

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

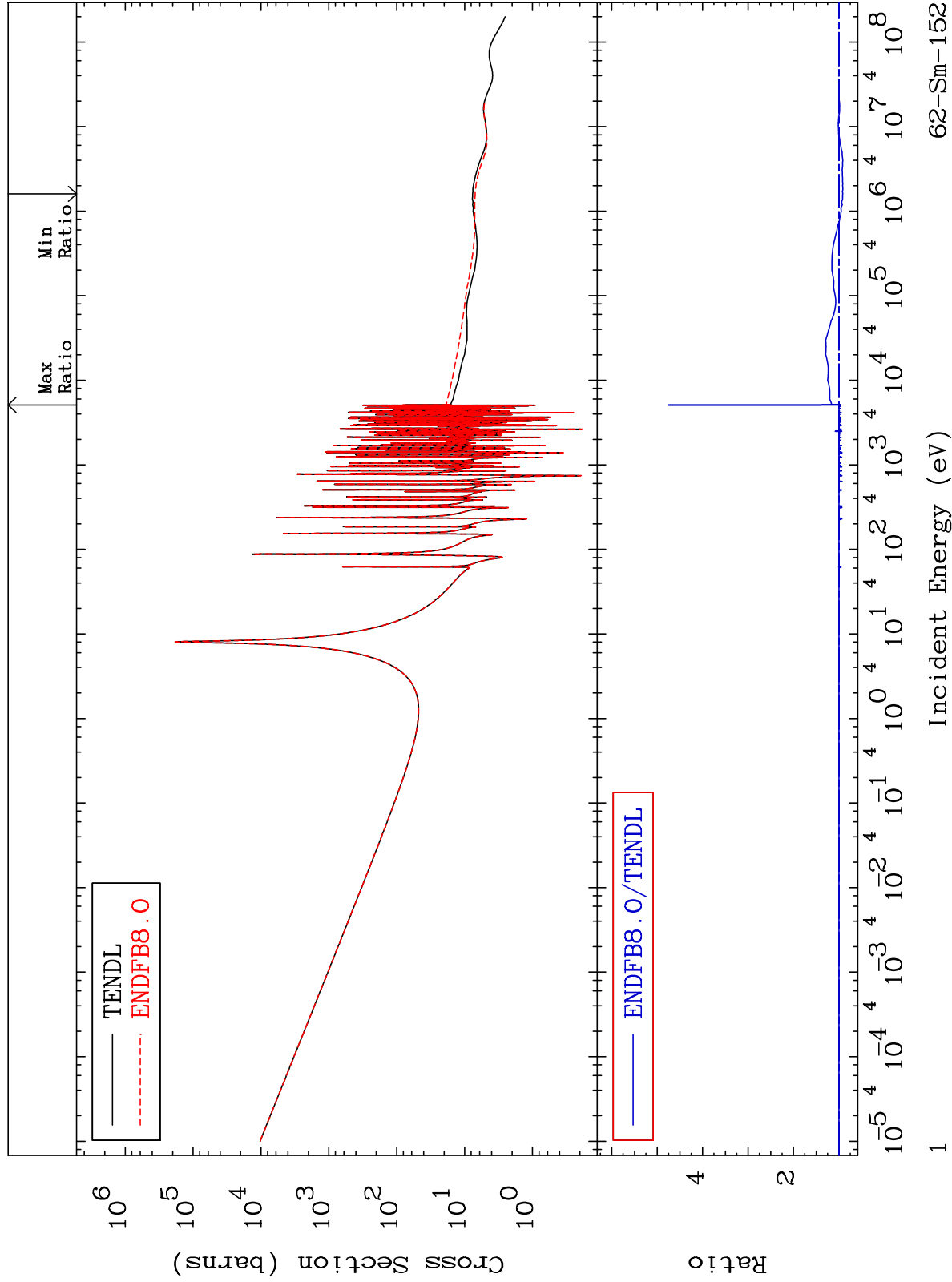
MAT 6249

Total

Cross Section

62-Sm-152

-8.637 To 376.2 %



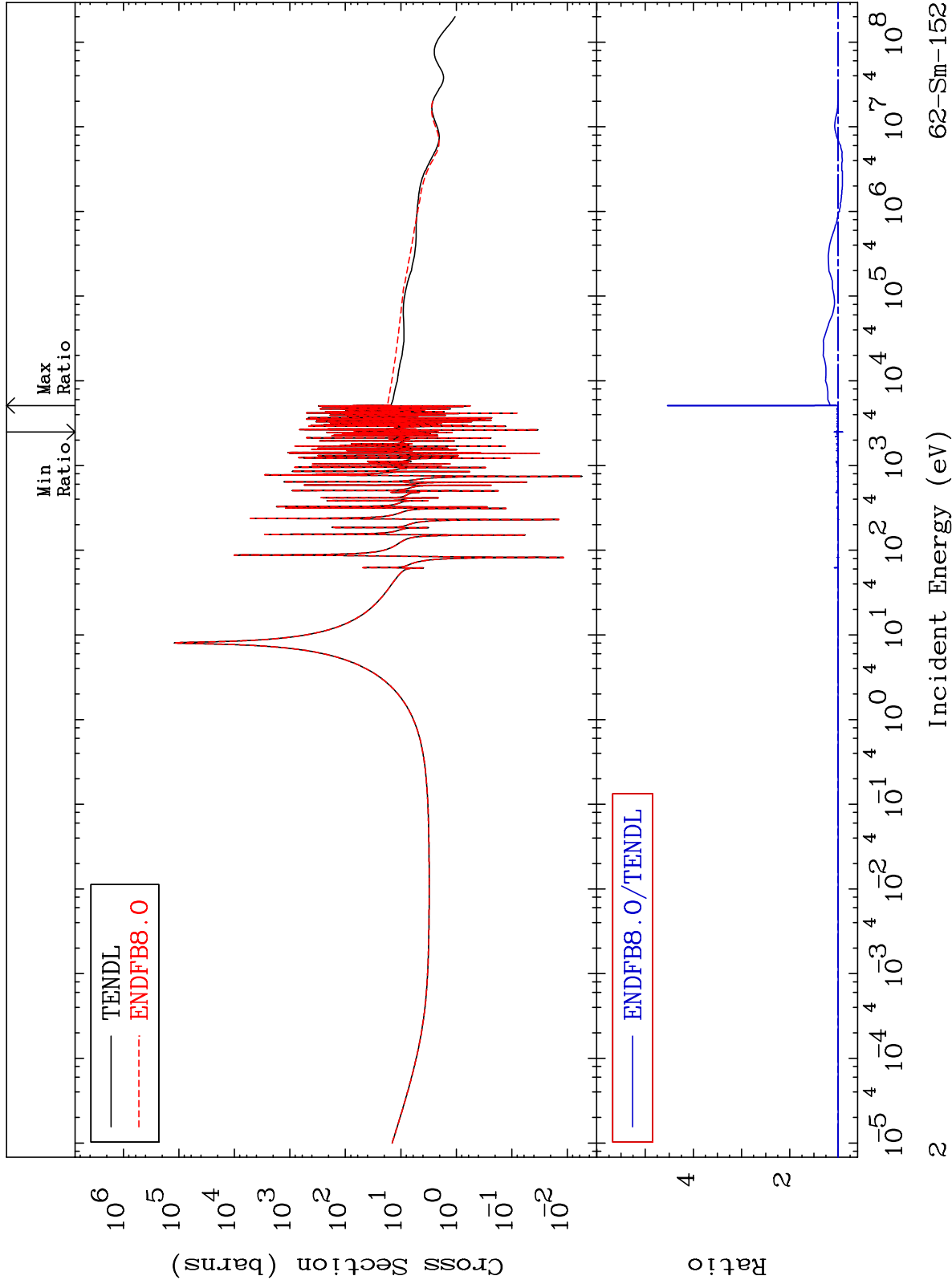
MAT 6249

Elastic

Cross Section

62-Sm-152

-9.623 To 353.5 %



62-Sm-152

Incident Energy (eV)

2



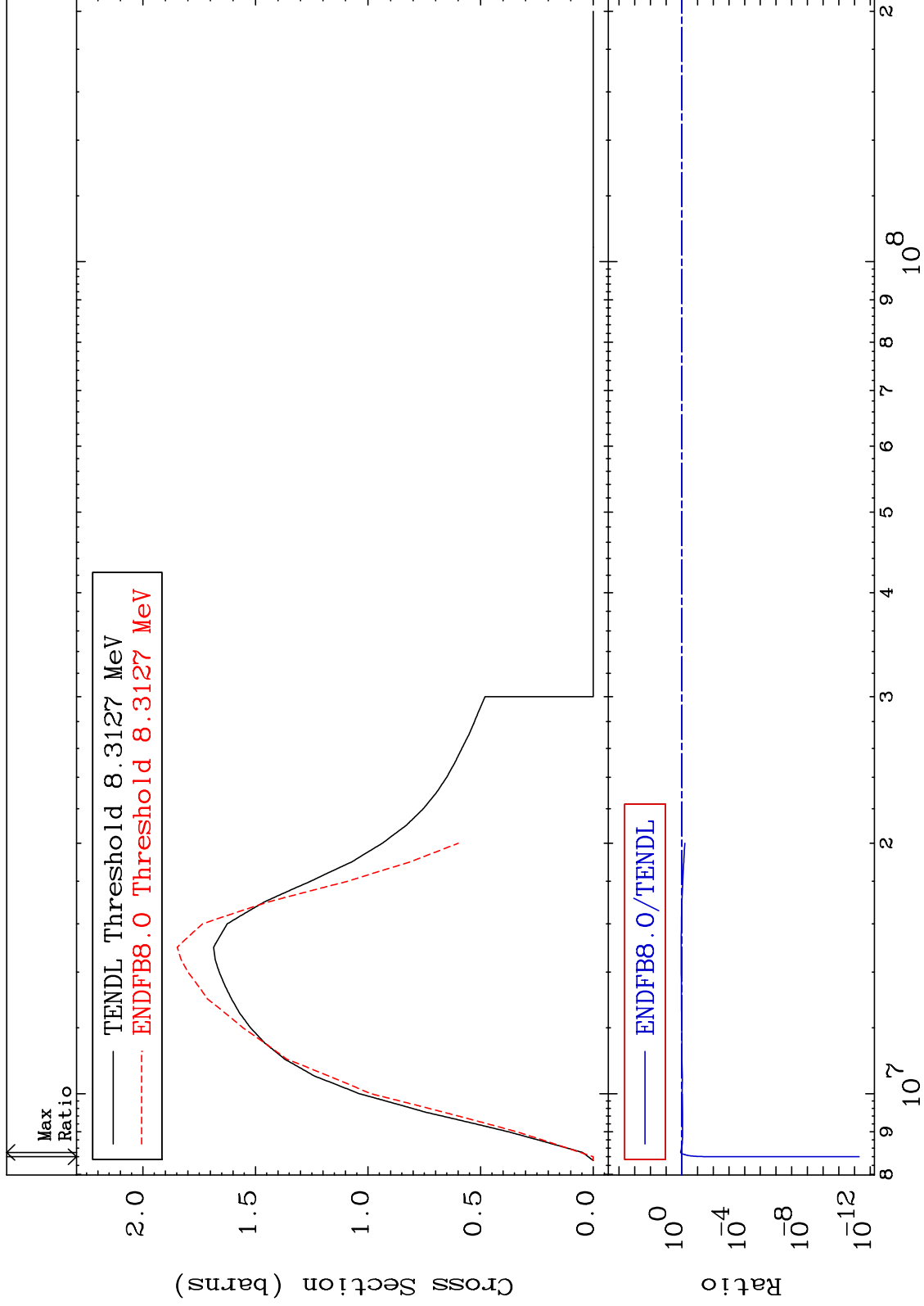
MAT 6249

(n,2n)

62-Sm-152

Cross Section

-100.0 To 19.47 %



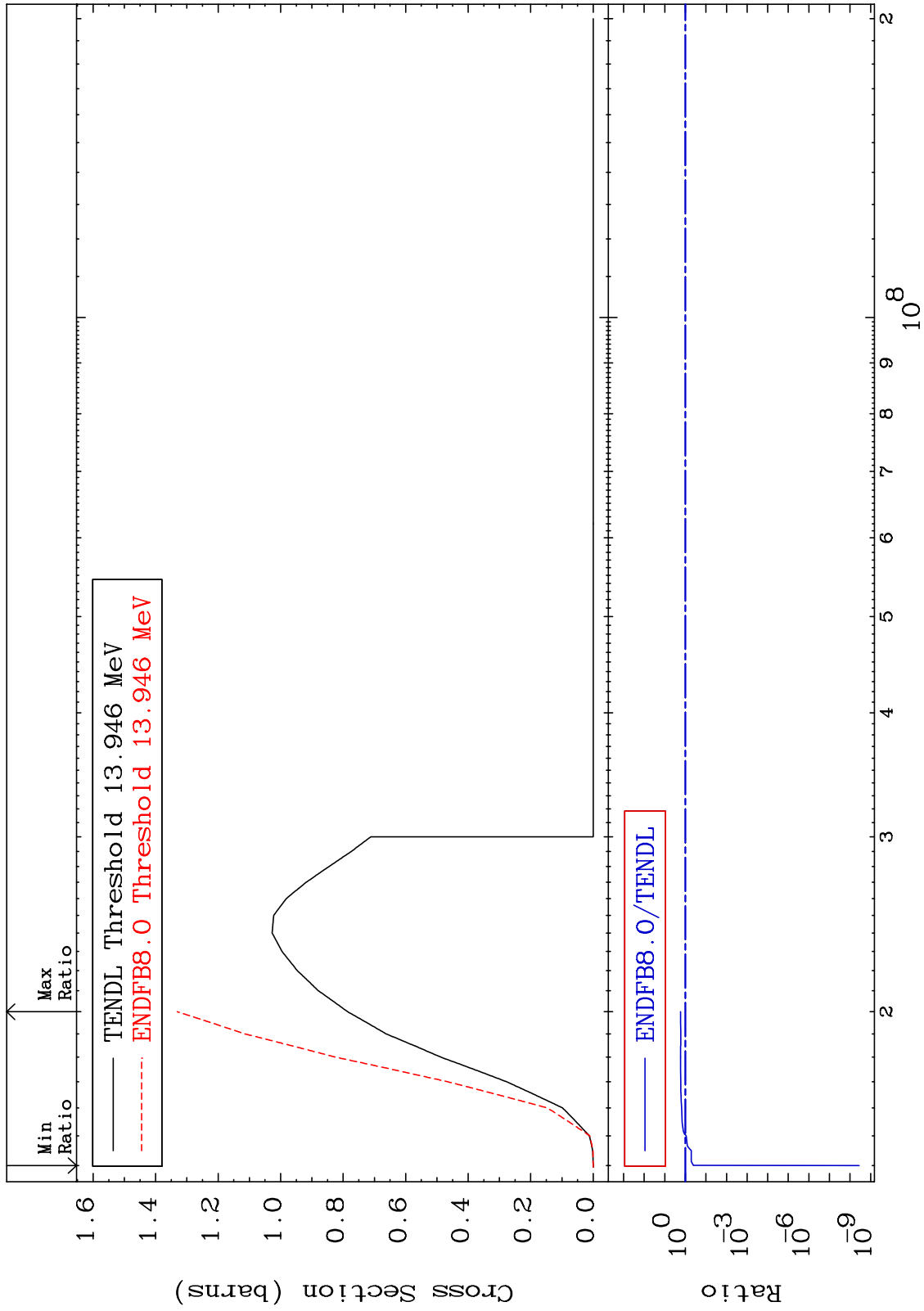
MAT 6249

(n,3n)

62-Sm-152

Cross Section

-100.0 To 69.36 %



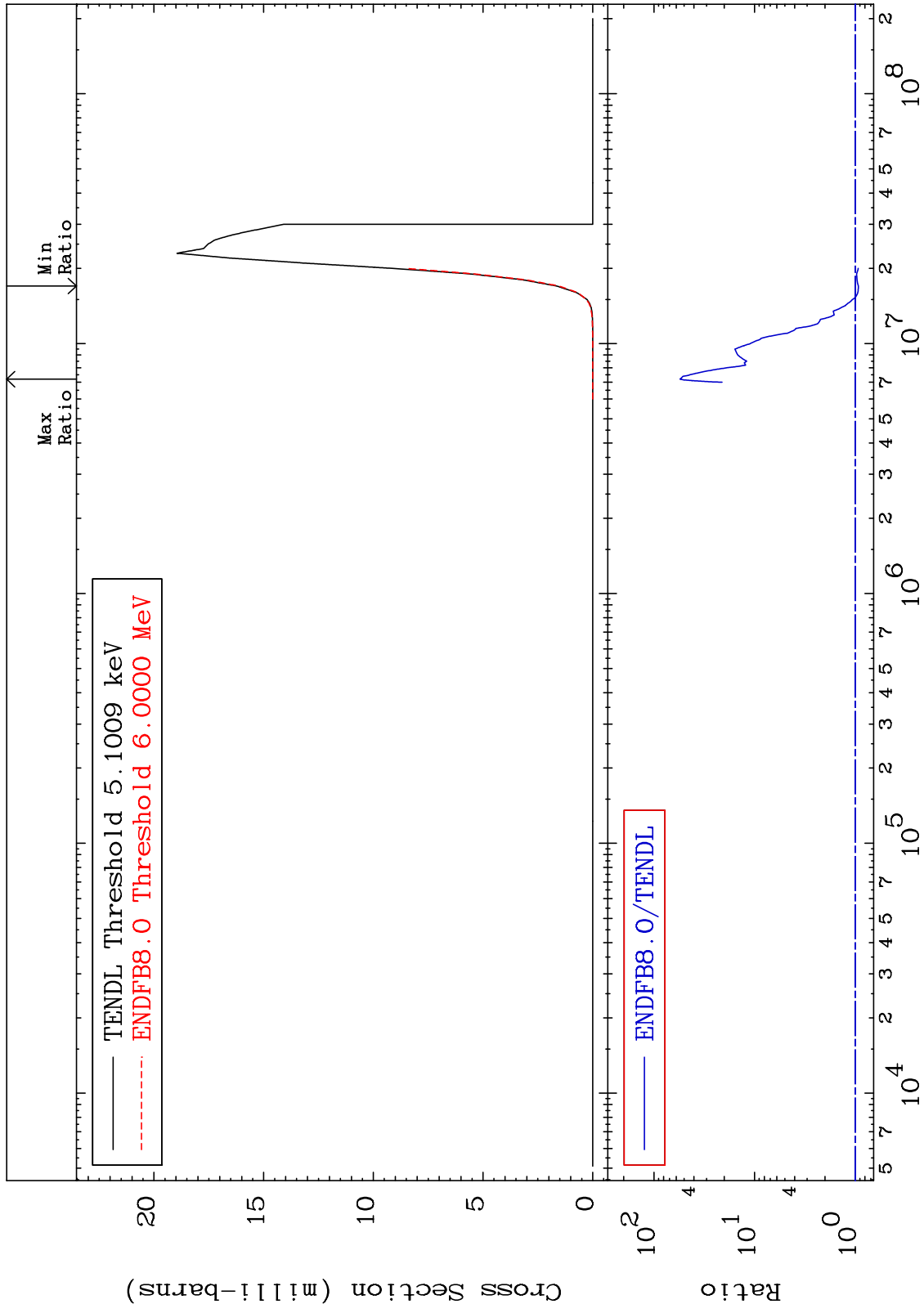
MAT 6249

(n,n')  $\alpha$

62-Sm-152

Cross Section

-7.013 To 5401. %



62-Sm-152

Incident Energy (eV)

6

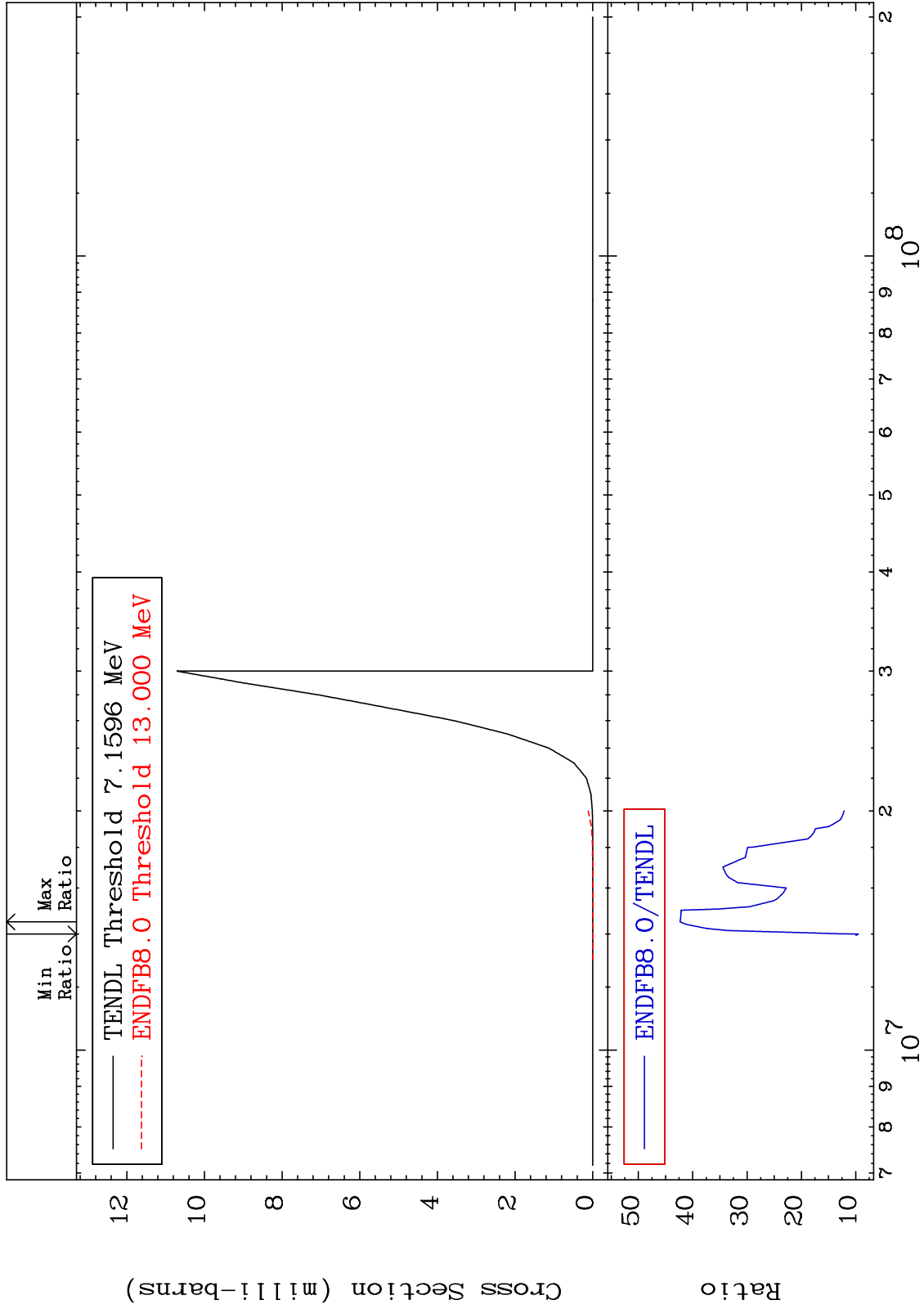
MAT 6249

(n,2n)  $\alpha$

62-Sm-152

Cross Section

849.8 To 4134. %



7

Incident Energy (eV)

62-Sm-152



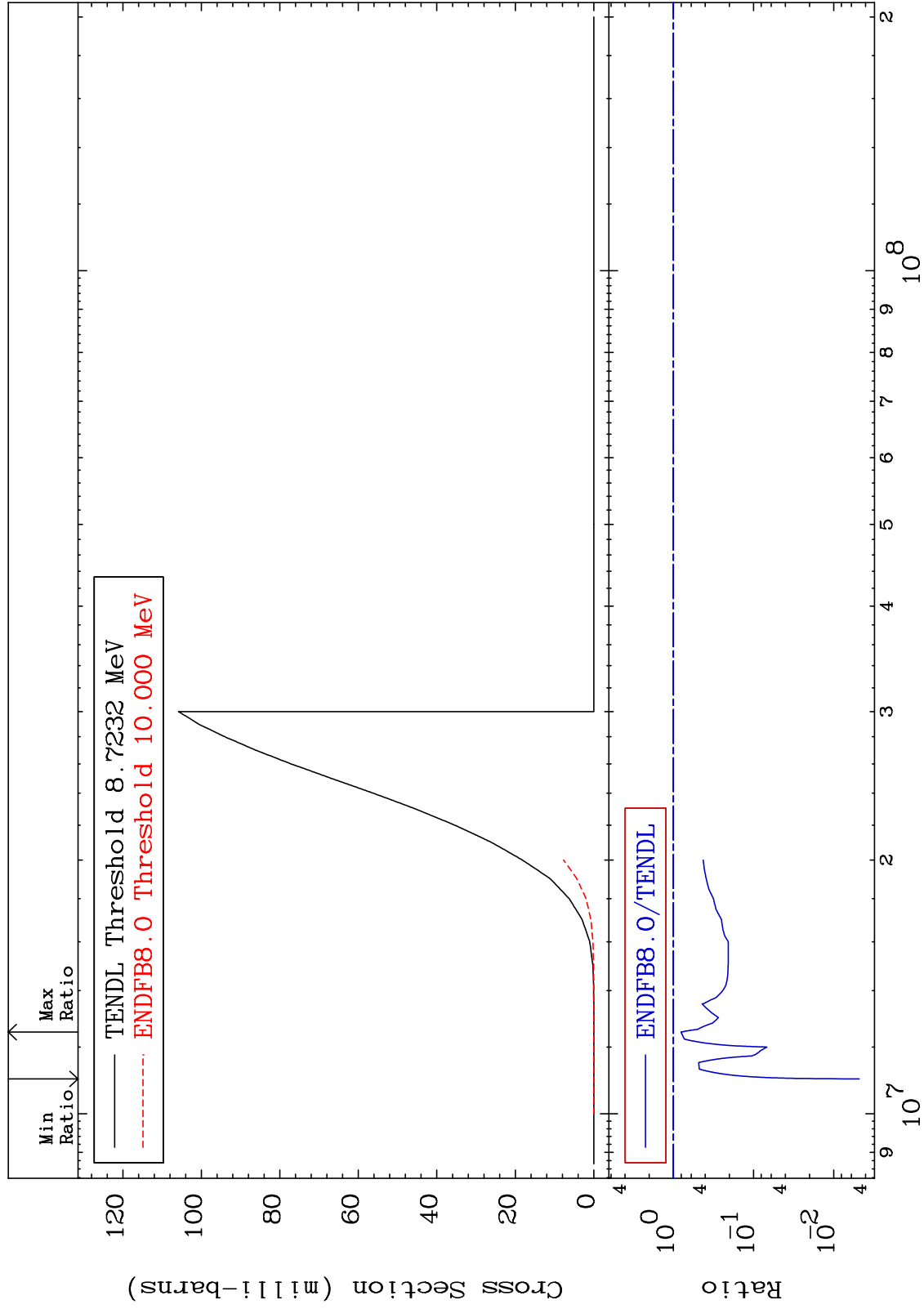
MAT 6249

(n,n') p

62-Sm-152

Cross Section

-99.52 To -19.84%



8

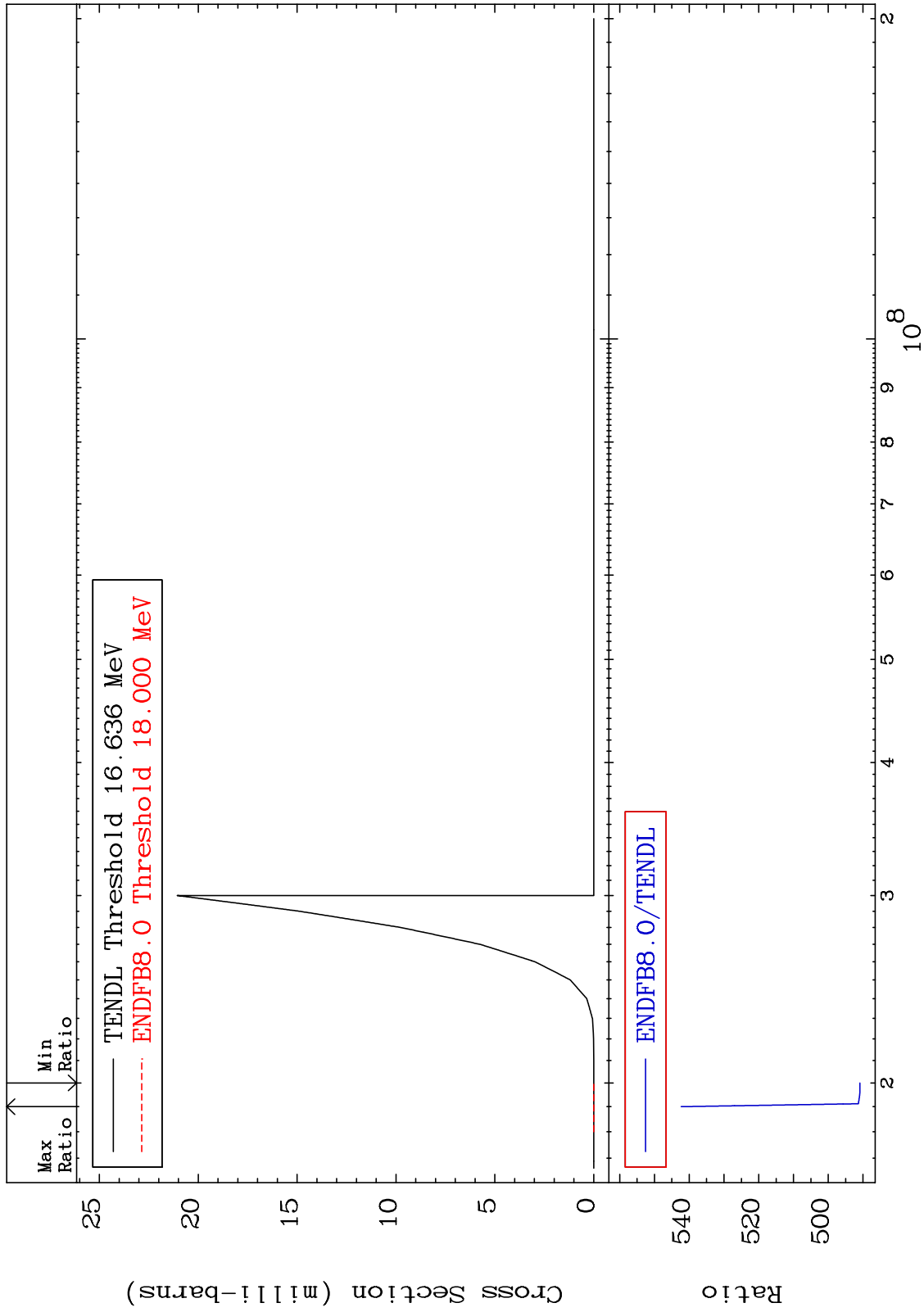
Incident Energy (eV)

