

Program Complot  
(Version 2021-1)

by

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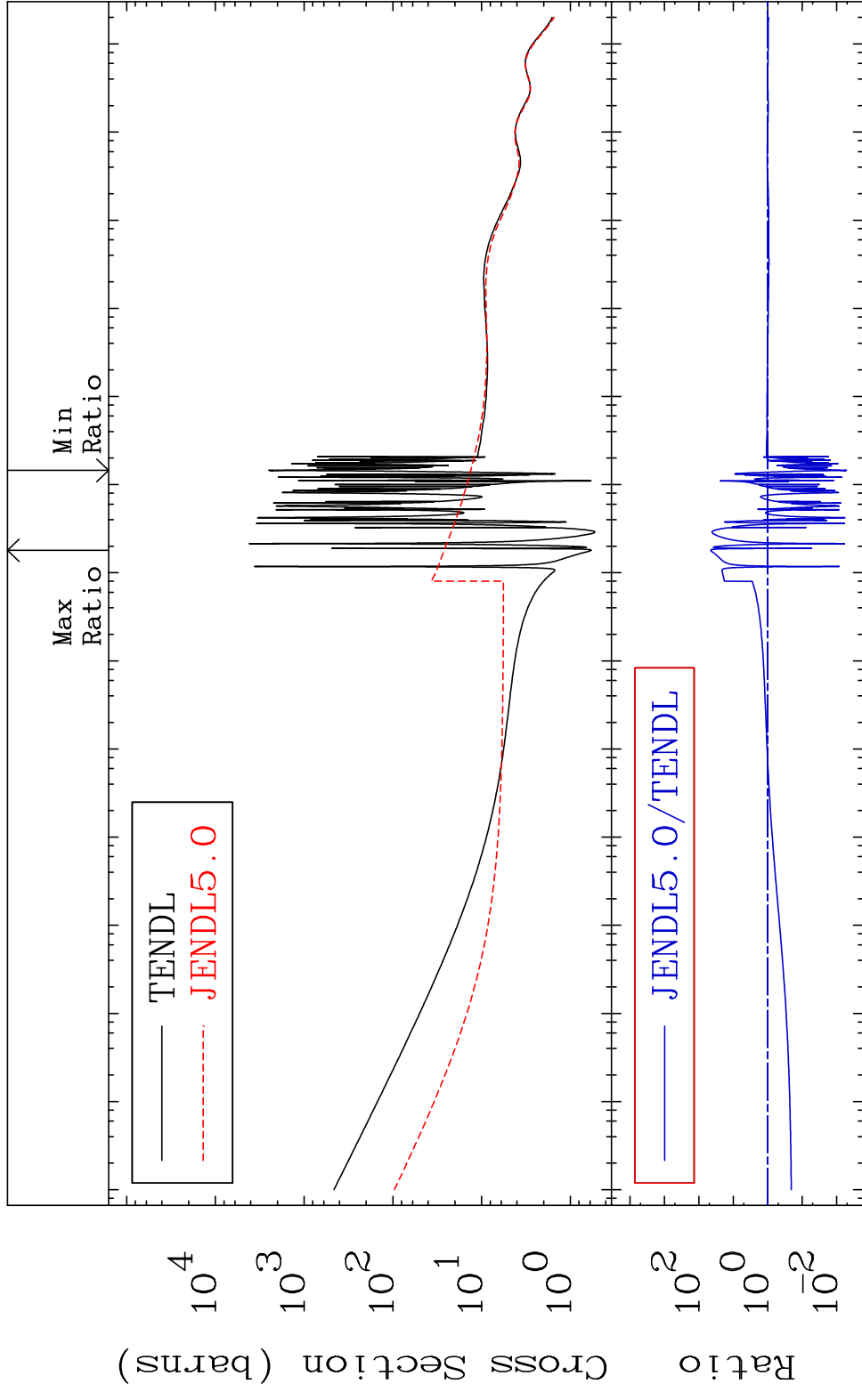
Press Mouse Button to Start

MAT 4119

41-Nb-91

Total

Cross Section -99.47 To 4442. %



10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

1

Incident Energy (eV)

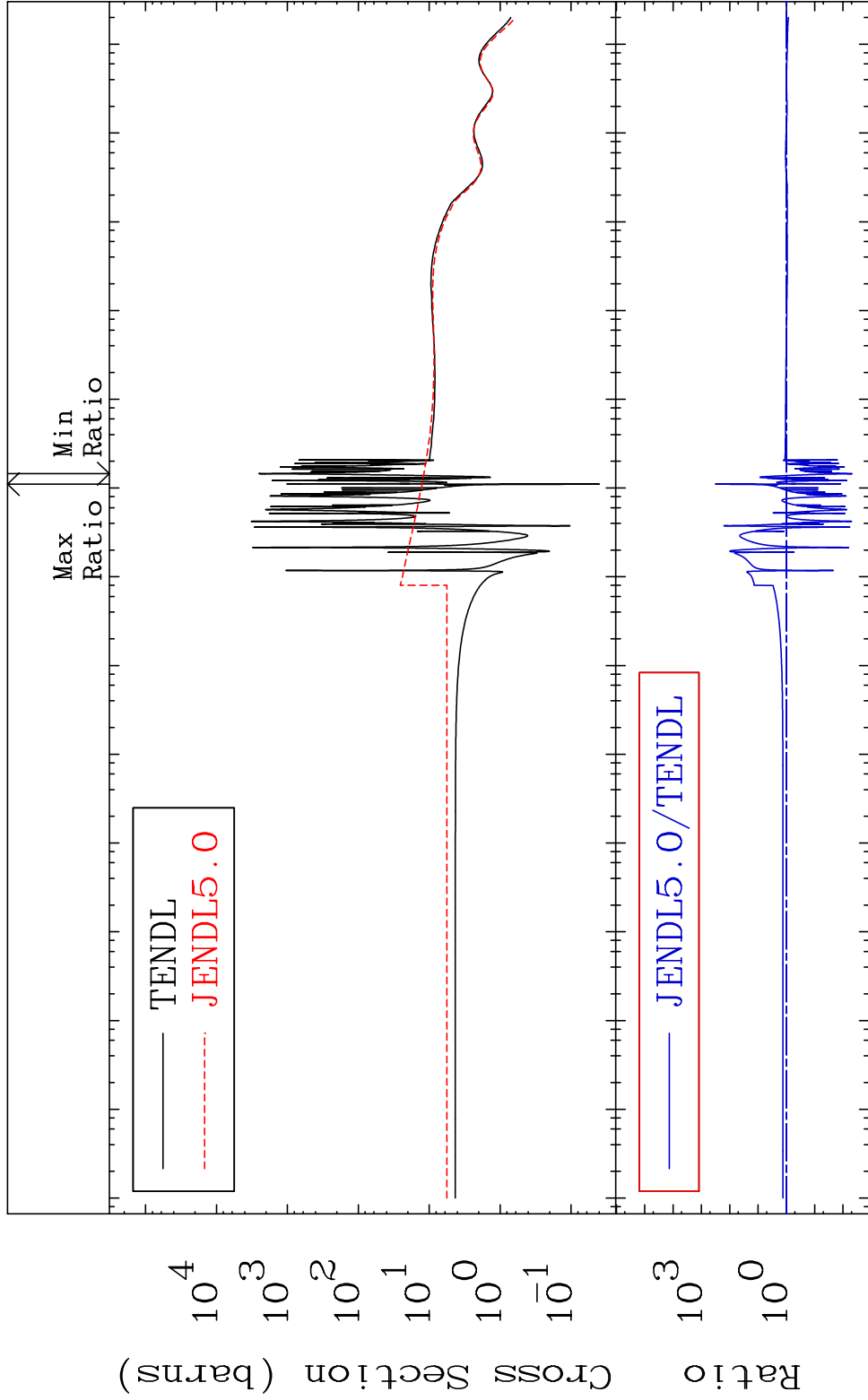
41-Nb-91

MAT 4119

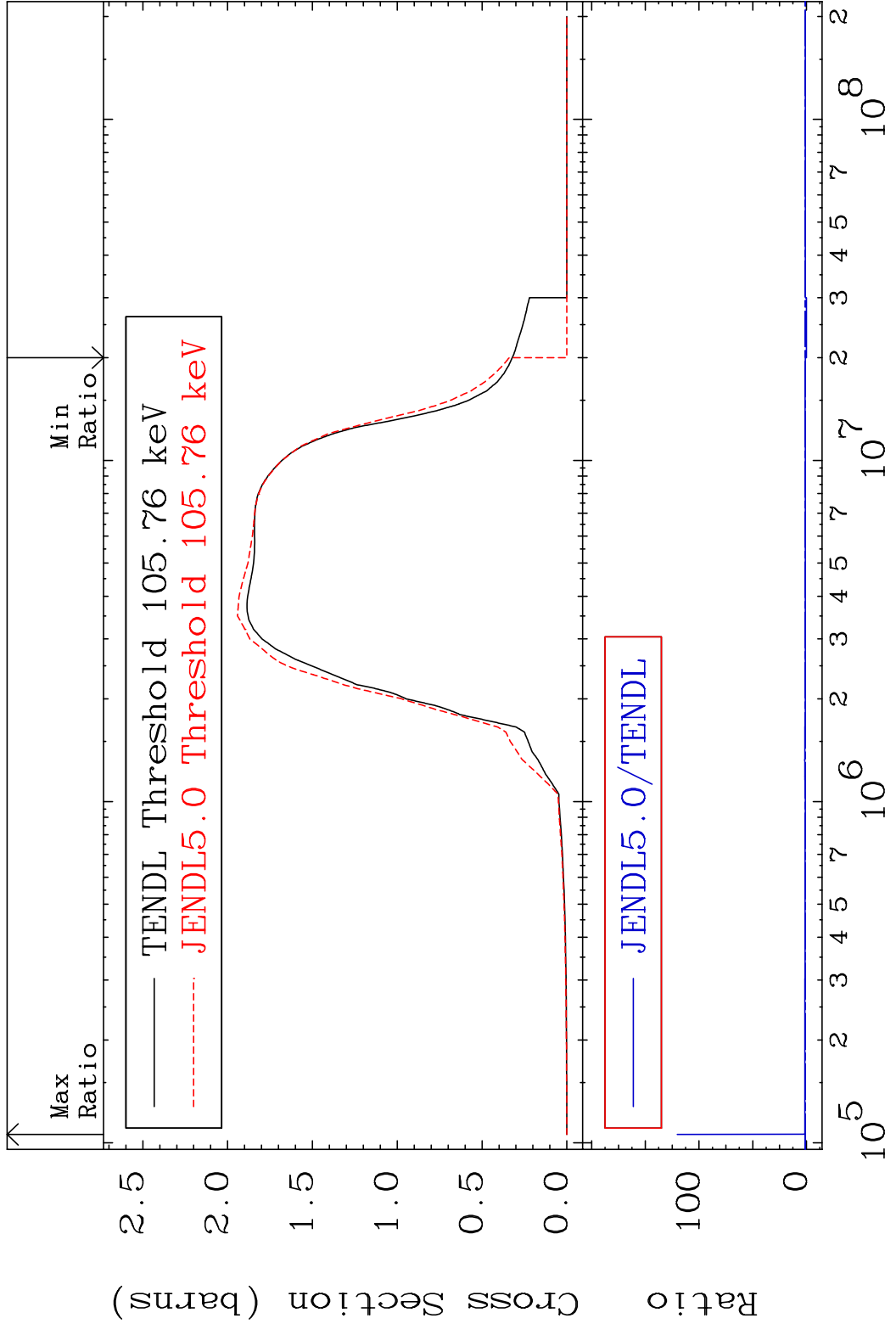
Elastic

41-Nb-91

Cross Section -99.52 To 9999. %

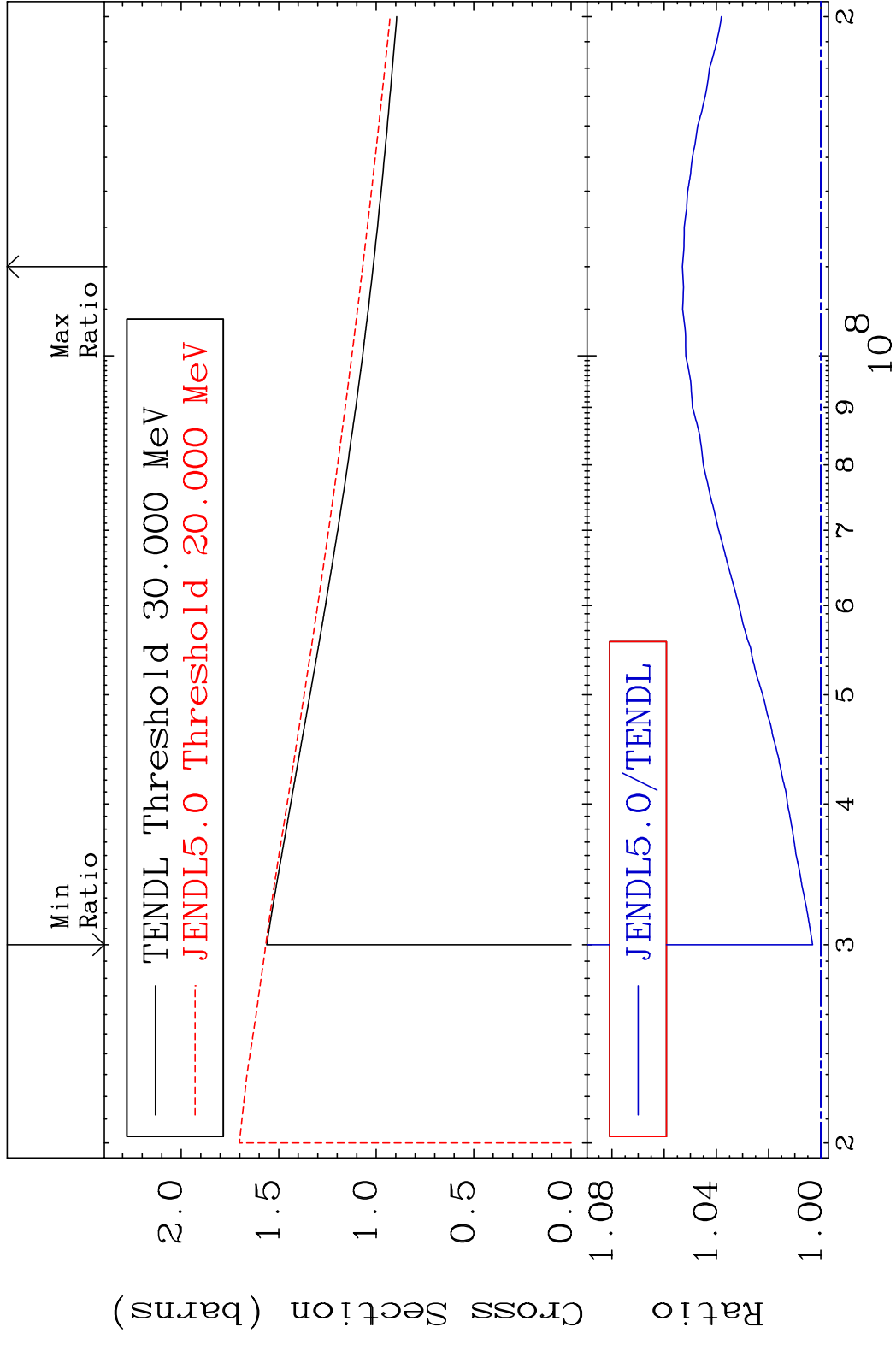


MAT 4119 Inelastic Cross Section -100.0 To 9999. % 41-Nb-91



3 Incident Energy (eV) 41-Nb-91

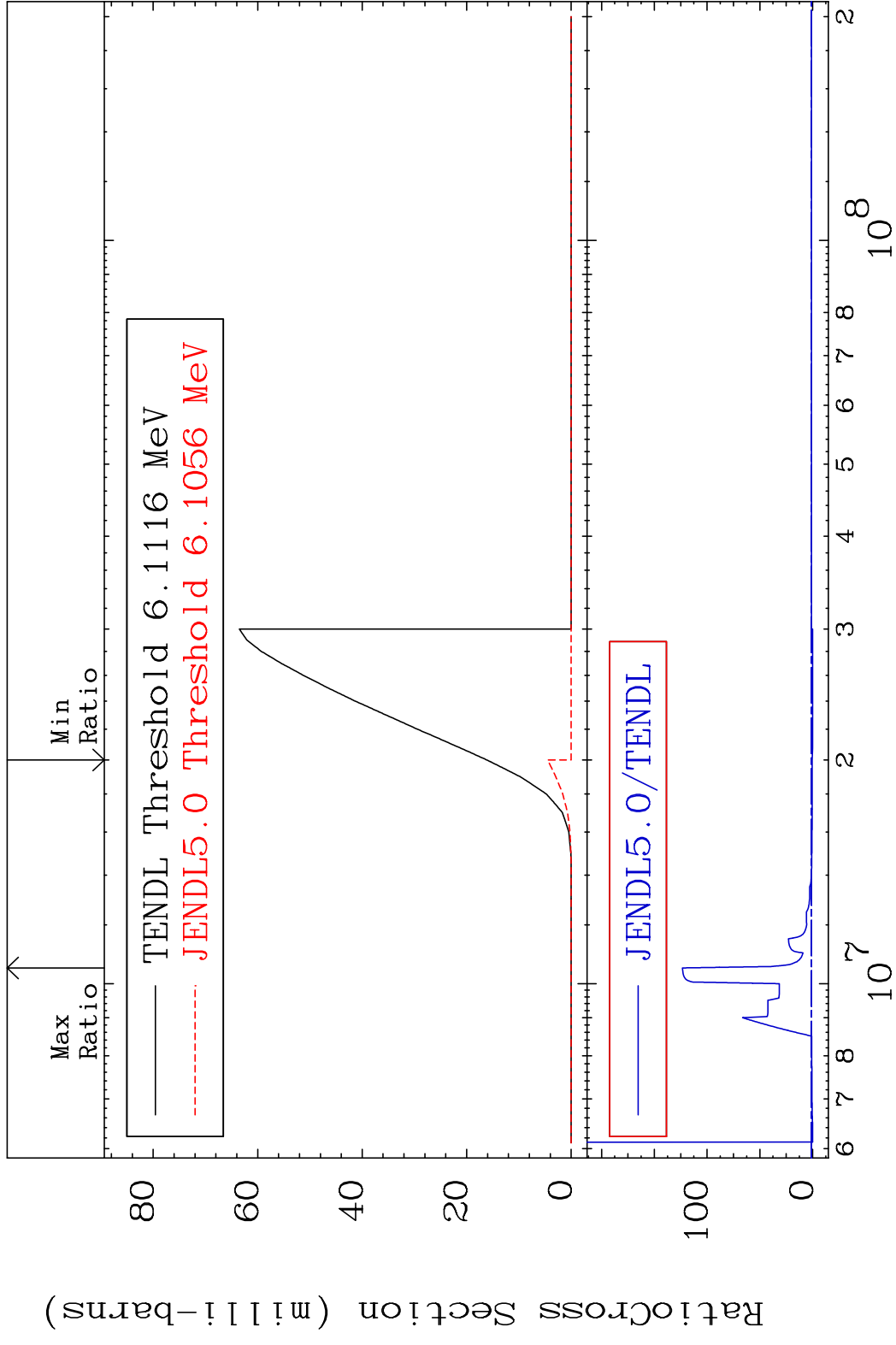
MAT 4119 (n, remainder) 41-Nb-91  
 Cross Section 0.318 To 5.306 %



4 Incident Energy (eV) 41-Nb-91

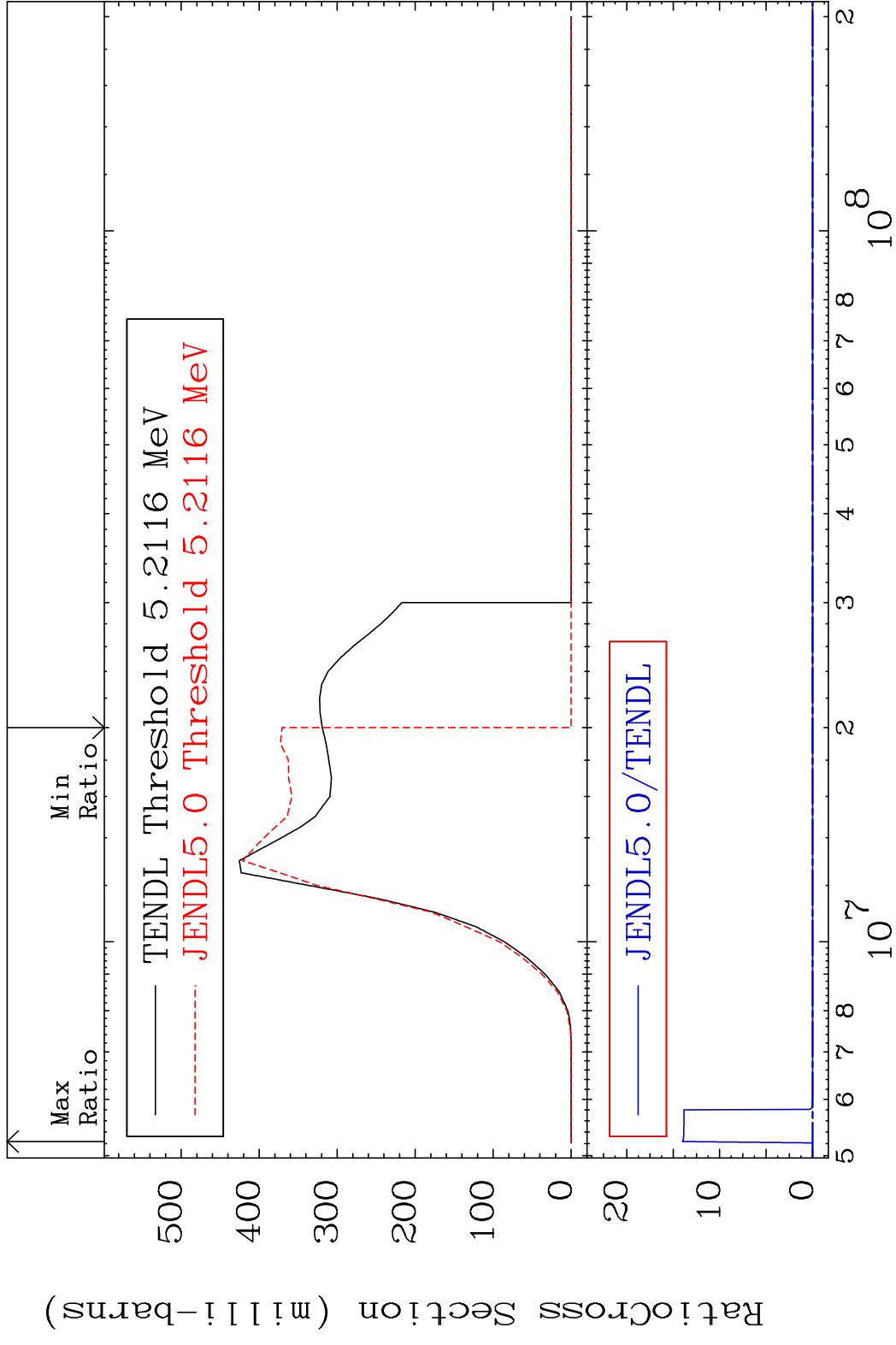


MAT 4119 (n, n')  $\alpha$  41-Nb-91  
 Cross Section -100.0 To 9999. %

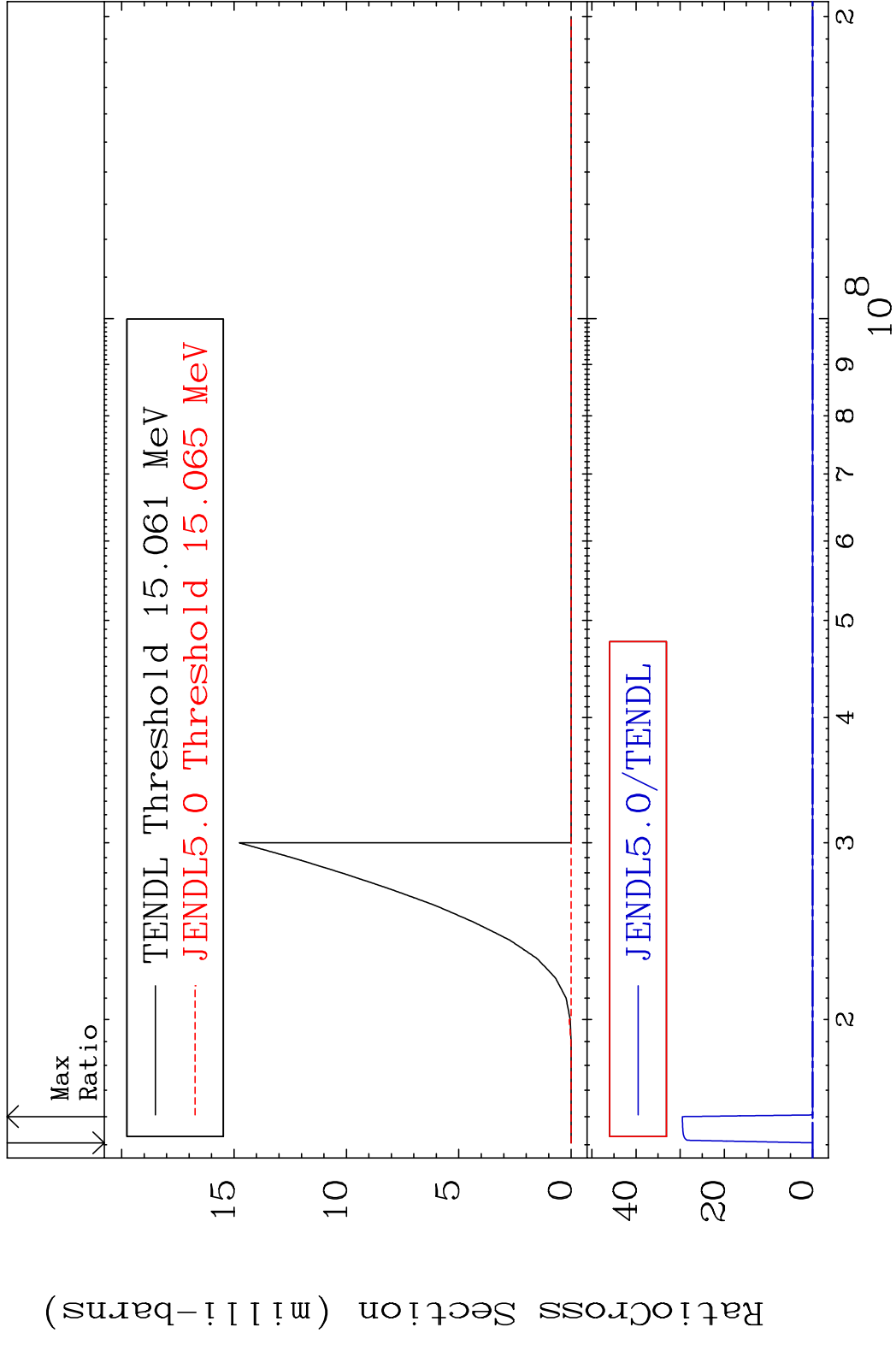


6 Incident Energy (eV) 41-Nb-91

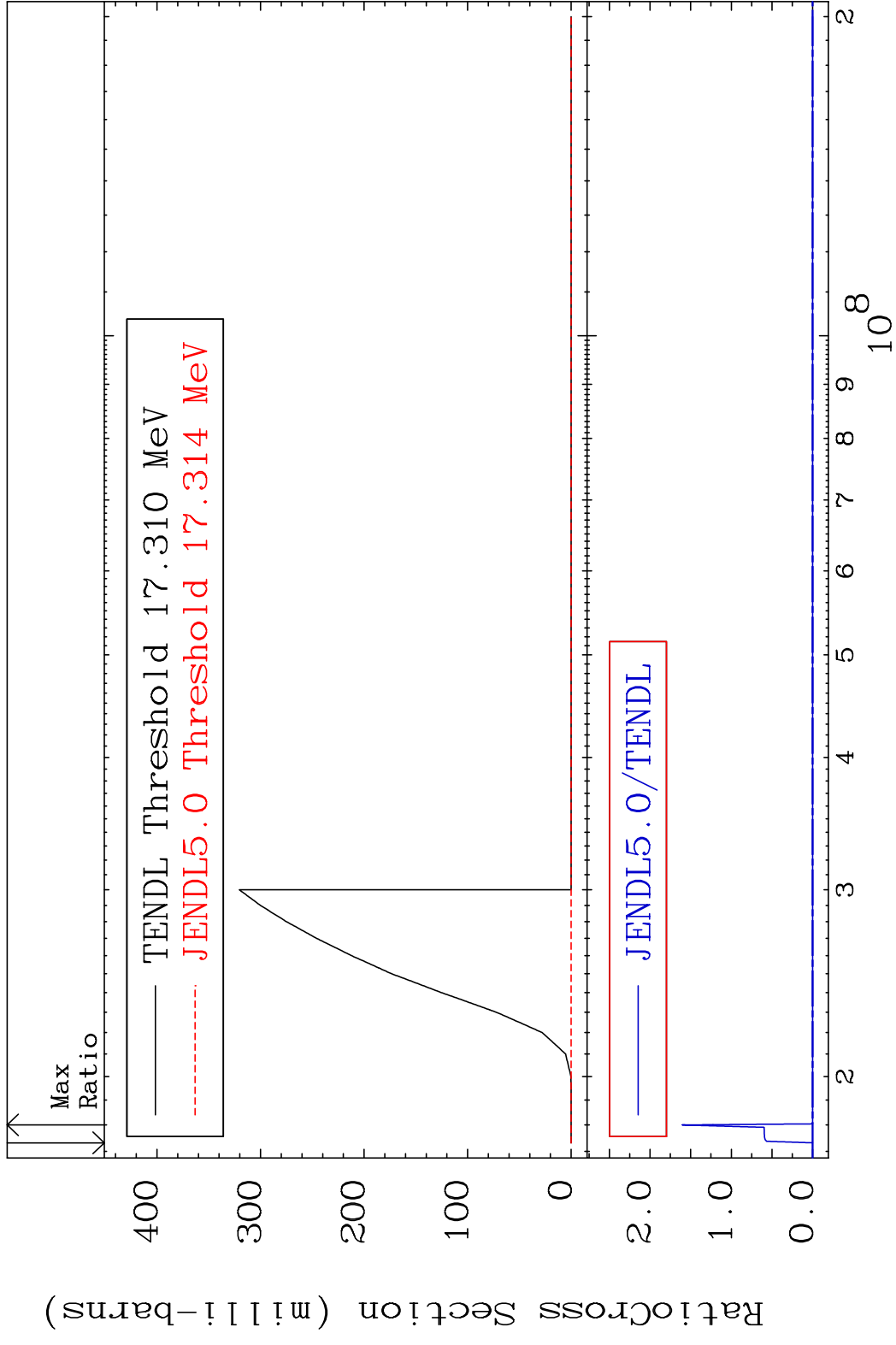
MAT 4119 (n, n') p 41-Nb-91  
 Cross Section -100.0 To 9999. %



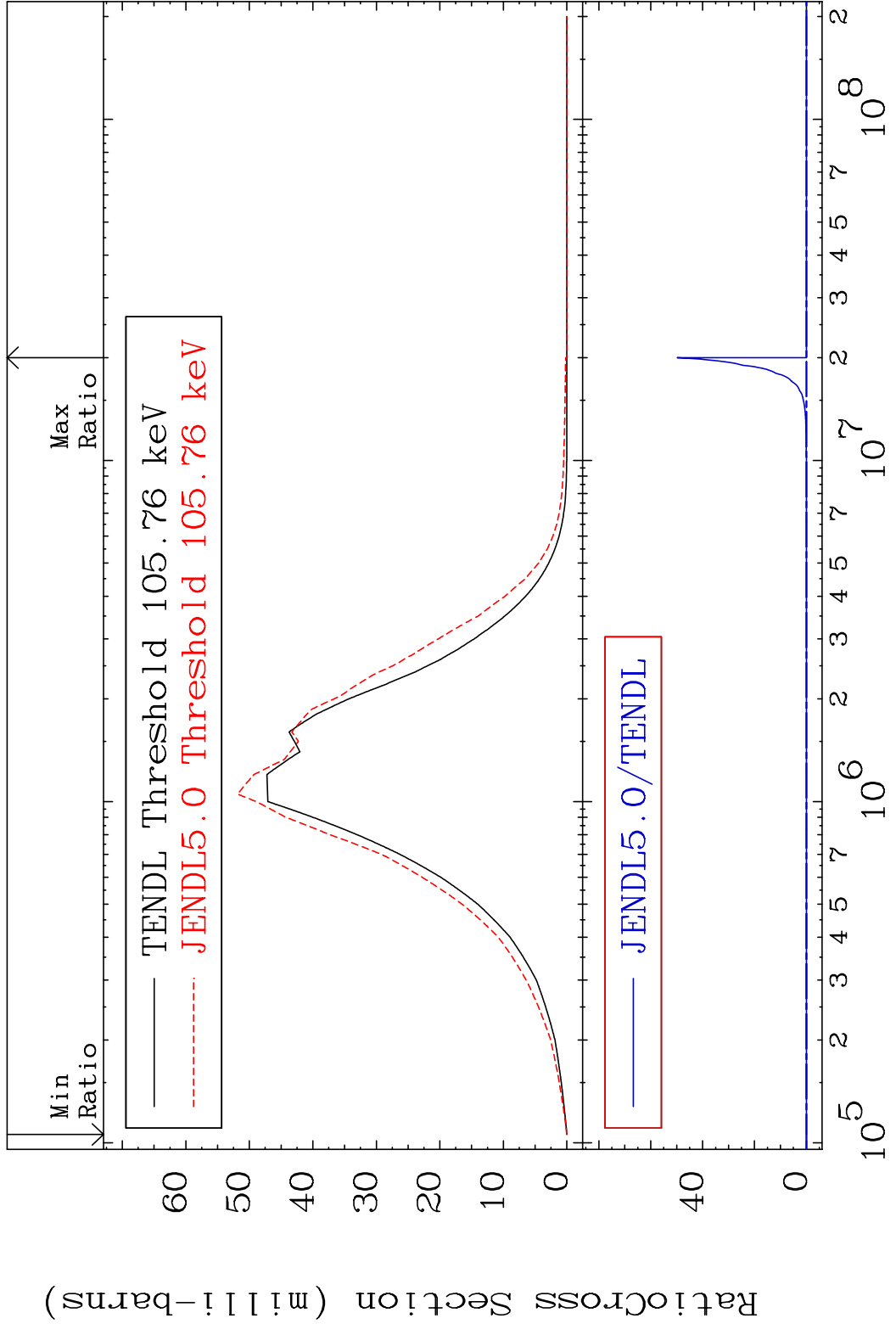
MAT 4119 (n, n') d 41-Nb-91  
 Cross Section -100.0 To 9999. %



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

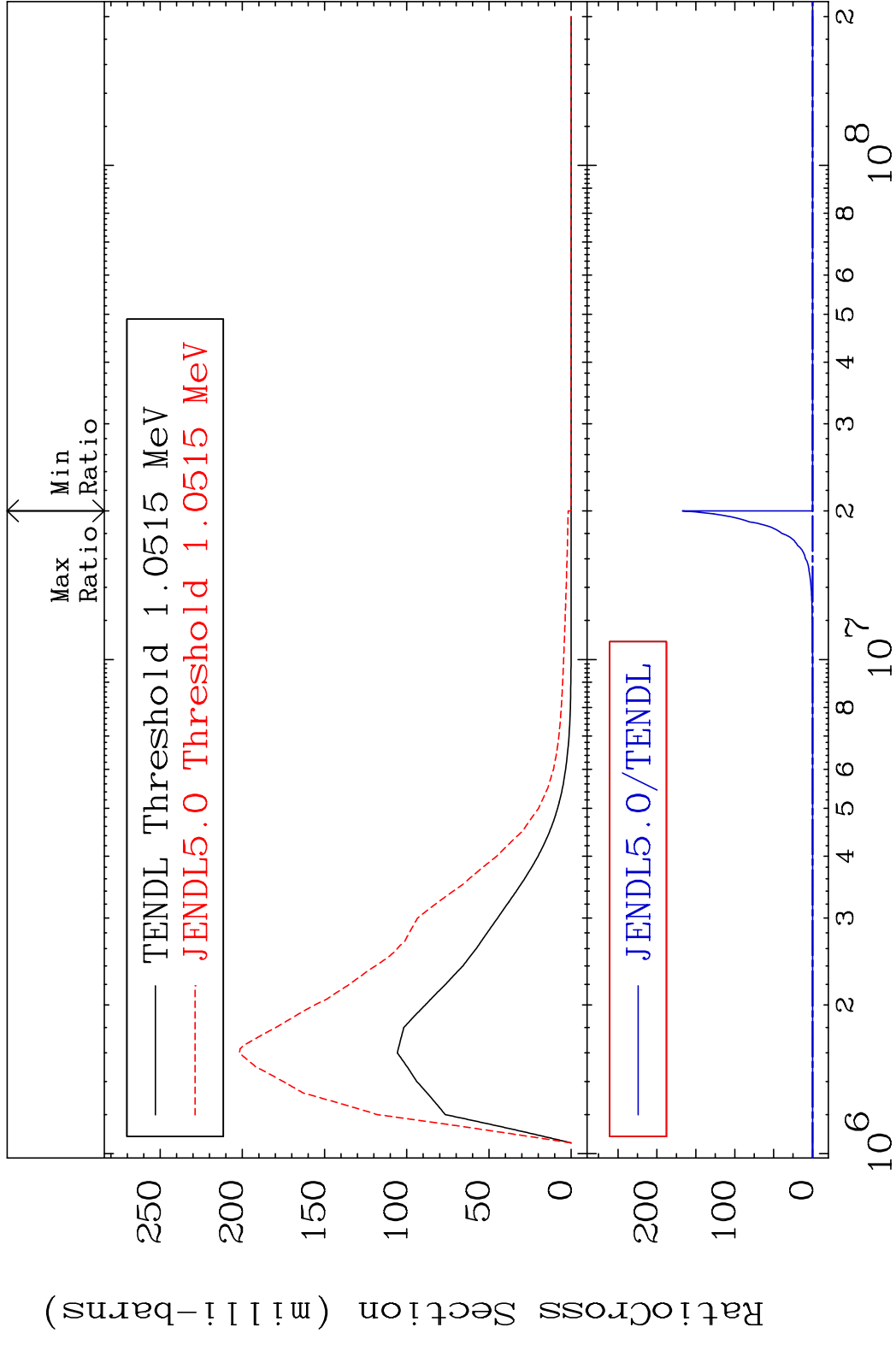


MAT 4119 MT= 51 (n,n') Level 41-Nb-91  
 Cross Section -100.0 To 9999. %



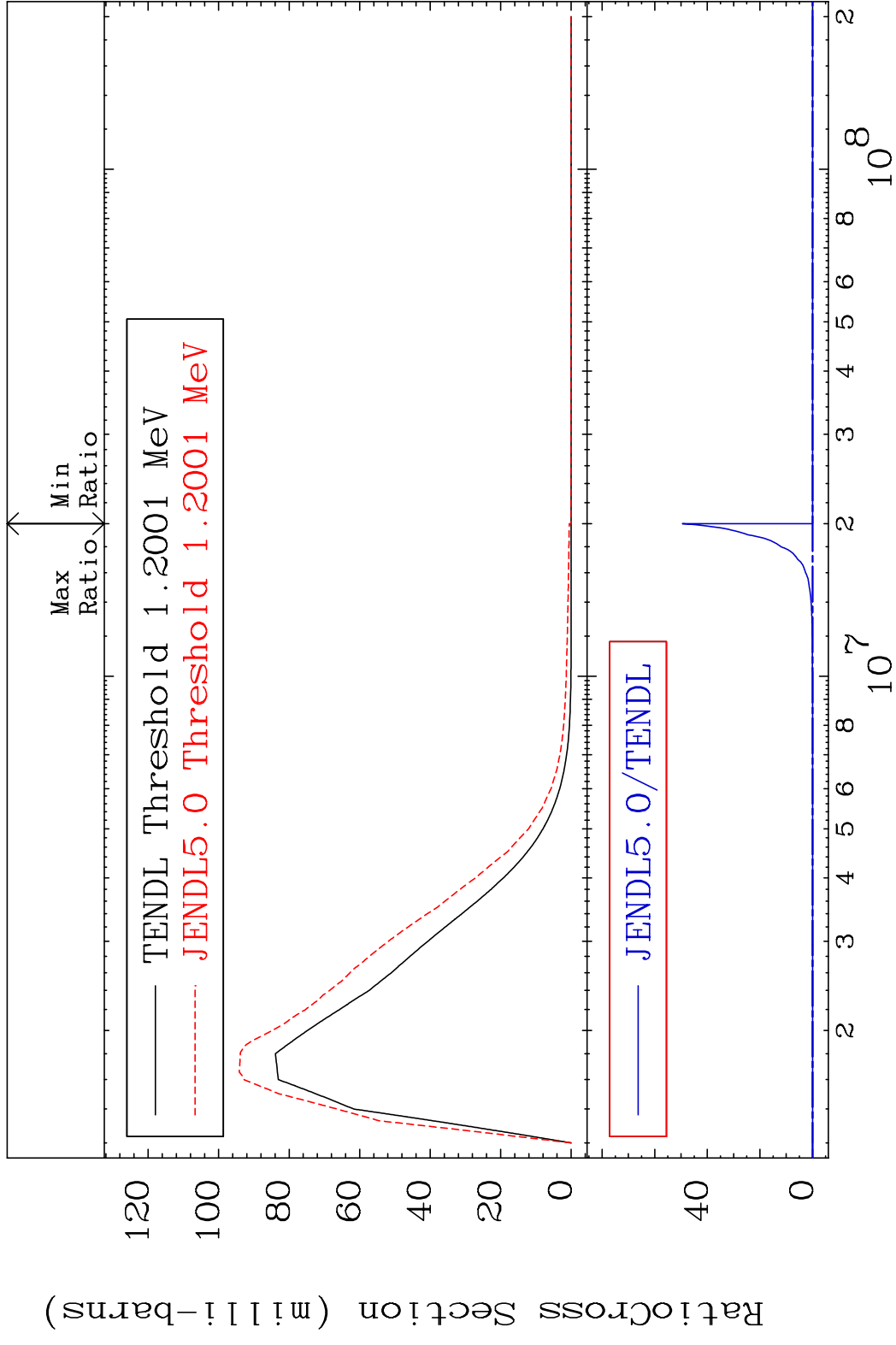
10 2 3 4 5 6 7 8 2 3 4 5 7 8 2 41-Nb-91

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

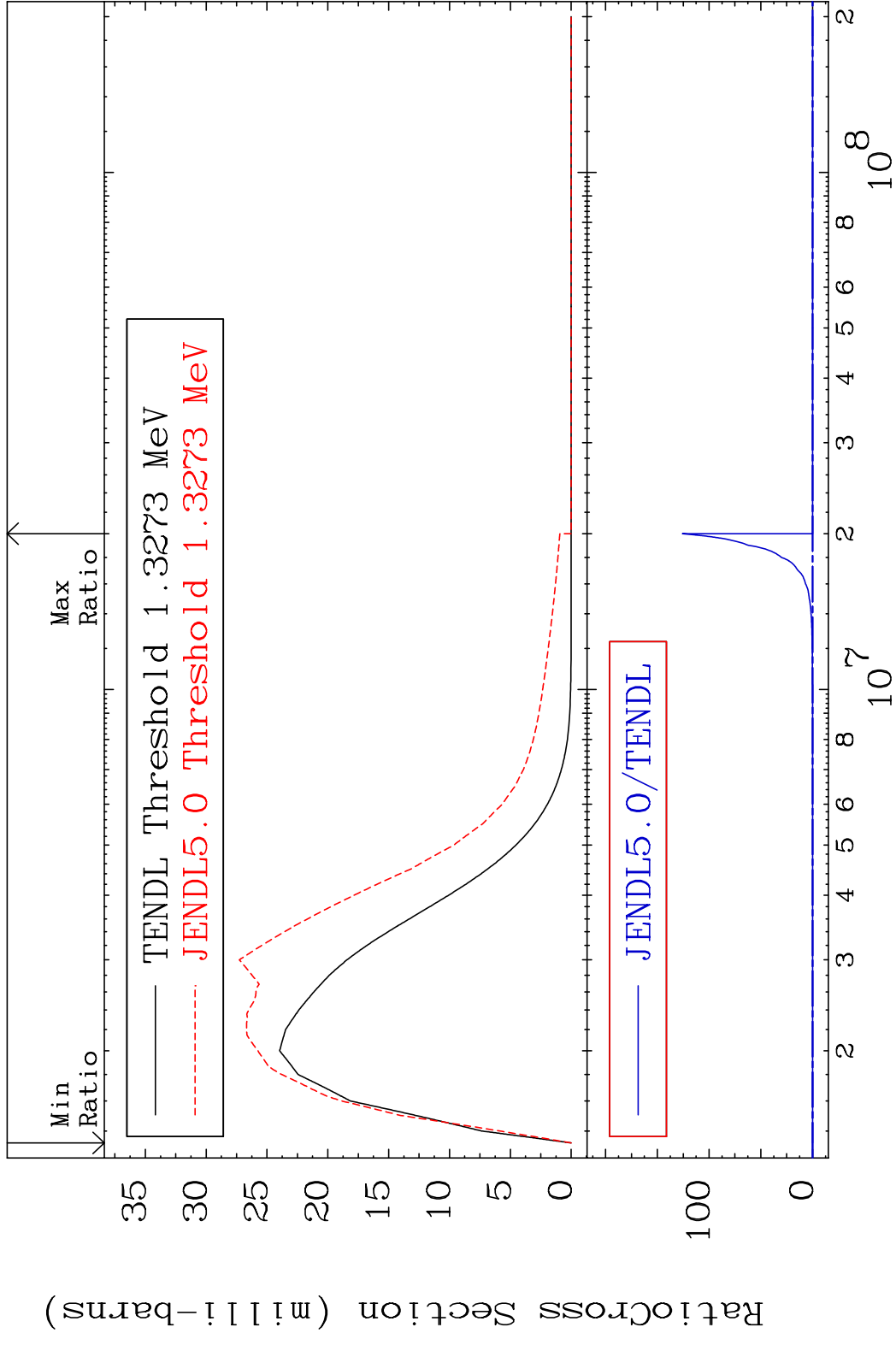


11 Incident Energy (eV) 41-Nb-91

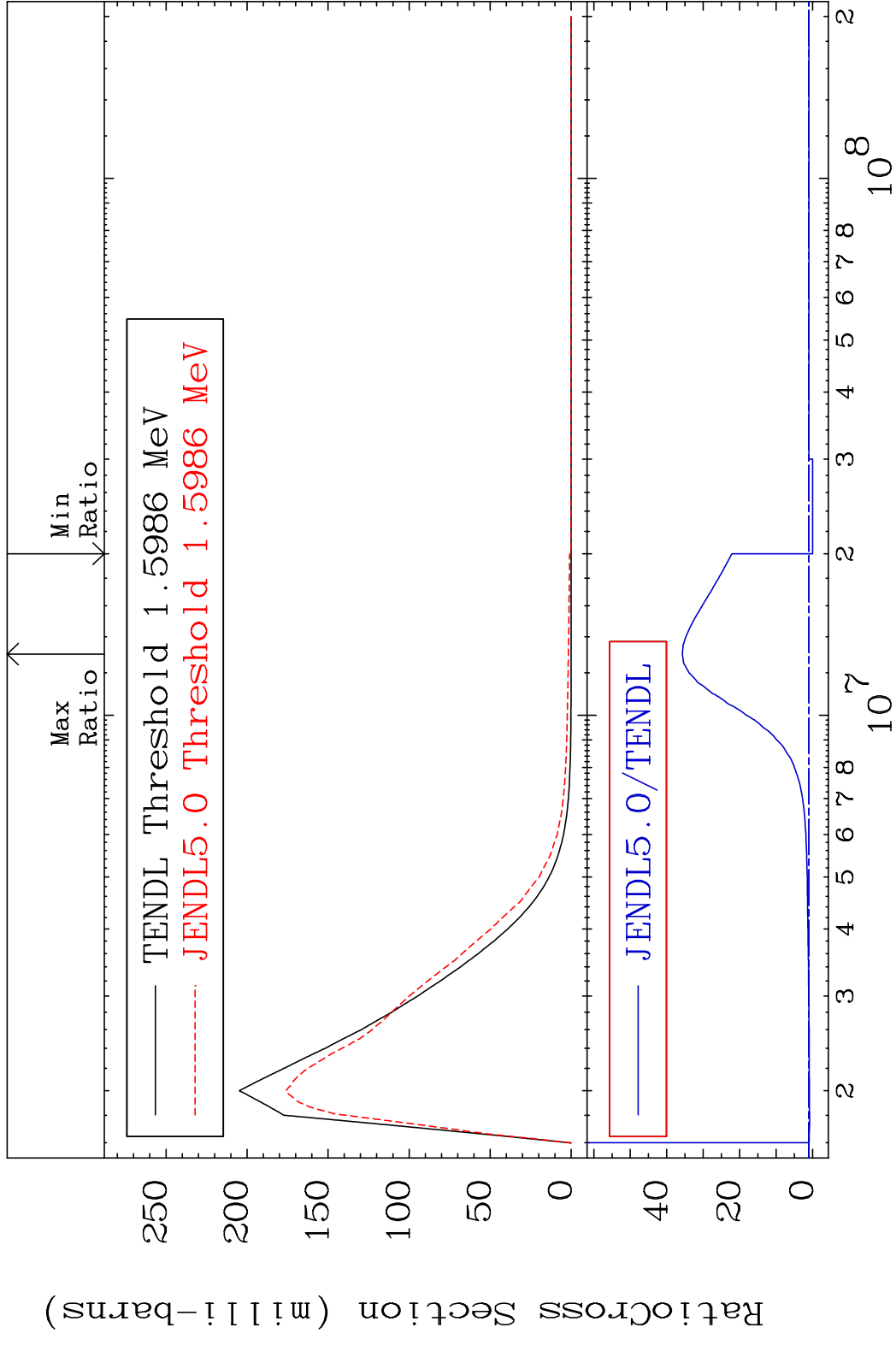
MAT 4119 MT= 53 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 9999. %



