

Program Complot  
(Version 2021-1)

by

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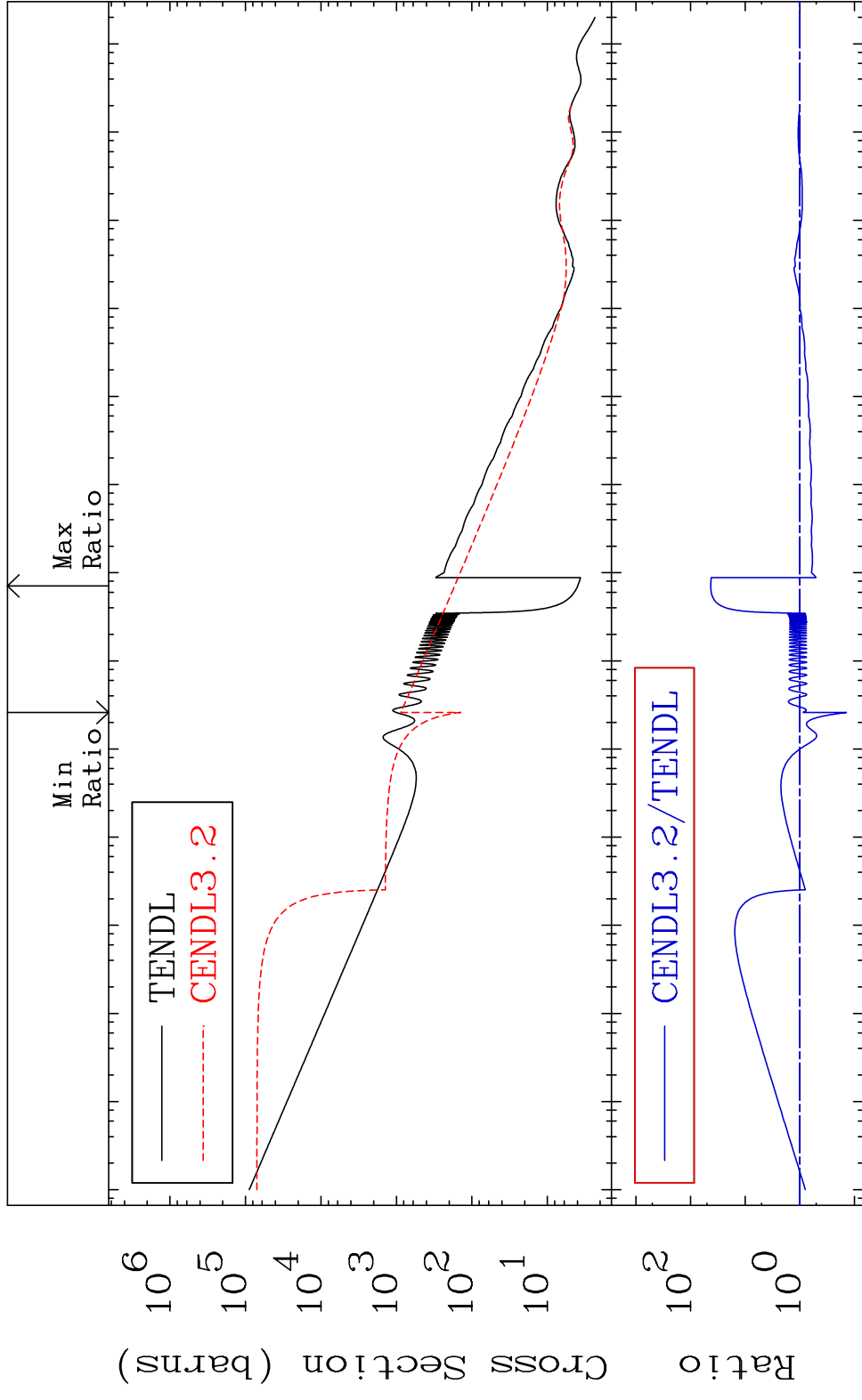
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6155

Total  
Cross Section -85.94 To 4171. %

61-Pm-149



10<sup>6</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>-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>

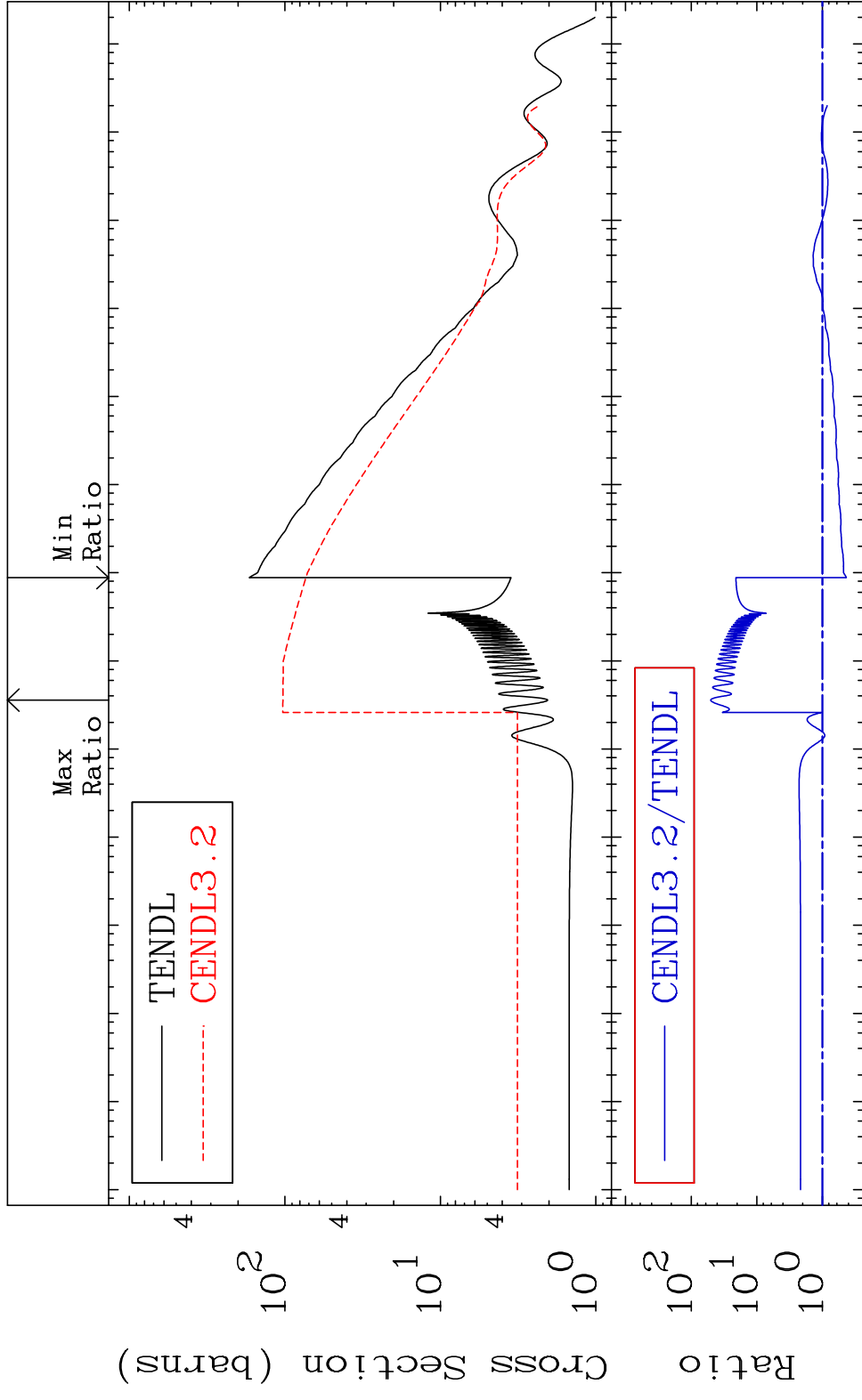
1 Incident Energy (eV) 61-Pm-149

MAT 6155

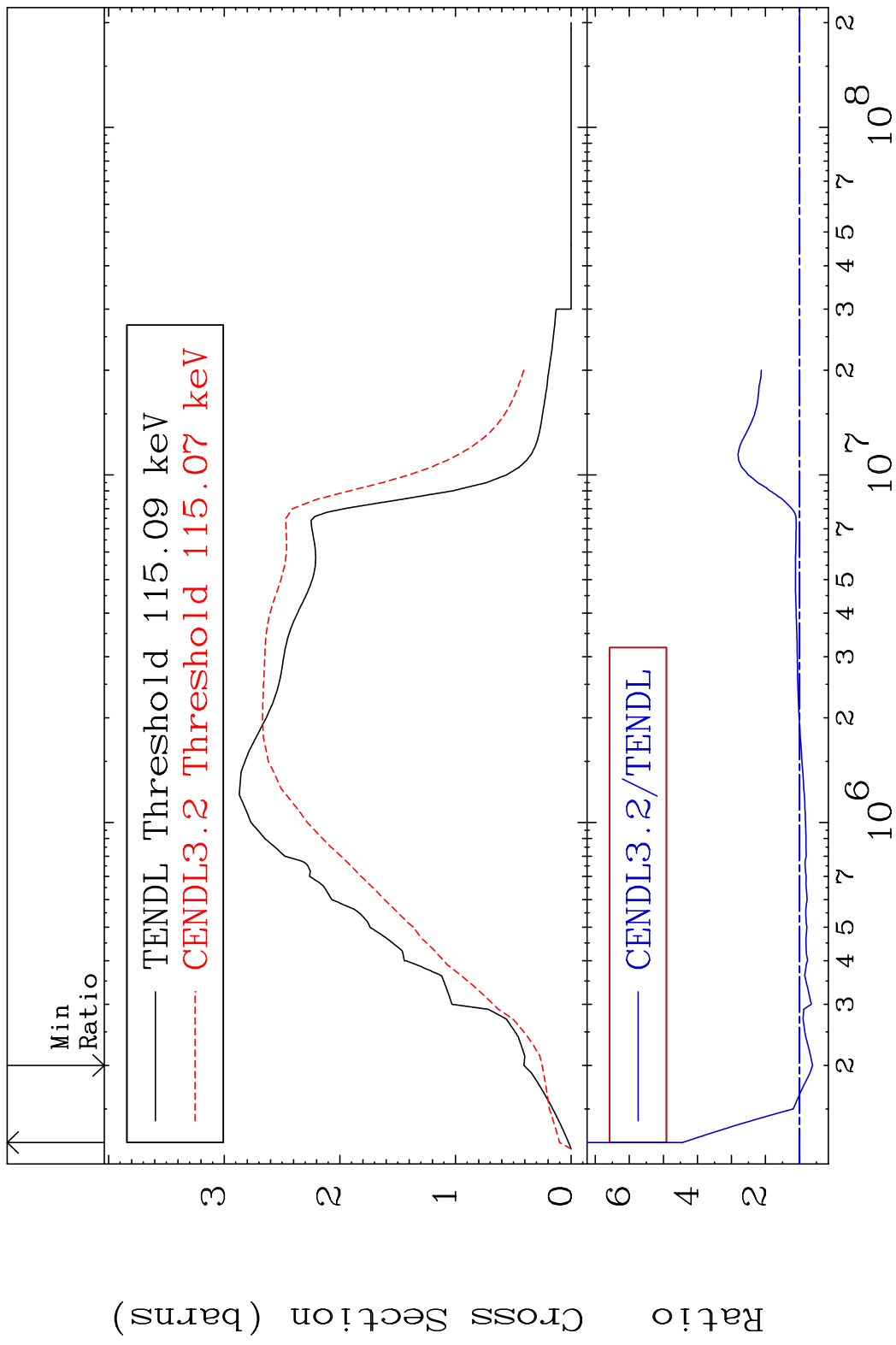
Elastic

61-Pm-149

Cross Section -56.81 To 4936. %



MAT 6155 Inelastic 61-Pm-149  
 Cross Section -38.22 To 344.3 %

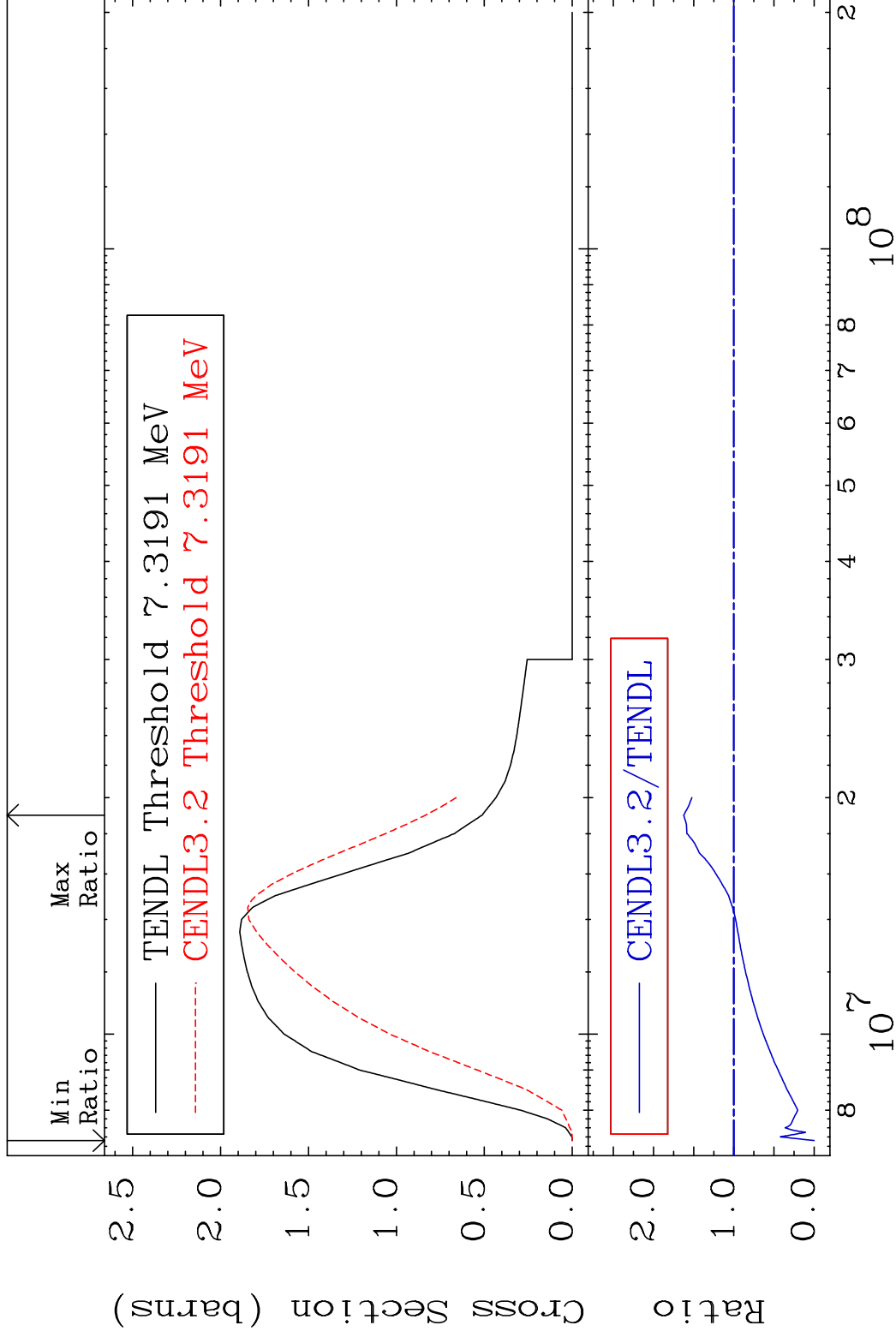


MAT 6155

(n,2n)

61-Pm-149

Cross Section -100.0 To 62.48 %



4

Incident Energy (eV)

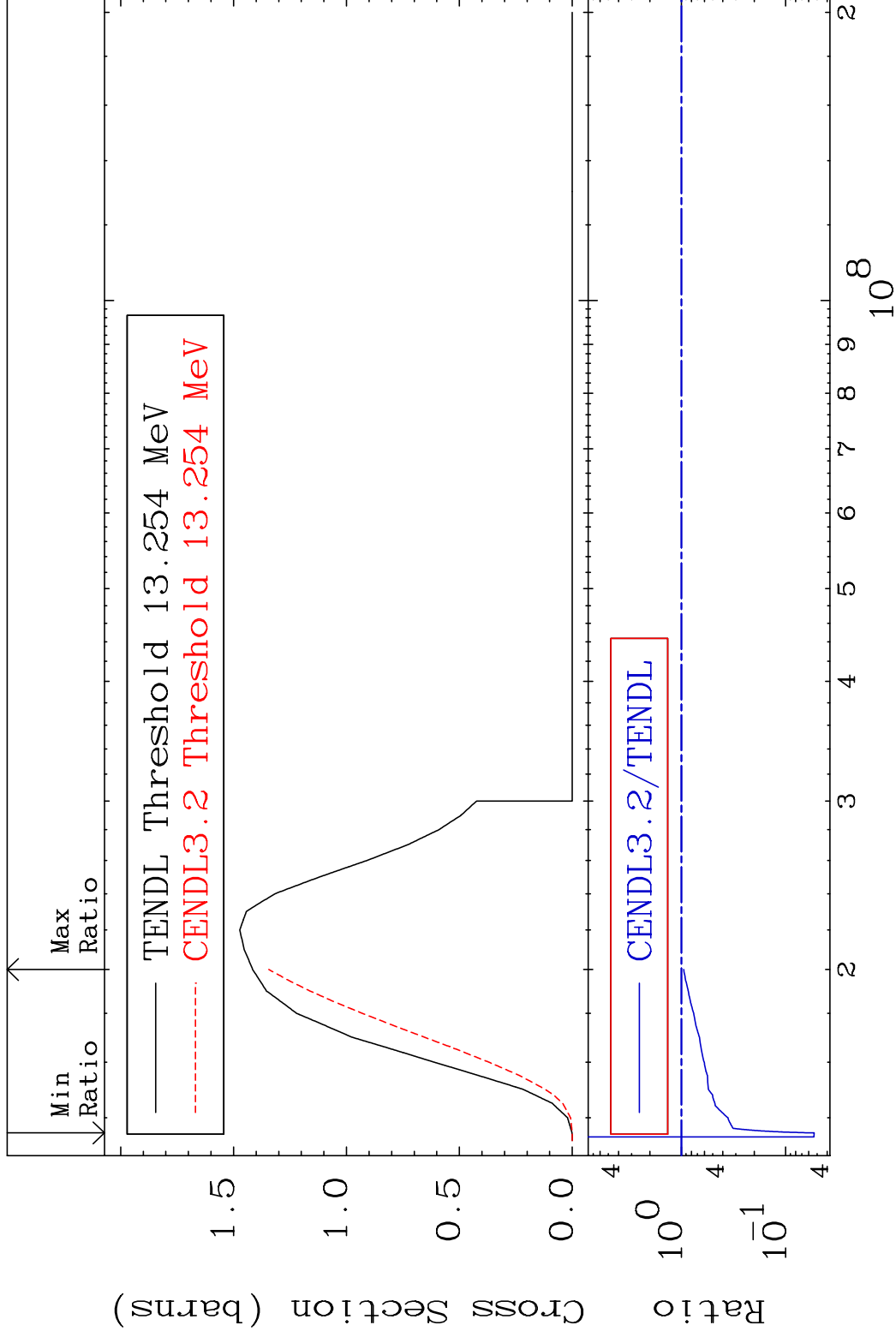
61-Pm-149

MAT 6155

(n,3n)

61-Pm-149

Cross Section -94.67 To -5.061%



5

Incident Energy (eV)

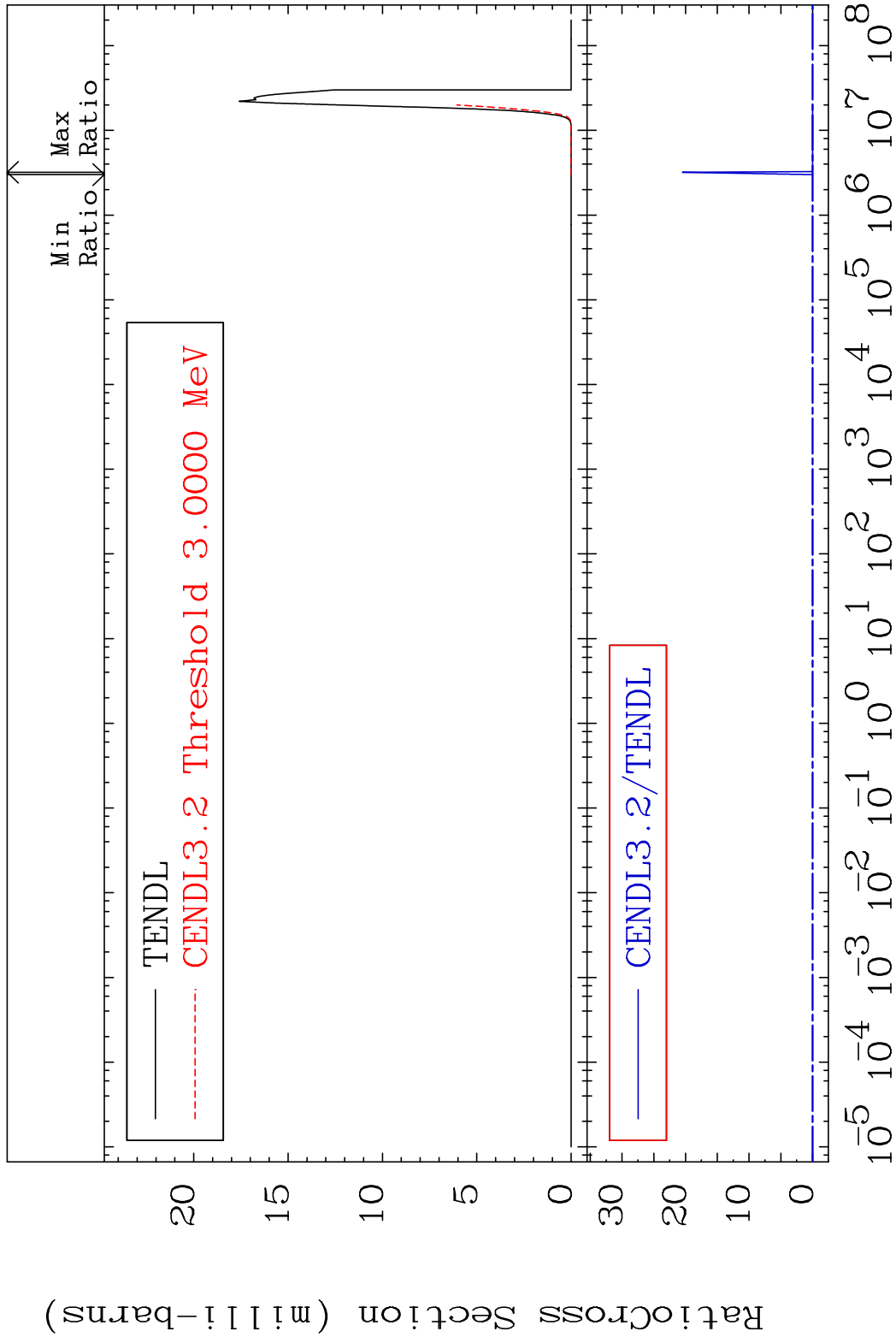
61-Pm-149

MAT 6155

(n, n')  $\alpha$

61-Pm-149

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

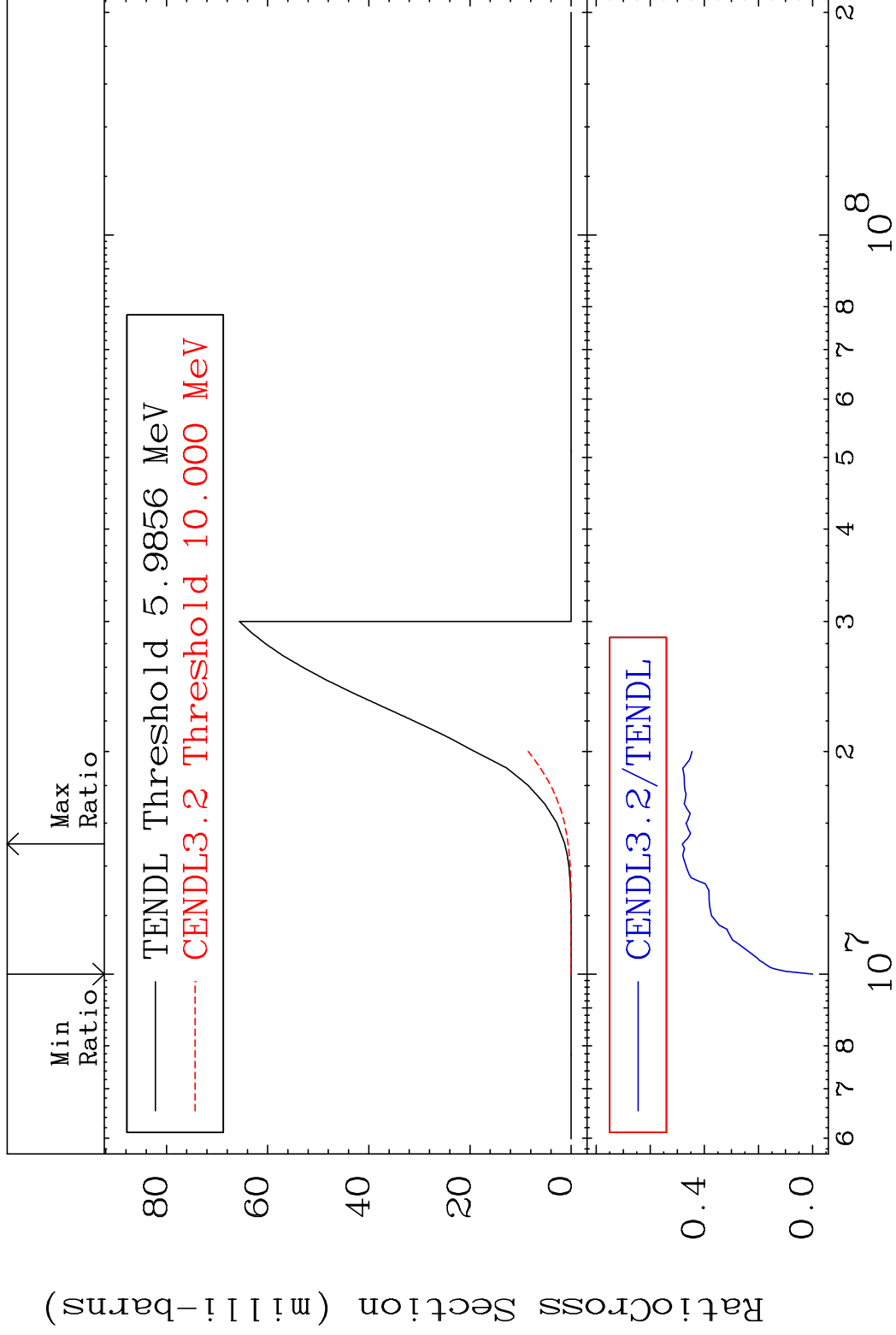
61-Pm-149

MAT 6155

(n, n') p

61-Pm-149

Cross Section -100.0 To -51.86%



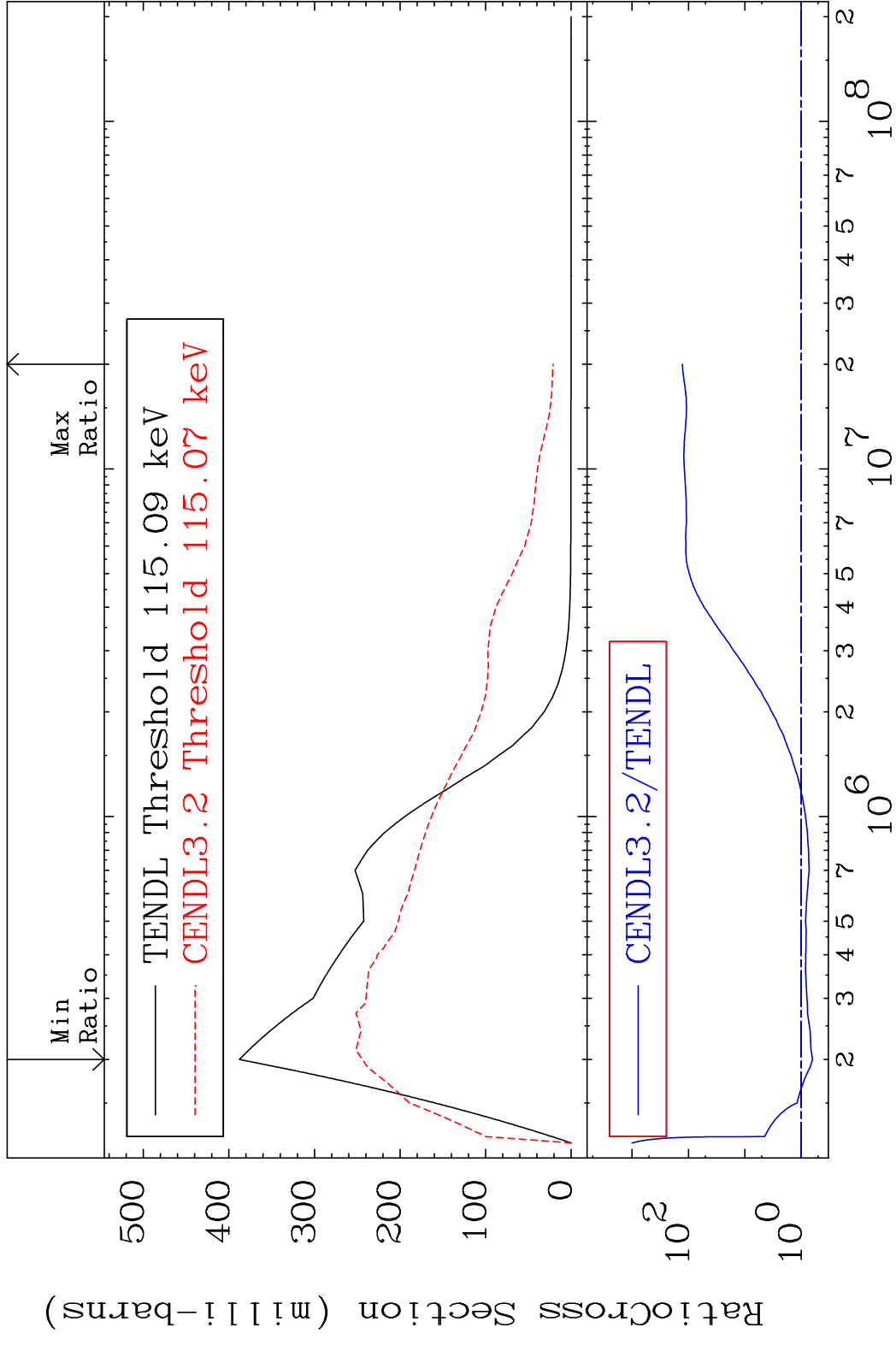
7

Incident Energy (eV)

