

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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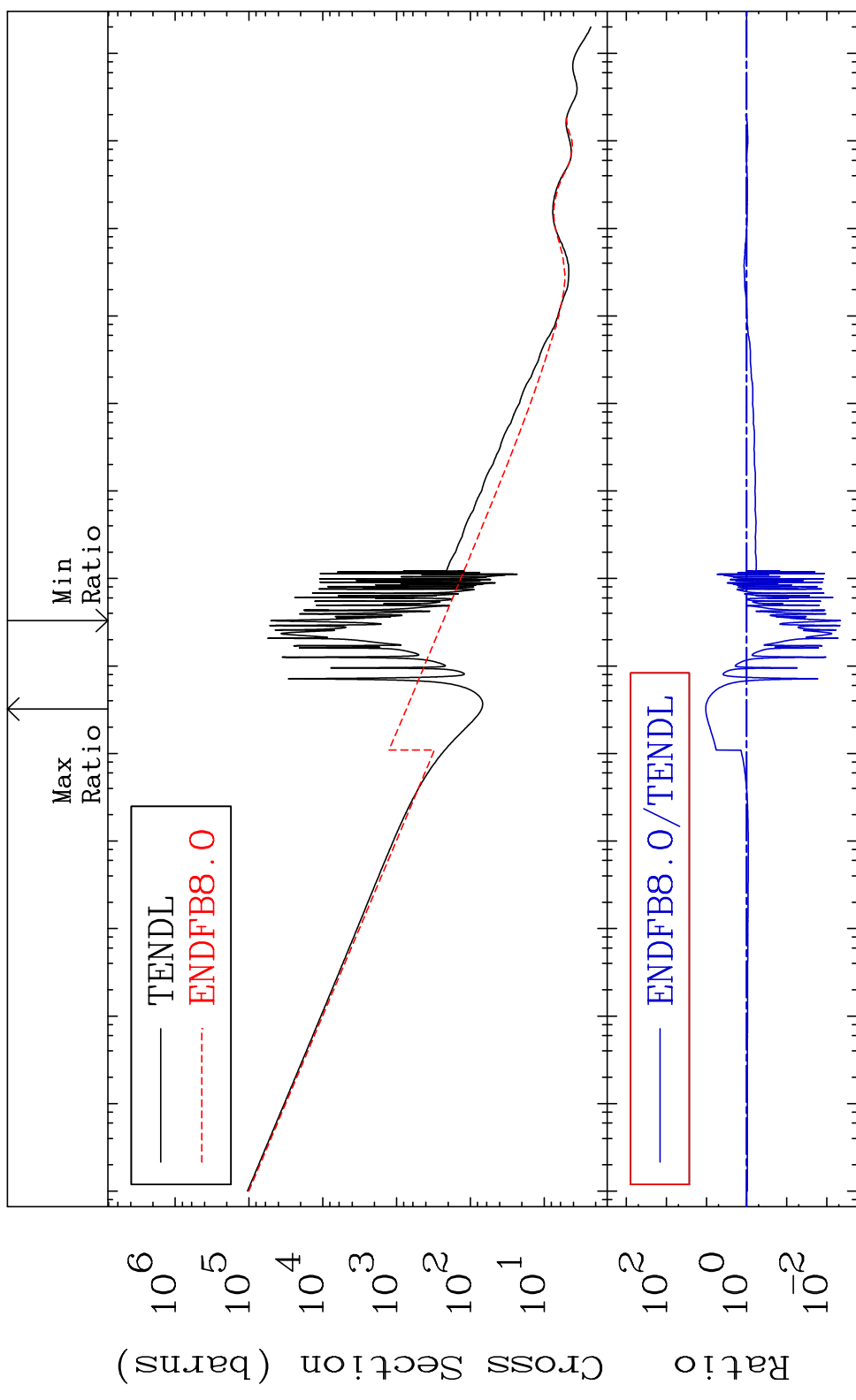
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6152

Total  
Cross Section -99.54 To 943.0 %

61-Pm-148



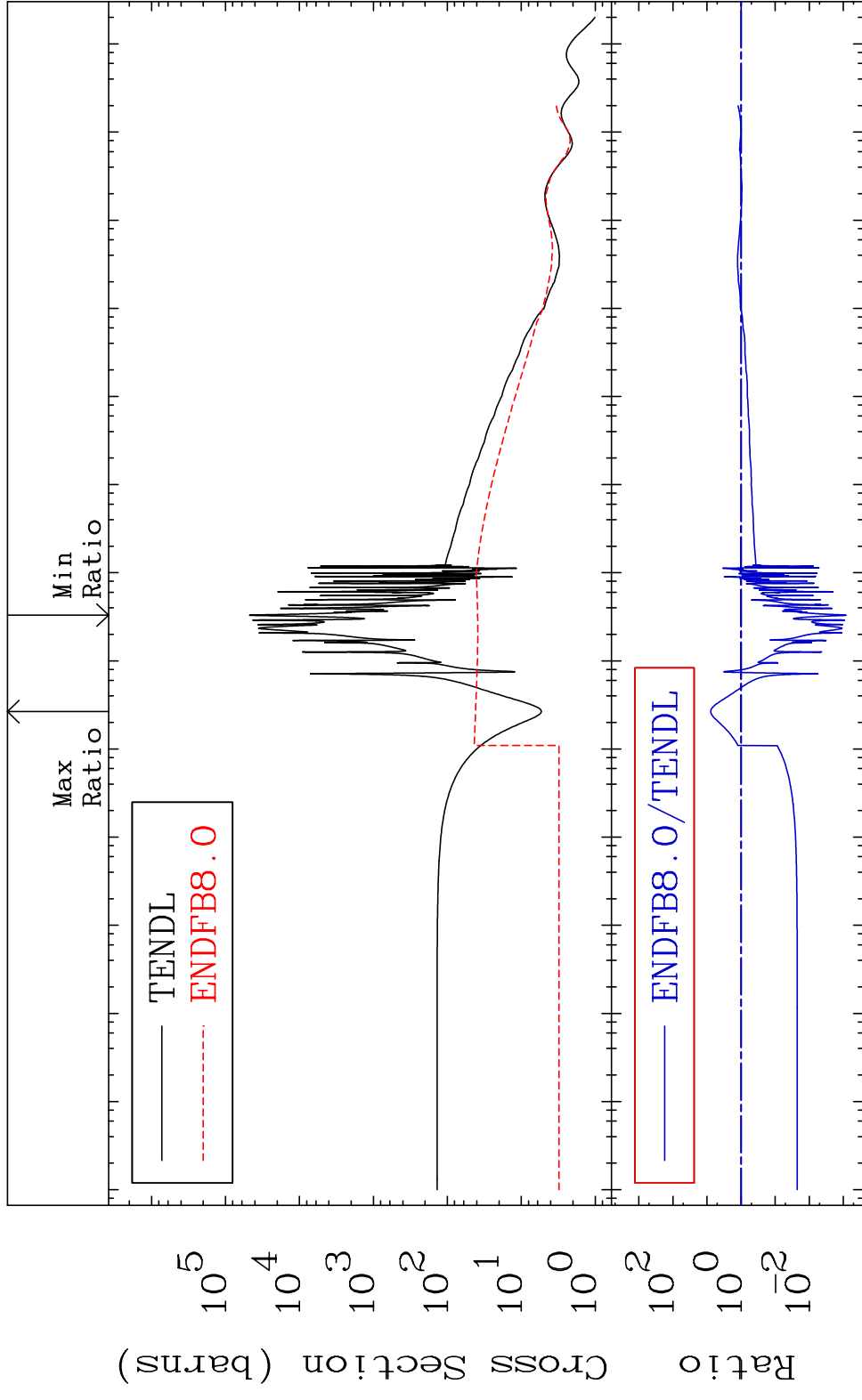
Ratio  
Cross Section (barns)

1 Incident Energy (eV) 61-Pm-148

MAT 6152

Elastic Cross Section -99.92 To 676.8 %

61-Pm-148



2

Incident Energy (eV)

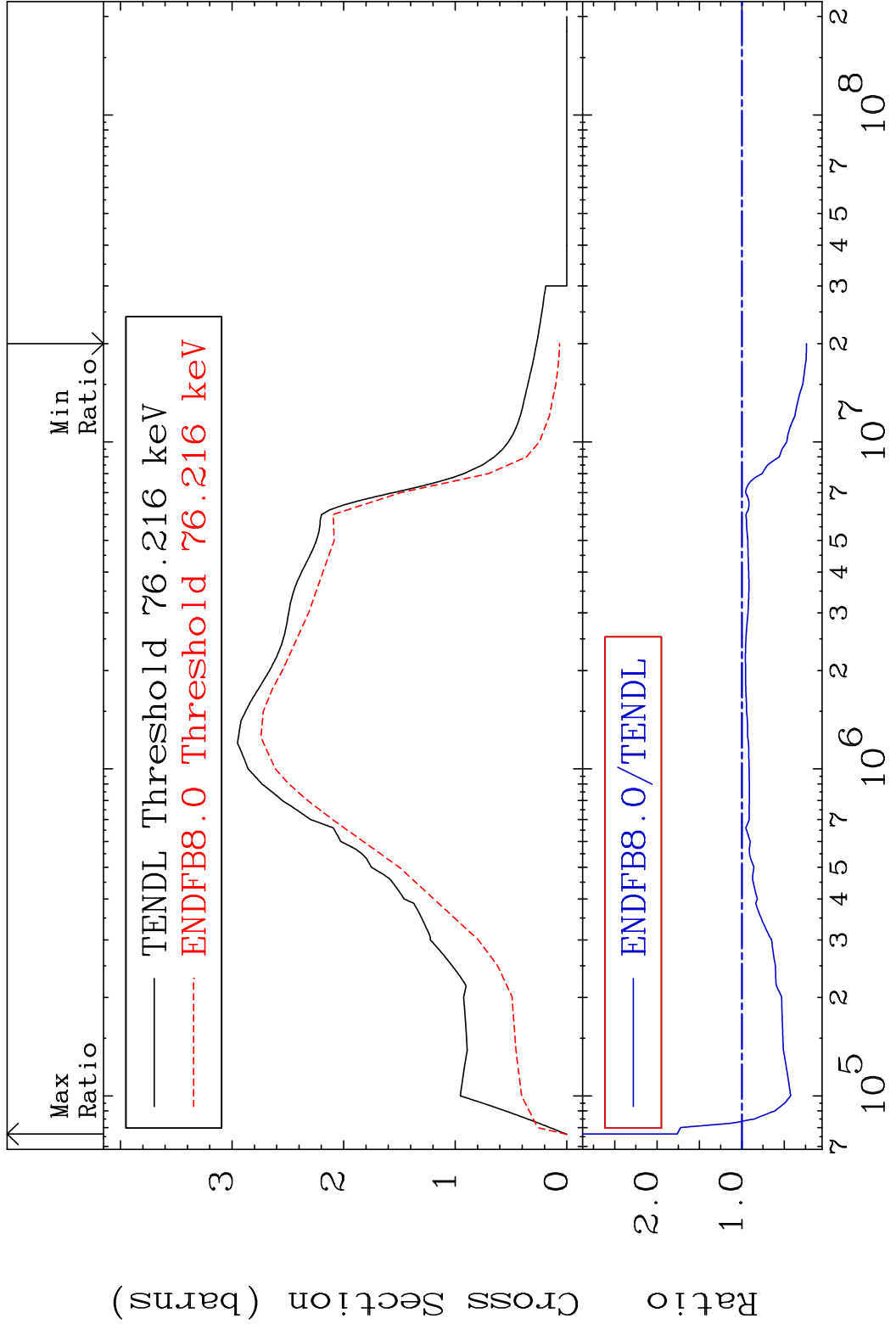
61-Pm-148

MAT 6152

Inelastic

61-Pm-148

Cross Section -76.08 To 76.29 %



3

Incident Energy (eV)

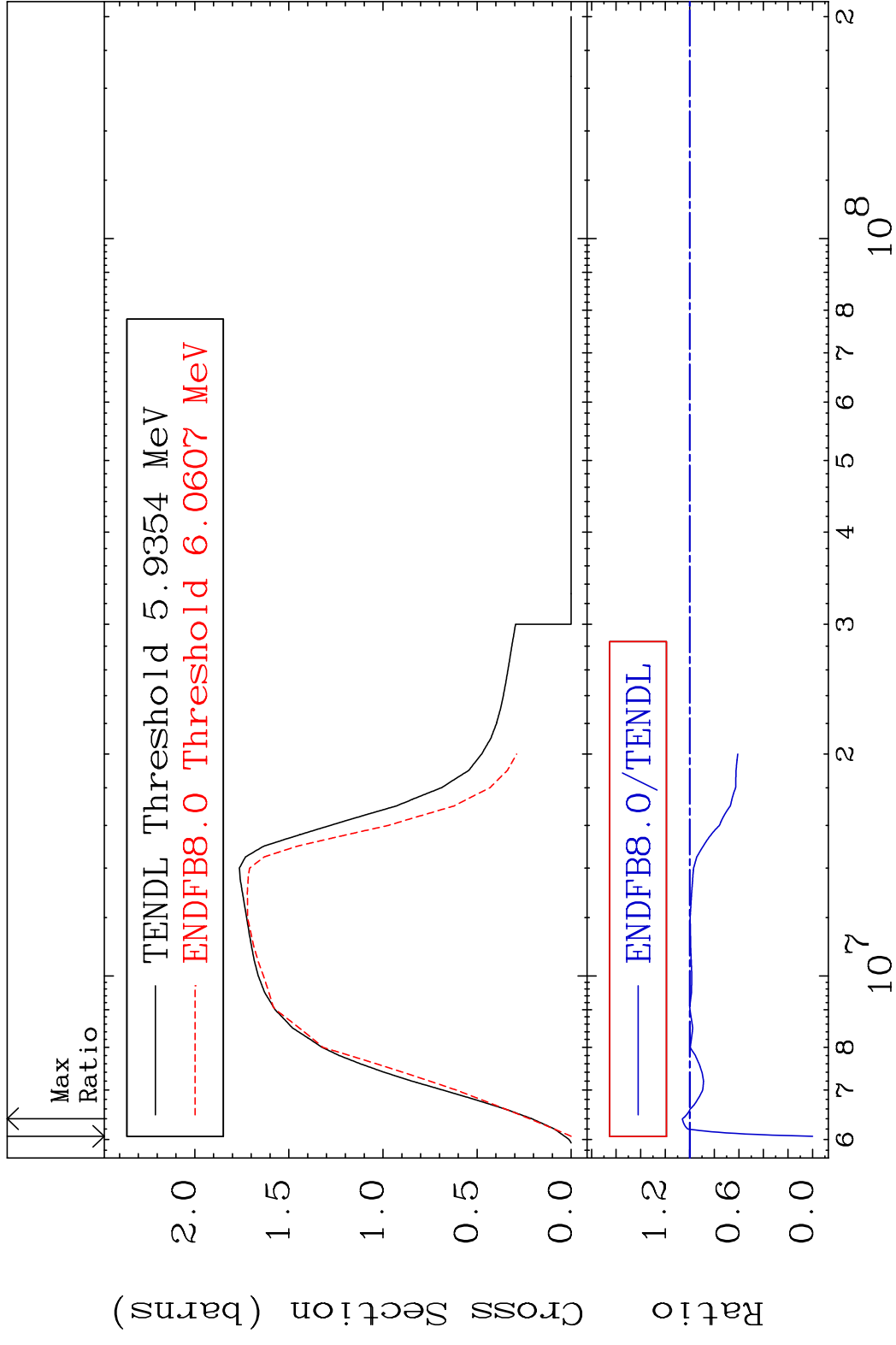
61-Pm-148

MAT 6152

(n,2n)

61-Pm-148

Cross Section -100.0 To 6.047 %



4

Incident Energy (eV)

