

Program Complot  
(Version 2021-1)

by

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Press Mouse Button to Start

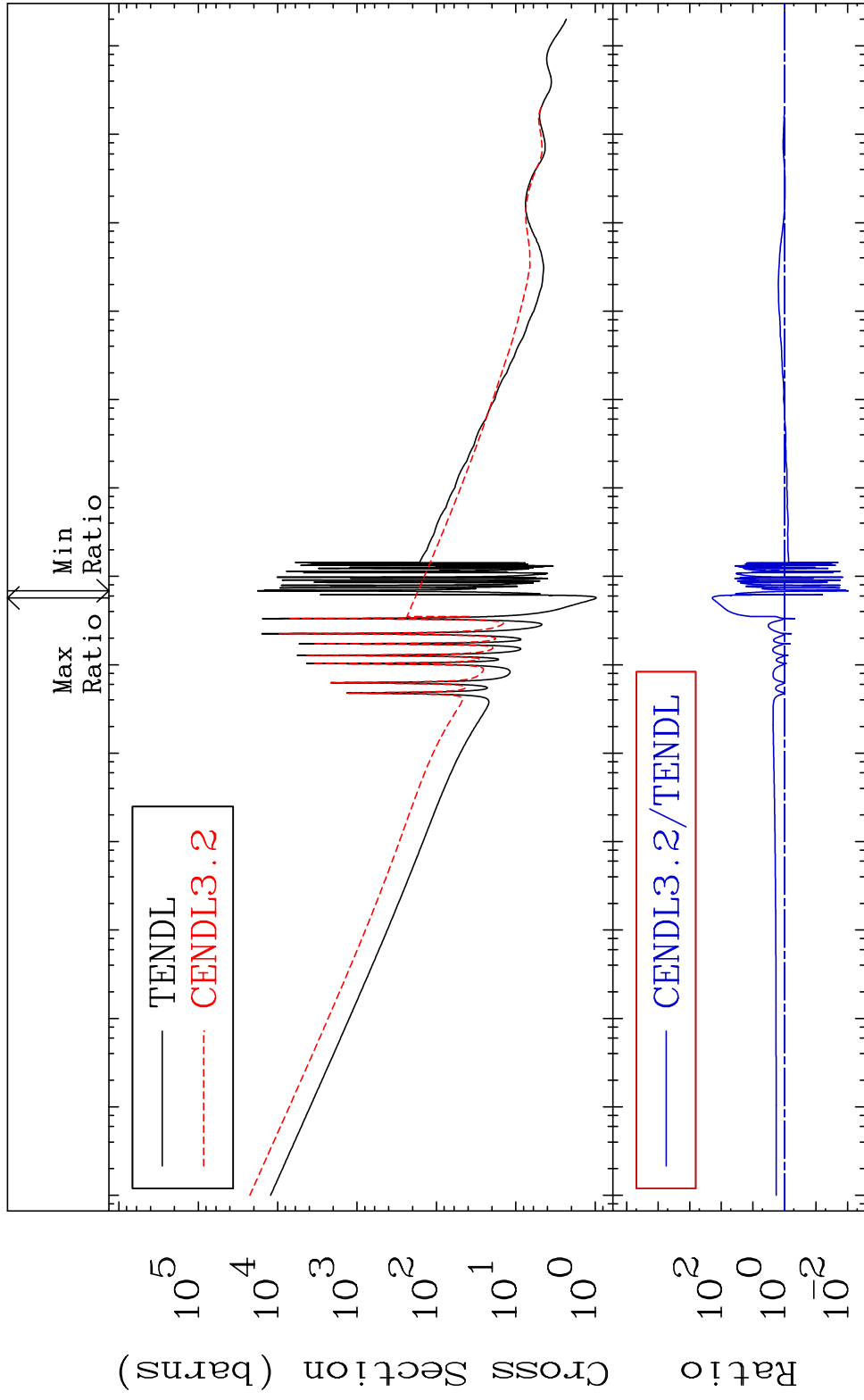
MAT 6040

Total

60-Nd-147

Cross Section

-99.05 To 9999. %



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)

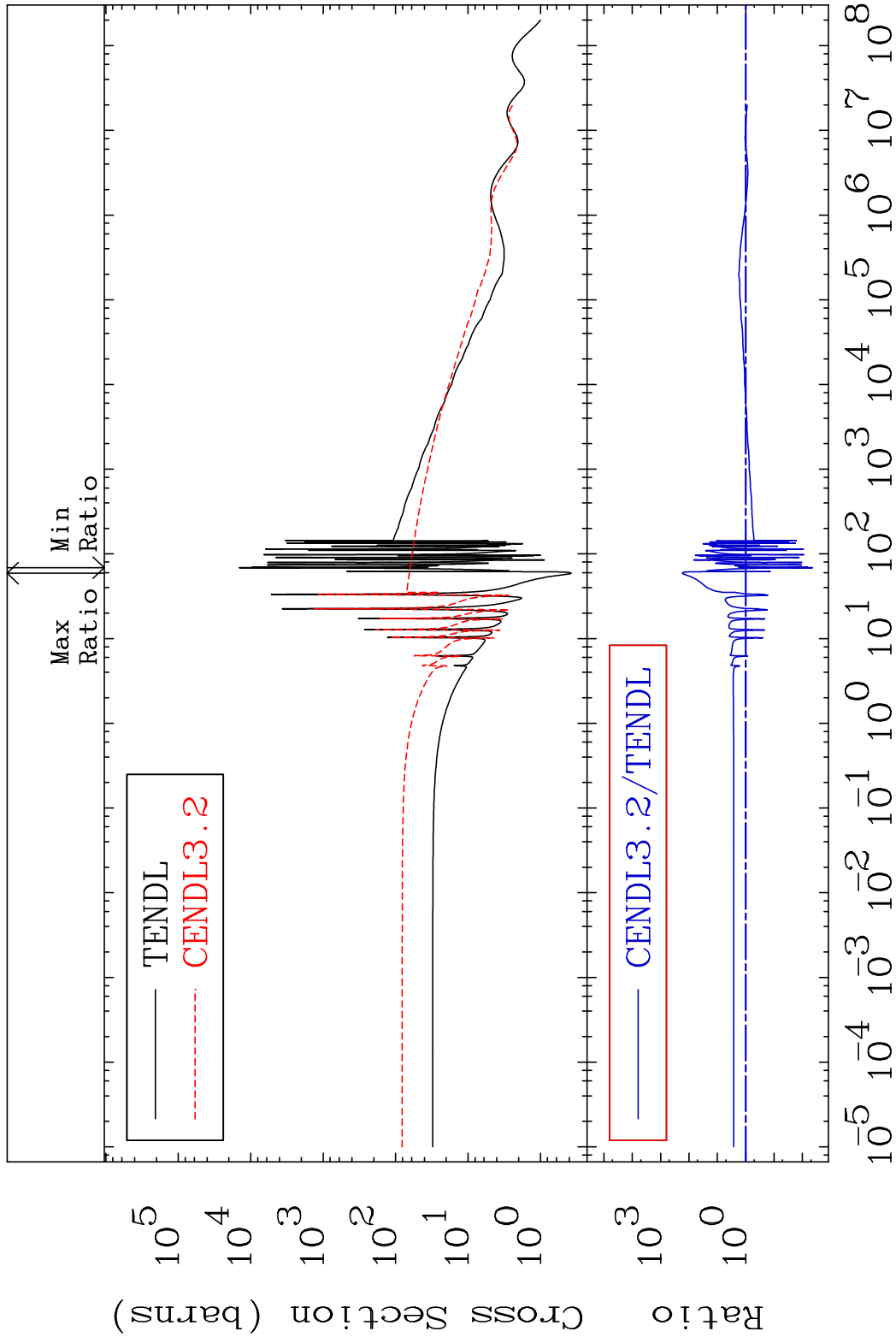
60-Nd-147

MAT 6040

Elastic

60-Nd-147

Cross Section -99.56 To 9999. %

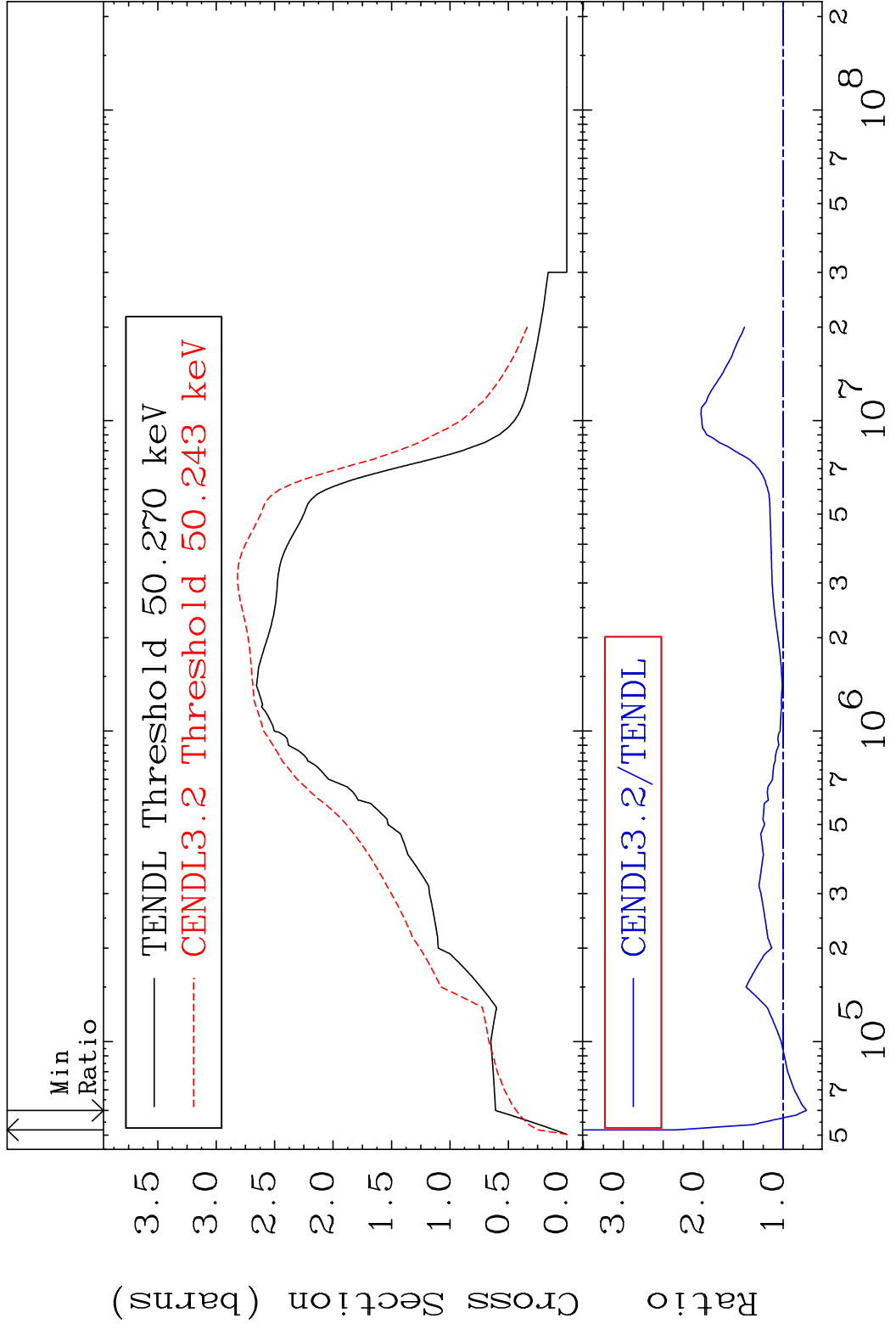


2

Incident Energy (eV)

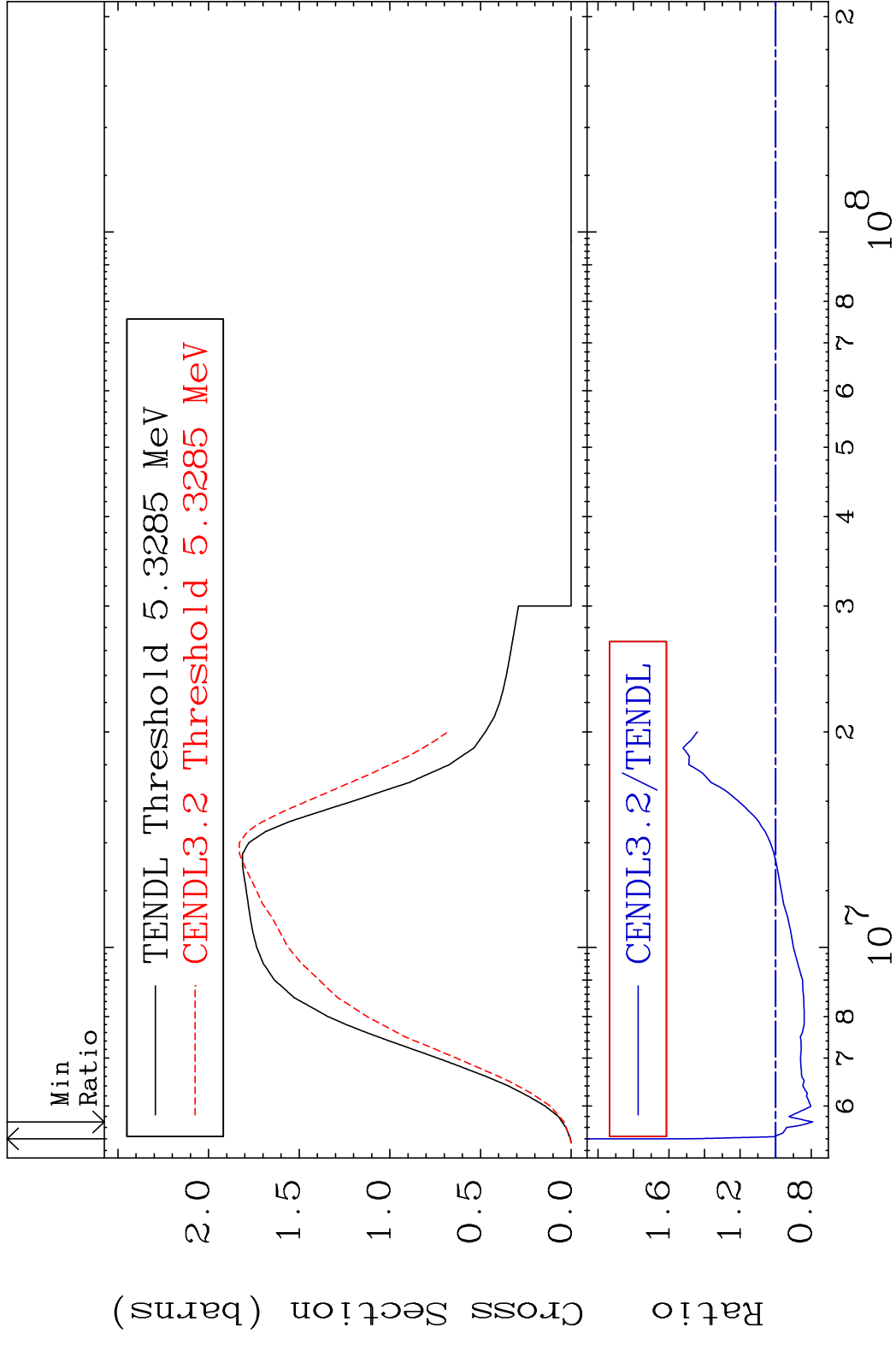
60-Nd-147

MAT 6040 Inelastic 60-Nd-147  
 Cross Section -29.06 To 132.6 %



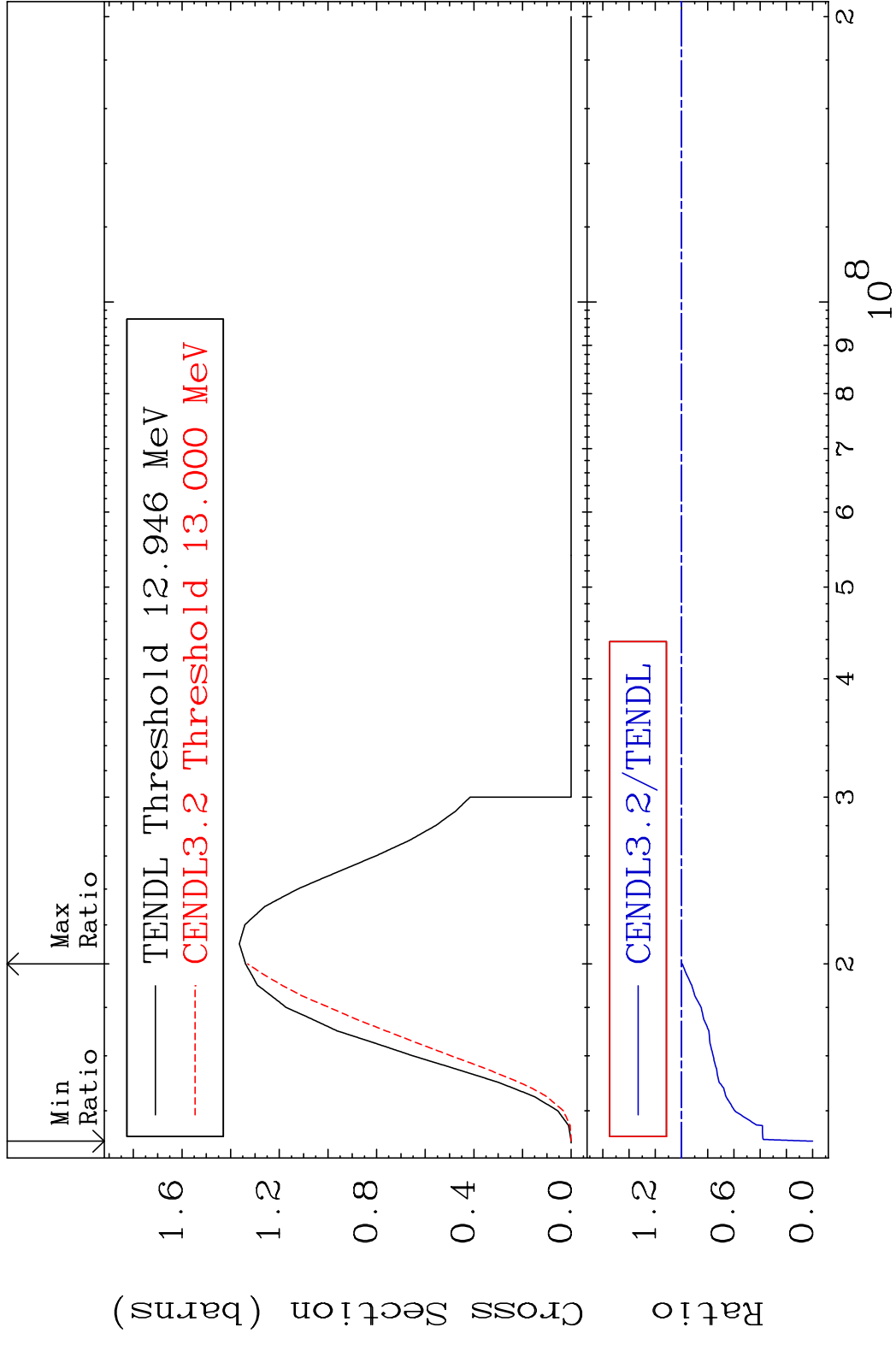
3 Incident Energy (eV) 60-Nd-147

MAT 6040 (n,2n) 60-Nd-147  
 Cross Section -20.74 To 52.50 %



4 Incident Energy (eV) 60-Nd-147

MAT 6040 (n,3n) 60-Nd-147  
 Cross Section -100.0 To -0.643%

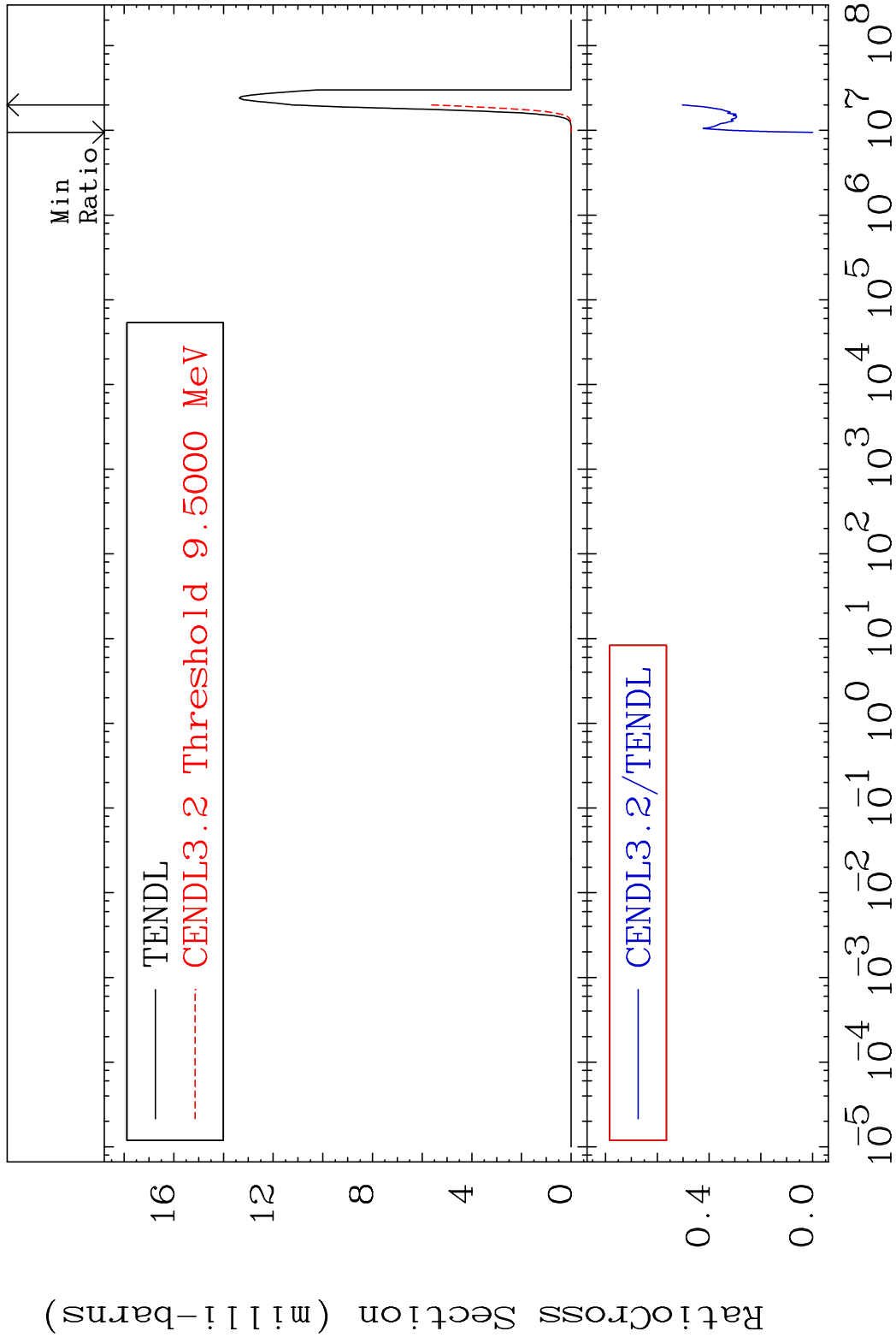


MAT 6040

(n, n')  $\alpha$

60-Nd-147

Cross Section -100.0 To -49.70%

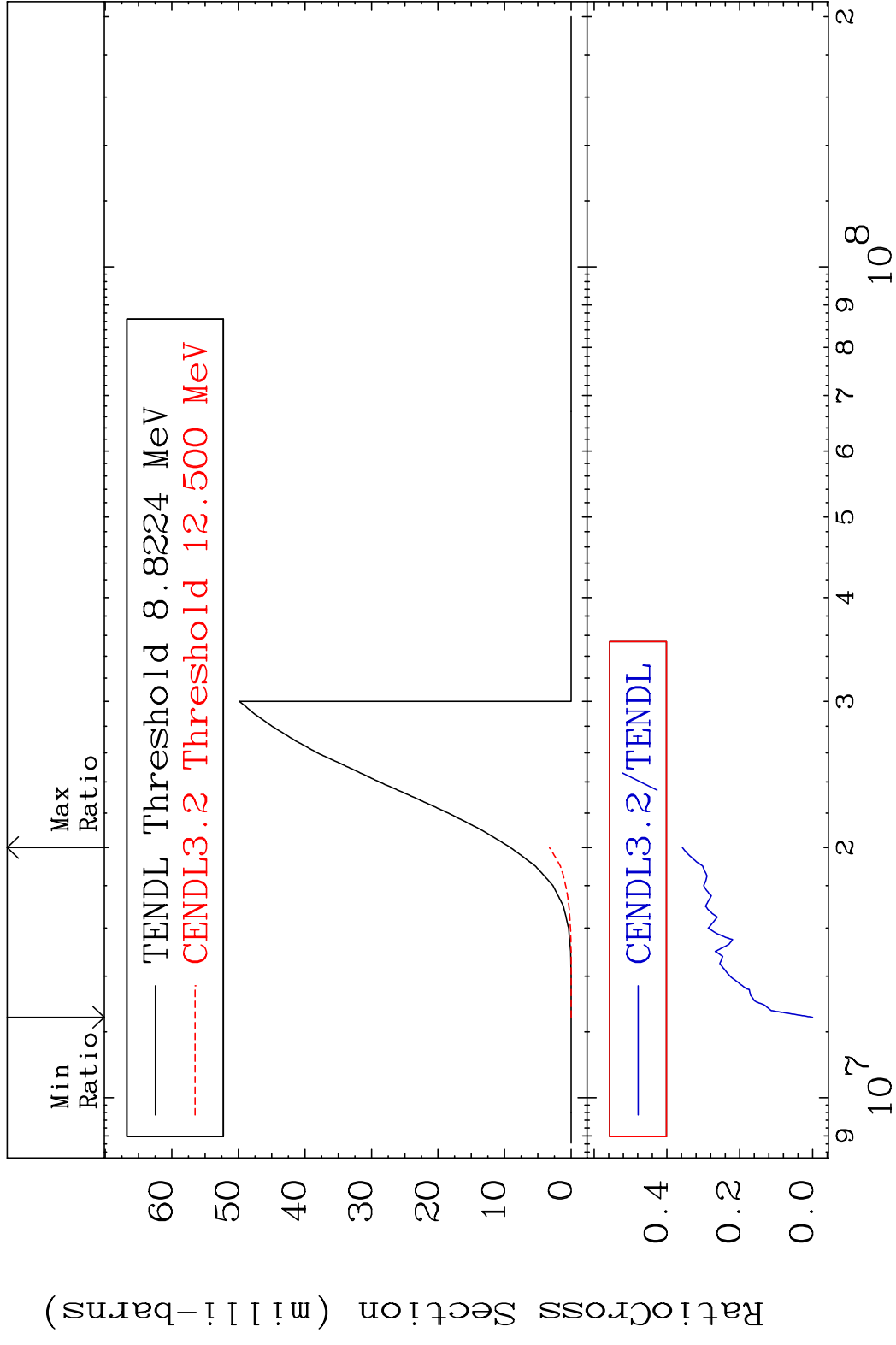


6

Incident Energy (eV)

