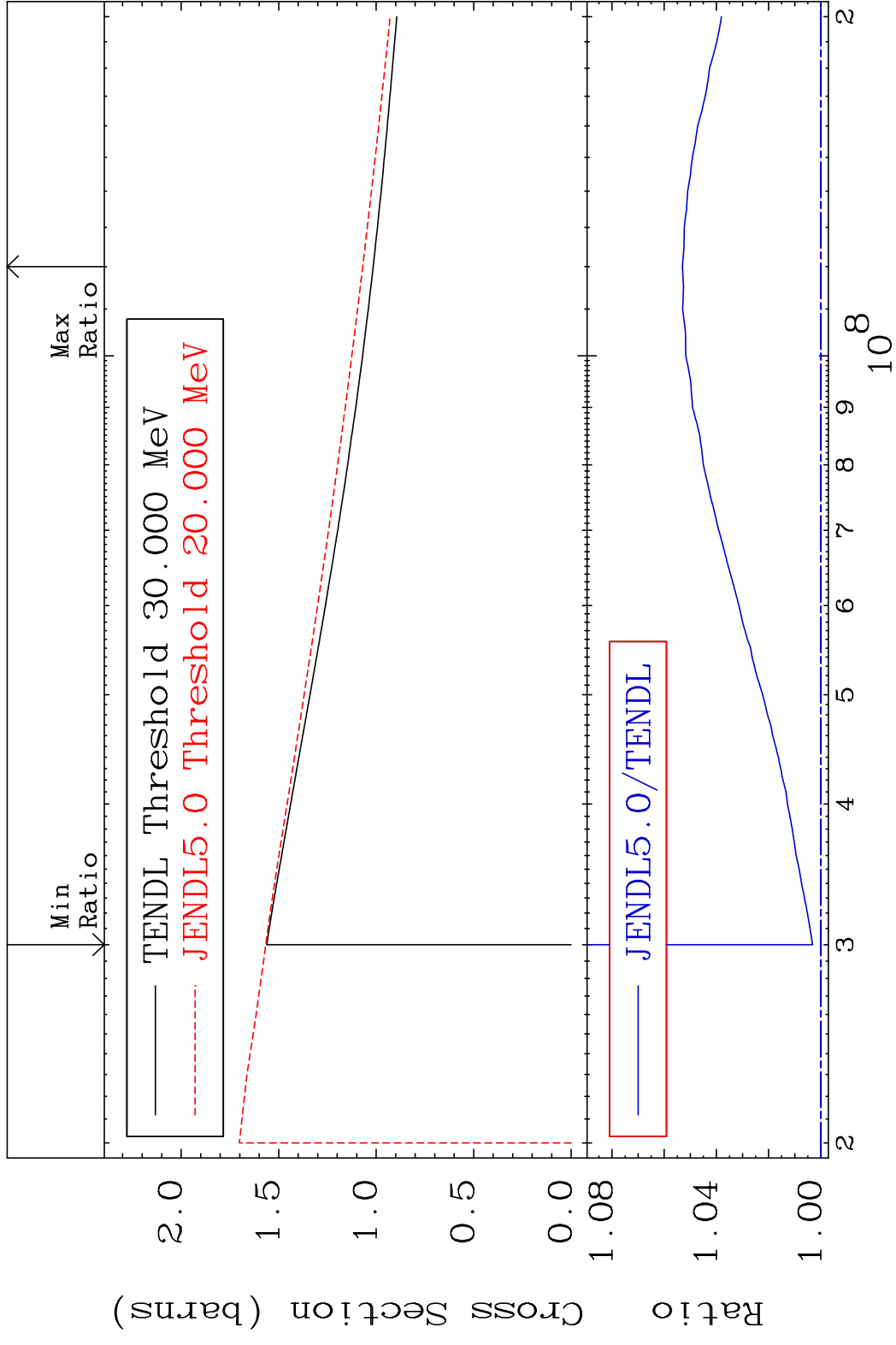
41-Nb-91

MAT 4119 Inelastic Cross Section -100.0 To 9999. % 41-Nb-91



3 Incident Energy (eV) 41-Nb-91

MAT 4119 (n, remainder) 41-Nb-91
 Cross Section 0.318 To 5.306 %



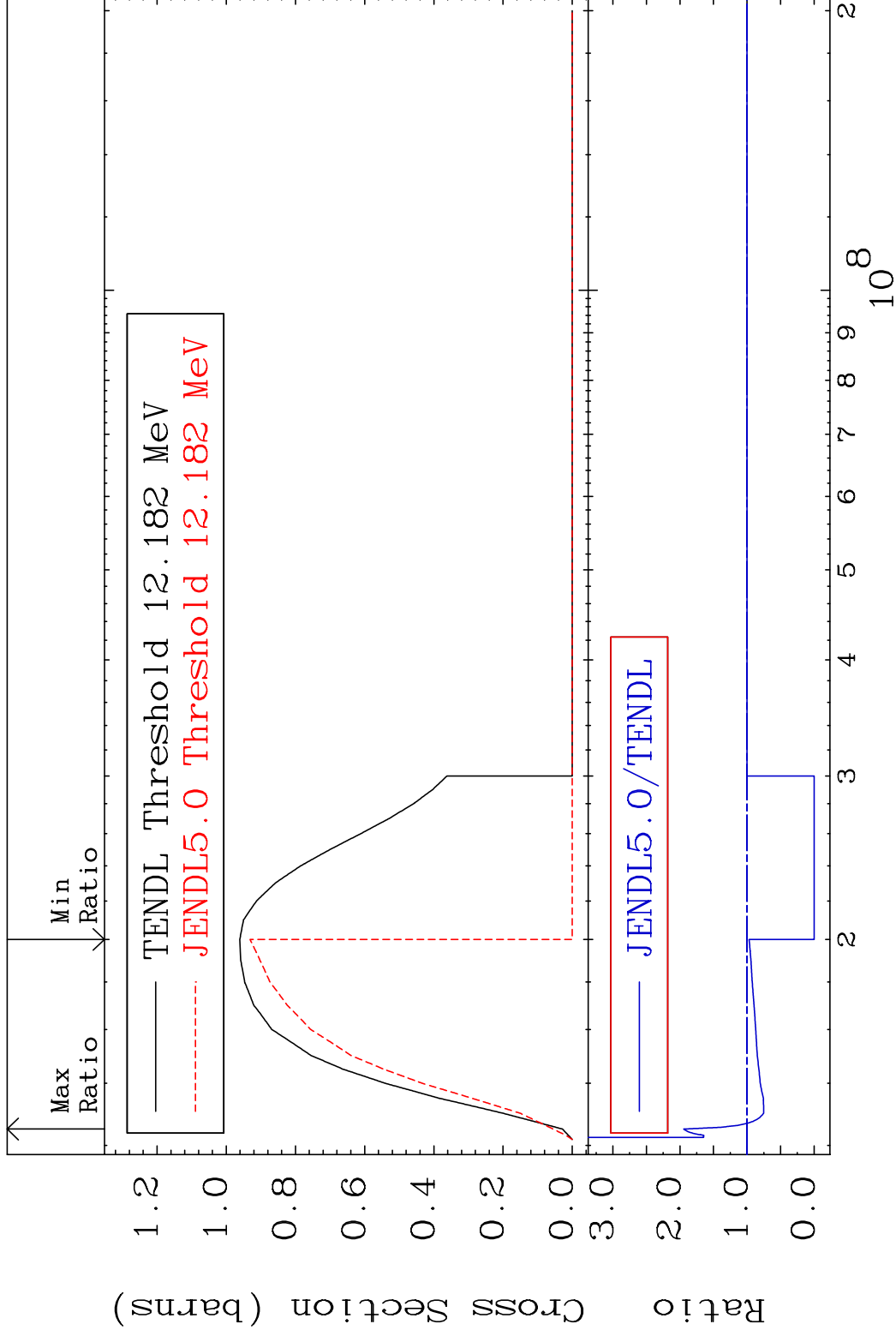
4 Incident Energy (eV) 41-Nb-91

MAT 4119

(n,2n)

41-Nb-91

Cross Section -100.0 To 94.48 %

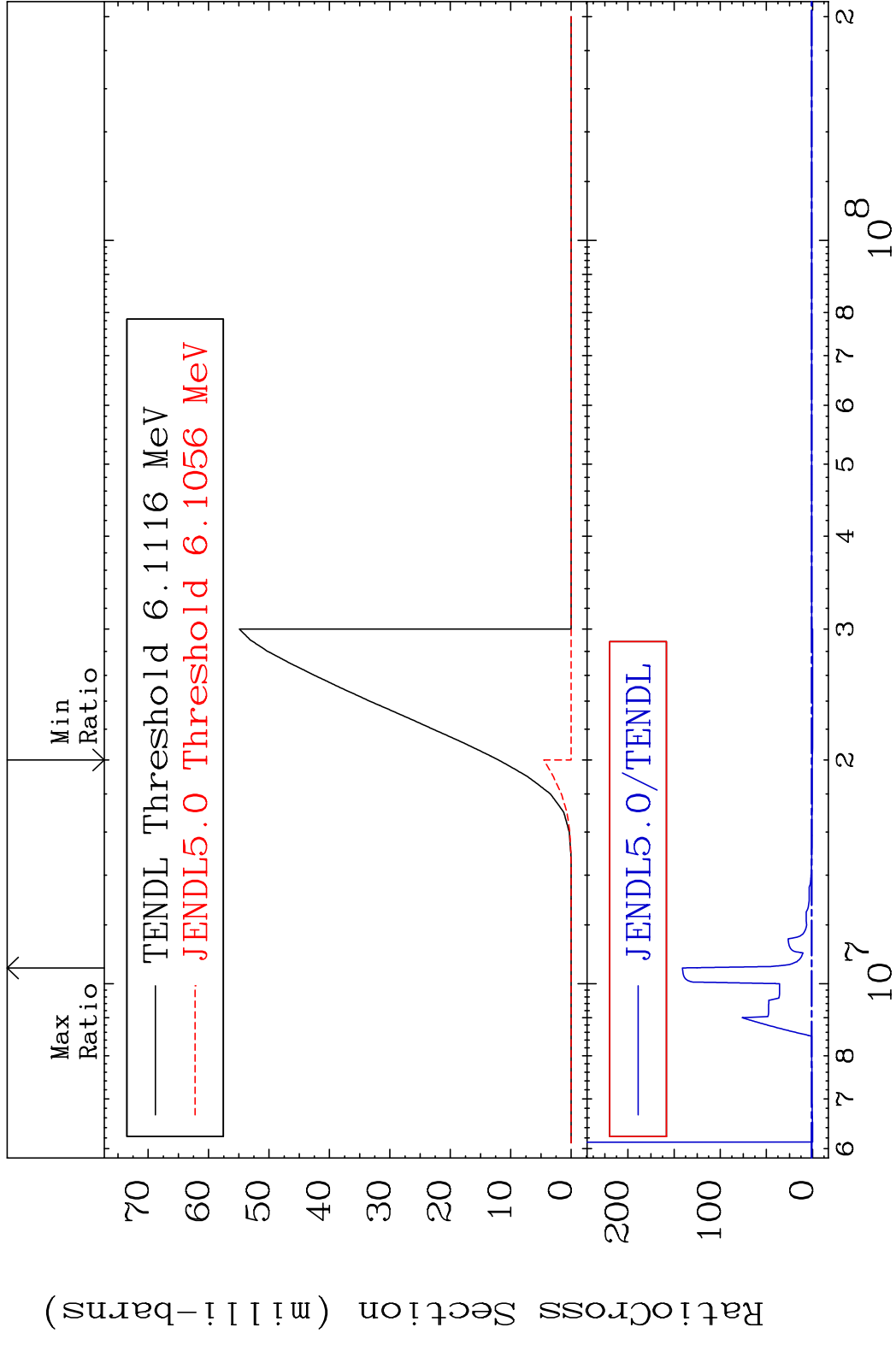


5

Incident Energy (eV)

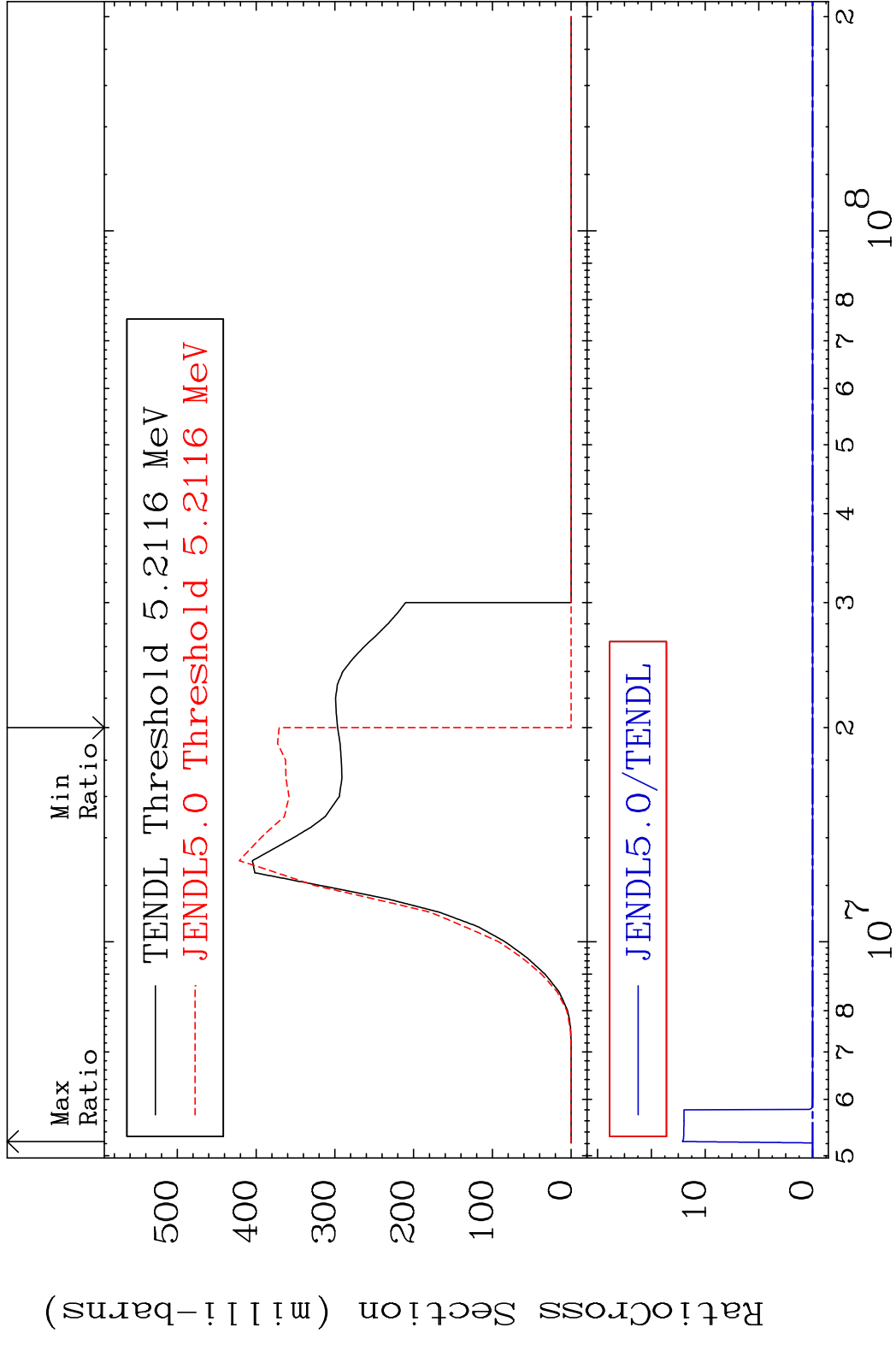
41-Nb-91

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

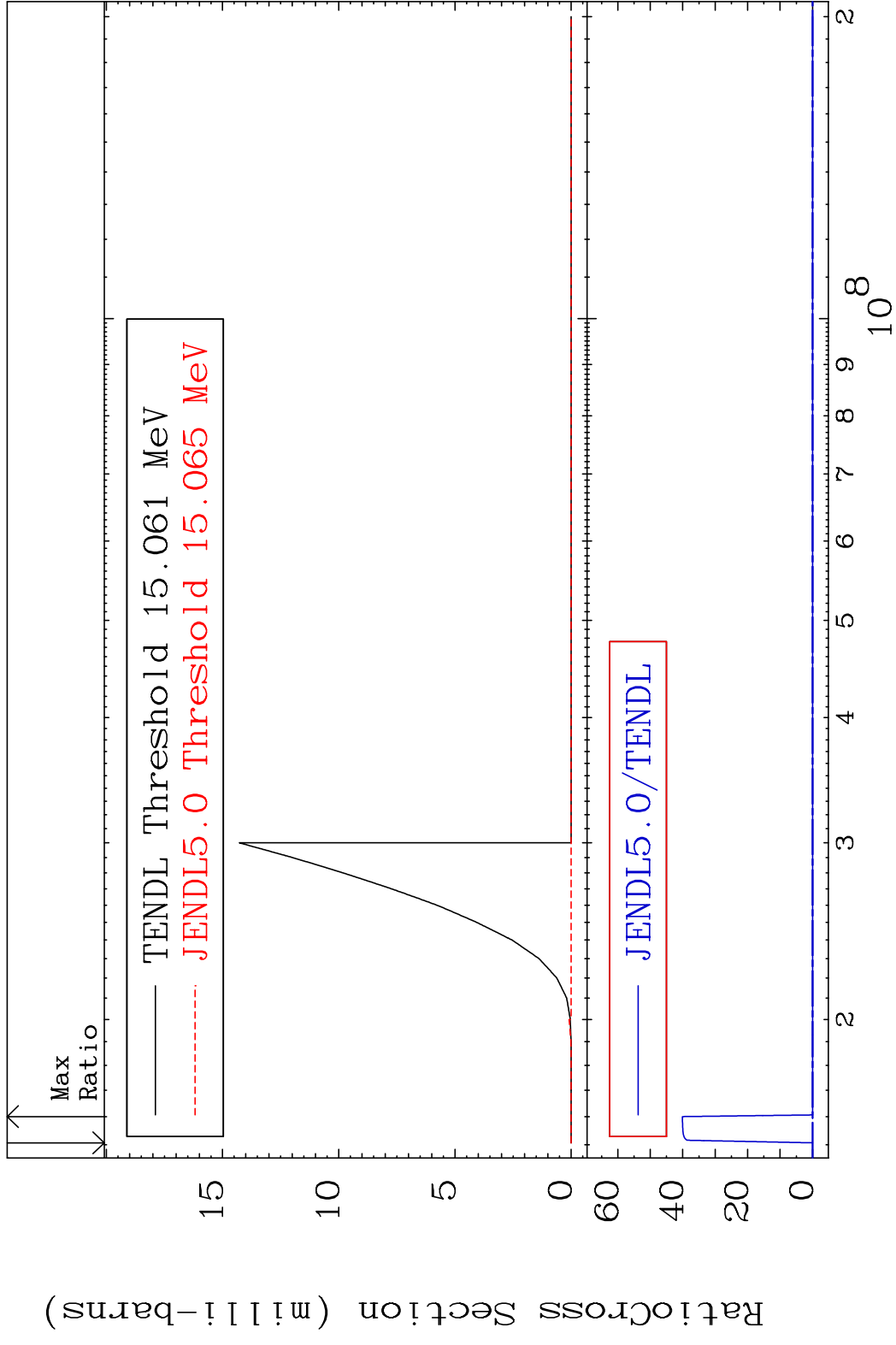


6 Incident Energy (eV) 41-Nb-91

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



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

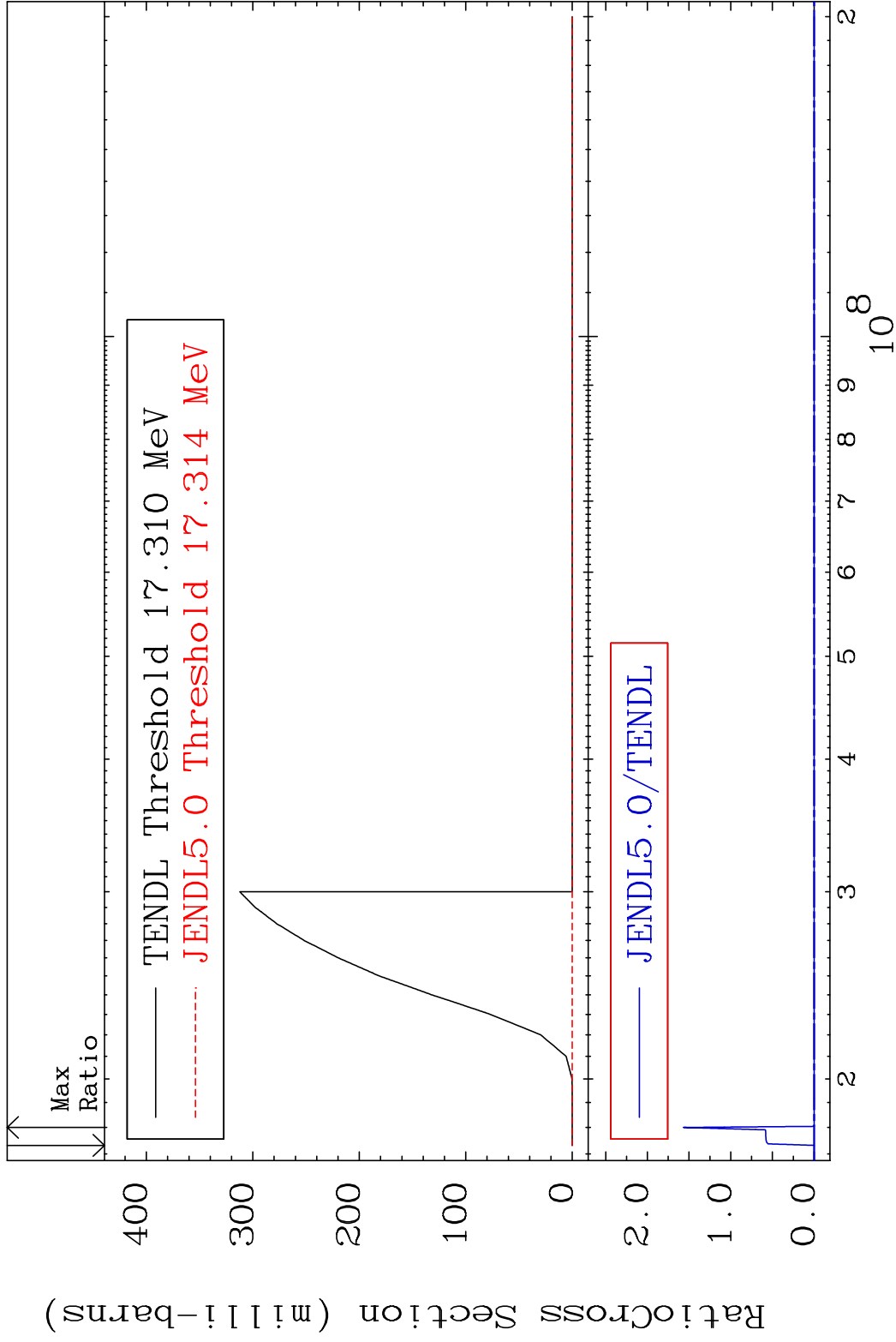


MAT 4119

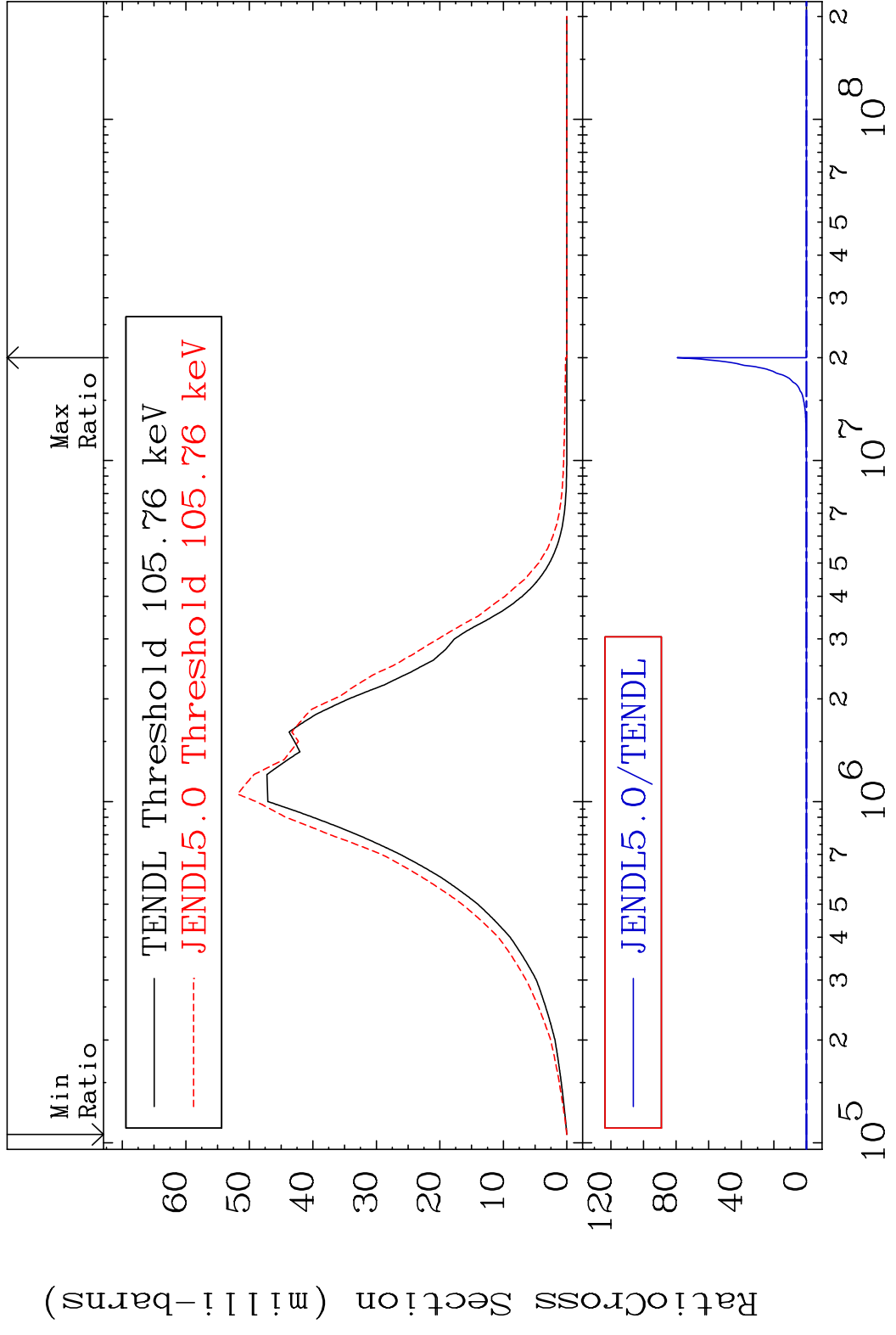
(n,2n) p

41-Nb-91

Cross Section -100.0 To 9999. %

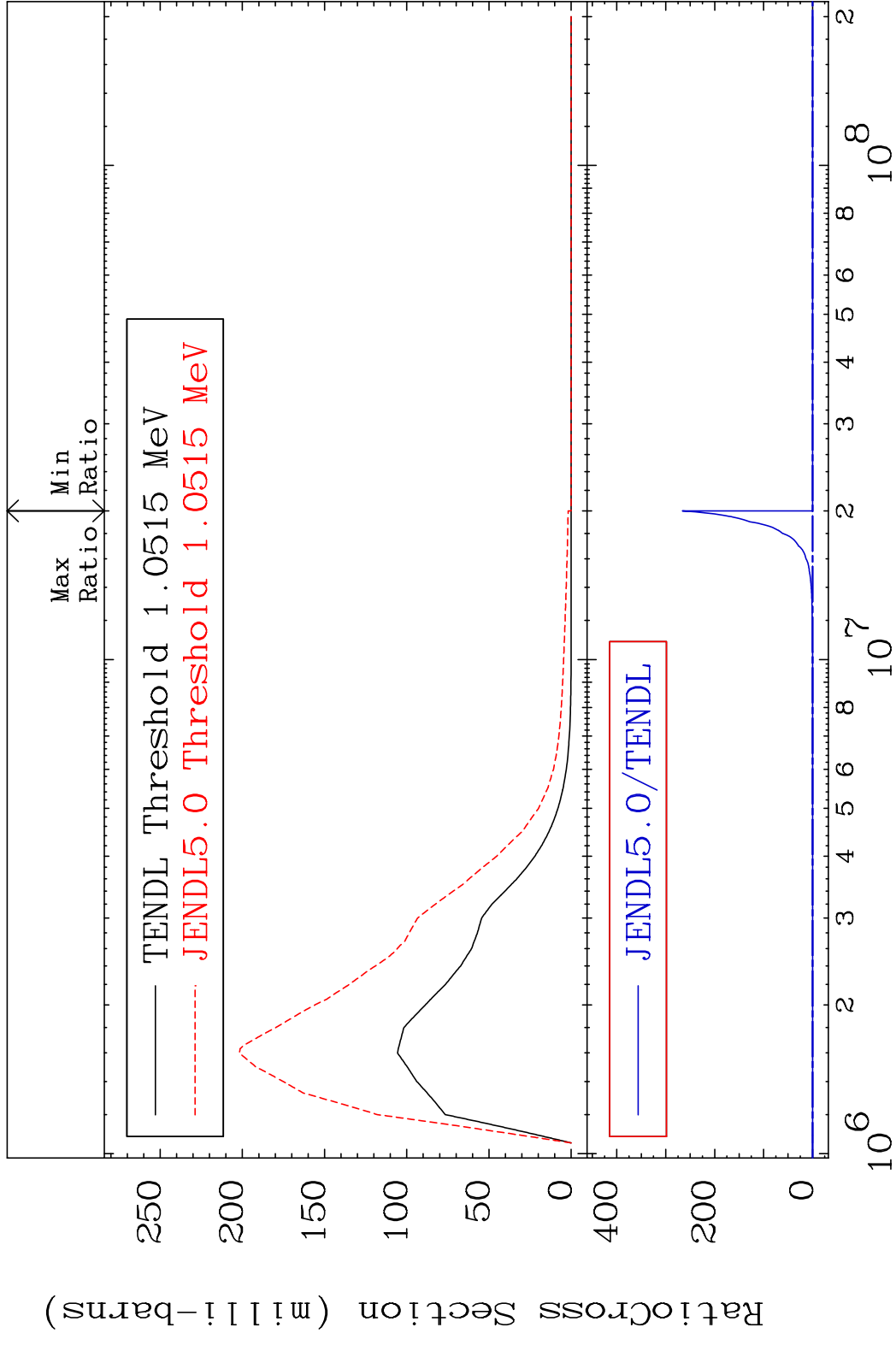


MAT 4119 MT= 51 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %



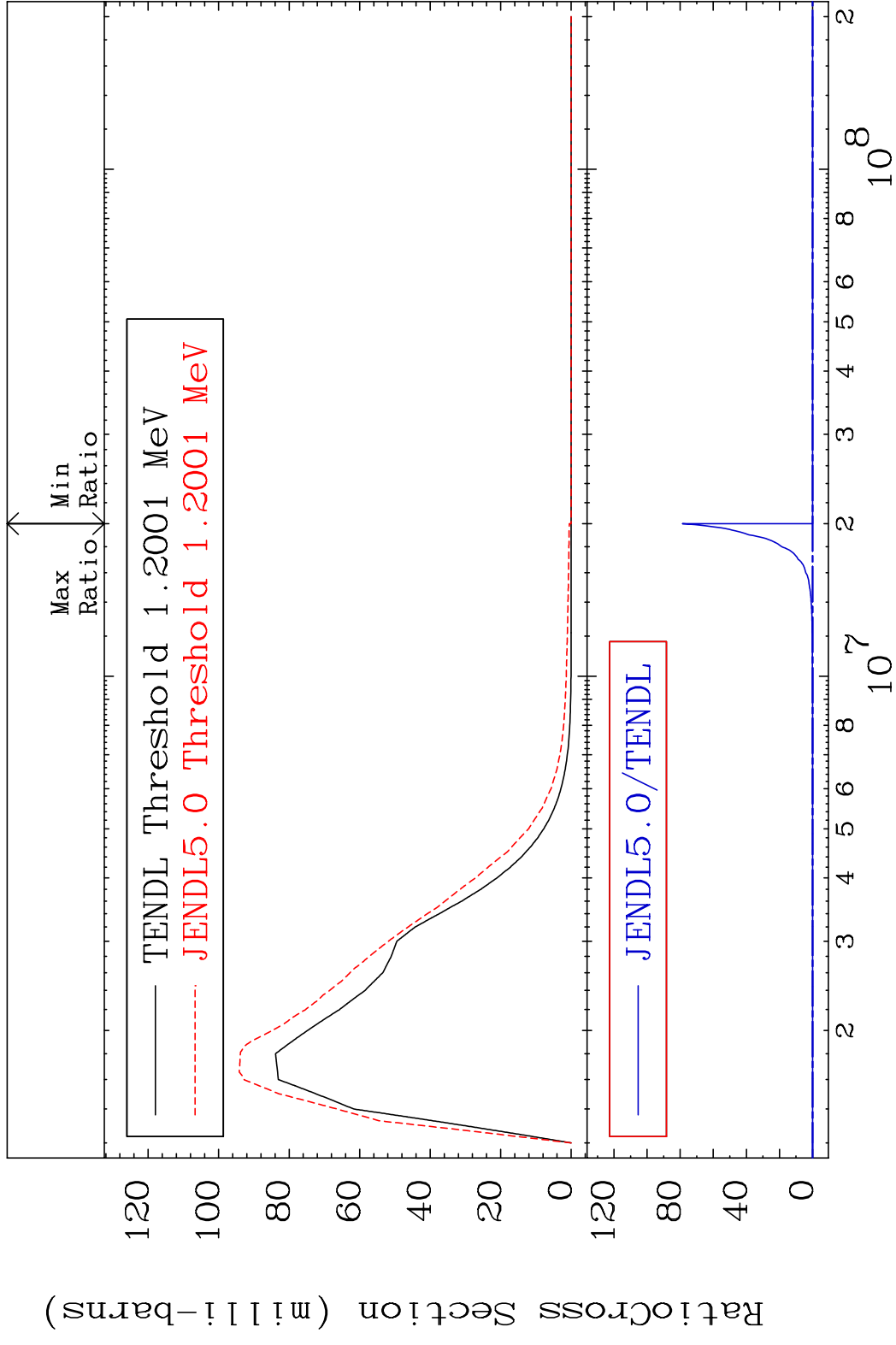
10 10 10⁵ 2 3 4 5 7 10⁶ 2 3 4 5 7 10⁷ 2 3 4 5 7 10⁸ 2 41-Nb-91

MAT 4119 MT= 52 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %

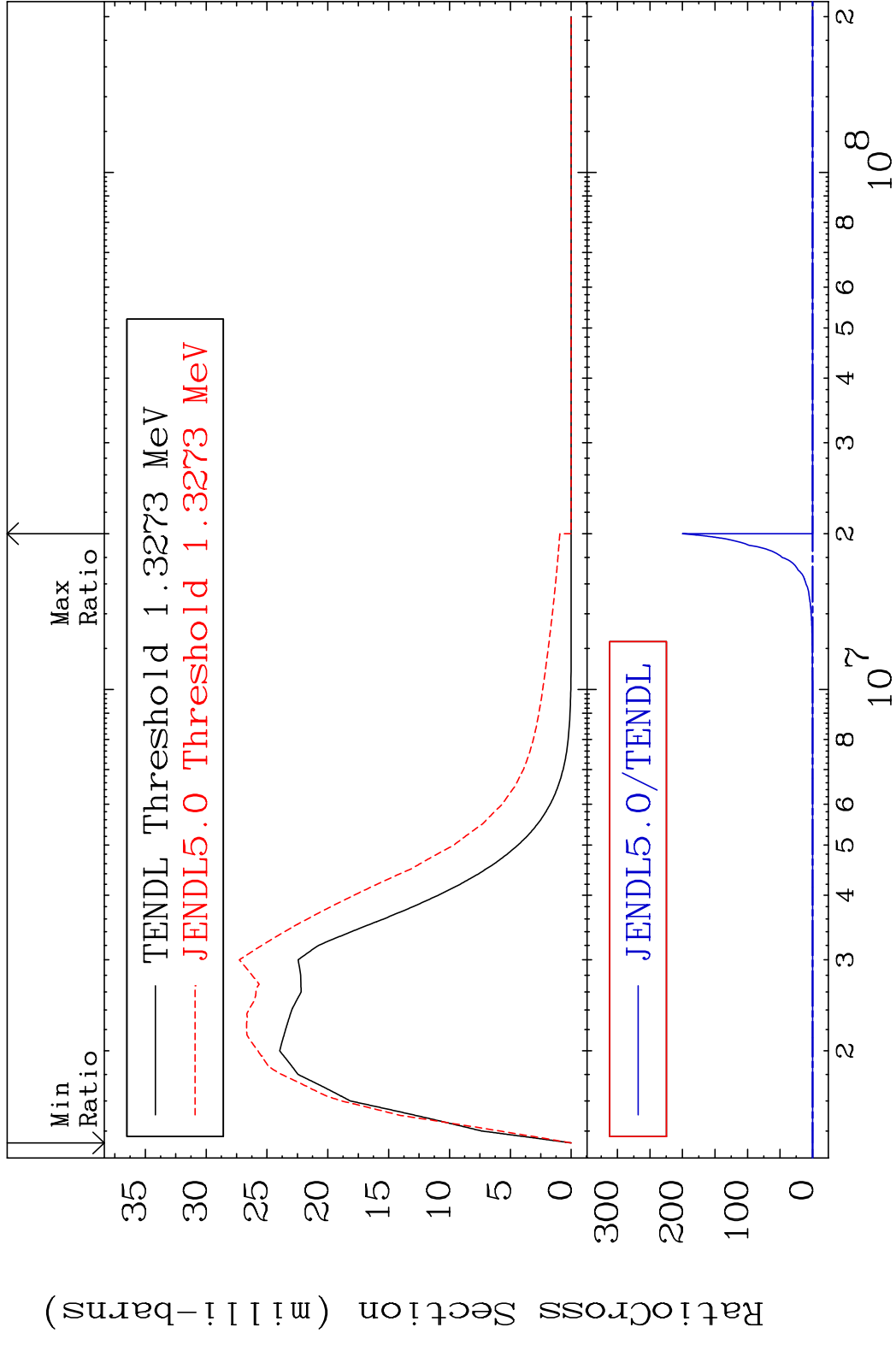


11 Incident Energy (eV) 41-Nb-91

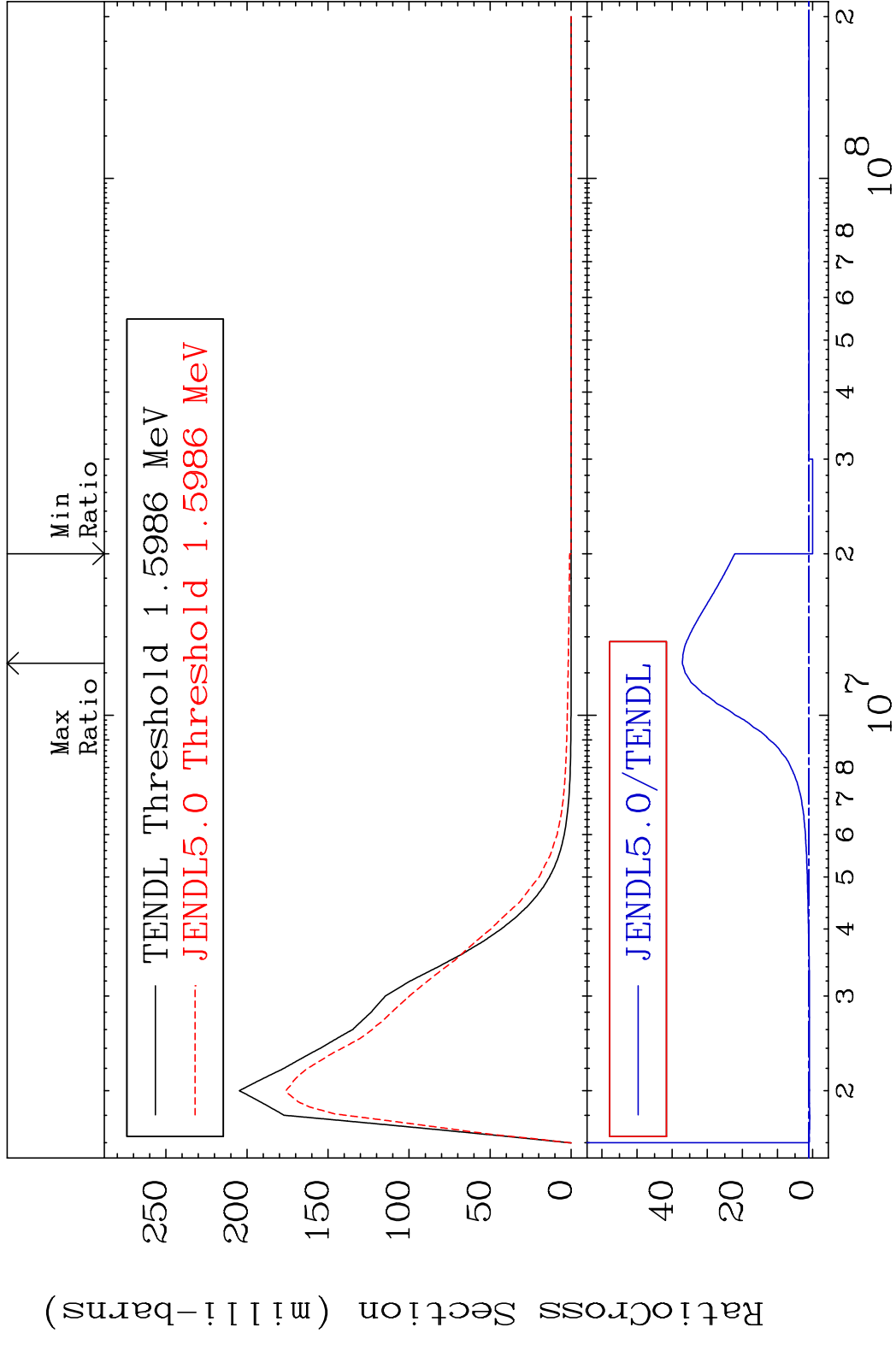
MAT 4119 MT= 53 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %



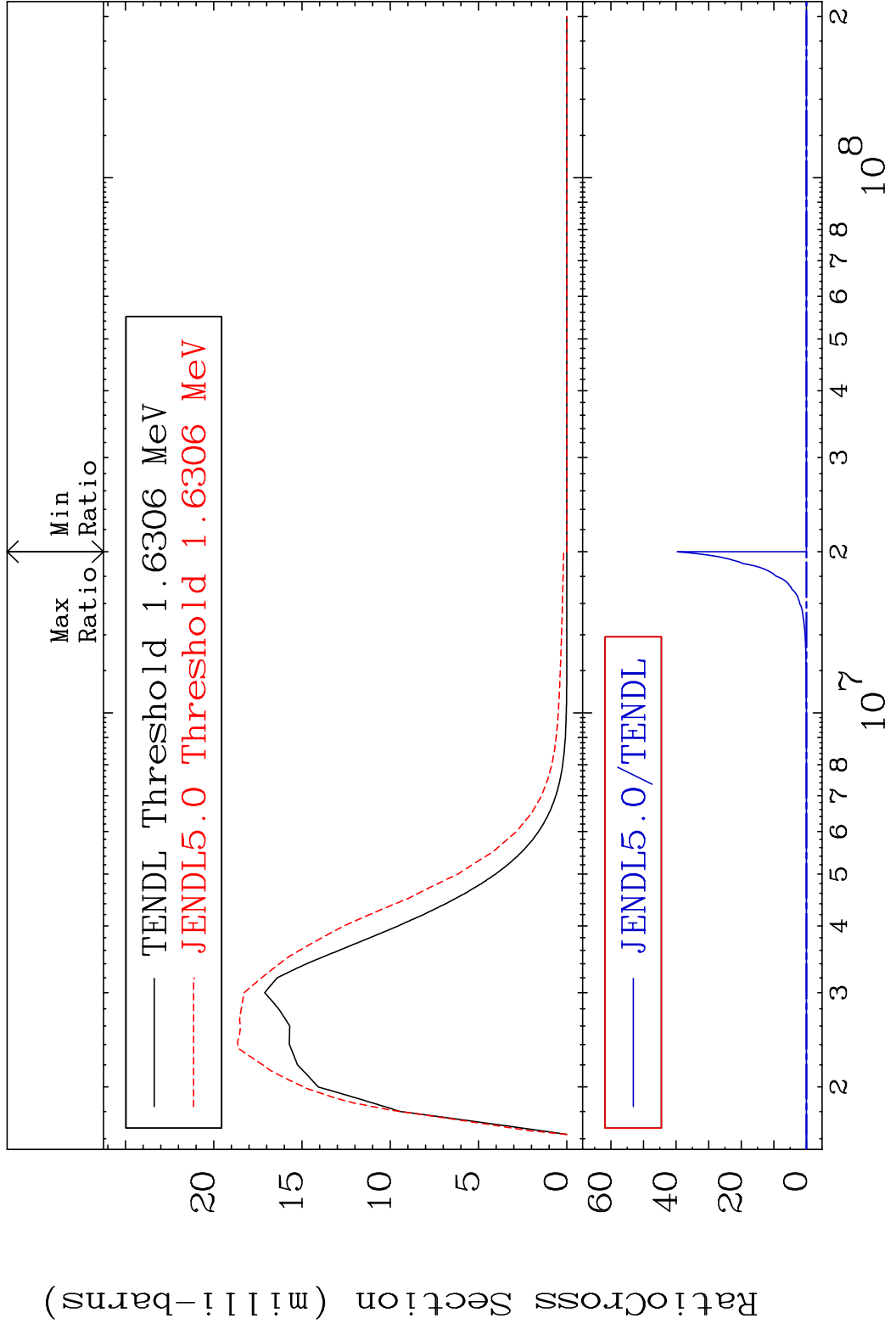
MAT 4119 MT= 54 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %



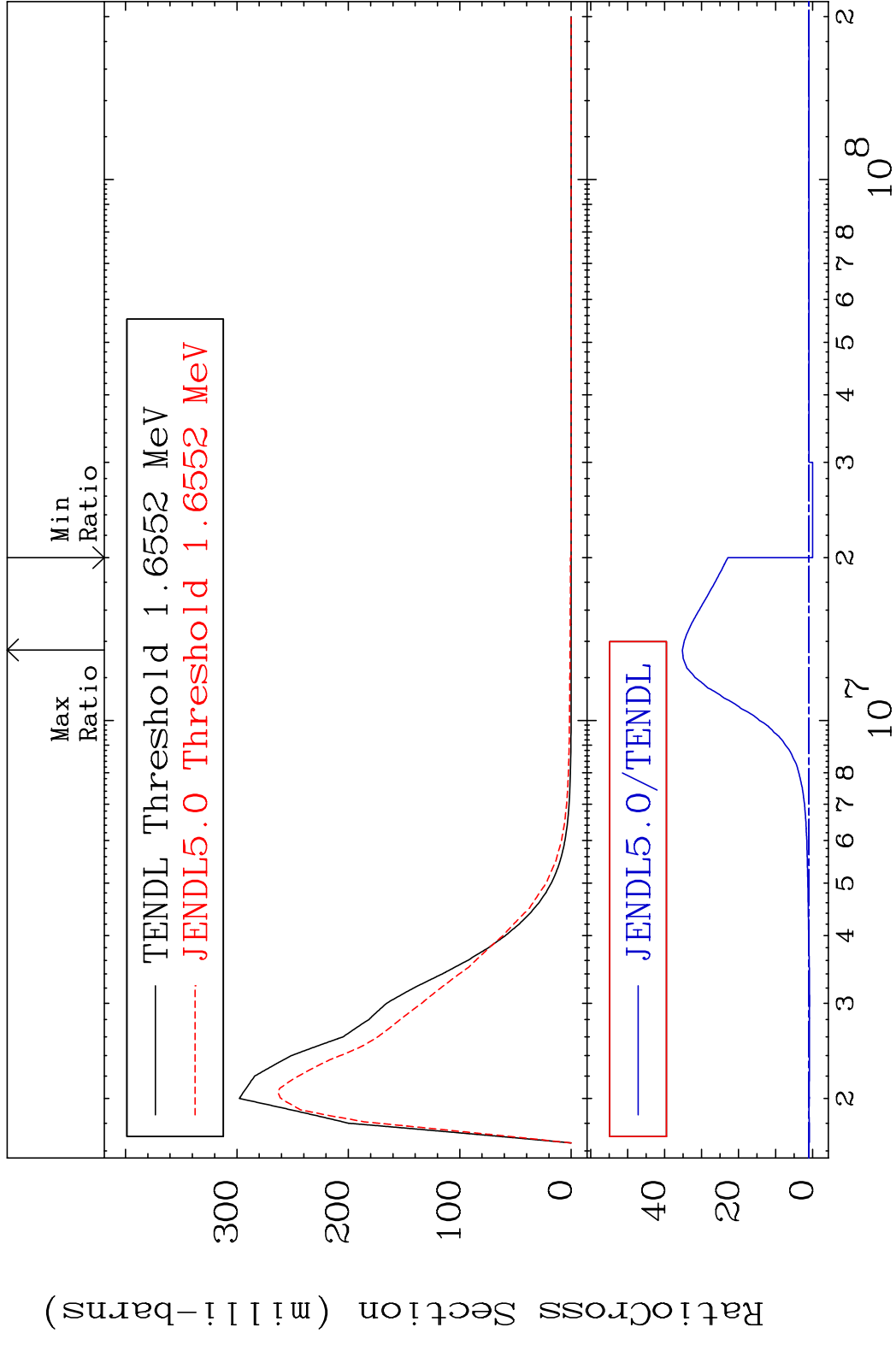
MAT 4119 MT= 55 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 3607. %