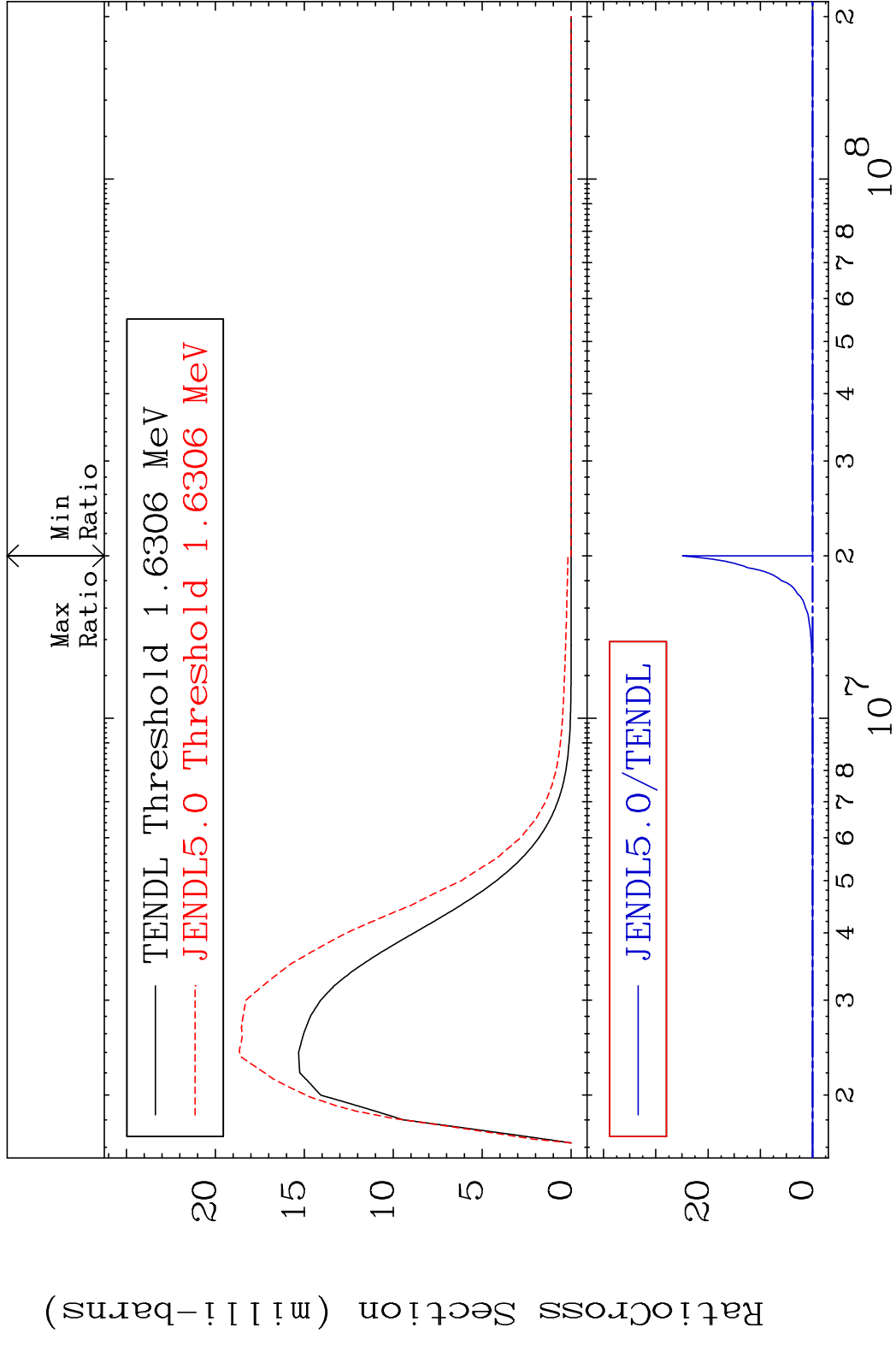
MAT 4119 MT= 54 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 9999. %



MAT 4119 MT= 55 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 3471. %

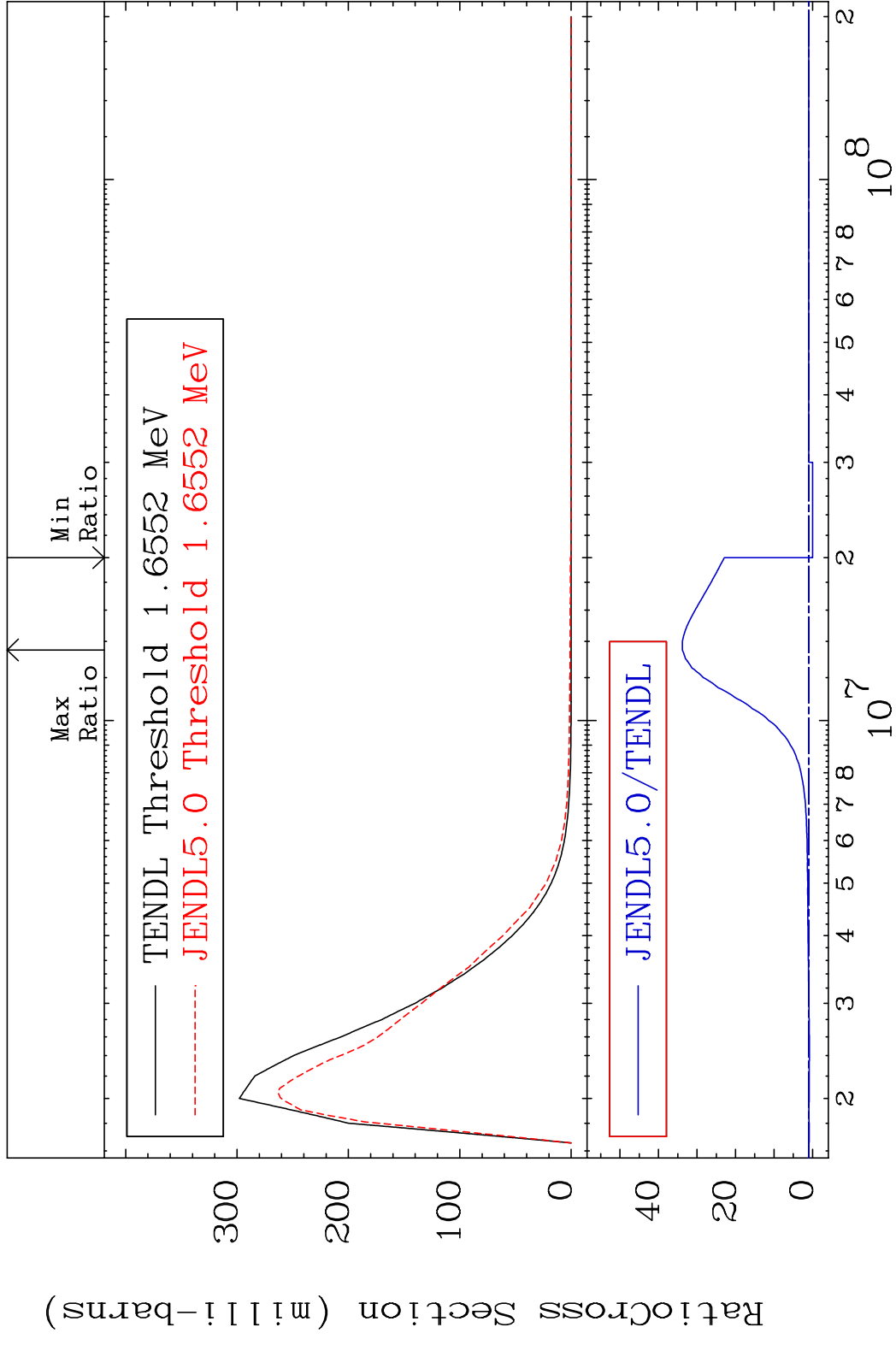


MAT 4119 MT= 56 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 9999. %

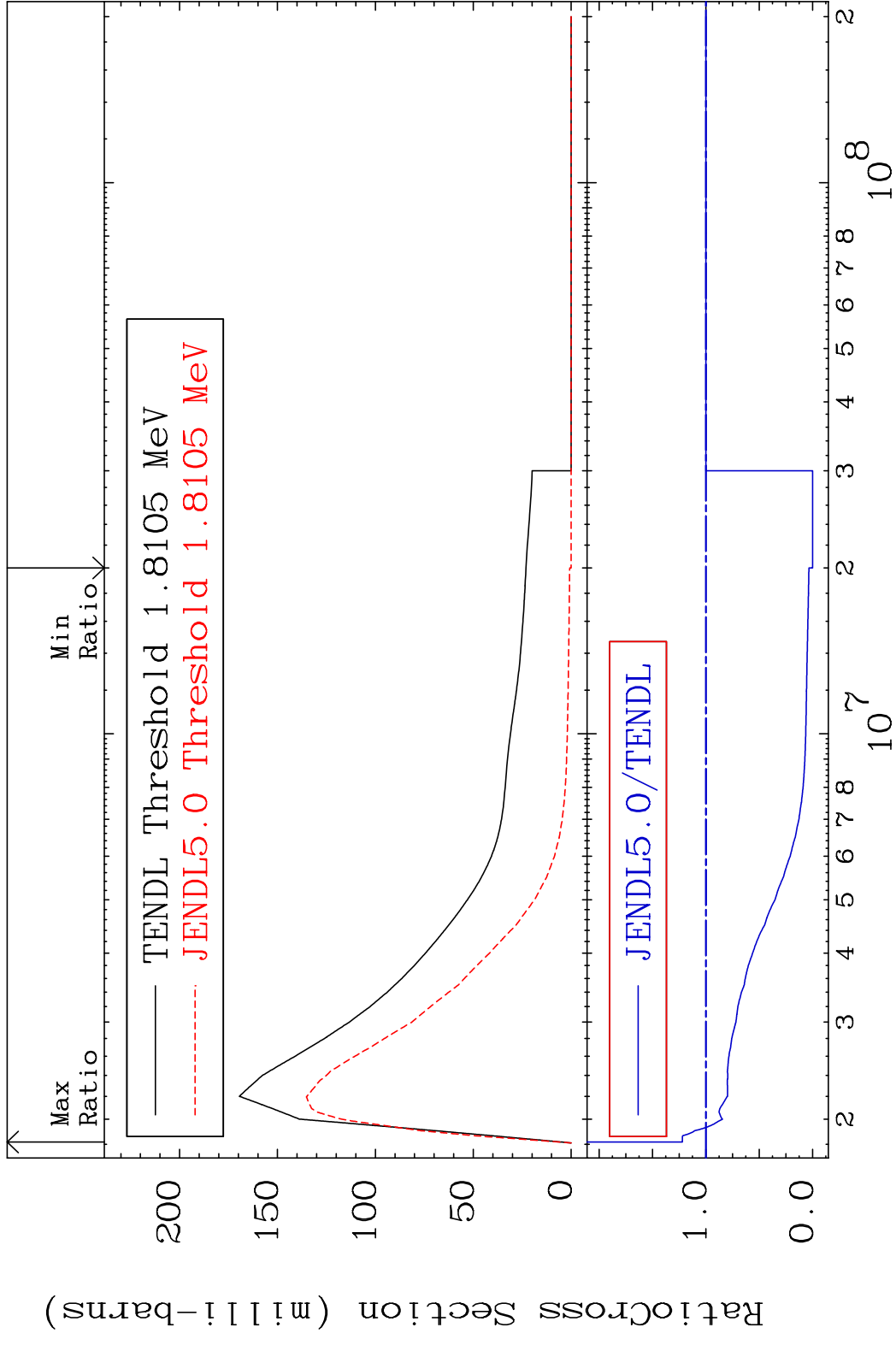


15 Incident Energy (eV) 41-Nb-91

MAT 4119 MT= 57 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 3281. %

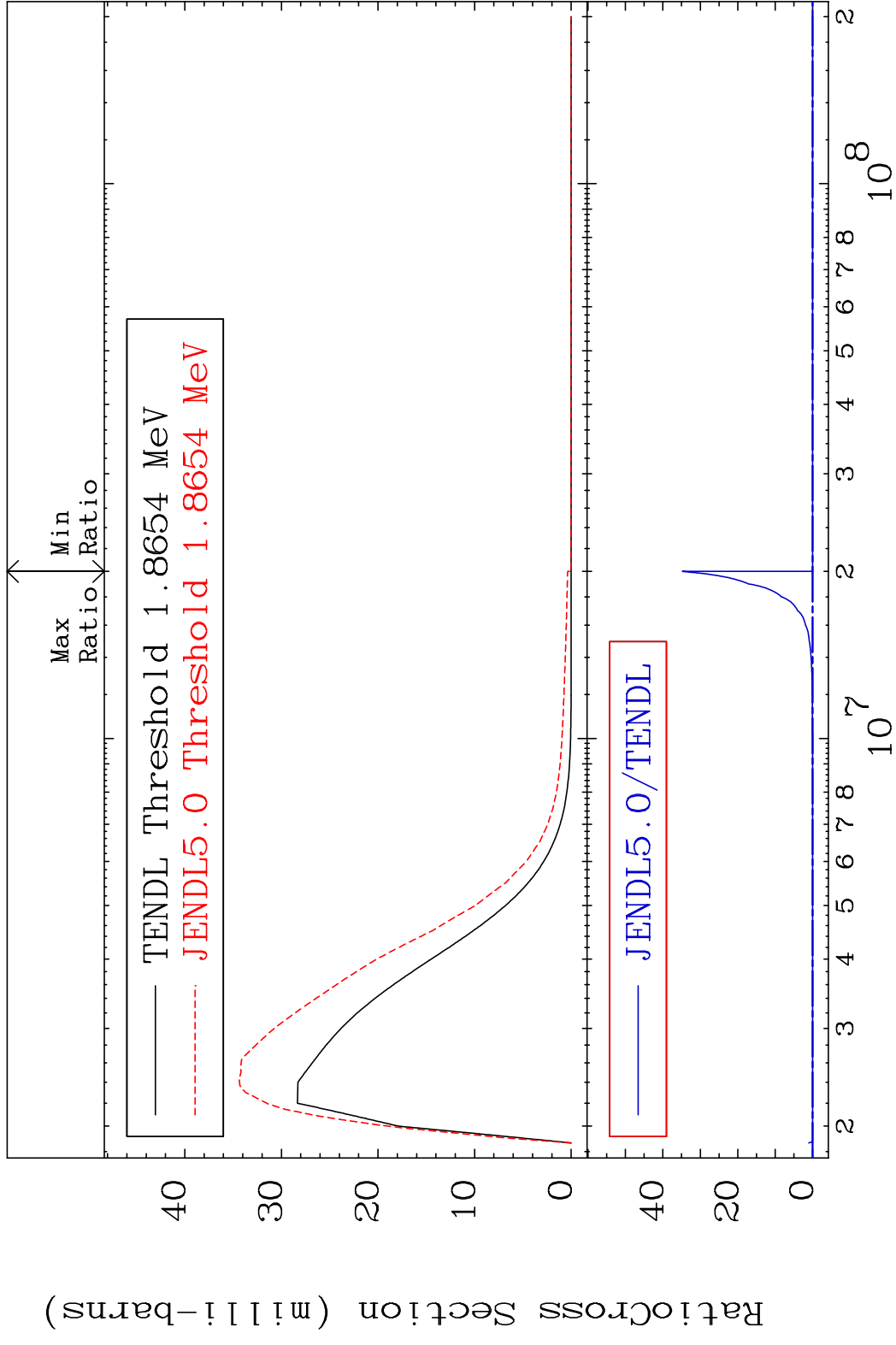


MAT 4119 MT= 58 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 21.97 %



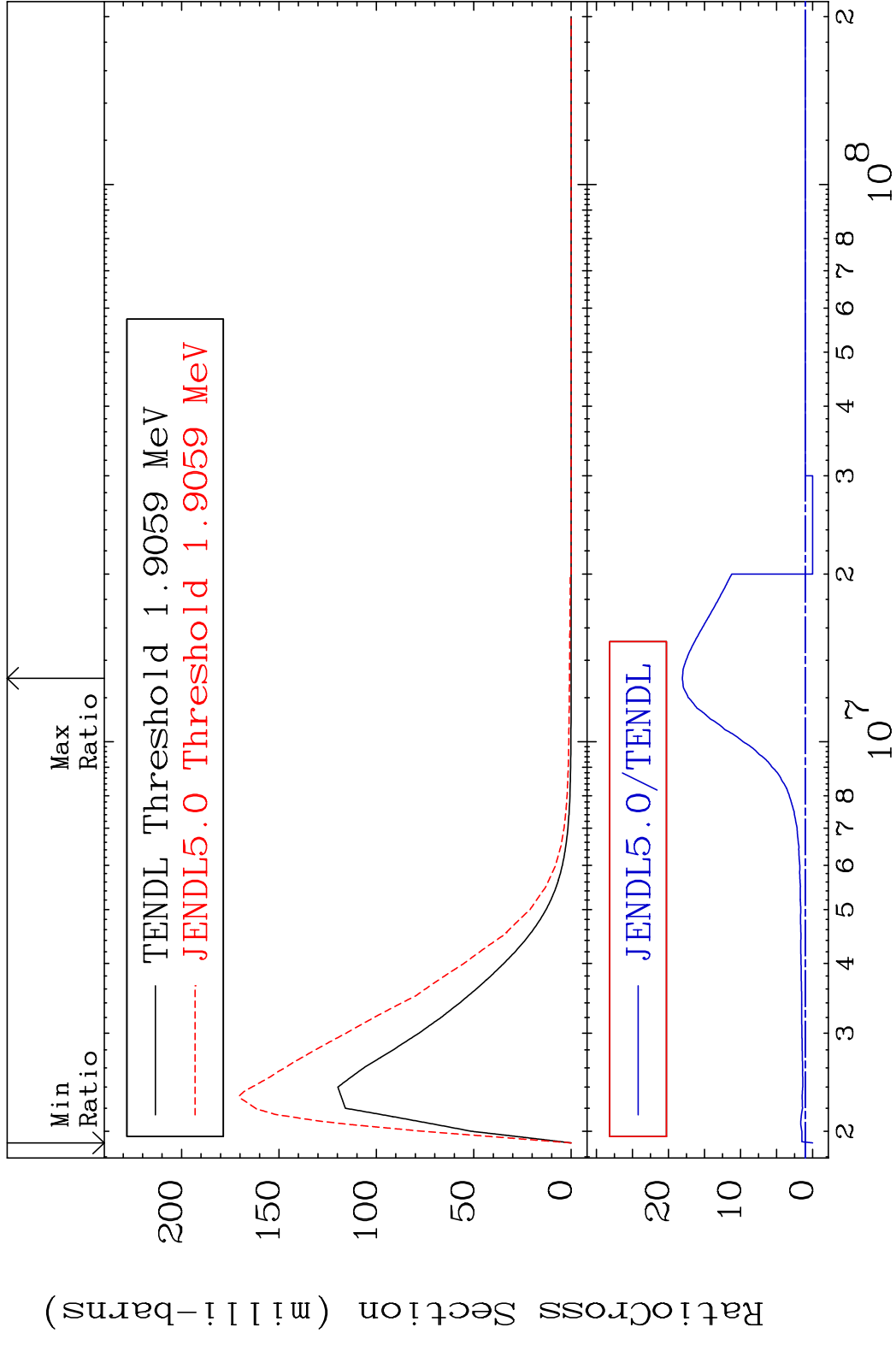
17 Incident Energy (eV) 41-Nb-91

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



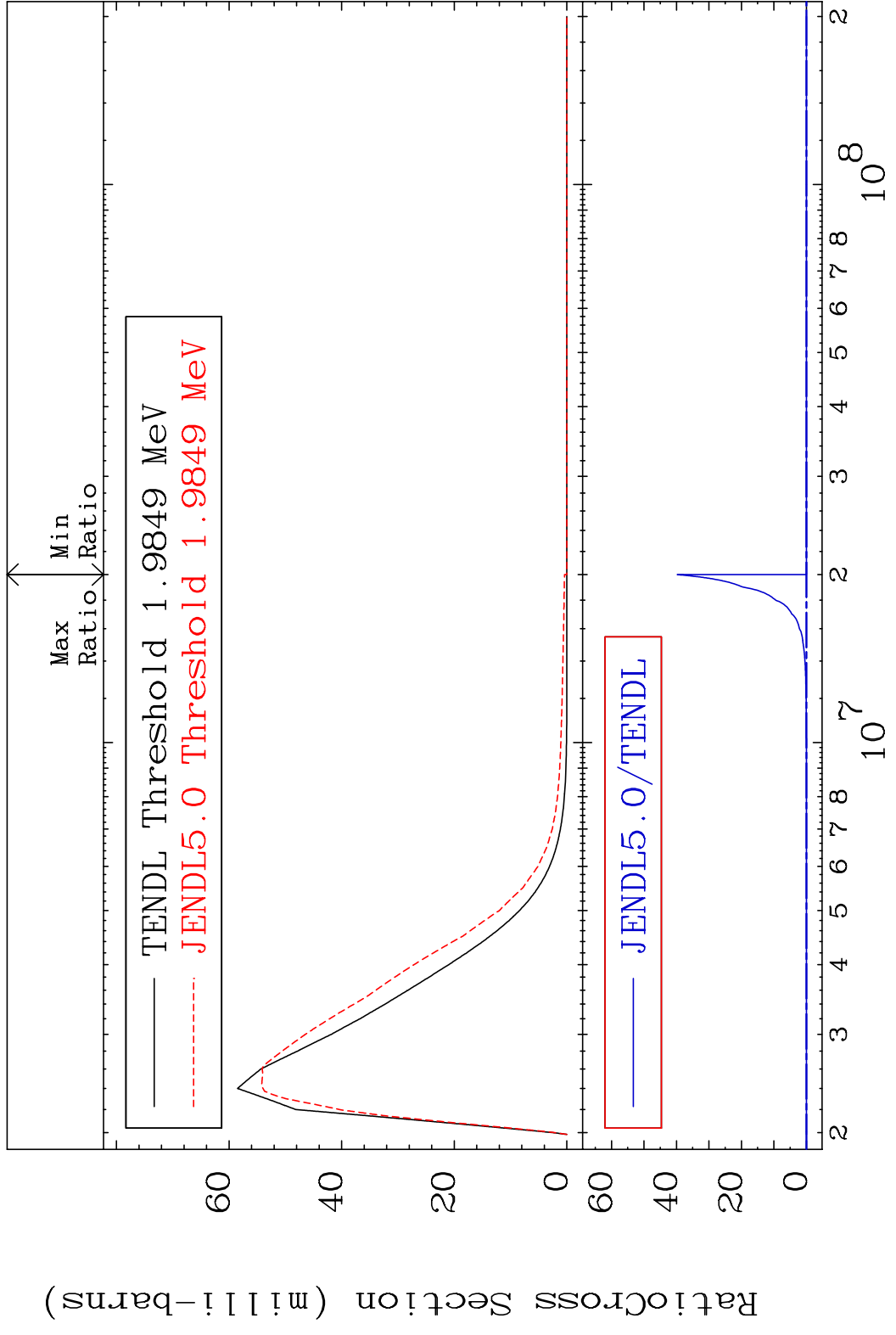
18 Incident Energy (eV) 41-Nb-91

MAT 4119 MT= 60 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 1707. %



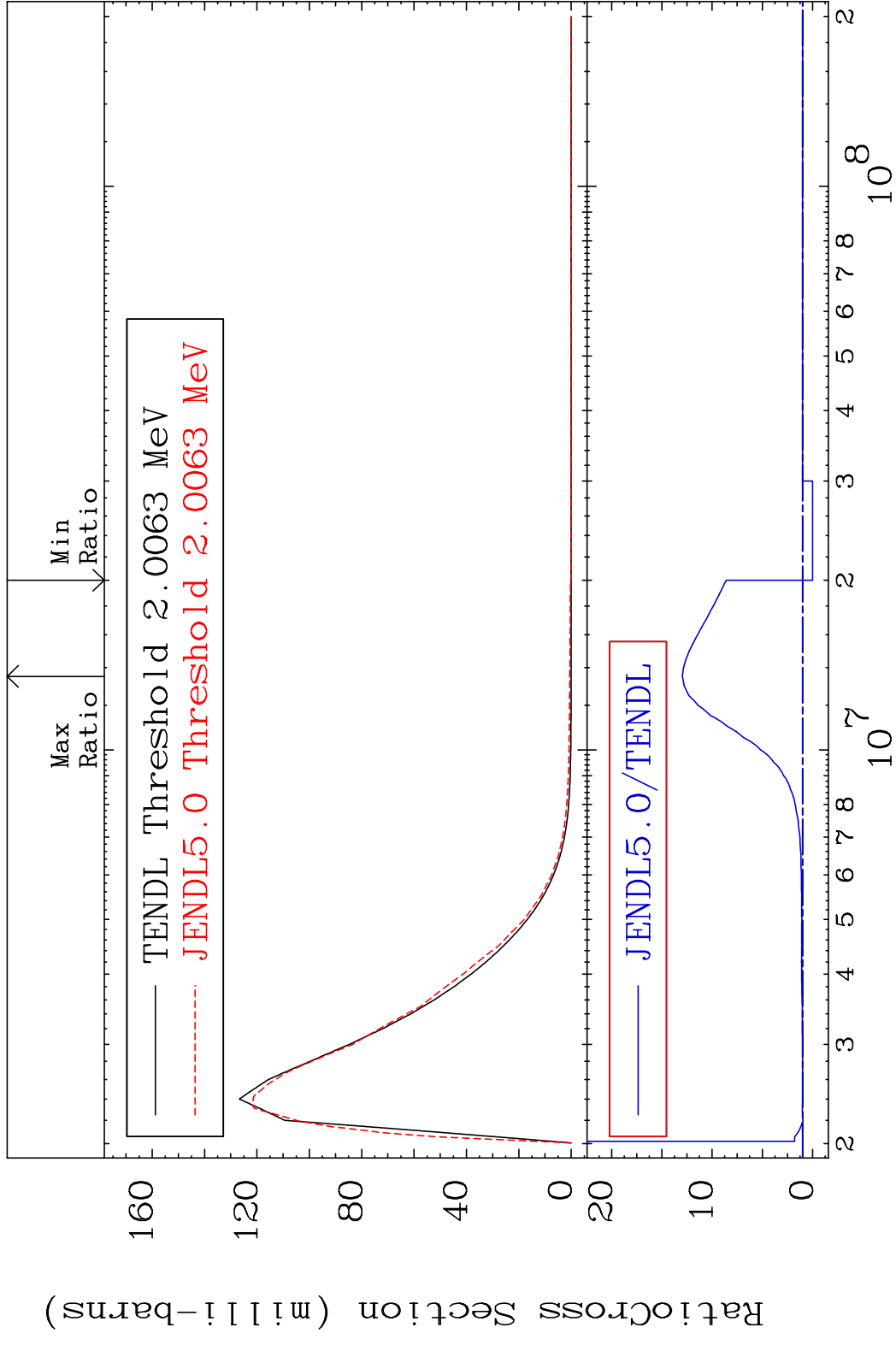
19 Incident Energy (eV) 41-Nb-91

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



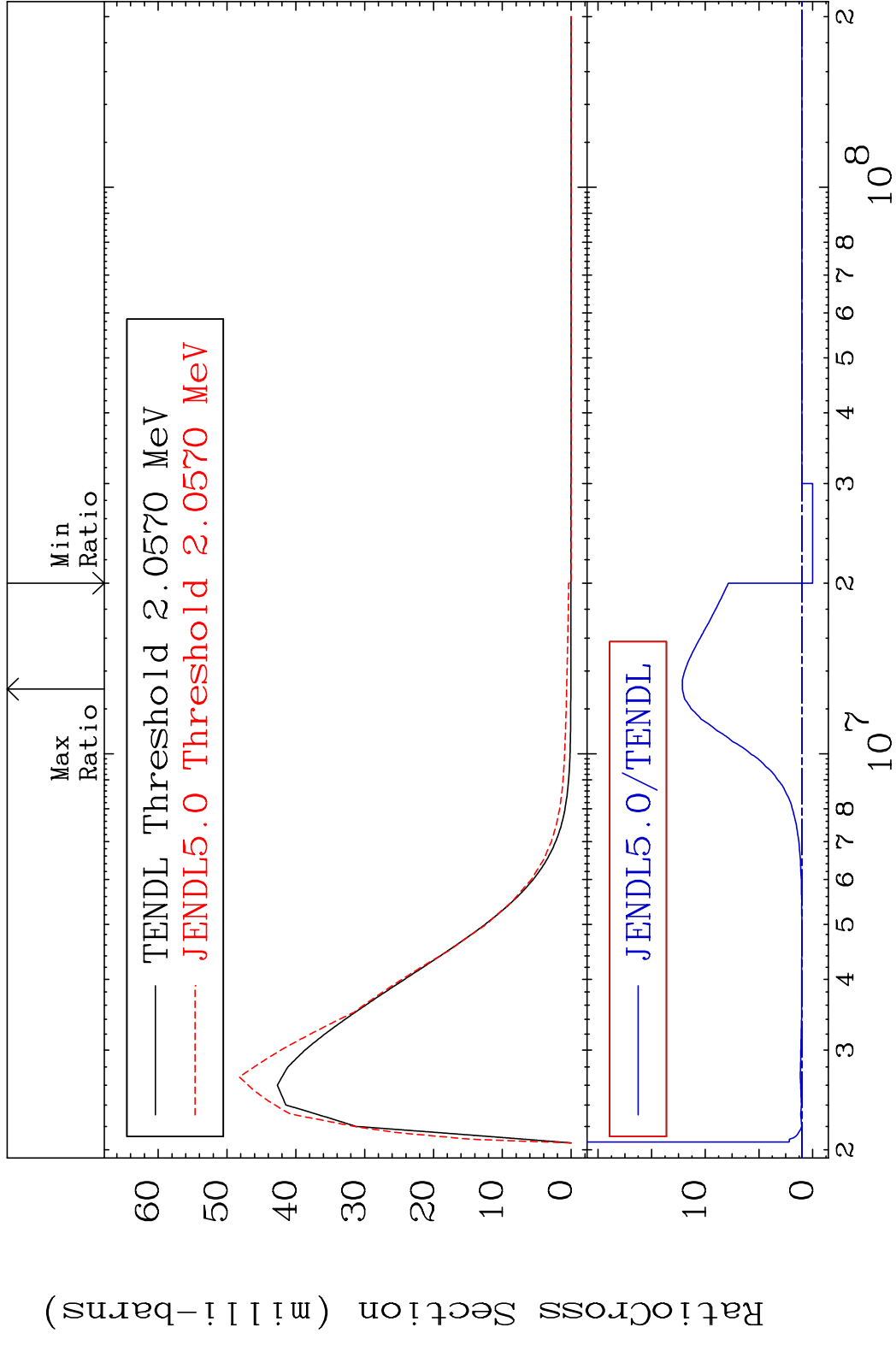
20 41-Nb-91

MAT 4119 MT= 62 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 1196. %

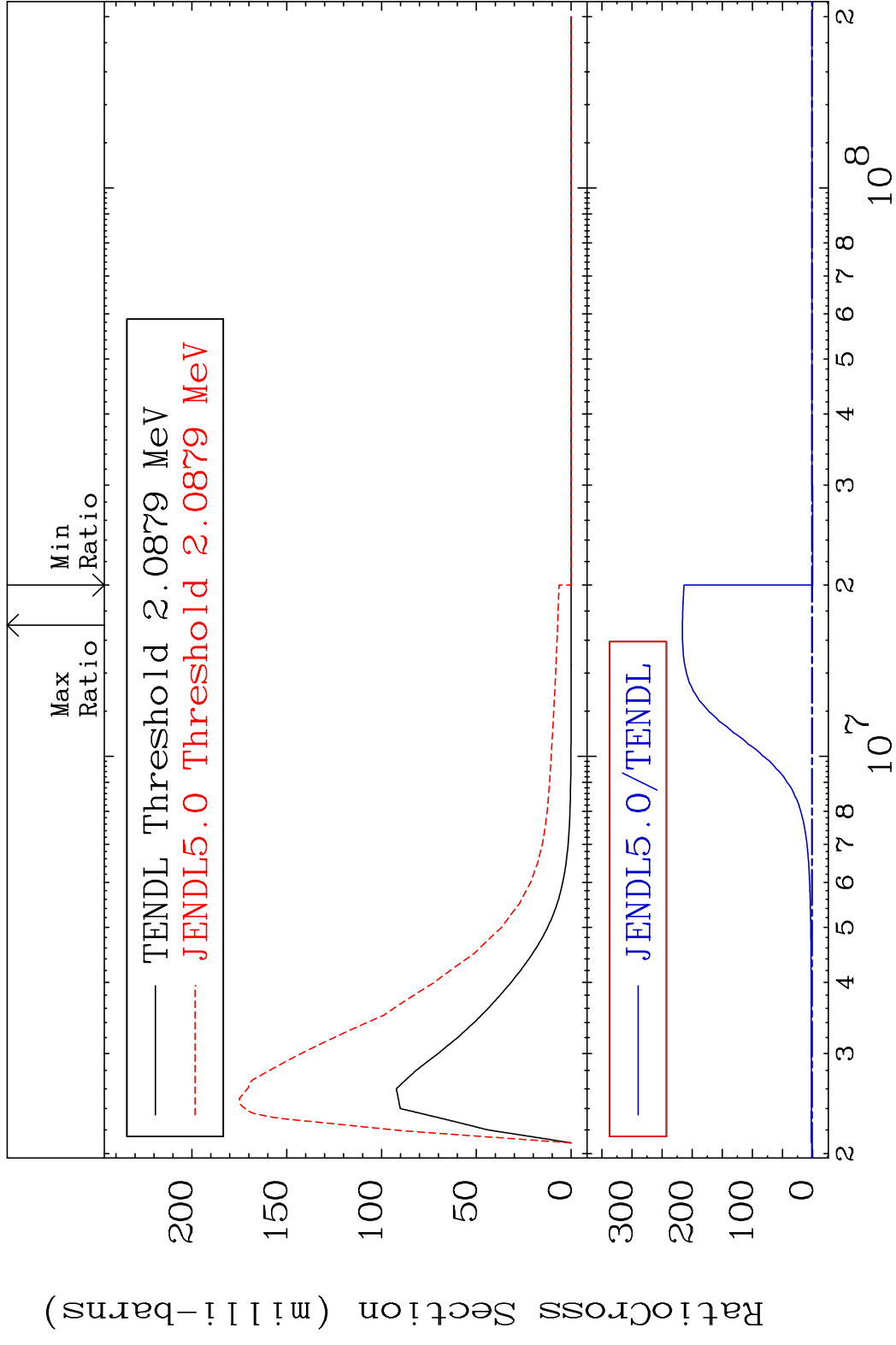


21 Incident Energy (eV) 41-Nb-91

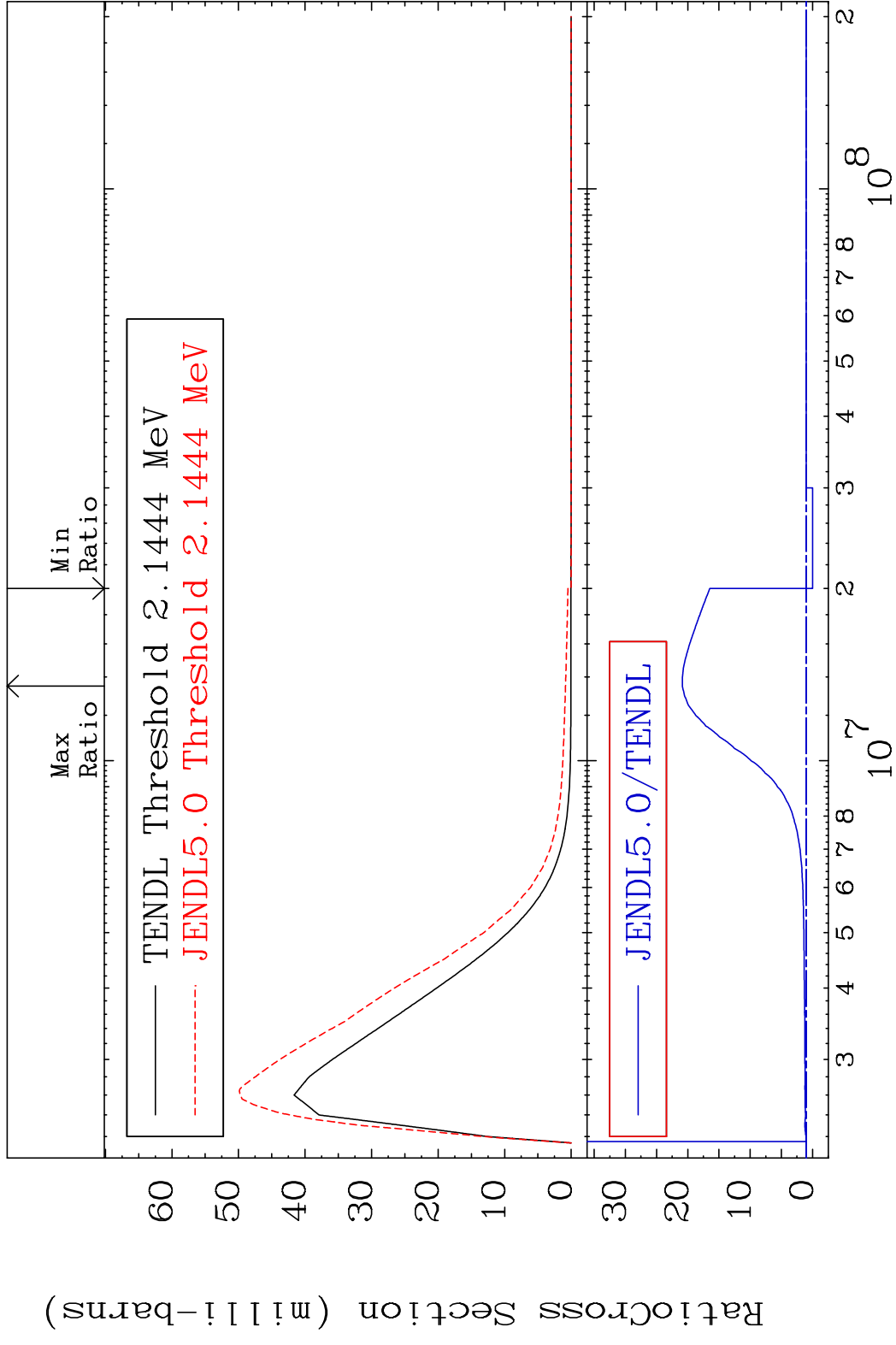
MAT 4119 MT= 63 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 1114. %



