

Program Complot  
(Version 2018-1)

by

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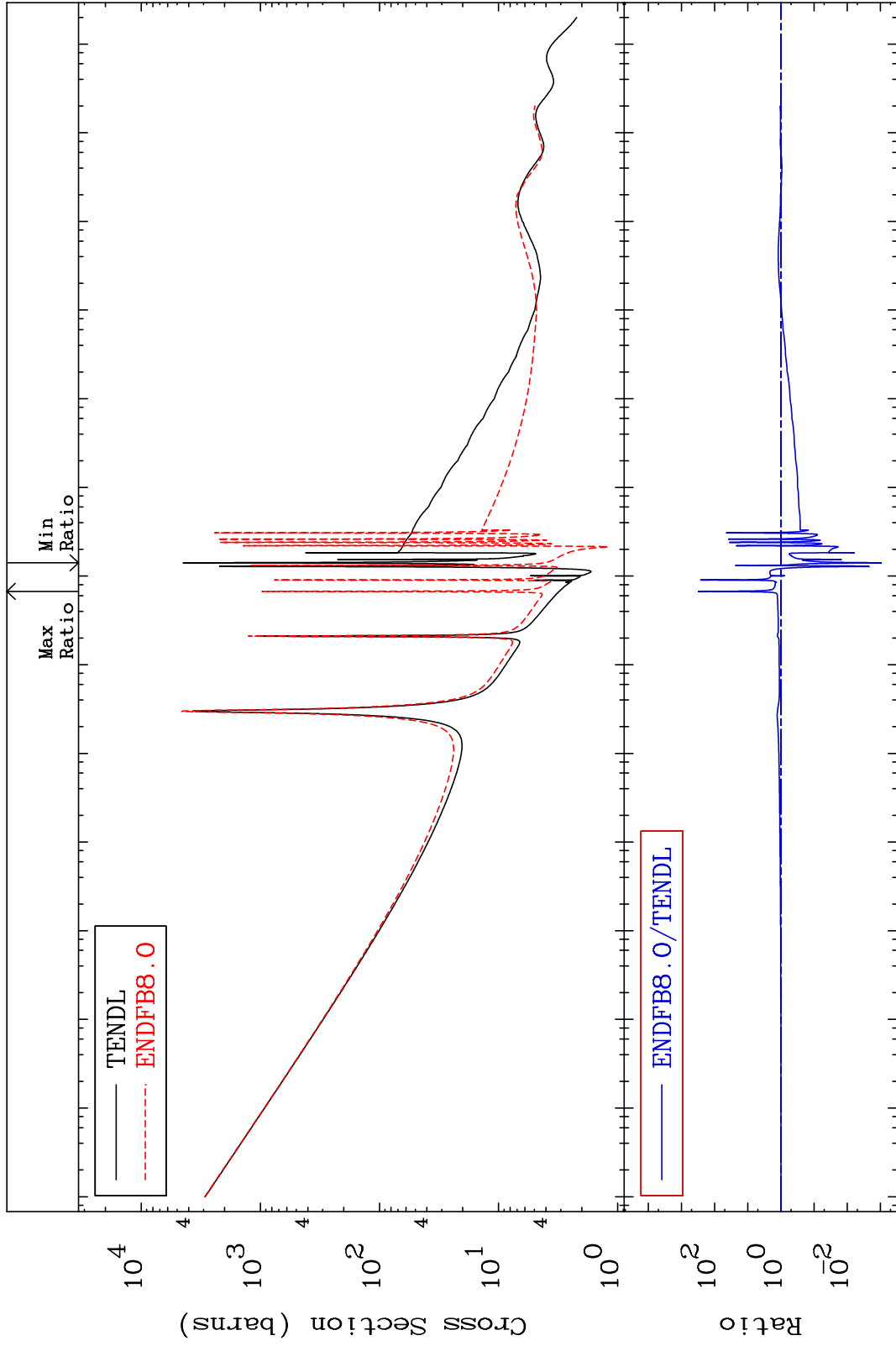
Press Mouse Button to Start

MAT 5725

57-La-138

-99.91 To 9999. %

Total  
Cross Section



Incident Energy (eV)

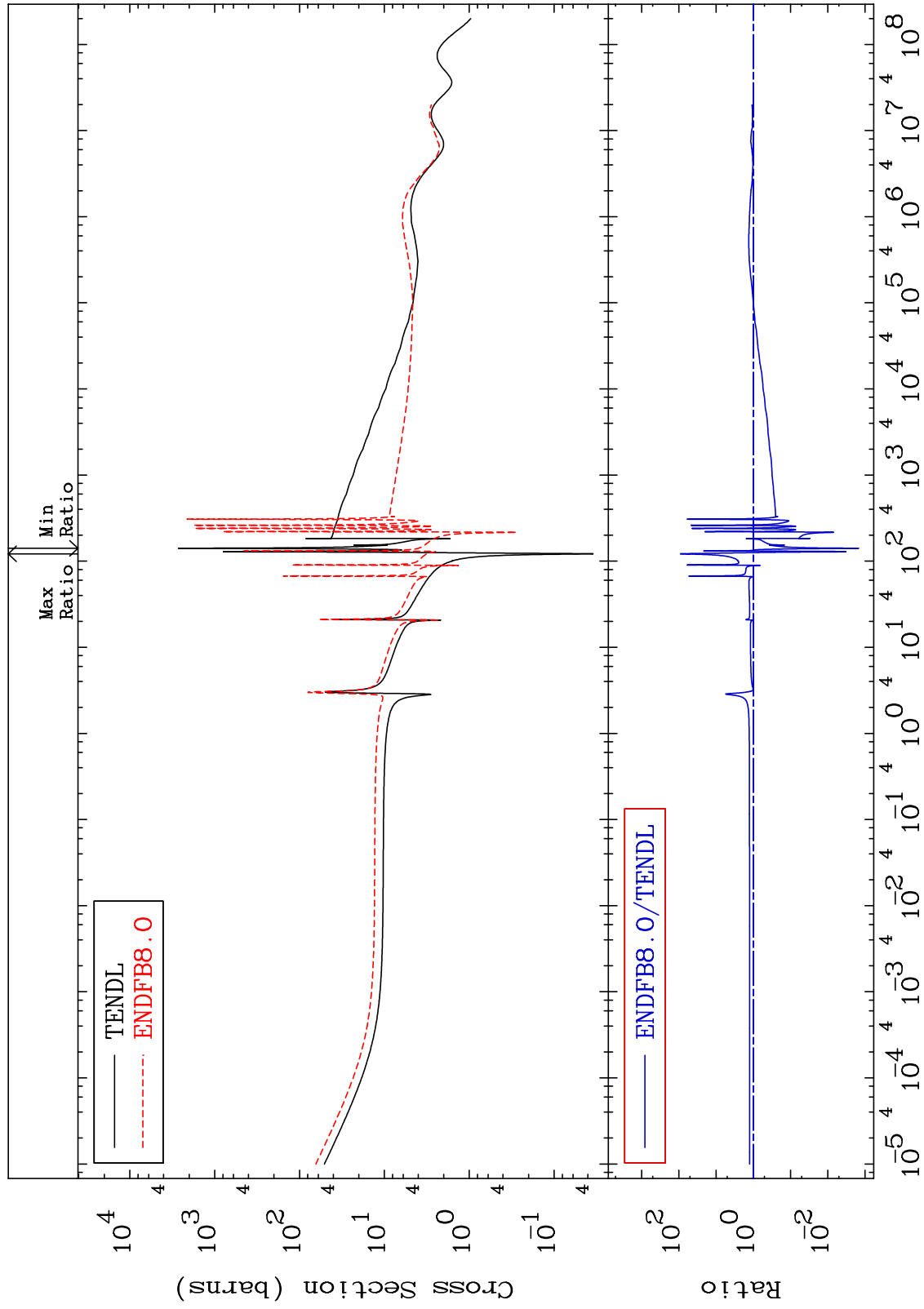
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

57-La-138

MAT 5725

Elastic  
Cross Section

57-La-138  
-99.85 To 8943. %



2

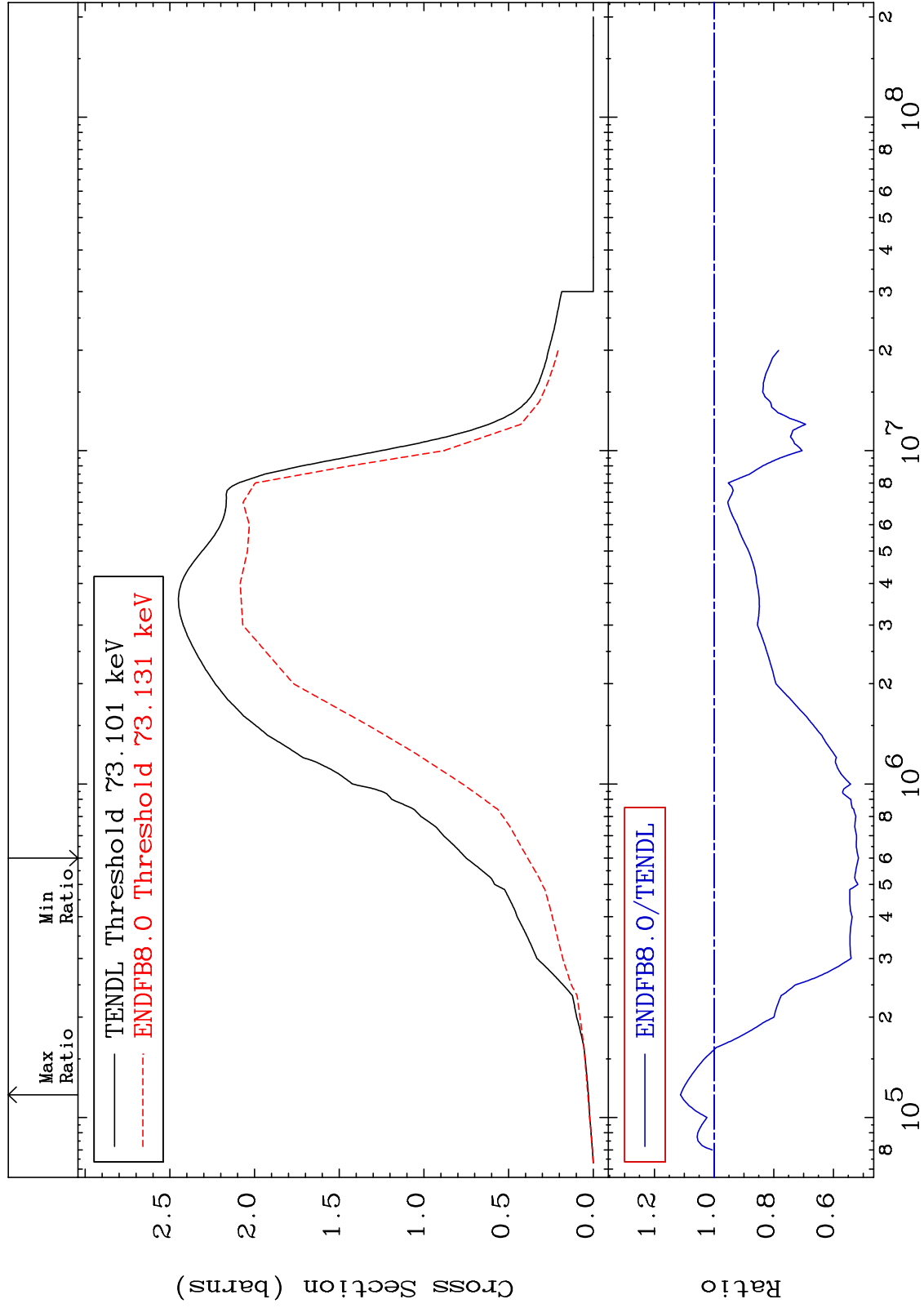
Incident Energy (eV)

57-La-138

MAT 5725

Inelastic  
Cross Section

57-La-138  
-48.43 To 11.27 %

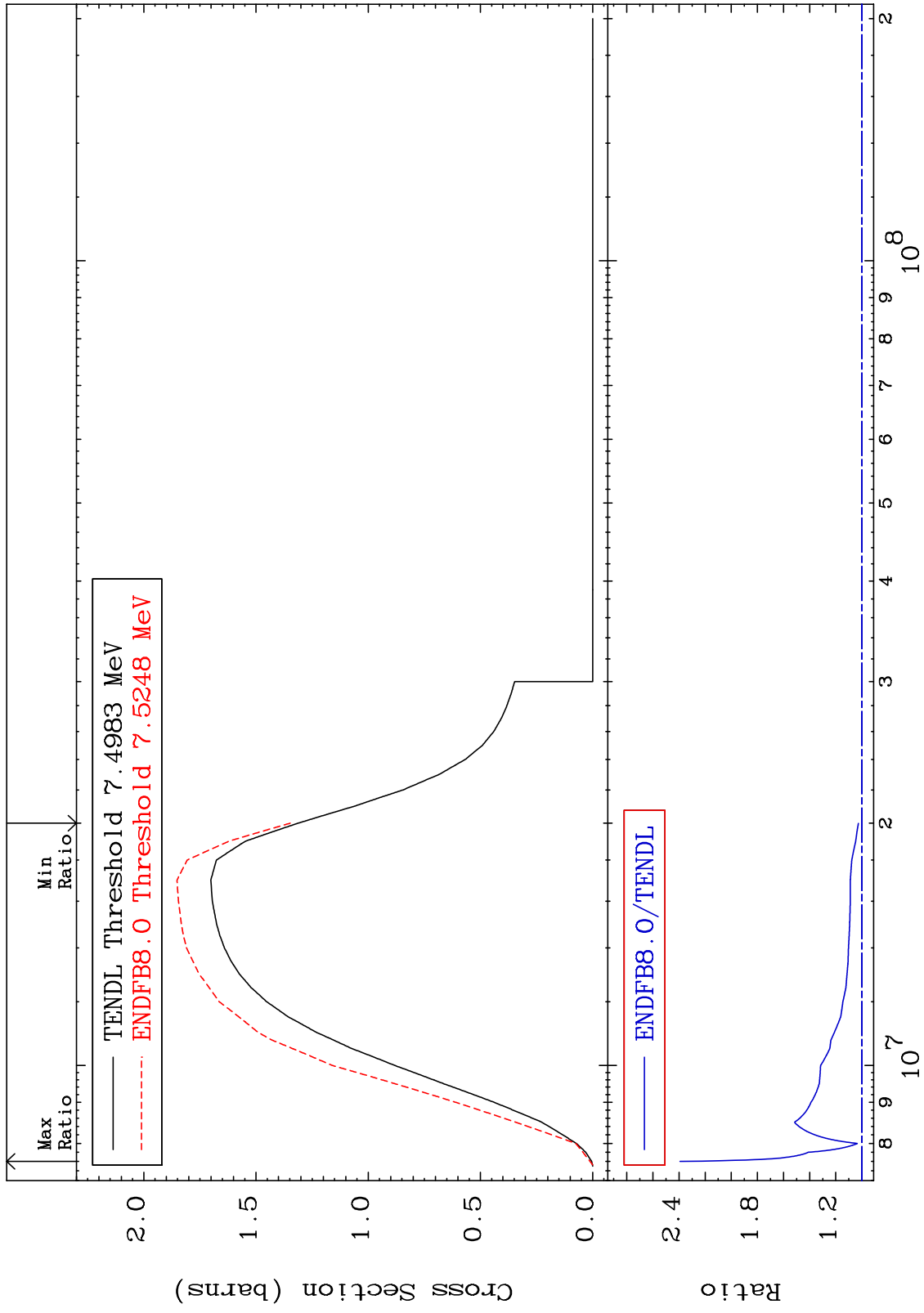


3

Incident Energy (eV)

57-La-138

MAT 5725 (n,2n) Cross Section 57-La-138 To 139.2 %  
 2.676



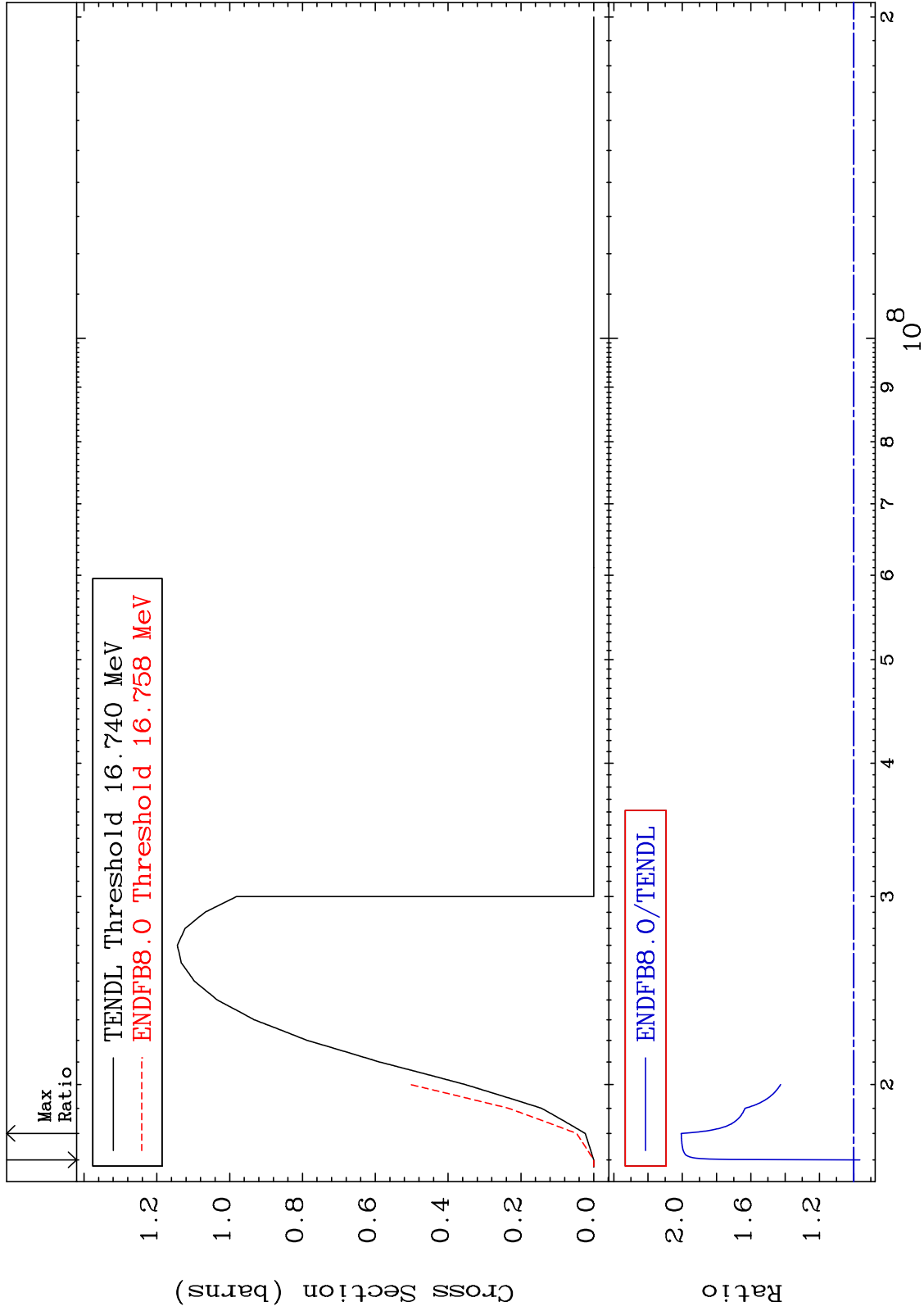
MAT 5725

(n,3n)

