

Program Complot  
(Version 2021-1)

by

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Press Mouse Button to Start

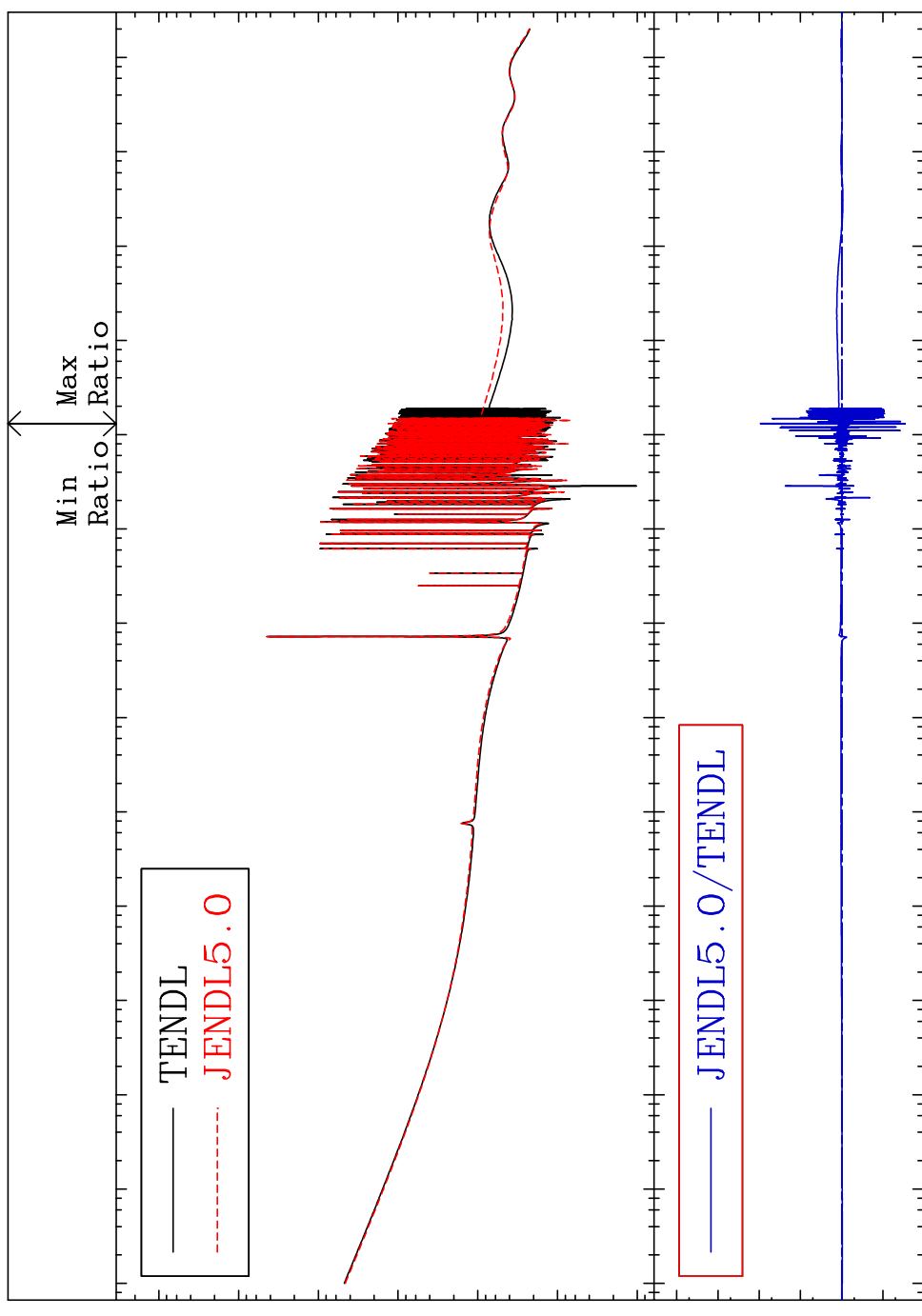
MAT 5728

Total

57-La-139

Cross Section

-97.12 To 9374. %



1

Incident Energy (eV)

57-La-139

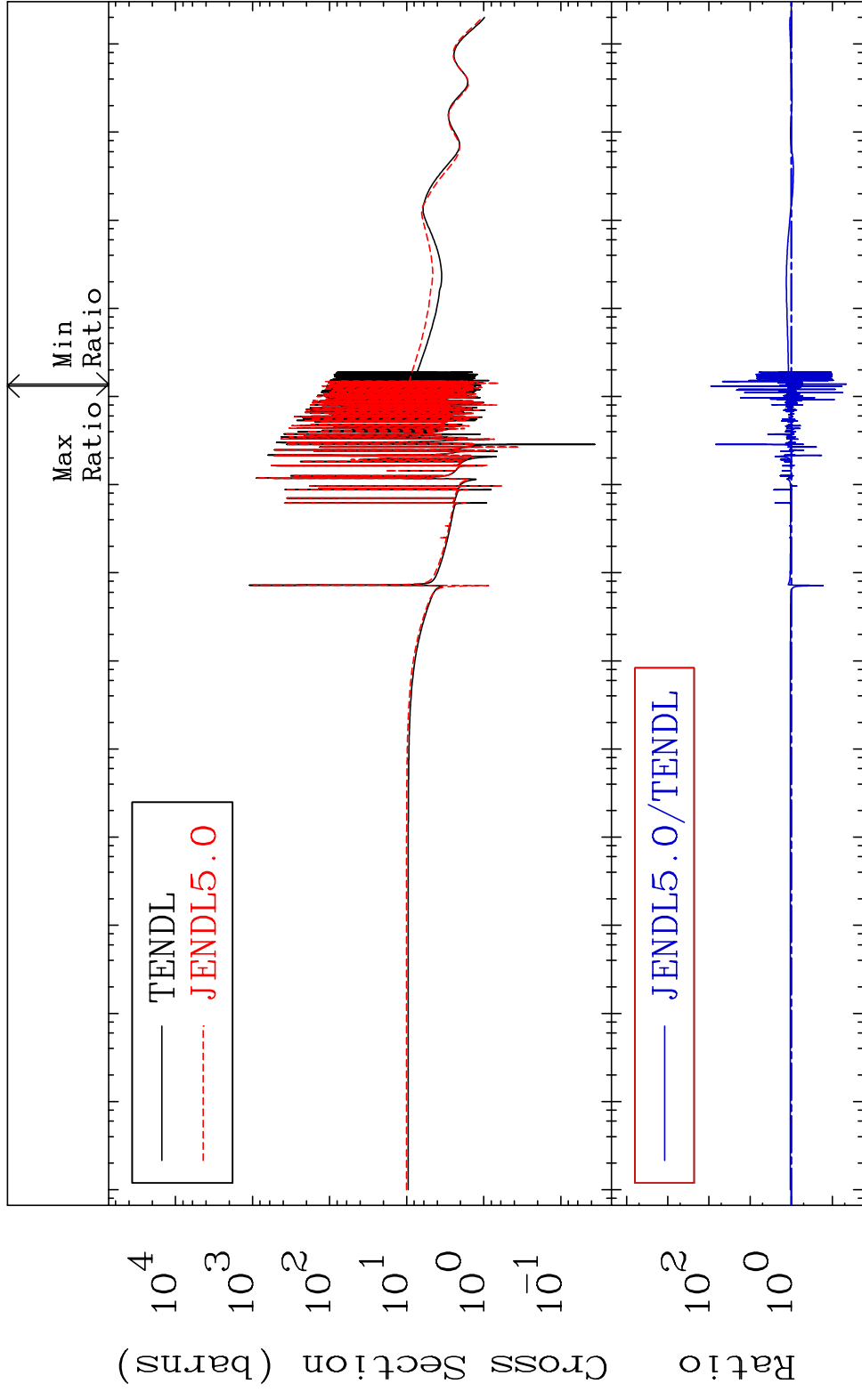
MAT 5728

Elastic

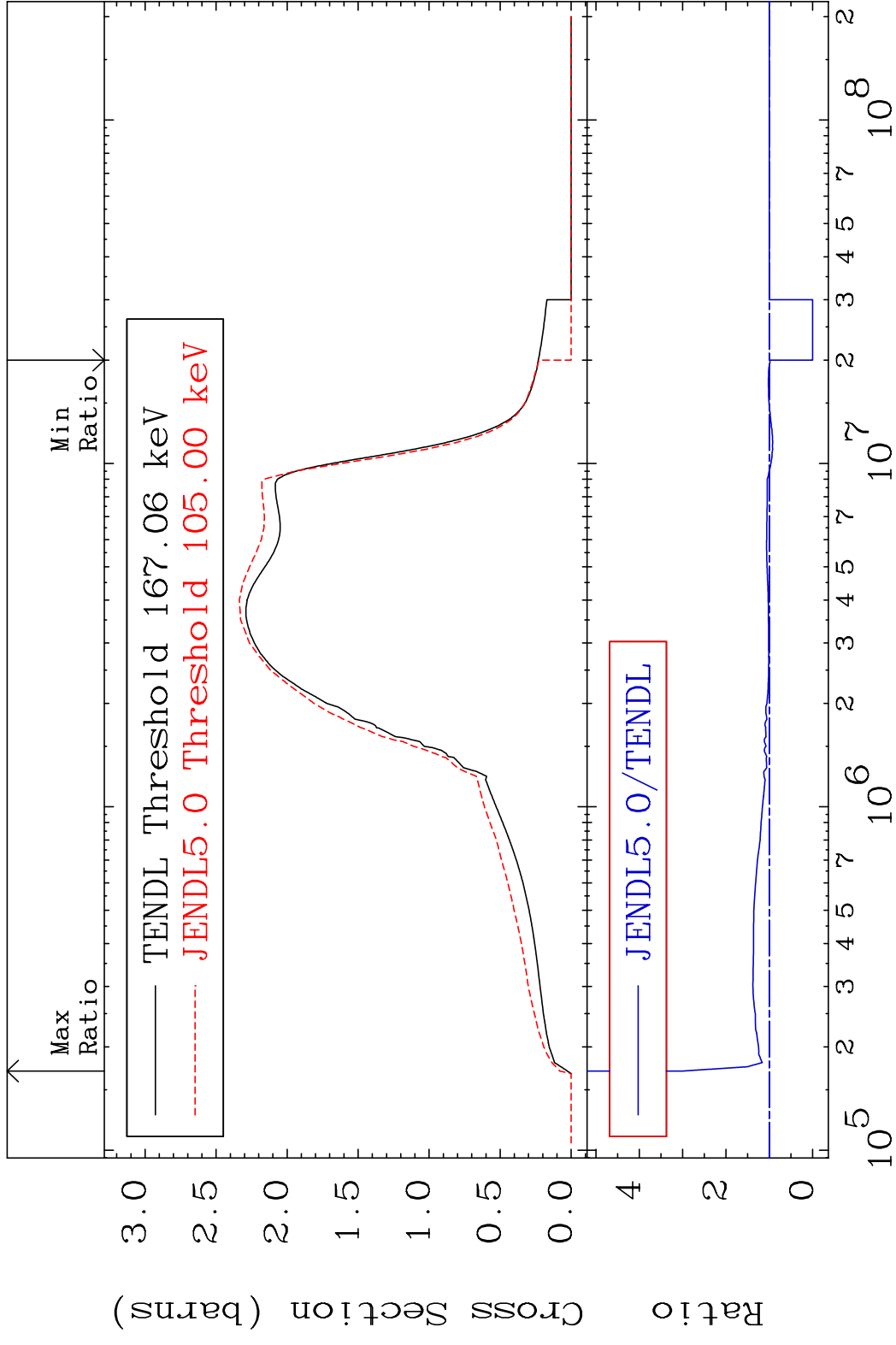
57-La-139

Cross Section

-95.41 To 8943. %



MAT 5728 Inelastic 57-La-139  
 Cross Section -100.0 To 200.5 %



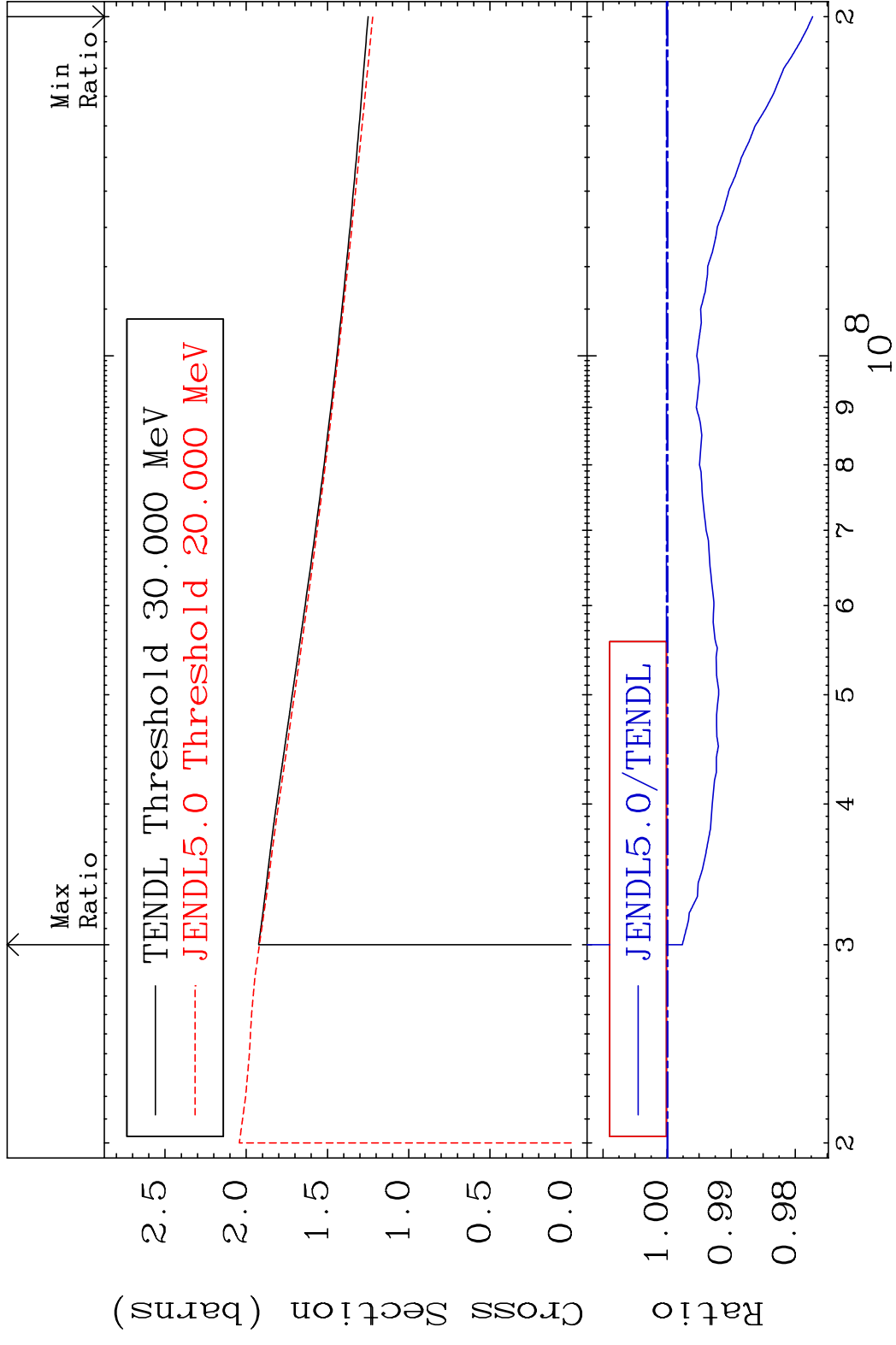
3 2 3 4 5 7 2 3 4 5 7 8 2  
 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>  
 57-La-139

MAT 5728

(n, remainder)

57-La-139

Cross Section -2.271 To -0.238%



4

Incident Energy (eV)

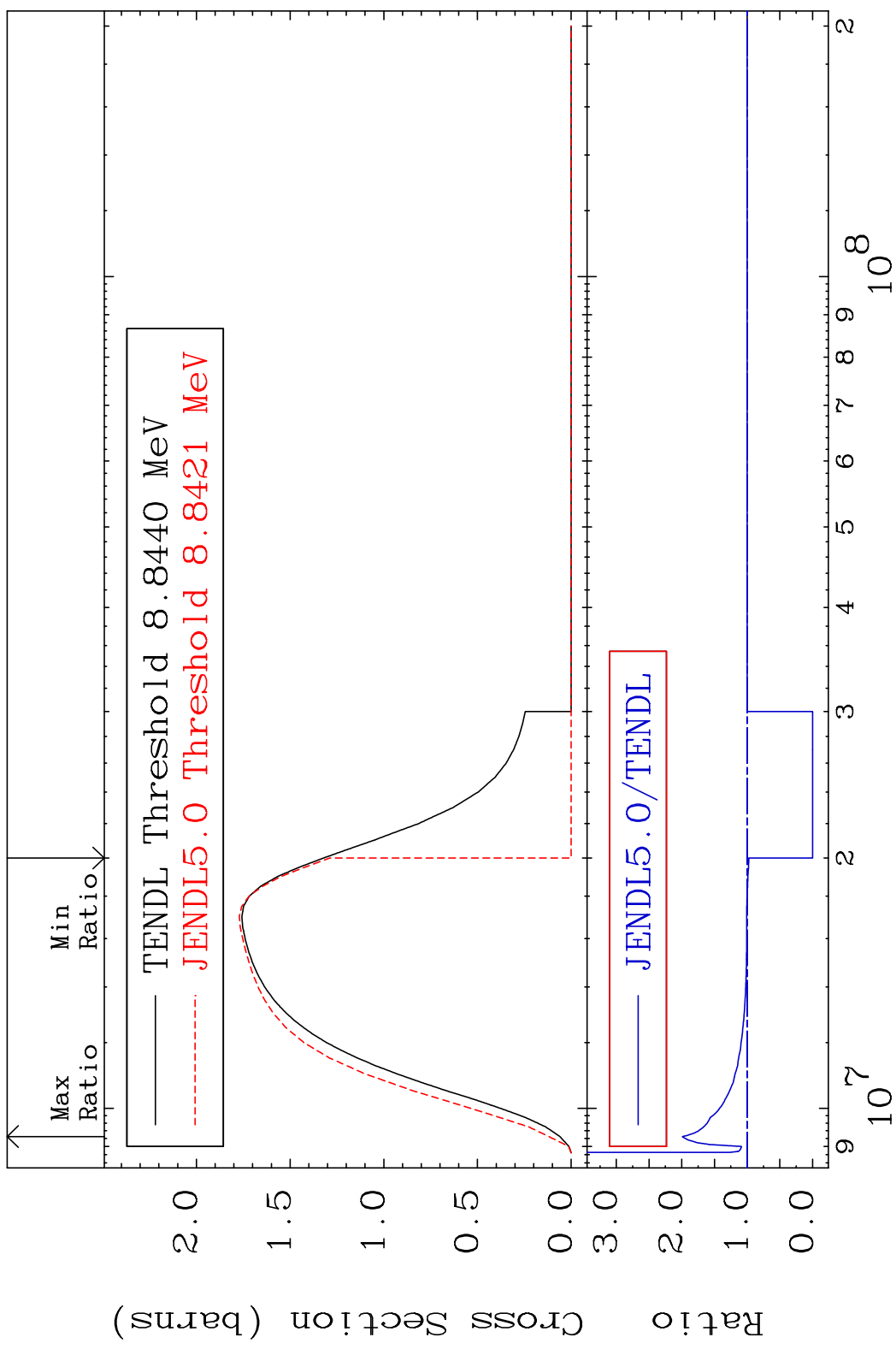
57-La-139

MAT 5728

(n,2n)

57-La-139

Cross Section -100.0 To 99.05 %



5

Incident Energy (eV)

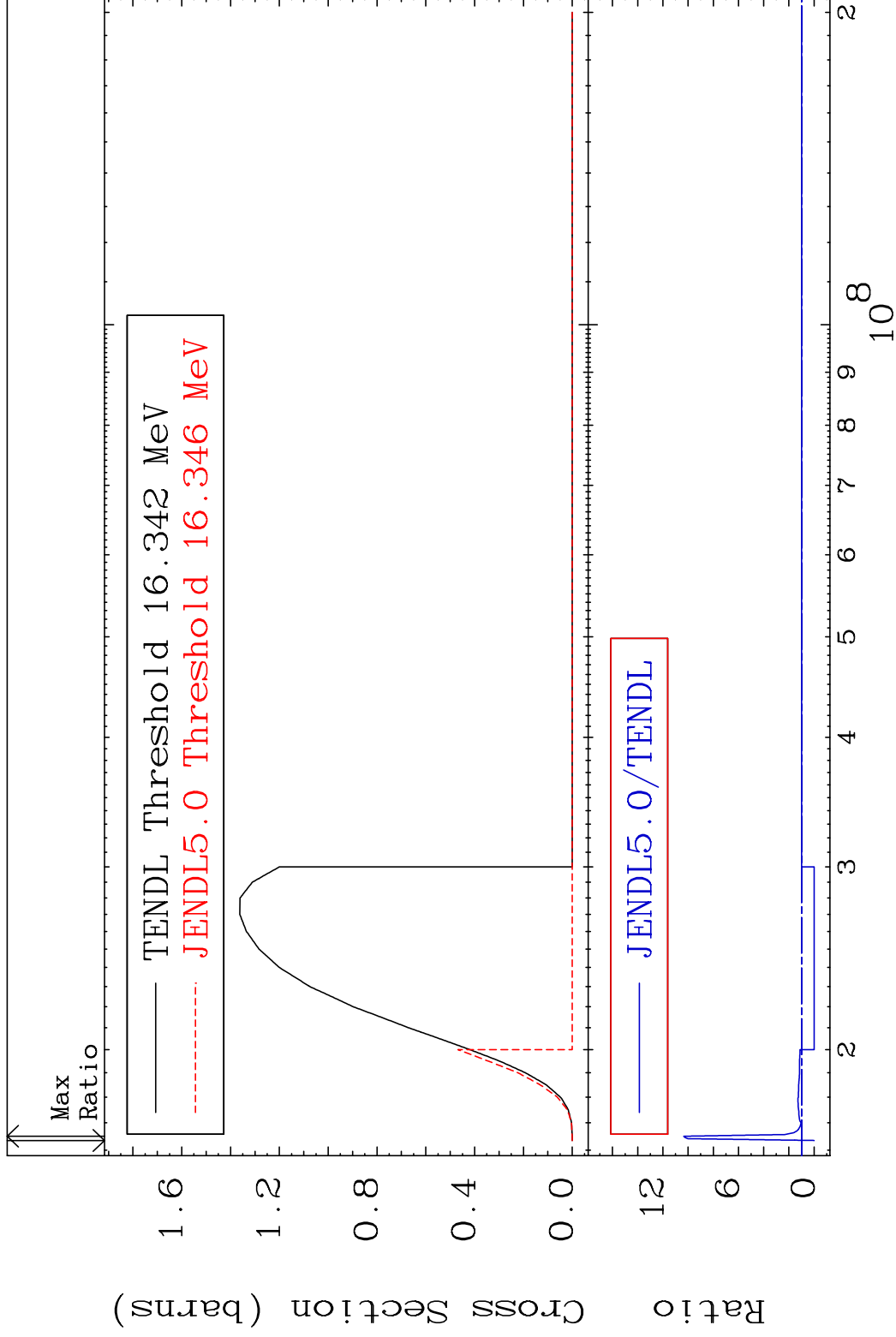
57-La-139

MAT 5728

(n,3n)

57-La-139

Cross Section -100.0 To 935.2 %



6

Incident Energy (eV)

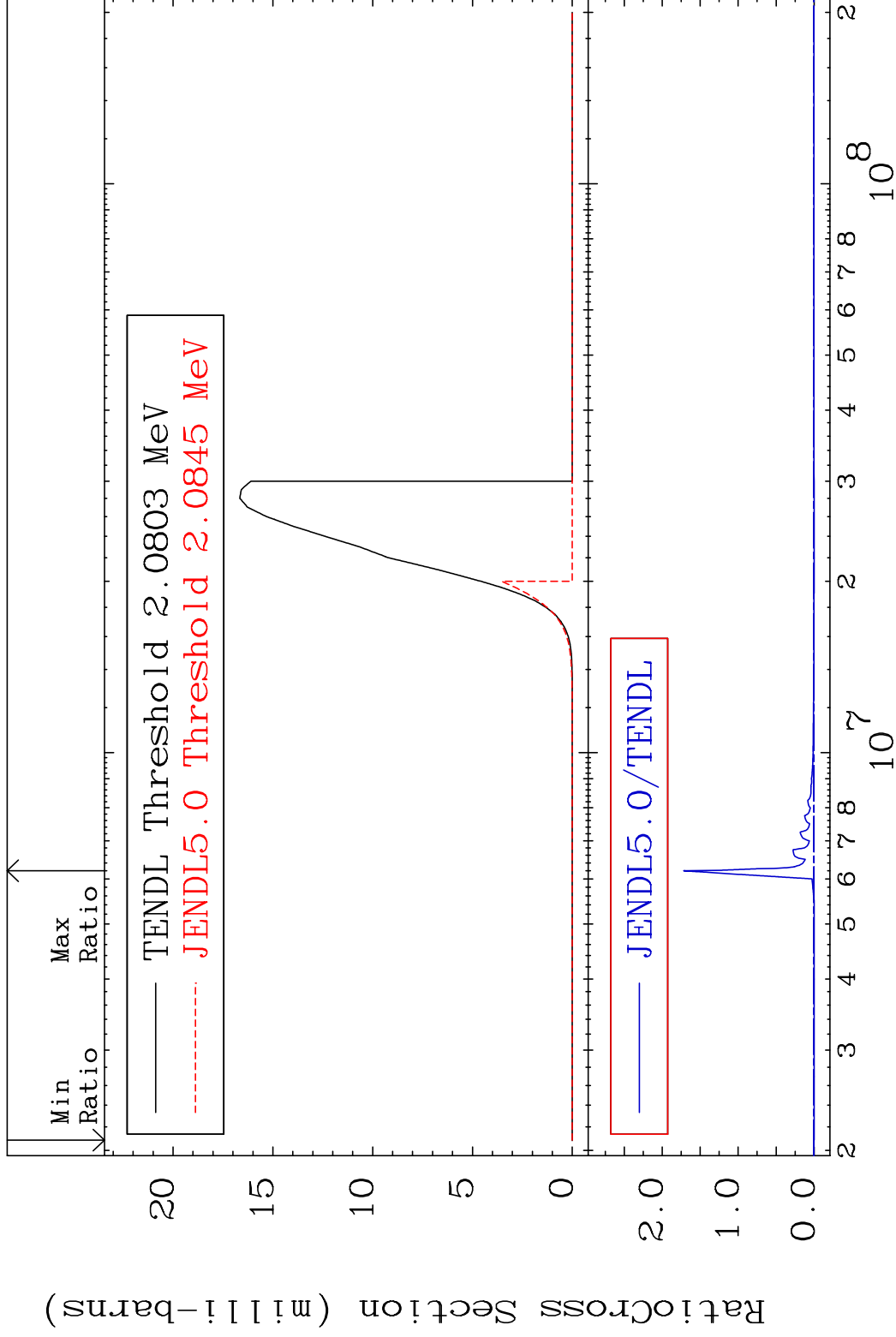
57-La-139

MAT 5728

(n, n')  $\alpha$

57-La-139

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

57-La-139

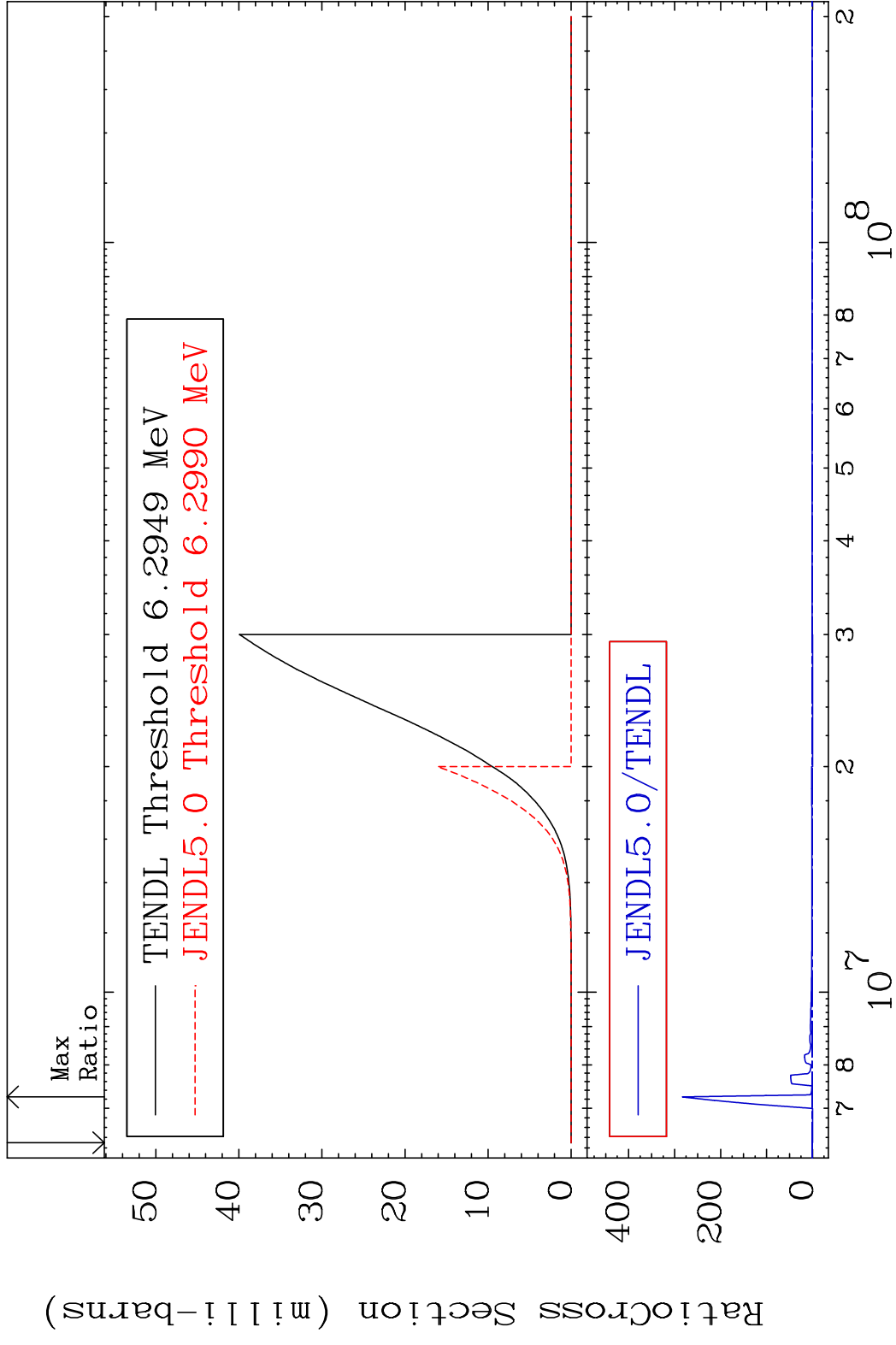


MAT 5728

(n, n') p

57-La-139

Cross Section -100.0 To 9999. %

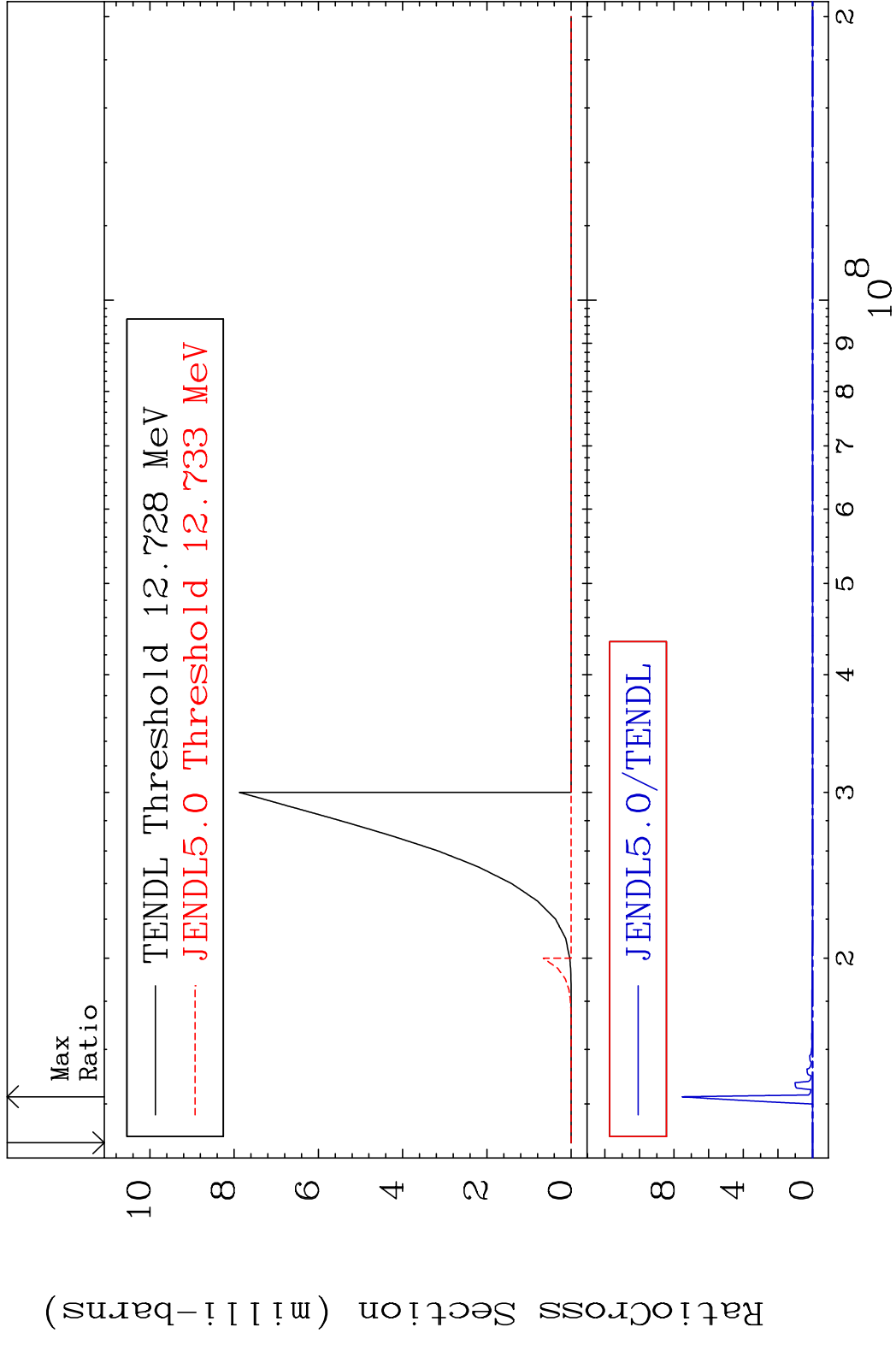


8

Incident Energy (eV)

