

Program Complot  
(Version 2018-1)

by

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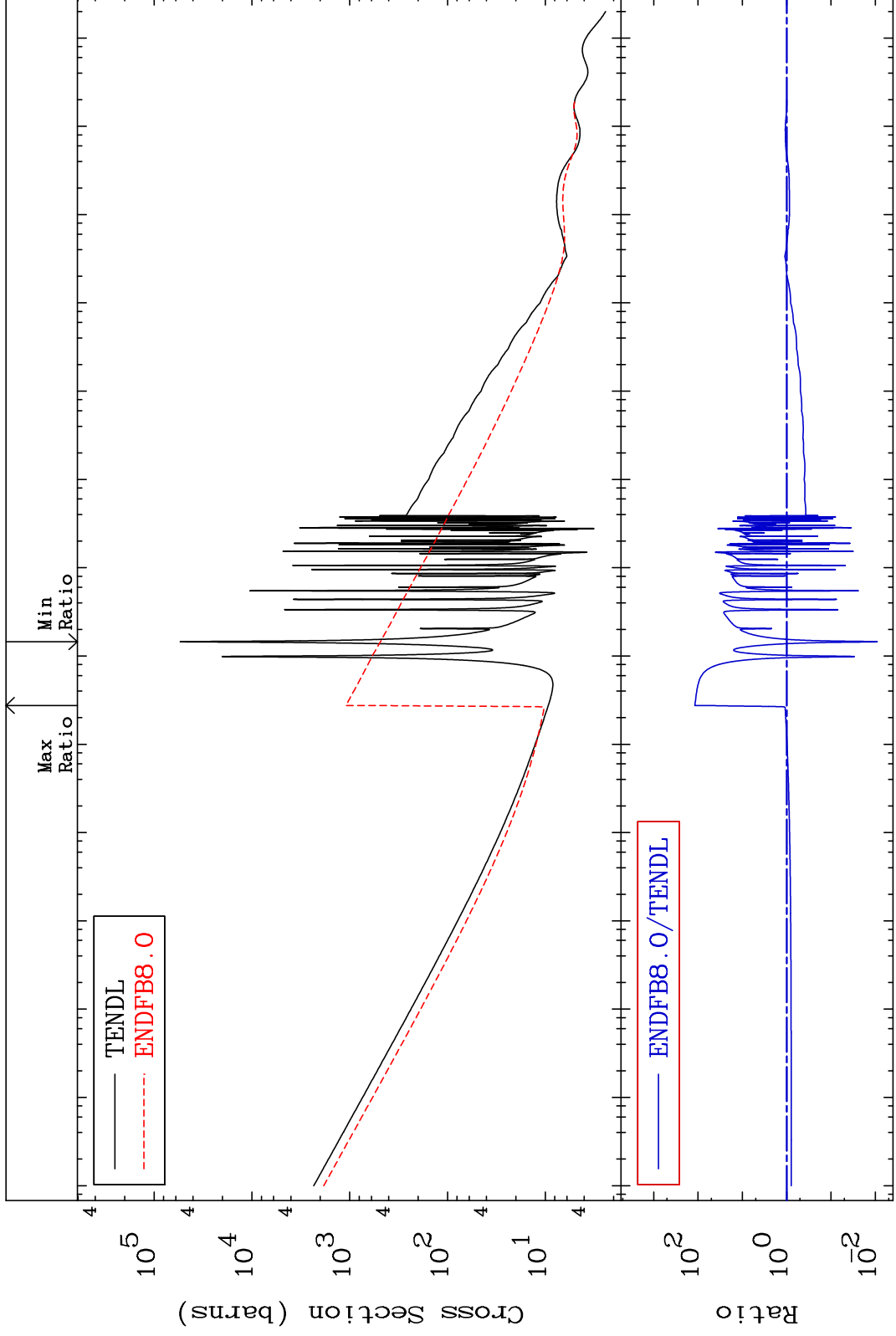
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6619

Total  
Cross Section

66-Dy-154  
-99.10 To 9999. %



Incident Energy (eV)

66-Dy-154

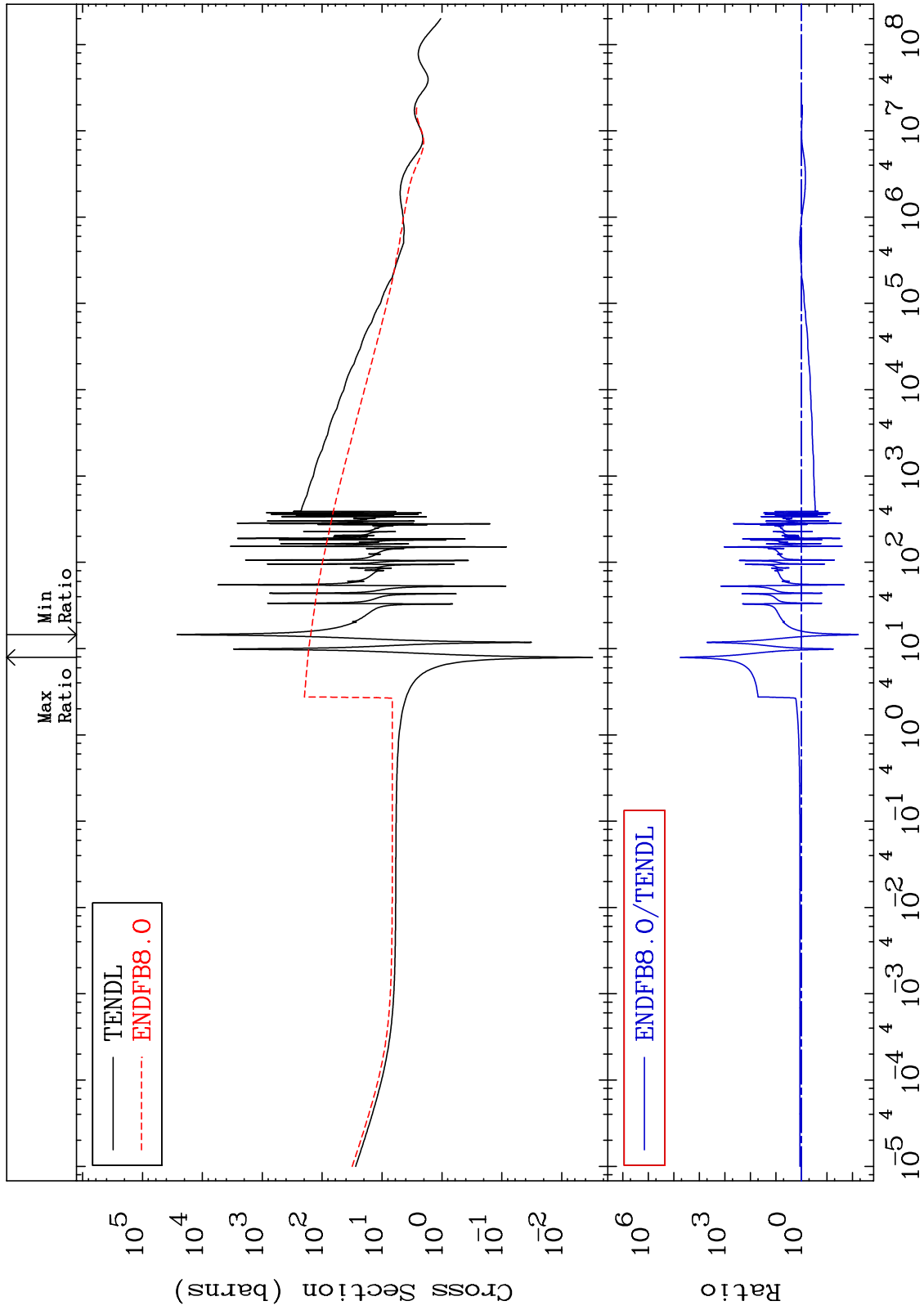
MAT 6619

Elastic

66-Dy-154

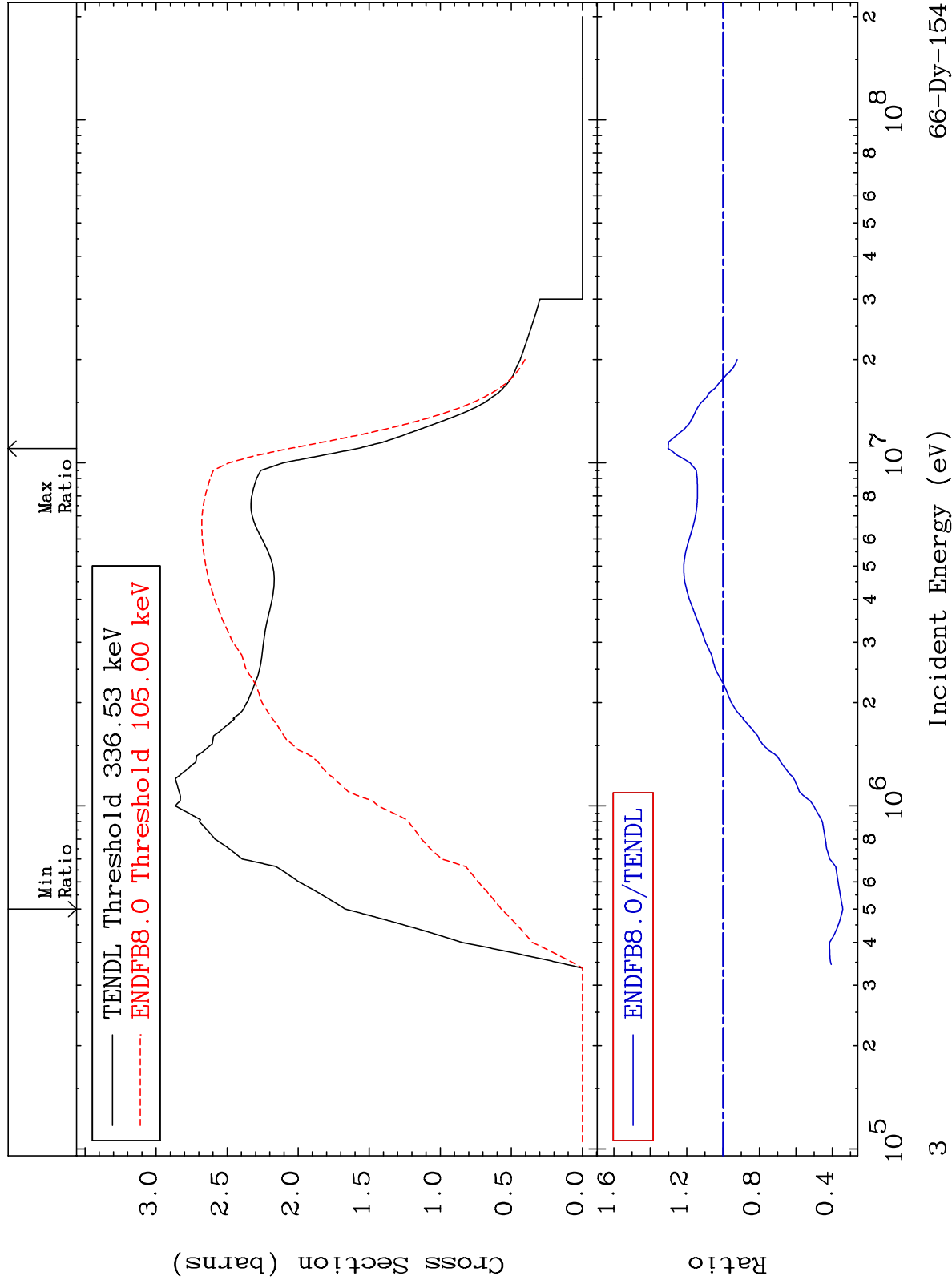
Cross Section

-99.41 To 9999. %



MAT 6619

Inelastic Cross Section  
66-Dy-154  
-65.80 To 30.27 %



66-Dy-154

Incident Energy (eV)

3

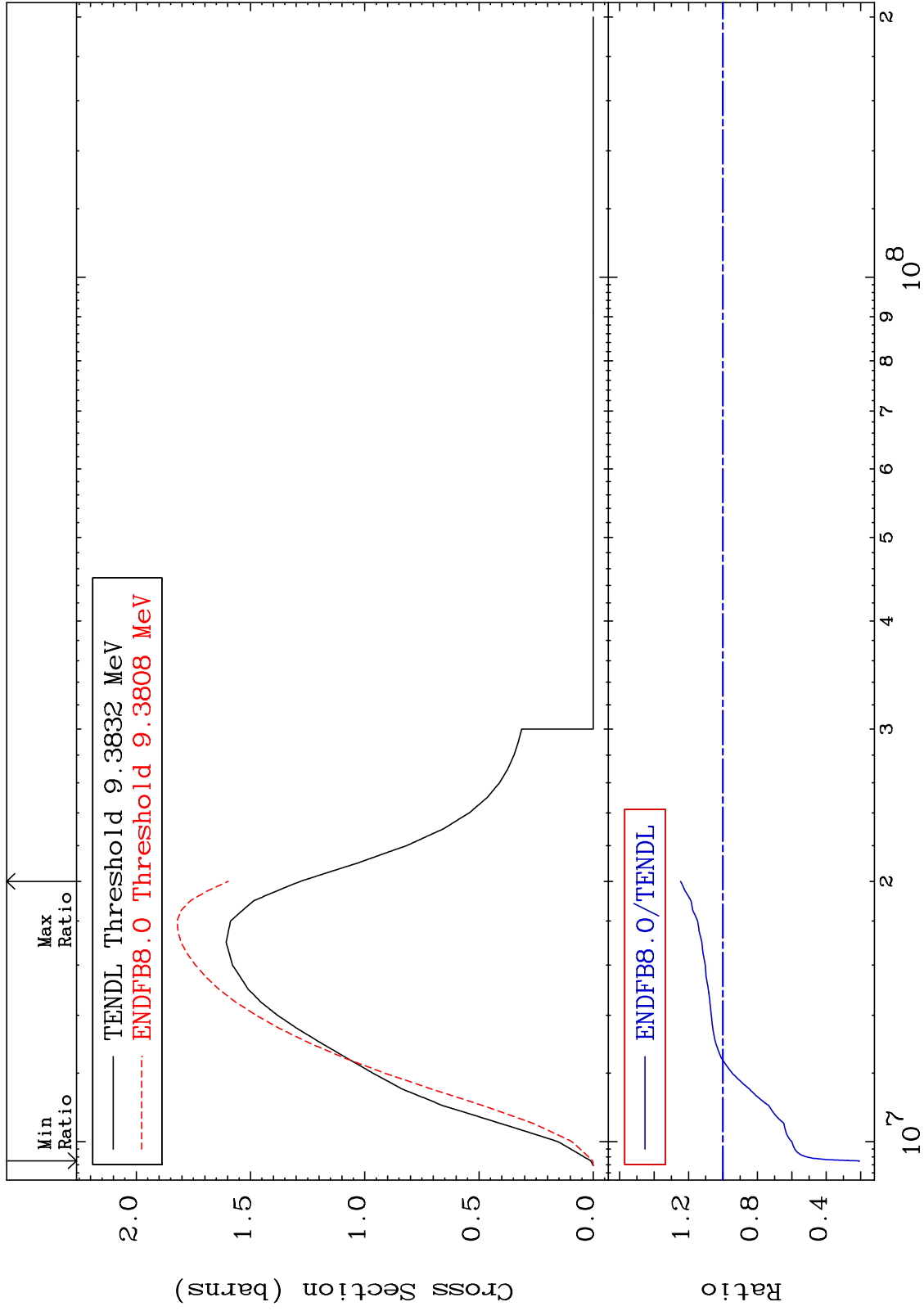
MAT 6619

(n,2n)

66-Dy-154

Cross Section

-79.11 To 24.60 %



4

Incident Energy (eV)

66-Dy-154

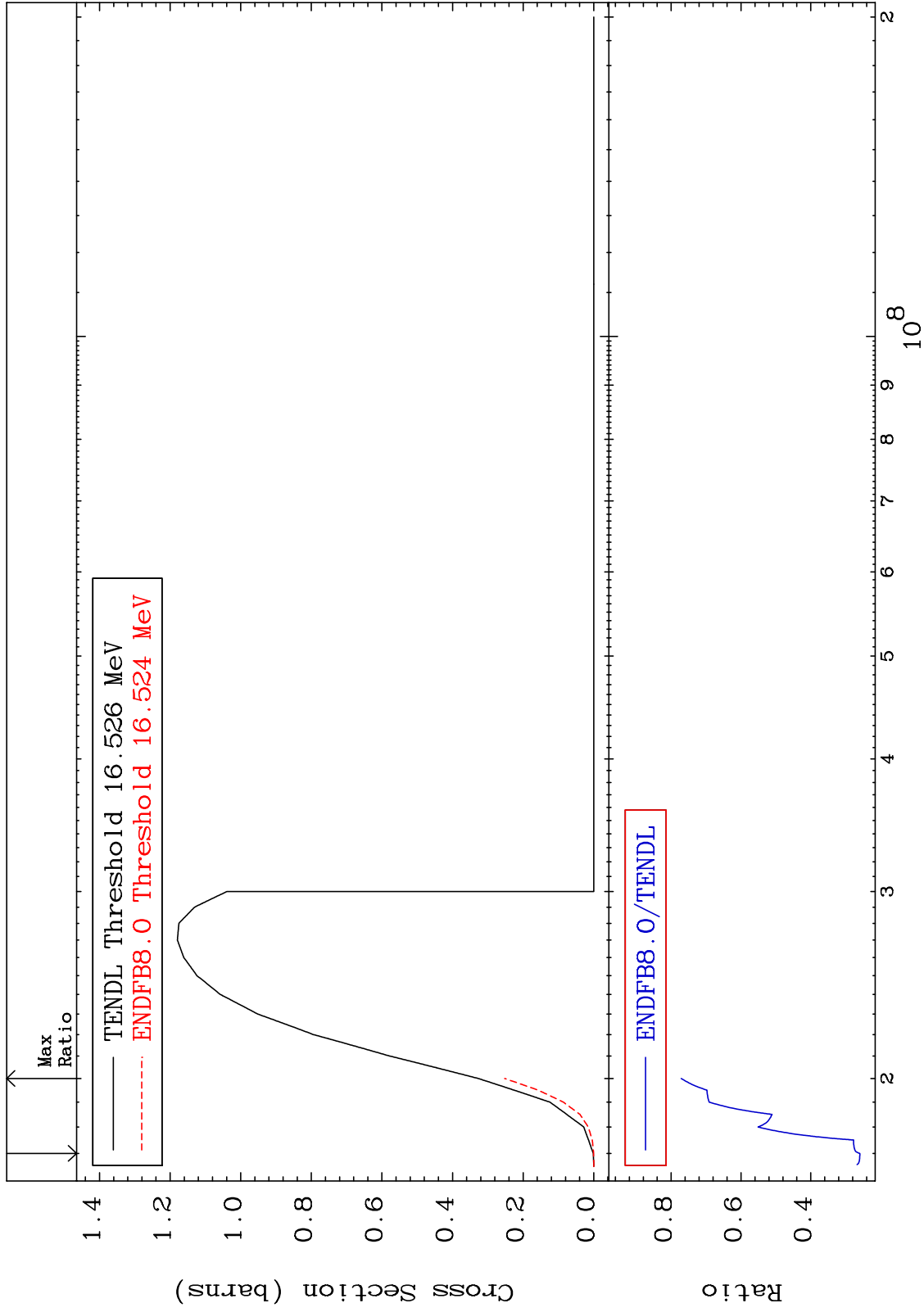
MAT 6619

(n, 3n)

66-Dy-154

Cross Section

-74.08 To -22.88%



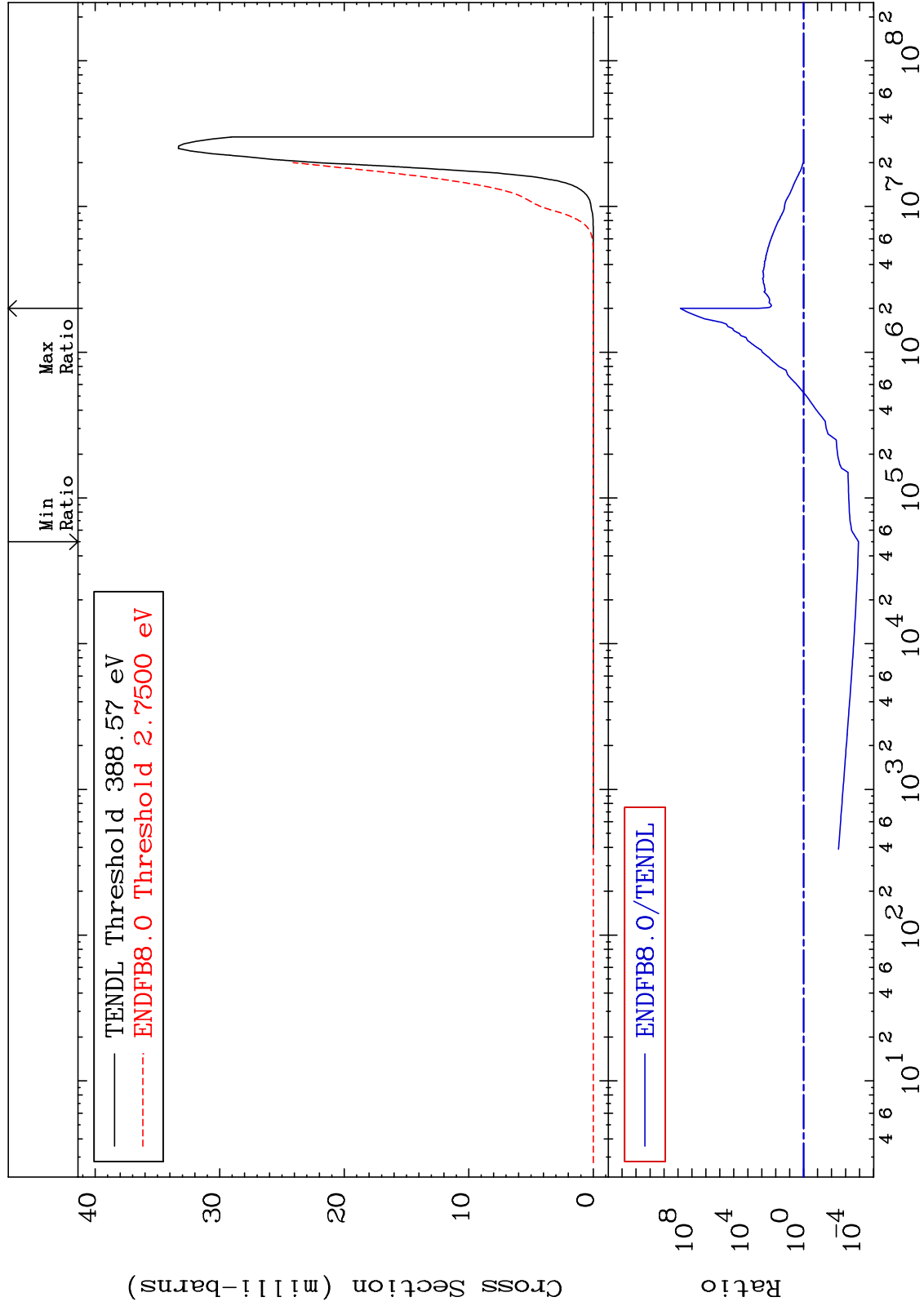
MAT 6619

(n, n')  $\alpha$

66-Dy-154

-99.99 To 9999. %

Cross Section



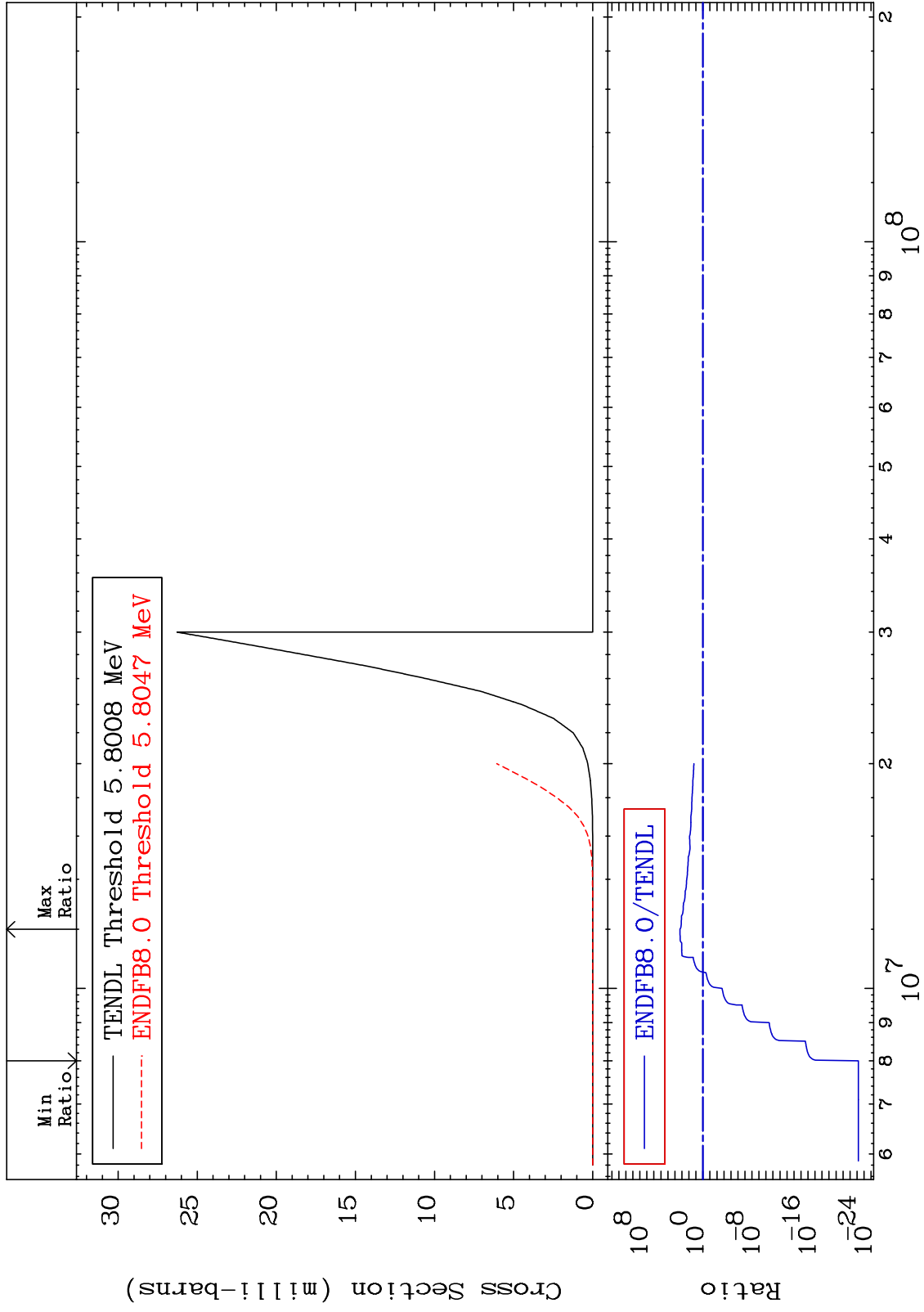
MAT 6619

(n,2n)  $\alpha$

66-Dy-154

Cross Section

-100.0 To 9999. %



66-Dy-154

Incident Energy (eV)