60-Nd-147

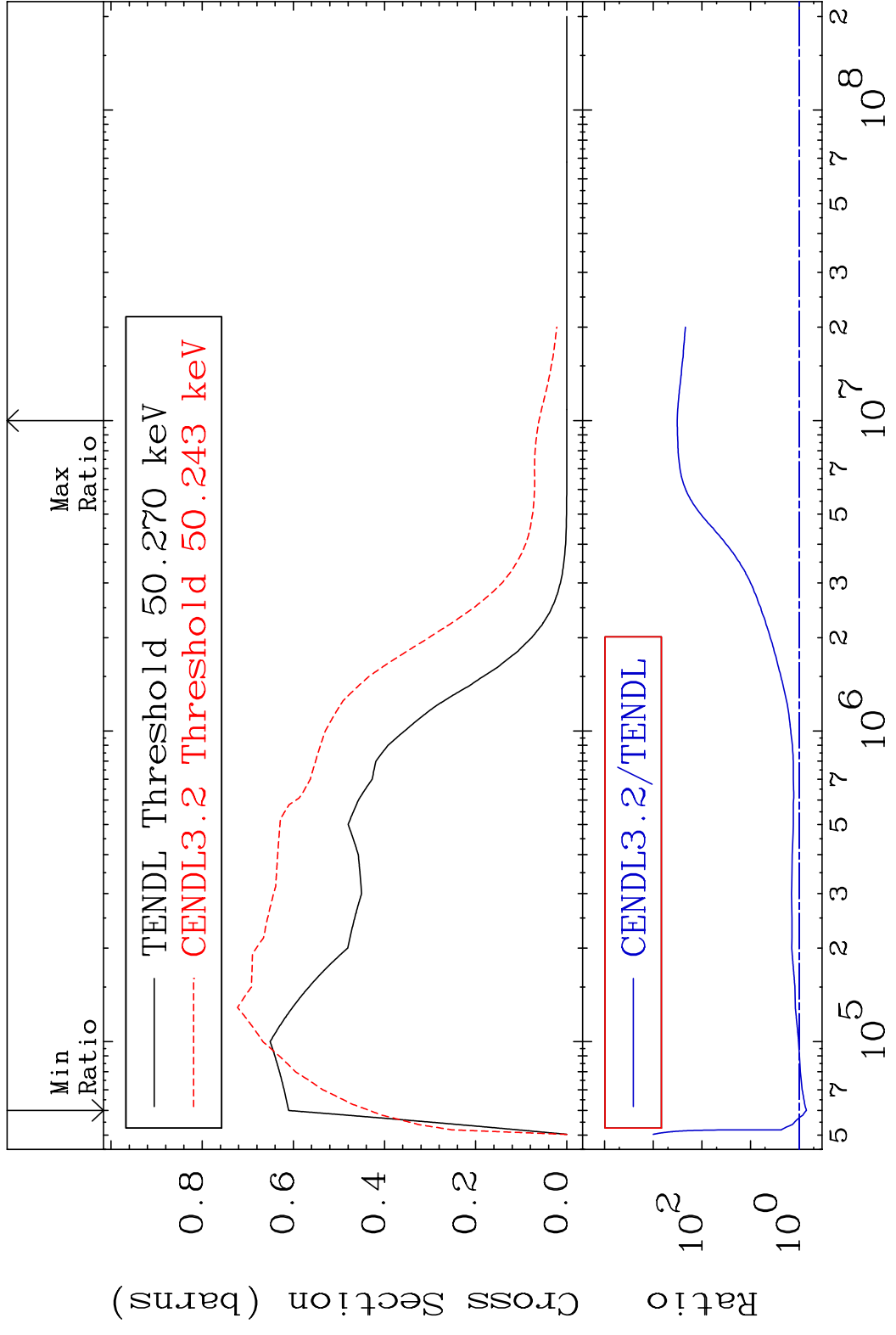
MAT 6040 (n, n') p 60-Nd-147  
 Cross Section -100.0 To -64.24%



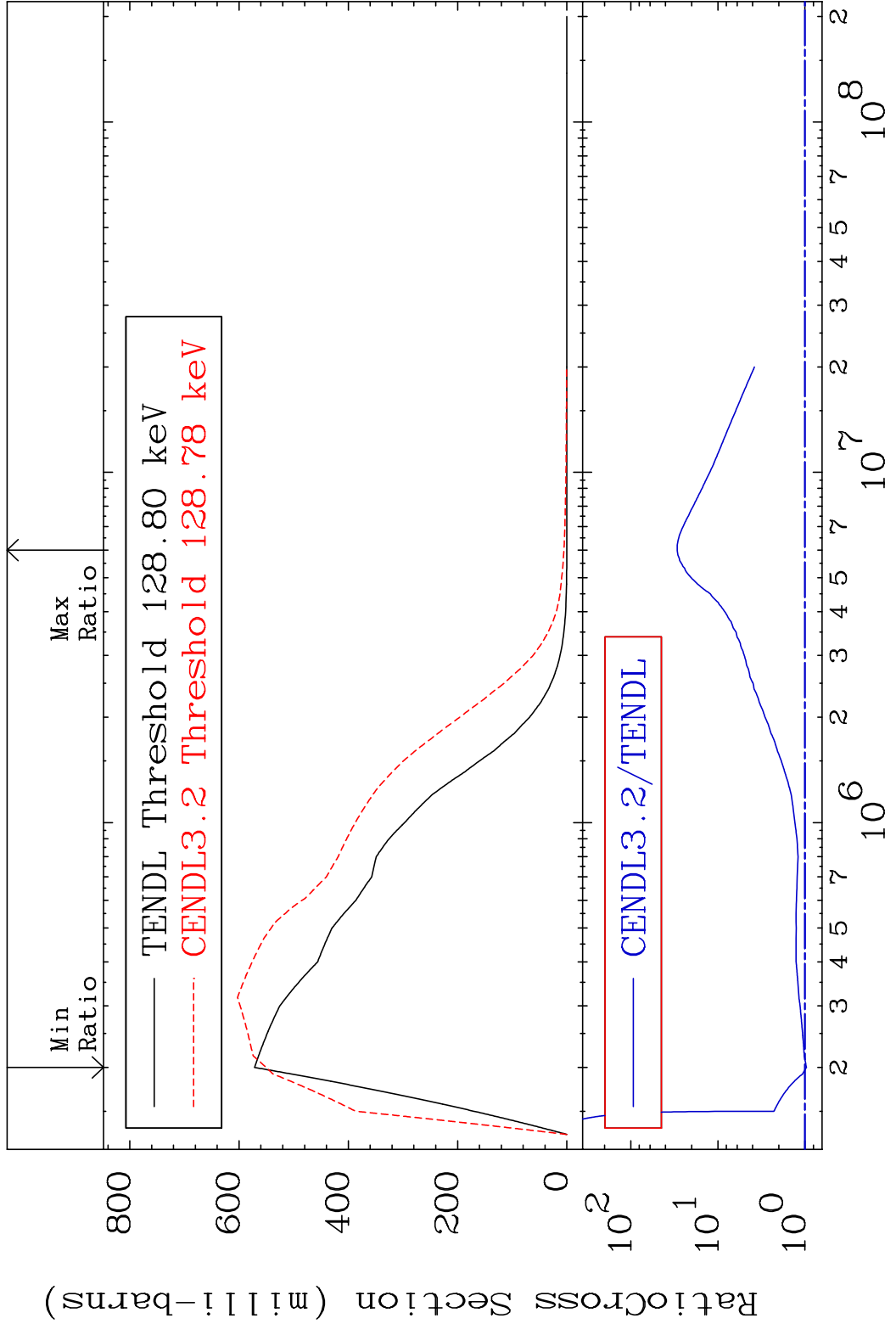
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



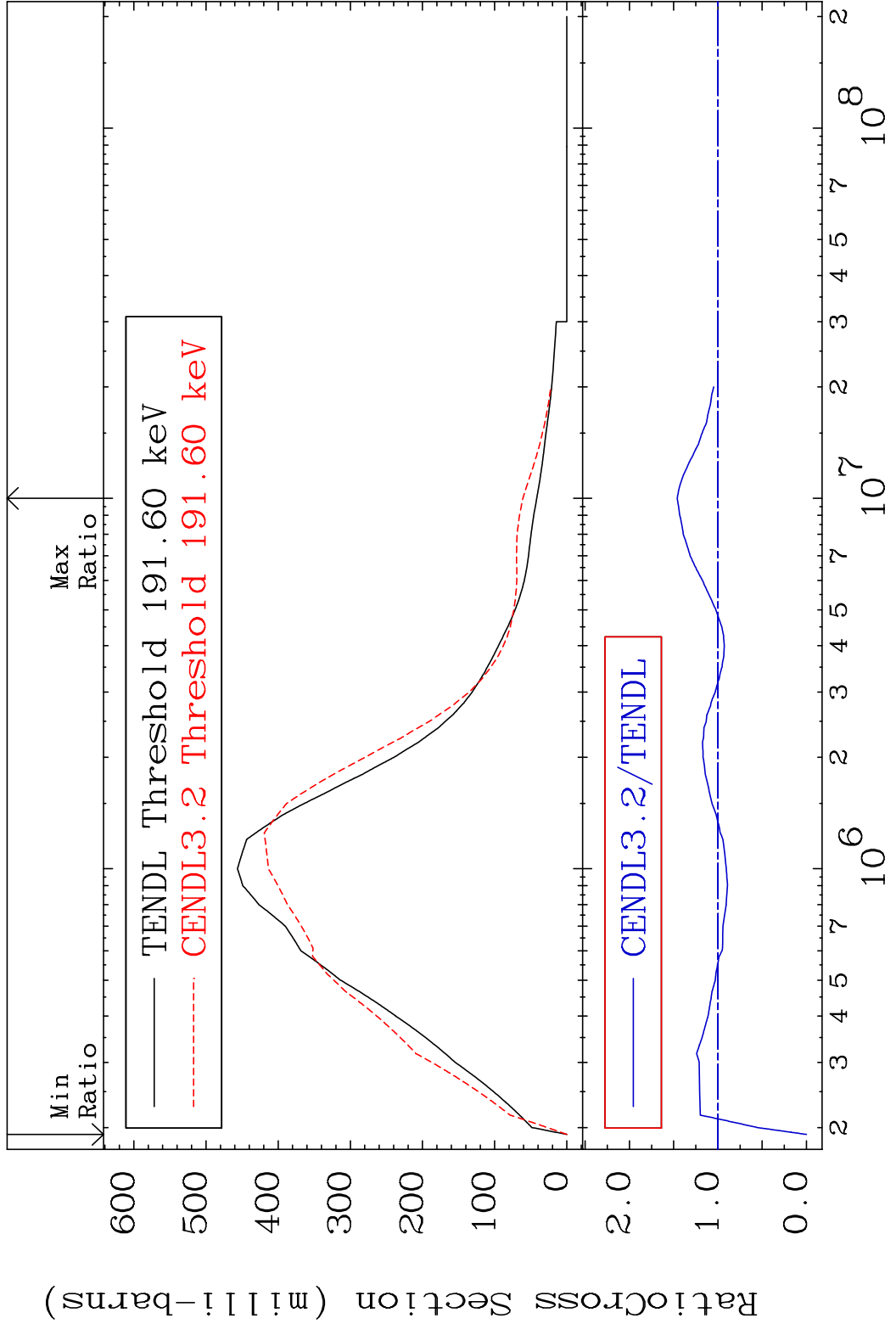
MAT 6040 MT= 51 (n,n') Level 60-Nd-147  
 Cross Section -29.06 To 9999. %



MAT 6040 MT= 52 (n, n') Level 60-Nd-147  
 Cross Section -3.723 To 2835. %

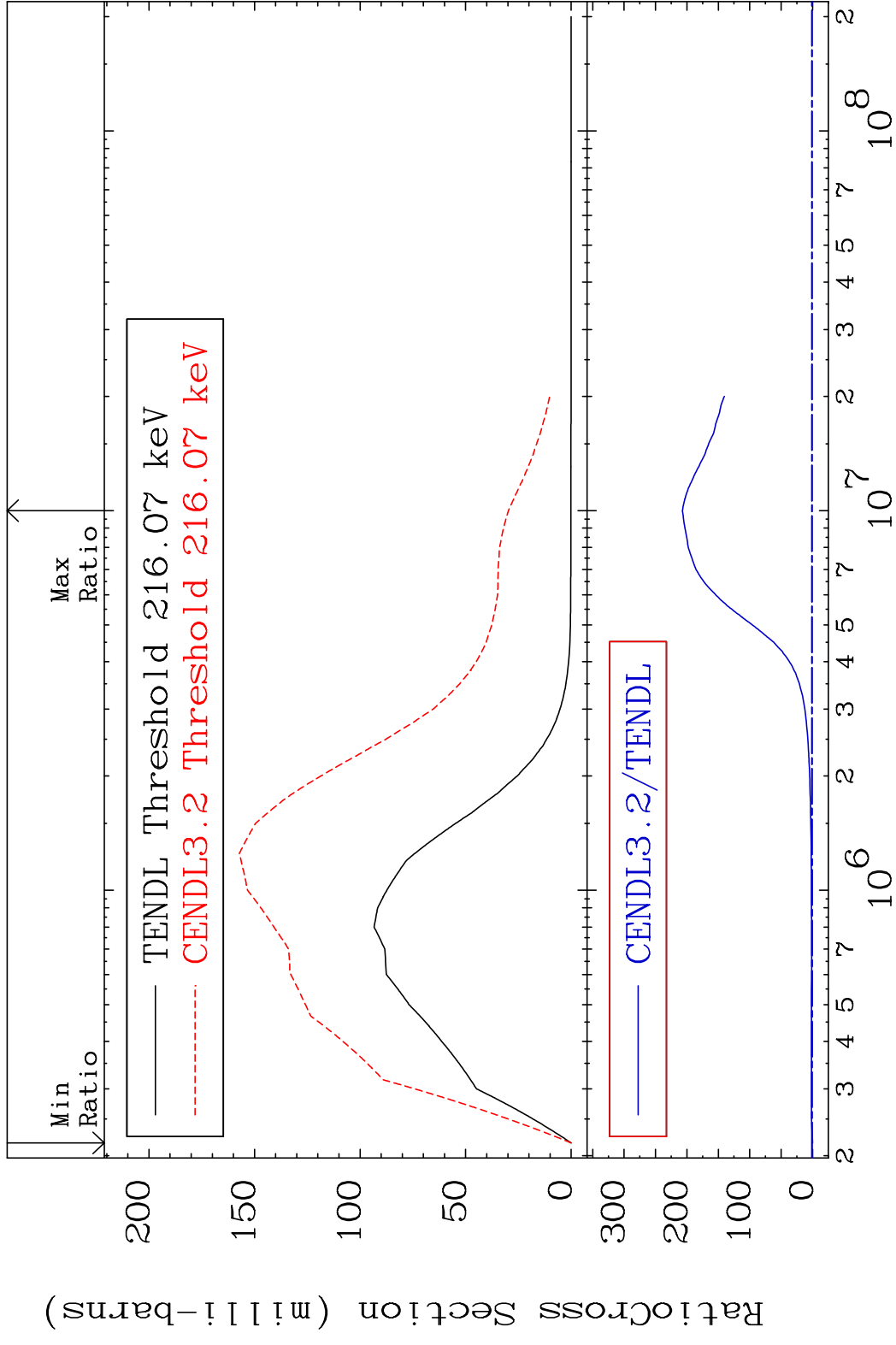


MAT 6040 MT= 53 (n, n') Level 60-Nd-147  
 Cross Section -100.0 To 46.04 %

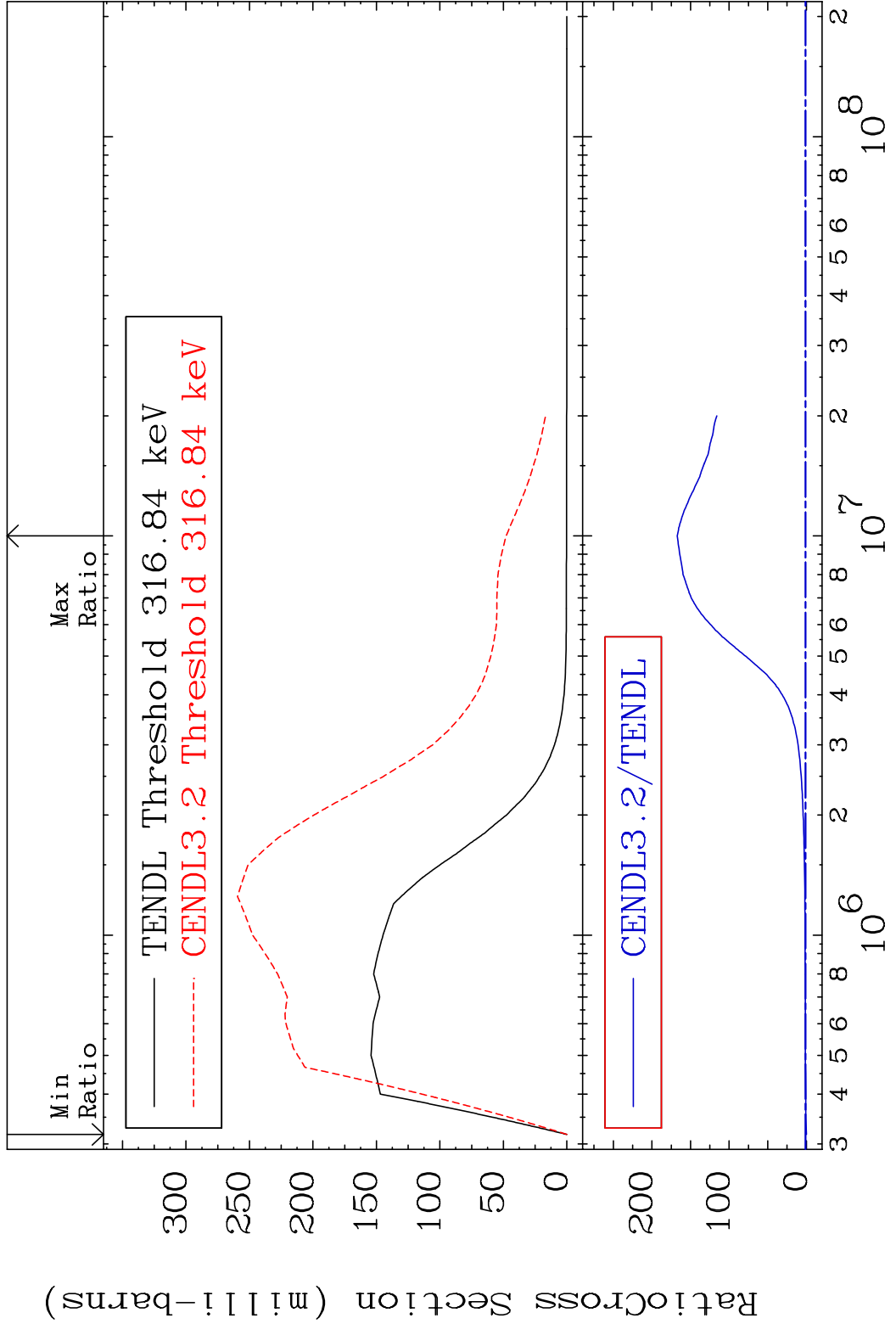


10 Incident Energy (eV) 60-Nd-147

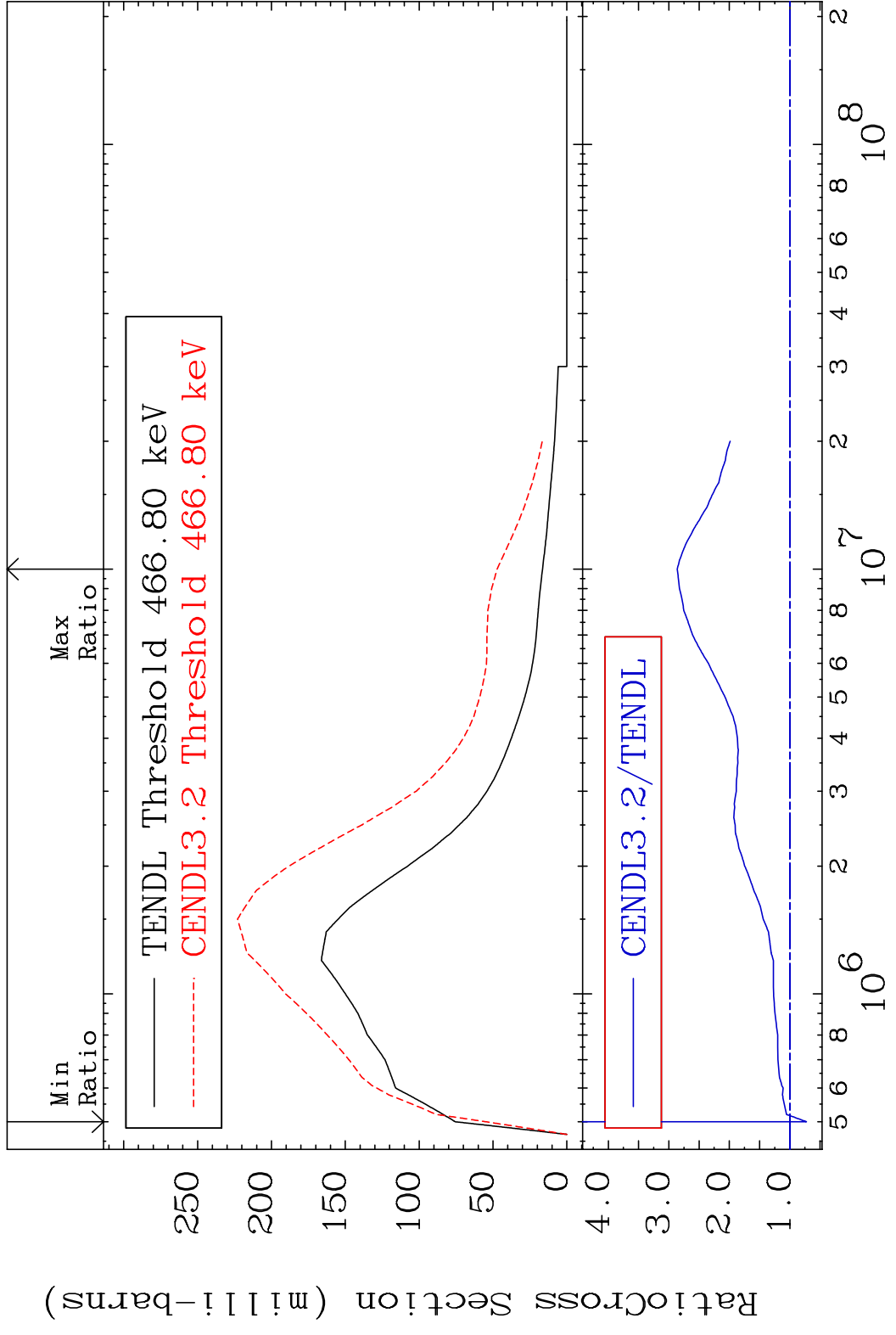
MAT 6040 MT= 54 (n, n') Level 60-Nd-147  
 Cross Section -100.0 To 9999. %



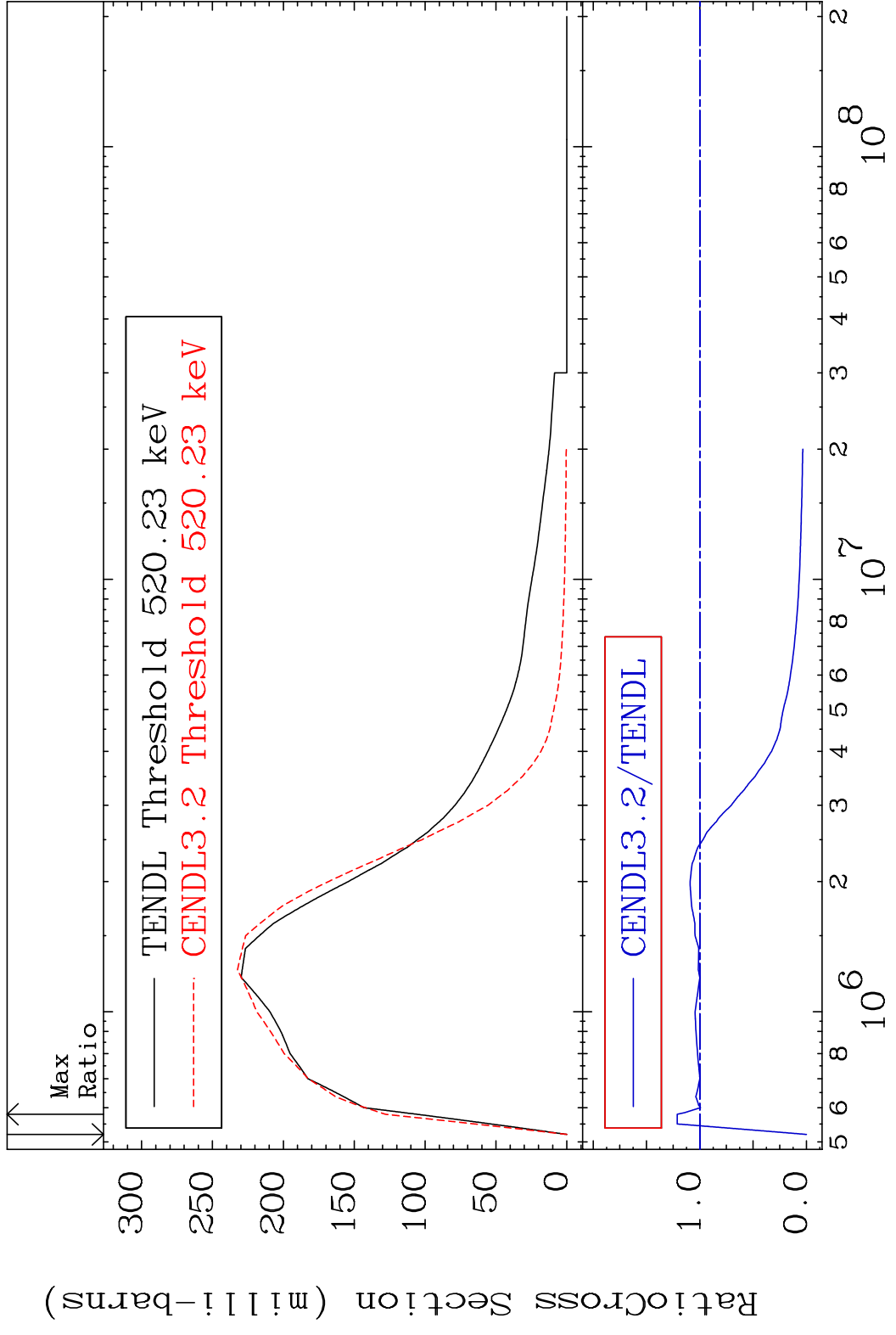
MAT 6040 MT= 55 (n, n') Level 60-Nd-147  
 Cross Section -100.0 To 9999. %



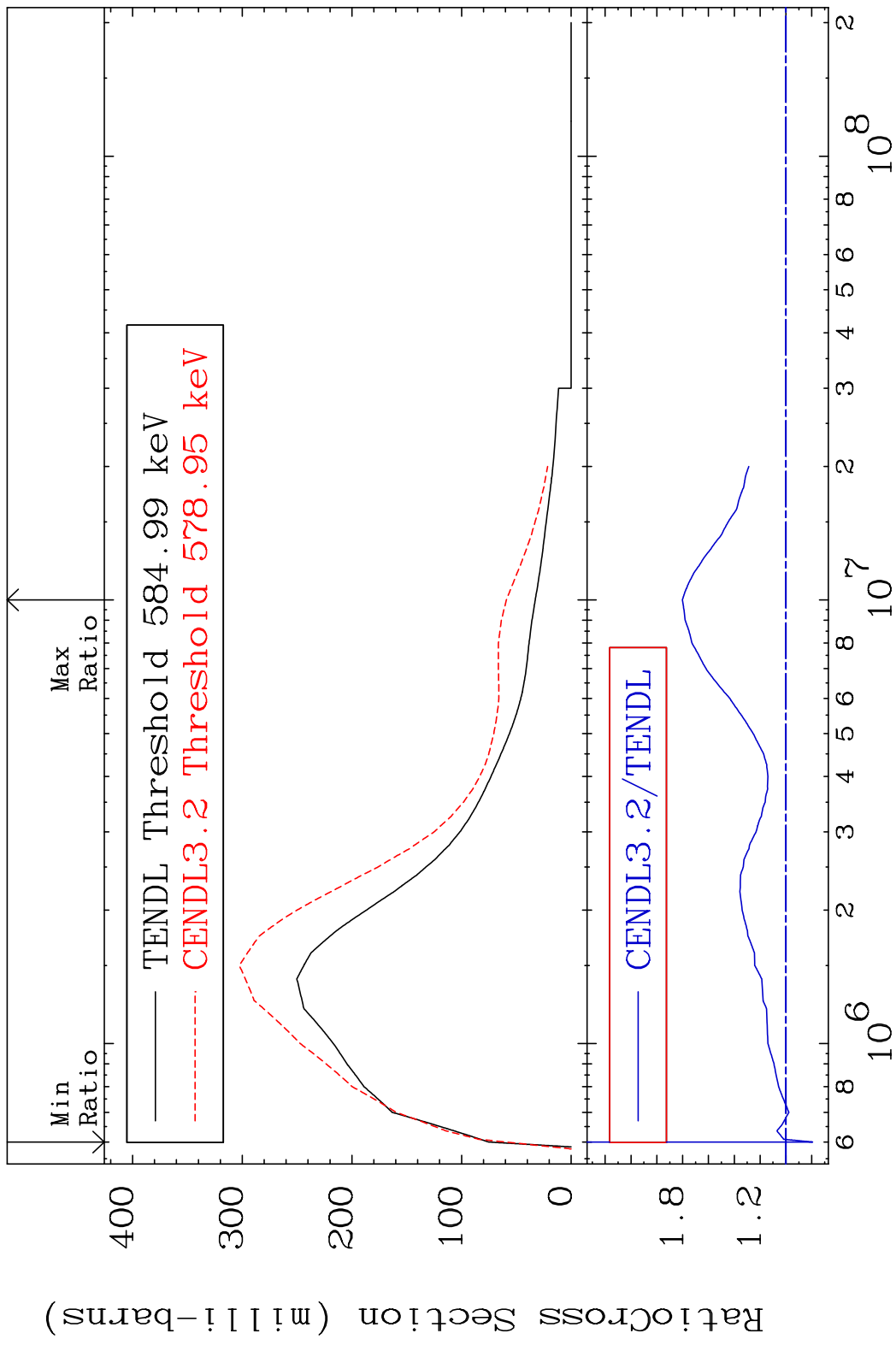
MAT 6040 MT= 56 (n, n') Level 60-Nd-147  
 Cross Section -27.39 To 186.2 %