62-Sm-152

MAT 6249

(n,2n) p  
Cross Section

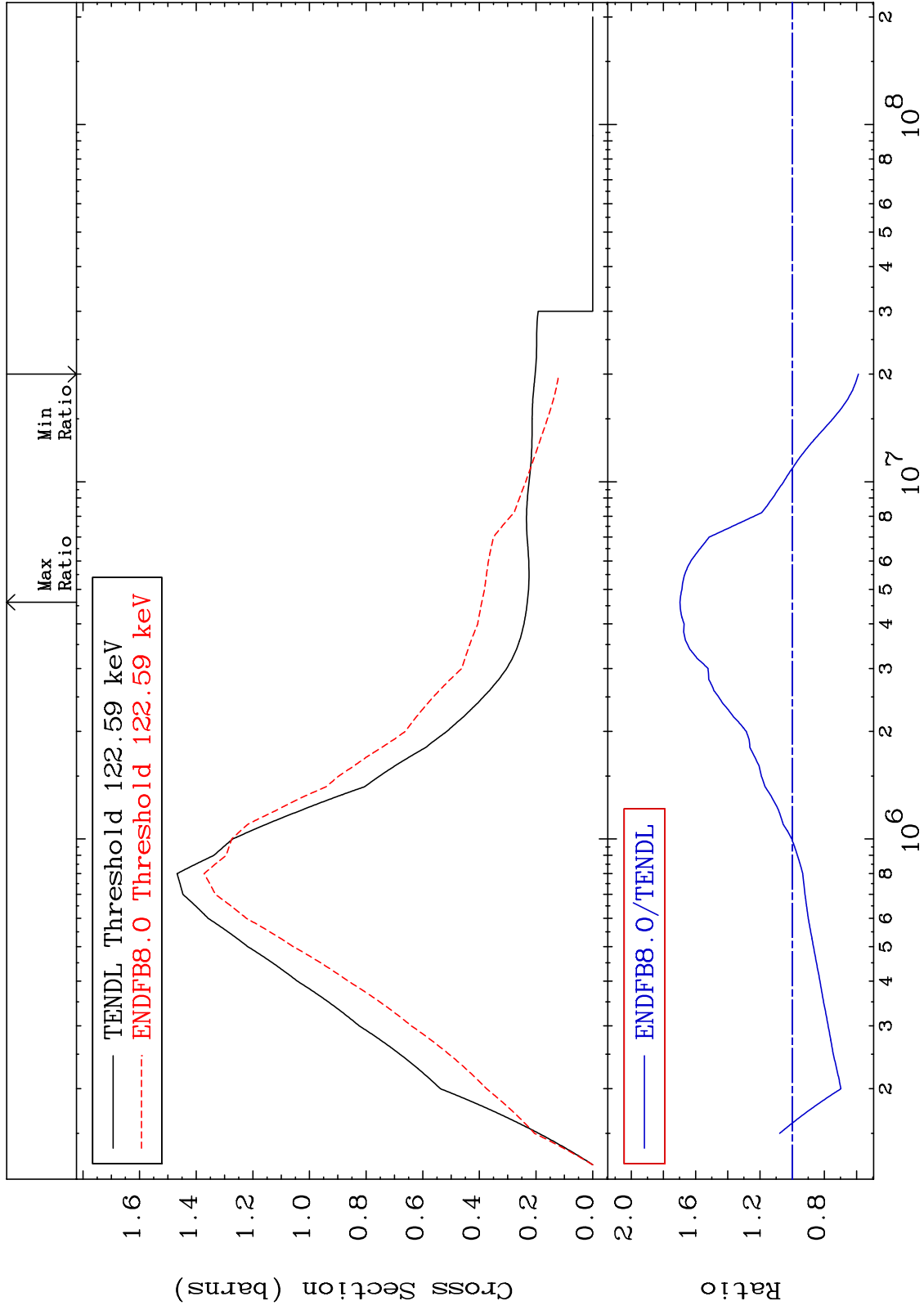
62-Sm-152  
-99.95 To -99.95%



MAT 6249

MT= 51 (n, n') Level  
Cross Section

62-Sm-152  
-41.15 To 69.70 %

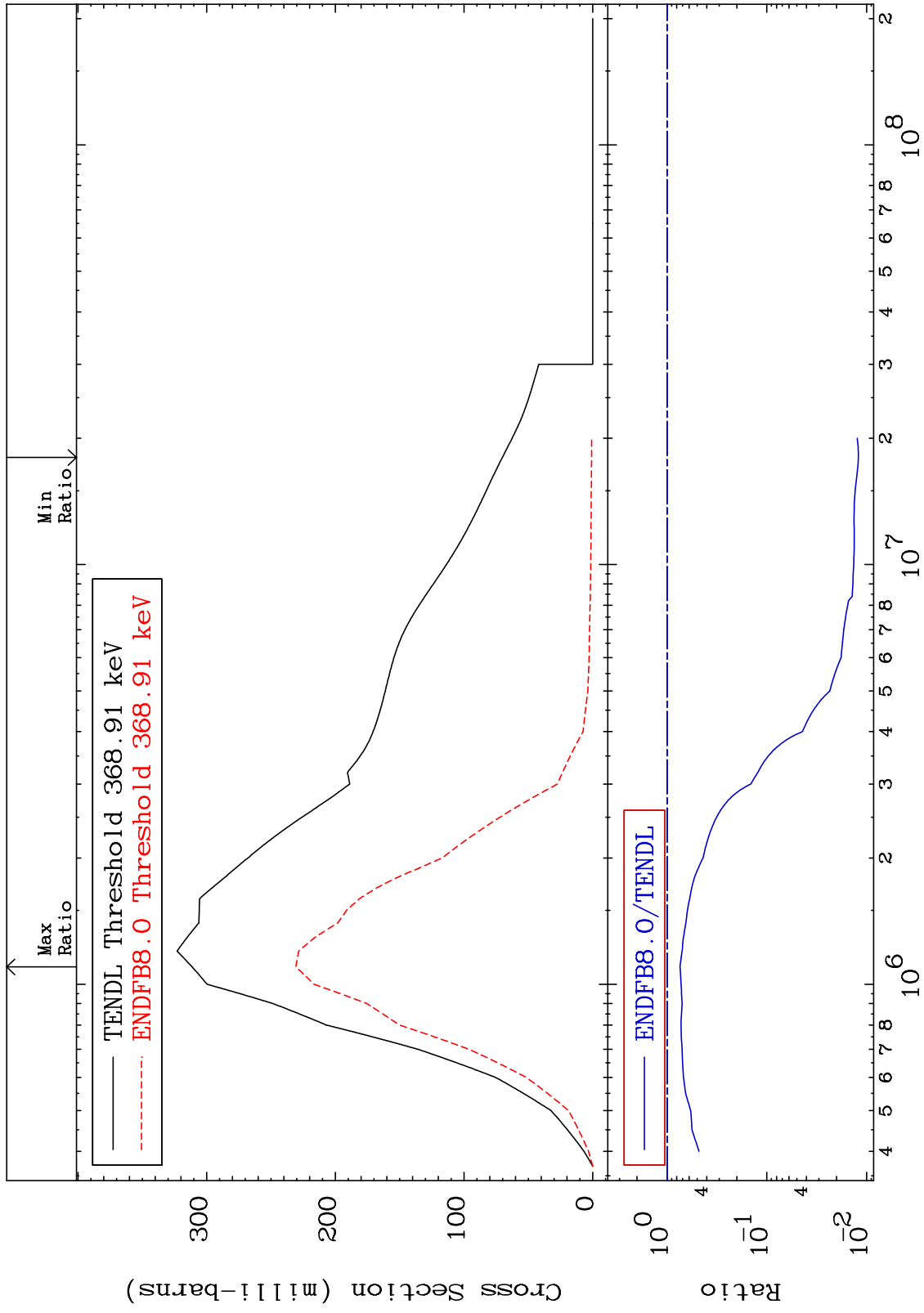


10

Incident Energy (eV)

62-Sm-152

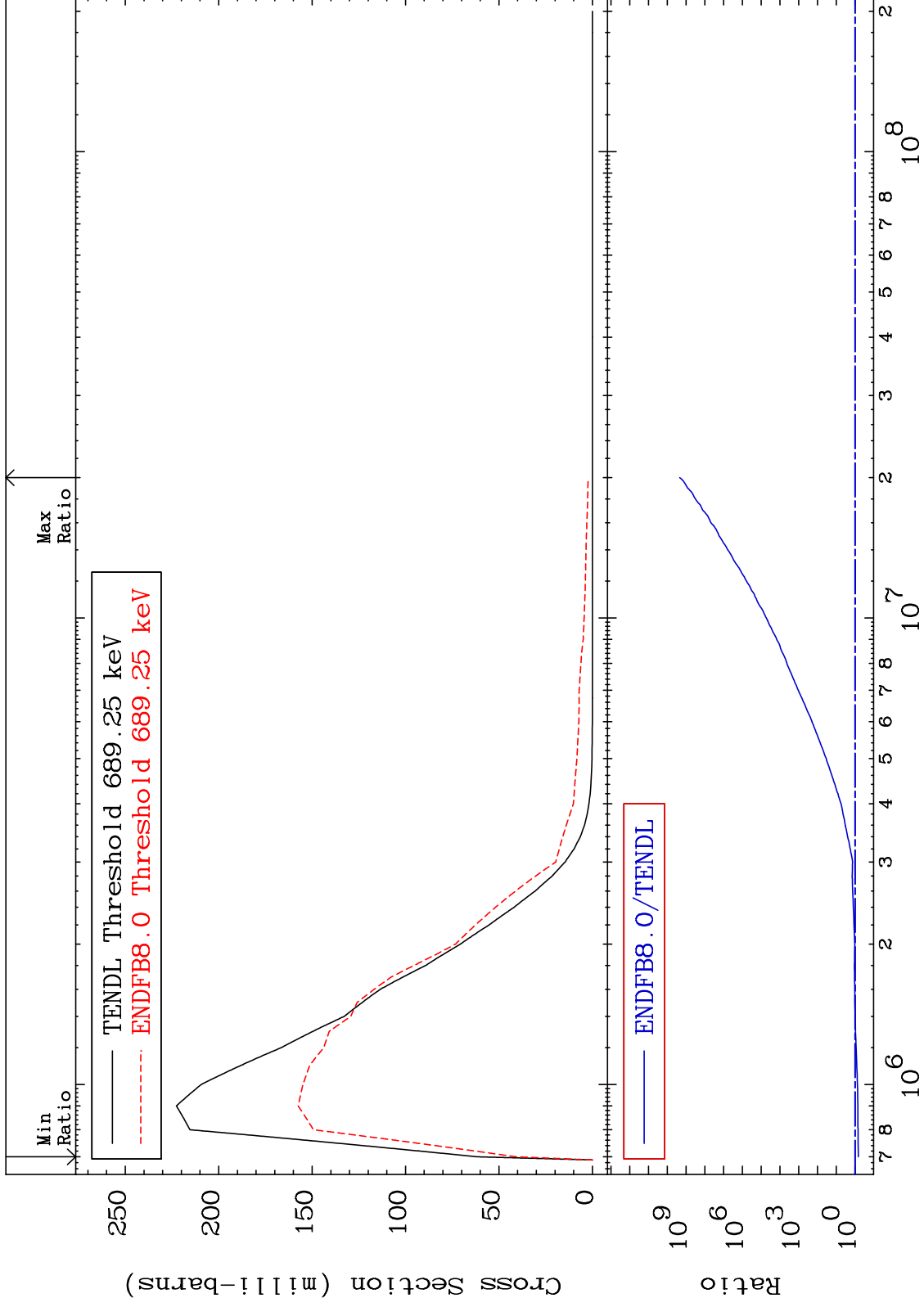
MAT 6249      MT= 52 (n,n') Level Cross Section      62-Sm-152  
 -98.79 To -25.87%



MAT 6249

MT= 53 (n,n') Level  
Cross Section

62-Sm-152  
-33.65 To 9999. %



12

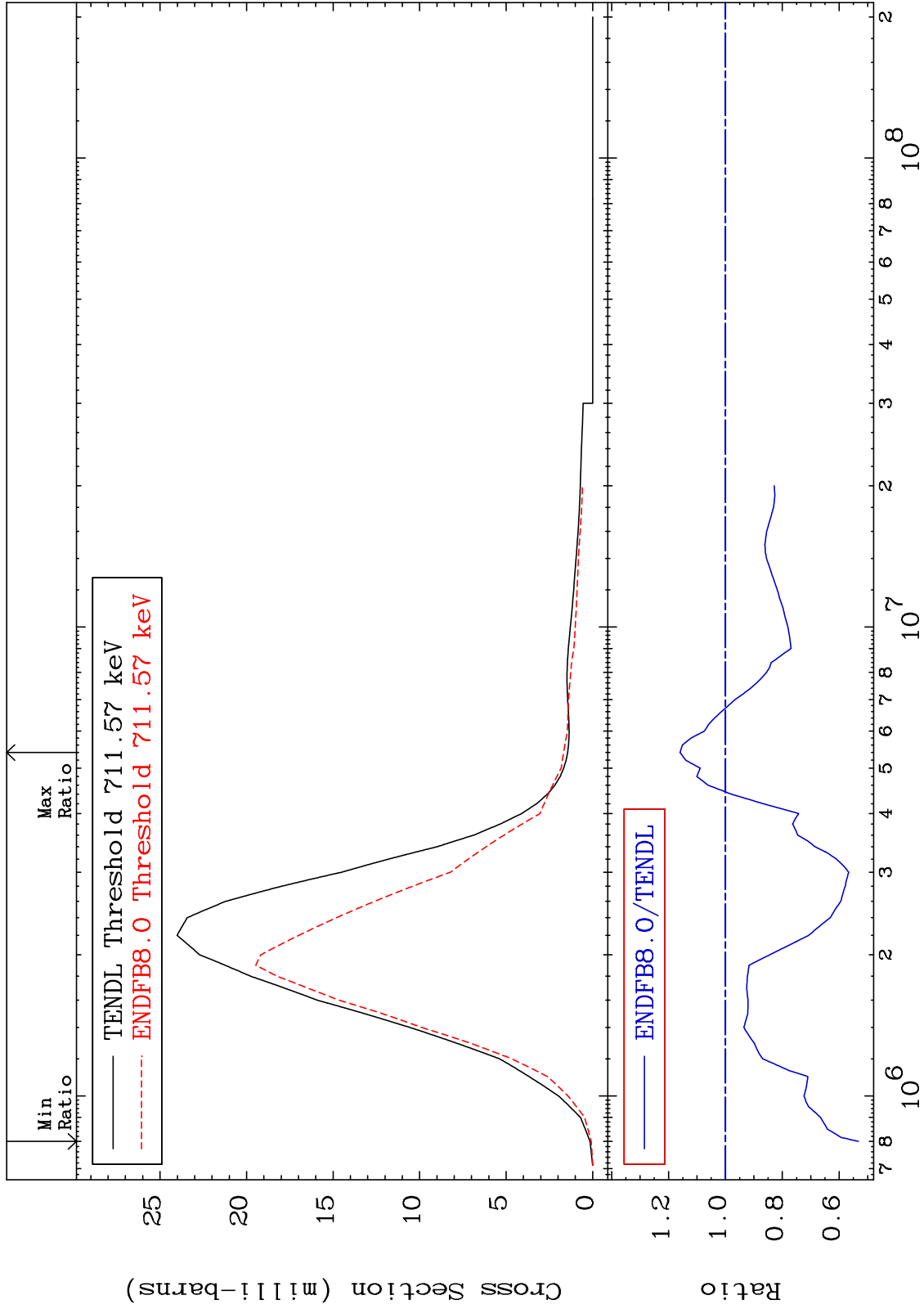
Incident Energy (eV)

62-Sm-152

MAT 6249

MT= 54 (n,n') Level  
Cross Section

62-Sm-152  
-46.75 To 15.96 %



13

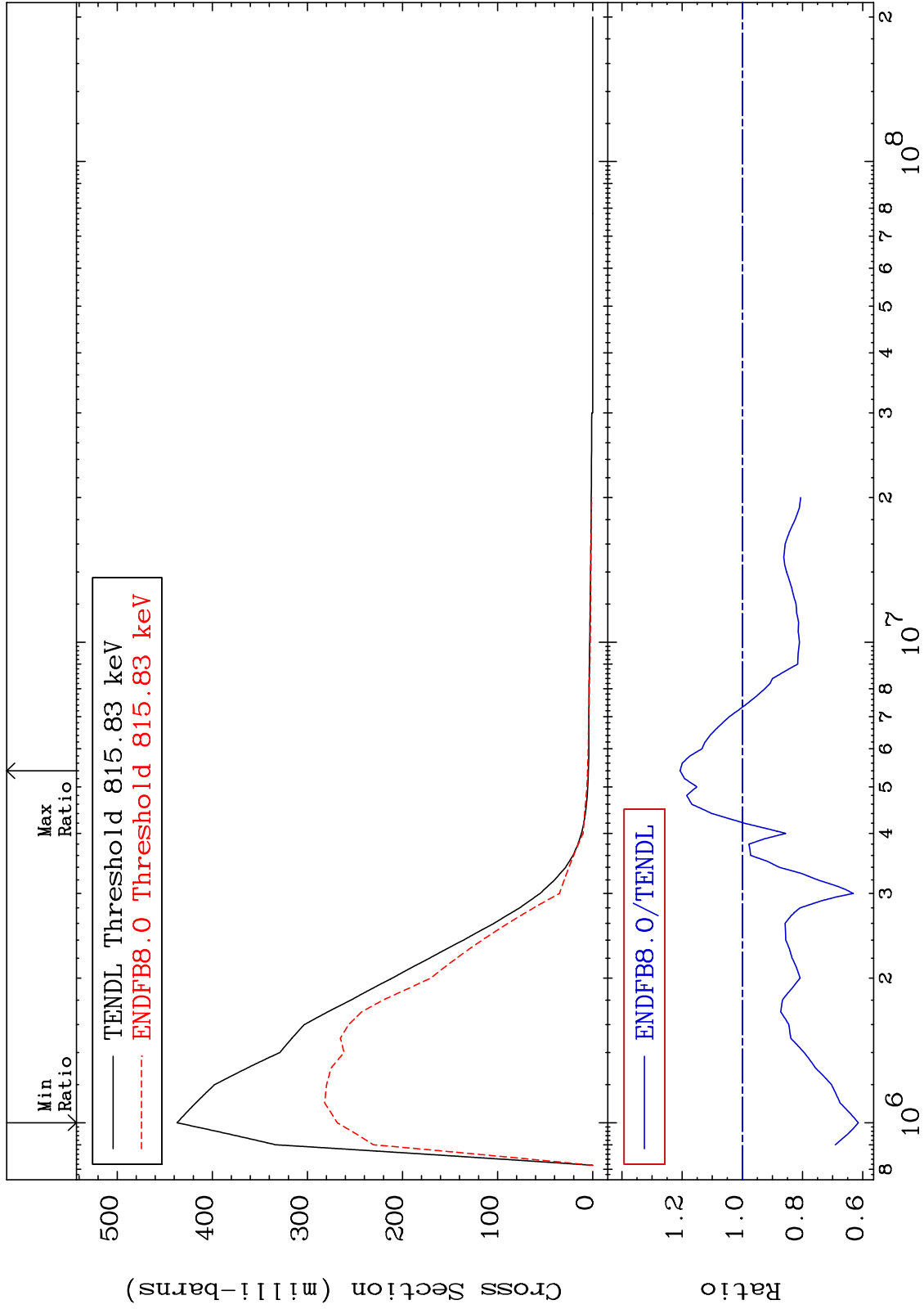
62-Sm-152

62-Sm-152

MAT 6249

MT= 55 (n,n') Level  
Cross Section

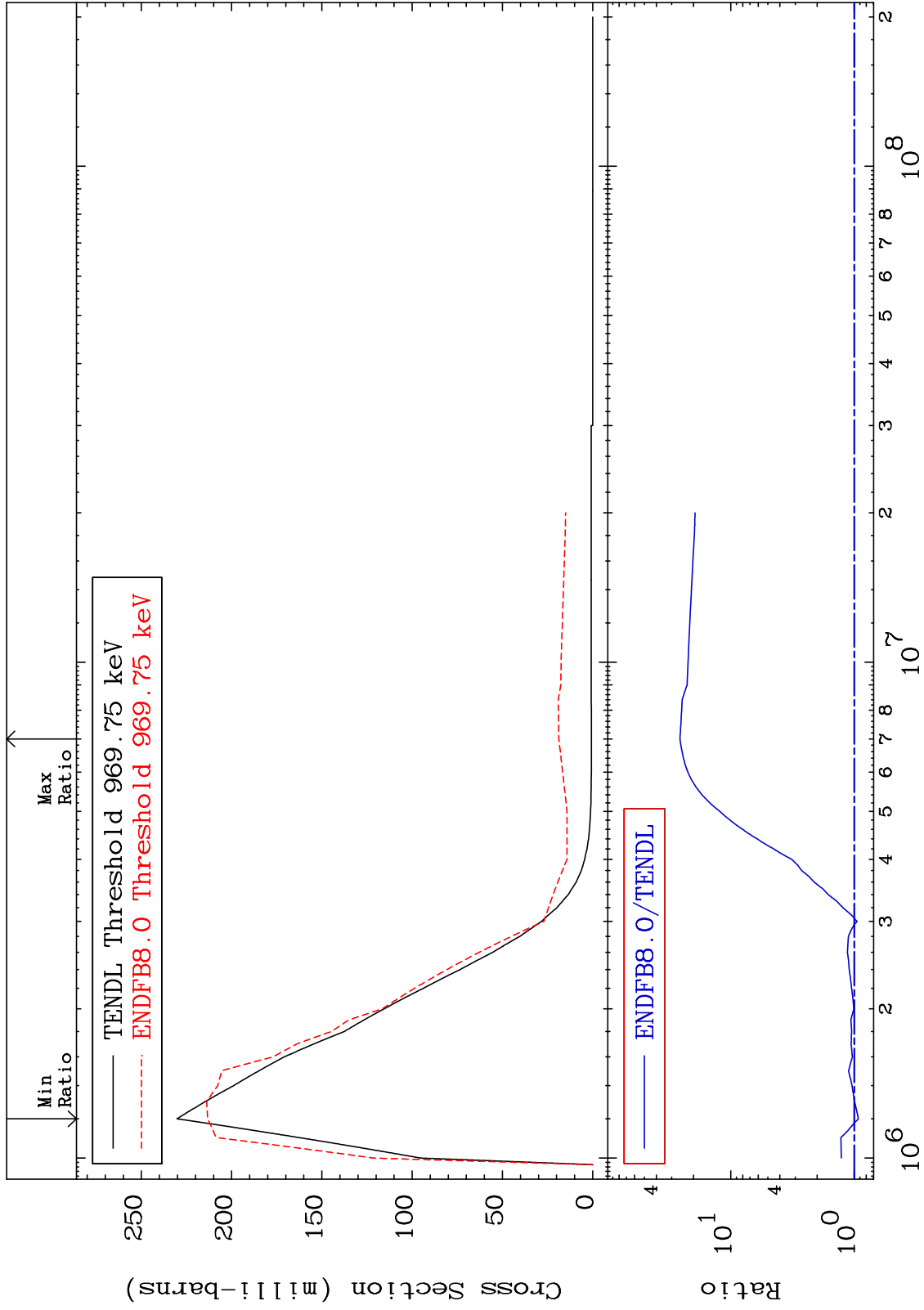
62-Sm-152  
-38.55 To 20.68 %



MAT 6249

MT= 56 (n,n') Level  
Cross Section

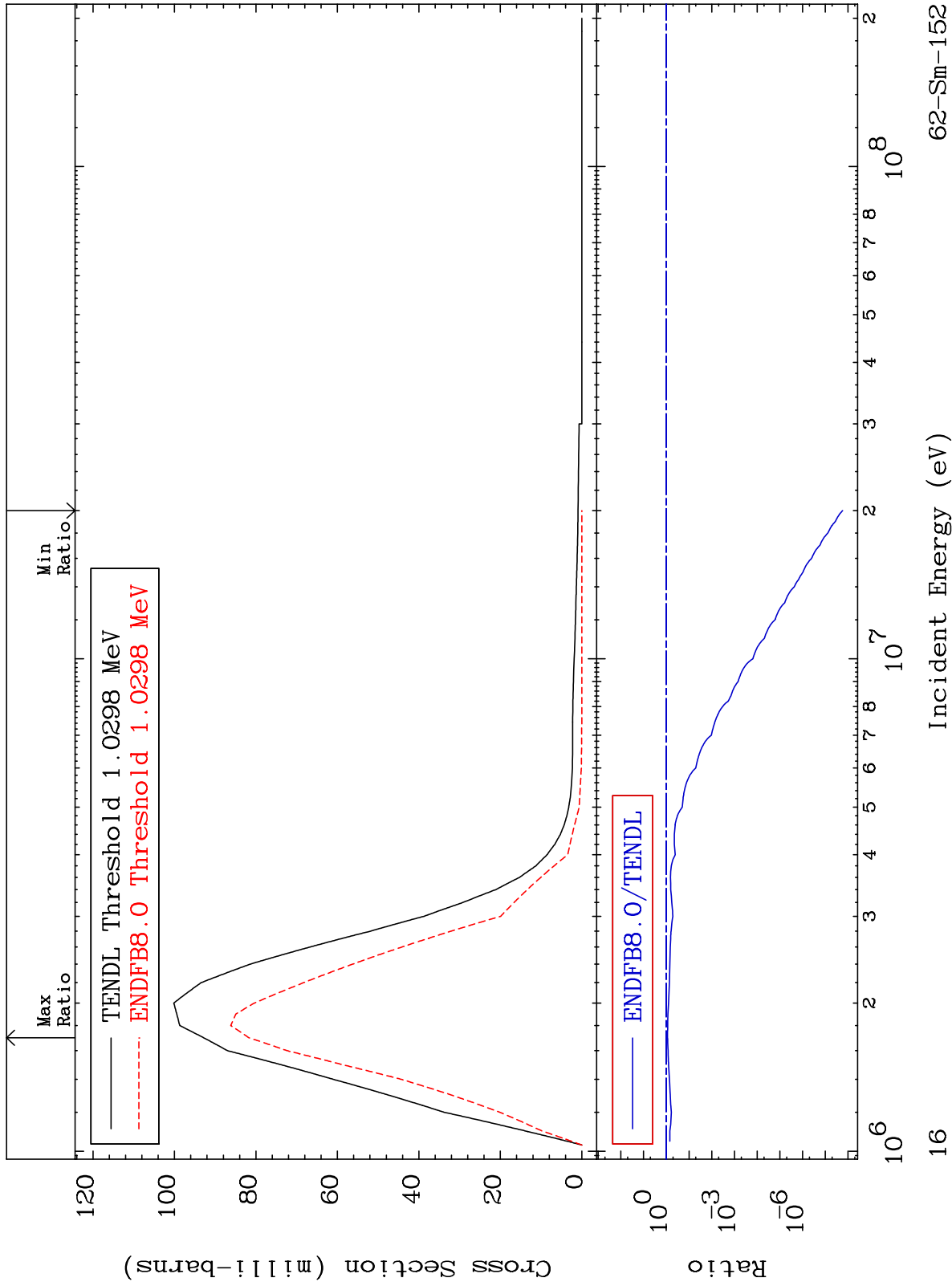
62-Sm-152  
-7.368 To 2473. %



Incident Energy (eV) 62-Sm-152



MAT 6249      MT= 57 (n, n') Level  
Cross Section      62-Sm-152  
-100.0 To -11.98%



