

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

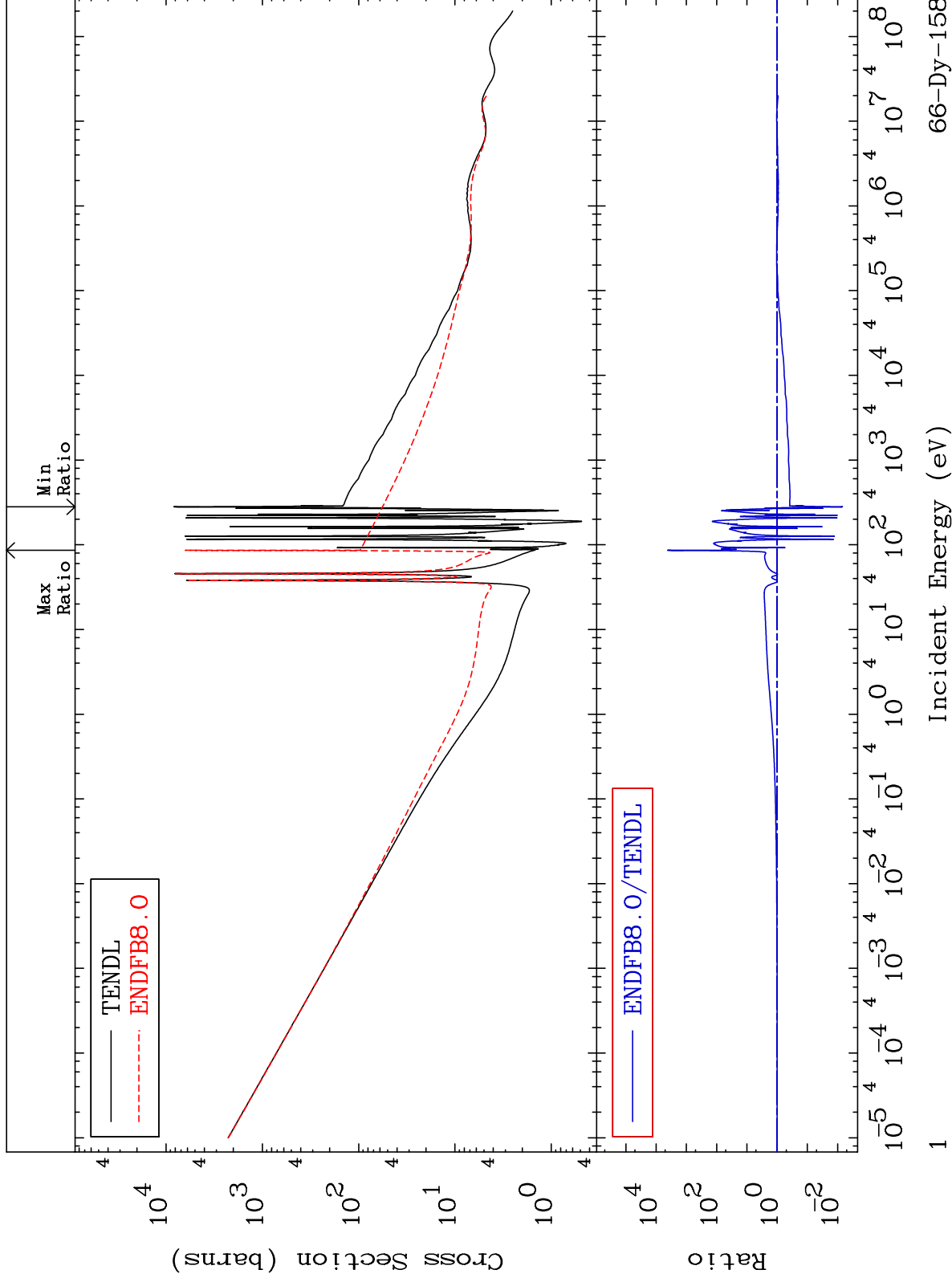
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6631

Total  
Cross Section

66-Dy-158  
-99.32 To 9999. %



66-Dy-158

Incident Energy (eV)

1

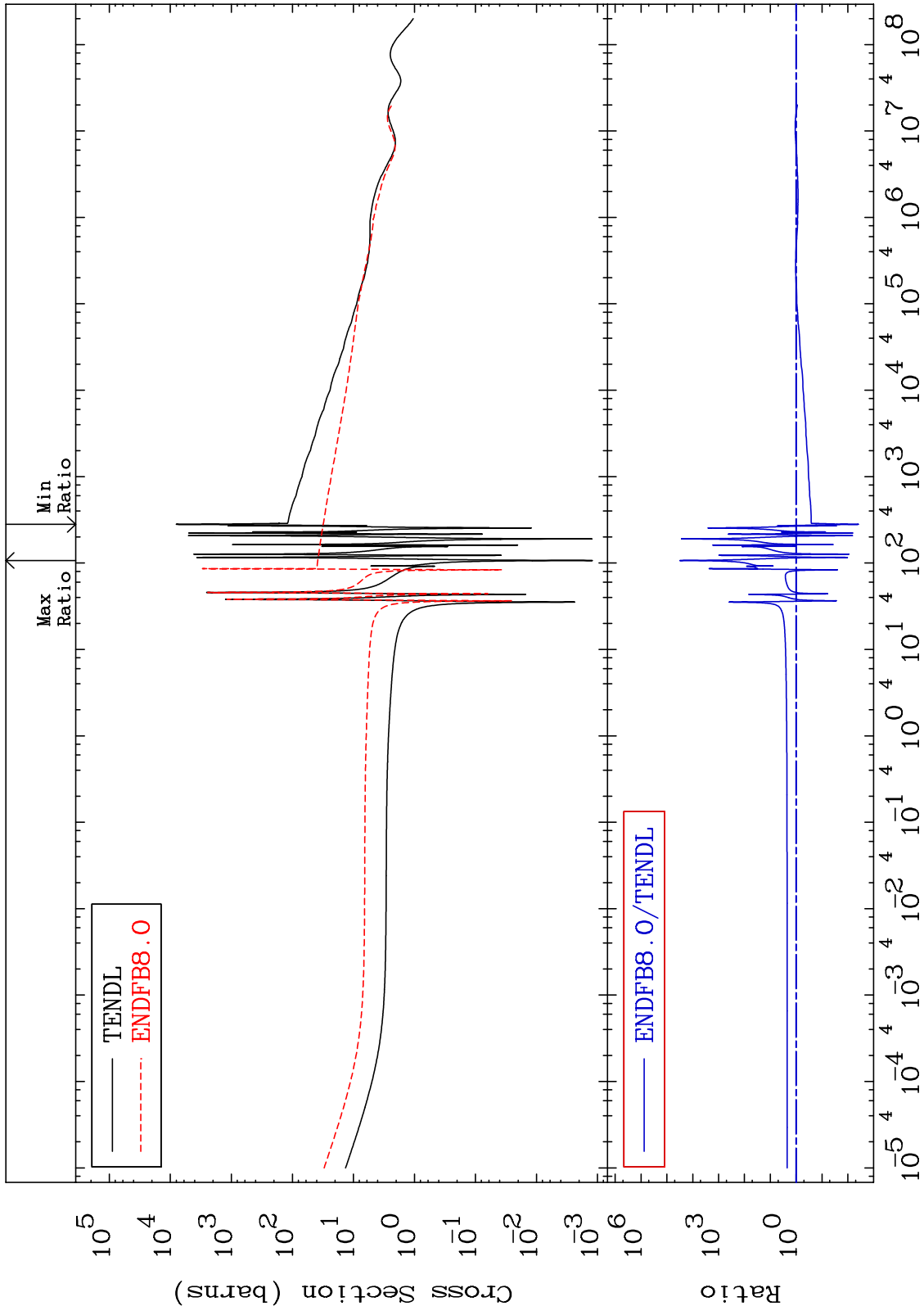
MAT 6631

Elastic

66-Dy-158

Cross Section

-99.61 To 9999. %





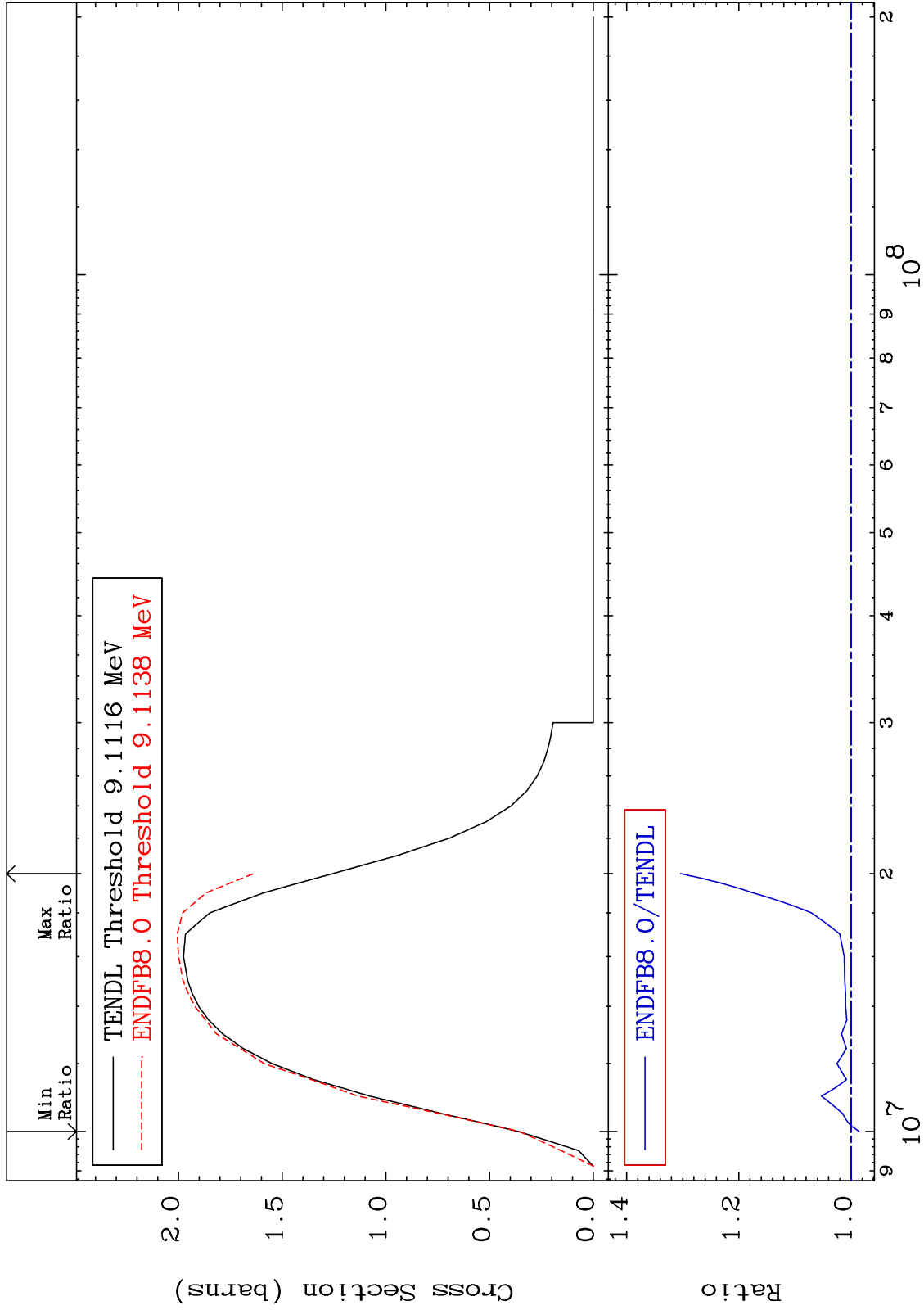
MAT 6631

(n,2n)

66-Dy-158

Cross Section

-1.447 To 30.37 %



Incident Energy (eV)

66-Dy-158

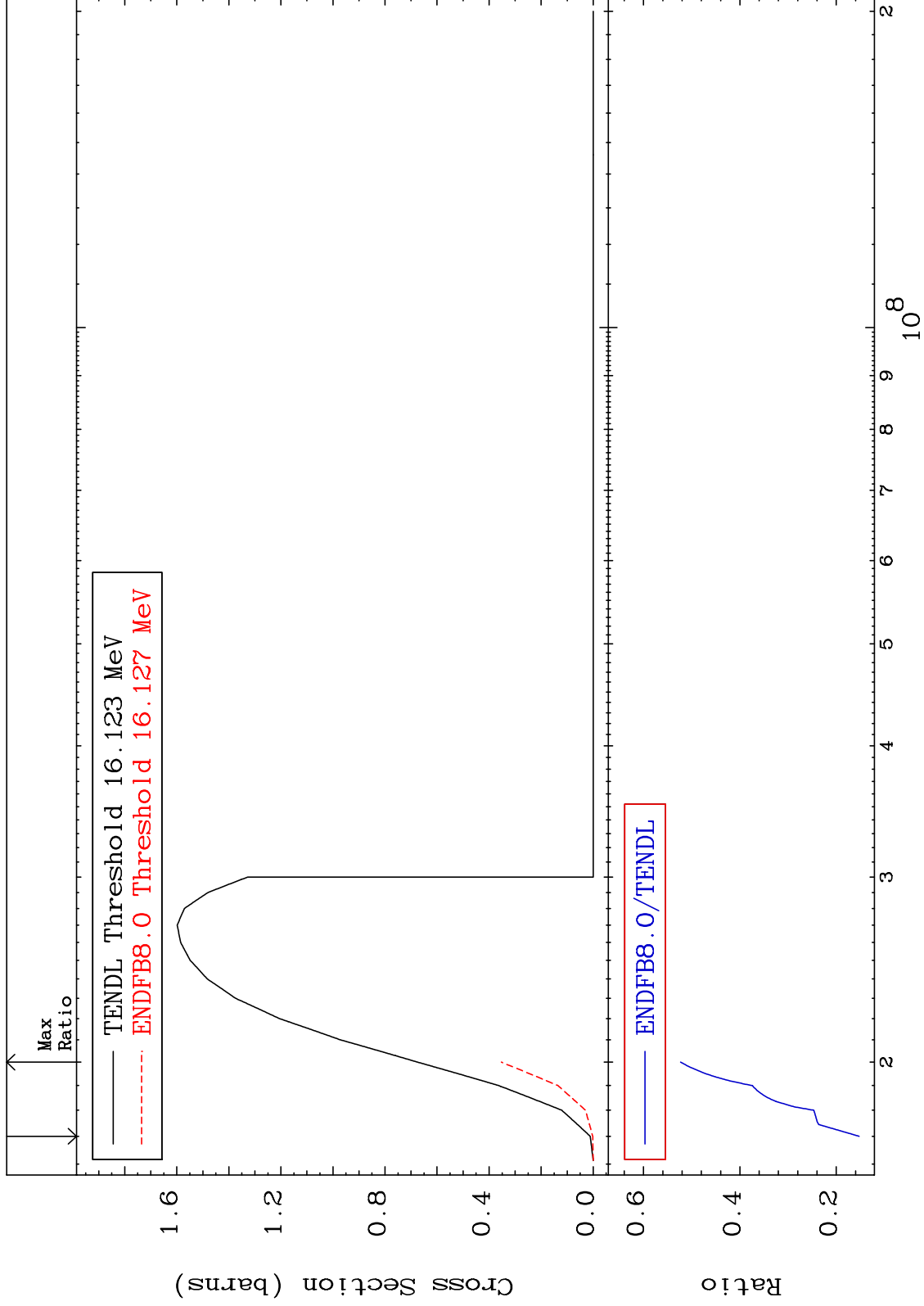
MAT 6631

(n, 3n)

66-Dy-158

Cross Section

-84.74 To -47.70%



5

Incident Energy (eV)

66-Dy-158

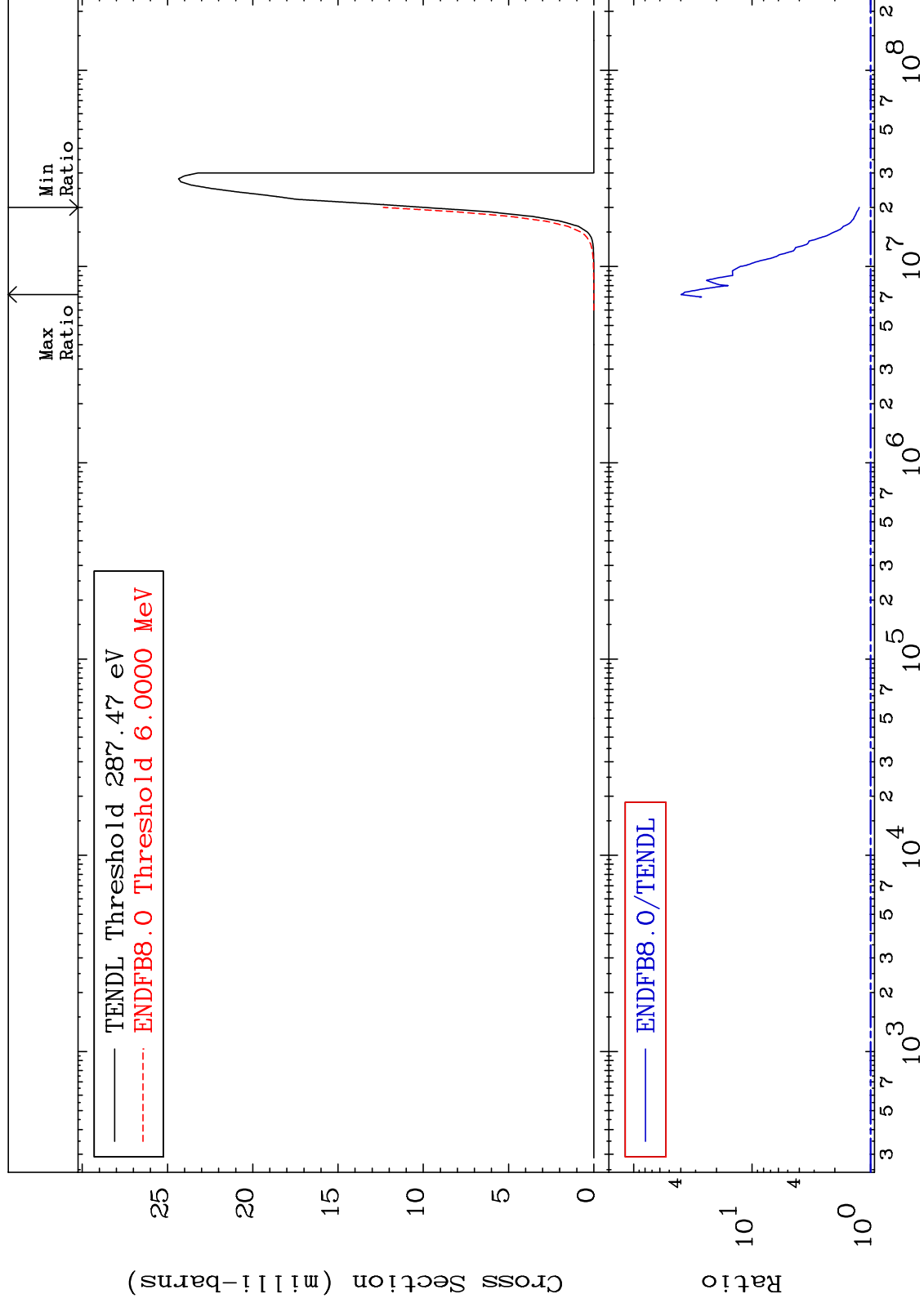
MAT 6631

(n,n')  $\alpha$

Cross Section

66-Dy-158

24.59 To 3879. %



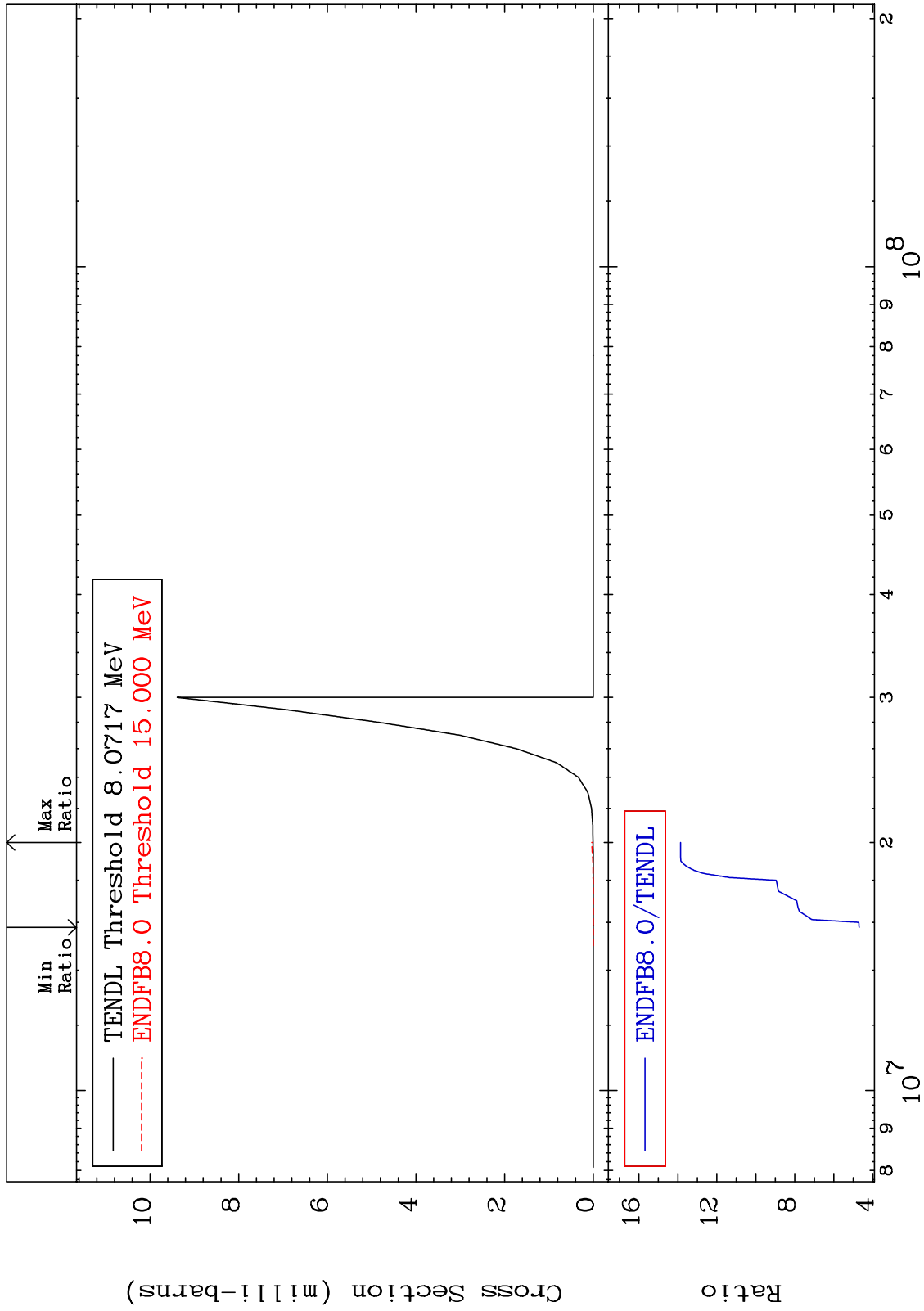
MAT 6631

(n,2n)  $\alpha$

66-Dy-158

Cross Section

369.8 To 1286. %



Incident Energy (eV)