MAT 6040 MT= 57 (n,n') Level 60-Nd-147  
 Cross Section -100.0 To 21.20 %

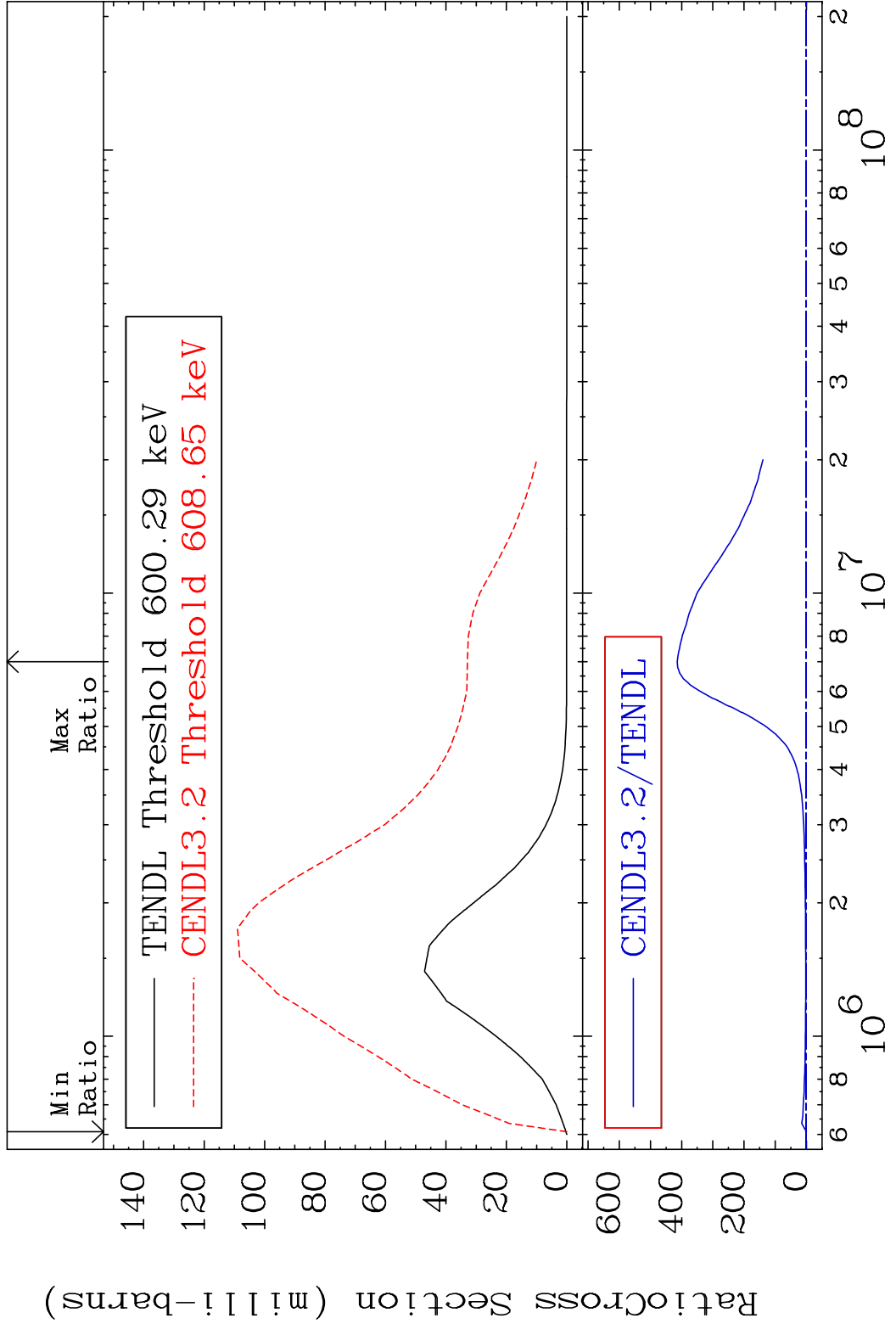


MAT 6040 MT= 58 (n, n') Level 60-Nd-147  
 Cross Section -20.61 To 80.23 %

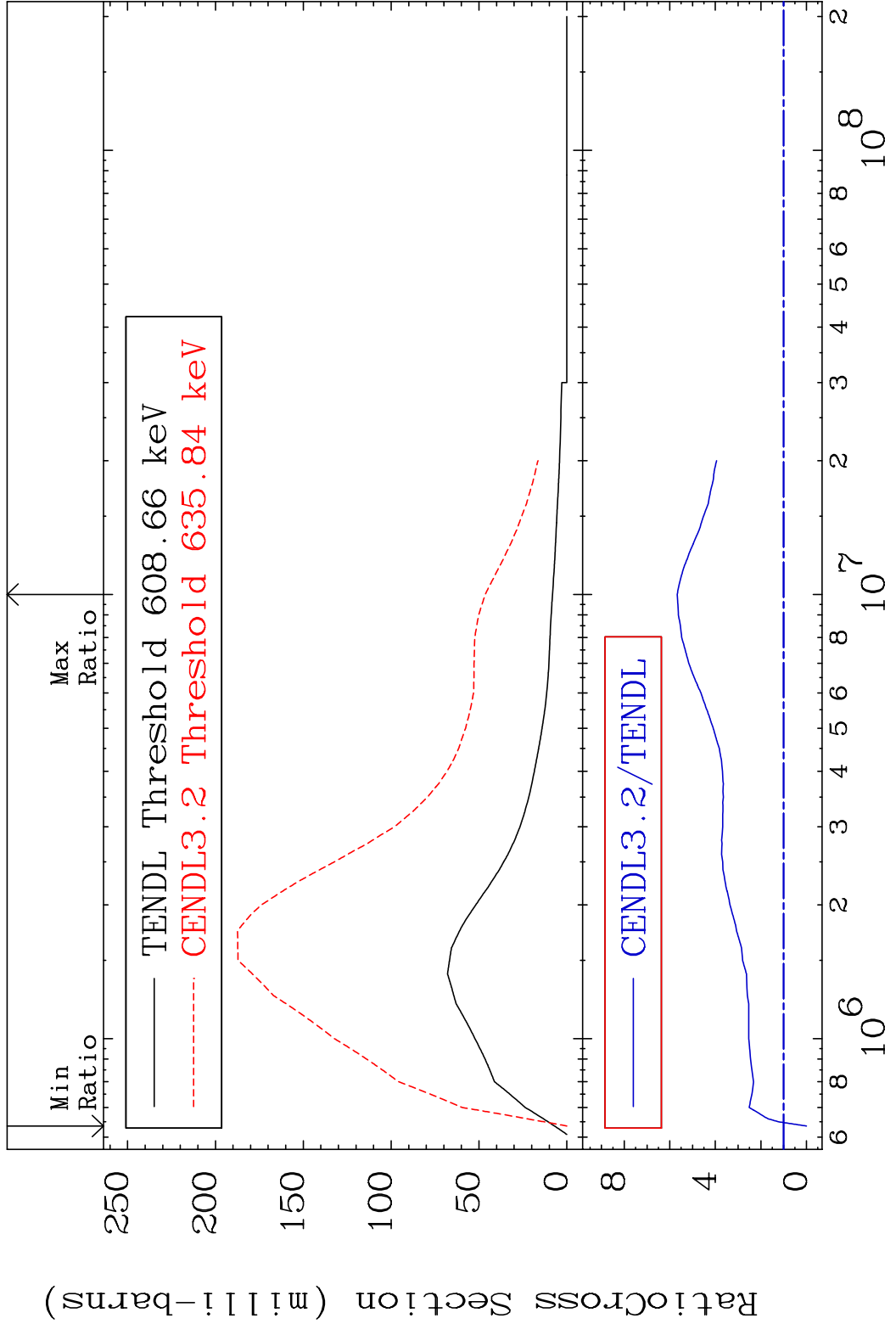




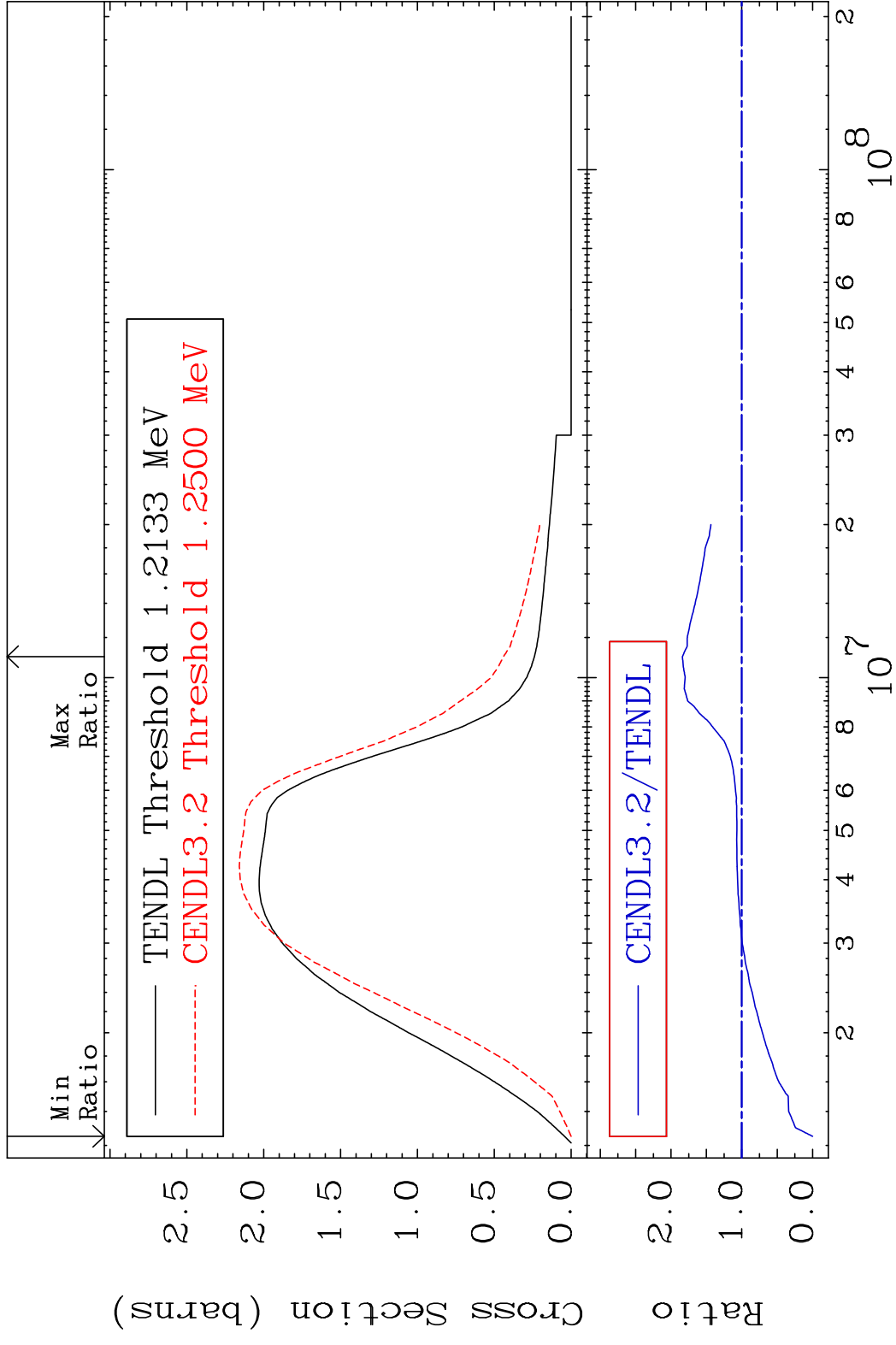
MAT 6040 MT= 59 (n, n') Level 60-Nd-147  
 Cross Section -100.0 To 9999. %



MAT 6040 MT= 60 (n, n') Level 60-Nd-147  
 Cross Section -100.0 To 467.5 %



MAT 6040 (n, n') Continuum 60-Nd-147  
 Cross Section -100.0 To 83.97 %

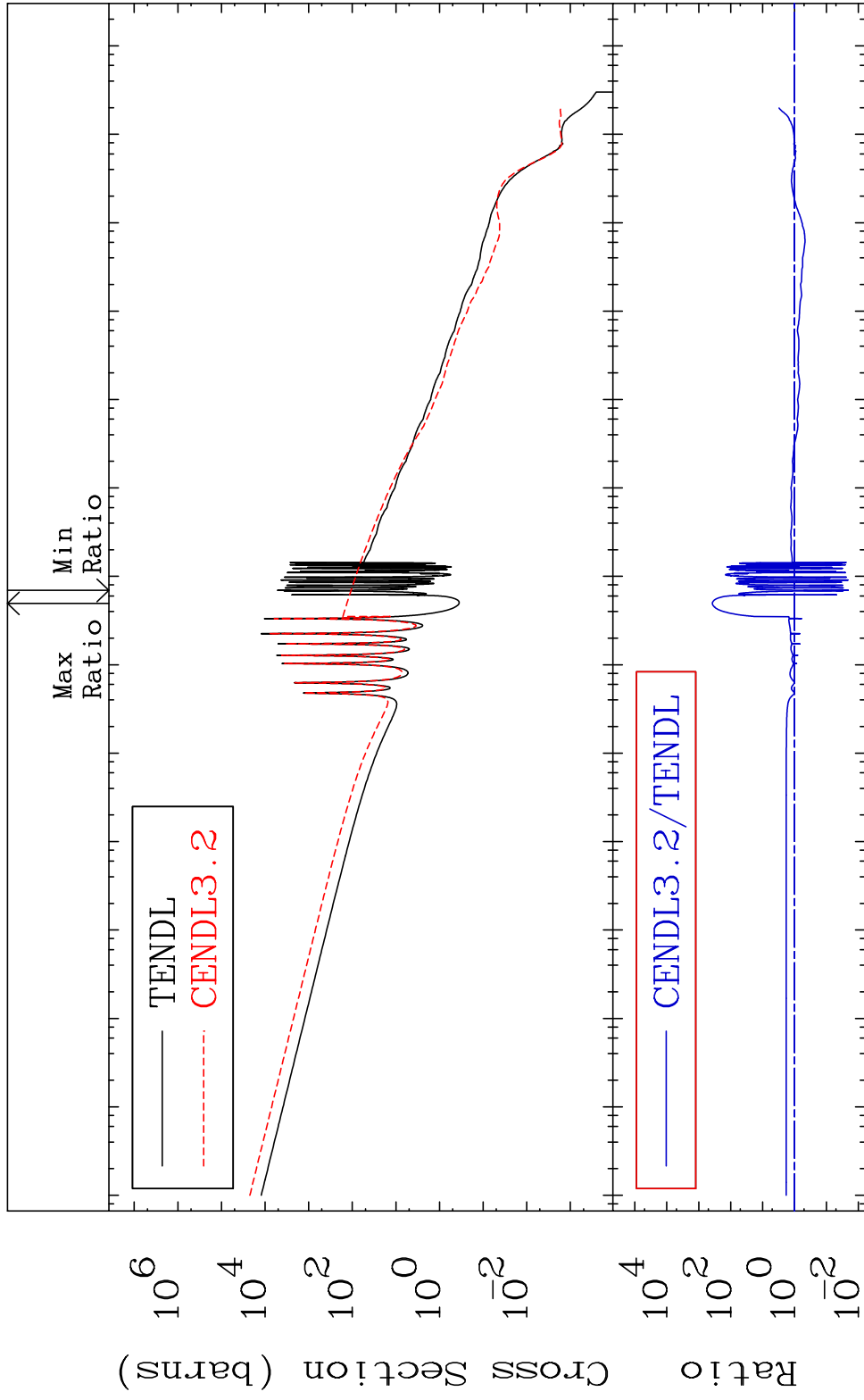


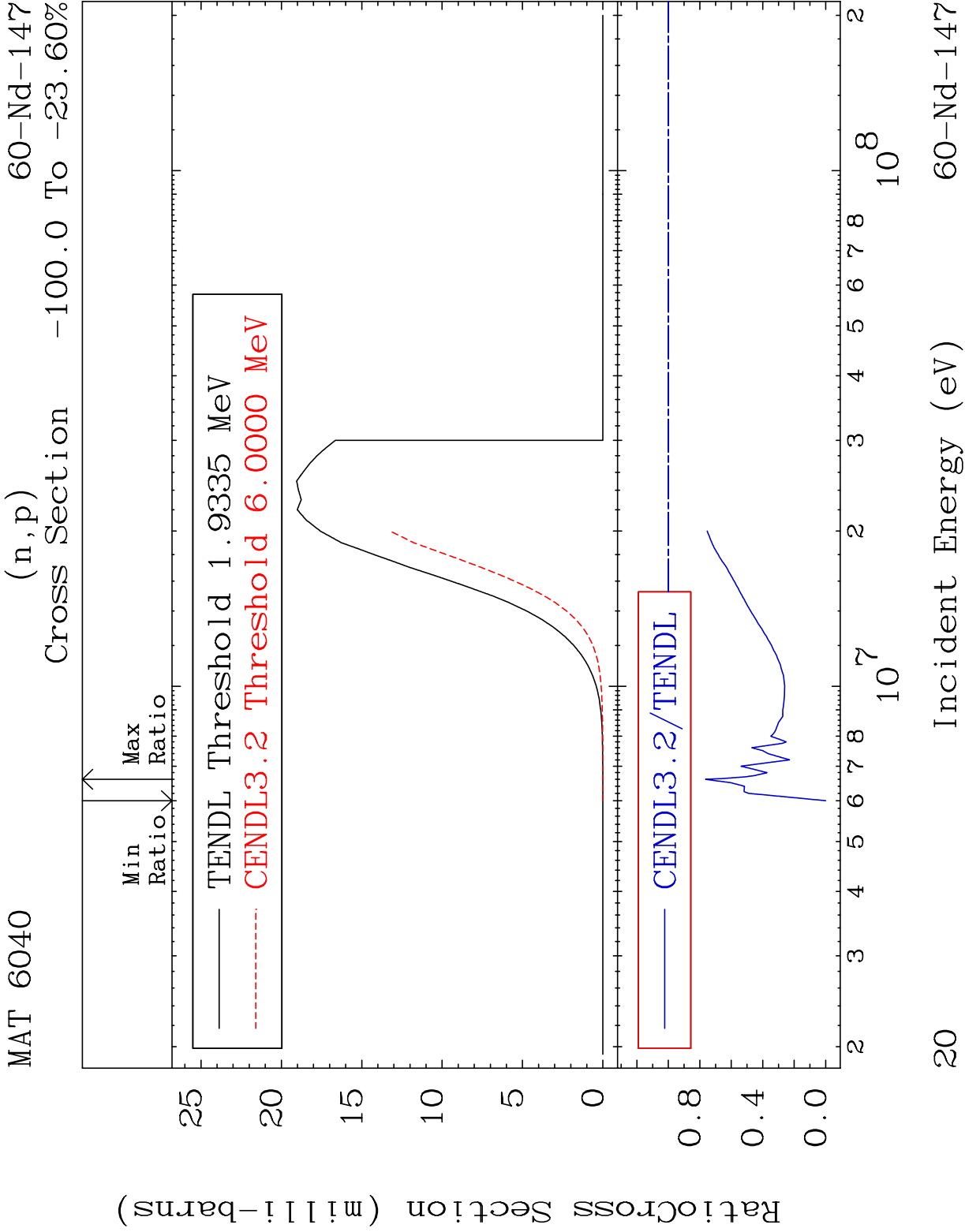
MAT 6040

(n,  $\gamma$ )

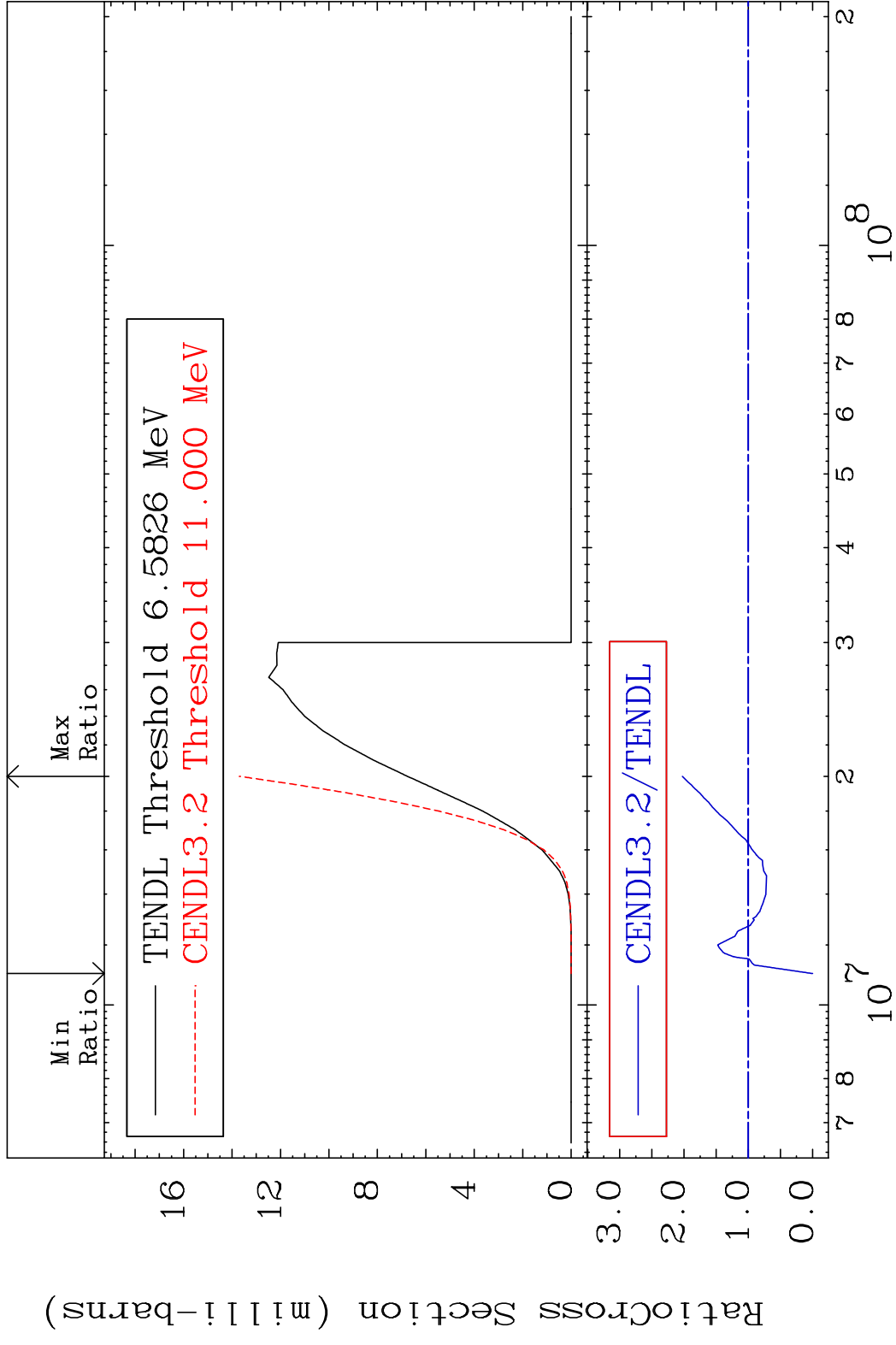
60-Nd-147

Cross Section -97.94 To 9999. %

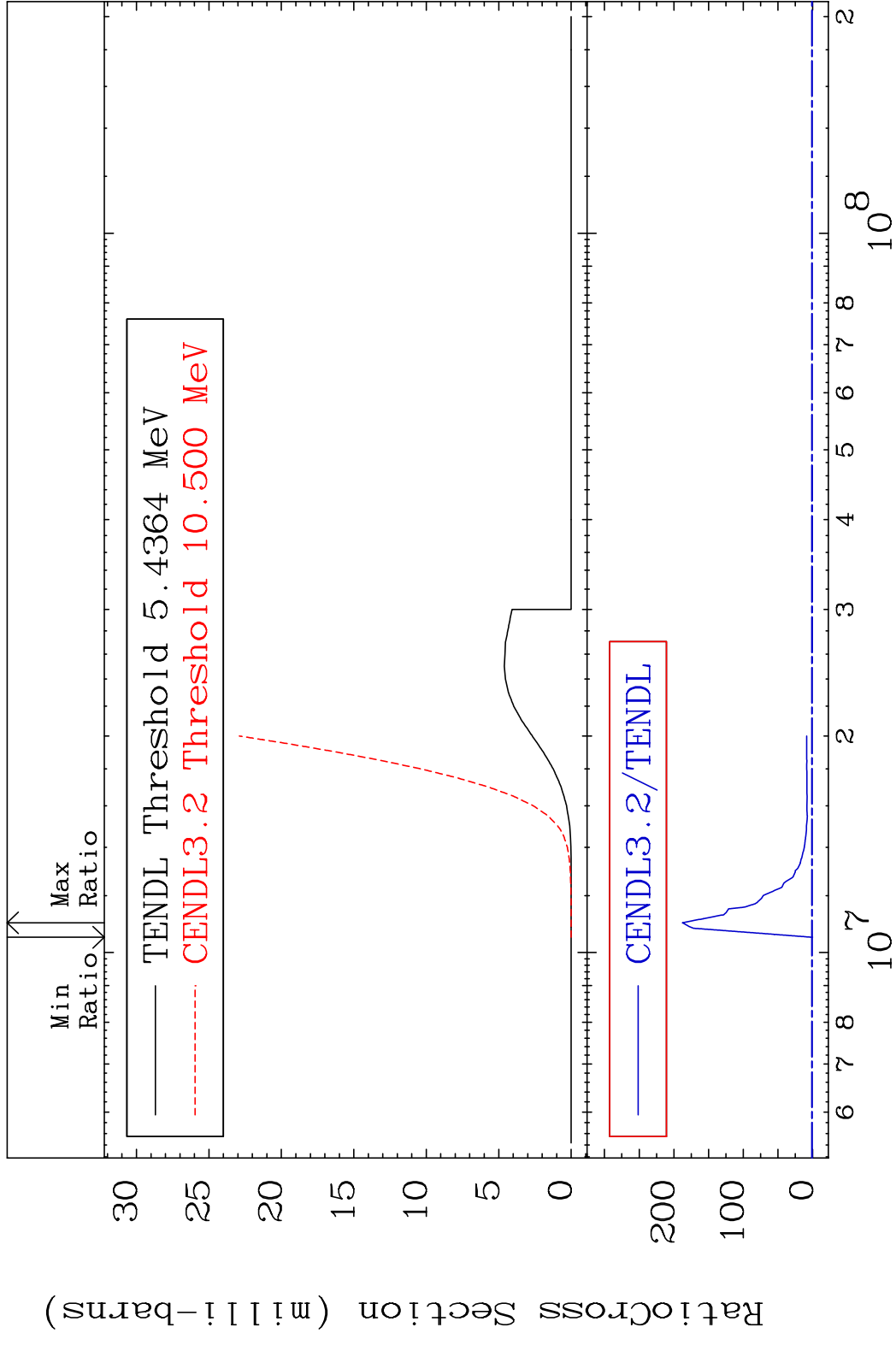




MAT 6040 (n,d) 60-Nd-147  
 Cross Section -100.0 To 102.6 %



MAT 6040 (n, t) 60-Nd-147  
 Cross Section -100.0 To 9999. %



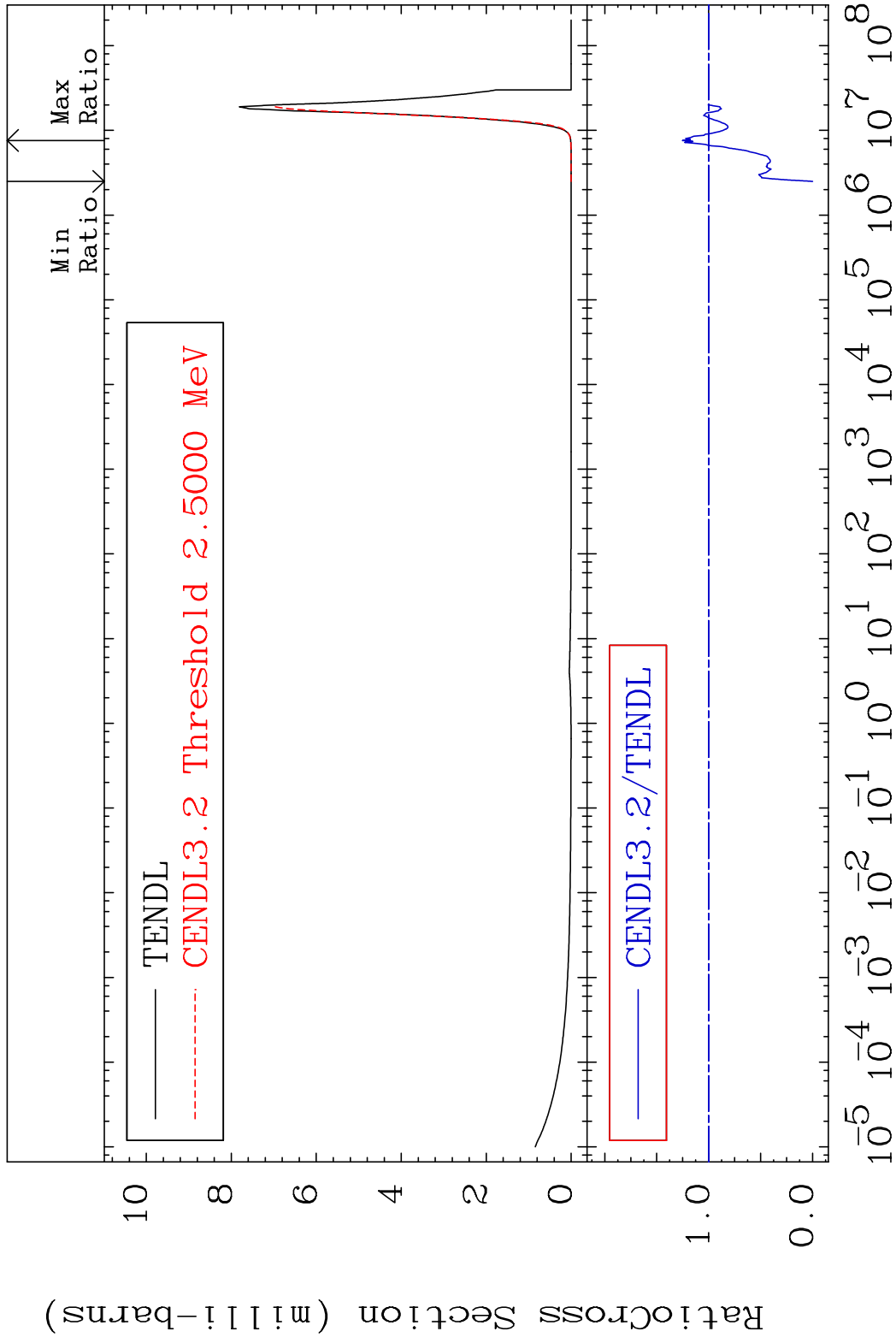
22 Incident Energy (eV) 60-Nd-147

MAT 6040

(n,  $\alpha$ )