62-Sm-152

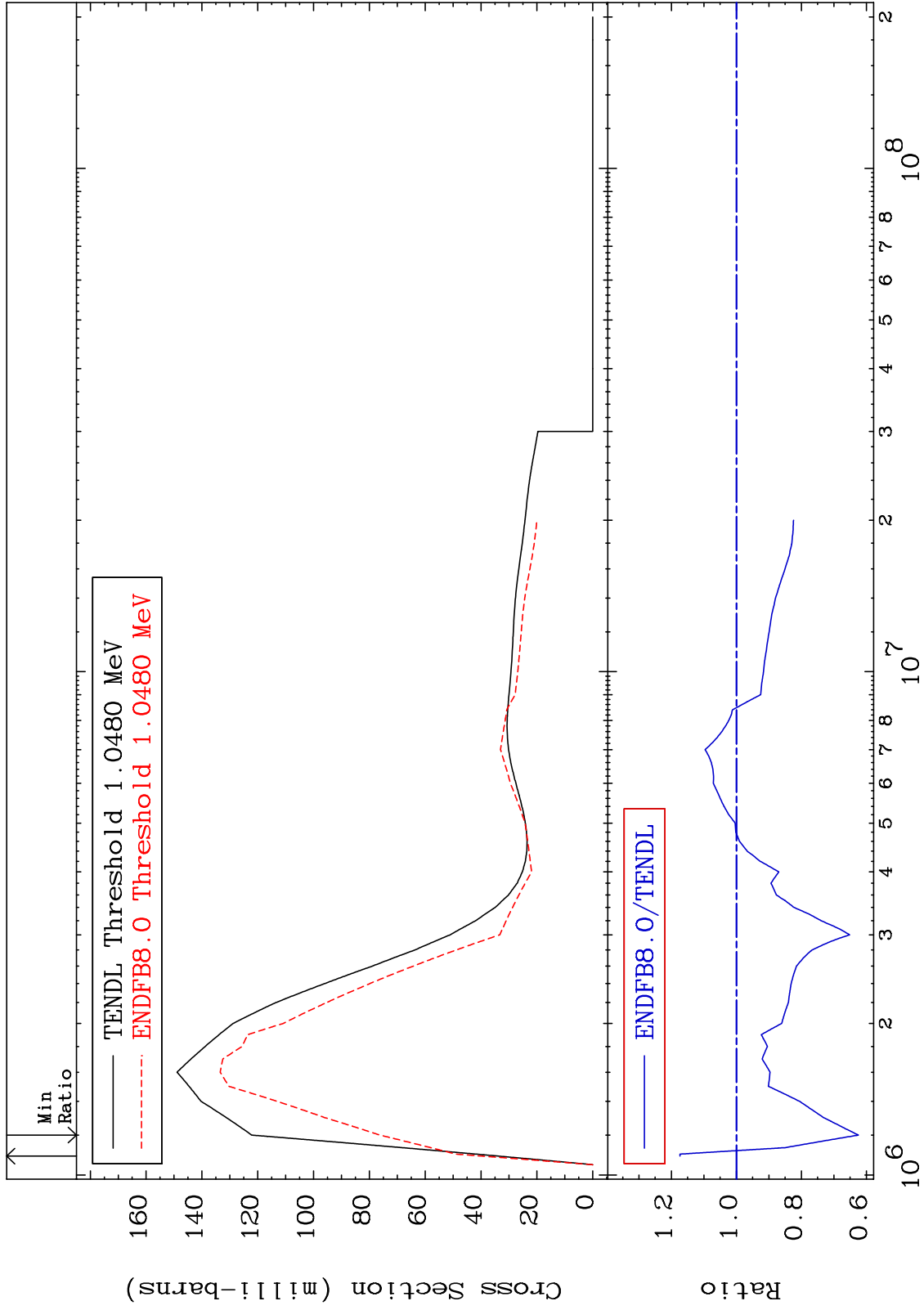
Incident Energy (eV)

16

MAT 6249

MT= 58 (n,n') Level  
Cross Section

62-Sm-152  
-37.56 To 17.35 %



17

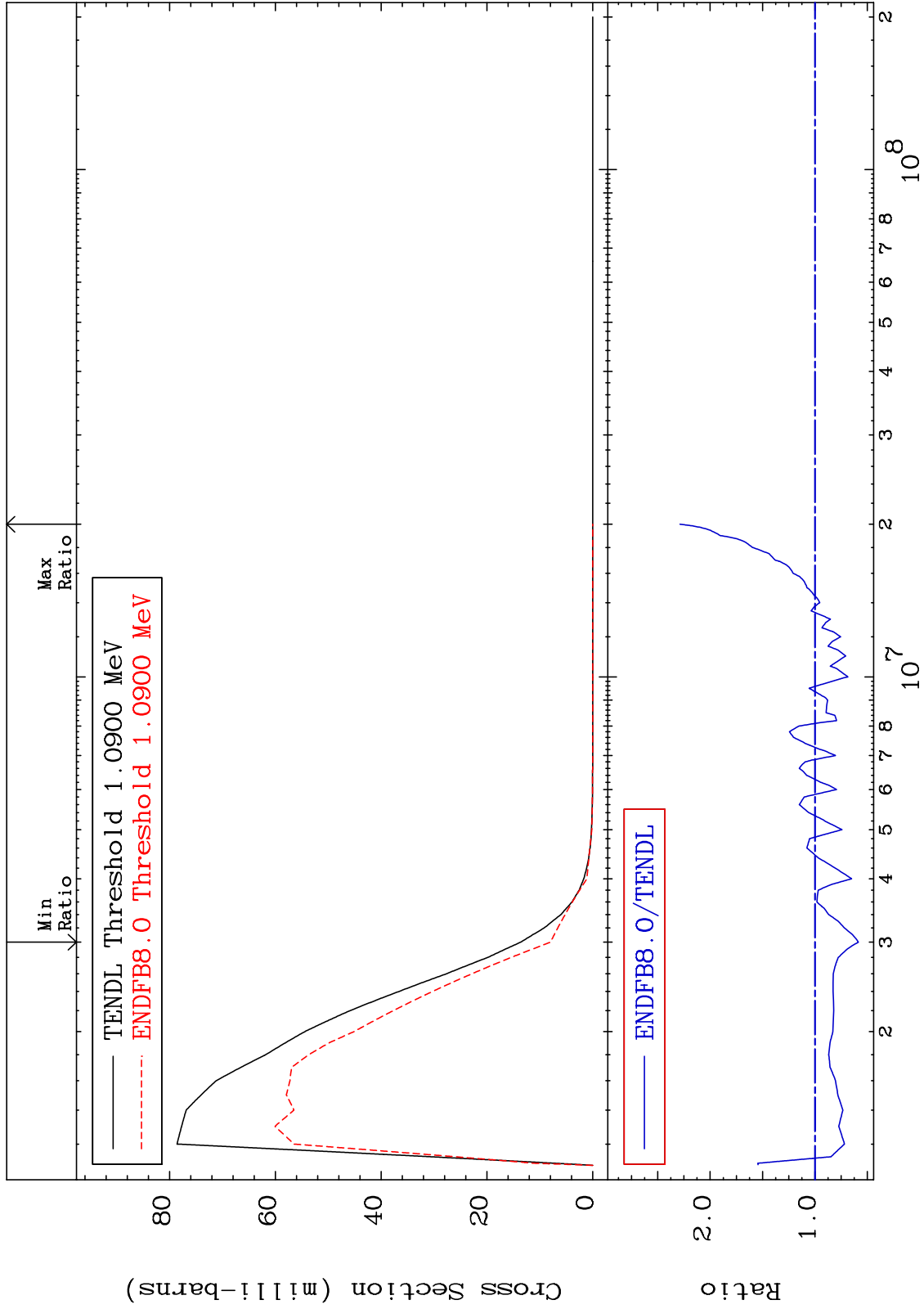
Incident Energy (eV)