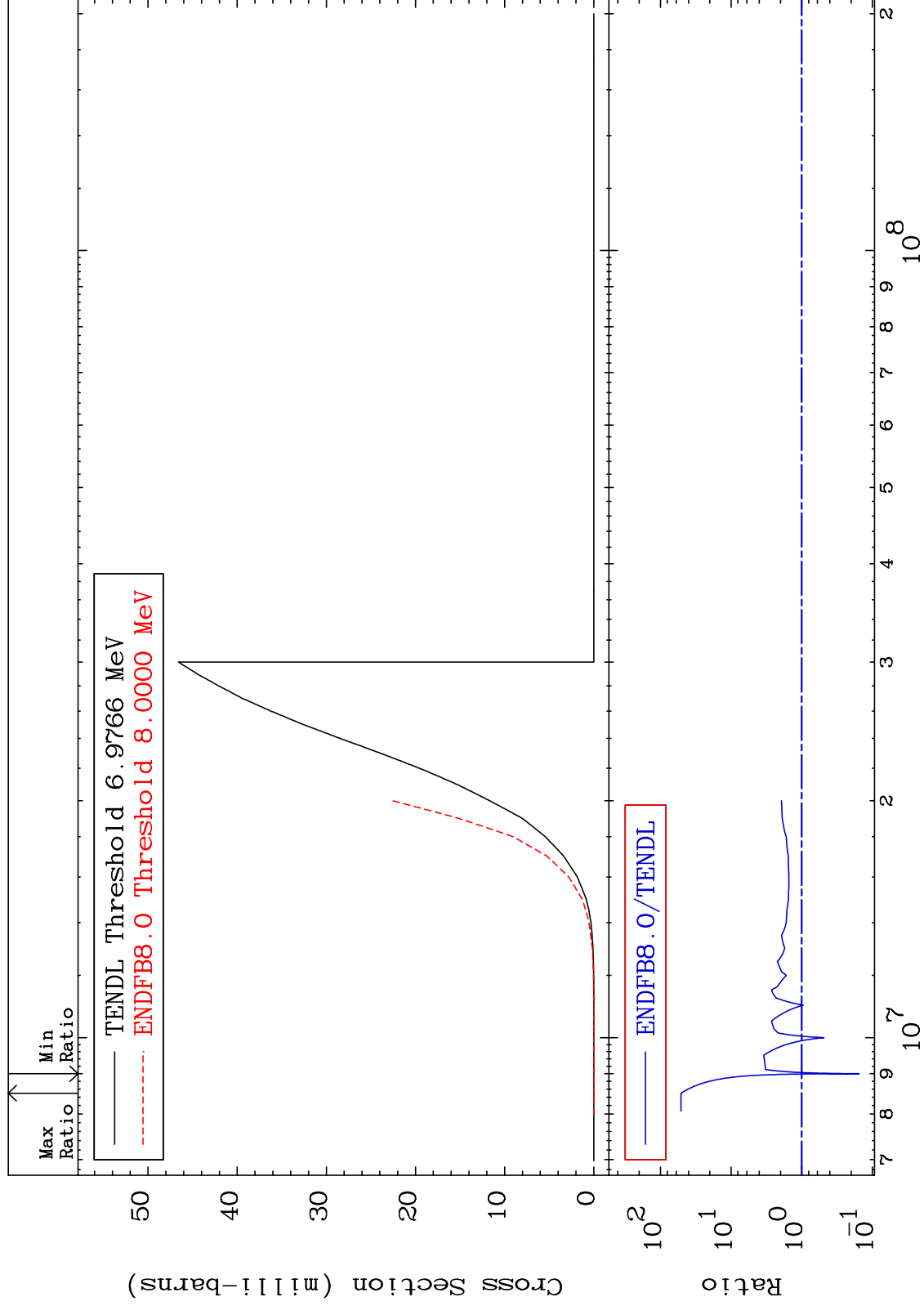
66-Dy-158



MAT 6631

(n,n') p  
Cross Section

66-Dy-158  
-84.66 To 5008. %



8

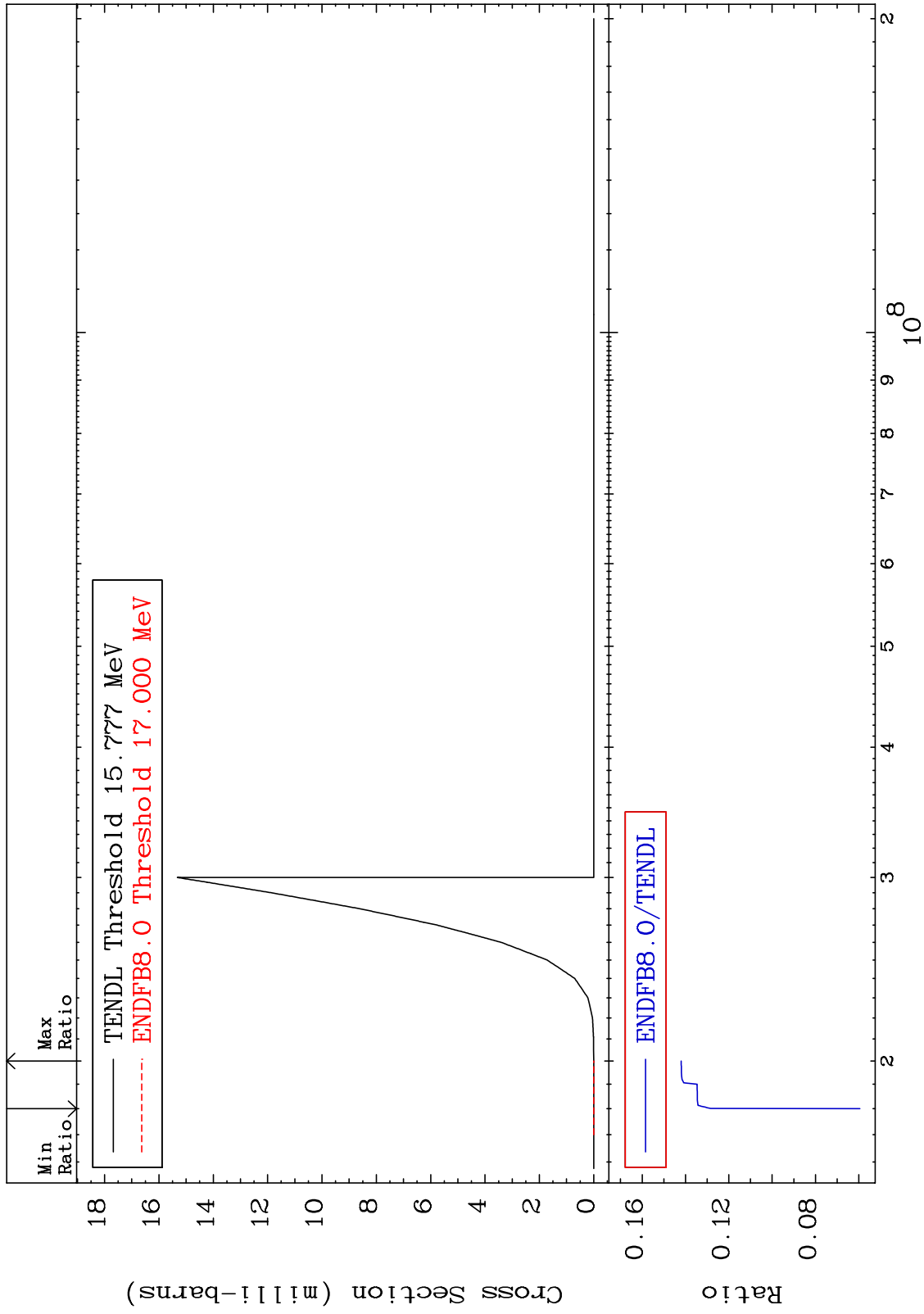
Incident Energy (eV)

66-Dy-158

MAT 6631

(n,2n) p  
Cross Section

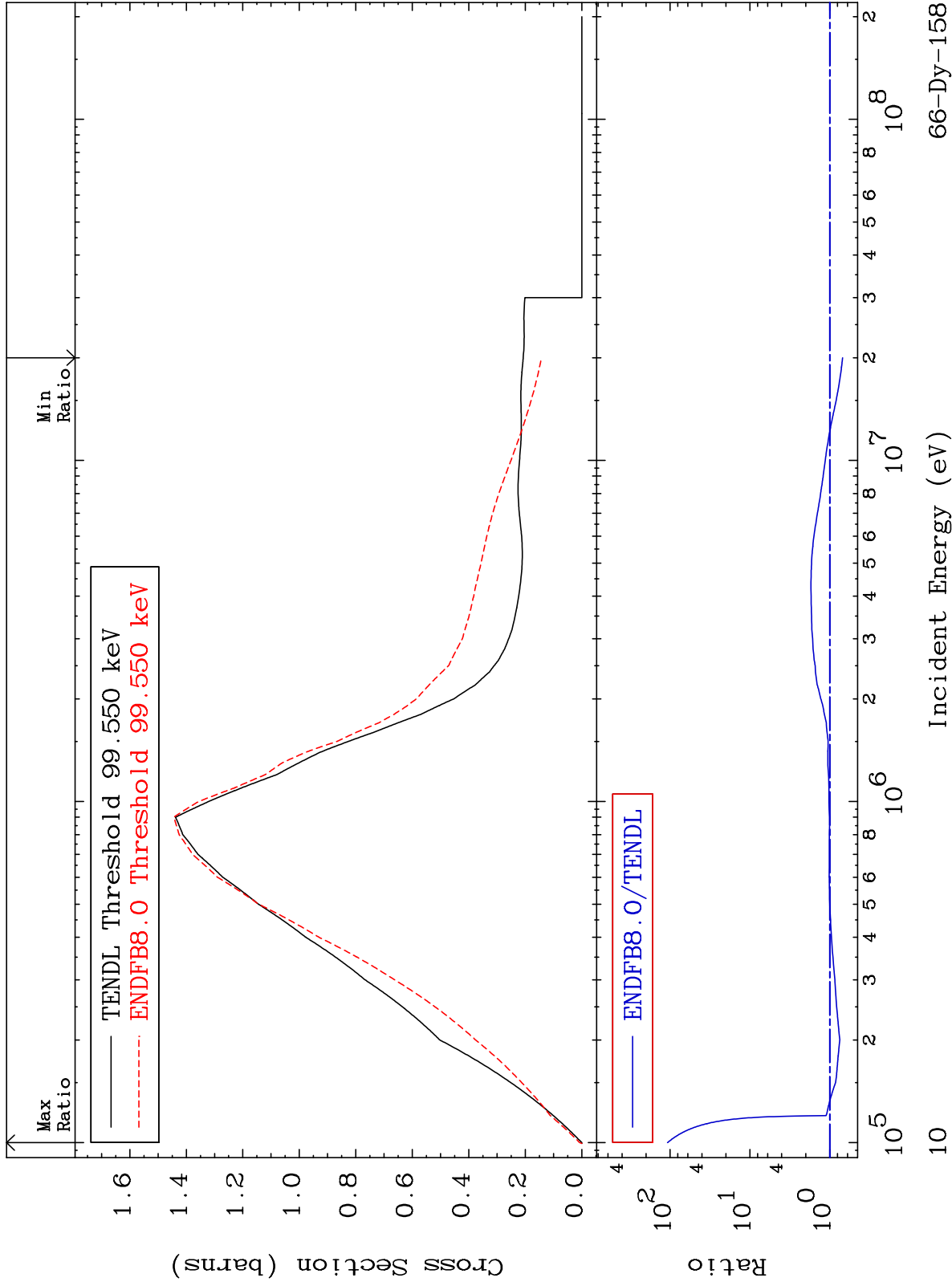
66-Dy-158  
-94.05 To -85.80%



MAT 6631

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

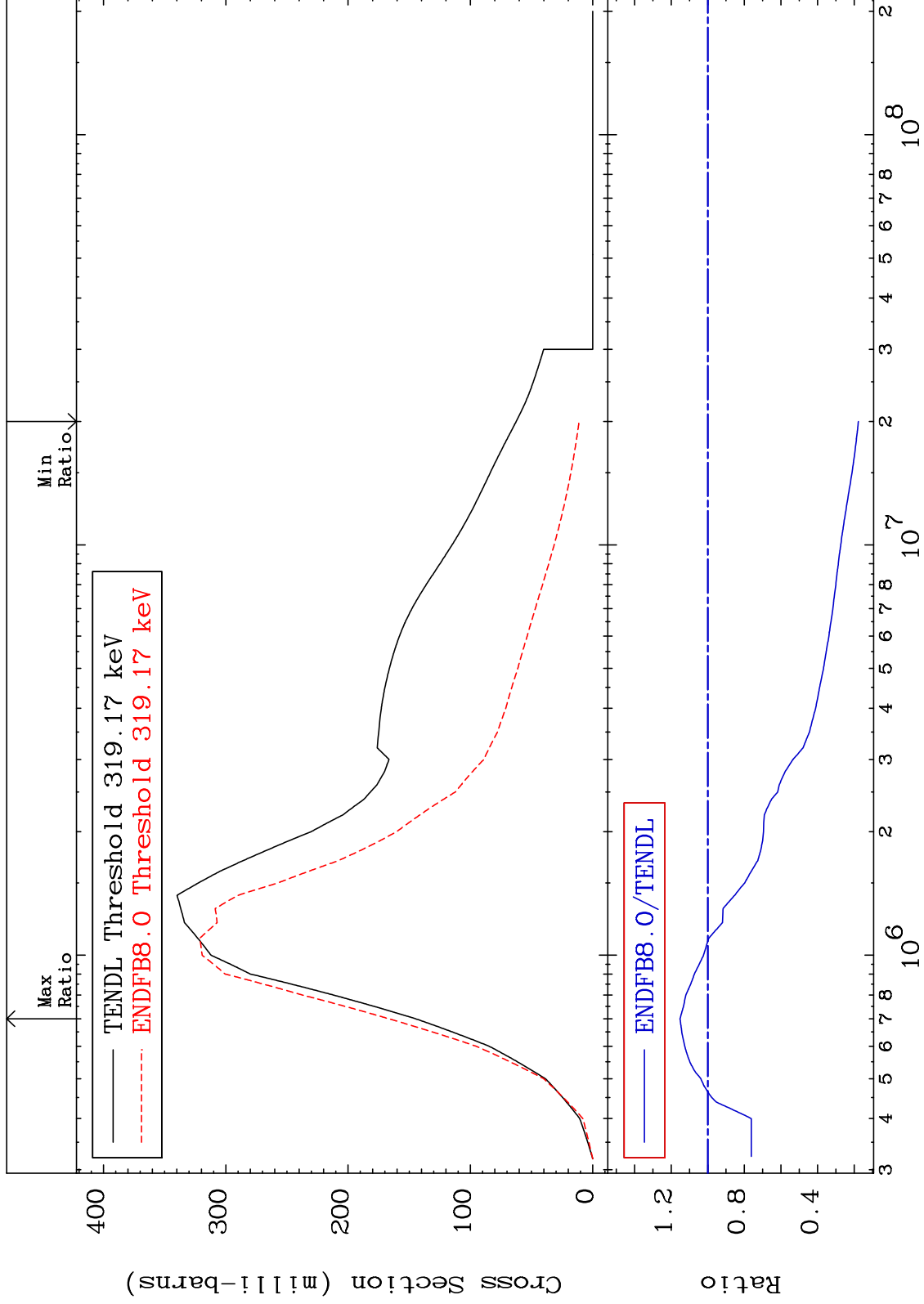
66-Dy-158  
-31.13 To 9999. %



MAT 6631

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

66-Dy-158  
-82.24 To 15.14 %



11

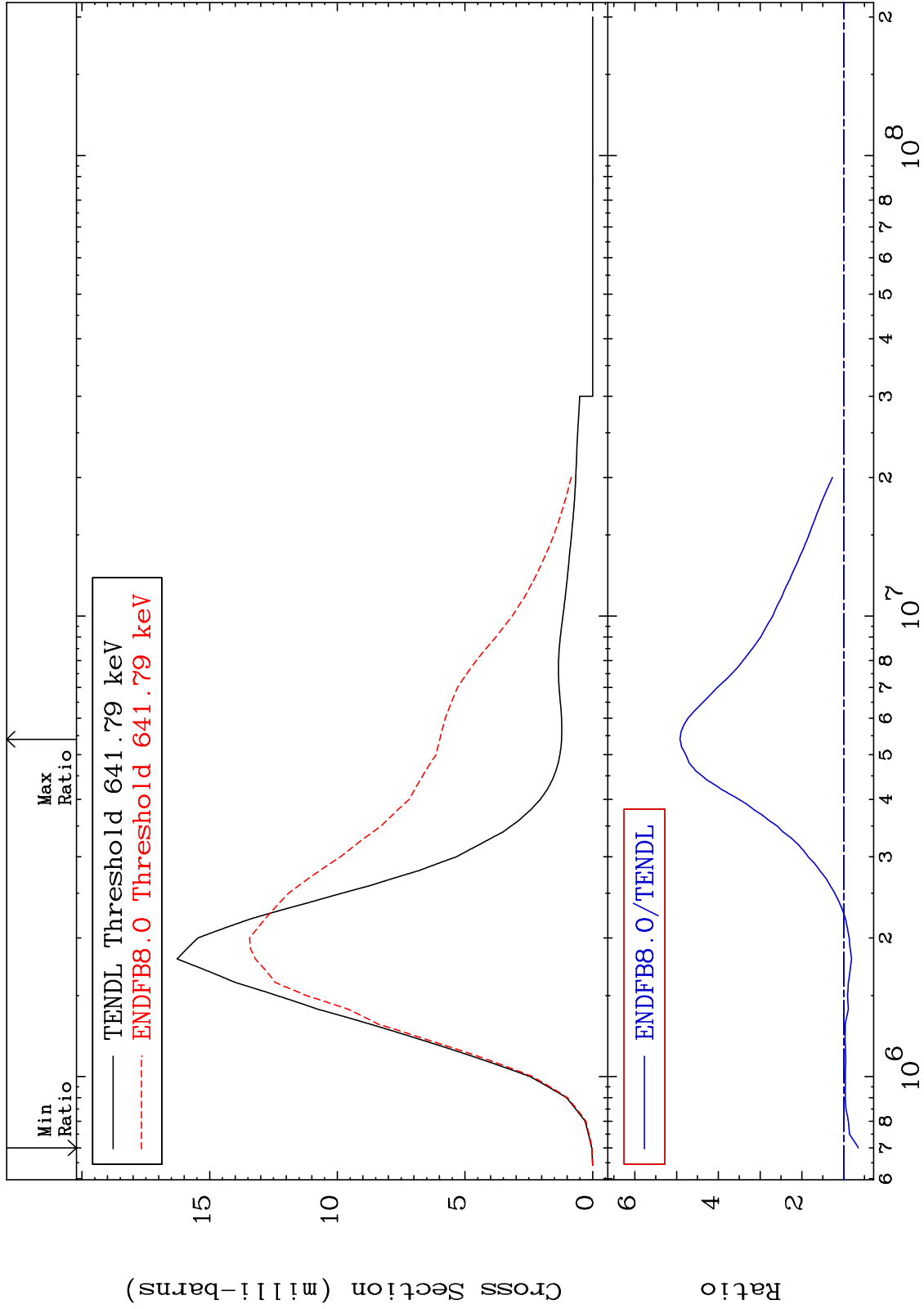
Incident Energy (eV)

