

Program Complot  
(Version 2021-1)

by

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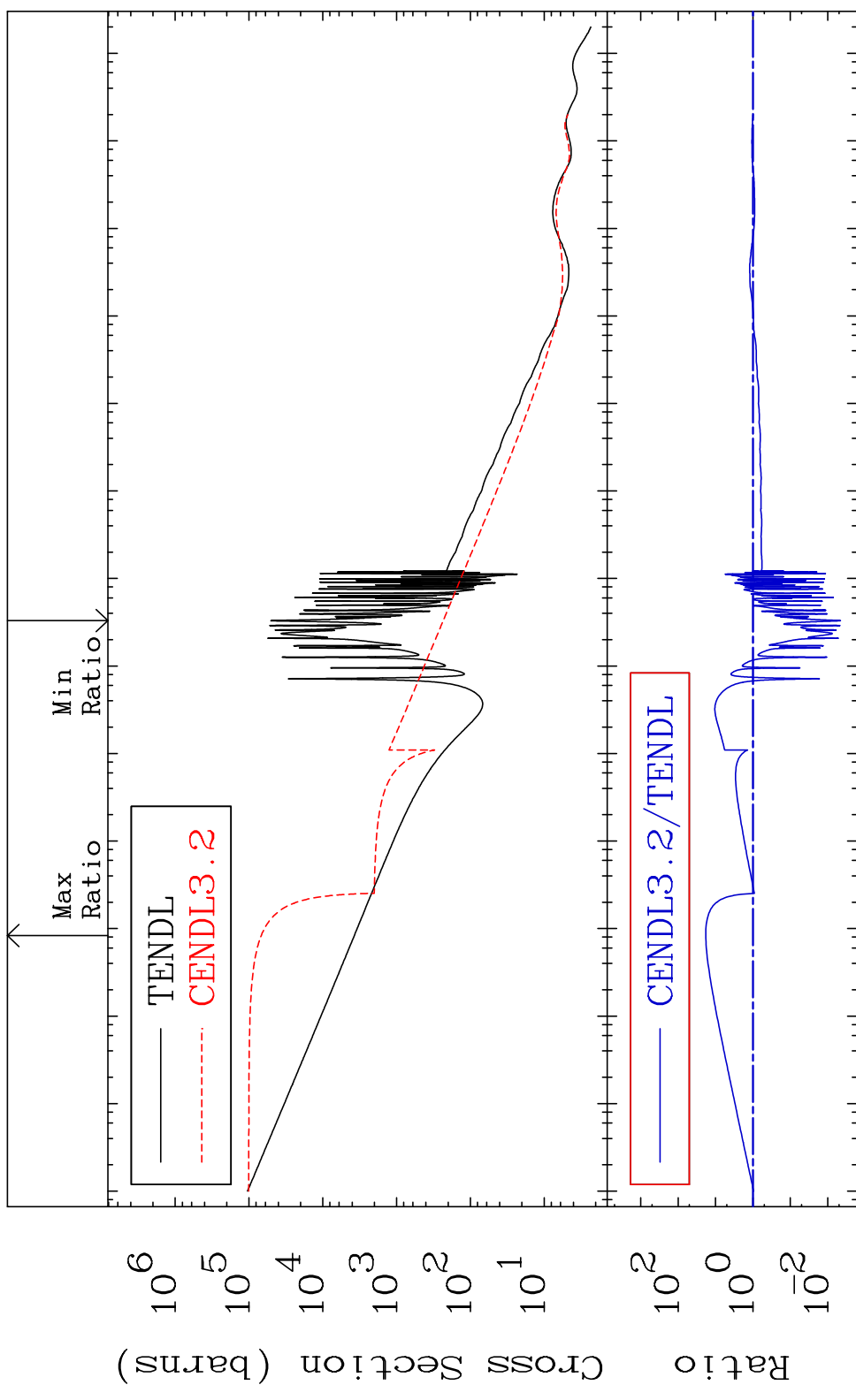
Press Mouse Button to Start

MAT 6152

Total

61-Pm-148

Cross Section -99.54 To 1724. %



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

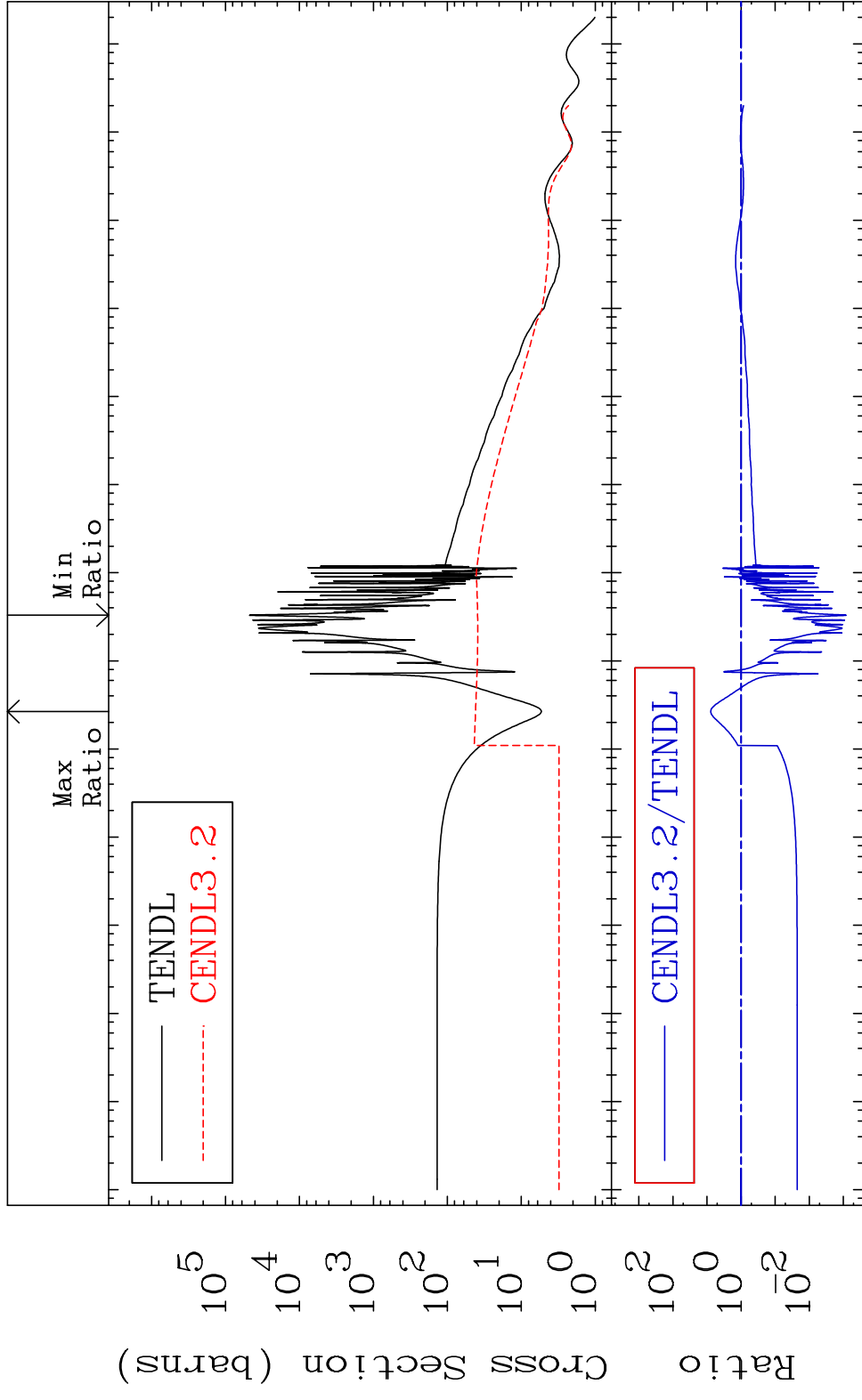
Incident Energy (eV)

61-Pm-148

MAT 6152

Elastic Cross Section -99.92 To 676.8 %

61-Pm-148



2

Incident Energy (eV)

61-Pm-148

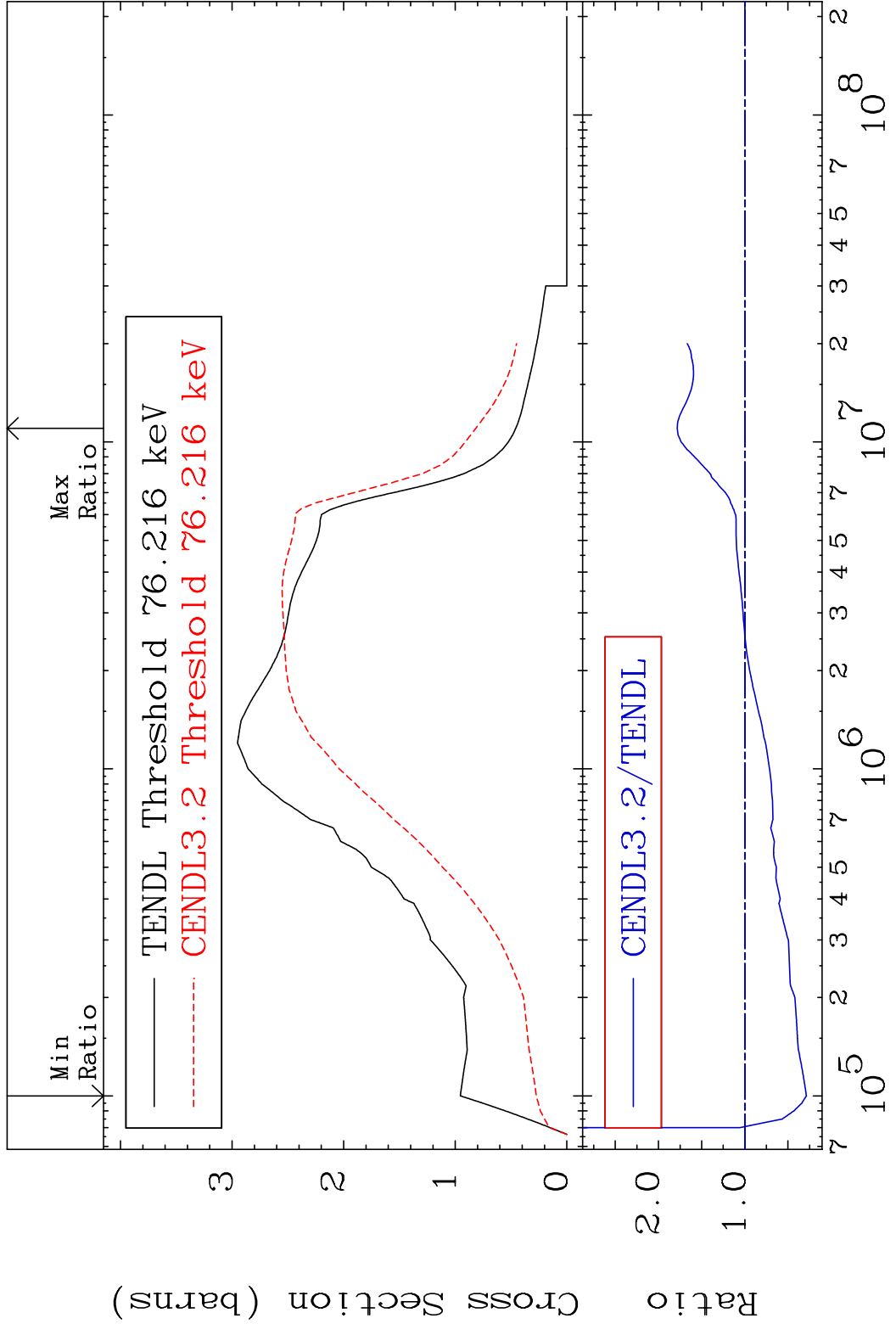
MAT 6152

Inelastic

61-Pm-148

Cross Section

-71.32 To 78.32 %



3

Incident Energy (eV)

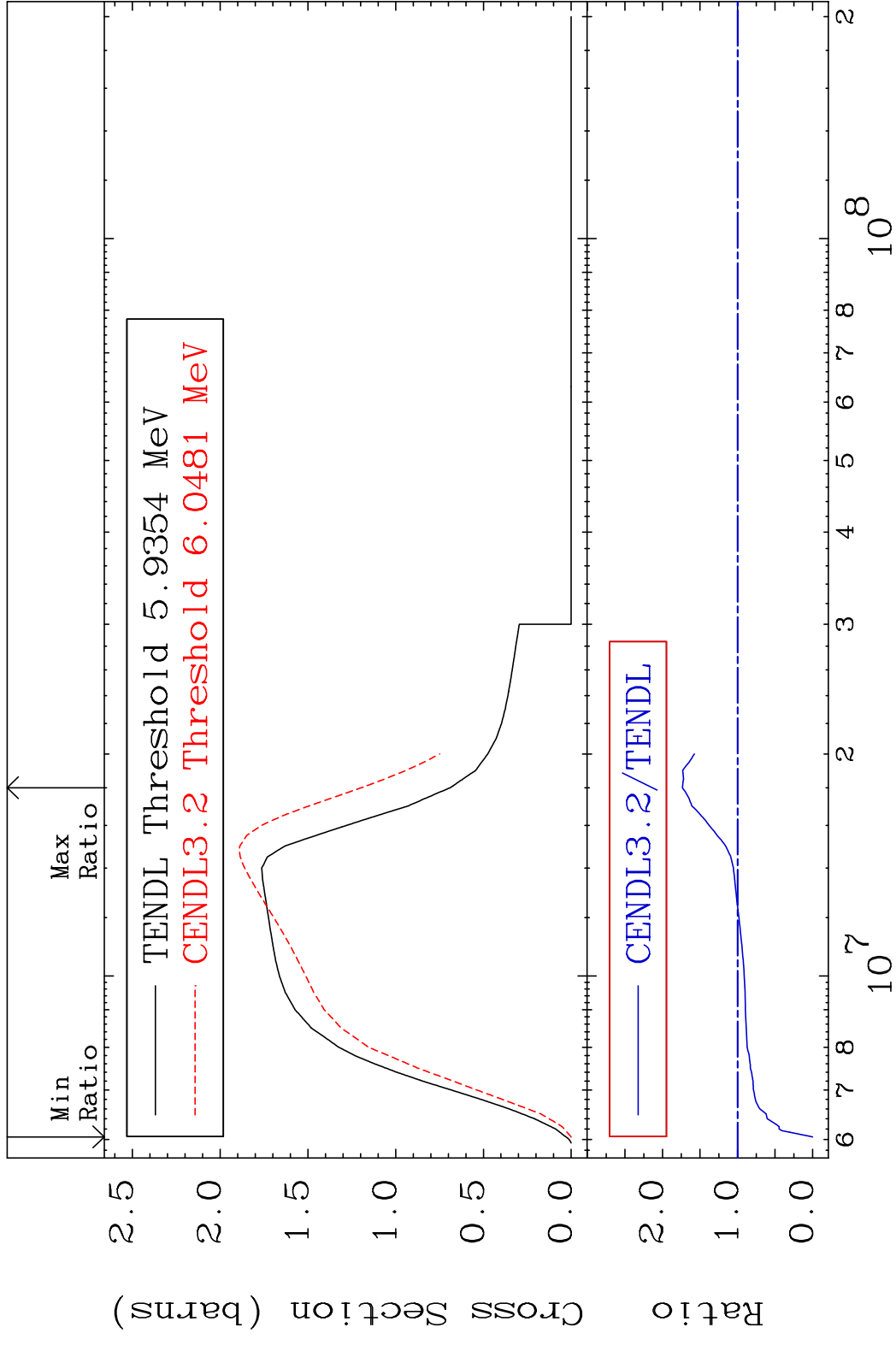
61-Pm-148

MAT 6152

(n,2n)

61-Pm-148

Cross Section -100.0 To 73.56 %



4

Incident Energy (eV)

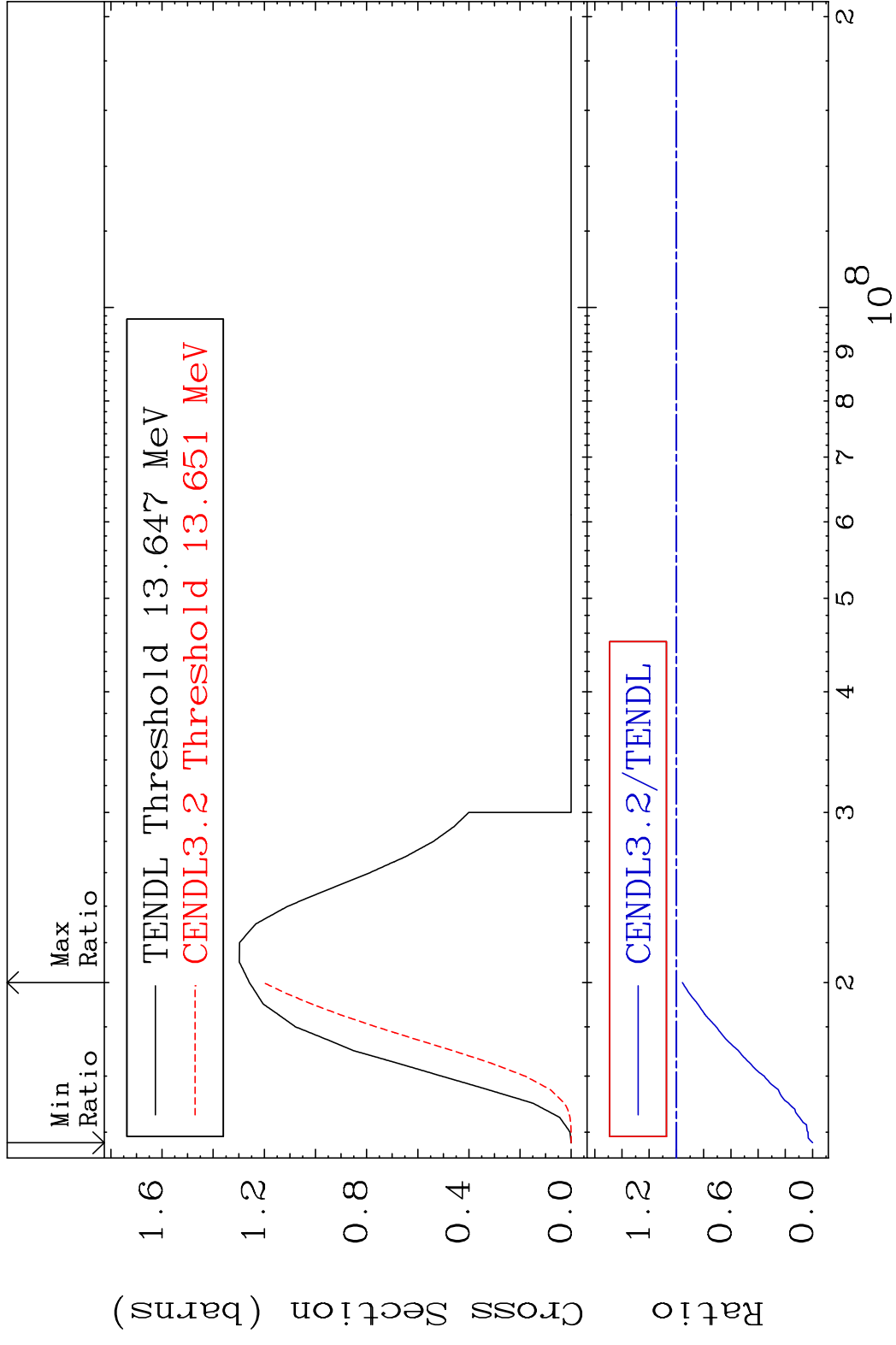
61-Pm-148

MAT 6152

(n,3n)

61-Pm-148

Cross Section -100.0 To -4.362%



5

Incident Energy (eV)

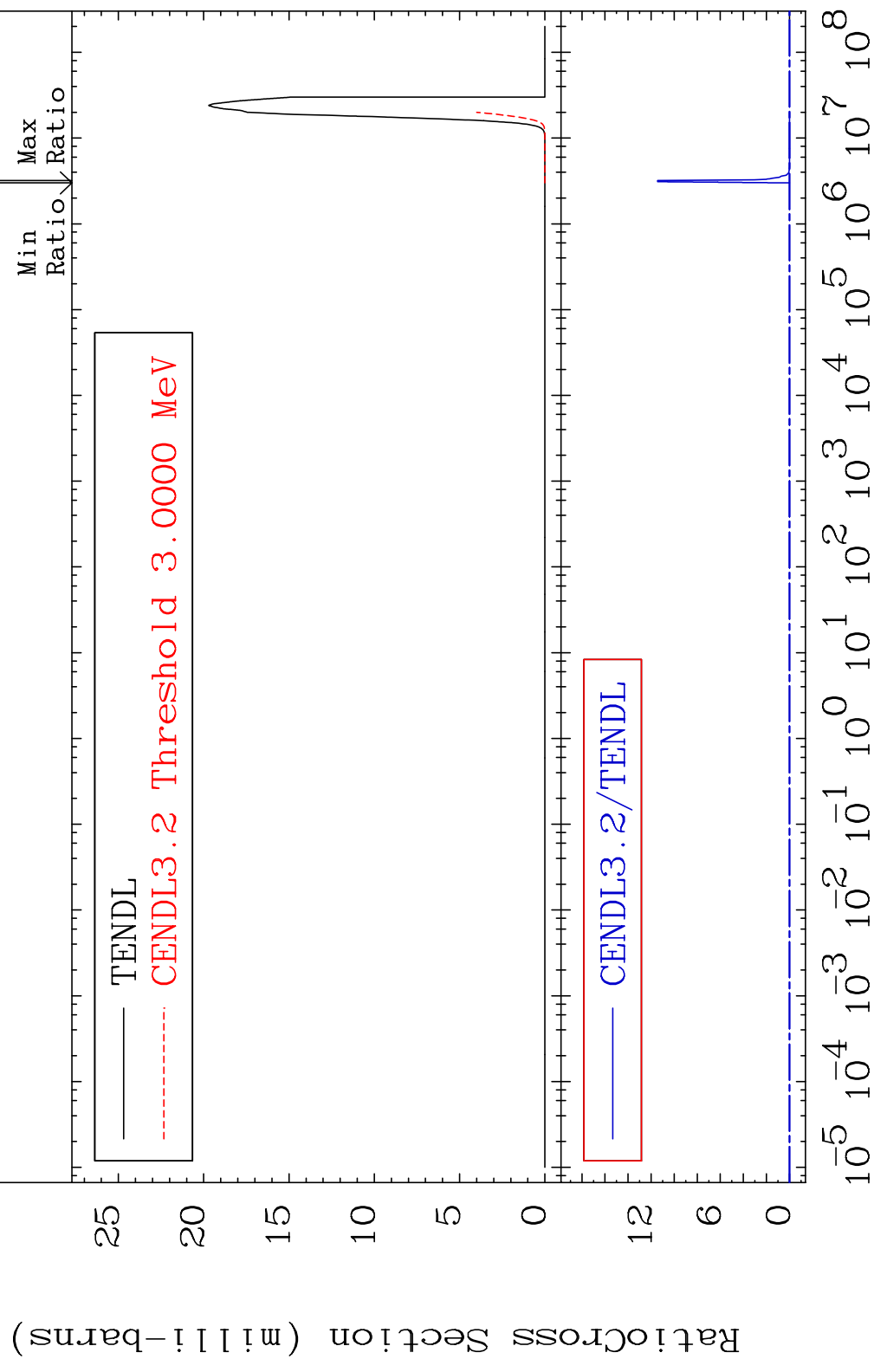
61-Pm-148

MAT 6152

(n, n')  $\alpha$

61-Pm-148

Cross Section -100.0 To 9999. %

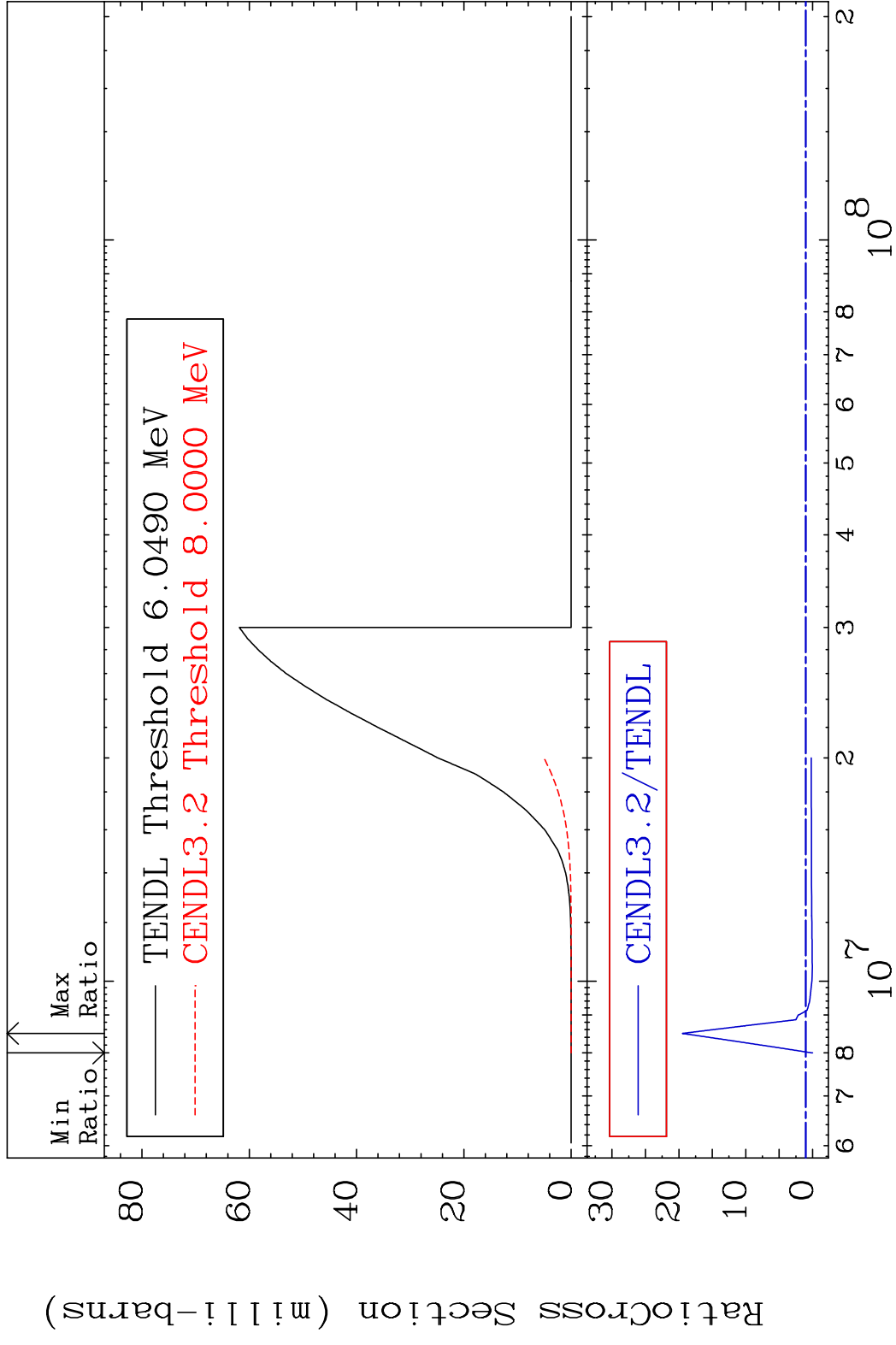


MAT 6152

(n, n') p

61-Pm-148

Cross Section -100.0 To 1848. %



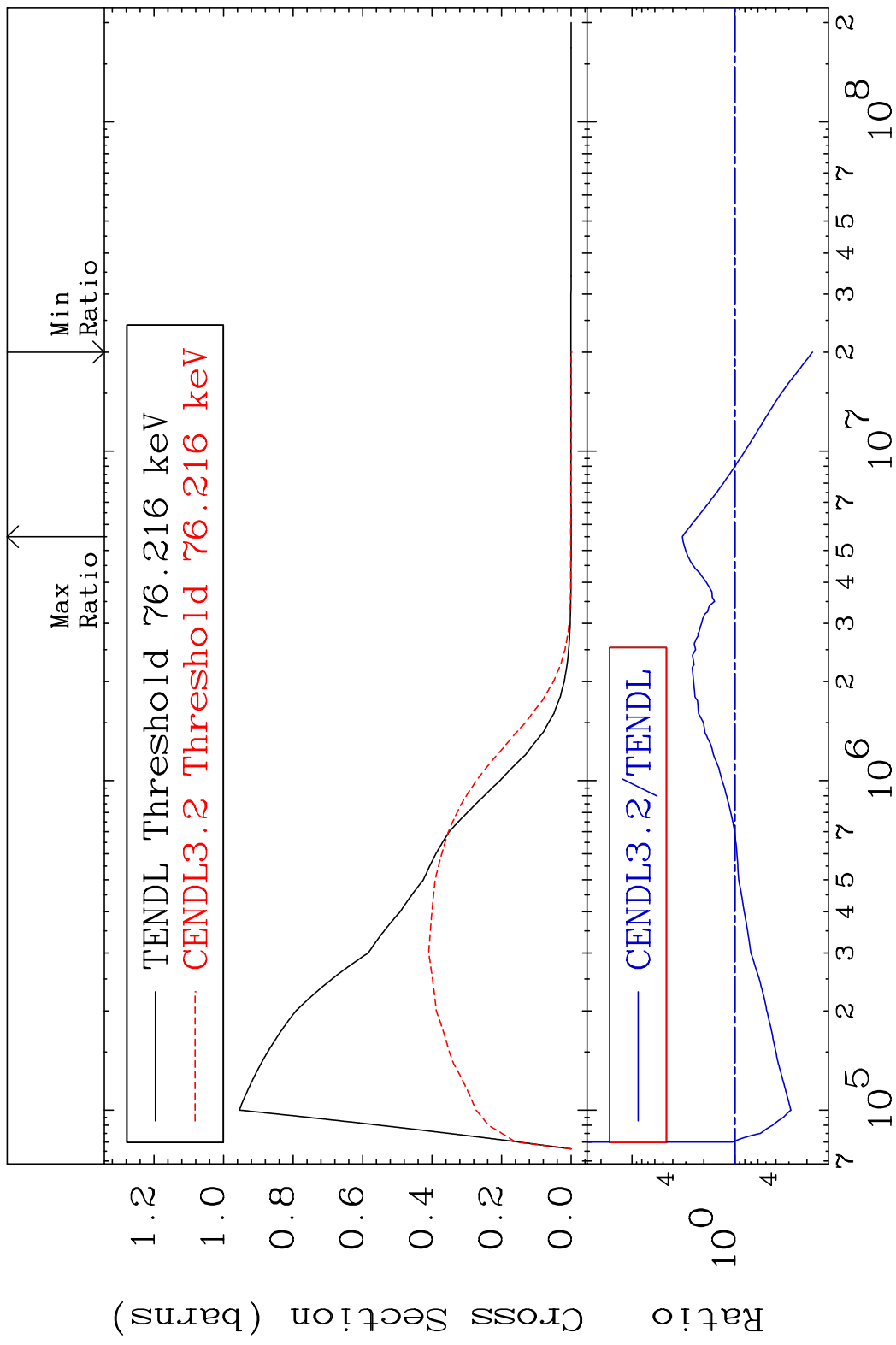
7

Incident Energy (eV)

