

Program Complot  
(Version 2021-1)

by

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Press Mouse Button to Start

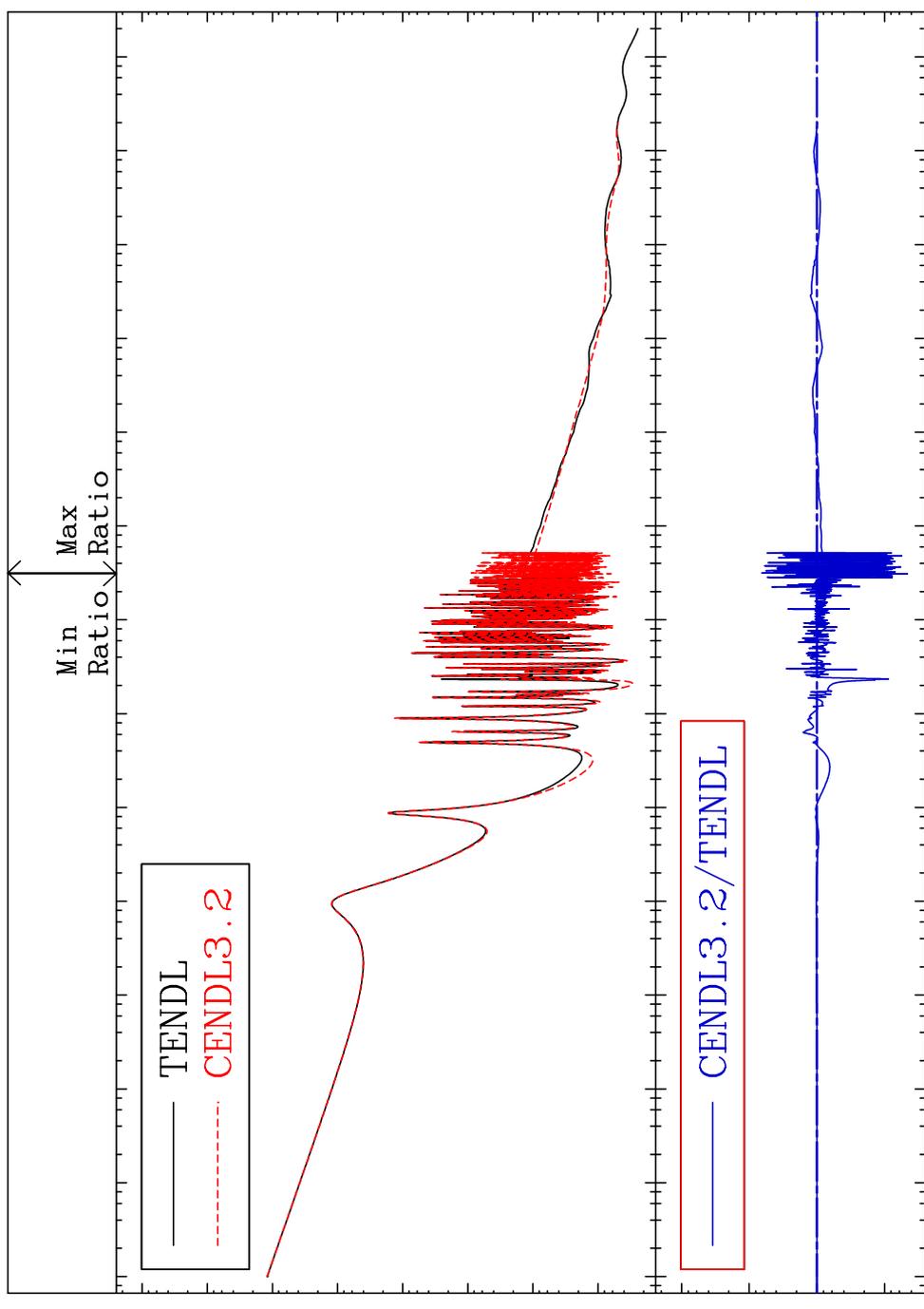
MAT 6240

Total

62-Sm-149

Cross Section

-95.43 To 545.9 %



1

Incident Energy (eV)

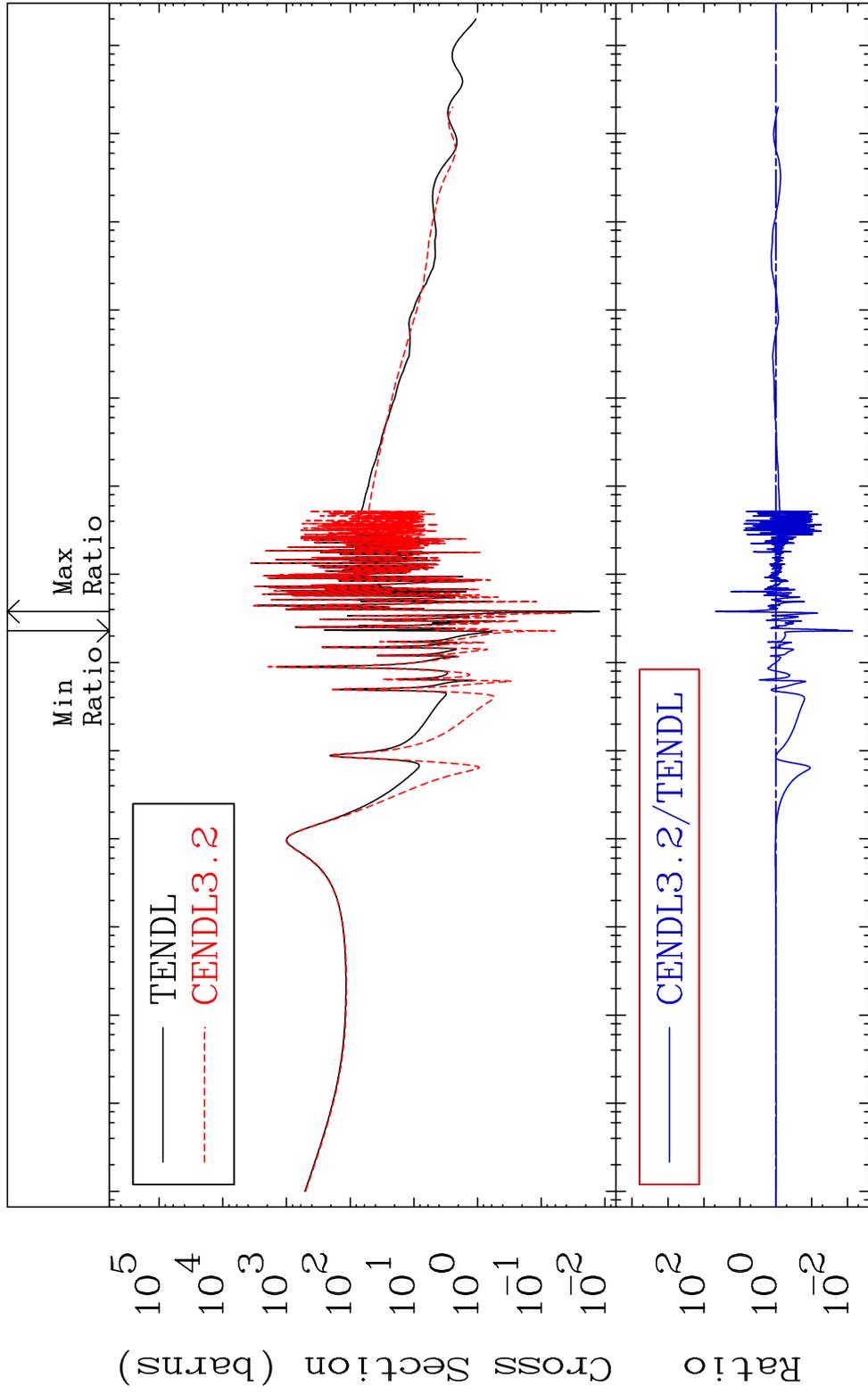
62-Sm-149

MAT 6240

Elastic

62-Sm-149

Cross Section -99.27 To 4538. %



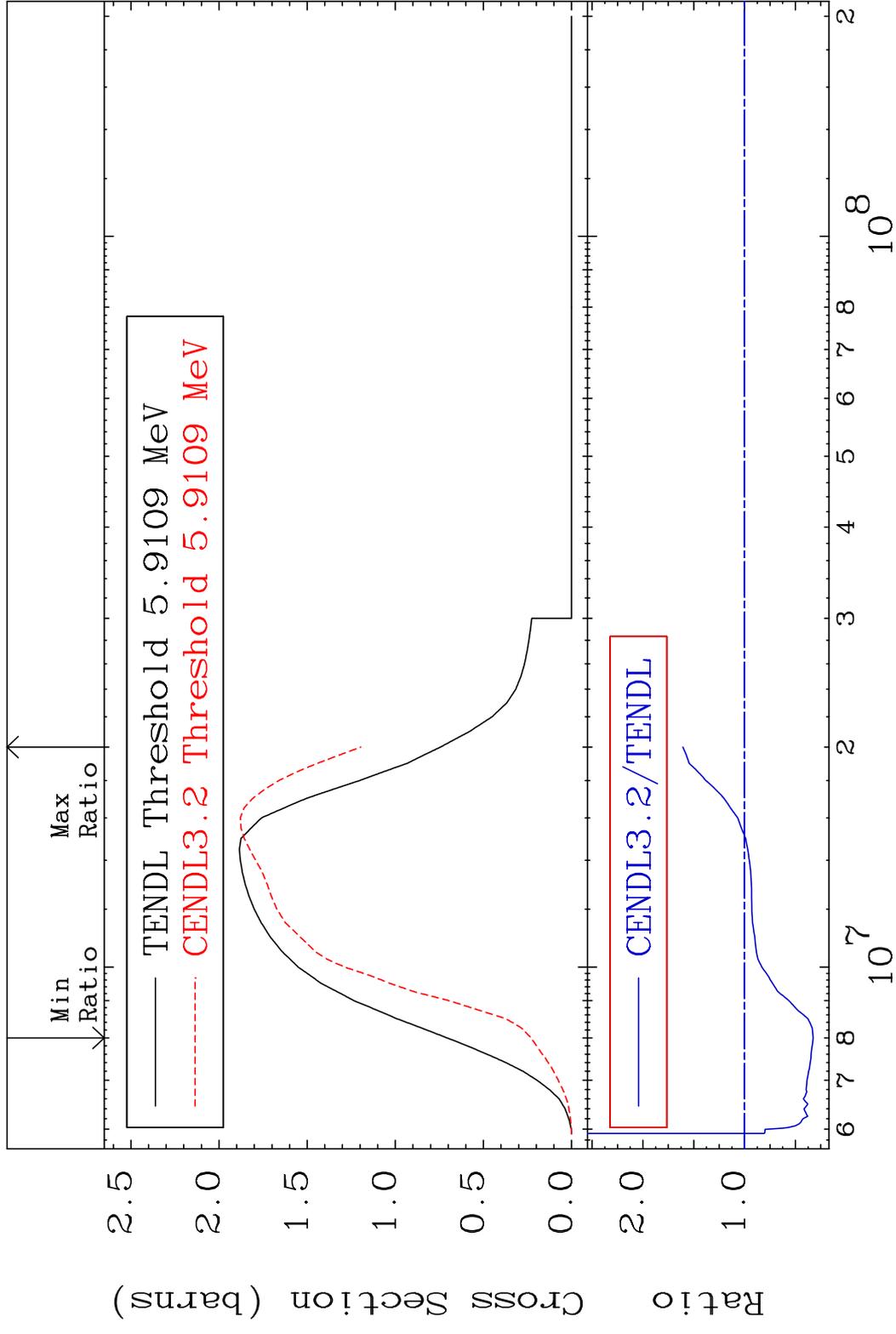
2

Incident Energy (eV)

62-Sm-149

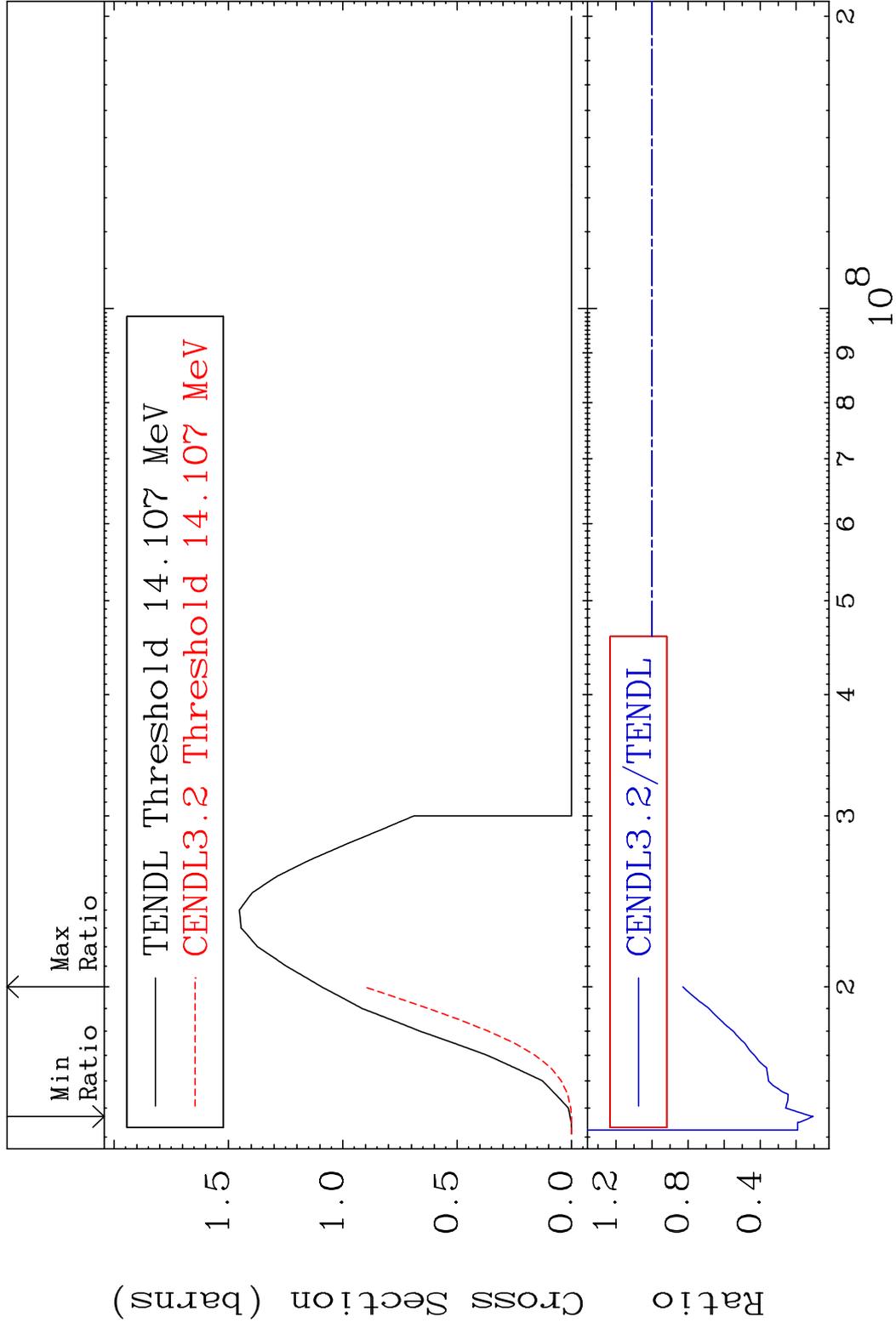


MAT 6240 (n,2n) 62-Sm-149  
 Cross Section -67.46 To 60.75 %



4 Incident Energy (eV) 62-Sm-149

MAT 6240 (n,3n) 62-Sm-149  
 Cross Section -89.41 To -17.10%

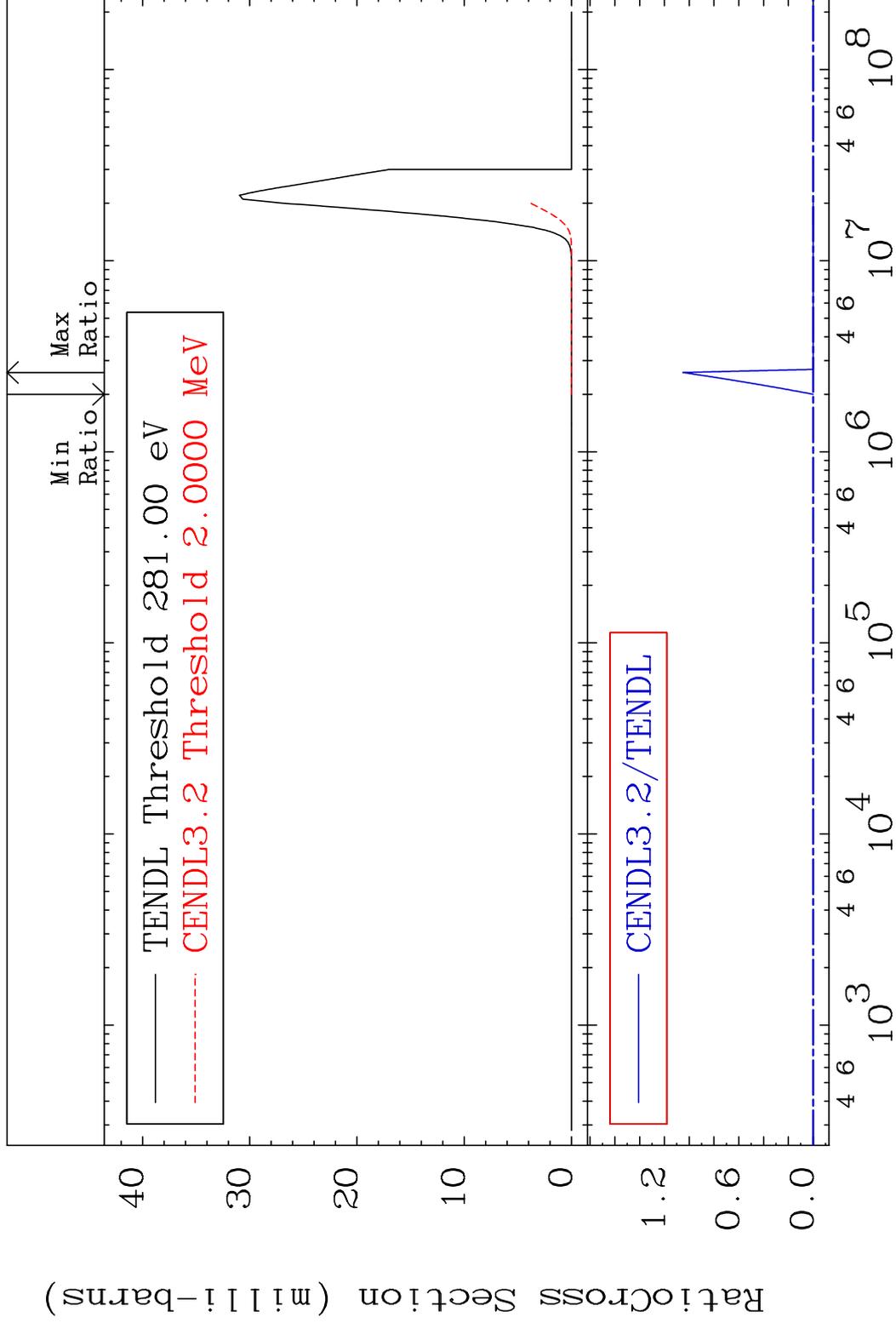


MAT 6240

(n, n')  $\alpha$

62-Sm-149

Cross Section -100.0 To 9999. %

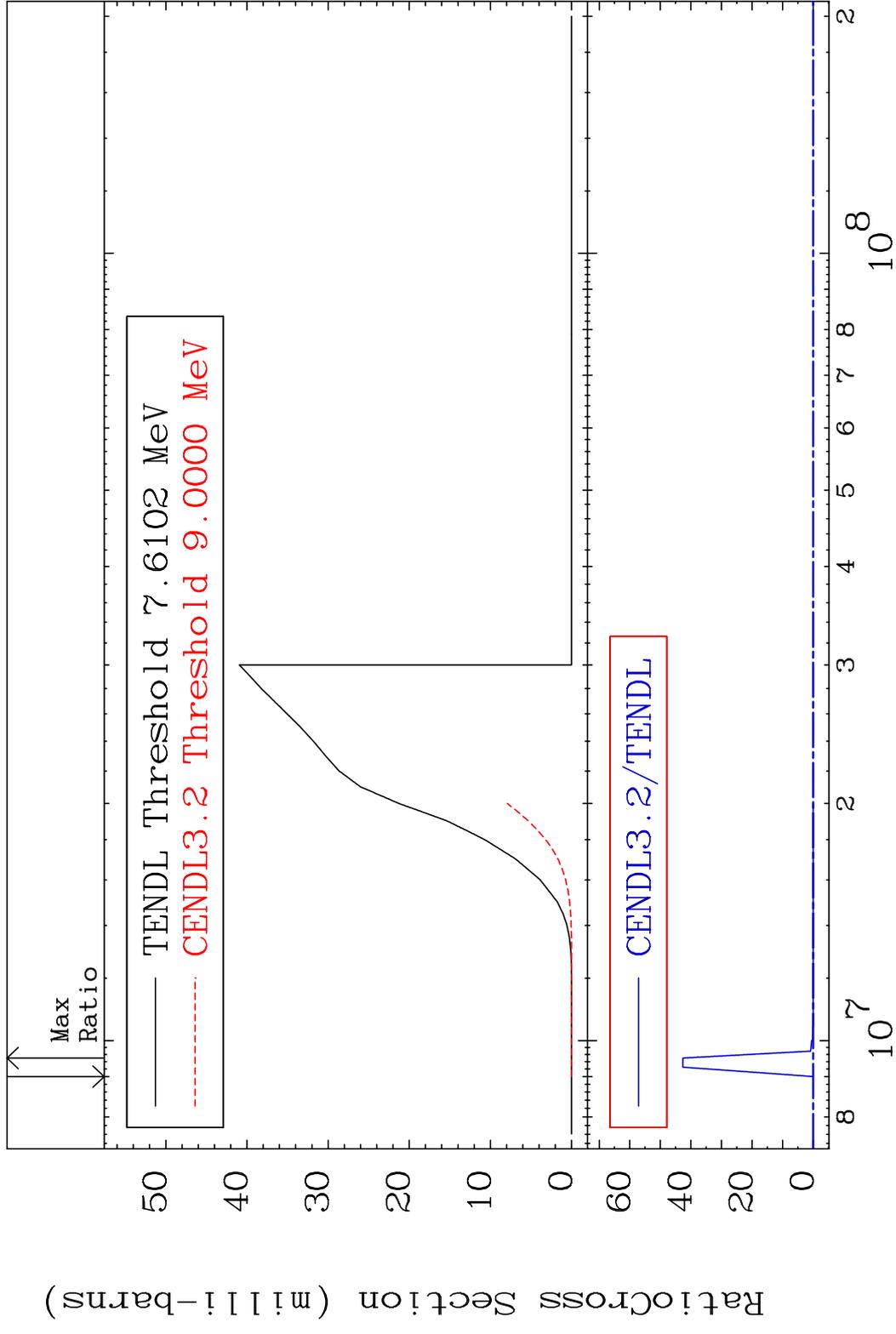


6

Incident Energy (eV)

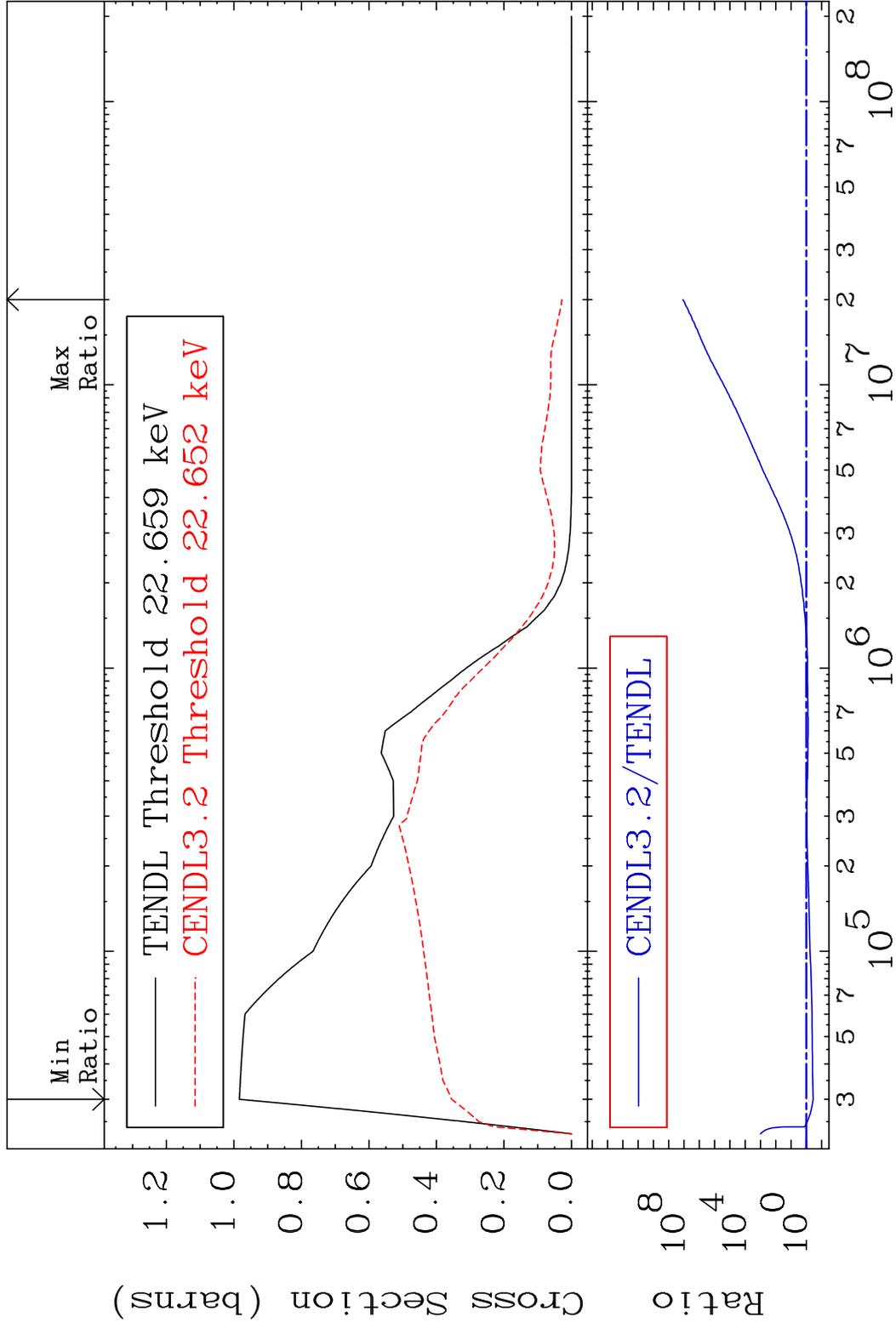
62-Sm-149

MAT 6240 (n, n') p 62-Sm-149  
 Cross Section -100.0 To 9999. %

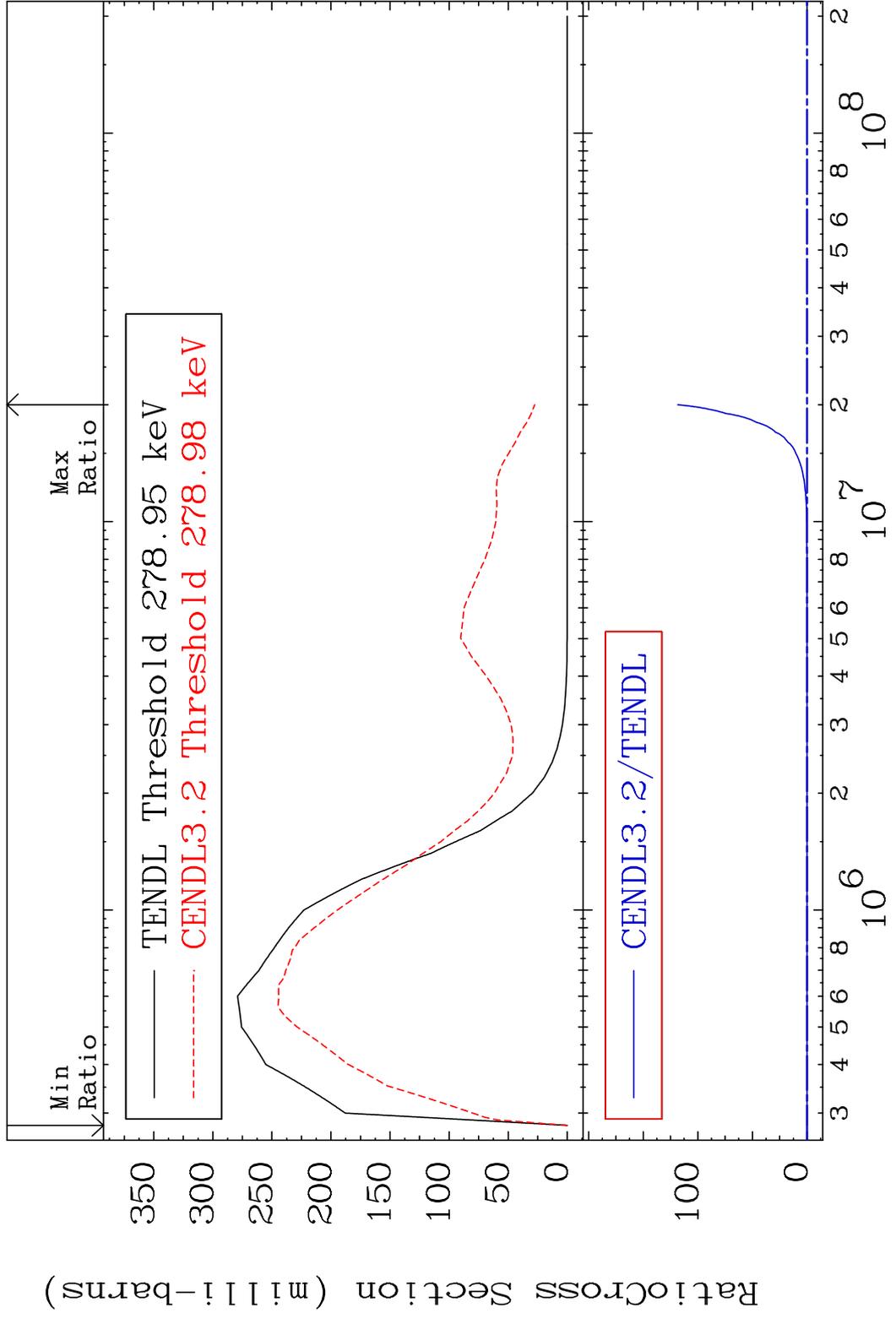


7 Incident Energy (eV) 62-Sm-149

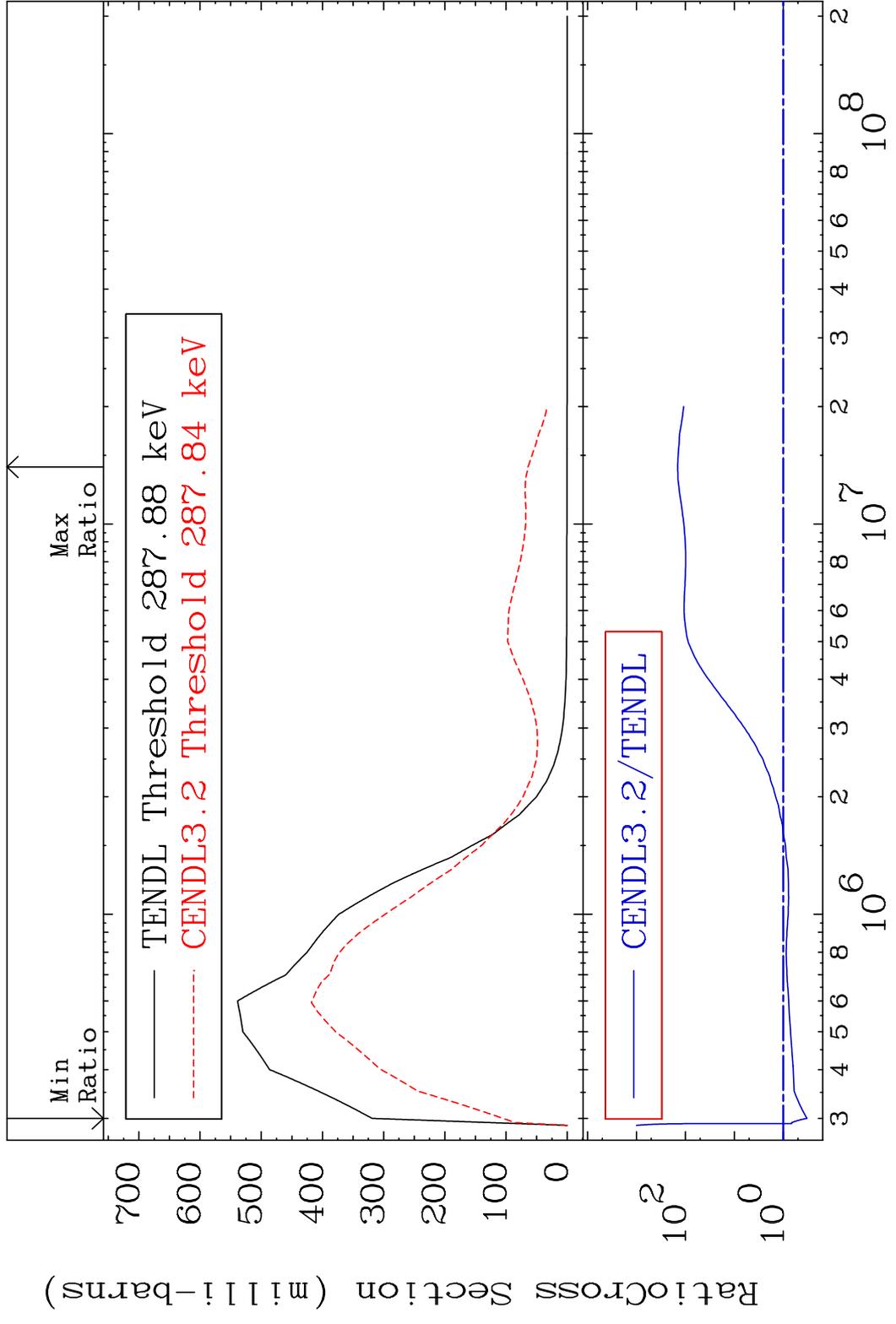
MAT 6240 MT= 51 (n,n') Level 62-Sm-149  
 Cross Section -63.90 To 9999. %