62-Sm-152

MAT 6249

MT= 59 (n,n') Level  
Cross Section

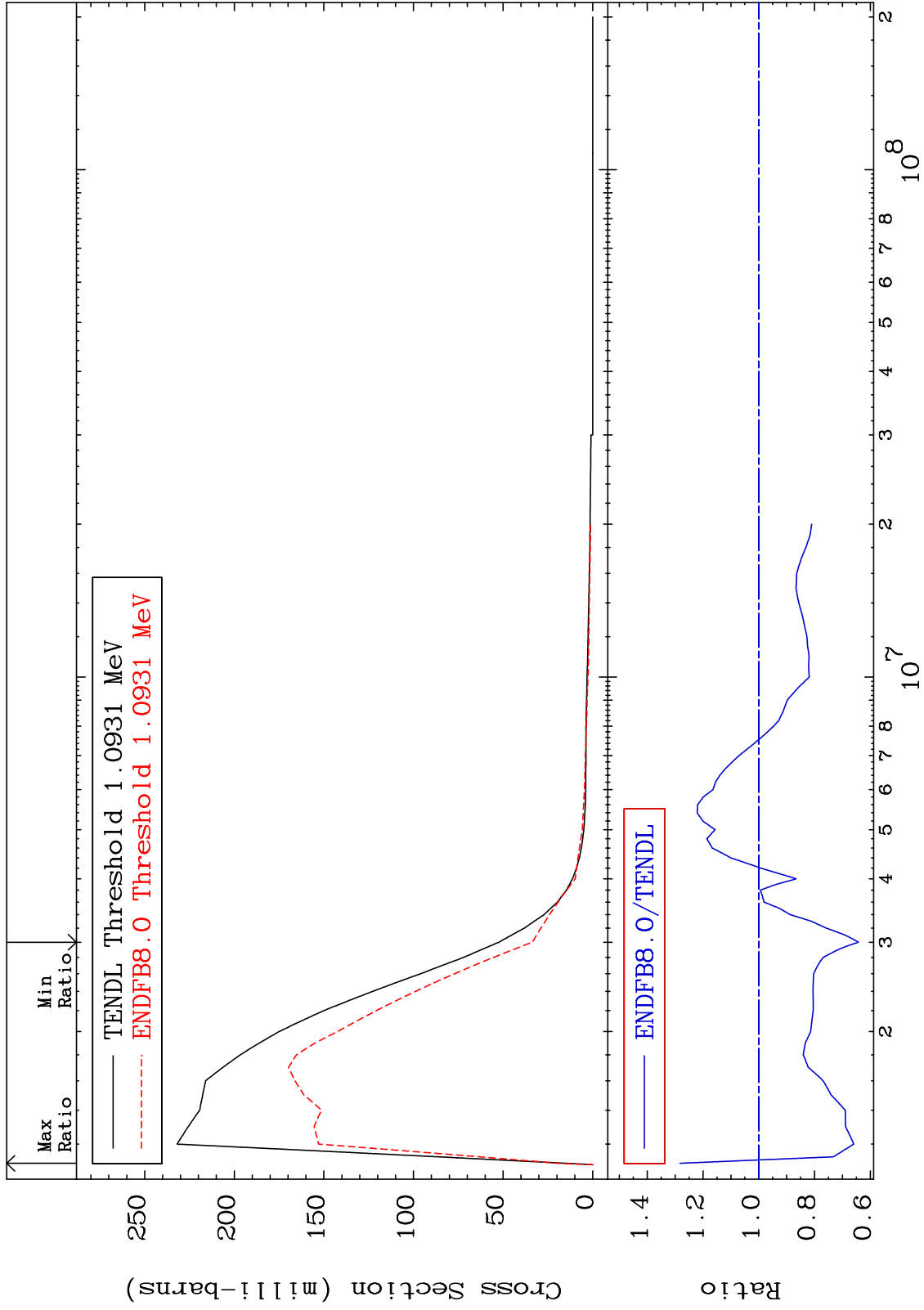
62-Sm-152  
-41.42 To 128.7 %



MAT 6249

MT= 60 (n,n') Level  
Cross Section

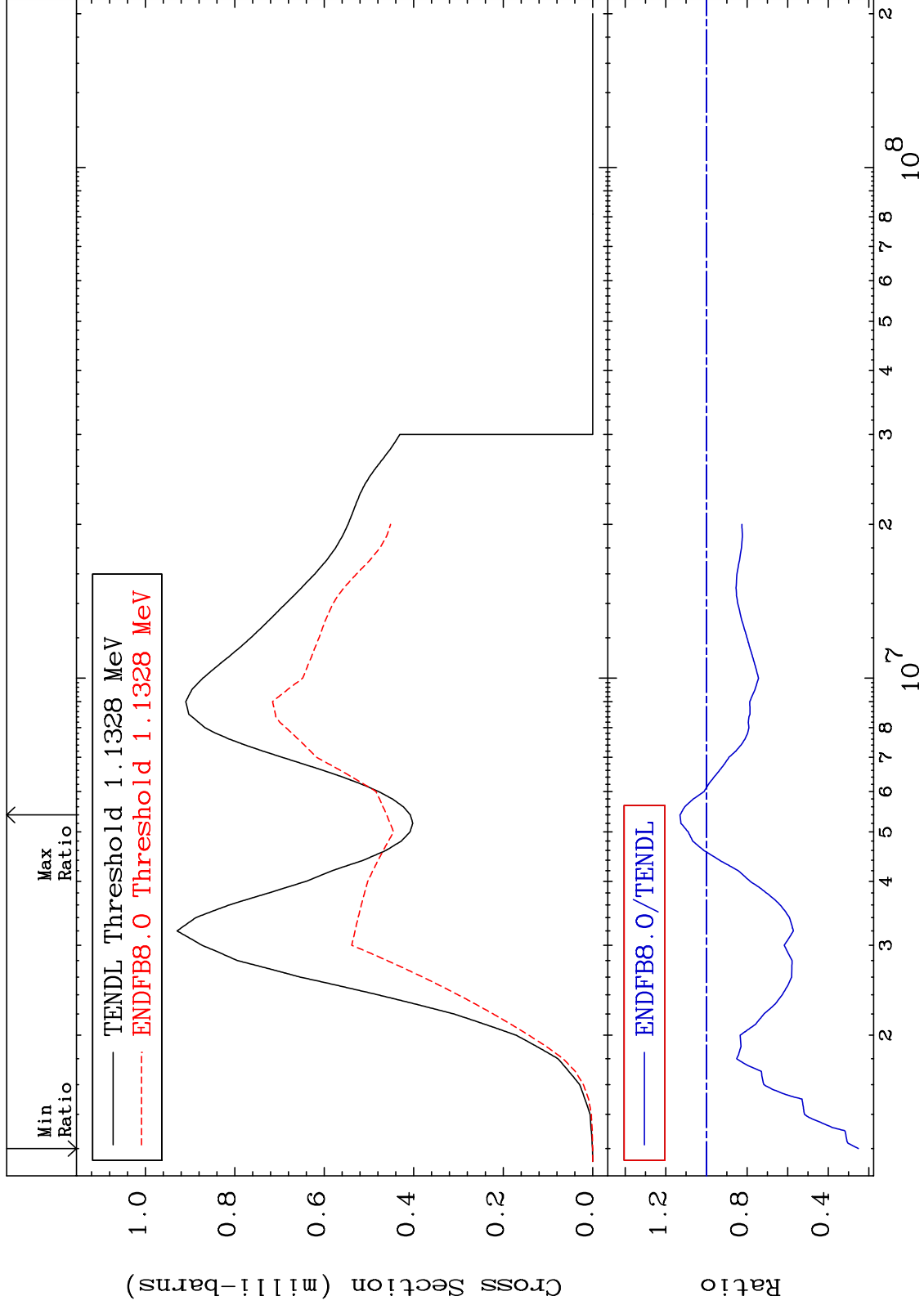
62-Sm-152  
-35.73 To 28.25 %



MAT 6249

MT= 61 (n,n') Level  
Cross Section

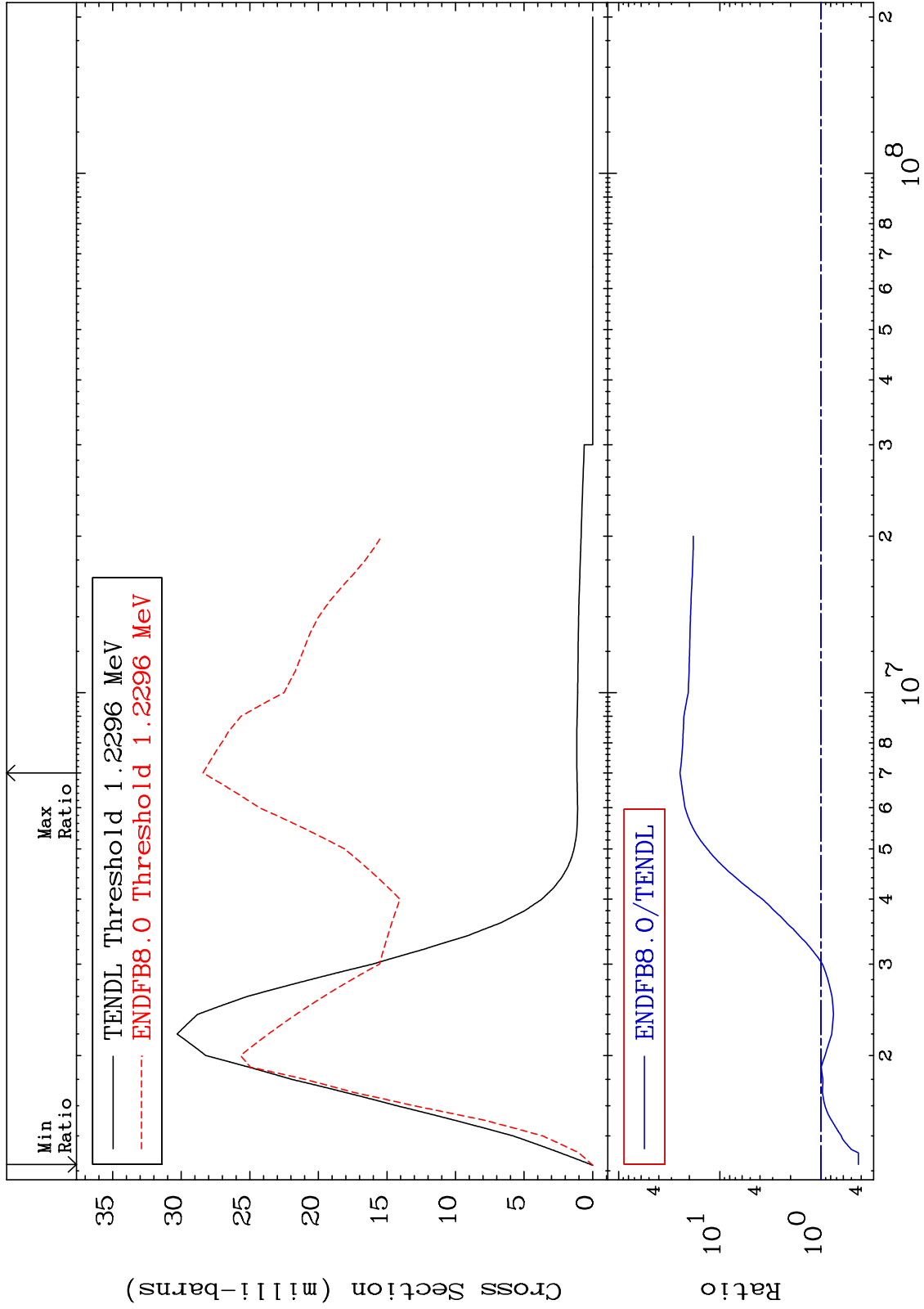
62-Sm-152  
-74.82 To 13.02 %



MAT 6249

MT= 62 (n,n') Level  
Cross Section

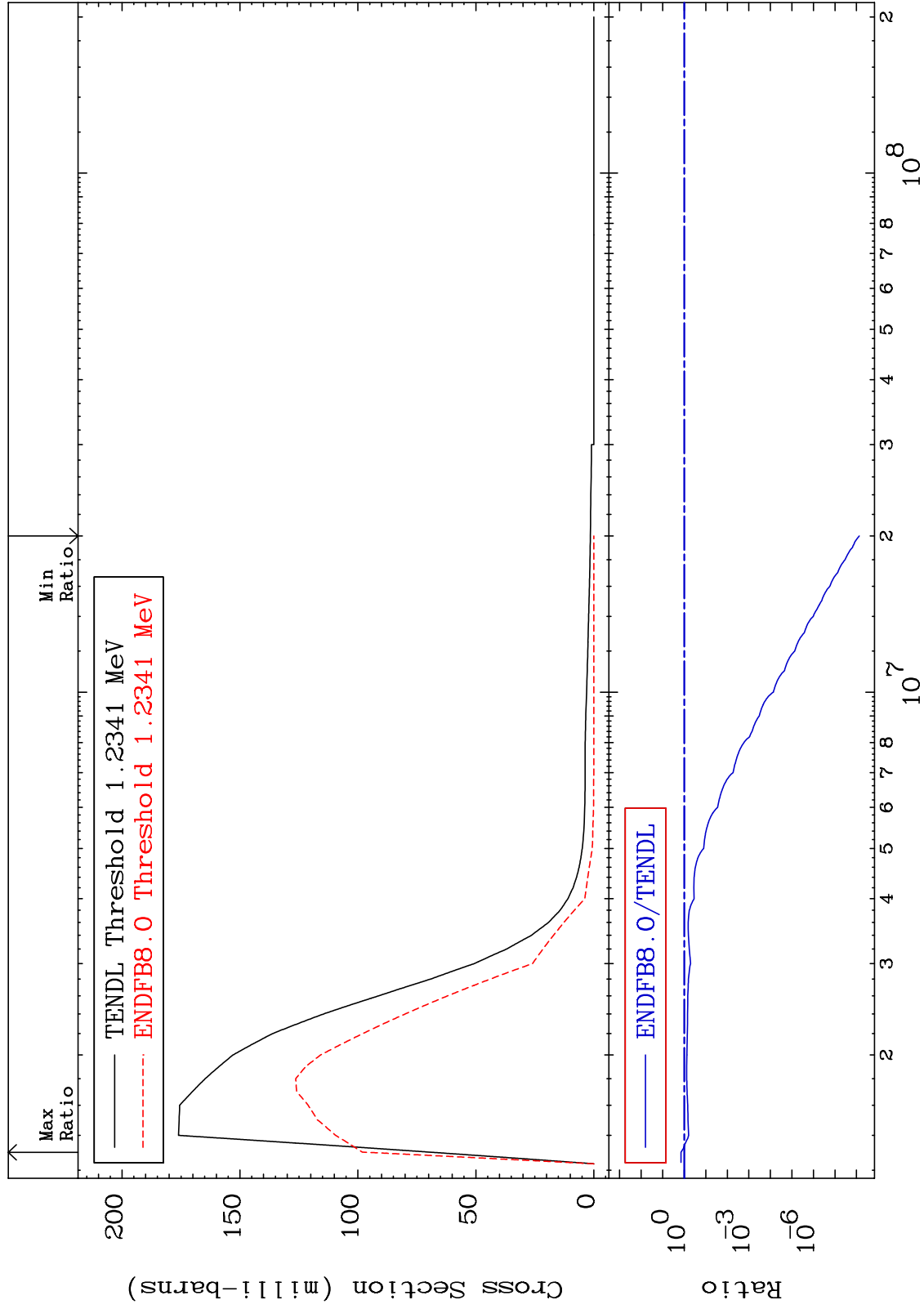
62-Sm-152  
-57.40 To 2372. %



MAT 6249

MT= 63 (n,n') Level  
Cross Section

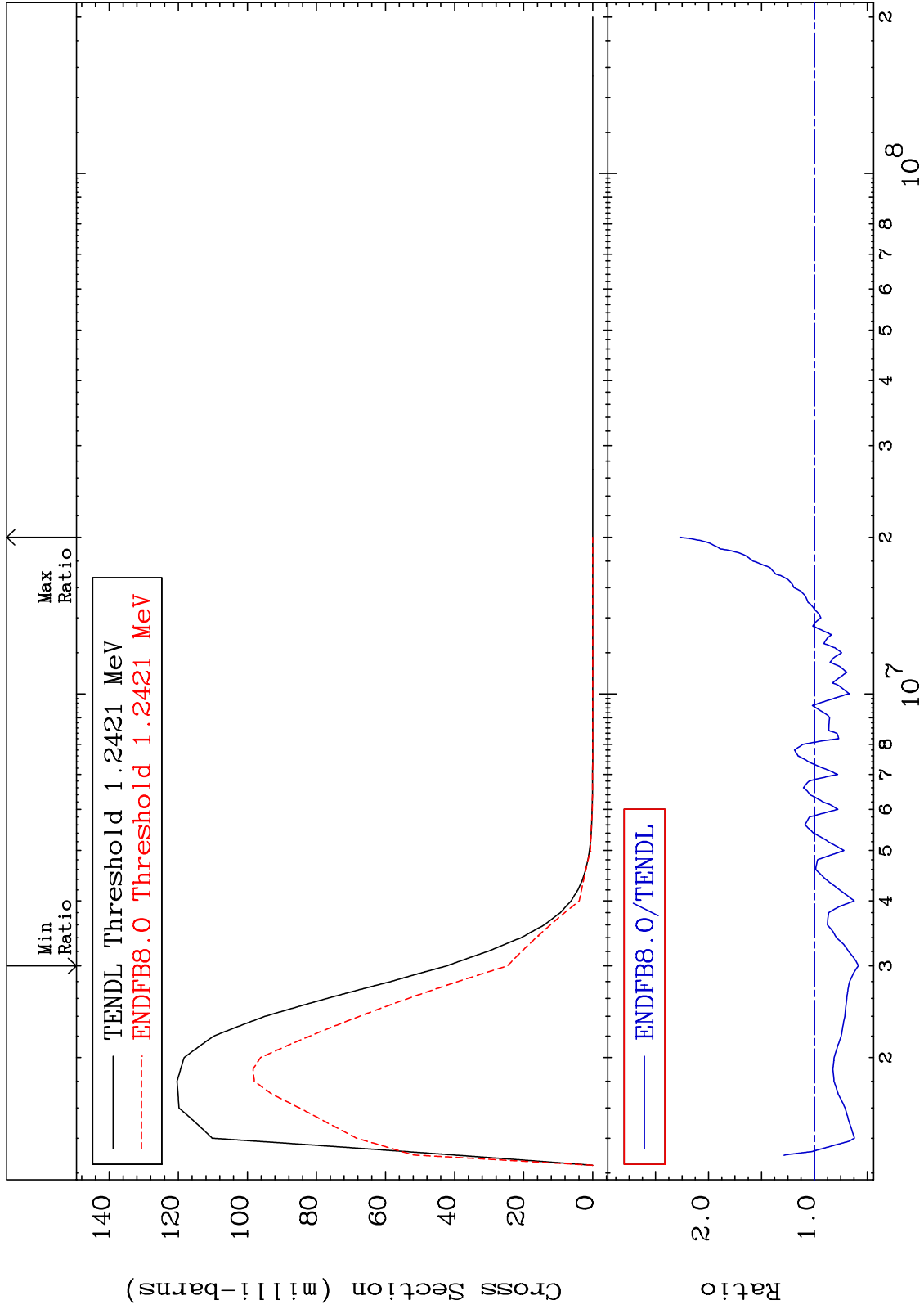
62-Sm-152  
-100.0 To 40.42 %



MAT 6249

MT= 64 (n,n') Level  
Cross Section

62-Sm-152  
-41.65 To 126.9 %

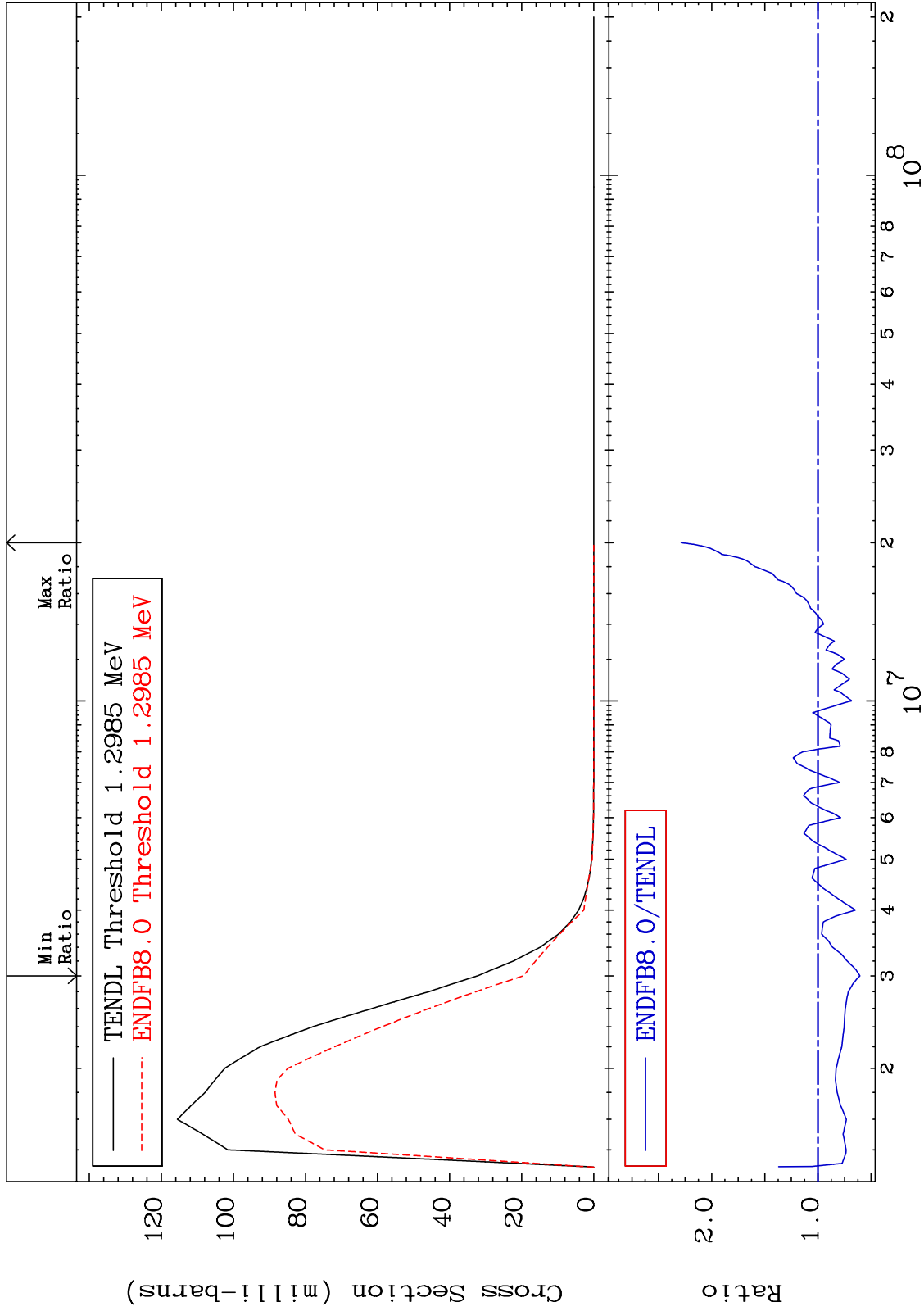




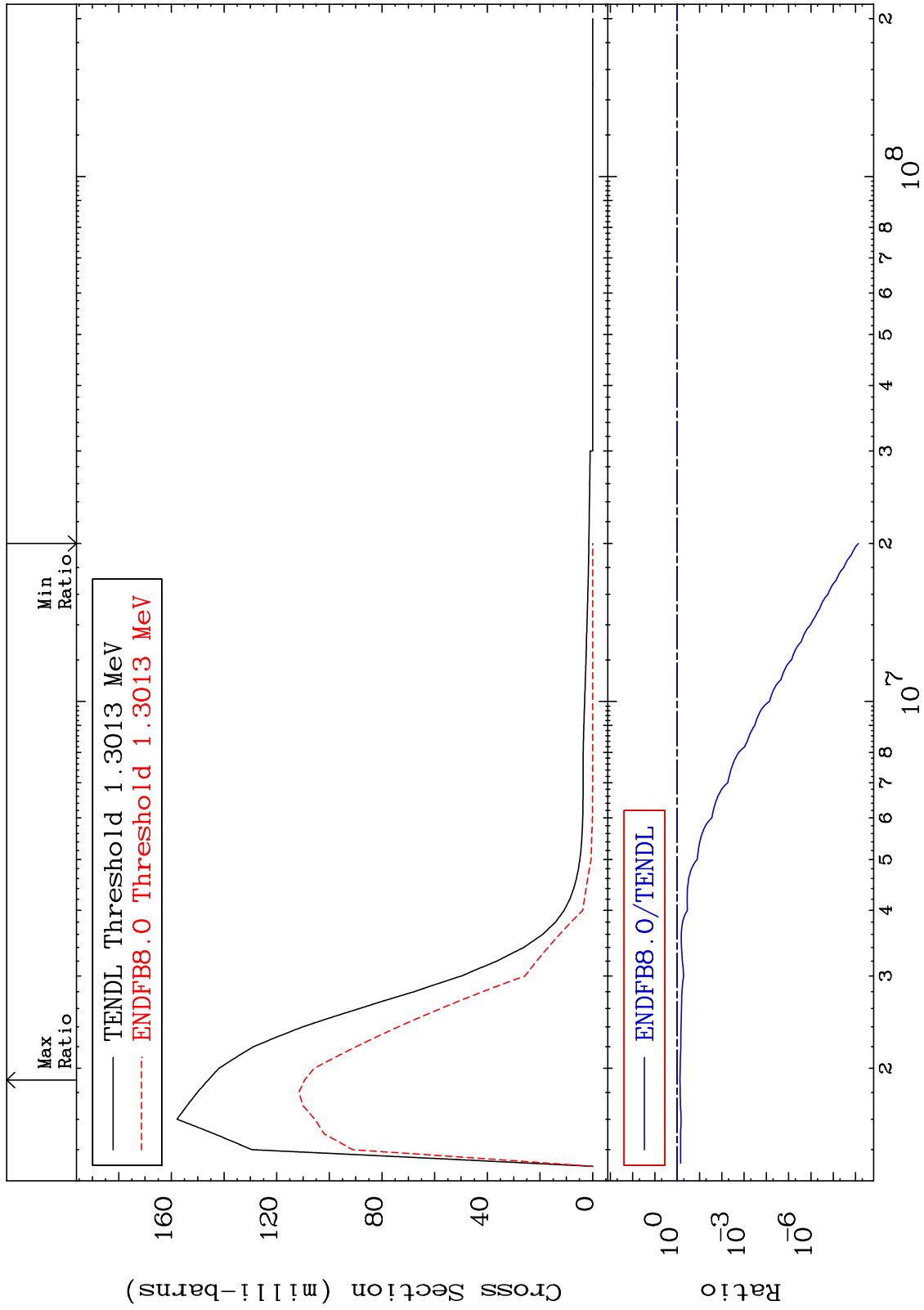
MAT 6249

MT= 65 (n,n') Level  
Cross Section

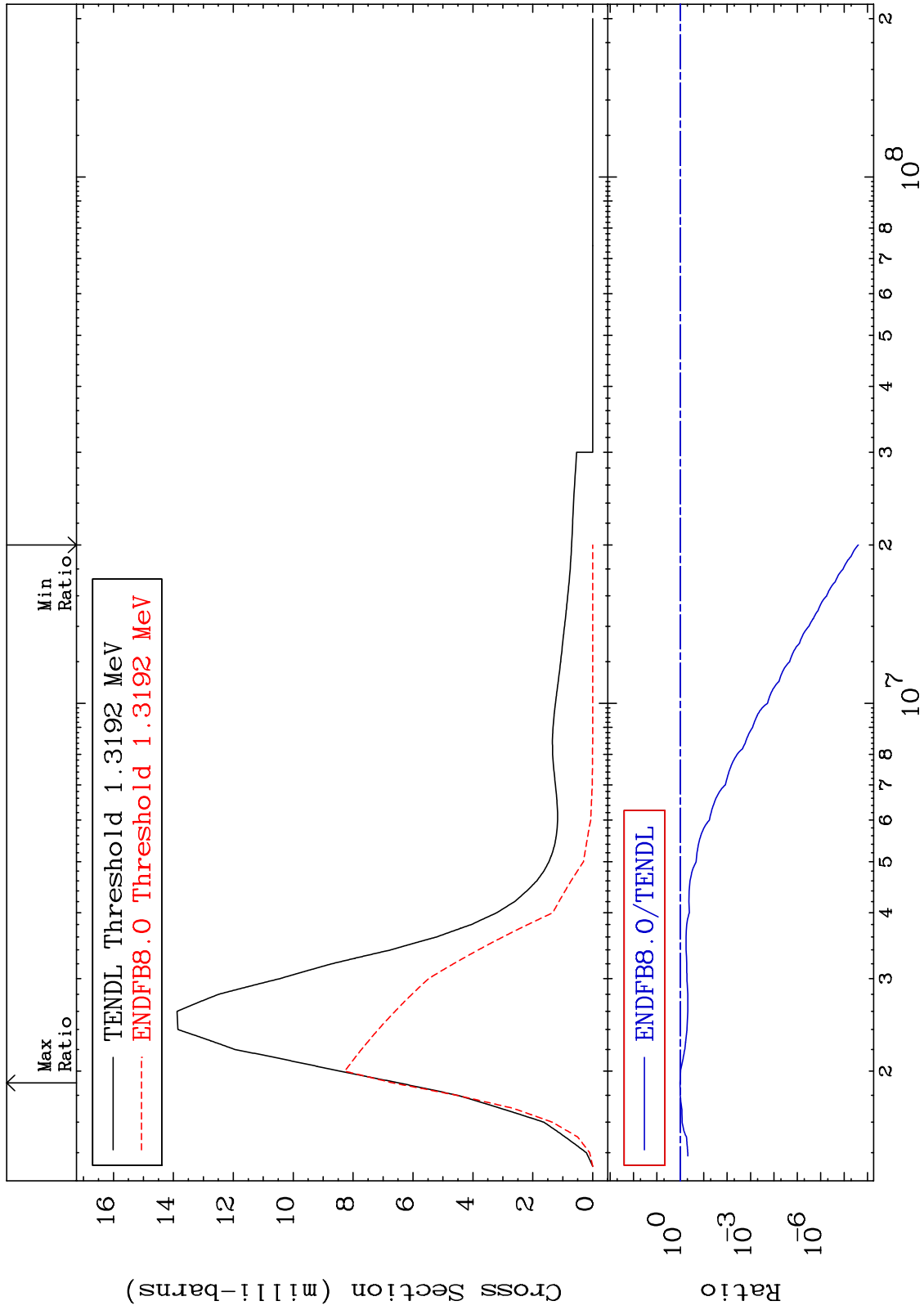
62-Sm-152  
-39.47 To 128.6 %



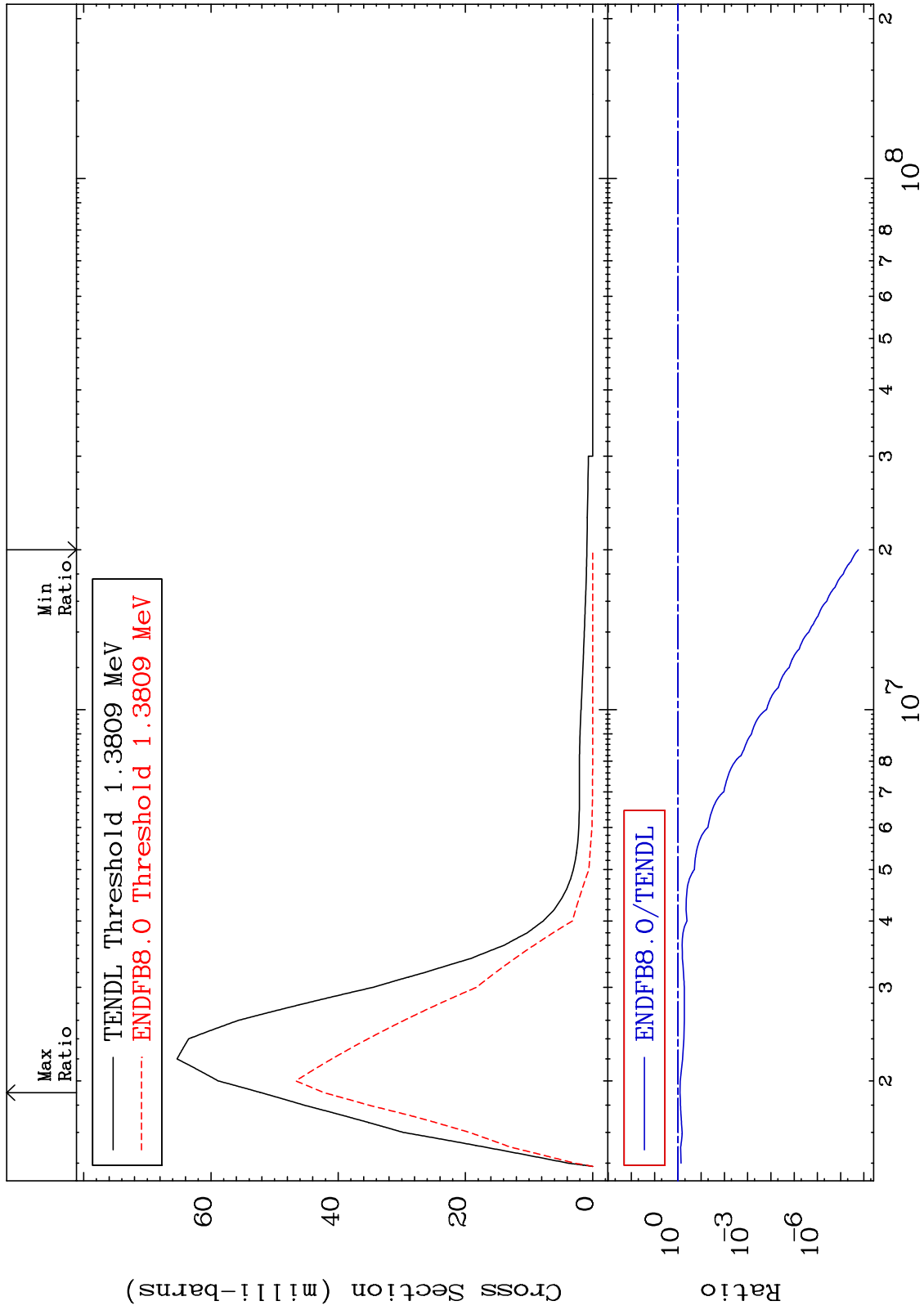
MAT 6249 MT= 66 (n,n') Level  
 Cross Section 62-Sm-152  
 -100.0 To -25.08%



MAT 6249      MT= 67 (n, n') Level Cross Section      62-Sm-152  
 -100.0 To 3.050 %



MAT 6249 MT= 68 (n,n') Level Cross Section 62-Sm-152  
 -100.0 To -18.97%



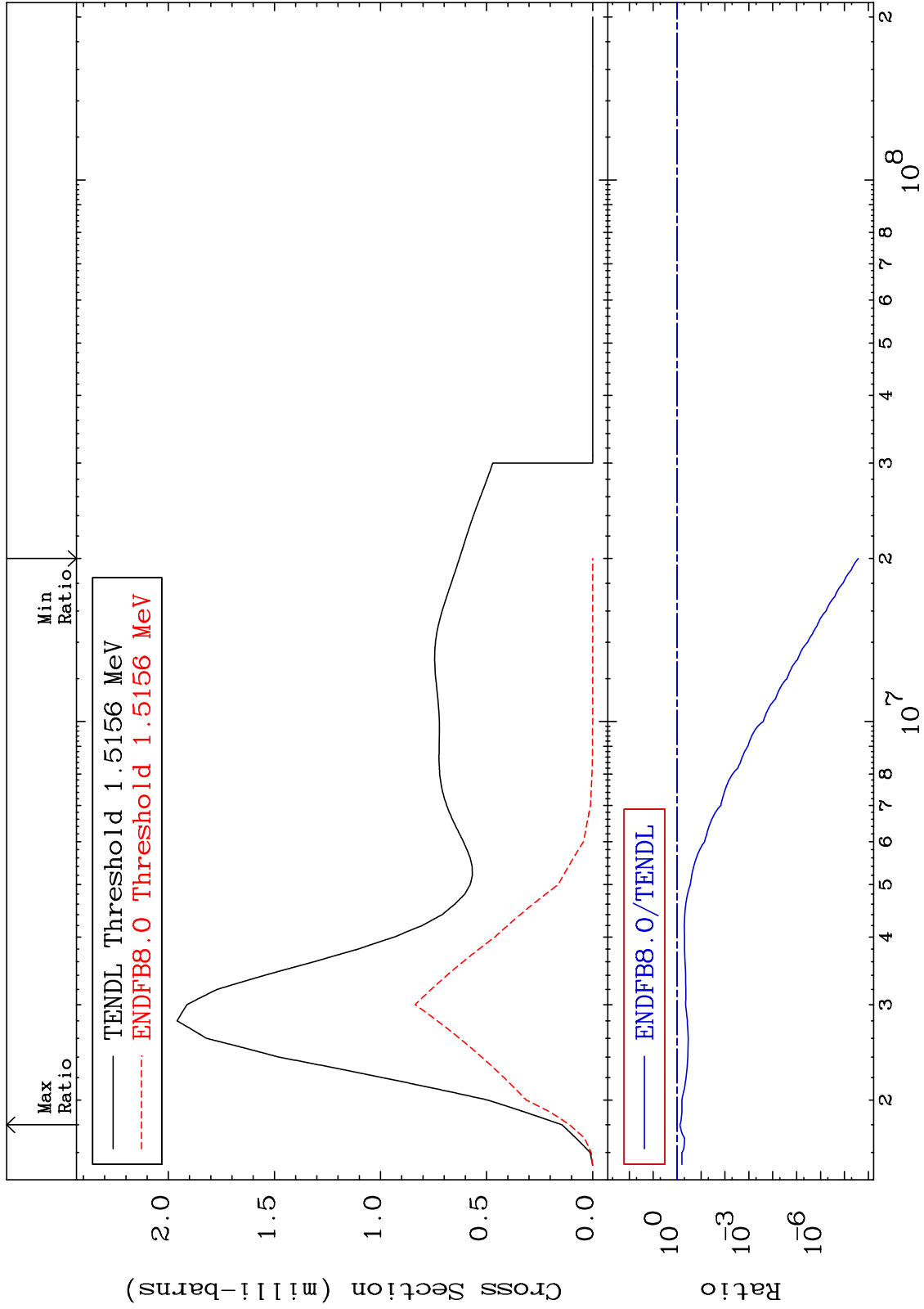
62-Sm-152

Incident Energy (eV)

