

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

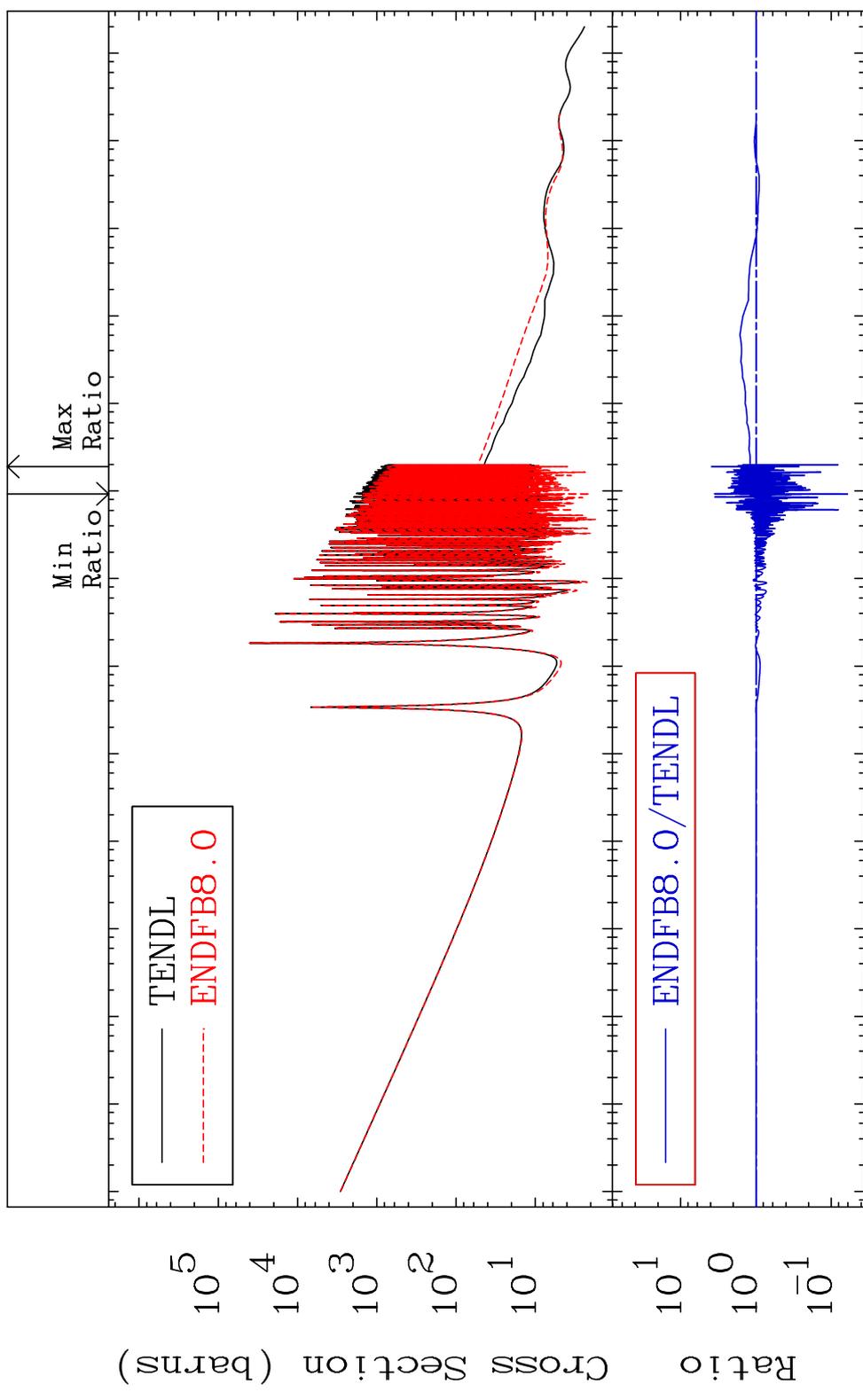
MAT 6234

Total

62-Sm-147

Cross Section

-93.93 To 285.9 %



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>8</sup> 10<sup>7</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>

1

Incident Energy (eV)

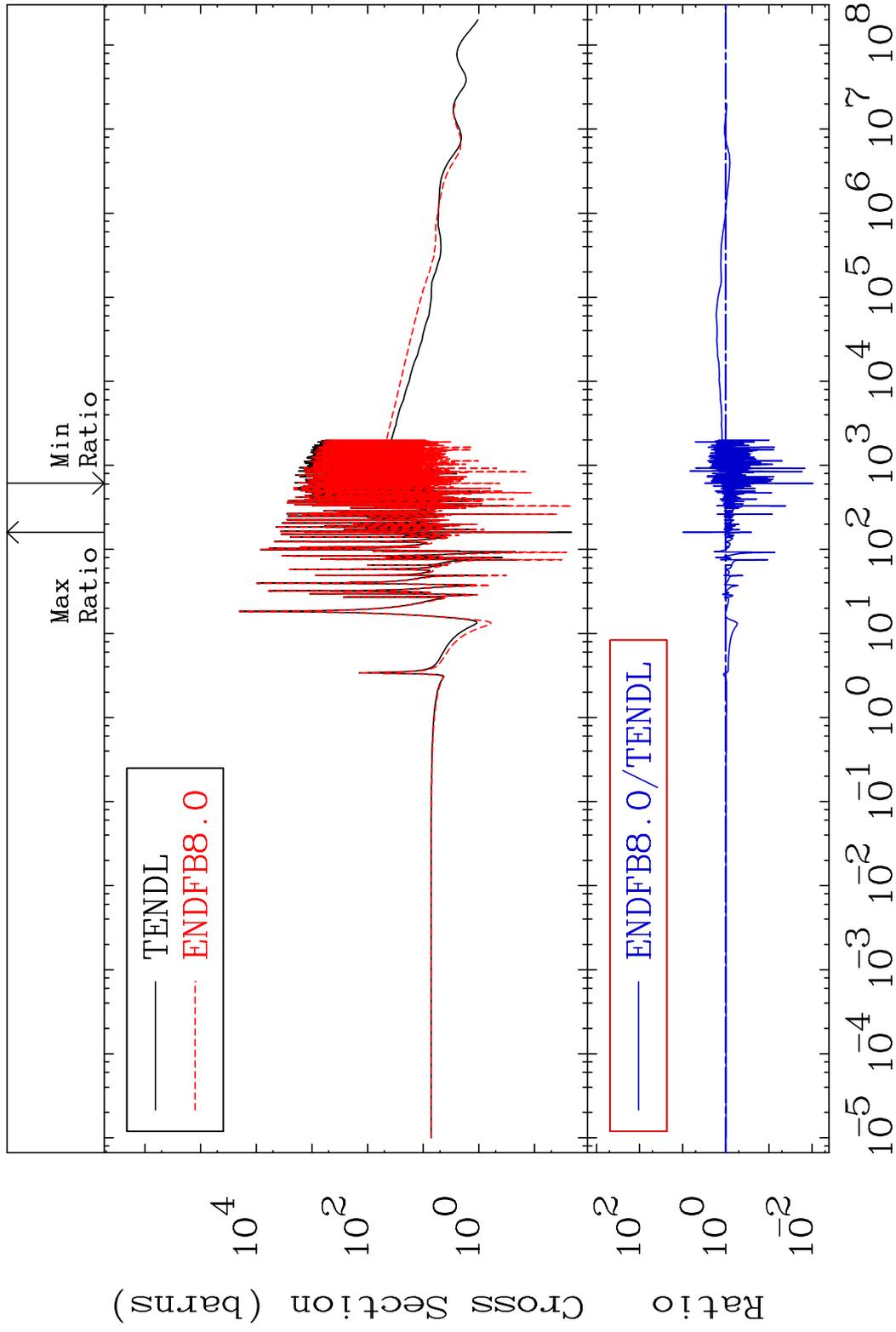
62-Sm-147

MAT 6234

Elastic

62-Sm-147

Cross Section -99.05 To 895.2 %

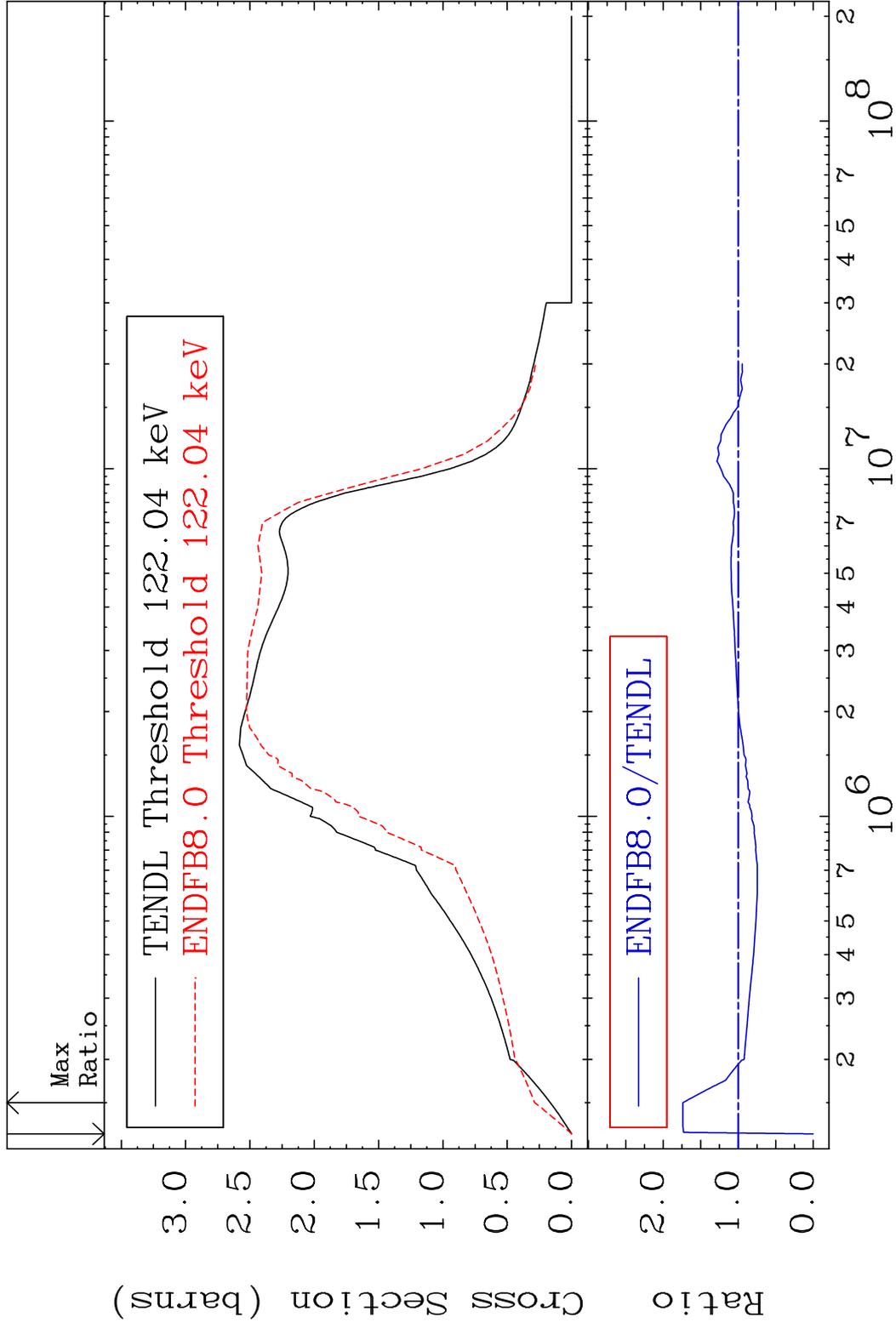


2

Incident Energy (eV)

62-Sm-147

MAT 6234 Inelastic 62-Sm-147  
 Cross Section -100.0 To 73.90 %

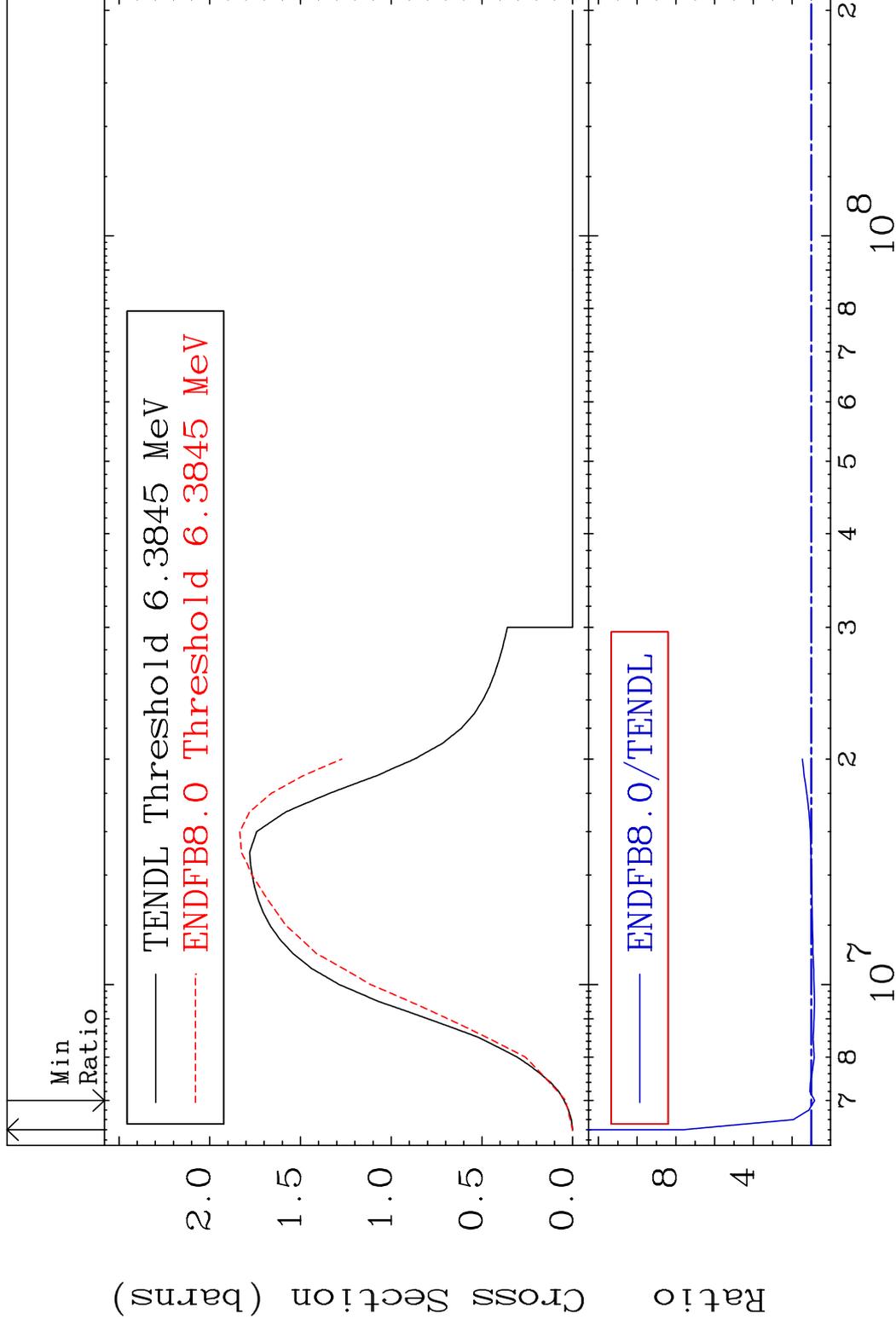


MAT 6234

(n,2n)

62-Sm-147

Cross Section -17.10 To 657.2 %



4

Incident Energy (eV)

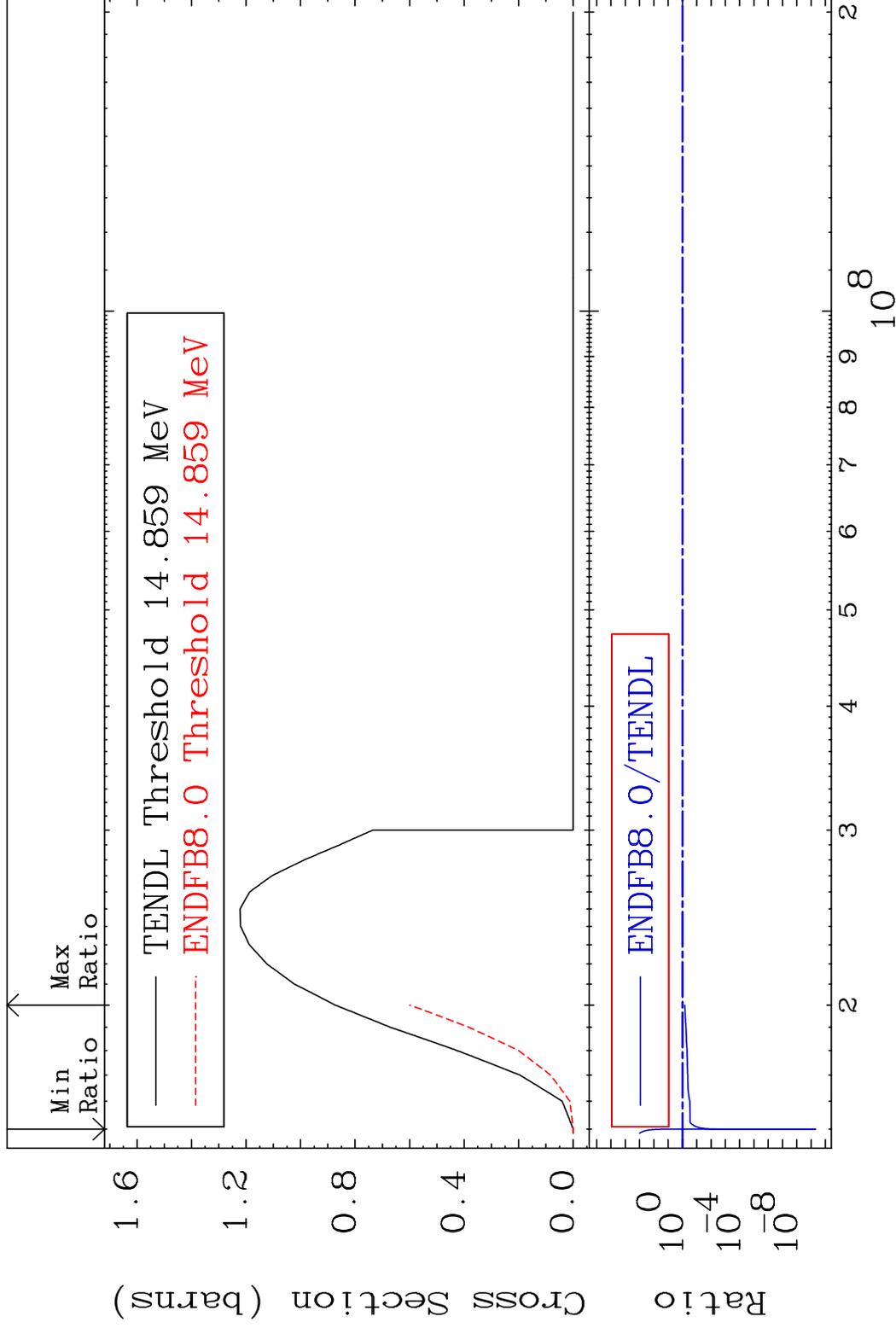
62-Sm-147

MAT 6234

(n,3n)