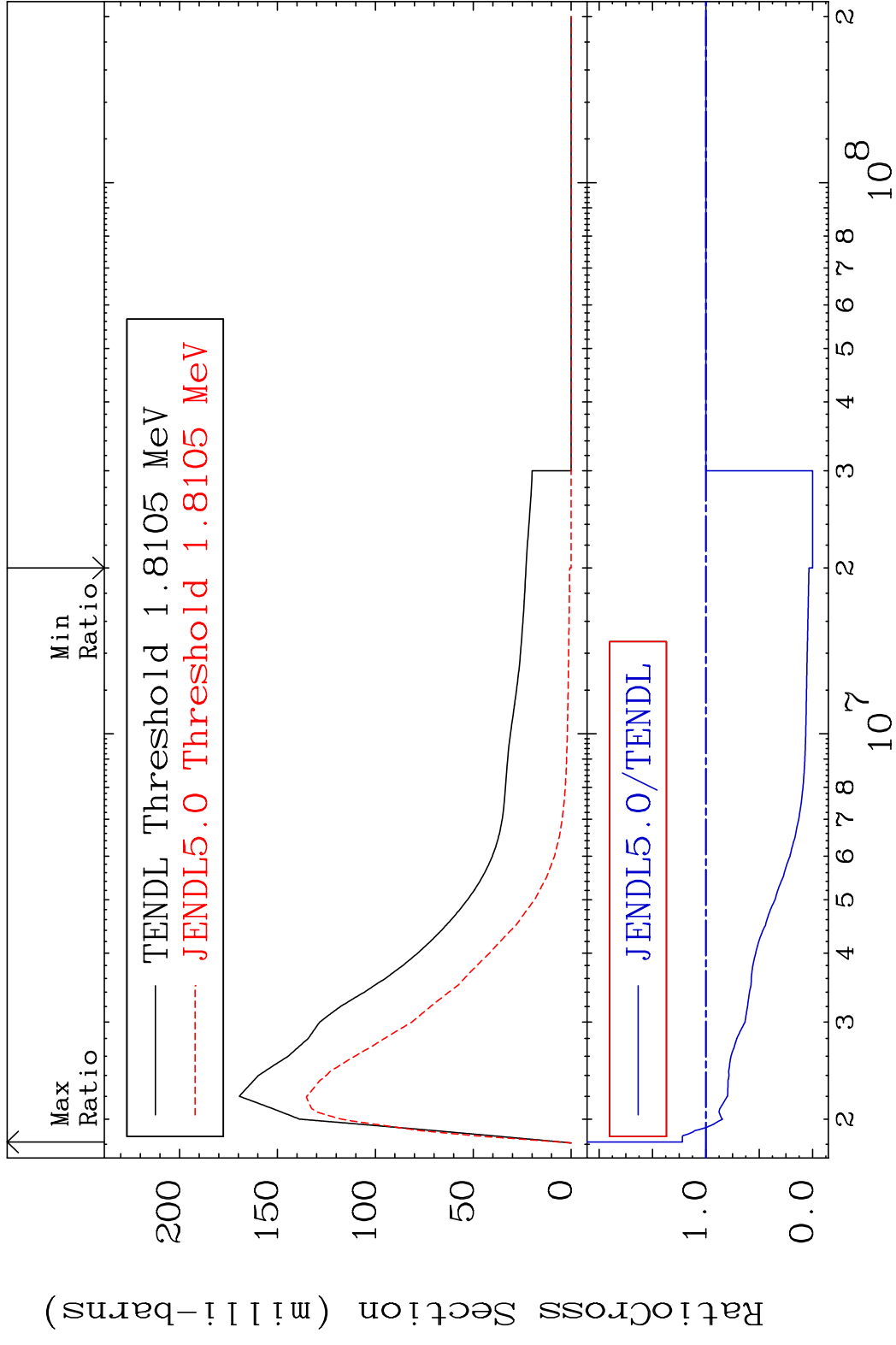
MAT 4119 MT= 56 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %



MAT 4119 MT= 57 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 3420. %

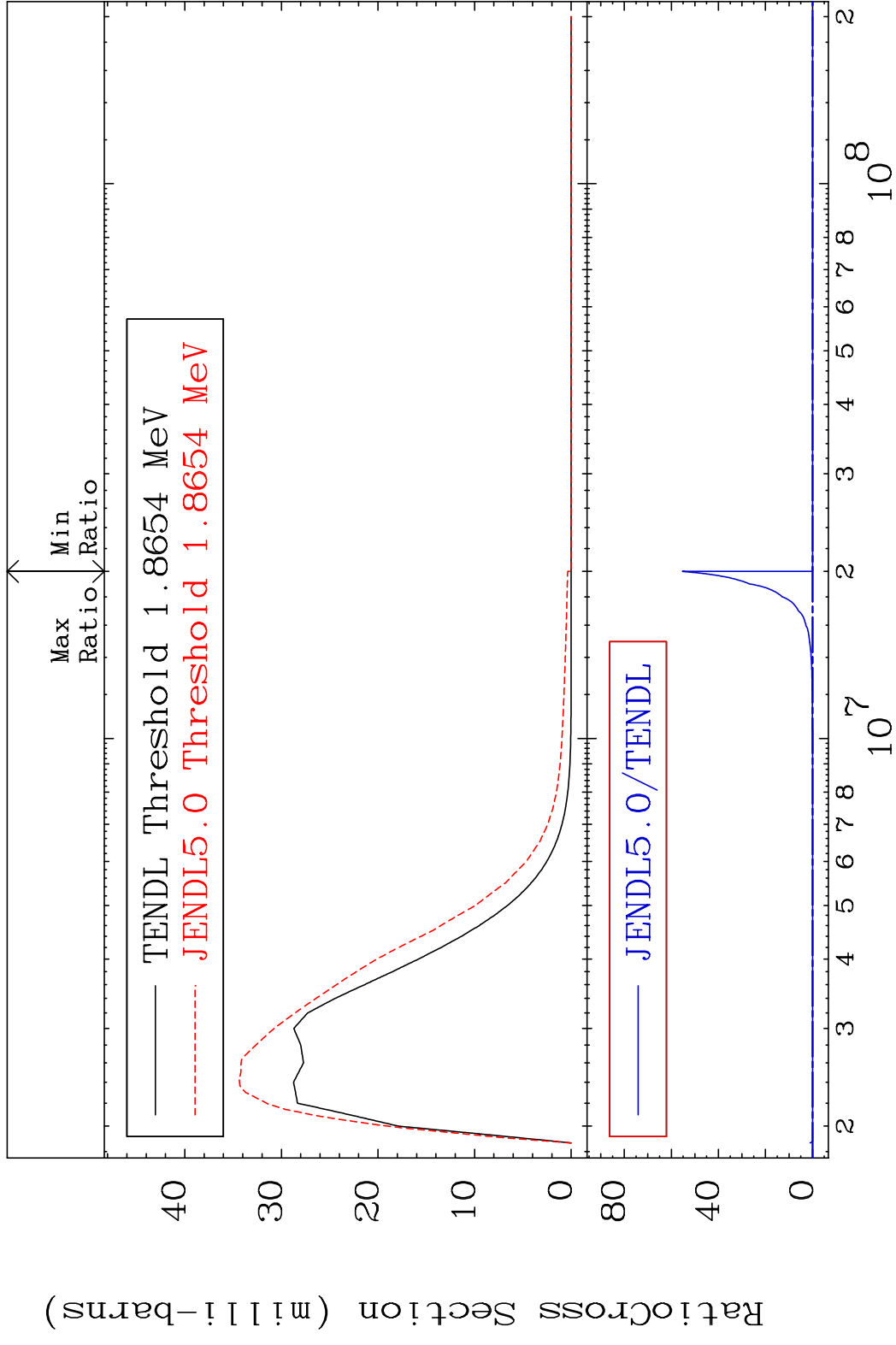


MAT 4119 MT= 58 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 22.02 %



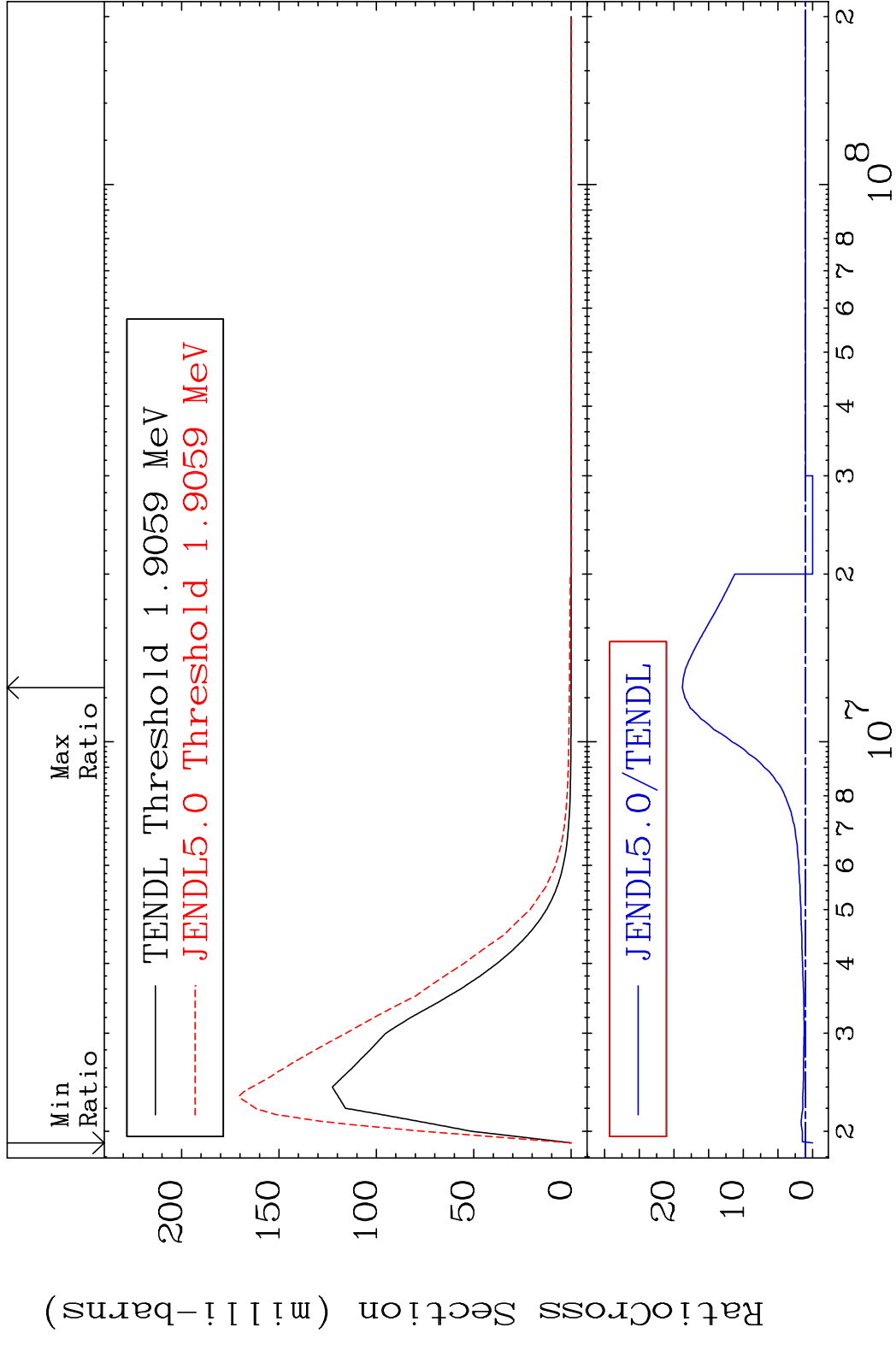
17 Incident Energy (eV) 41-Nb-91

MAT 4119 MT= 59 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %



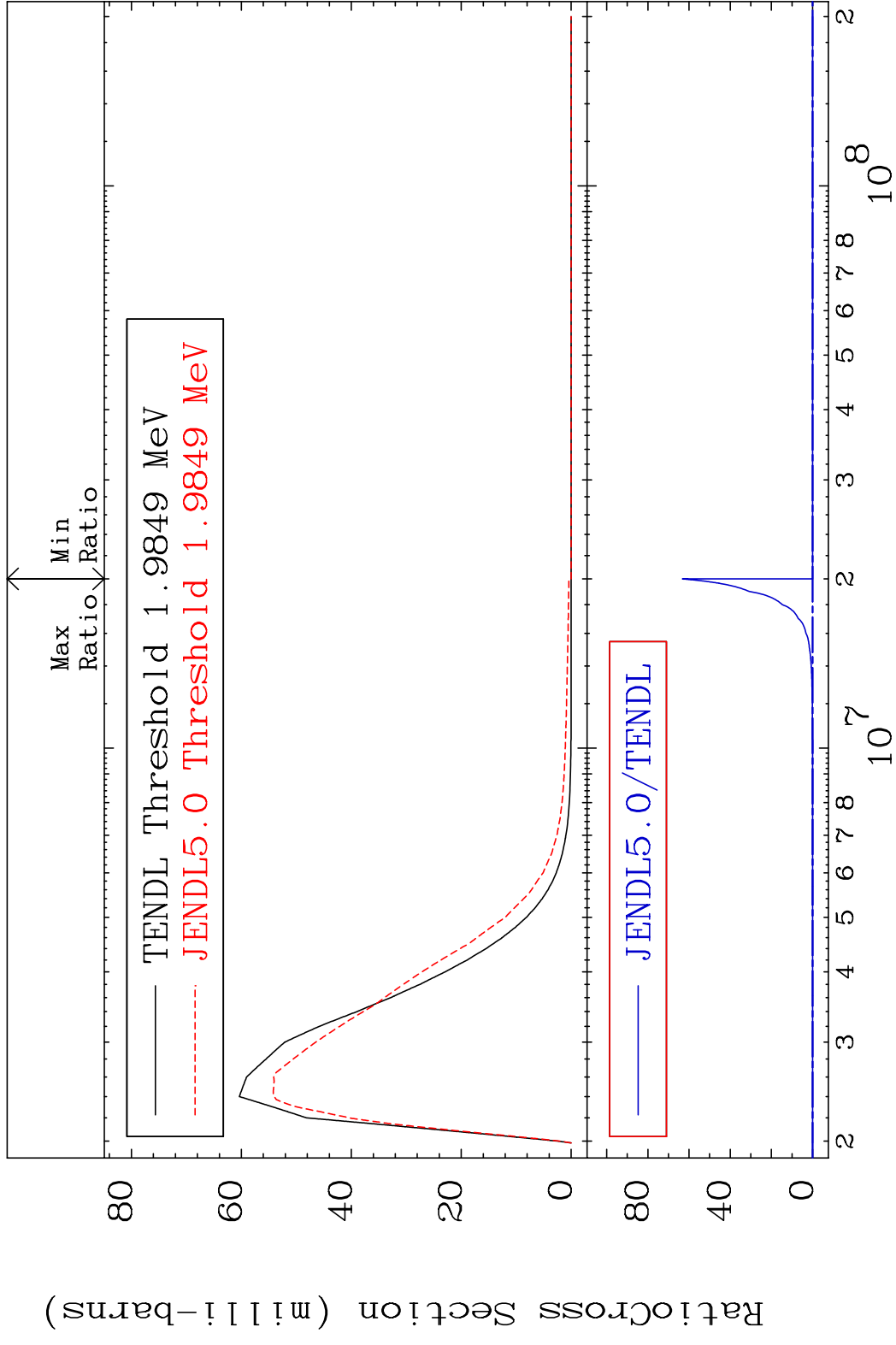
18 Incident Energy (eV) 41-Nb-91

MAT 4119 MT= 60 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 1779. %



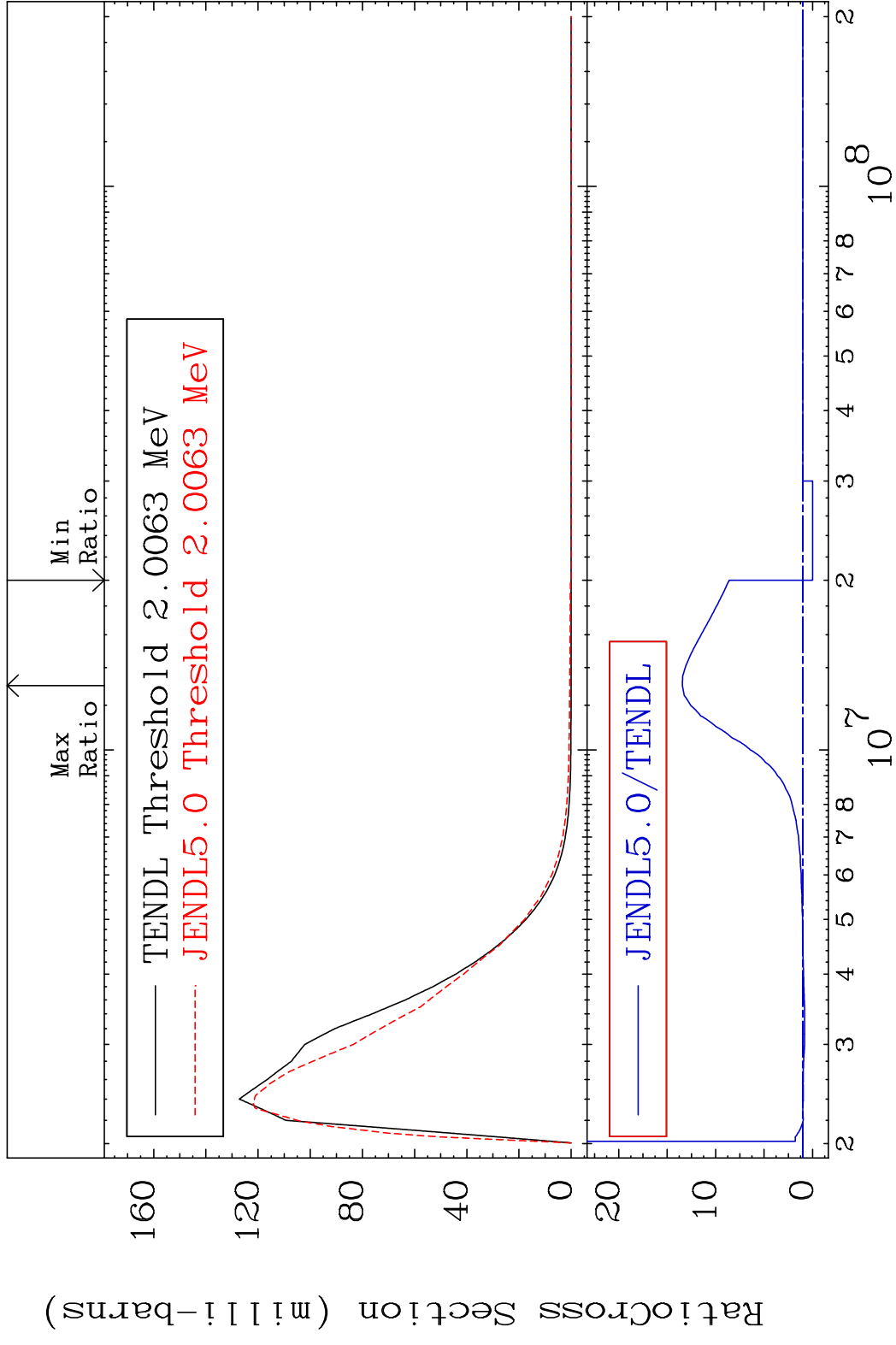
19 Incident Energy (eV) 41-Nb-91

MAT 4119 MT= 61 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %

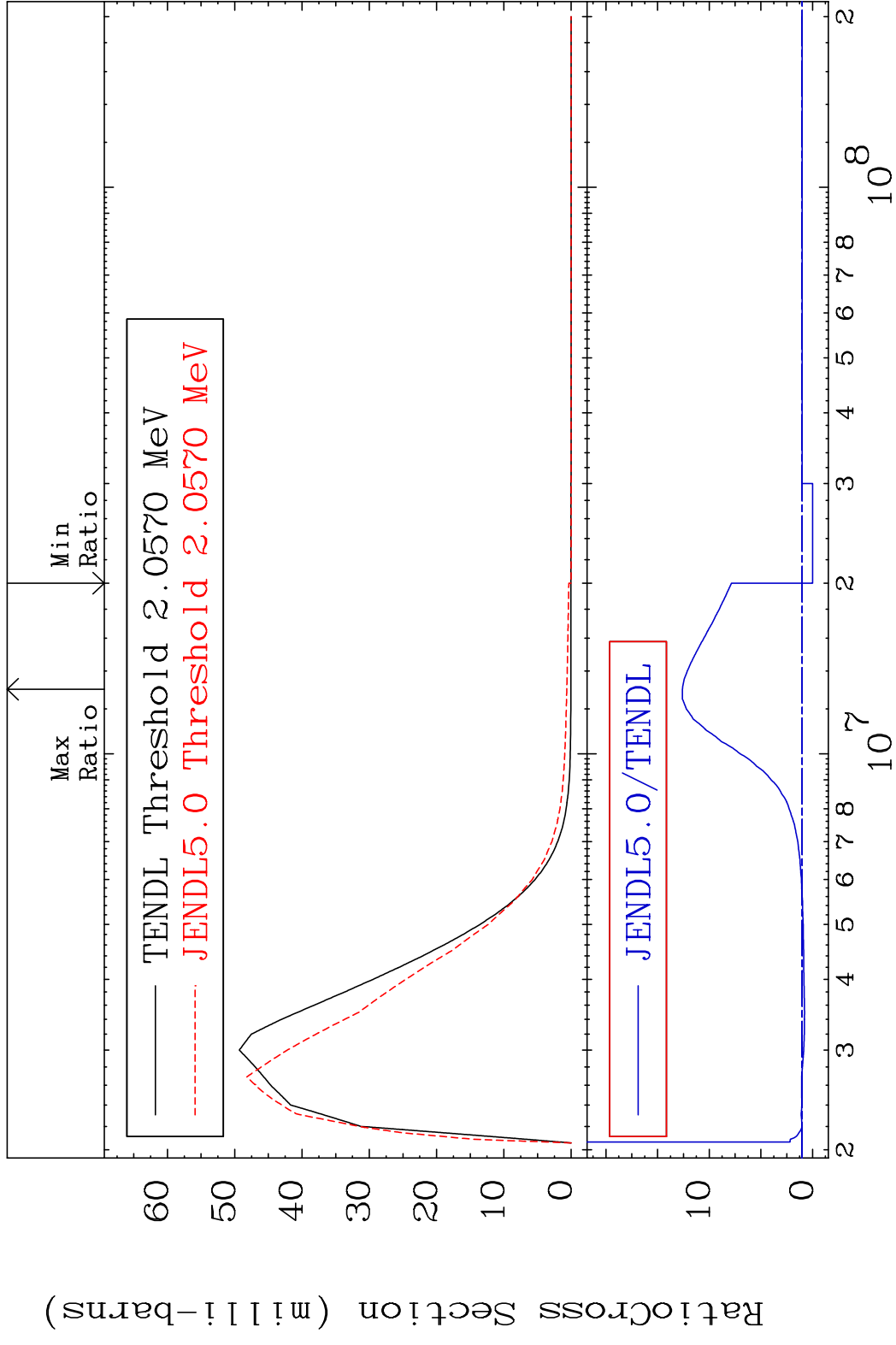


20 2 3 4 5 6 7 8 10⁷ 10⁸ 2 41-Nb-91

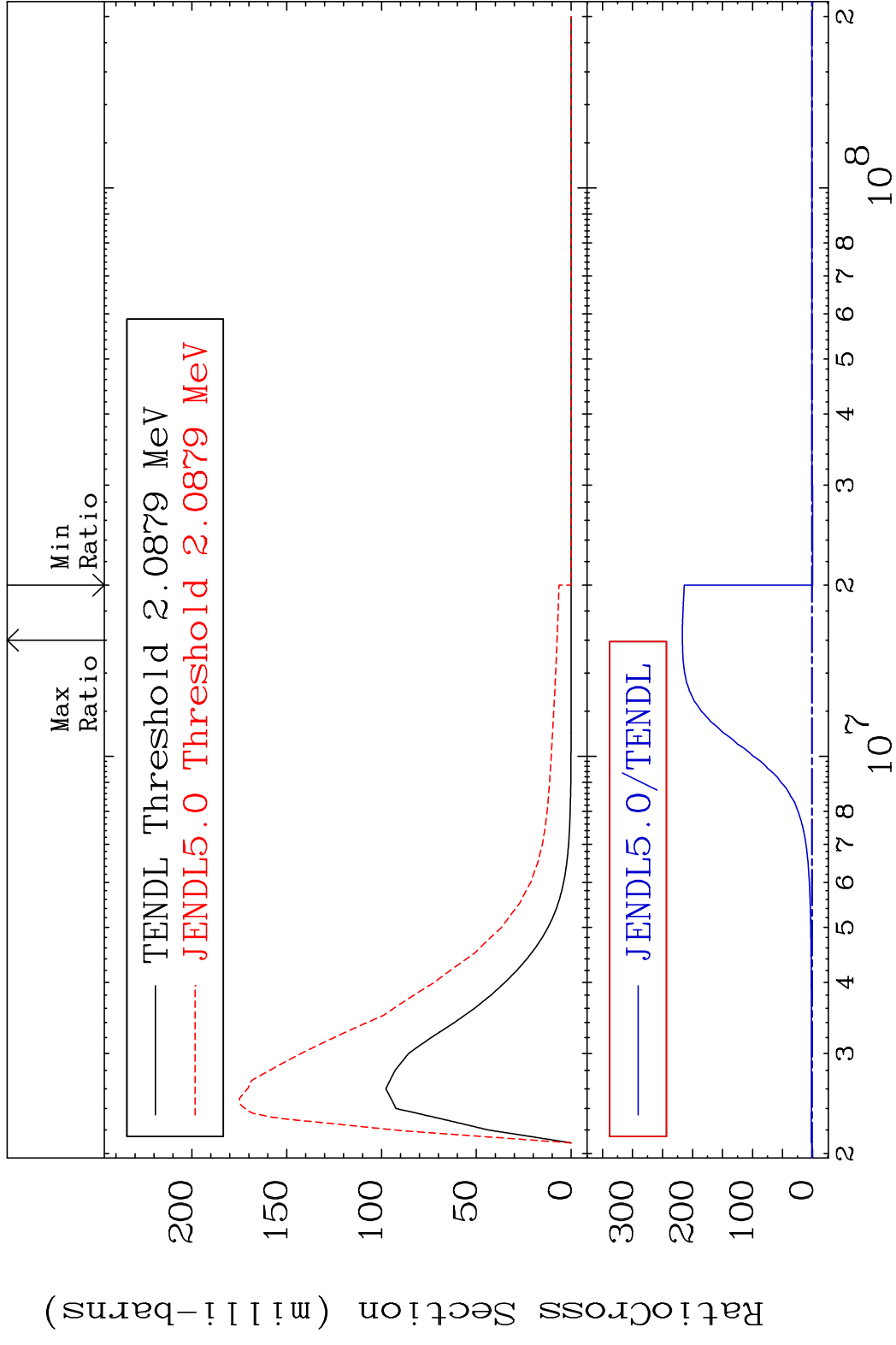
MAT 4119 MT= 62 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 1243. %



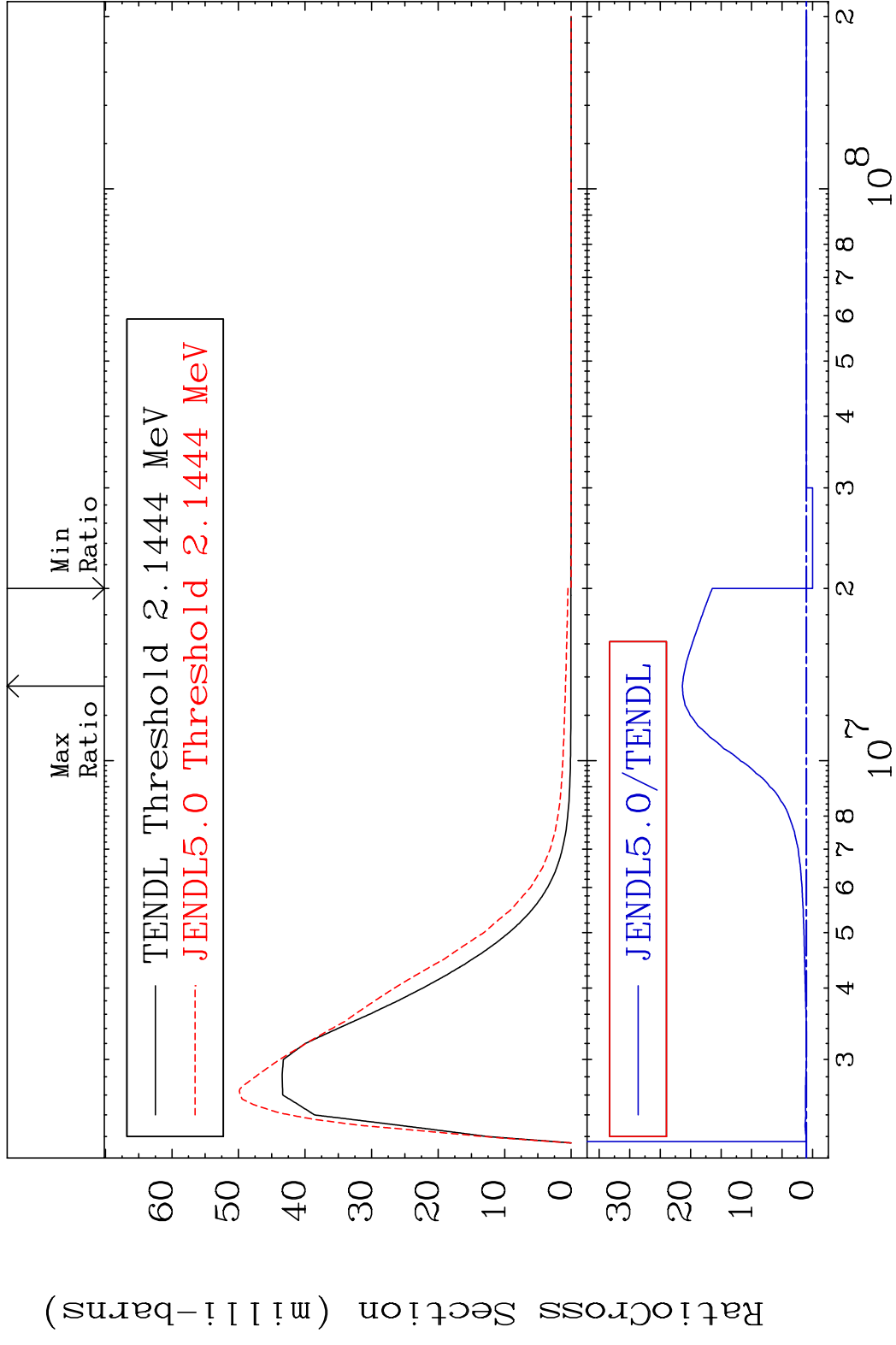
MAT 4119 MT= 63 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 1160. %



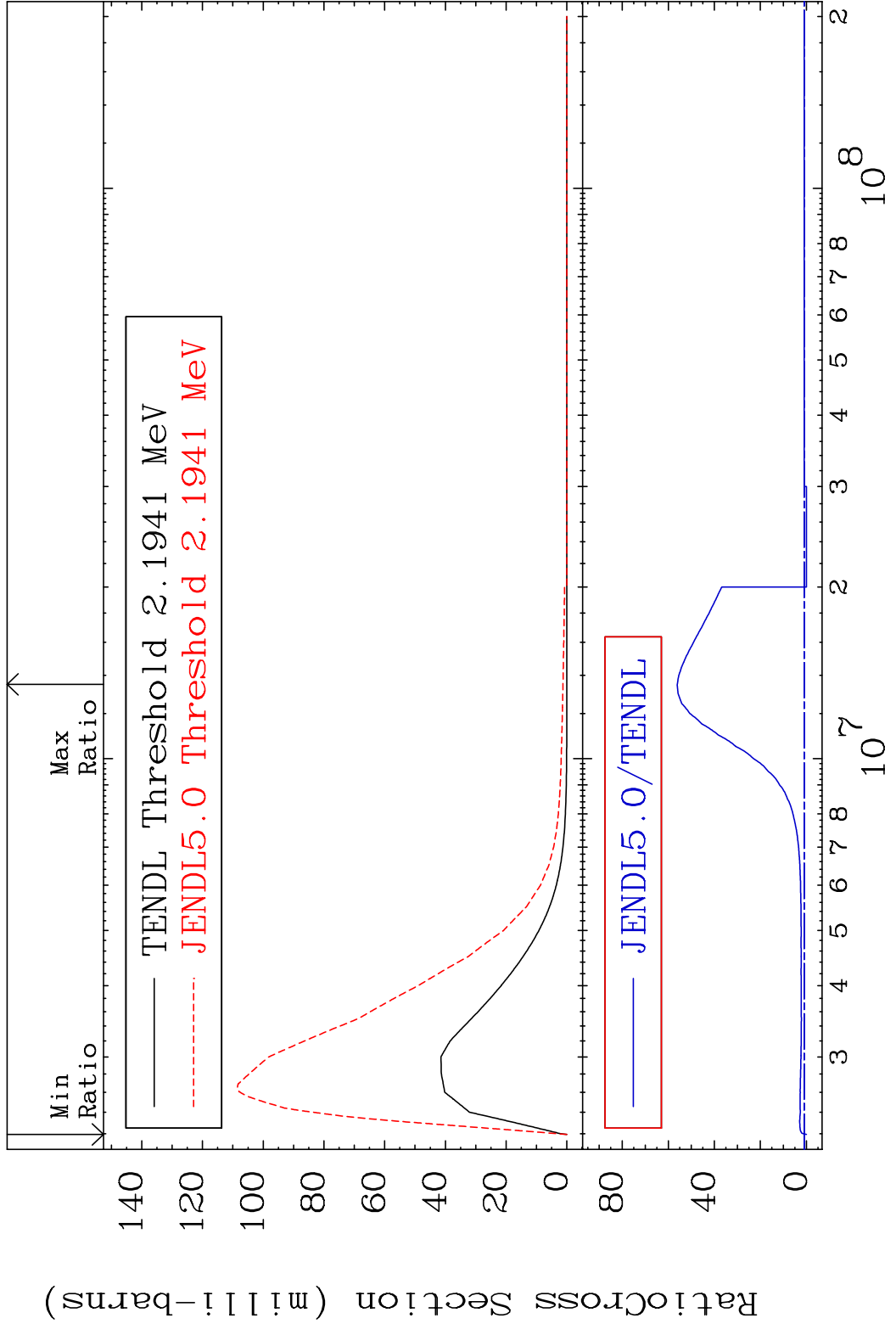
MAT 4119 MT= 64 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %



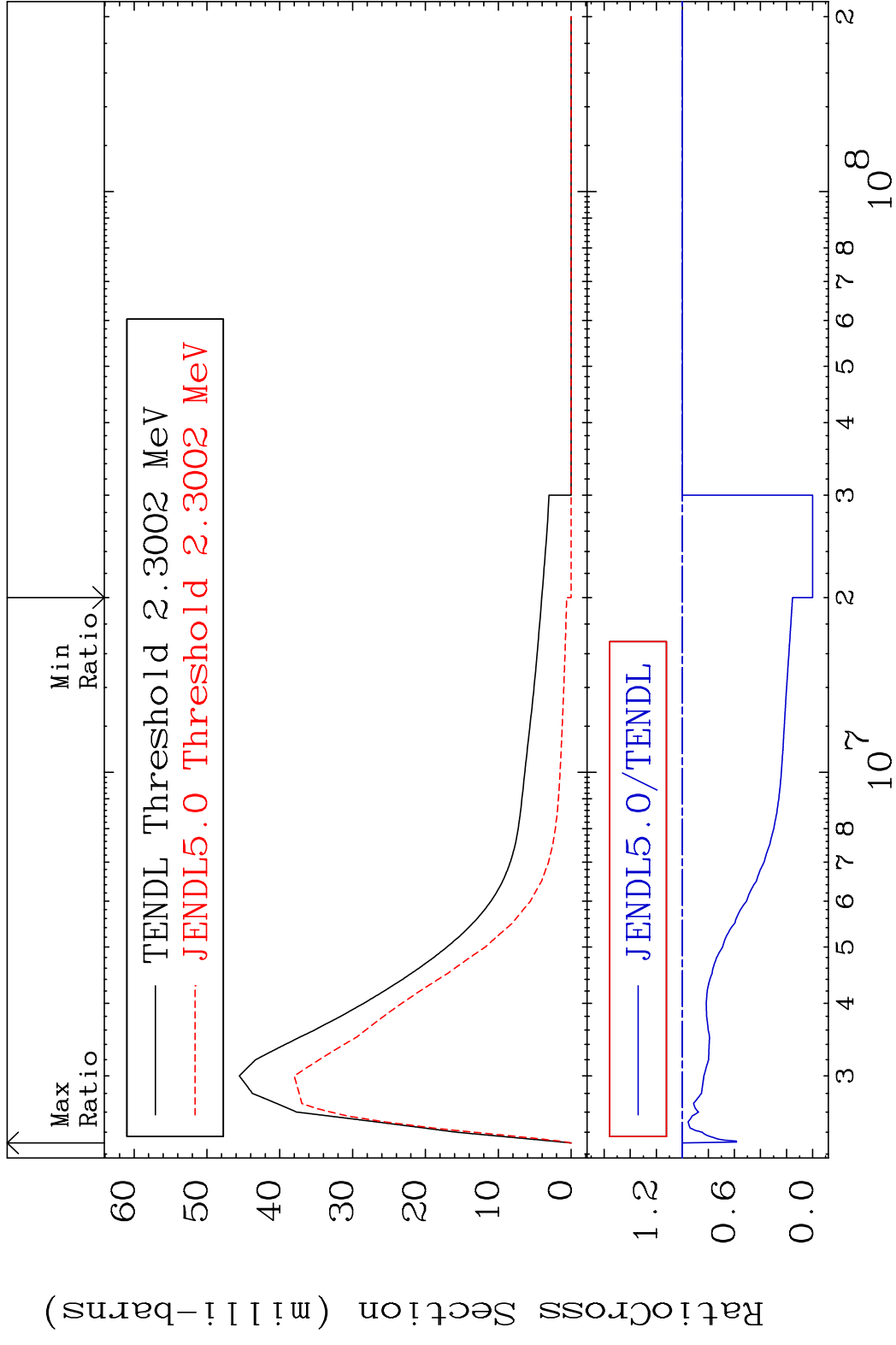
MAT 4119 MT= 65 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 2036. %



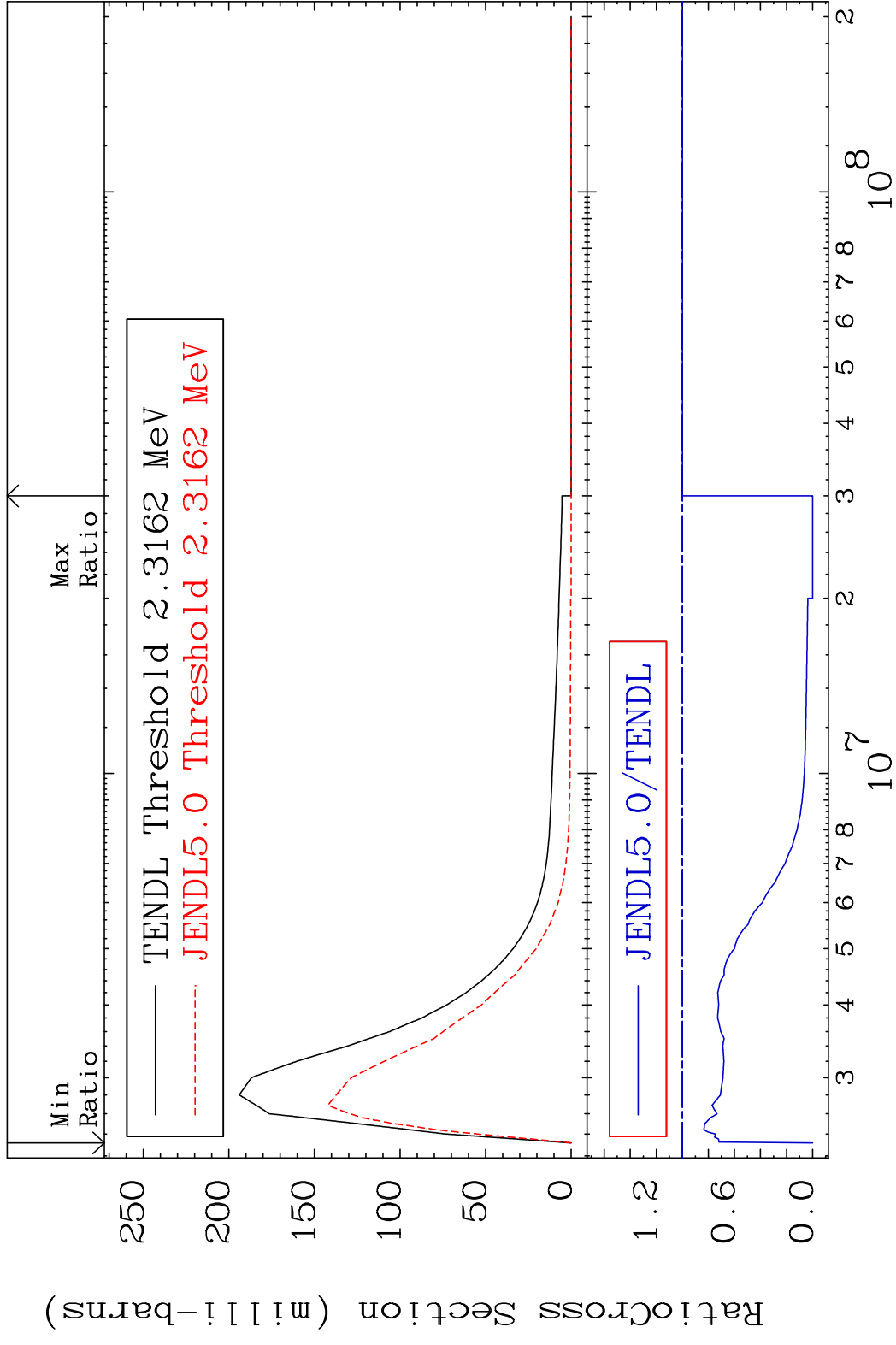
MAT 4119 MT= 66 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 5514. %



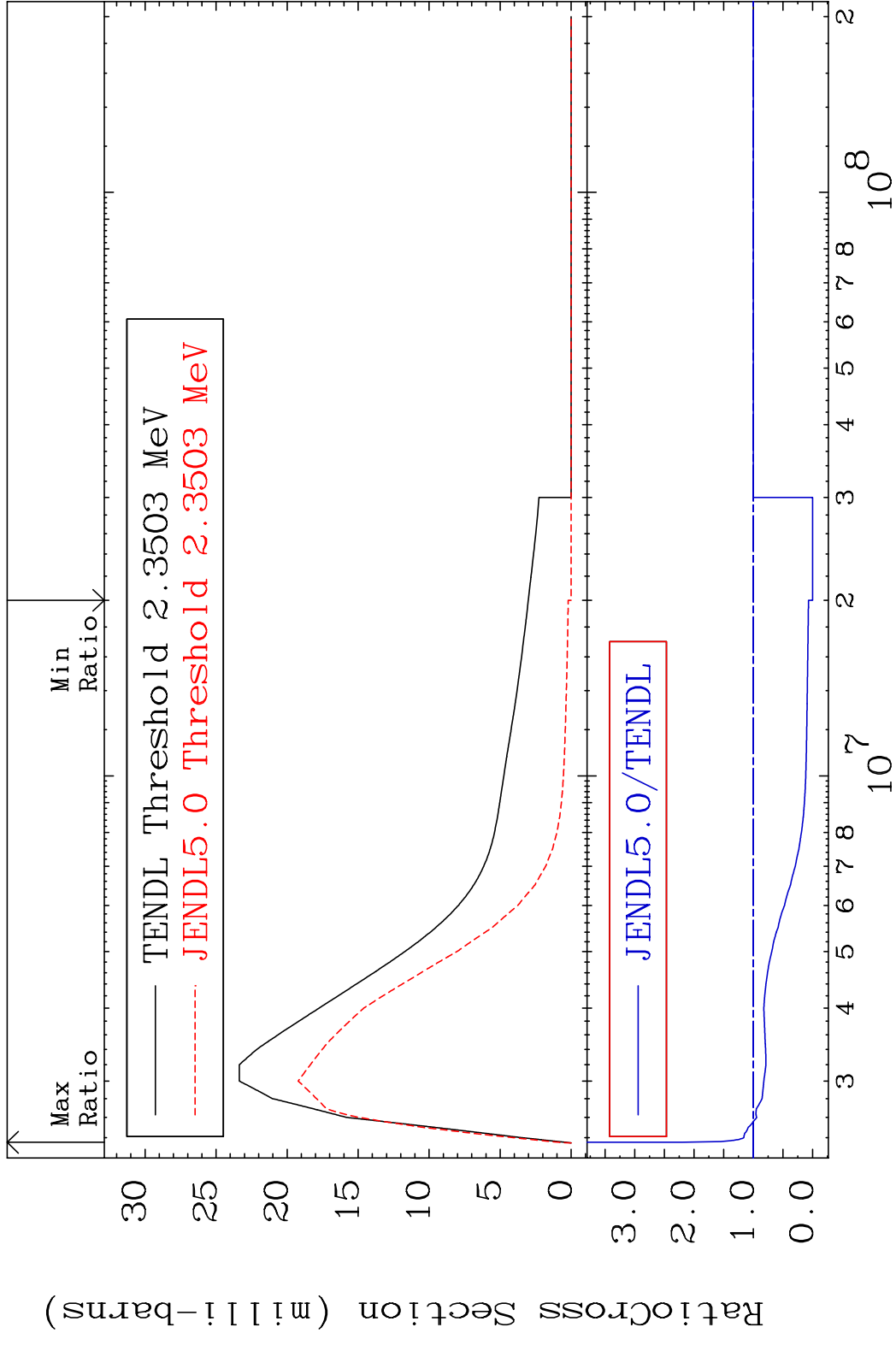
MAT 4119 MT= 67 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 0.000 %



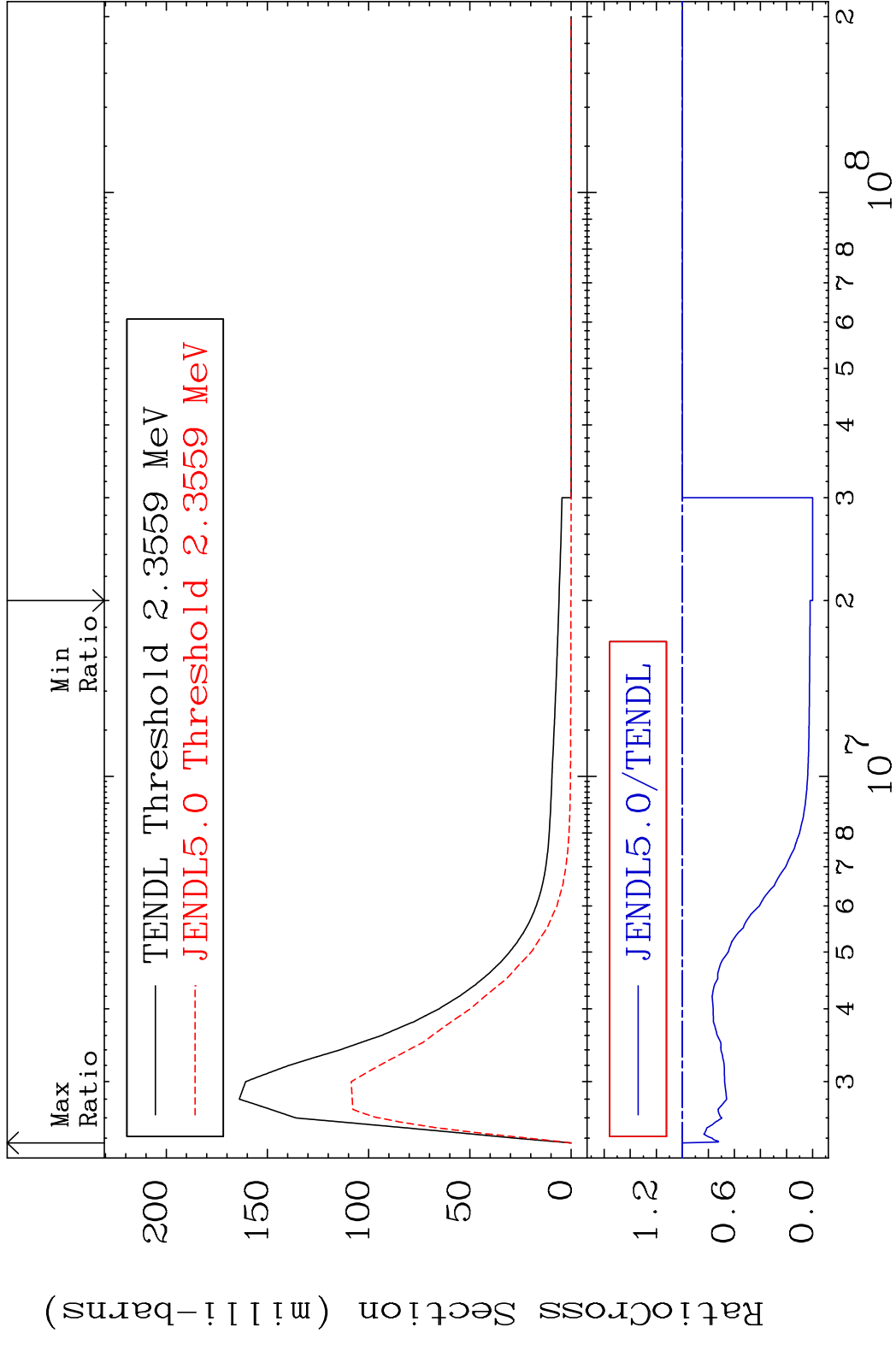
MAT 4119 MT= 68 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 0.000 %