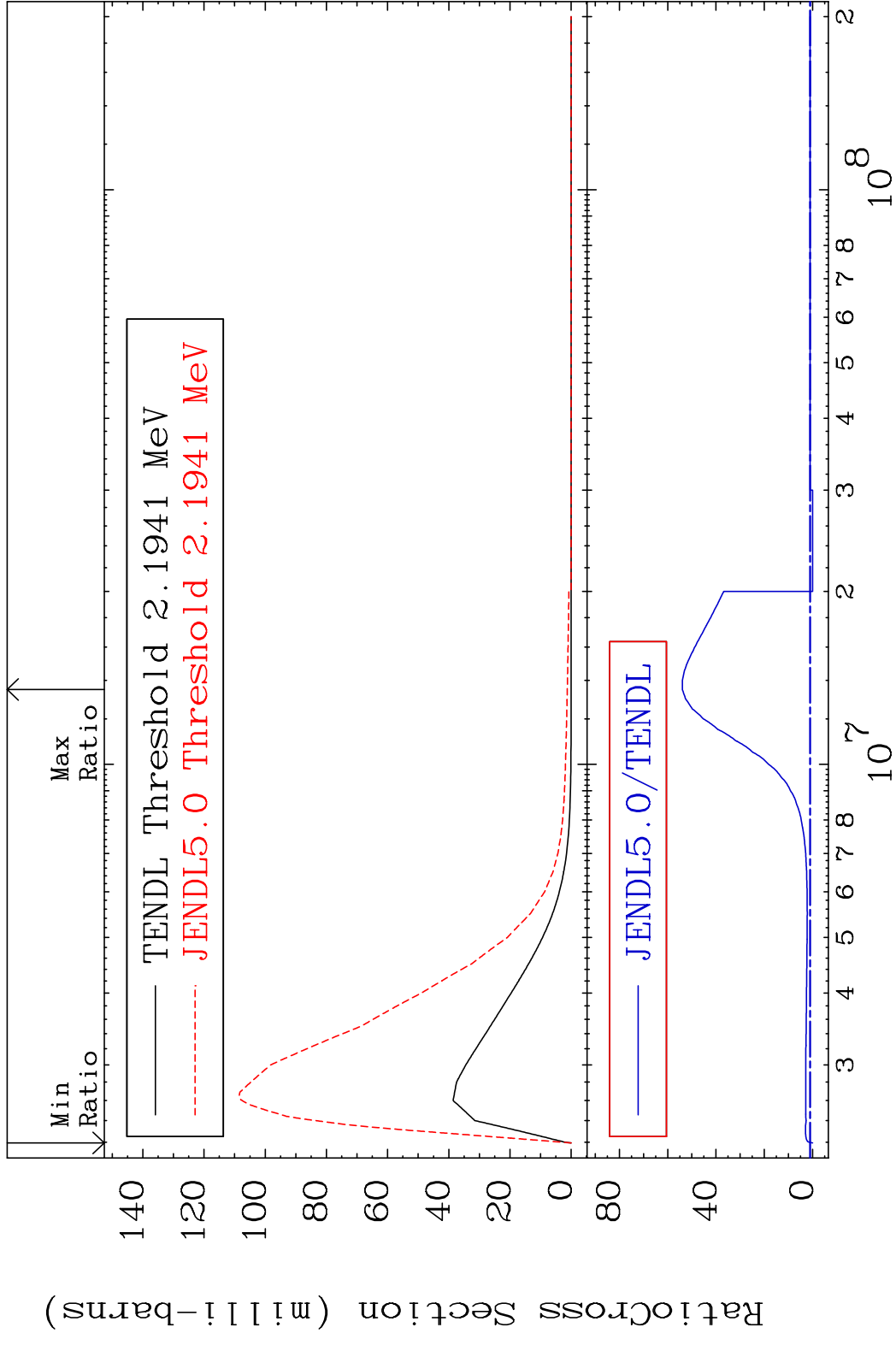
MAT 4119 MT= 64 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 9999. %



MAT 4119 MT= 65 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 1987. %



MAT 4119 MT= 66 (n, n') Level 41-Nb-91  
 Cross Section -100.0 To 5293. %

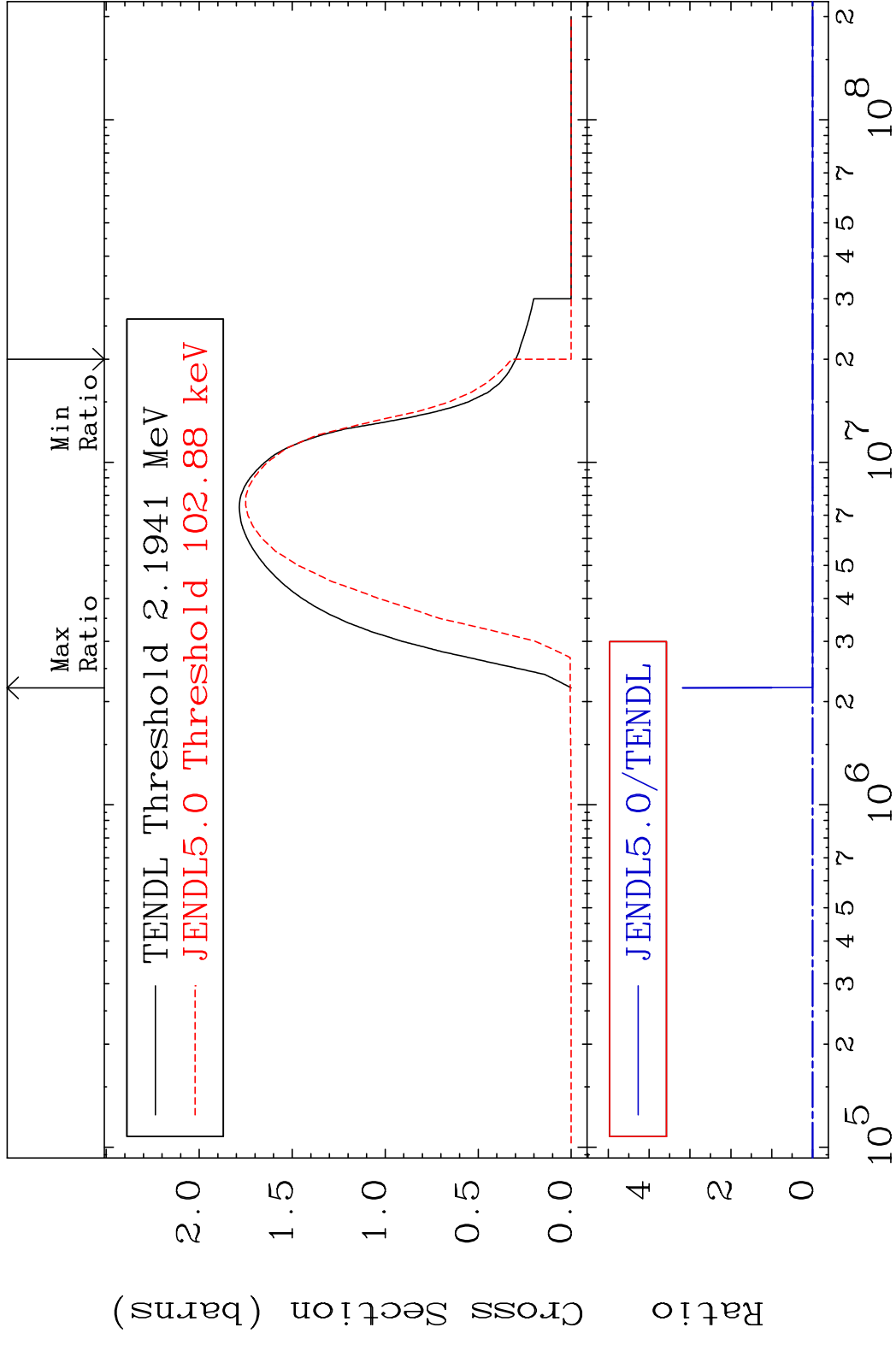


MAT 4119

(n, n') Continuum

41-Nb-91

Cross Section -100.0 To 9999. %



26

Incident Energy (eV)

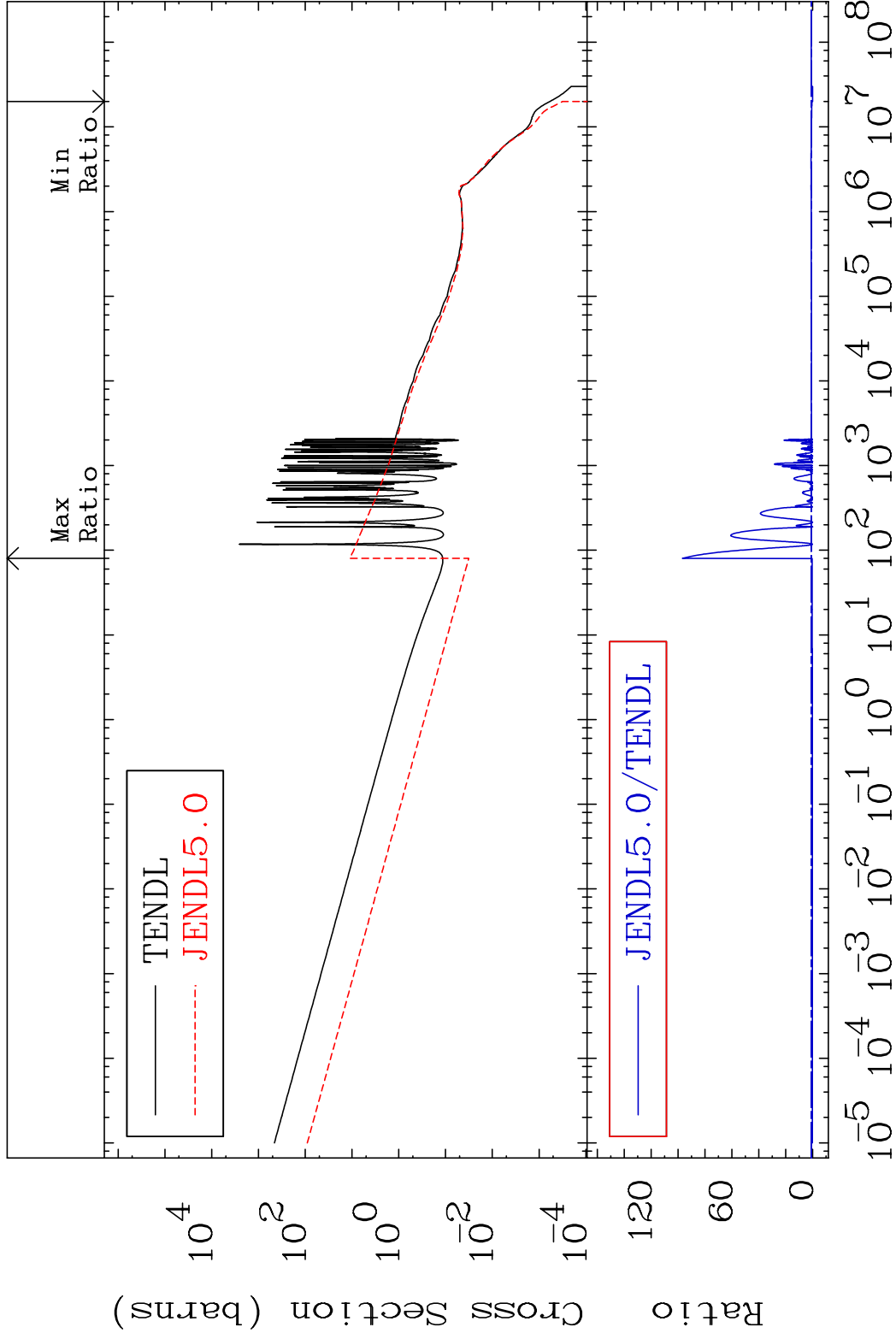
41-Nb-91

MAT 4119

(n,  $\gamma$ )

41-Nb-91

Cross Section -100.0 To 9583. %



27

Incident Energy (eV)

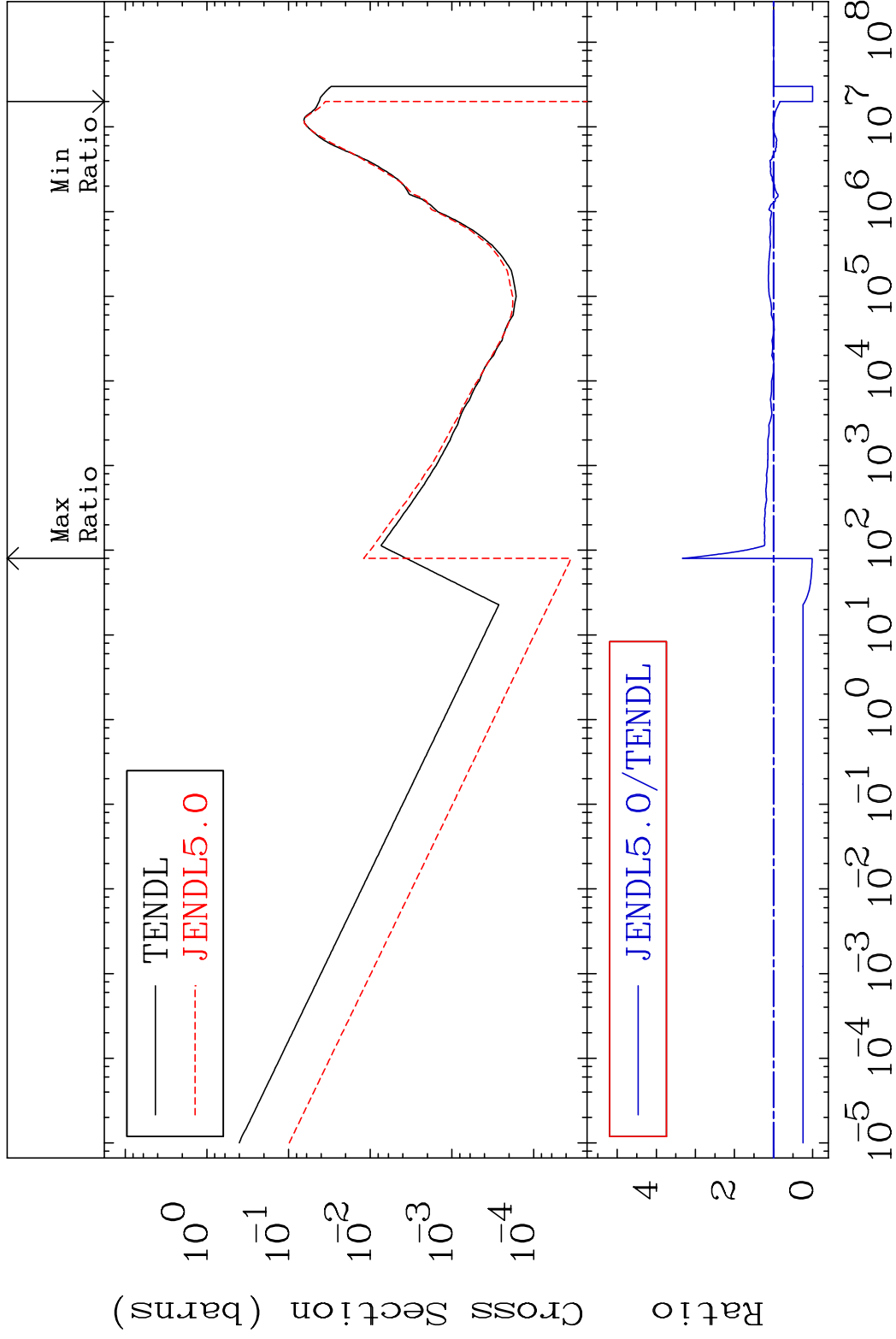
41-Nb-91

MAT 4119

(n, p)

41-Nb-91

Cross Section -100.0 To 233.4 %

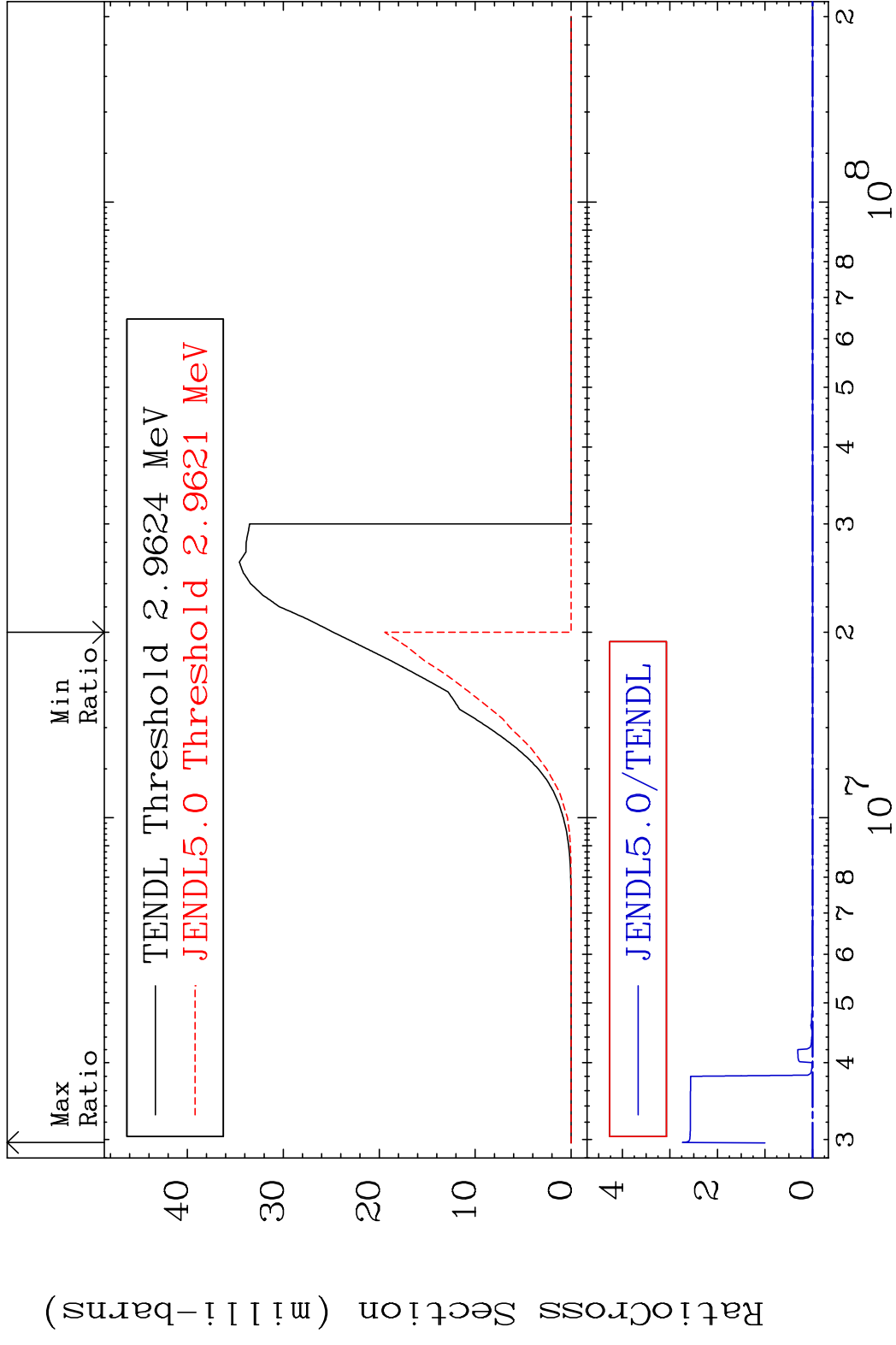


28

Incident Energy (eV)

41-Nb-91

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

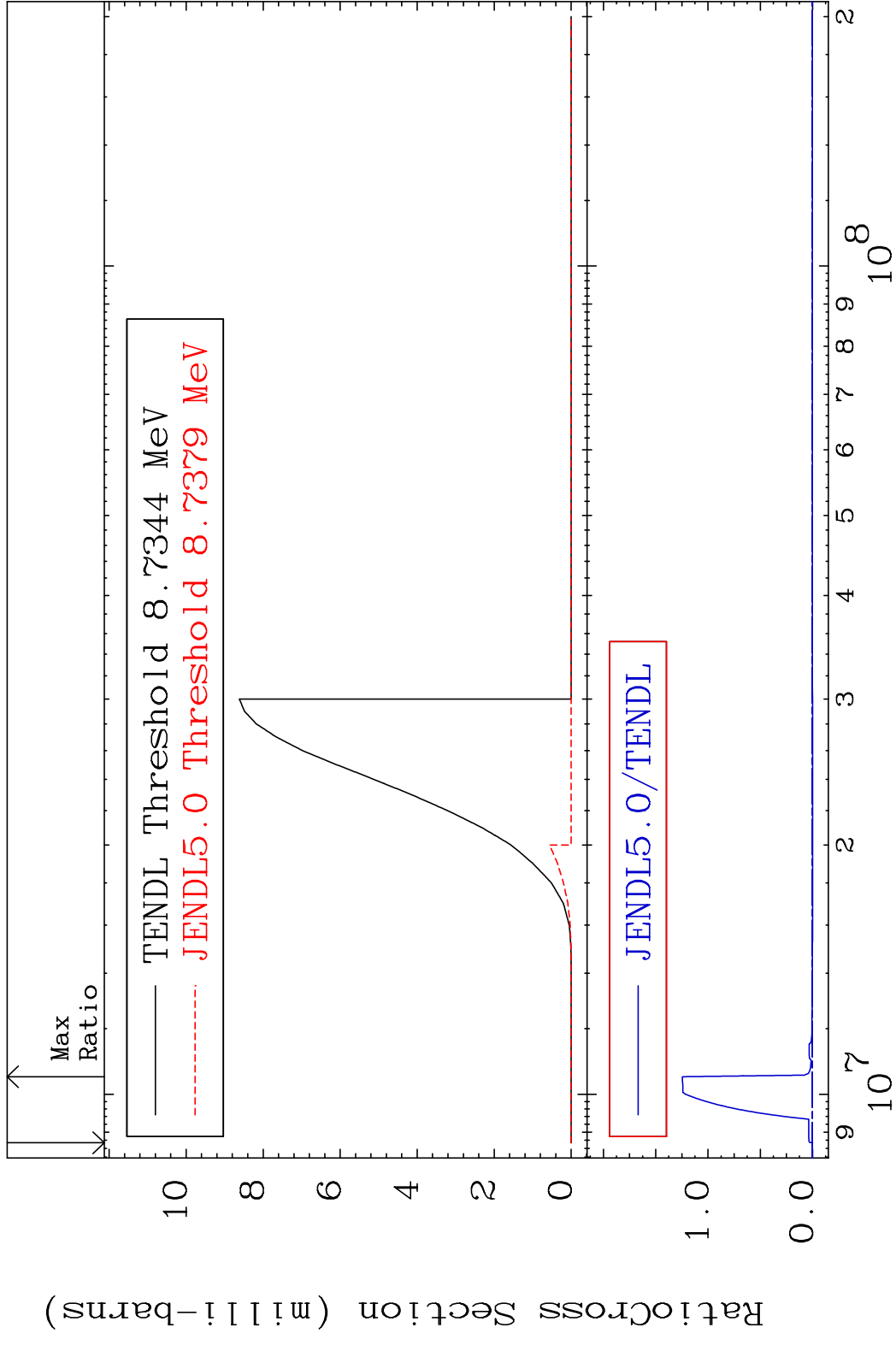


MAT 4119

(n, t)

41-Nb-91

Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

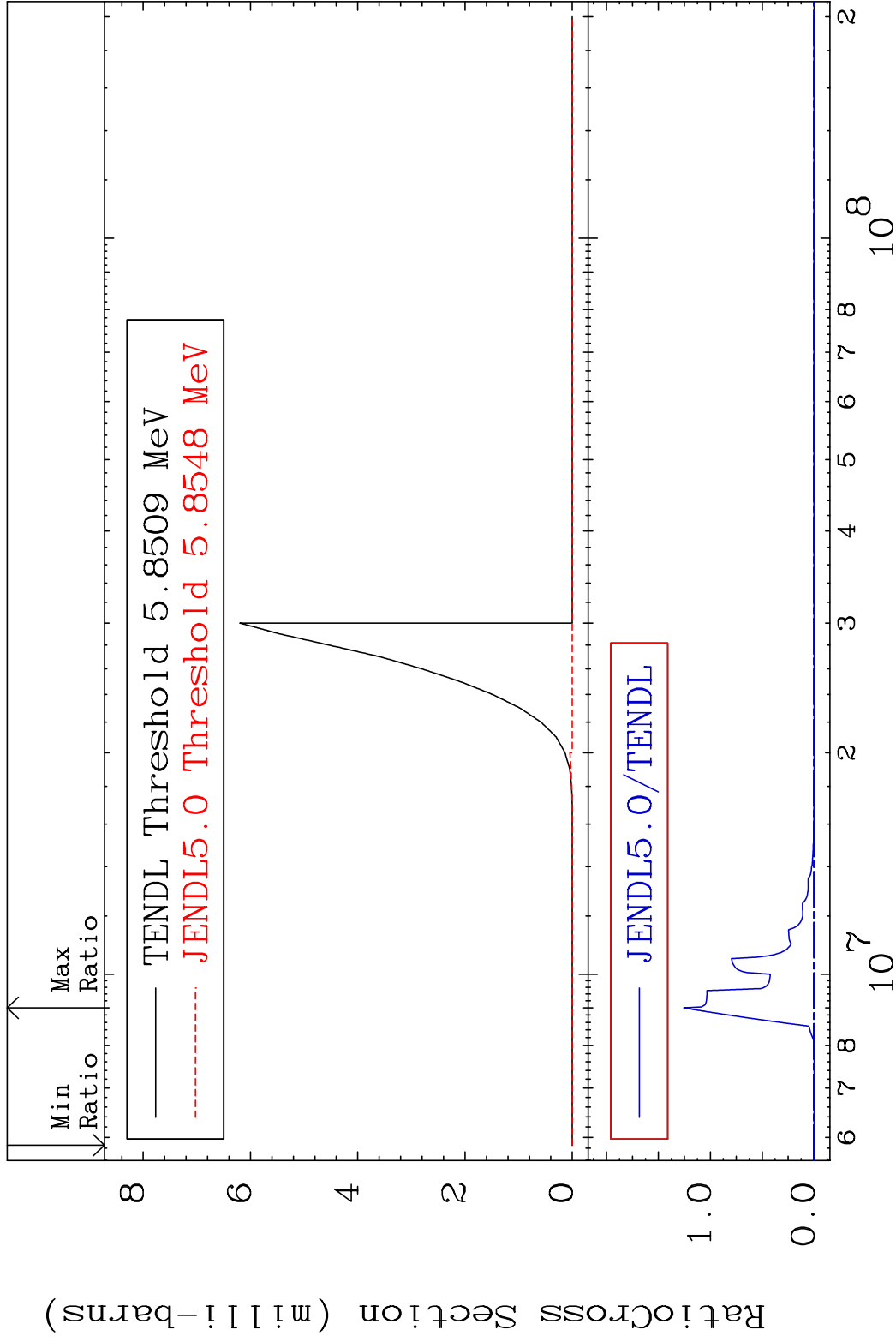
41-Nb-91

MAT 4119

(n, He-3)

41-Nb-91

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

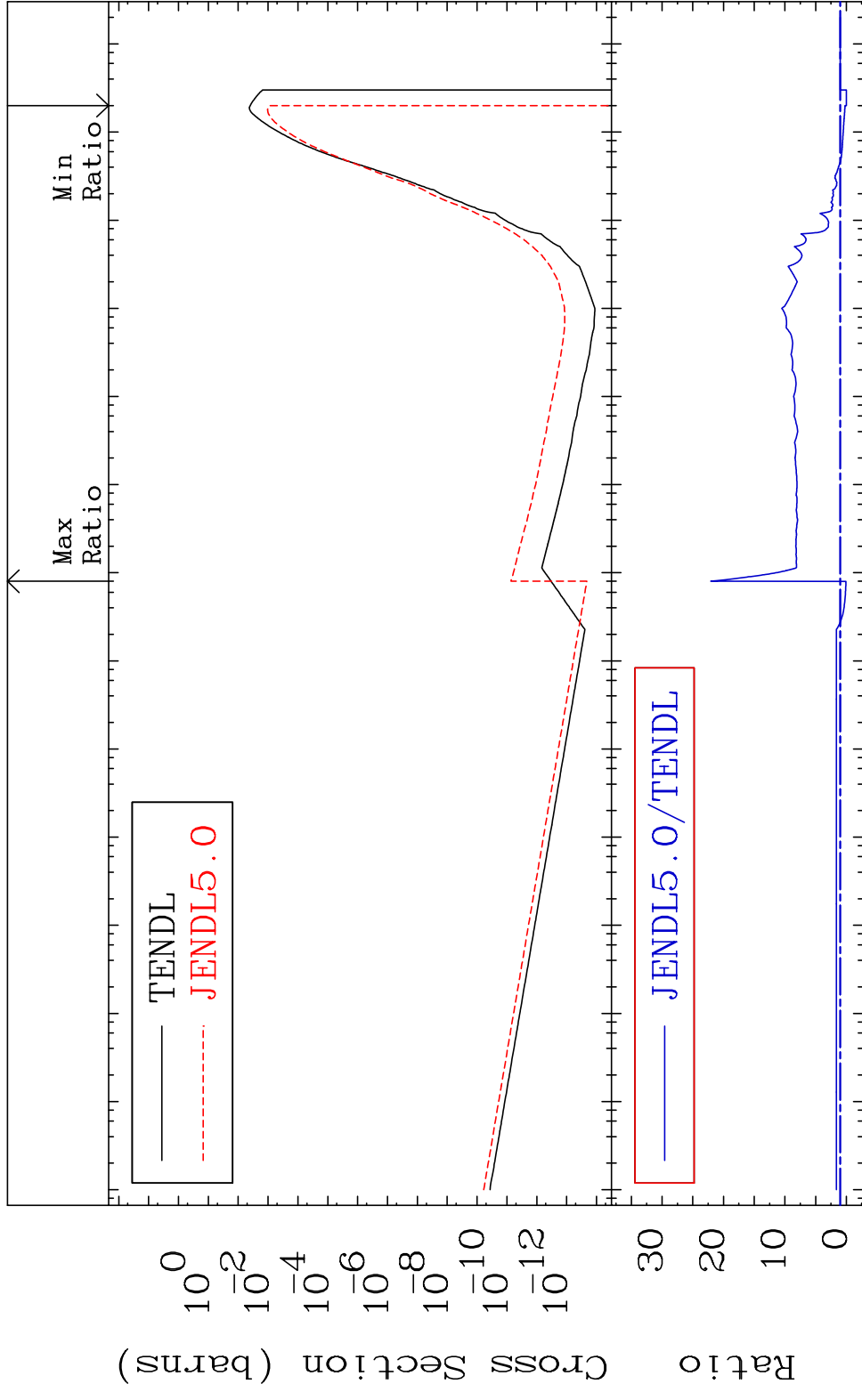
41-Nb-91

MAT 4119

41-Nb-91

(n,  $\alpha$ )

Cross Section -100.0 To 2108. %



32

Incident Energy (eV)

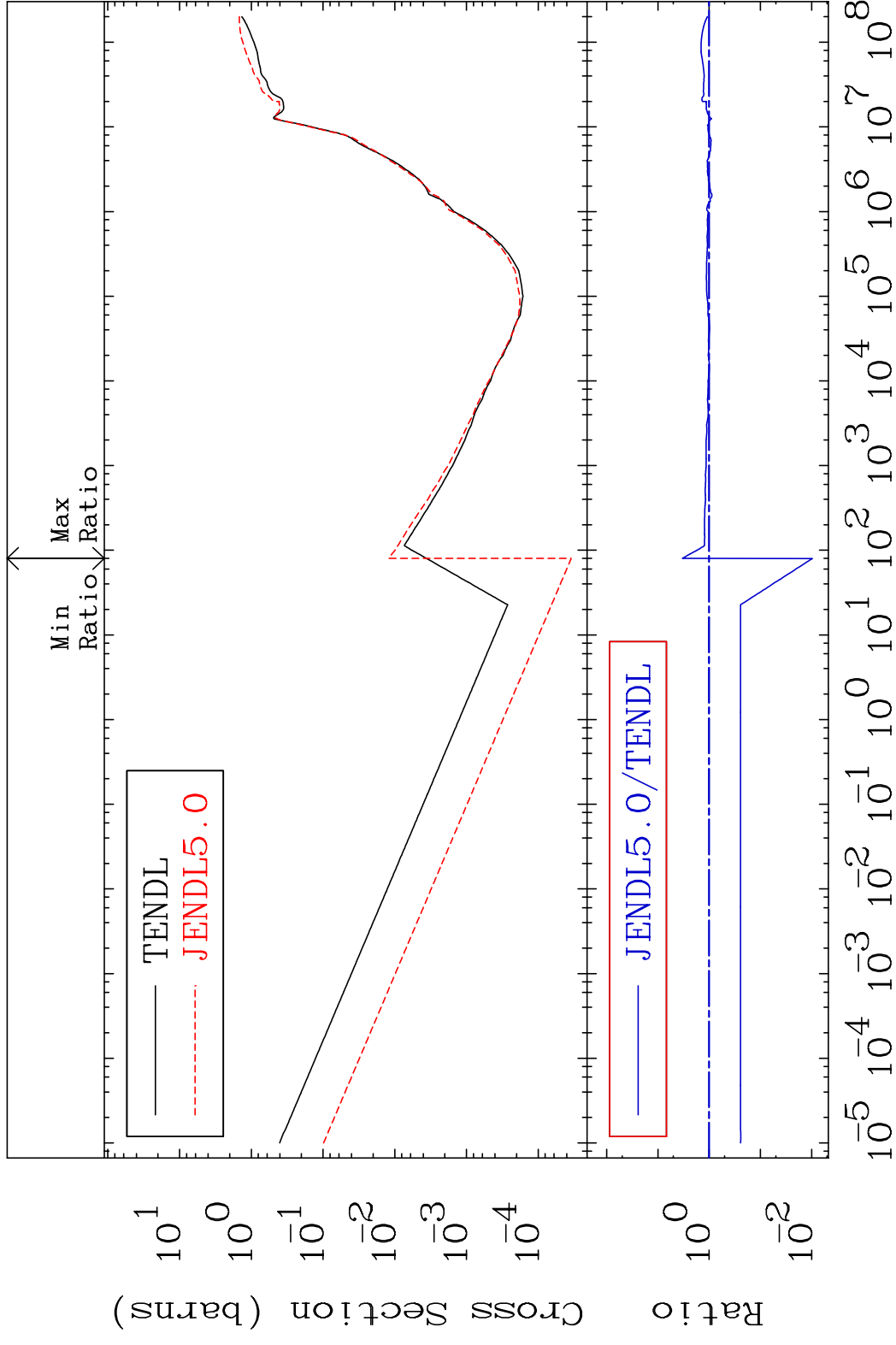
41-Nb-91

MAT 4119

Hydrogen Production

41-Nb-91

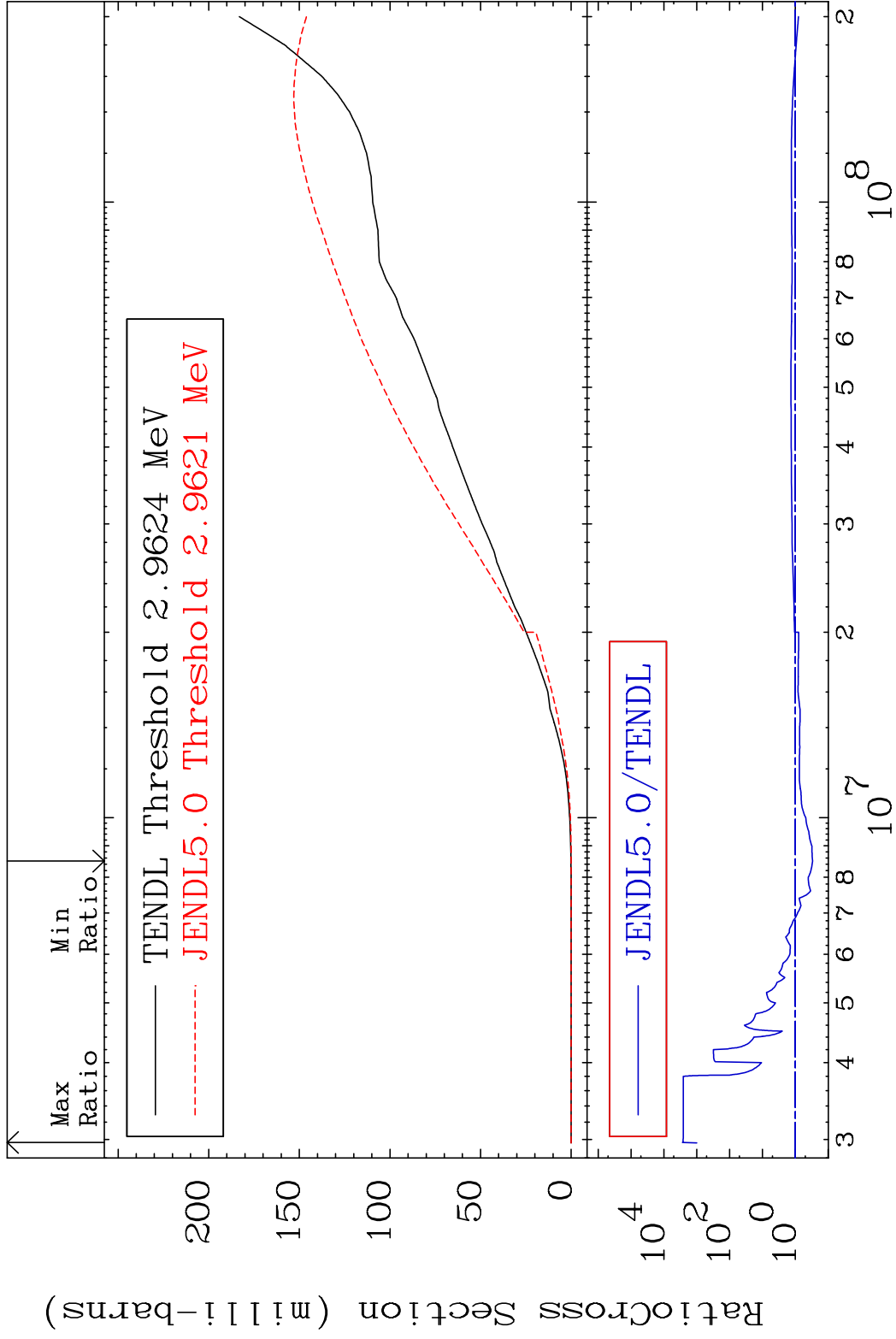
Cross Section -99.04 To 233.4 %



33

Incident Energy (eV)