61-Pm-148

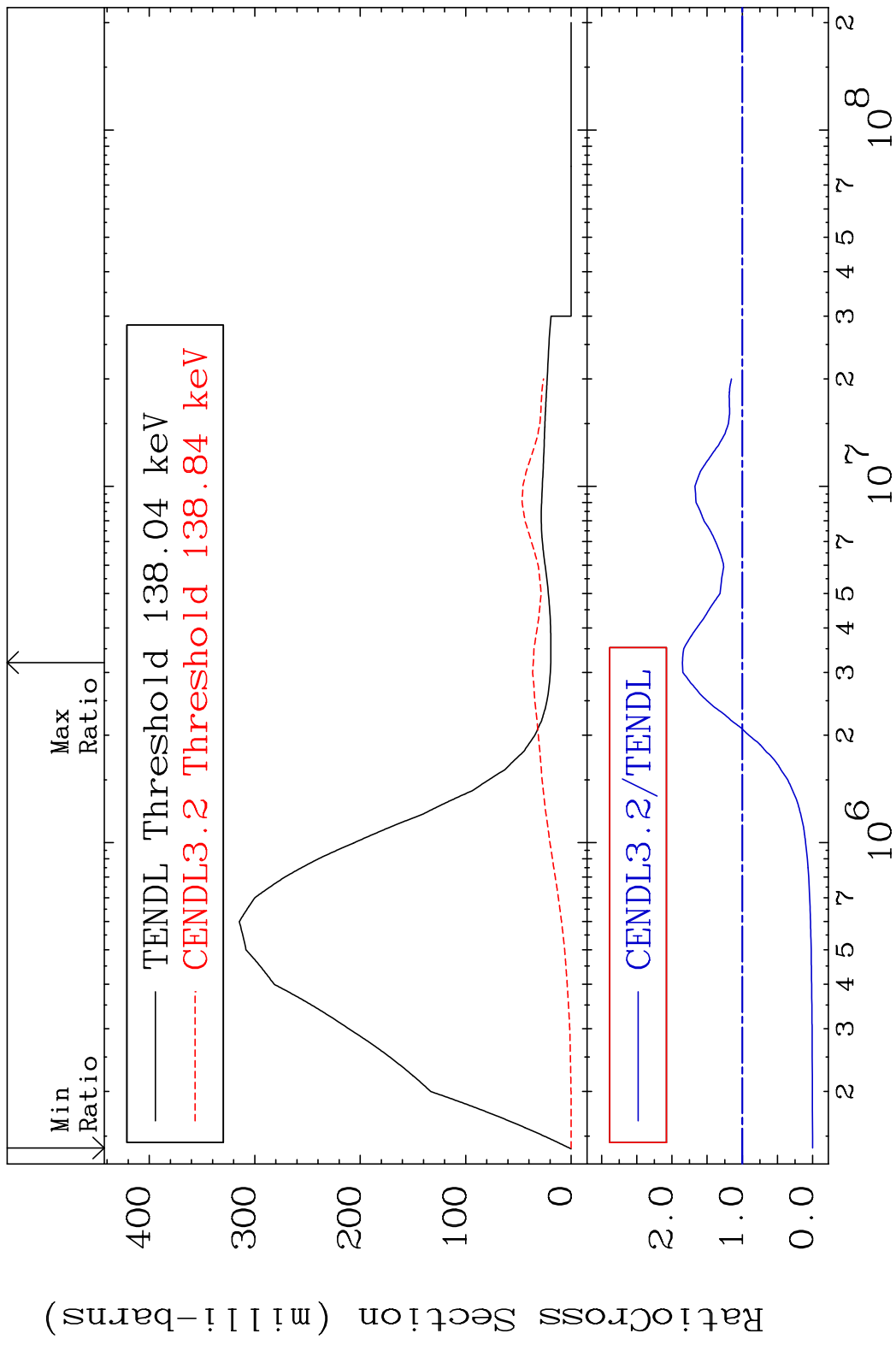


MAT 6152 MT= 51 (n, n') Level 61-Pm-148  
 Cross Section -82.35 To 223.8 %



8 Incident Energy (eV) 61-Pm-148

MAT 6152 MT= 52 (n, n') Level 61-Pm-148  
 Cross Section -100.0 To 85.24 %

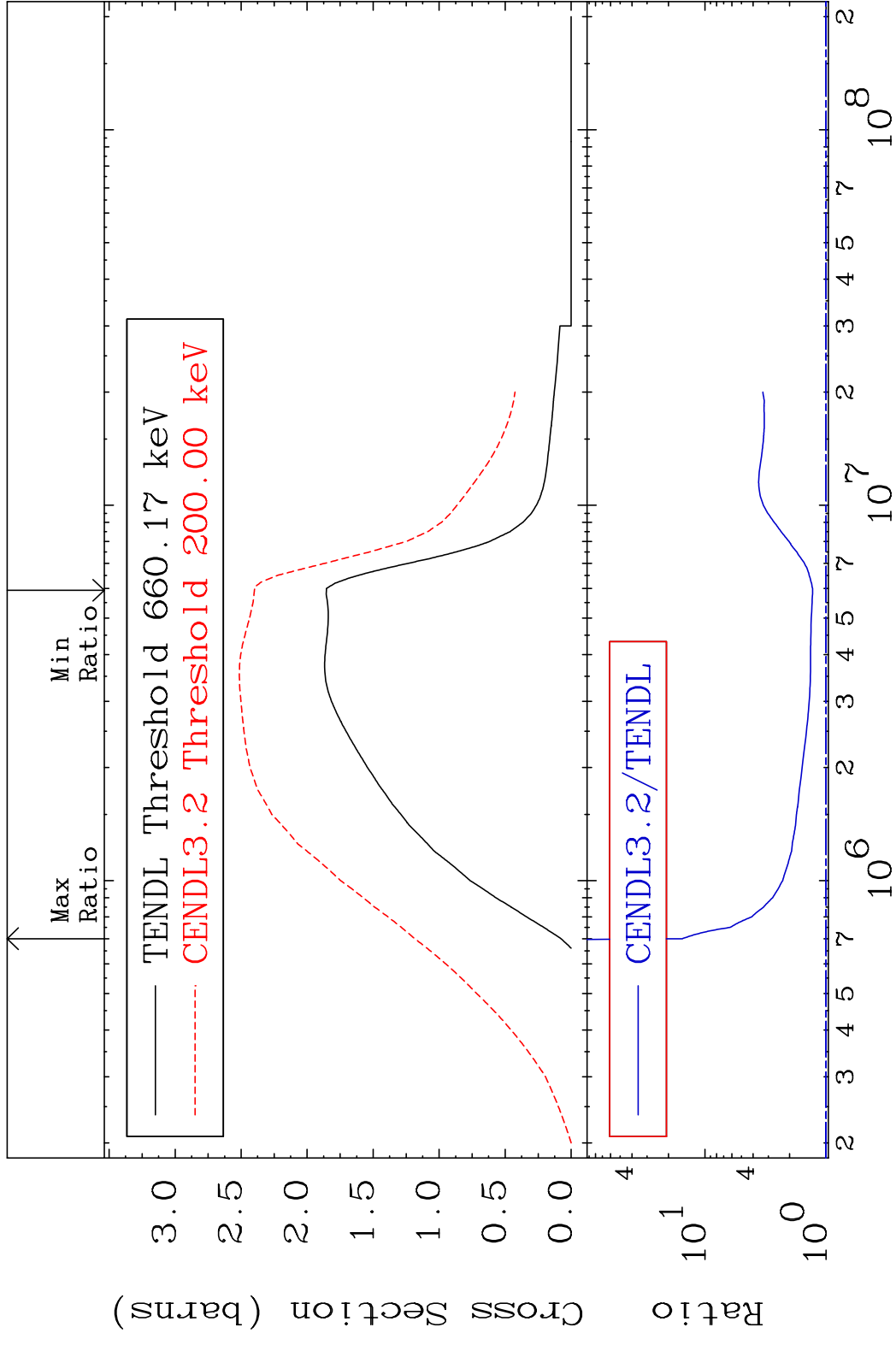


MAT 6152

(n,n') Continuum

61-Pm-148

Cross Section 29.37 To 1434. %



10

Incident Energy (eV)

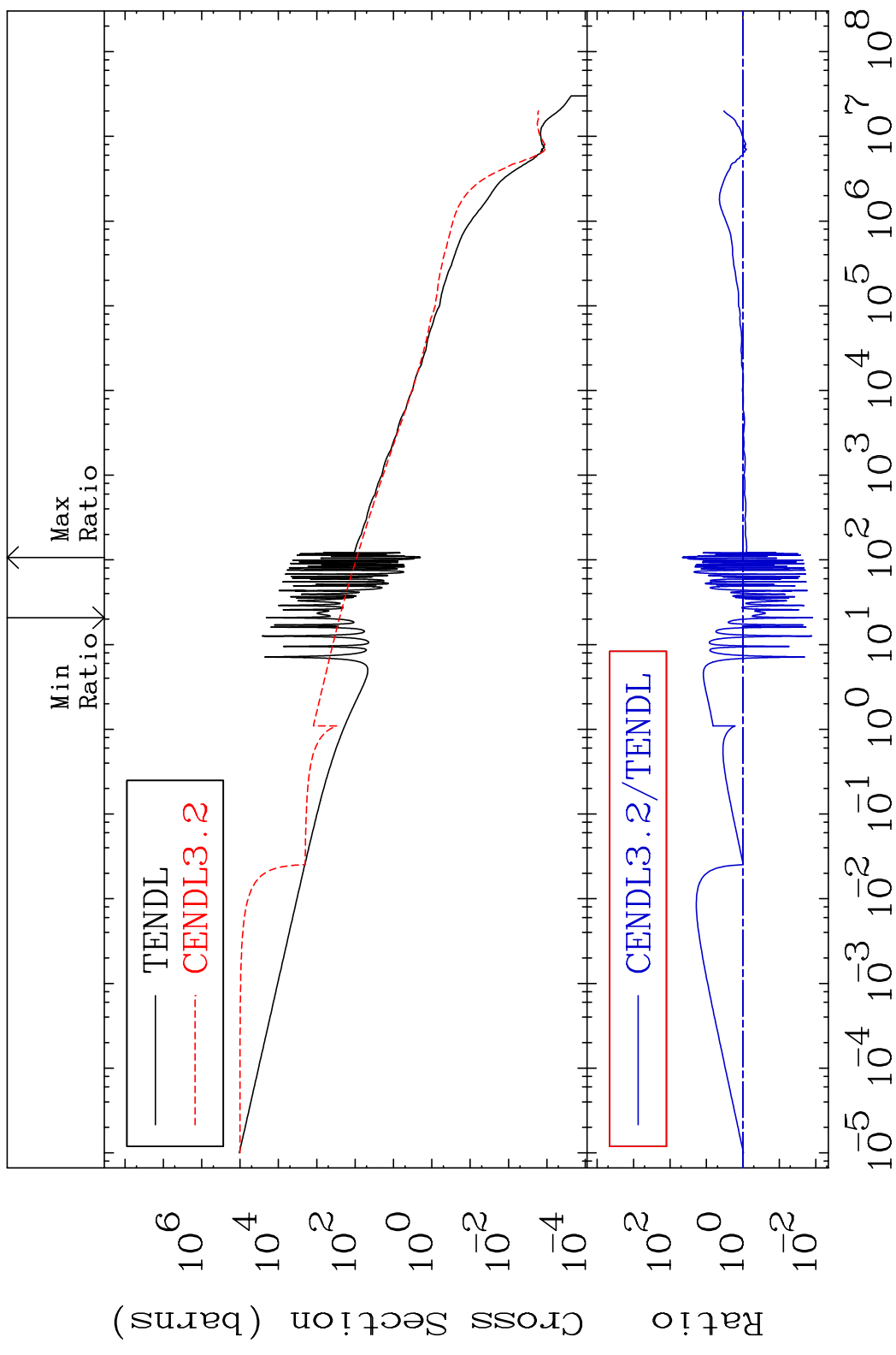
61-Pm-148

MAT 6152

(n,  $\gamma$ )

61-Pm-148

Cross Section -98.77 To 4475. %



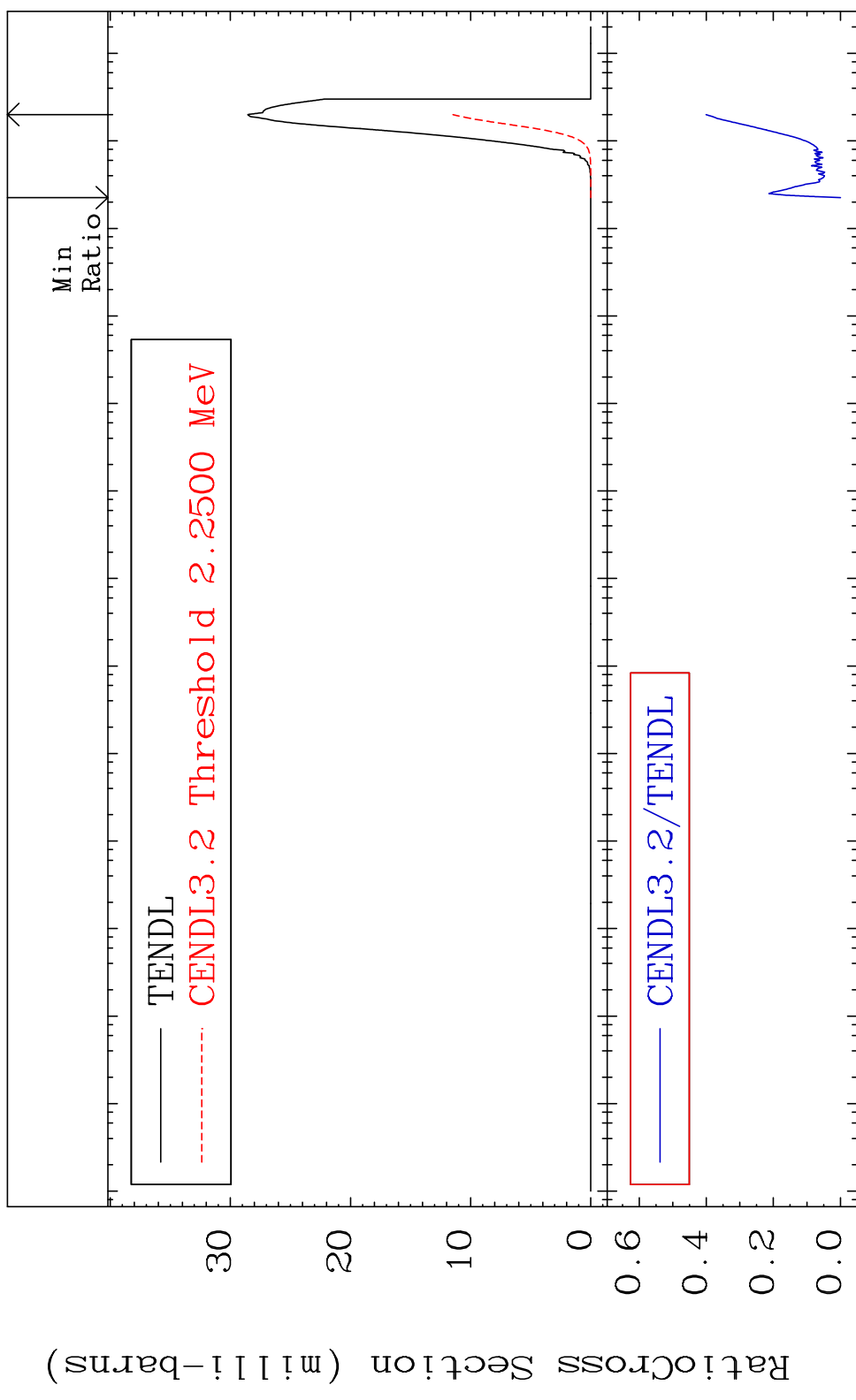
MAT 6152

(n, p)

61-Pm-148

Cross Section

-100.0 To -59.85%

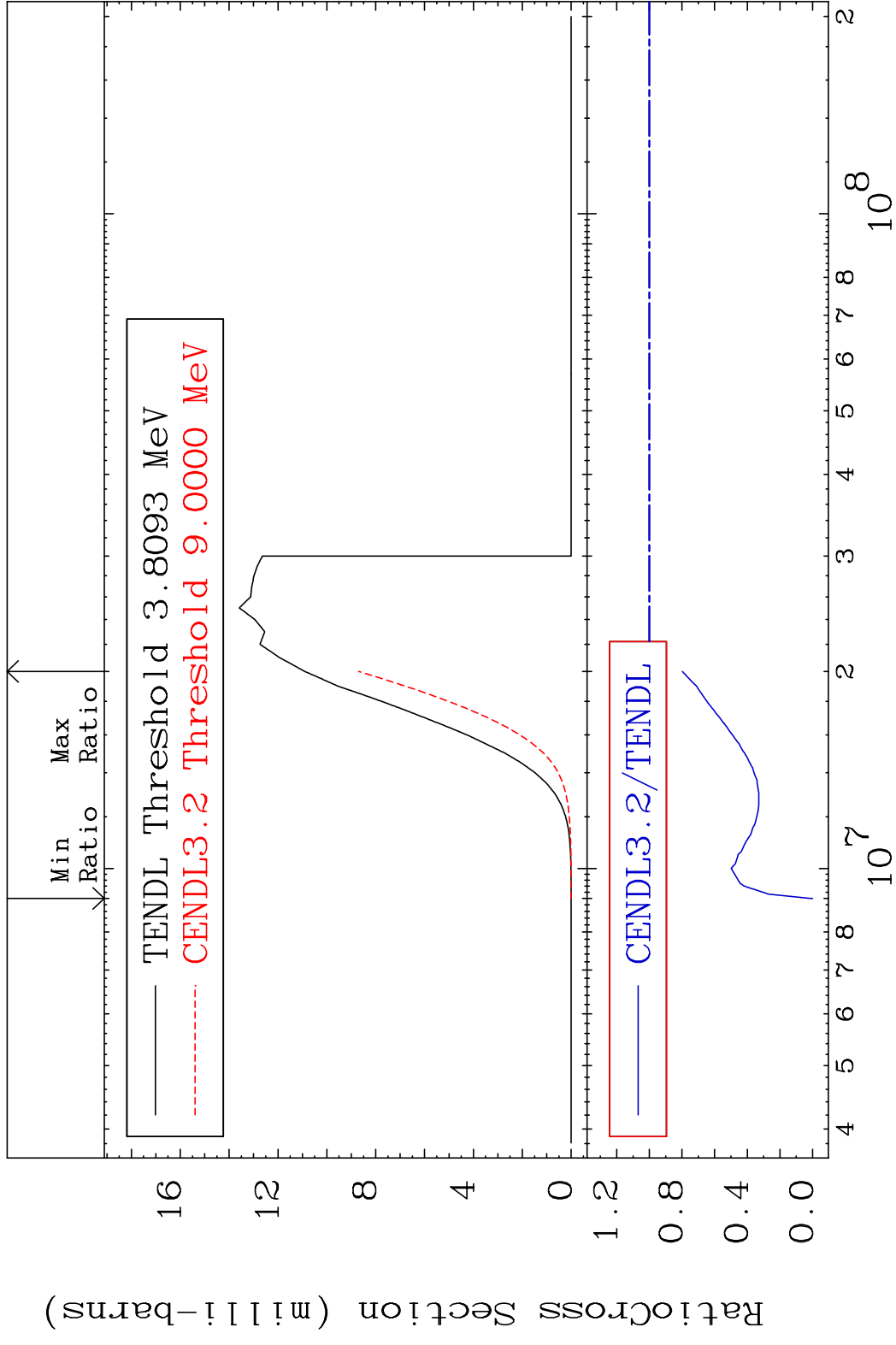


MAT 6152

(n, d)

61-Pm-148

Cross Section -100.0 To -20.23%

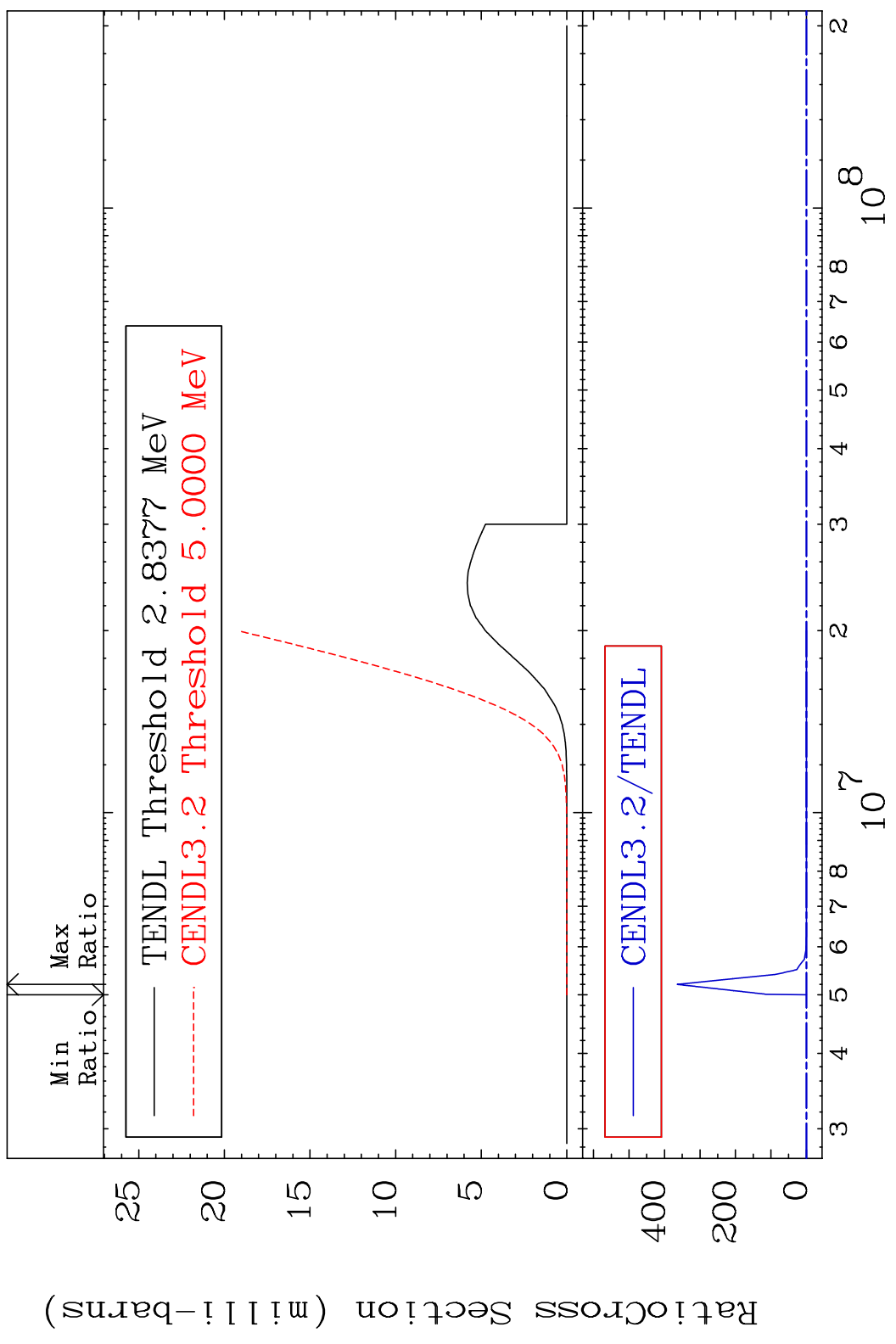


MAT 6152

(n, t)

61-Pm-148

Cross Section -100.0 To 9999. %



14

Incident Energy (eV)

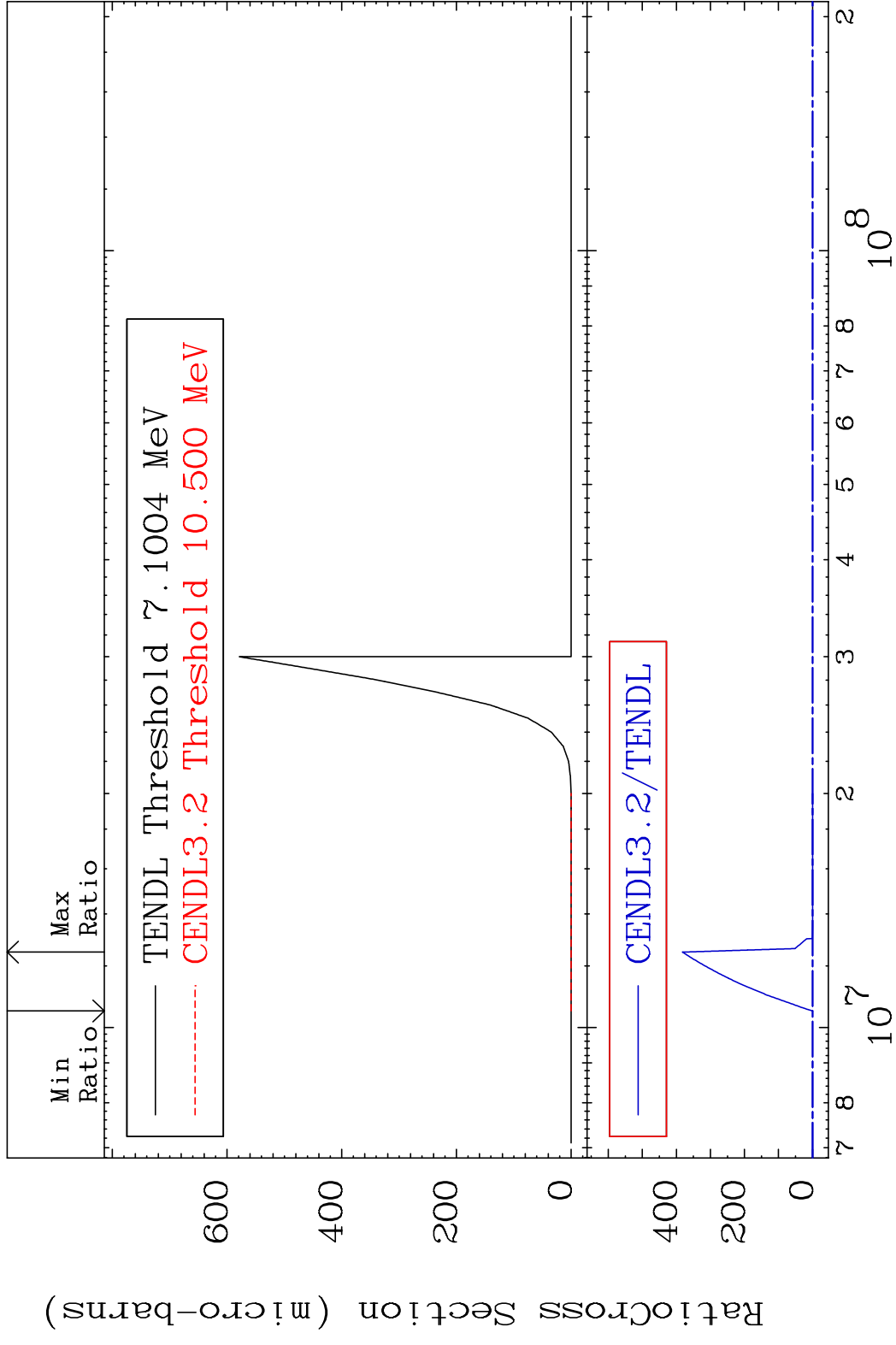
61-Pm-148

MAT 6152

(n, He-3)

61-Pm-148

Cross Section -100.0 To 9999. %



15

Incident Energy (eV)

61-Pm-148

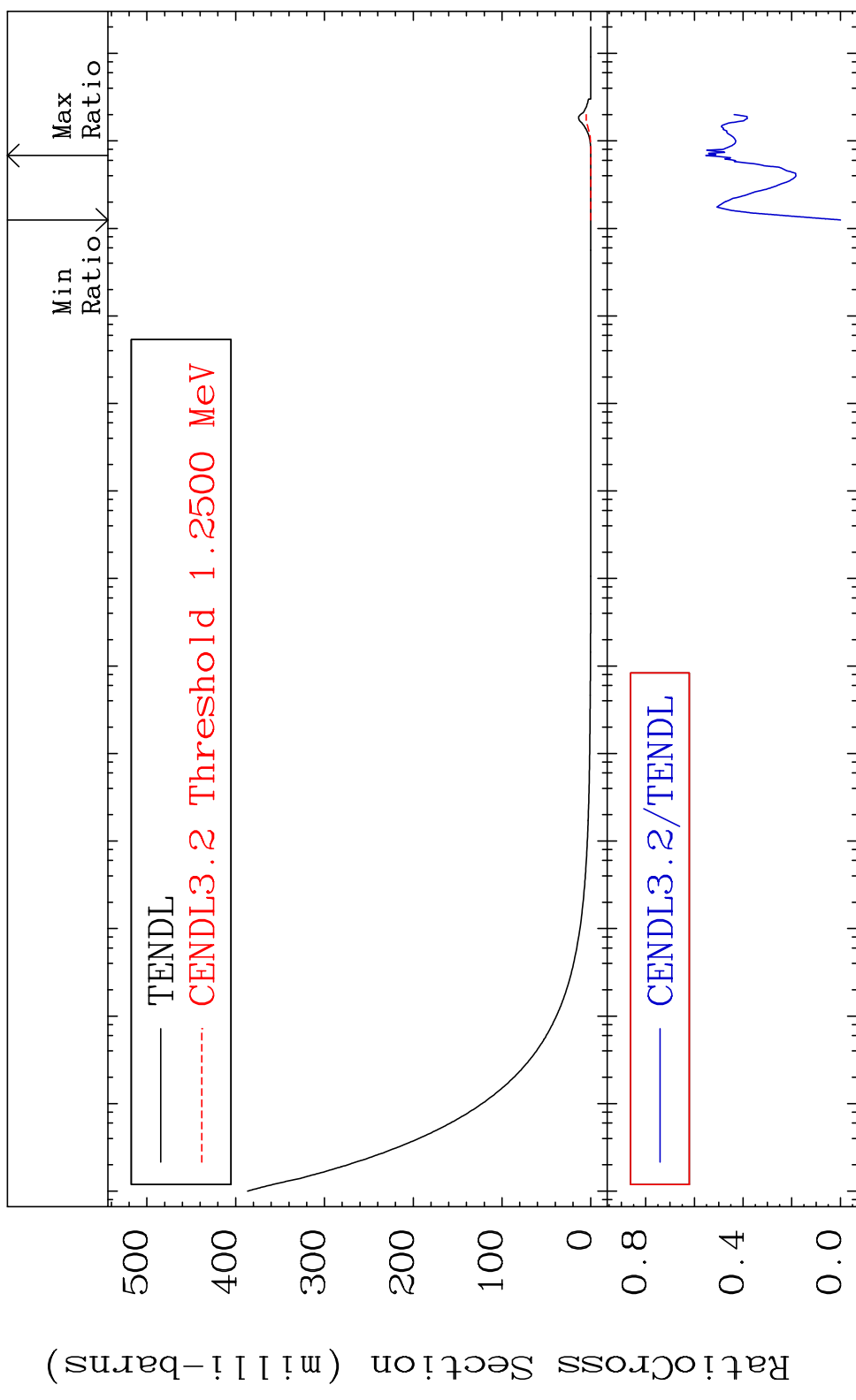


MAT 6152

(n,  $\alpha$ )