62-Sm-147

Cross Section -100.0 To -31.38%



5

Incident Energy (eV)

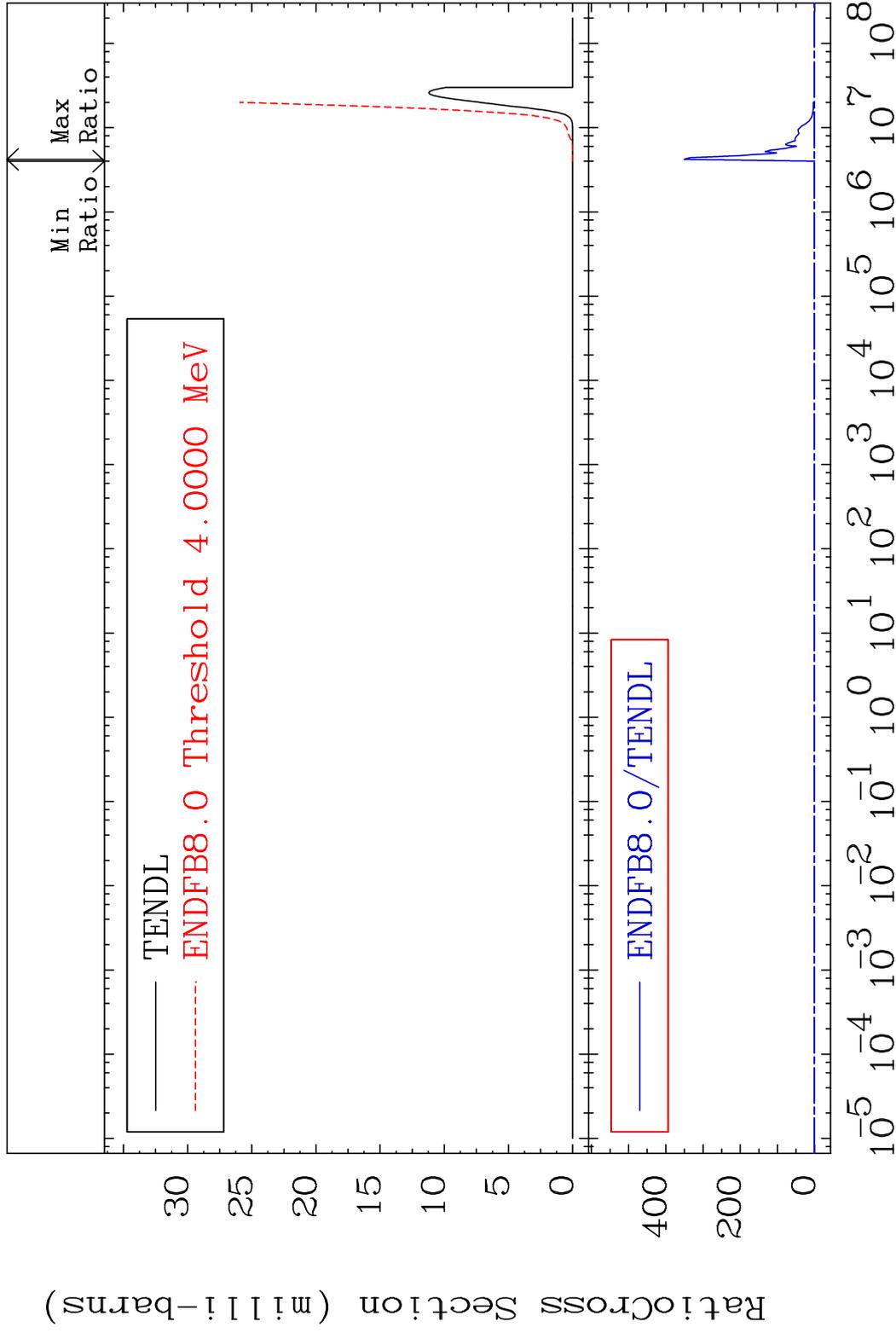
62-Sm-147

MAT 6234

(n, n')  $\alpha$

62-Sm-147

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

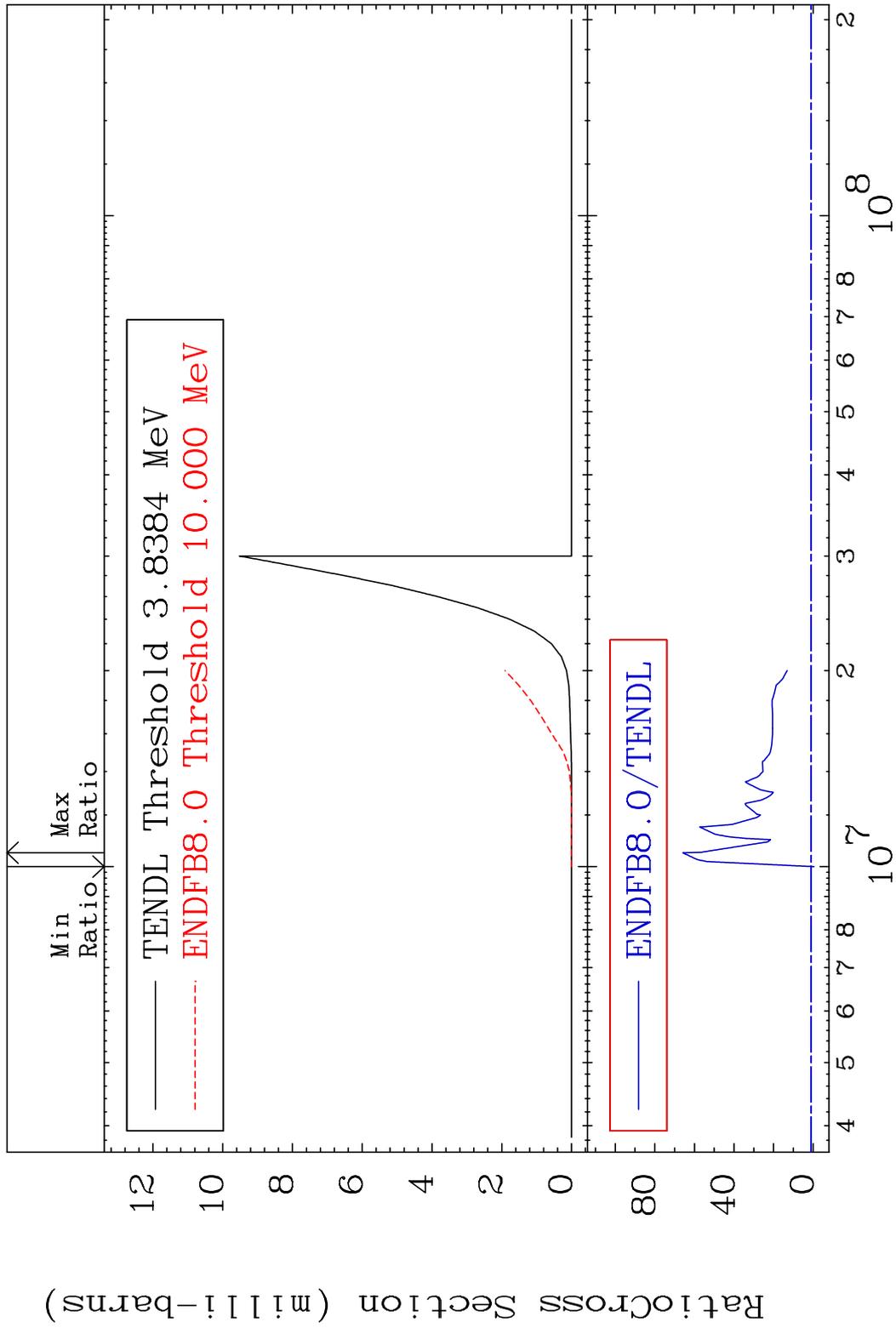
62-Sm-147

MAT 6234

(n,2n)  $\alpha$

62-Sm-147

Cross Section -100.0 To 6485. %



7

Incident Energy (eV)

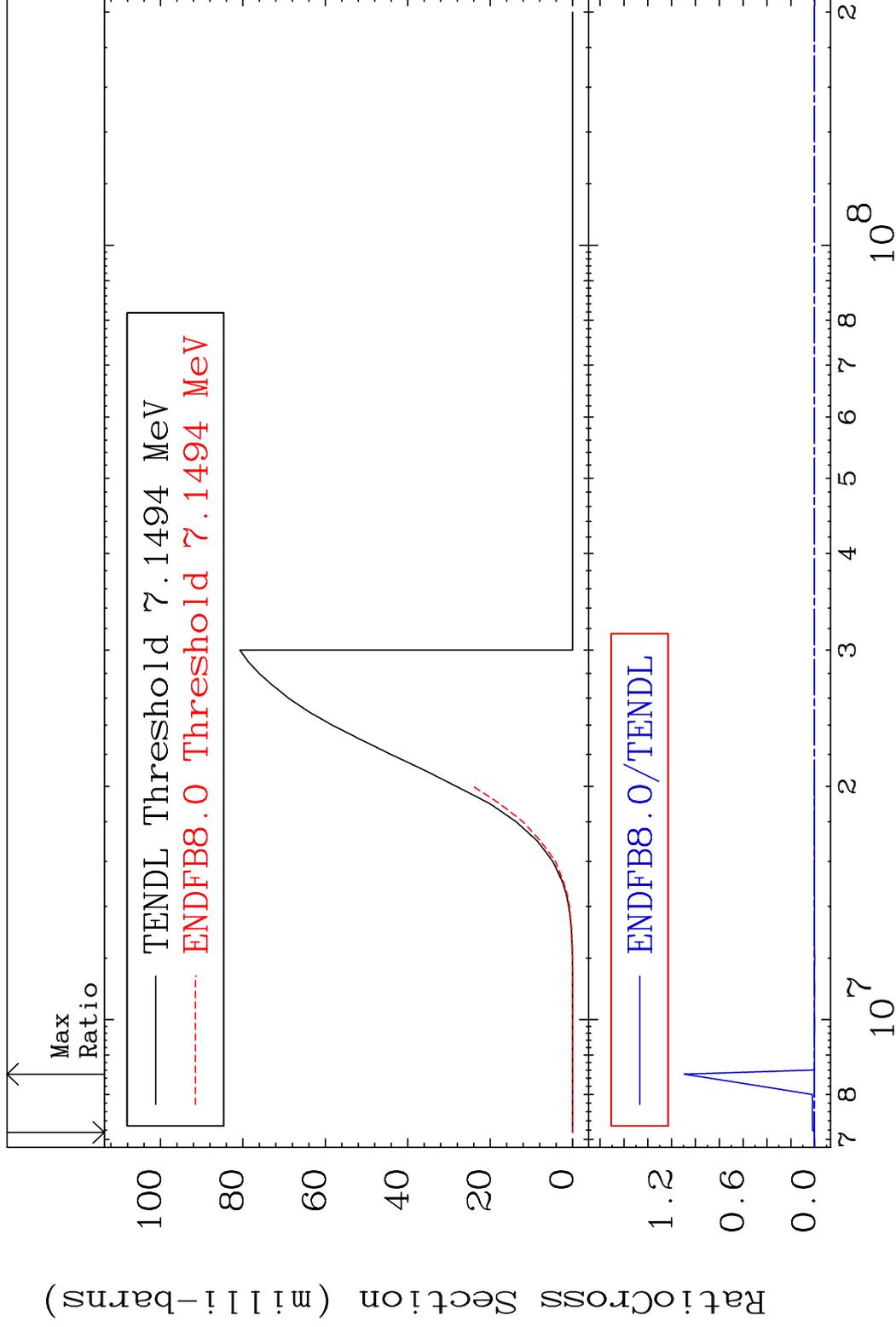
62-Sm-147

MAT 6234

(n, n') p

62-Sm-147

Cross Section -100.0 To 9999. %



62-Sm-147

Incident Energy (eV)