41-Nb-91

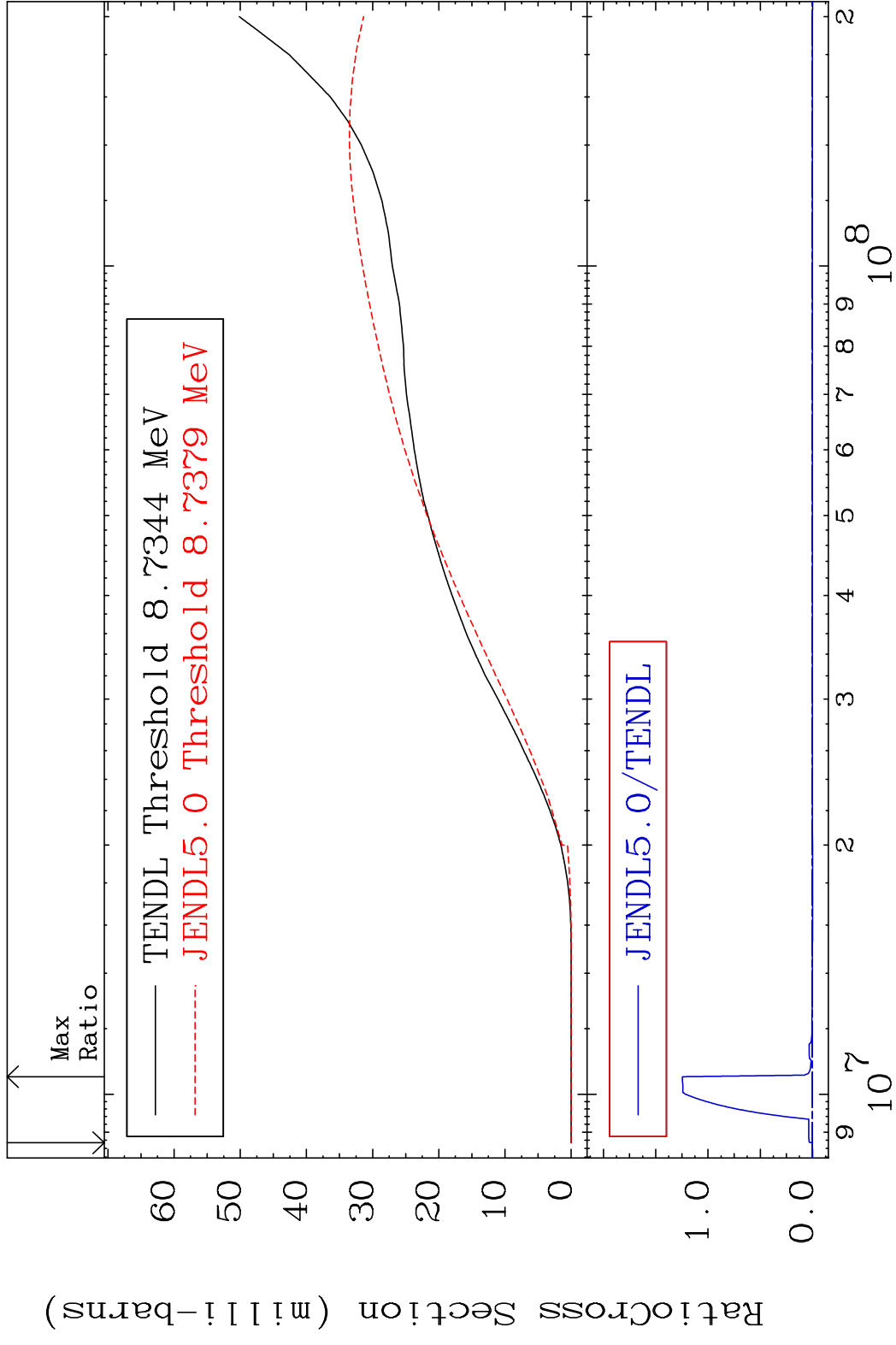


MAT 4119

Tritium Production

41-Nb-91

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

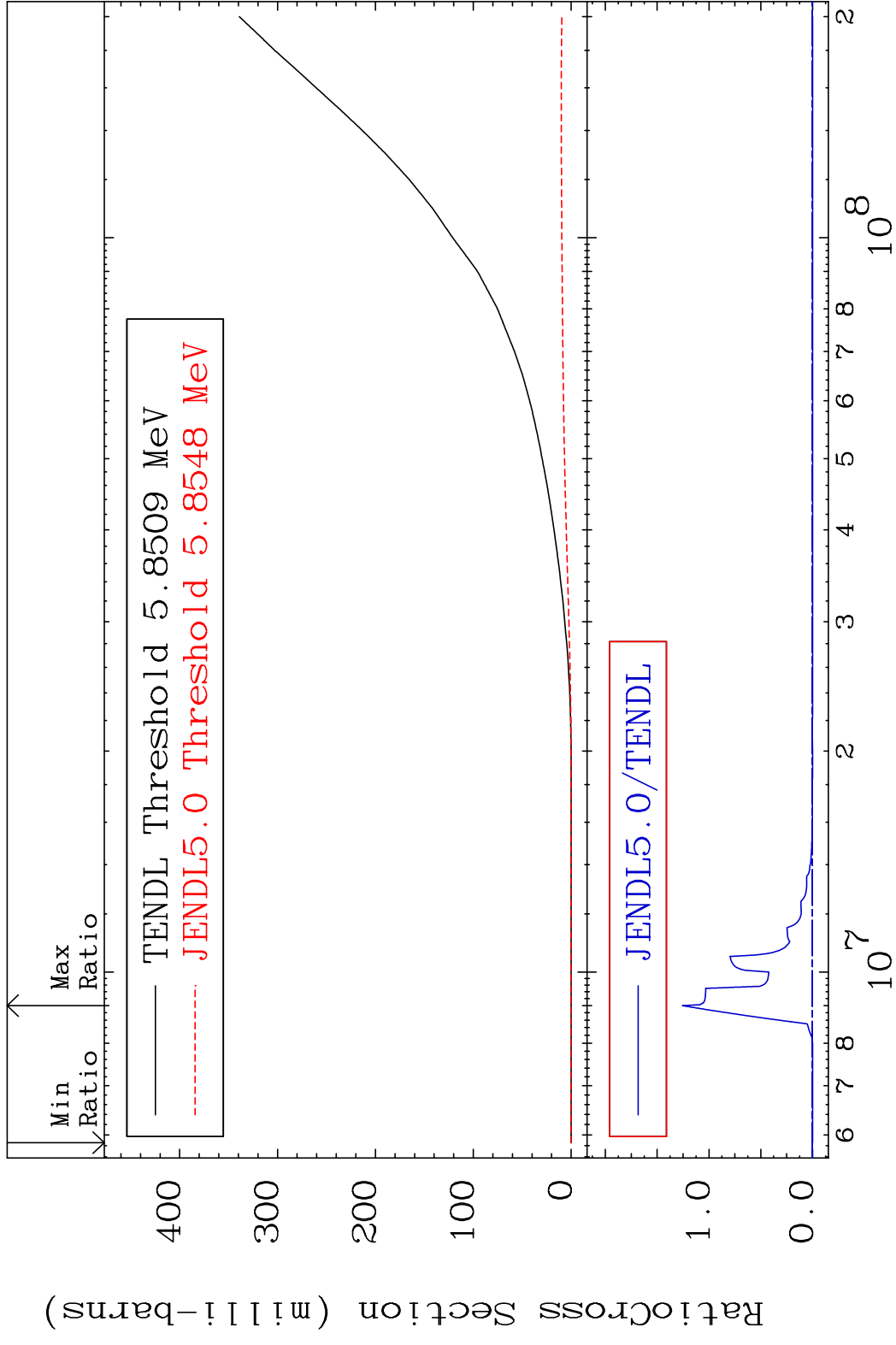
41-Nb-91

MAT 4119

He-3 Production

41-Nb-91

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

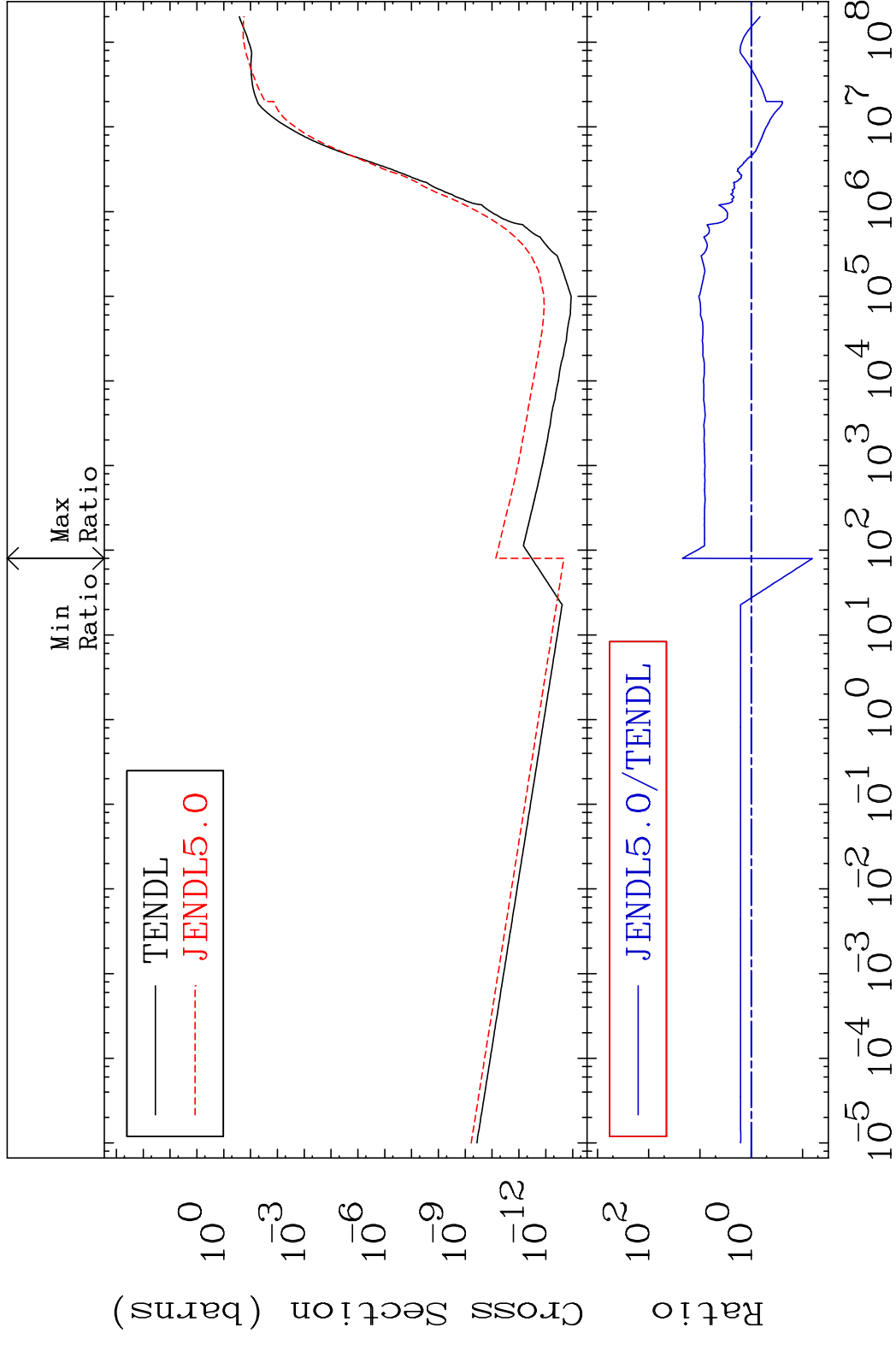
41-Nb-91

MAT 4119

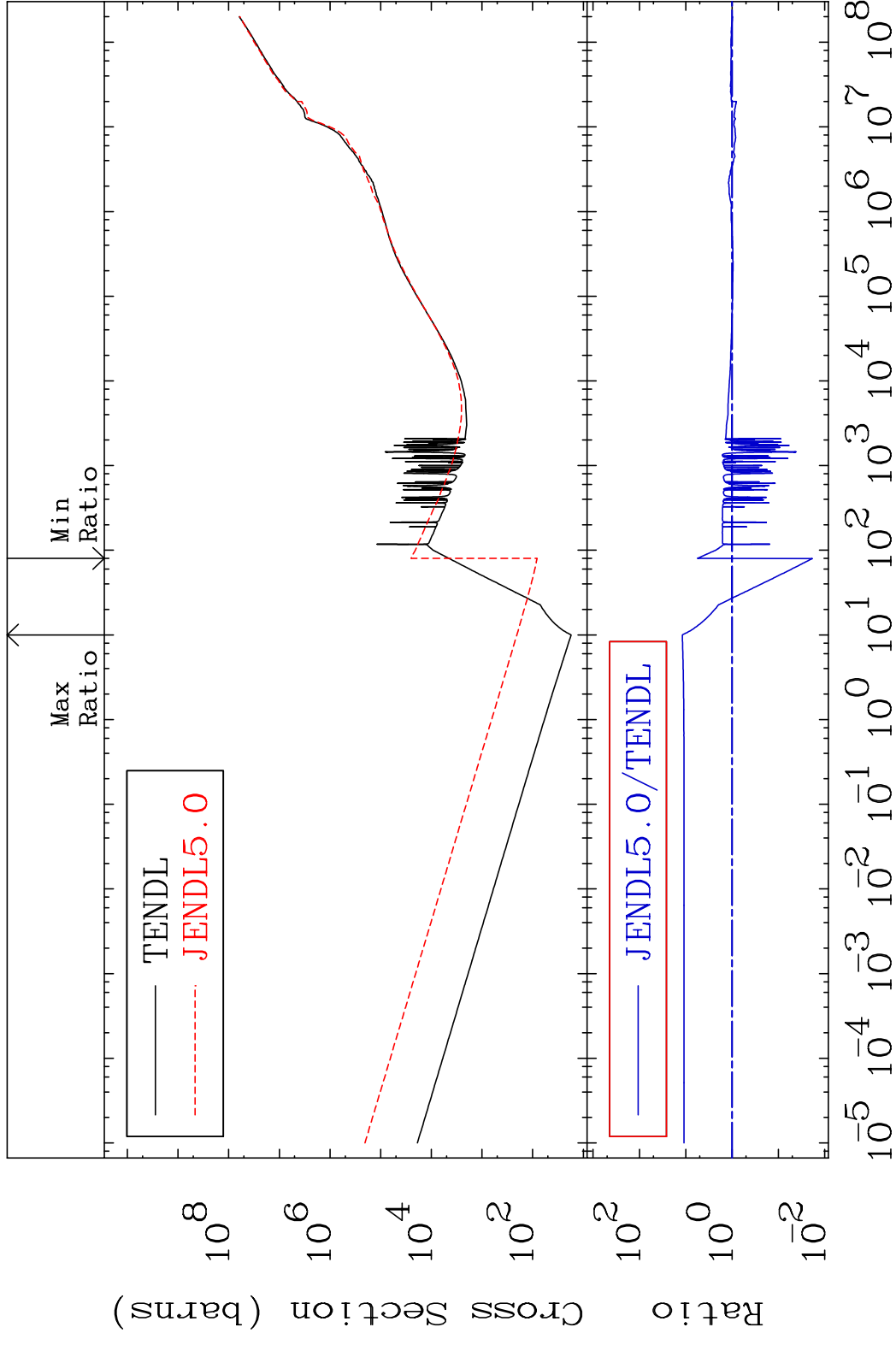
He-4 Production

41-Nb-91

Cross Section -93.64 To 2108. %

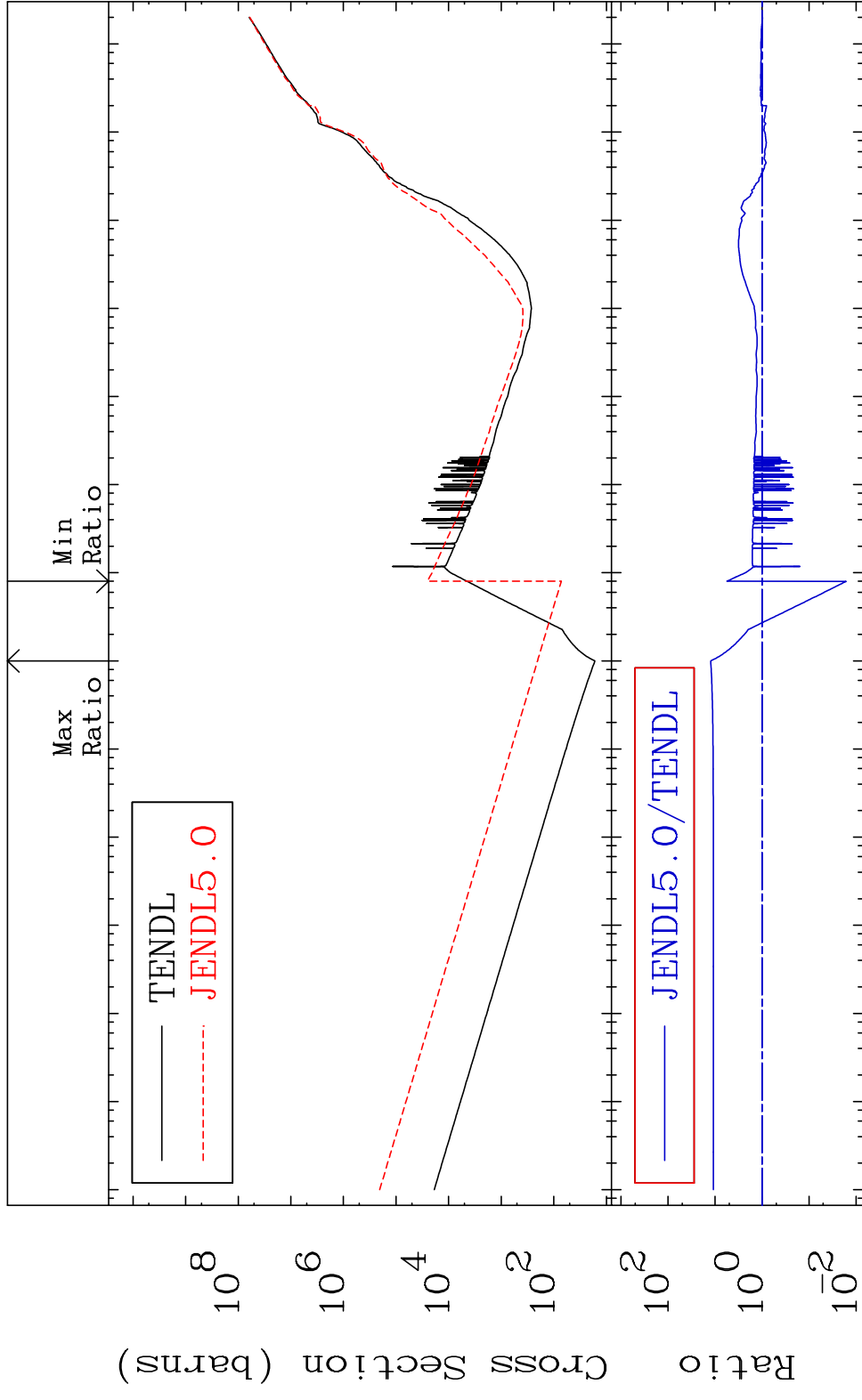


MAT 4119 Kerma total (eV-barns) 41-Nb-91  
 Cross Section -98.17 To 1083. %



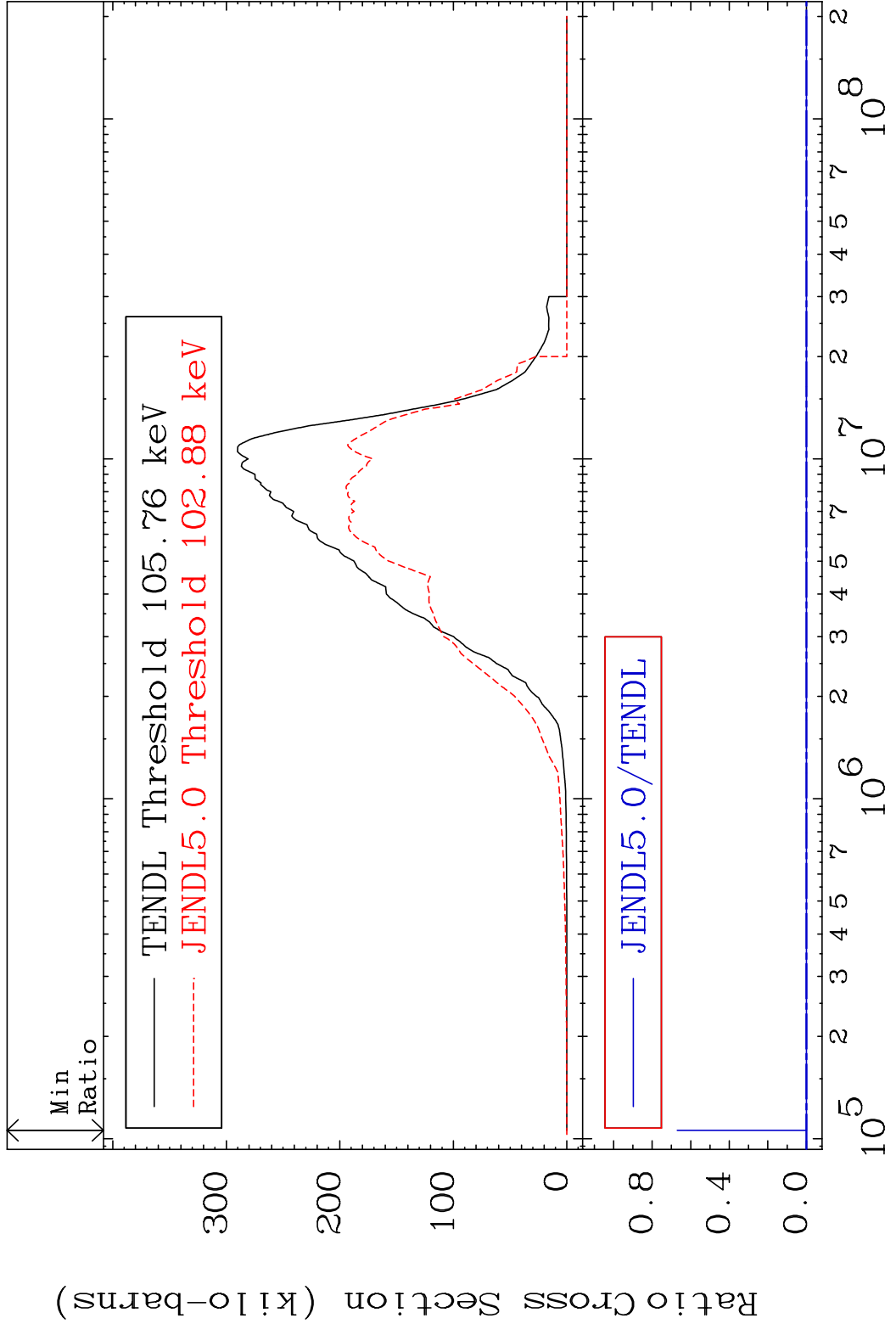


MAT 4119 Kerma non-elastic (all but mt2) 41-Nb-91  
 Cross Section -98.39 To 1135. %



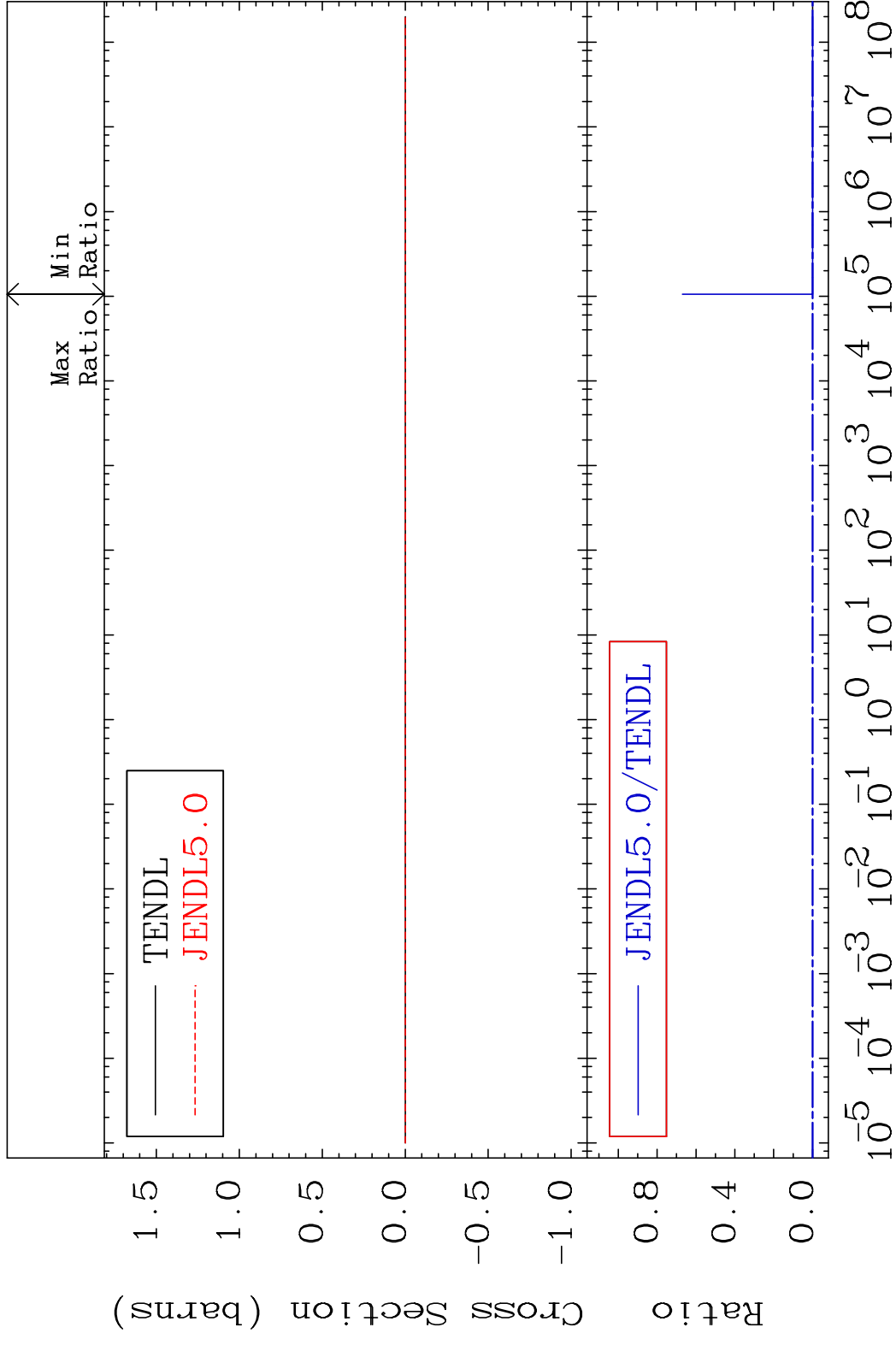
40 Incident Energy (eV) 41-Nb-91

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



41 41-Nb-91

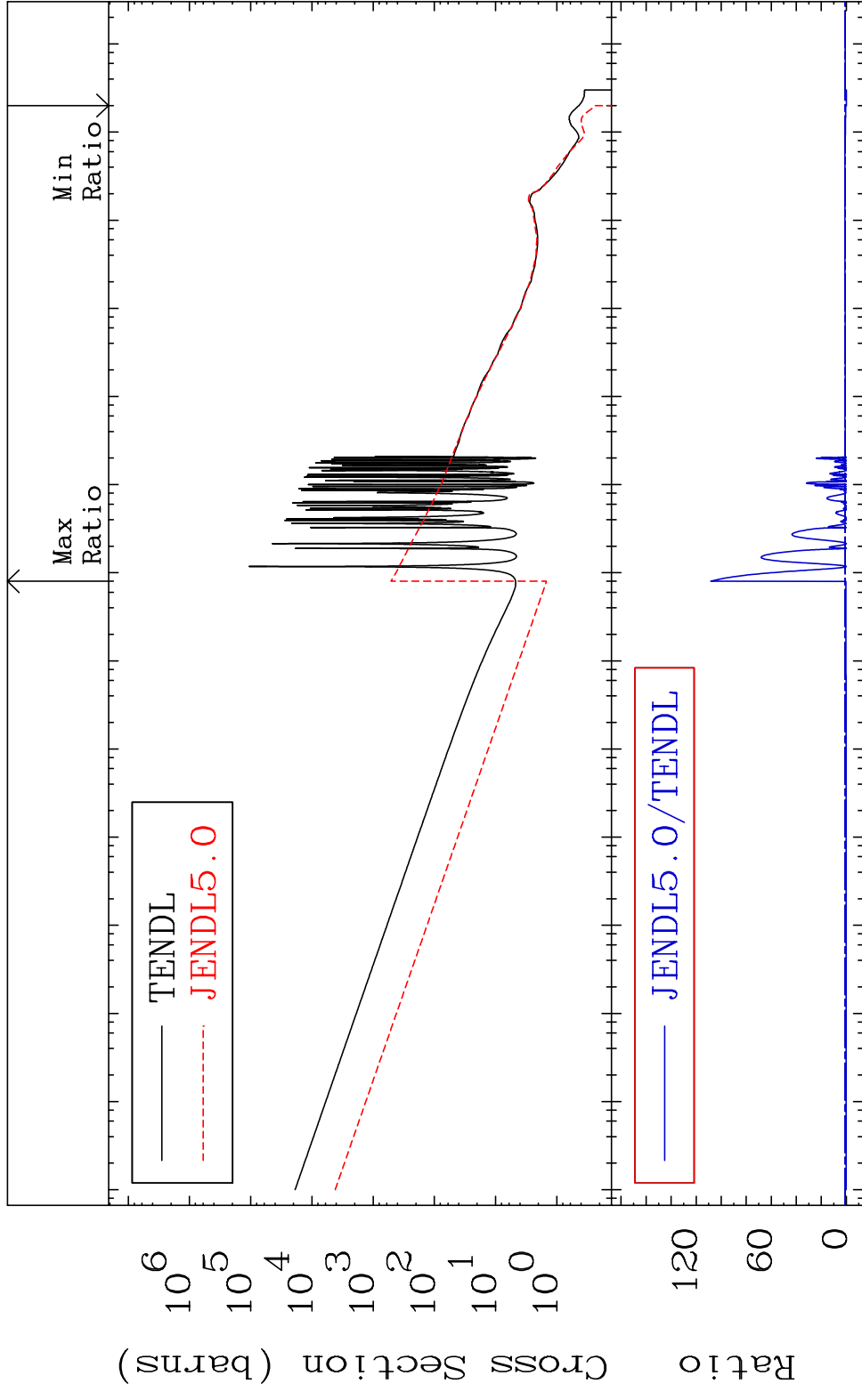
MAT 4119 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-91  
 Cross Section -9999. To 9999. %



MAT 4119

Kerma capture (mt102) 41-Nb-91

Cross Section -100.0 To 9999. %



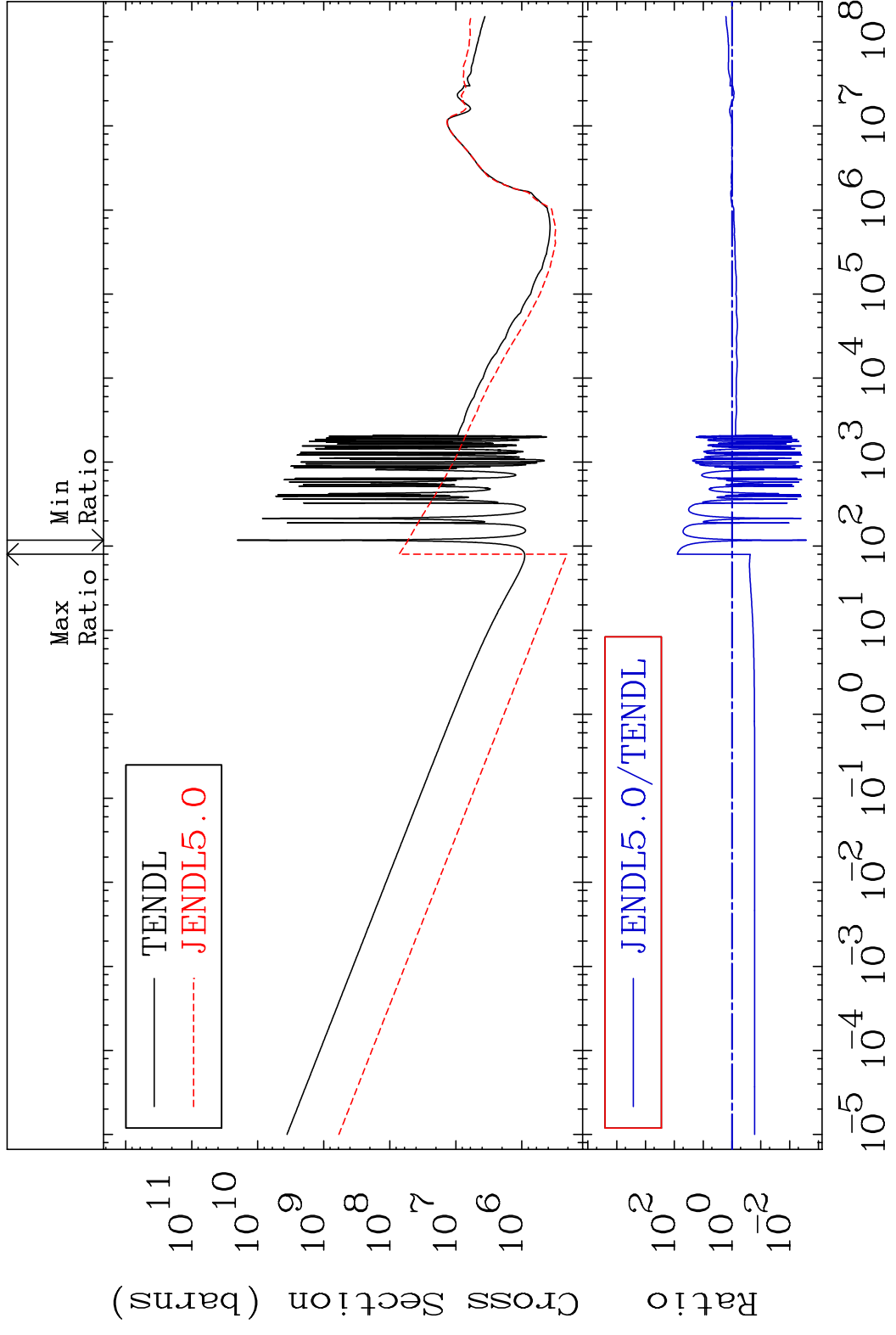
43

Incident Energy (eV)

41-Nb-91

MAT 4119

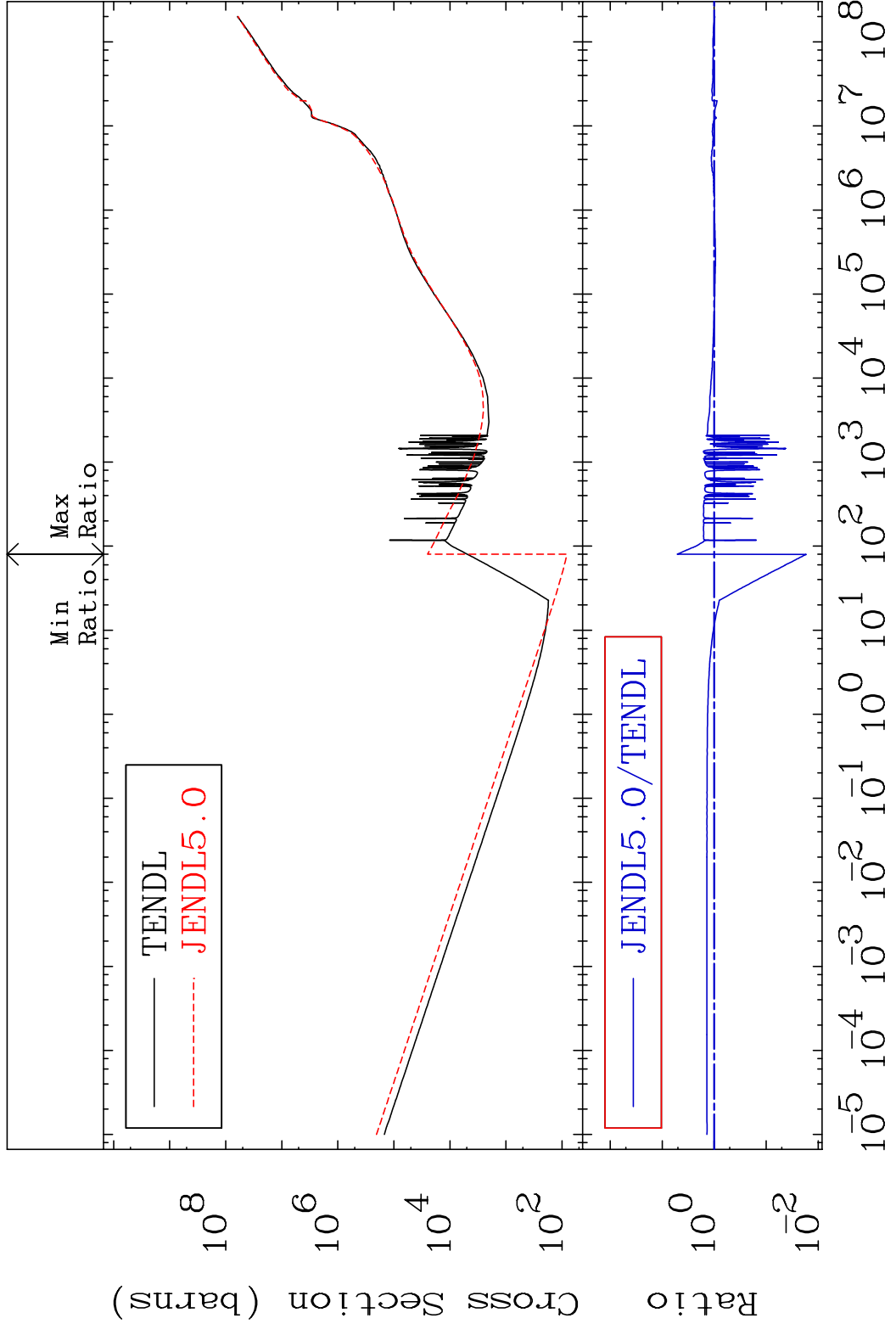
Total photon (eV-barns) 41-Nb-91  
Cross Section -99.74 To 7867. %



44

Incident Energy (eV) 41-Nb-91

MAT 4119 Total kinematic kerma (high limit) 41-Nb-91  
Cross Section -98.32 To 415.3 %



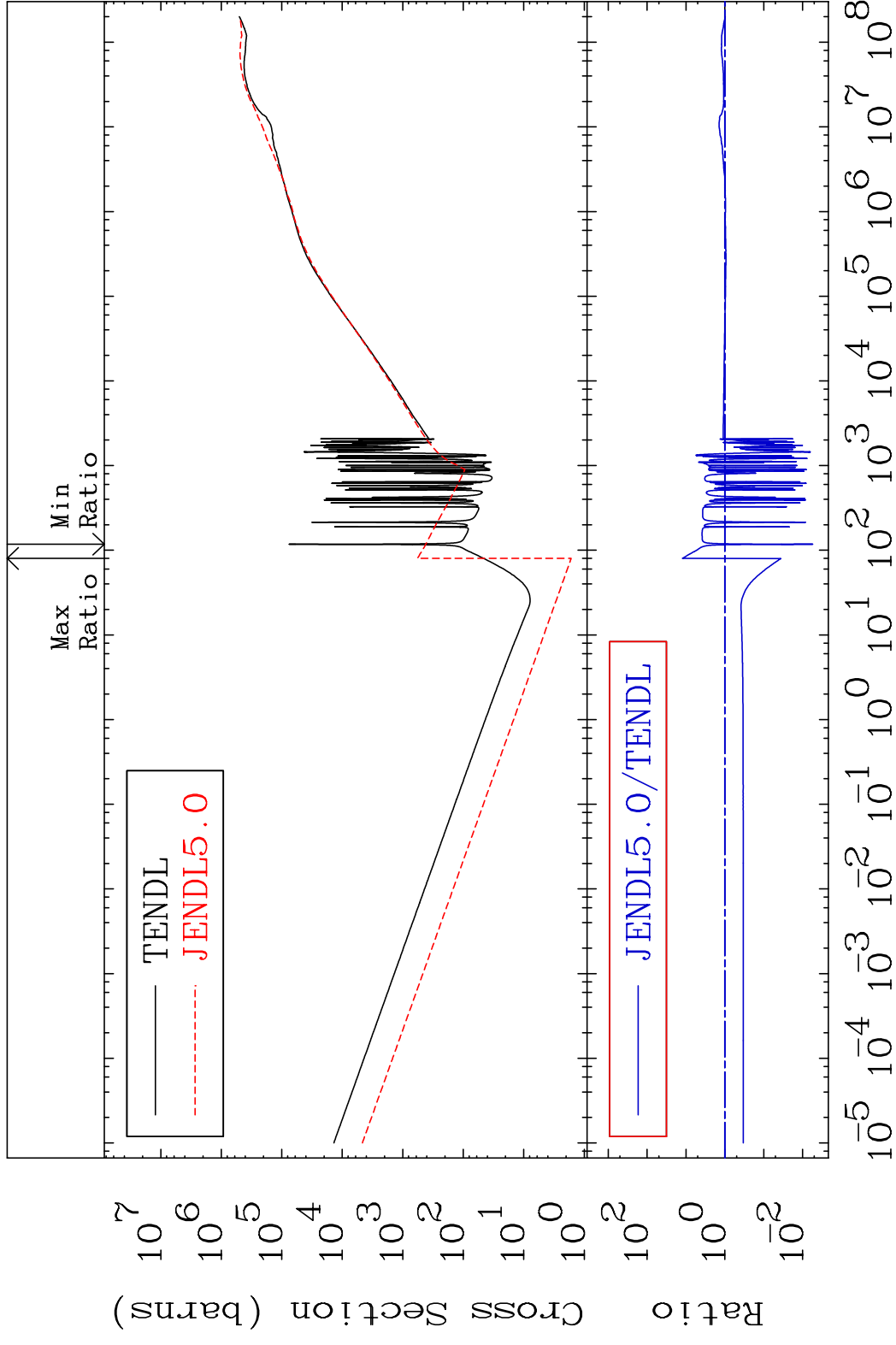
45 Incident Energy (eV) 41-Nb-91

MAT 4119

Dpa total (eV-barns)

41-Nb-91

Cross Section -99.45 To 1140. %

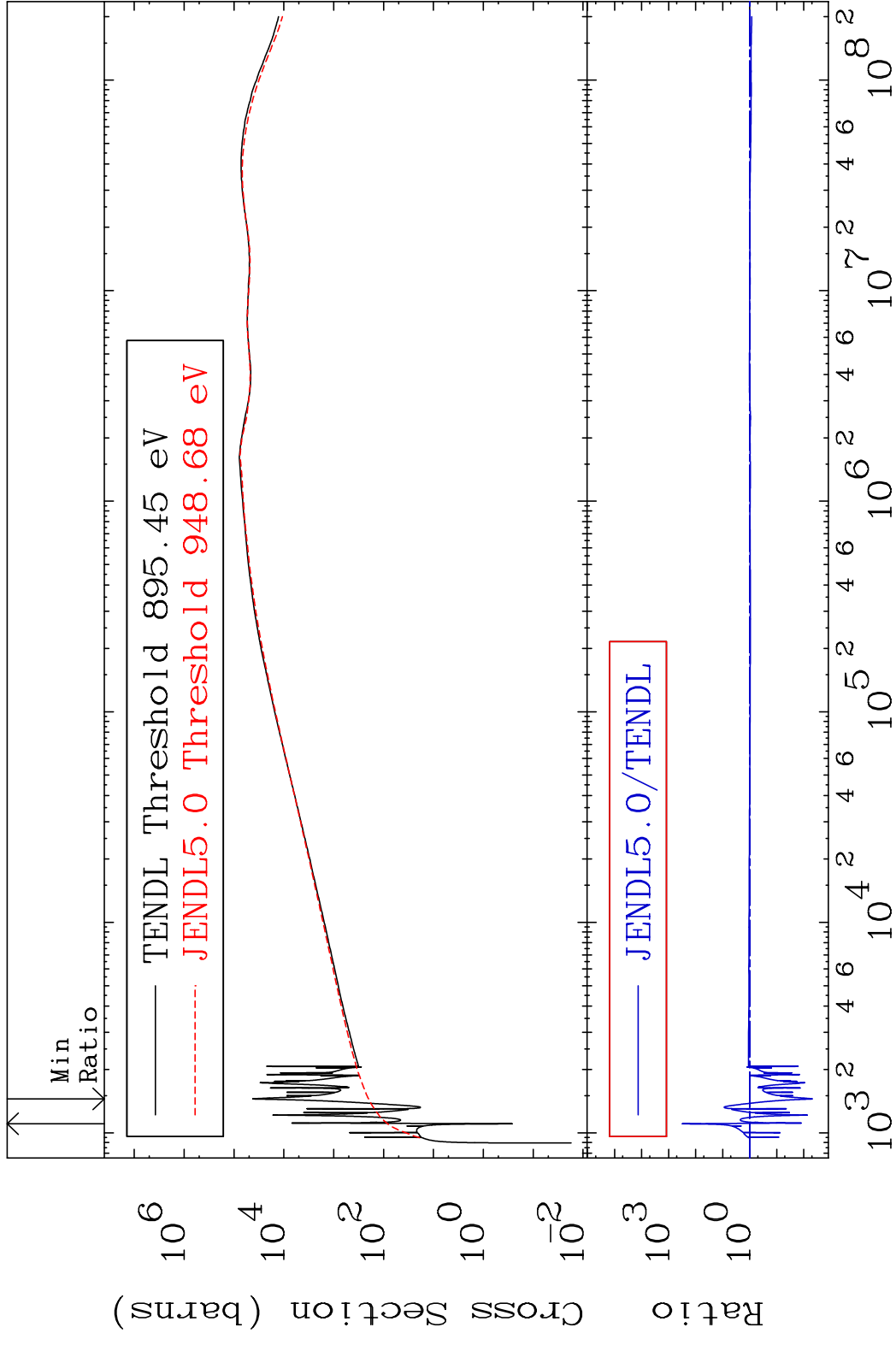


MAT 4119

Dpa elastic (mt2)

41-Nb-91

Cross Section -99.53 To 9999. %



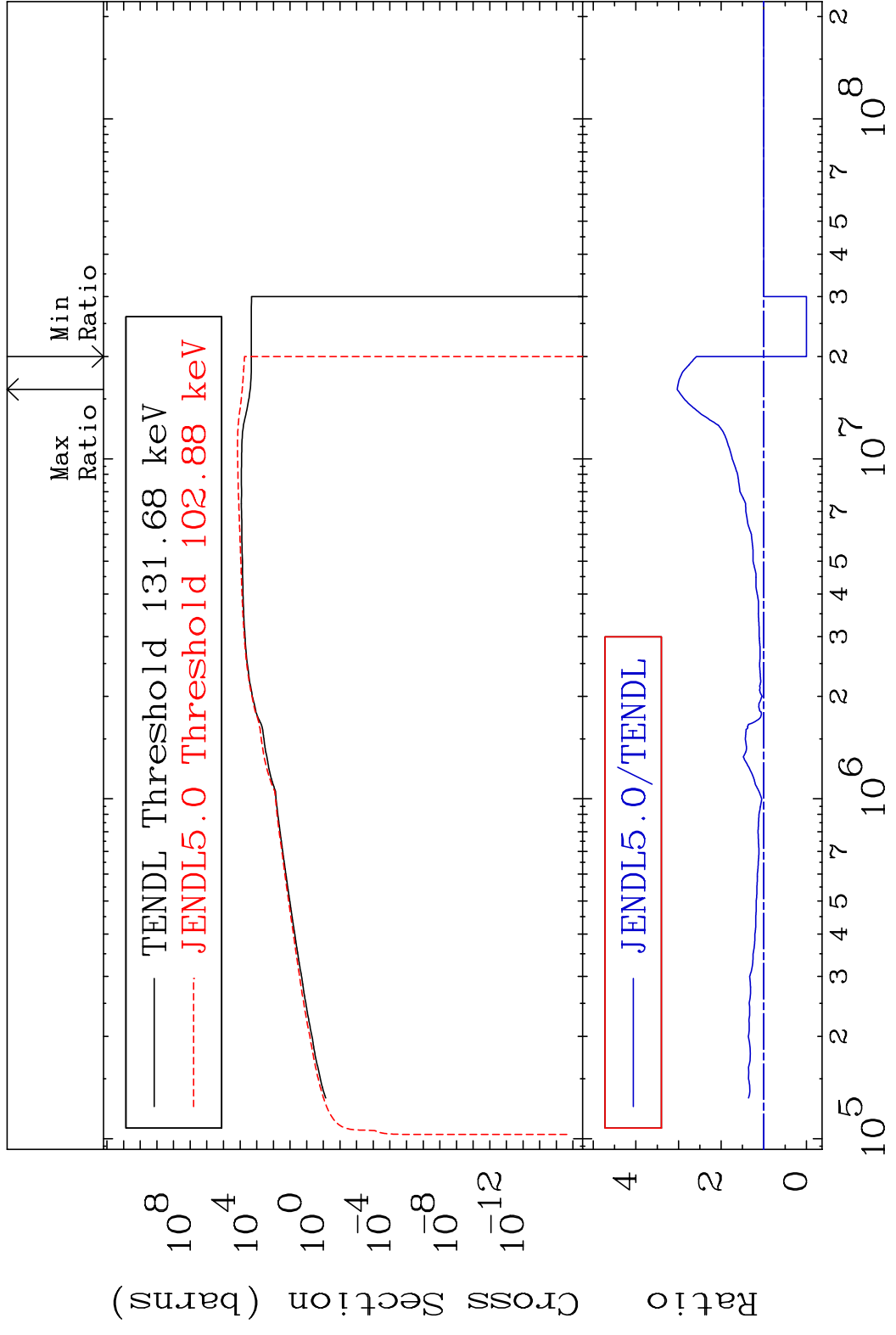
47

Incident Energy (eV)