66-Dy-158

MAT 6631

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

66-Dy-158  
-35.28 To 391.8 %



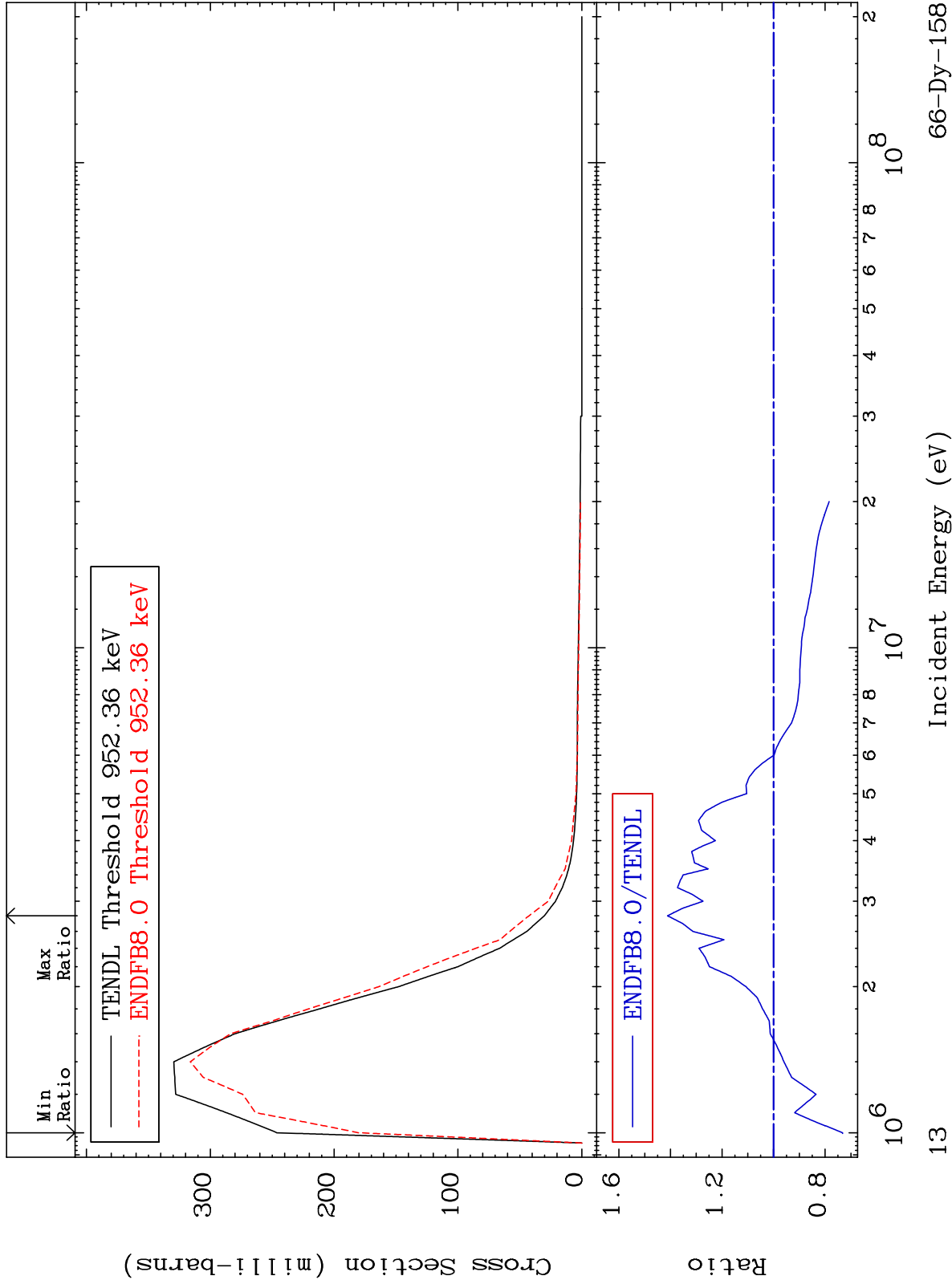
12

66-Dy-158

MAT 6631

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

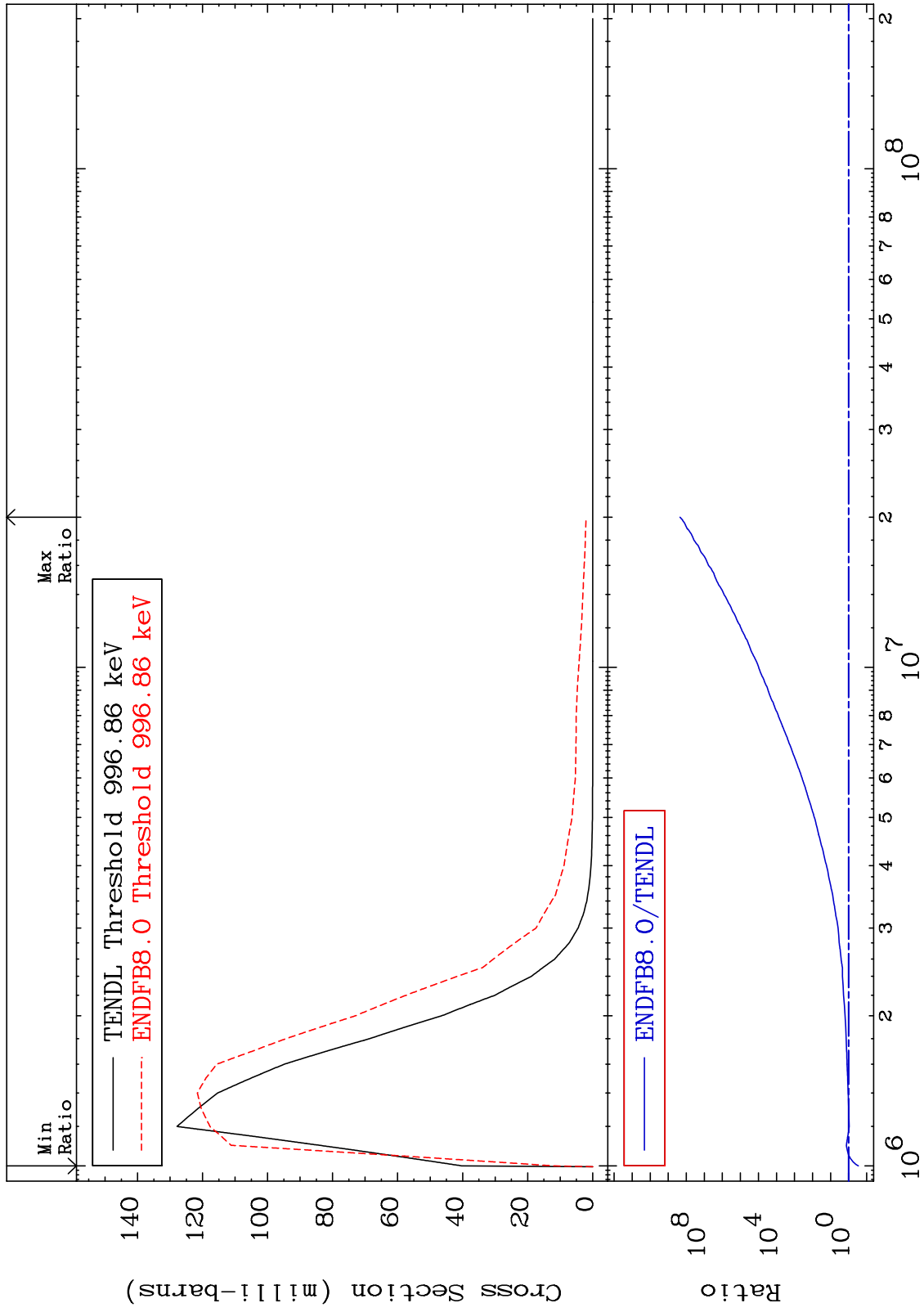
66-Dy-158  
-26.82 To 41.13 %



MAT 6631

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

66-Dy-158  
-71.34 To 9999. %



14

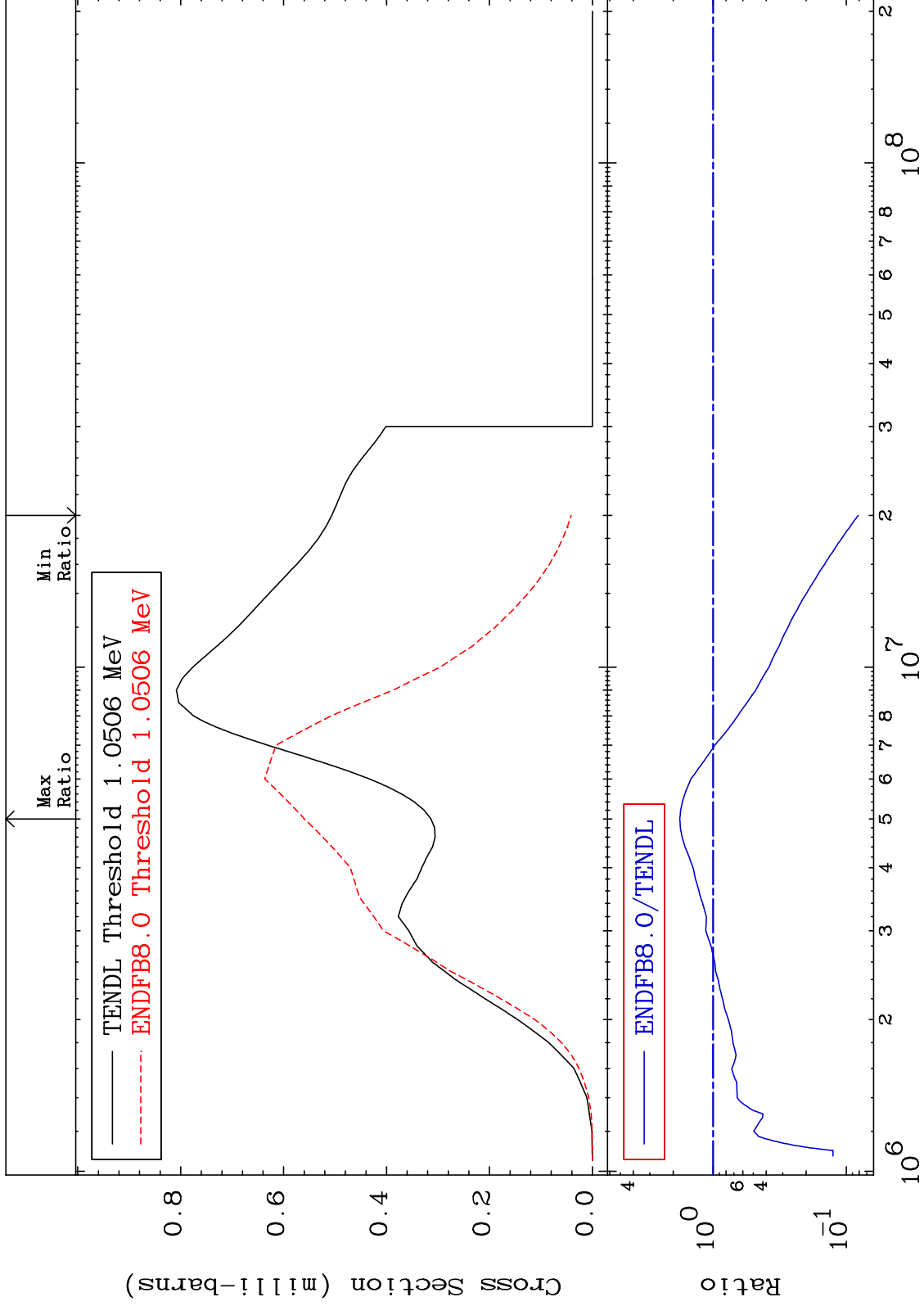
Incident Energy (eV)

66-Dy-158

MAT 6631

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

66-Dy-158  
-91.89 To 78.36 %



15

Incident Energy (eV)