57-La-138

Cross Section

-3.660 To 100.6 %



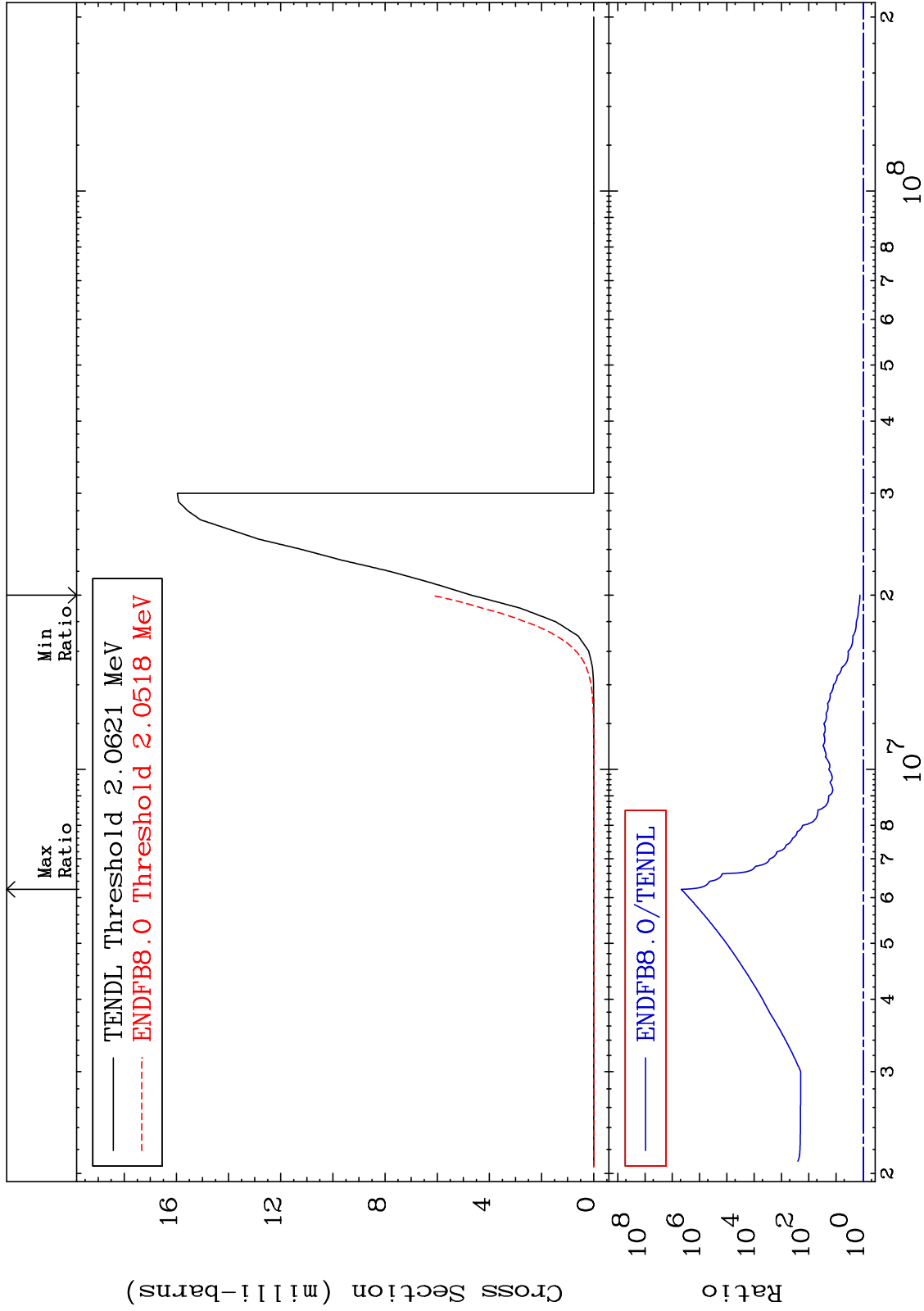
MAT 5725

(n, n')  $\alpha$

57-La-138

Cross Section

32.76 To 9999. %



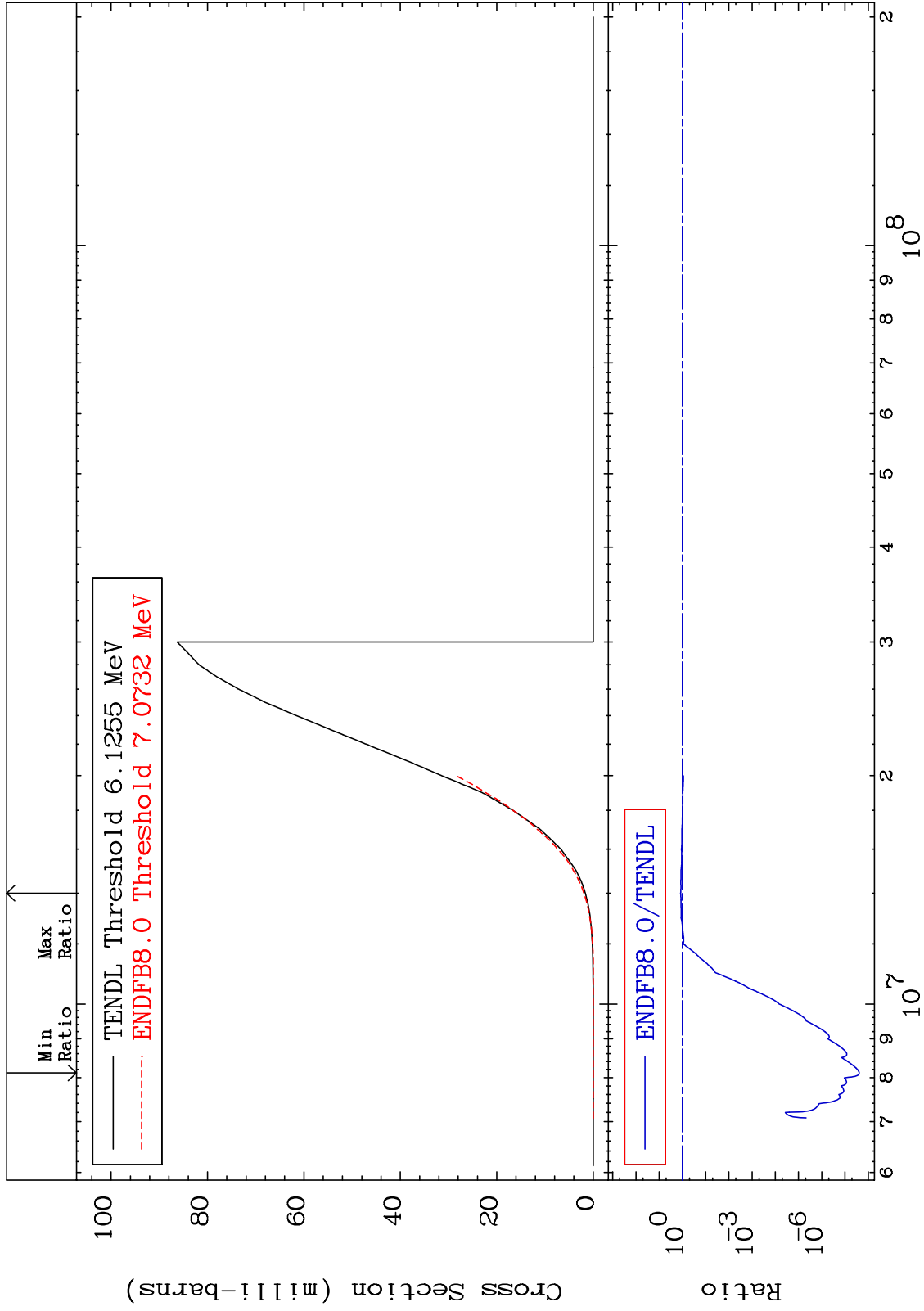
MAT 5725

(n,n') p

57-La-138

Cross Section

-100.0 To 19.55 %



7

Incident Energy (eV)

57-La-138

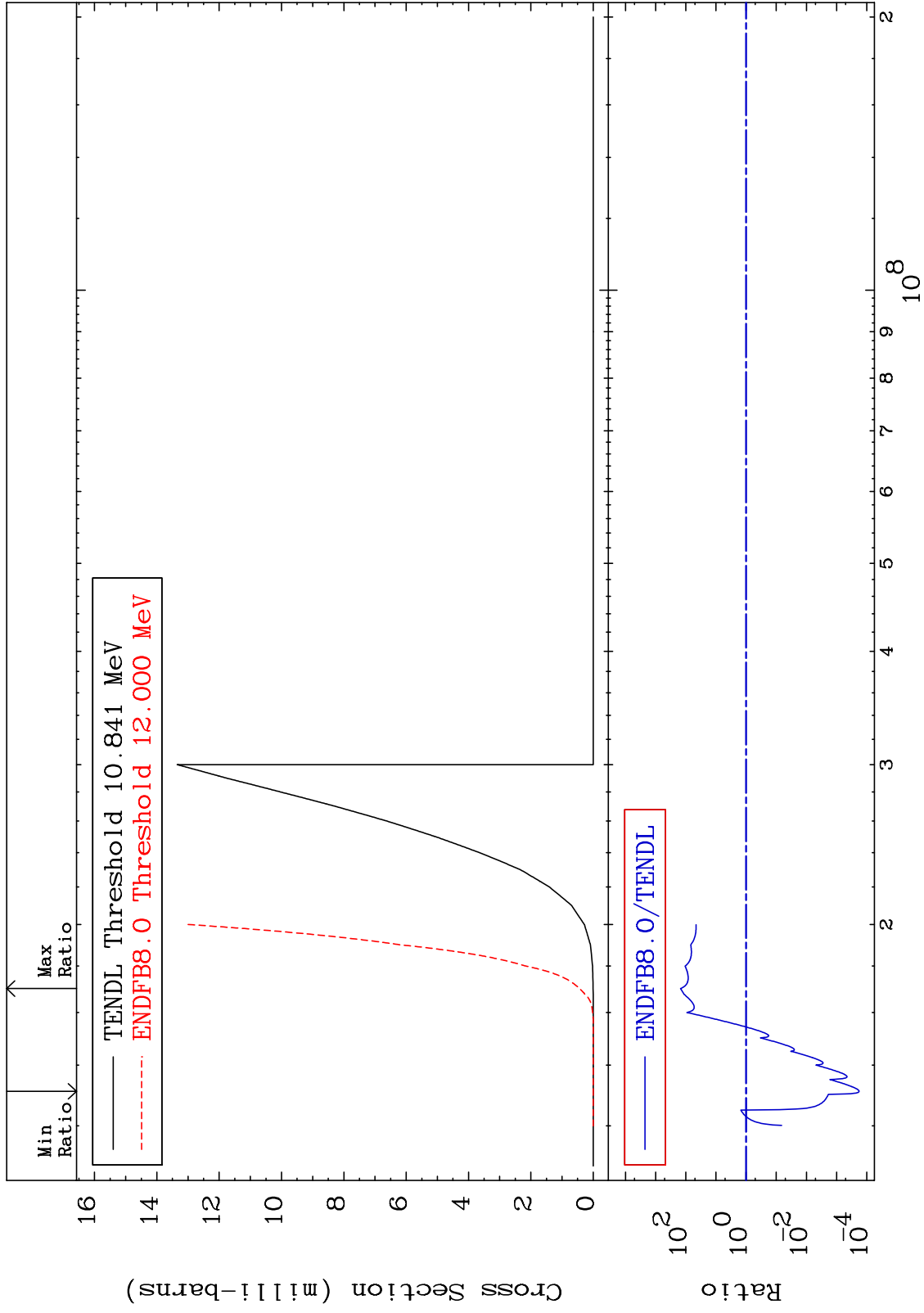
MAT 5725

(n,n') d

57-La-138

Cross Section

-99.98 To 9999. %



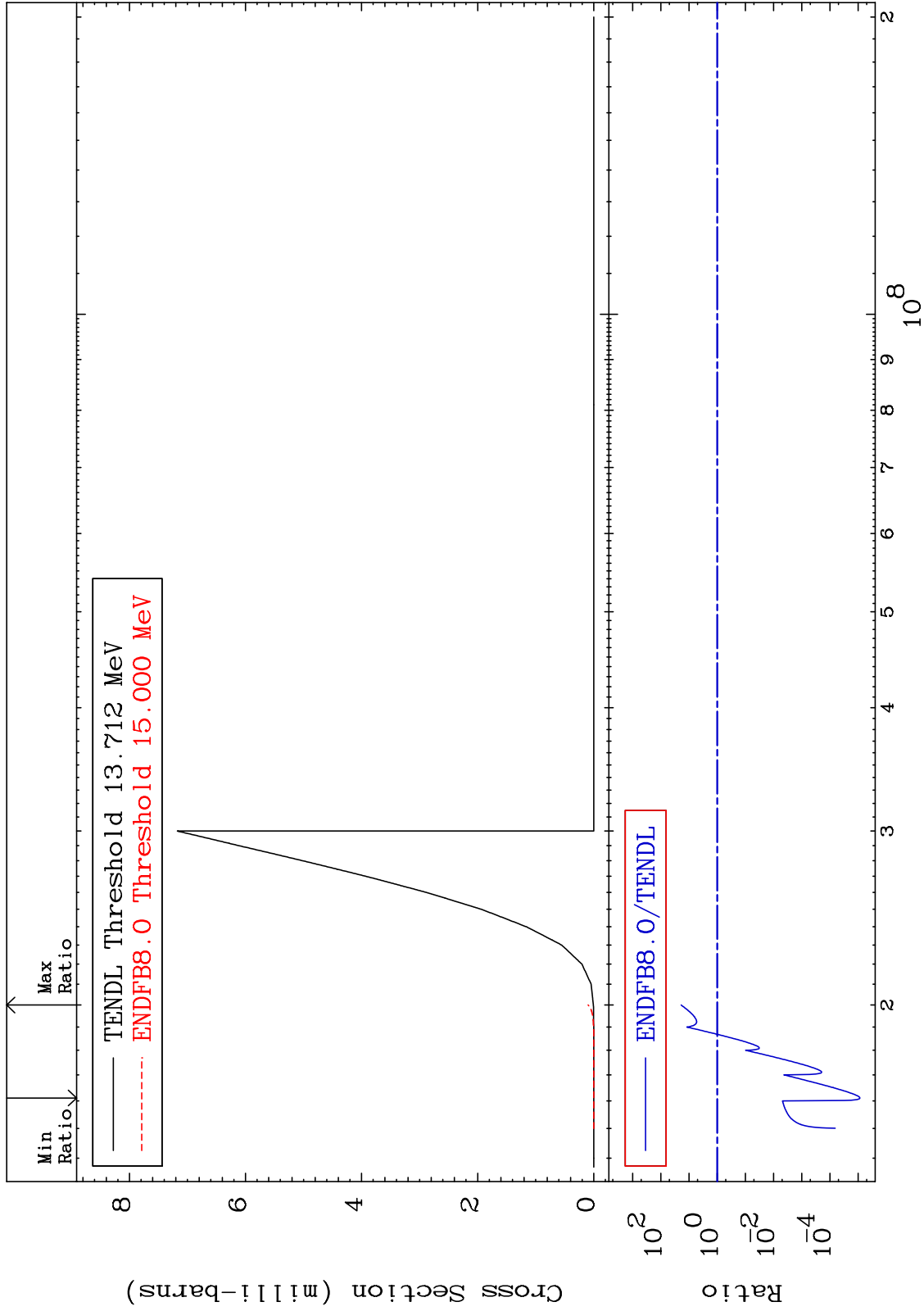
MAT 5725

(n,n') t

57-La-138

Cross Section

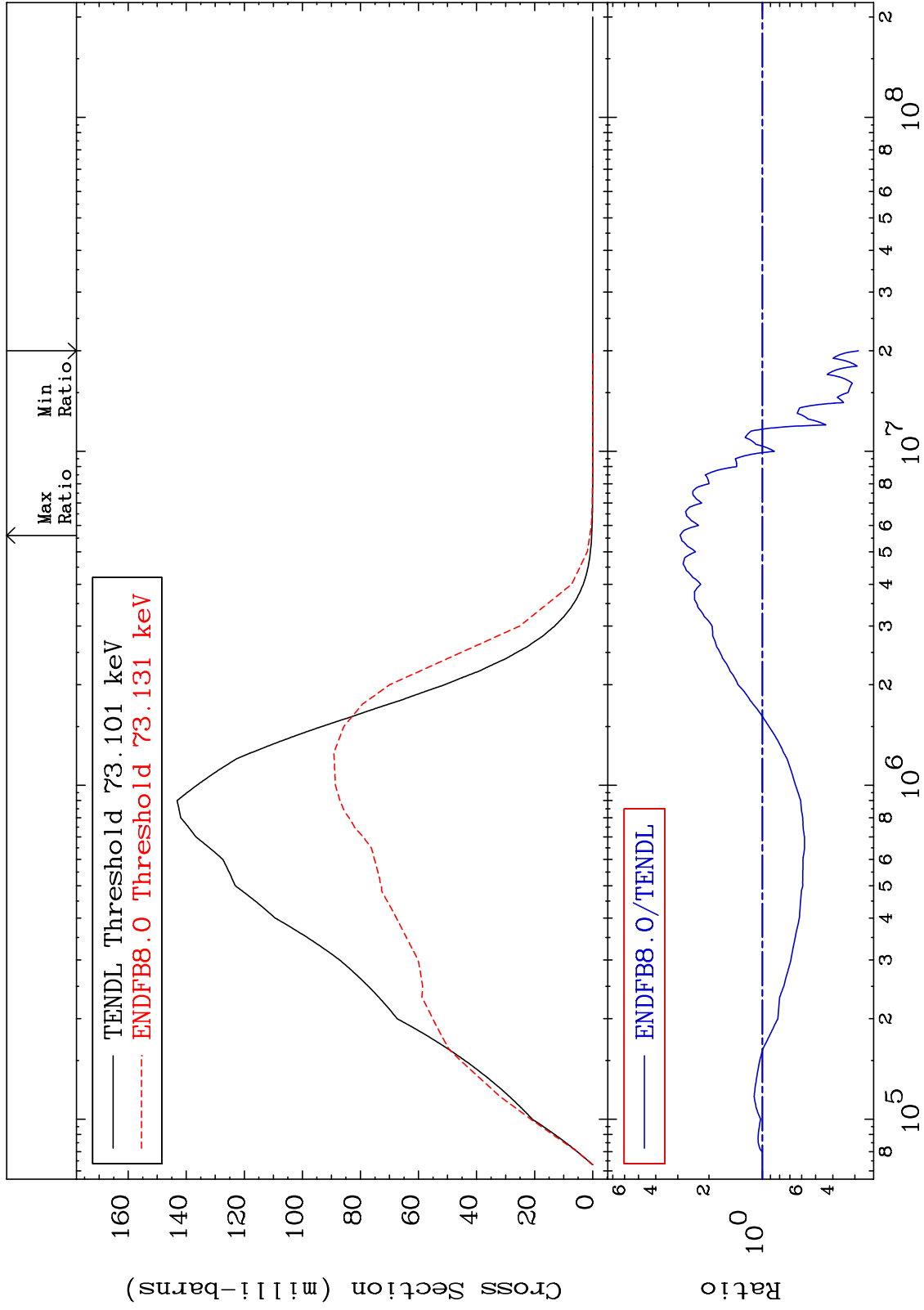
-100.0 To 1787. %



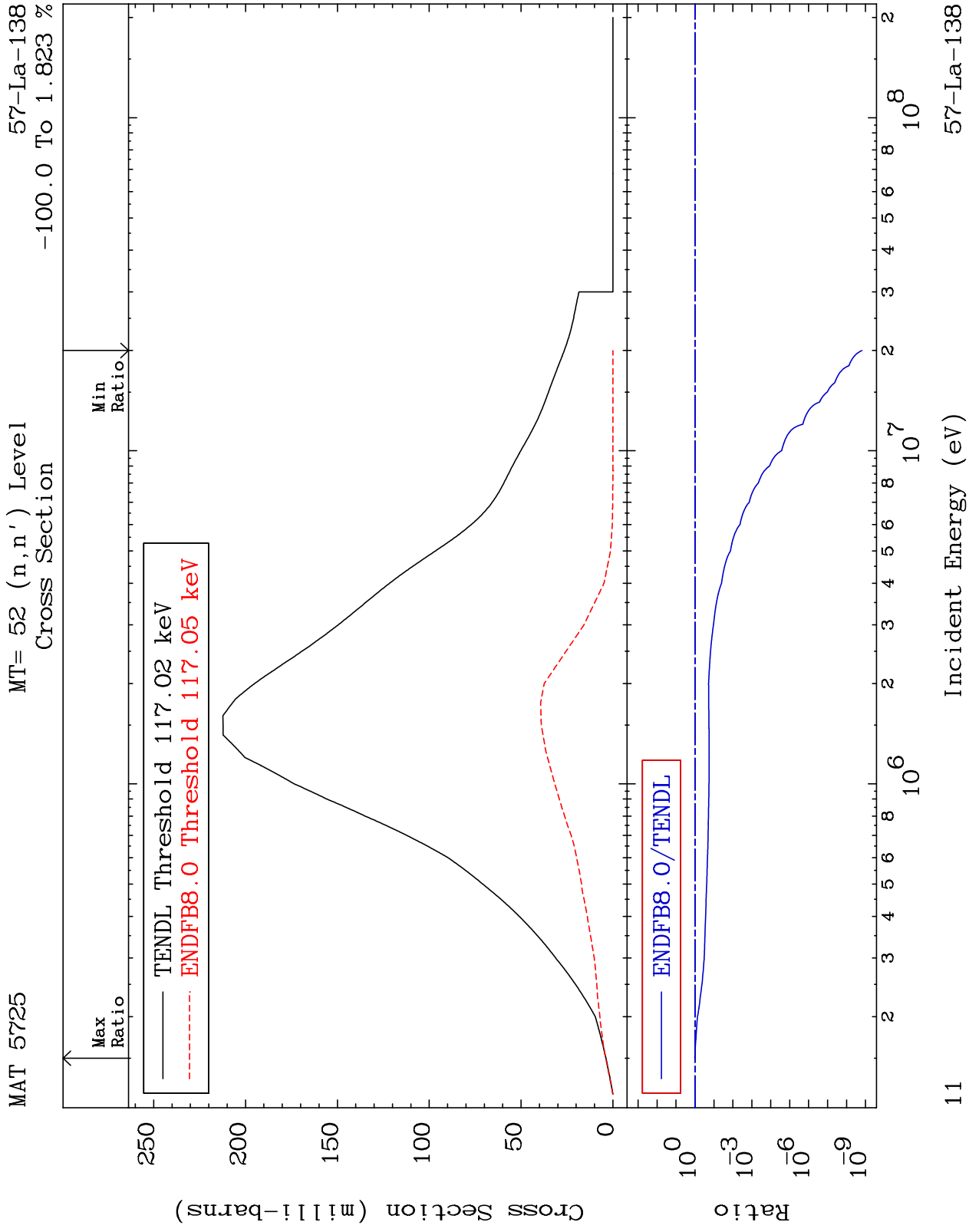
MAT 5725

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

57-La-138  
-71.32 To 191.7 %



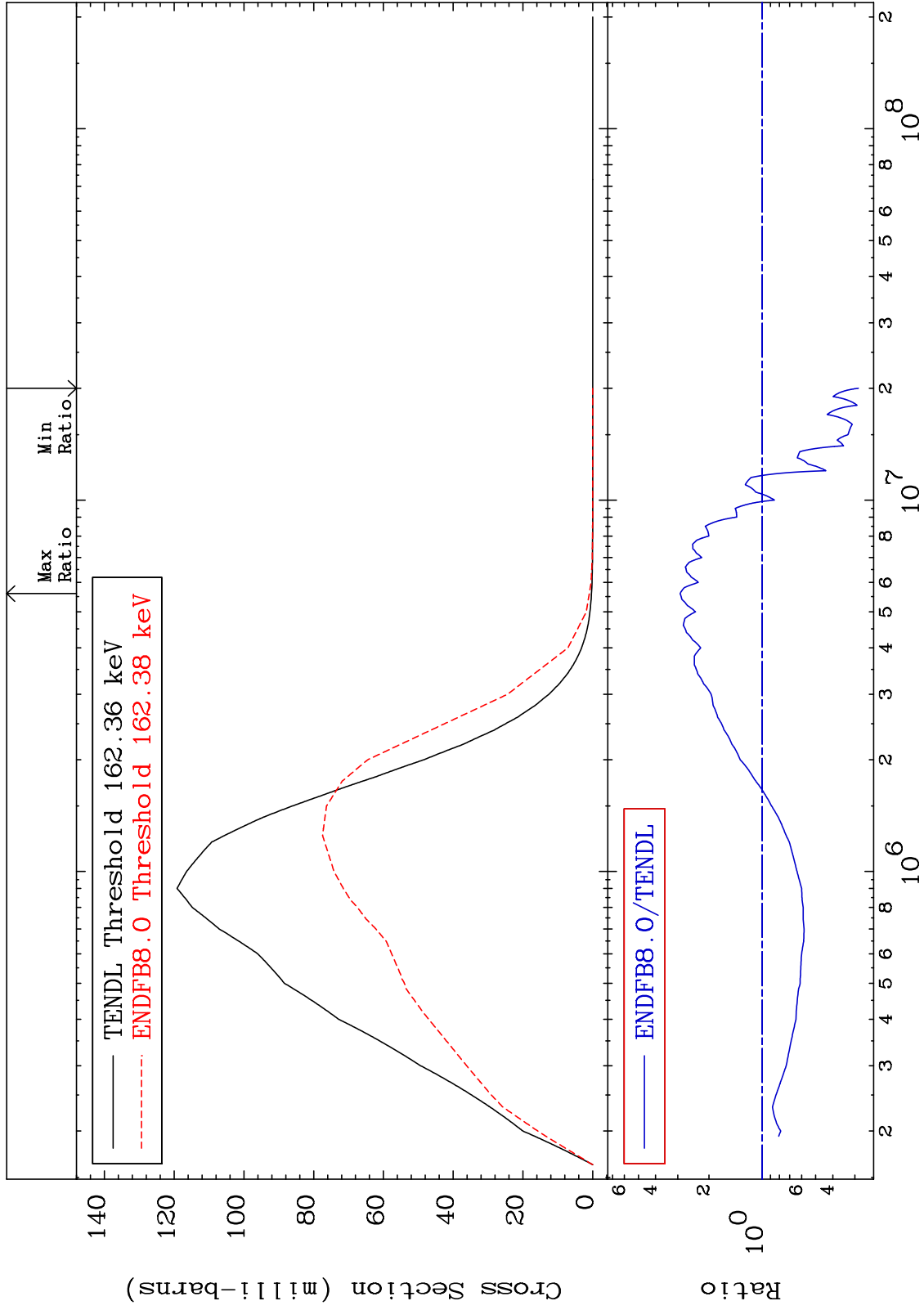
10 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 2 57-La-138



