

Program Complot  
(Version 2021-1)

by

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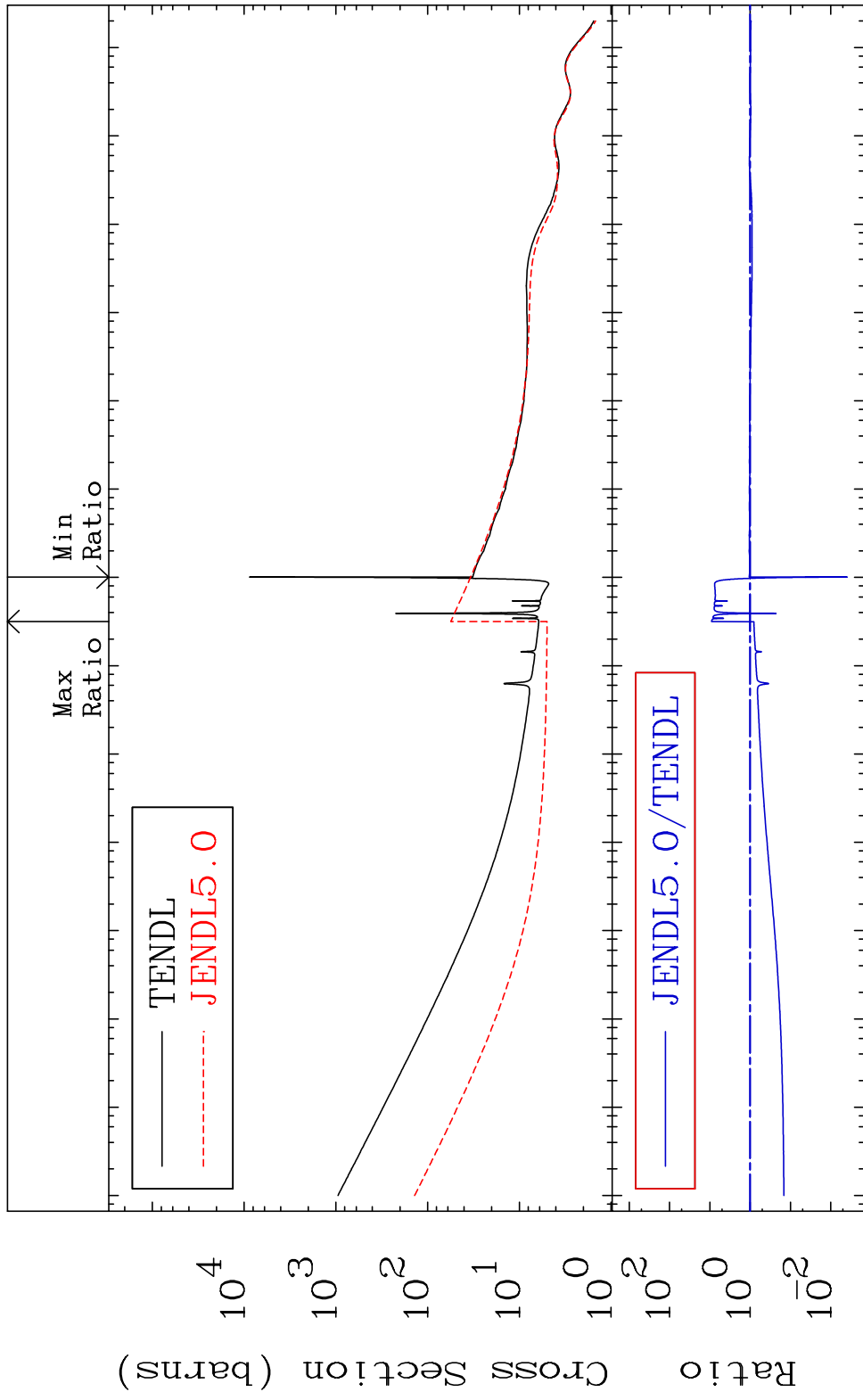
Press Mouse Button to Start

MAT 3919

Total

39-Y -87

Cross Section -99.61 To 810.3 %



10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
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)

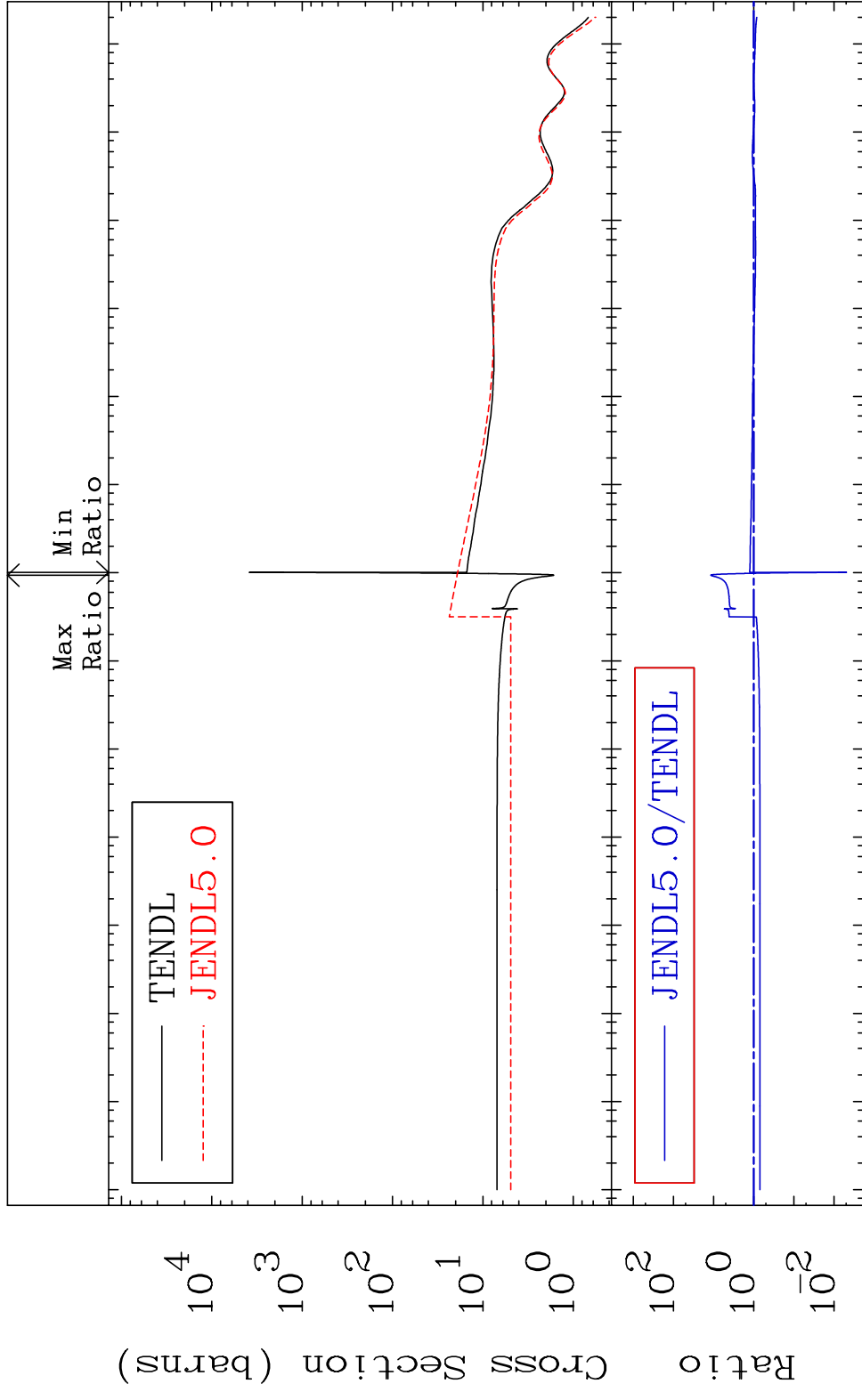
39-Y -87

MAT 3919

Elastic

39-Y -87

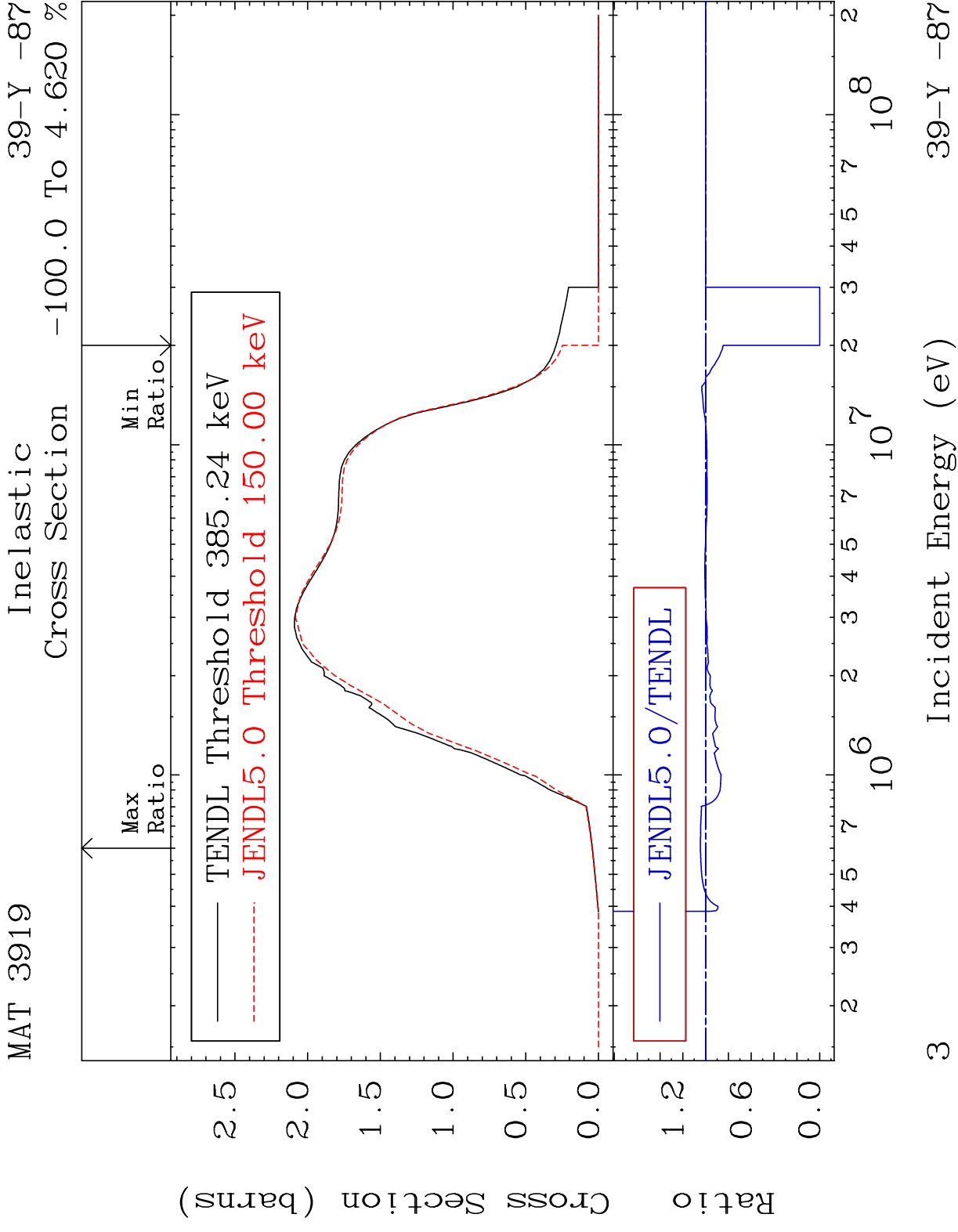
Cross Section -99.51 To 1081. %



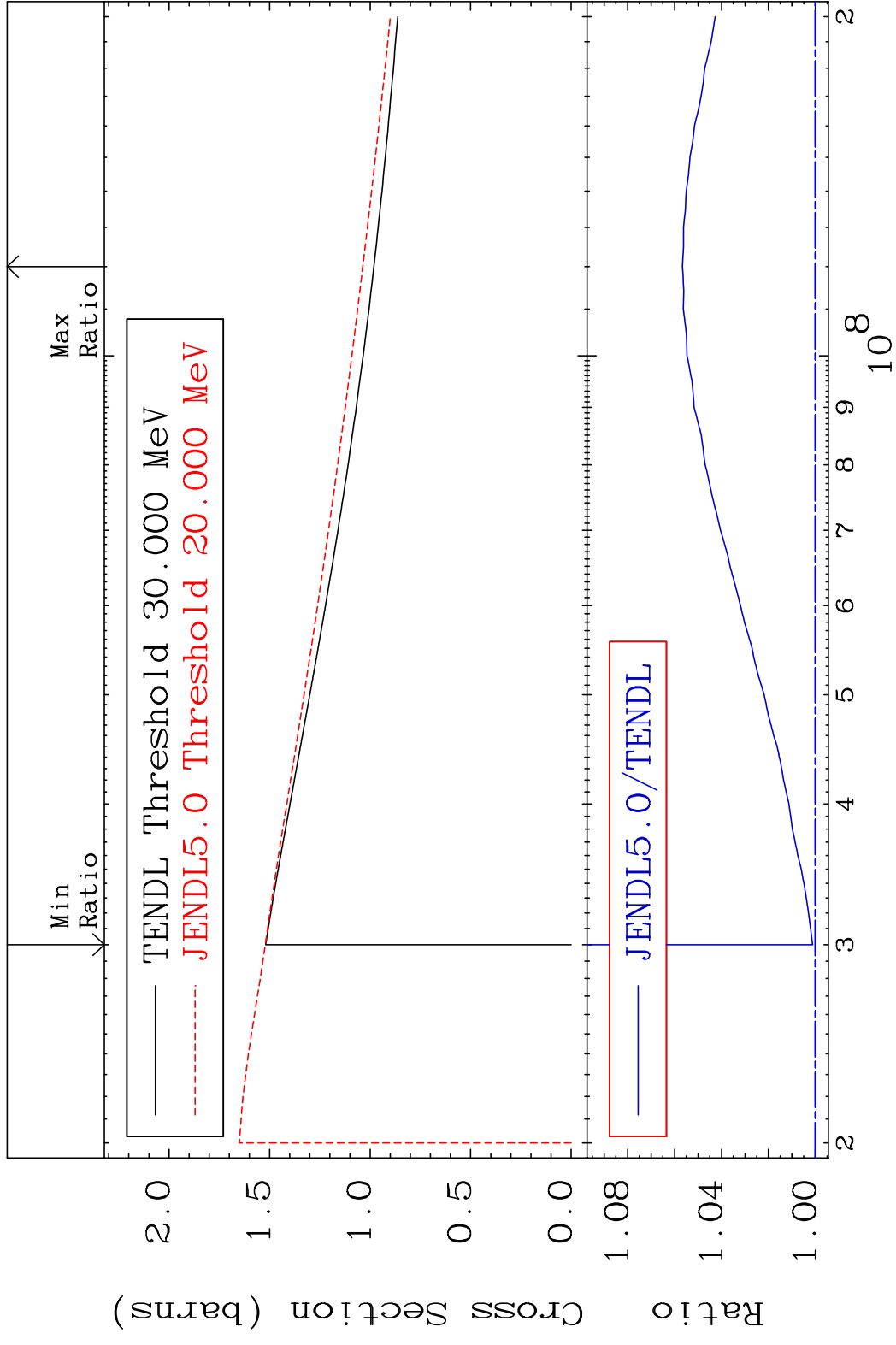
2

Incident Energy (eV)

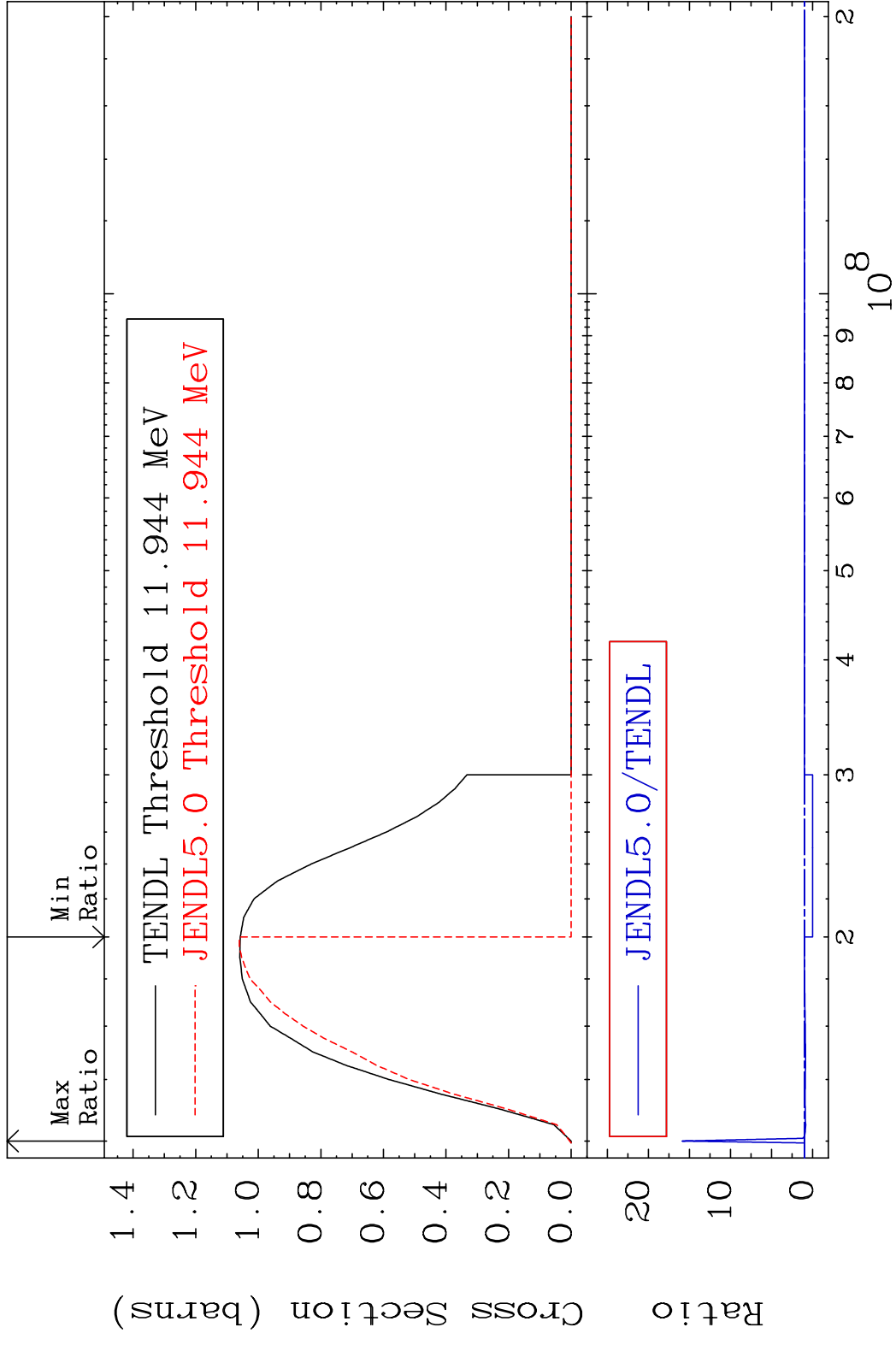
39-Y -87



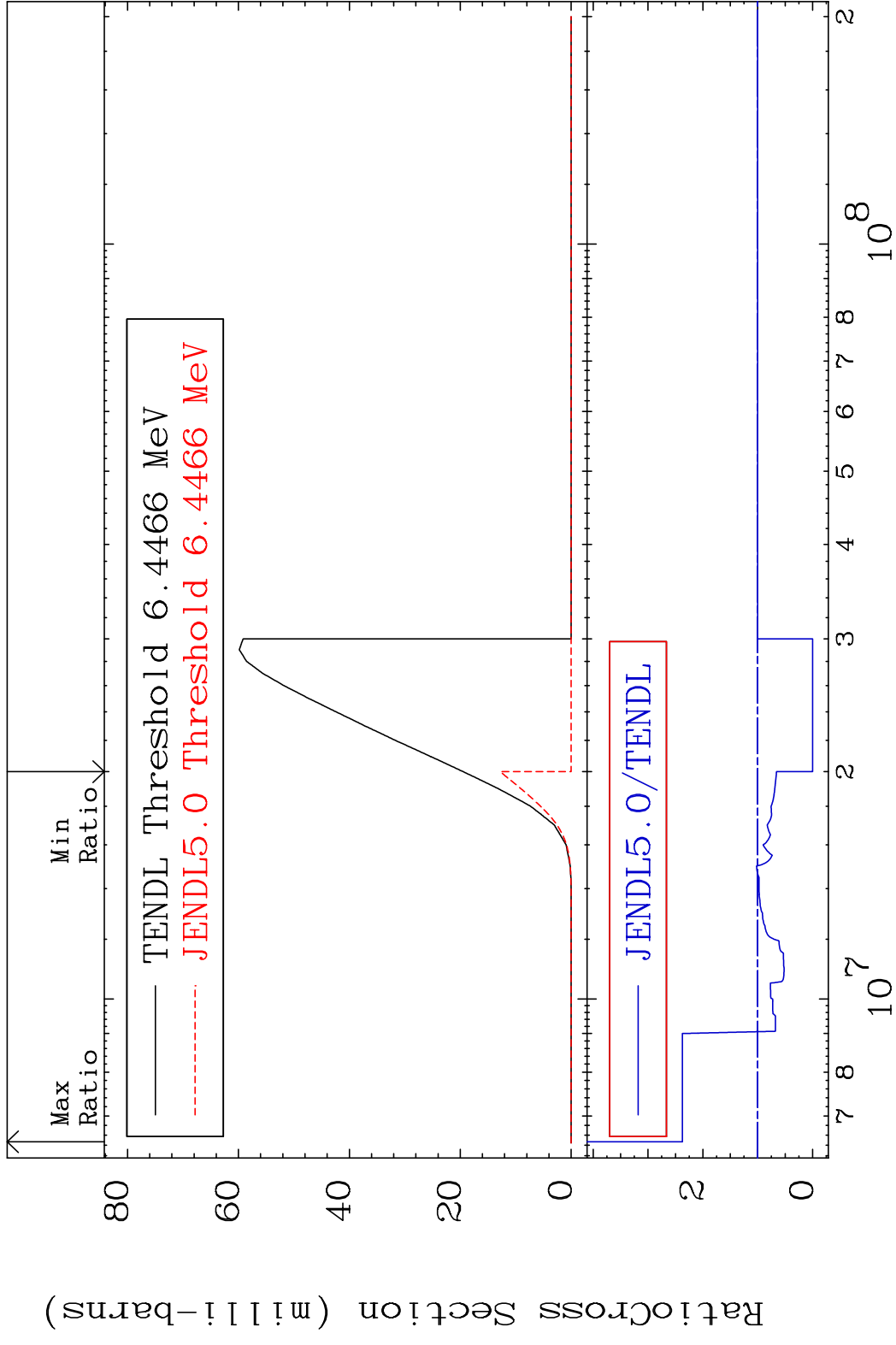
MAT 3919 (n, remainder) 39-Y -87  
 Cross Section 0.123 To 5.668 %



MAT 3919 (n,2n) 39-Y -87  
 Cross Section -100.0 To 1487. %

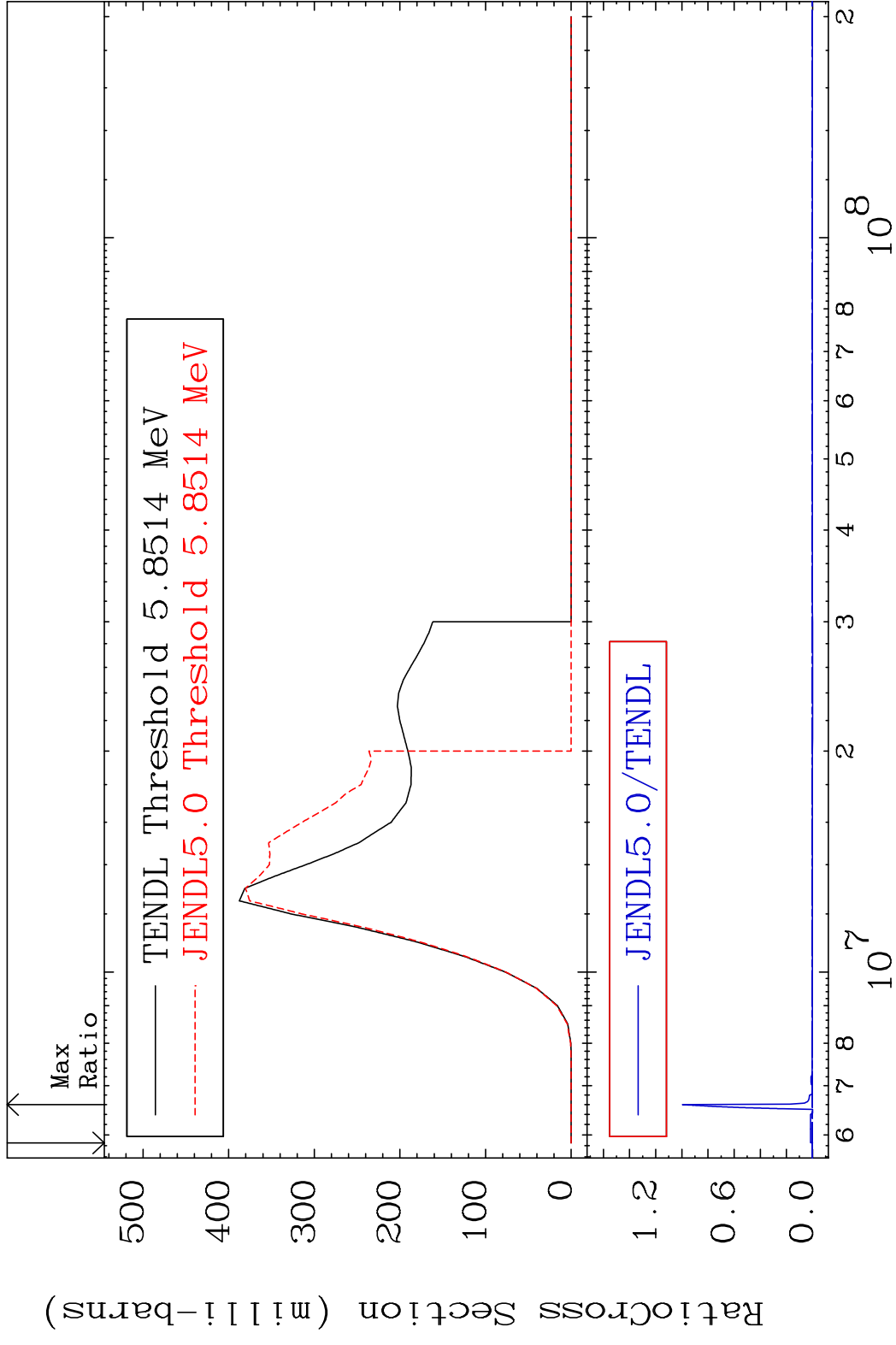


MAT 3919 (n, n')  $\alpha$  39-Y -87  
 Cross Section -100.0 To 137.4 %



6 Incident Energy (eV) 39-Y -87

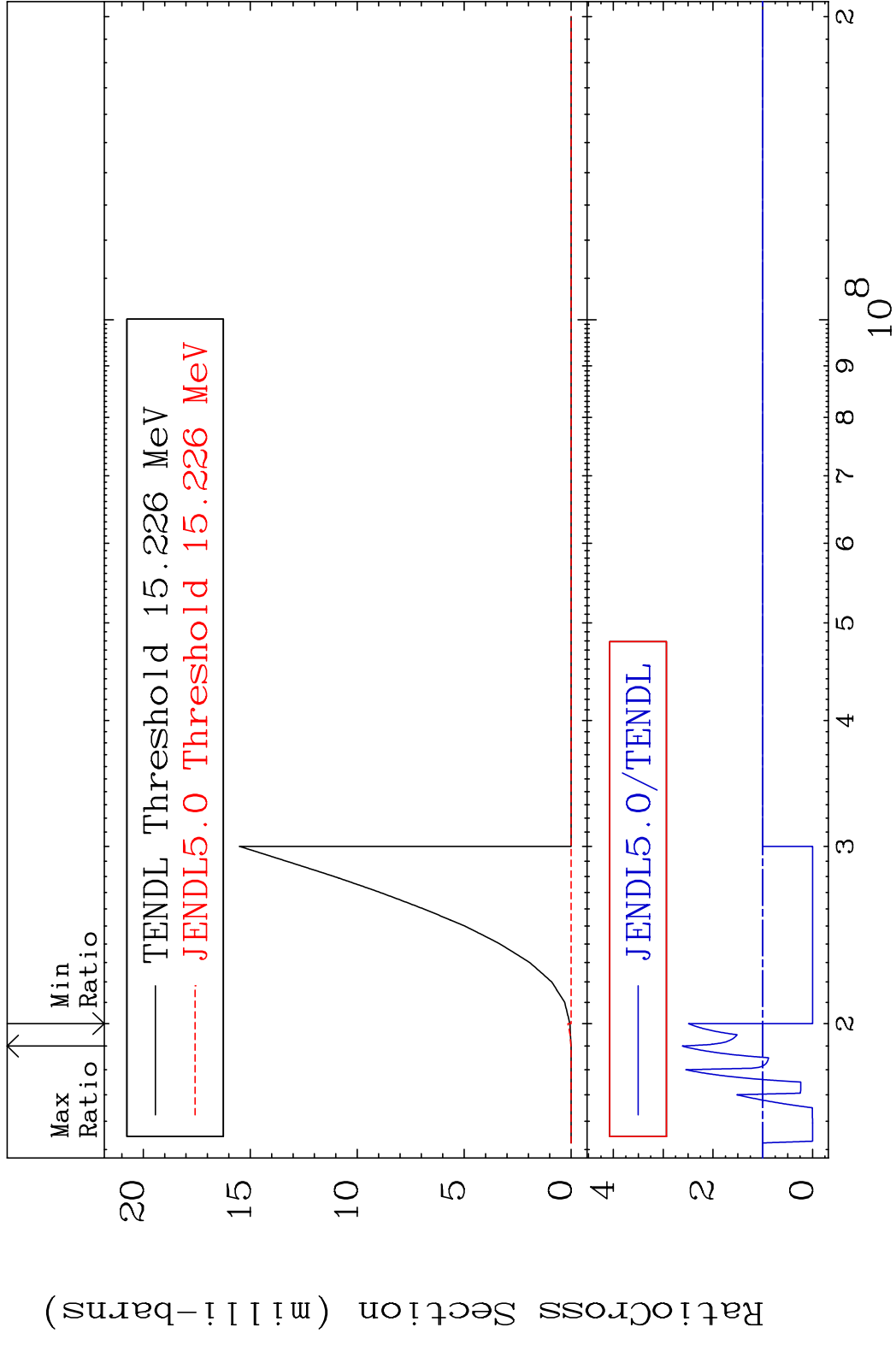
MAT 3919 (n, n') p 39-Y -87  
 Cross Section -100.0 To 9999. %