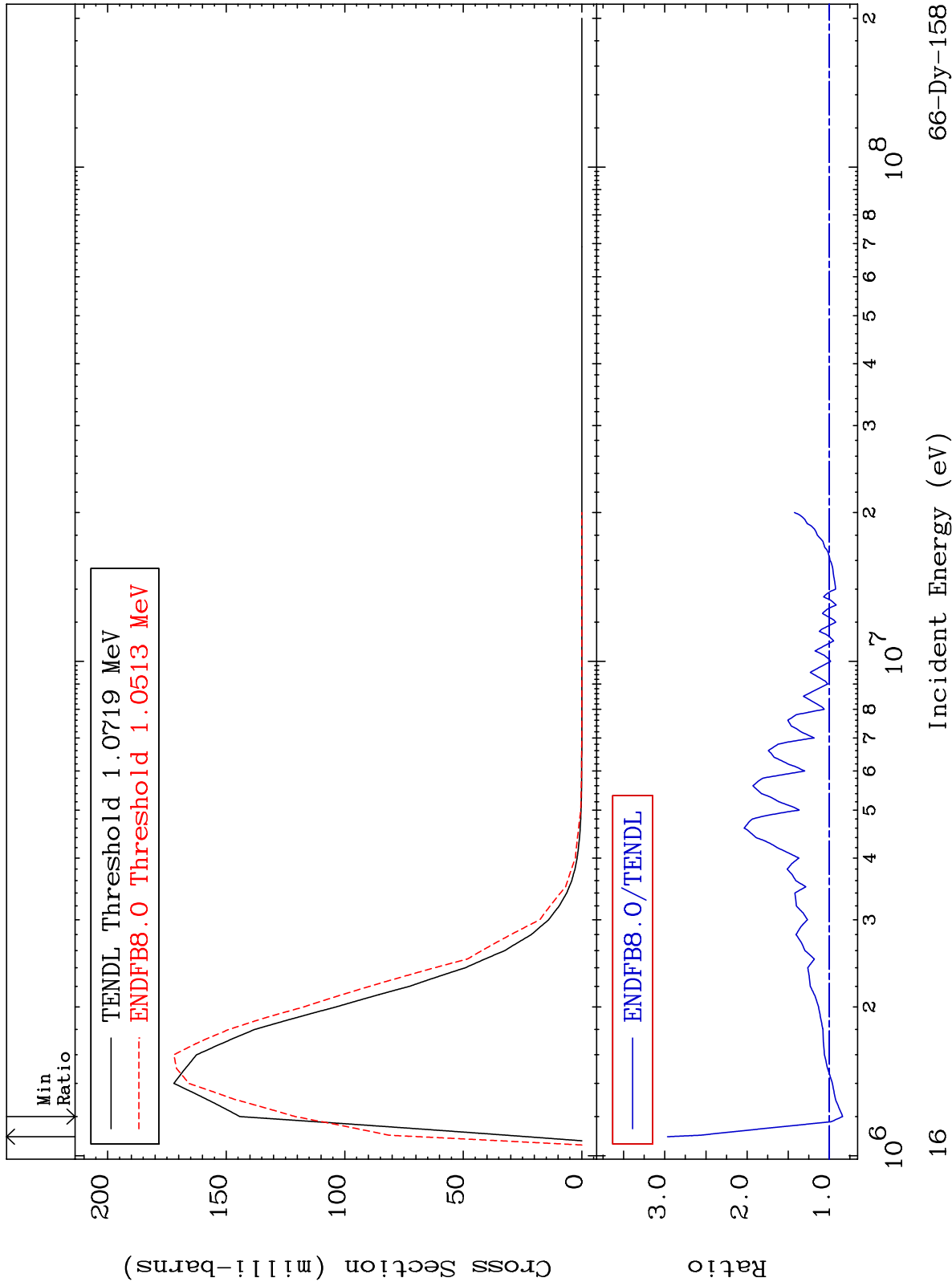
66-Dy-158



MAT 6631

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

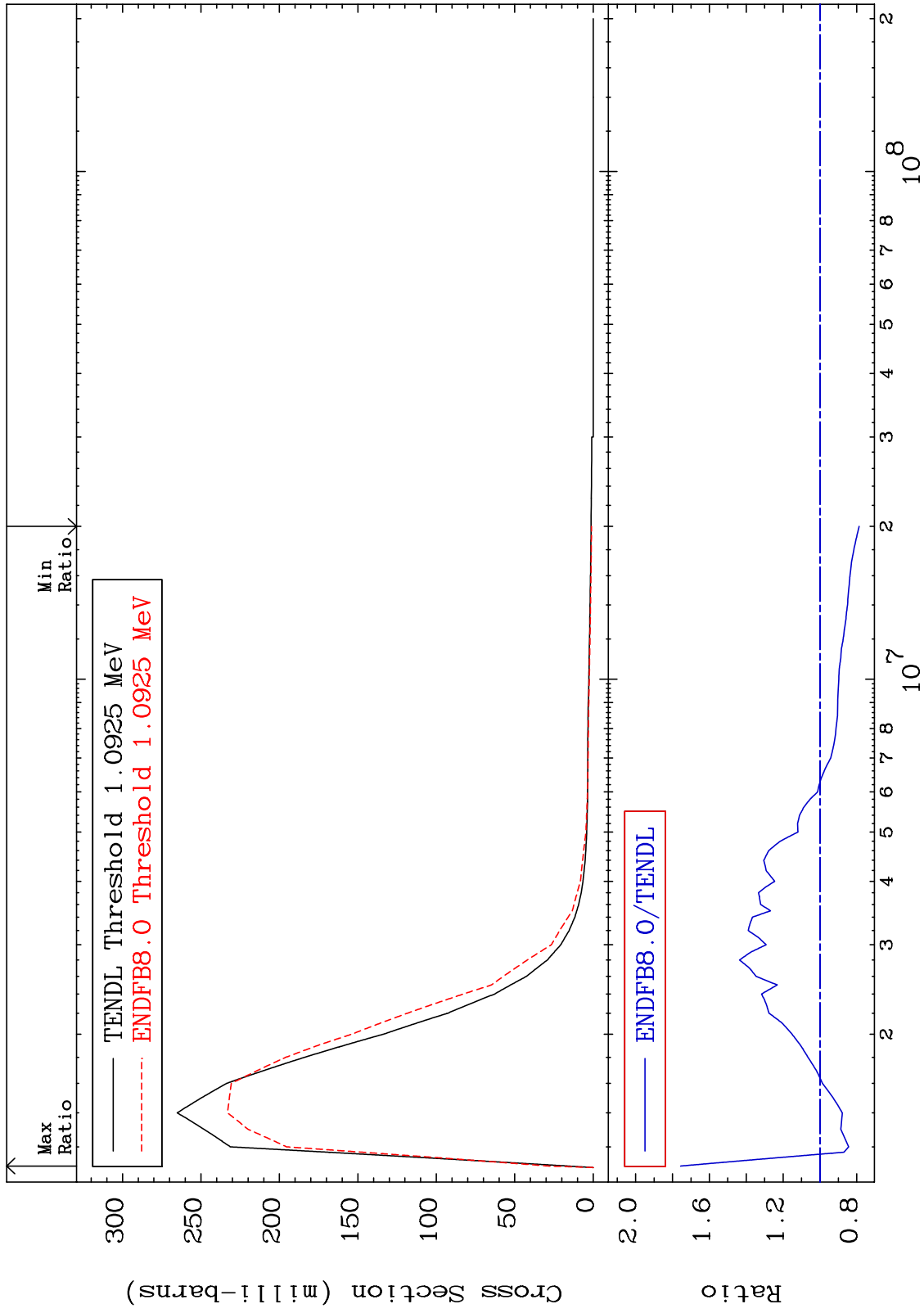
66-Dy-158  
-16.15 To 196.6 %



MAT 6631

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

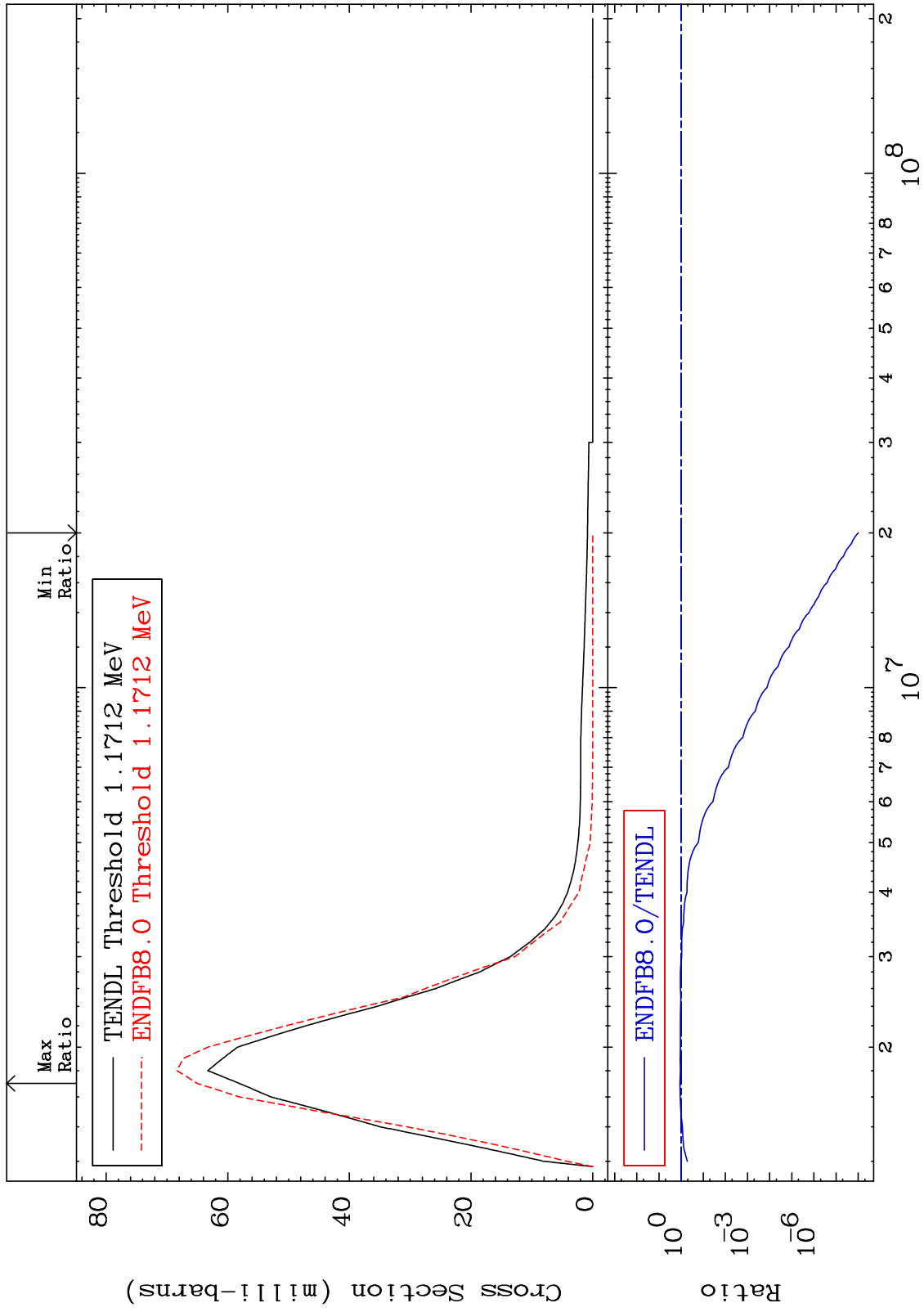
66-Dy-158  
-21.27 To 75.60 %



MAT 6631

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

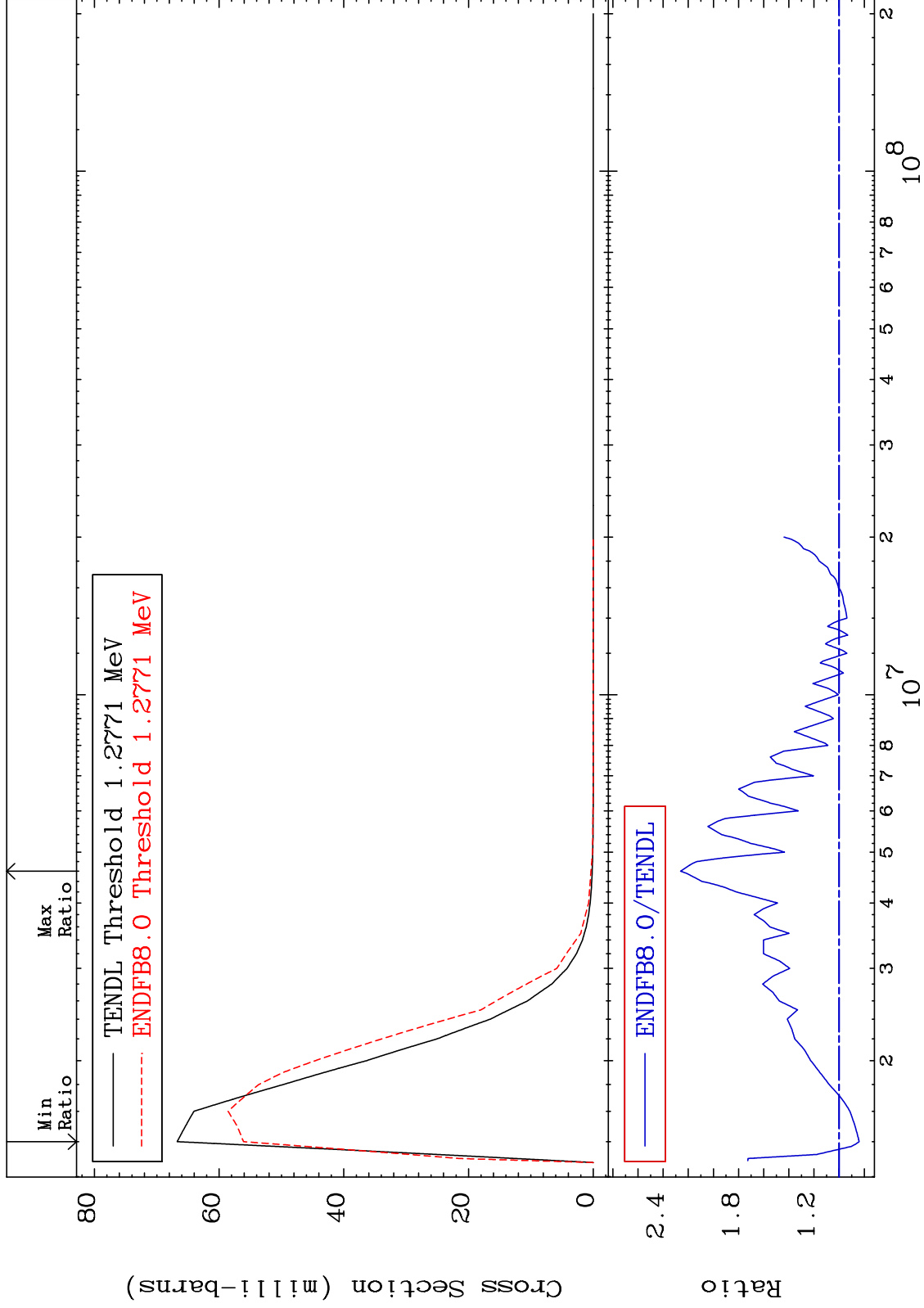
66-Dy-158  
-100.0 To 11.92 %



MAT 6631

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

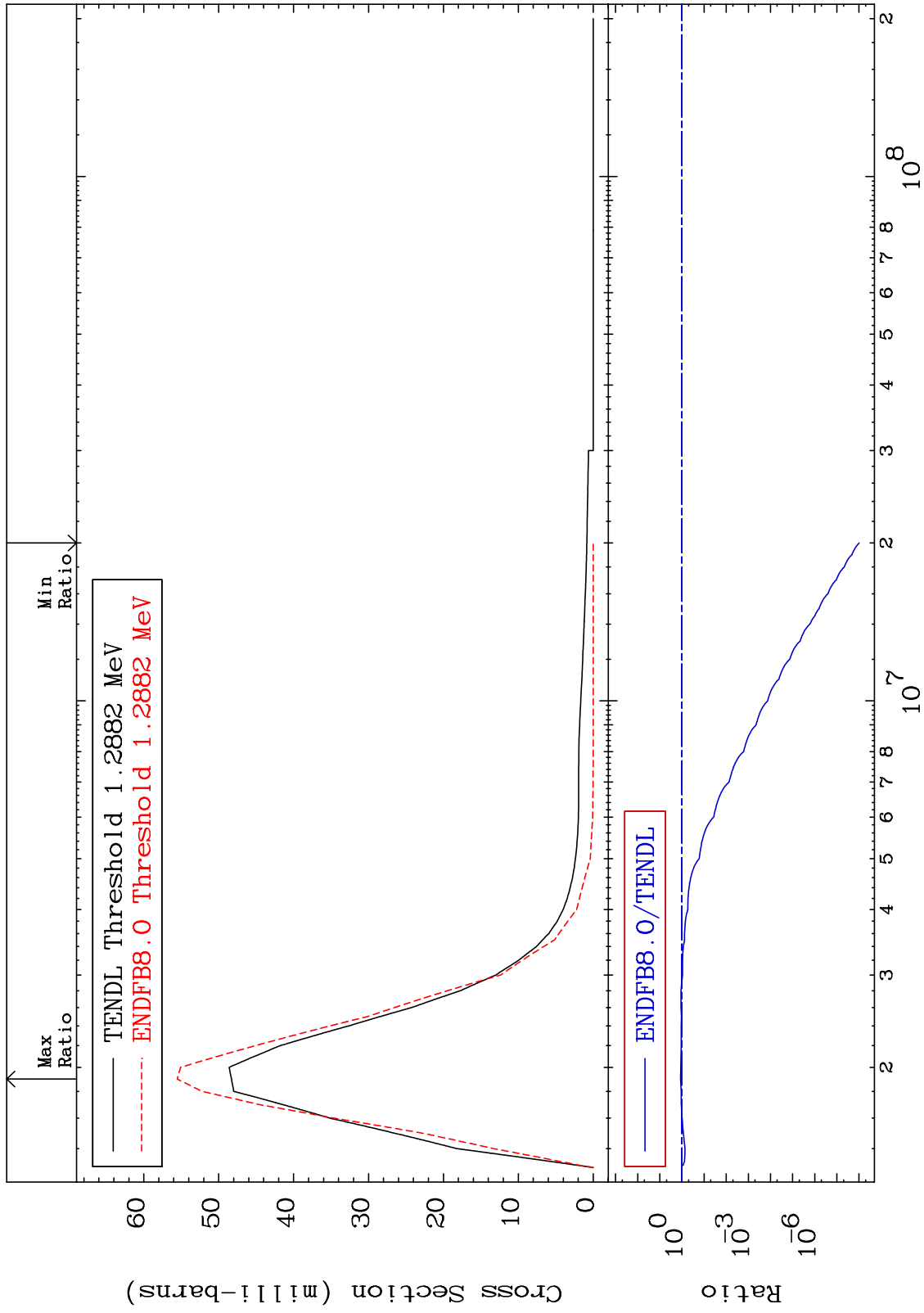
66-Dy-158  
-15.93 To 126.1 %



MAT 6631

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

66-Dy-158  
-100.0 To 14.99 %



20

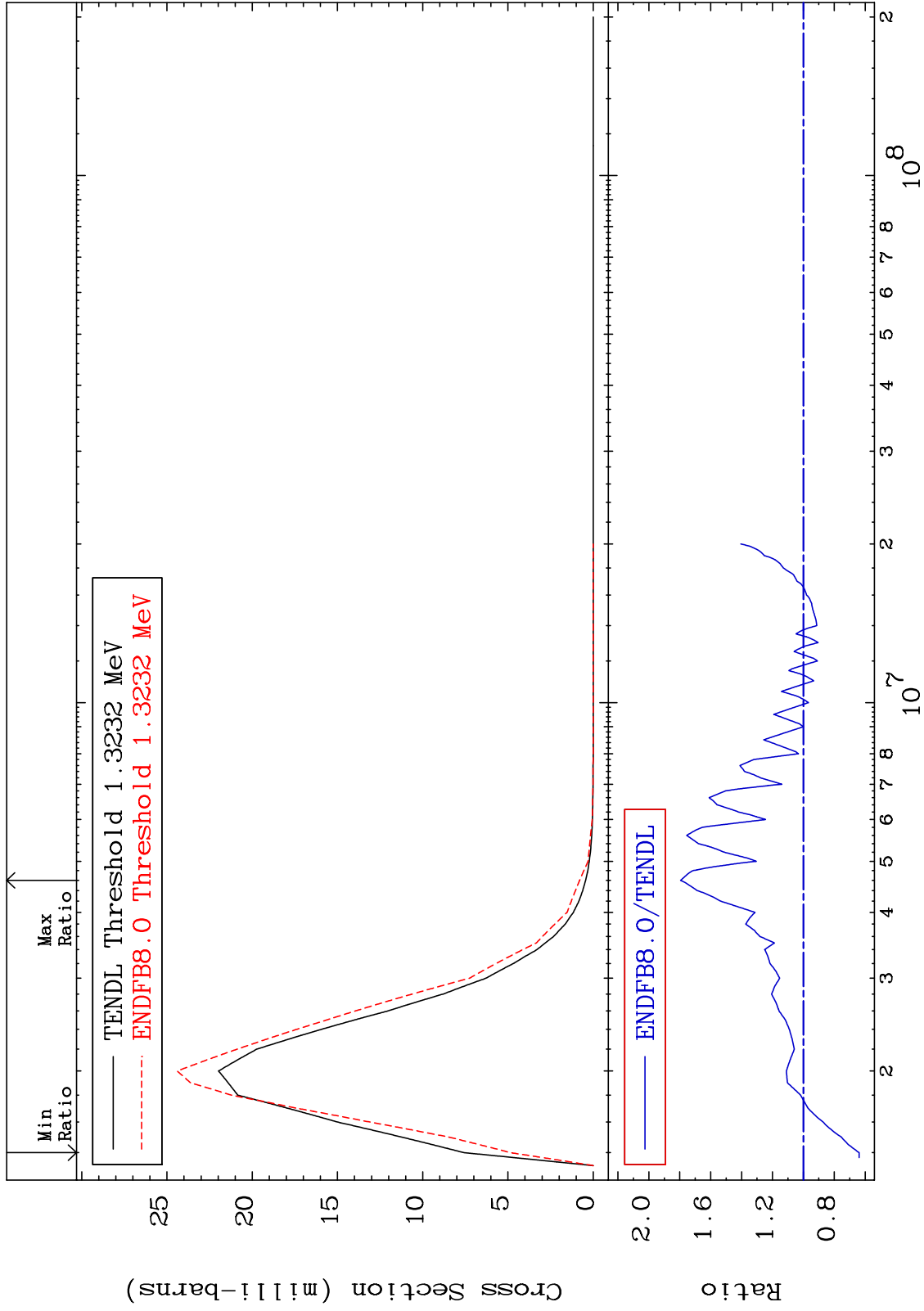
Incident Energy (eV)

66-Dy-158

MAT 6631

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

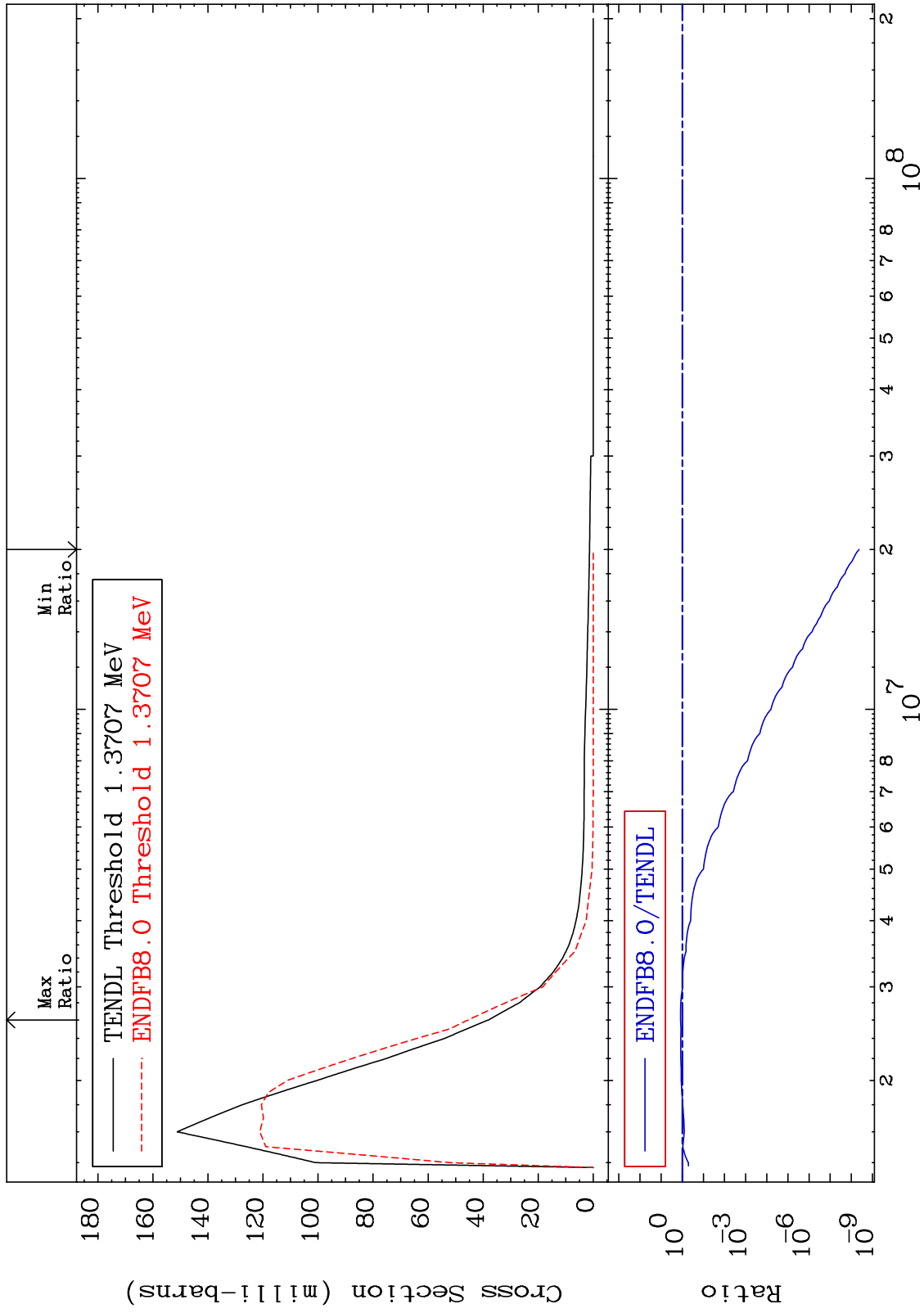
66-Dy-158  
-36.13 To 79.46 %



MAT 6631

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

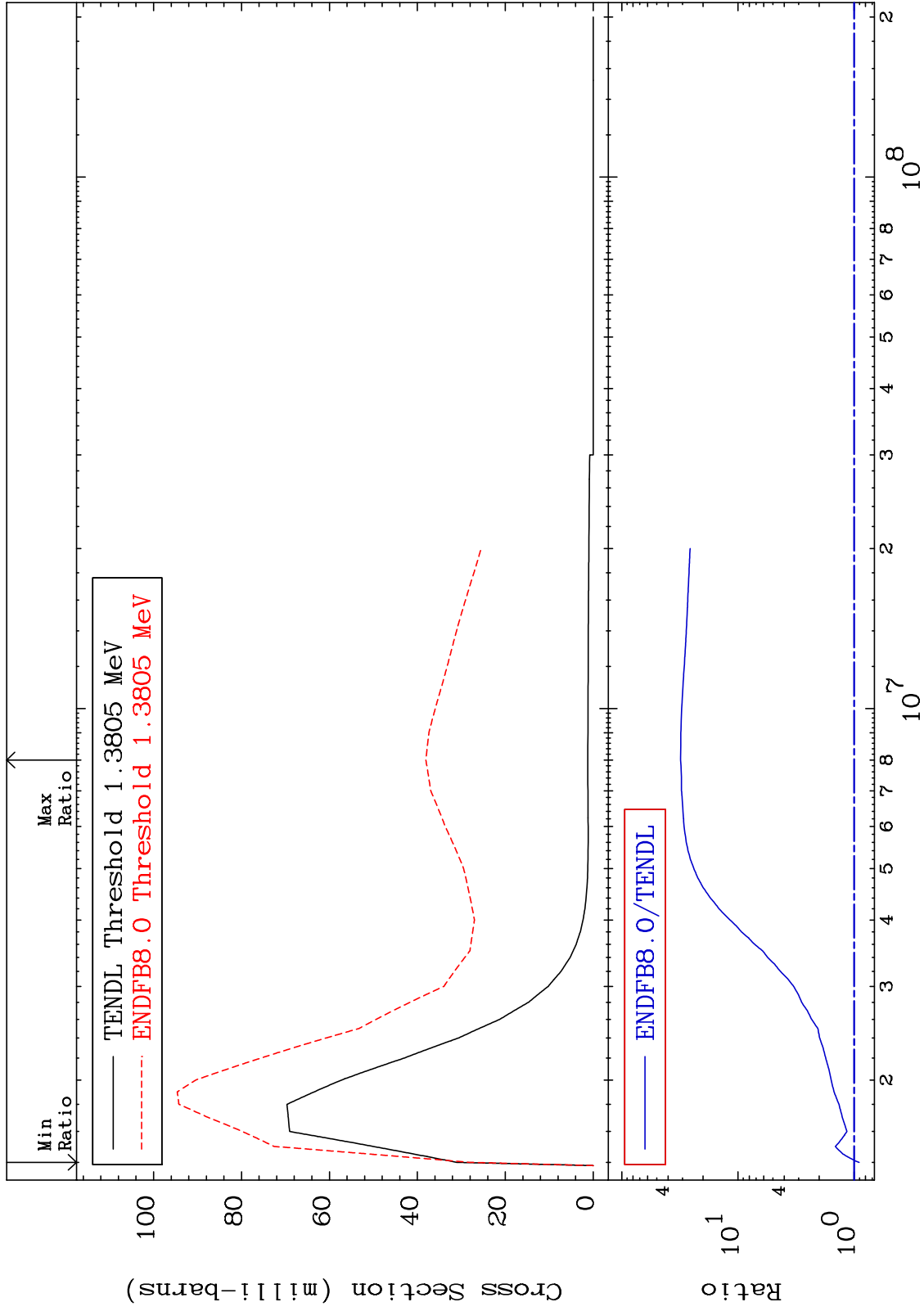
66-Dy-158  
-100.0 To 19.45 %



MAT 6631

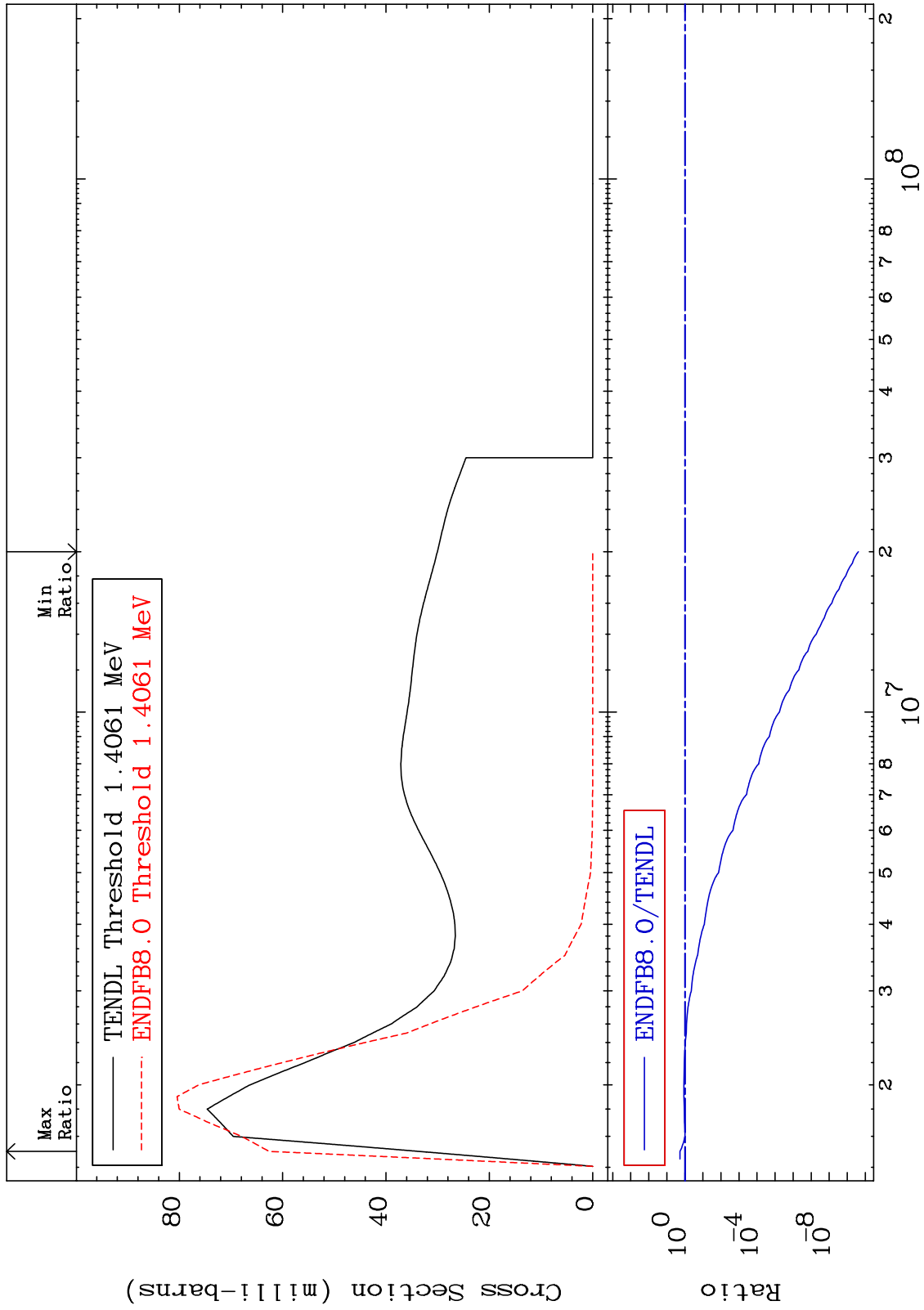
MT= 64 (n,n') Level  
Cross Section

66-Dy-158  
-9.413 To 3016. %





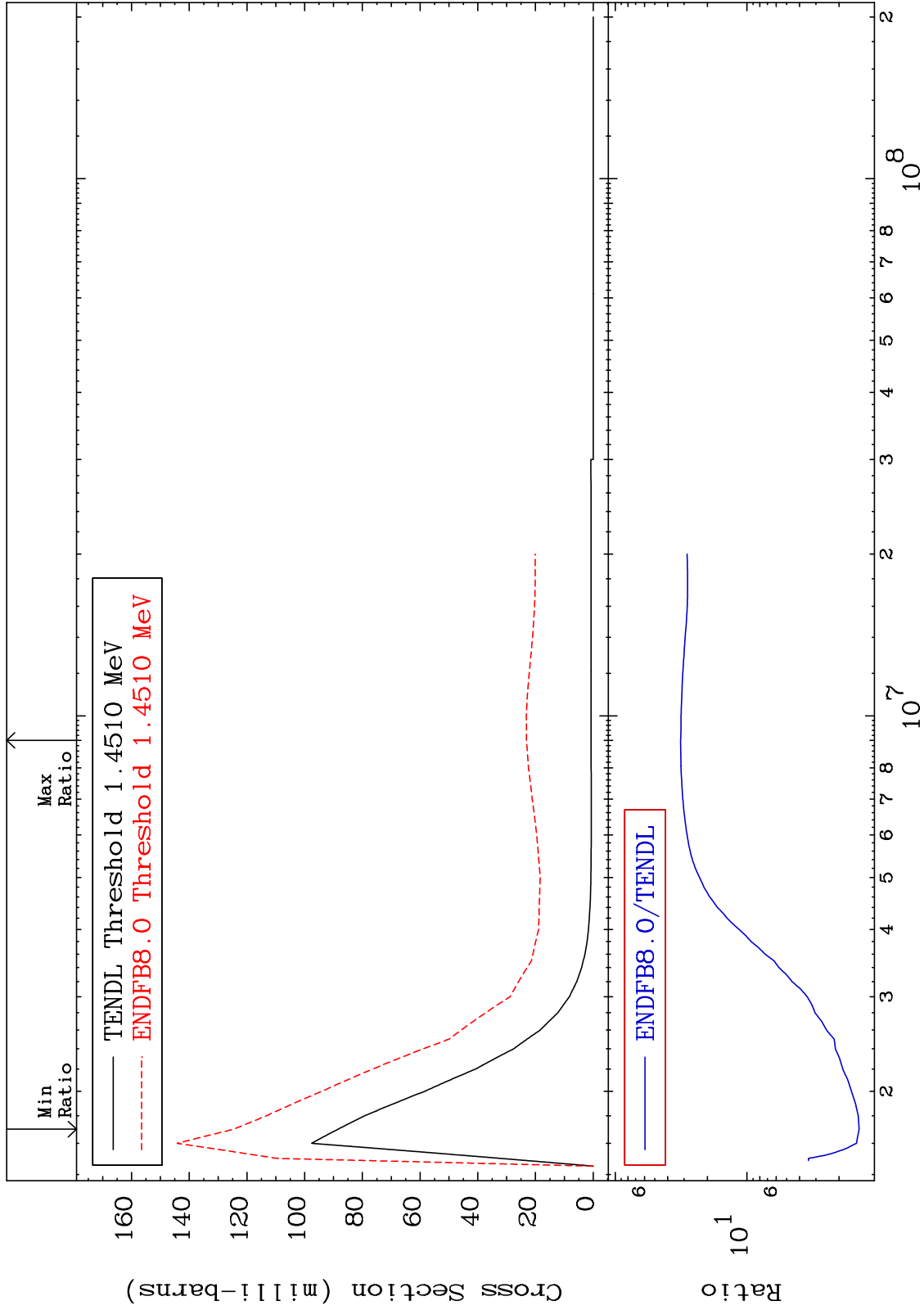
MAT 6631      MT= 65 (n,n') Level      66-Dy-158  
 Cross Section      -100.0 To 85.89 %