MAT 6240 MT= 52 (n,n') Level 62-Sm-149  
 Cross Section -100.0 To 9999. %

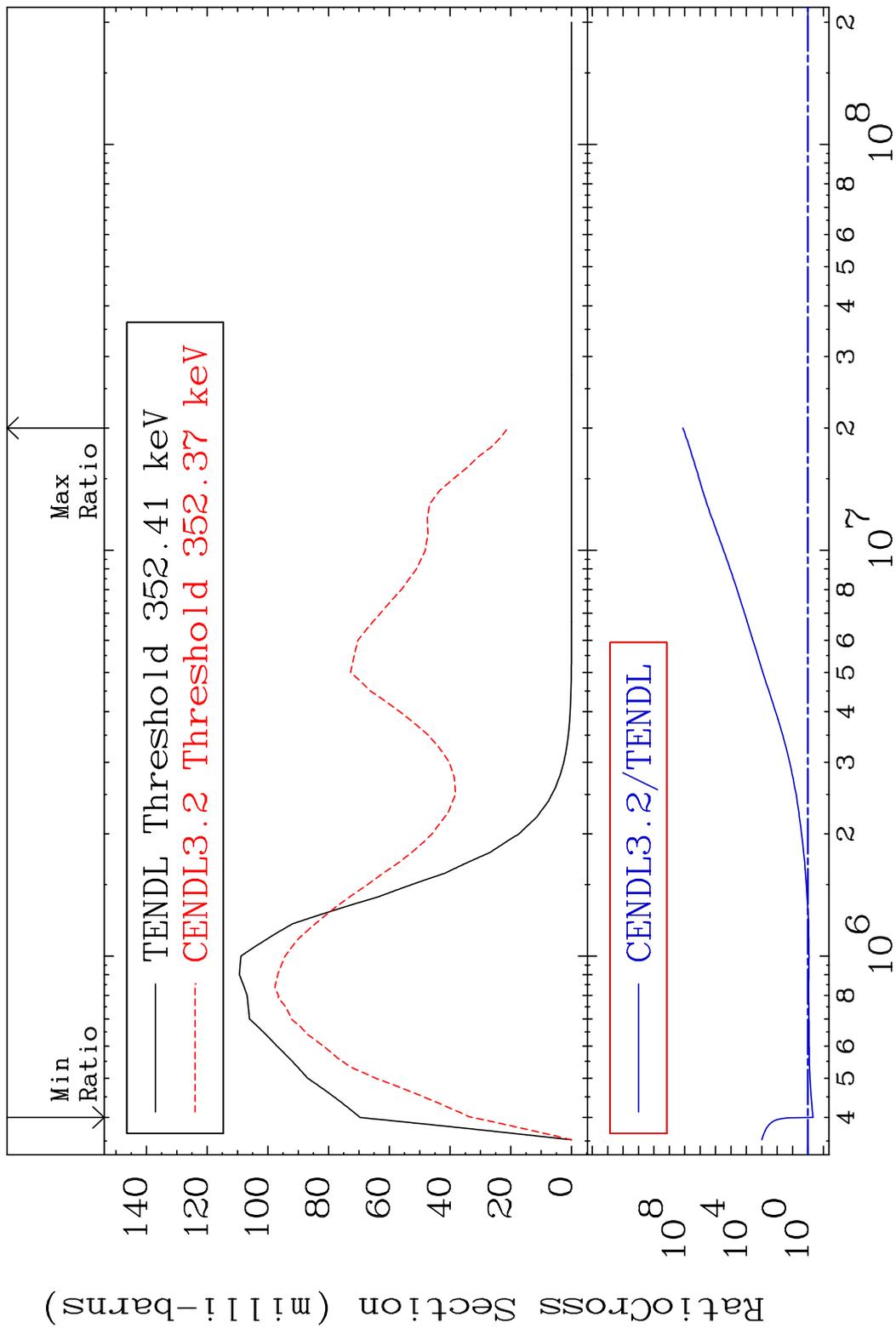


MAT 6240 MT= 53 (n, n') Level 62-Sm-149  
 Cross Section -67.10 To 9999. %

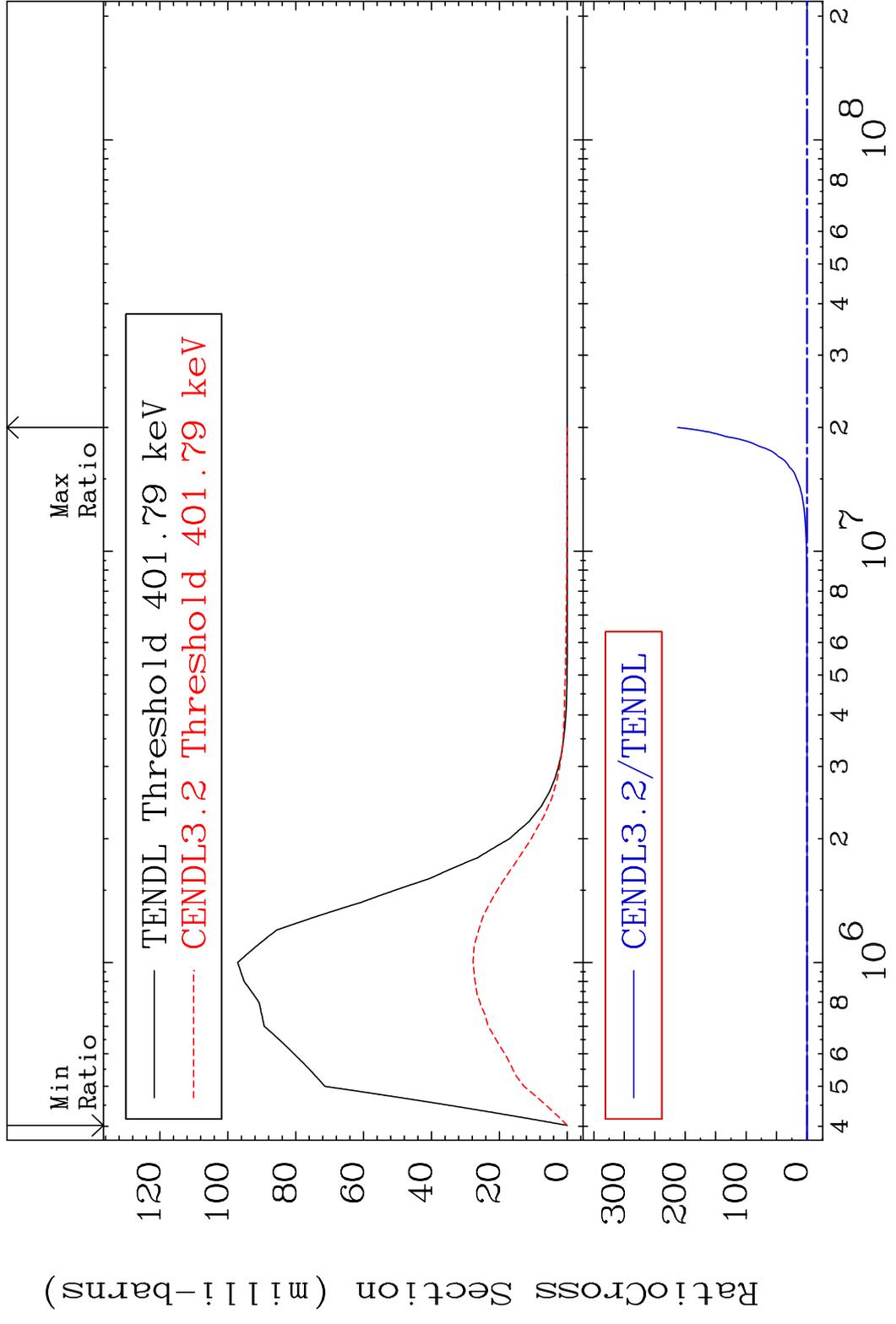


10 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 54 (n, n') Level 62-Sm-149  
 Cross Section -53.35 To 9999. %

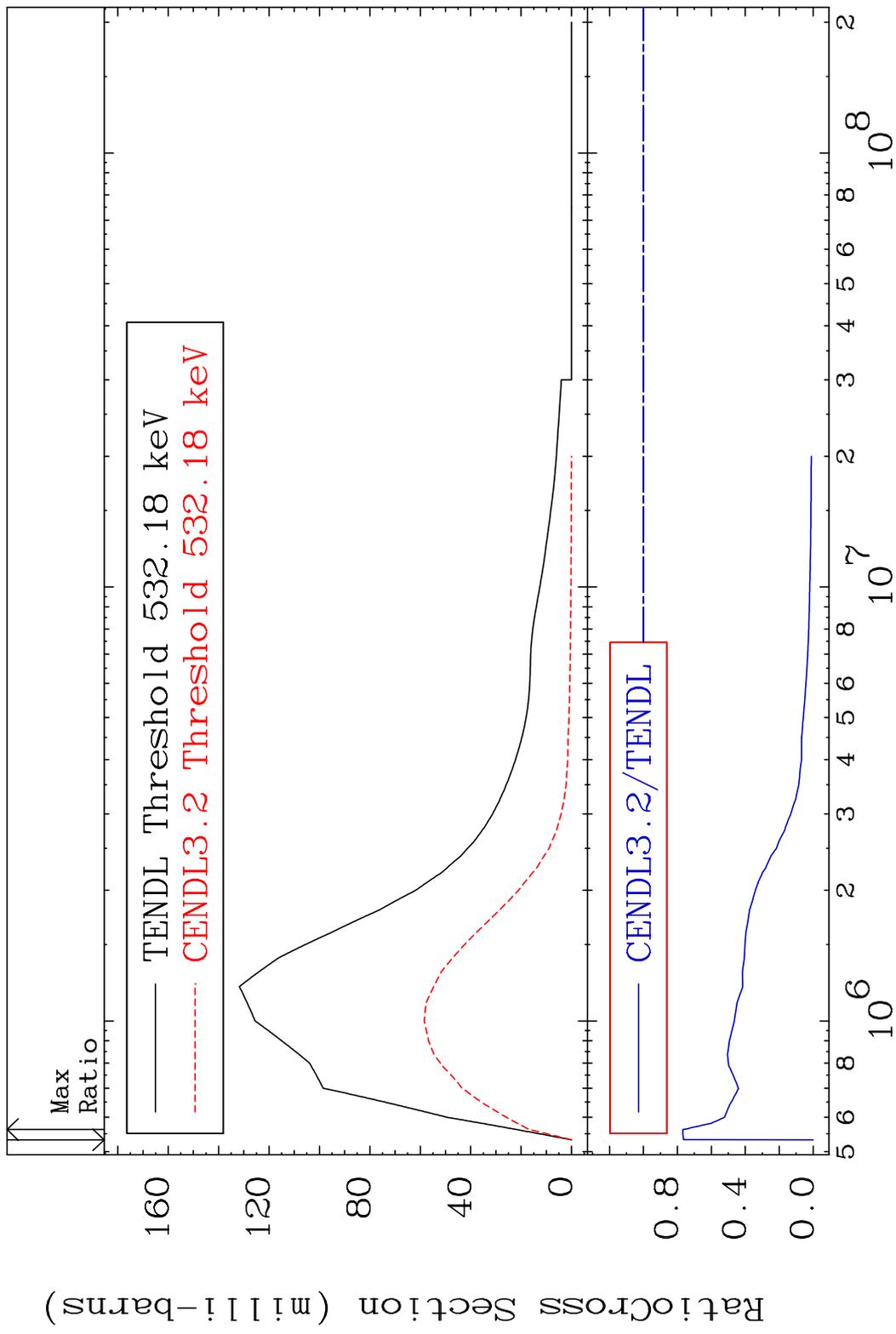


MAT 6240 MT= 55 (n,n') Level 62-Sm-149  
 Cross Section -100.0 To 9999. %

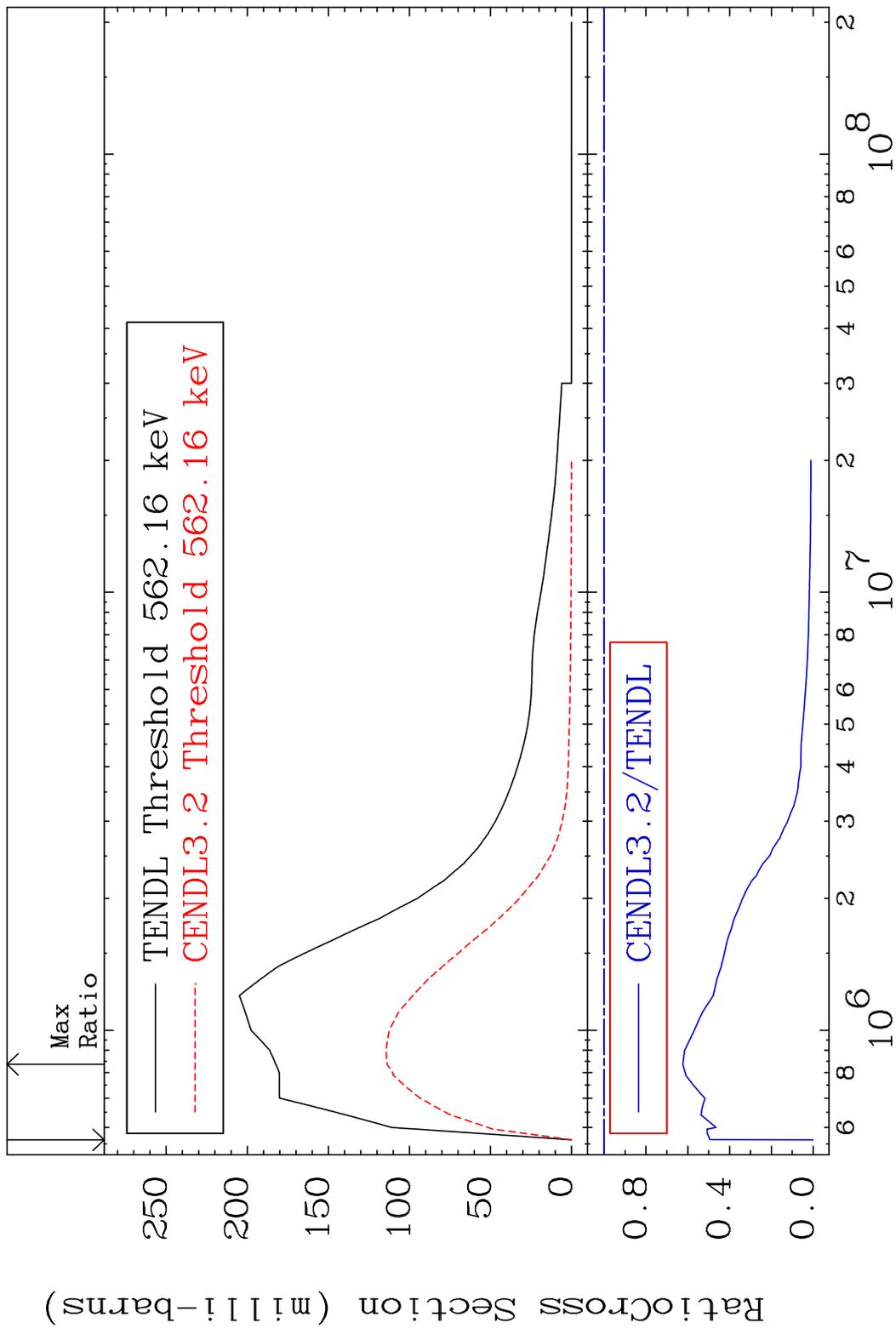


12 Incident Energy (eV) 62-Sm-149

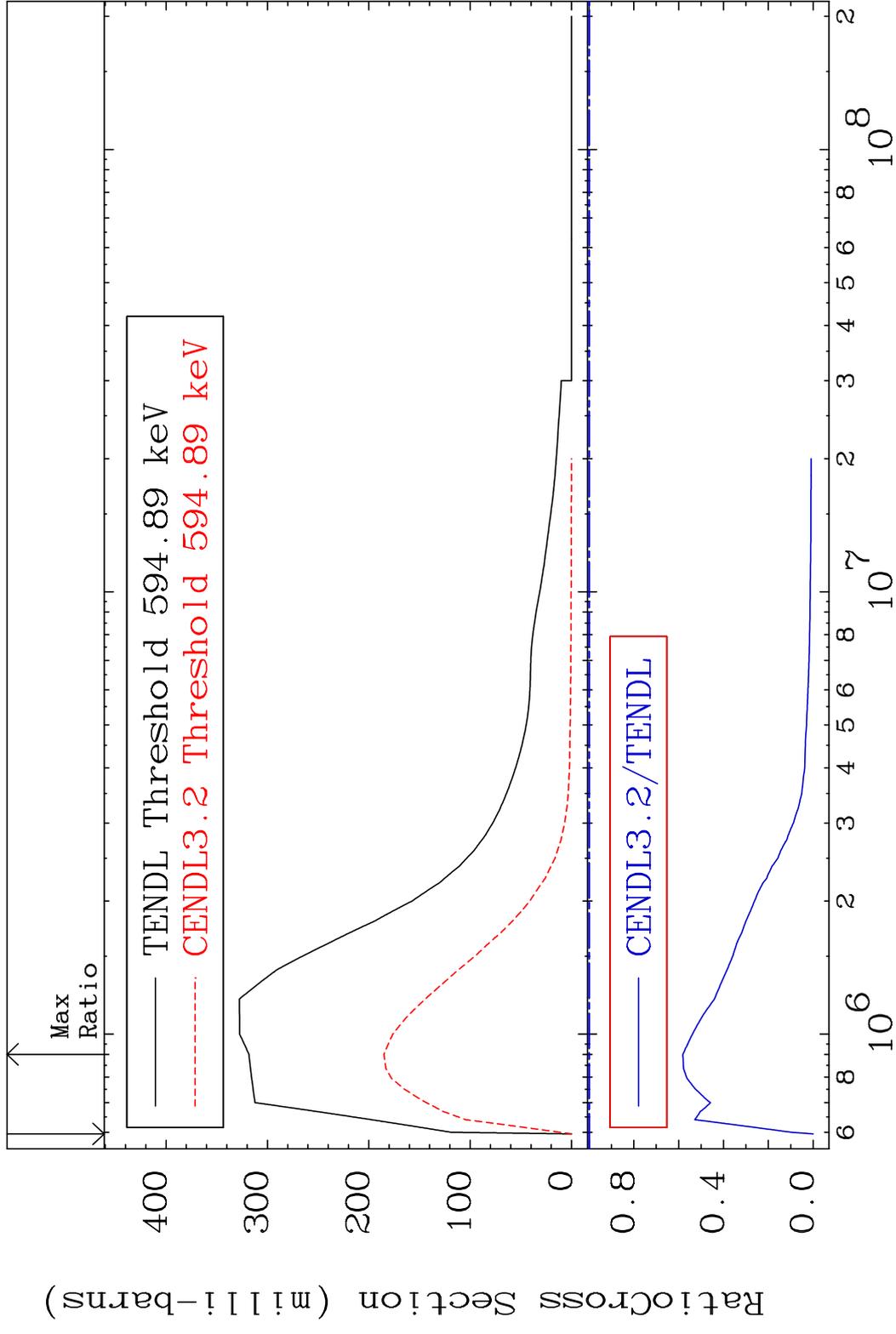
MAT 6240 MT= 56 (n,n') Level 62-Sm-149  
 Cross Section -100.0 To -23.19%



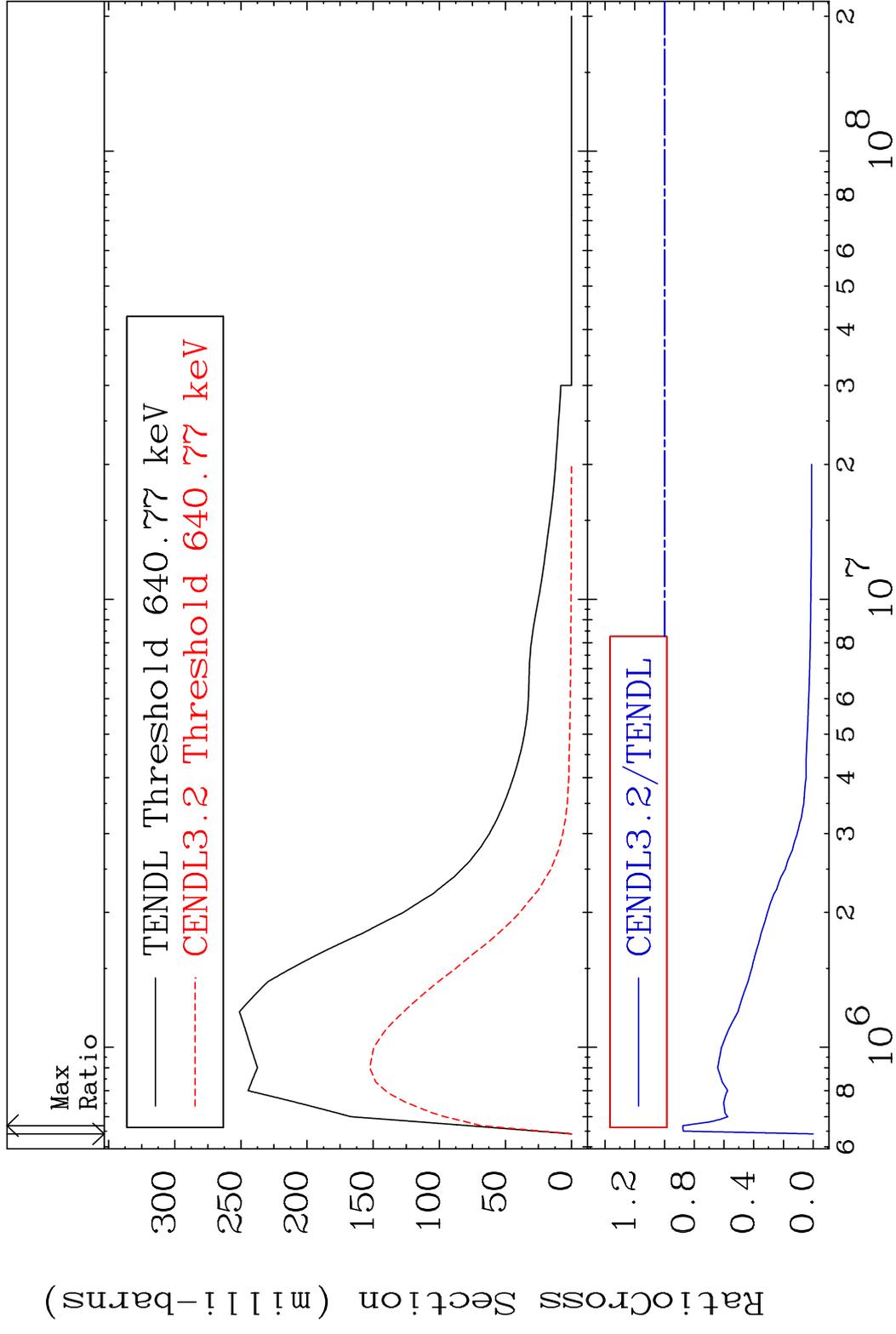
MAT 6240 MT= 57 (n,n') Level 62-Sm-149  
 Cross Section -100.0 To -37.63%



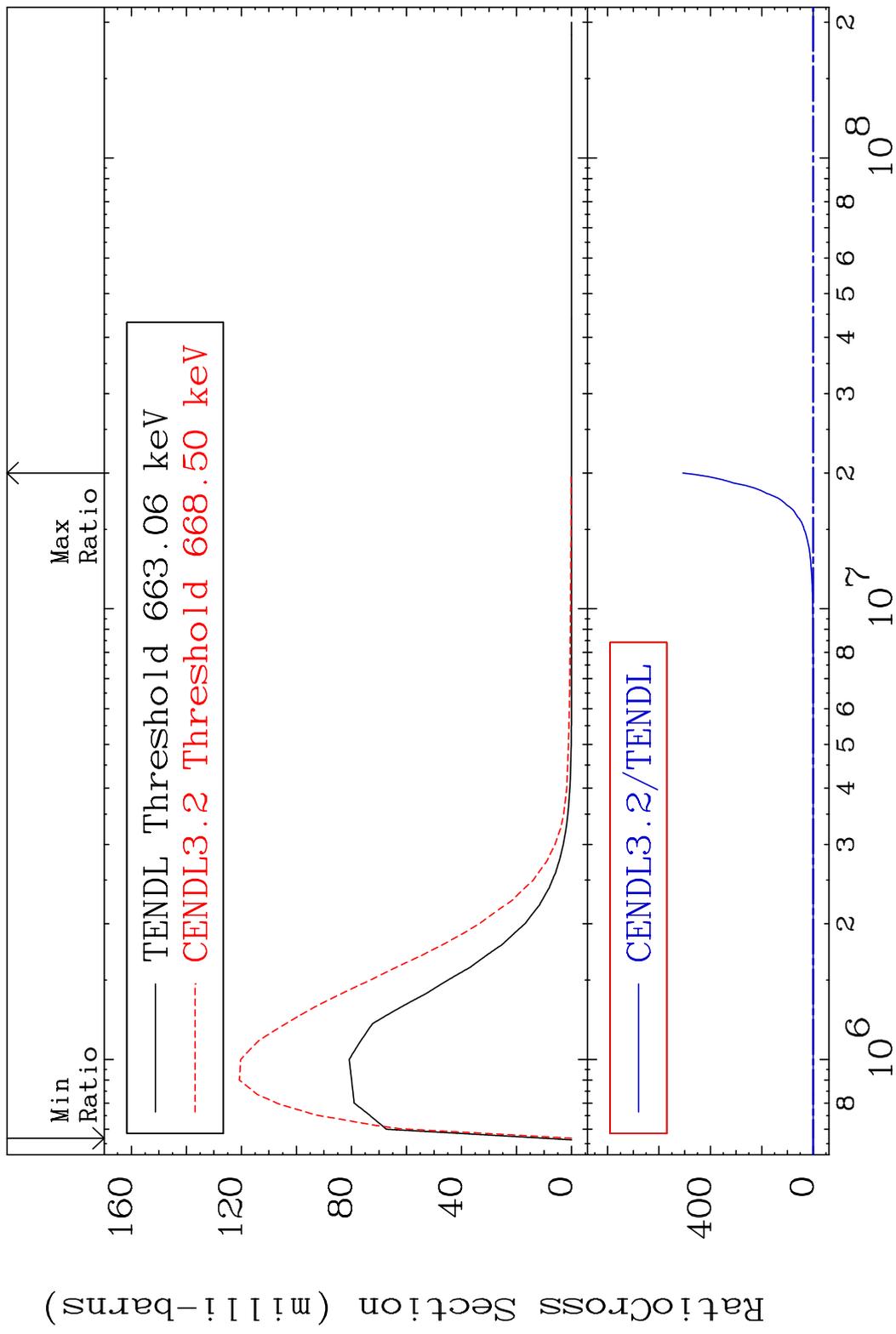
MAT 6240 MT= 58 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To -41.86%



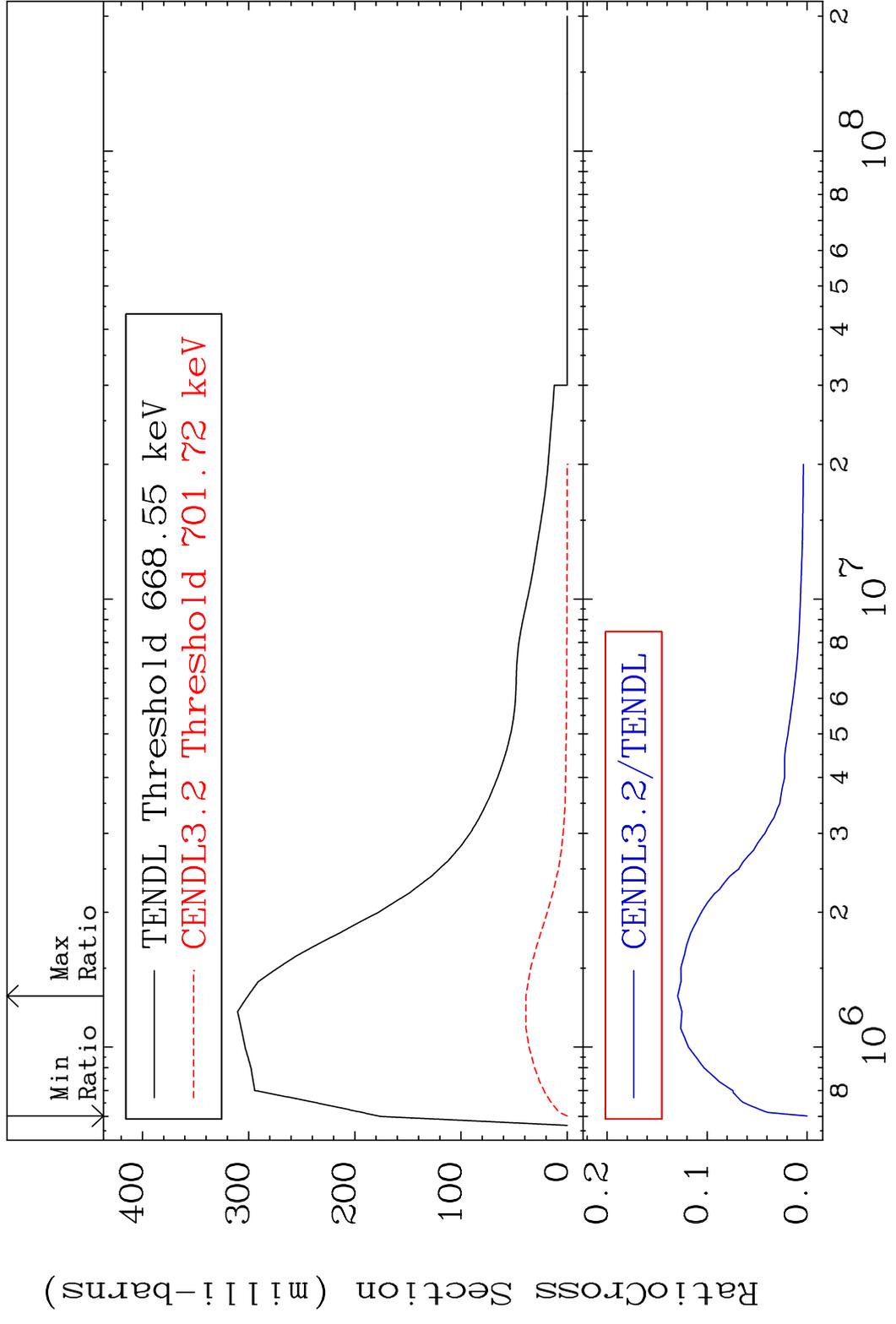
MAT 6240 MT= 59 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To -12.33%