57-La-139

MAT 5728 (n, n') d 57-La-139  
 Cross Section -100.0 To 9999. %

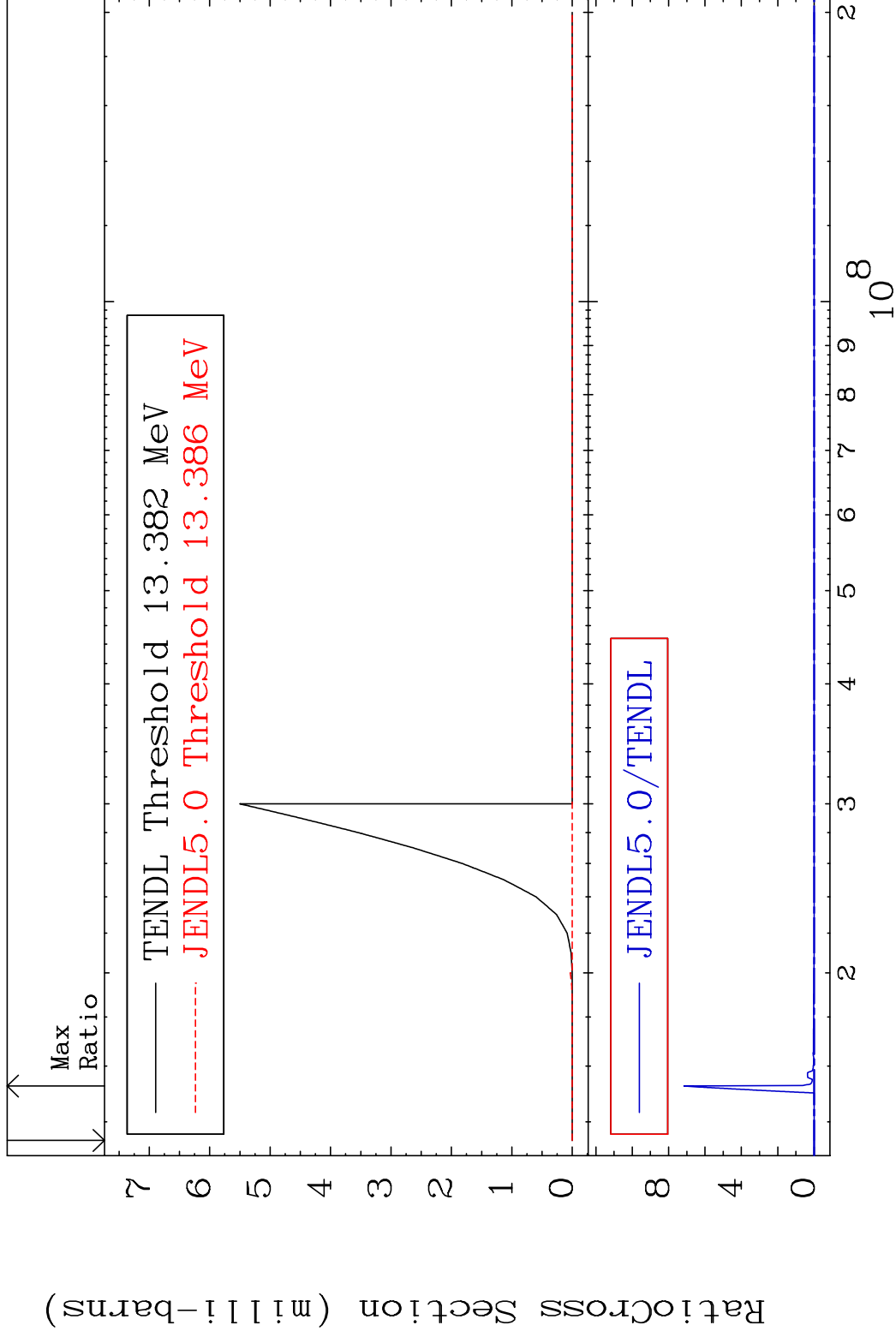


MAT 5728

(n, n') t

57-La-139

Cross Section -100.0 To 9999. %

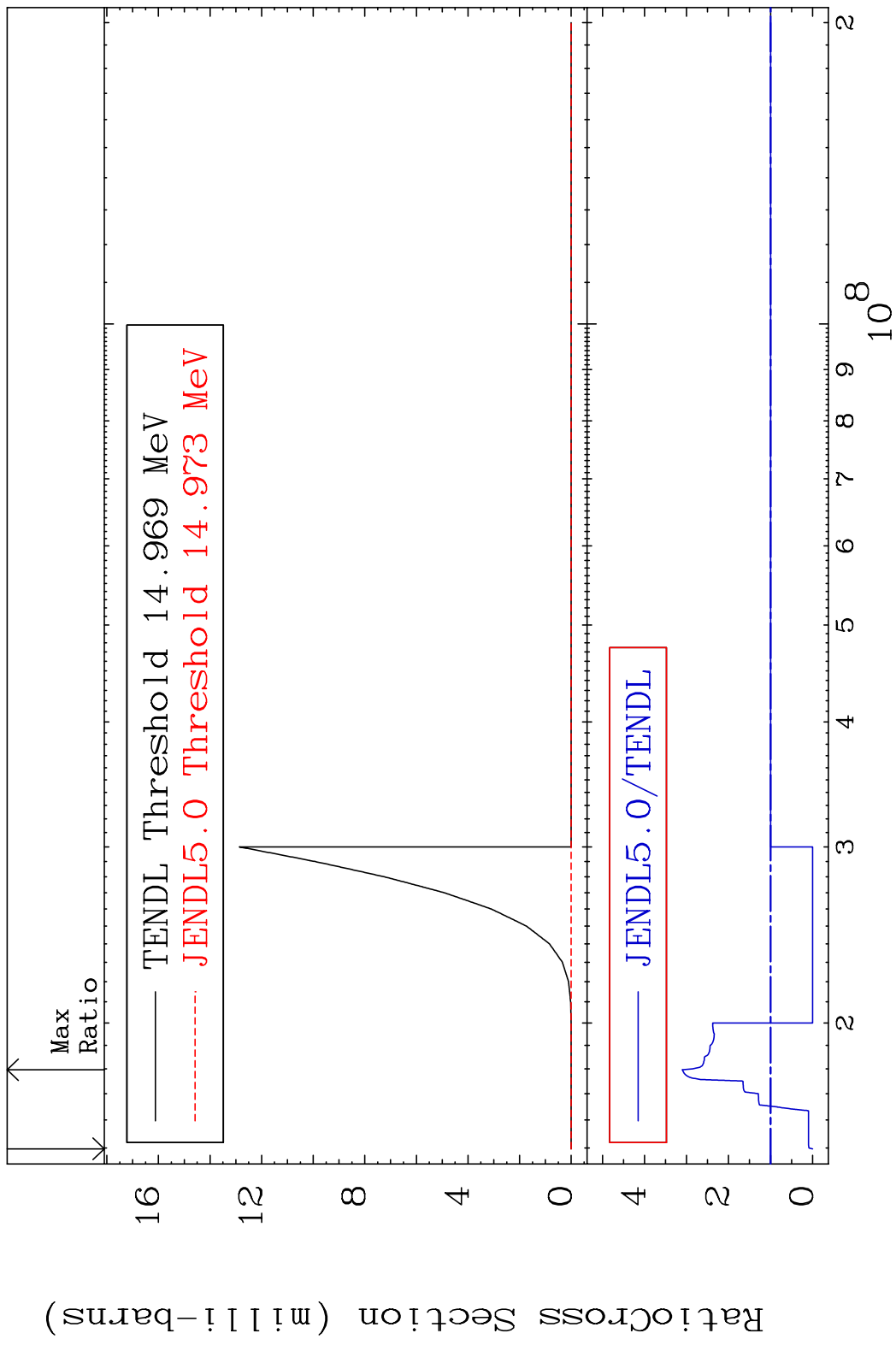


10

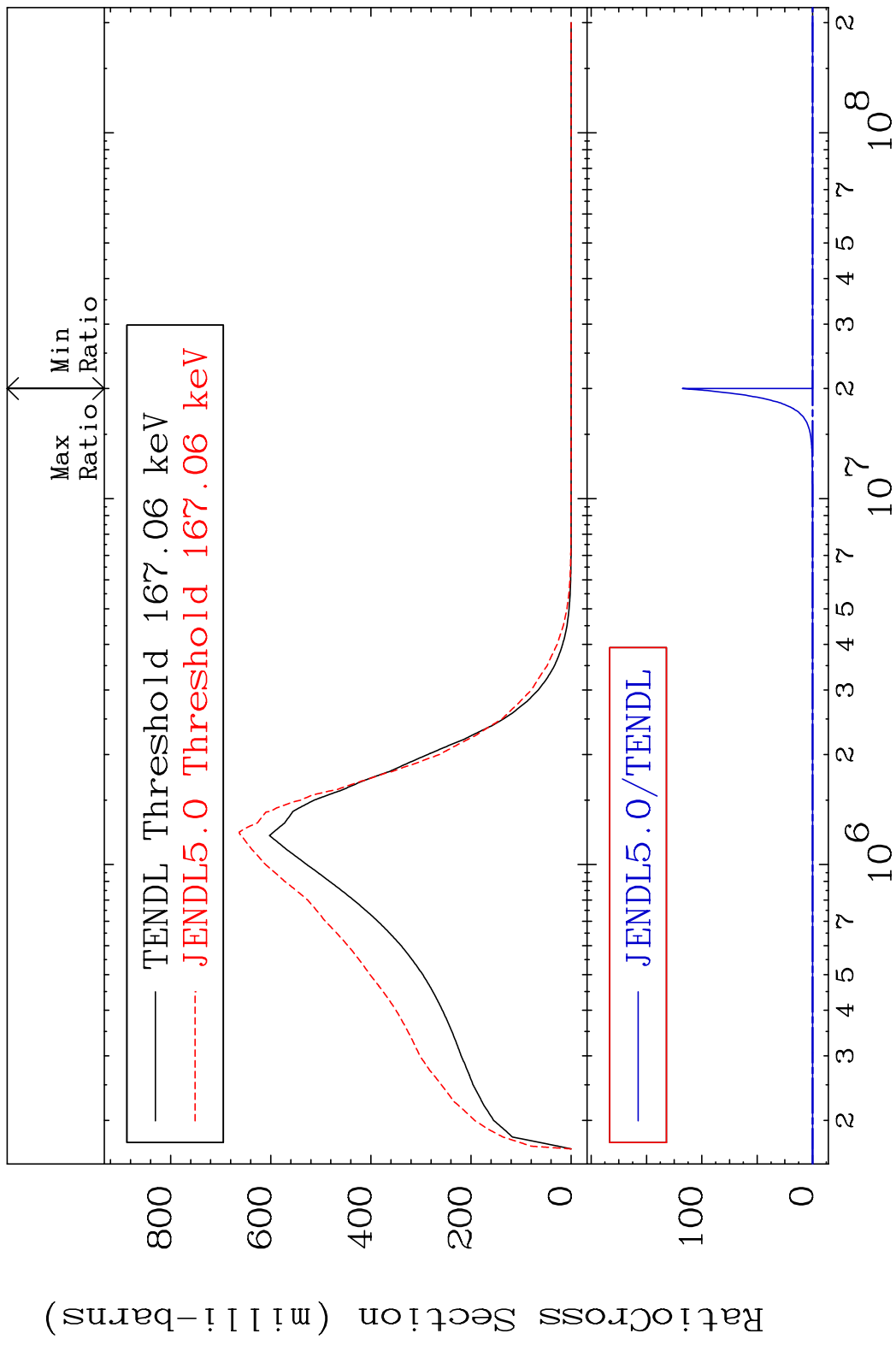
Incident Energy (eV)

57-La-139

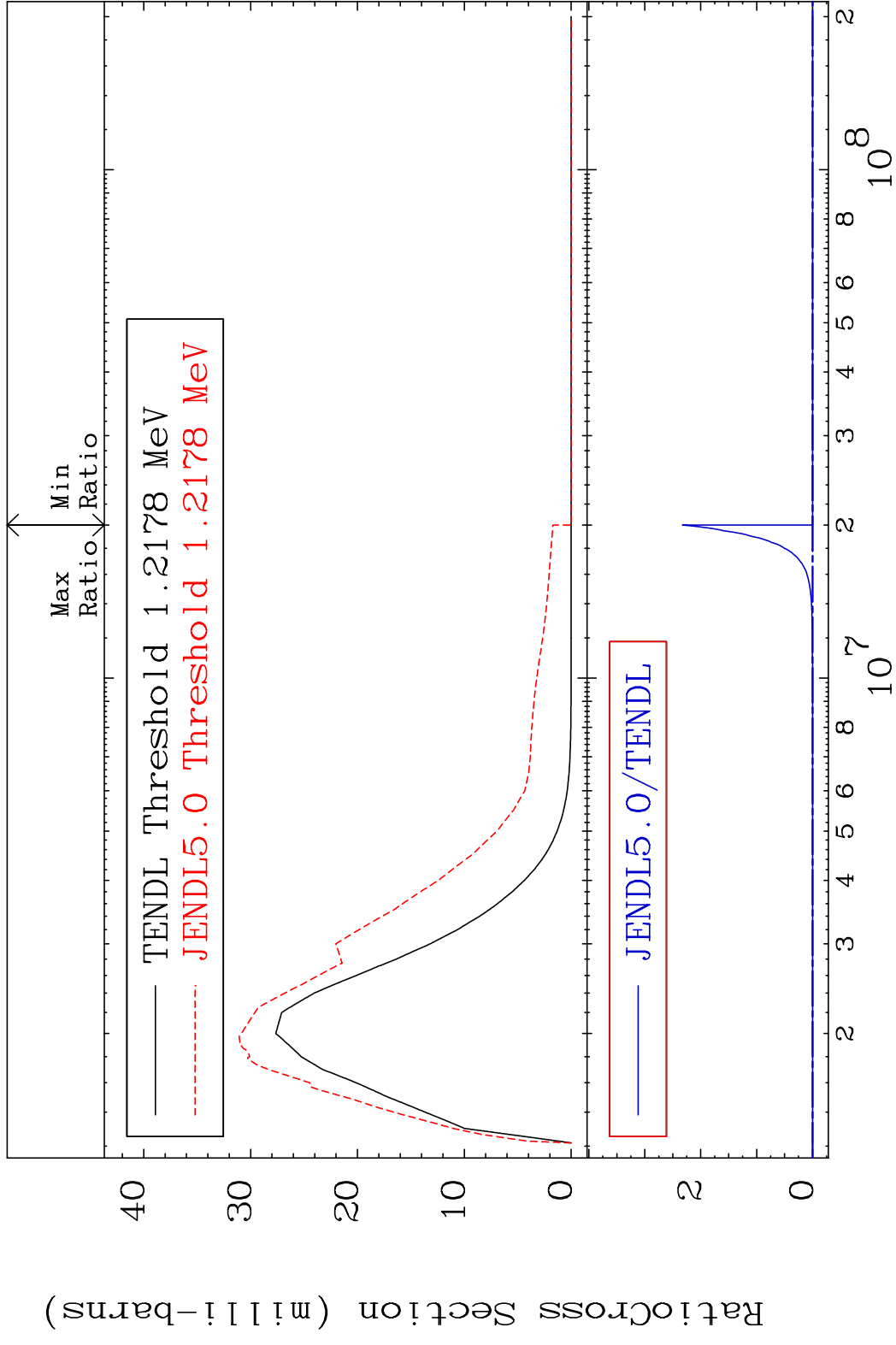
MAT 5728 (n,2n) p 57-La-139  
 Cross Section -100.0 To 209.9 %



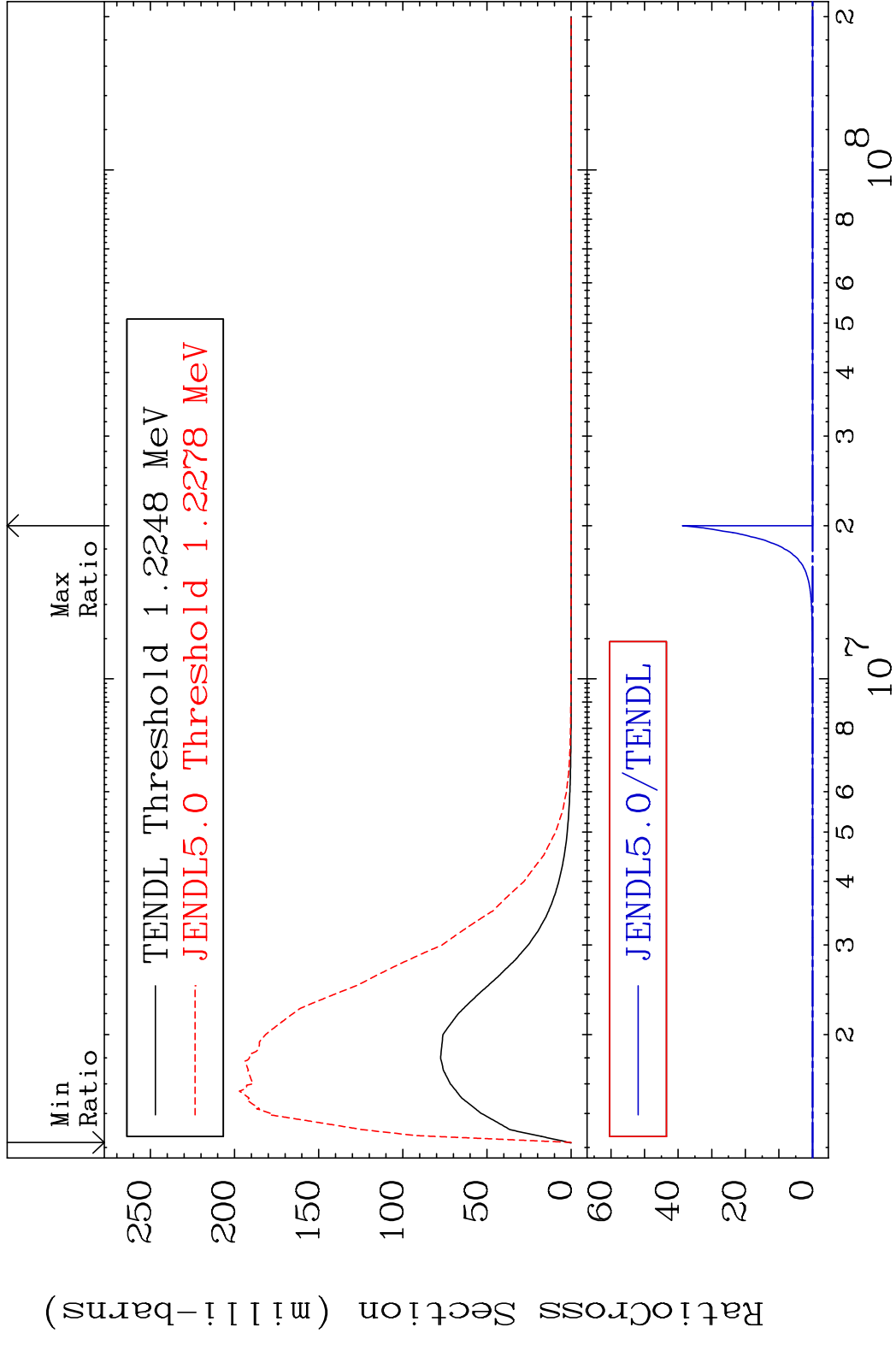
MAT 5728 MT= 51 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



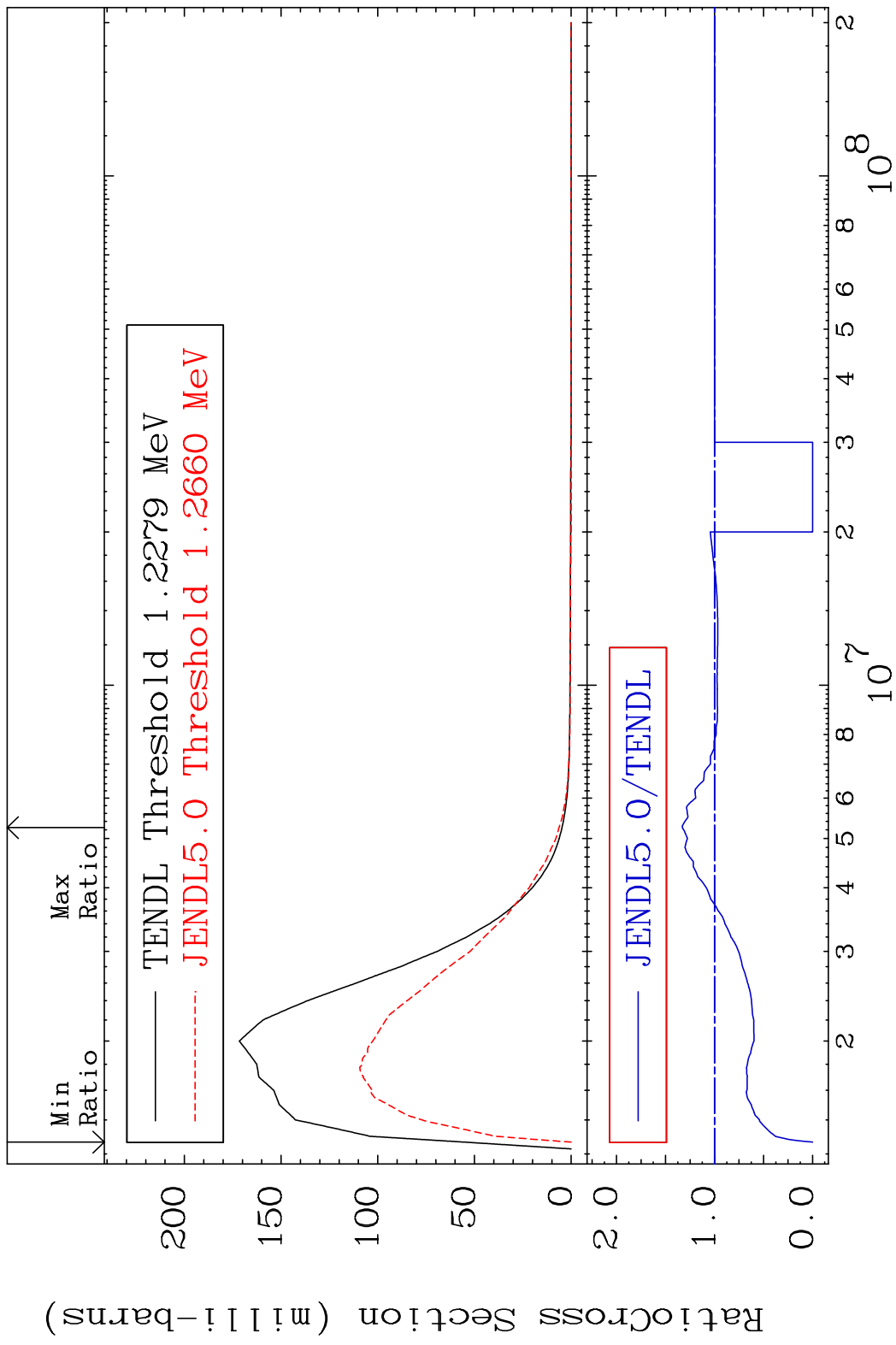
MAT 5728 MT= 52 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



MAT 5728 MT= 53 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %

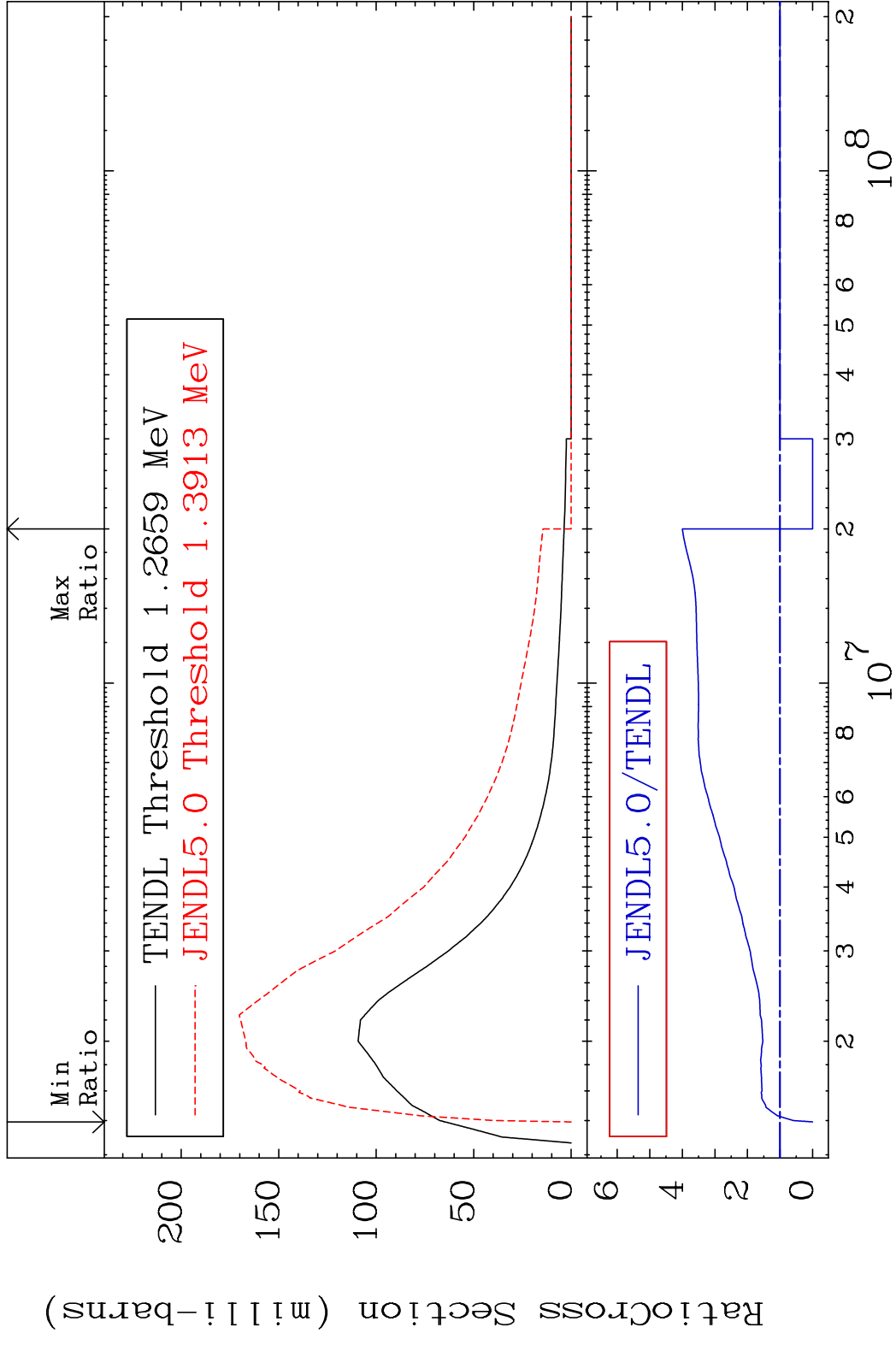


MAT 5728 MT= 54 (n,n') Level 57-La-139  
 Cross Section -100.0 To 32.86 %

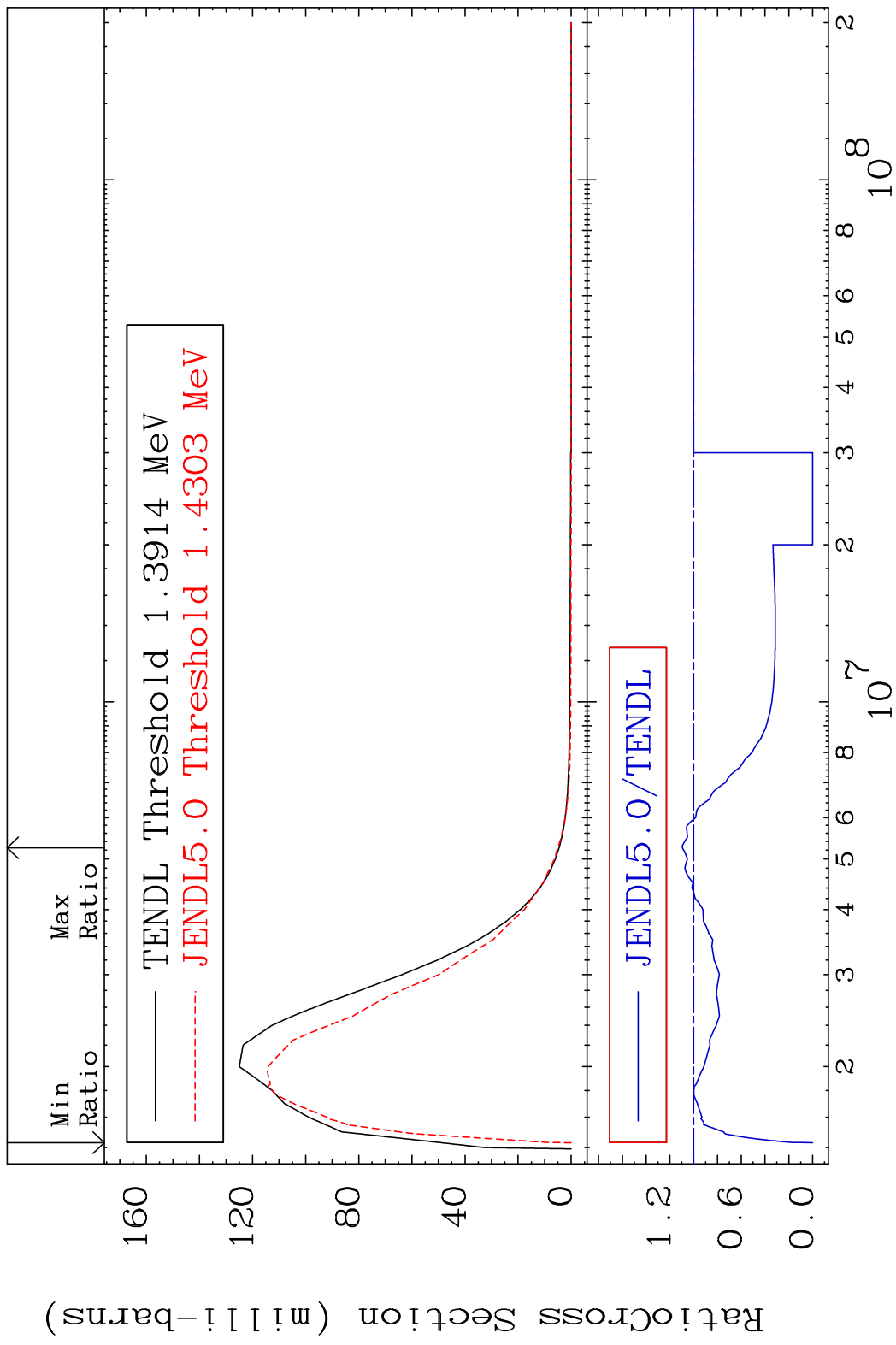




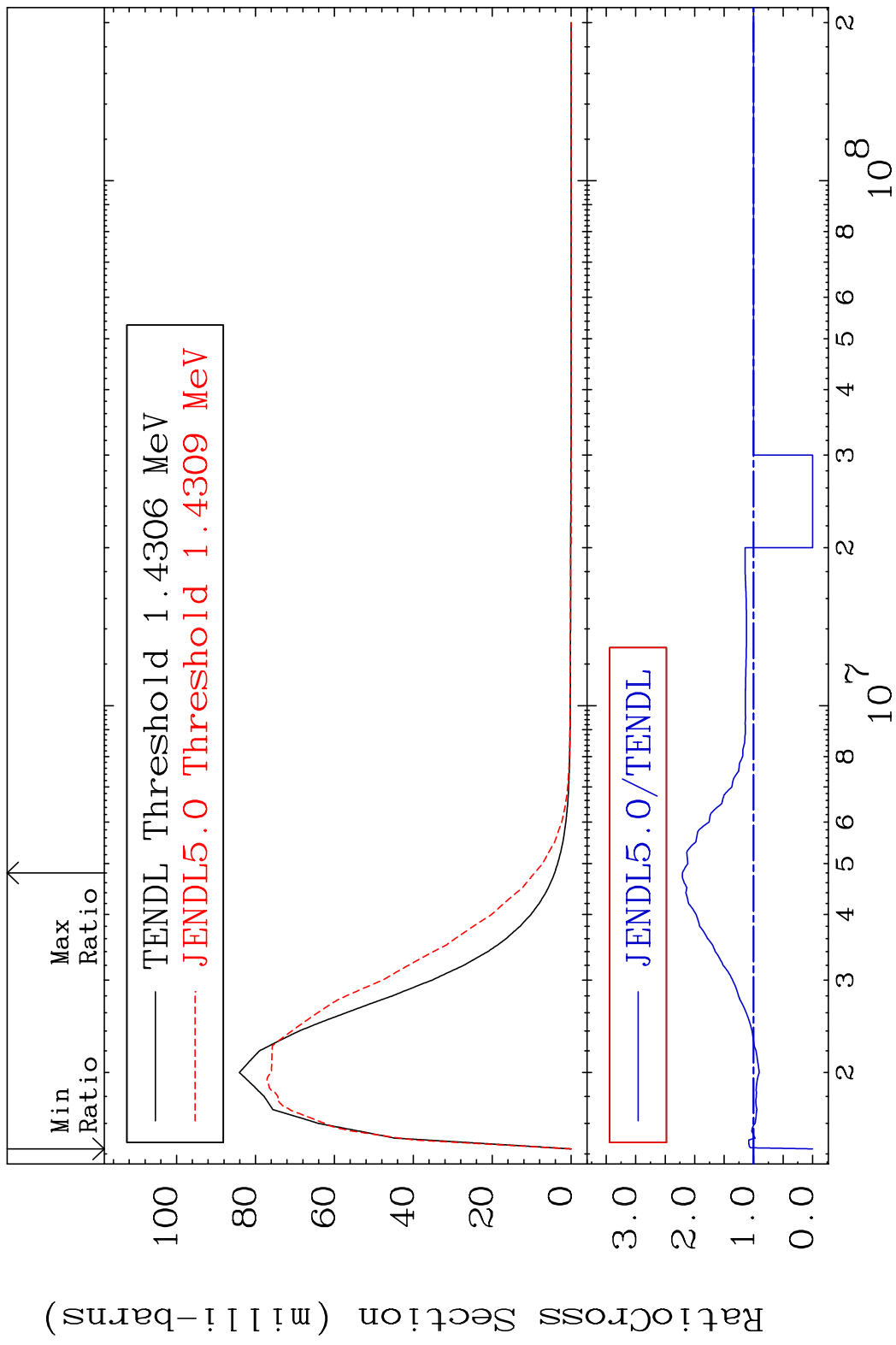
MAT 5728 MT= 55 (n, n') Level 57-La-139  
 Cross Section -100.0 To 299.9 %