MAT 6249

MT= 69 (n,n') Level  
Cross Section

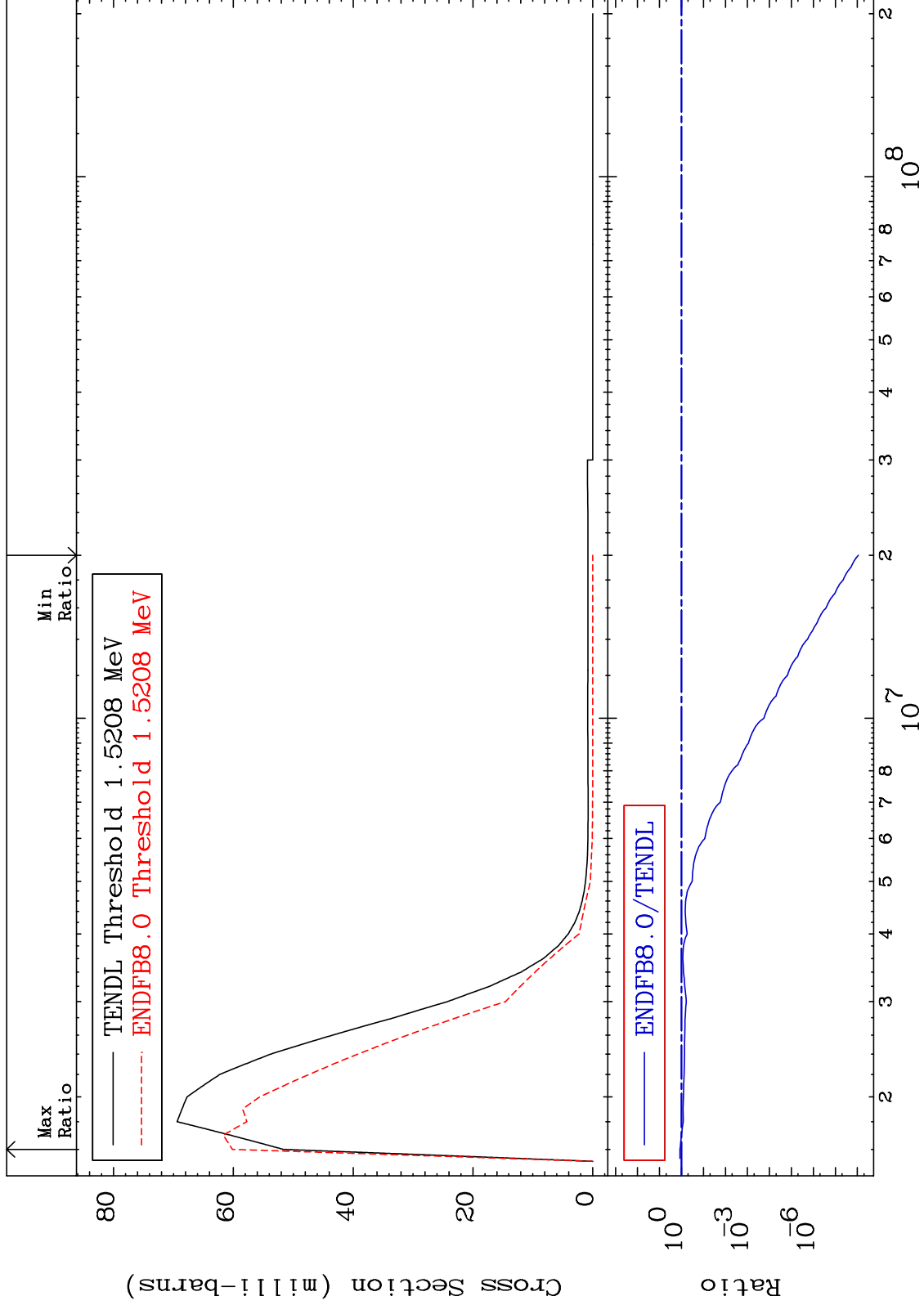
62-Sm-152  
-100.0 To -24.54%



MAT 6249

MT= 70 (n,n') Level  
Cross Section

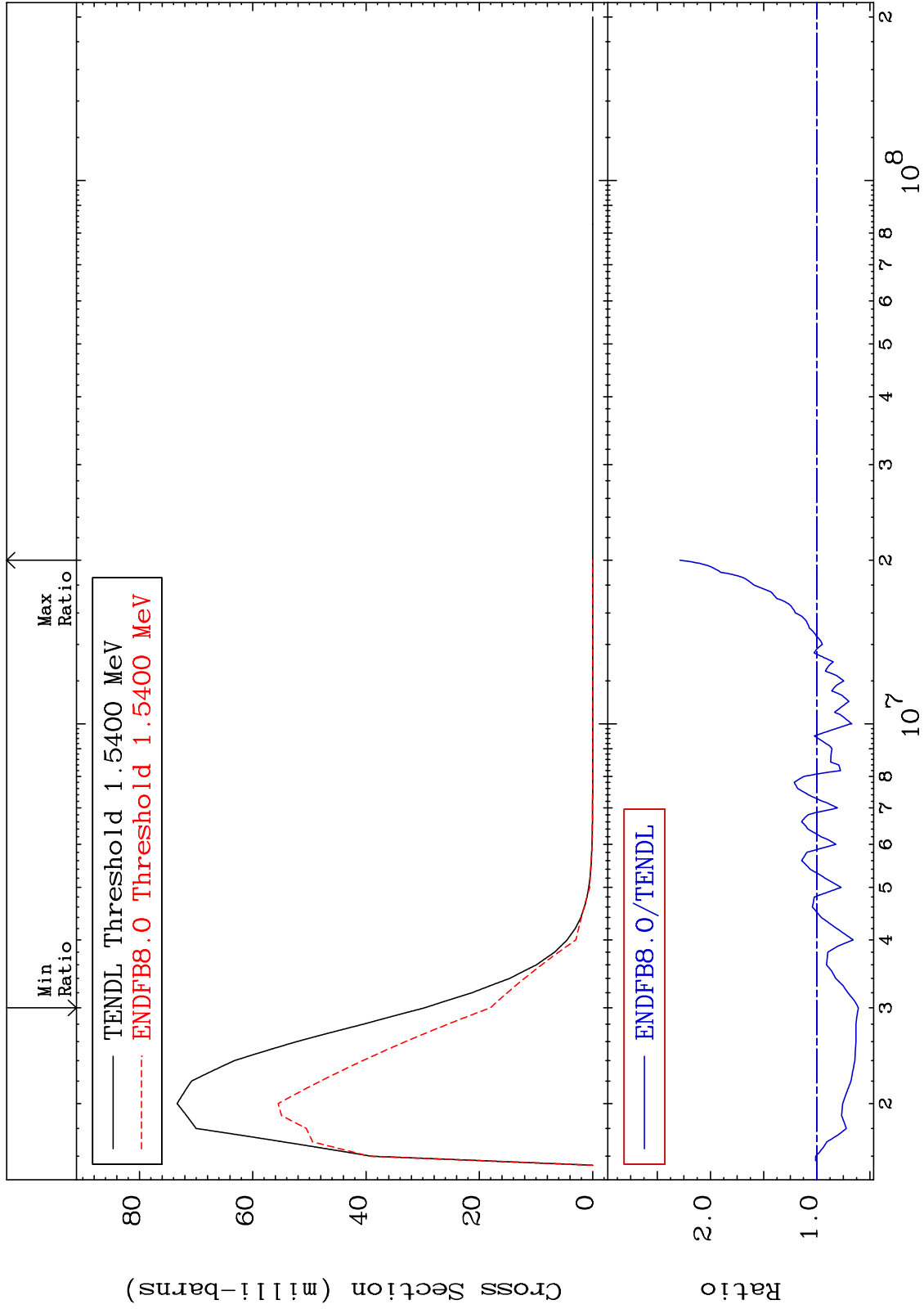
62-Sm-152  
-100.0 To 16.45 %



MAT 6249

MT= 71 (n,n') Level  
Cross Section

62-Sm-152  
-39.13 To 128.6 %



30

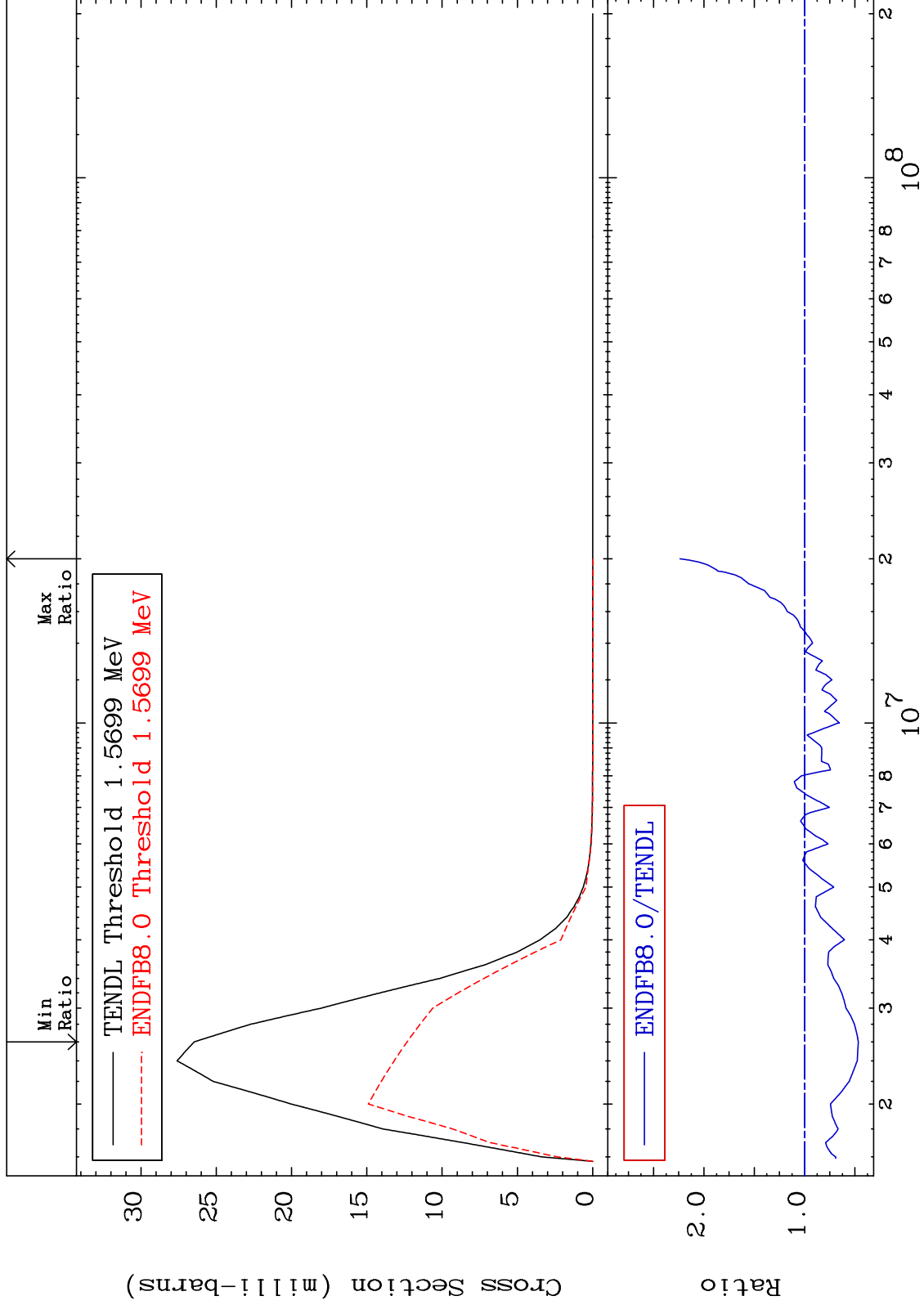
Incident Energy (eV)

62-Sm-152

MAT 6249

MT= 72 (n,n') Level  
Cross Section

62-Sm-152  
-53.42 To 123.7 %

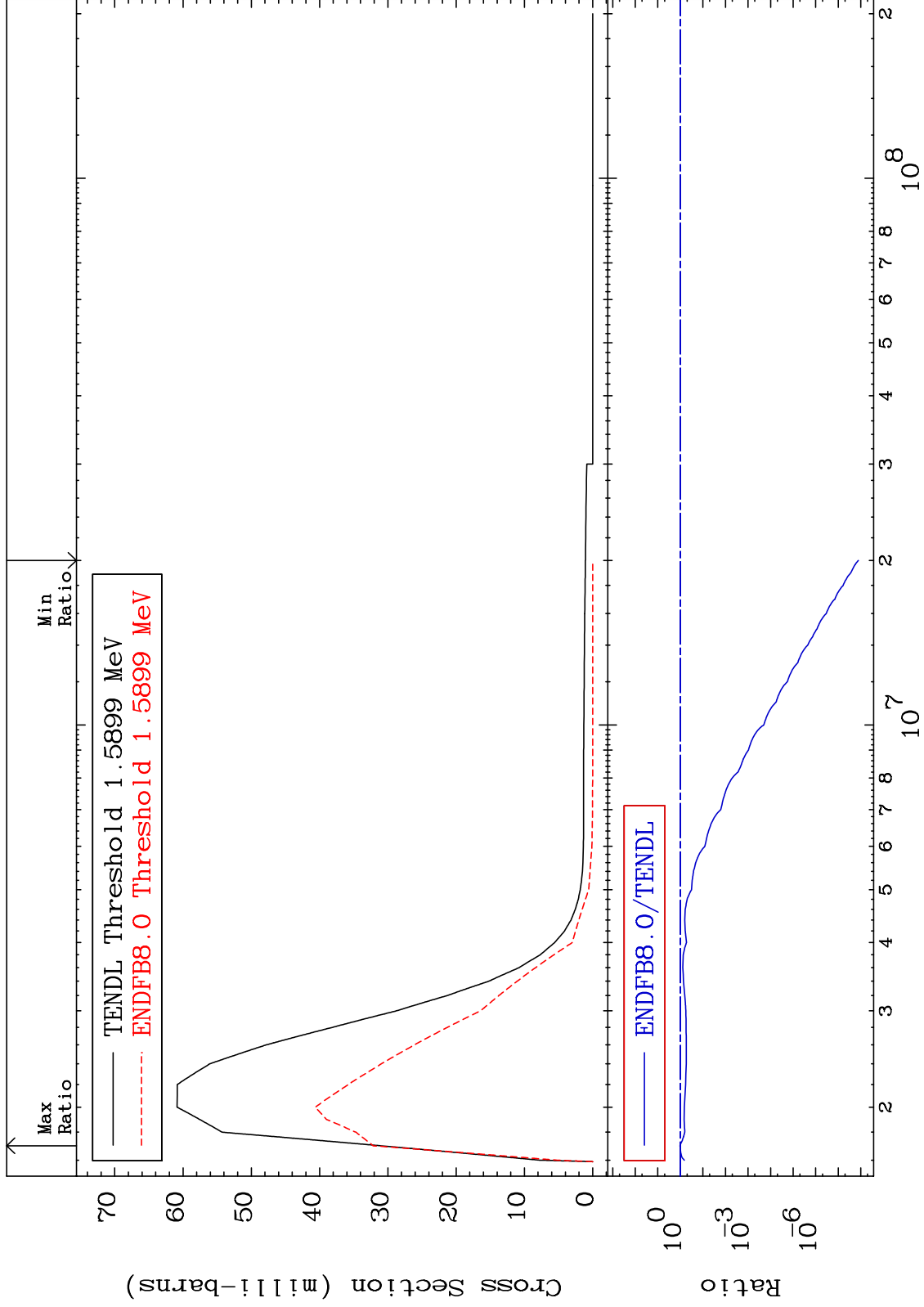




MAT 6249

MT= 73 (n,n') Level  
Cross Section

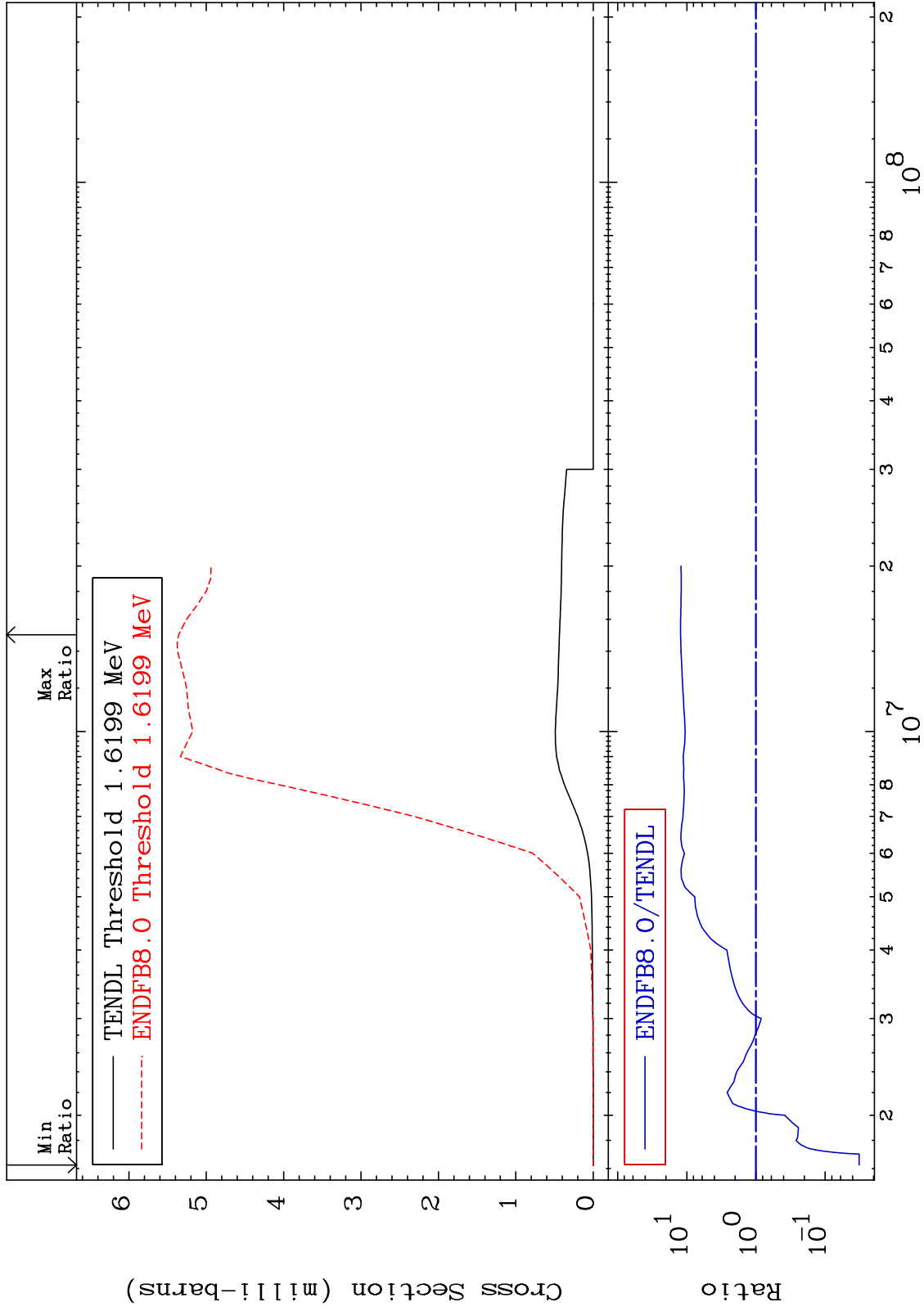
62-Sm-152  
-100.0 To 3.595 %



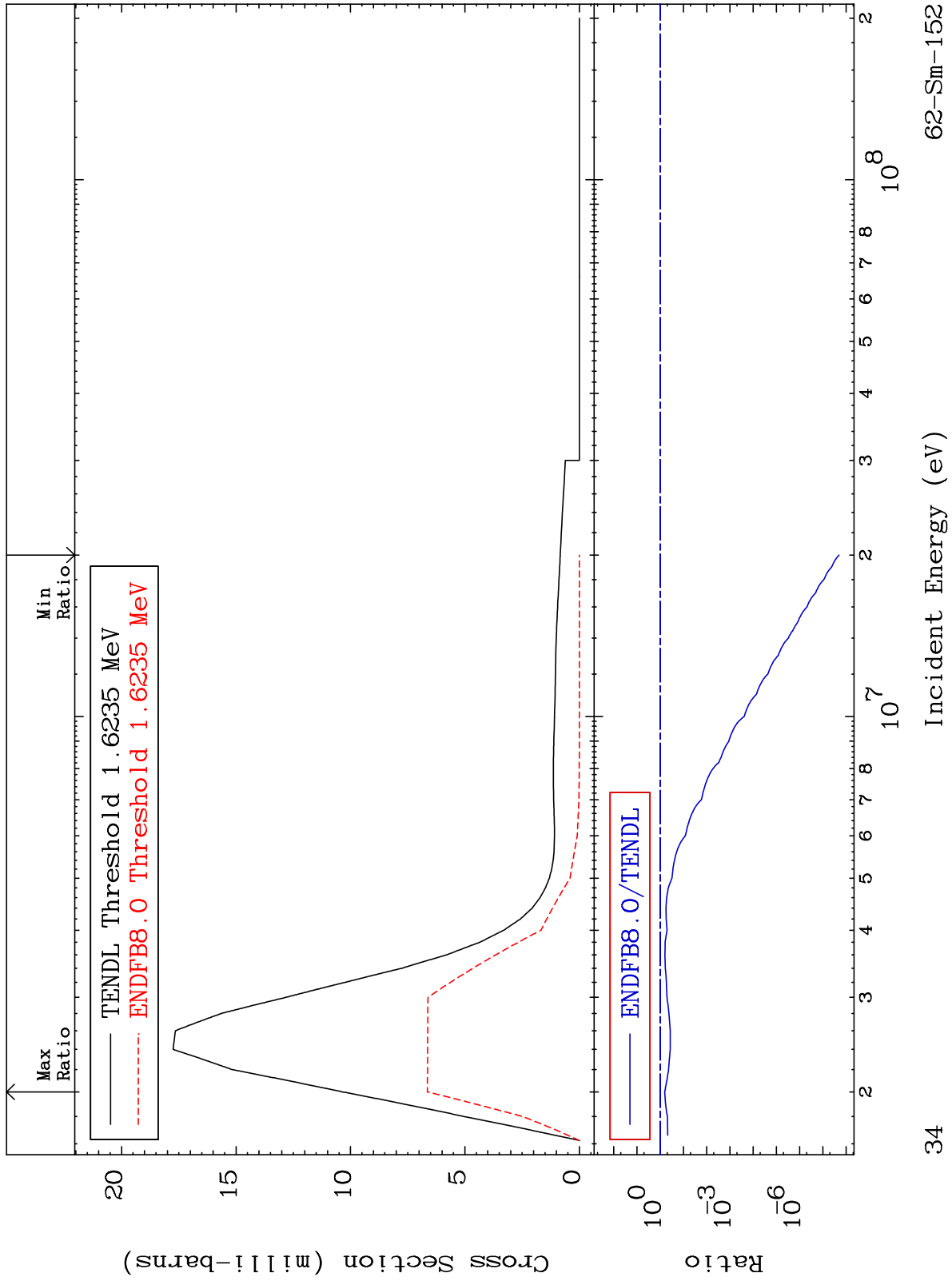
MAT 6249

MT= 74 (n,n') Level  
Cross Section

62-Sm-152  
-96.78 To 1128. %



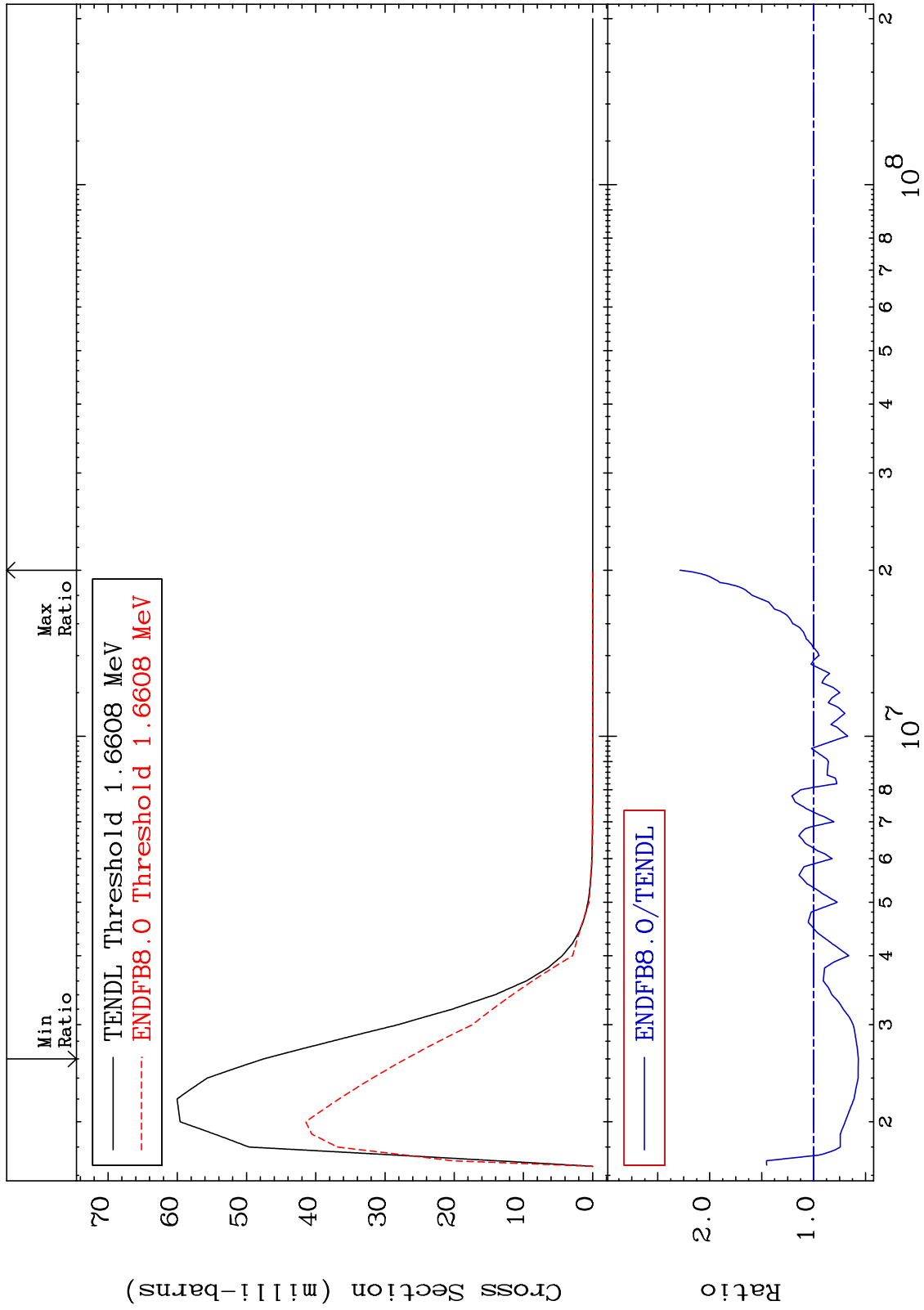
MAT 6249 MT= 75 (n,n') Level Cross Section 62-Sm-152  
 -100.0 To -35.89%