61-Pm-148

Cross Section -100.0 To -44.68%

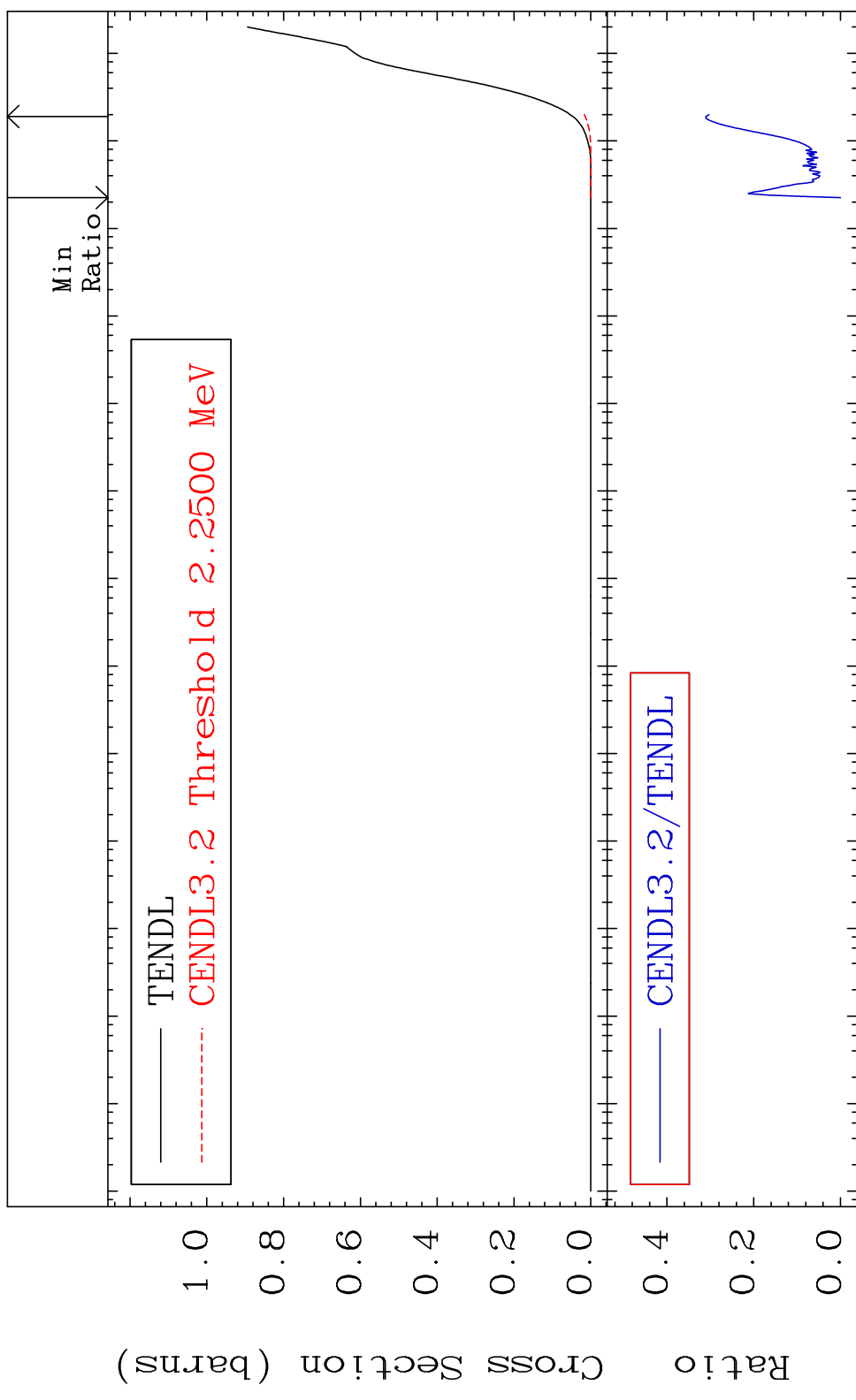


MAT 6152

Hydrogen Production

61-Pm-148

Cross Section -100.0 To -68.94%

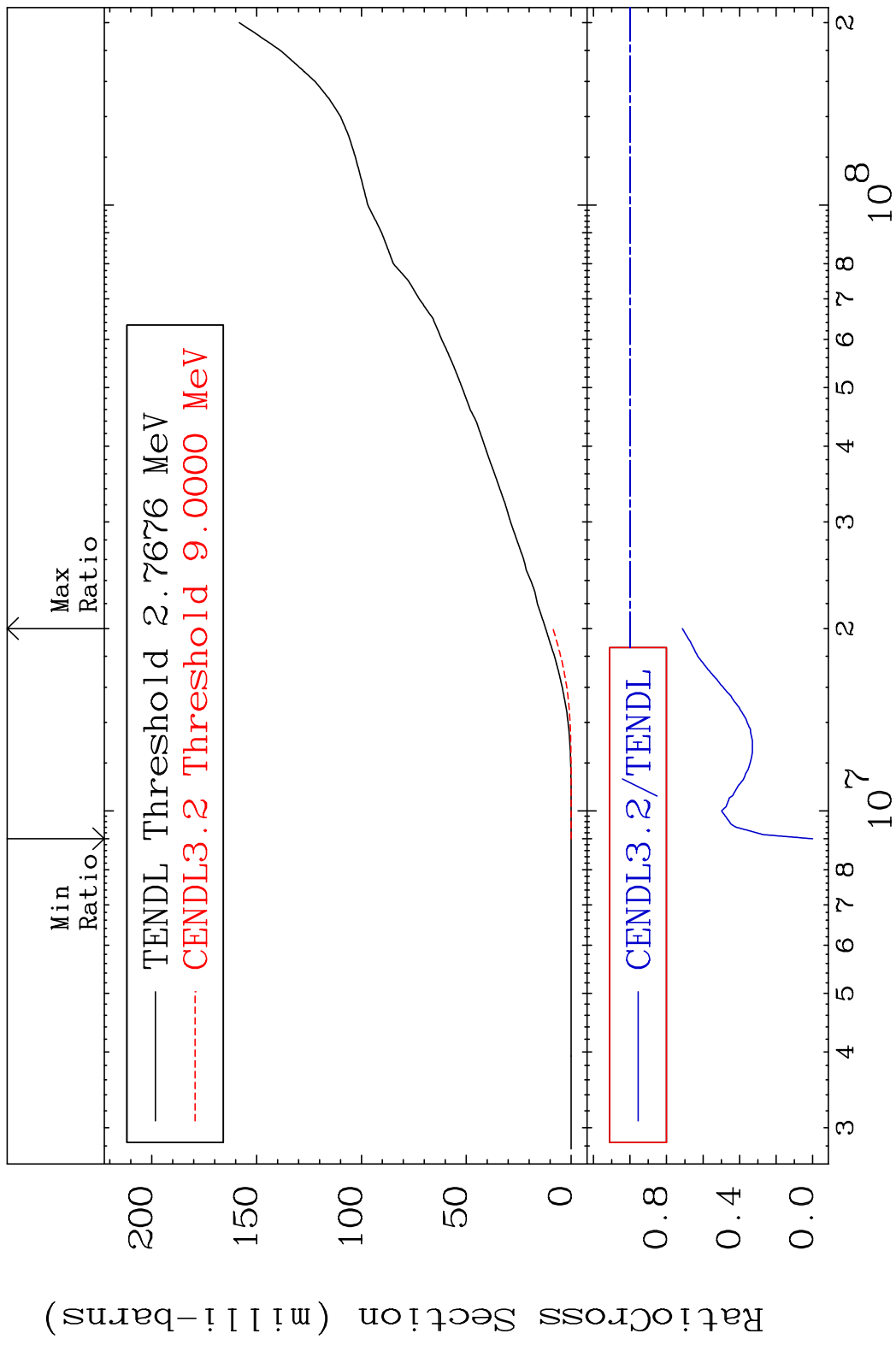


17

Incident Energy (eV)

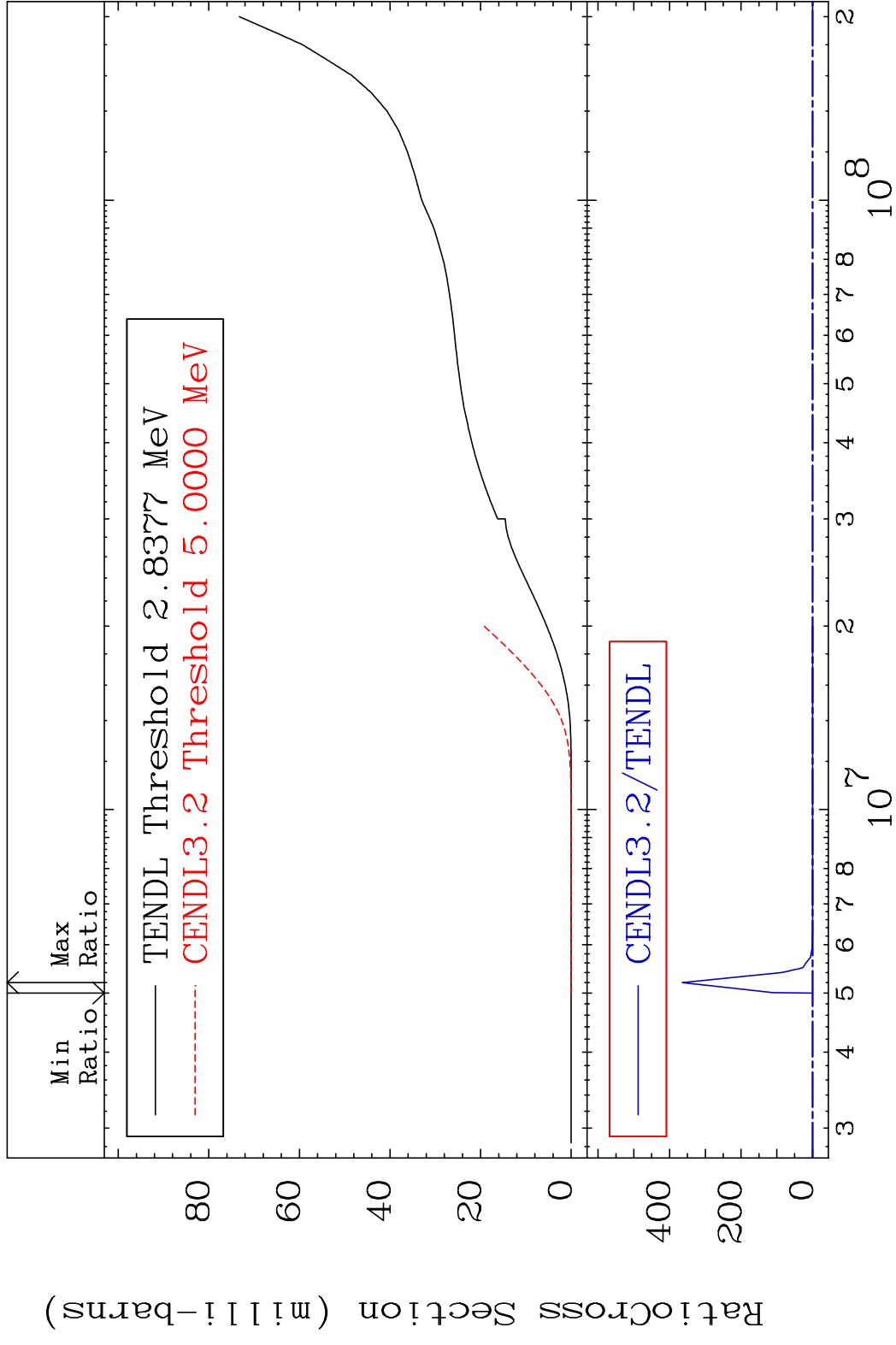
61-Pm-148

MAT 6152 Deuterium Production 61-Pm-148  
 Cross Section -100.0 To -28.66%



MAT 6152

Tritium Production 61-Pm-148  
Cross Section -100.0 To 9999. %



19

Incident Energy (eV)

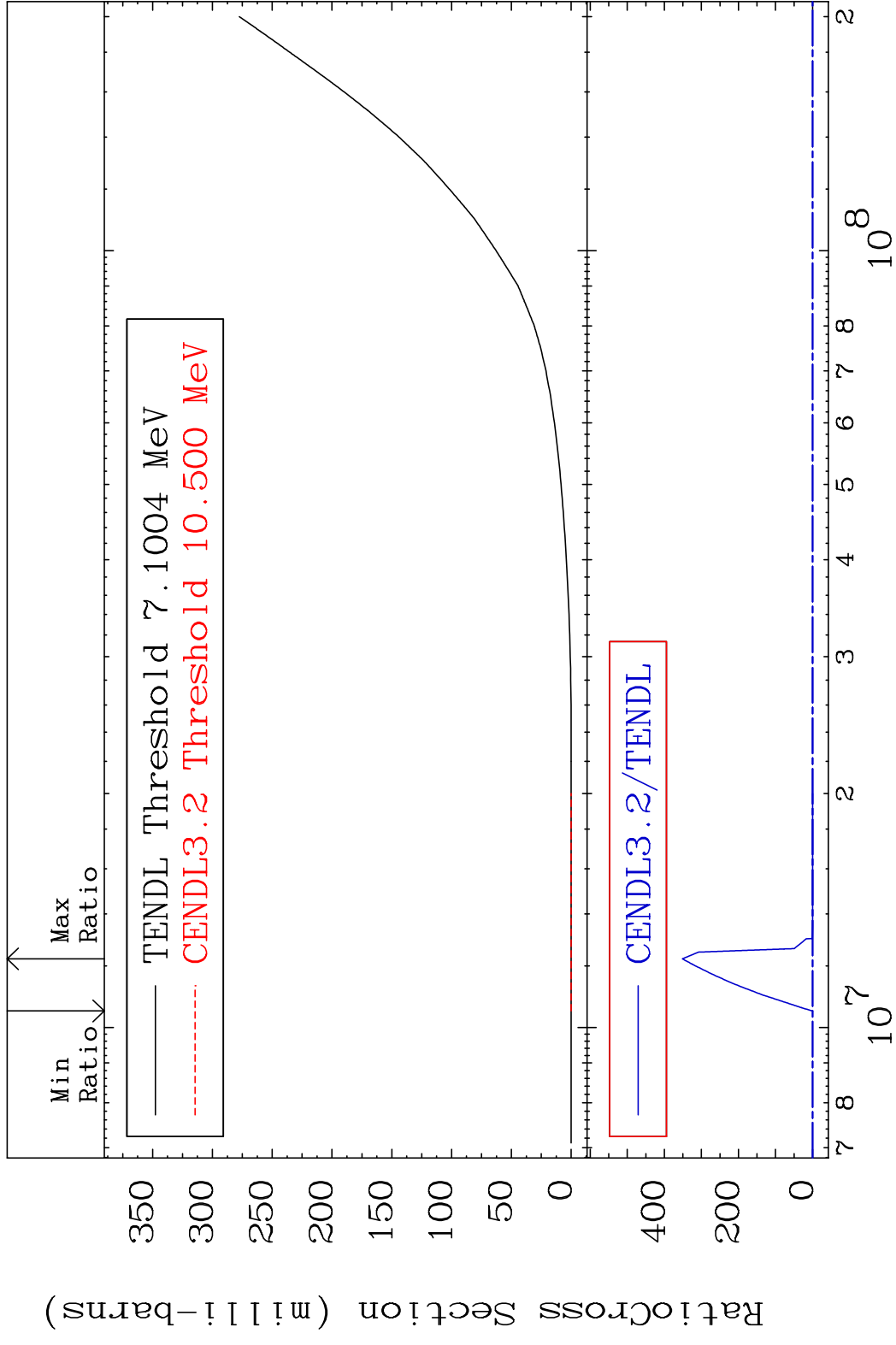
61-Pm-148

MAT 6152

He-3 Production

61-Pm-148

Cross Section -100.0 To 9999. %



20

Incident Energy (eV)

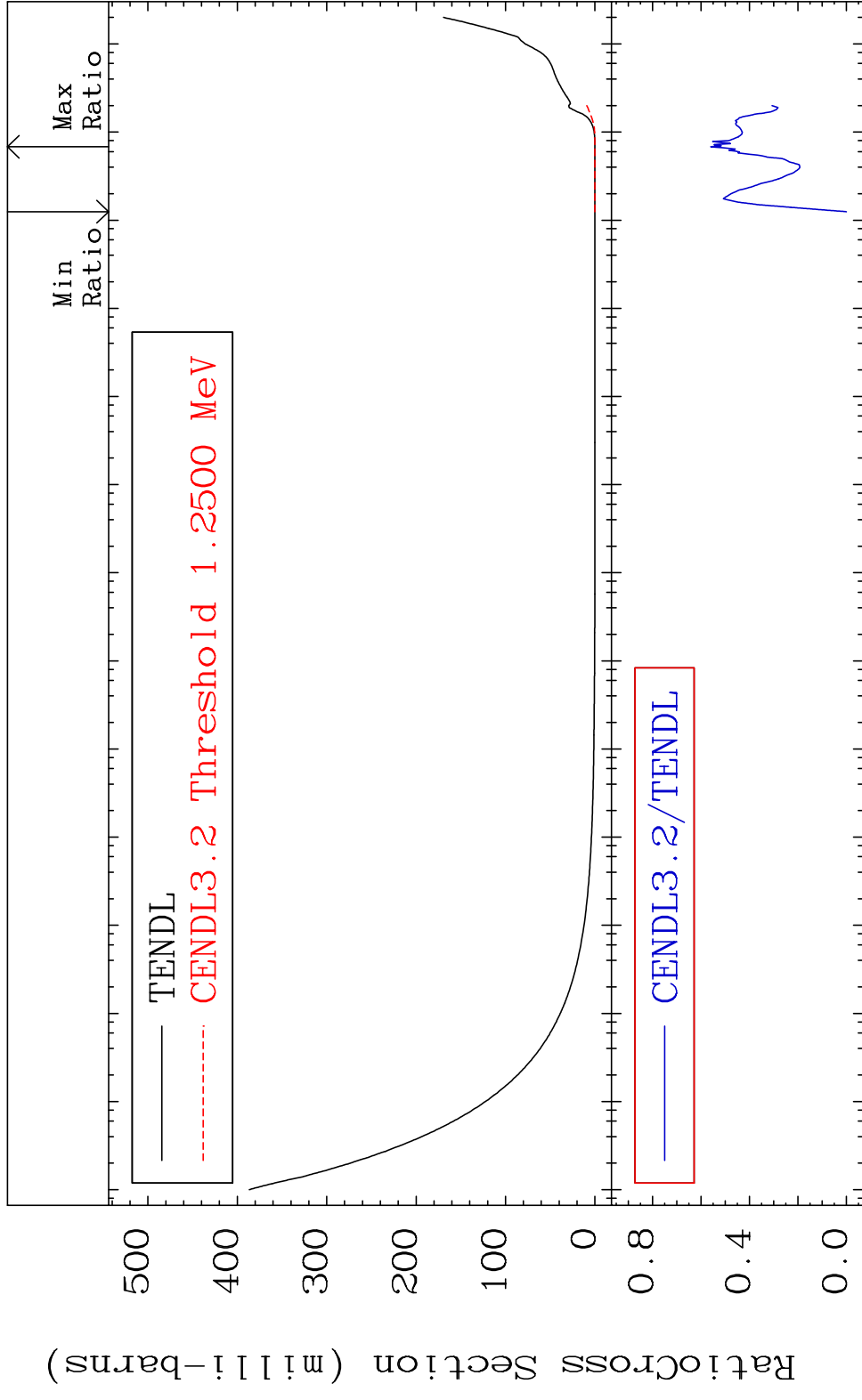
61-Pm-148

MAT 6152

He-4 Production

61-Pm-148

Cross Section -100.0 To -44.03%

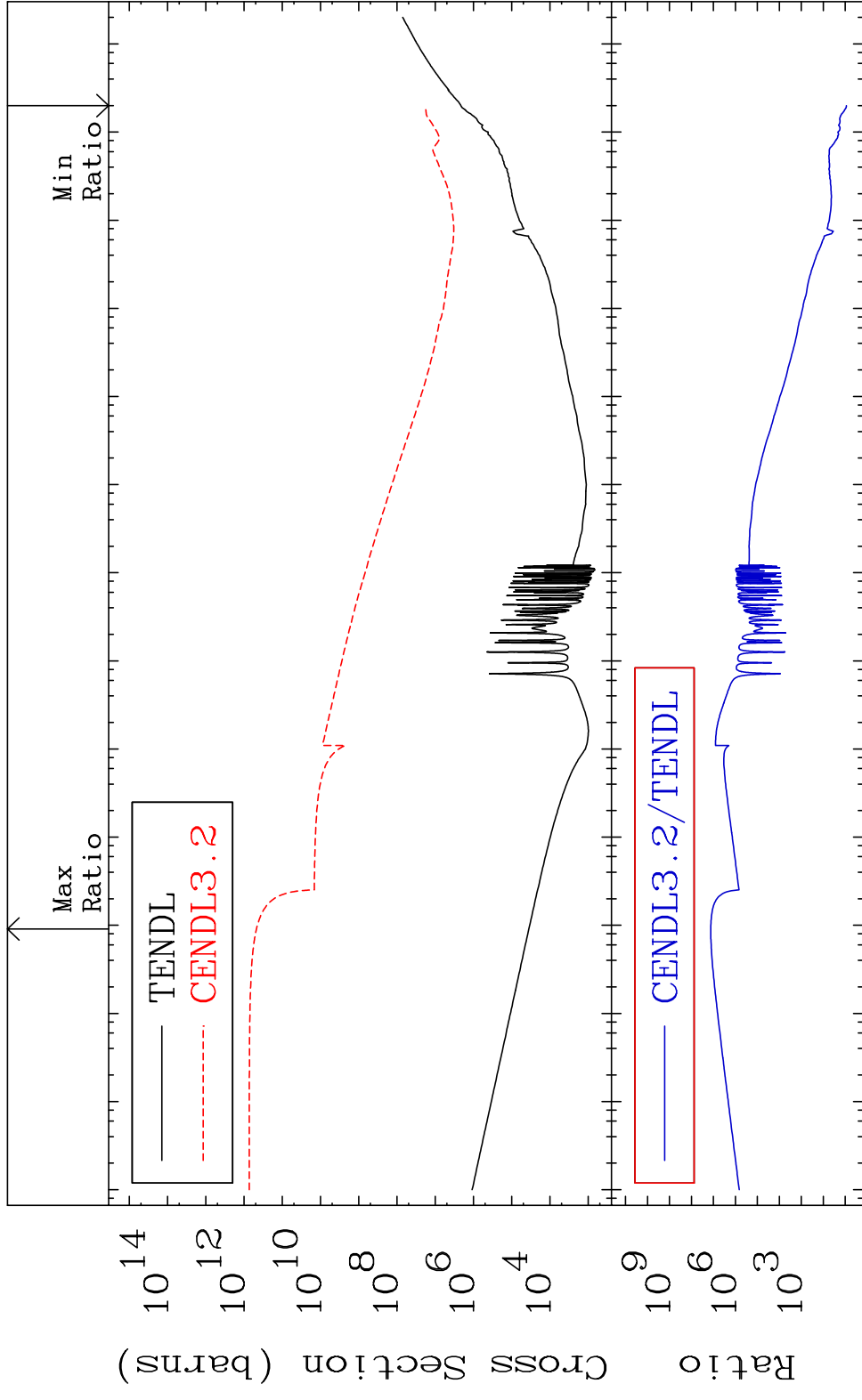


21

Incident Energy (eV)

61-Pm-148

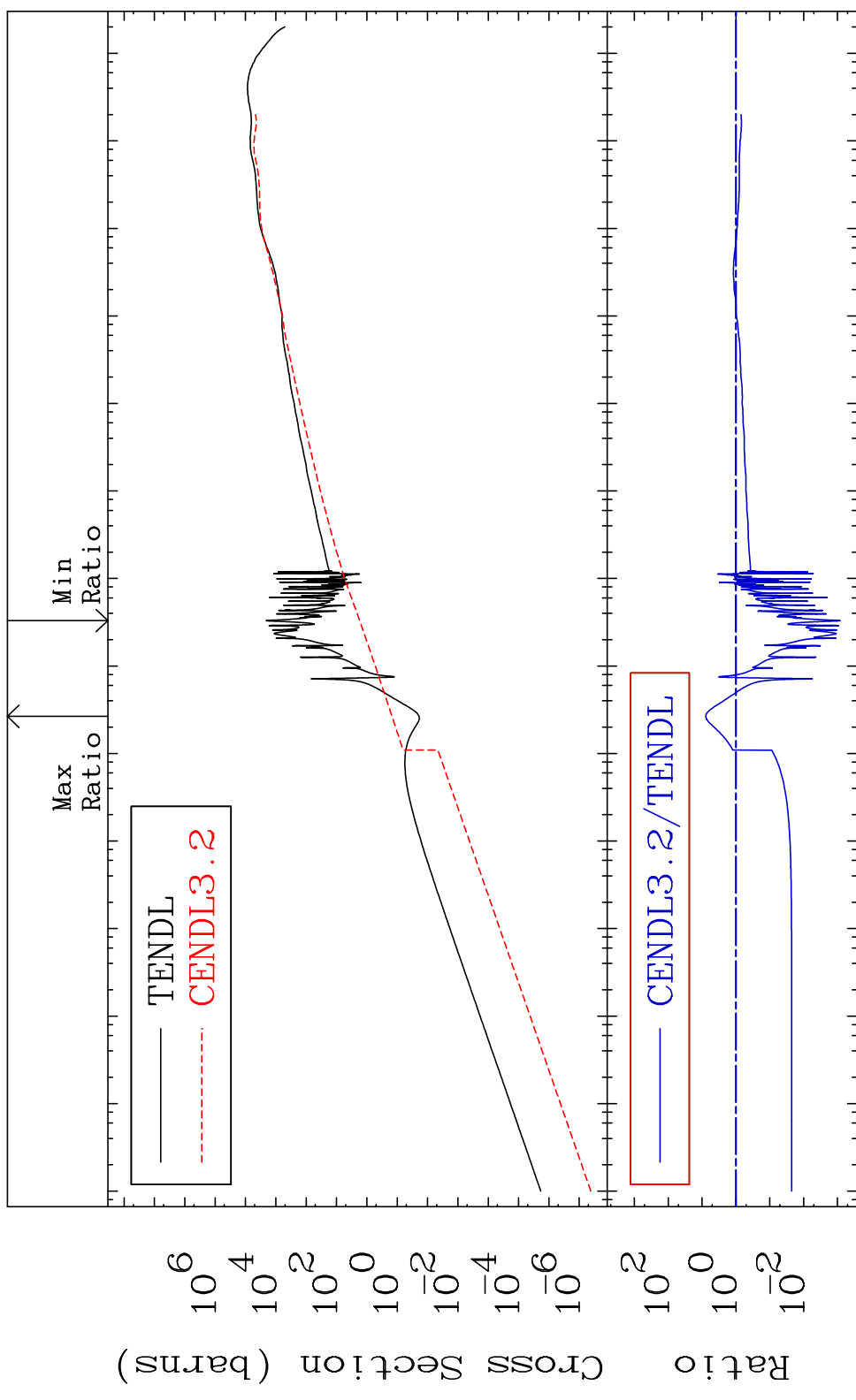
MAT 6152 Kerma total (eV-barns) 61-Pm-148  
 Cross Section 796.7 To 9999. %



MAT 6152

Kerma elastic Cross Section -99.92 To 676.8 %

61-Pm-148



Ratio  
Cross Section (barns)  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
10<sup>-4</sup>  
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>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>

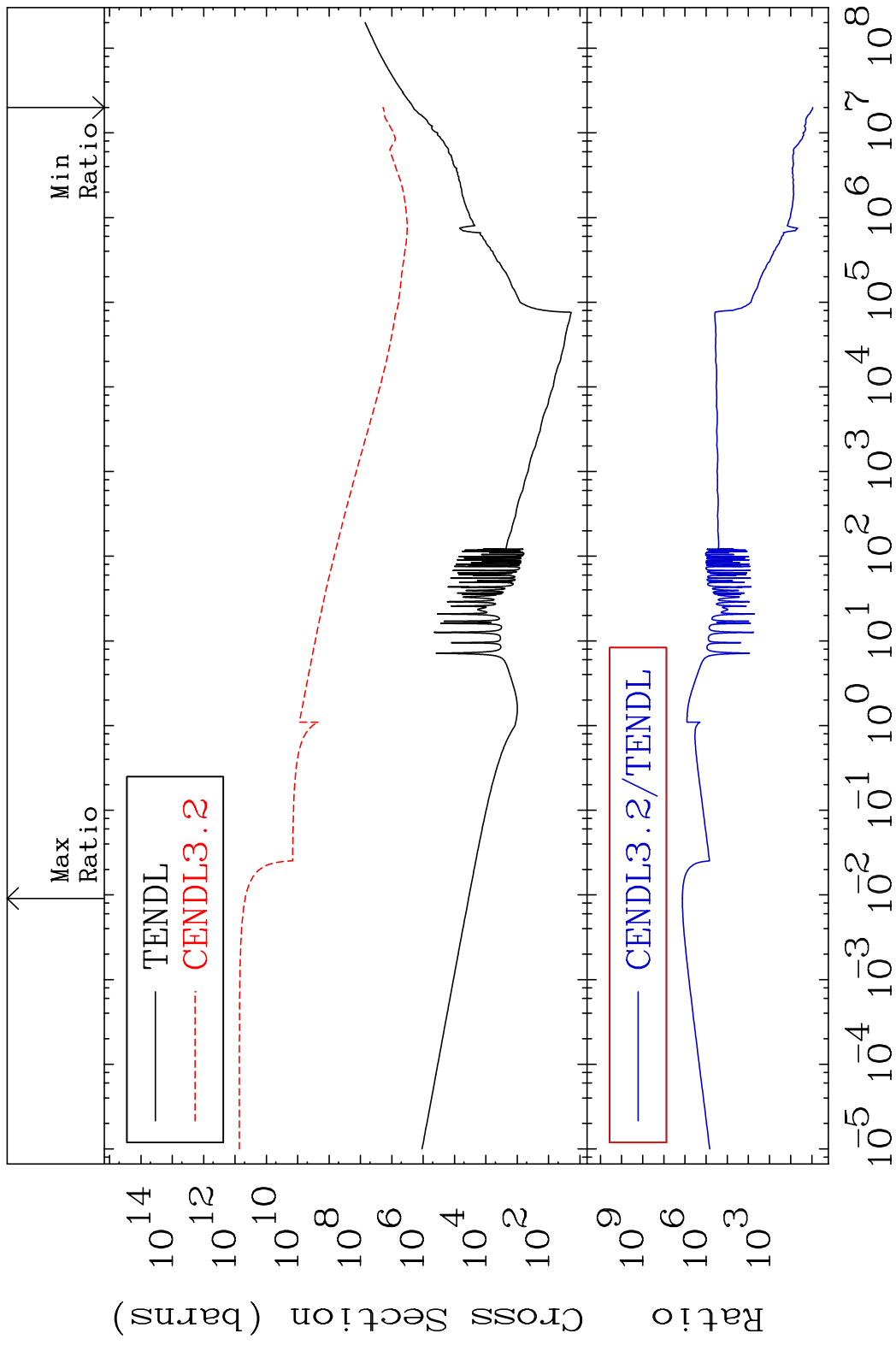
23

Incident Energy (eV)