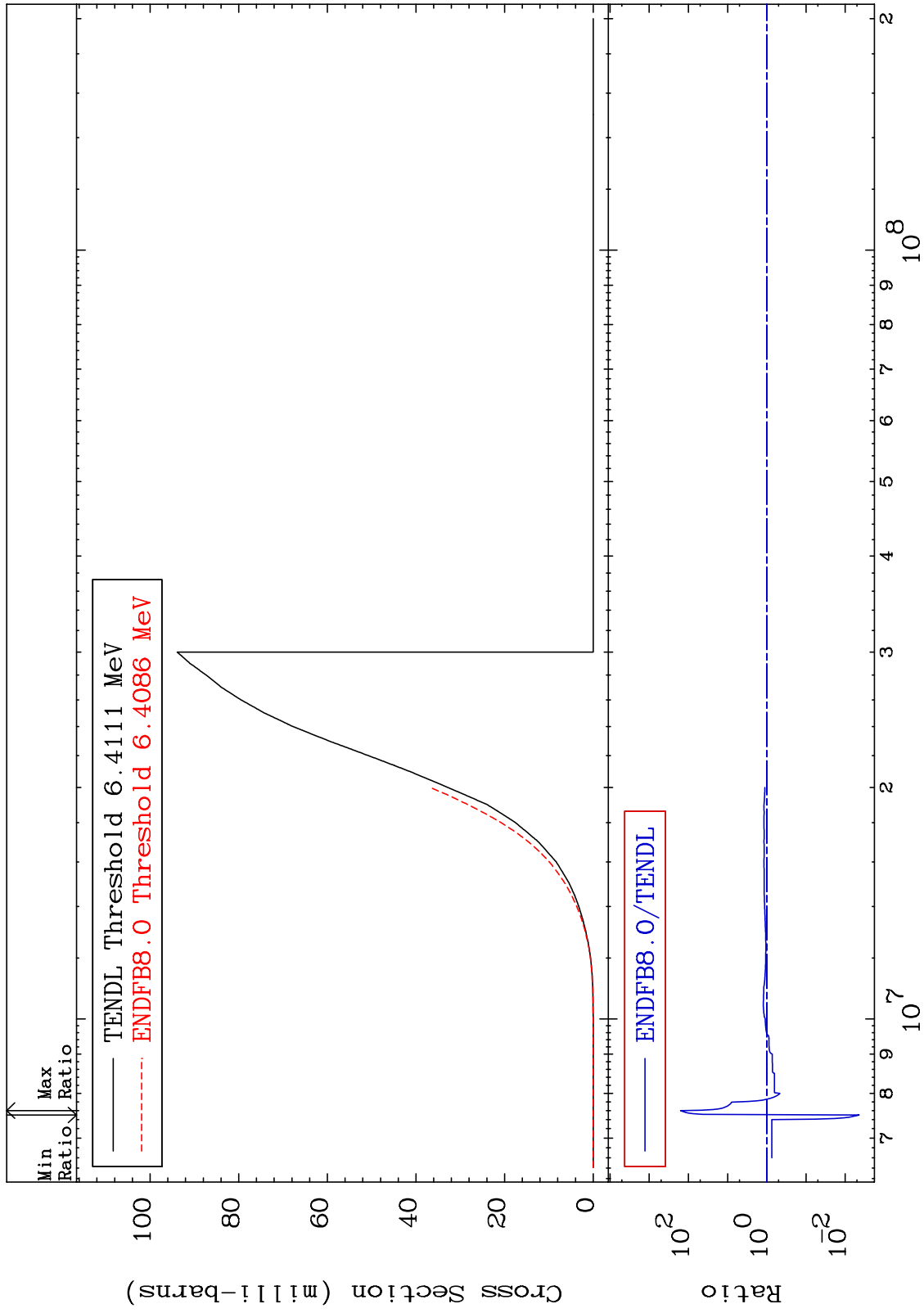
7



MAT 6619

(n,n') p  
Cross Section

66-Dy-154  
-99.56 To 9999. %



8

Incident Energy (eV)

66-Dy-154

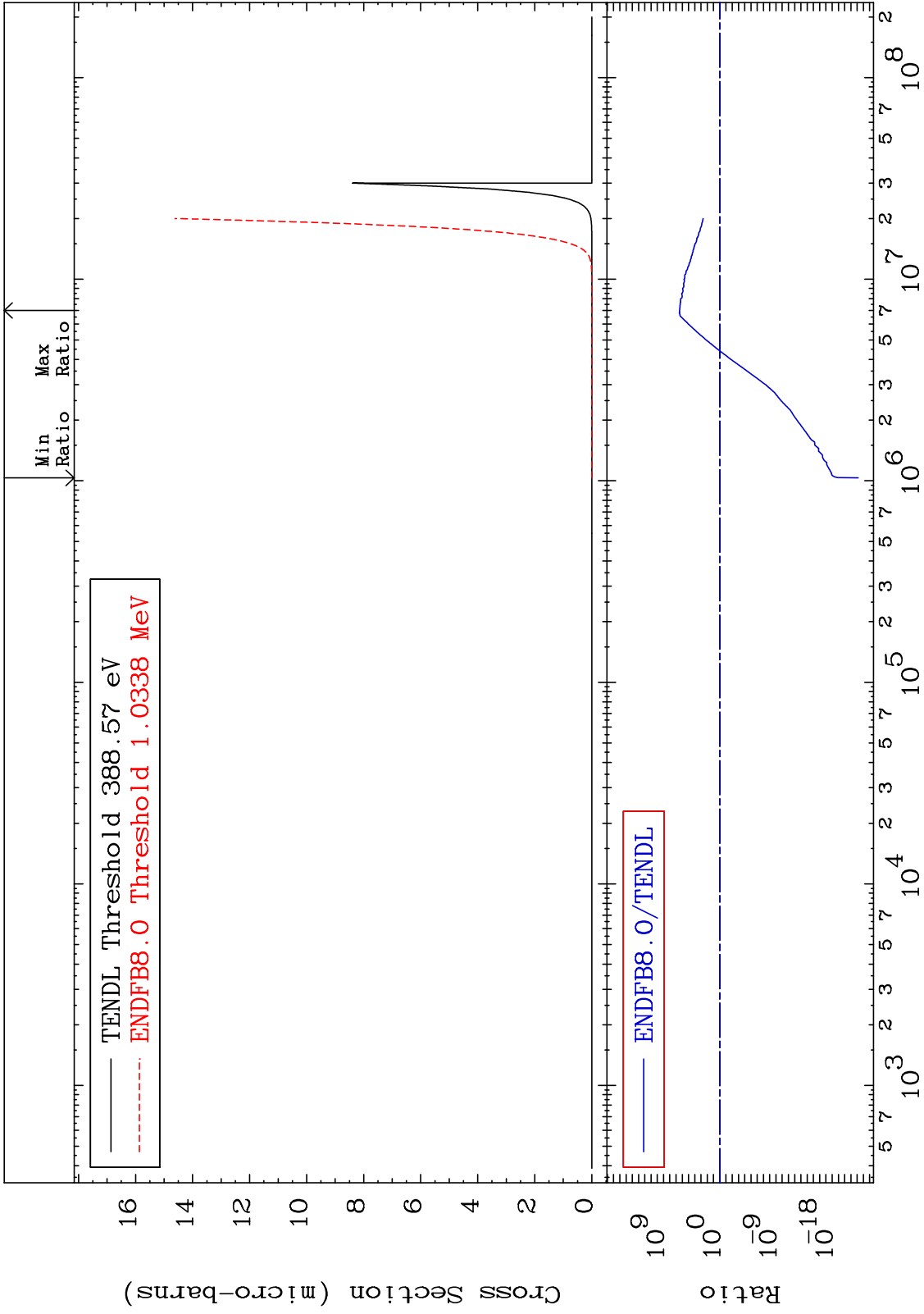
MAT 6619

(n, n')  $2\alpha$

66-Dy-154

Cross Section

-100.0 To 9999. %



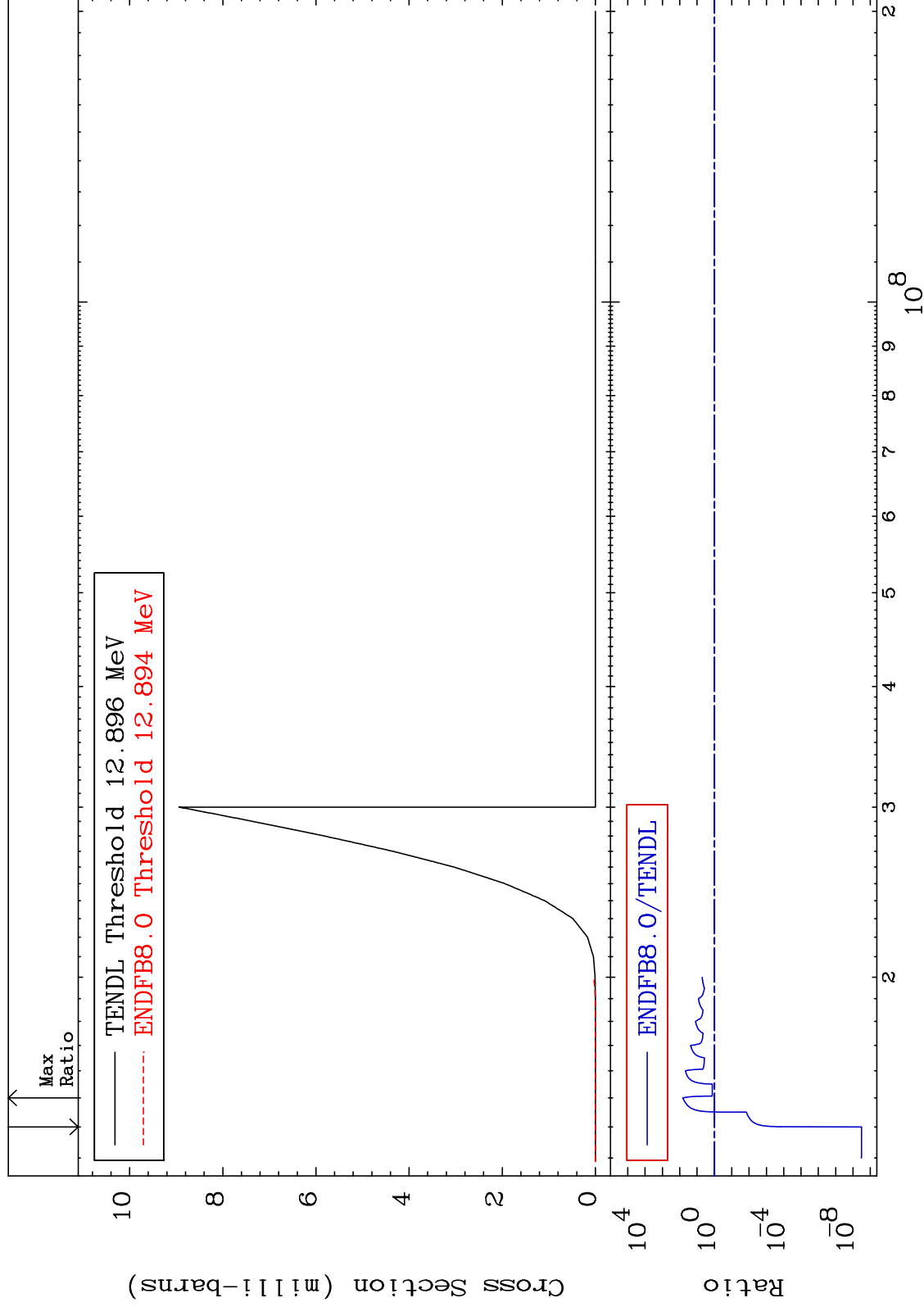
MAT 6619

(n,n') d

66-Dy-154

Cross Section

-100.0 To 6499. %



10

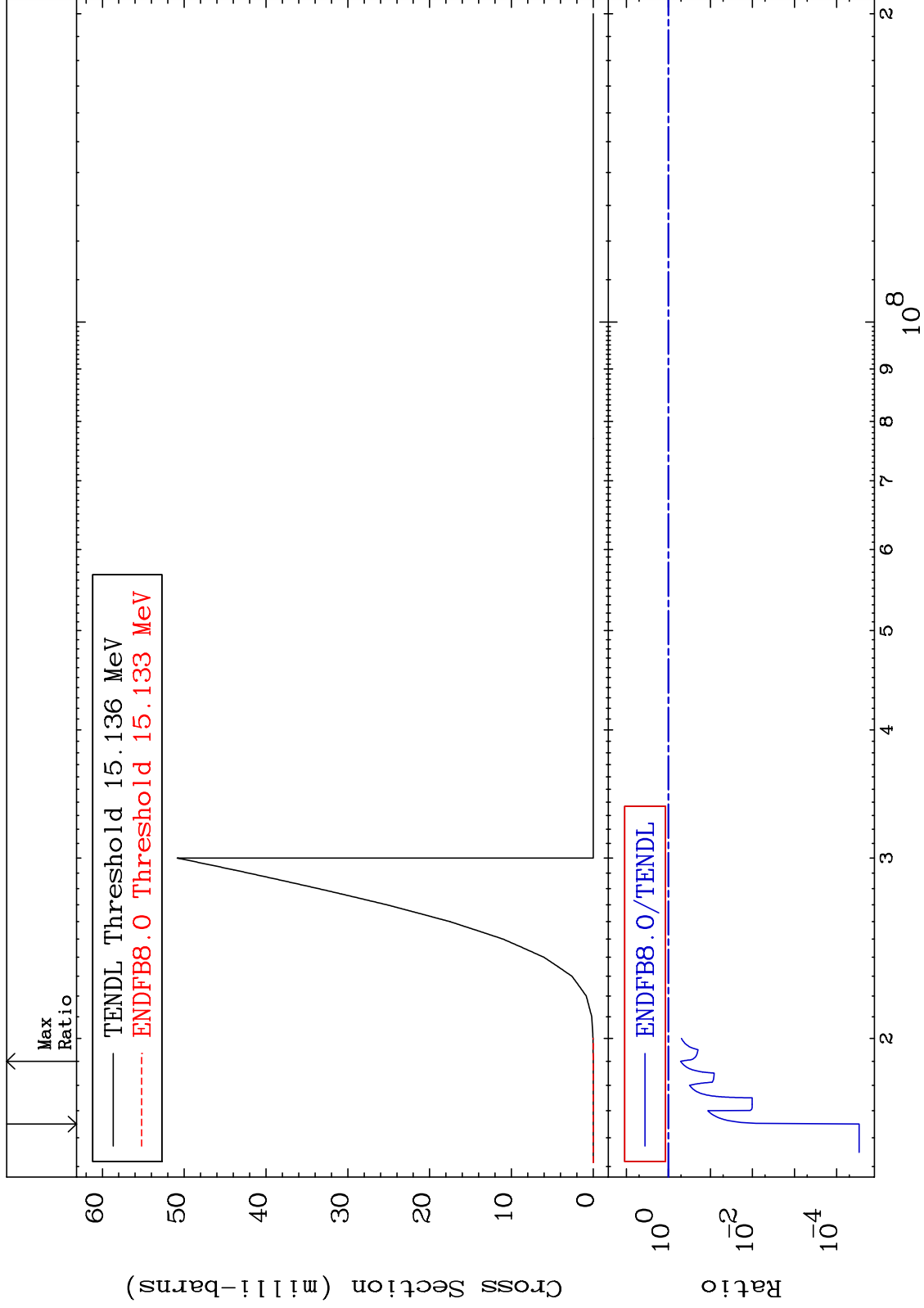
Incident Energy (eV)

66-Dy-154

MAT 6619

(n,2n) p  
Cross Section

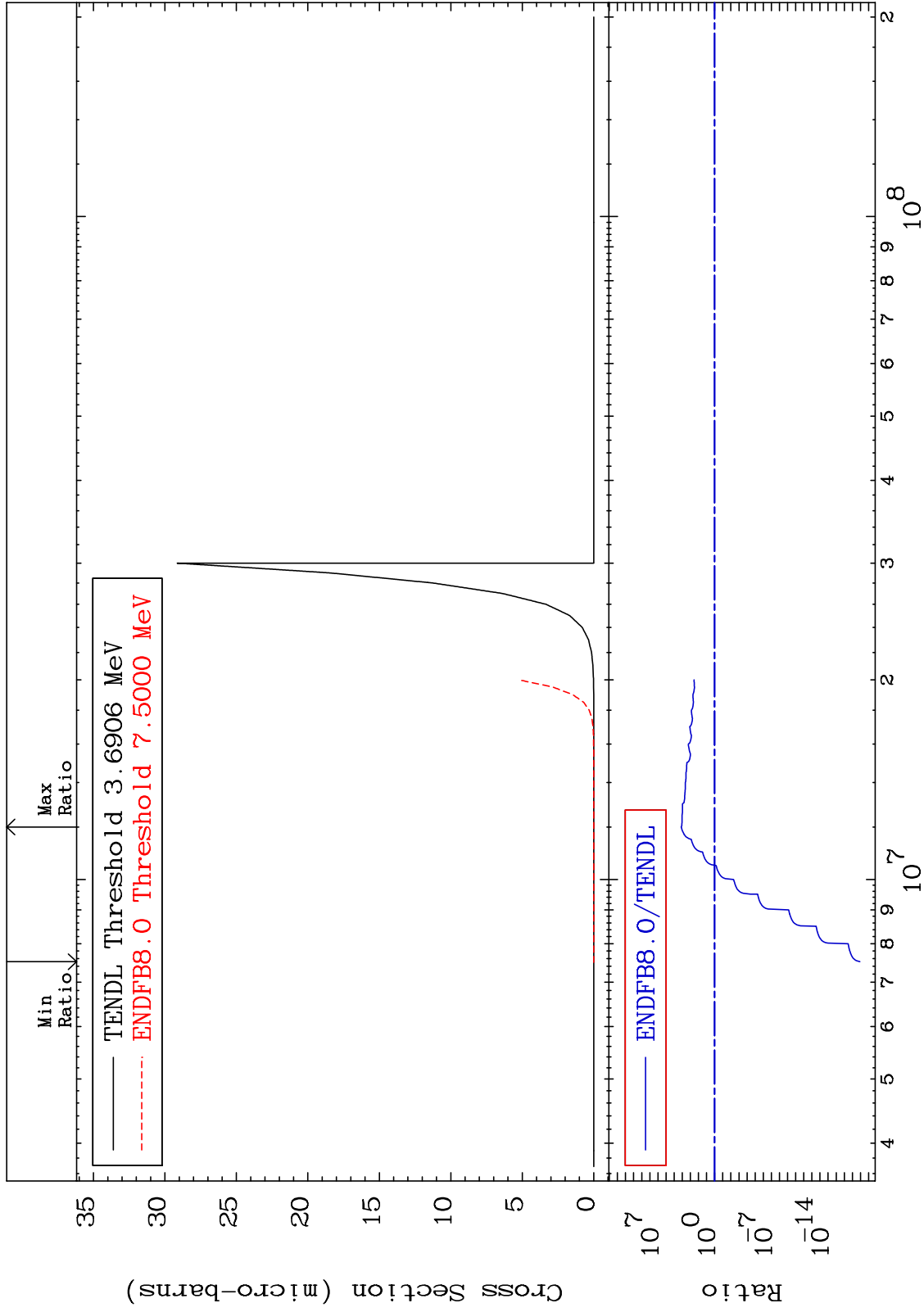
66-Dy-154  
-100.0 To -48.76%



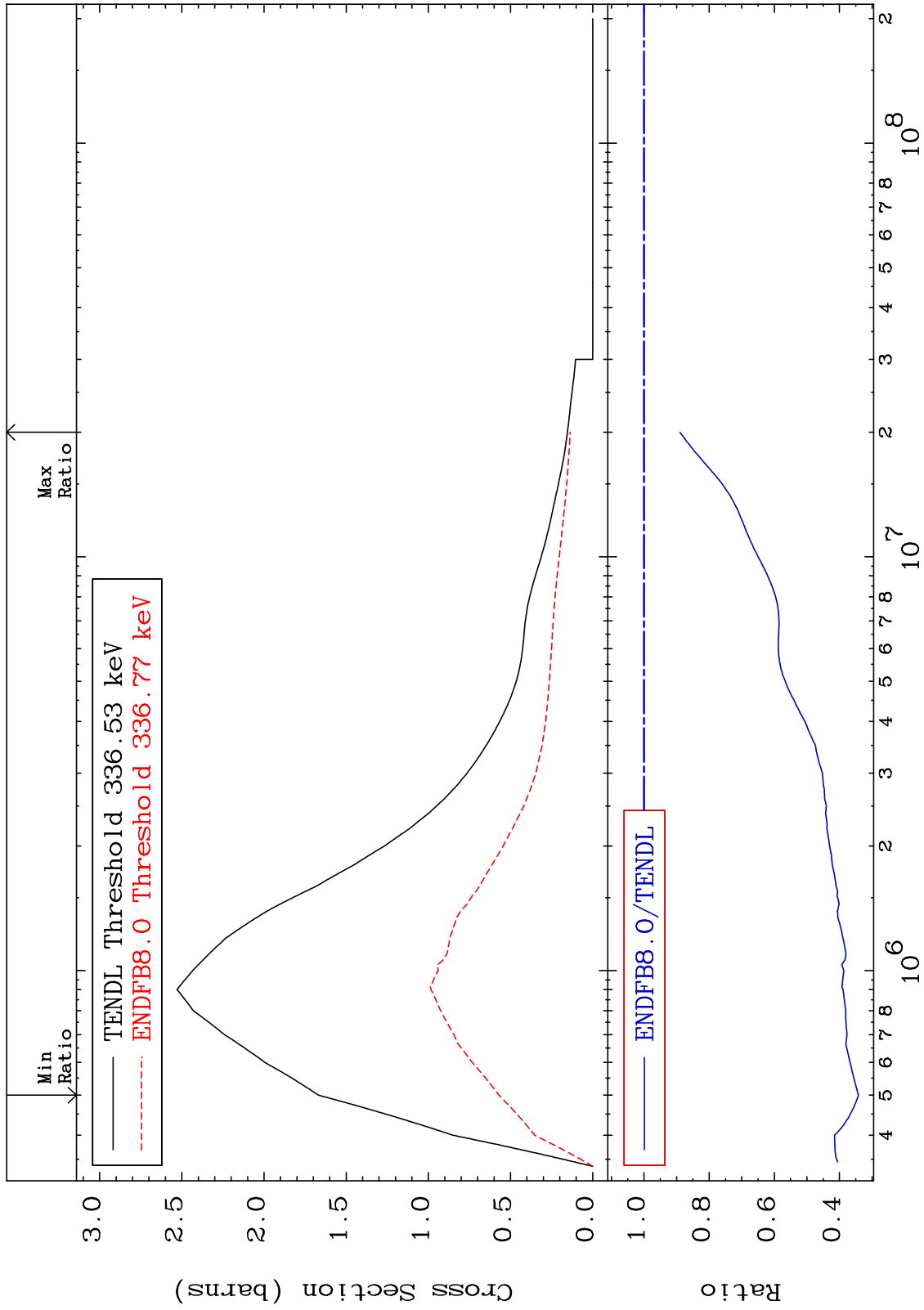
MAT 6619

(n,n') p  $\alpha$   
Cross Section

66-Dy-154  
-100.0 To 9999. %



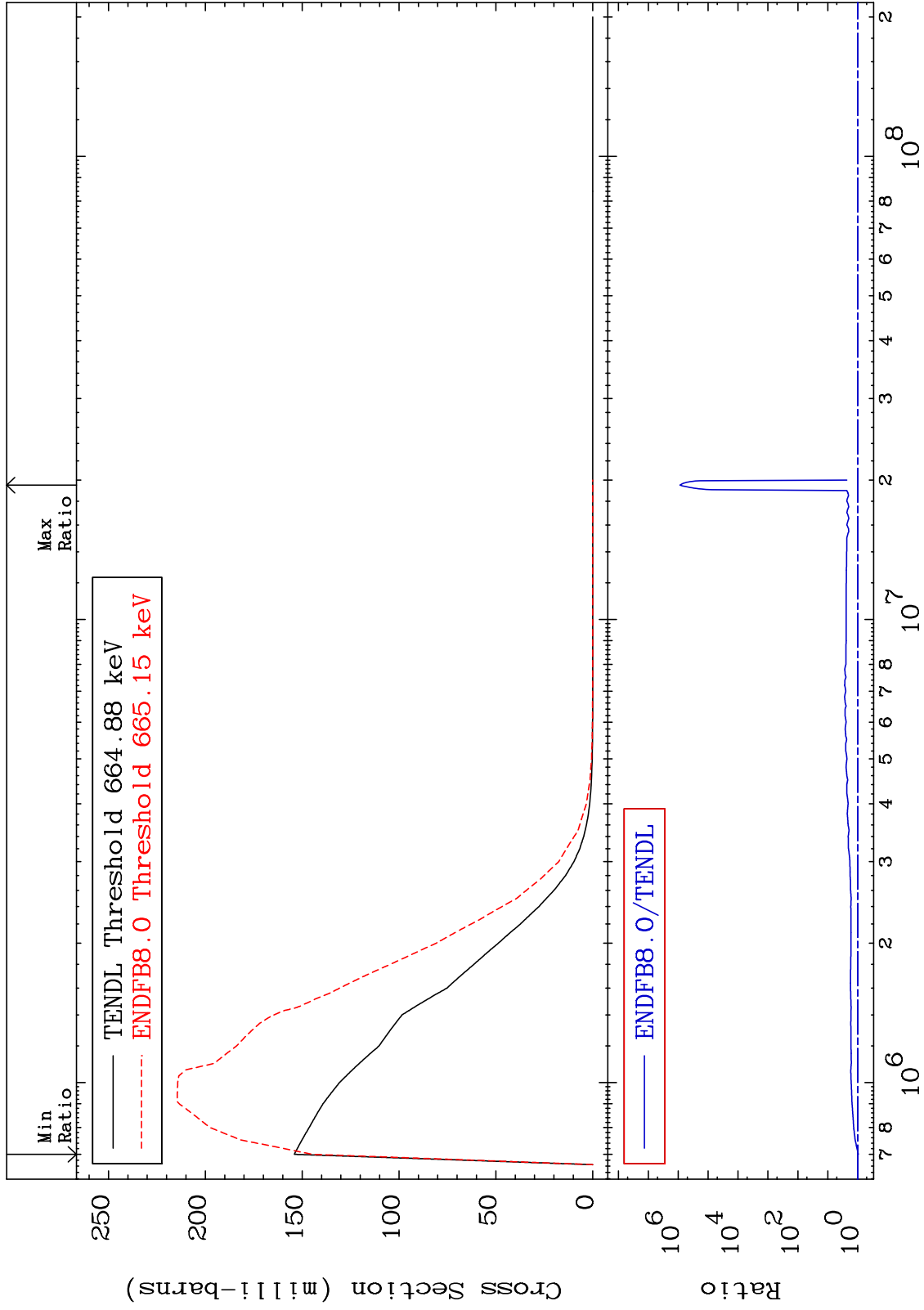
MAT 6619 MT= 51 (n,n') Level Cross Section 66-Dy-154 -65.83 To -11.06%