MAT 6249

MT= 76 (n,n') Level  
Cross Section

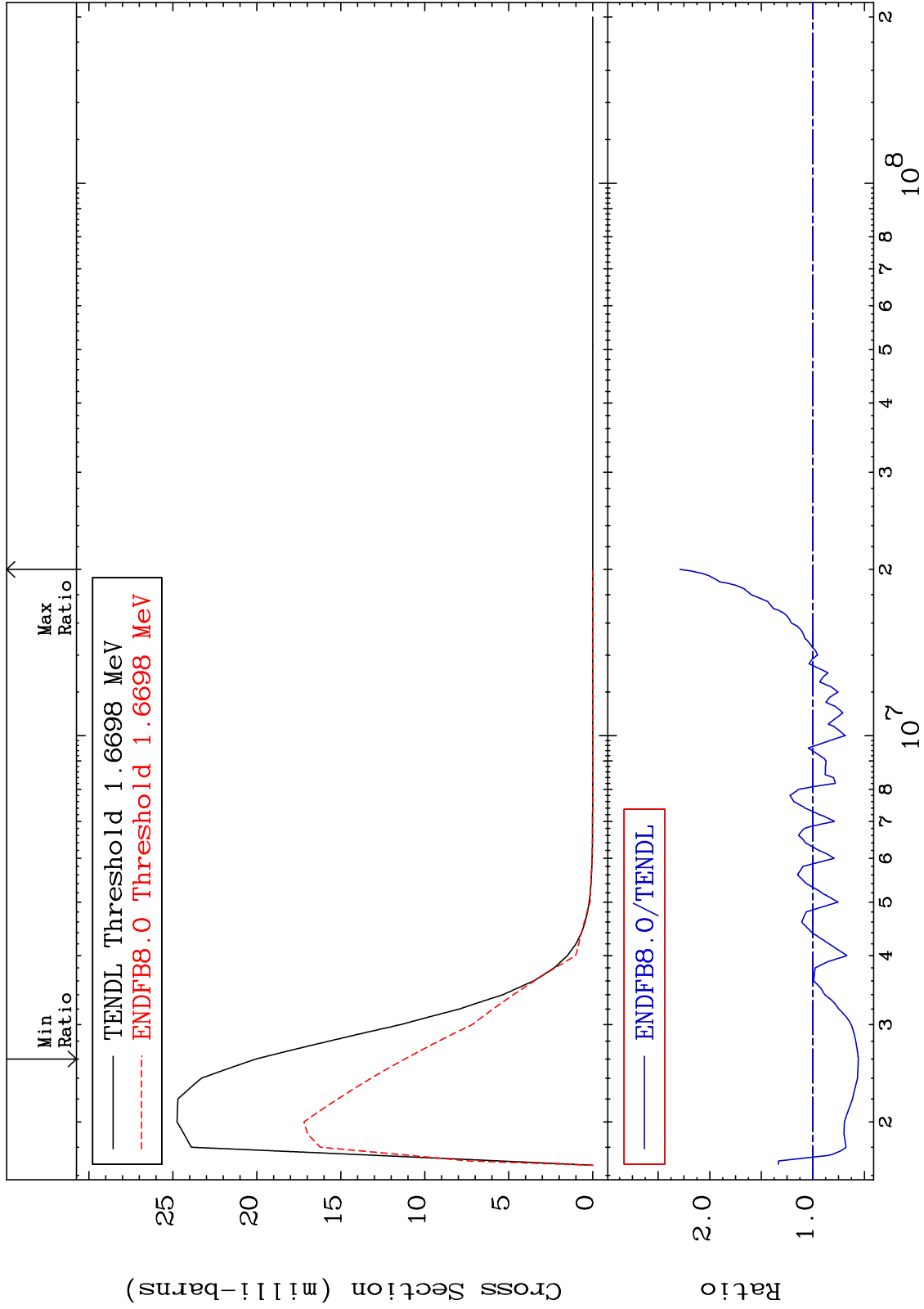
62-Sm-152  
-43.21 To 128.6 %



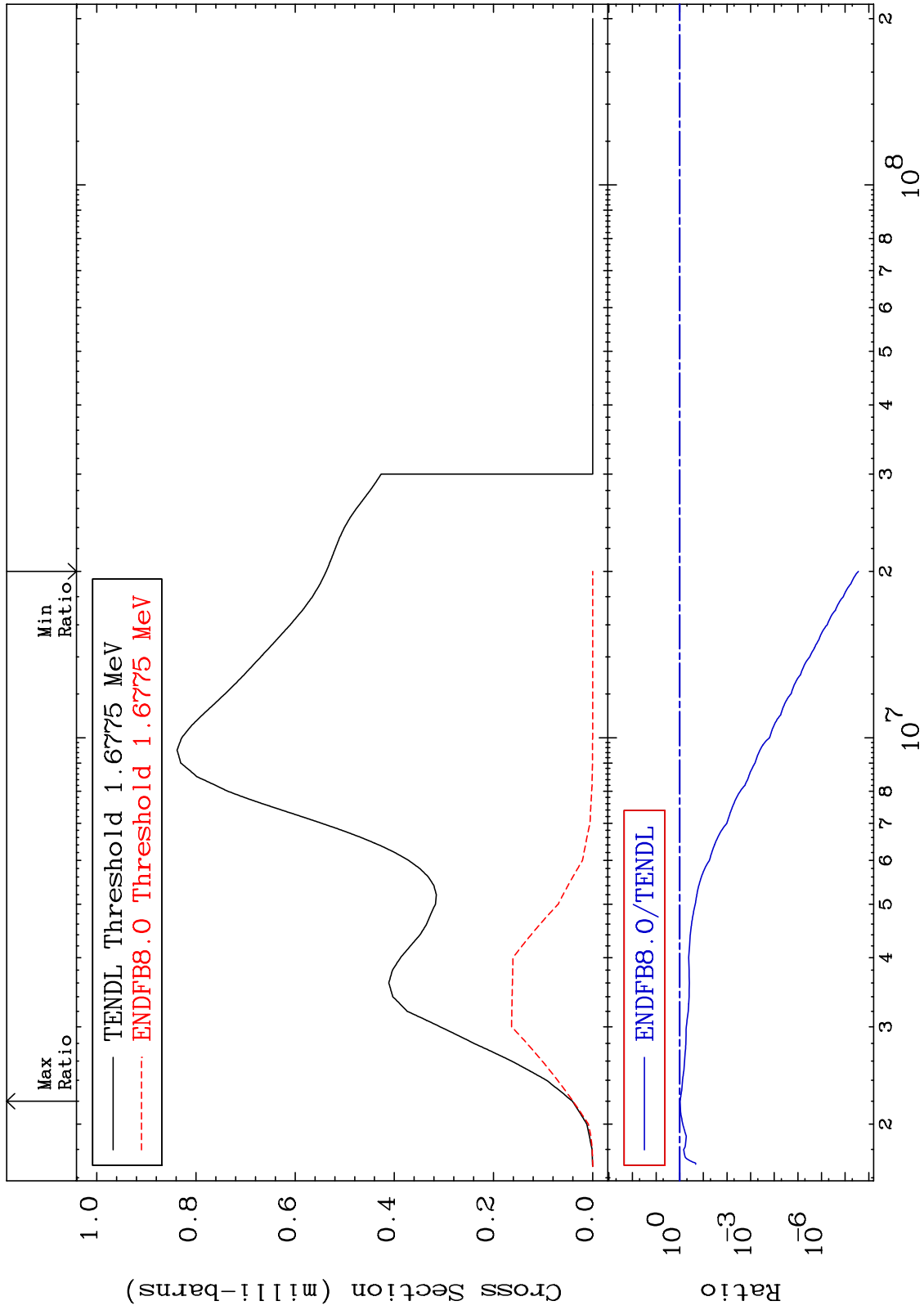
MAT 6249

MT= 77 (n,n') Level  
Cross Section

62-Sm-152  
-44.21 To 128.8 %



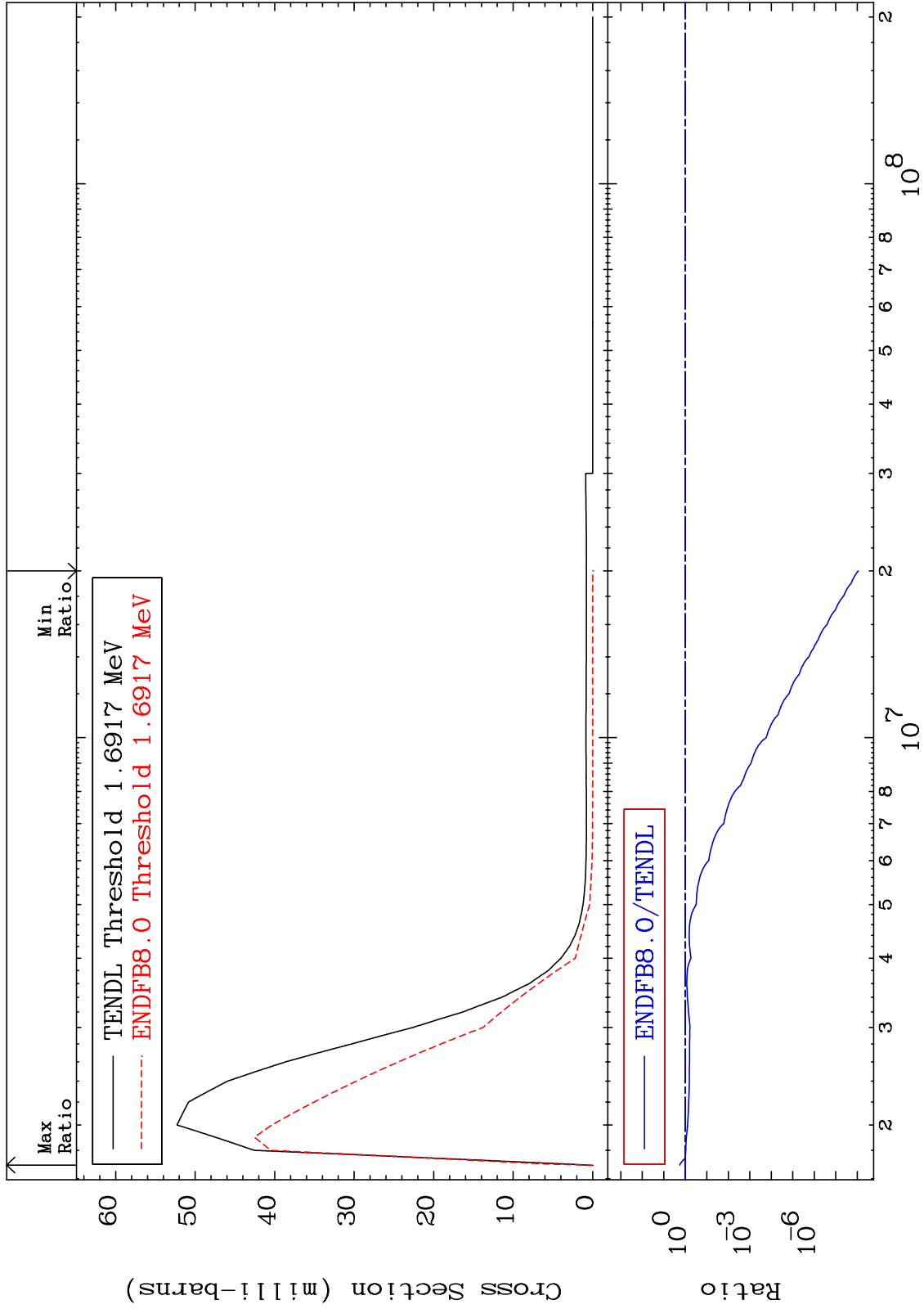
MAT 6249 MT= 78 (n,n') Level Cross Section 62-Sm-152  
 -100.0 To -2.822%



MAT 6249

MT= 79 (n,n') Level  
Cross Section

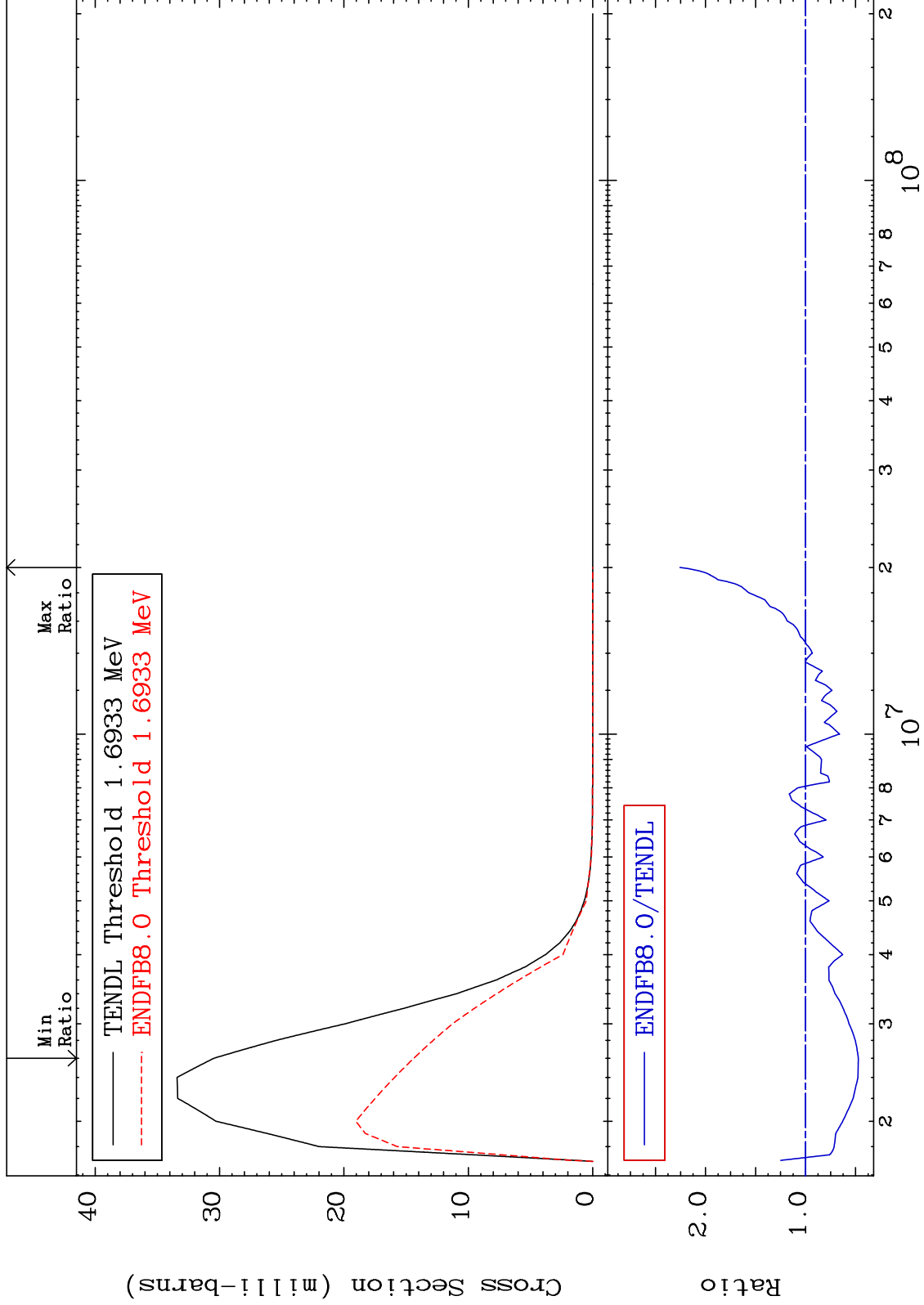
62-Sm-152  
-100.0 To 75.46 %



MAT 6249

MT= 80 (n,n') Level  
Cross Section

62-Sm-152  
-52.78 To 125.5 %

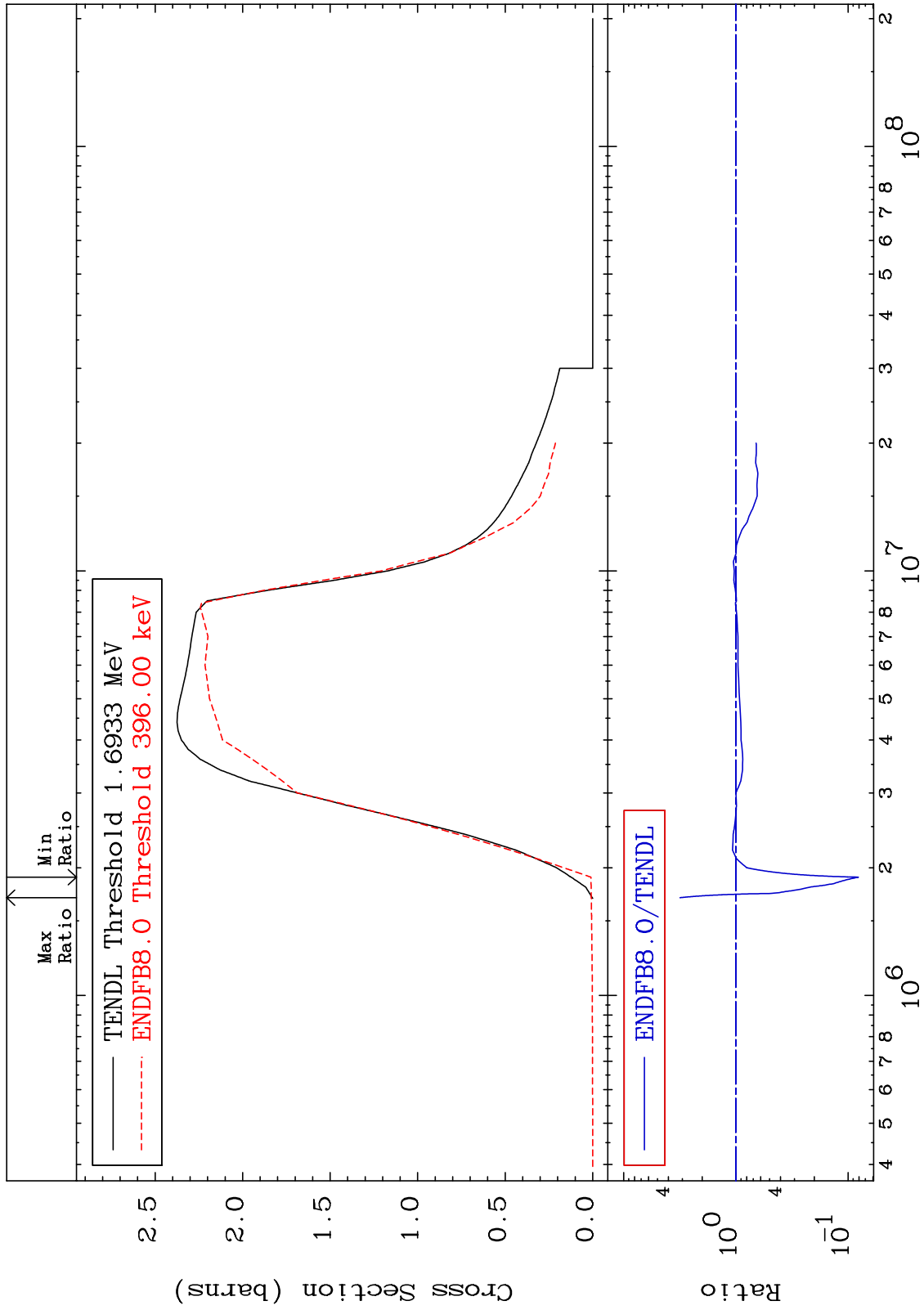




MAT 6249

(n, n') Continuum  
Cross Section

62-Sm-152  
-91.91 To 214.6 %



40

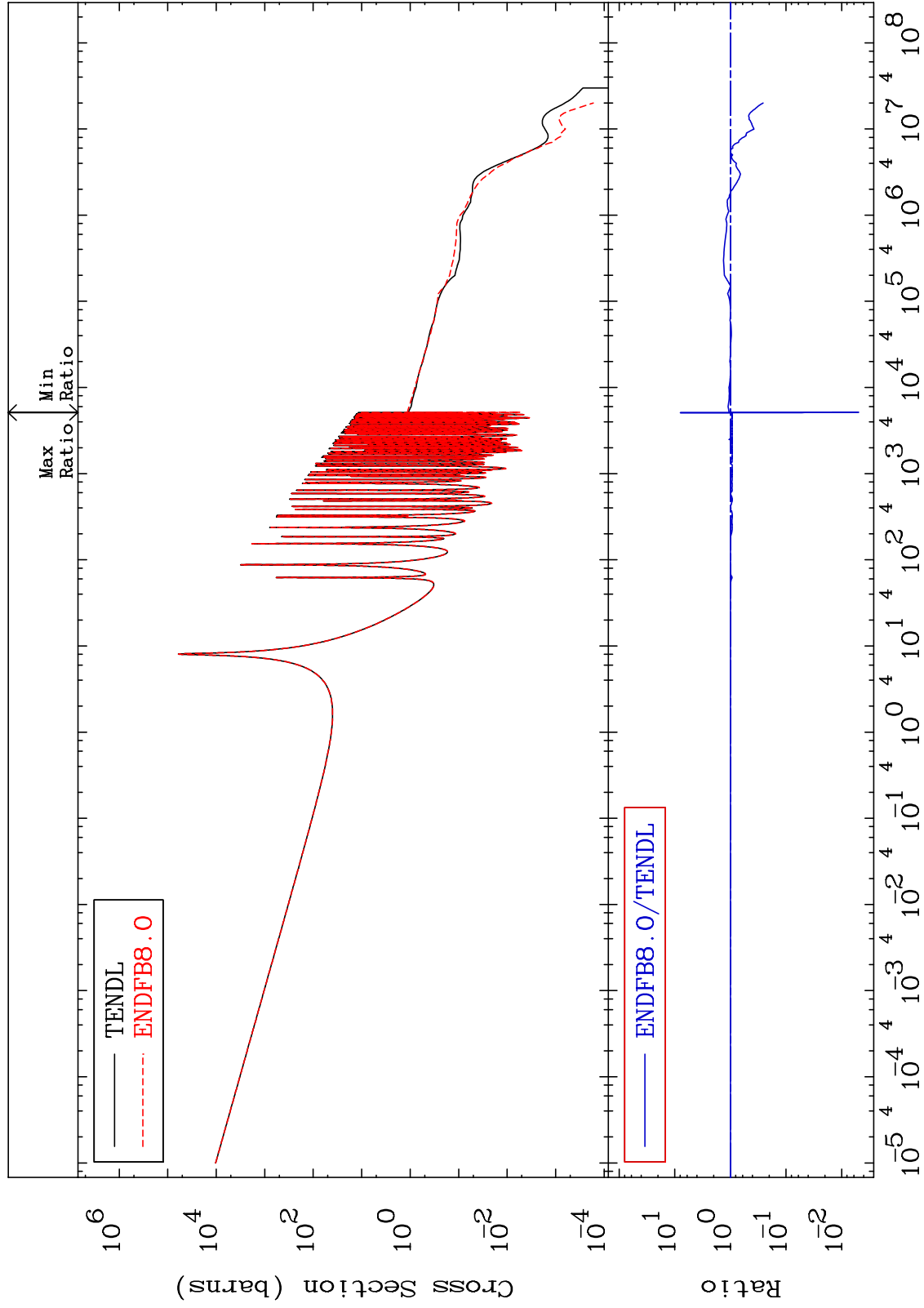
62-Sm-152

62-Sm-152

MAT 6249

(n,  $\gamma$ )  
Cross Section

62-Sm-152  
-99.50 To 690.4 %



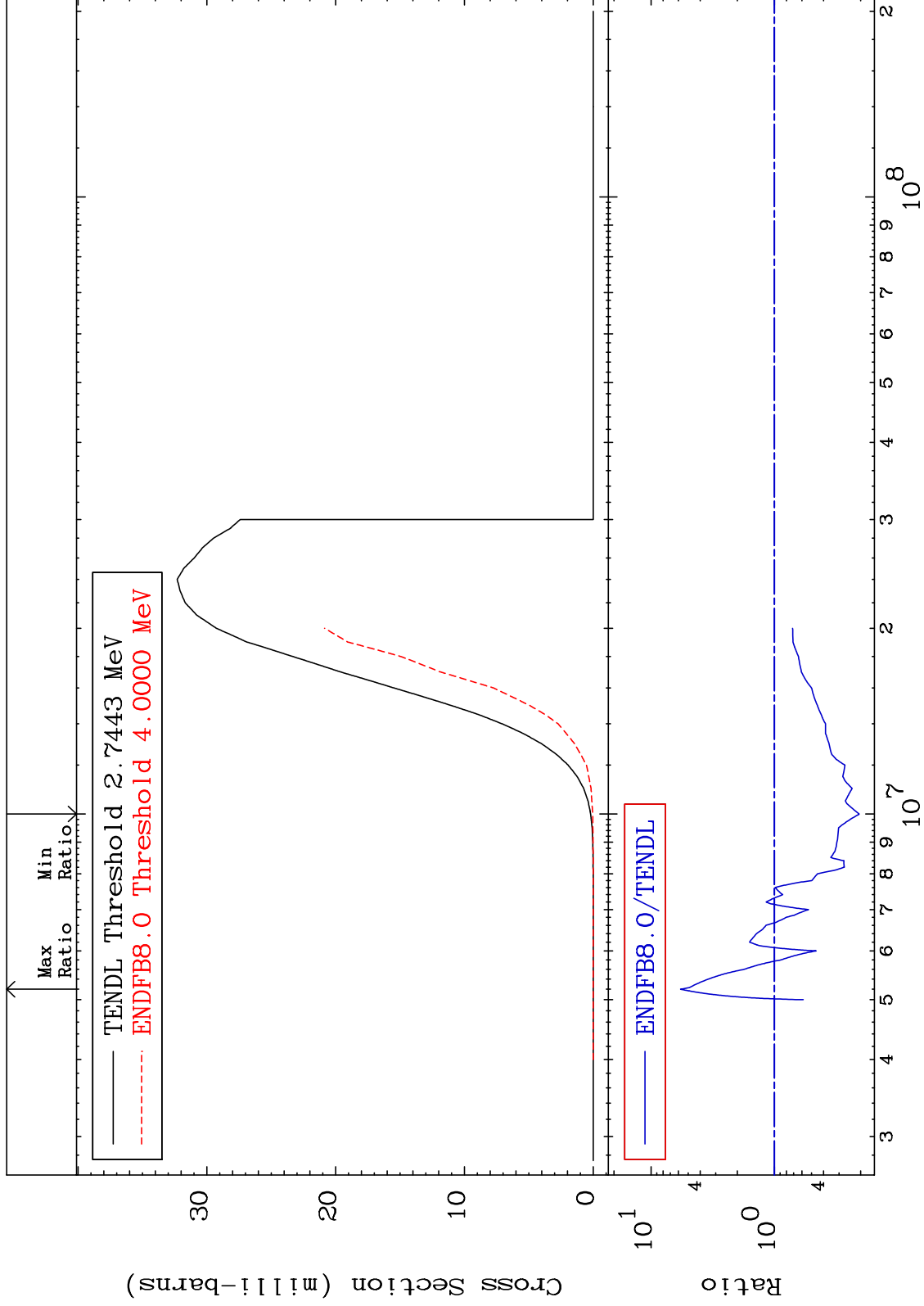
MAT 6249

(n, p)

62-Sm-152

Cross Section

-79.40 To 476.4 %



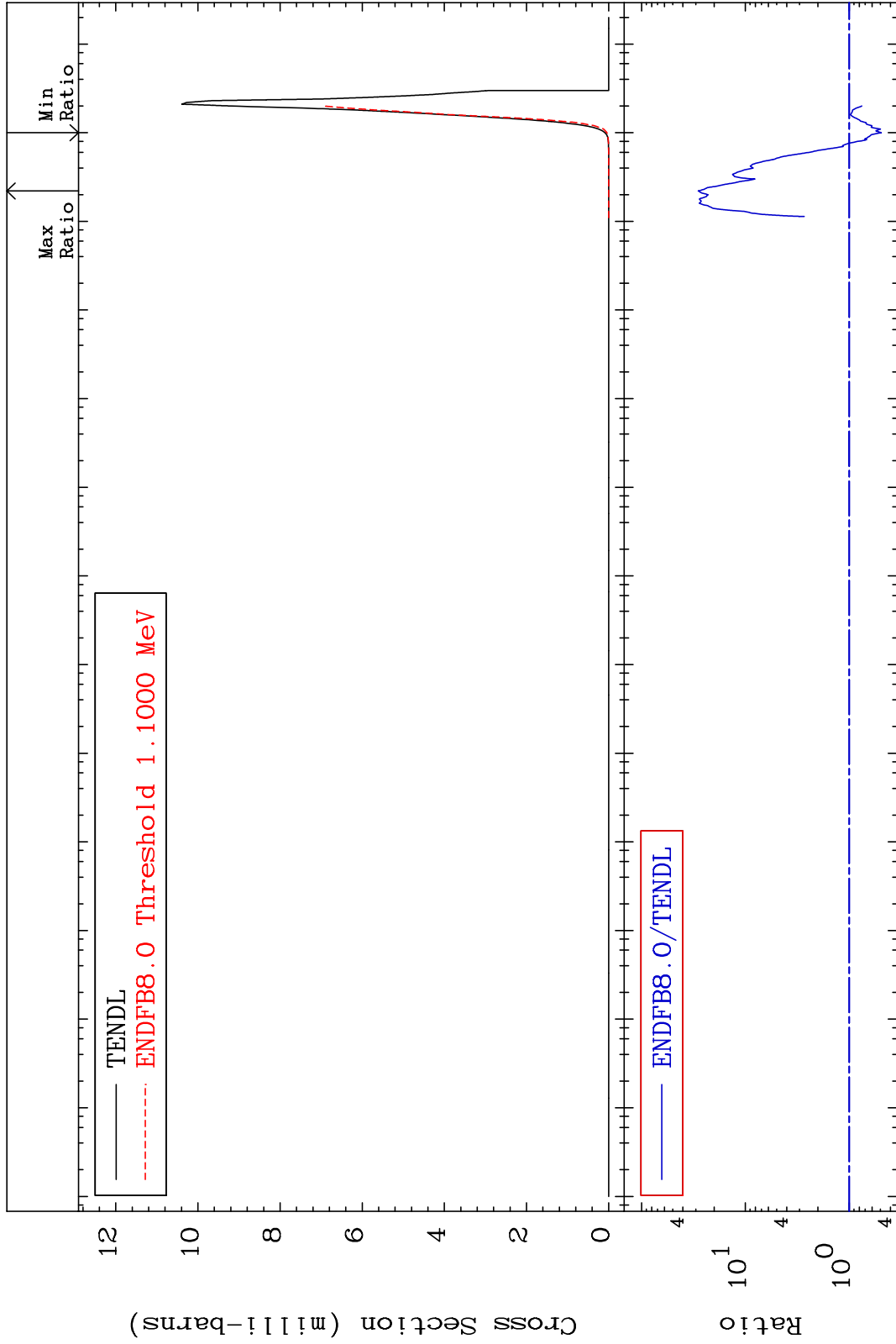
MAT 6249

(n,  $\alpha$ )

62-Sm-152

Cross Section

-51.23 To 2735. %



— TENDL  
- - - ENDFB8.0 Threshold 1.1000 MeV

— ENDFB8.0/TENDL

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)