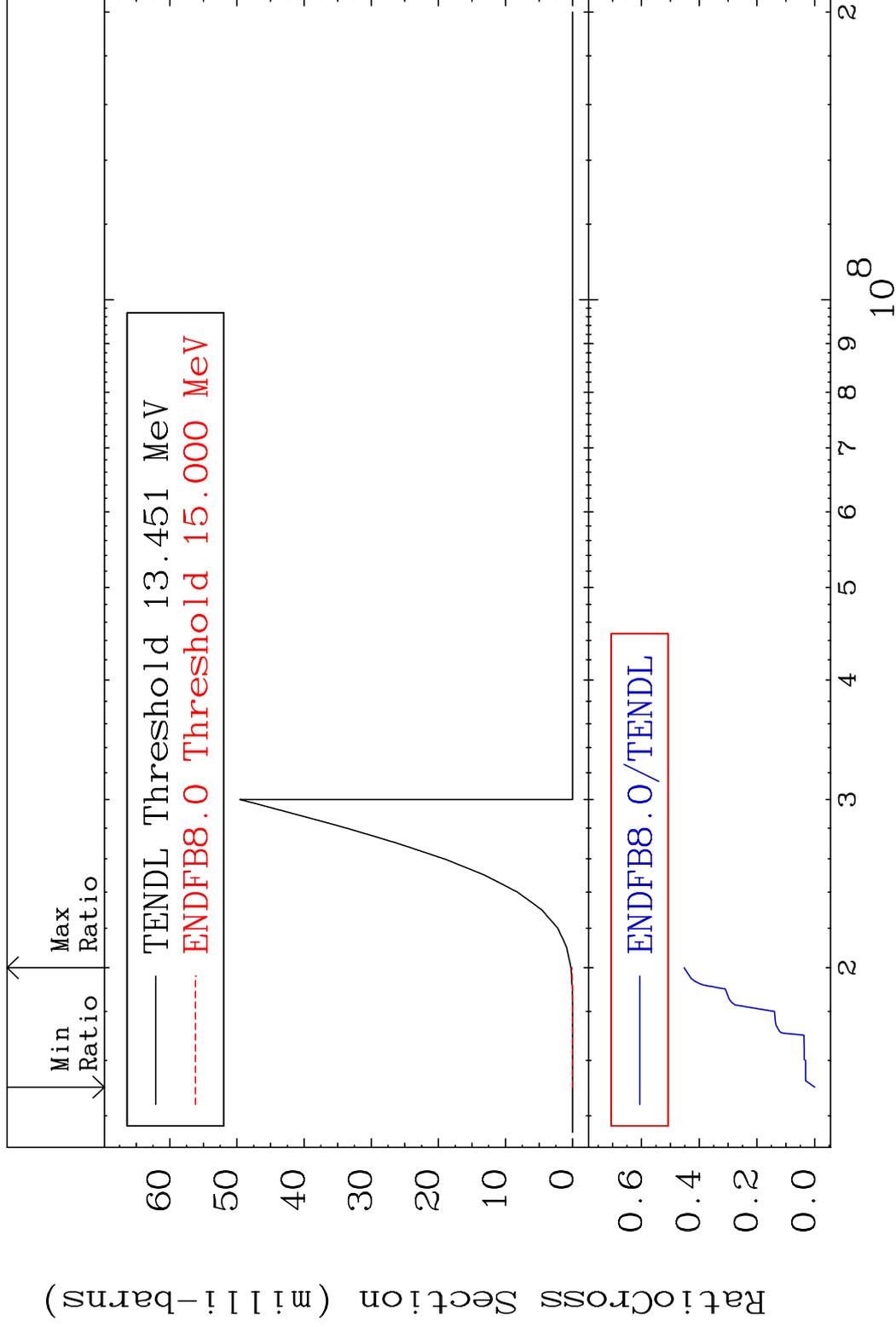
8

MAT 6234

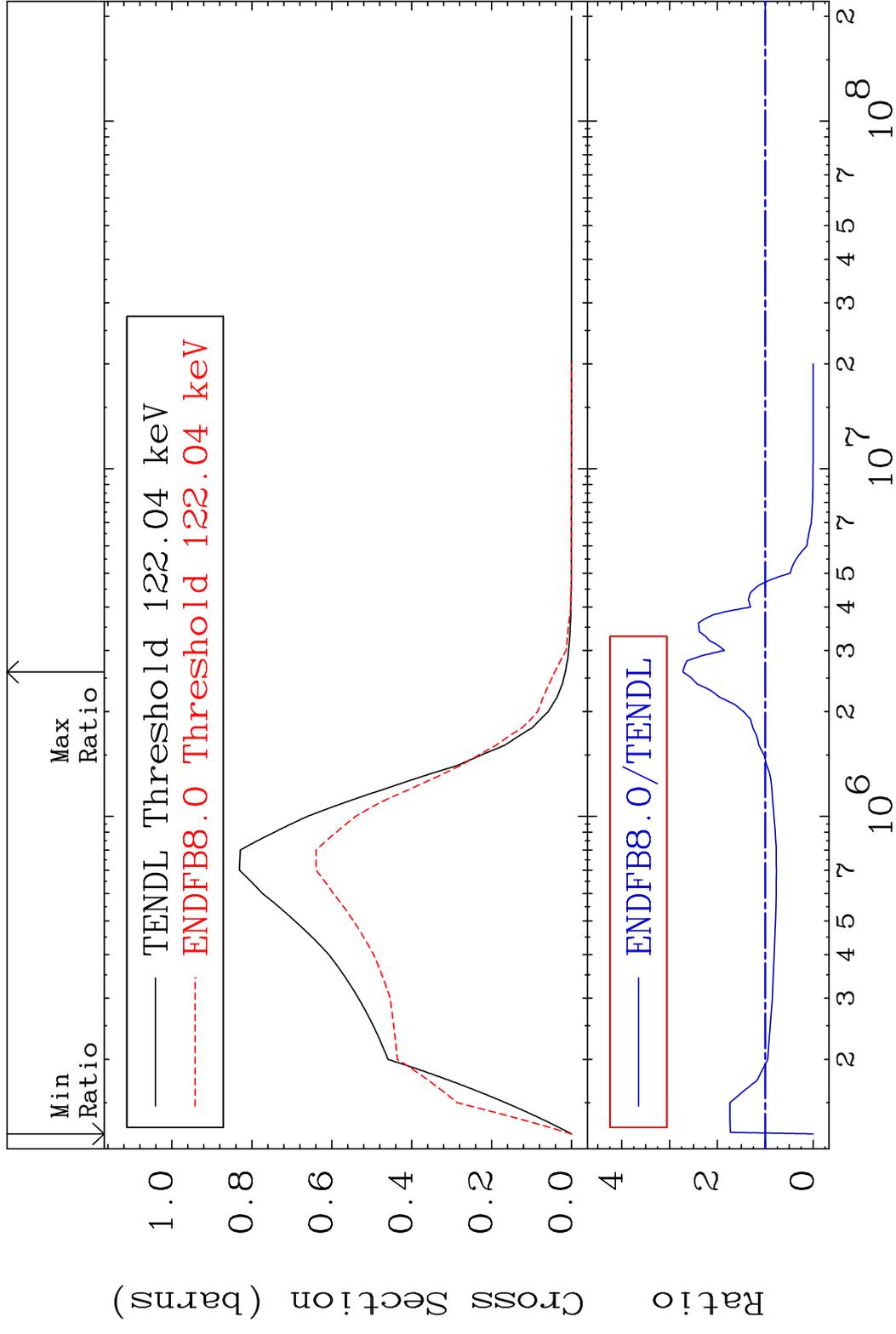
(n,2n) p

62-Sm-147

Cross Section -100.0 To -54.77%

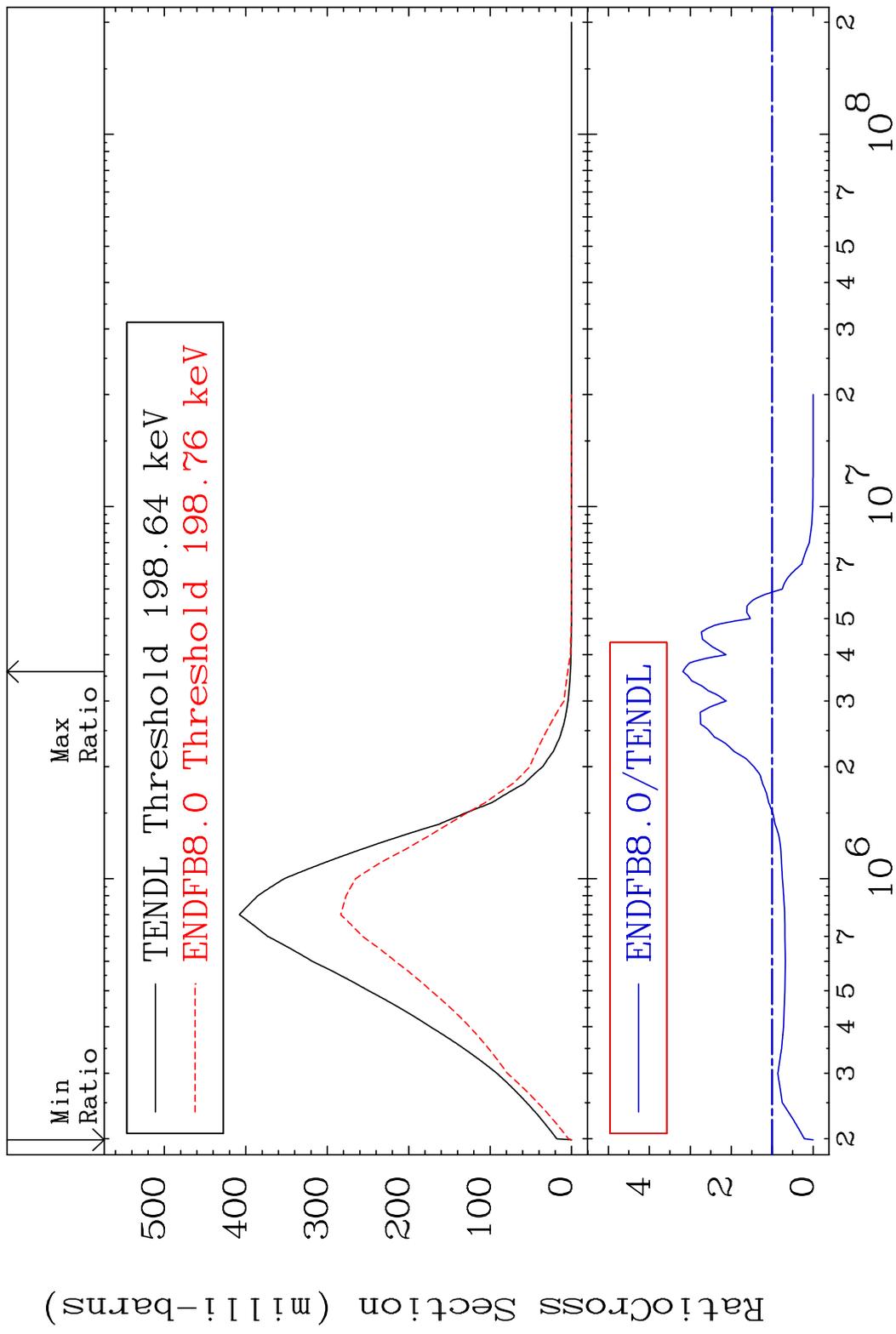


MAT 6234 MT= 51 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 172.3 %

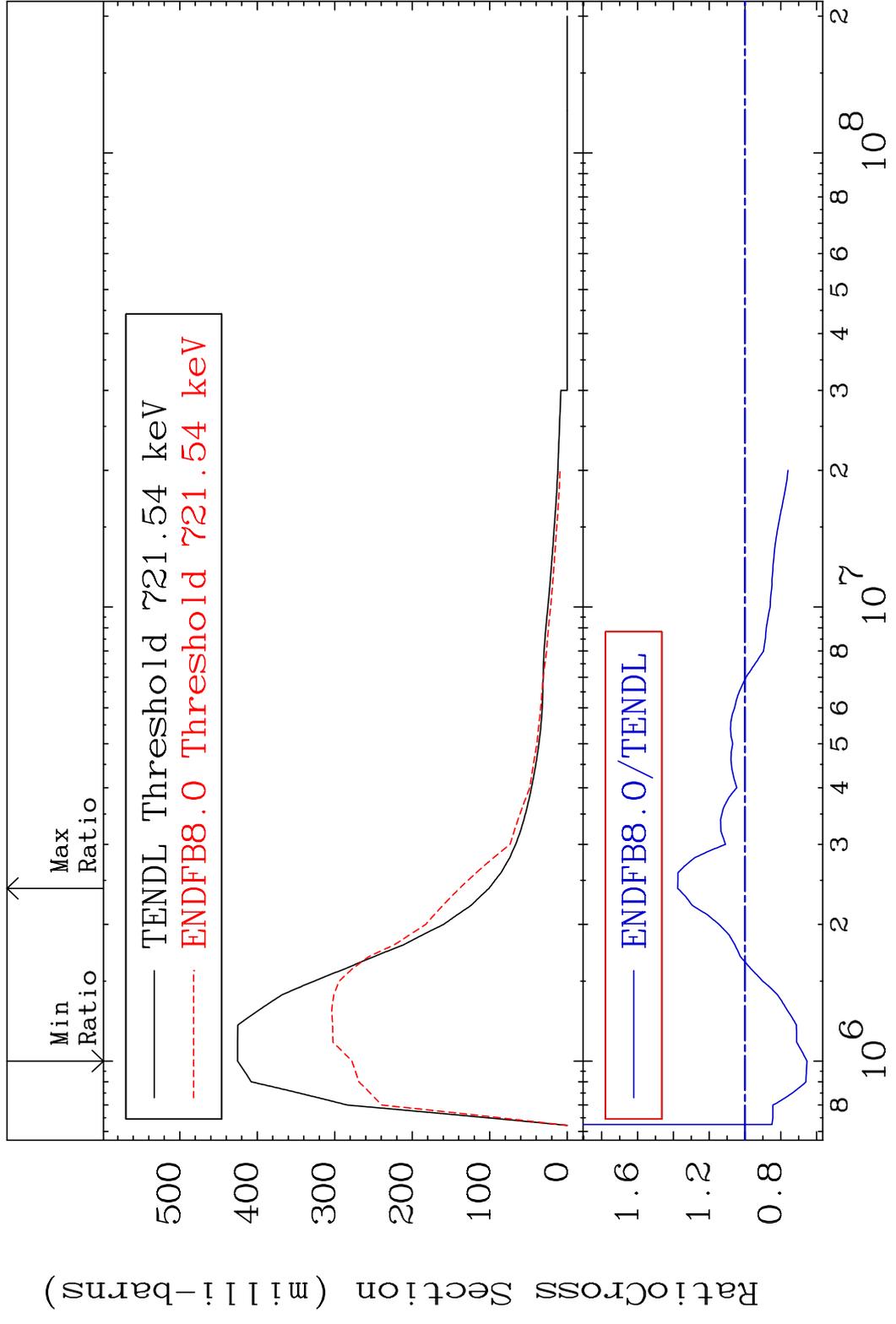


10 Incident Energy (eV) 62-Sm-147

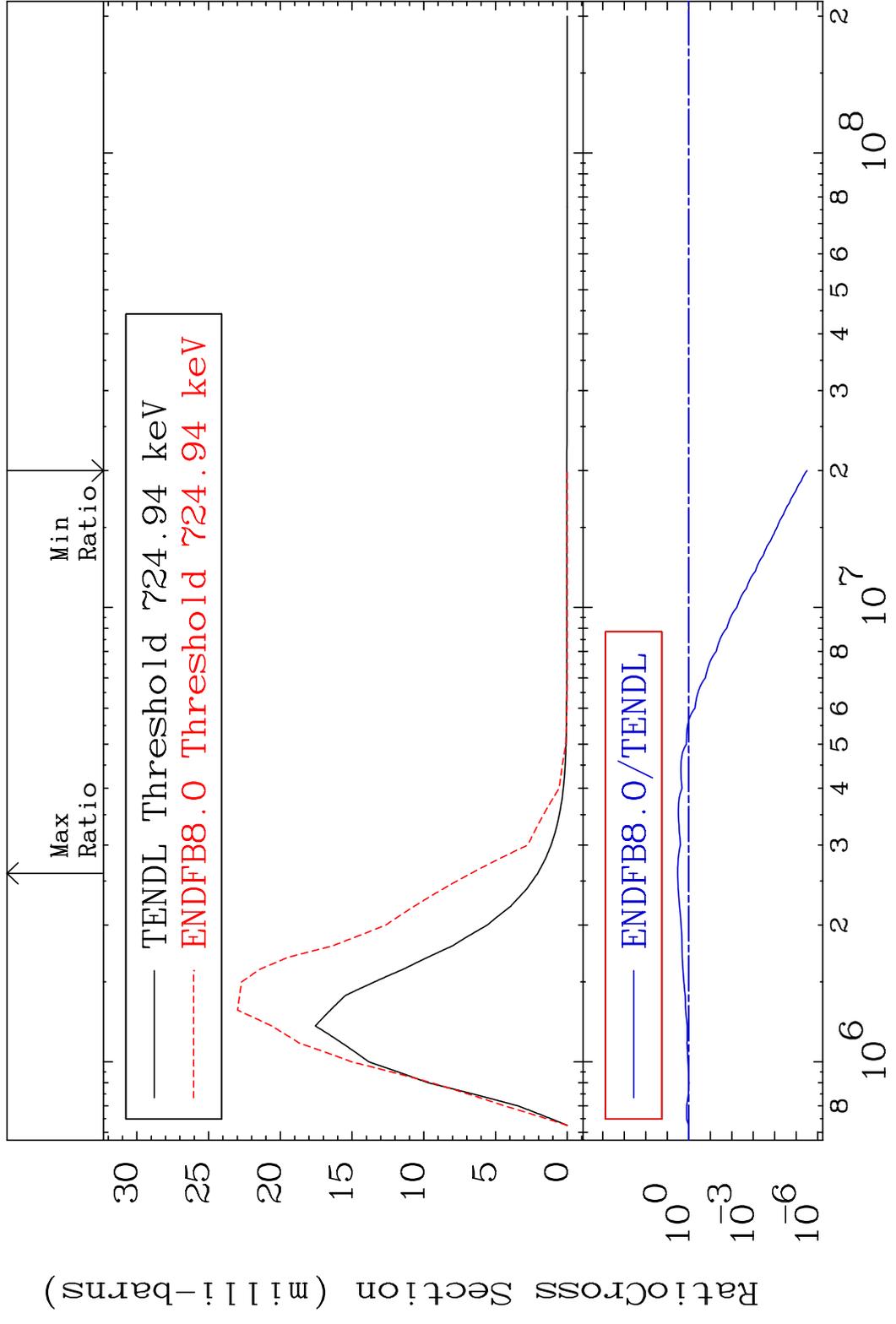
MAT 6234 MT= 52 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 218.2 %



MAT 6234 MT= 53 (n,n') Level 62-Sm-147  
 Cross Section -34.67 To 37.57 %

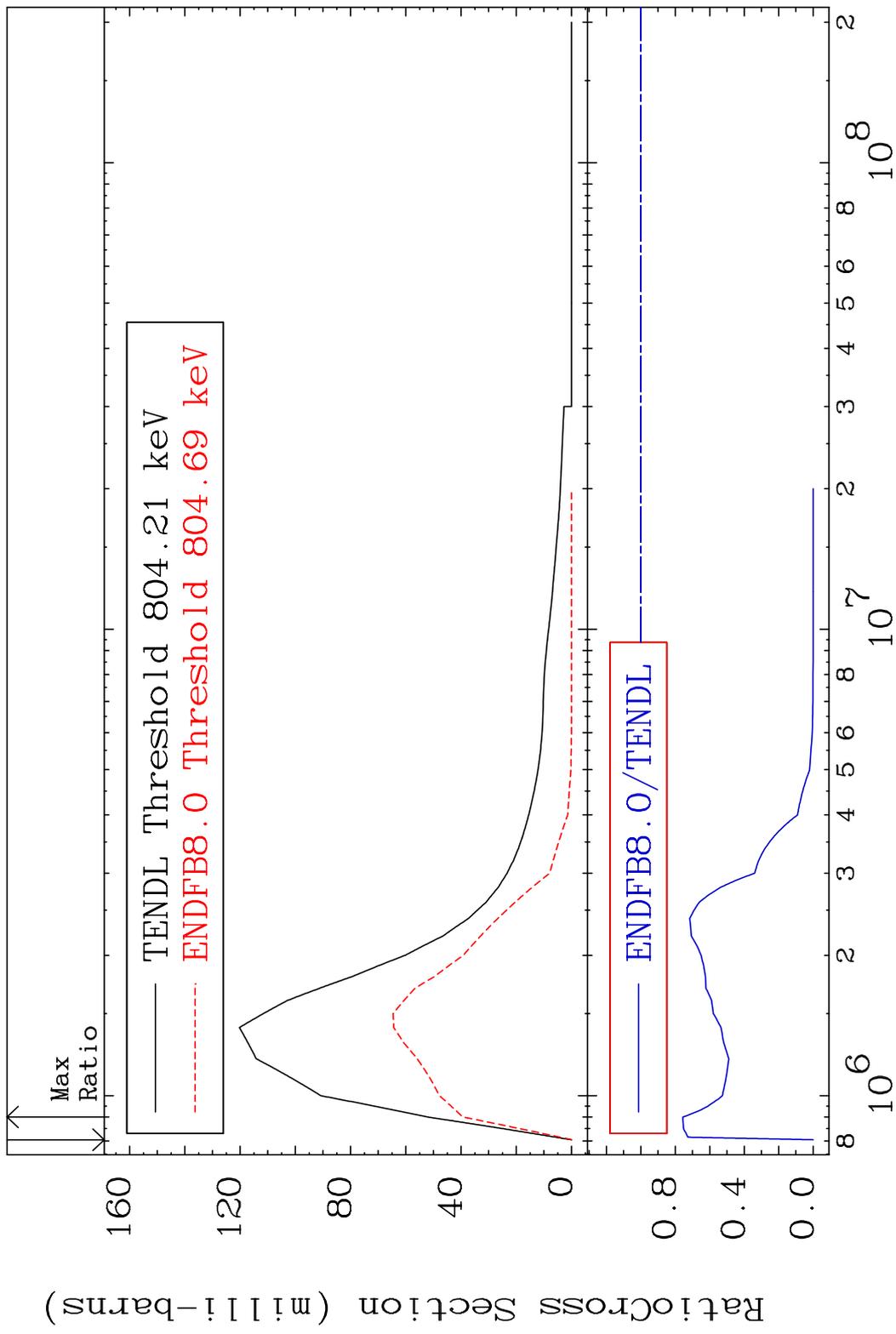


MAT 6234 MT= 54 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 226.3 %



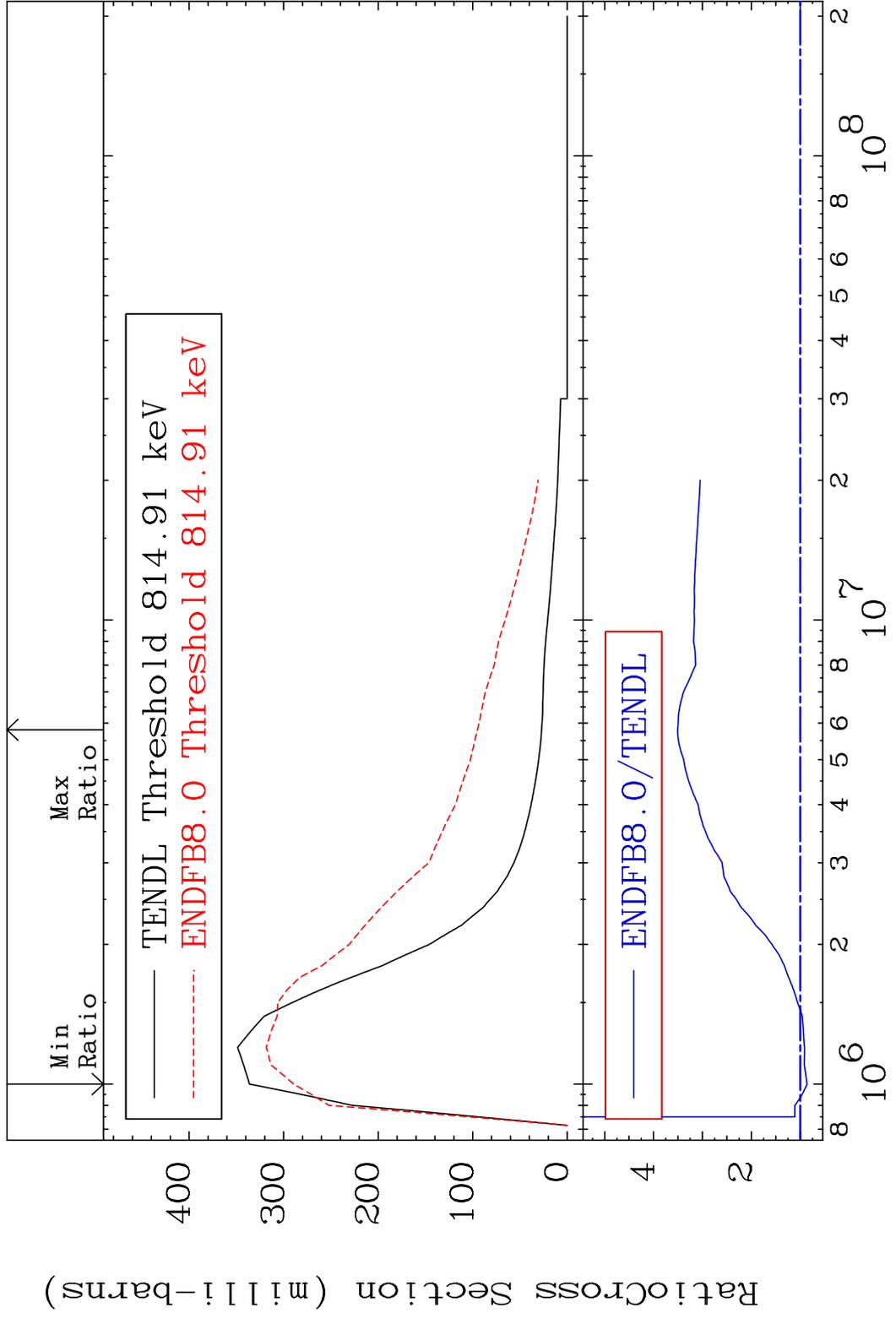
13 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 55 (n,n') Level 62-Sm-147  
 Cross Section -100.0 To -24.38%