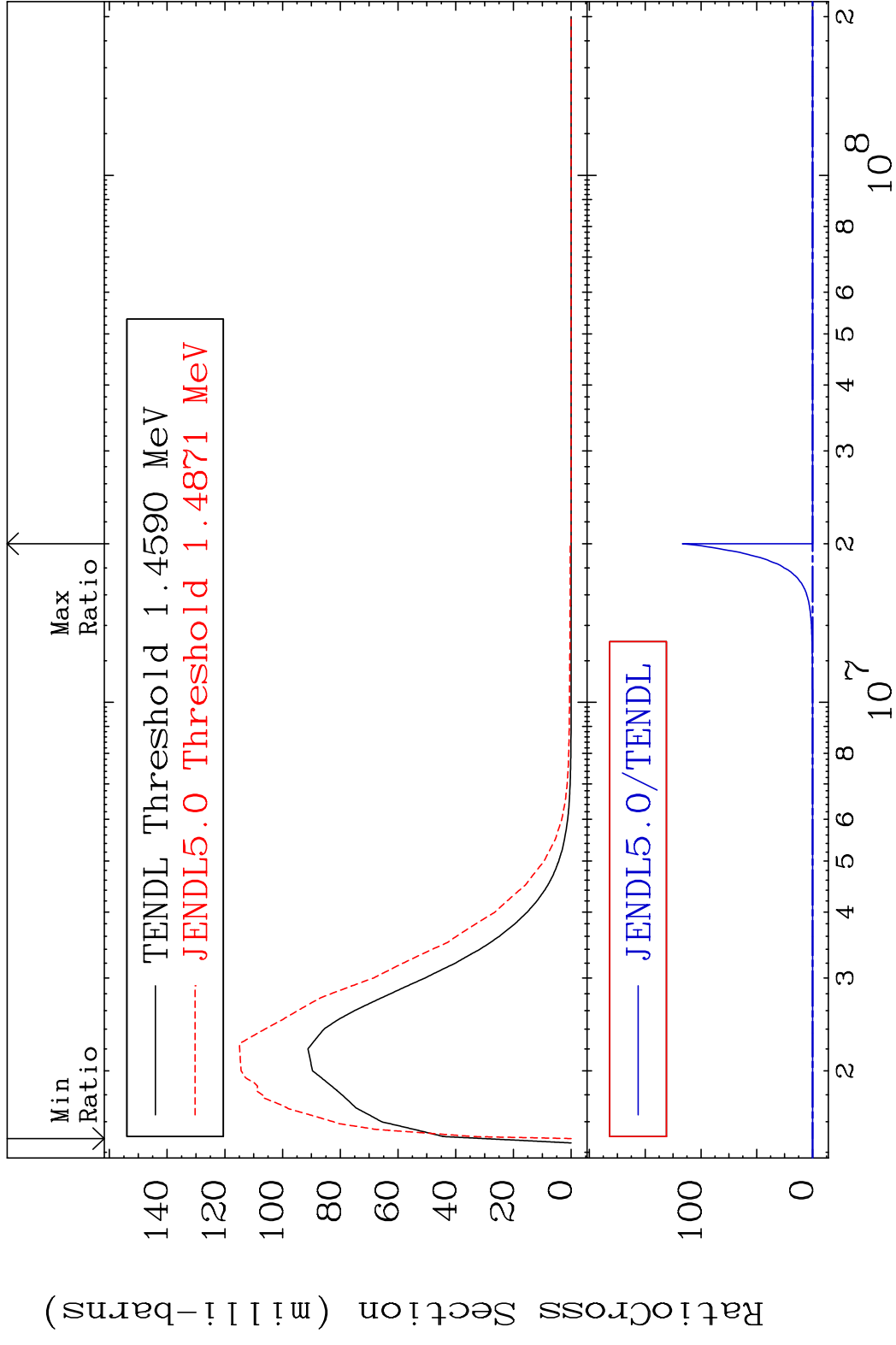
MAT 5728 MT= 56 (n,n') Level 57-La-139  
 Cross Section -100.0 To 9.505 %



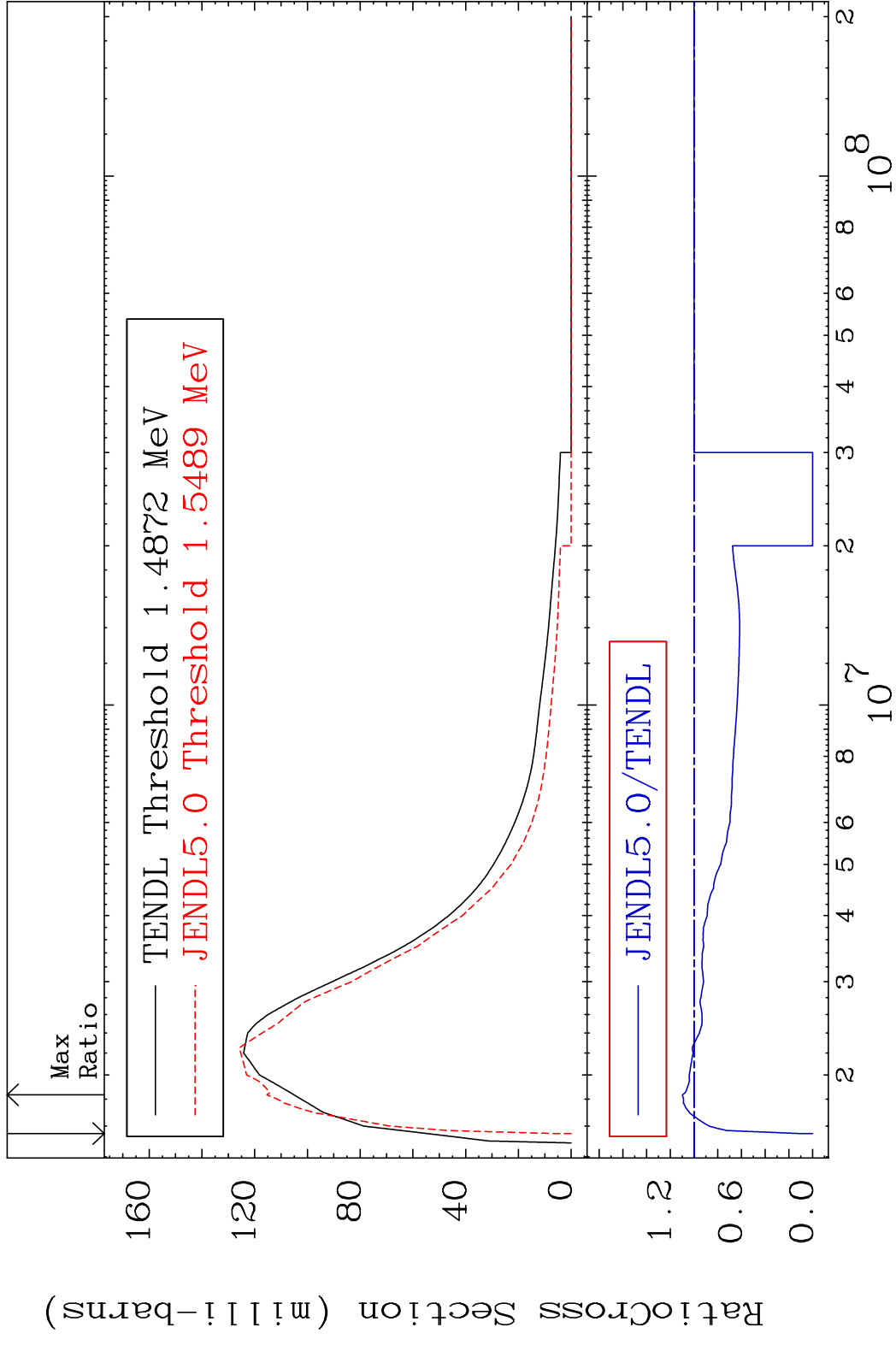
MAT 5728 MT= 57 (n,n') Level 57-La-139  
 Cross Section -100.0 To 120.9 %



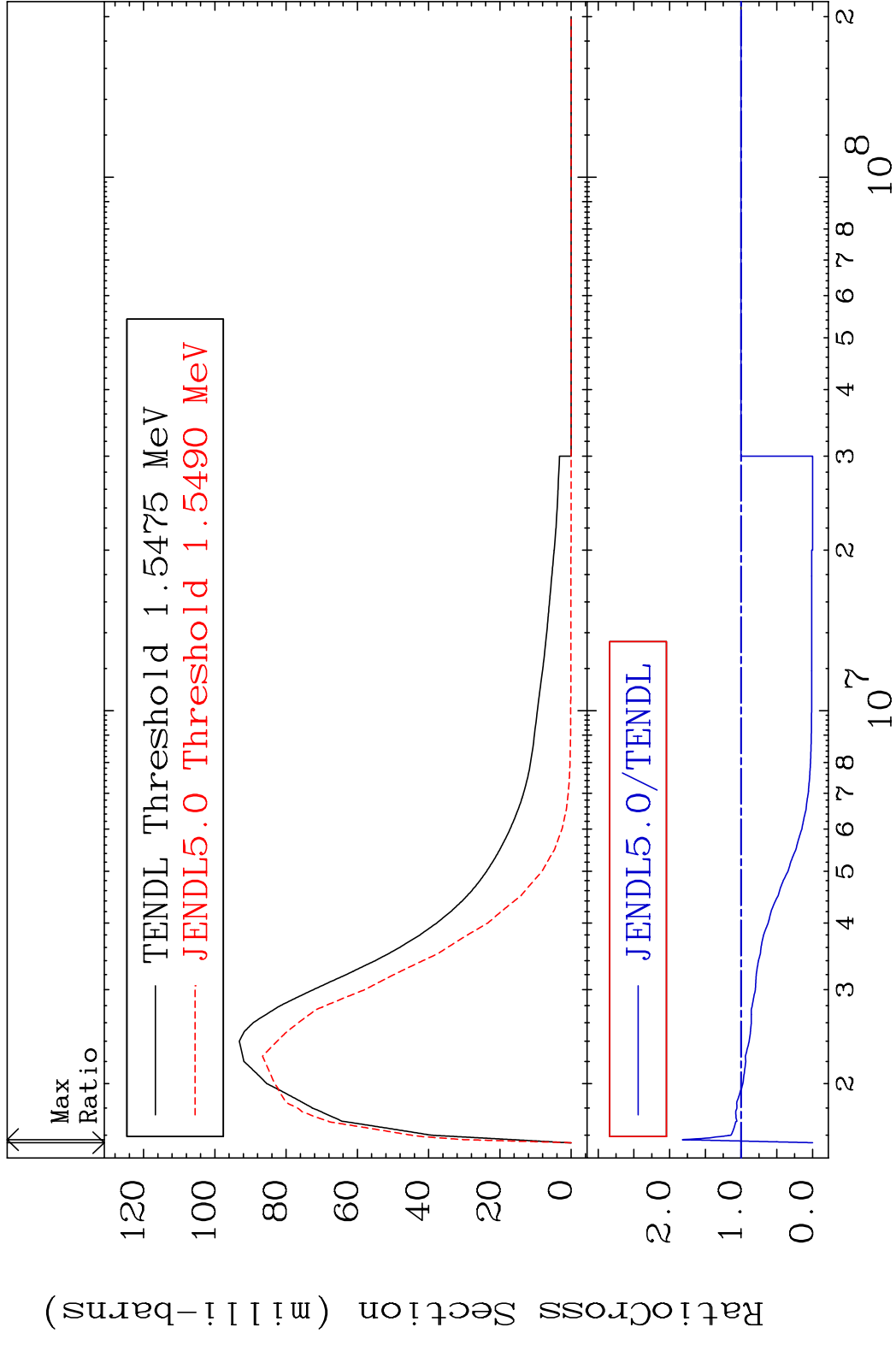
MAT 5728 MT= 58 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



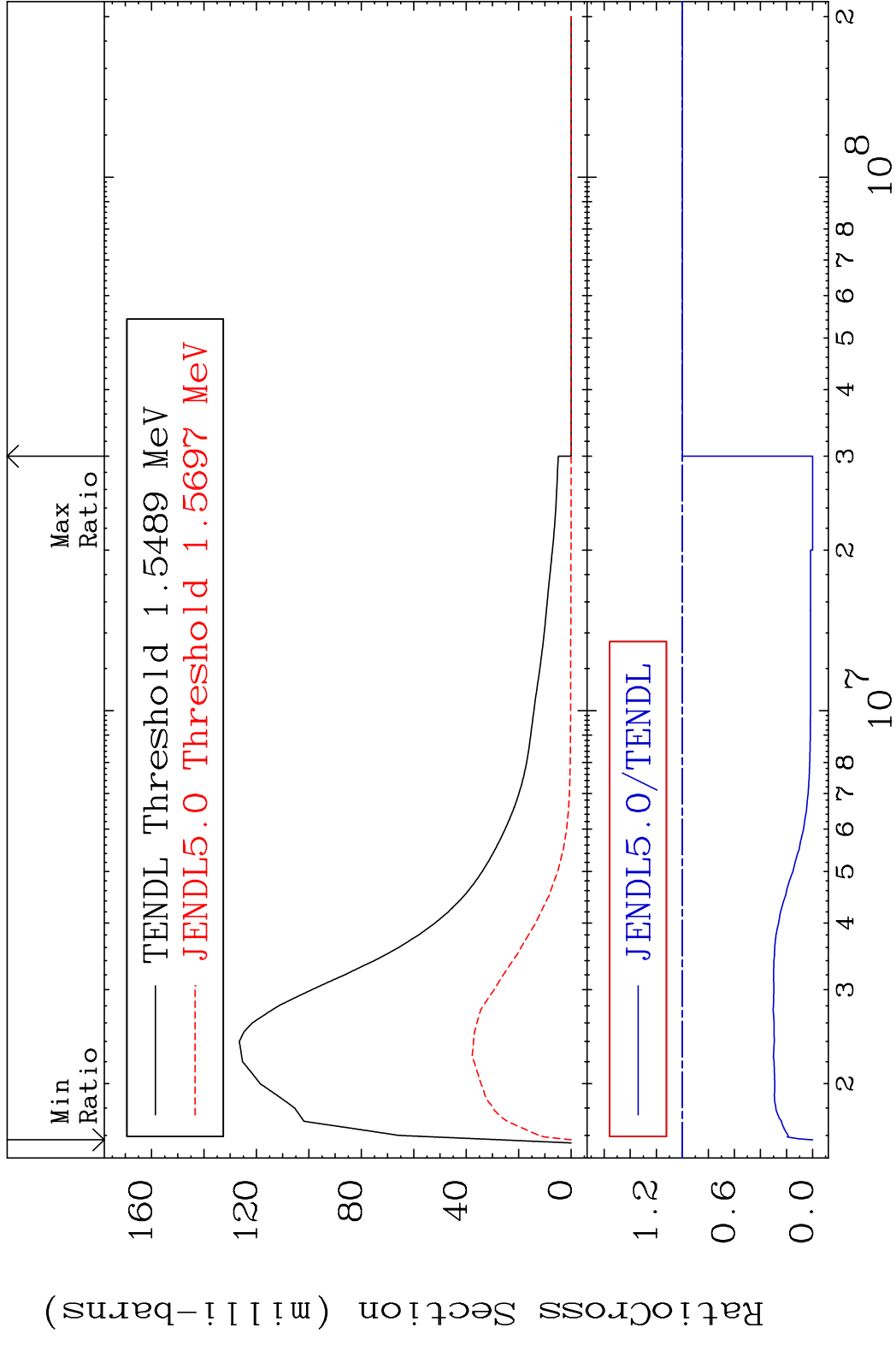
MAT 5728 MT= 59 (n,n') Level 57-La-139  
 Cross Section -100.0 To 9.851 %



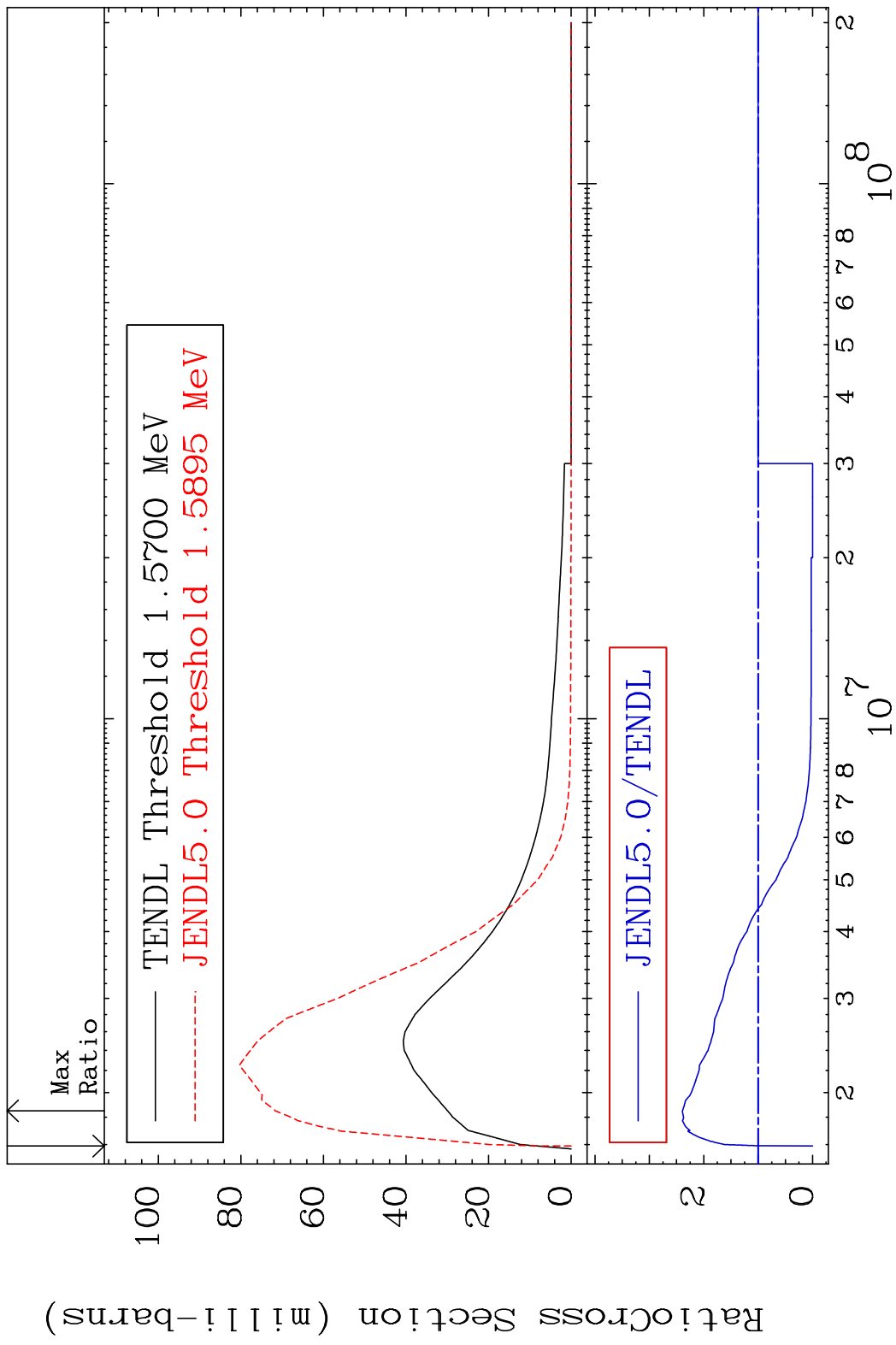
MAT 5728 MT= 60 (n, n') Level 57-La-139  
 Cross Section -100.0 To 82.21 %



MAT 5728 MT= 61 (n, n') Level 57-La-139  
 Cross Section -100.0 To 0.000 %

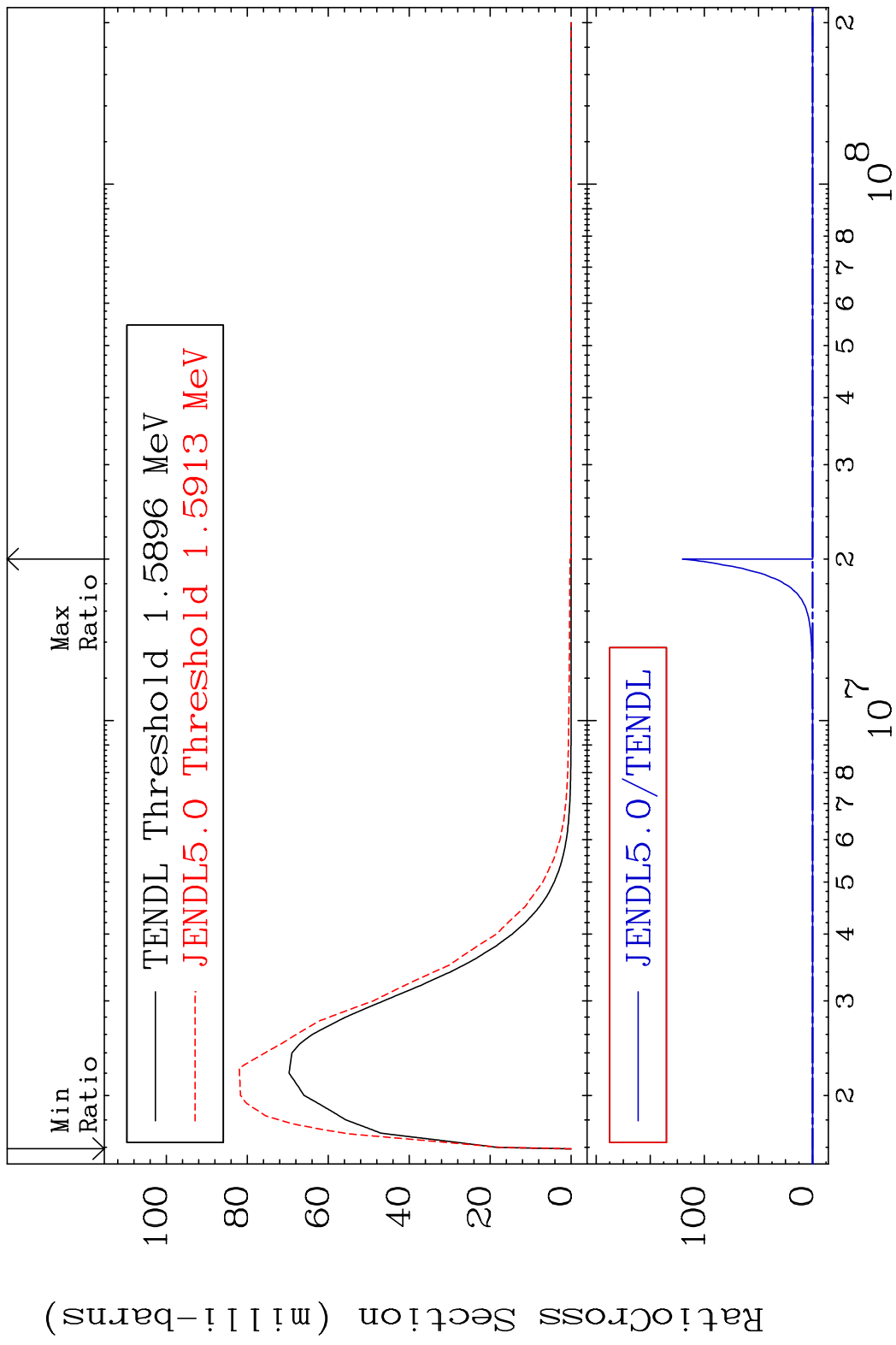


MAT 5728 MT= 62 (n, n') Level 57-La-139  
 Cross Section -100.0 To 139.3 %

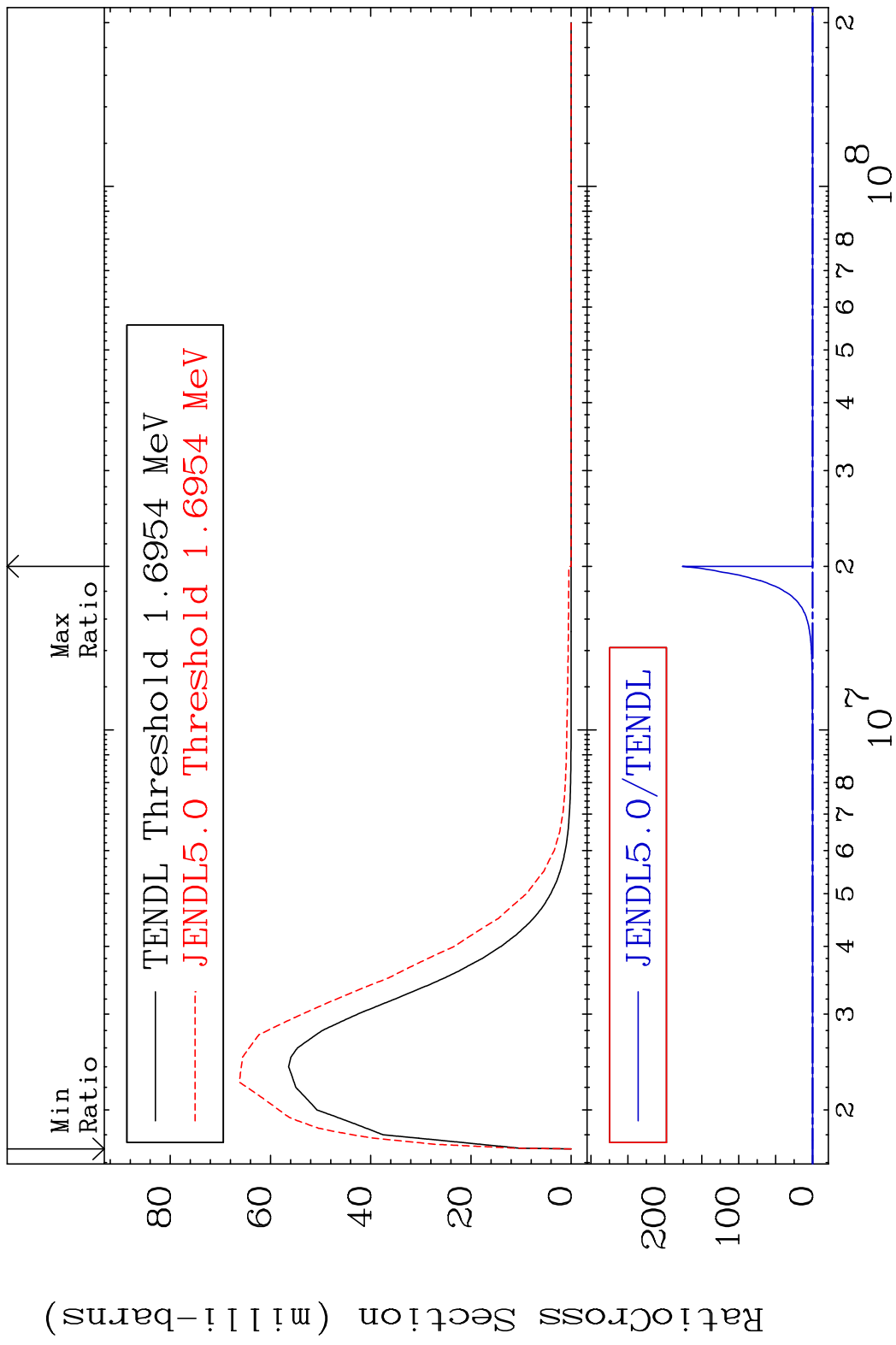




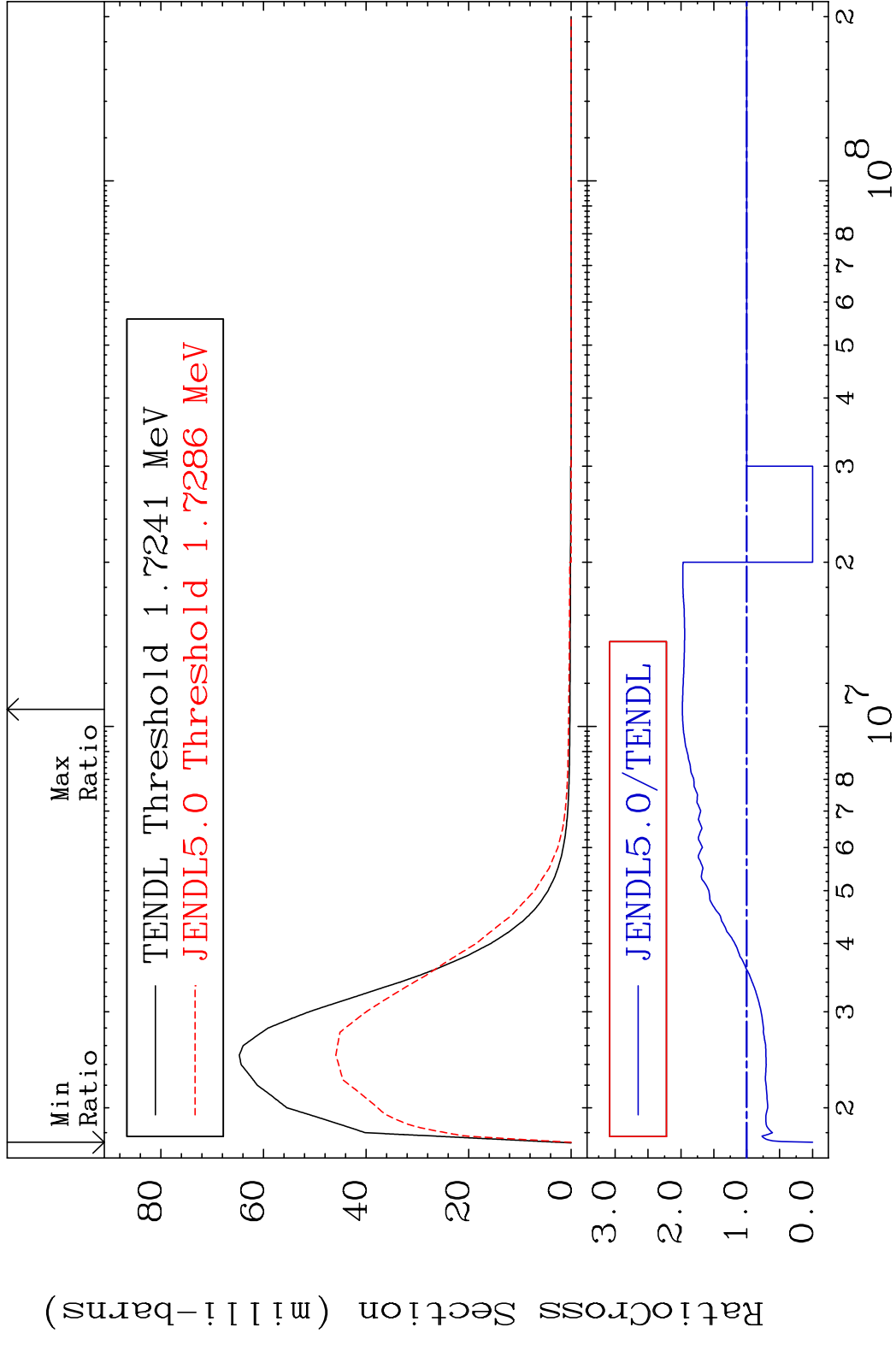
MAT 5728 MT= 63 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