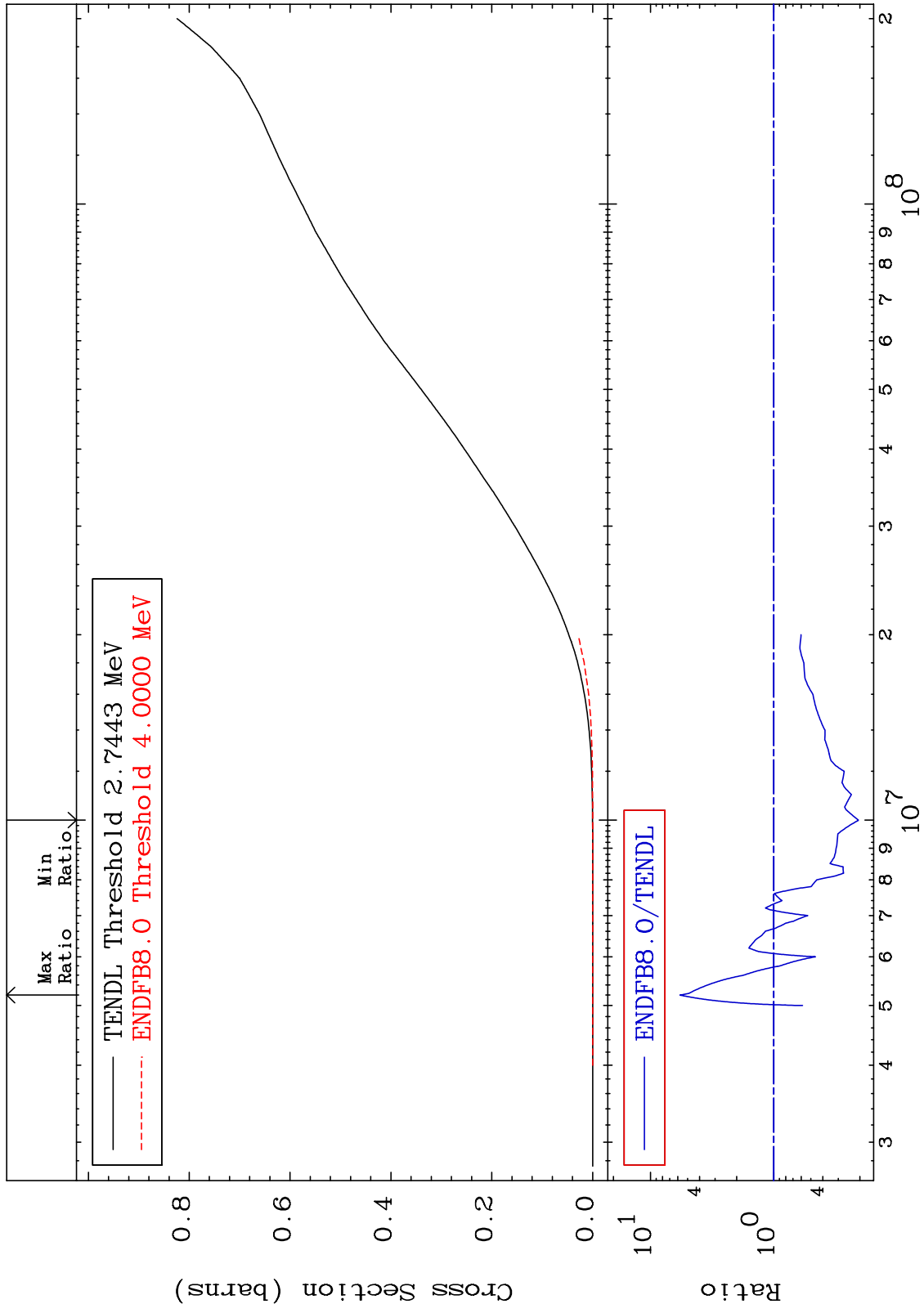
62-Sm-152

43

MAT 6249

### Hydrogen Production Cross Section

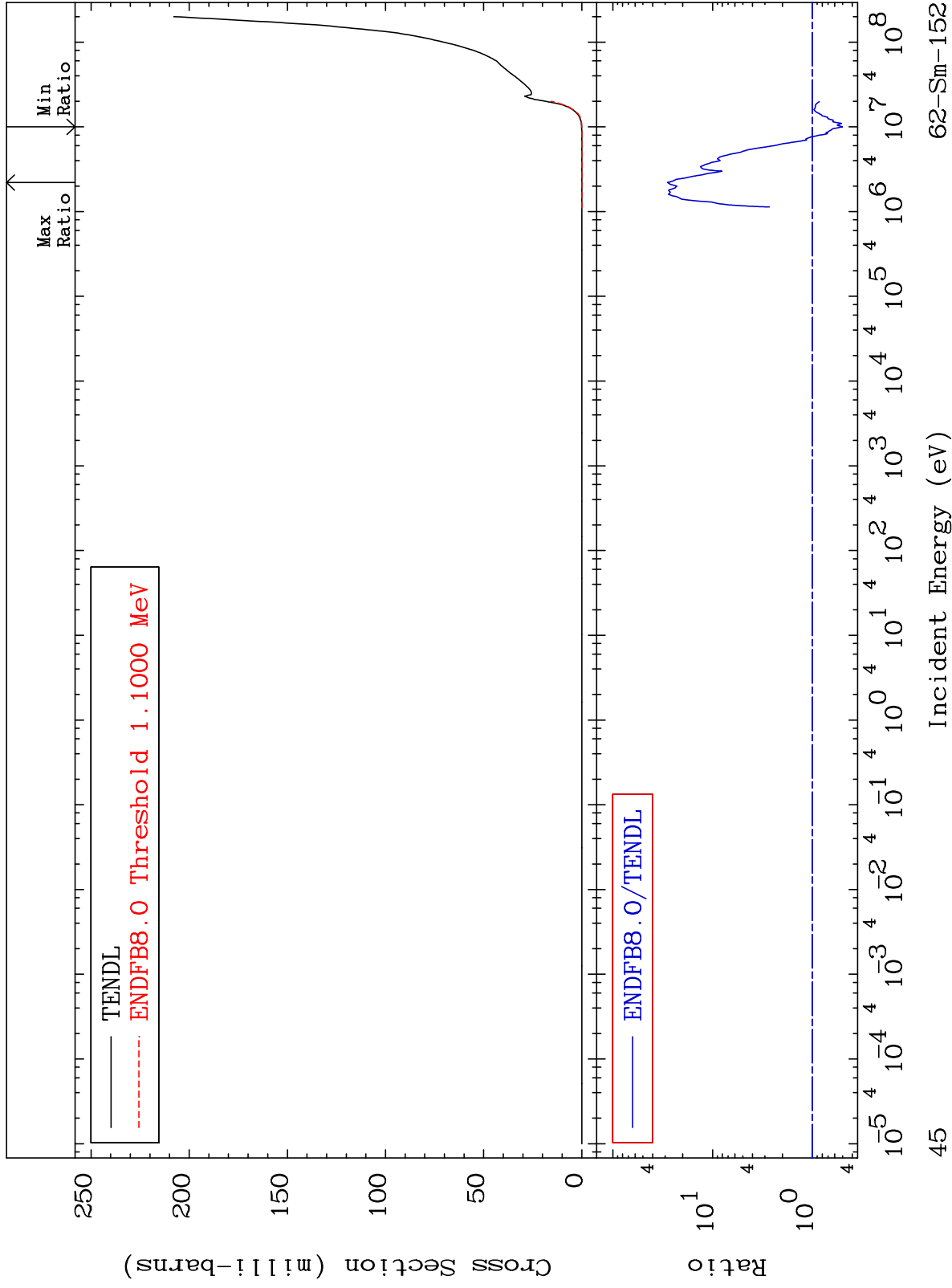
62-Sm-152  
-79.40 To 476.4 %



MAT 6249

He-4 Production  
Cross Section

62-Sm-152  
-50.14 To 2735. %



45

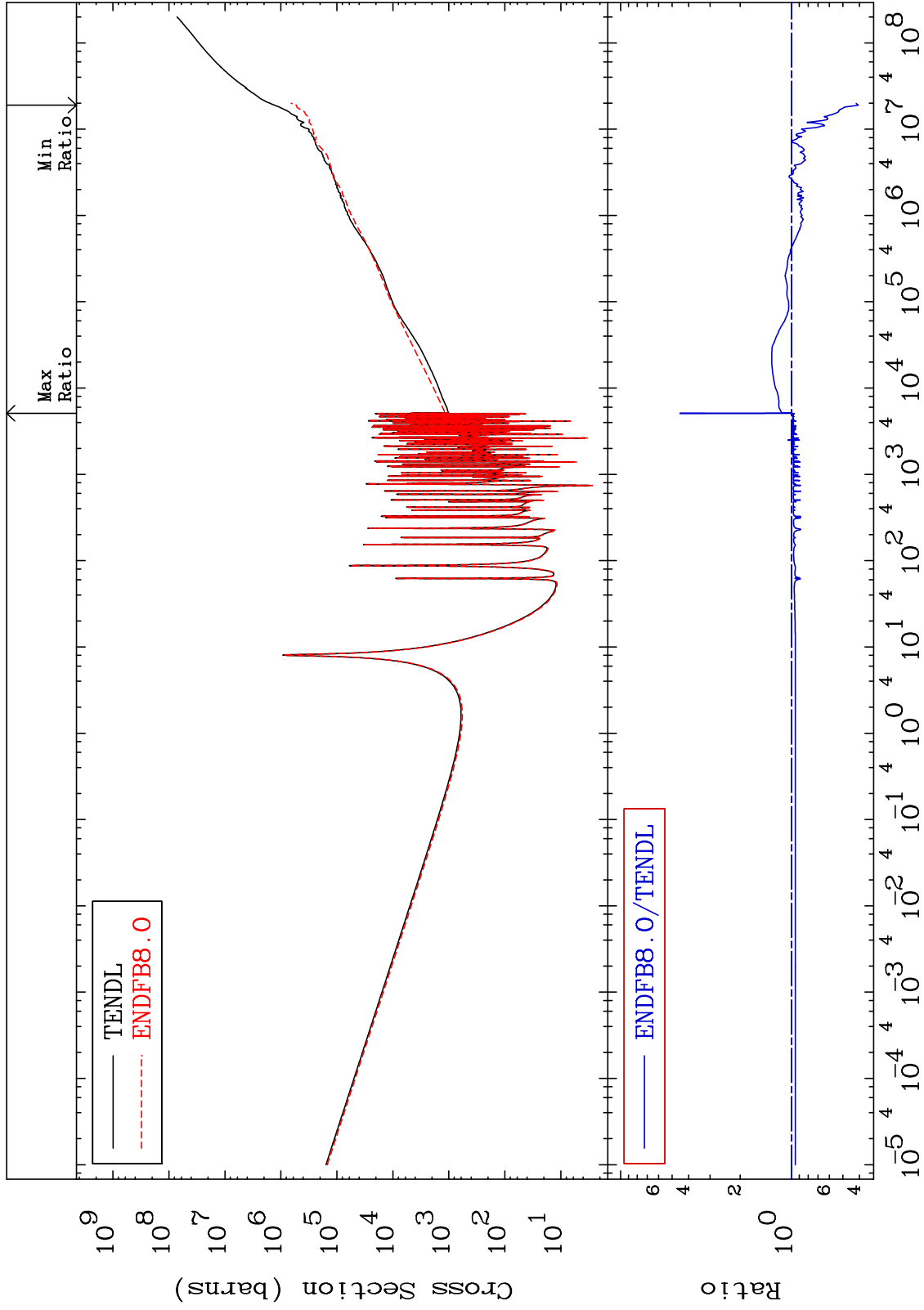
Incident Energy (eV)

62-Sm-152

MAT 6249

Kerma total (eV-barns)  
Cross Section

62-Sm-152  
-59.39 To 349.4 %



46

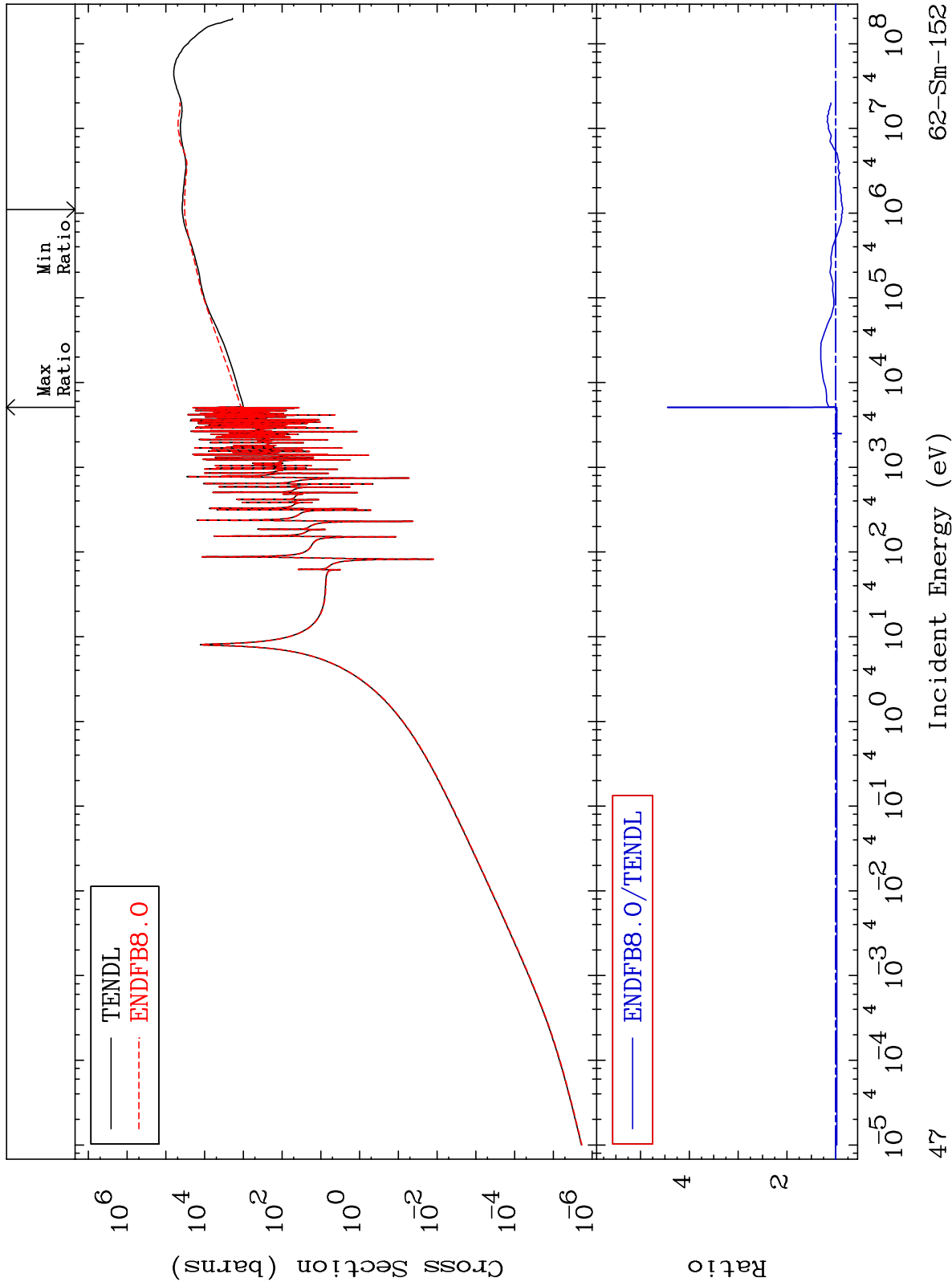
Incident Energy (eV)

62-Sm-152

MAT 6249

Kerma elastic  
Cross Section

62-Sm-152  
-14.16 To 344.4 %



47

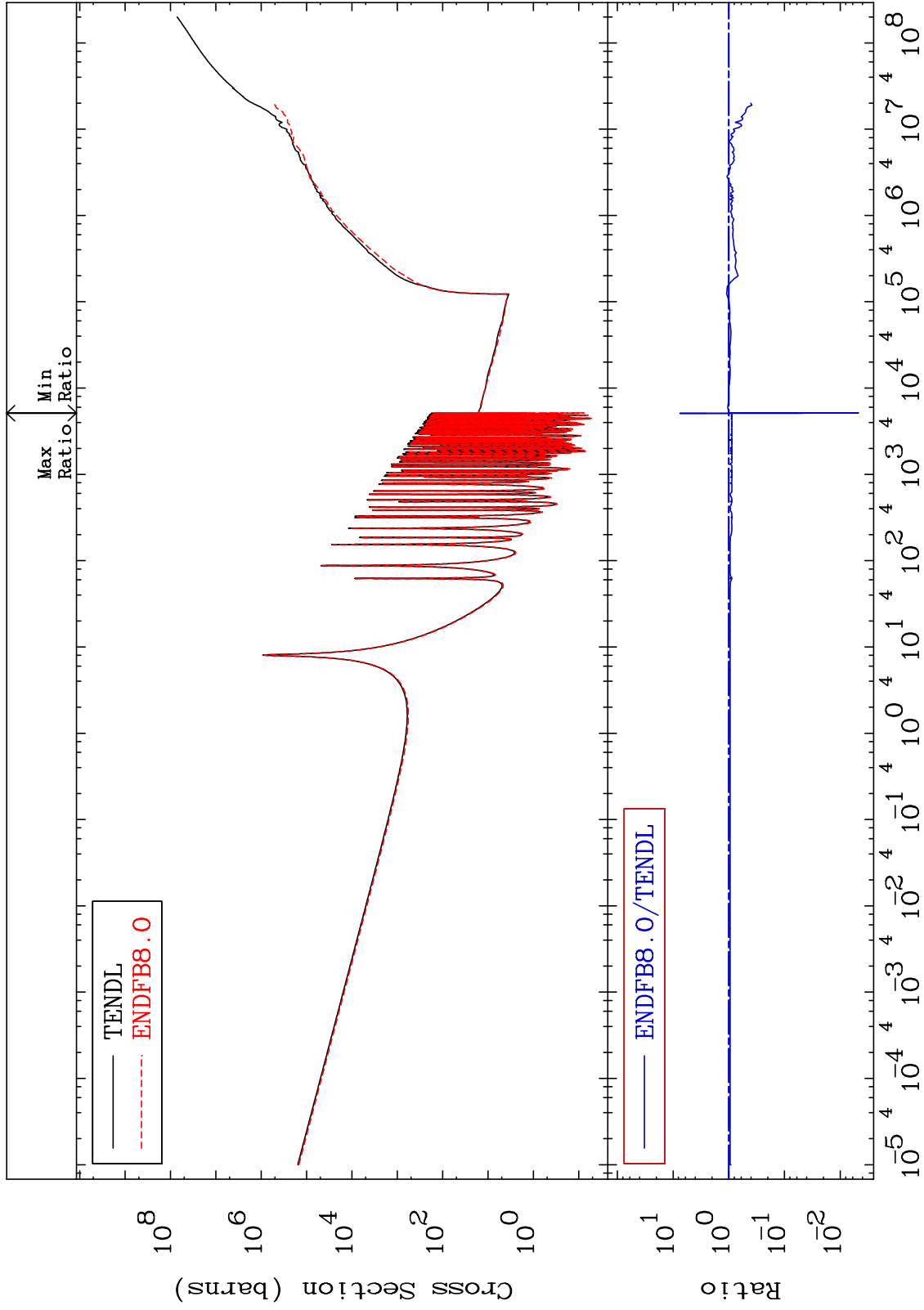
62-Sm-152



MAT 6249

Kerma non-elastic (all but mt2)  
Cross Section

62-Sm-152  
-99.53 To 651.2 %



48

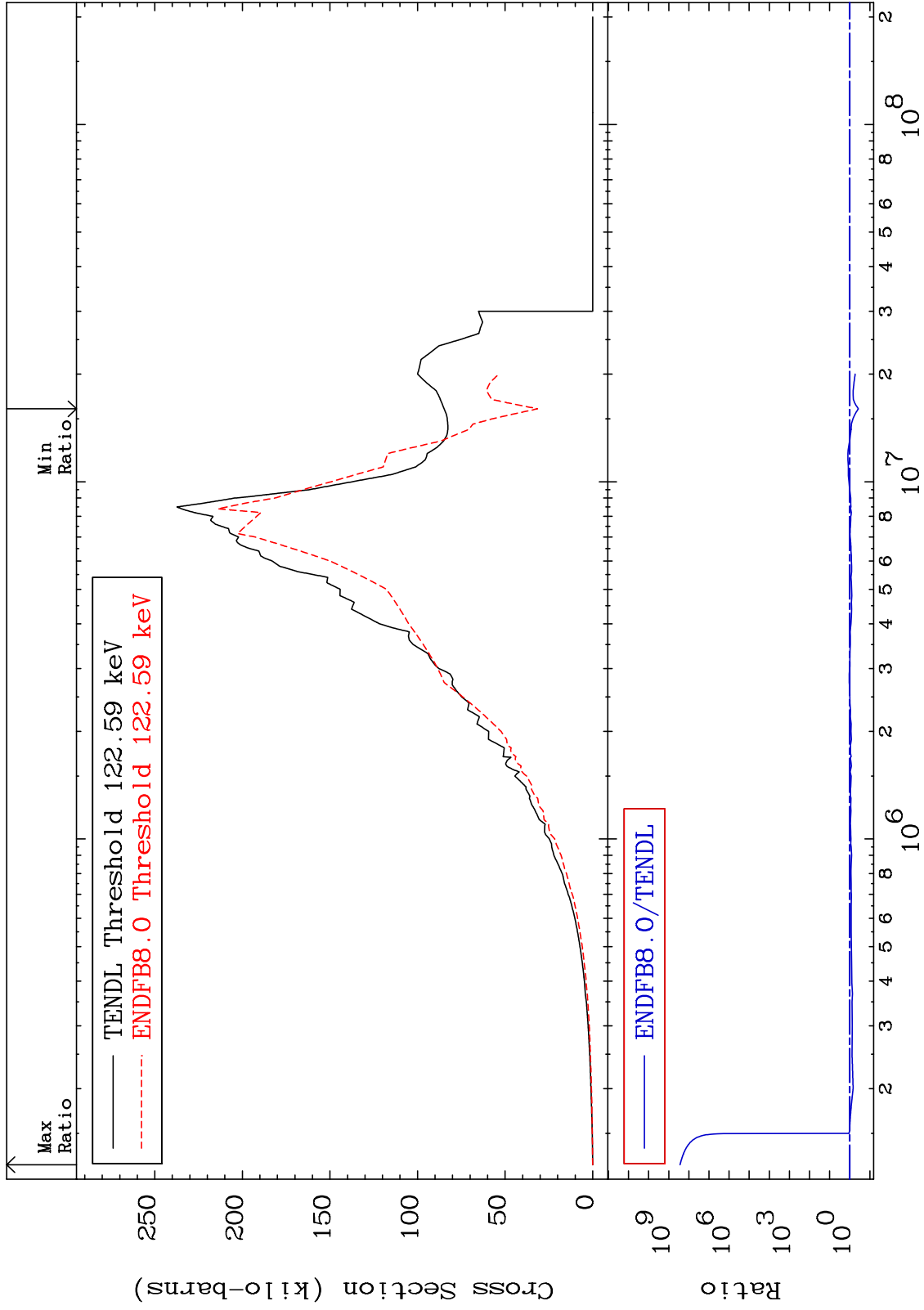
Incident Energy (eV)