60-Nd-147

Cross Section -100.0 To 25.33 %



23

Incident Energy (eV)

60-Nd-147

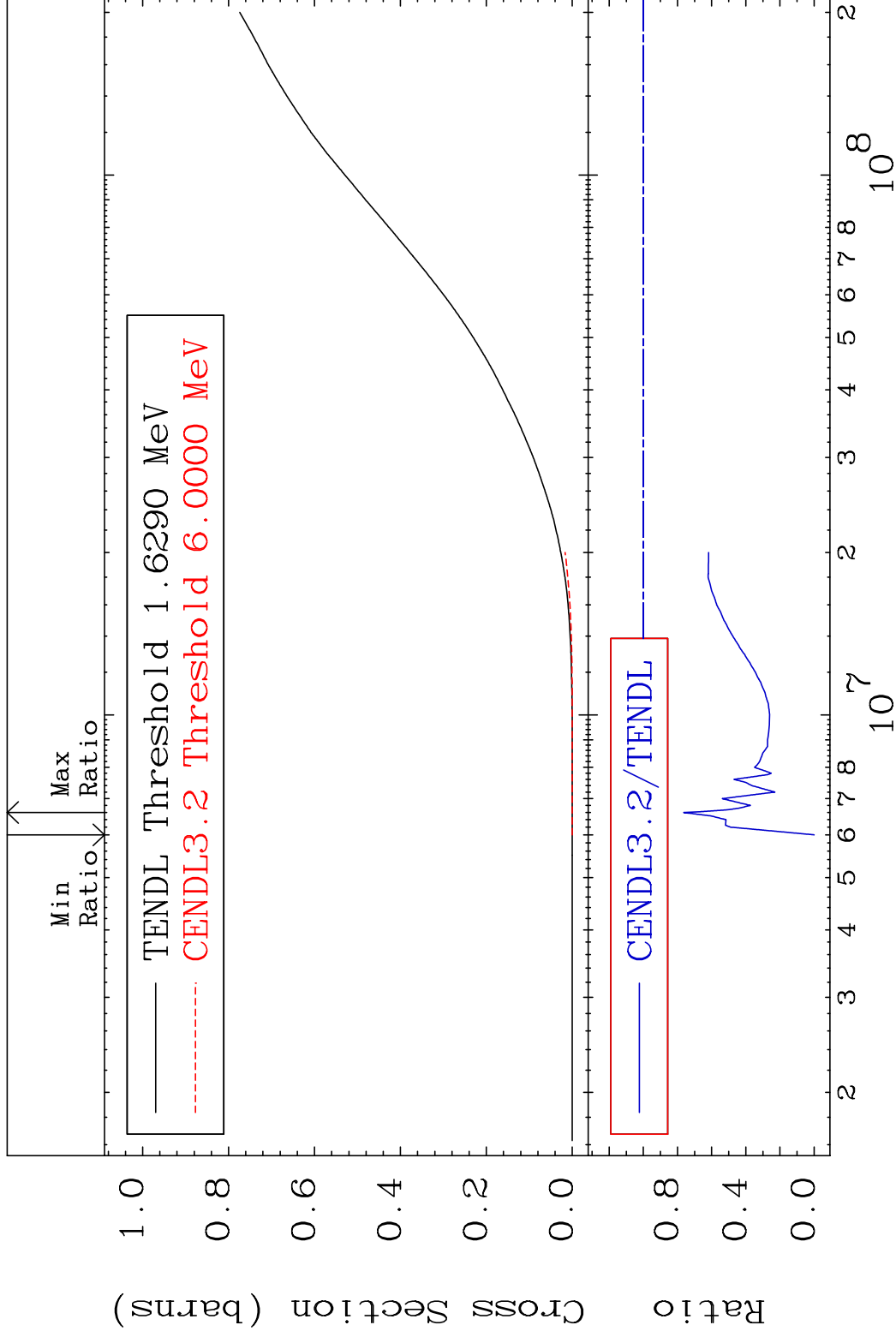


MAT 6040

Hydrogen Production

60-Nd-147

Cross Section -100.0 To -23.60%

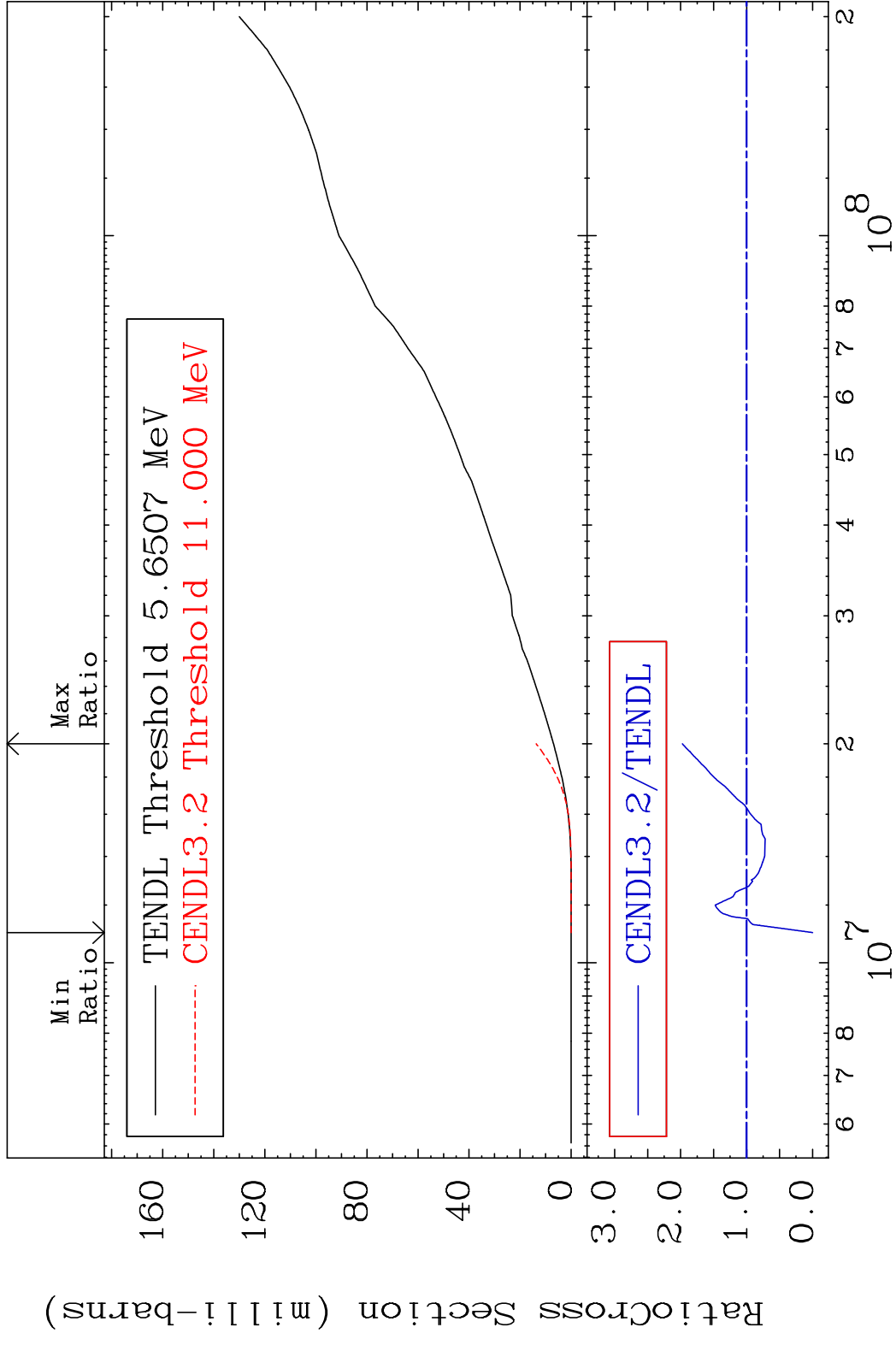


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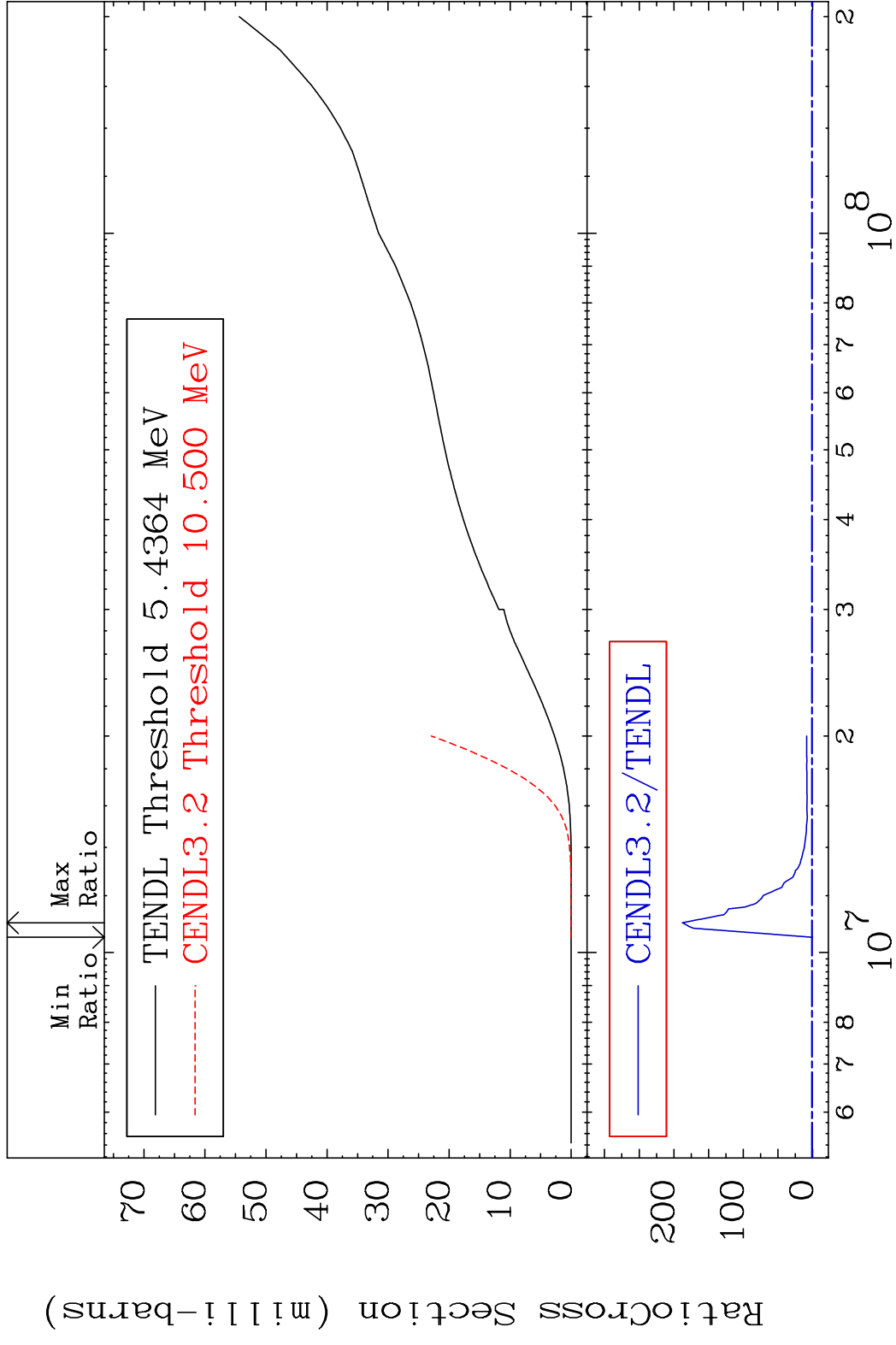
Incident Energy (eV)

60-Nd-147

MAT 6040 Deuterium Production 60-Nd-147  
 Cross Section -100.0 To 97.37 %



MAT 6040 Tritium Production 60-Nd-147  
 Cross Section -100.0 To 9999. %

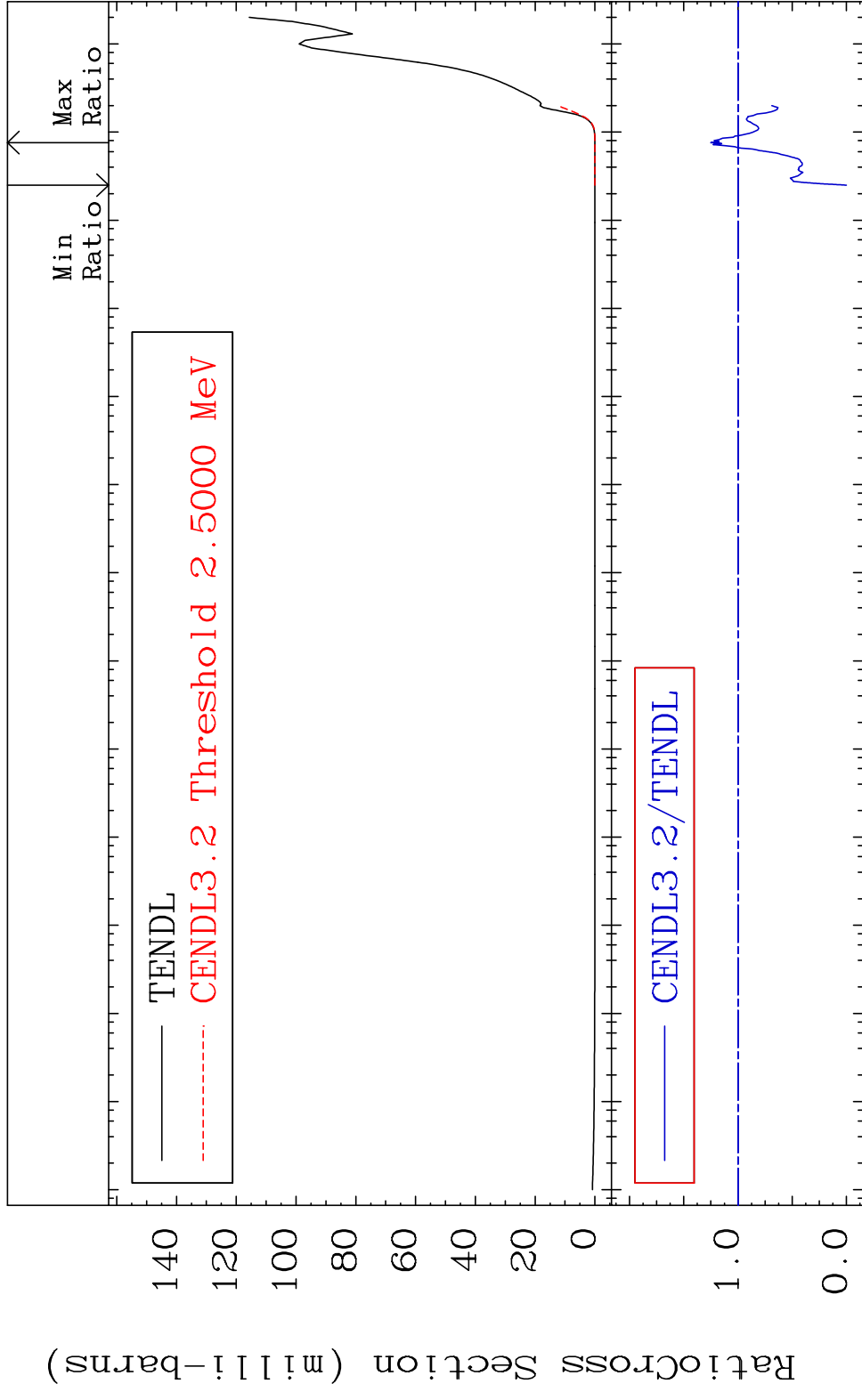


MAT 6040

He-4 Production

60-Nd-147

Cross Section -100.0 To 25.14 %

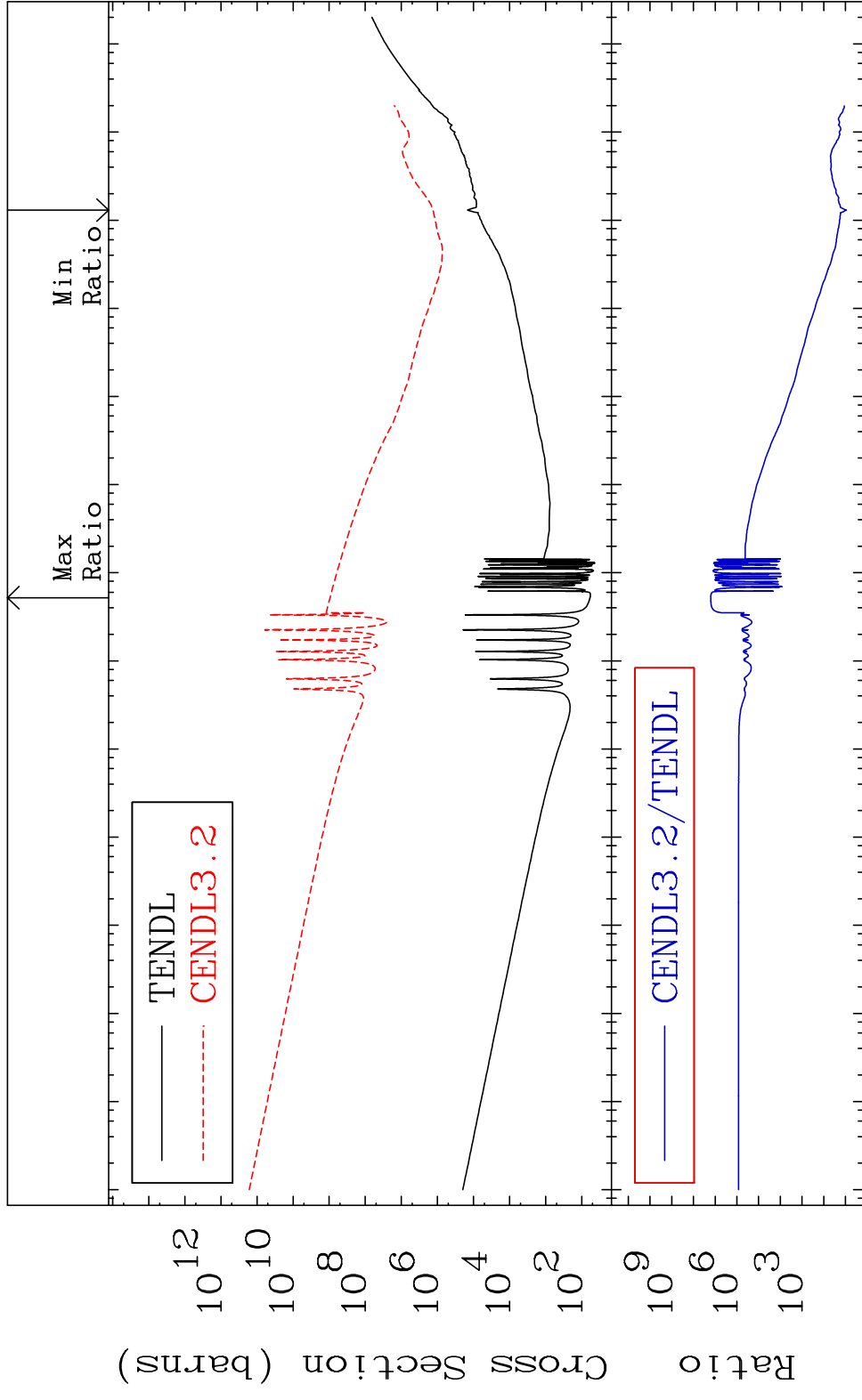


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Incident Energy (eV)

60-Nd-147

MAT 6040 Kerma total (eV-barns) 60-Nd-147  
 Cross Section 810.1 To 9999. %



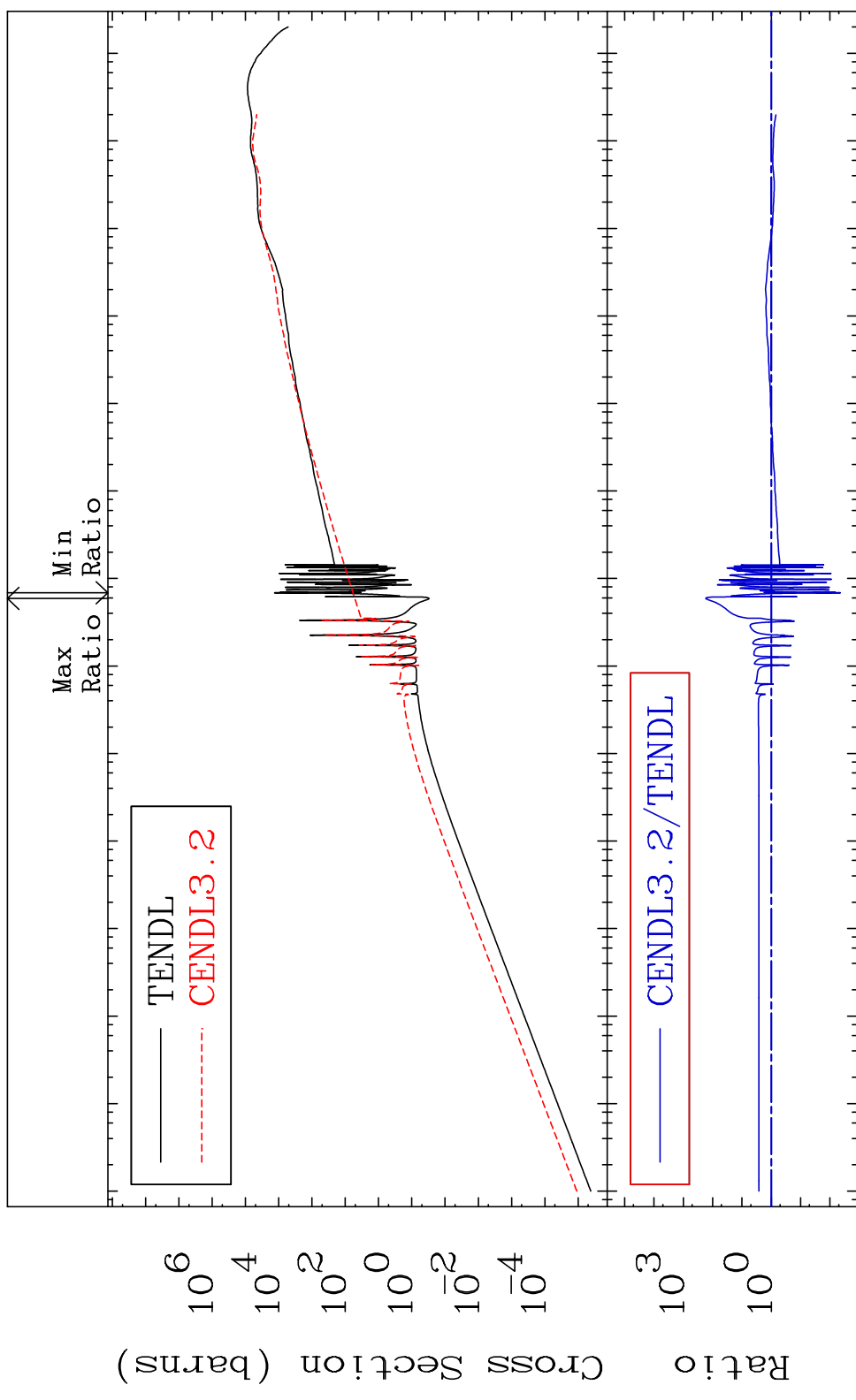
Ratio  
 10<sup>9</sup>  
 10<sup>6</sup>  
 10<sup>3</sup>

Incident Energy (eV) 60-Nd-147

MAT 6040

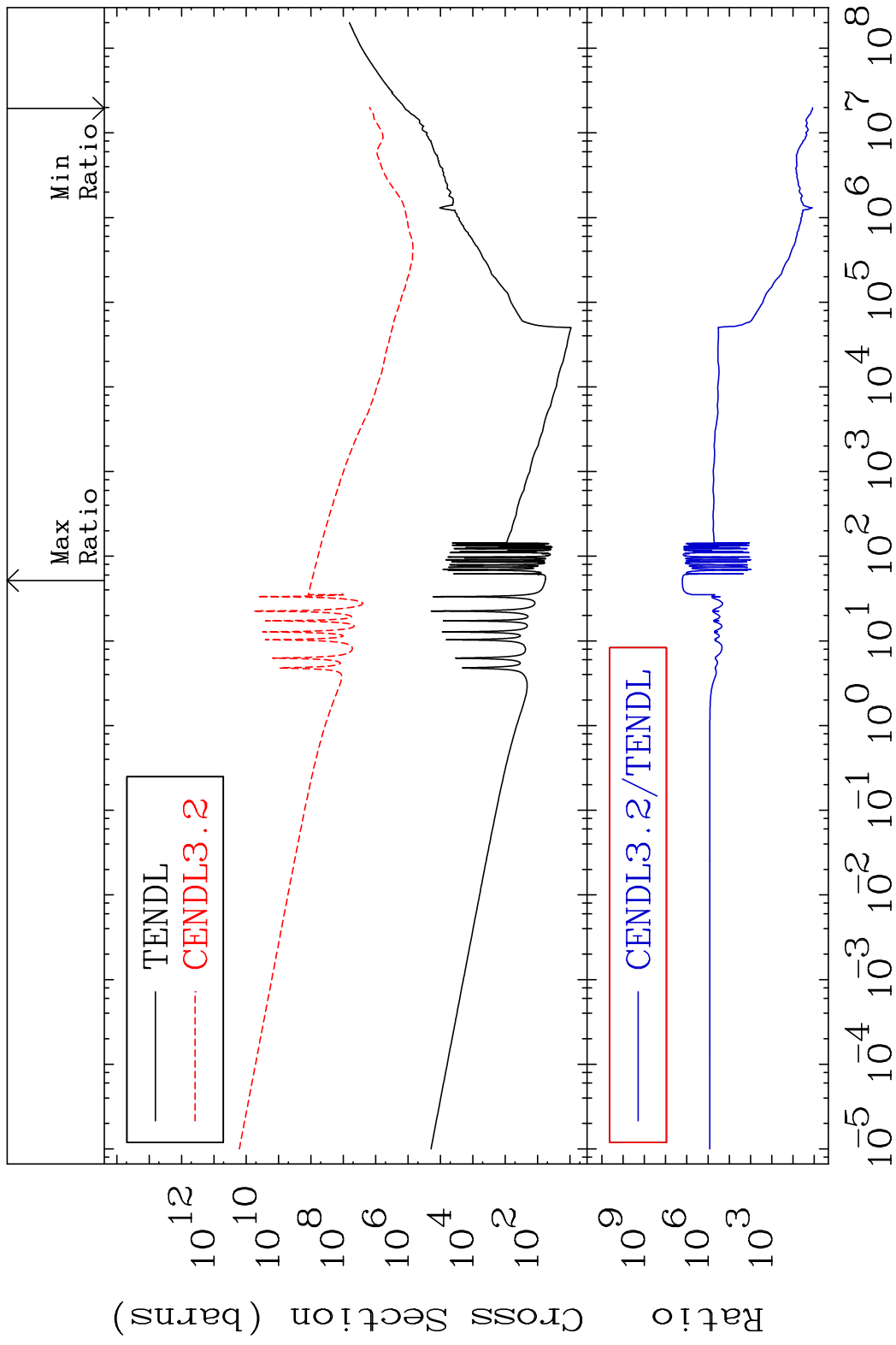
Kerma elastic Cross Section -99.56 To 9999. %