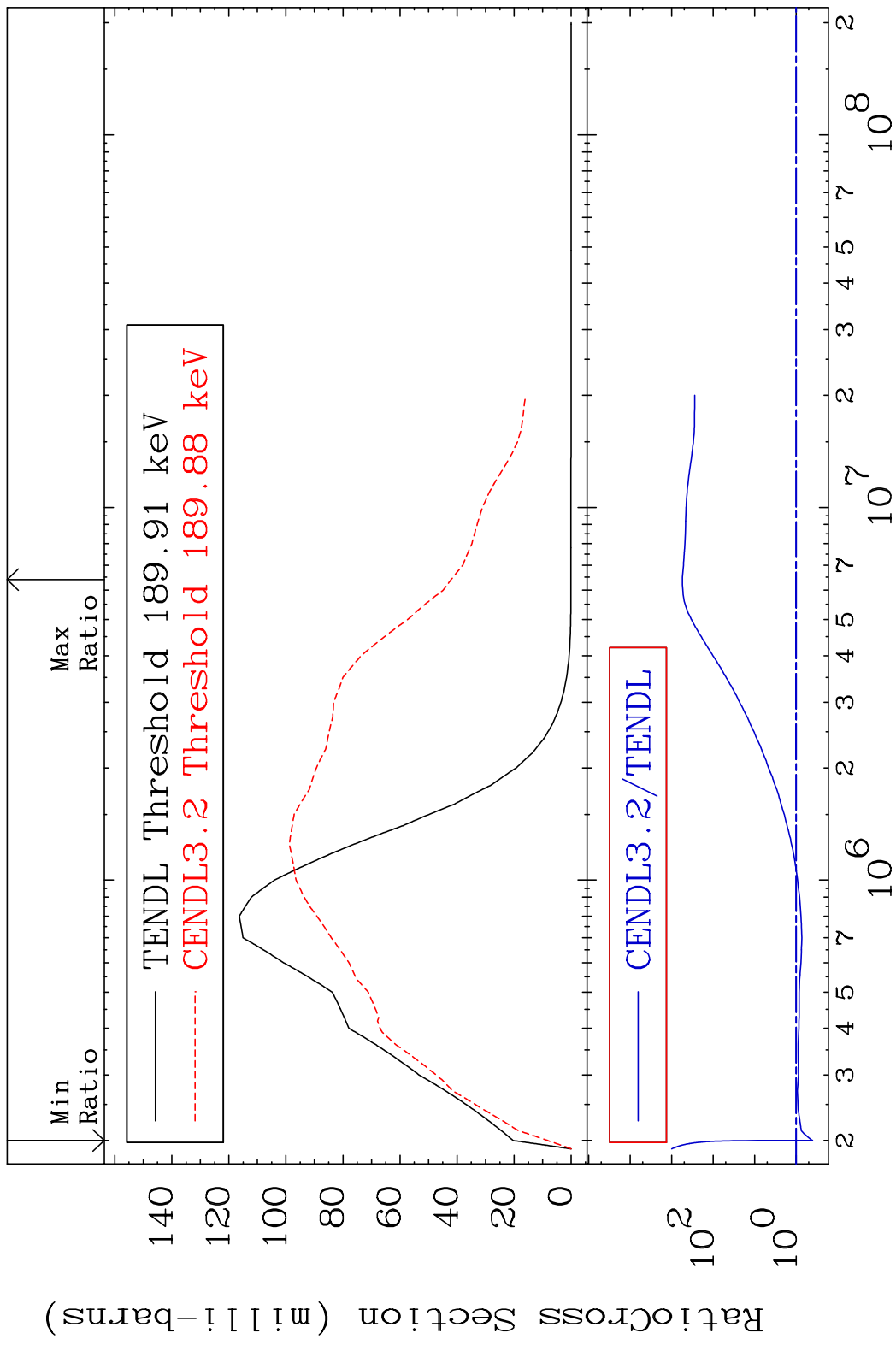
61-Pm-149



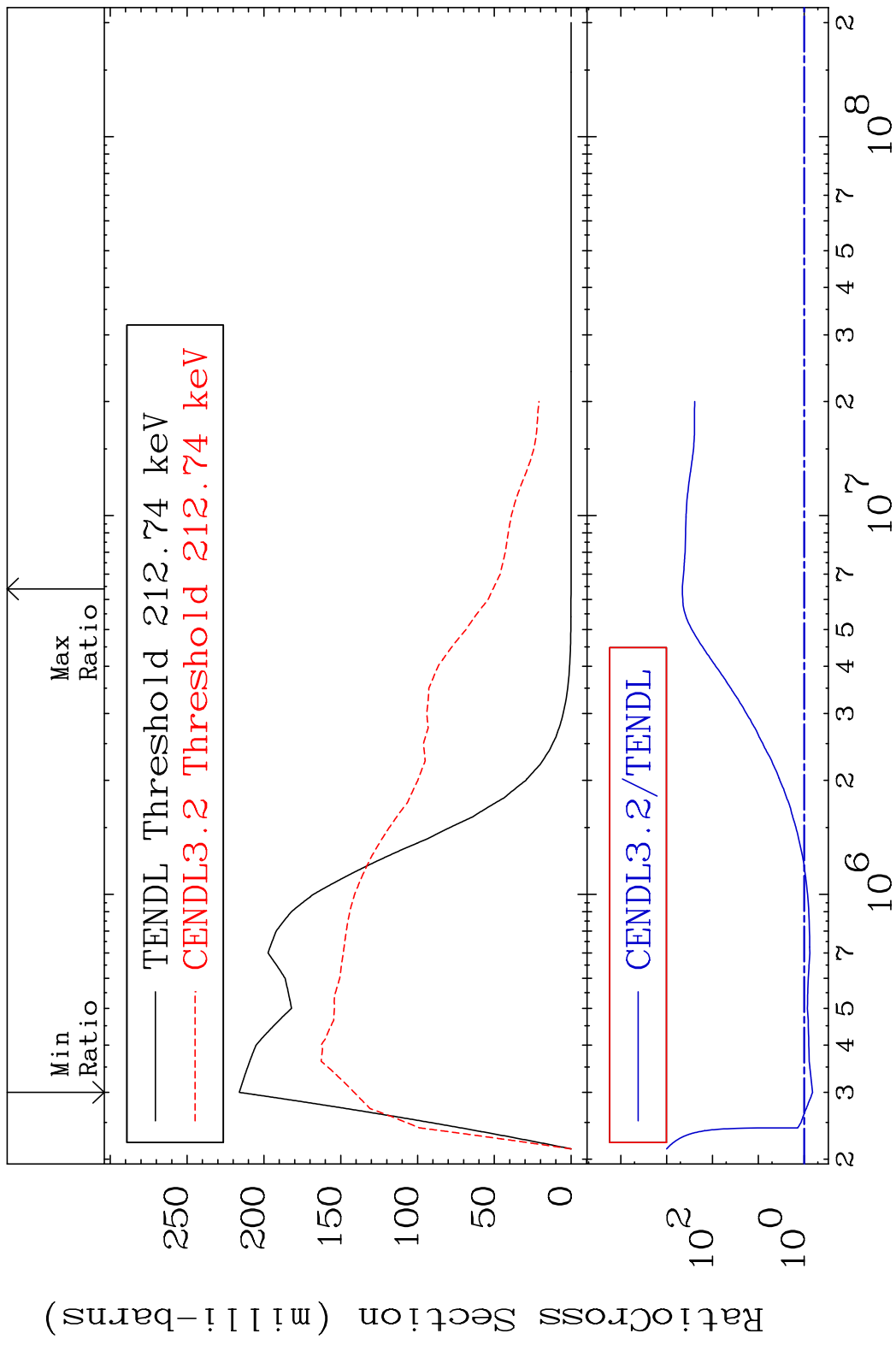
MAT 6155 MT= 51 (n, n') Level 61-Pm-149  
 Cross Section -37.10 To 9999. %



MAT 6155 MT= 52 (n, n') Level 61-Pm-149  
 Cross Section -59.52 To 9999. %

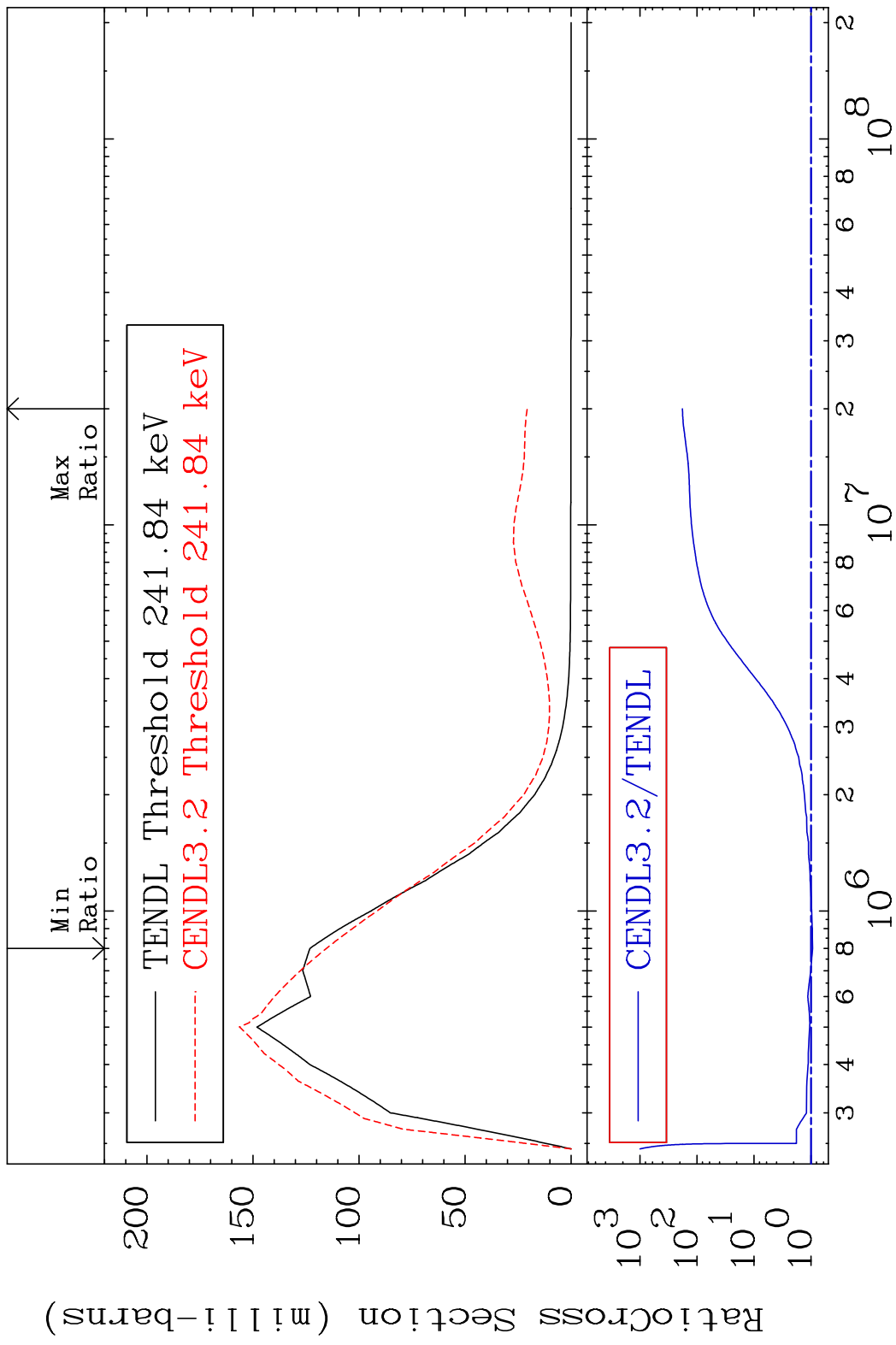


MAT 6155 MT= 53 (n, n') Level 61-Pm-149  
 Cross Section -34.61 To 9999. %

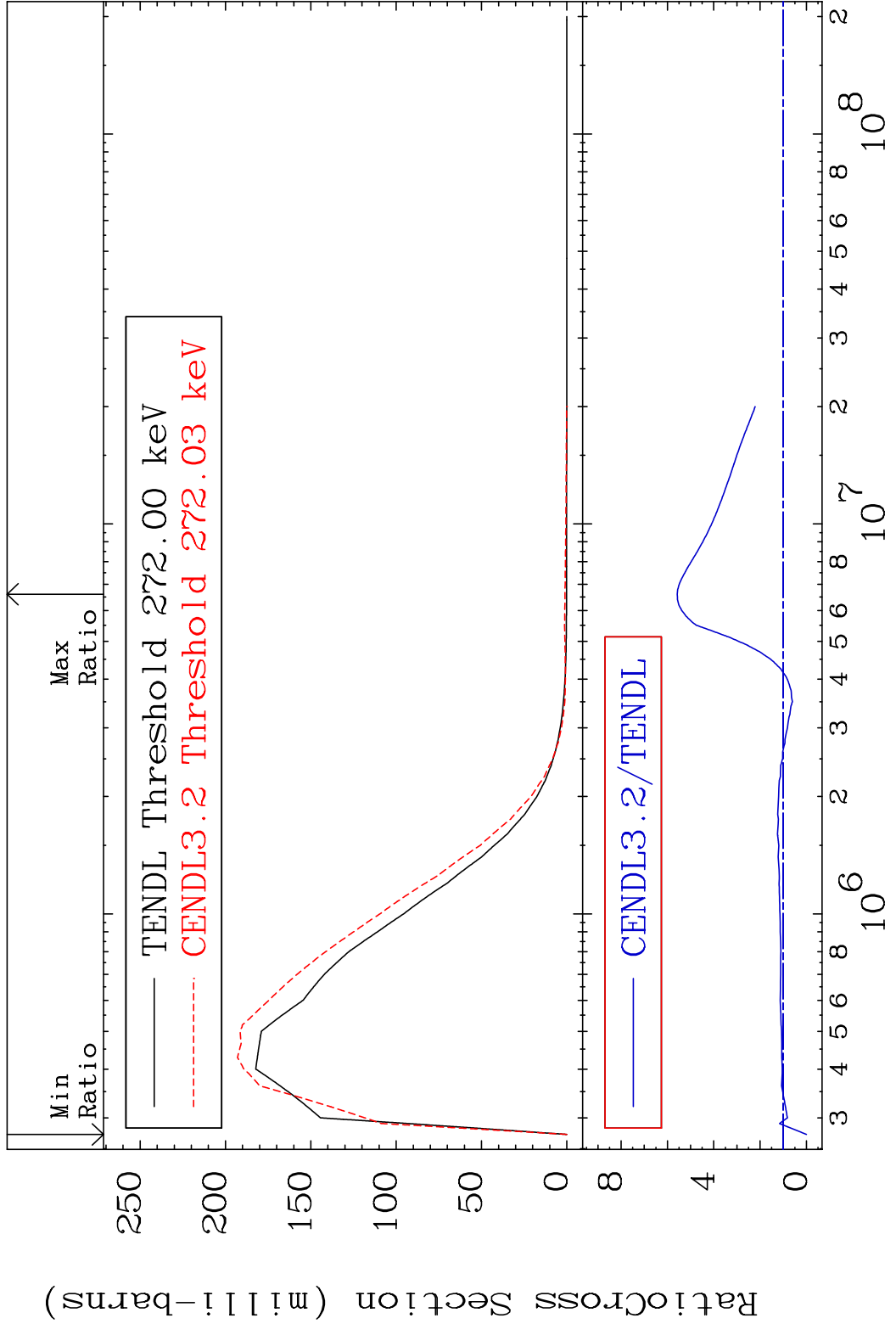


10 Incident Energy (eV) 61-Pm-149

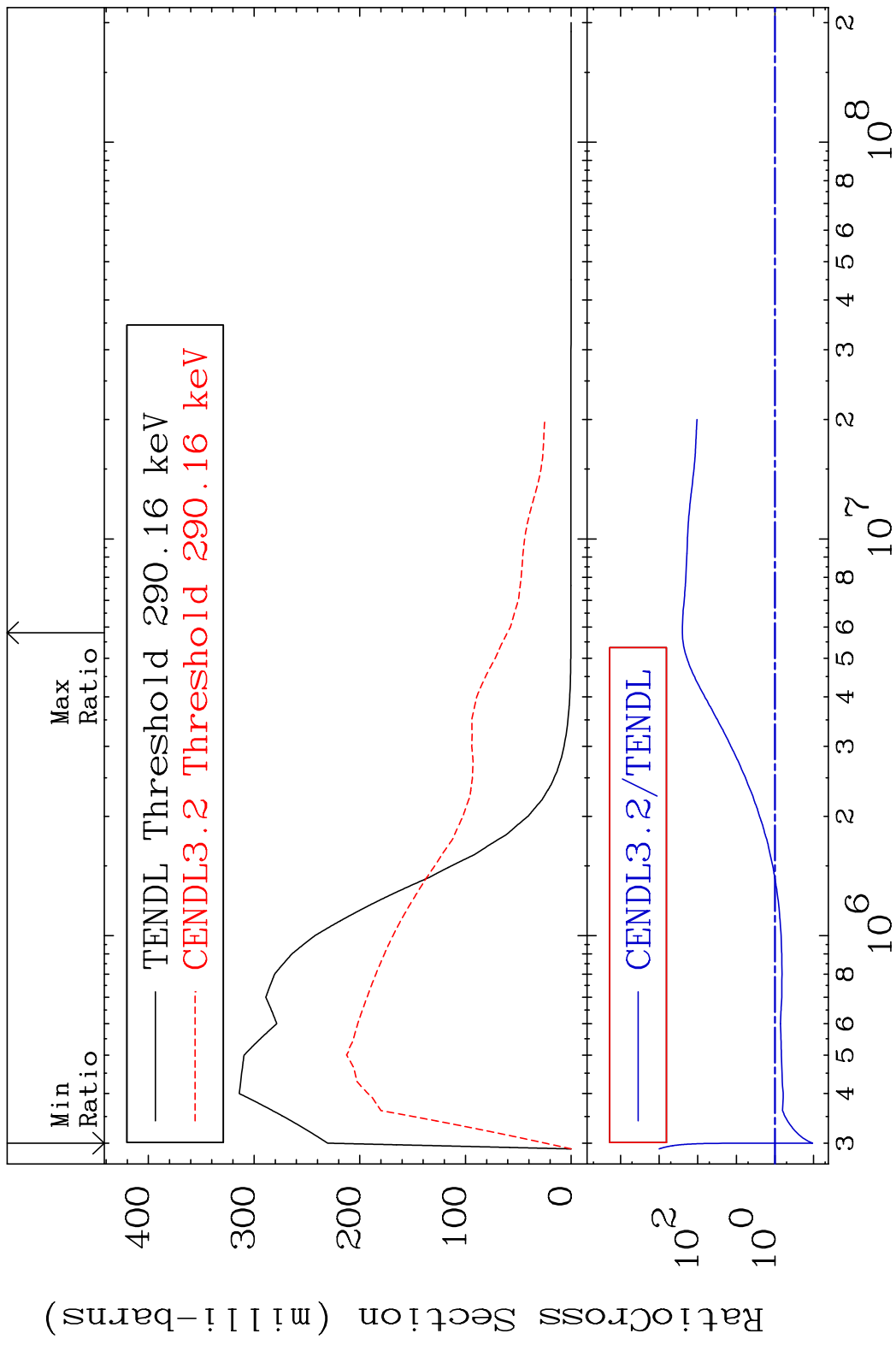
MAT 6155 MT= 54 (n, n') Level 61-Pm-149  
 Cross Section -6.335 To 9999. %



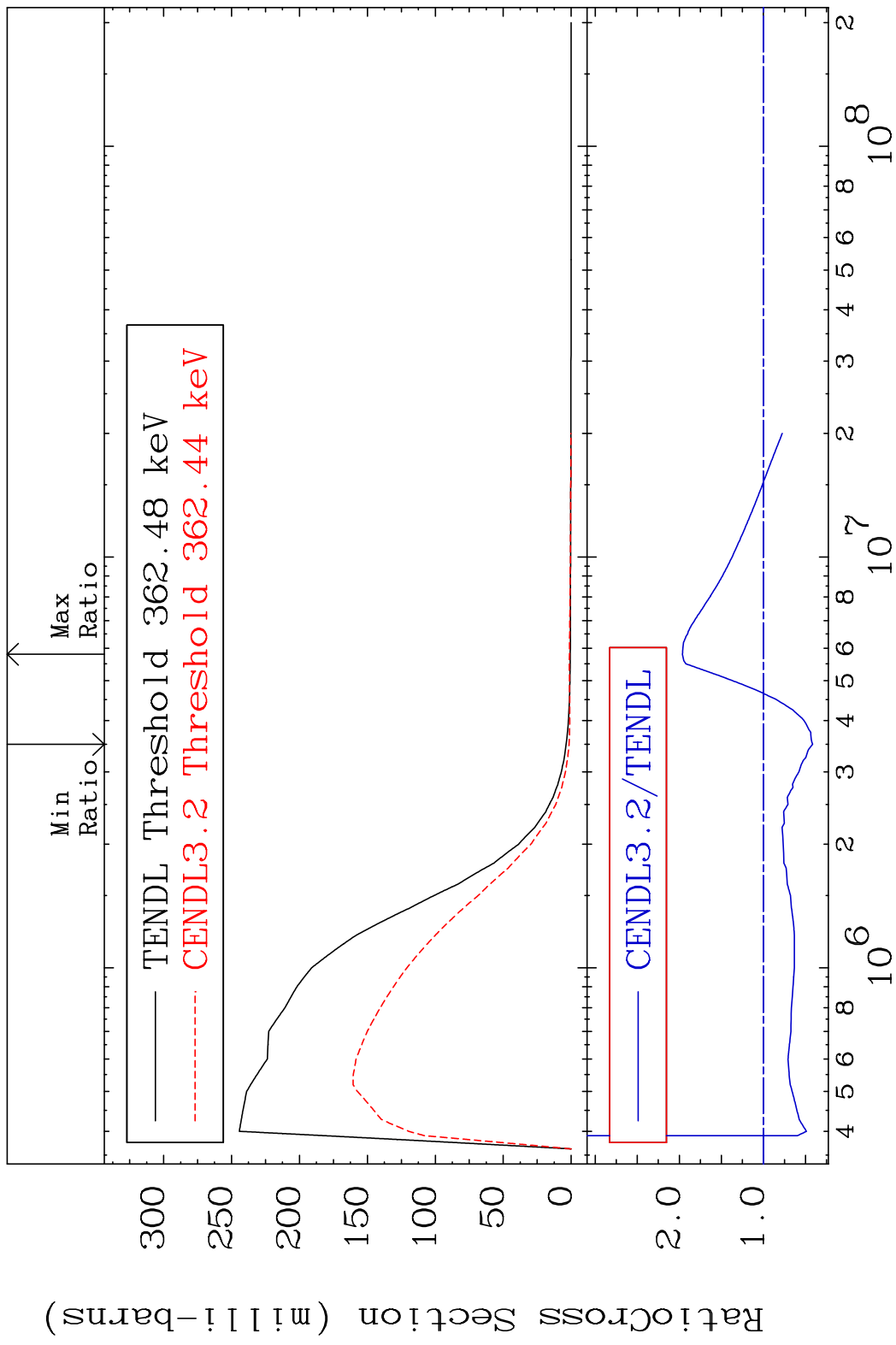
MAT 6155 MT= 55 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 457.9 %



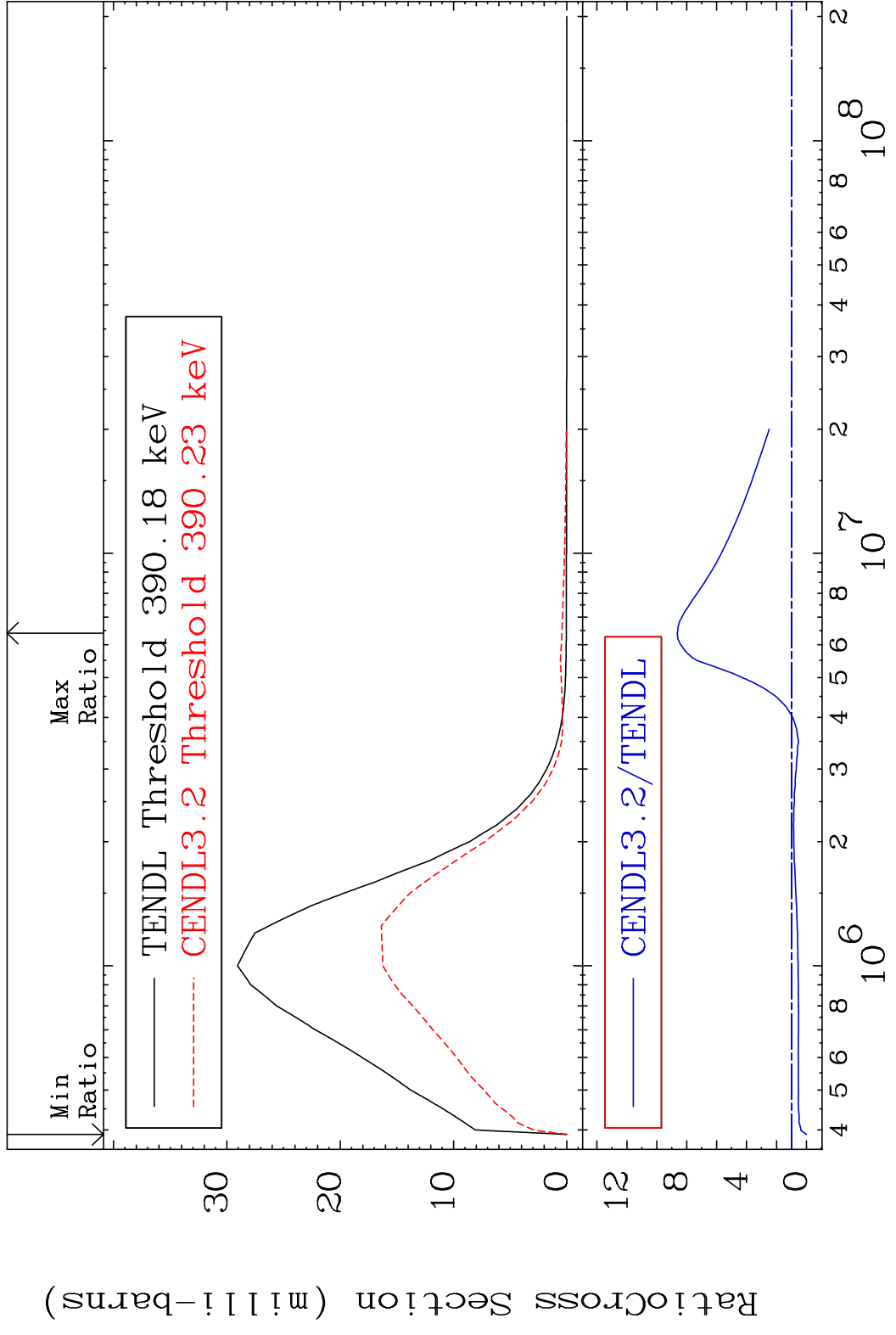
MAT 6155 MT= 56 (n, n') Level 61-Pm-149  
 Cross Section -89.35 To 9999. %