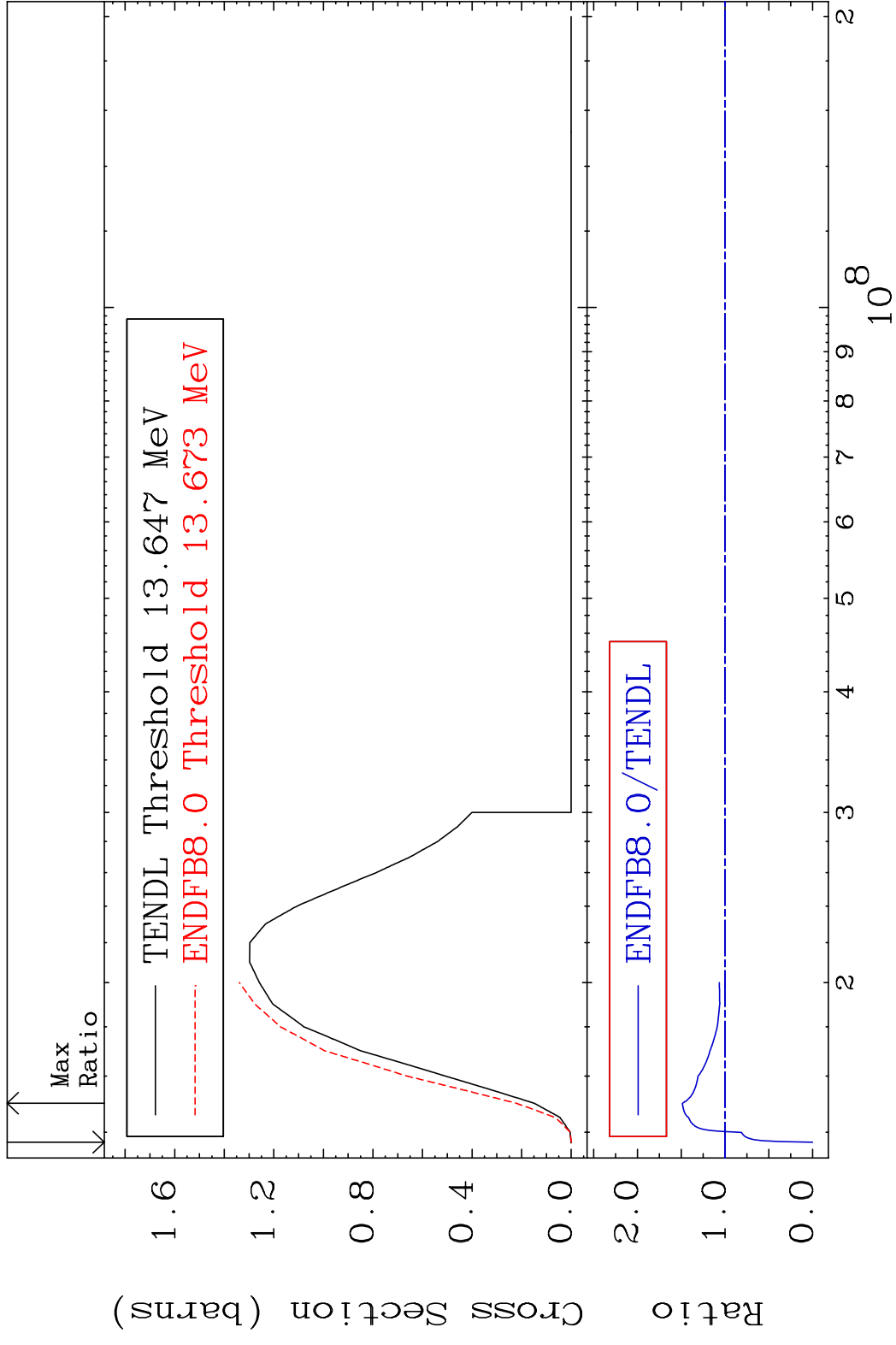
61-Pm-148

MAT 6152

(n,3n)

61-Pm-148

Cross Section -100.0 To 48.68 %



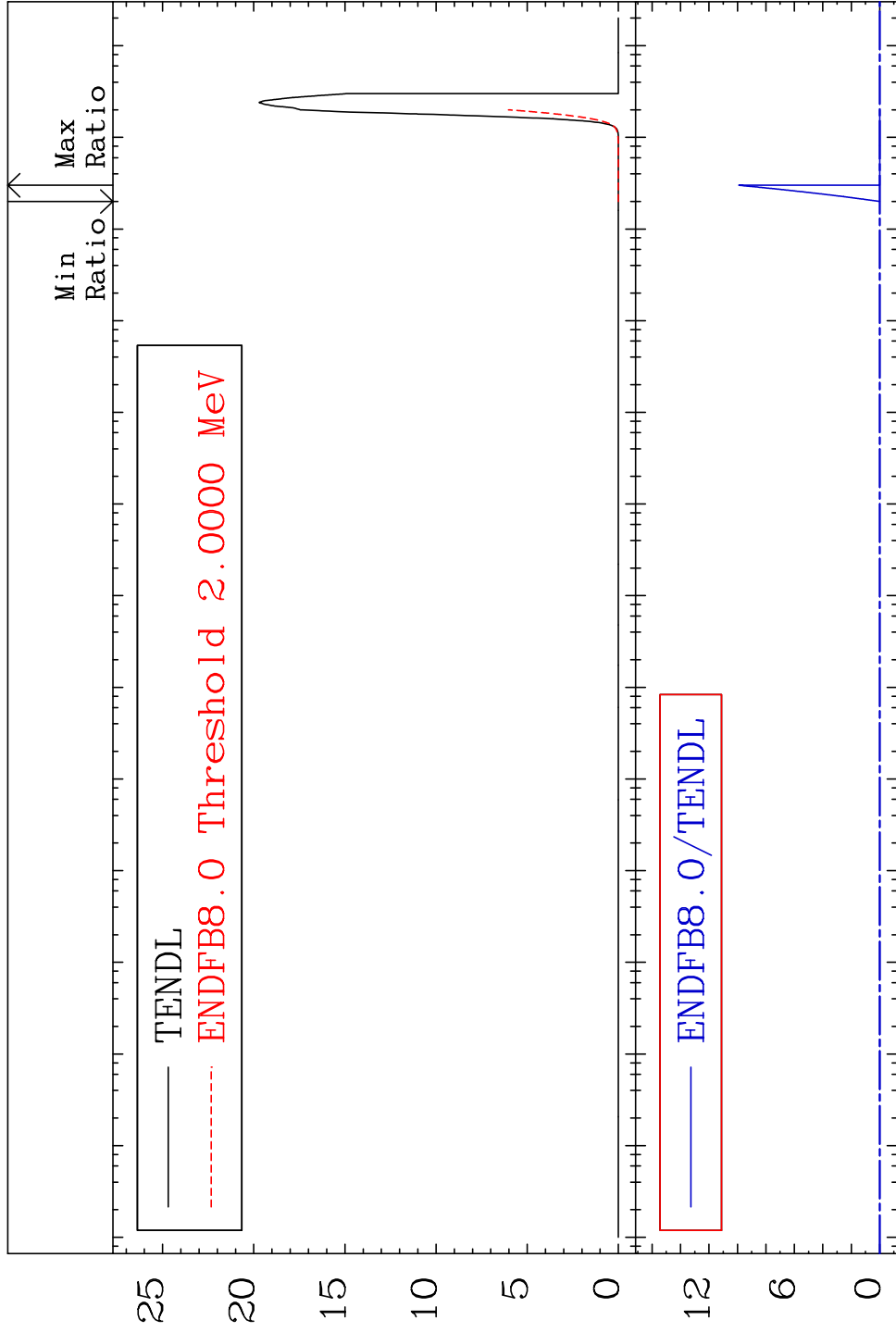
MAT 6152

(n, n')  $\alpha$

61-Pm-148

Cross Section -100.0 To 9999. %

RatioCross Section (milli-barns)



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>

6

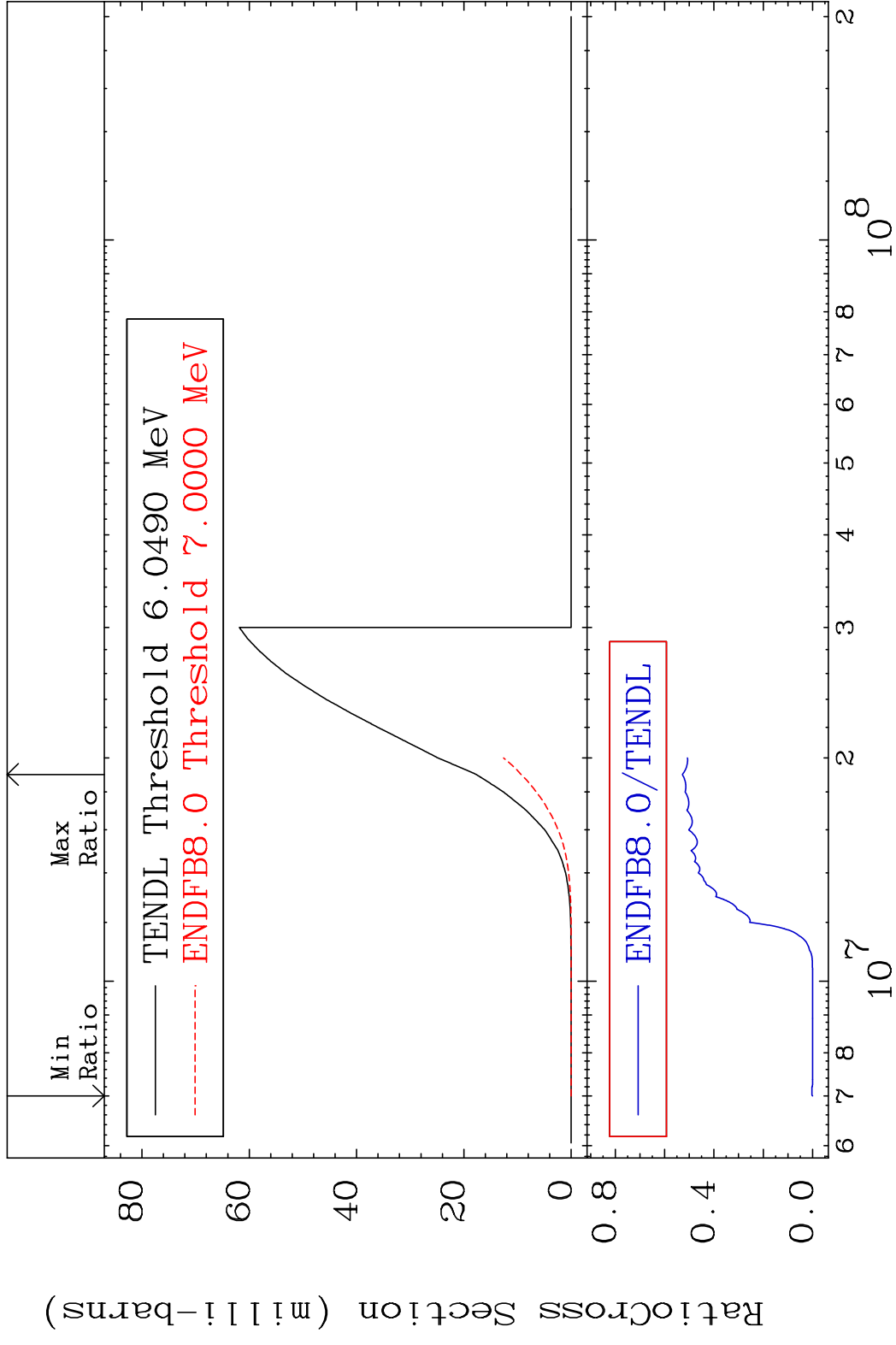
Incident Energy (eV)

61-Pm-148

MAT 6152

(n, n') p 61-Pm-148

Cross Section -100.0 To -47.20%



61-Pm-148

Incident Energy (eV)

7

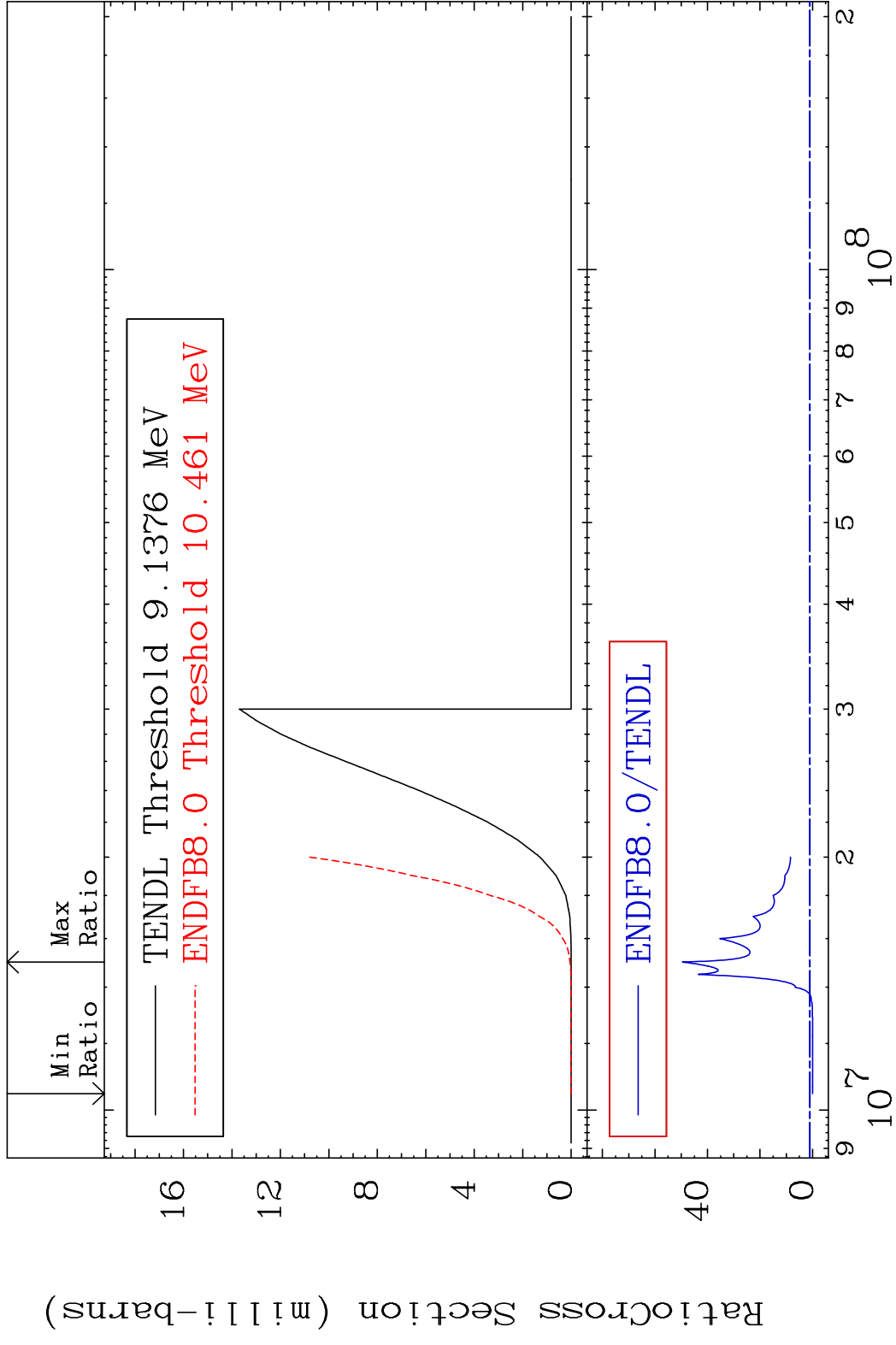


MAT 6152

(n, n') d

61-Pm-148

Cross Section -100.0 To 4857. %



8

Incident Energy (eV)

