

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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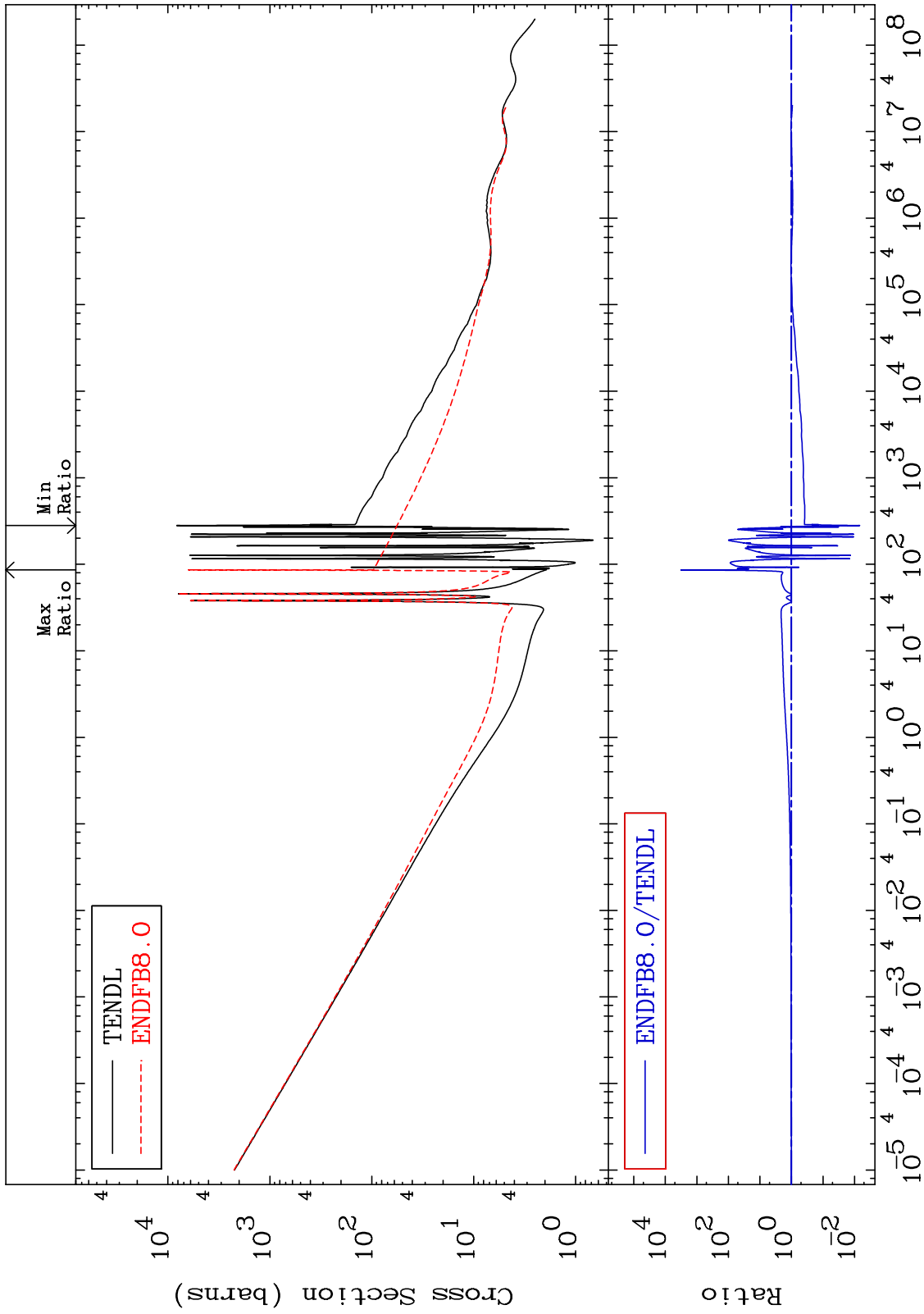
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6631