41-Nb-91

MAT 4119

Dpa inelastic (mt51-91) 41-Nb-91  
Cross Section -100.0 To 203.2 %

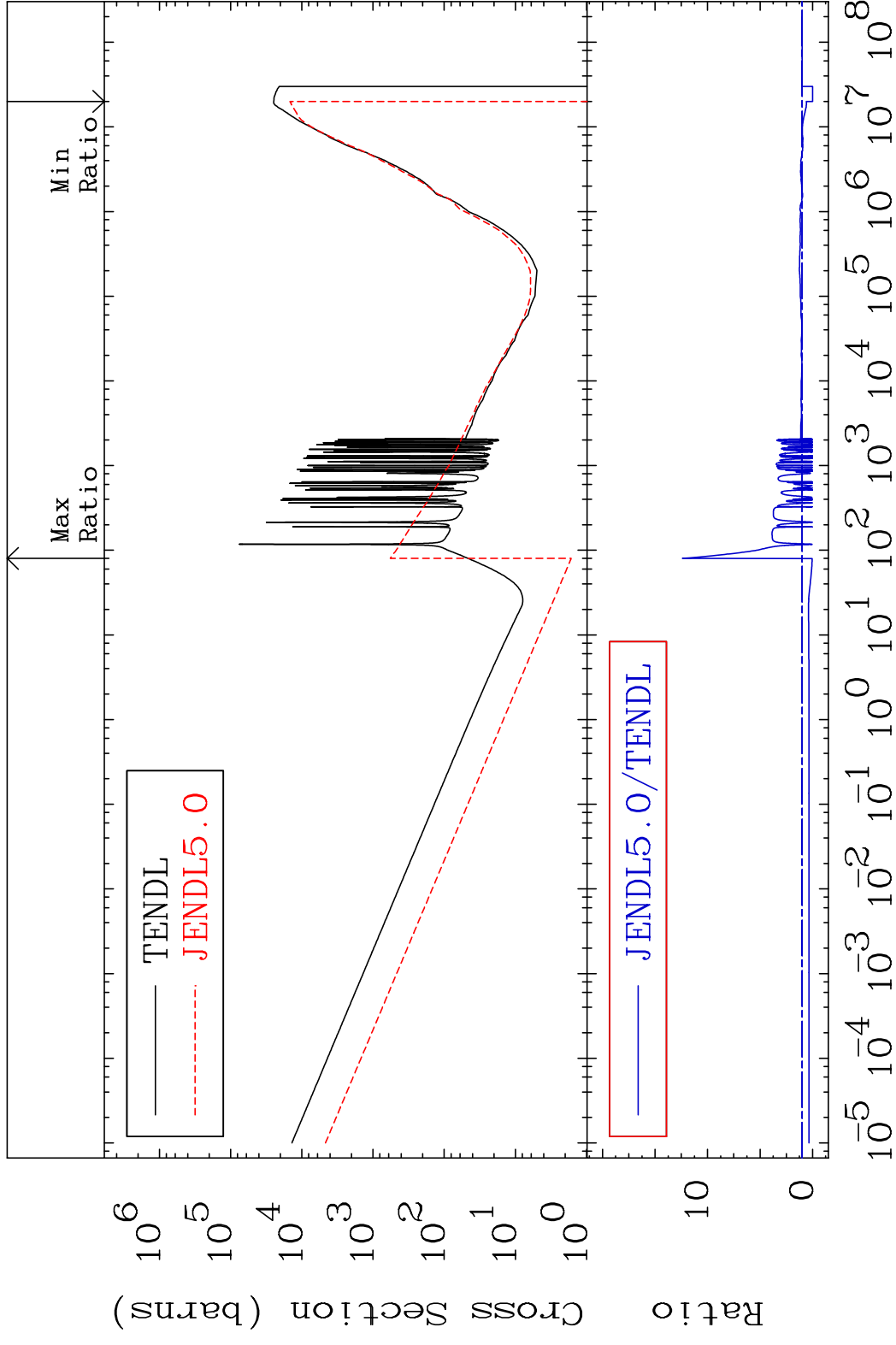


48

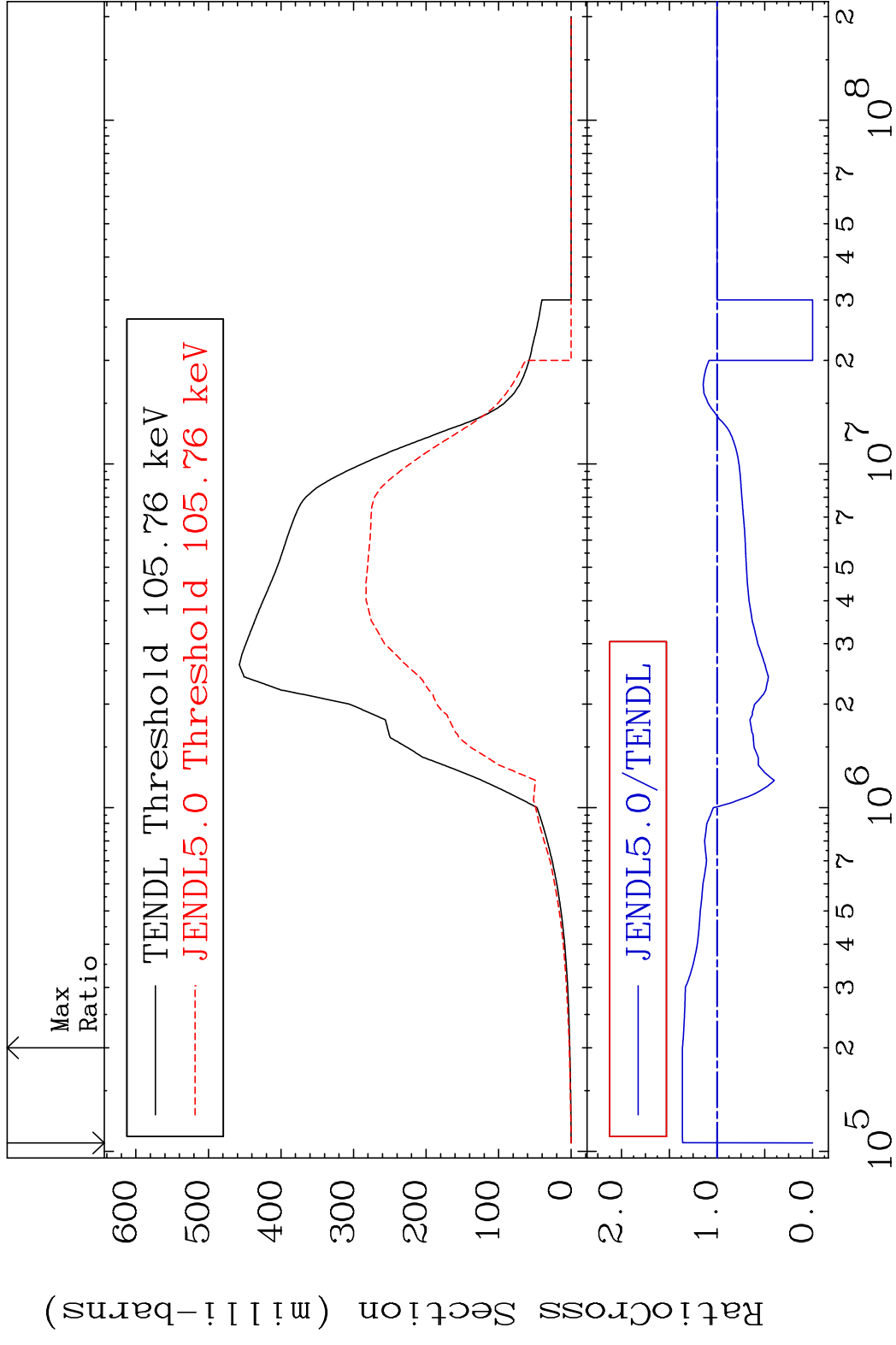
Incident Energy (eV)

41-Nb-91

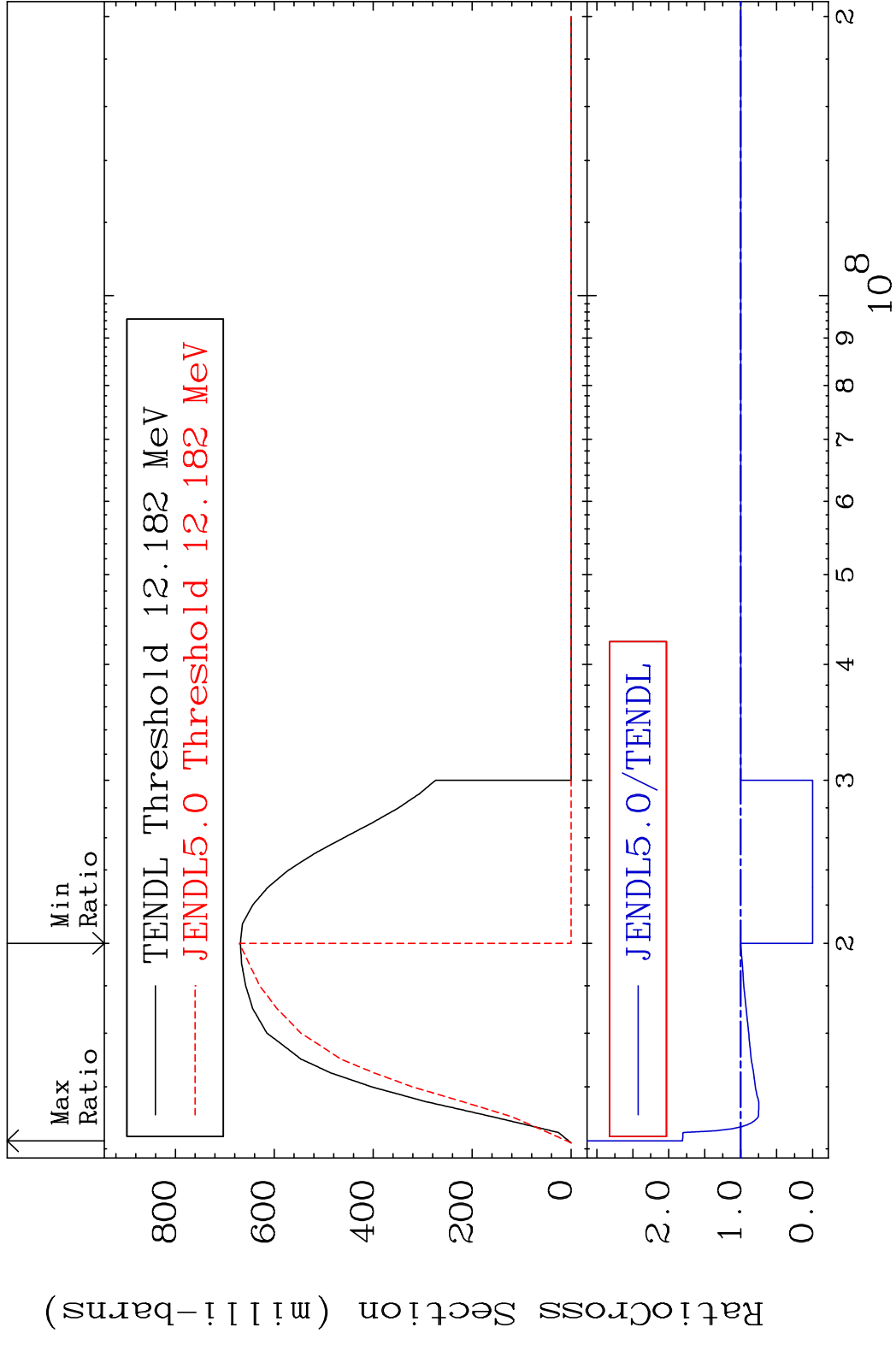
MAT 4119 Dpa disappearance (mt102 -120) 41-Nb-91  
 Cross Section -100.0 To 1140. %

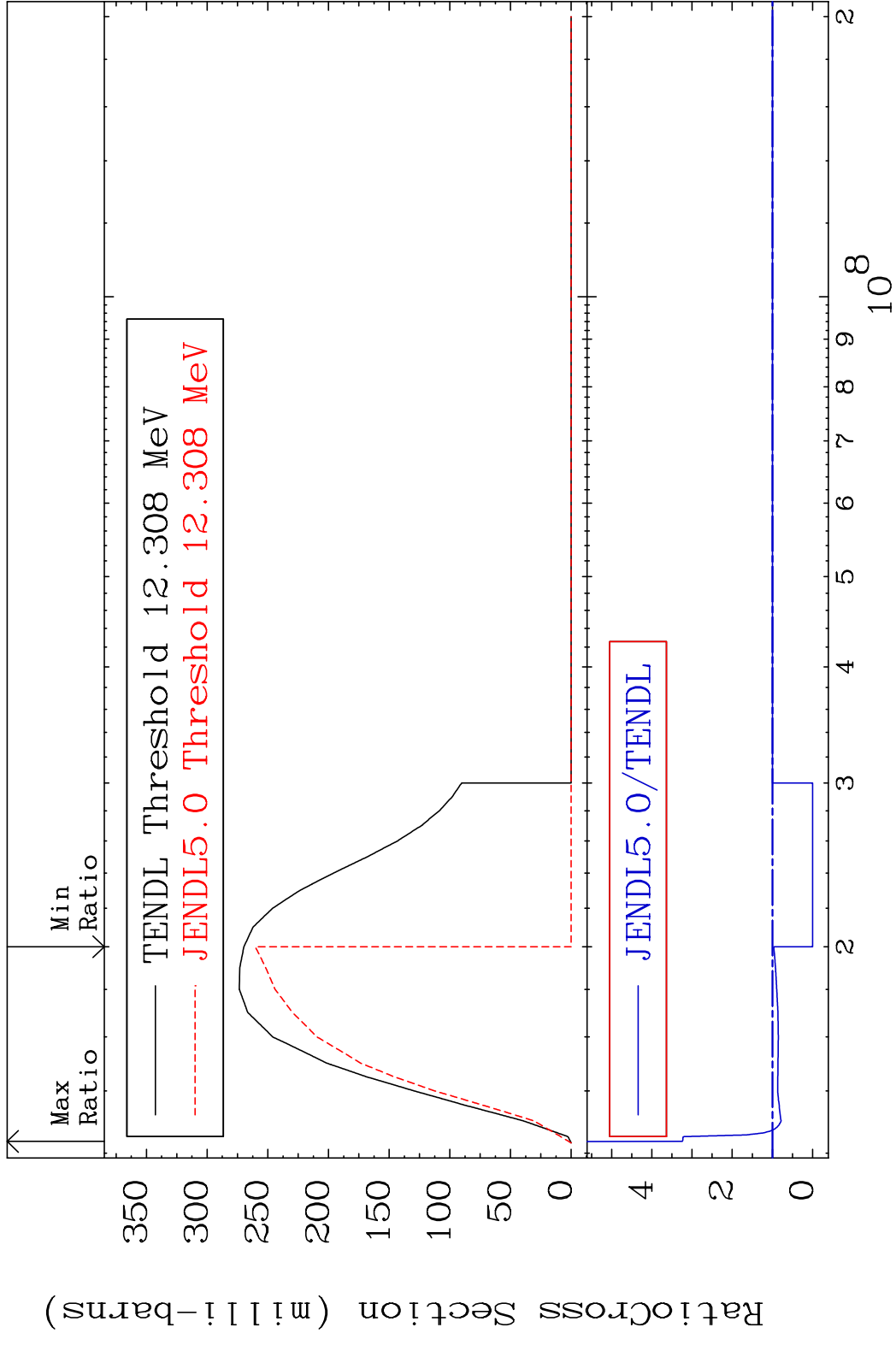


MAT 4119 Inelastic:41-Nb-91m1 41-Nb-91  
 Radionuclide Production Cross Section 180.01 dpo 36.36 %

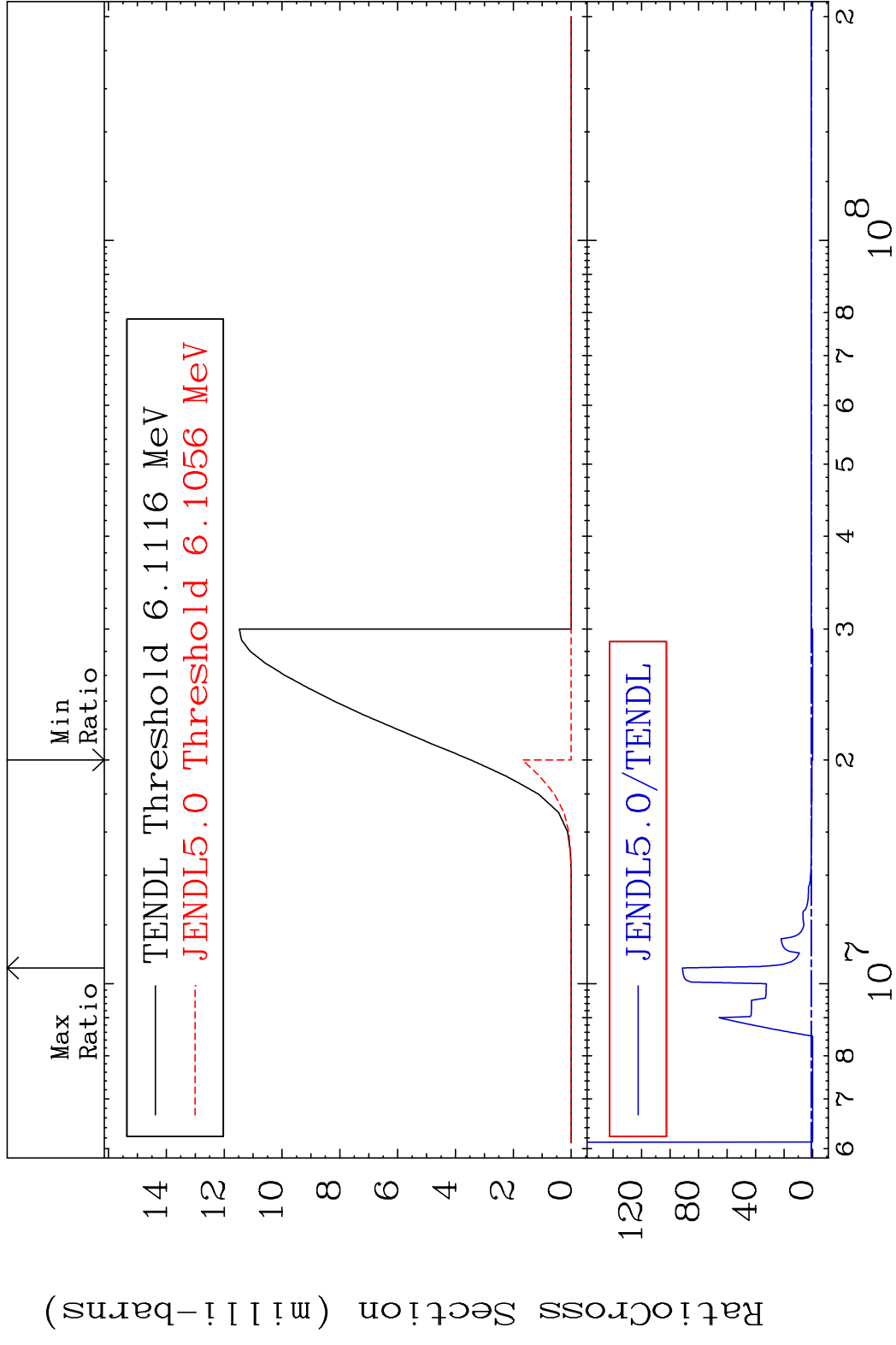


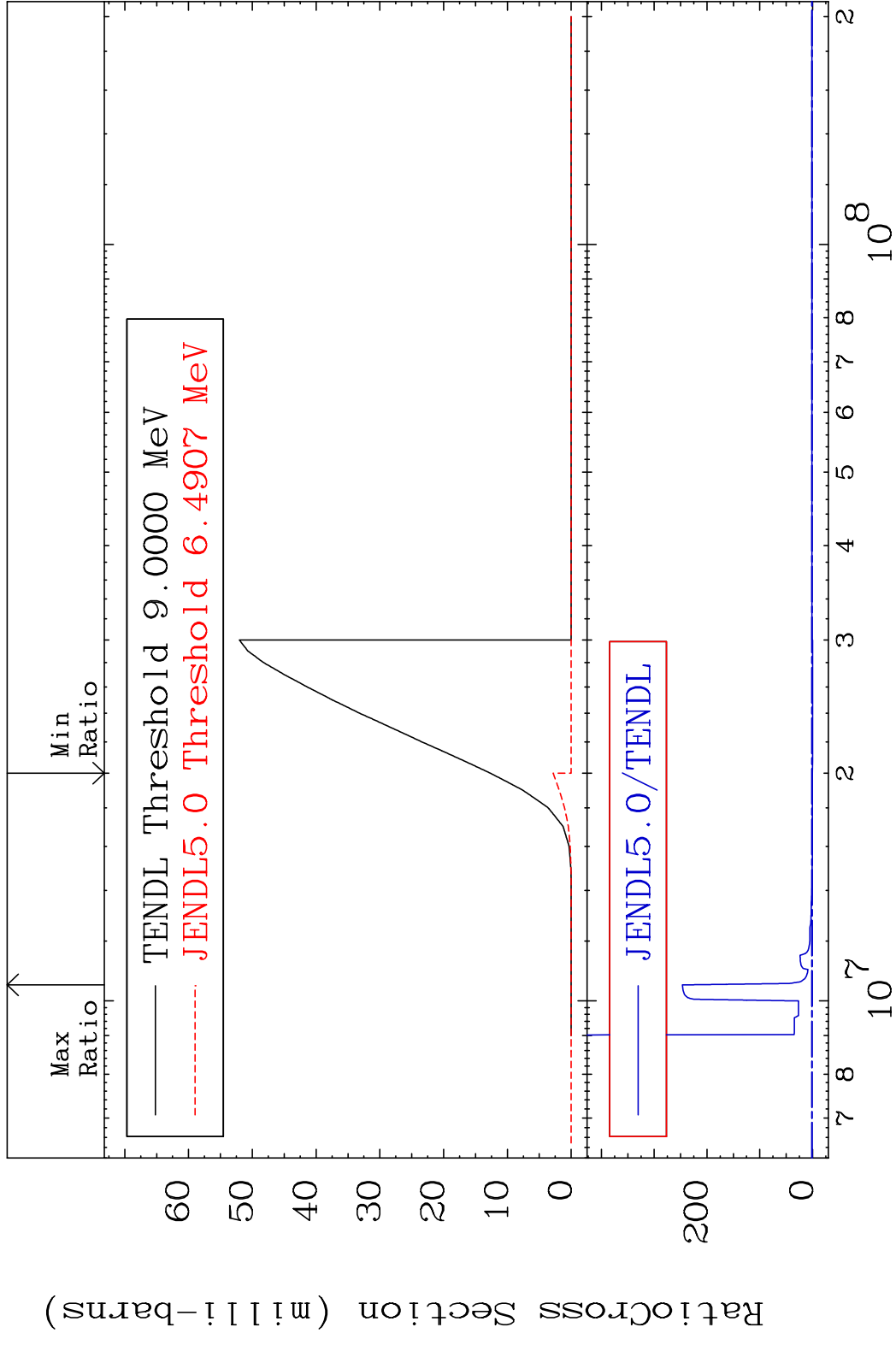
MAT 4119 (n,2n):41-Nb-90g 41-Nb-91  
 Radionuclide Production Cross Section Ratio 81.09 %

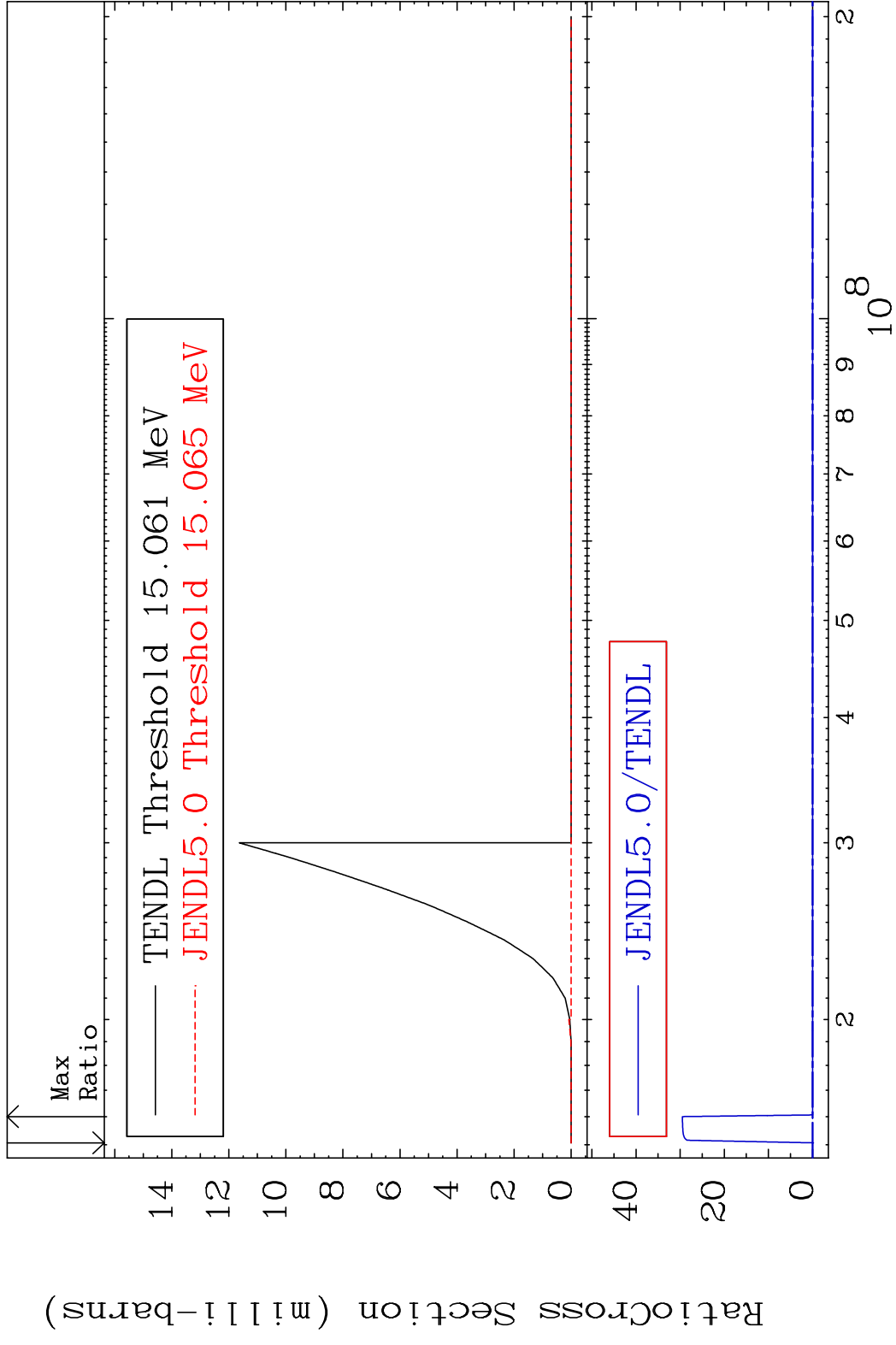




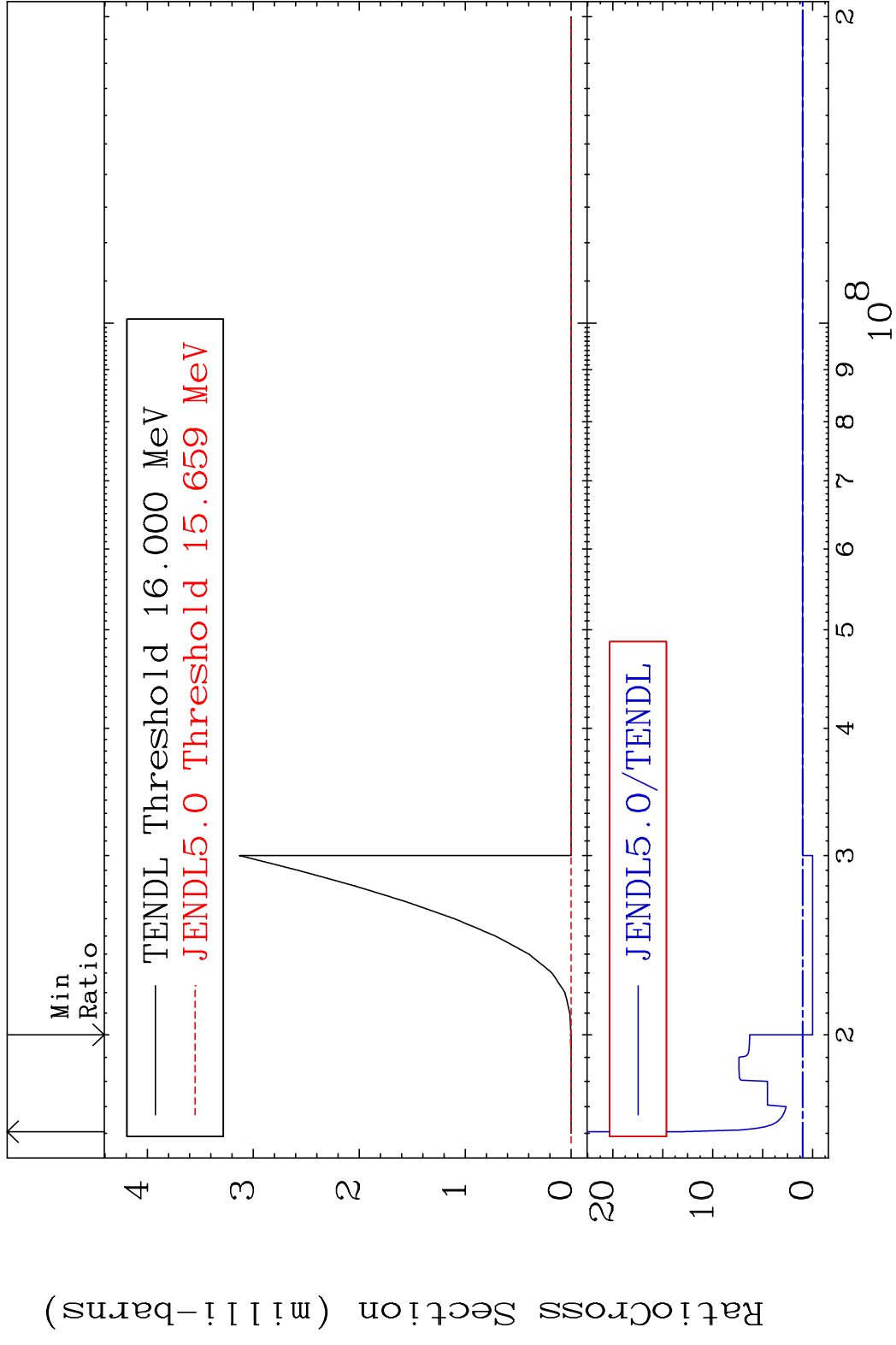
MAT 4119 (n, n')  $\alpha$ :39-Y -87g 41-Nb-91  
 Radionuclide Production Cross Section Ratio 9036. %

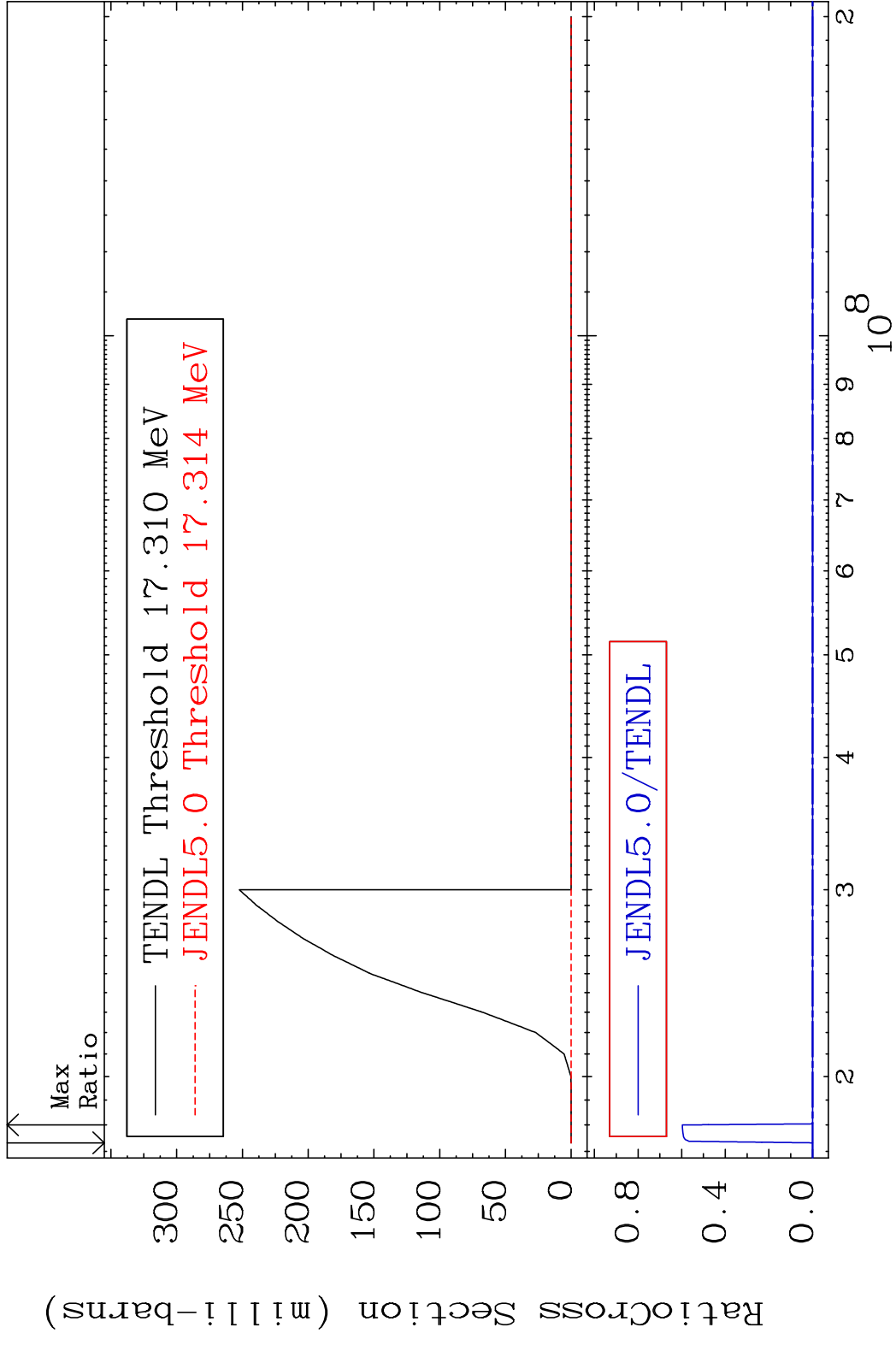


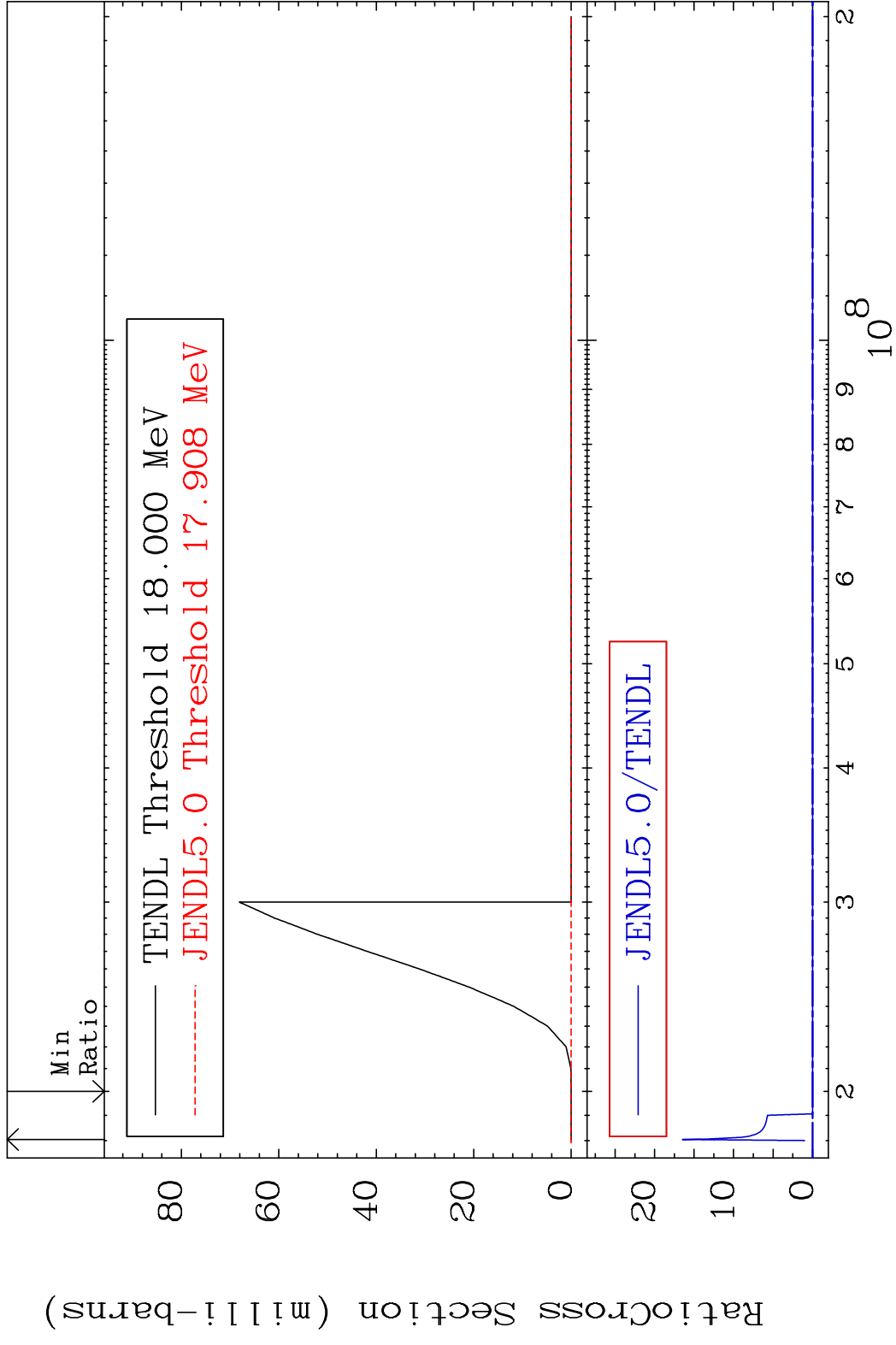




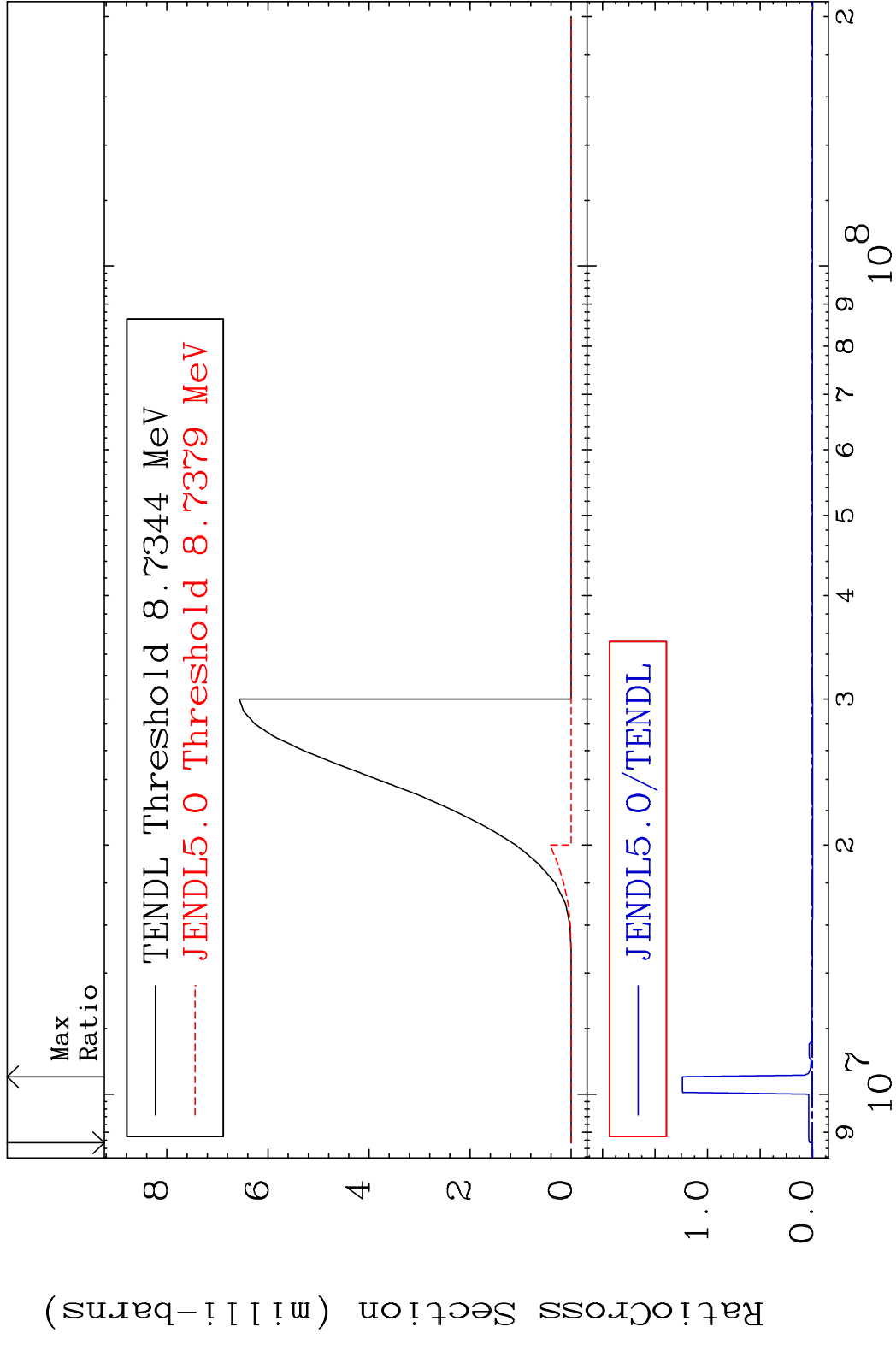
MAT 4119 (n, n') d:40-Zr-89m1 41-Nb-91  
 Radionuclide Production Cross Section 1800.0 dno 1203. %