MAT 6619

MT= 52 (n,n') Level  
Cross Section

66-Dy-154  
-5.934 To 9999. %



14

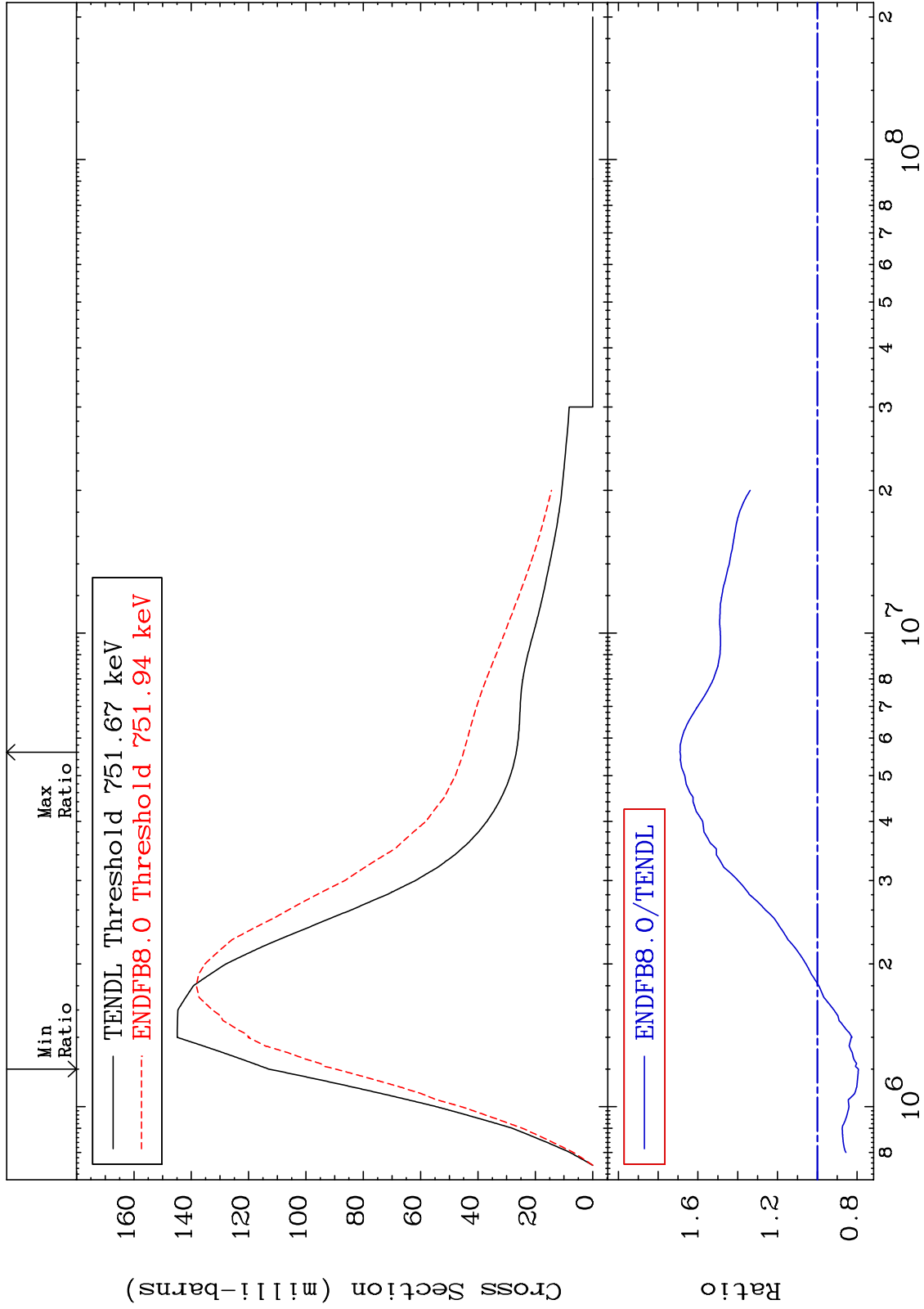
Incident Energy (eV)

66-Dy-154

MAT 6619

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

66-Dy-154  
-20.64 To 69.00 %



15

Incident Energy (eV)

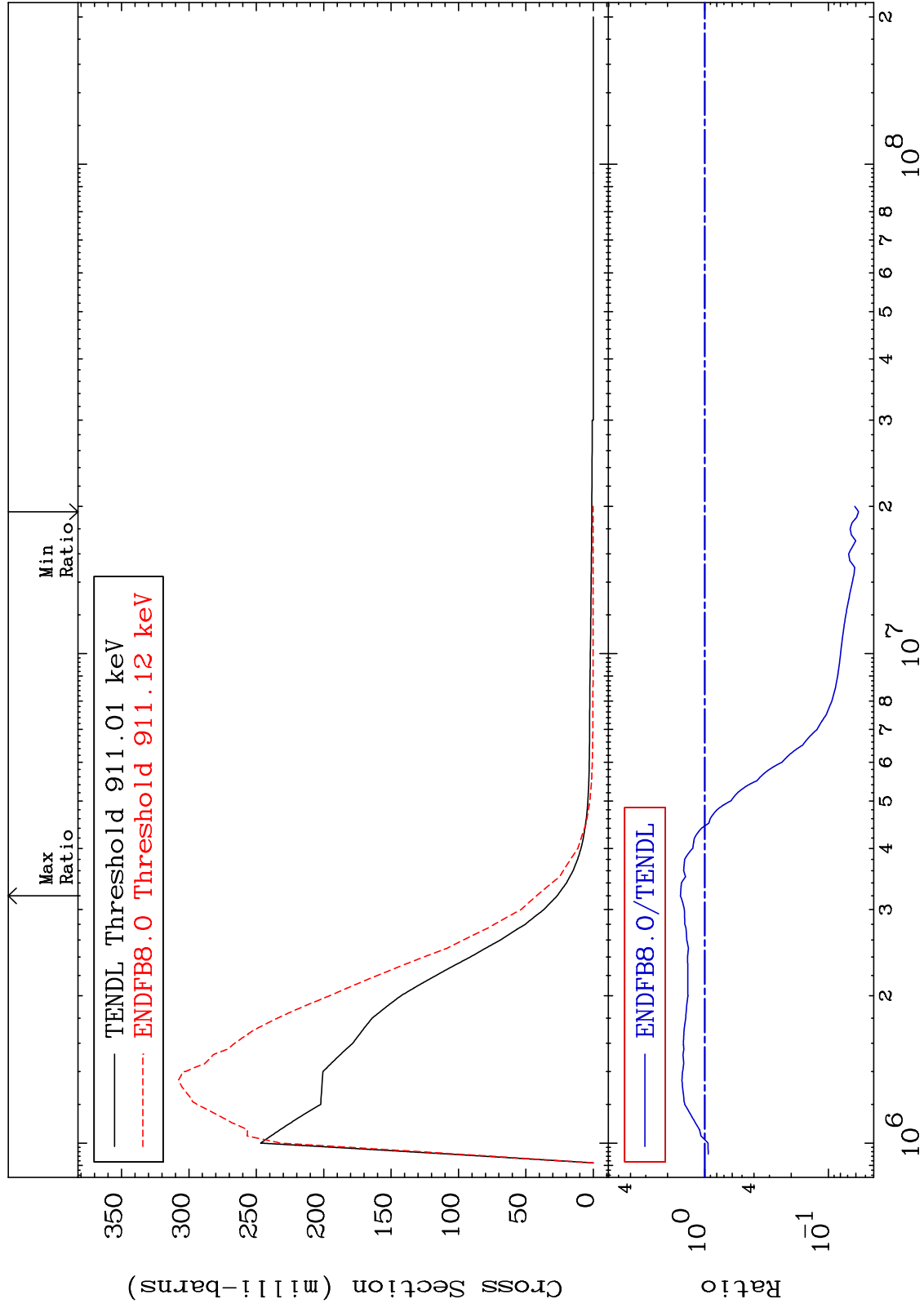
66-Dy-154



MAT 6619

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

66-Dy-154  
-94.30 To 57.45 %



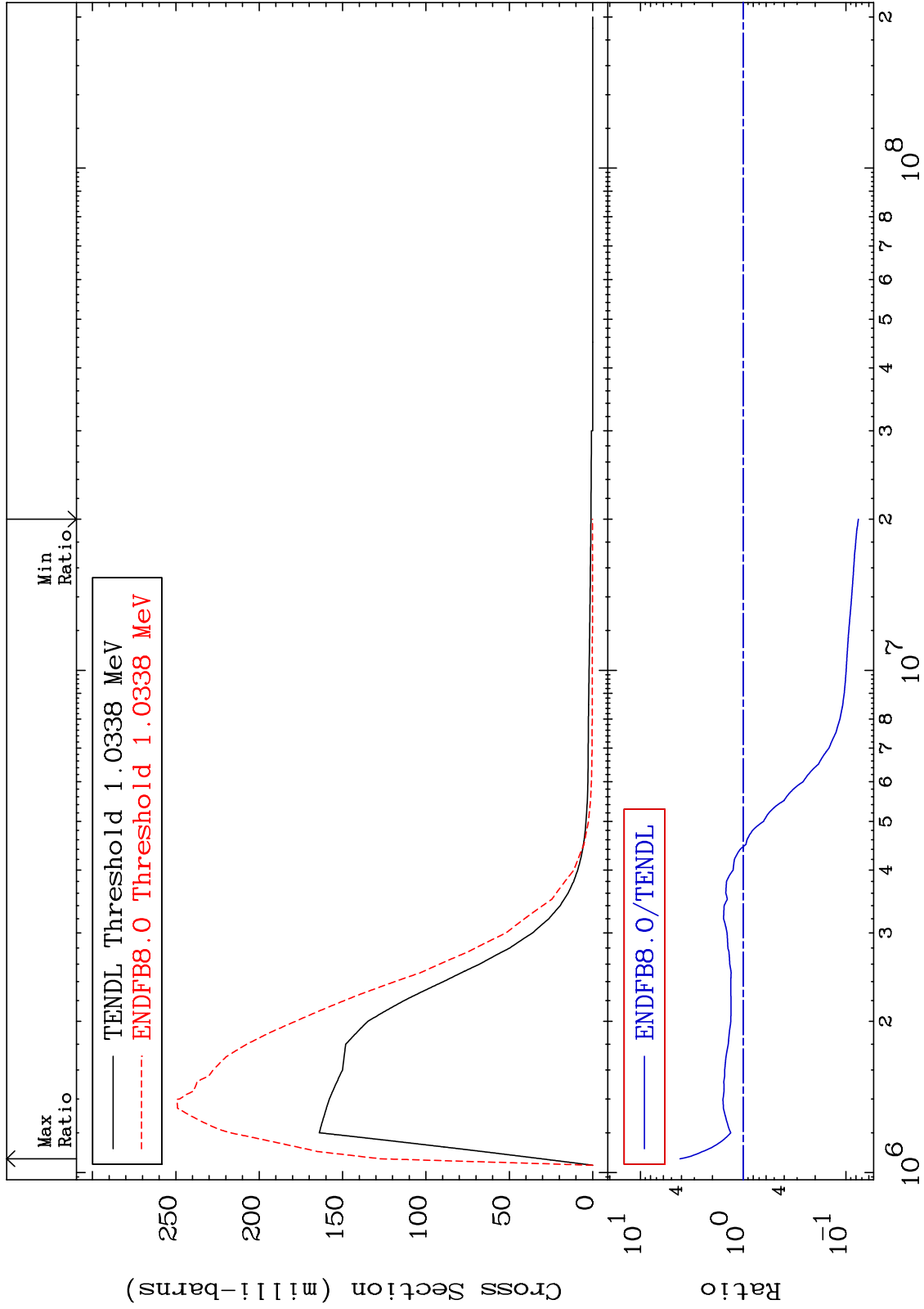
Incident Energy (eV)

66-Dy-154

MAT 6619

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

66-Dy-154  
-92.43 To 312.9 %

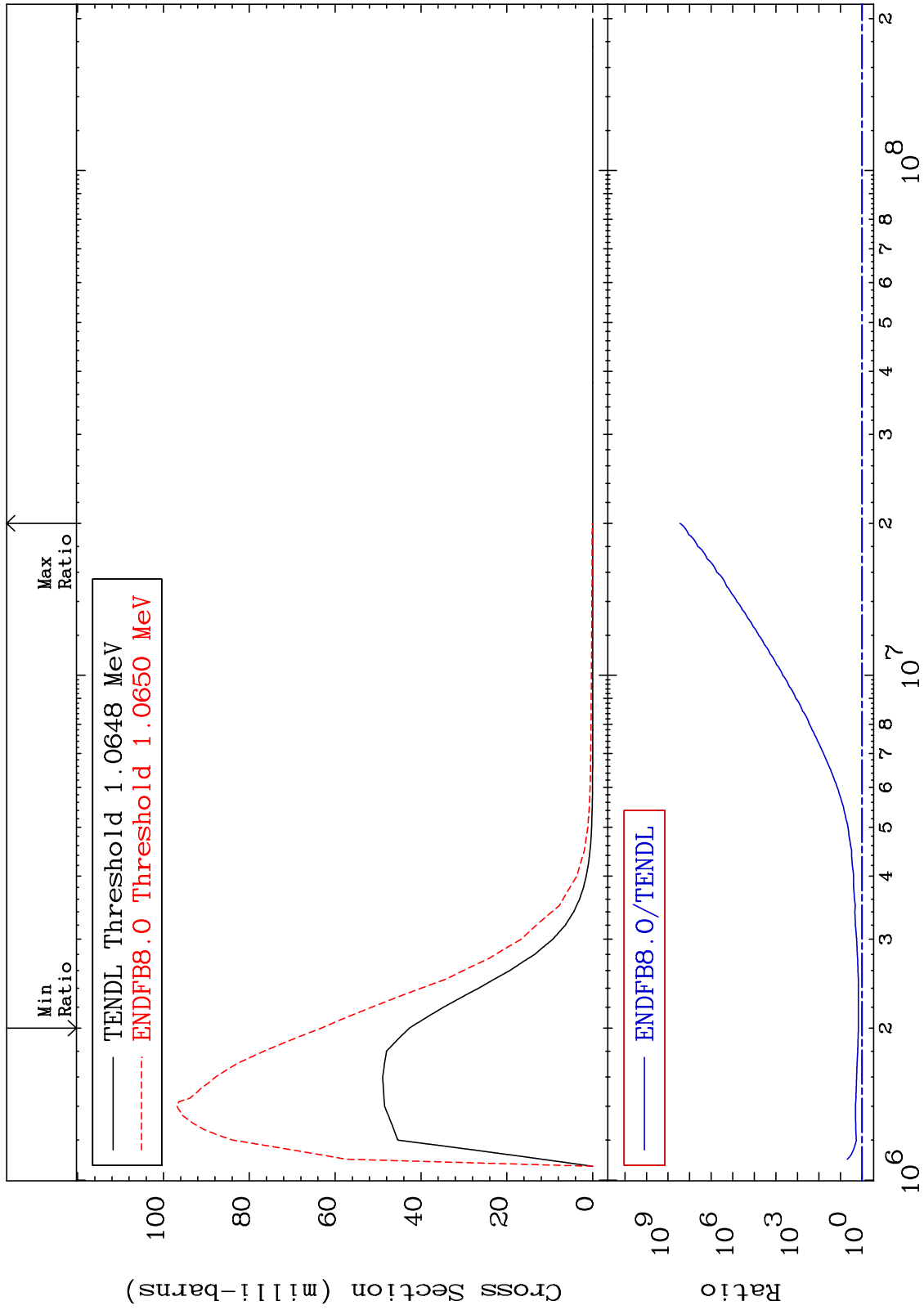


17

Incident Energy (eV)