Total  
Cross Section

66-Dy-158  
-99.31 To 9999. %



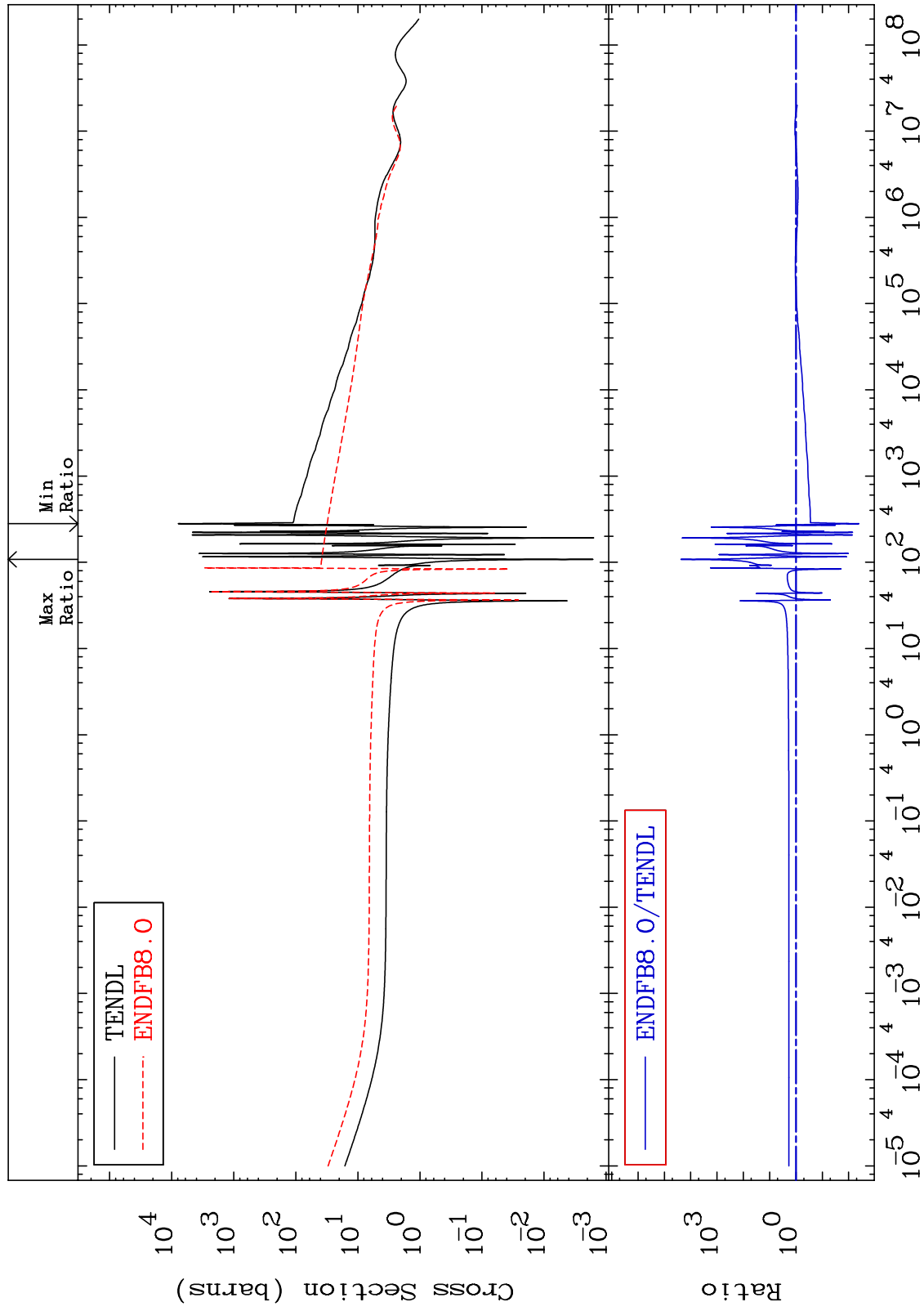
Incident Energy (eV)