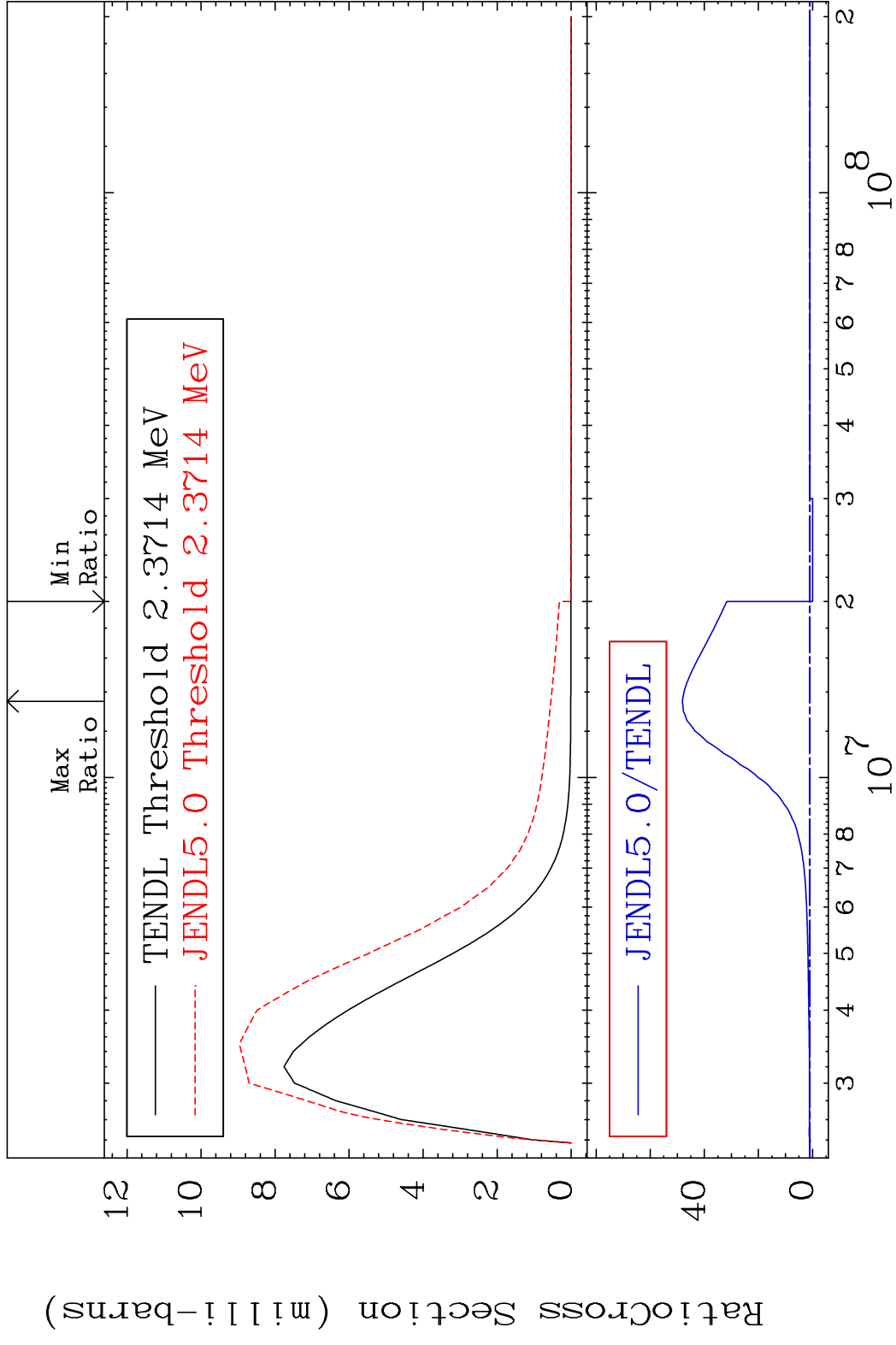
MAT 4119 MT= 69 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 119.8 %



MAT 4119 MT= 70 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 0.000 %

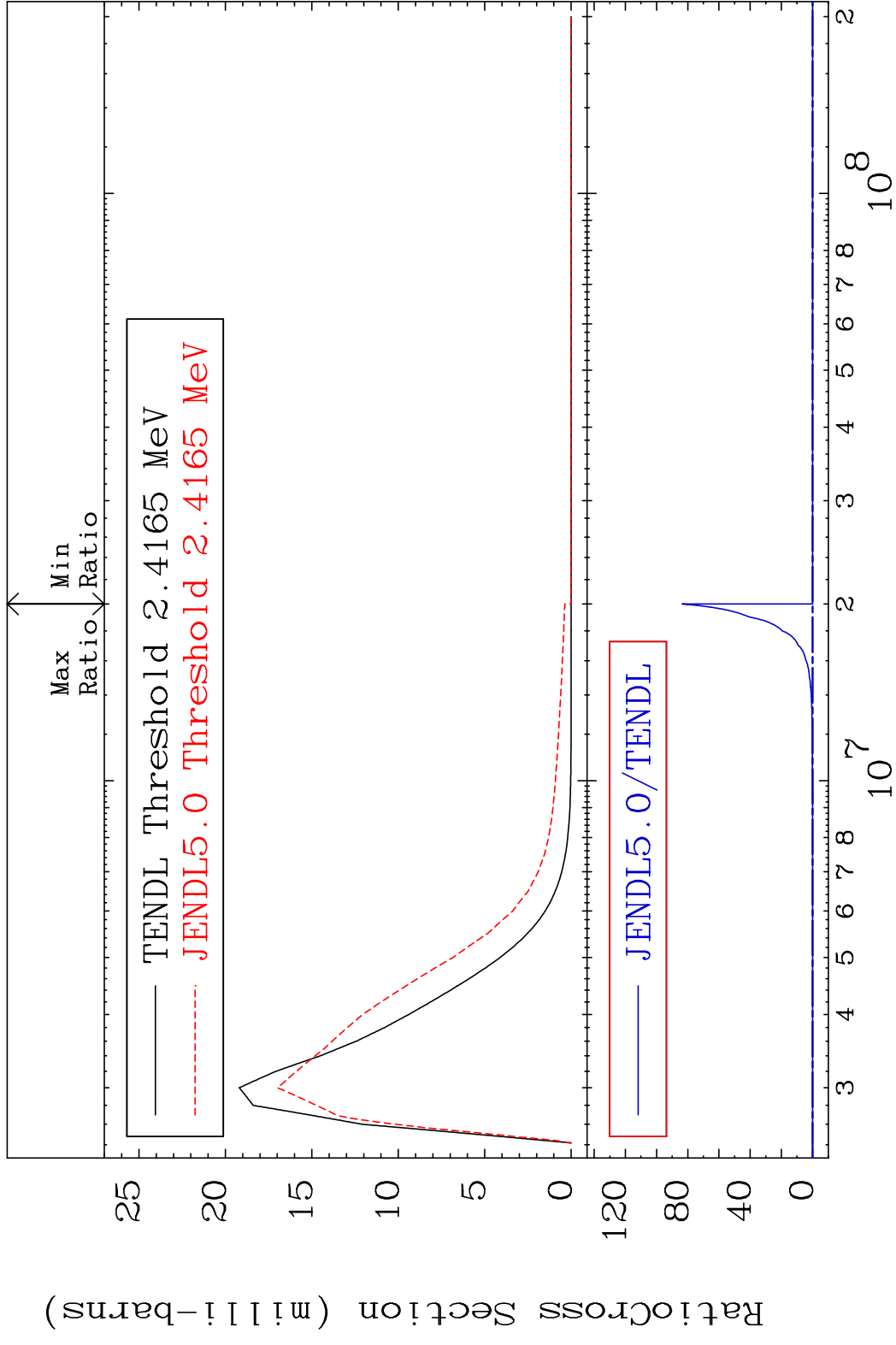


MAT 4119 MT= 71 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 4712. %

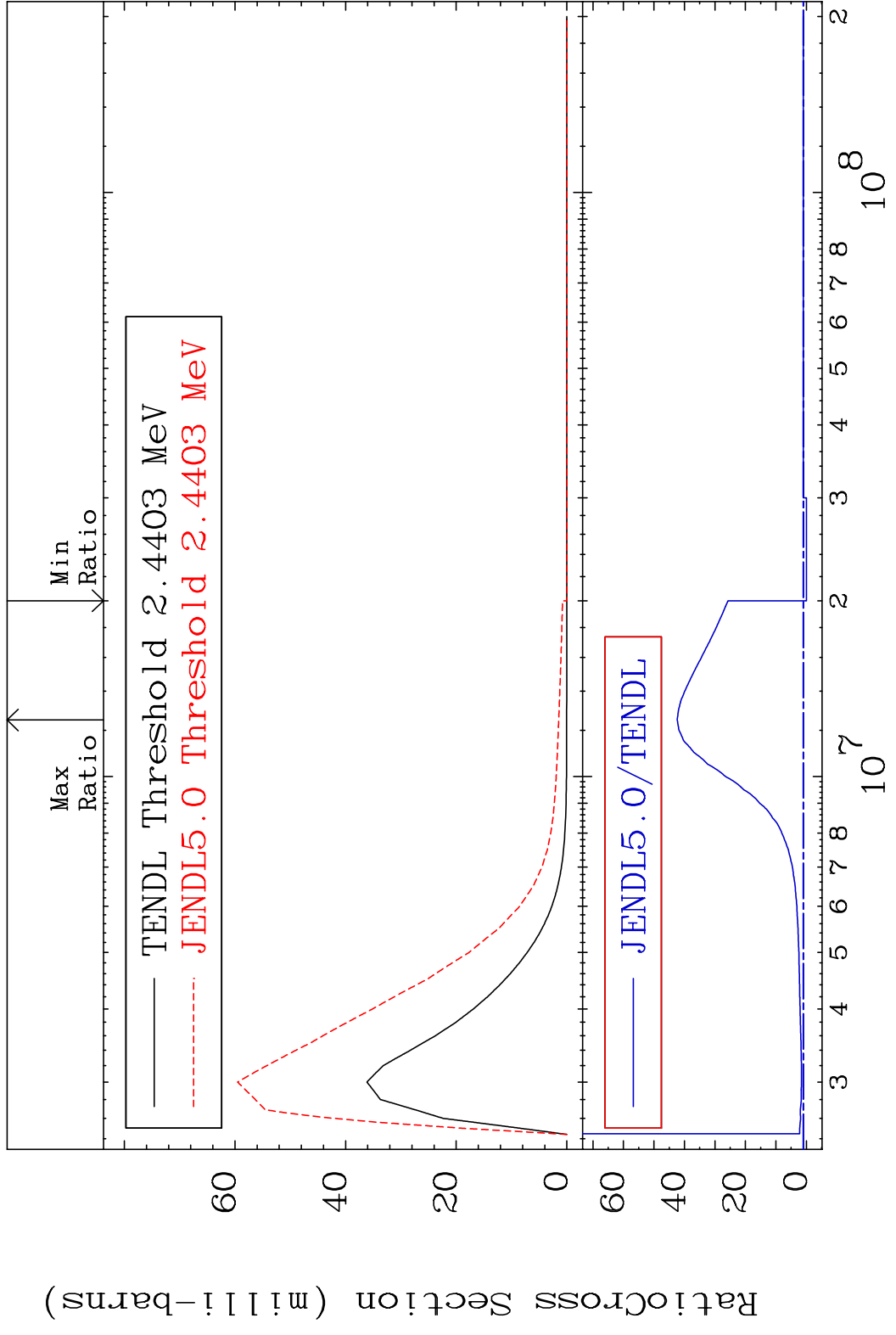


30 41-Nb-91

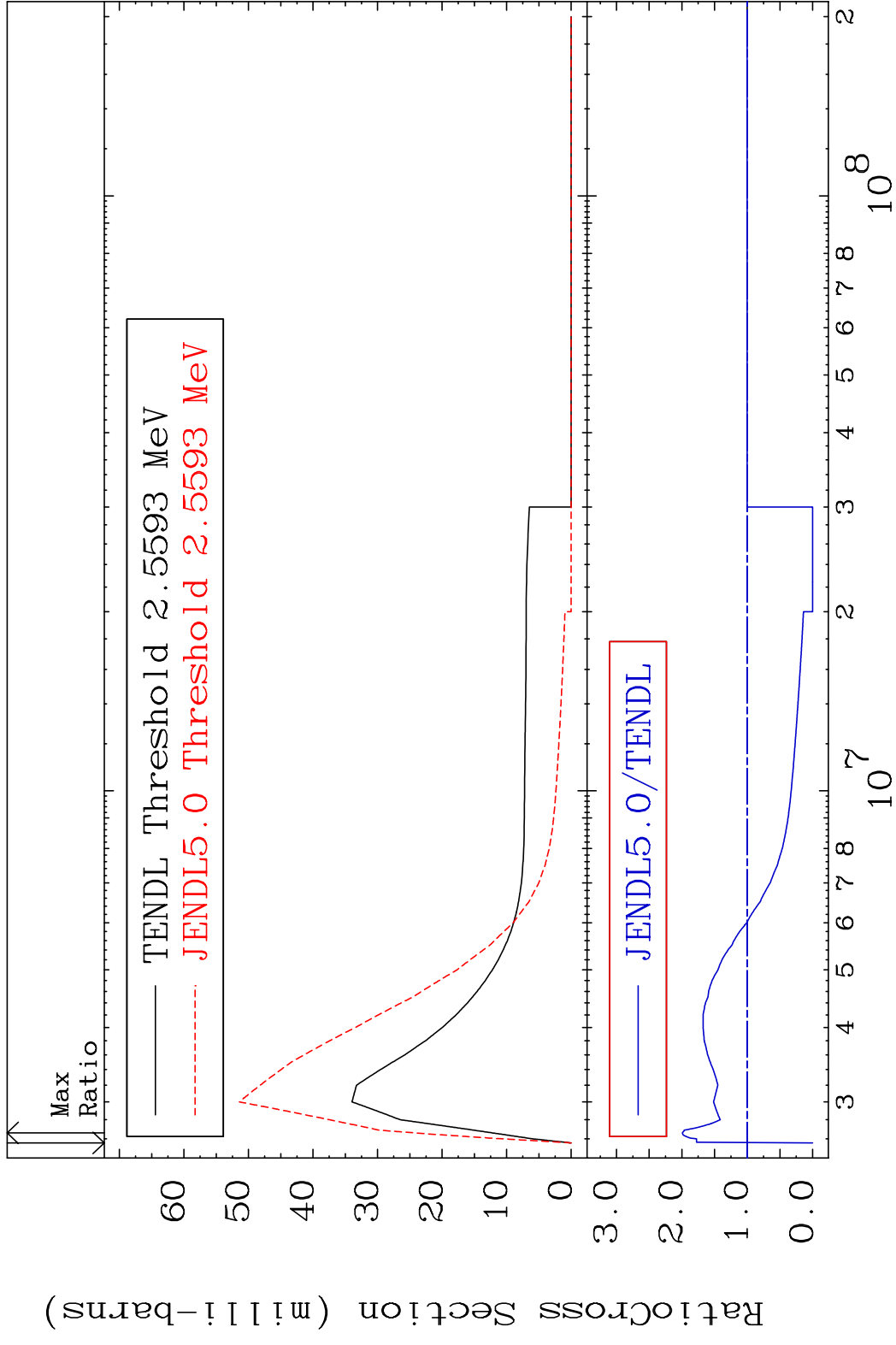
MAT 4119 MT= 72 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 9999. %



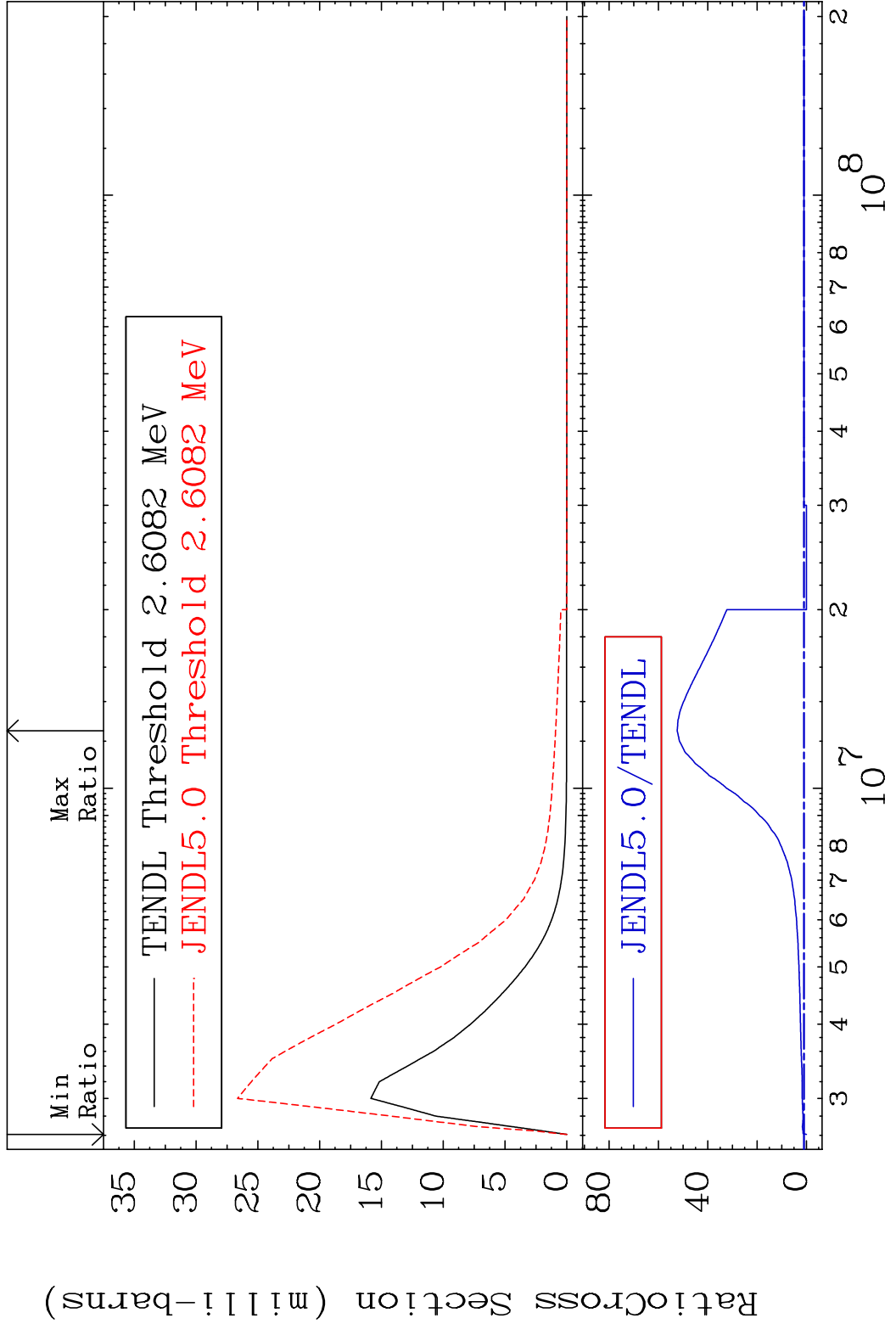
MAT 4119 MT= 73 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 4138. %



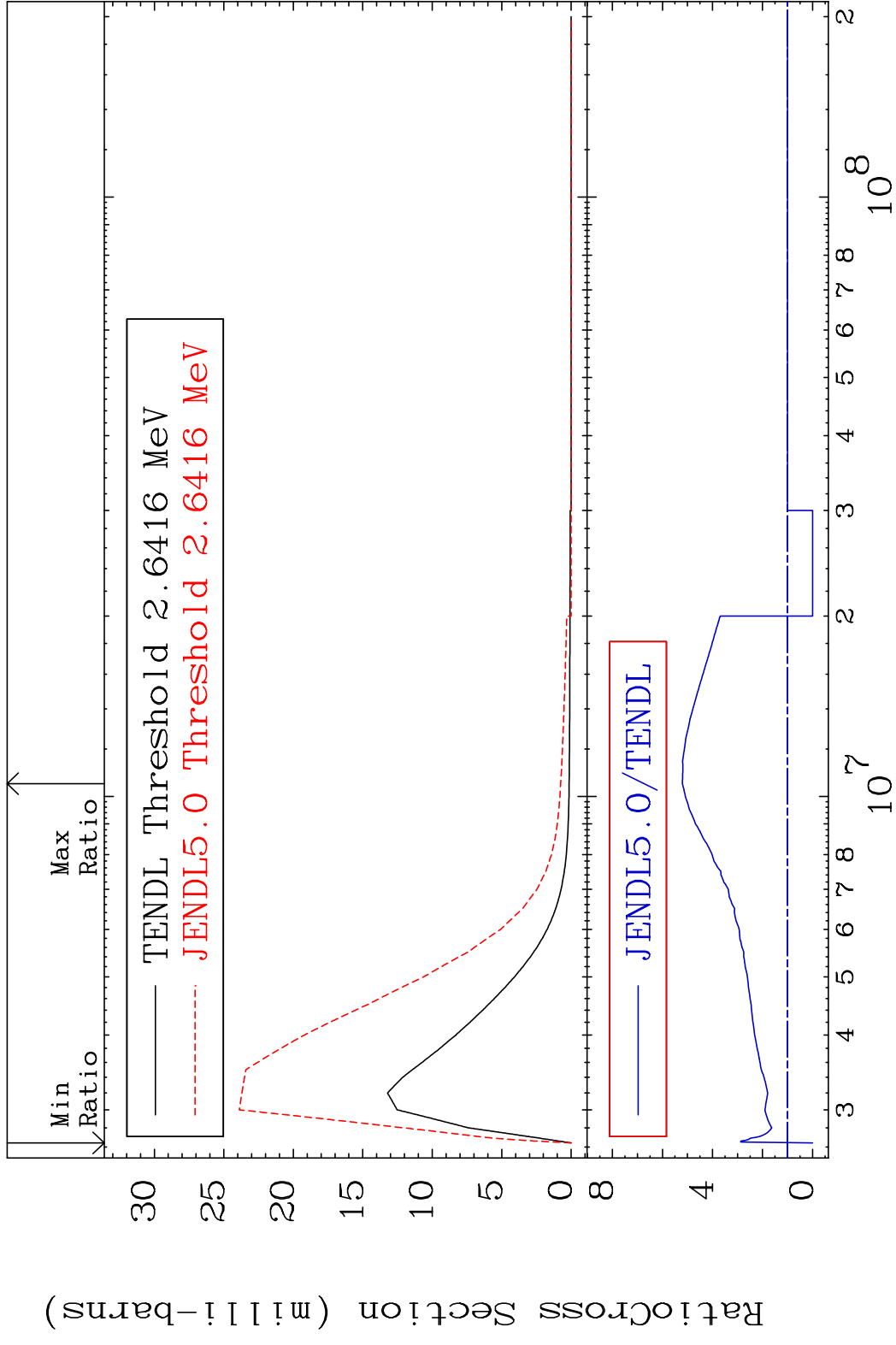
MAT 4119 MT= 74 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 99.26 %



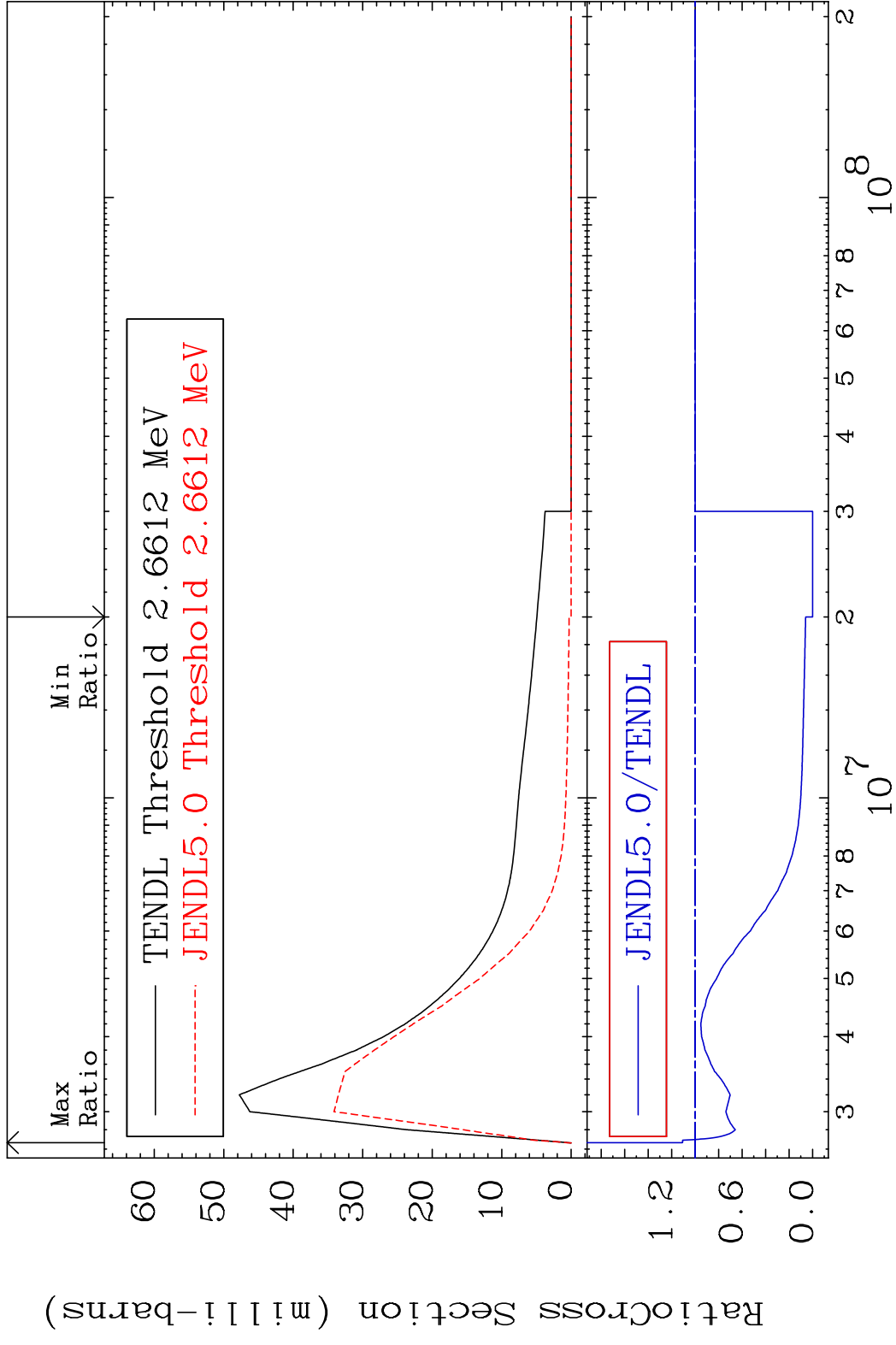
MAT 4119 MT= 75 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 5141. %



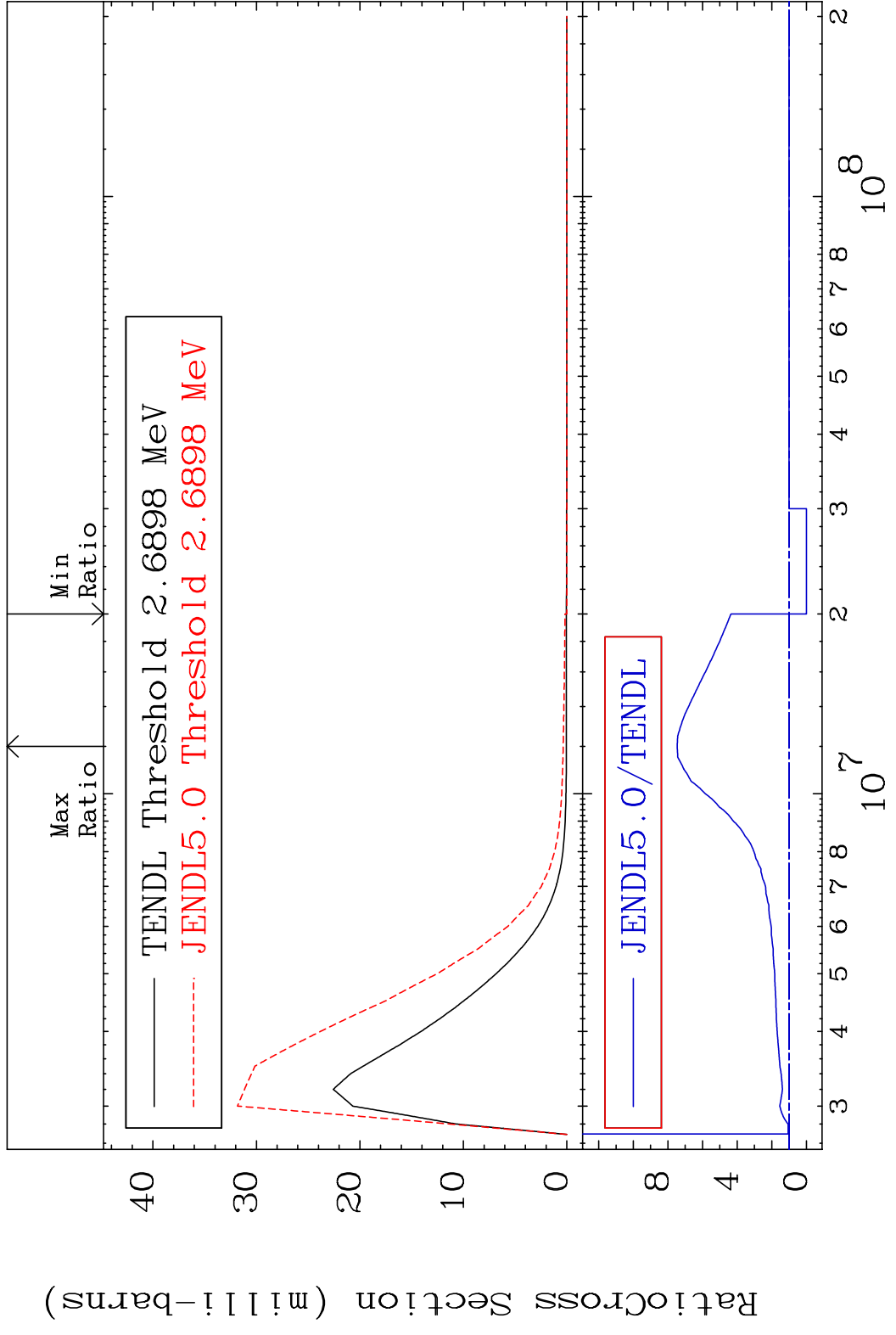
MAT 4119 MT= 76 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 420.4 %



MAT 4119 MT= 77 (n,n') Level 41-Nb-91
 Cross Section -100.0 To 10.88 %



MAT 4119 MT= 78 (n, n') Level 41-Nb-91
 Cross Section -100.0 To 646.5 %

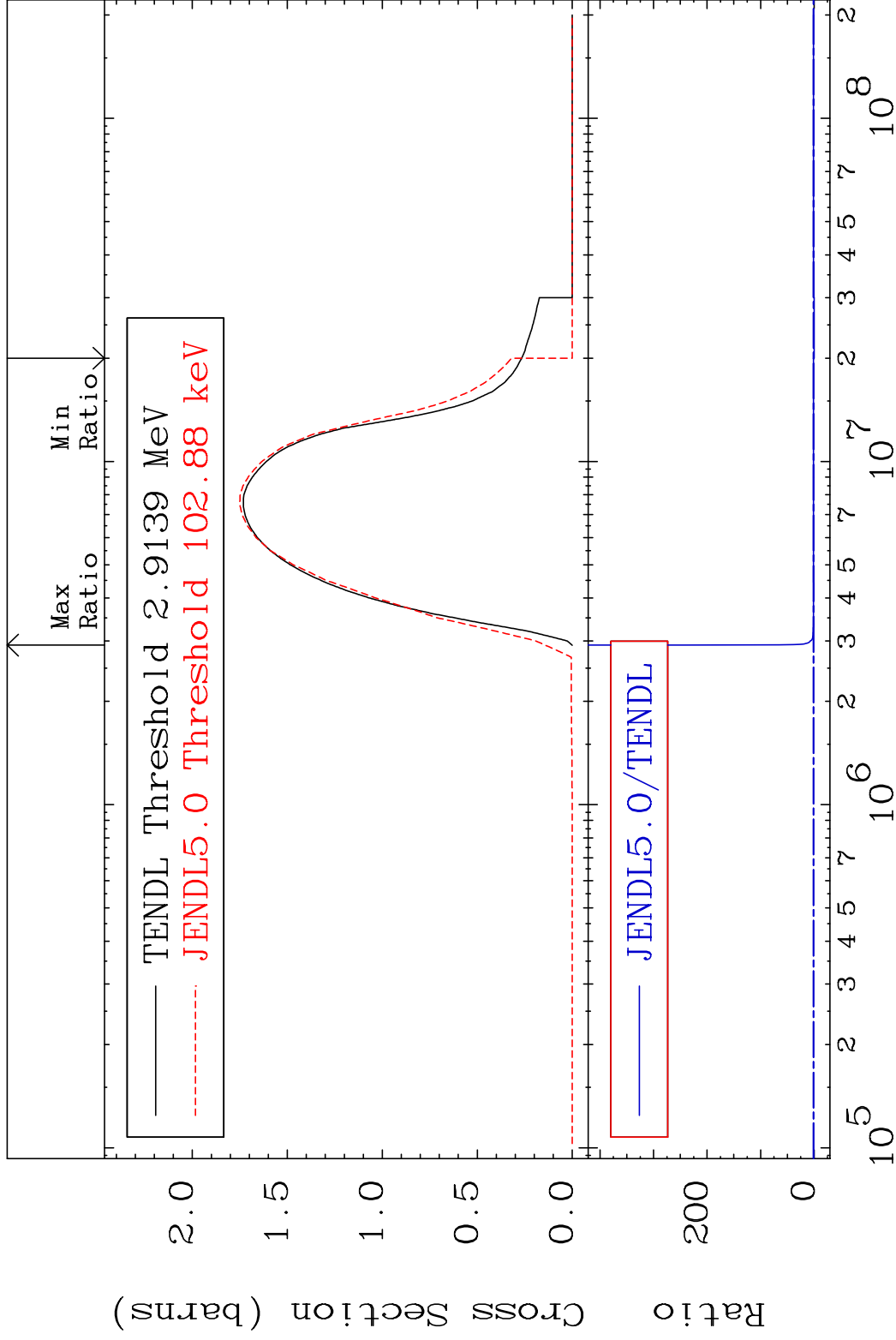


MAT 4119

(n, n') Continuum

41-Nb-91

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

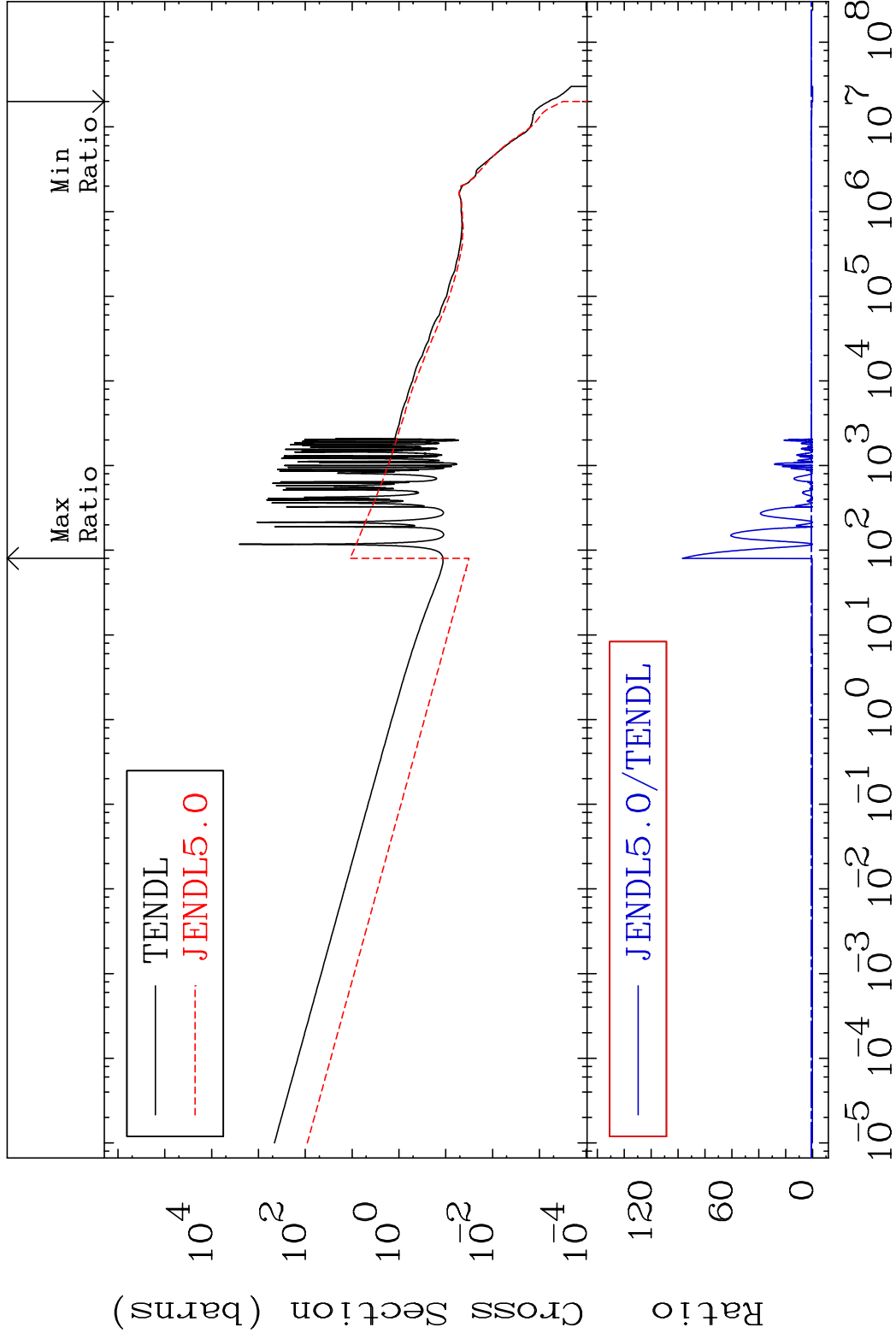
41-Nb-91

MAT 4119

(n, γ)

41-Nb-91

Cross Section -100.0 To 9583. %



39

Incident Energy (eV)

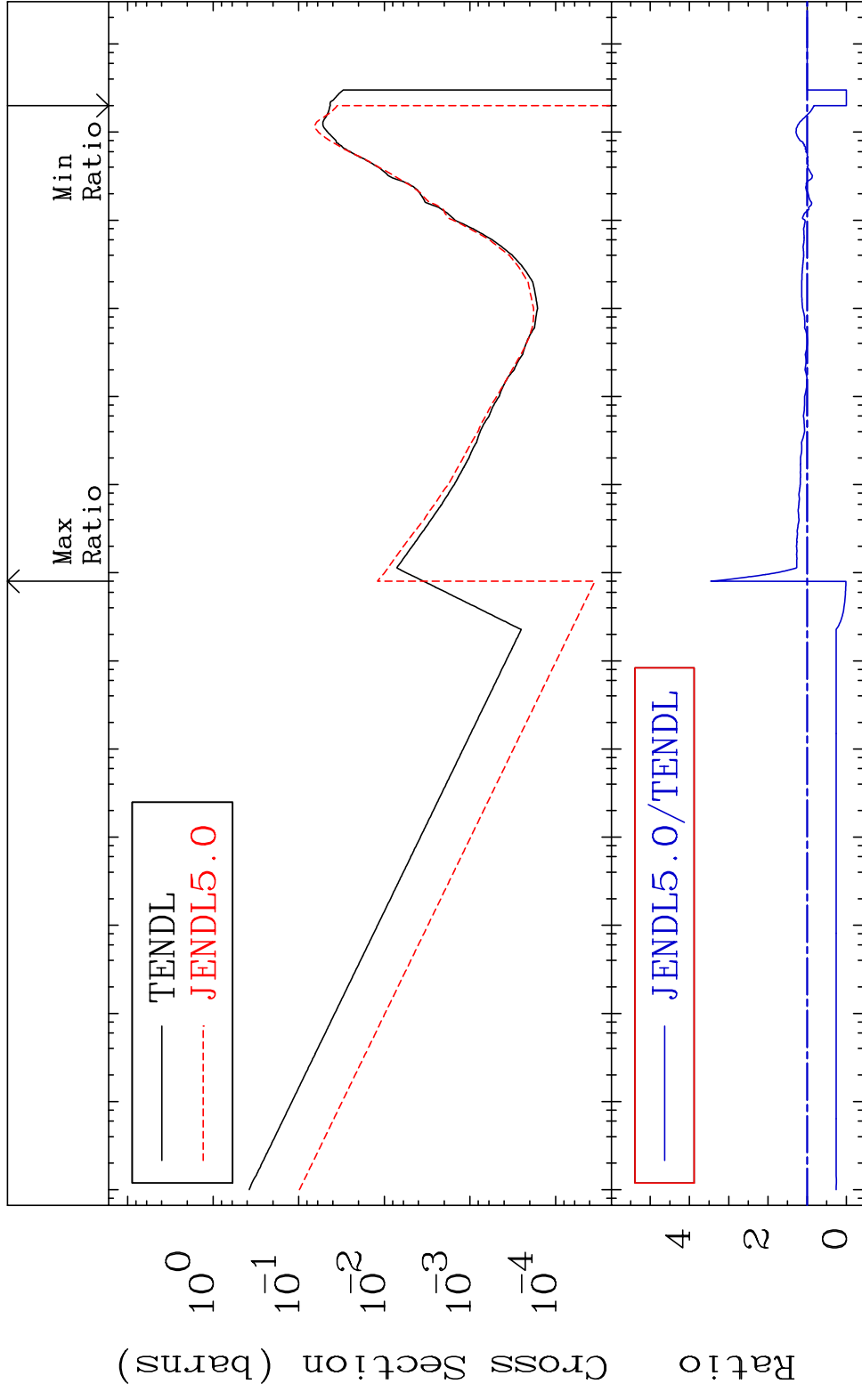
41-Nb-91

MAT 4119

(n, p)

41-Nb-91

Cross Section -100.0 To 245.9 %

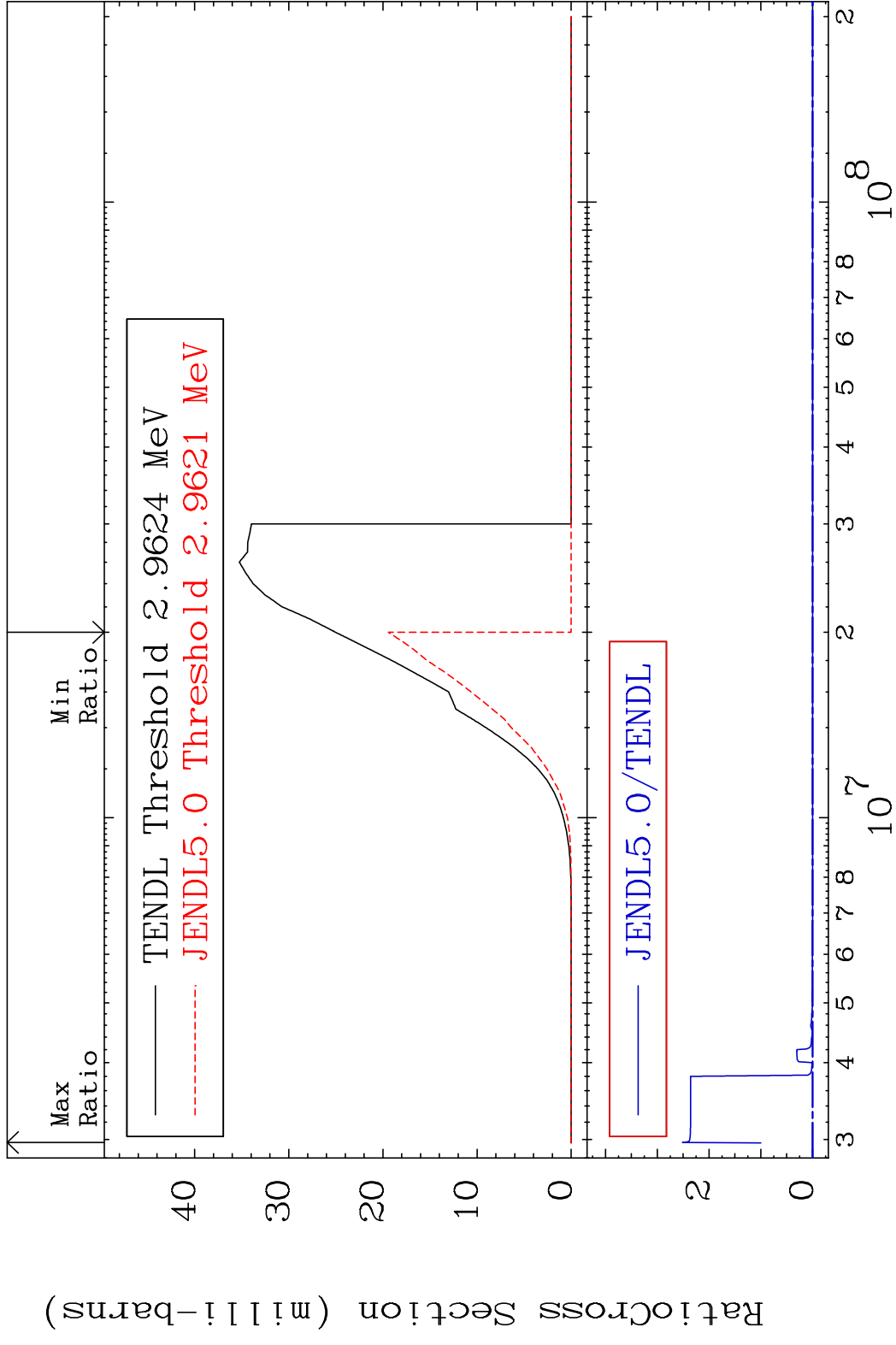


40

Incident Energy (eV)

41-Nb-91

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



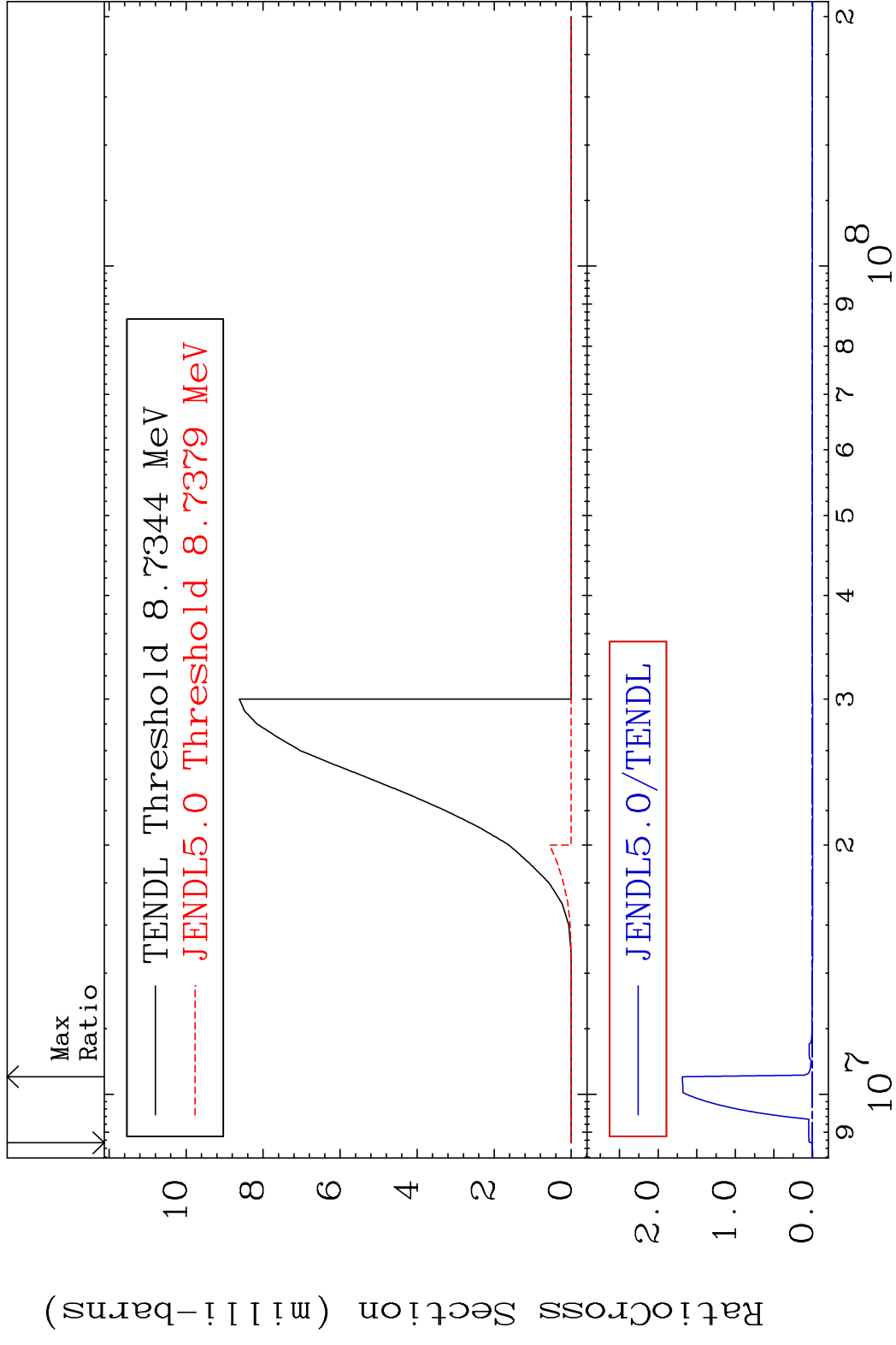
41 Incident Energy (eV) 41-Nb-91

MAT 4119

(n, t)