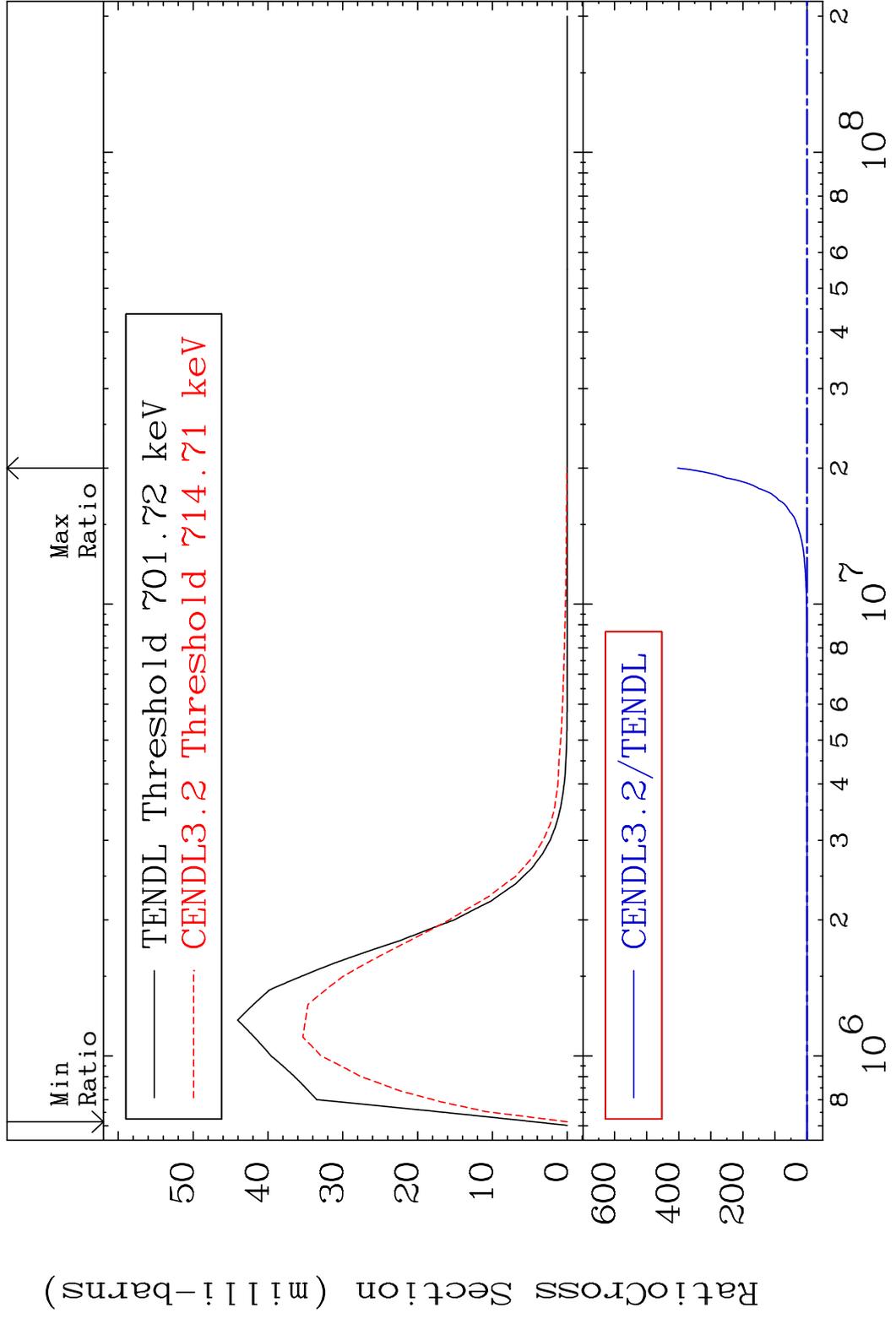
MAT 6240 MT= 60 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 9999. %



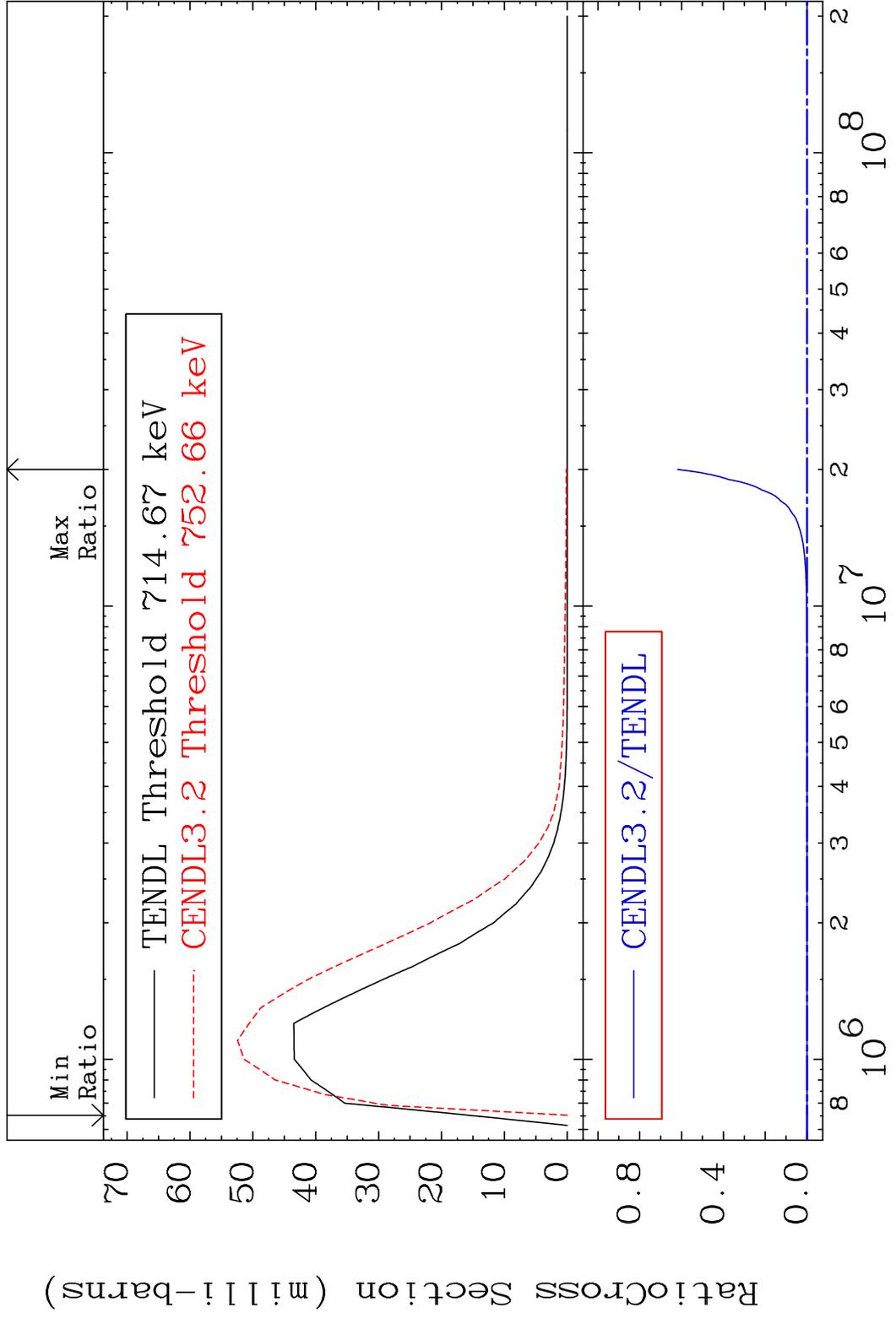
MAT 6240 MT= 61 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To -87.06%



MAT 6240 MT= 62 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 9999. %

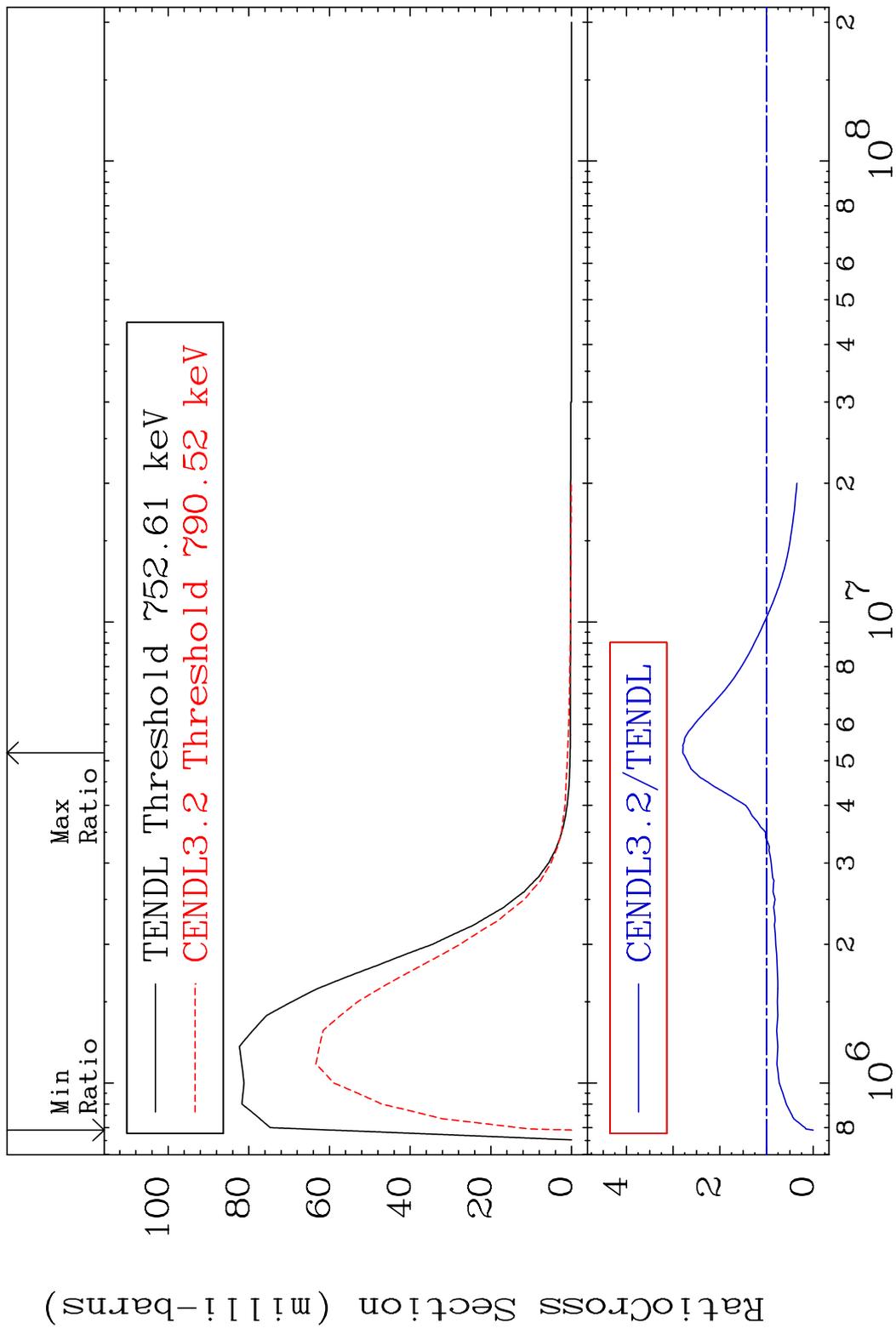


MAT 6240 MT= 63 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 9999. %

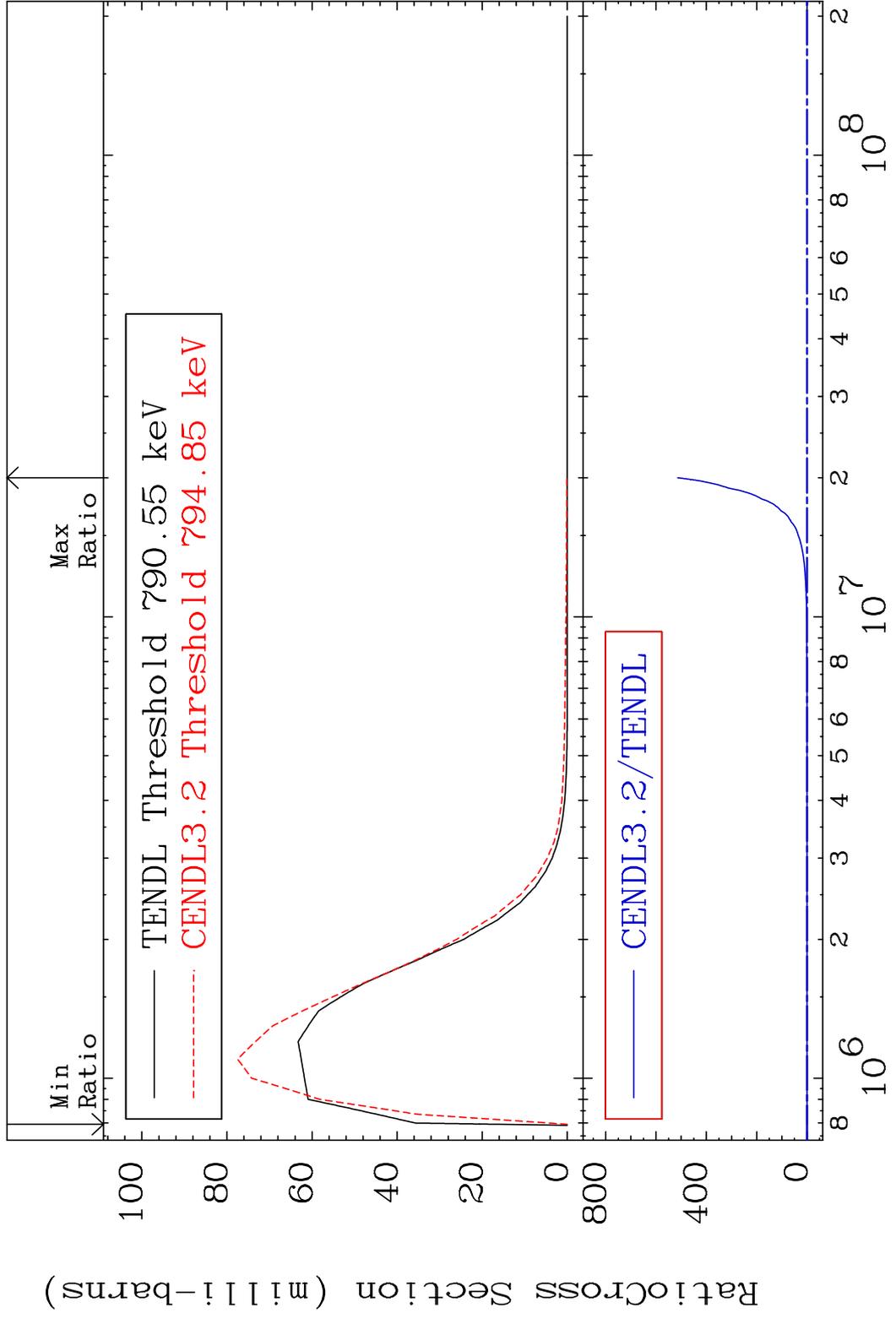


20 Incident Energy (eV) 62-Sm-149

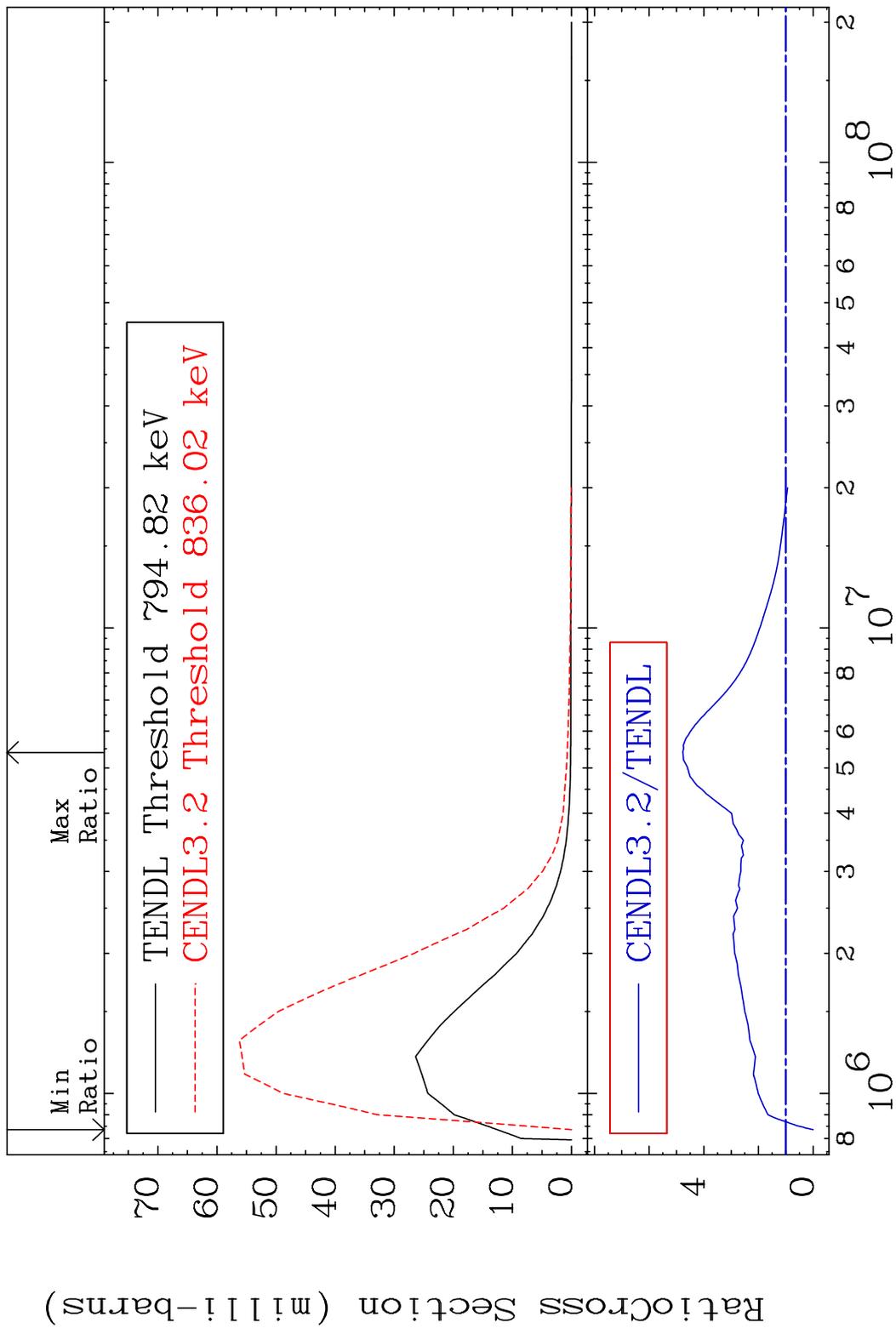
MAT 6240 MT= 64 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 179.2 %



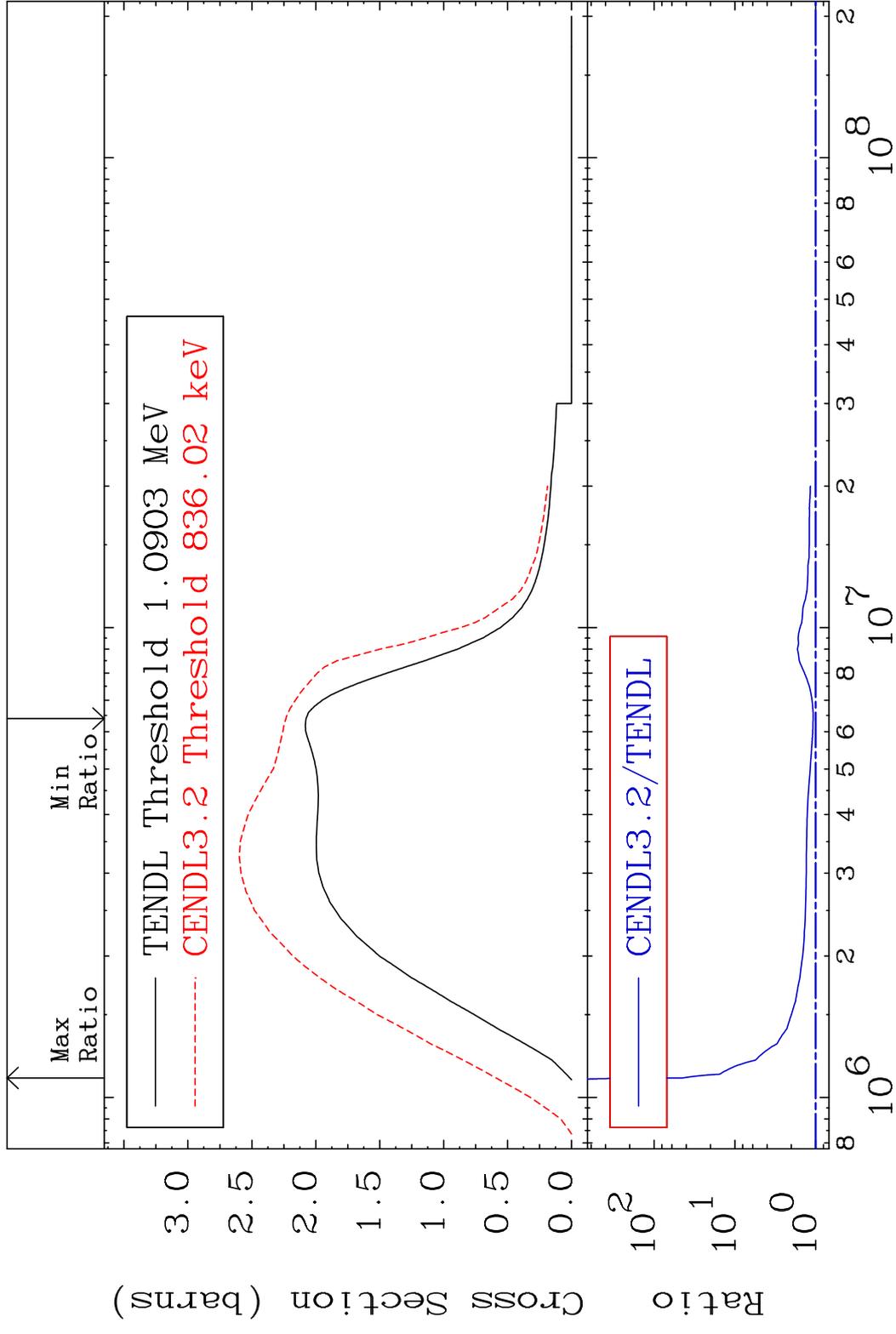
MAT 6240 MT= 65 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 9999. %



MAT 6240 MT= 66 (n, n') Level 62-Sm-149  
 Cross Section -100.0 To 376.7 %



MAT 6240 (n, n') Continuum 62-Sm-149  
 Cross Section 7.574 To 4307. %

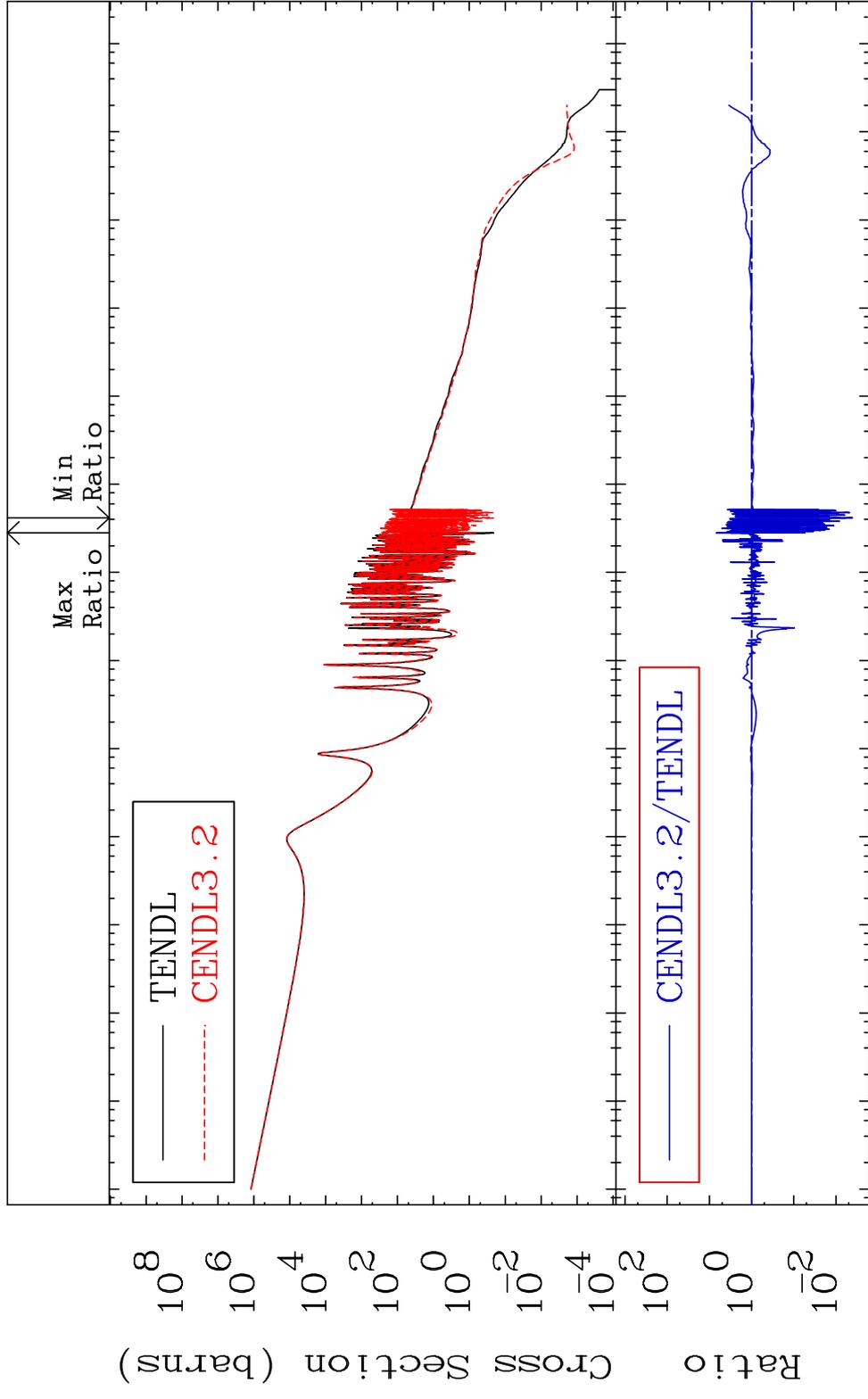


24 Incident Energy (eV) 62-Sm-149

MAT 6240

(n,  $\gamma$ )  
Cross Section -99.59 To 600.8 %

62-Sm-149

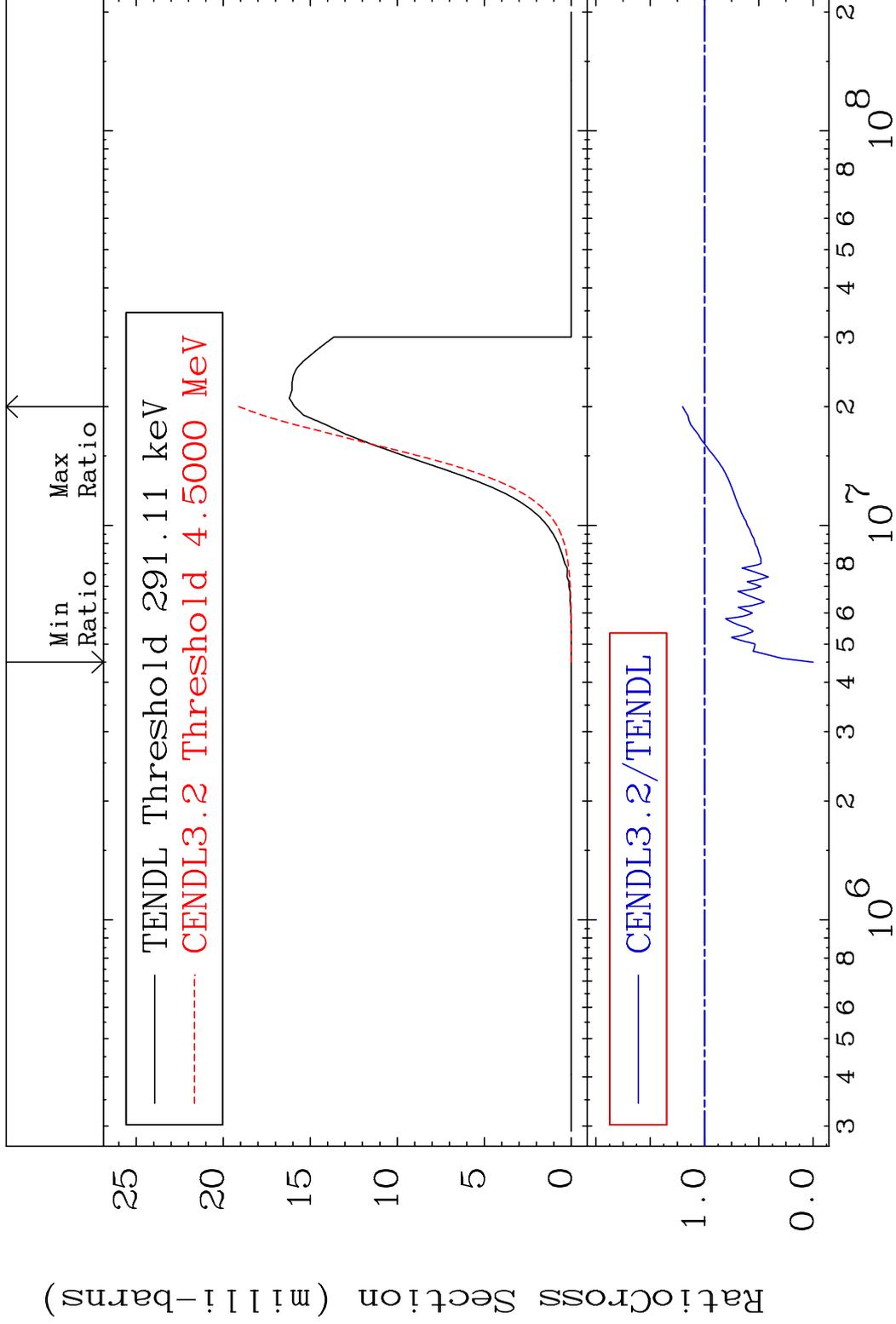


MAT 6240

(n, p)