MAT 6155 MT= 57 (n, n') Level 61-Pm-149  
 Cross Section -58.41 To 96.38 %

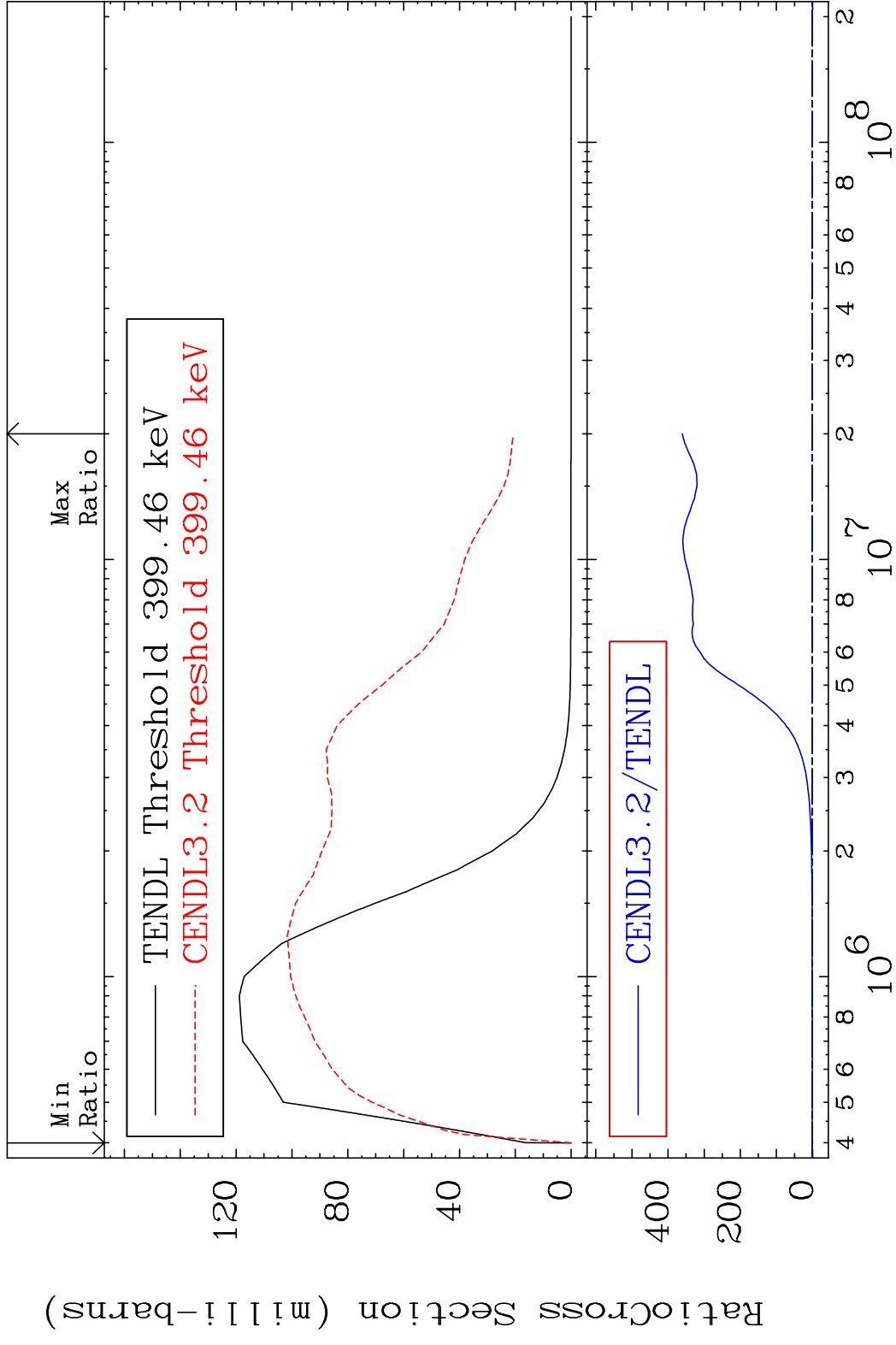


MAT 6155 MT= 58 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 763.7 %

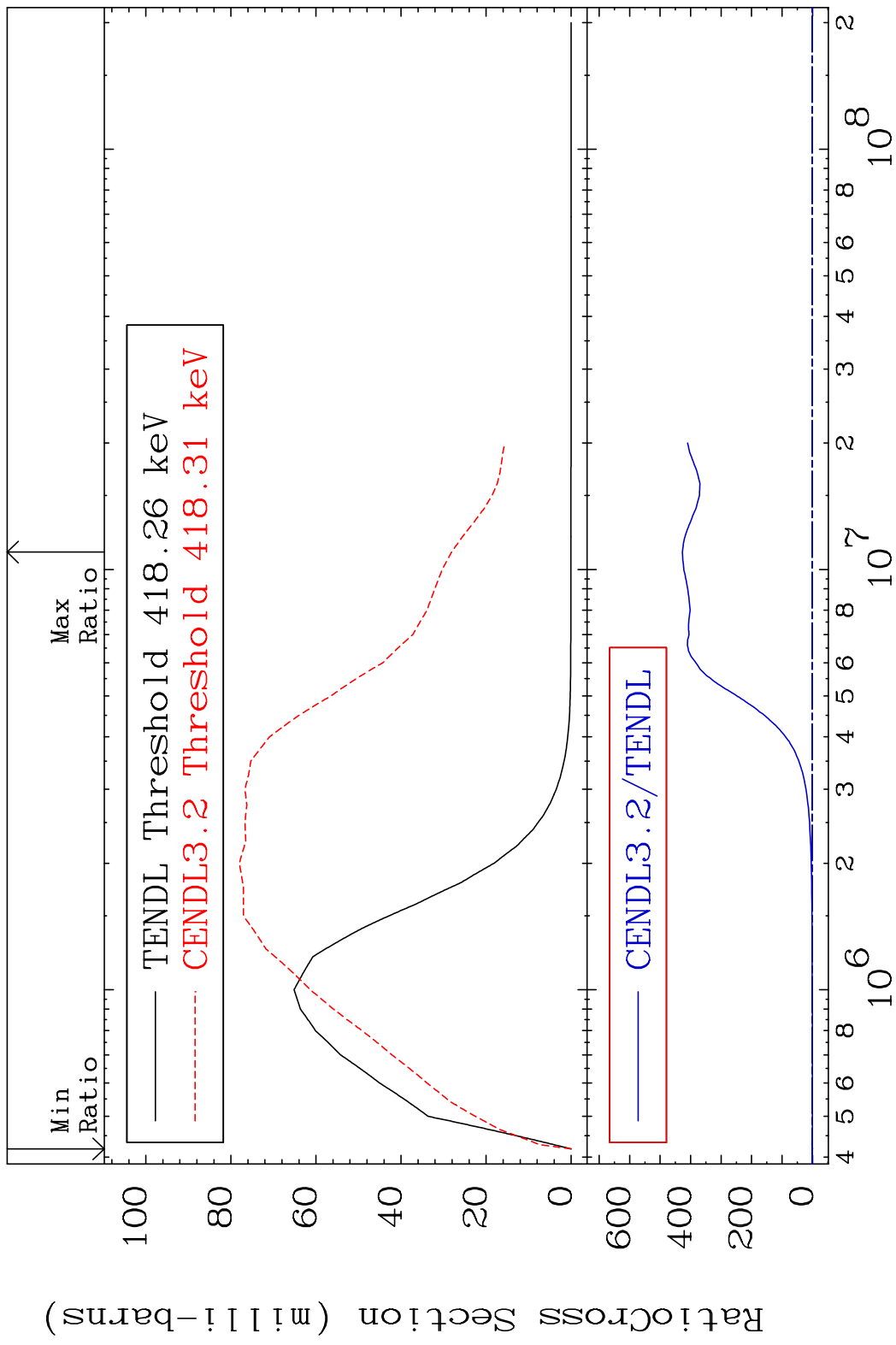




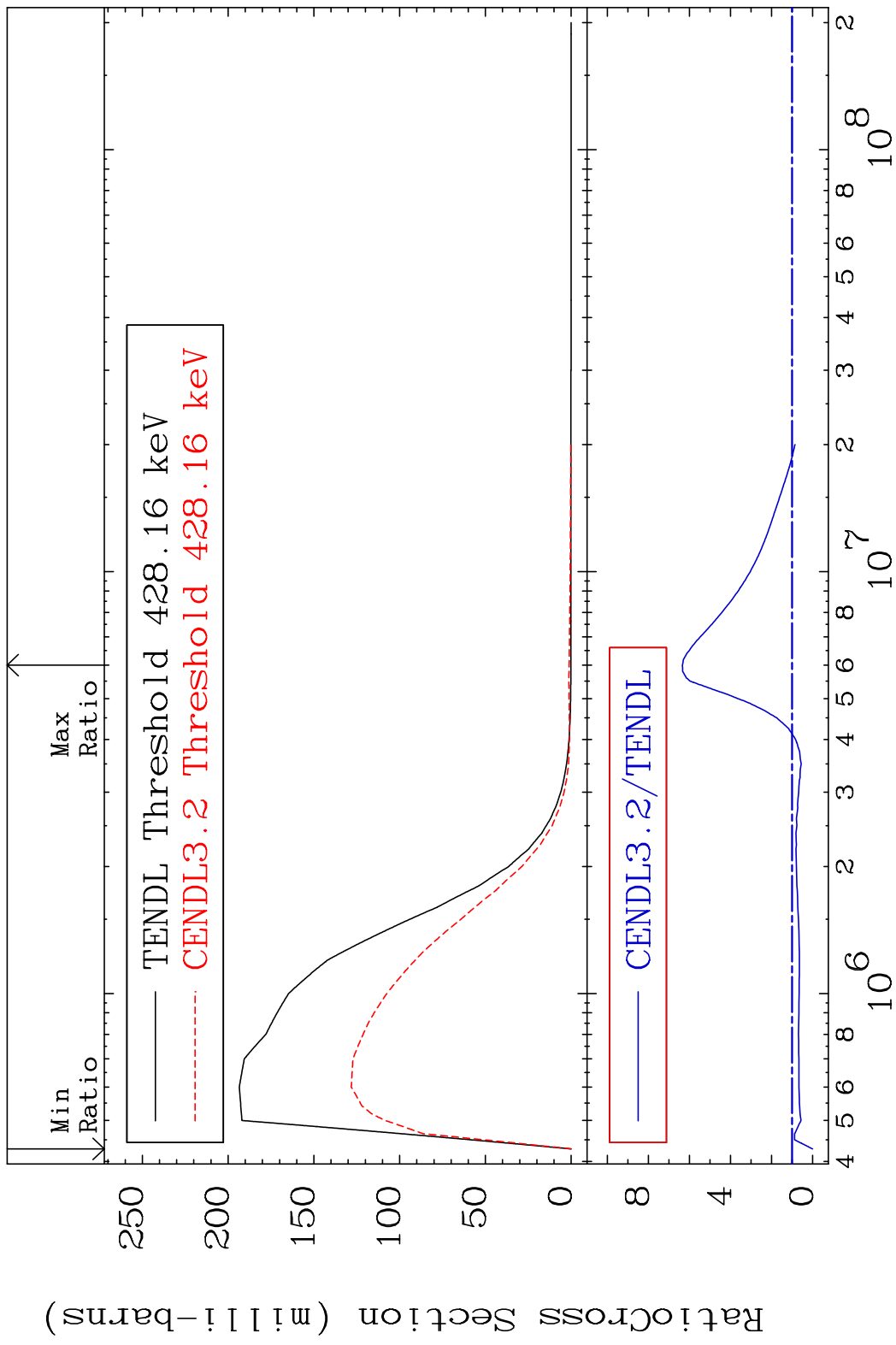
MAT 6155 MT= 59 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 9999. %



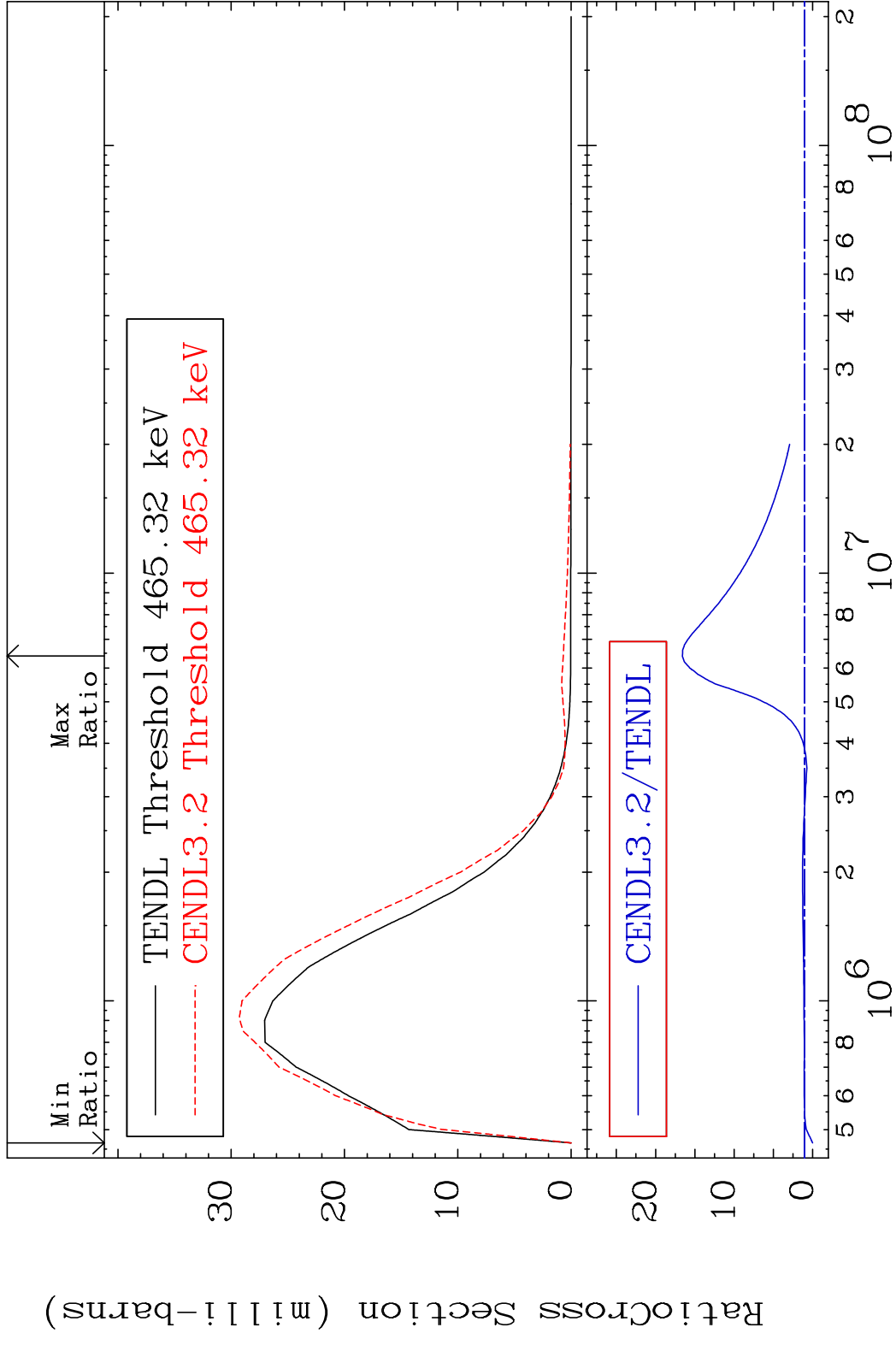
MAT 6155 MT= 60 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 9999. %



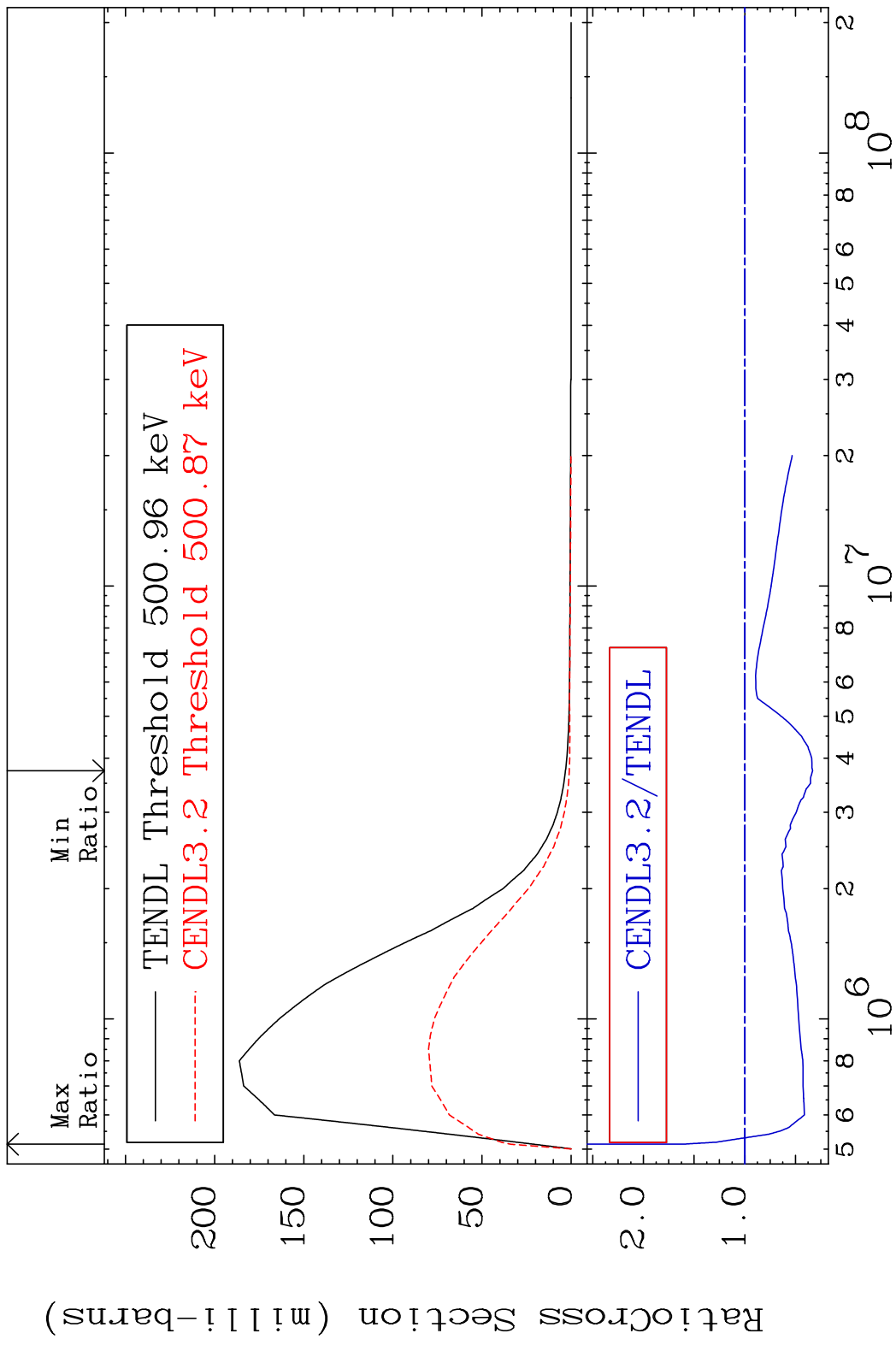
MAT 6155 MT= 61 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 534.5 %



MAT 6155 MT= 62 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 1559. %

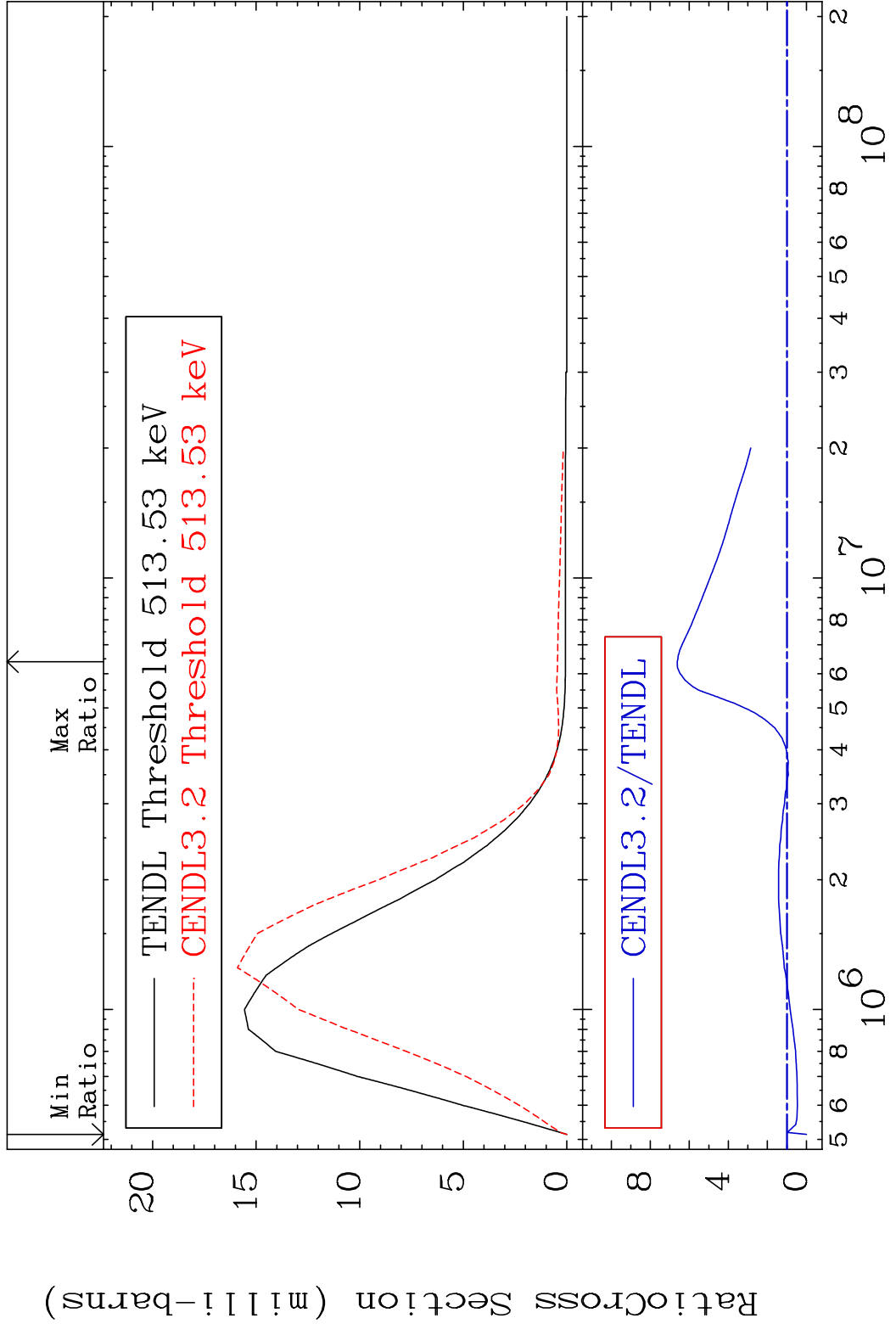


MAT 6155 MT= 63 (n, n') Level 61-Pm-149  
 Cross Section -66.89 To 61.60 %

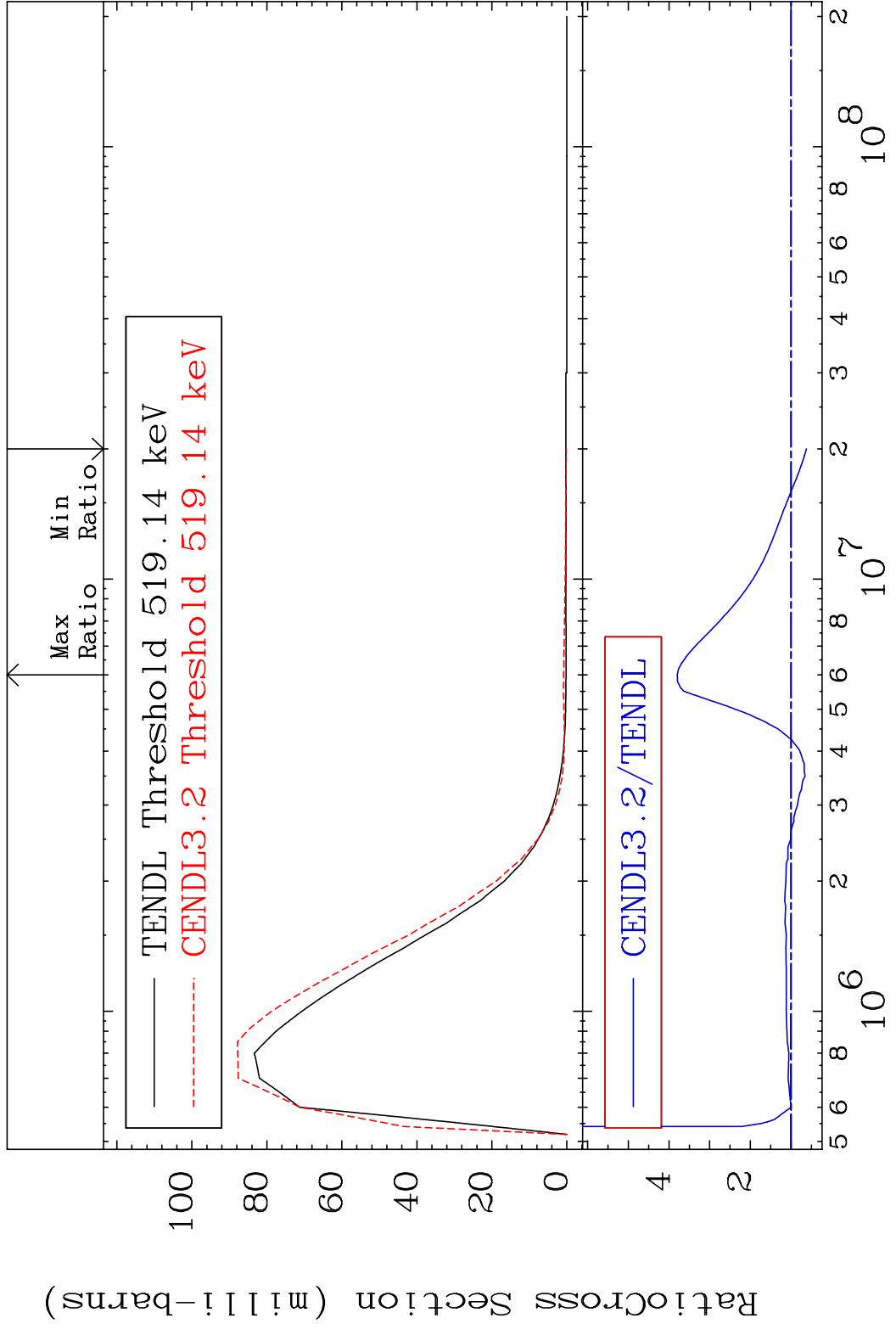


20 Incident Energy (eV) 61-Pm-149

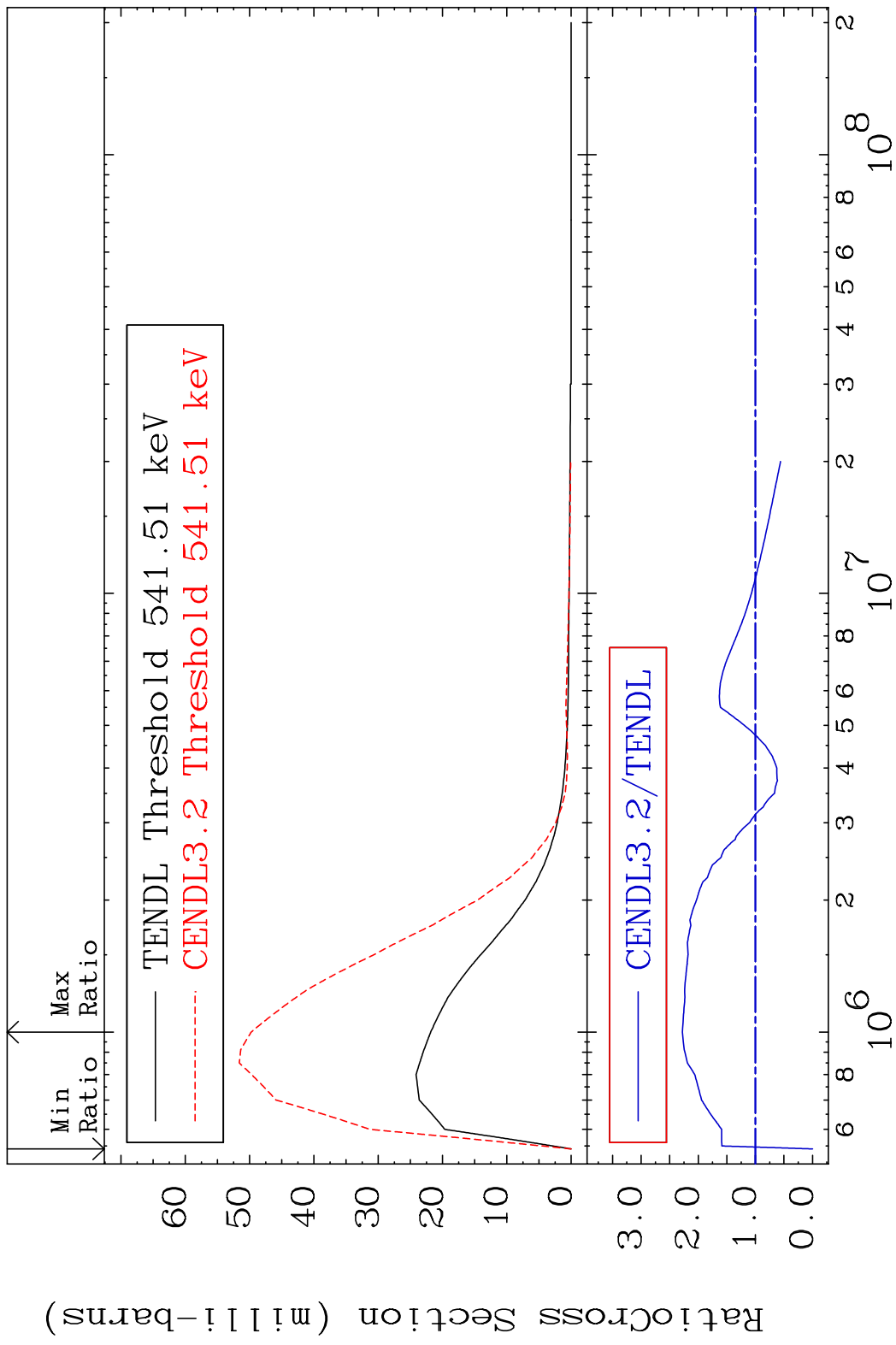
MAT 6155 MT= 64 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 562.2 %



MAT 6155 MT= 65 (n, n') Level 61-Pm-149  
 Cross Section -37.82 To 279.9 %

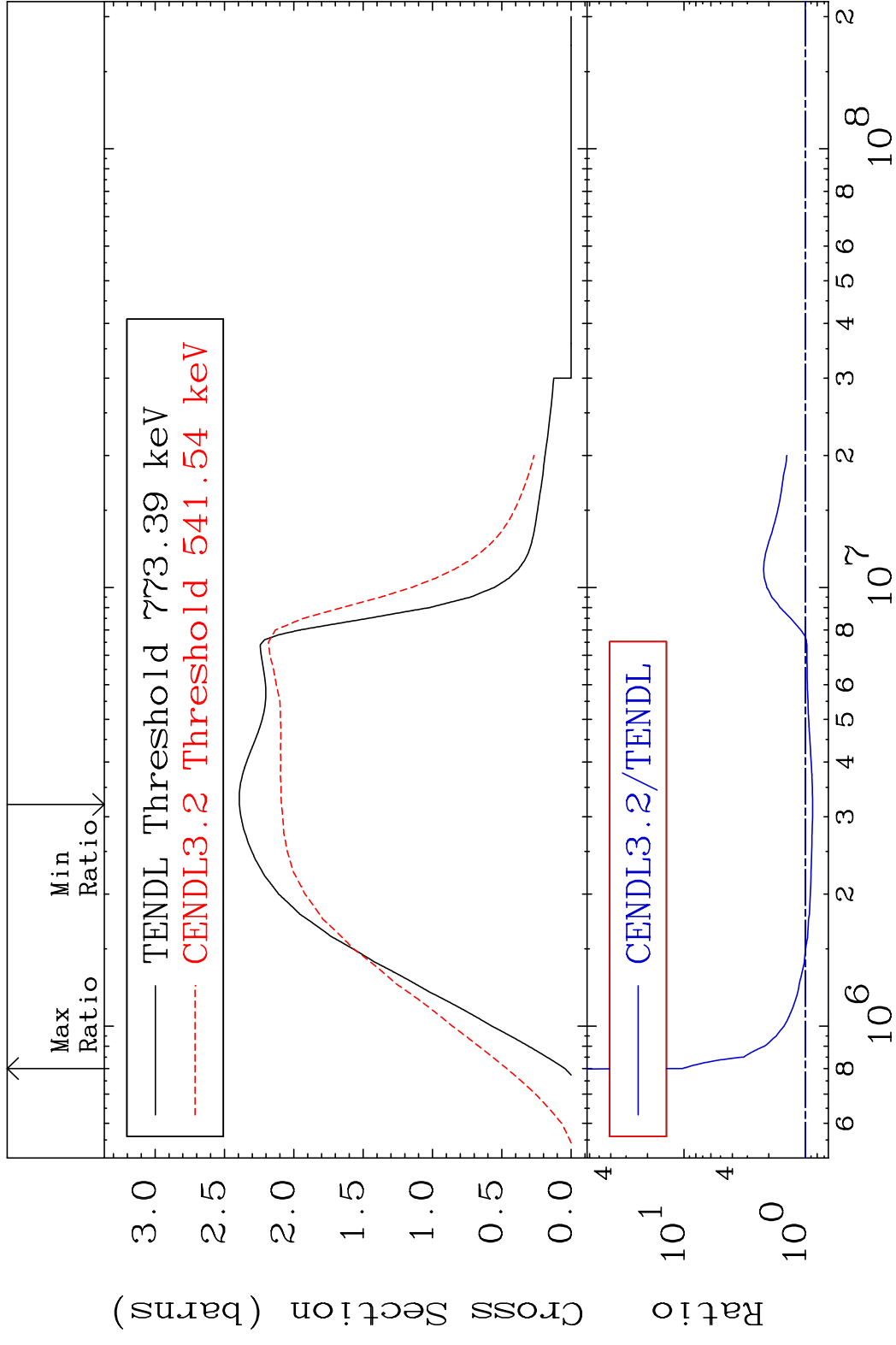


MAT 6155 MT= 66 (n, n') Level 61-Pm-149  
 Cross Section -100.0 To 127.8 %





MAT 6155 (n,n') Continuum 61-Pm-149  
 Cross Section -12.71 To 931.2 %

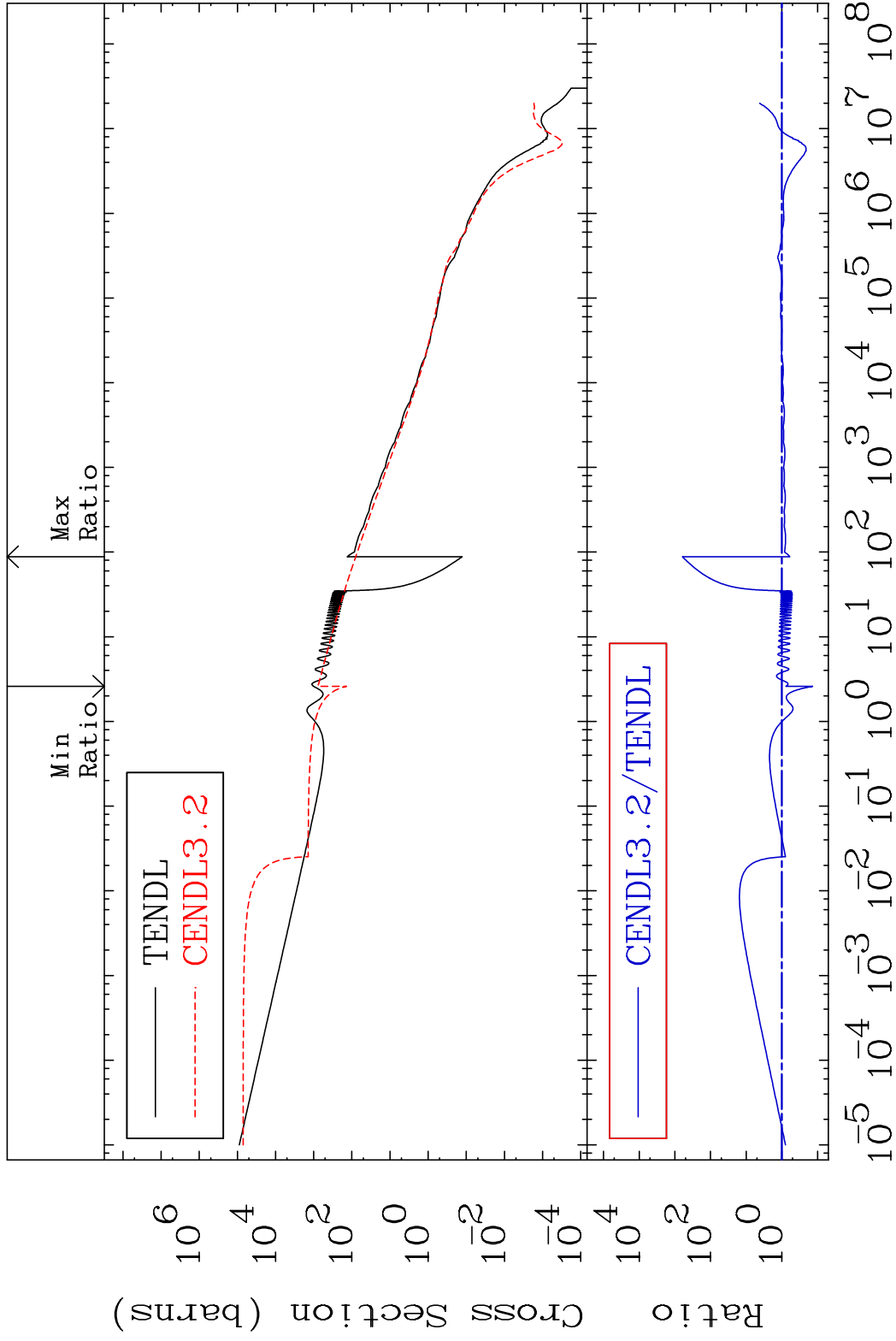


MAT 6155

(n,  $\gamma$ )