41-Nb-91

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

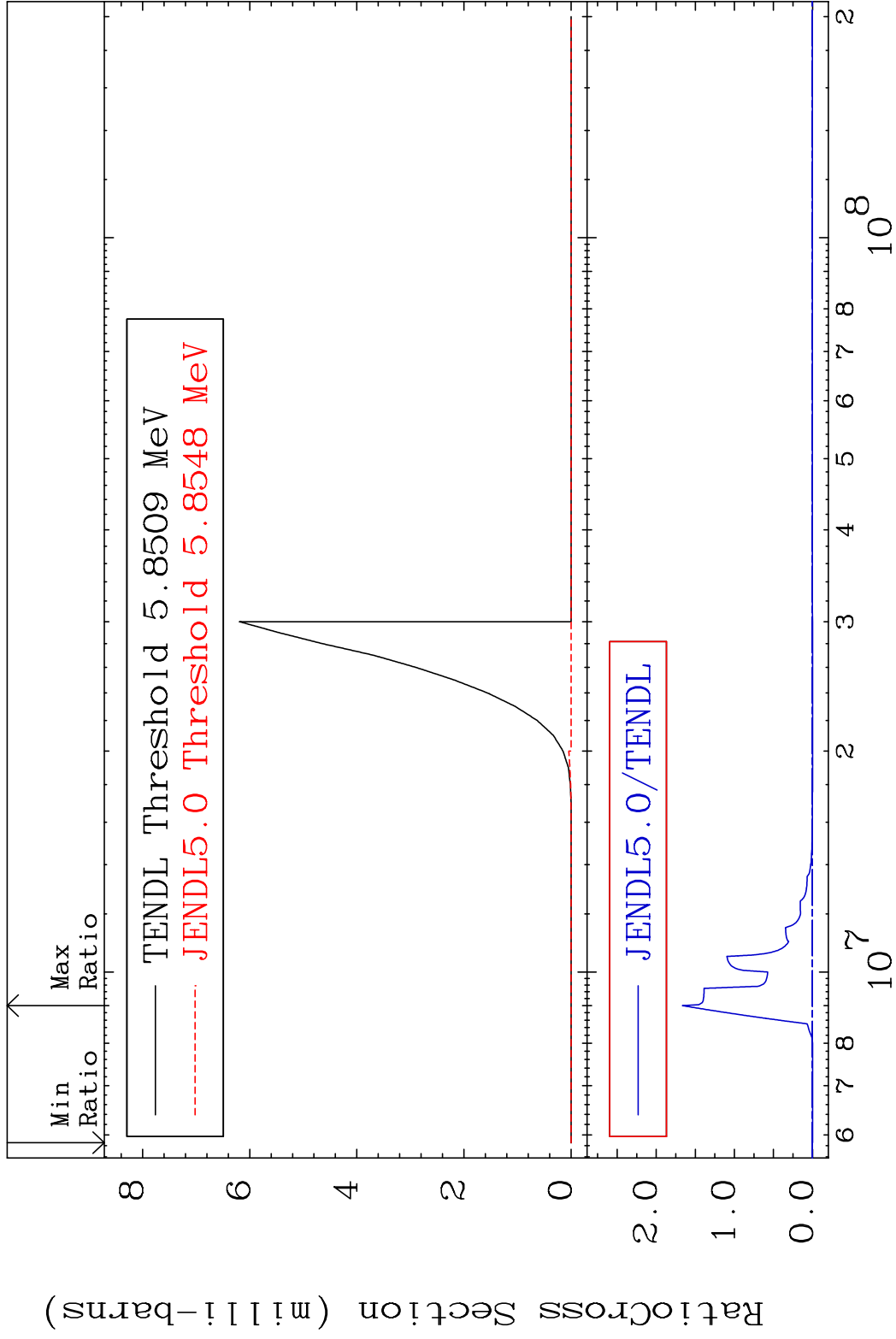
41-Nb-91

MAT 4119

(n, He-3)

41-Nb-91

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

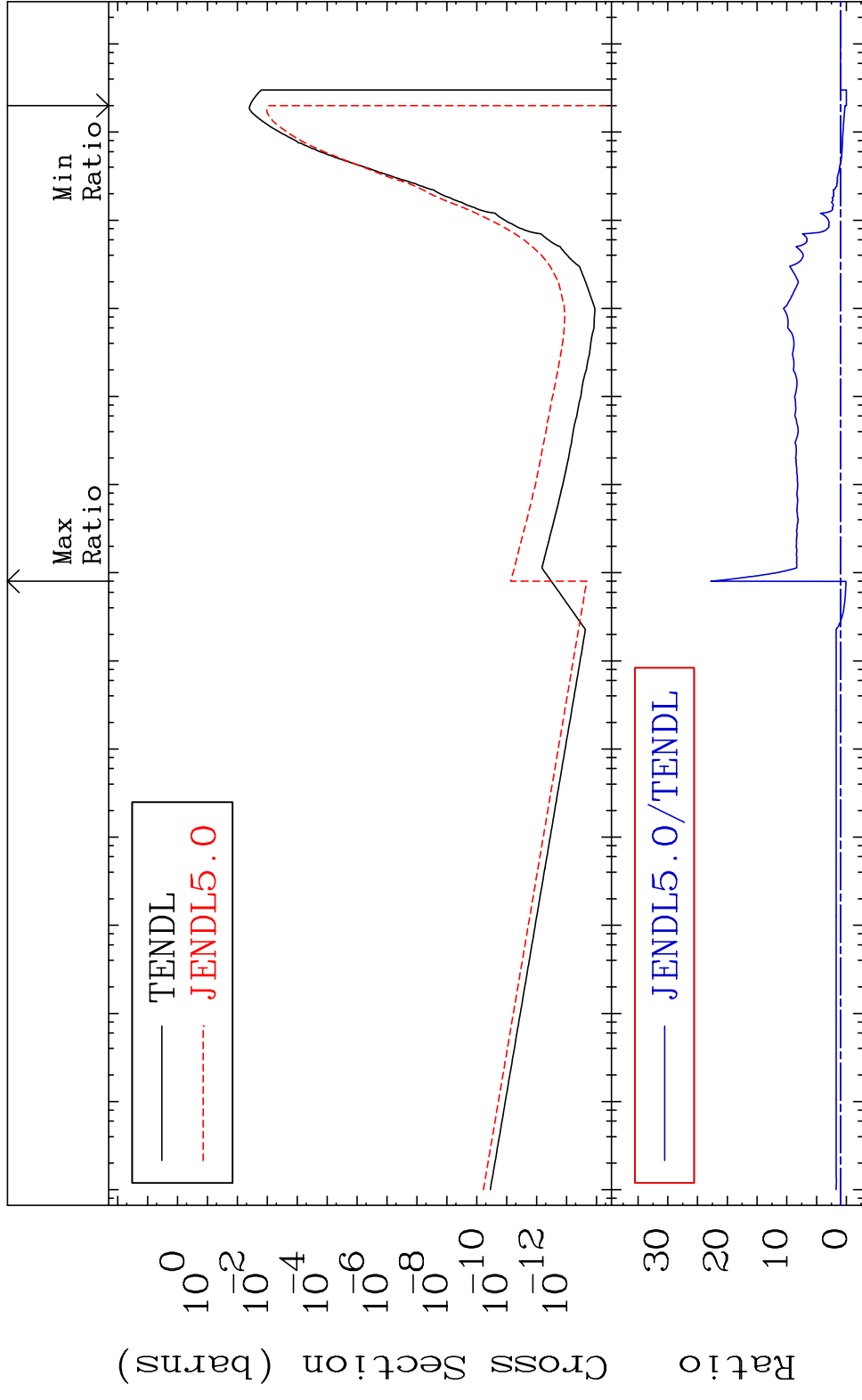
41-Nb-91

MAT 4119

41-Nb-91

(n, α)

Cross Section -100.0 To 2179. %



44

Incident Energy (eV)

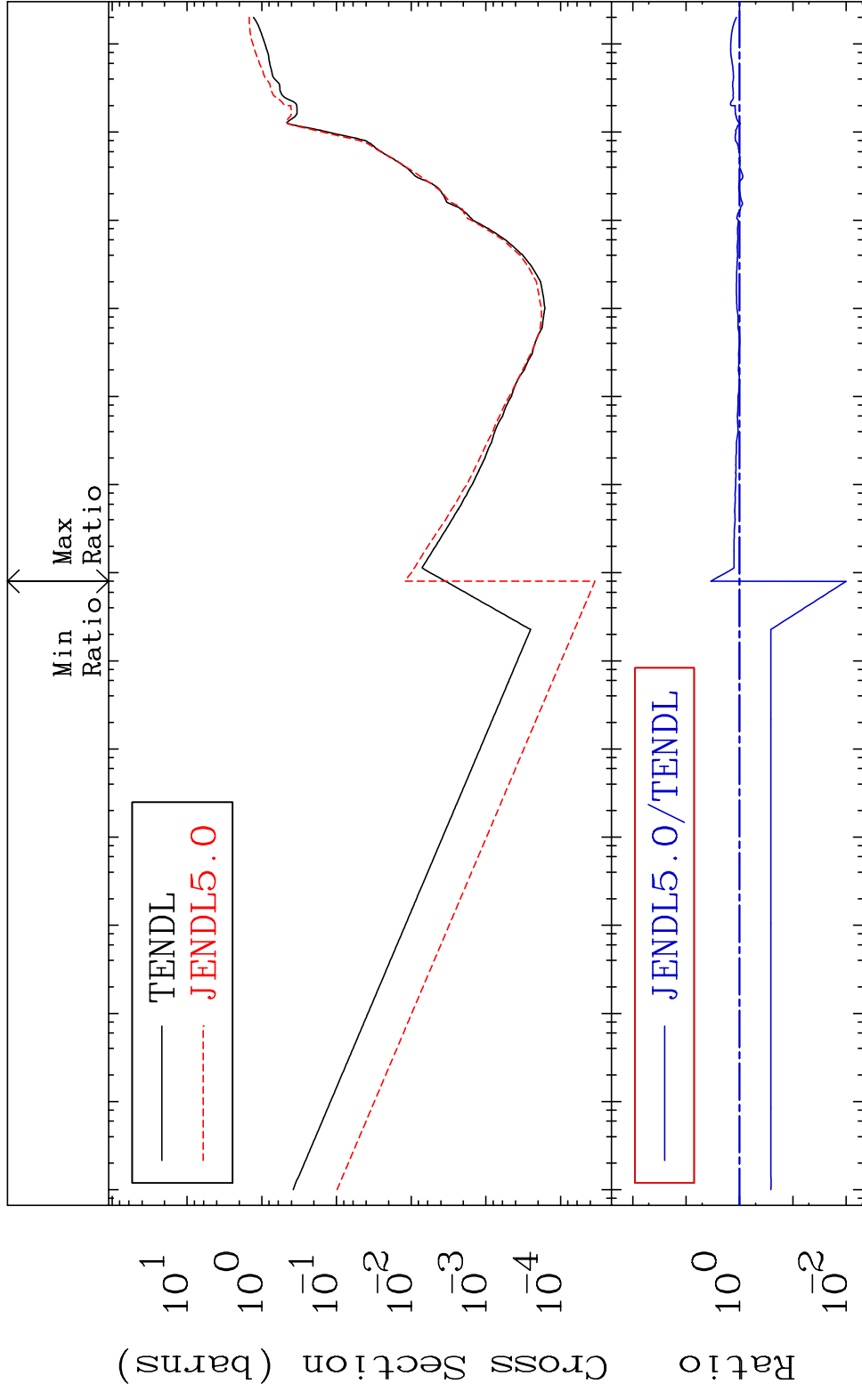
41-Nb-91

MAT 4119

Hydrogen Production

41-Nb-91

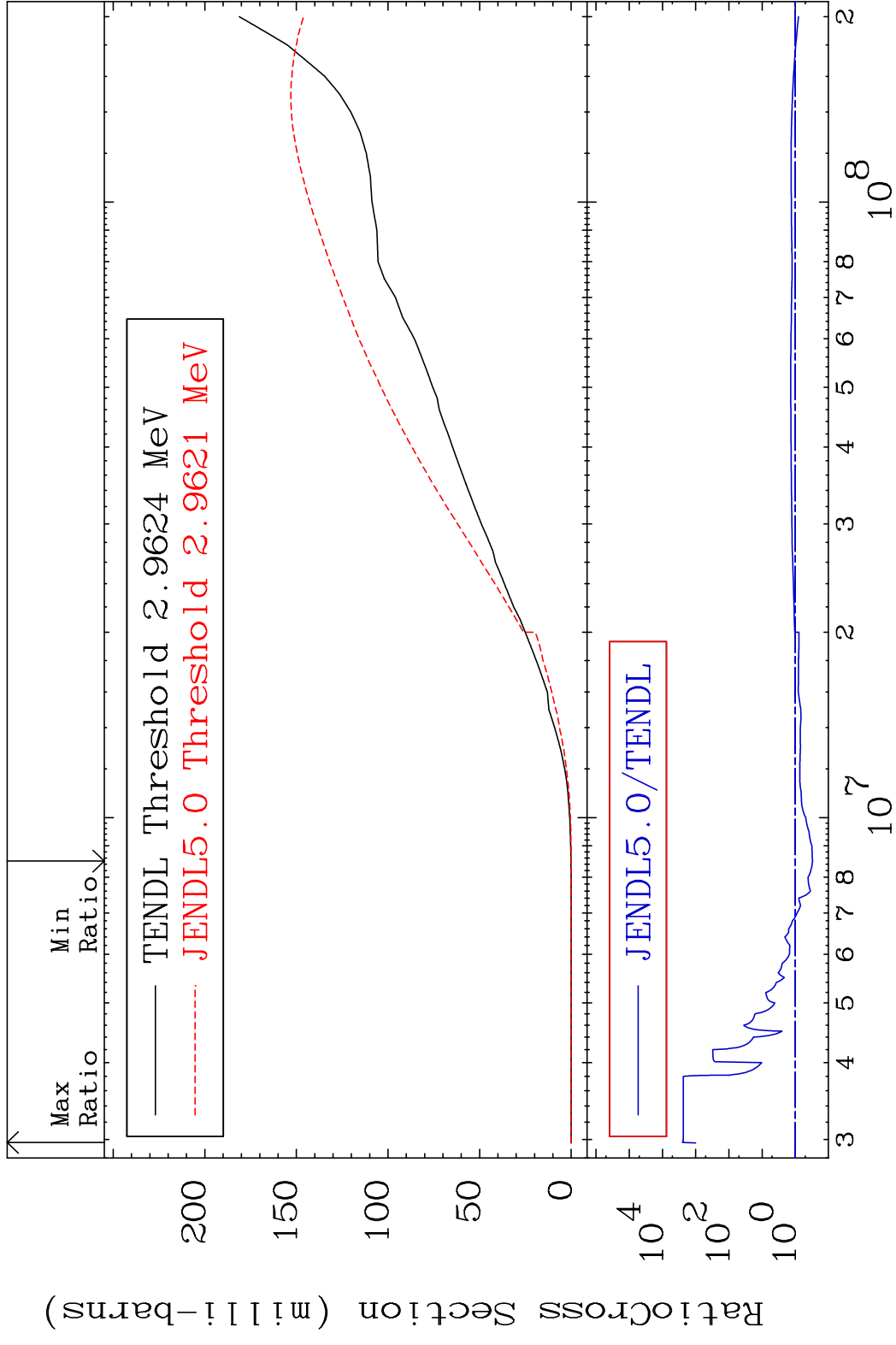
Cross Section -99.00 To 245.9 %



45

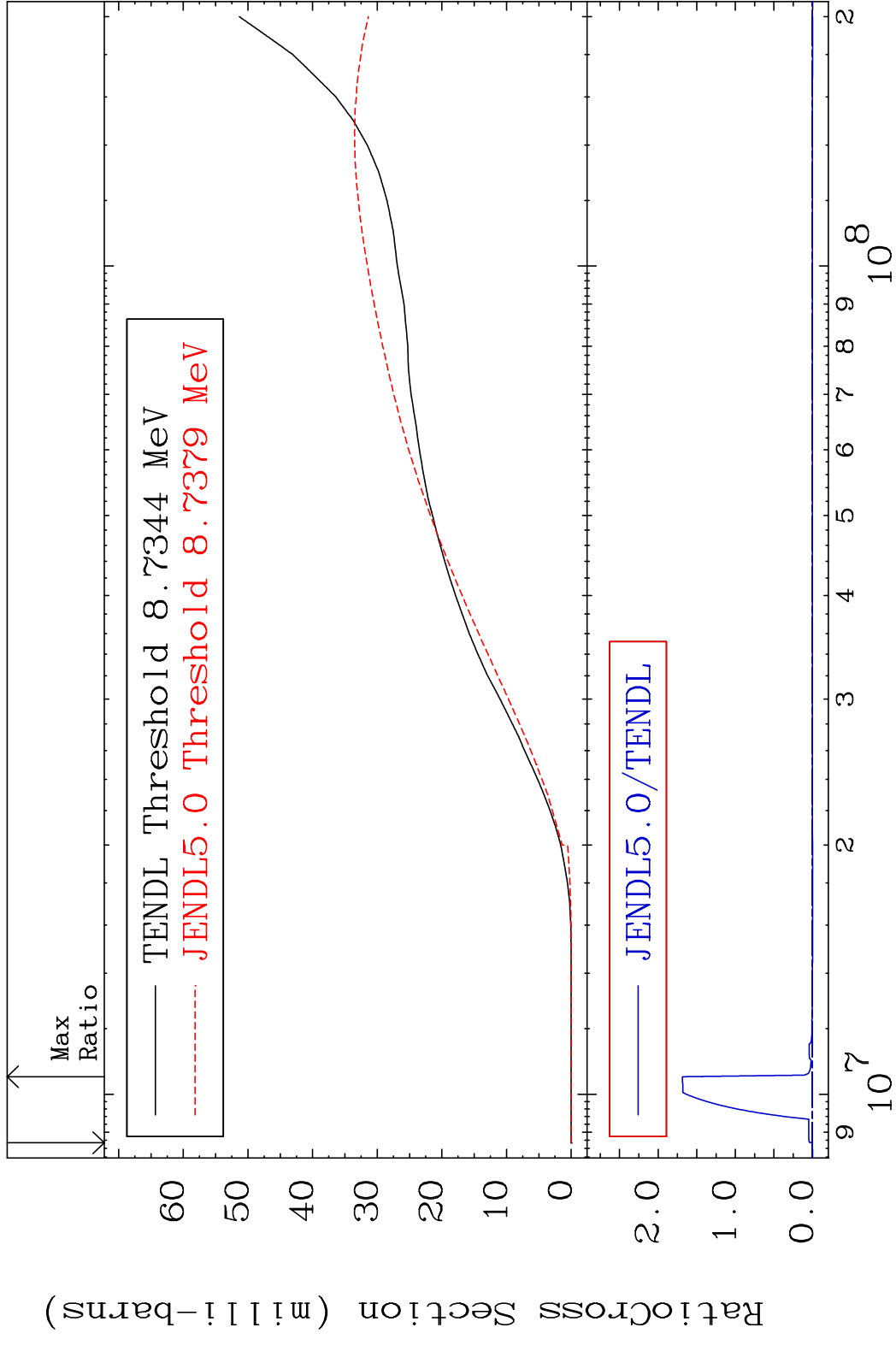
Incident Energy (eV)

41-Nb-91



MAT 4119

Tritium Production 41-Nb-91
Cross Section -100.0 To 9999. %



47

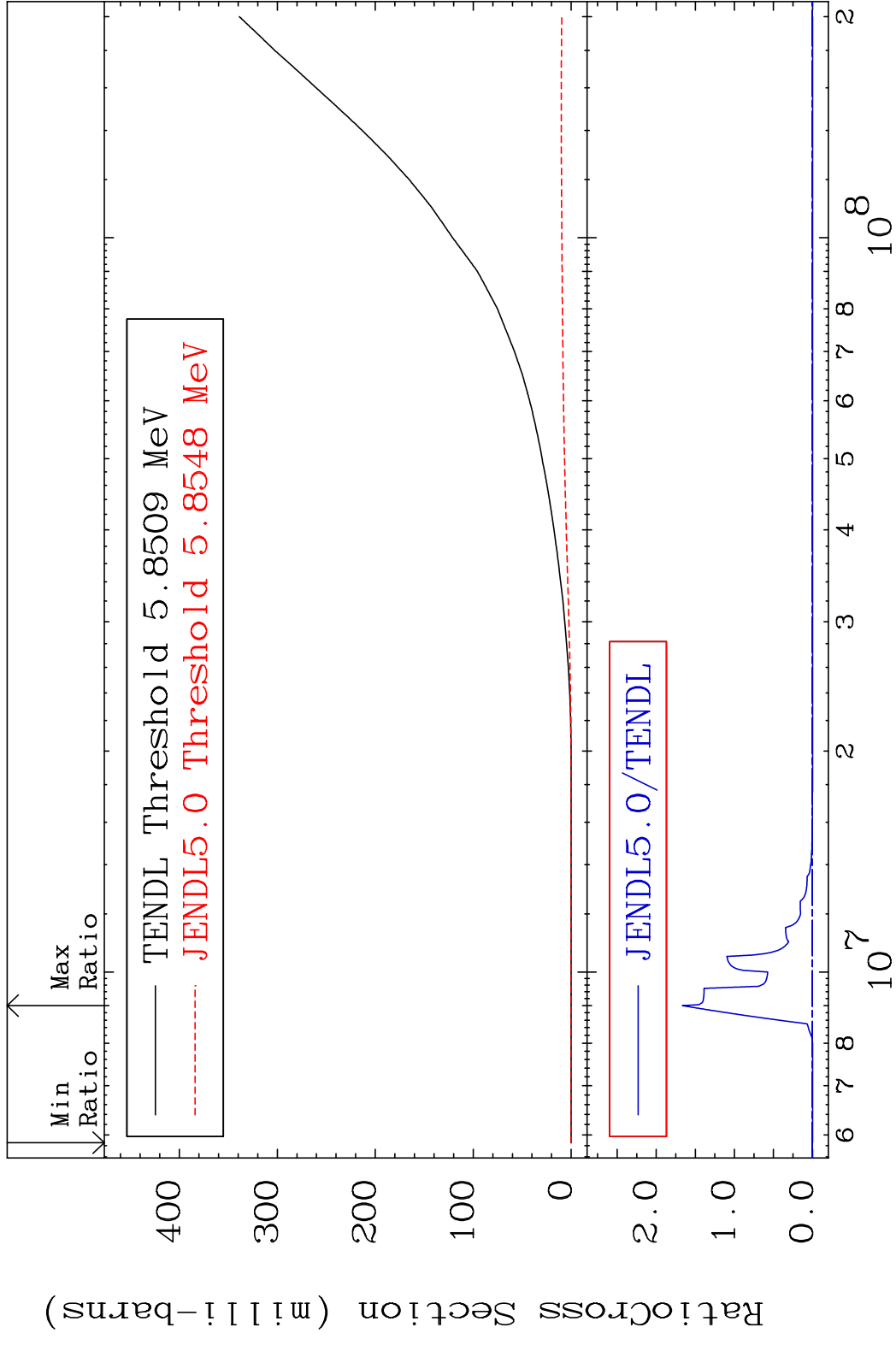
Incident Energy (eV) 41-Nb-91

MAT 4119

He-3 Production

41-Nb-91

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

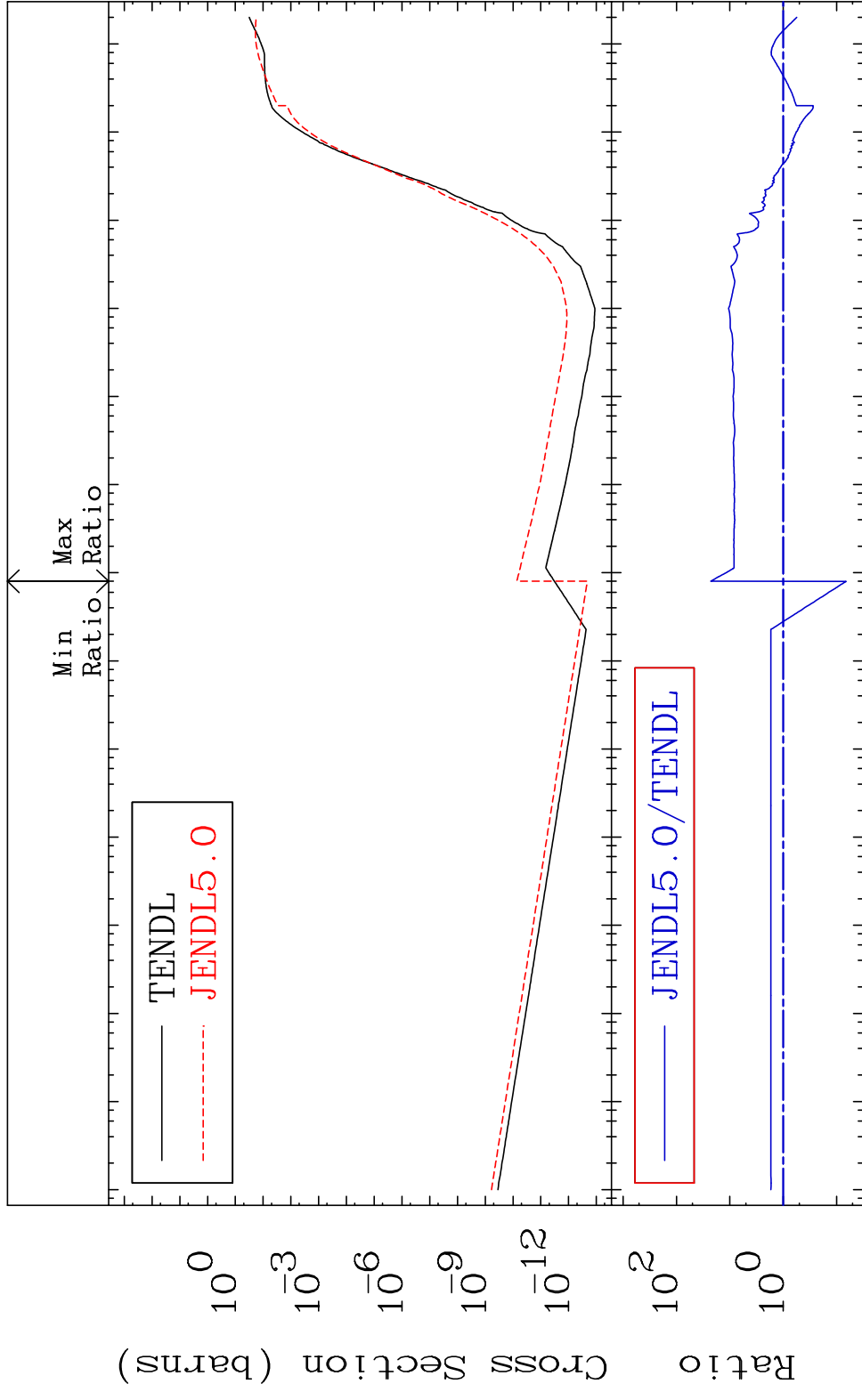
41-Nb-91

MAT 4119

He-4 Production

41-Nb-91

Cross Section -93.44 To 2179. %

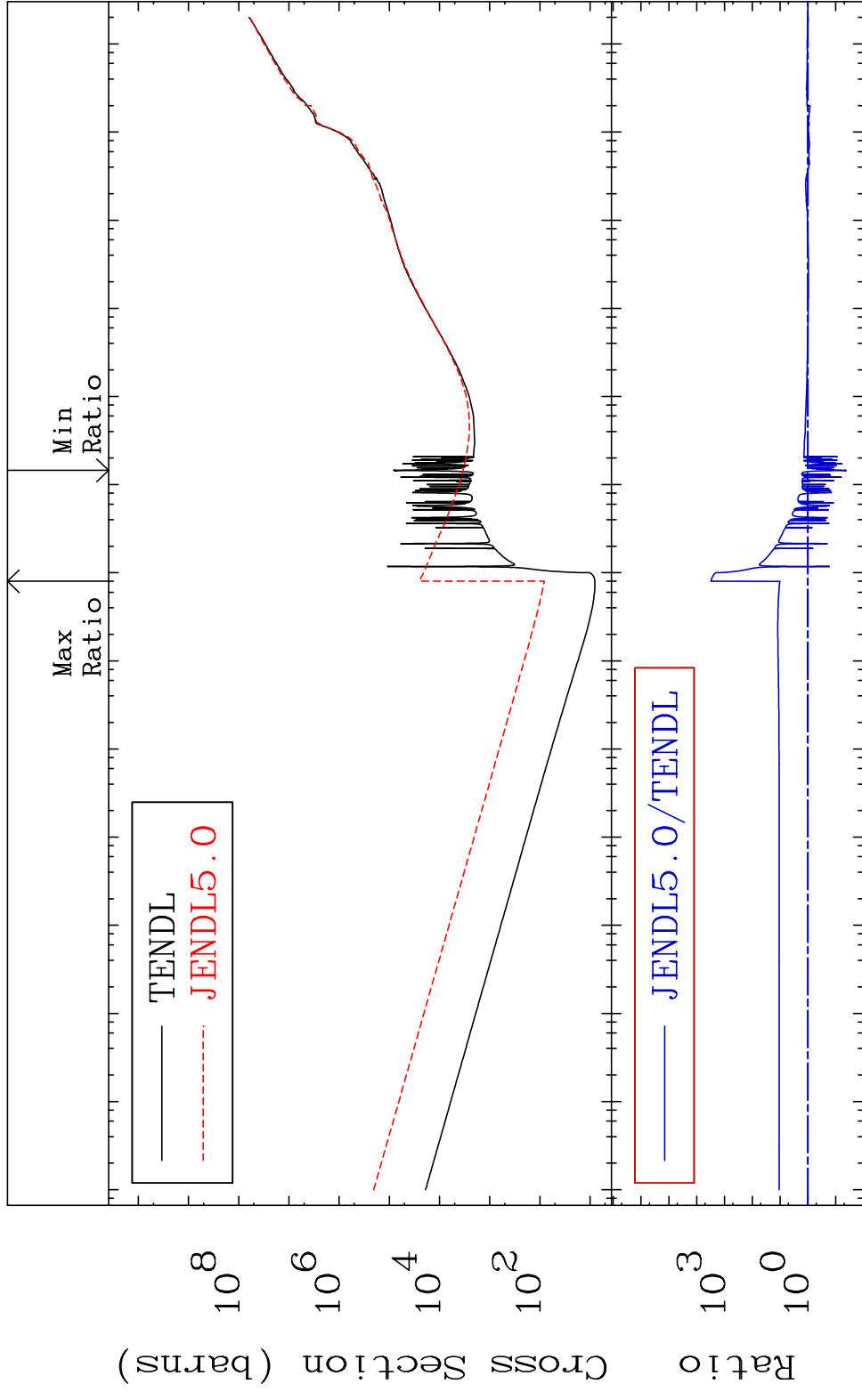


49

Incident Energy (eV)

41-Nb-91

MAT 4119 Kerma total (eV-barns) 41-Nb-91
 Cross Section -95.83 To 9999. %



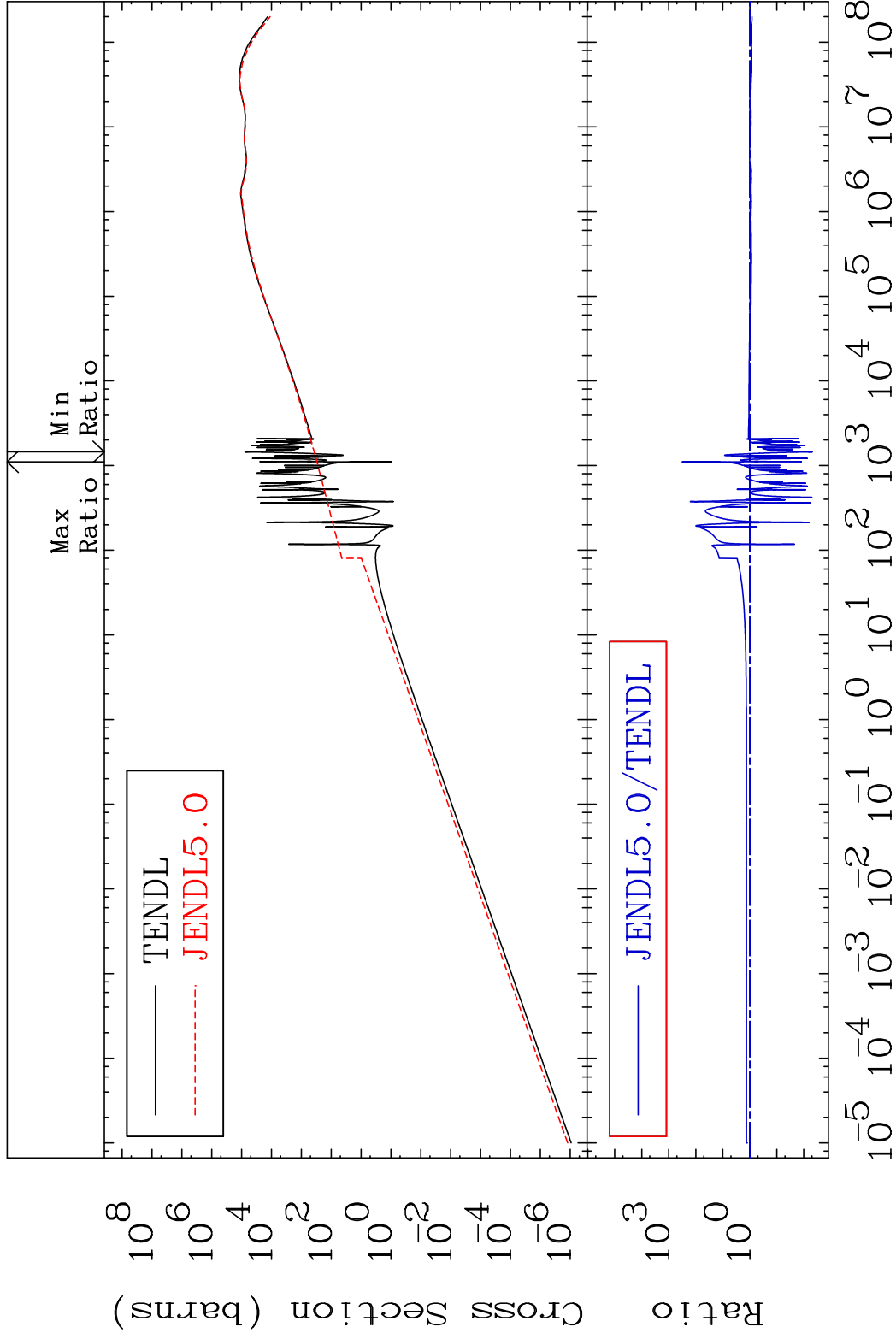
50 Incident Energy (eV) 41-Nb-91

MAT 4119

Kerma elastic

41-Nb-91

Cross Section -99.53 To 9999. %

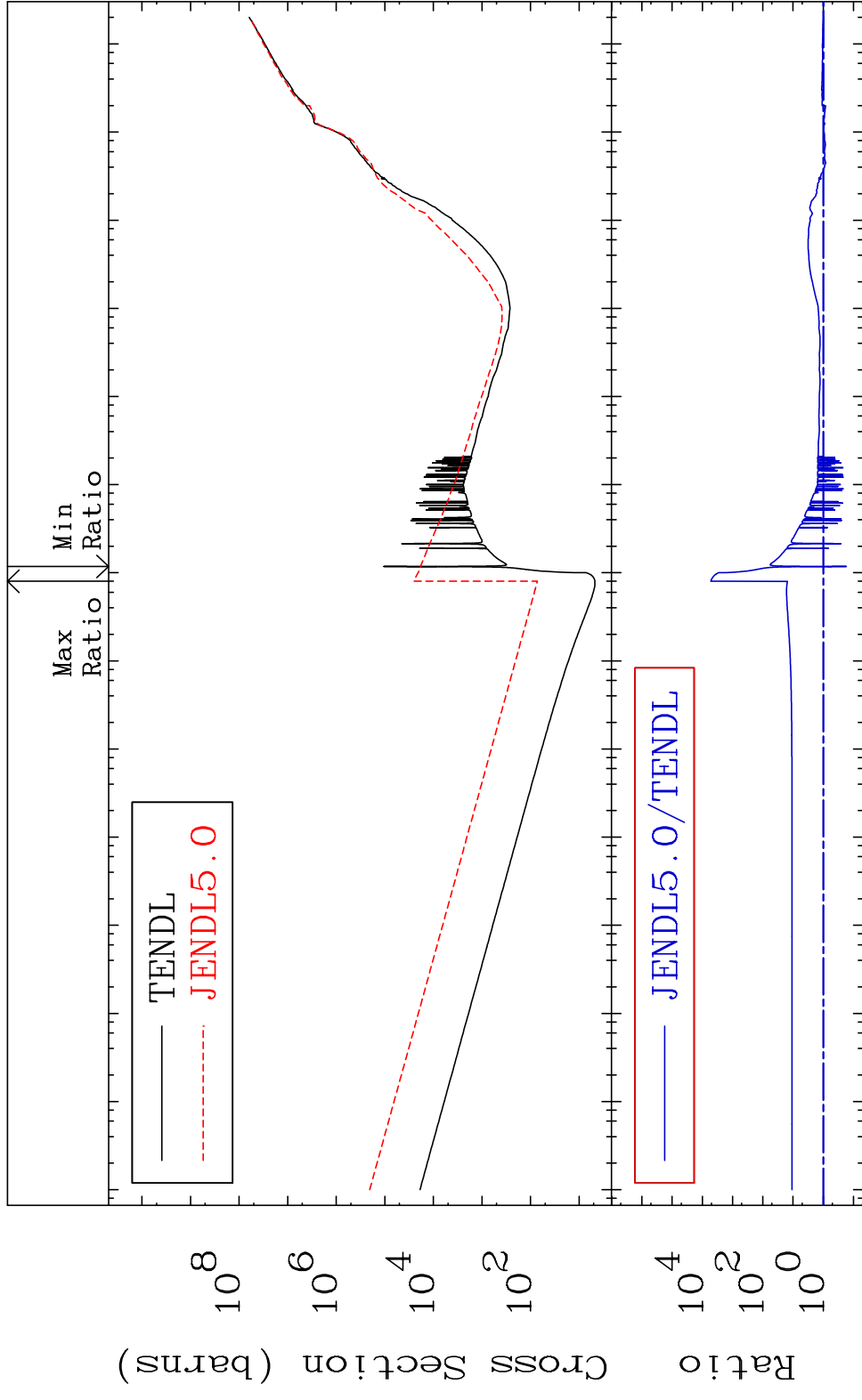


51

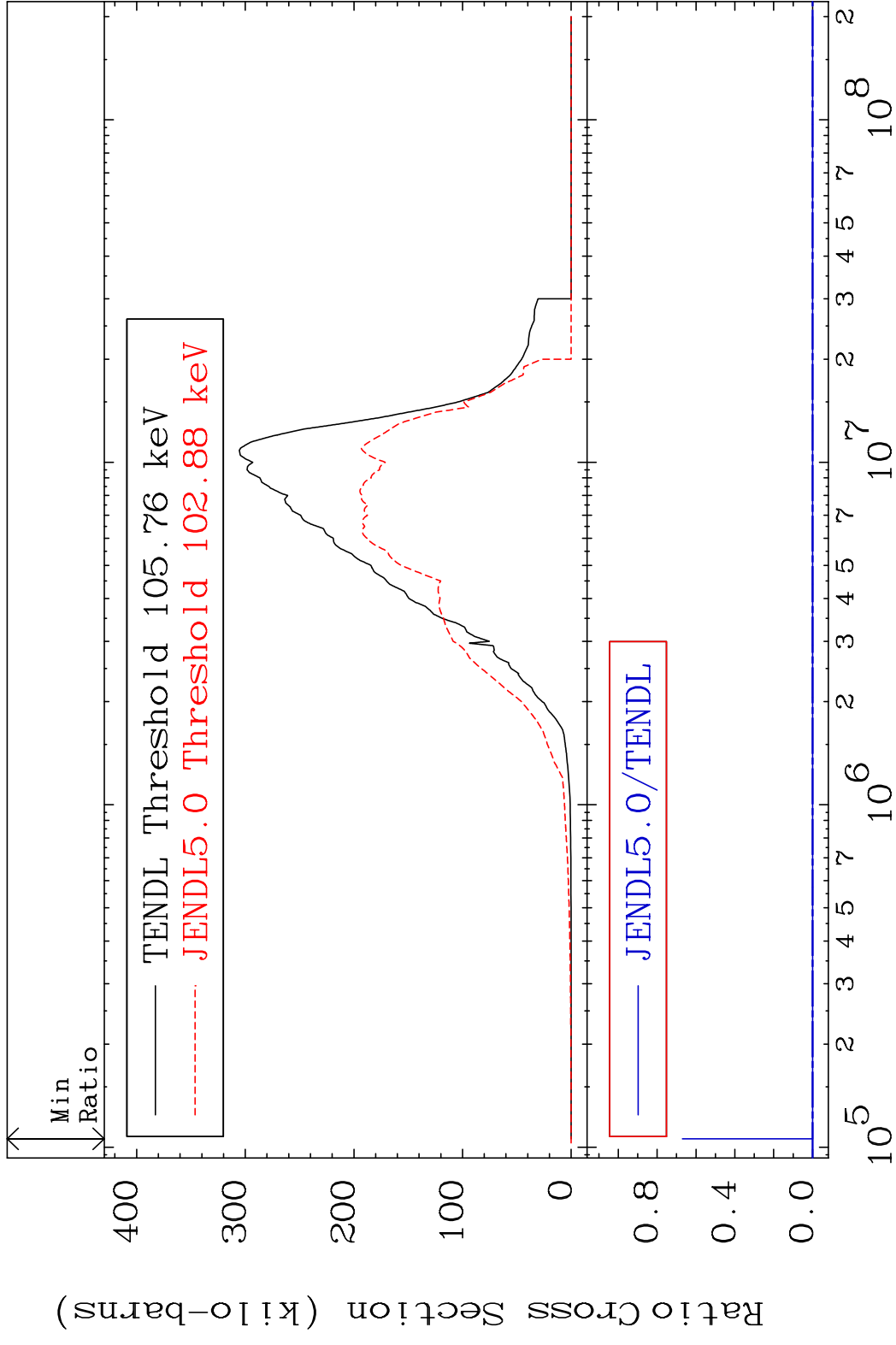
Incident Energy (eV)

41-Nb-91

MAT 4119 Kerma non-elastic (all but mt2) 41-Nb-91
 Cross Section -82.75 To 9999. %

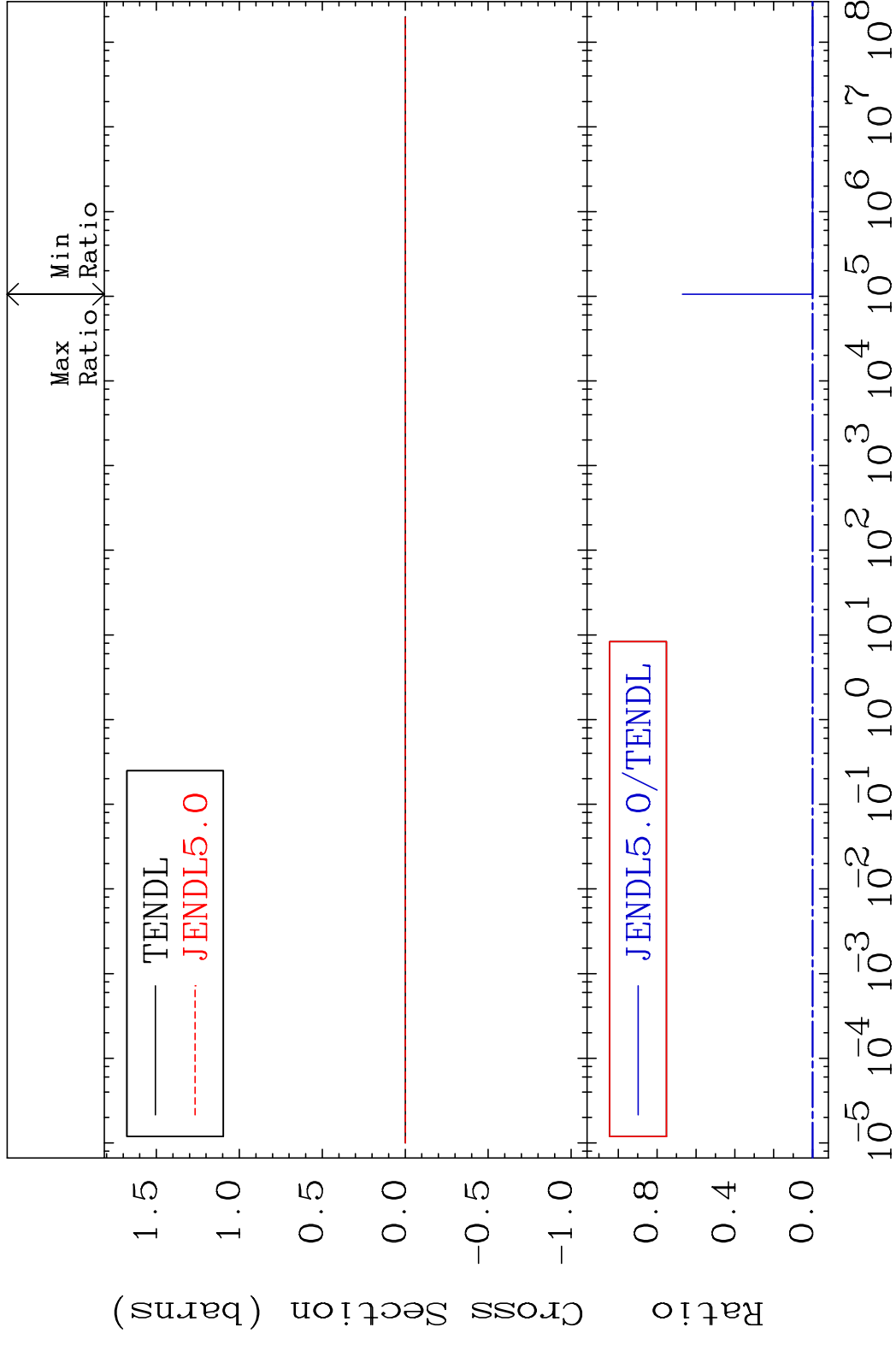


MAT 4119 Kerma inelastic (mt51-91) 41-Nb-91
Cross Section -9999. To 9999. %

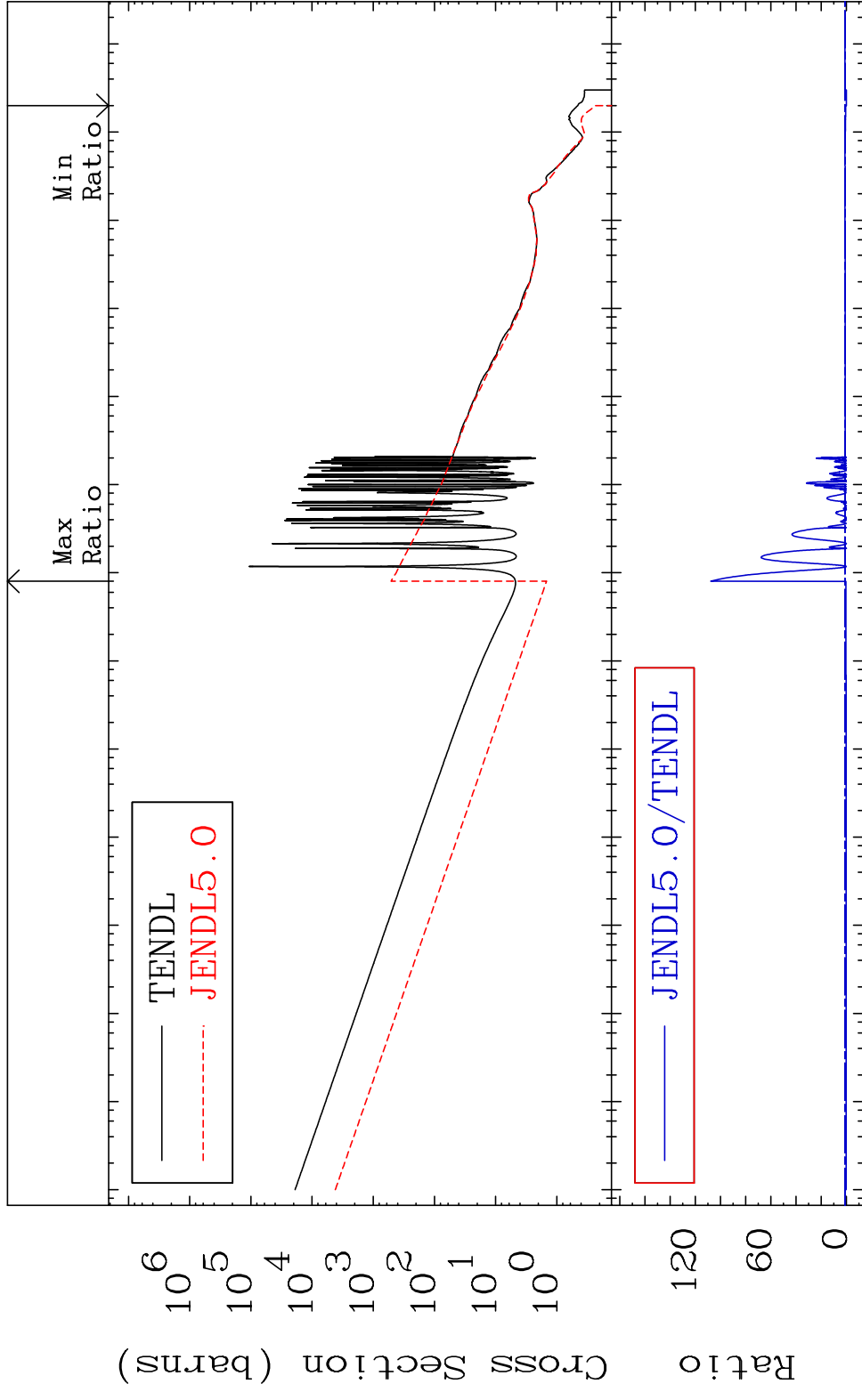


53 Incident Energy (eV) 41-Nb-91

MAT 4119 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-91
 Cross Section -9999. To 9999. %