62-Sm-152

MAT 6249

Kerma inelastic (mt51-91)  
Cross Section

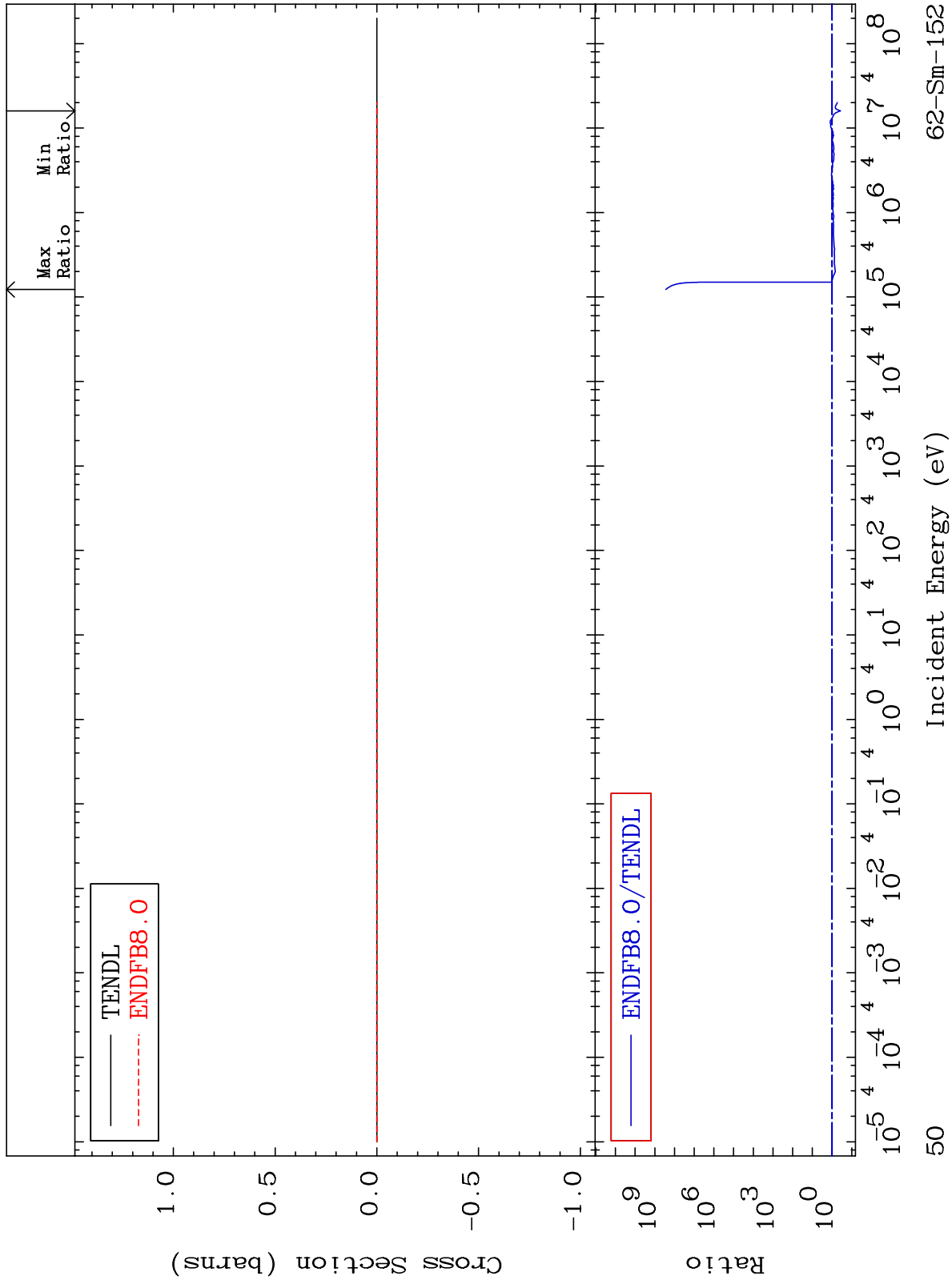
62-Sm-152  
-62.91 To 9999. %



MAT 6249

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

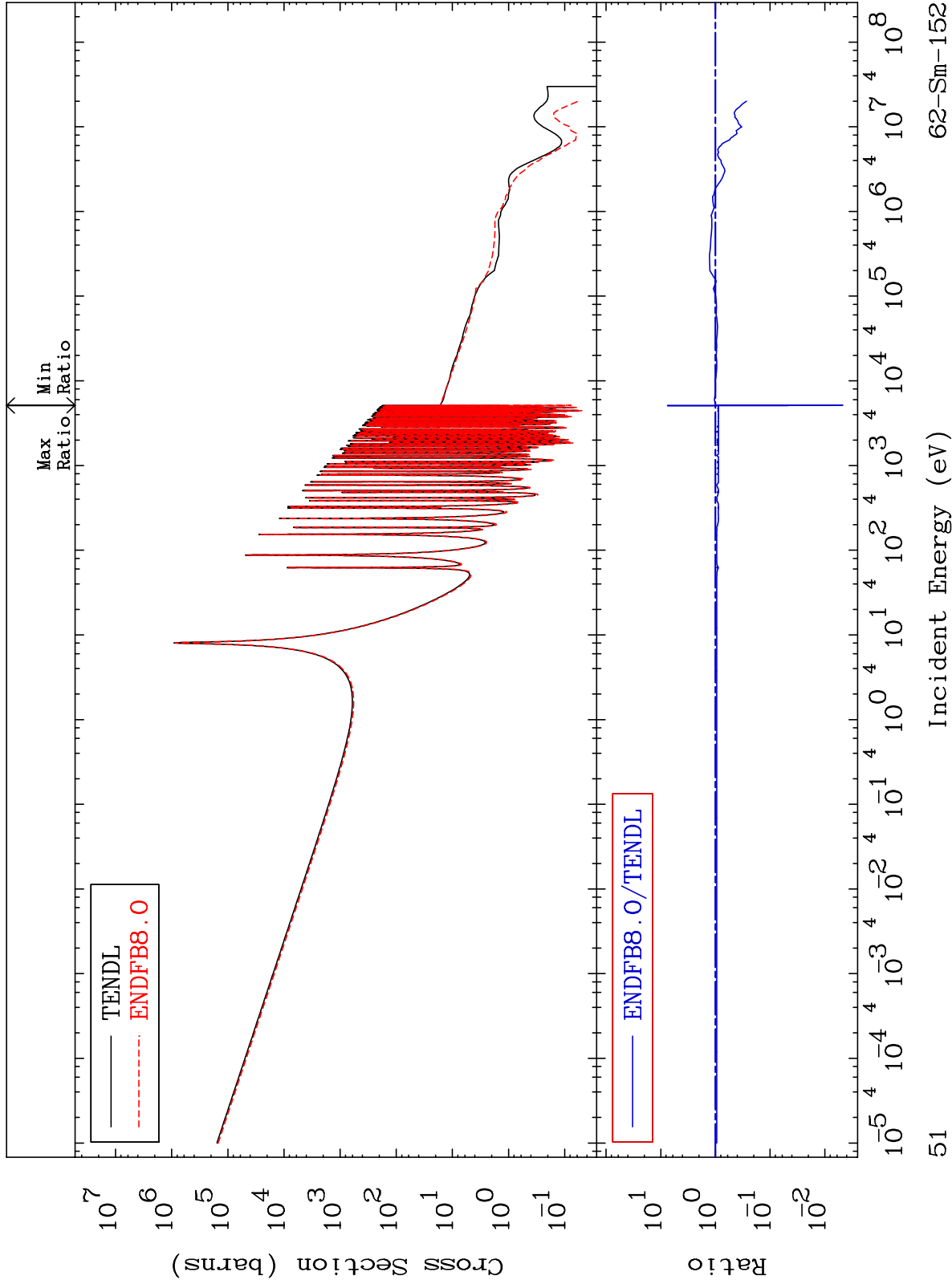
62-Sm-152  
-62.91 To 9999. %



MAT 6249

Kerma capture (mt102)  
Cross Section

62-Sm-152  
-99.53 To 651.2 %



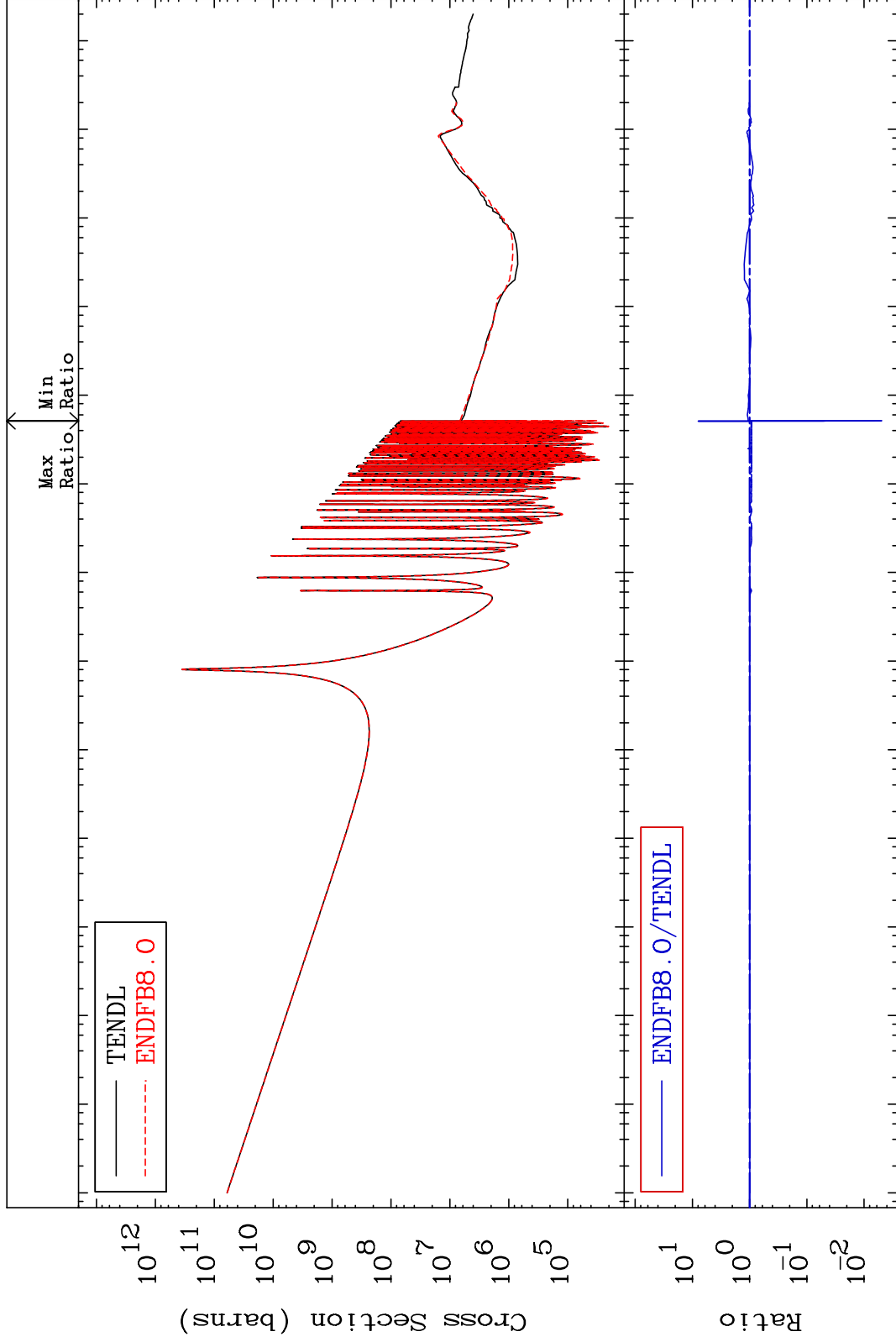
51

62-Sm-152

MAT 6249

Total photon (eV-barns)  
Cross Section

62-Sm-152  
-99.51 To 687.6 %



52

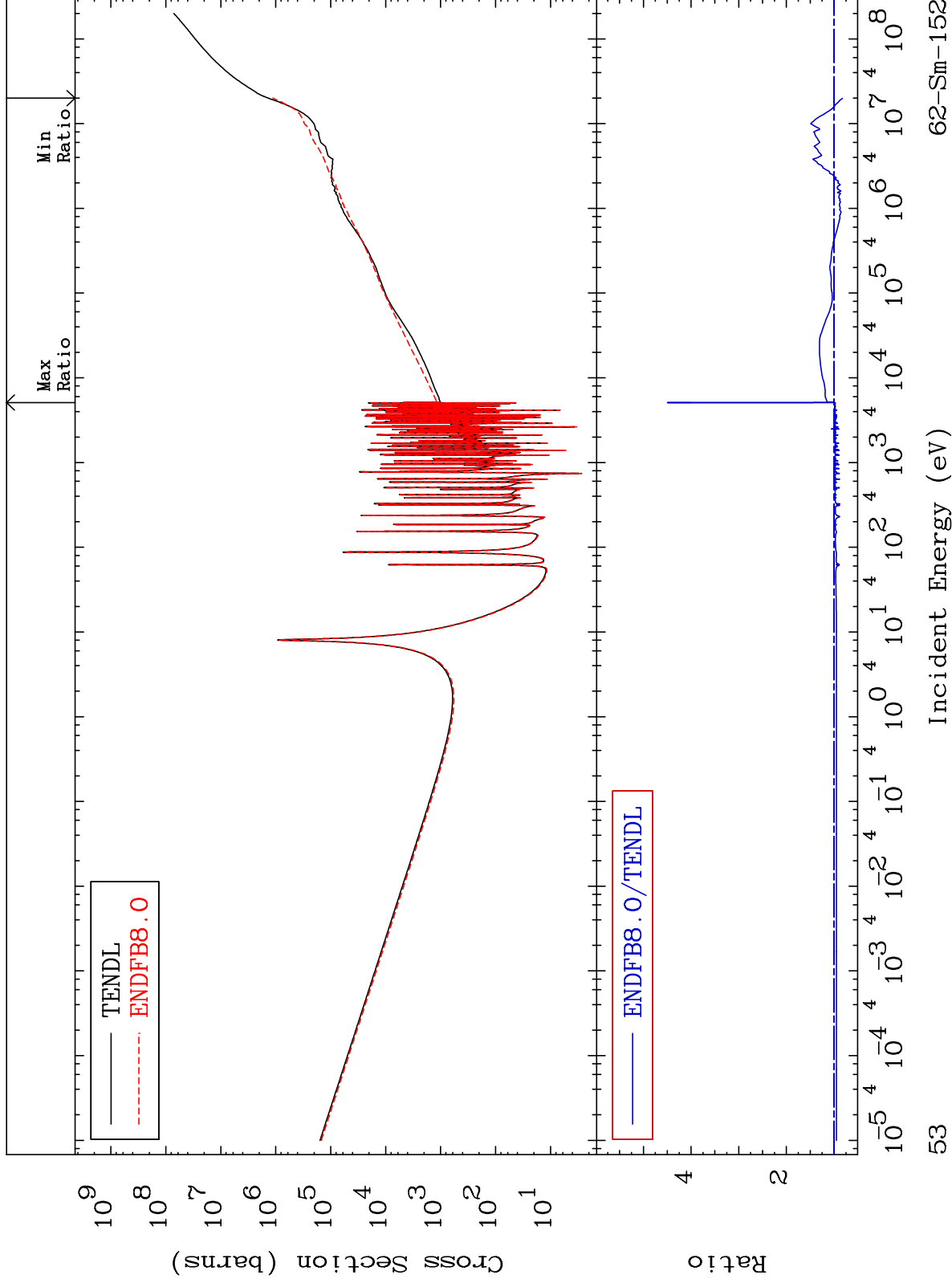
Incident Energy (eV)

62-Sm-152

MAT 6249

Total kinematic kerma (high limit)  
Cross Section

62-Sm-152  
-18.11 To 349.4 %



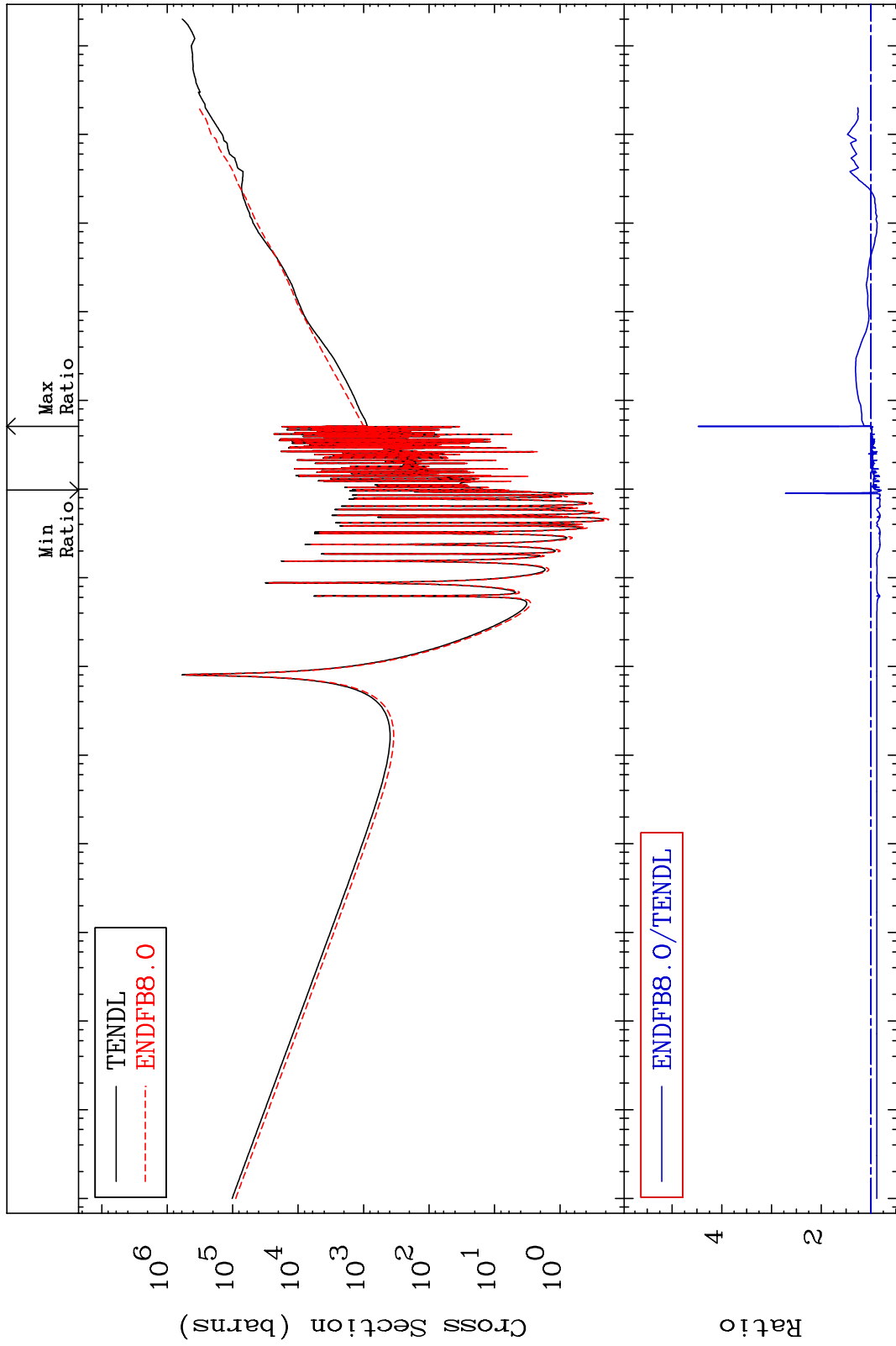
53

62-Sm-152

MAT 6249

Dpa total (eV-barns)  
Cross Section

62-Sm-152  
-21.47 To 347.2 %



54

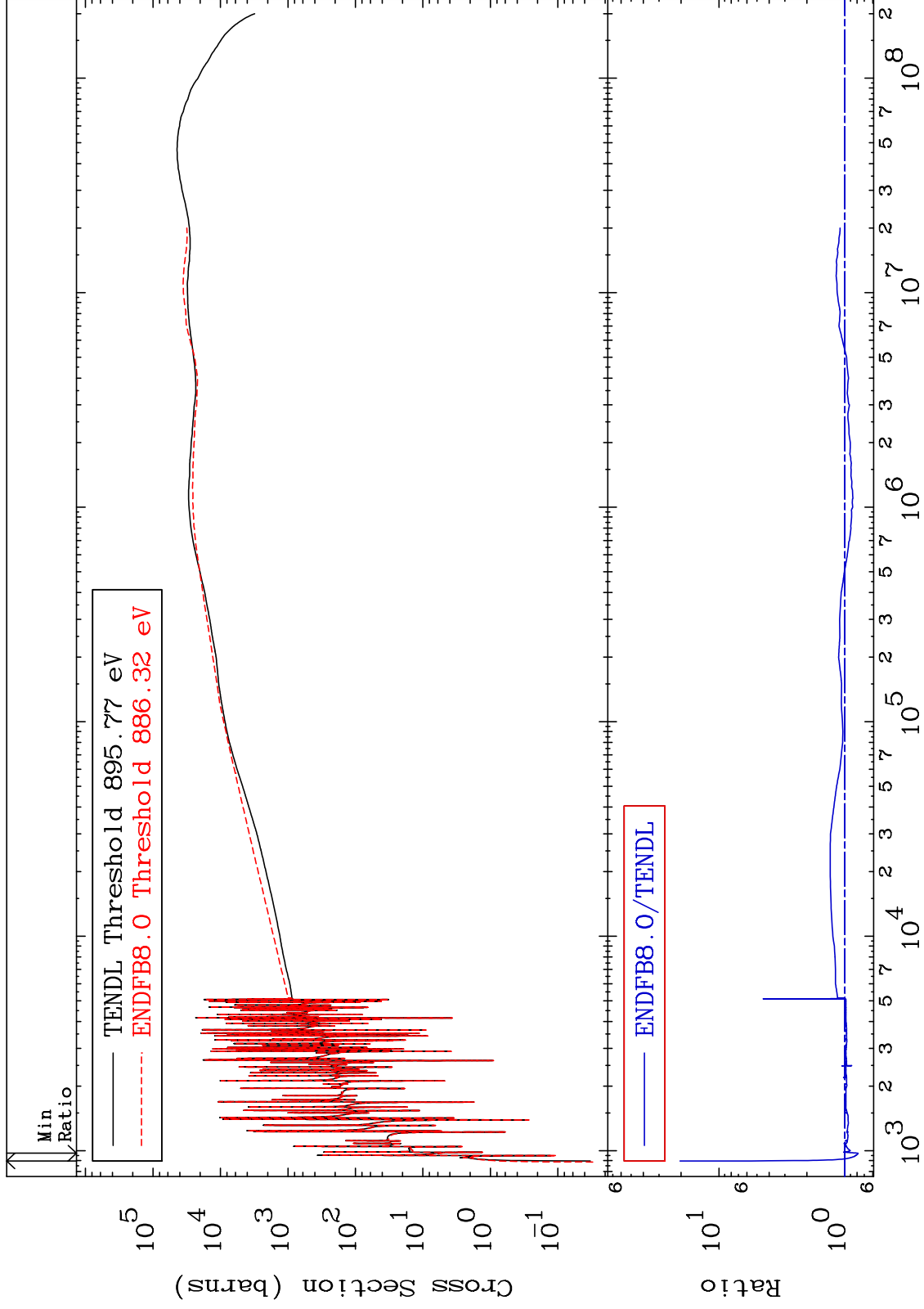
Incident Energy (eV)

62-Sm-152

MAT 6249

Dpa elastic (mt2)  
Cross Section

62-Sm-152  
-22.01 To 1941. %



55

62-Sm-152

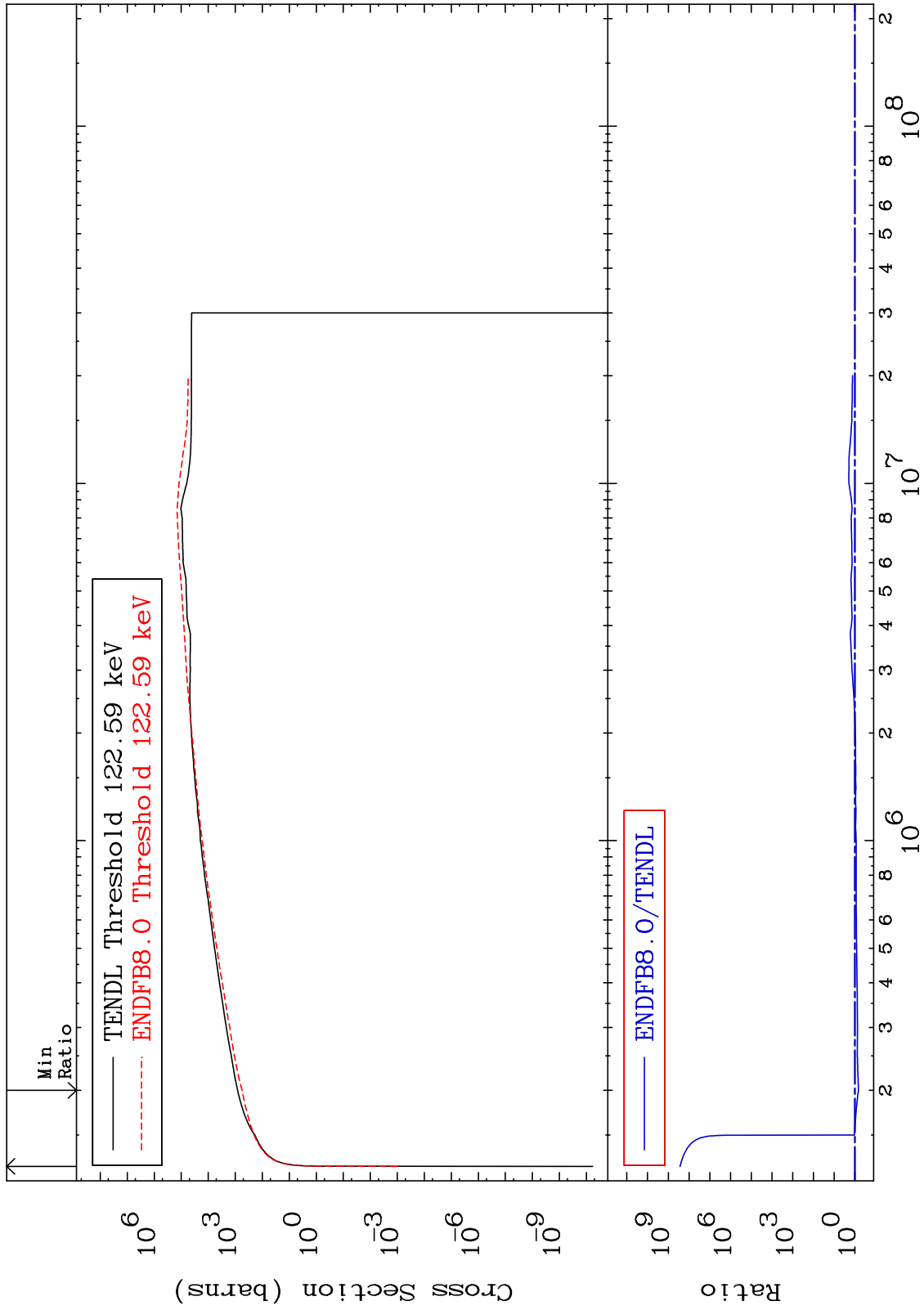
62-Sm-152



MAT 6249

Dpa inelastic (mt51-91)  
Cross Section

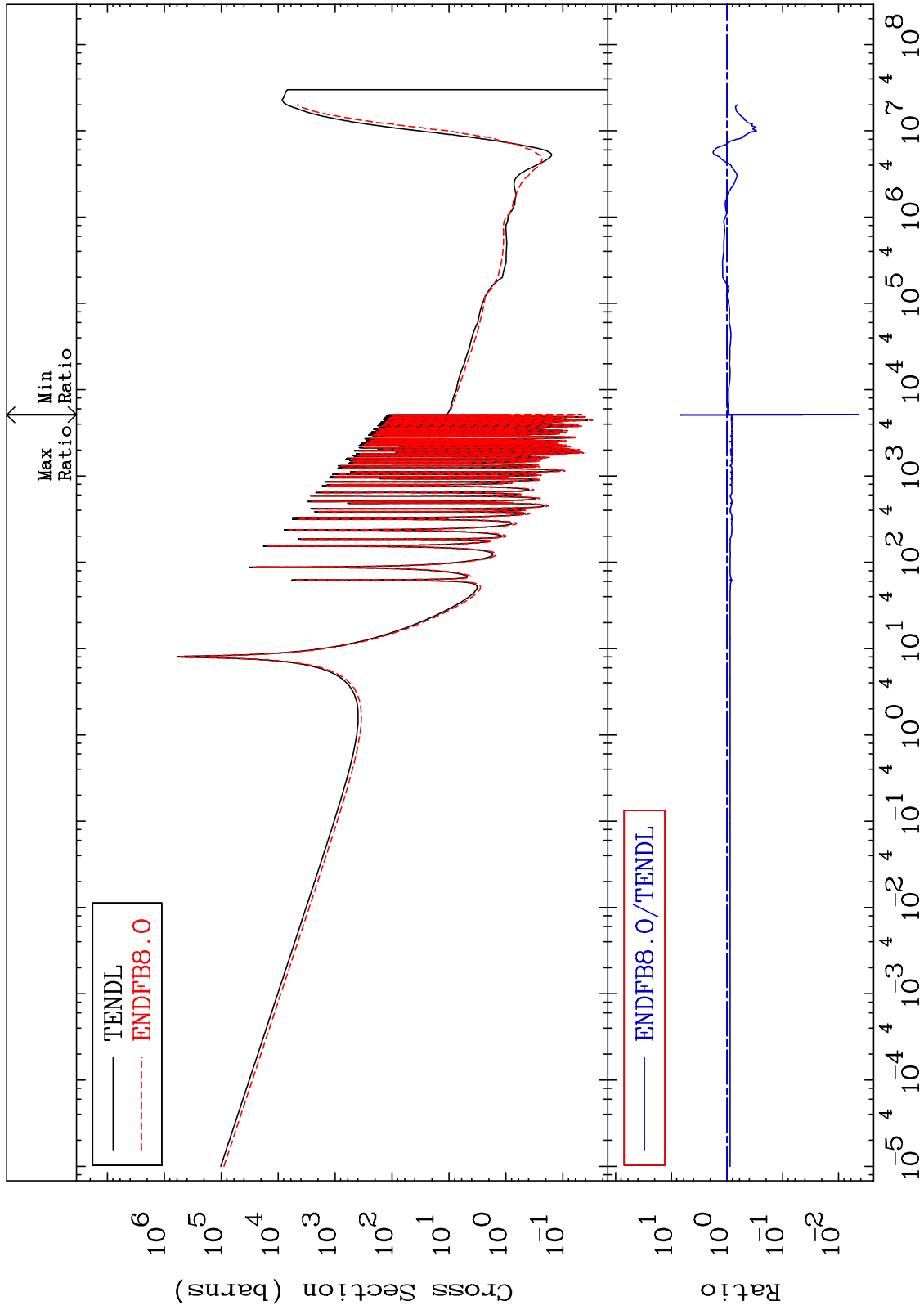
62-Sm-152  
-32.10 To 9999. %



MAT 6249

Dpa disappearance (mt102 -120)  
Cross Section

62-Sm-152  
-99.56 To 598.7 %



57

Incident Energy (eV)

62-Sm-152