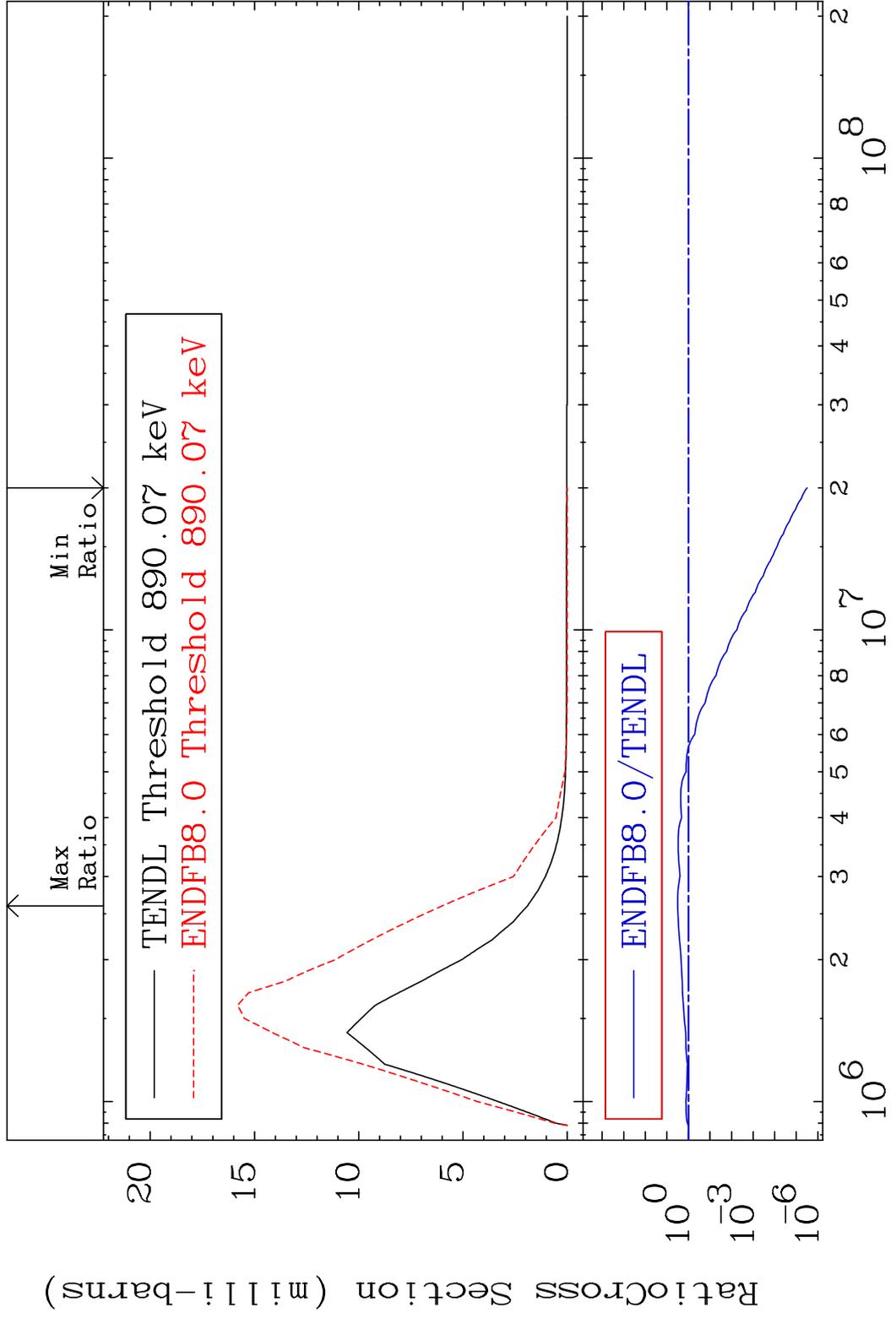
14 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 56 (n, n') Level 62-Sm-147  
 Cross Section -13.88 To 250.7 %



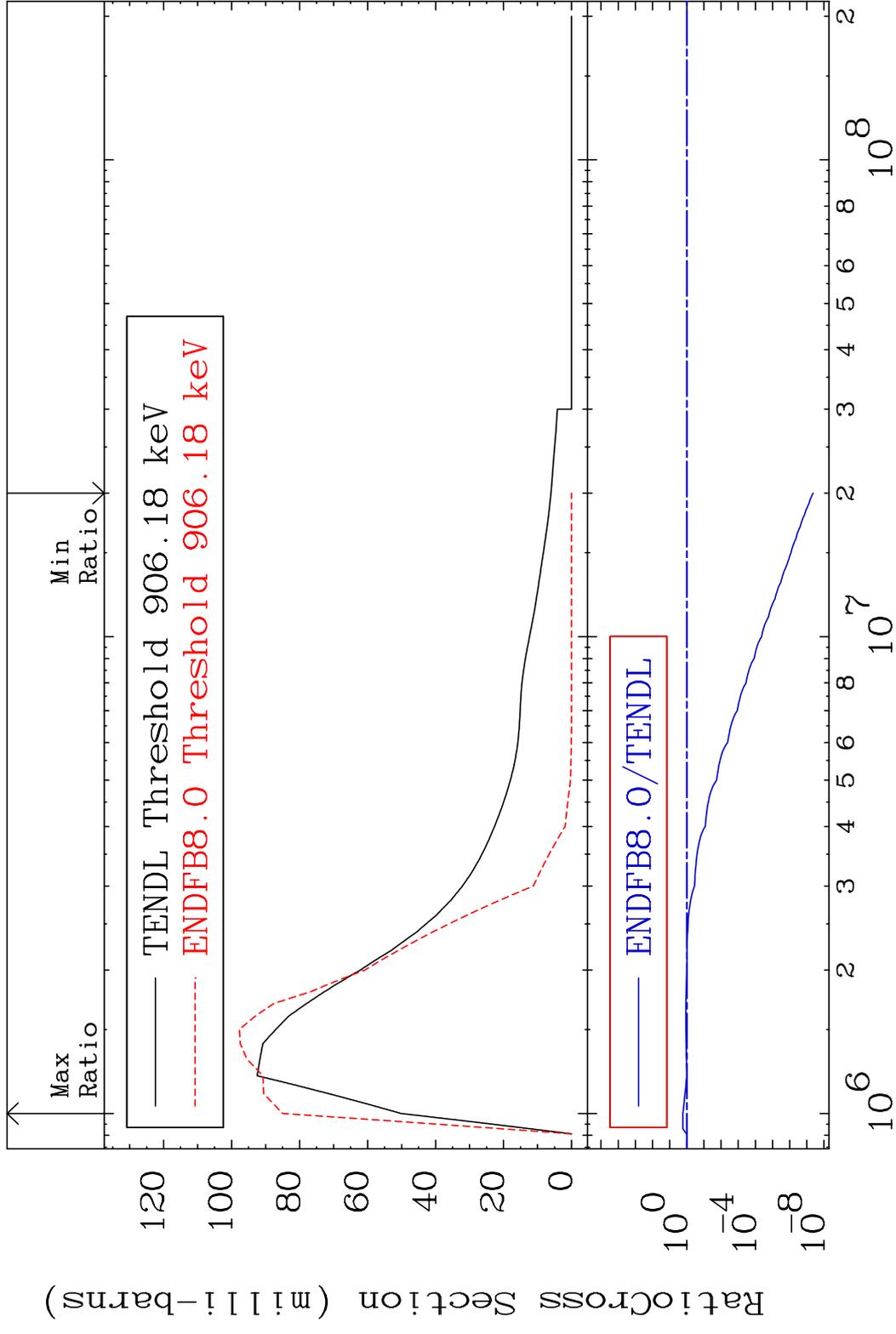
15 62-Sm-147

MAT 6234 MT= 57 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 214.6 %



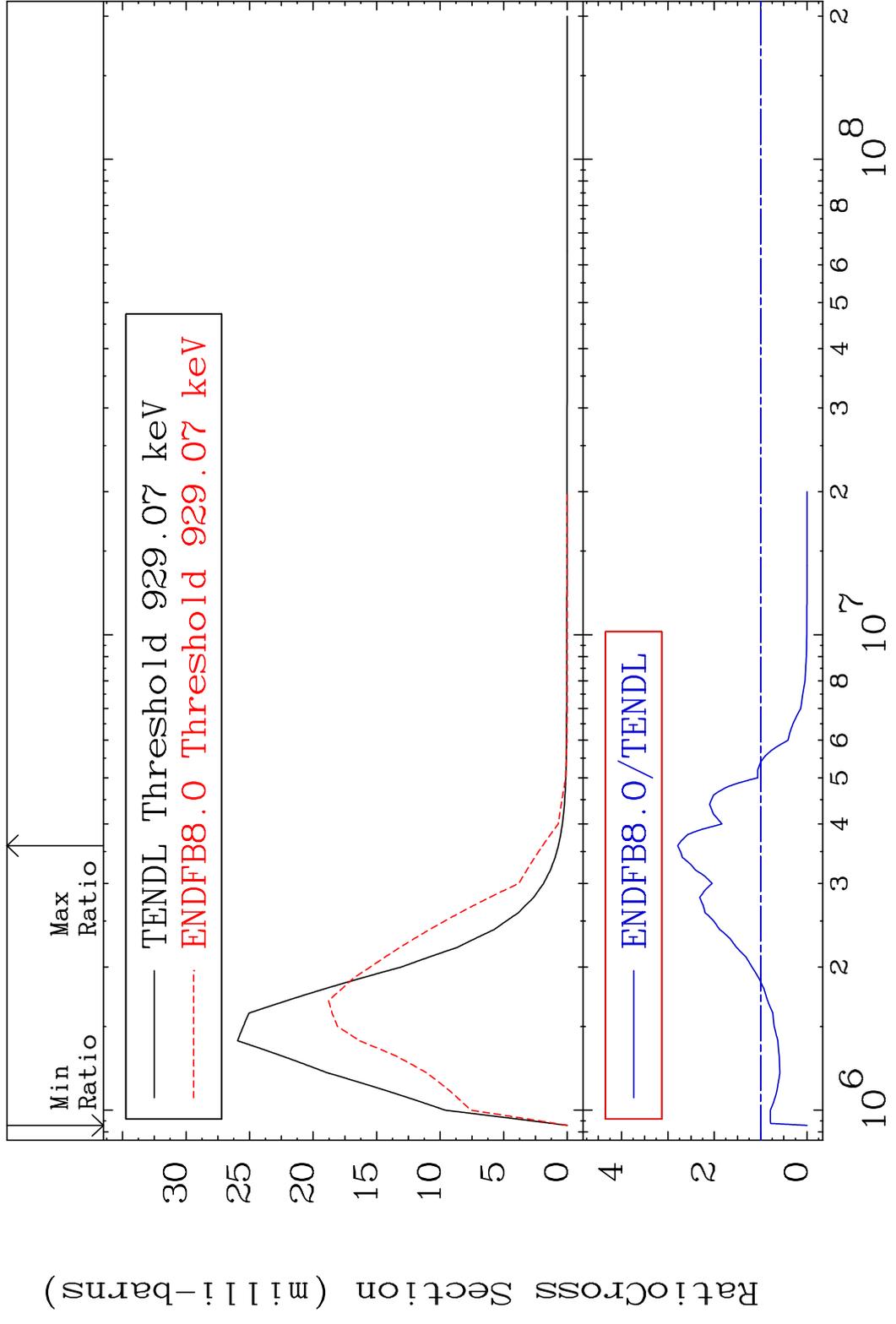
16 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 58 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 69.55 %



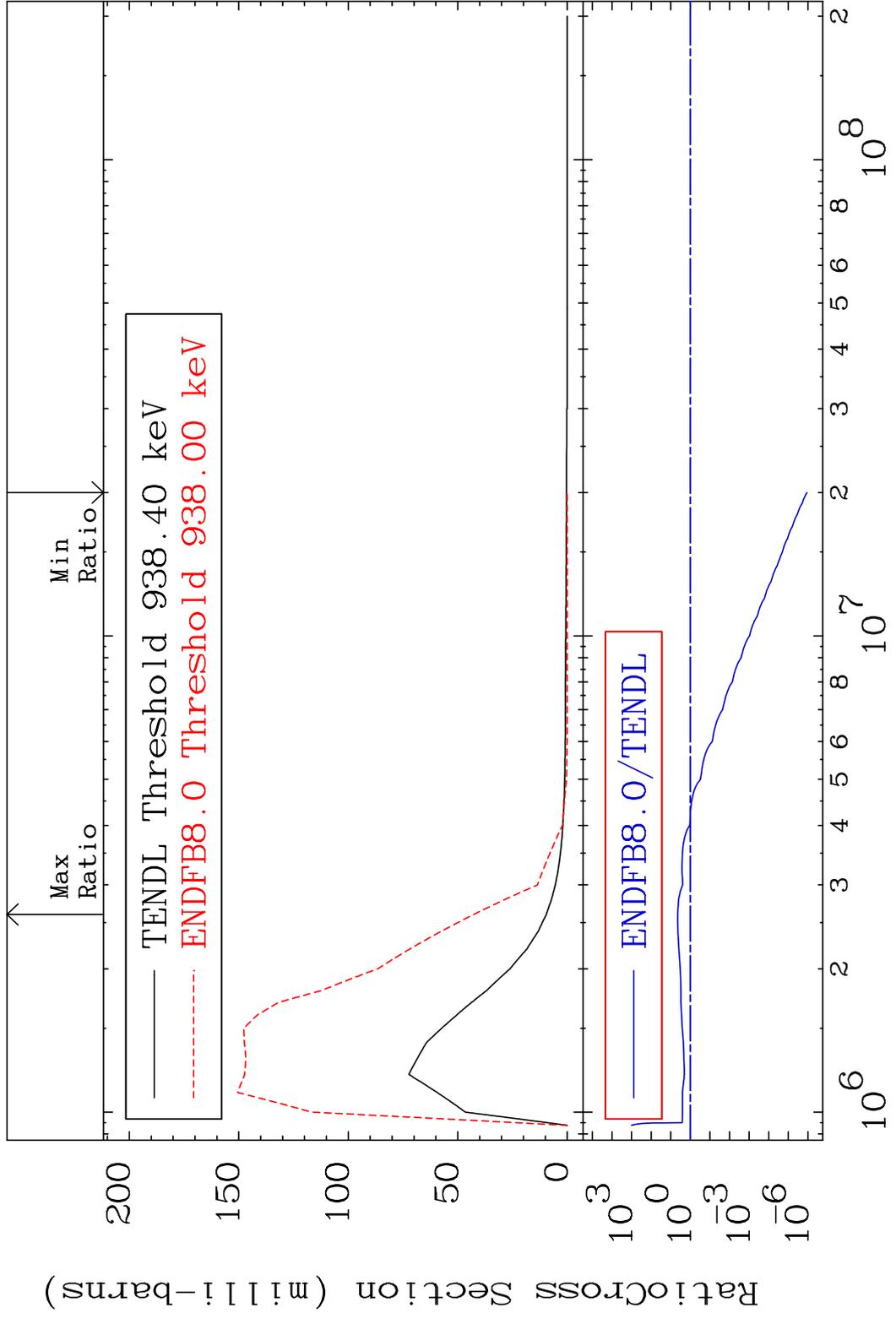
17 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 59 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 178.8 %



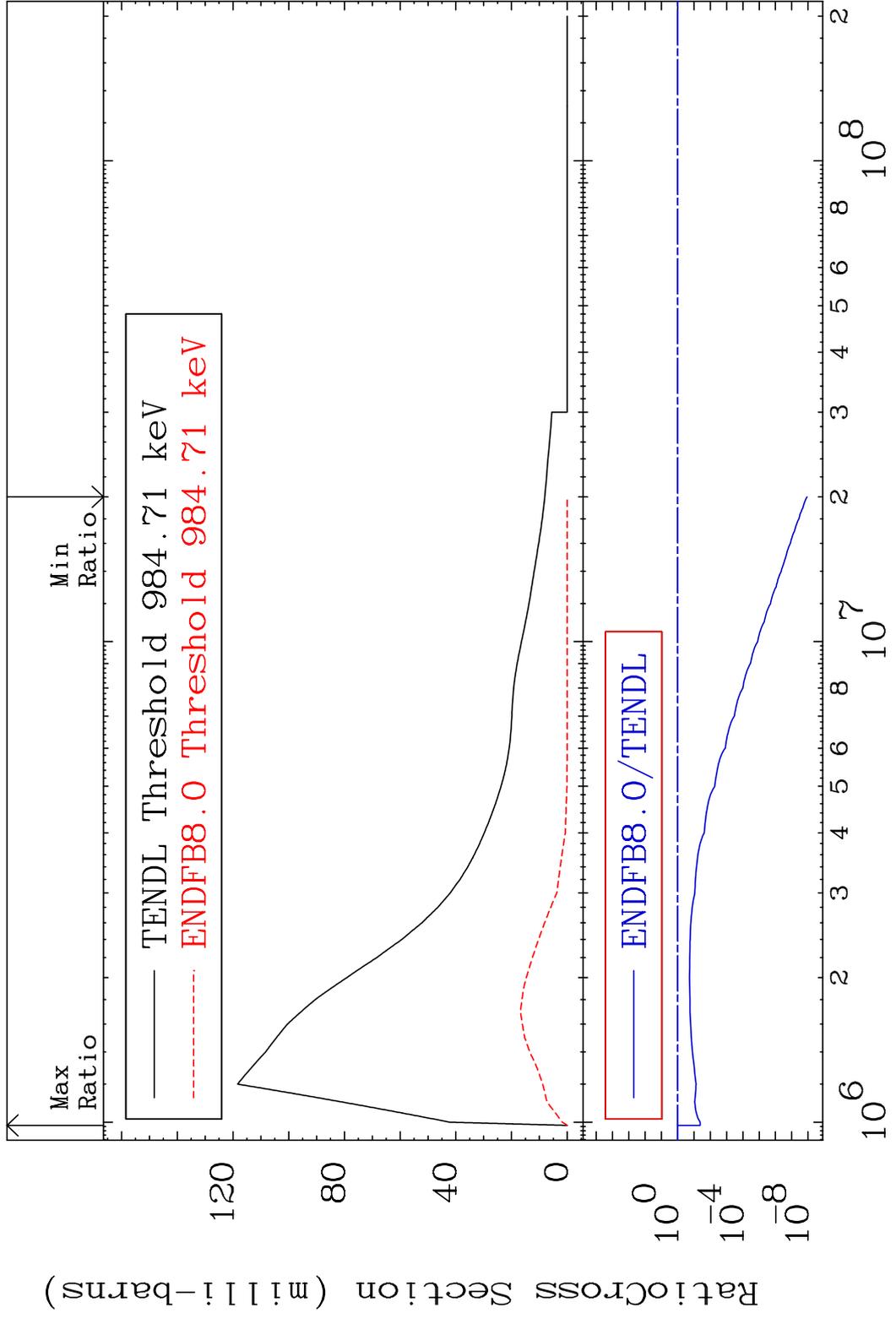
18 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 60 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 345.7 %