66-Dy-154

MAT 6619 MT= 56 (n, n') Level Cross Section 66-Dy-154 48.01 To 9999. %

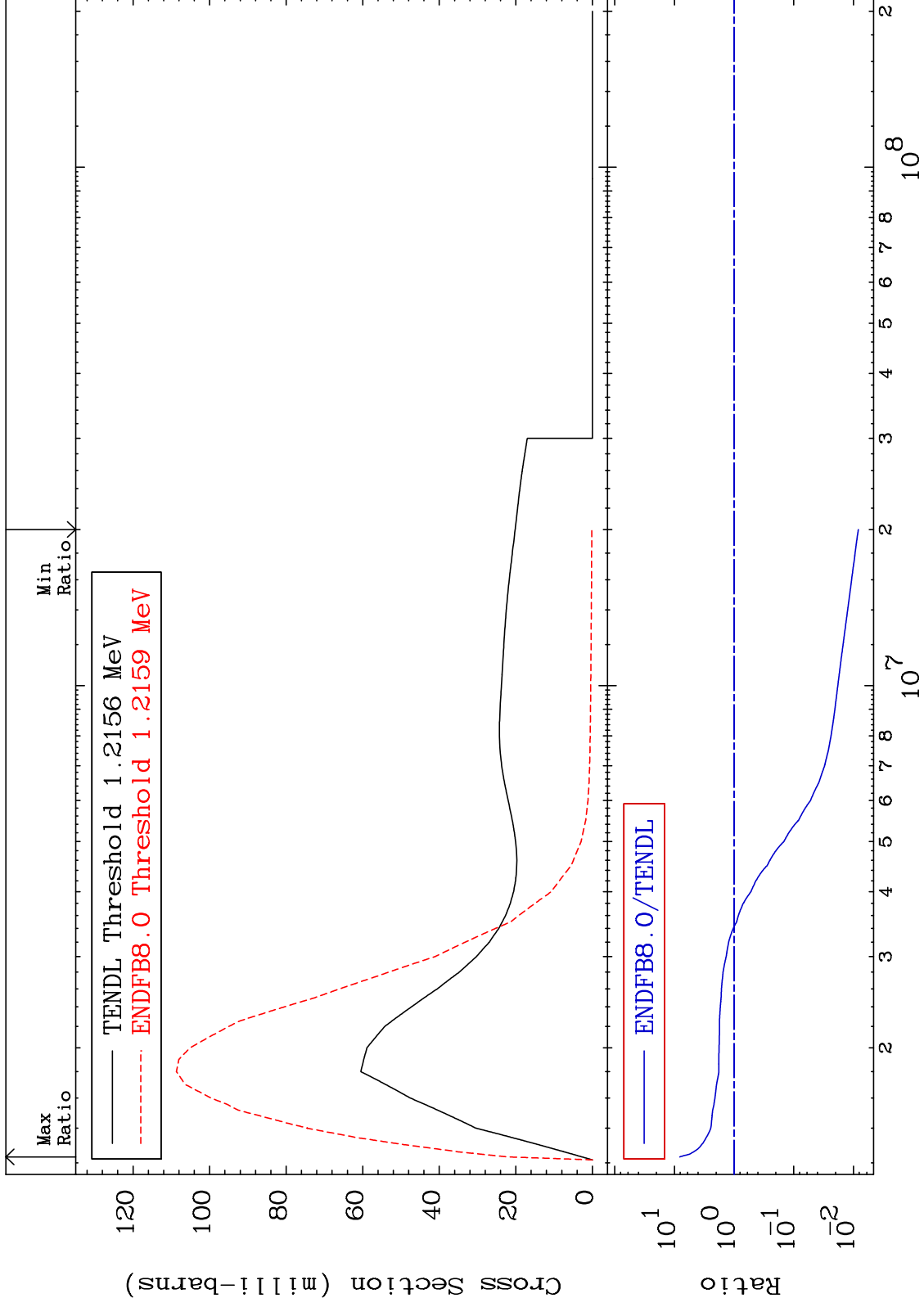


Incident Energy (eV) 66-Dy-154

MAT 6619

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

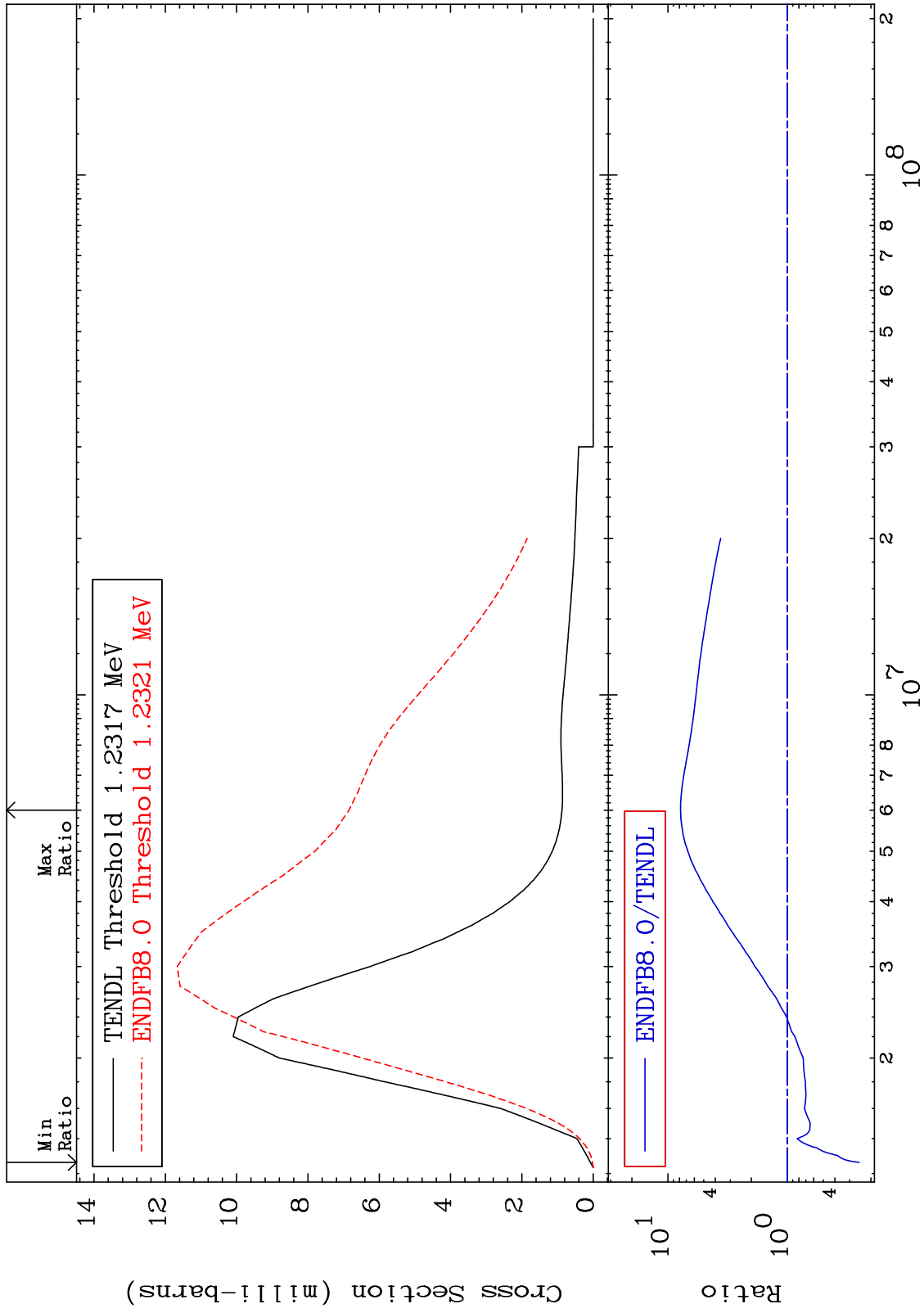
66-Dy-154  
-99.17 To 711.9 %



MAT 6619

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

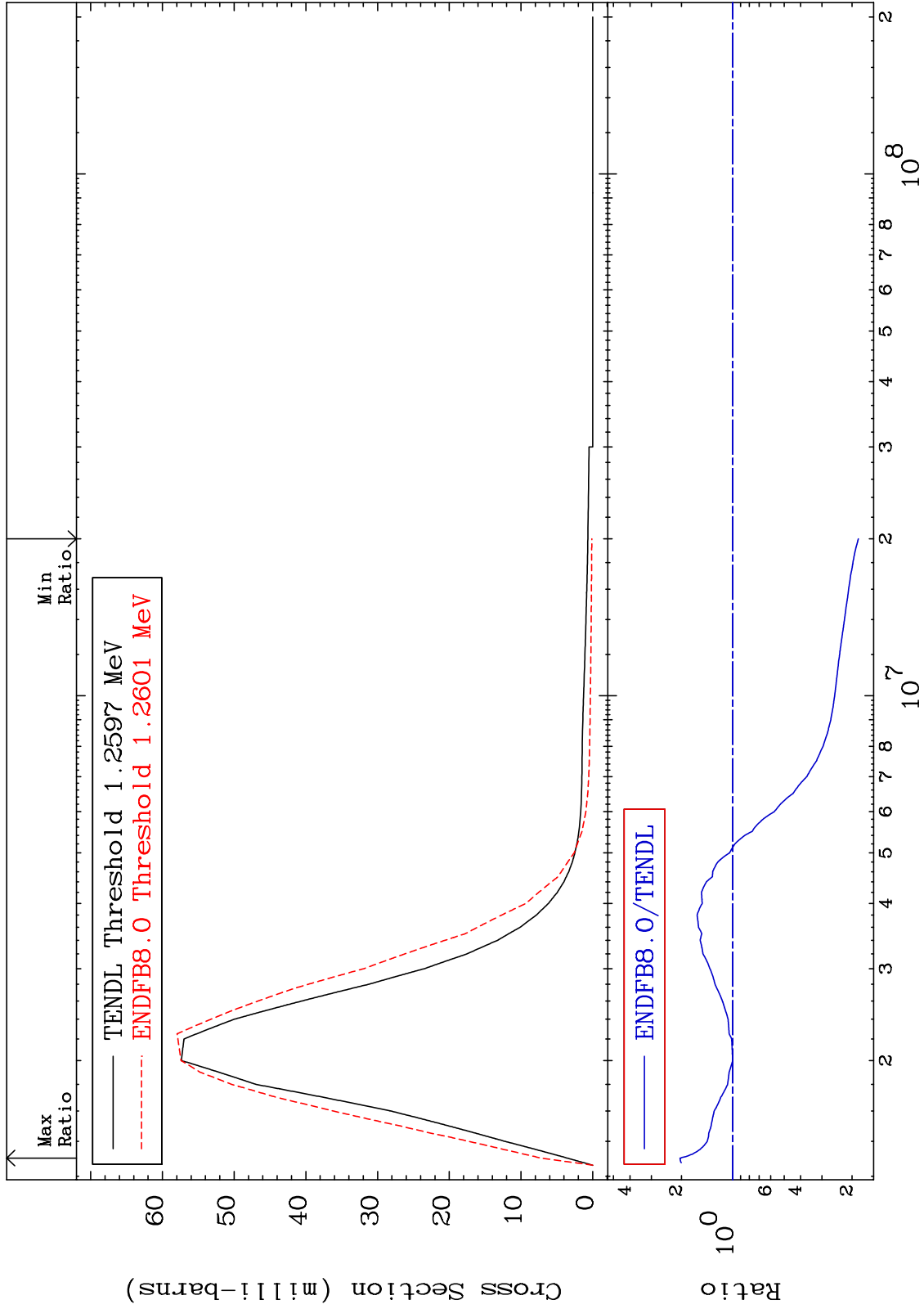
66-Dy-154  
-74.97 To 681.0 %



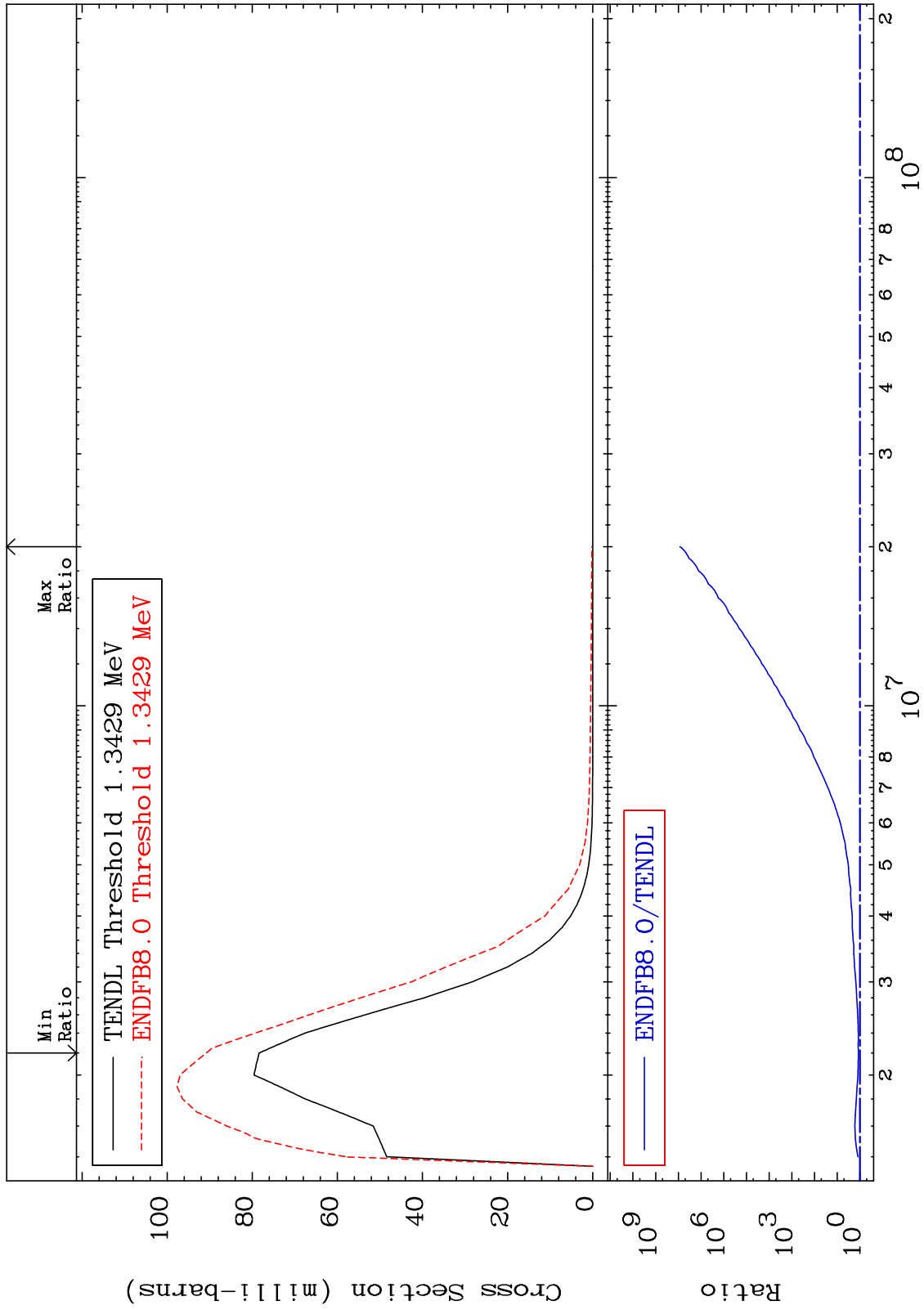
MAT 6619

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

66-Dy-154  
-81.66 To 103.7 %



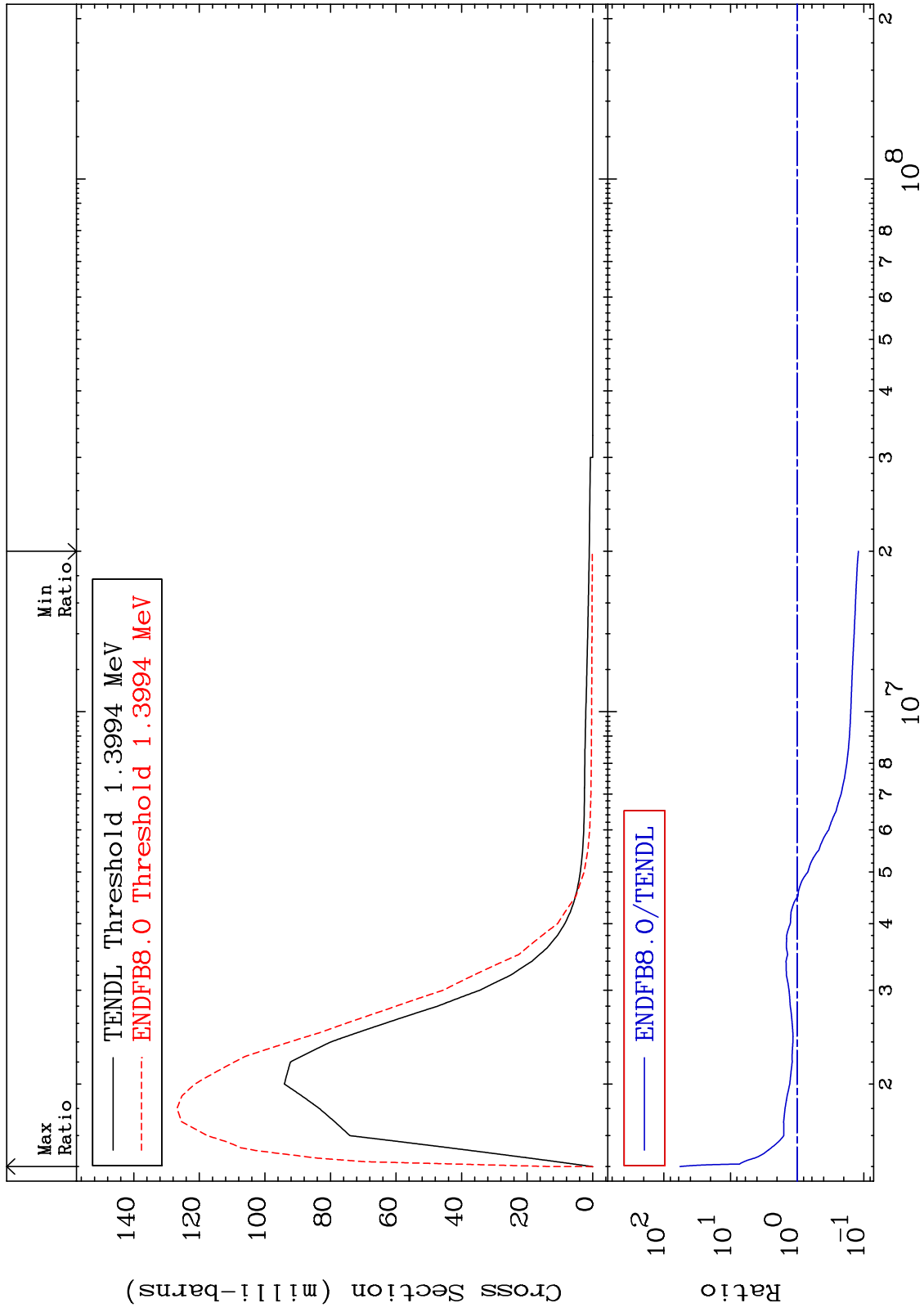
MAT 6619 MT= 60 (n,n') Level Cross Section 66-Dy-154  
 15.87 To 9999. %



MAT 6619

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

66-Dy-154  
-87.98 To 5628. %

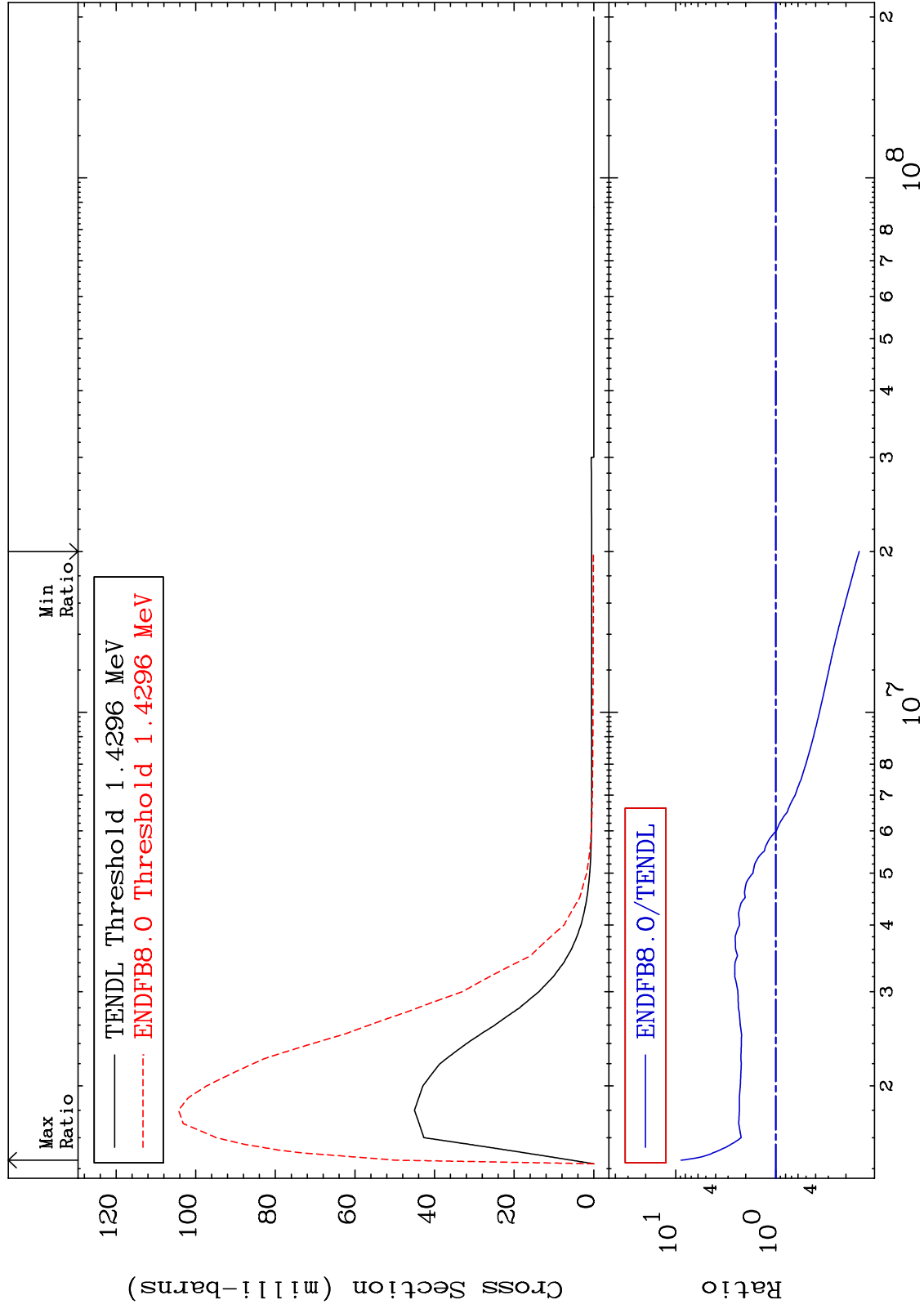




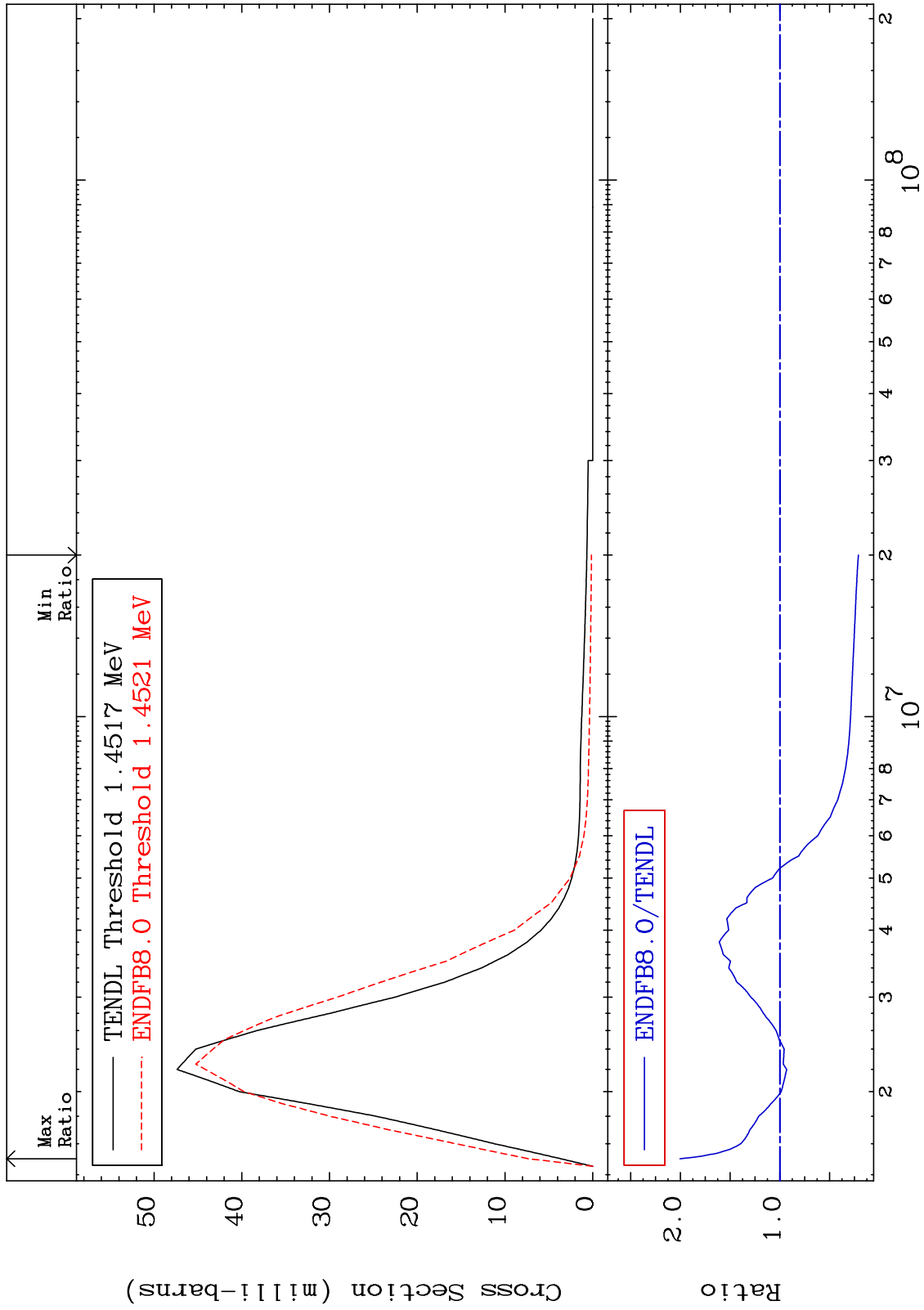
MAT 6619

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

66-Dy-154  
-85.32 To 785.1 %



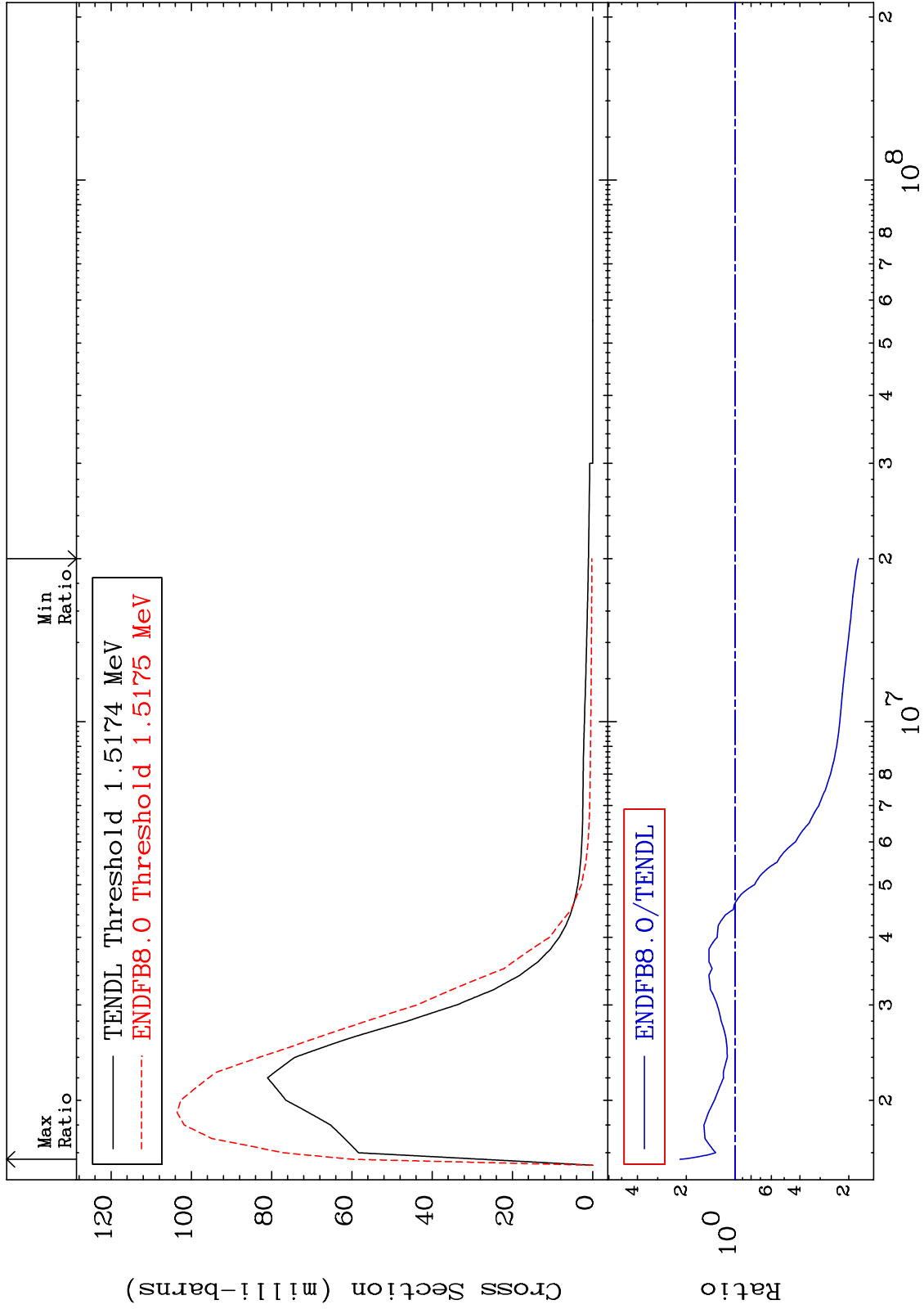
MAT 6619 MT= 63 (n,n') Level Cross Section 66-Dy-154  
 -79.02 To 100.4 %



MAT 6619

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

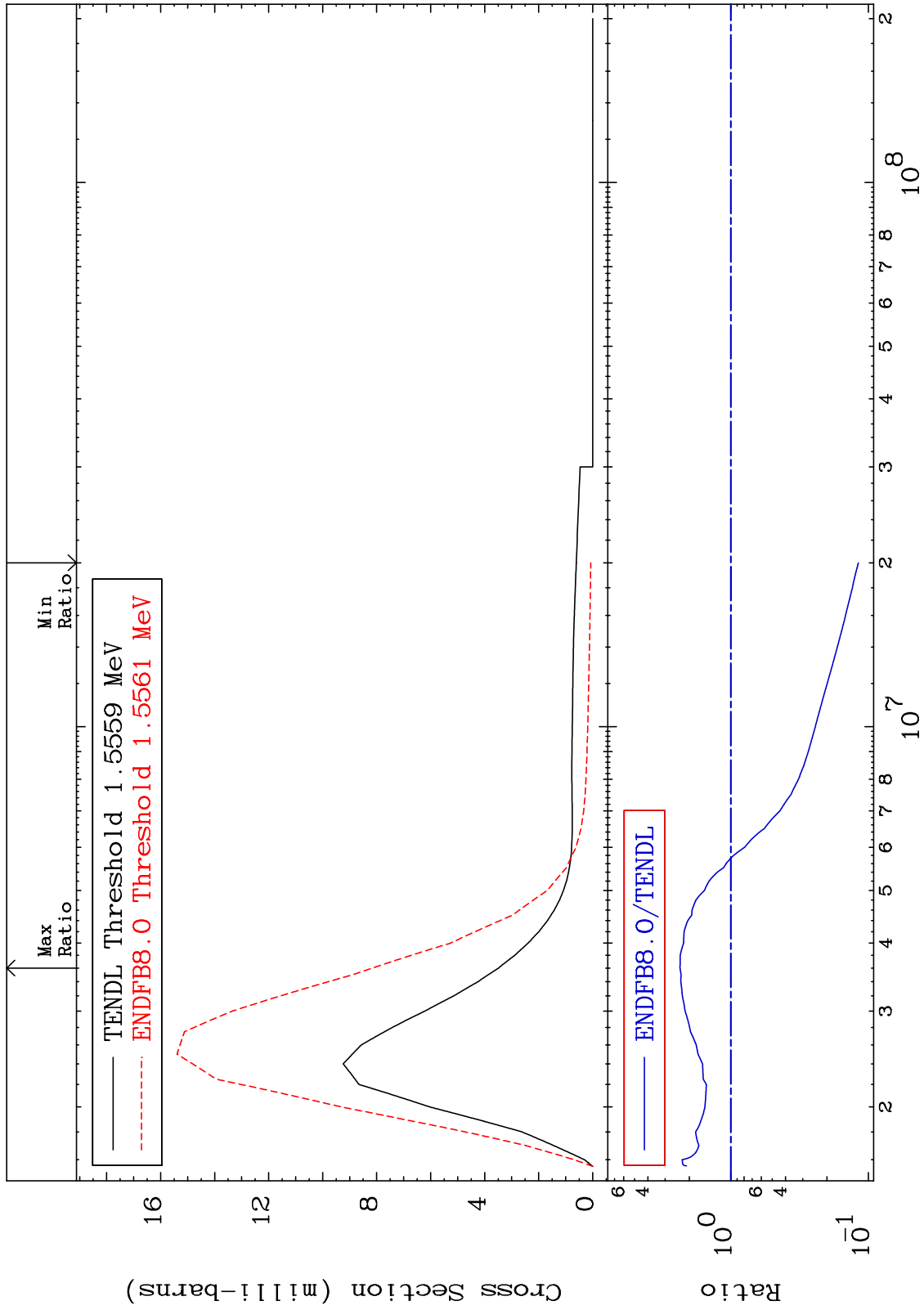
66-Dy-154  
-82.56 To 118.7 %



MAT 6619

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

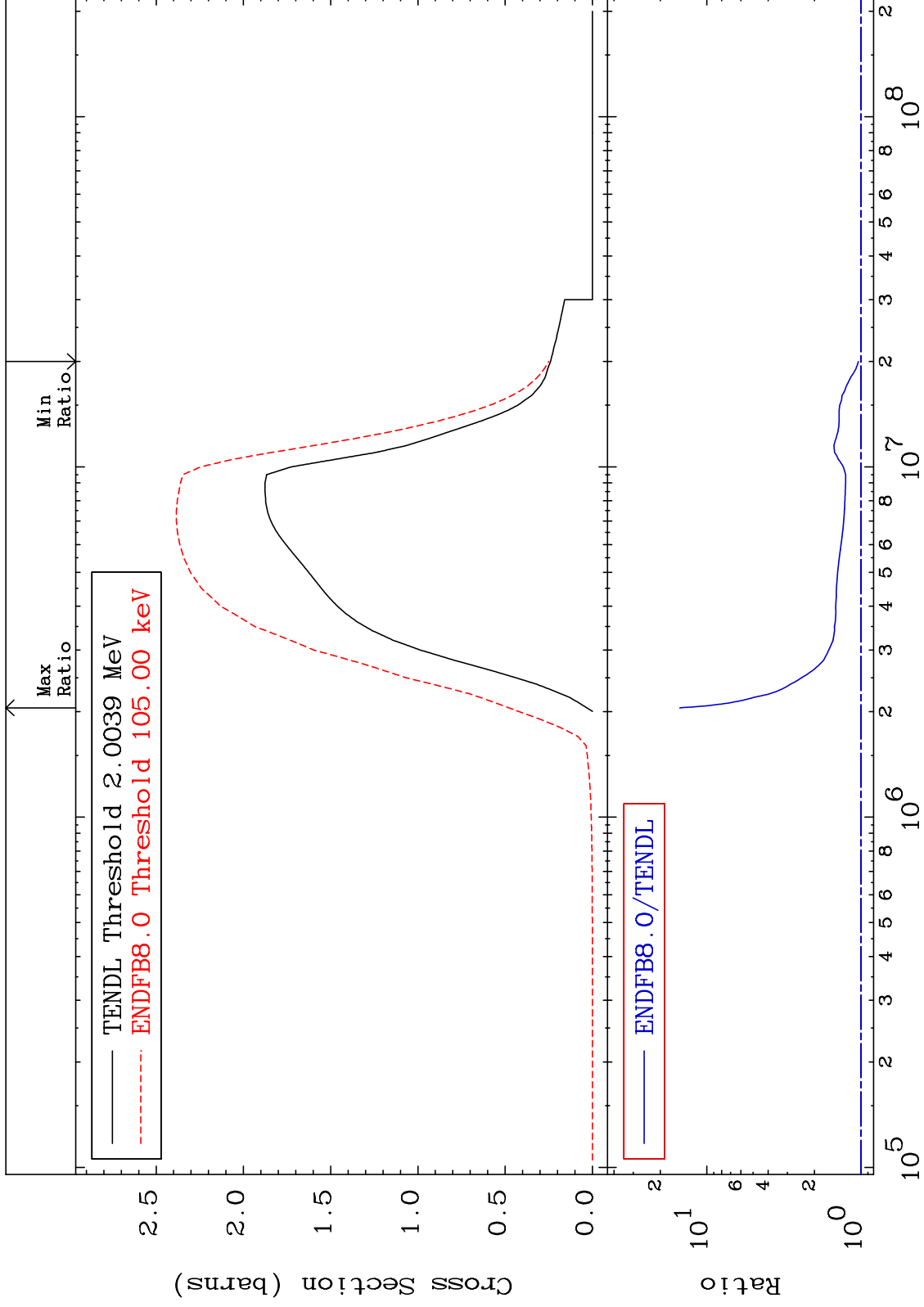
66-Dy-154  
-88.17 To 133.7 %



MAT 6619

(n, n') Continuum  
Cross Section

66-Dy-154  
3.919 To 1396. %



Incident Energy (eV)