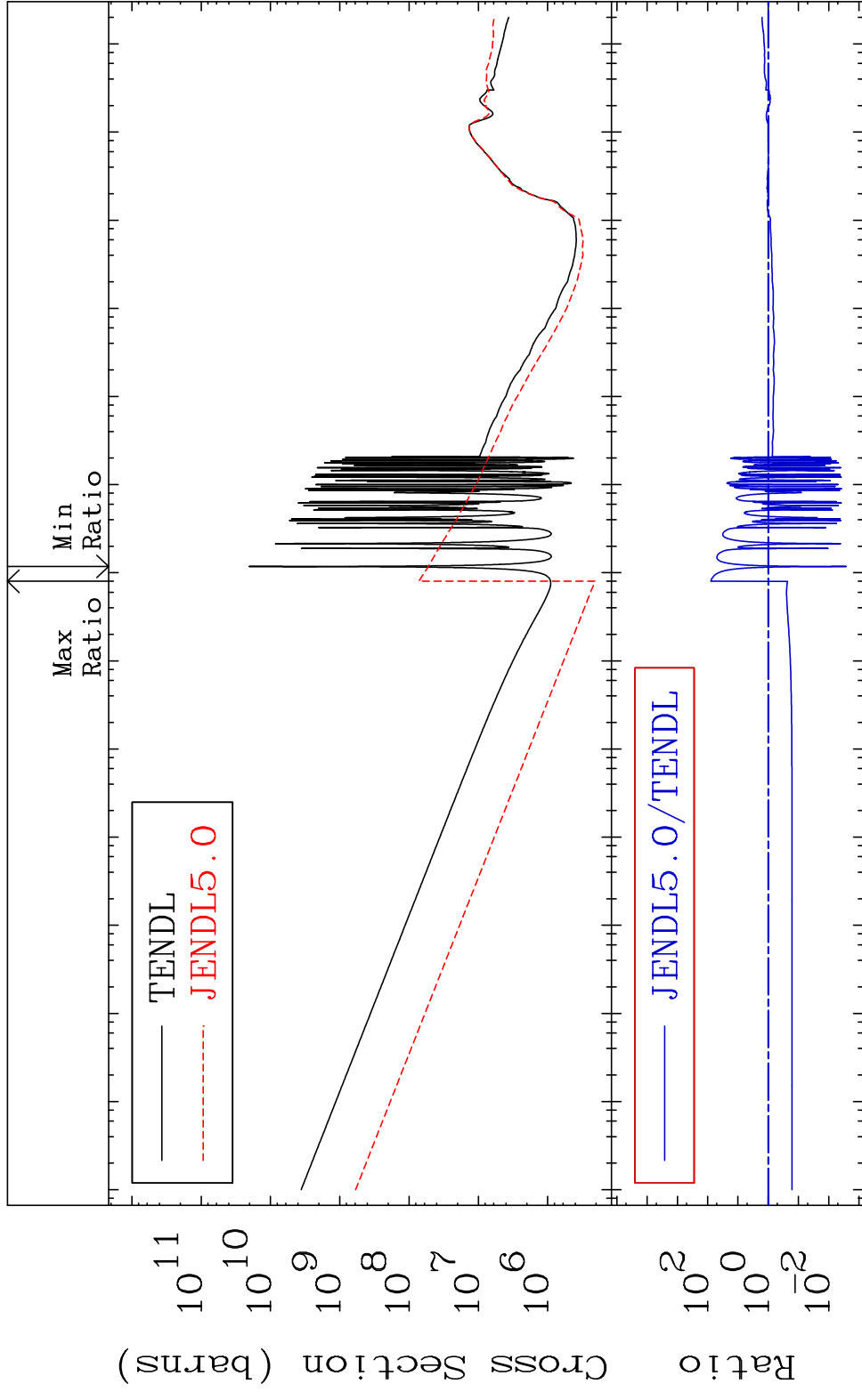


MAT 4119 Kerma capture (mt102) 41-Nb-91
 Cross Section -100.0 To 9999. %

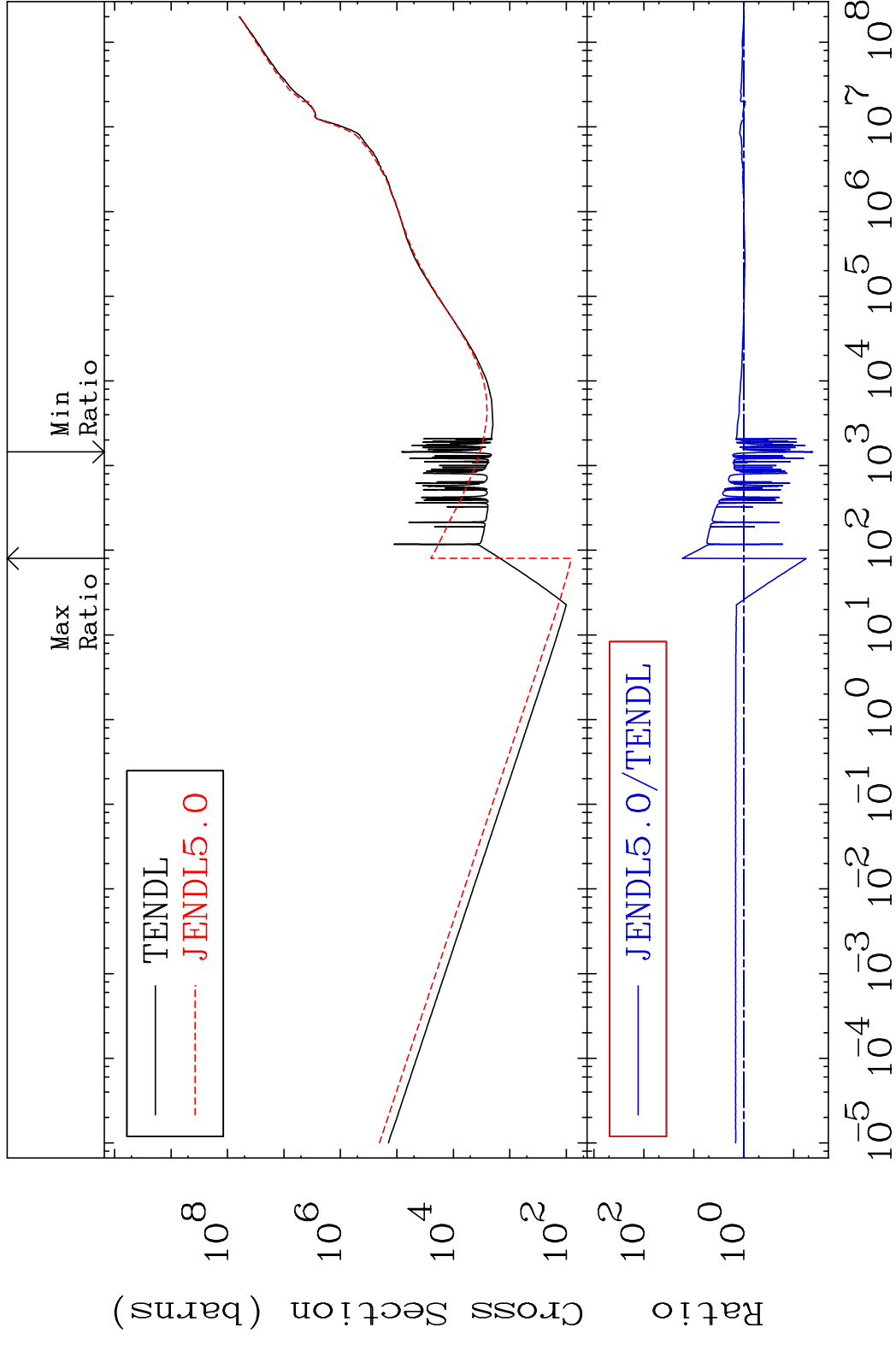


55 Incident Energy (eV) 41-Nb-91

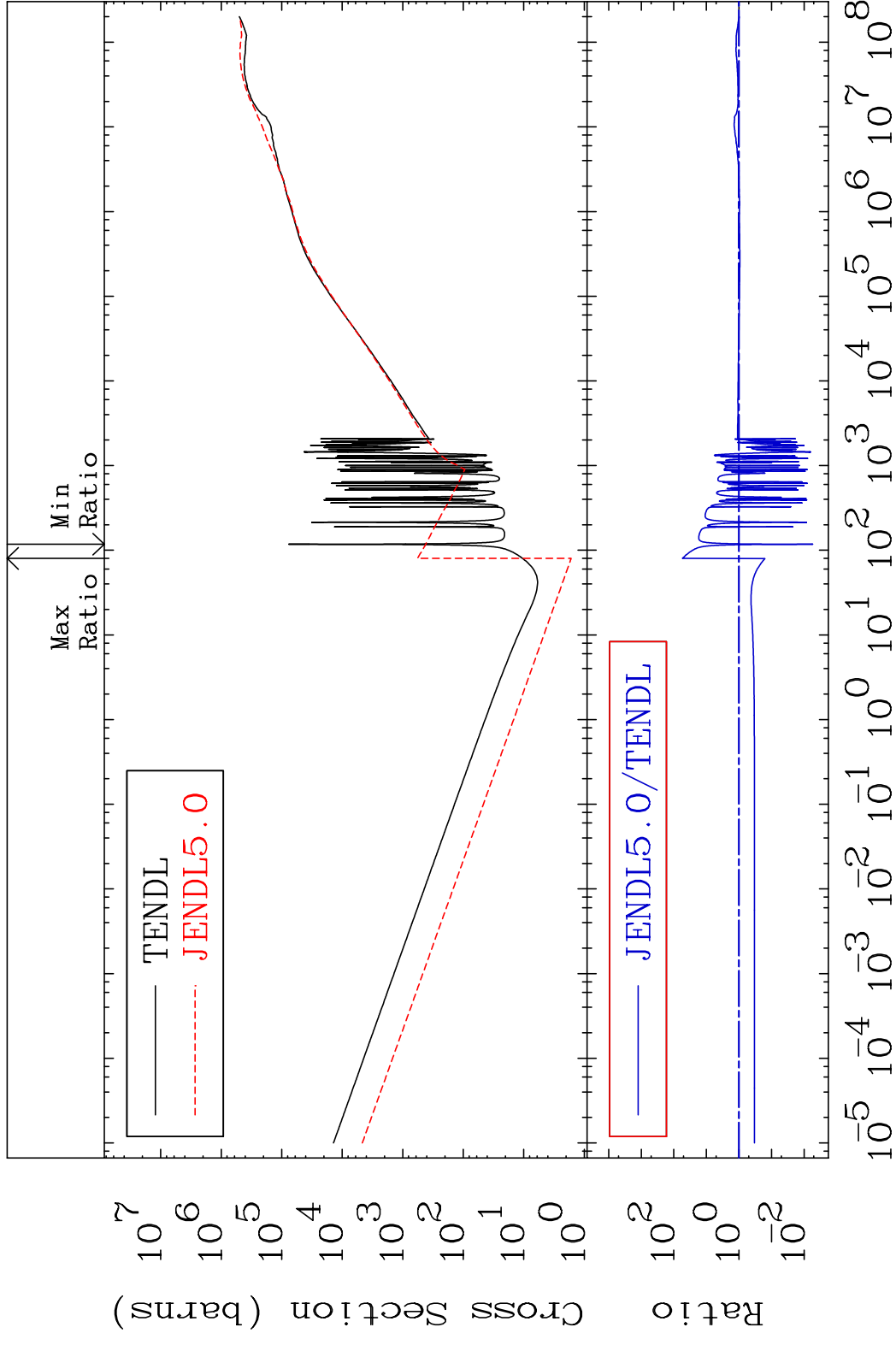
MAT 4119 Total photon (eV-barns) 41-Nb-91
 Cross Section -99.74 To 7830. %



MAT 4119 Total kinematic kerma (high limit) 41-Nb-91
 Cross Section -95.83 To 1590. %



MAT 4119 Dpa total (eV-barns) 41-Nb-91
 Cross Section -99.45 To 5370. %

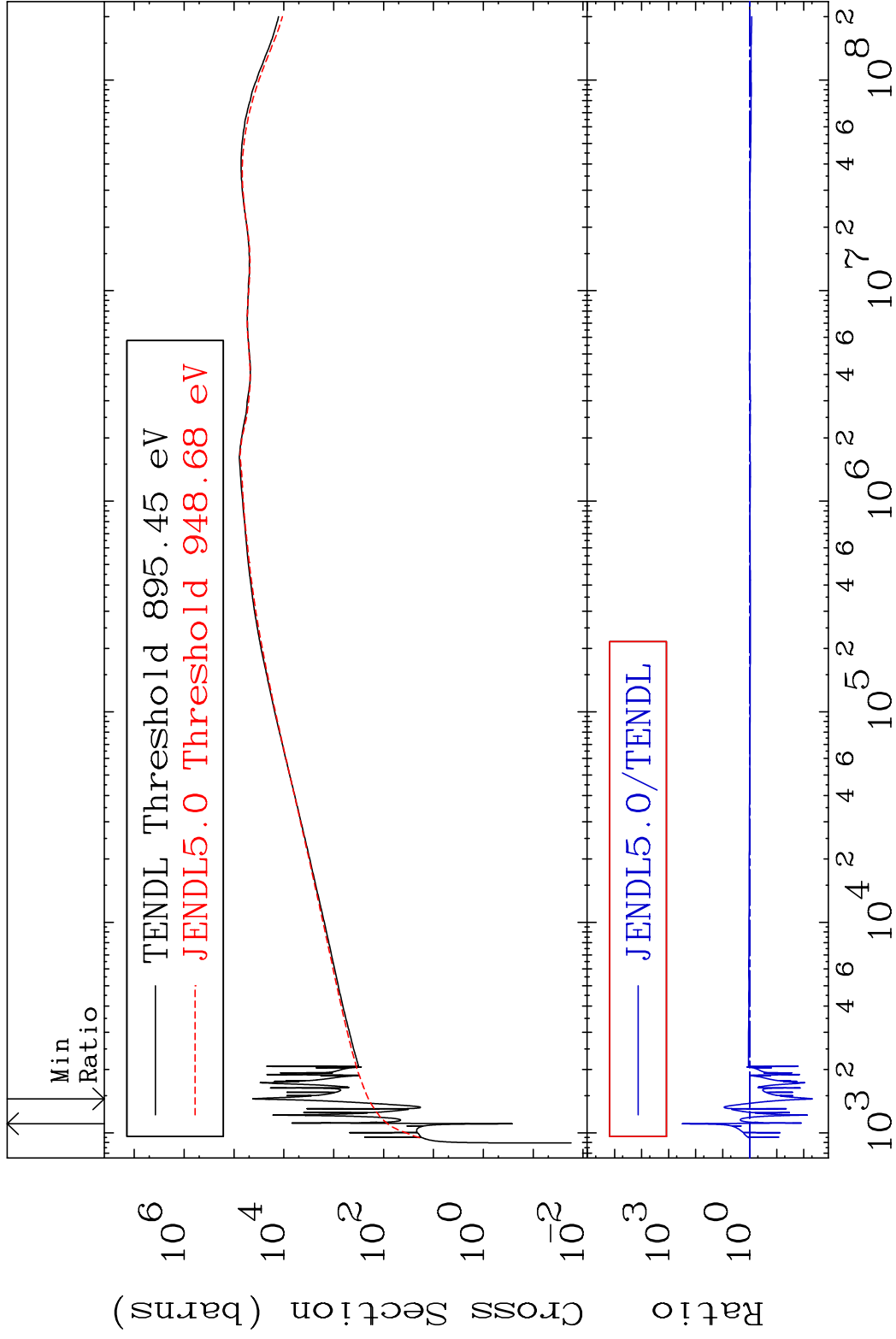


MAT 4119

Dpa elastic (mt2)

41-Nb-91

Cross Section -99.53 To 9999. %

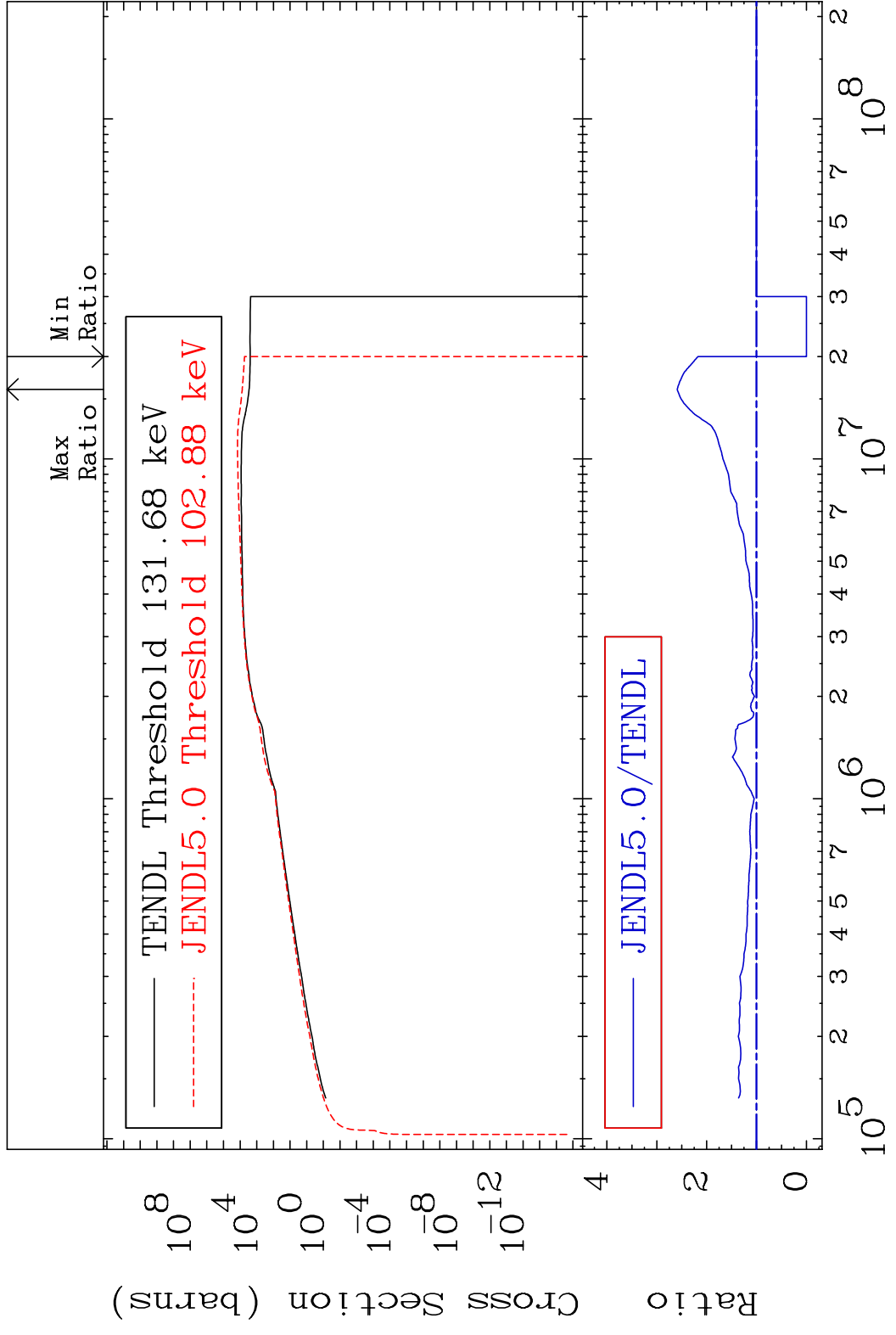


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Incident Energy (eV)

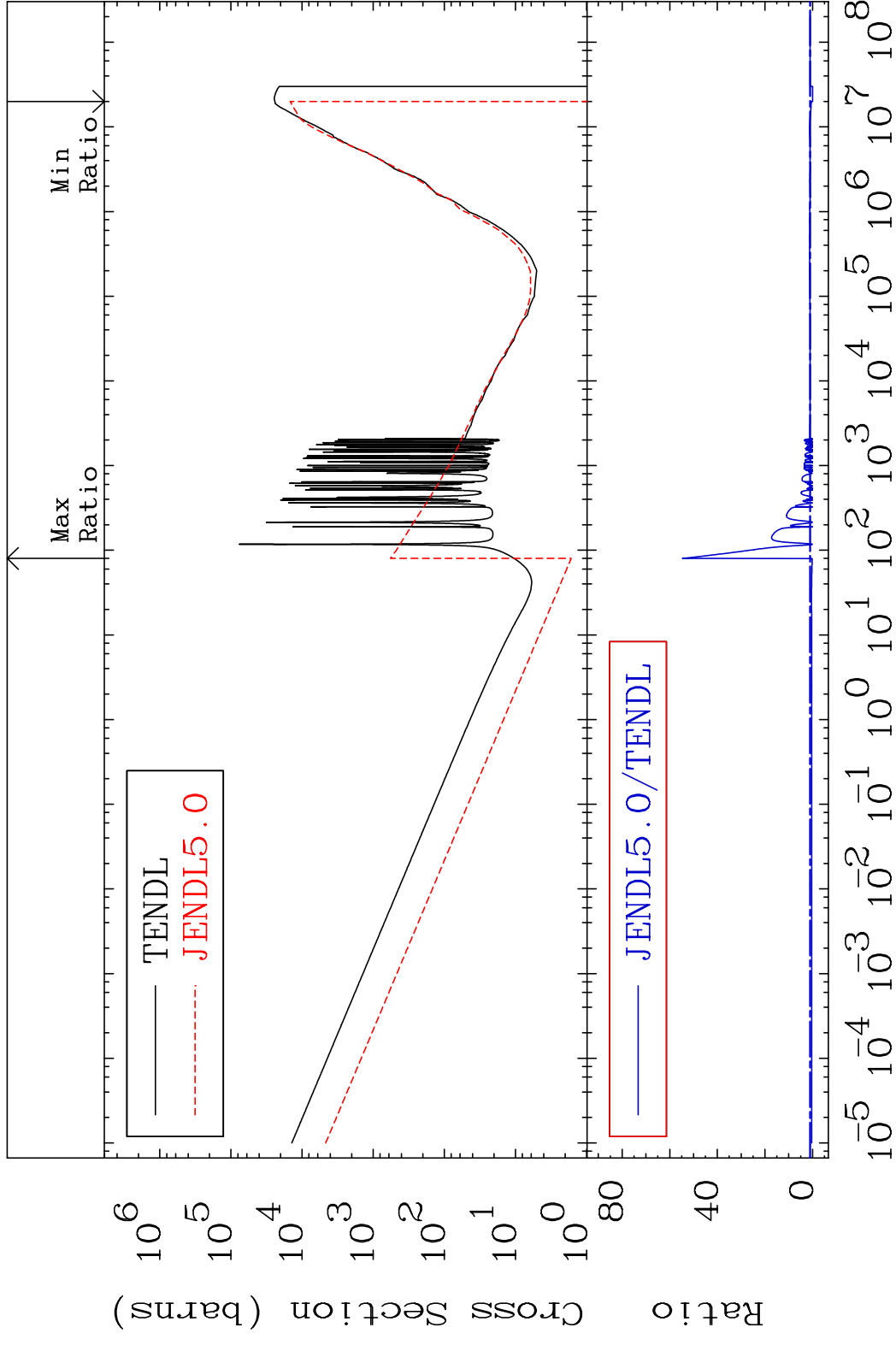
41-Nb-91

MAT 4119 Dpa inelastic (mt51-91) 41-Nb-91
 Cross Section -100.0 To 159.1 %



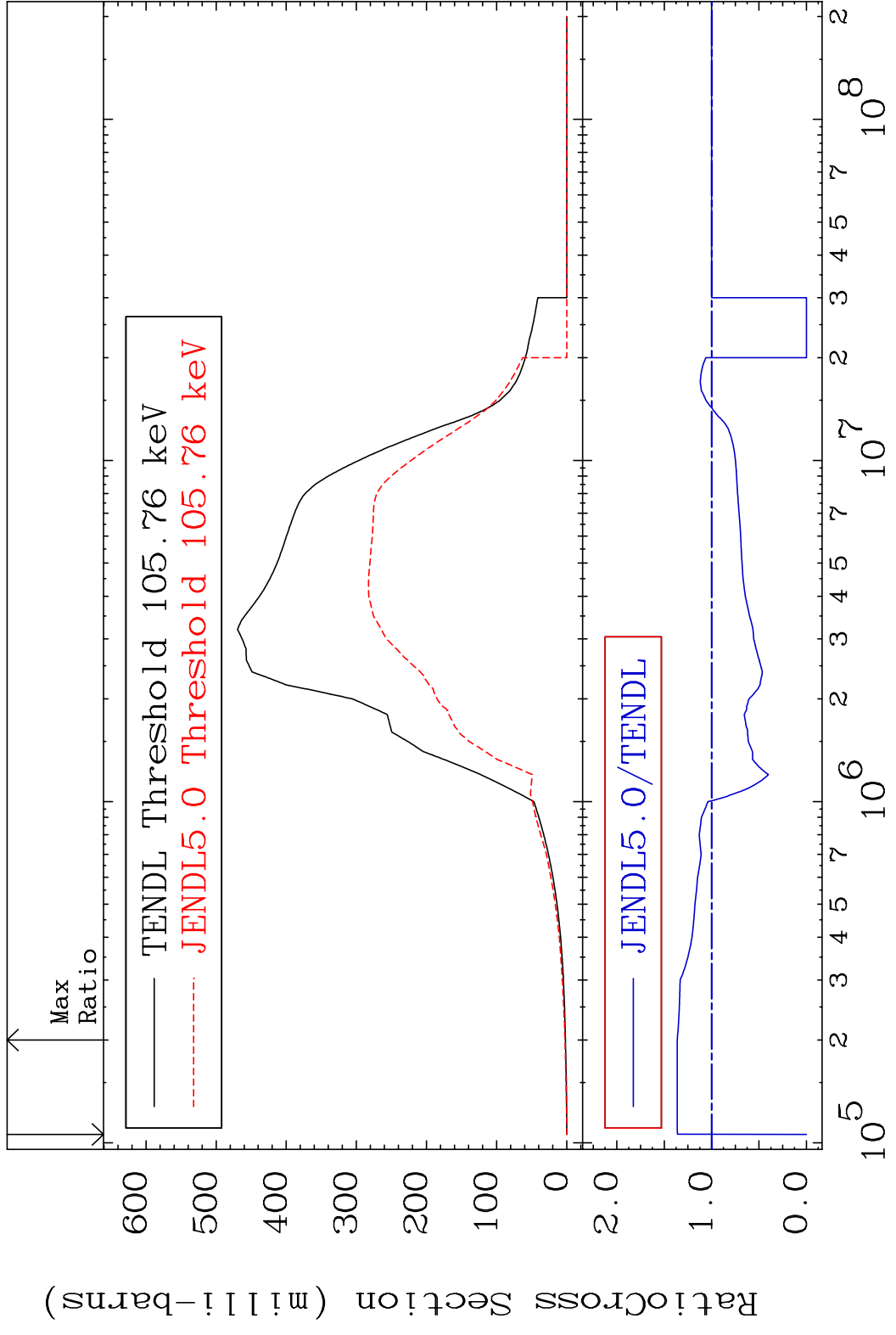
60 Incident Energy (eV) 41-Nb-91

MAT 4119 Dpa disappearance (mt102 -120) 41-Nb-91
 Cross Section -100.0 To 5370. %



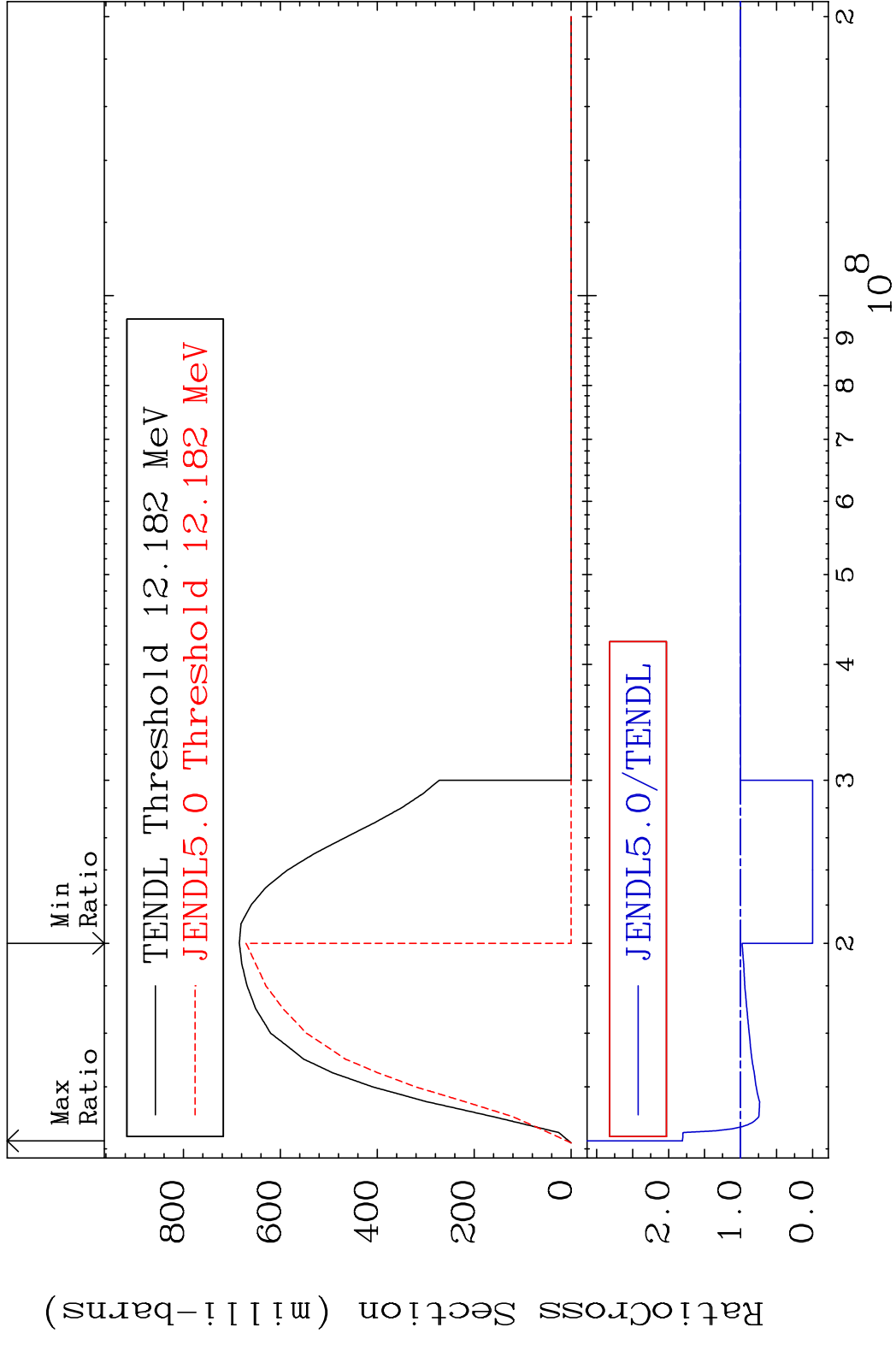
61 Incident Energy (eV) 41-Nb-91

MAT 4119 Inelastic:41-Nb-91m1 41-Nb-91
 Radionuclide Production Cross Section 36.38 %

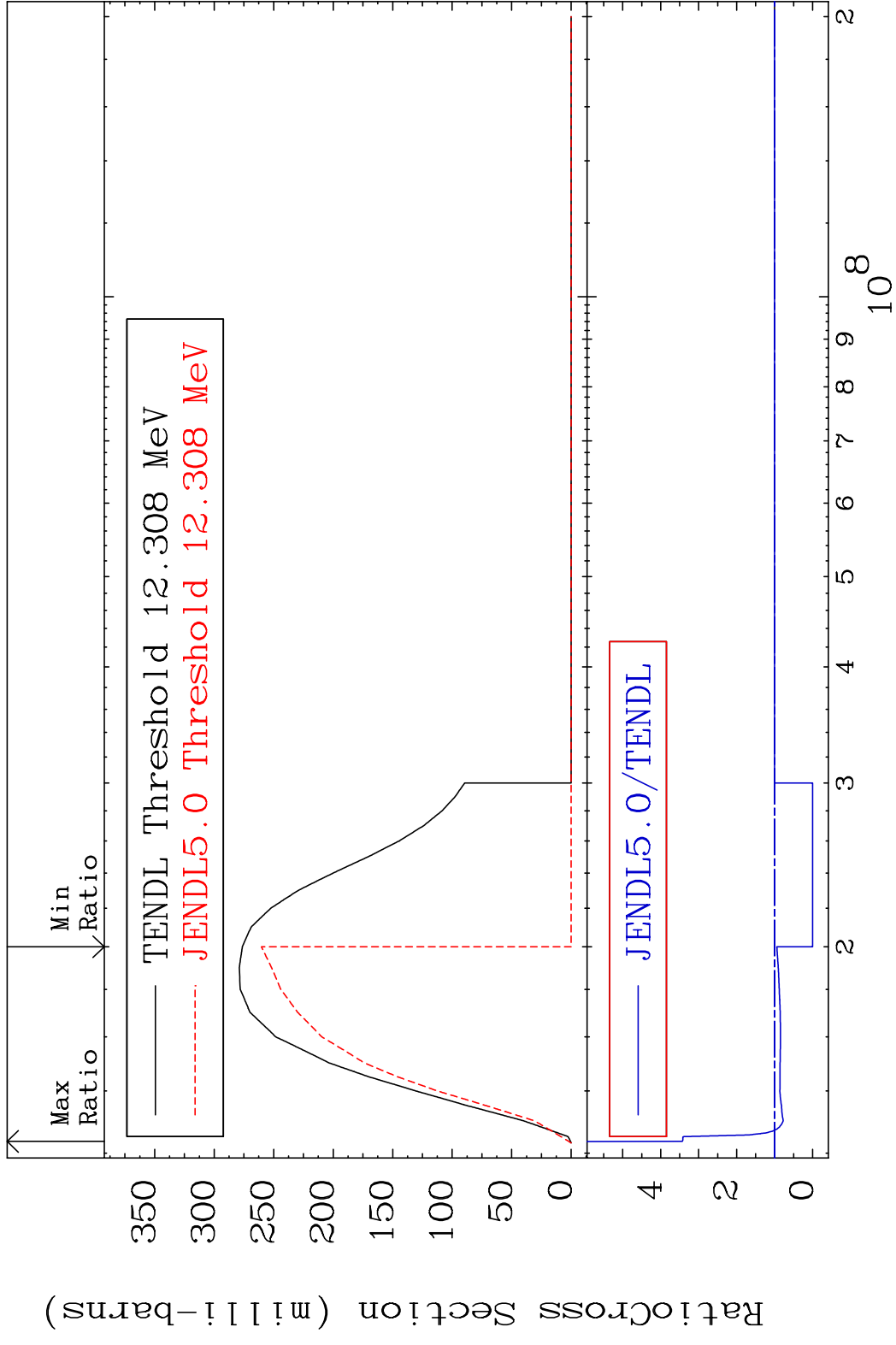


62 Incident Energy (eV) 41-Nb-91

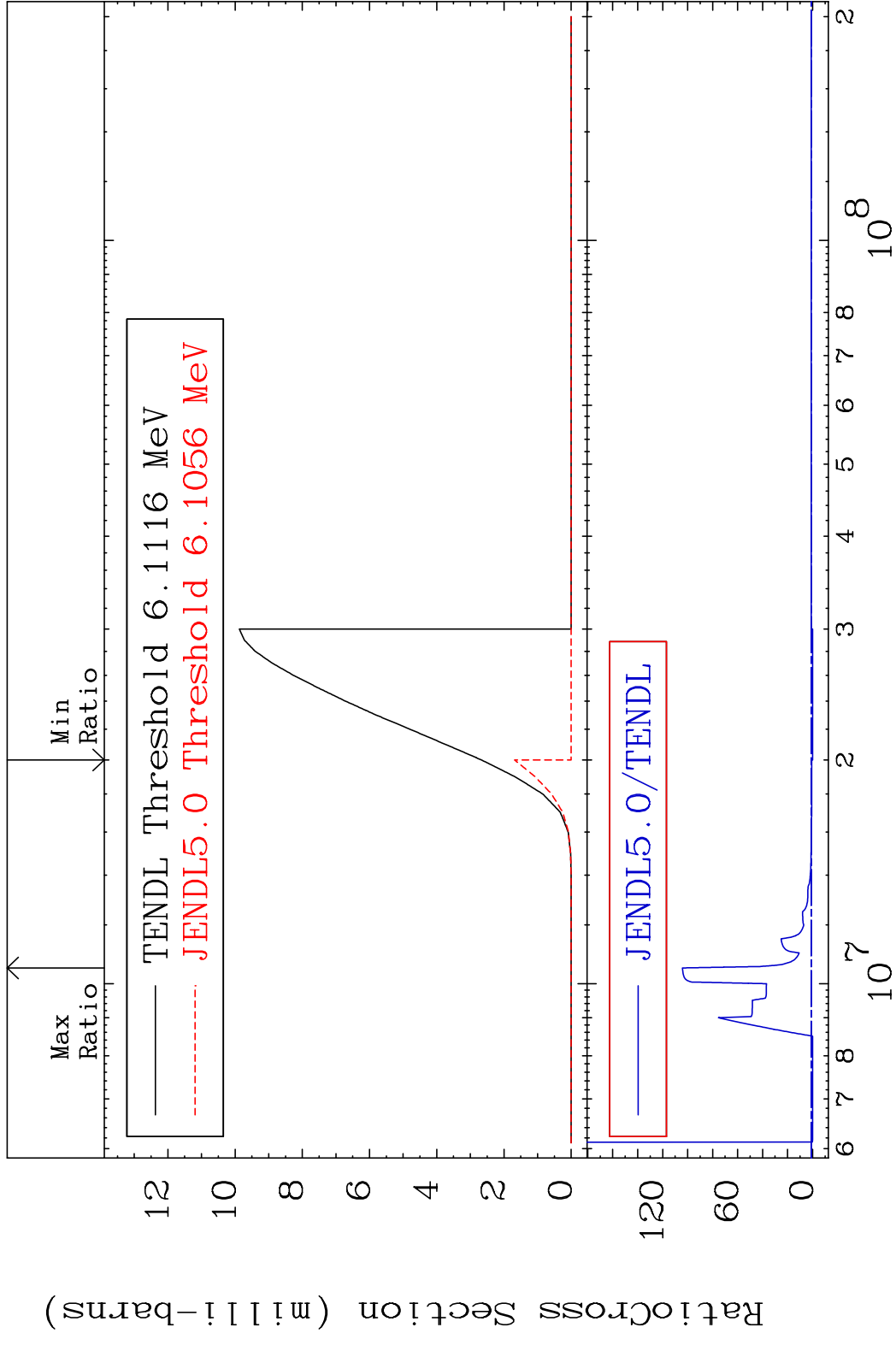
MAT 4119 (n,2n):41-Nb-90g 41-Nb-91
 Radionuclide Production Cross Section 80.95 %

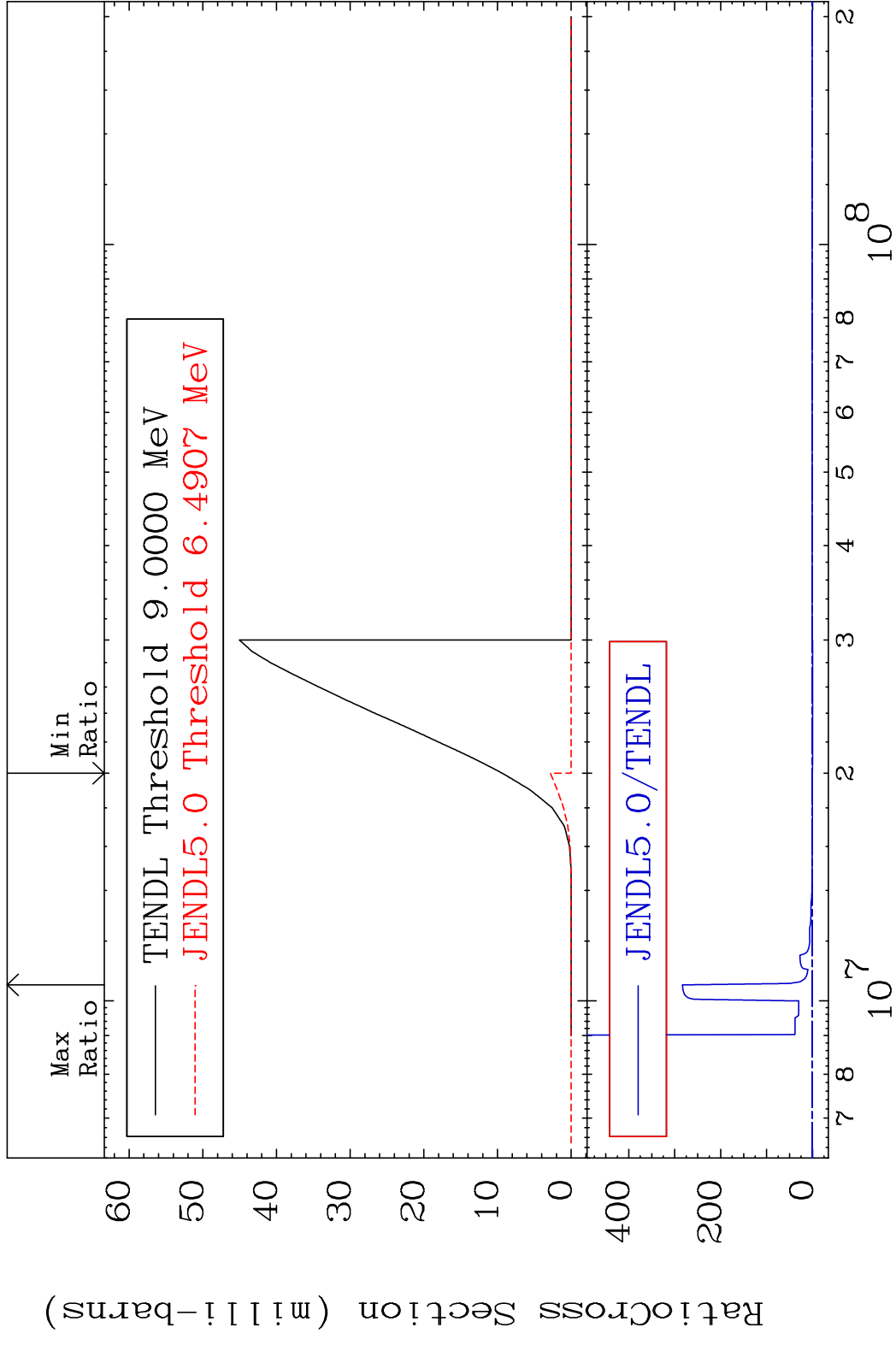


MAT 4119 (n,2n):41-Nb-90m2 41-Nb-91
 Radionuclide Production Cross Section Ratio 242.9 %

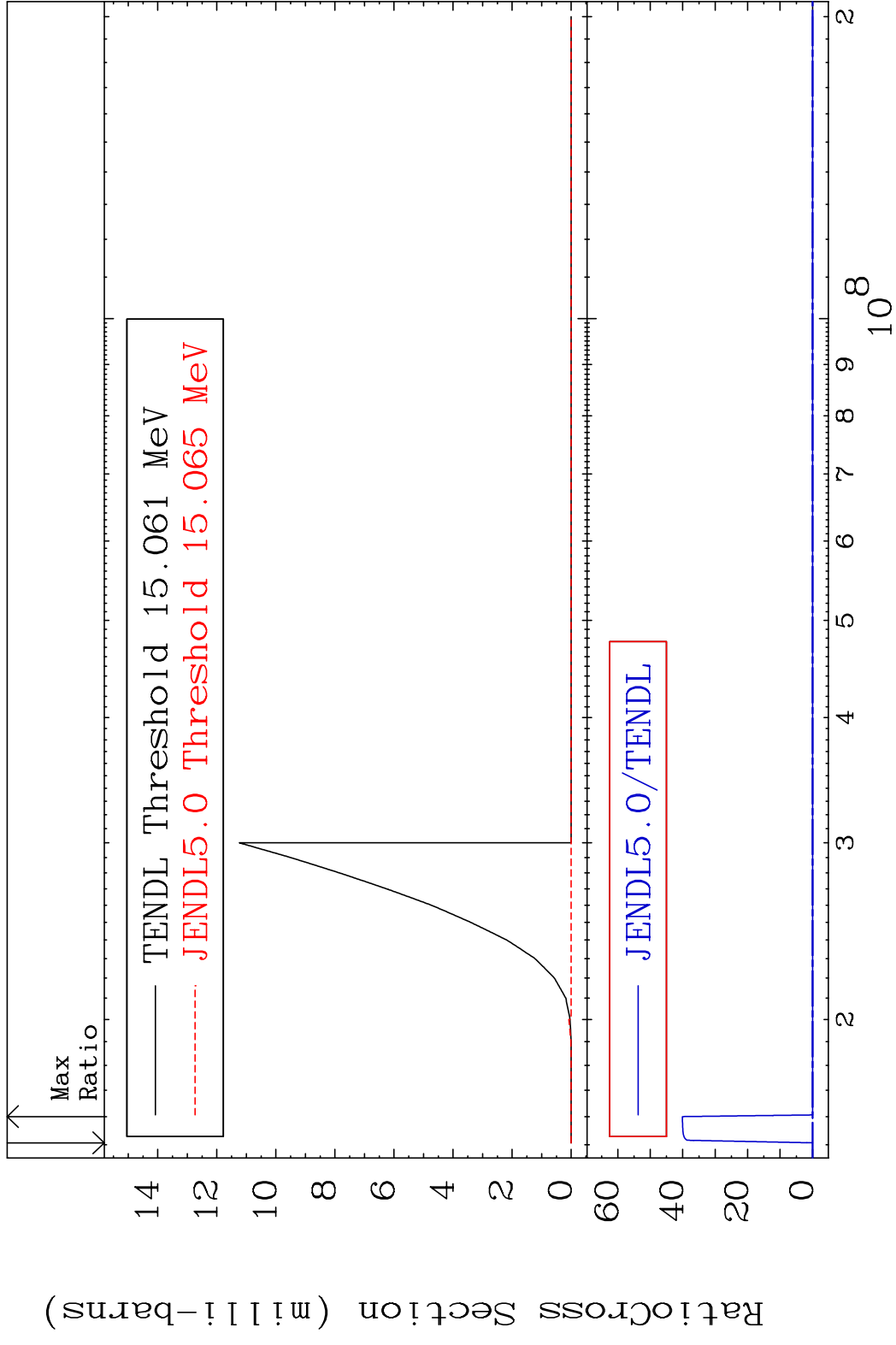


MAT 4119 (n, n') α :39-Y -87g 41-Nb-91
 Radionuclide Production Cross Section Ratio 9999. %

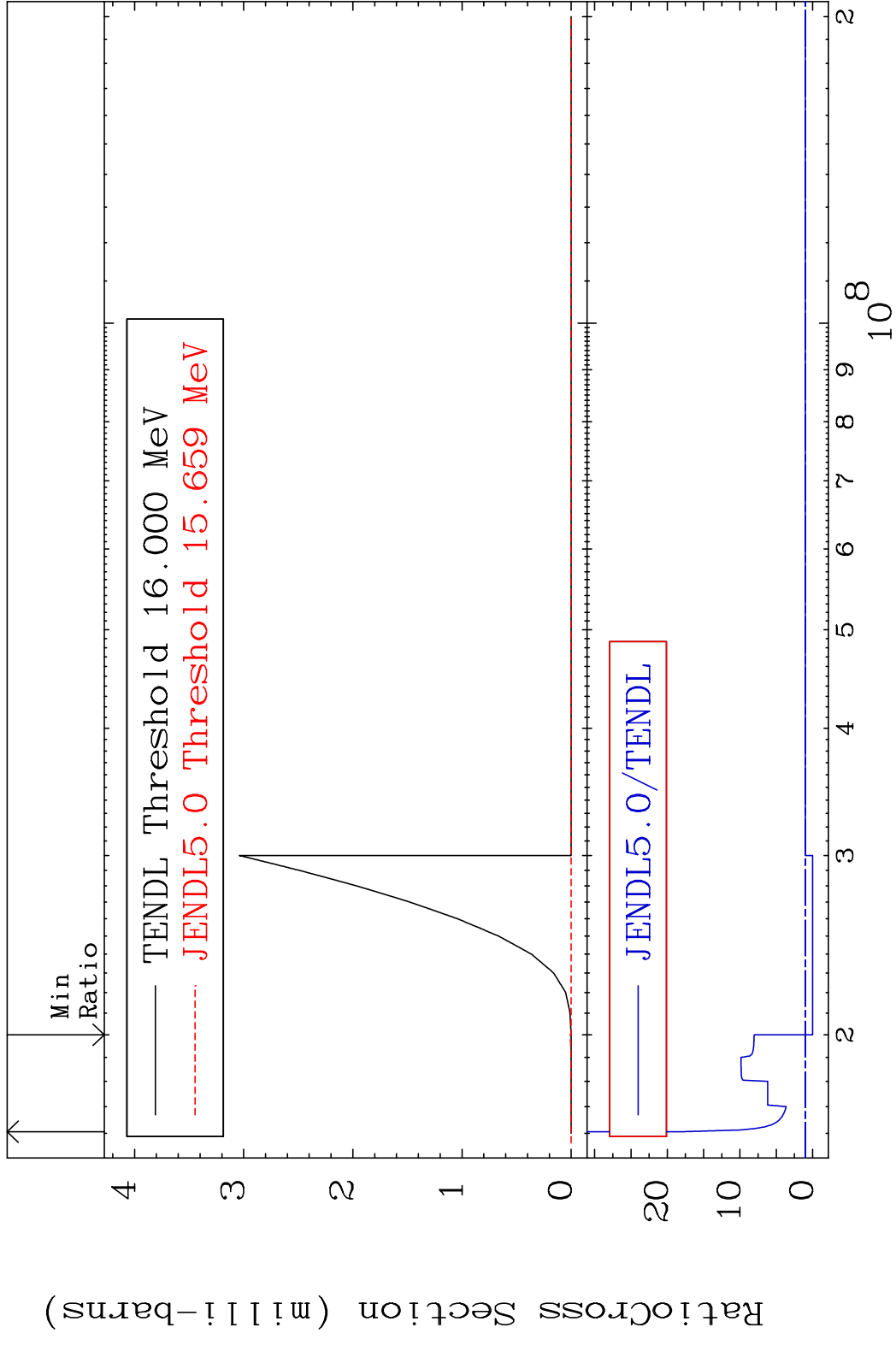


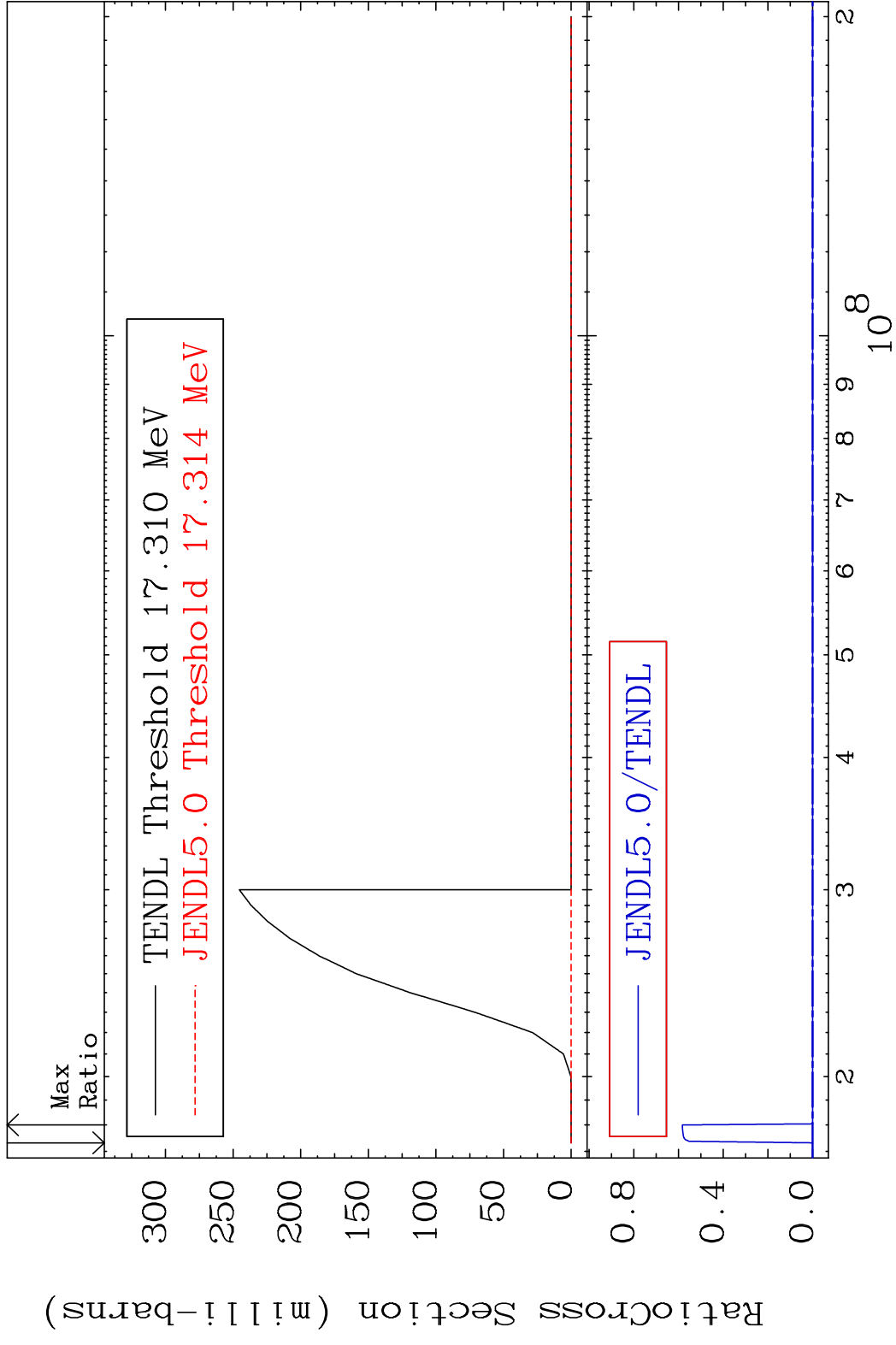


MAT 4119 (n, n') d:40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section 100.00 % 9999. %