60-Nd-147

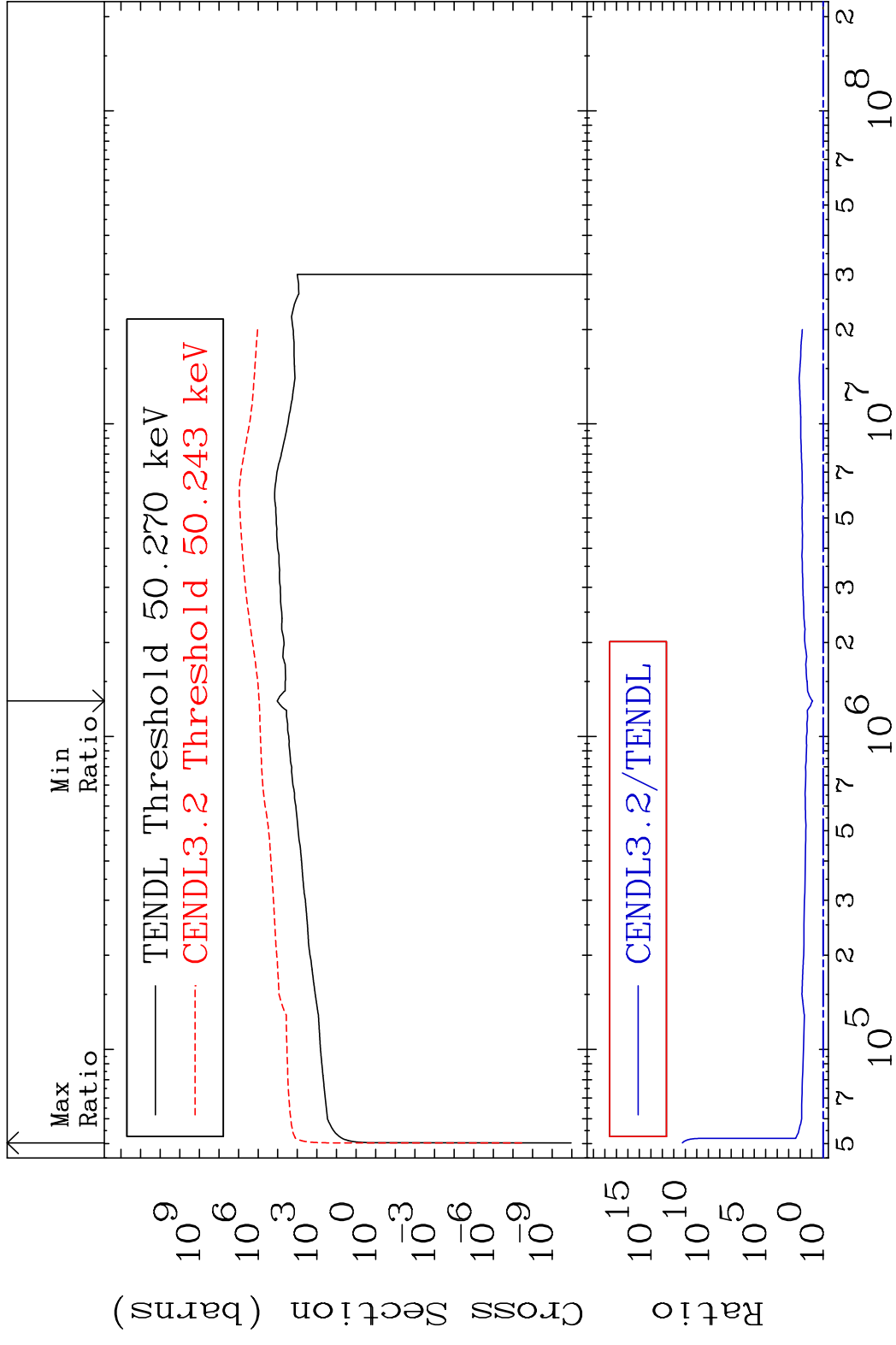


10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

MAT 6040 Kerma non-elastic (all but mt2) 60-Nd-147  
 Cross Section 1086. To 9999. %

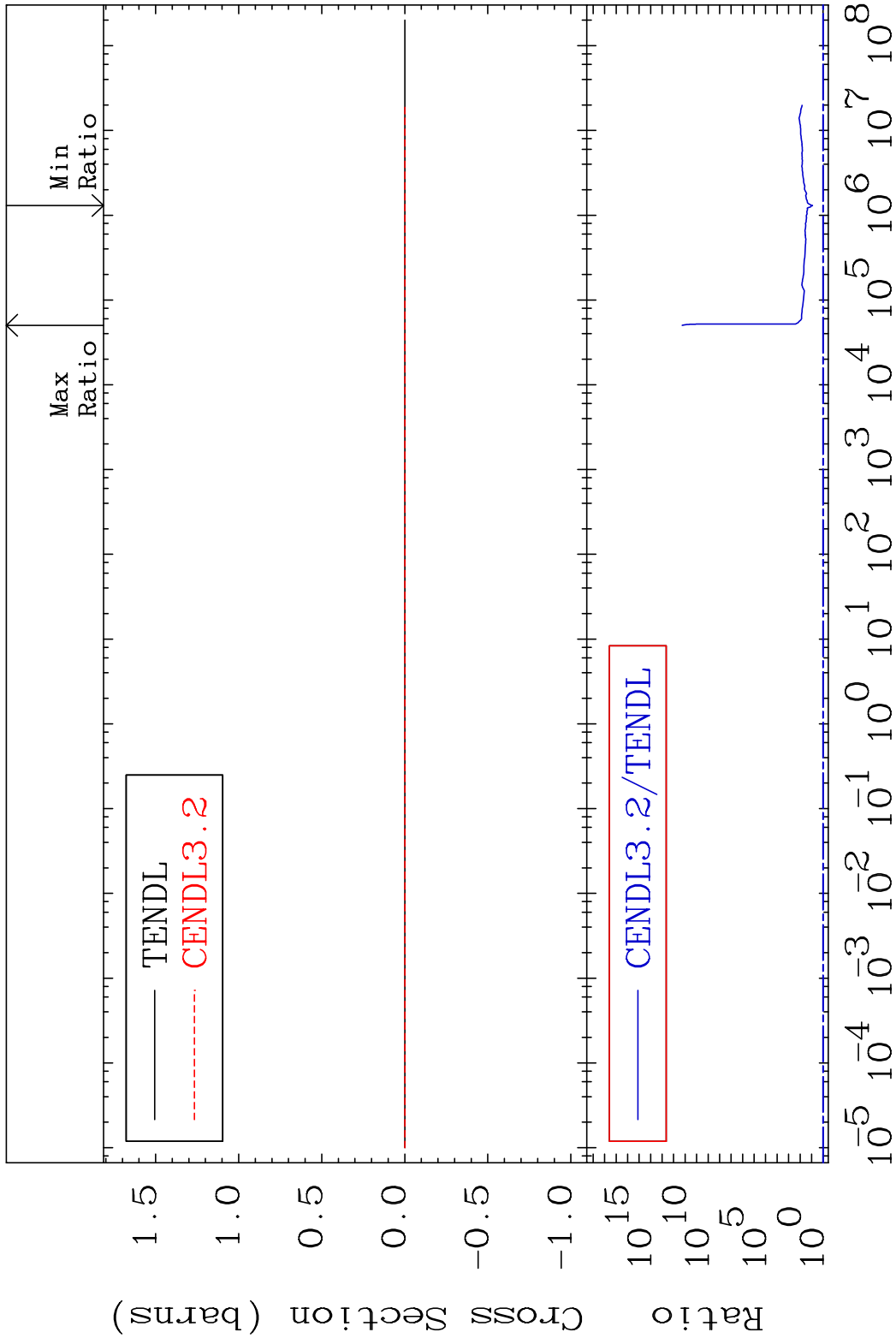


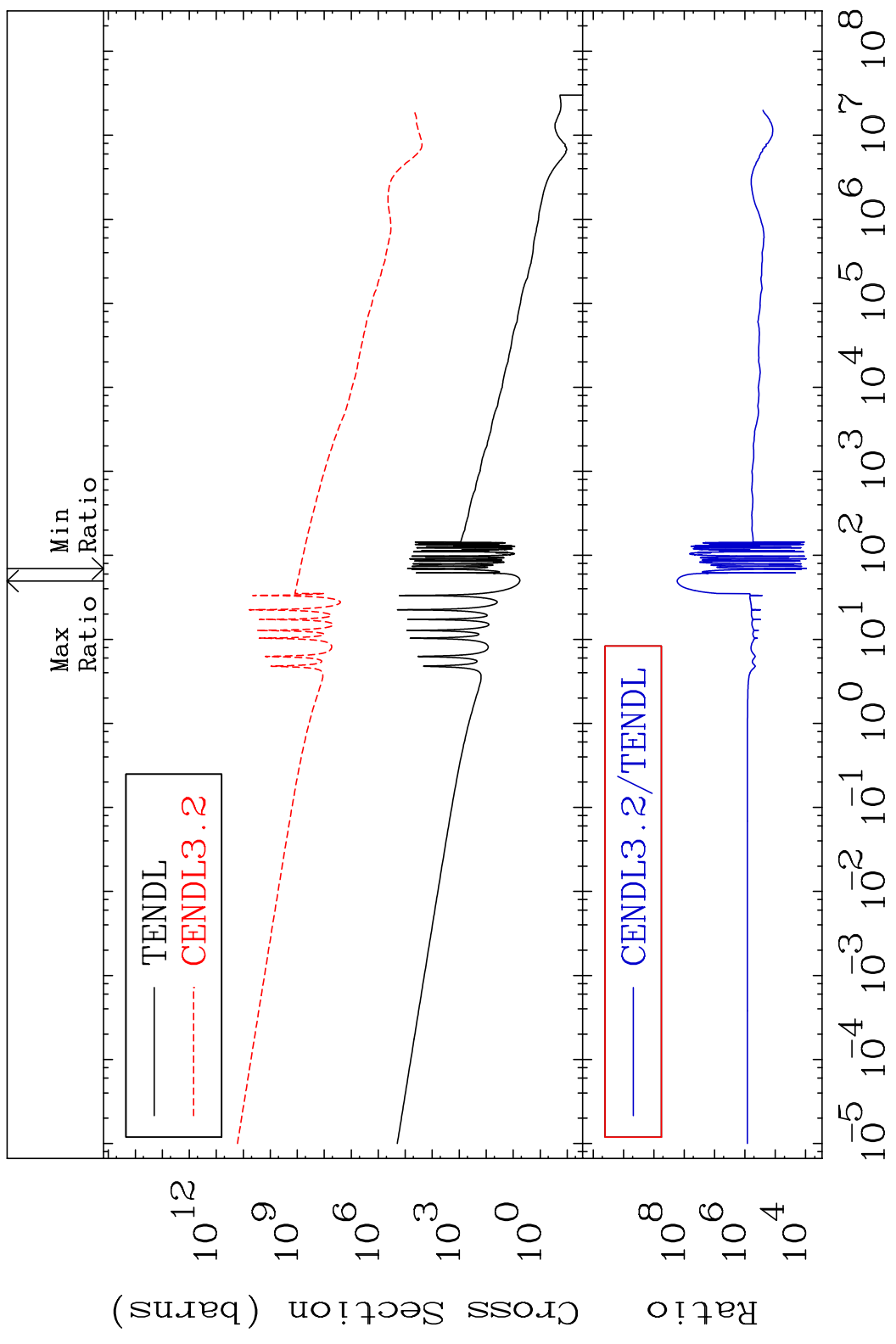
MAT 6040 Kerma inelastic (mt51-91) 60-Nd-147  
 Cross Section 740.8 To 9999. %



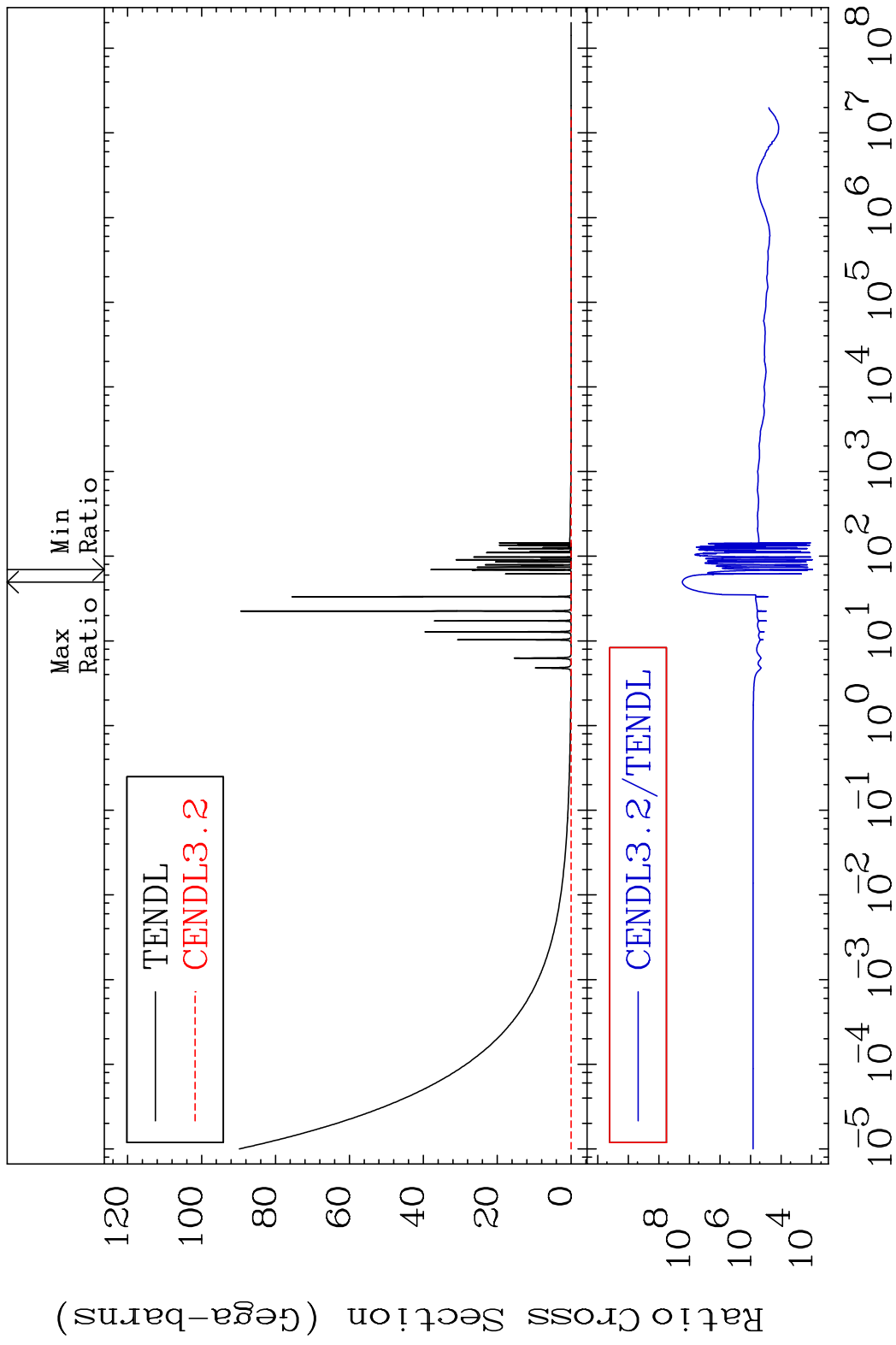


MAT 6040 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-147  
 Cross Section 740.8 To 9999. %



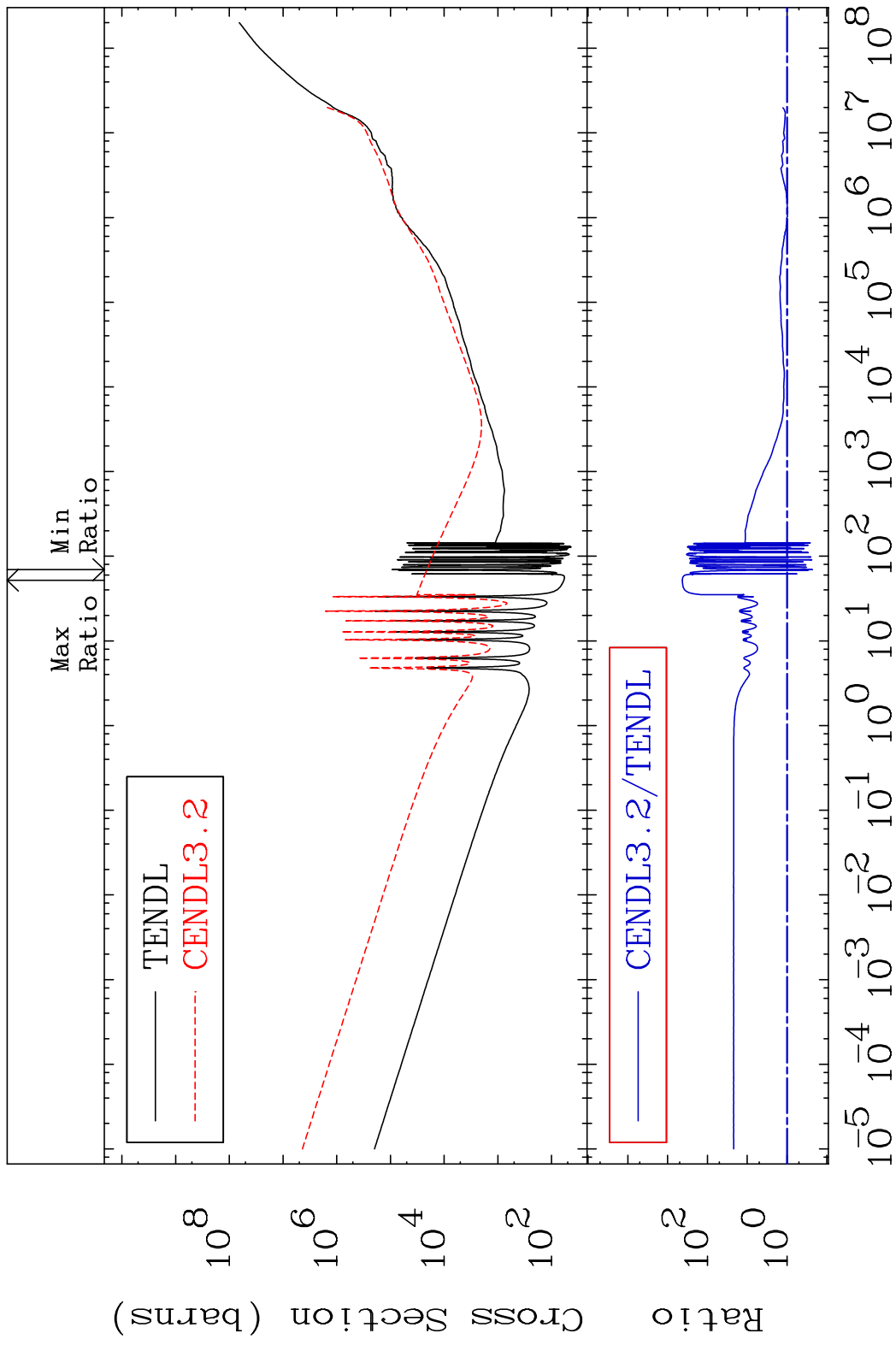


MAT 6040 Total photon (eV-barns) 60-Nd-147  
 Cross Section 9999. To 9999. %



34 Incident Energy (eV) 60-Nd-147

MAT 6040 Total kinematic kerma (high limit) 60-Nd-147  
 Cross Section -77.25 To 9999. %

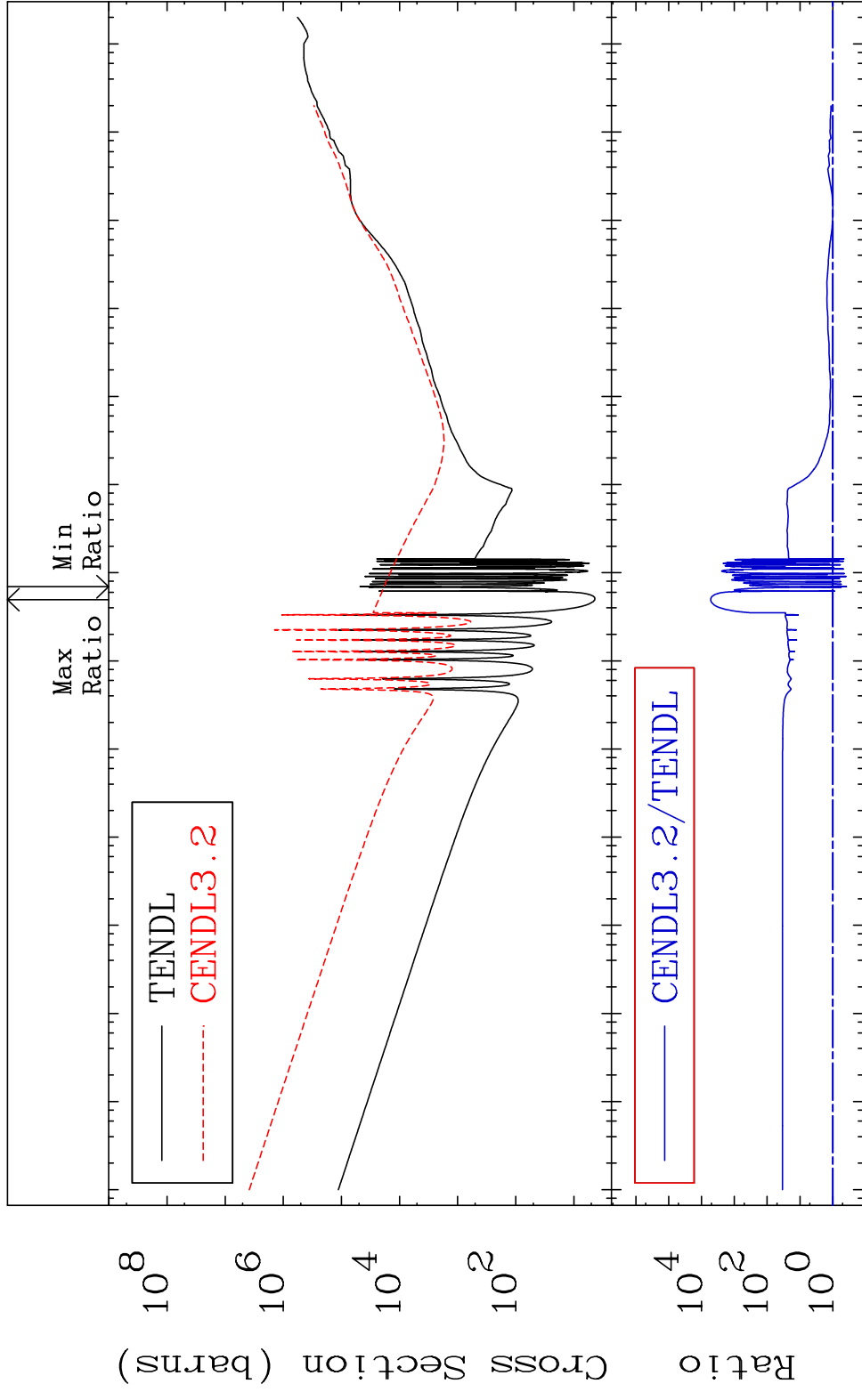


MAT 6040

Dpa total (eV-barns)

60-Nd-147

Cross Section -61.36 To 9999. %

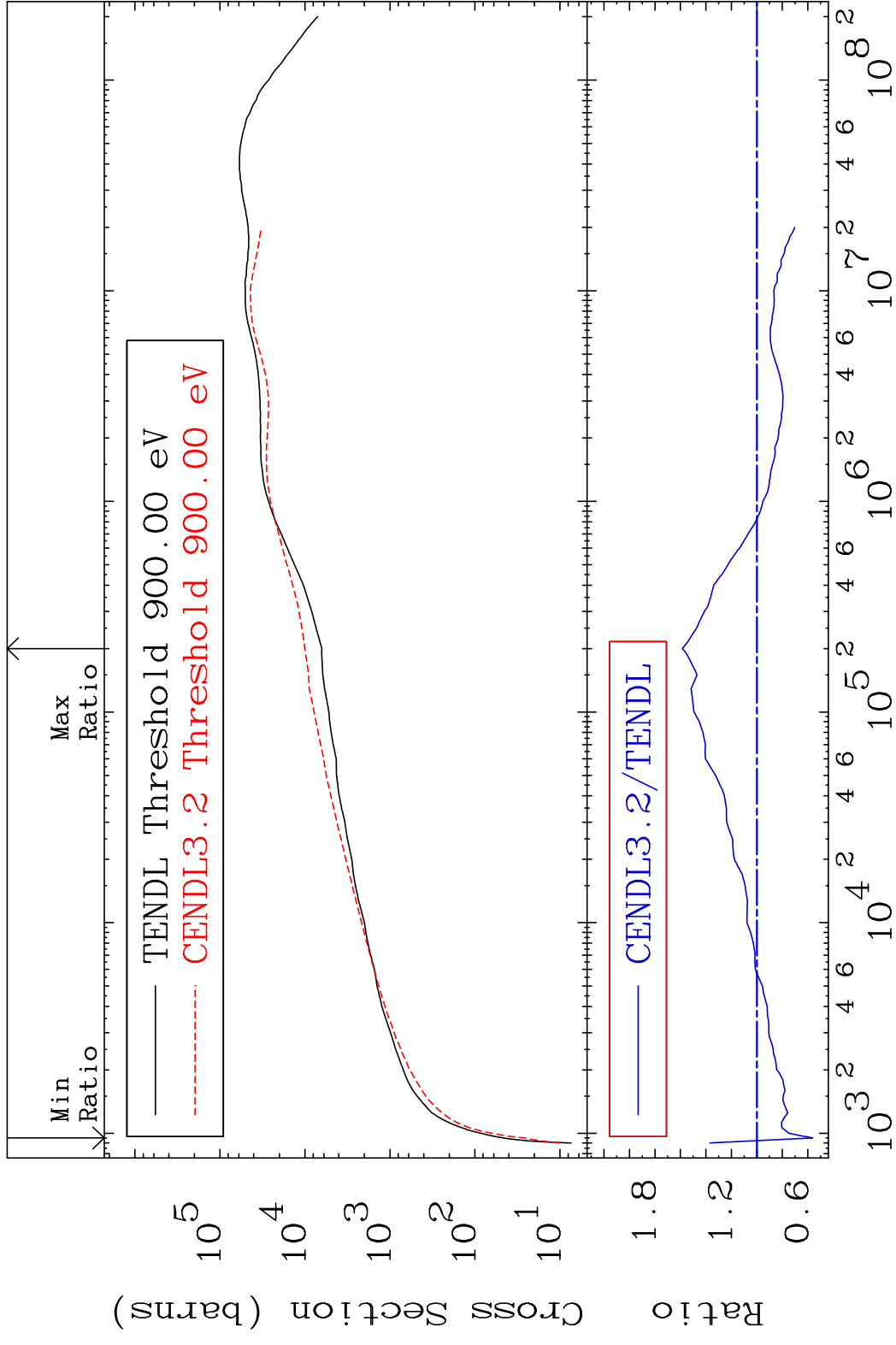


MAT 6040

Dpa elastic (mt2)