7 7 Incident Energy (eV) 39-Y -87

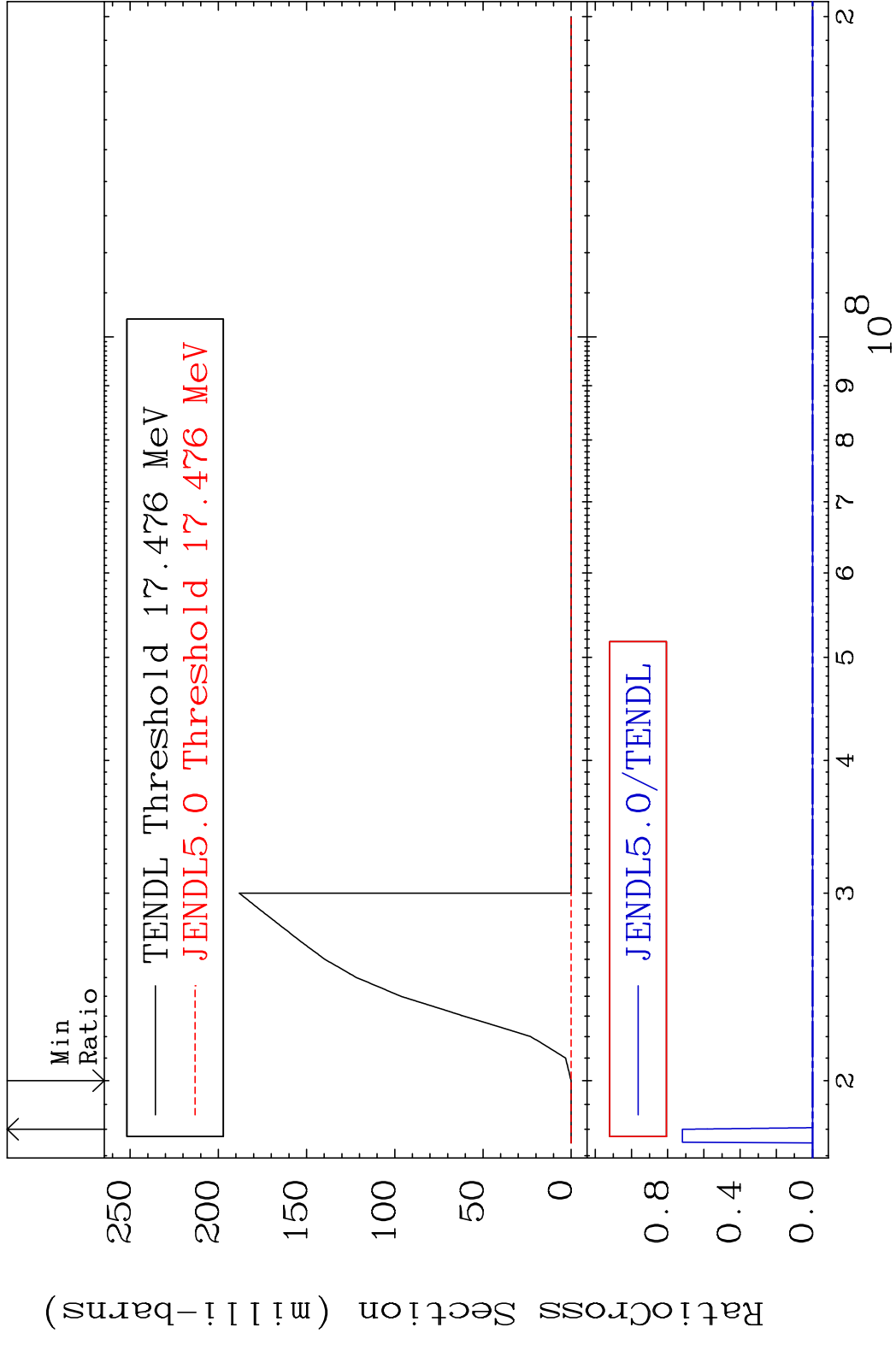


MAT 3919 (n, n') d 39-Y -87  
 Cross Section -100.0 To 161.5 %

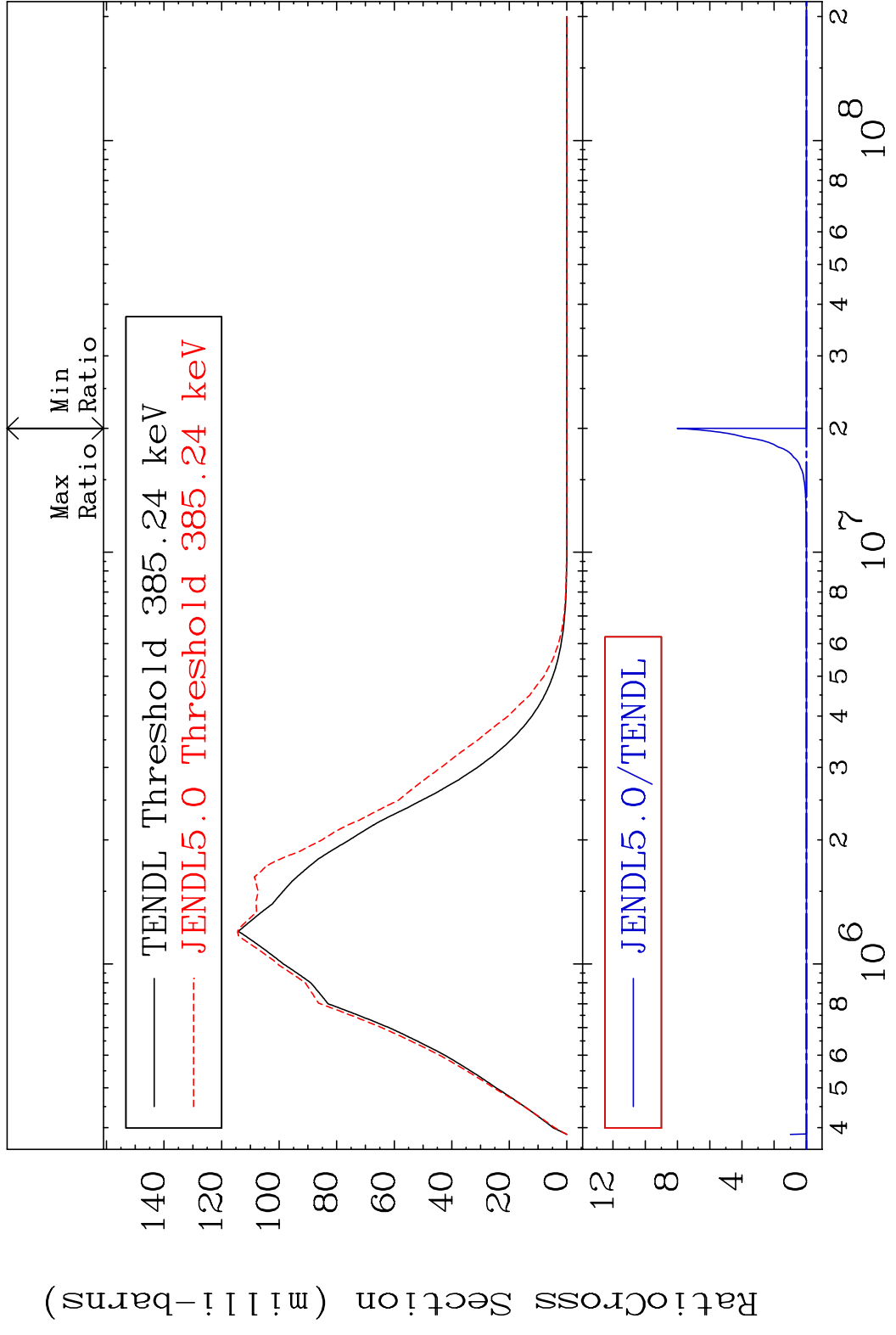


8 Incident Energy (eV) 39-Y -87

MAT 3919 (n,2n) p 39-Y -87  
 Cross Section -100.0 To 9999. %

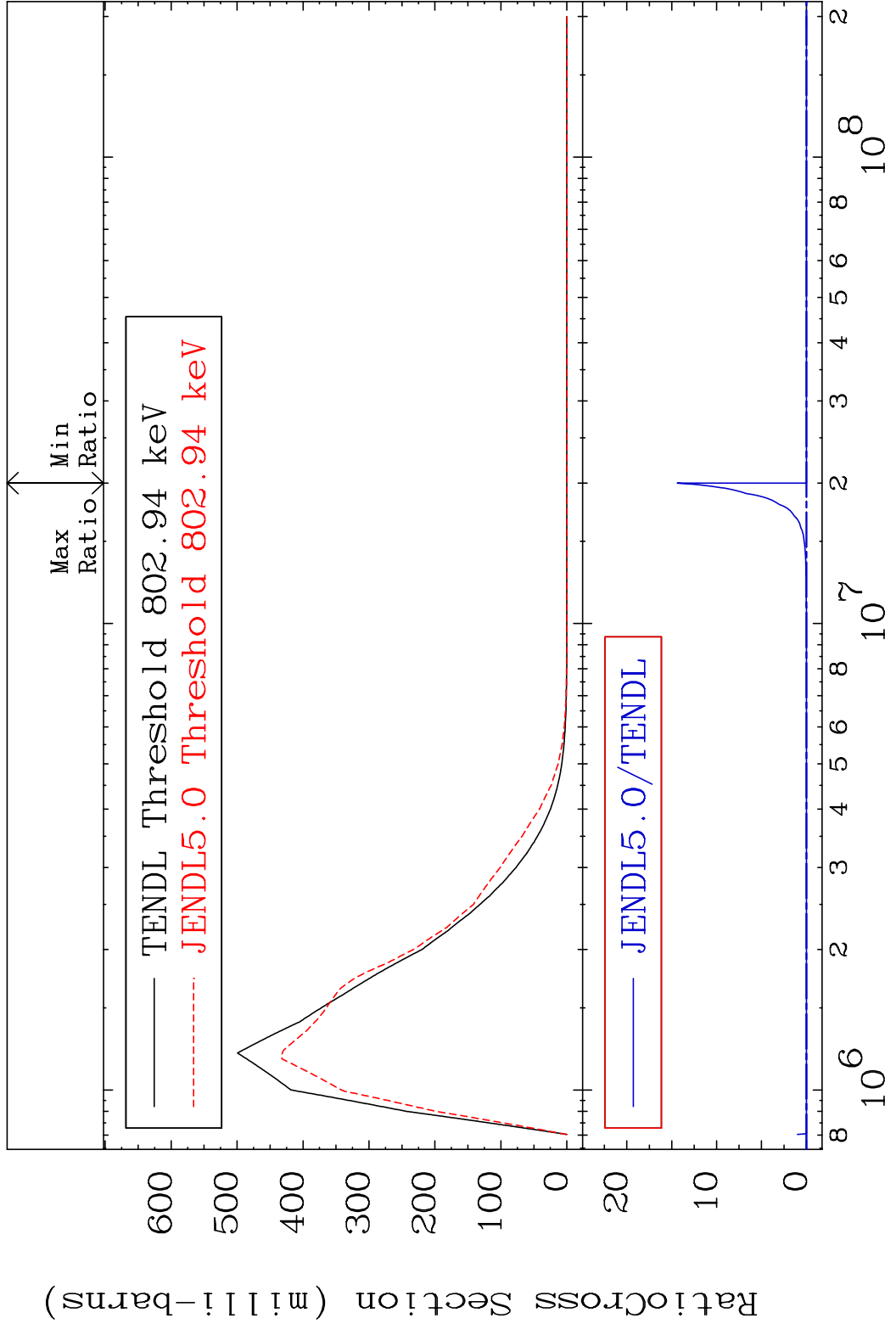


MAT 3919 MT= 51 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



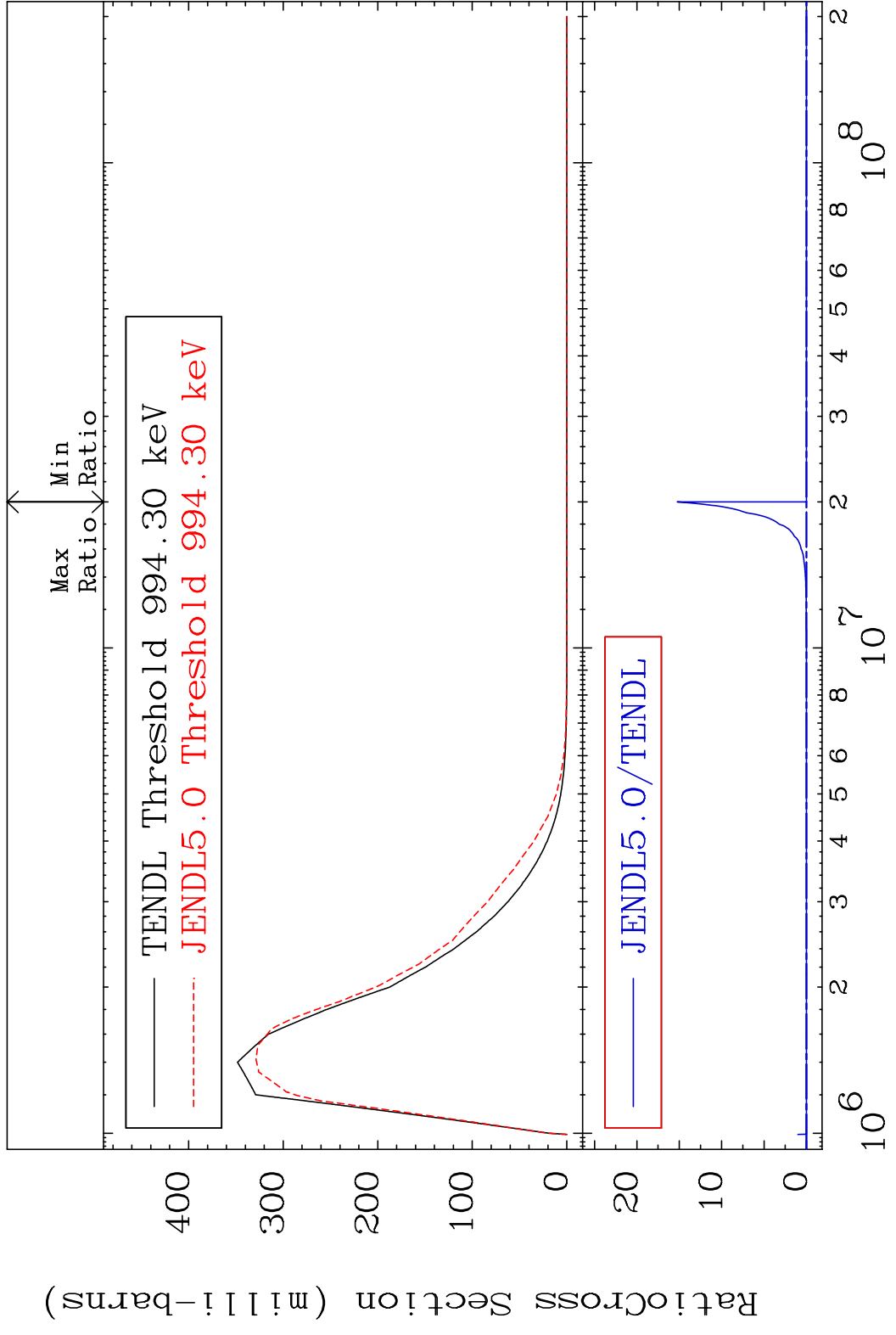
10 Incident Energy (eV) 39-Y -87

MAT 3919 MT= 52 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



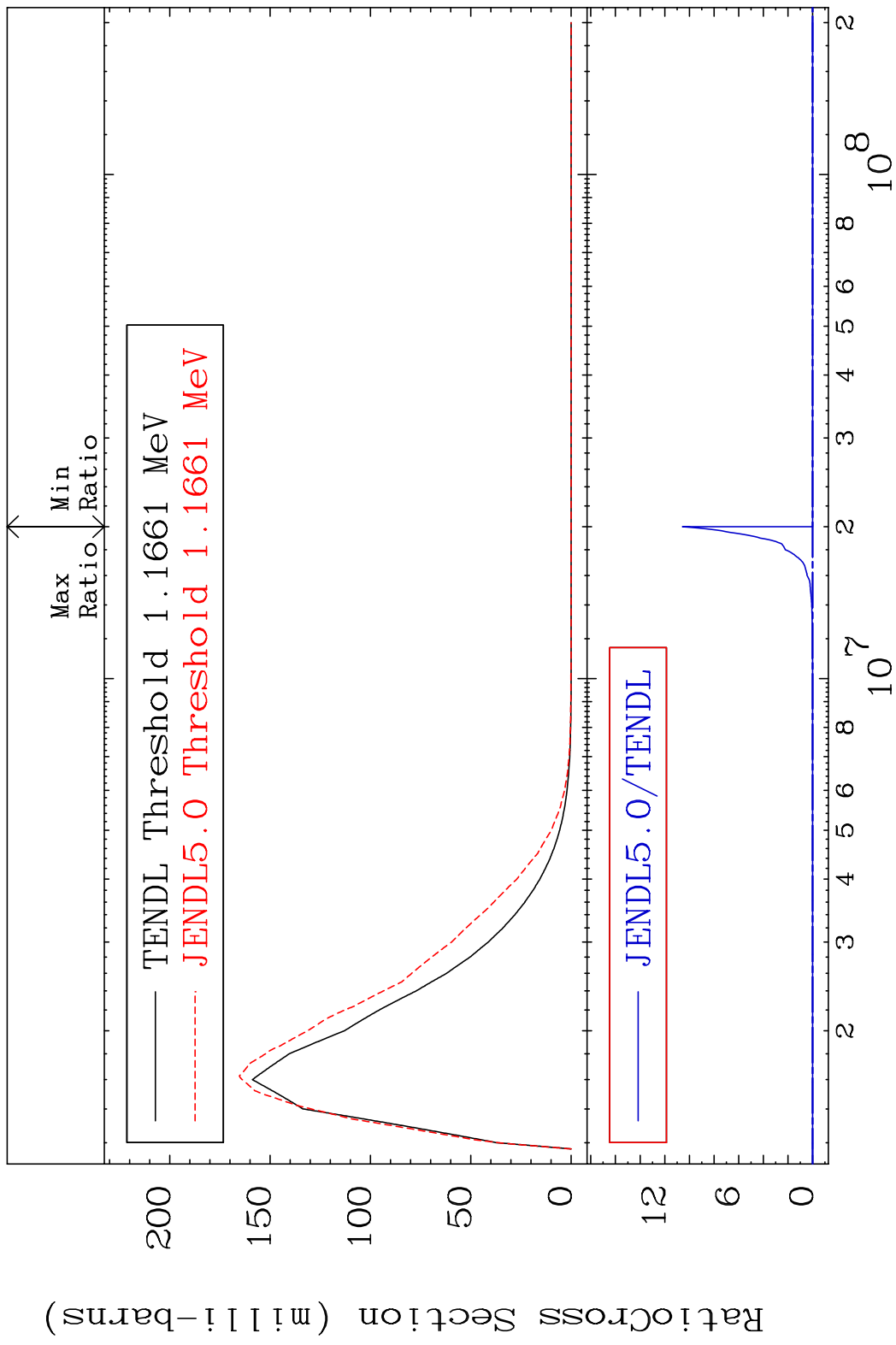
11 Incident Energy (eV) 39-Y -87

MAT 3919 MT= 53 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %

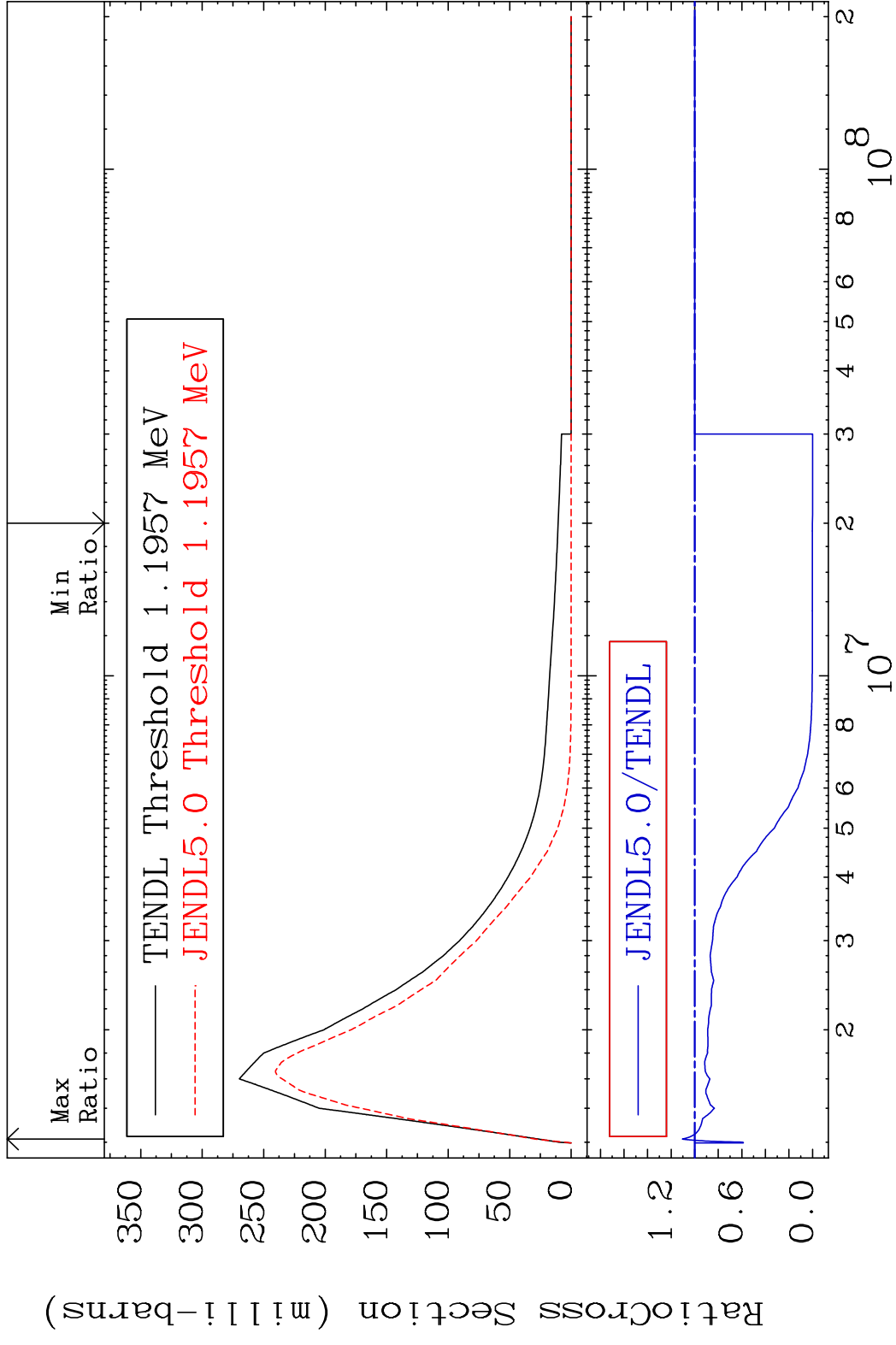


12 Incident Energy (eV) 39-Y -87

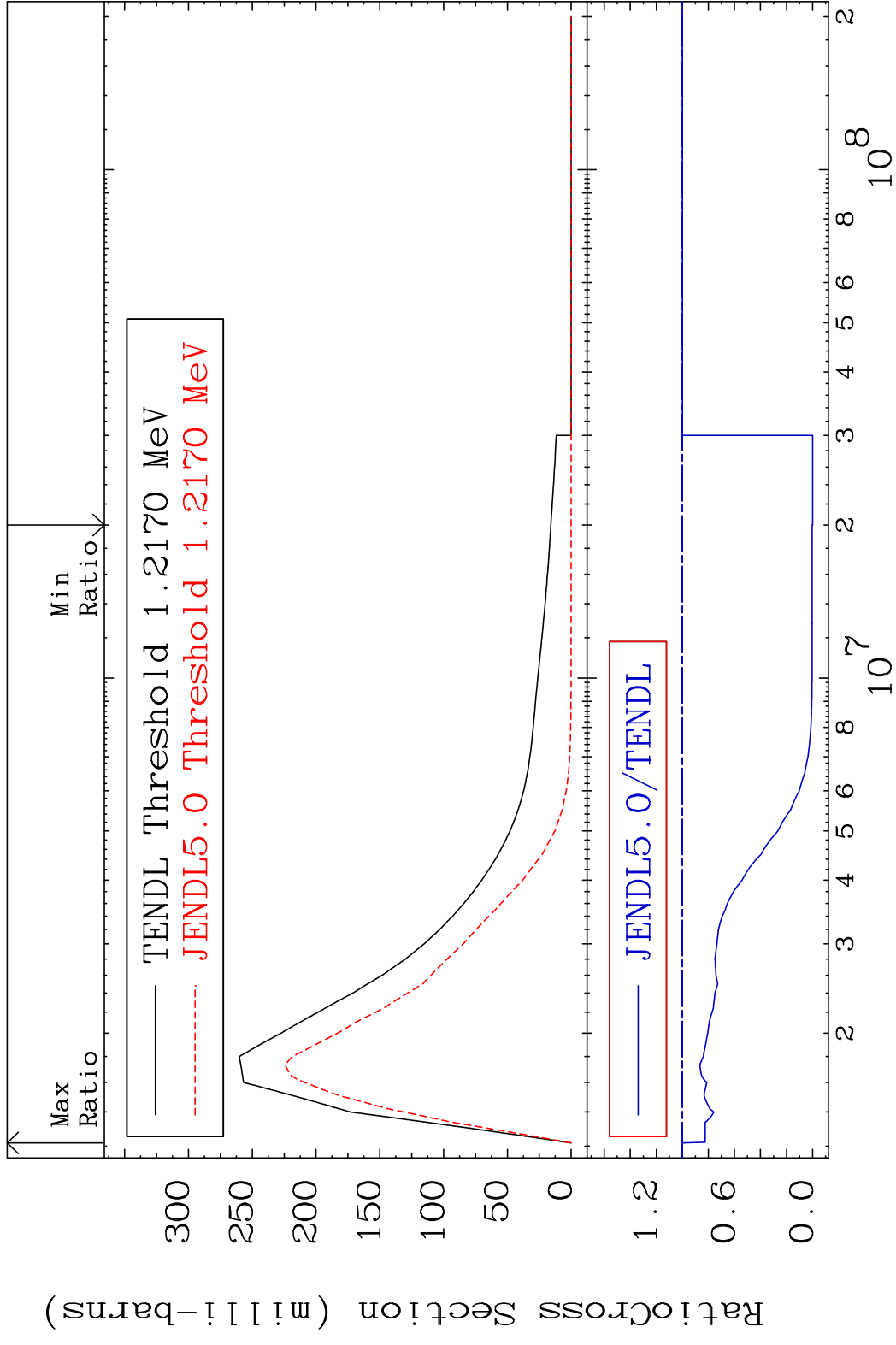
MAT 3919 MT= 54 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



MAT 3919 MT= 55 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 10.47 %

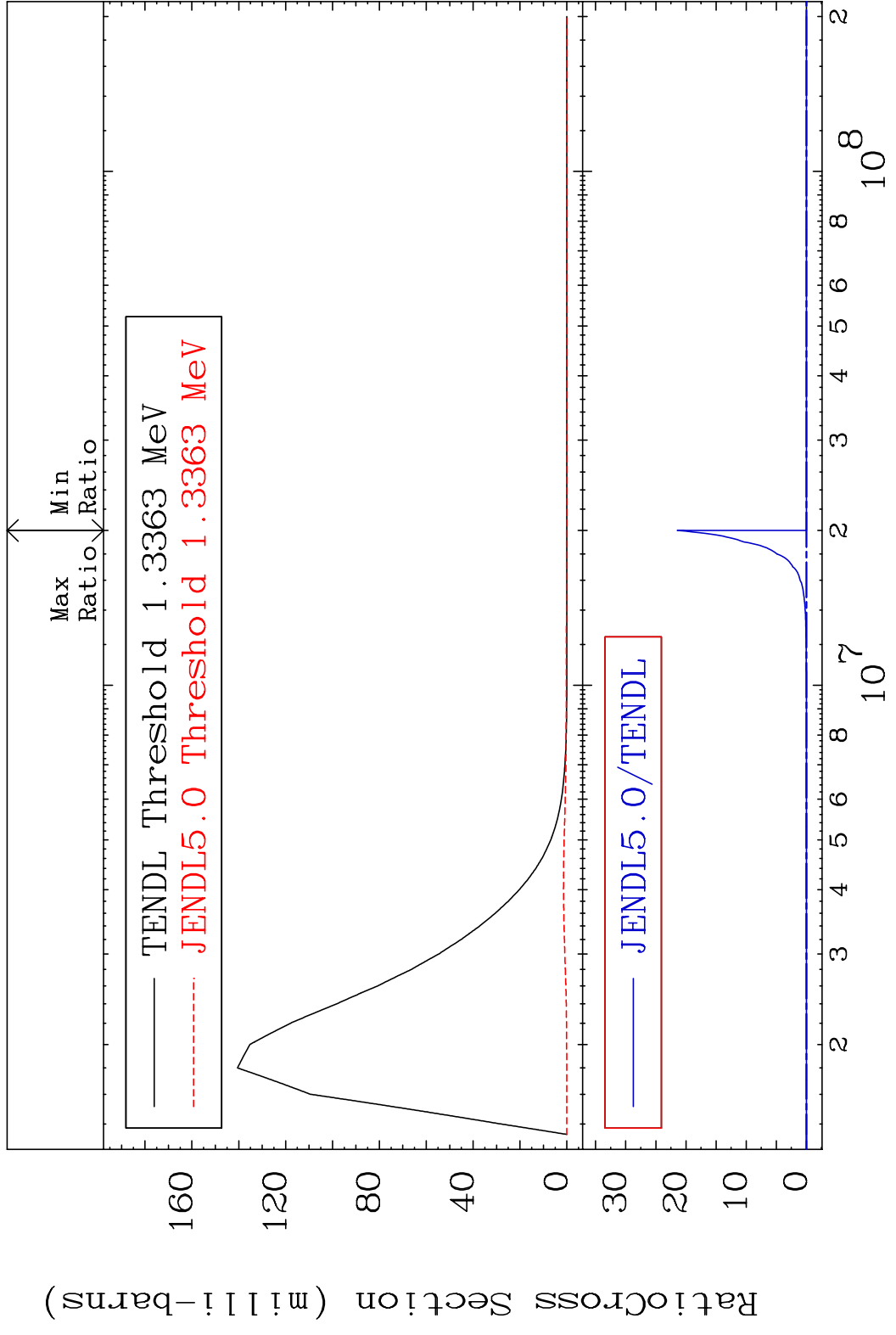


MAT 3919 MT= 56 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 0.000 %



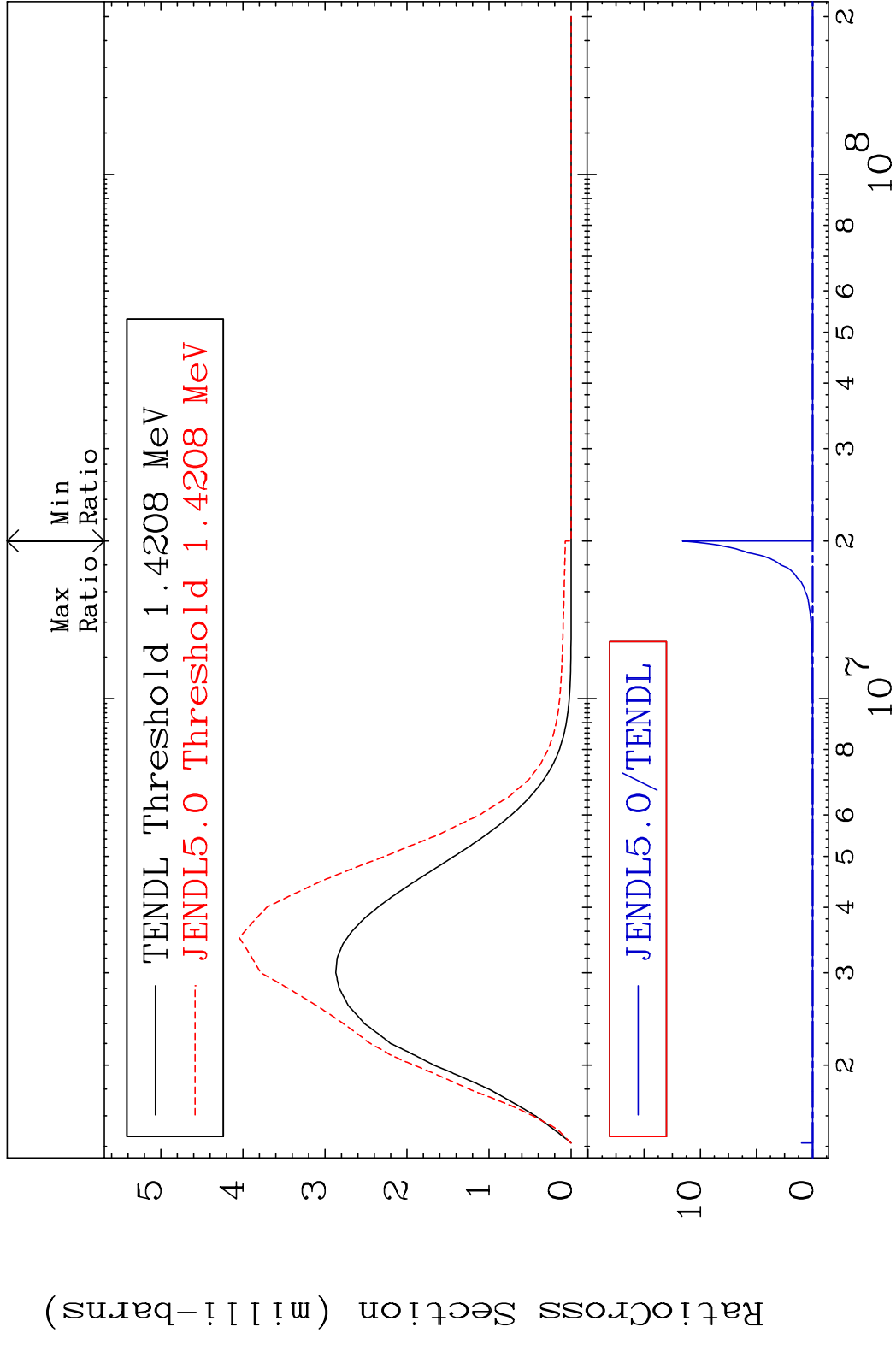


MAT 3919 MT= 57 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %

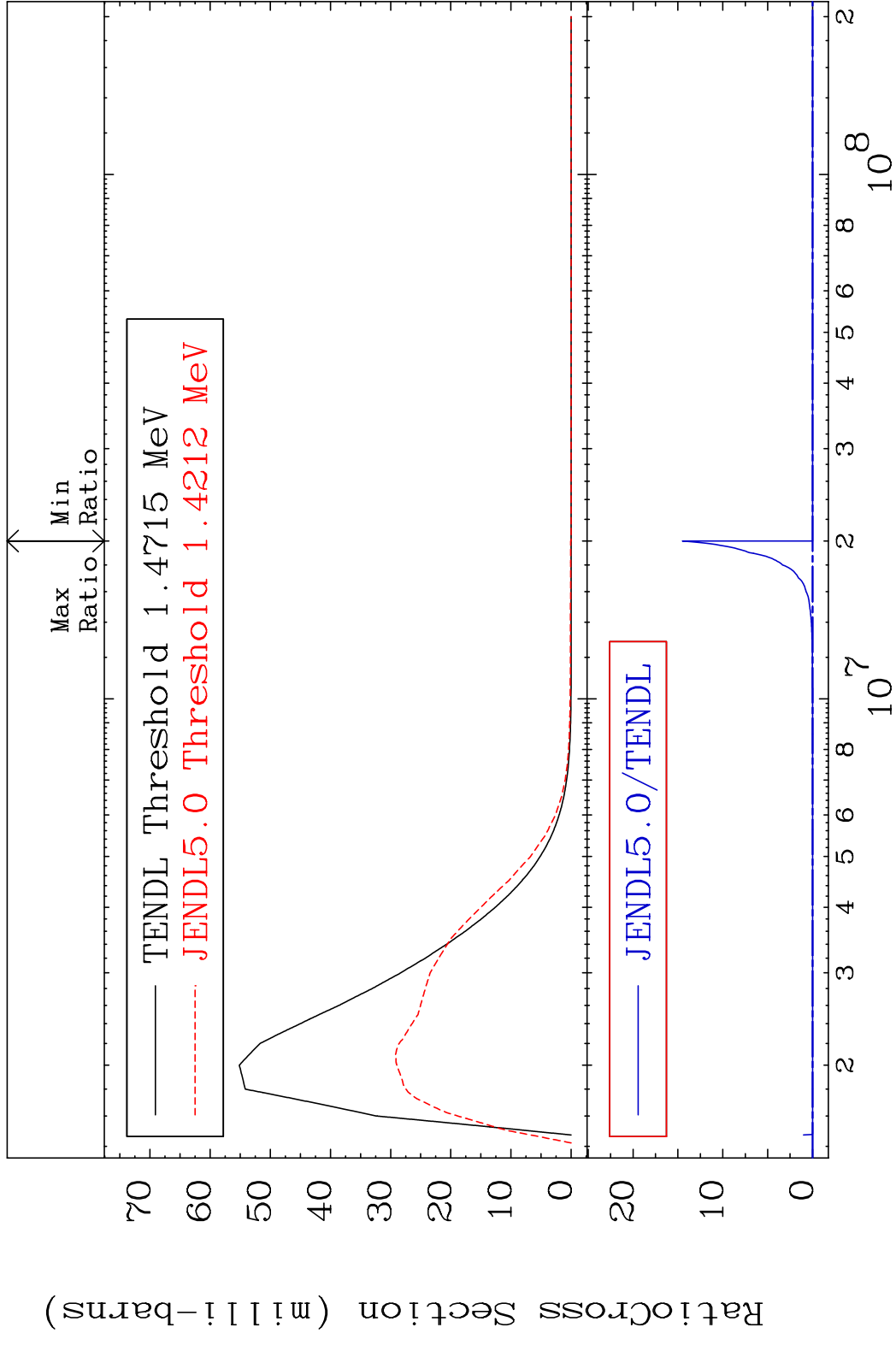


16 Incident Energy (eV) 39-Y -87

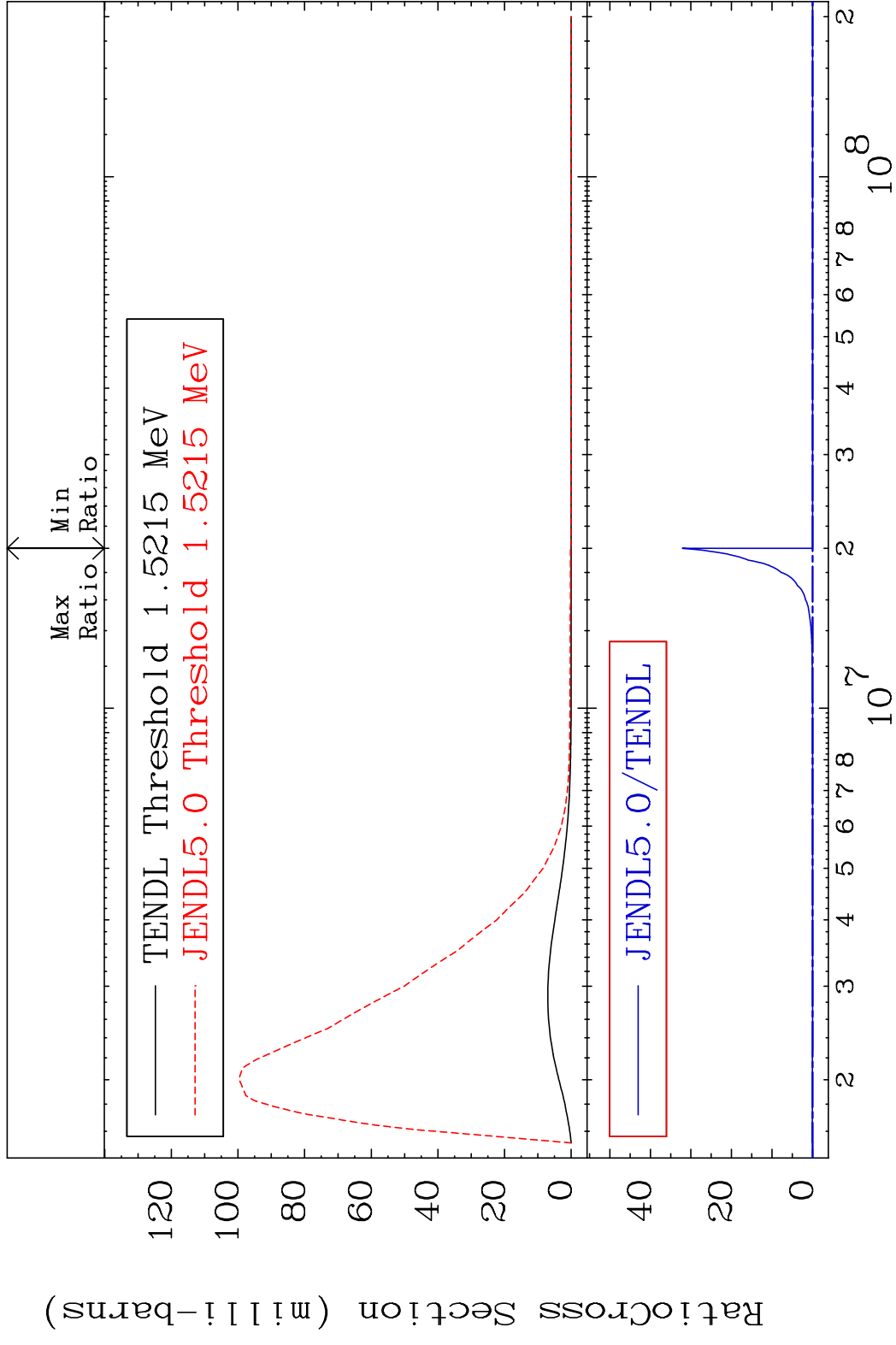
MAT 3919 MT= 58 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



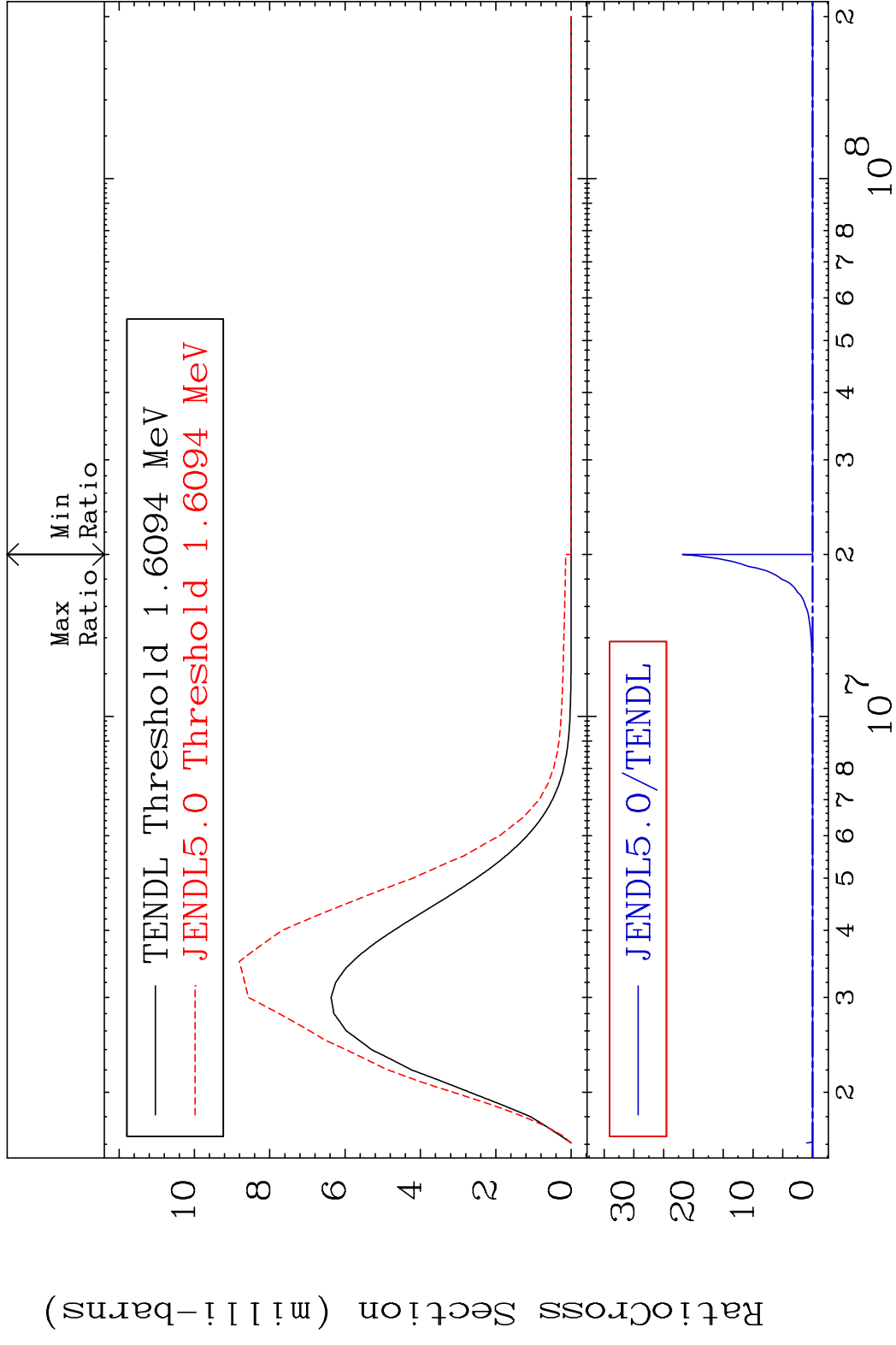
MAT 3919 MT= 59 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



MAT 3919 MT= 60 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %

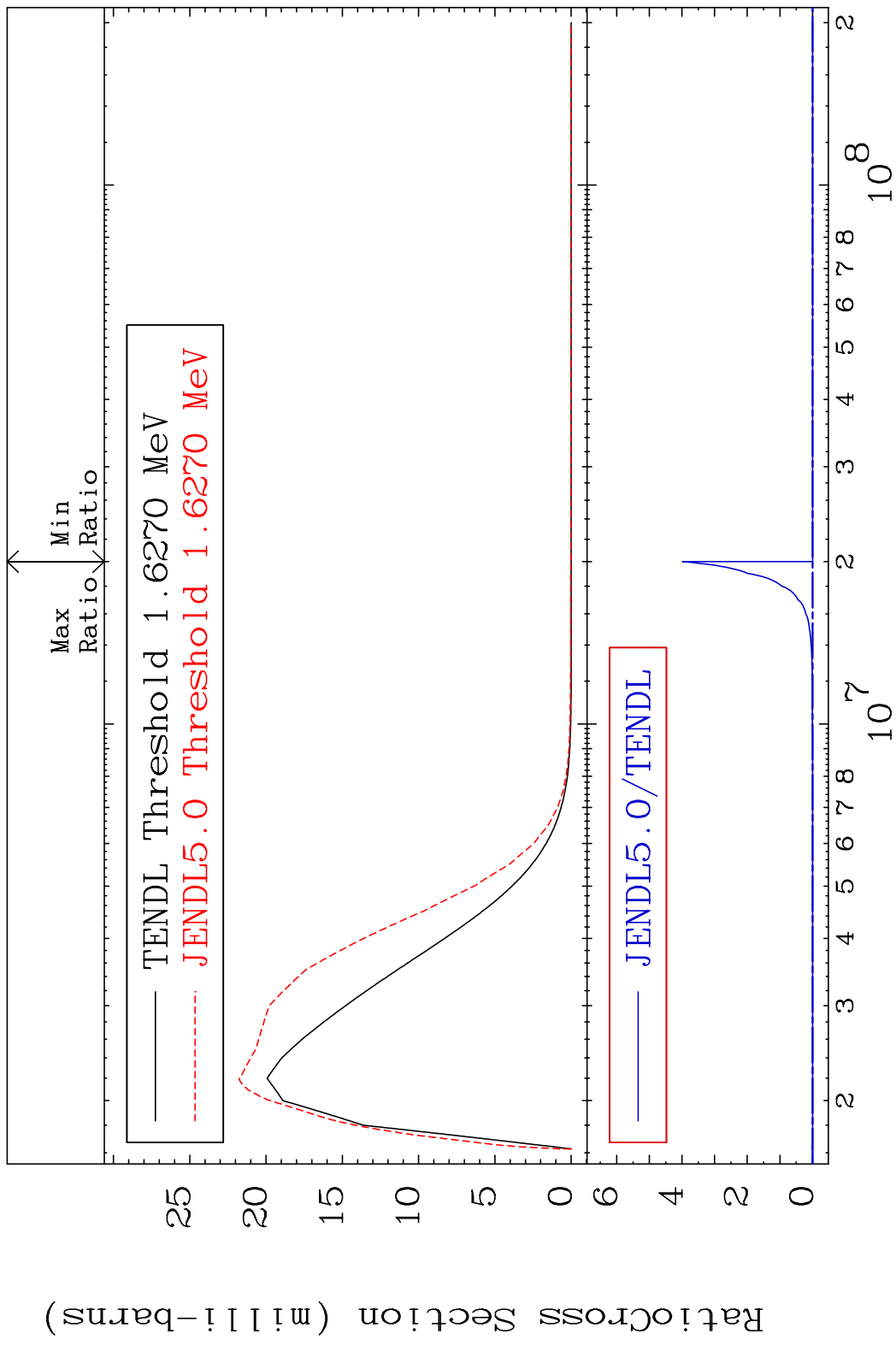


MAT 3919 MT= 61 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



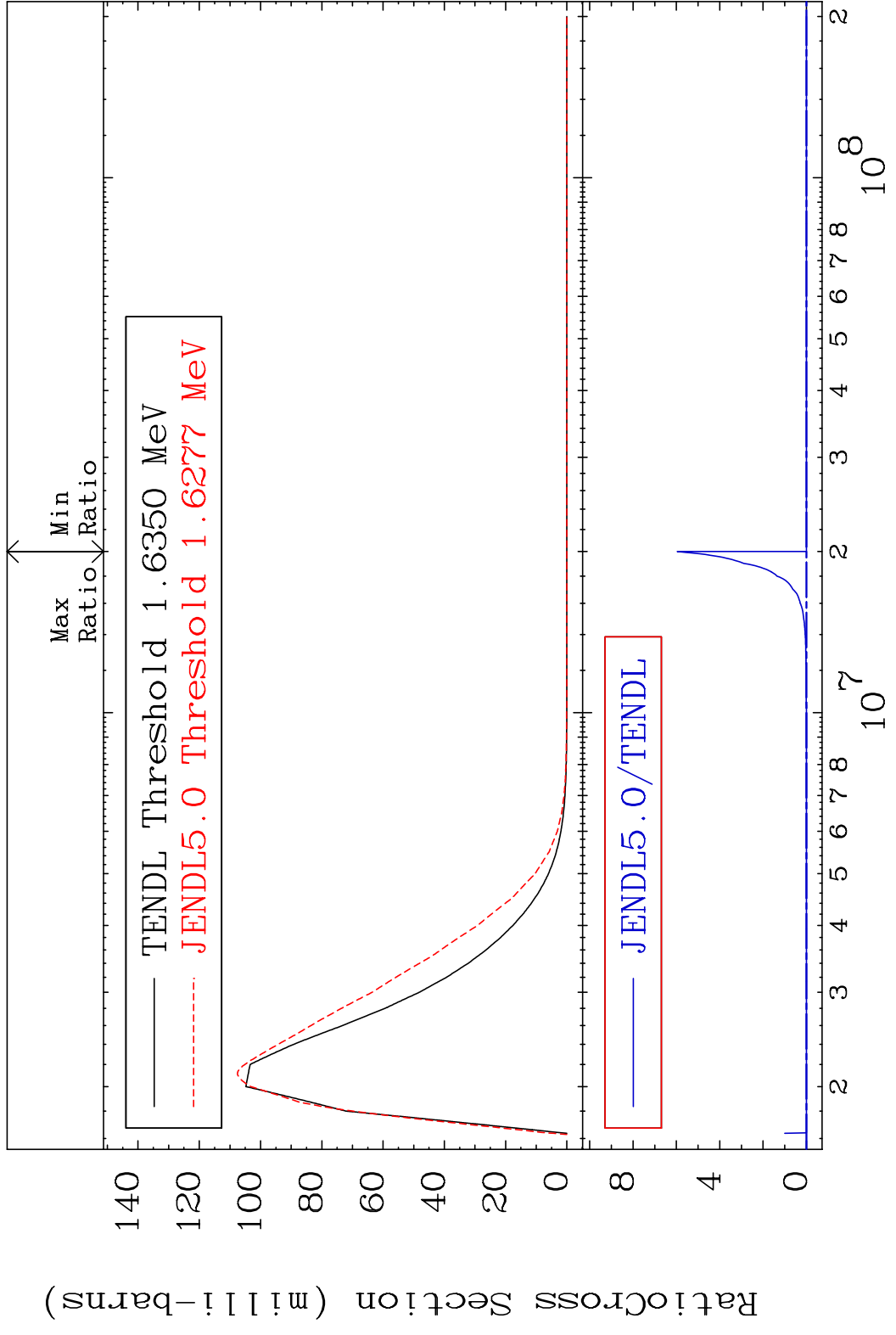
20 Incident Energy (eV) 39-Y -87

MAT 3919 MT= 62 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



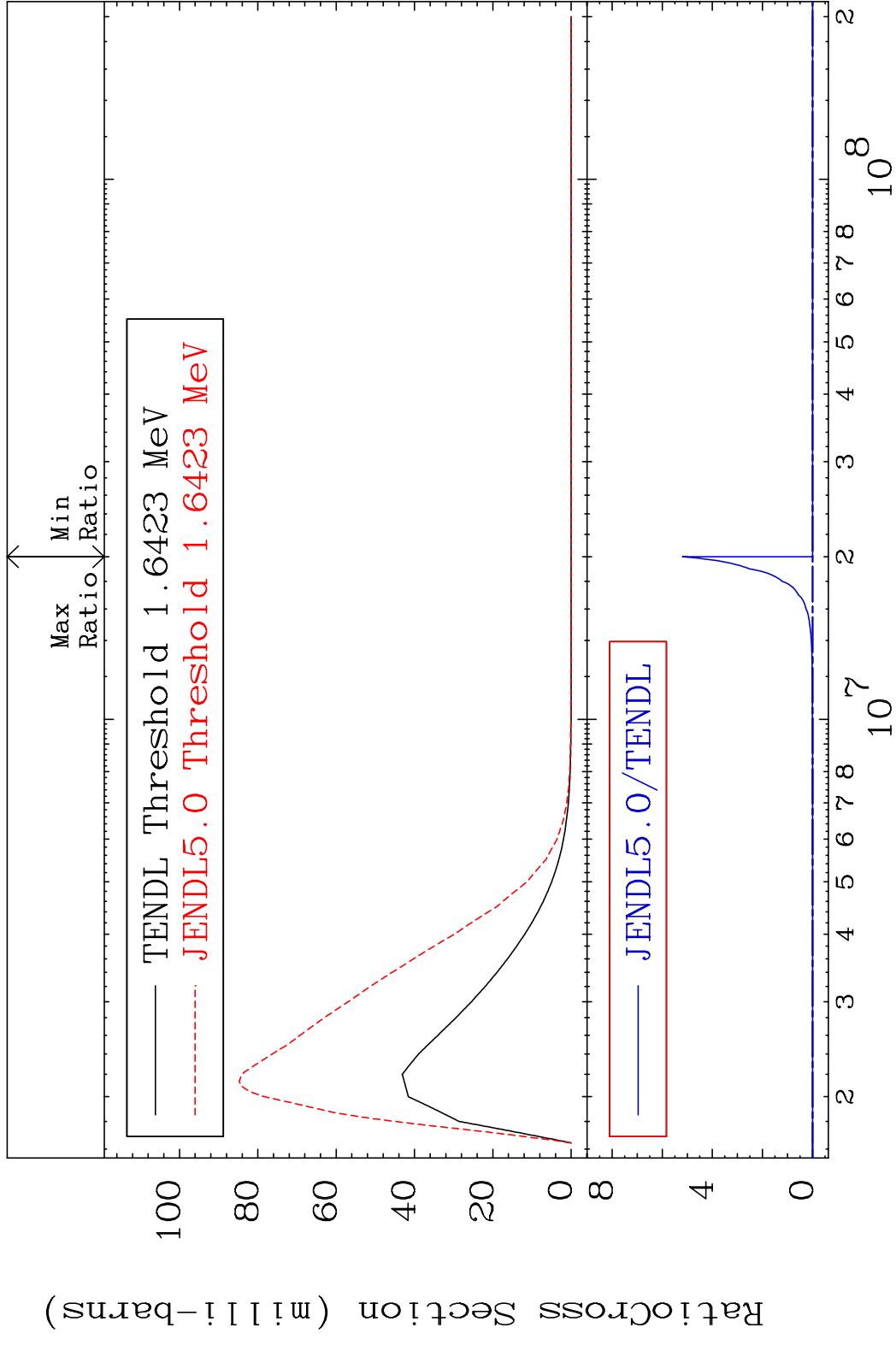
21 Incident Energy (eV) 39-Y -87

MAT 3919 MT= 63 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



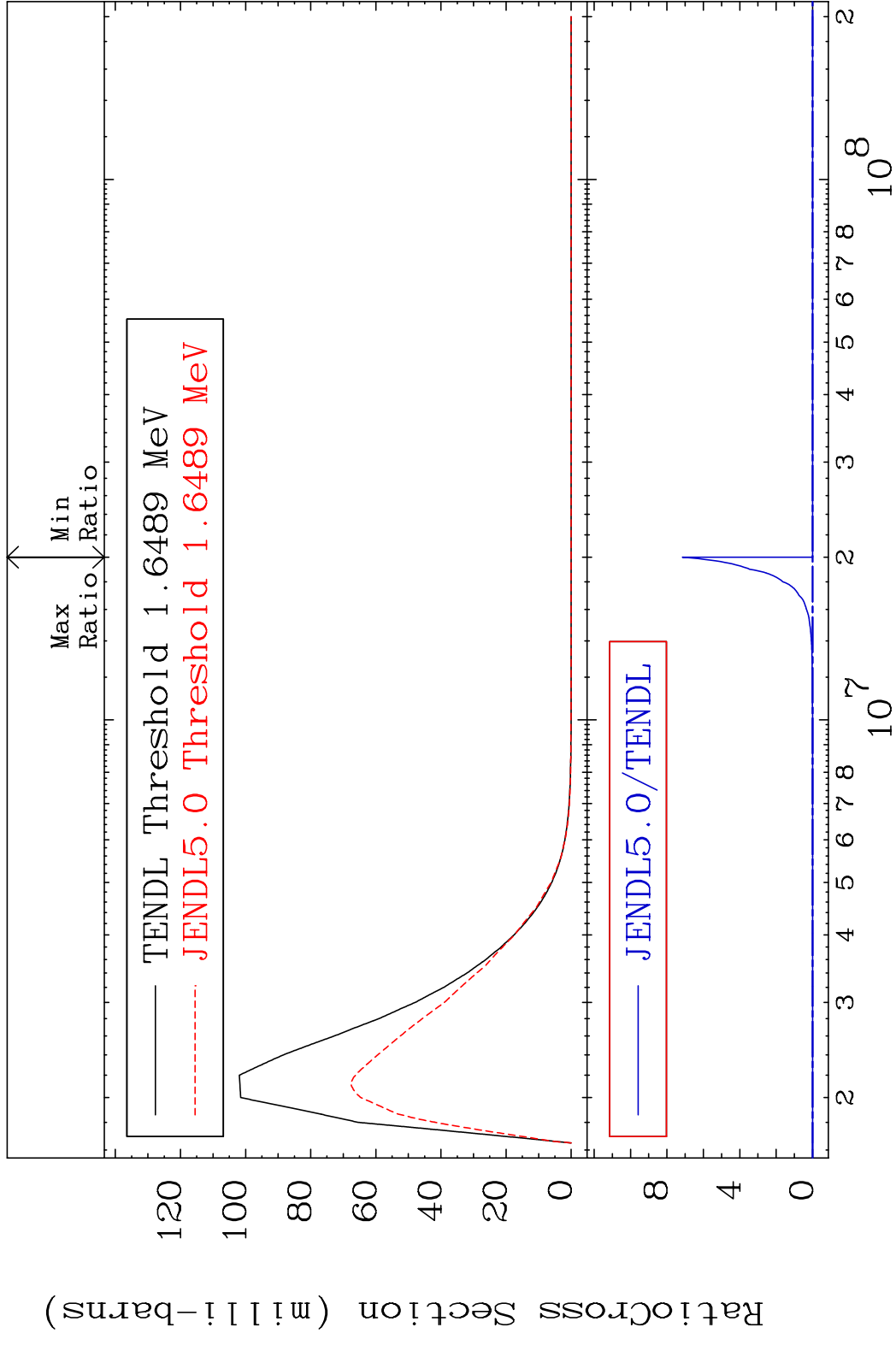
22 Incident Energy (eV) 39-Y -87

MAT 3919 MT= 64 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %

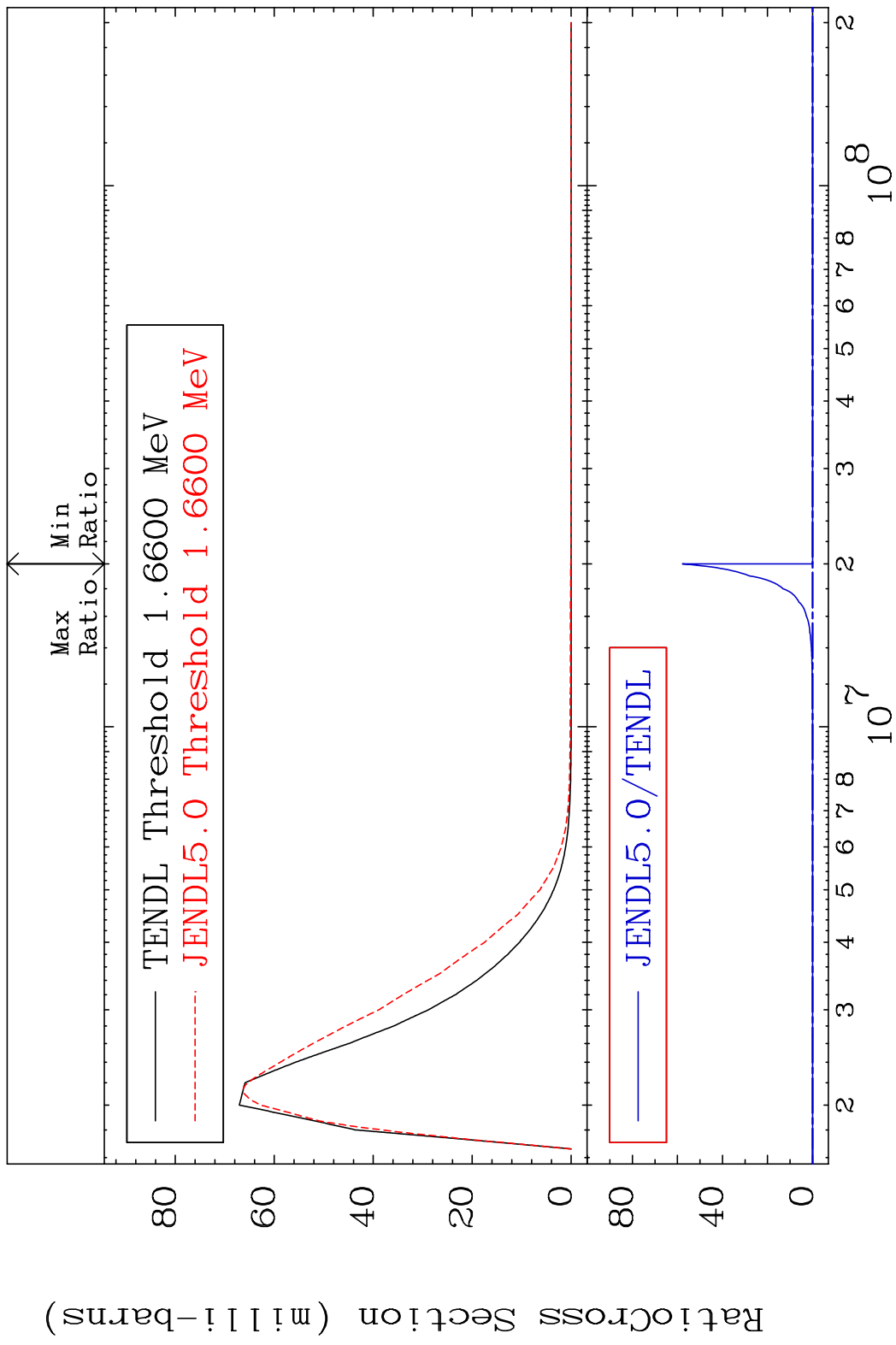




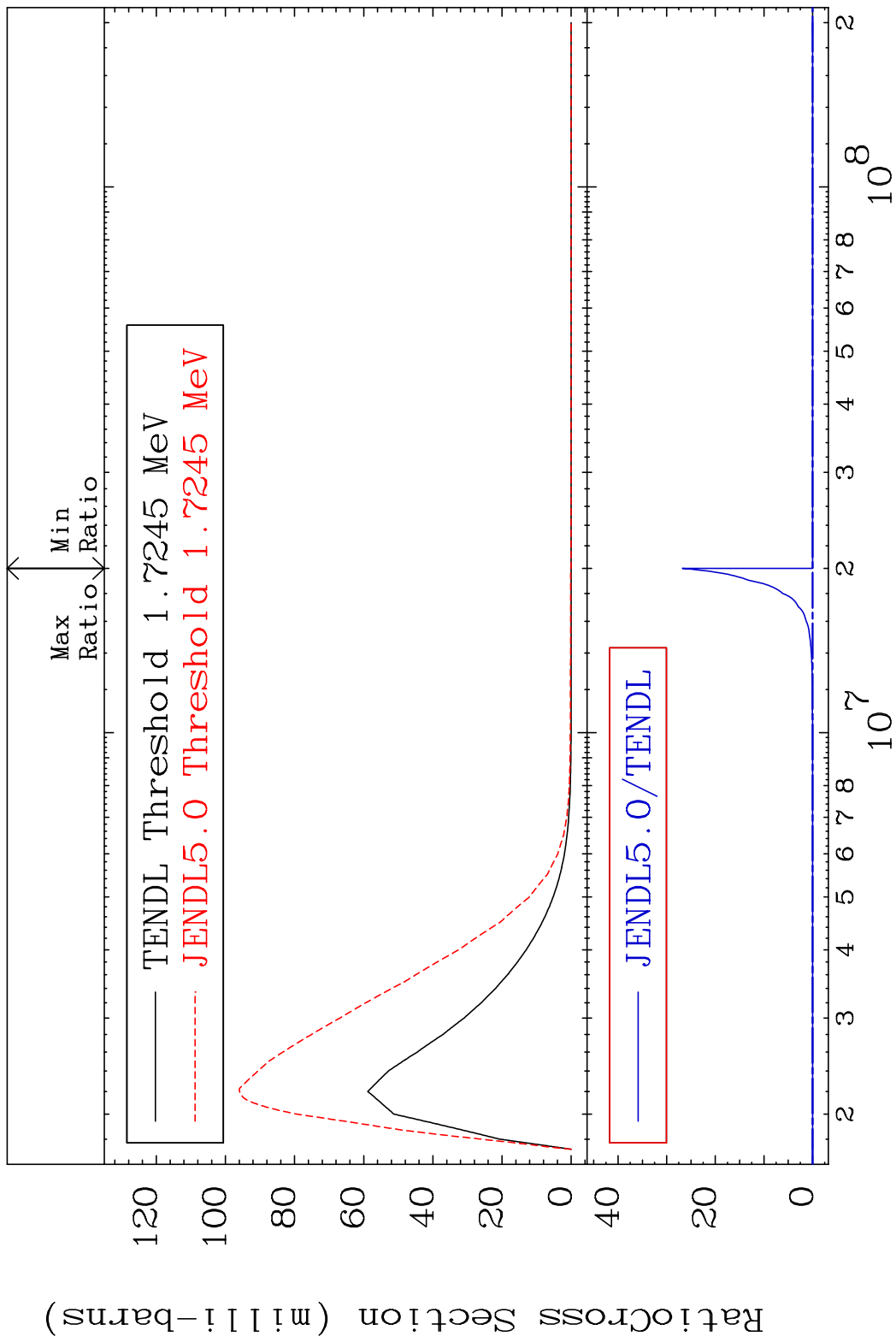
MAT 3919 MT= 65 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