MAT 5725

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

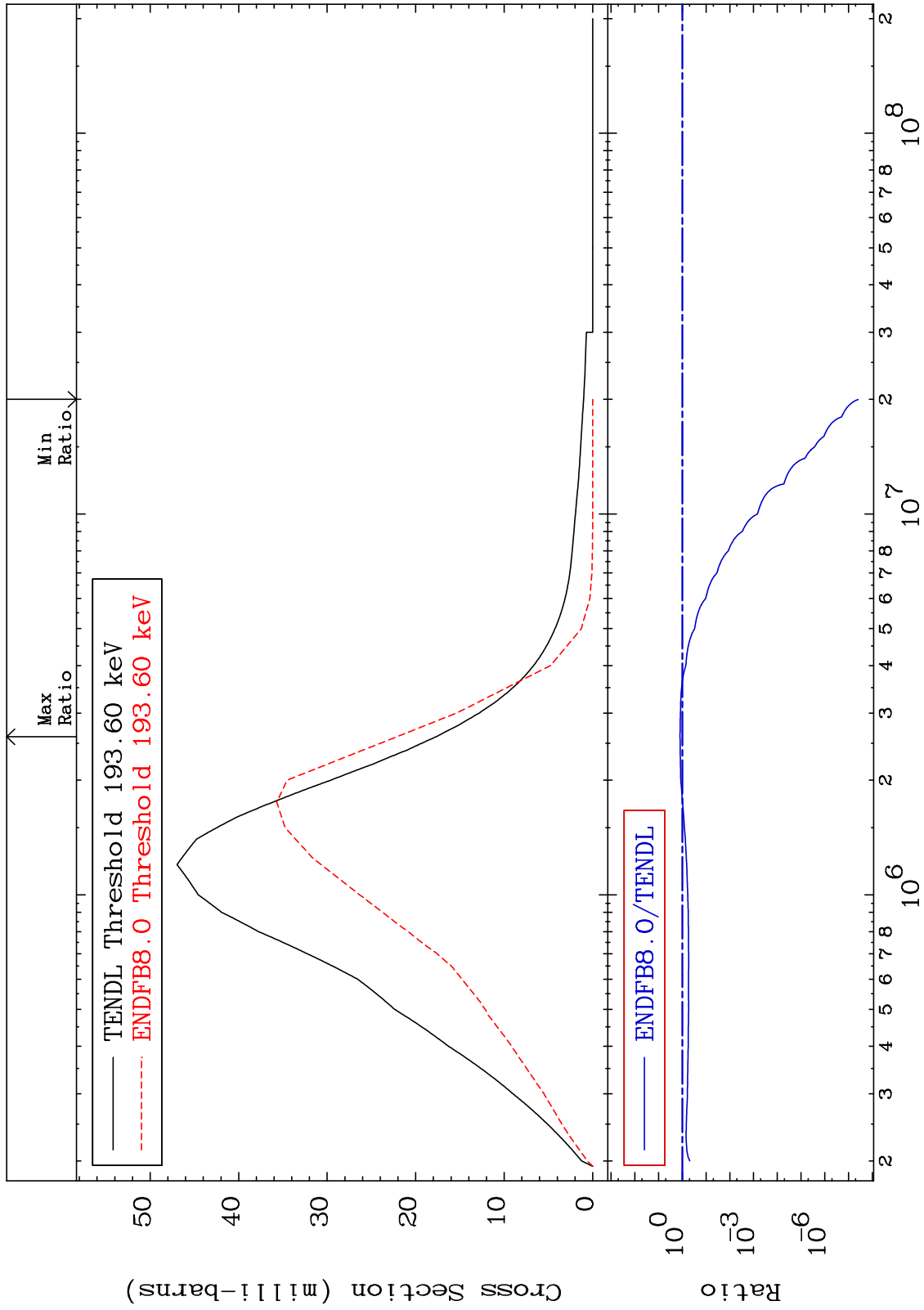
57-La-138  
-71.33 To 191.3 %

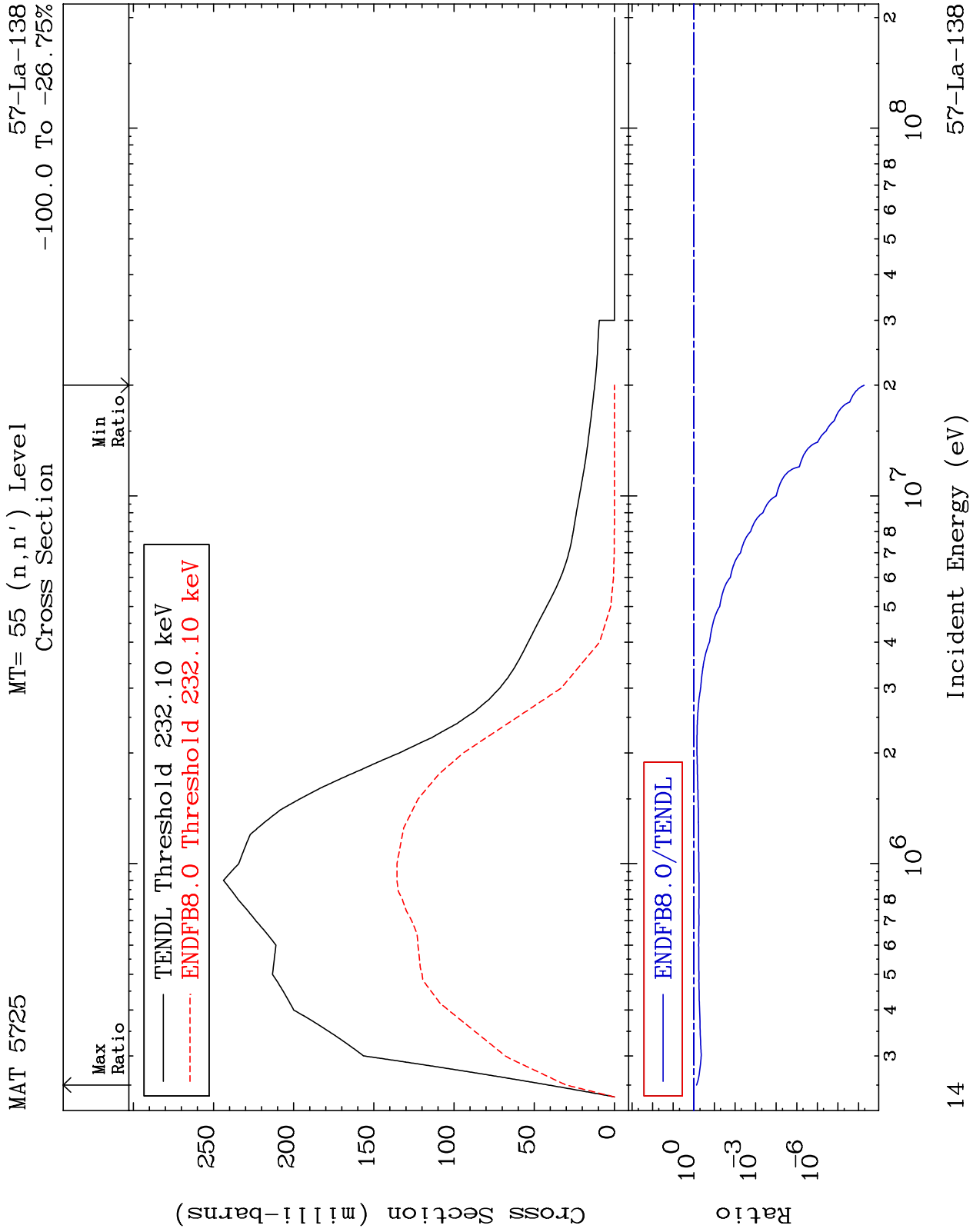


MAT 5725

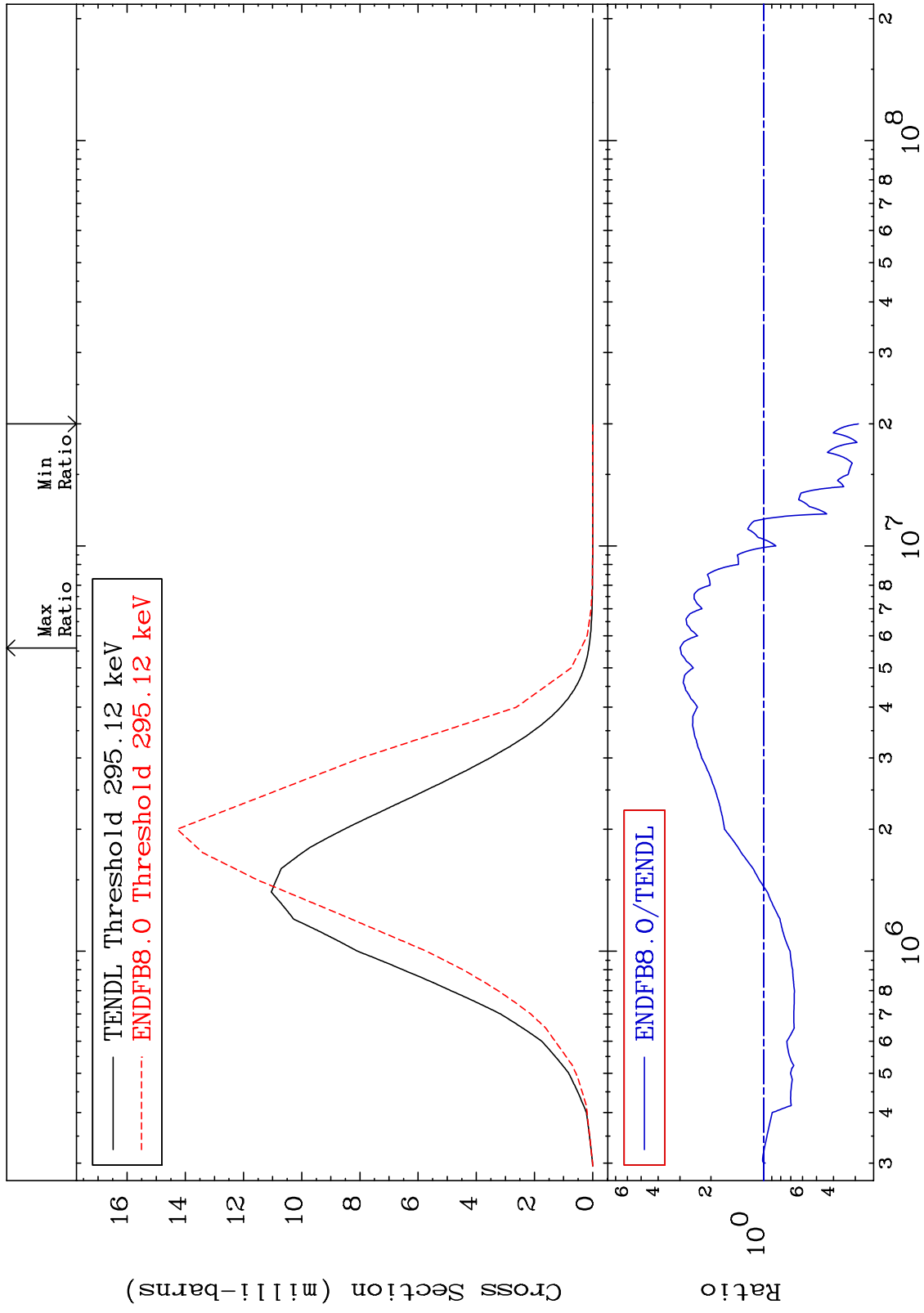
MT= 54 (n,n') Level  
Cross Section

57-La-138  
-100.0 To 25.16 %





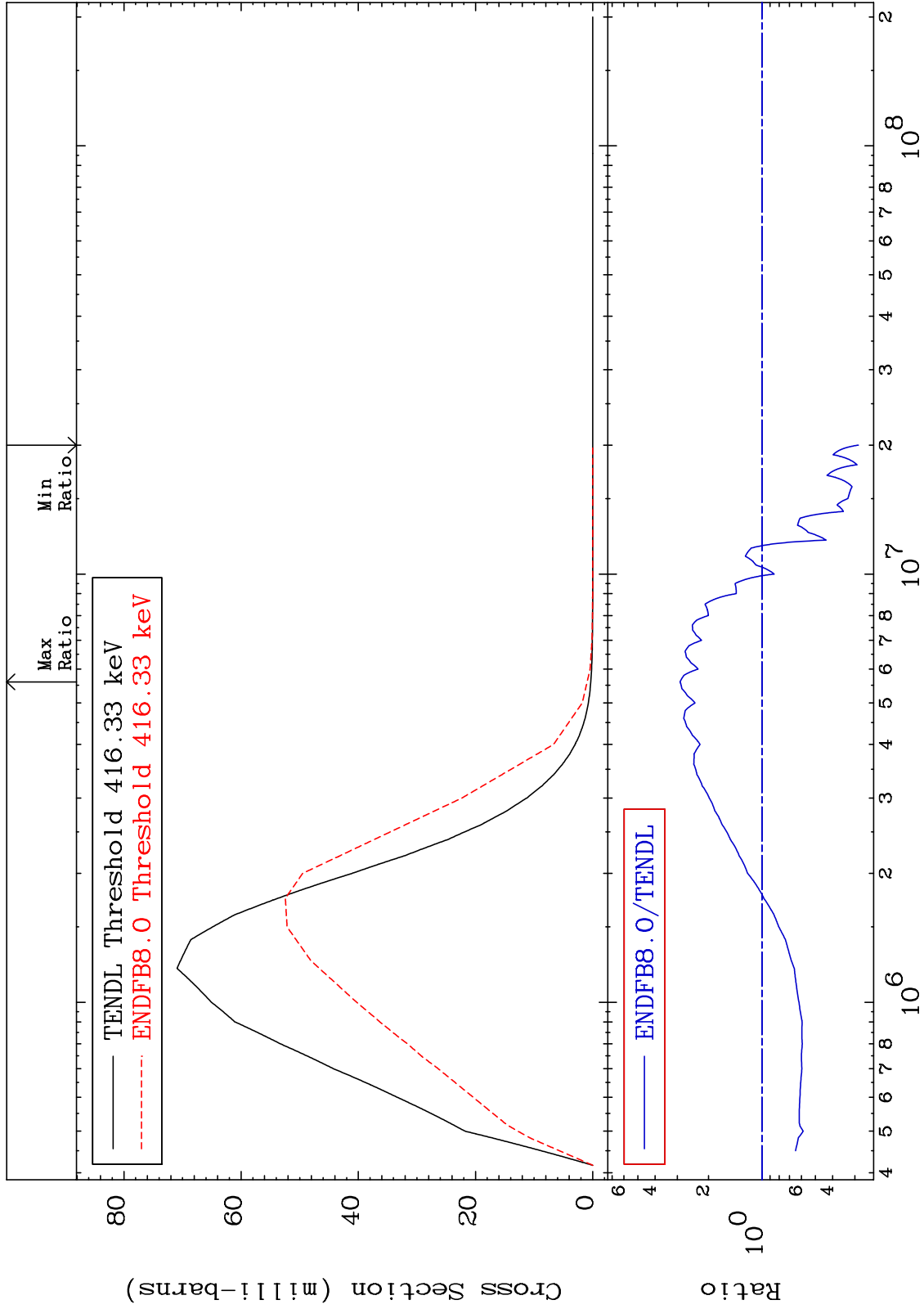
MAT 5725 MT= 56 (n,n') Level Cross Section -71.20 To 200.1 % 57-La-138