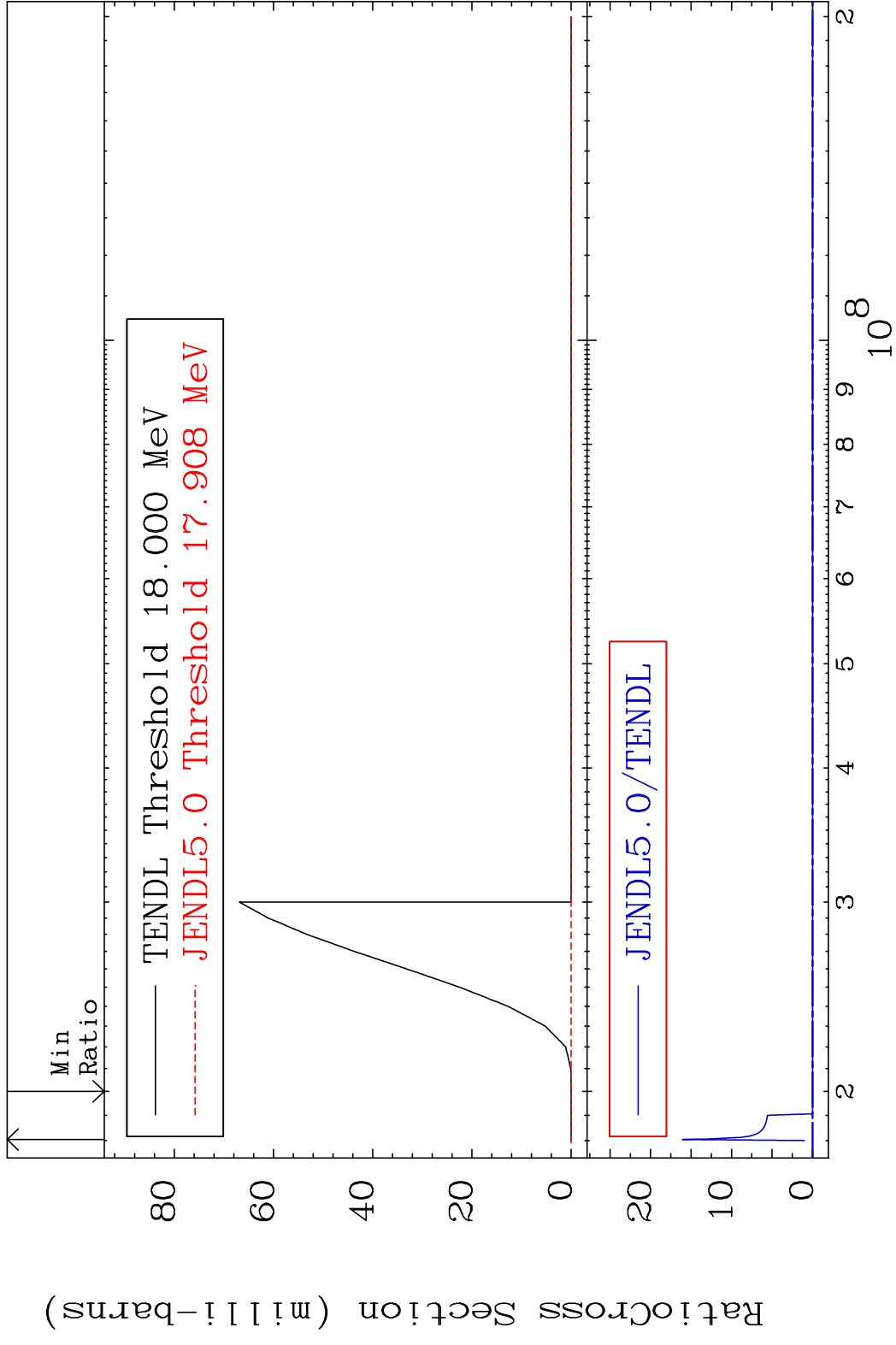


MAT 4119 (n, n') d:40-Zr-89m1 41-Nb-91
 Radionuclide Production Cross Section 1693. %



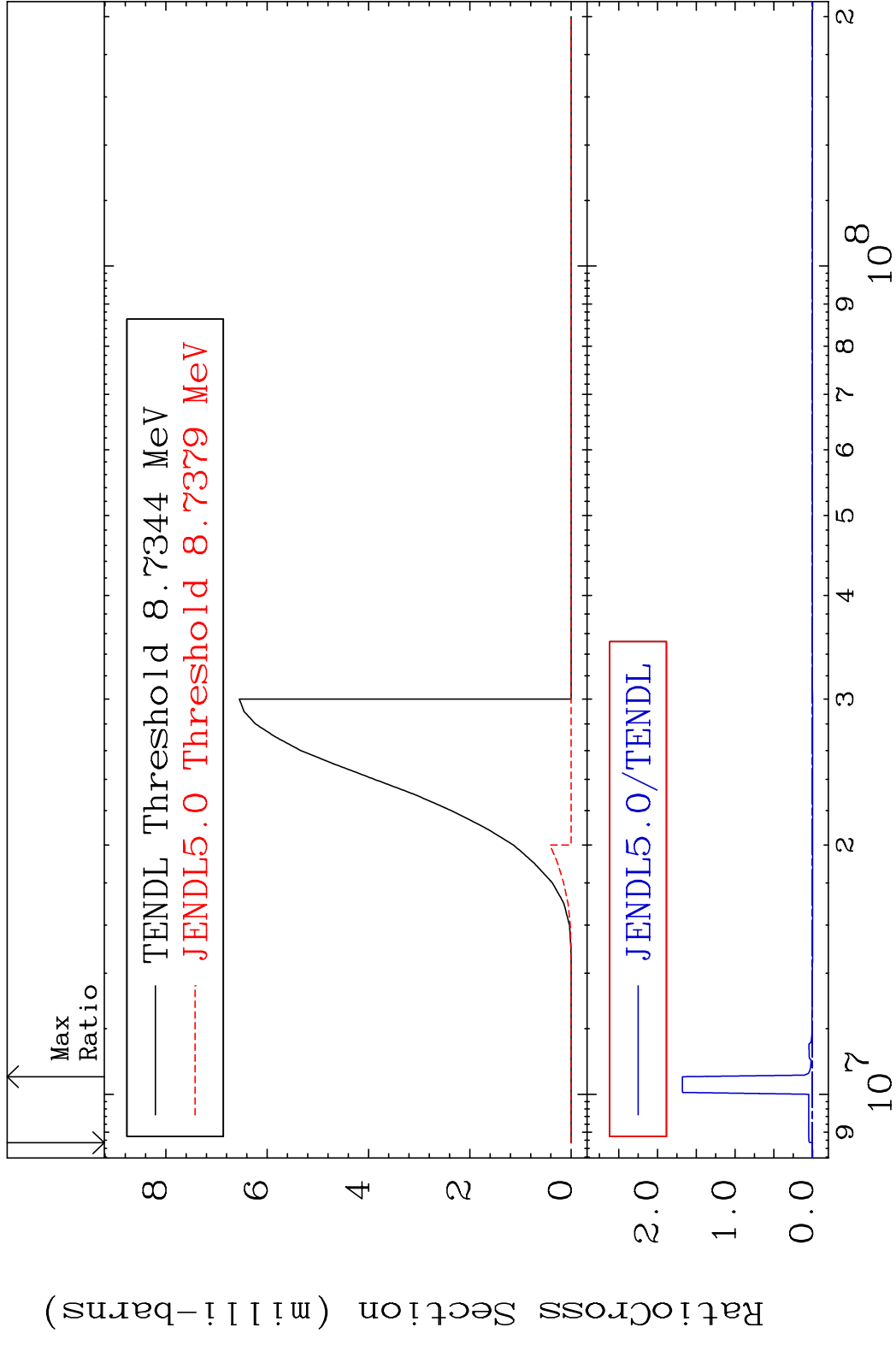


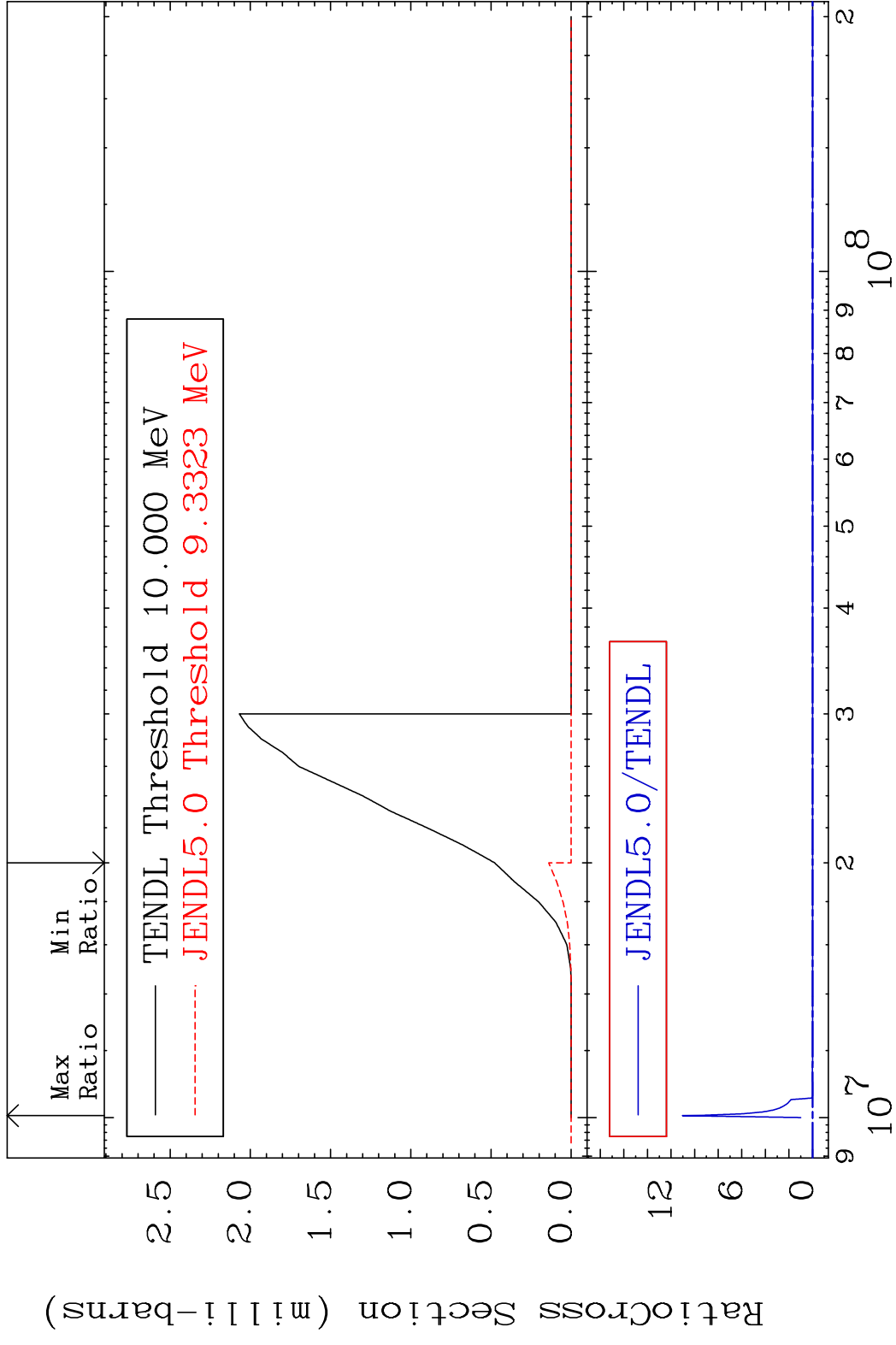
MAT 4119 (n,2n) p:40-Zr-89m1 41-Nb-91
 Radionuclide Production Cross Section 18000.0 mb 9999. %

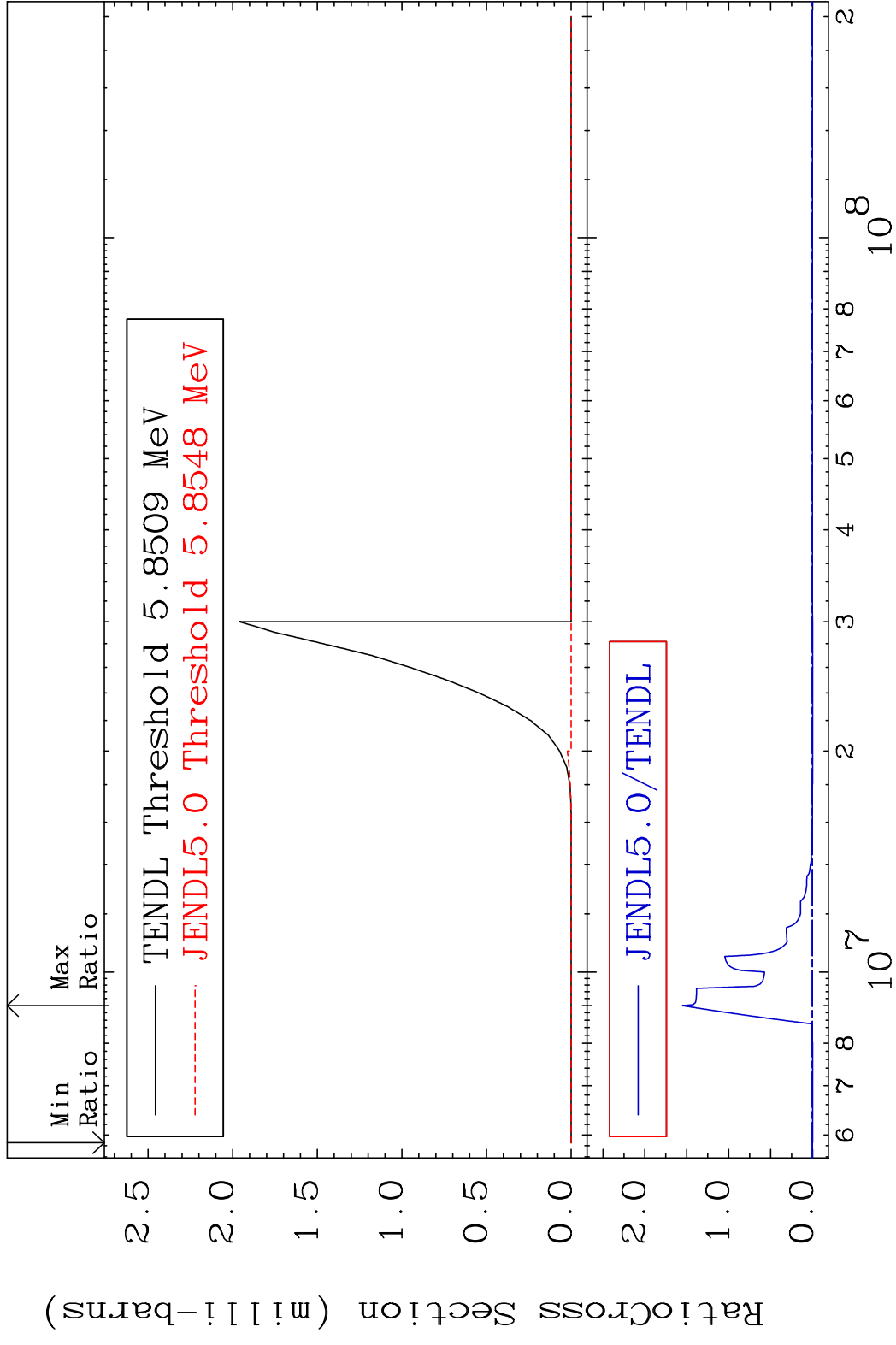


70 Incident Energy (eV) 41-Nb-91

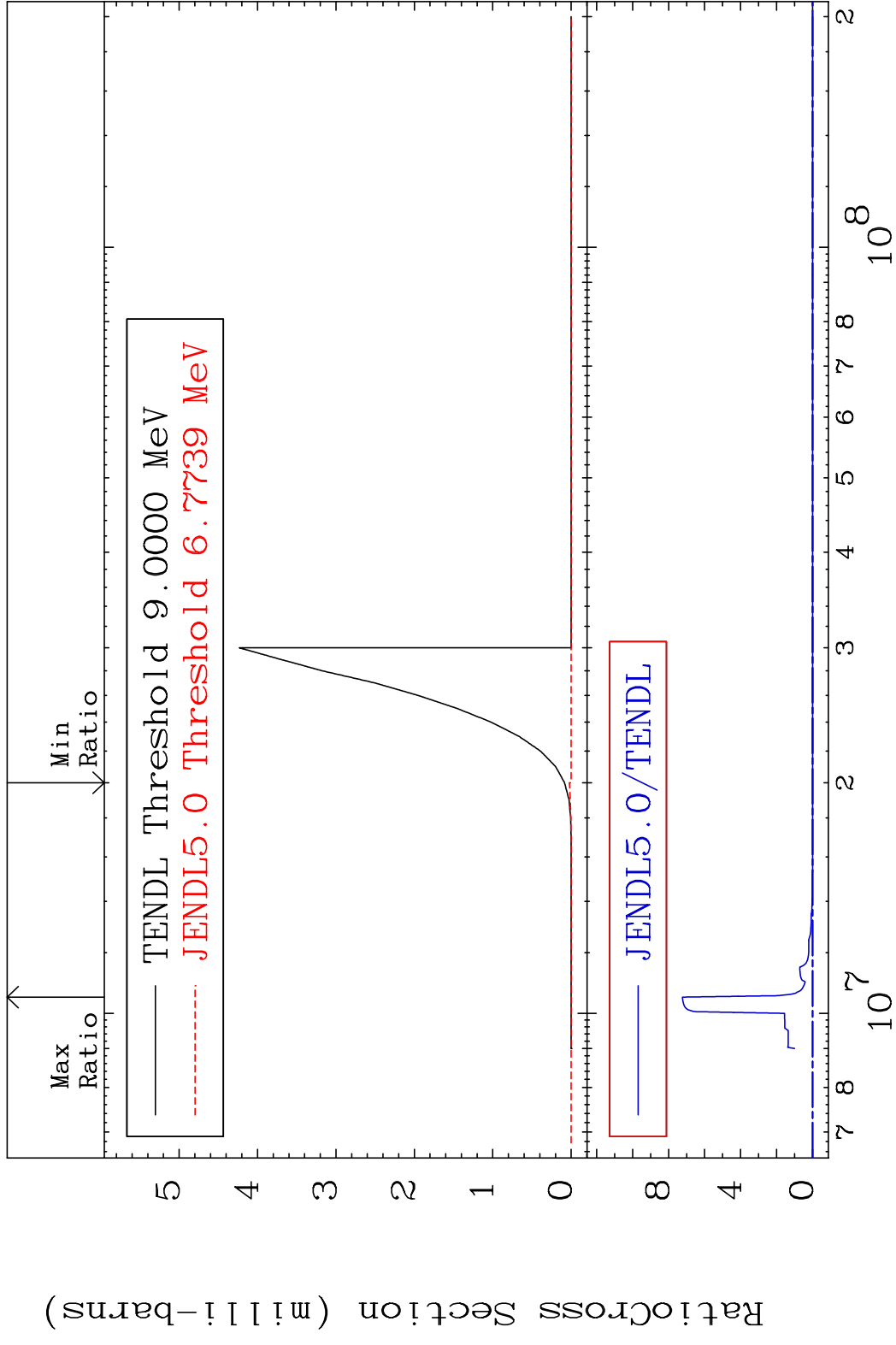
MAT 4119 (n, t):40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section Ratio 9999. %







MAT 4119 (n, He-3):39-Y -89m1 41-Nb-91
 Radionuclide Production Cross Section Ratio 9999. %



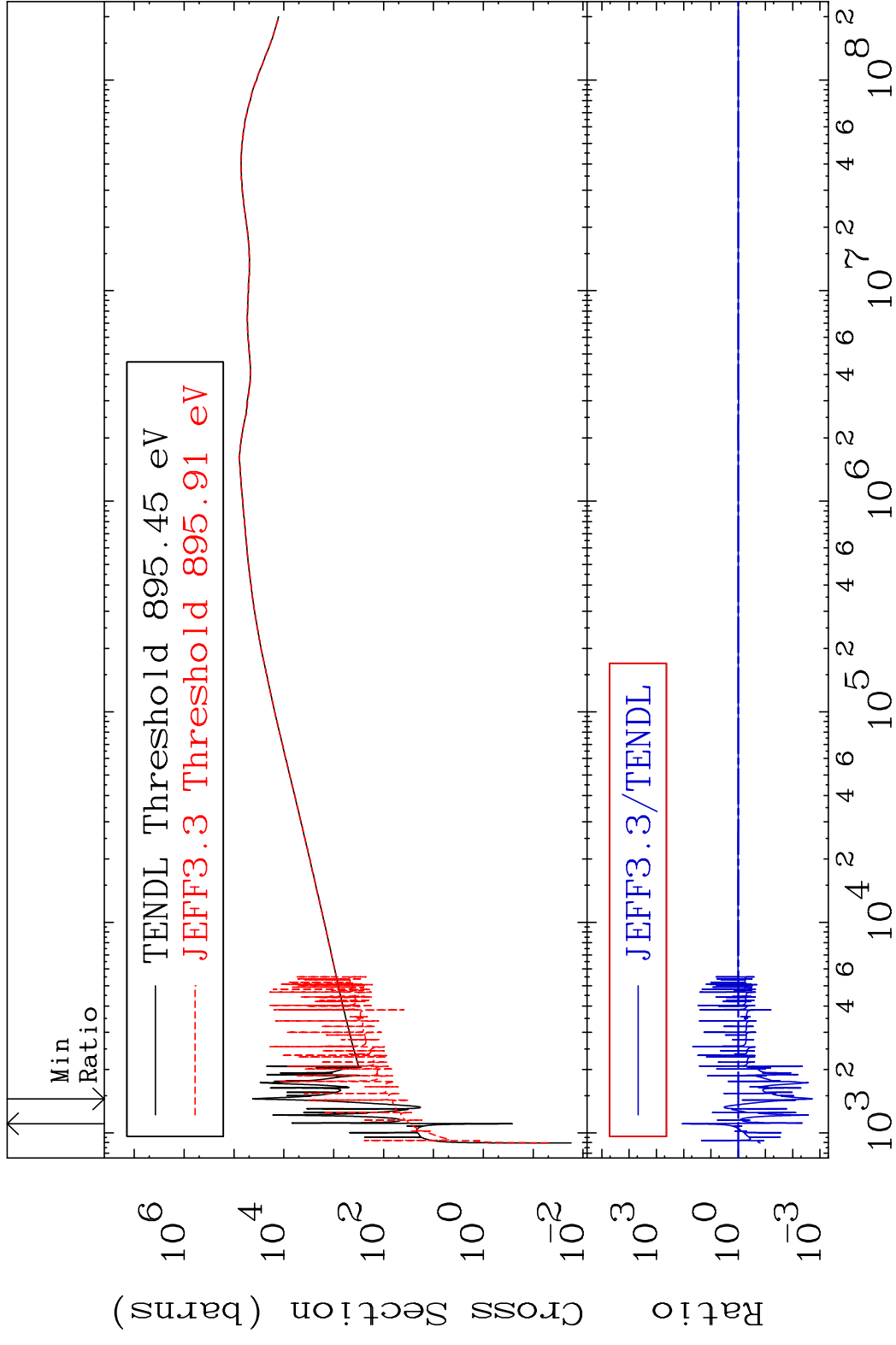
74 Incident Energy (eV) 41-Nb-91

MAT 4119

Dpa elastic (mt2)

41-Nb-91

Cross Section -99.81 To 9999. %

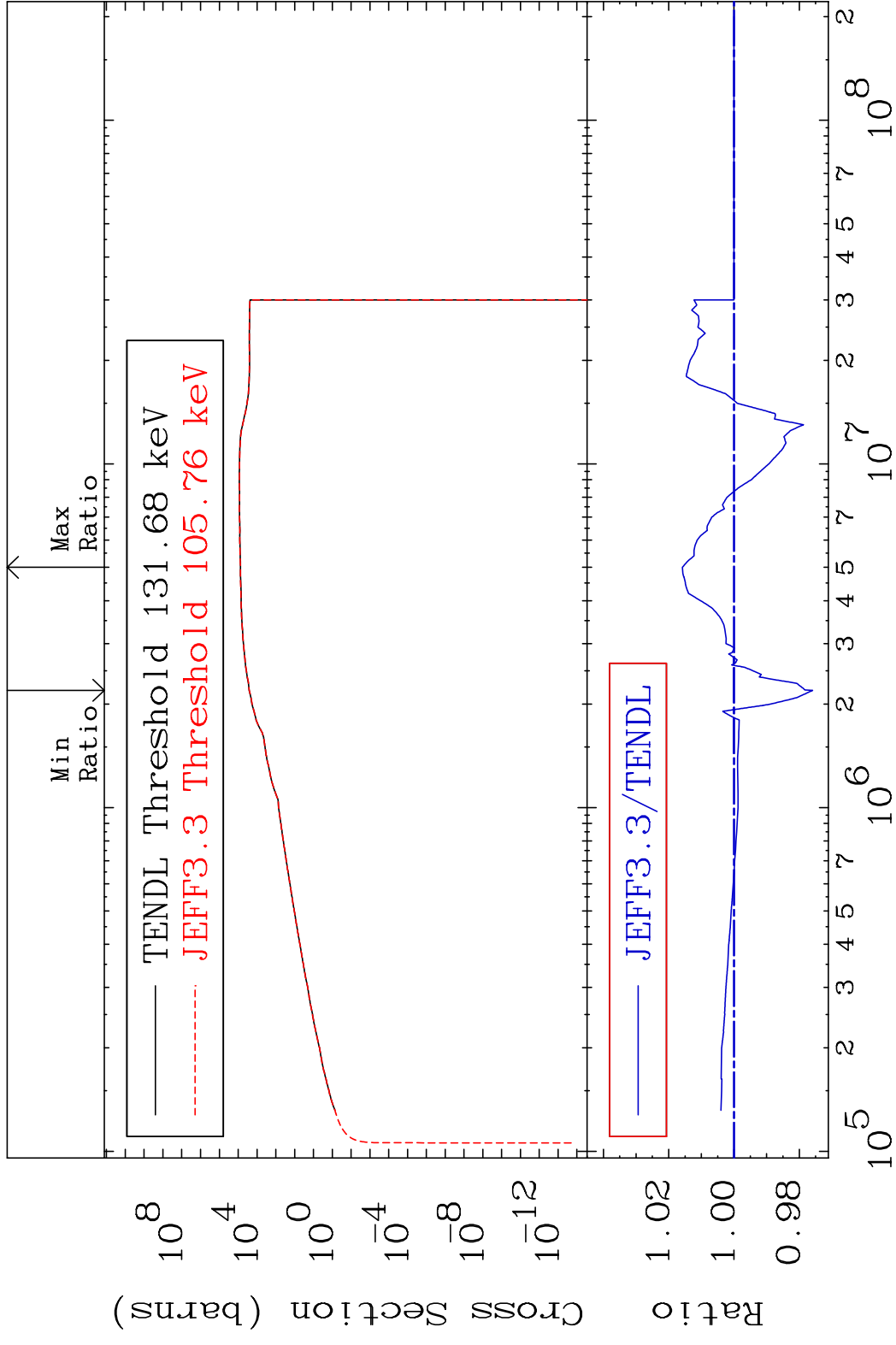


75

Incident Energy (eV)

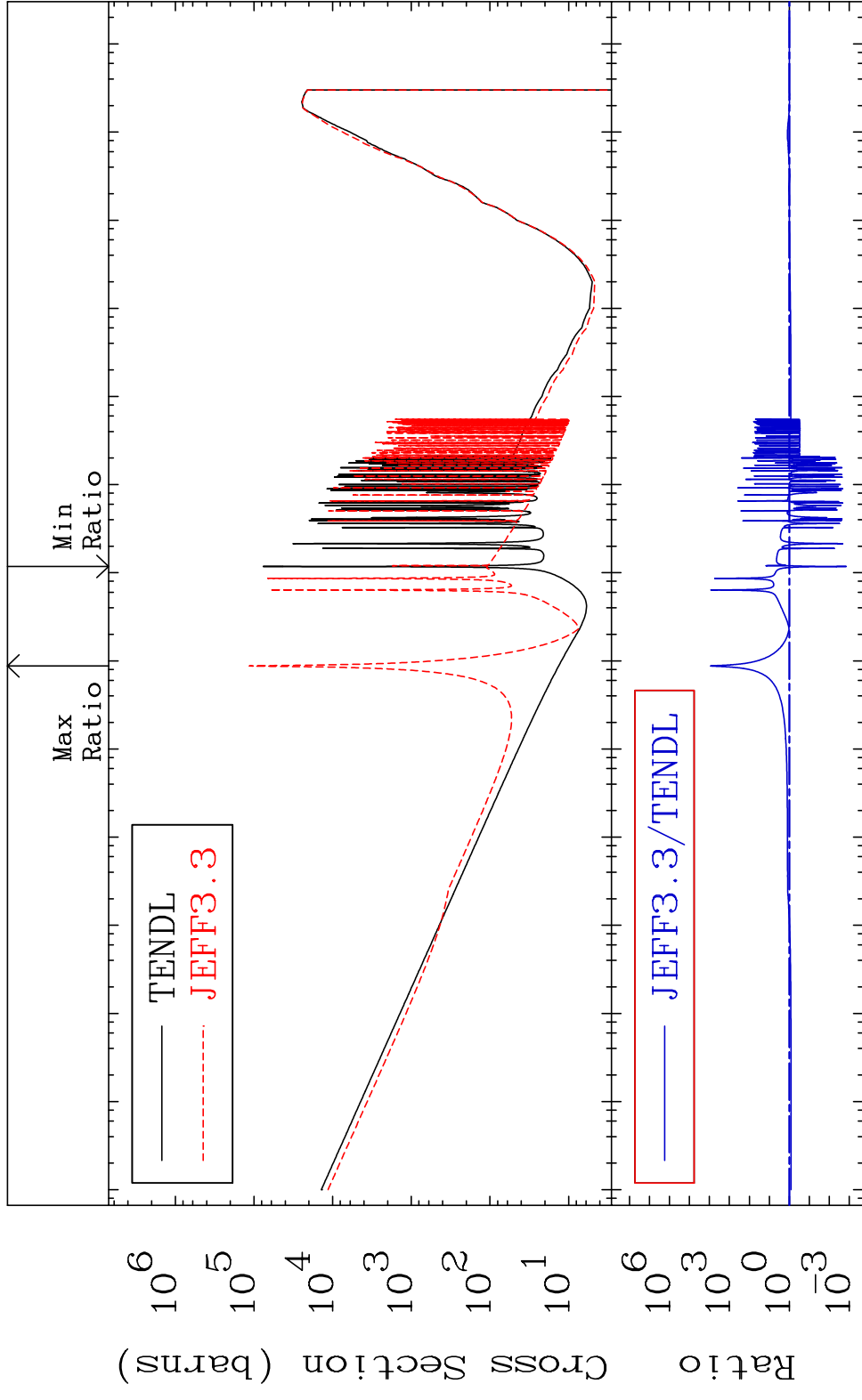
41-Nb-91

MAT 4119 Dpa inelastic (mt51-91) 41-Nb-91
 Cross Section -2.406 To 1.582 %



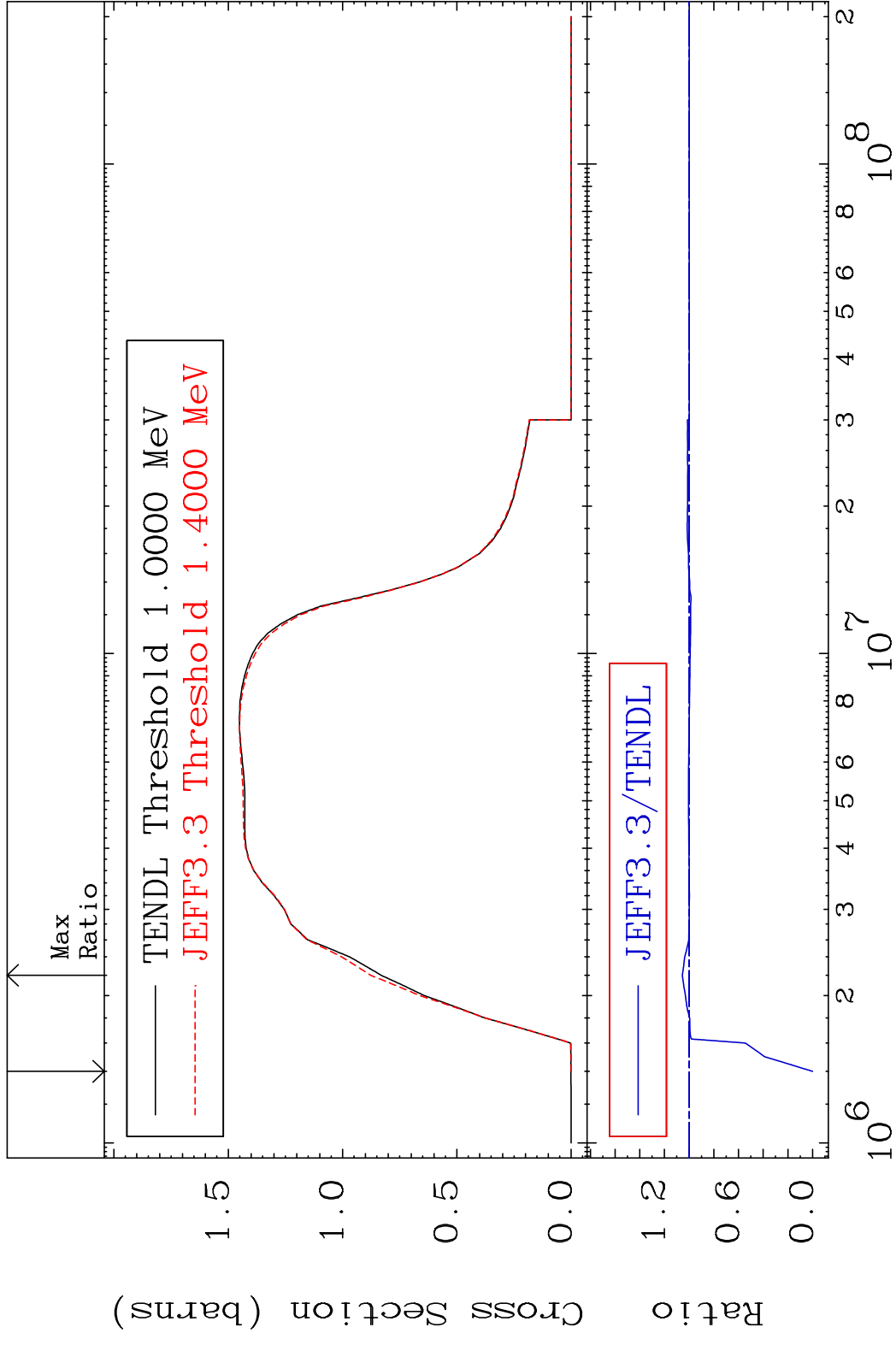
76 Incident Energy (eV) 41-Nb-91

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



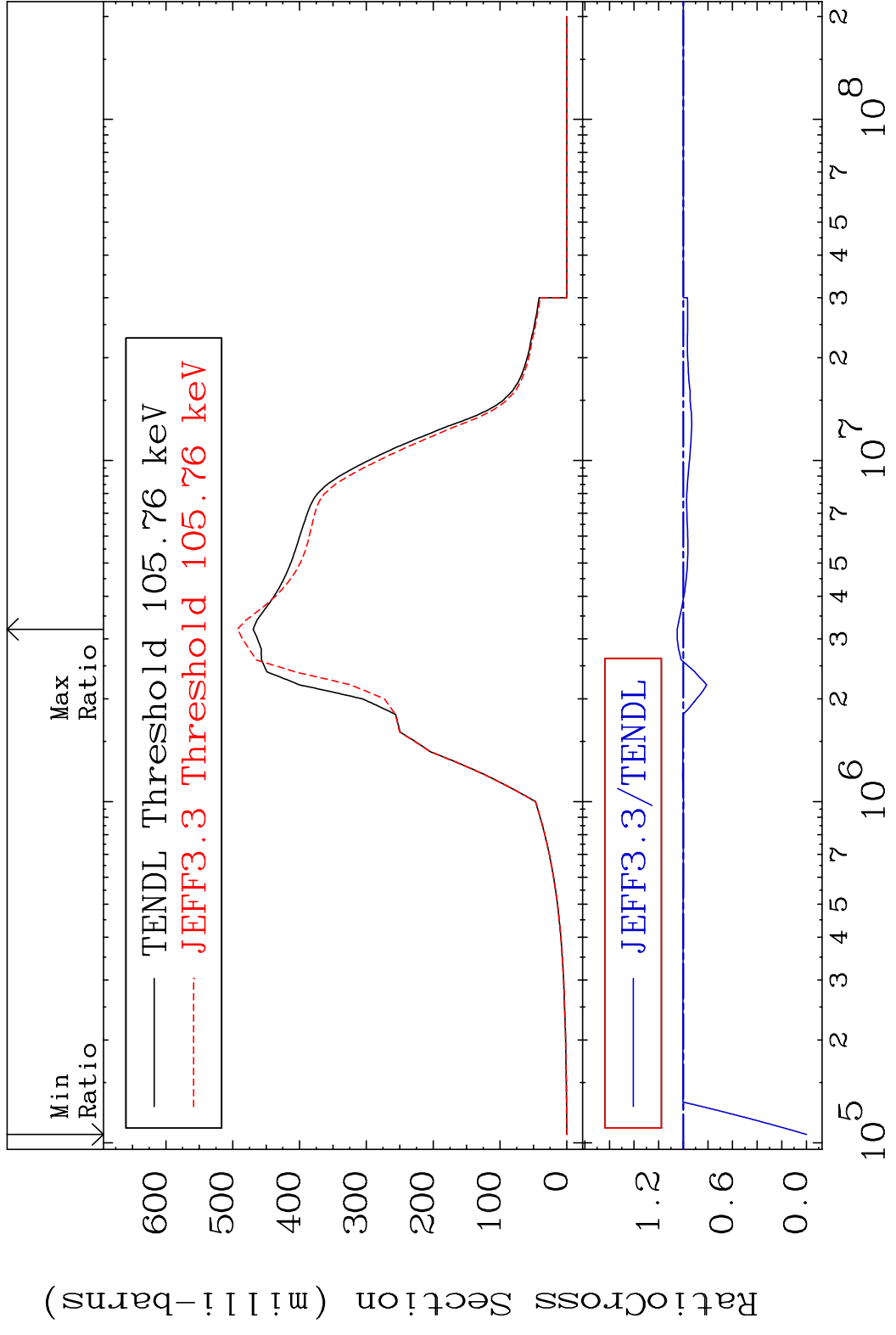
77 Incident Energy (eV) 41-Nb-91

MAT 4119 Inelastic:41-Nb-91g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dno 5.489 %



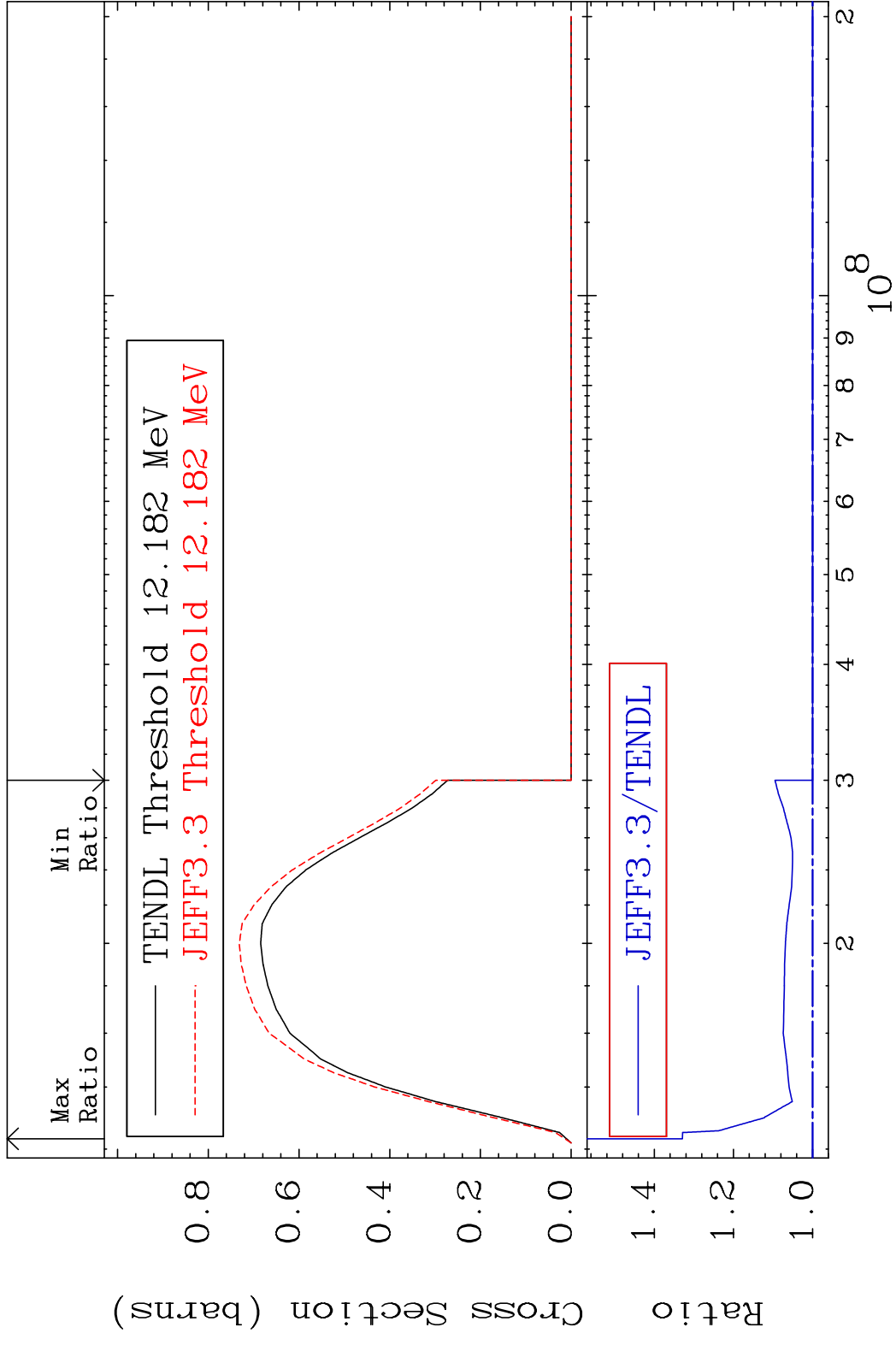
78 Incident Energy (eV) 41-Nb-91

MAT 4119 Inelastic:41-Nb-91m1 41-Nb-91
 Radionuclide Production Cross Section Ratio 4.970 %

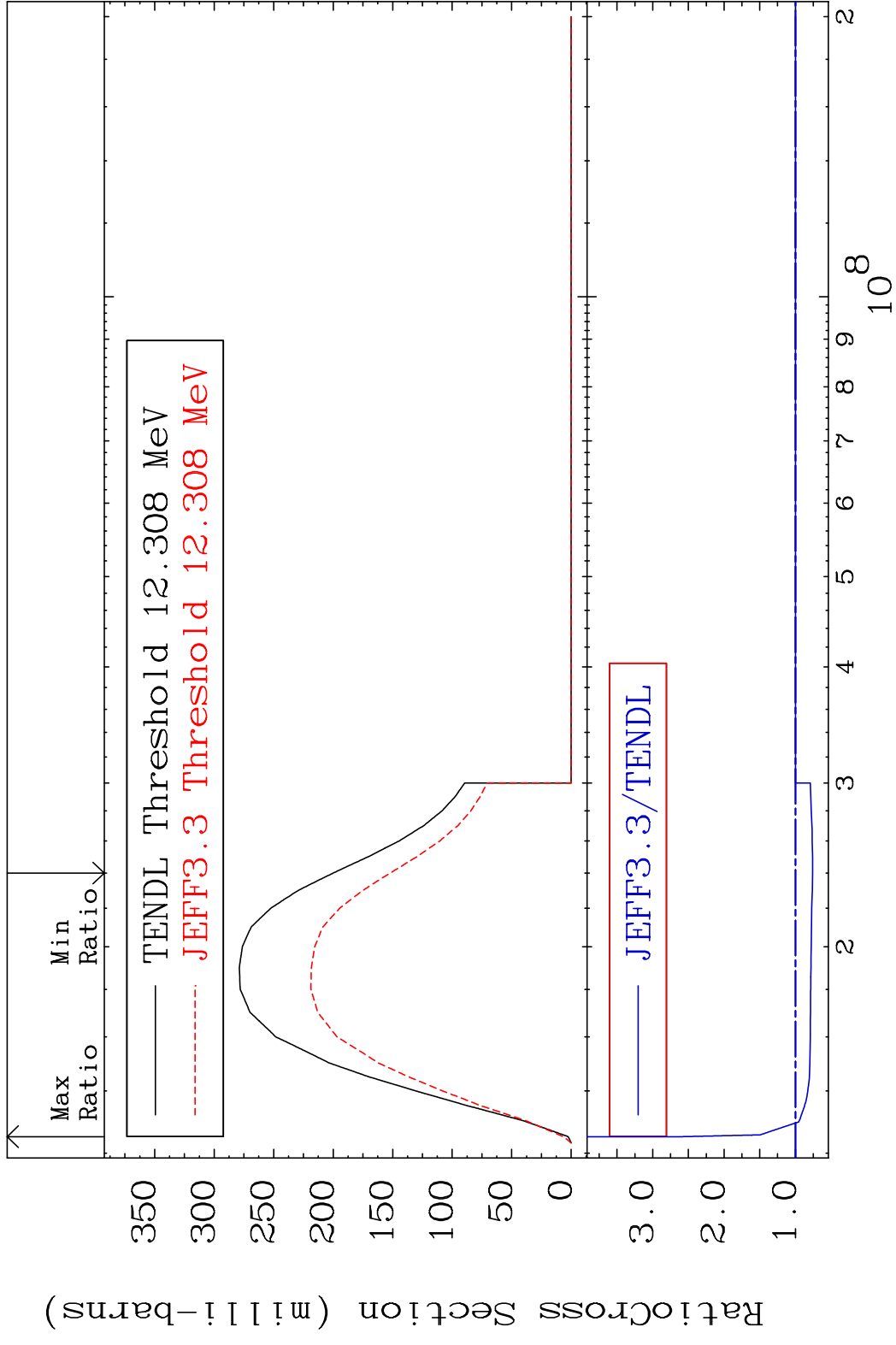


79 Incident Energy (eV) 41-Nb-91

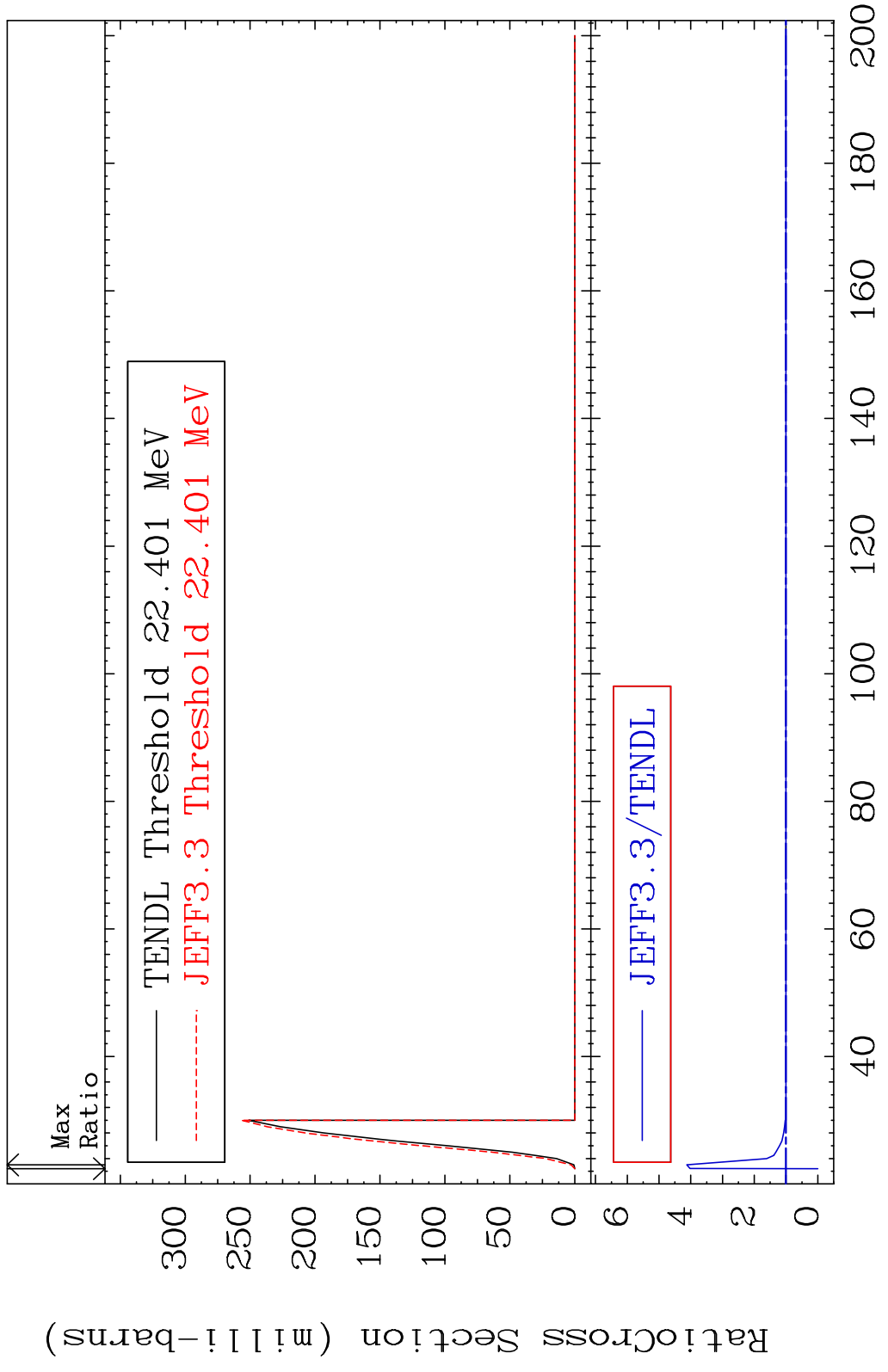
MAT 4119 (n,2n):41-Nb-90g 41-Nb-91
 Radionuclide Production Cross Section 32.91 %