62-Sm-149

Cross Section -100.0 To 20.13 %

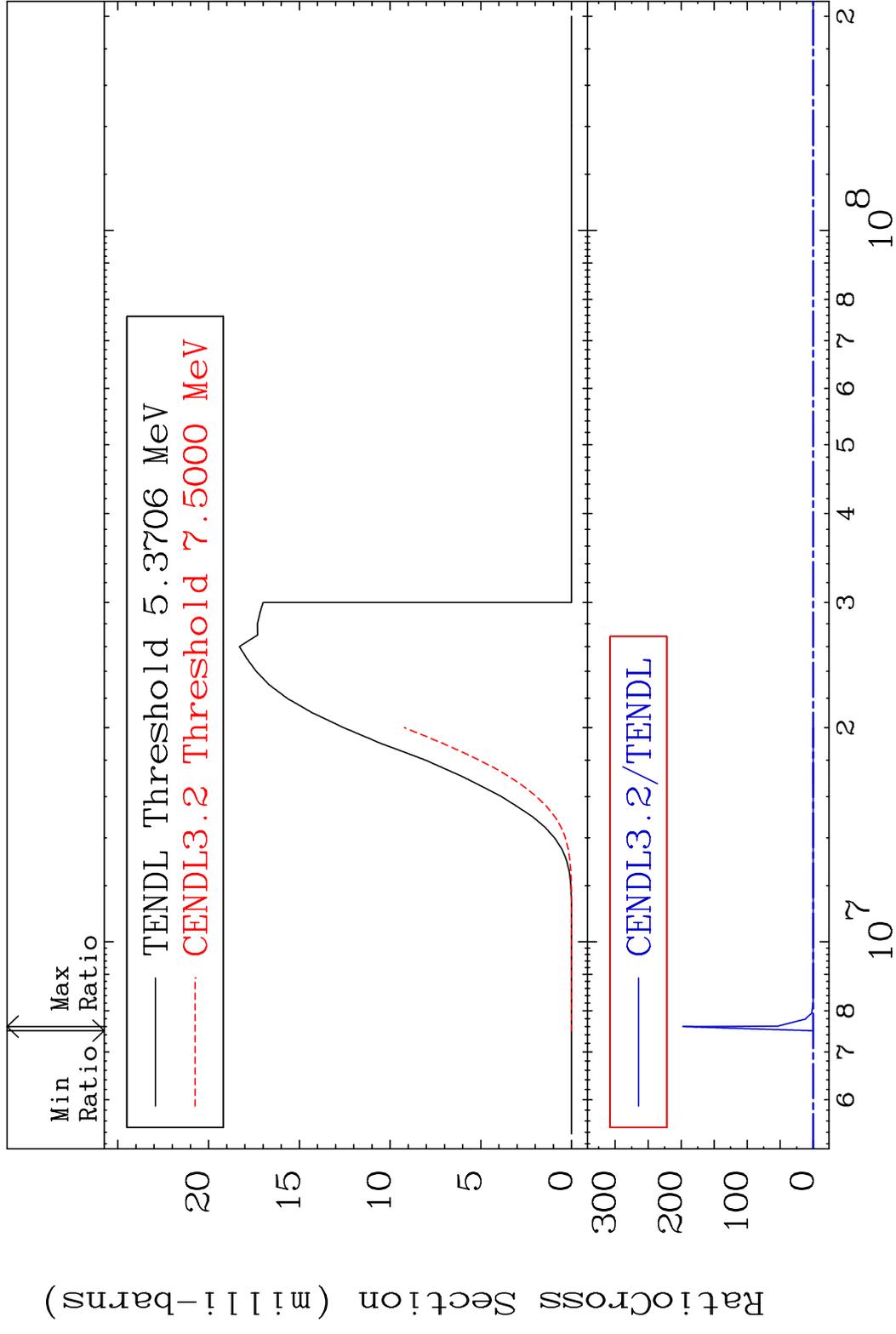


26

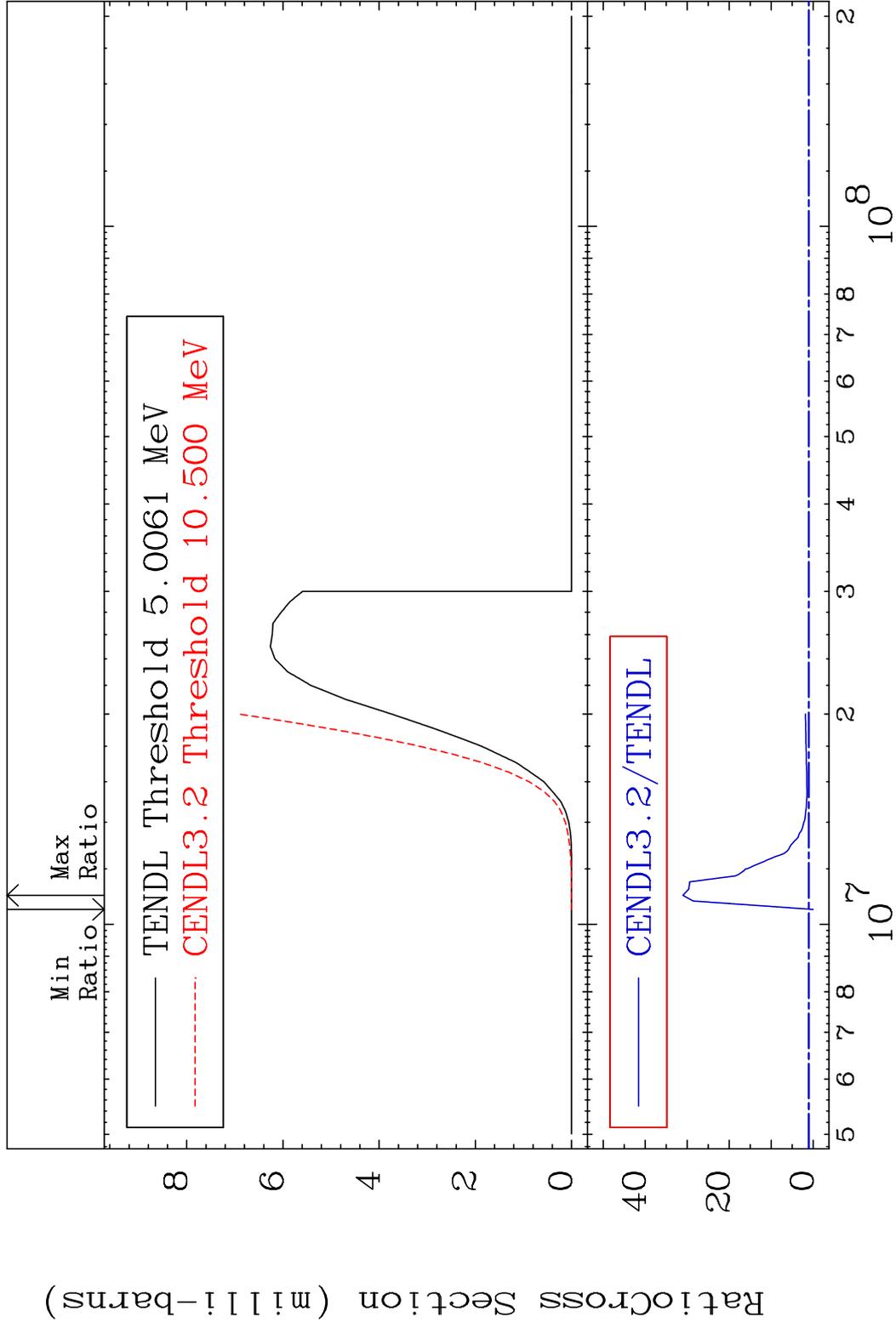
Incident Energy (eV)

62-Sm-149

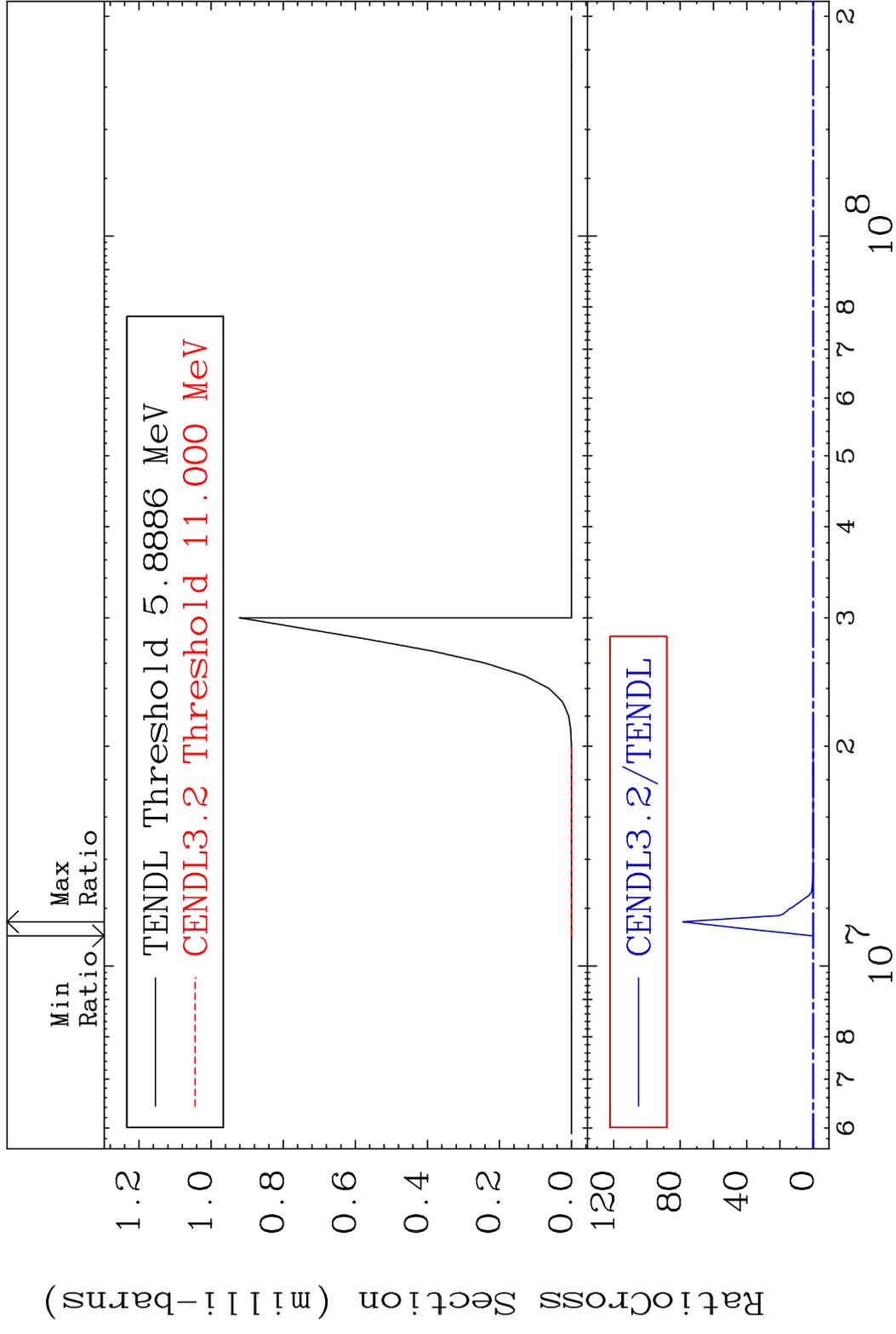
MAT 6240 (n,d) 62-Sm-149  
 Cross Section -100.0 To 9999. %



MAT 6240 (n, t) 62-Sm-149  
 Cross Section -100.0 To 3005. %



MAT 6240 (n, He-3) 62-Sm-149  
 Cross Section -100.0 To 9999. %

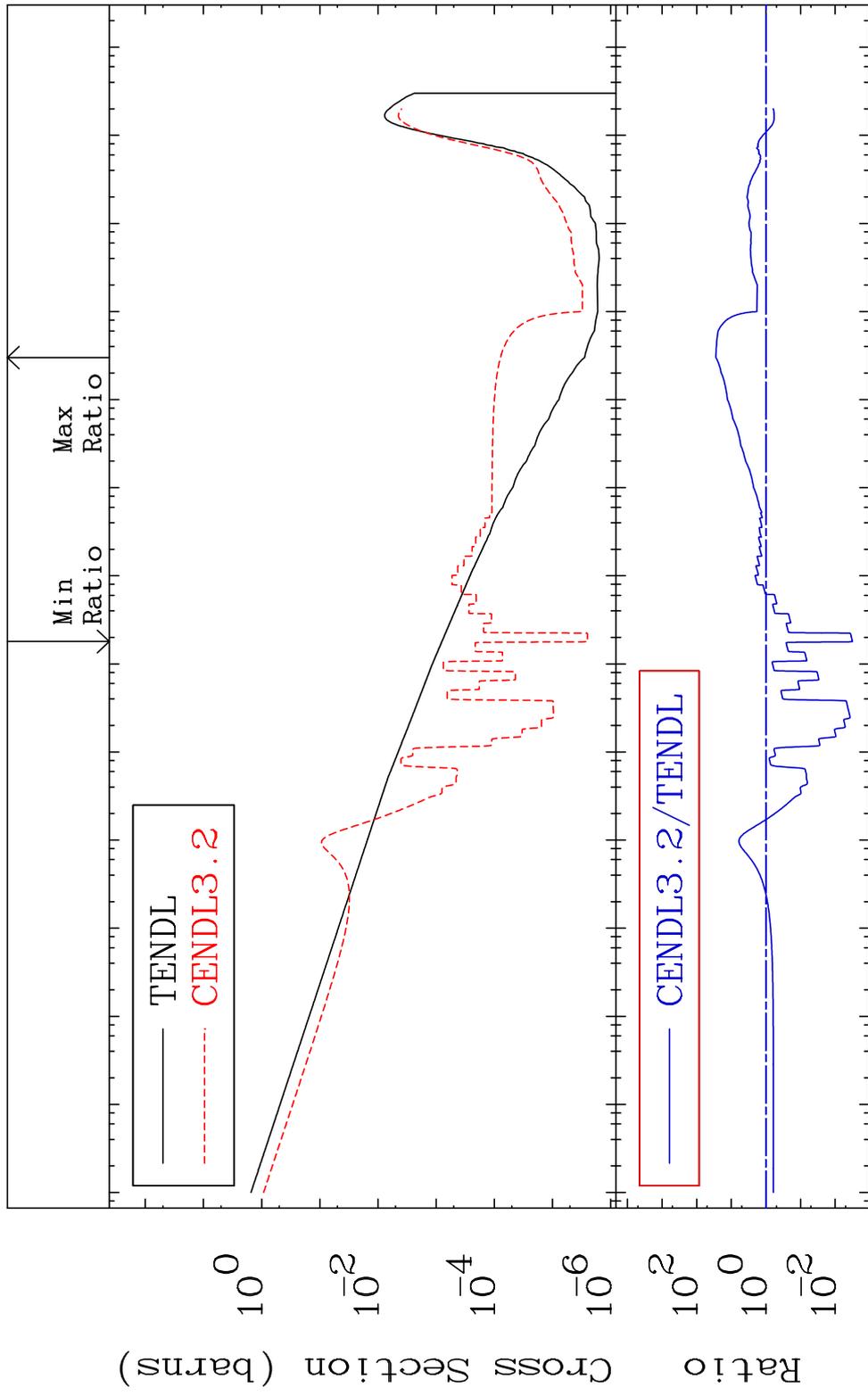


MAT 6240

(n,  $\alpha$ )

62-Sm-149

Cross Section -99.68 To 2687. %



30

Incident Energy (eV)