66-Dy-158

MAT 6631

Elastic  
Cross Section

66-Dy-158  
-99.60 To 9999. %



2

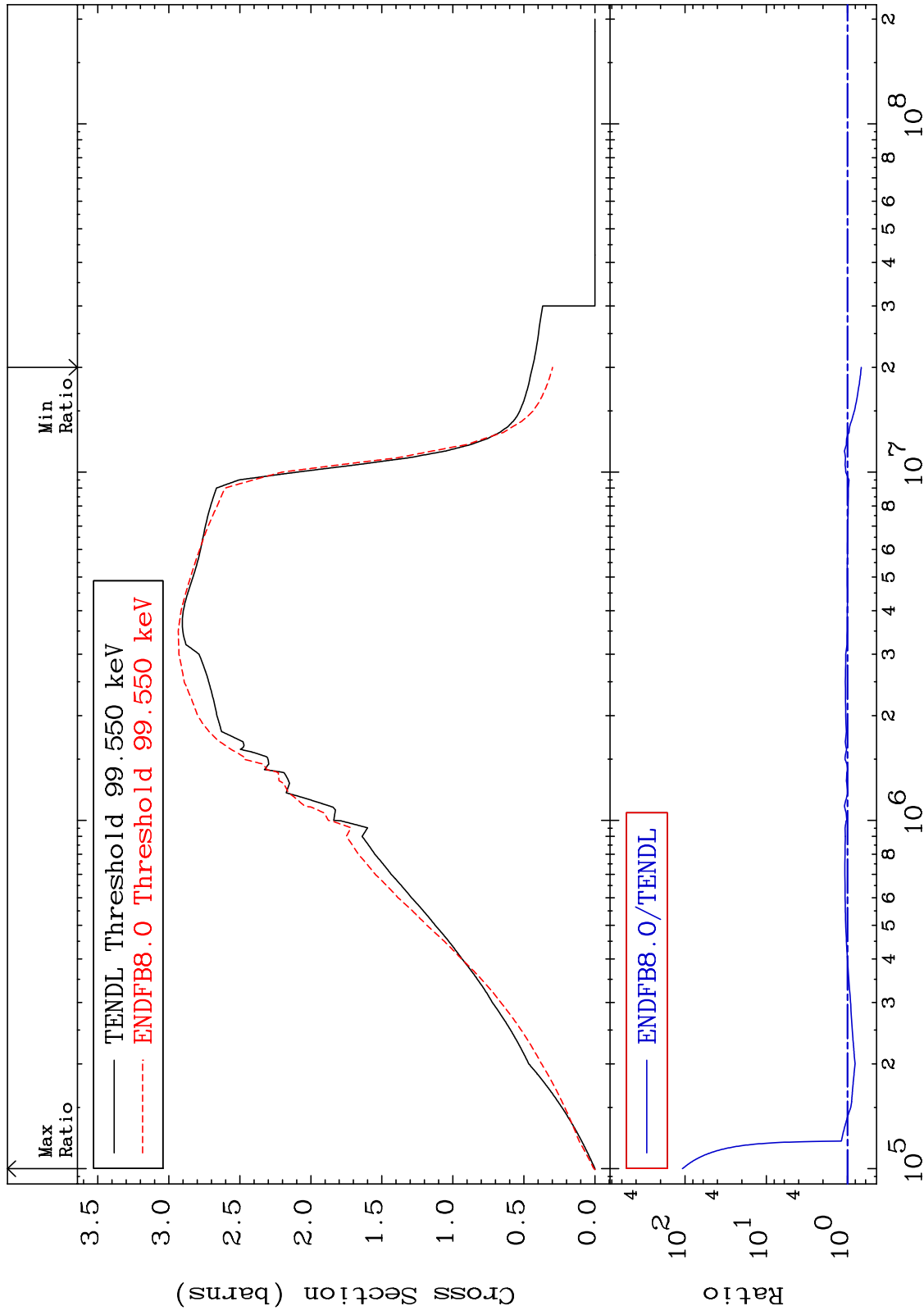
Incident Energy (eV)

66-Dy-158

MAT 6631

Inelastic  
Cross Section

66-Dy-158  
-32.27 To 9999. %



3

Incident Energy (eV)