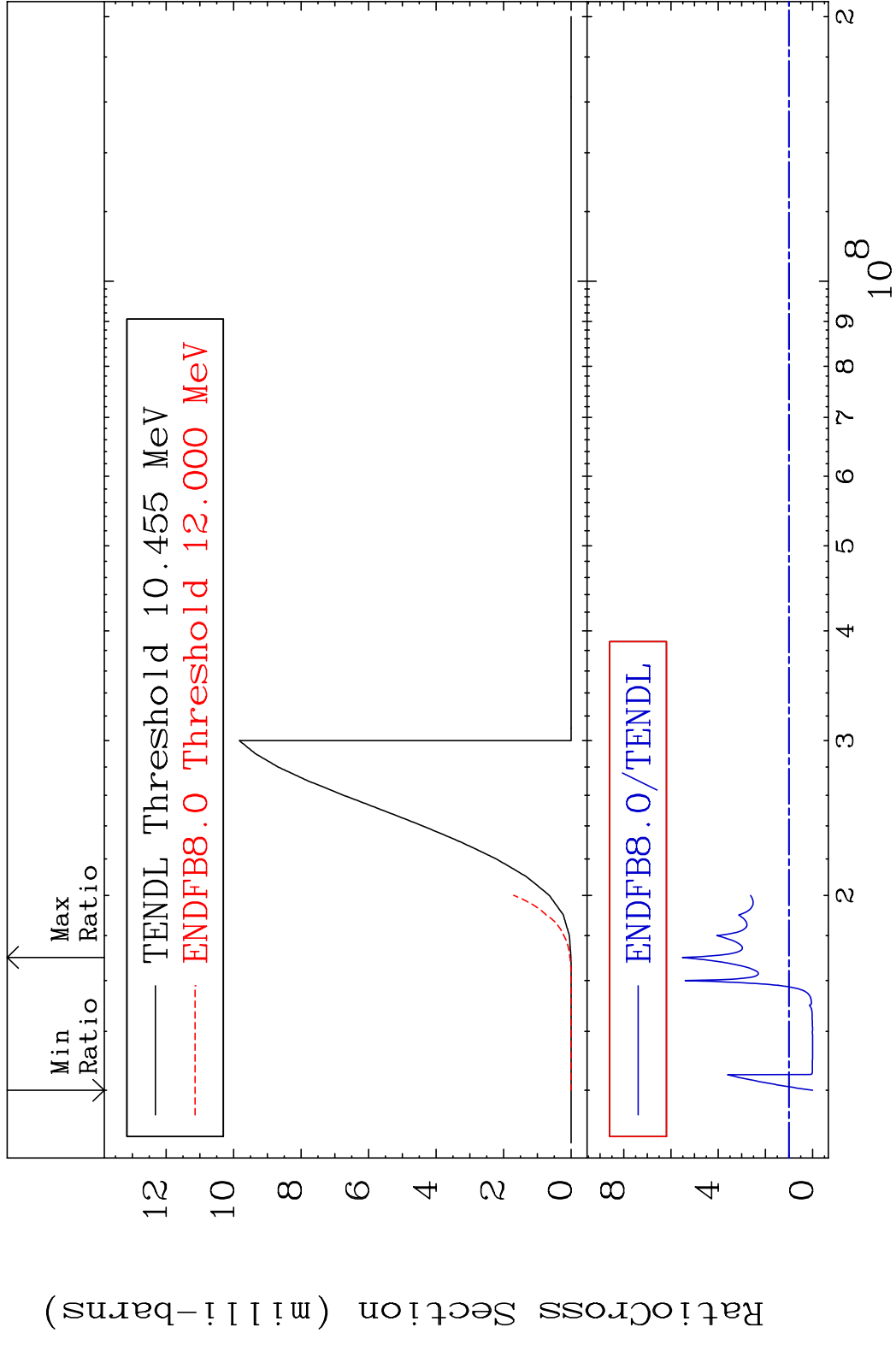
61-Pm-148

MAT 6152

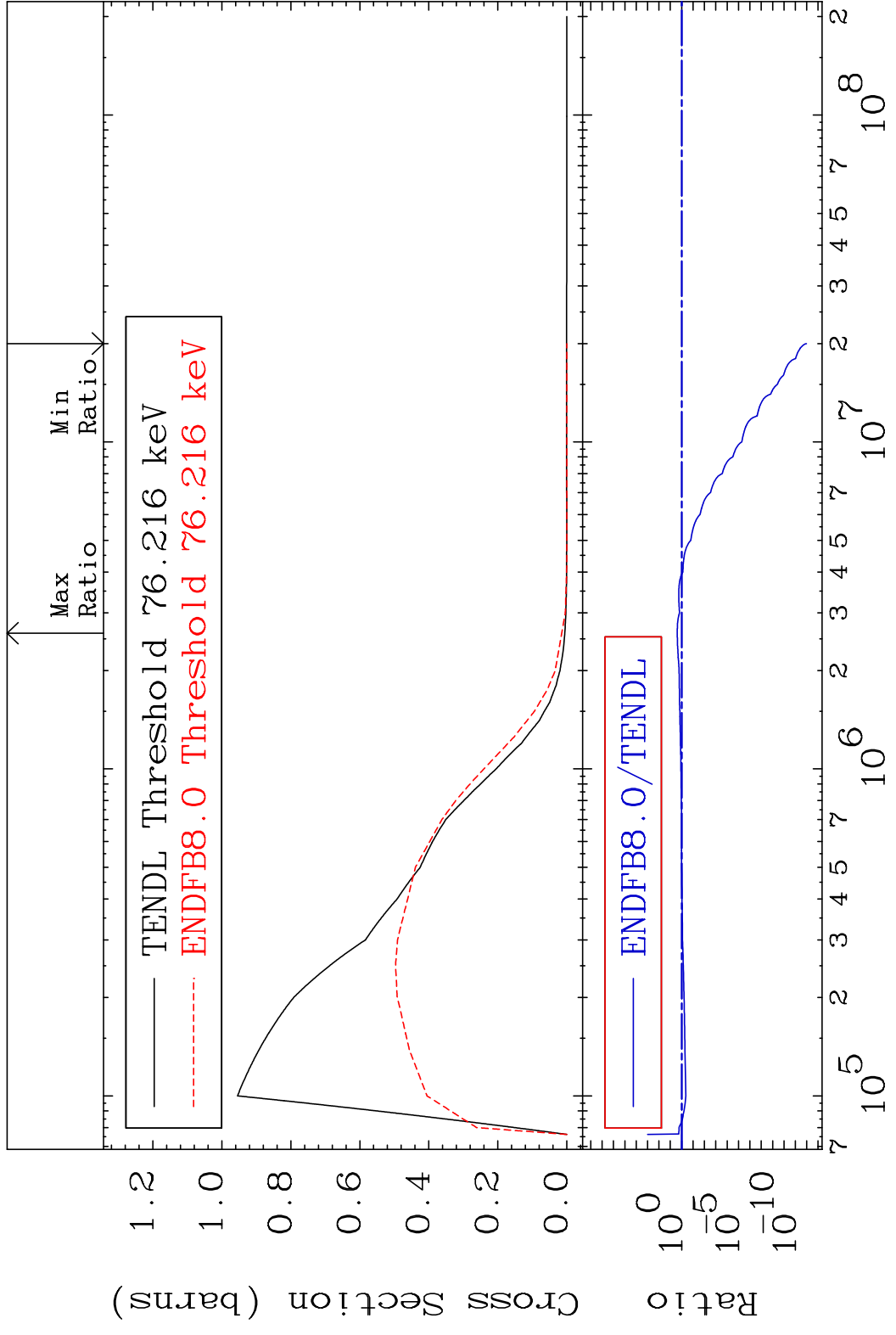
(n, n') t

61-Pm-148

Cross Section -100.0 To 451.7 %

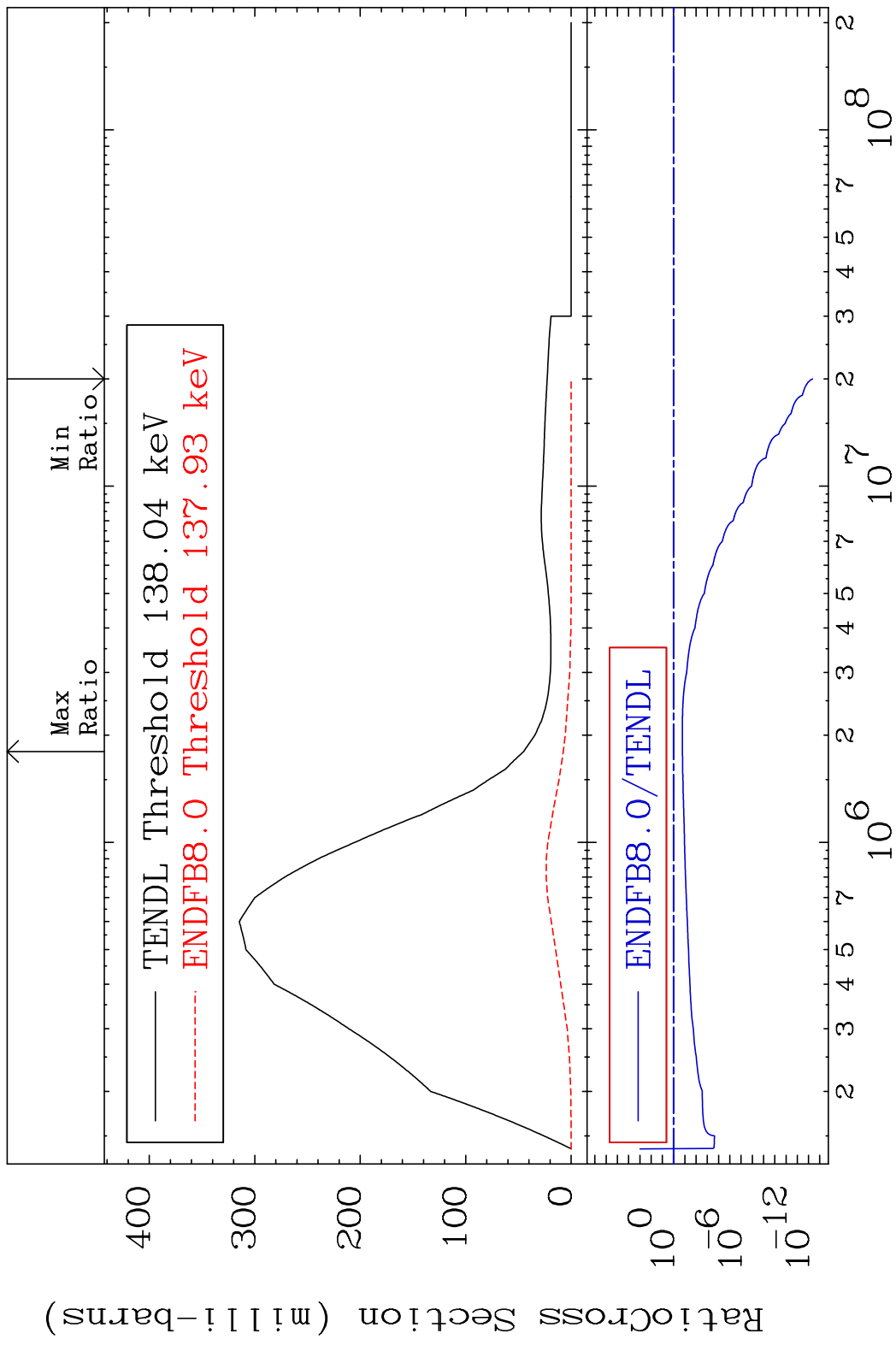


MAT 6152 MT= 51 (n, n') Level 61-Pm-148  
 Cross Section -100.0 To 148.4 %

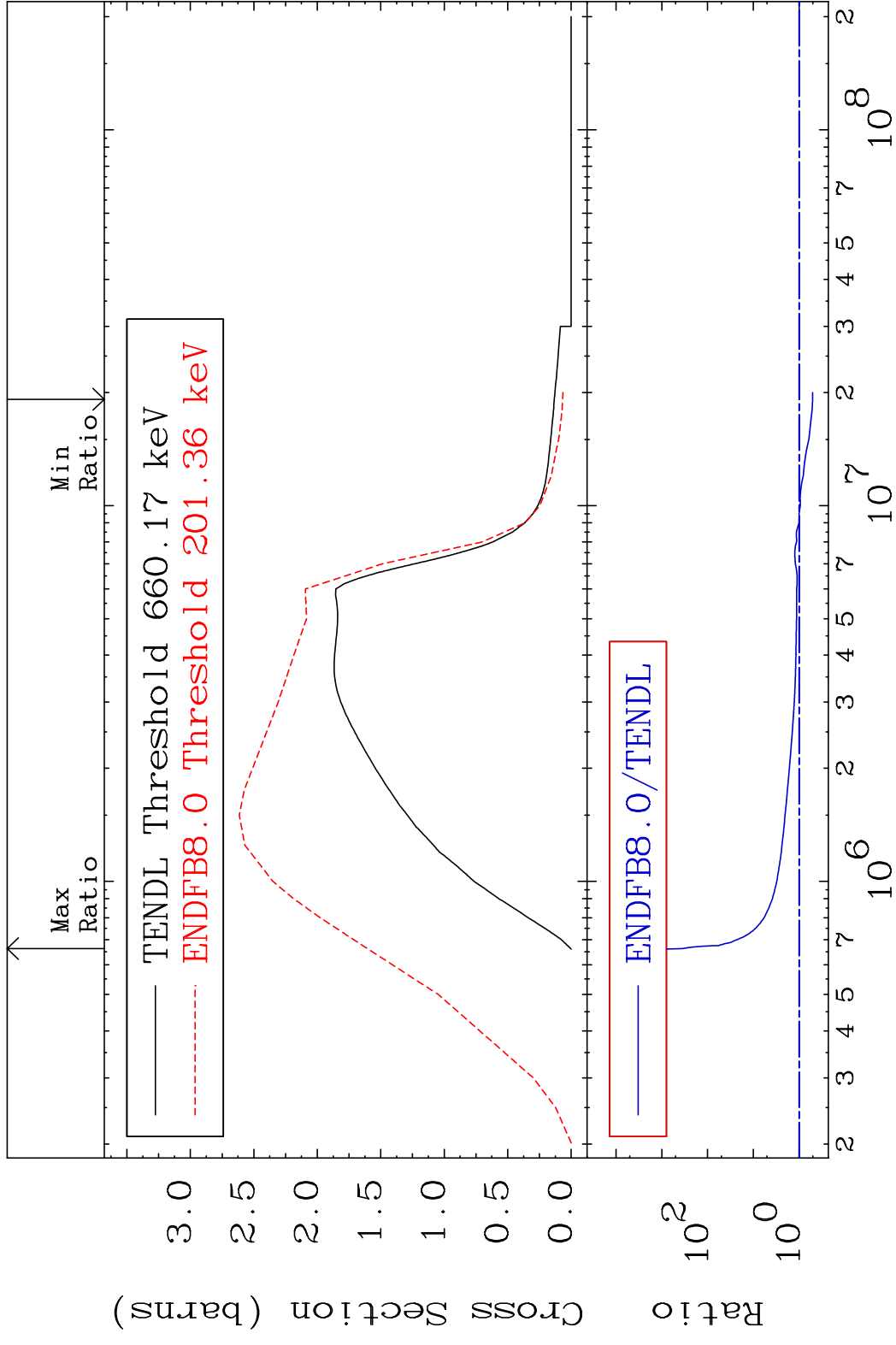


10 Incident Energy (eV) 61-Pm-148

MAT 6152 MT= 52 (n, n') Level 61-Pm-148  
 Cross Section -100.0 To -83.33%



MAT 6152 (n, n') Continuum 61-Pm-148  
 Cross Section -49.33 To 9999. %

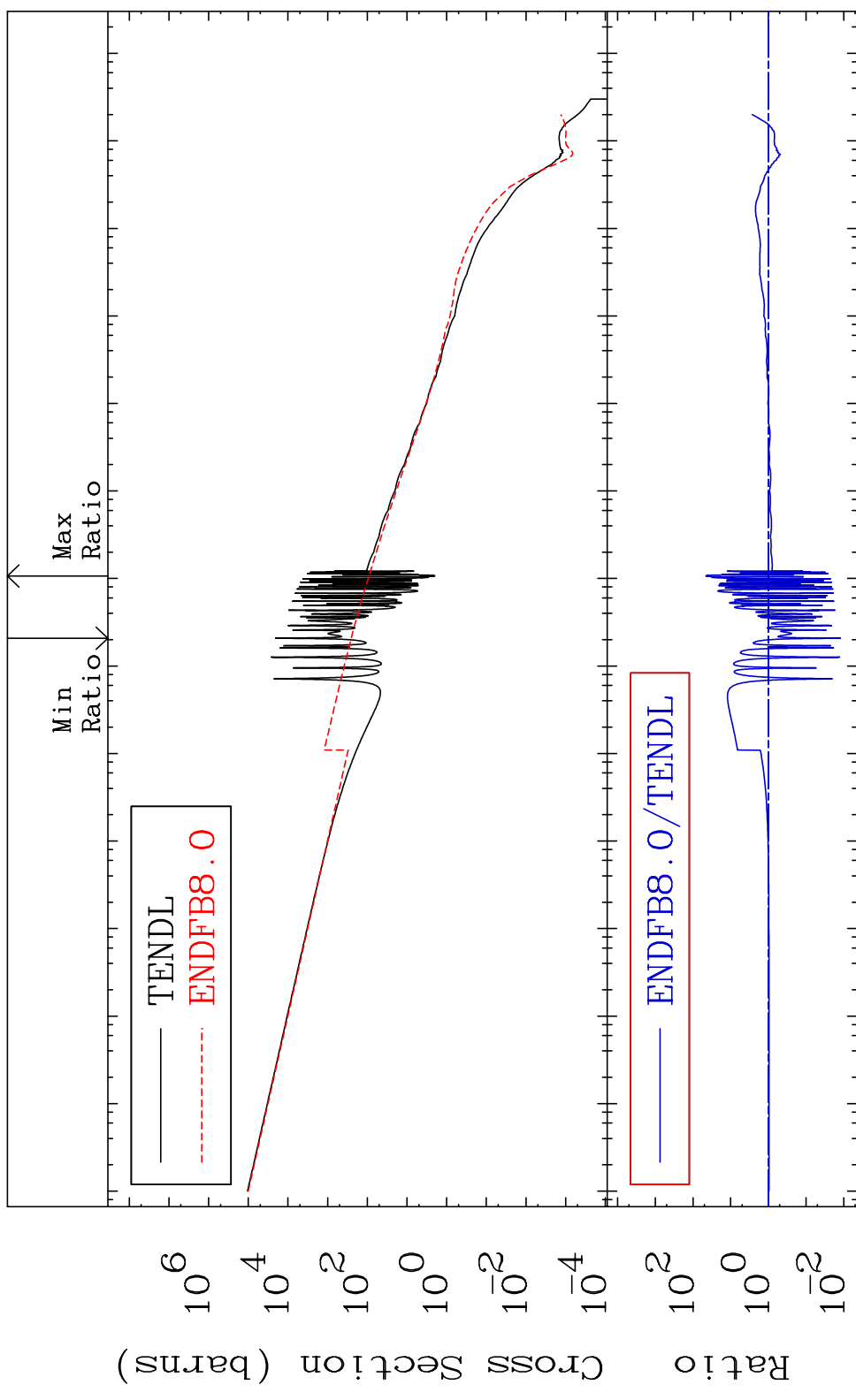


MAT 6152

(n,  $\gamma$ )