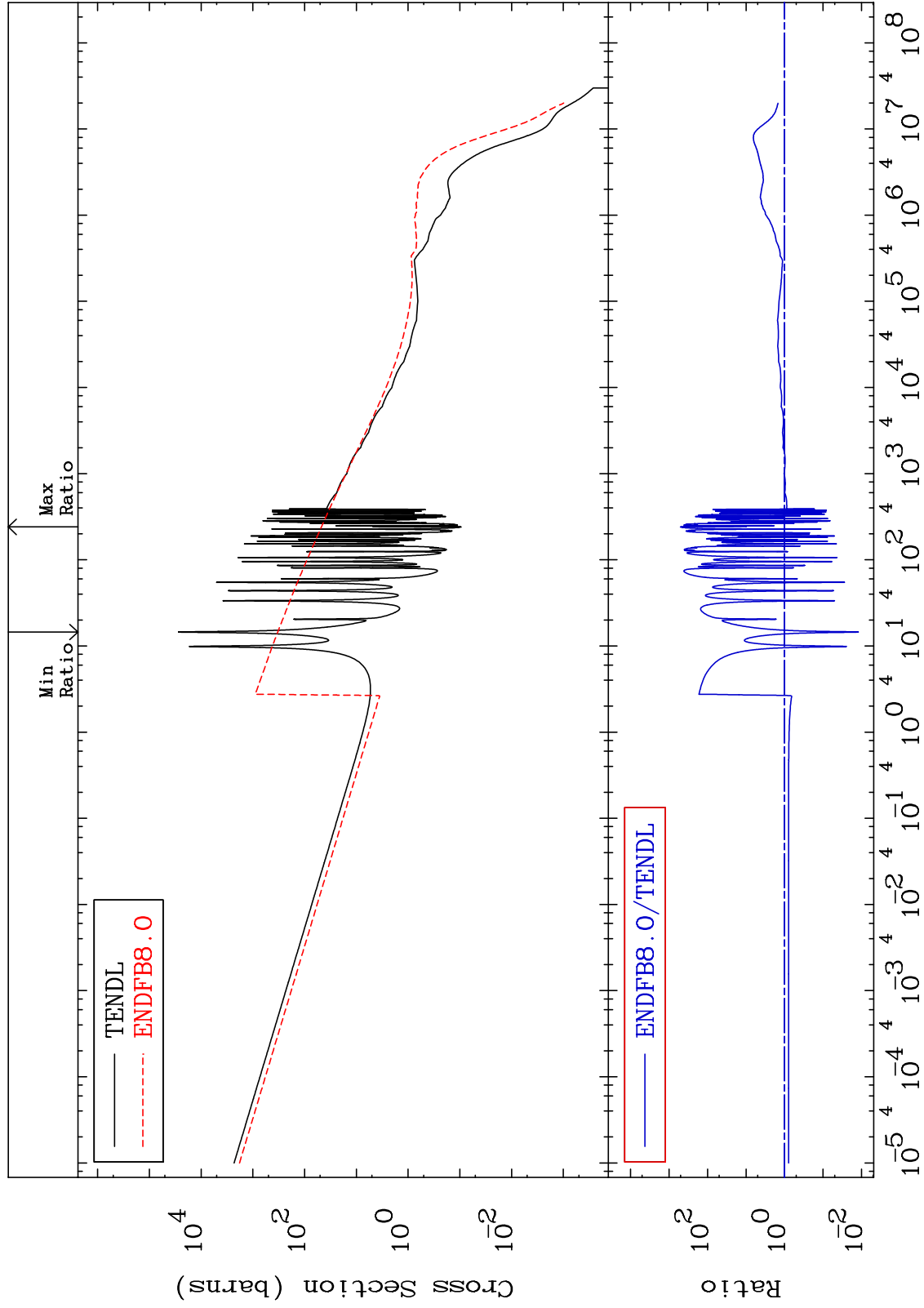
66-Dy-154

28

MAT 6619

66-Dy-154  
-98.80 To 9999. %

(n,  $\gamma$ )  
Cross Section



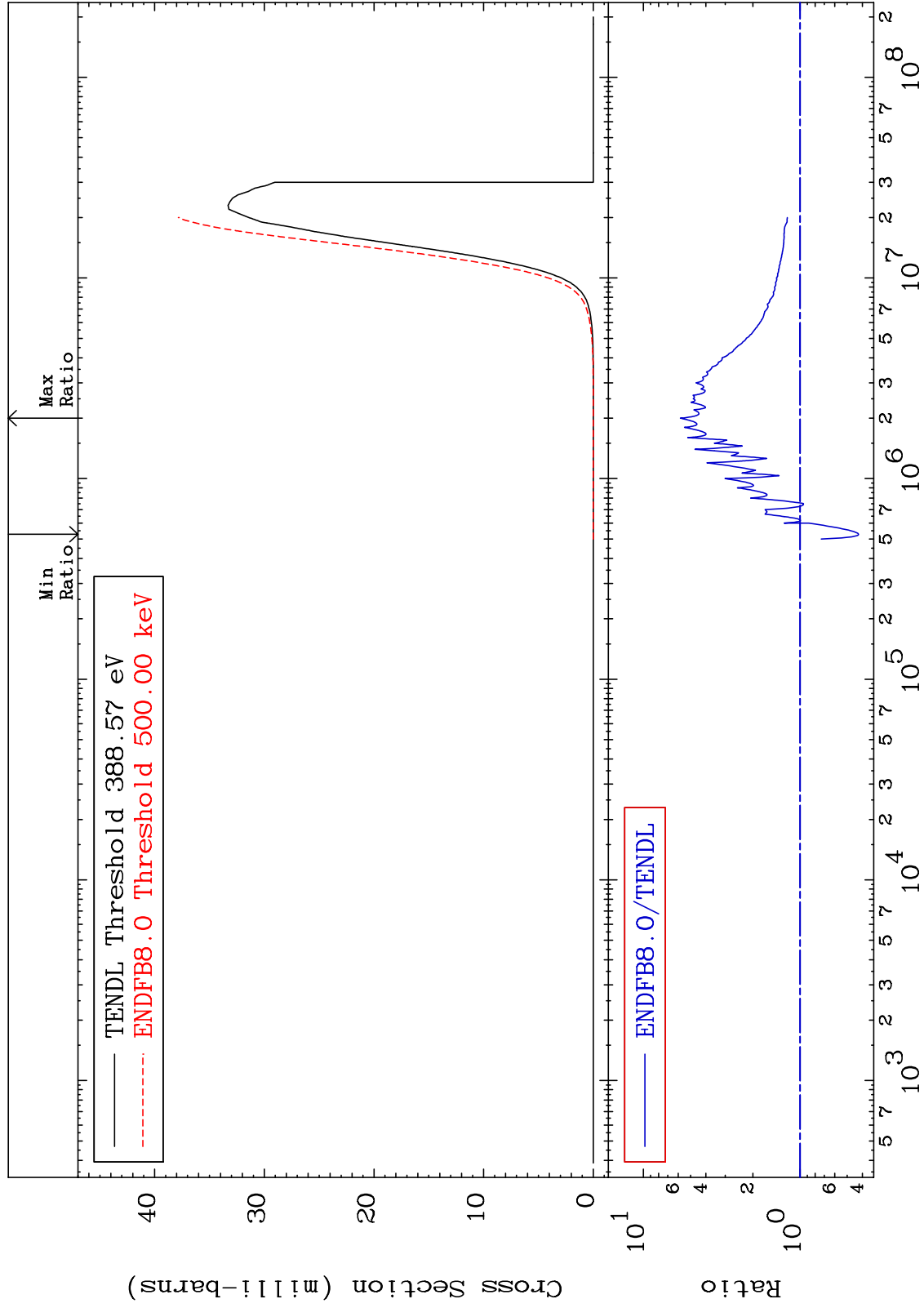
MAT 6619

(n, p)

66-Dy-154

Cross Section

-57.67 To 480.3 %



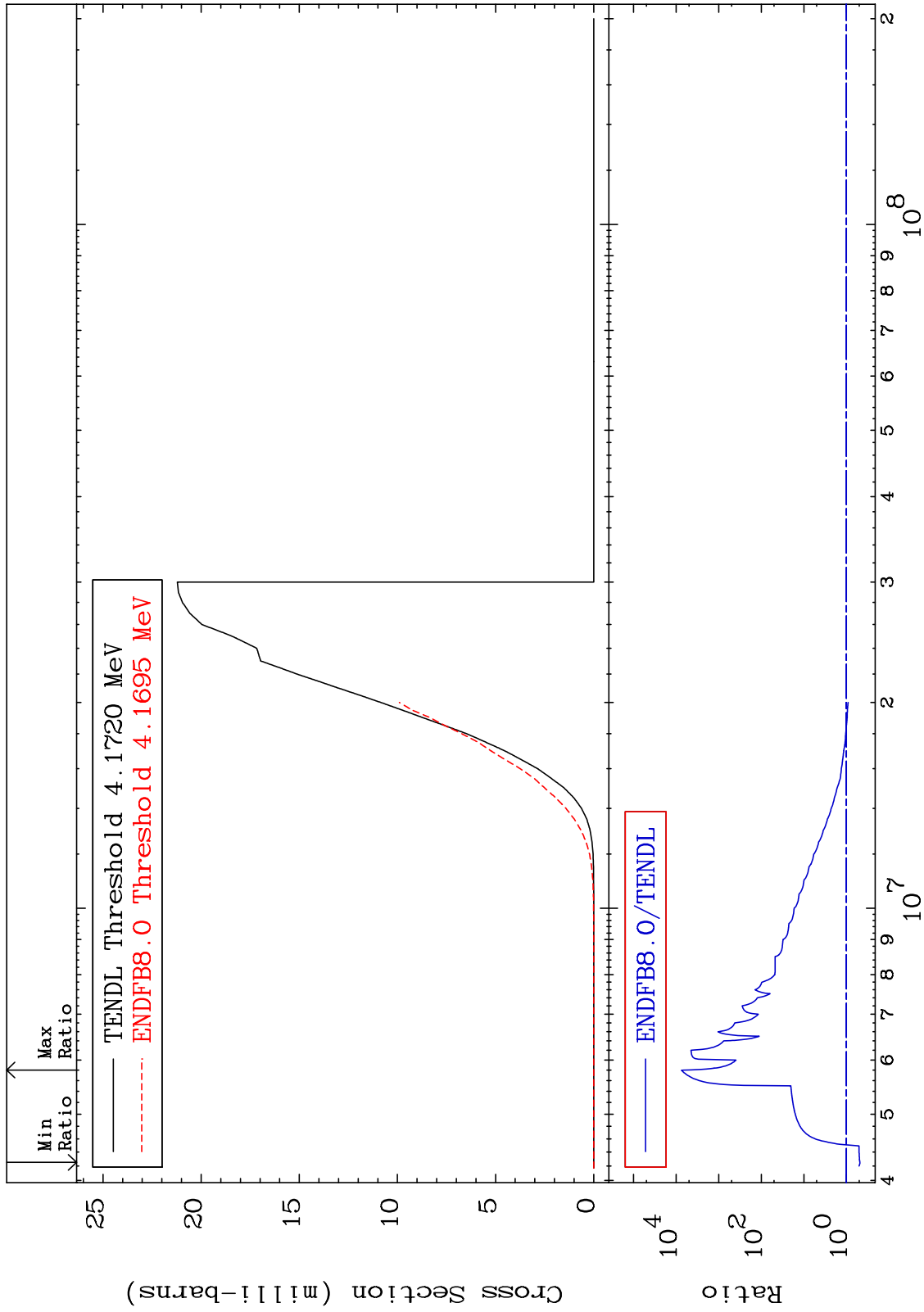
MAT 6619

(n,d)

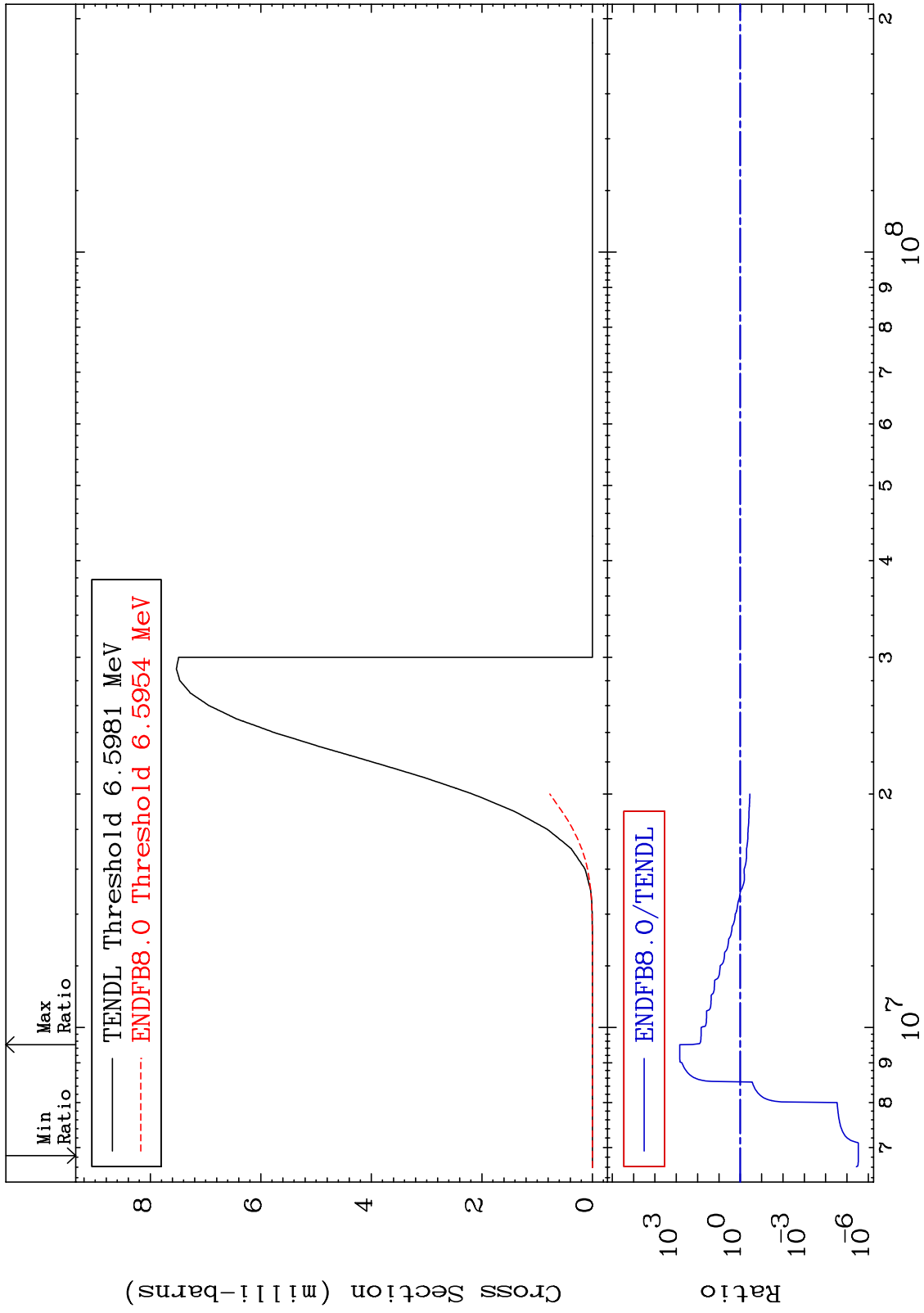
66-Dy-154

Cross Section

-51.91 To 9999. %







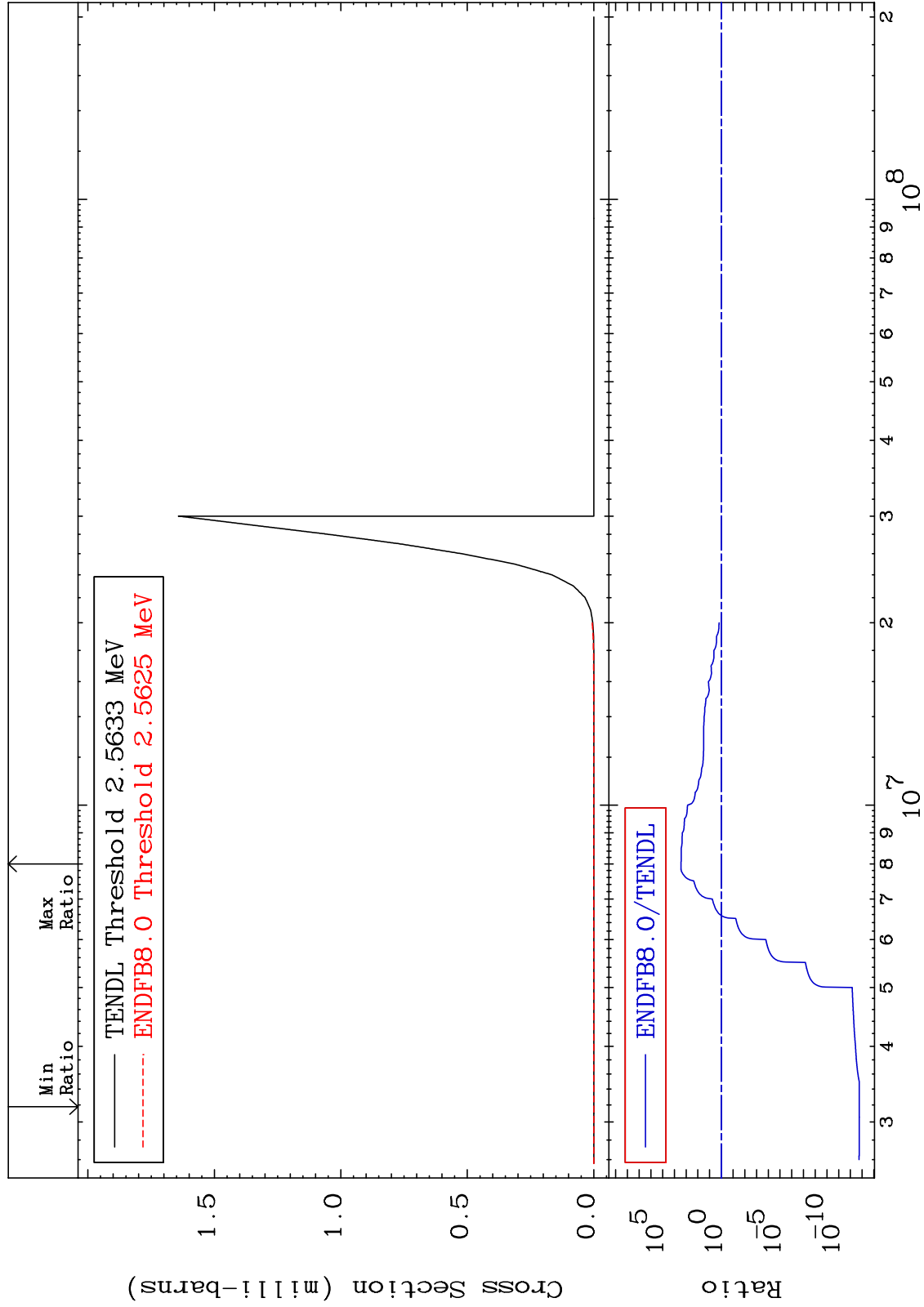
MAT 6619

(n, He-3)

66-Dy-154

Cross Section

-100.0 To 9999. %



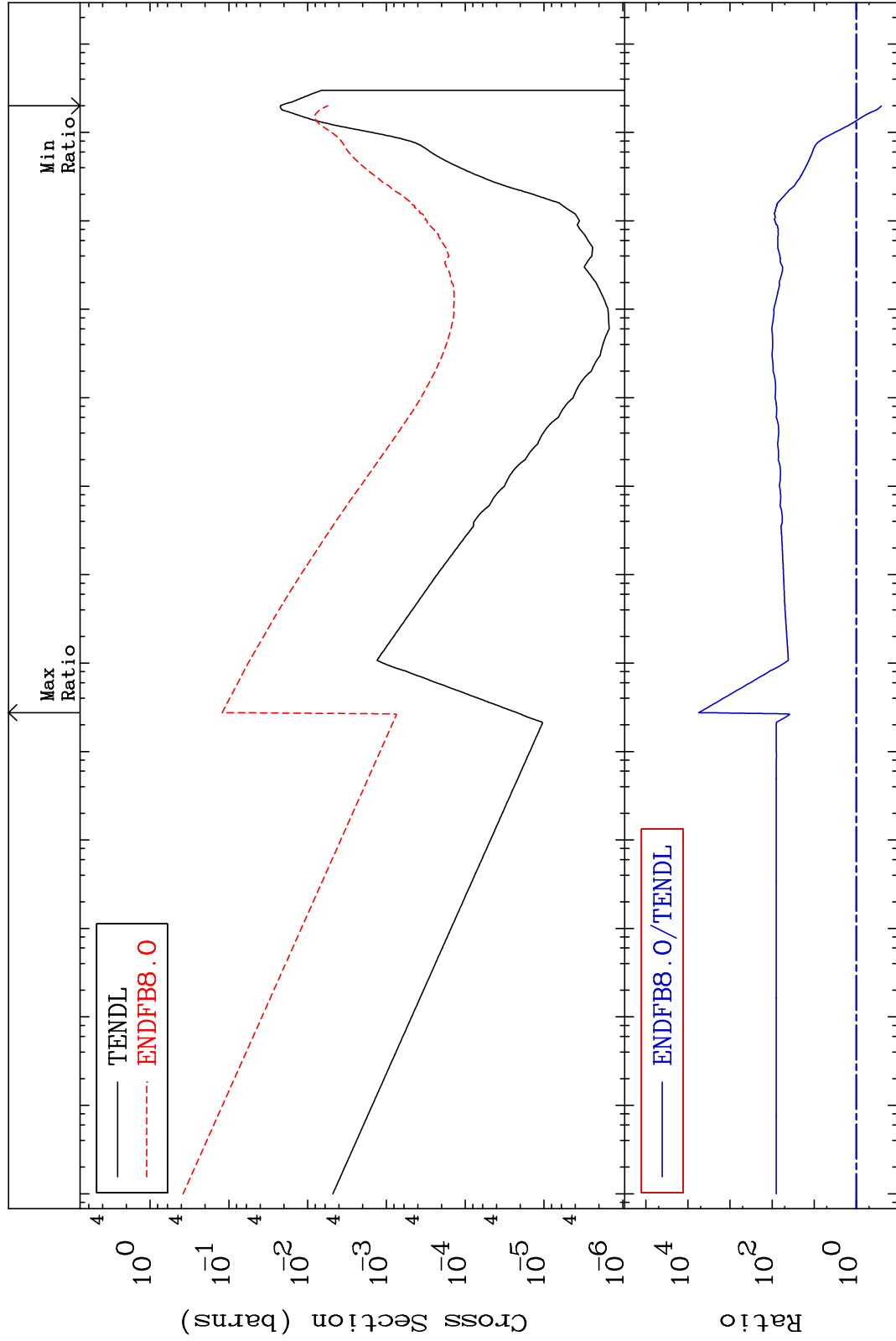
MAT 6619

(n,  $\alpha$ )