66-Dy-158

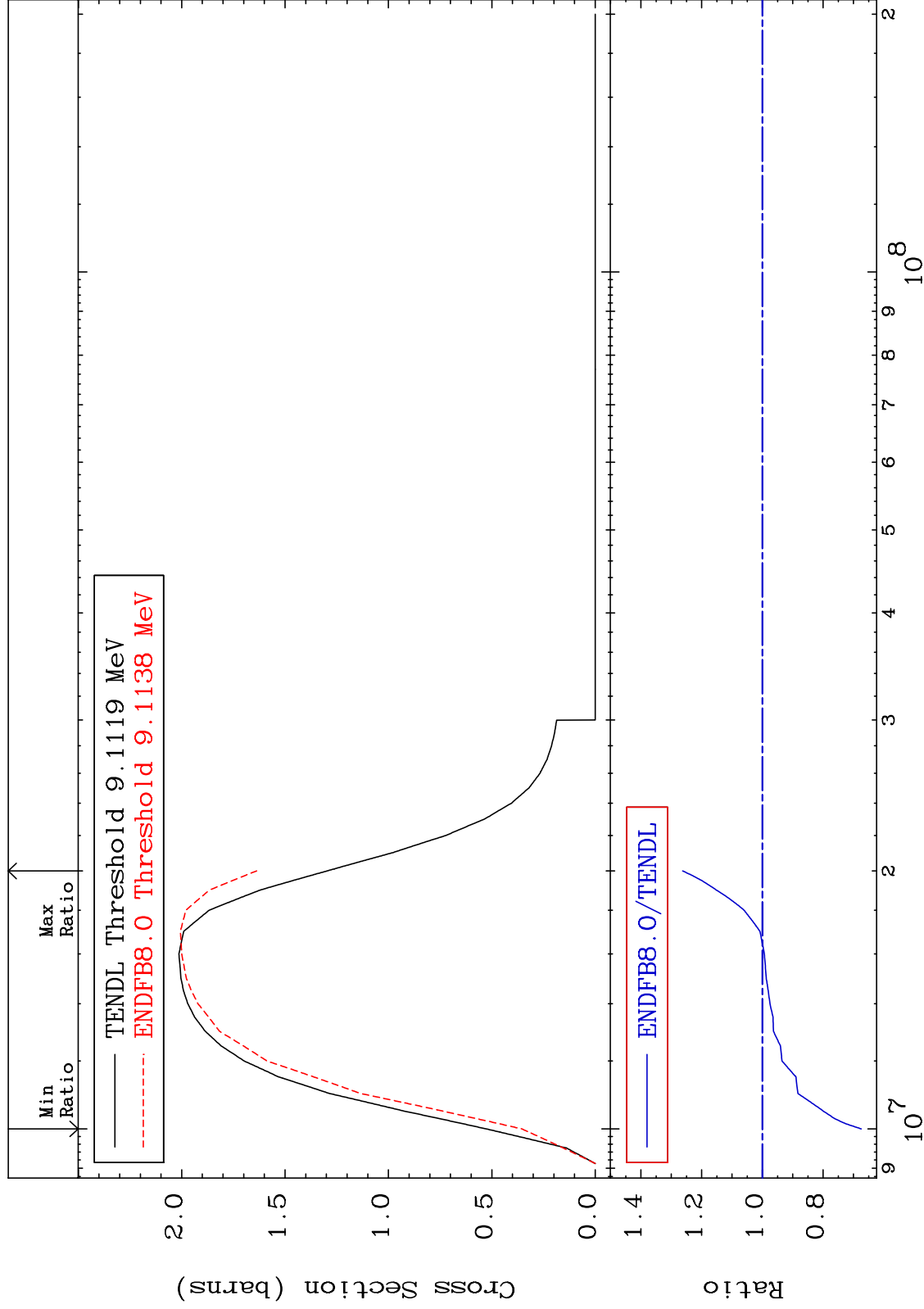
MAT 6631

(n,2n)

66-Dy-158

Cross Section

-32.60 To 26.24 %



4

Incident Energy (eV)