MAT 6631

MT= 66 (n,n') Level  
Cross Section

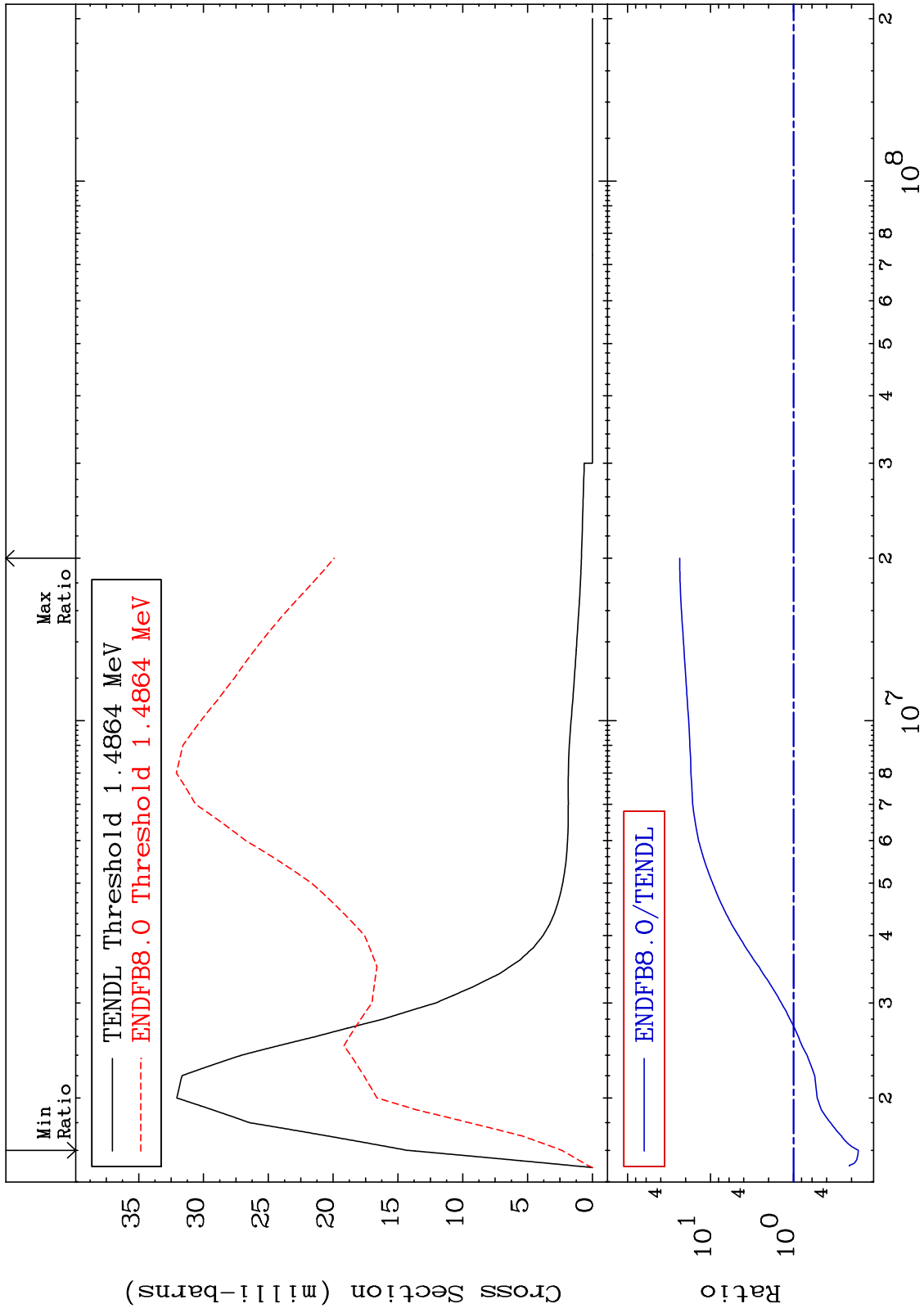
66-Dy-158  
40.84 To 3090. %



MAT 6631

MT= 67 (n,n') Level  
Cross Section

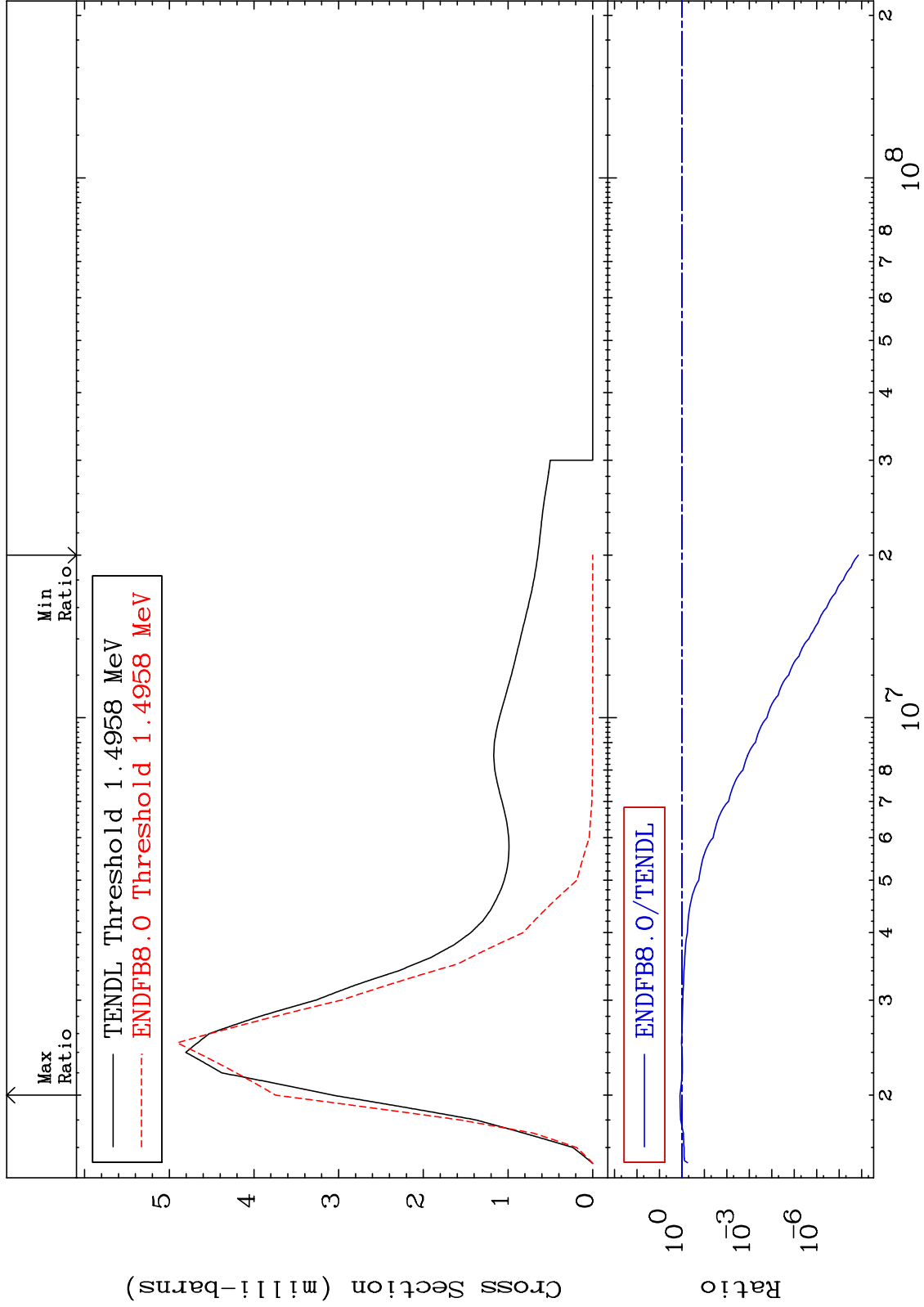
66-Dy-158  
-83.43 To 2252. %



MAT 6631

MT= 68 (n,n') Level  
Cross Section

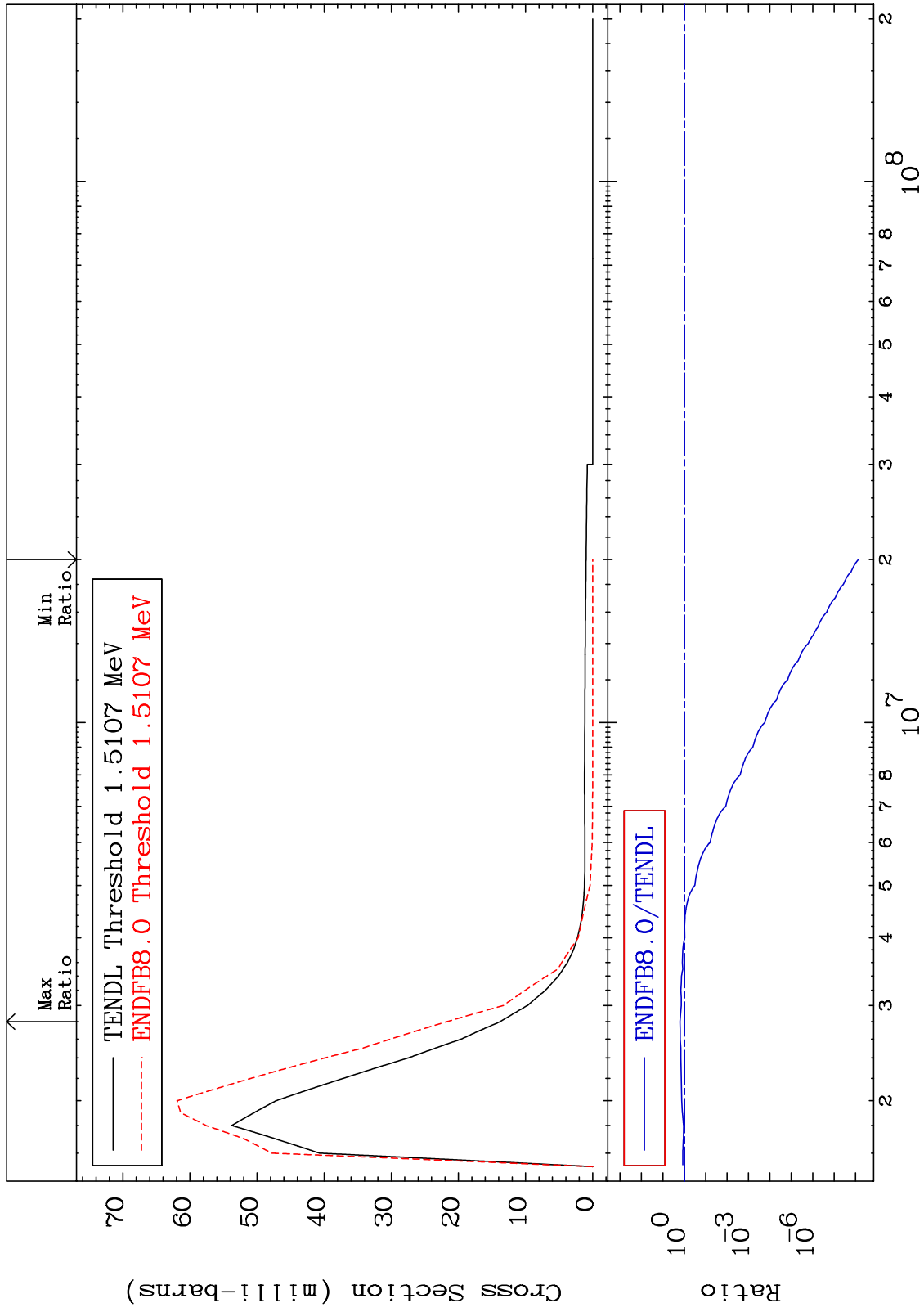
66-Dy-158  
-100.0 To 21.92 %



MAT 6631

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

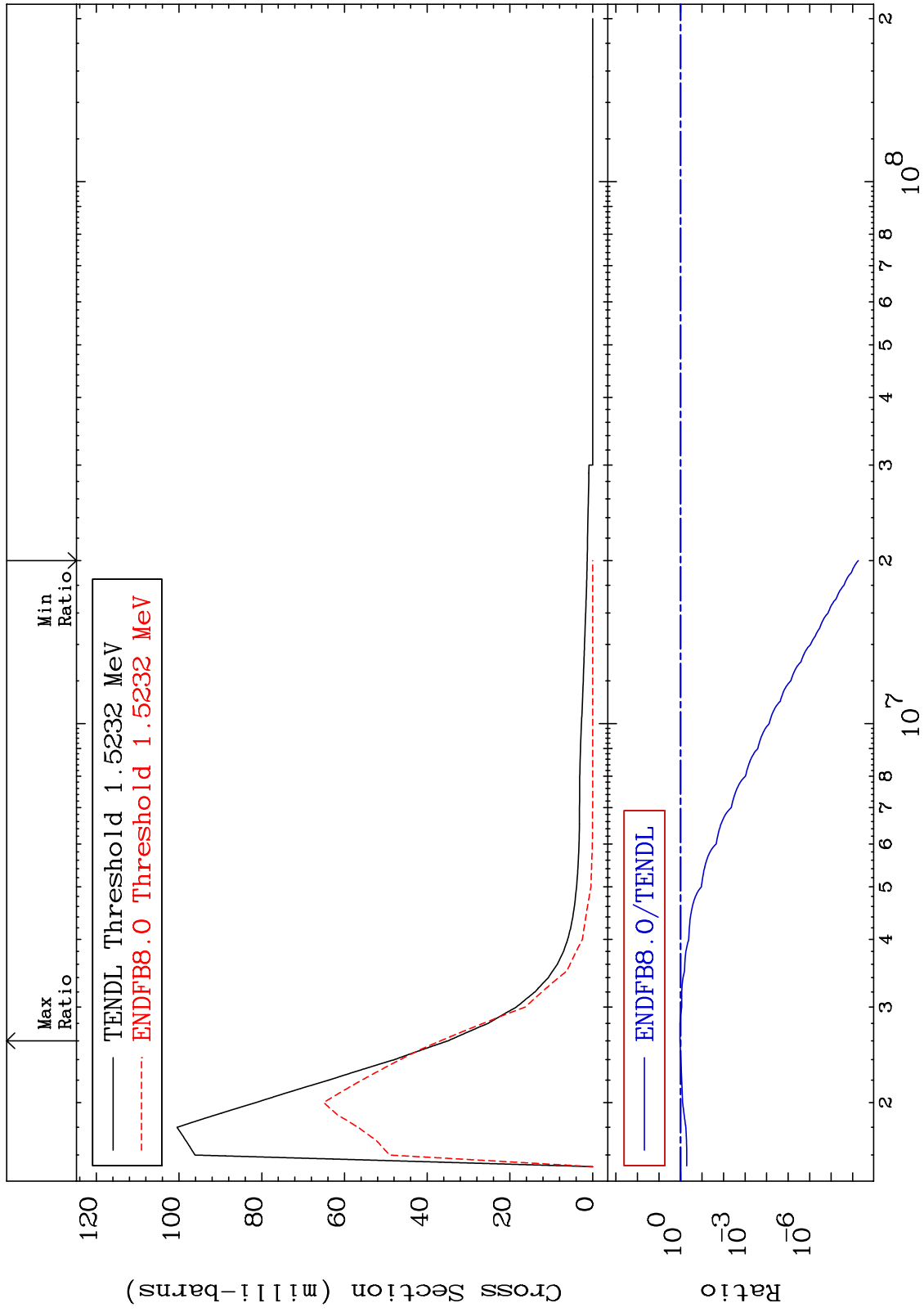
66-Dy-158  
-100.0 To 57.54 %



MAT 6631

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

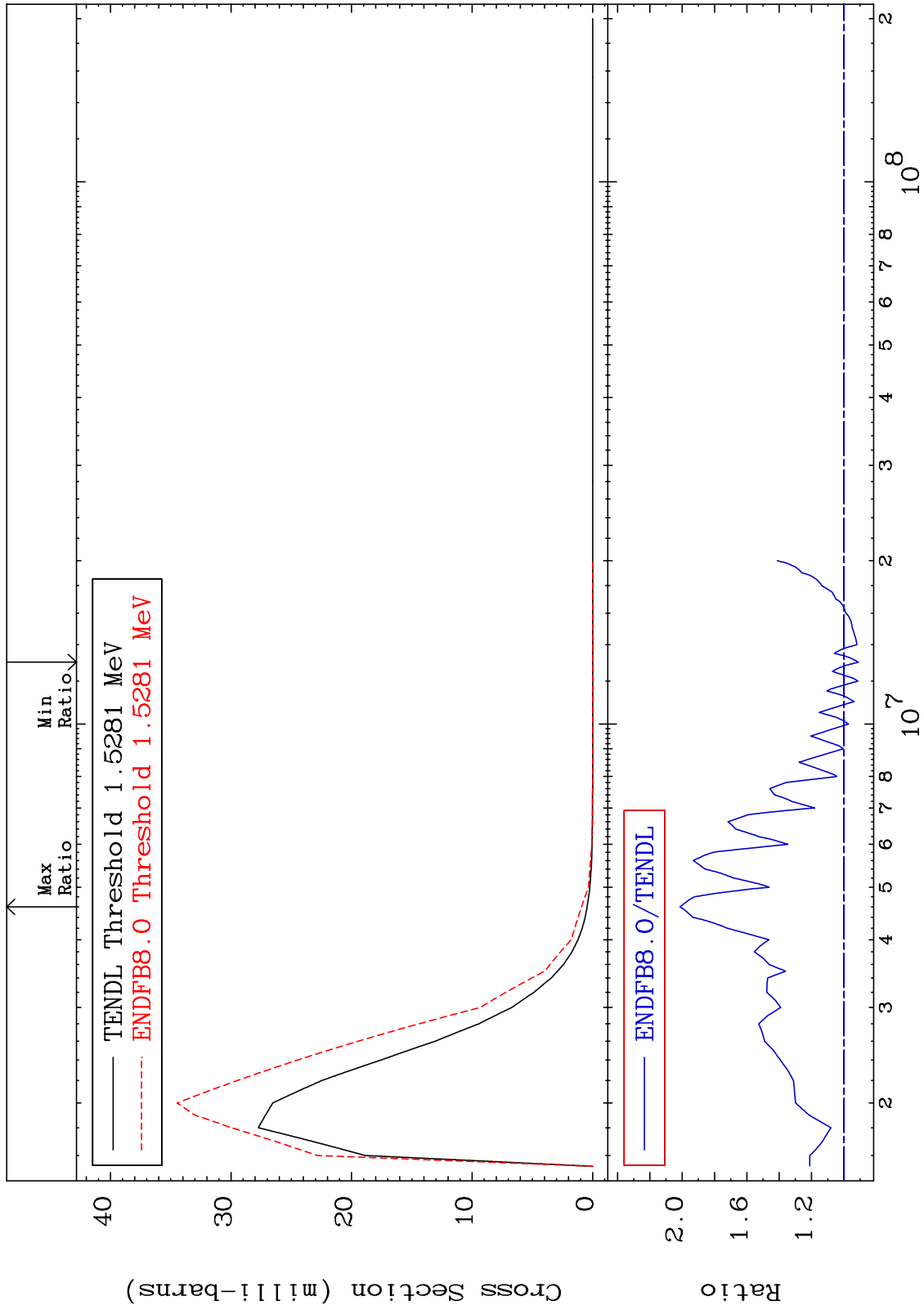
66-Dy-158  
-100.0 To 5.266 %



MAT 6631

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

66-Dy-158  
-8.972 To 101.4 %



30

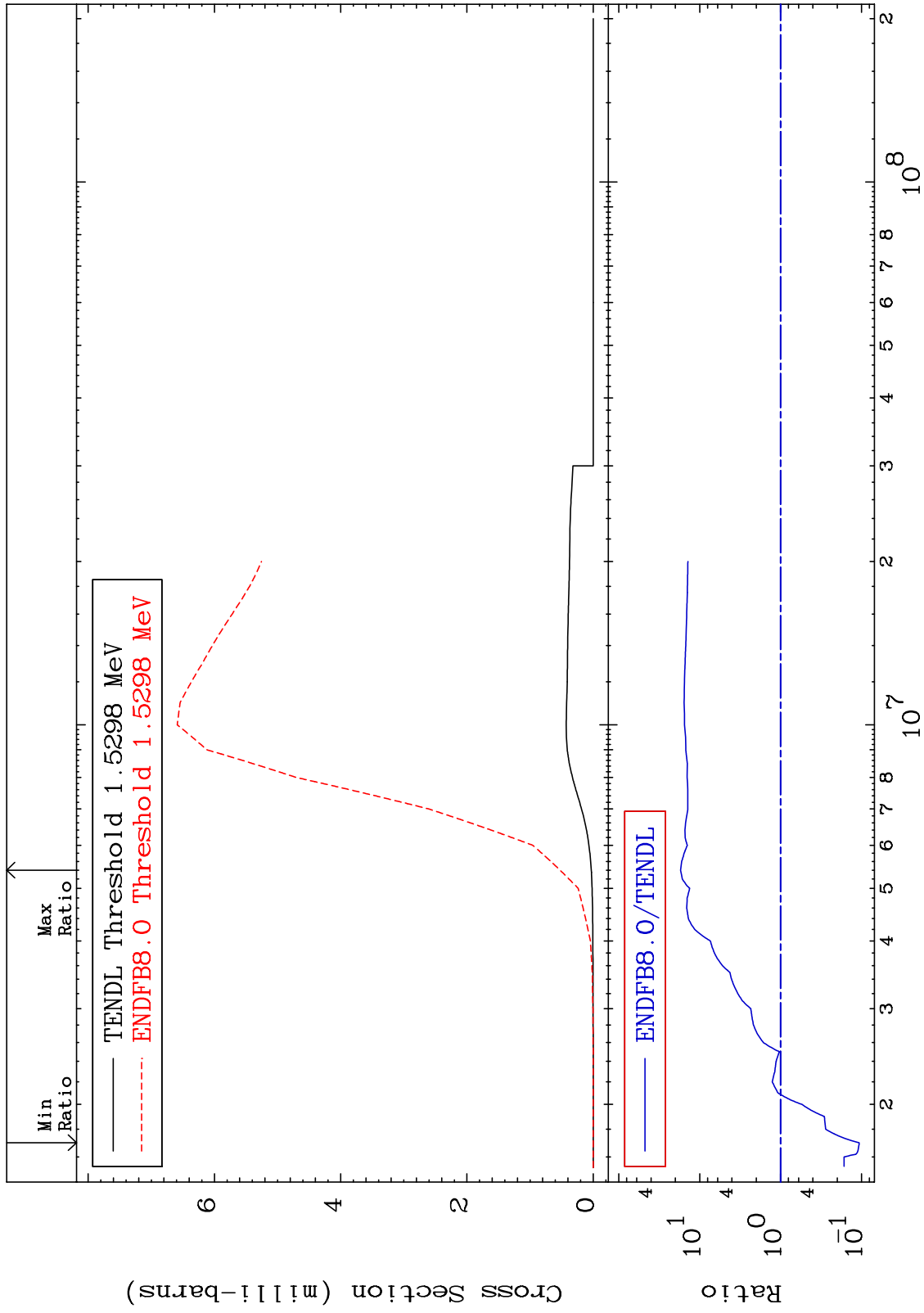
Incident Energy (eV)