66-Dy-154

-74.97 To 9999. %

Cross Section



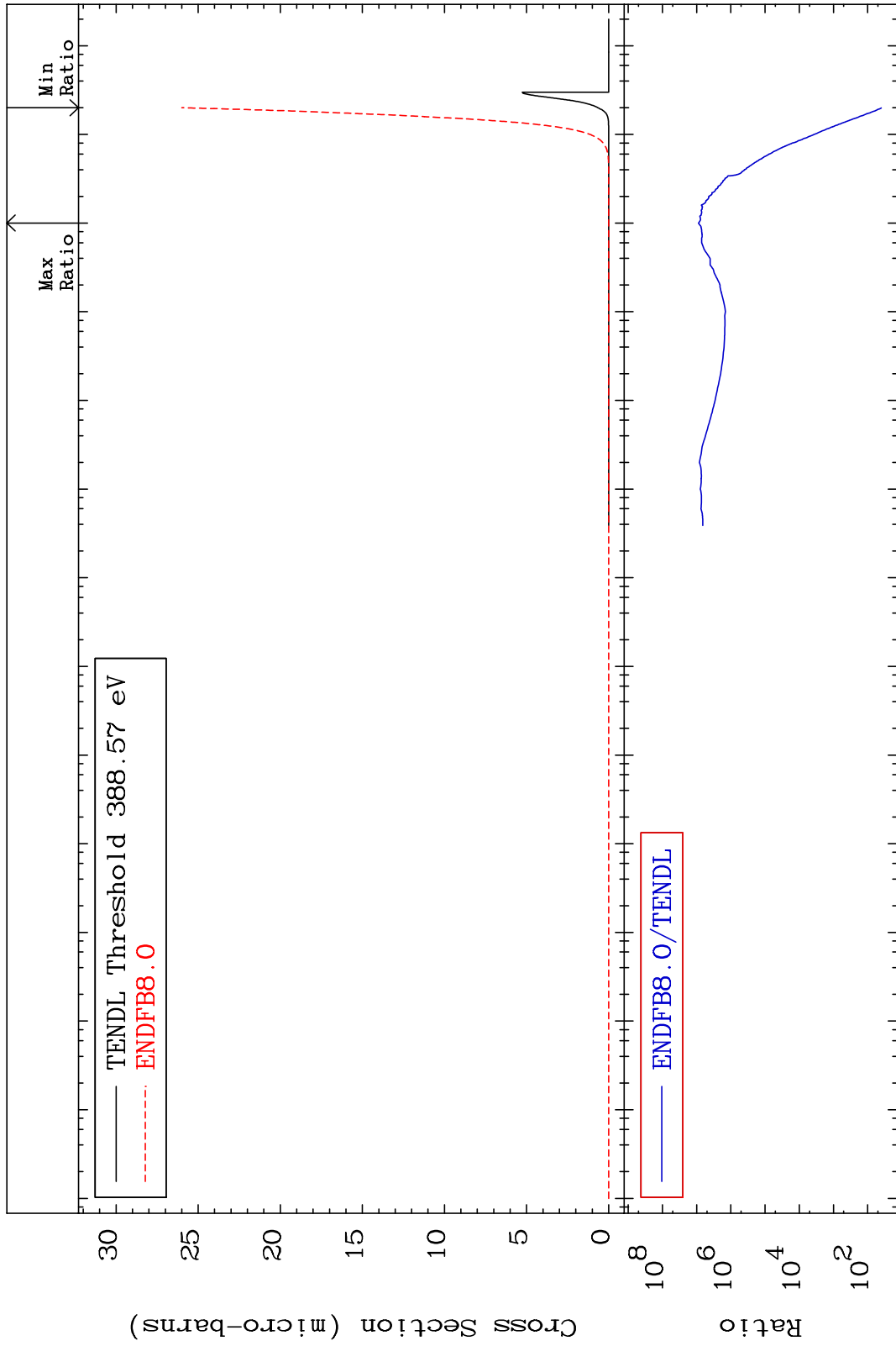
MAT 6619

(n,2α)

66-Dy-154

Cross Section

3829. To 9999. %



TENDL Threshold 388.57 eV  
ENDFB8.0

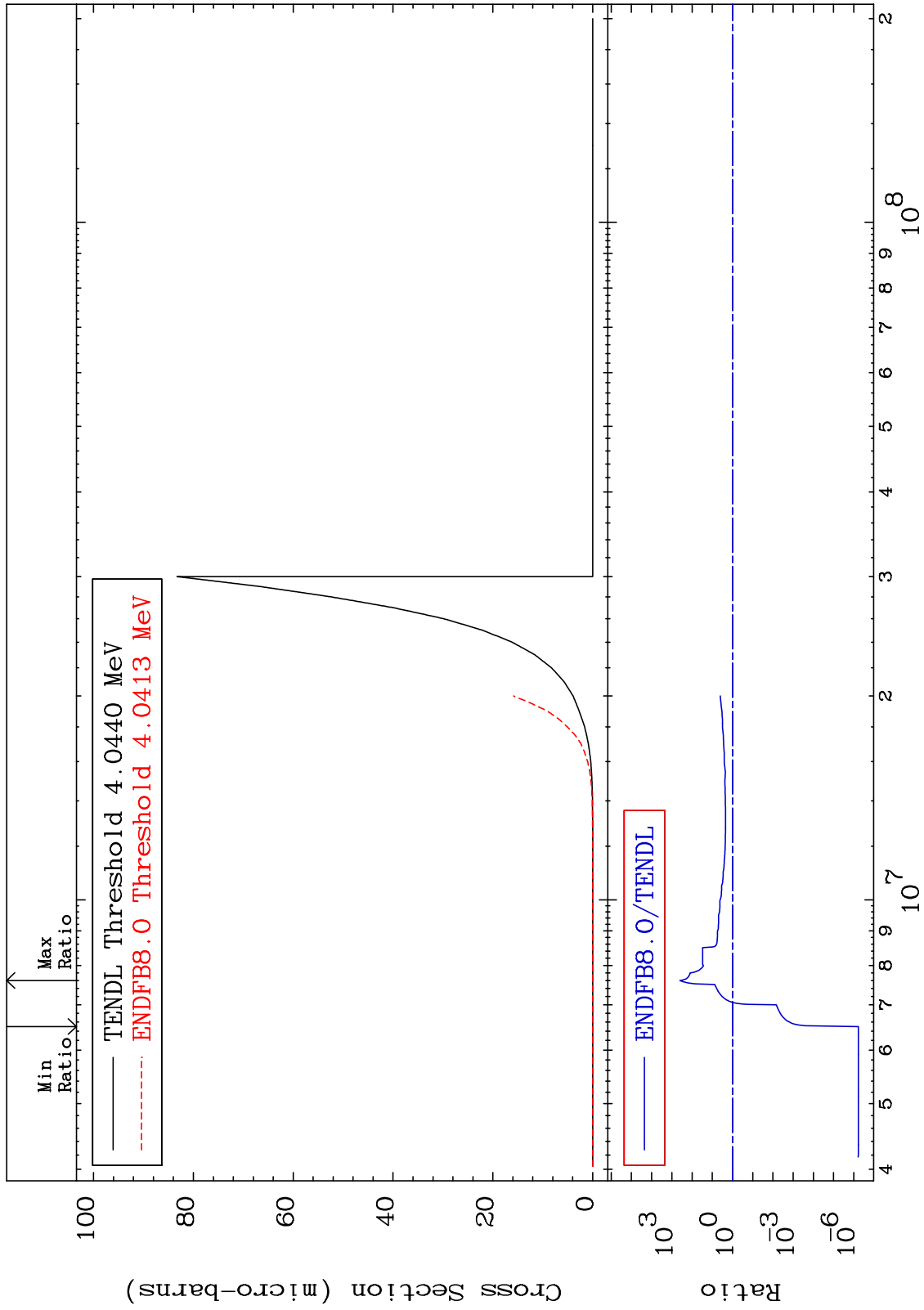
ENDFB8.0/TENDL

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)

66-Dy-154

35



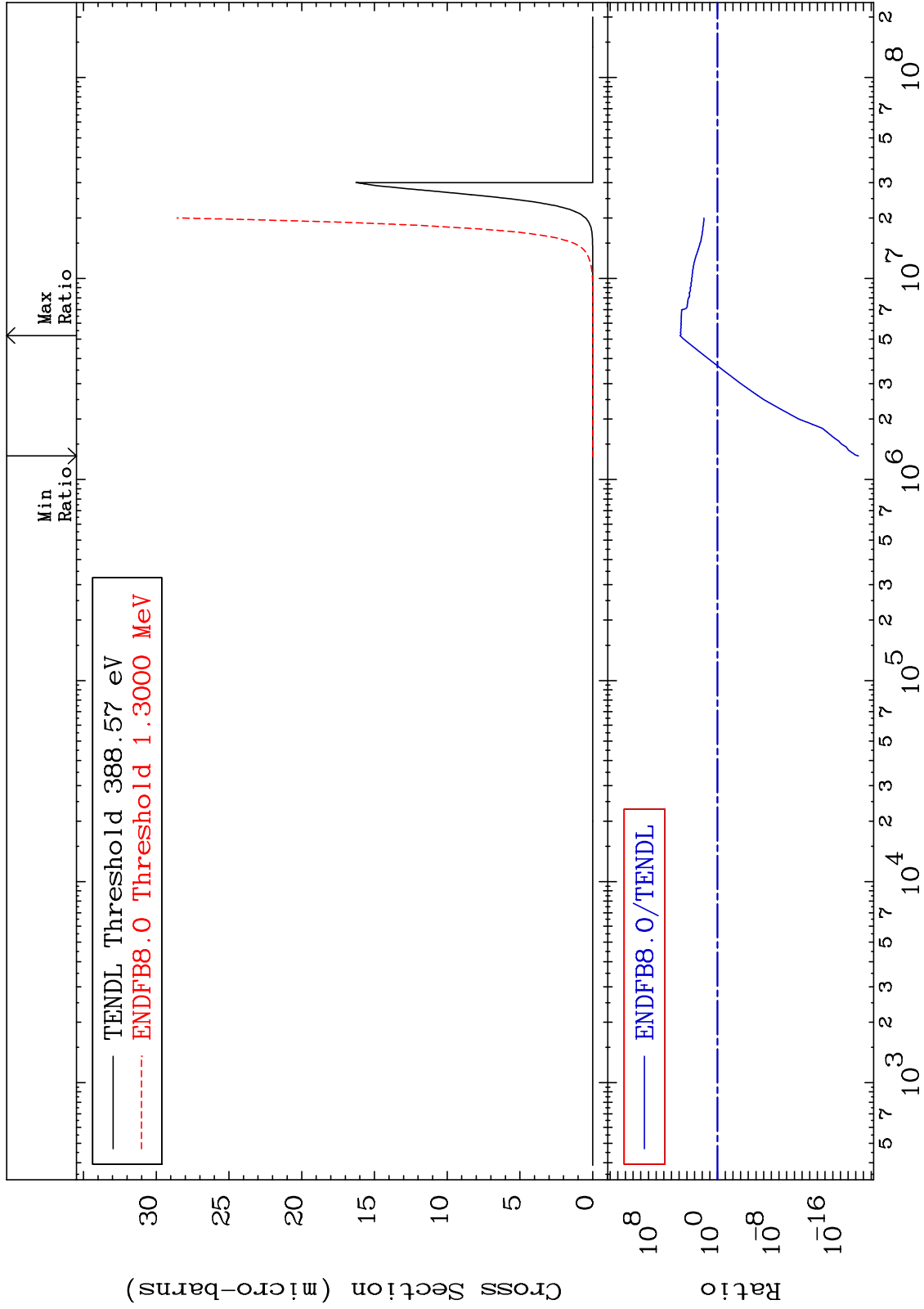
MAT 6619

(n,p)  $\alpha$

66-Dy-154

Cross Section

-100.0 To 9999. %



37

Incident Energy (eV)

66-Dy-154

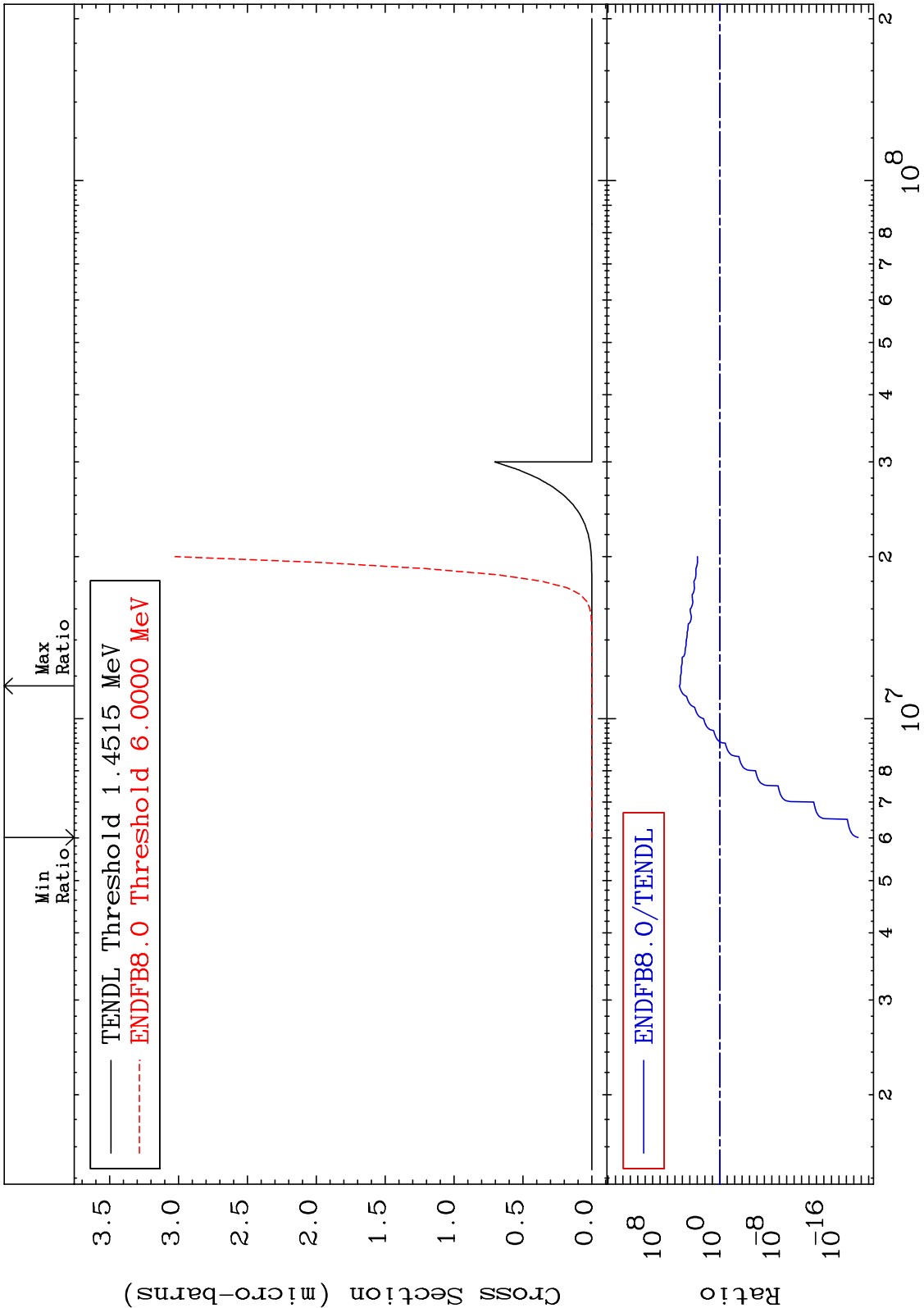
MAT 6619

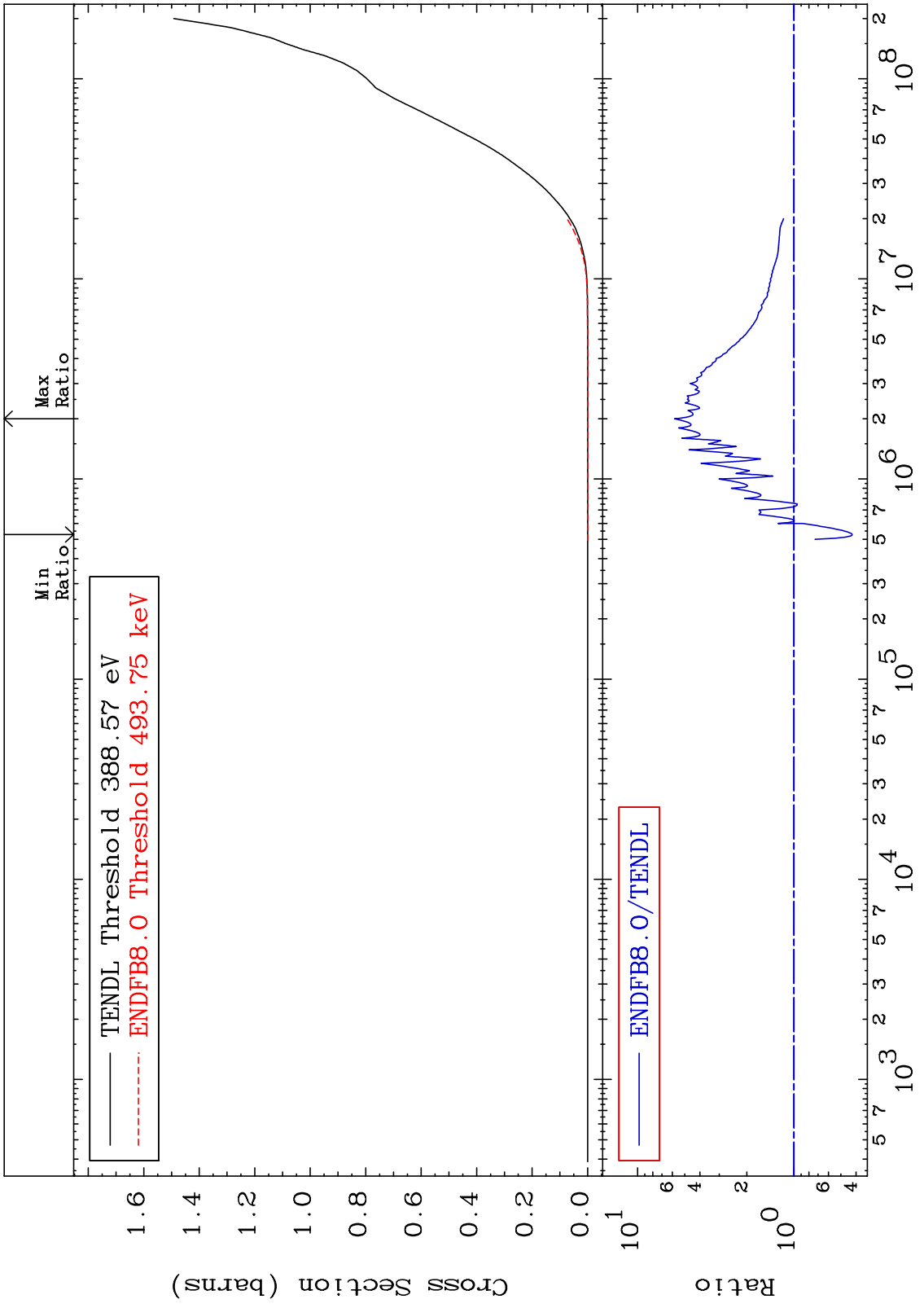
(n,d)  $\alpha$

66-Dy-154

-100.0 To 9999. %

Cross Section



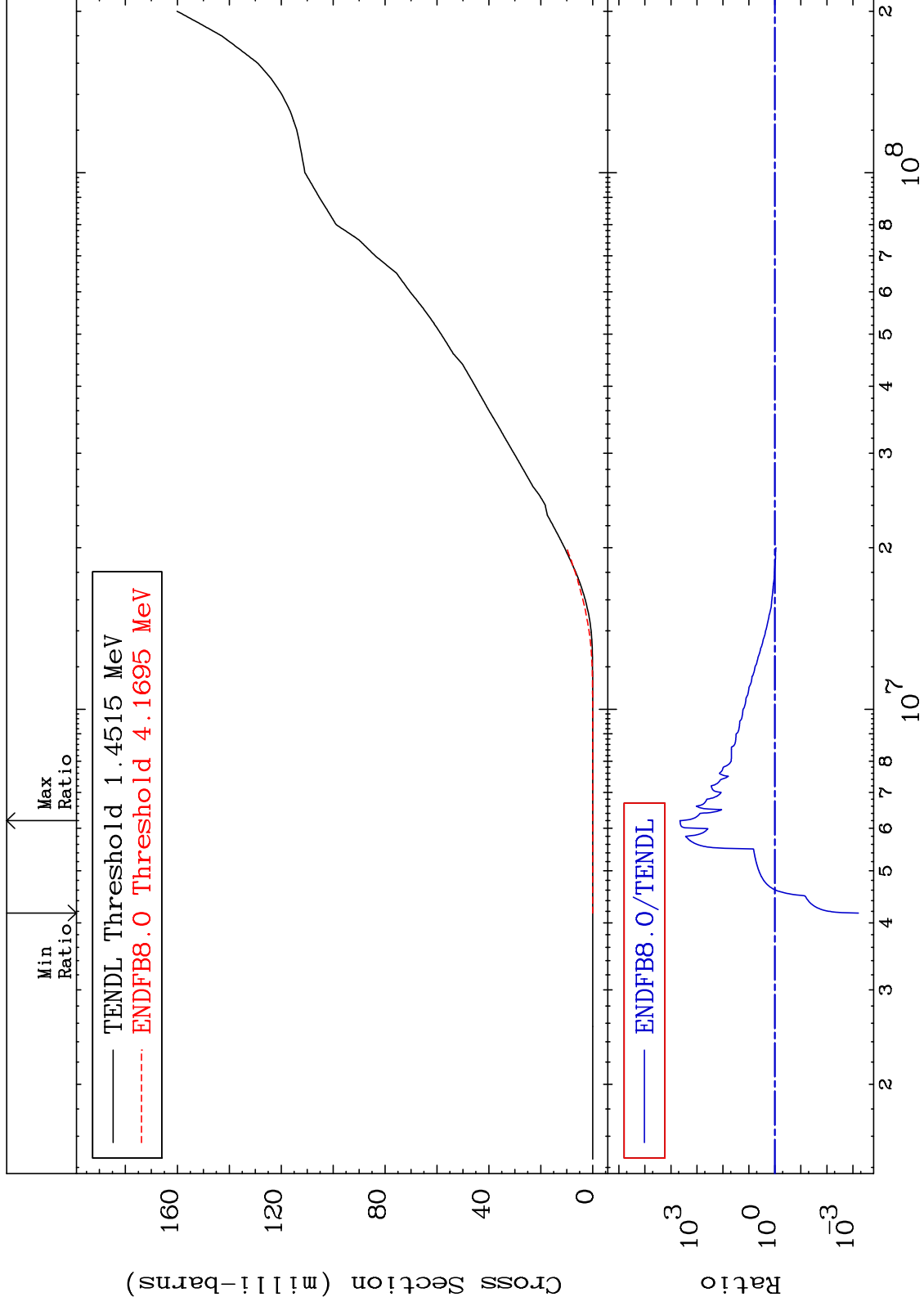




MAT 6619

Deuterium Production  
Cross Section

66-Dy-154  
-99.94 To 9999. %



40

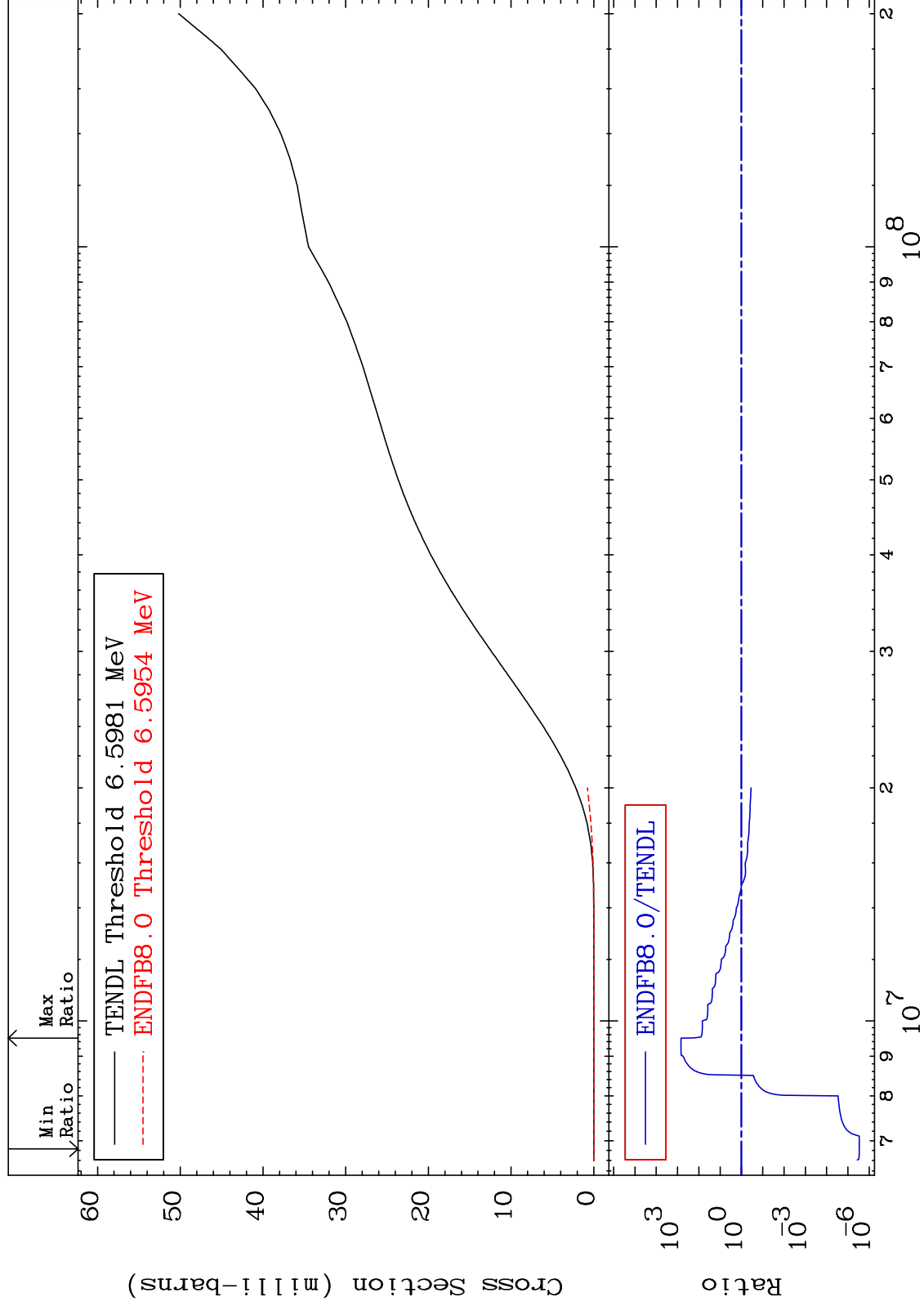
Incident Energy (eV)