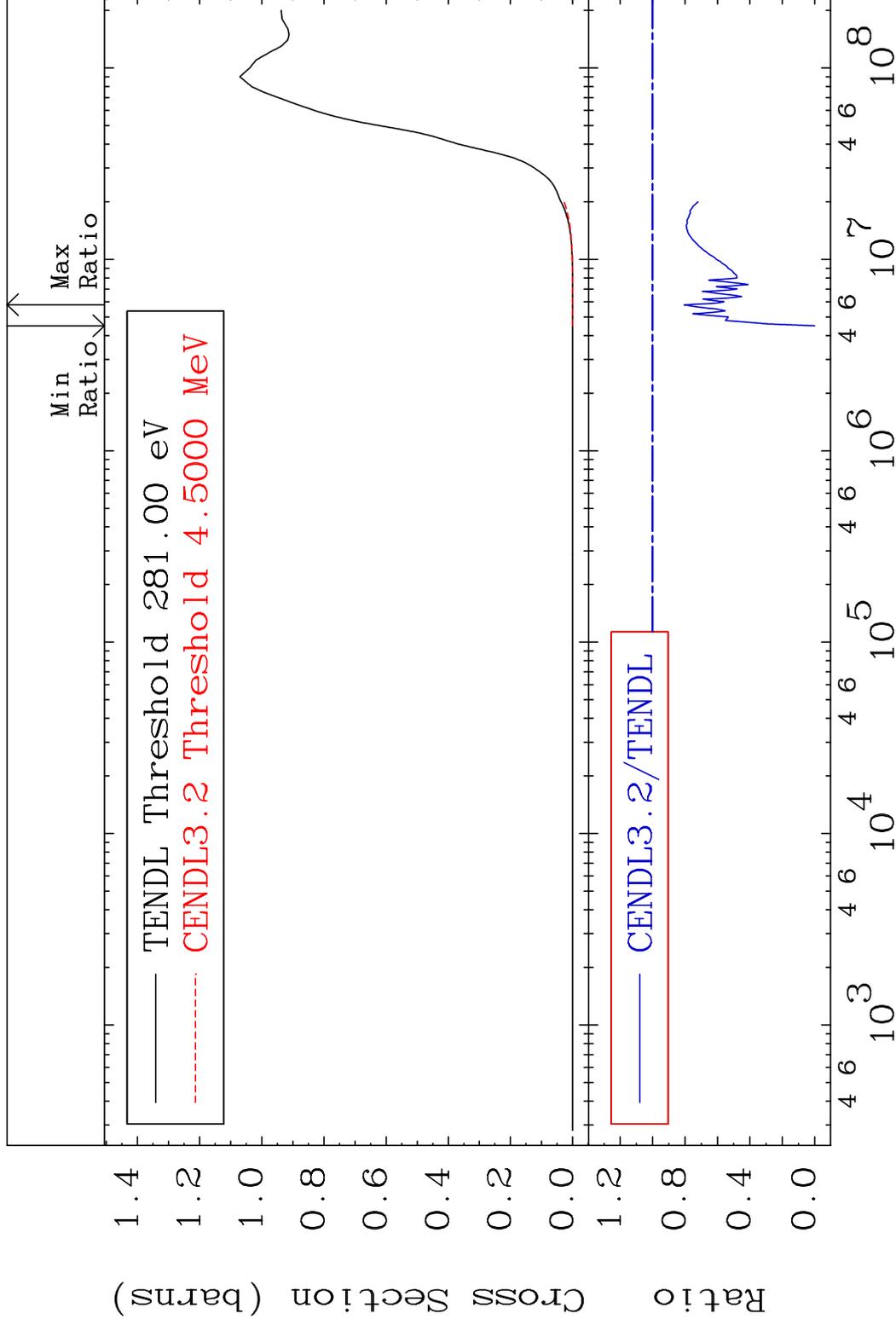
62-Sm-149

MAT 6240

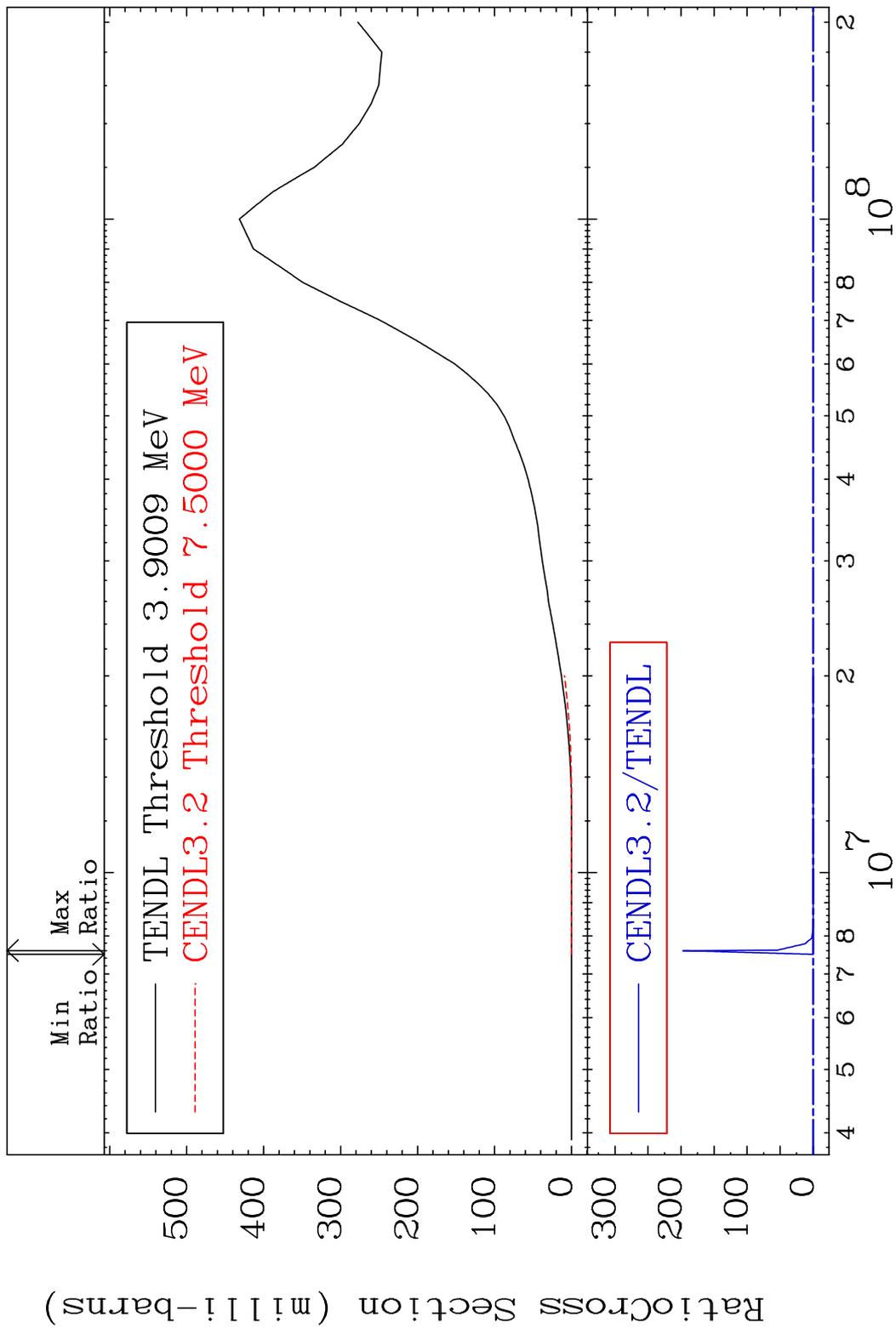
Hydrogen Production

62-Sm-149

Cross Section -100.0 To -19.43%

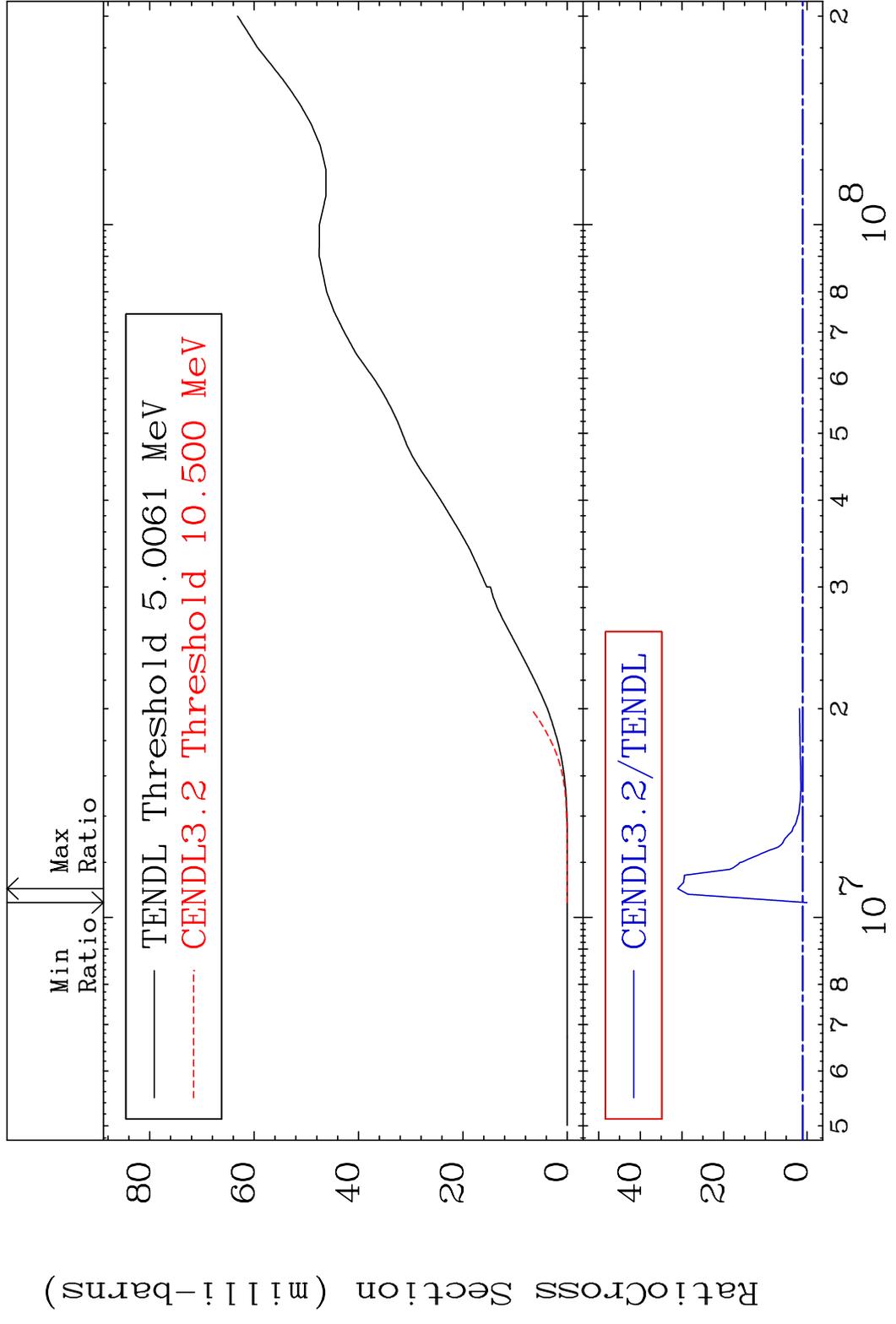


MAT 6240 Deuterium Production 62-Sm-149  
 Cross Section -100.0 To 9999. %



MAT 6240

Tritium Production 62-Sm-149  
Cross Section -100.0 To 3005. %

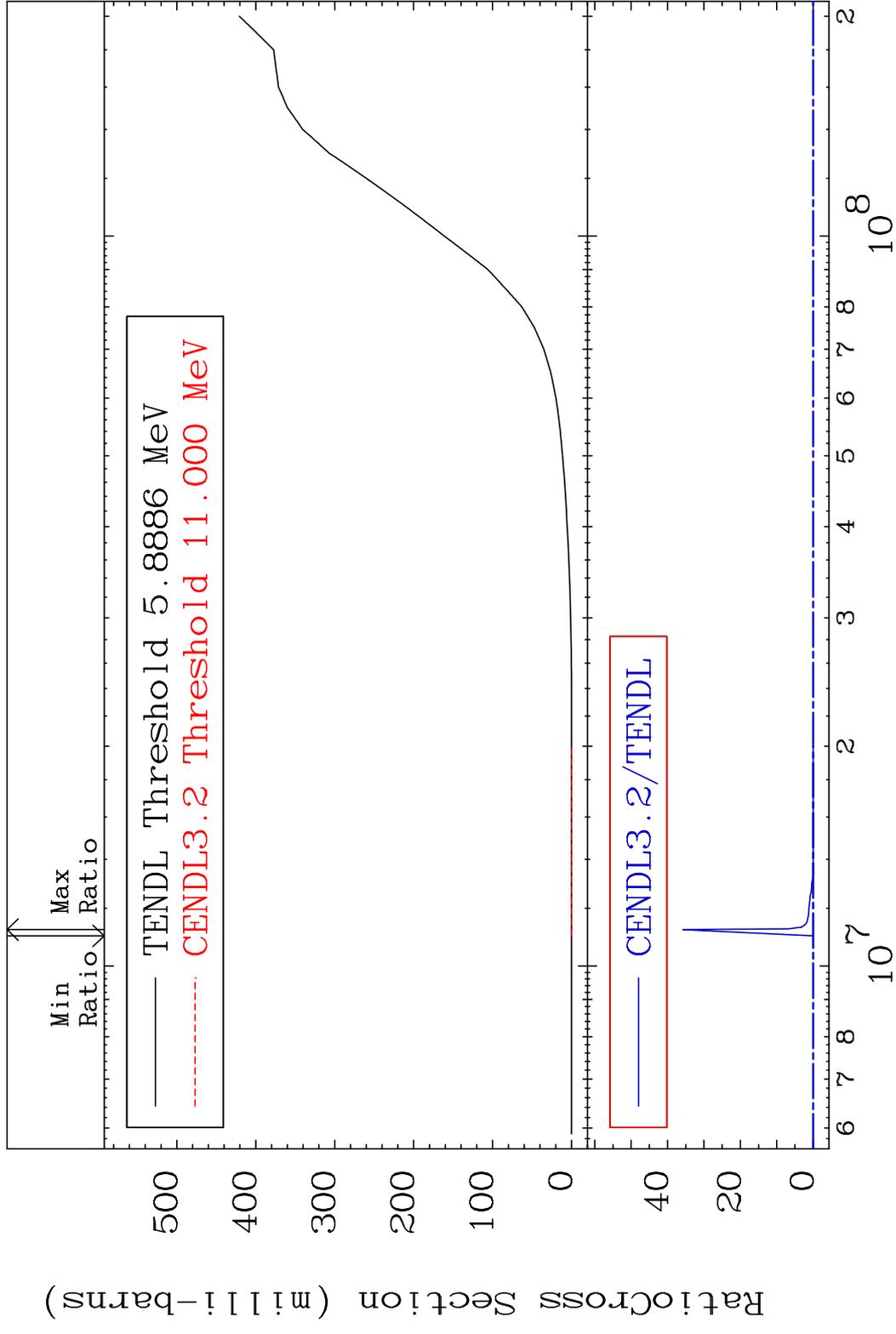


MAT 6240

He-3 Production

62-Sm-149

Cross Section -100.0 To 9999. %

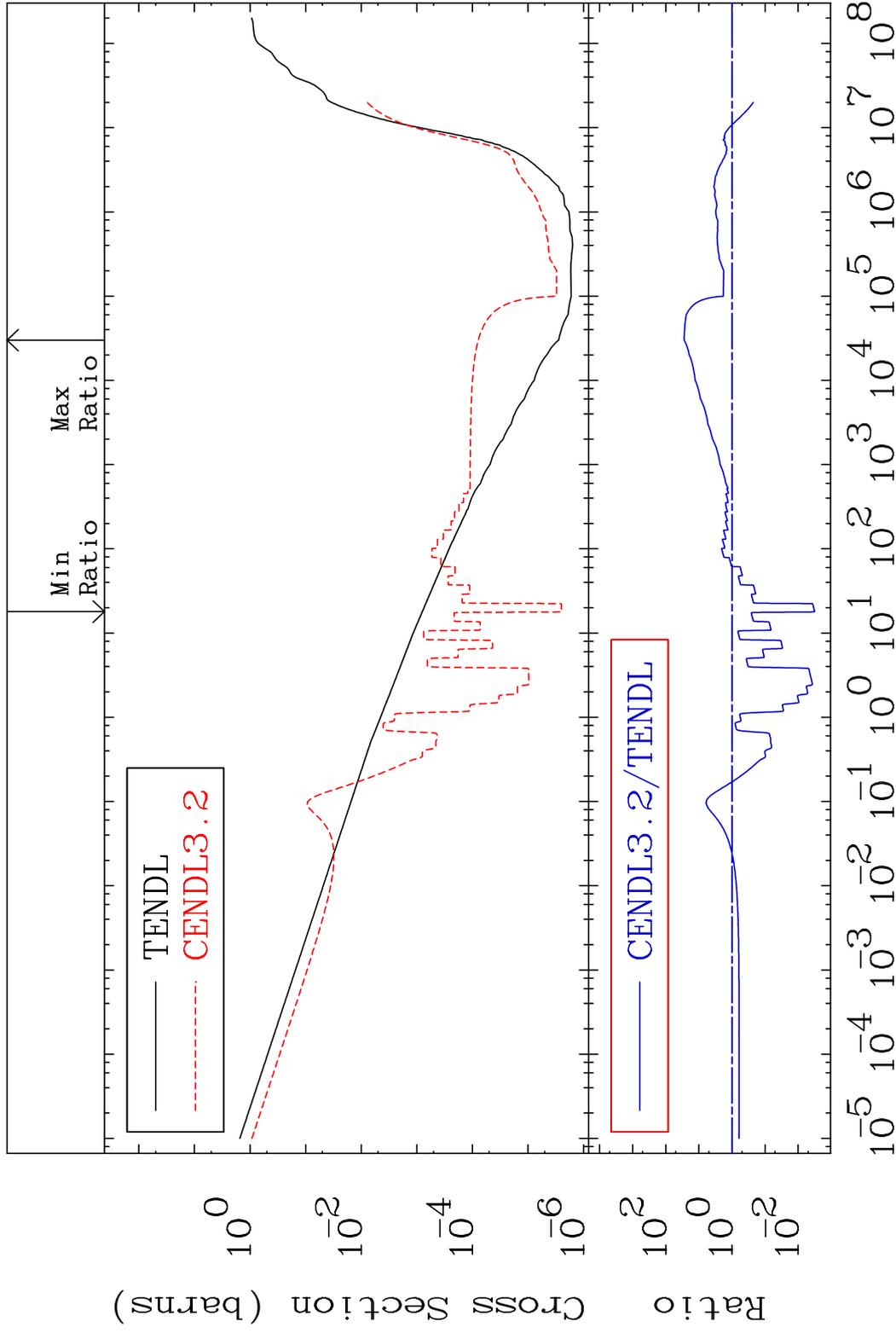


MAT 6240

He-4 Production

62-Sm-149

Cross Section -99.68 To 2687. %

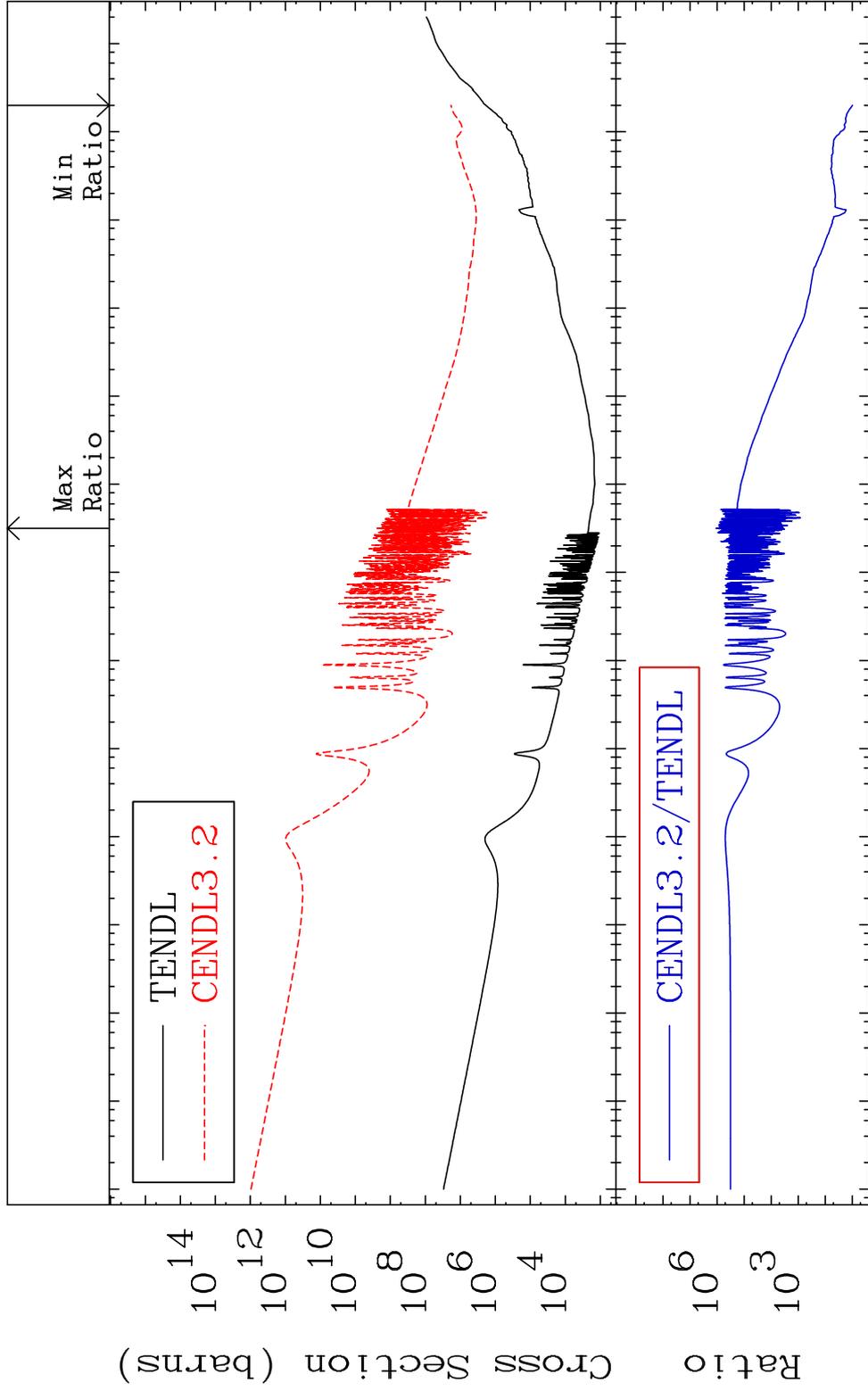


35

Incident Energy (eV)

62-Sm-149

MAT 6240 Kerma total (eV-barns) 62-Sm-149  
 Cross Section 889.4 To 9999. %



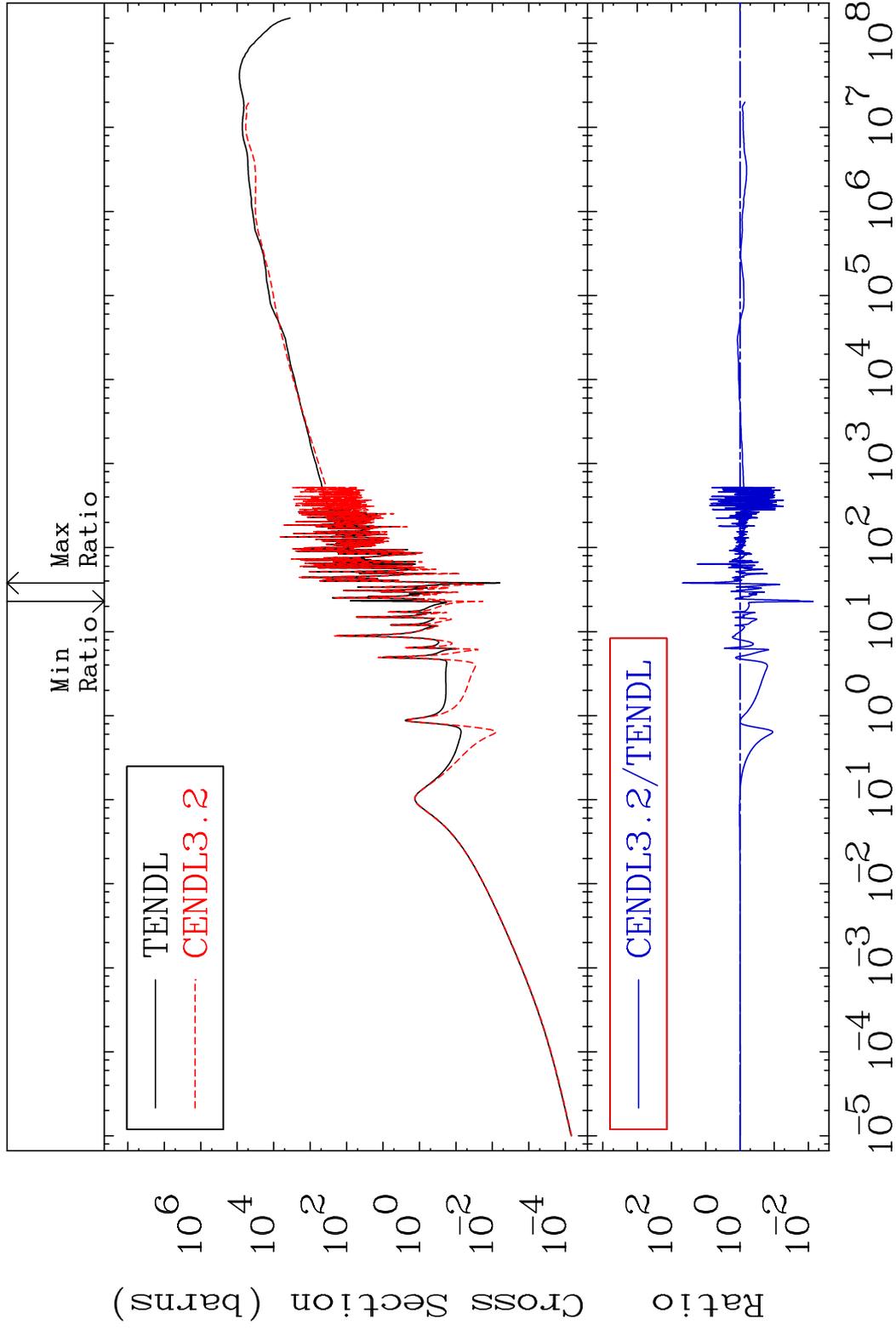
MAT 6240

Kerma elastic

62-Sm-149

Cross Section

-99.27 To 4538. %

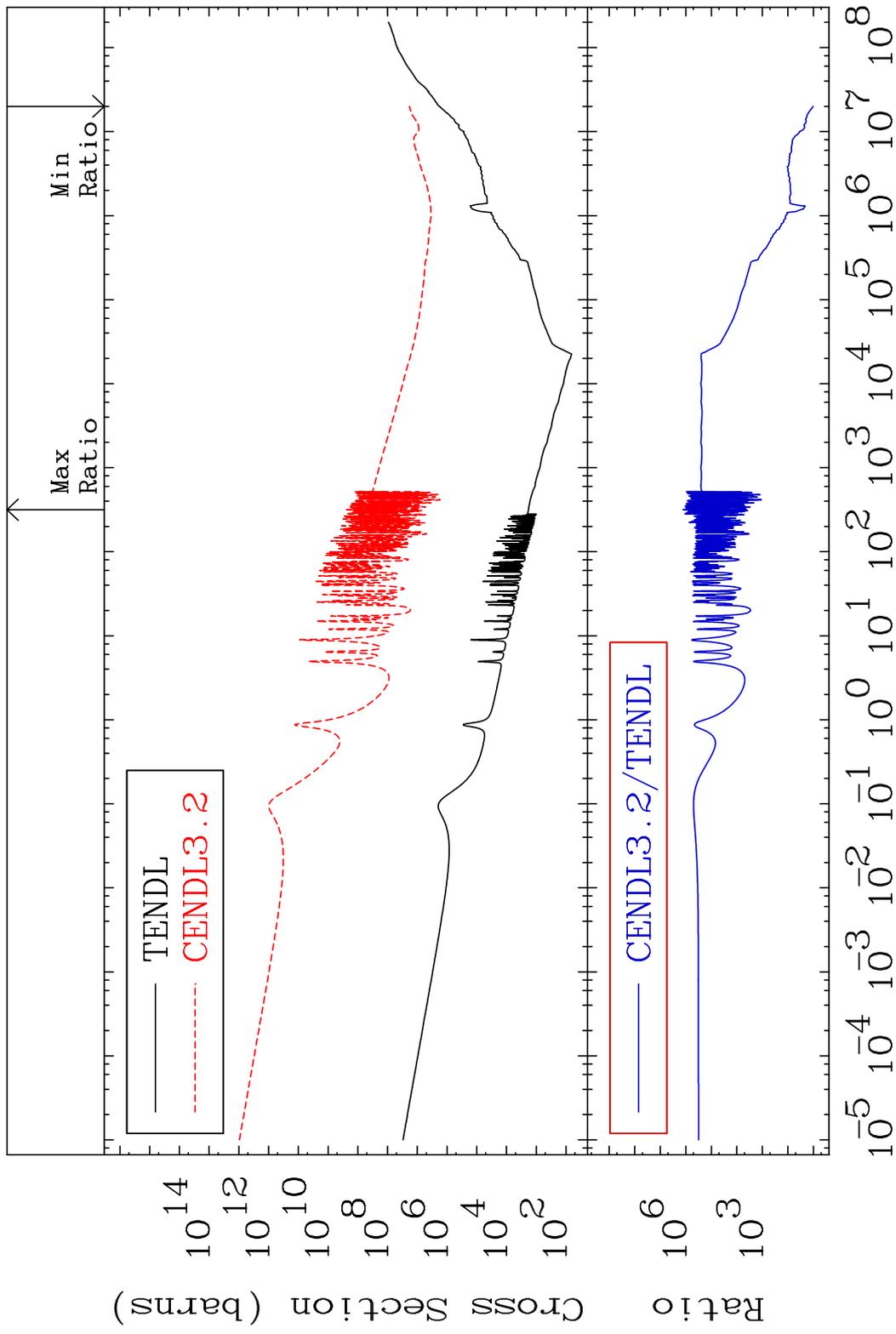


37

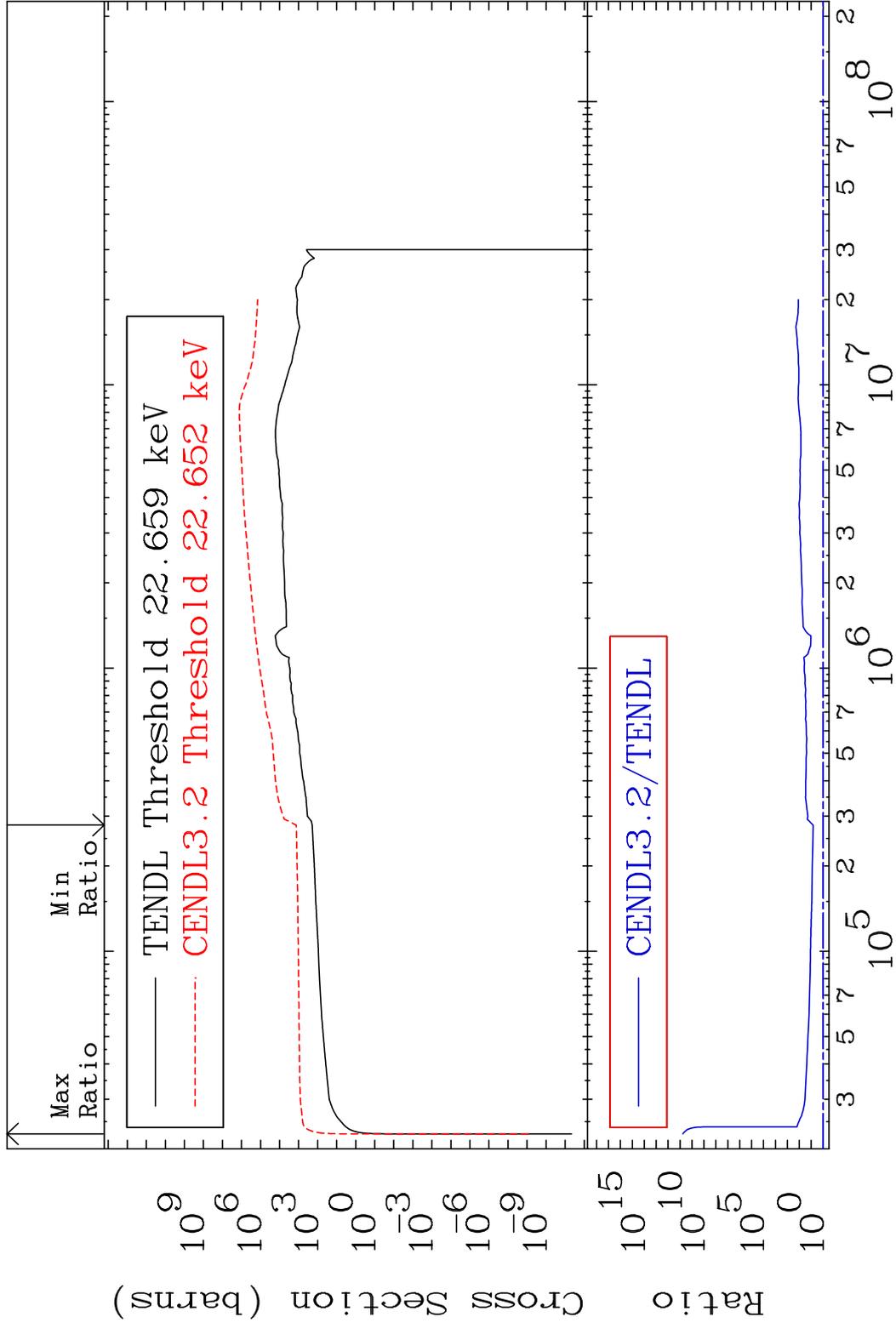
Incident Energy (eV)

62-Sm-149

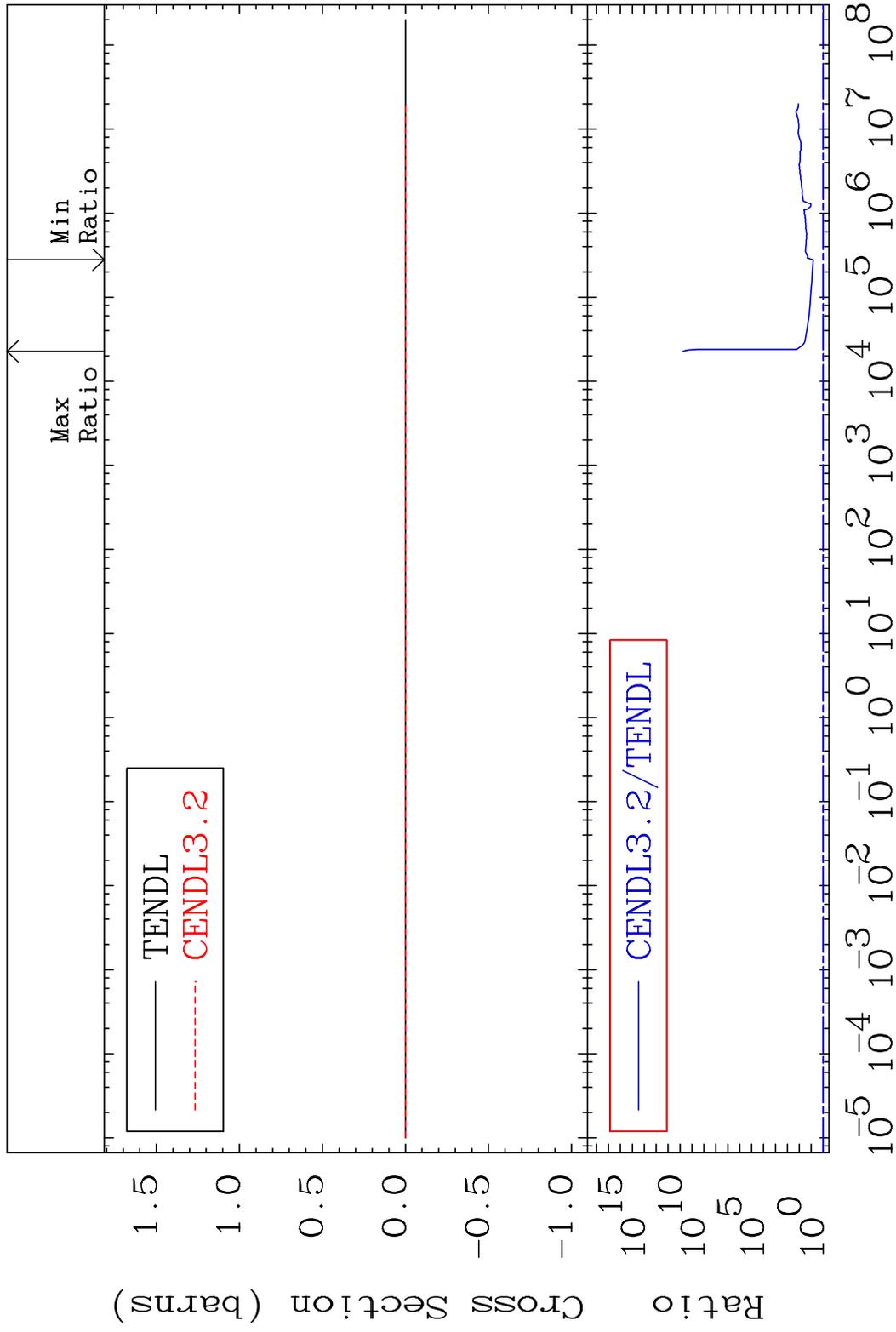
MAT 6240 Kerma non-elastic (all but mt2) 62-Sm-149  
 Cross Section 923.4 To 9999. %



MAT 6240 Kerma inelastic (mt51-91) 62-Sm-149  
 Cross Section 588.7 To 9999. %

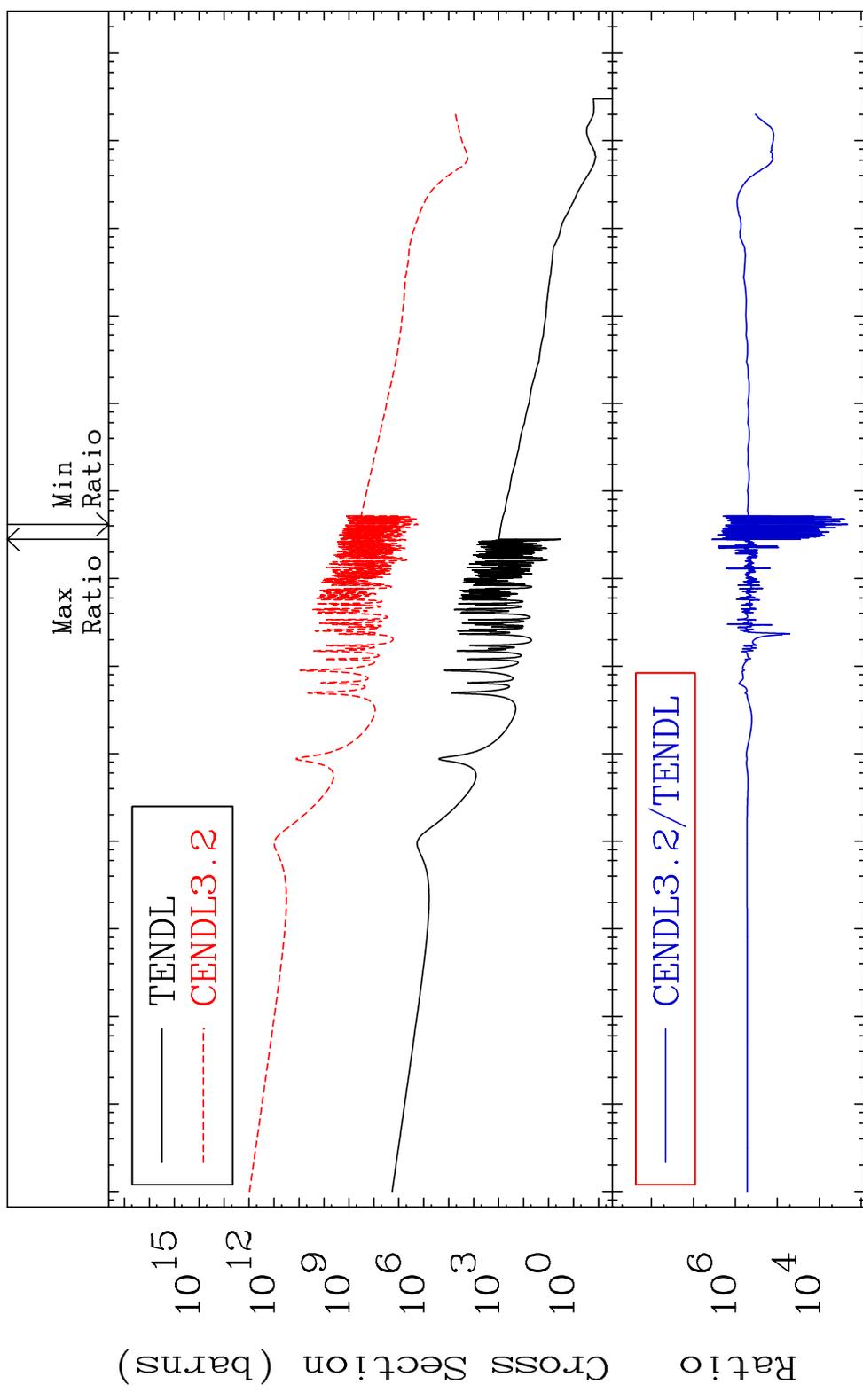


MAT 6240 Kerma fission (mt18 or mt19-20-21-38)62-Sm-149  
 Cross Section 588.7 To 9999. %

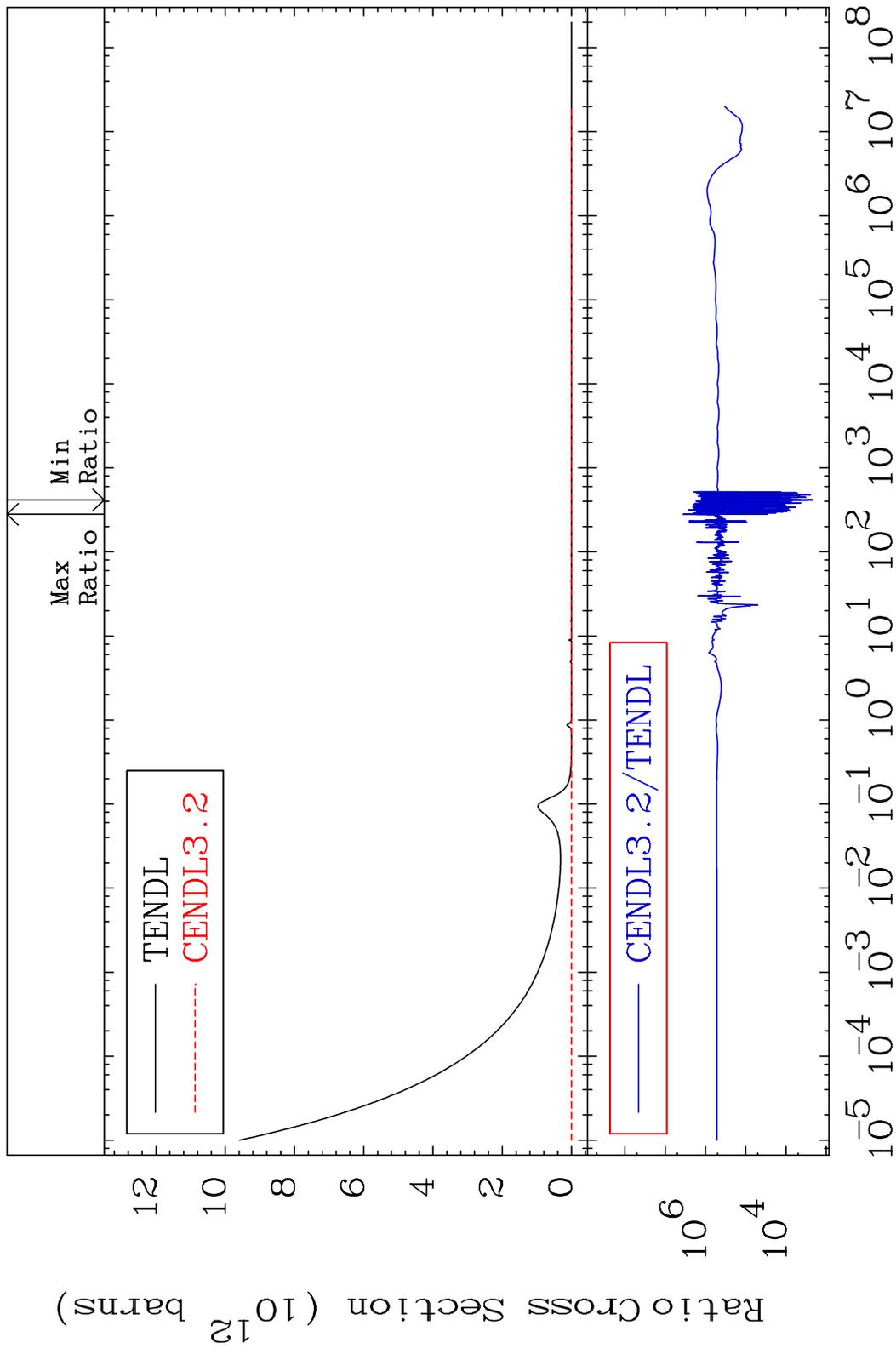


MAT 6240

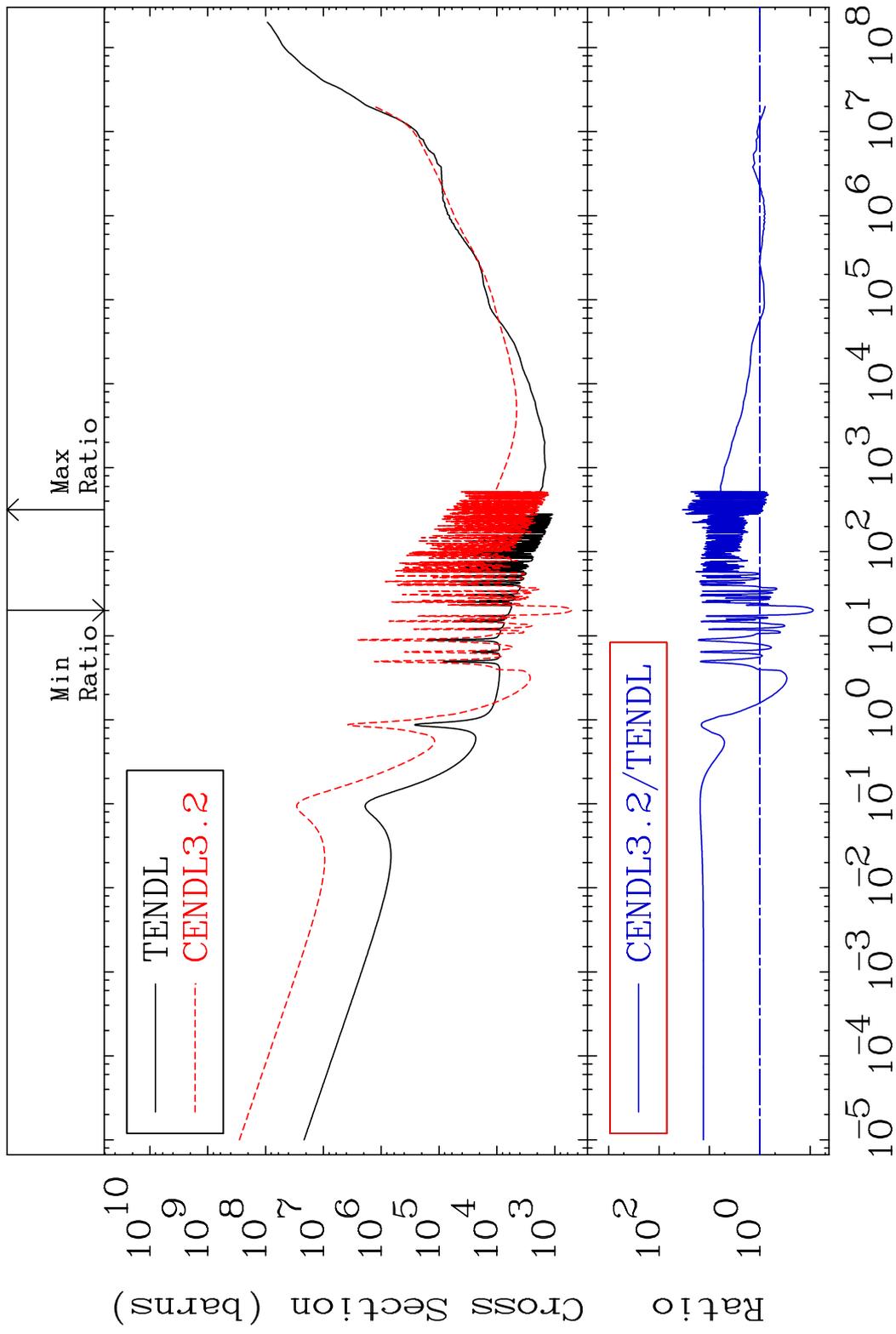
Kerma capture (mt102) 62-Sm-149  
Cross Section 9999. To 9999. %