61-Pm-148

Cross Section -98.77 To 4475. %

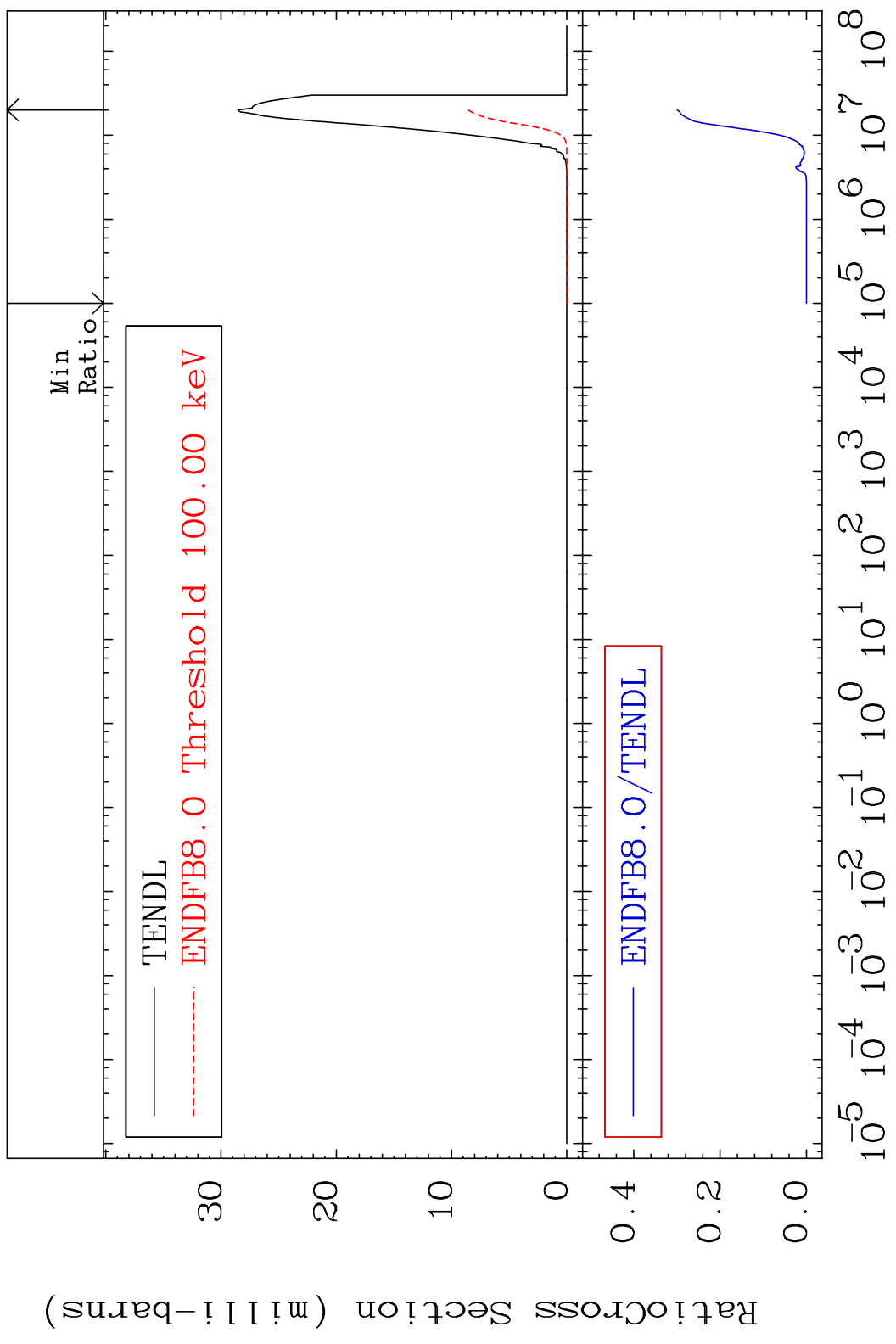


MAT 6152

(n, p)

61-Pm-148

Cross Section -100.0 To -70.07%

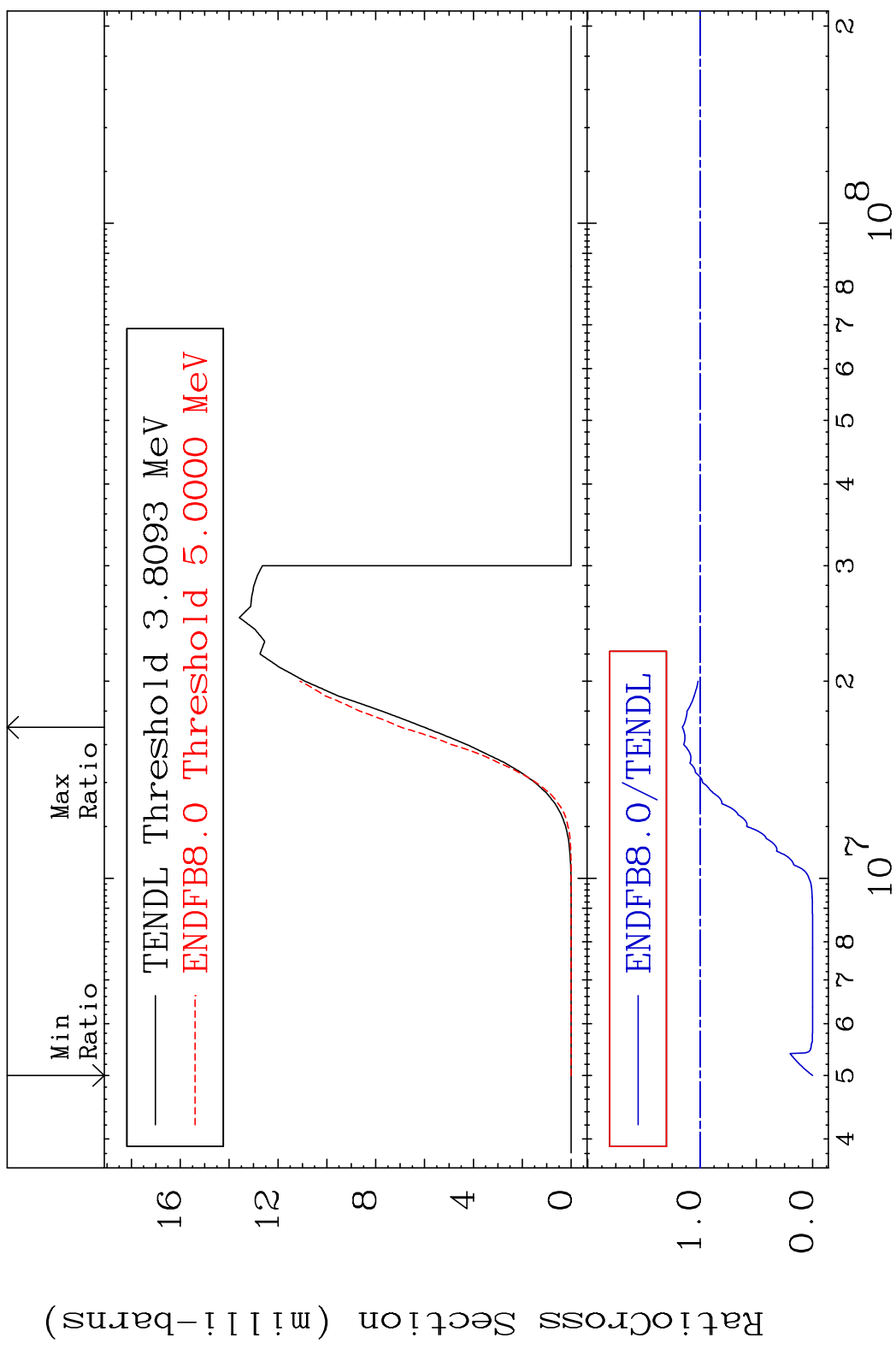


MAT 6152

(n, d)

61-Pm-148

Cross Section -100.0 To 15.83 %



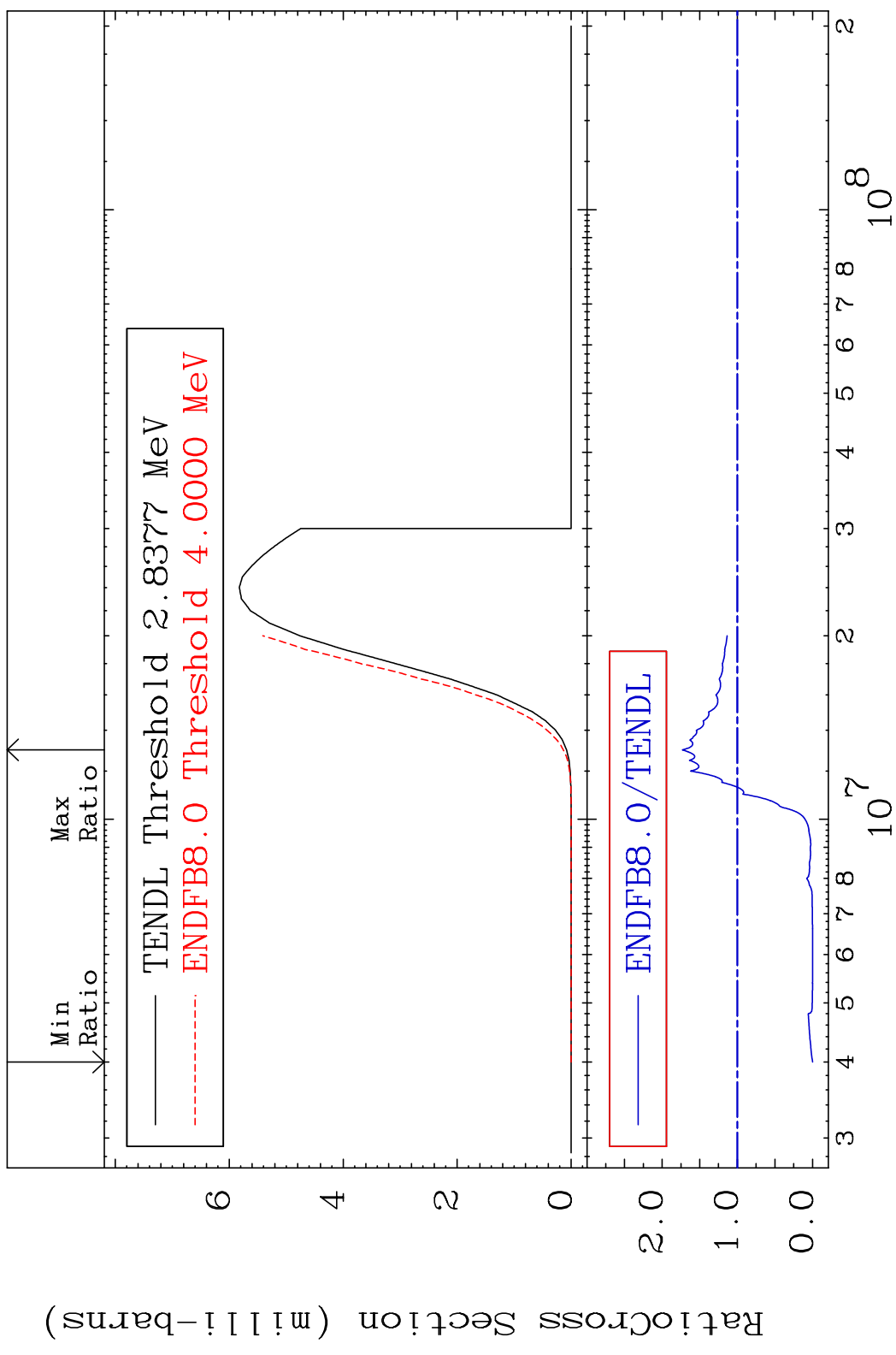


MAT 6152

(n, t)

61-Pm-148

Cross Section -100.0 To 73.10 %

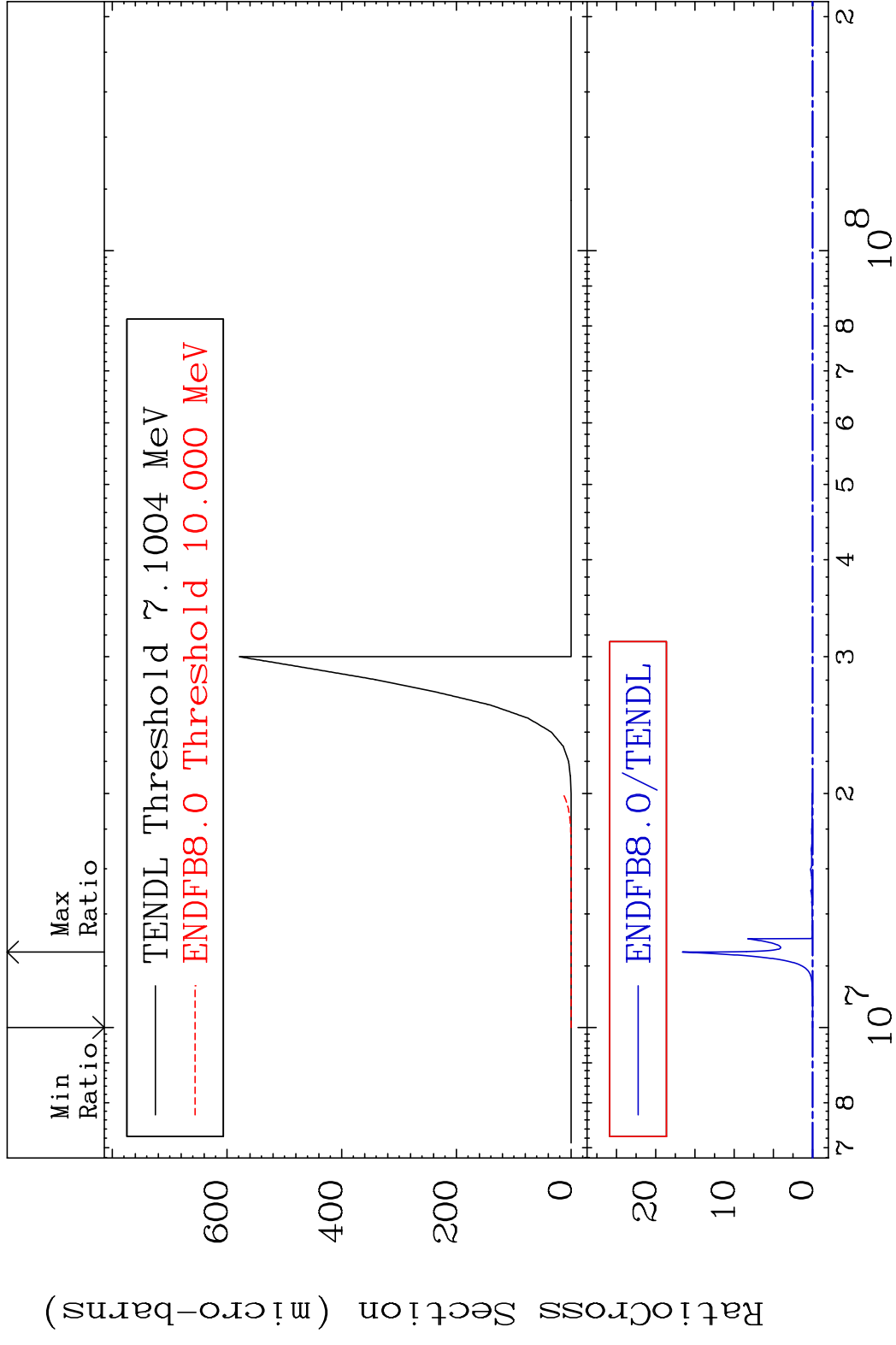


MAT 6152

(n, He-3)

61-Pm-148

Cross Section -100.0 To 9999. %



17

Incident Energy (eV)

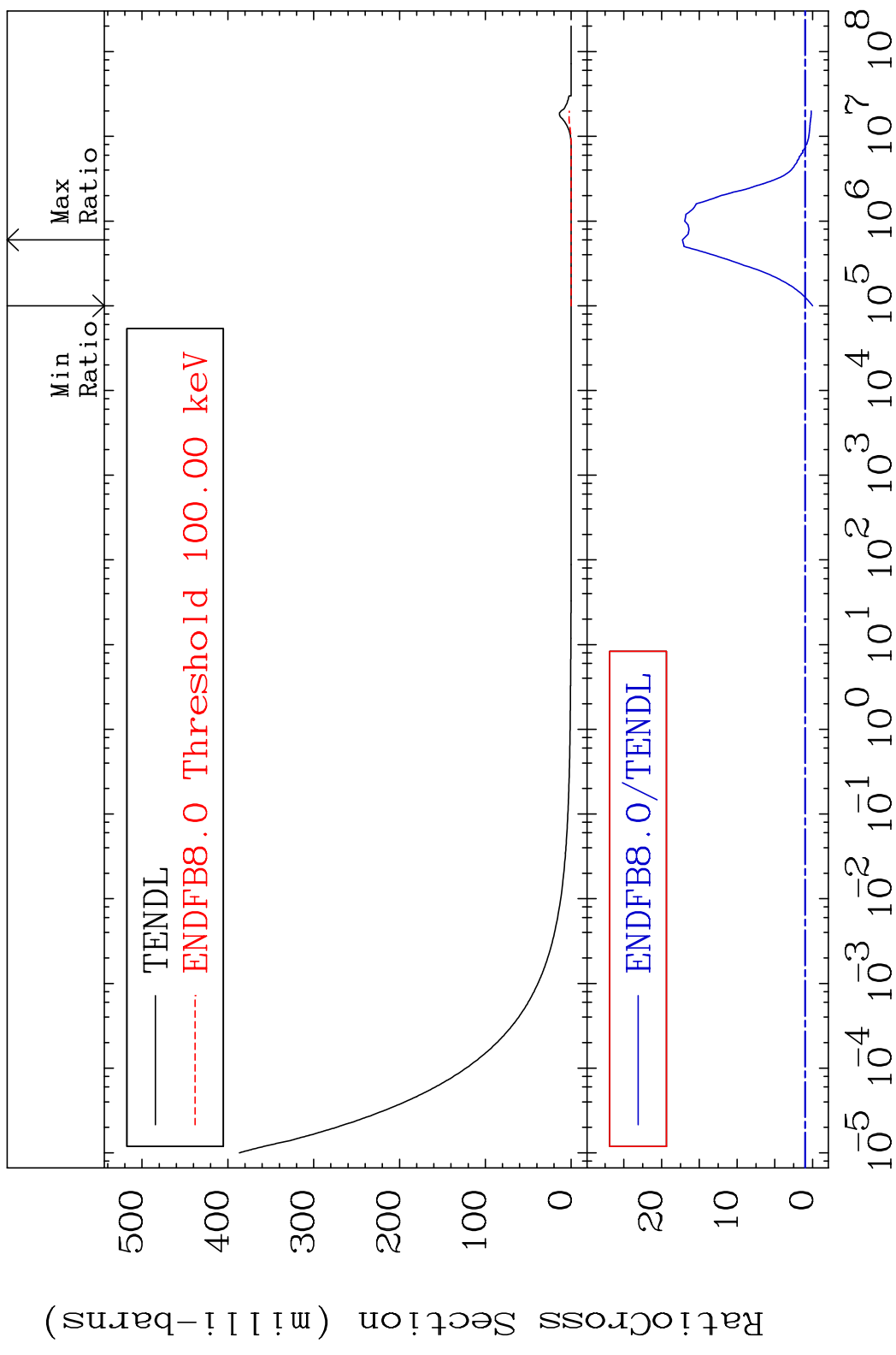
61-Pm-148

MAT 6152

(n,  $\alpha$ )