60-Nd-147

Cross Section -43.70 To 58.47 %

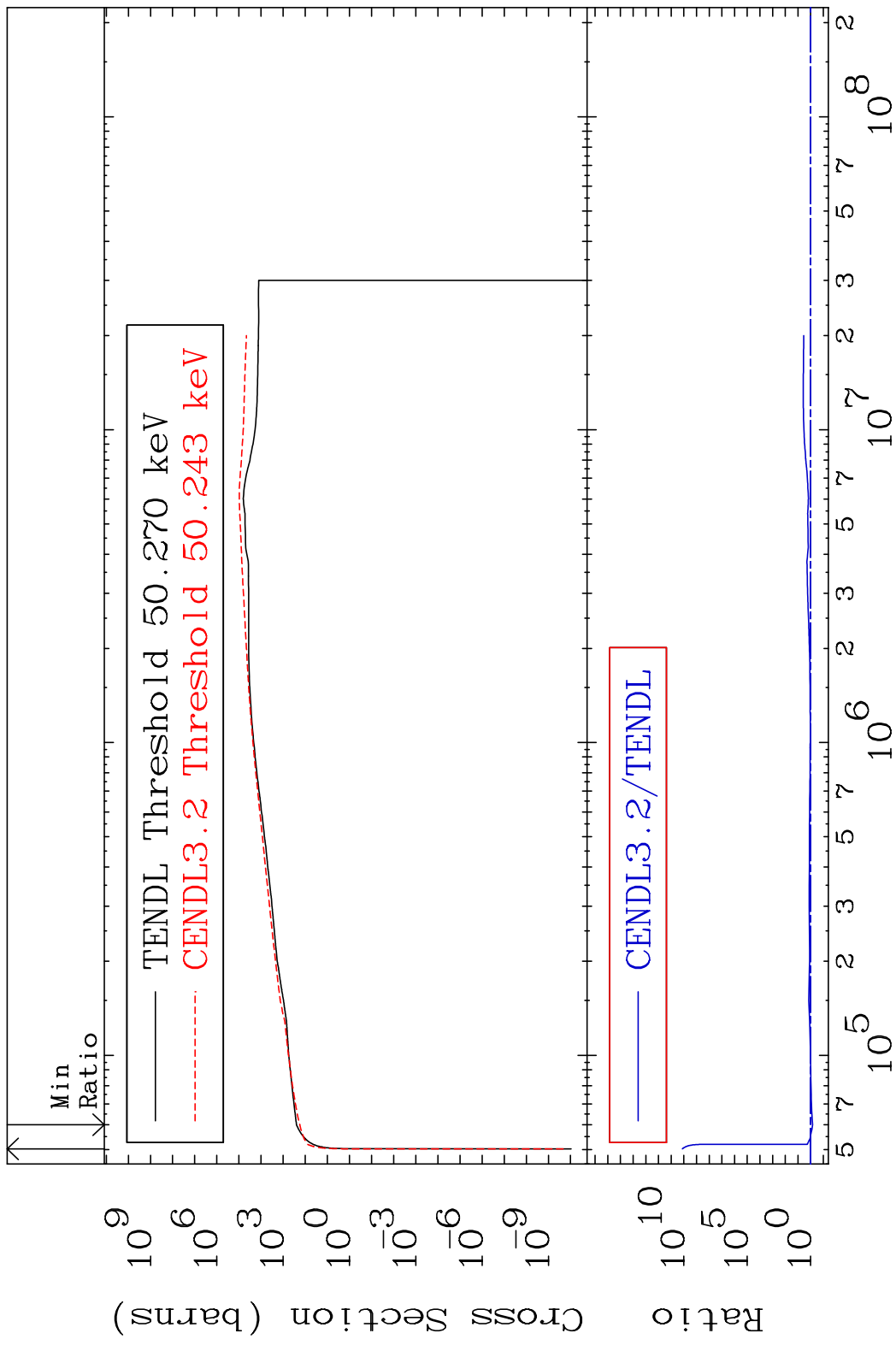


37

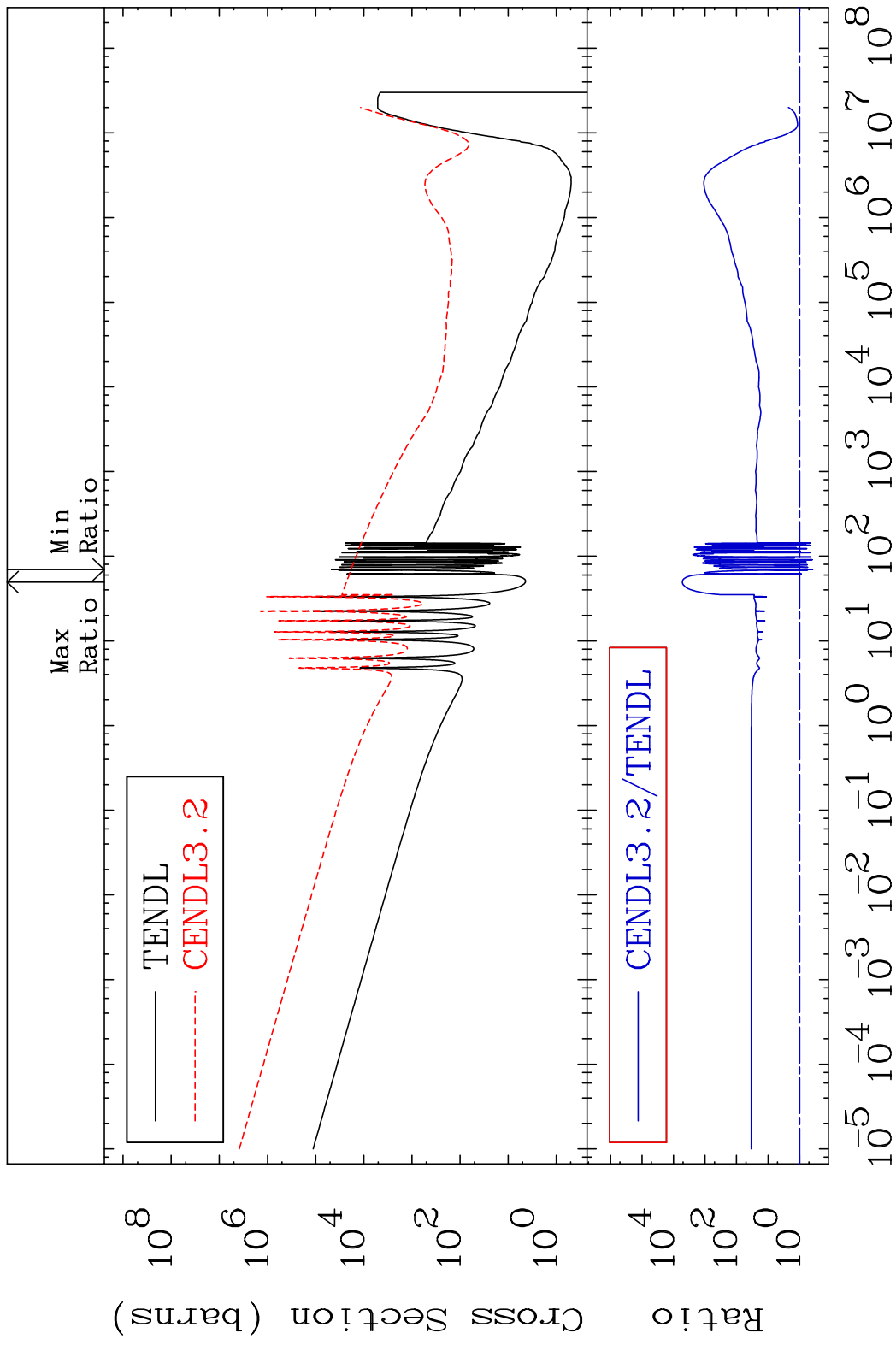
Incident Energy (eV)

60-Nd-147

MAT 6040 Dpa inelastic (mt51-91) 60-Nd-147  
 Cross Section -29.04 To 9999. %

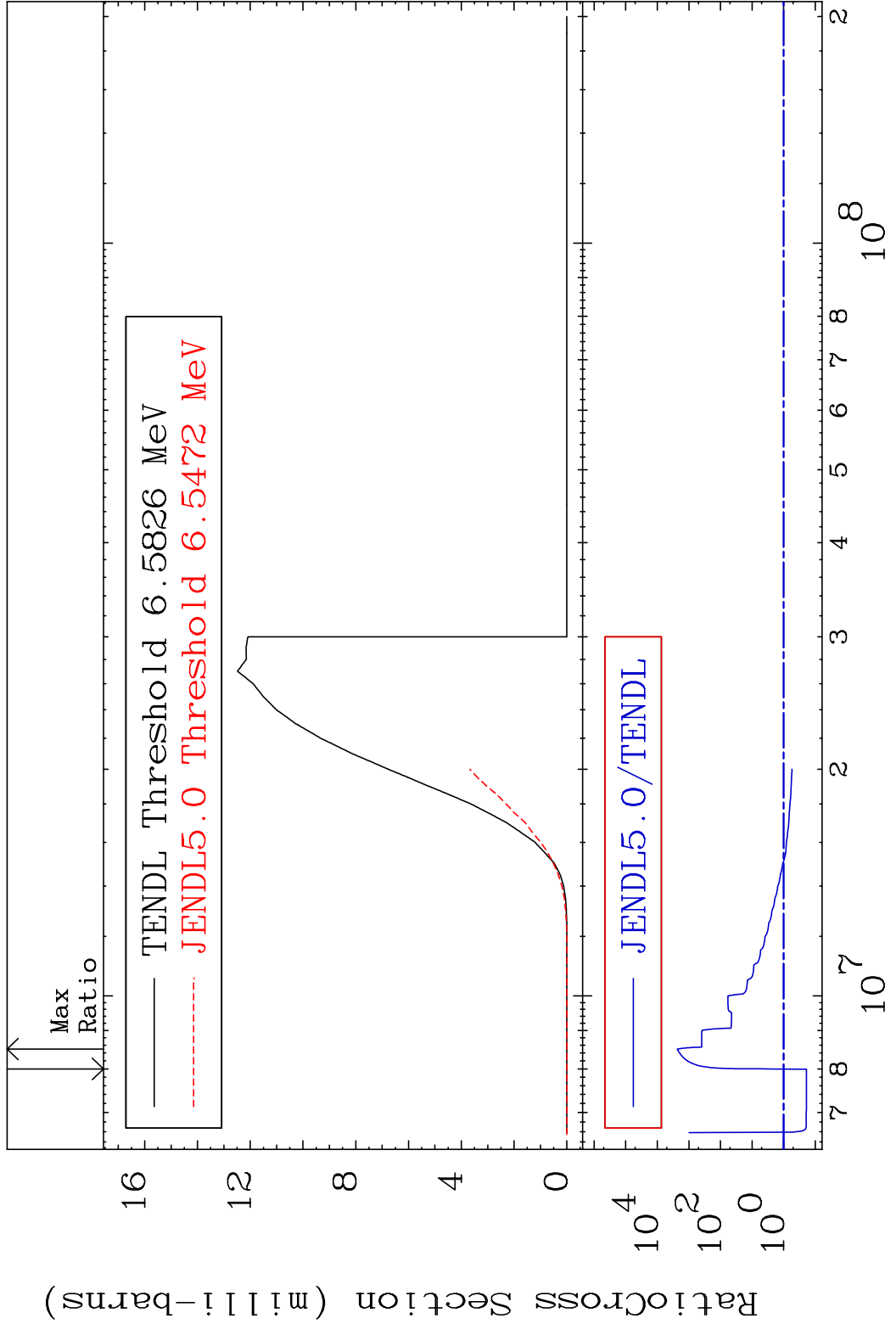


MAT 6040 Dpa disappearance (mt102 -120) 60-Nd-147  
 Cross Section -61.36 To 9999. %



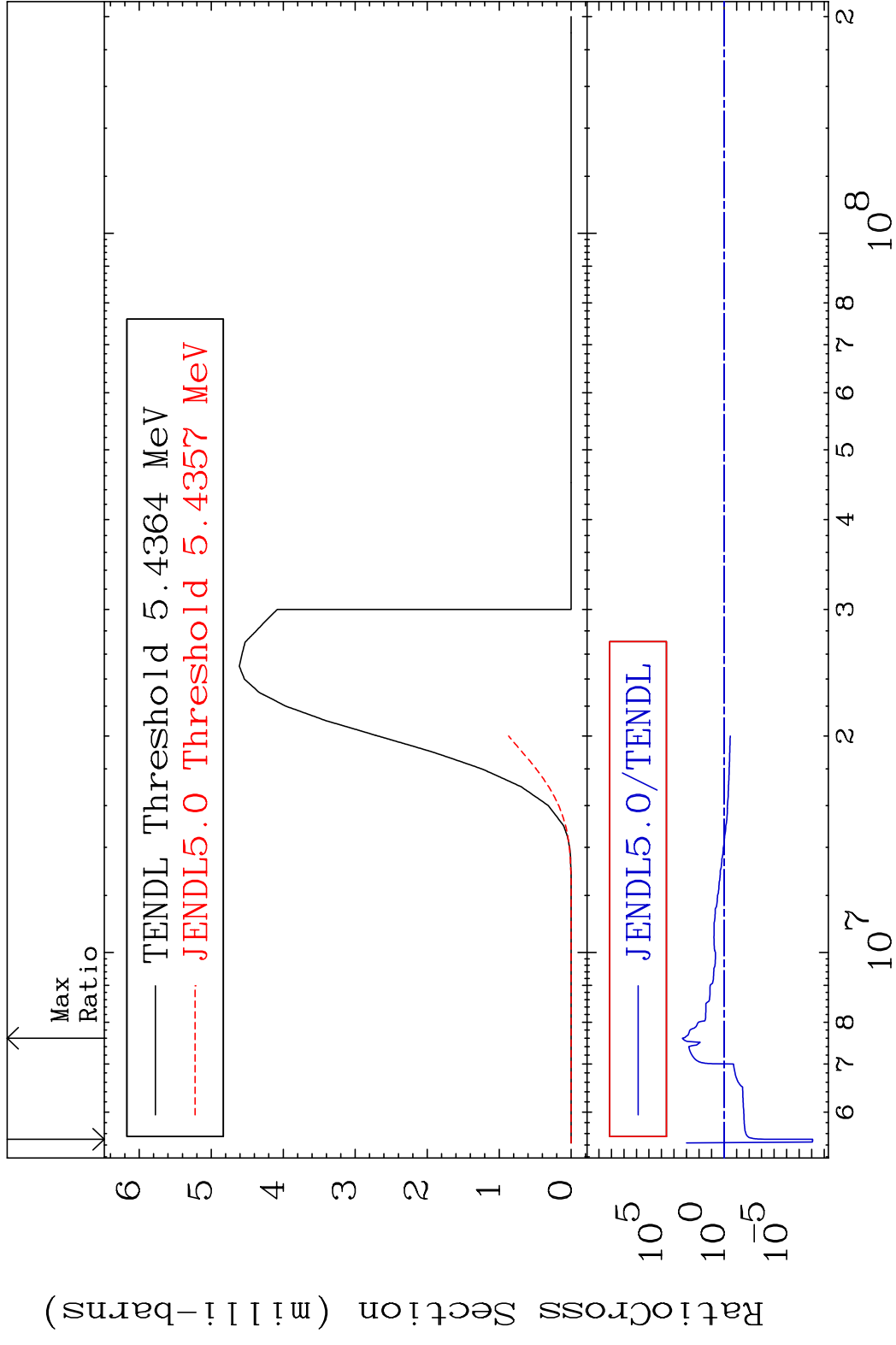


MAT 6040 (n,d) 60-Nd-147  
 Cross Section -80.91 To 9999. %

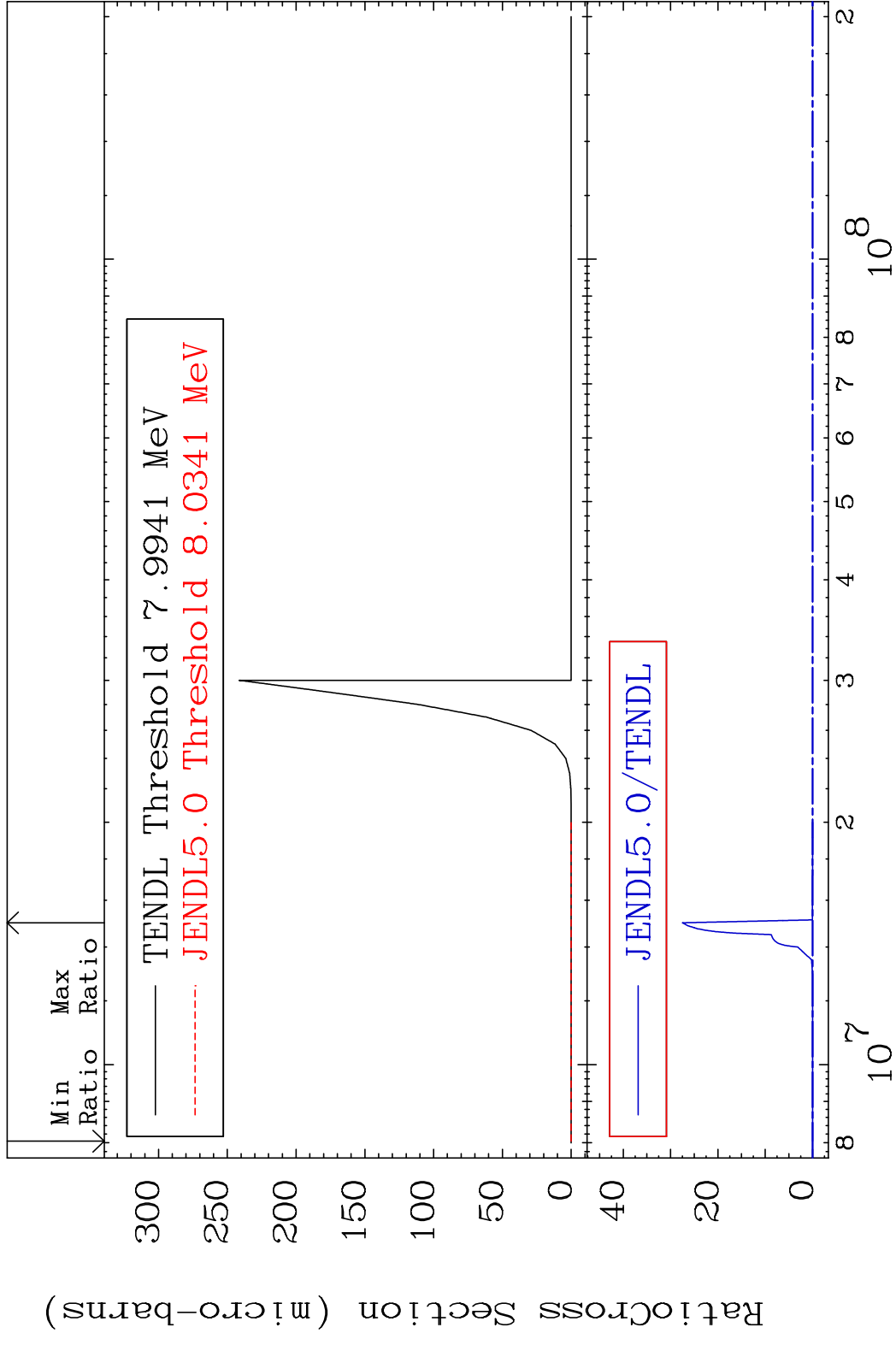


40 60-Nd-147

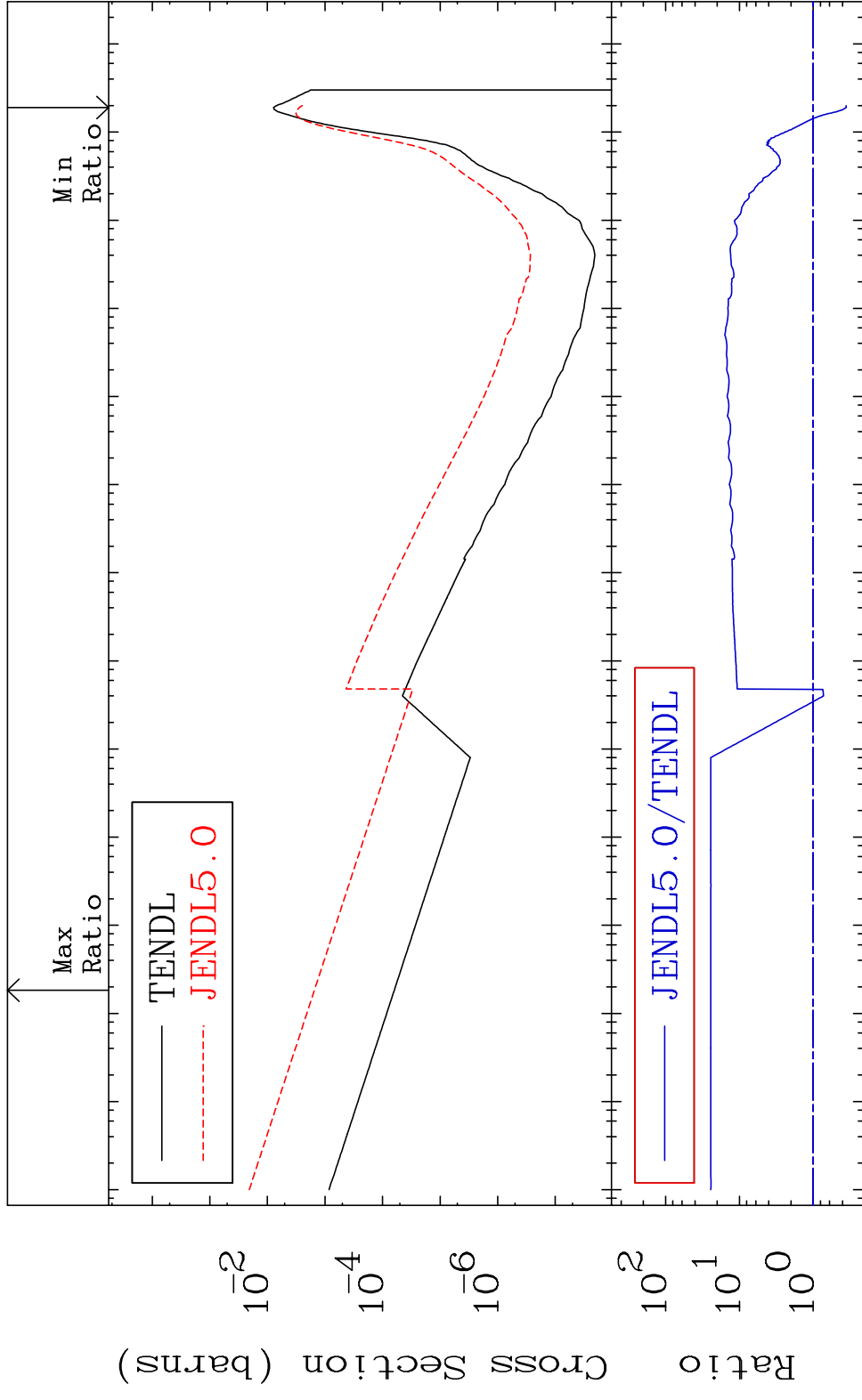
MAT 6040 (n, t) 60-Nd-147  
 Cross Section -100.0 To 9999. %



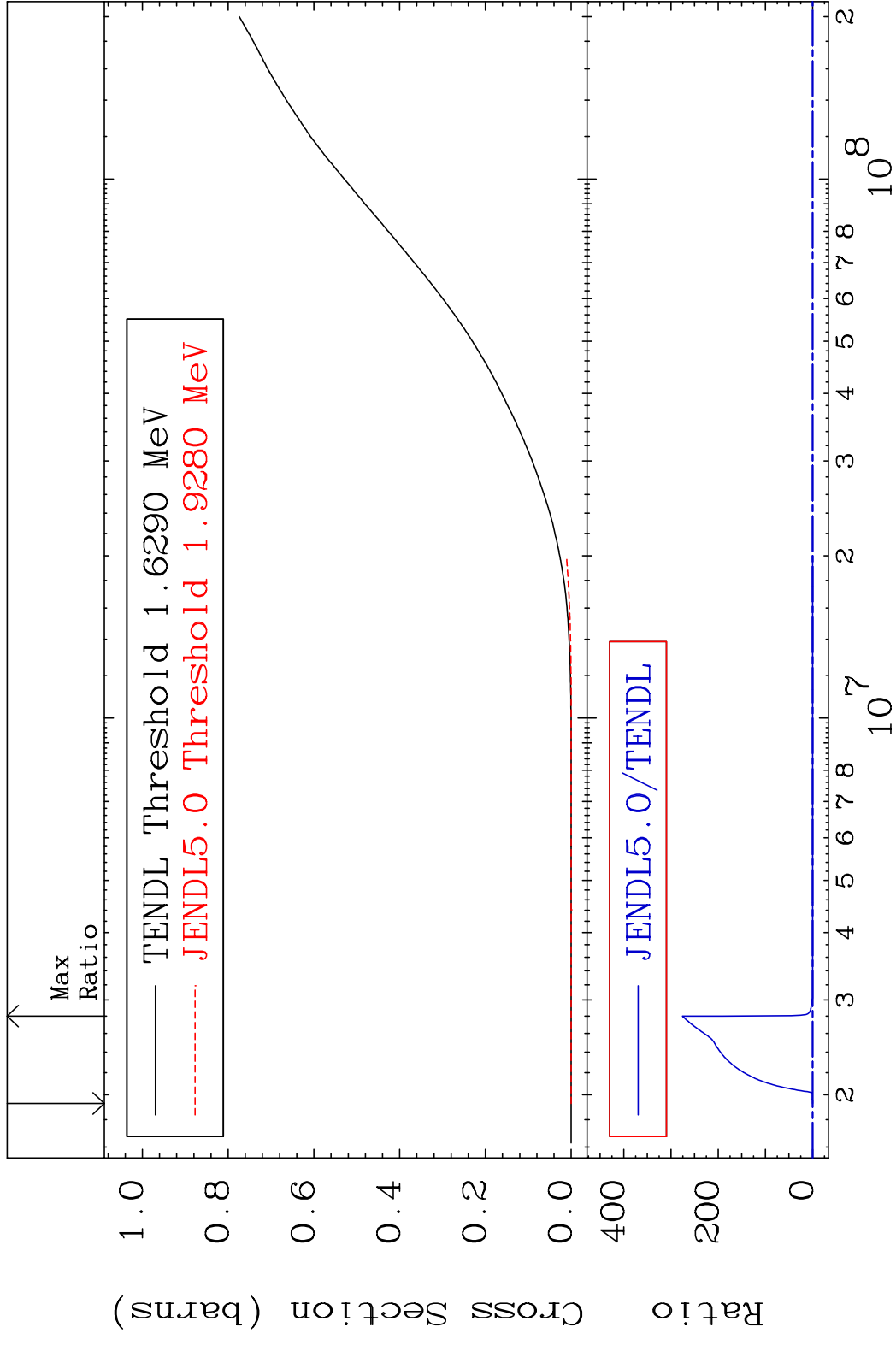
MAT 6040 (n, He-3) 60-Nd-147  
 Cross Section -100.0 To 9999. %