66-Dy-158

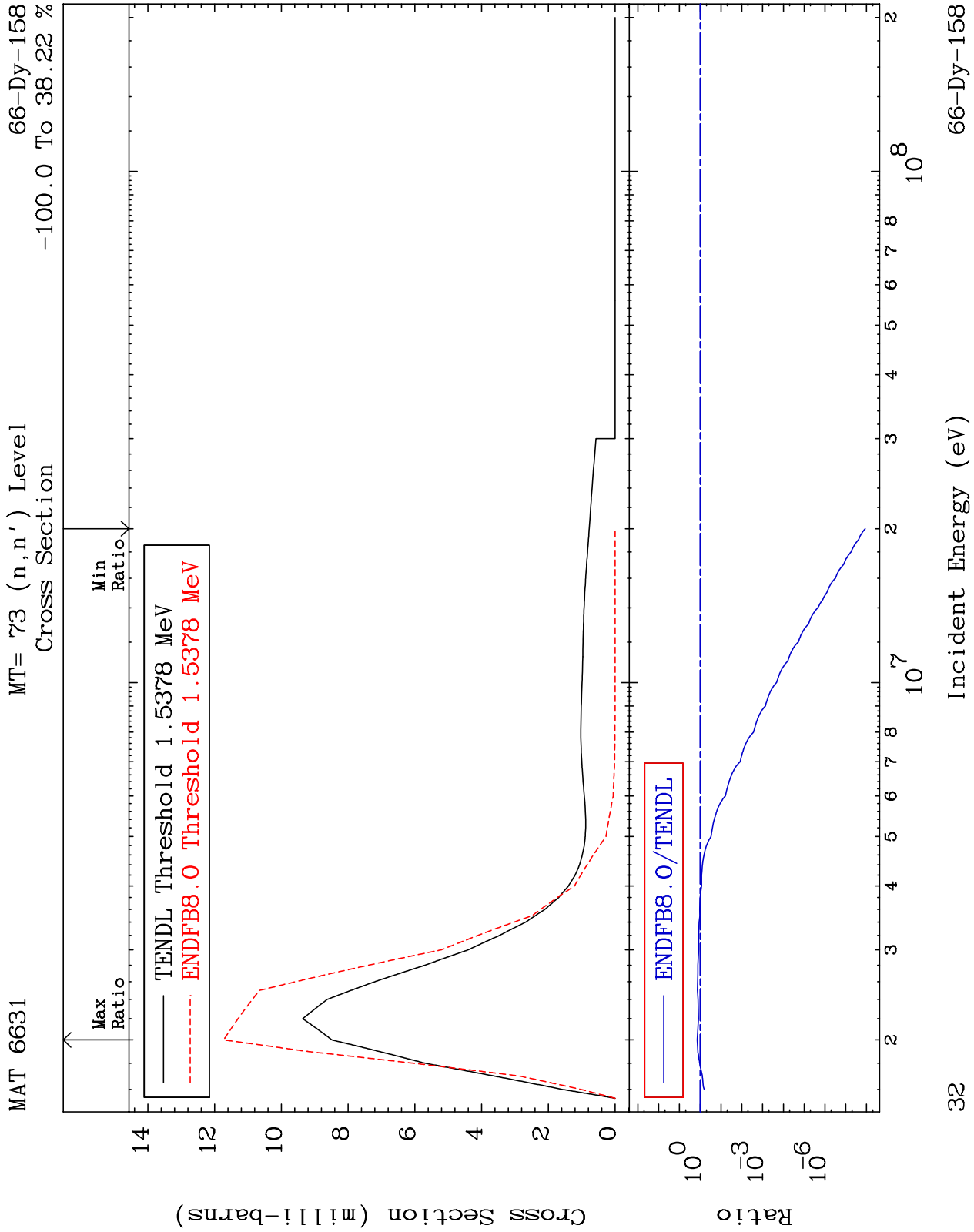
MAT 6631

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

66-Dy-158  
-89.29 To 1621. %



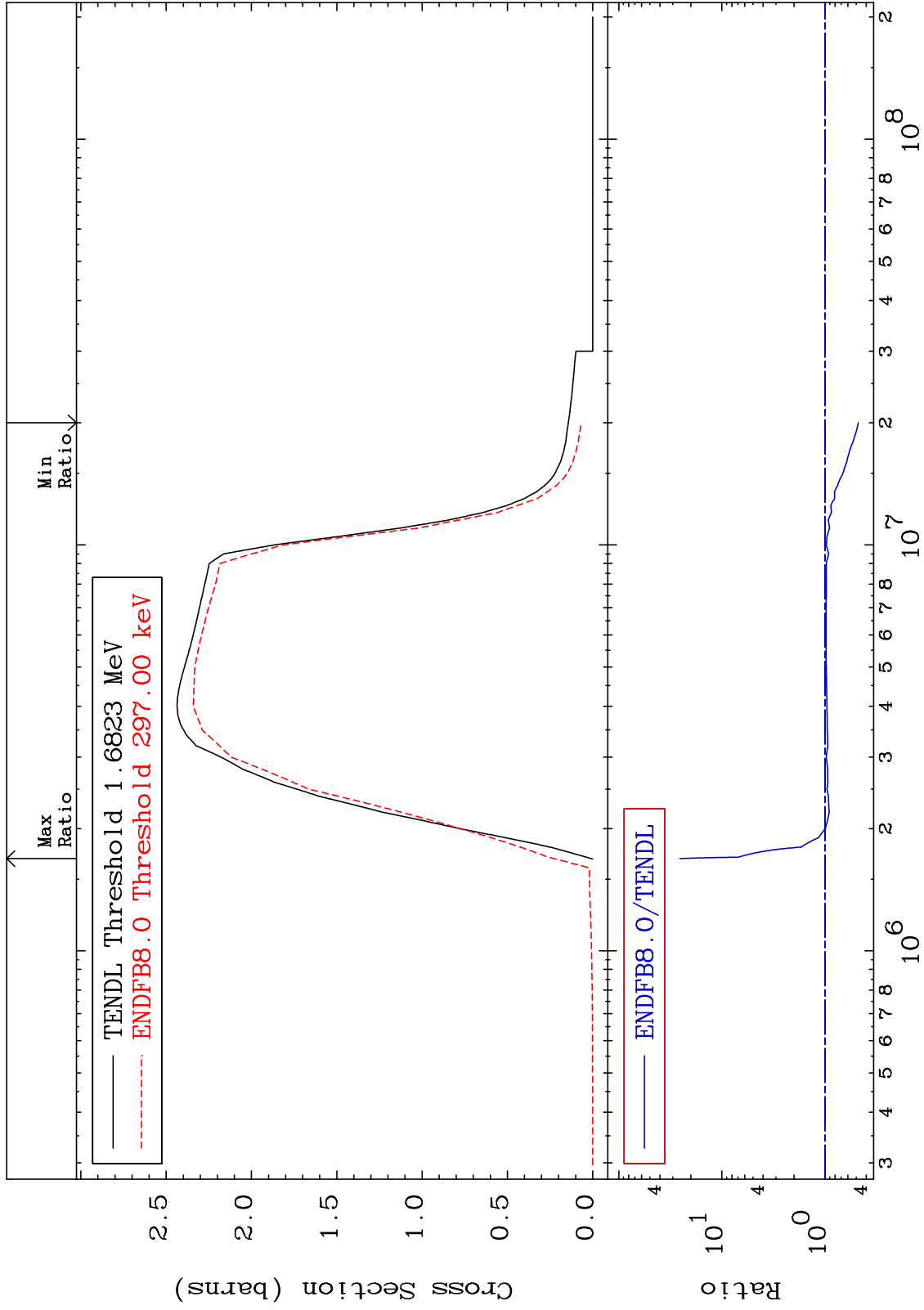




MAT 6631

(n, n') Continuum  
Cross Section

66-Dy-158  
-52.49 To 2449. %



33

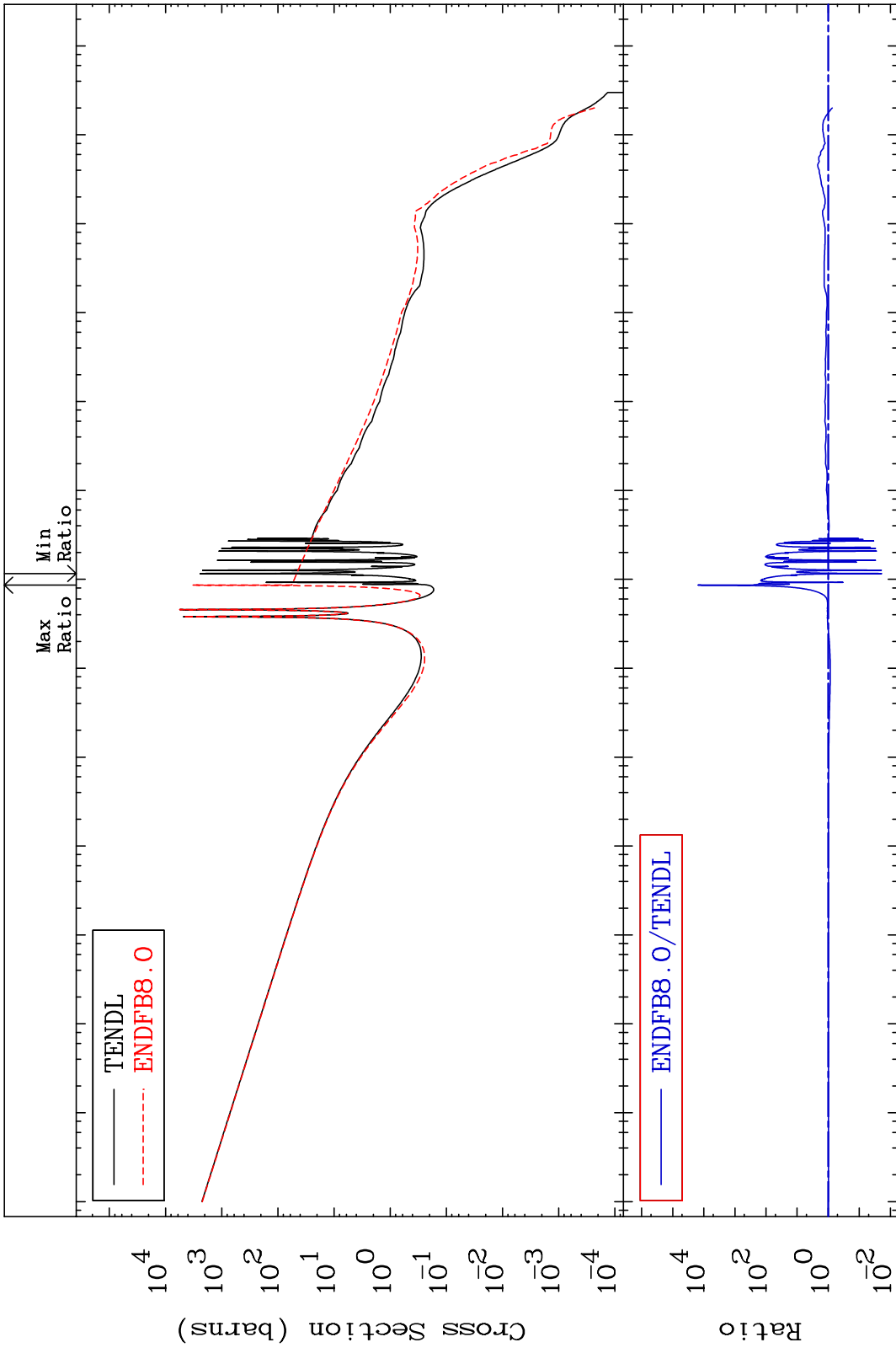
Incident Energy (eV)

66-Dy-158

MAT 6631

(n,  $\gamma$ )  
Cross Section

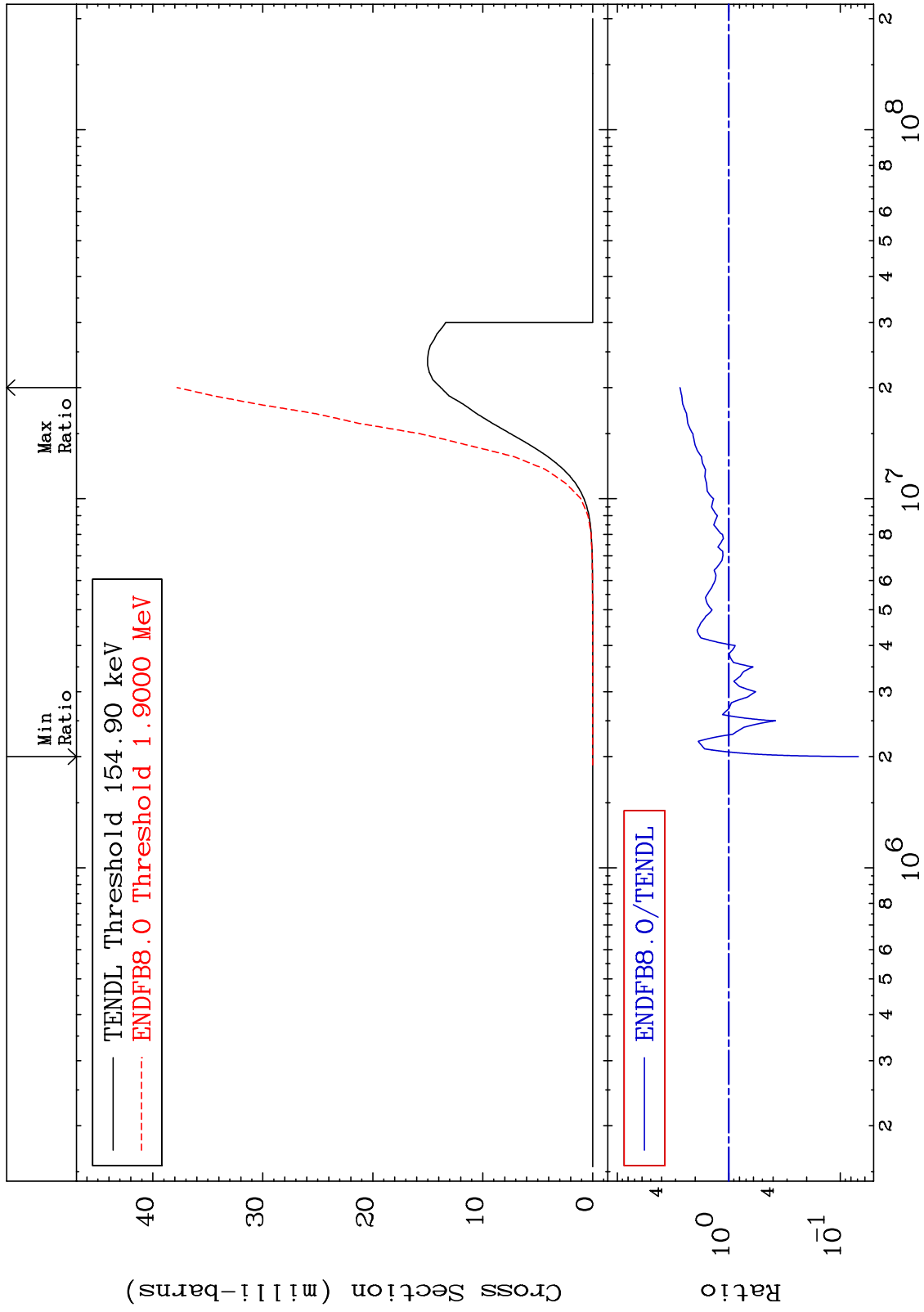
66-Dy-158  
-98.07 To 9999. %



MAT 6631

(n,p)  
Cross Section

66-Dy-158  
-93.13 To 173.6 %



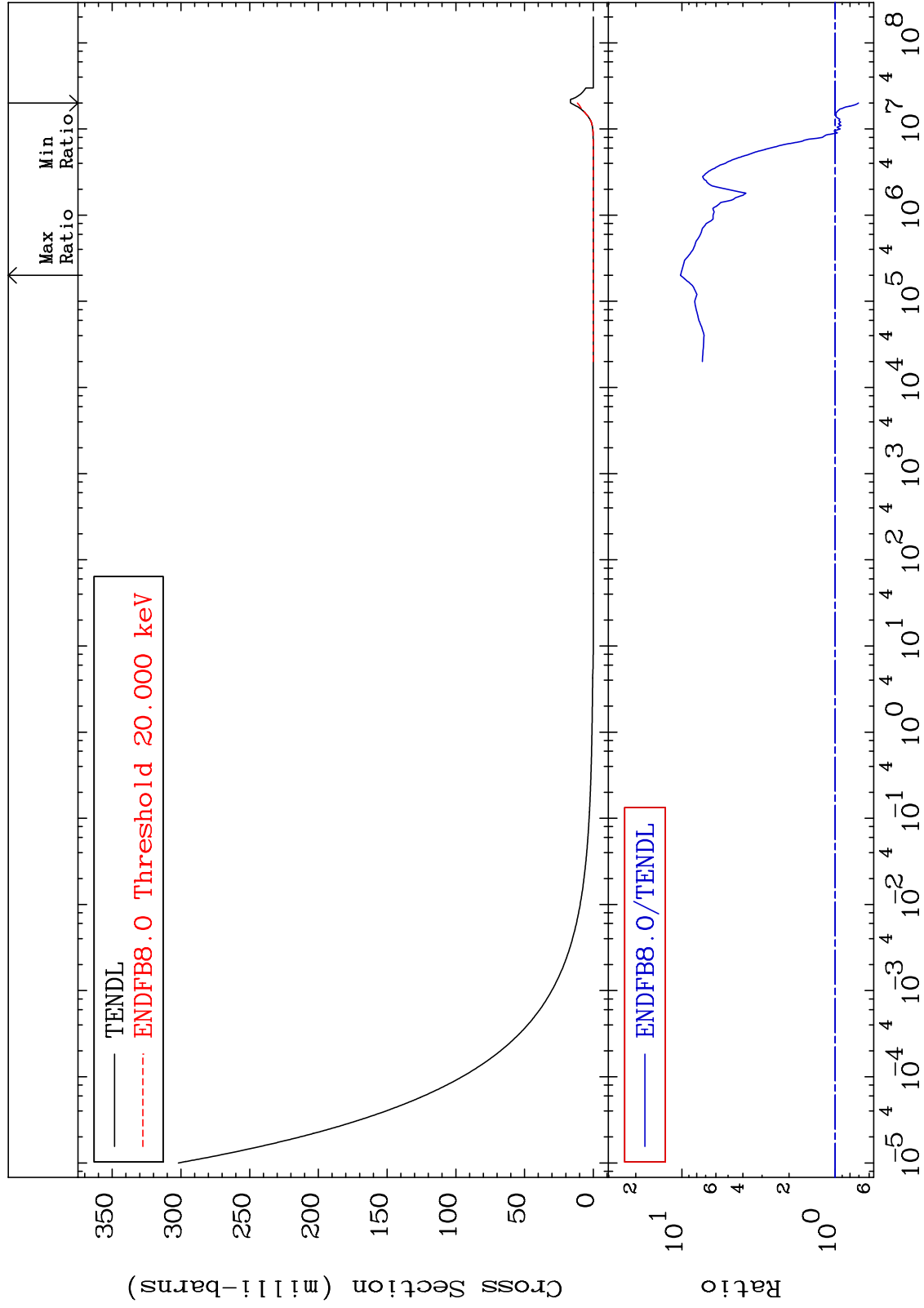
MAT 6631

(n,  $\alpha$ )

66-Dy-158

Cross Section

-29.57 To 921.1 %



36

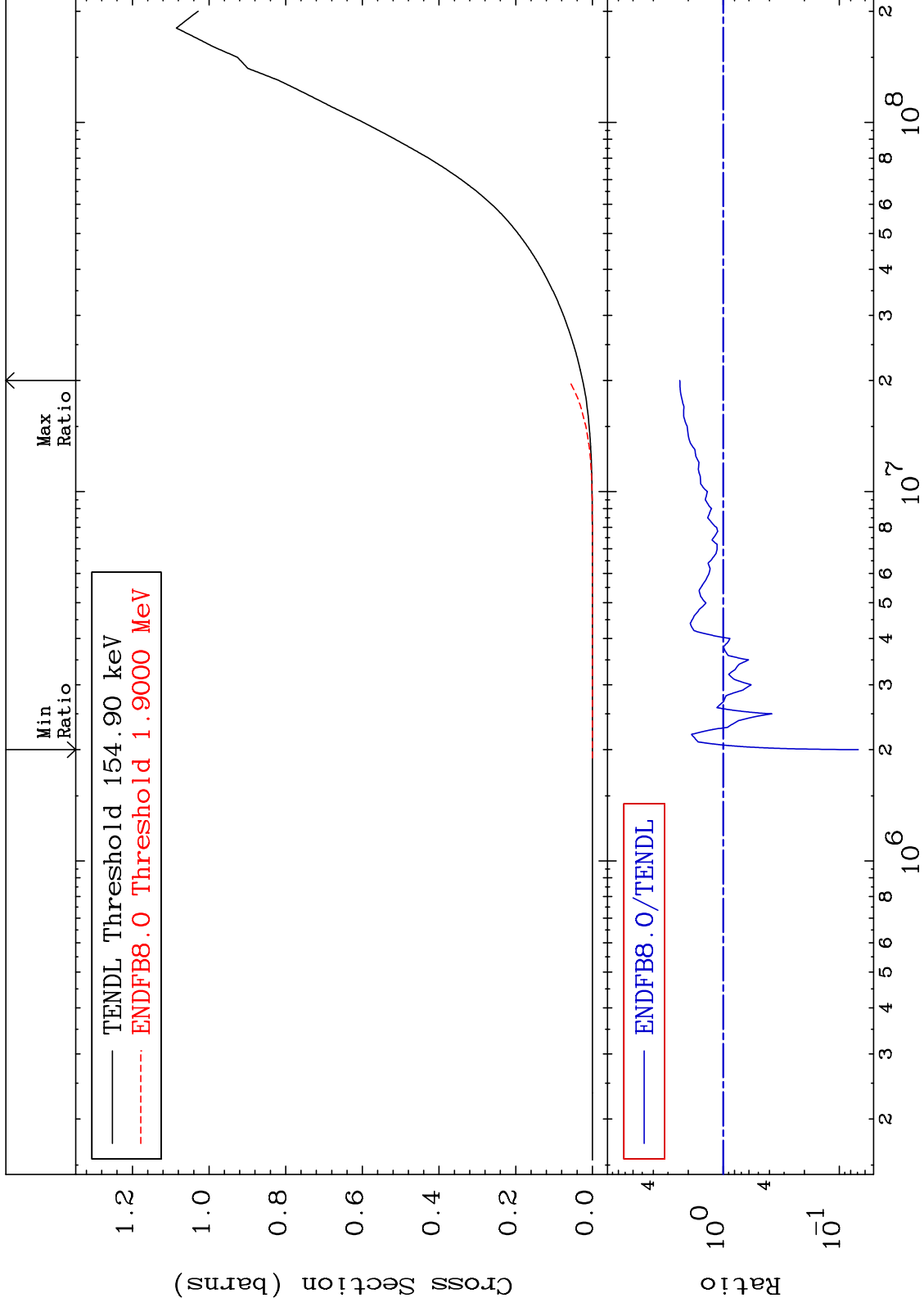
Incident Energy (eV)