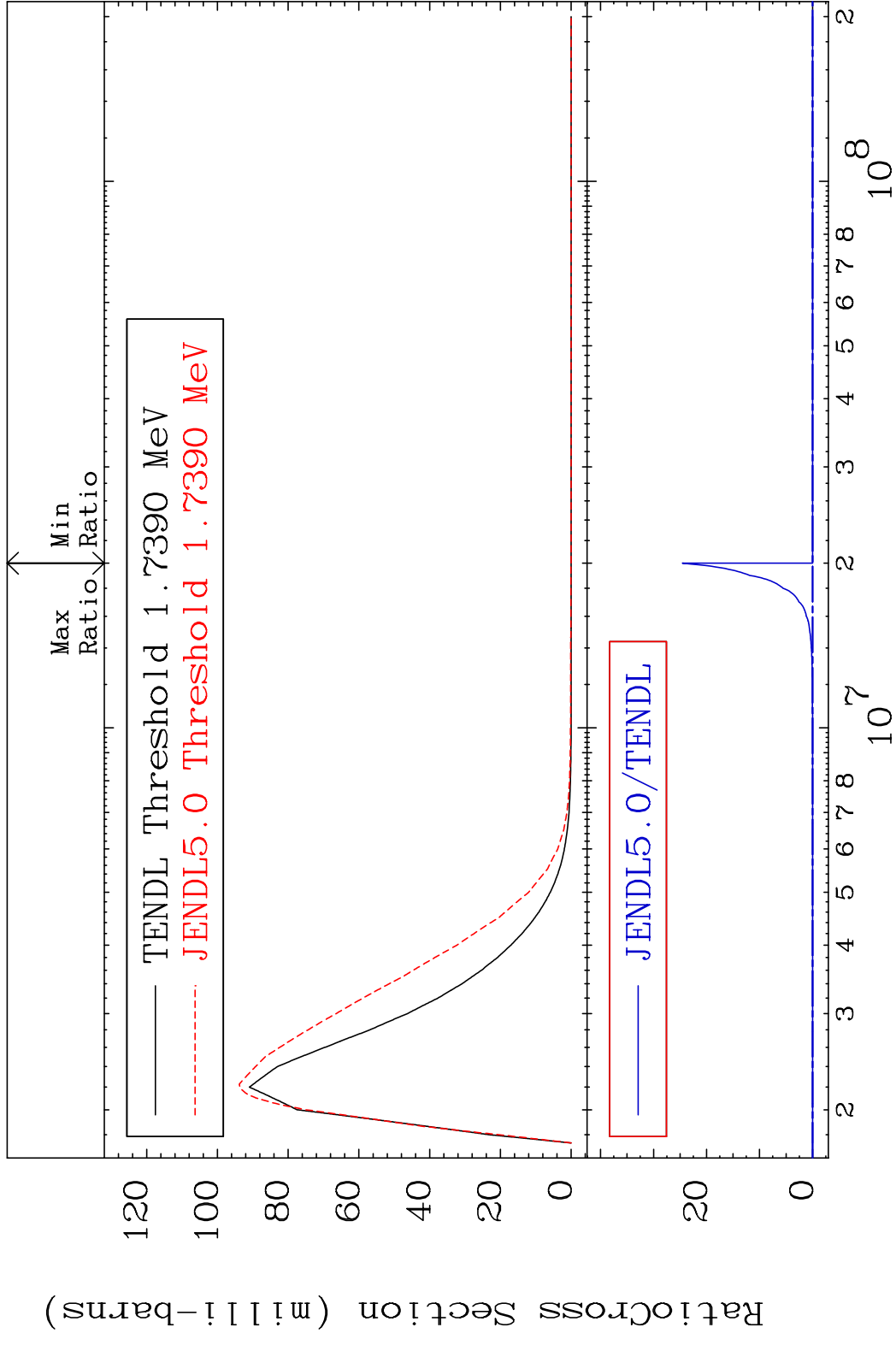
MAT 3919 MT= 66 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



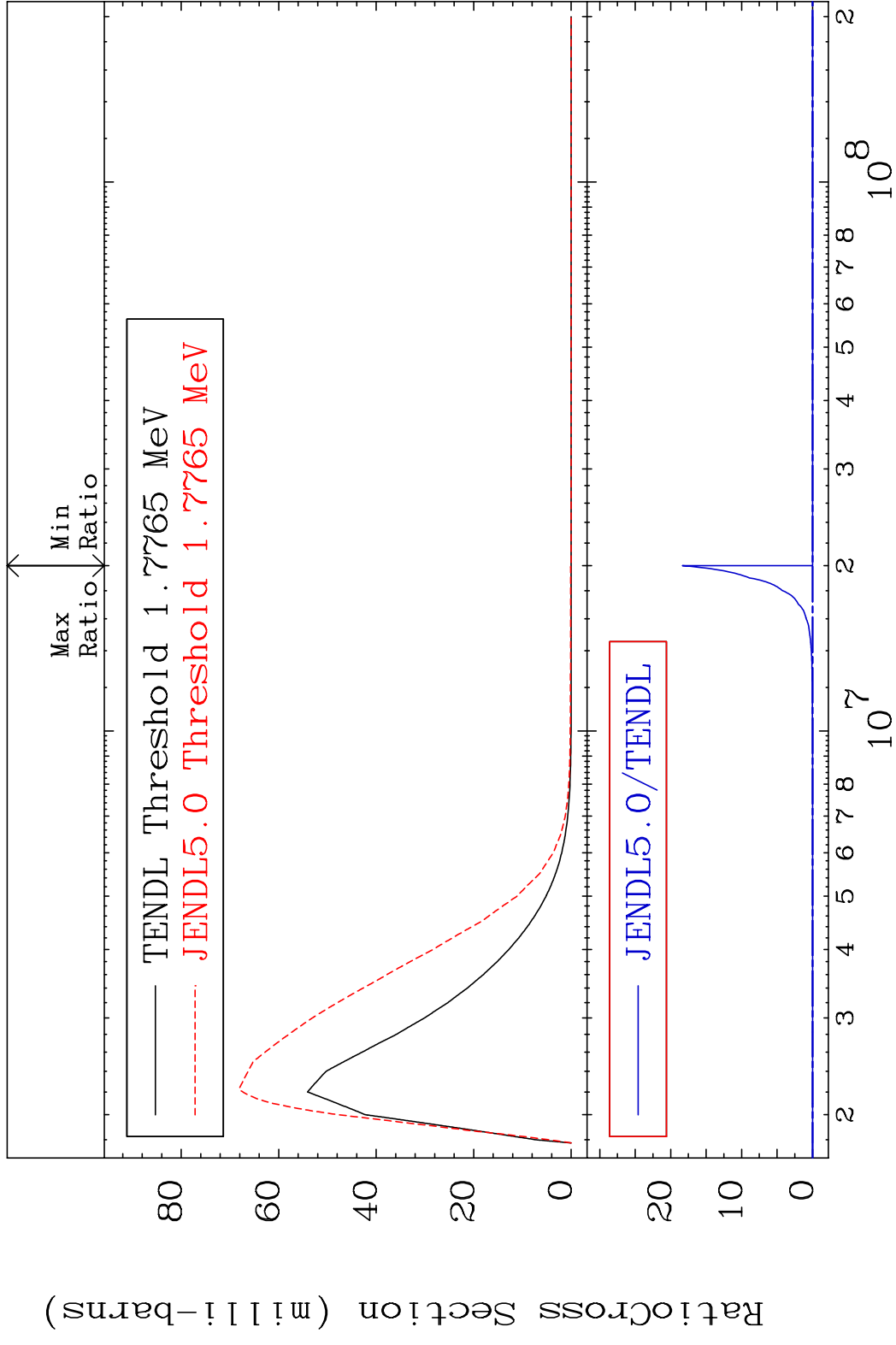
MAT 3919 MT= 67 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



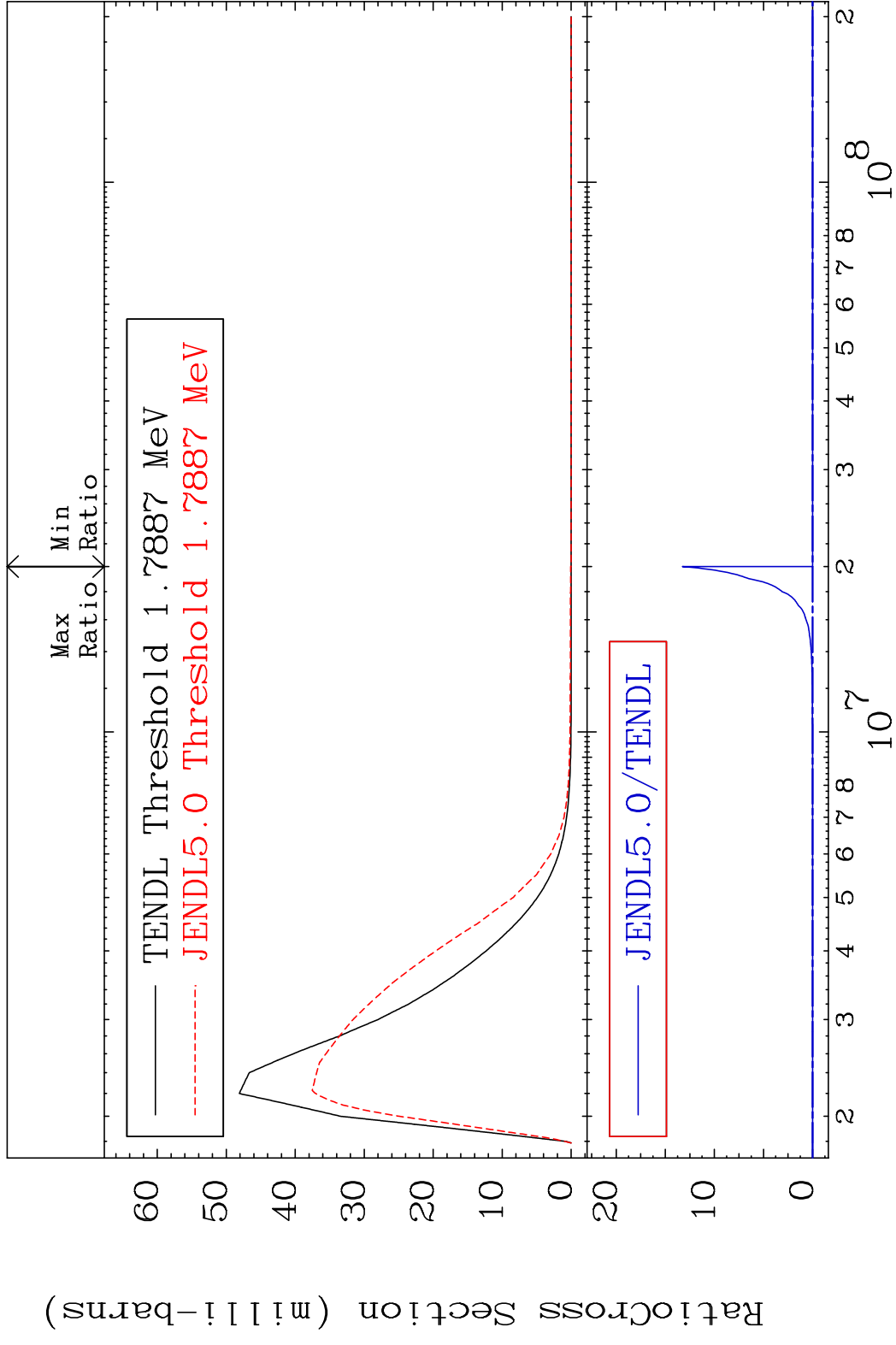
MAT 3919 MT= 68 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



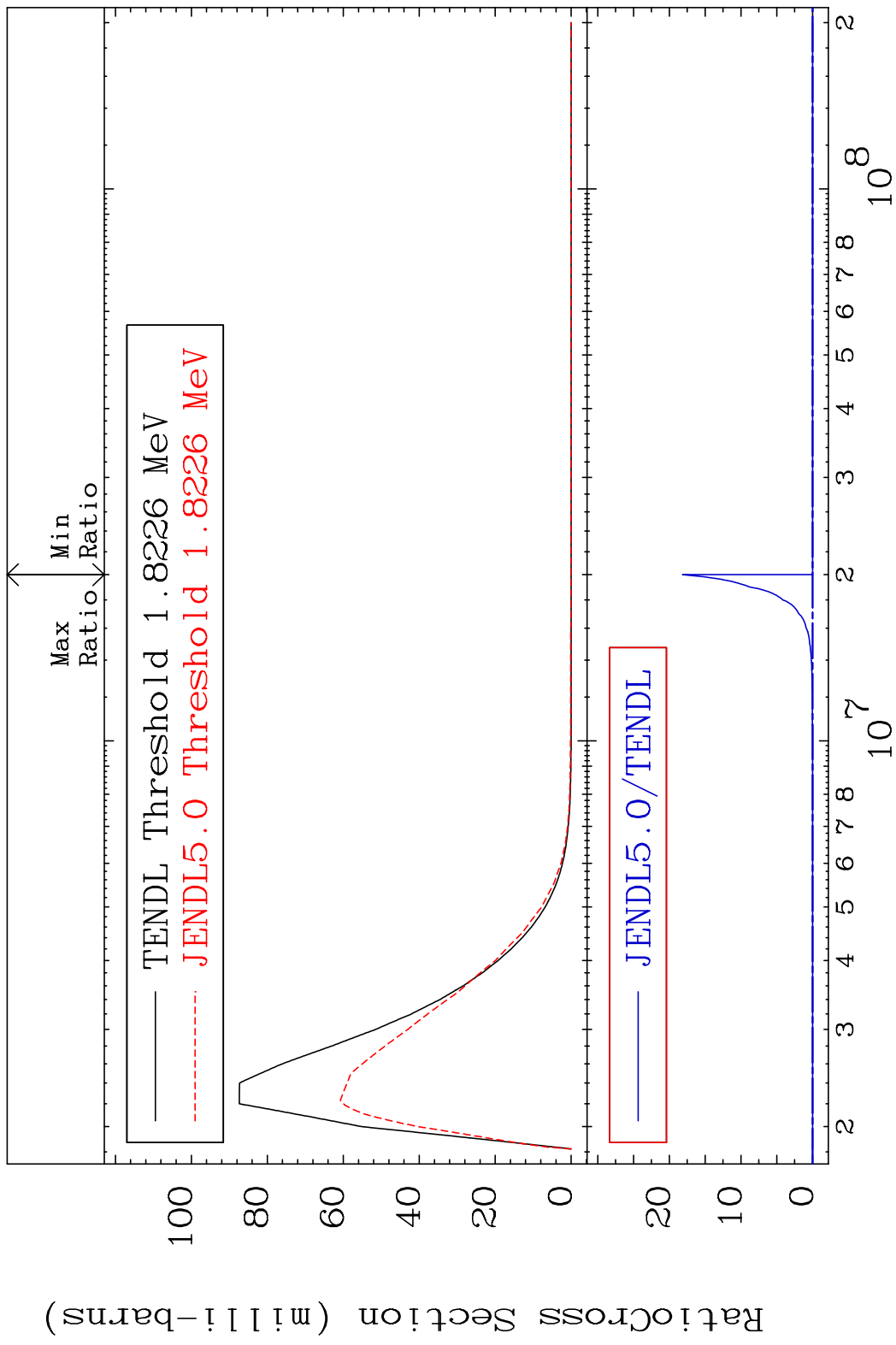
MAT 3919 MT= 69 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



MAT 3919 MT= 70 (n,n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %

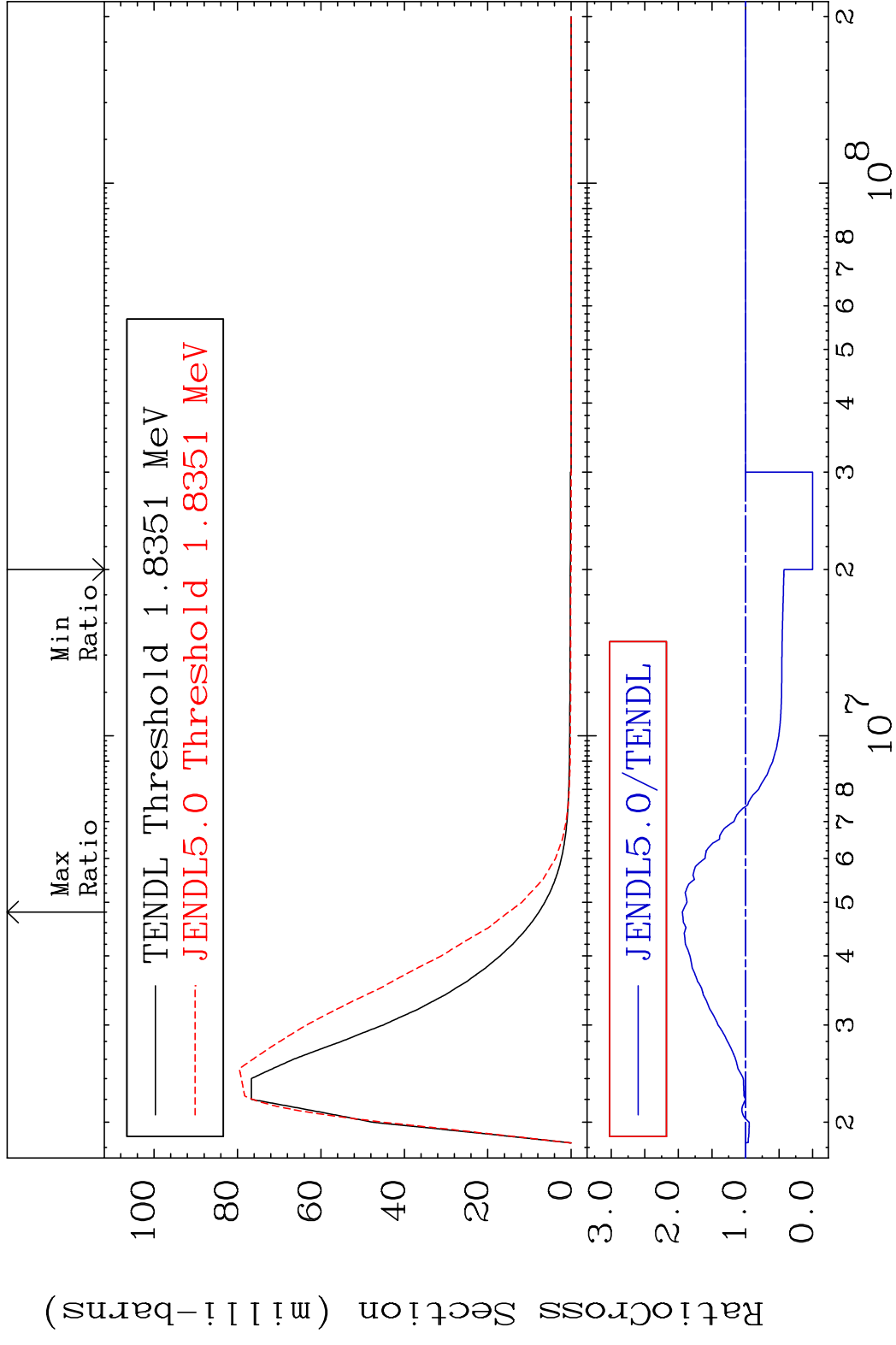


MAT 3919 MT= 71 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



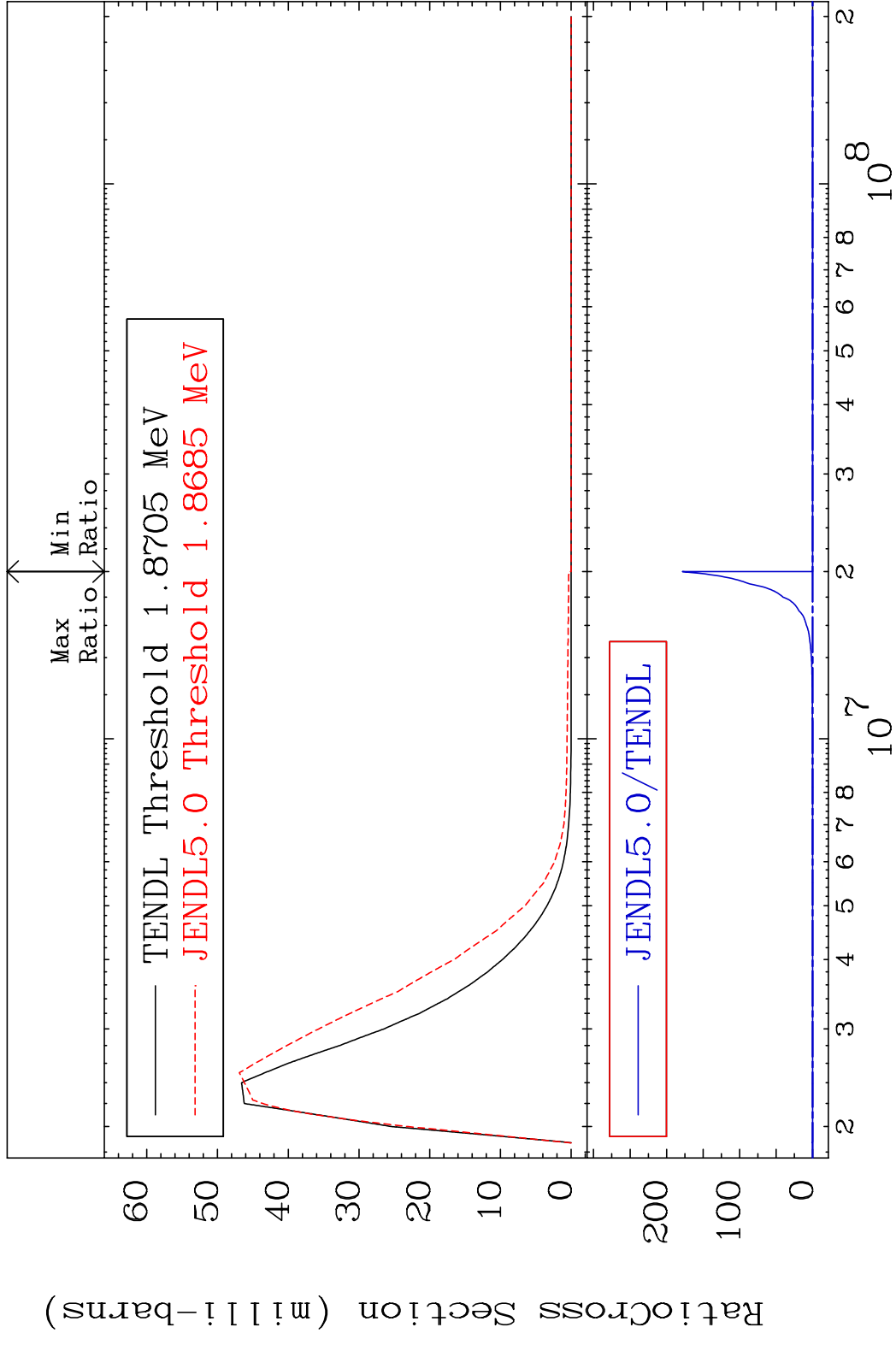
30 Incident Energy (eV) 39-Y -87

MAT 3919 MT= 72 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 94.09 %

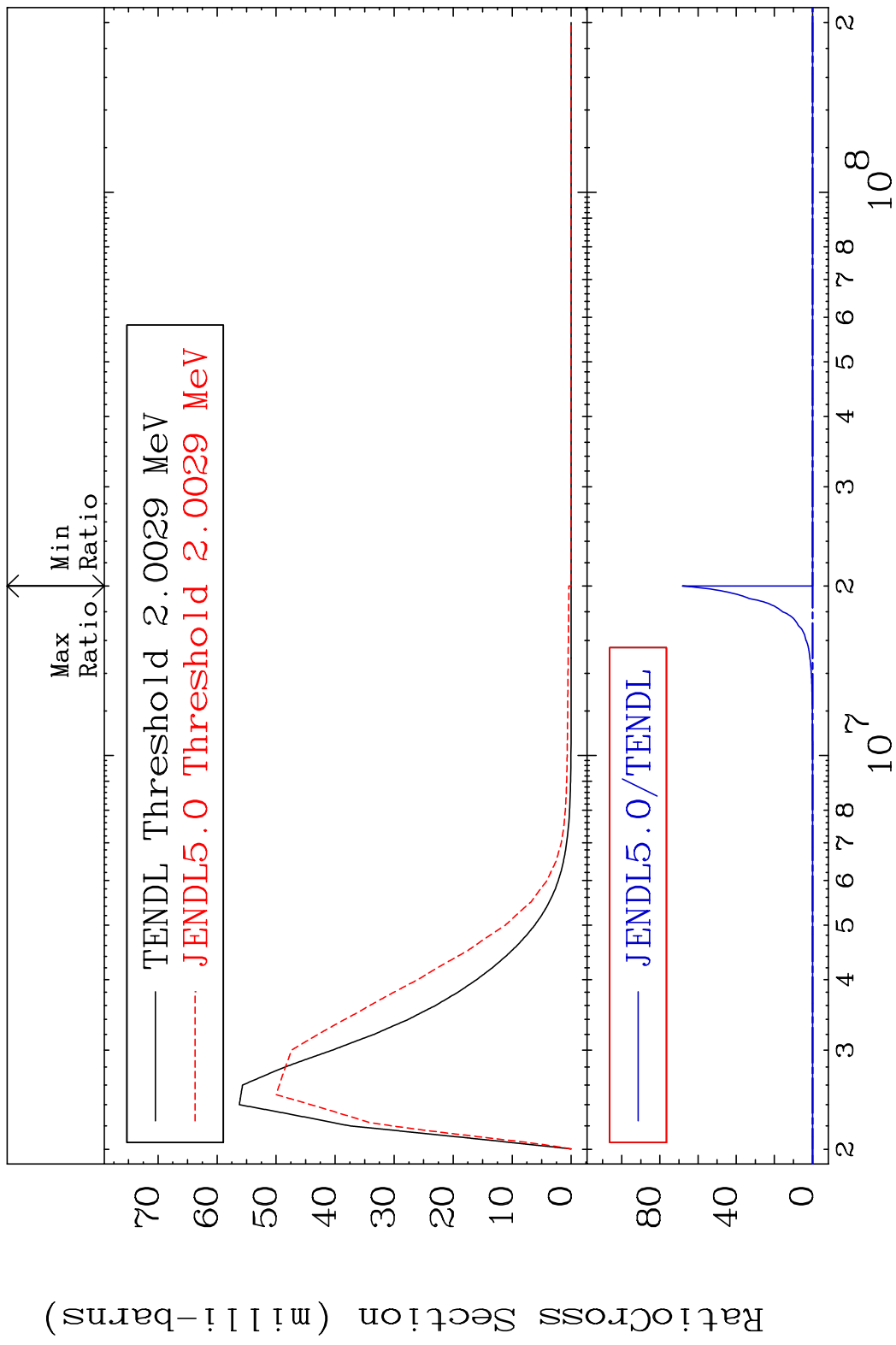




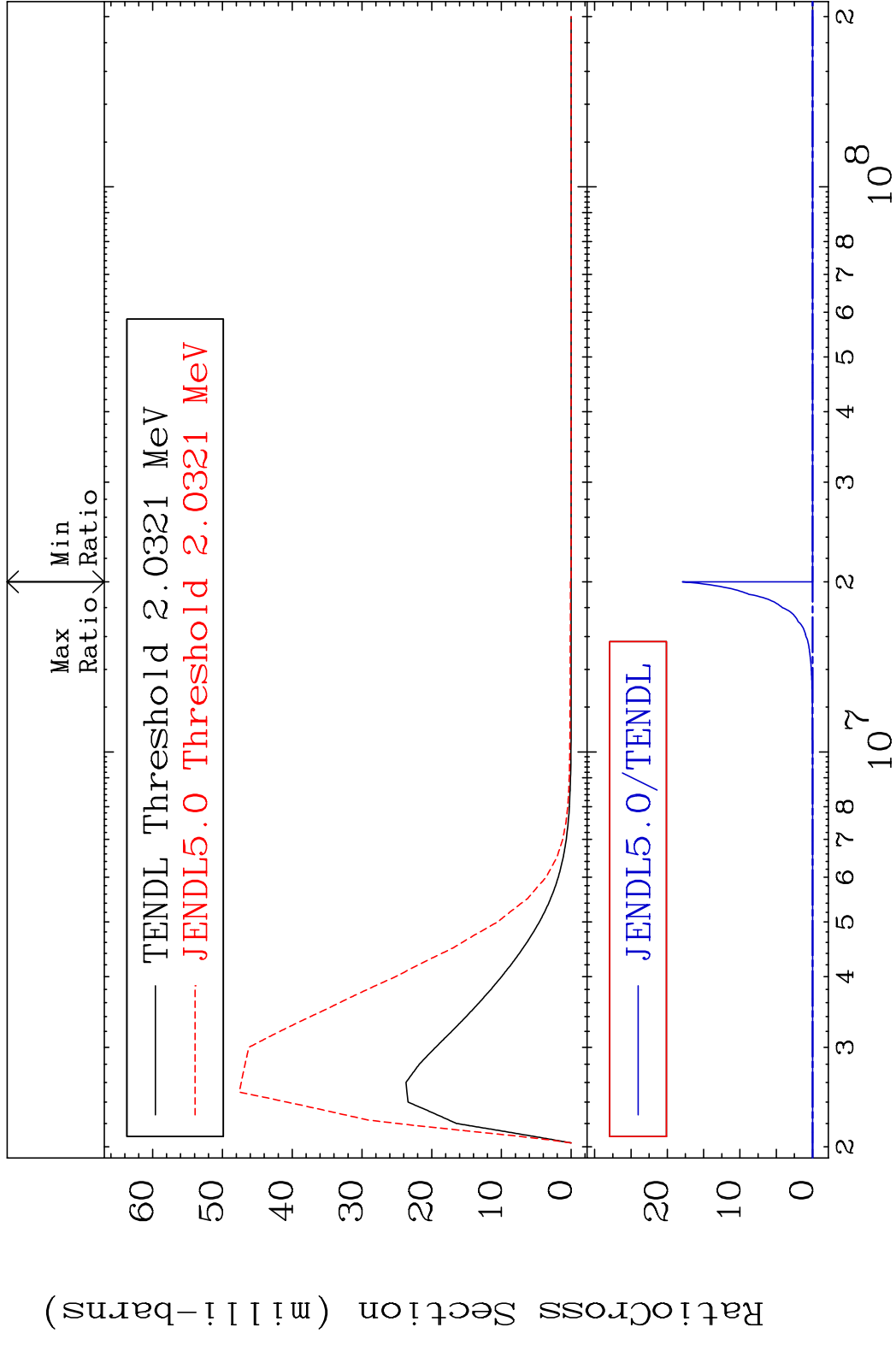
MAT 3919 MT= 73 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



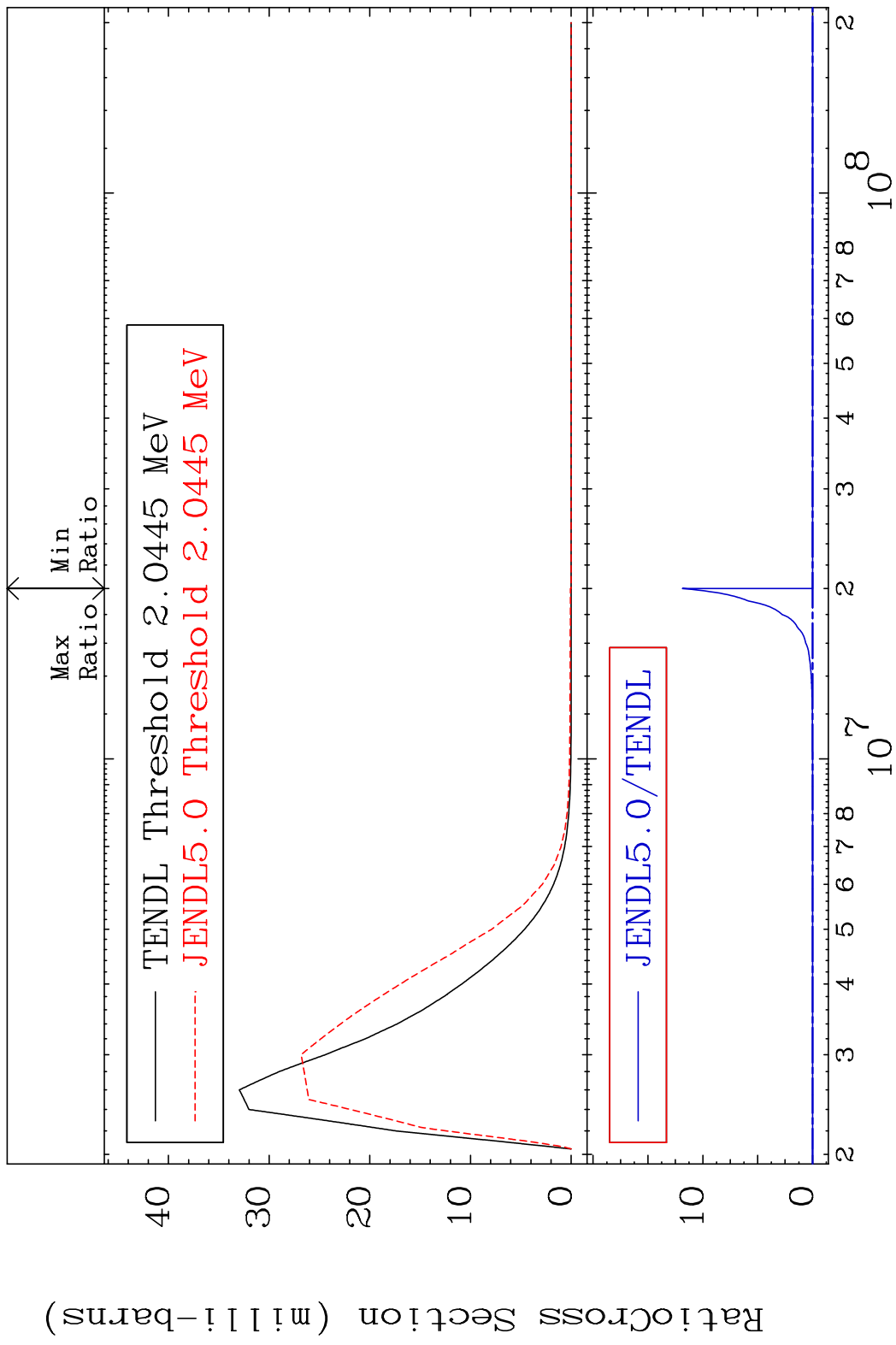
MAT 3919 MT= 74 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



MAT 3919 MT= 75 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %

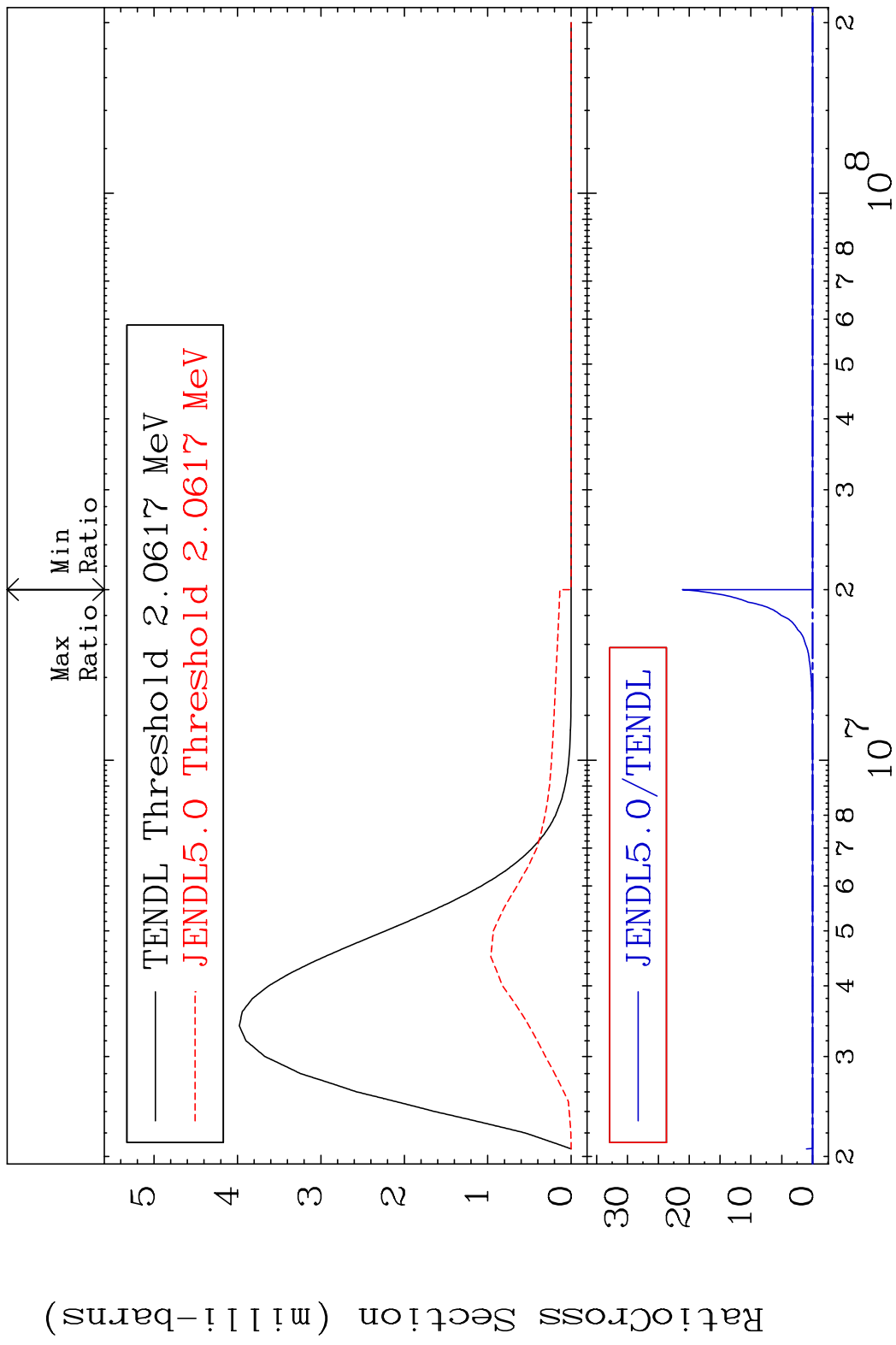


MAT 3919 MT= 76 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %

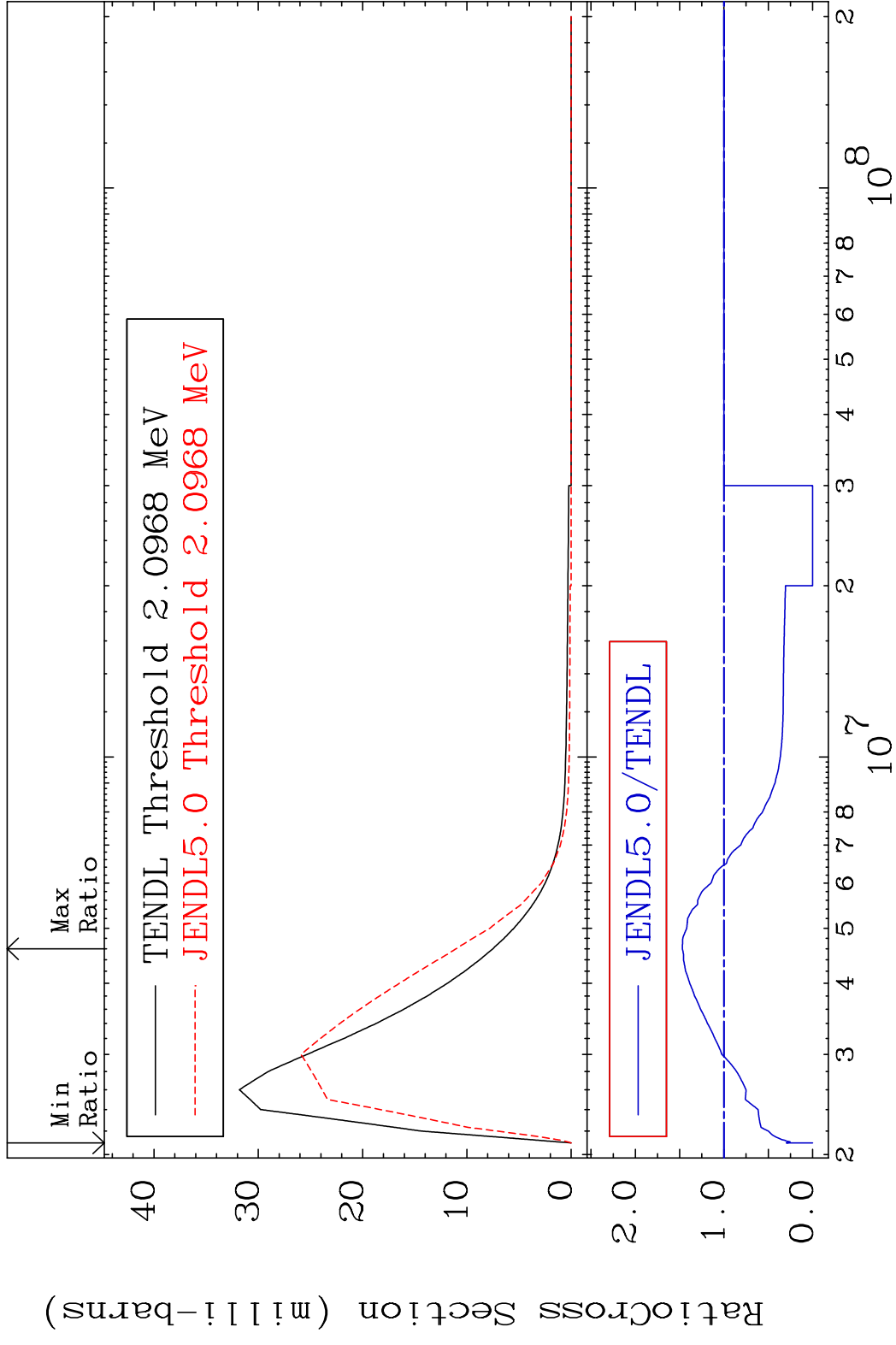


35 Incident Energy (eV) 39-Y -87

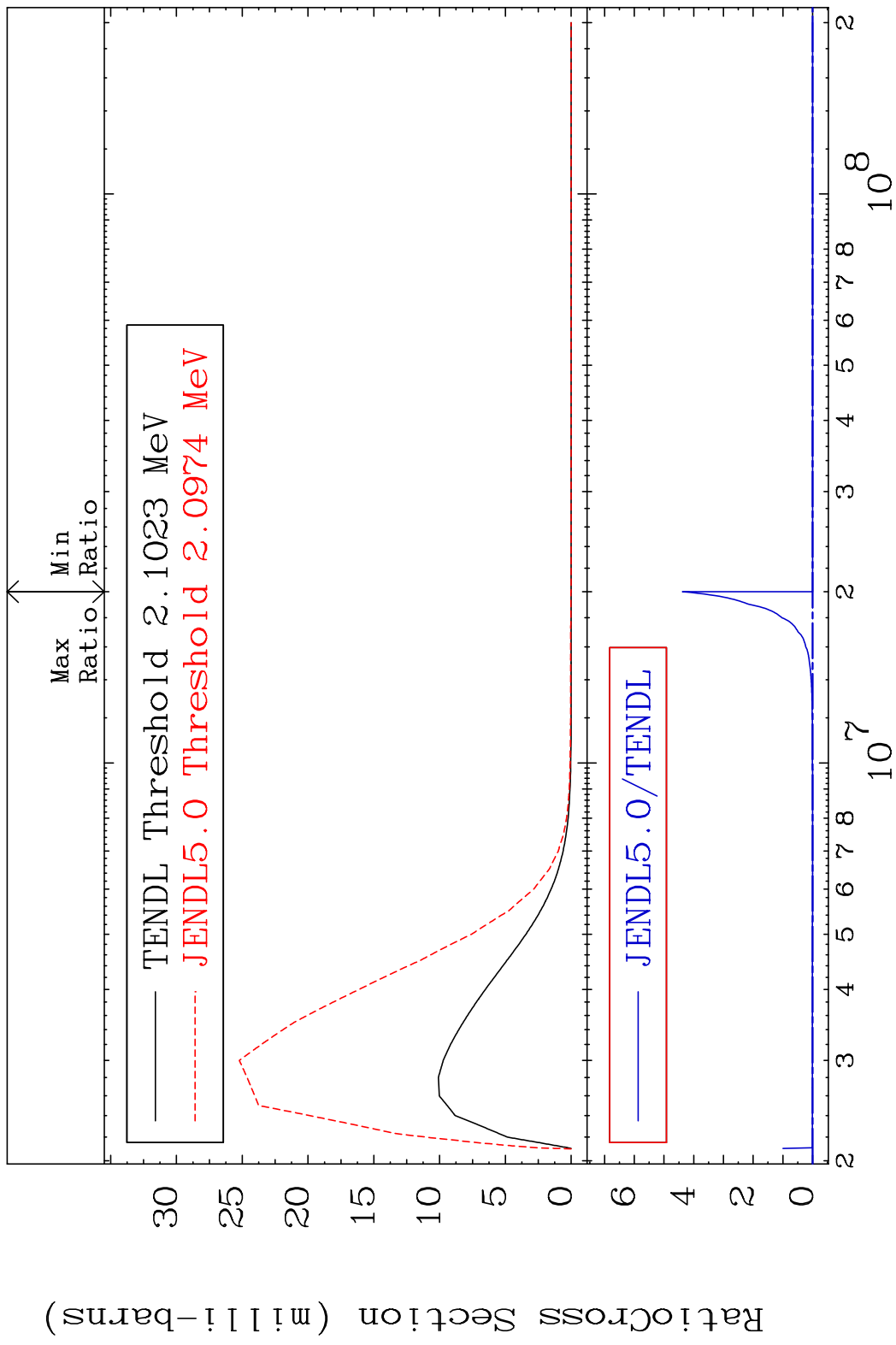
MAT 3919 MT= 77 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