MAT 6240 Total photon (eV-barns) 62-Sm-149  
 Cross Section 9999. To 9999. %



MAT 6240 Total kinematic kerma (high limit) 62-Sm-149  
 Cross Section -91.25 To 3273. %

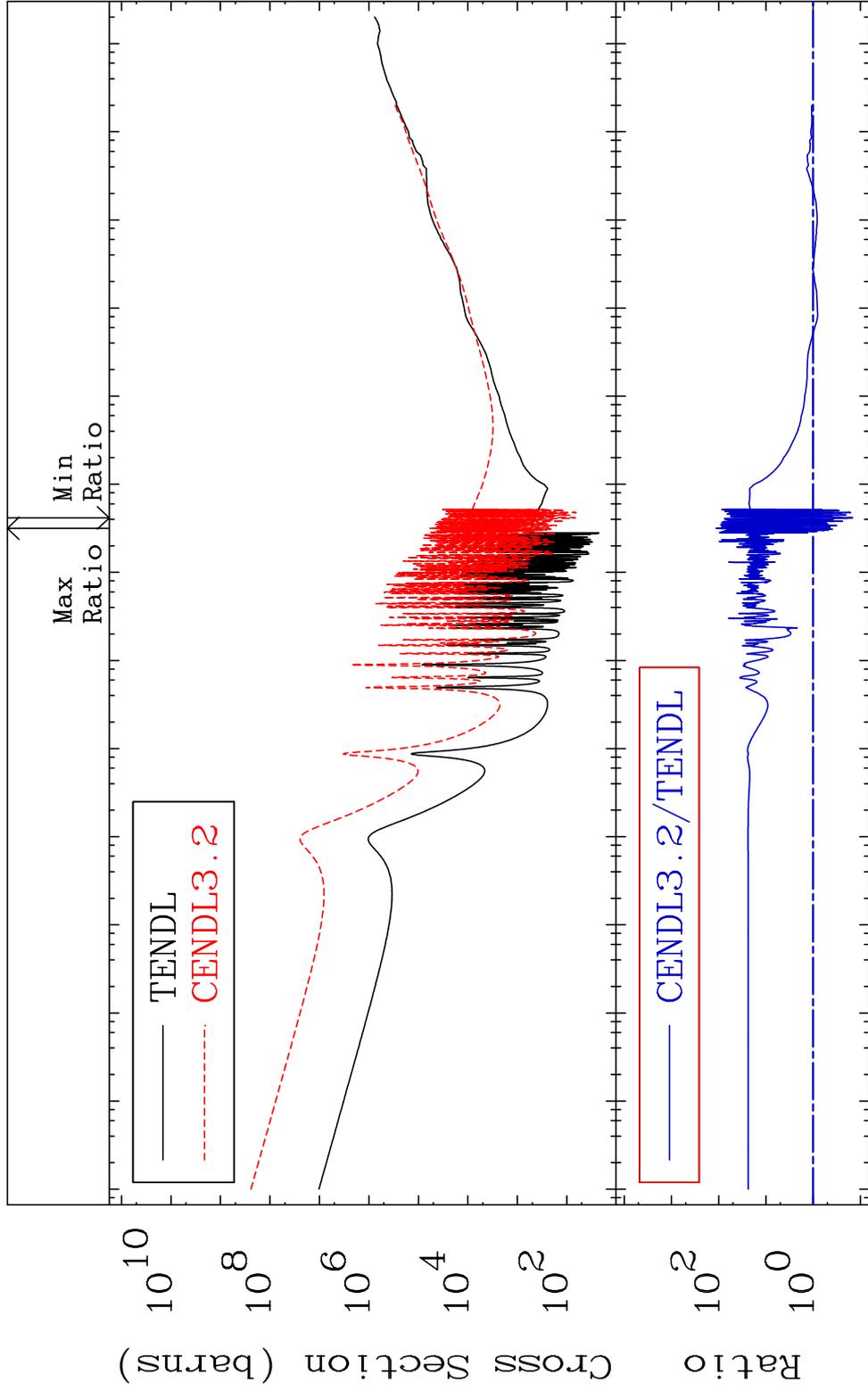


MAT 6240

Dpa total (eV-barns)

62-Sm-149

Cross Section -85.30 To 9999. %

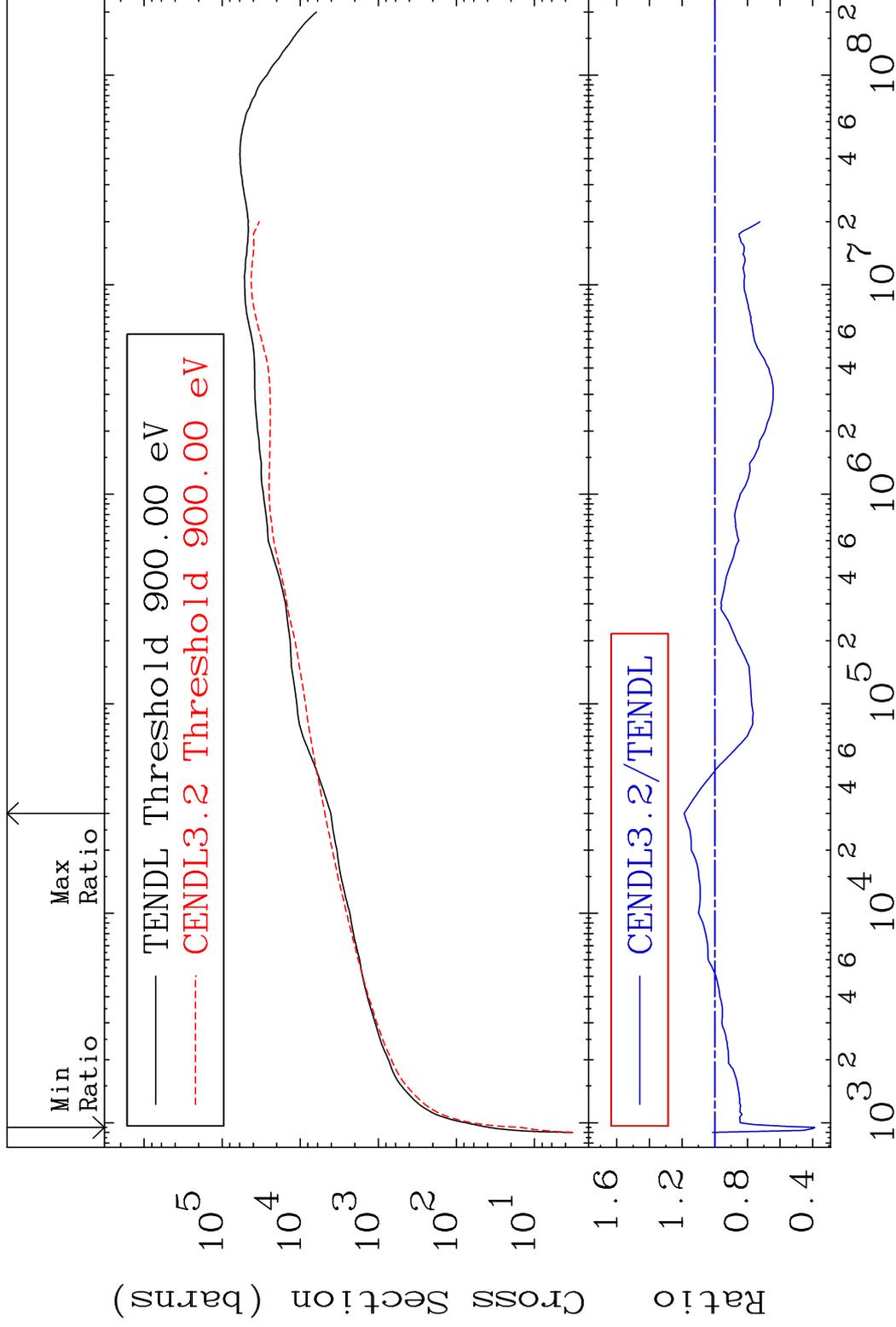


MAT 6240

Dpa elastic (mt2)

62-Sm-149

Cross Section -61.22 To 18.76 %

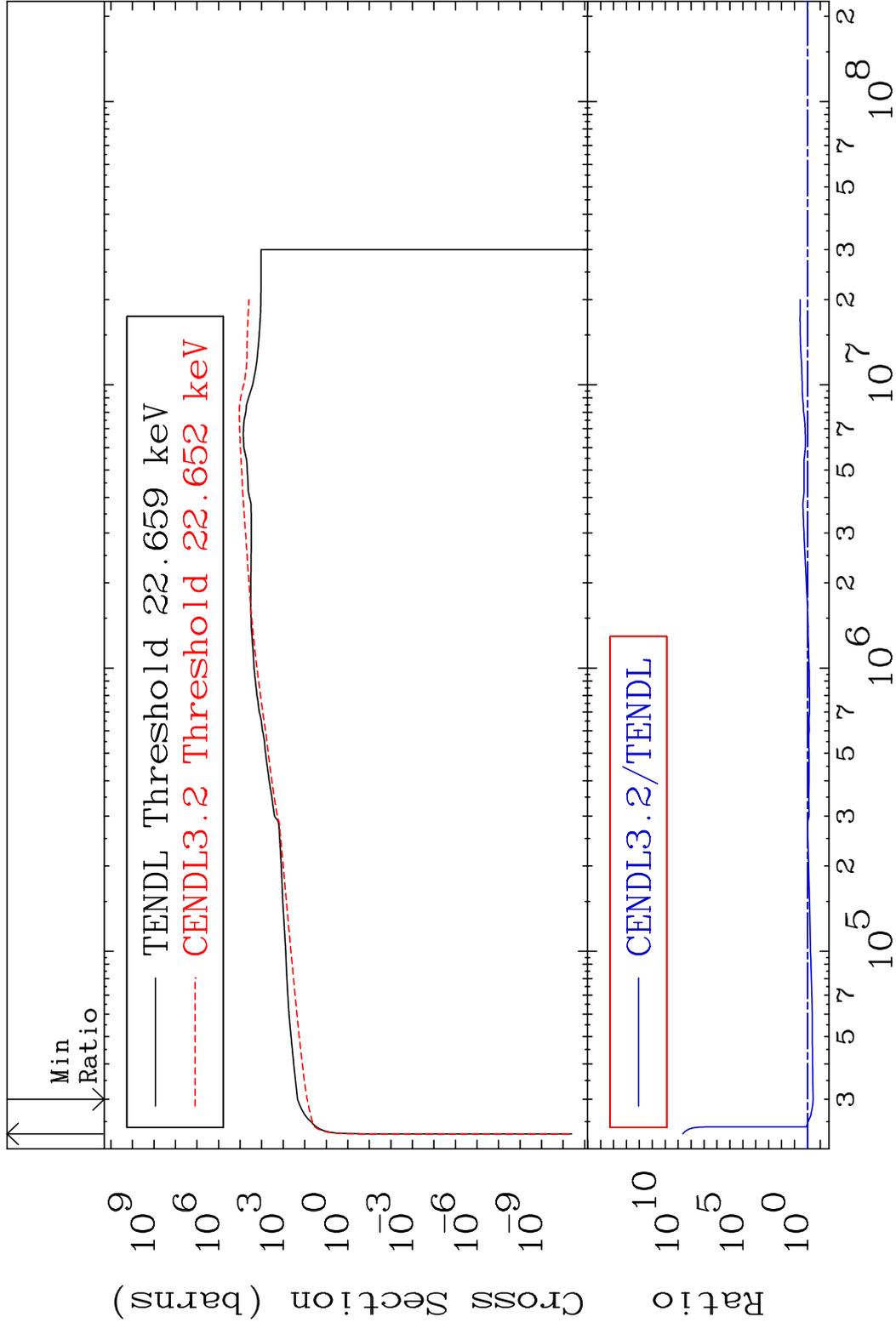


45

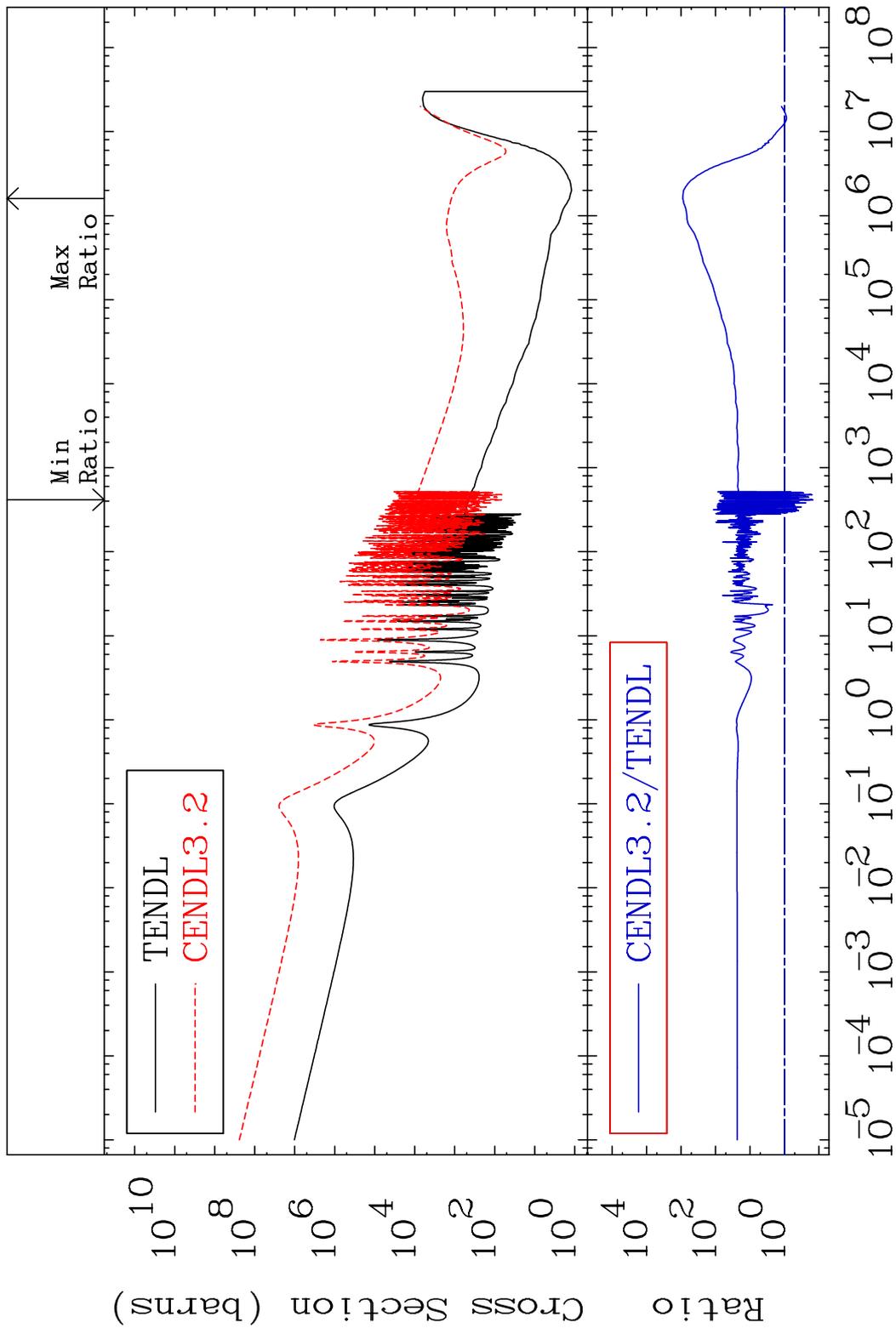
Incident Energy (eV)

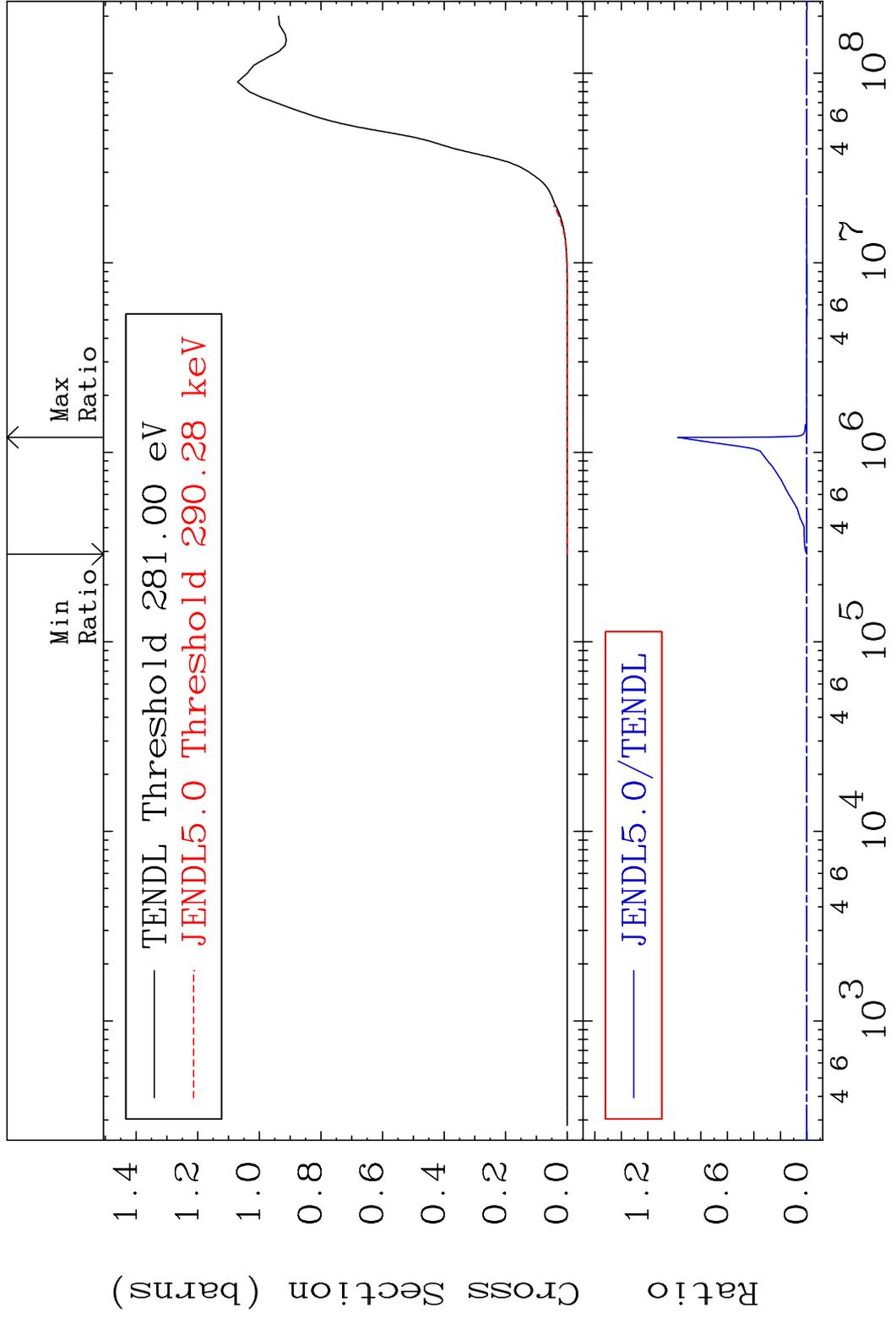
62-Sm-149

MAT 6240      Dpa inelastic (mt51-91)      62-Sm-149  
 Cross Section      -63.90 To 9999. %

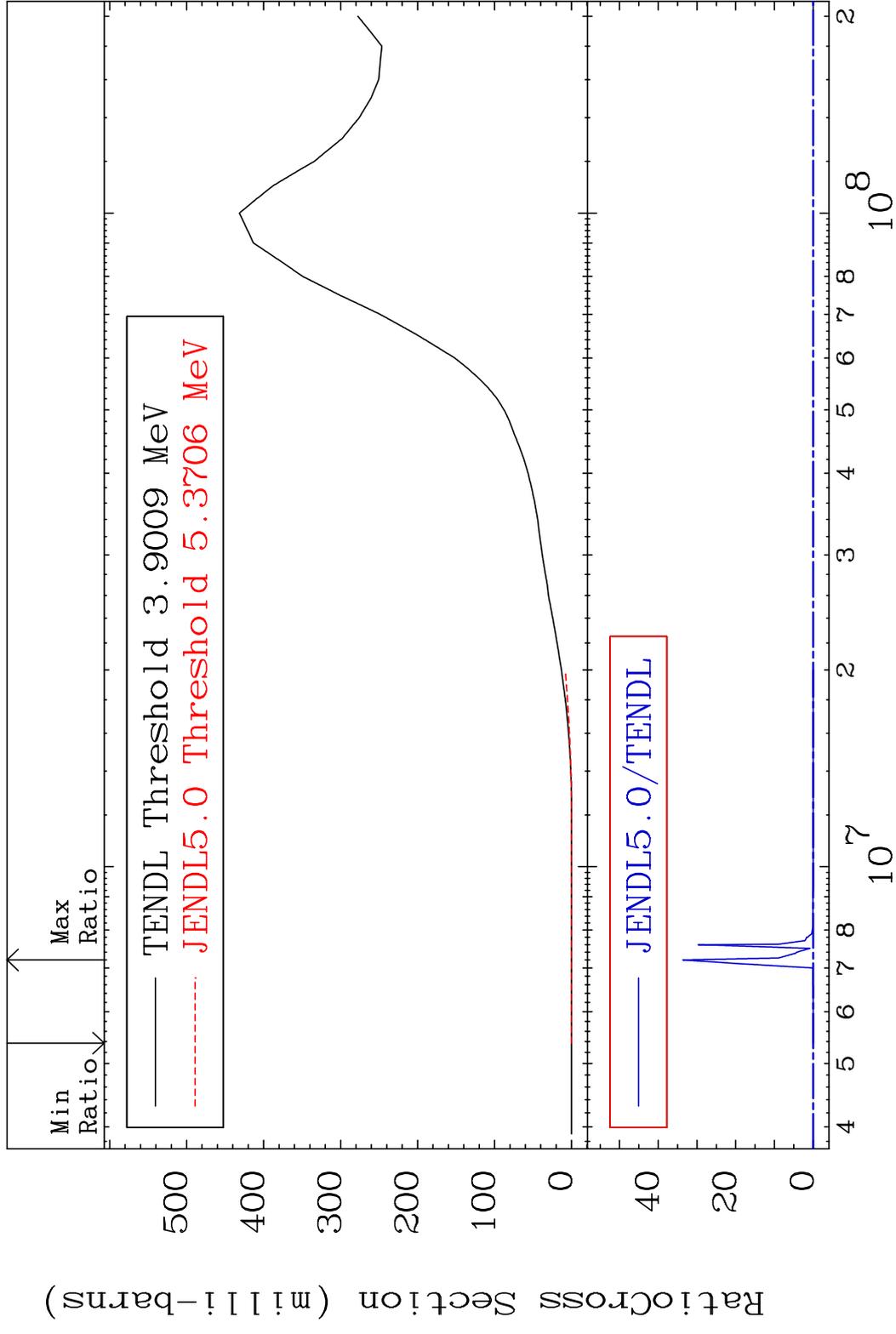


MAT 6240 Dpa disappearance (mt102 -120) 62-Sm-149  
 Cross Section -85.30 To 9999. %





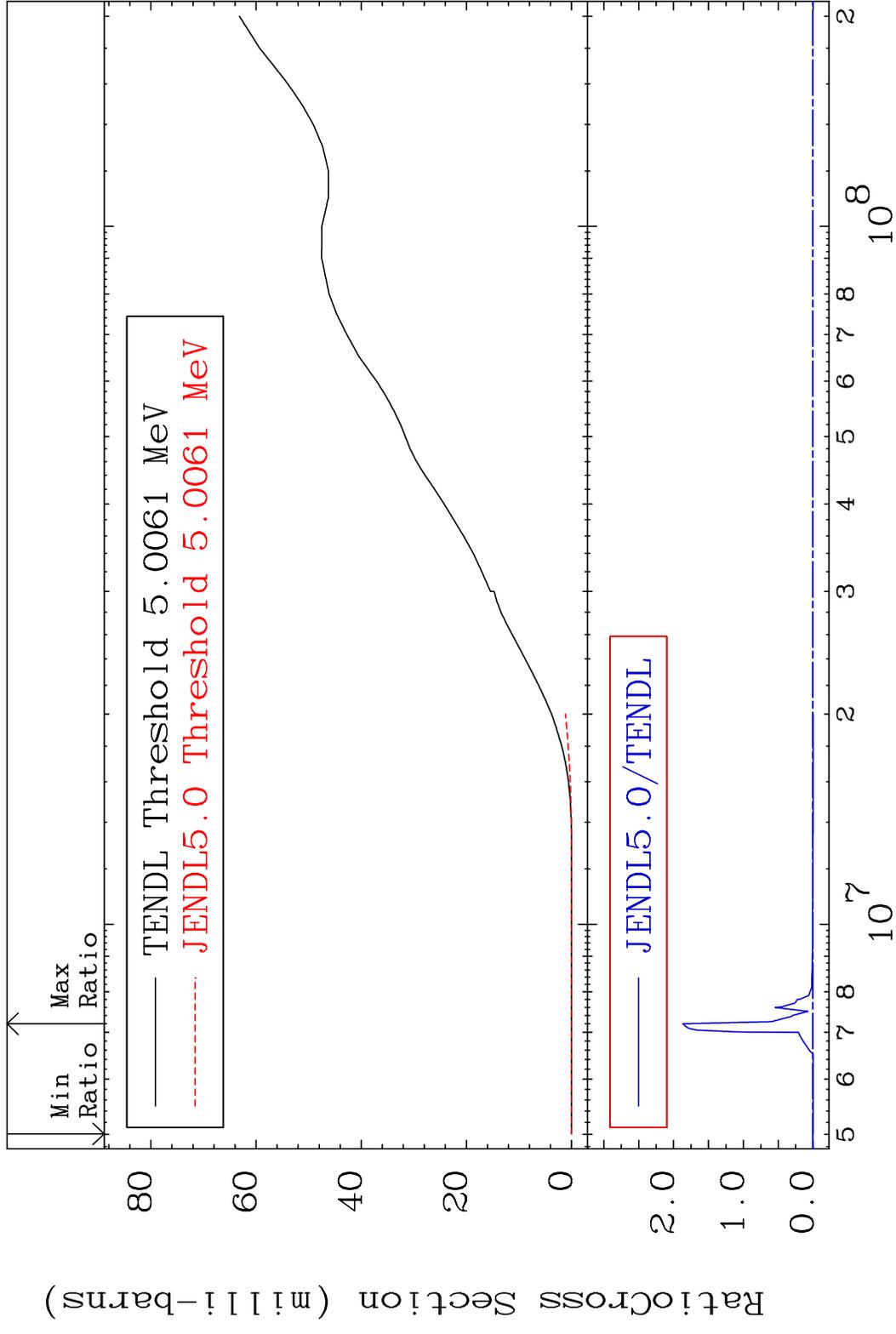
MAT 6240 Deuterium Production 62-Sm-149  
 Cross Section -100.0 To 9999. %



49 Incident Energy (eV) 62-Sm-149

MAT 6240

Tritium Production 62-Sm-149  
Cross Section -100.0 To 9999. %



50

Incident Energy (eV)