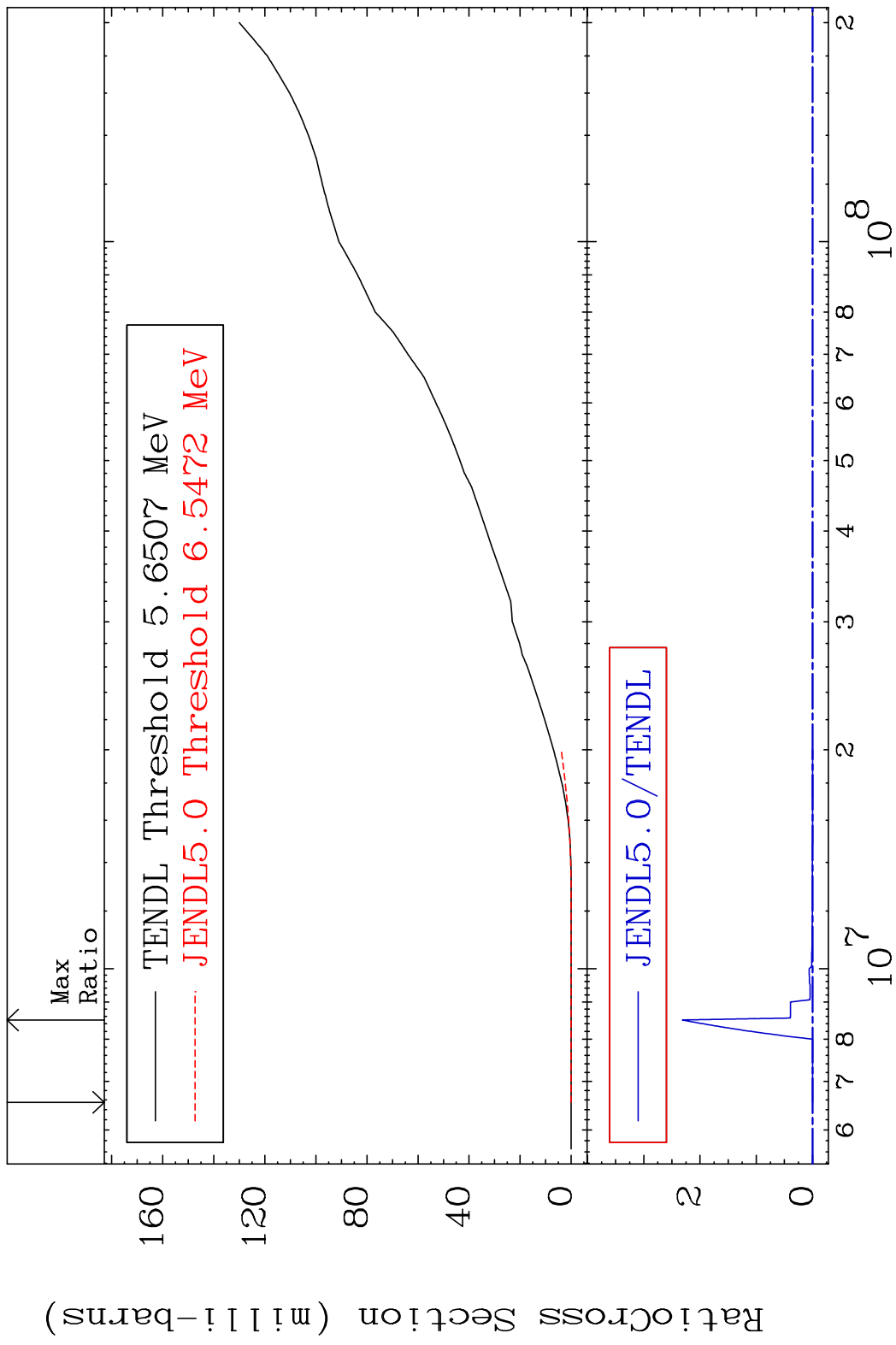
MAT 6040 (n,  $\alpha$ ) Cross Section -64.40 To 2348. % 60-Nd-147



MAT 6040 Hydrogen Production 60-Nd-147  
 Cross Section -100.0 To 9999. %

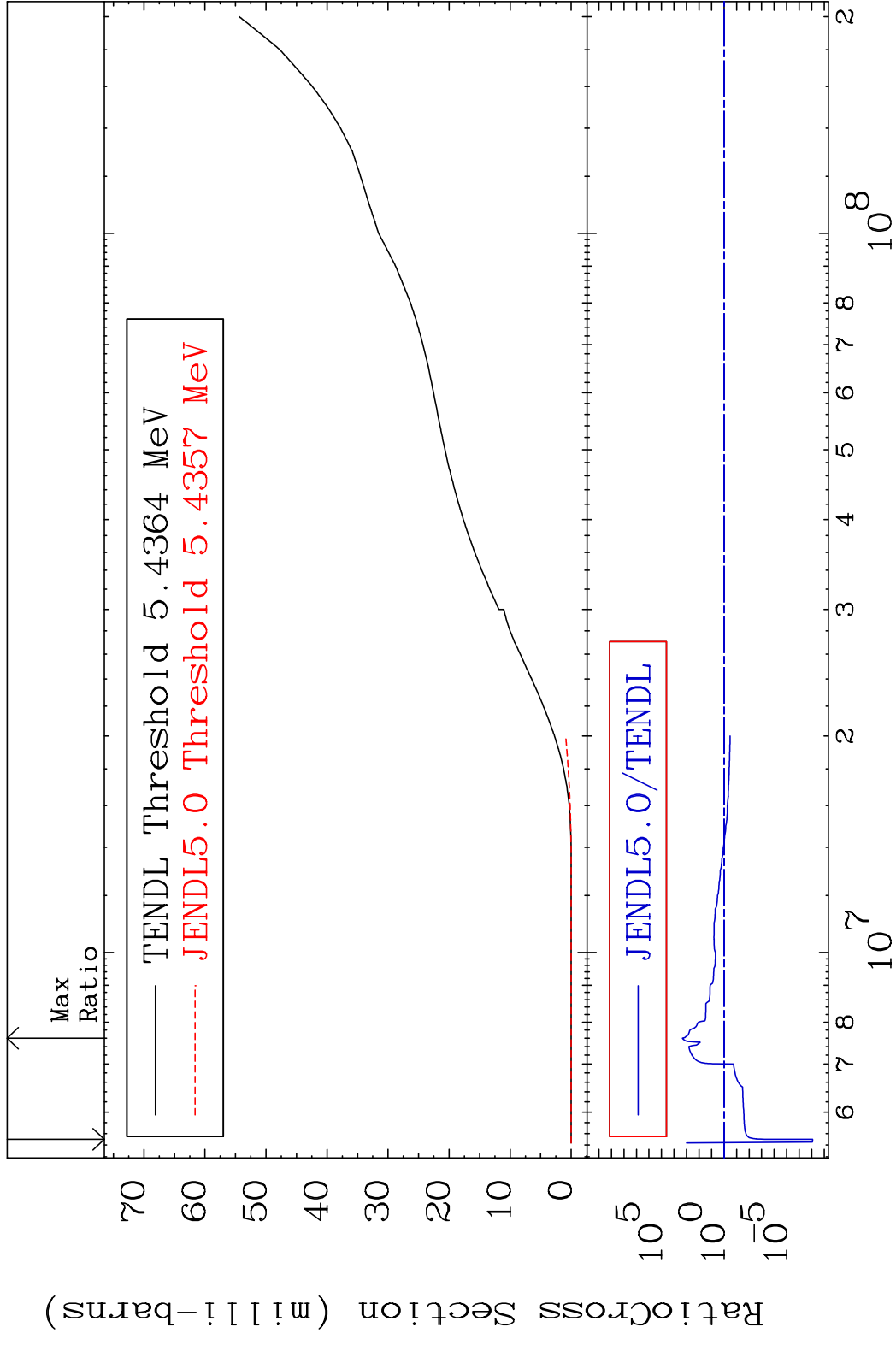


MAT 6040 Deuterium Production 60-Nd-147  
 Cross Section -100.0 To 9999. %



45 60-Nd-147

MAT 6040 Tritium Production 60-Nd-147  
 Cross Section -100.0 To 9999. %

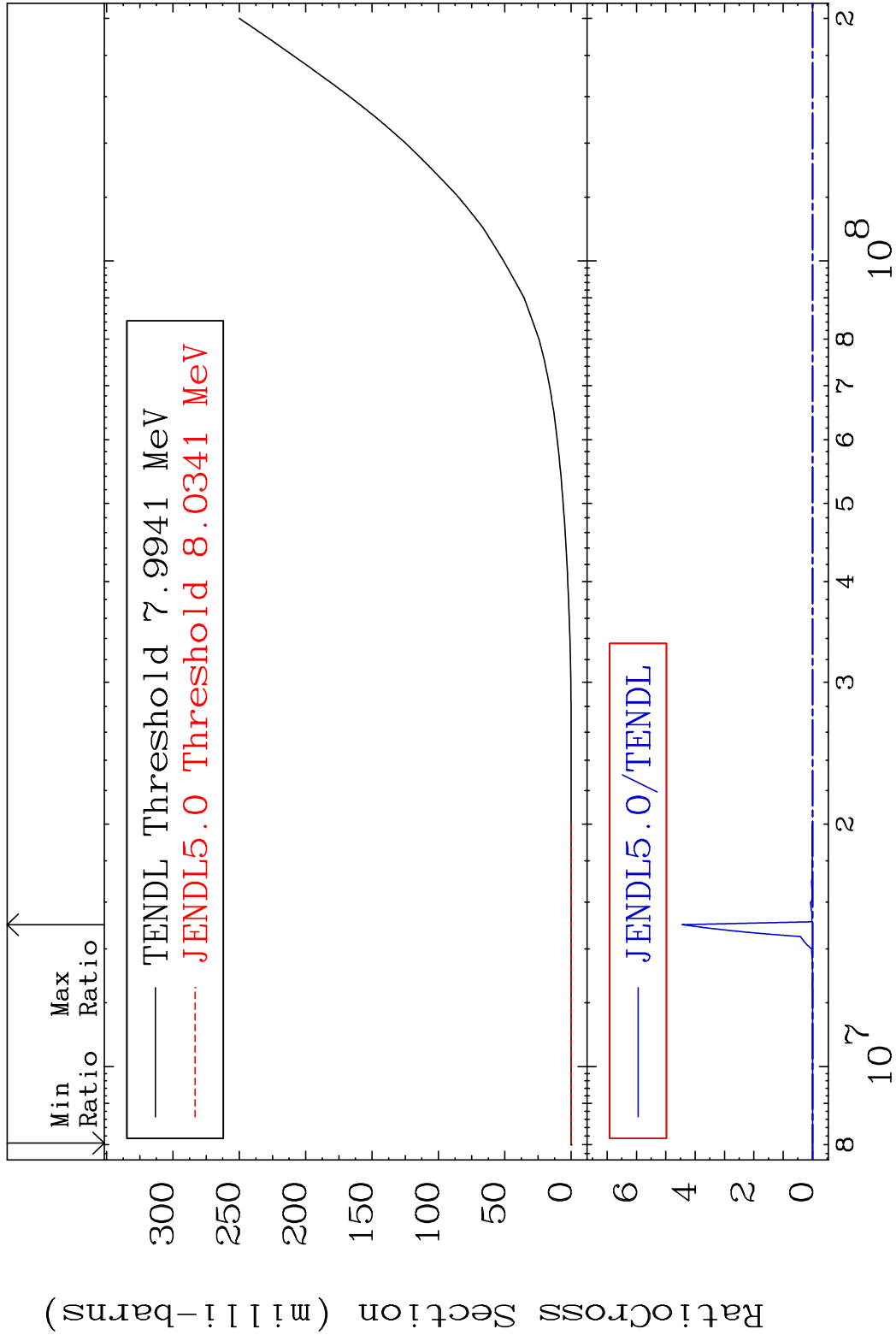


MAT 6040

He-3 Production

60-Nd-147

Cross Section -100.0 To 9999. %



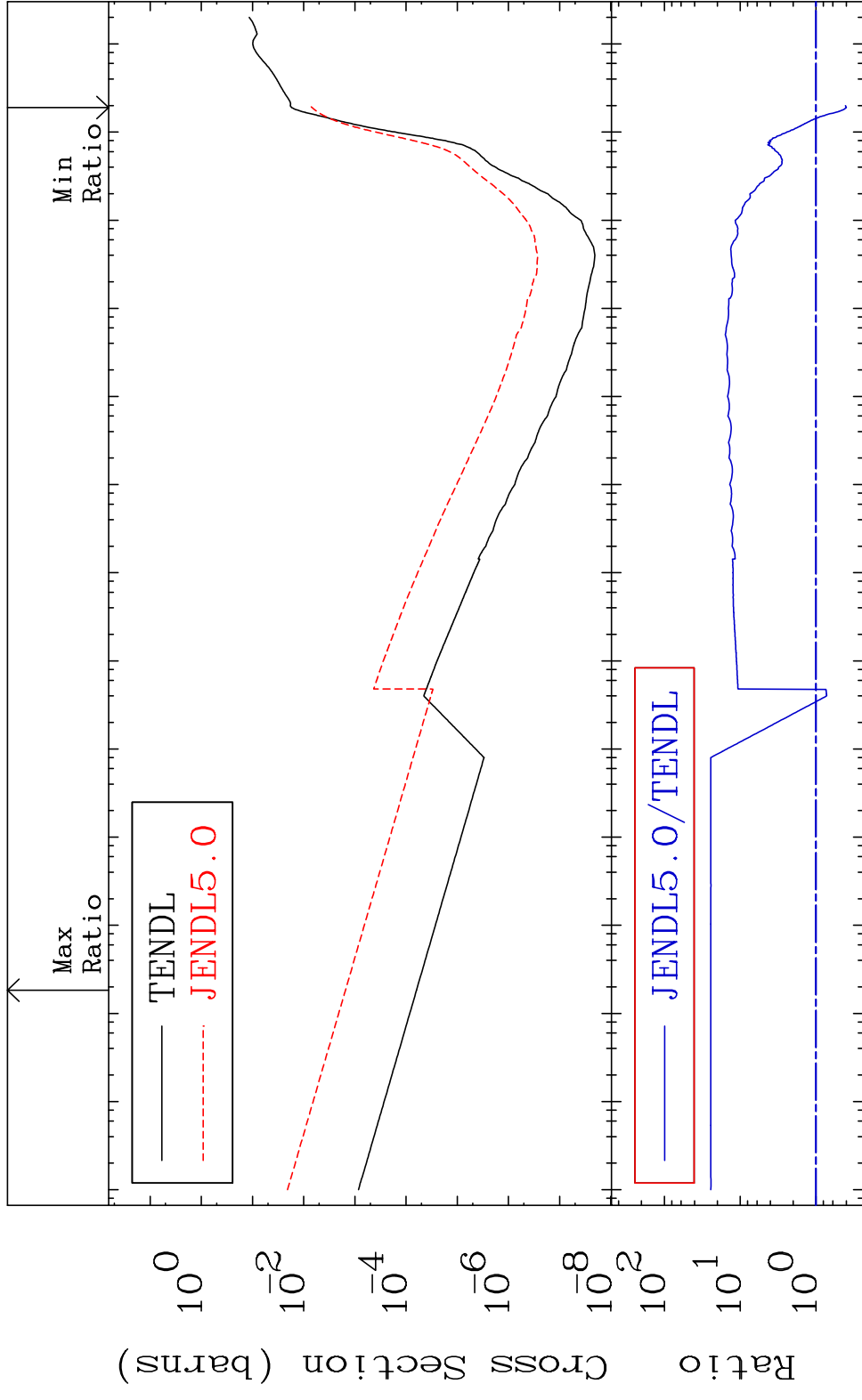
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Incident Energy (eV)

60-Nd-147



MAT 6040 He-4 Production 60-Nd-147  
 Cross Section -60.06 To 2348. %

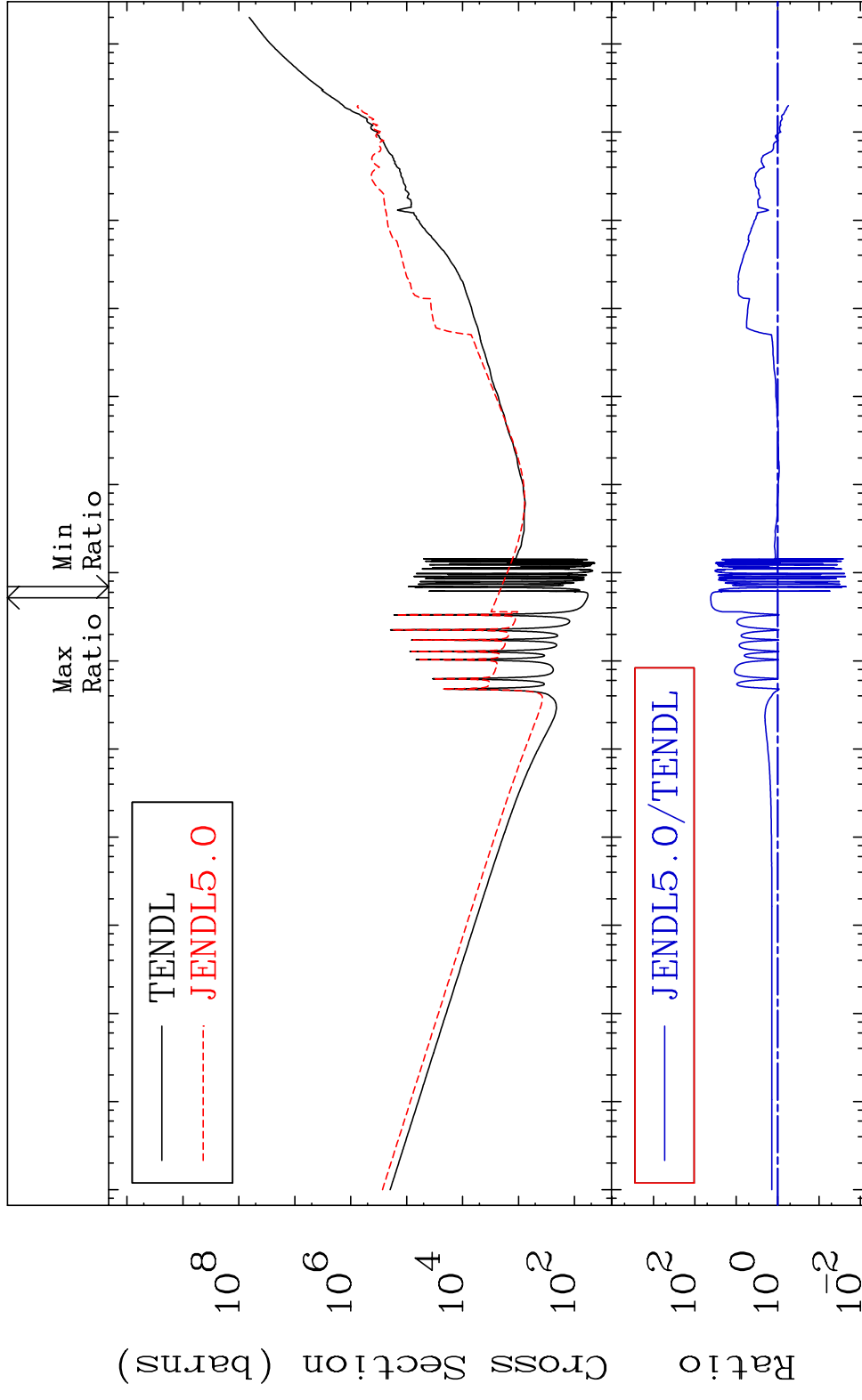


Ratio  
 Cross Section (barns)

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

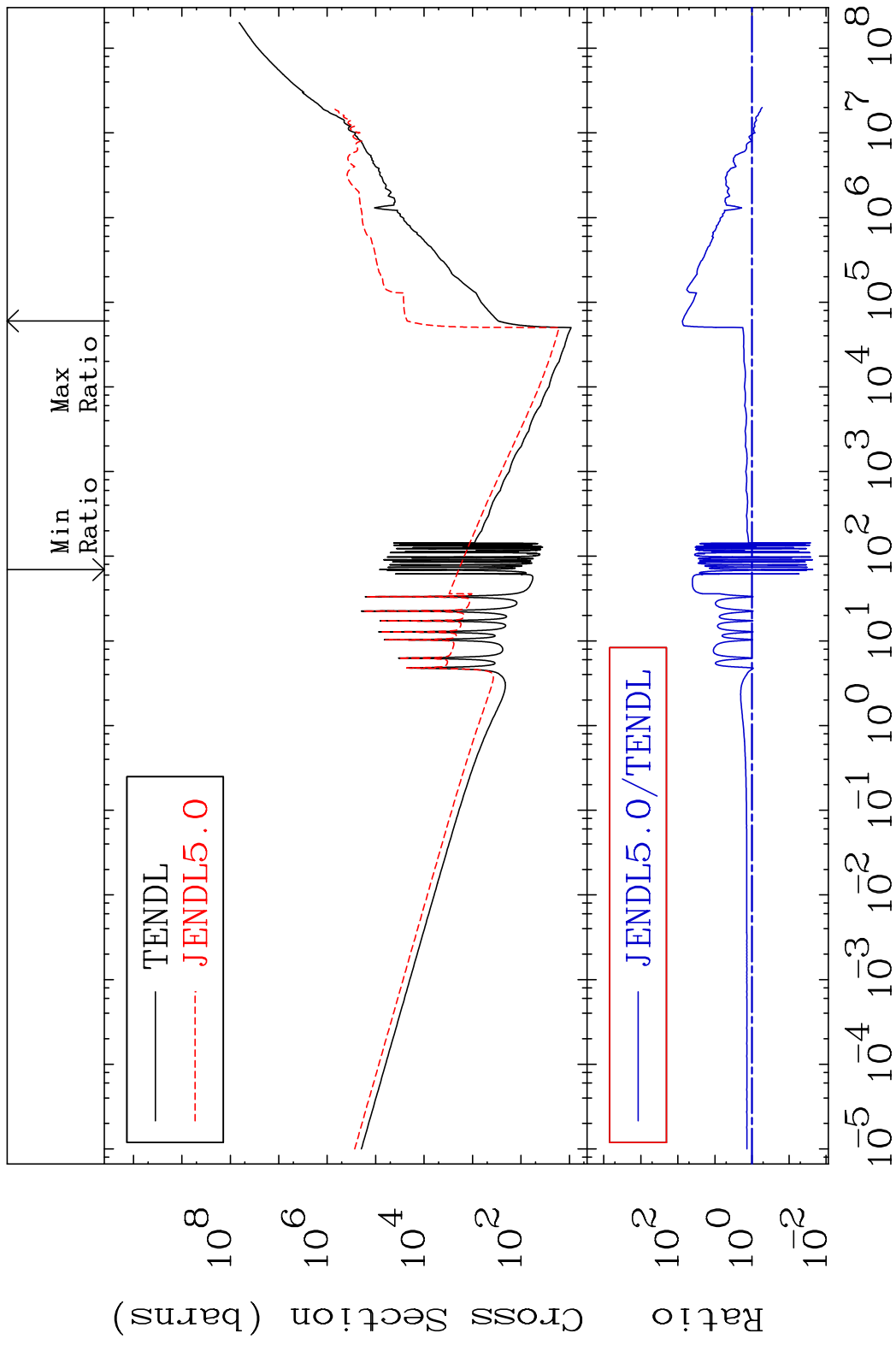
MAT 6040 Kerma total (eV-barns) 60-Nd-147  
 Cross Section -97.81 To 4035. %



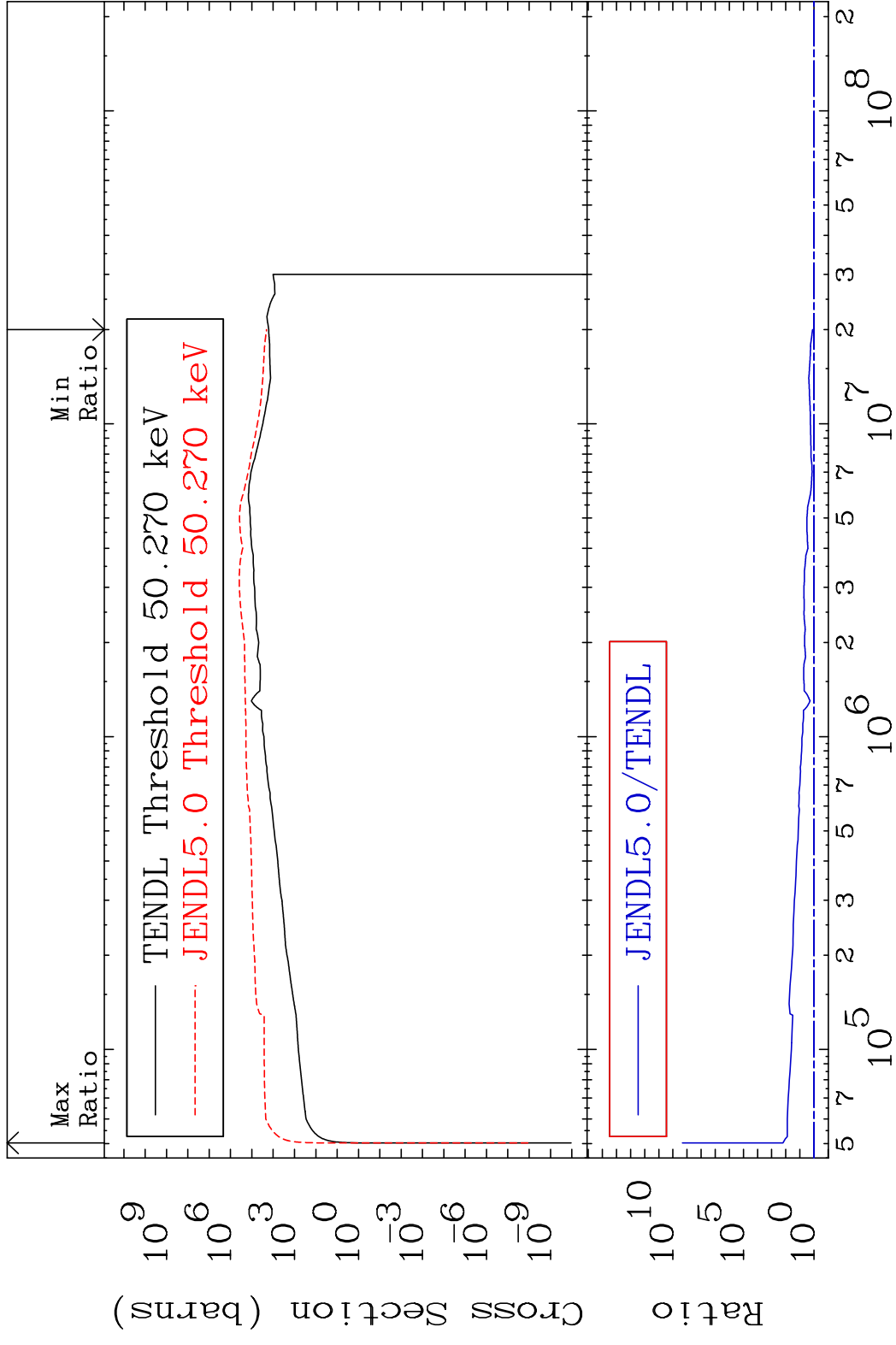
Ratio  
 Cross Section (barns)  
 Incident Energy (eV)



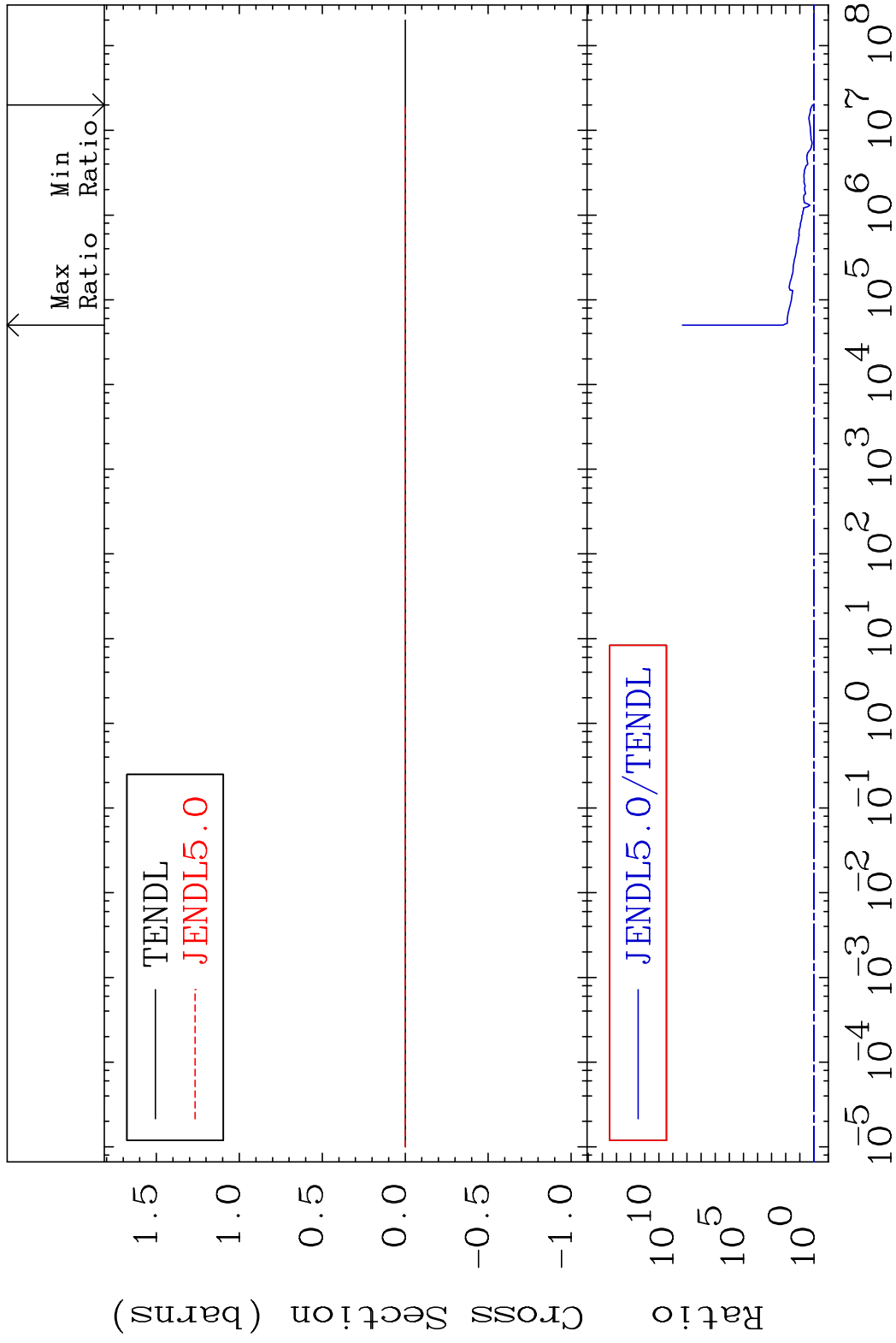
MAT 6040 Kerma non-elastic (all but mt2) 60-Nd-147  
 Cross Section -97.68 To 7463. %