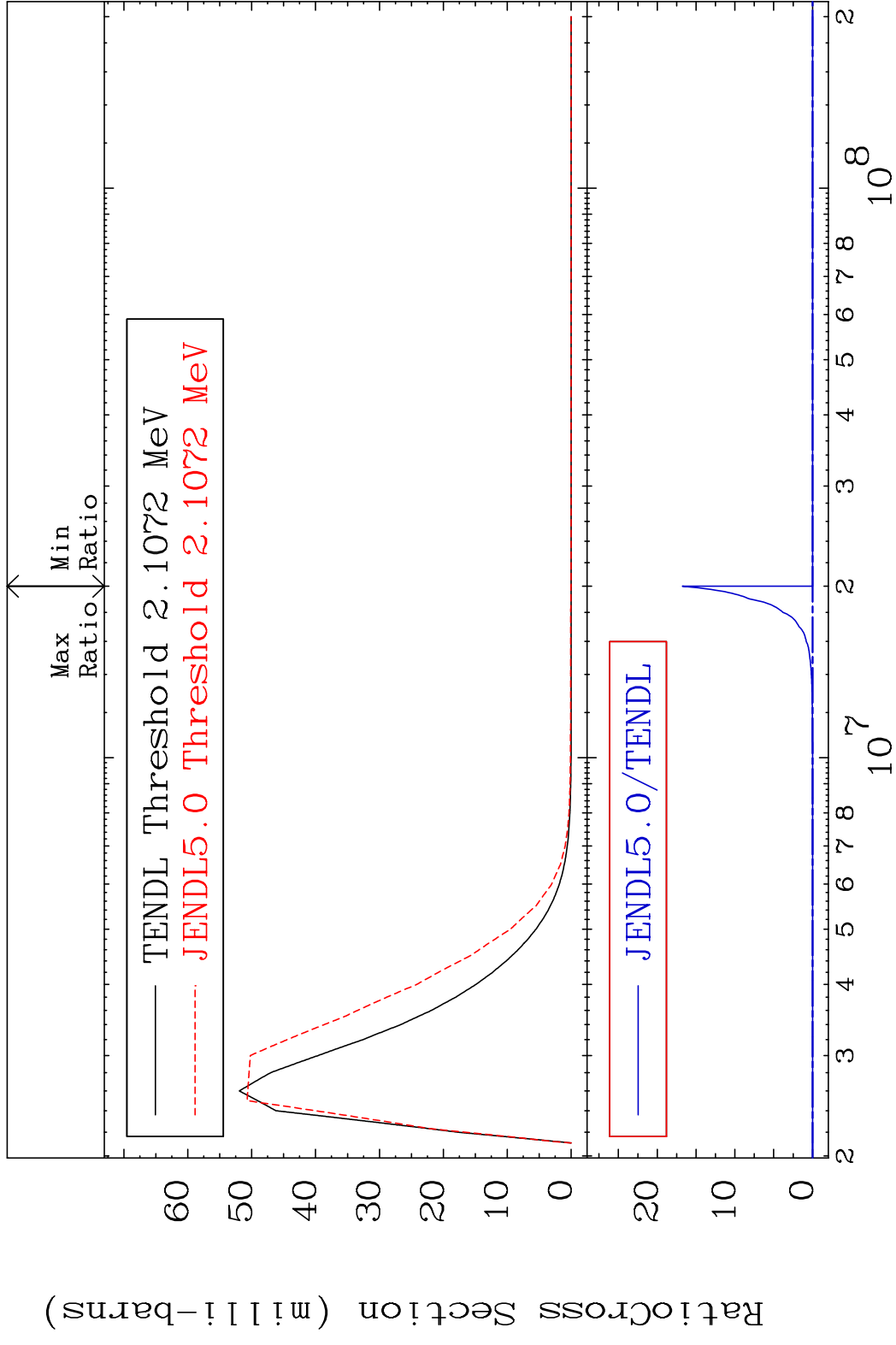
MAT 3919 MT= 78 (n,n') Level 39-Y -87  
 Cross Section -100.0 To 46.95 %



MAT 3919 MT= 79 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



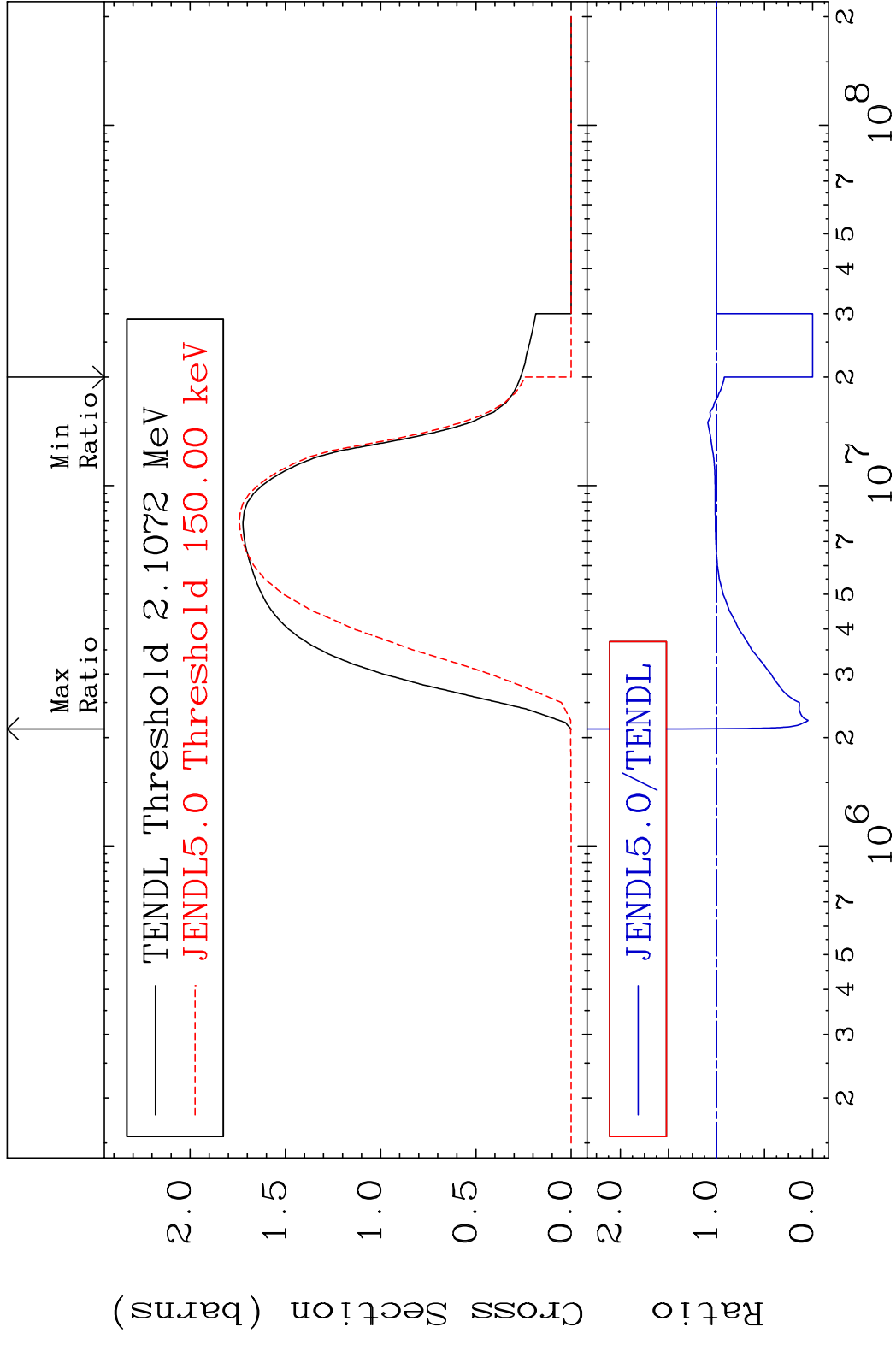
MAT 3919 MT= 80 (n, n') Level 39-Y -87  
 Cross Section -100.0 To 9999. %



39 Incident Energy (eV) 39-Y -87



MAT 3919 (n, n') Continuum 39-Y -87  
 Cross Section -100.0 To 35.53 %

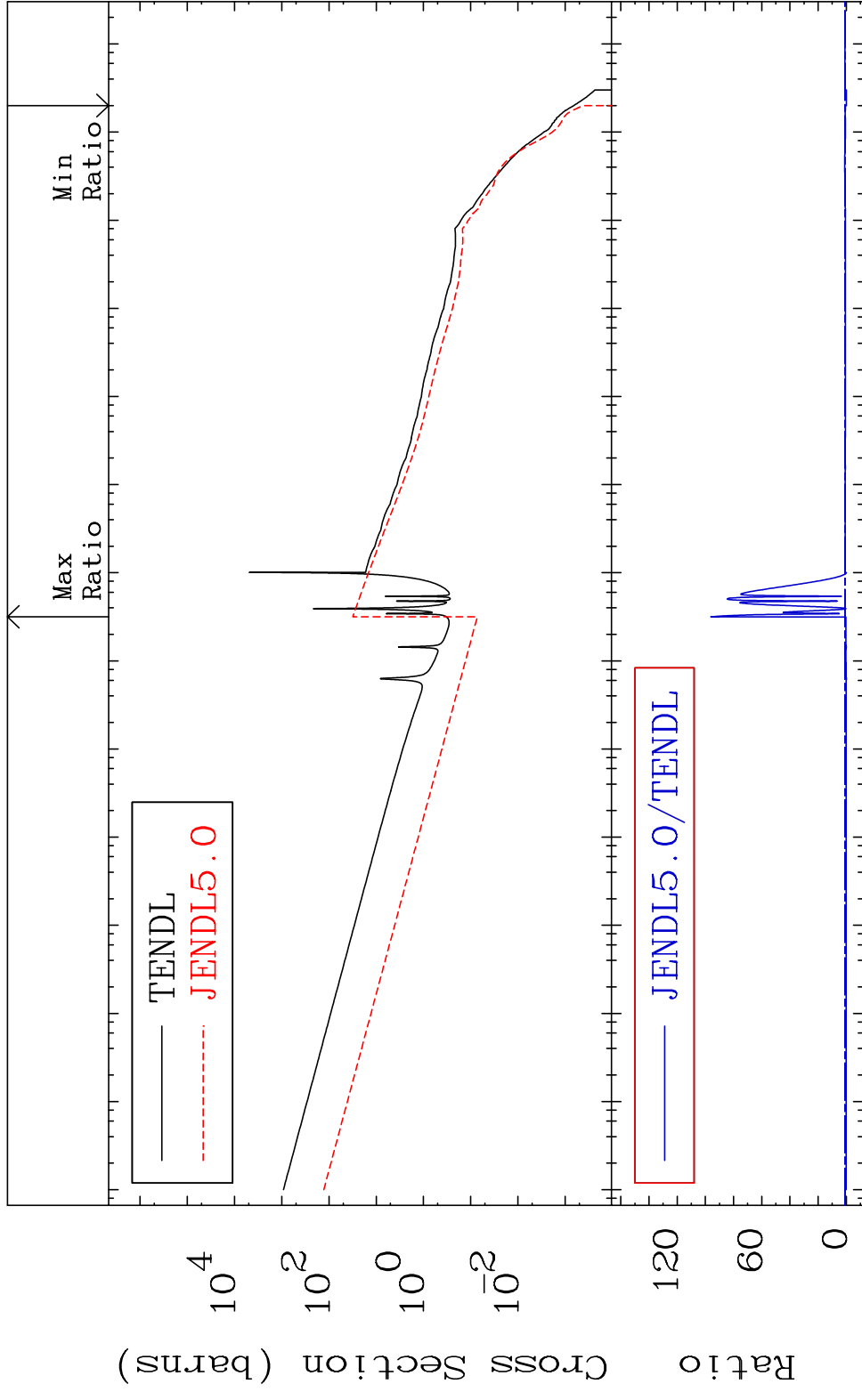


MAT 3919

39-Y -87

(n,  $\gamma$ )

Cross Section -100.0 To 9520. %



41

Incident Energy (eV)

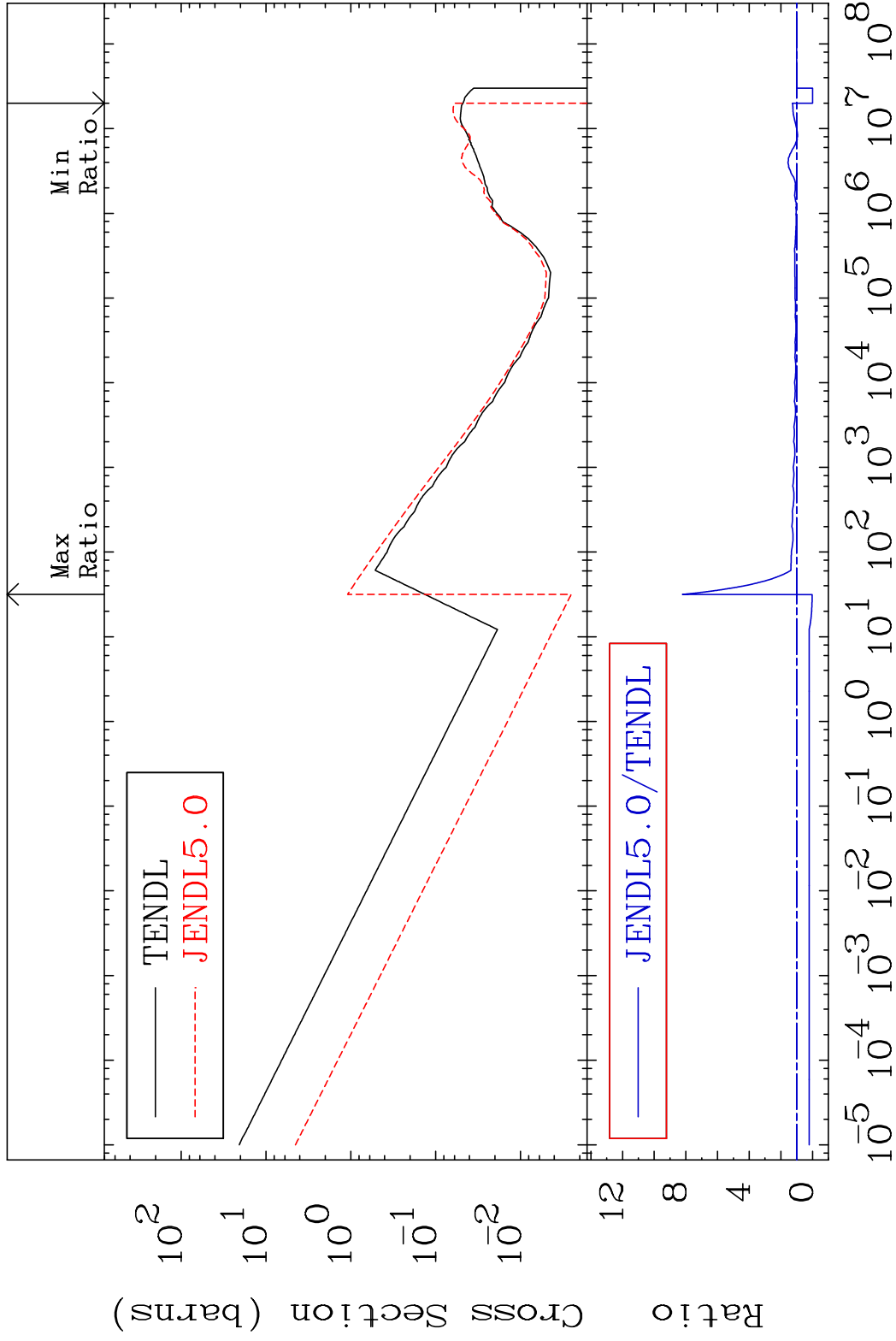
39-Y -87

MAT 3919

(n, p)

39-Y -87

Cross Section -100.0 To 722.3 %



42

Incident Energy (eV)

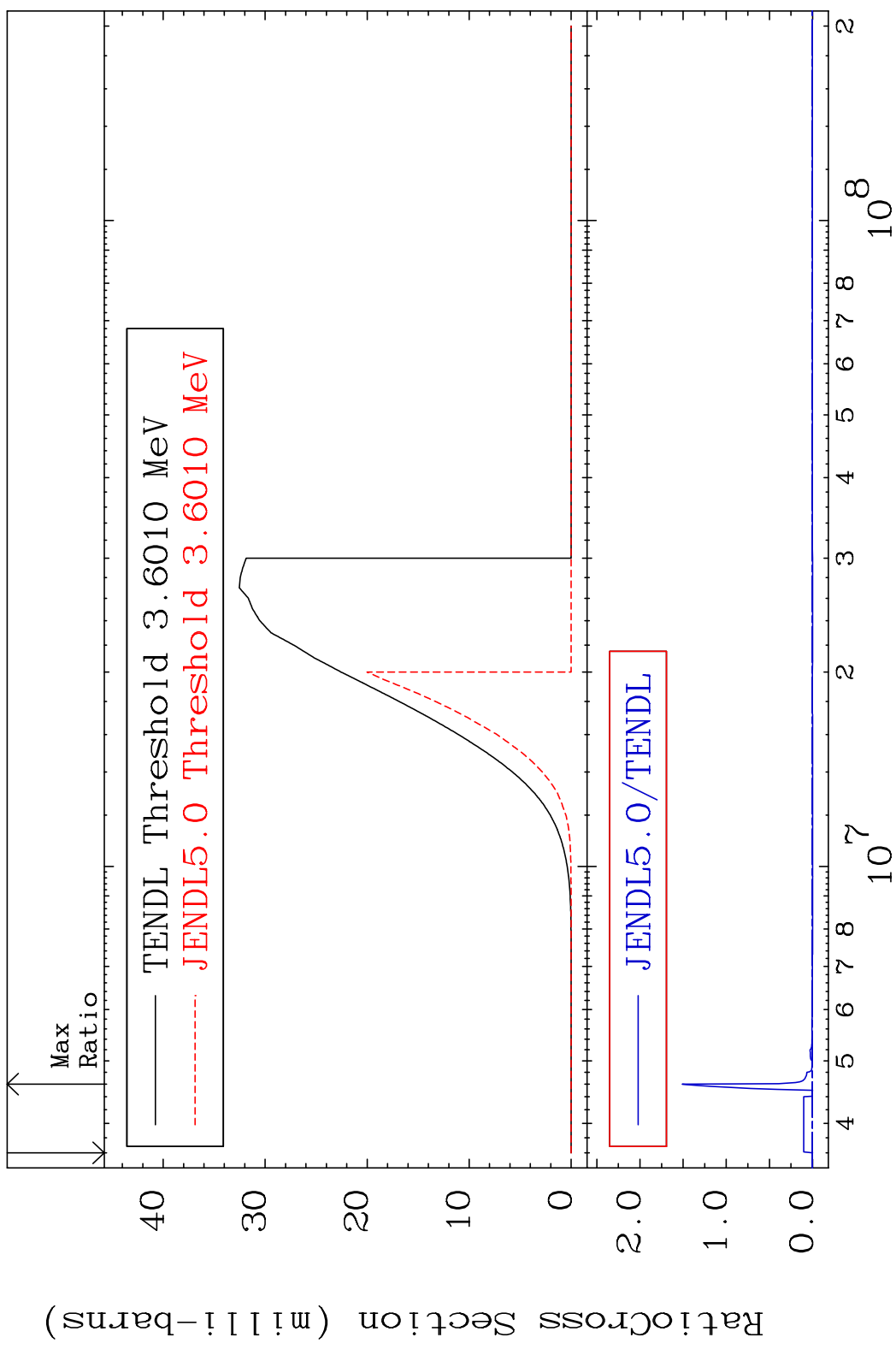
39-Y -87

MAT 3919

(n,d)

39-Y -87

Cross Section -100.0 To 9999. %

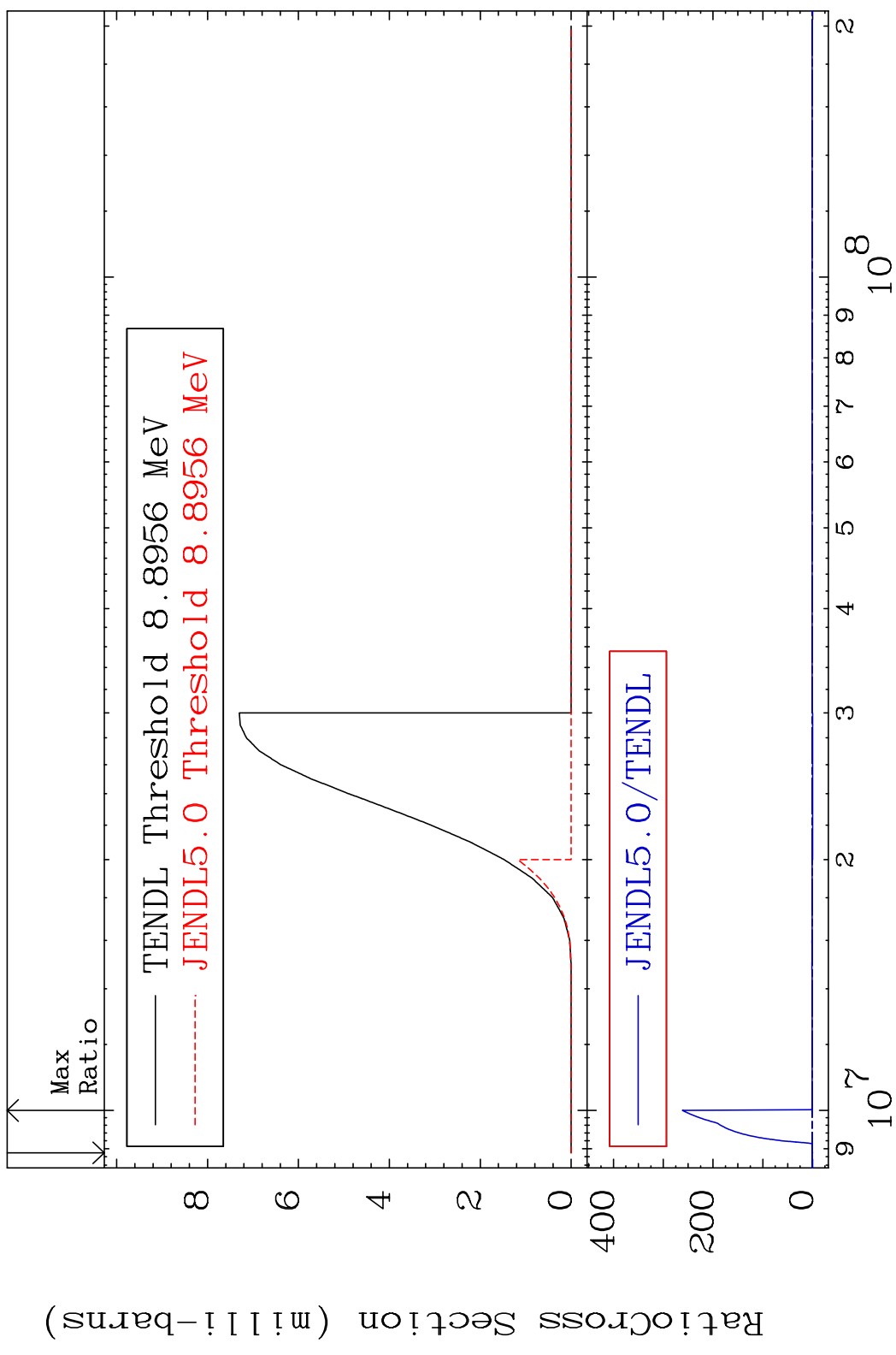


MAT 3919

(n, t)

39-Y -87

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

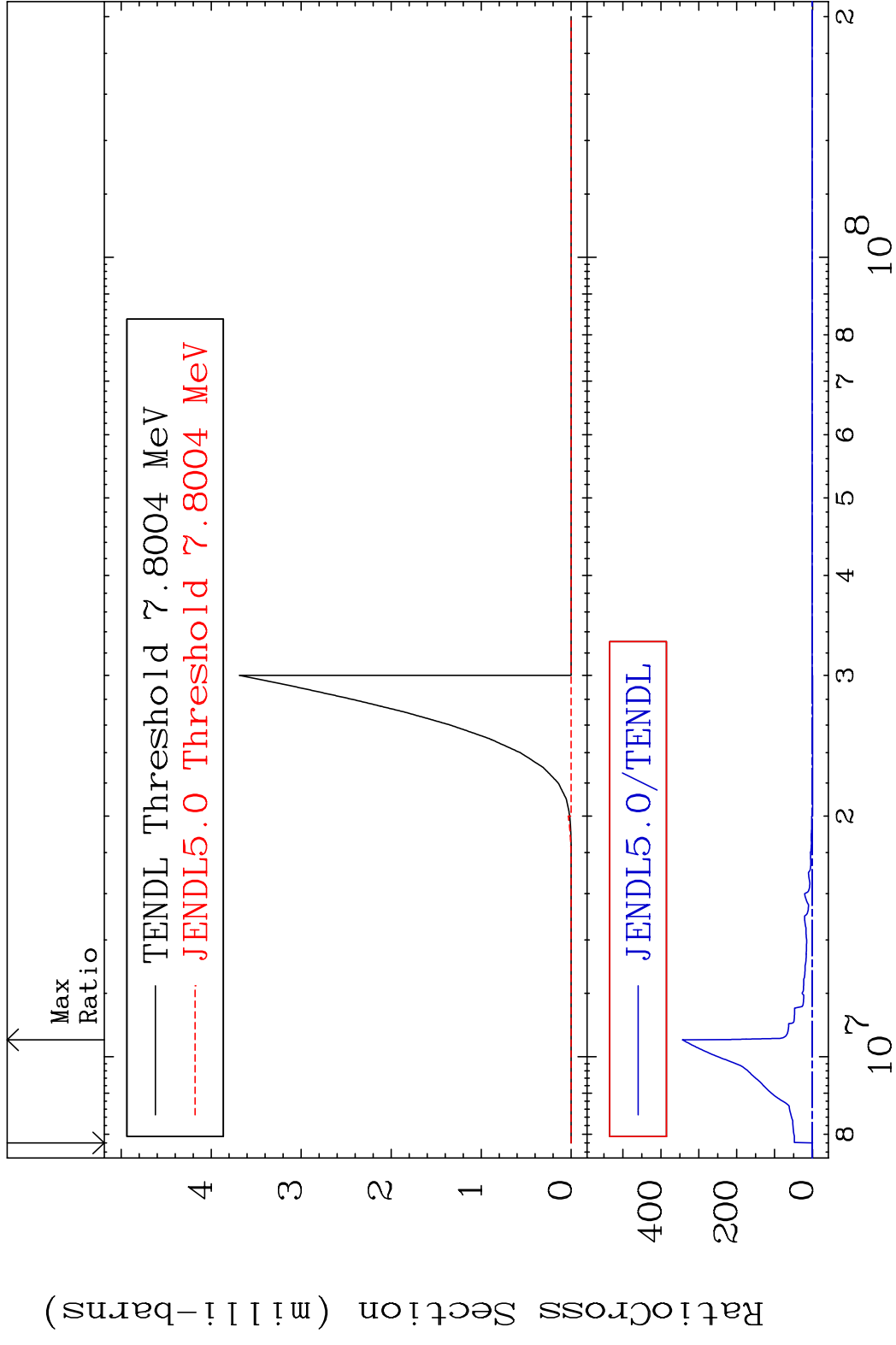
39-Y -87

MAT 3919

(n, He-3)

39-Y -87

Cross Section -100.0 To 9999. %

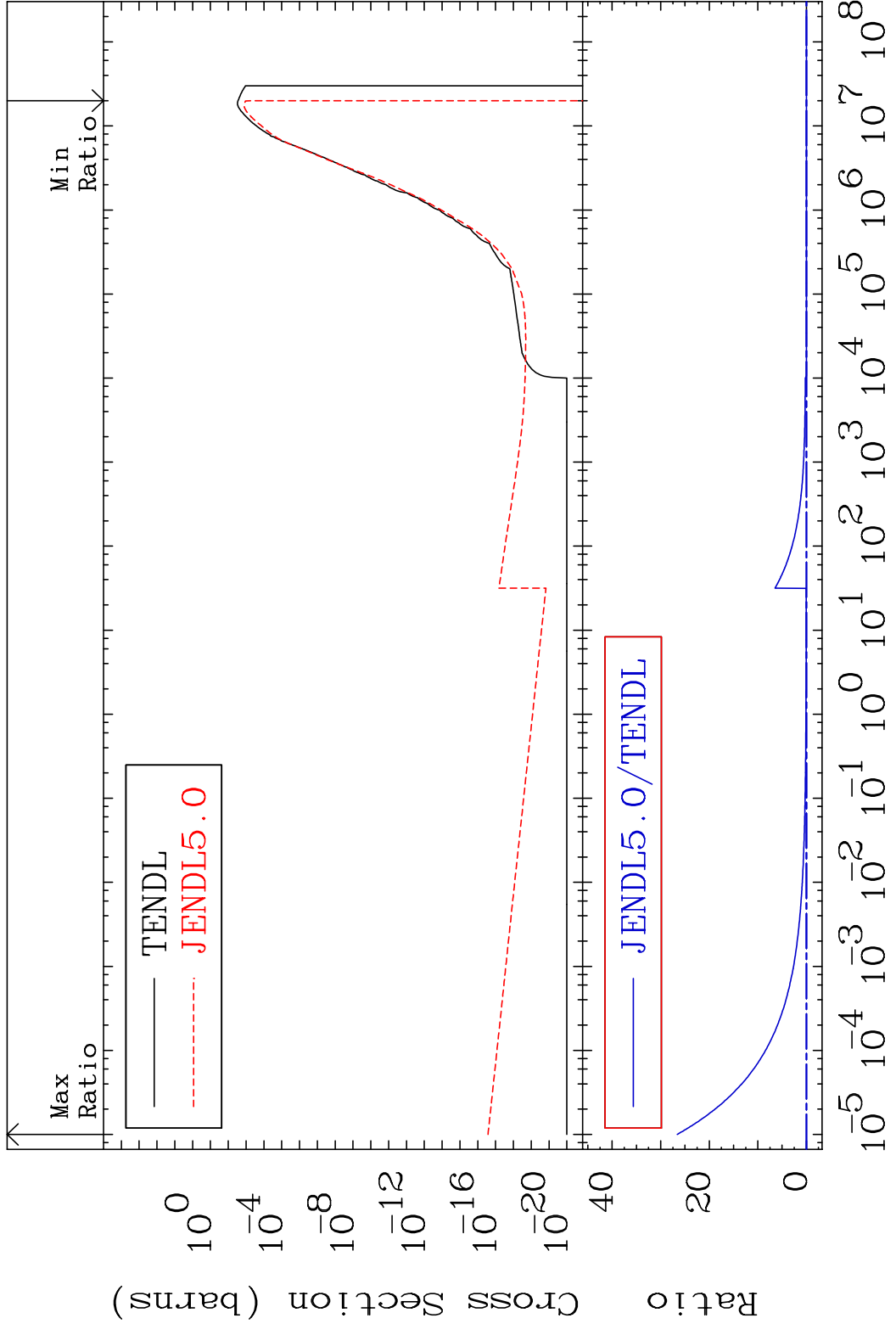


45

Incident Energy (eV)

39-Y -87

MAT 3919 (n,  $\alpha$ ) 39-Y -87  
 Cross Section -100.0 To 9999. %

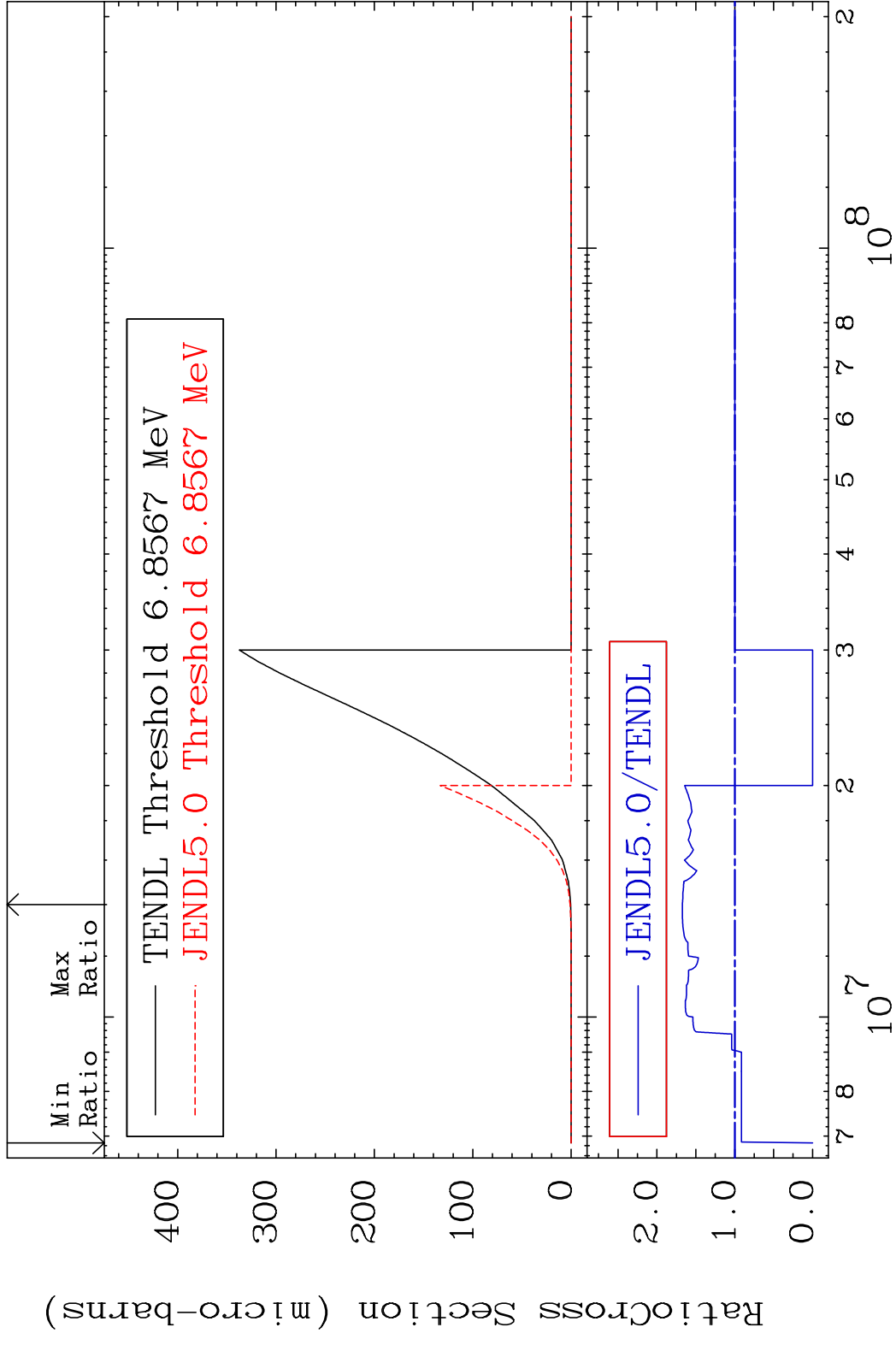


MAT 3919

(n,2p)

39-Y -87

Cross Section -100.0 To 67.32 %



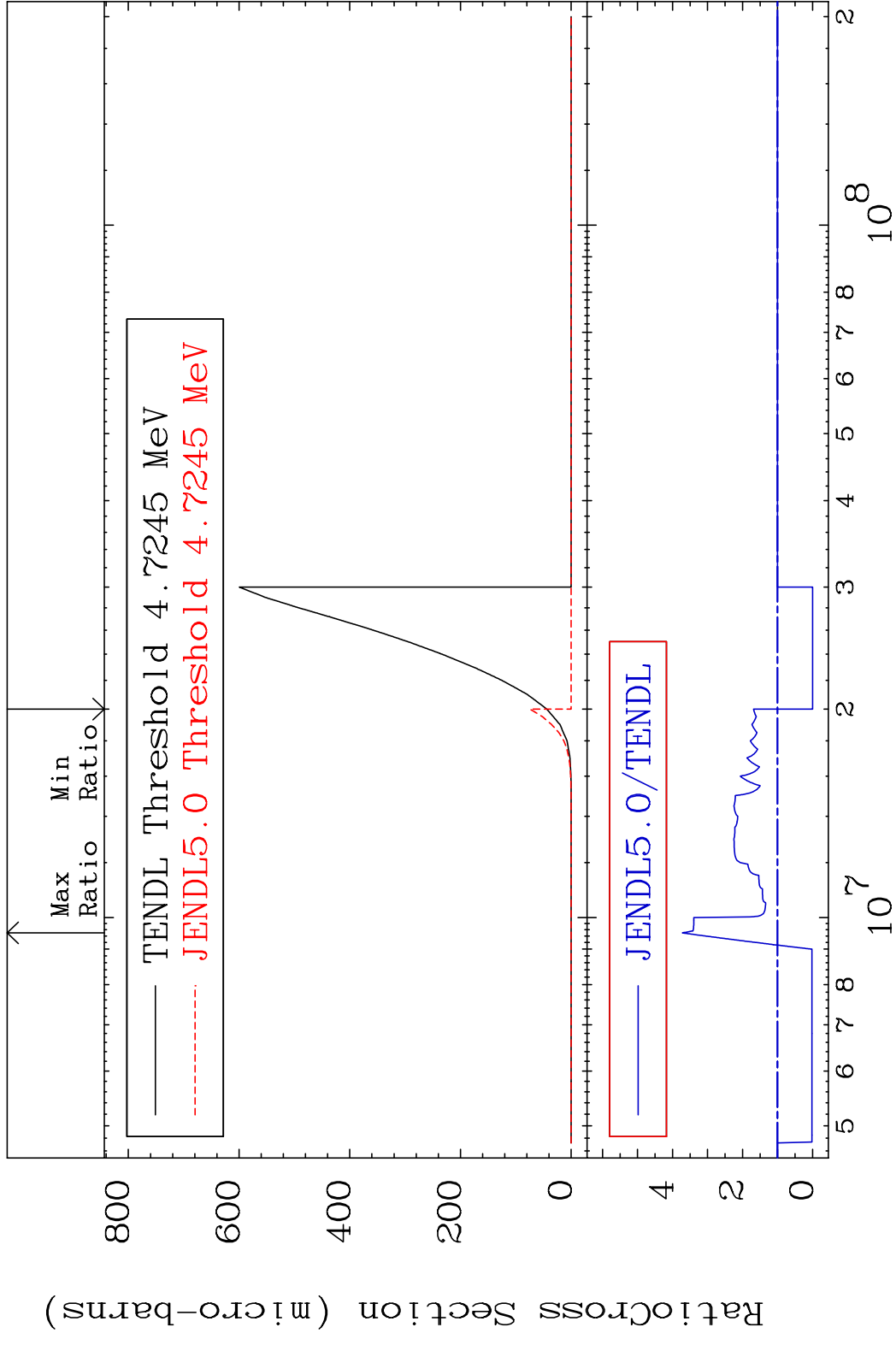
47

Incident Energy (eV)