61-Pm-148

Cross Section -100.0 To 1625. %

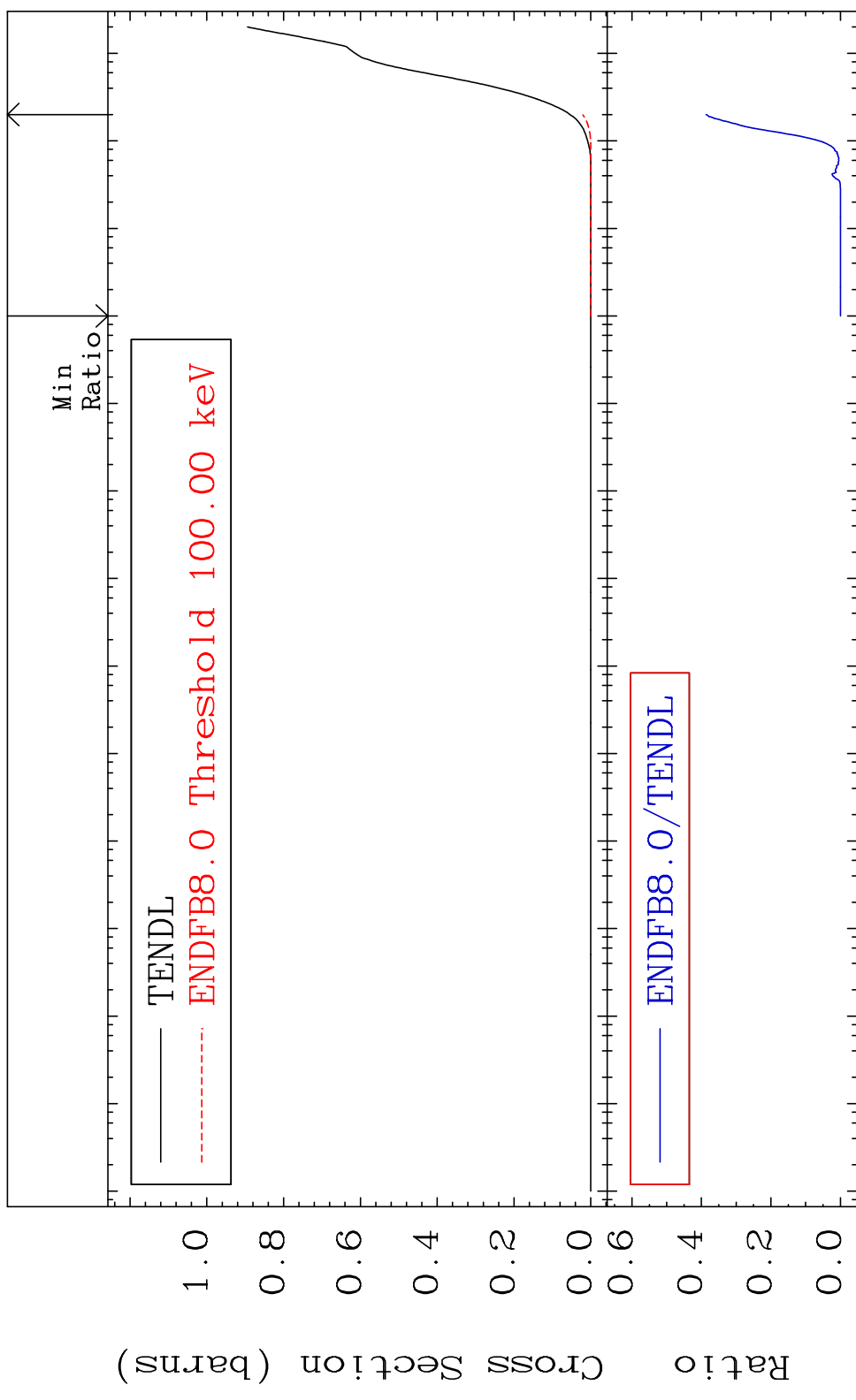


MAT 6152

Hydrogen Production

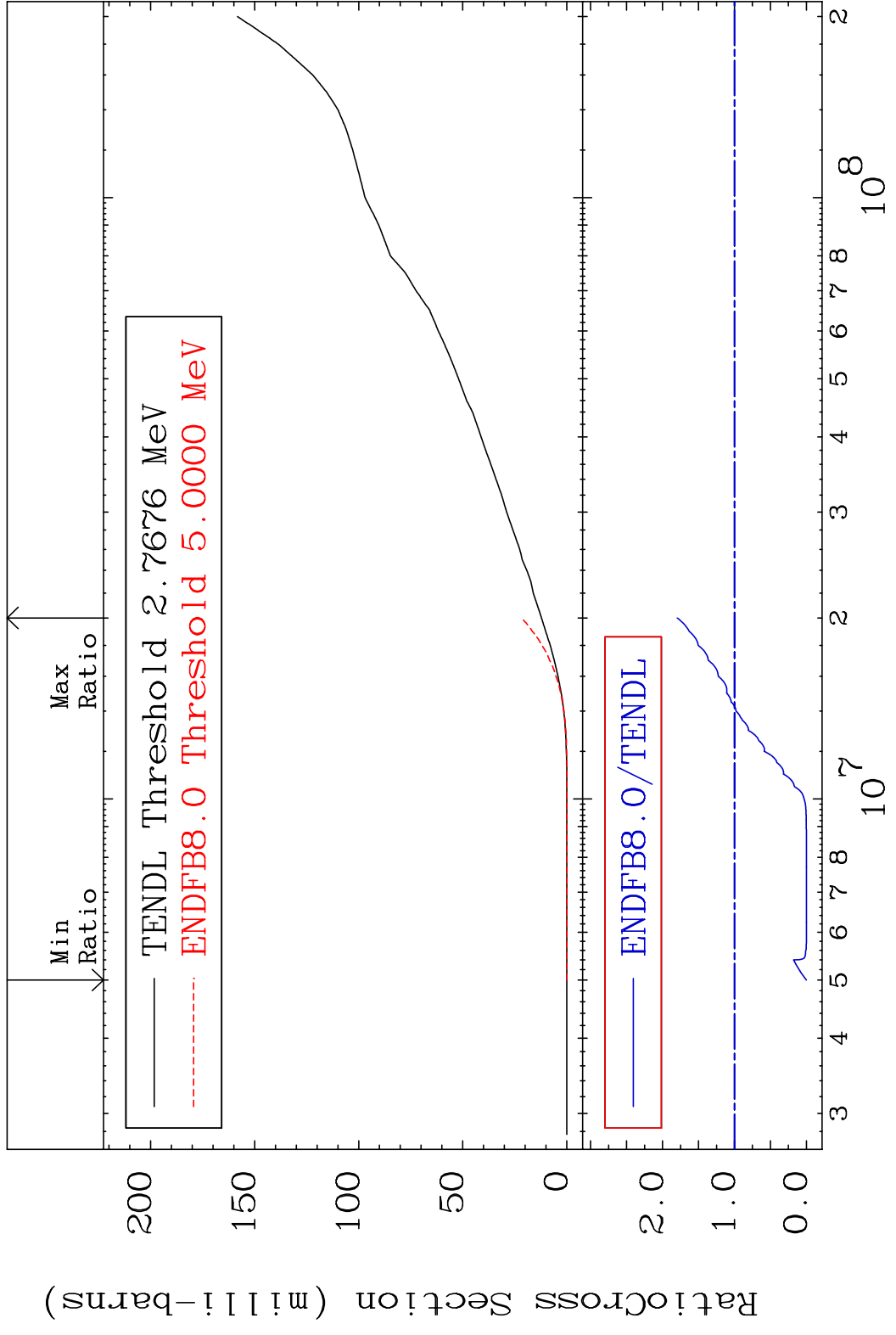
61-Pm-148

Cross Section -100.0 To -61.25%



MAT 6152

Deuterium Production 61-Pm-148  
Cross Section -100.0 To 79.67 %

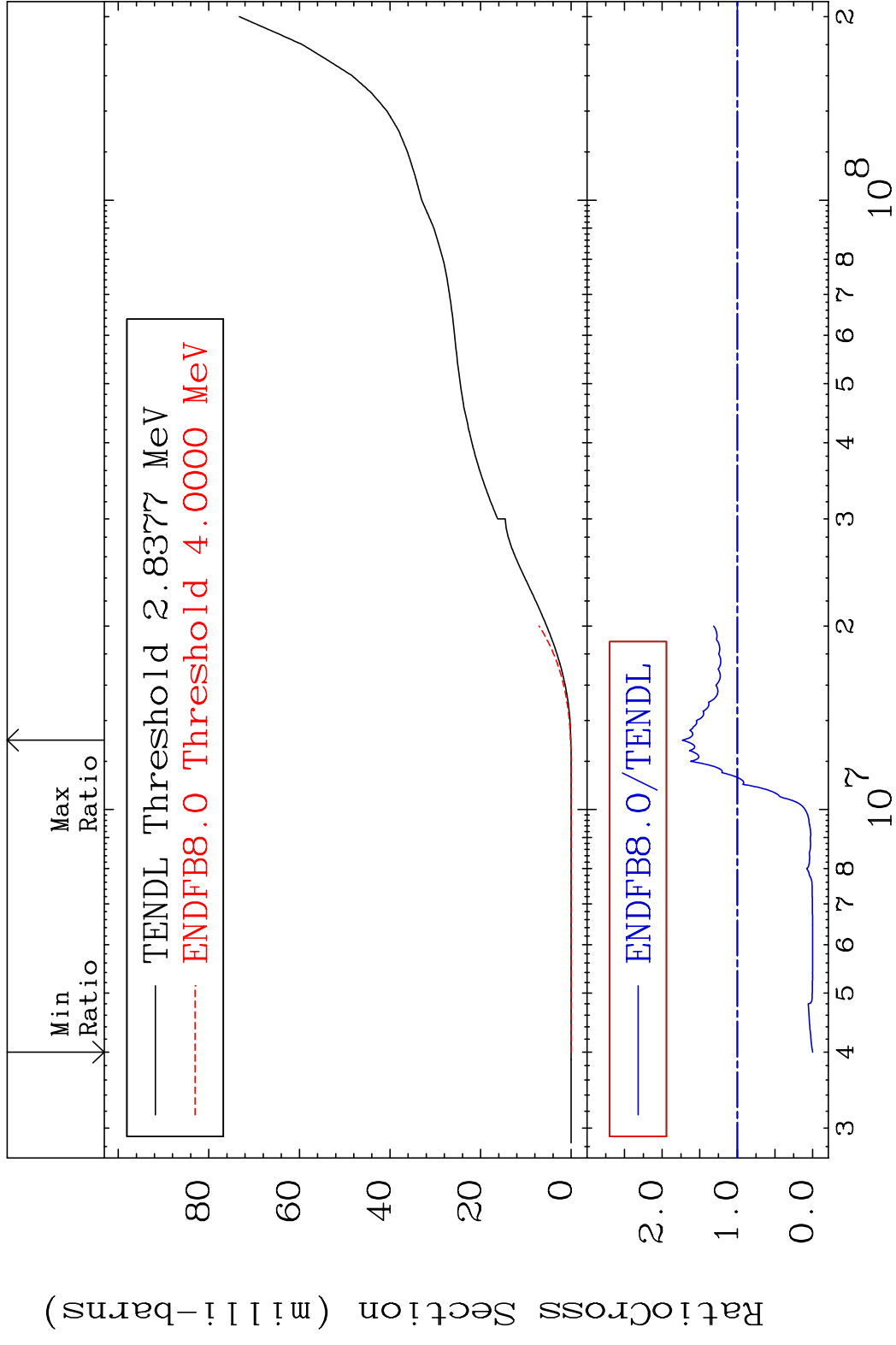


20

61-Pm-148

MAT 6152

Tritium Production 61-Pm-148  
Cross Section -100.0 To 73.10 %