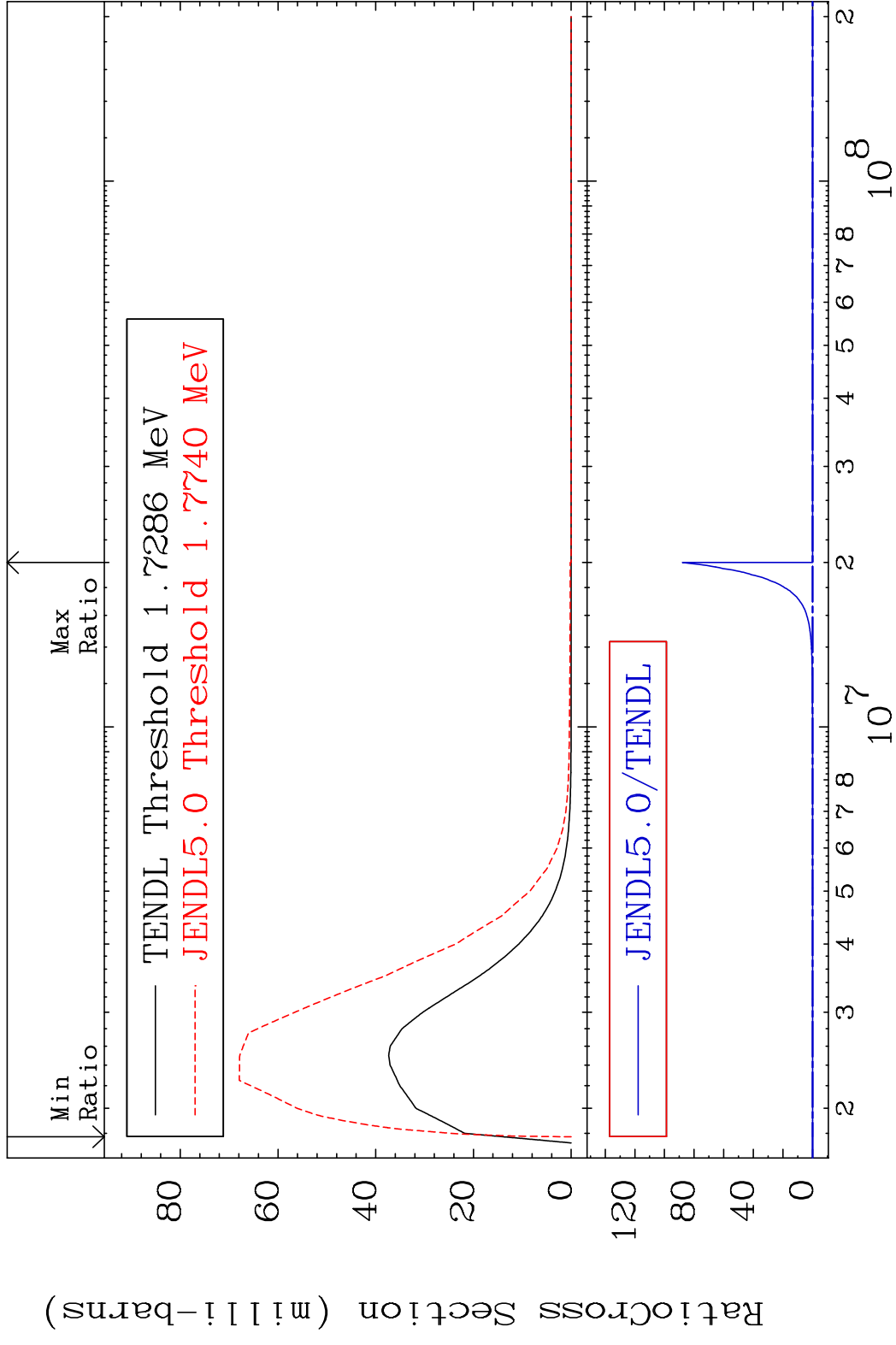
MAT 5728 MT= 64 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



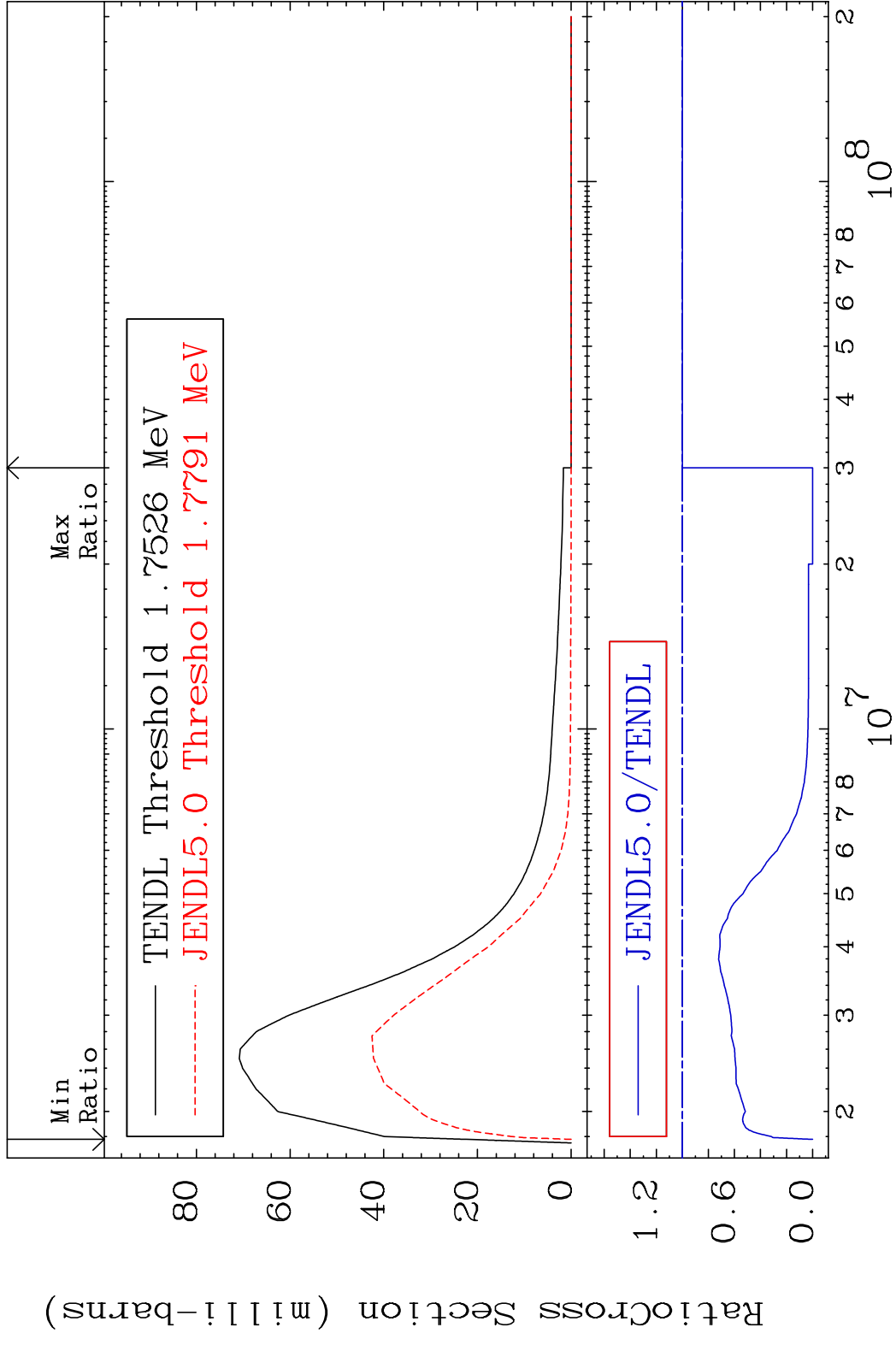
MAT 5728 MT= 65 (n,n') Level 57-La-139  
 Cross Section -100.0 To 97.85 %



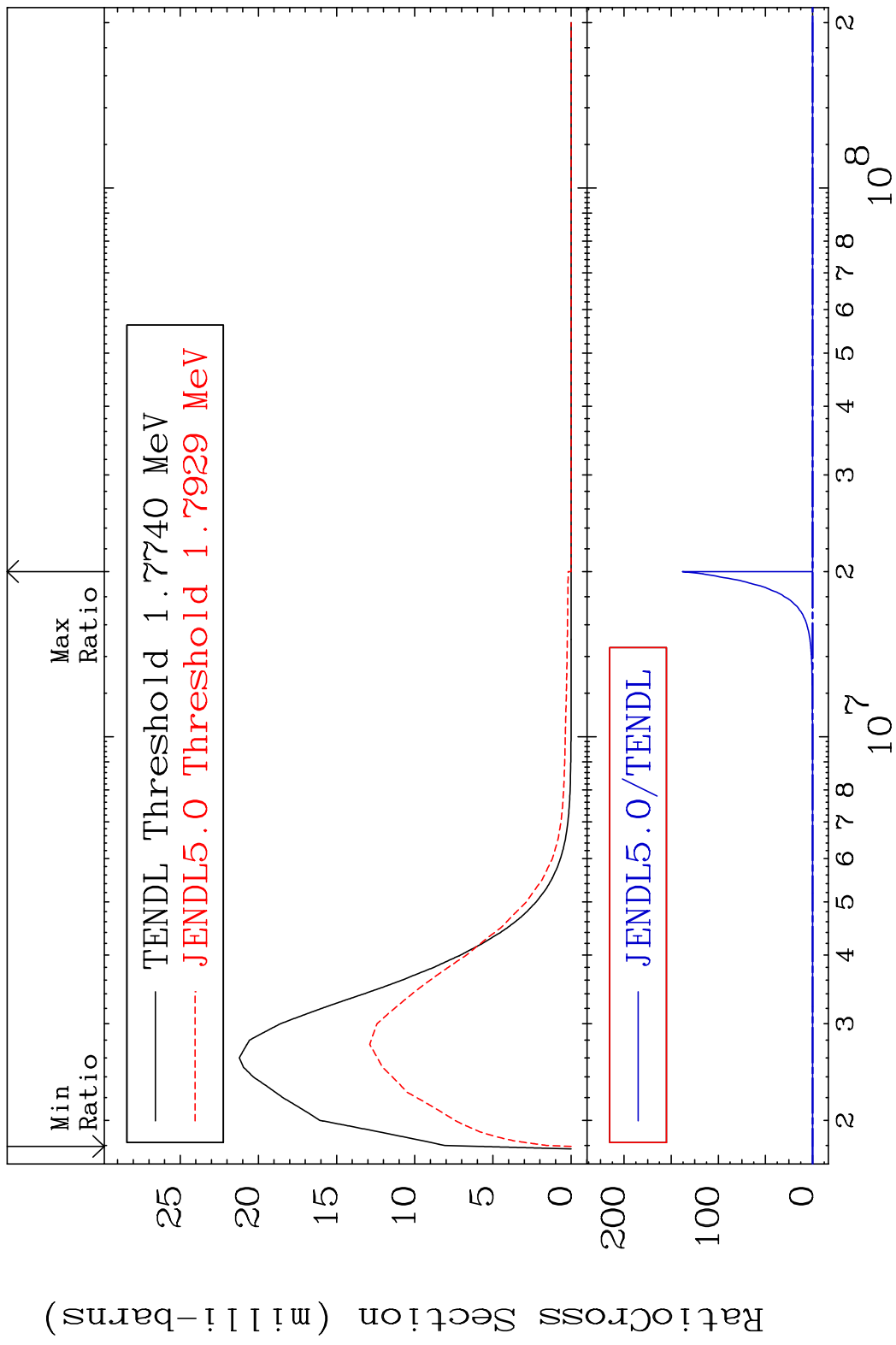
MAT 5728 MT= 66 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



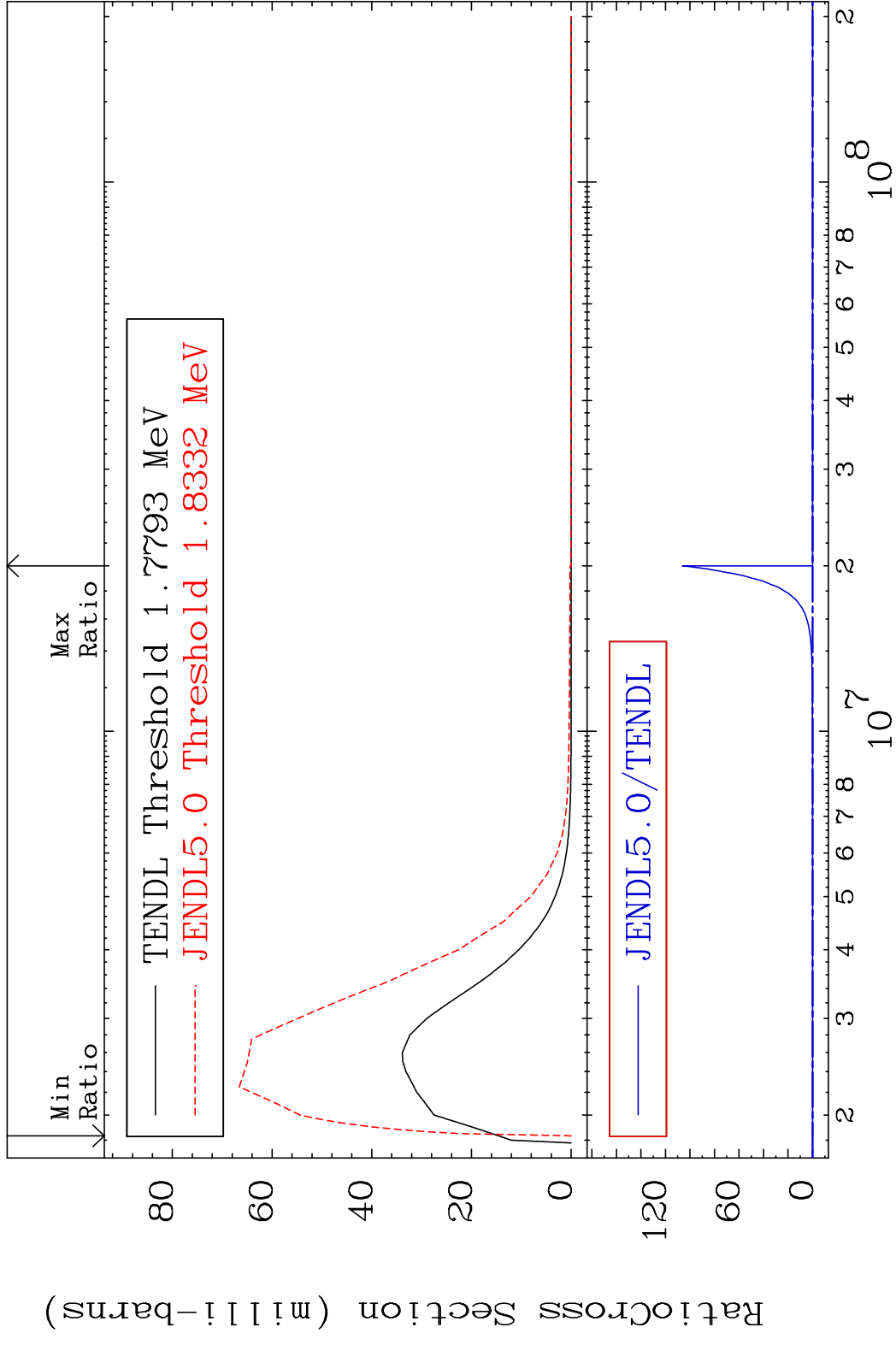
MAT 5728 MT= 67 (n, n') Level 57-La-139  
 Cross Section -100.0 To 0.000 %



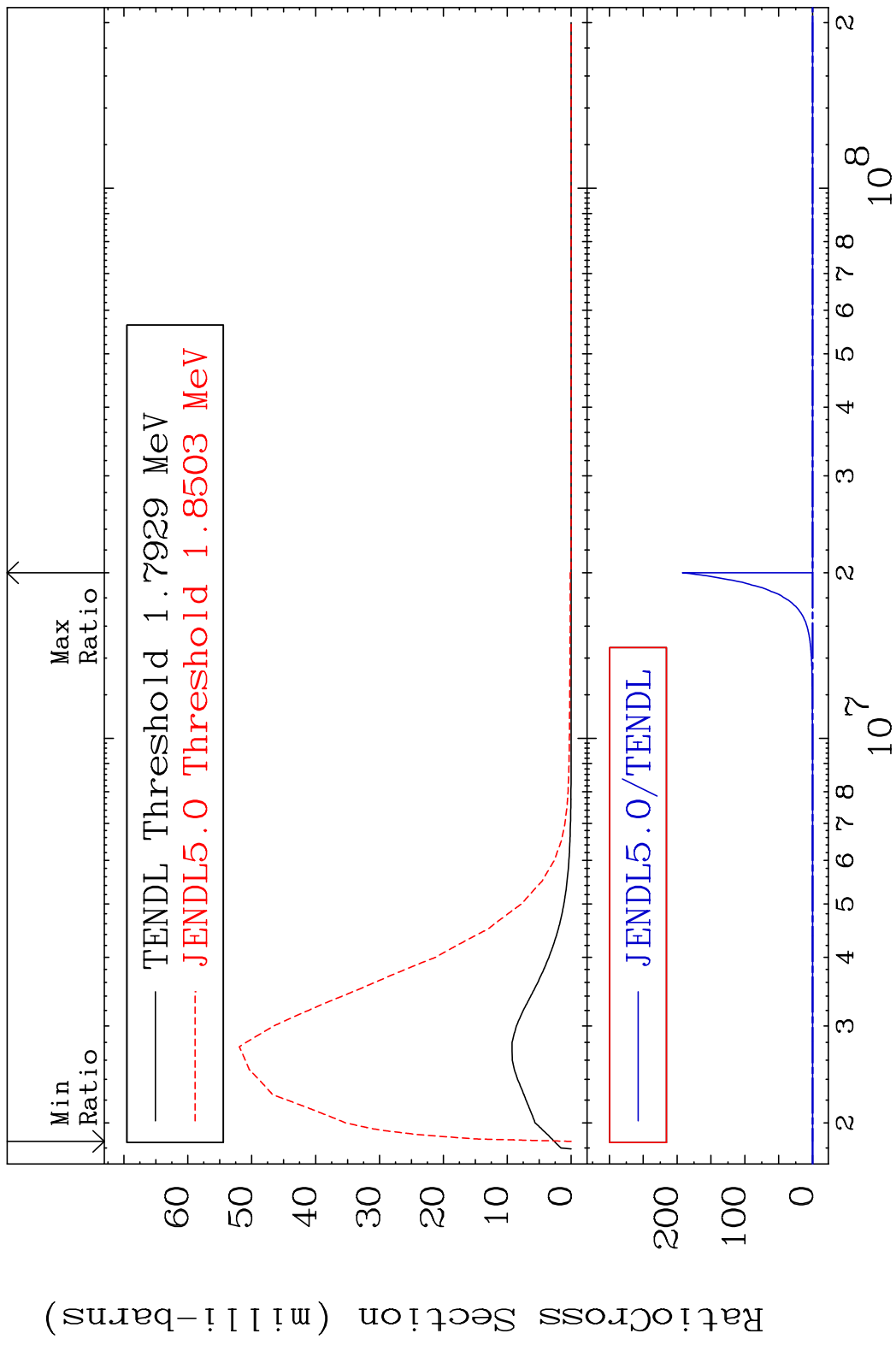
MAT 5728 MT= 68 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



MAT 5728 MT= 69 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %

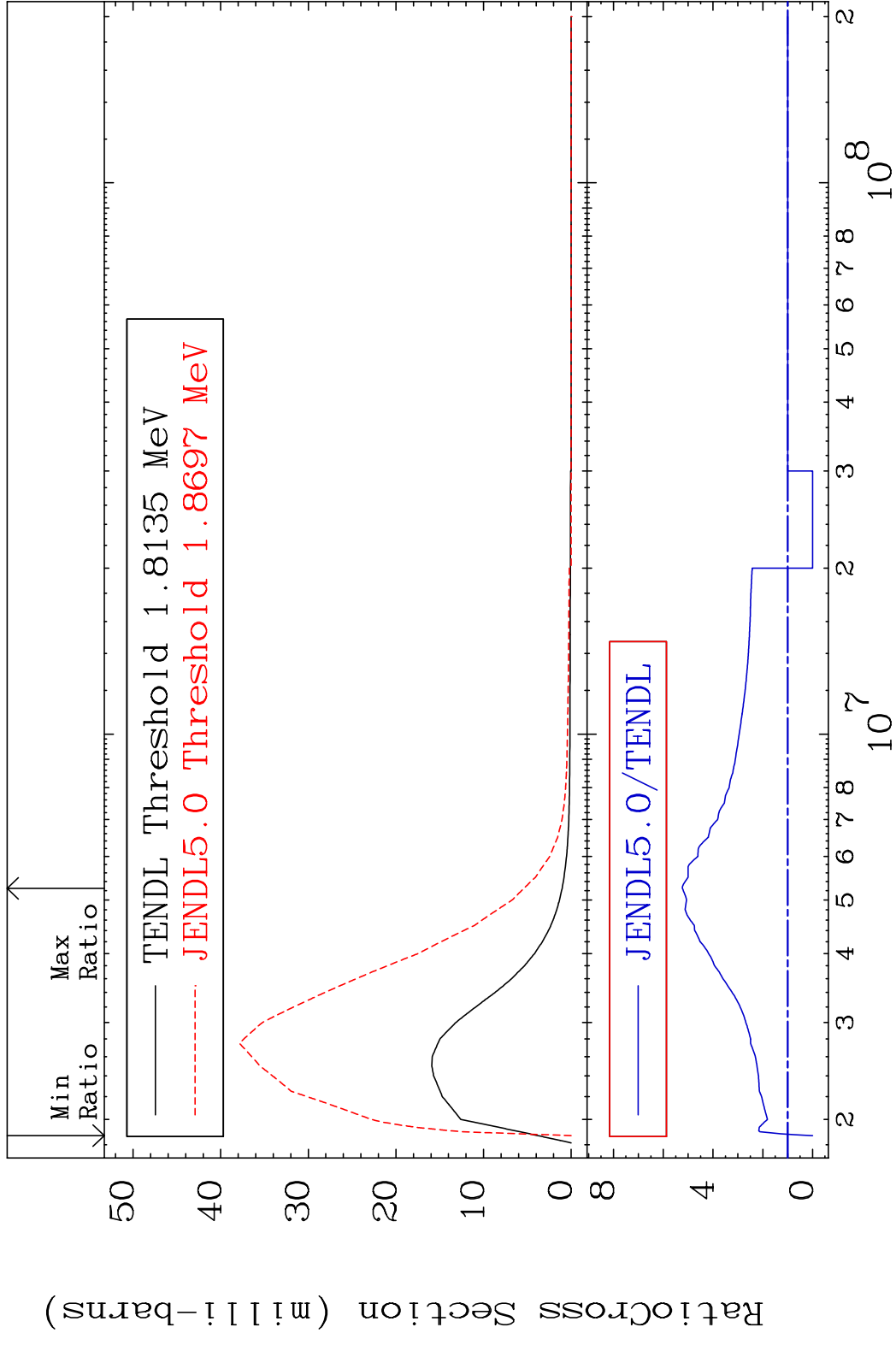


MAT 5728 MT= 70 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %

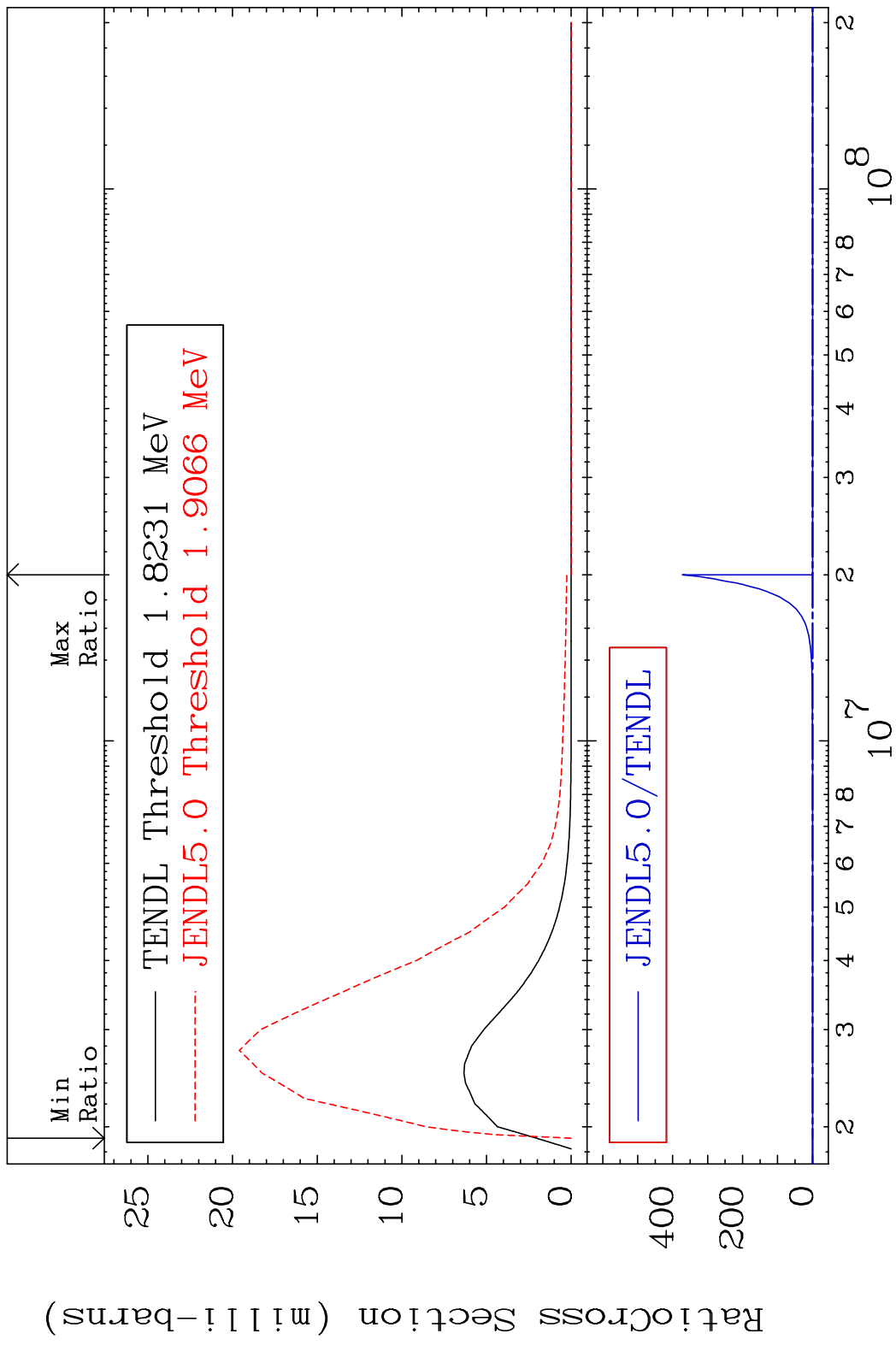




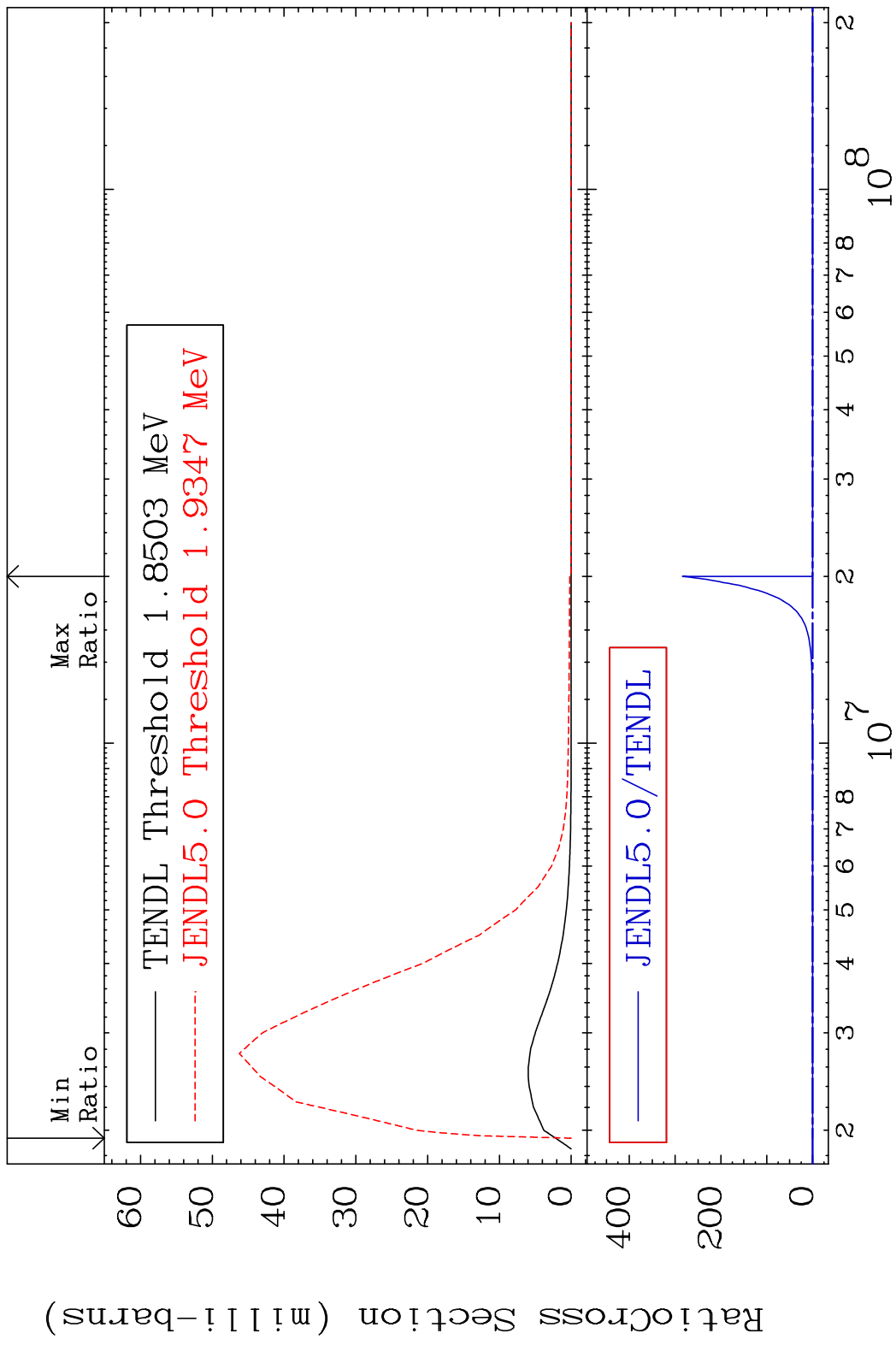
MAT 5728 MT= 71 (n,n') Level 57-La-139  
 Cross Section -100.0 To 423.3 %



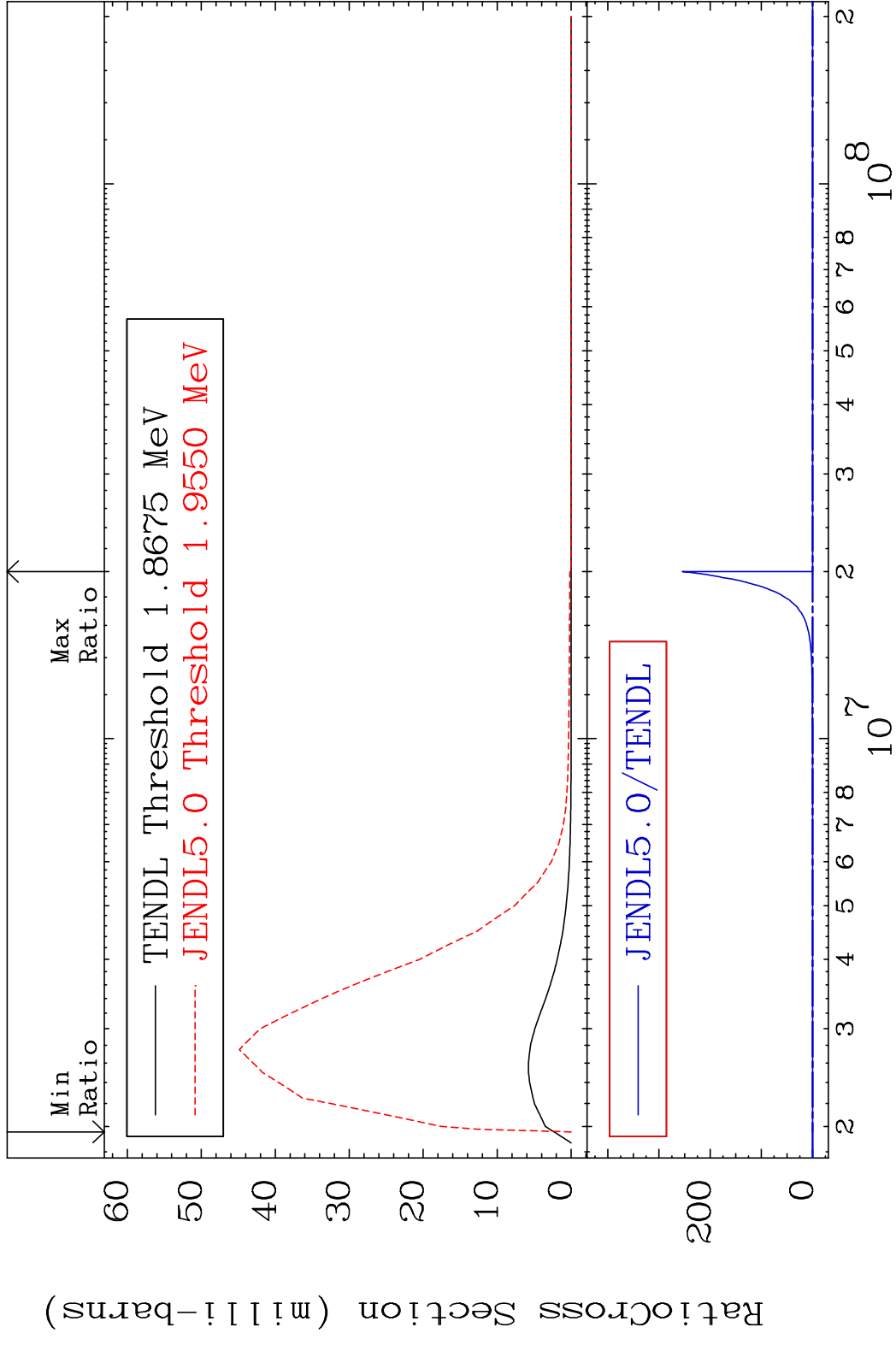
MAT 5728 MT= 72 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