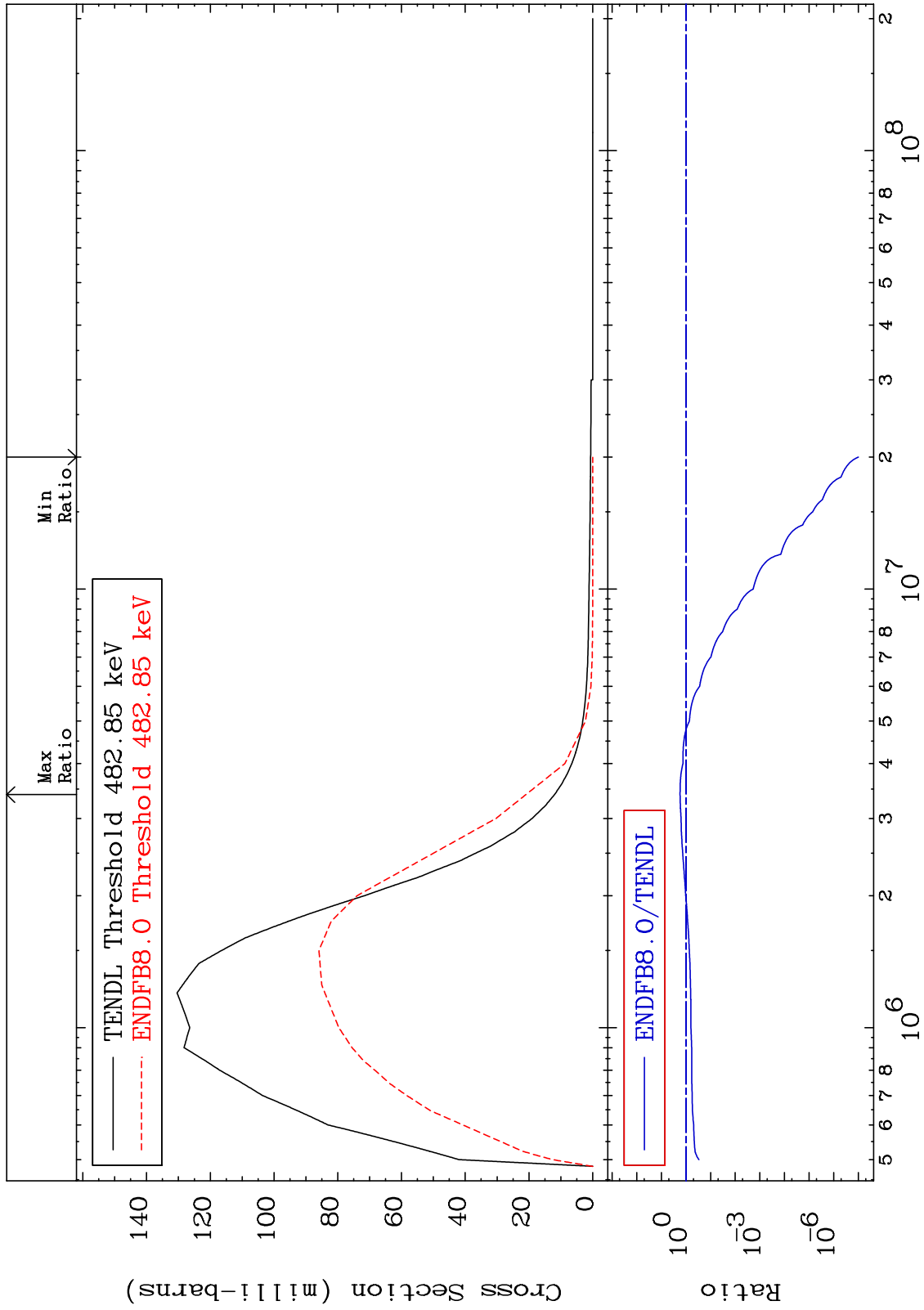
MAT 5725

MT= 57 (n,n') Level  
Cross Section

57-La-138  
-71.38 To 189.7 %



MAT 5725 MT= 58 (n,n') Level Cross Section 57-La-138  
 -100.0 To 75.14 %



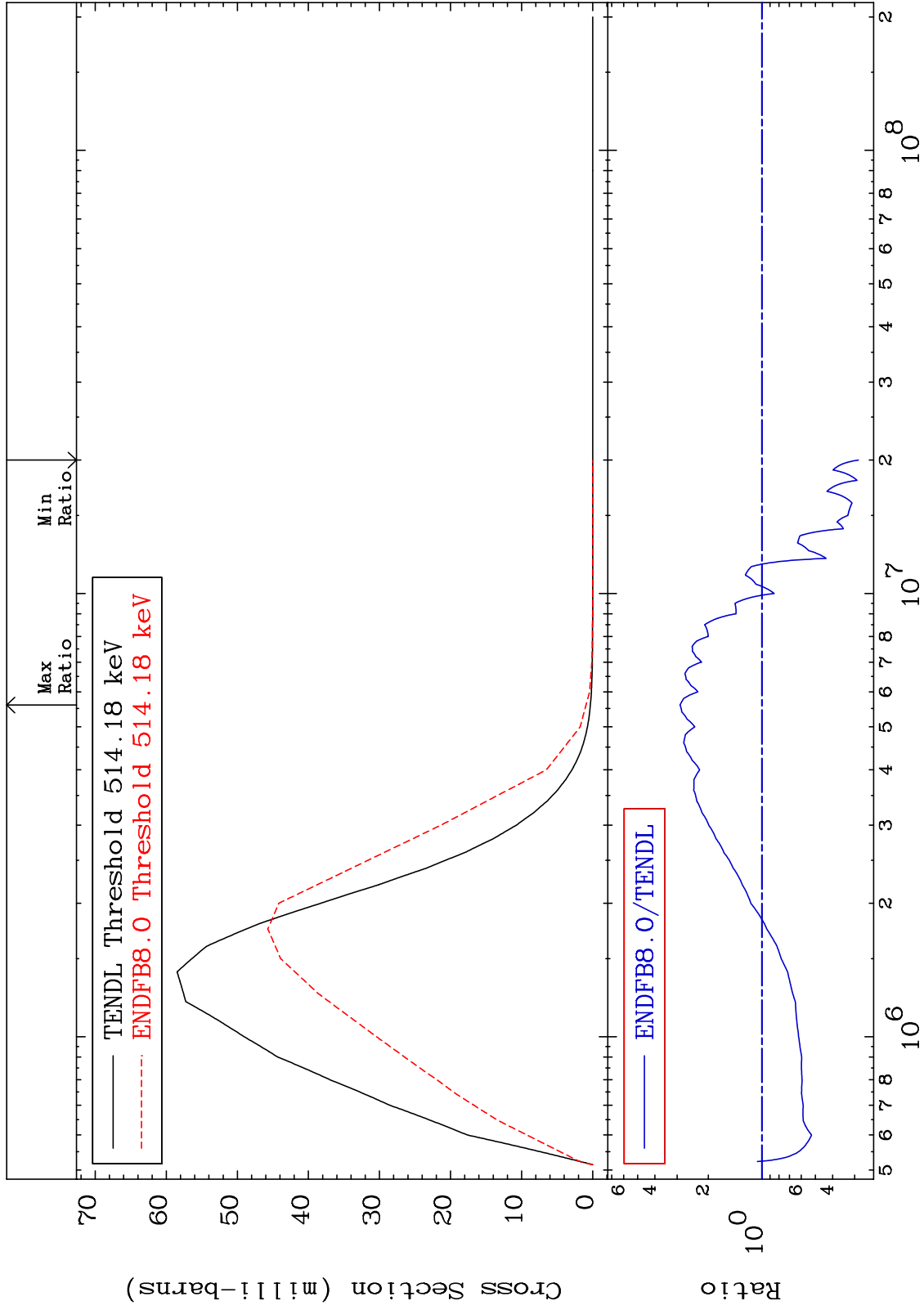
MAT 5725

MT= 59 (n,n') Level

57-La-138

-71.40 To 188.9 %

Cross Section



18

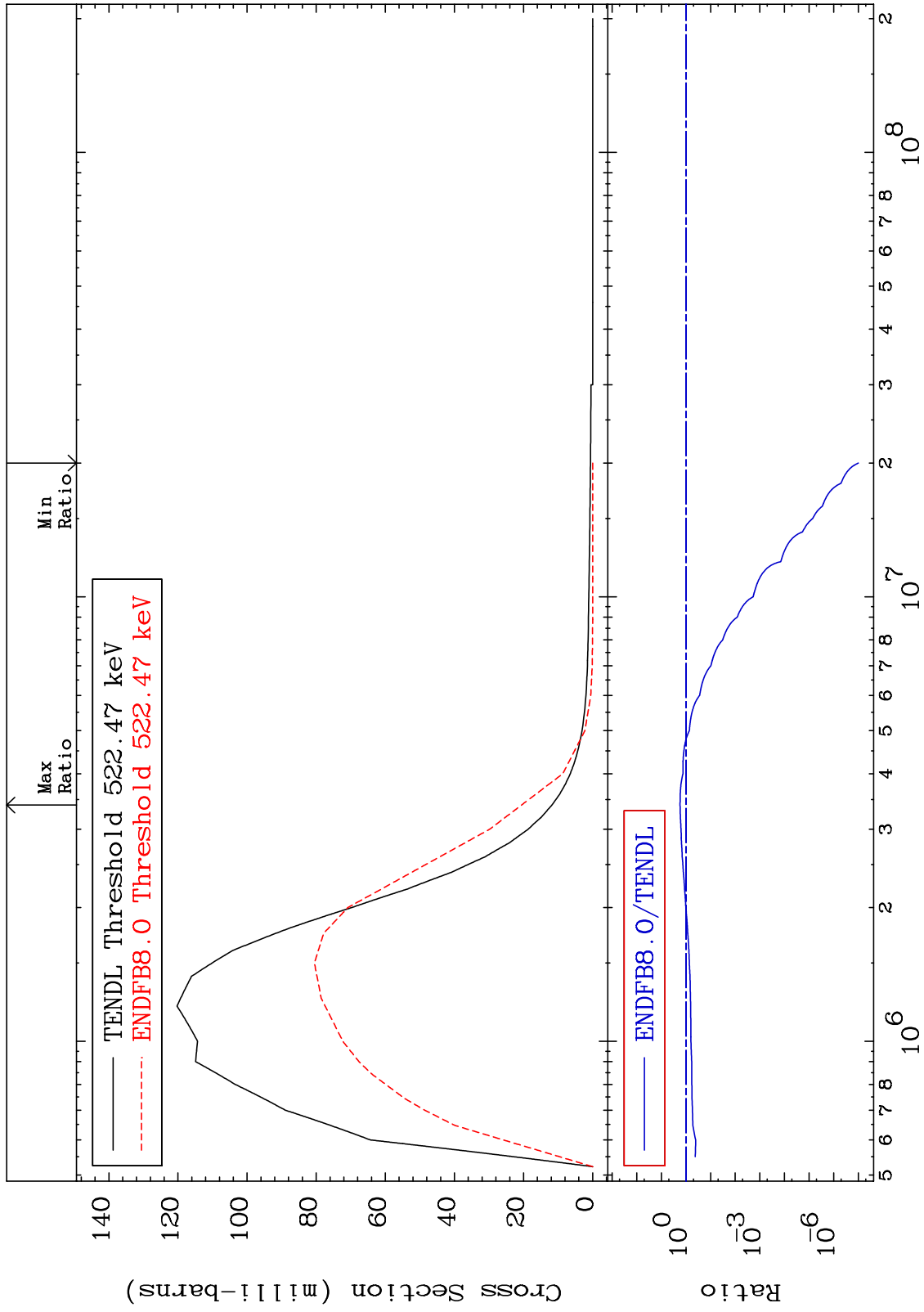
57-La-138

57-La-138

MAT 5725

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

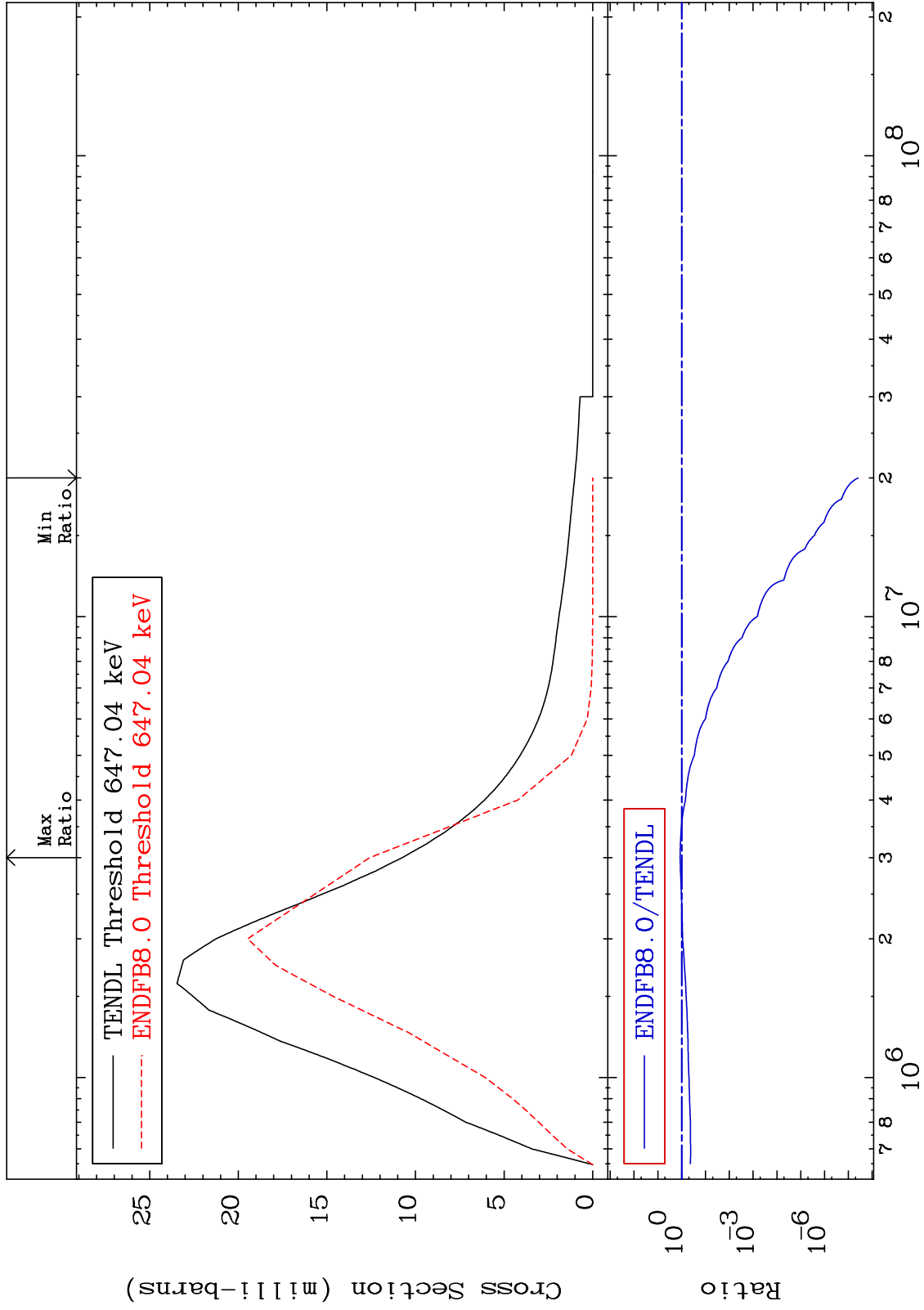
57-La-138  
-100.0 To 74.74 %



MAT 5725

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

57-La-138  
-100.0 To 17.10 %



20

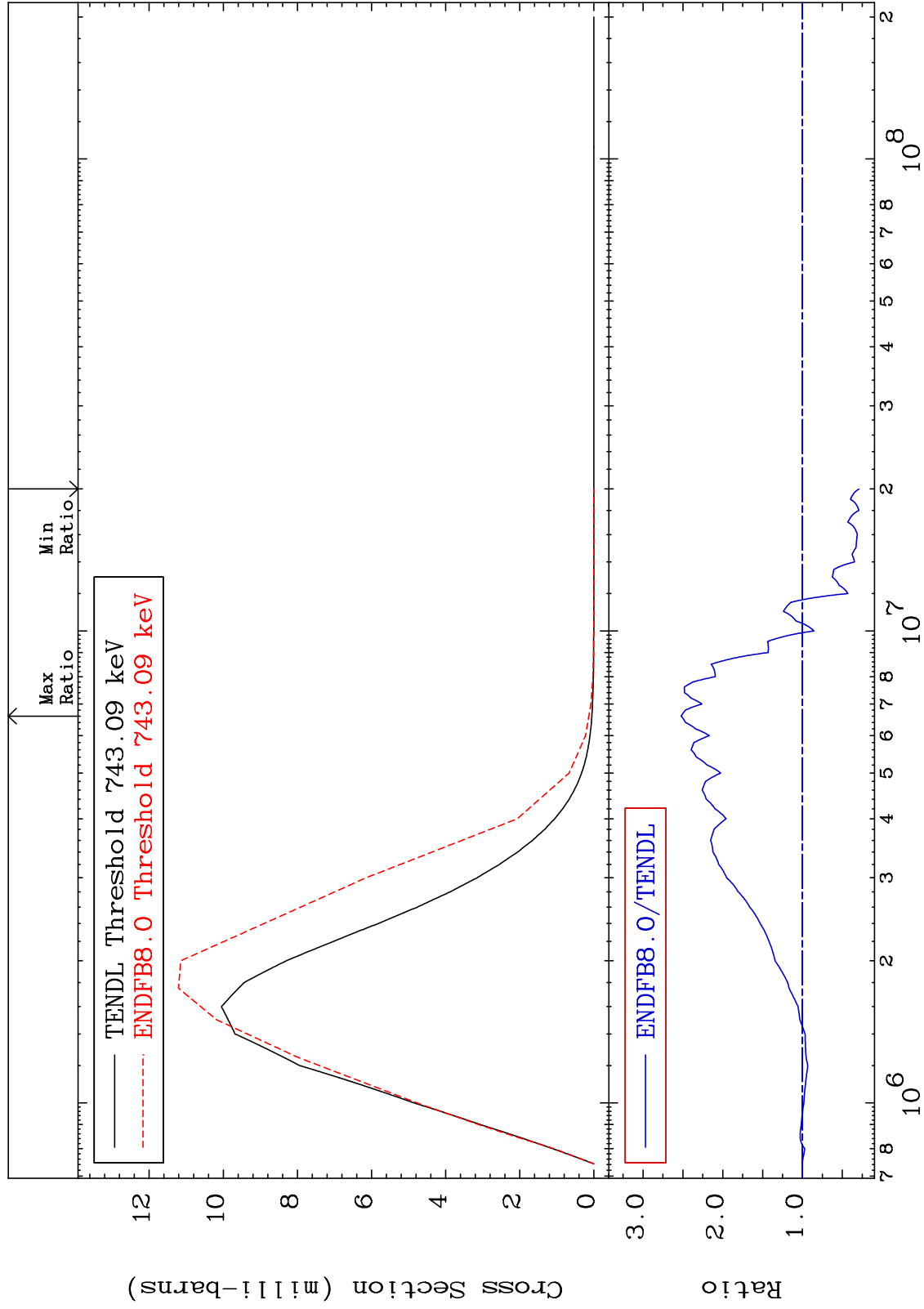
Incident Energy (eV)

57-La-138

MAT 5725

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

57-La-138  
-71.28 To 152.3 %



21

Incident Energy (eV)