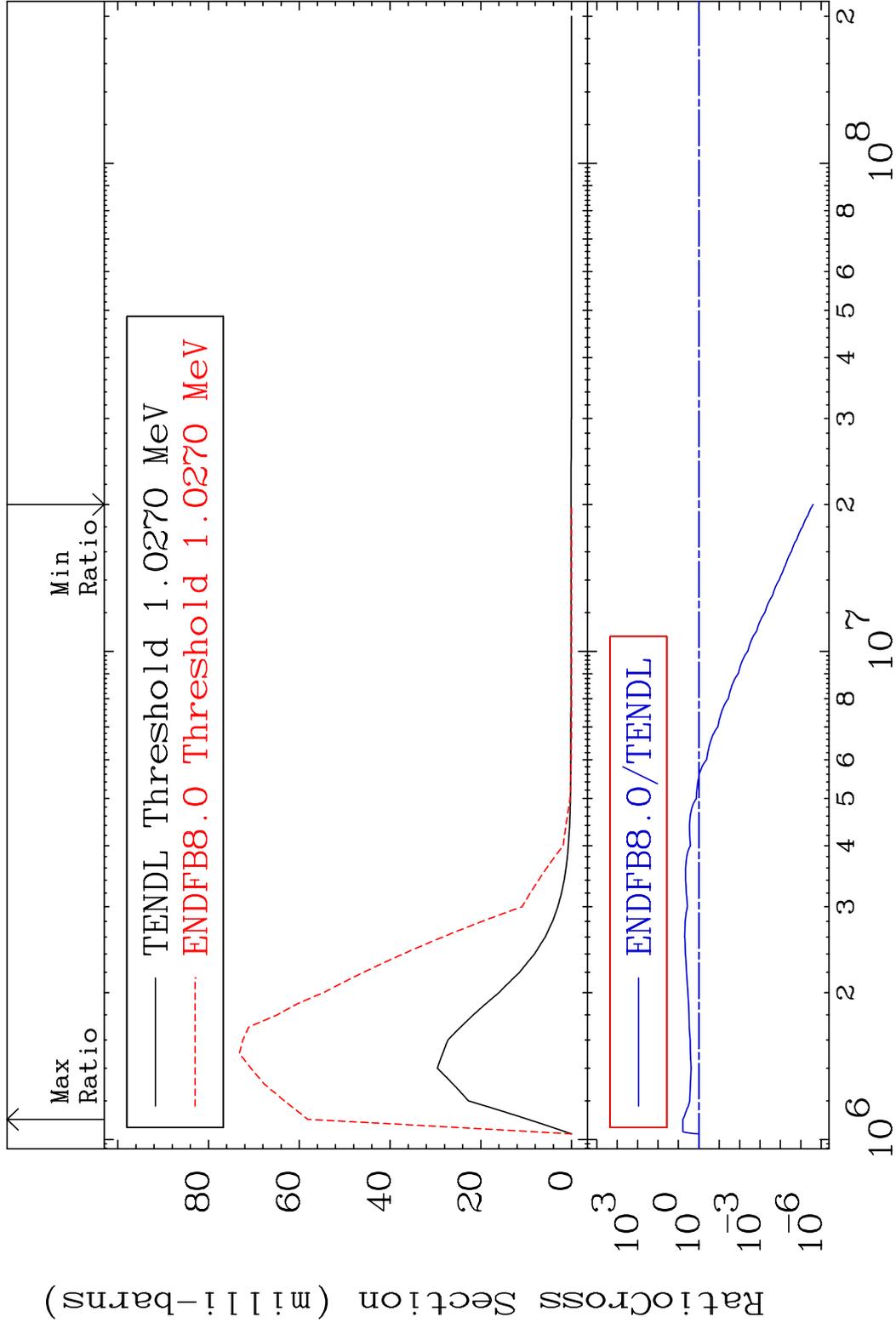
19 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 61 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 0.000 %



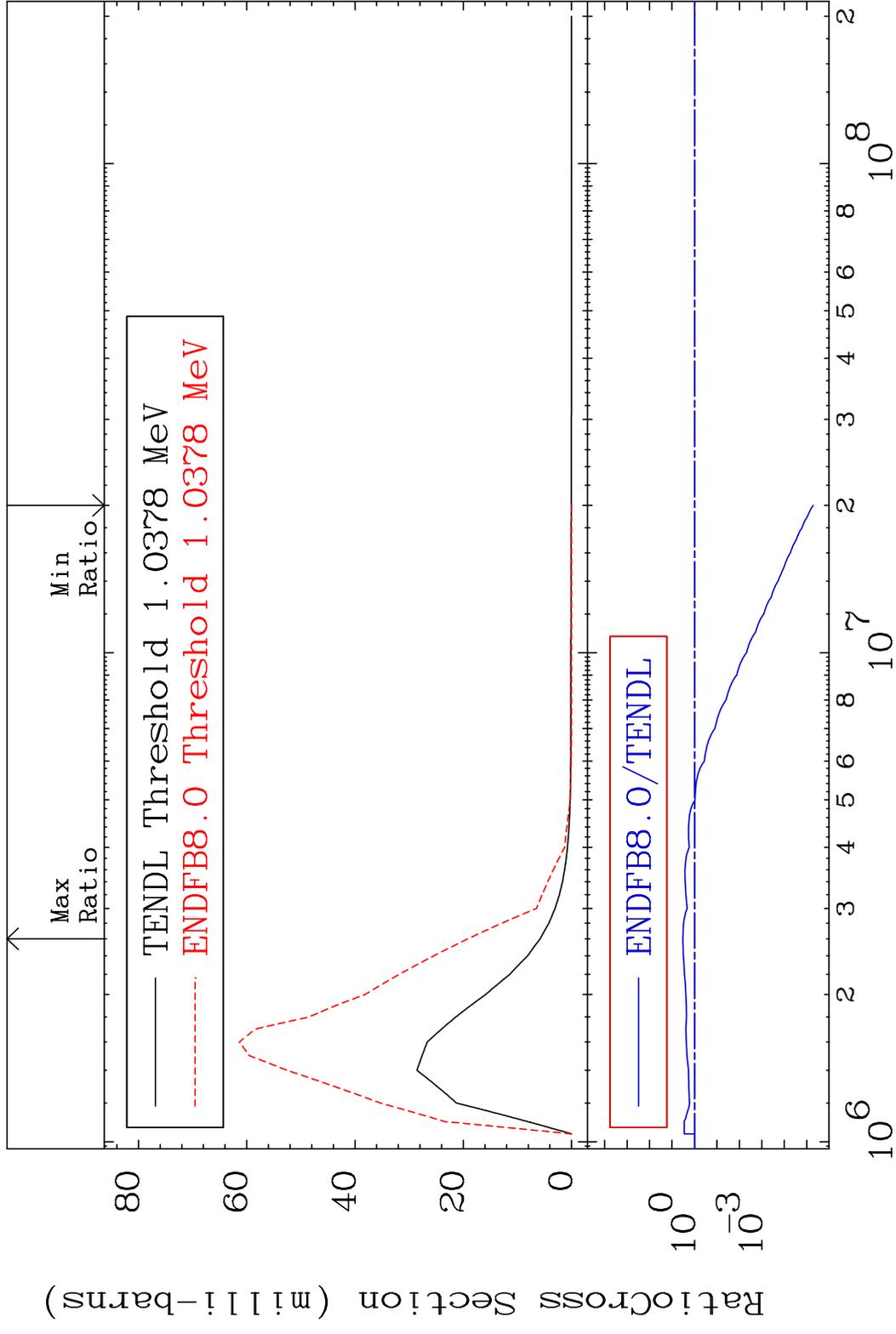
20 62-Sm-147

MAT 6234 MT= 62 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 506.5 %



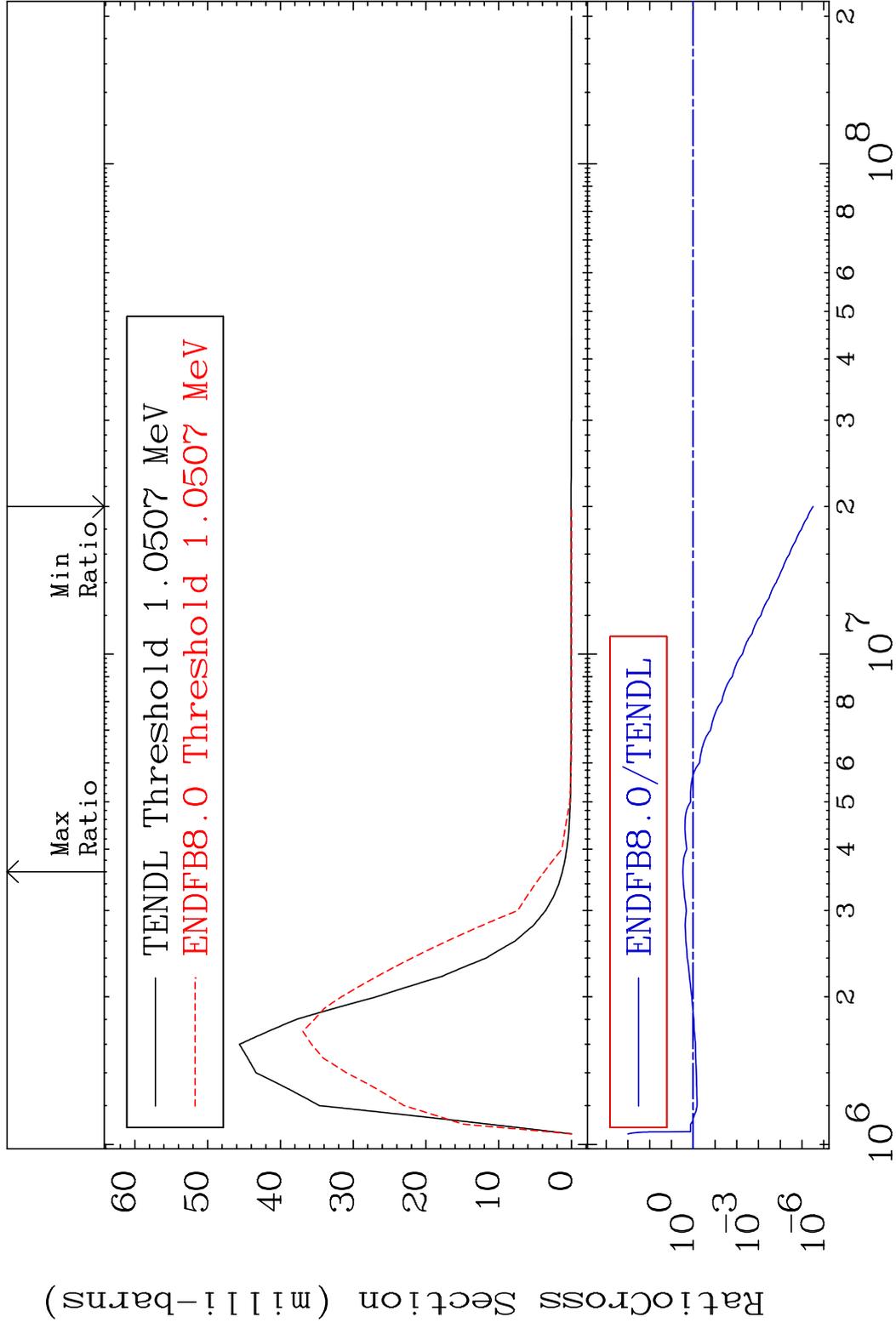
21 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 63 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 229.8 %



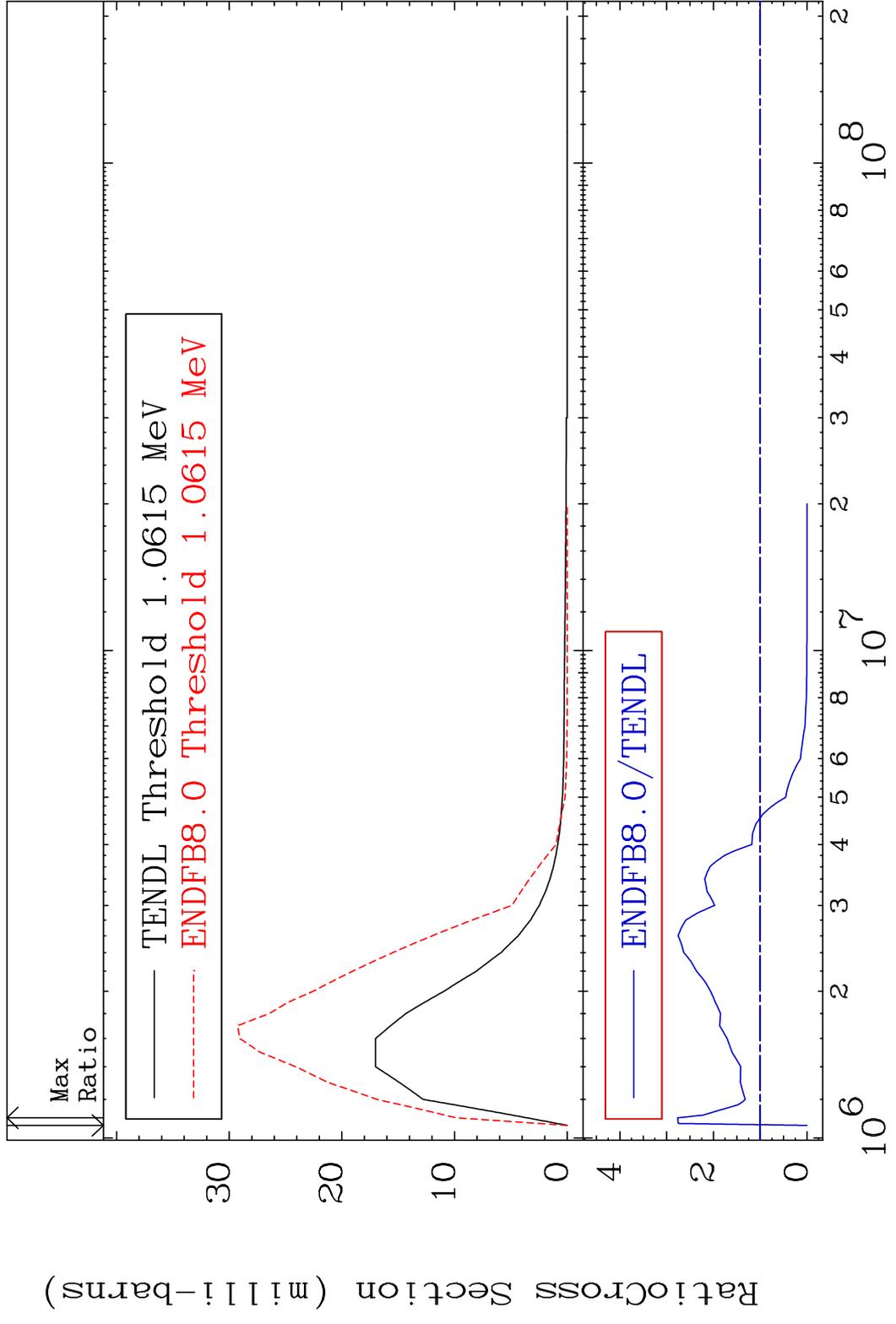
22 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 64 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 199.9 %



23 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 65 (n, n') Level 62-Sm-147  
 Cross Section -100.0 To 176.4 %