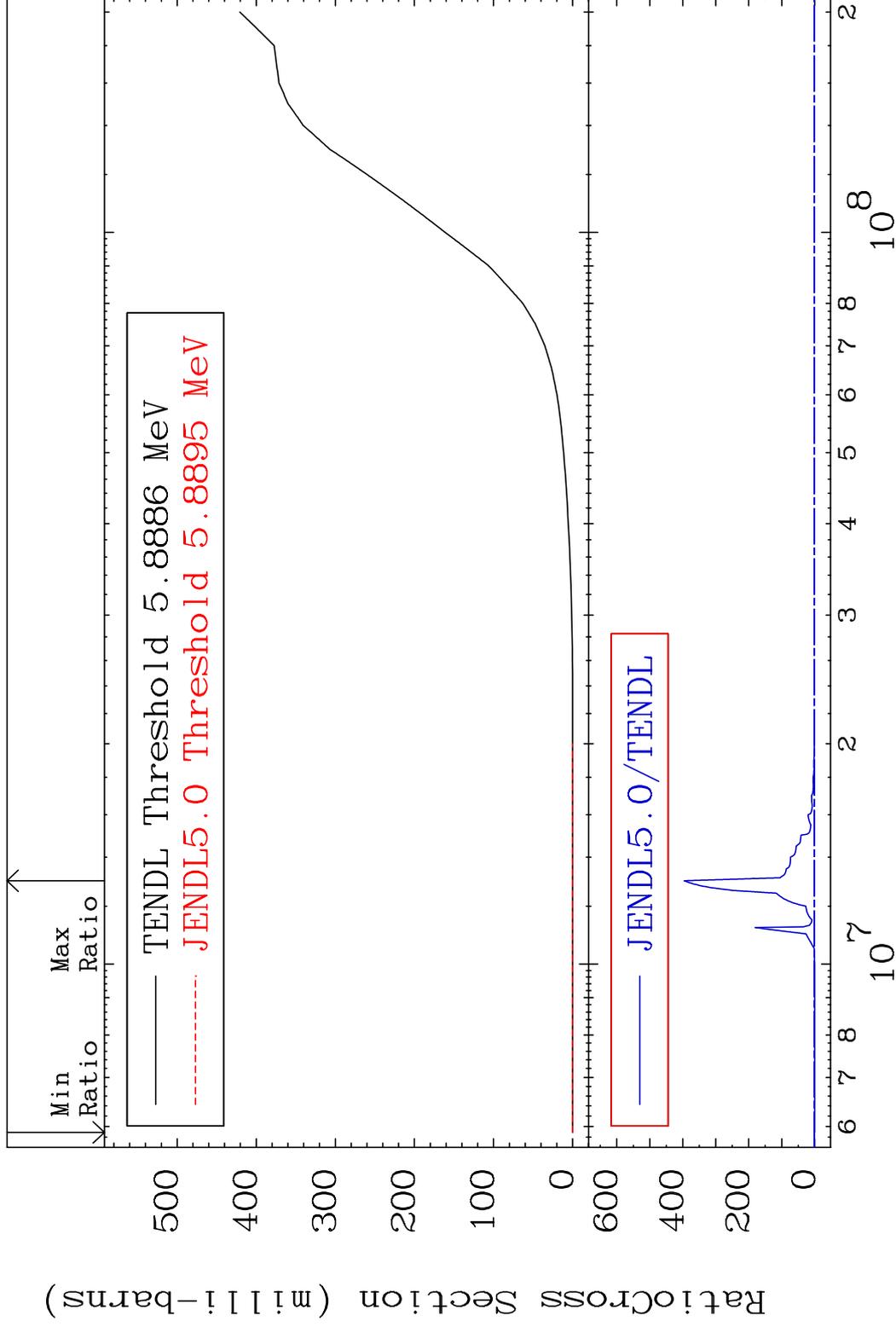
62-Sm-149

MAT 6240

He-3 Production

62-Sm-149

Cross Section -100.0 To 9999. %

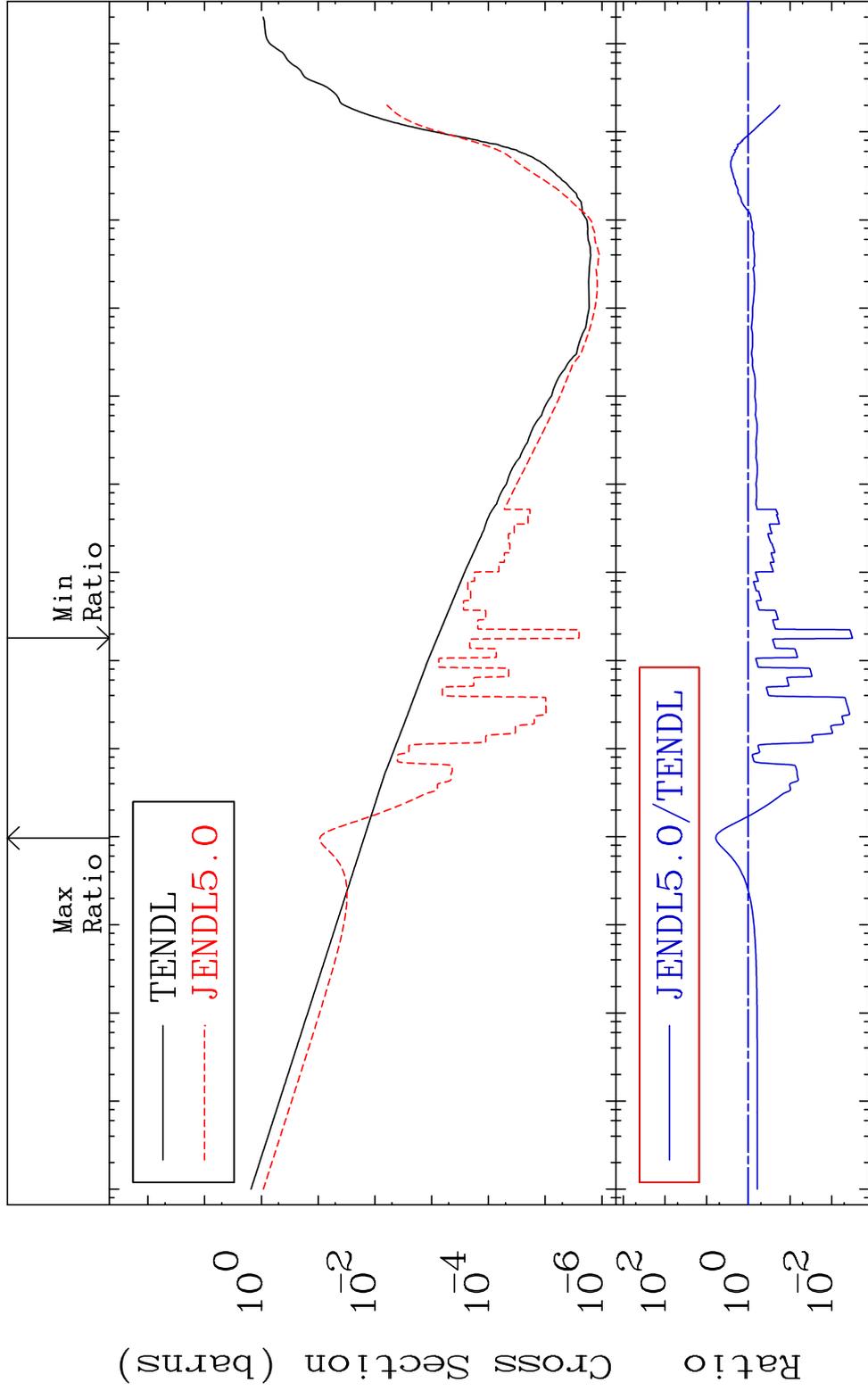


51

Incident Energy (eV)

62-Sm-149

MAT 6240 He-4 Production 62-Sm-149  
 Cross Section -99.68 To 500.5 %



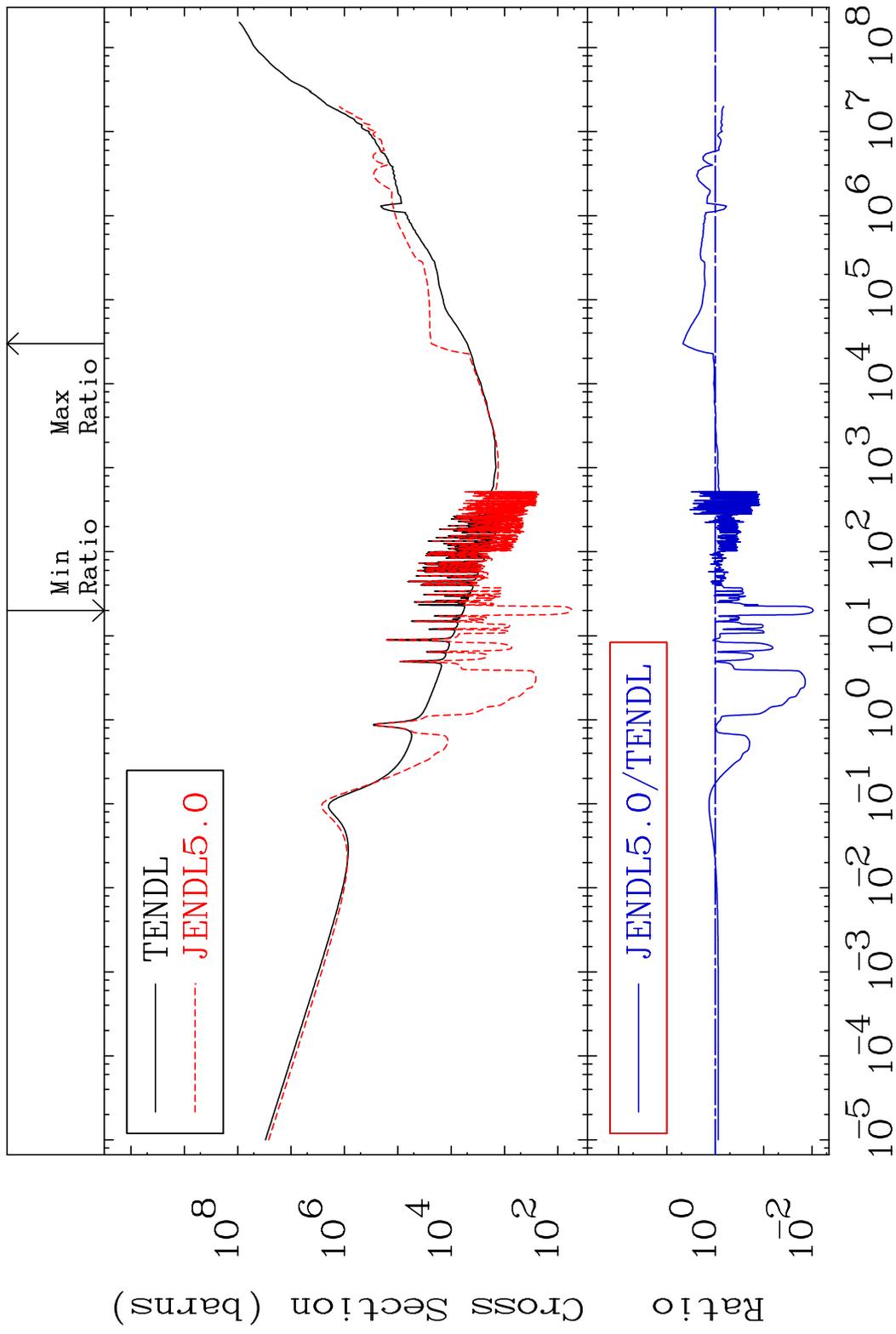
Ratio  
 Cross Section (barns)

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

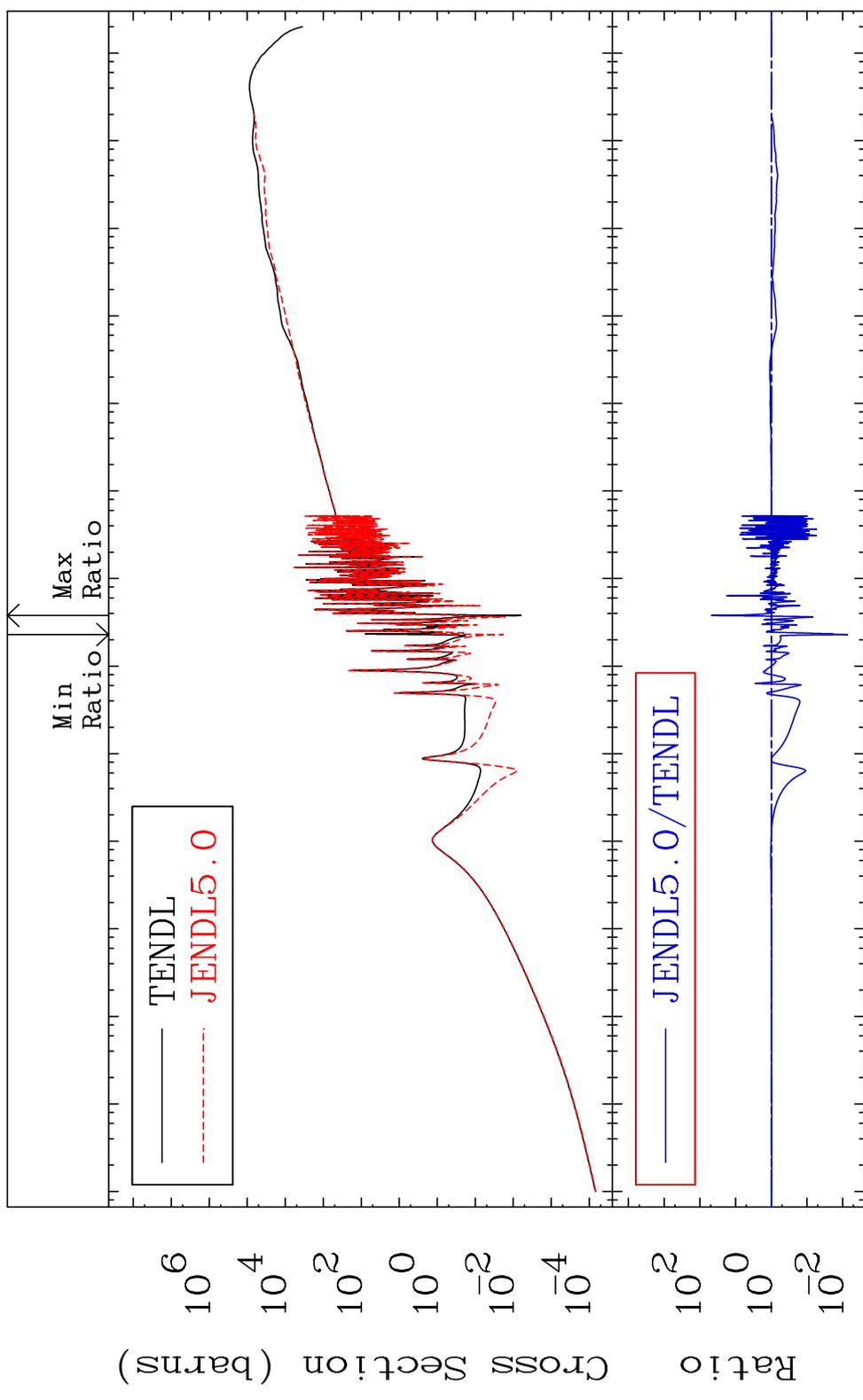
52 Incident Energy (eV) 62-Sm-149

MAT 6240 Kerma total (eV-barns) 62-Sm-149  
 Cross Section -99.05 To 369.8 %

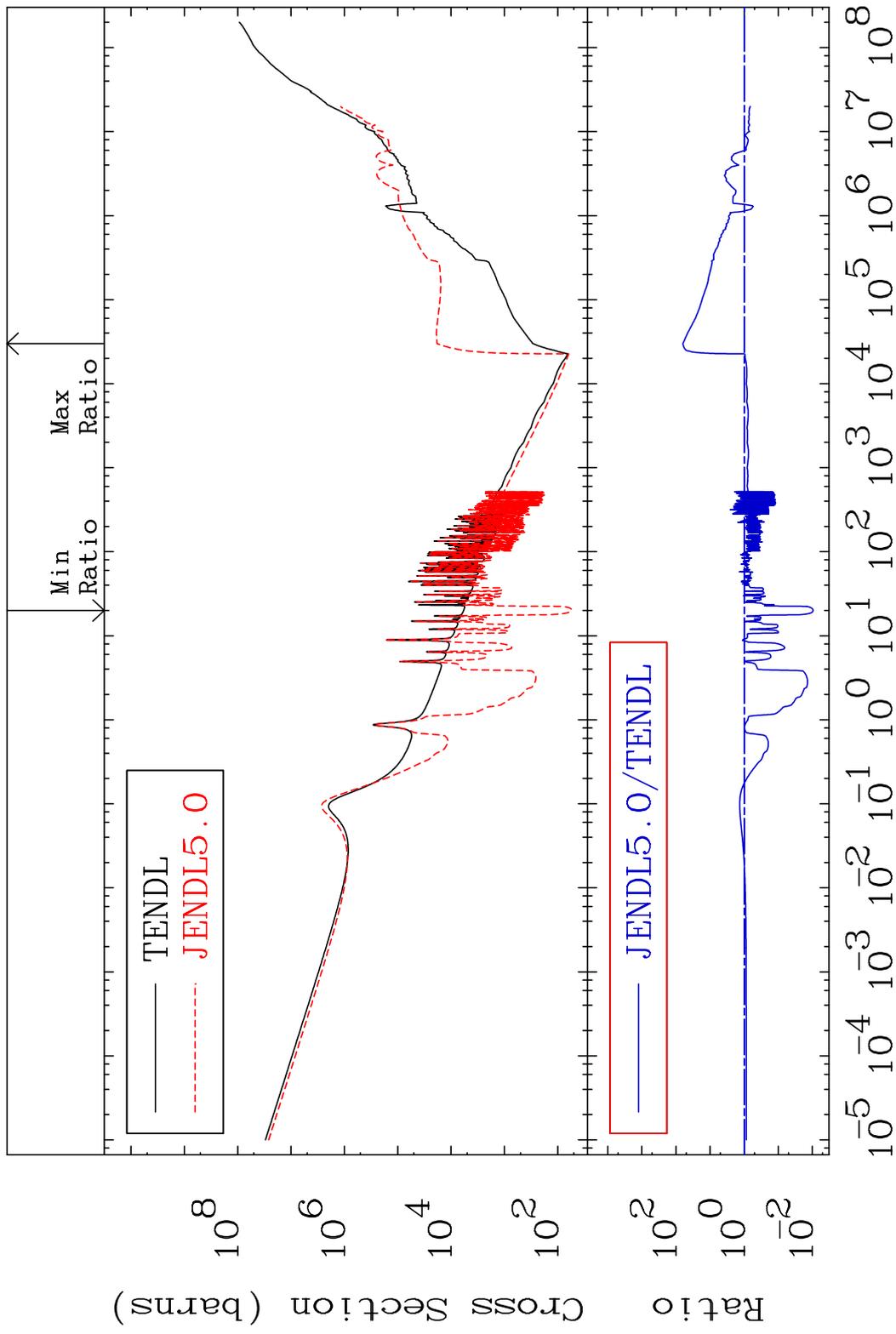


MAT 6240

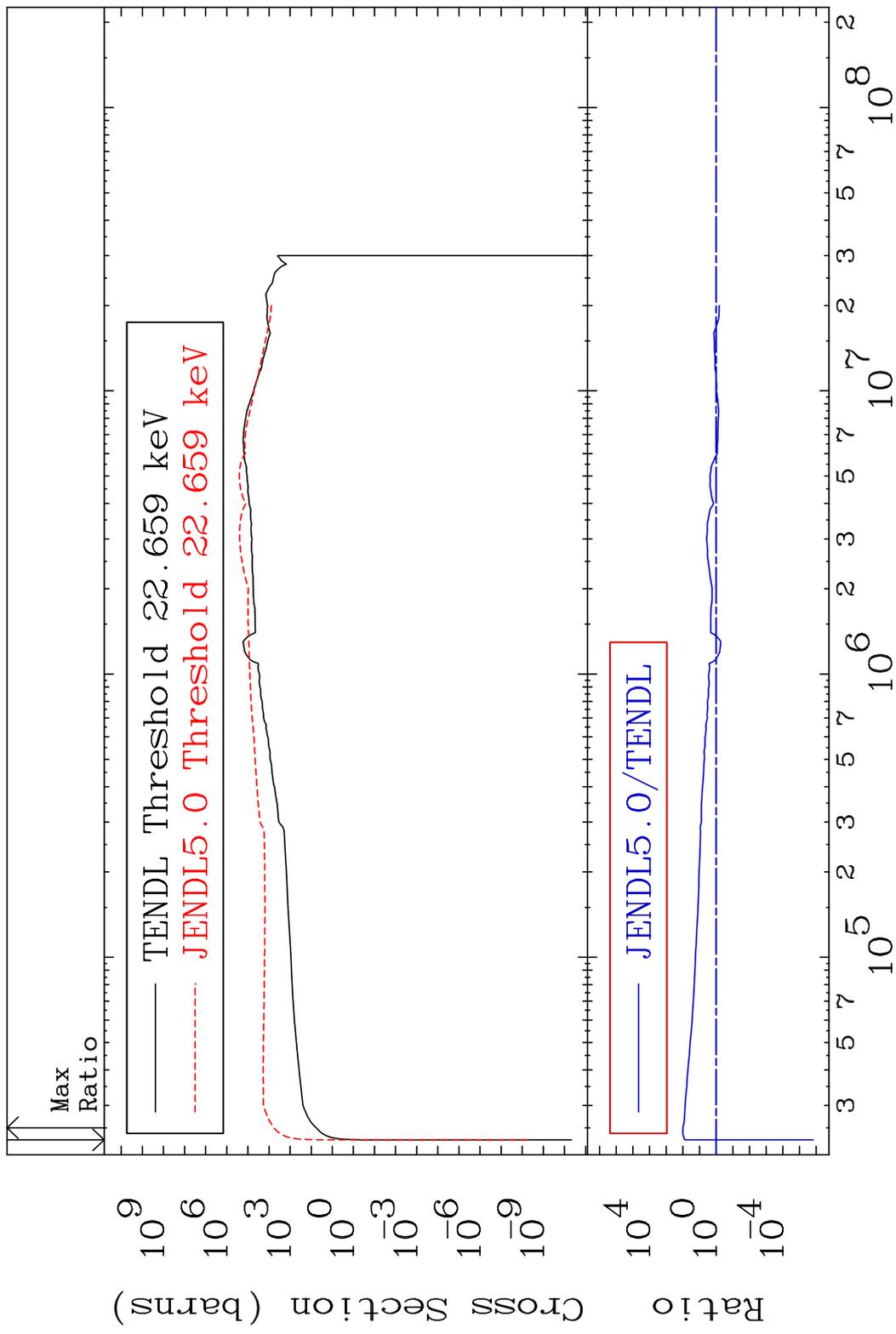
Kerma elastic Cross Section -99.27 To 4538. %  
62-Sm-149



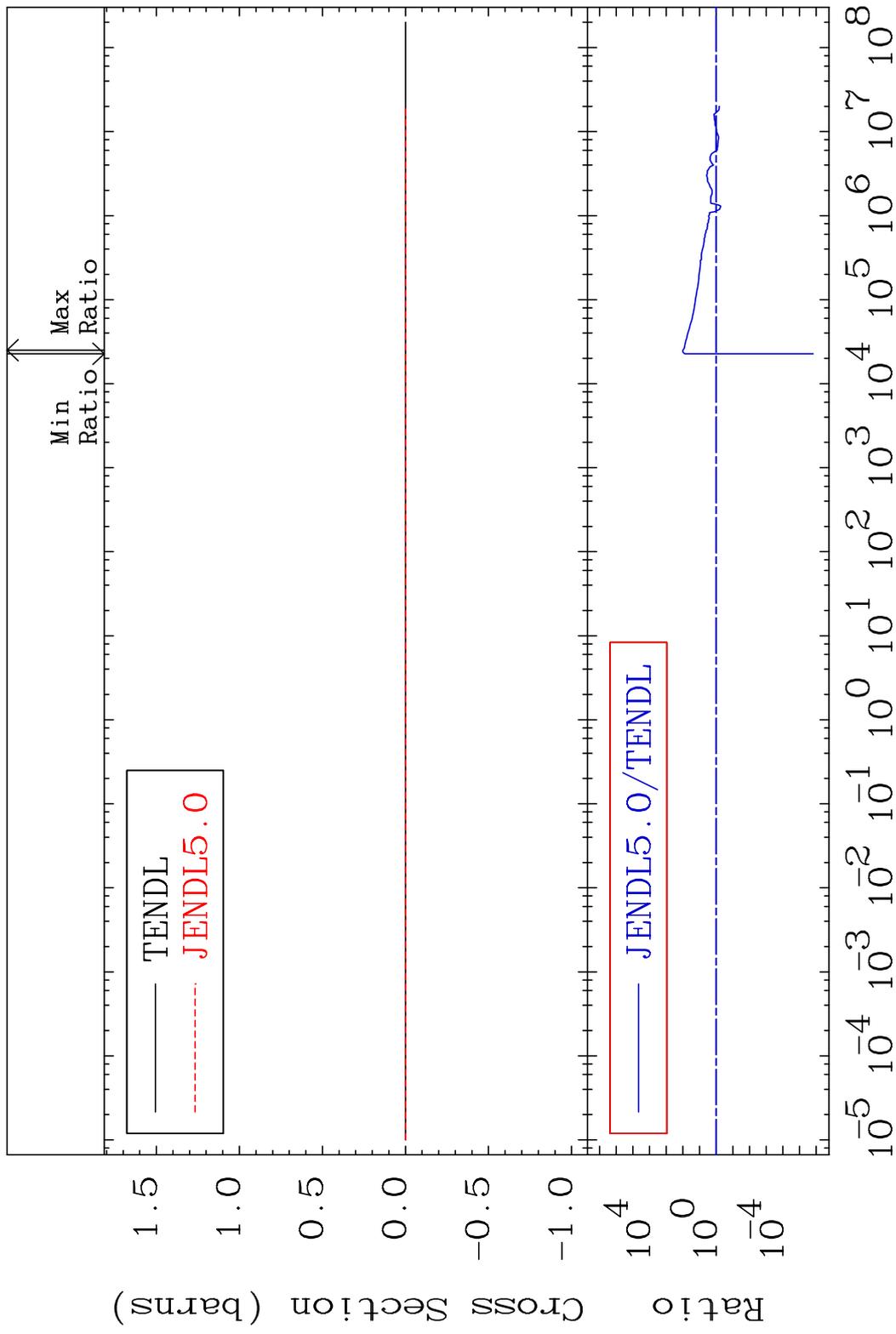
MAT 6240 Kerma non-elastic (all but mt2) 62-Sm-149  
 Cross Section -99.05 To 6184. %



MAT 6240 Kerma inelastic (mt51-91) 62-Sm-149  
 Cross Section -100.0 To 9999. %

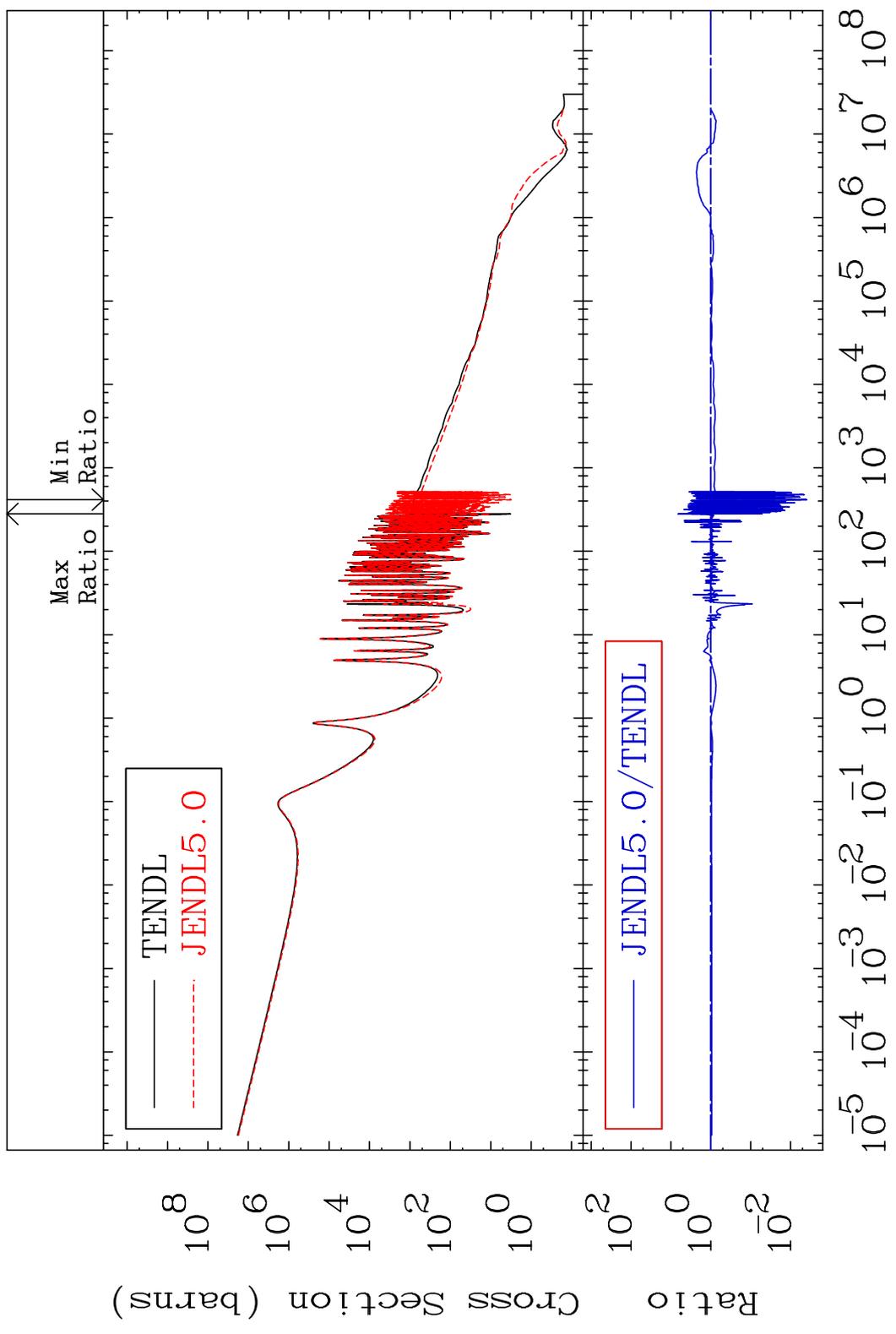


MAT 6240 Kerma fission (mt18 or mt19-20-21-38)  $^{62}\text{Sm}$ -149  
 Cross Section -100.0 To 9999. %



MAT 6240

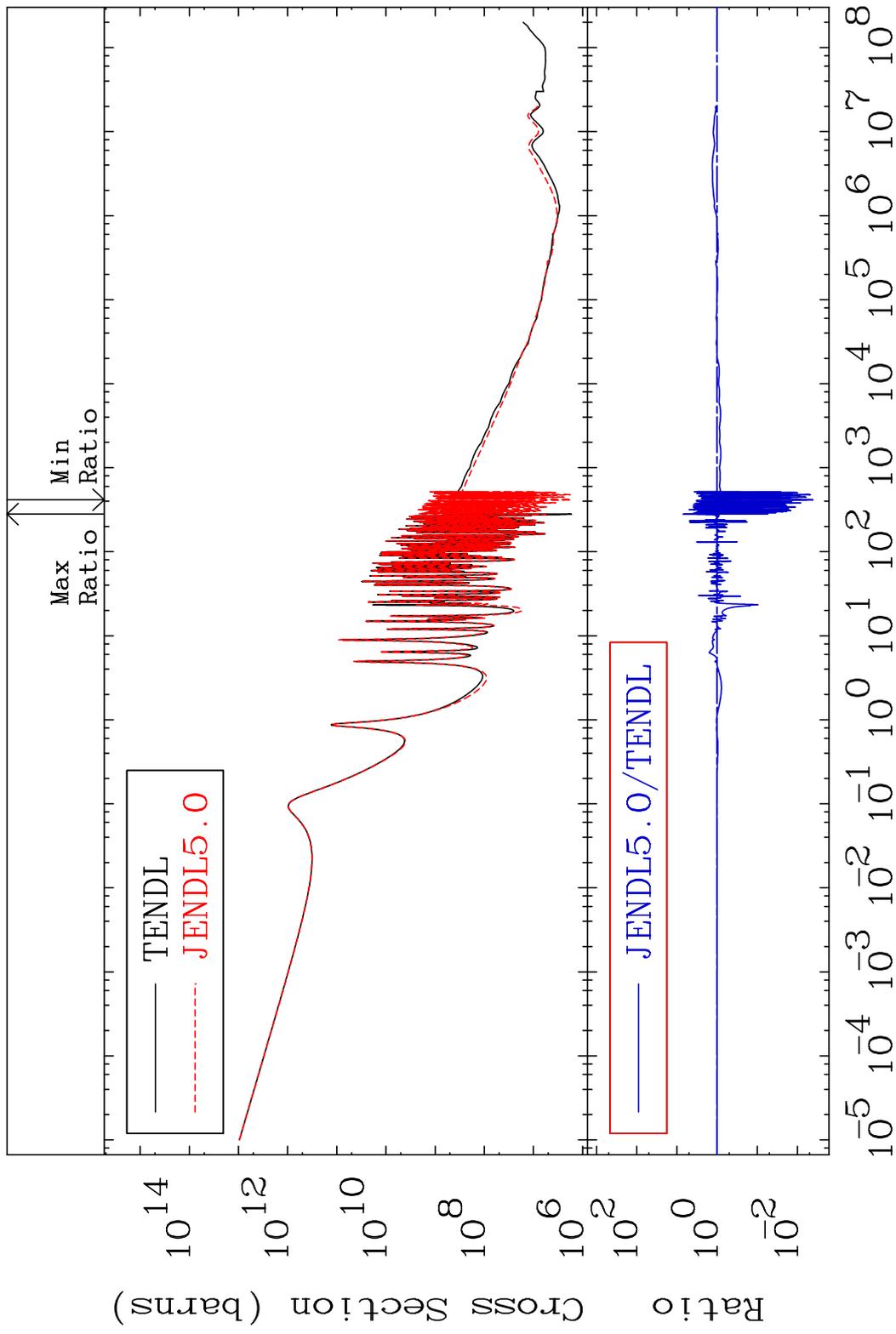
Kerma capture (mt102) 62-Sm-149  
Cross Section -99.61 To 577.8 %