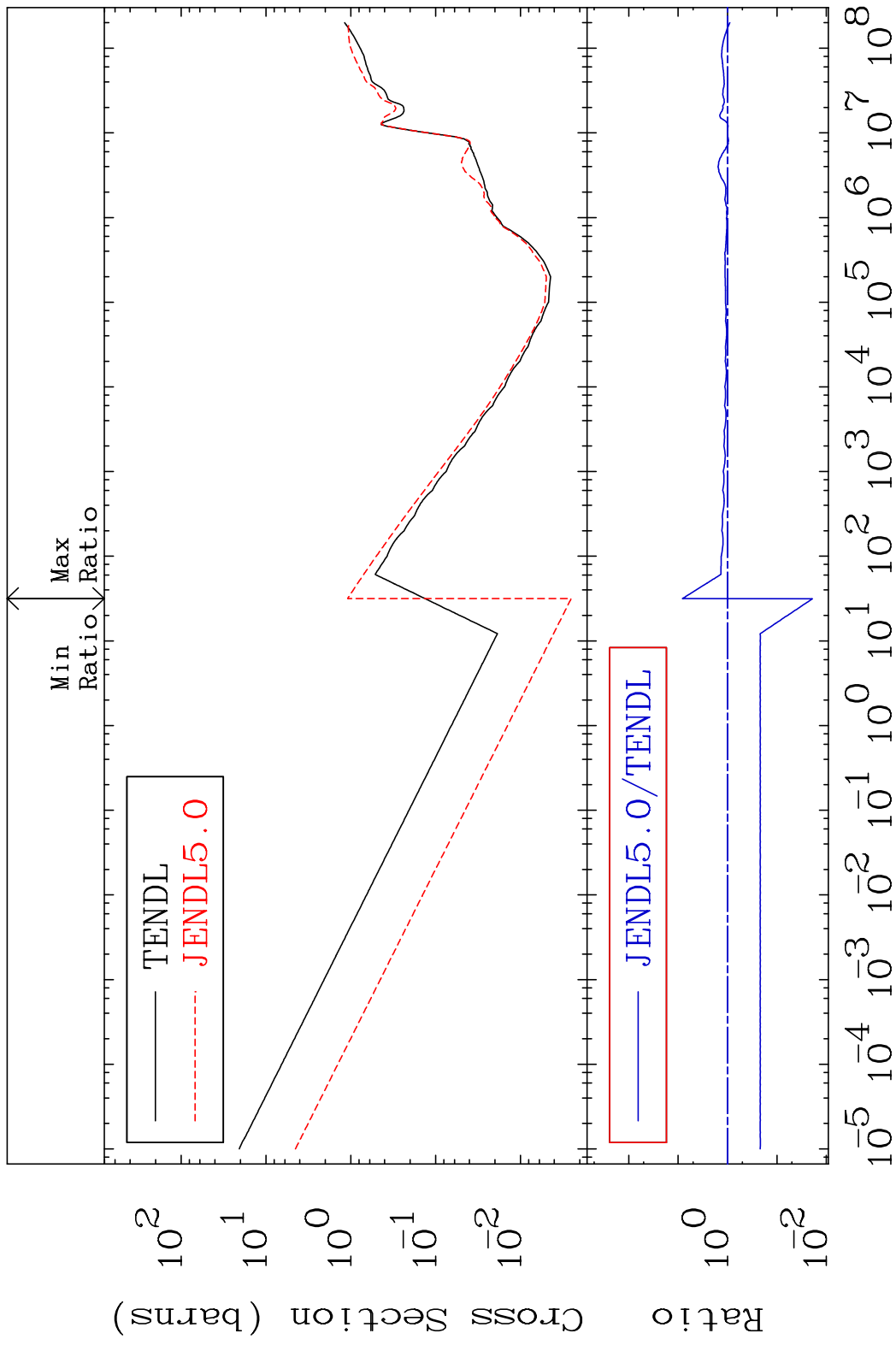
39-Y -87



MAT 3919 (n,p)  $\alpha$  39-Y -87  
 Cross Section -100.0 To 272.0 %

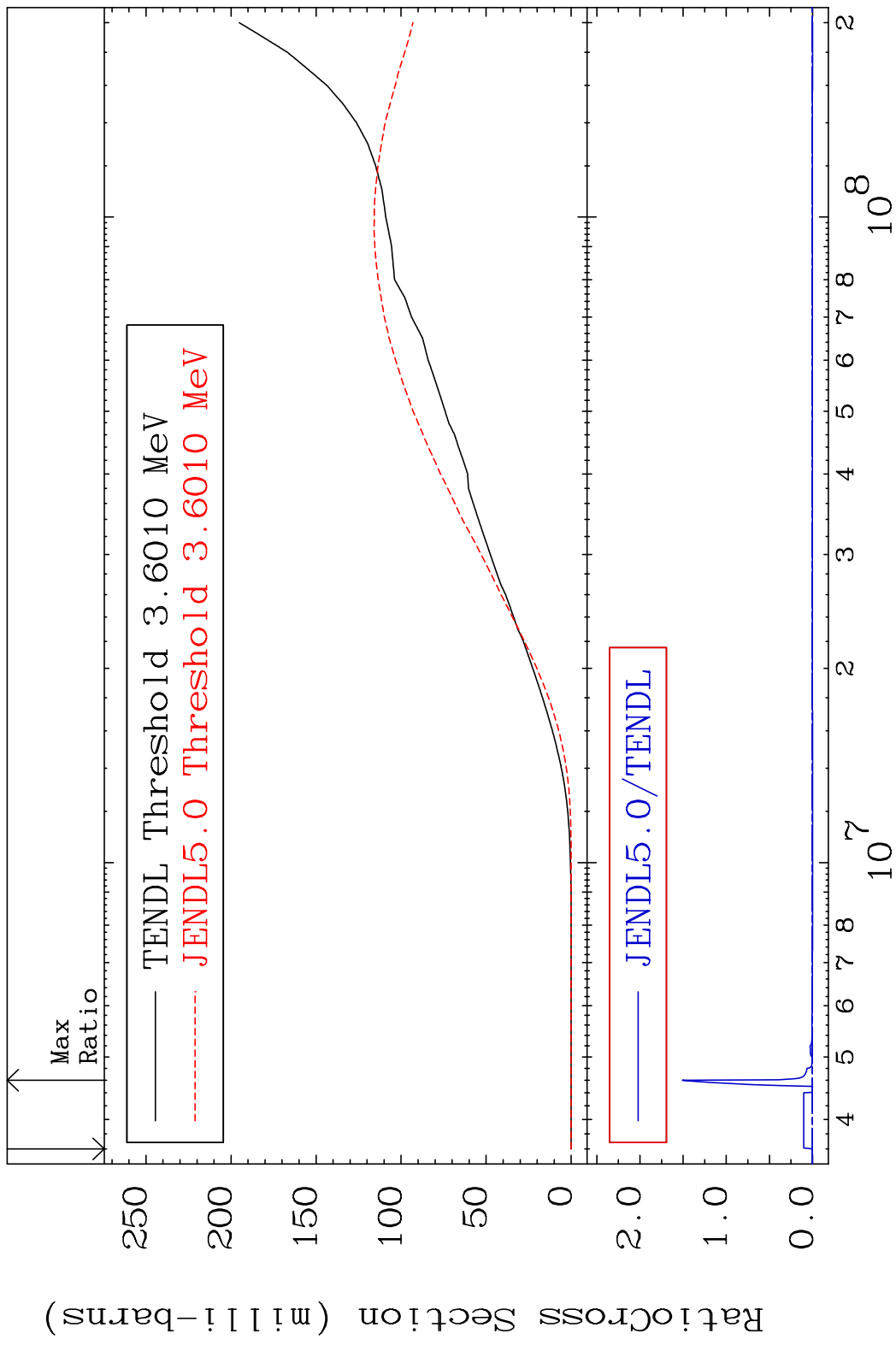


MAT 3919 Hydrogen Production 39-Y -87  
 Cross Section -98.10 To 722.3 %



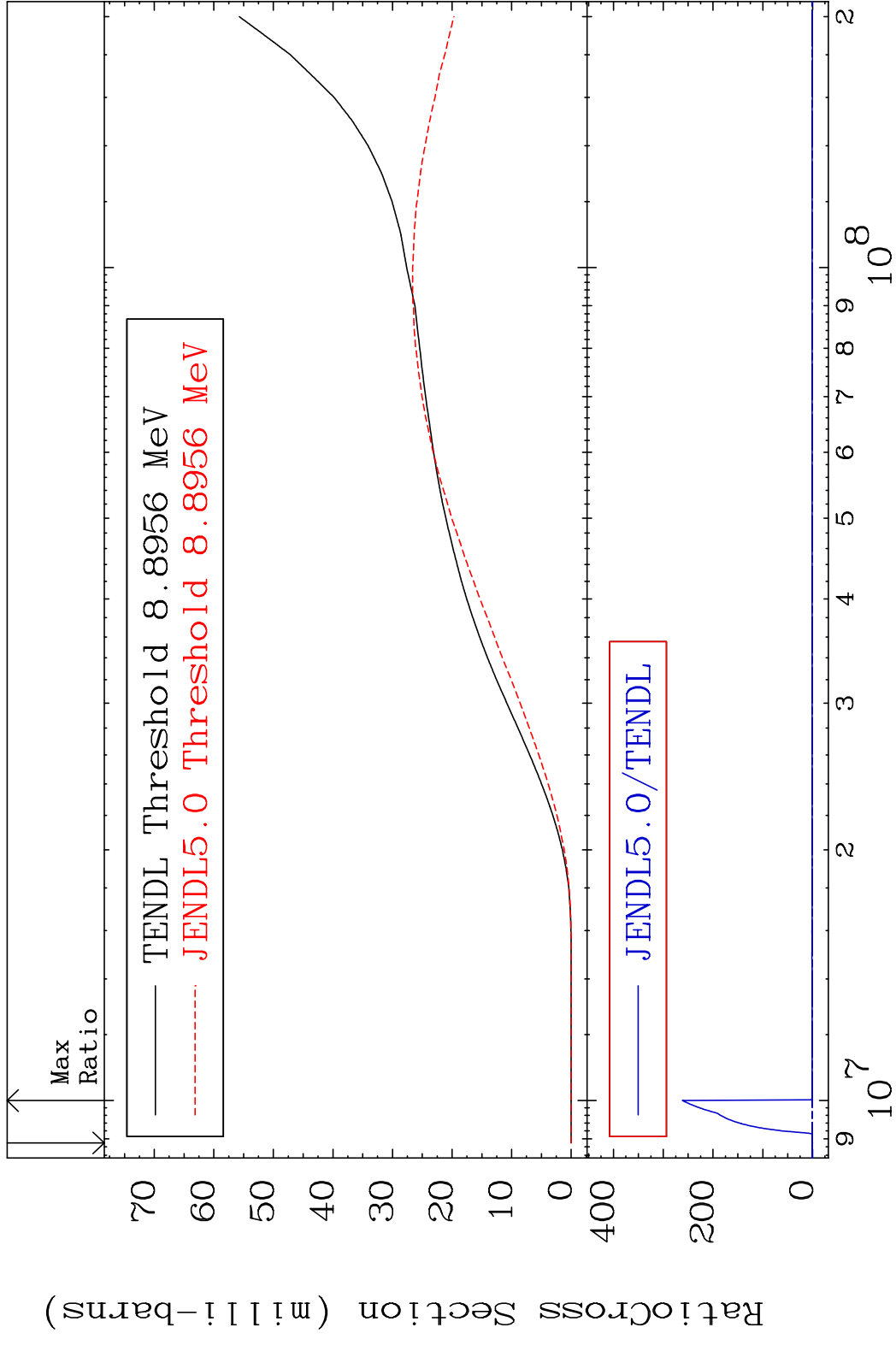
49 Incident Energy (eV) 39-Y -87

MAT 3919 Deuterium Production 39-Y -87  
 Cross Section -100.0 To 9999. %

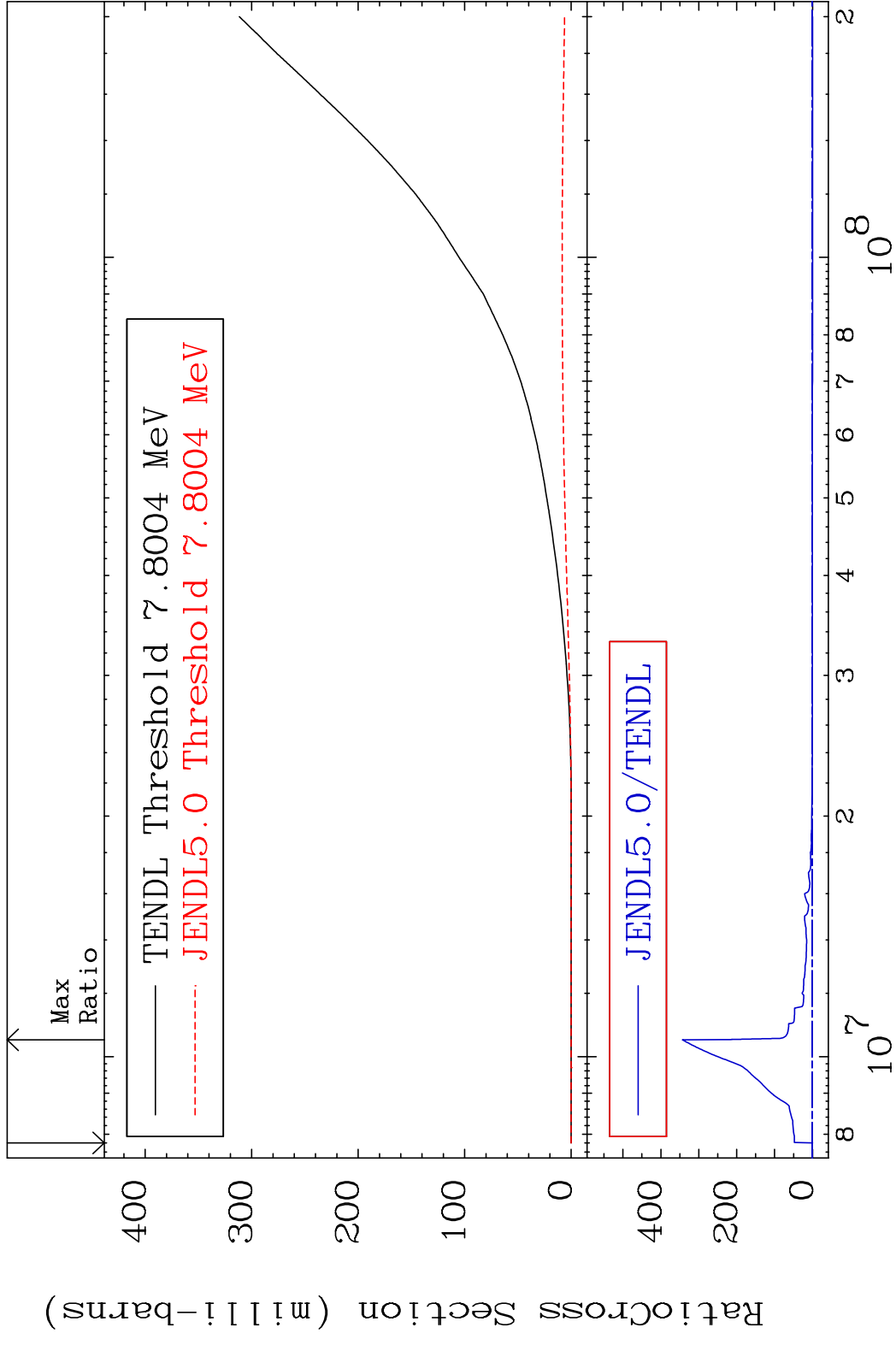


50 Incident Energy (eV) 39-Y -87

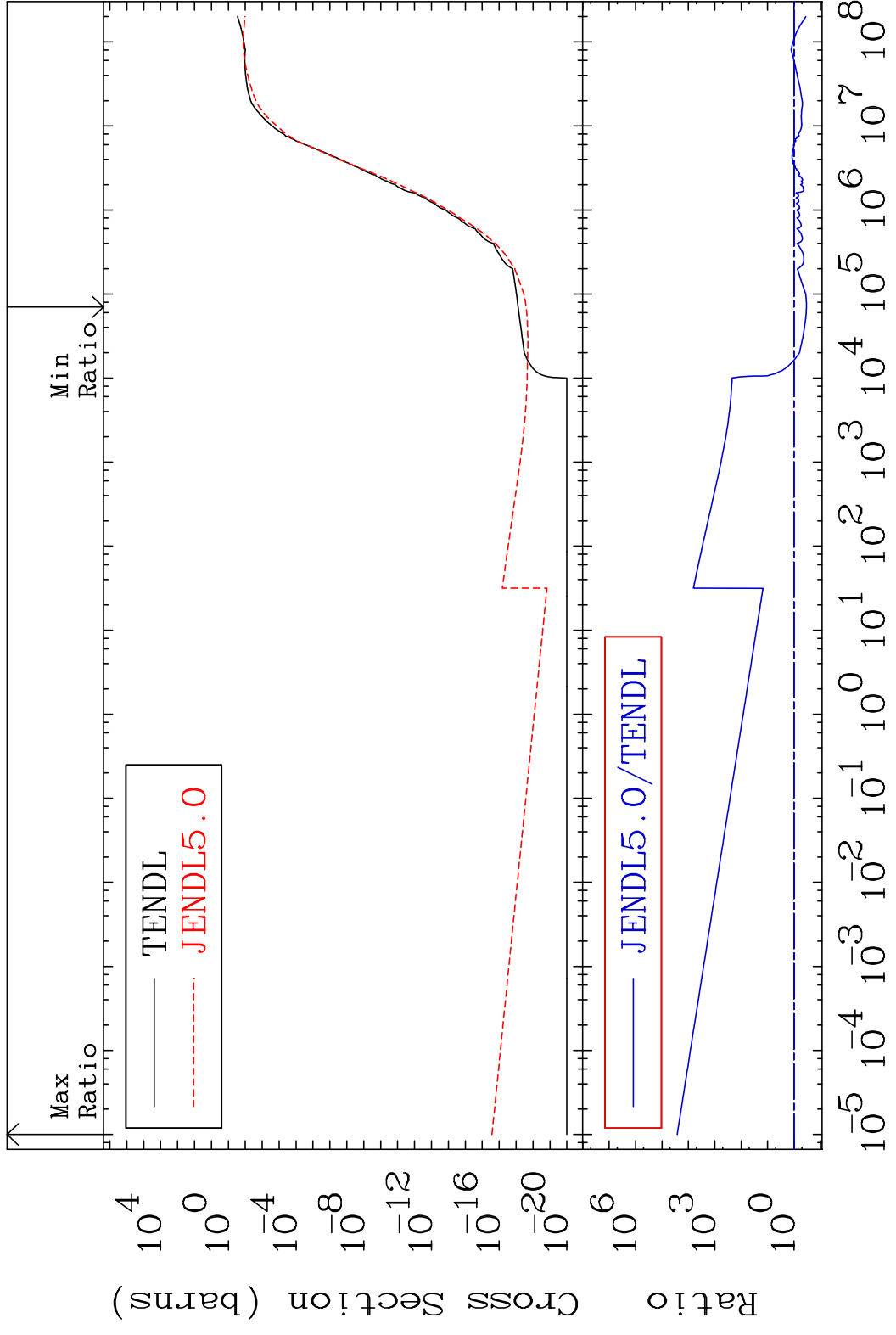
MAT 3919 Tritium Production 39-Y -87  
 Cross Section -100.0 To 9999. %



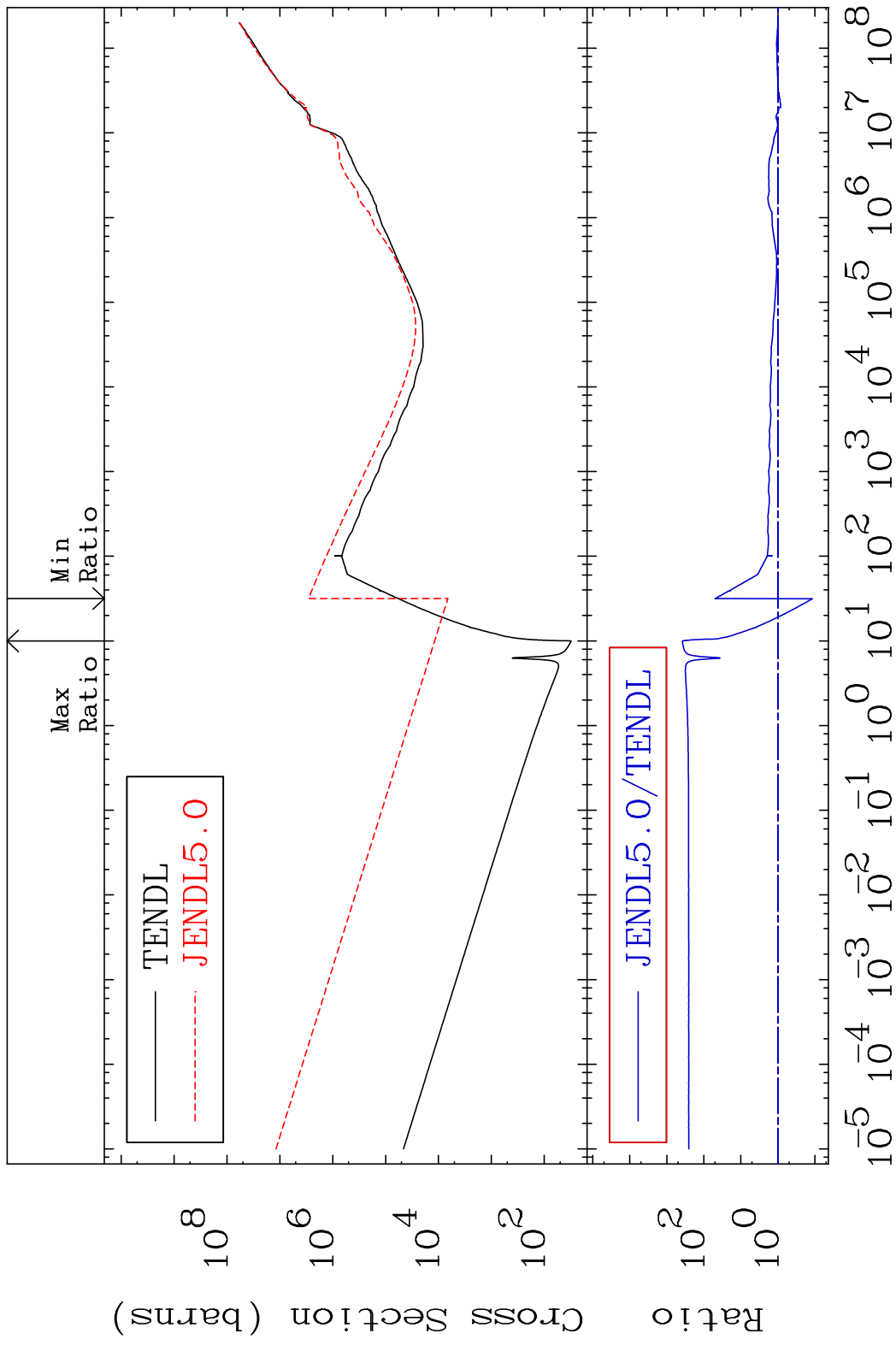
Cross Section -100.0 To 9999. %



MAT 3919 He-4 Production 39-Y -87  
 Cross Section -66.03 To 9999. %



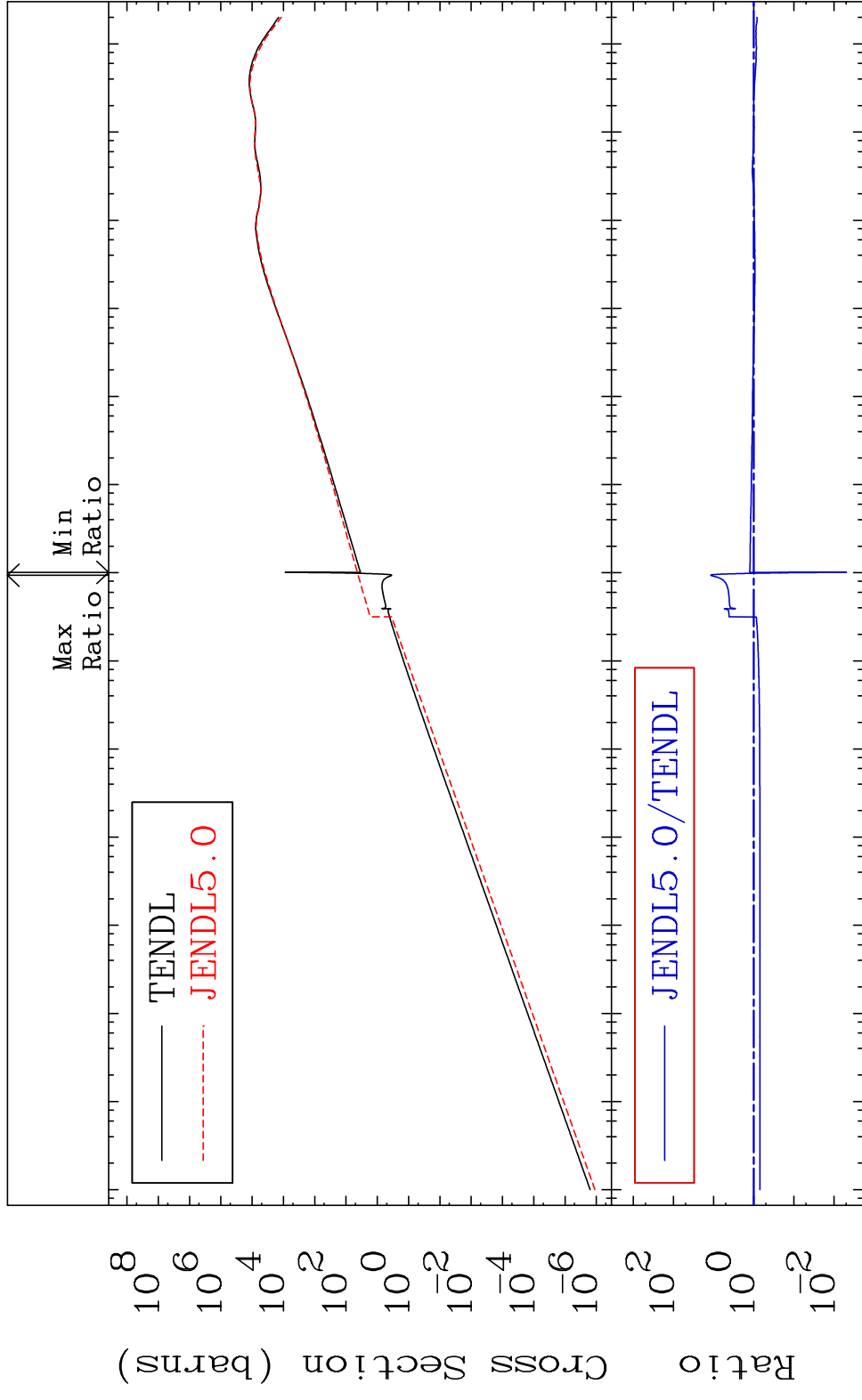
MAT 3919 Kerma total (eV-barns) 39-Y -87  
 Cross Section -88.42 To 9999. %



MAT 3919

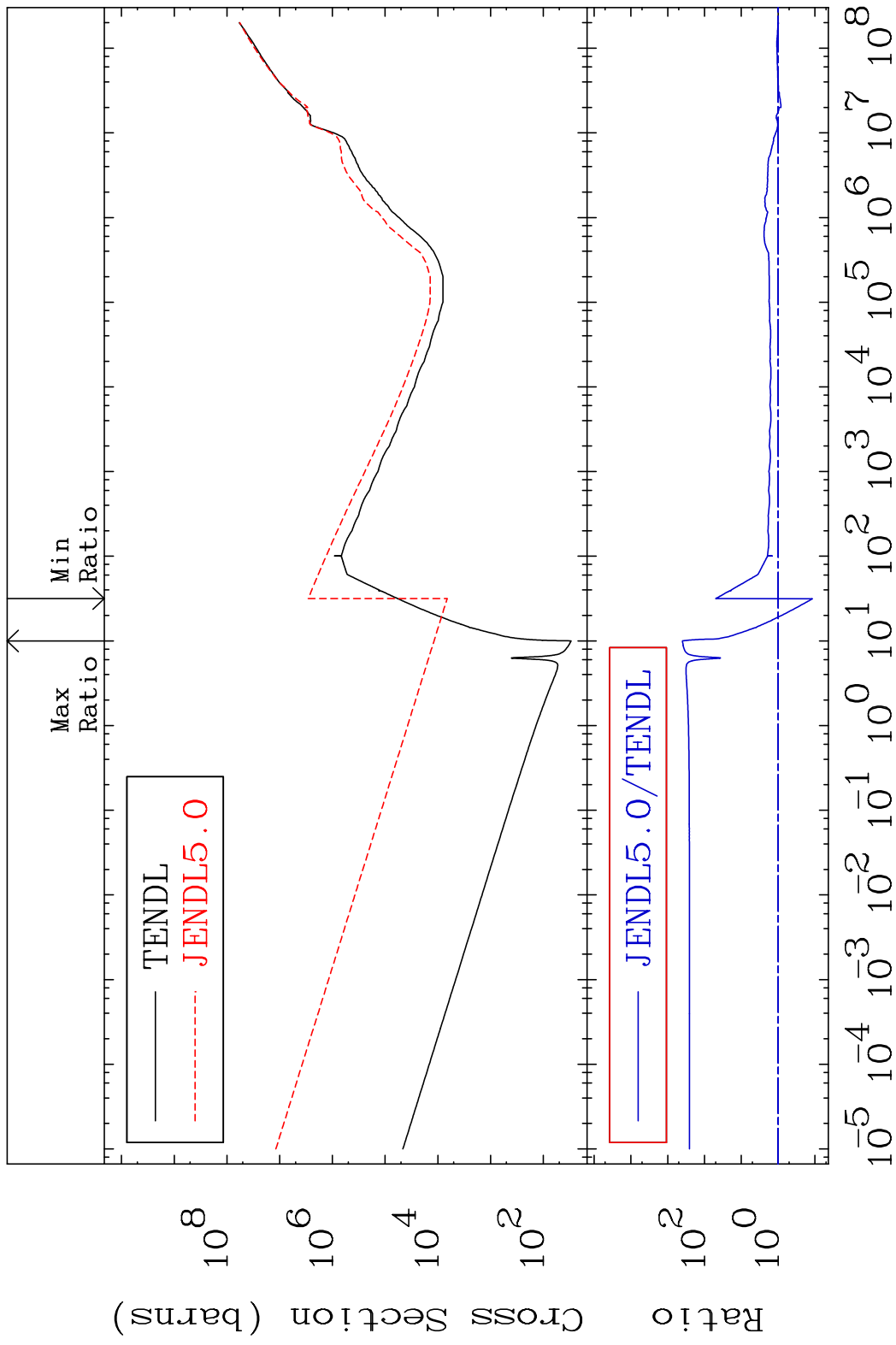
Kerma elastic  
Cross Section

-99.51 To 1081. %  
39-Y -87

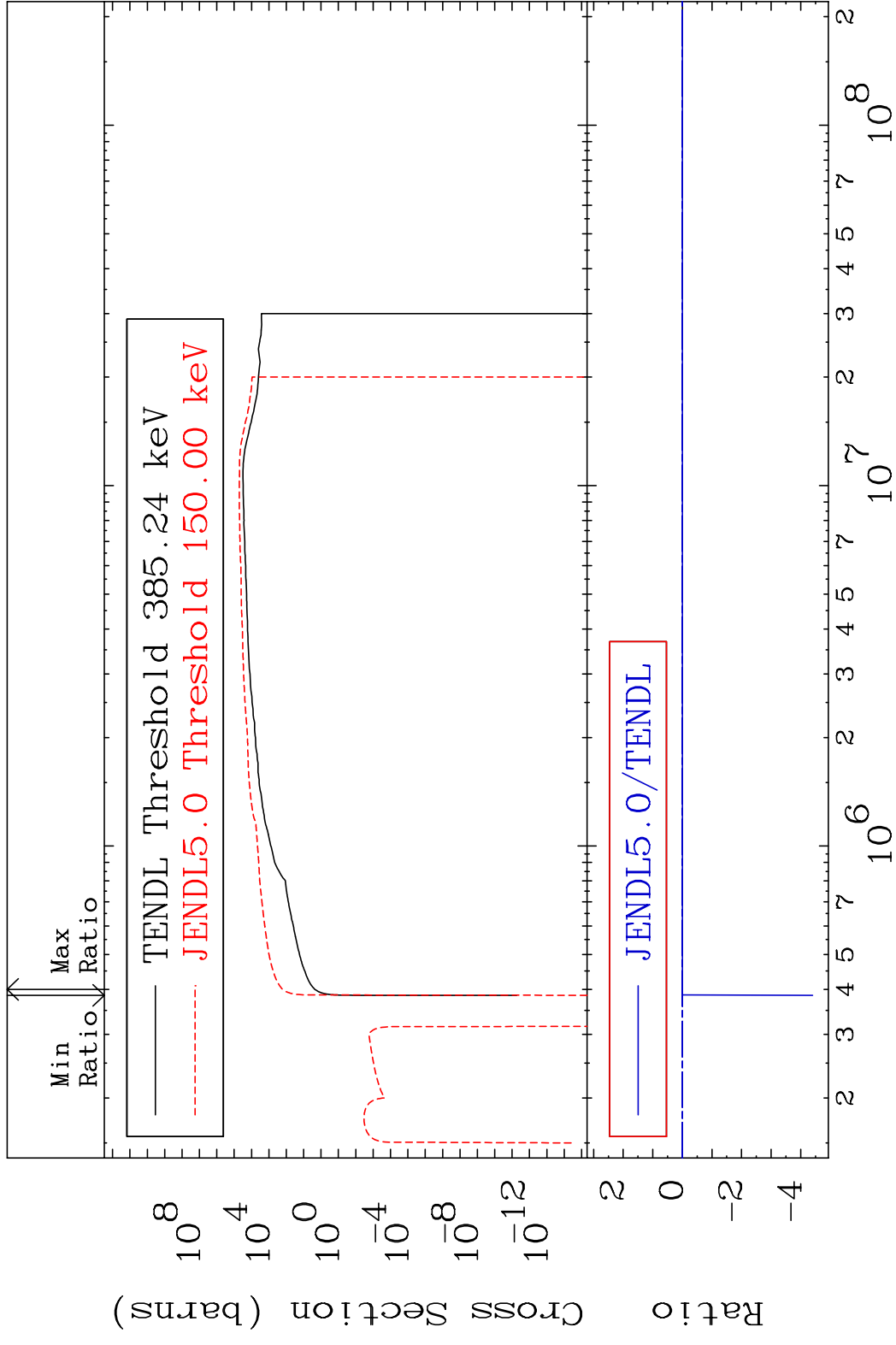




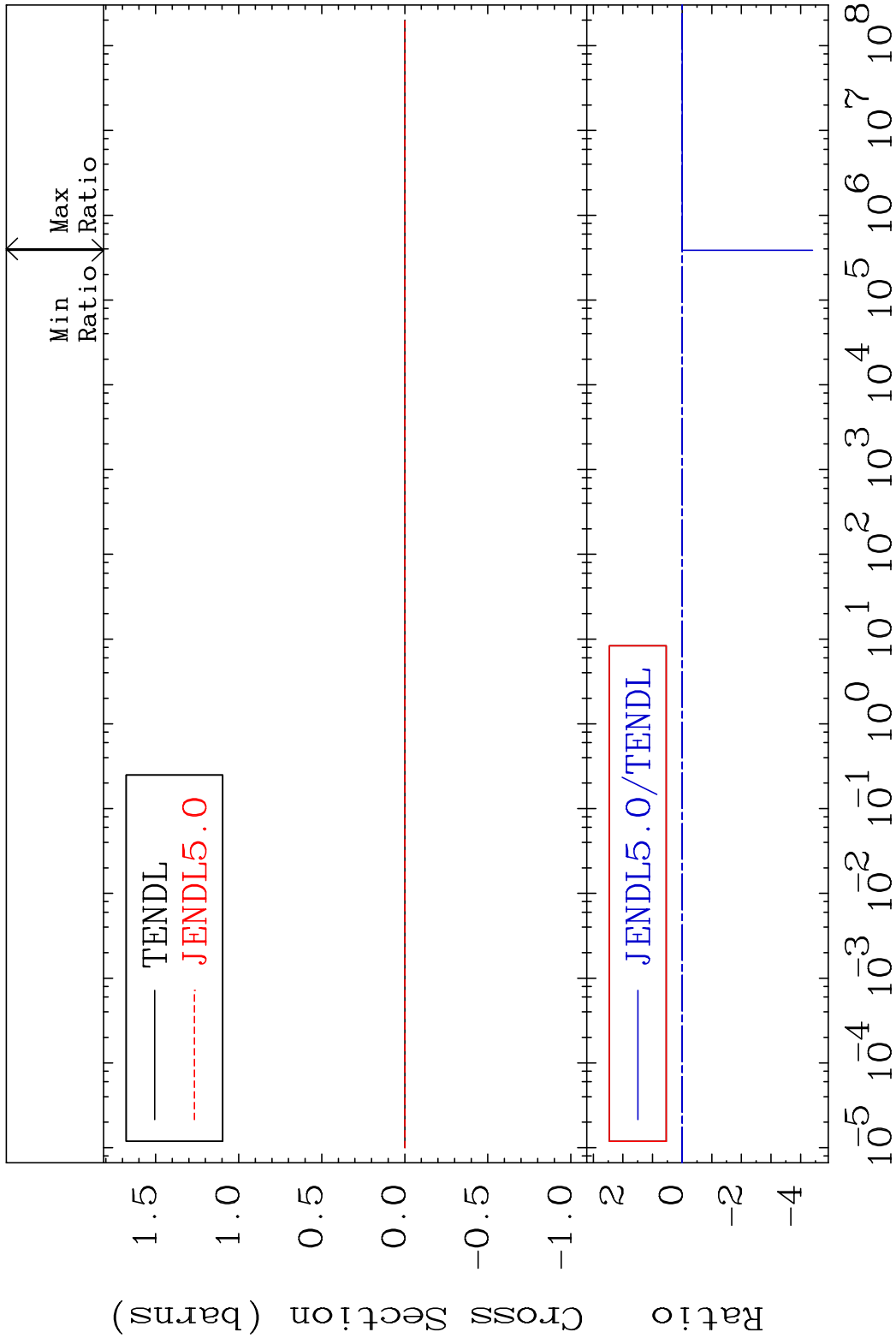
MAT 3919 Kerma non-elastic (all but mt2) 39-Y -87  
 Cross Section -88.43 To 9999. %



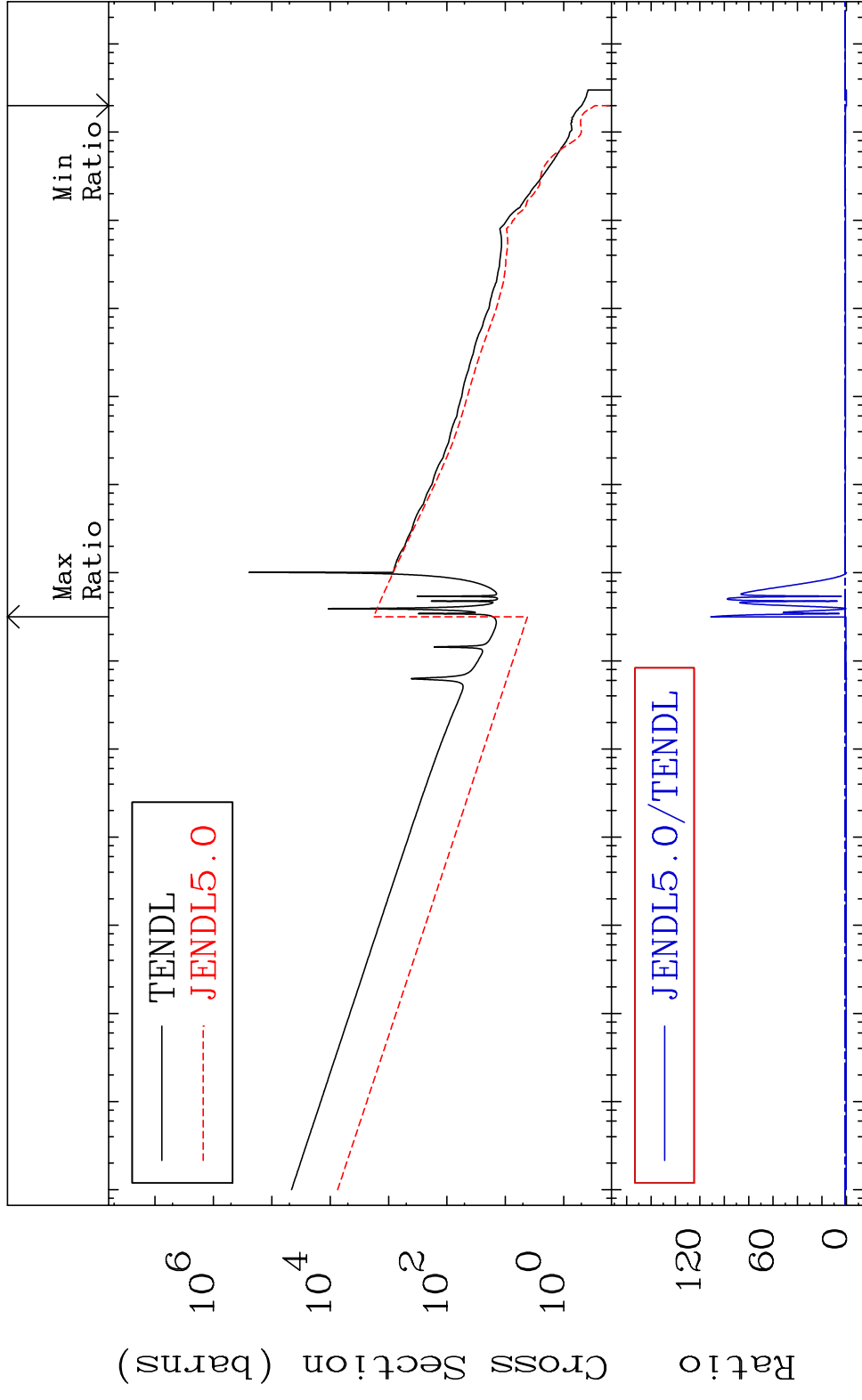
MAT 3919 Kerma inelastic (mt51-91) 39-Y -87  
 Cross Section -9999. To 7168. %



MAT 3919 Kerma fission (mt18 or mt19-20-21-38) 39-Y -87  
 Cross Section -9999. To 7168. %



MAT 3919 Kerma capture (mt102) 39-Y -87  
 Cross Section -100.0 To 9999. %

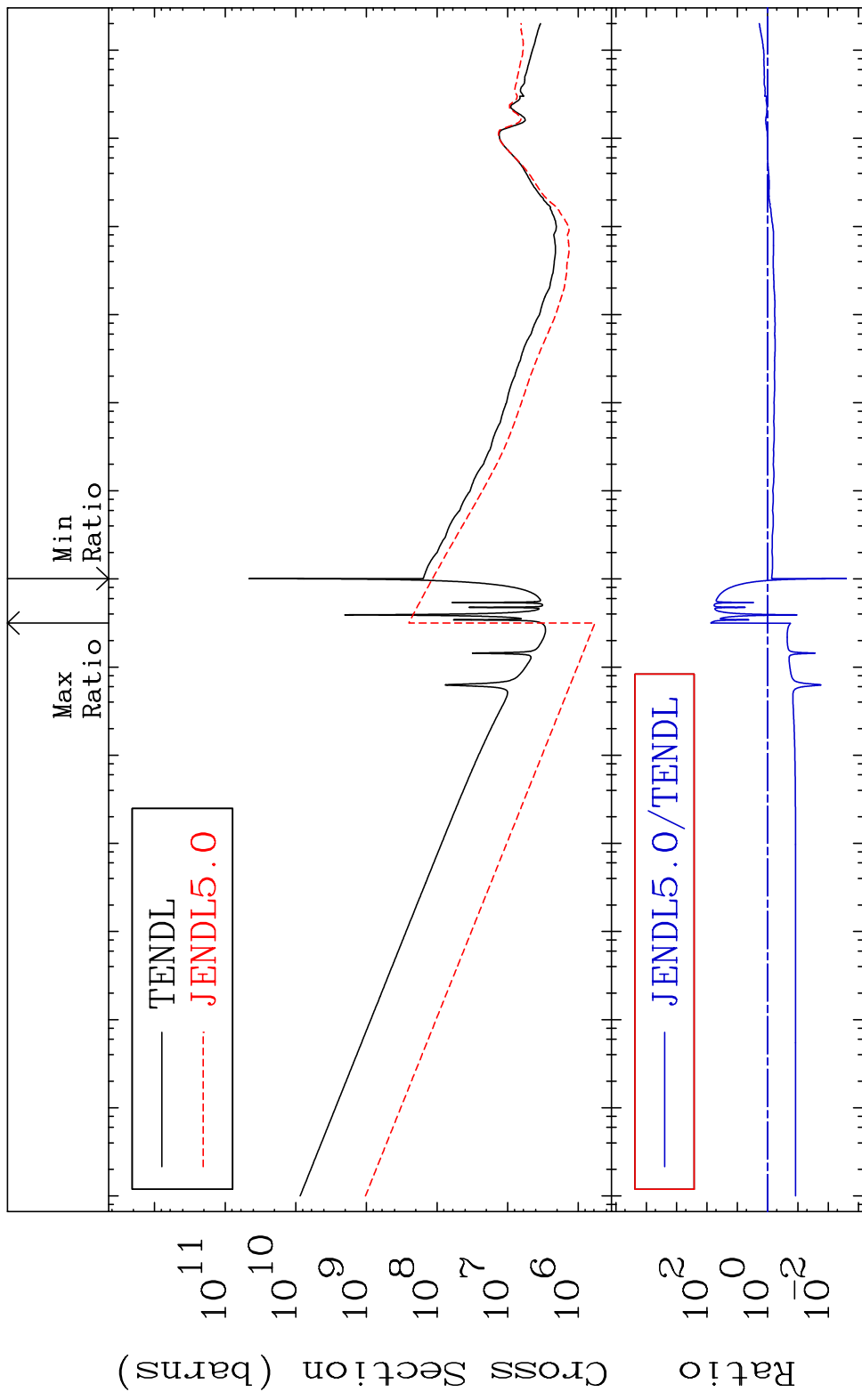


Ratio  
 120  
 60  
 0

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>

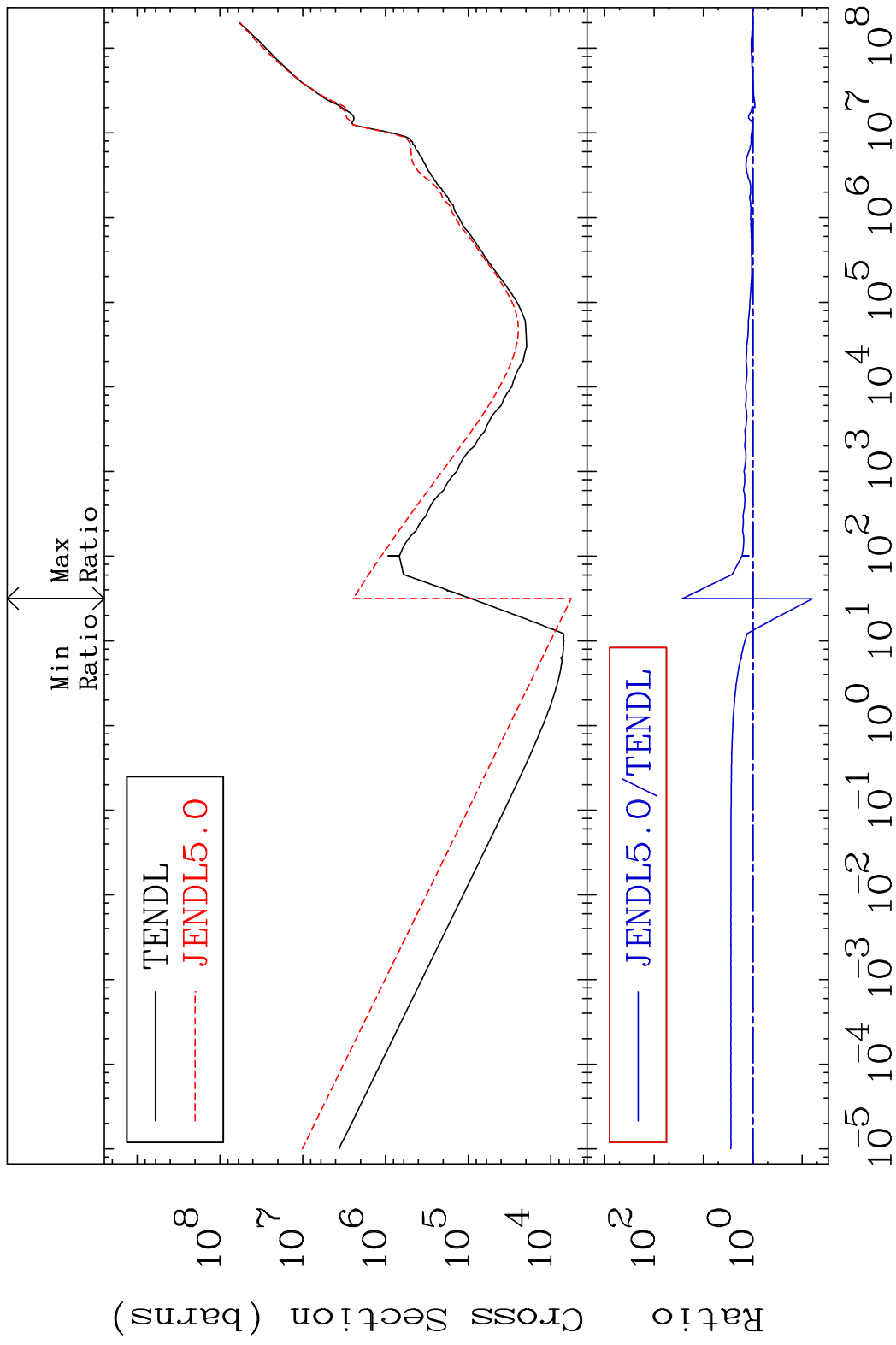
Incident Energy (eV) 39-Y -87

MAT 3919 Total photon (eV-barns) 39-Y -87  
 Cross Section -99.75 To 7410. %

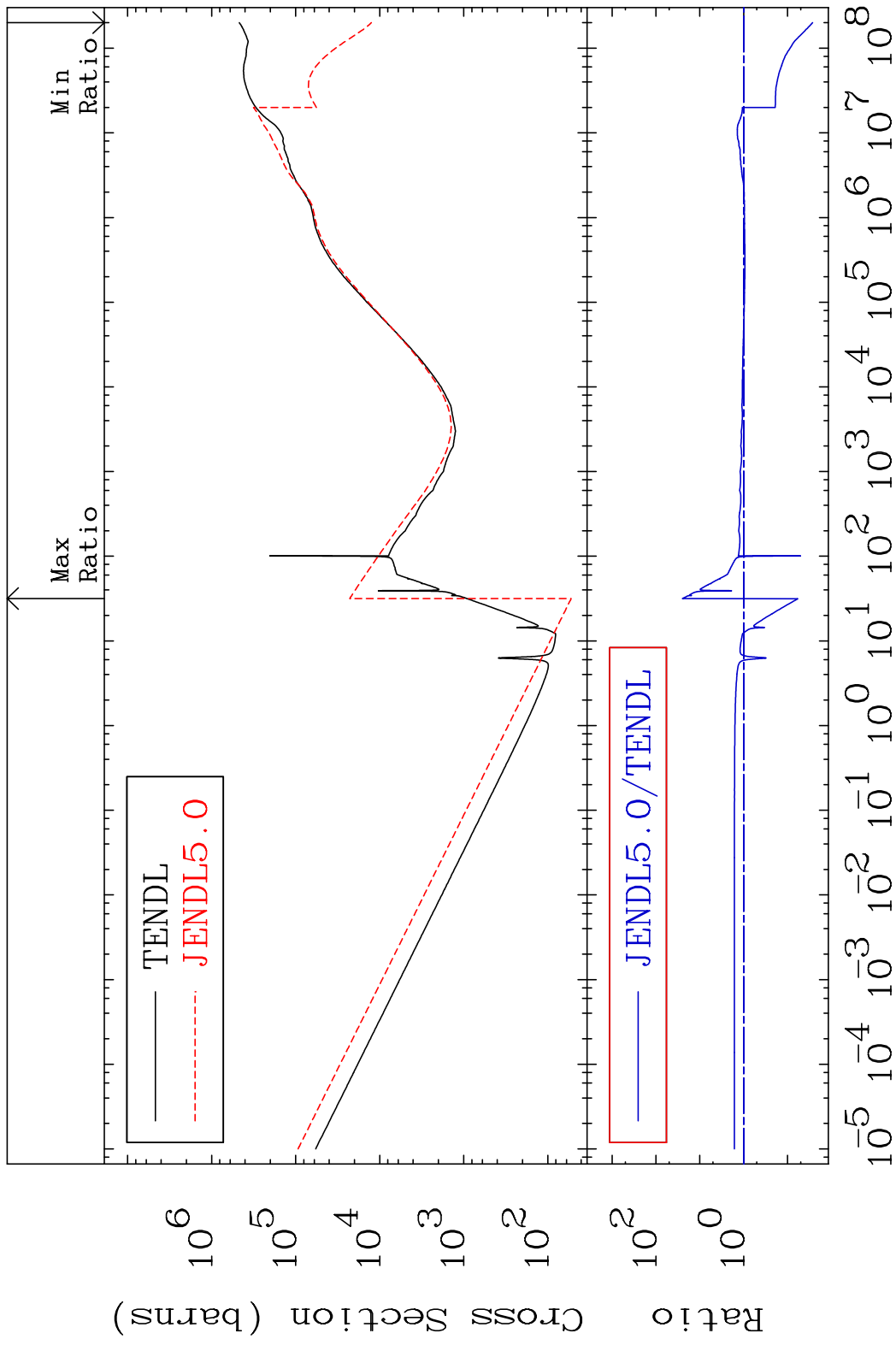


60 Incident Energy (eV) 39-Y -87

MAT 3919 Total kinematic kerma (high limit) 39-Y -87  
 Cross Section -93.82 To 2568. %



MAT 3919      Dpa total (eV-barns)      39-Y -87  
 Cross Section      -97.32 To 2397. %

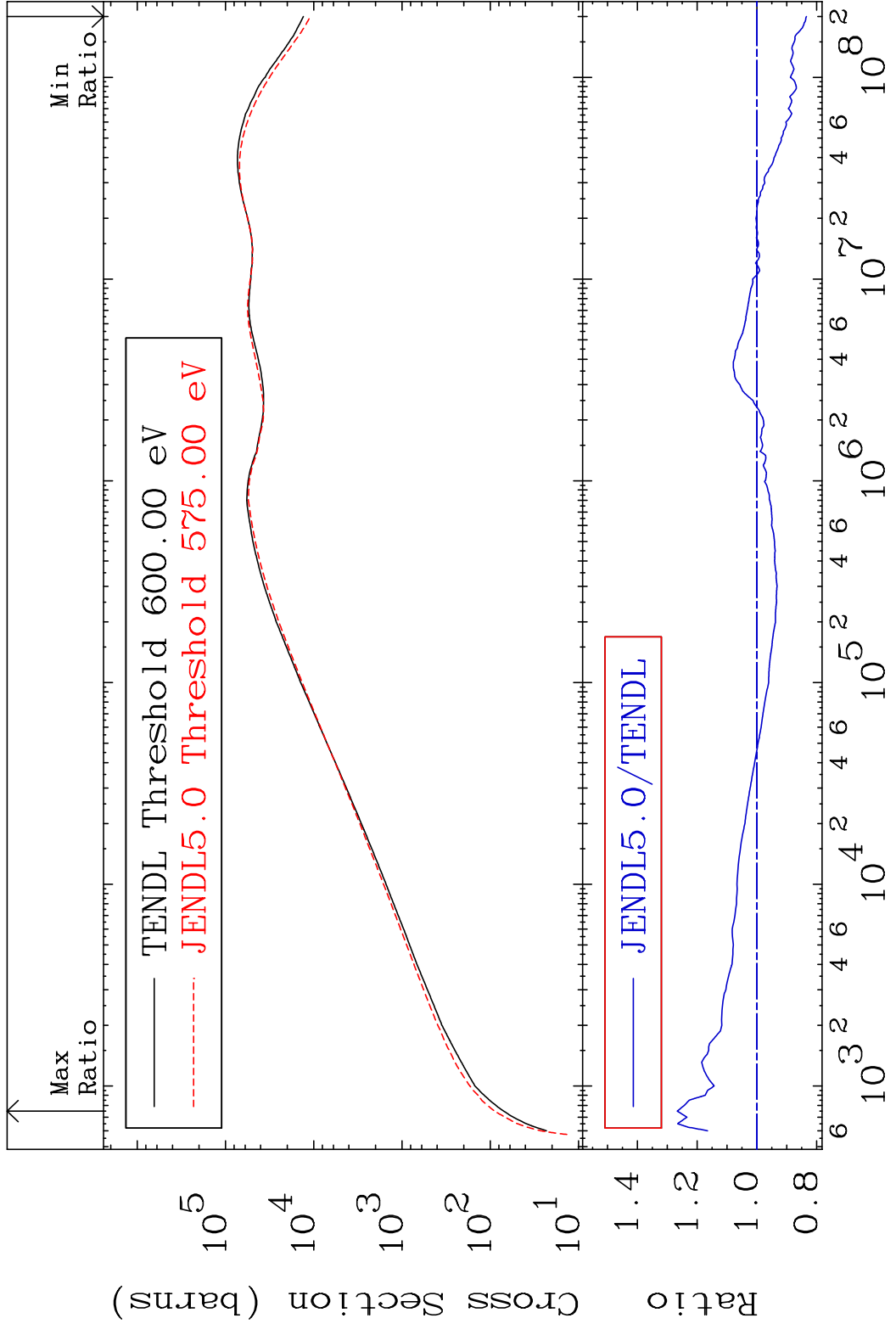


MAT 3919

Dpa elastic (mt2)