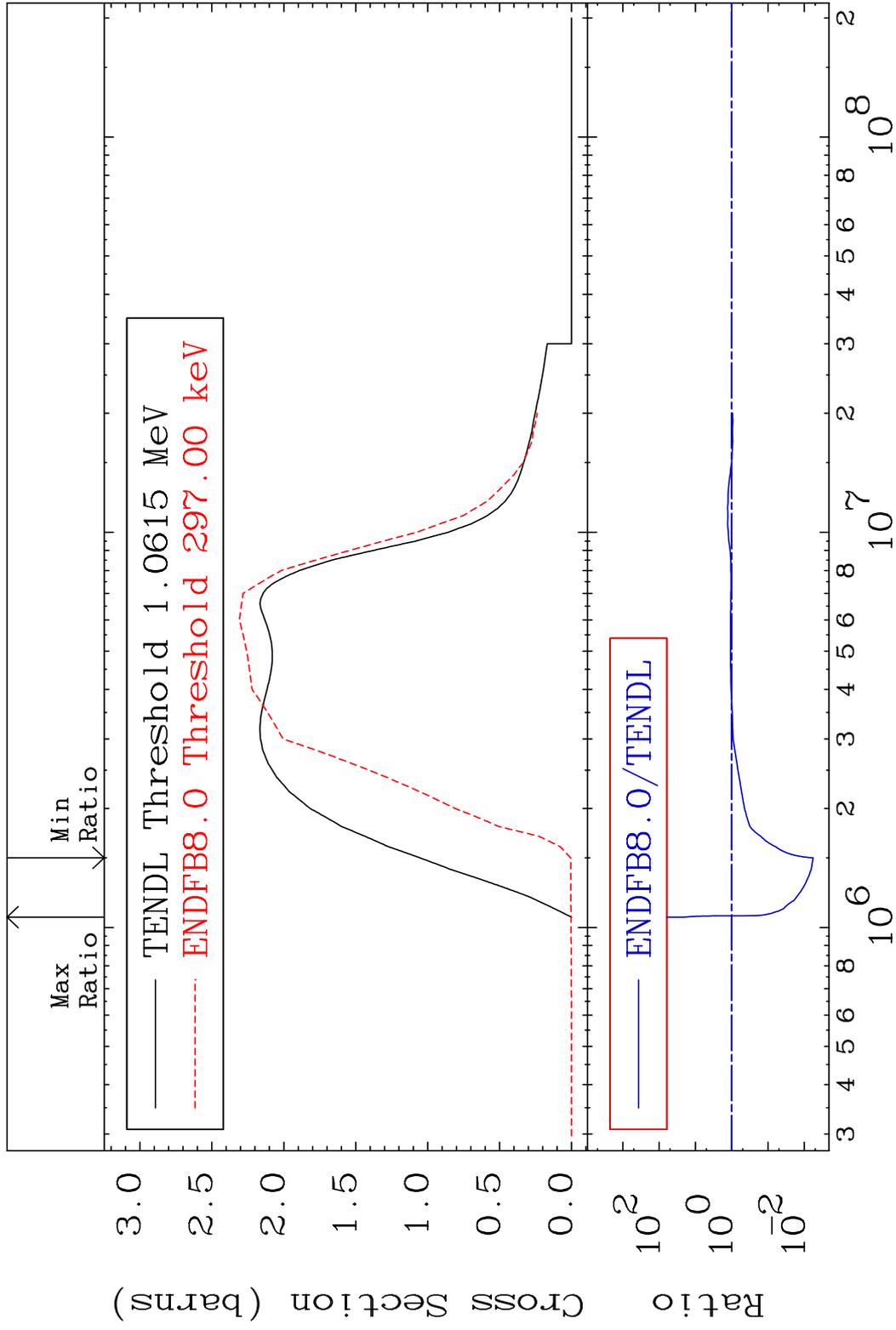
24 Incident Energy (eV) 62-Sm-147

MAT 6234

(n, n') Continuum

62-Sm-147

Cross Section -99.43 To 2135. %



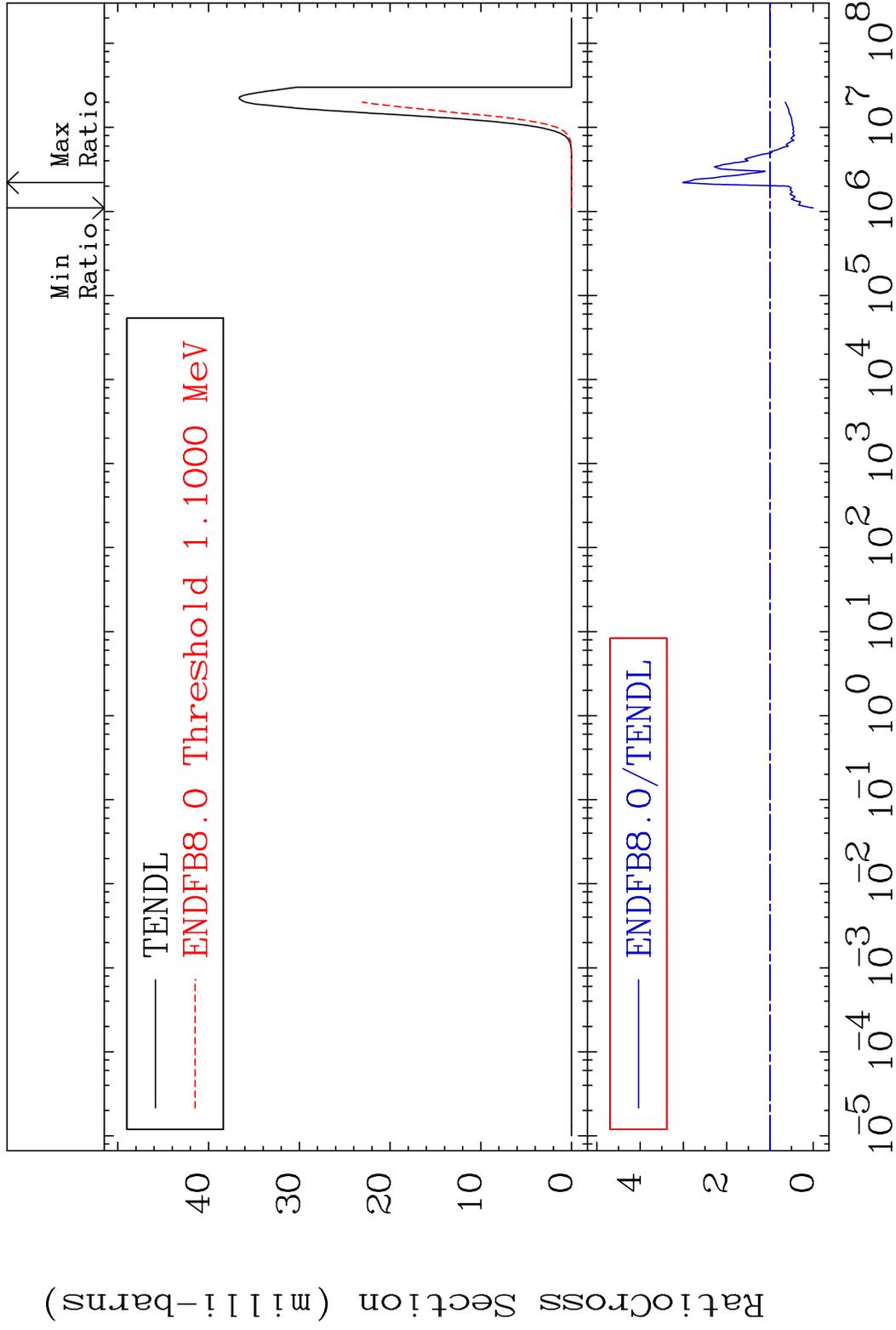


MAT 6234

(n, p)

62-Sm-147

Cross Section -100.0 To 201.3 %



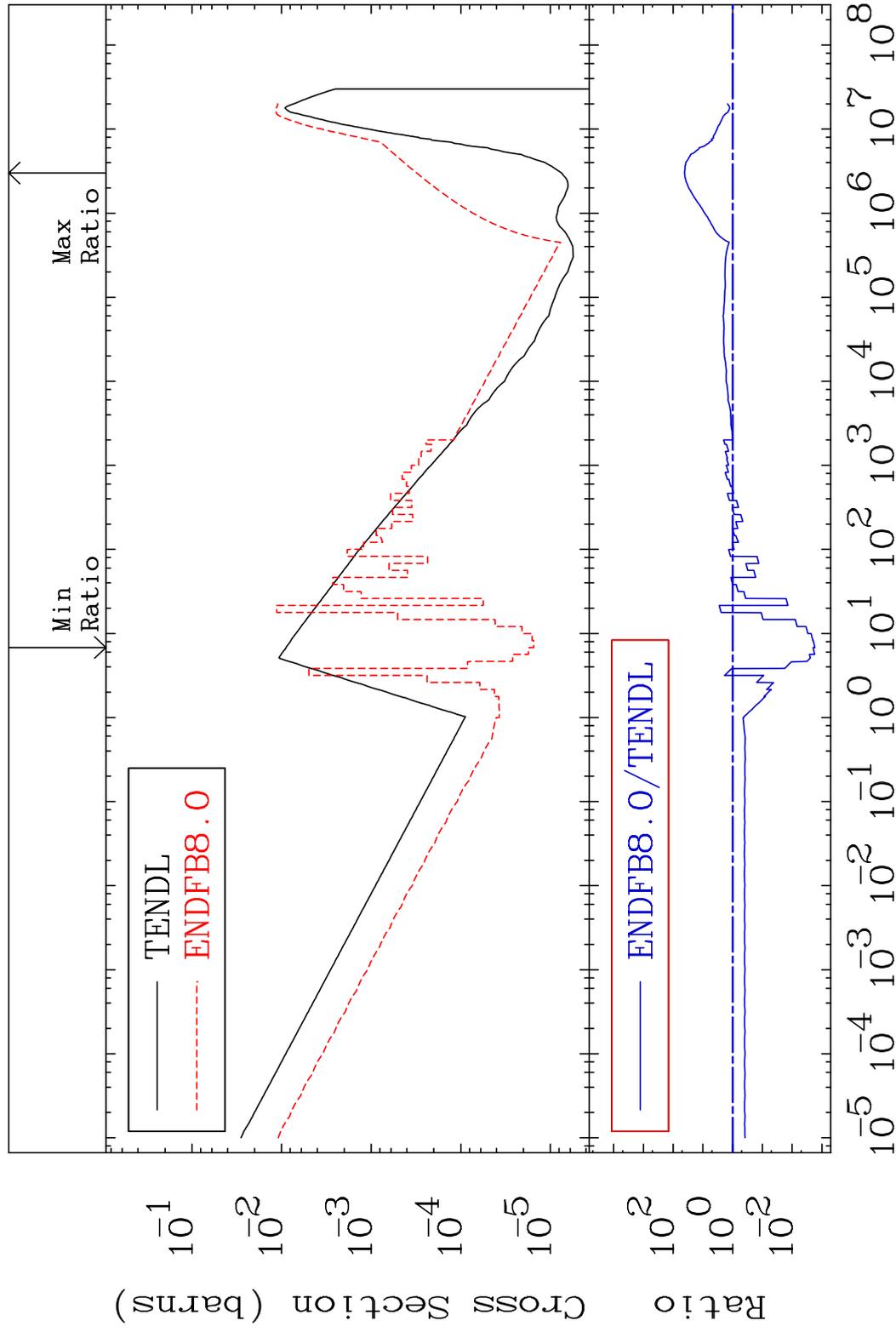
27

Incident Energy (eV)

62-Sm-147

MAT 6234

(n,  $\alpha$ )  
Cross Section -99.83 To 4048. %  
62-Sm-147



28

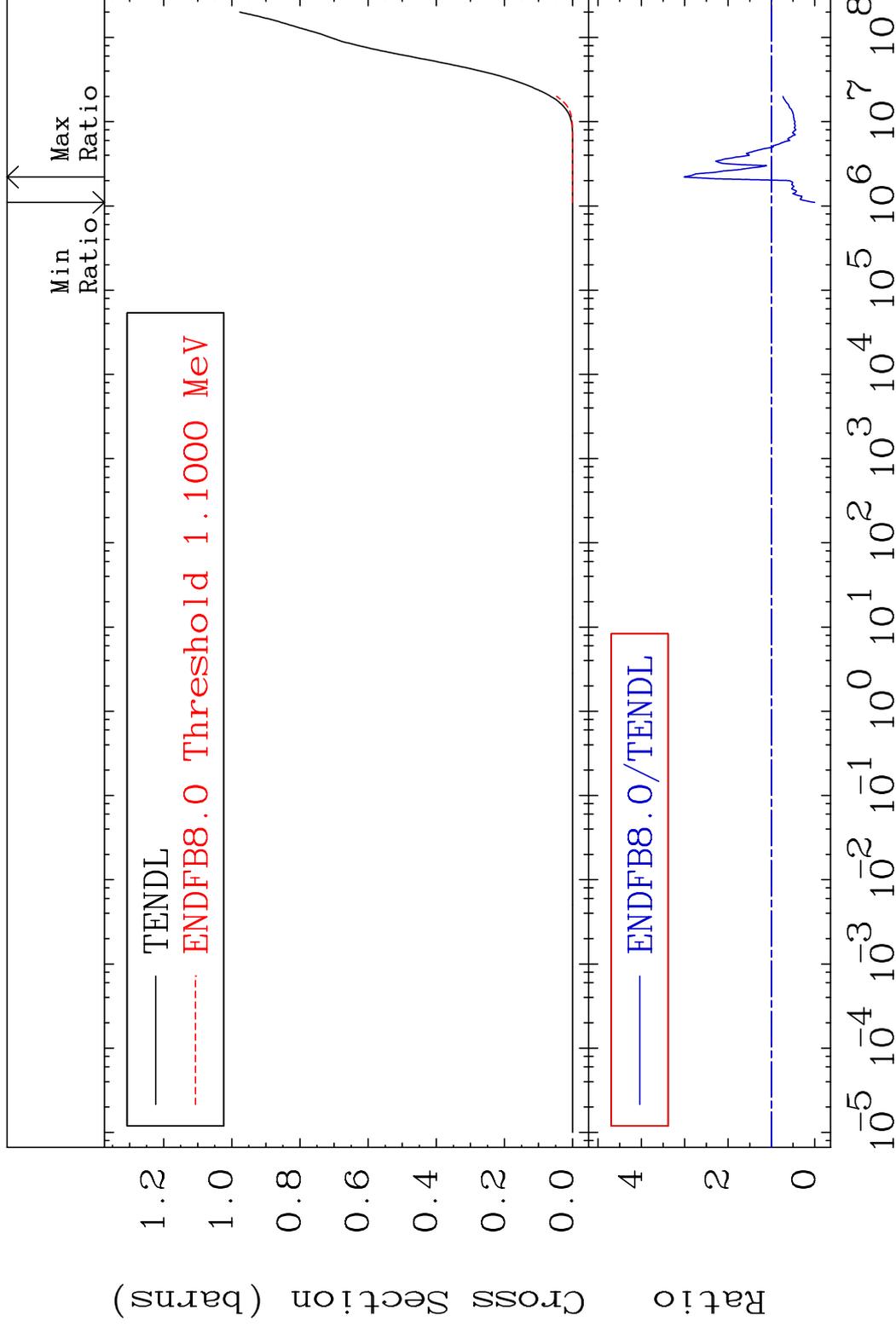
Incident Energy (eV) 62-Sm-147

MAT 6234

Hydrogen Production

62-Sm-147

Cross Section -100.0 To 201.3 %



29

Incident Energy (eV)