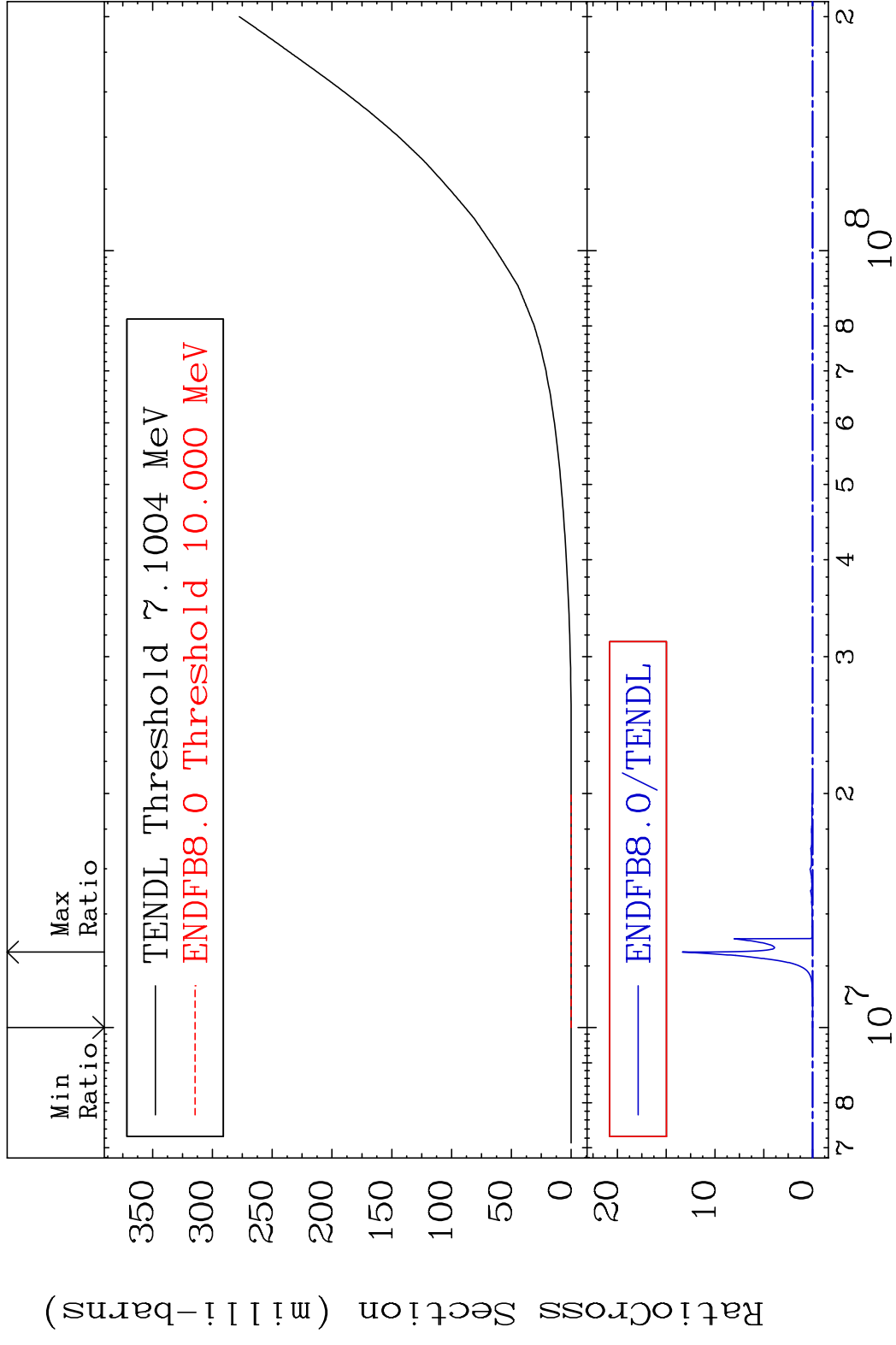


MAT 6152

He-3 Production

61-Pm-148

Cross Section -100.0 To 9999. %

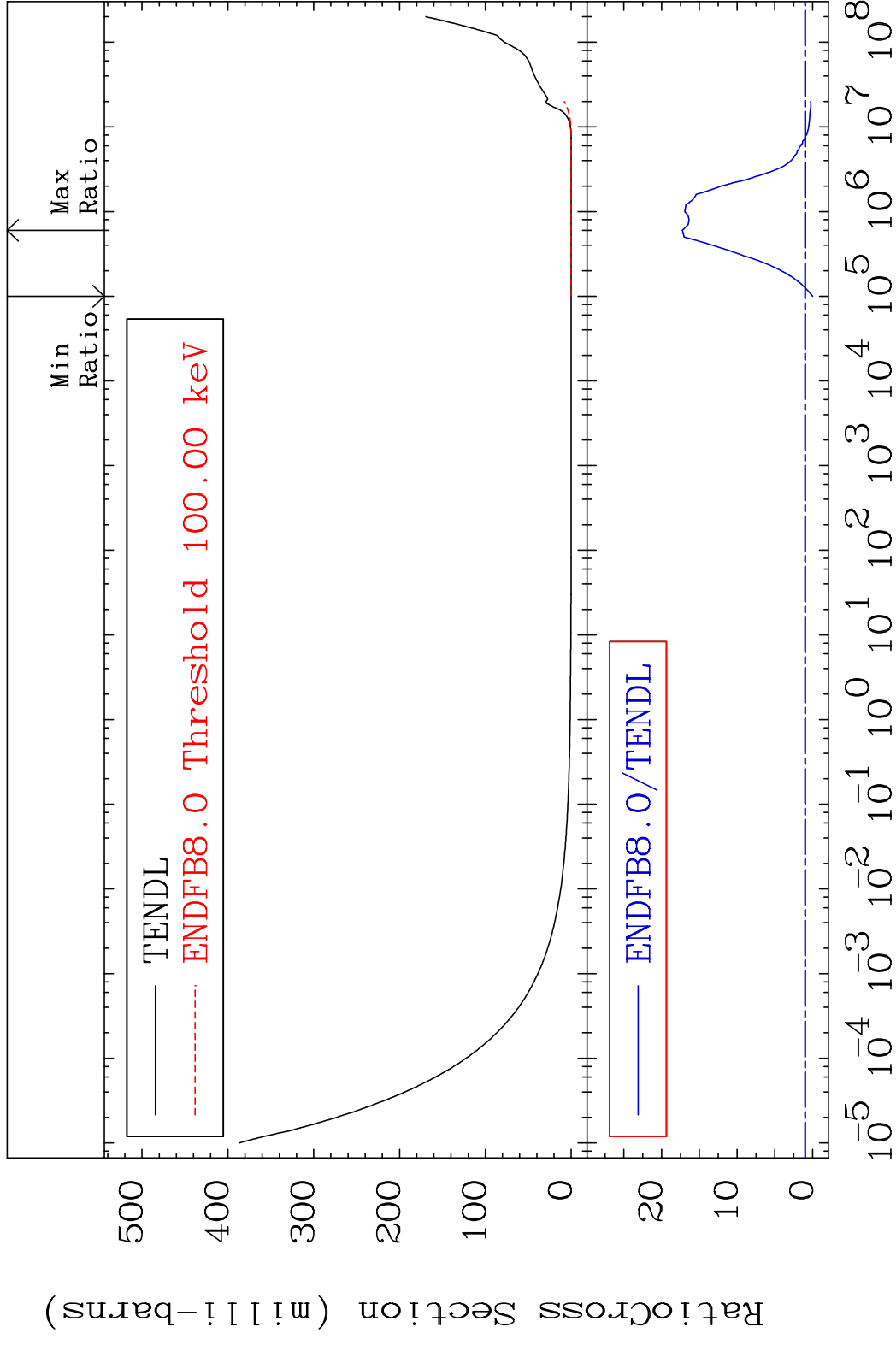


MAT 6152

He-4 Production

61-Pm-148

Cross Section -100.0 To 1625. %

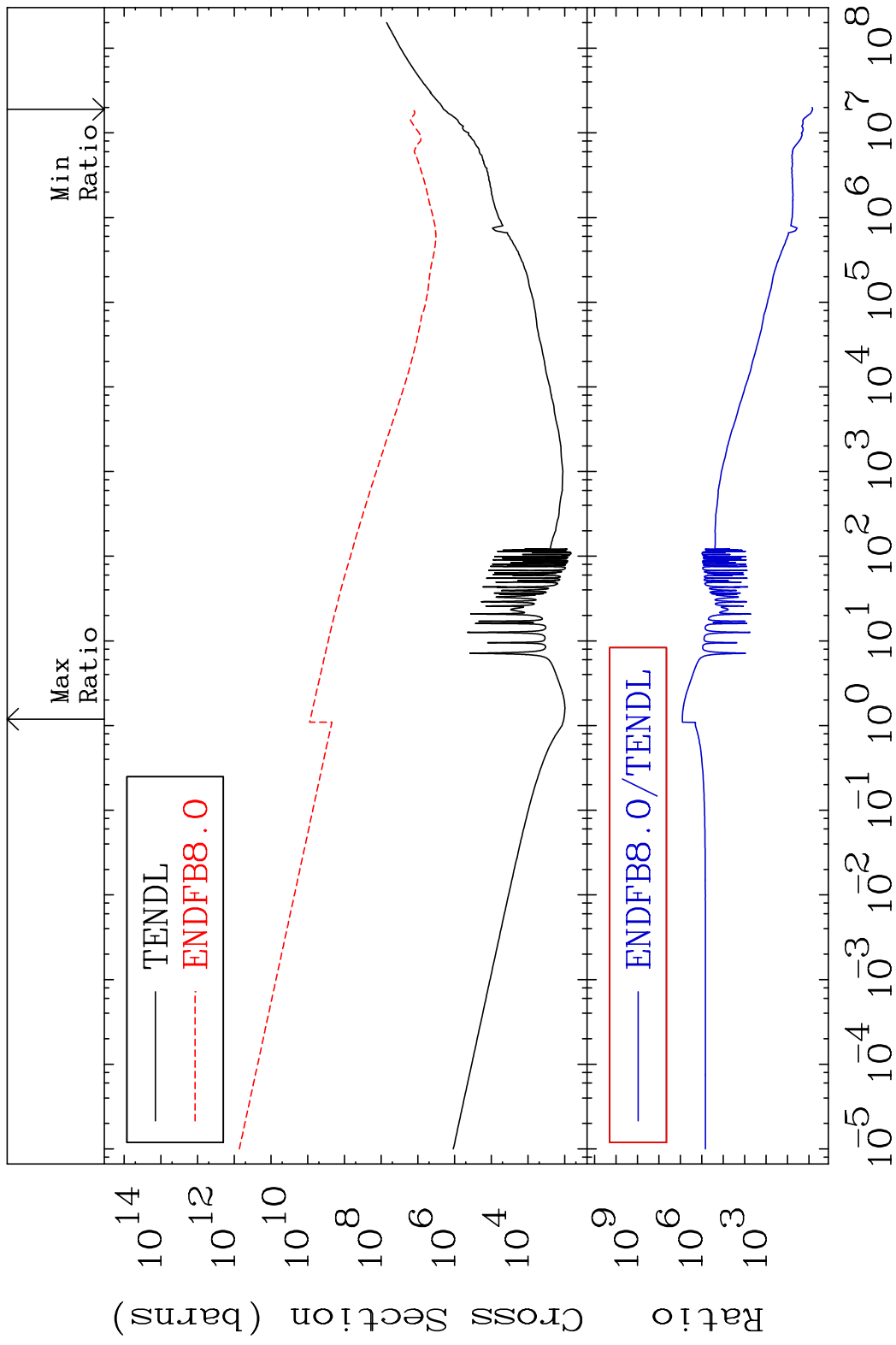


23

61-Pm-148



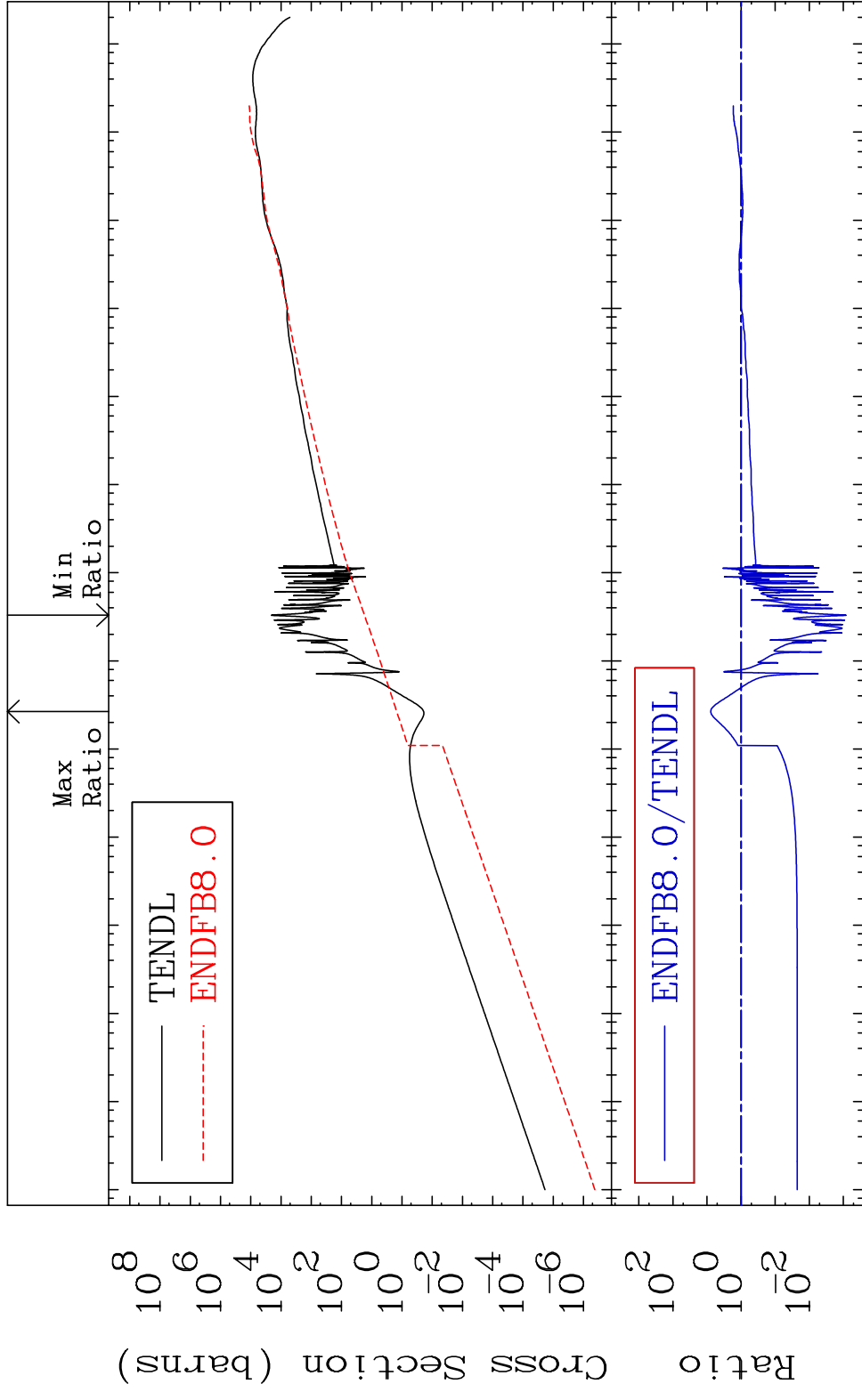
MAT 6152 Kerma total (eV-barns) 61-Pm-148  
 Cross Section 582.4 To 9999. %