61-Pm-149

Cross Section -86.22 To 9999. %



25

Incident Energy (eV)

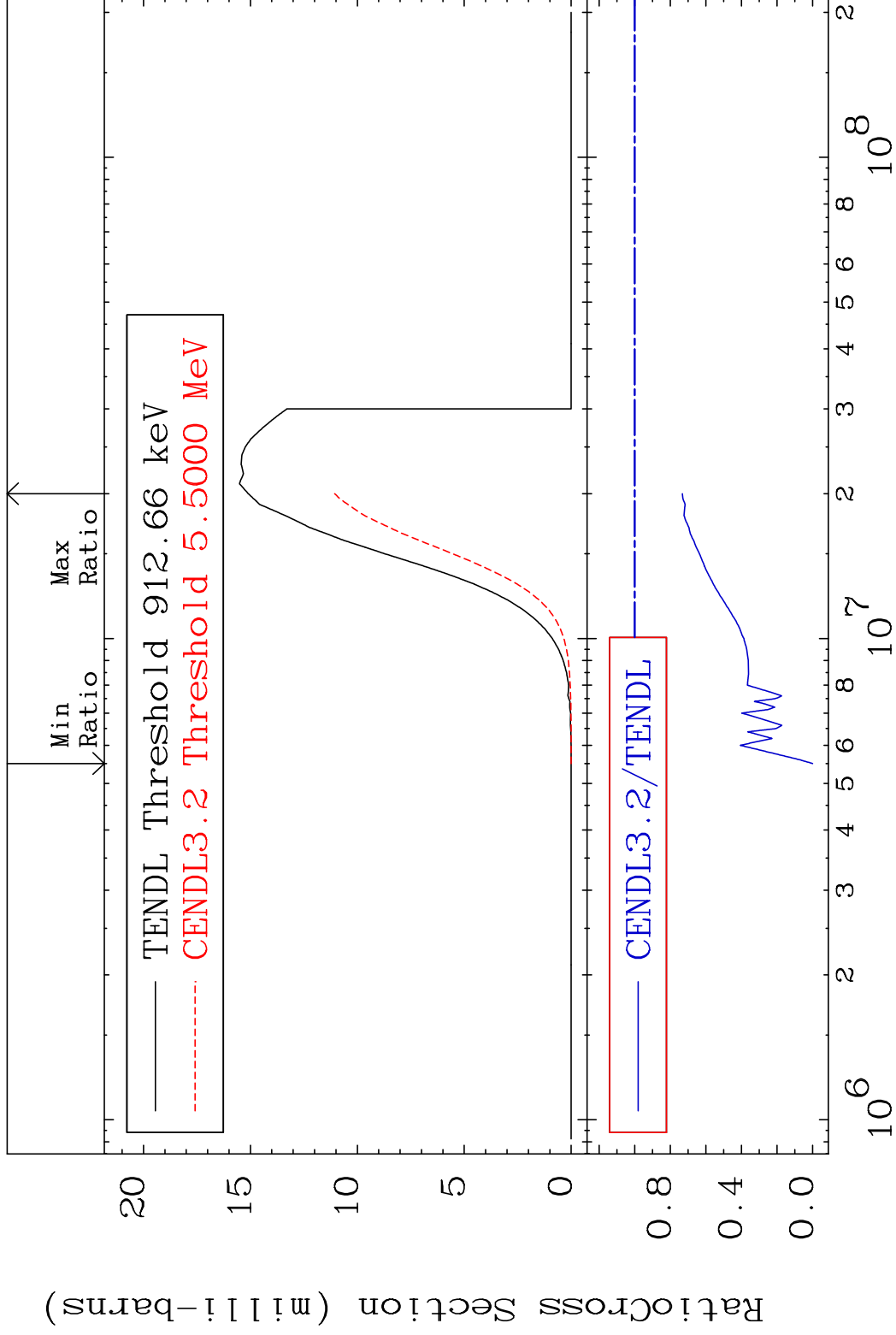
61-Pm-149

MAT 6155

(n, p)

61-Pm-149

Cross Section -100.0 To -26.78%



26

Incident Energy (eV)

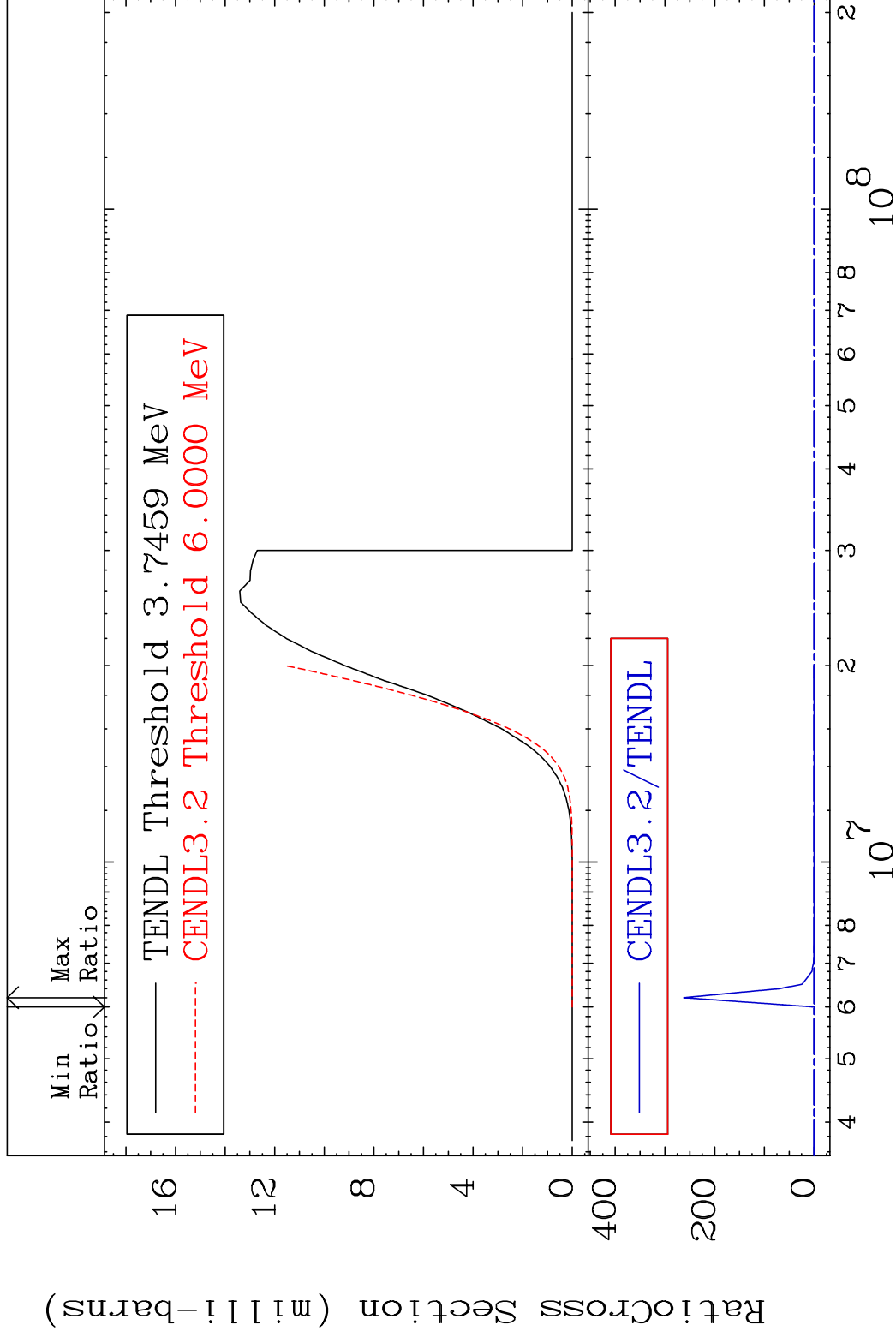
61-Pm-149

MAT 6155

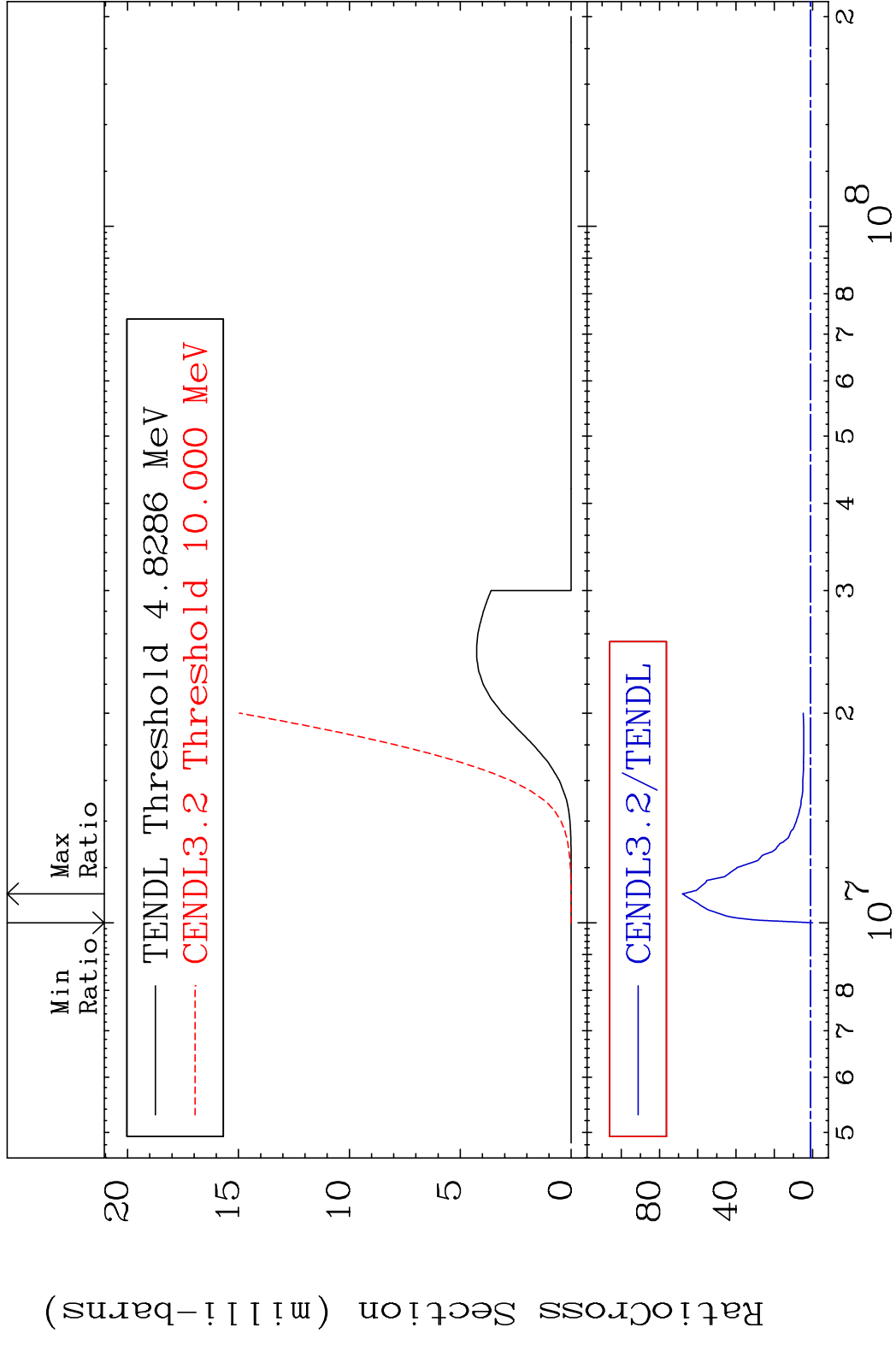
(n,d)

61-Pm-149

Cross Section -100.0 To 9999. %



MAT 6155 (n, t) 61-Pm-149  
 Cross Section -100.0 To 6705. %

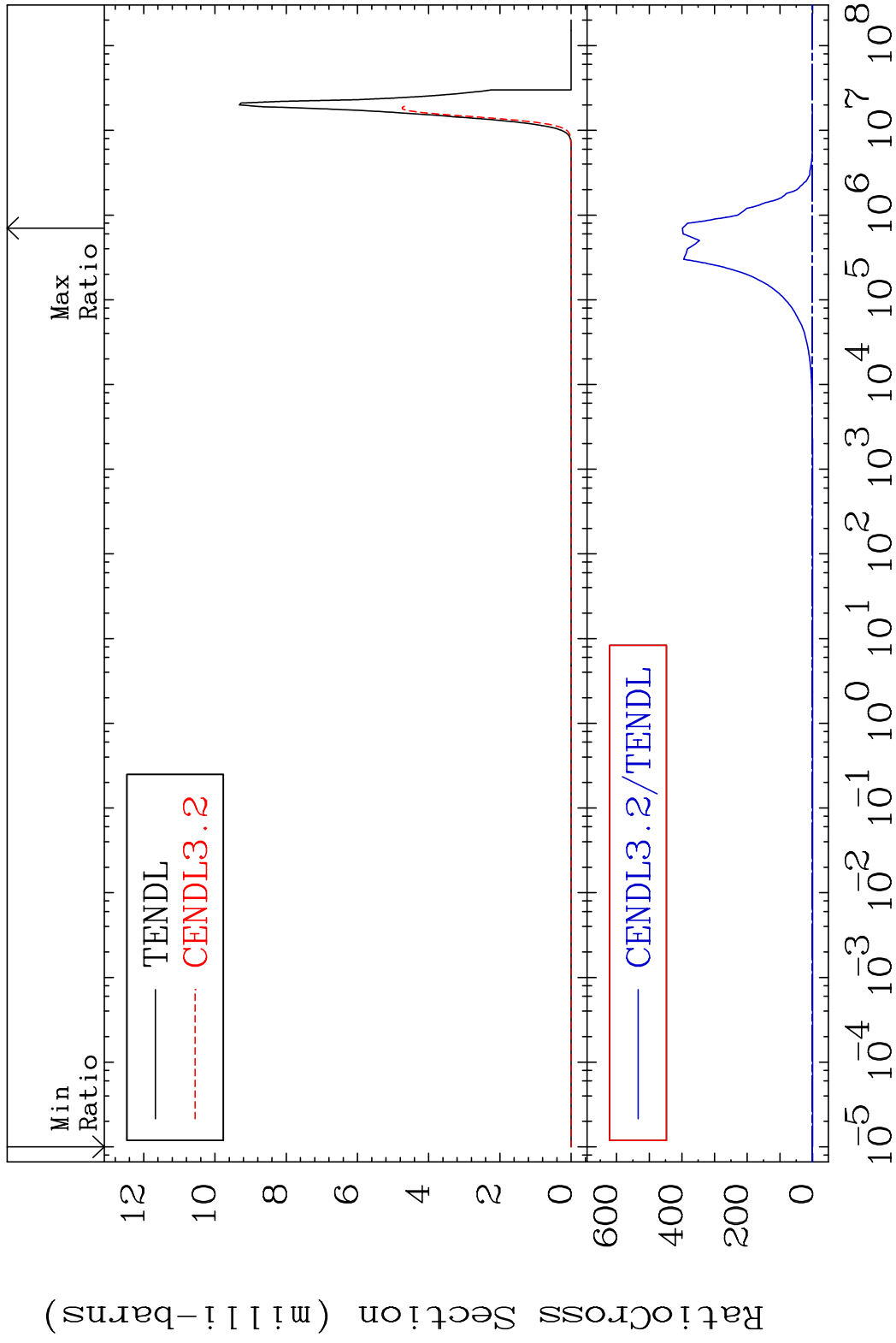


MAT 6155

(n,  $\alpha$ )

61-Pm-149

Cross Section -100.0 To 9999. %



29

Incident Energy (eV)

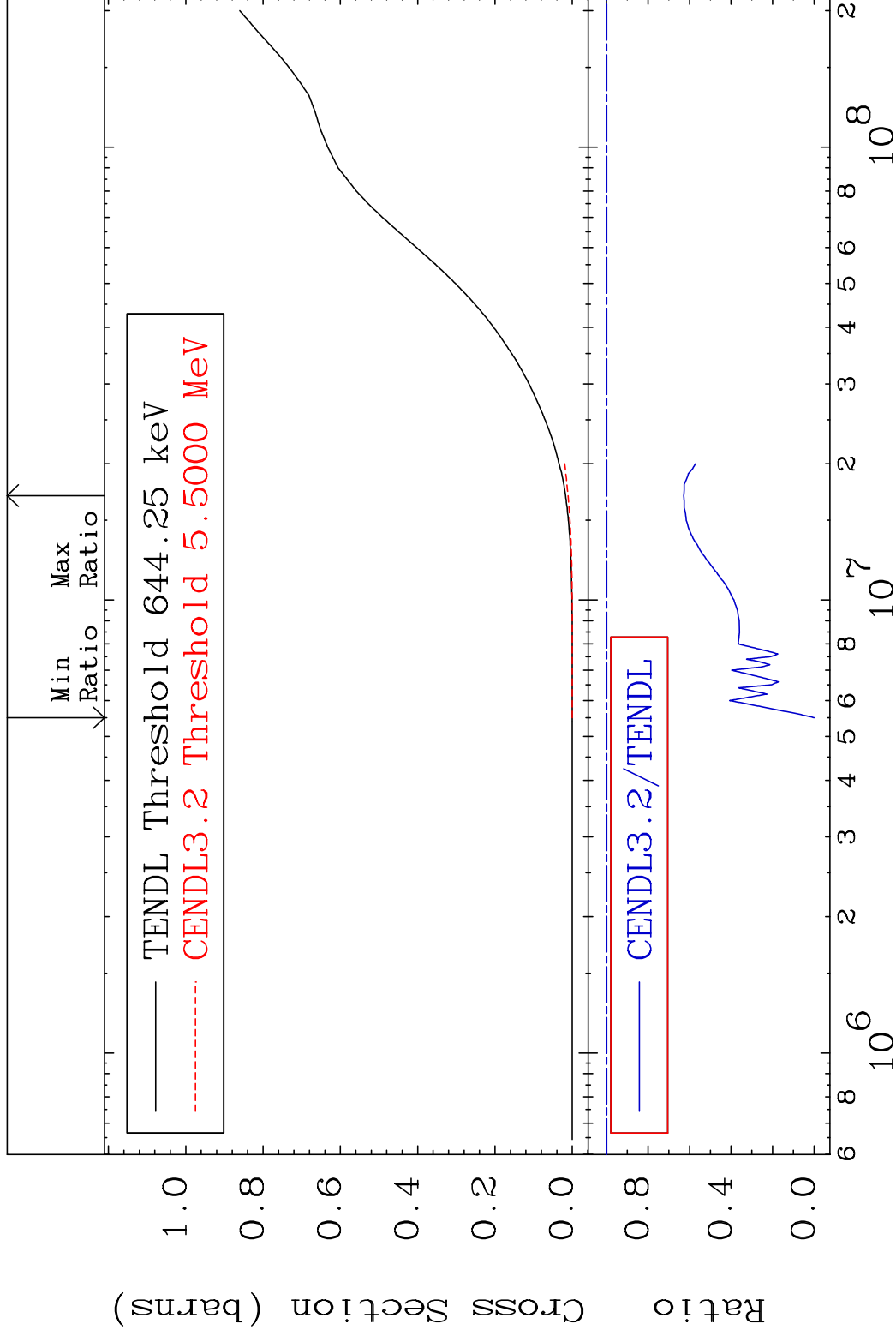
61-Pm-149

MAT 6155

Hydrogen Production

61-Pm-149

Cross Section -100.0 To -37.15%

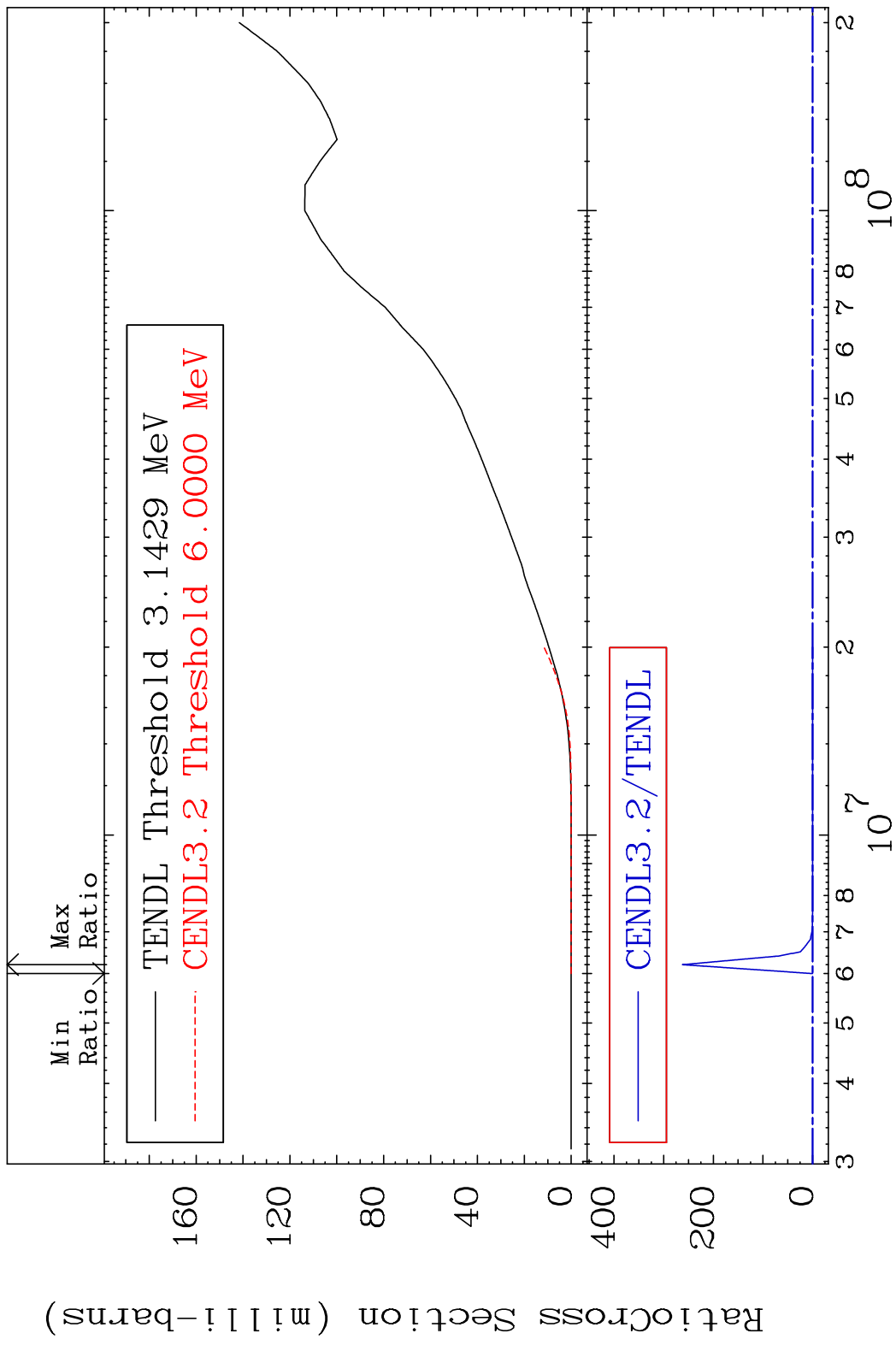


30

Incident Energy (eV)

61-Pm-149

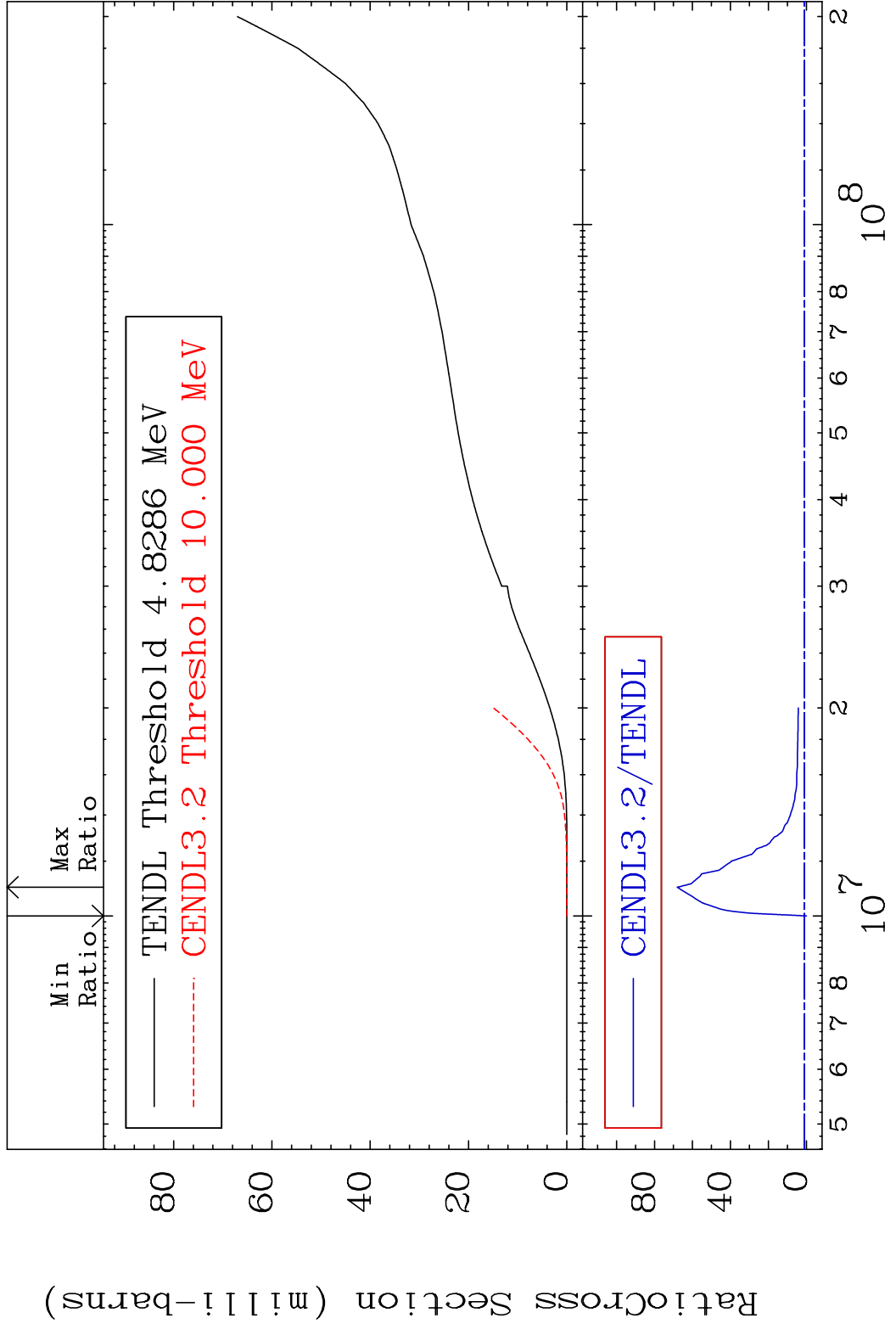
MAT 6155 Deuterium Production 61-Pm-149  
 Cross Section -100.0 To 9999. %