39-Y -87

Cross Section -16.54 To 26.68 %



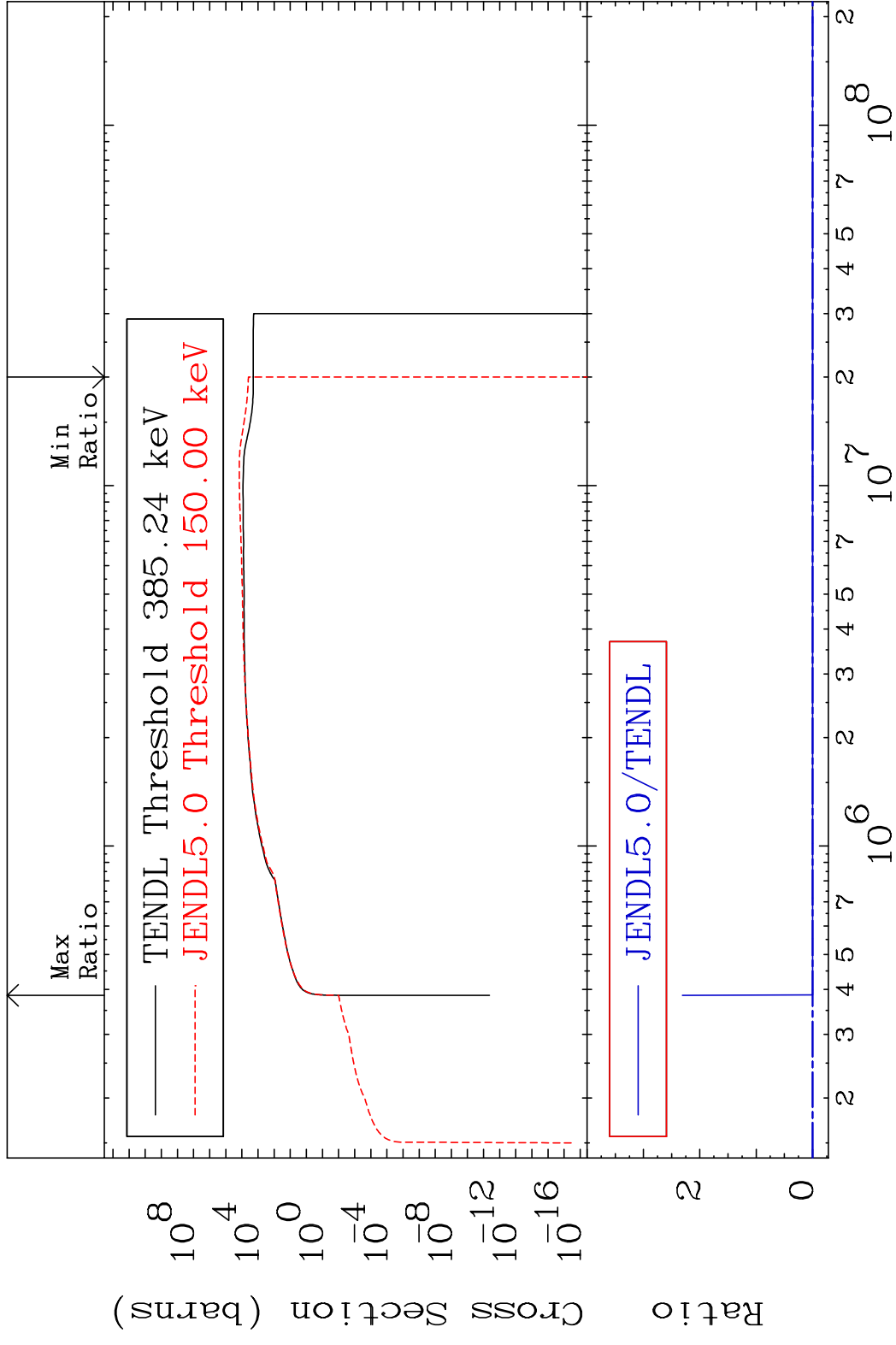
63

Incident Energy (eV)

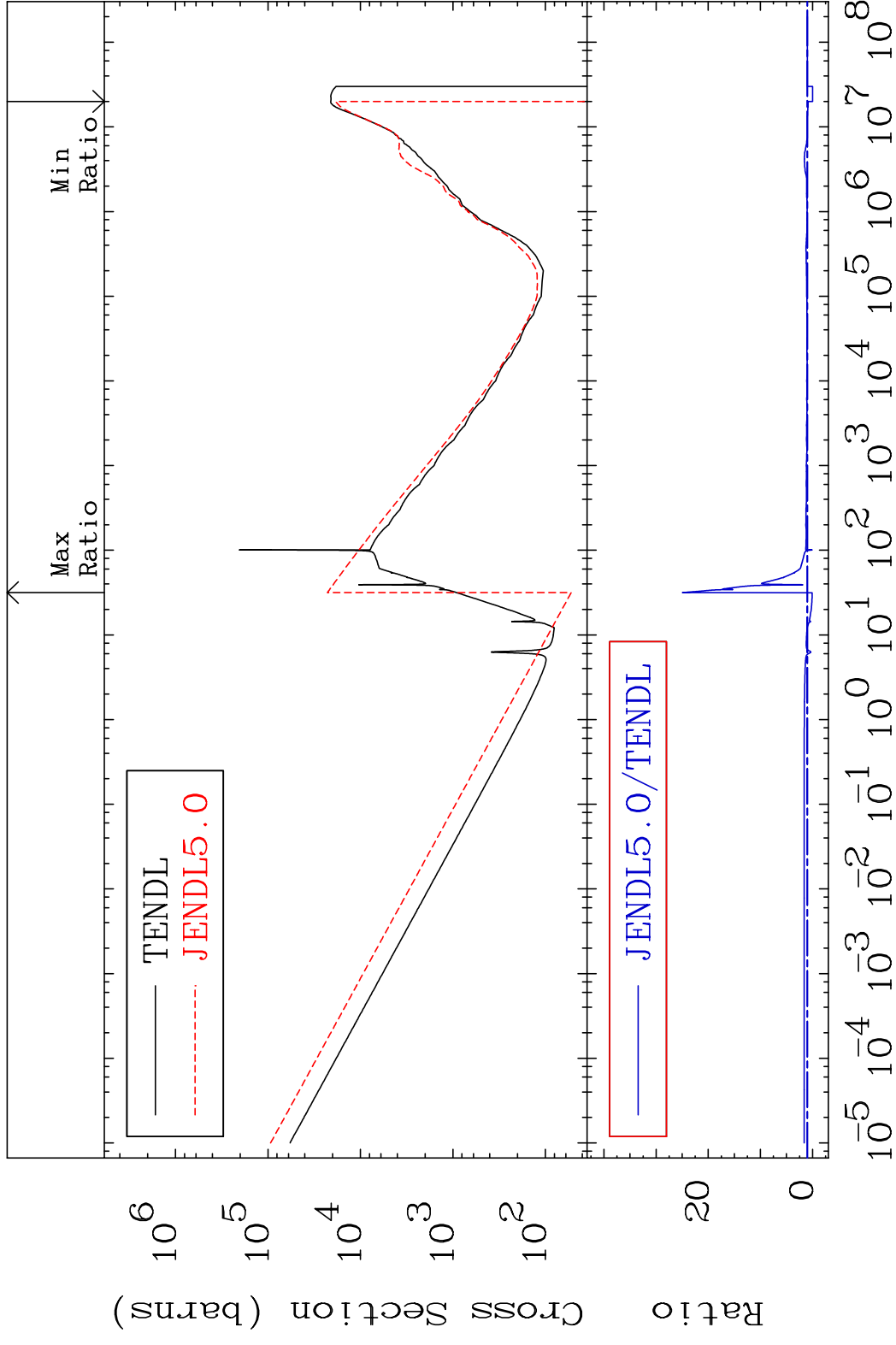
39-Y -87



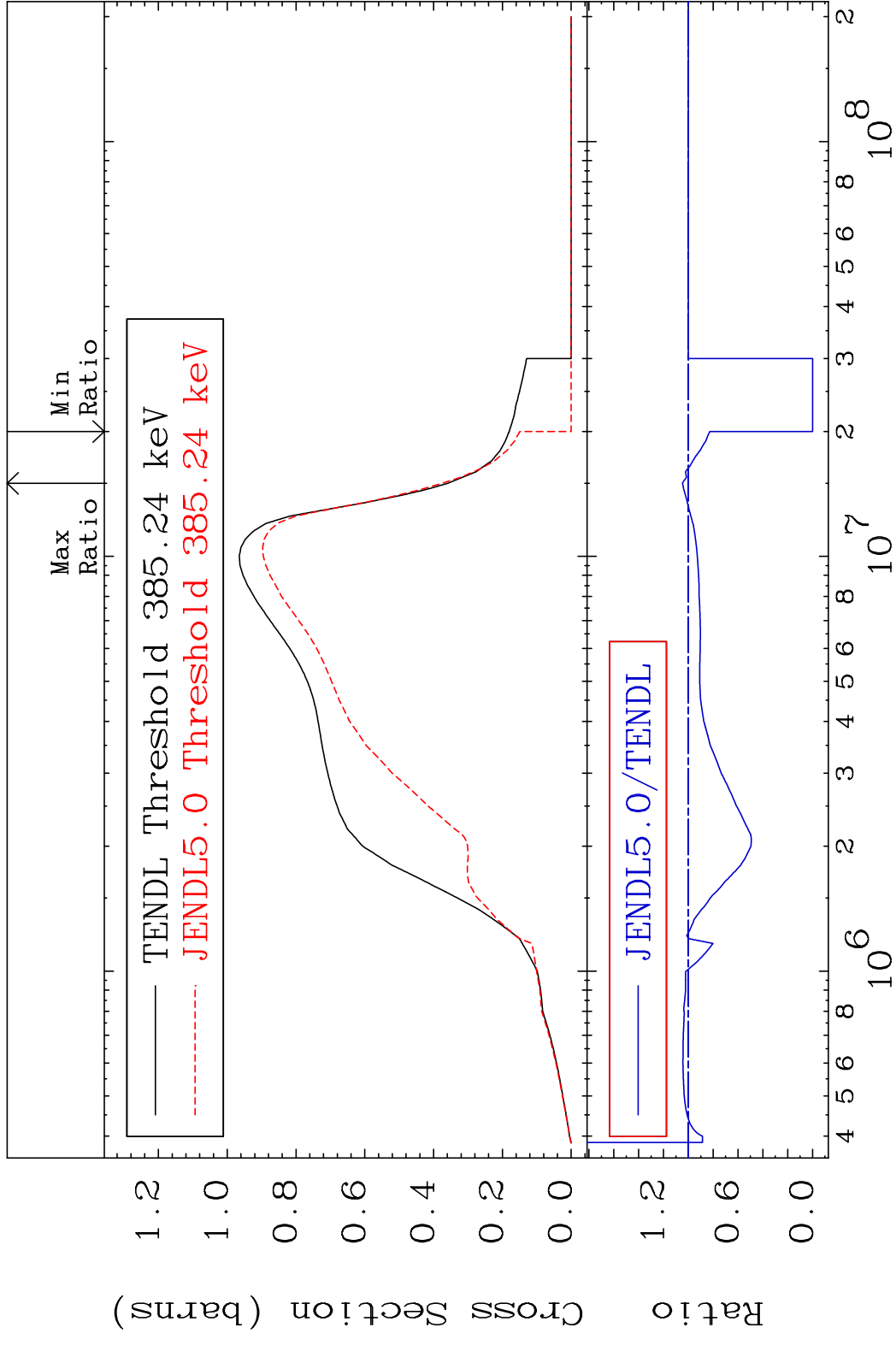
MAT 3919      Dpa inelastic (mt51-91)      39-Y -87  
 Cross Section      -100.0 To 9999. %

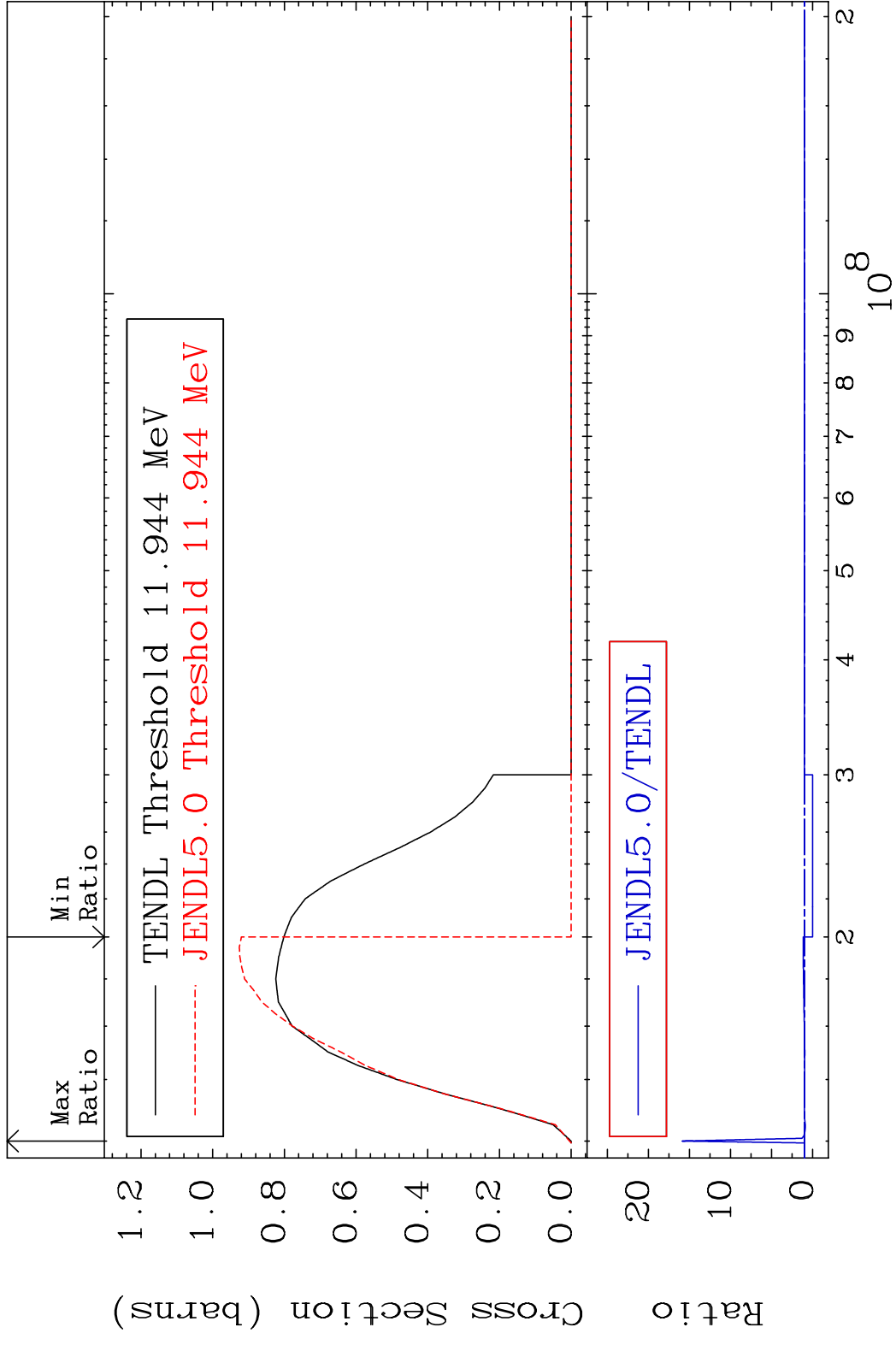


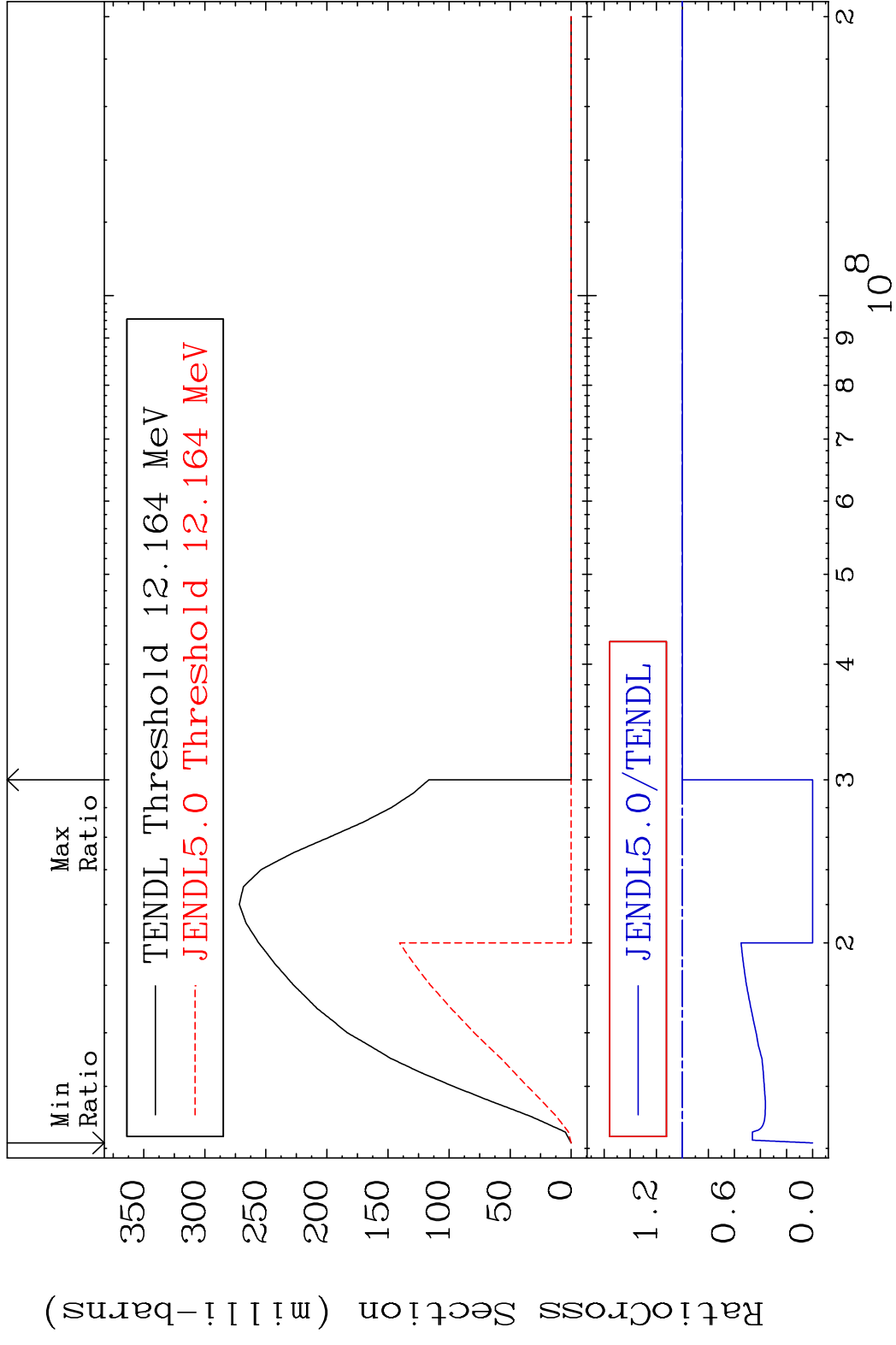
MAT 3919 Dpa disappearance (mt102 -120) 39-Y -87  
 Cross Section -100.0 To 2397. %

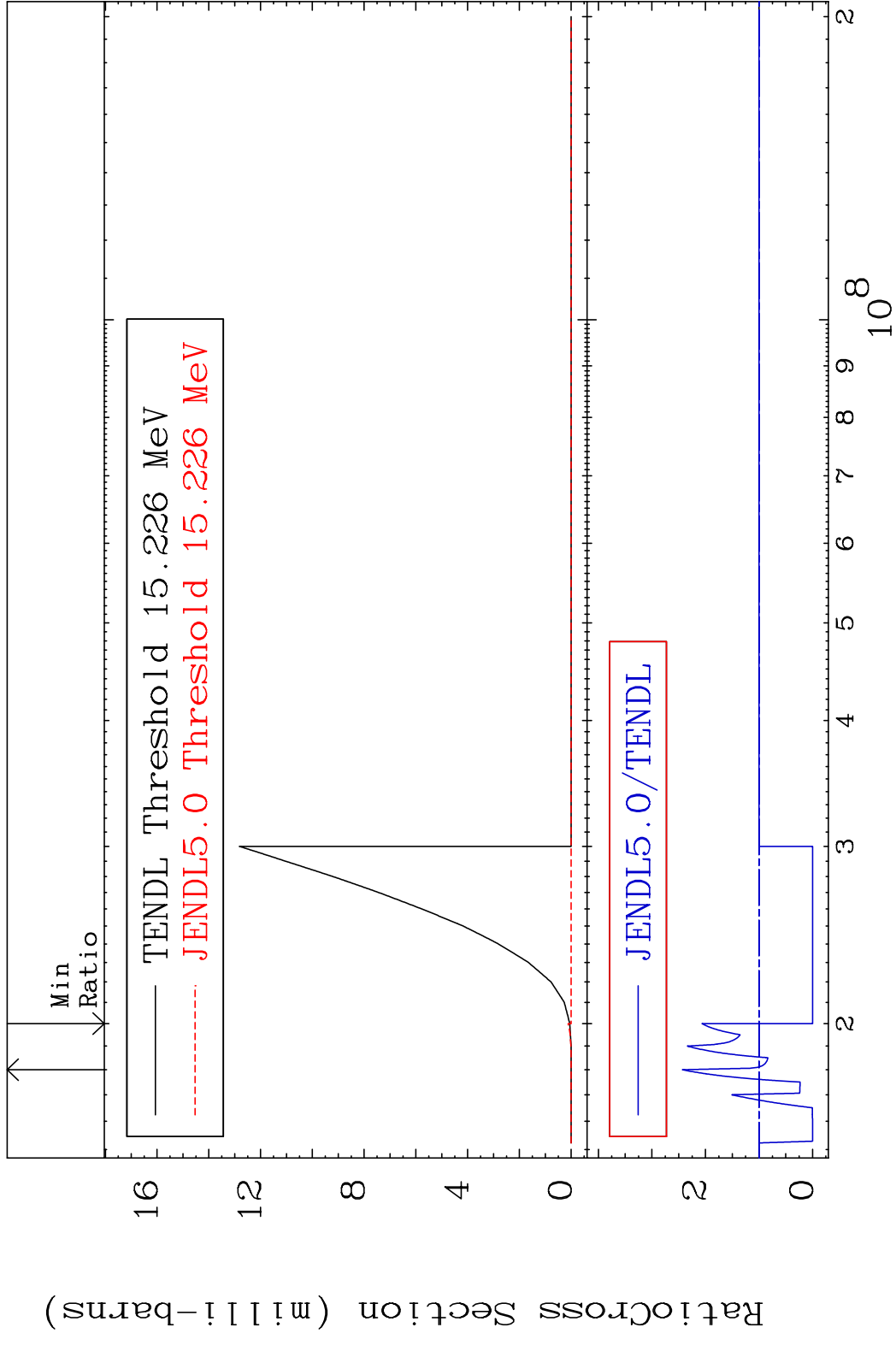


65 Incident Energy (eV) 39-Y -87

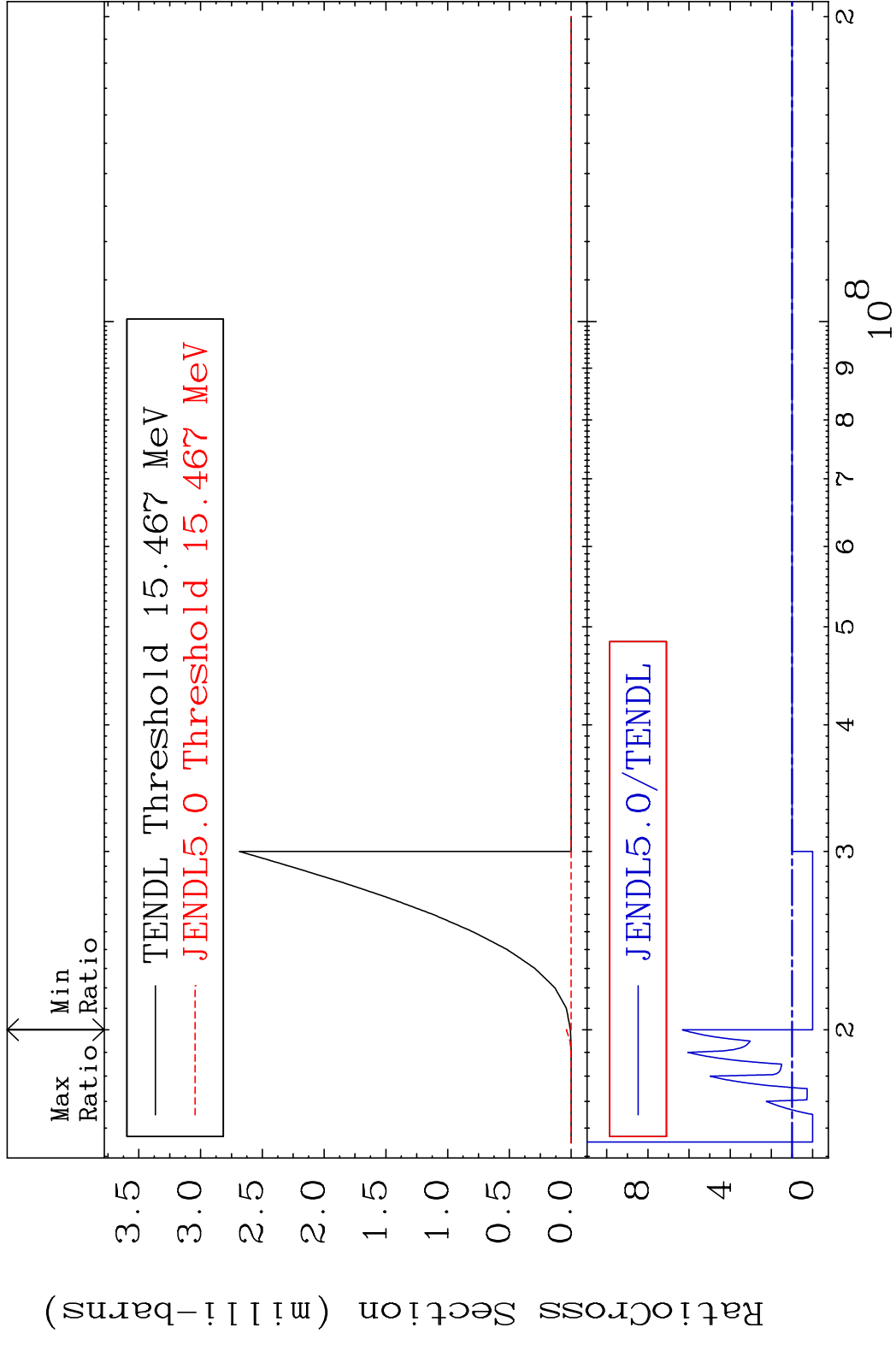


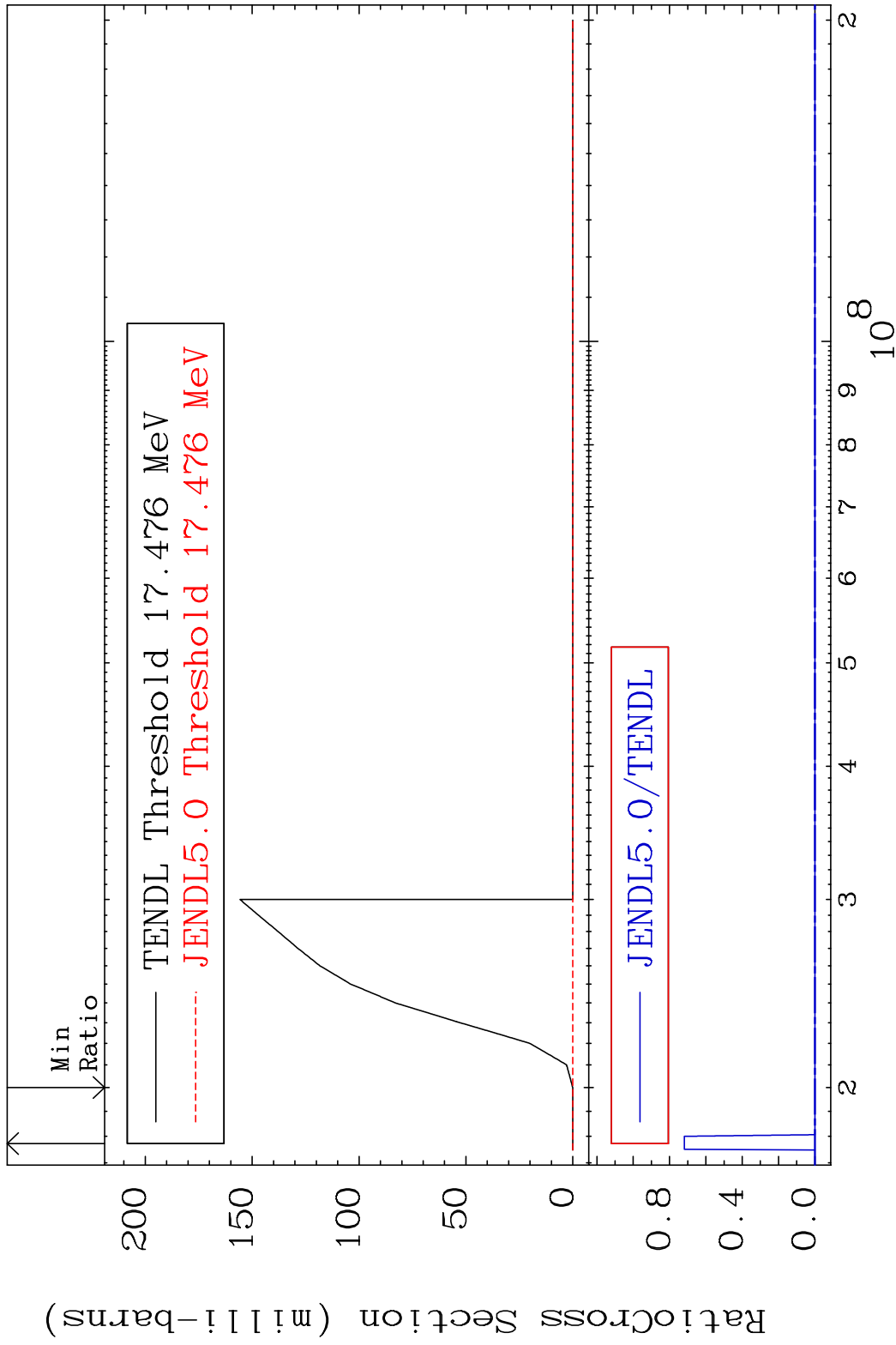




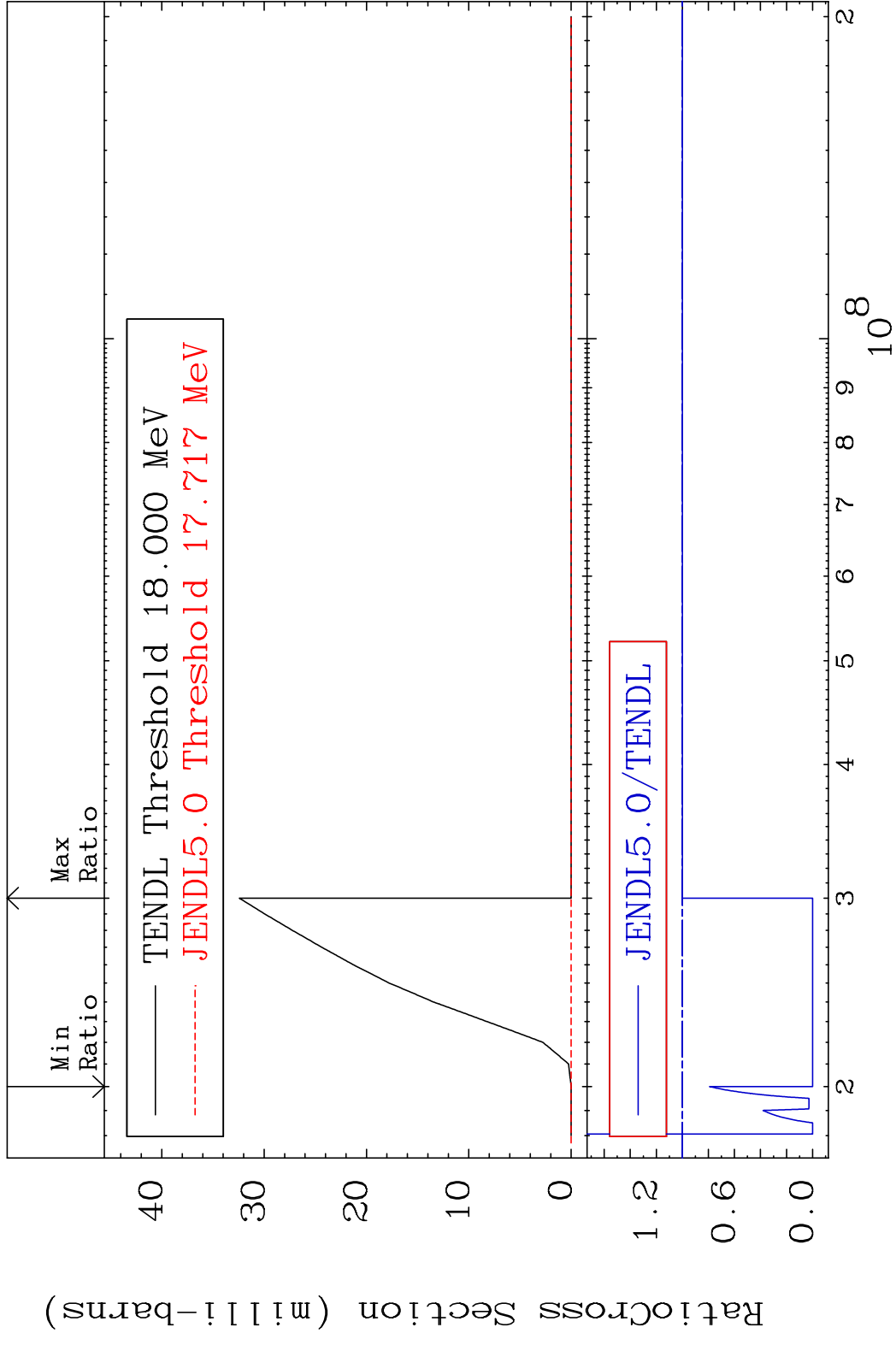


MAT 3919 (n, n') d:38-Sr-85m2 39-Y -87  
 Radionuclide Production Cross Section 532.7 %

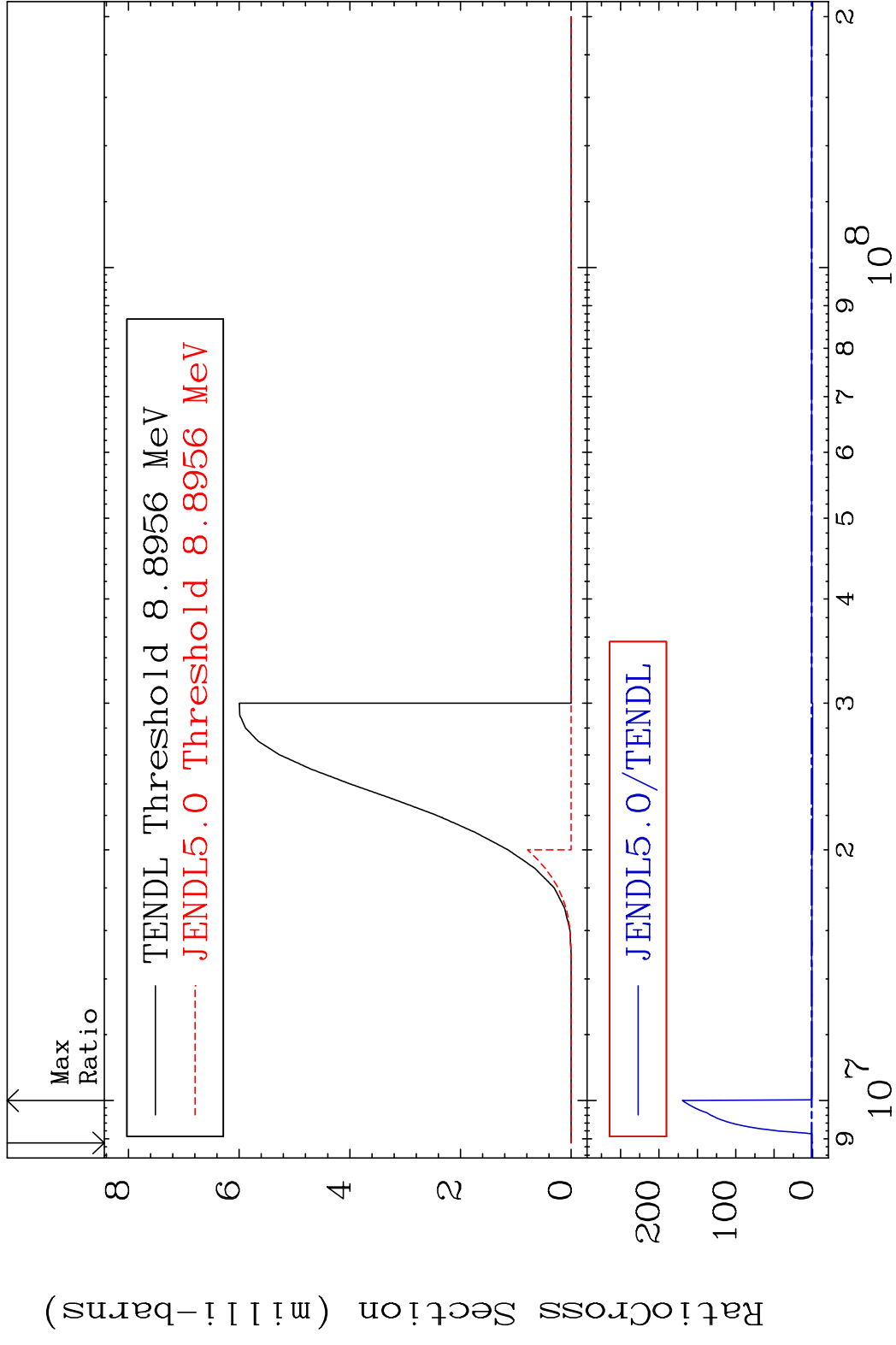


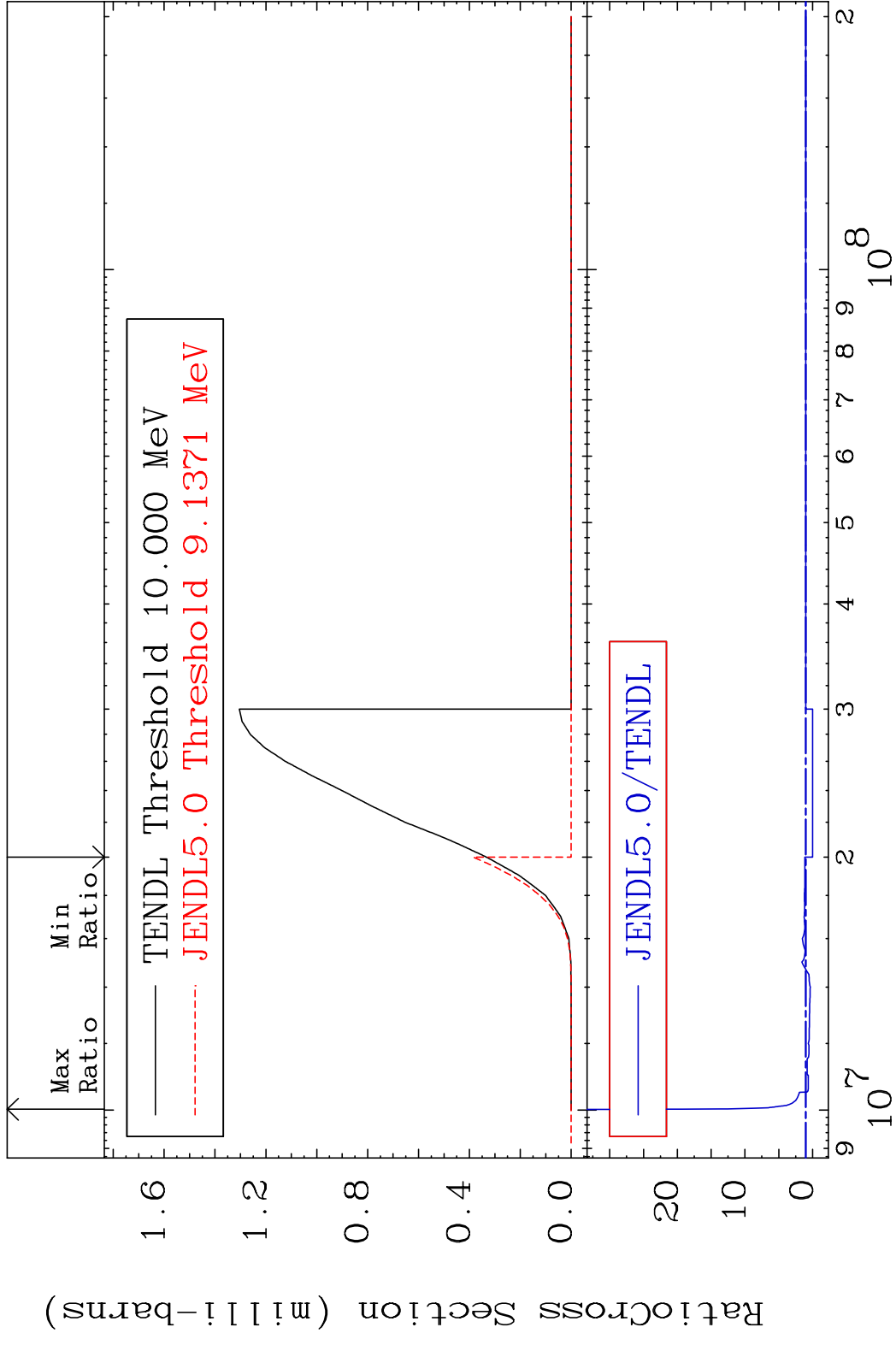




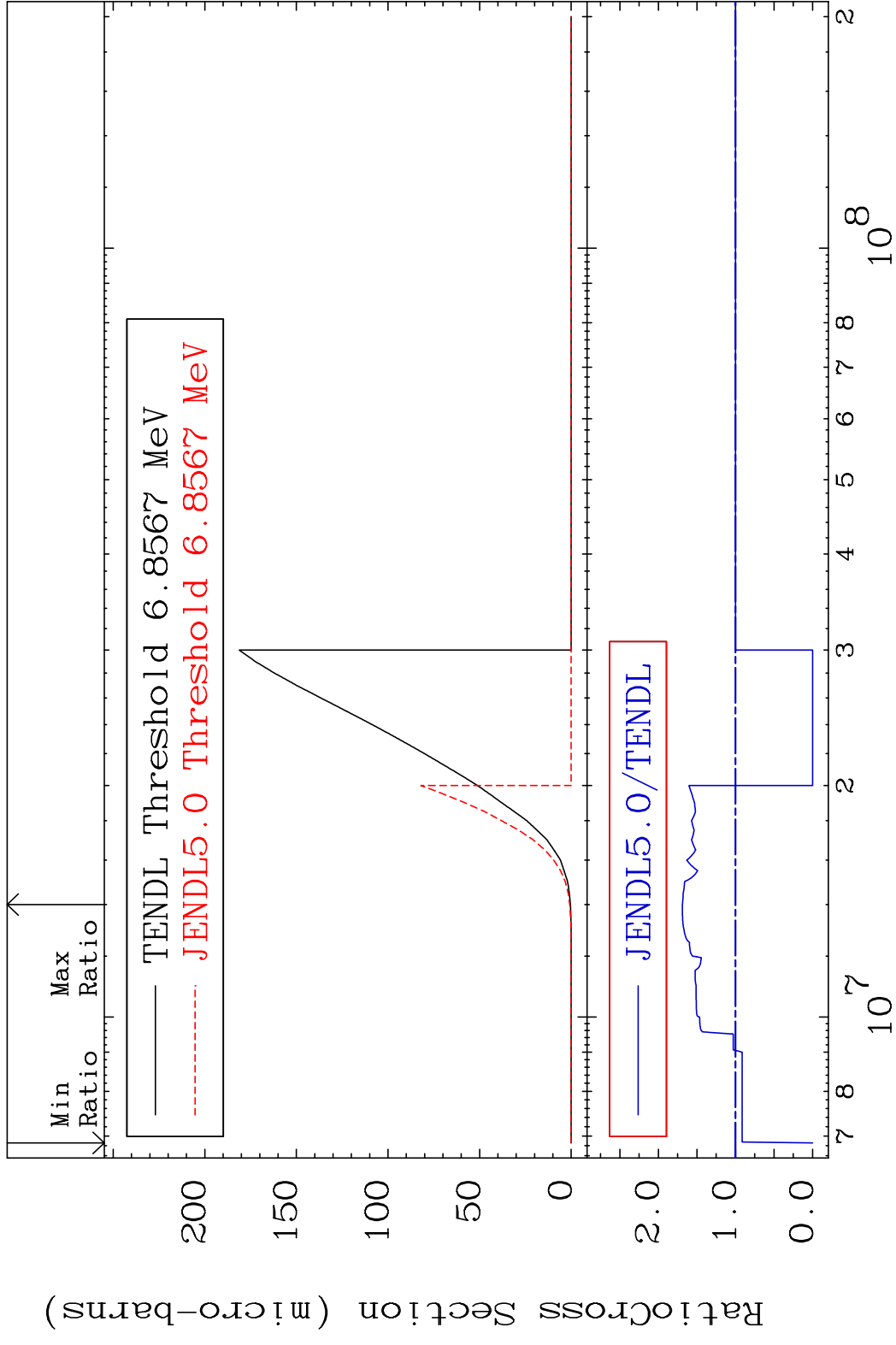


MAT 3919 (n, t):38-Sr-85g 39-Y -87  
 Radionuclide Production Cross Section Ratio