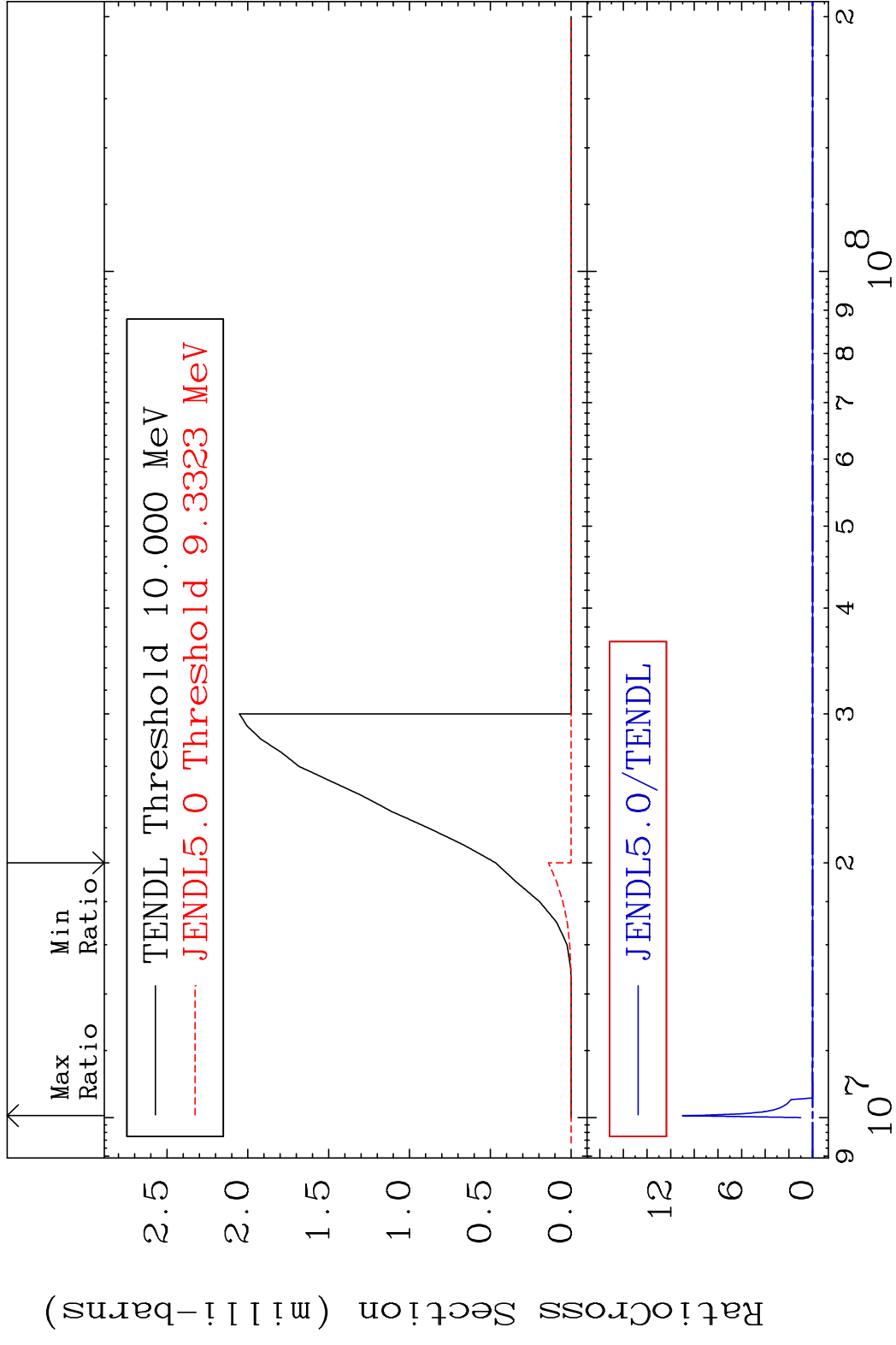




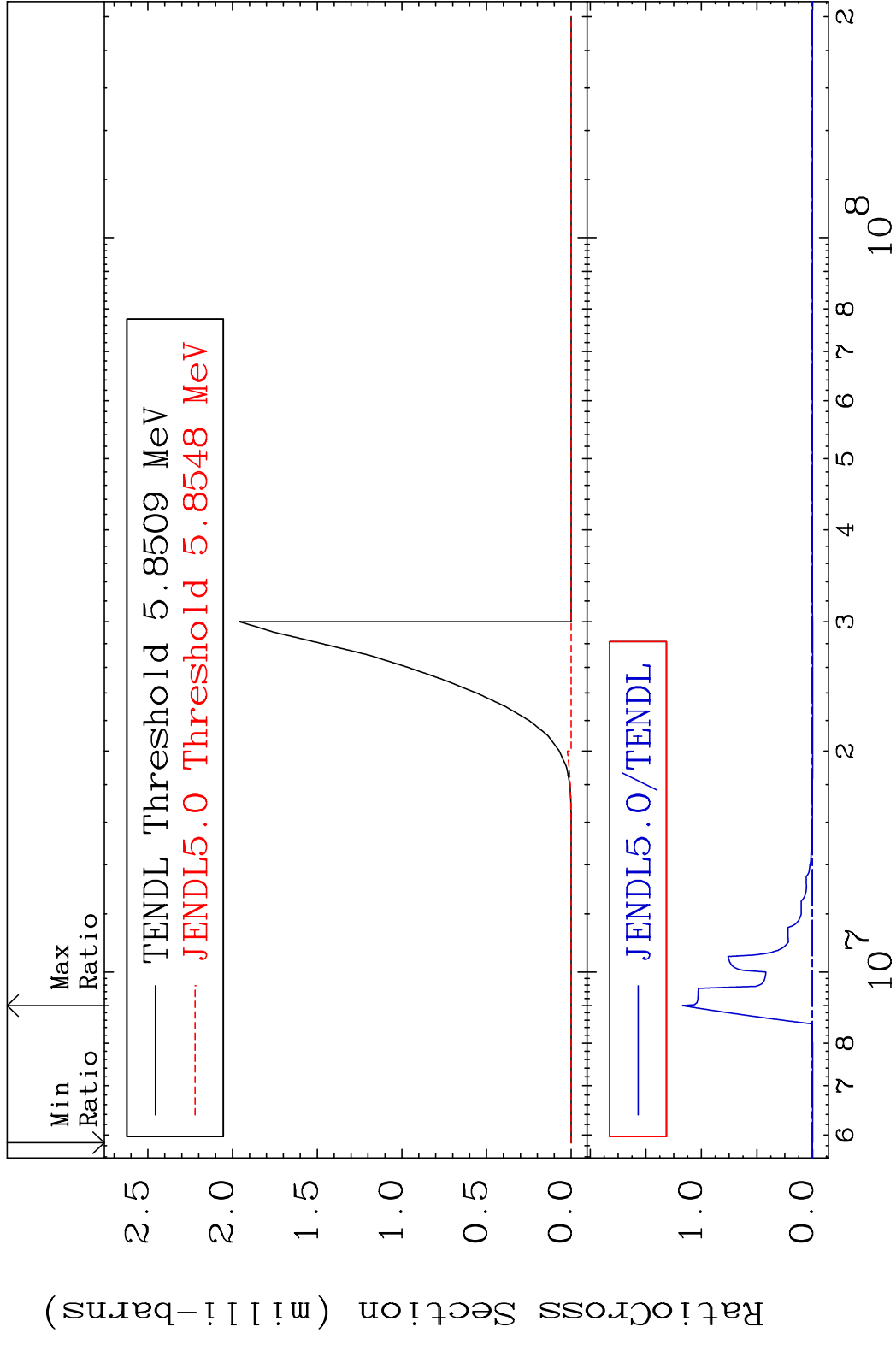
MAT 4119 (n, t): 40-Zr-89g 41-Nb-91  
 Radionuclide Production Cross Section Ratio 9999. %



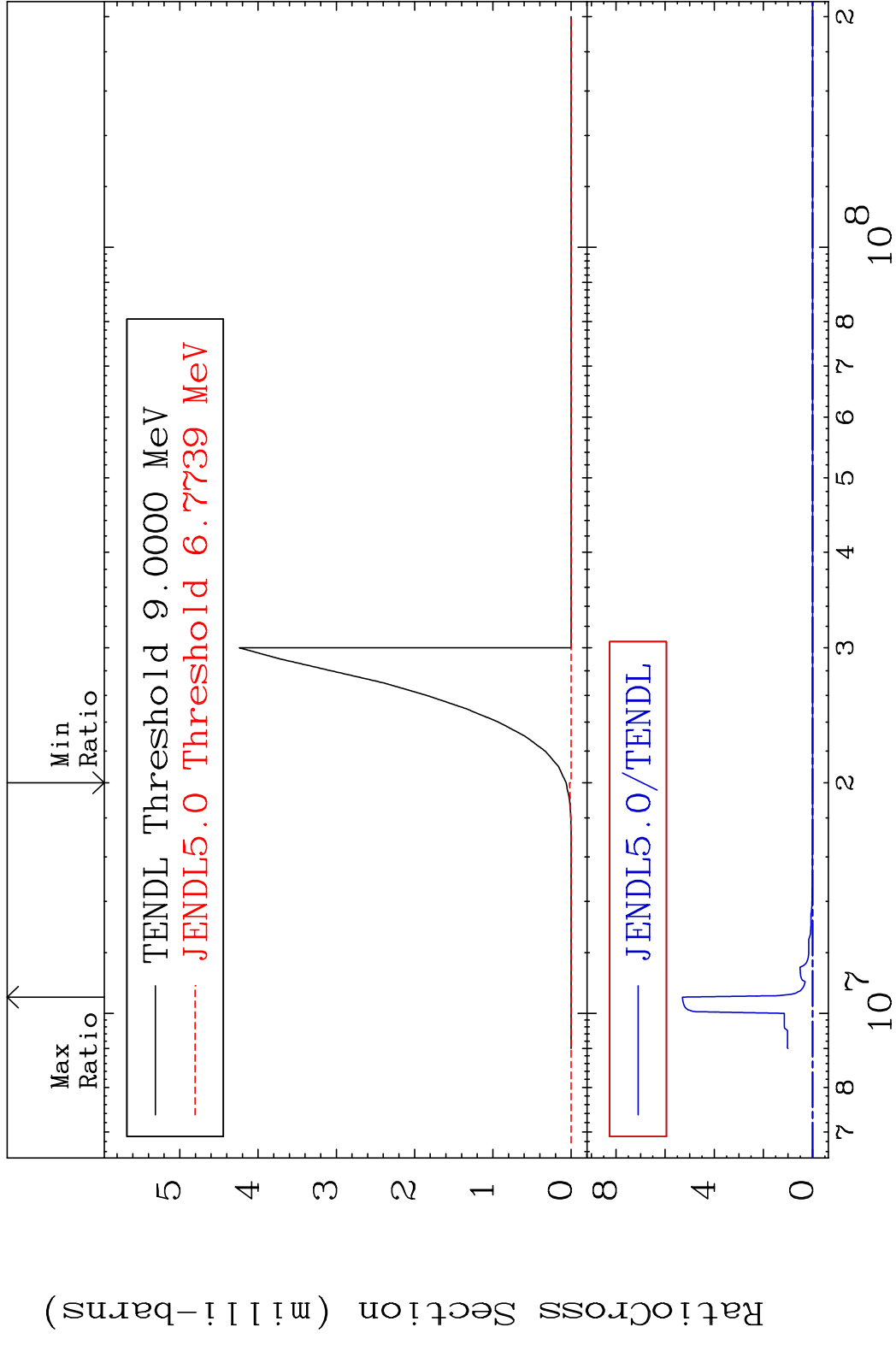
MAT 4119 (n,t):40-Zr-89m1 41-Nb-91  
 Radionuclide Production Cross Section 100.00 to 9999.00 %



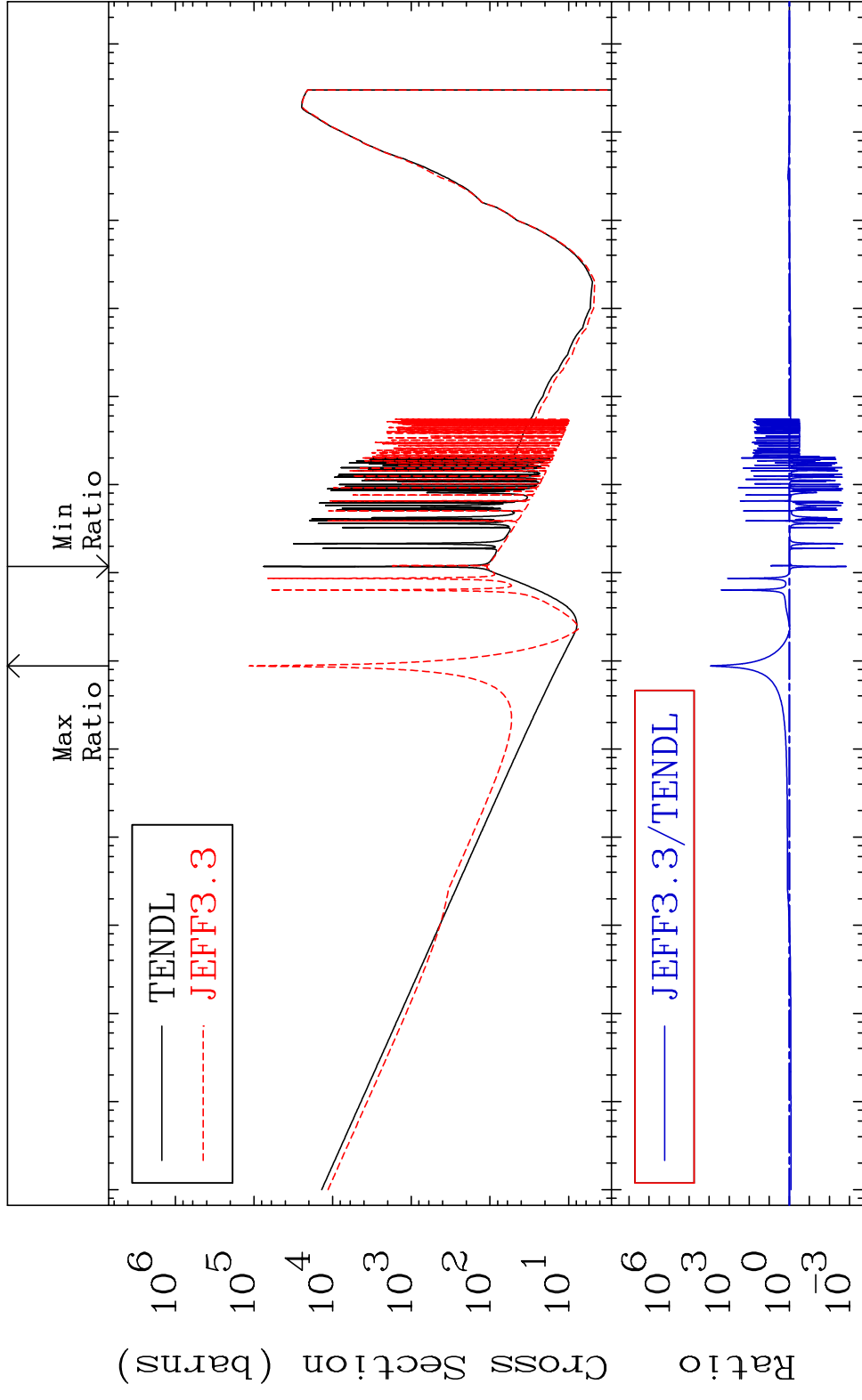
60 Incident Energy (eV) 41-Nb-91



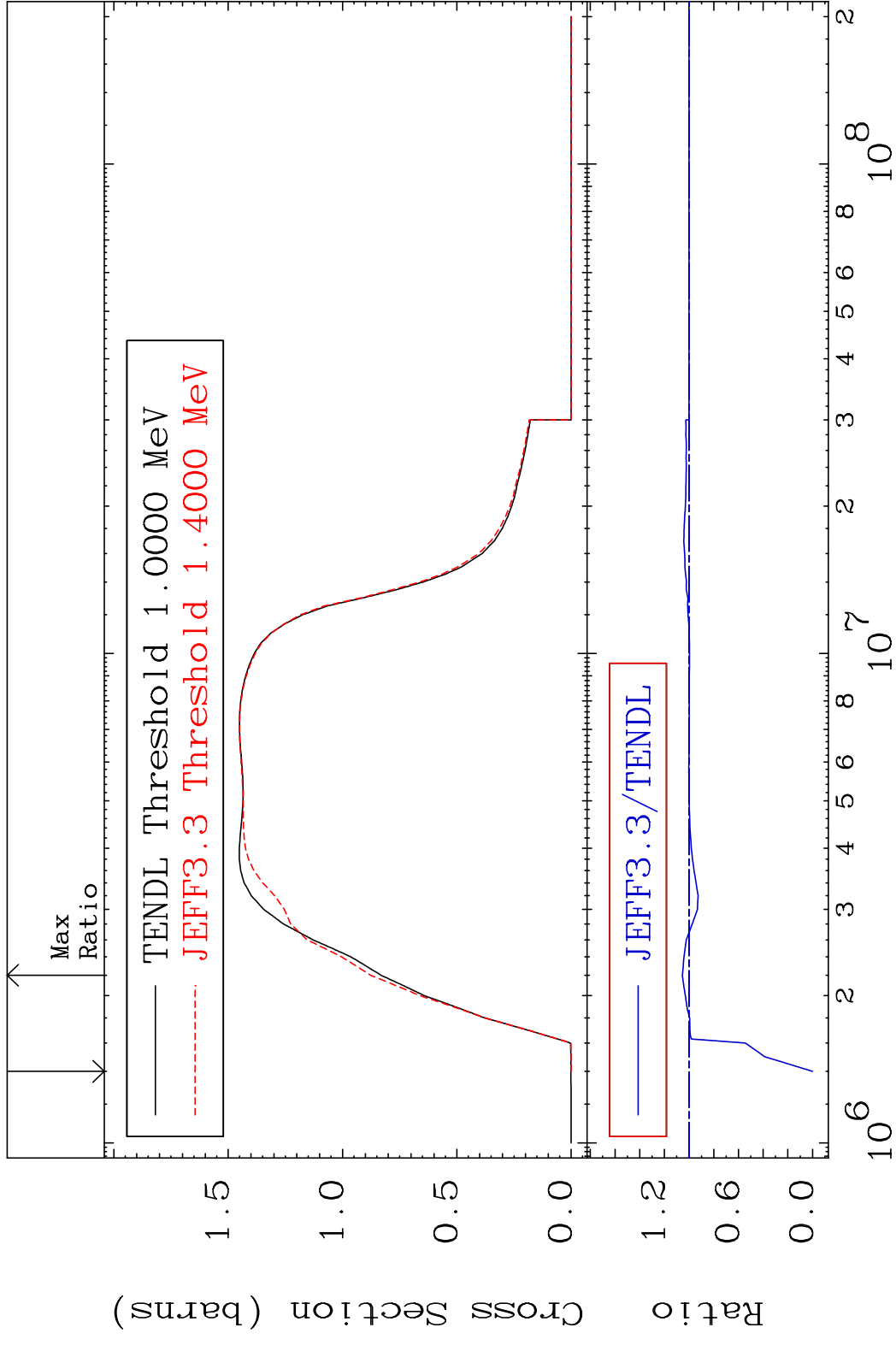
MAT 4119 (n, He-3):39-Y -89m1 41-Nb-91  
 Radionuclide Production Cross Section 10000 dno 9999. %



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

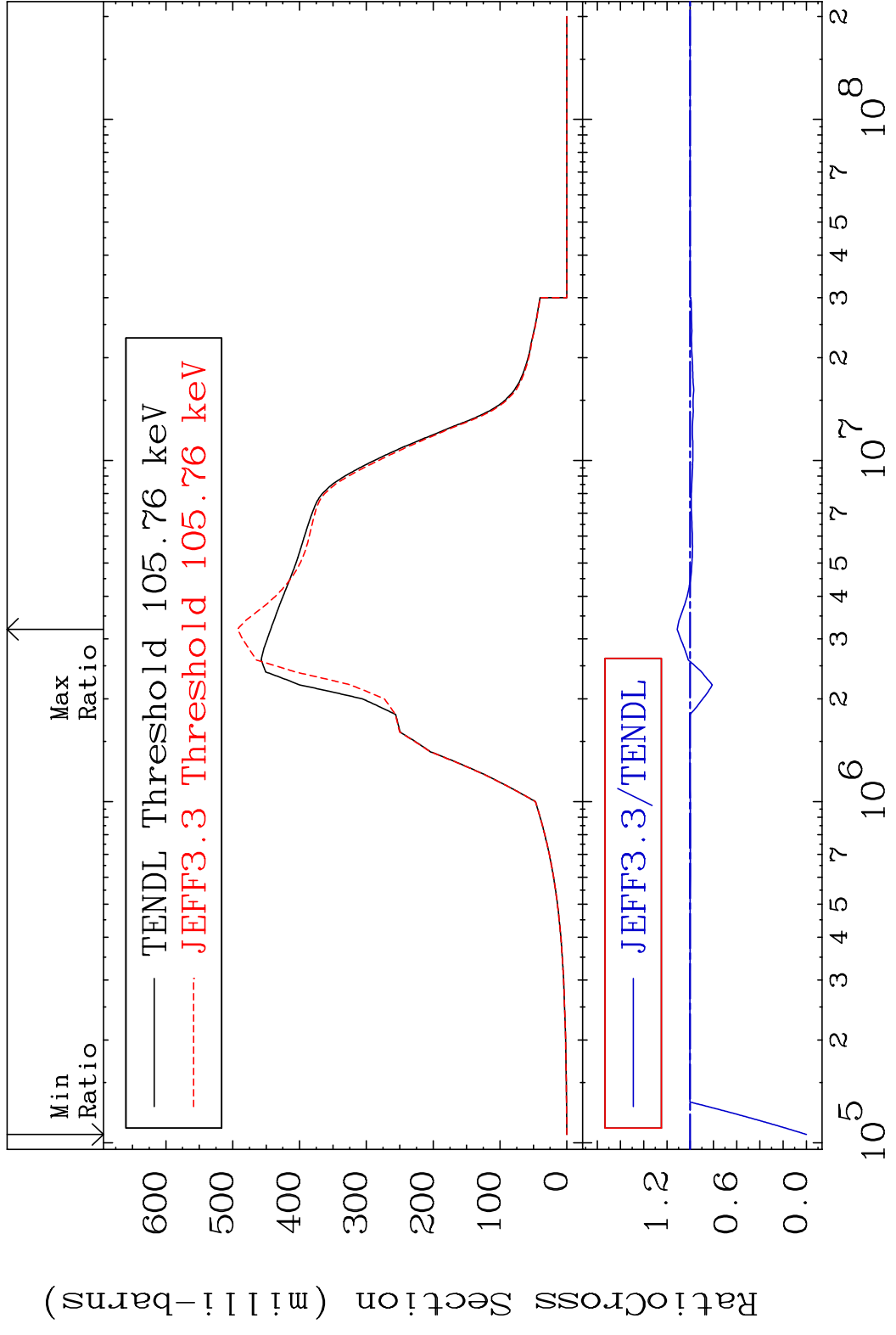


MAT 4119 Inelastic:41-Nb-91g 41-Nb-91  
 Radionuclide Production Cross Section 180.01 dpo 5.453 %



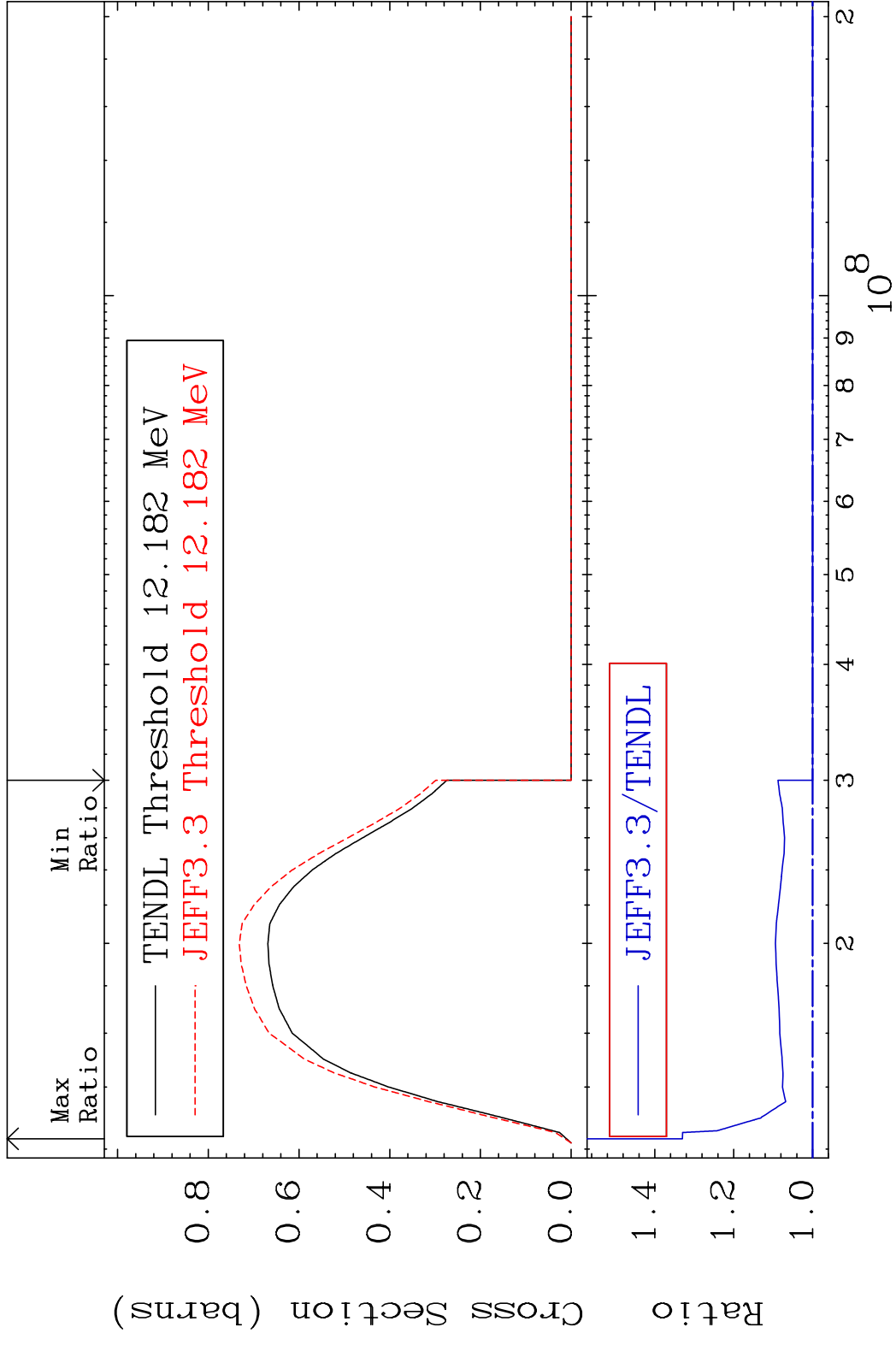
64 Incident Energy (eV) 41-Nb-91

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

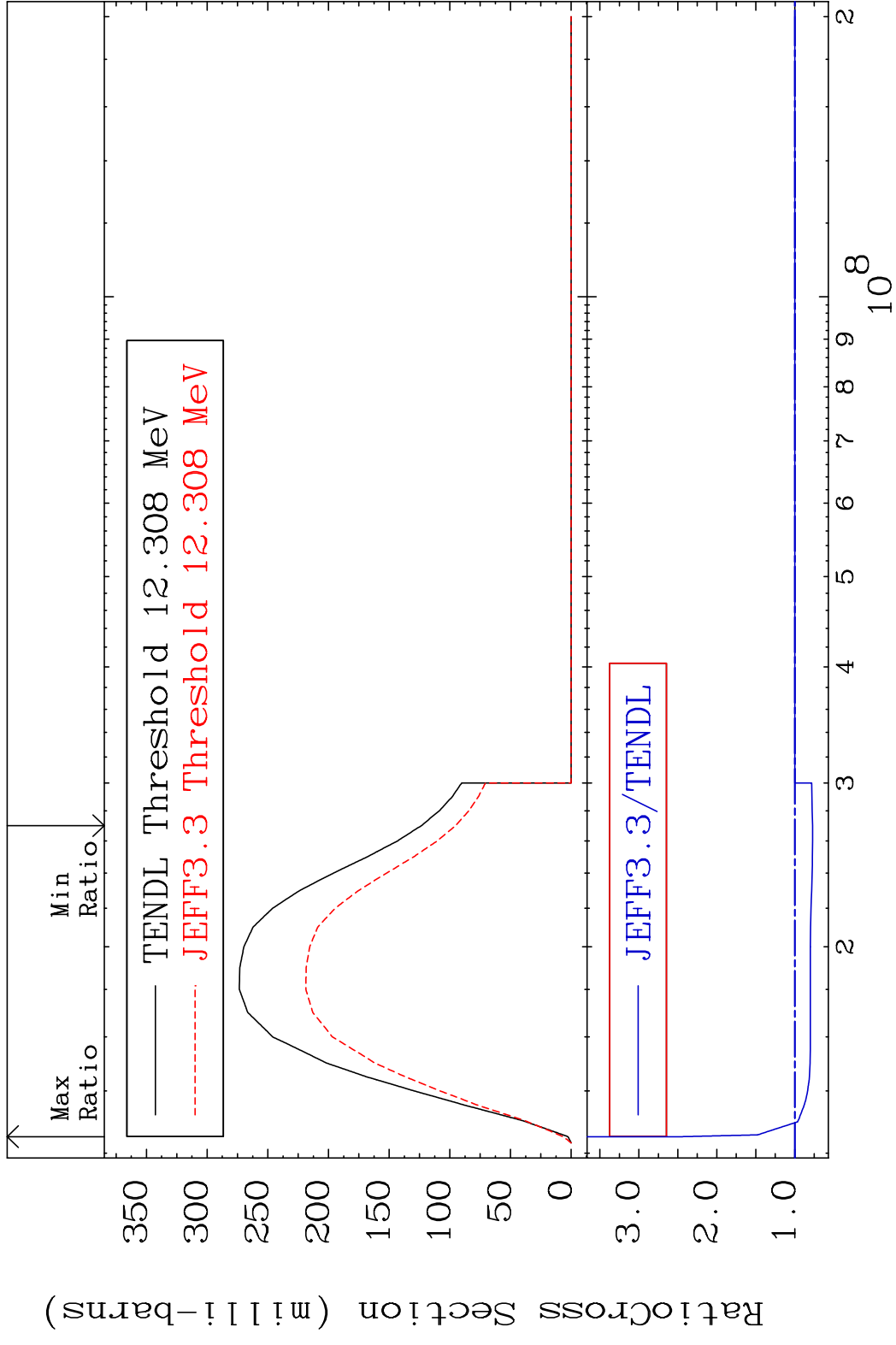


65 Incident Energy (eV) 41-Nb-91

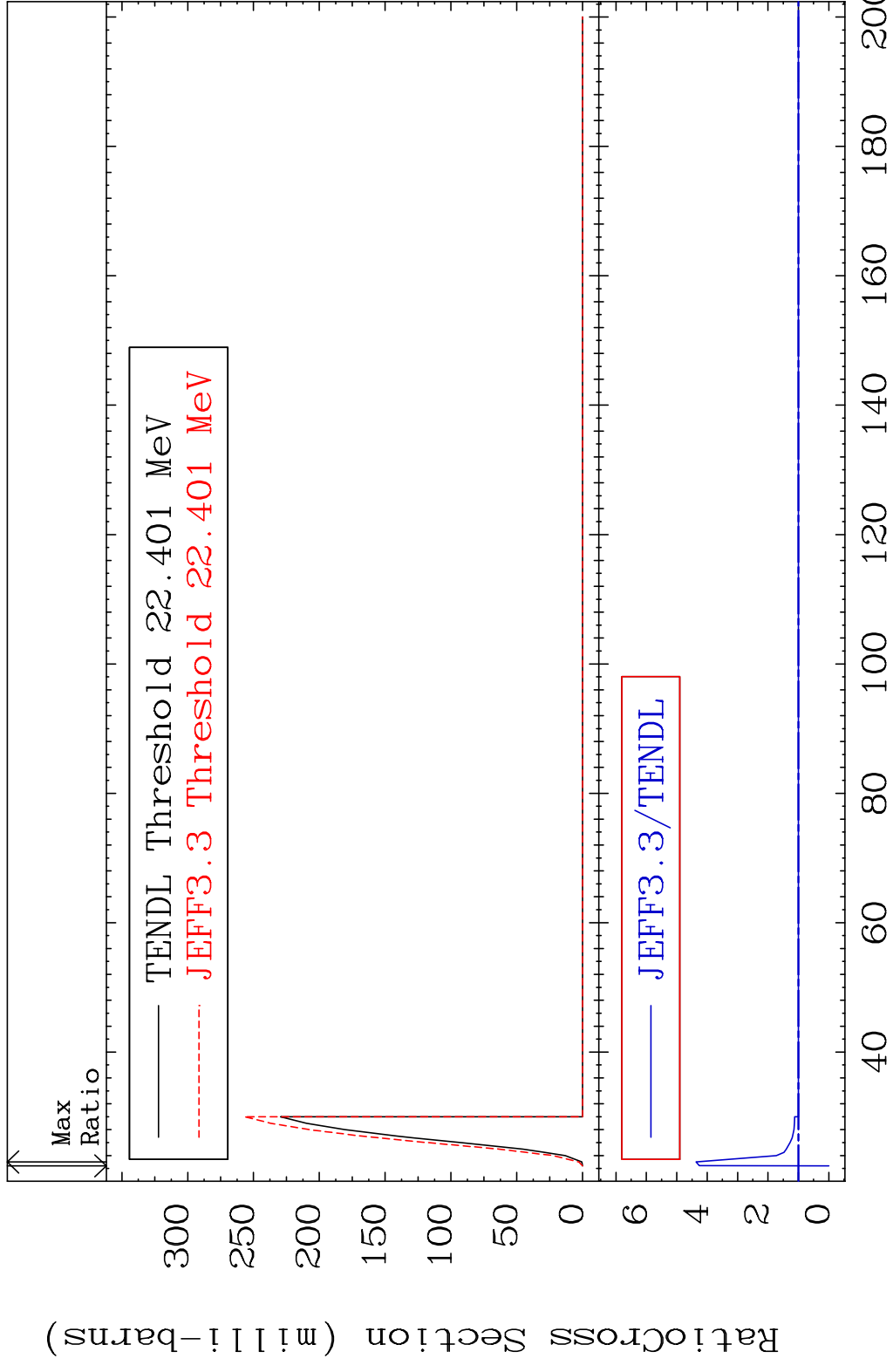
MAT 4119 (n,2n):41-Nb-90g 41-Nb-91  
 Radionuclide Production Cross Section 33.00 %



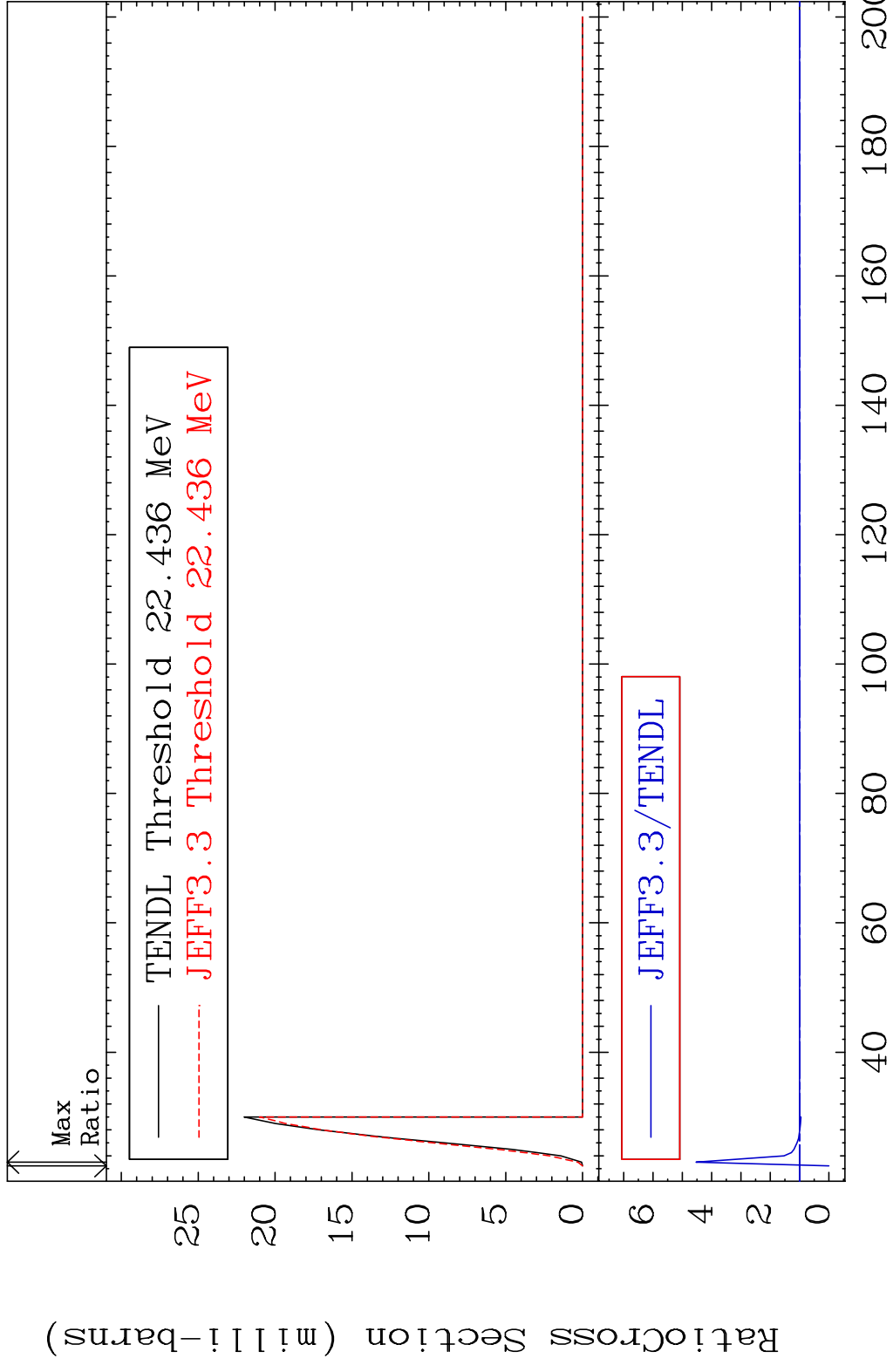
MAT 4119 (n,2n): 41-Nb-90m2 41-Nb-91  
 Radionuclide Production Cross Section 22.681 d10 144.2 %



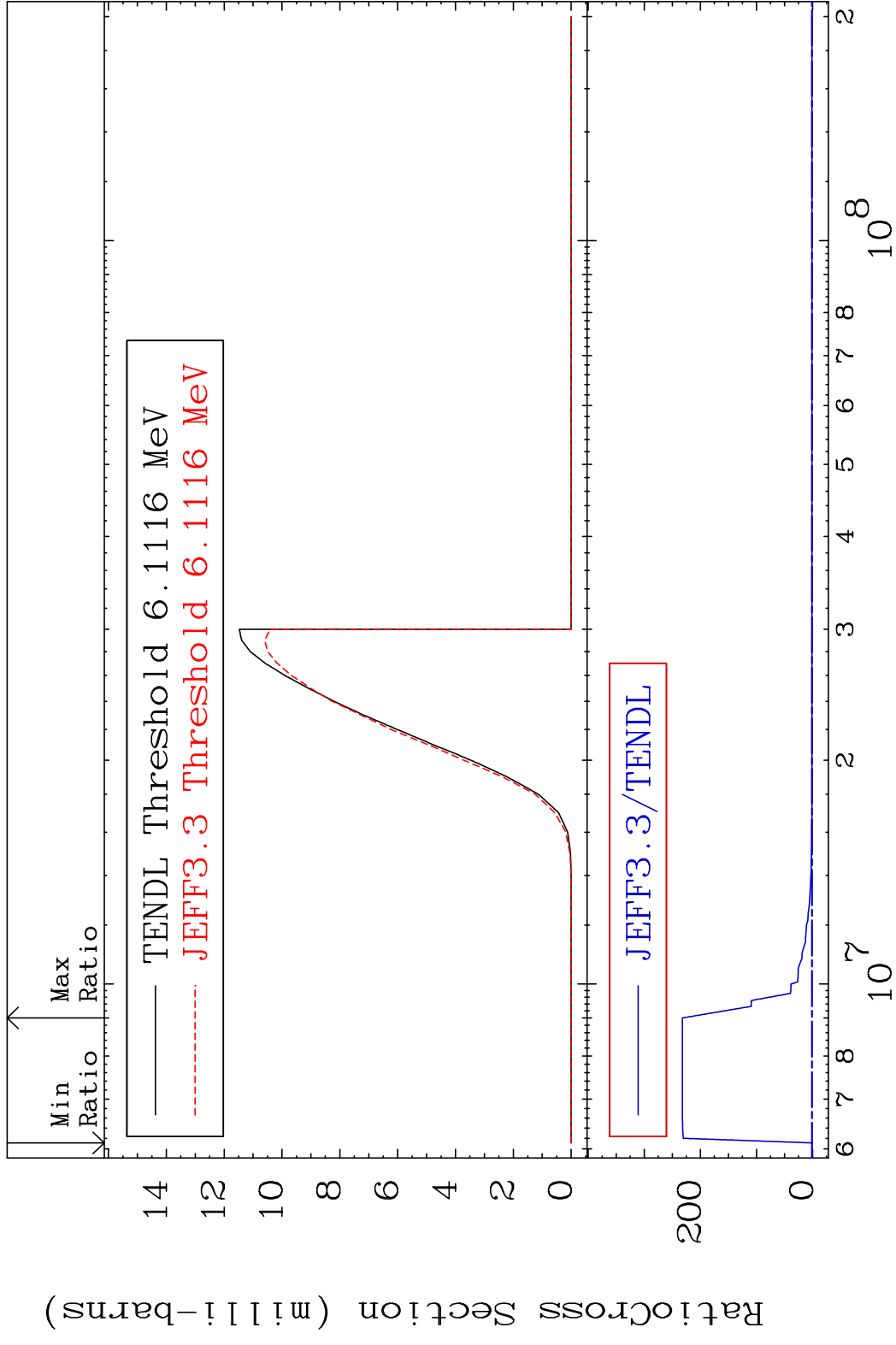
MAT 4119 (n,3n):41-Nb-89g 41-Nb-91  
 Radionuclide Production Cross Section 336.8 %