MAT 6152

Kerma elastic  
Cross Section

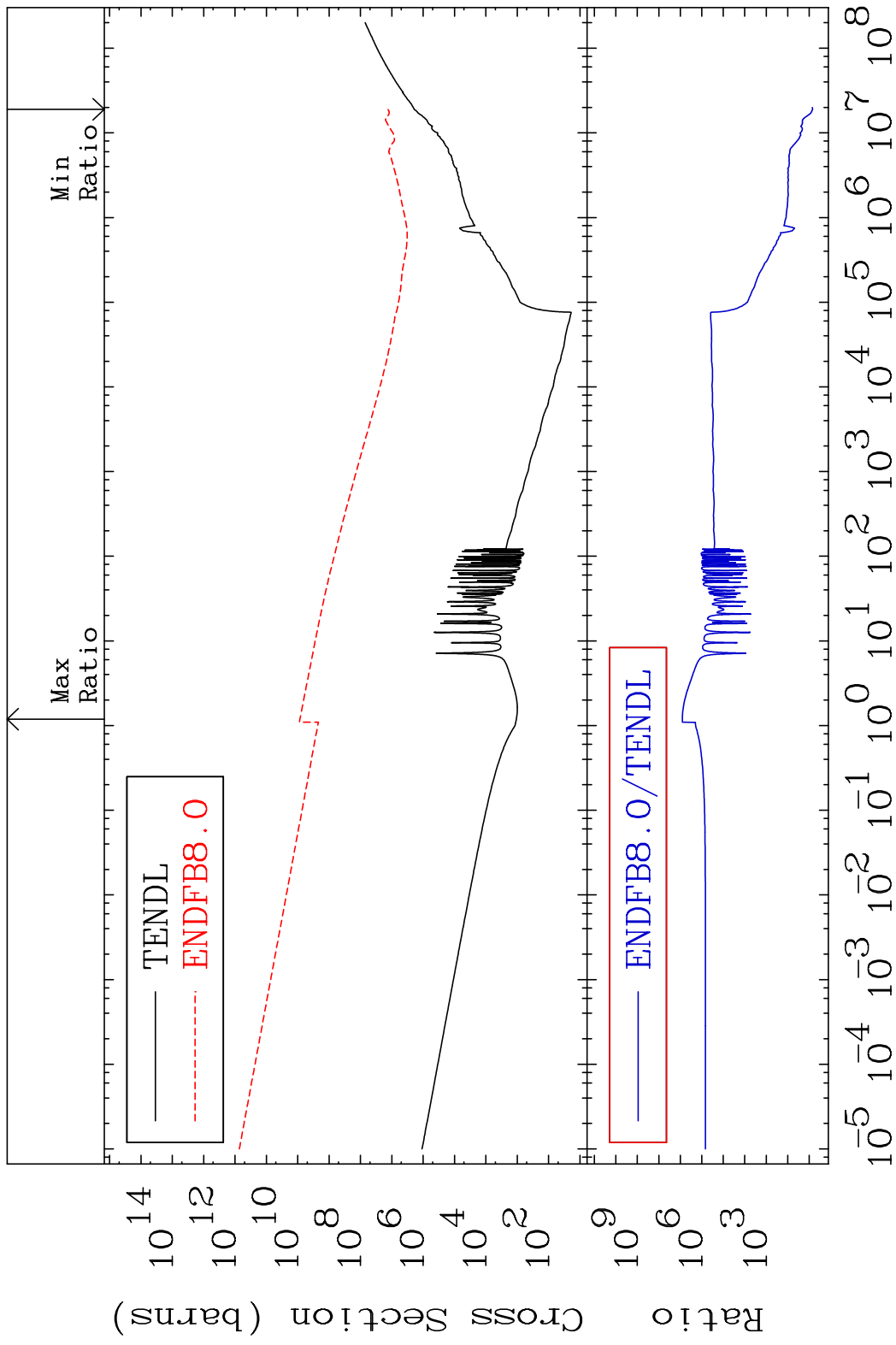
61-Pm-148  
-99.92 To 676.8 %



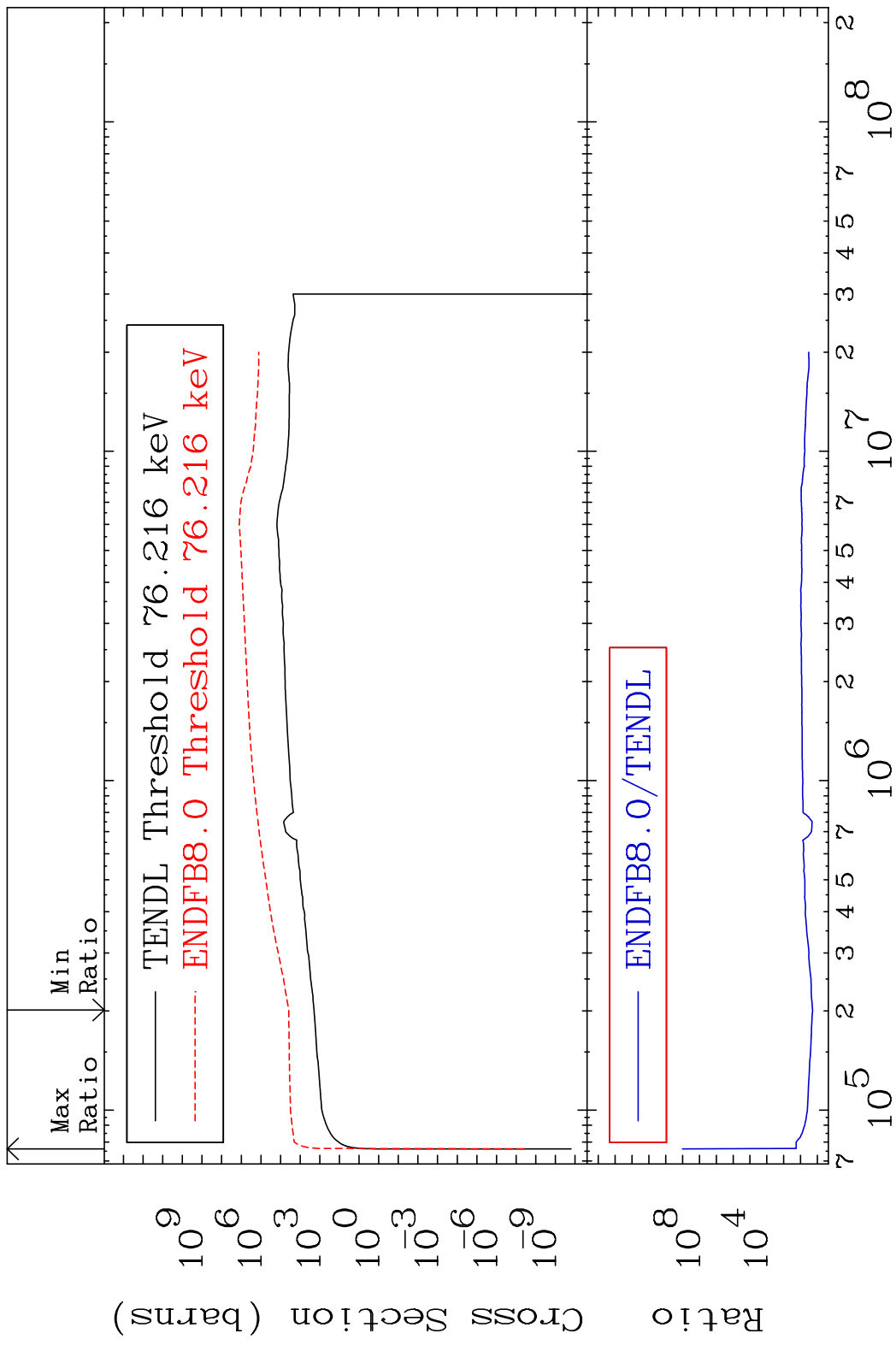
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

Incident Energy (eV)

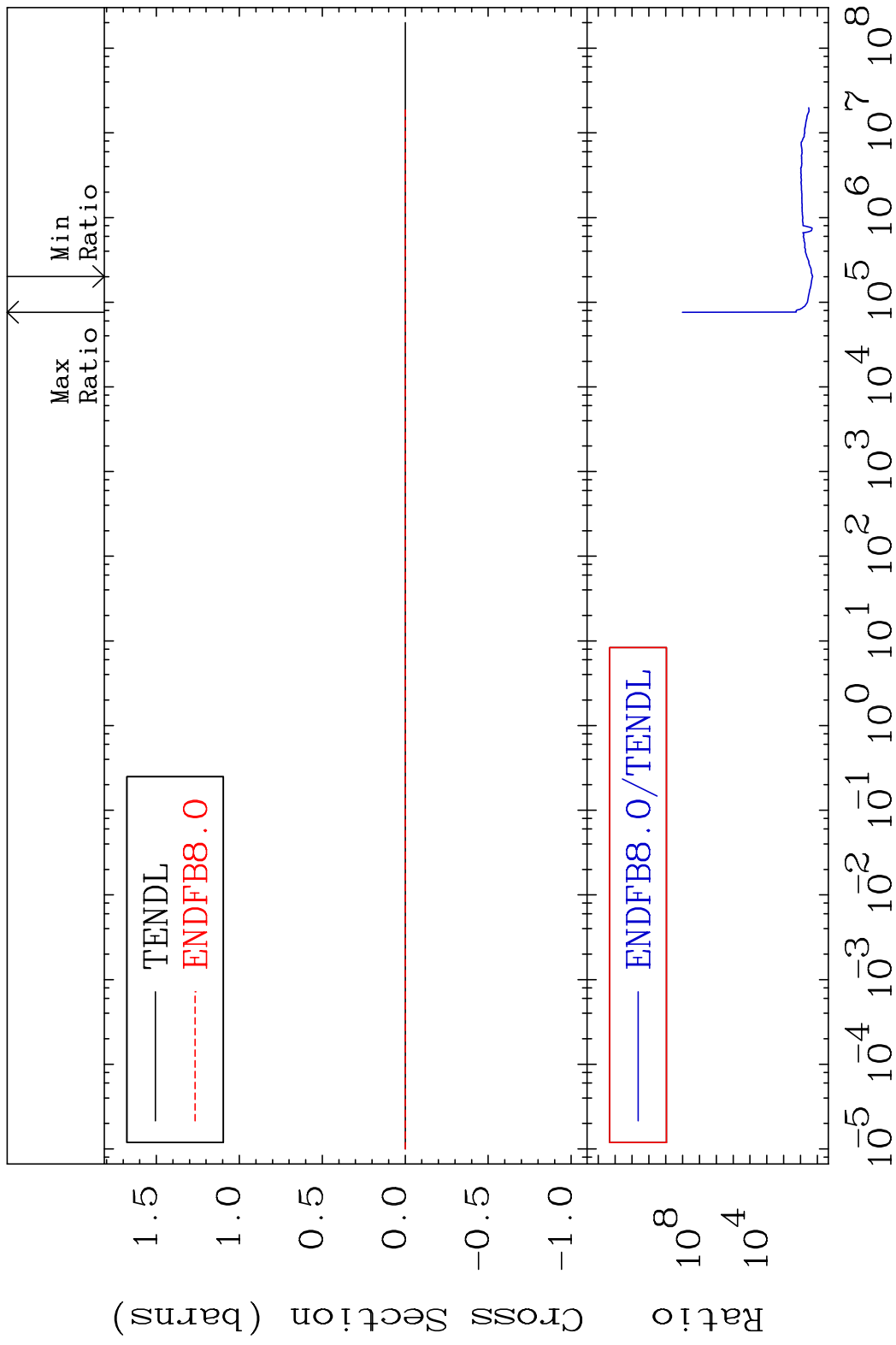
MAT 6152 Kerma non-elastic (all but mt2) 61-Pm-148  
 Cross Section 599.9 To 9999. %



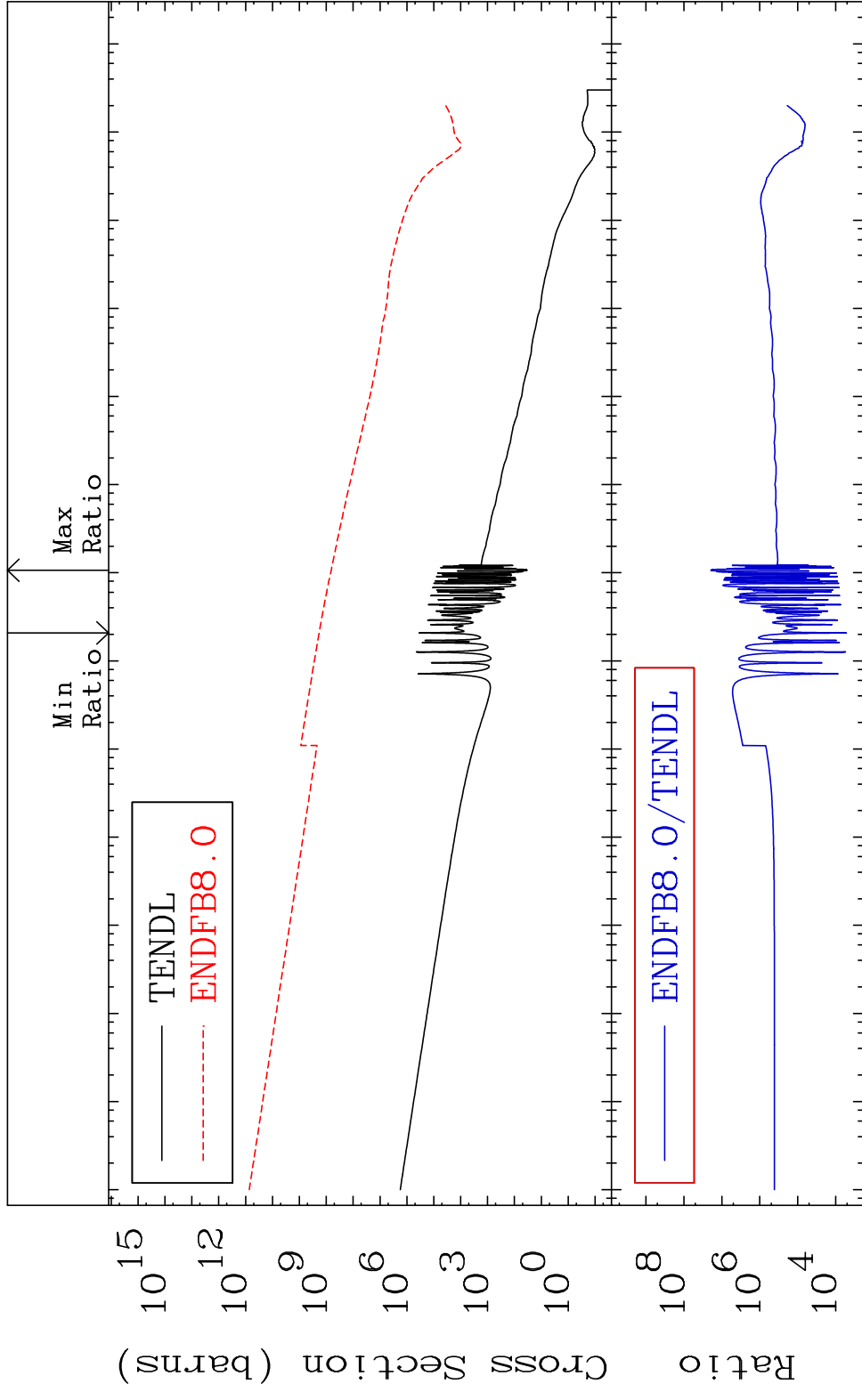
MAT 6152 Kerma inelastic (mt51-91) 61-Pm-148  
 Cross Section 1841. To 9999. %



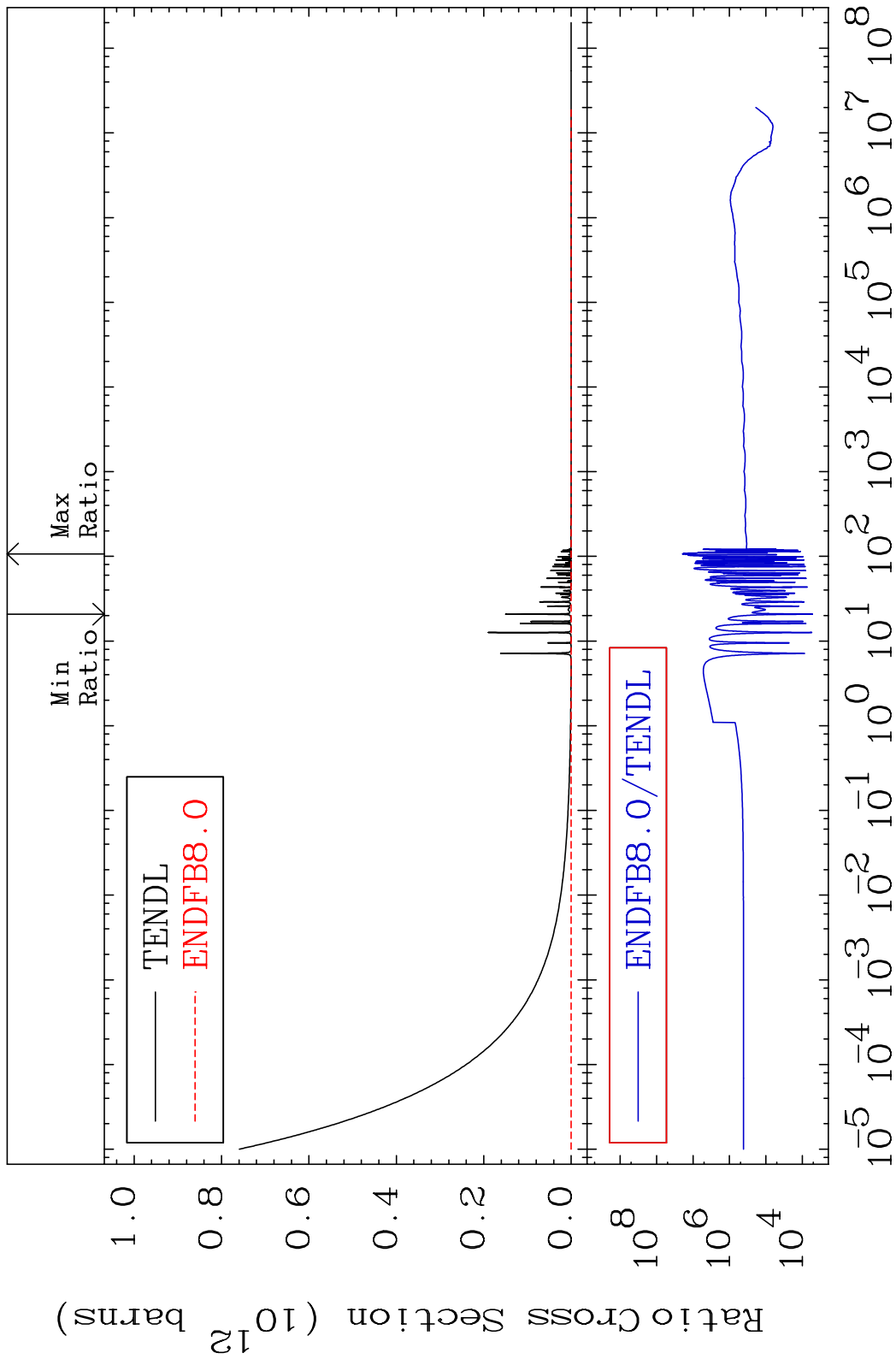
MAT 6152 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-148  
 Cross Section 1841. To 9999. %