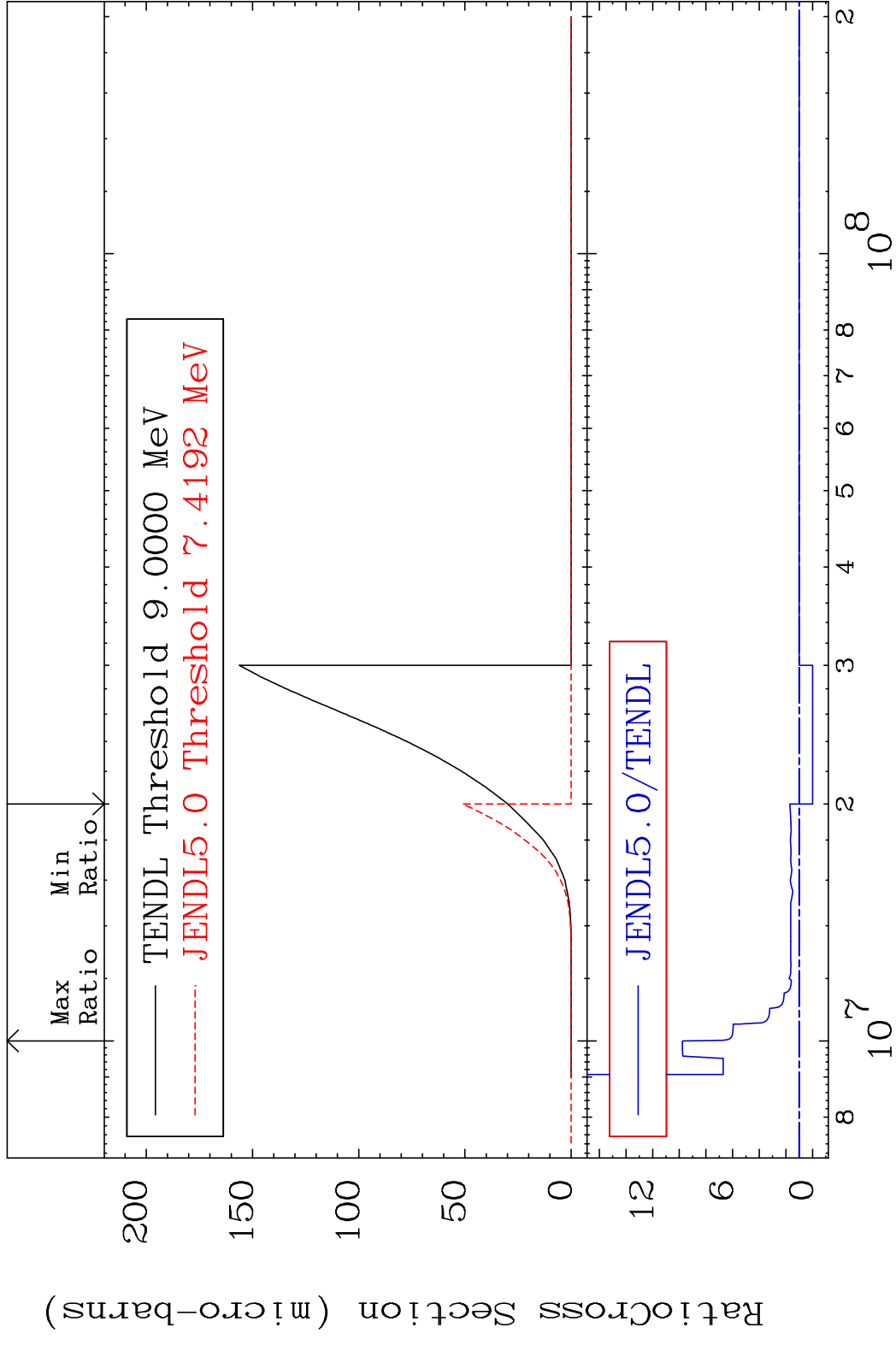


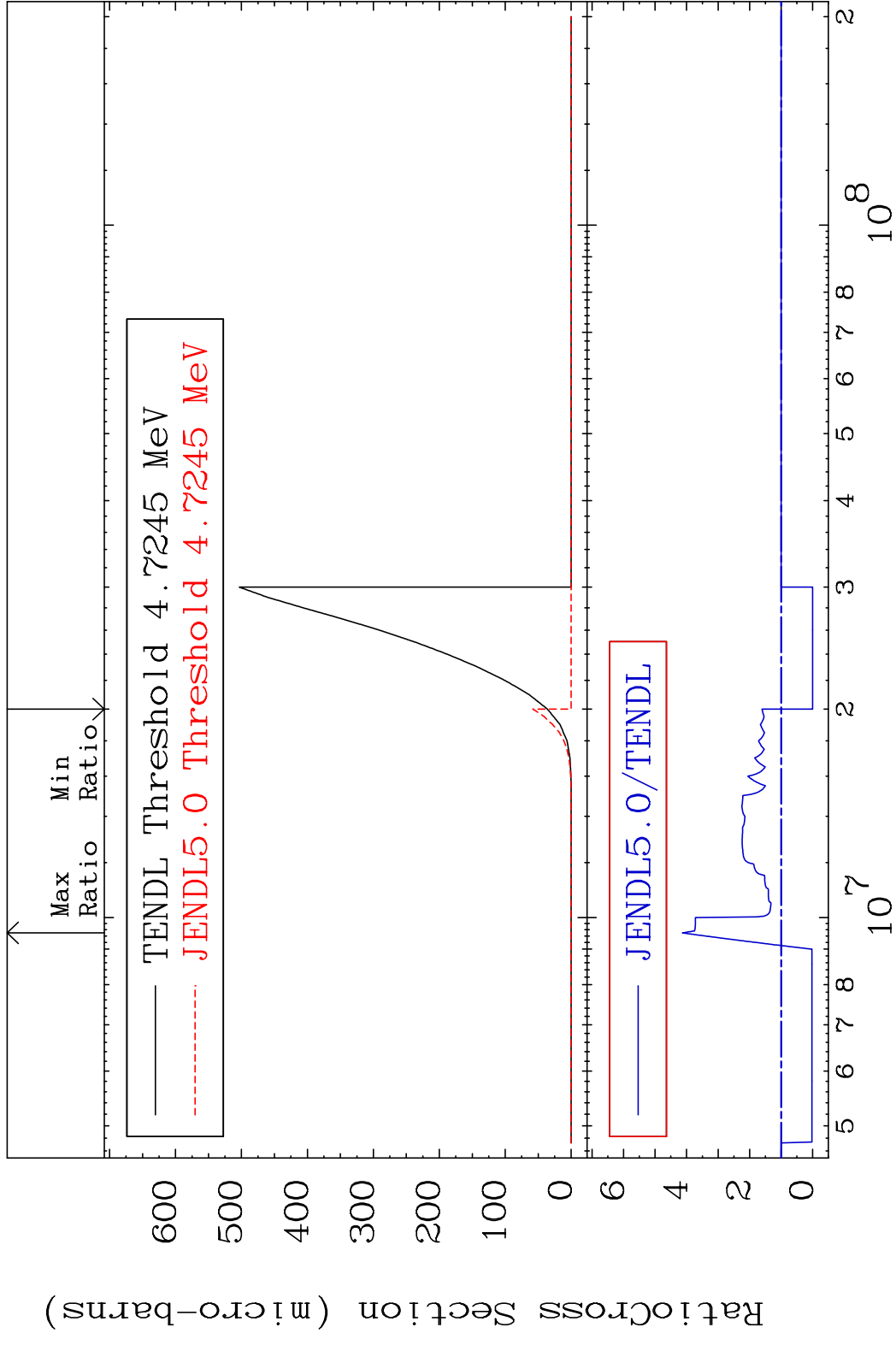


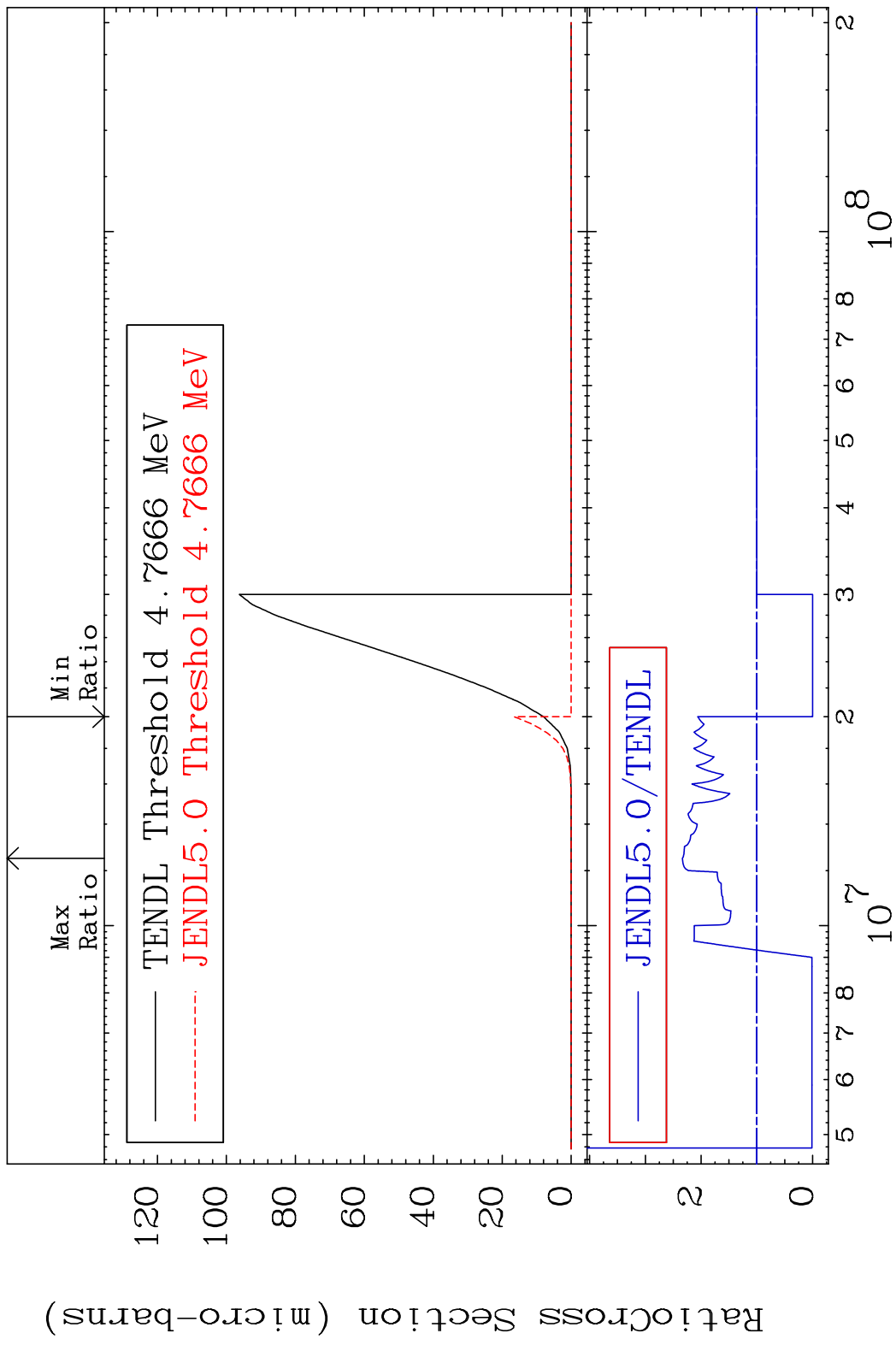
MAT 3919 (n,2p):37-Rb-86g 39-Y -87  
 Radionuclide Production Cross Section 68.93 %

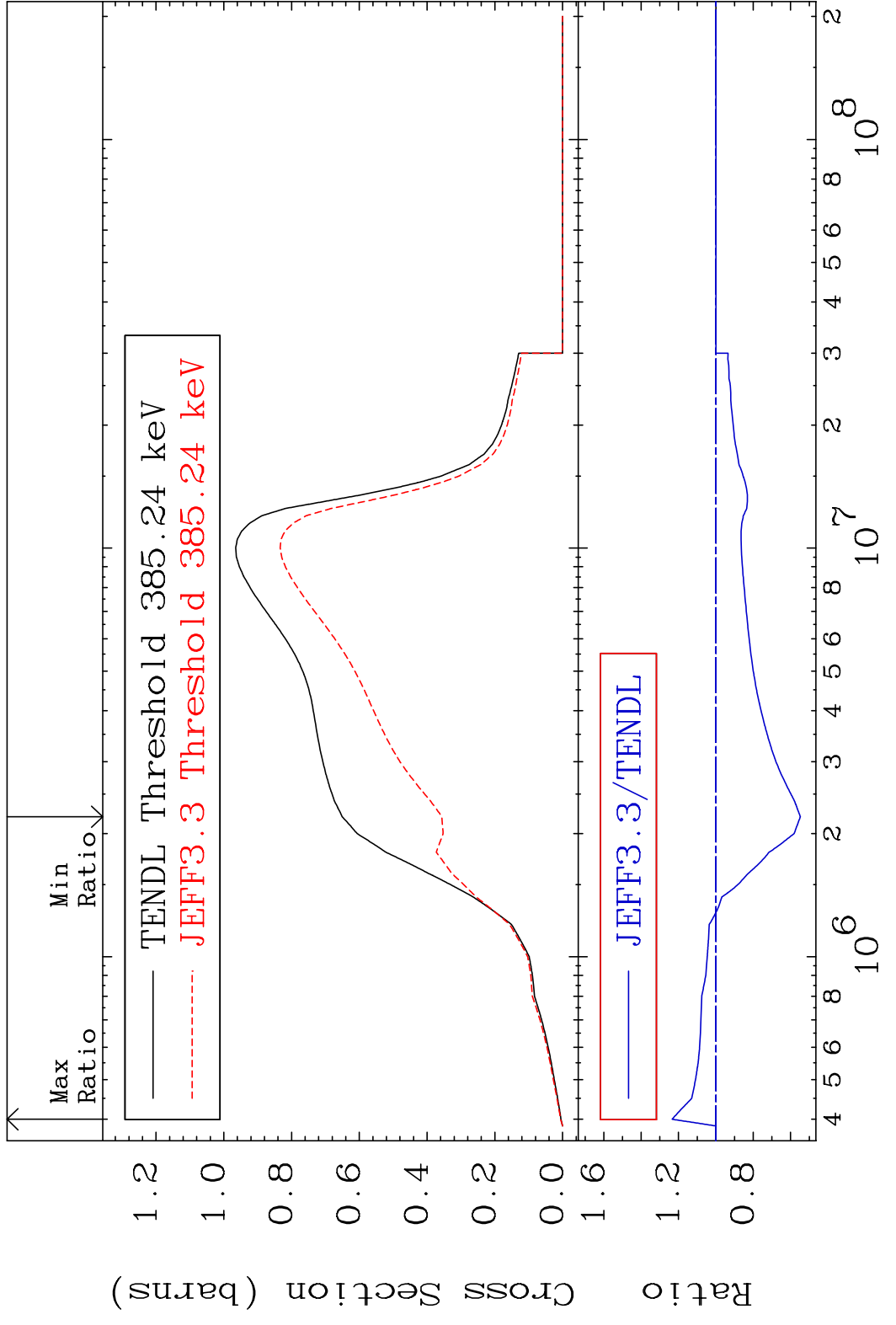


MAT 3919 (n,2p):37-Rb-86m2 39-Y -87  
 Radionuclide Production Cross Section 180.0 dth 877.0 %



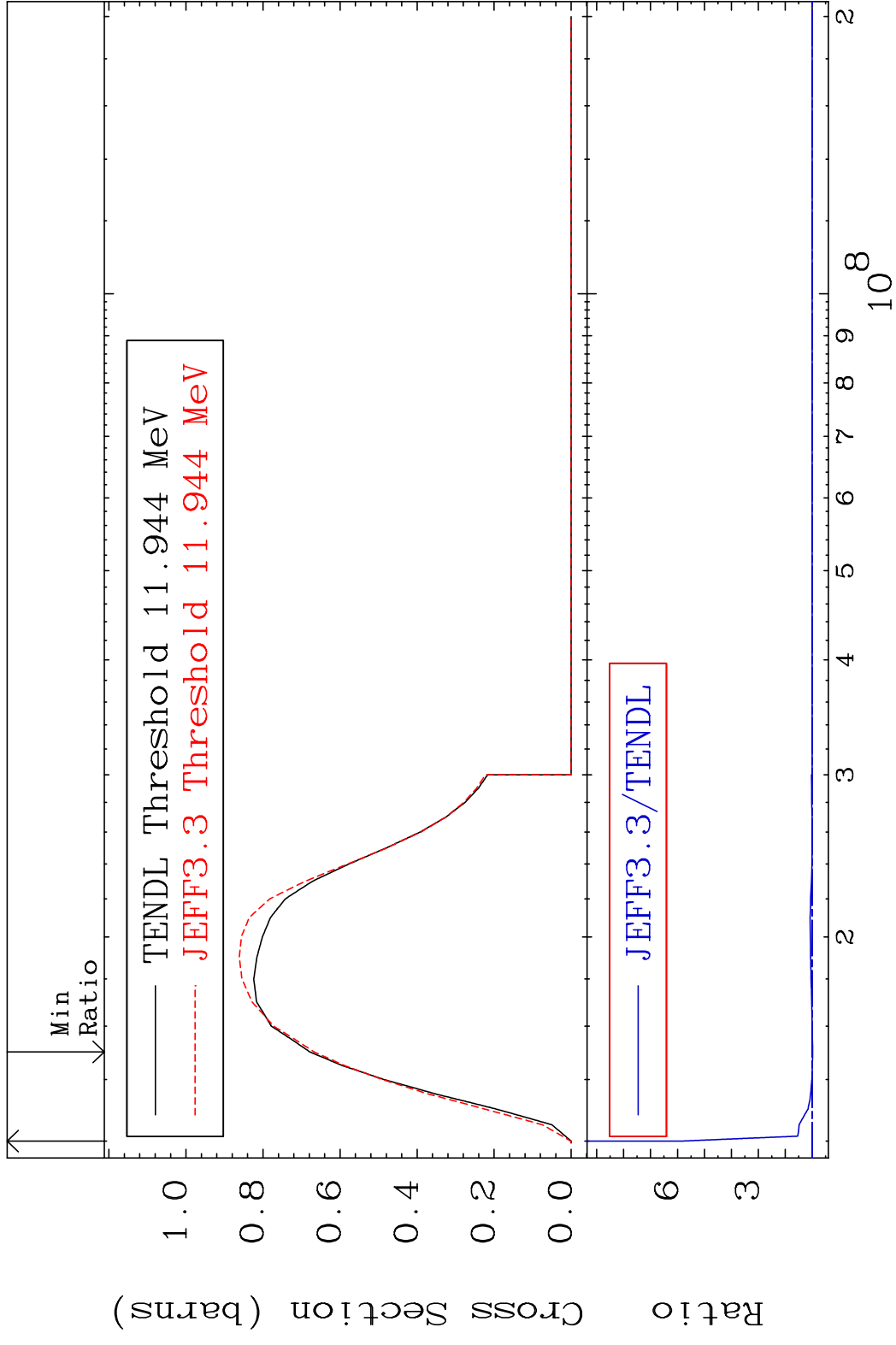


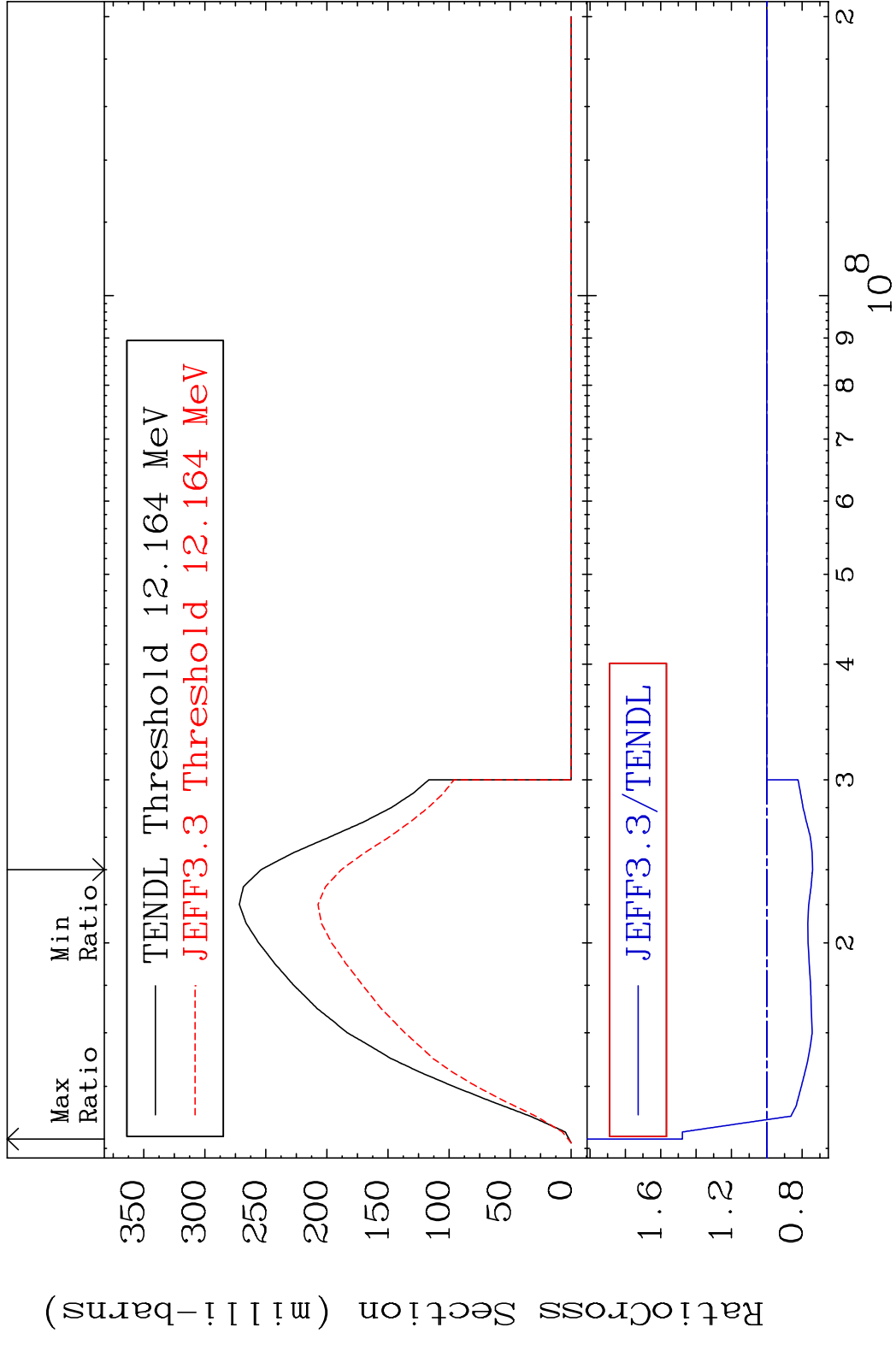




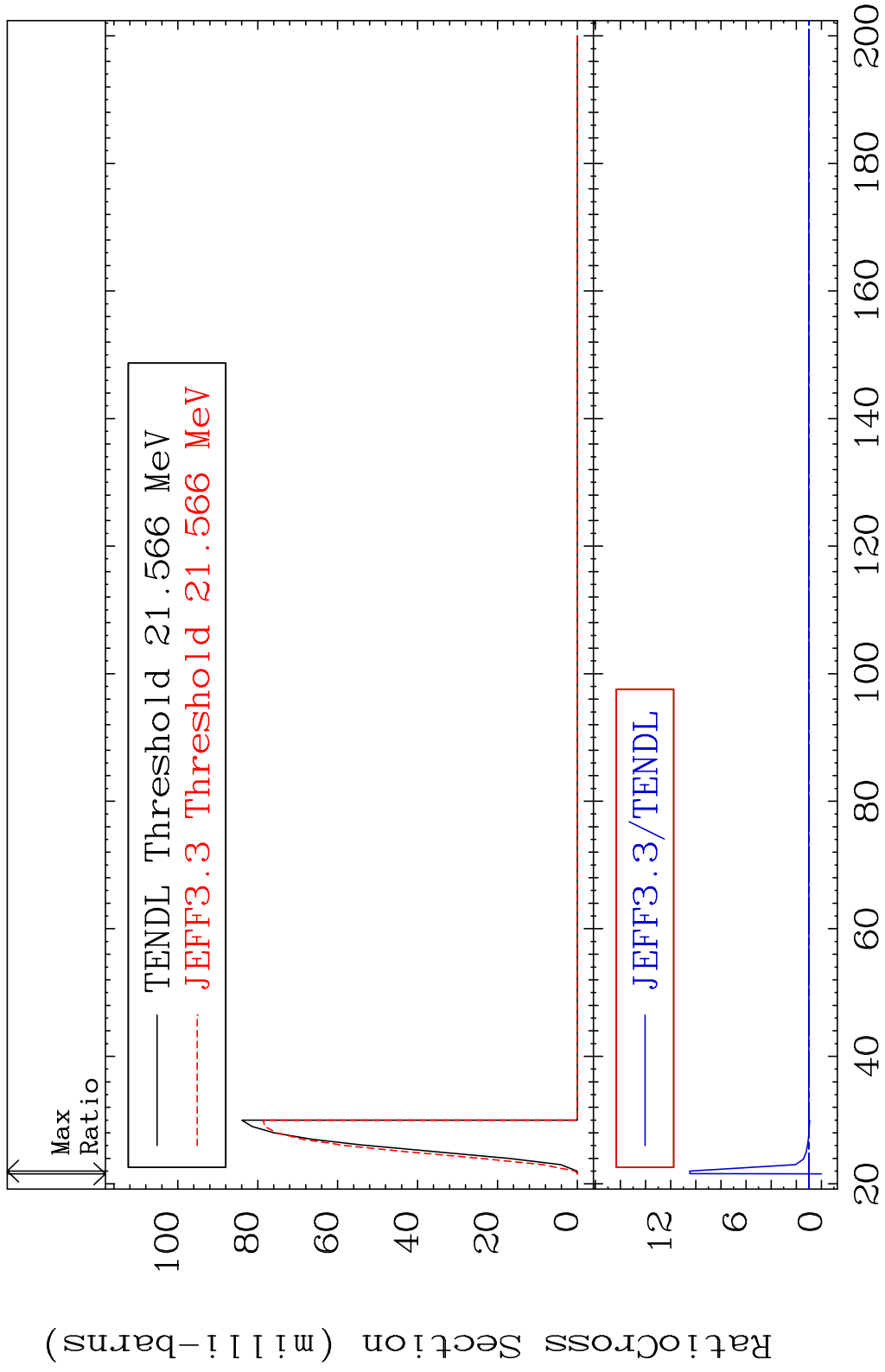


MAT 3919 (n,2n):39-Y -86g 39-Y -87  
 Radionuclide Production Cross Section 481.9 %



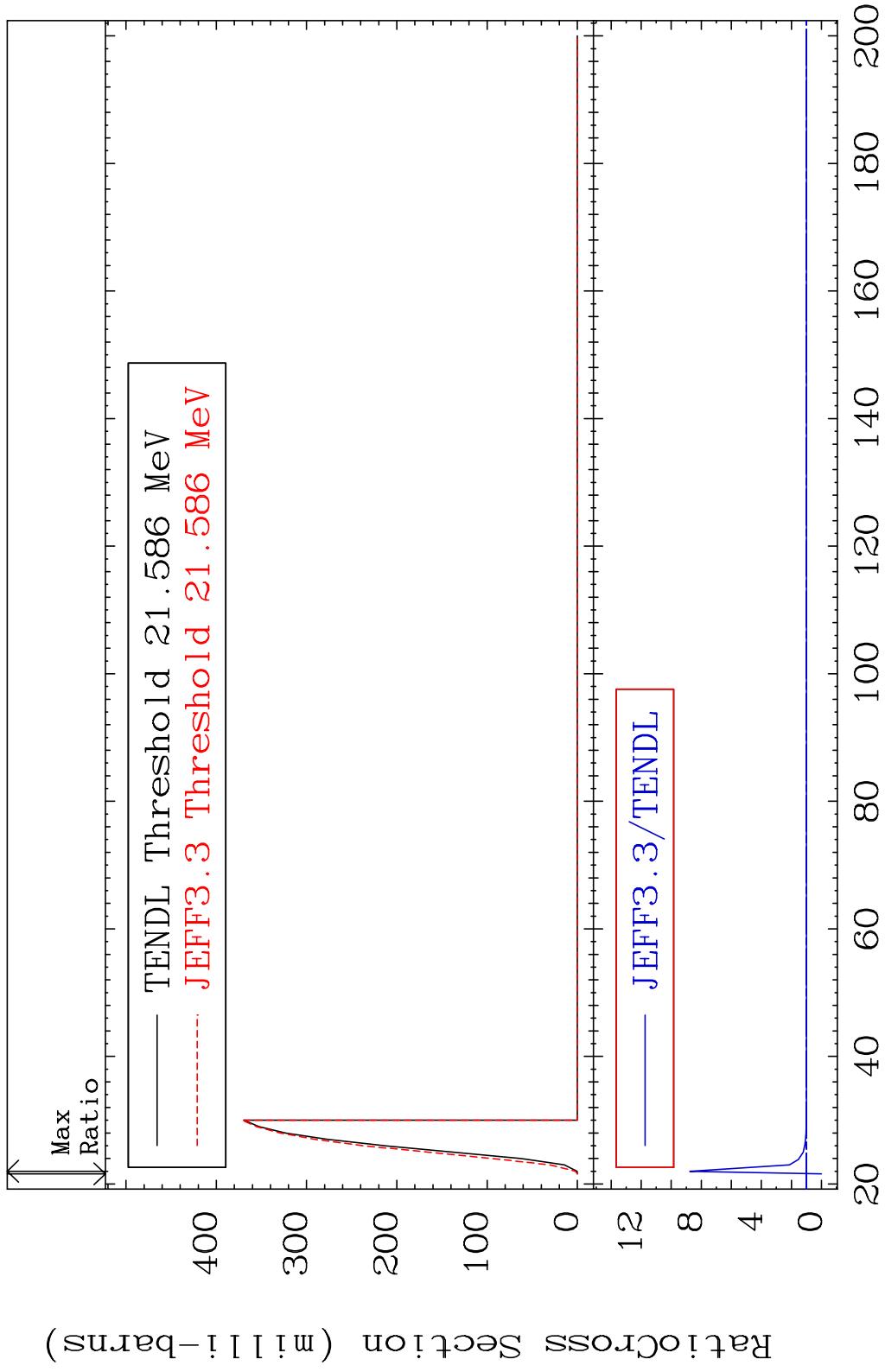


MAT 3919 (n,3n):39-Y -85g 39-Y -87  
 Radionuclide Production Cross Section 180.01 dth 948.4 %

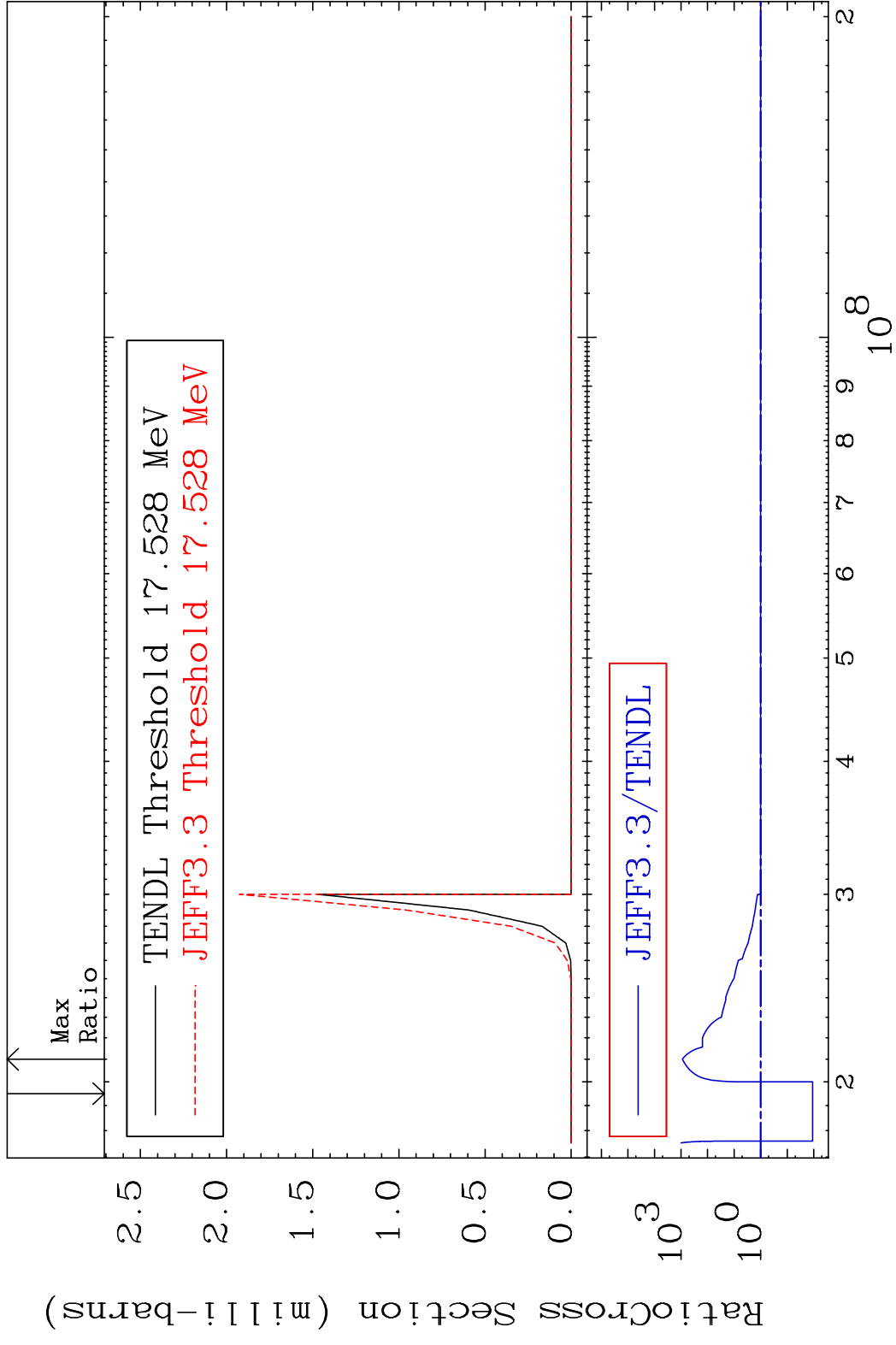


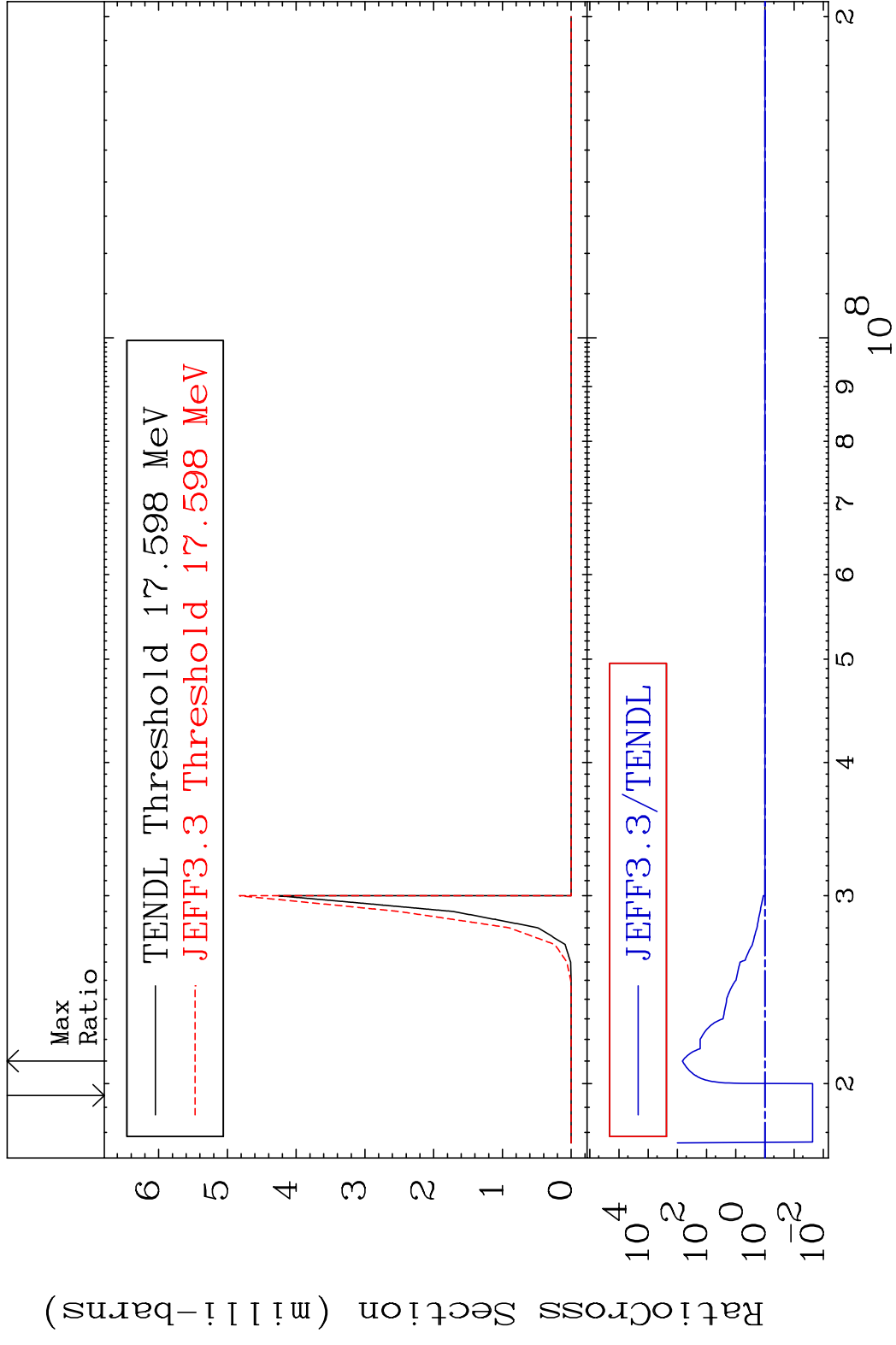
82 Incident Energy (MeV) 39-Y -87

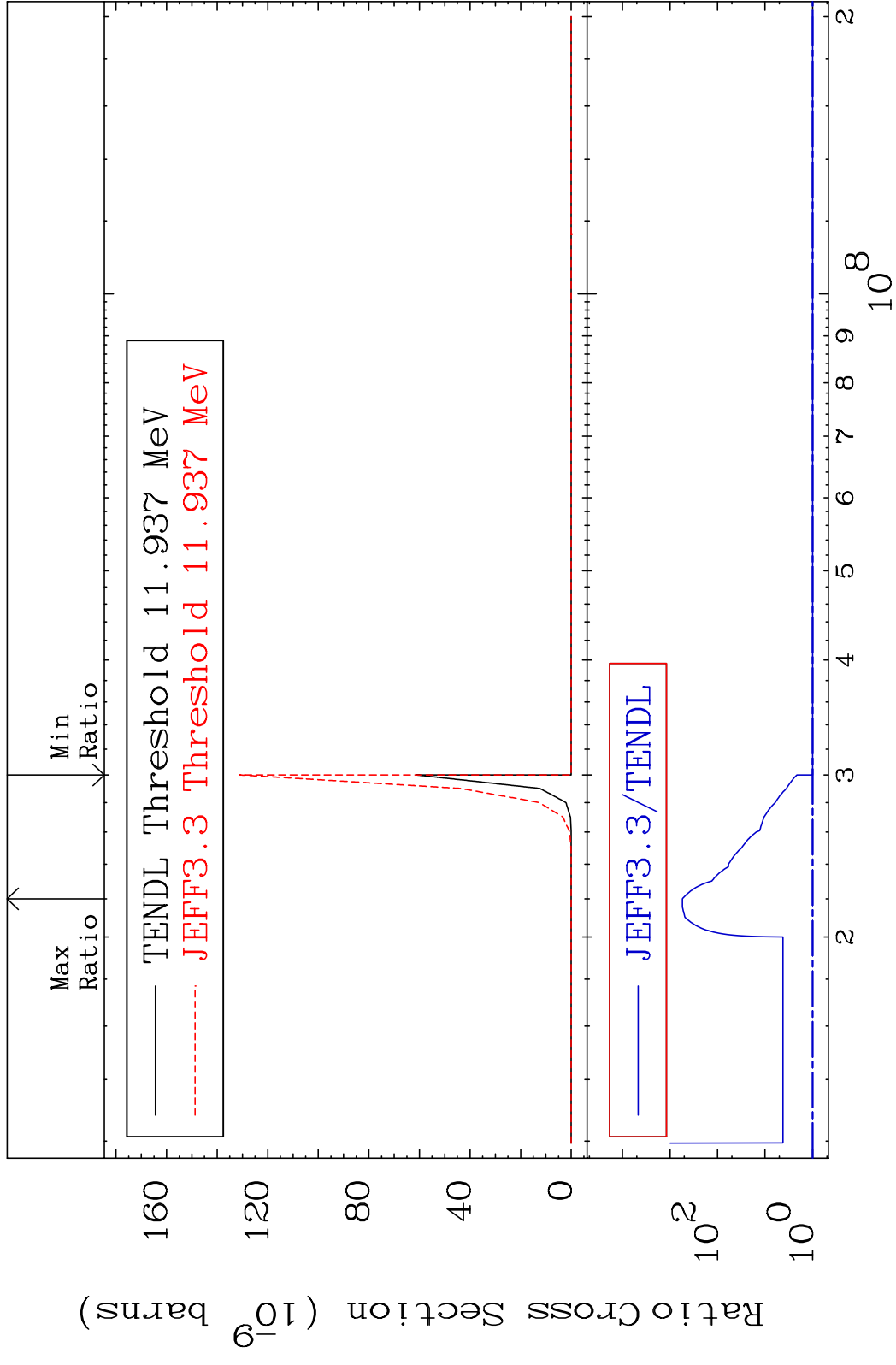
MAT 3919 (n,3n):39-Y -85m1 39-Y -87  
 Radionuclide Production Cross Section 180.01 d10 776.5 %

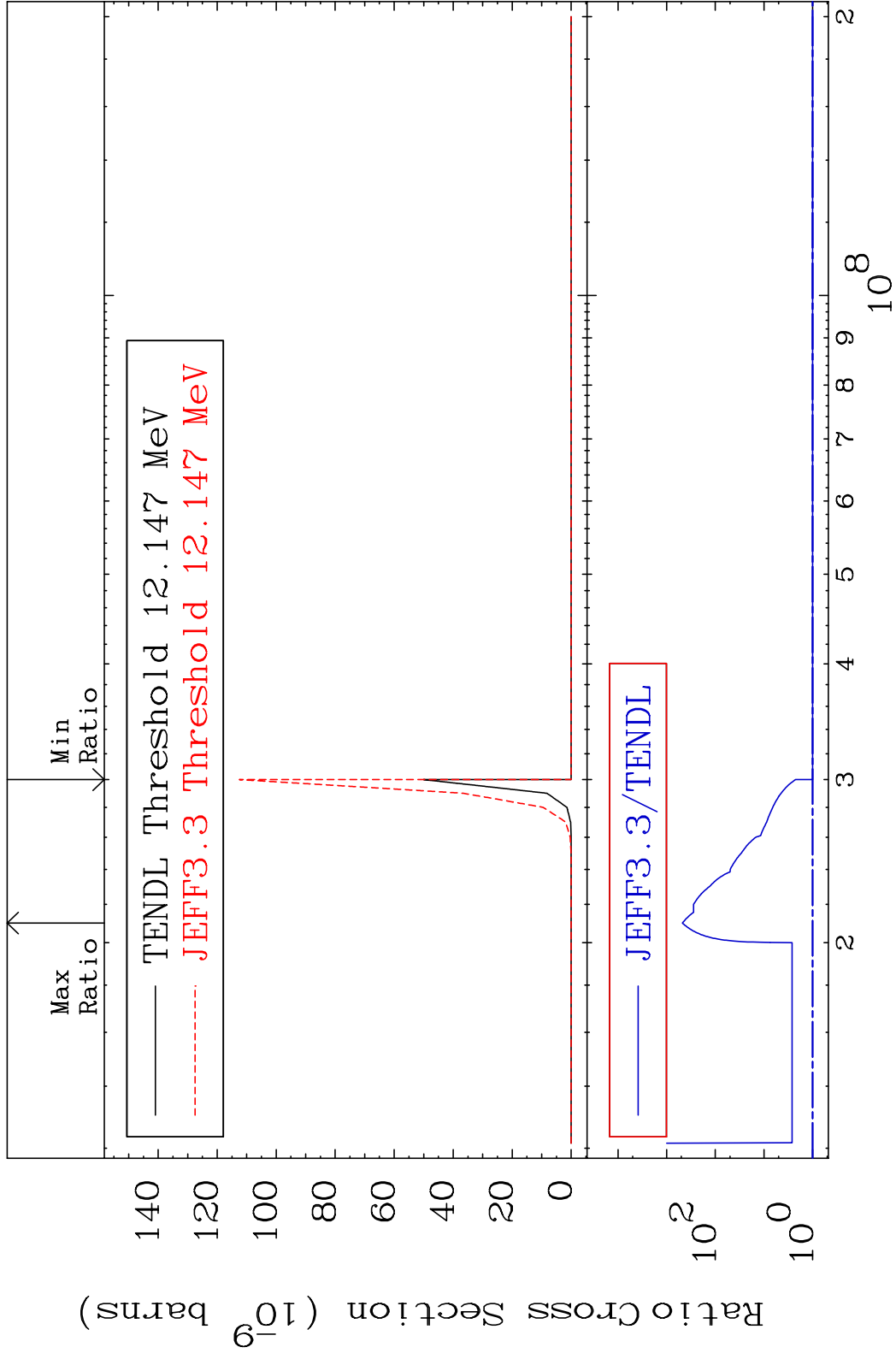


MAT 3919 (n,2n)  $\alpha$ :37-Rb-82g 39-Y -87  
 Radionuclide Production Cross Section 98e09 d10 9999. %



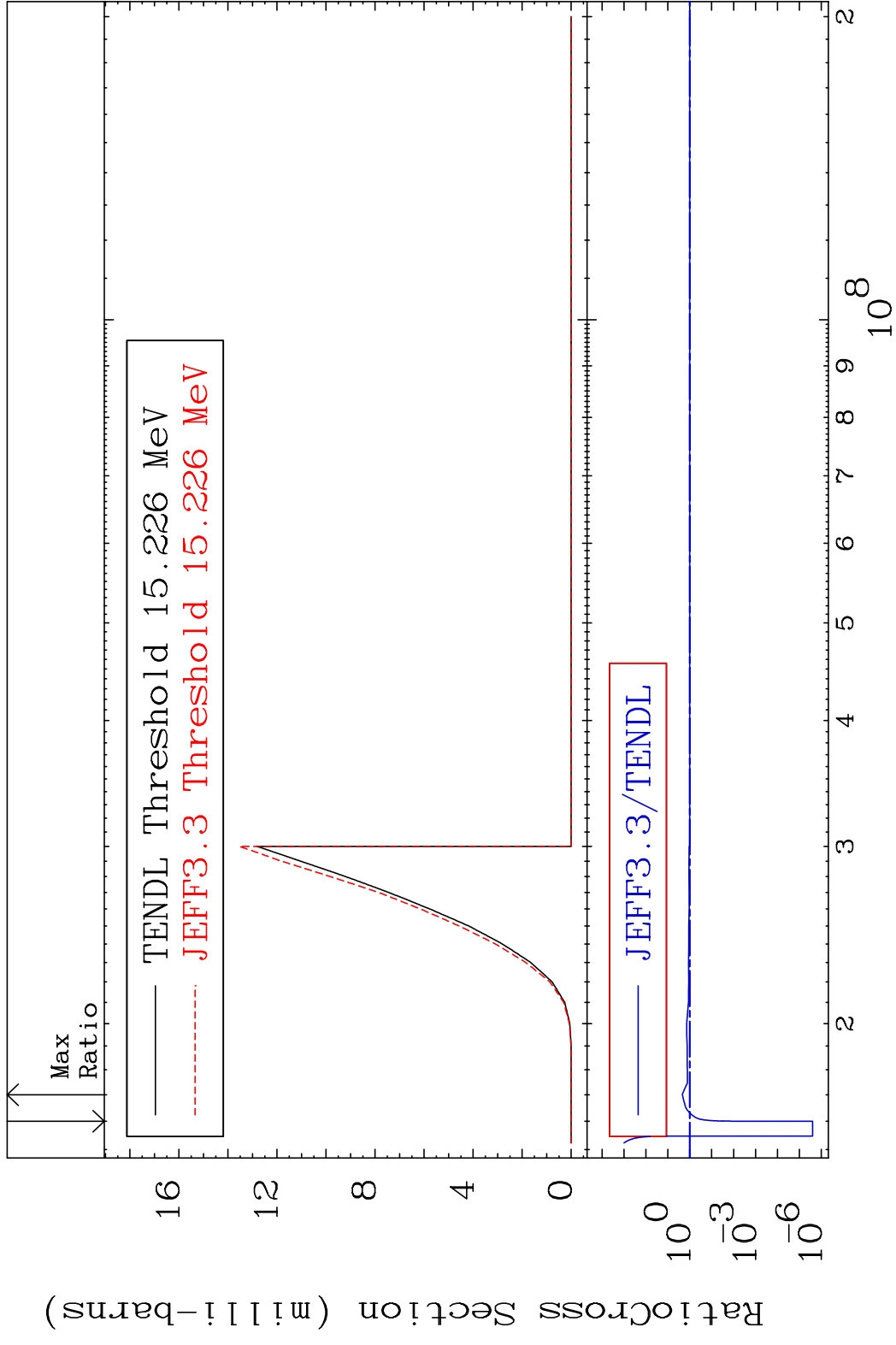


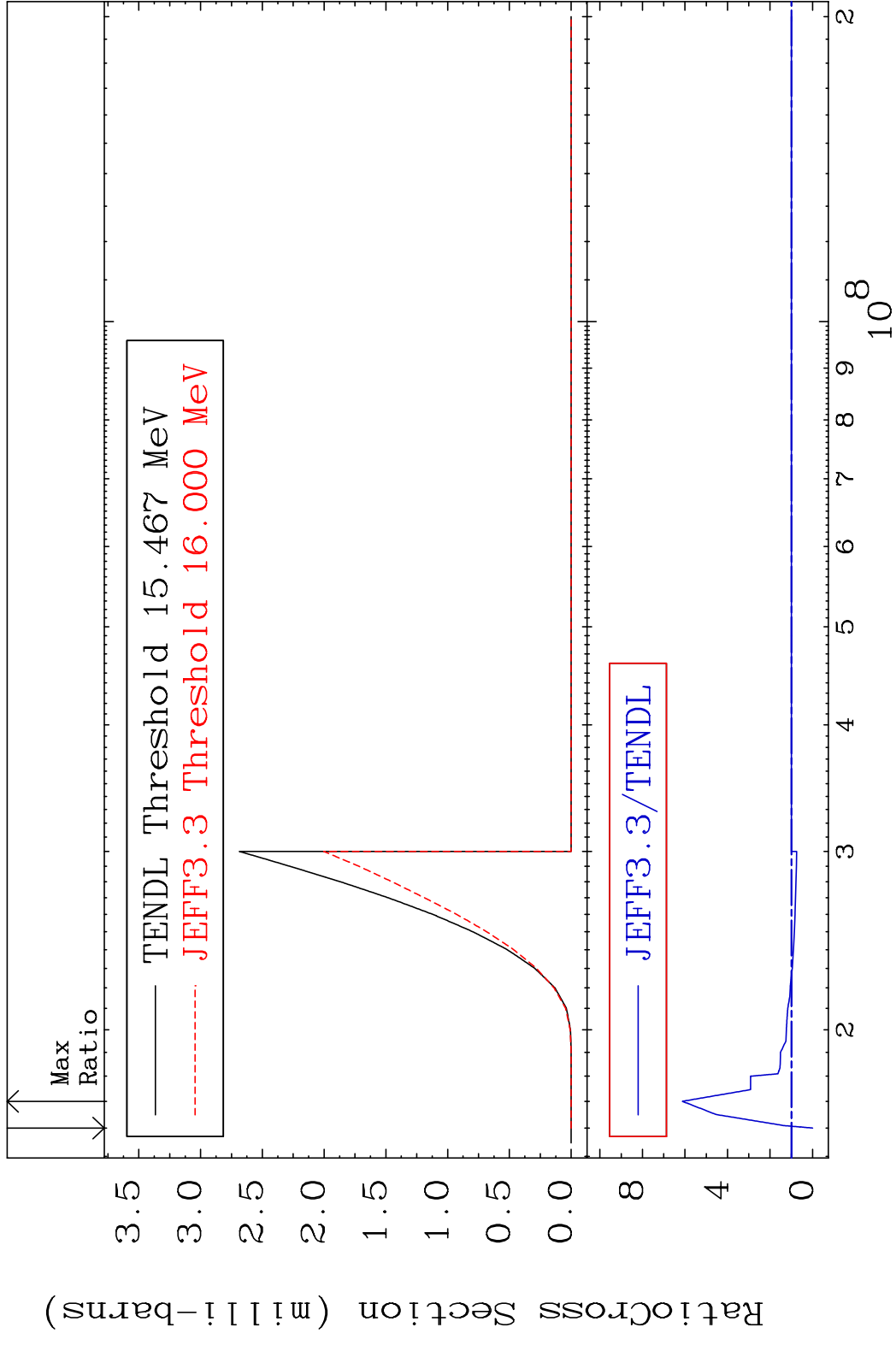




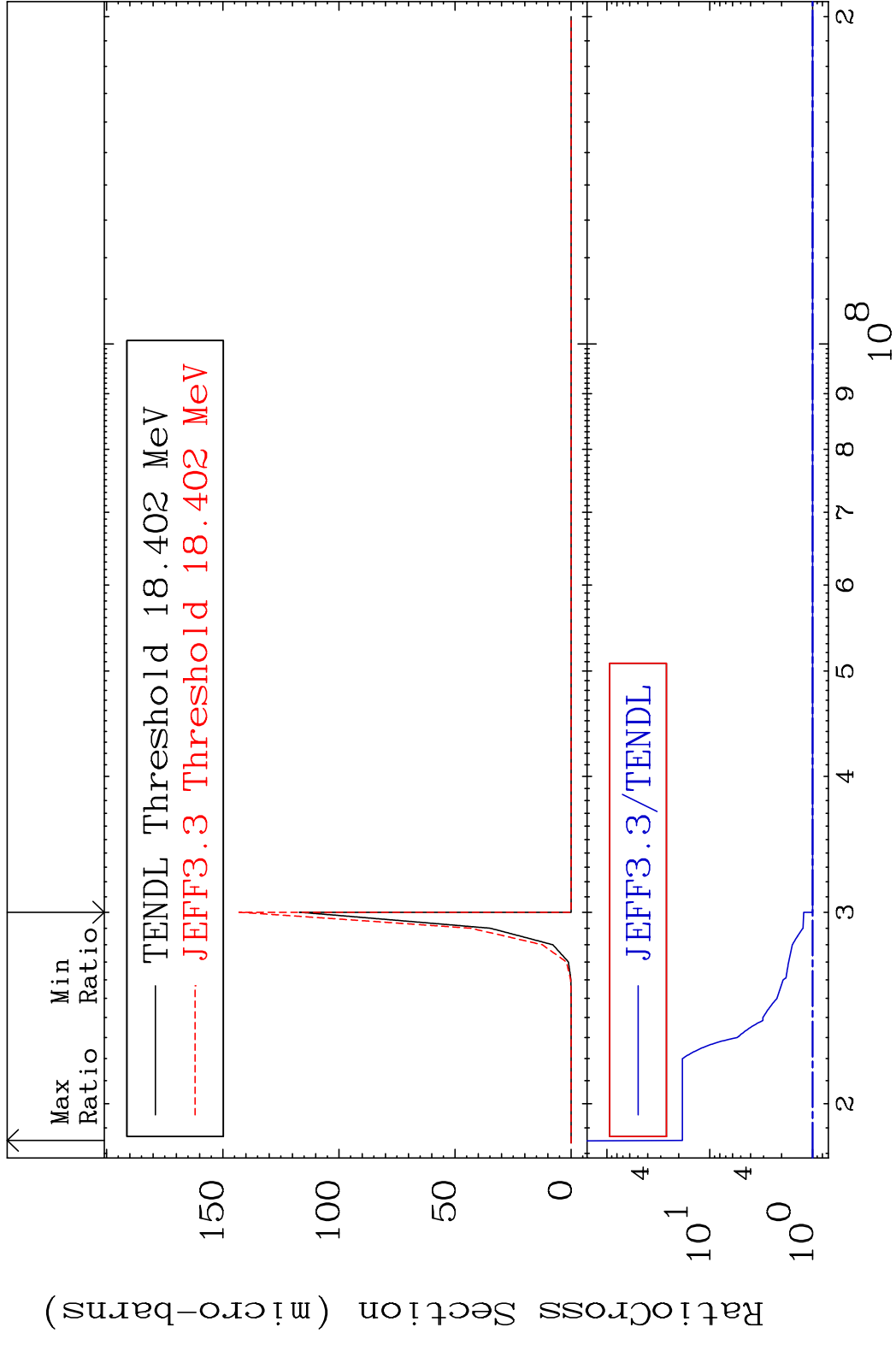


MAT 3919 (n, n') d:38-Sr-85g 39-Y -87  
 Radionuclide Production Cross Section 180.01 dth 116.9 %