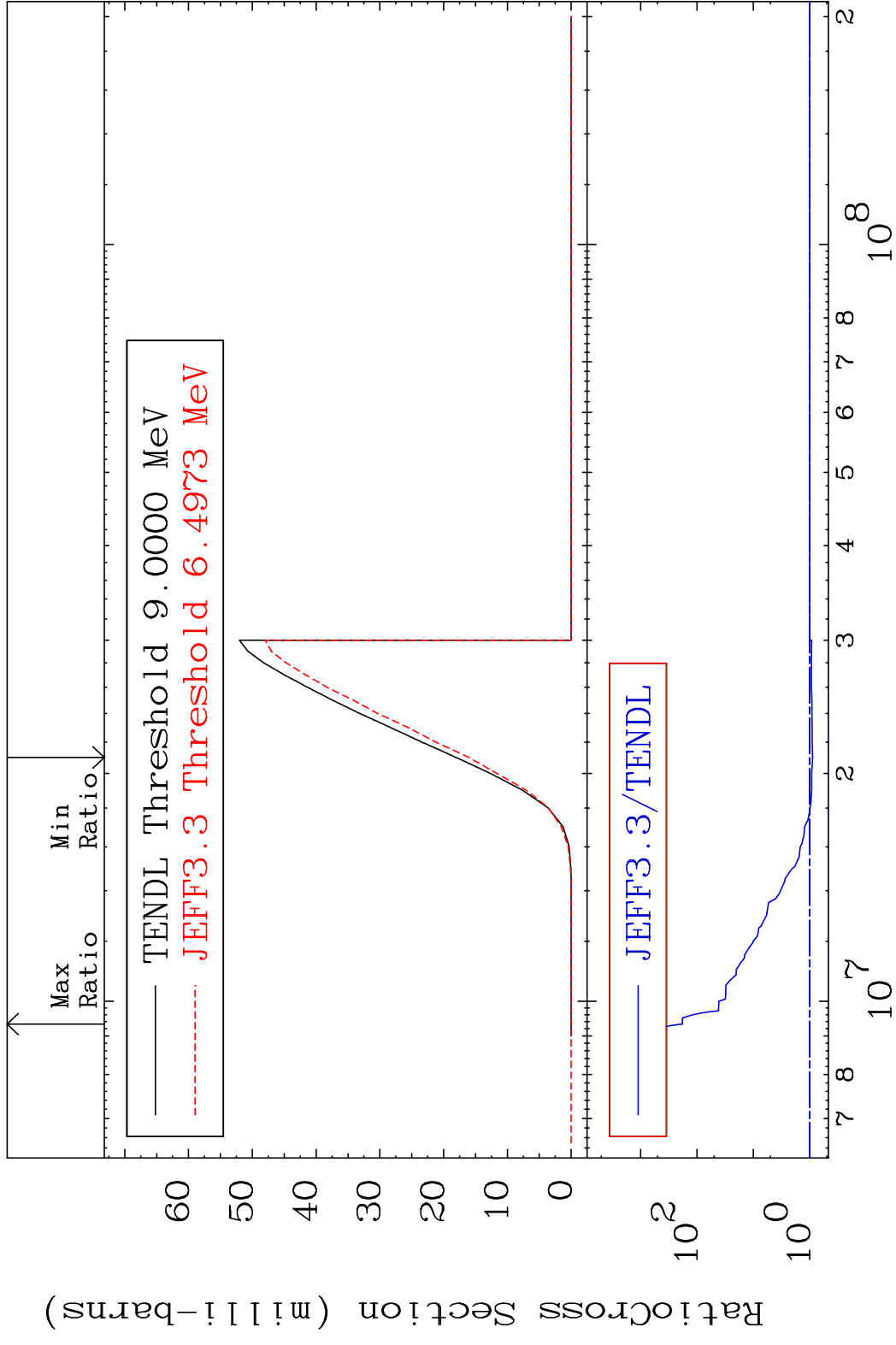
MAT 4119 (n,3n):41-Nb-89m1 41-Nb-91  
 Radionuclide Production Cross Section Ratio 353.2 %



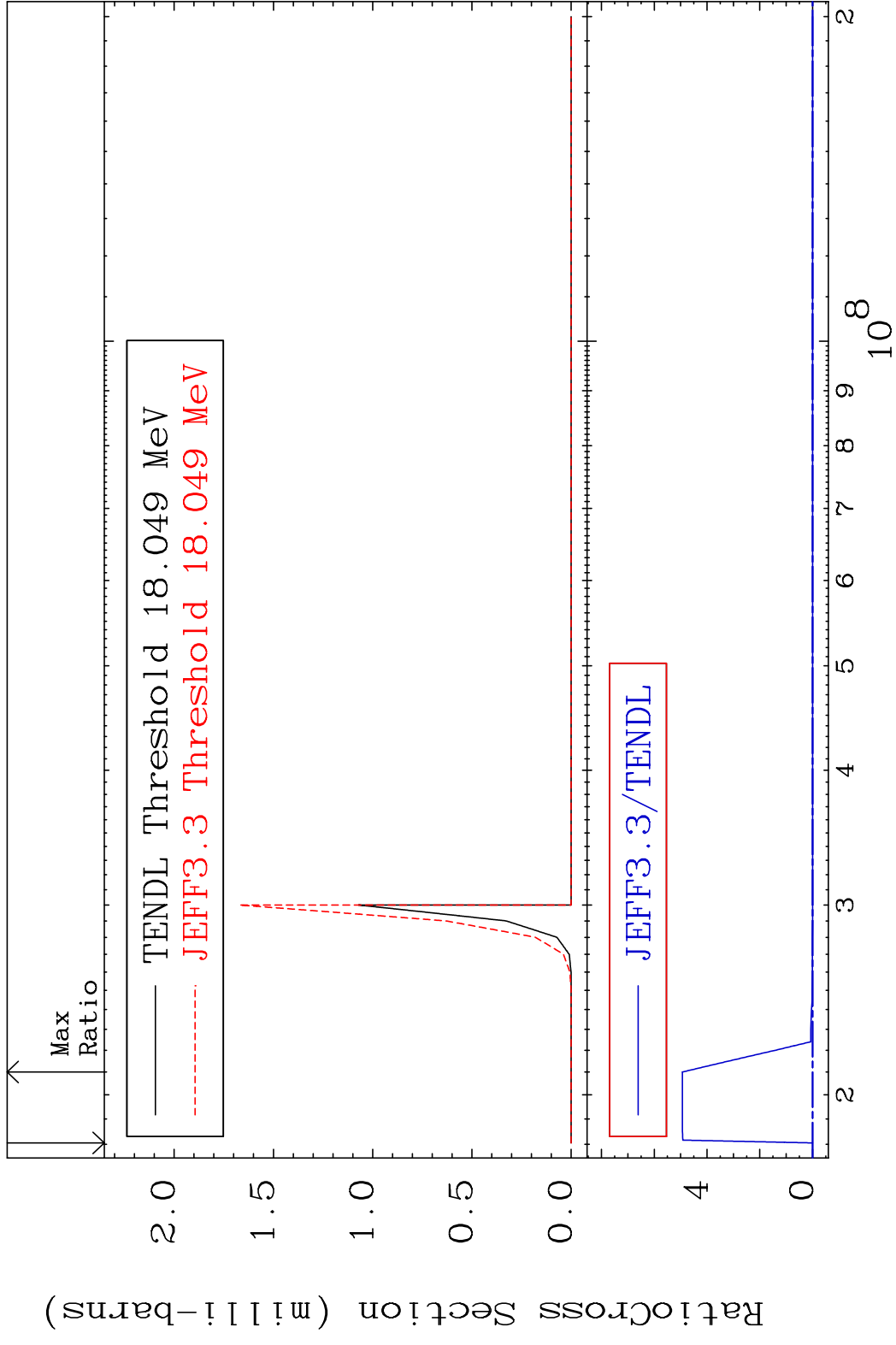
MAT 4119 (n, n')  $\alpha$ :39-Y -87g 41-Nb-91  
 Radionuclide Production Cross Section Ratio 9999. %

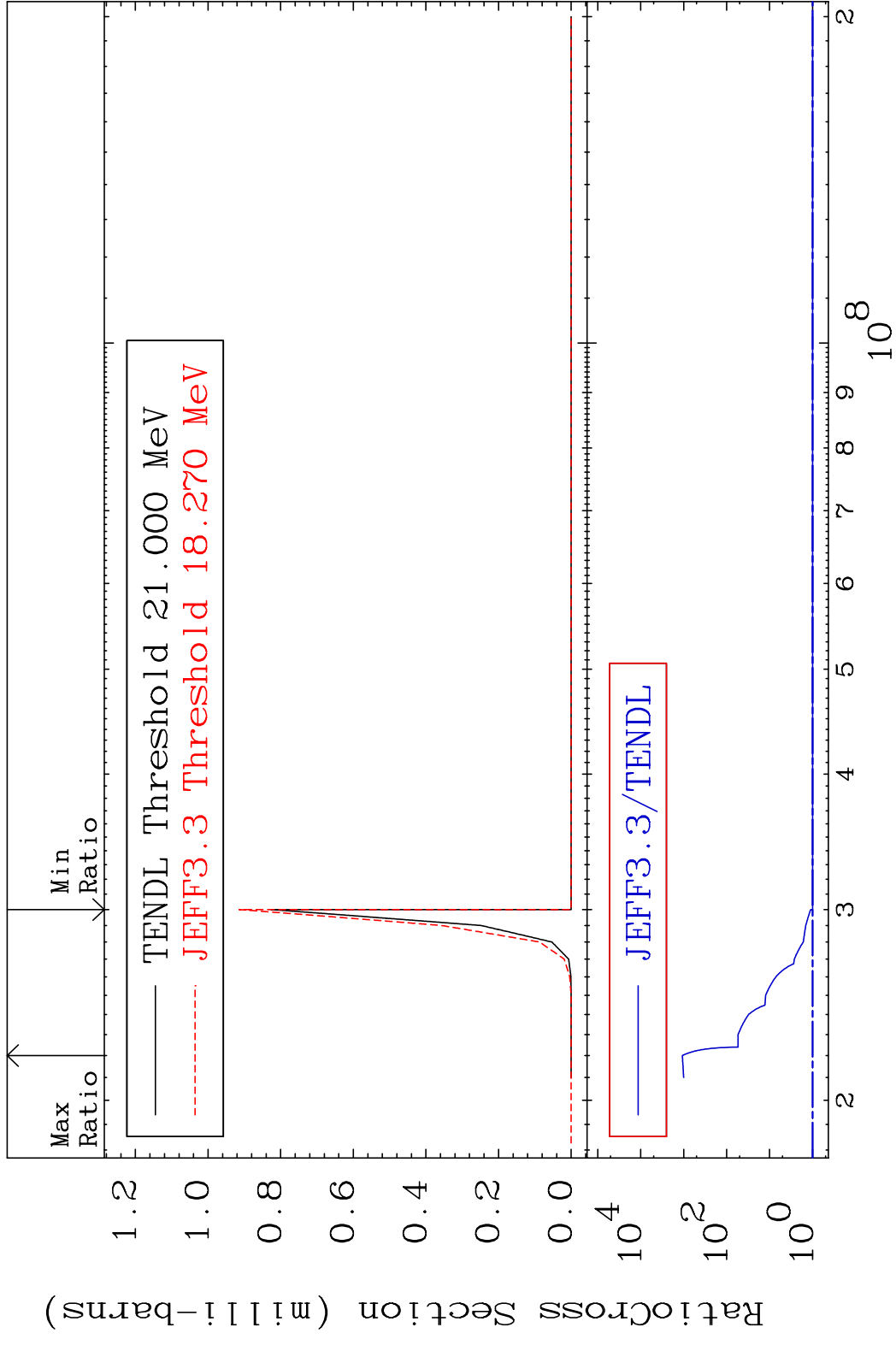


70 Incident Energy (eV) 41-Nb-91

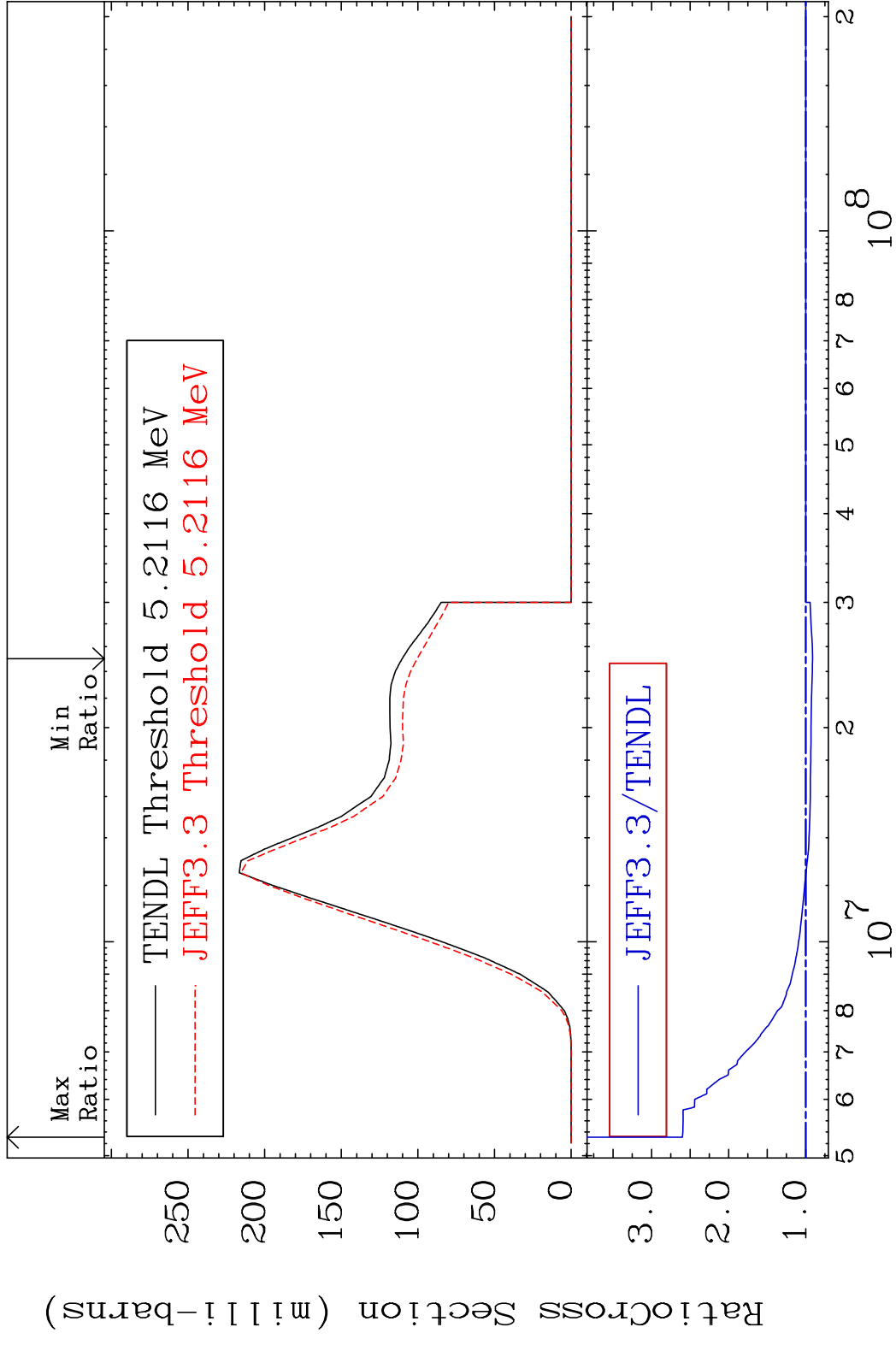


MAT 4119 (n,2n)  $\alpha$ :39-Y -86g 41-Nb-91  
 Radionuclide Production Cross Section 18.049 MeV 9999. %

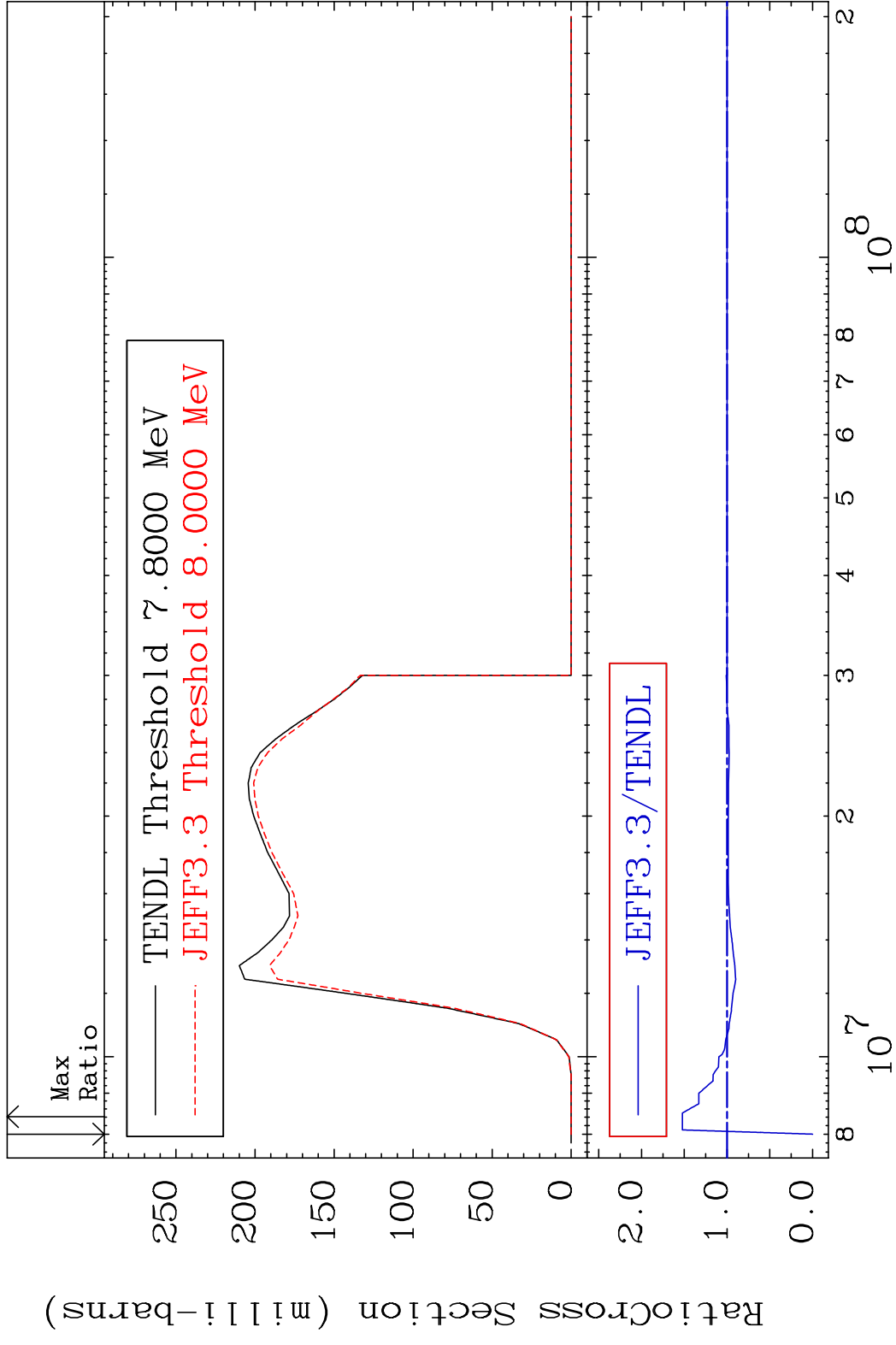




MAT 4119 (n, n') p:40-Zr-90g 41-Nb-91  
 Radionuclide Production Cross Section 160.0 %

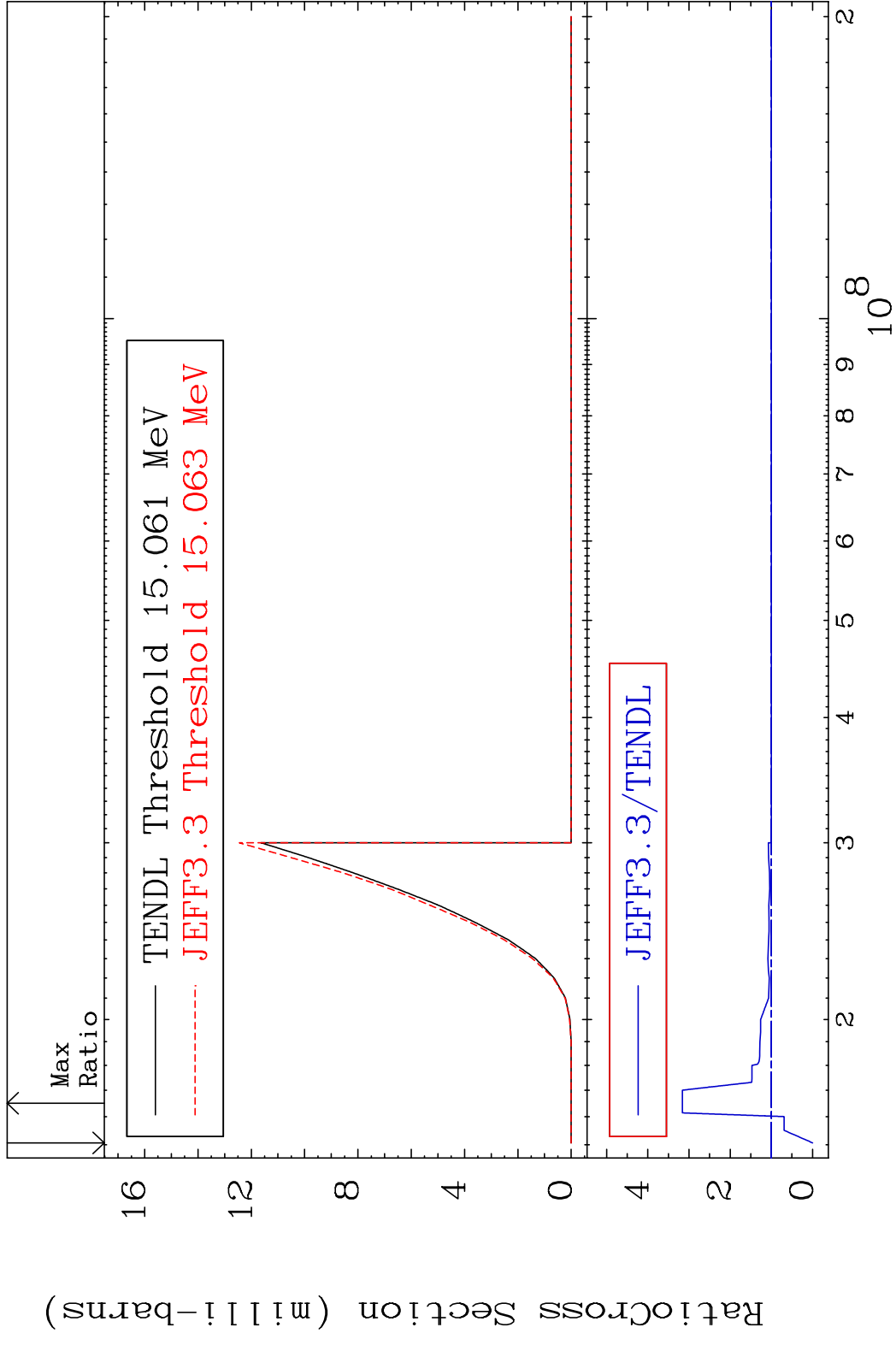


MAT 4119 (n, n') p:40-Zr-90m3 41-Nb-91  
 Radionuclide Production Cross Section 180.01 dth 52.25 %

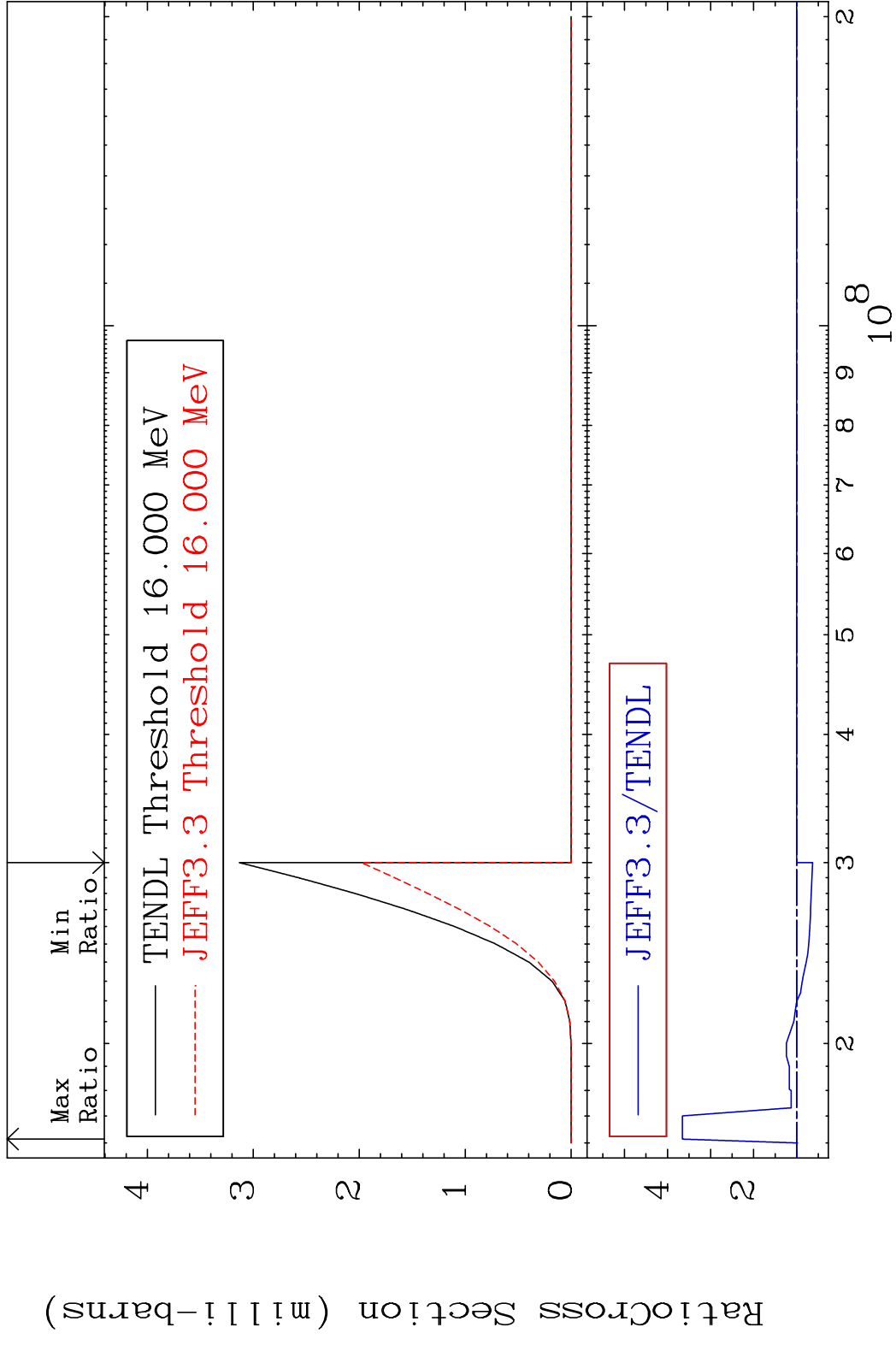


75 Incident Energy (eV) 41-Nb-91

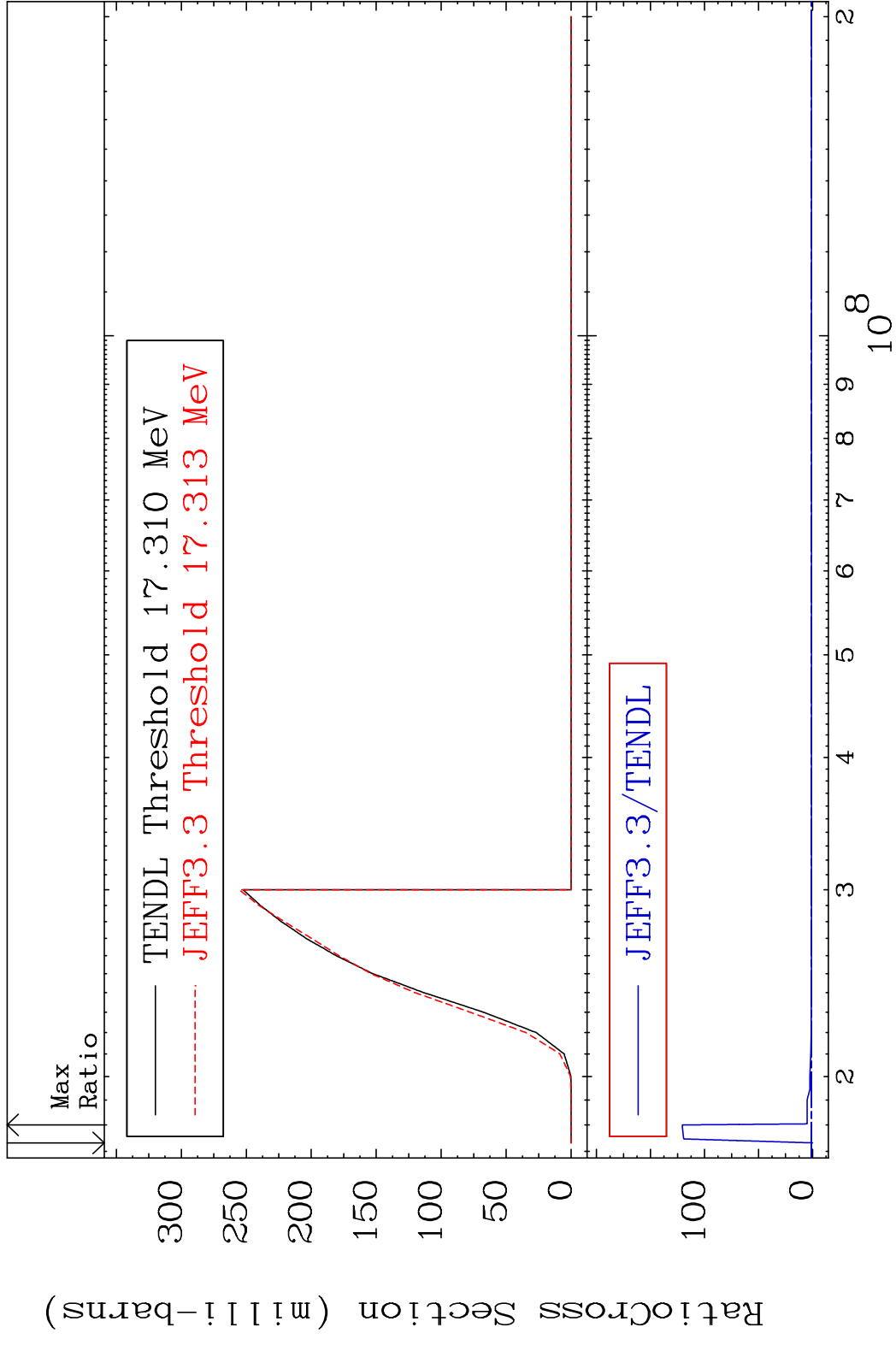
MAT 4119 (n, n') d:40-Zr-89g 41-Nb-91  
 Radionuclide Production Cross Section 180.01 dth 216.1 %

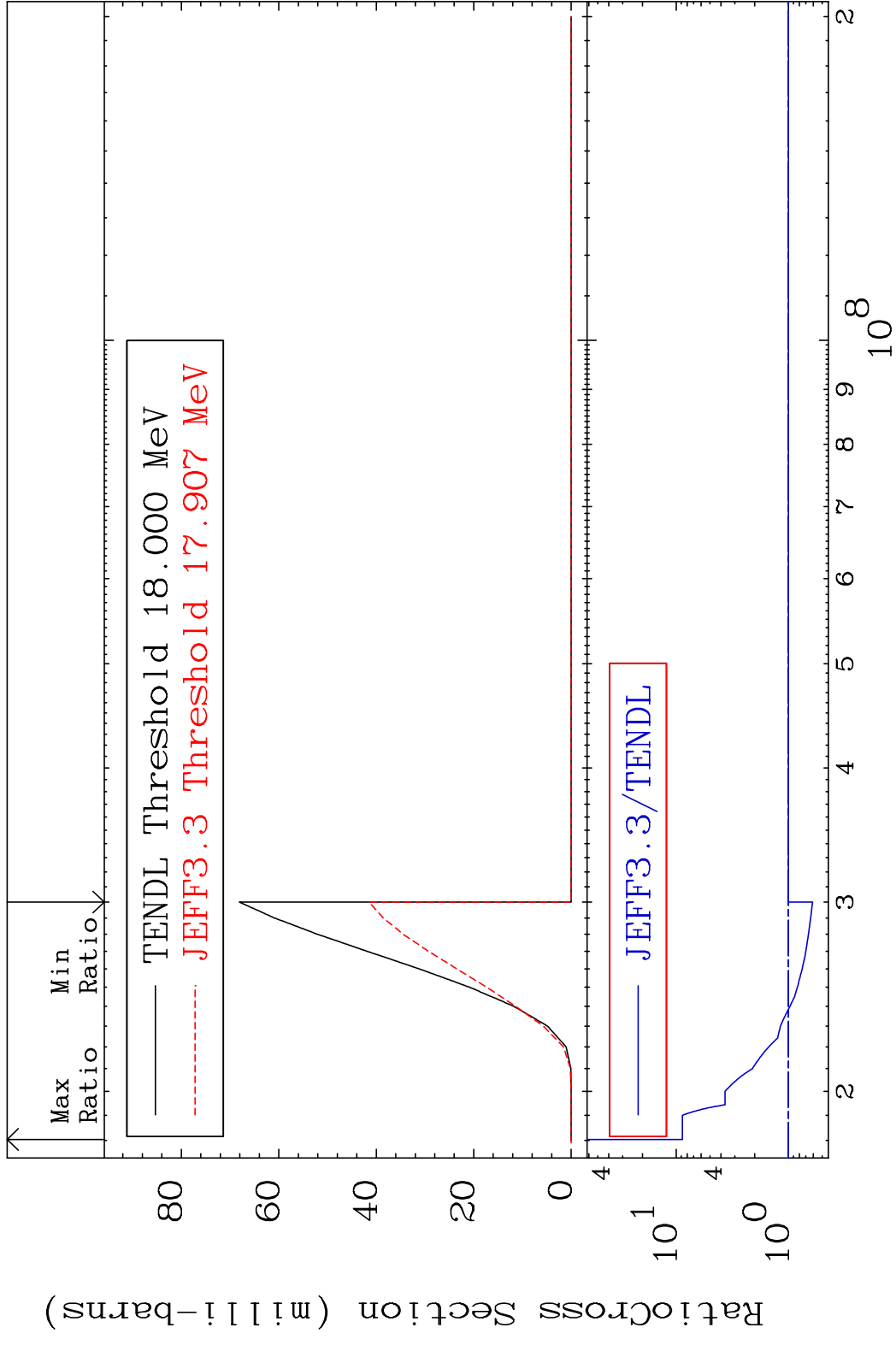


MAT 4119 (n, n') d:40-Zr-89m1 41-Nb-91  
 Radionuclide Production Cross Section 36.781 d10 265.5 %

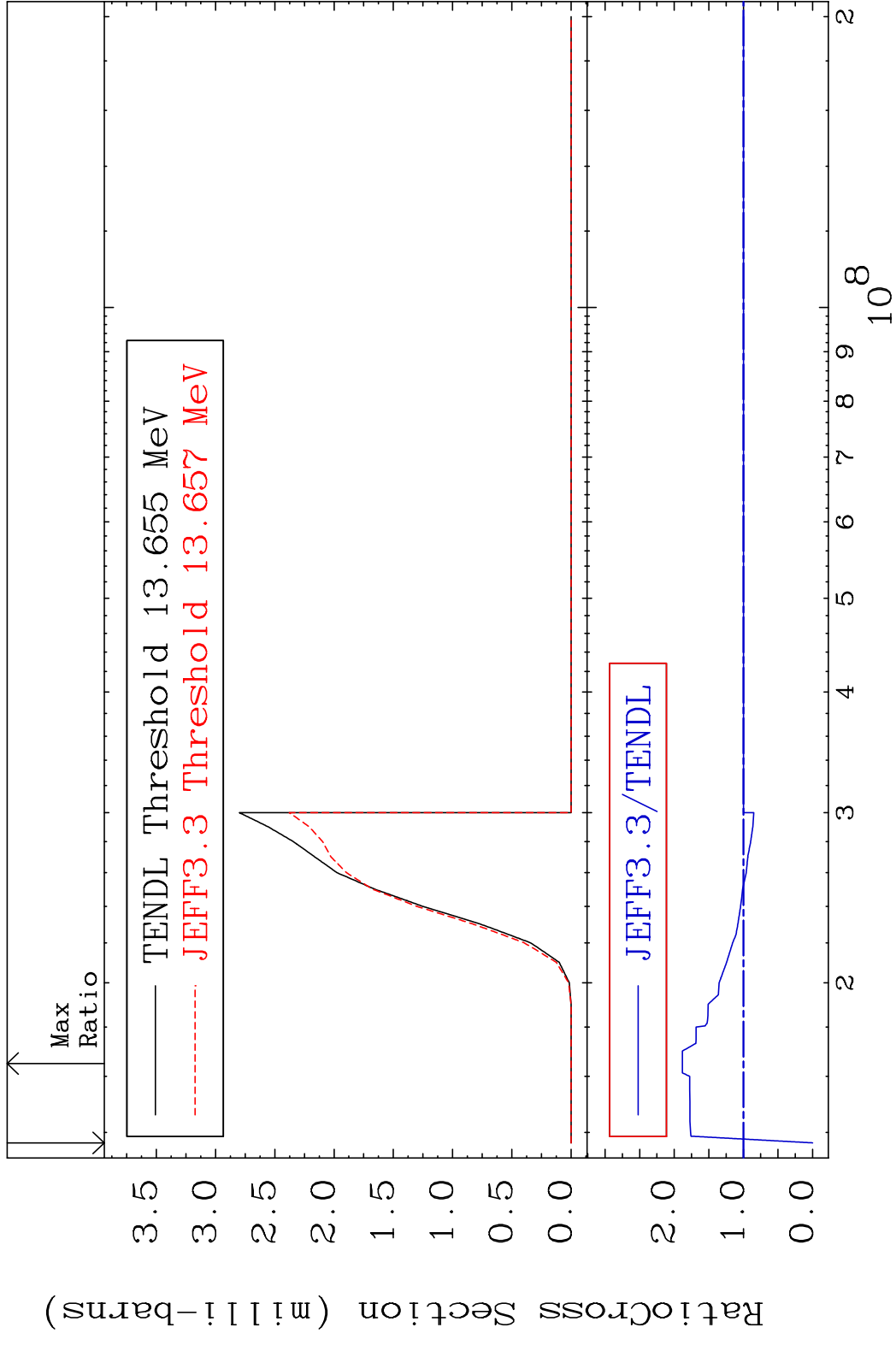


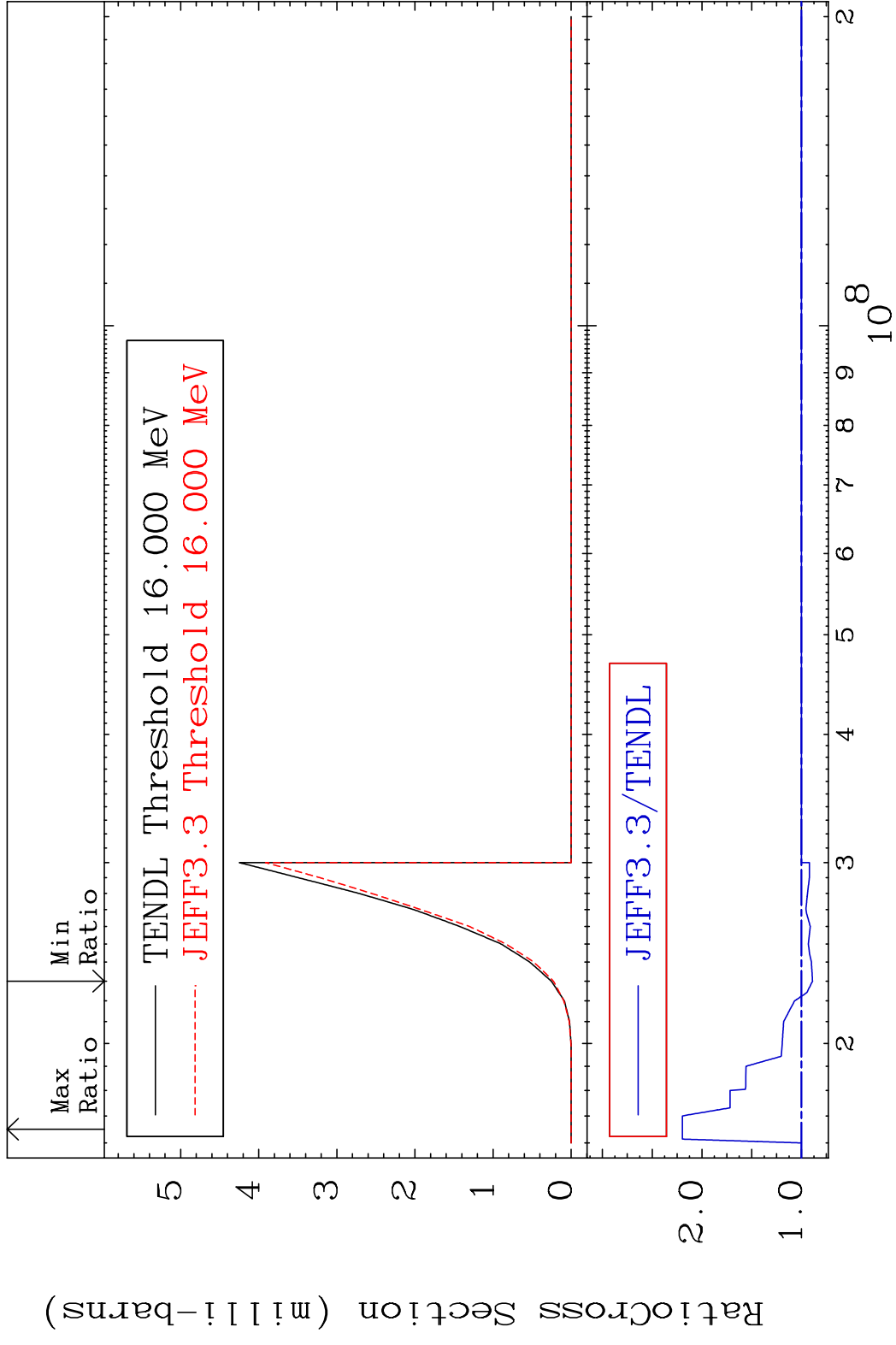
MAT 4119 (n,2n) p:40-Zr-89g 41-Nb-91  
 Radionuclide Production Cross Section 100.00 to 9999.00 %