31 Incident Energy (eV) 61-Pm-149



MAT 6155 Tritium Production 61-Pm-149  
 Cross Section -100.0 To 6705. %

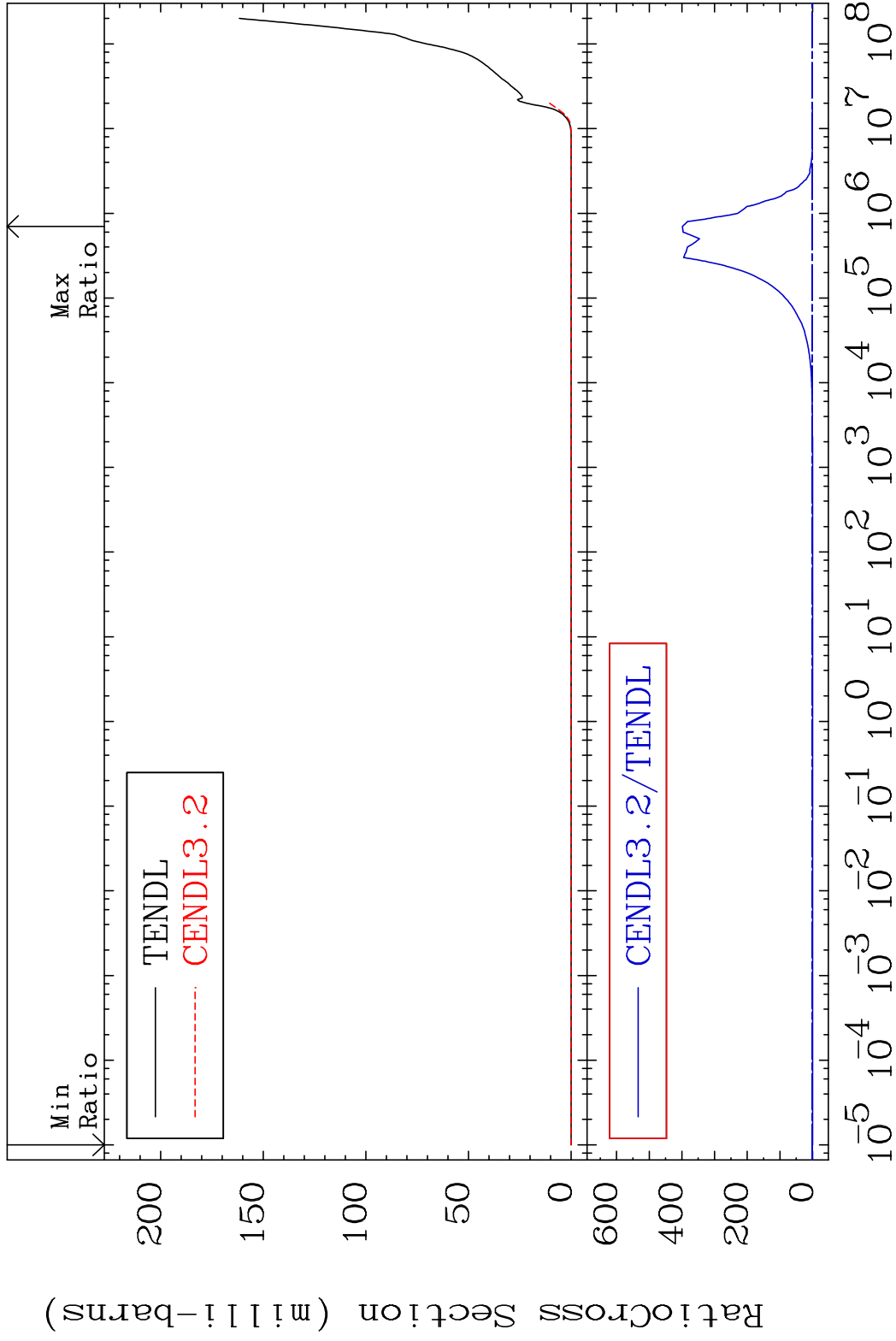


MAT 6155

He-4 Production

61-Pm-149

Cross Section -100.0 To 9999. %

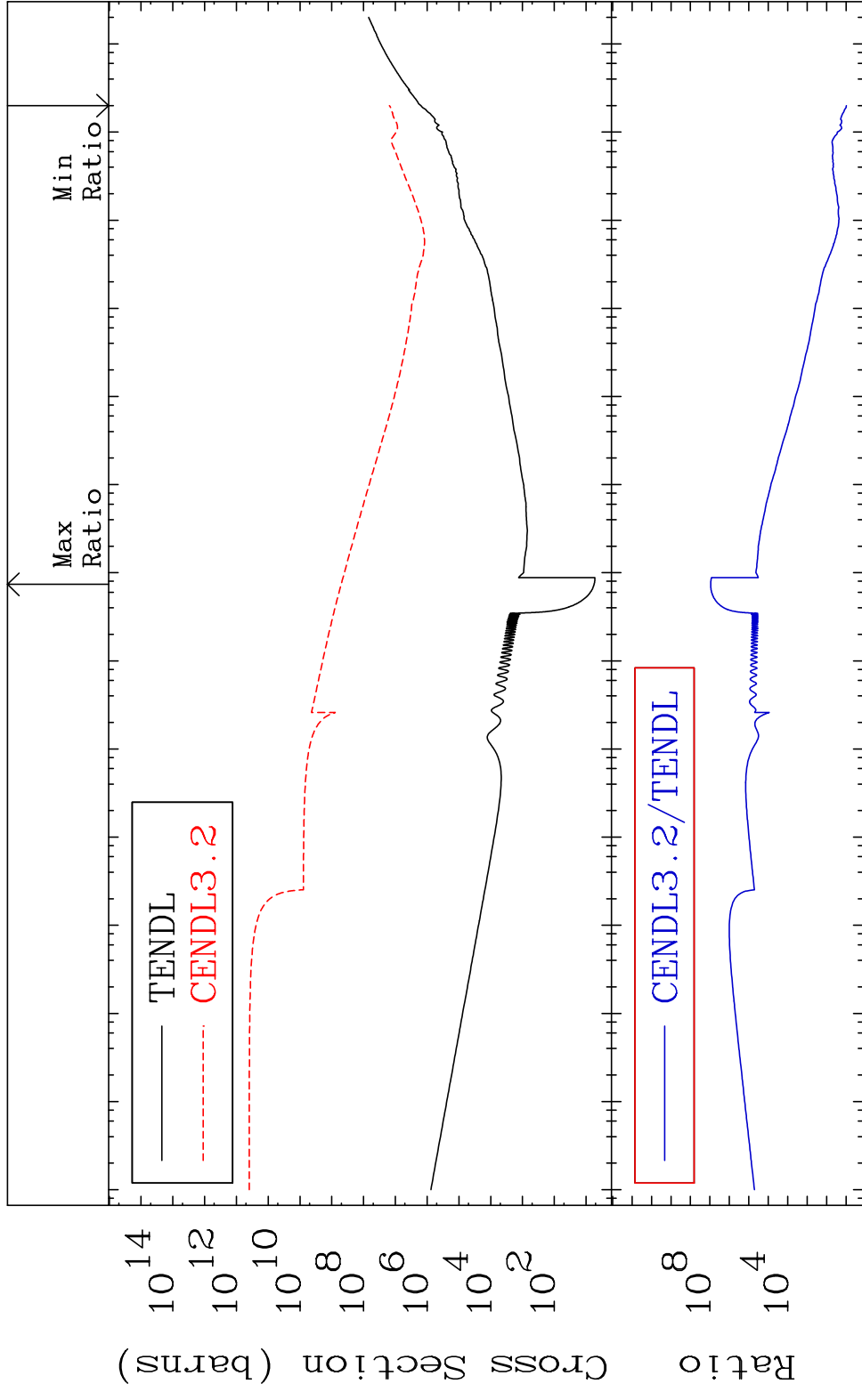


33

Incident Energy (eV)

61-Pm-149

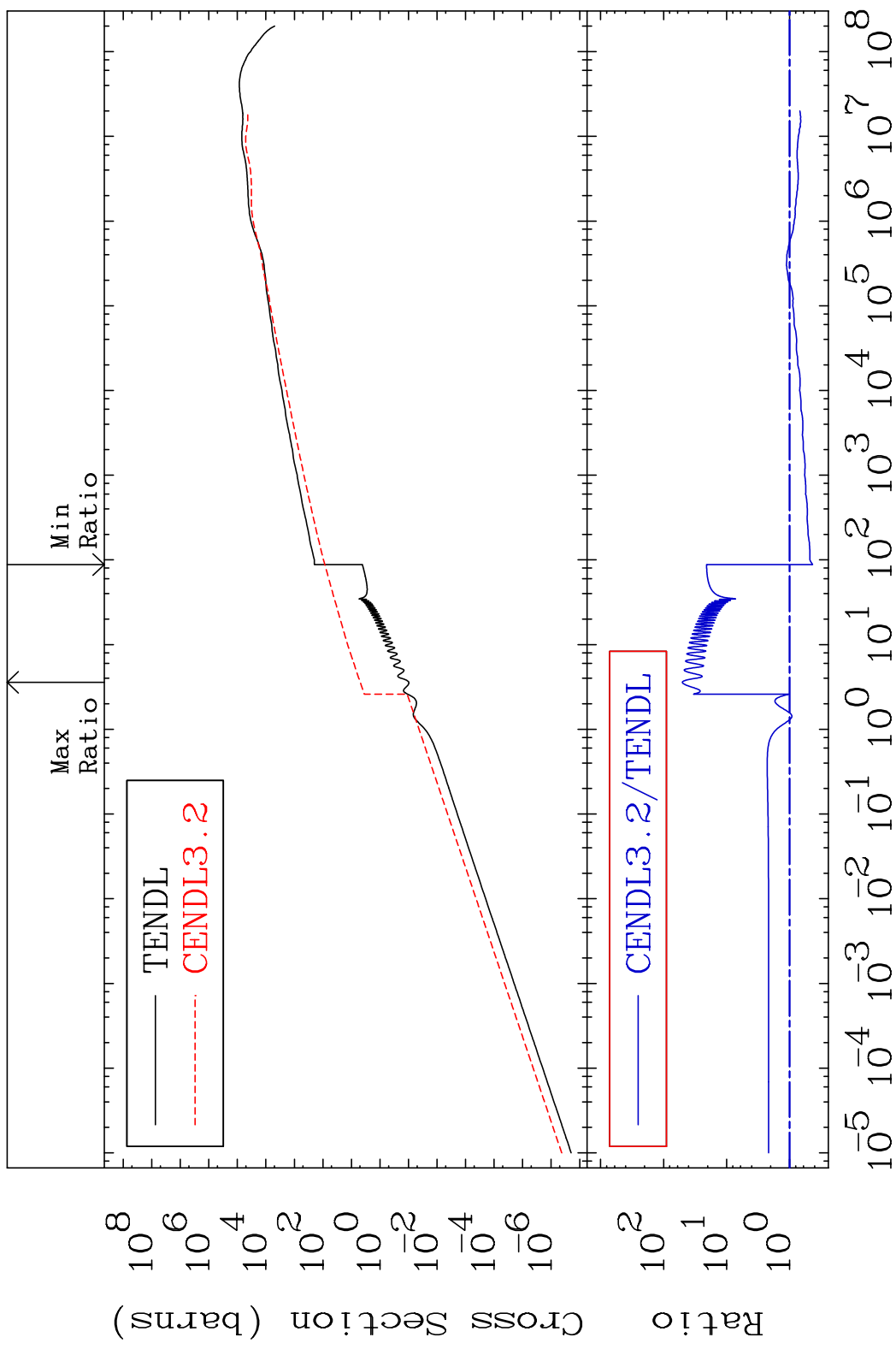
MAT 6155 Kerma total (eV-barns) 61-Pm-149  
 Cross Section 876.2 To 9999. %



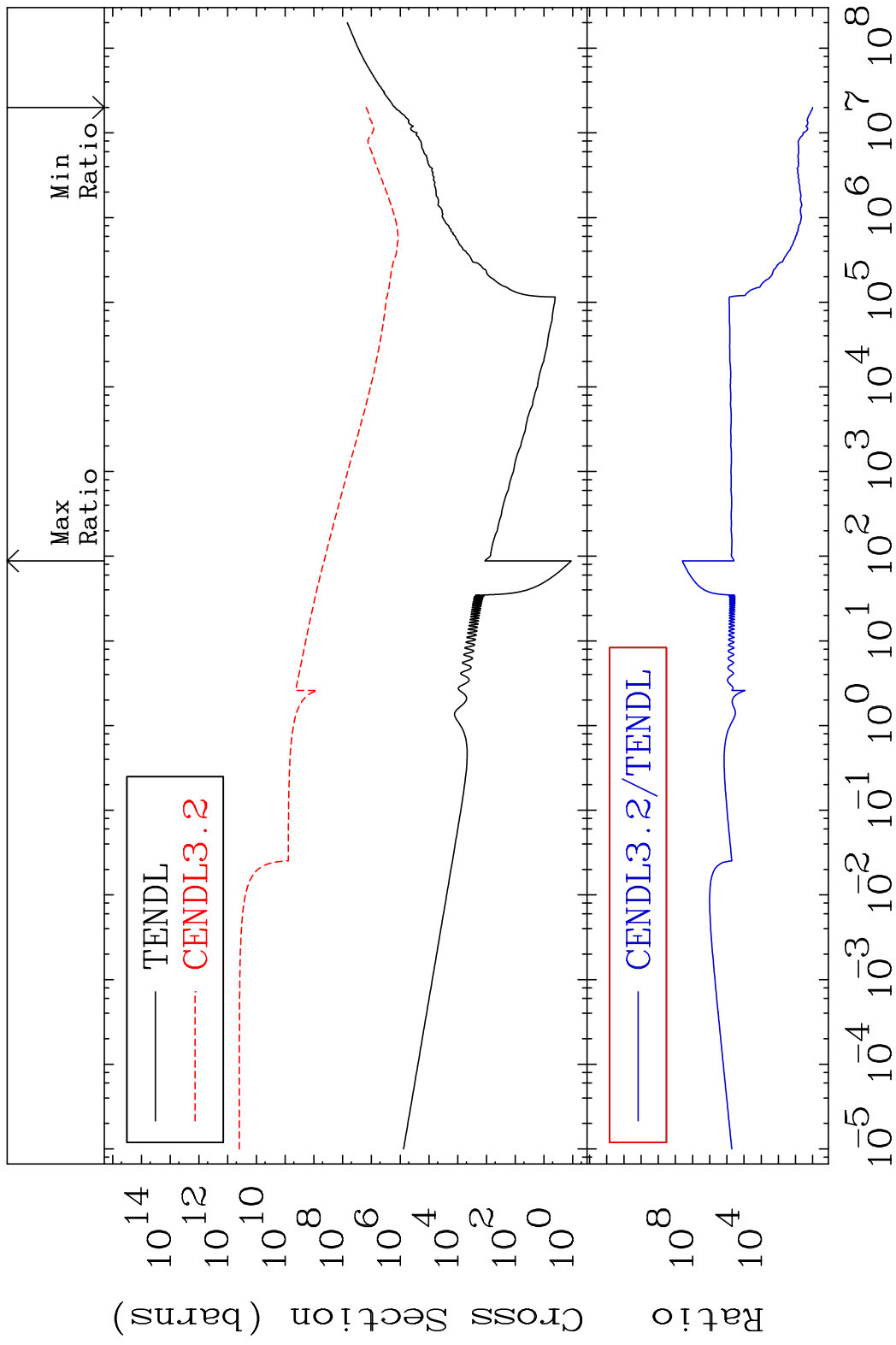
MAT 6155

Kerma elastic Cross Section -56.81 To 4936. %

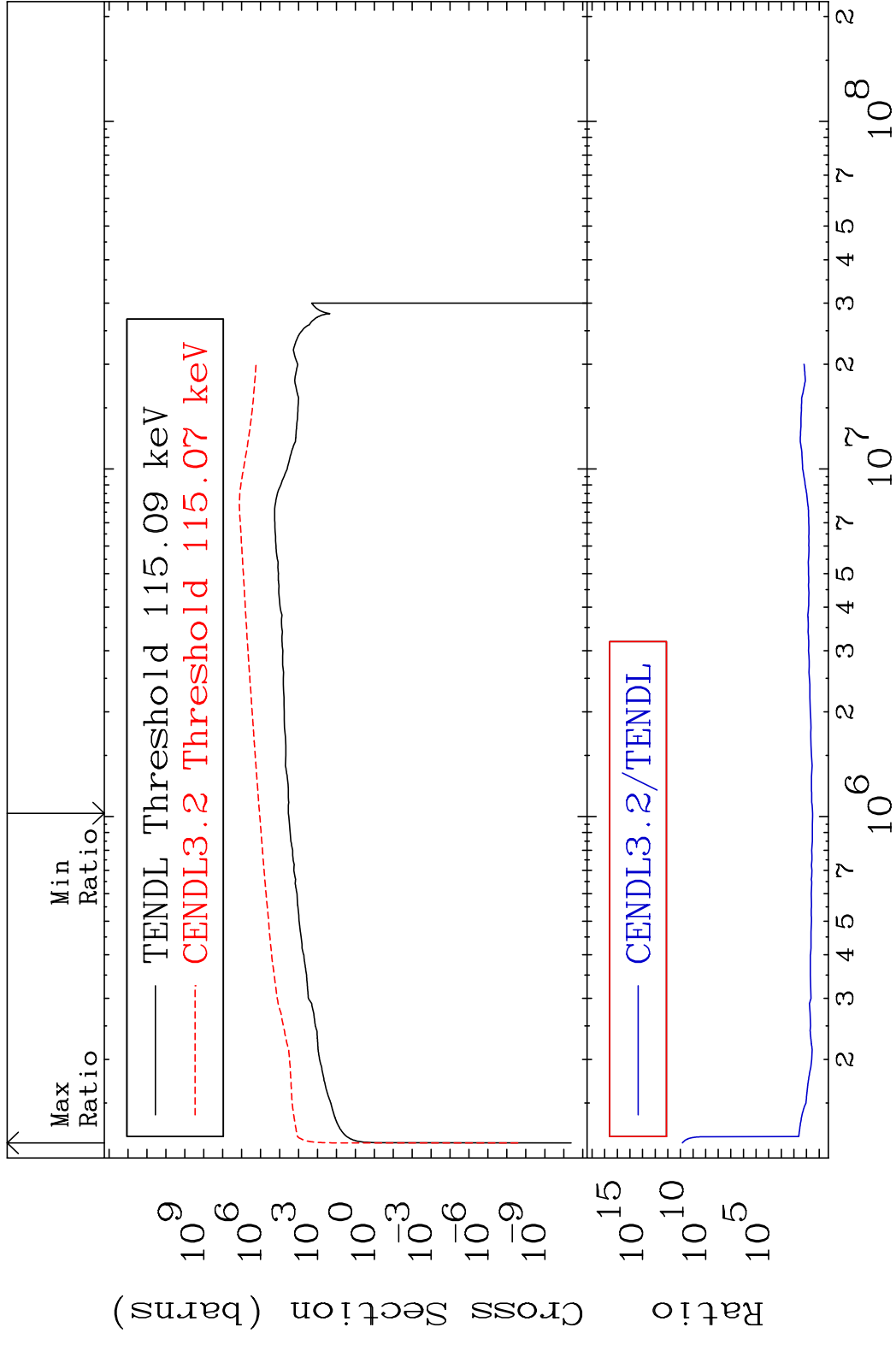
61-Pm-149



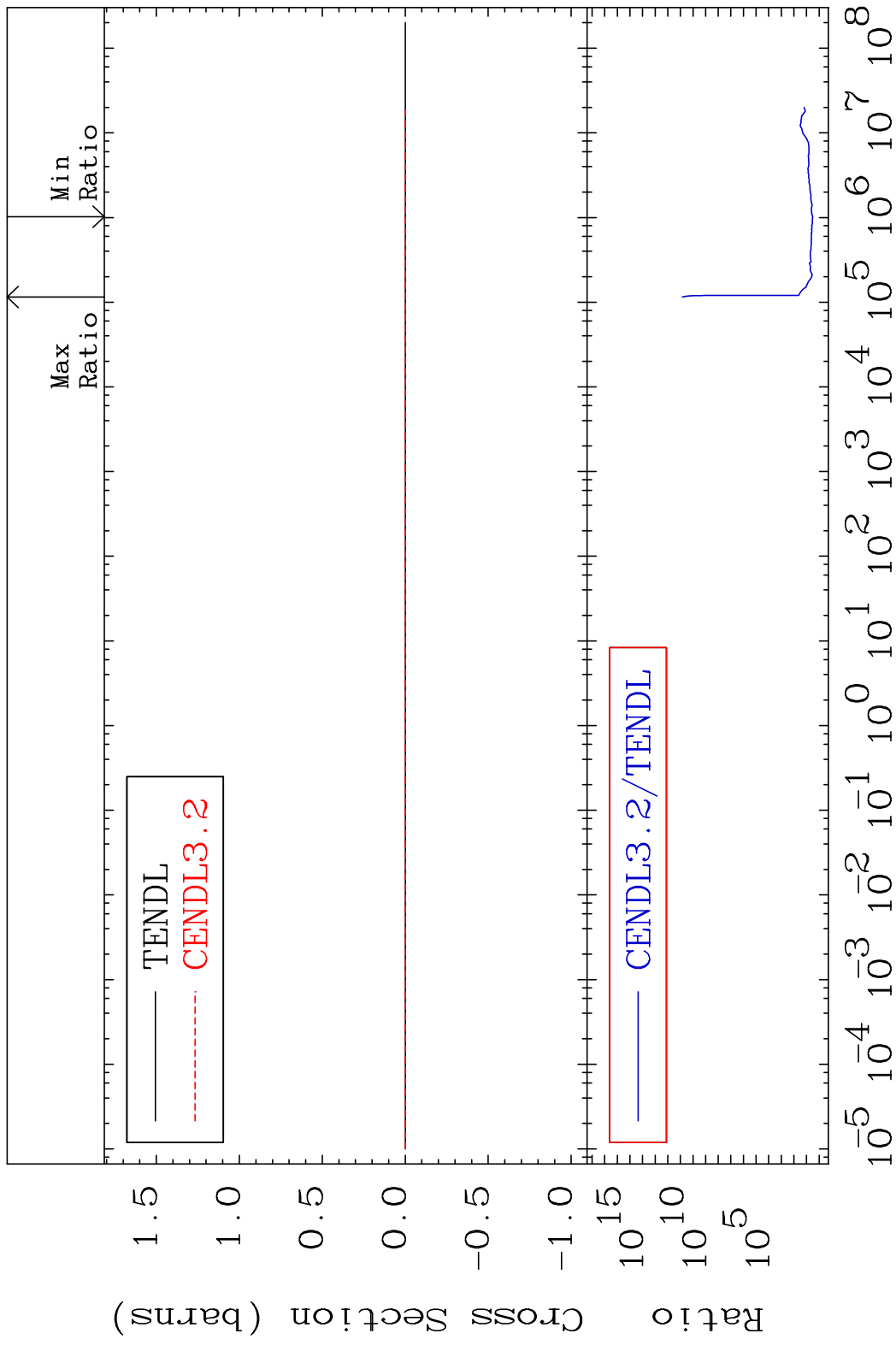
MAT 6155 Kerma non-elastic (all but mt2) 61-Pm-149  
 Cross Section 915.8 To 9999. %



MAT 6155 Kerma inelastic (mt51-91) 61-Pm-149  
 Cross Section 3243. To 9999. %

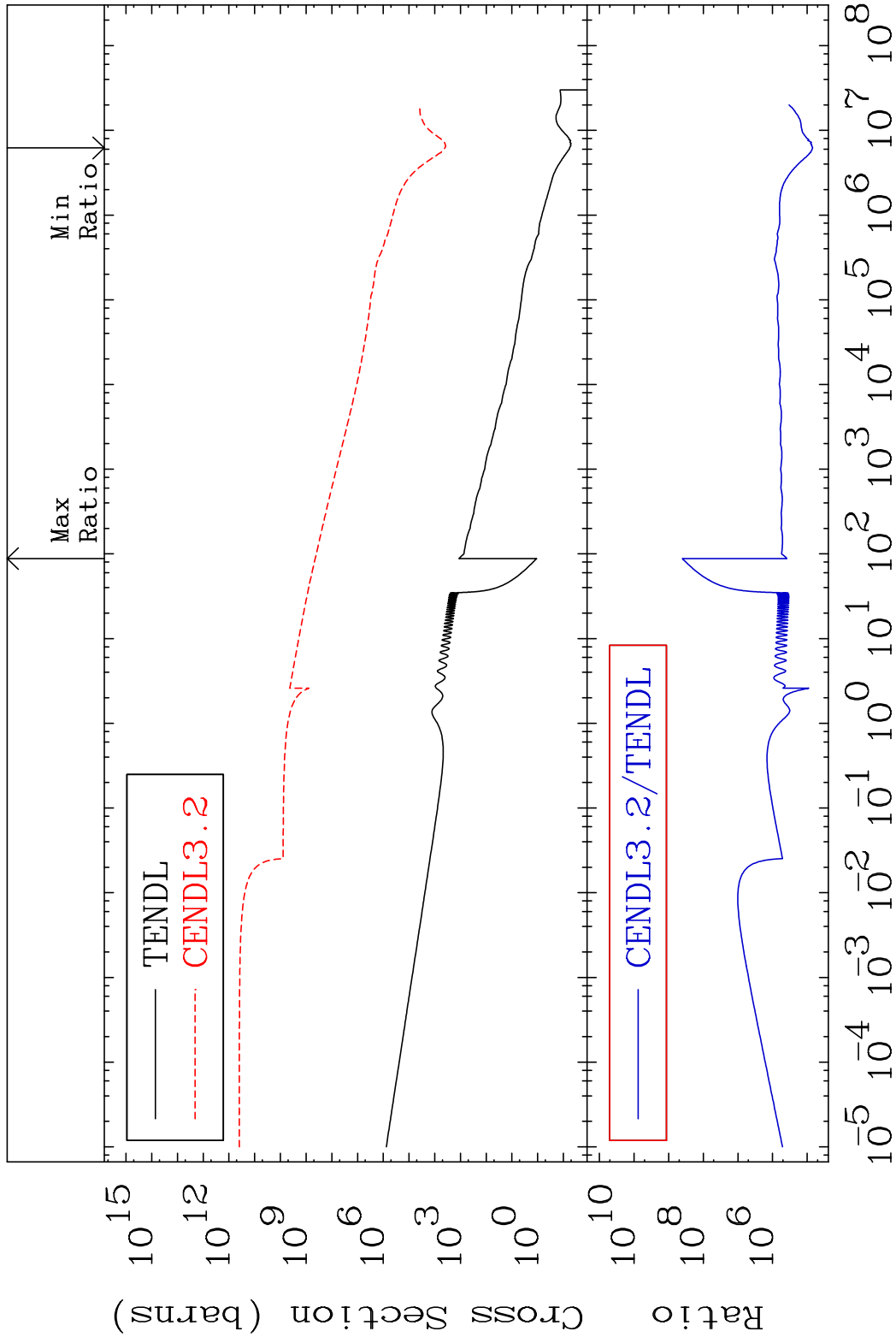


MAT 6155 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-149  
 Cross Section 3243. To 9999. %



MAT 6155

Kerma capture (mt102) 61-Pm-149  
Cross Section 9999. To 9999. %



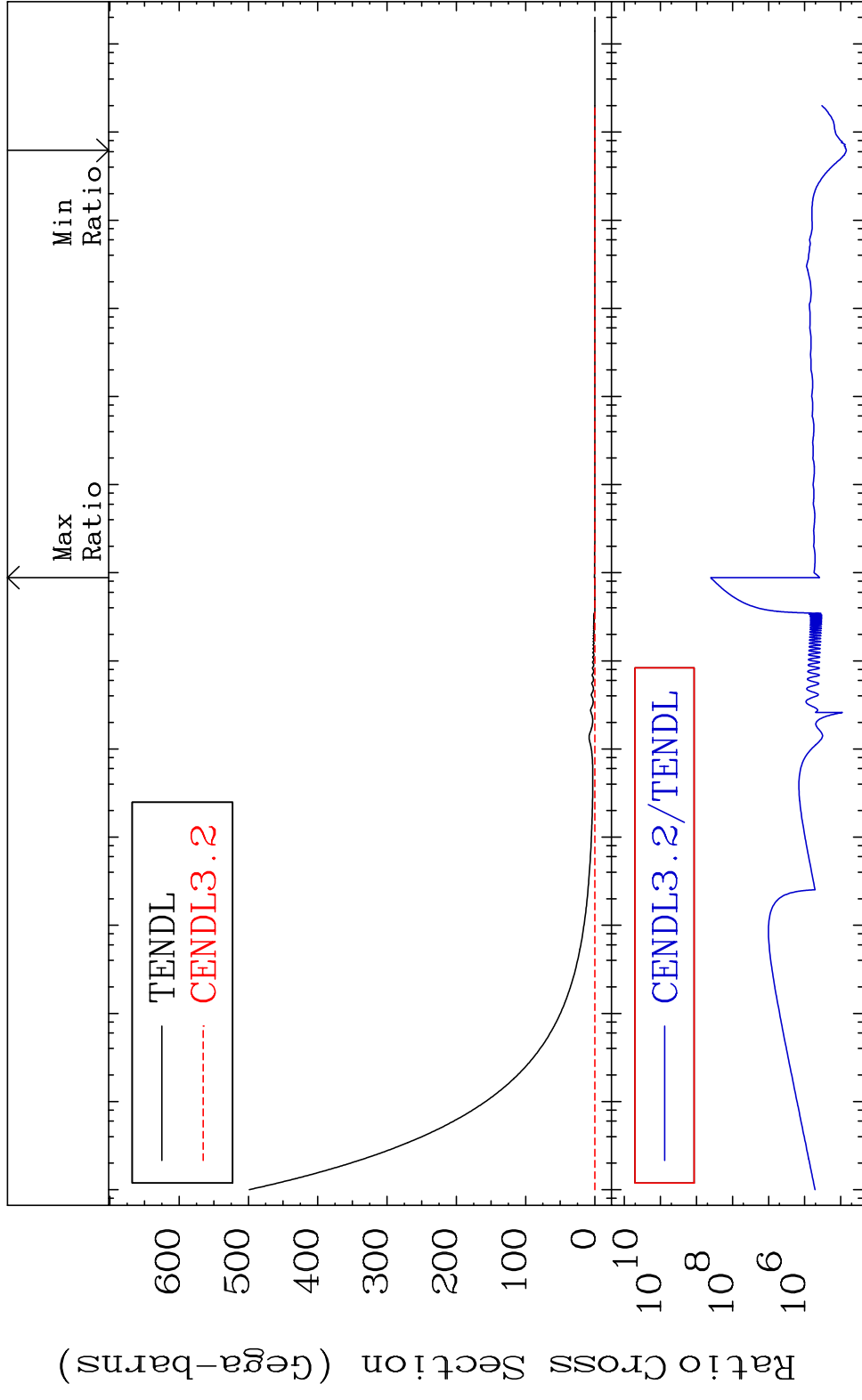
39

Incident Energy (eV)