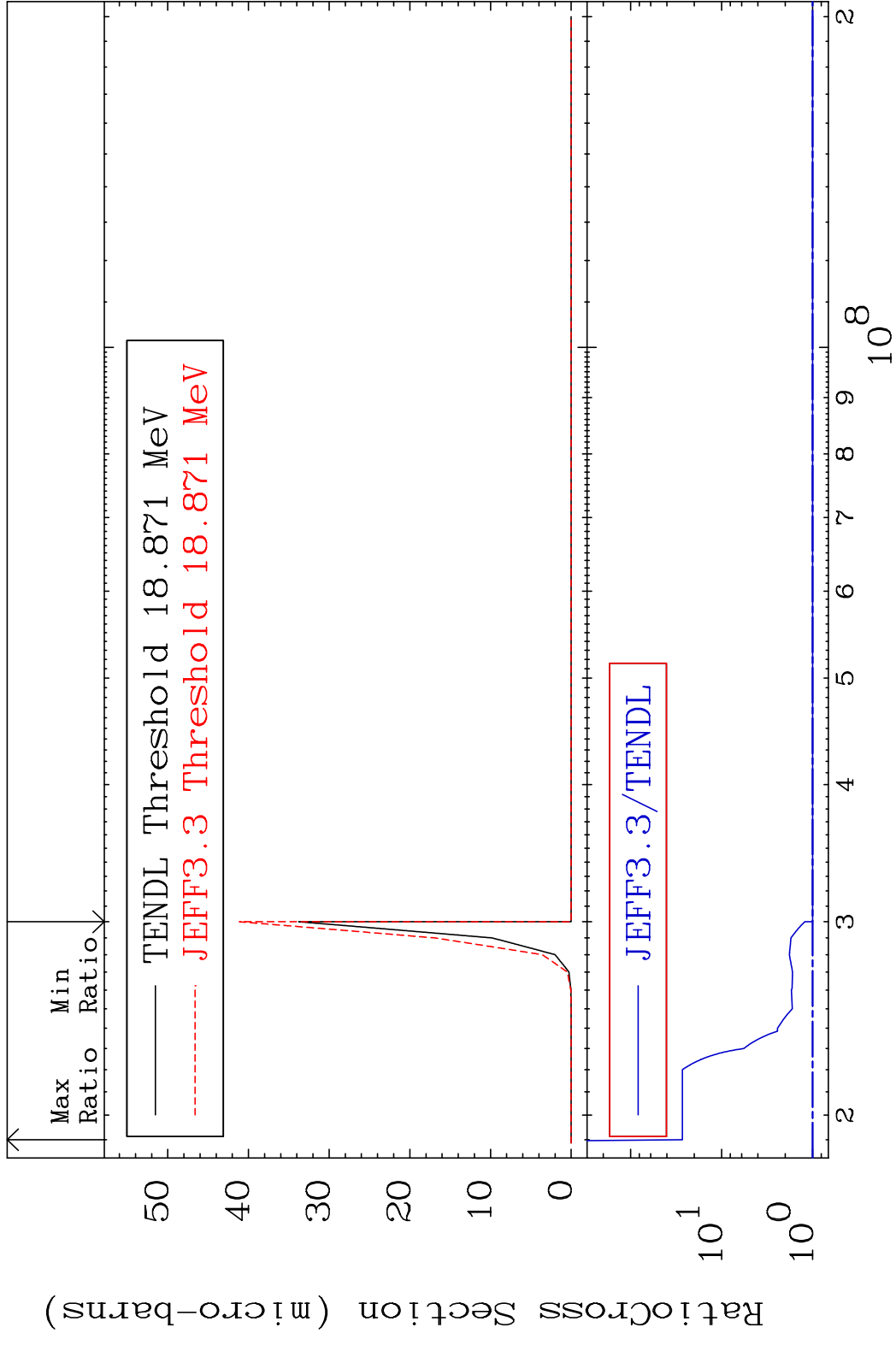




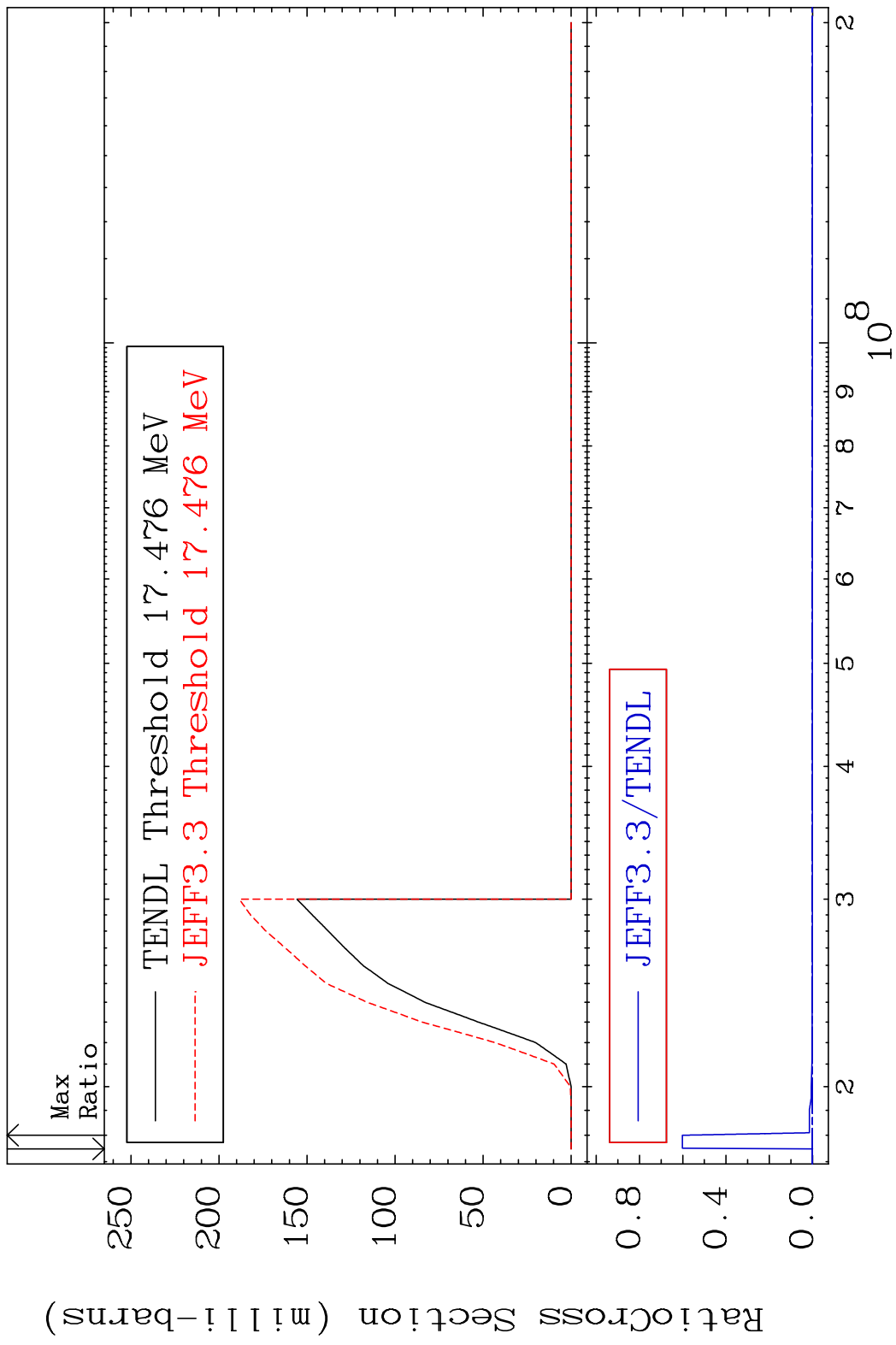
MAT 3919 (n, n') He-3:37-Rb-84g 39-Y -87  
 Radionuclide Production Cross Section 1746. %

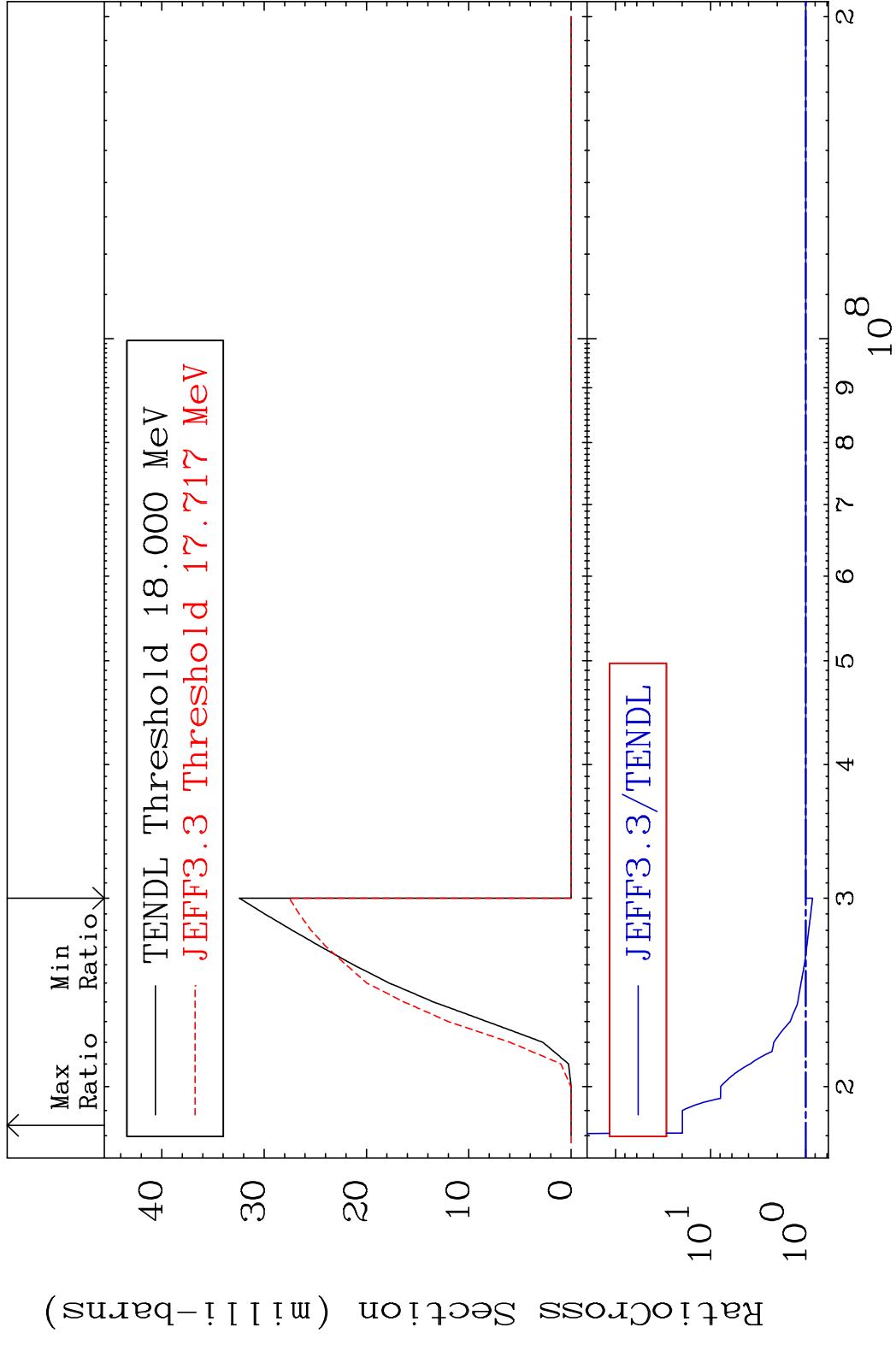


90 Incident Energy (eV) 39-Y -87

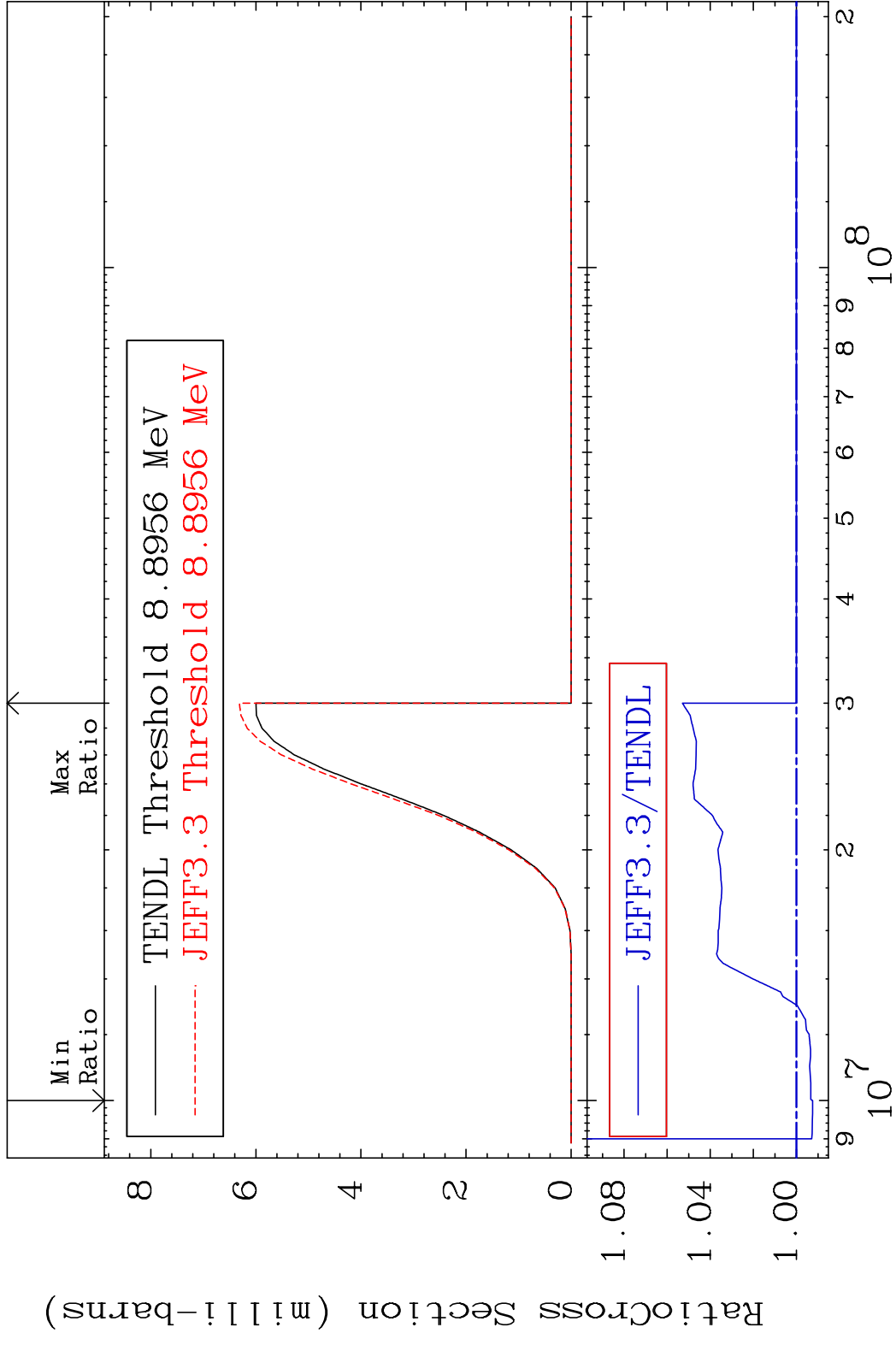


MAT 3919 (n,2n) p:38-Sr-85g 39-Y -87  
 Radionuclide Production Cross Section Ratio

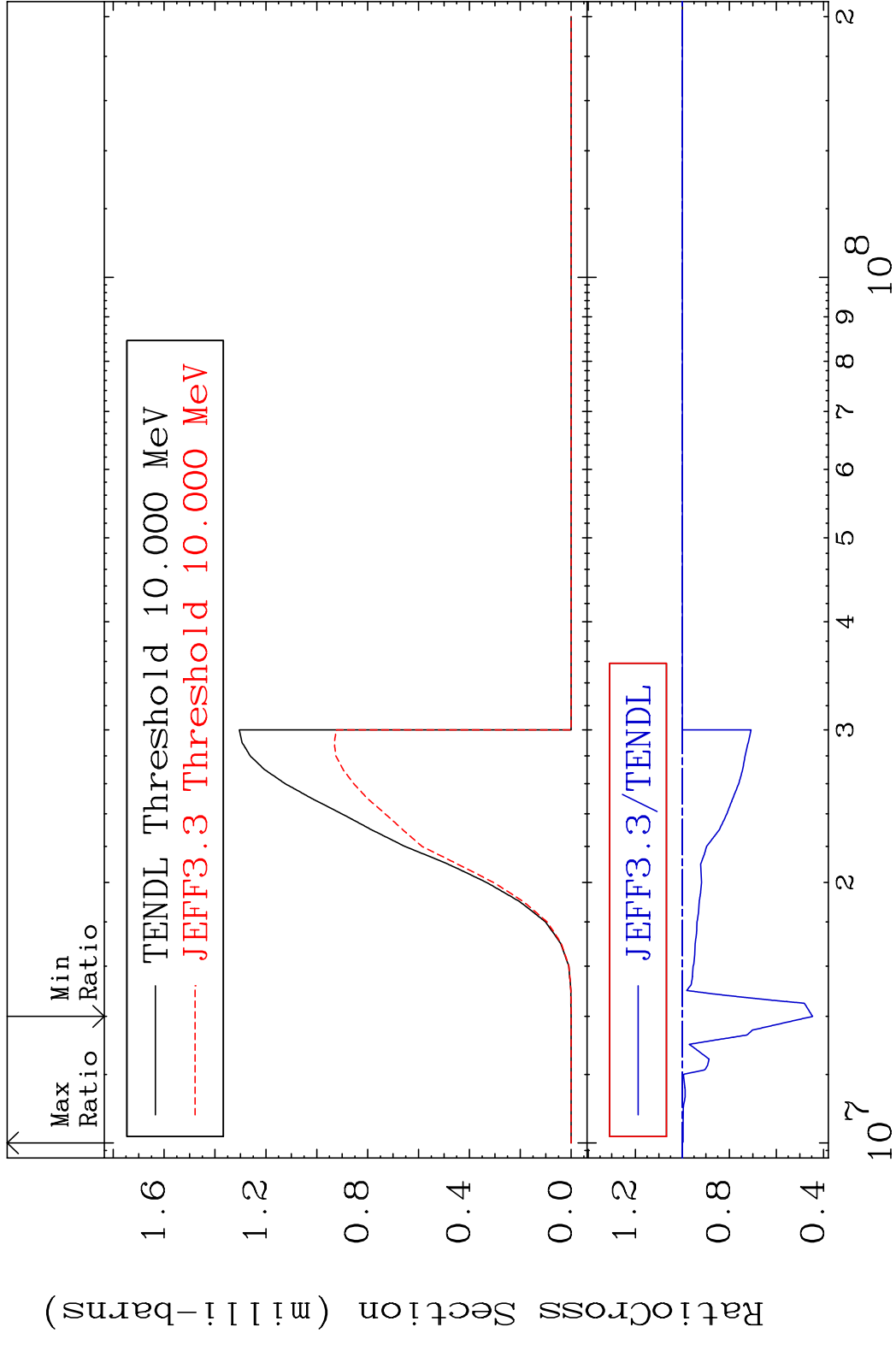




MAT 3919 (n, t):38-Sr-85g 39-Y -87  
 Radionuclide Production Cross-Section 5.297 %

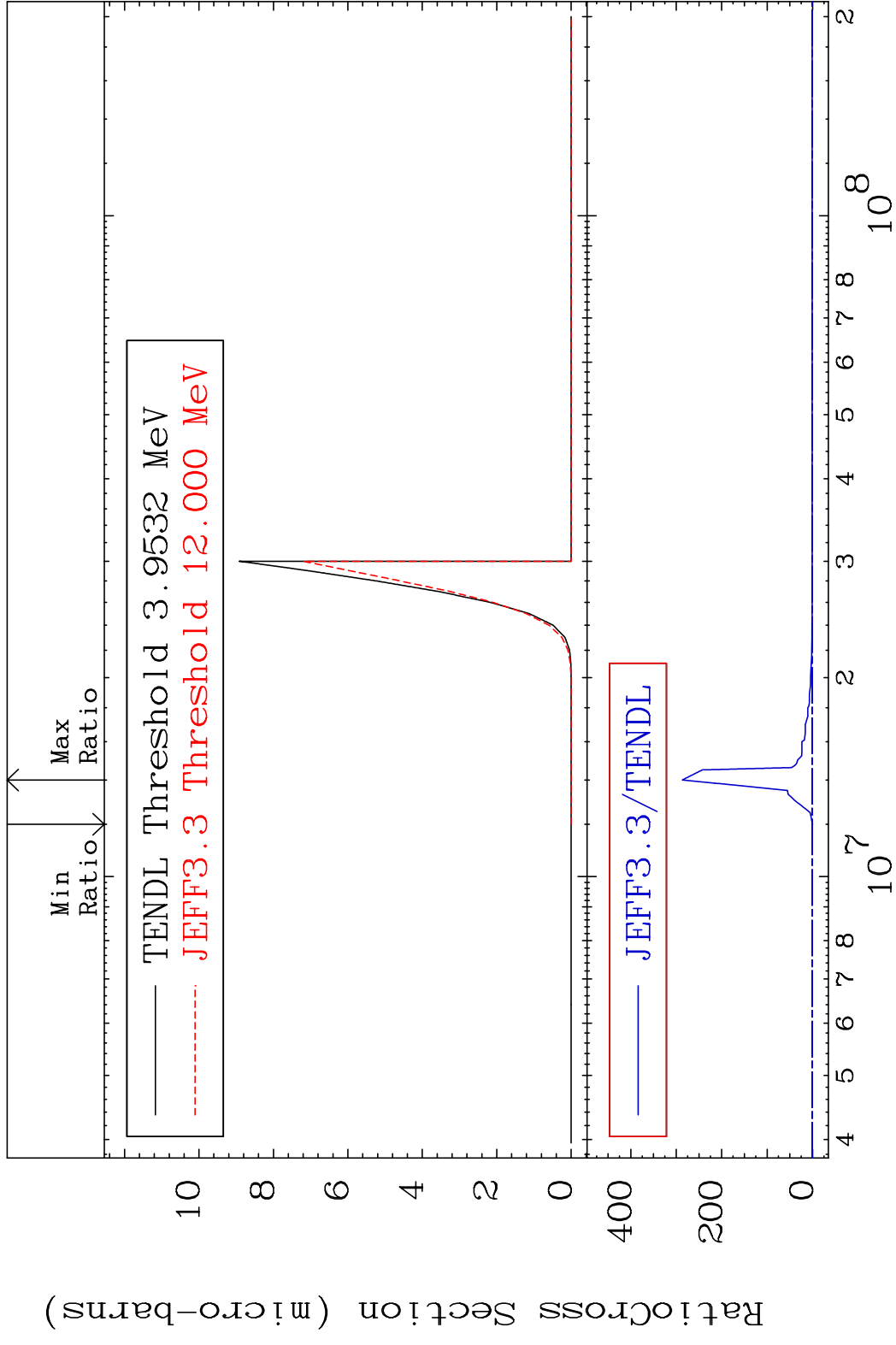


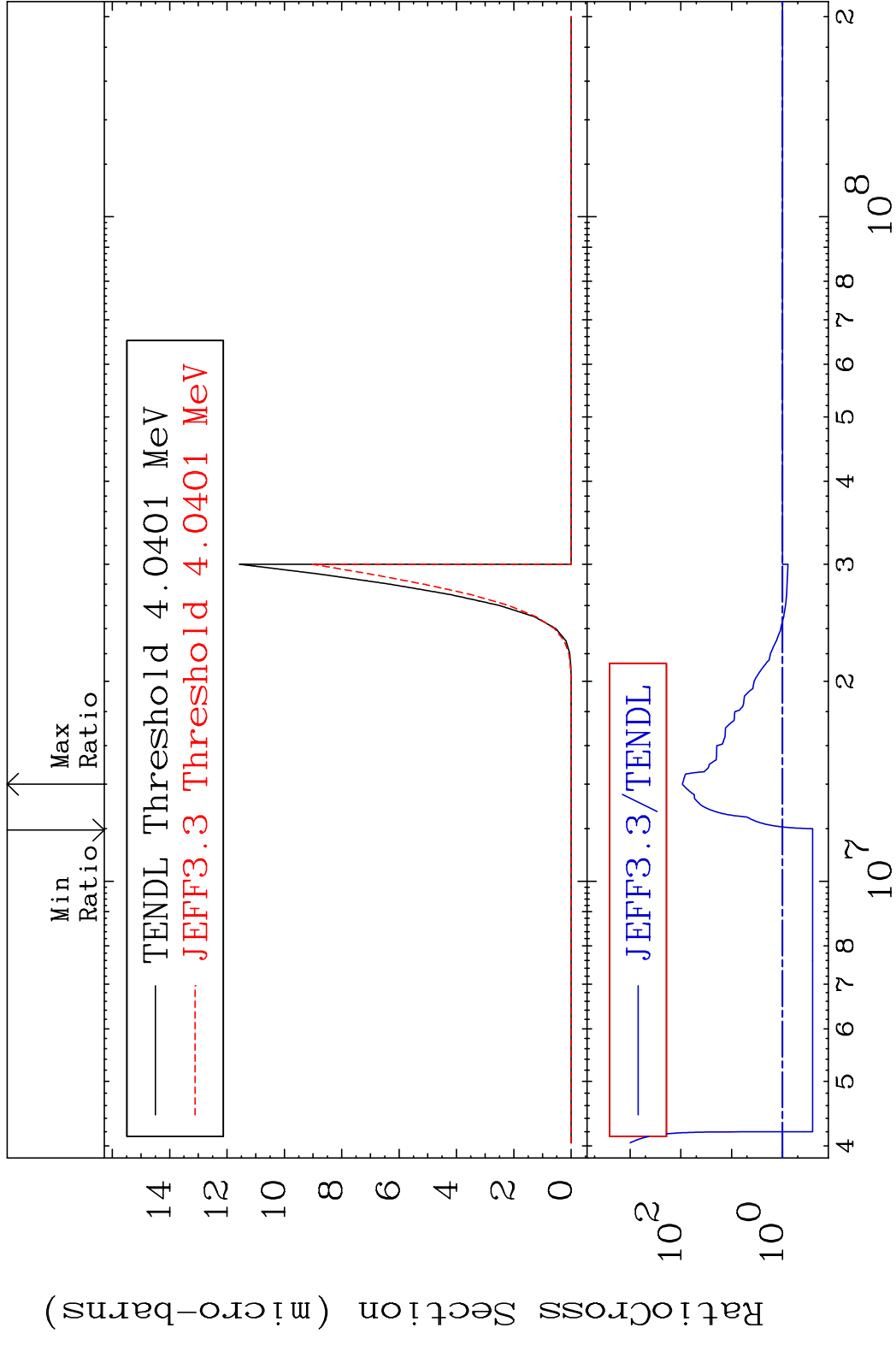
MAT 3919 (n,t):38-Sr-85m2 39-Y -87  
 Radionuclide Production Cross Section 0.000 %



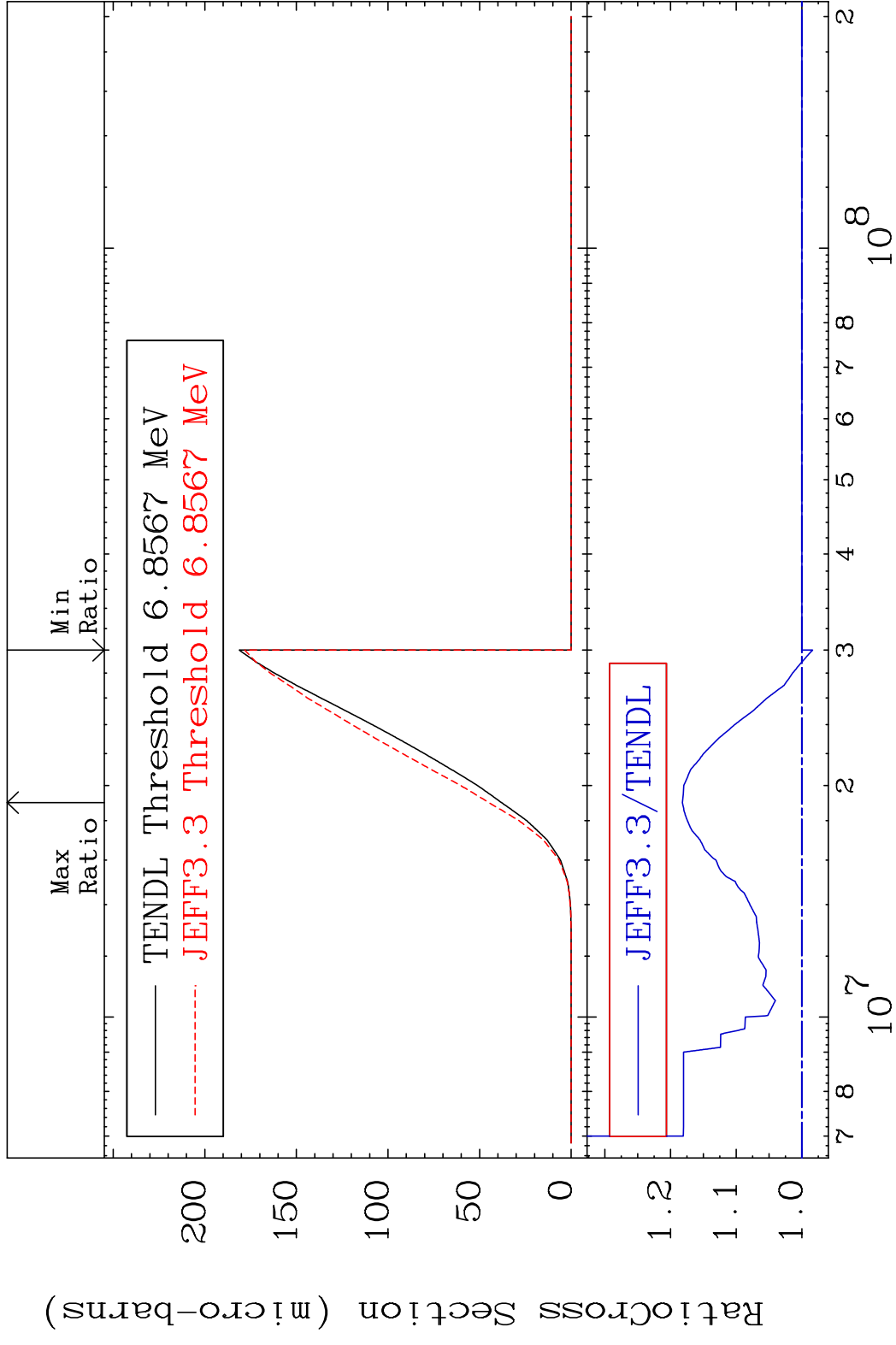
95 Incident Energy (eV) 39-Y -87



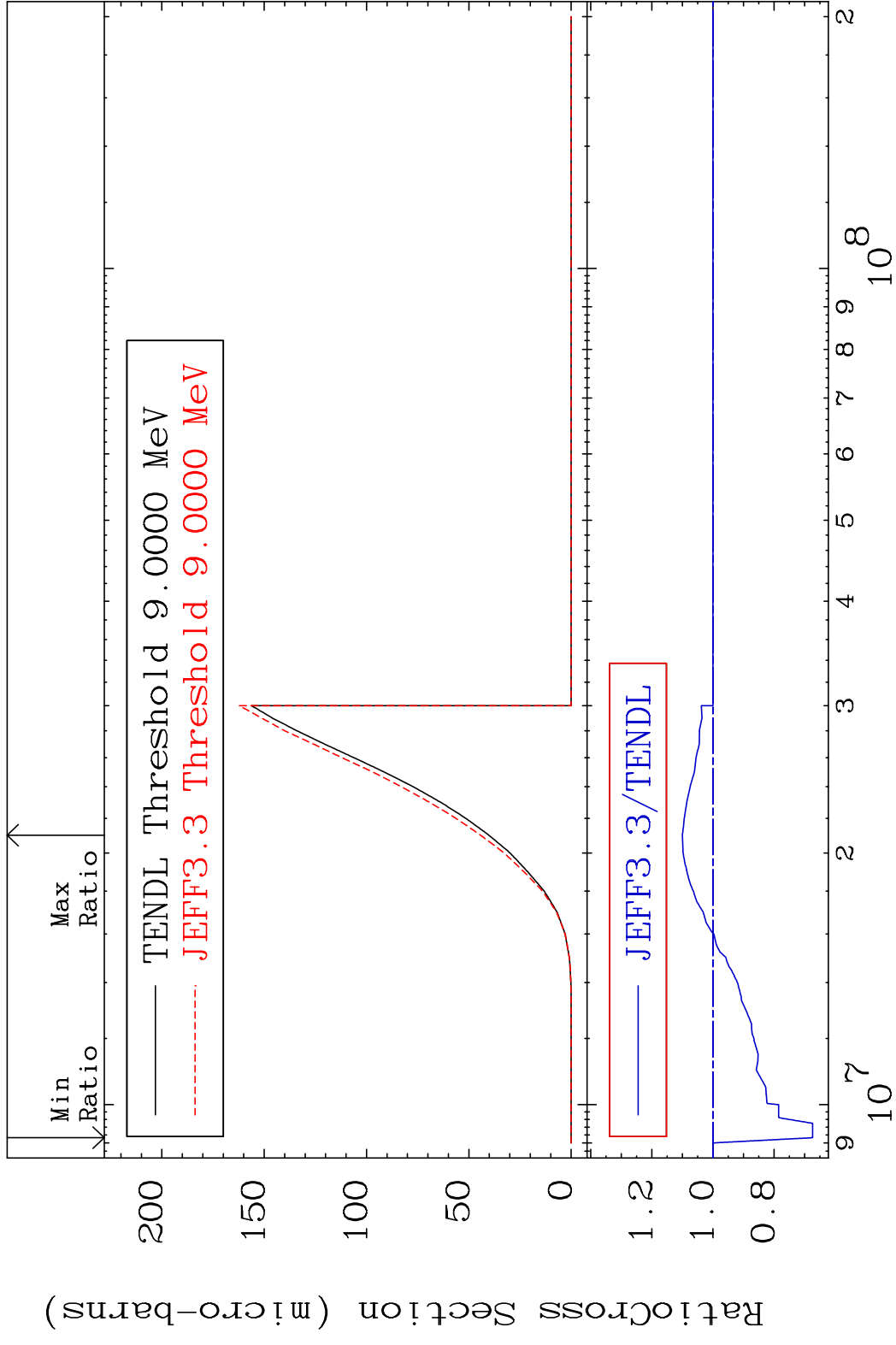




MAT 3919 (n,2p):37-Rb-86g 39-Y -87  
 Radionuclide Production Cross Section 18.21 %

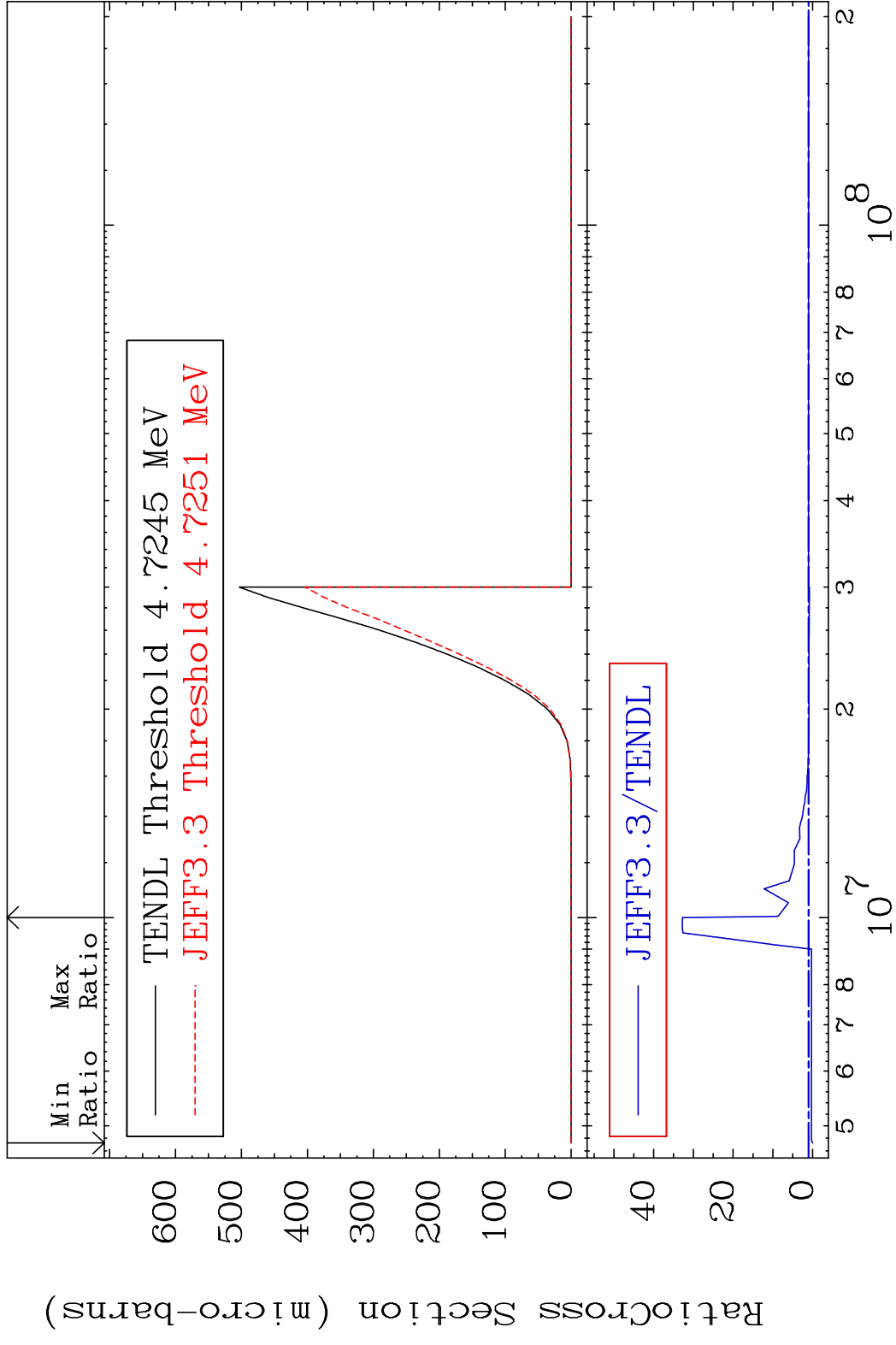


MAT 3919 (n,2p):37-Rb-86m2 39-Y -87  
 Radionuclide Production Cross Section 10.00 %



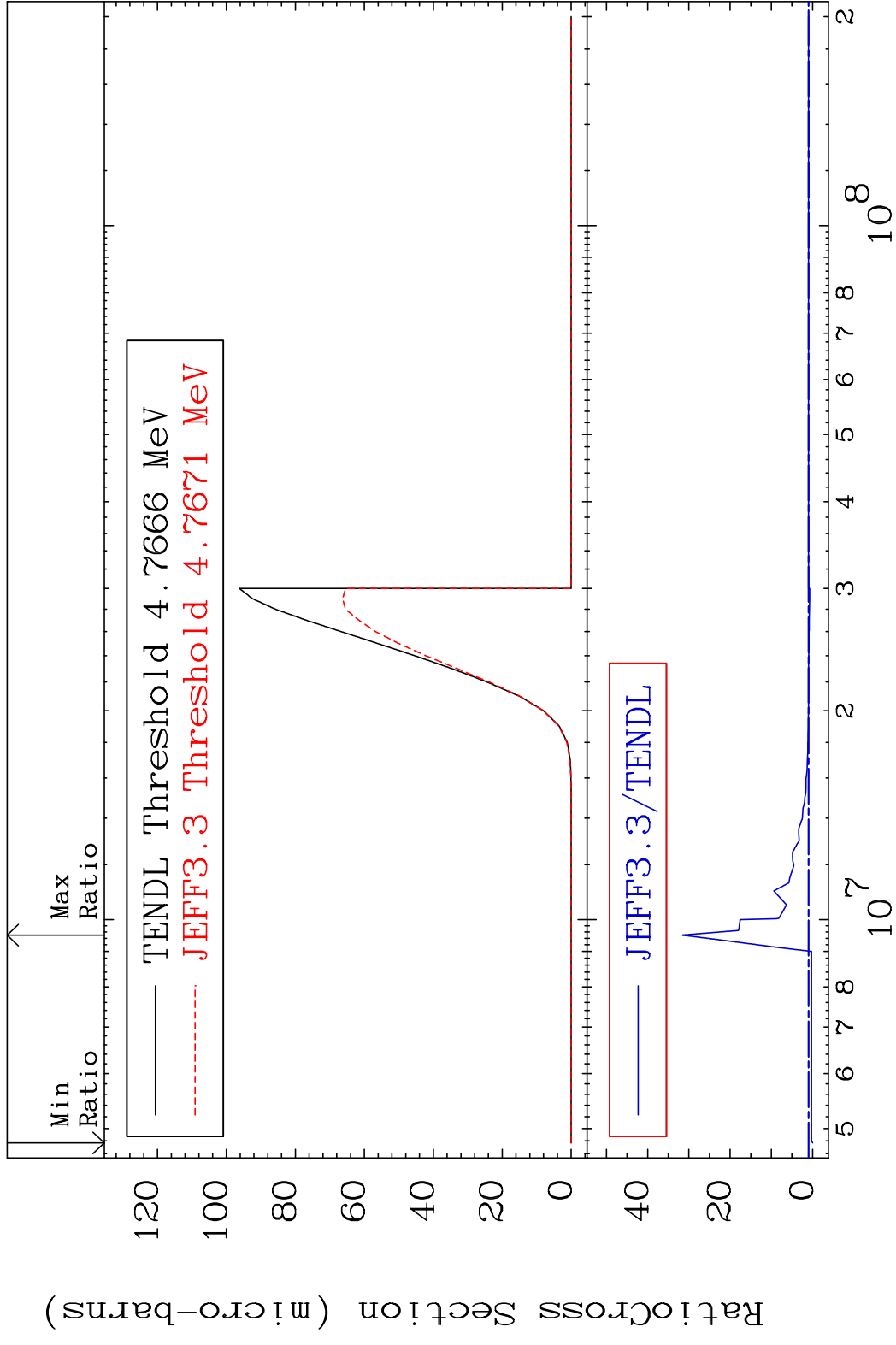
99 39-Y -87

MAT 3919 (n, p)  $\alpha$ :36-Kr-83g 39-Y -87  
 Radionuclide Production Cross Section 1800 d to 3178. %



100 Incident Energy (eV) 39-Y -87

MAT 3919 (n,p)  $\alpha$ :36-Kr-83m2 39-Y -87  
 Radionuclide Production Cross Section Ratio 3058. %



MAT 3919 (n, p) t:37-Rb-84g 39-Y -87  
 Radionuclide Production Cross Section 259.9 %