57-La-138

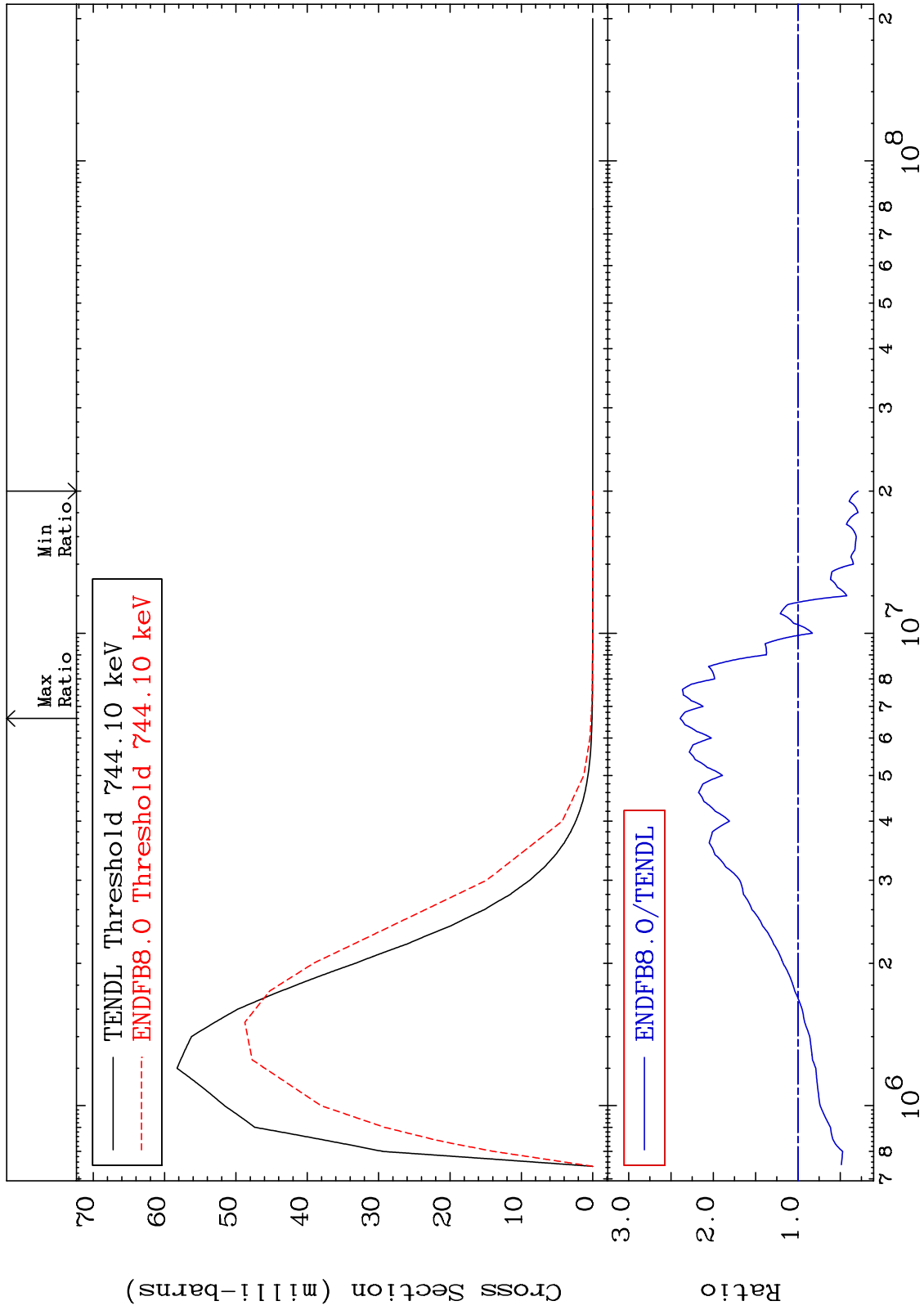
MAT 5725

MT= 63 (n,n') Level

57-La-138

-71.51 To 139.3 %

Cross Section



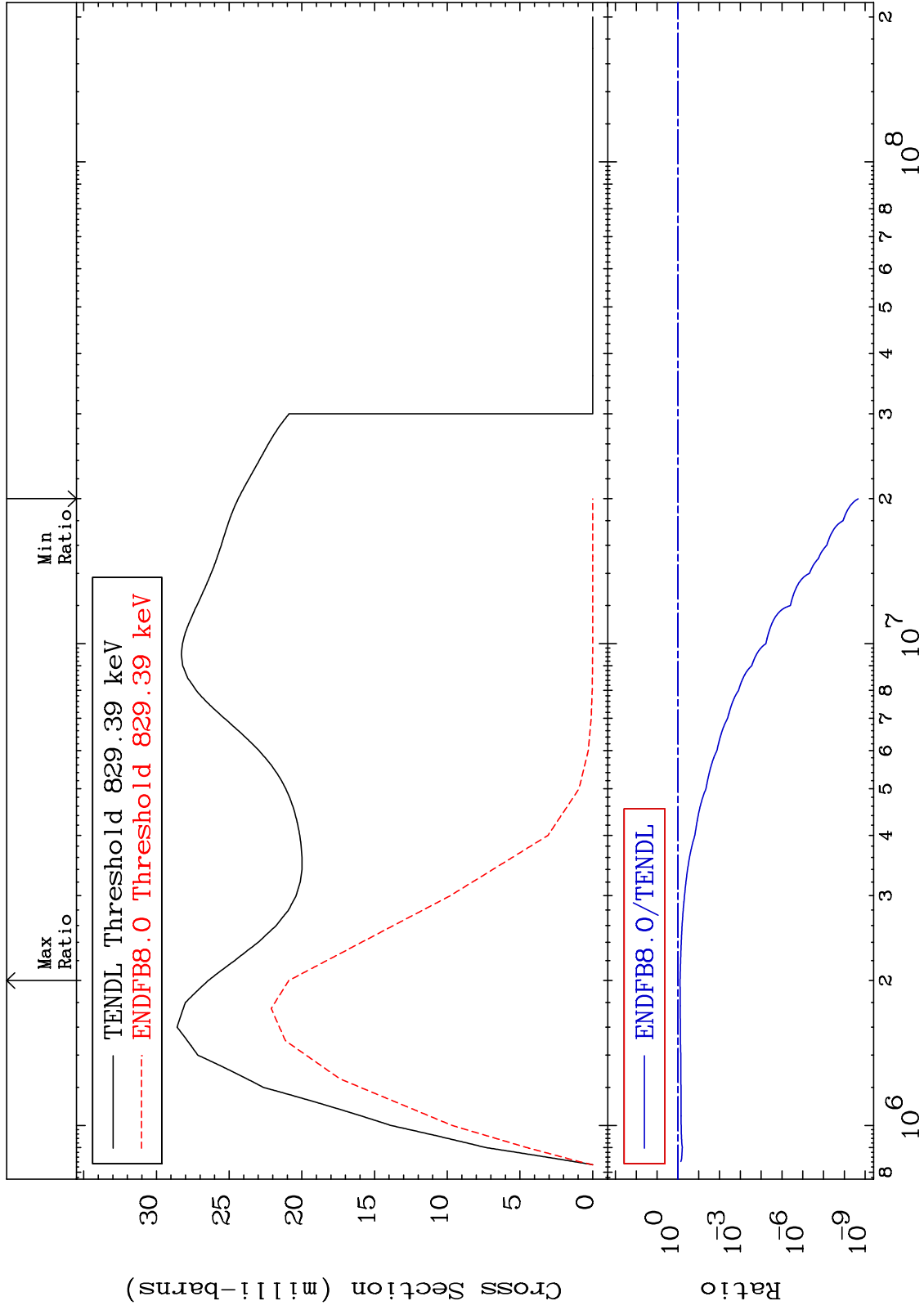
22

57-La-138

MAT 5725

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

57-La-138  
-100.0 To -20.94%



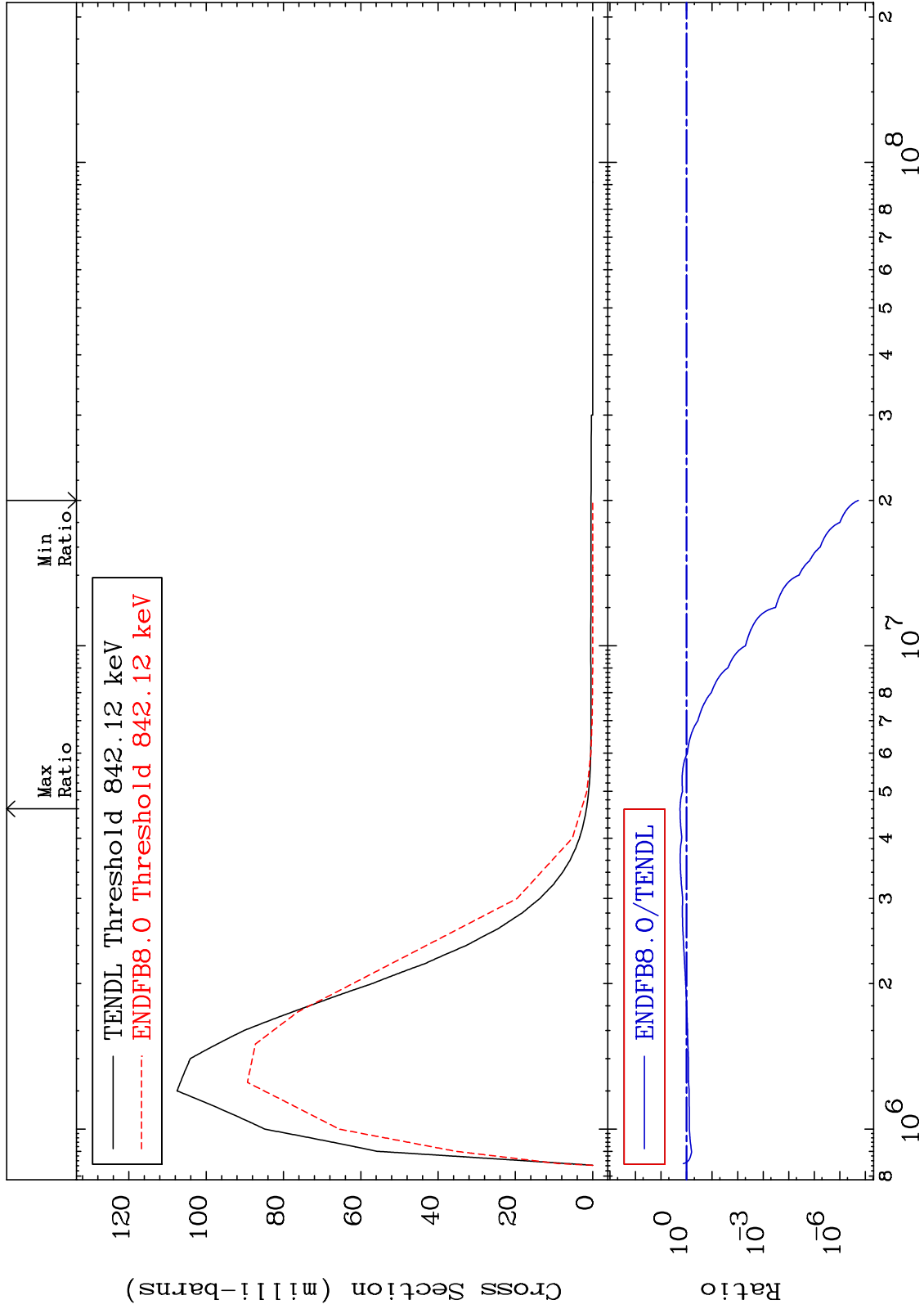
23

57-La-138

MAT 5725

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

57-La-138  
-100.0 To 80.60 %

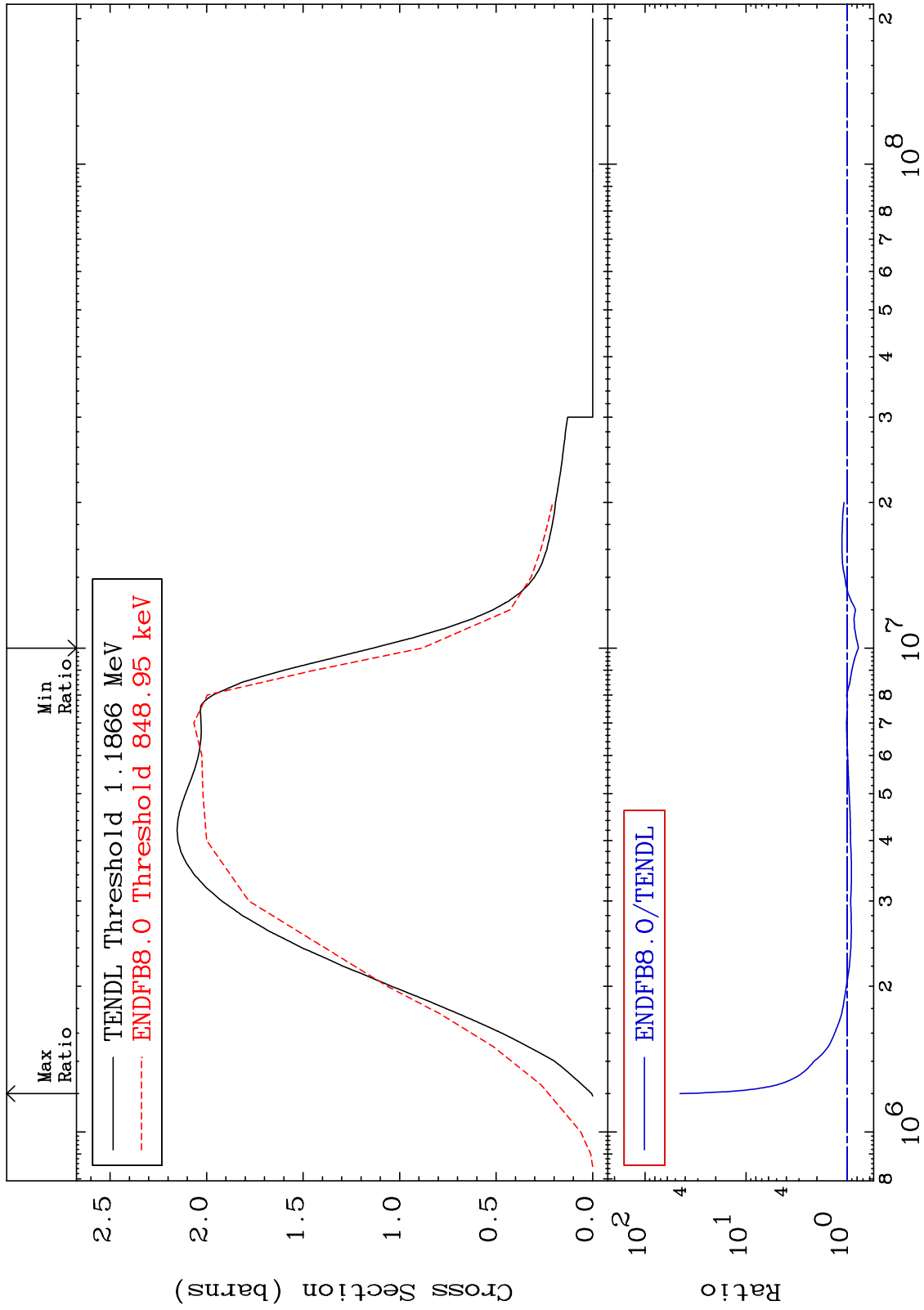


24

Incident Energy (eV)

57-La-138

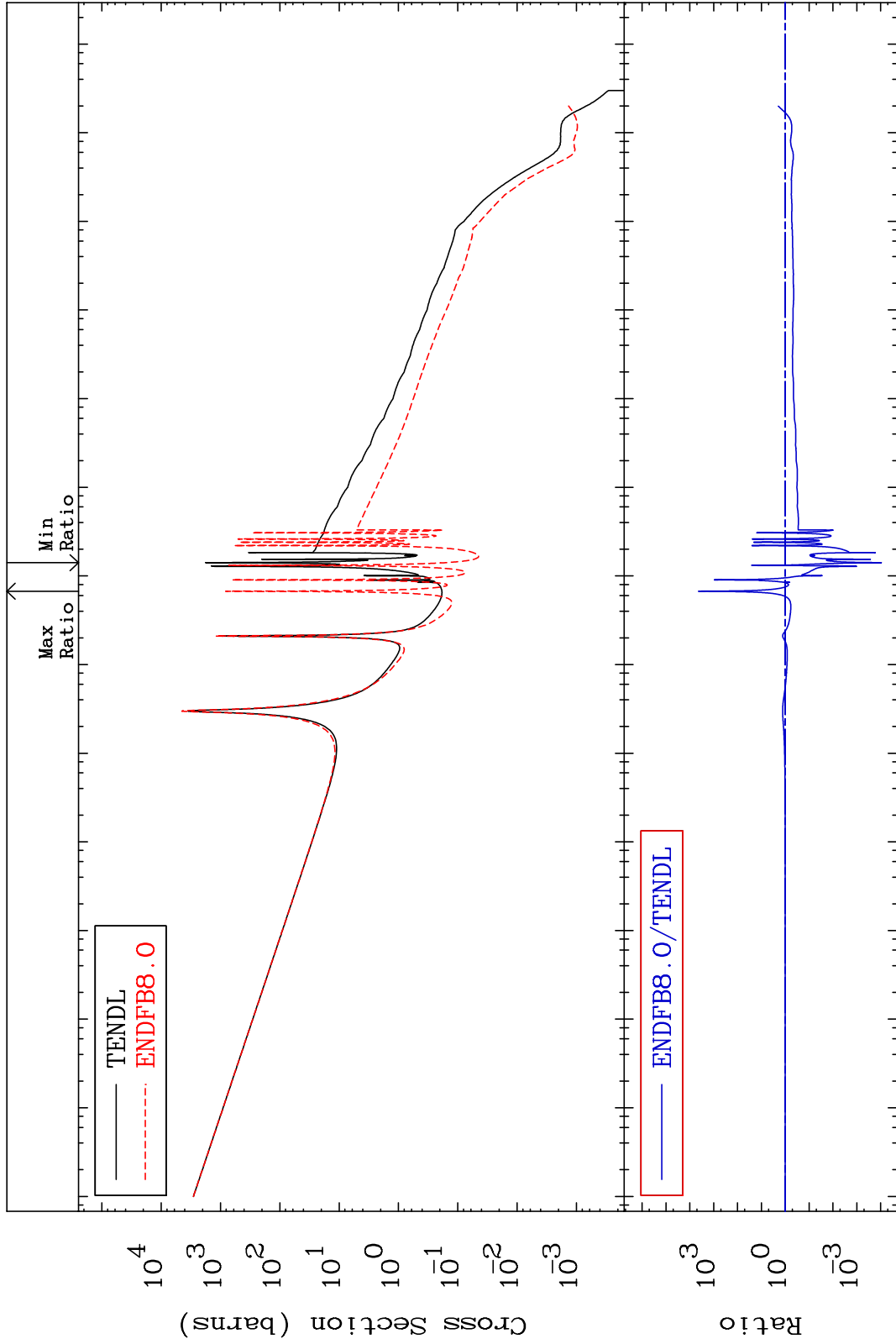
MAT 5725 (n, n') Continuum Cross Section 57-La-138 -22.38 To 4403. %



MAT 5725

(n,  $\gamma$ )  
Cross Section

57-La-138  
-99.99 To 9999. %



— TENDL  
- - - ENDFB8.0

— ENDFB8.0/TENDL

Incident Energy (eV)

26

57-La-138

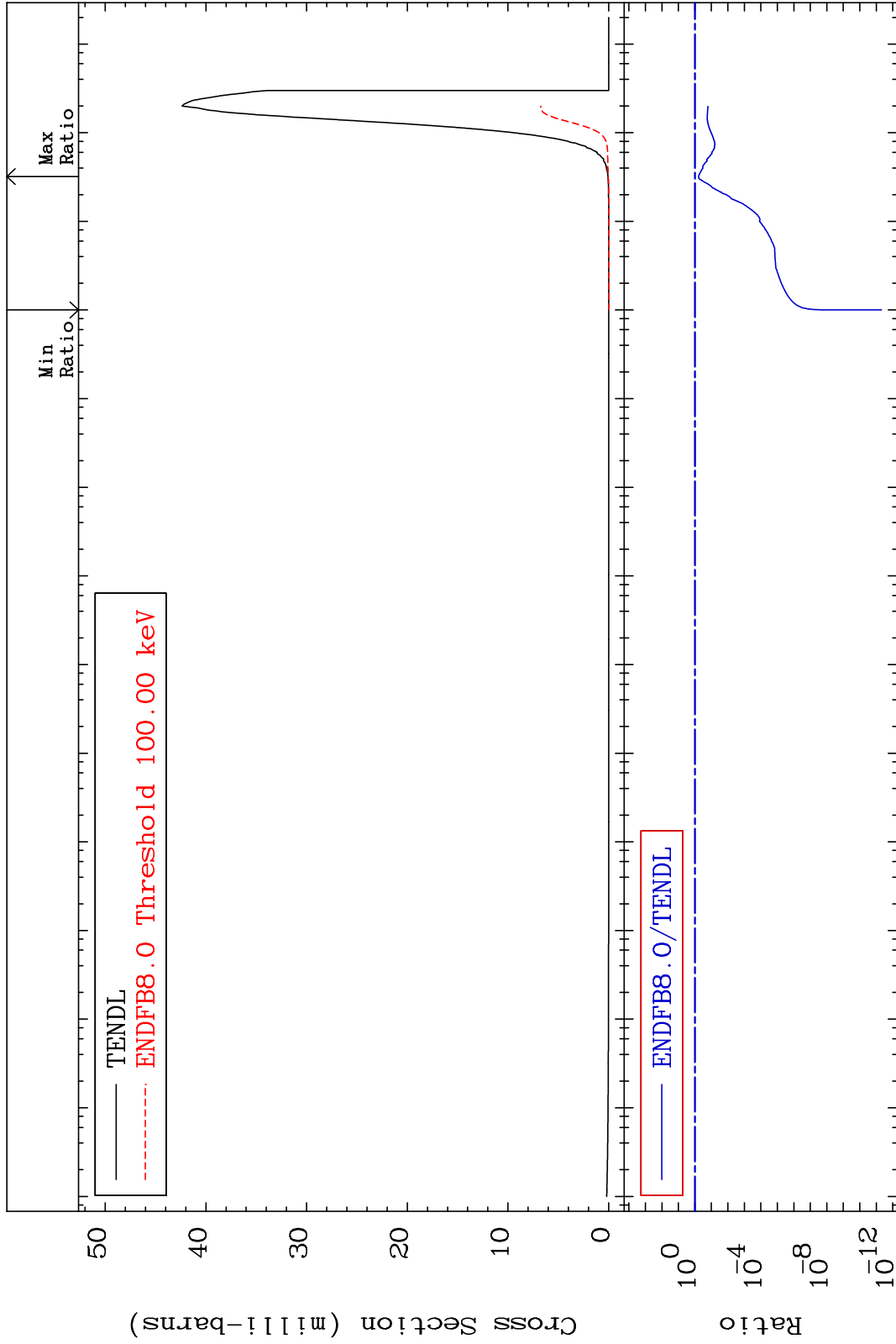
MAT 5725

(n,p)

57-La-138

Cross Section

-100.0 To -38.44%



27

Incident Energy (eV)

57-La-138

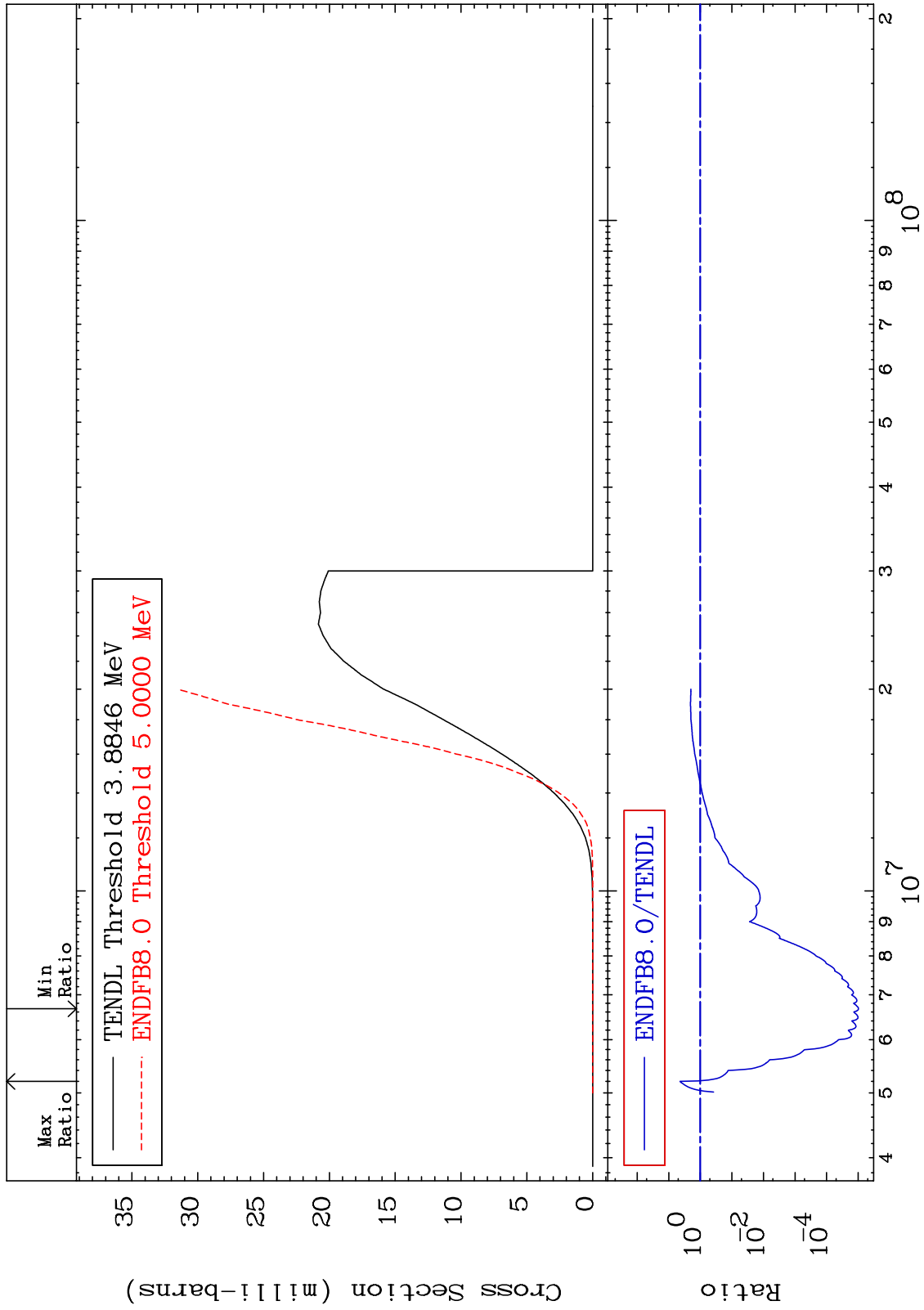
MAT 5725

(n, d)

57-La-138

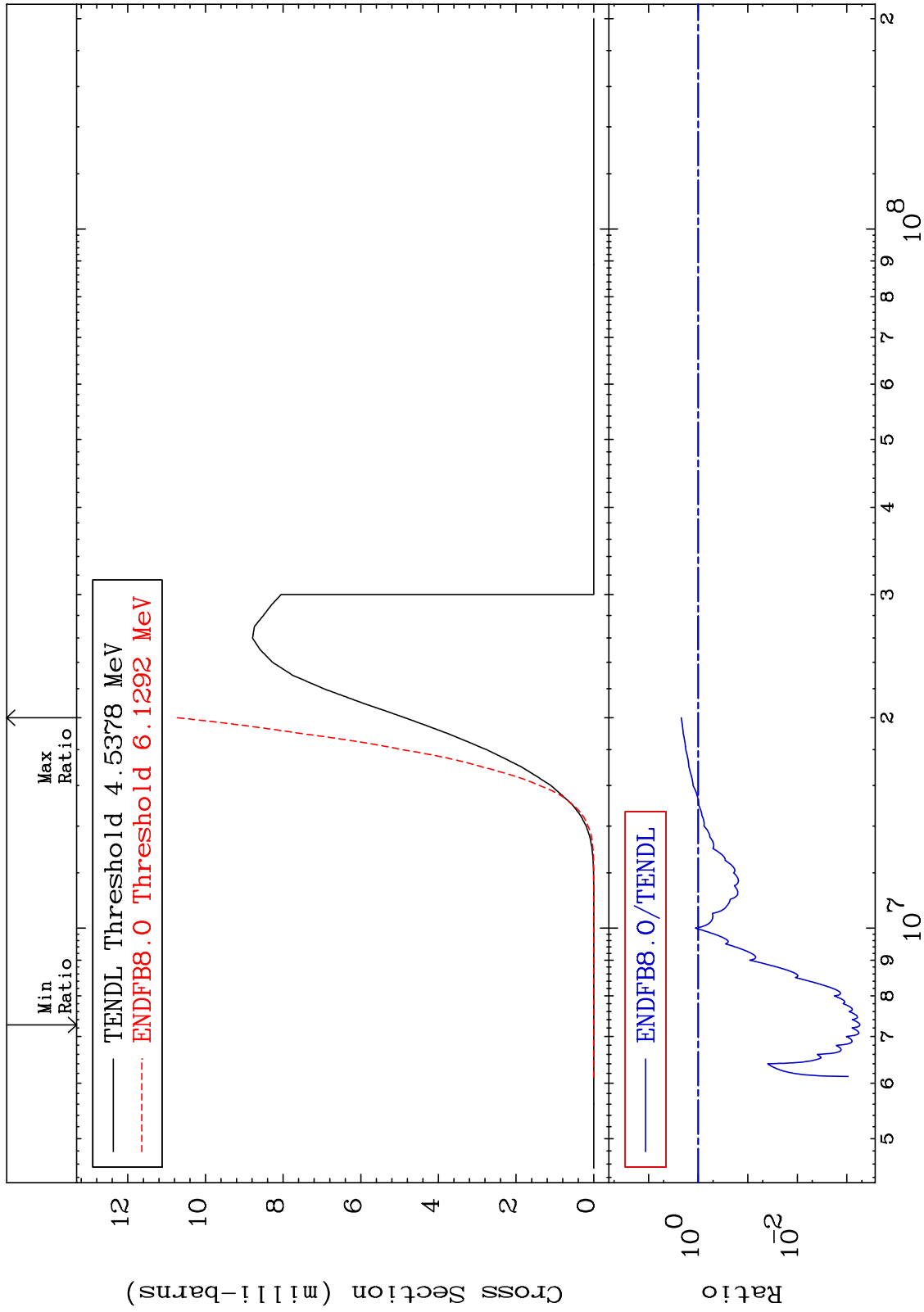
Cross Section

-100.0 To 339.0 %



MAT 5725

(n, t) Cross Section  
57-La-138  
-99.95 To 120.3 %



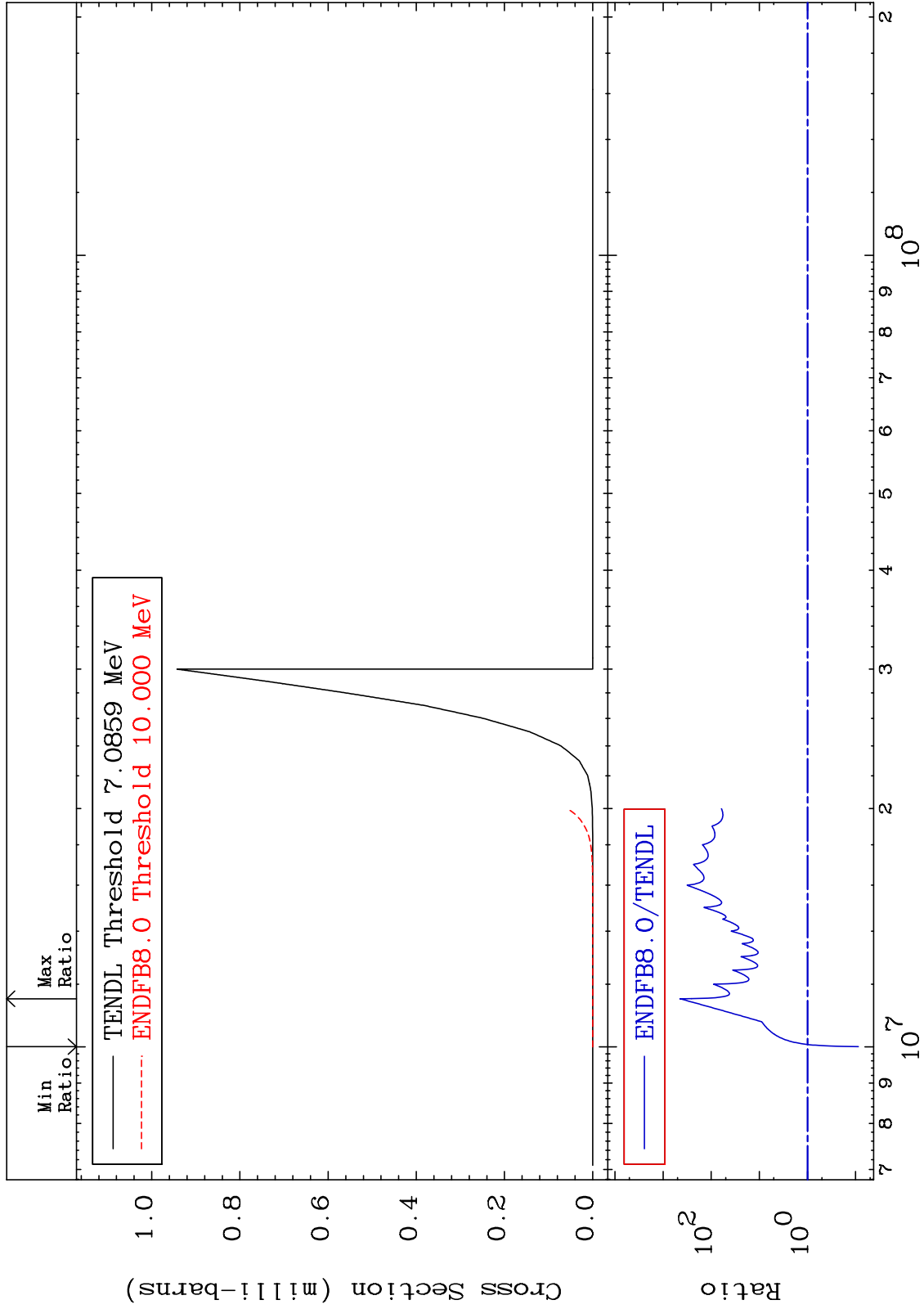
MAT 5725

(n, He-3)