66-Dy-158

MAT 6631

Hydrogen Production  
Cross Section

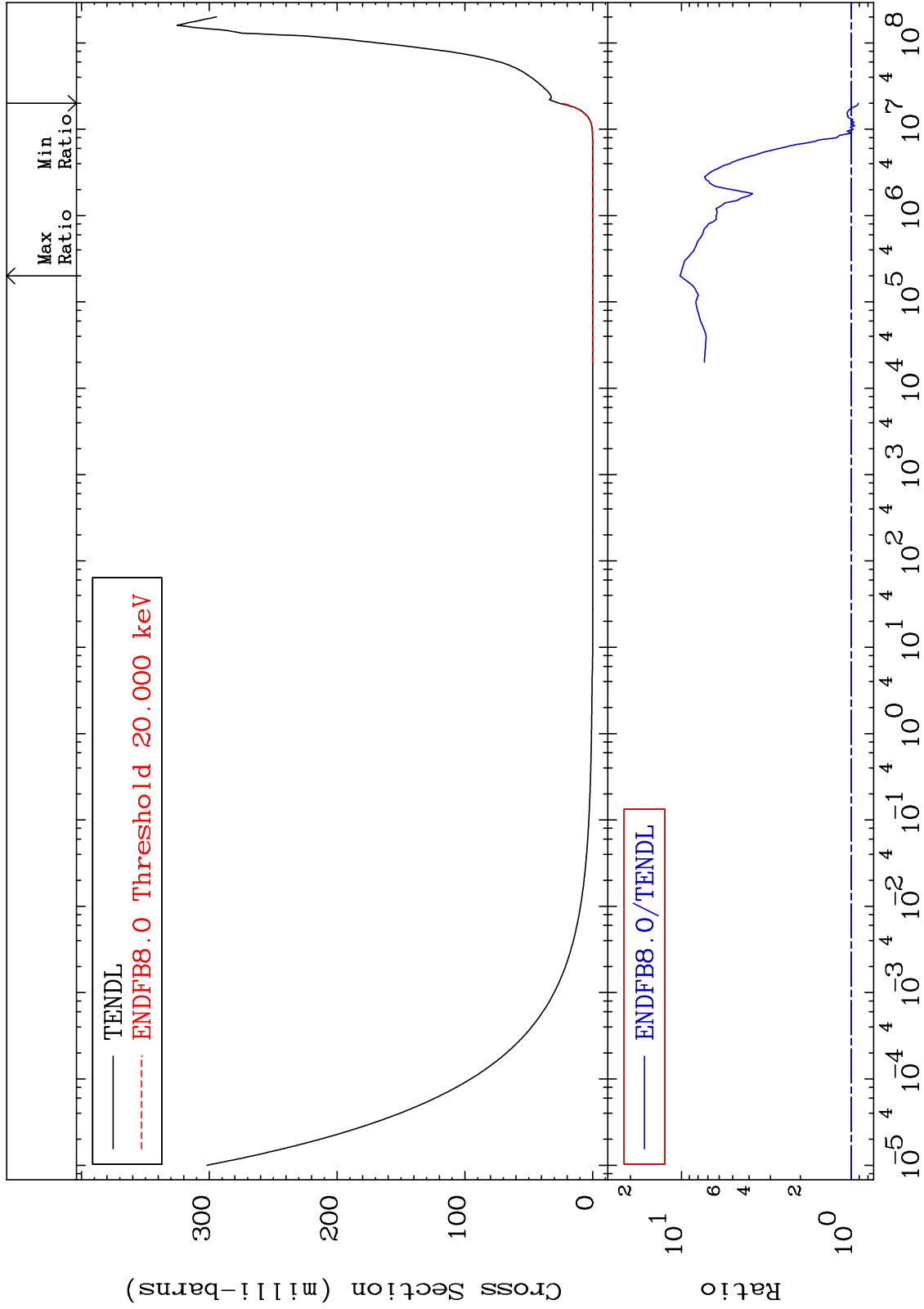
66-Dy-158  
-93.13 To 136.8 %



MAT 6631

He-4 Production  
Cross Section

66-Dy-158  
-9.060 To 921.1 %



38

Incident Energy (eV)

66-Dy-158

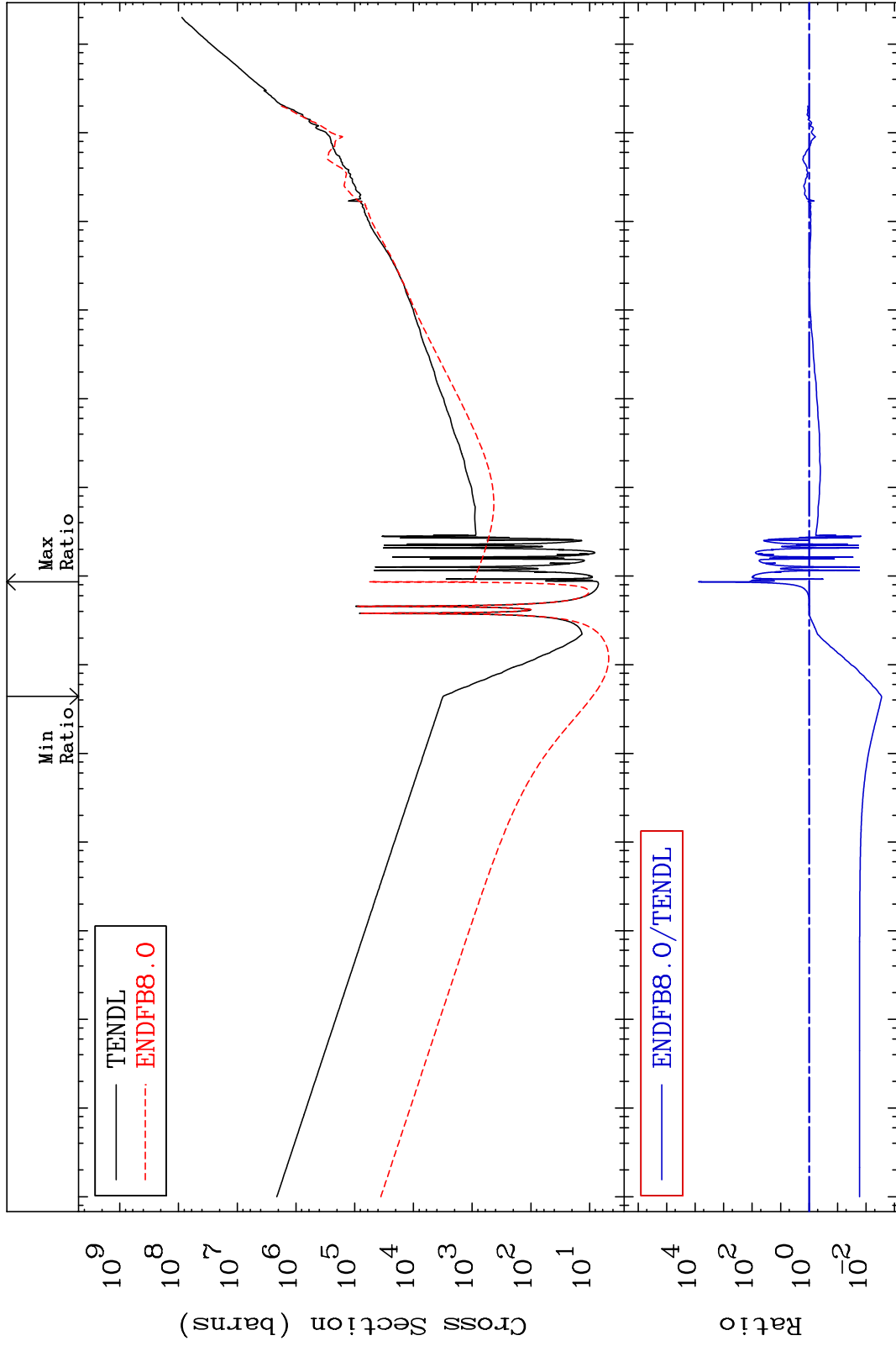
MAT 6631

Kerma total (eV-barns)

66-Dy-158

-99.71 To 9999. %

Cross Section



Incident Energy (eV)

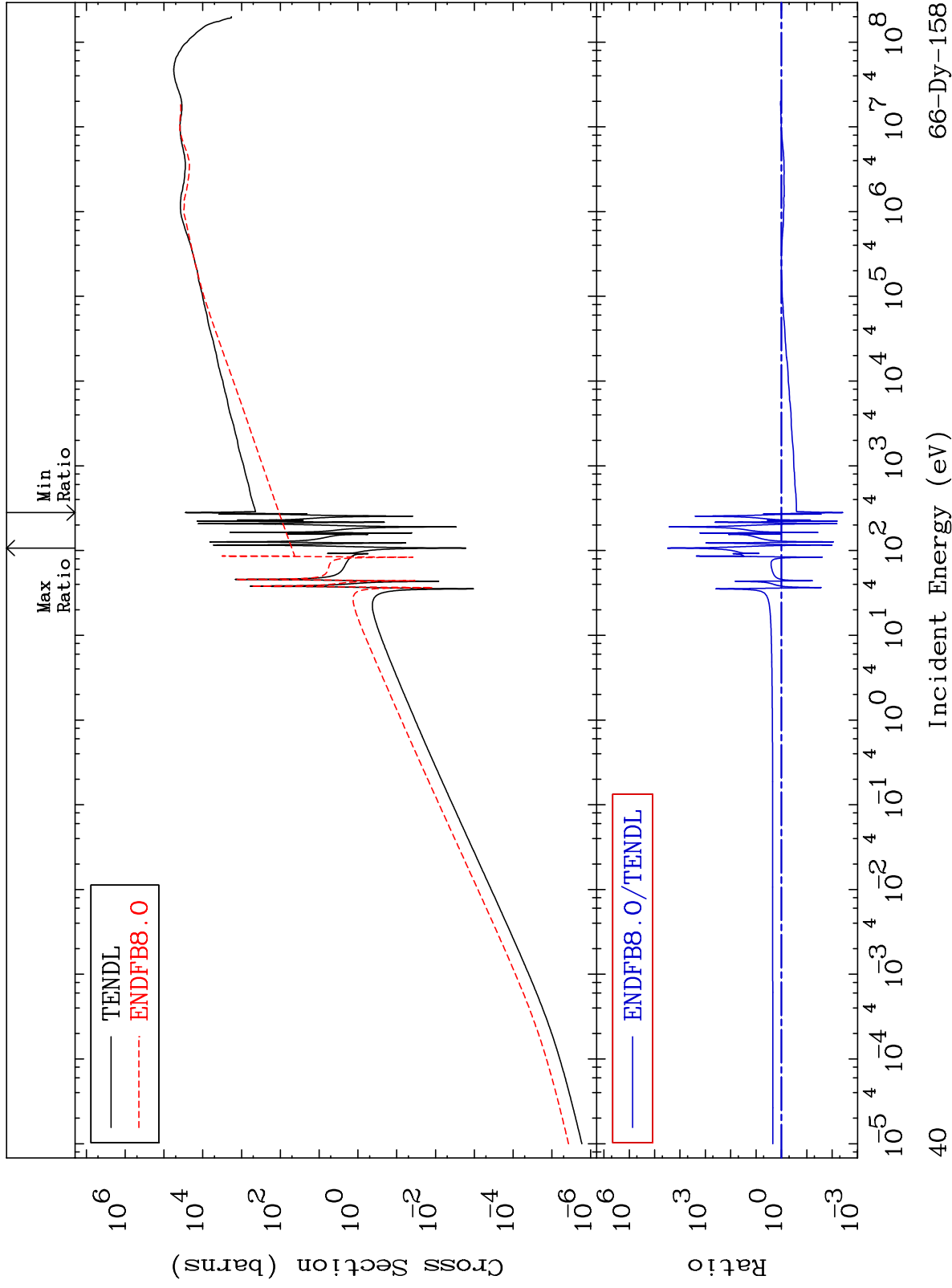
66-Dy-158



MAT 6631

Kerma elastic  
Cross Section

66-Dy-158  
-99.62 To 9999. %



40

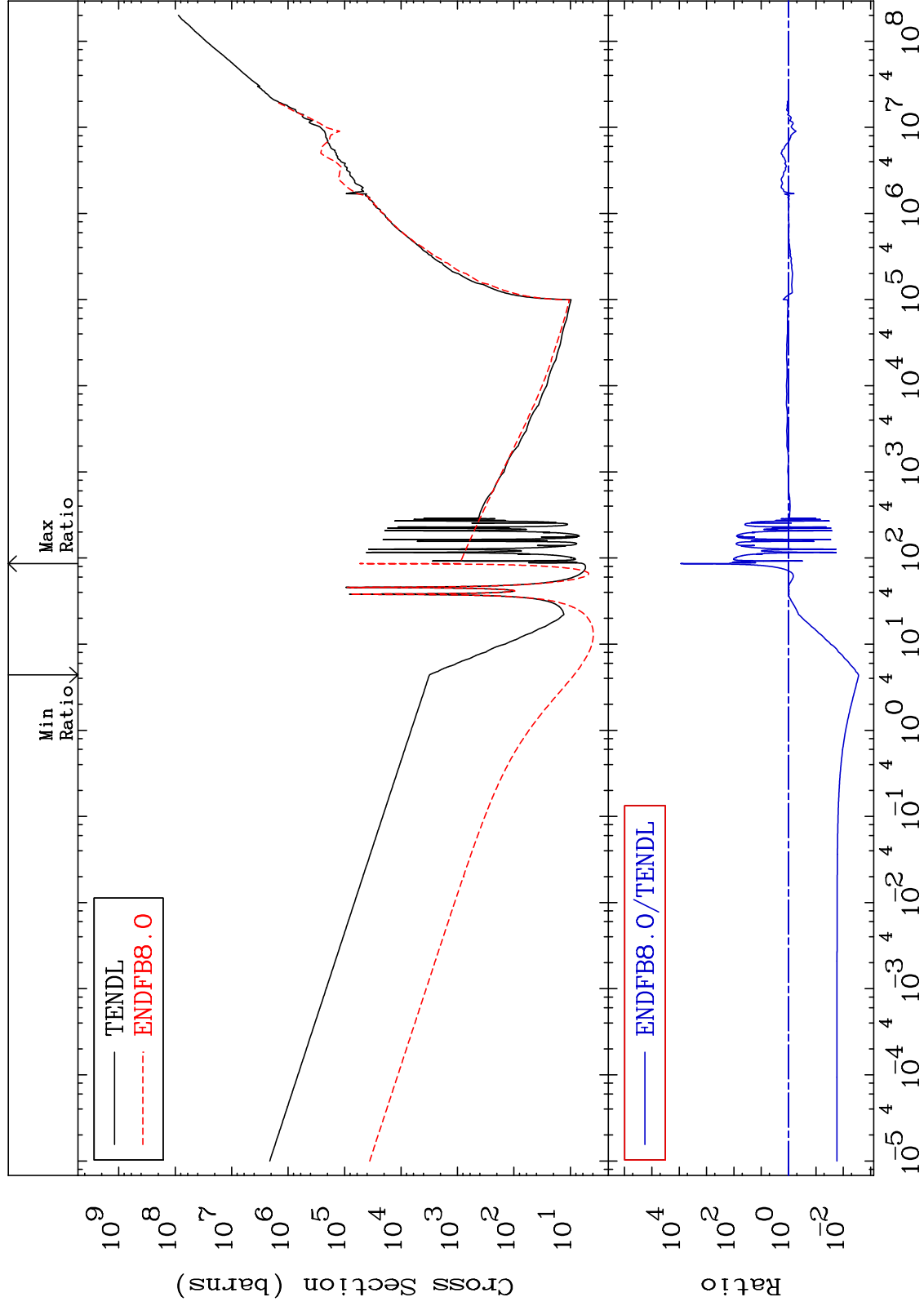
Incident Energy (eV)

66-Dy-158

MAT 6631

Kerma non-elastic (all but mt2)  
Cross Section

66-Dy-158  
-99.72 To 9999. %



41

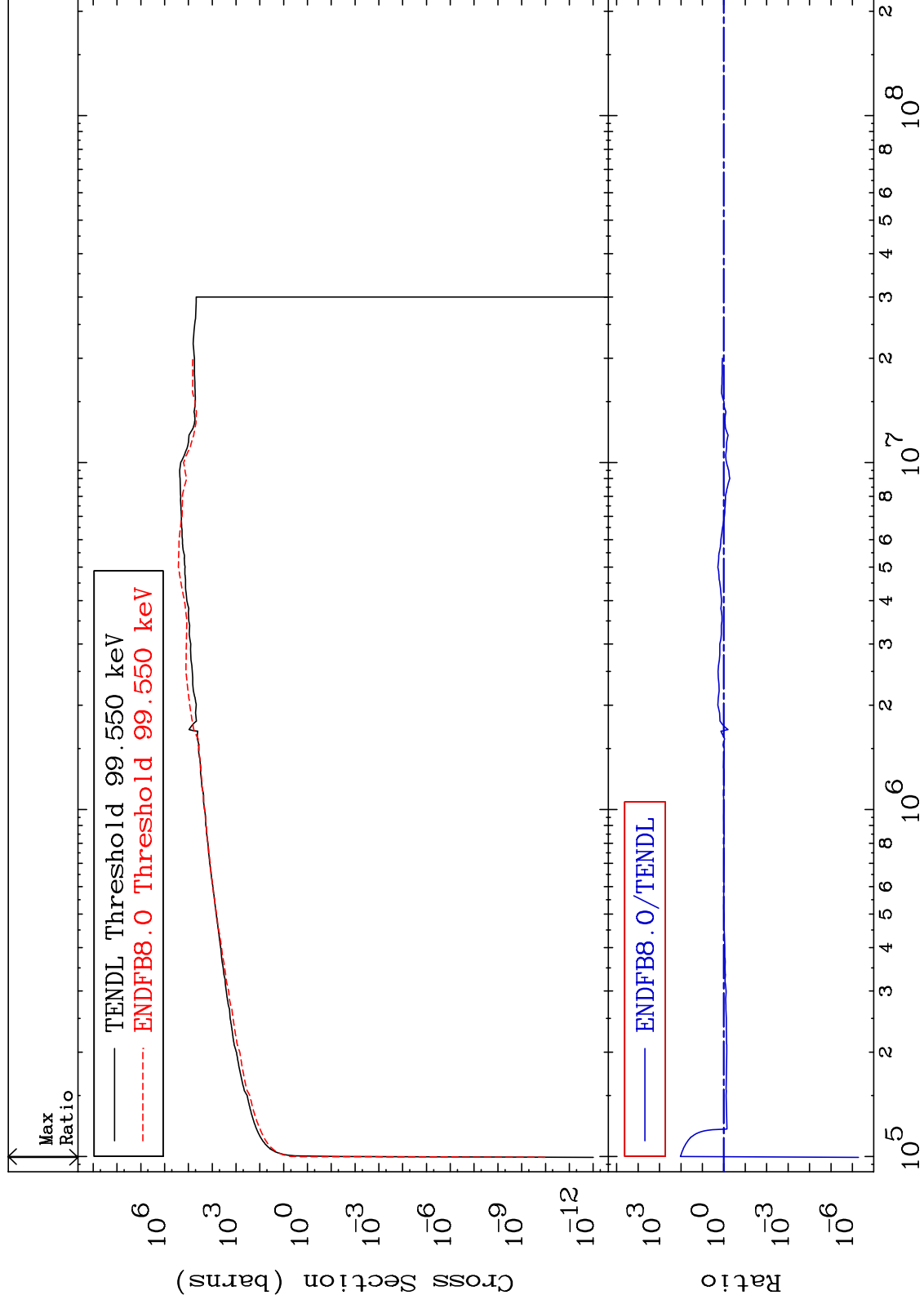
Incident Energy (eV)

66-Dy-158

MAT 6631

Kerma inelastic (mt51-91)  
Cross Section

66-Dy-158  
-100.0 To 9999. %



42

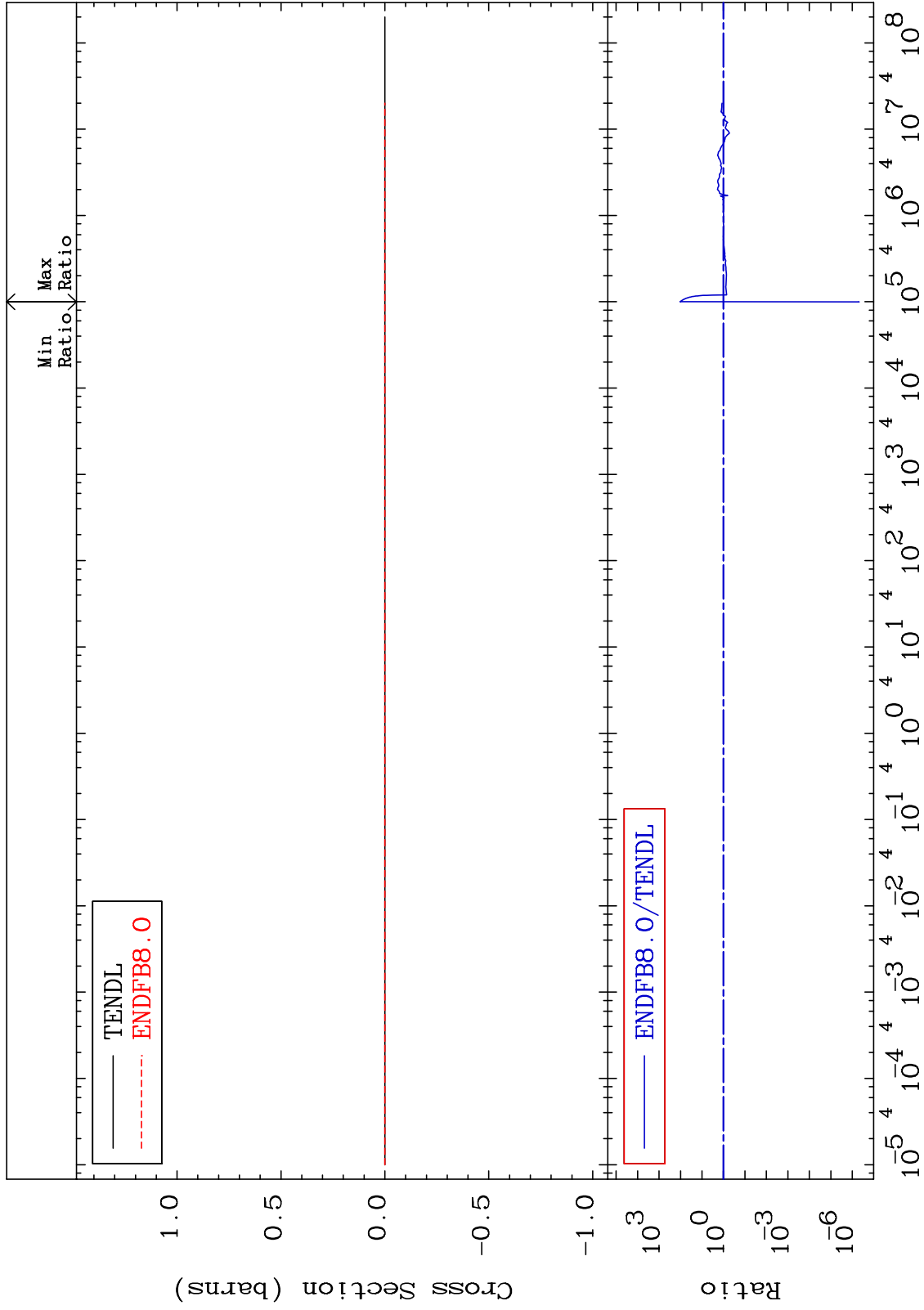
Incident Energy (eV)