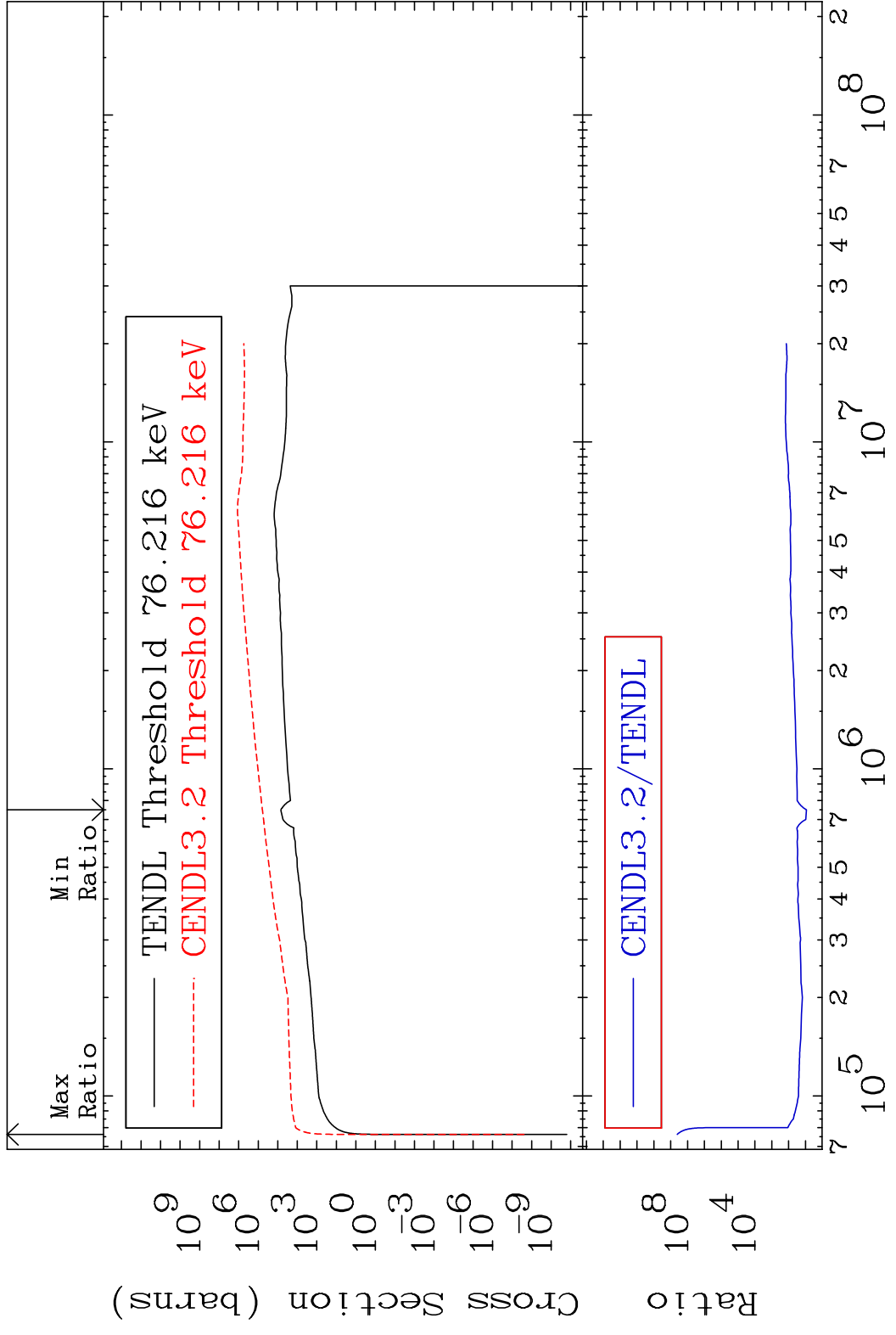
61-Pm-148



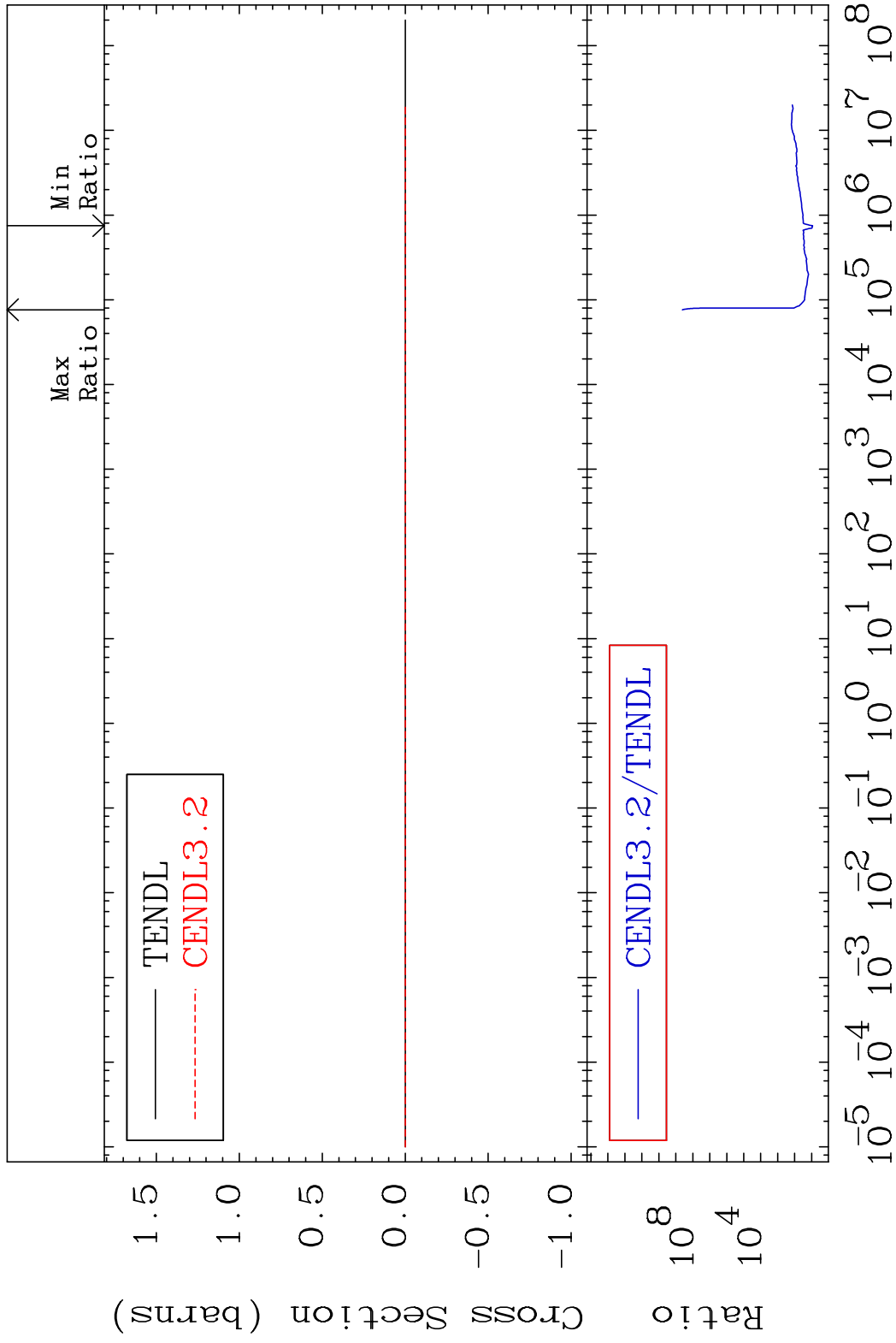
MAT 6152 Kerma non-elastic (all but mt2) 61-Pm-148  
 Cross Section 823.1 To 9999. %



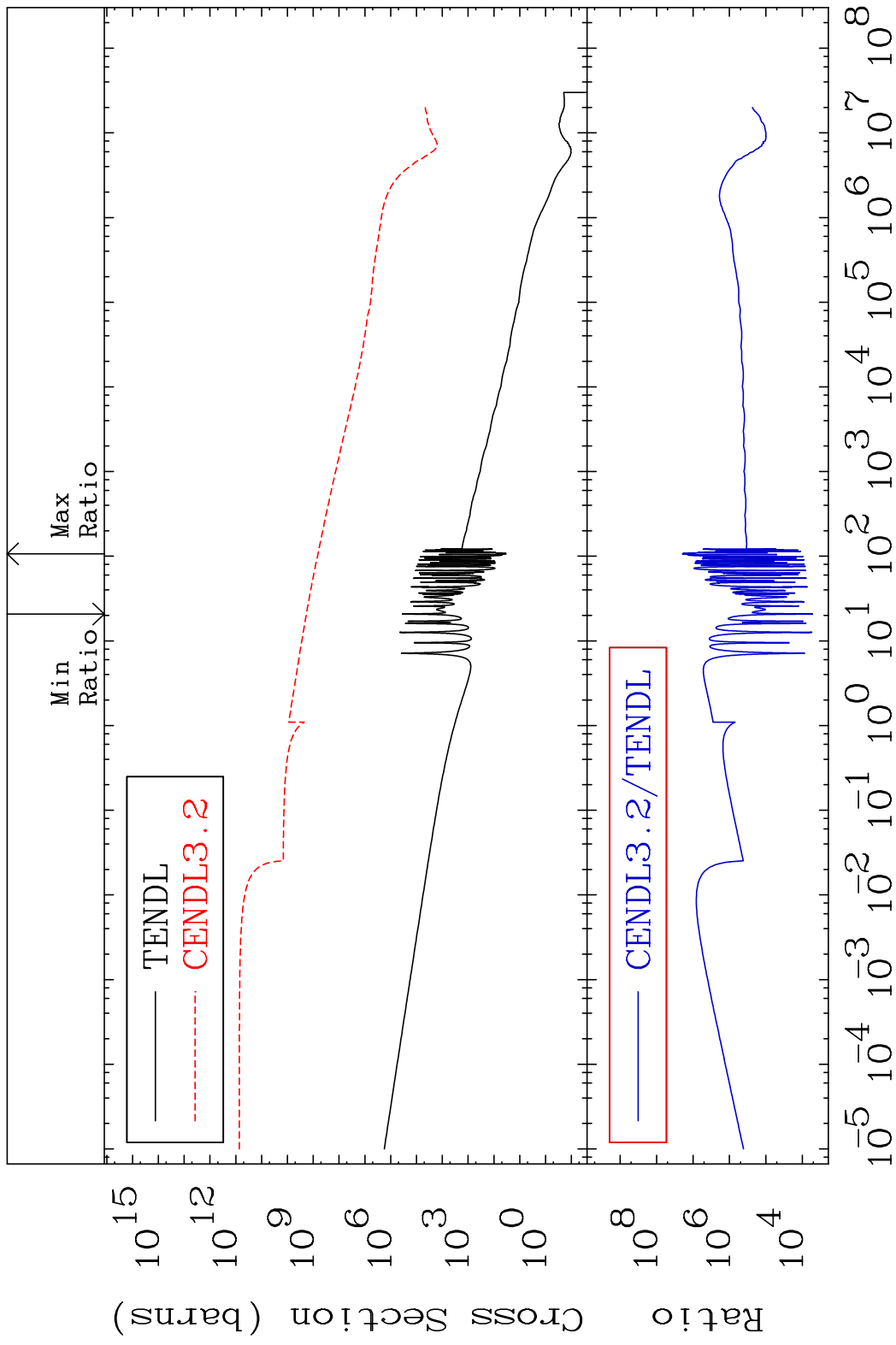
MAT 6152 Kerma inelastic (mt51-91) 61-Pm-148  
 Cross Section 785.4 To 9999. %



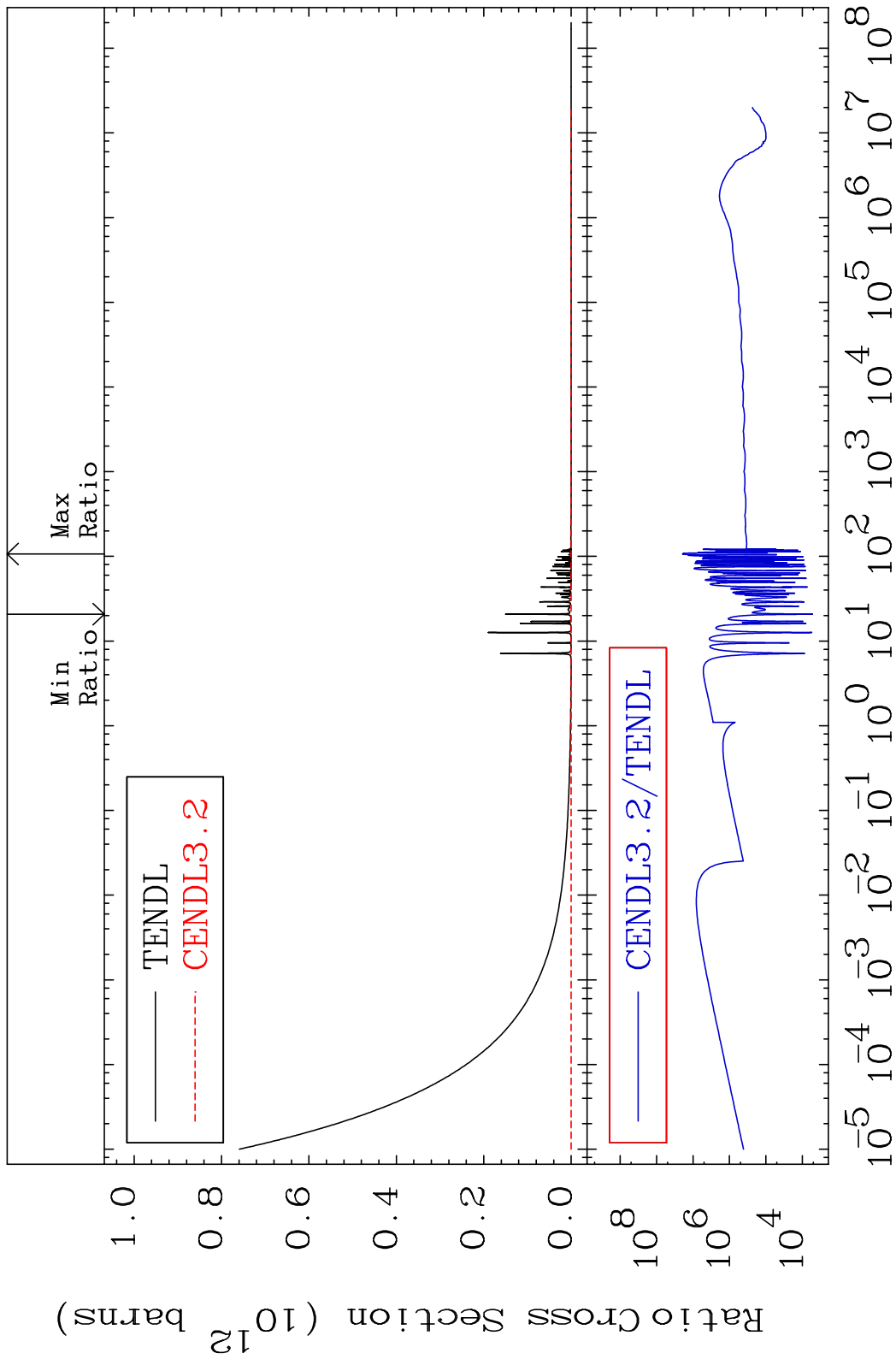
MAT 6152 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-148  
 Cross Section 785.4 To 9999. %



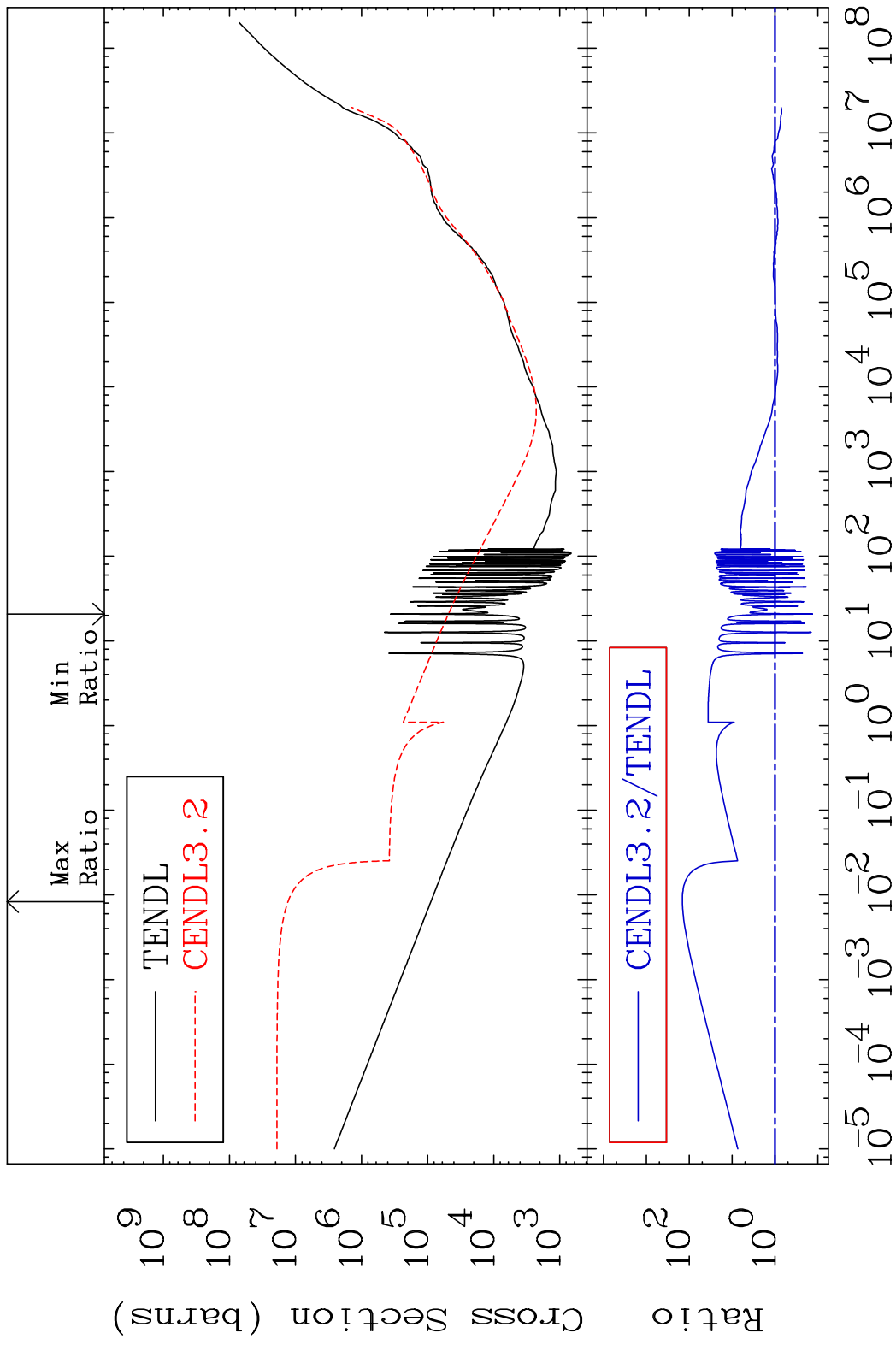
MAT 6152 Kerma capture (mt102) 61-Pm-148  
 Cross Section 9999. To 9999. %



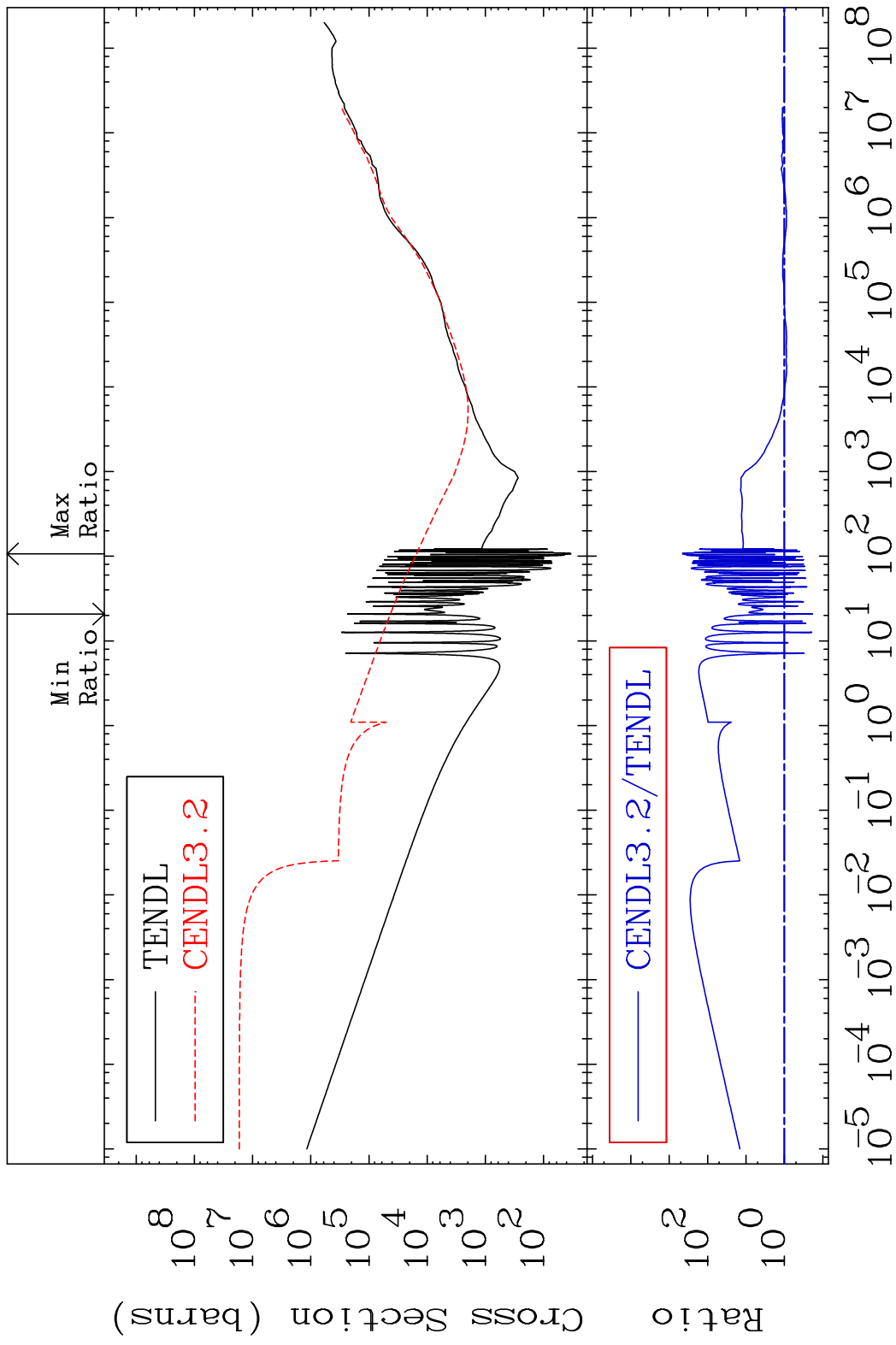
MAT 6152 Total photon (eV-barns) 61-Pm-148  
 Cross Section 9999. To 9999. %



MAT 6152 Total kinematic kerma (high limit) 61-Pm-148  
 Cross Section -86.64 To 9999. %



MAT 6152      Dpa total (eV-barns)      61-Pm-148  
 Cross Section      -81.56 To 9999. %

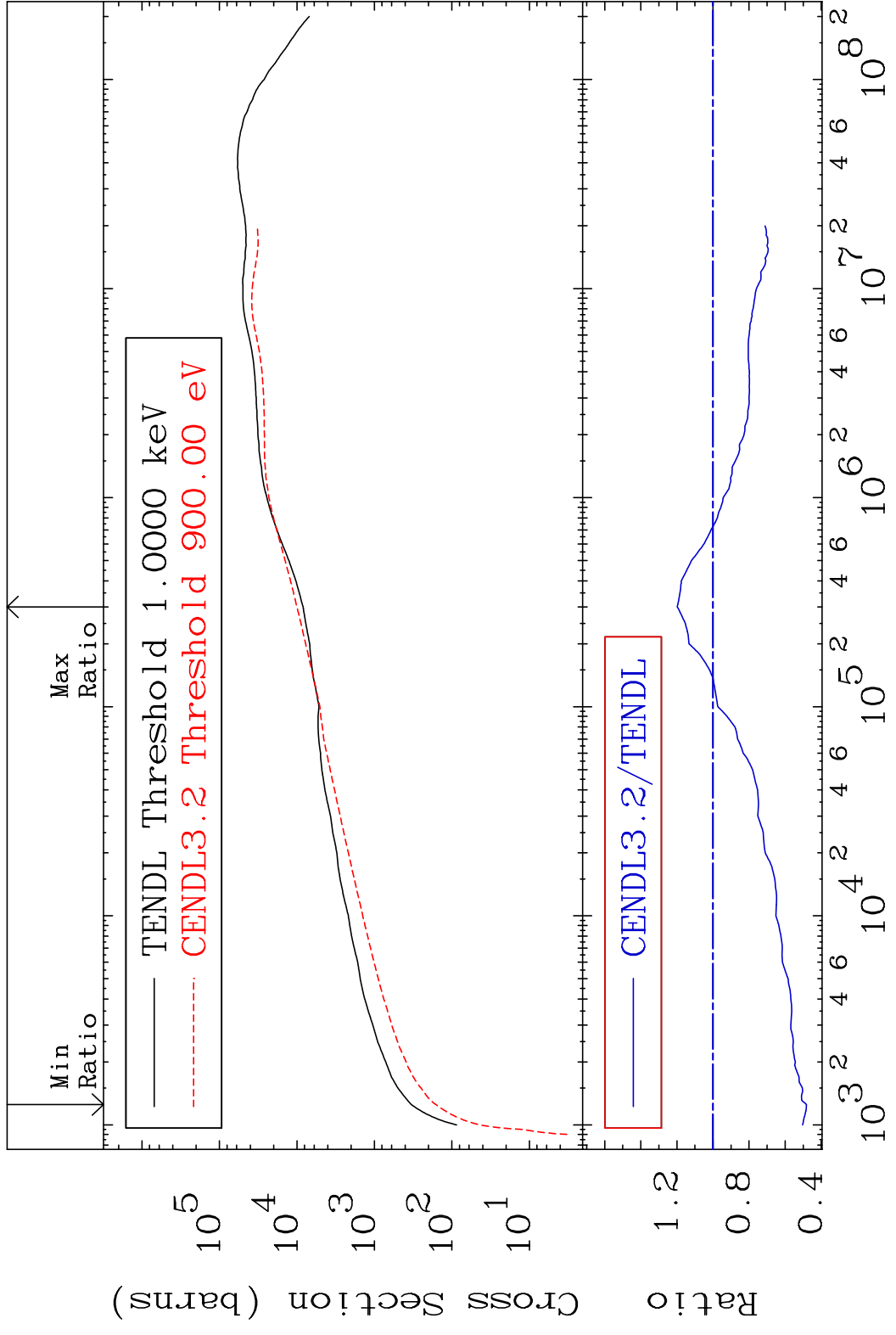


MAT 6152

Dpa elastic (mt2)

61-Pm-148

Cross Section -51.77 To 19.83 %



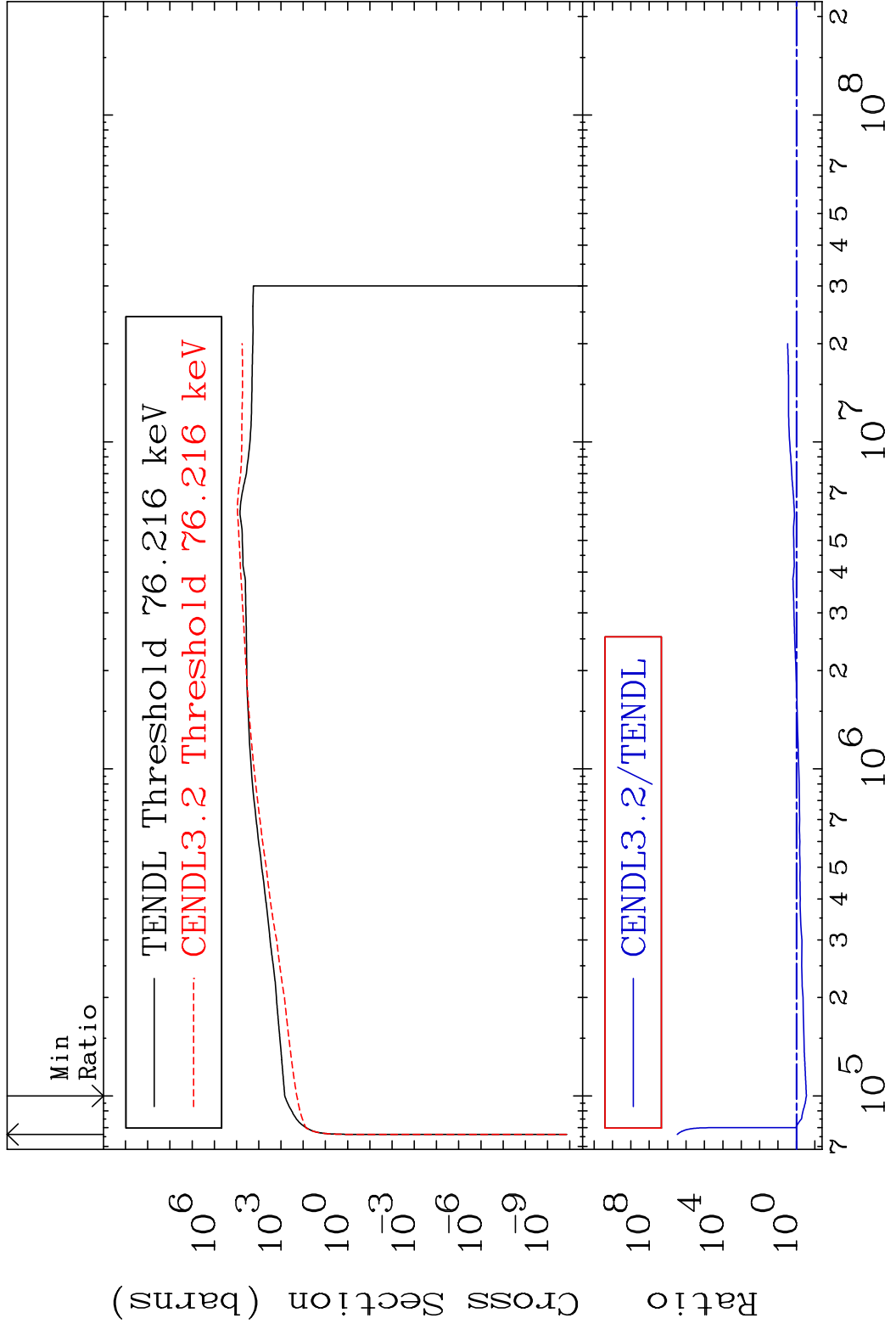
31

Incident Energy (eV)