57-La-138

Cross Section

-91.26 To 9999. %



30

Incident Energy (eV)

57-La-138

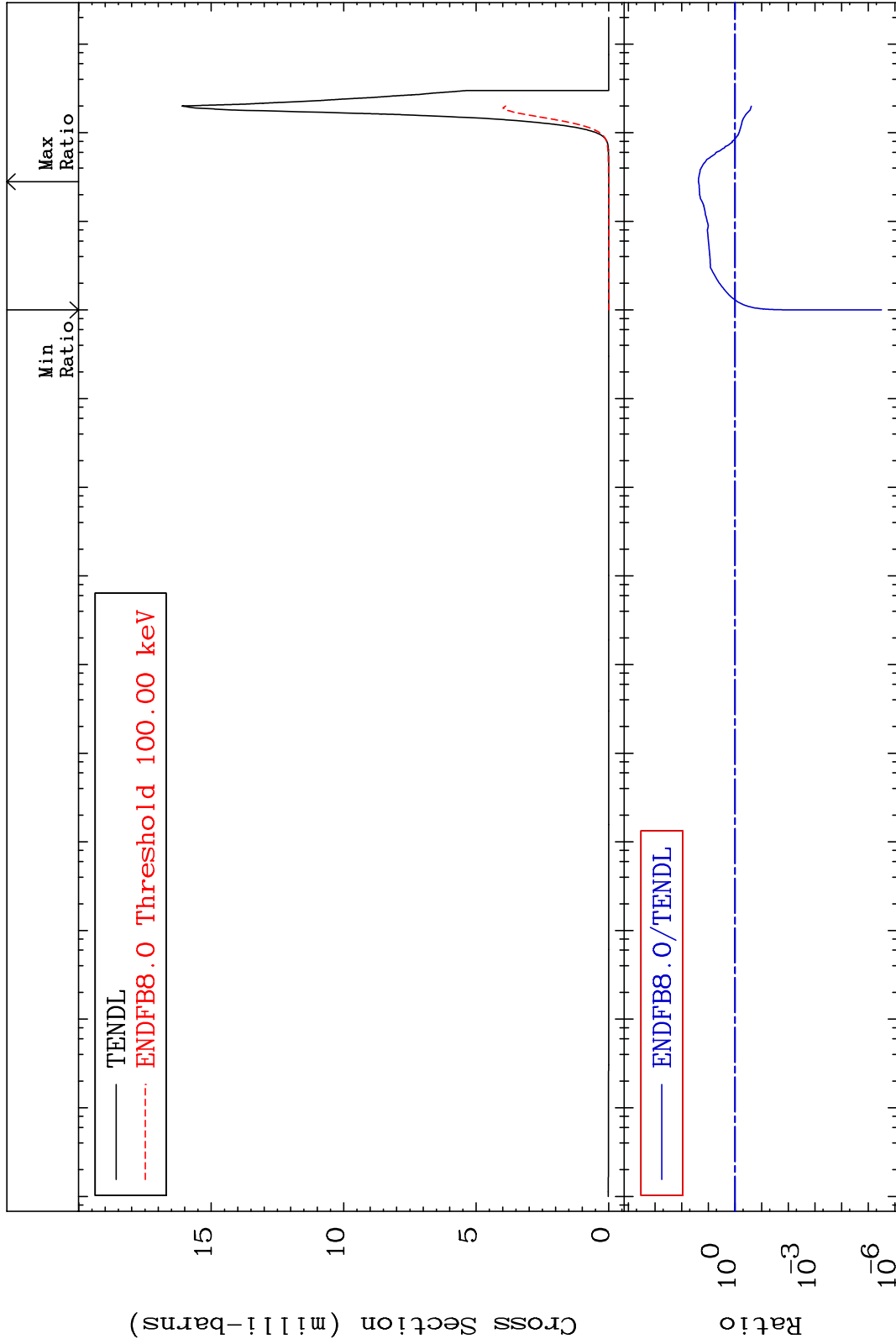
MAT 5725

(n,  $\alpha$ )

57-La-138

Cross Section

-100.0 To 2263. %



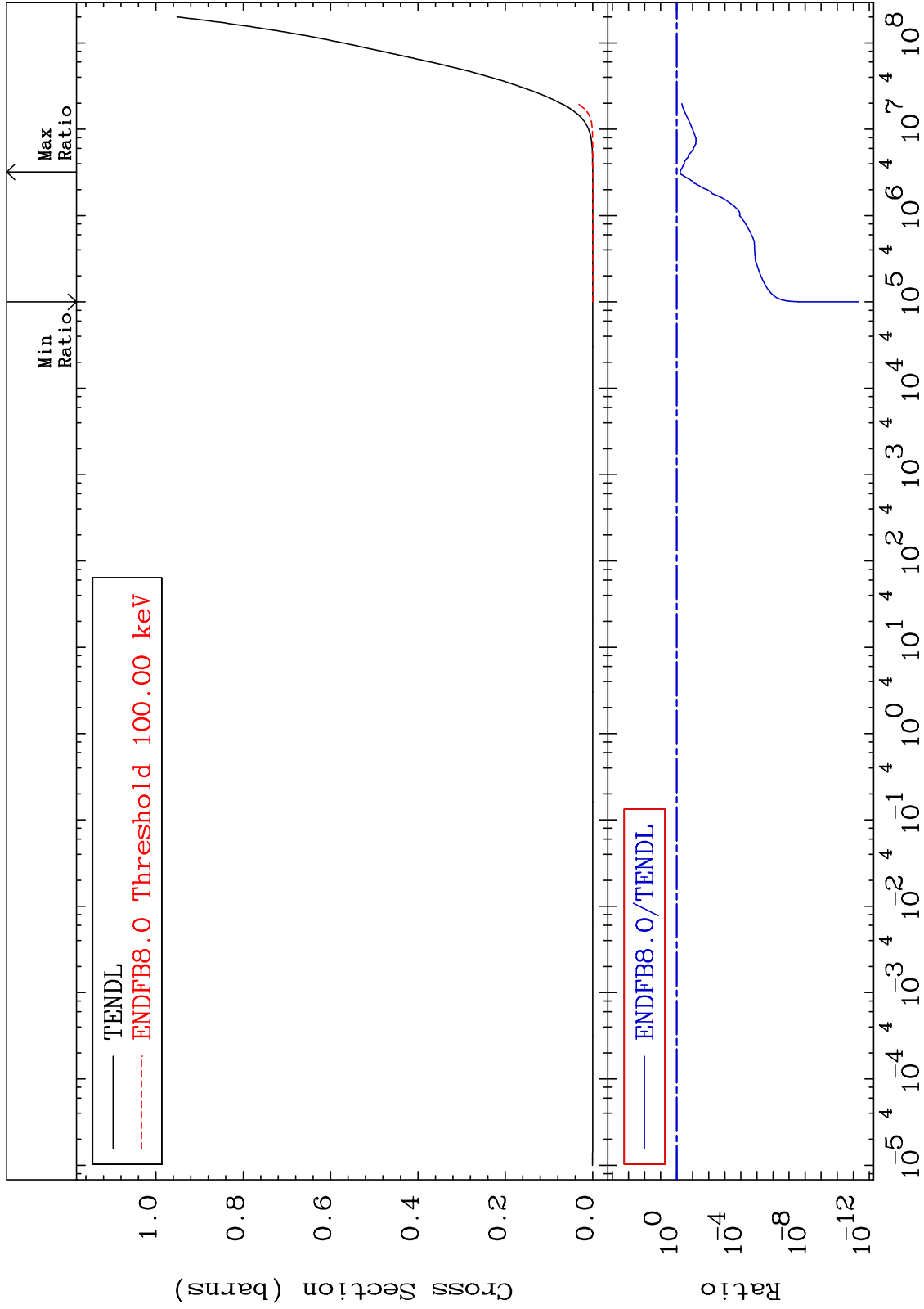
— TENDL  
- - - ENDFB8.0 Threshold 100.00 keV