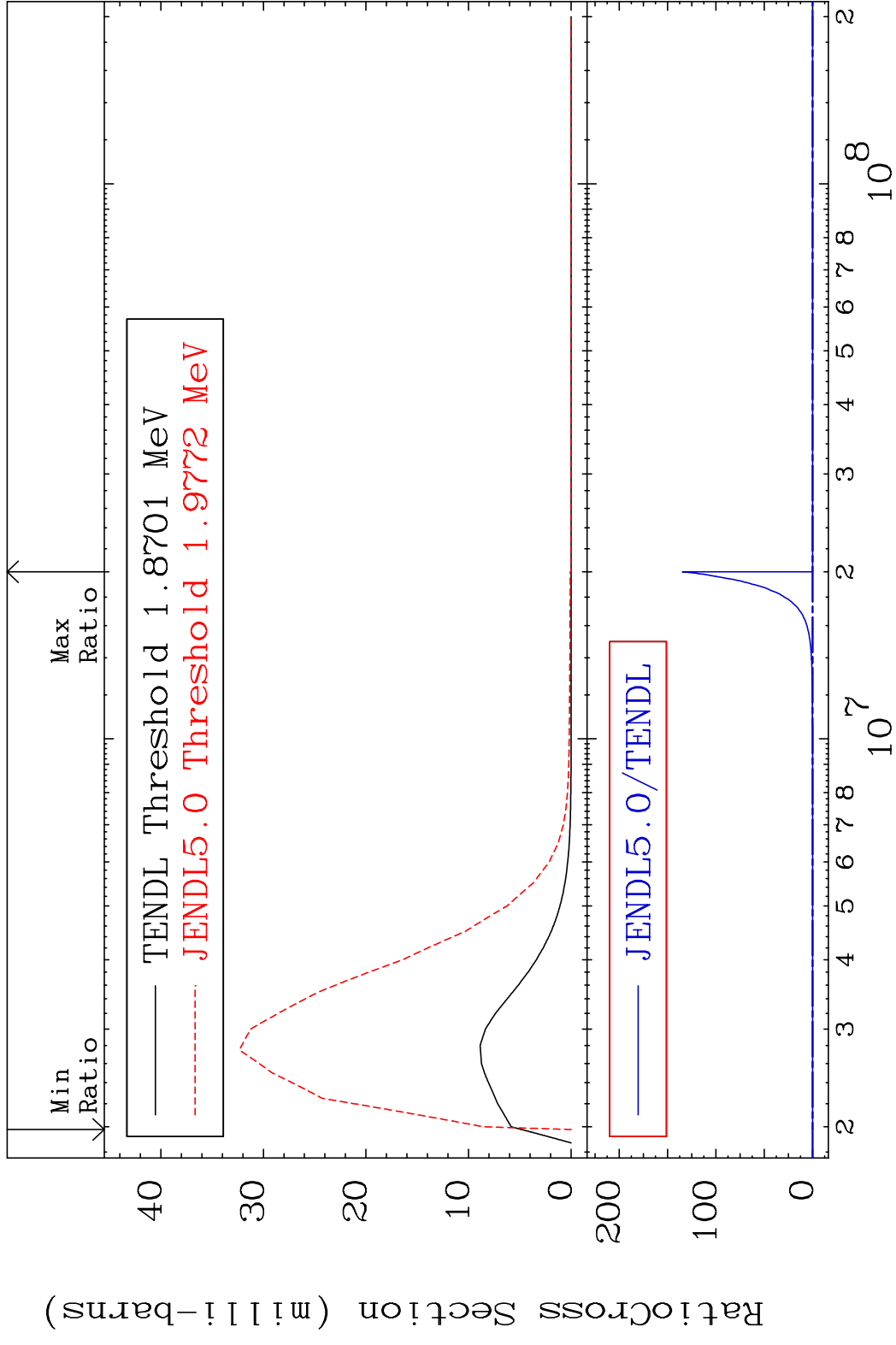
MAT 5728 MT= 73 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



MAT 5728 MT= 74 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %



MAT 5728 MT= 75 (n, n') Level 57-La-139  
 Cross Section -100.0 To 9999. %

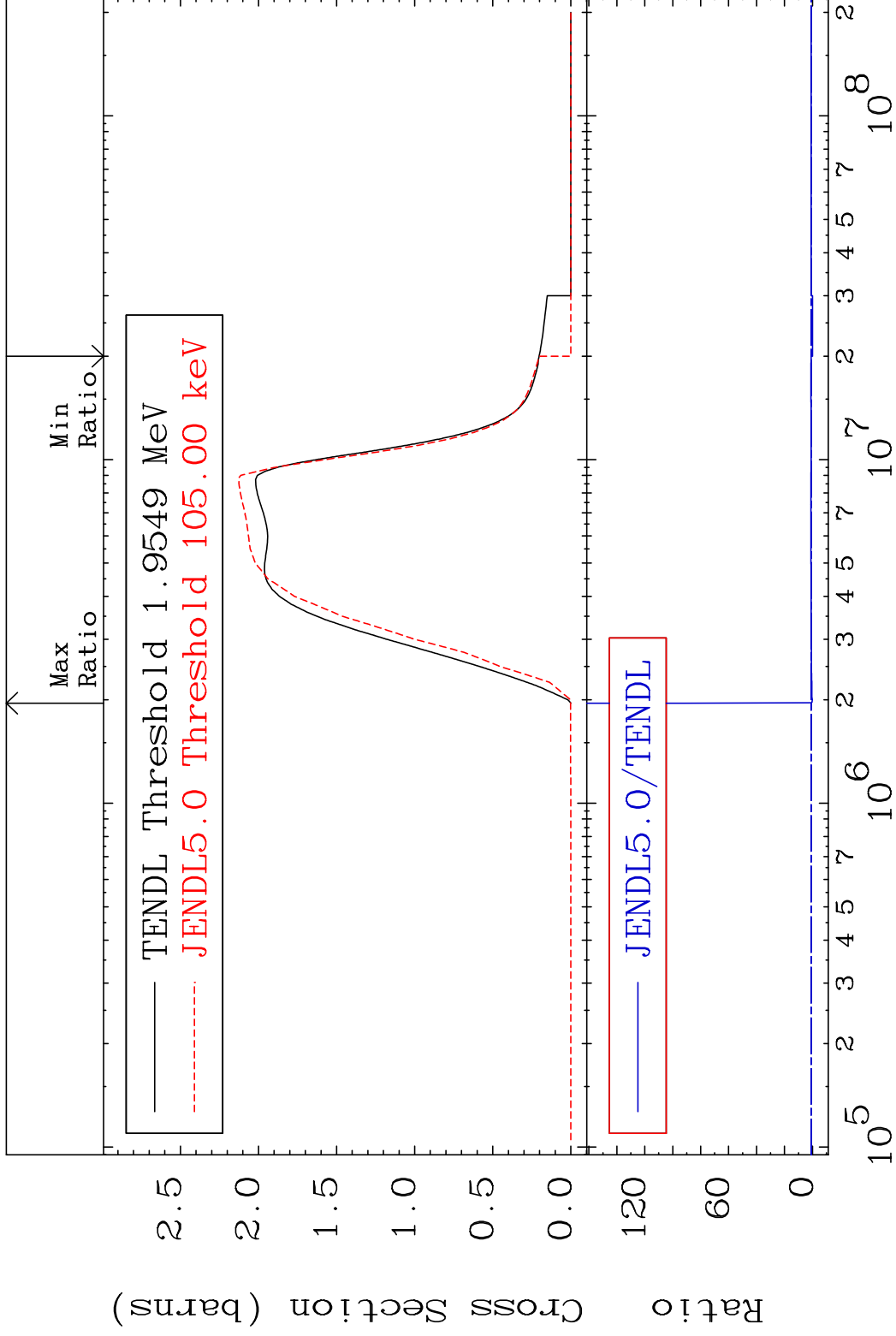


MAT 5728

(n, n') Continuum

57-La-139

Cross Section -100.0 To 9226. %



37

Incident Energy (eV)

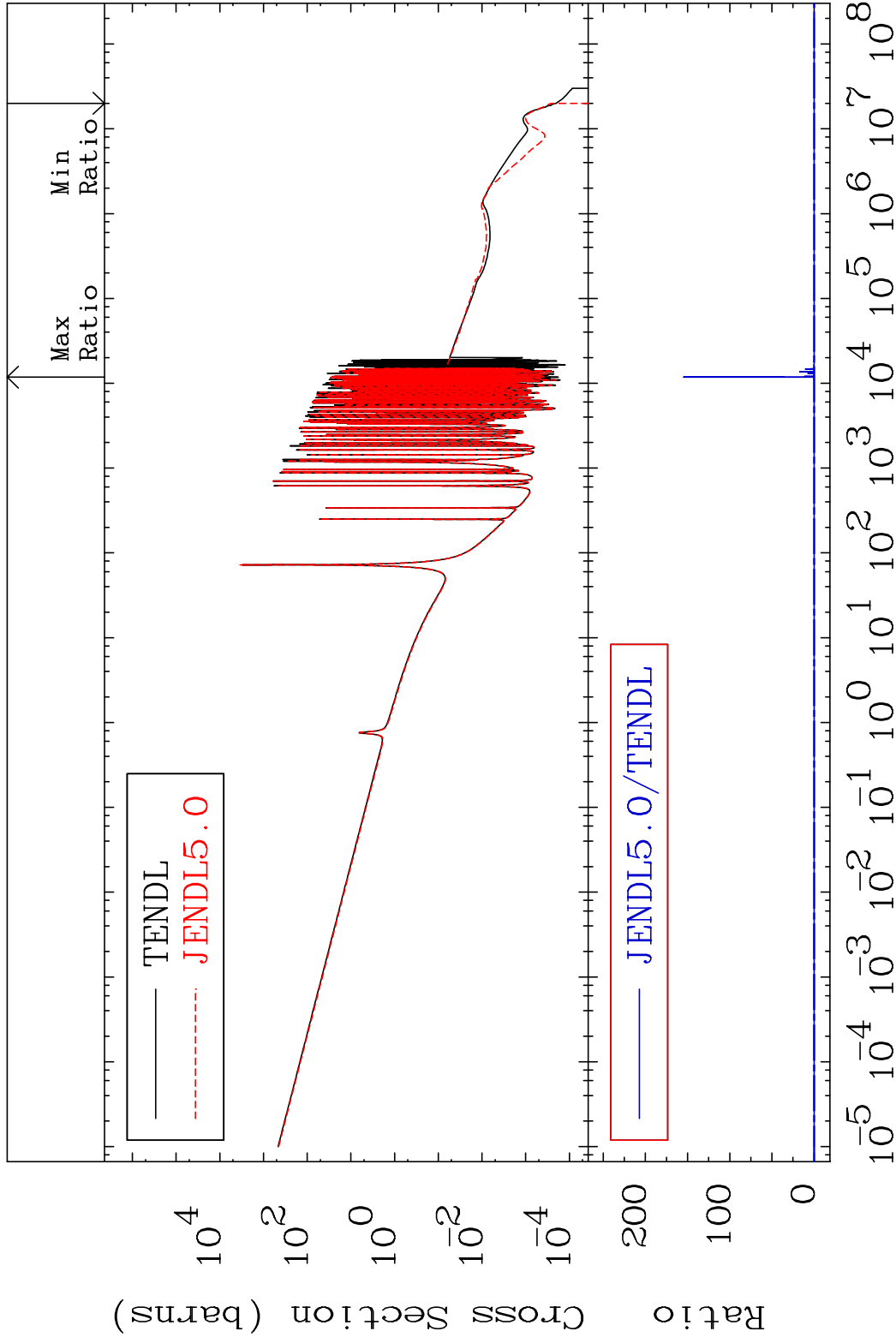
57-La-139

MAT 5728

(n,  $\gamma$ )

57-La-139

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

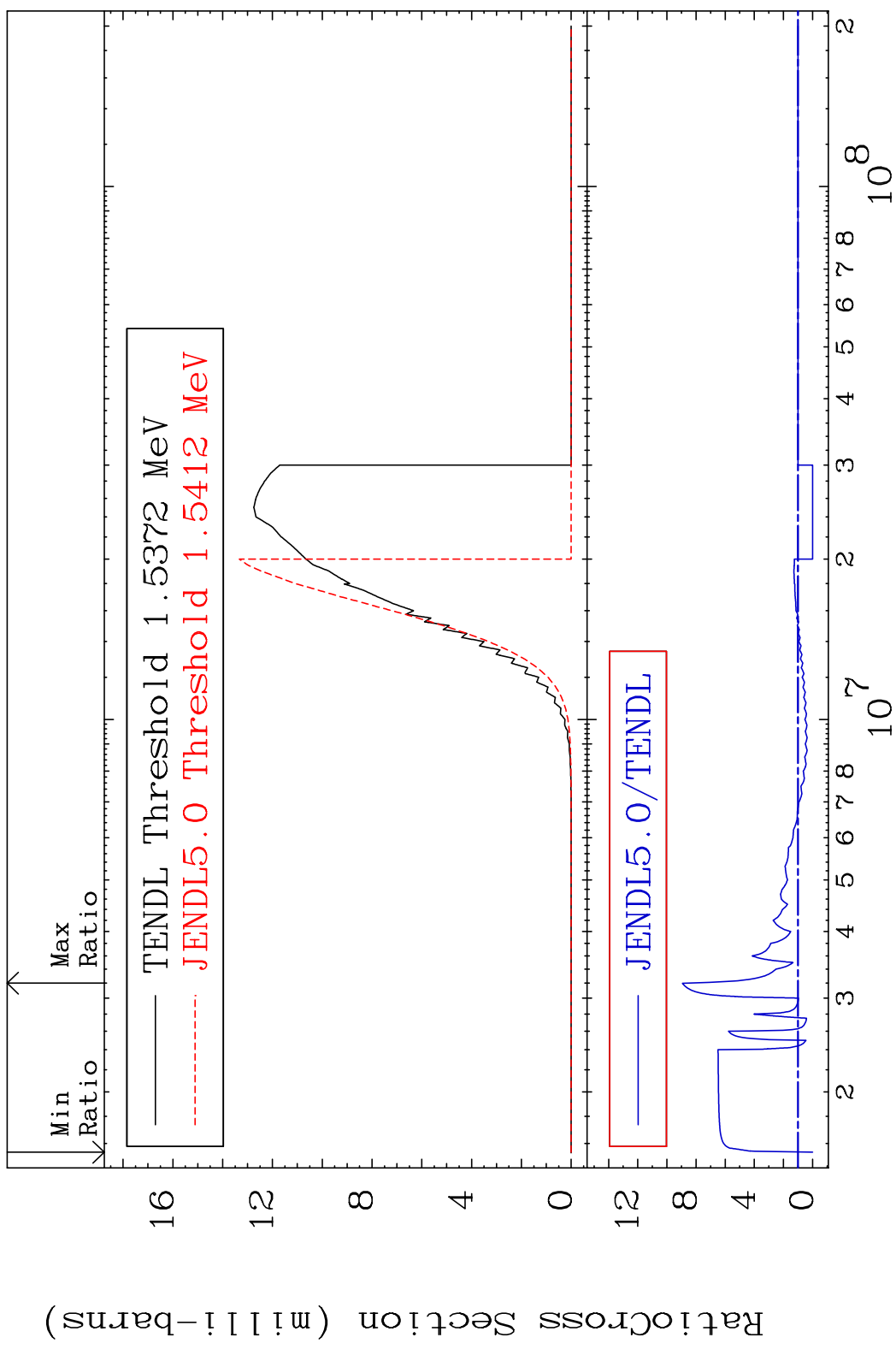
57-La-139

MAT 5728

(n,p)

57-La-139

Cross Section -100.0 To 793.8 %



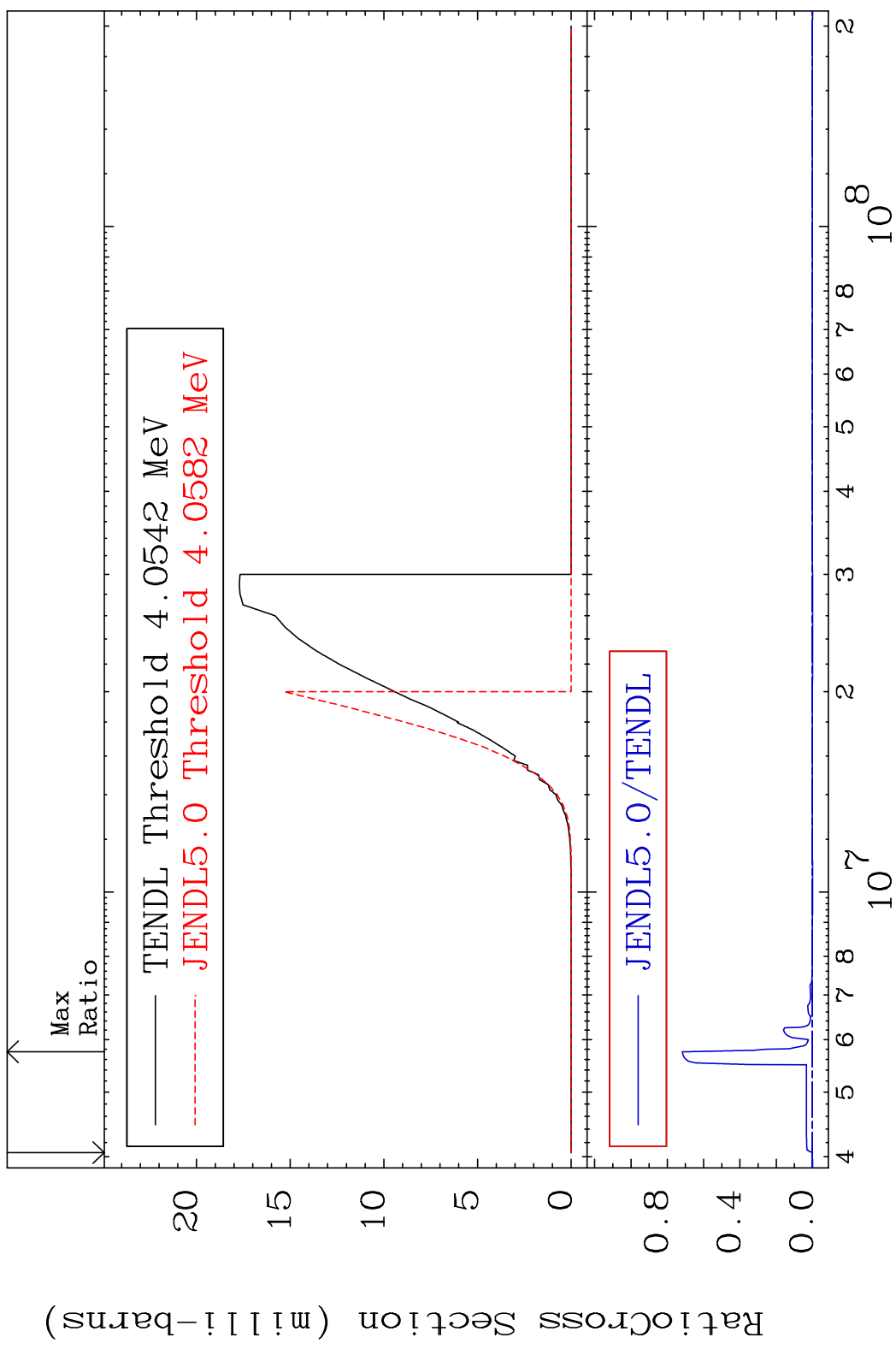


MAT 5728

(n,d)

57-La-139

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

57-La-139

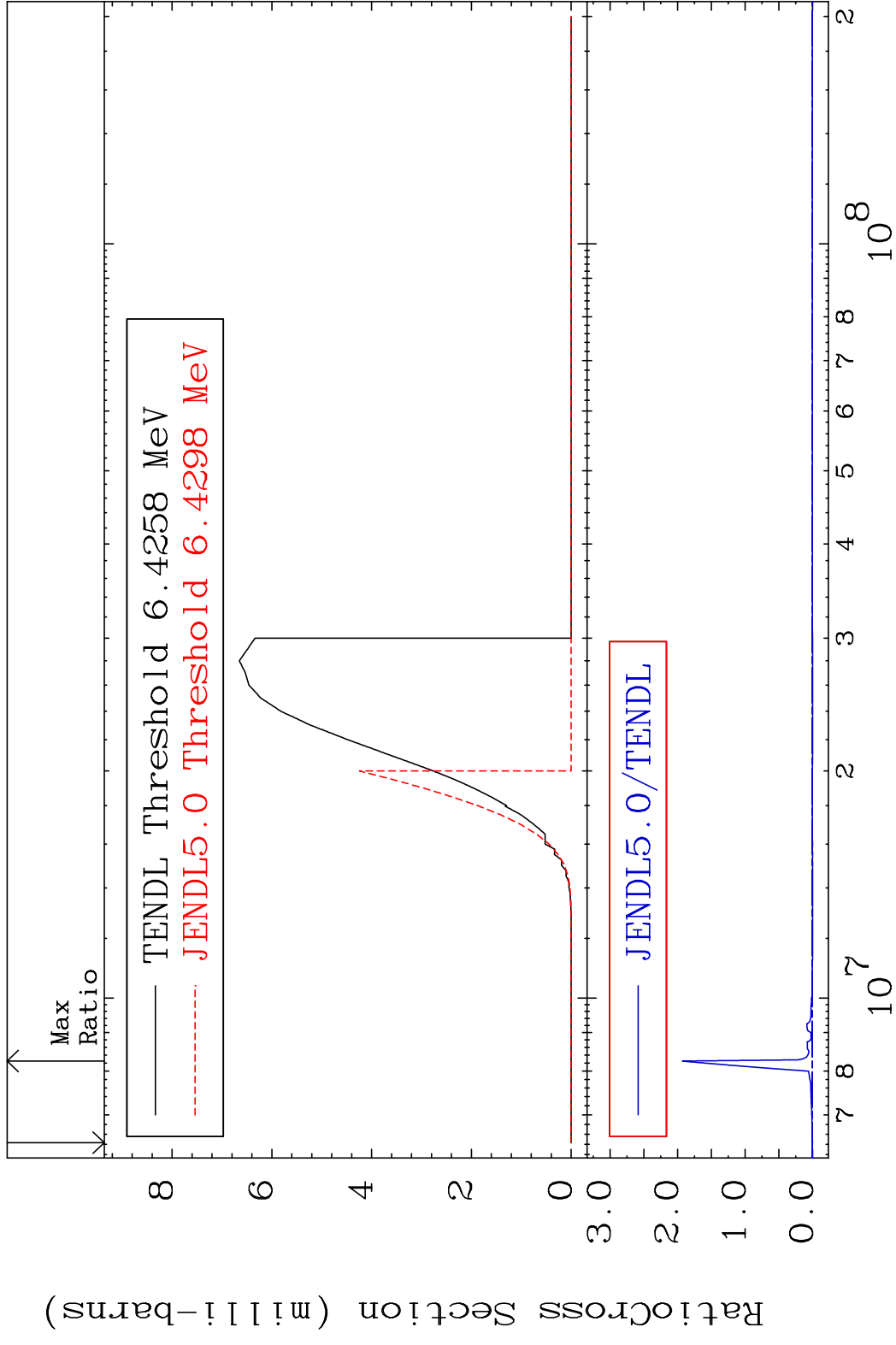
MAT 5728

(n, t)

57-La-139

Cross Section

-100.0 To 9999. %

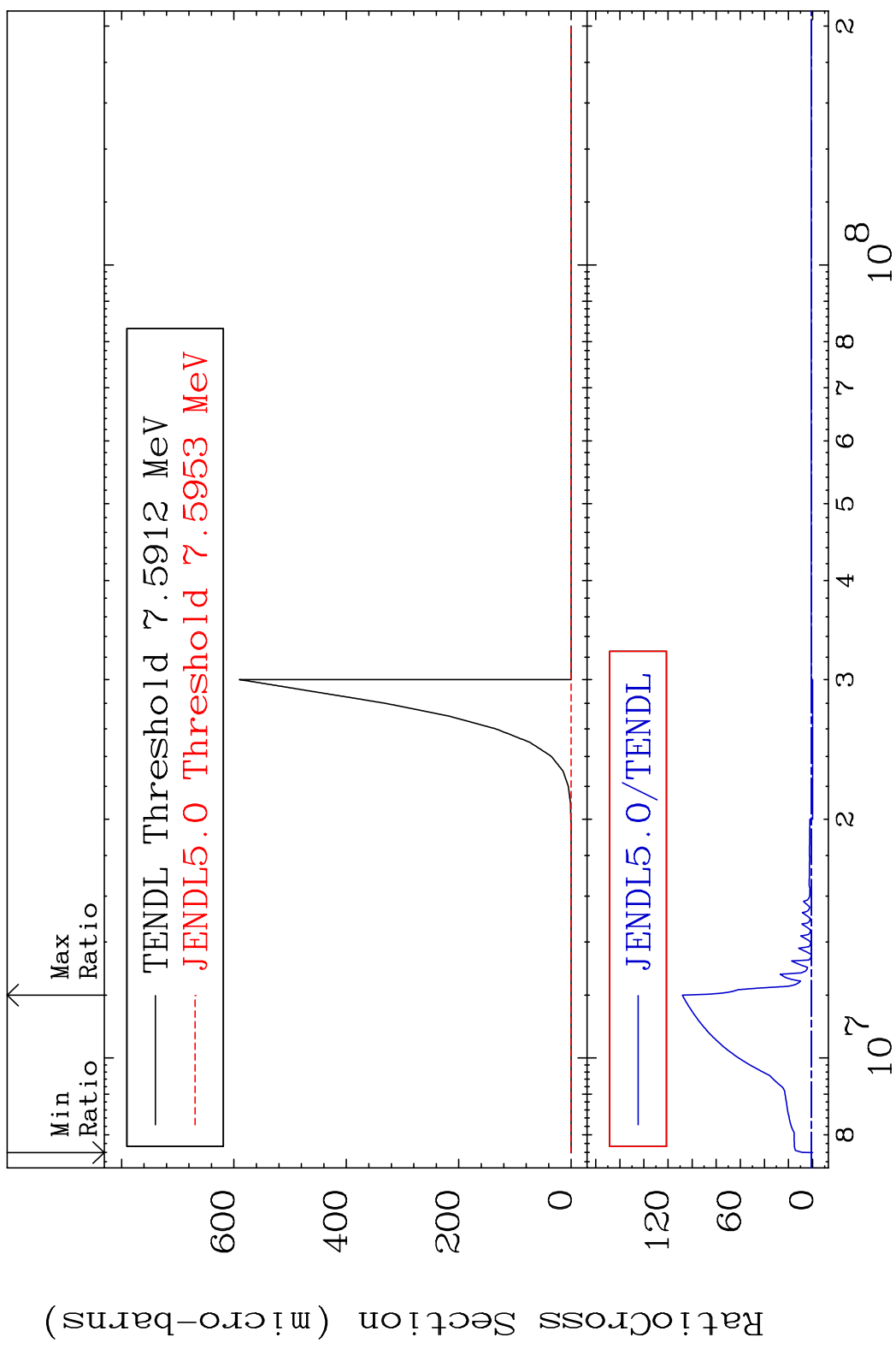


MAT 5728

(n, He-3)

57-La-139

Cross Section -100.0 To 9999. %

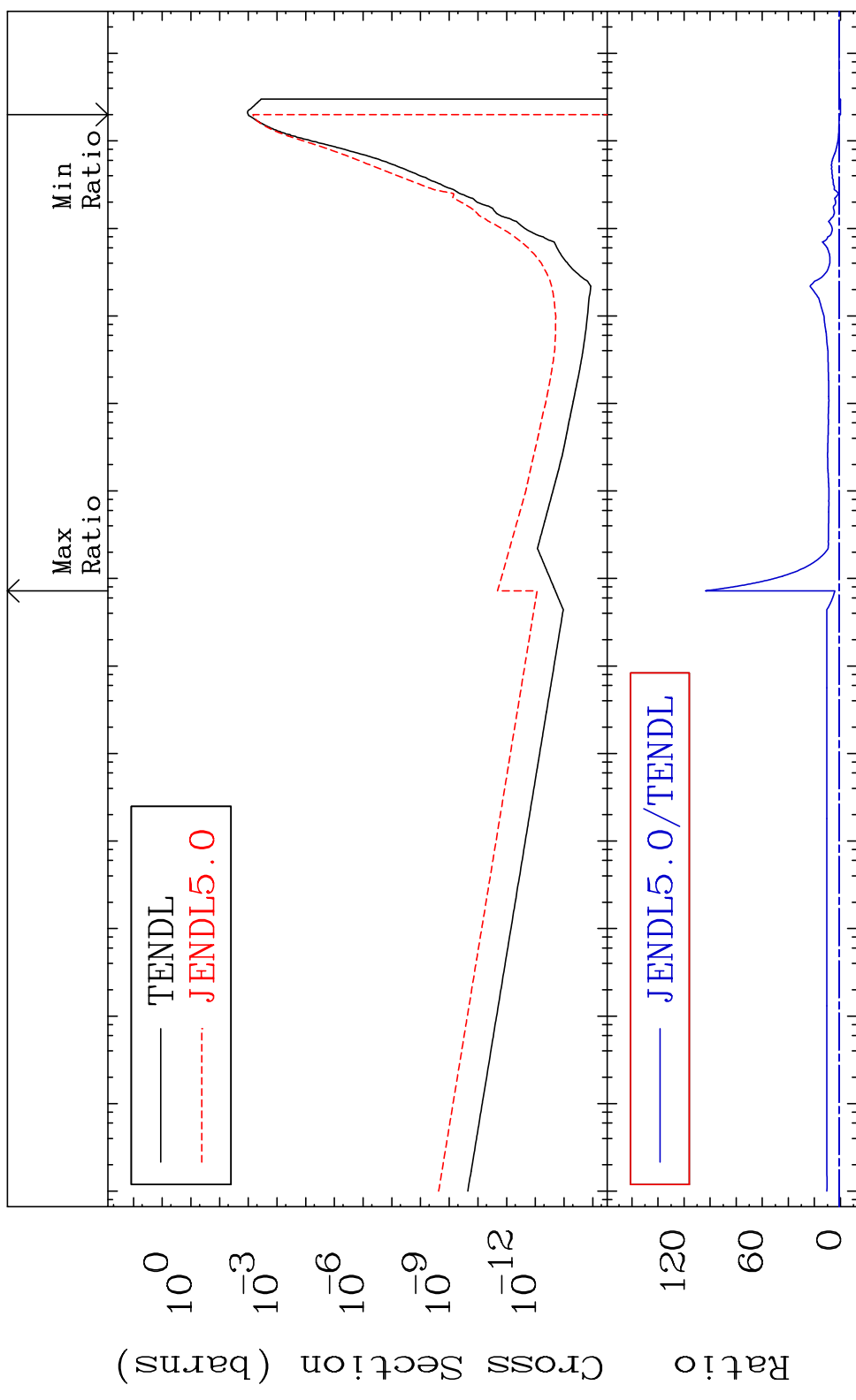


MAT 5728

(n,  $\alpha$ )