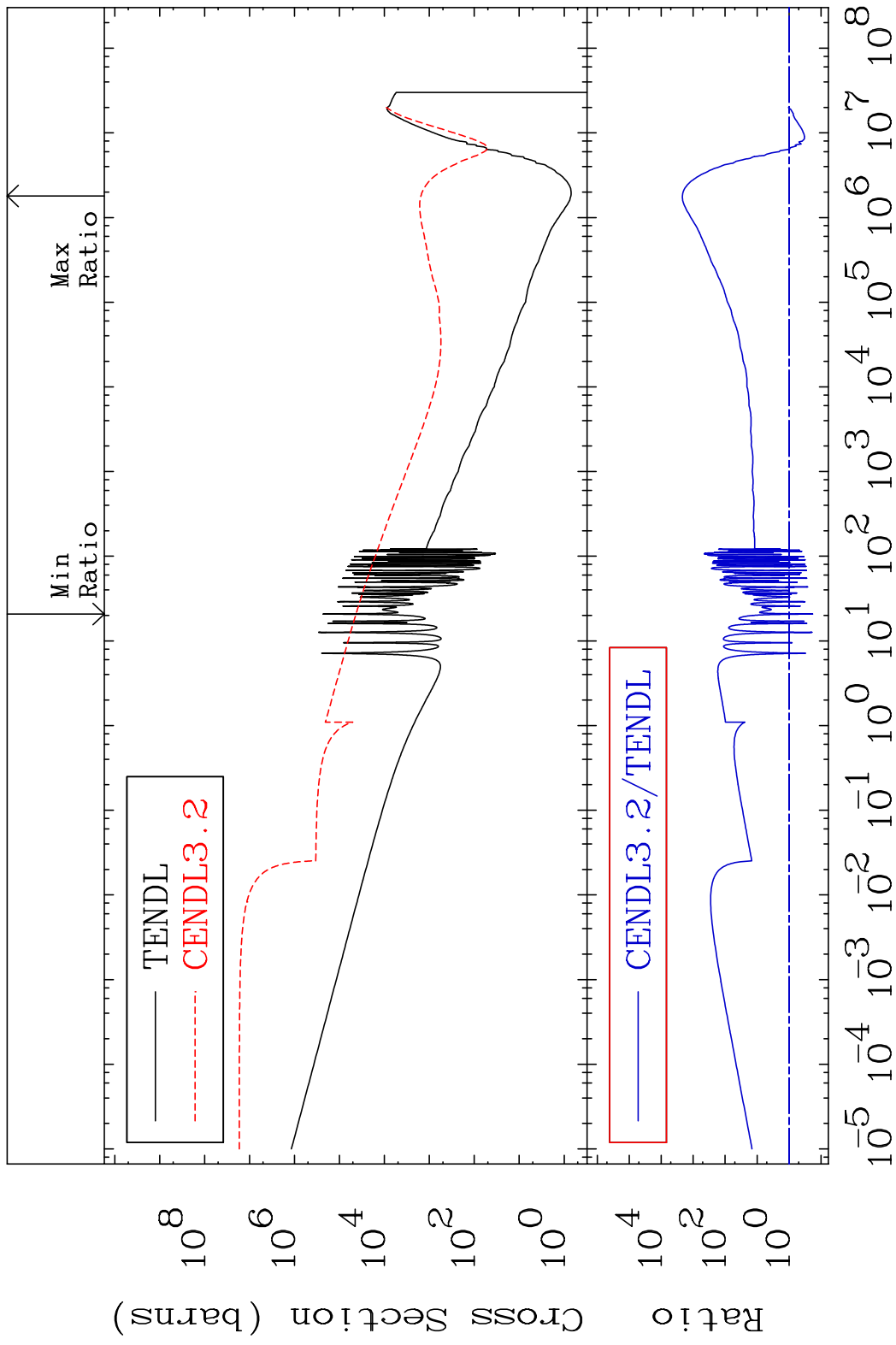
61-Pm-148



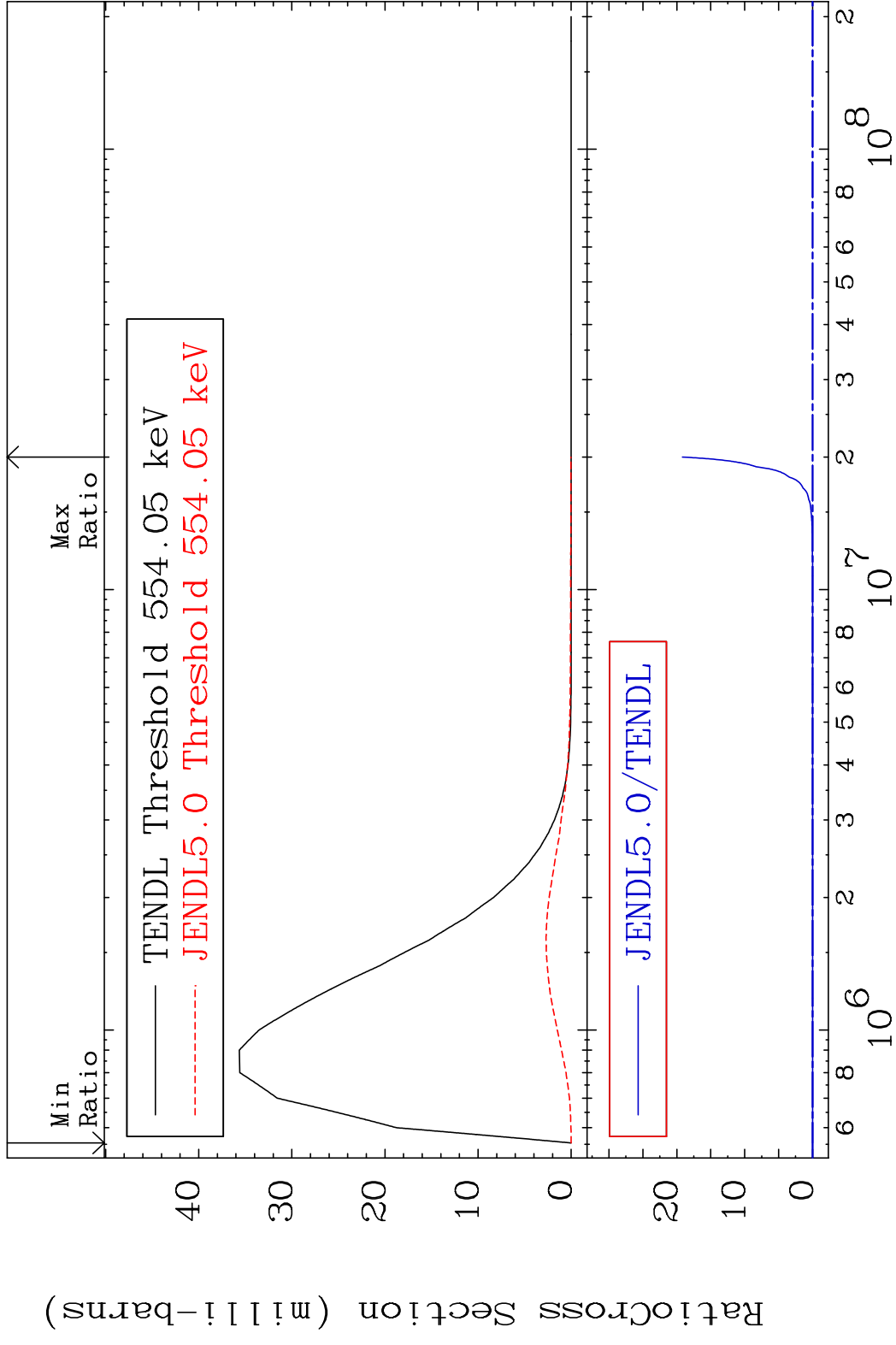
MAT 6152 Dpa inelastic (mt51-91) 61-Pm-148  
 Cross Section -71.32 To 9999. %



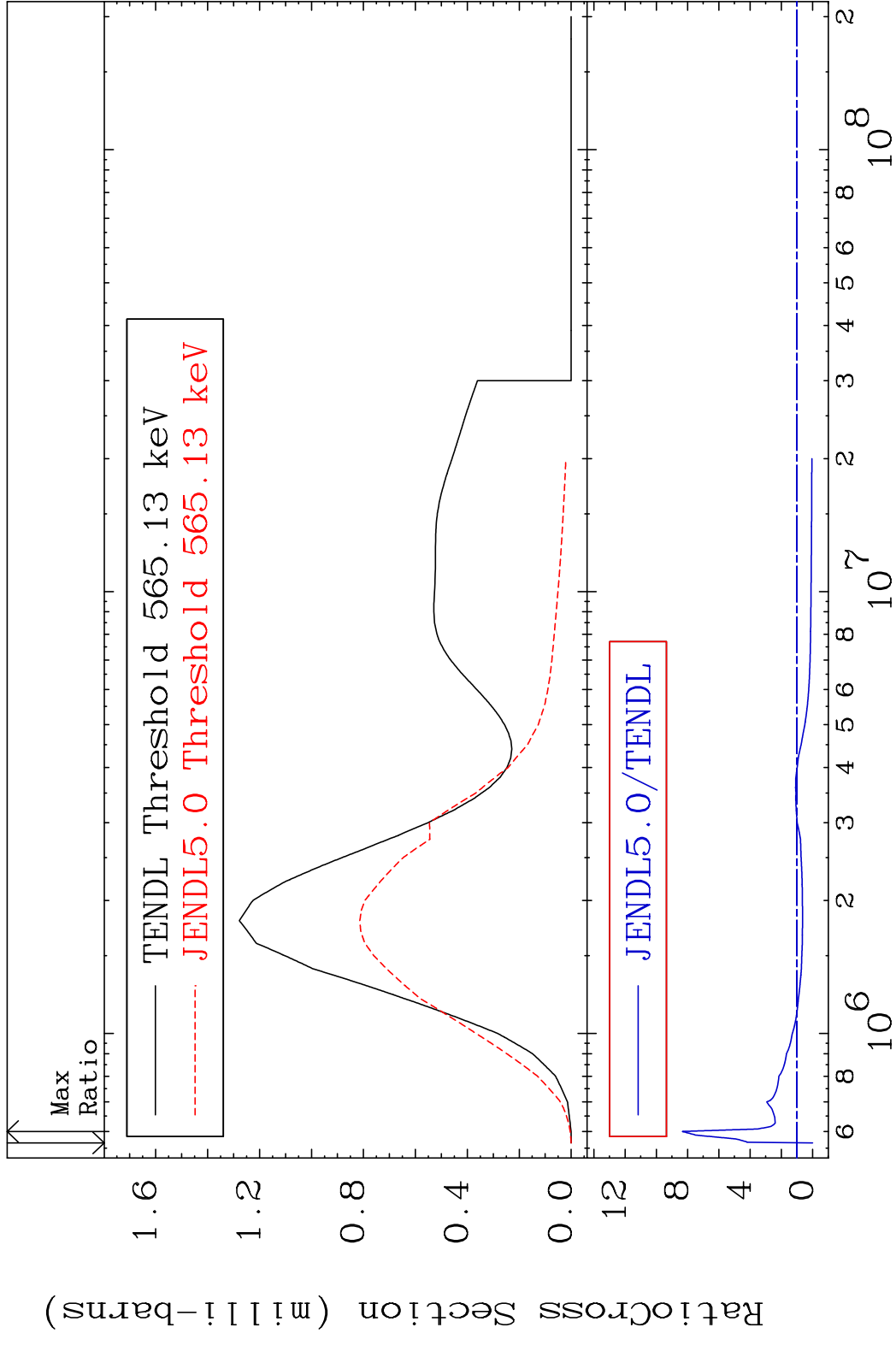
MAT 6152 Dpa disappearance (mt102 -120) 61-Pm-148  
 Cross Section -81.56 To 9999. %



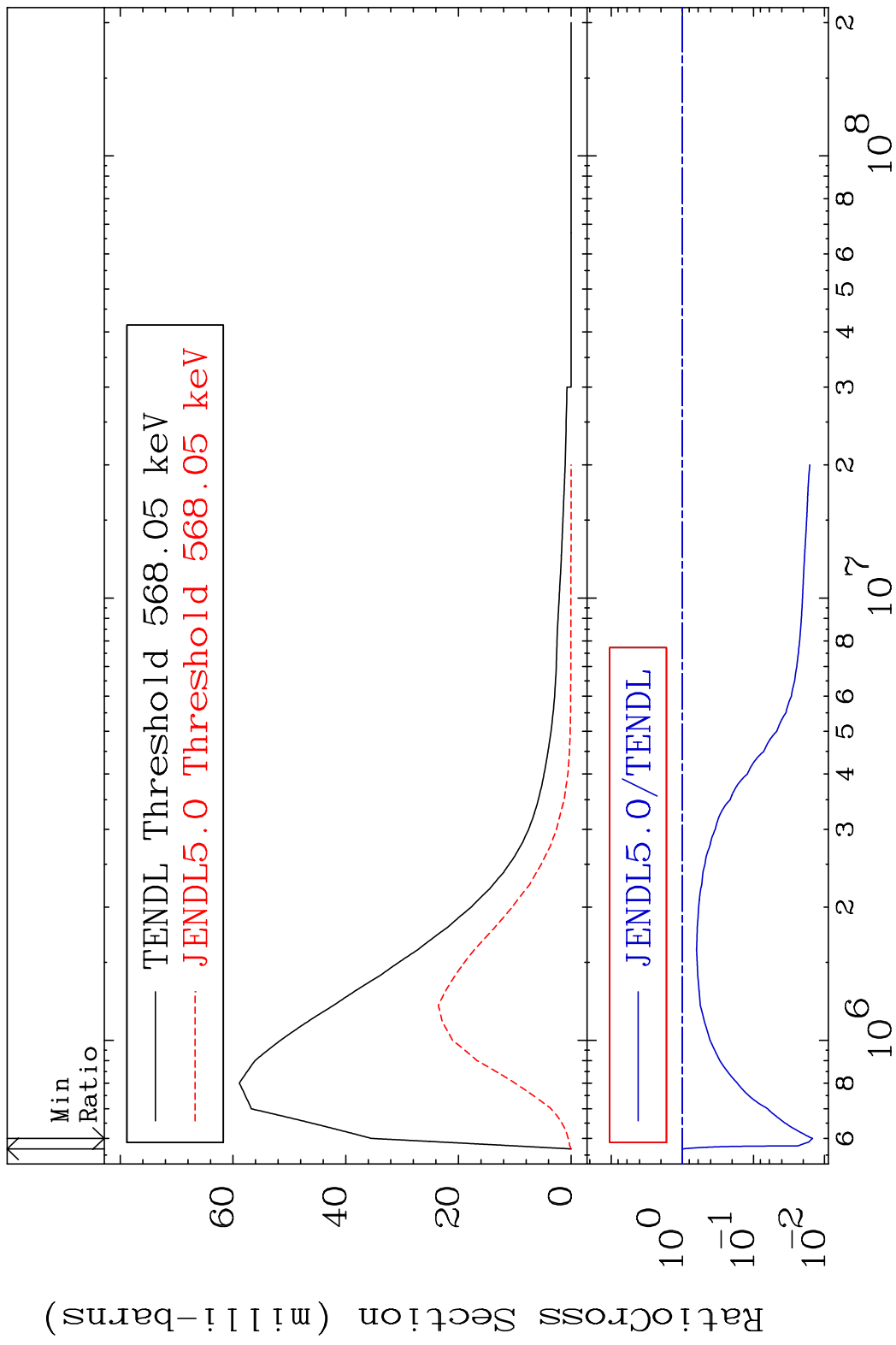
MAT 6152 MT= 73 (n, n') Level 61-Pm-148  
 Cross Section -100.0 To 9999. %



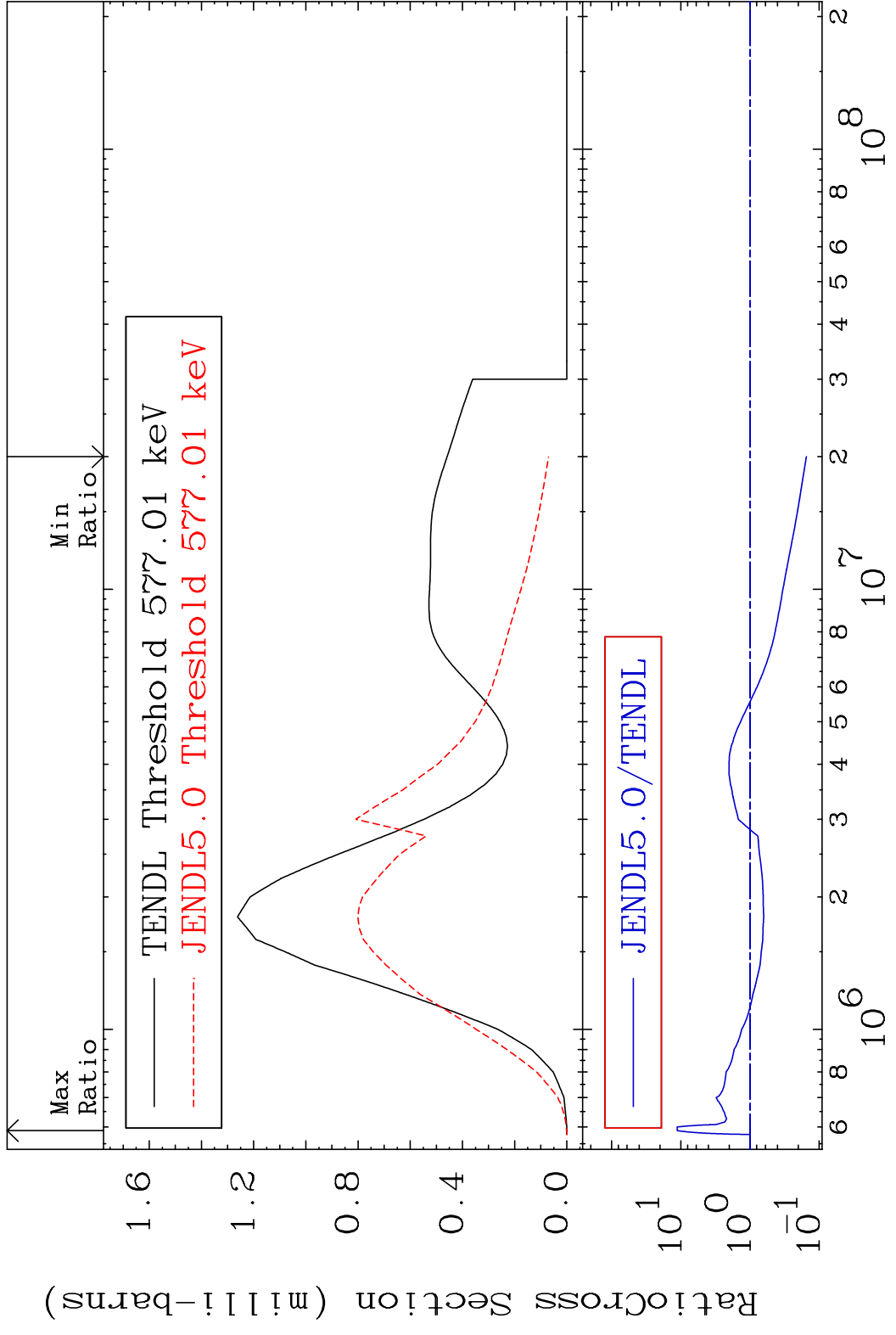
MAT 6152 MT= 74 (n, n') Level 61-Pm-148  
 Cross Section -100.0 To 733.5 %



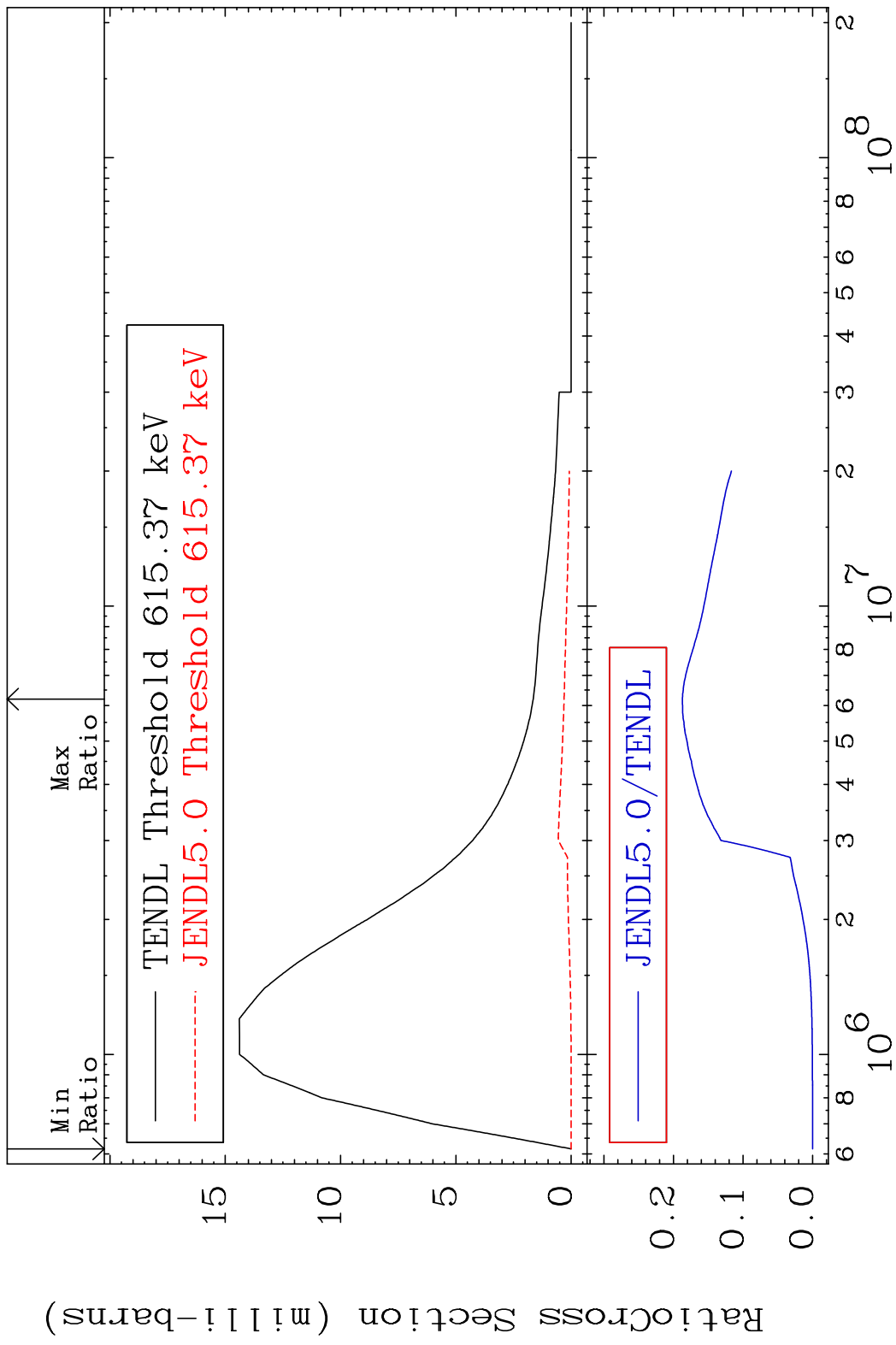
MAT 6152 MT= 75 (n,n') Level 61-Pm-148  
 Cross Section -98.53 To 0.000 %



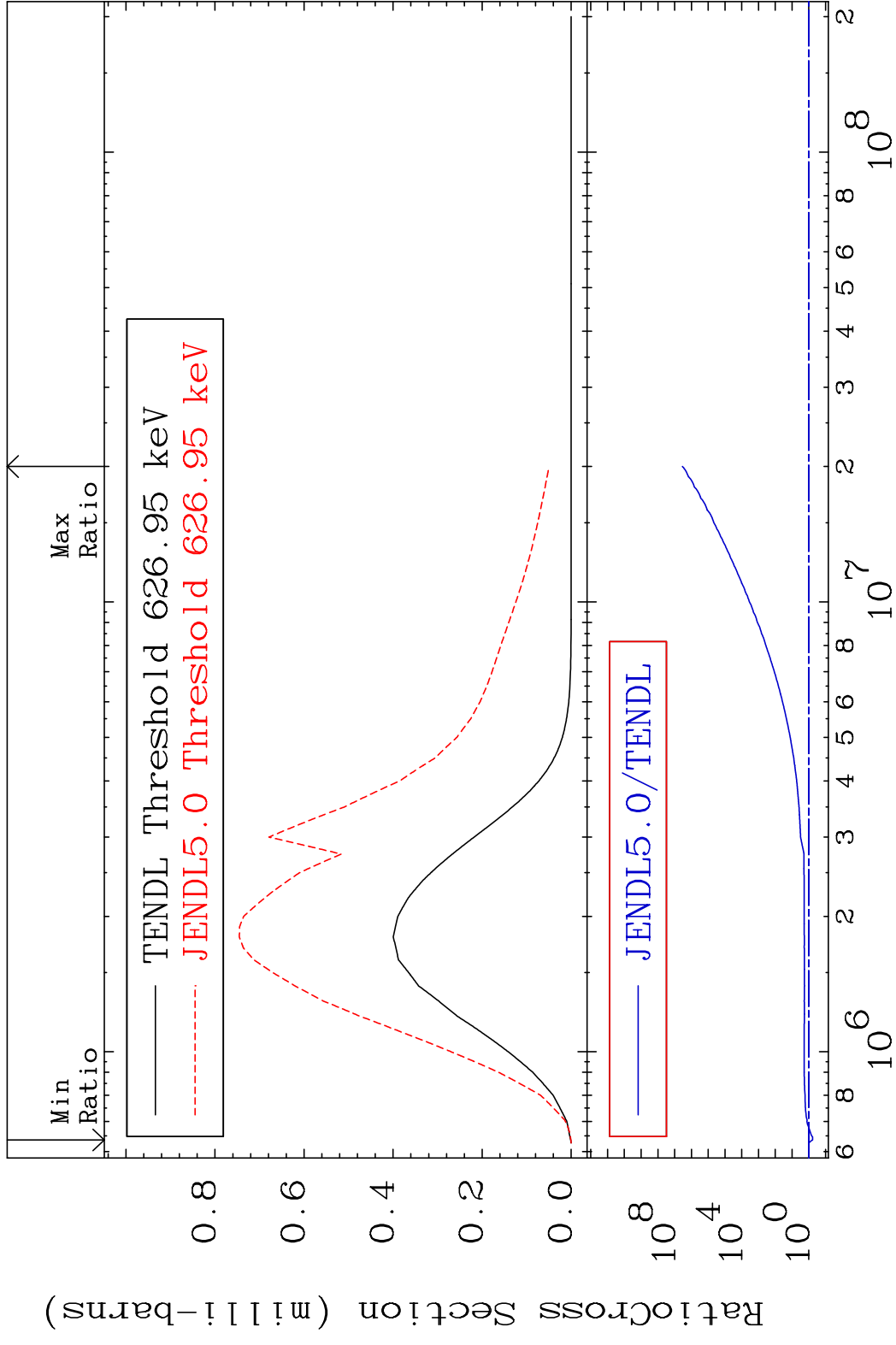
MAT 6152 MT= 76 (n, n') Level 61-Pm-148  
 Cross Section -84.68 To 1030. %



MAT 6152 MT= 77 (n, n') Level 61-Pm-148  
 Cross Section -100.0 To -81.29%



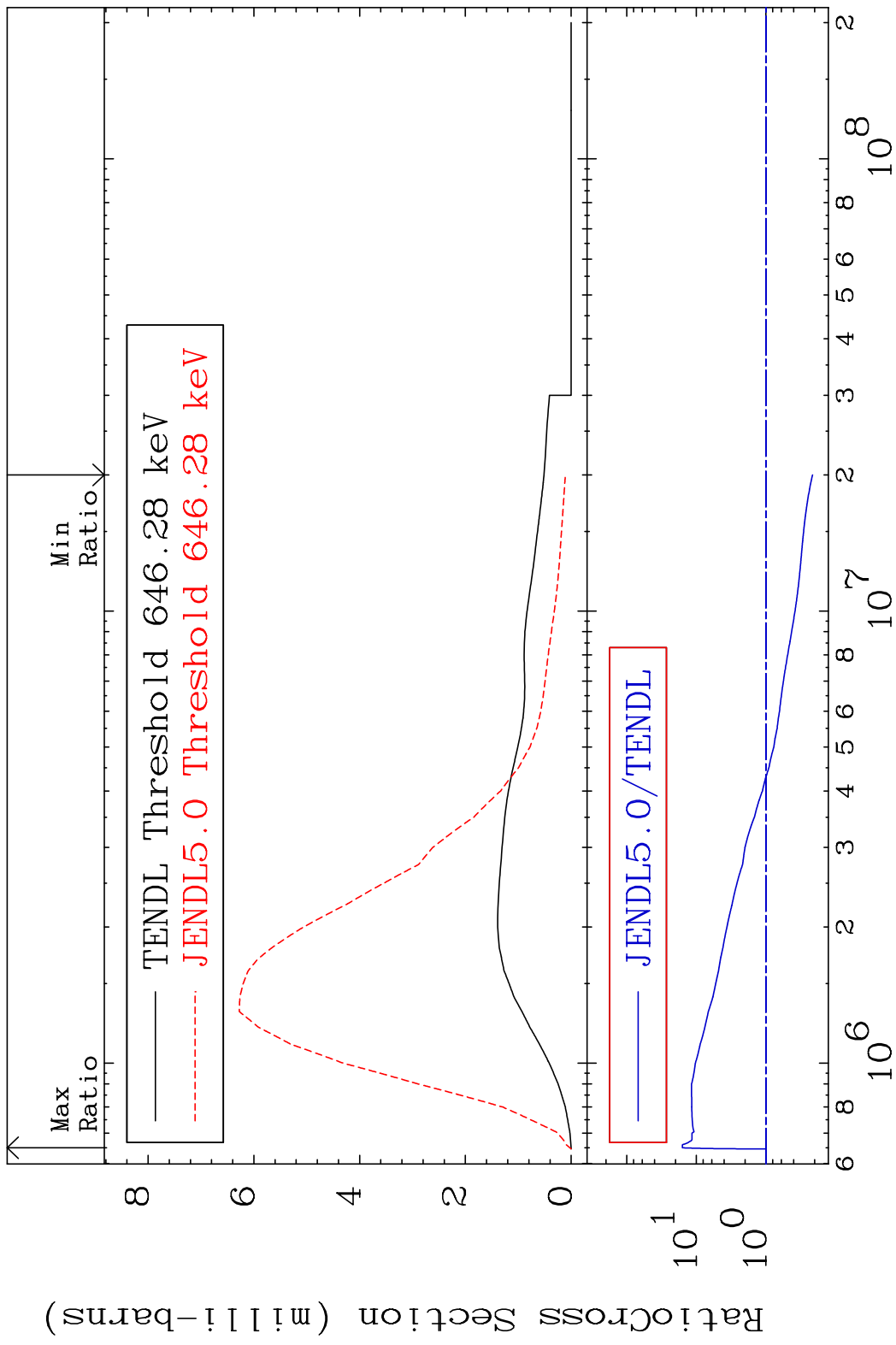
MAT 6152 MT= 78 (n, n') Level 61-Pm-148  
 Cross Section -39.98 To 9999. %