— ENDFB8.0/TENDL

MAT 5725

Hydrogen Production  
Cross Section

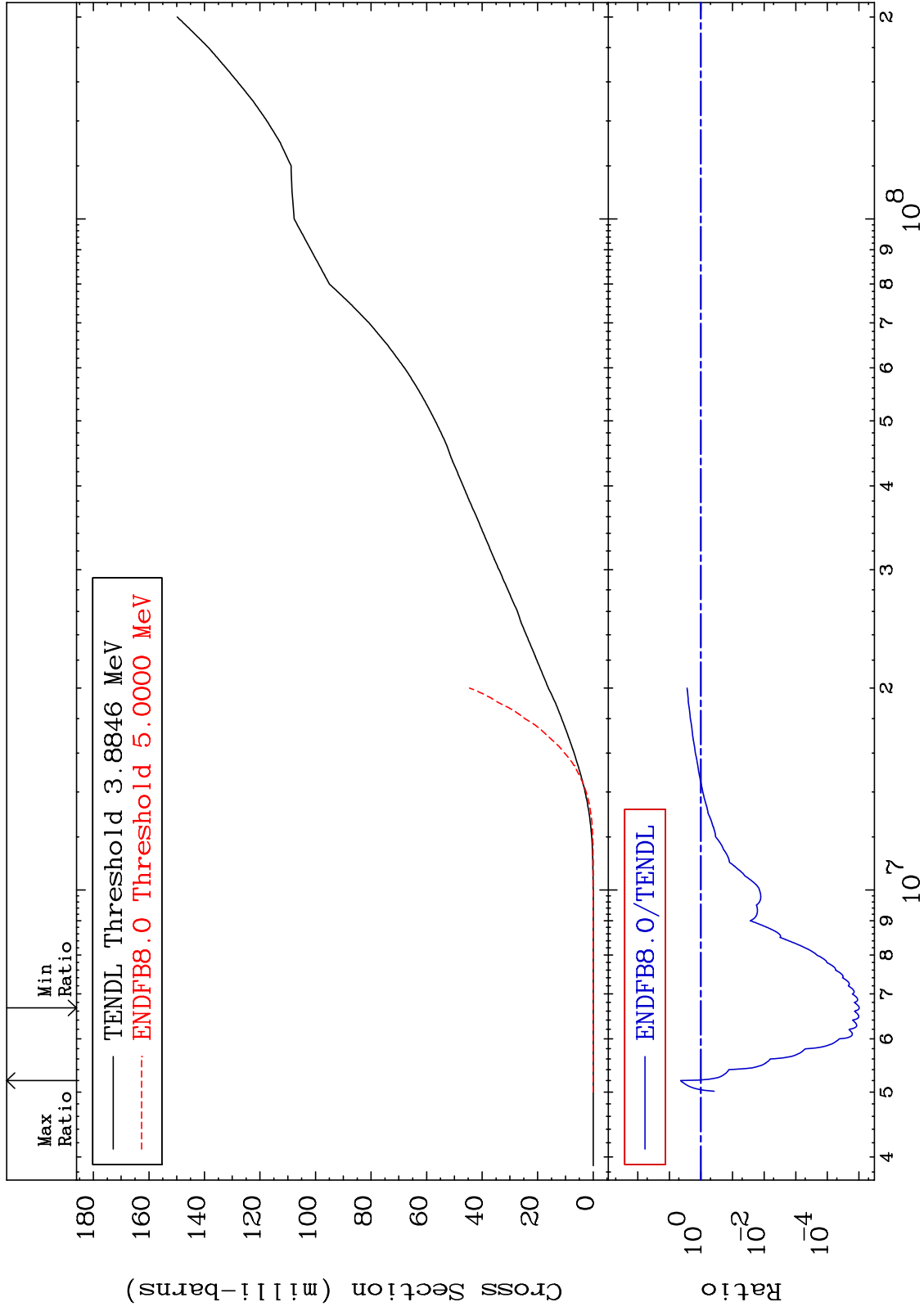
57-La-138  
-100.0 To -38.44%



MAT 5725

Deuterium Production  
Cross Section

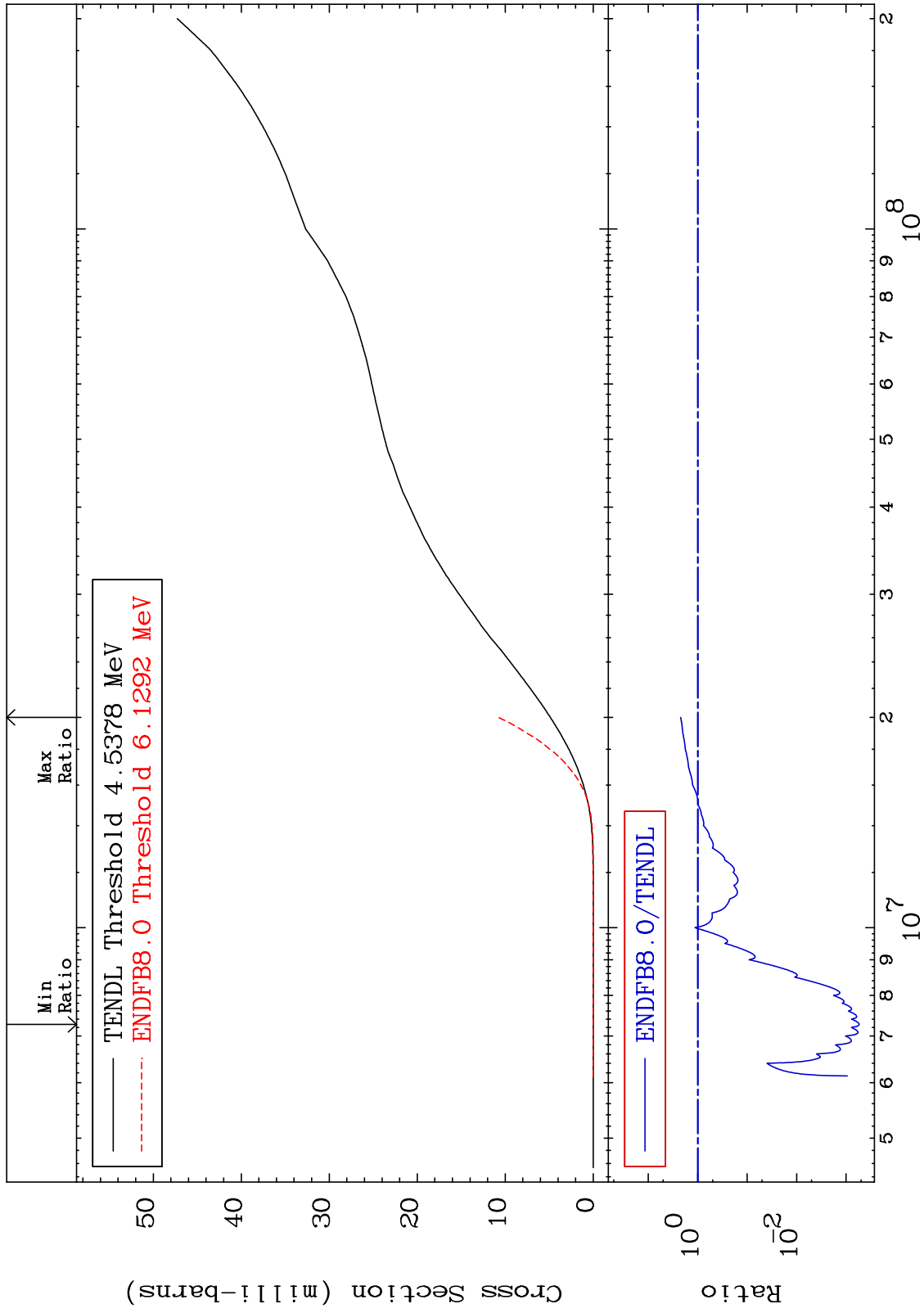
57-La-138  
-100.0 To 339.0 %



MAT 5725

Tritium Production  
Cross Section

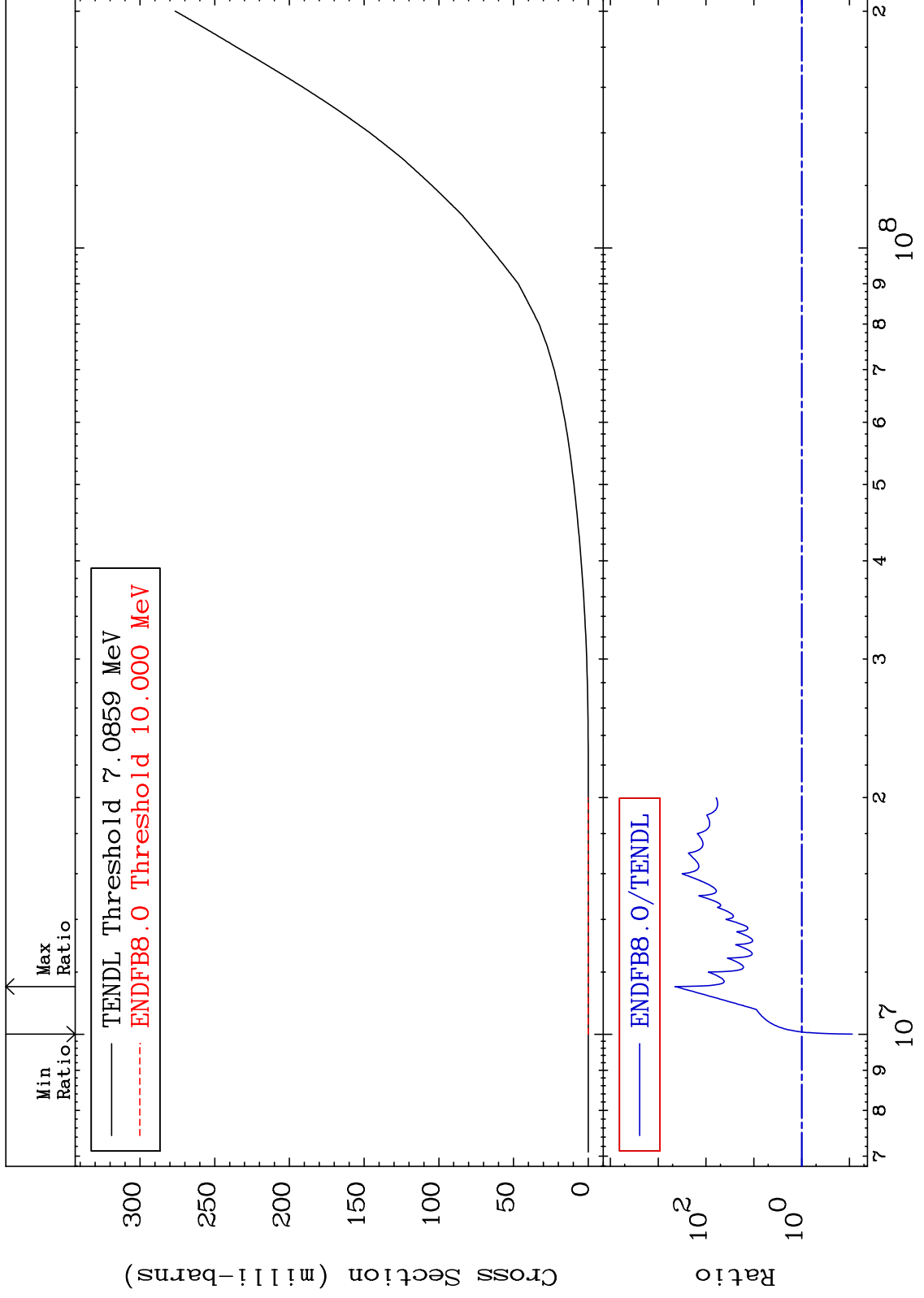
57-La-138  
-99.95 To 122.1 %



MAT 5725

He-3 Production  
Cross Section

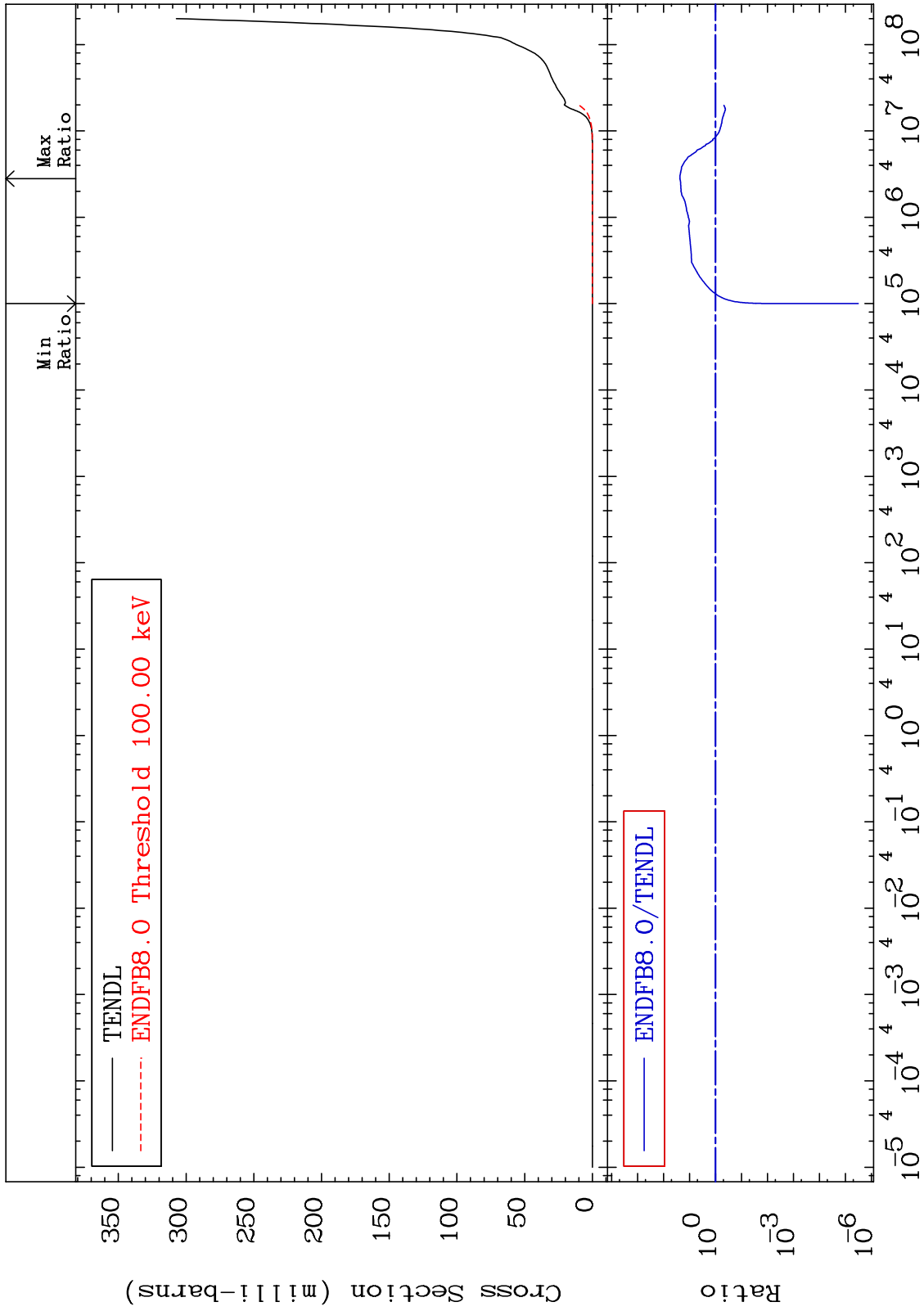
57-La-138  
-91.26 To 9999. %



MAT 5725

He-4 Production  
Cross Section

57-La-138  
-100.0 To 2263. %



36

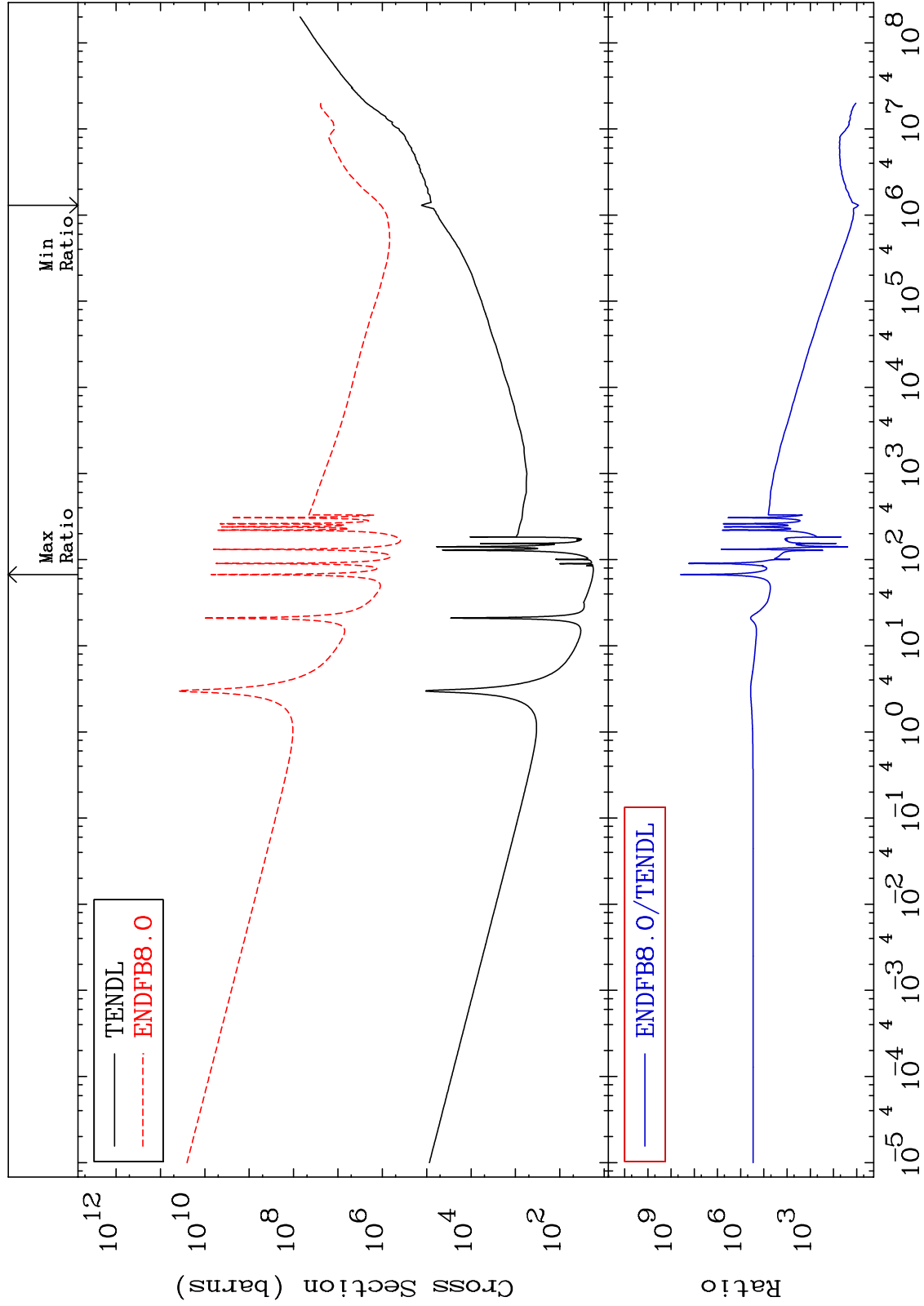
Incident Energy (eV)

57-La-138

MAT 5725

Kerma total (eV-barns)  
Cross Section

57-La-138  
729.6 To 9999. %



37

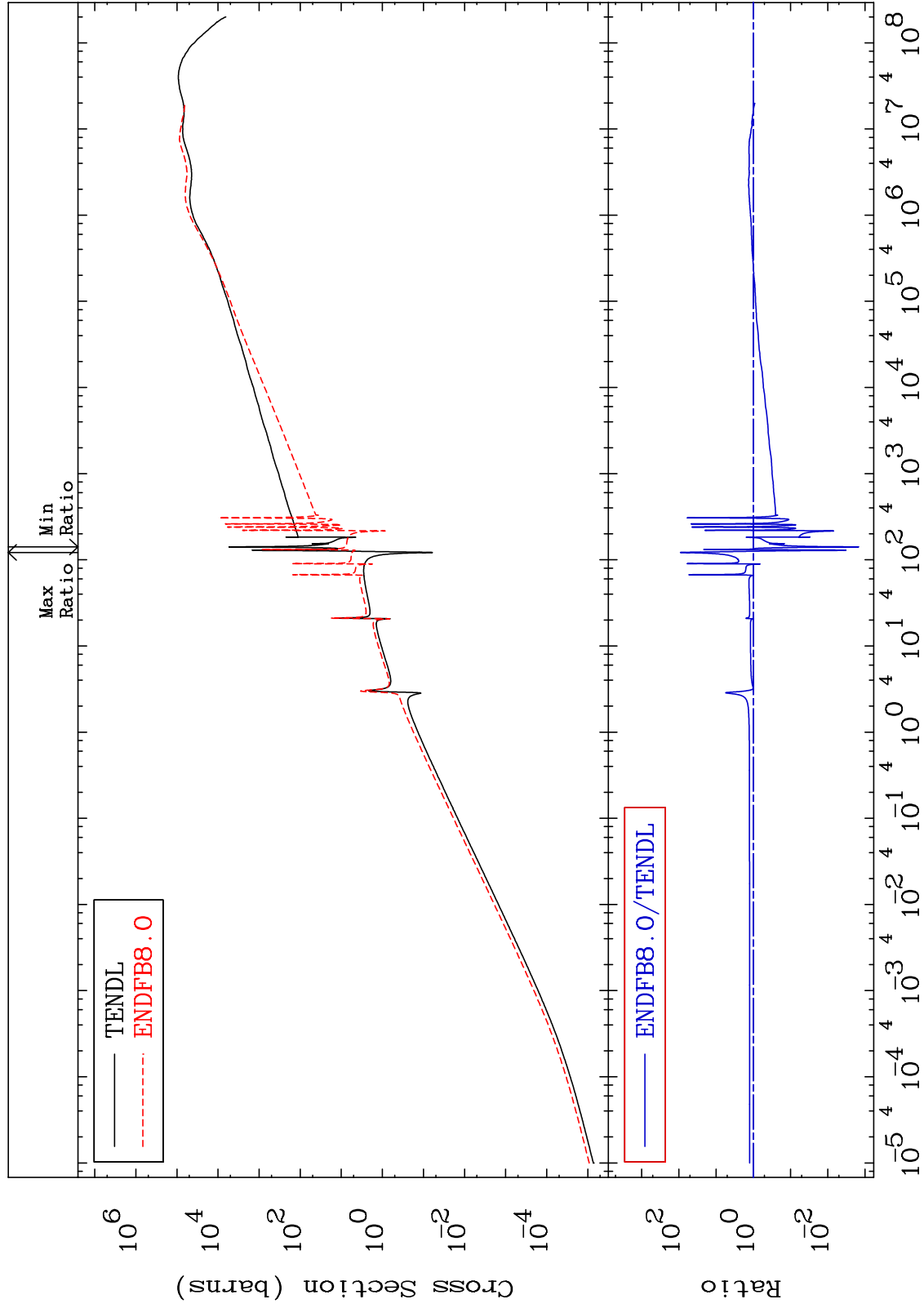
Incident Energy (eV)

57-La-138

MAT 5725

Kerma elastic  
Cross Section

57-La-138  
-99.85 To 8941. %



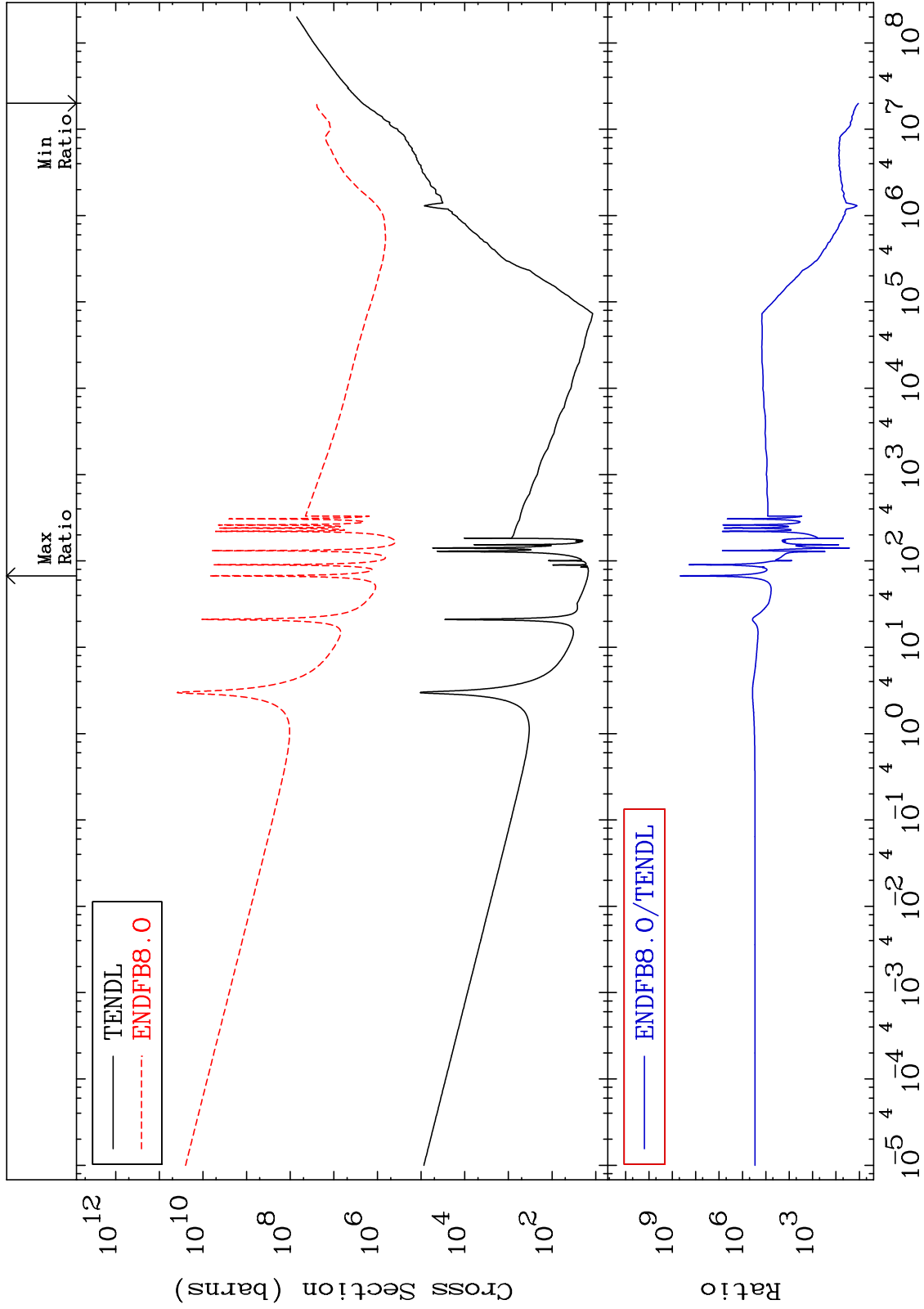
MAT 5725

Kerma non-elastic (all but mt2)

57-La-138

998.7 To 9999. %

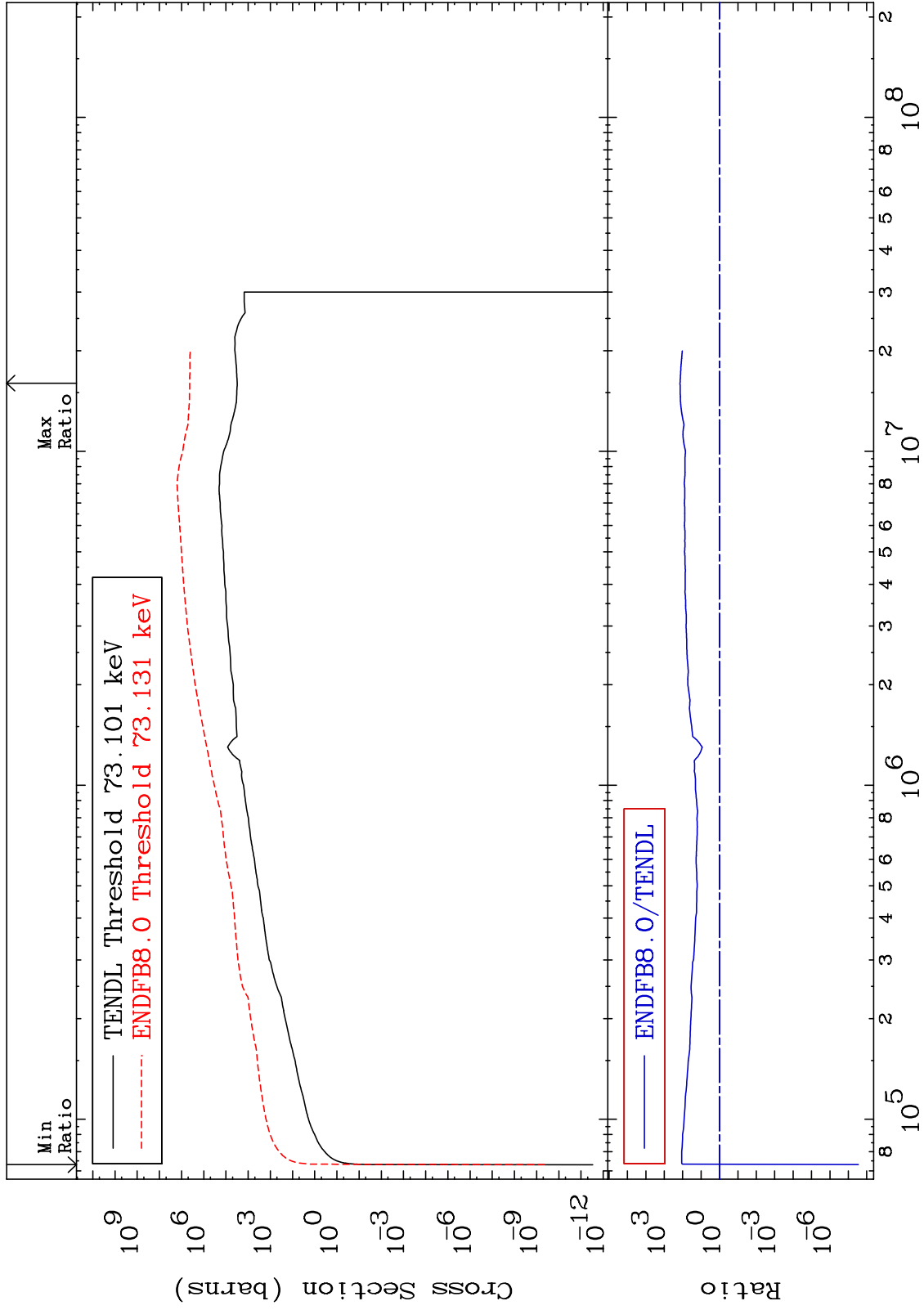
Cross Section



MAT 5725

Kerma inelastic (mt51-91)  
Cross Section

57-La-138  
-100.0 To 9999. %



40

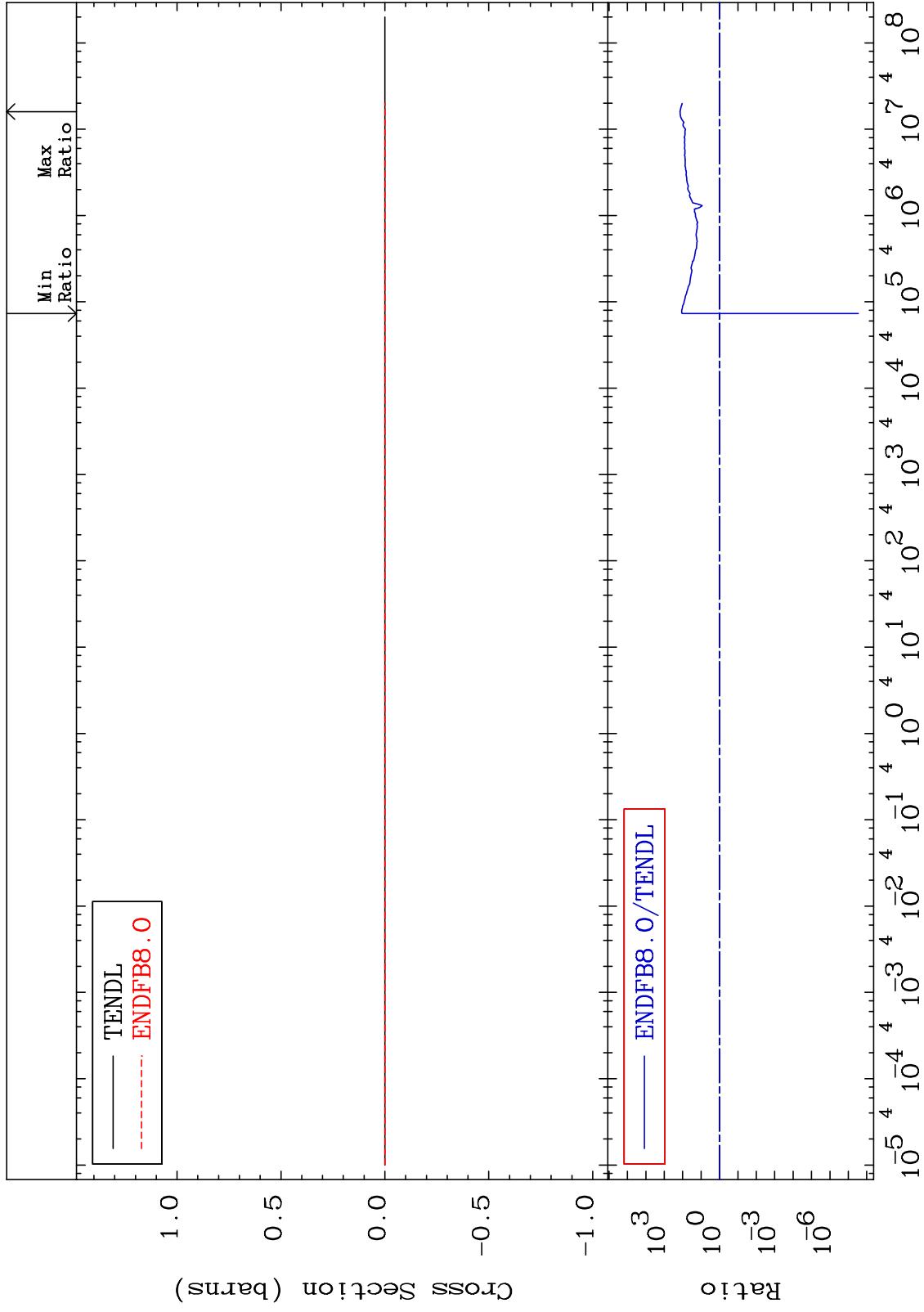
Incident Energy (eV)