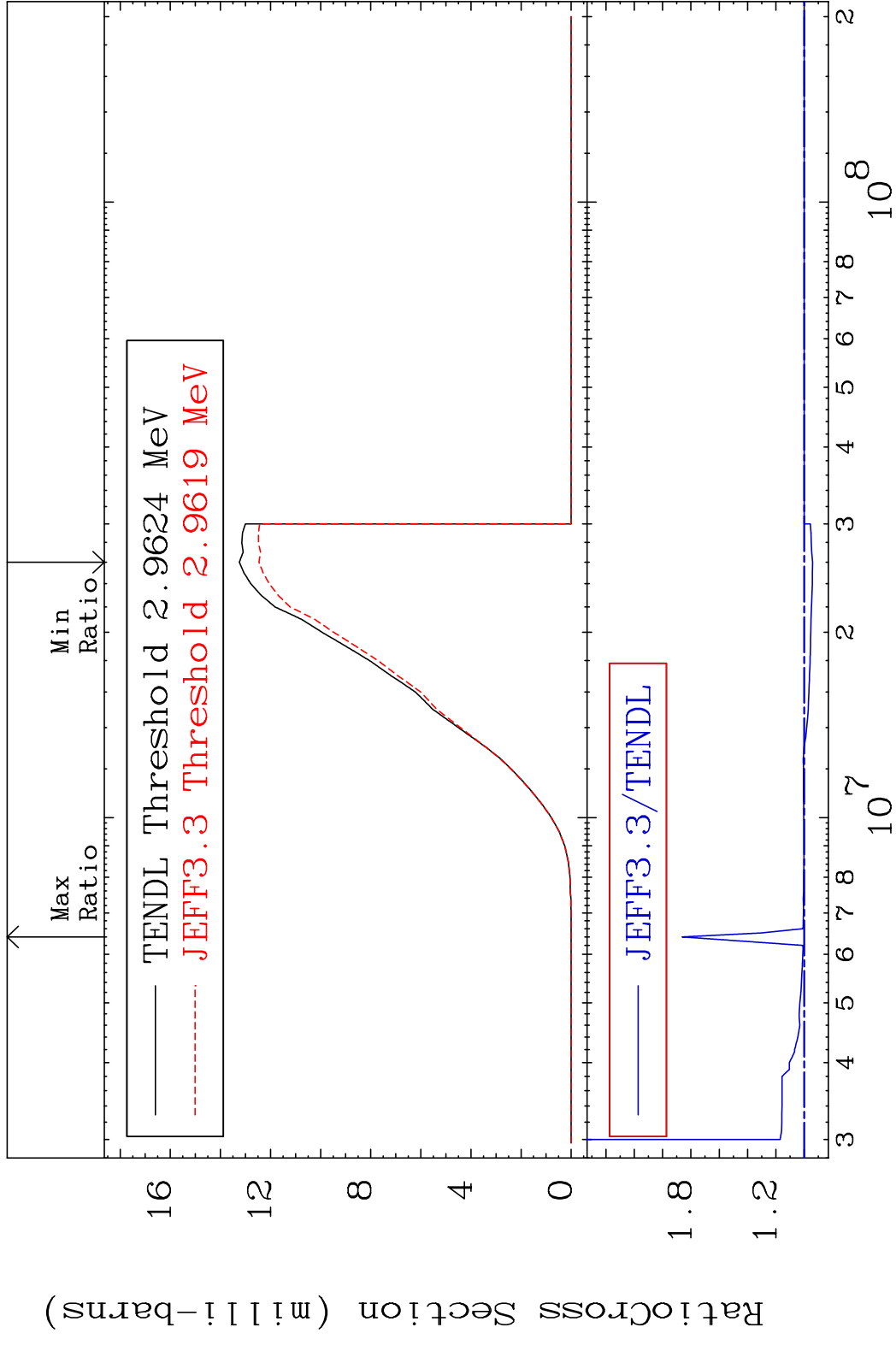




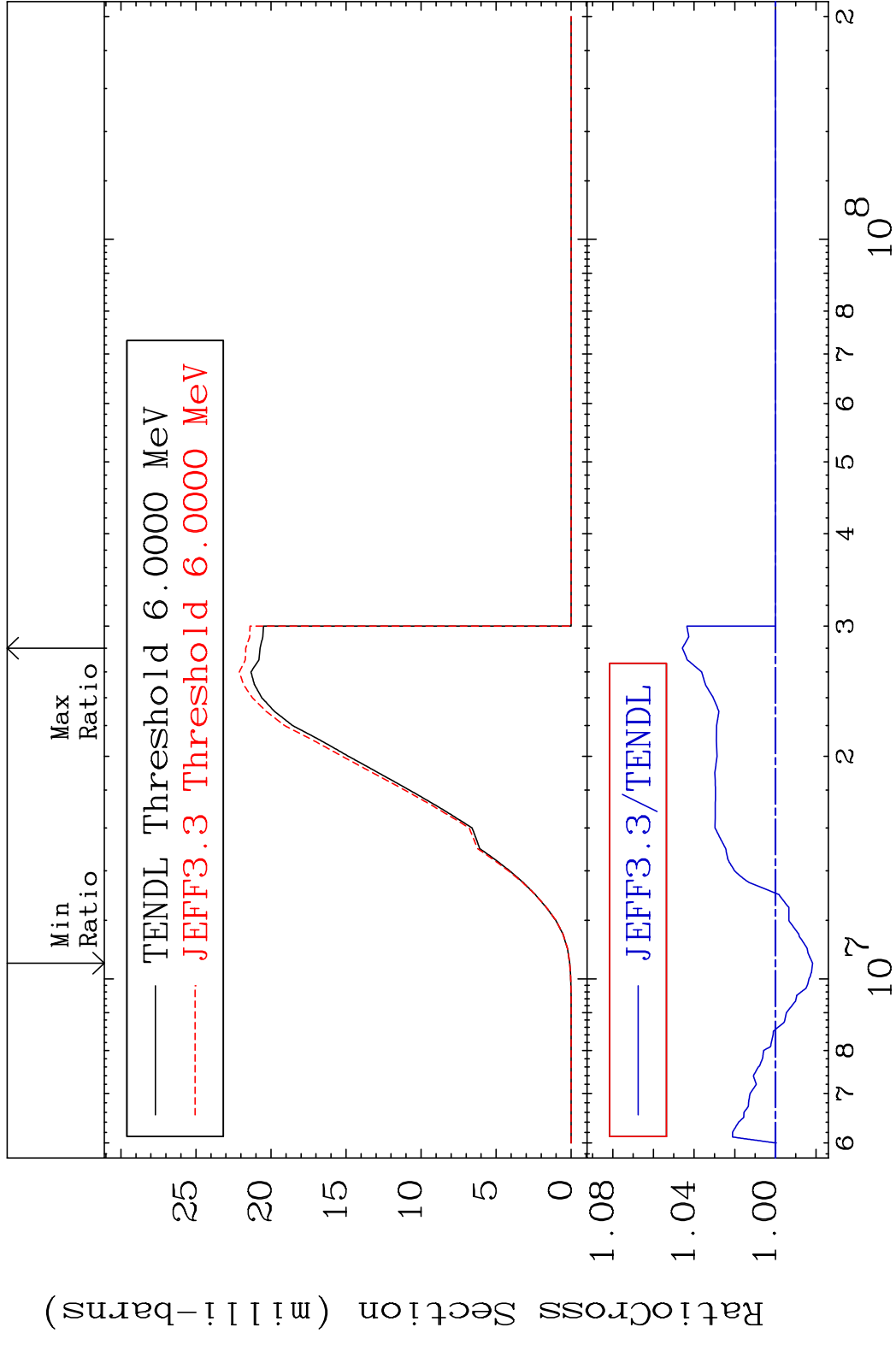
MAT 4119 (n,2n) p:39-Y -89g 41-Nb-91  
 Radionuclide Production Cross Section 180.01 dth 88.26 %



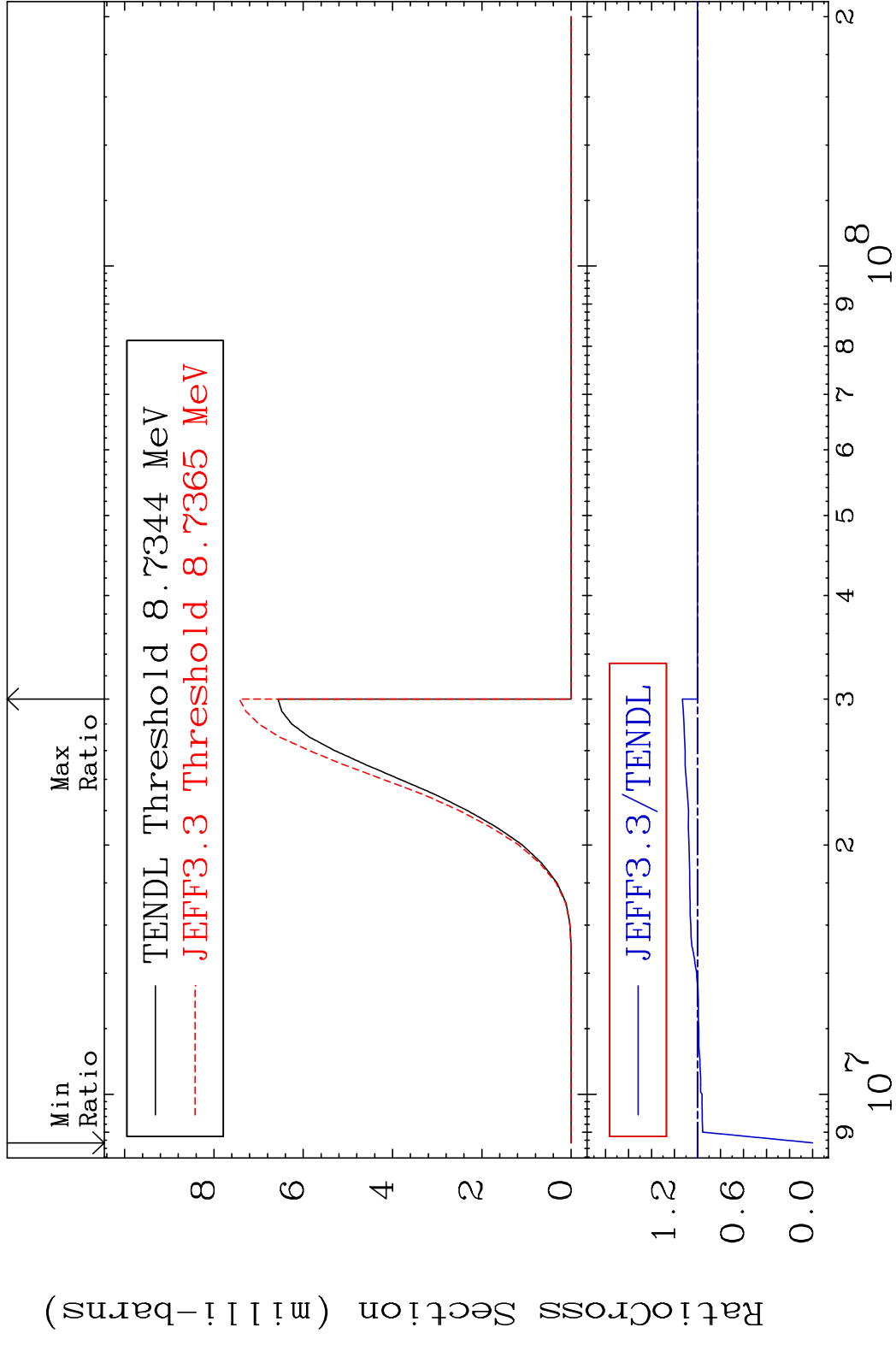




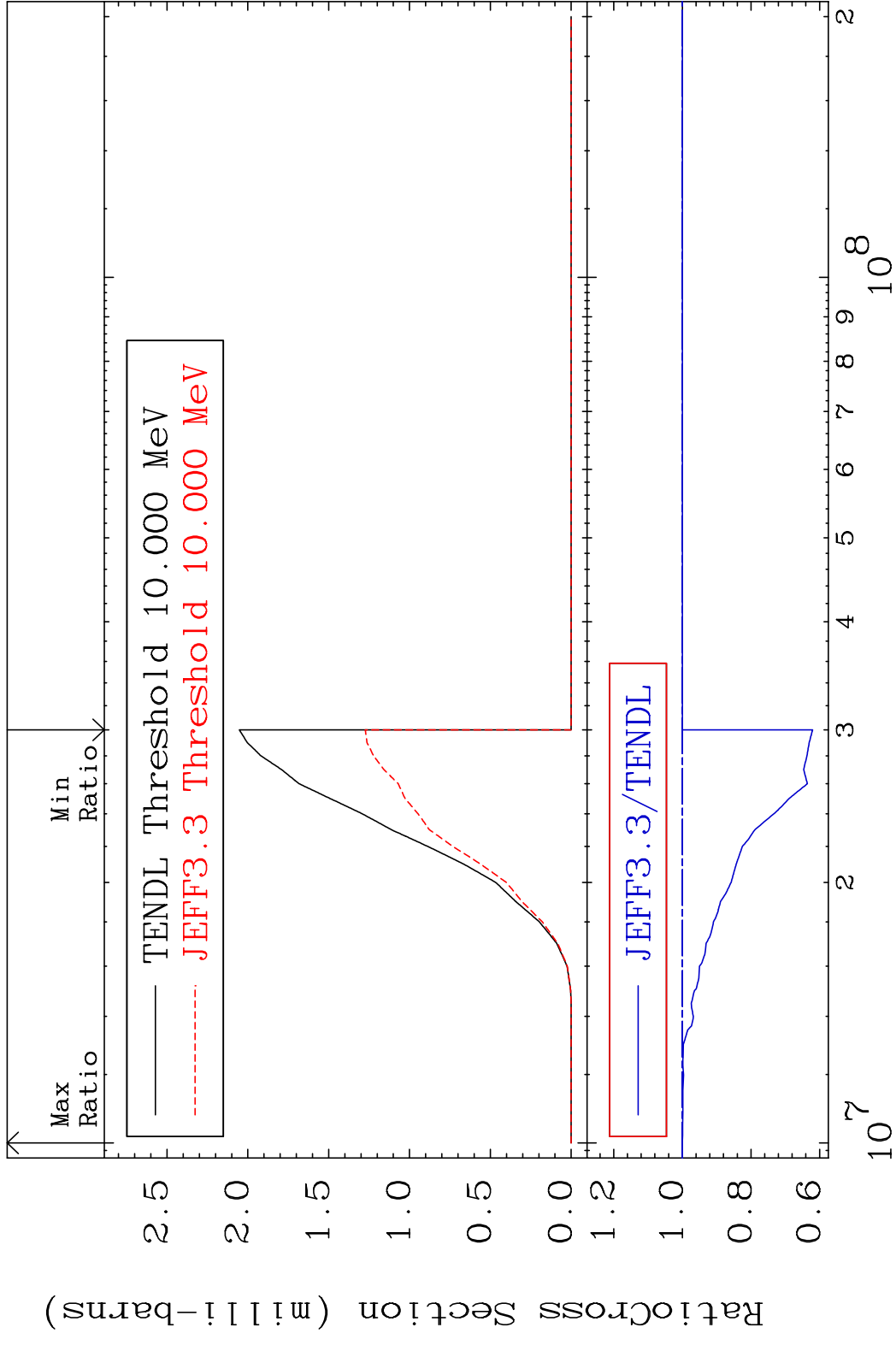
MAT 4119 (n, d) : 40-Zr-90m3 41-Nb-91  
 Radionuclide Production Cross Section 1.82611e-06 4.579 %



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

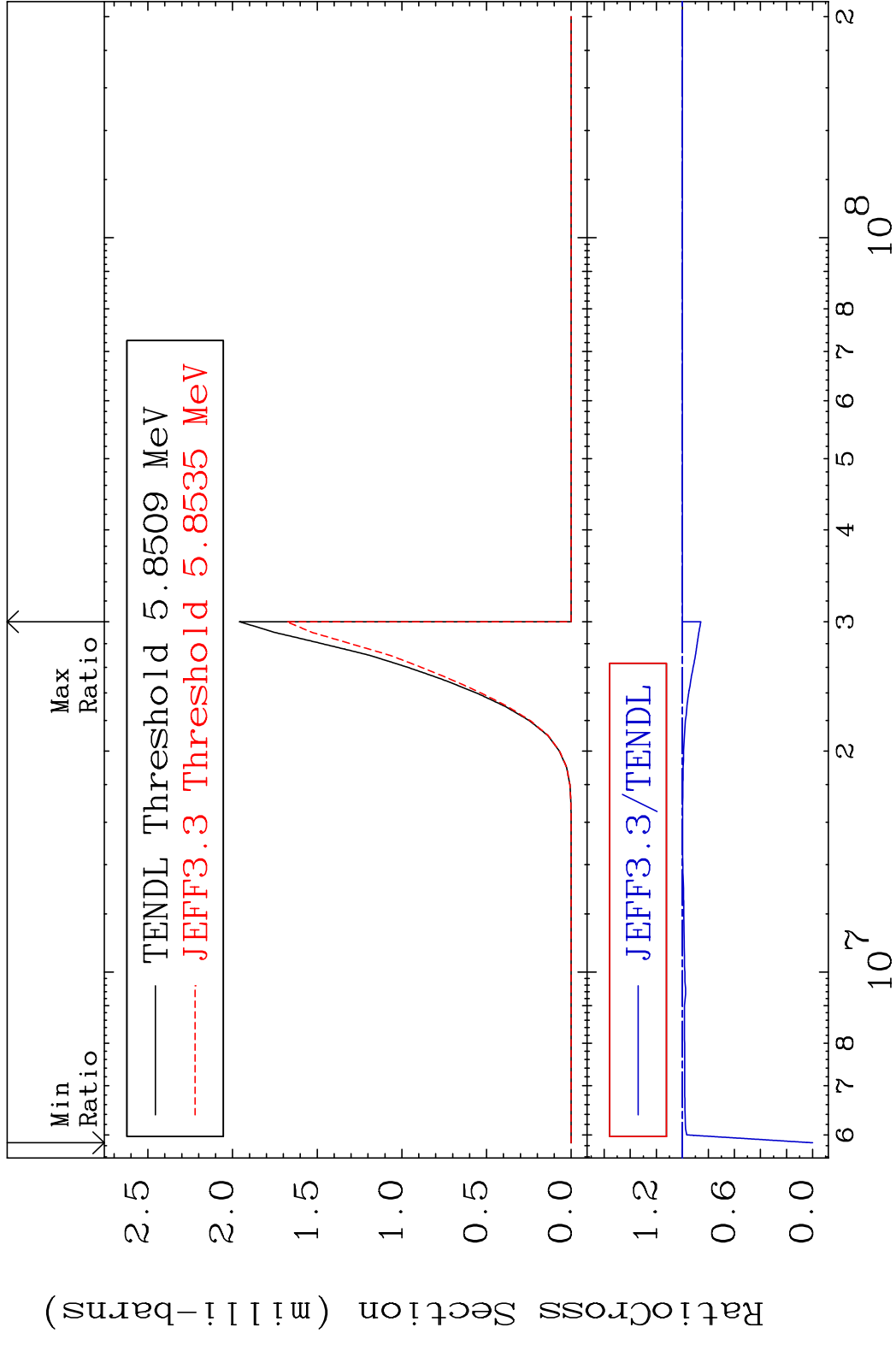


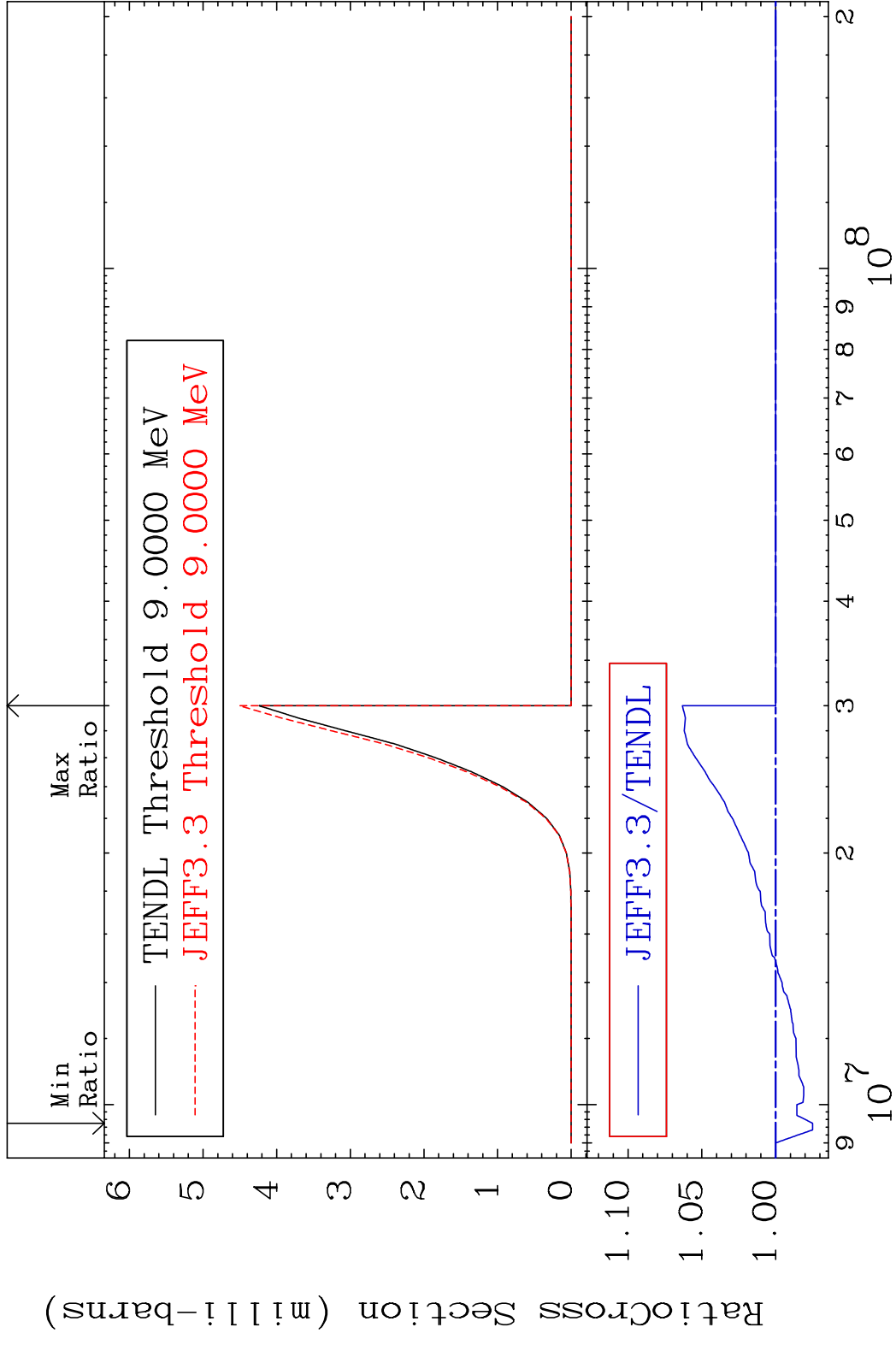
MAT 4119 (n, t): 40-Zr-89m1 41-Nb-91  
 Radionuclide Production Cross Section 3565 dth 0.000 %



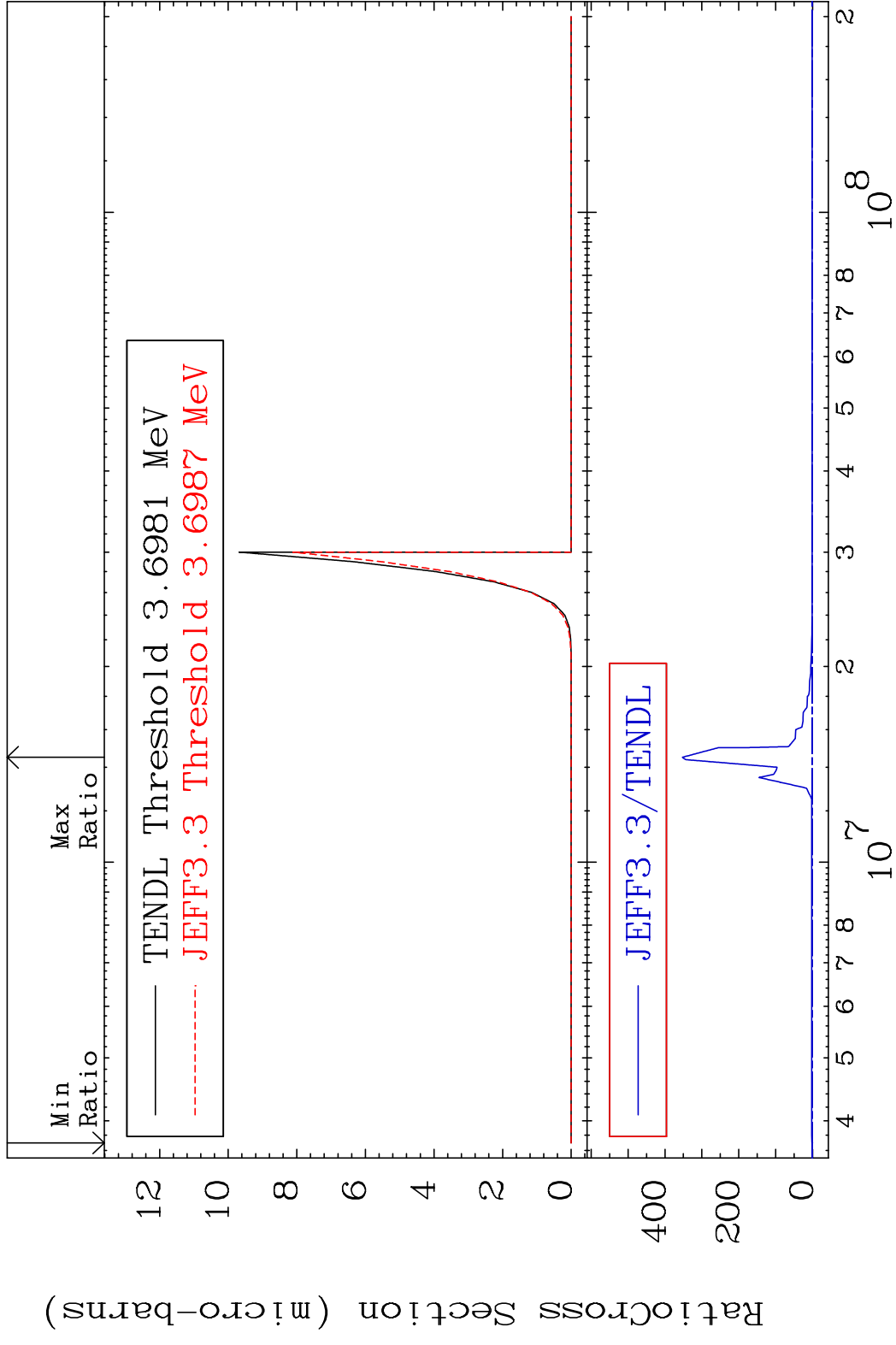
85 Incident Energy (eV) 41-Nb-91

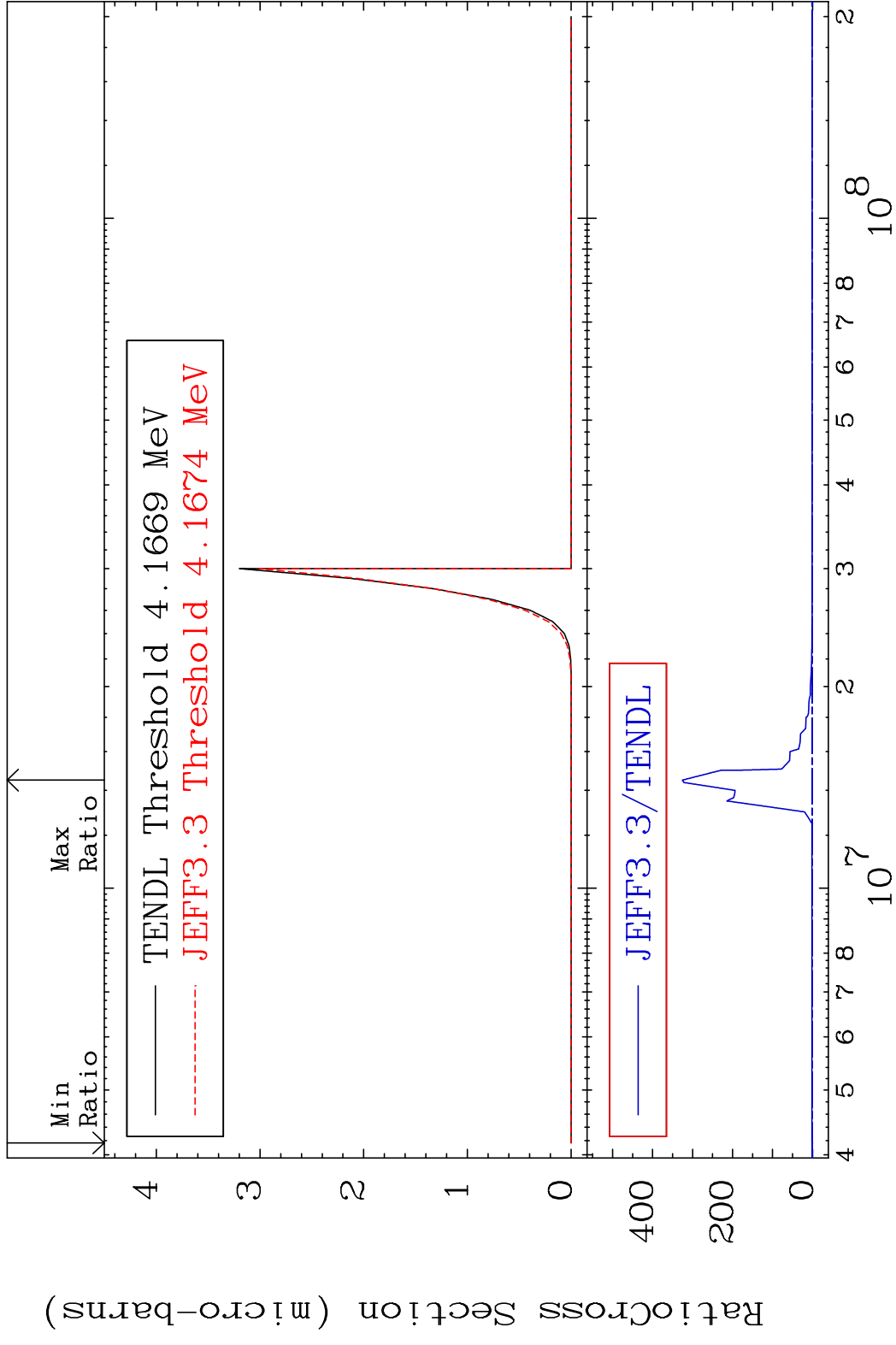
MAT 4119 (n, He-3):39-Y -89g 41-Nb-91  
 Radionuclide Production Cross Section Ratio 0.000 %



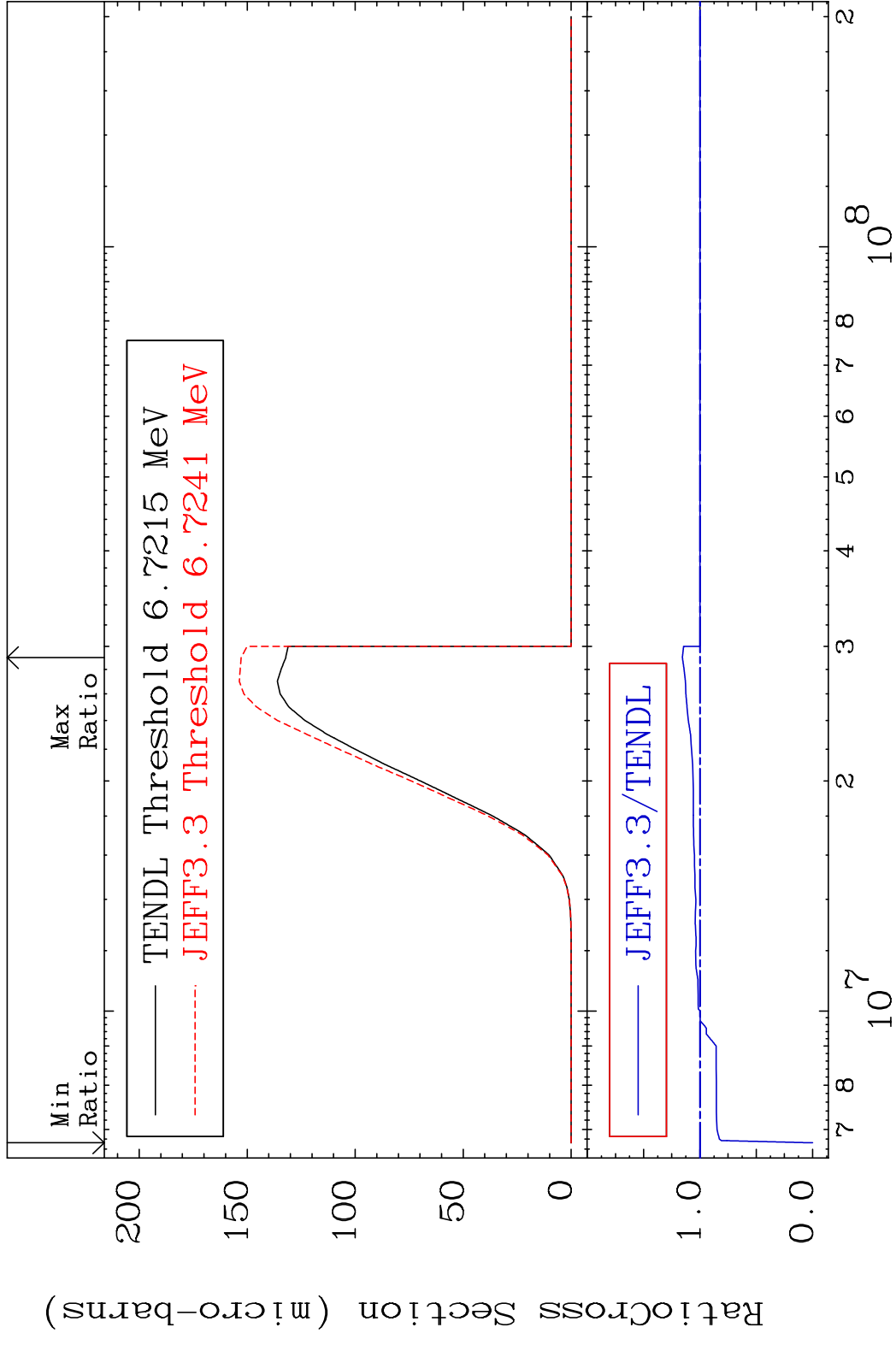


MAT 4119 (n,2α):37-Rb-84g 41-Nb-91  
 Radionuclide Production Cross Section (%) 9999. %



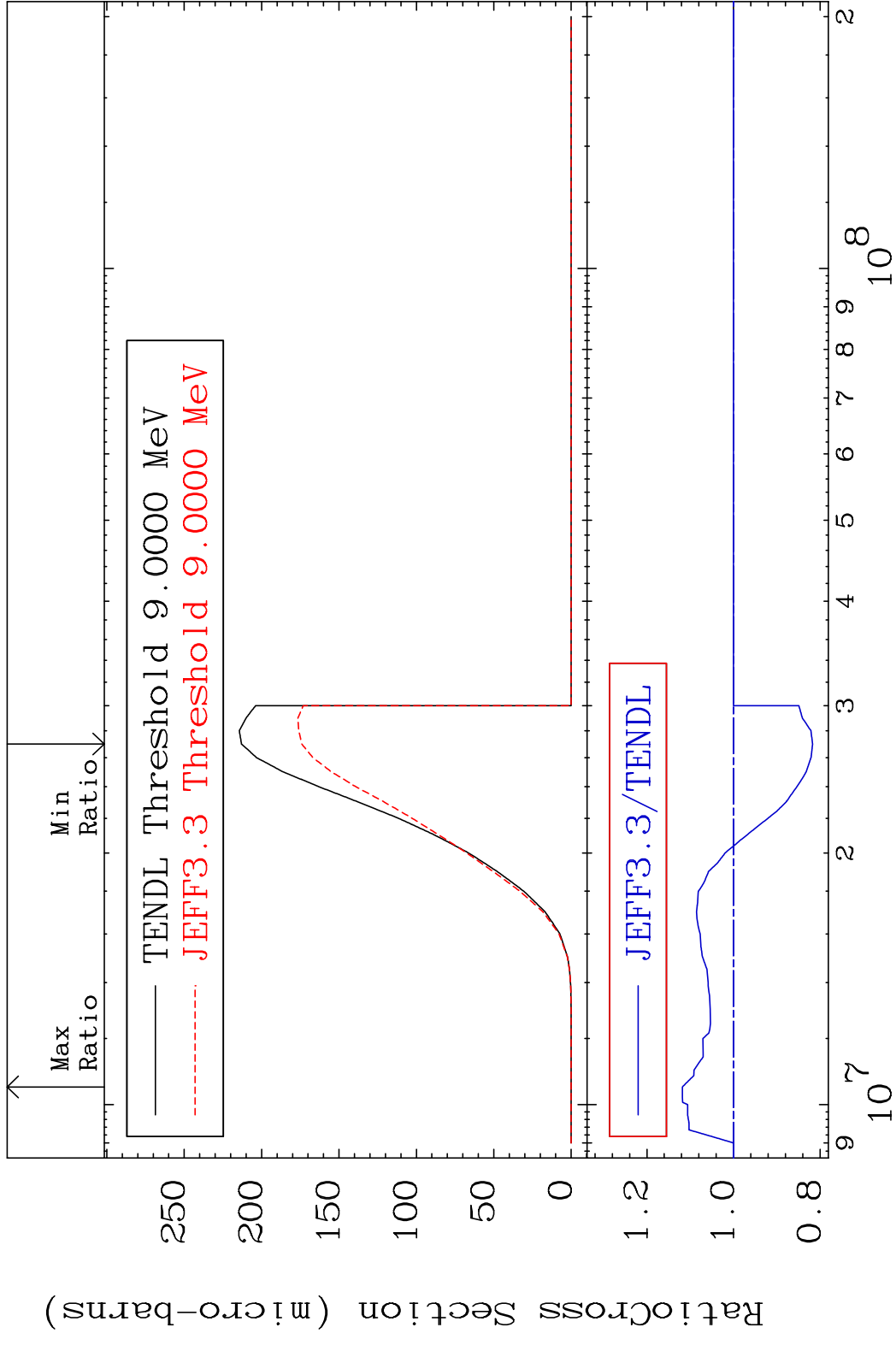


MAT 4119 (n,2p):39-Y -90g 41-Nb-91  
 Radionuclide Production Cross Section 15.61 %



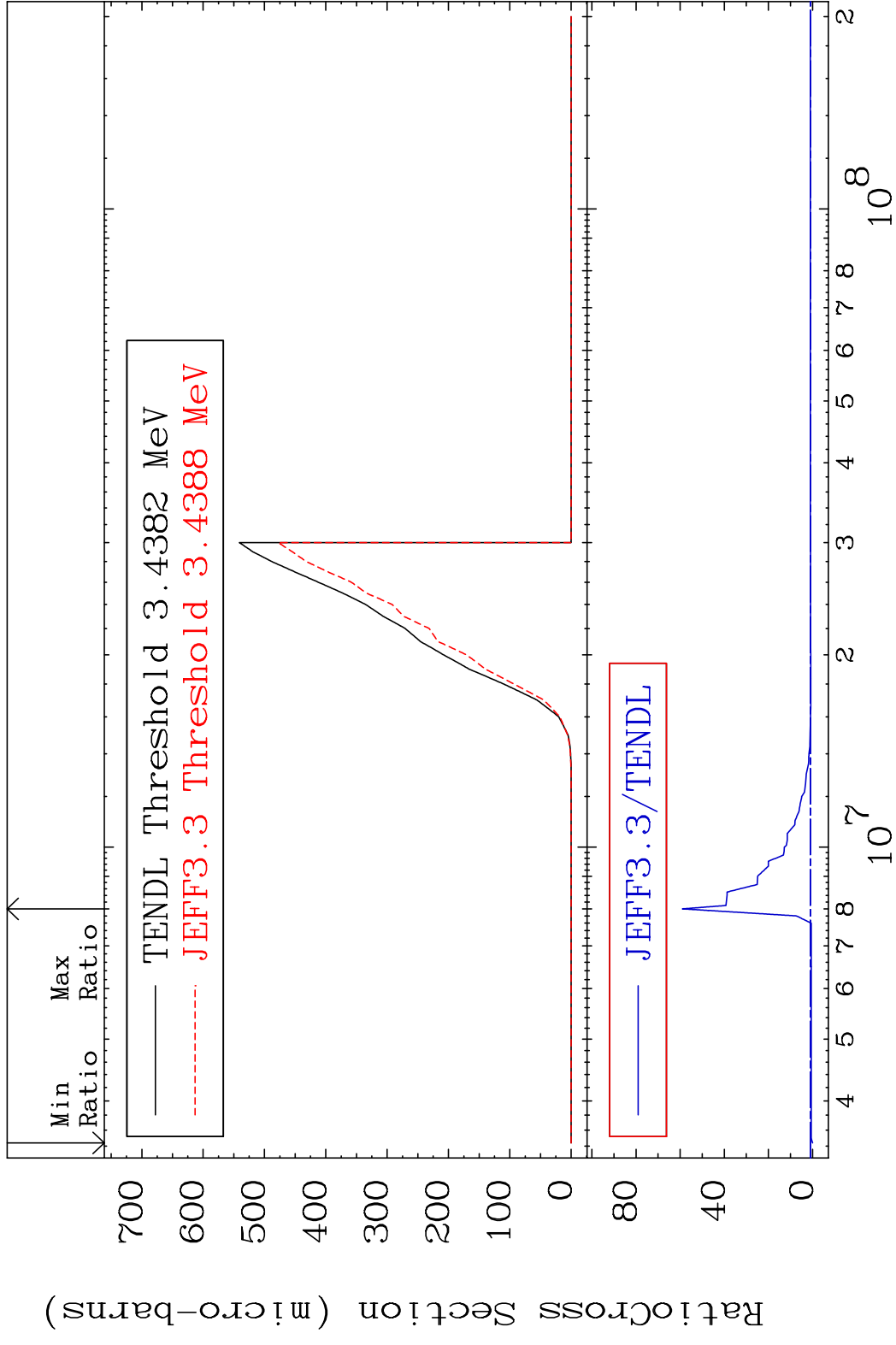
90 41-Nb-91

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

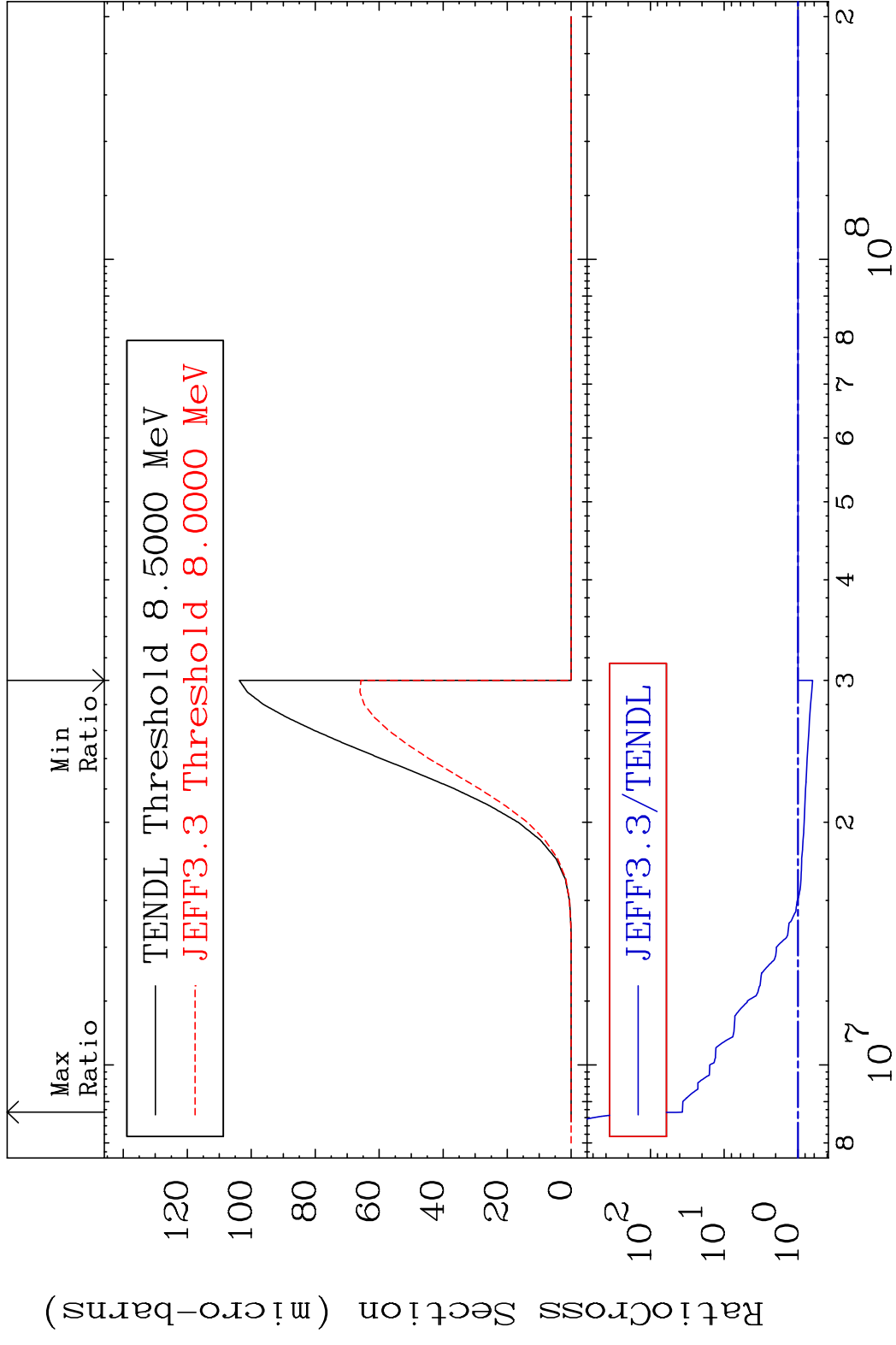


91 Incident Energy (eV) 41-Nb-91

MAT 4119 (n,p)  $\alpha$ :38-Sr-87g 41-Nb-91  
 Radionuclide Production Cross Section 1800 to 5800. %



MAT 4119 (n,p)  $\alpha$ :38-Sr-87m1 41-Nb-91  
 Radionuclide Production Cross Section 3664110 3586. %



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