39 Incident Energy (eV) 61-Pm-148

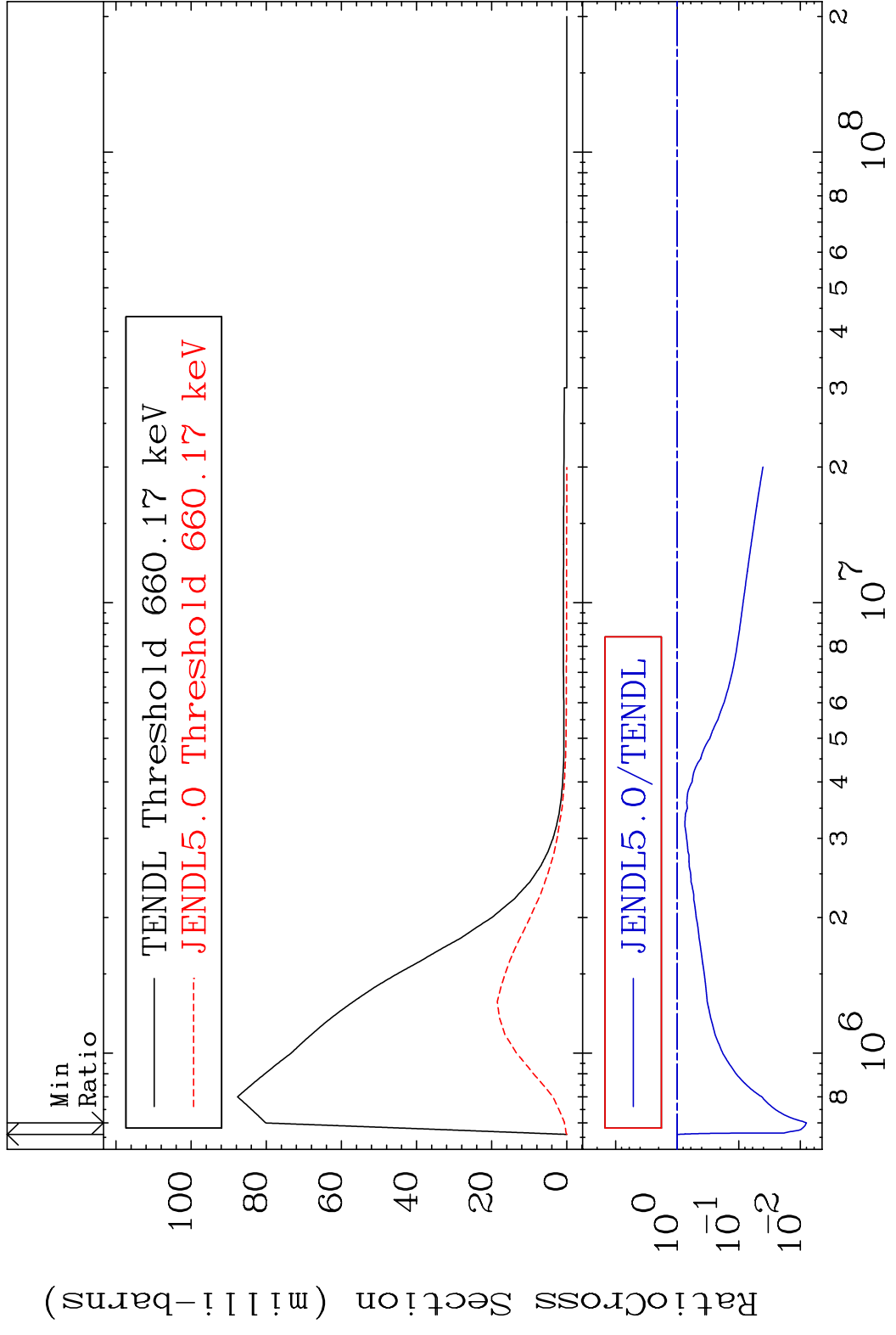


MAT 6152 MT= 79 (n, n') Level 61-Pm-148  
 Cross Section -78.60 To 1492. %



40 Incident Energy (eV) 61-Pm-148

MAT 6152 MT= 80 (n,n') Level 61-Pm-148  
 Cross Section -99.20 To 0.000 %

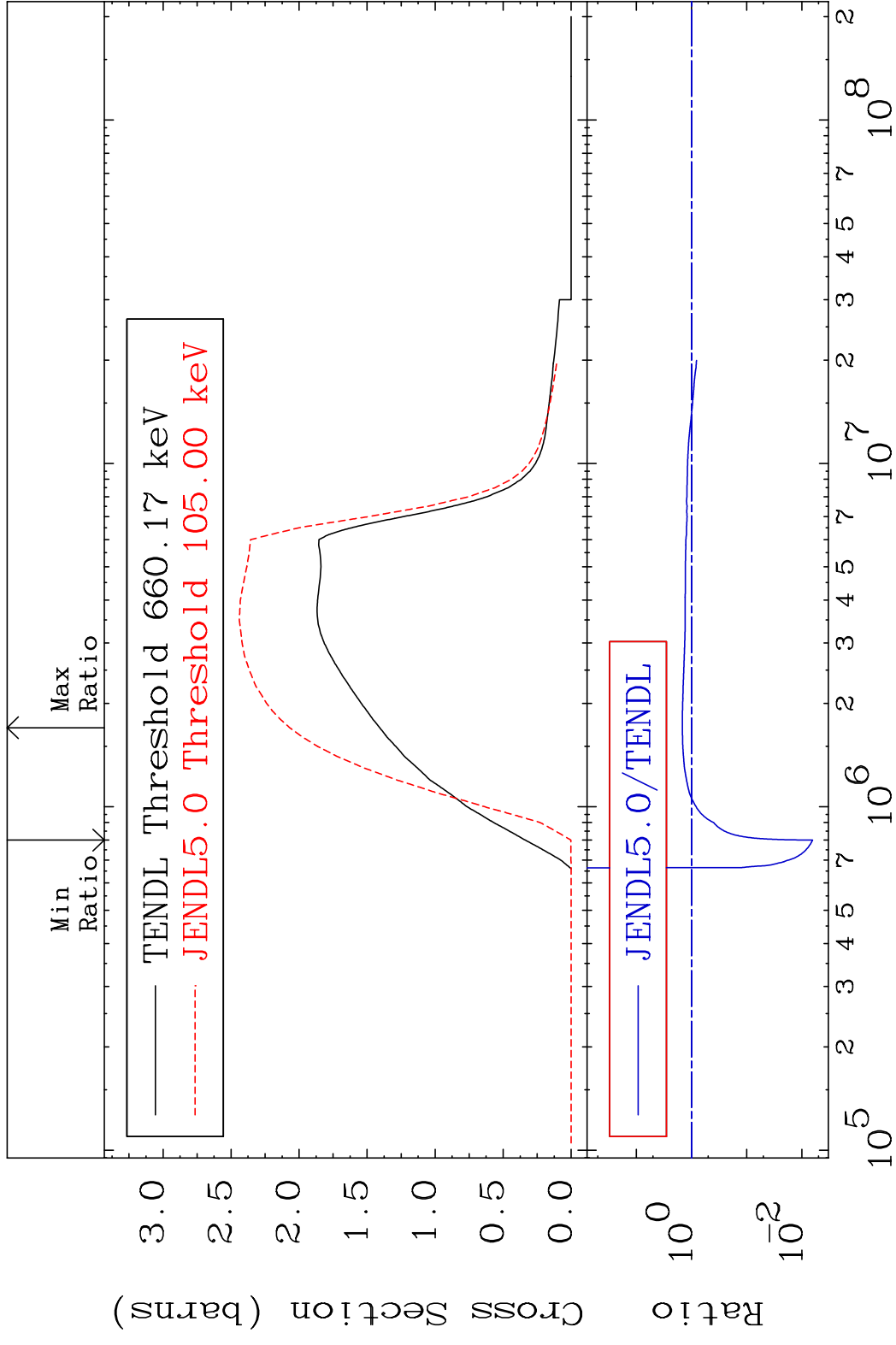


MAT 6152

(n, n') Continuum

61-Pm-148

Cross Section -99.36 To 47.03 %



42

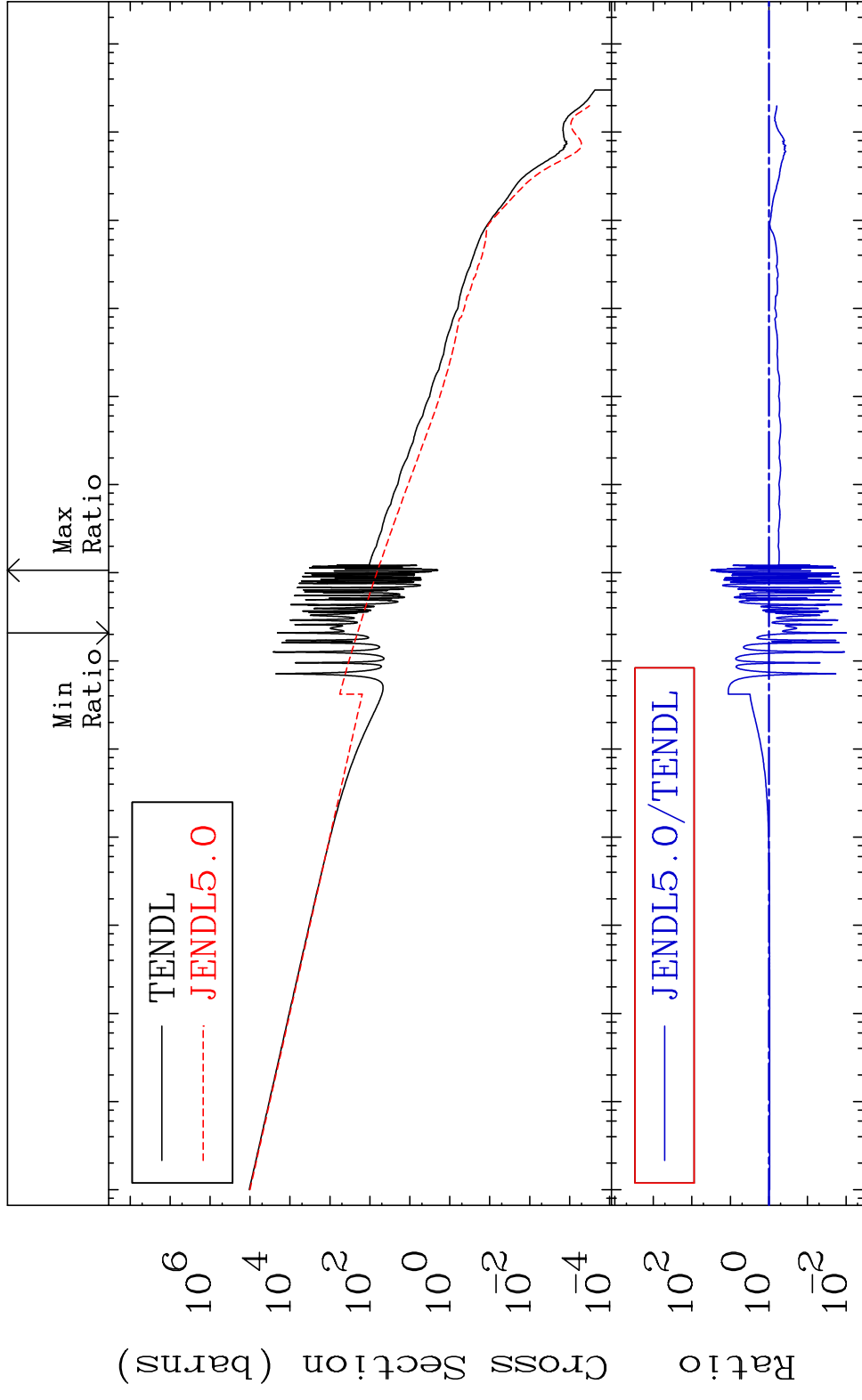
Incident Energy (eV)

61-Pm-148

MAT 6152

(n,  $\gamma$ )  
Cross Section -99.02 To 3142. %

61-Pm-148



43

Incident Energy (eV)

61-Pm-148

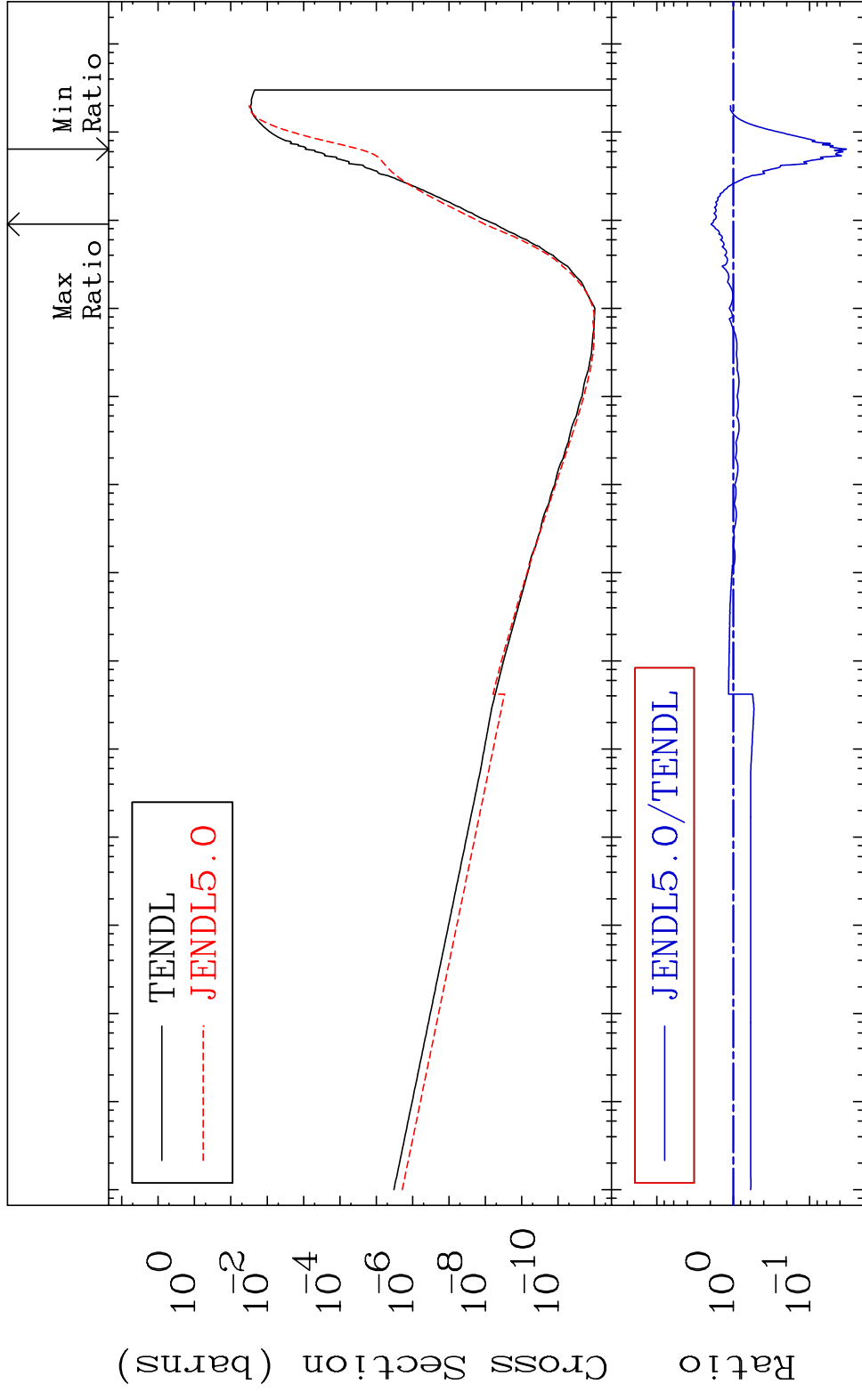
MAT 6152

(n, p)

61-Pm-148

Cross Section

-96.69 To 97.09 %

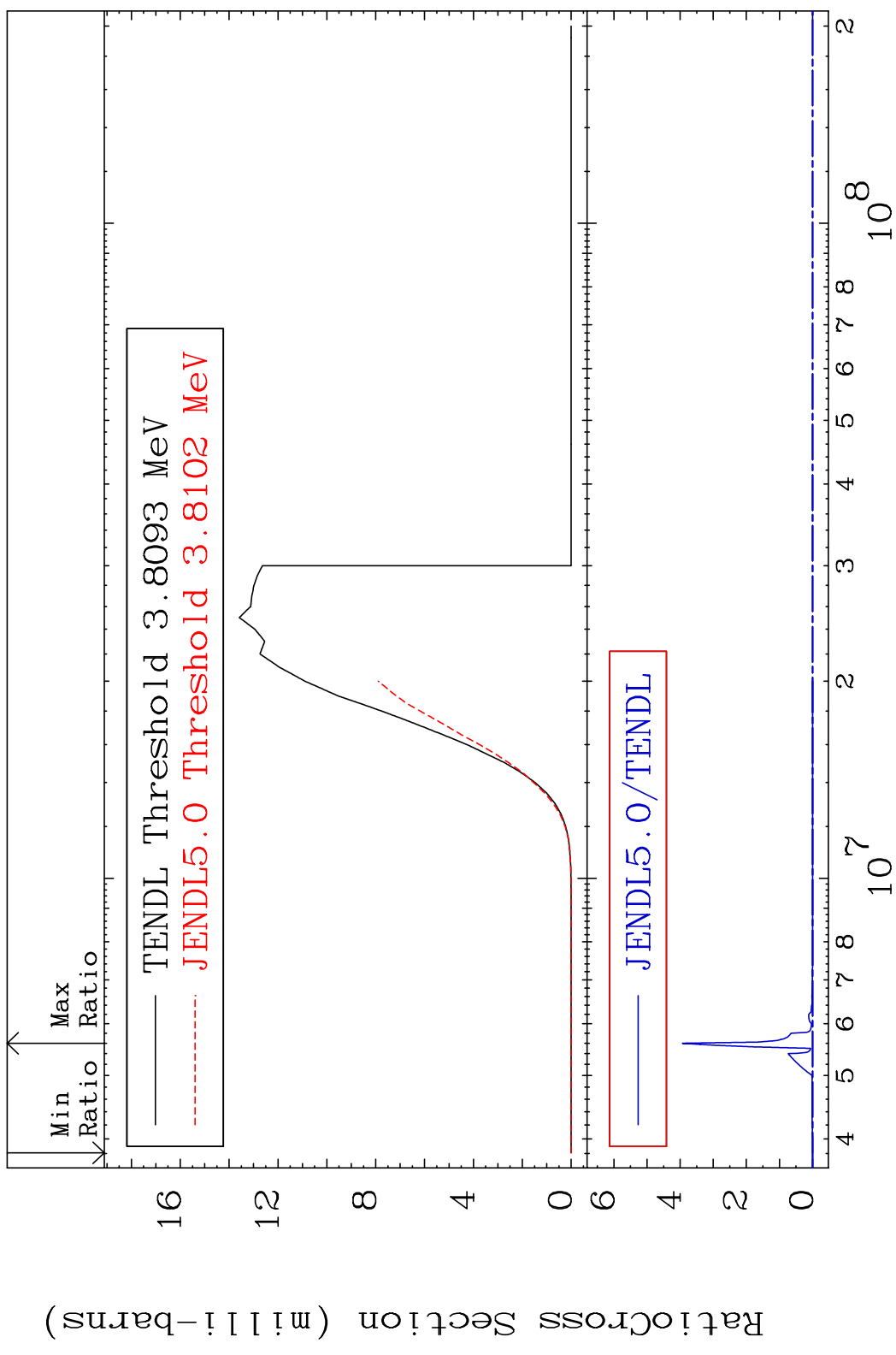


MAT 6152

(n,d)

61-Pm-148

Cross Section -100.0 To 9999. %

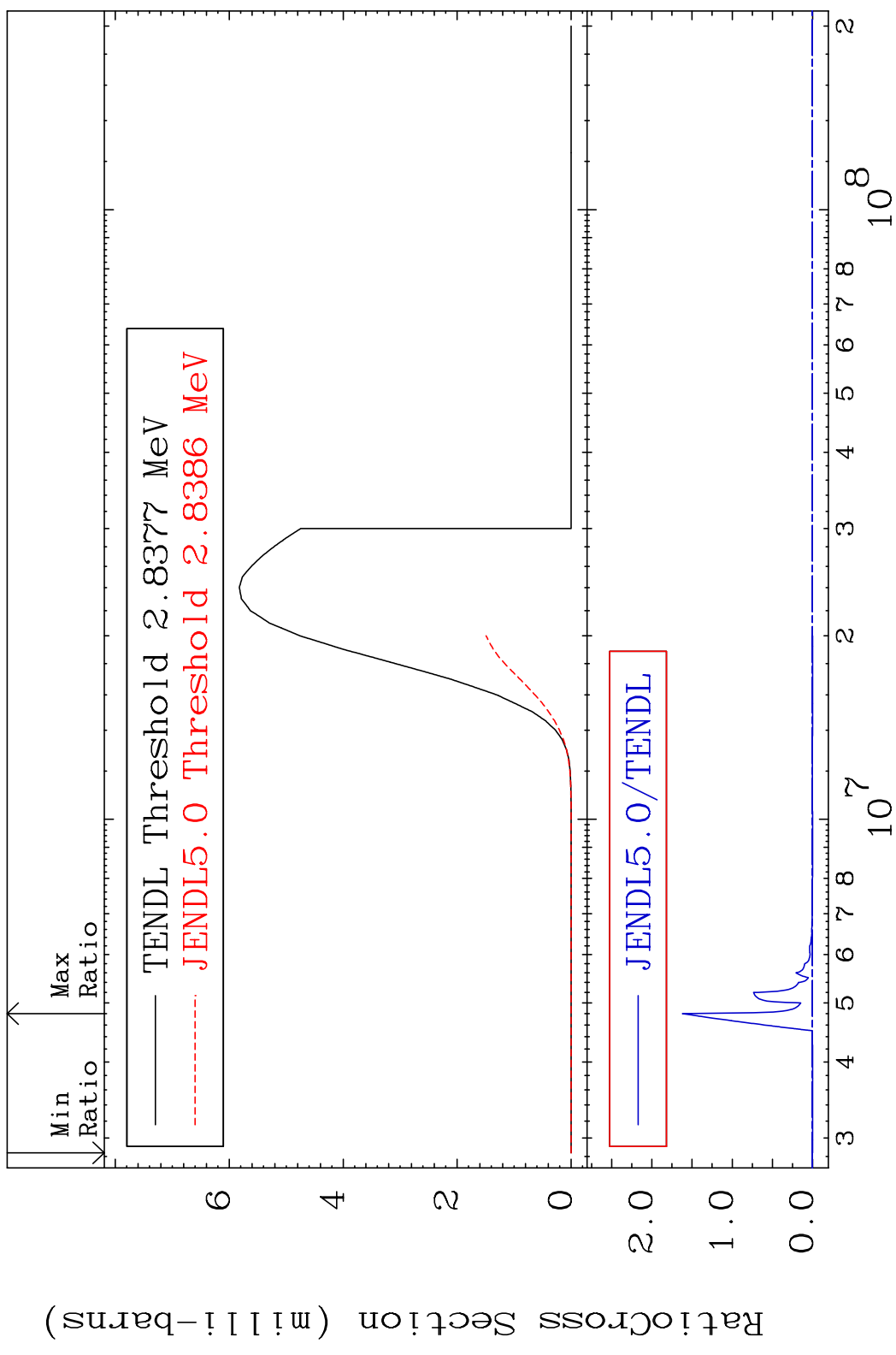


MAT 6152

(n, t)

61-Pm-148

Cross Section -100.0 To 9999. %

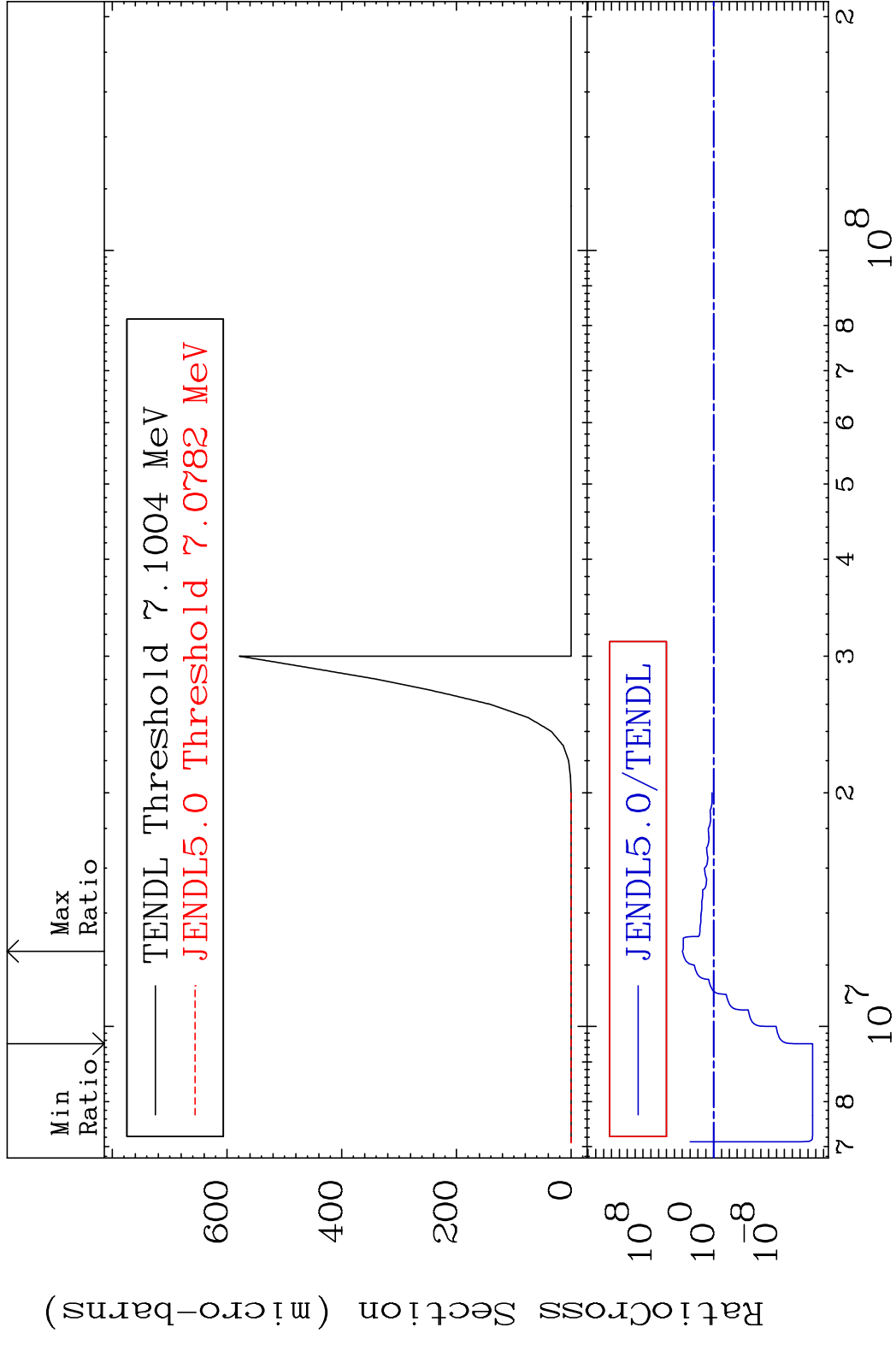


MAT 6152

(n, He-3)

61-Pm-148

Cross Section -100.0 To 9999. %



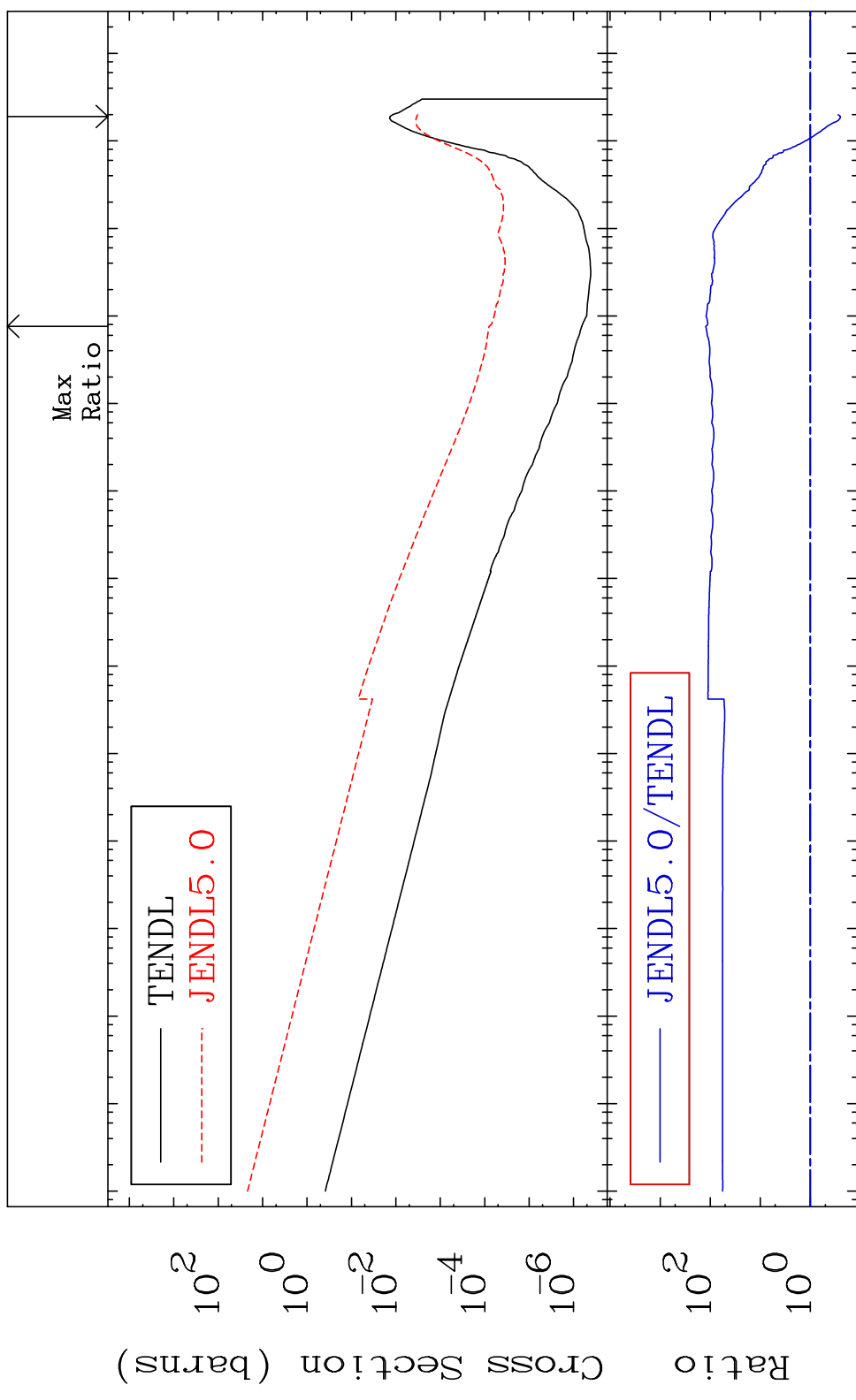


MAT 6152

(n,  $\alpha$ )

61-Pm-148

Cross Section -75.12 To 9999. %

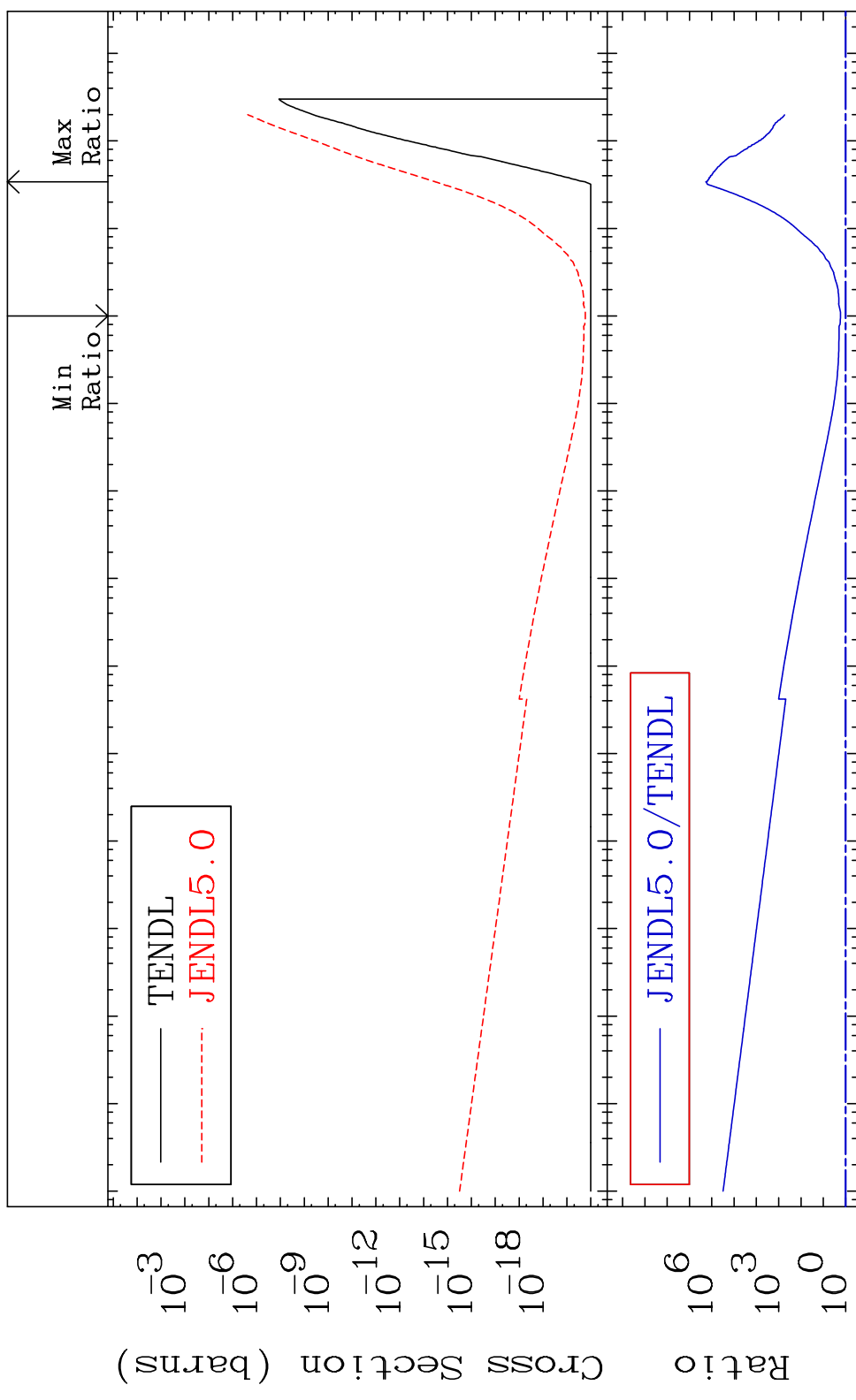


MAT 6152

(n, 2α)