66-Dy-154

MAT 6619

Tritium Production  
Cross Section

66-Dy-154  
-100.0 To 9999. %



41

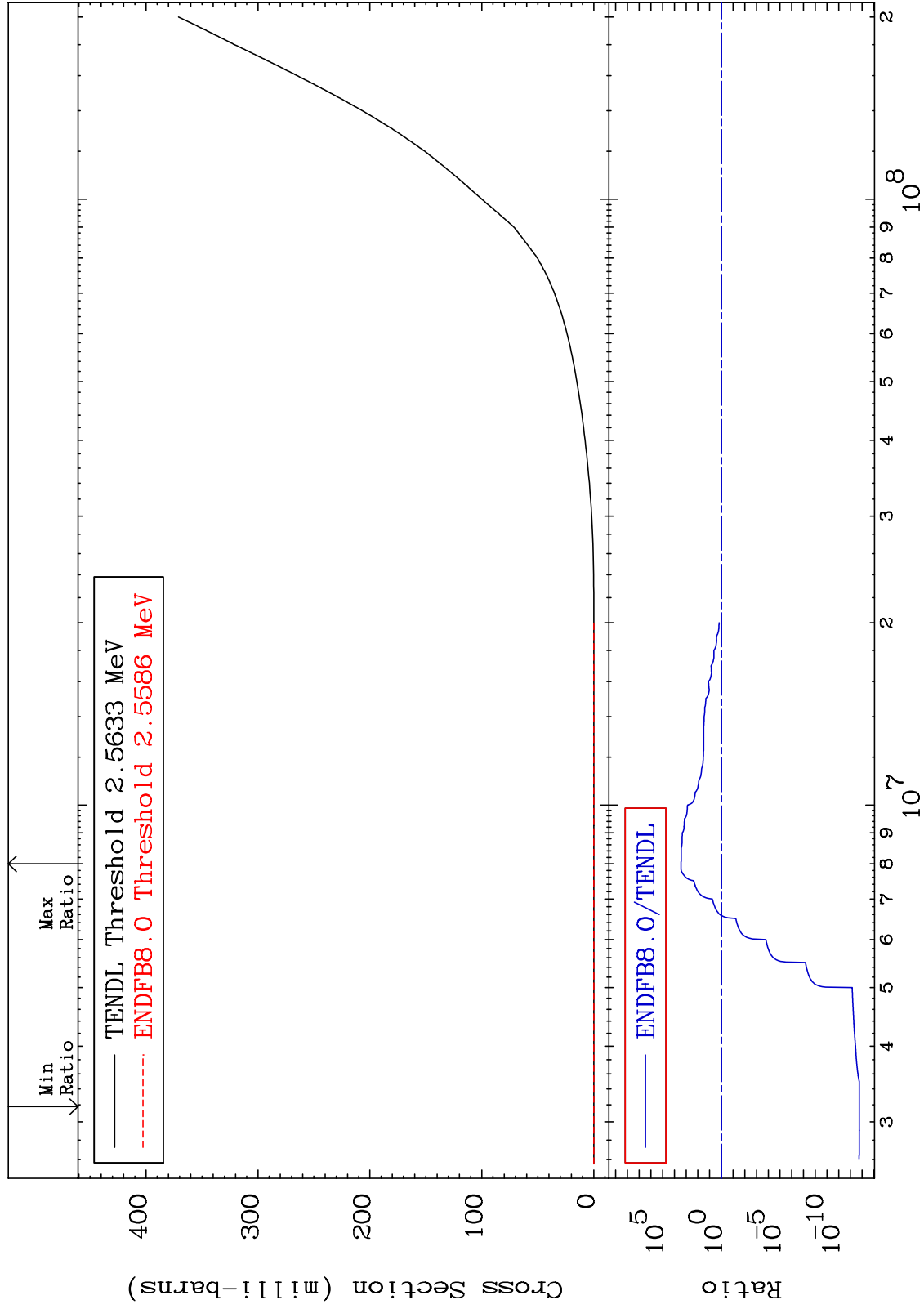
Incident Energy (eV)

66-Dy-154

MAT 6619

He-3 Production  
Cross Section

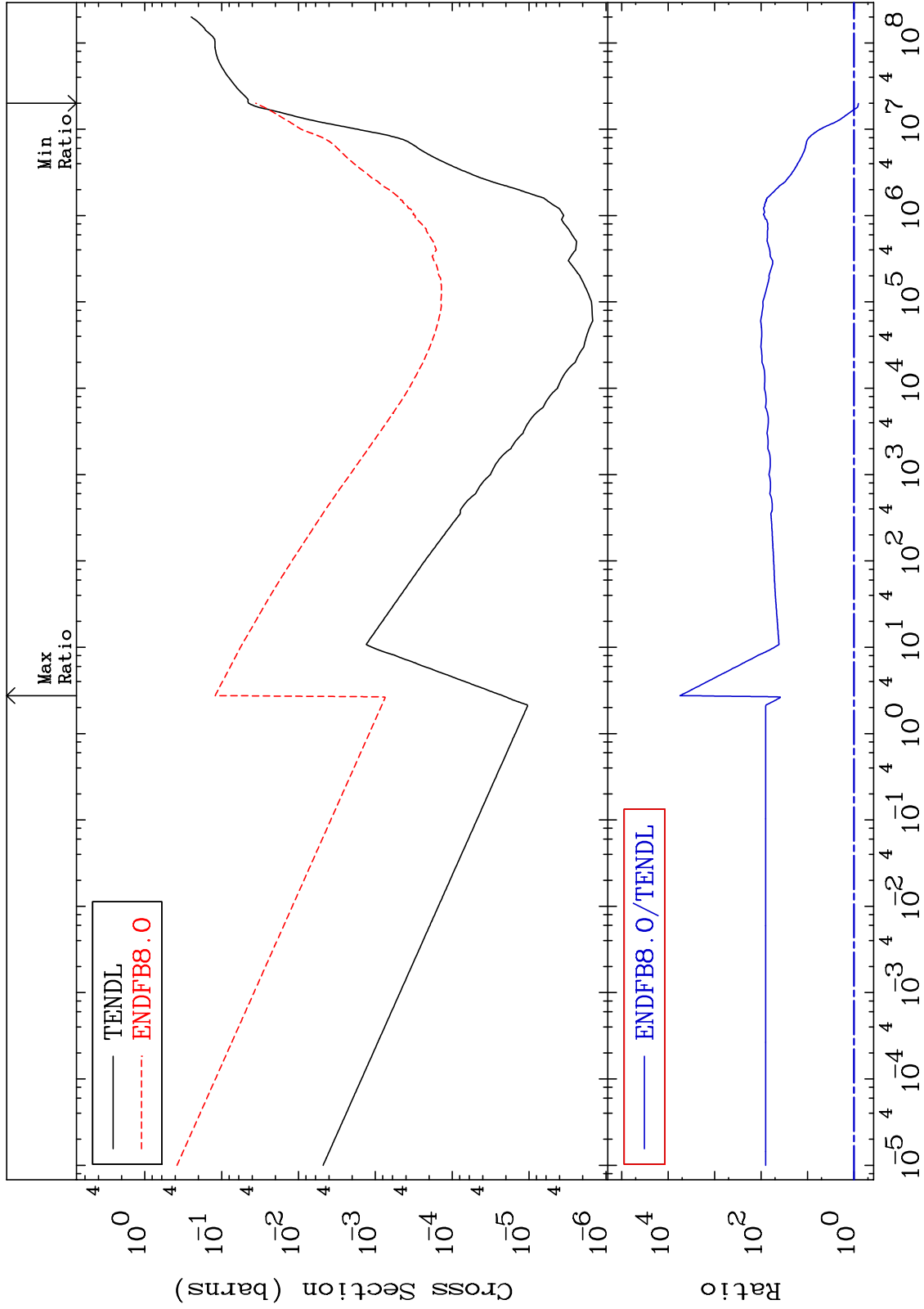
66-Dy-154  
-100.0 To 9999. %



MAT 6619

He-4 Production  
Cross Section

66-Dy-154  
-19.76 To 9999. %



43

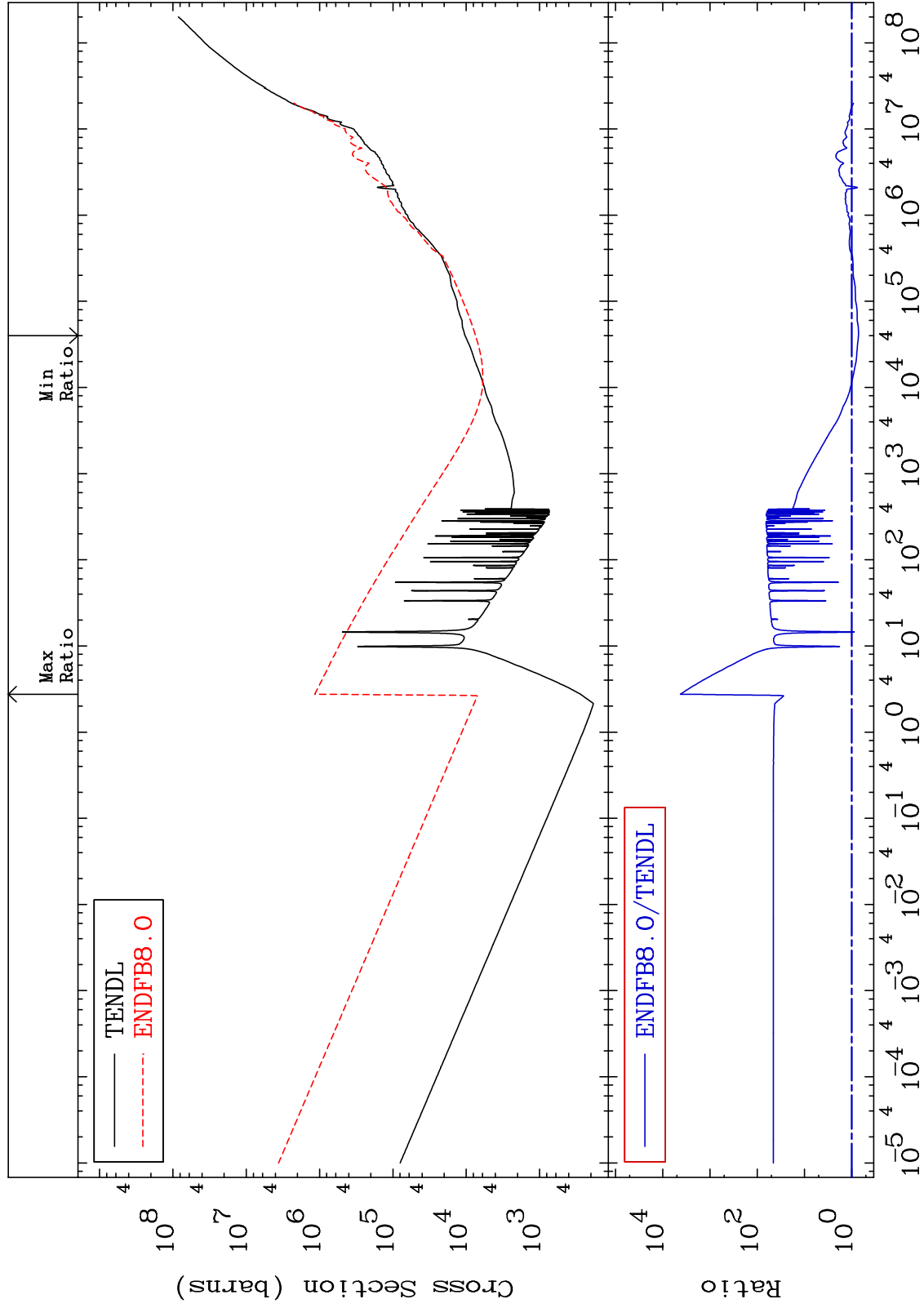
Incident Energy (eV)

66-Dy-154

MAT 6619

Kerma total (eV-barns)  
Cross Section

66-Dy-154  
-28.23 To 9999. %



44

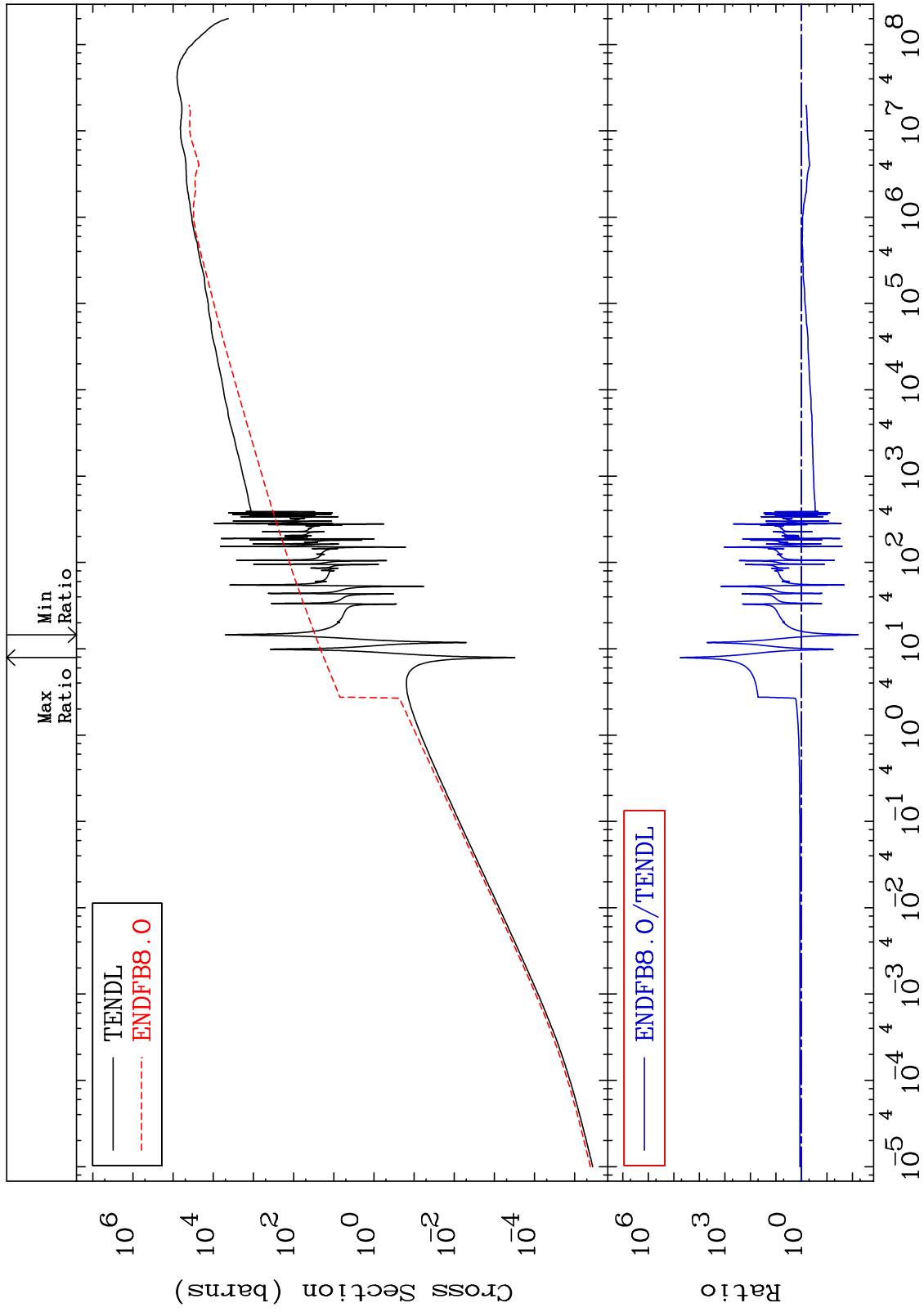
Incident Energy (eV)

66-Dy-154

MAT 6619

Kerma elastic  
Cross Section

66-Dy-154  
-99.41 To 9999. %



45

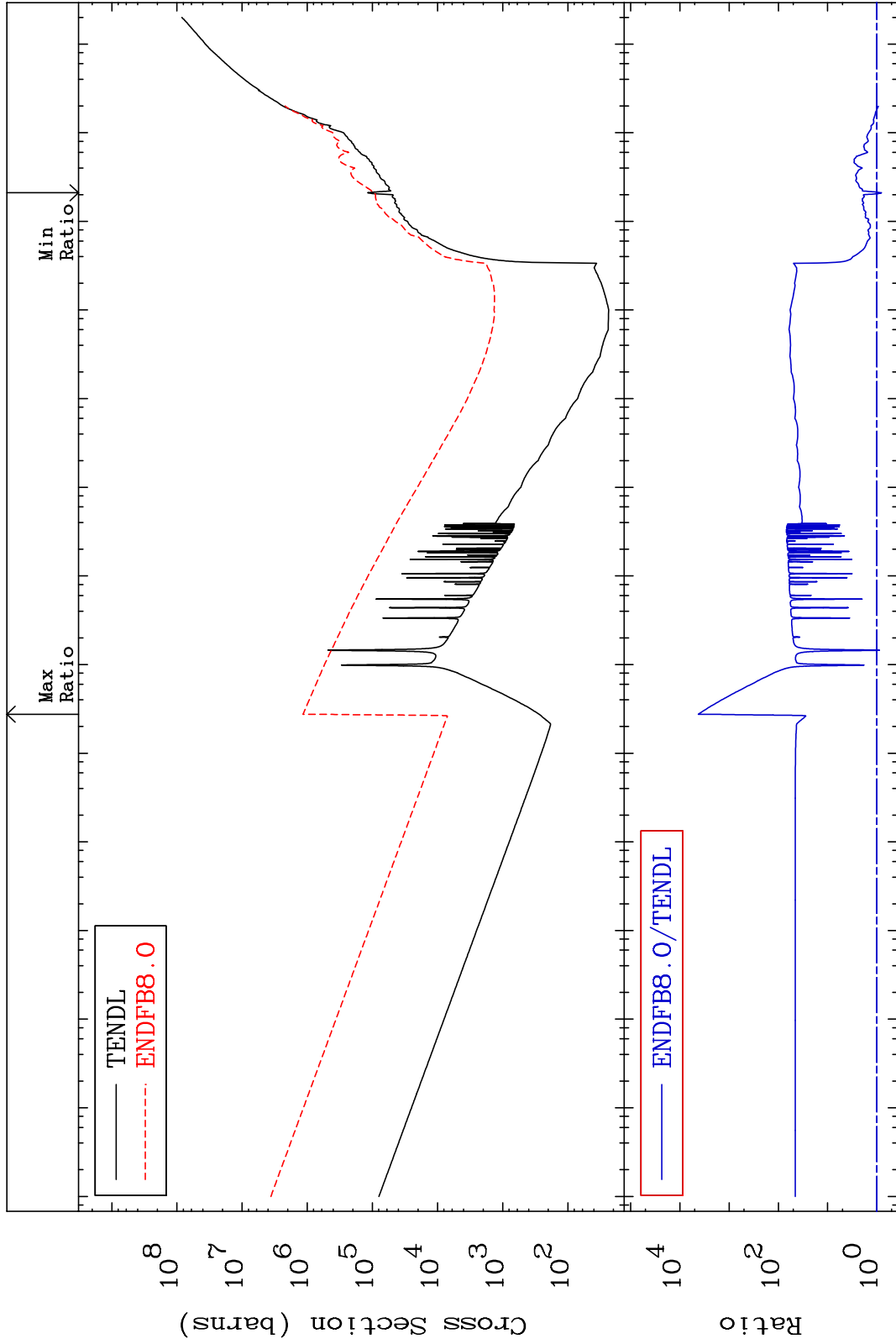
Incident Energy (eV)

66-Dy-154

MAT 6619

Kerma non-elastic (all but mt2)  
Cross Section

66-Dy-154  
-19.78 To 9999. %



46

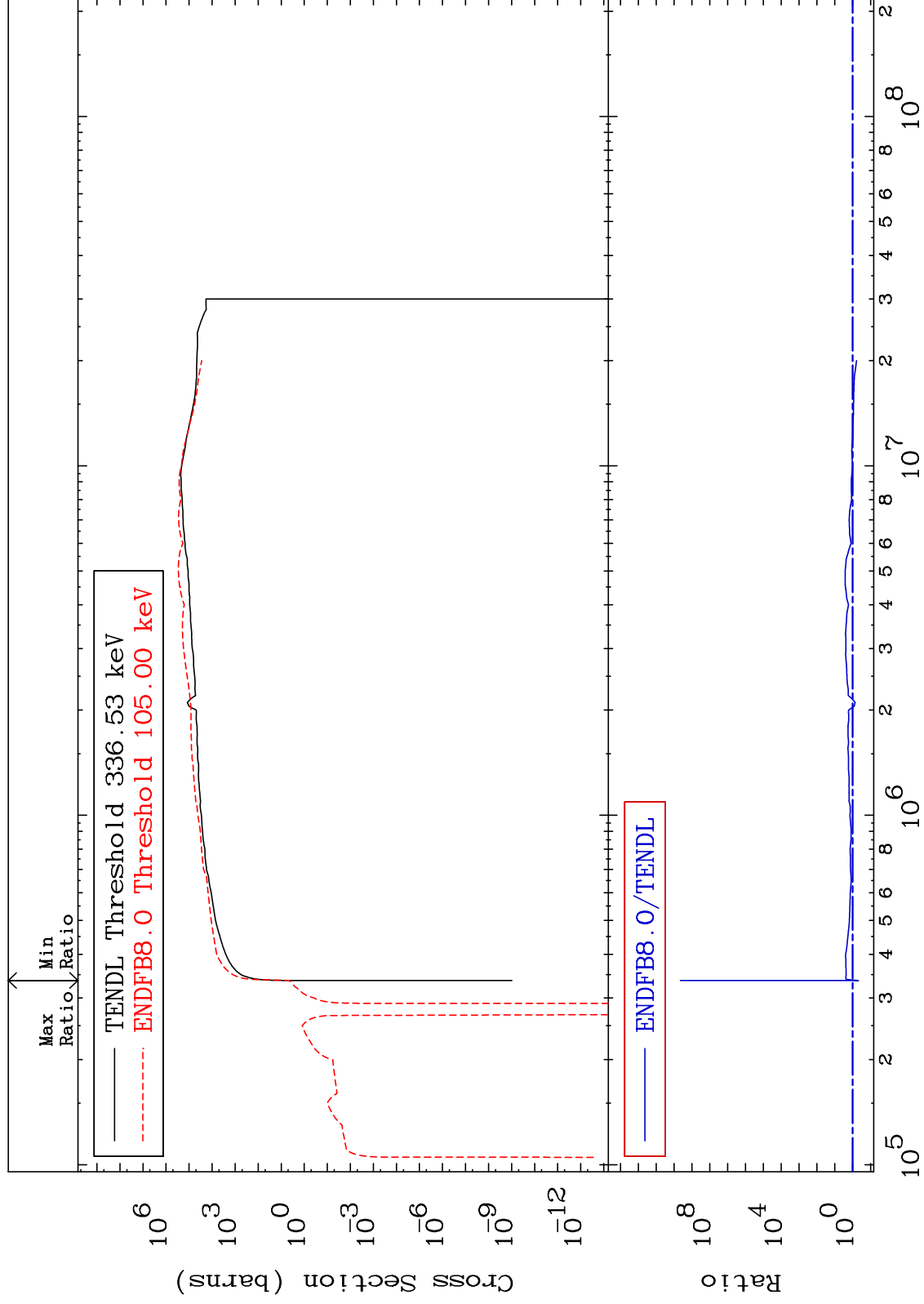
Incident Energy (eV)

66-Dy-154

MAT 6619

Kerma inelastic (mt51-91)  
Cross Section

66-Dy-154  
-52.79 To 9999. %



47

Incident Energy (eV)

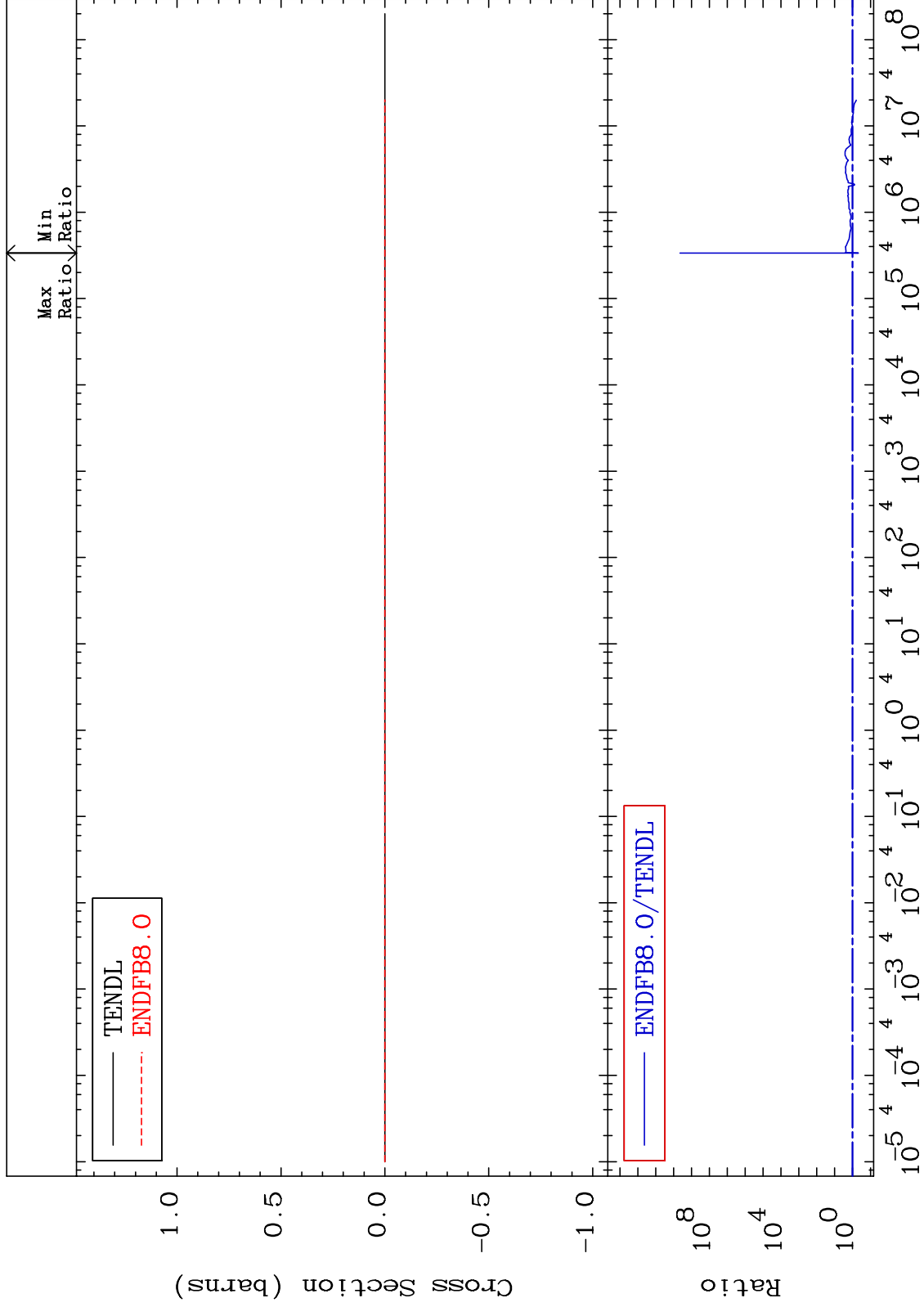
66-Dy-154



MAT 6619

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

66-Dy-154  
-52.79 To 9999. %



48

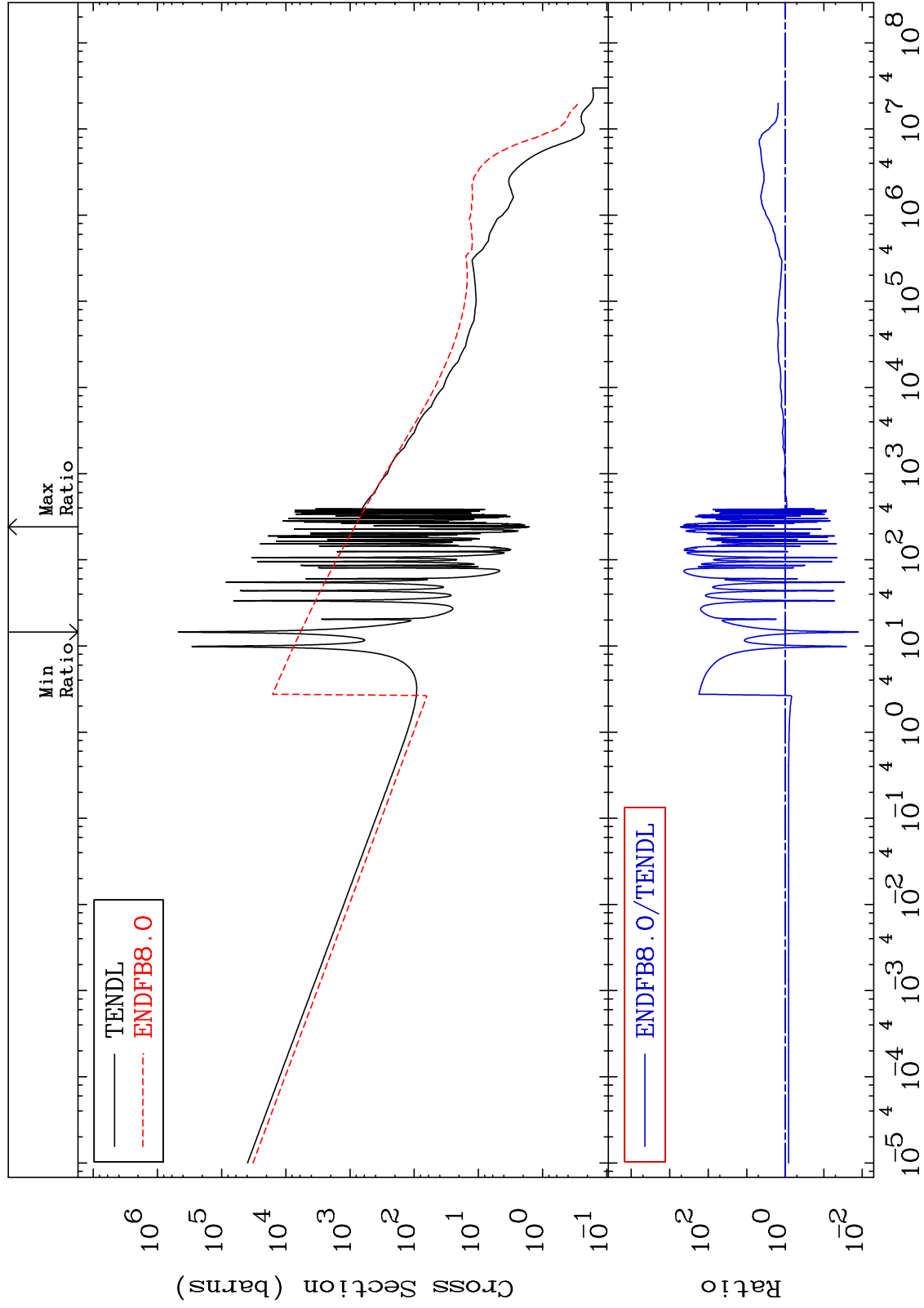
Incident Energy (eV)