MAT 6040 Kerma inelastic (mt51-91) 60-Nd-147  
 Cross Section 25.70 To 9999. %



MAT 6040 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-147  
 Cross Section 25.70 To 9999. %

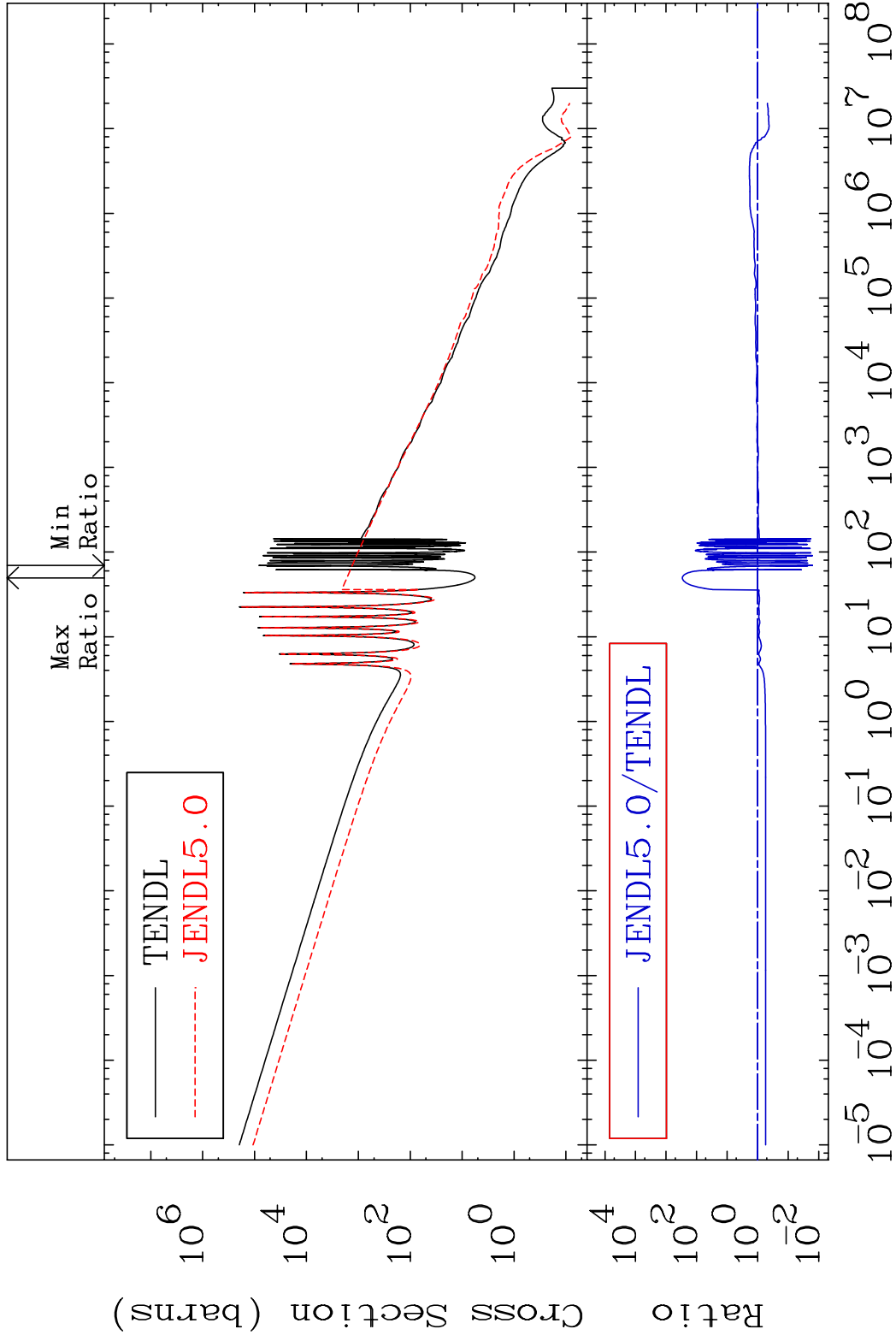


MAT 6040

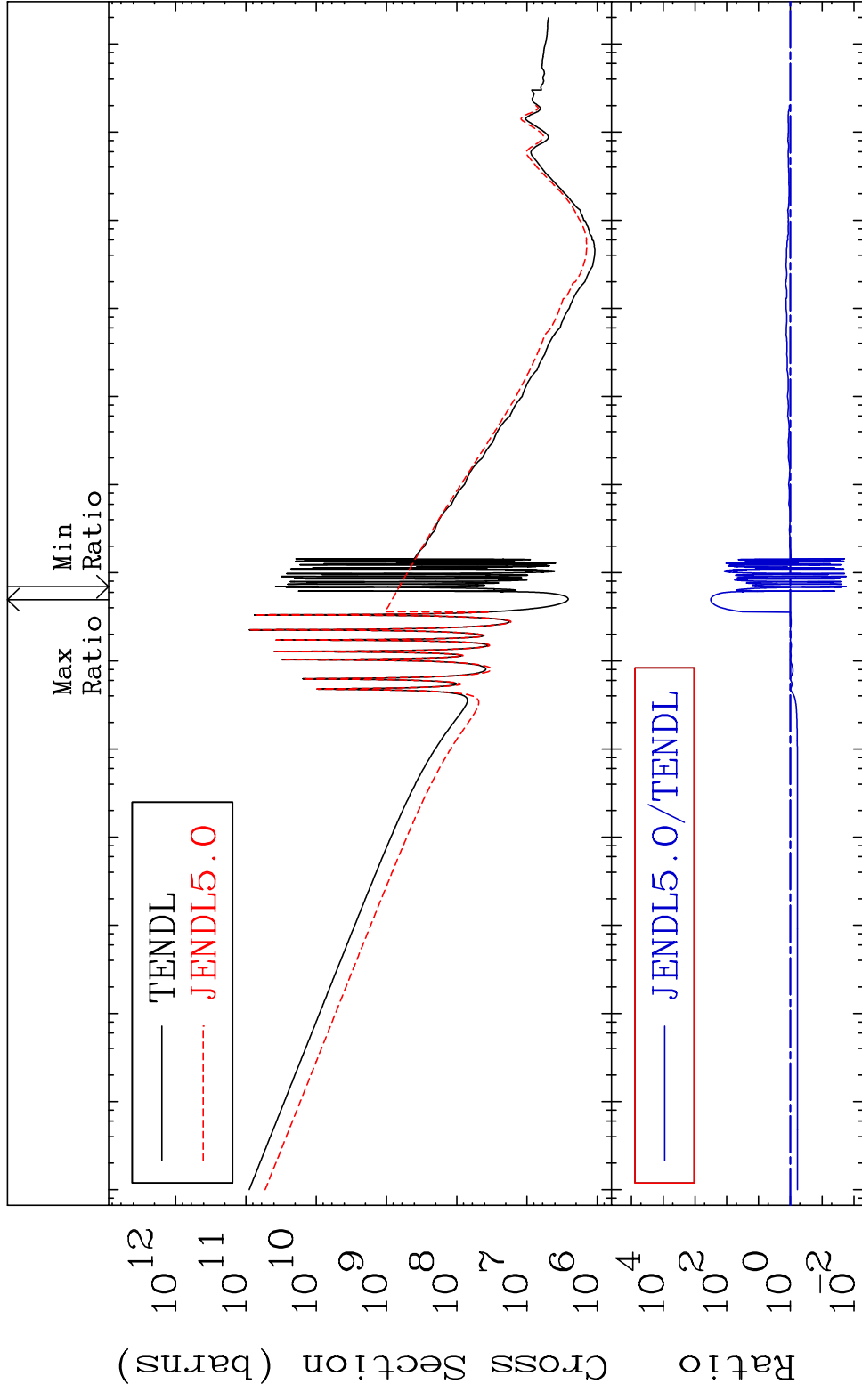
Kerma capture (mt102)

60-Nd-147

Cross Section -98.42 To 9999. %



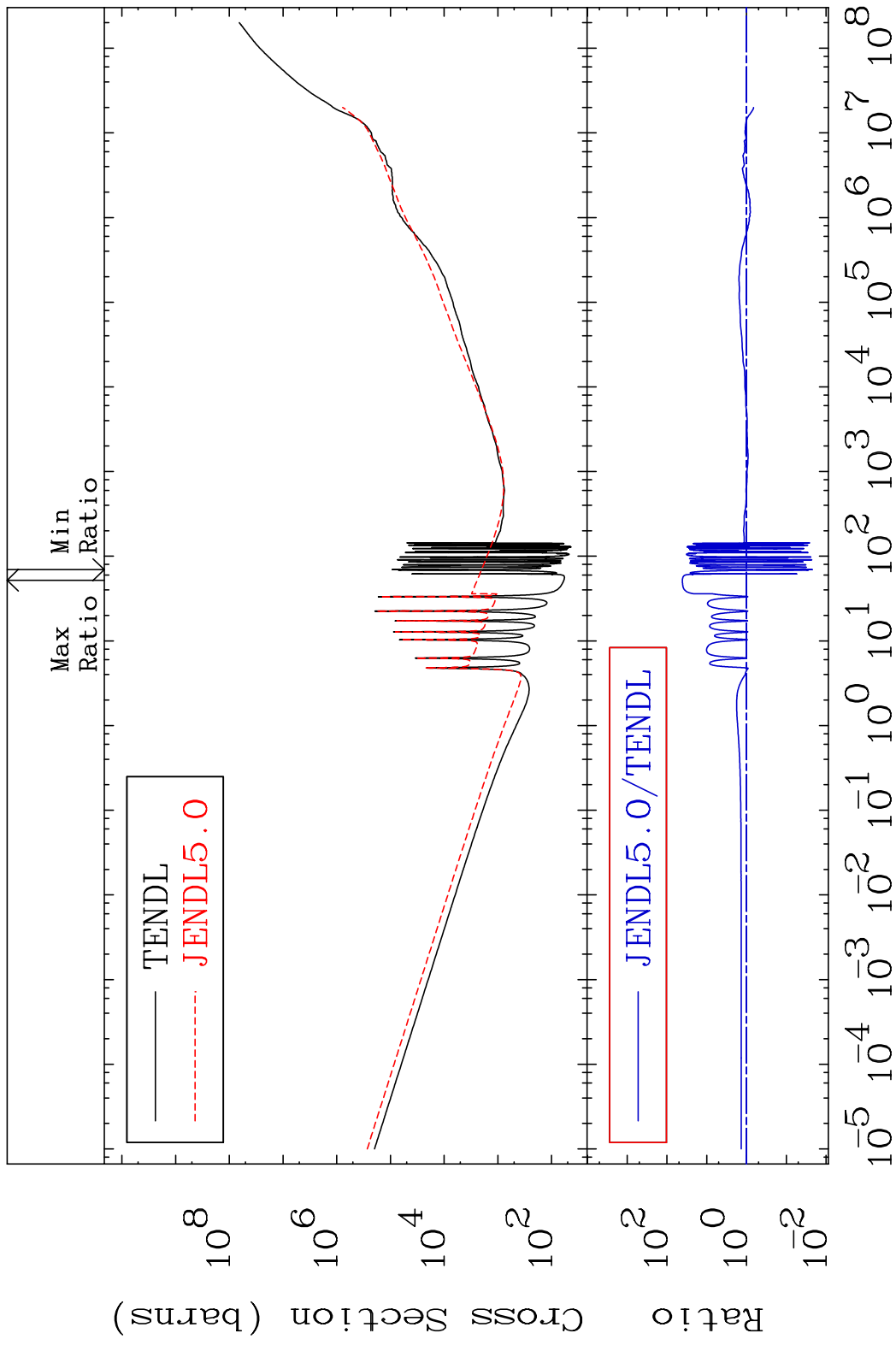
MAT 6040 Total photon (eV-barns) 60-Nd-147  
 Cross Section -98.27 To 9999. %



55 Incident Energy (eV) 60-Nd-147



MAT 6040 Total kinematic kerma (high limit) 60-Nd-147  
 Cross Section -97.81 To 4010. %

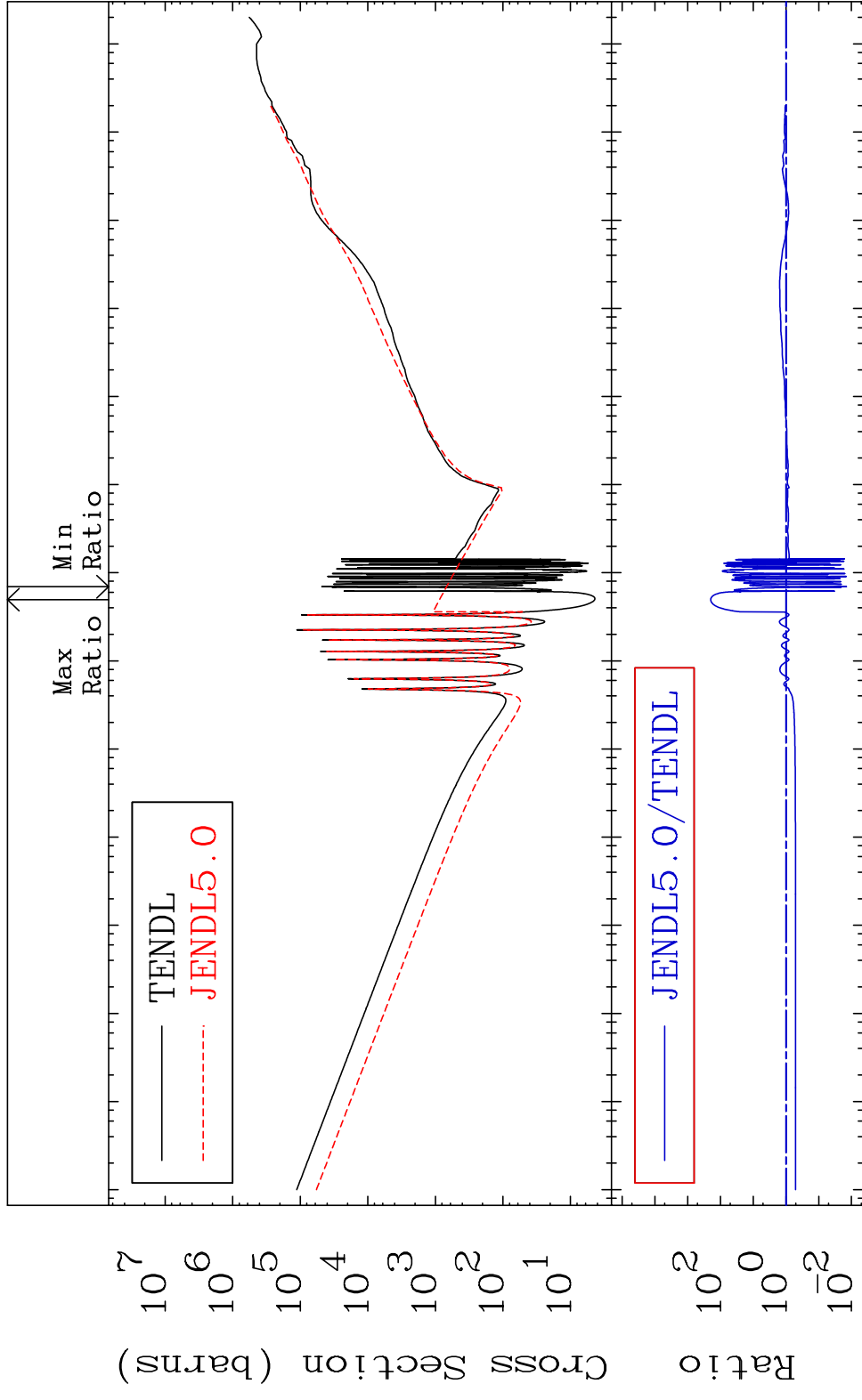


MAT 6040

Dpa total (eV-barns)

60-Nd-147

Cross Section -98.56 To 9999. %

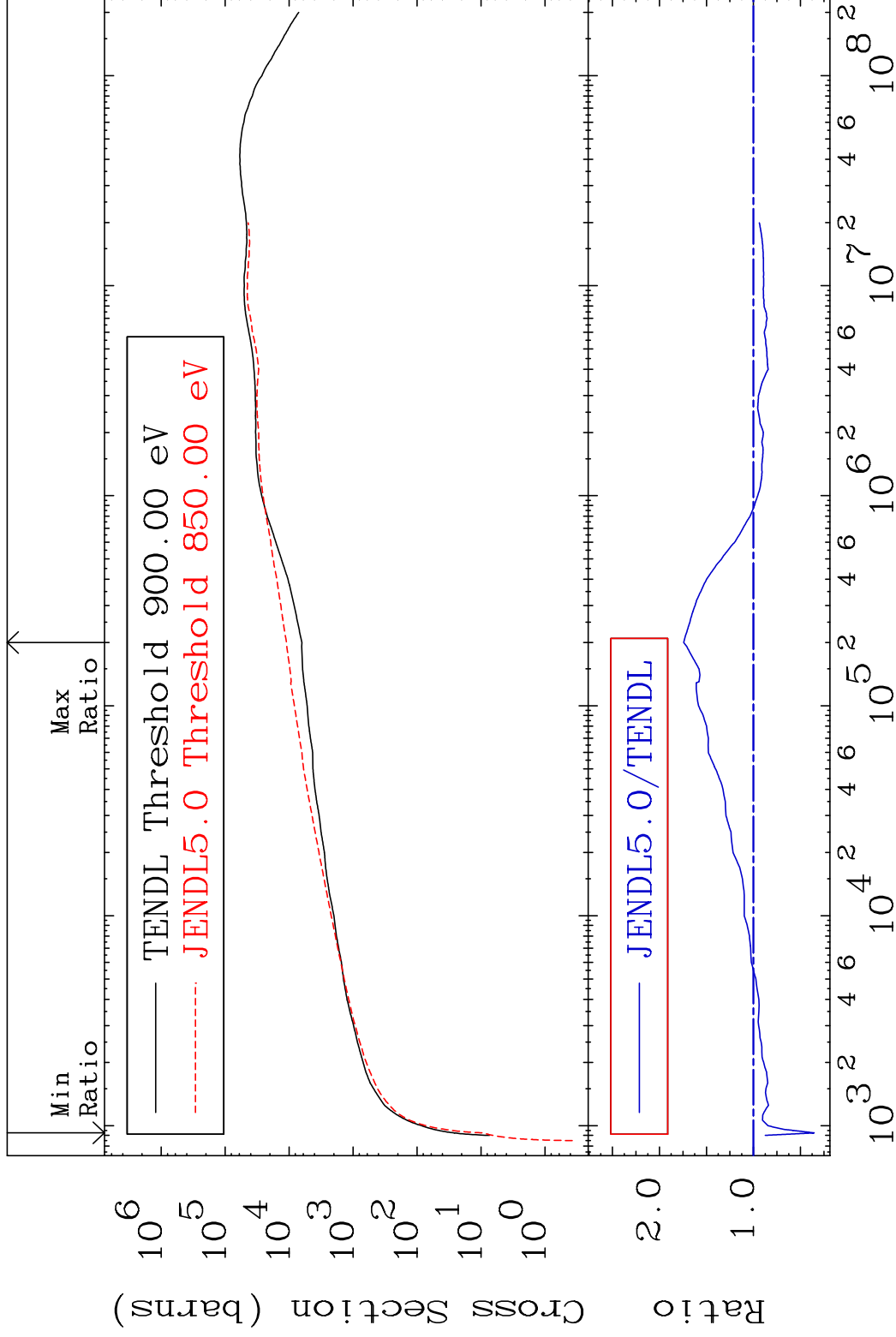


MAT 6040

Dpa elastic (mt2)

60-Nd-147

Cross Section -64.55 To 74.27 %

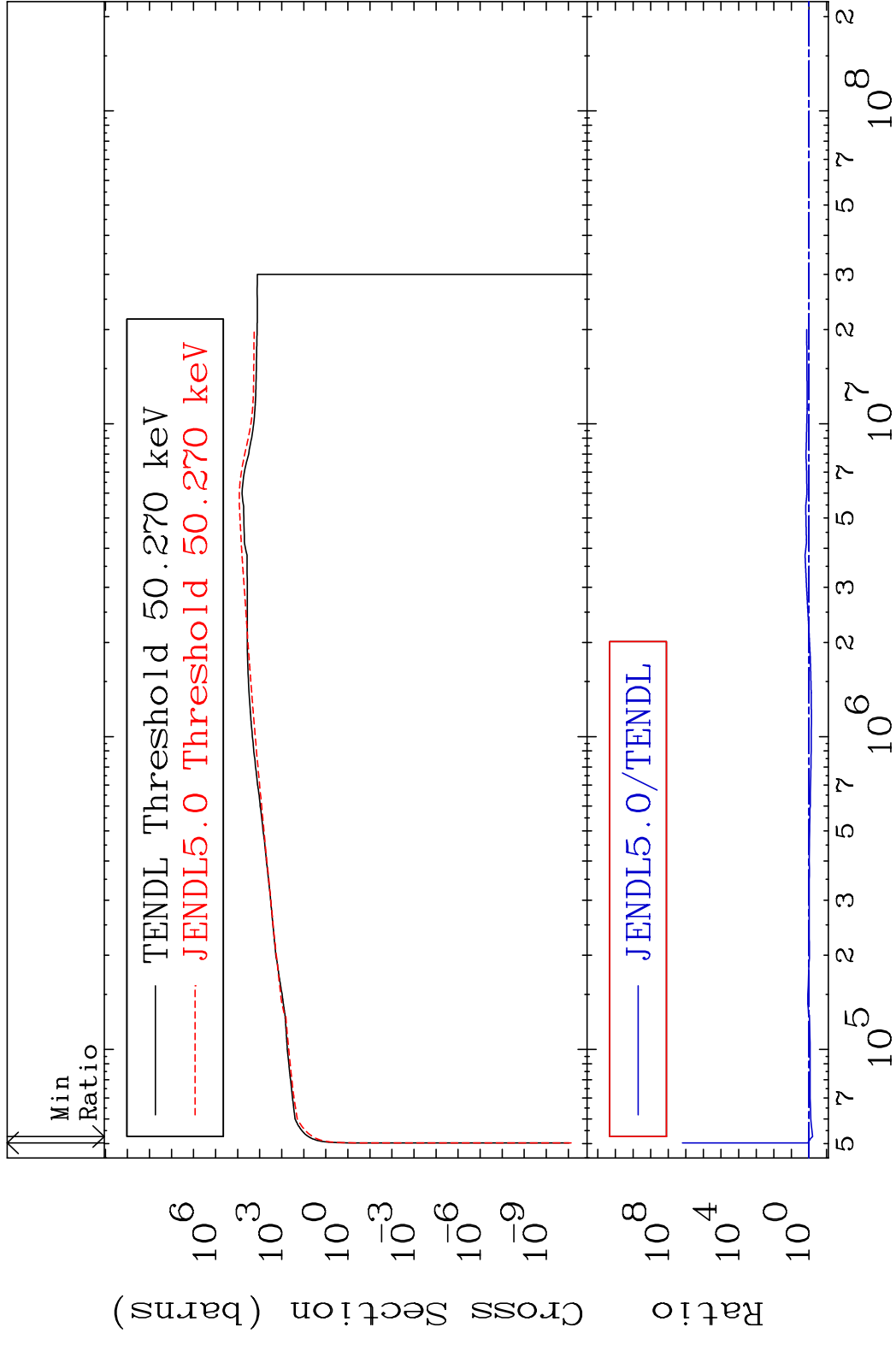


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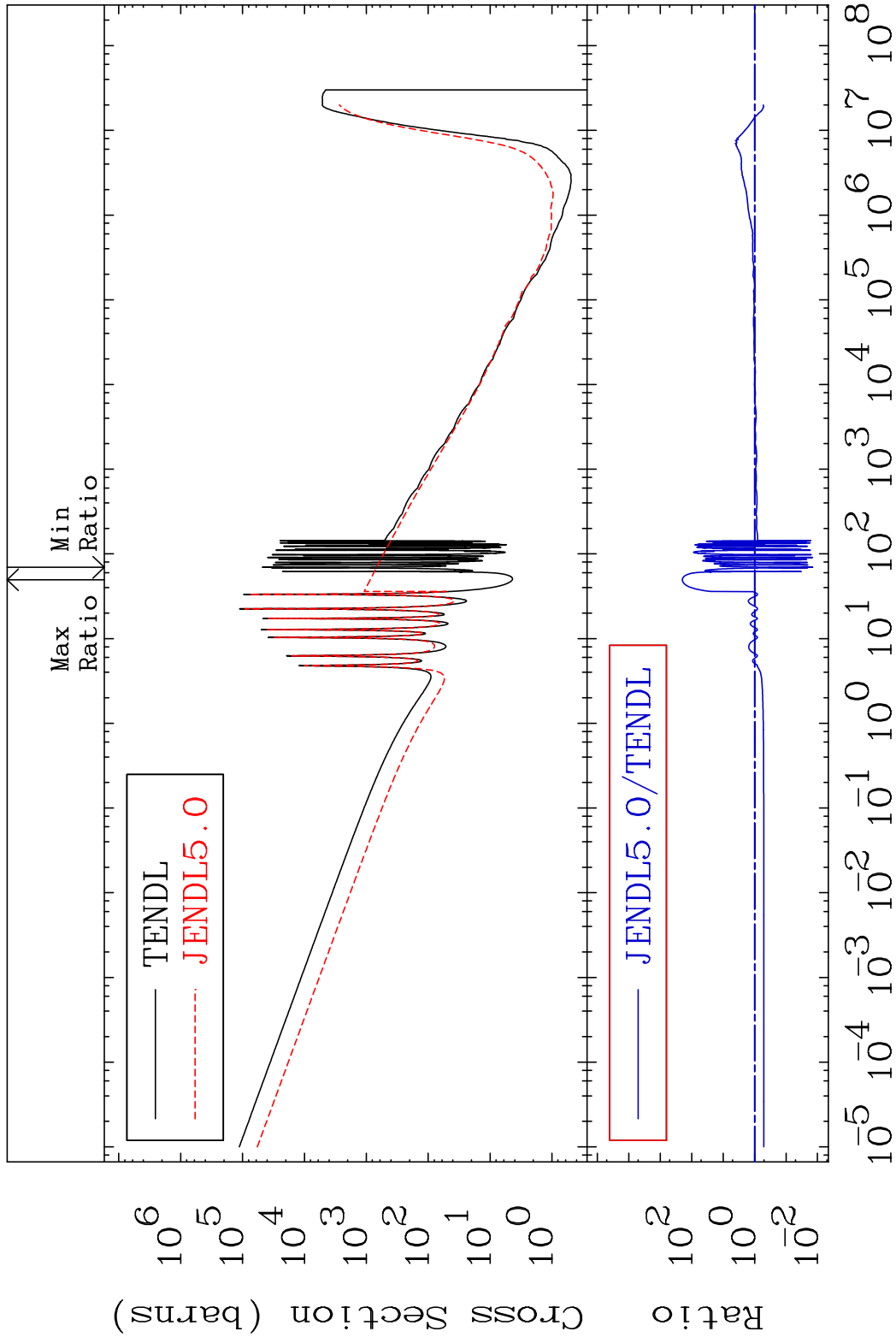
Incident Energy (eV)

60-Nd-147

MAT 6040 Dpa inelastic (mt51-91) 60-Nd-147  
 Cross Section -36.99 To 9999. %



MAT 6040 Dpa disappearance (mt102 -120) 60-Nd-147  
Cross Section -98.56 To 9999. %



60 Incident Energy (eV) 60-Nd-147

MAT 6040 (n, n') t:59-Pr-144g 60-Nd-147  
 Radionuclide Production Cross Section 180.0 mb to 3829. %