61-Pm-149

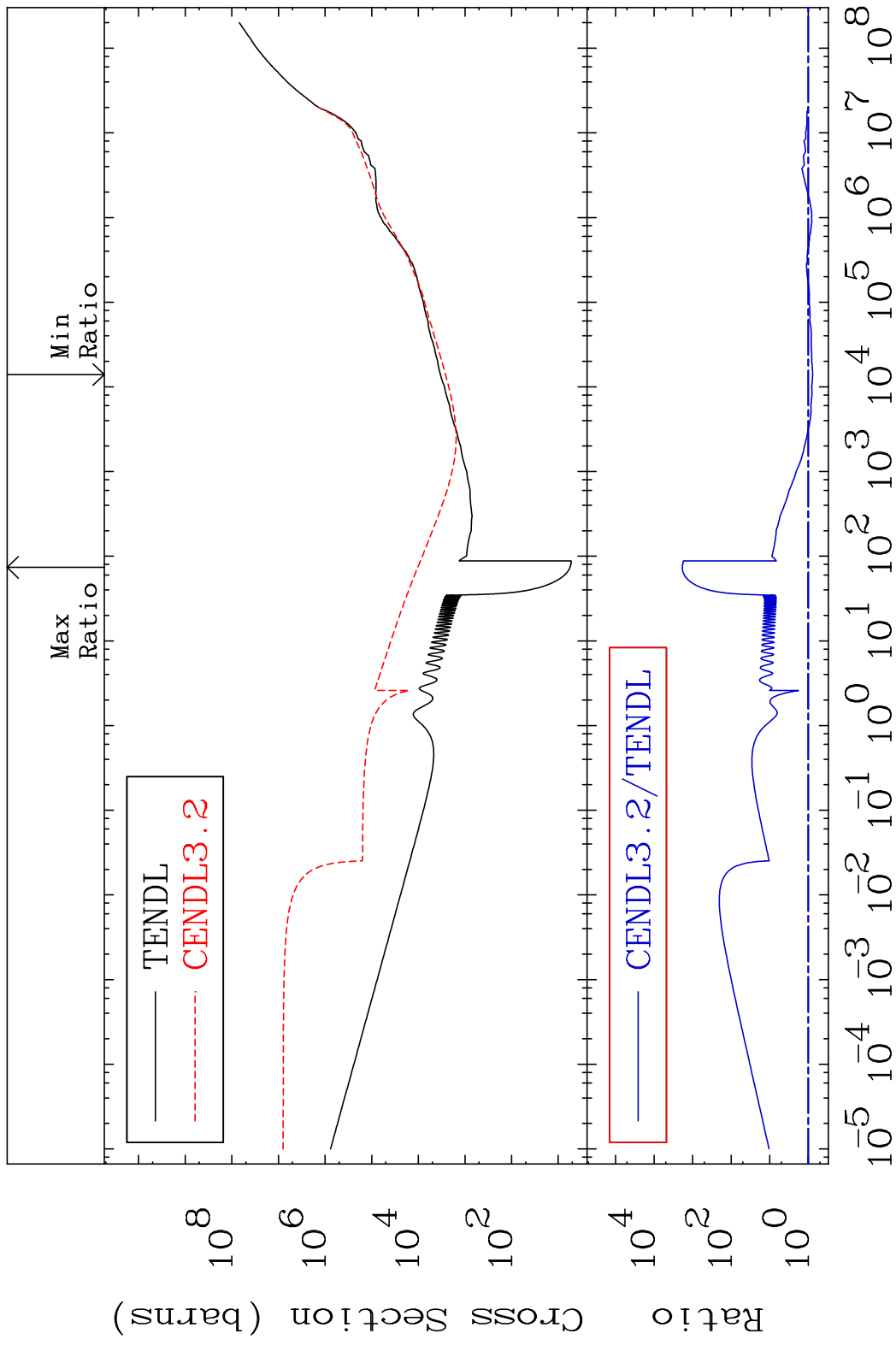


MAT 6155 Total photon (eV-barns) 61-Pm-149  
 Cross Section 9999. To 9999. %

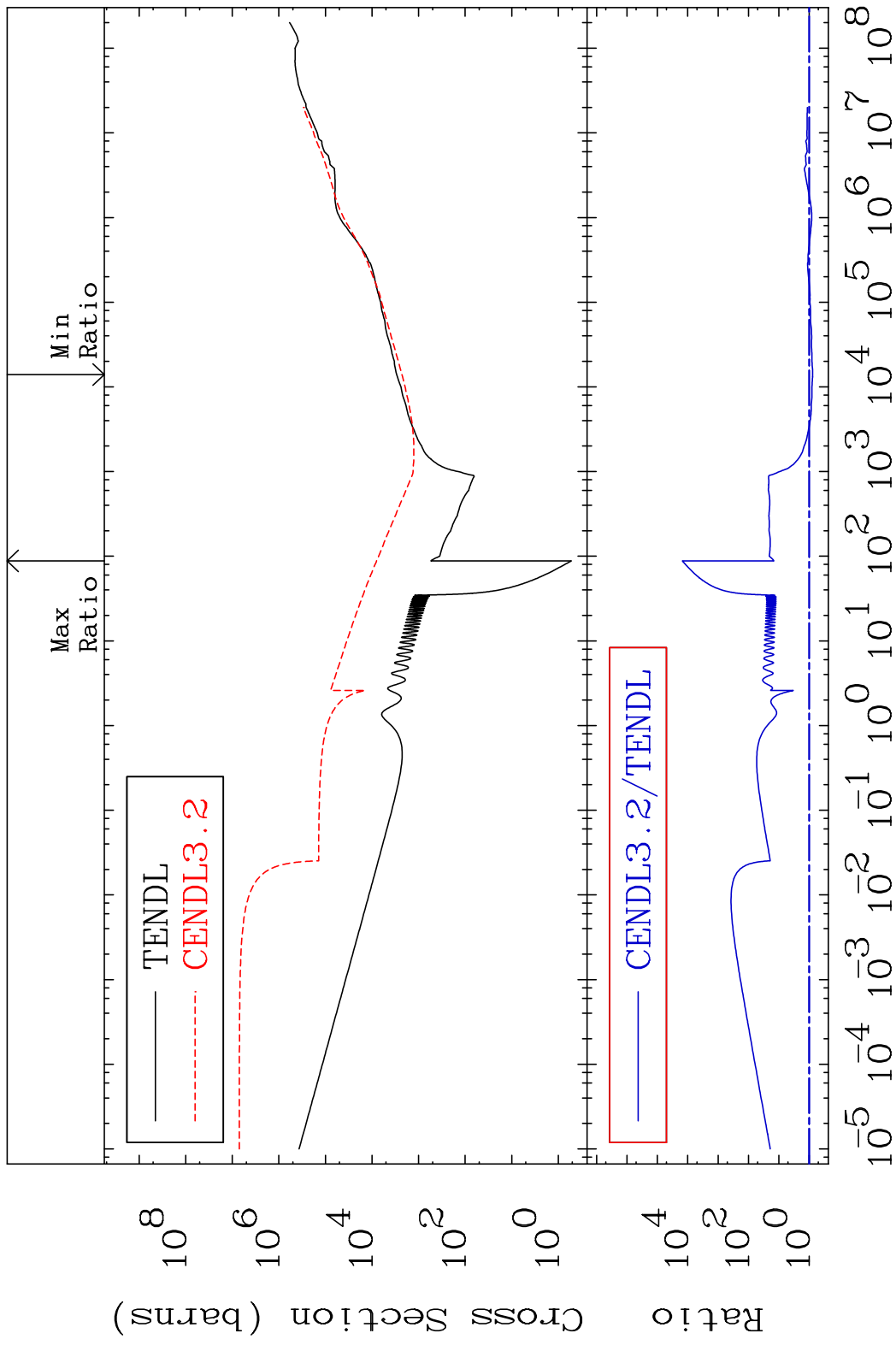


40 Incident Energy (eV) 61-Pm-149

MAT 6155 Total kinematic kerma (high limit) 61-Pm-149  
 Cross Section -22.56 To 9999. %



MAT 6155 Dpa total (eV-barns) 61-Pm-149  
 Cross Section -22.34 To 9999. %



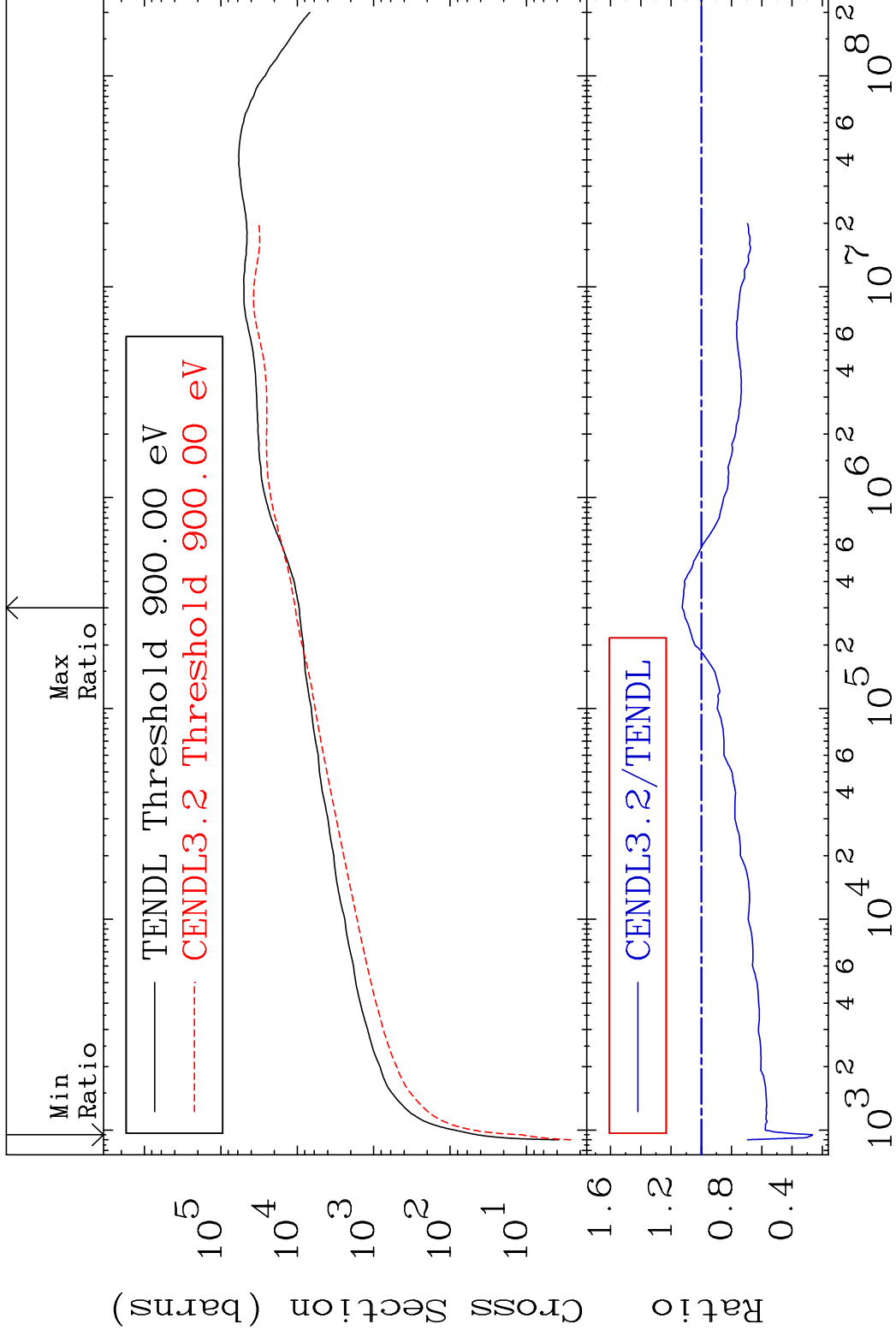
42 Incident Energy (eV) 61-Pm-149

MAT 6155

Dpa elastic (mt2)

61-Pm-149

Cross Section -73.49 To 12.67 %

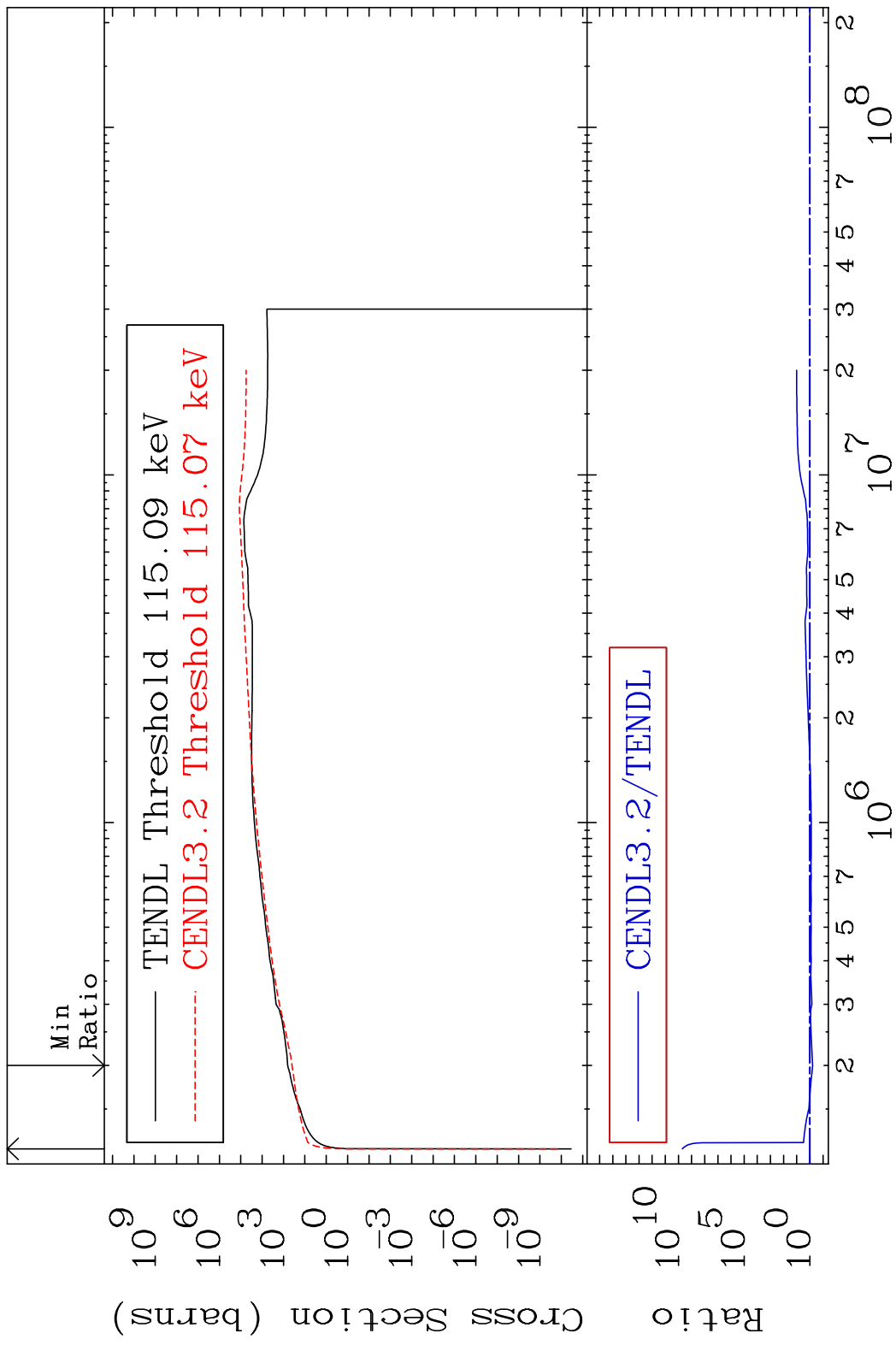


43

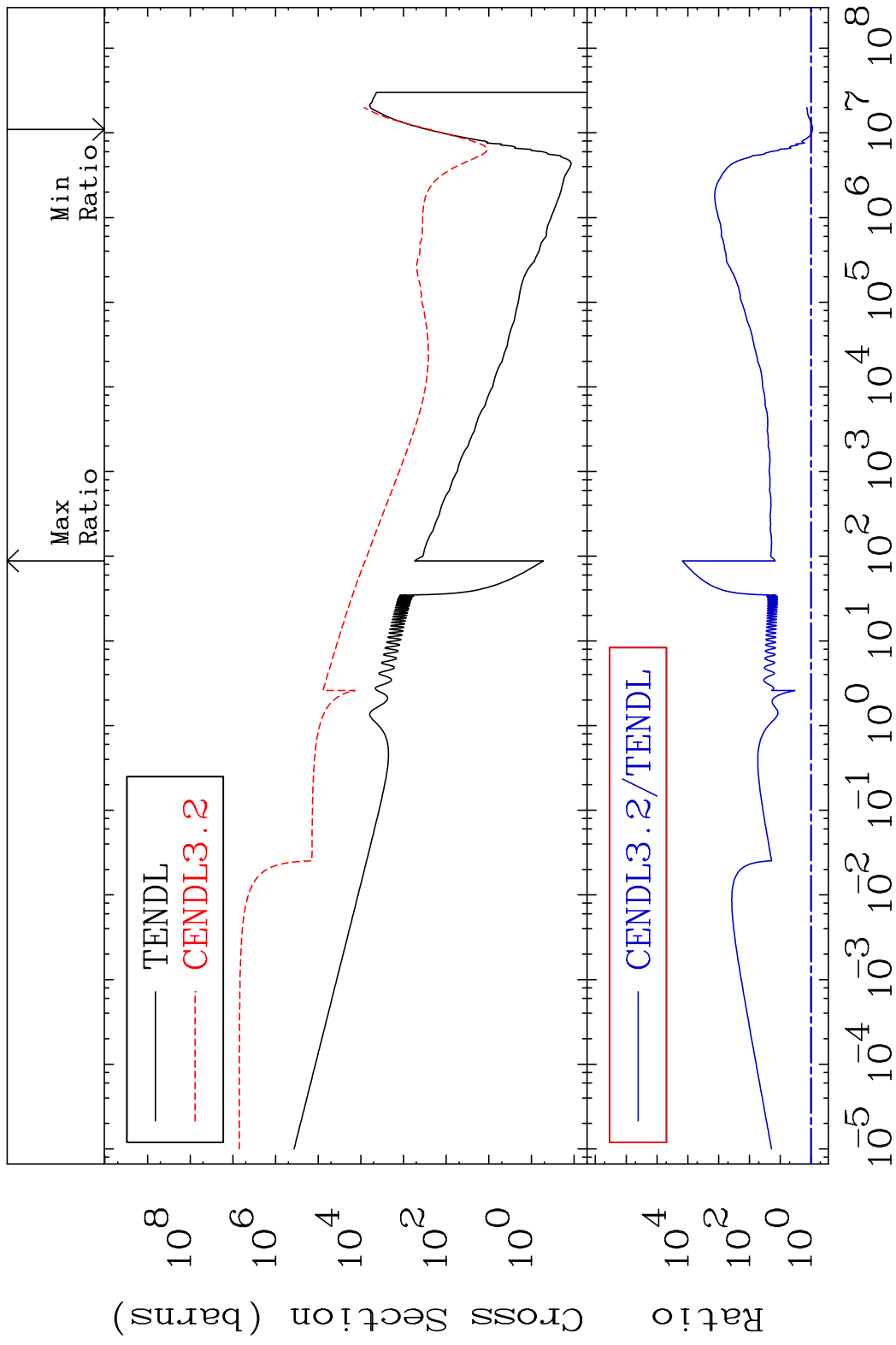
Incident Energy (eV)

61-Pm-149

MAT 6155 Dpa inelastic (mt51-91) 61-Pm-149  
 Cross Section -37.61 To 9999. %



MAT 6155 Dpa disappearance (mt102 -120) 61-Pm-149  
 Cross Section -10.40 To 9999. %

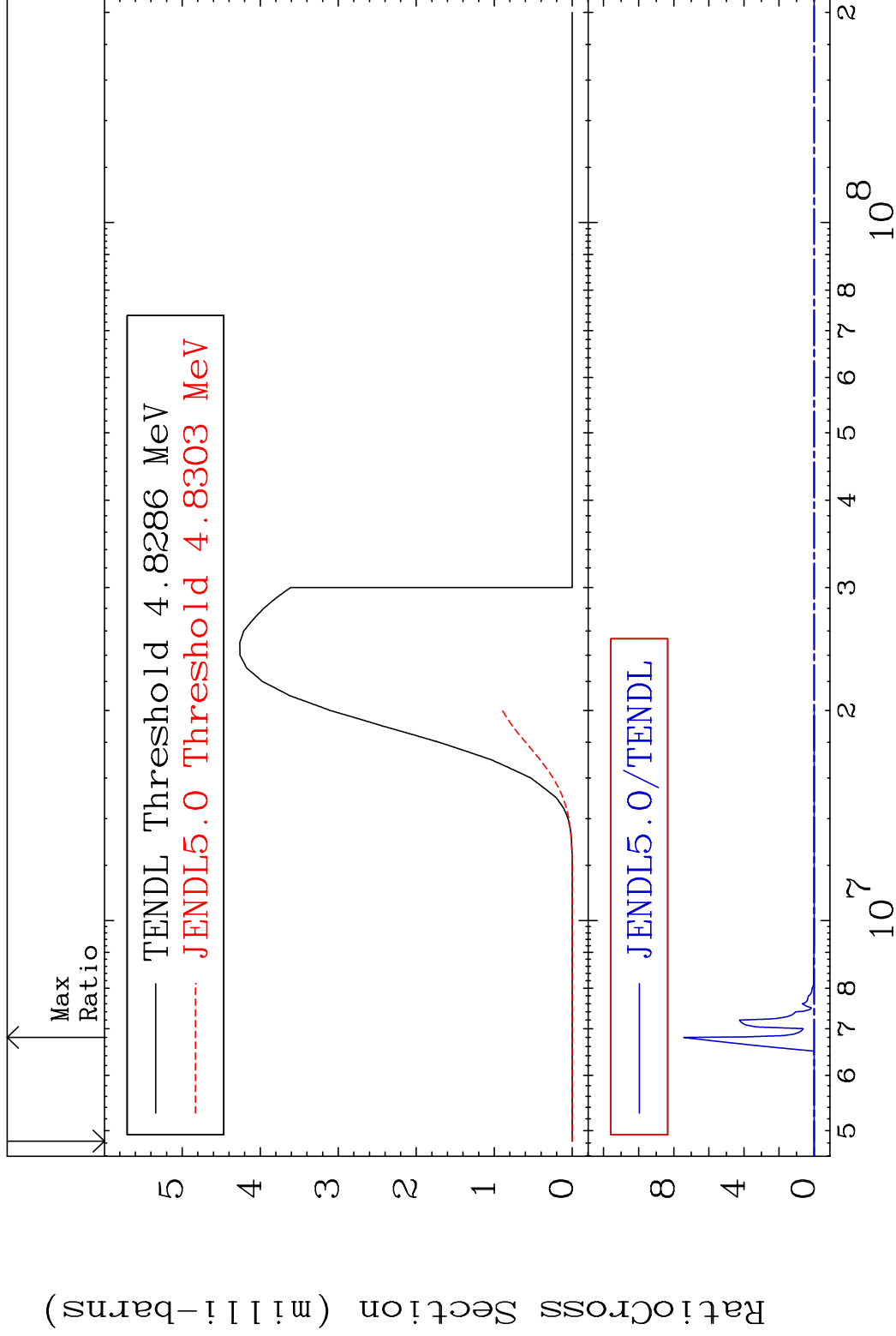


MAT 6155

(n, t)

61-Pm-149

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

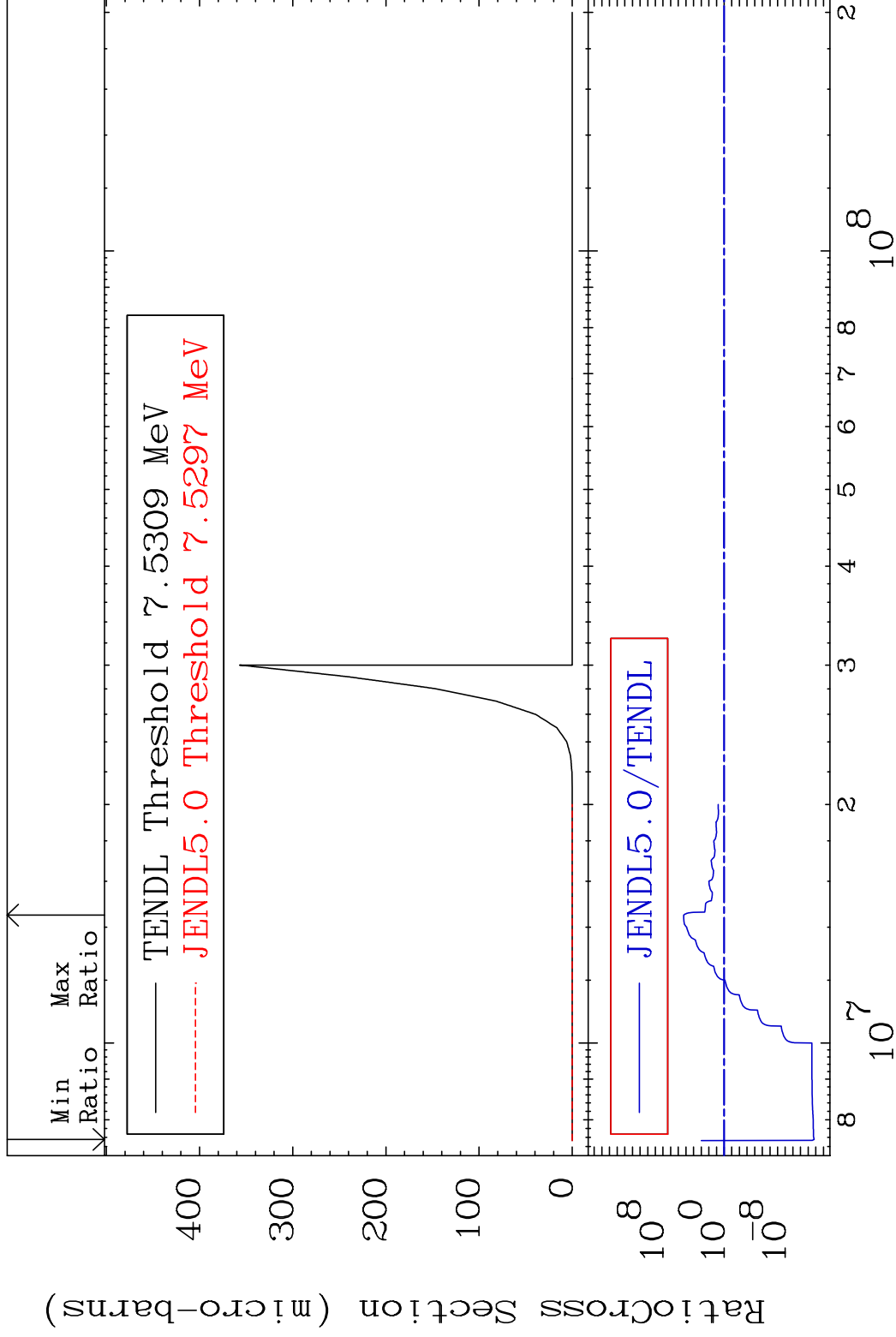
61-Pm-149

MAT 6155

(n, He-3)

61-Pm-149

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

61-Pm-149

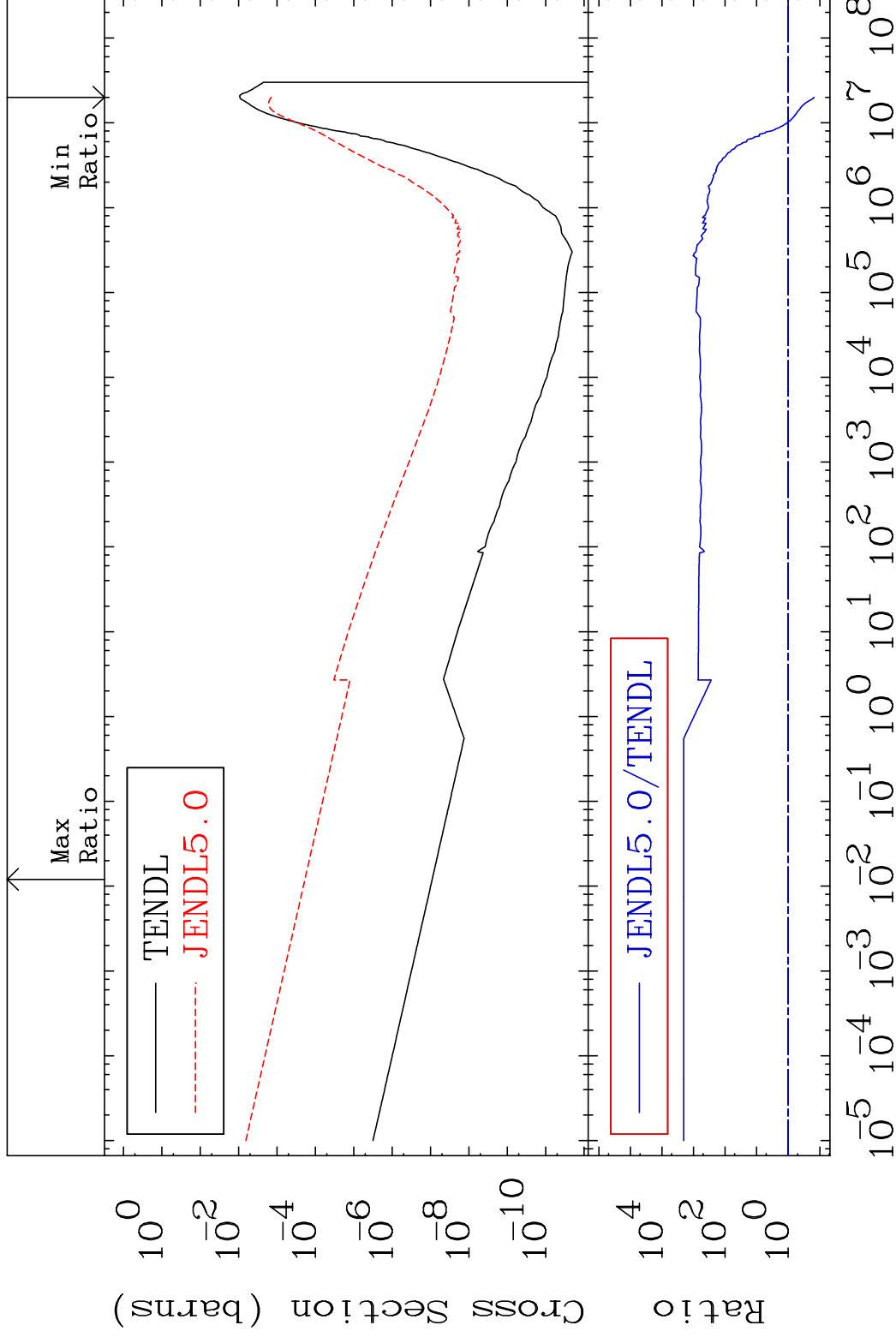


MAT 6155

(n,  $\alpha$ )

61-Pm-149

Cross Section -84.89 To 9999. %



48

Incident Energy (eV)