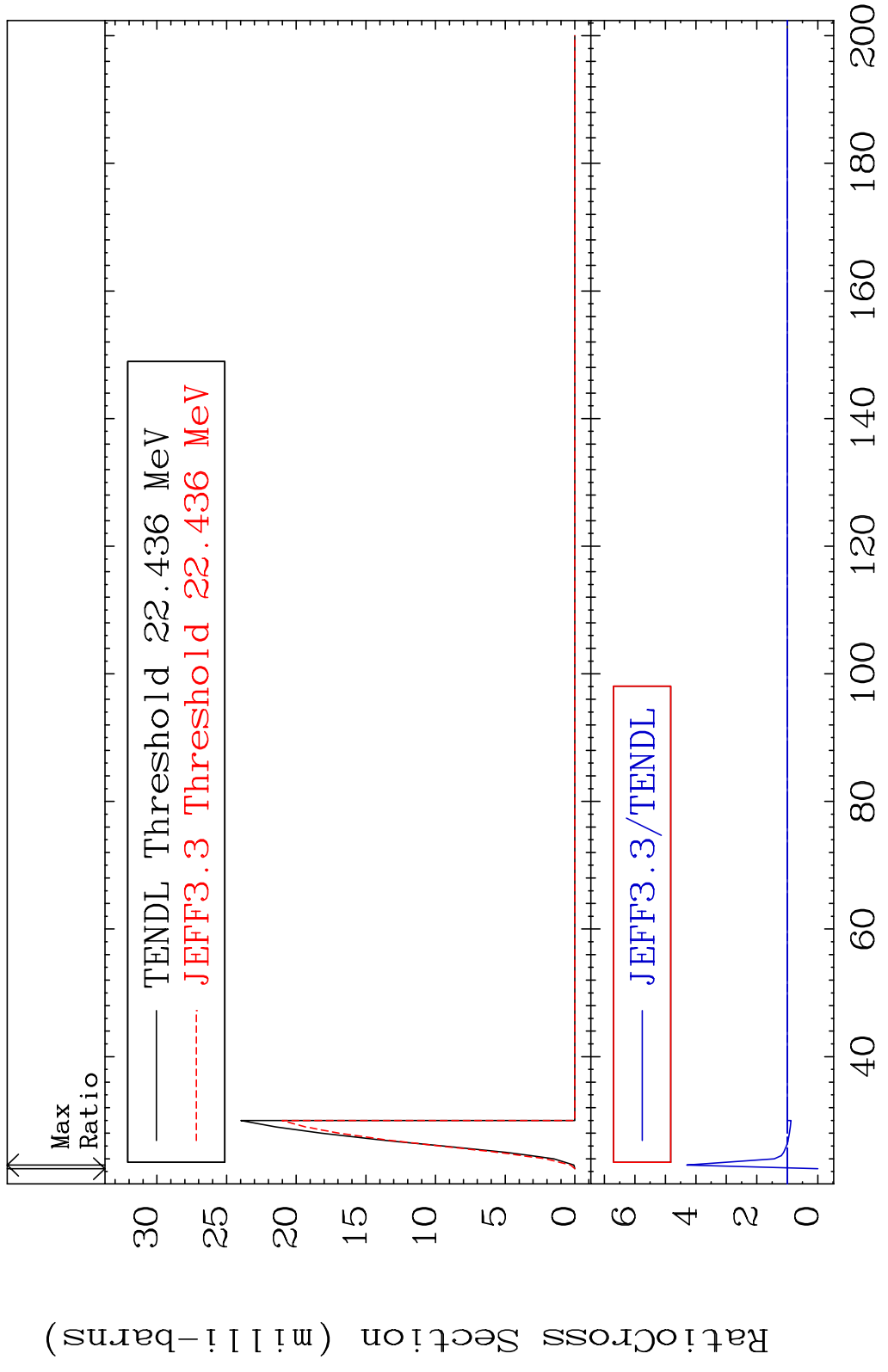
MAT 4119 (n,2n):41-Nb-90m2 41-Nb-91
 Radionuclide Production Cross Section 158.5 %

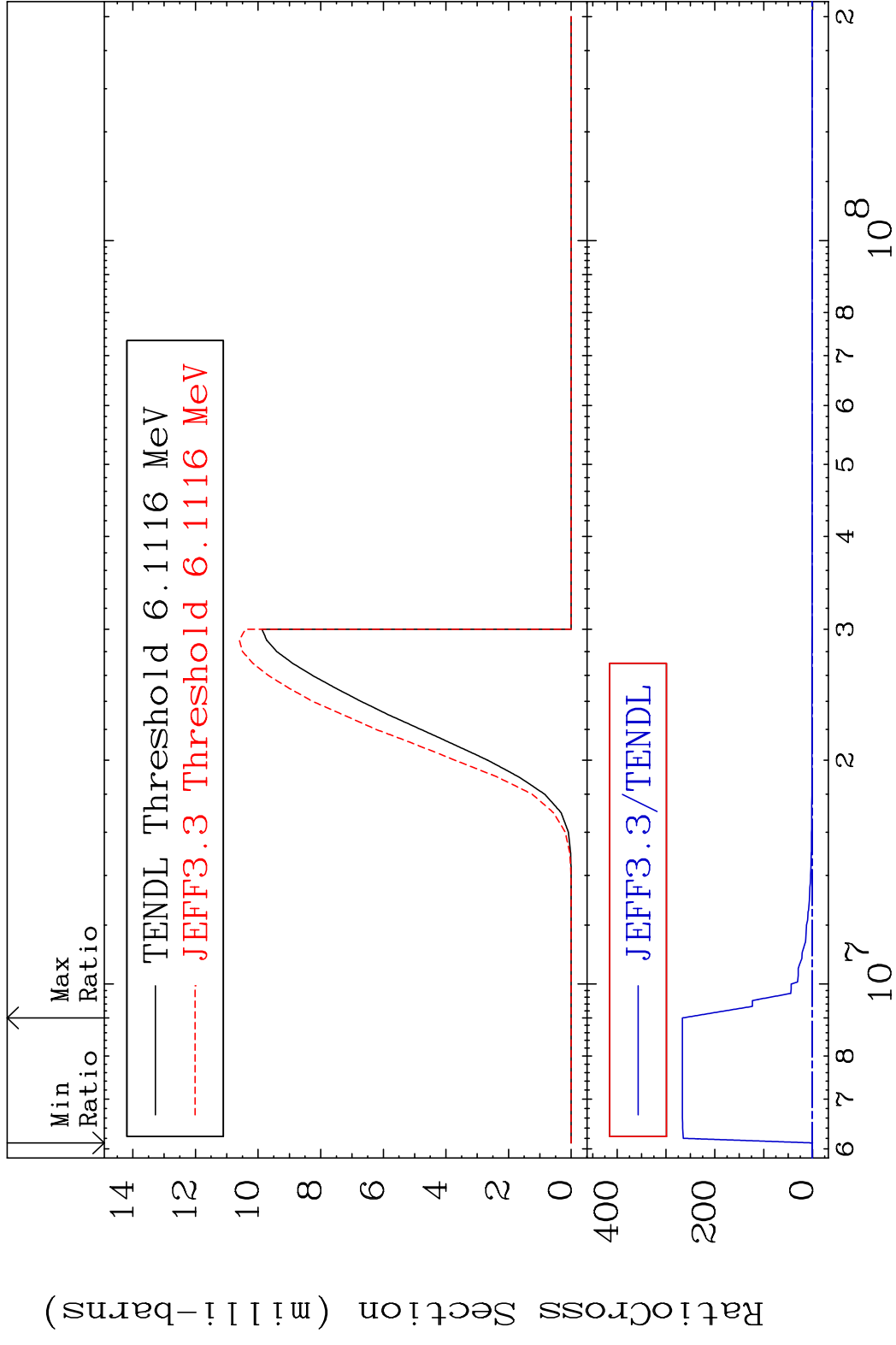


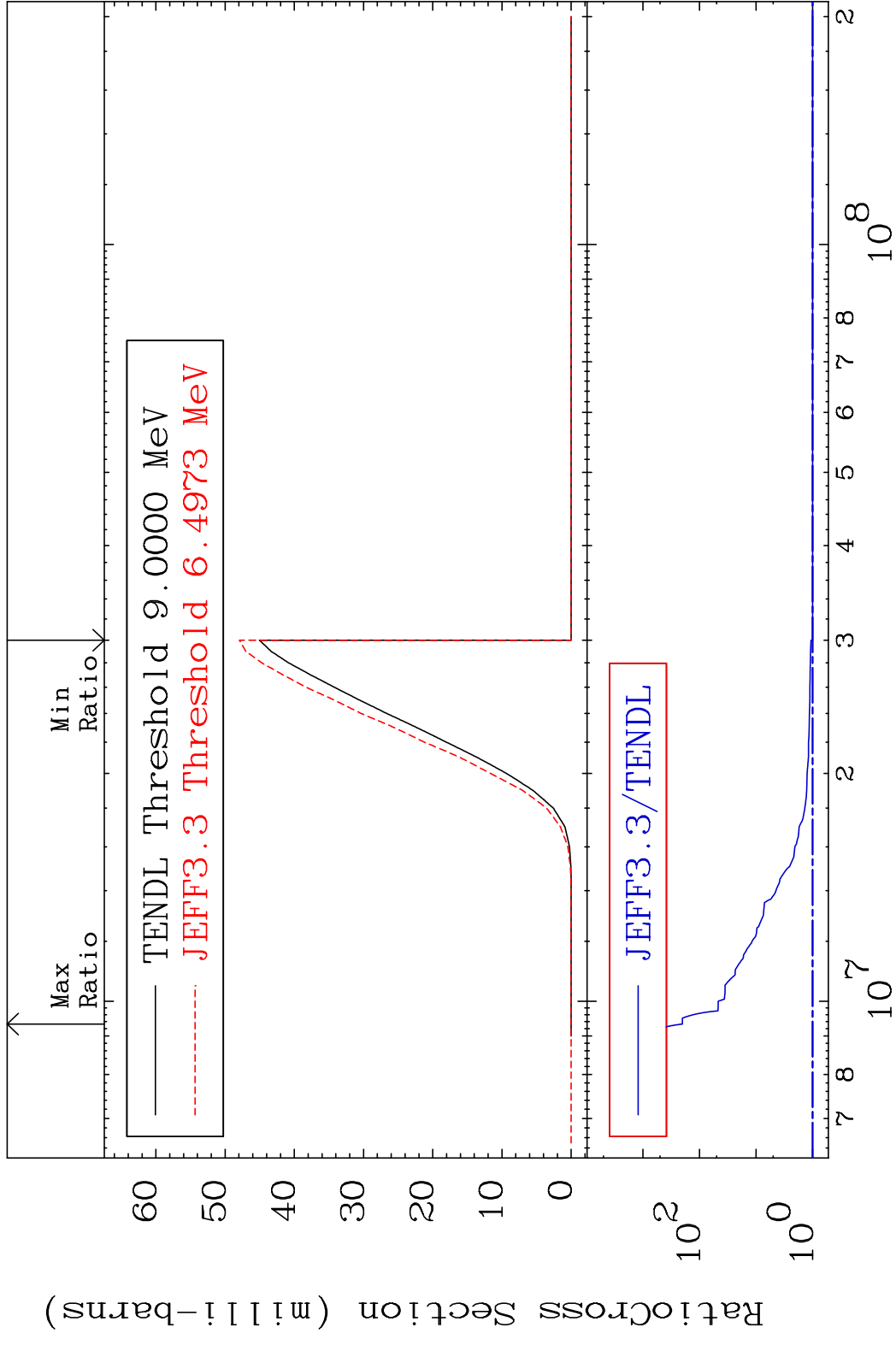
MAT 4119 (n,3n):41-Nb-89g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 312.7 %



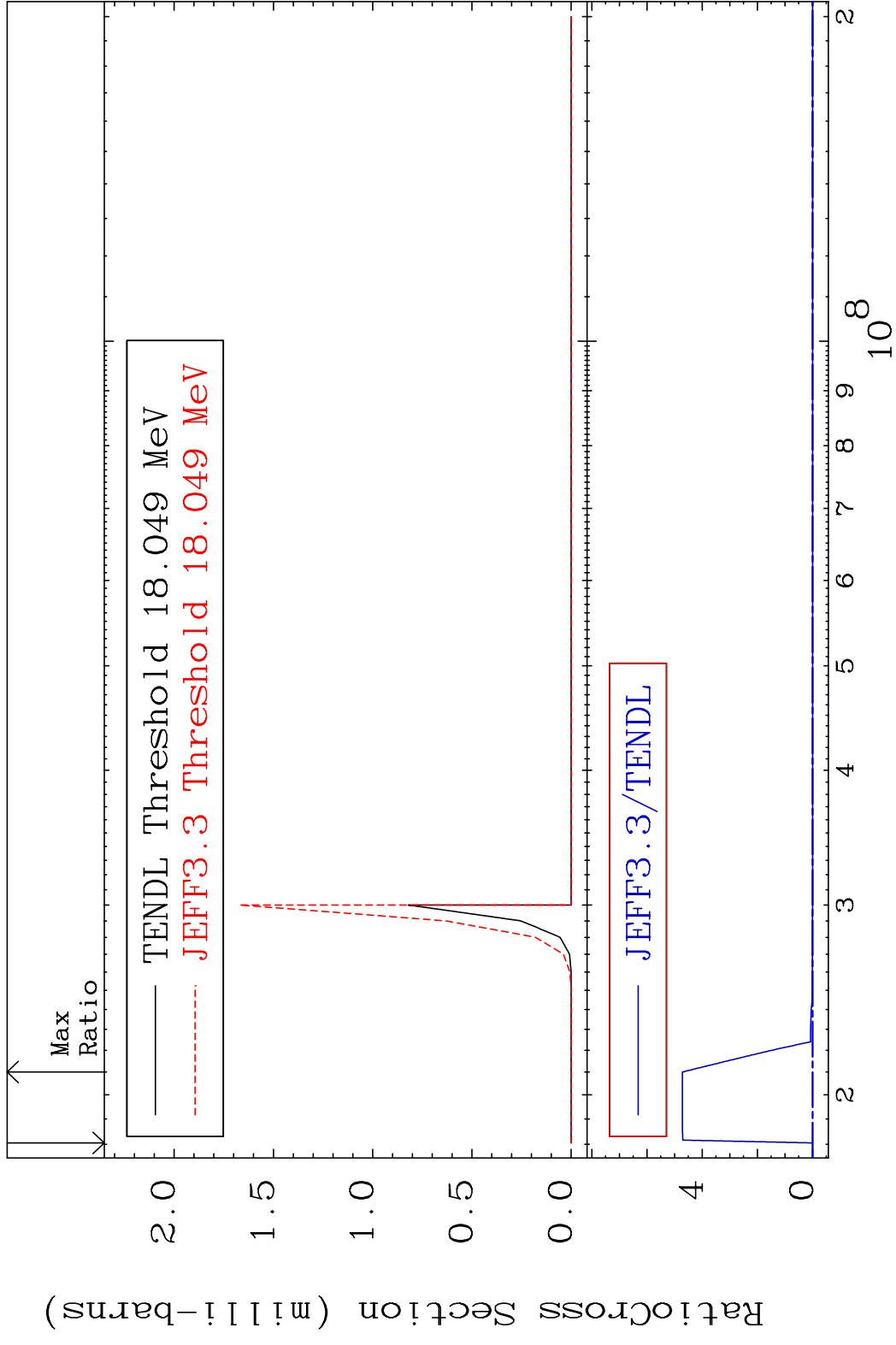
MAT 4119 (n,3n):41-Nb-89m1 41-Nb-91
 Radionuclide Production Cross Section 180.0 dno 330.0 %

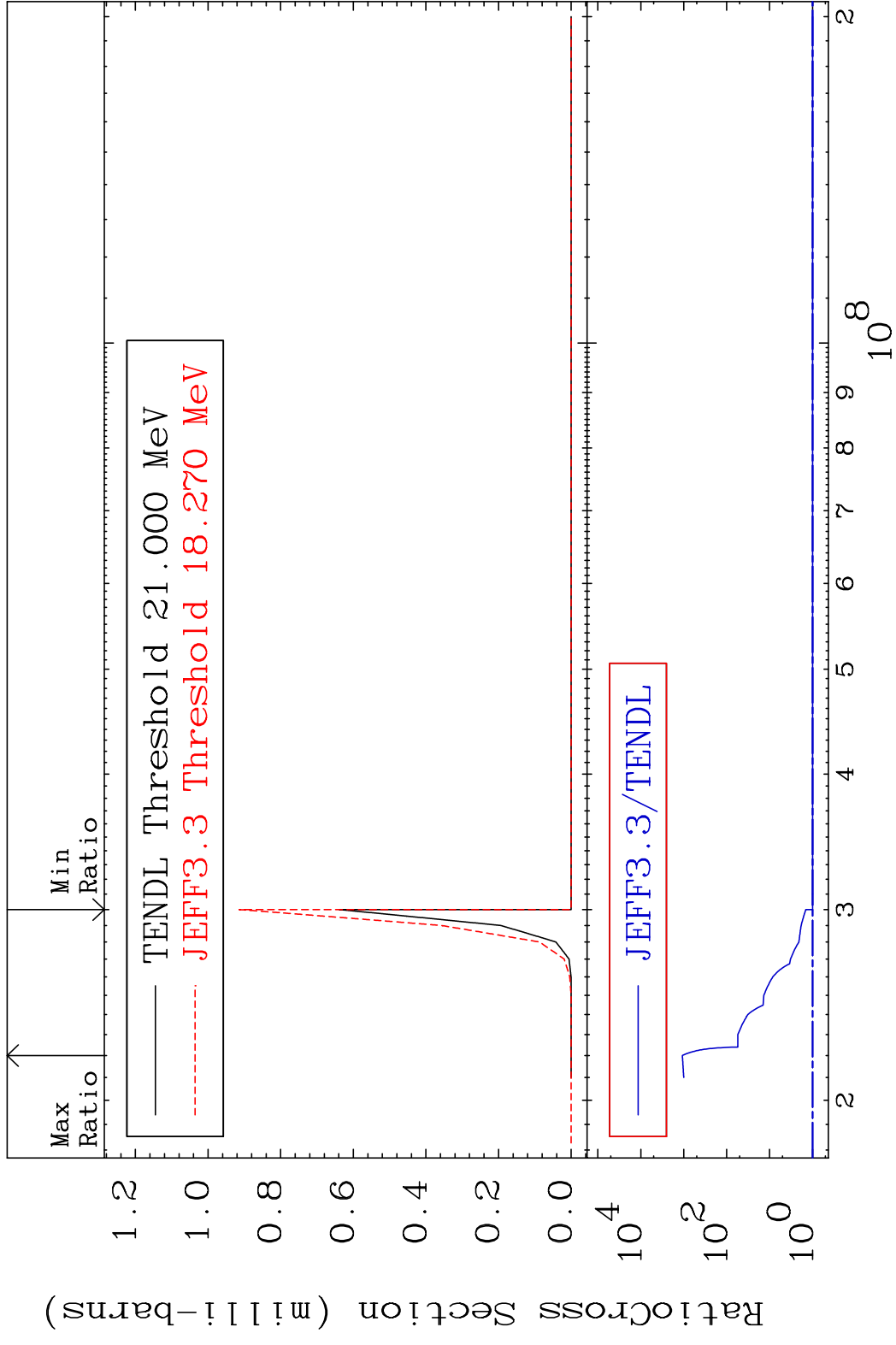




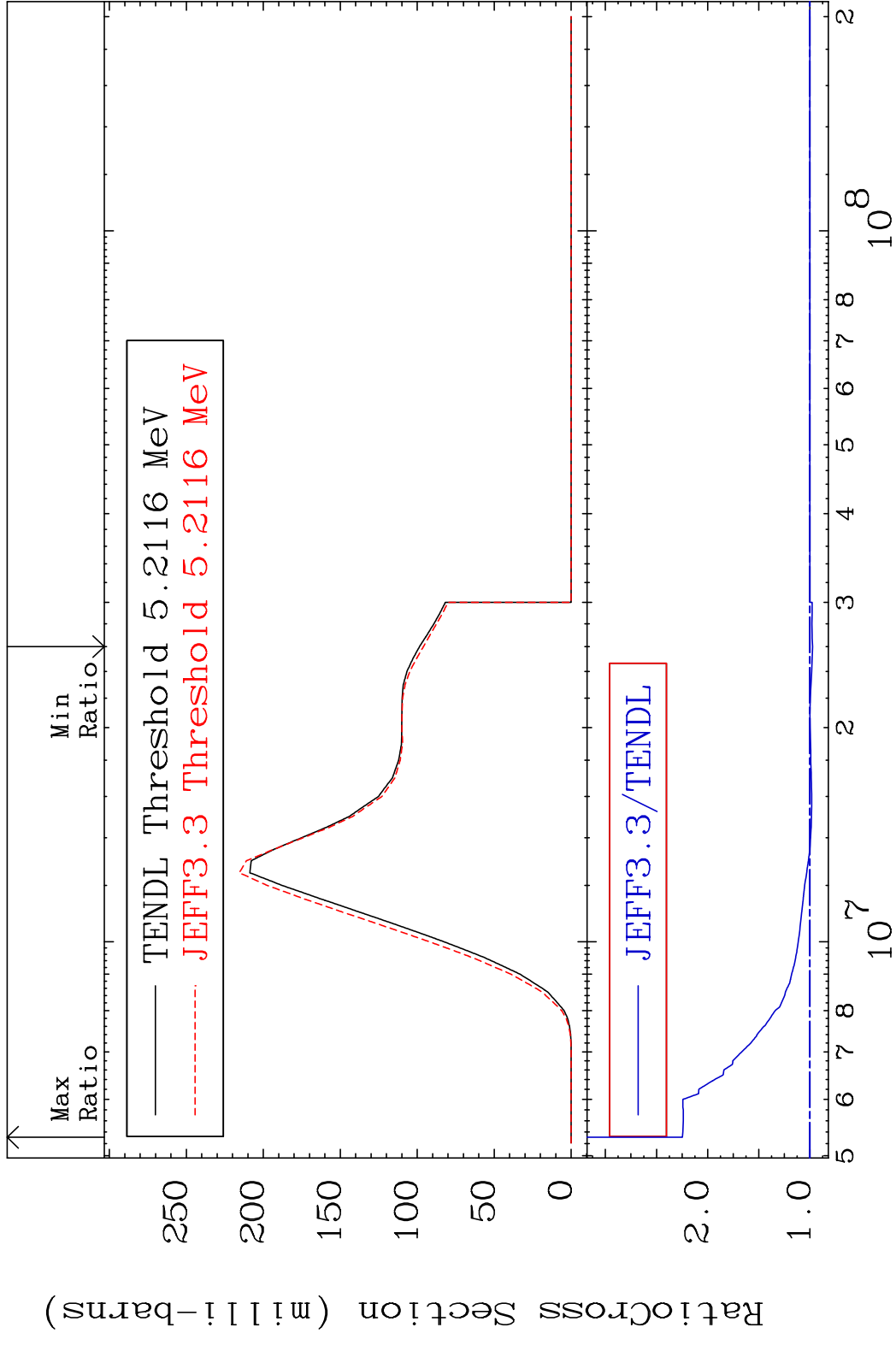


MAT 4119 (n,2n) α :39-Y -86g 41-Nb-91
 Radionuclide Production Cross Section Ratio 9999. %

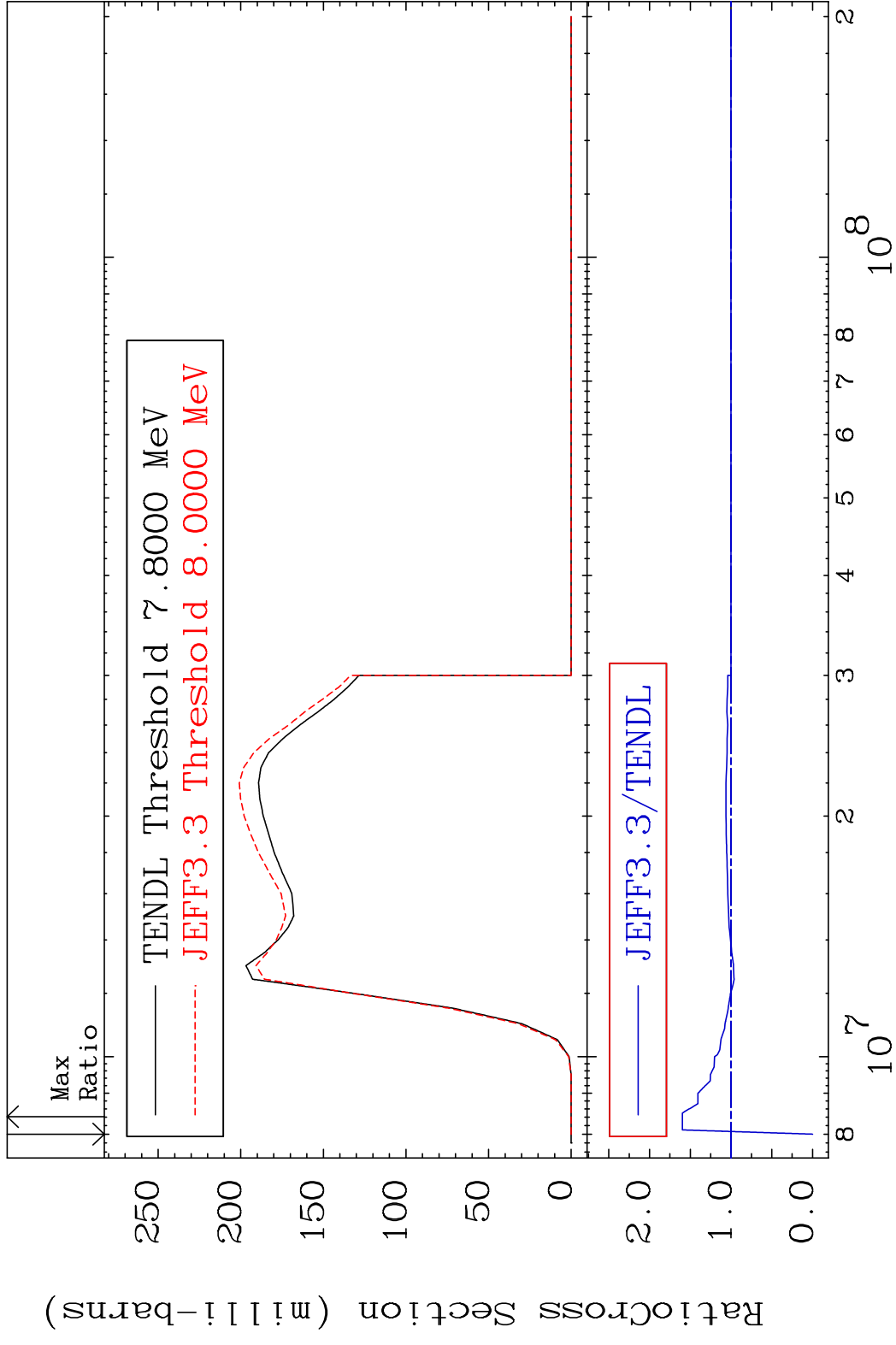




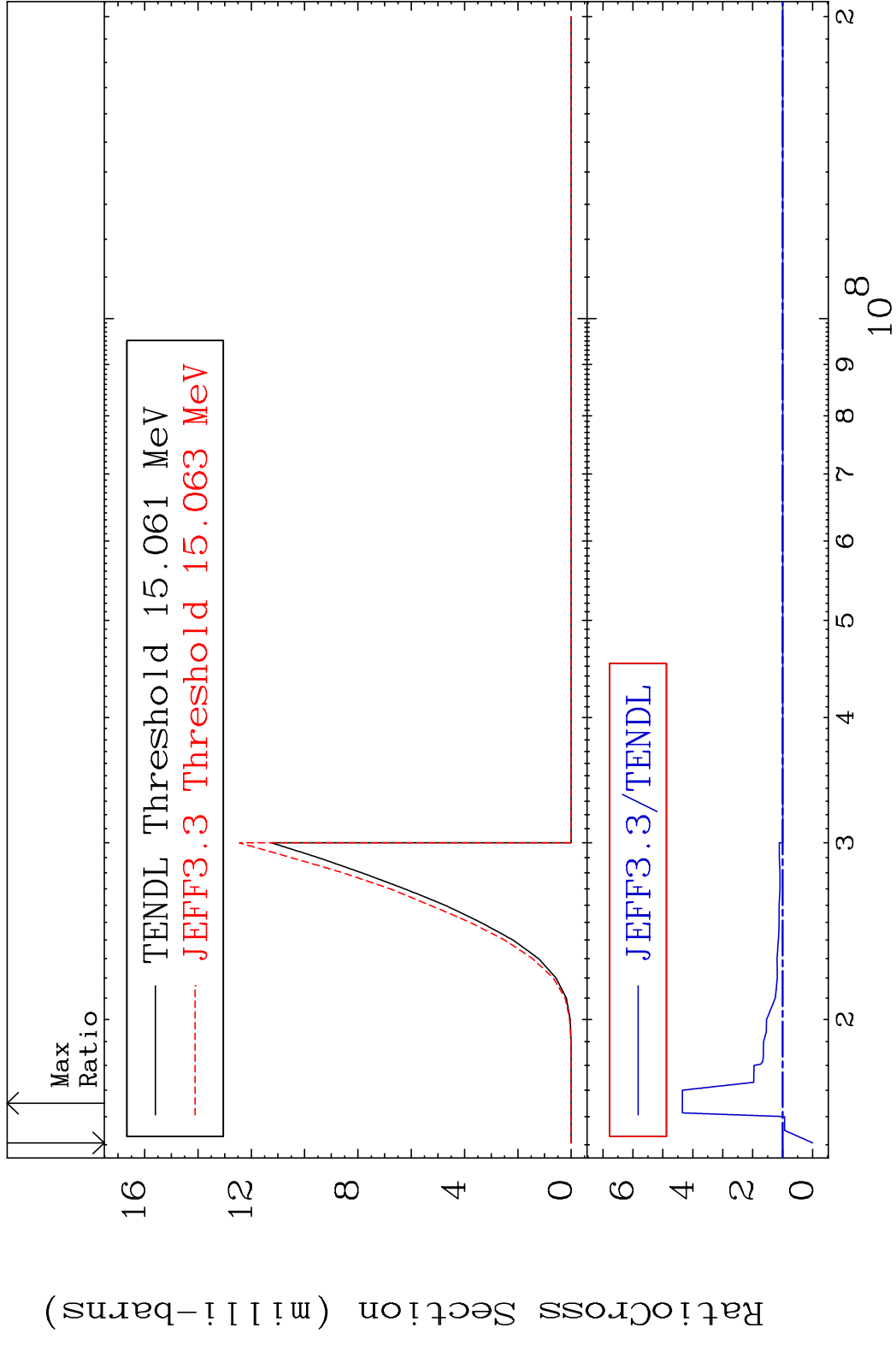
MAT 4119 (n, n') p:40-Zr-90g 41-Nb-91
 Radionuclide Production Cross Section 124.7 %



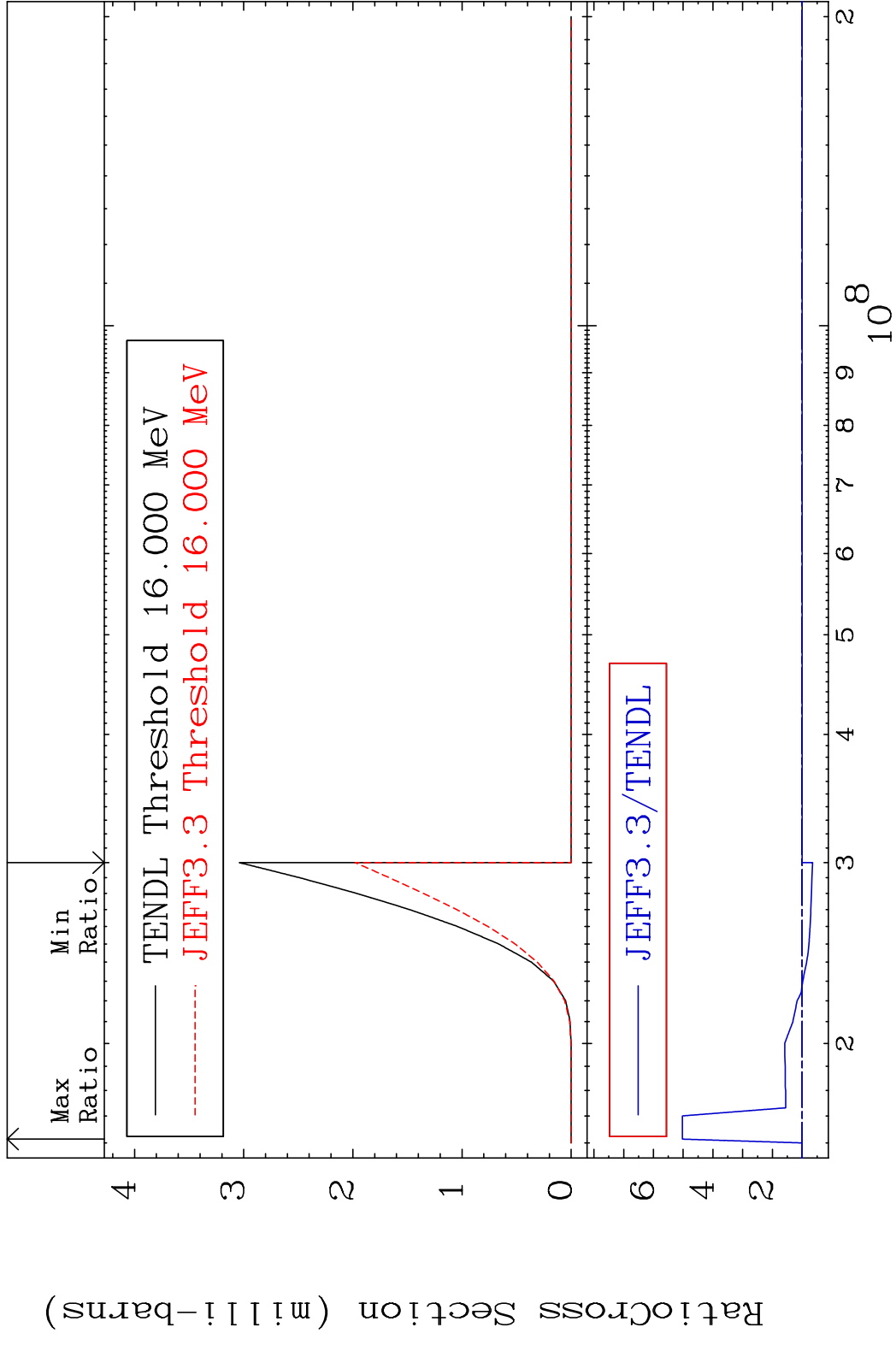
MAT 4119 (n, n') p:40-Zr-90m3 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 59.73 %



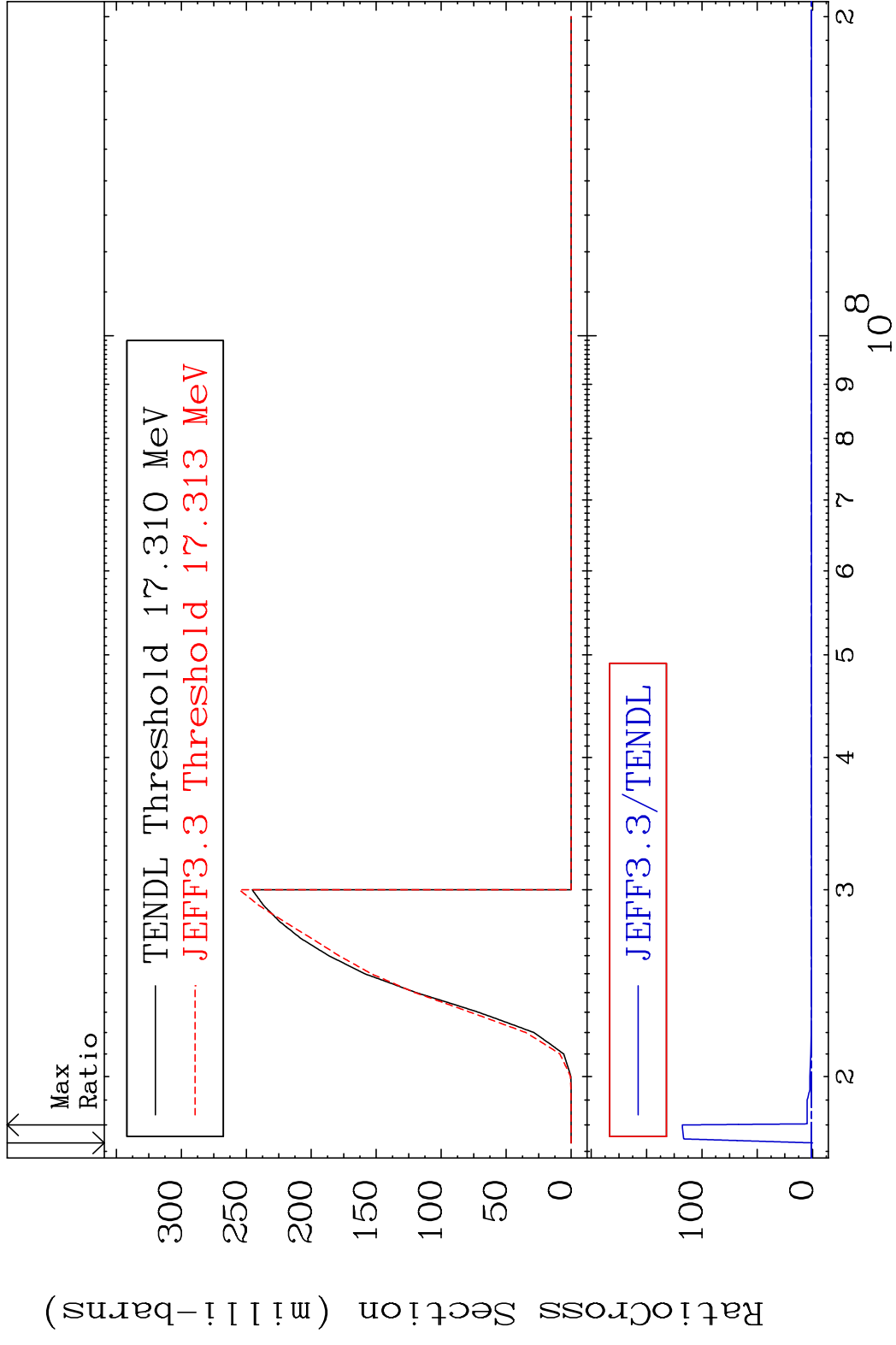
MAT 4119 (n, n') d:40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dth 334.9 %



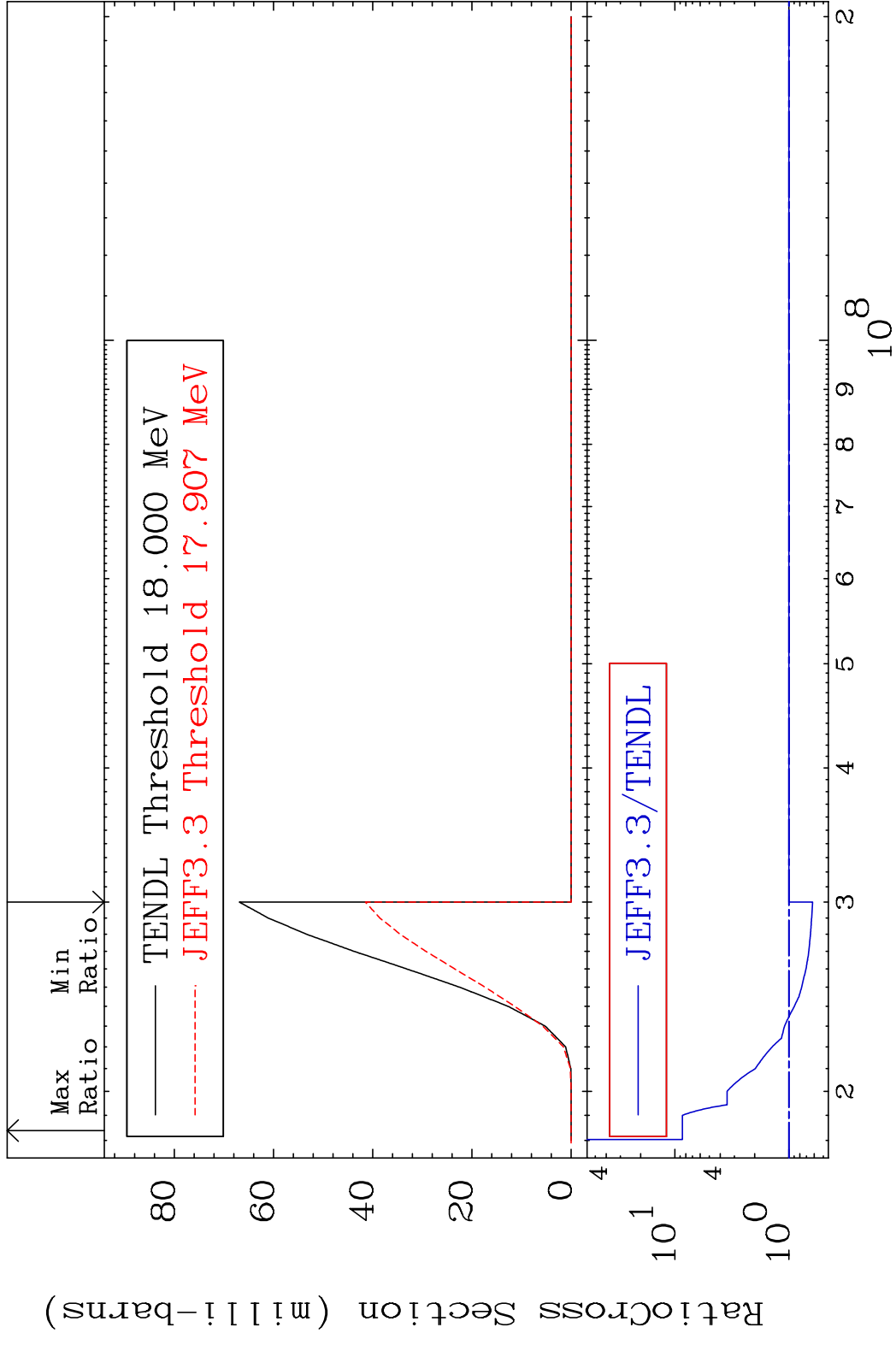
MAT 4119 (n, n') d:40-Zr-89m1 41-Nb-91
 Radionuclide Production Cross Section 402.8 %



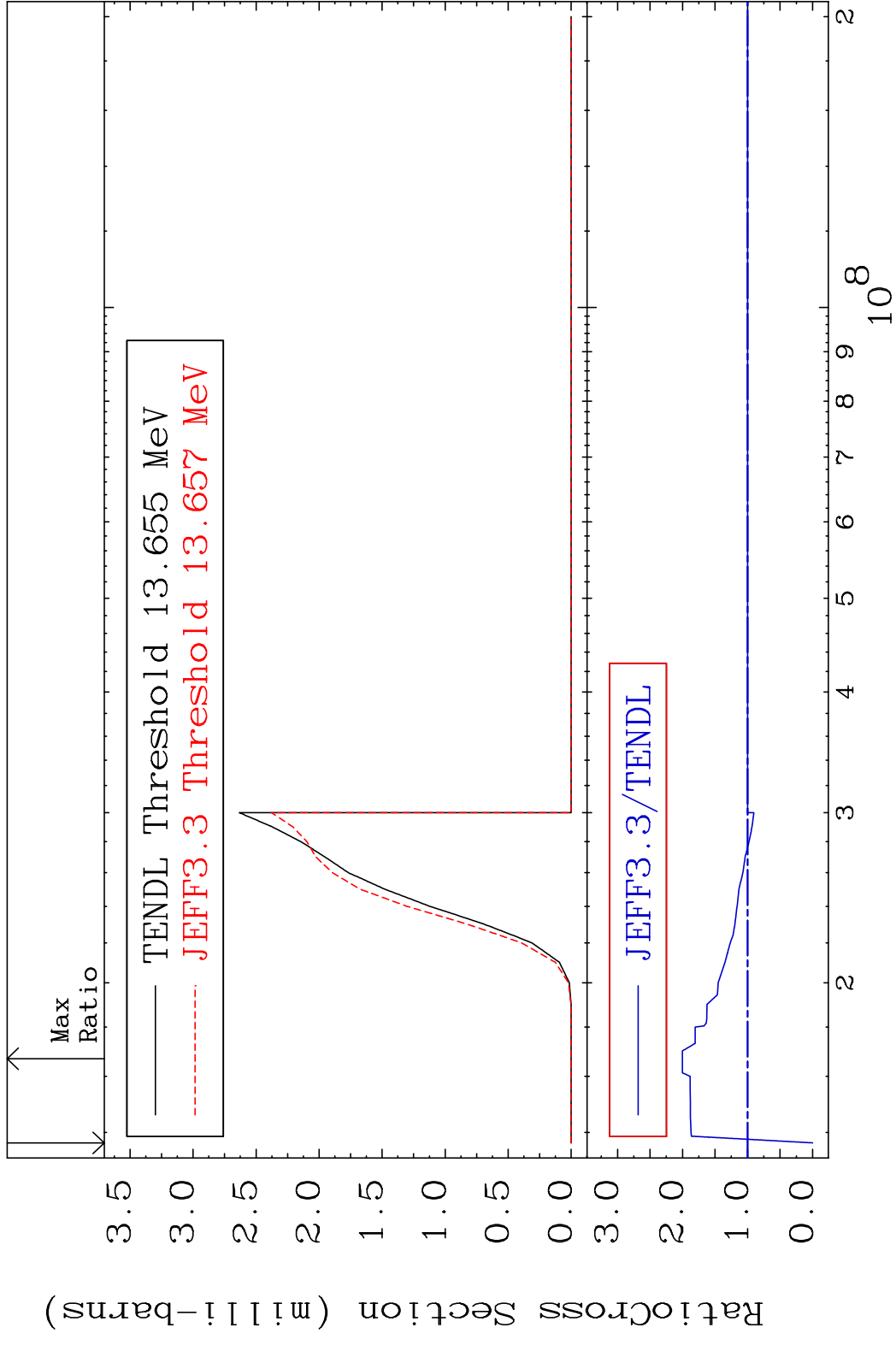
MAT 4119 (n,2n) p:40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section 18000 dno 9999. %