66-Dy-158

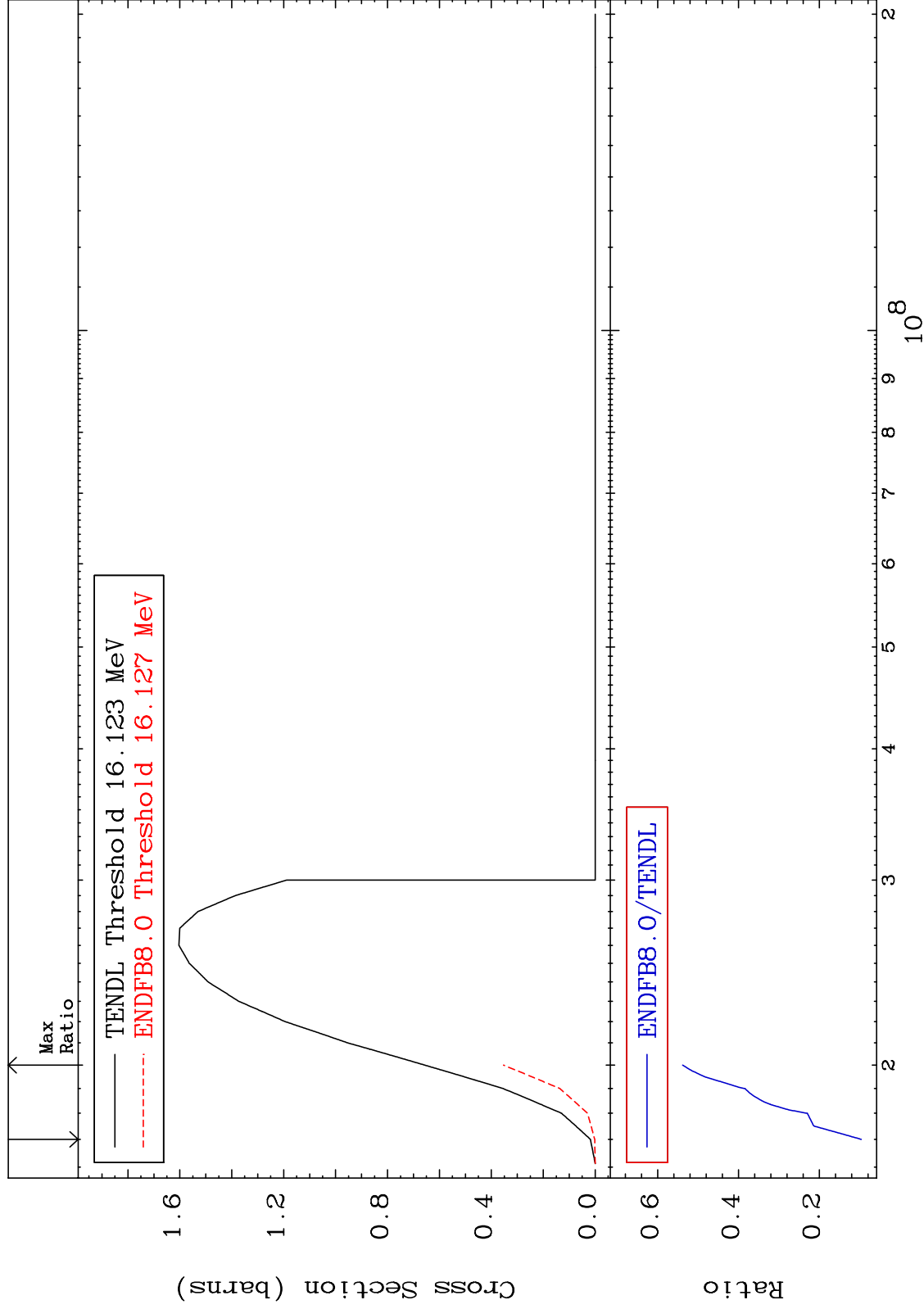
MAT 6631

(n,3n)

66-Dy-158

Cross Section

-90.36 To -46.19%



5

Incident Energy (eV)