66-Dy-154

MAT 6619

Kerma capture (mt102)  
Cross Section

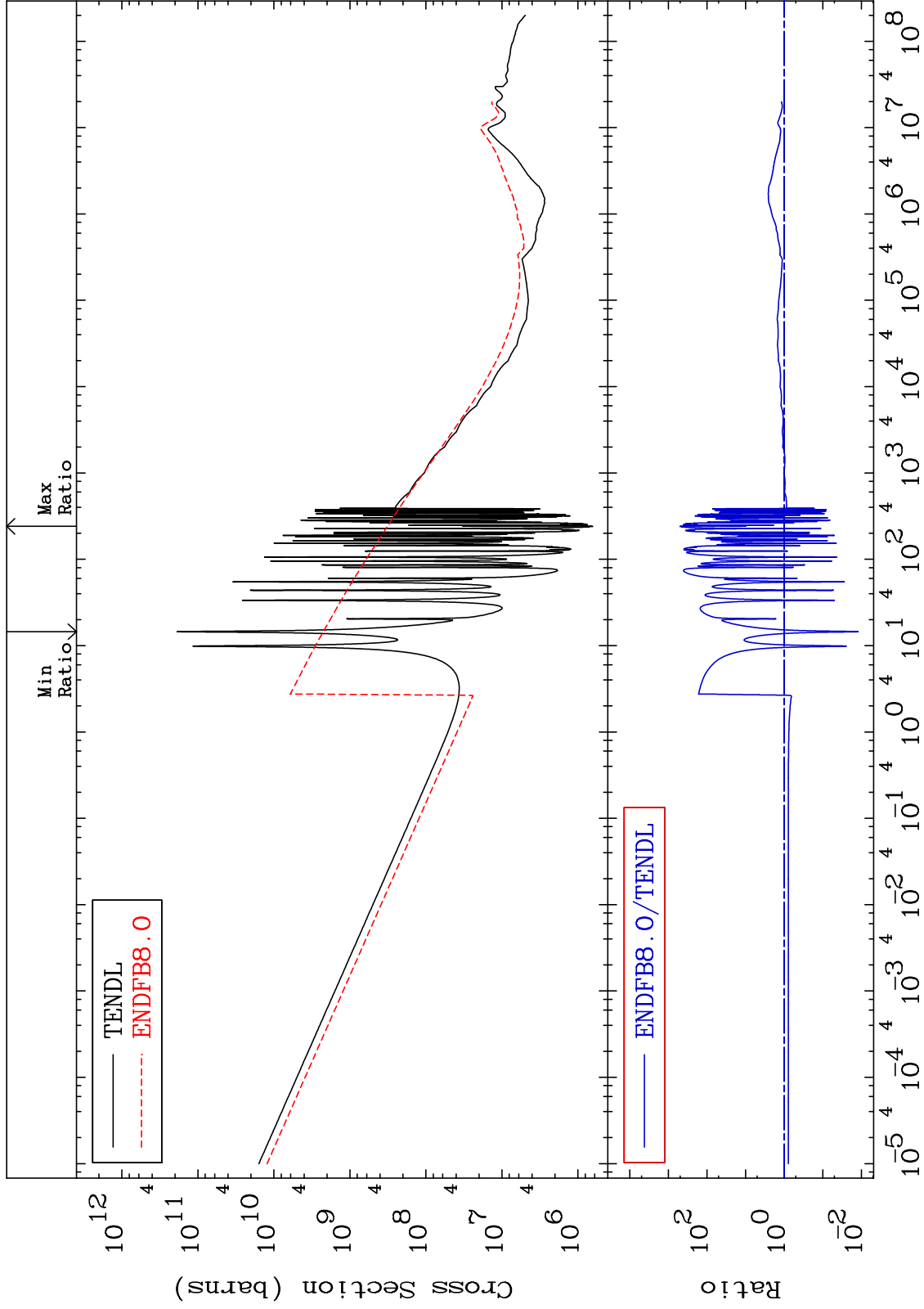
66-Dy-154  
-98.75 To 9999. %



MAT 6619

Total photon (eV-barns)  
Cross Section

66-Dy-154  
-98.81 To 9999. %



50

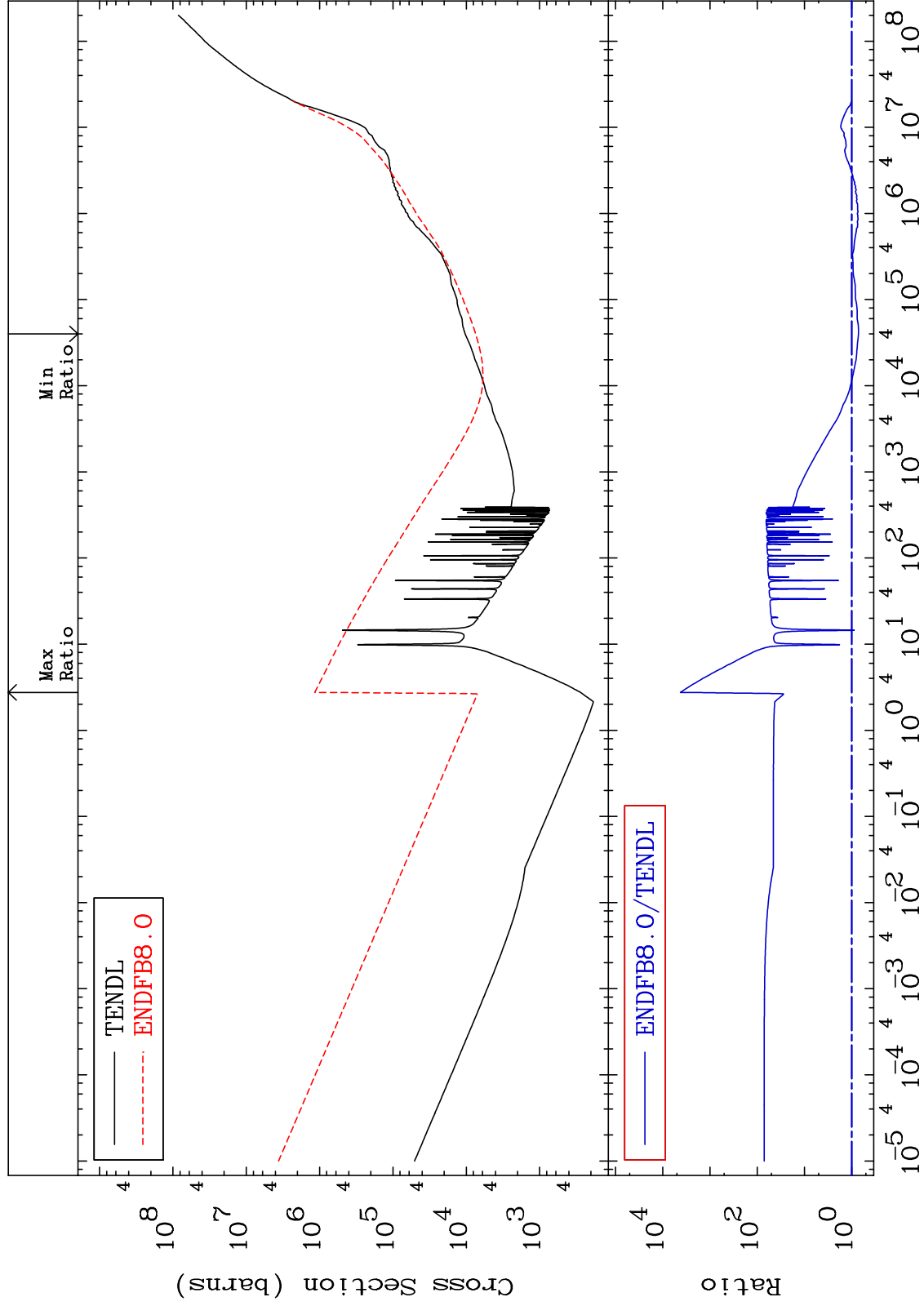
Incident Energy (eV)

66-Dy-154

MAT 6619

Total kinematic kerma (high limit)  
Cross Section

66-Dy-154  
-28.23 To 9999. %



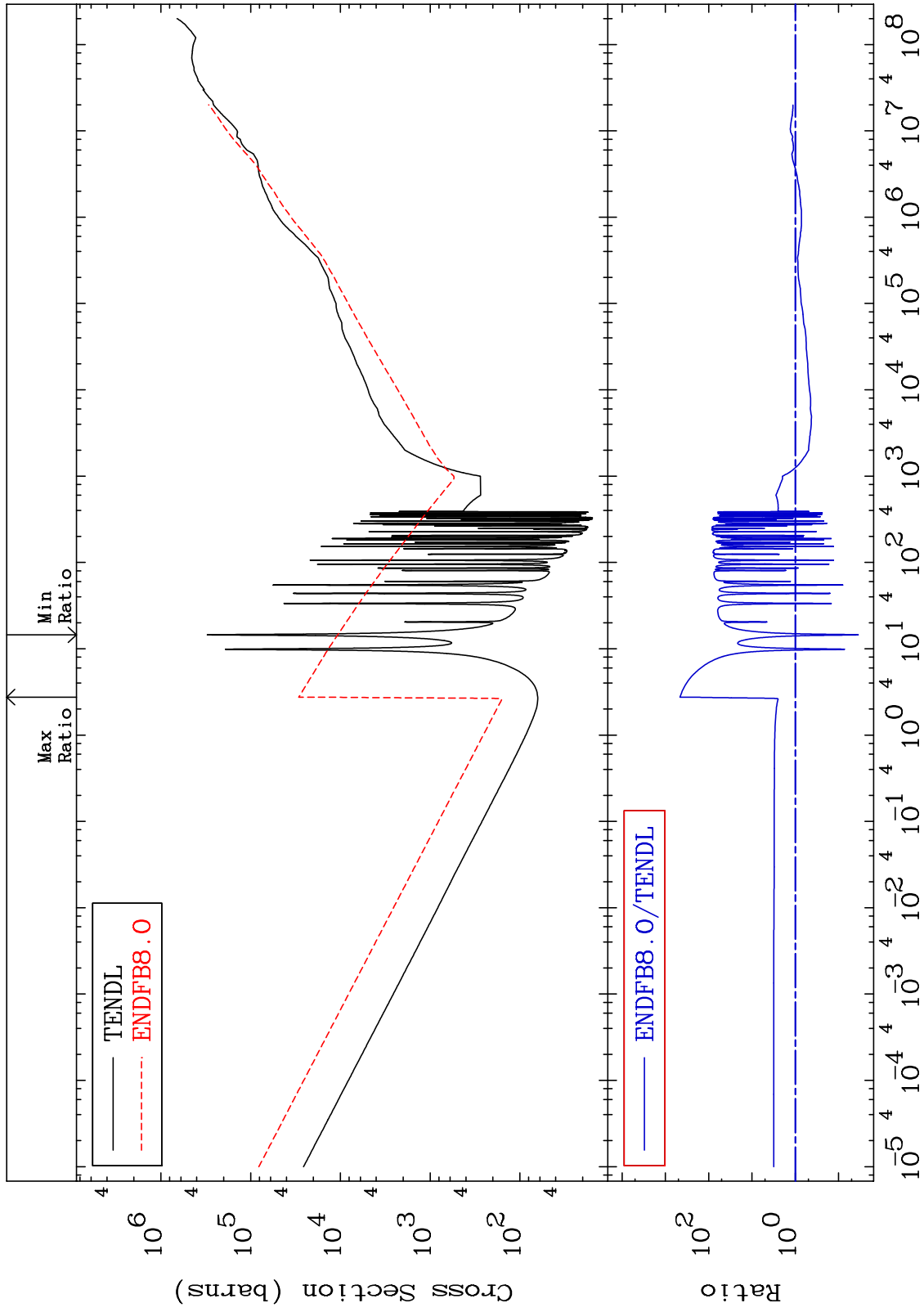
MAT 6619

Dpa total (eV-barns)

66-Dy-154

-96.51 To 9999. %

Cross Section



52

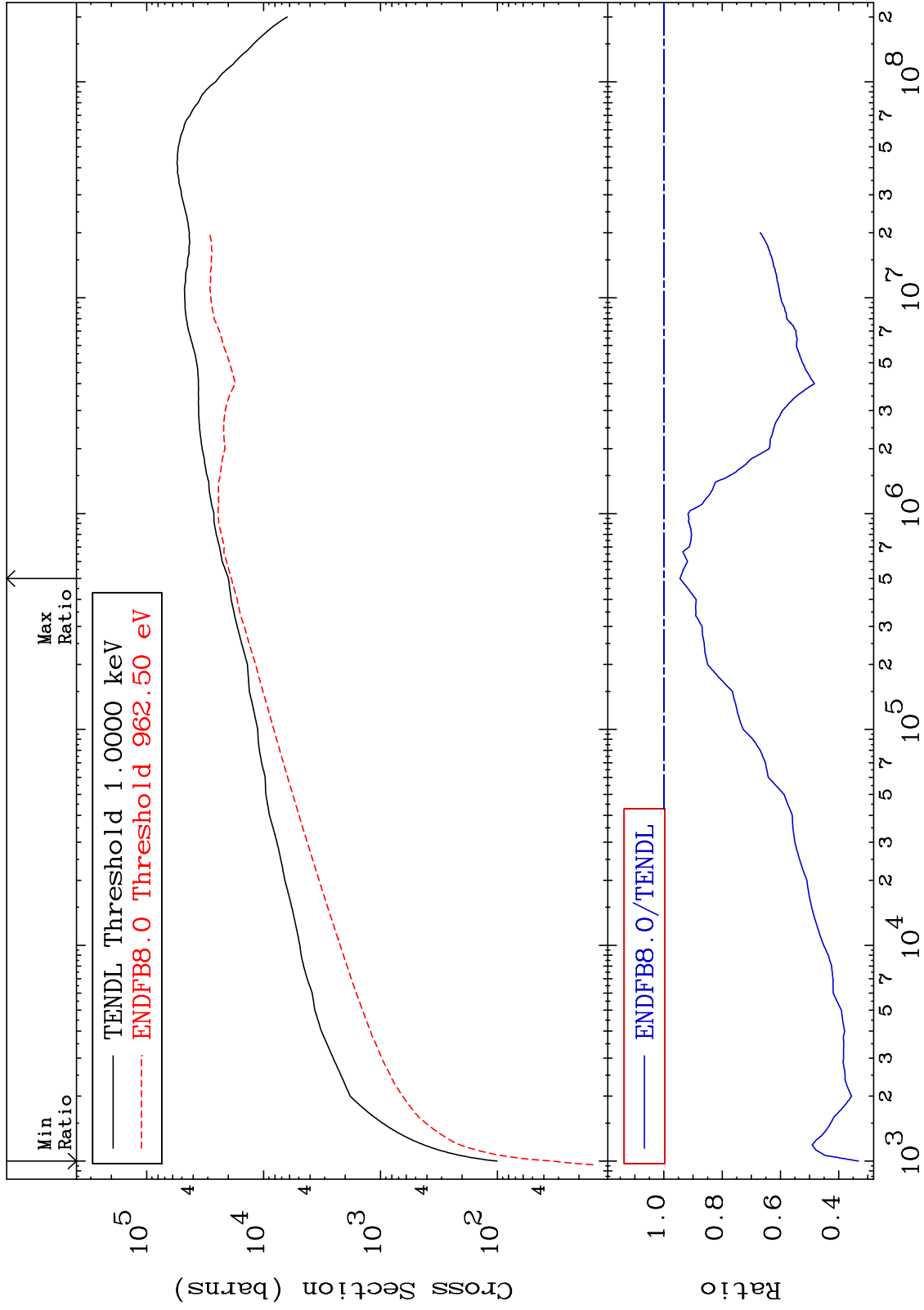
Incident Energy (eV)

66-Dy-154

MAT 6619

Dpa elastic (mt2)  
Cross Section

66-Dy-154  
-66.78 To -5.532%



53

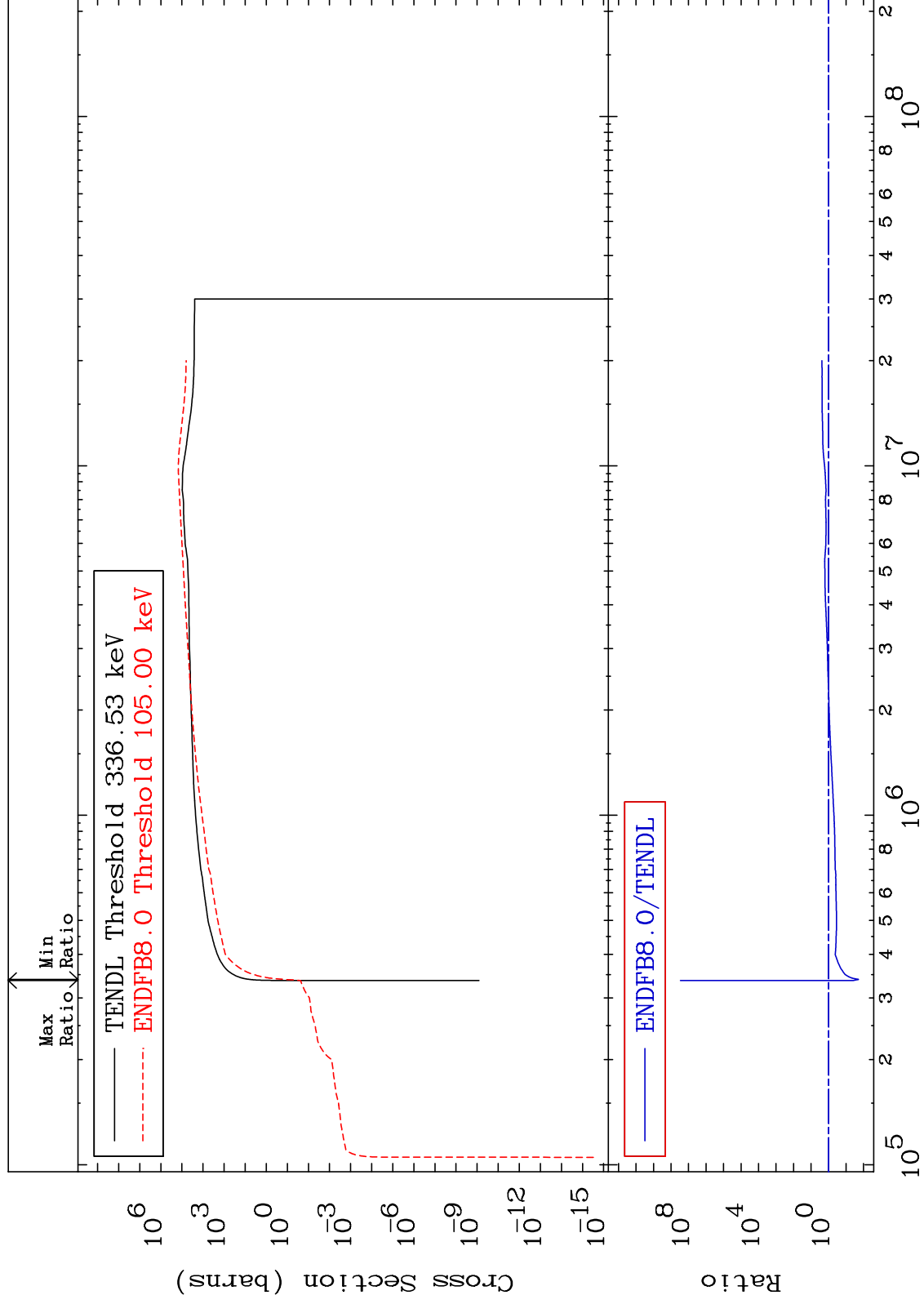
Incident Energy (eV)

66-Dy-154

MAT 6619

Dpa inelastic (mt51-91)  
Cross Section

66-Dy-154  
-98.05 To 9999. %



54

Incident Energy (eV)

66-Dy-154

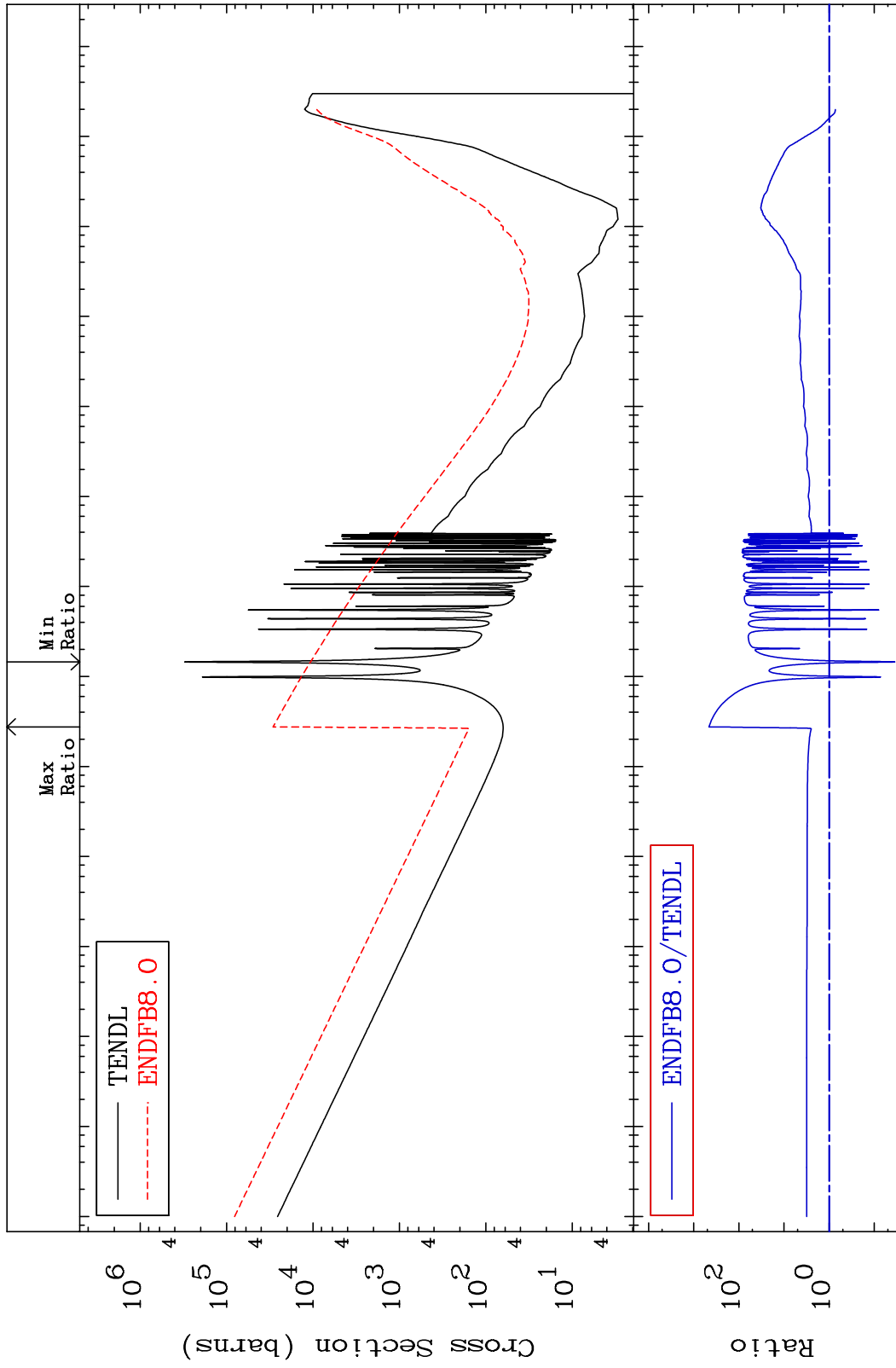
MAT 6619

Dpa disappearance (mt102 -120)

66-Dy-154

-96.51 To 9999. %

Cross Section



Ratio

Incident Energy (eV)

66-Dy-154