58

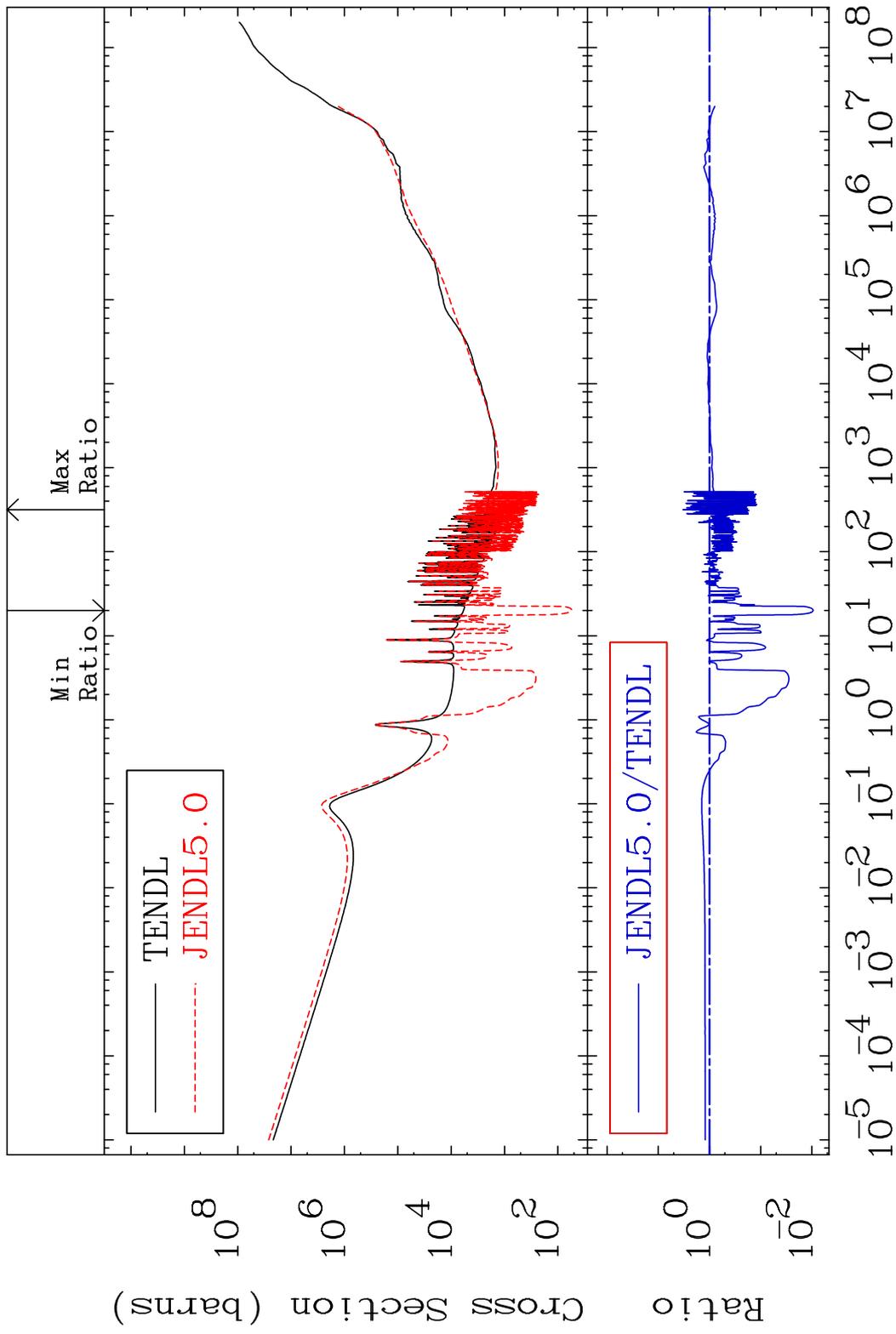
Incident Energy (eV) 62-Sm-149

MAT 6240 Total photon (eV-barns) 62-Sm-149  
Cross Section -99.59 To 611.7 %



59 Incident Energy (eV) 62-Sm-149

MAT 6240 Total kinematic kerma (high limit) 62-Sm-149  
Cross Section -99.05 To 231.5 %

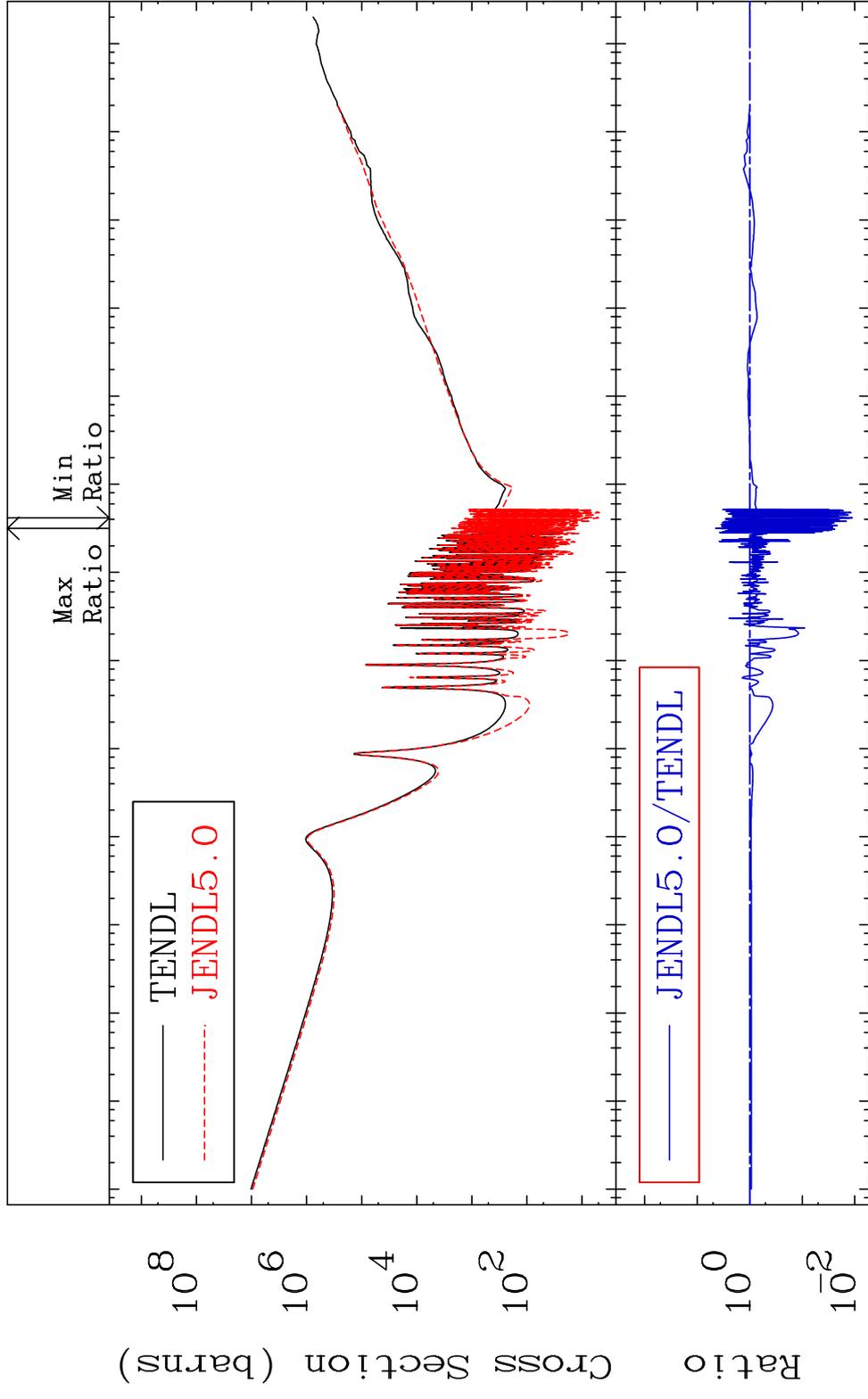


MAT 6240

Dpa total (eV-barns)

62-Sm-149

Cross Section -98.90 To 340.4 %



61

Incident Energy (eV)

62-Sm-149

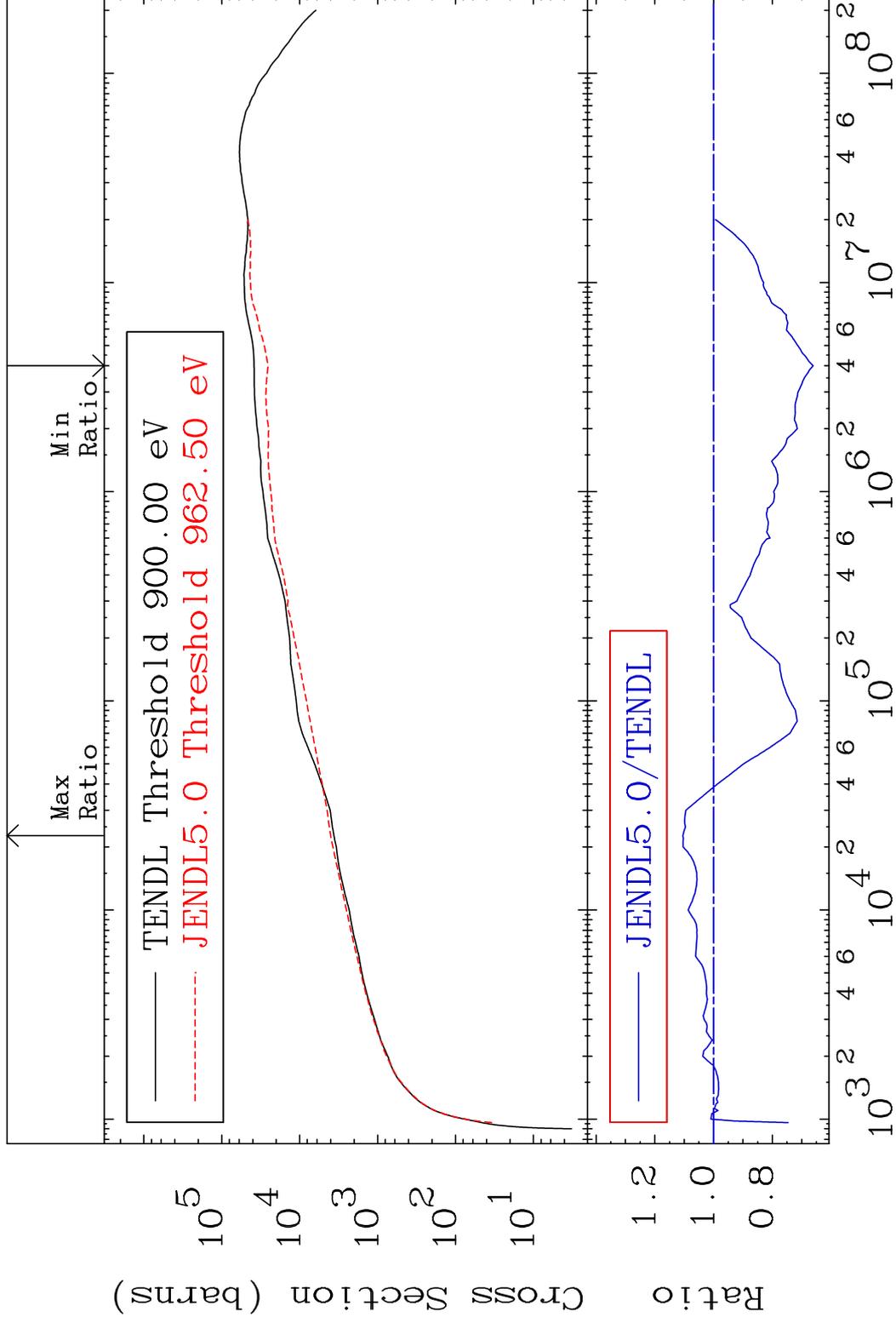
MAT 6240

Dpa elastic (mt2)

62-Sm-149

Cross Section

-33.88 To 10.47 %

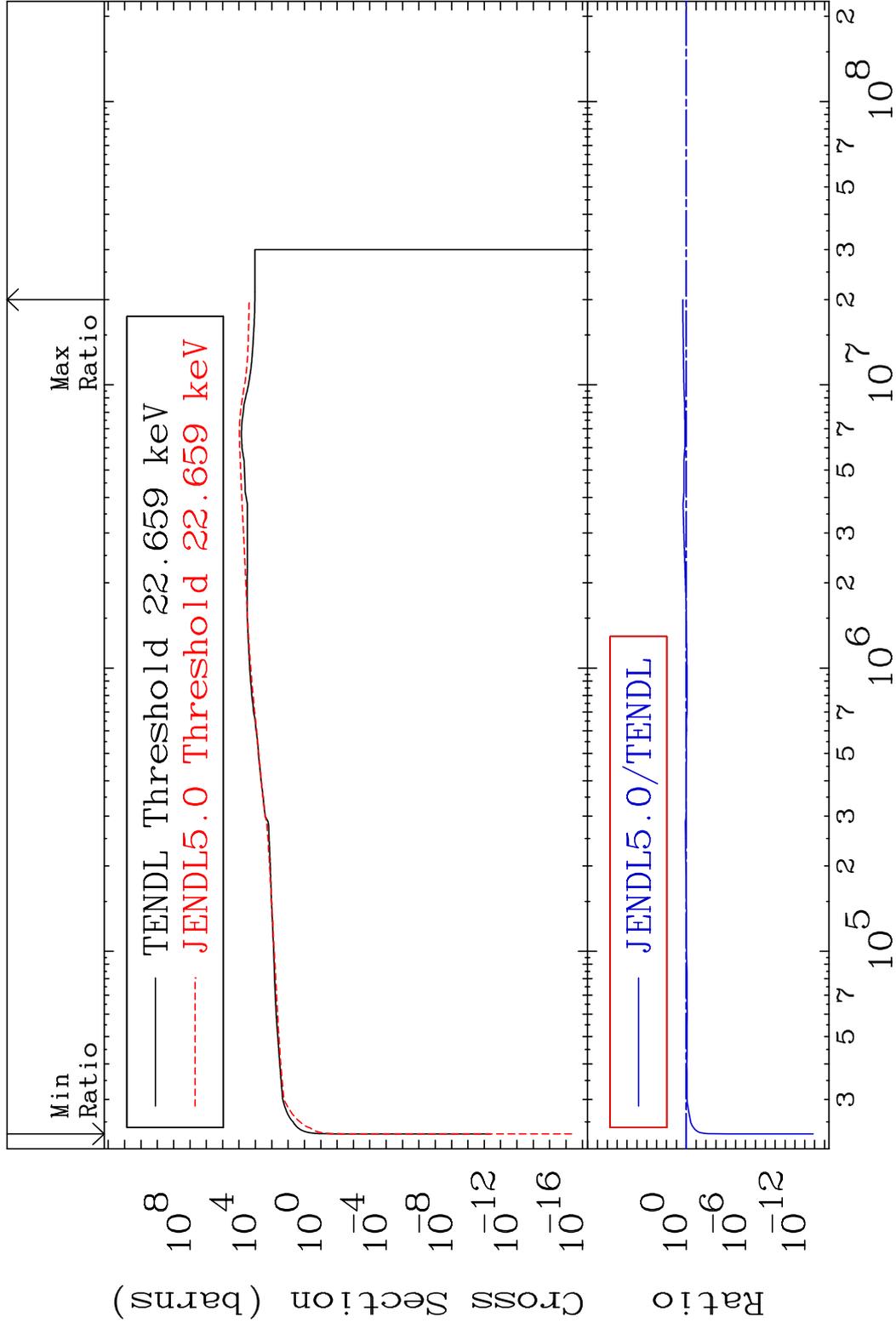


62

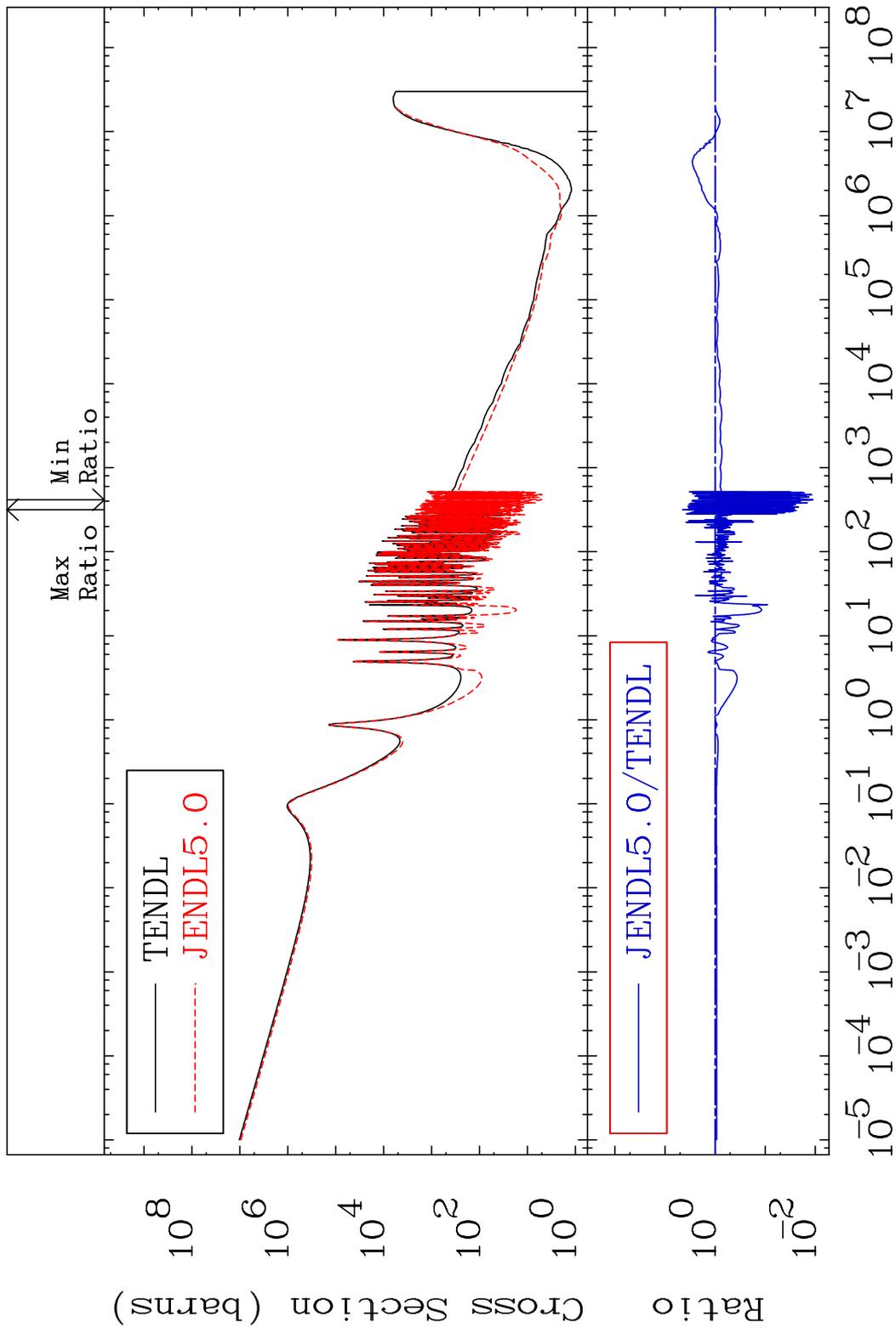
Incident Energy (eV)

62-Sm-149

MAT 6240 Dpa inelastic (mt51-91) 62-Sm-149  
 Cross Section -100.0 To 122.5 %

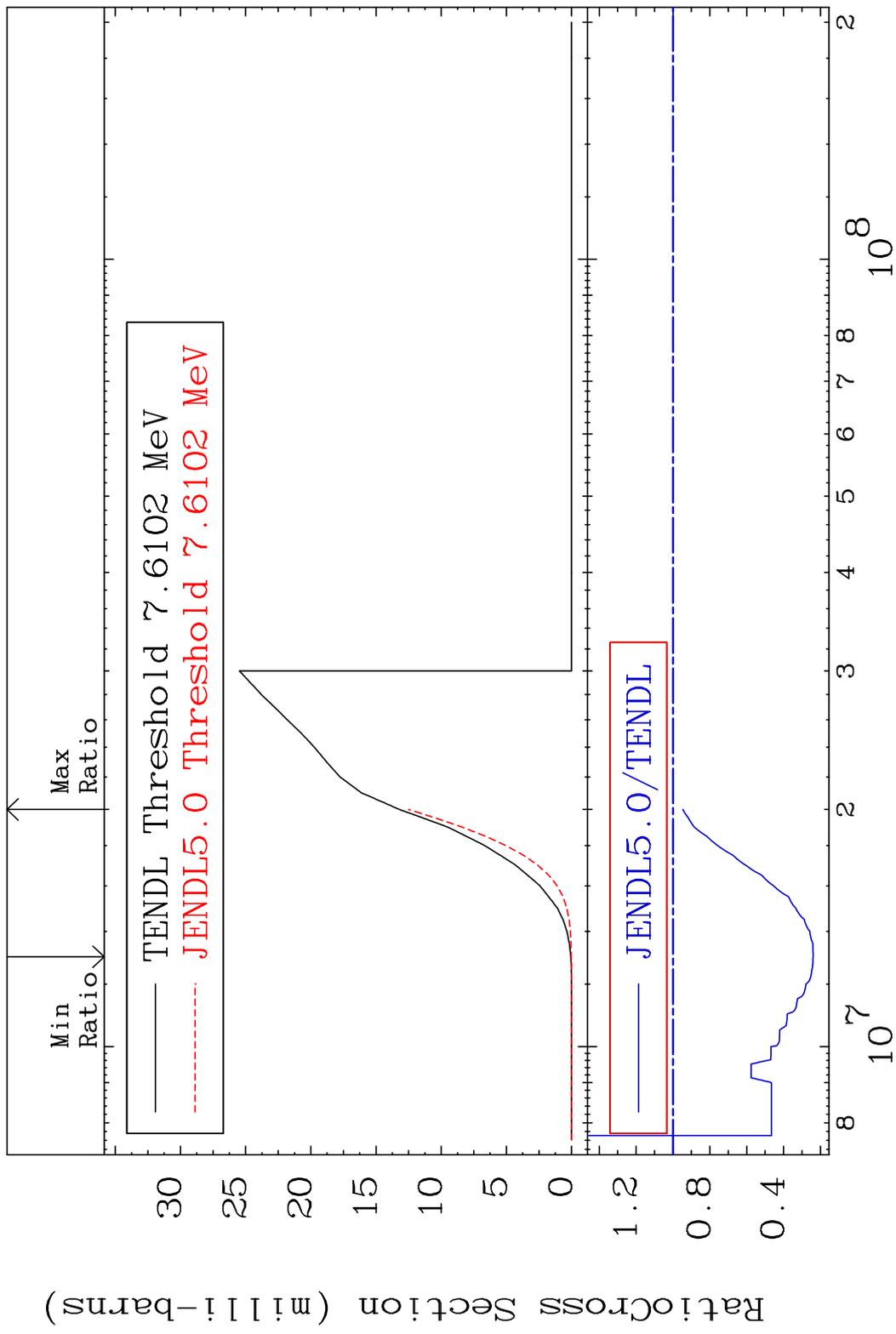


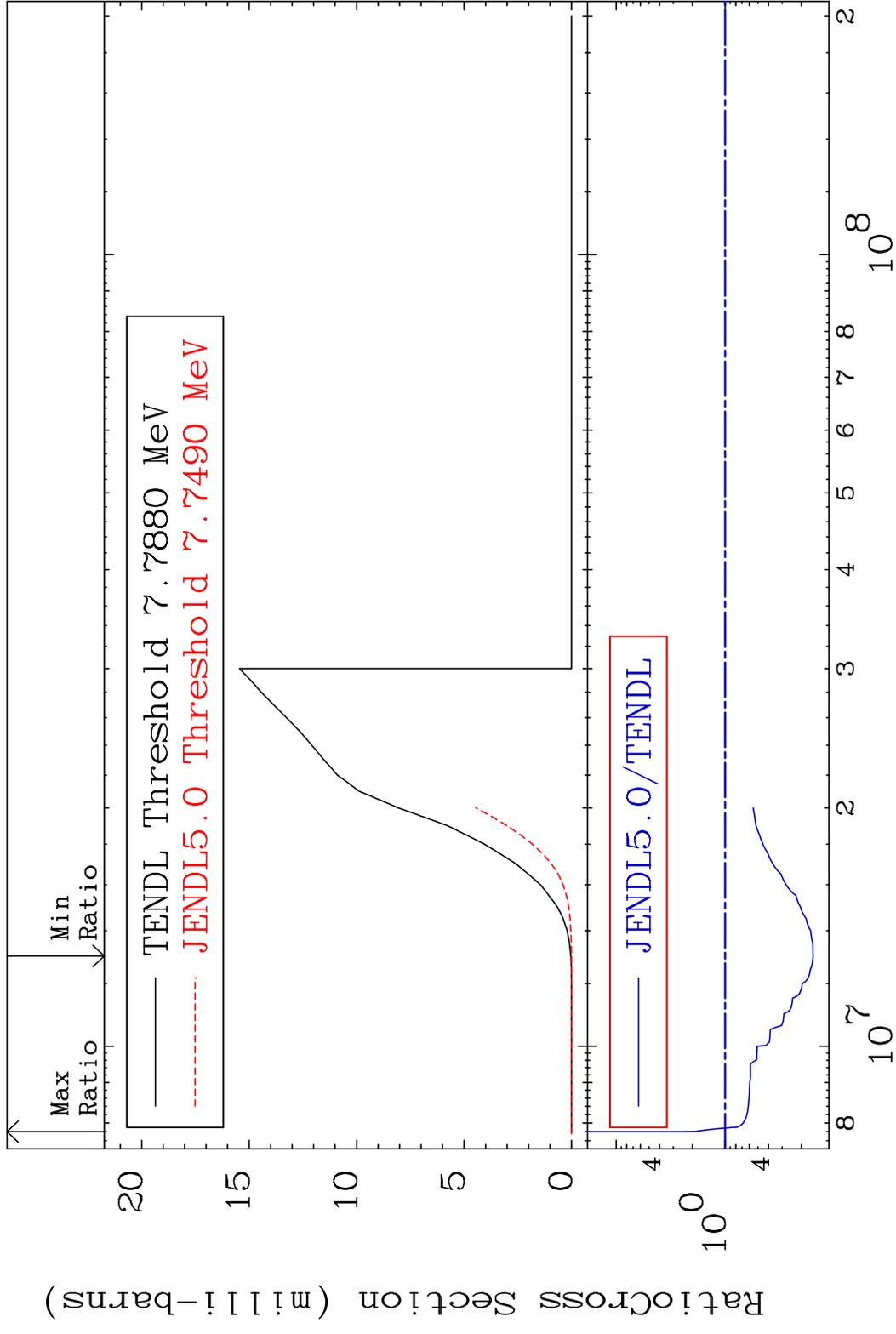
MAT 6240 Dpa disappearance (mt102 -120) 62-Sm-149  
 Cross Section -98.90 To 340.4 %



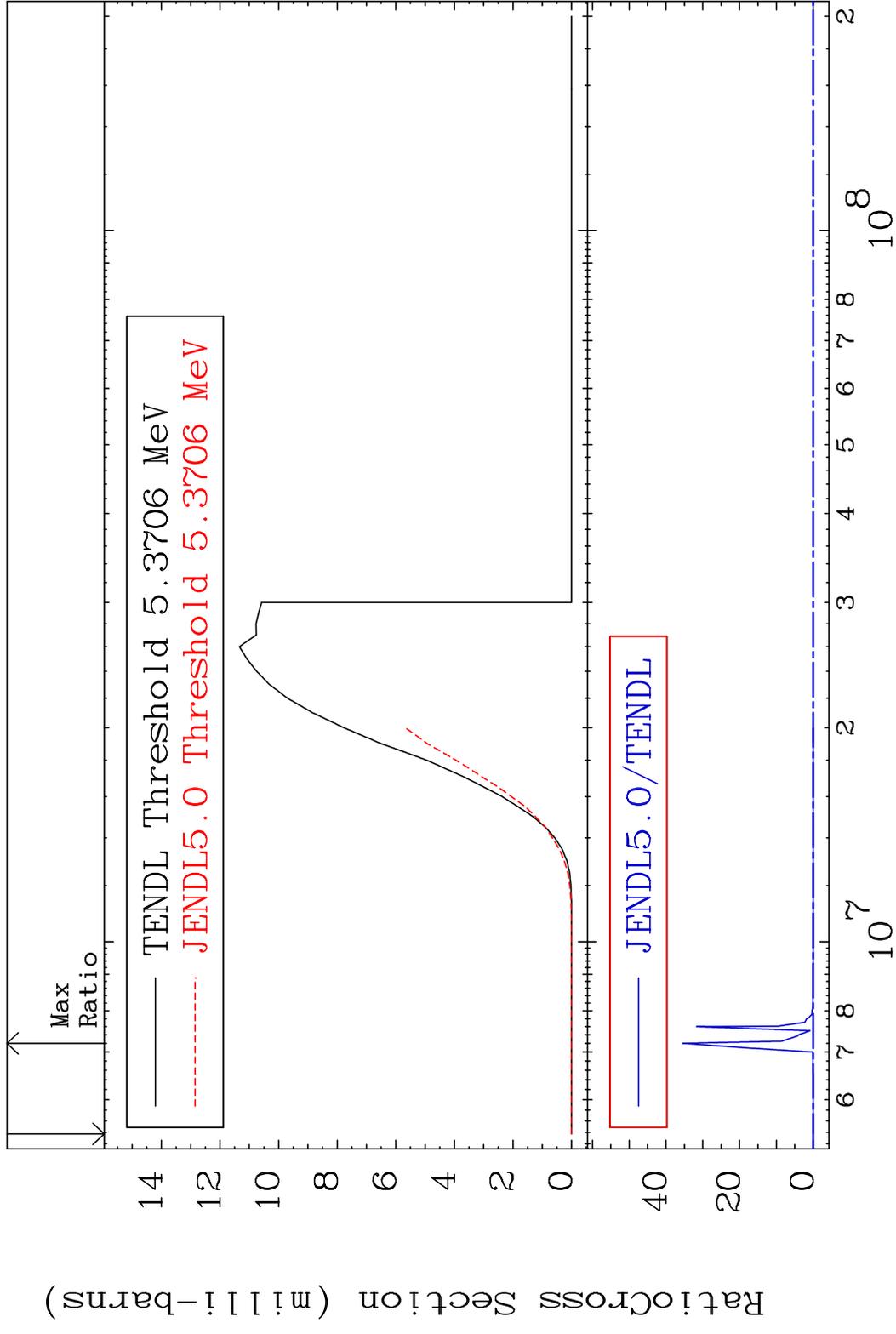
64 Incident Energy (eV) 62-Sm-149

MAT 6240 (n, n') p:61-Pm-148g 62-Sm-149  
 Radionuclide Production Cross Section -5.367%





MAT 6240 (n, d):61-Pm-148g 62-Sm-149  
 Radionuclide Production Cross Section Ratio 9999. %



MAT 6240 (n, d): 61-Pm-148m3 62-Sm-149  
 Radionuclide Production Cross Section to 9999. %