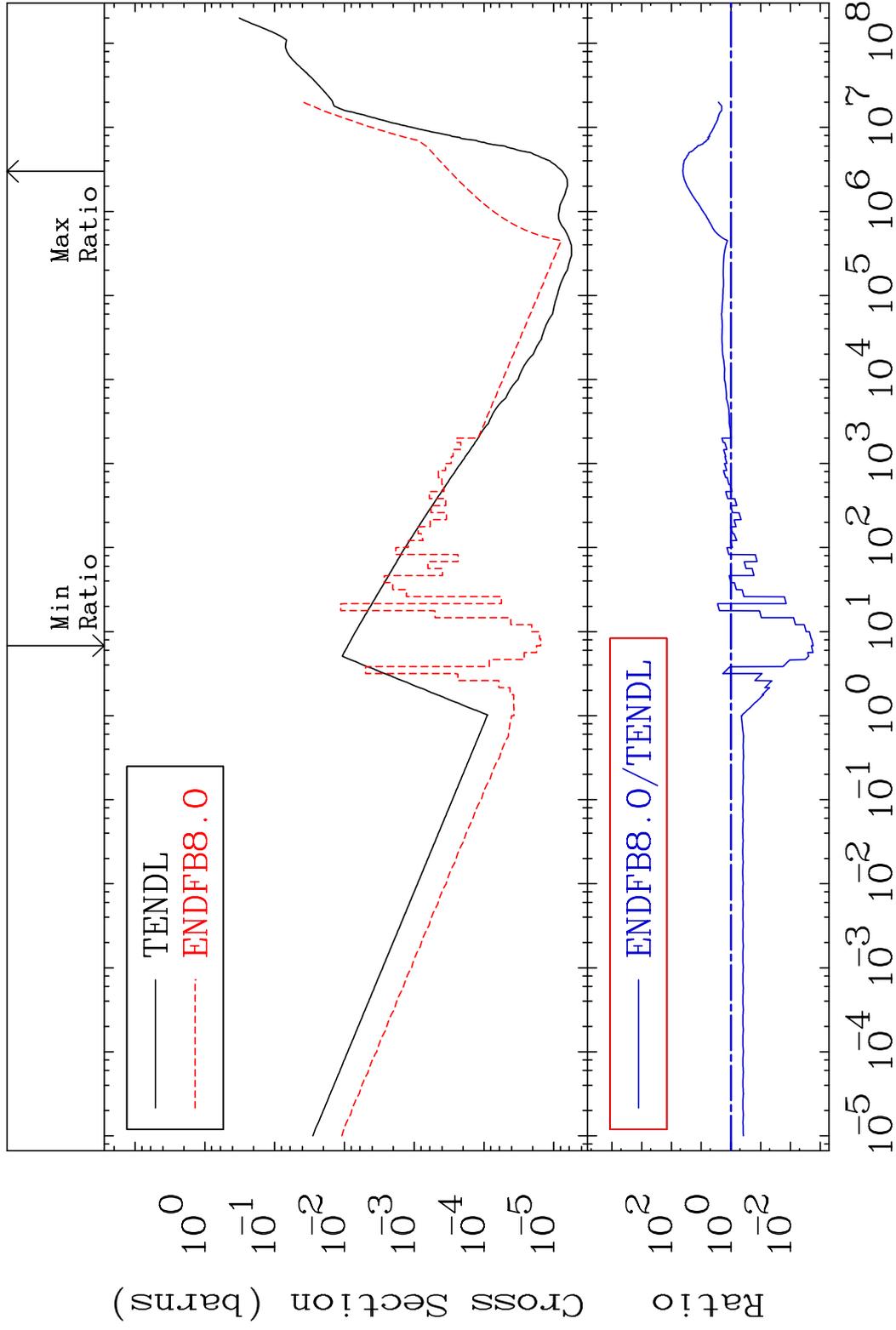
62-Sm-147

MAT 6234

He-4 Production

62-Sm-147

Cross Section -99.83 To 4048. %

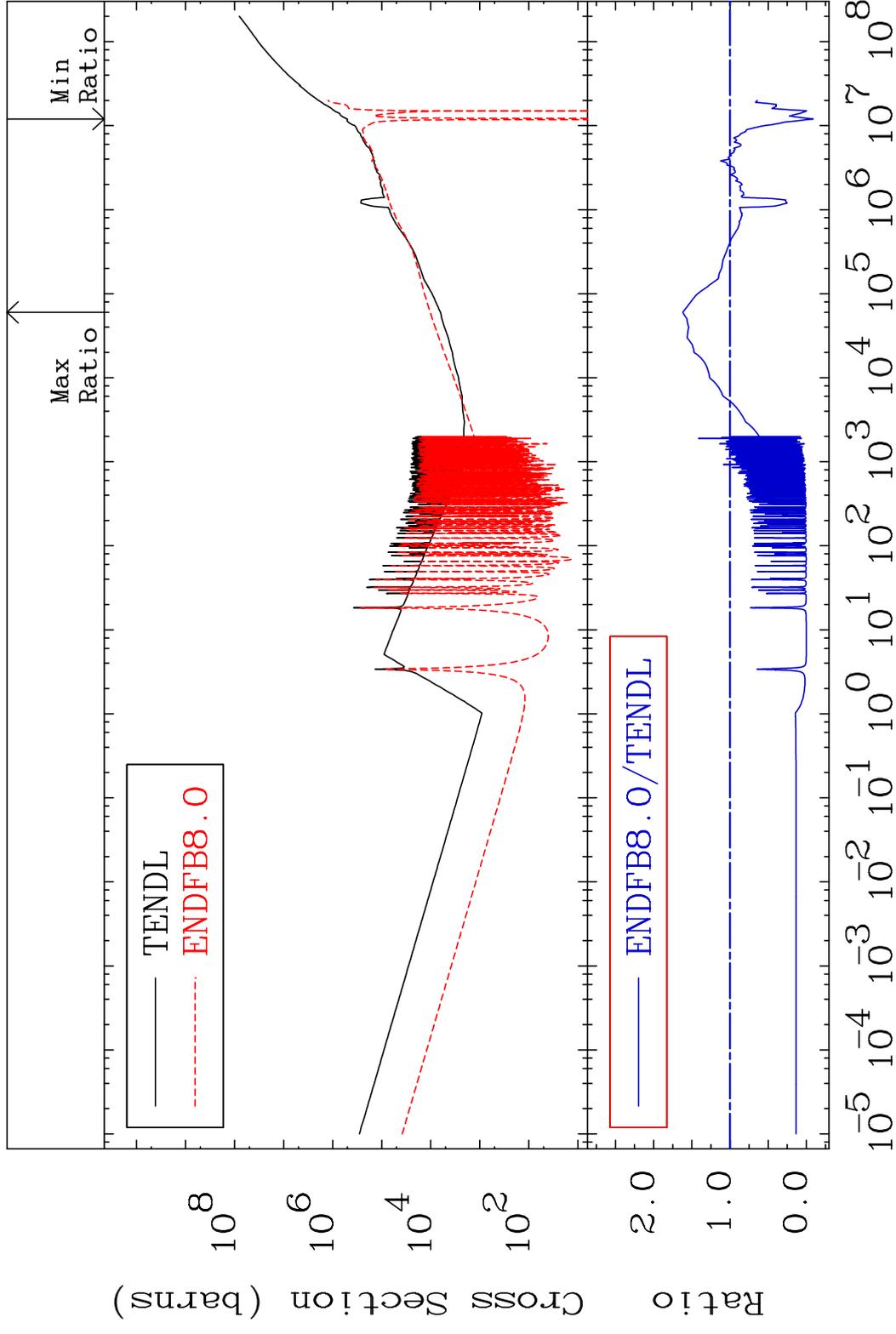


30

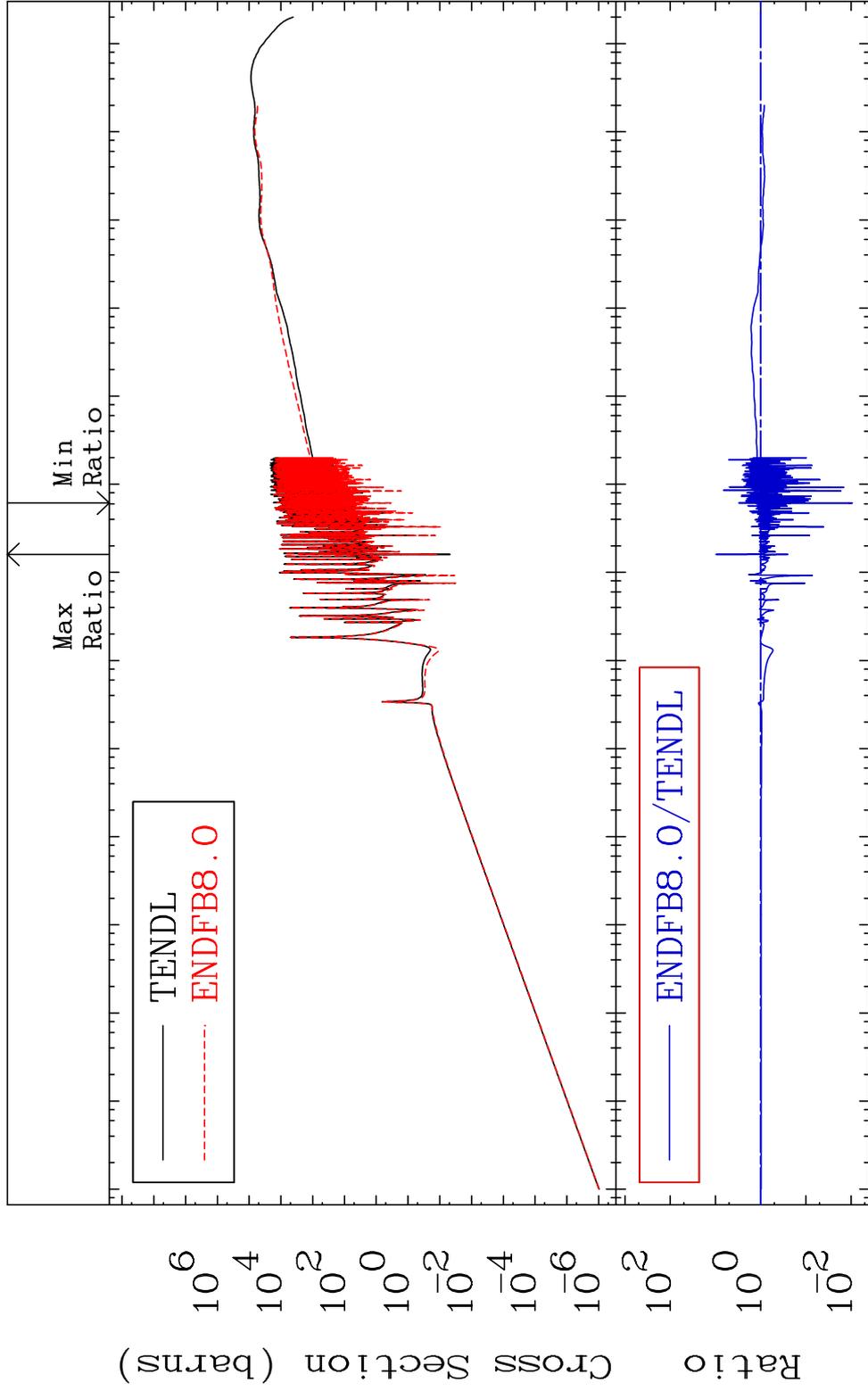
Incident Energy (eV)

62-Sm-147

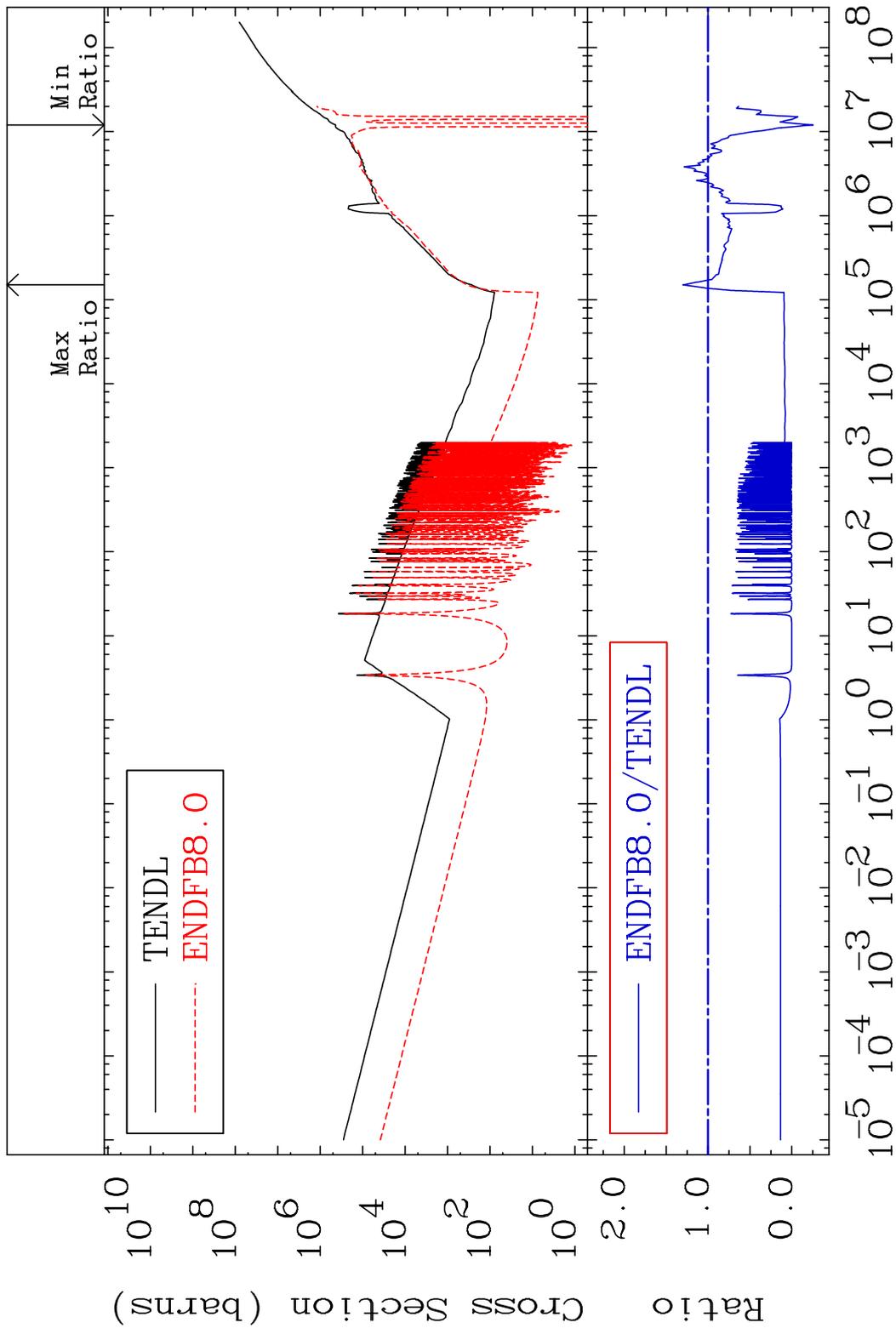
MAT 6234 Kerma total (eV-barns) 62-Sm-147  
 Cross Section -108.9 To 61.80 %



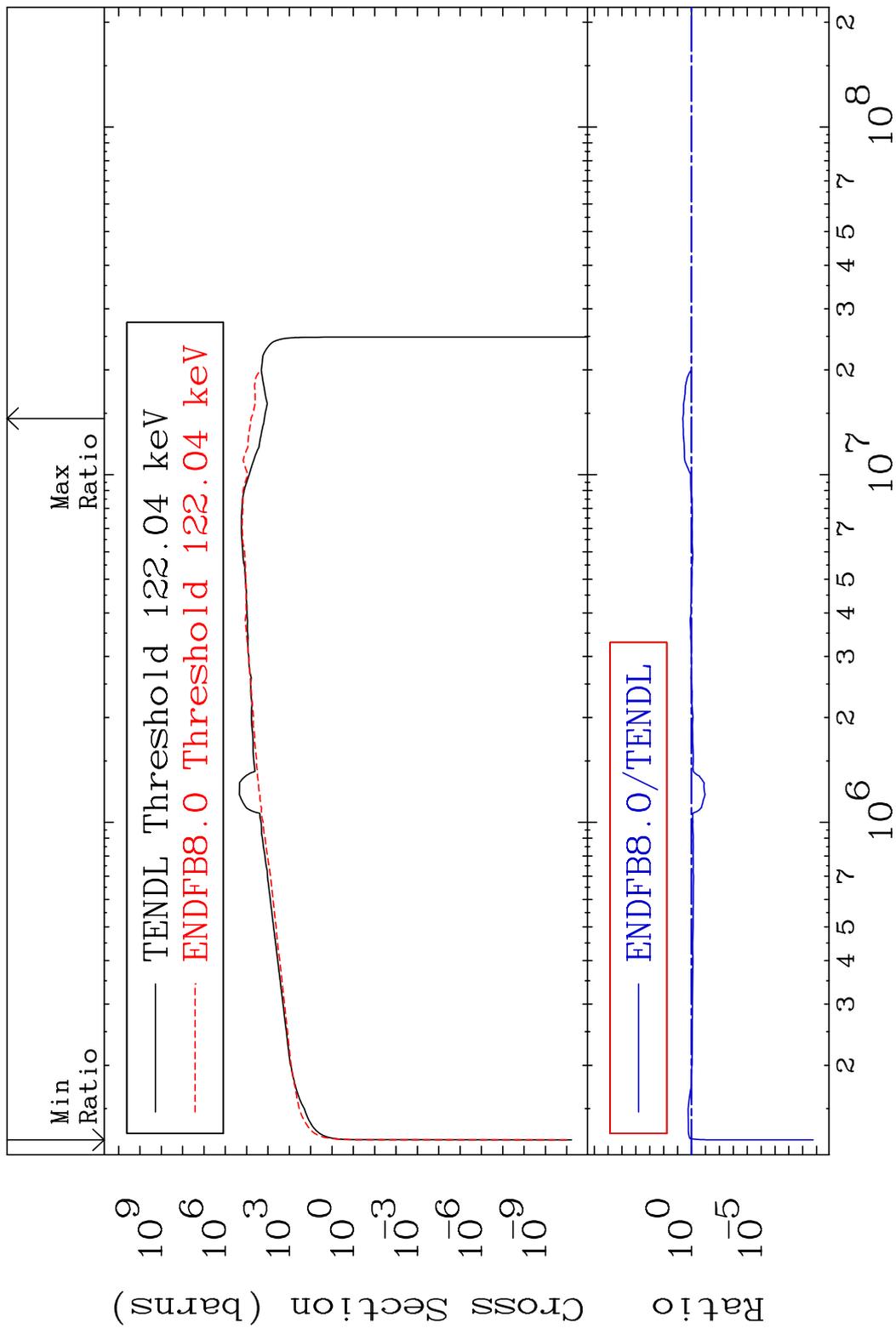
MAT 6234      Kerma elastic      62-Sm-147  
 Cross Section      -99.07 To 880.9 %



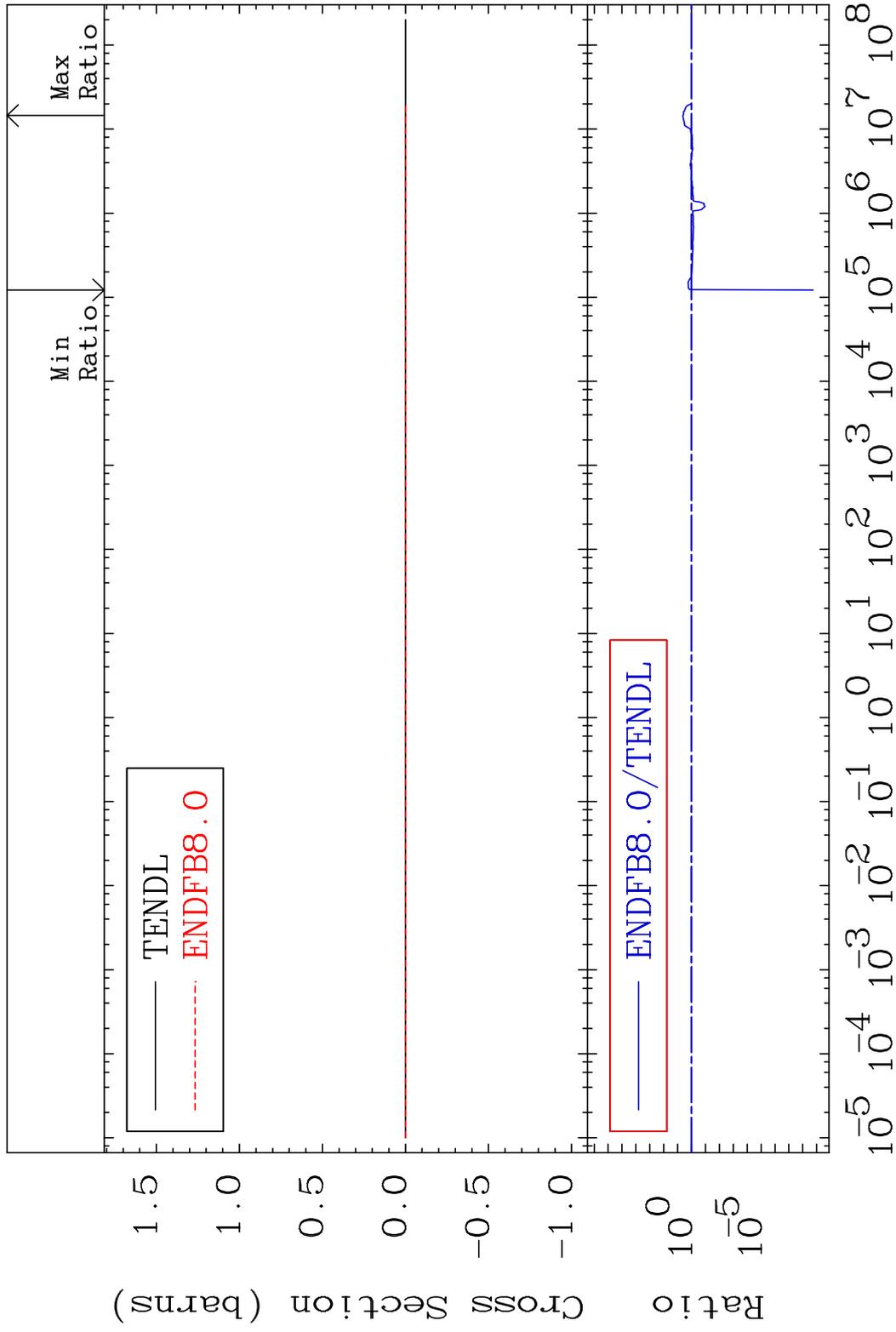
MAT 6234 Kerma non-elastic (all but mt2) 62-Sm-147  
 Cross Section -125.4 To 30.10 %



MAT 6234 Kerma inelastic (mt51-91) 62-Sm-147  
 Cross Section -100.0 To 322.8 %



MAT 6234 Kerma fission (mt18 or mt19-20-21-38)  $^{62}\text{Sm}$ -147  
 Cross Section -100.0 To 322.8 %

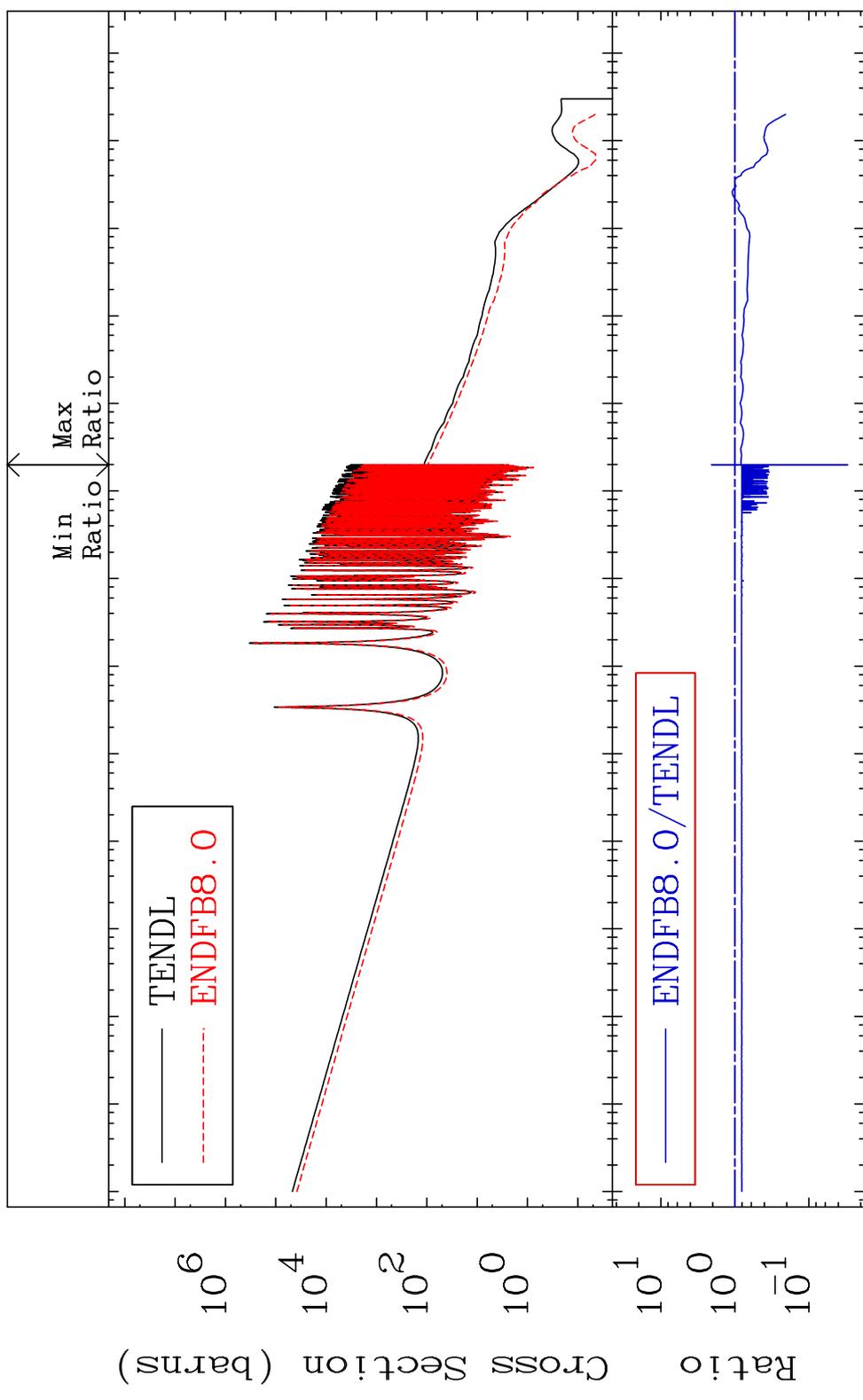


MAT 6234

Kerma capture (mt102)