57-La-139

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

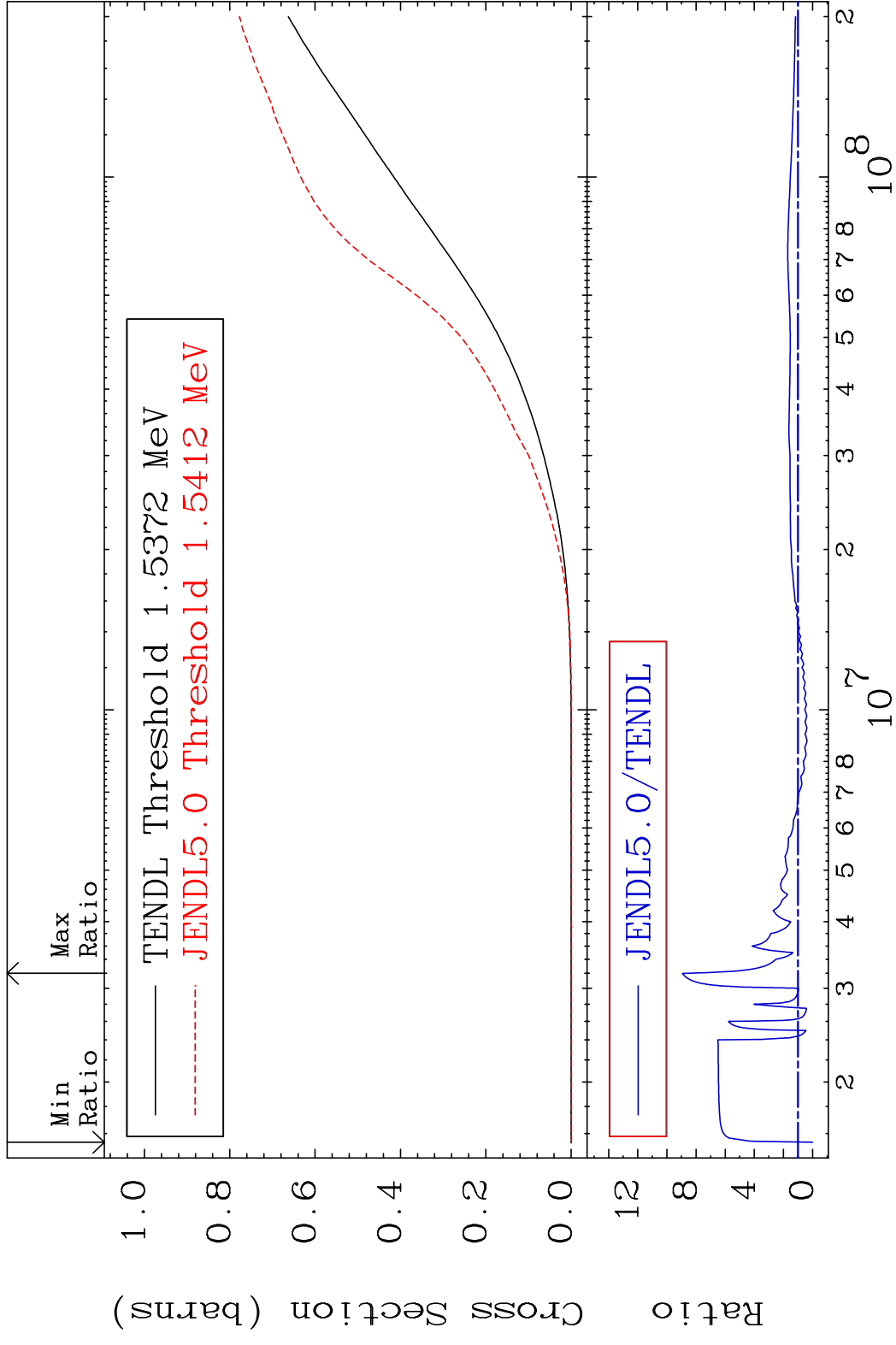
57-La-139

MAT 5728

Hydrogen Production

57-La-139

Cross Section -100.0 To 793.8 %

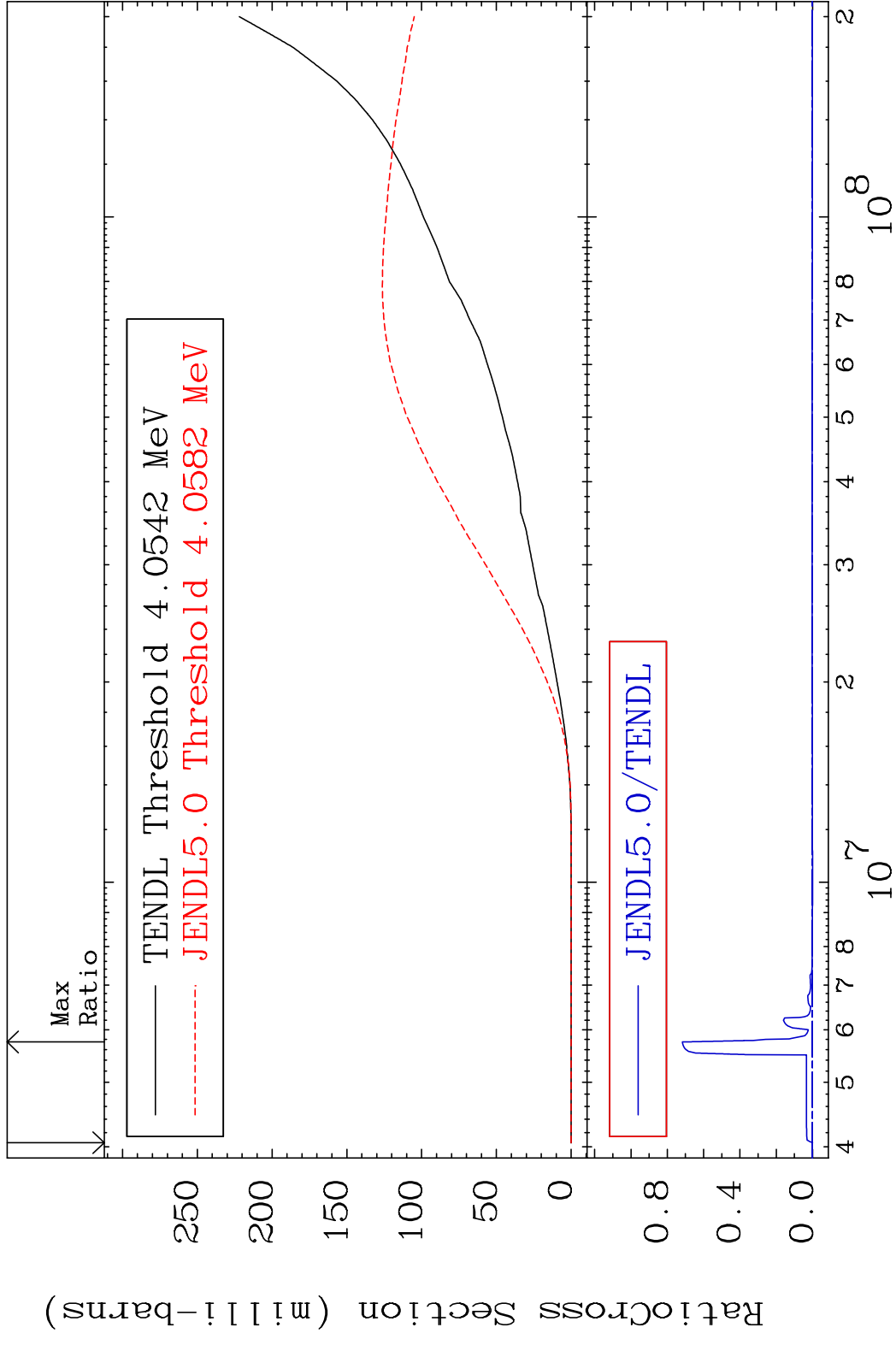


MAT 5728

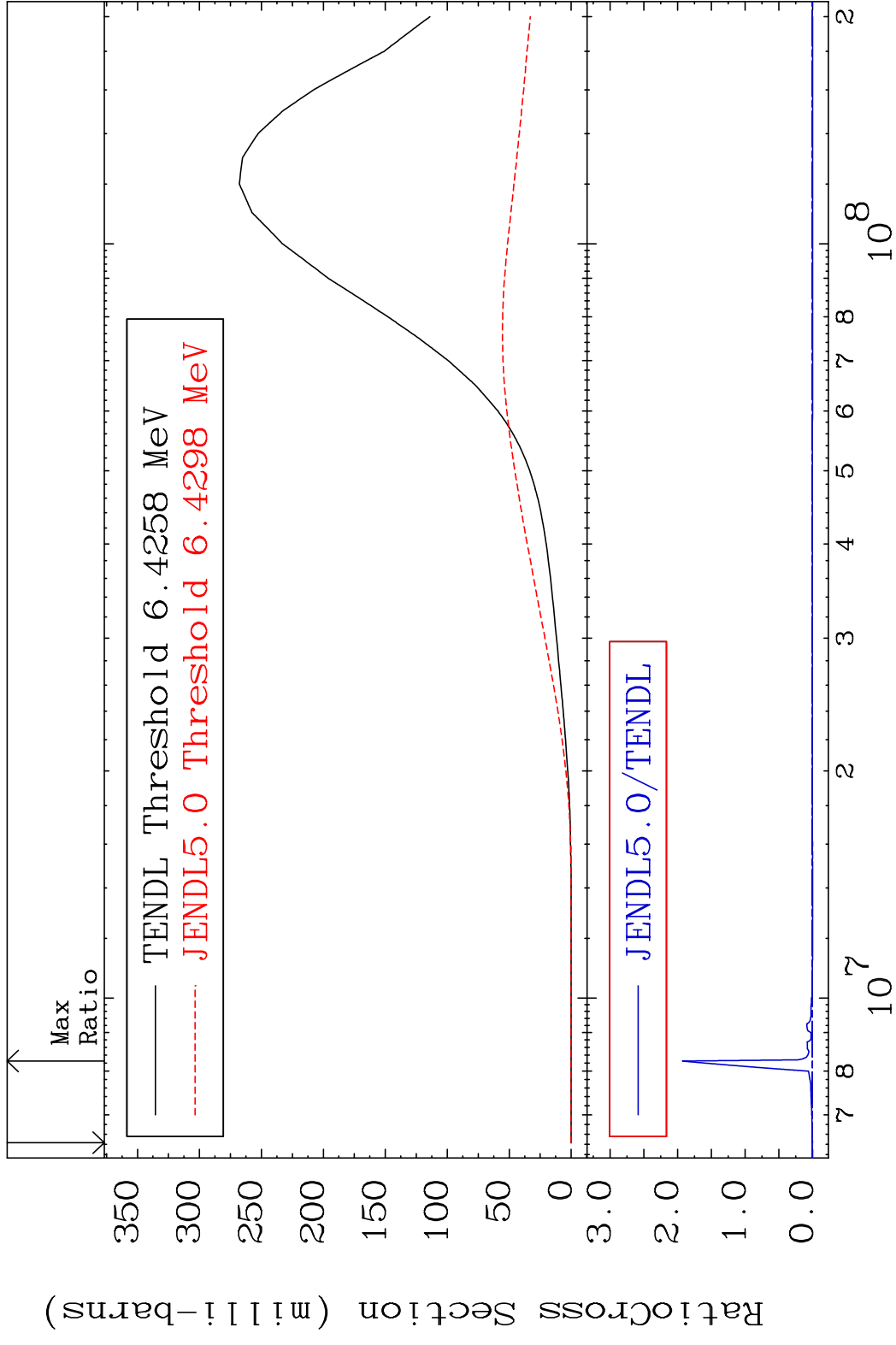
Deuterium Production

57-La-139

Cross Section -100.0 To 9999. %



MAT 5728 Tritium Production 57-La-139  
 Cross Section -100.0 To 9999. %

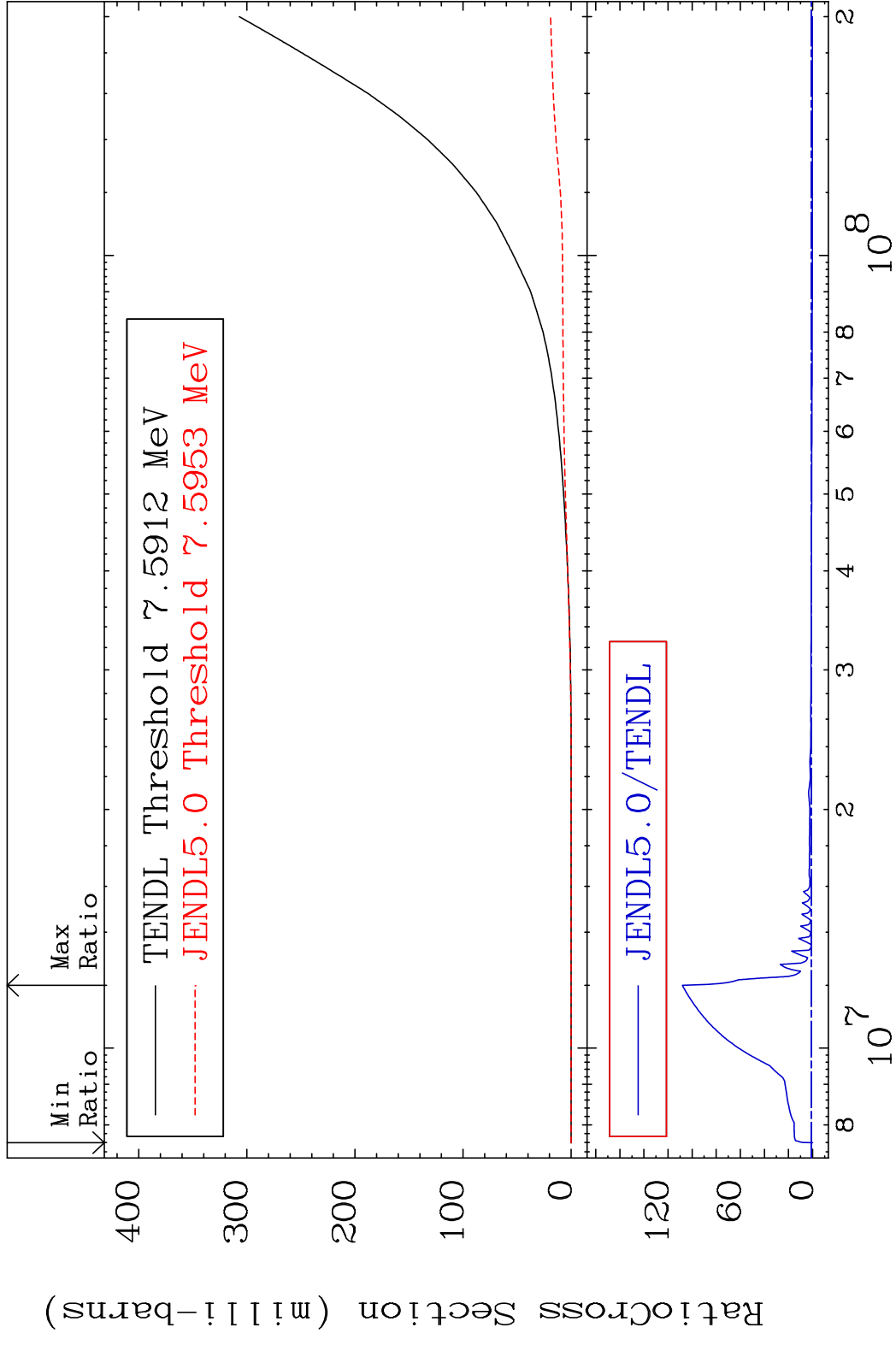


MAT 5728

He-3 Production

57-La-139

Cross Section -100.0 To 9999. %



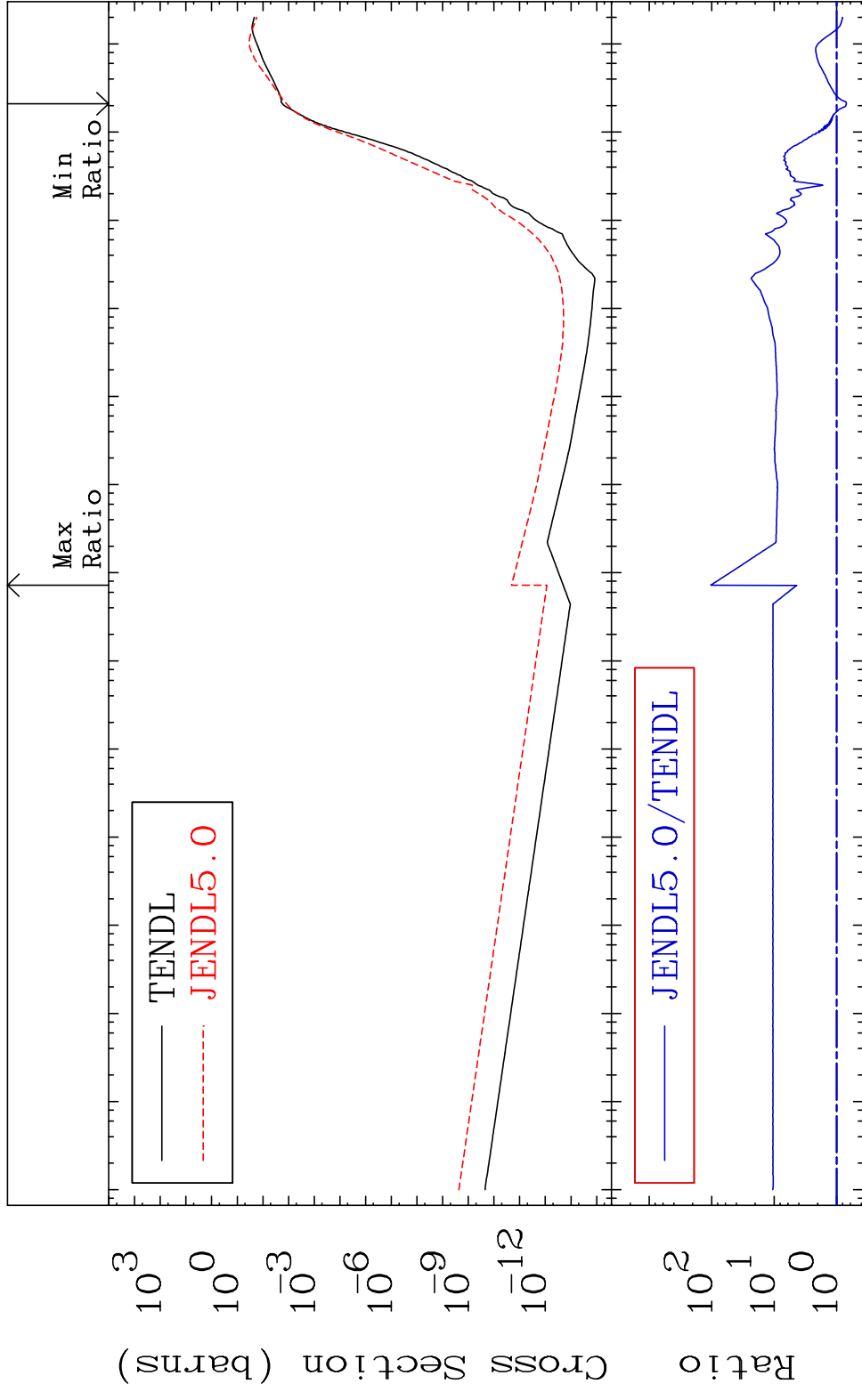


MAT 5728

He-4 Production

57-La-139

Cross Section -30.29 To 9999. %



Cross Section (barns)

Ratio

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>

48

Incident Energy (eV)

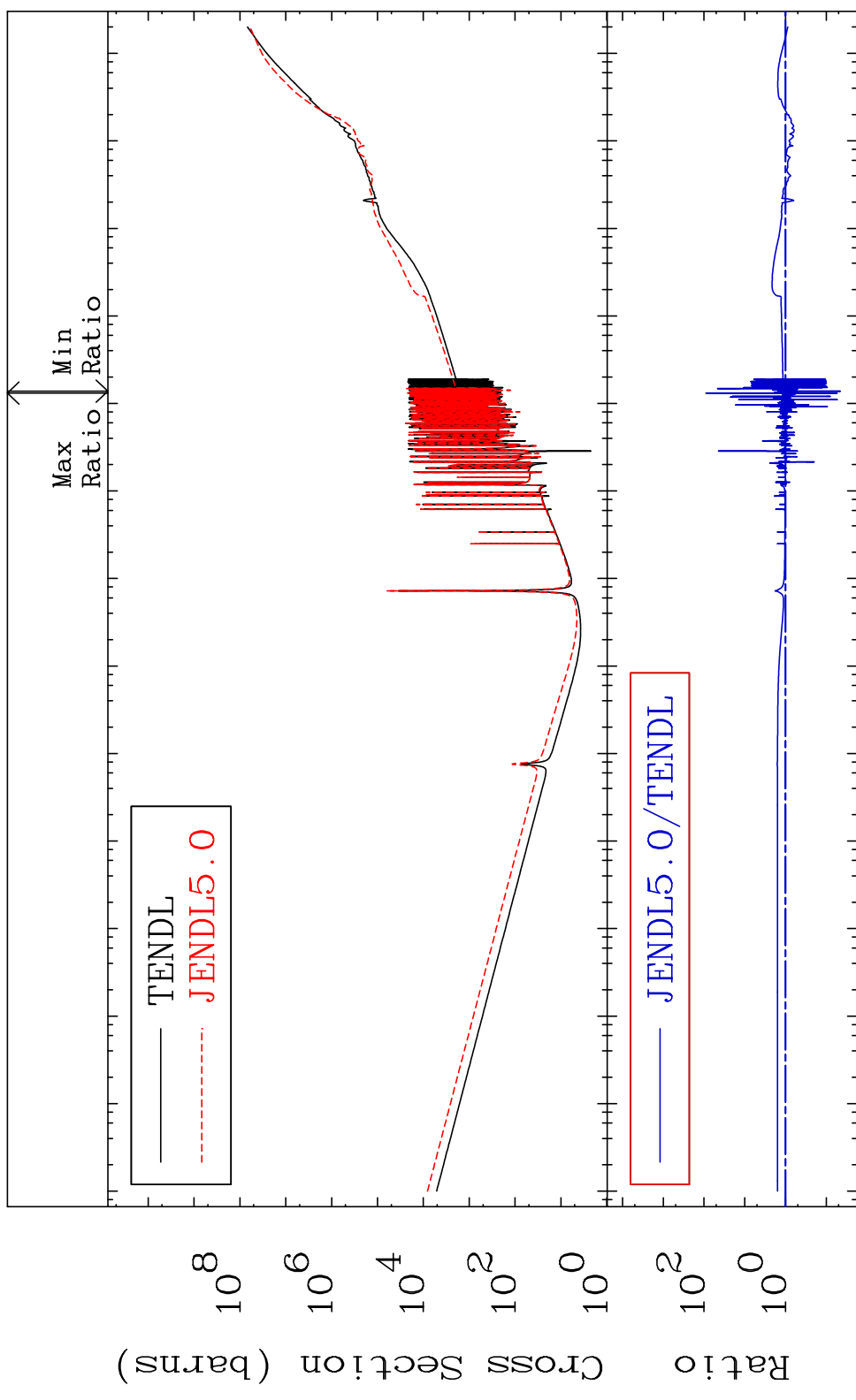
57-La-139

MAT 5728

Kerma total (eV-barns)

57-La-139

Cross Section -95.48 To 8960. %



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>

49

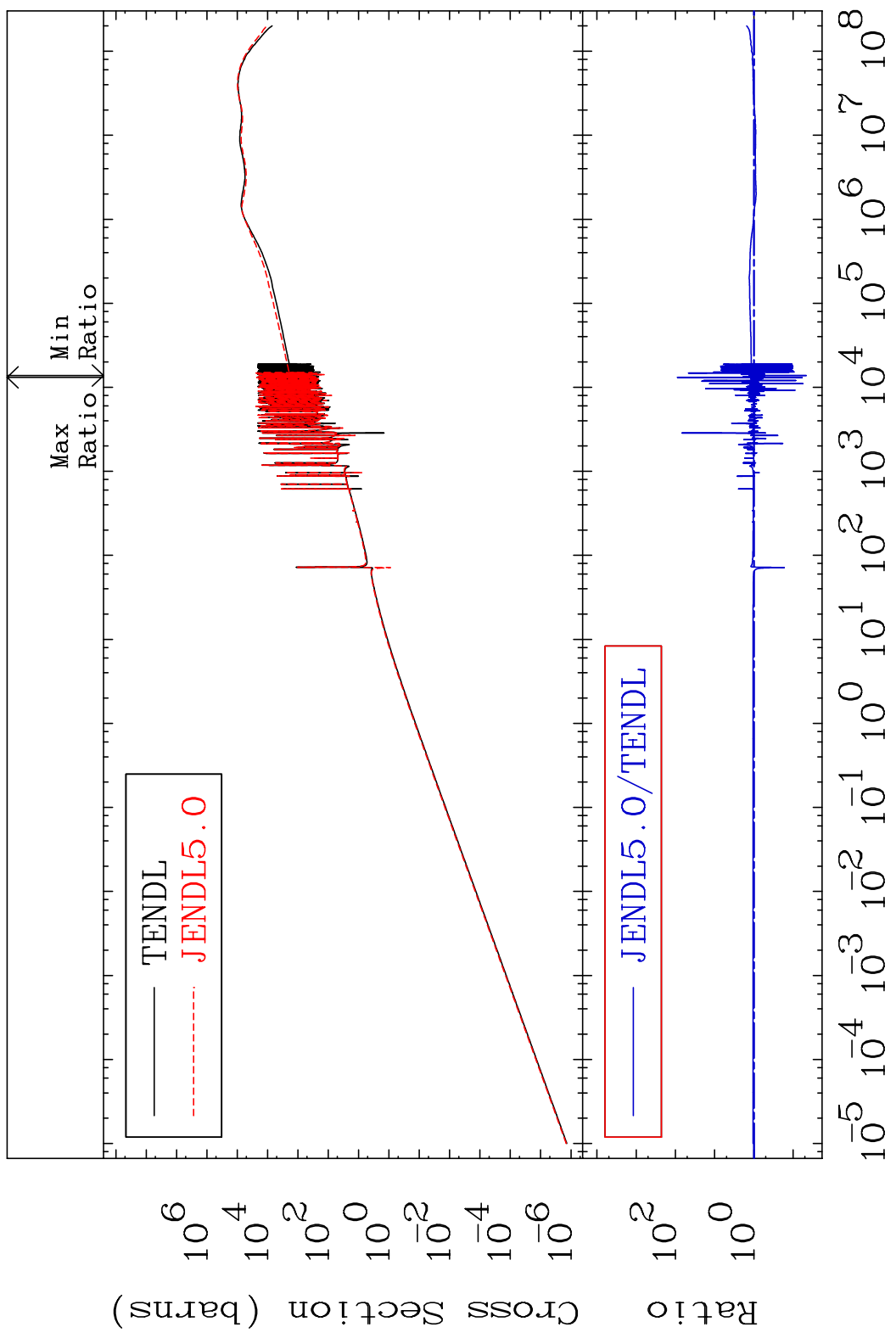
Incident Energy (eV)

57-La-139

MAT 5728

Kerma elastic  
Cross Section -95.42 To 8916. %

57-La-139

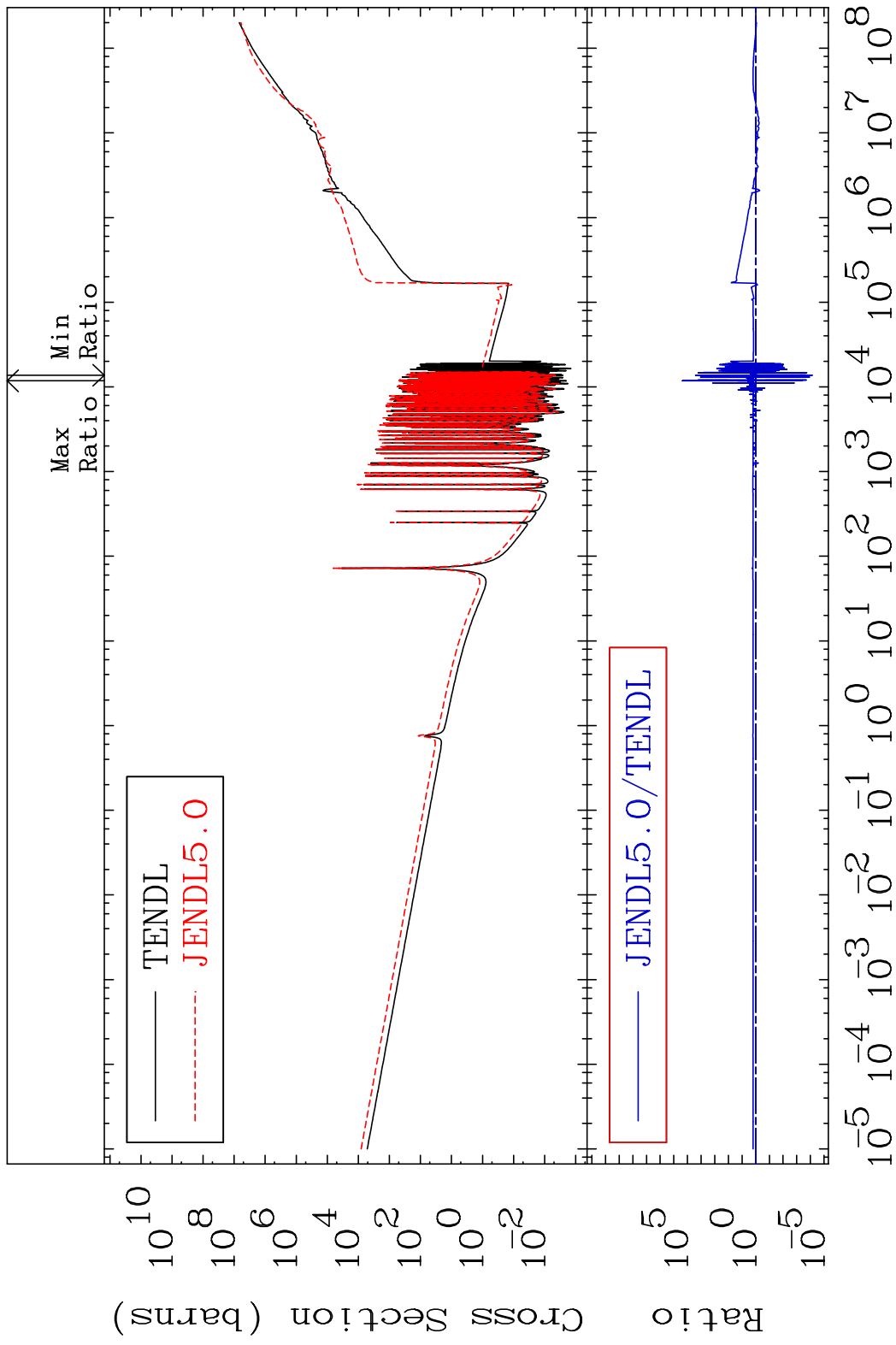


50

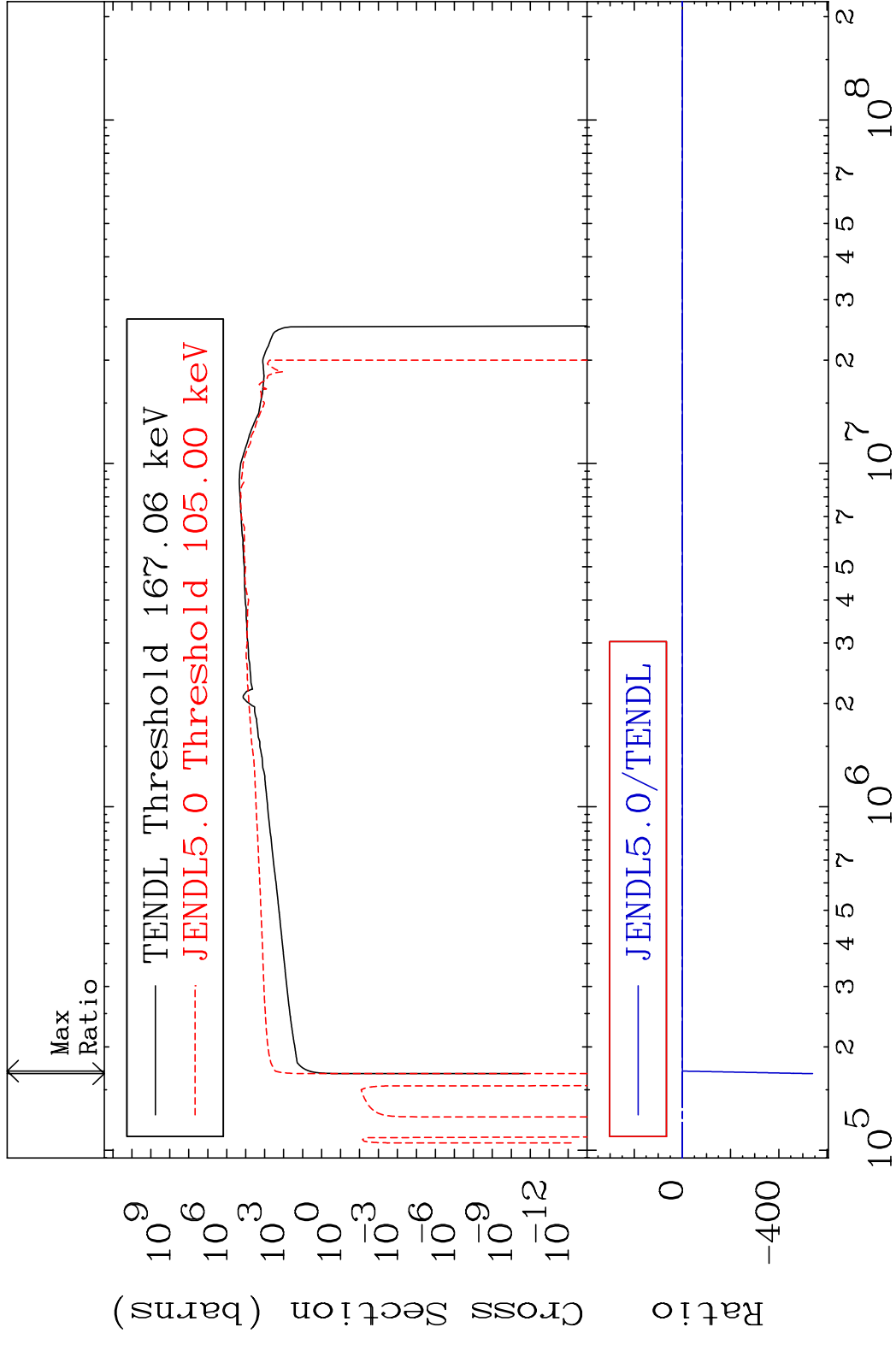
Incident Energy (eV)