66-Dy-158

MAT 6631

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

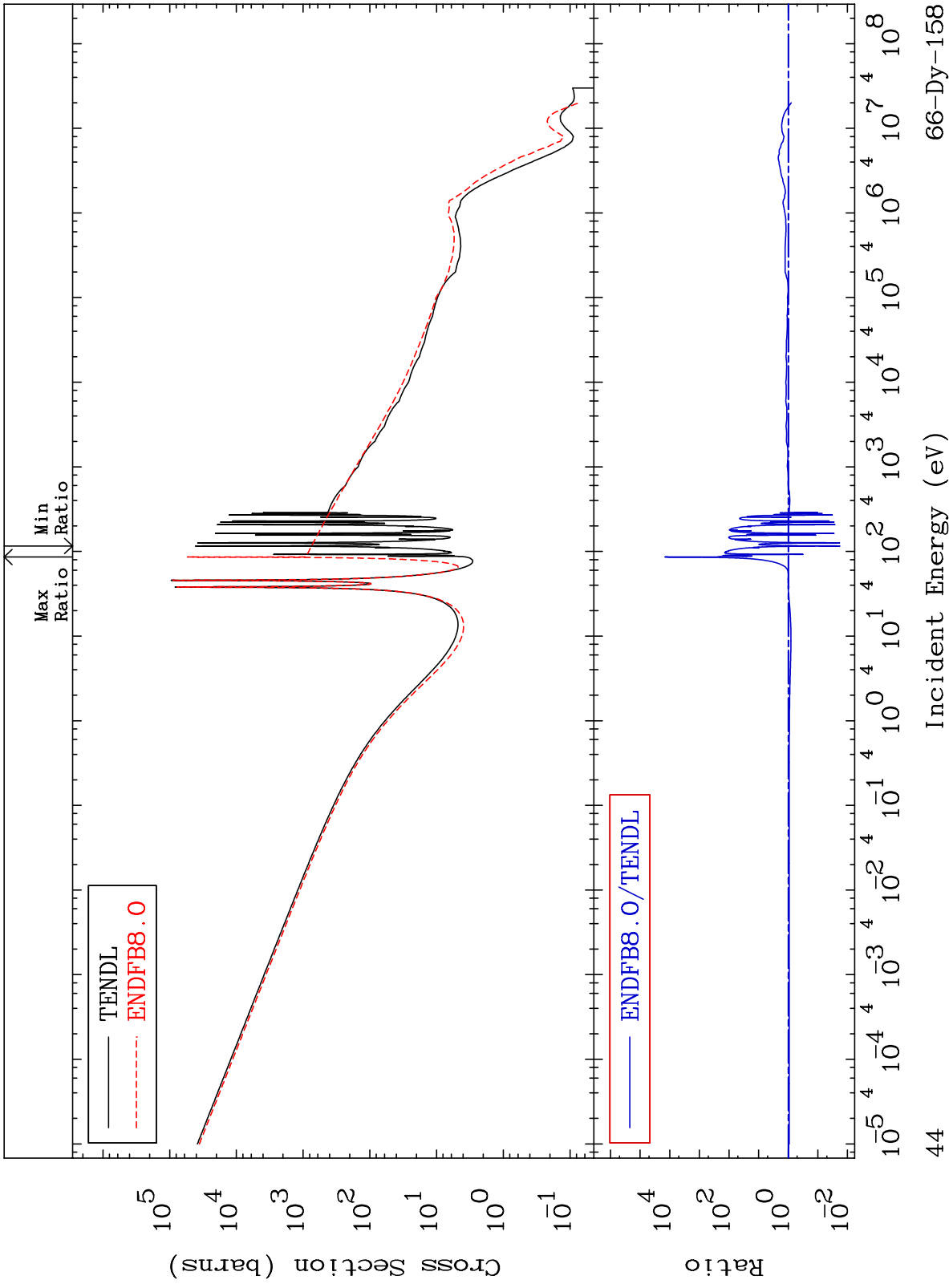
66-Dy-158  
-100.0 To 9999. %



MAT 6631

Kerma capture (mt102)  
Cross Section

66-Dy-158  
-98.17 To 9999. %



44

Incident Energy (eV)

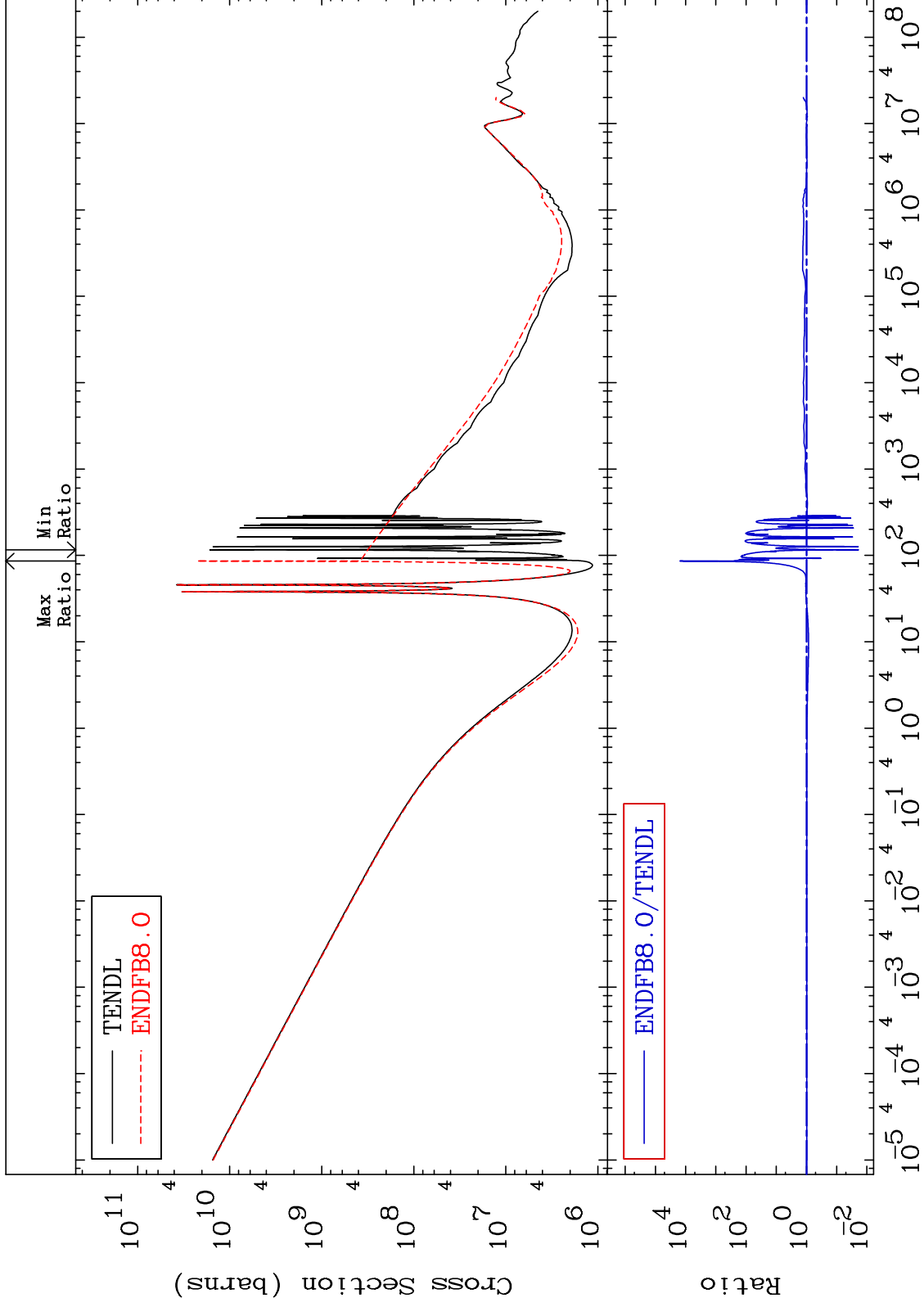
66-Dy-158

MAT 6631

Total photon (eV-barns)  
Cross Section

66-Dy-158

-98.08 To 9999. %



45

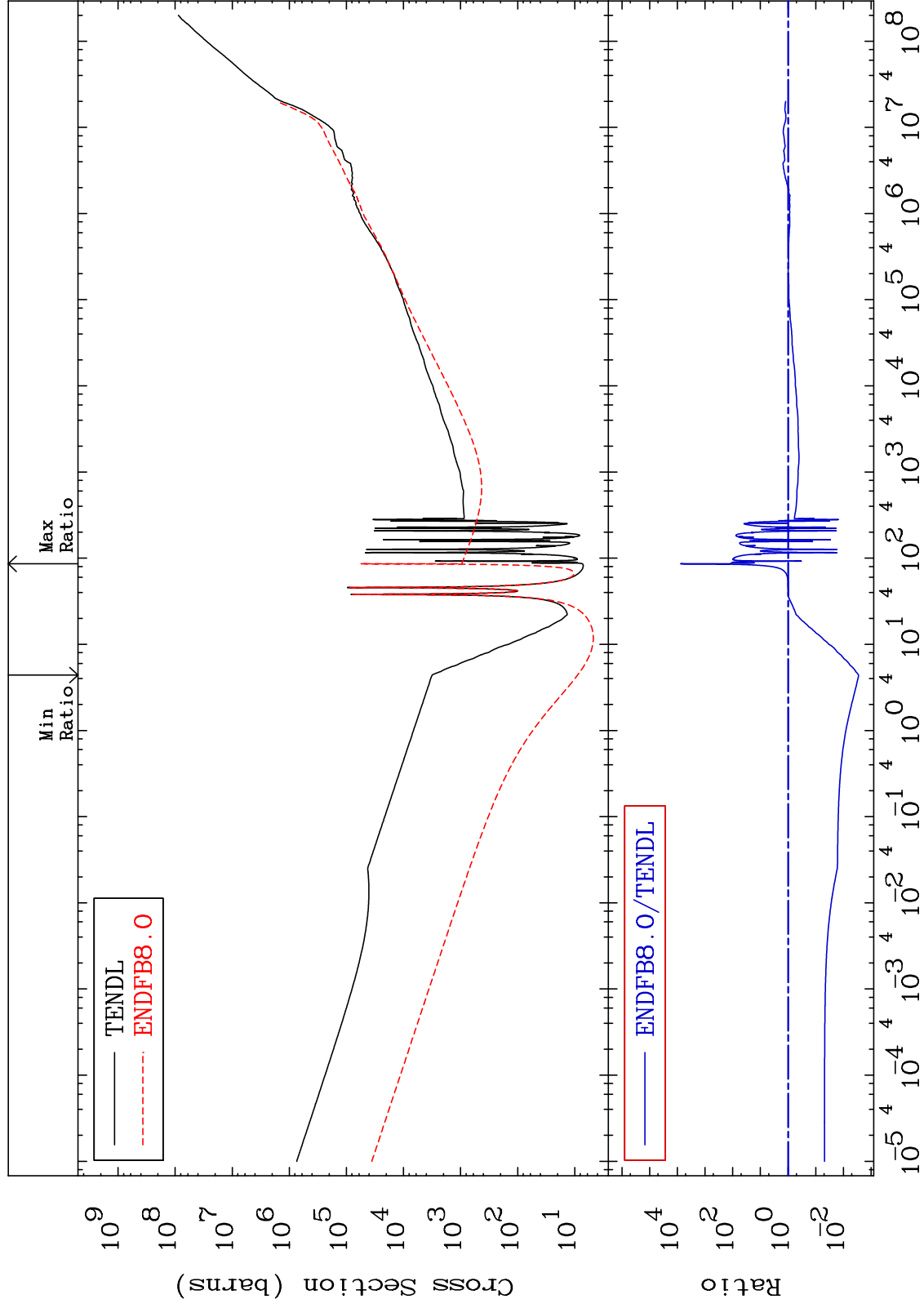
Incident Energy (eV)

66-Dy-158

MAT 6631

Total kinematic kerma (high limit)  
Cross Section

66-Dy-158  
-99.72 To 9999. %



46

Incident Energy (eV)

66-Dy-158

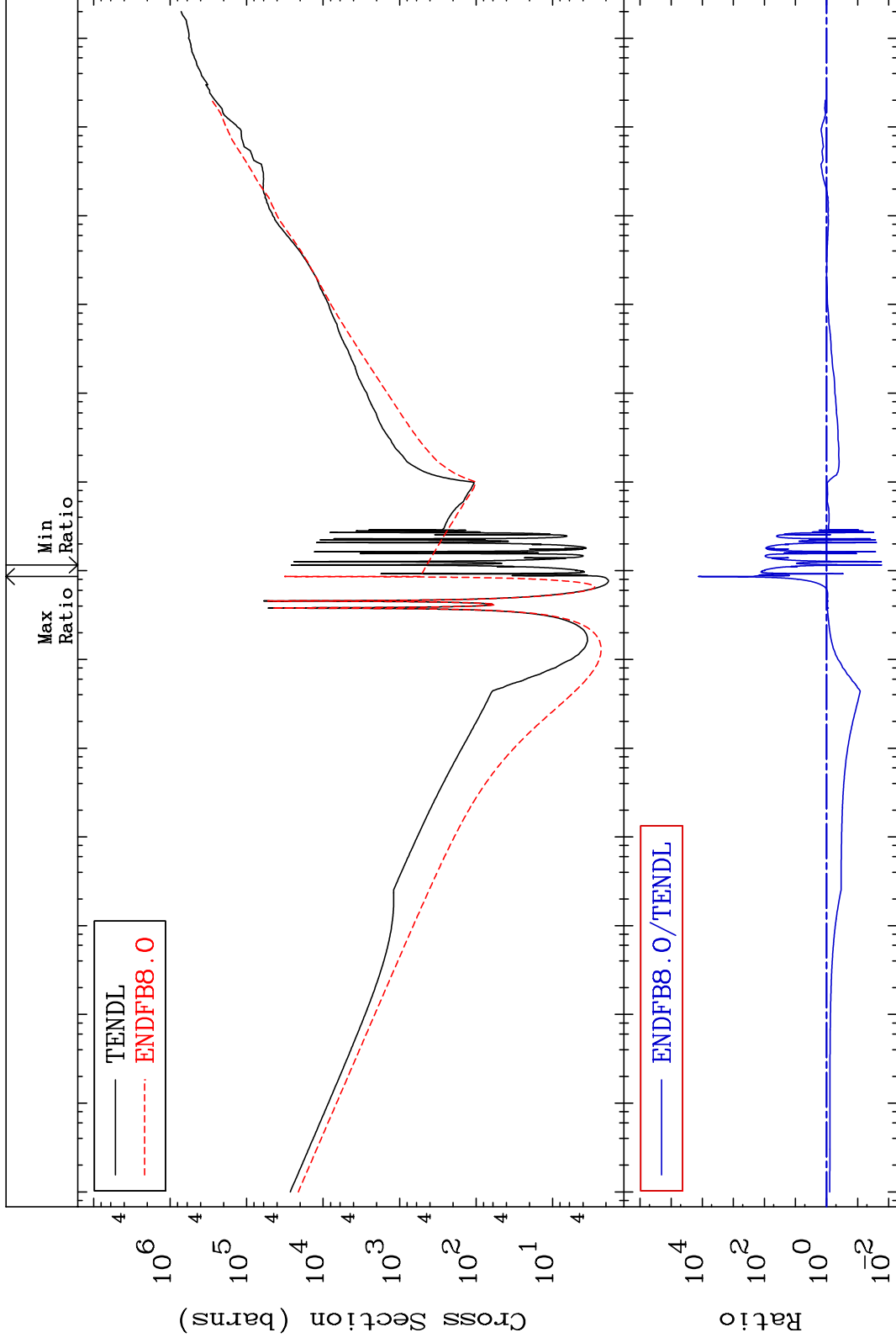
MAT 6631

Dpa total (eV-barns)

66-Dy-158

-98.30 To 9999. %

Cross Section



47

Incident Energy (eV)

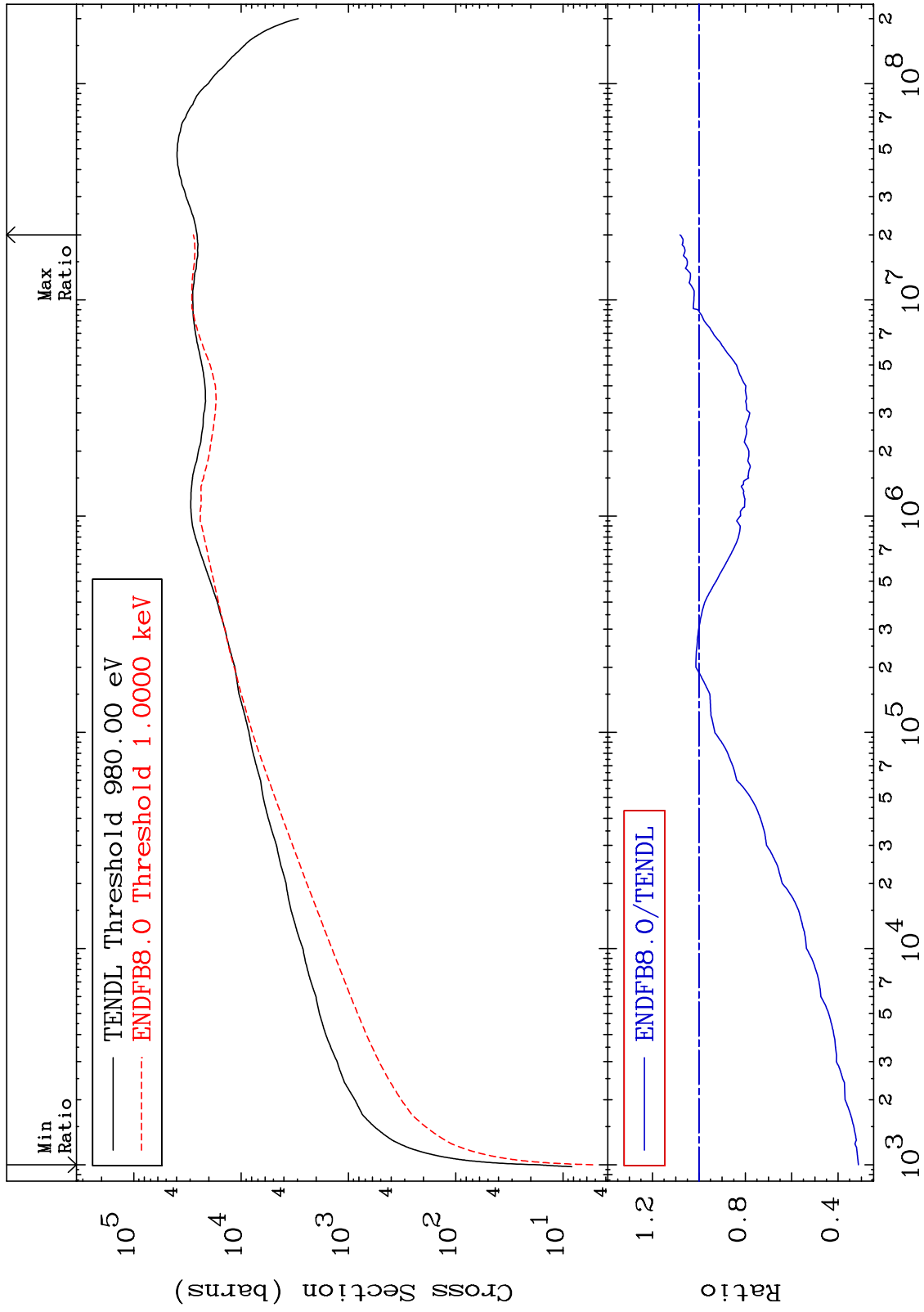
66-Dy-158



MAT 6631

Dpa elastic (mt2)  
Cross Section

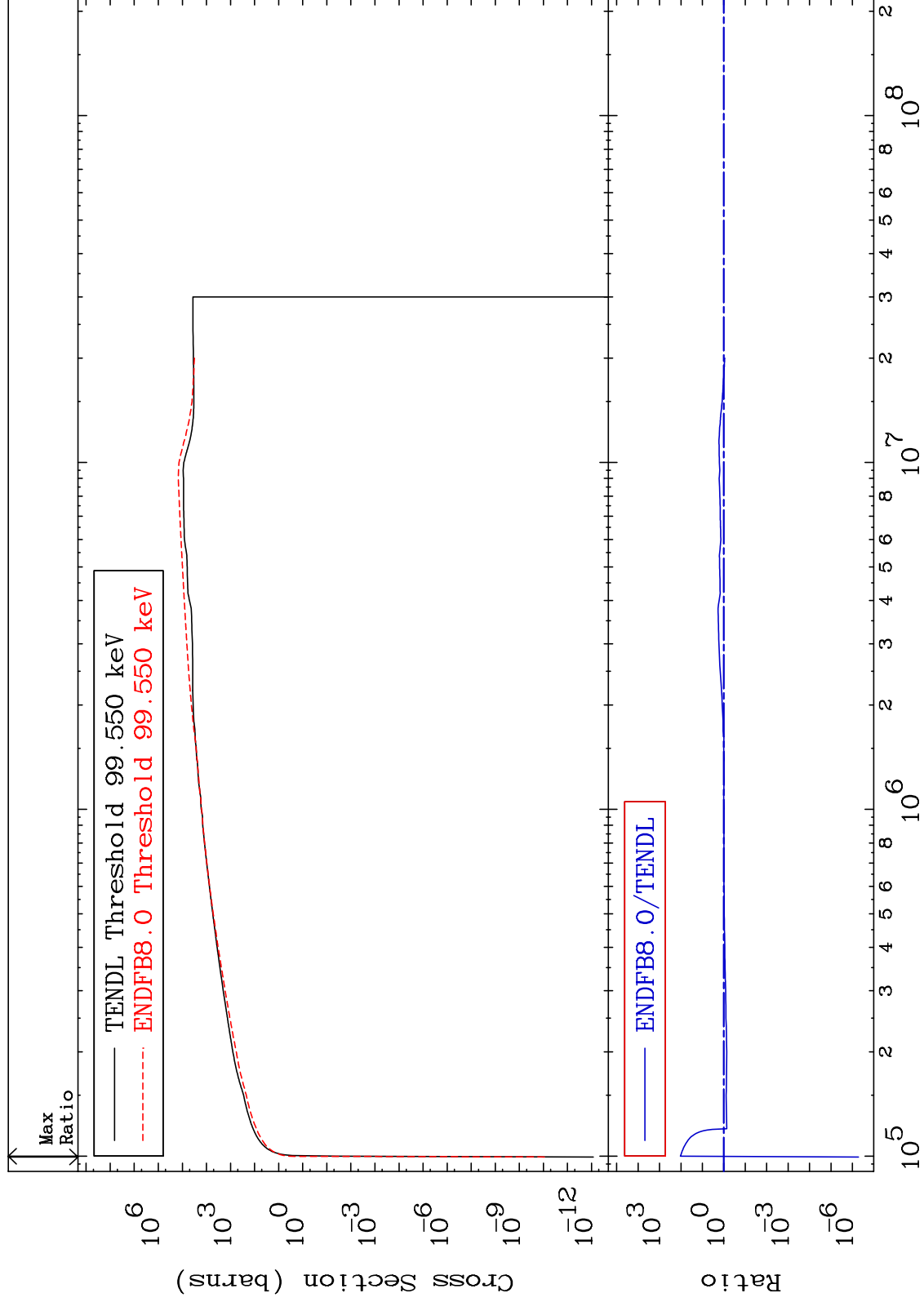
66-Dy-158  
-68.74 To 8.145 %



MAT 6631

Dpa inelastic (mt51-91)  
Cross Section

66-Dy-158  
-100.0 To 9999. %



49

66-Dy-158

MAT 6631

Dpa disappearance (mt102 -120)  
Cross Section

66-Dy-158  
-98.30 To 9999. %