62-Sm-147

Cross Section -97.00 To 105.8 %



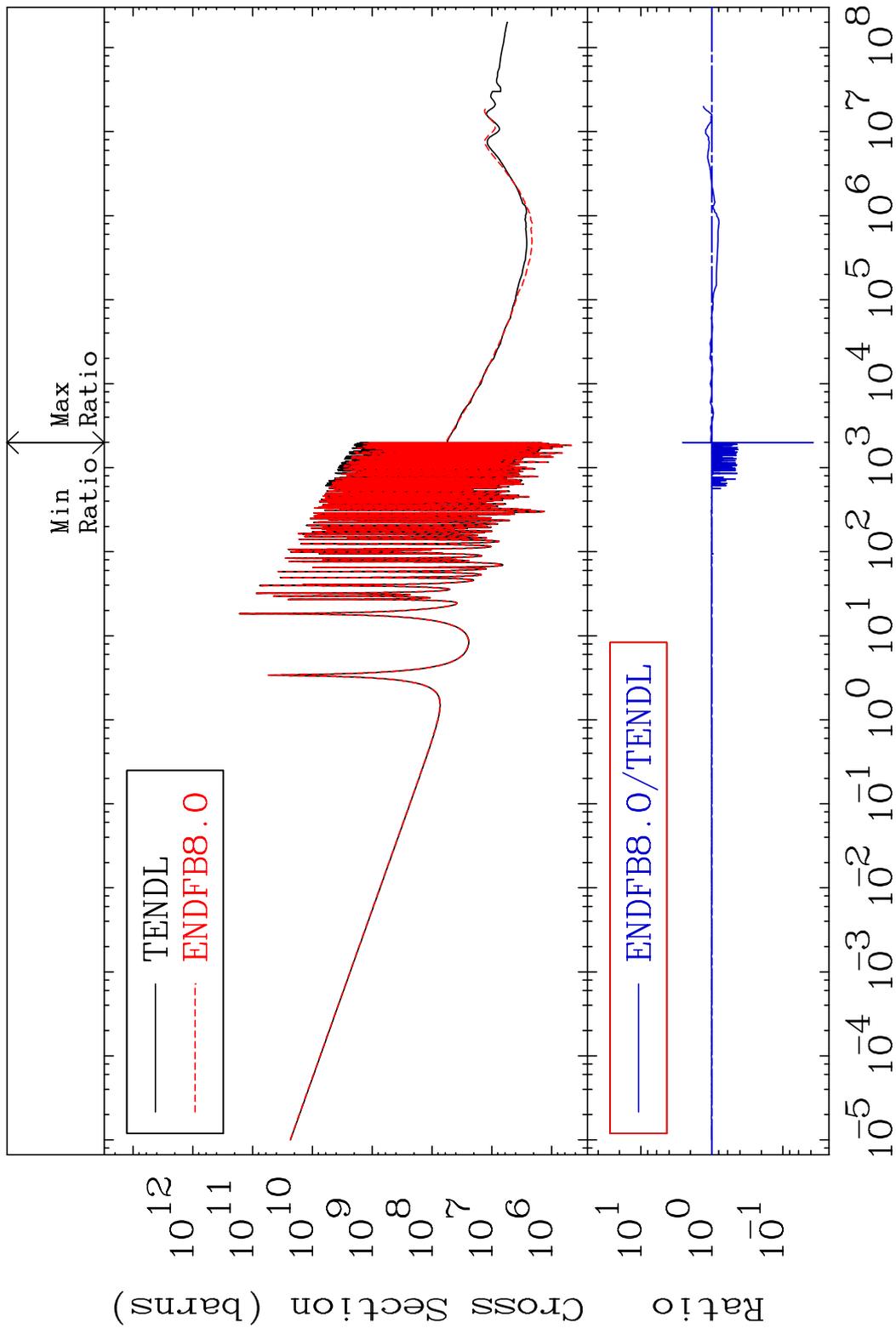
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

36

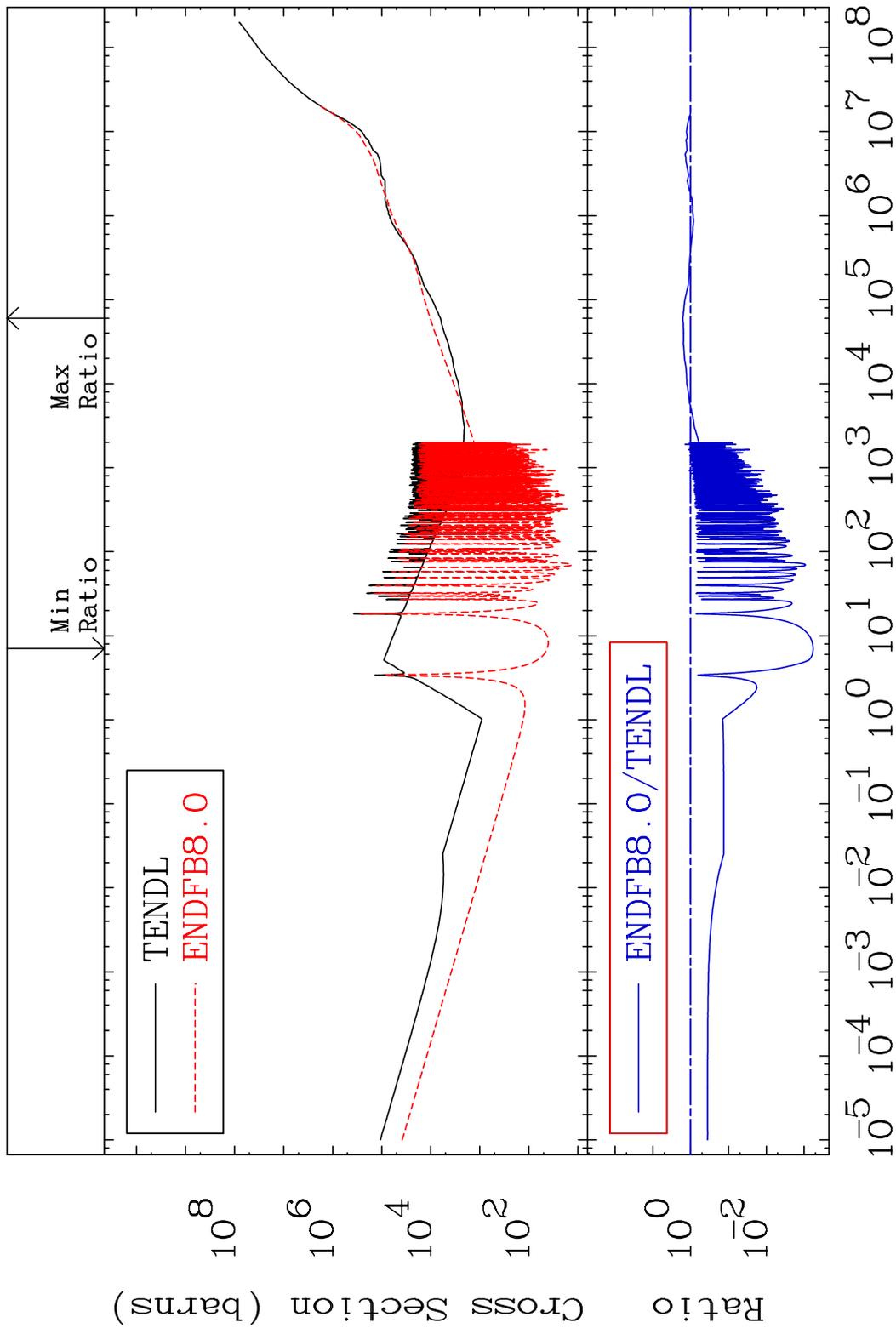
Incident Energy (eV)

62-Sm-147

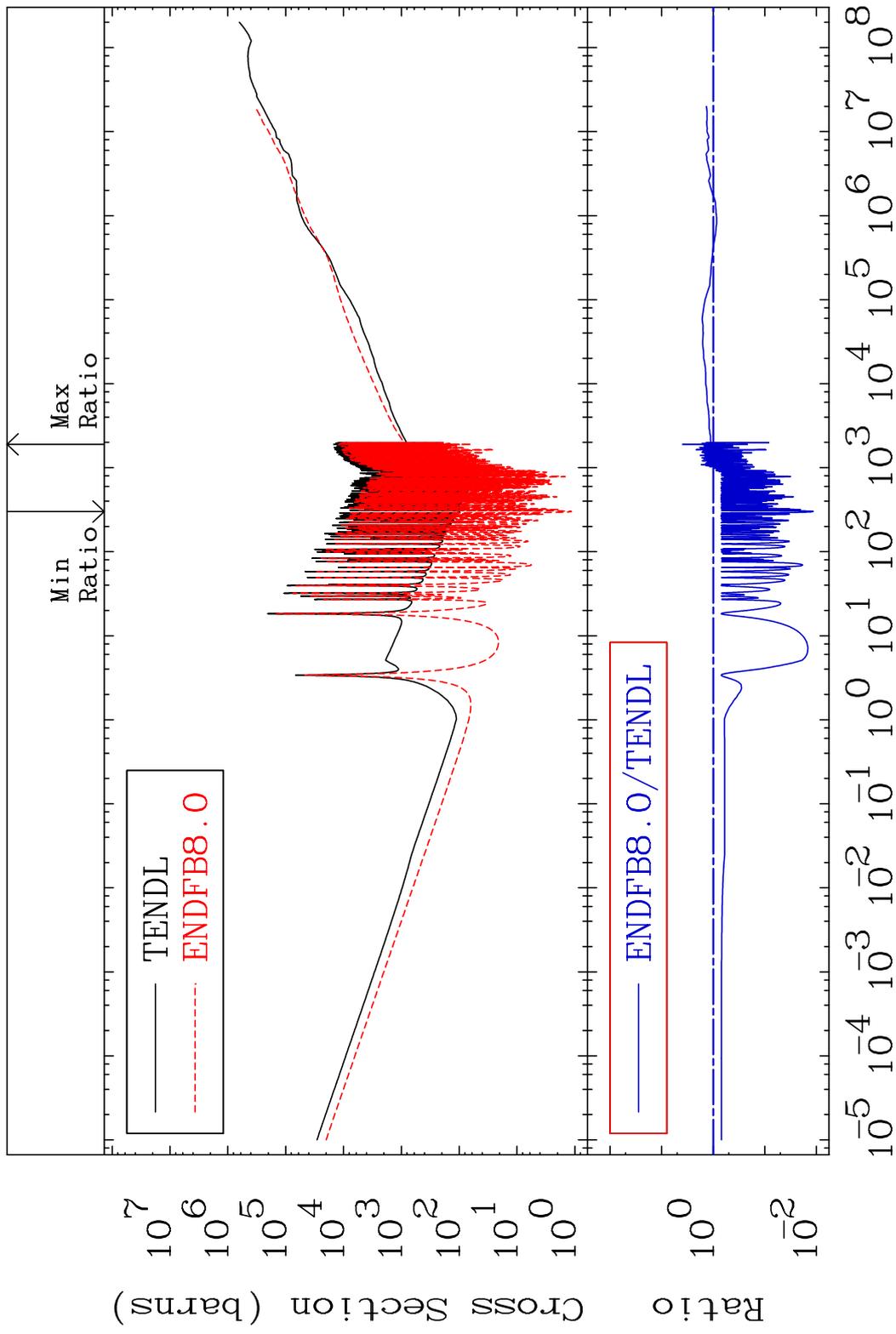
MAT 6234 Total photon (eV-barns) 62-Sm-147  
 Cross Section -96.27 To 155.9 %



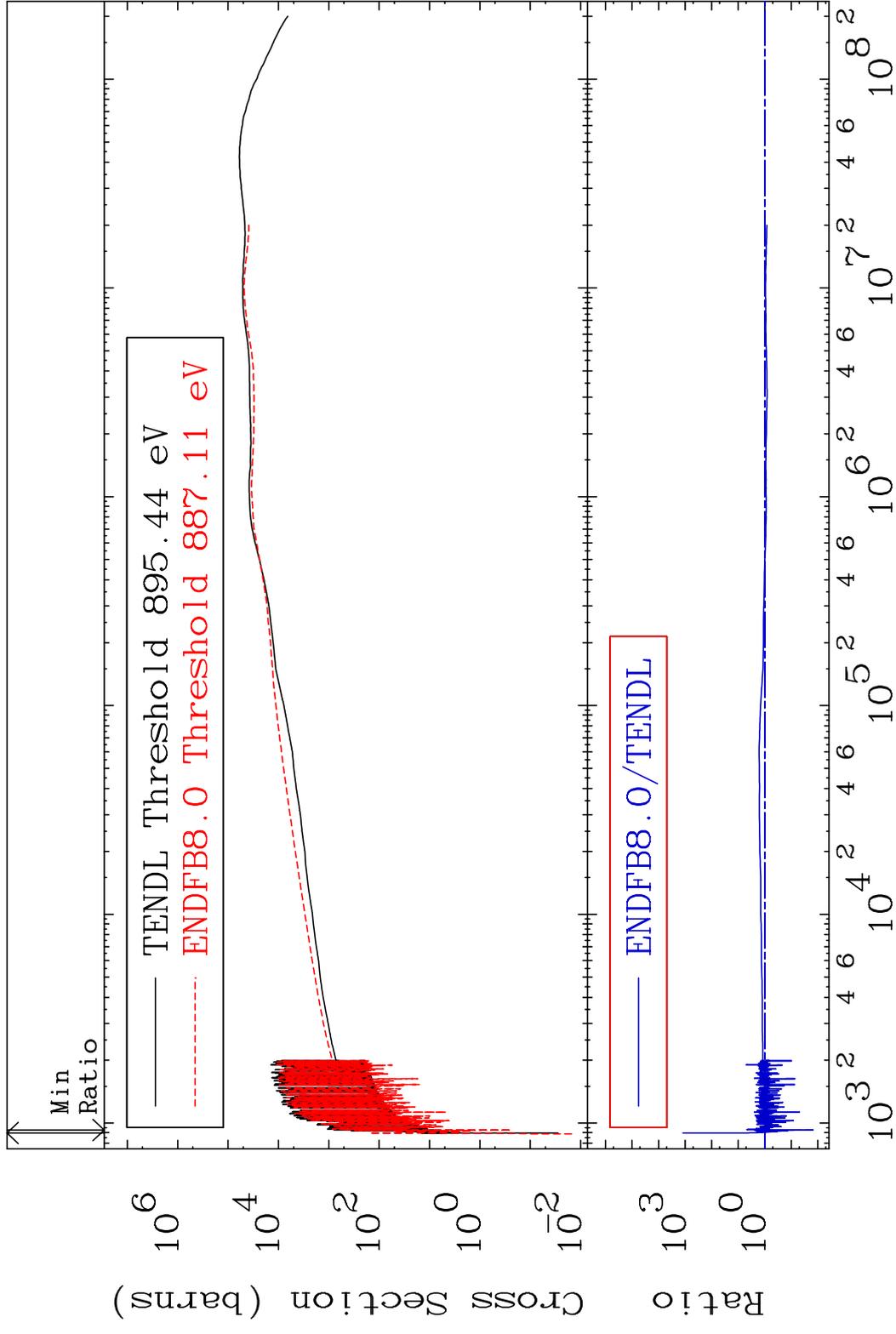
MAT 6234 Total kinematic kerma (high limit) 62-Sm-147  
 Cross Section -99.94 To 61.78 %



MAT 6234      Dpa total (eV-barns)      62-Sm-147  
 Cross Section      -98.85 To 289.2 %

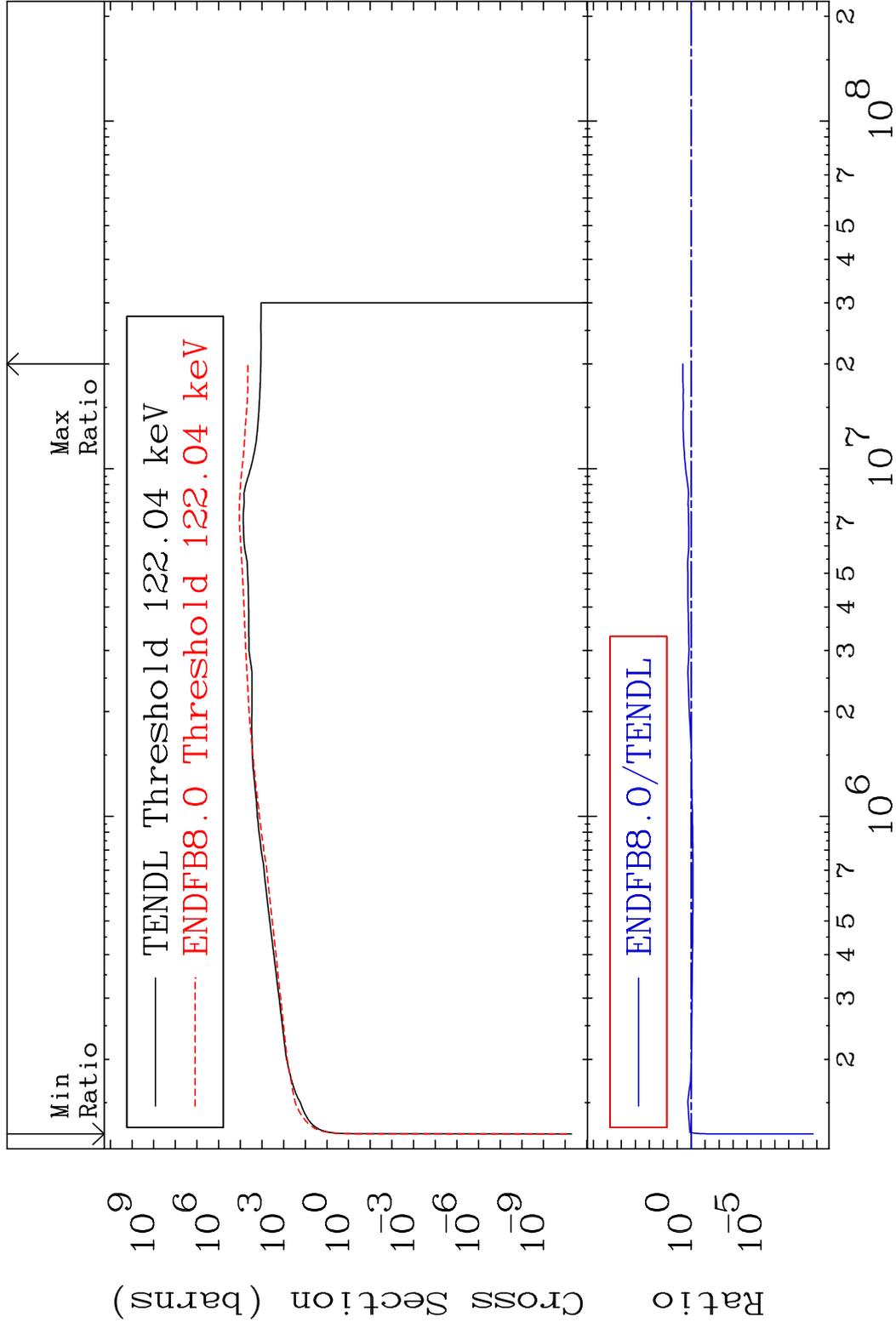


MAT 6234      Dpa elastic (mt2)      62-Sm-147  
 Cross Section      -98.50 To 9999. %



40      Incident Energy (eV)      62-Sm-147

MAT 6234      Dpa inelastic (mt51-91)      62-Sm-147  
 Cross Section      -100.0 To 292.9 %



MAT 6234 Dpa disappearance (mt102 -120) 62-Sm-147  
 Cross Section -98.85 To 1261. %