57-La-139

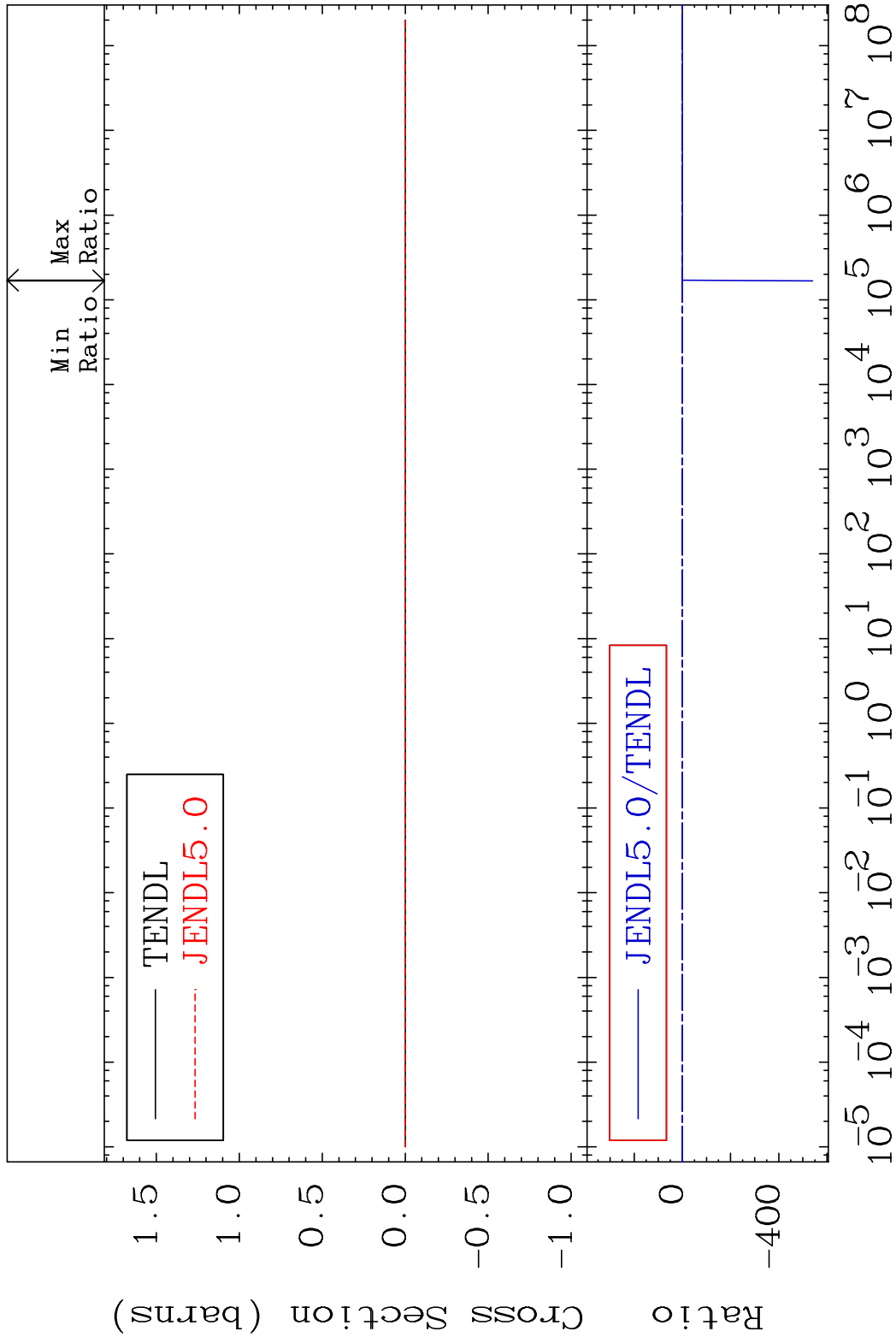
MAT 5728 Kerma non-elastic (all but mt2) 57-La-139  
 Cross Section -99.99 To 9999. %



MAT 5728 Kerma inelastic (mt51-91) 57-La-139  
 Cross Section -9999. To 6225. %

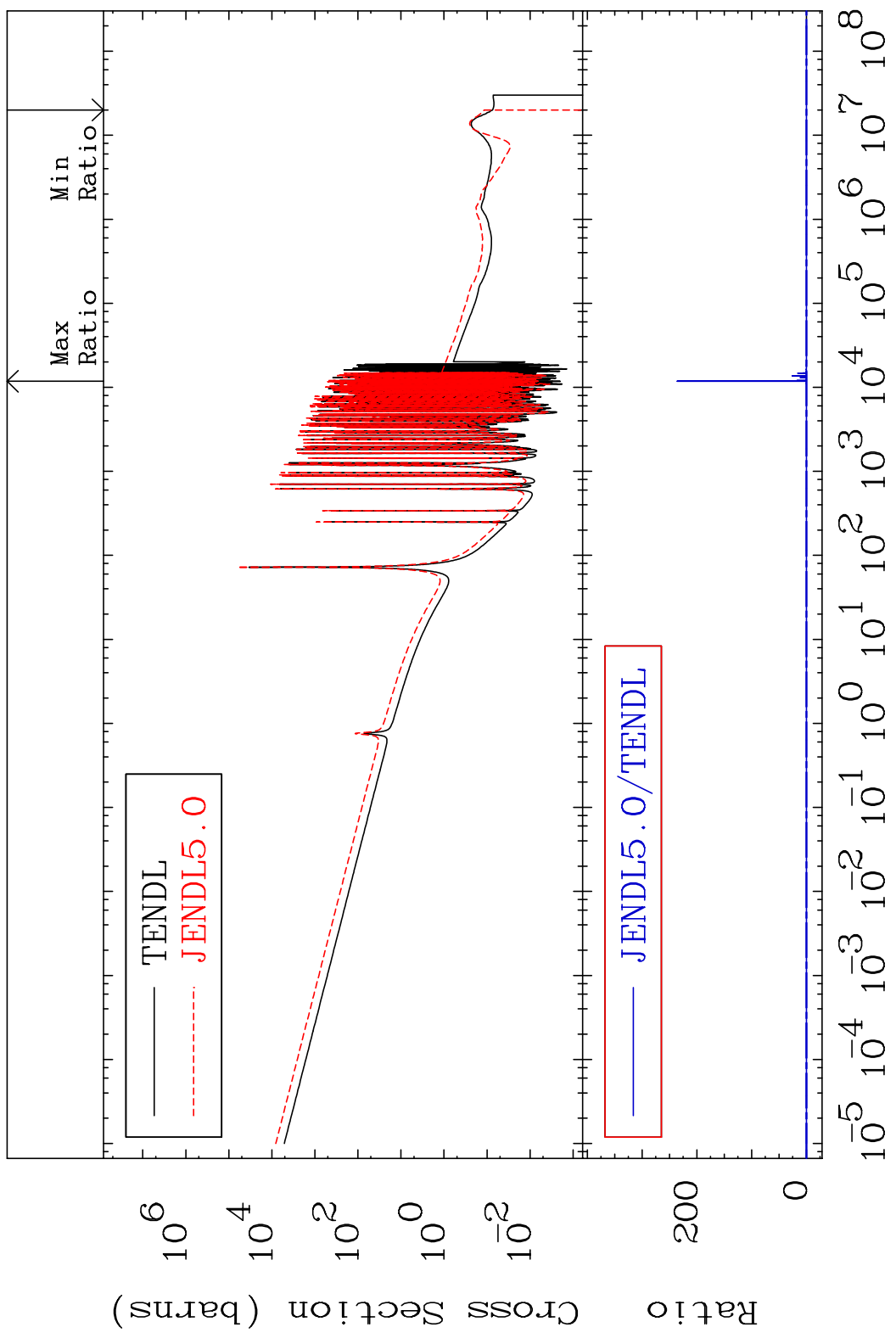


MAT 5728 Kerma fission (mt18 or mt19-20-21-38) 57-La-139  
 Cross Section -9999. To 6225. %



MAT 5728

Kerma capture (mt102) 57-La-139  
Cross Section -100.0 To 9999. %

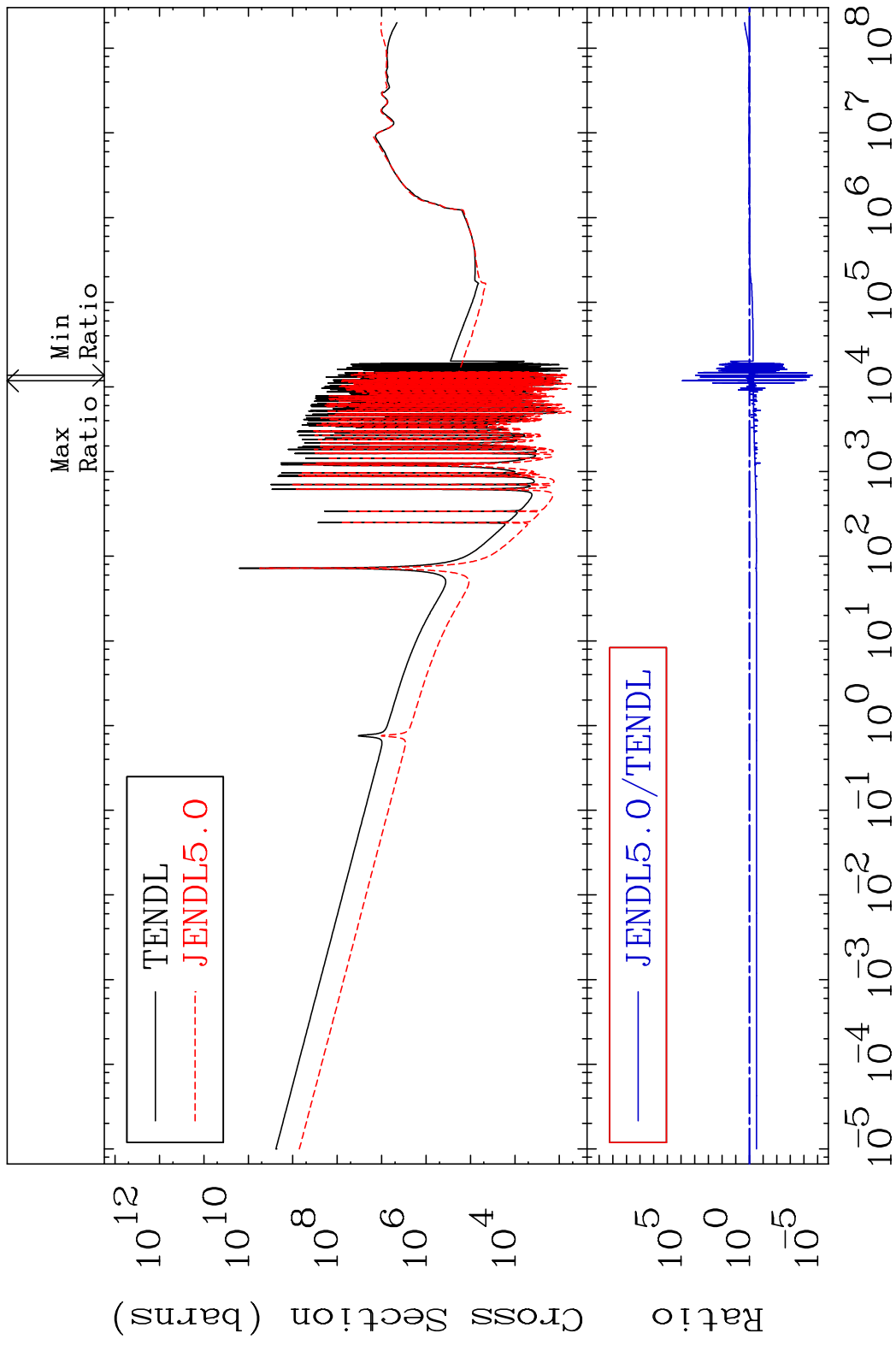


54

Incident Energy (eV)

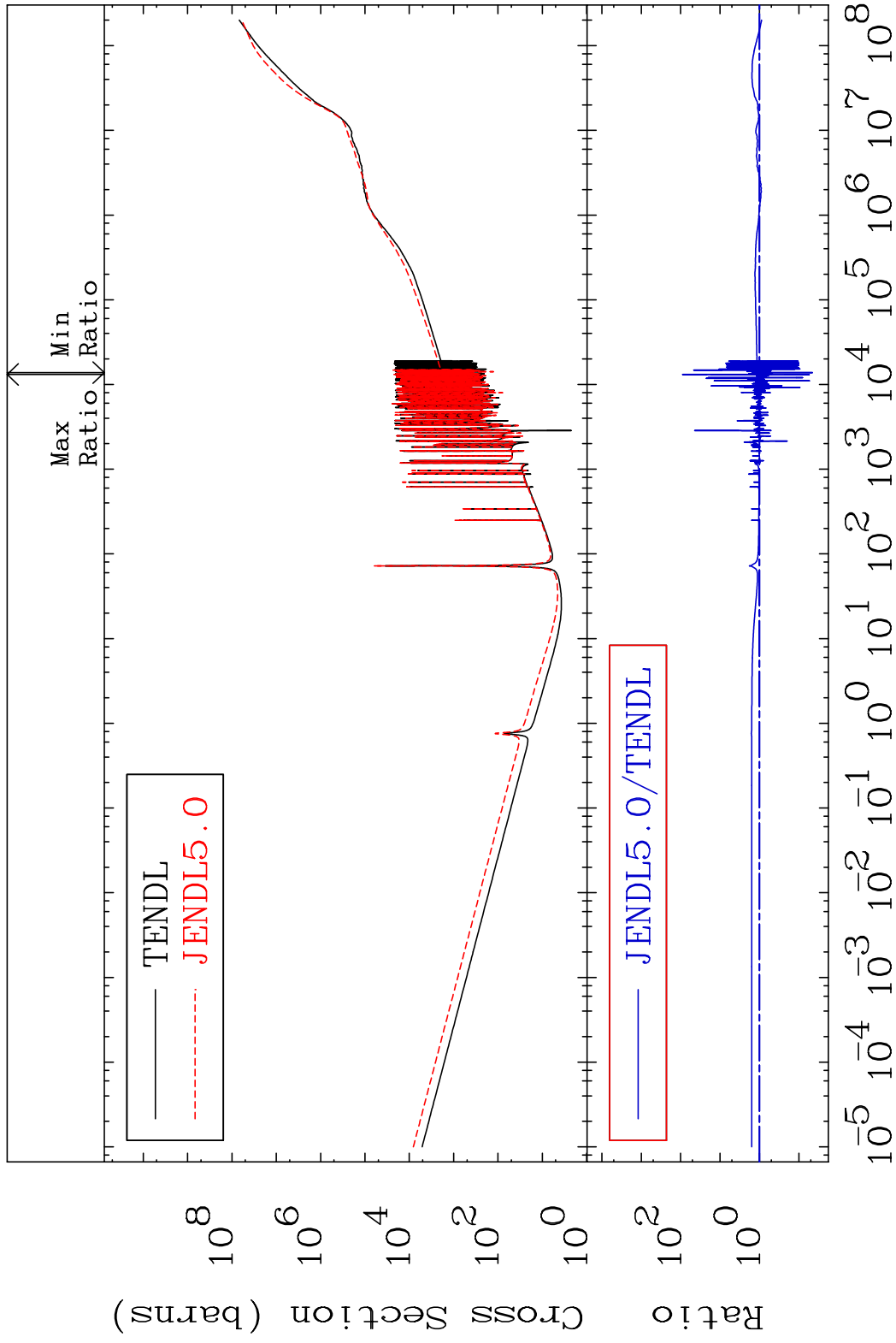
57-La-139

MAT 5728 Total photon (eV-barns) 57-La-139  
 Cross Section -100.0 To 9999. %





MAT 5728 Total kinematic kerma (high limit) 57-La-139  
 Cross Section -95.48 To 8960. %

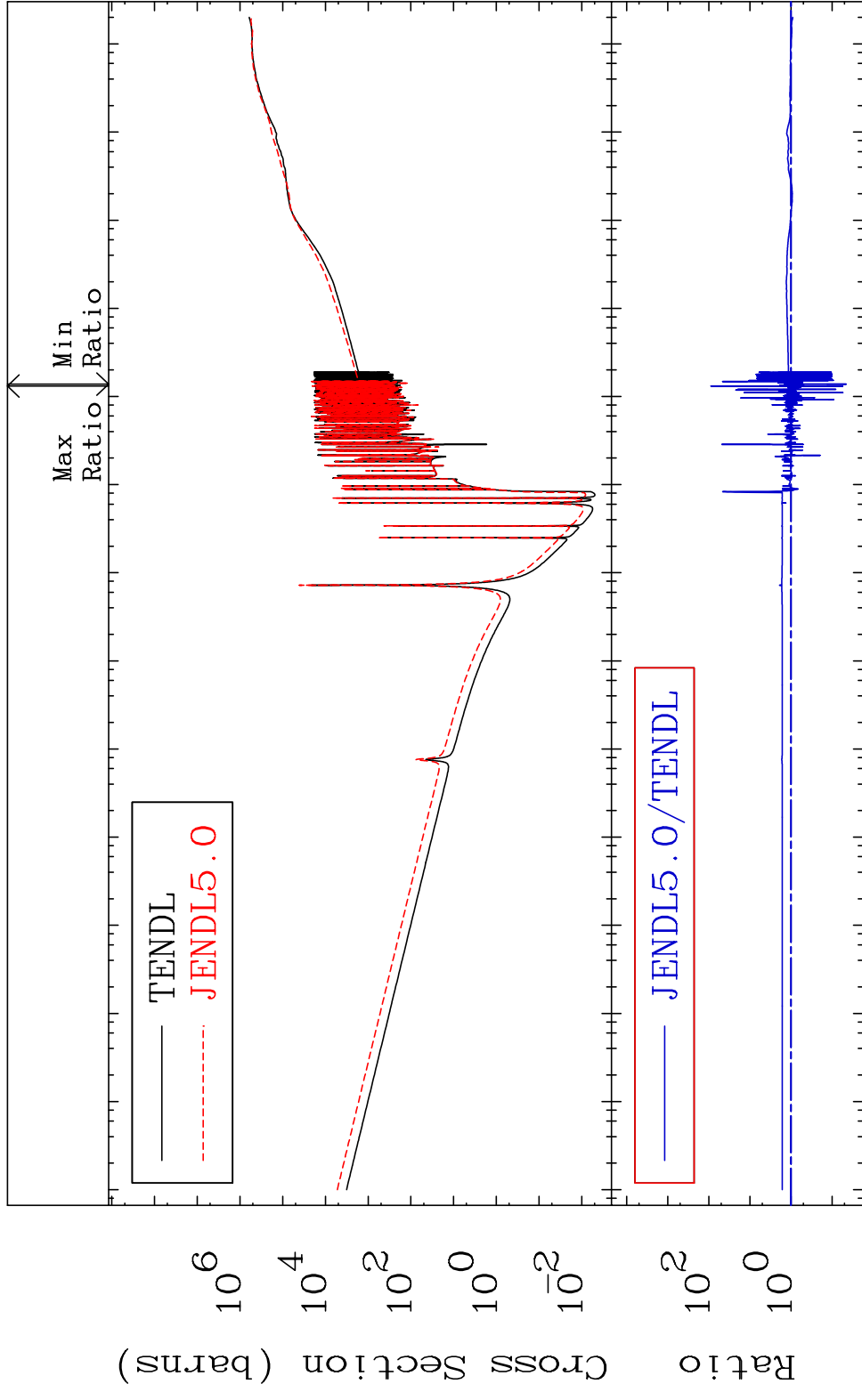


MAT 5728

Dpa total (eV-barns)

57-La-139

Cross Section -95.46 To 8947. %



57

Incident Energy (eV)

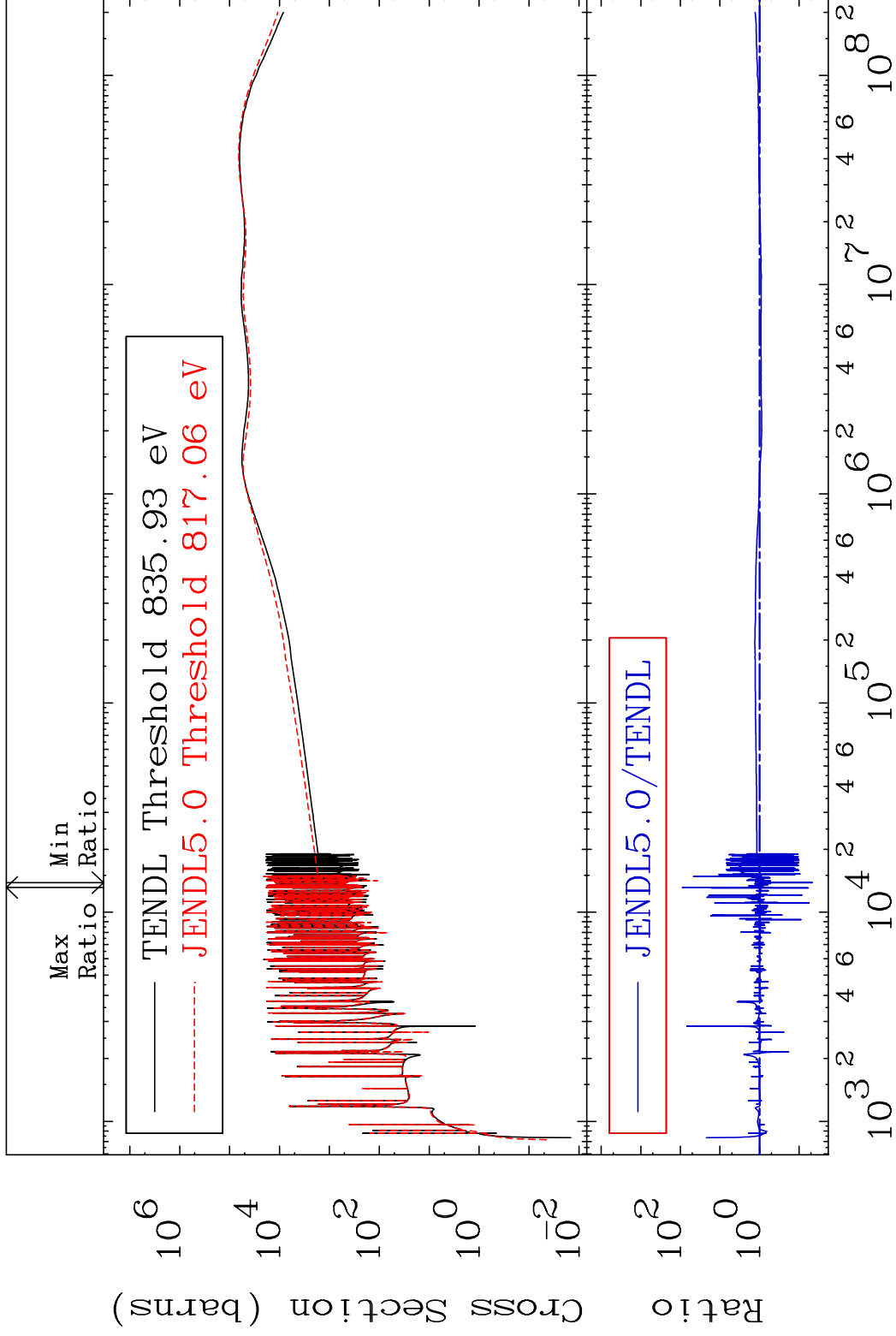
57-La-139

MAT 5728

Dpa elastic (mt2)

57-La-139

Cross Section -95.42 To 8916. %



58

Incident Energy (eV)

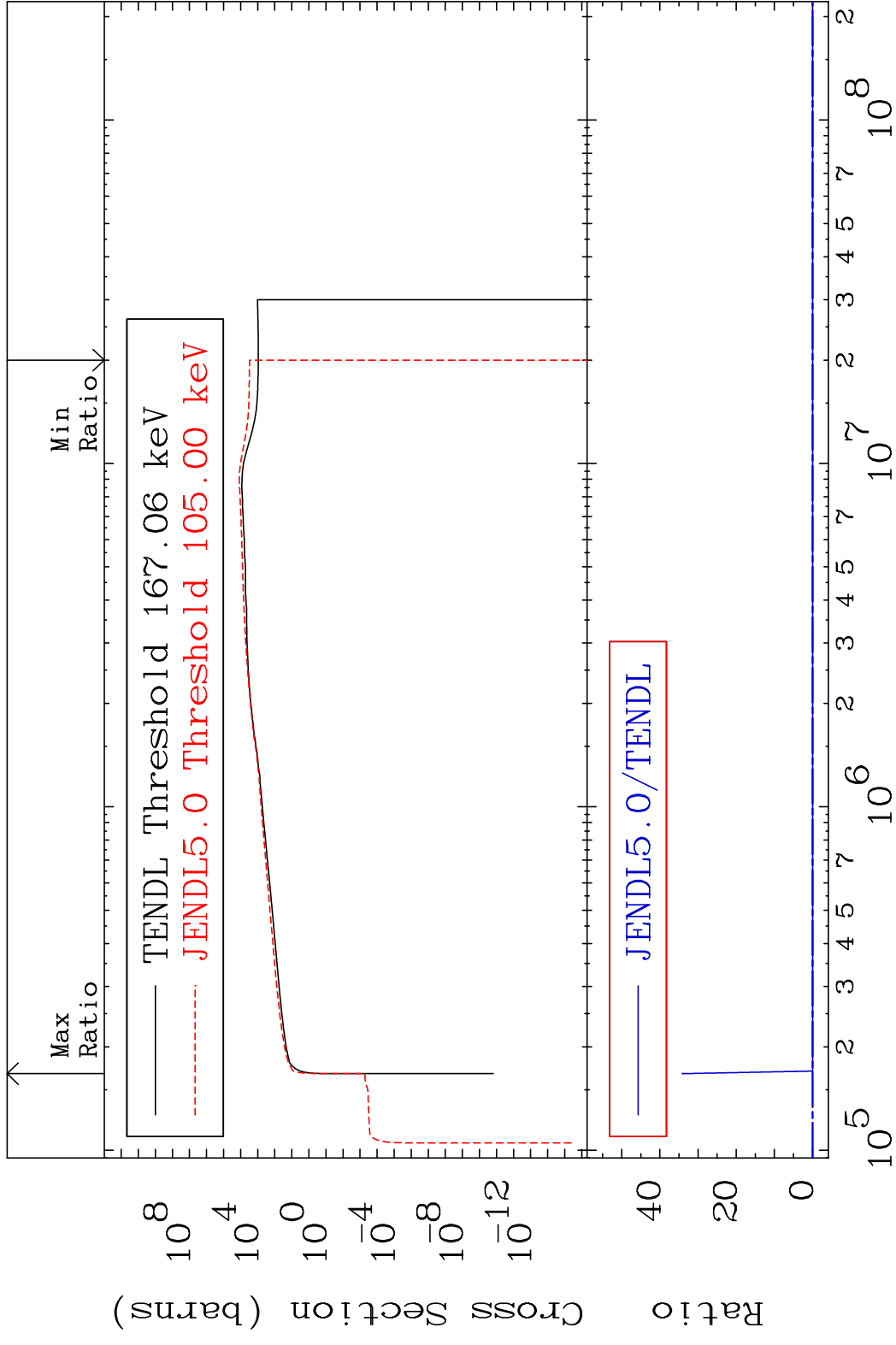
57-La-139

MAT 5728

Dpa inelastic (mt51-91)

57-La-139

Cross Section -100.0 To 9999. %

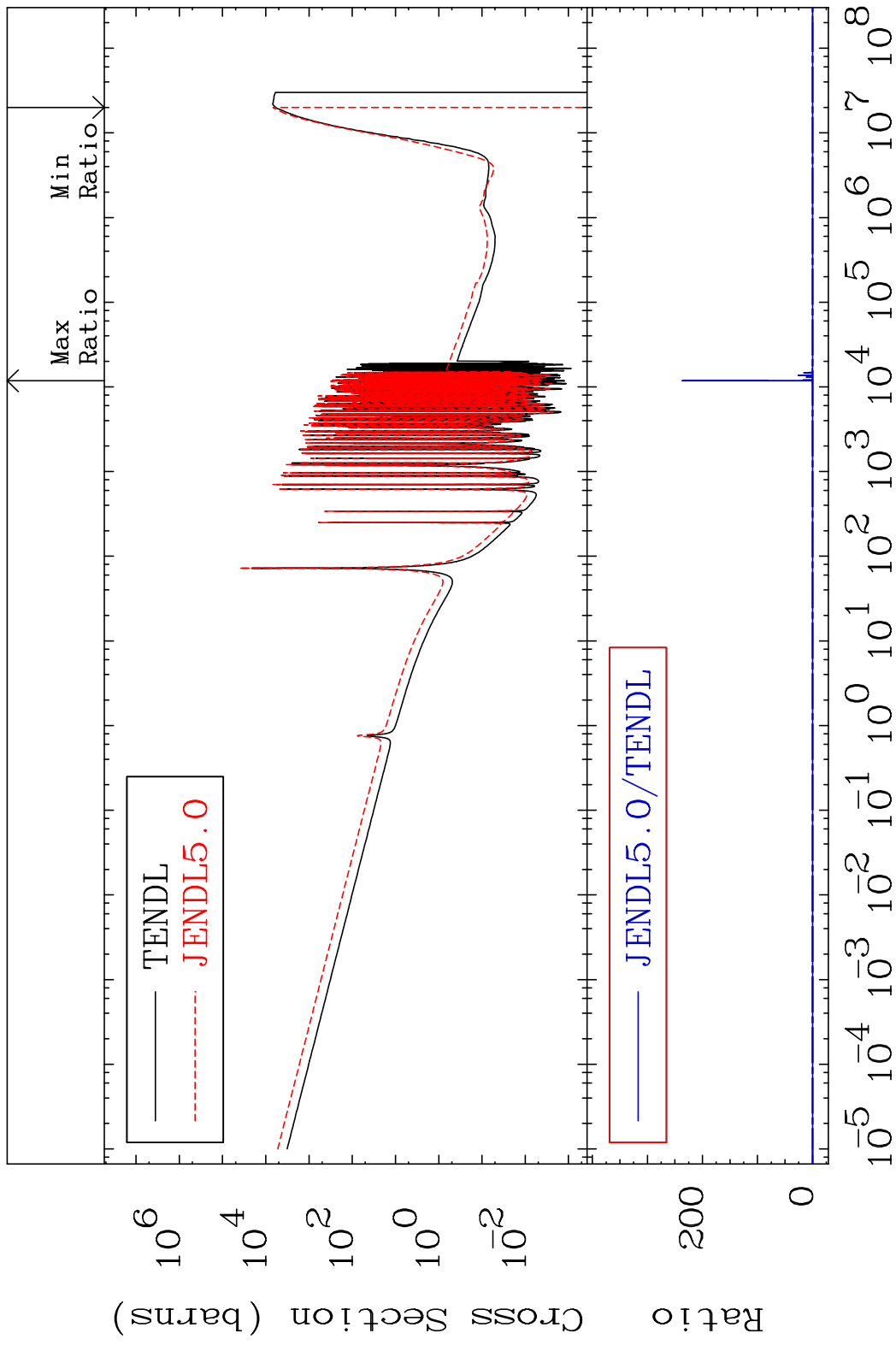


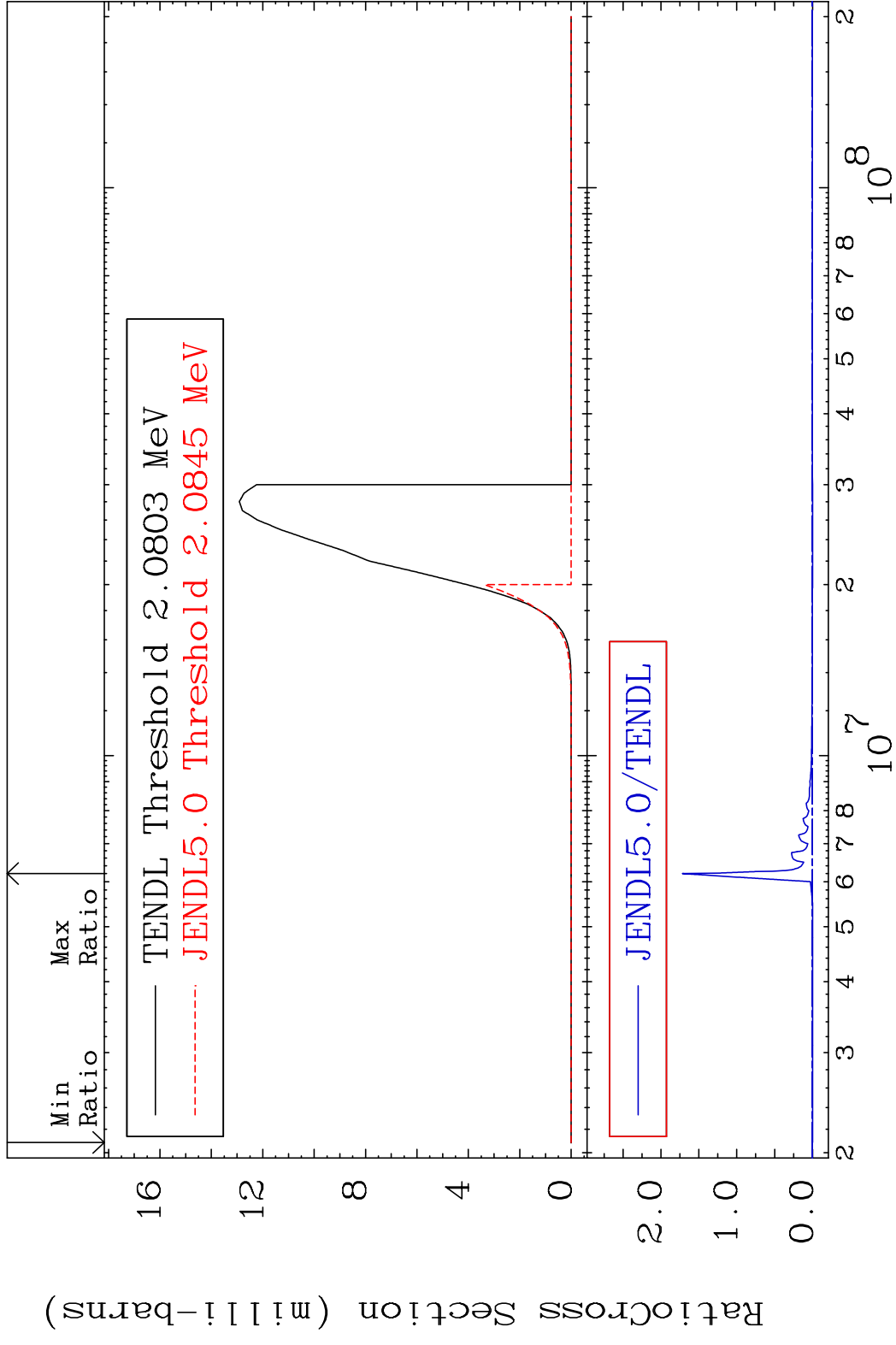
59

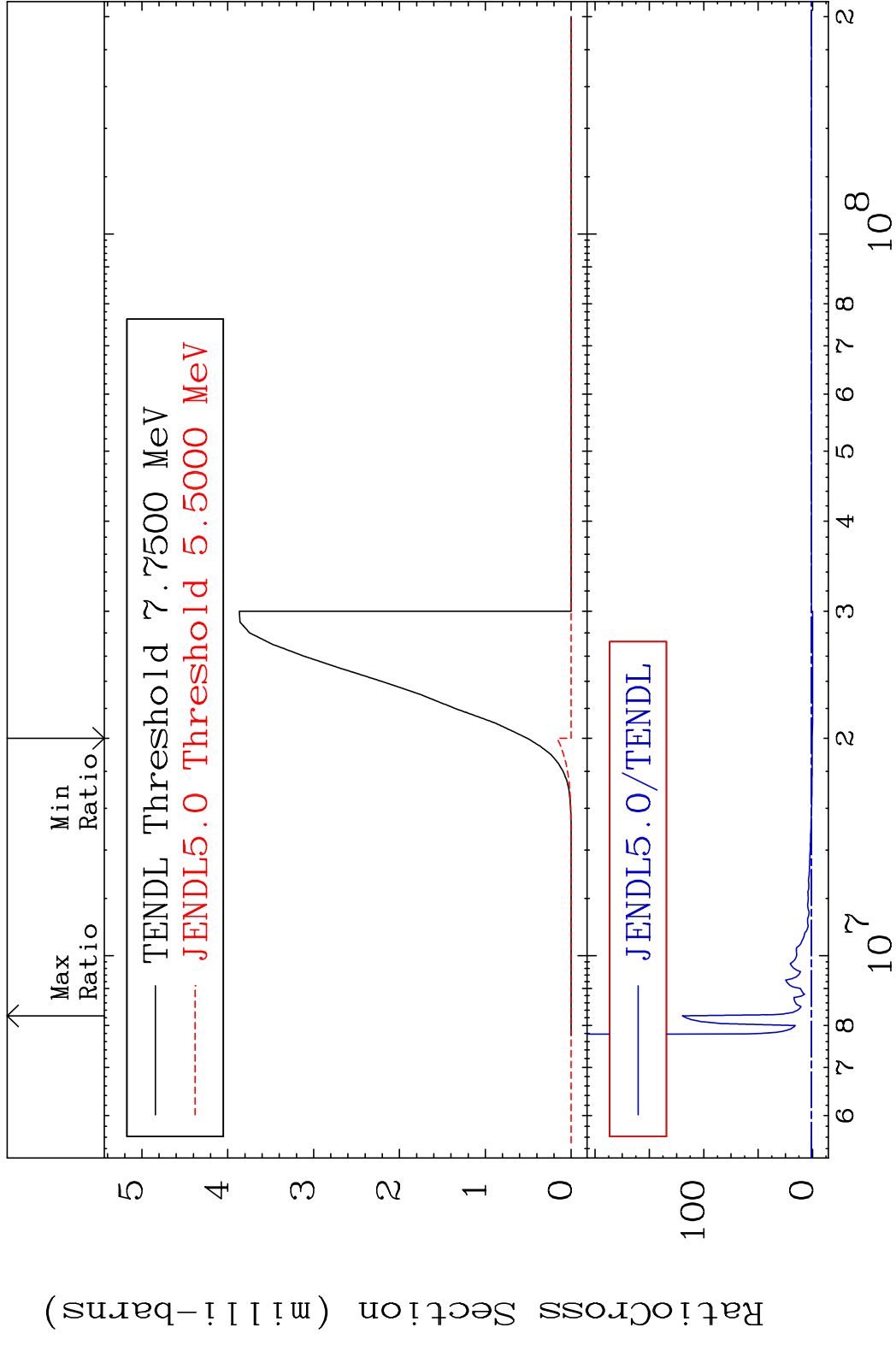
Incident Energy (eV)