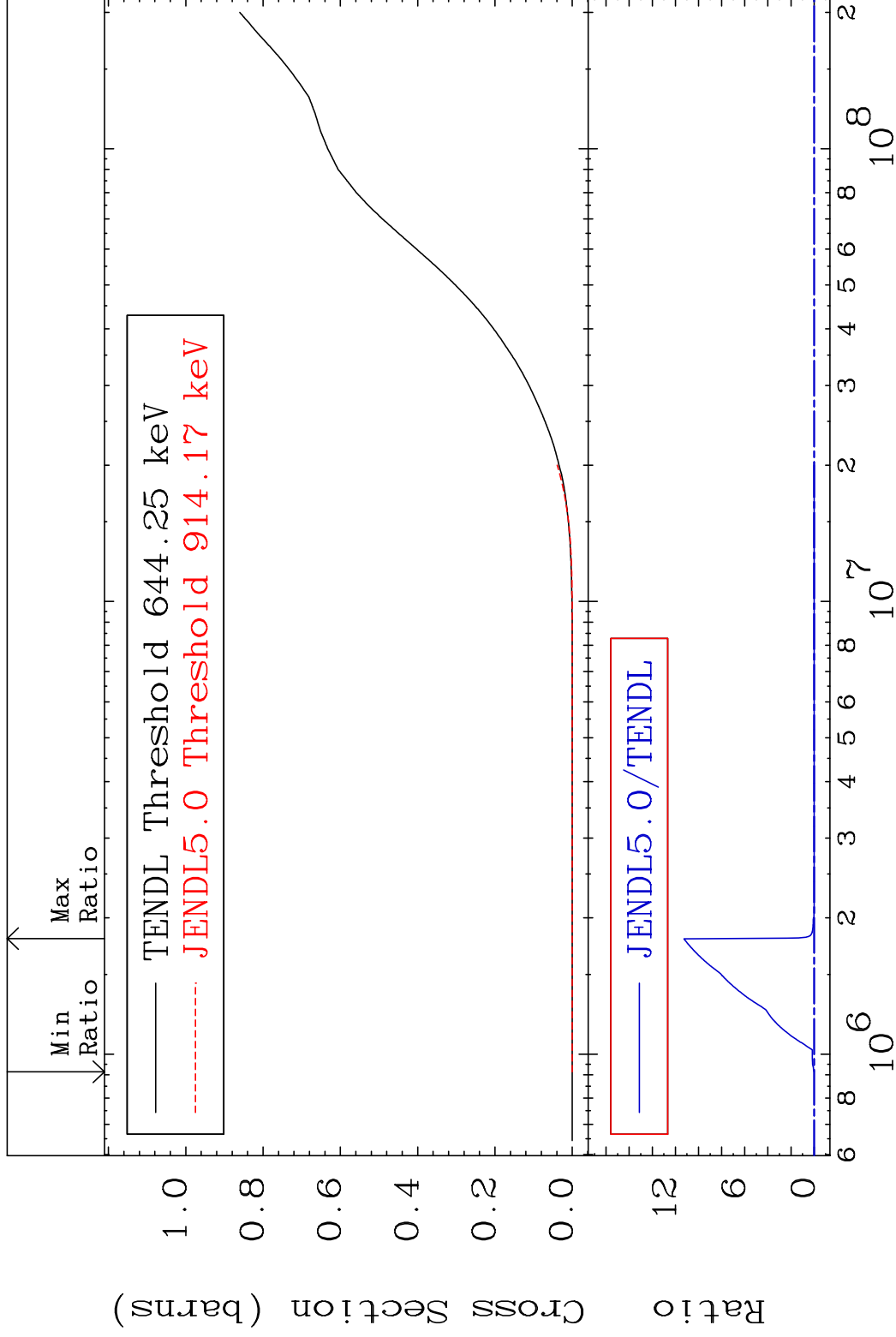
61-Pm-149

MAT 6155

Hydrogen Production

61-Pm-149

Cross Section -100.0 To 9999. %



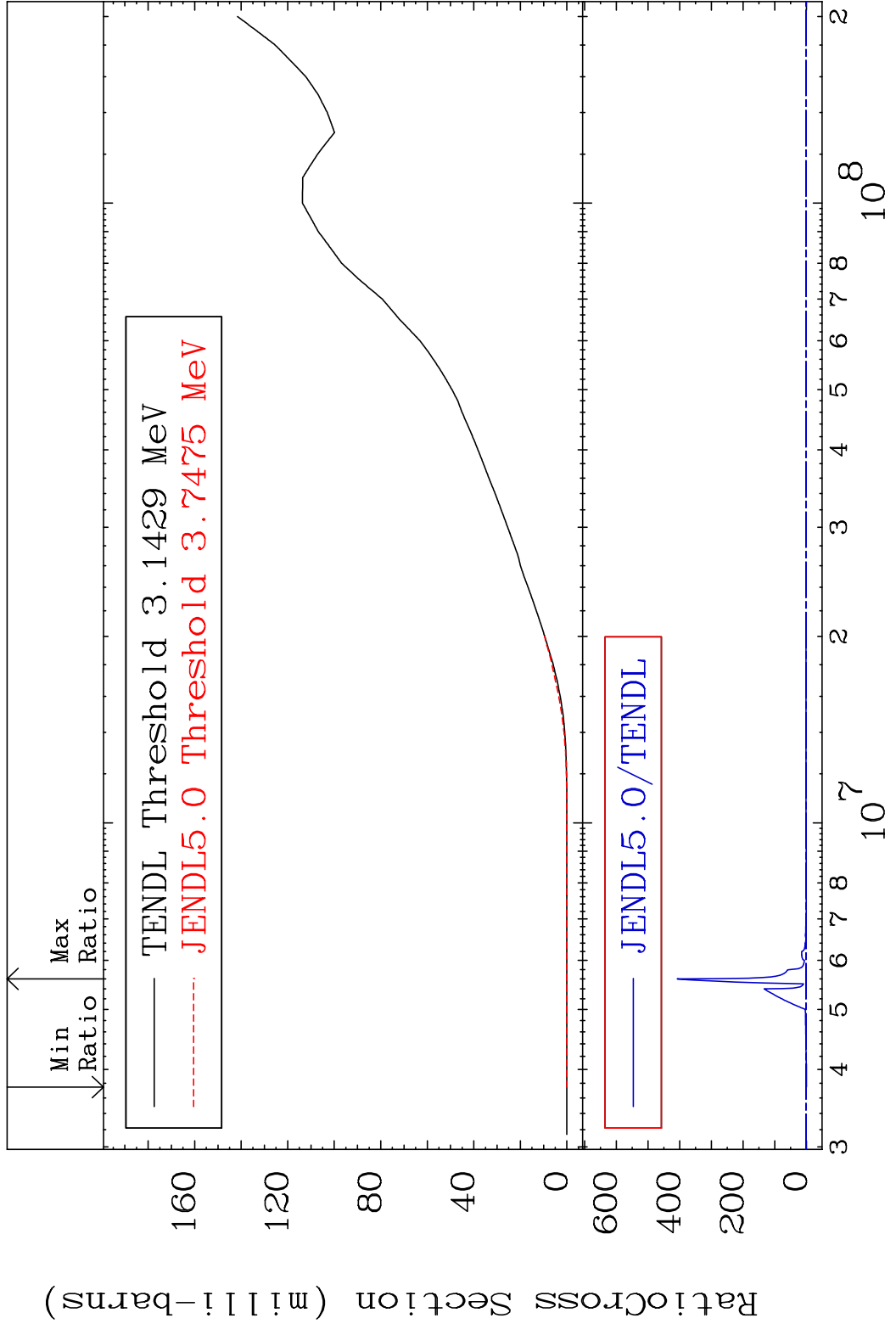
49

Incident Energy (eV)

61-Pm-149

MAT 6155

Deuterium Production 61-Pm-149  
Cross Section -100.0 To 9999. %



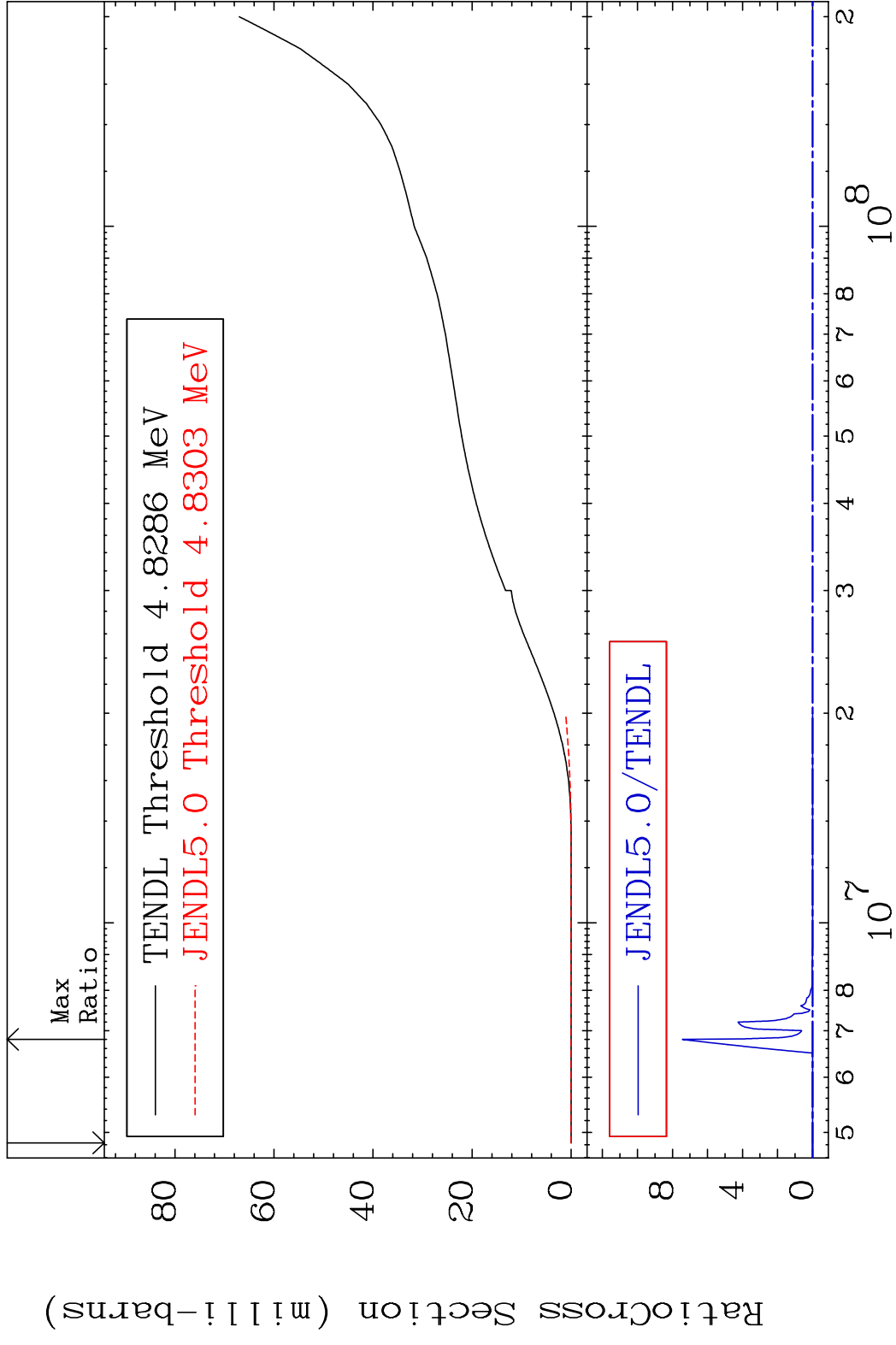
50

Incident Energy (eV)

61-Pm-149

MAT 6155

Tritium Production 61-Pm-149  
Cross Section -100.0 To 9999. %

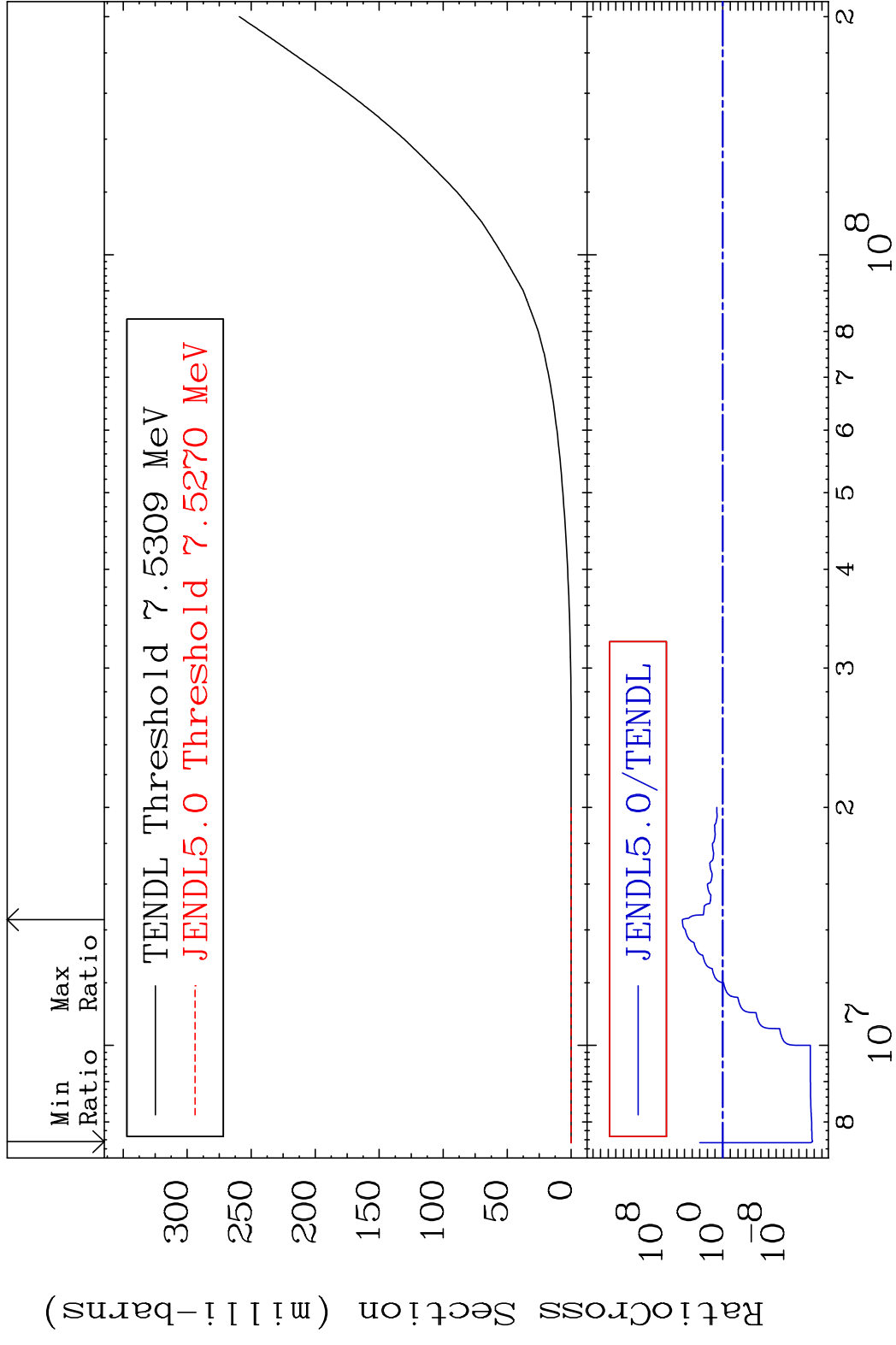


MAT 6155

He-3 Production

61-Pm-149

Cross Section -100.0 To 9999. %

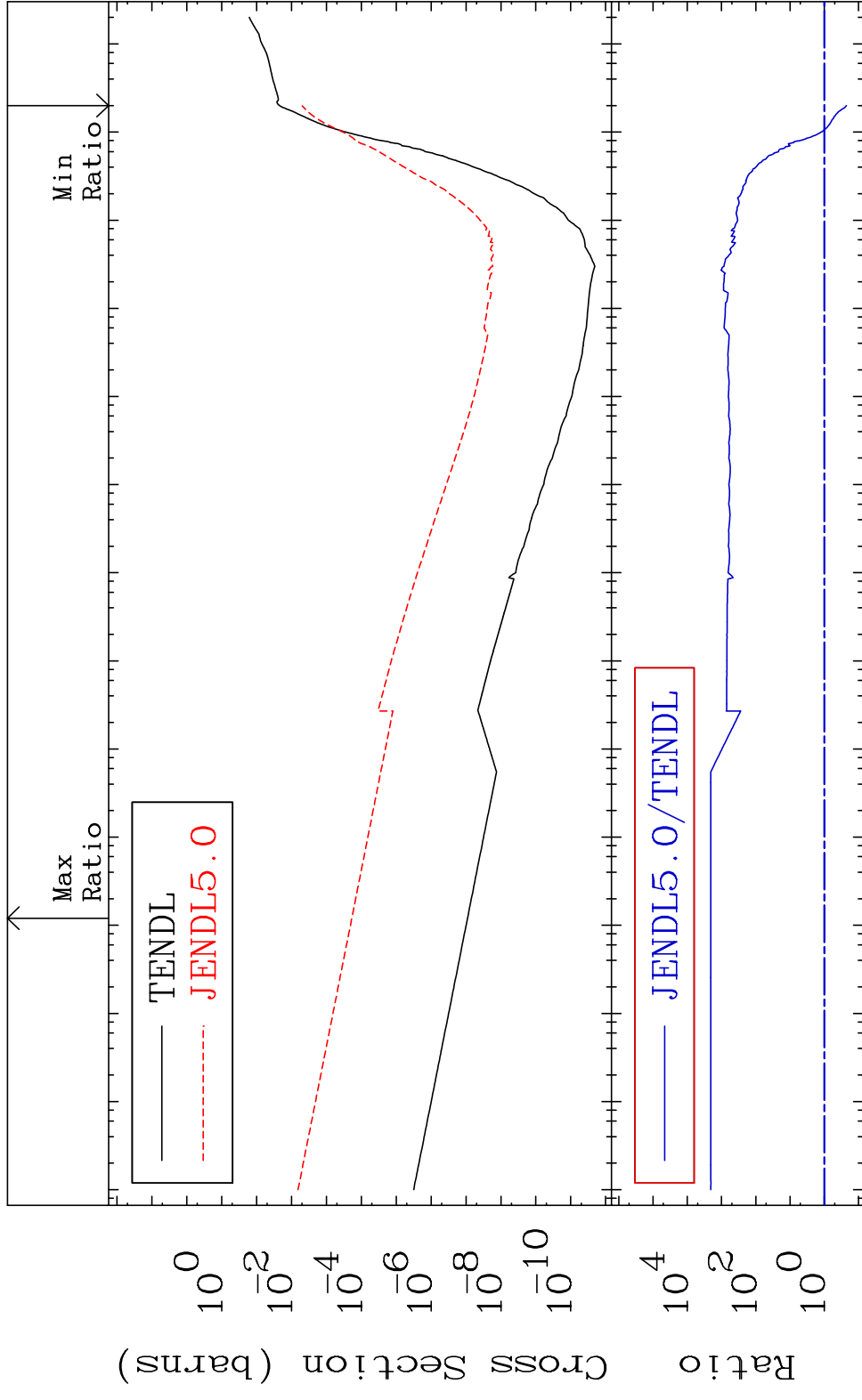


MAT 6155

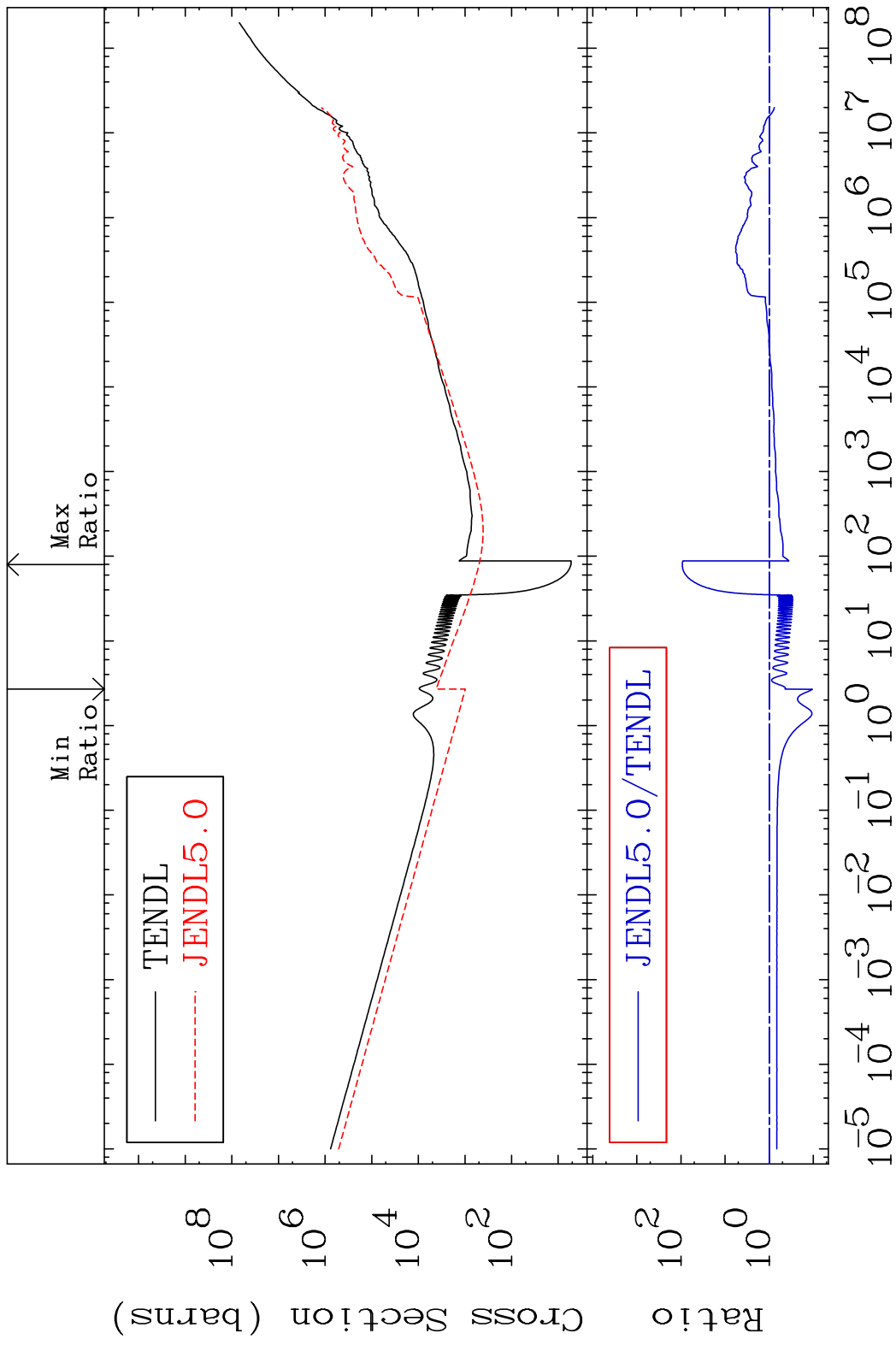
He-4 Production

61-Pm-149

Cross Section -77.18 To 9999. %



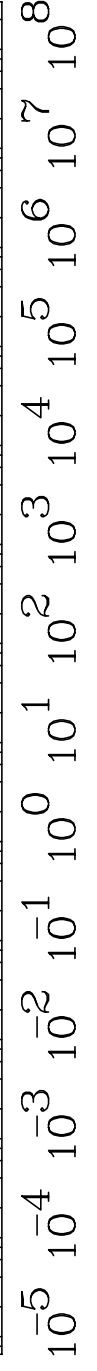
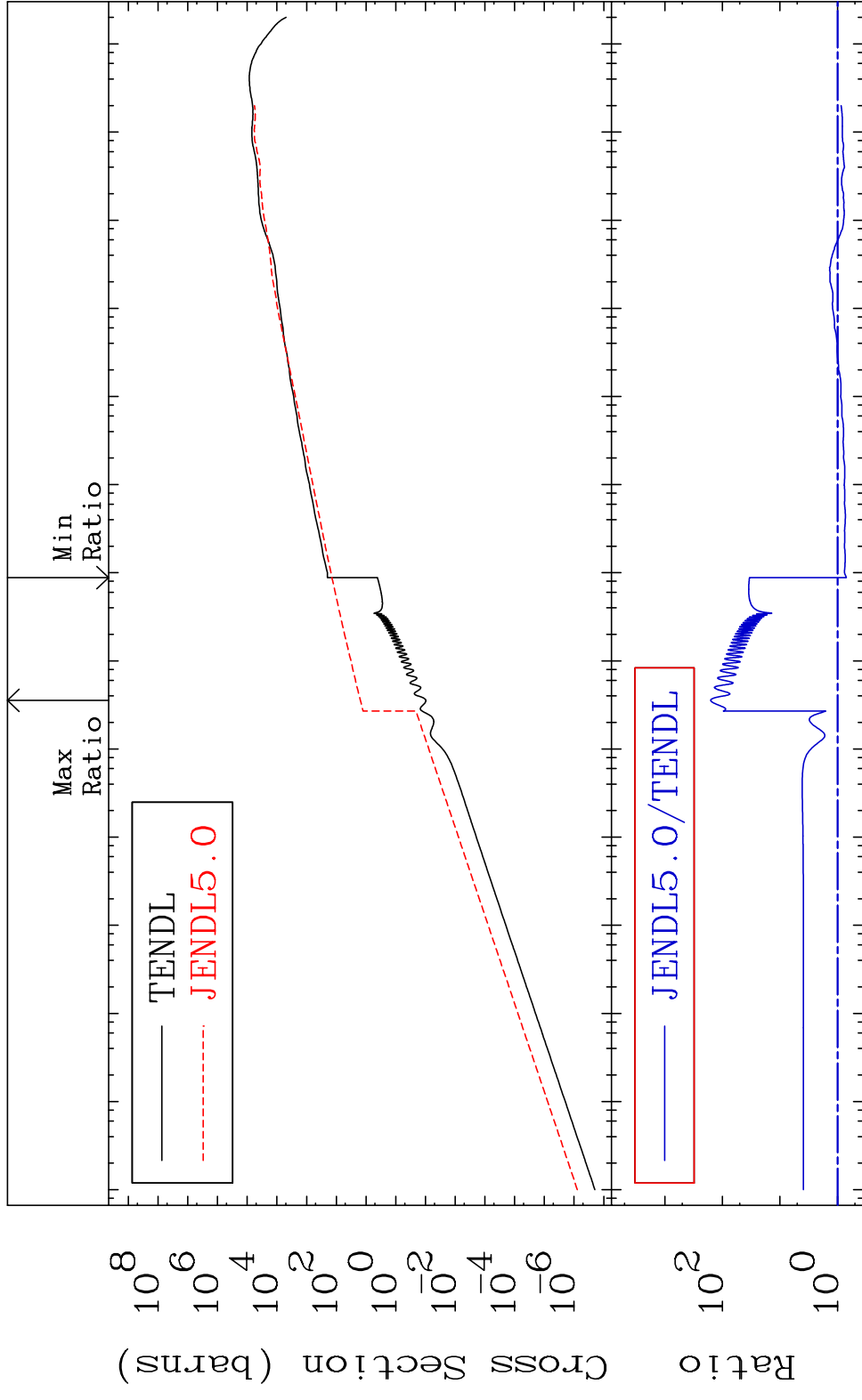
MAT 6155 Kerma total (eV-barns) 61-Pm-149  
 Cross Section -89.60 To 9208. %



MAT 6155

Kerma elastic  
Cross Section

61-Pm-149  
-29.64 To 9999. %



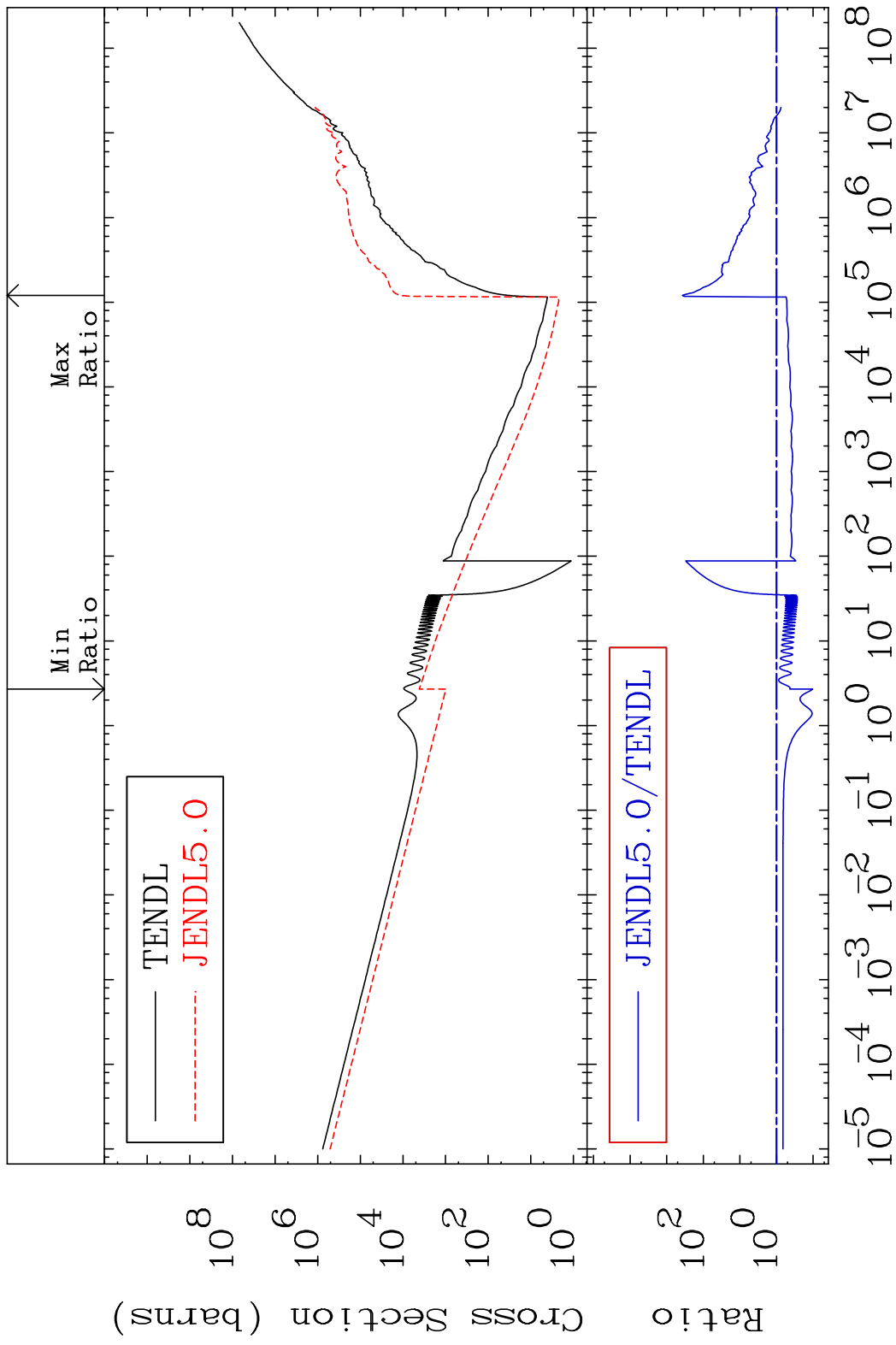
55

Incident Energy (eV)