57-La-138

MAT 5725

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

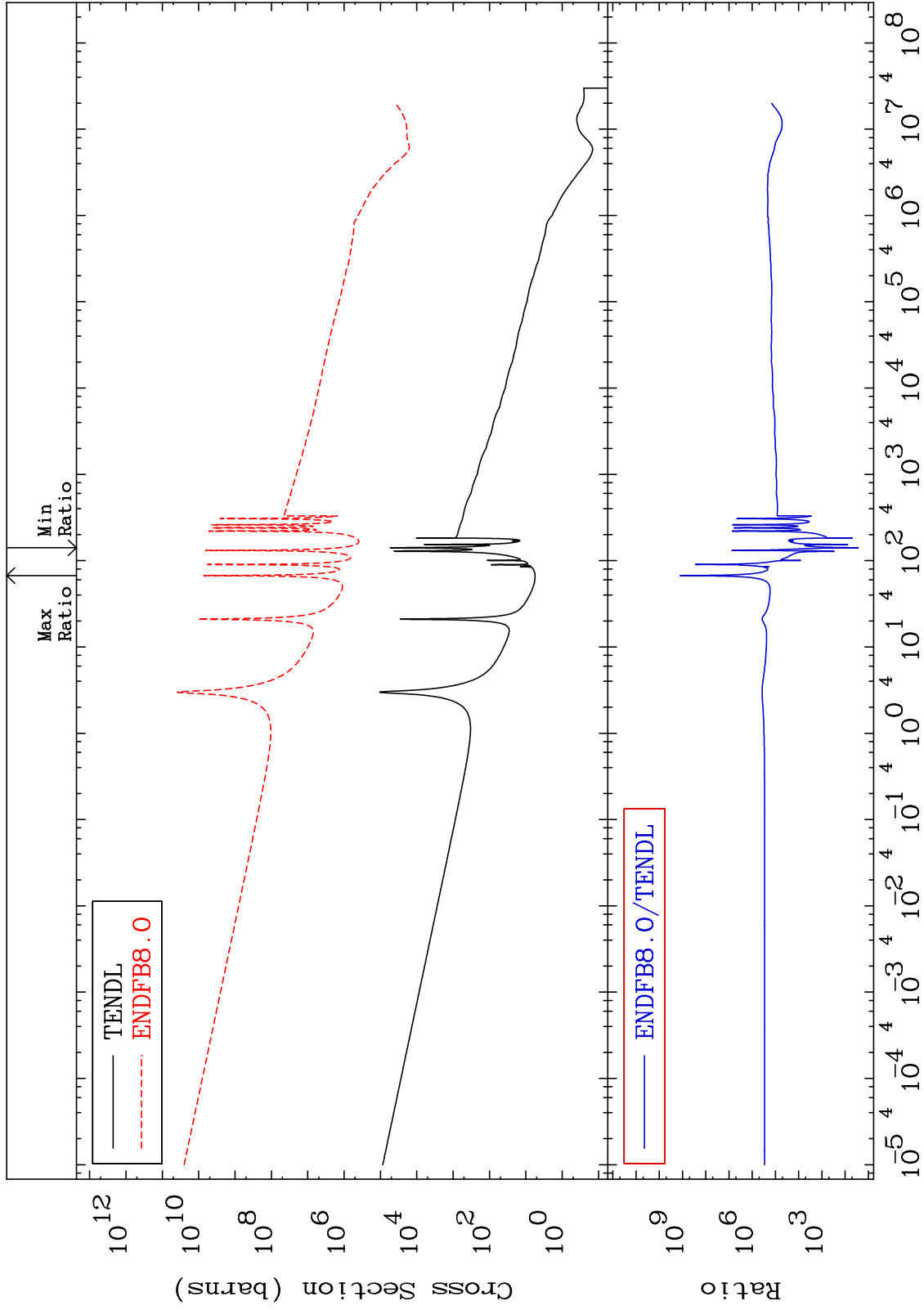
57-La-138  
-100.0 To 9999. %



MAT 5725

Kerma capture (mt102)  
Cross Section

57-La-138  
2567. To 9999. %



42

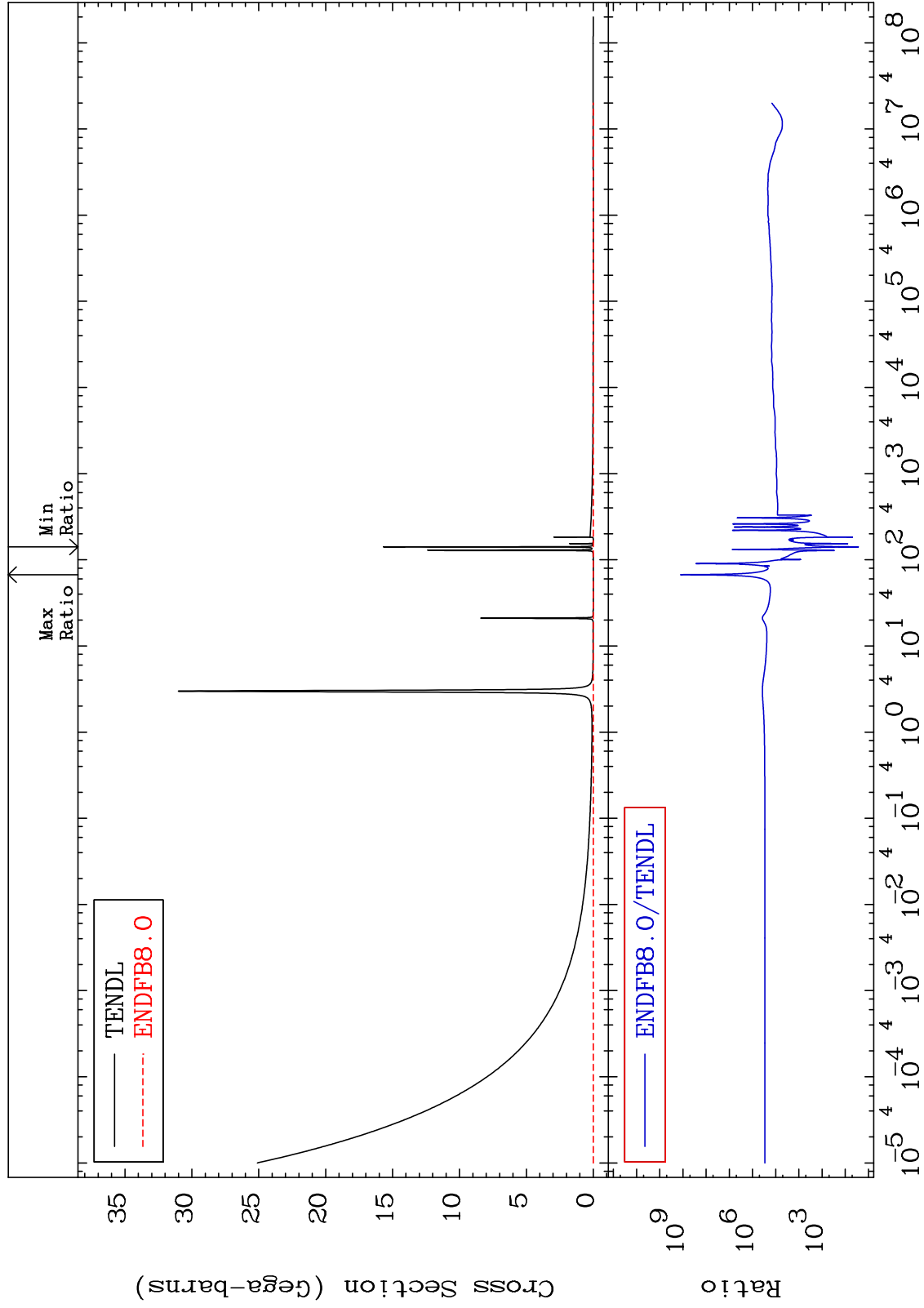
Incident Energy (eV)

57-La-138

MAT 5725

Total photon (eV-barns)  
Cross Section

57-La-138  
2567. To 9999. %



43

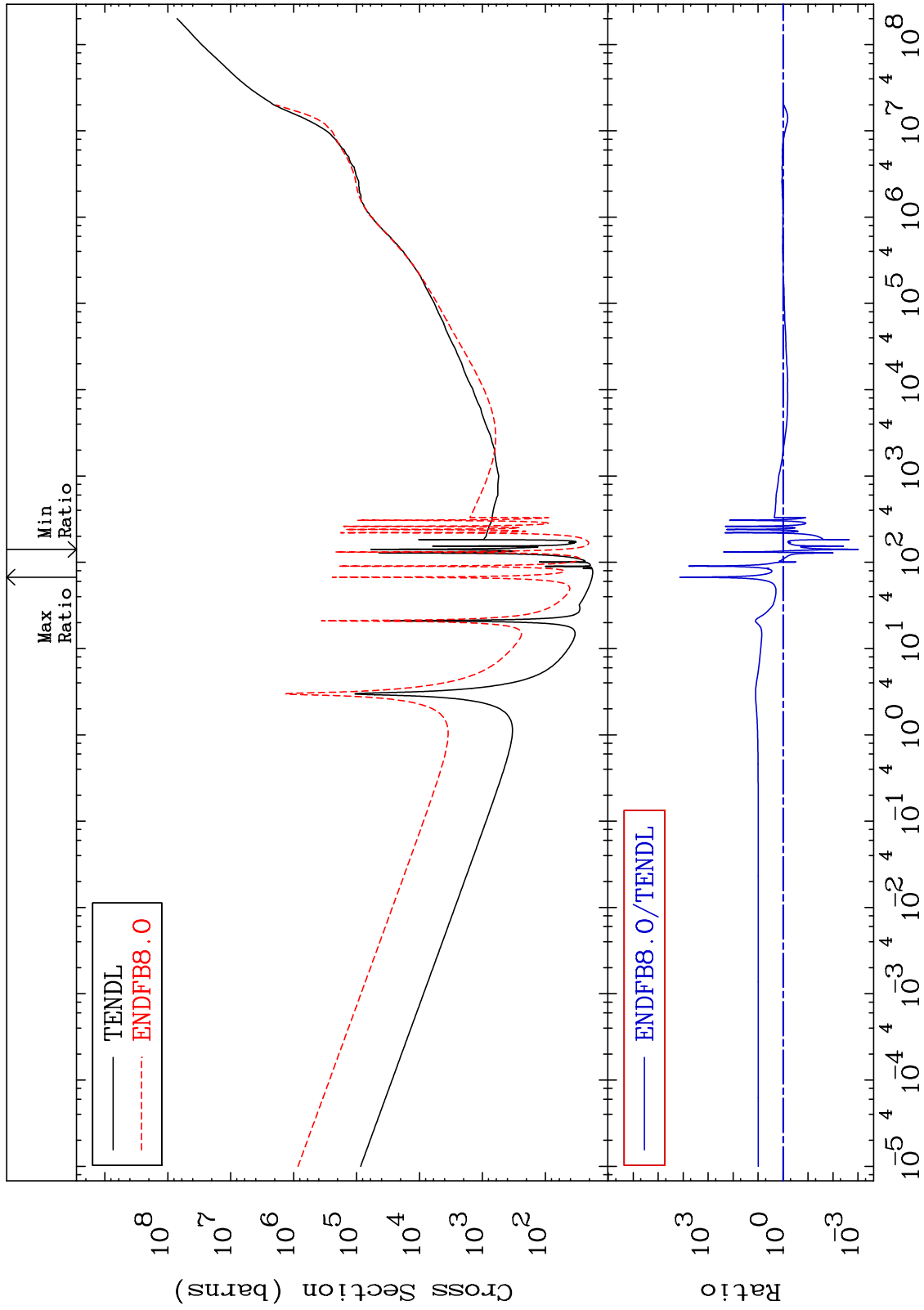
Incident Energy (eV)

57-La-138

MAT 5725

Total kinematic kerma (high limit)  
Cross Section

57-La-138  
-99.90 To 9999. %



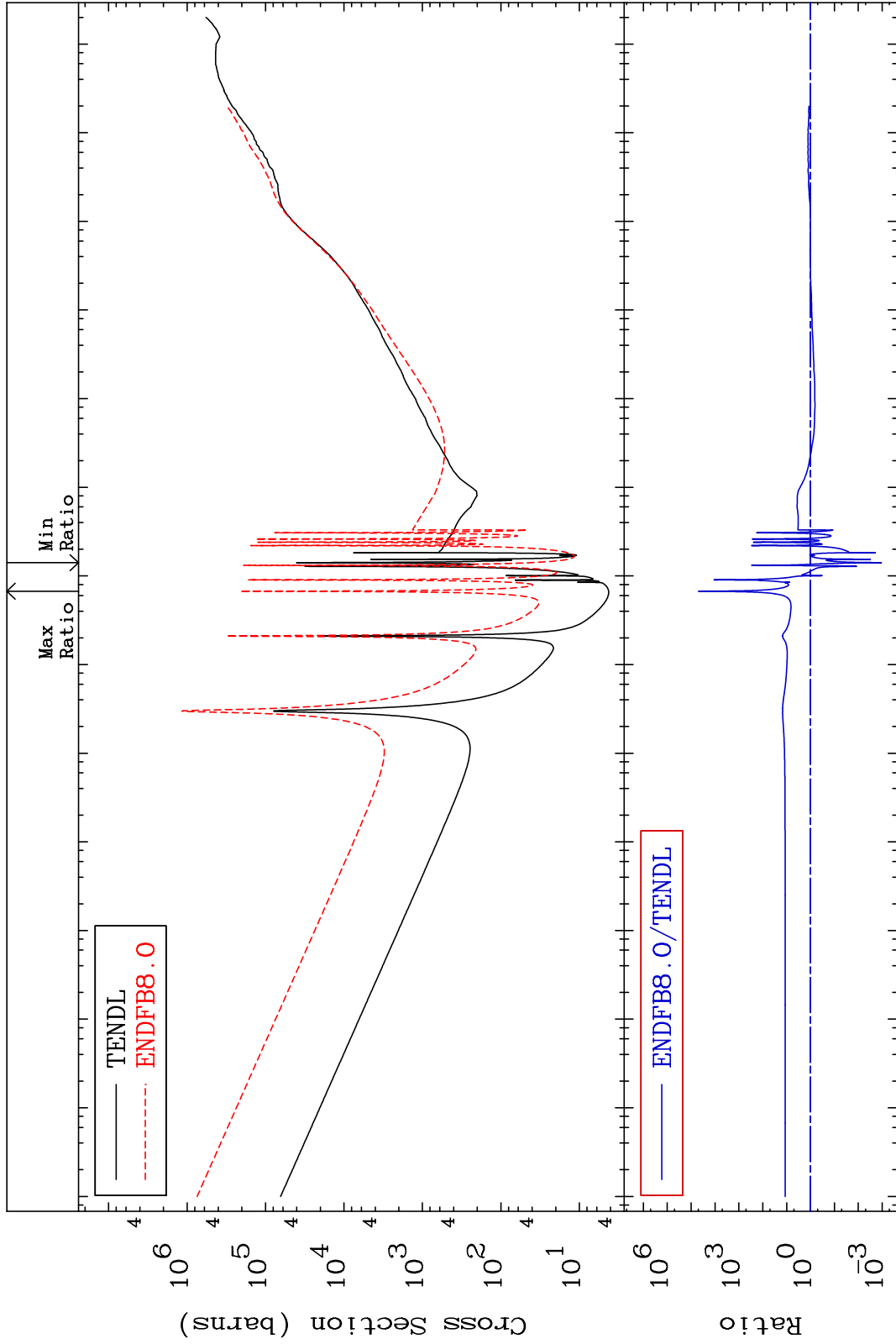
MAT 5725

Dpa total (eV-barns)

57-La-138

-99.89 To 9999. %

Cross Section



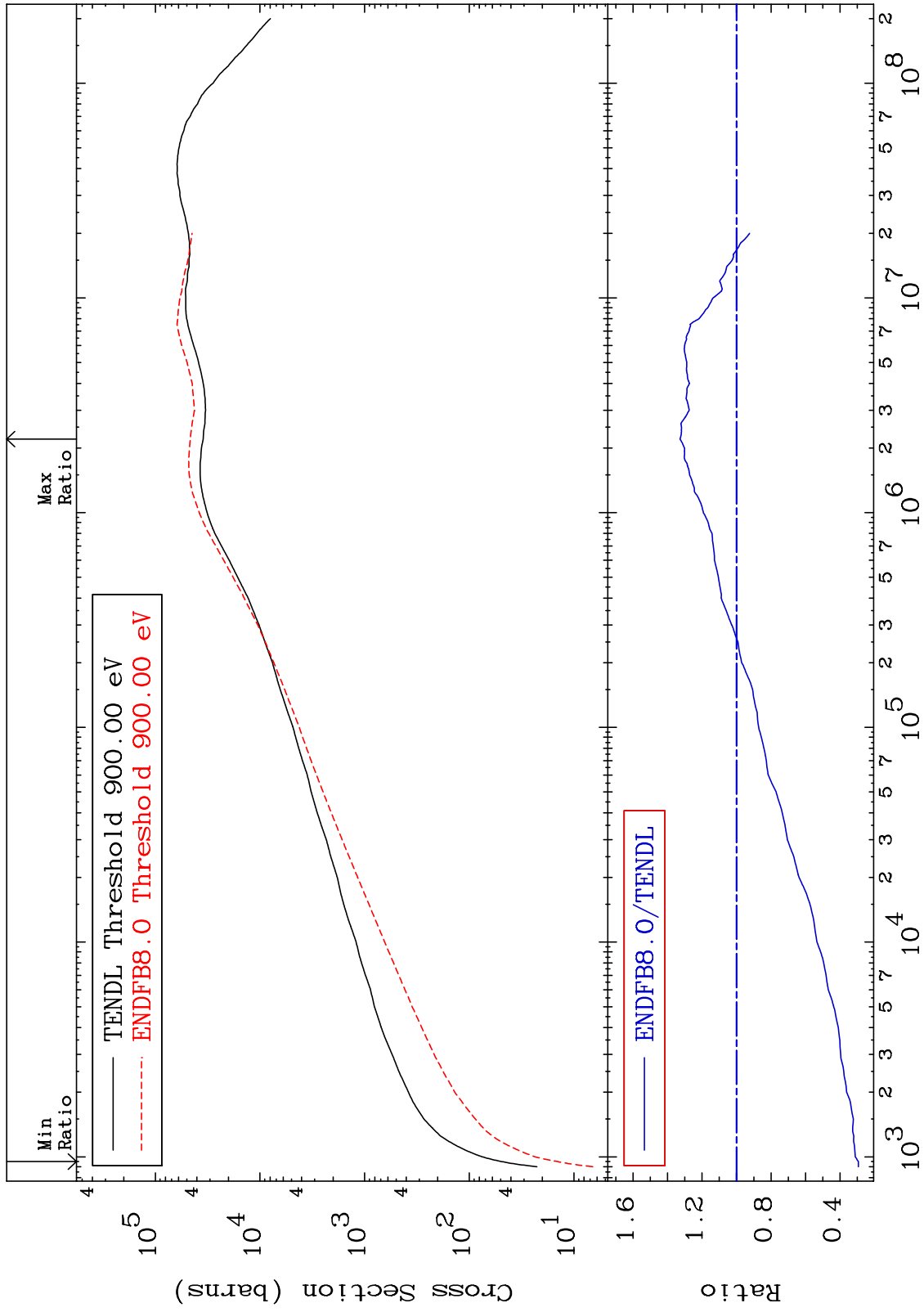
Incident Energy (eV)

57-La-138

MAT 5725

Dpa elastic (mt2)  
Cross Section

57-La-138  
-70.70 To 32.79 %



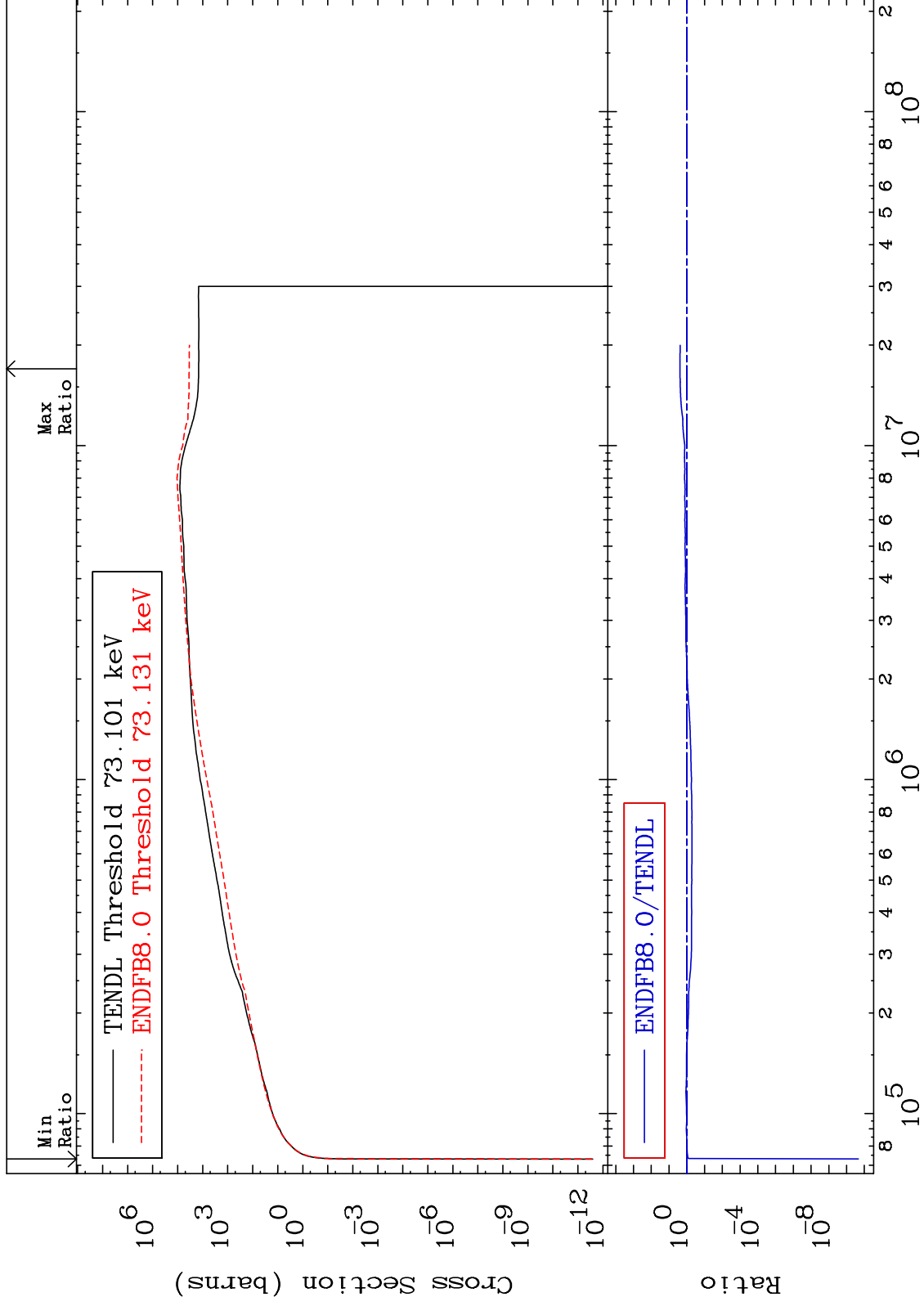
46

57-La-138

MAT 5725

Dpa inelastic (mt51-91)  
Cross Section

57-La-138  
-100.0 To 140.0 %



MAT 5725

Dpa disappearance (mt102 -120)  
Cross Section

57-La-138  
-99.89 To 9999. %