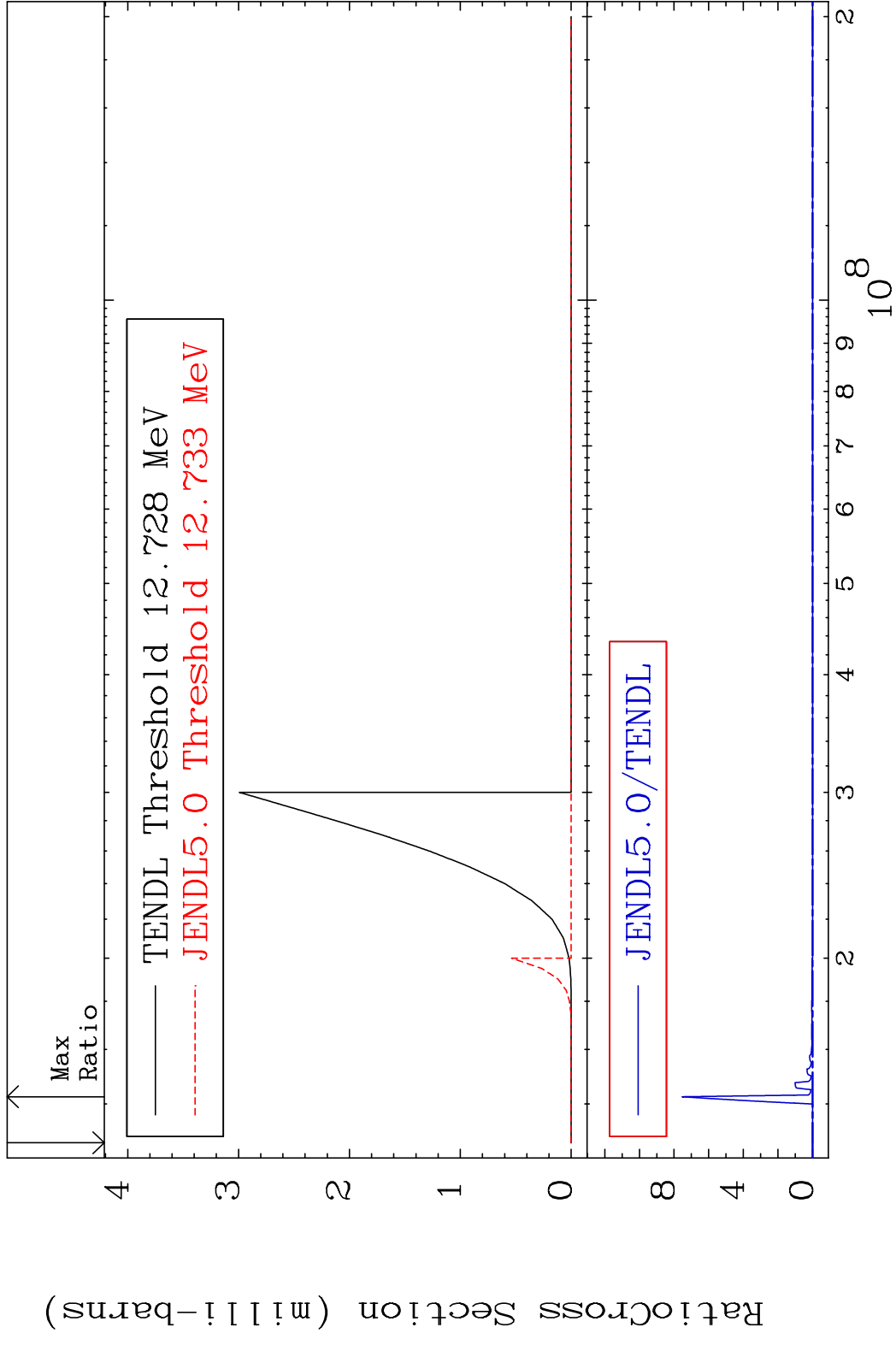
57-La-139

MAT 5728 Dpa disappearance (mt102 -120) 57-La-139  
 Cross Section -100.0 To 9999. %

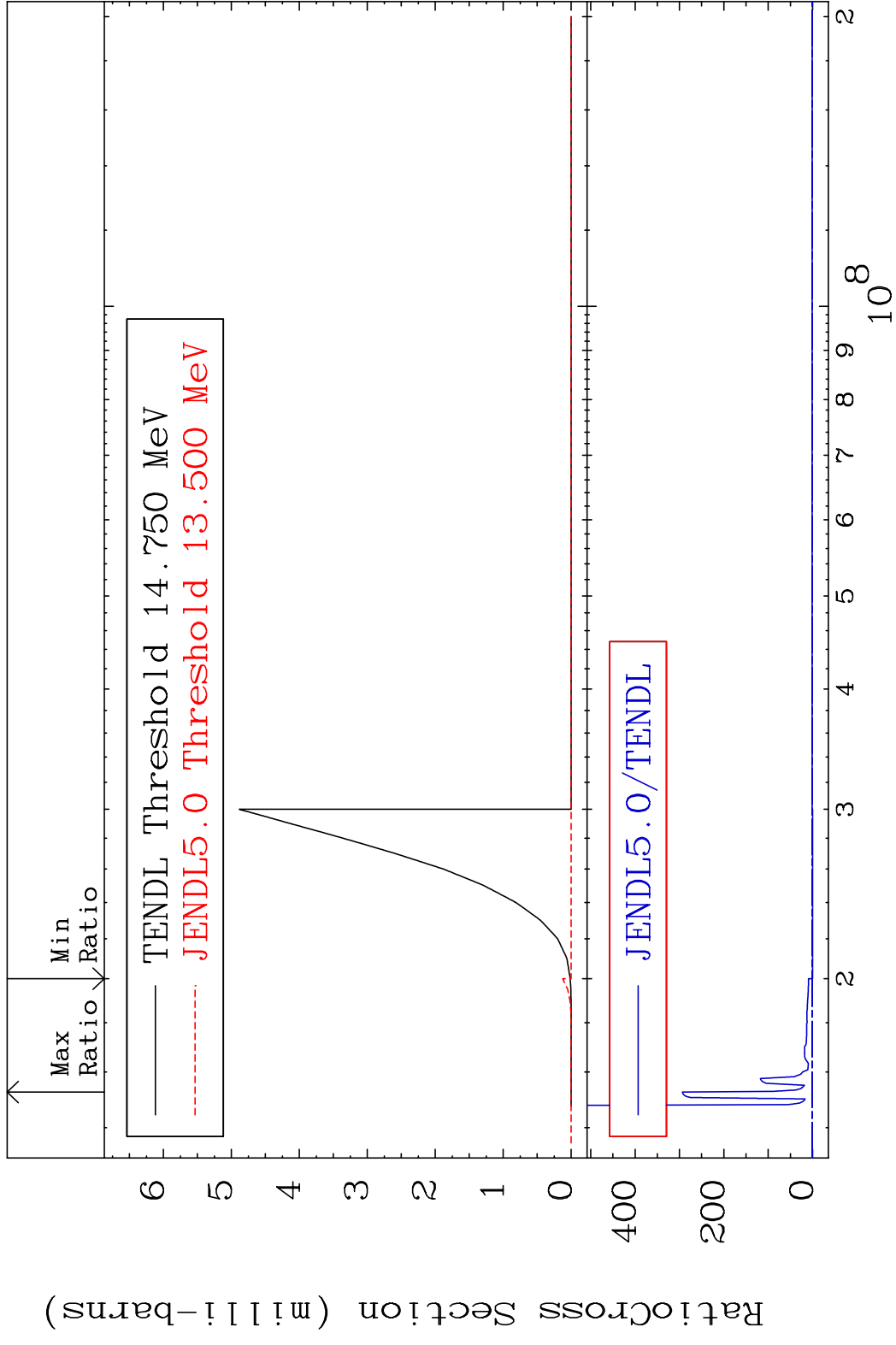




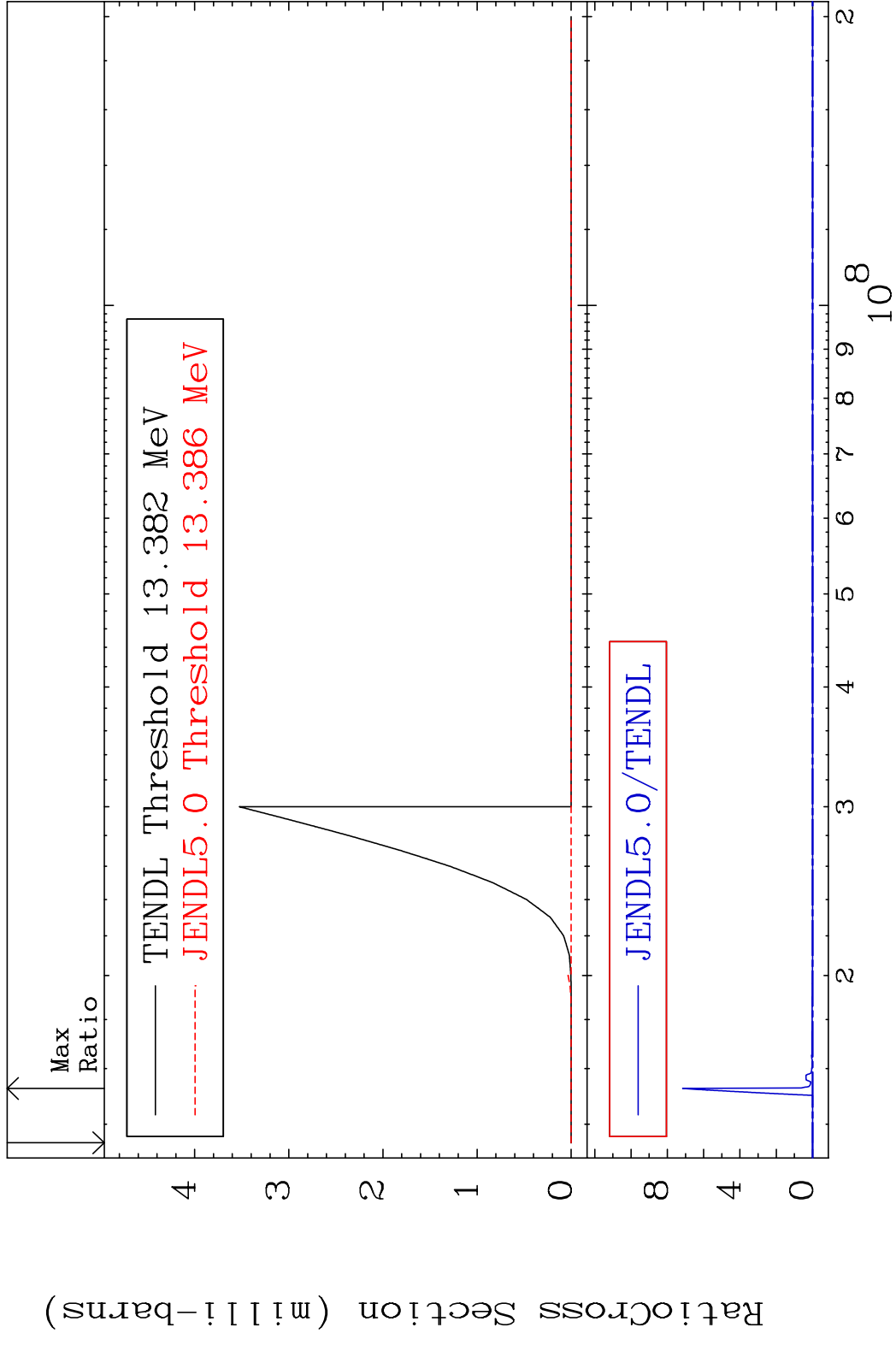


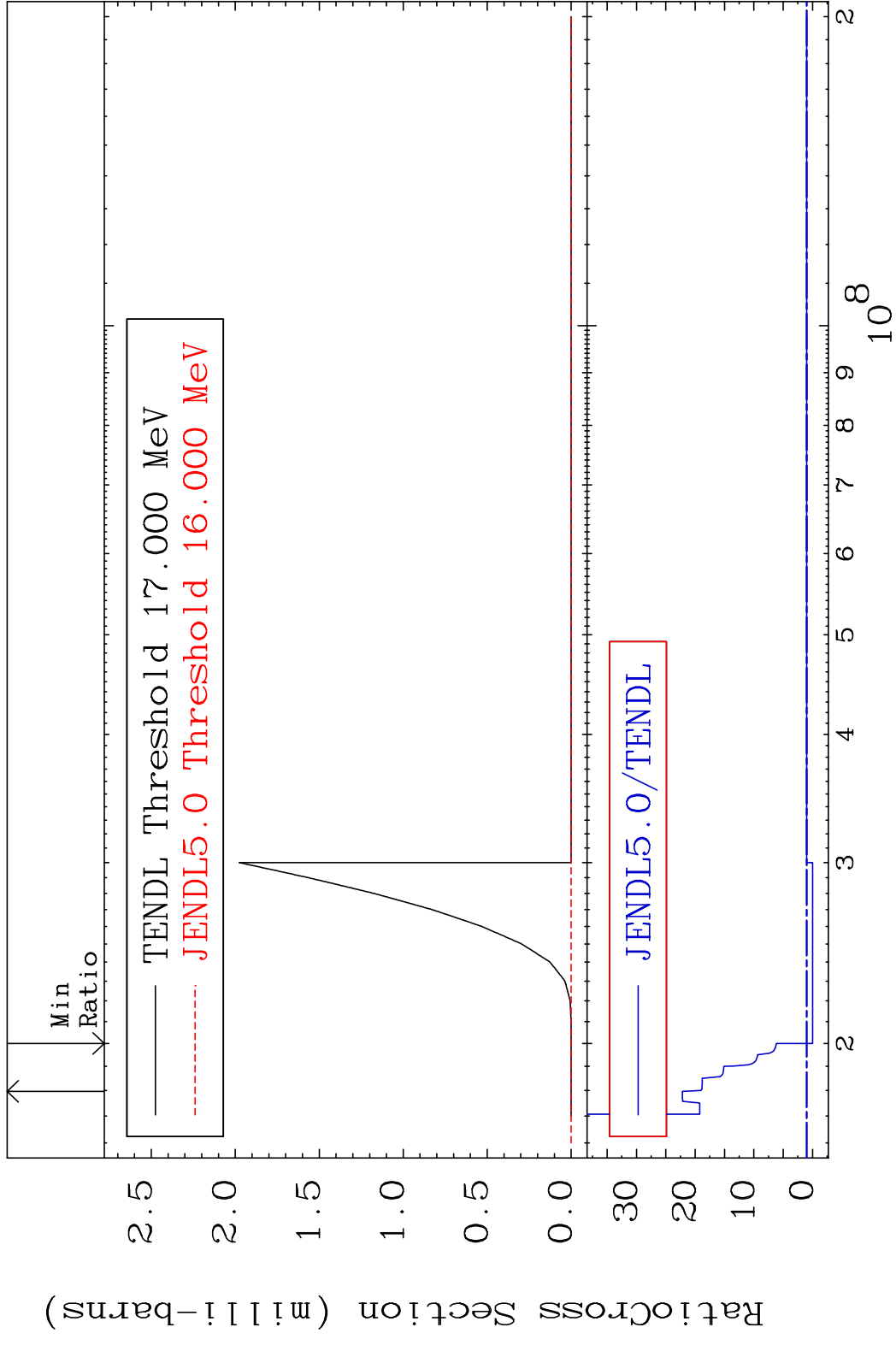


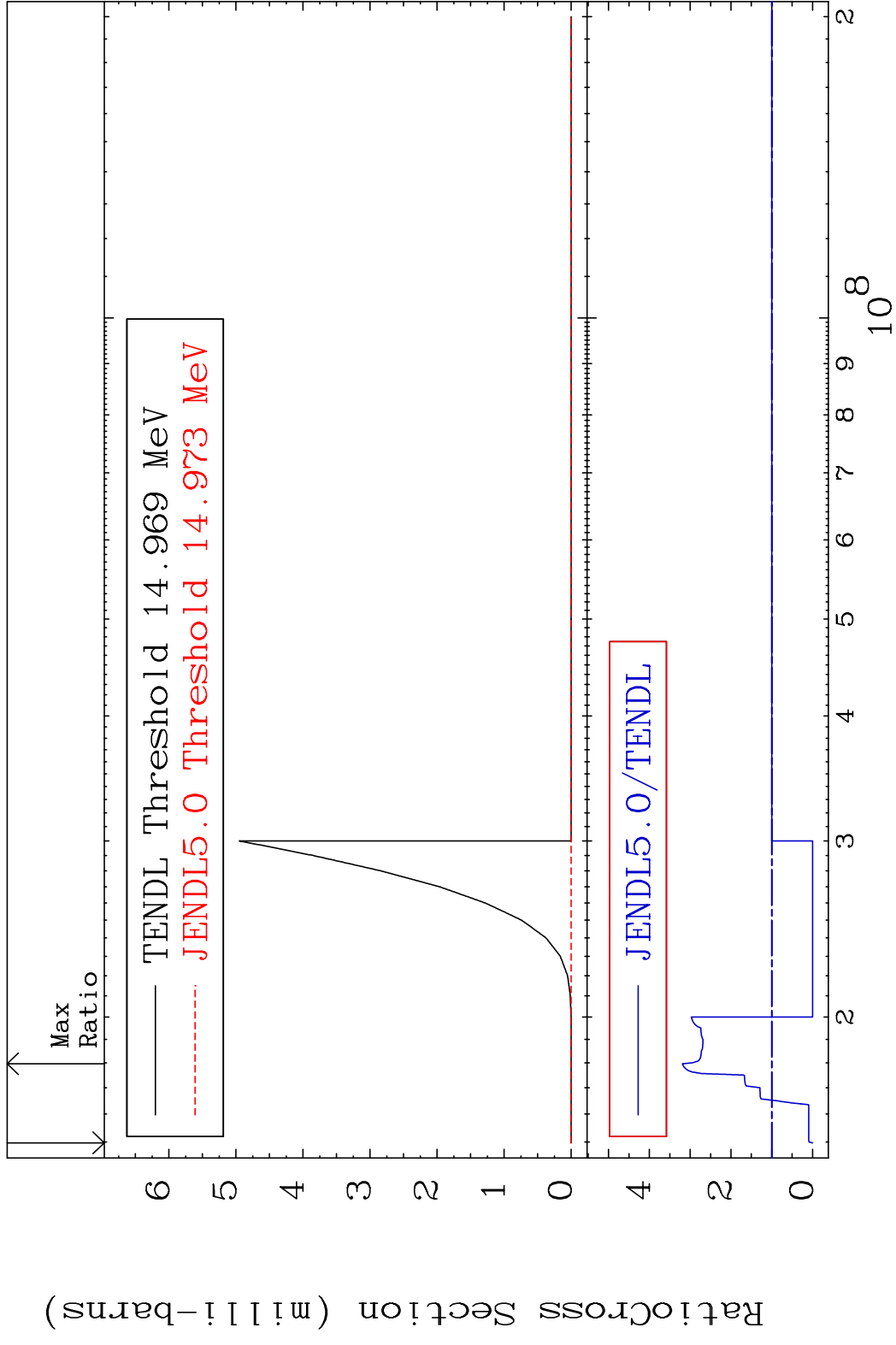


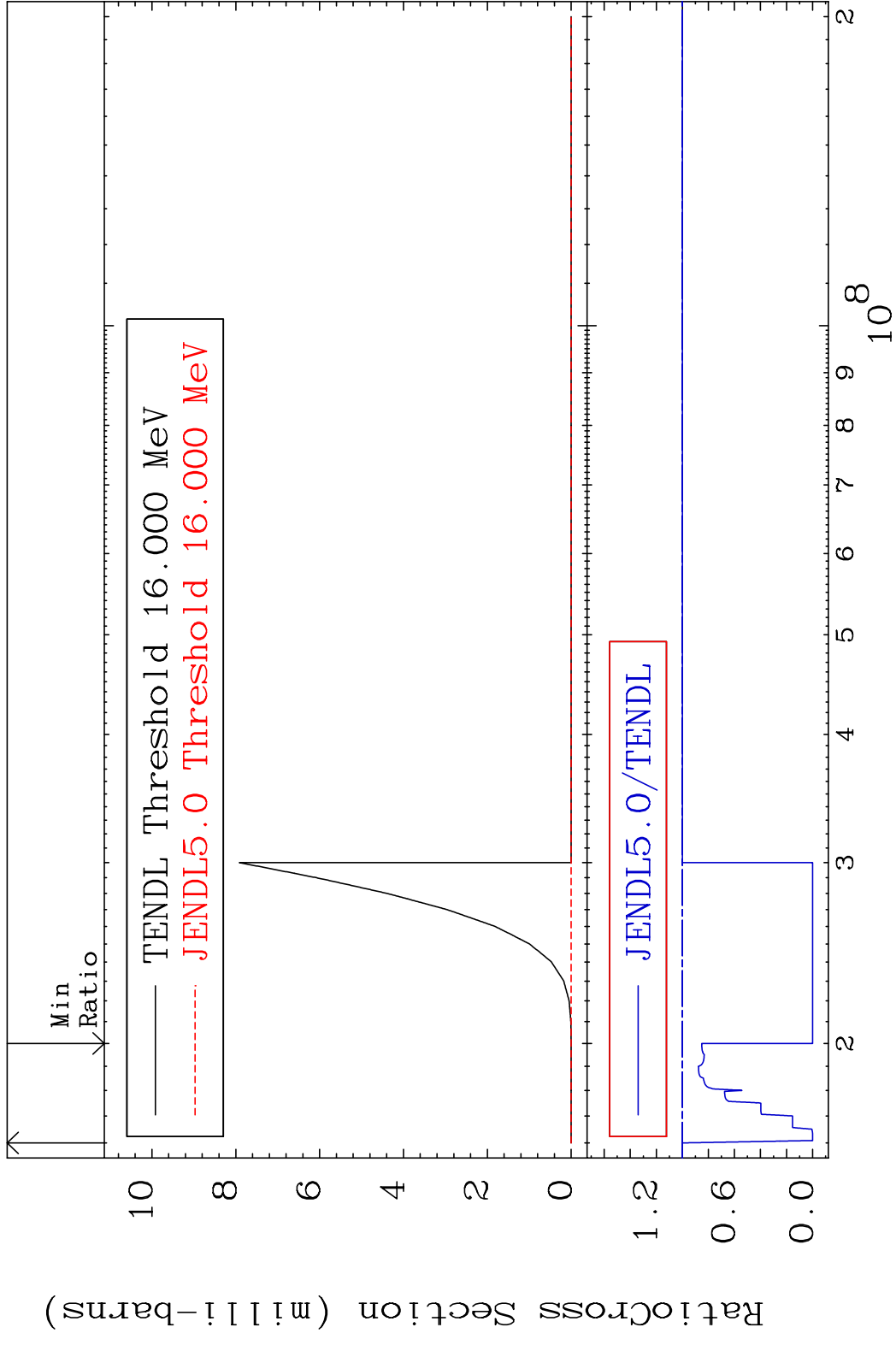


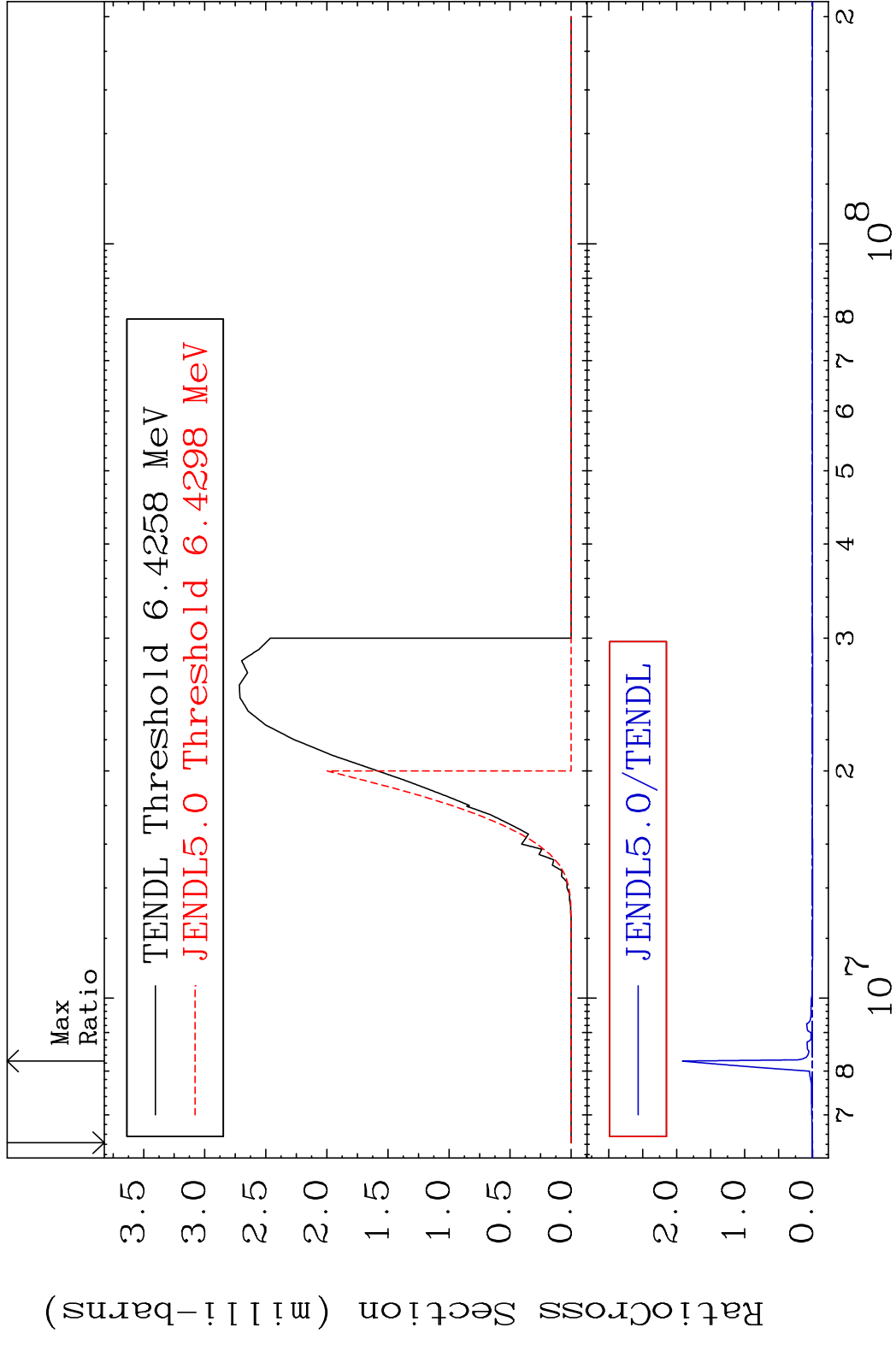
MAT 5728 (n, n') t:56-Ba-136g 57-La-139  
 Radionuclide Production Cross Section Ratio



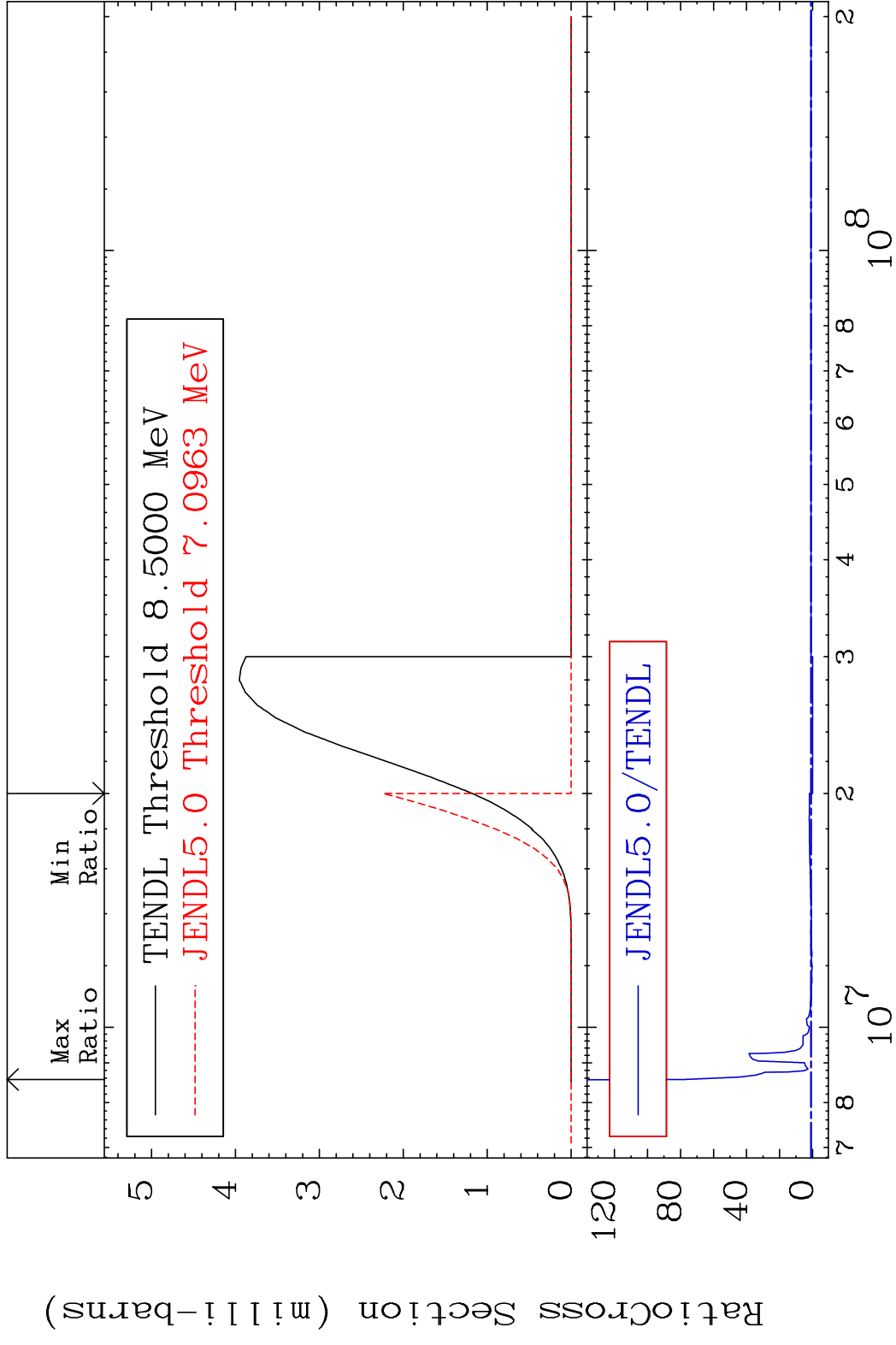








MAT 5728 (n, t):56-Ba-137m2 57-La-139  
 Radionuclide Production Cross Section 180.01 dth 7789. %



70 Incident Energy (eV) 57-La-139