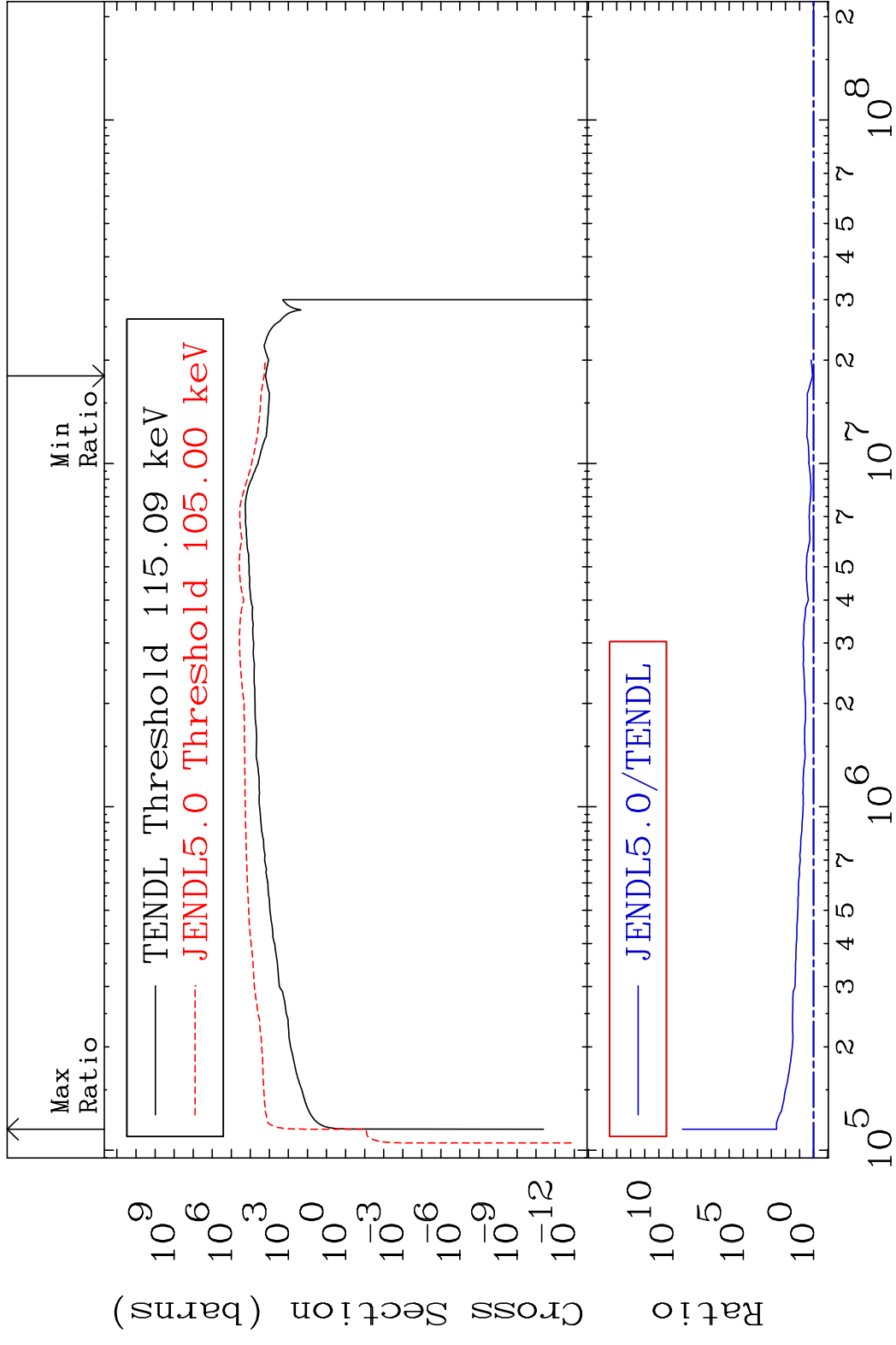
61-Pm-149



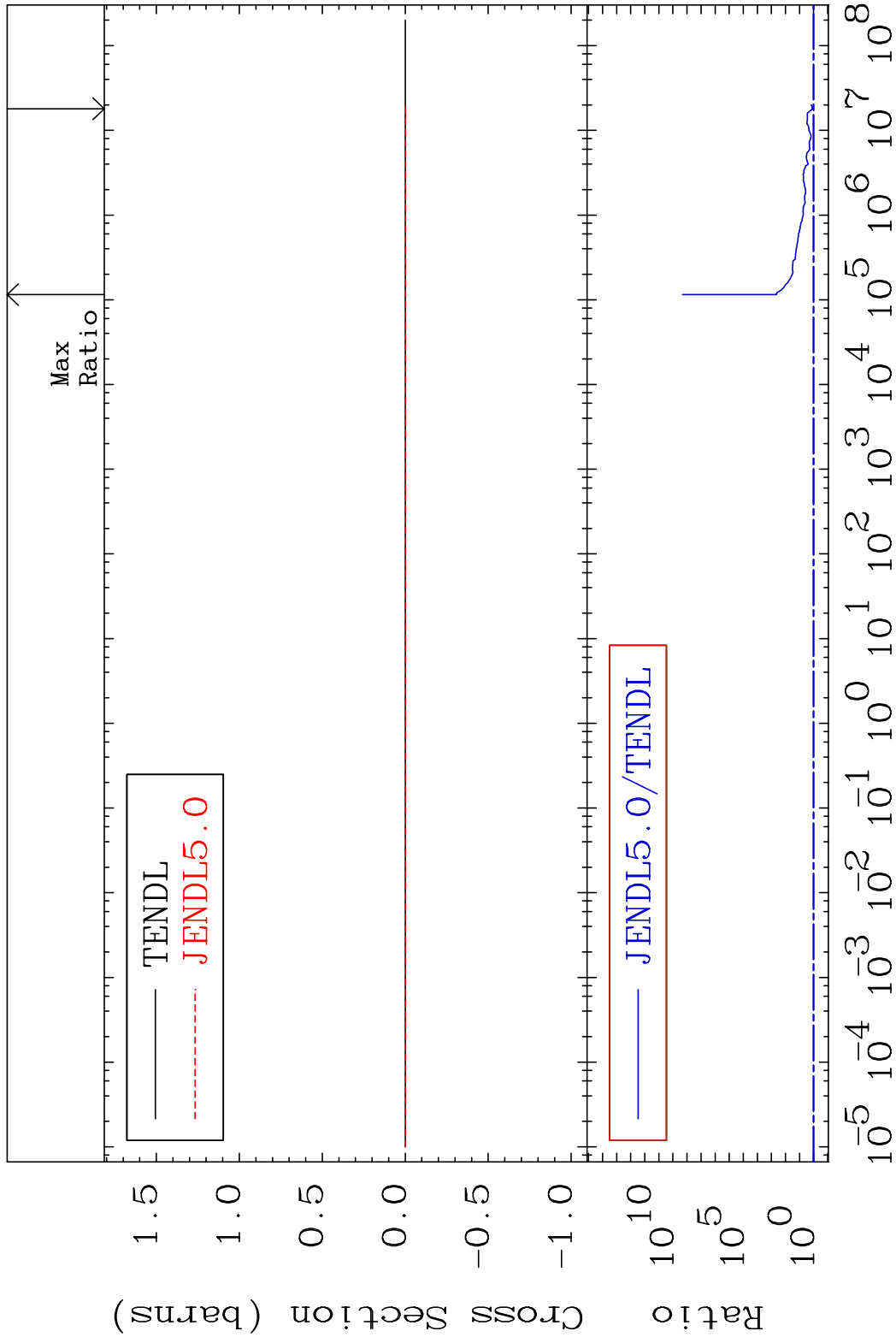
MAT 6155 Kerma non-elastic (all but mt2) 61-Pm-149  
 Cross Section -89.60 To 9999. %



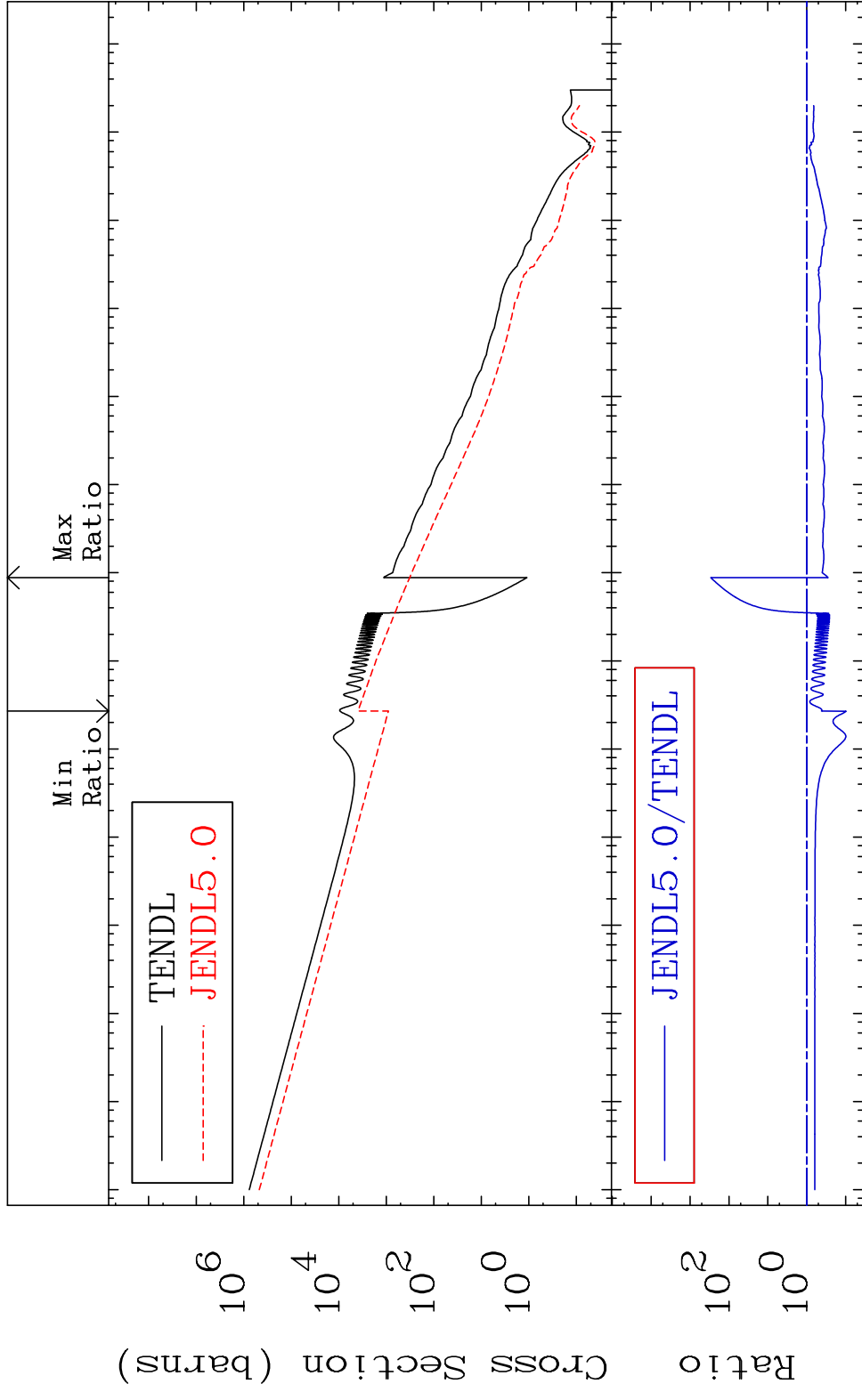
MAT 6155 Kerma inelastic (mt51-91) 61-Pm-149  
 Cross Section 18.53 To 9999. %



MAT 6155 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-149  
 Cross Section 18.53 To 9999. %

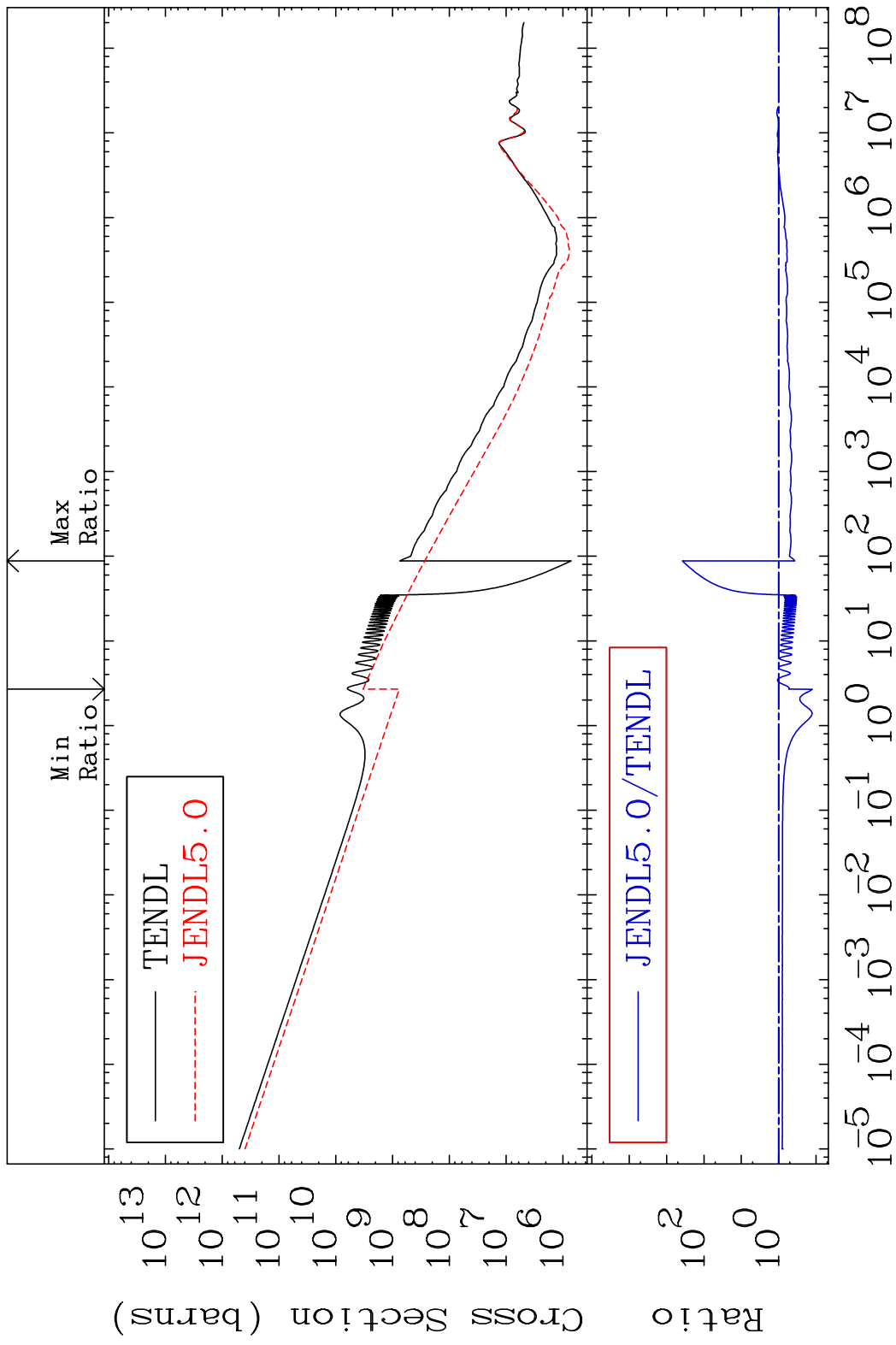


MAT 6155 Kerma capture (mt102) 61-Pm-149  
 Cross Section -90.43 To 9999. %



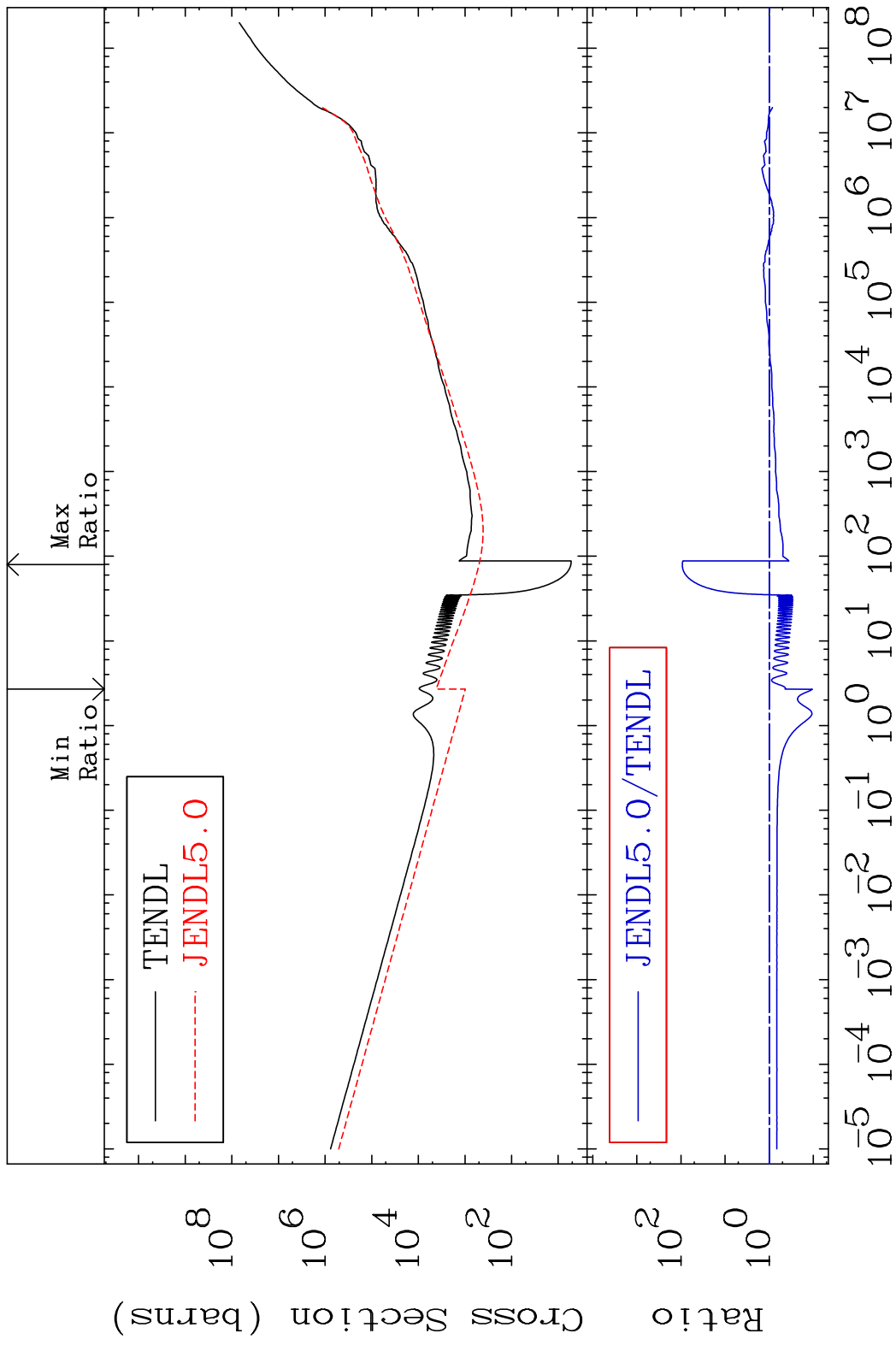
59 Incident Energy (eV) 61-Pm-149

MAT 6155 Total photon (eV-barns) 61-Pm-149  
Cross Section -87.68 To 9999. %

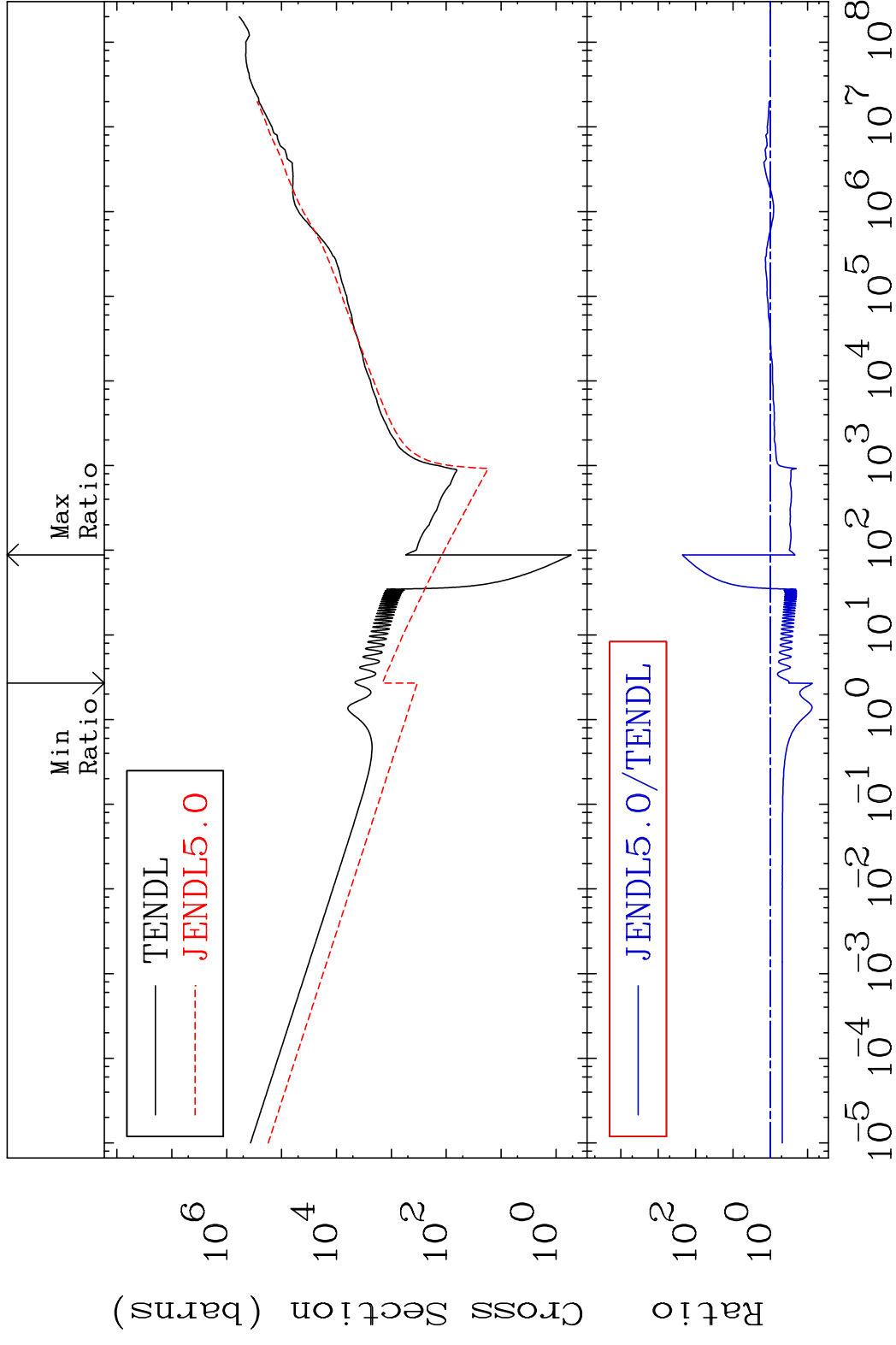


60 Incident Energy (eV) 61-Pm-149

MAT 6155 Total kinematic kerma (high limit) 61-Pm-149  
 Cross Section -89.60 To 9208. %



MAT 6155 Dpa total (eV-barns) 61-Pm-149  
 Cross Section -92.60 To 9999. %

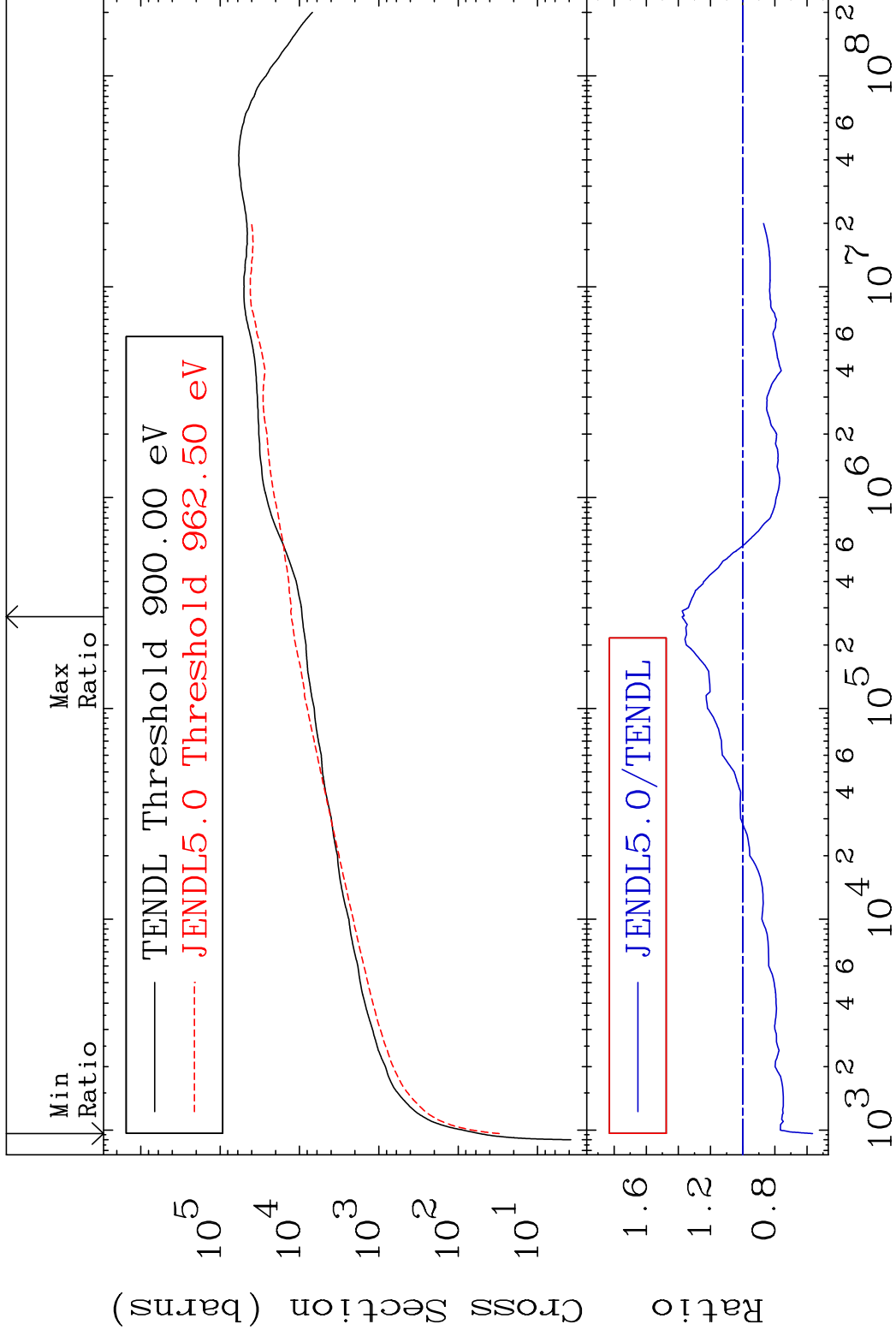


MAT 6155

Dpa elastic (mt2)

61-Pm-149

Cross Section -43.39 To 37.66 %



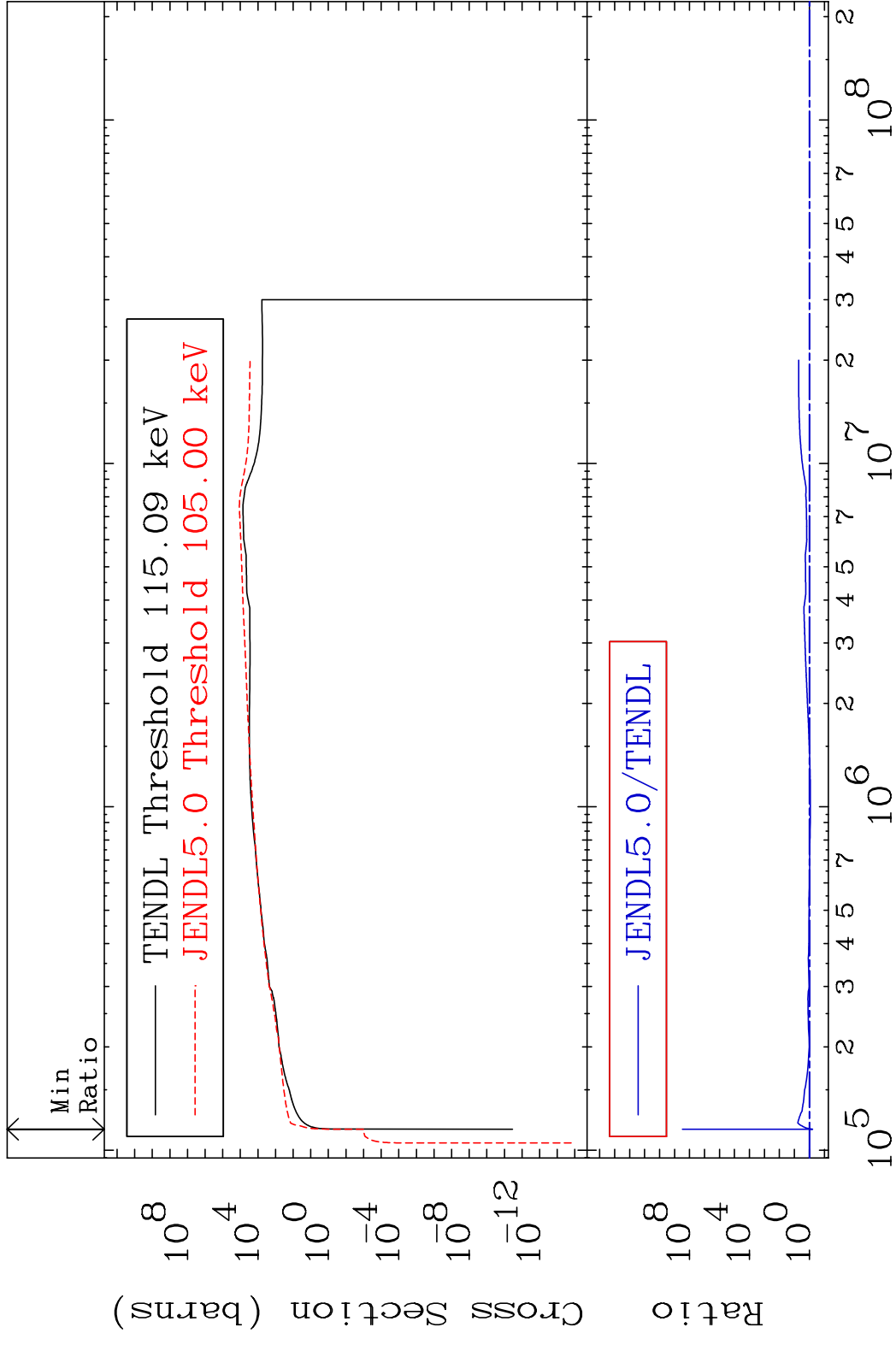
63

Incident Energy (eV)

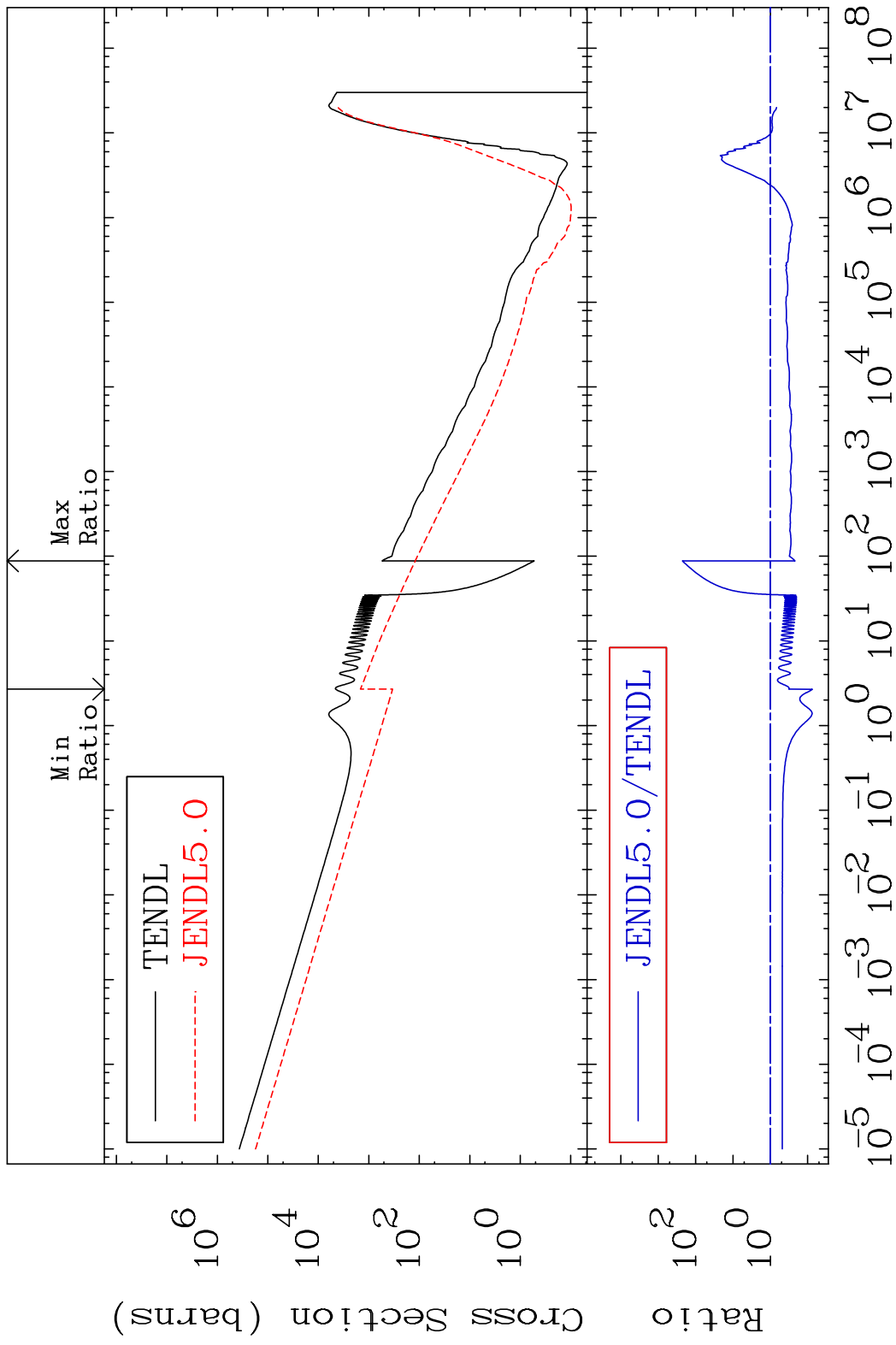
61-Pm-149



MAT 6155 Dpa inelastic (mt51-91) 61-Pm-149  
 Cross Section -38.68 To 9999. %



MAT 6155 Dpa disappearance (mt102 -120) 61-Pm-149  
 Cross Section -92.60 To 9999. %



65 Incident Energy (eV) 61-Pm-149