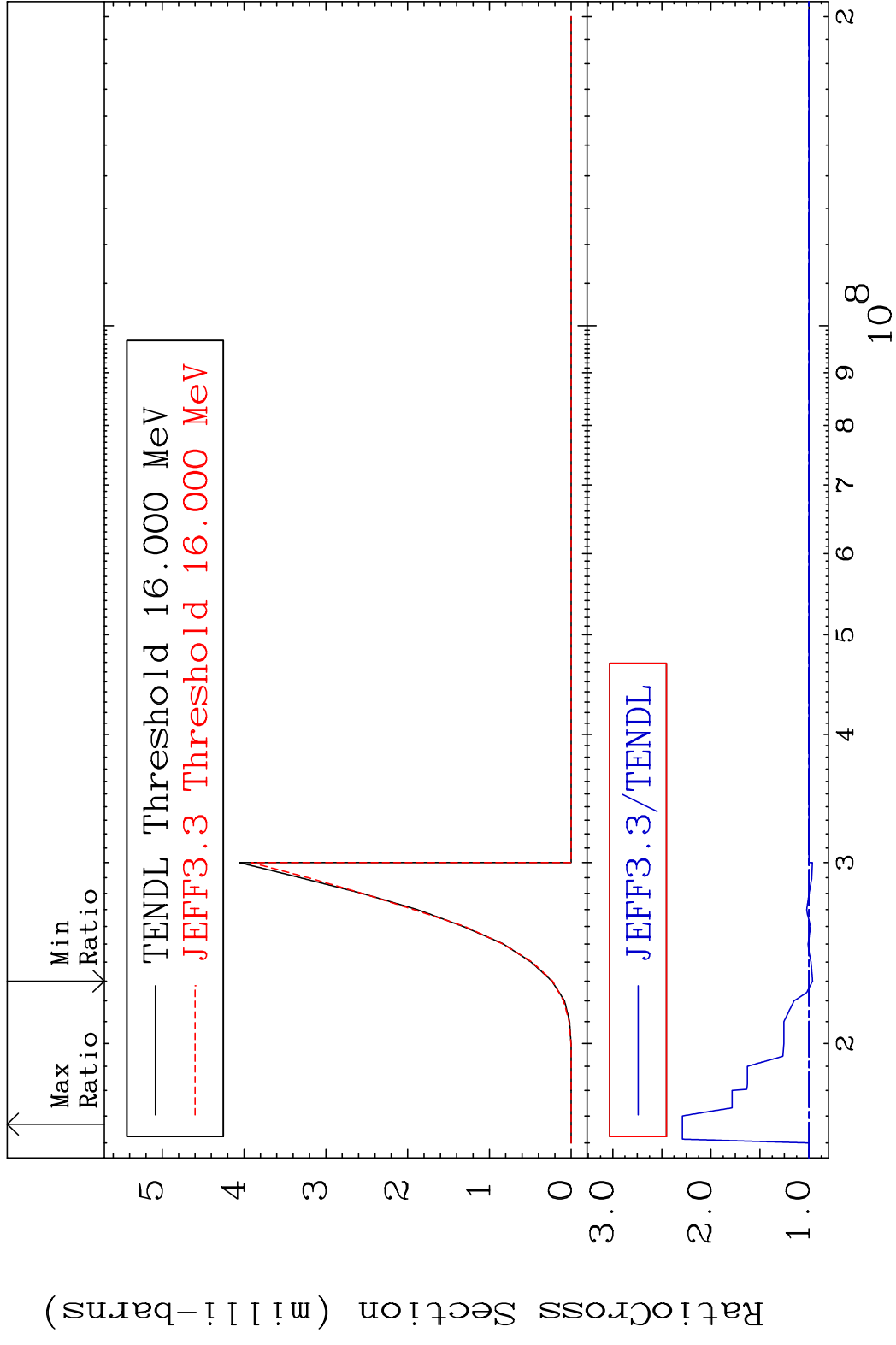
MAT 4119 (n,2n) p:40-Zr-89m1 41-Nb-91
 Radionuclide Production Cross Section 759.8 %

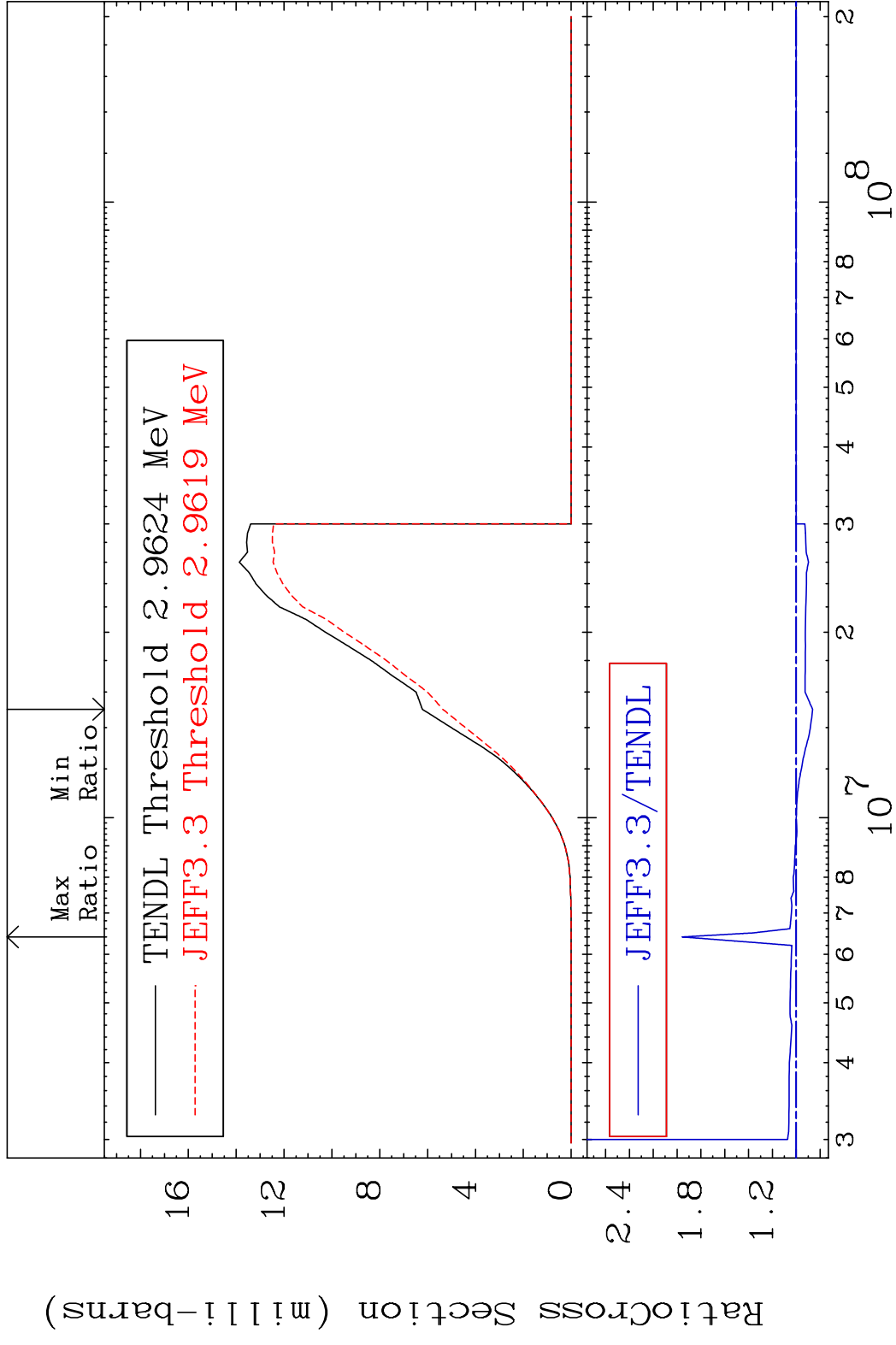


MAT 4119 (n,2n) p:39-Y -89g 41-Nb-91
 Radionuclide Production Cross Section 100.3 %



MAT 4119 (n,2n) p:39-Y -89m1 41-Nb-91
 Radionuclide Production Cross Section 3500 dth 129.0 %



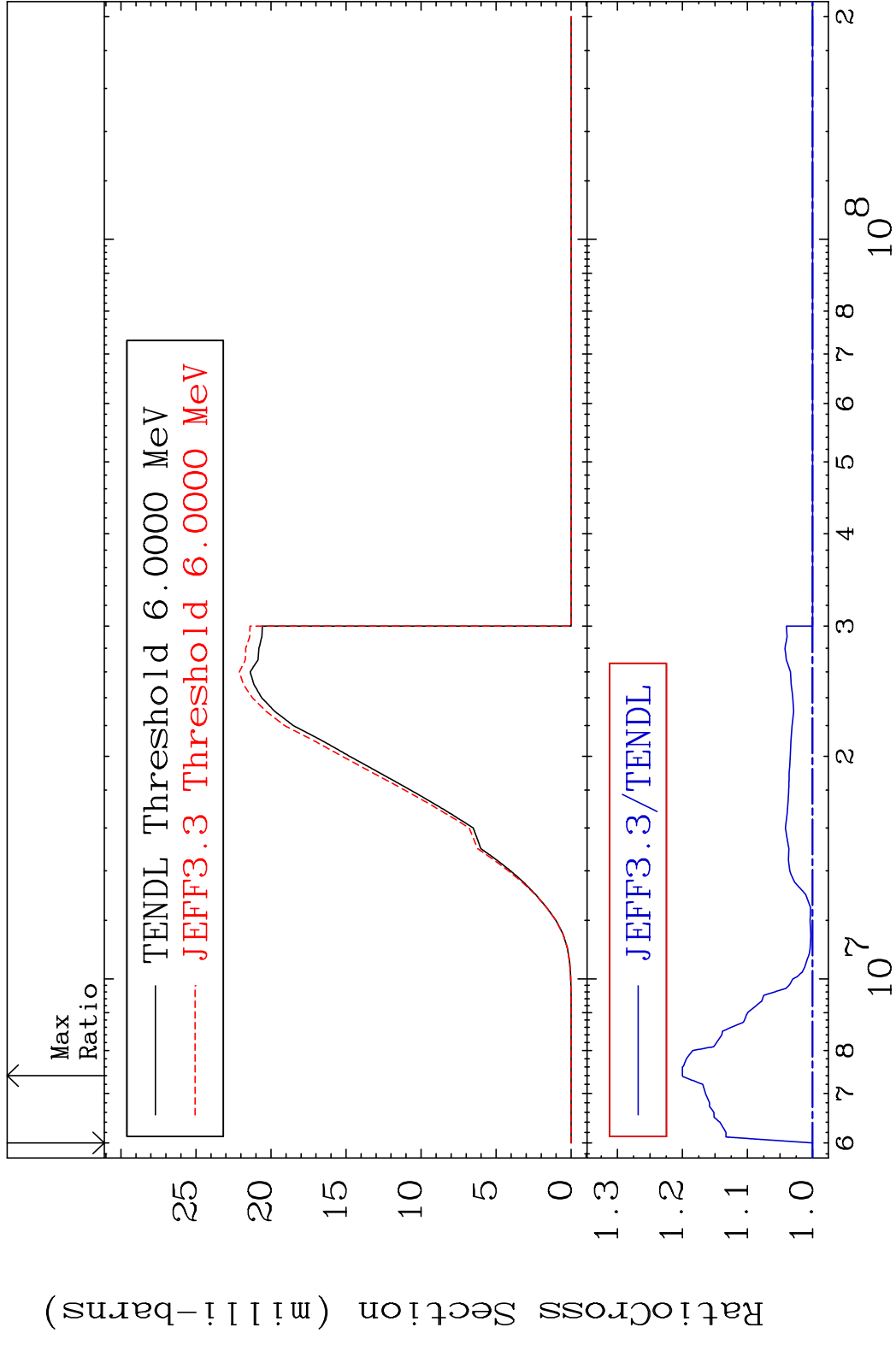


MAT 4119

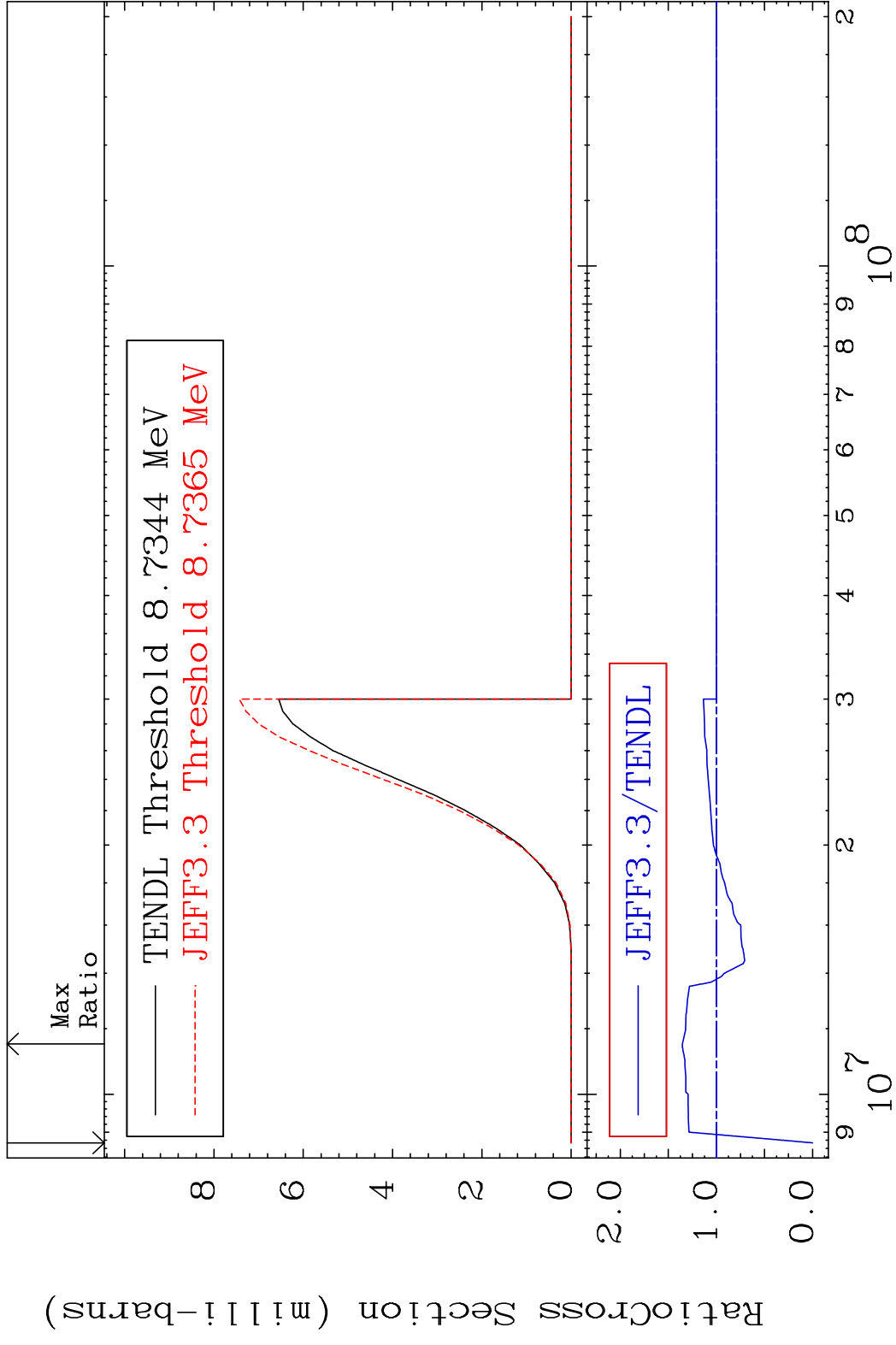
(n, d) : 40-Zr-90m3

41-Nb-91

Radionuclide Production Cross Section 20.01 %

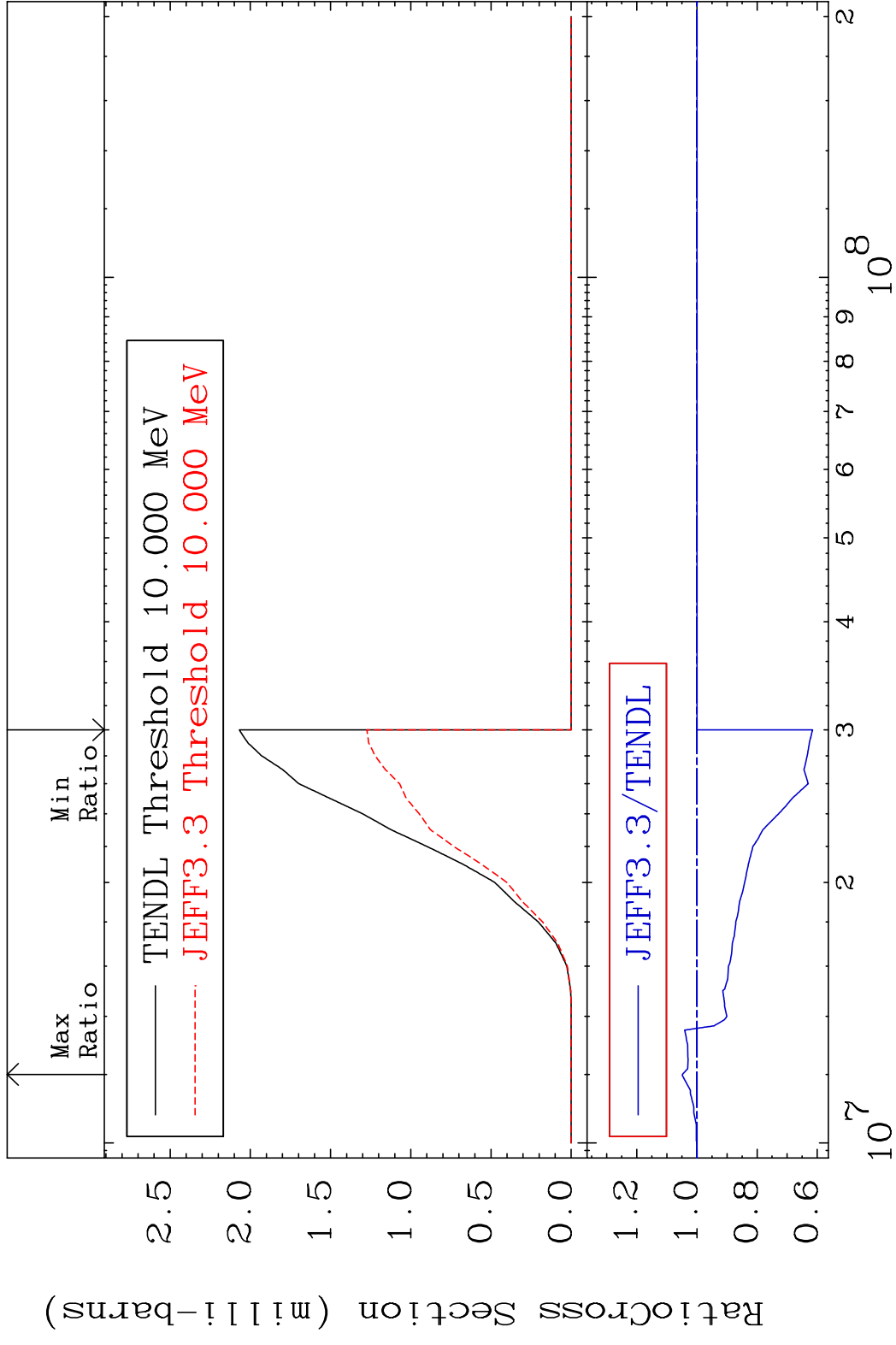


MAT 4119 (n, t): 40-Zr-89g 41-Nb-91
 Radionuclide Production Cross Section 180.01 dpo 35.44 %

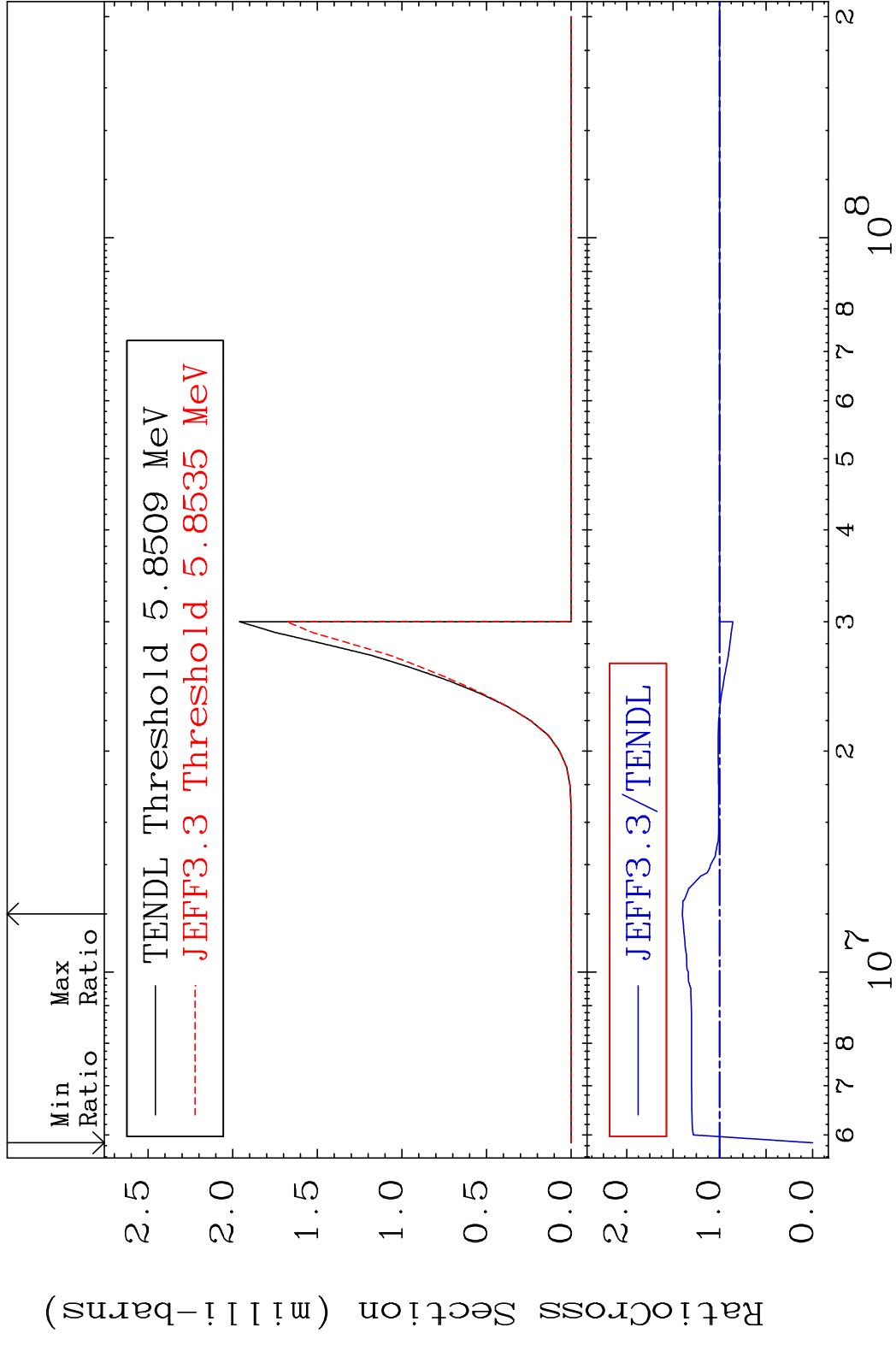


98 Incident Energy (eV) 41-Nb-91

MAT 4119 (n, t): 40-Zr-89m1 41-Nb-91
 Radionuclide Production Cross Section 4.827 %

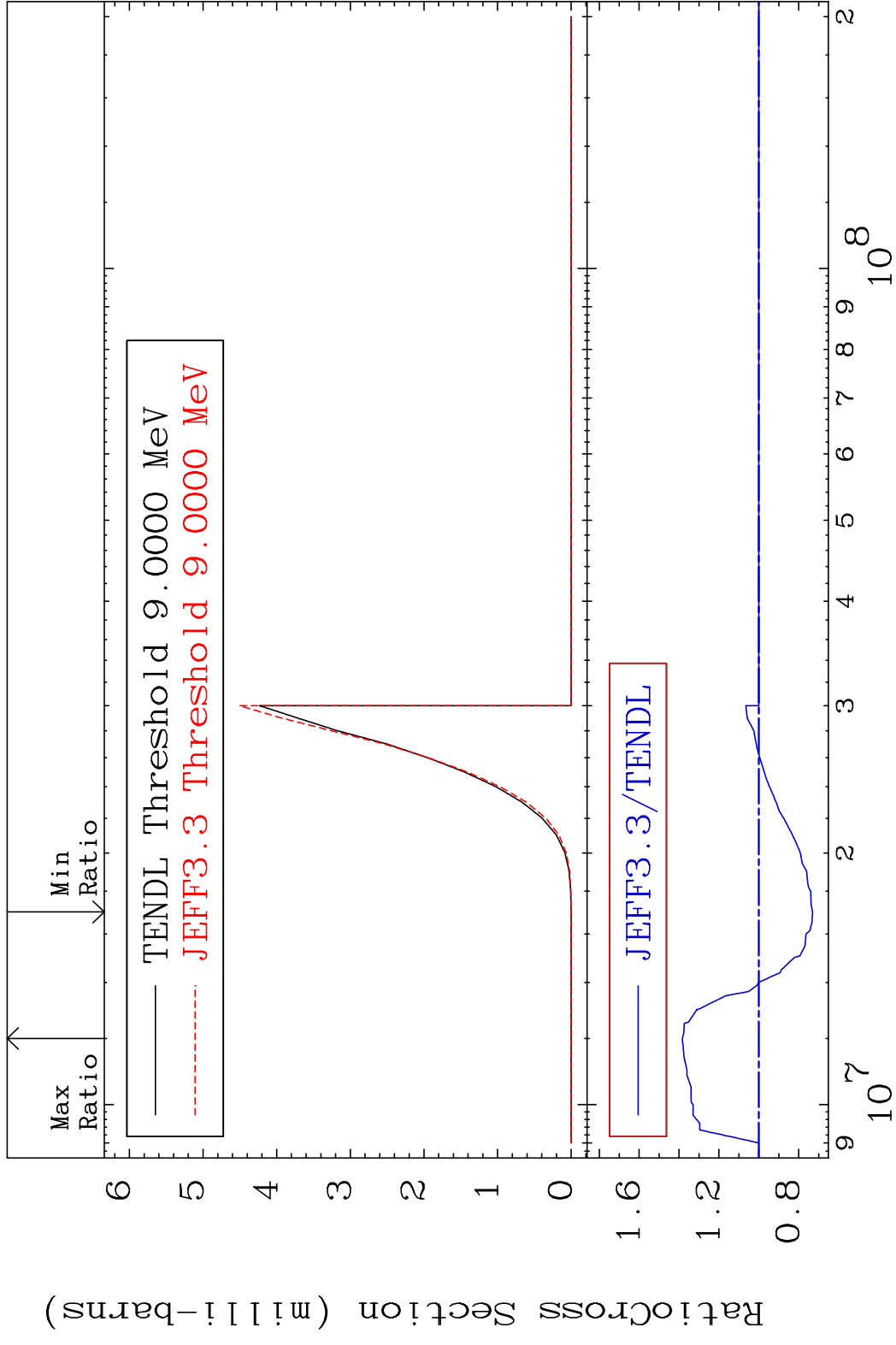


MAT 4119 (n, He-3):39-Y -89g 41-Nb-91
 Radionuclide Production Cross Section 40.08 %



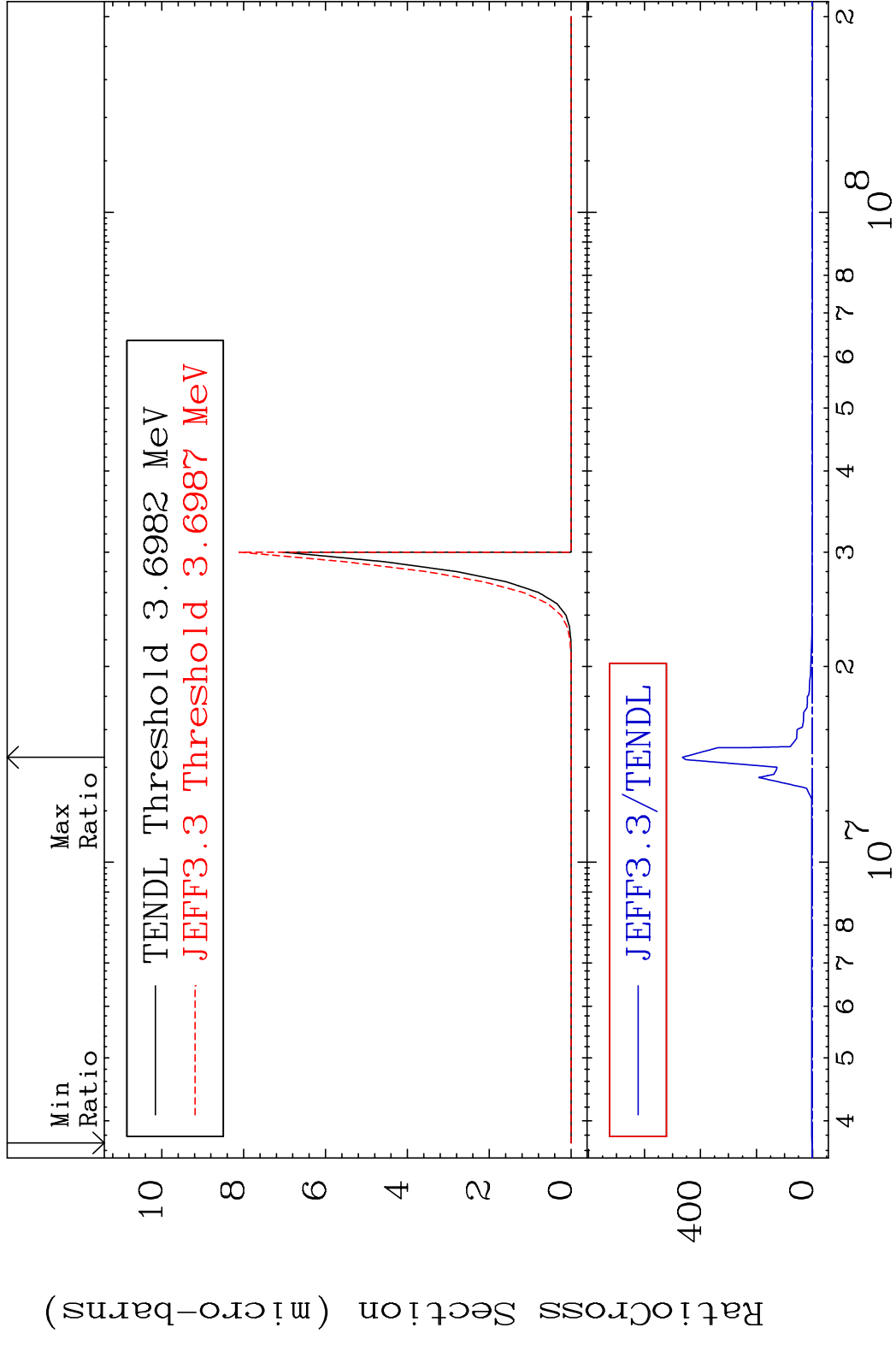
100 Incident Energy (eV) 41-Nb-91

MAT 4119 (n, He-3):39-Y -89m1 41-Nb-91
 Radionuclide Production Cross Section 38.94 d10 38.34 %

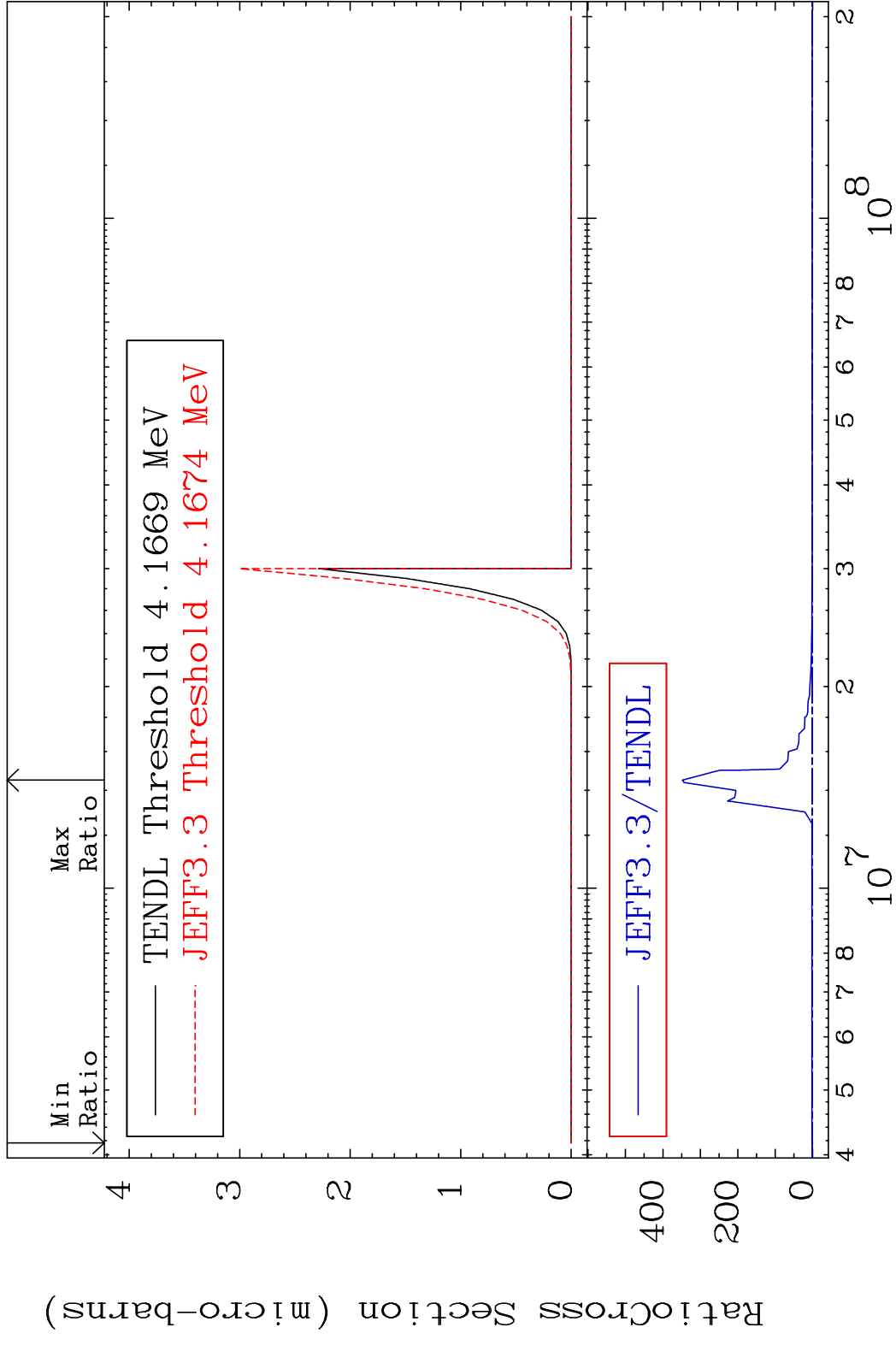


101 Incident Energy (eV) 41-Nb-91

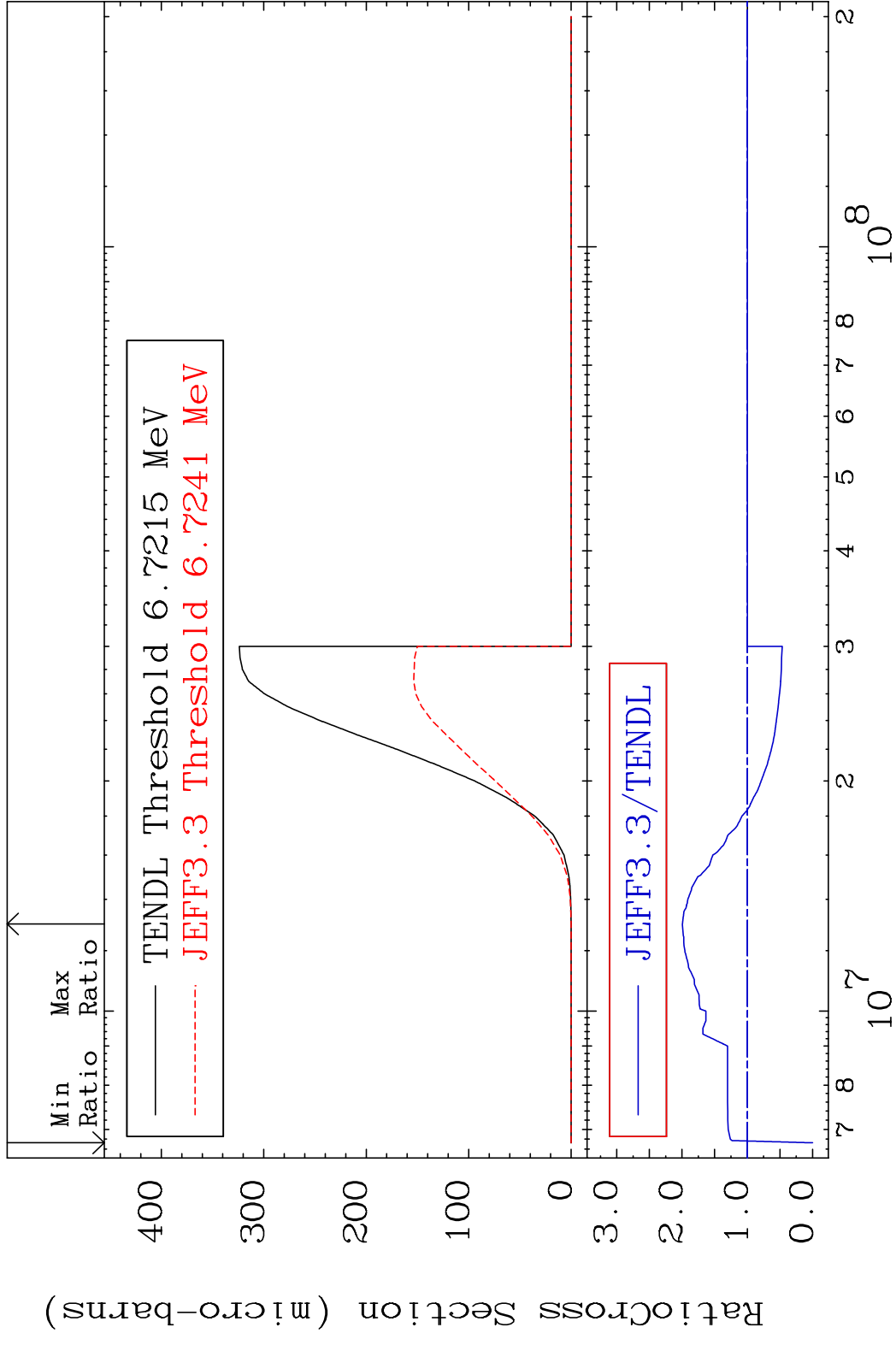
MAT 4119 (n,2α):37-Rb-84g 41-Nb-91
 Radionuclide Production Cross Section (%) 9999. %



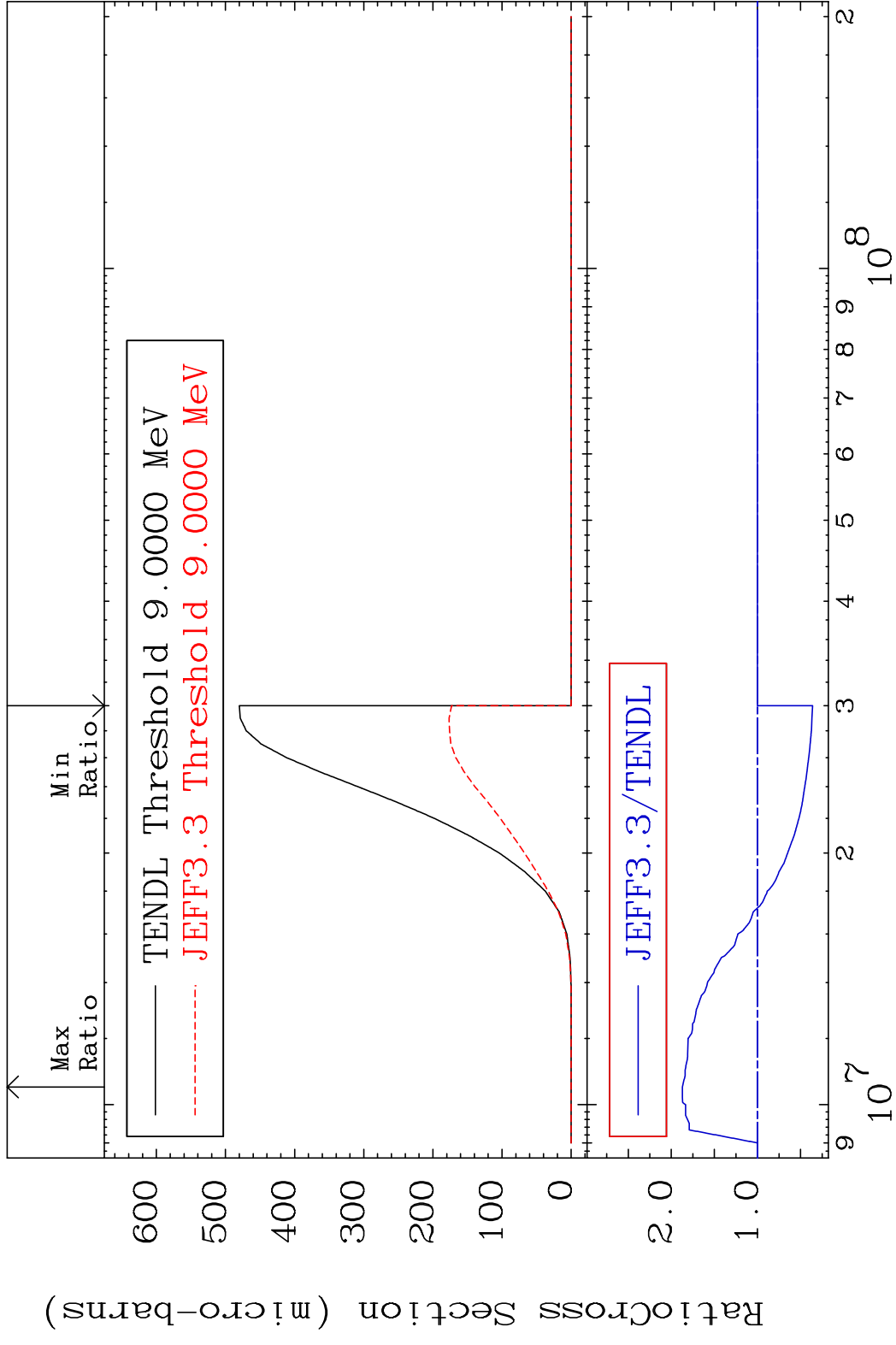
MAT 4119 (n,2α):37-Rb-84m2 41-Nb-91
 Radionuclide Production Cross Section (%) 100.00 to 9999.00



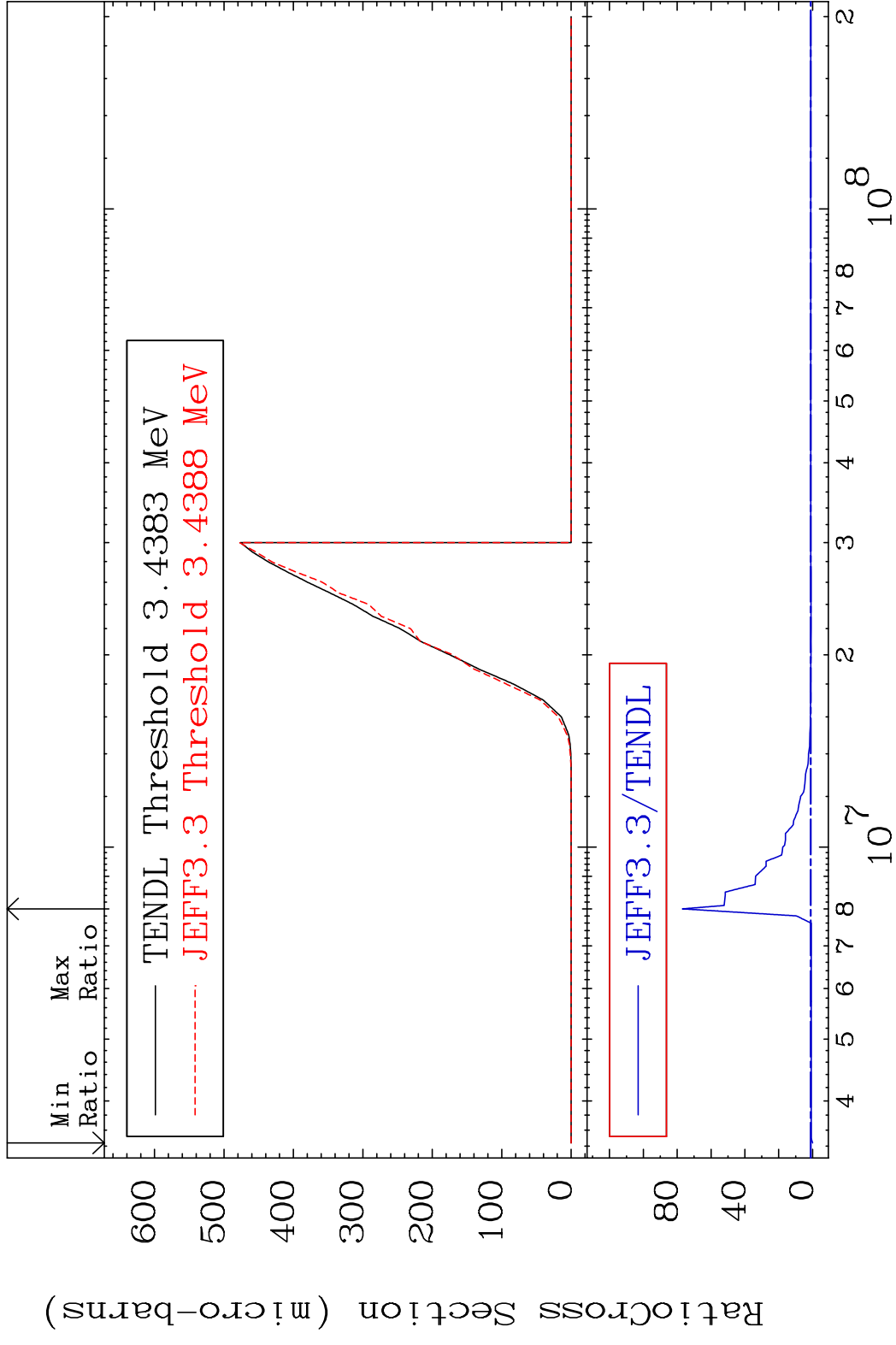
MAT 4119 (n,2p):39-Y -90g 41-Nb-91
 Radionuclide Production Cross Section 100.00 to 99.49 %



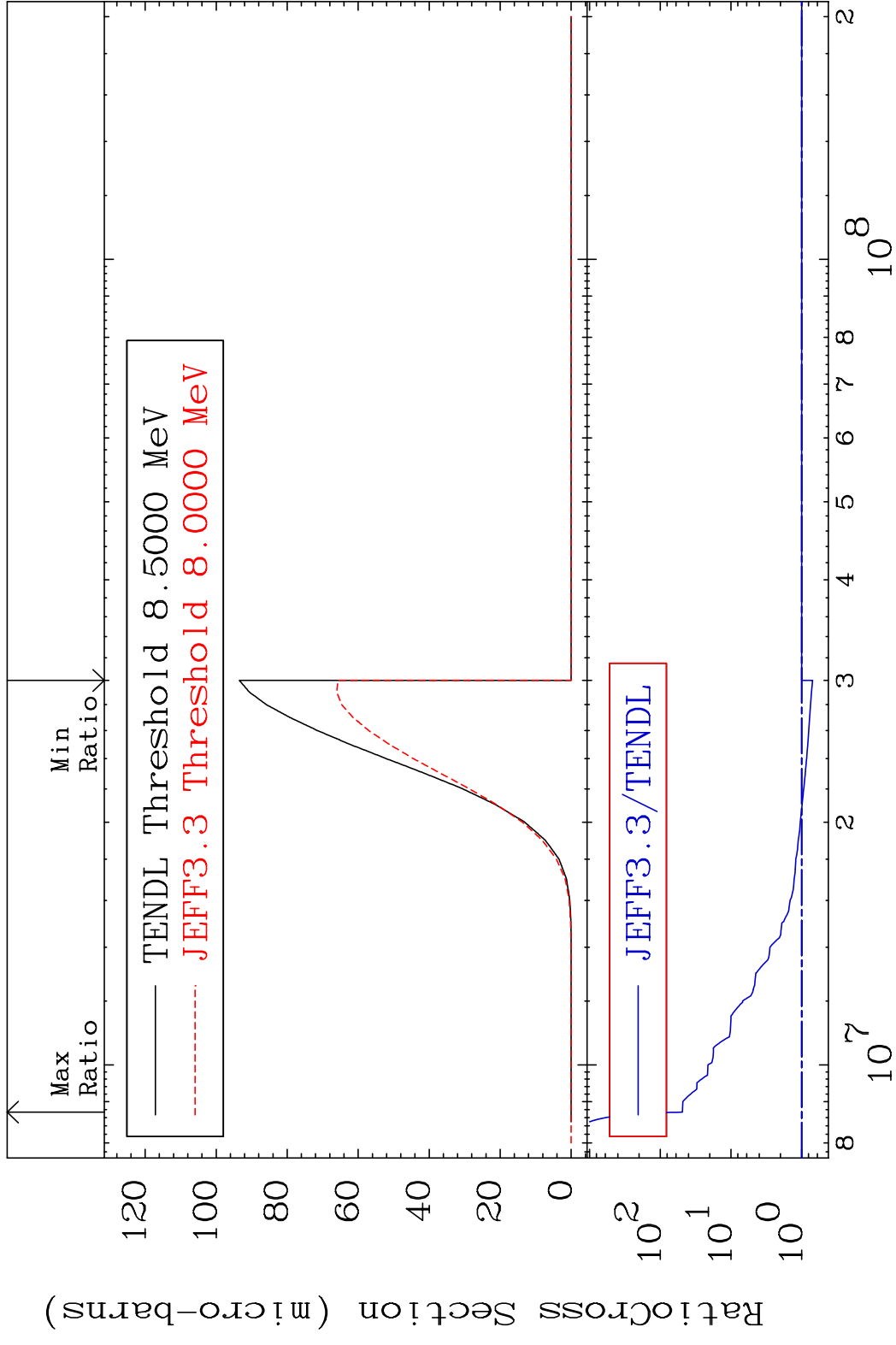
MAT 4119 (n,2p):39-Y -90m2 41-Nb-91
 Radionuclide Production Cross Section 87.18 %



105 Incident Energy (eV) 41-Nb-91



MAT 4119 (n,p) α :38-Sr-87m1 41-Nb-91
 Radionuclide Production Cross Section 4782. %



107 Incident Energy (eV) 41-Nb-91