61-Pm-148

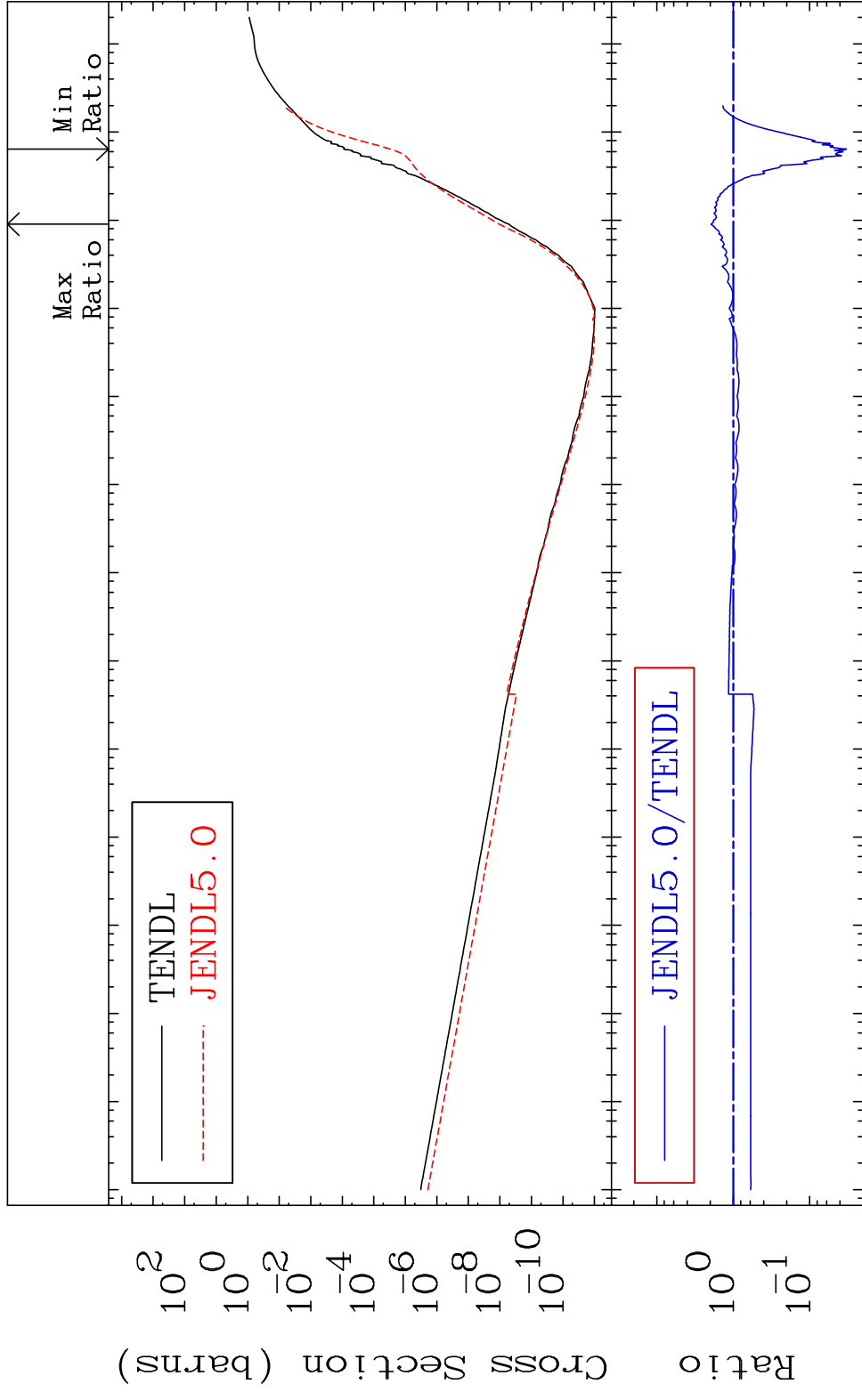
Cross Section 69.96 To 9999. %



MAT 6152

Hydrogen Production  
Cross Section -96.69 To 97.09 %

61-Pm-148

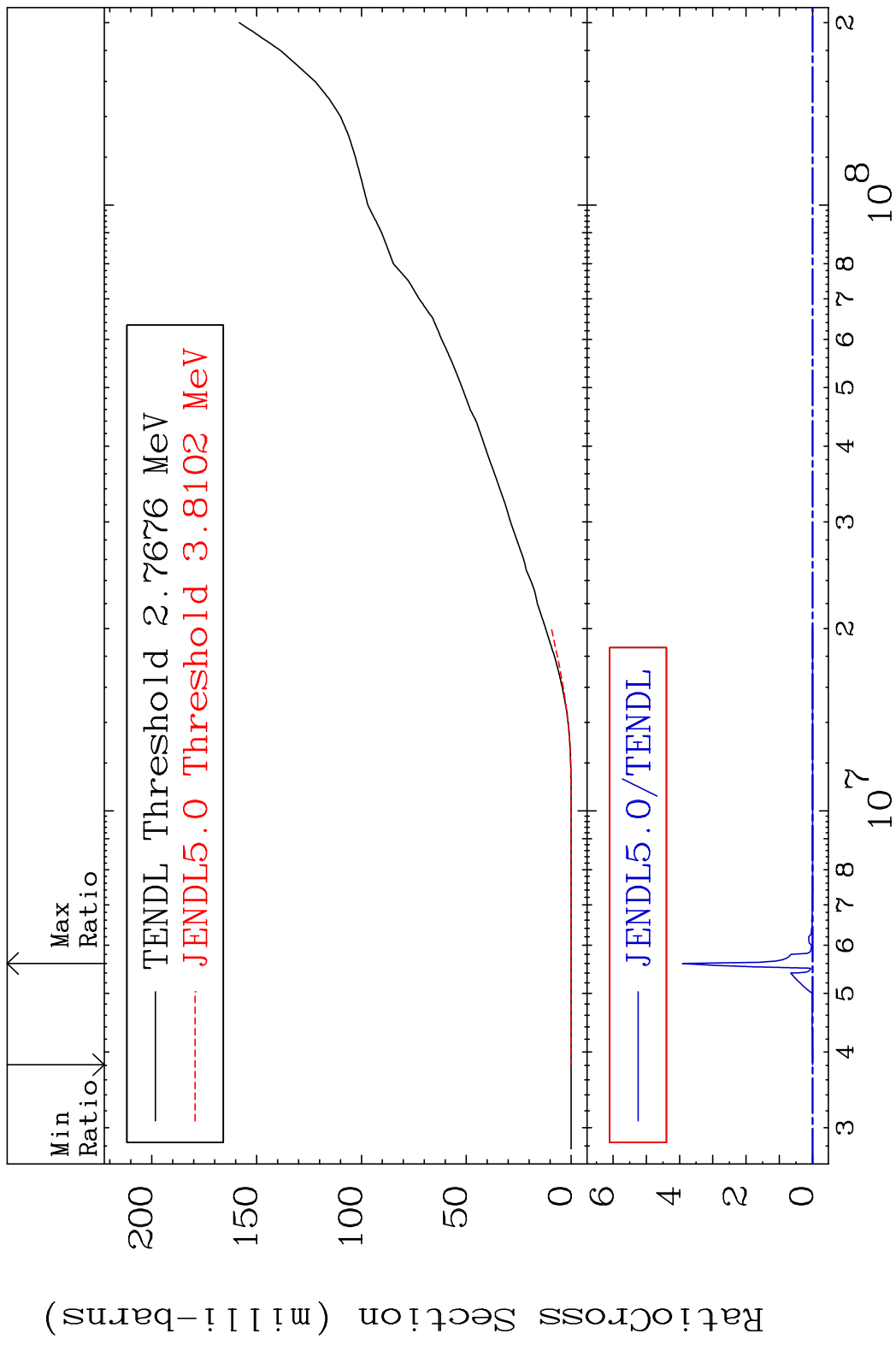


50

Incident Energy (eV)