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

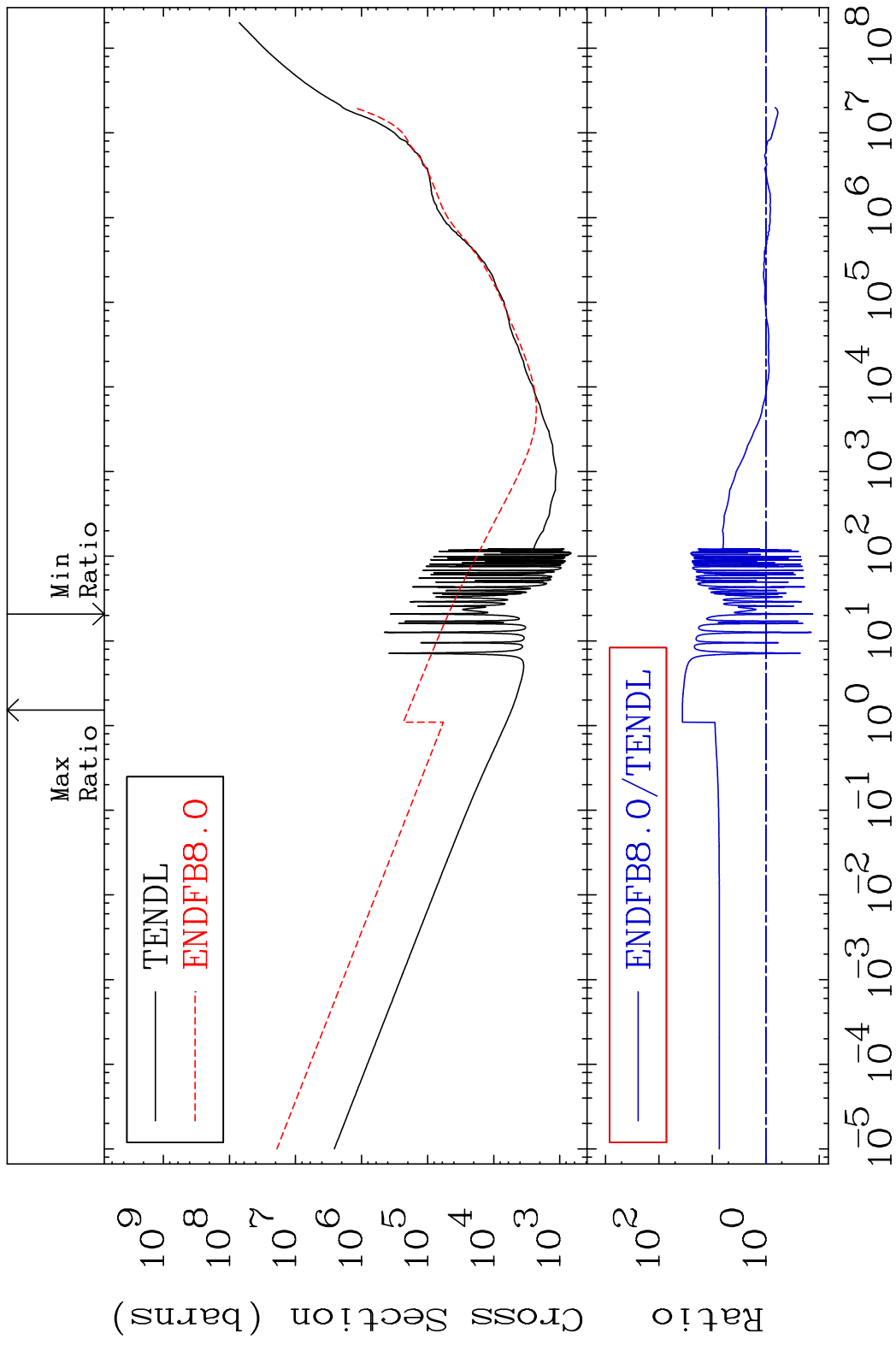


MAT 6152 Total photon (eV-barns) 61-Pm-148  
 Cross Section 9999. To 9999. %



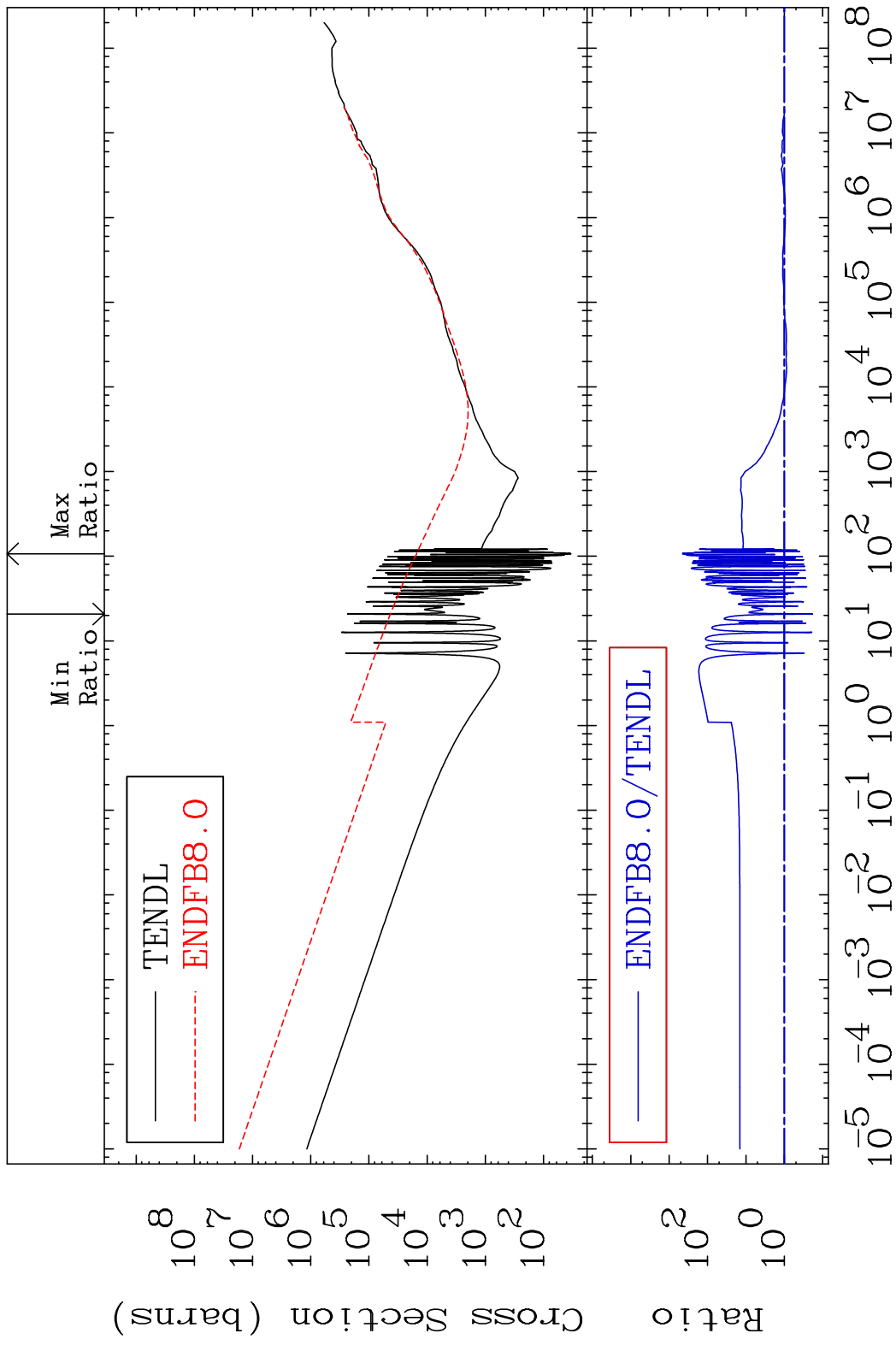
30 Incident Energy (eV) 61-Pm-148

MAT 6152 Total kinematic kerma (high limit) 61-Pm-148  
 Cross Section -86.66 To 3543. %





MAT 6152      Dpa total (eV-barns)      61-Pm-148  
 Cross Section      -81.59 To 9999. %



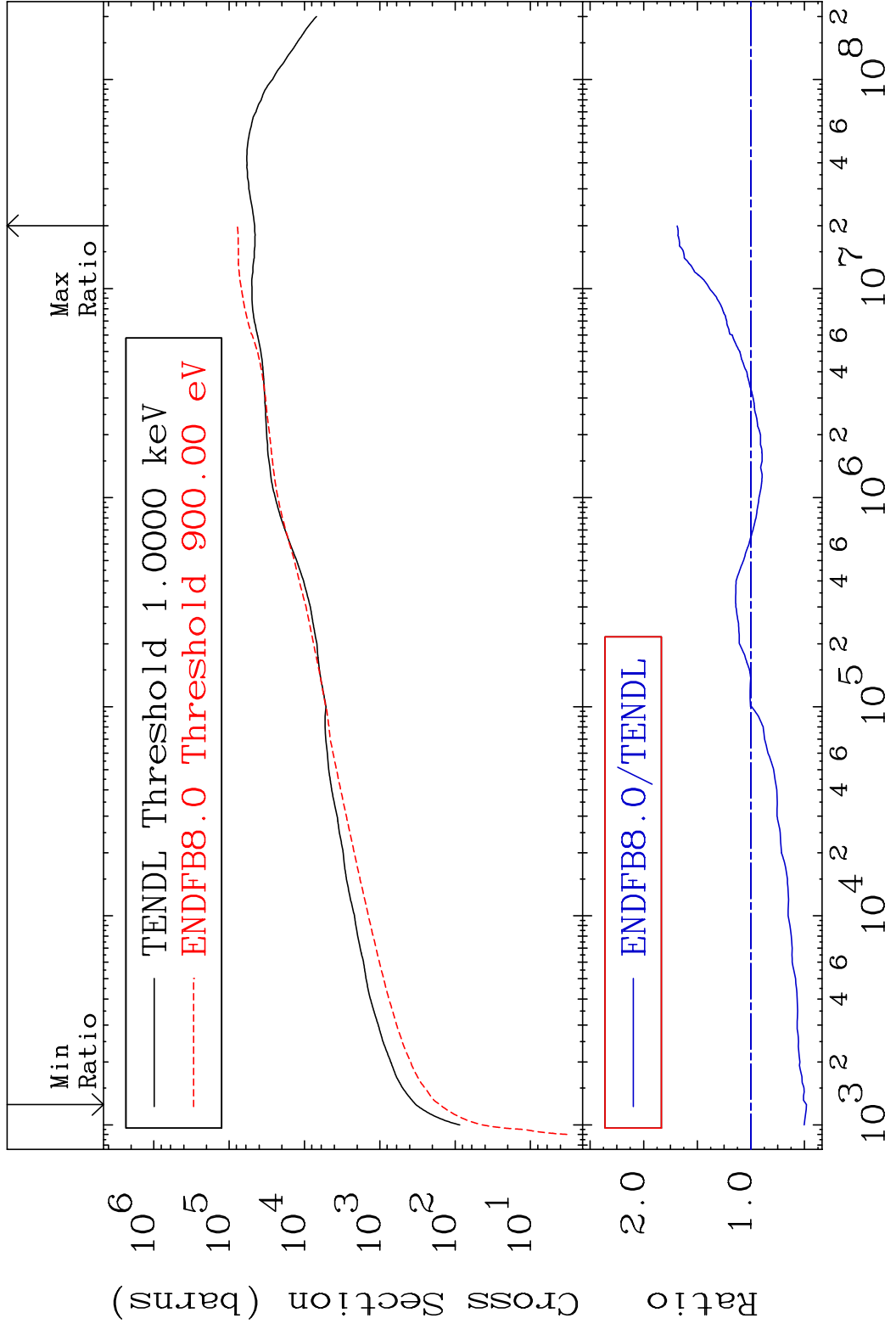
32      Incident Energy (eV)      61-Pm-148

MAT 6152

Dpa elastic (mt2)

61-Pm-148

Cross Section -51.77 To 68.72 %

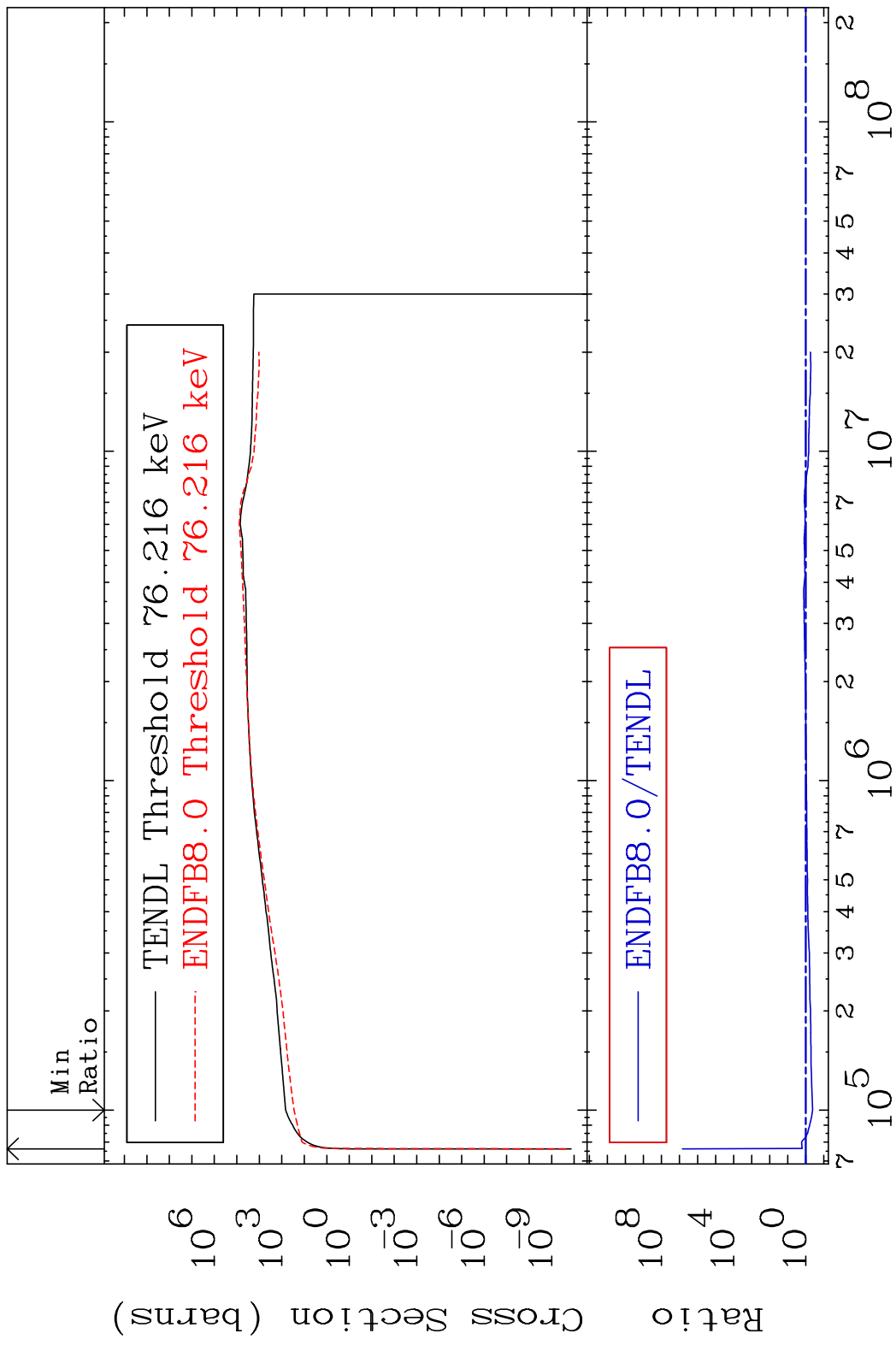


33

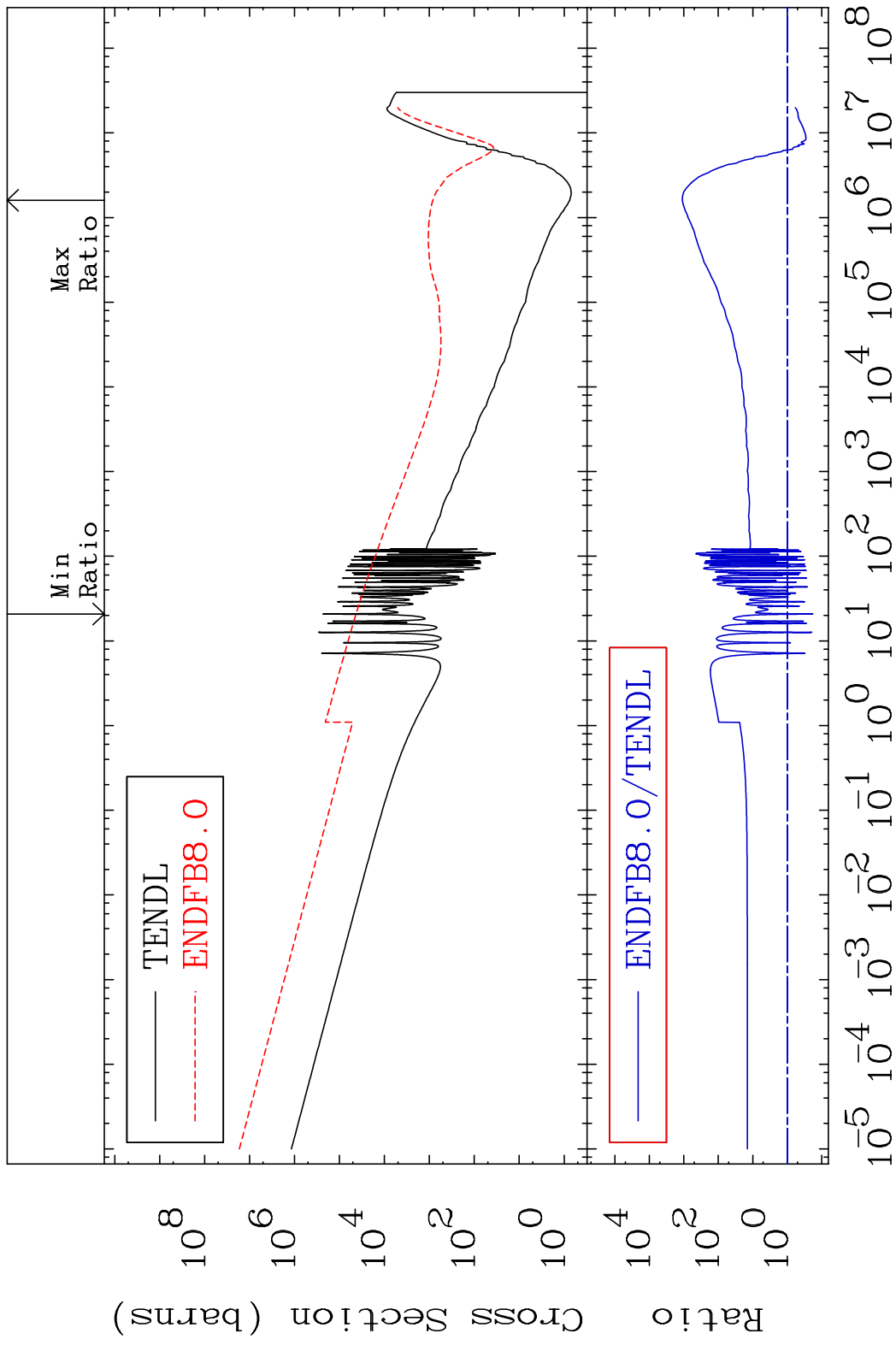
Incident Energy (eV)

61-Pm-148

MAT 6152      Dpa inelastic (mt51-91)      61-Pm-148  
 Cross Section    -57.53 To 9999. %



MAT 6152 Dpa disappearance (mt102 -120) 61-Pm-148  
 Cross Section -81.59 To 9999. %



35 Incident Energy (eV) 61-Pm-148