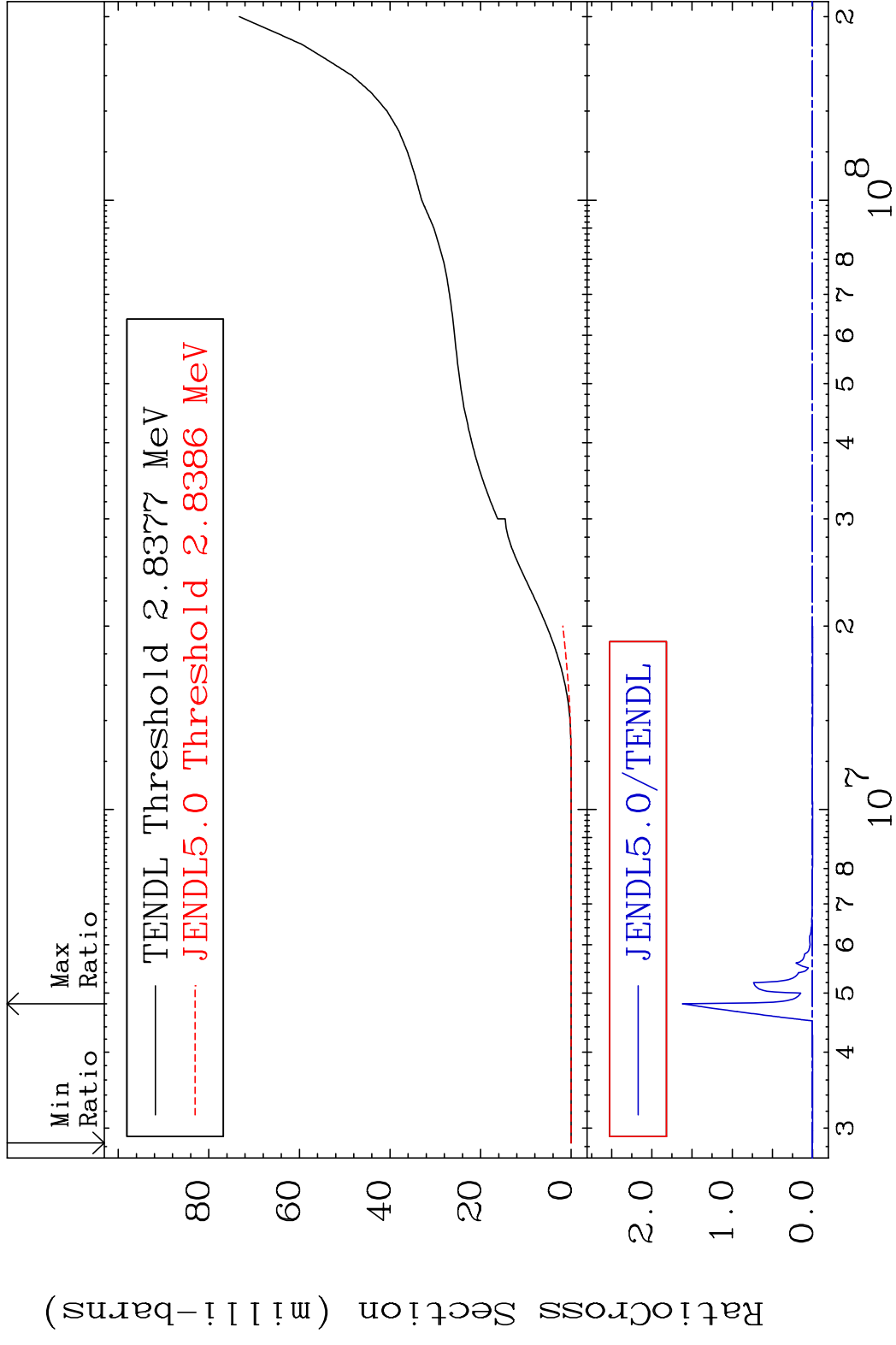
61-Pm-148

MAT 6152 Deuterium Production 61-Pm-148  
 Cross Section -100.0 To 9999. %

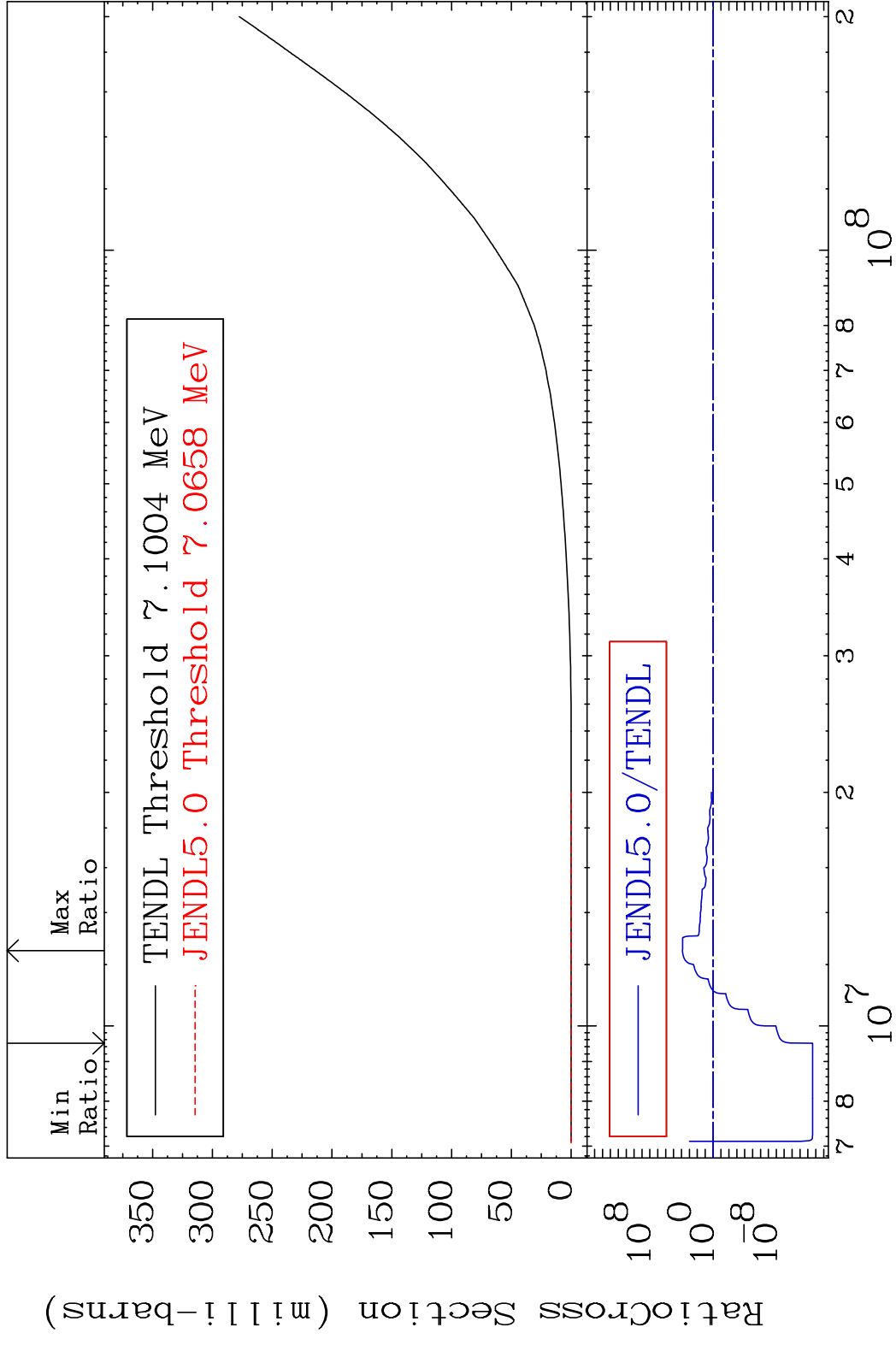


MAT 6152

Tritium Production 61-Pm-148  
Cross Section -100.0 To 9999. %



Cross Section -100.0 To 9999. %

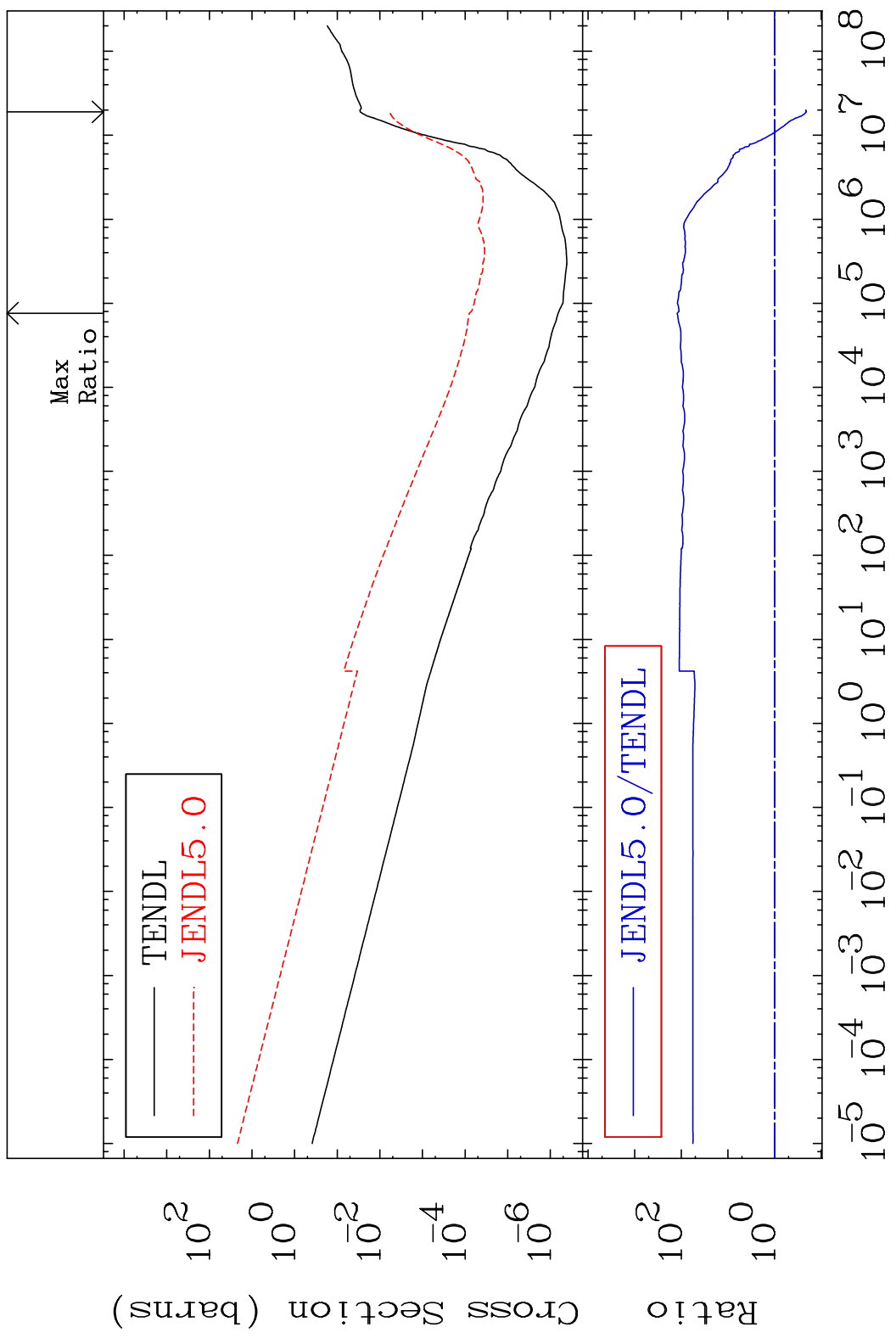


MAT 6152

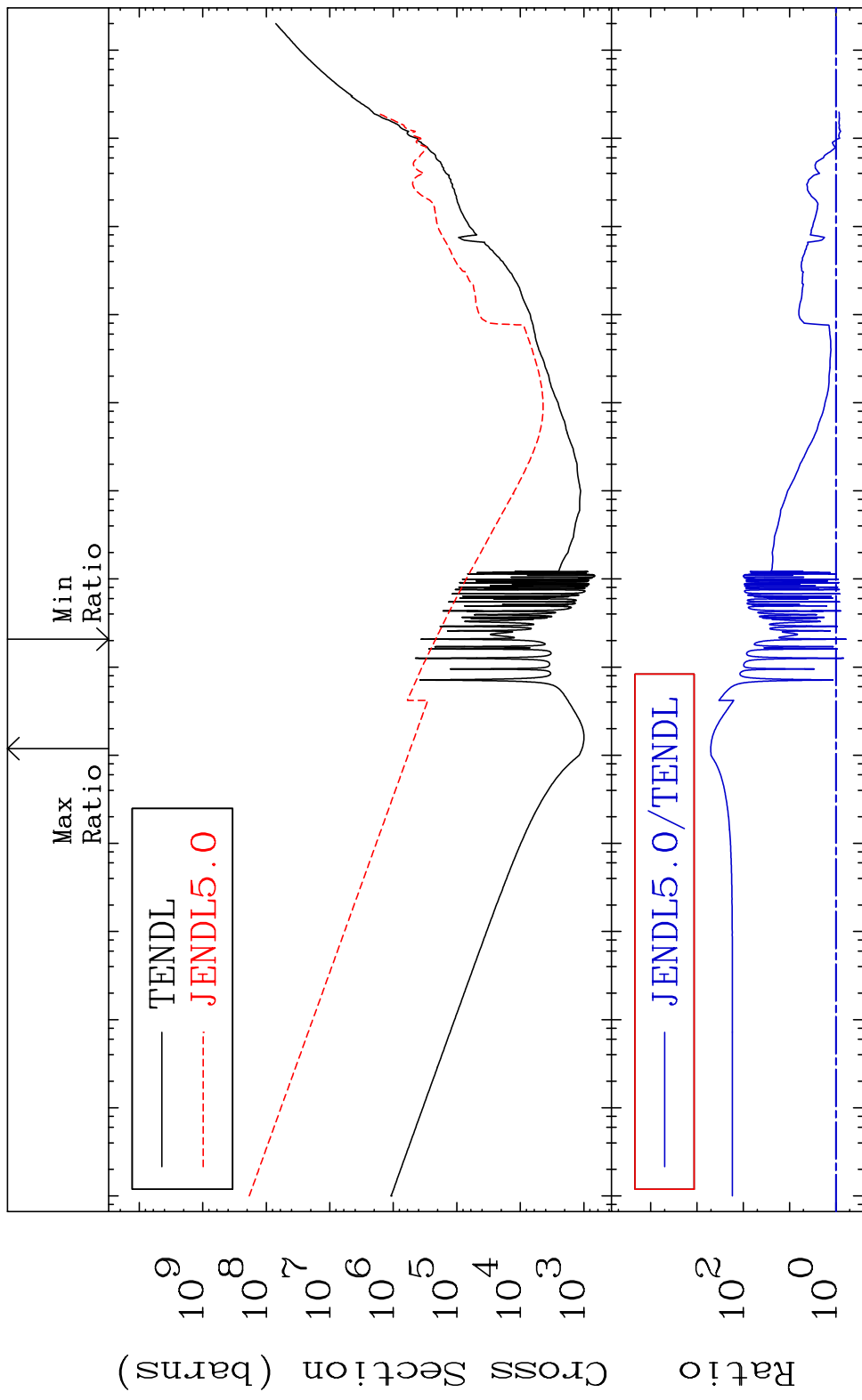
He-4 Production

61-Pm-148

Cross Section -79.19 To 9999. %



MAT 6152 Kerma total (eV-barns) 61-Pm-148  
 Cross Section -40.71 To 9999. %

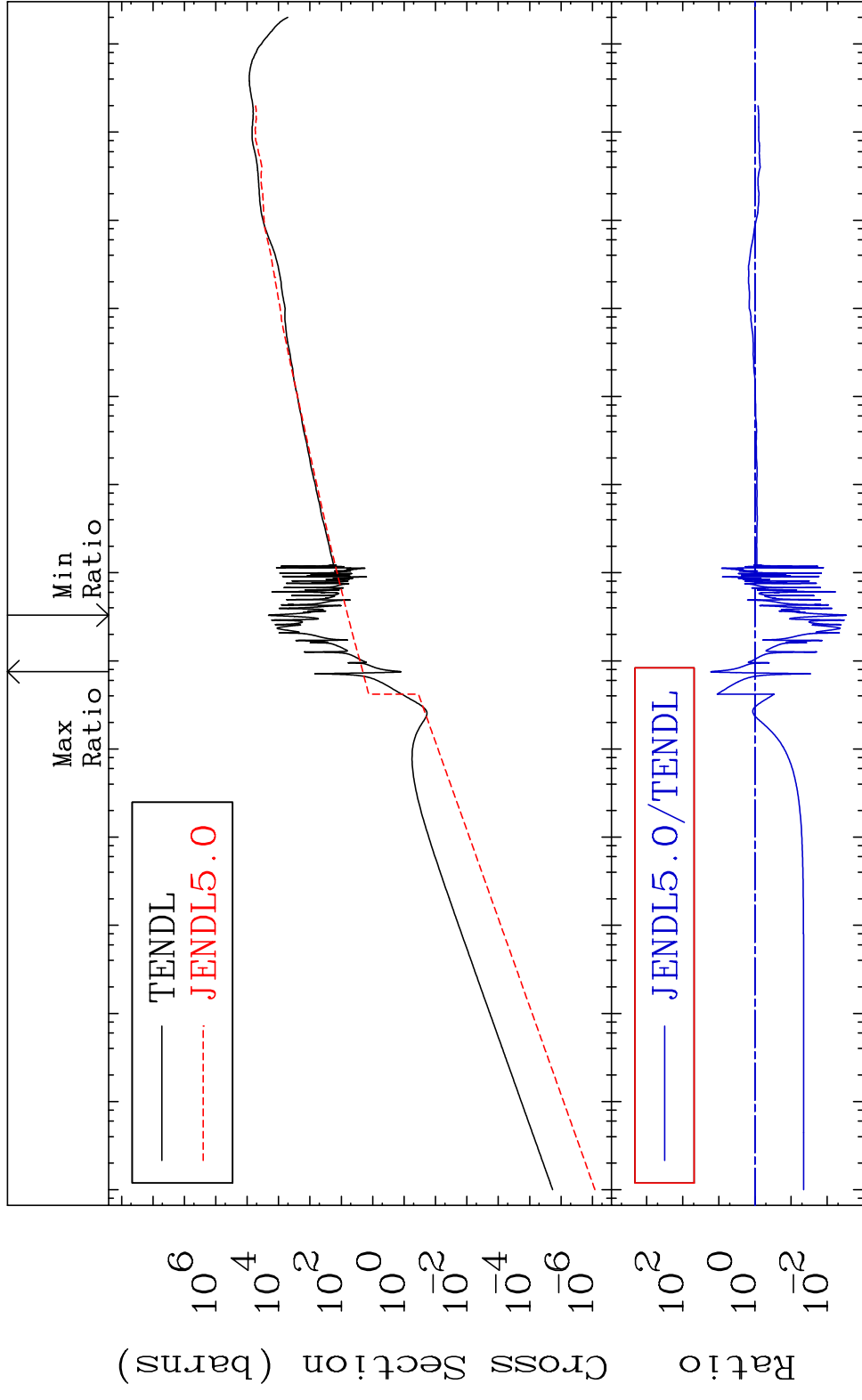




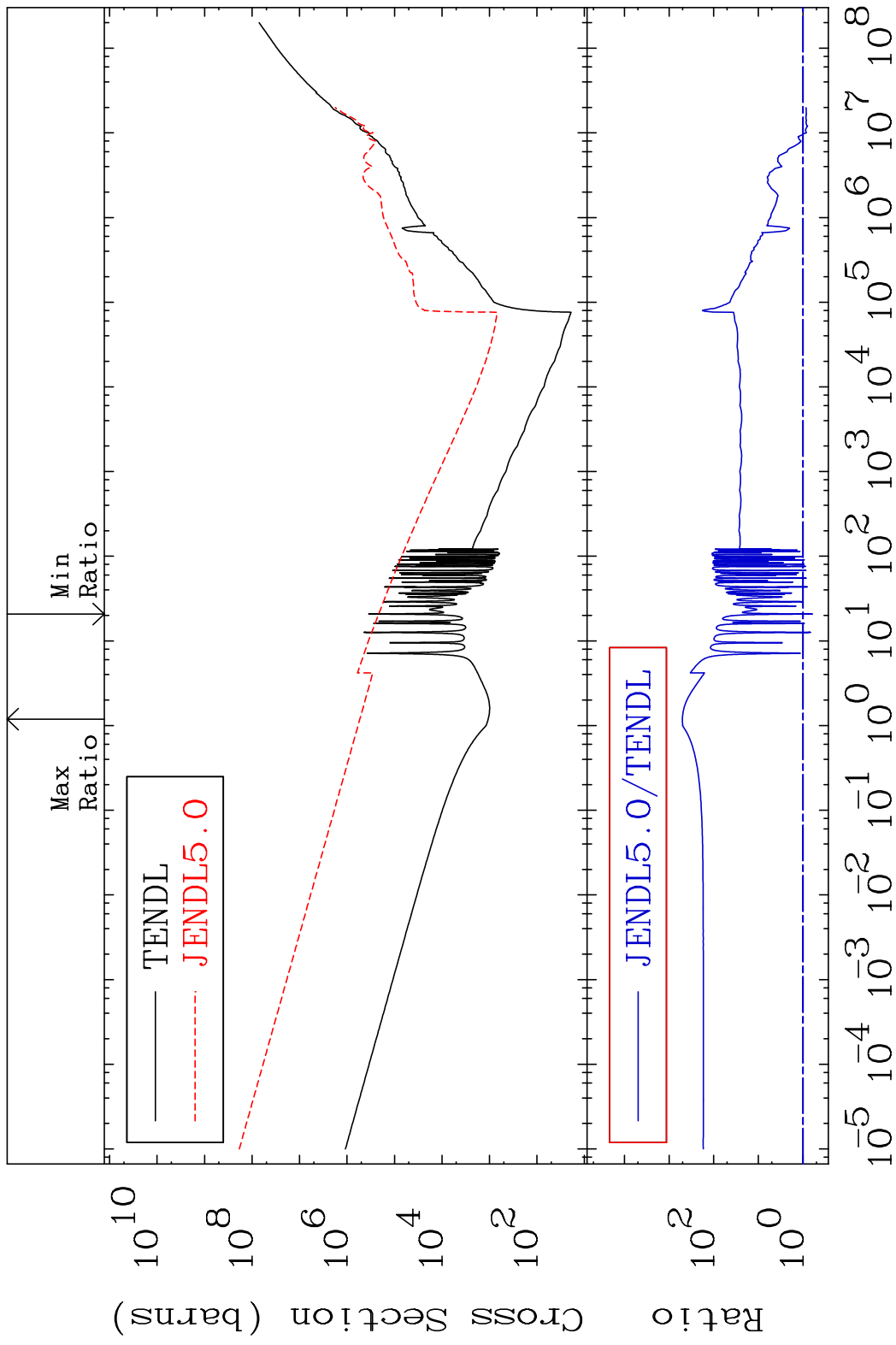
MAT 6152

Kerma elastic  
Cross Section

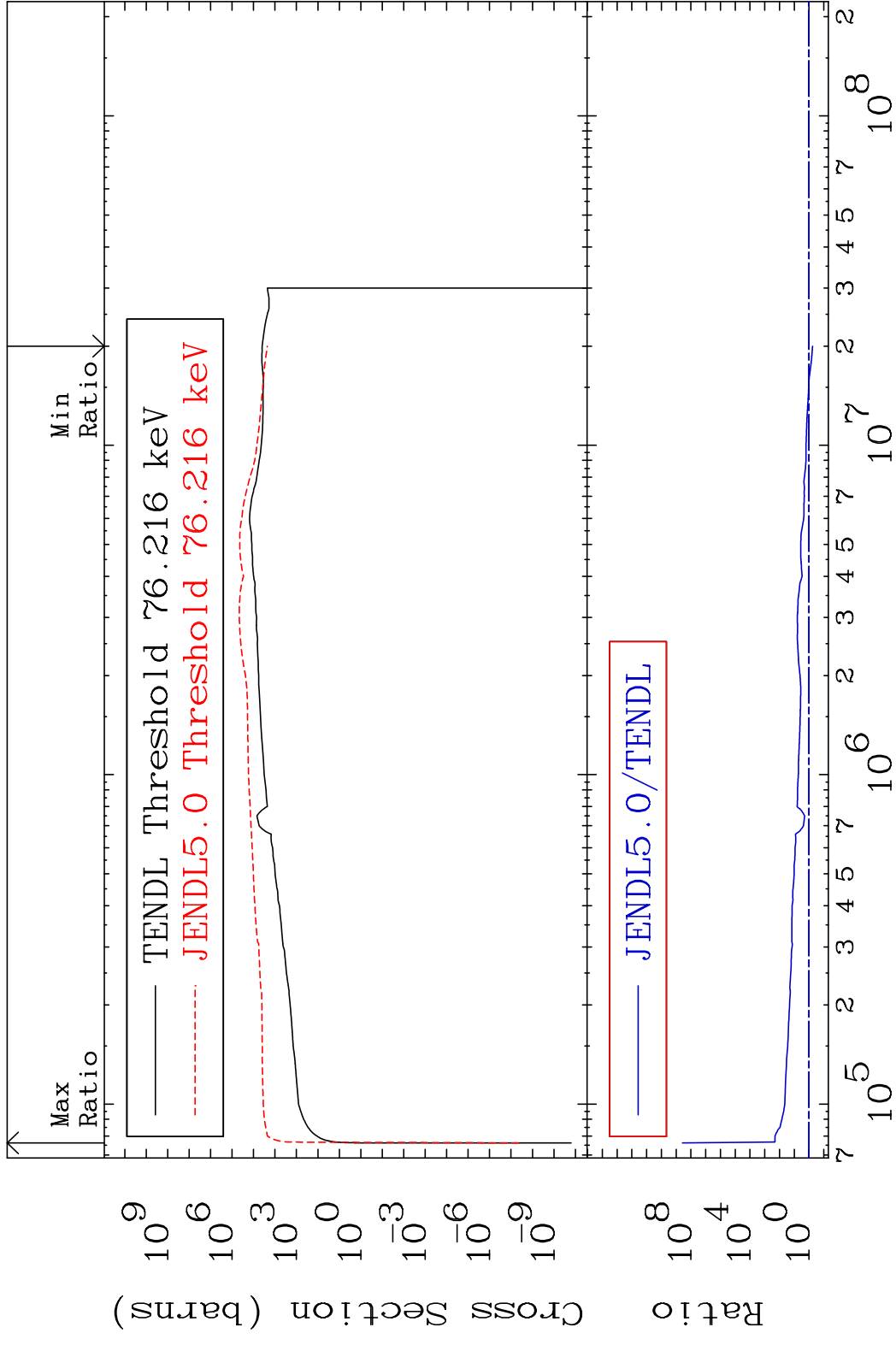
61-Pm-148  
-99.70 To 1581. %



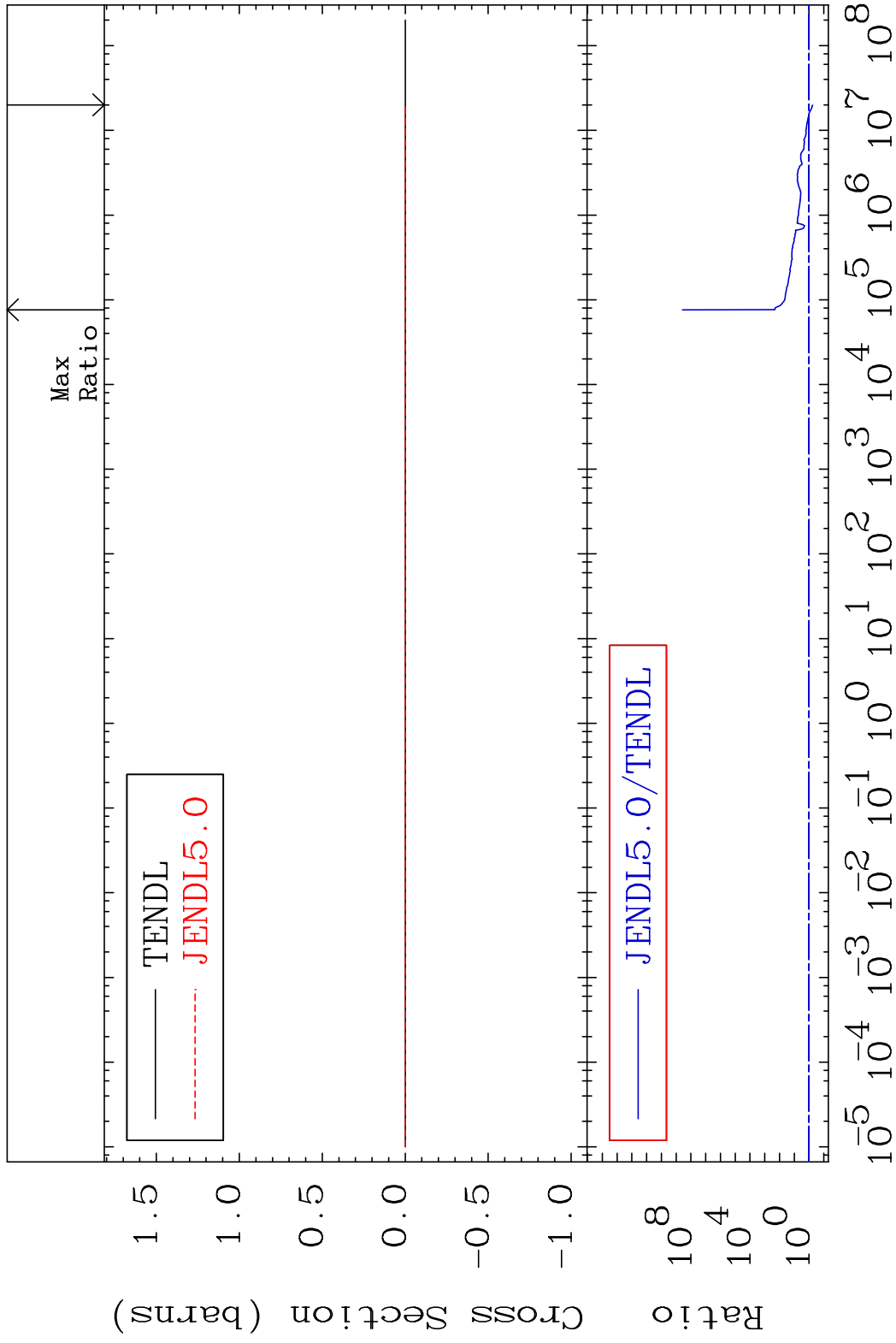
MAT 6152 Kerma non-elastic (all but mt2) 61-Pm-148  
 Cross Section -39.08 To 9999. %



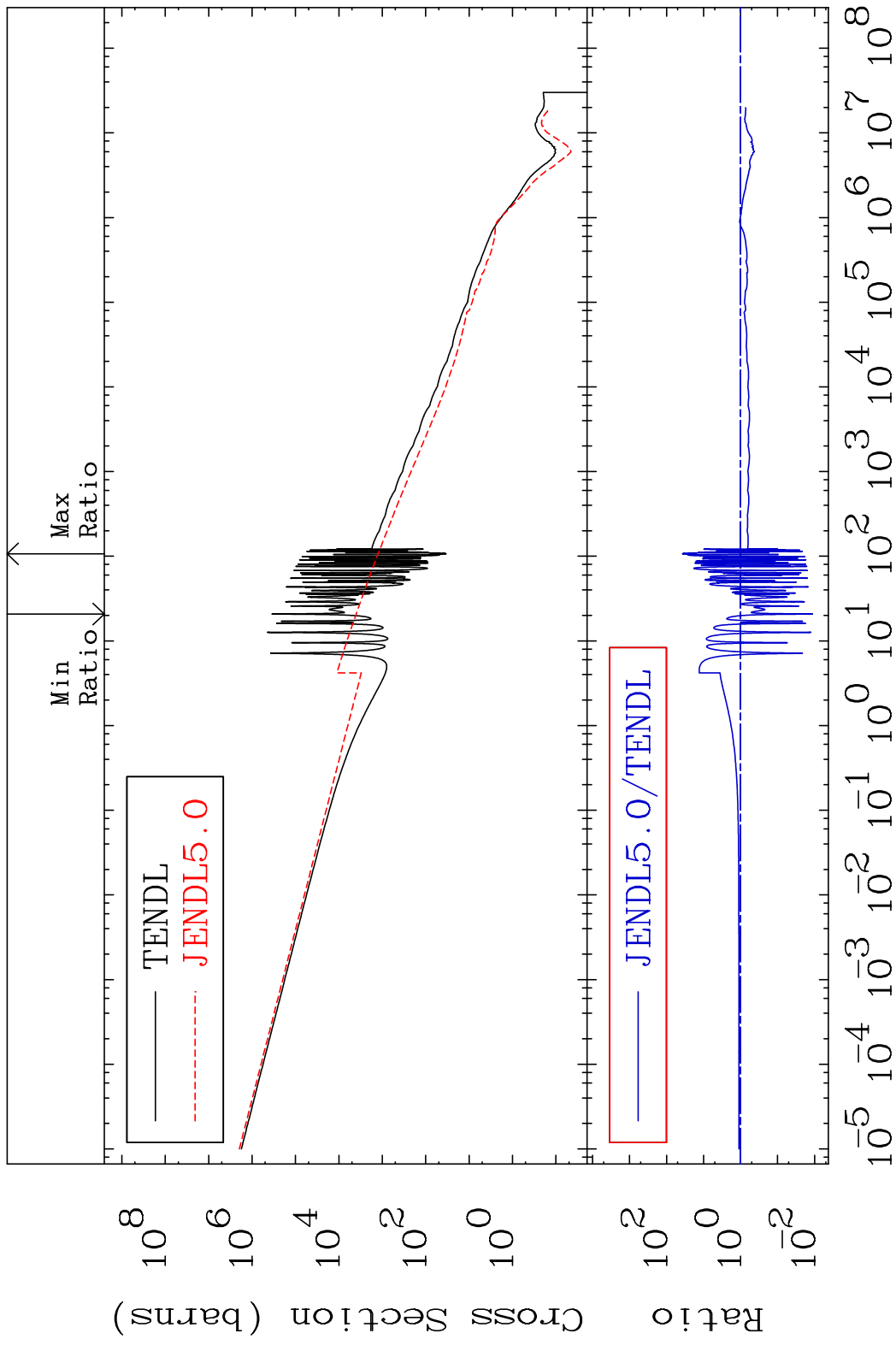
MAT 6152 Kerma inelastic (mt51-91) 61-Pm-148  
 Cross Section -41.94 To 9999. %



MAT 6152 Kerma fission (mt18 or mt19-20-21-38)  $\beta$ 1-Pm-148  
 Cross Section -41.94 To 9999. %

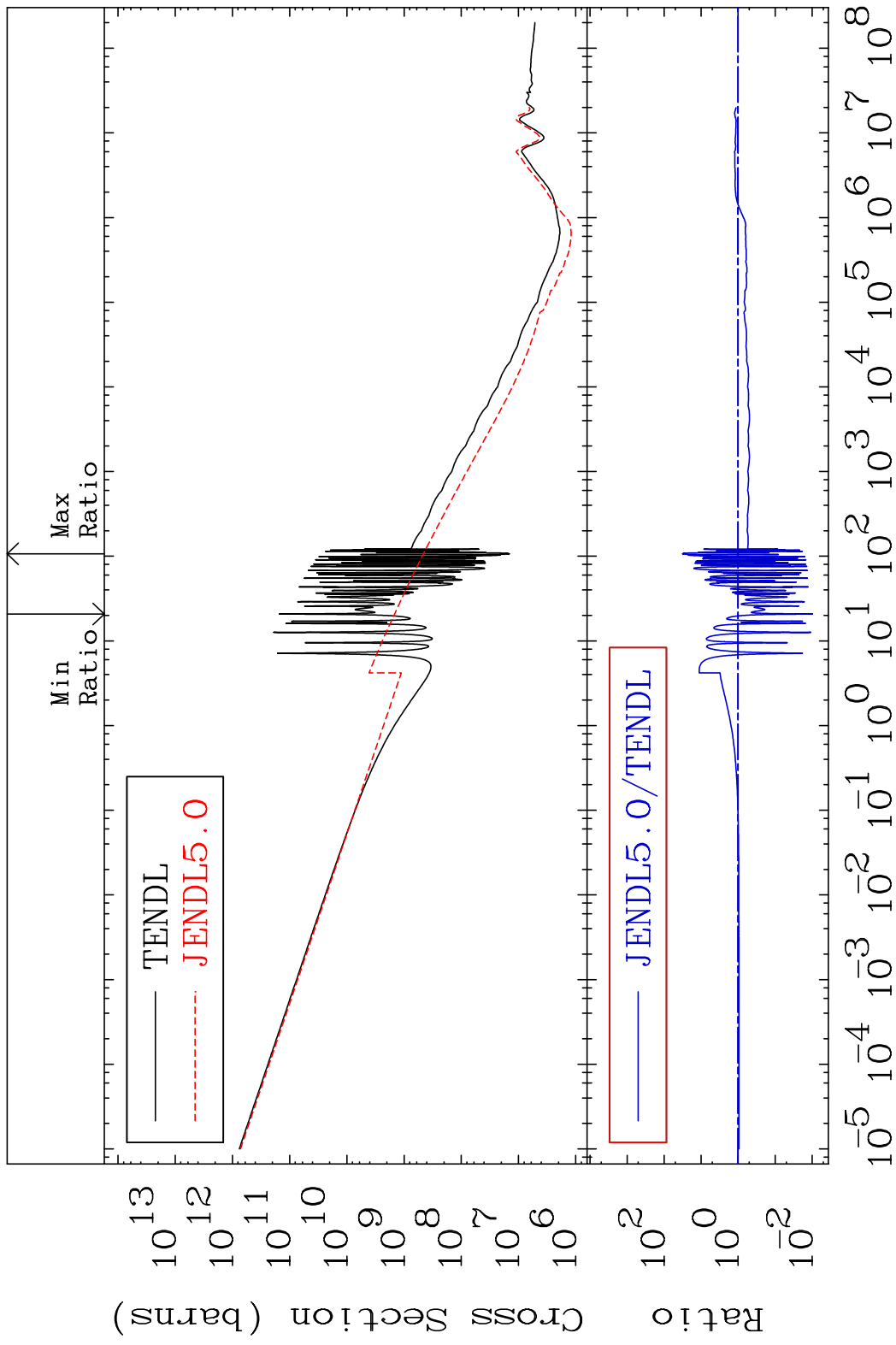


MAT 6152 Kerma capture (mt102) 61-Pm-148  
 Cross Section -98.86 To 3645. %



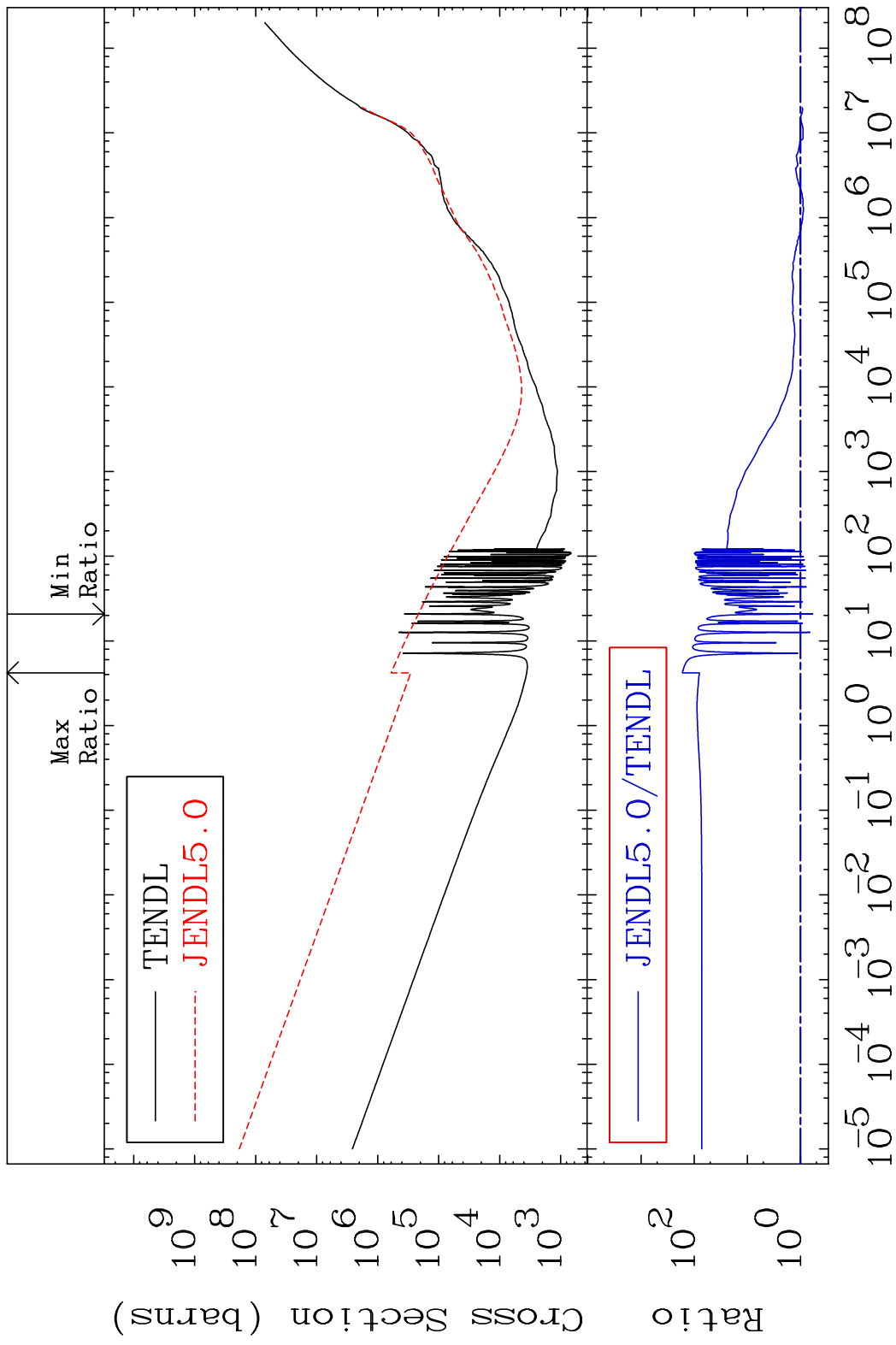
60 Incident Energy (eV) 61-Pm-148

MAT 6152 Total photon (eV-barns) 61-Pm-148  
Cross Section -99.02 To 3113. %

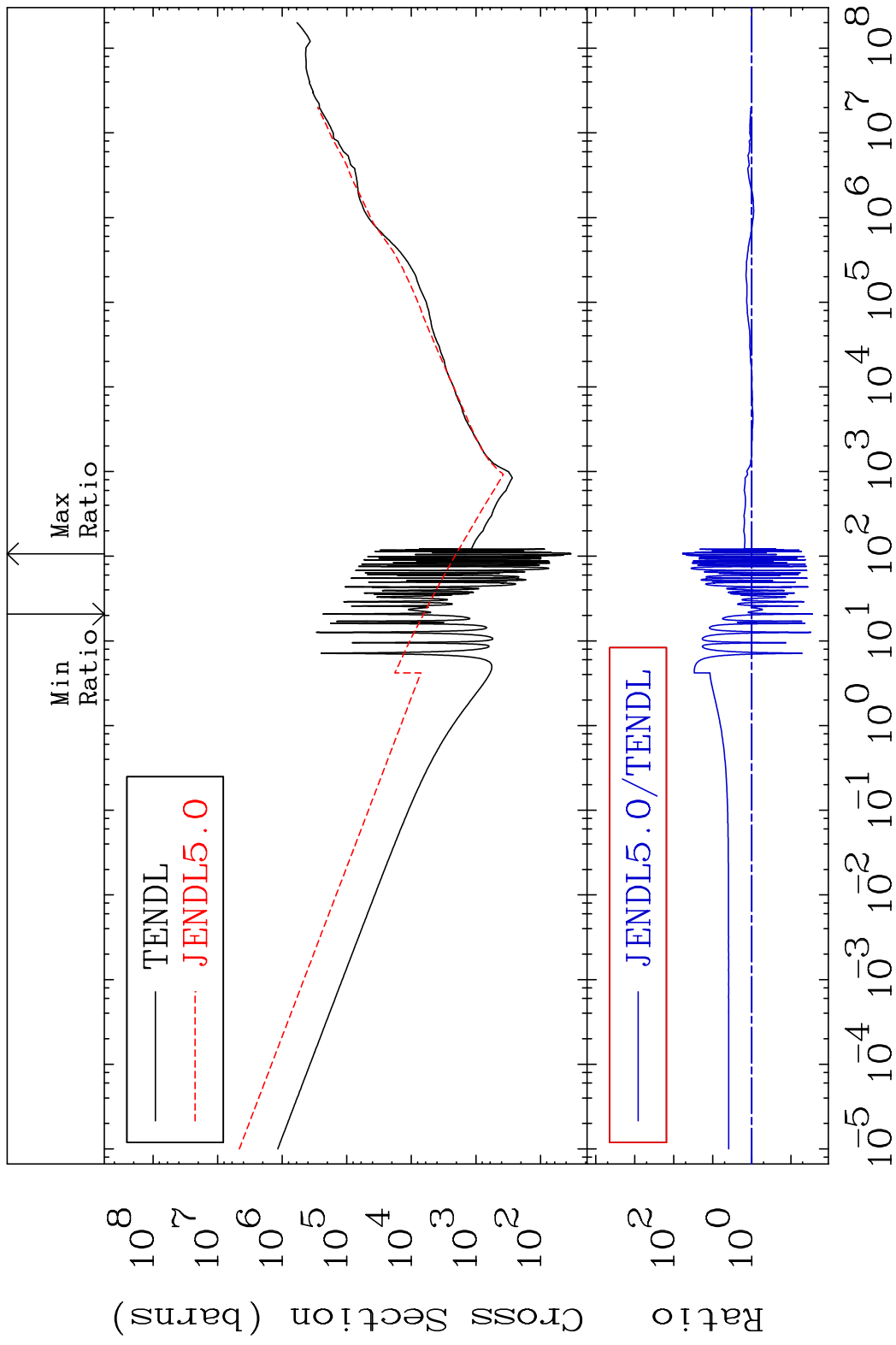


61 Incident Energy (eV) 61-Pm-148

MAT 6152 Total kinematic kerma (high limit) 61-Pm-148  
 Cross Section -40.71 To 9999. %



MAT 6152      Dpa total (eV-barns)      61-Pm-148  
 Cross Section      -97.22 To 5929. %



63      Incident Energy (eV)      61-Pm-148



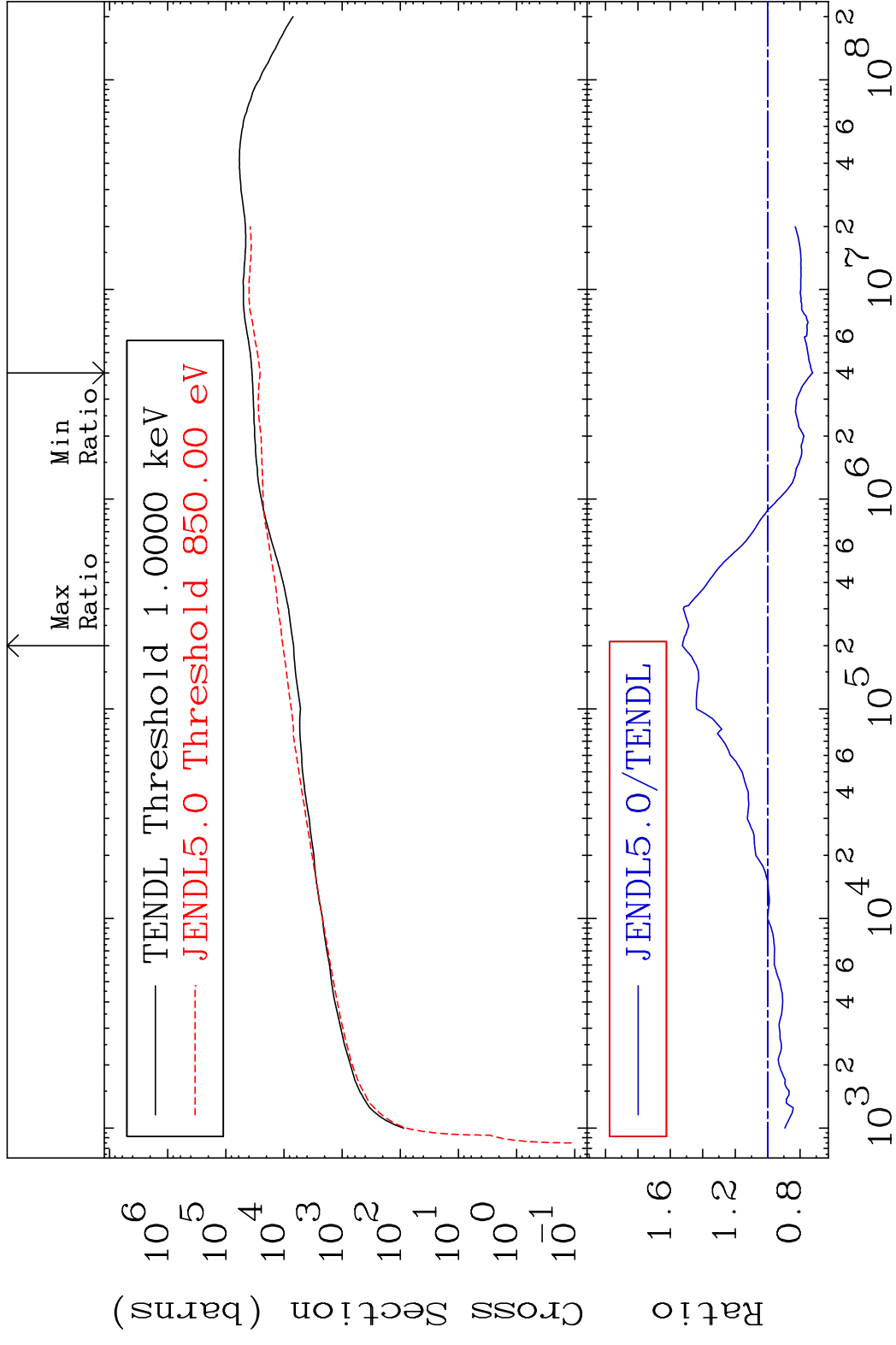
MAT 6152

Dpa elastic (mt2)

61-Pm-148

Cross Section

-27.72 To 52.60 %

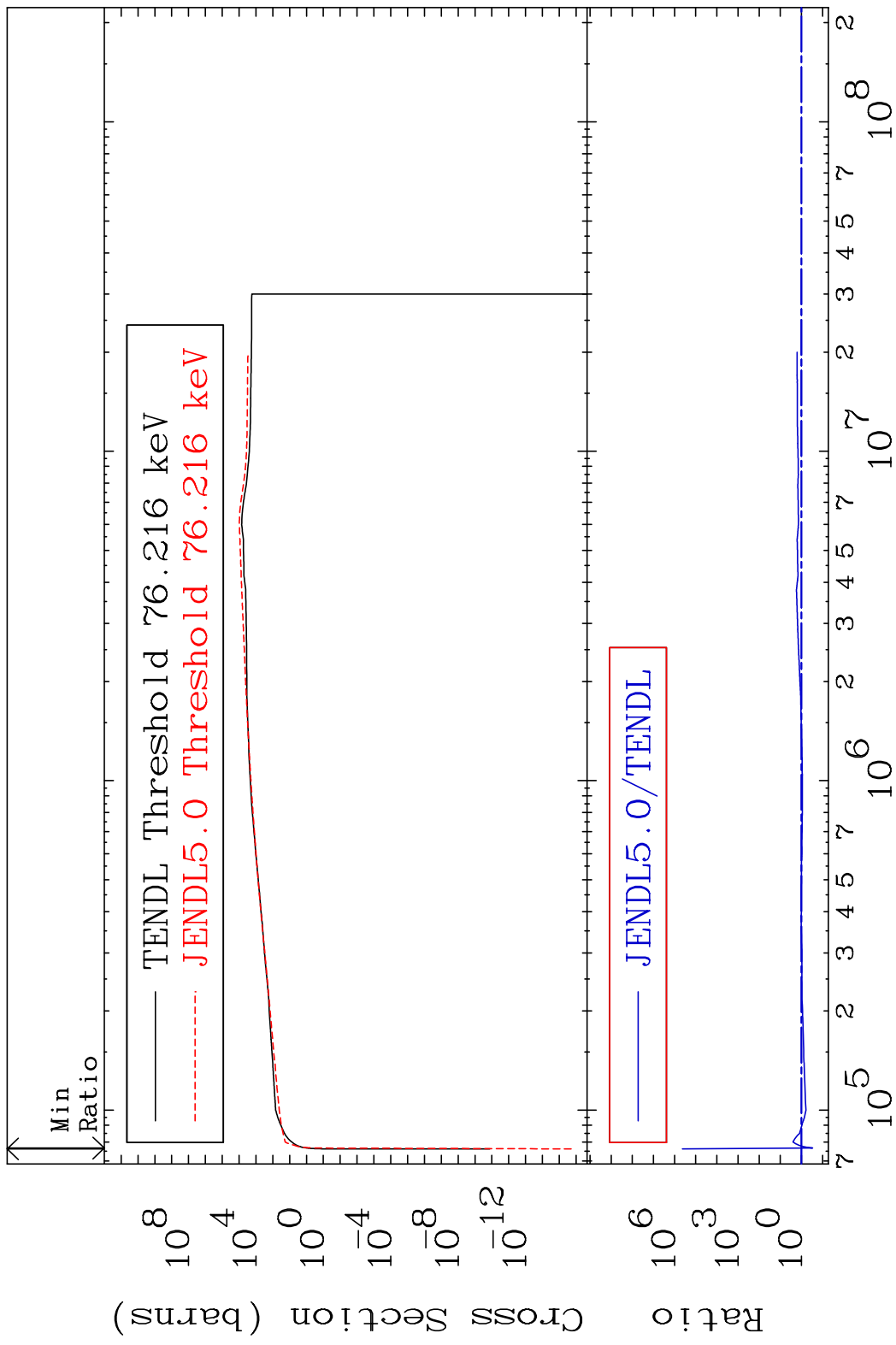


64

Incident Energy (eV)

61-Pm-148

MAT 6152      Dpa inelastic (mt51-91)      61-Pm-148  
 Cross Section      -70.18 To 9999. %



65      Incident Energy (eV)      61-Pm-148

MAT 6152 Dpa disappearance (mt102 -120) 61-Pm-148  
 Cross Section -97.22 To 5929. %