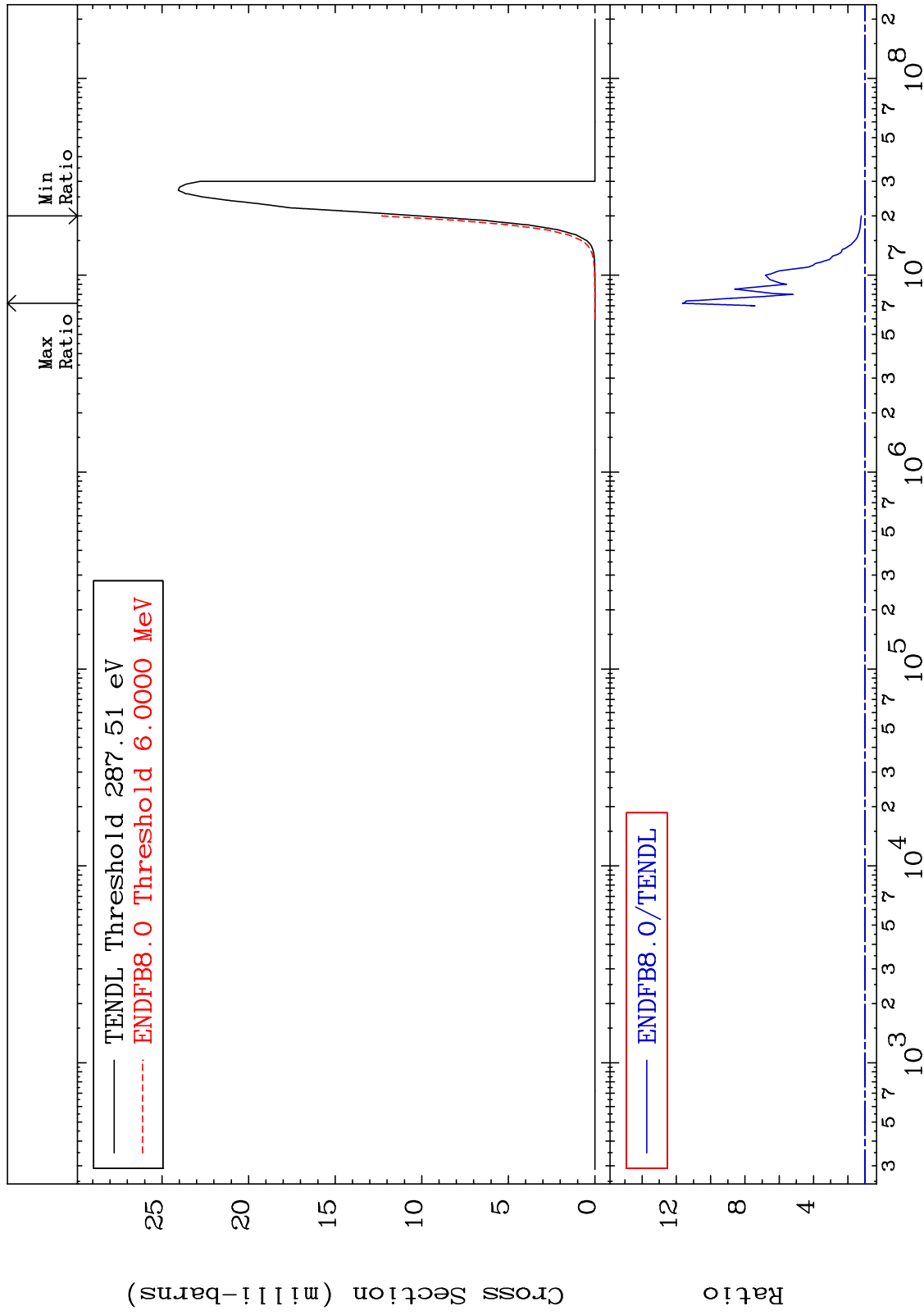
66-Dy-158

MAT 6631

(n, n')  $\alpha$

66-Dy-158

Cross Section To 1064. %



6

Incident Energy (eV)

66-Dy-158

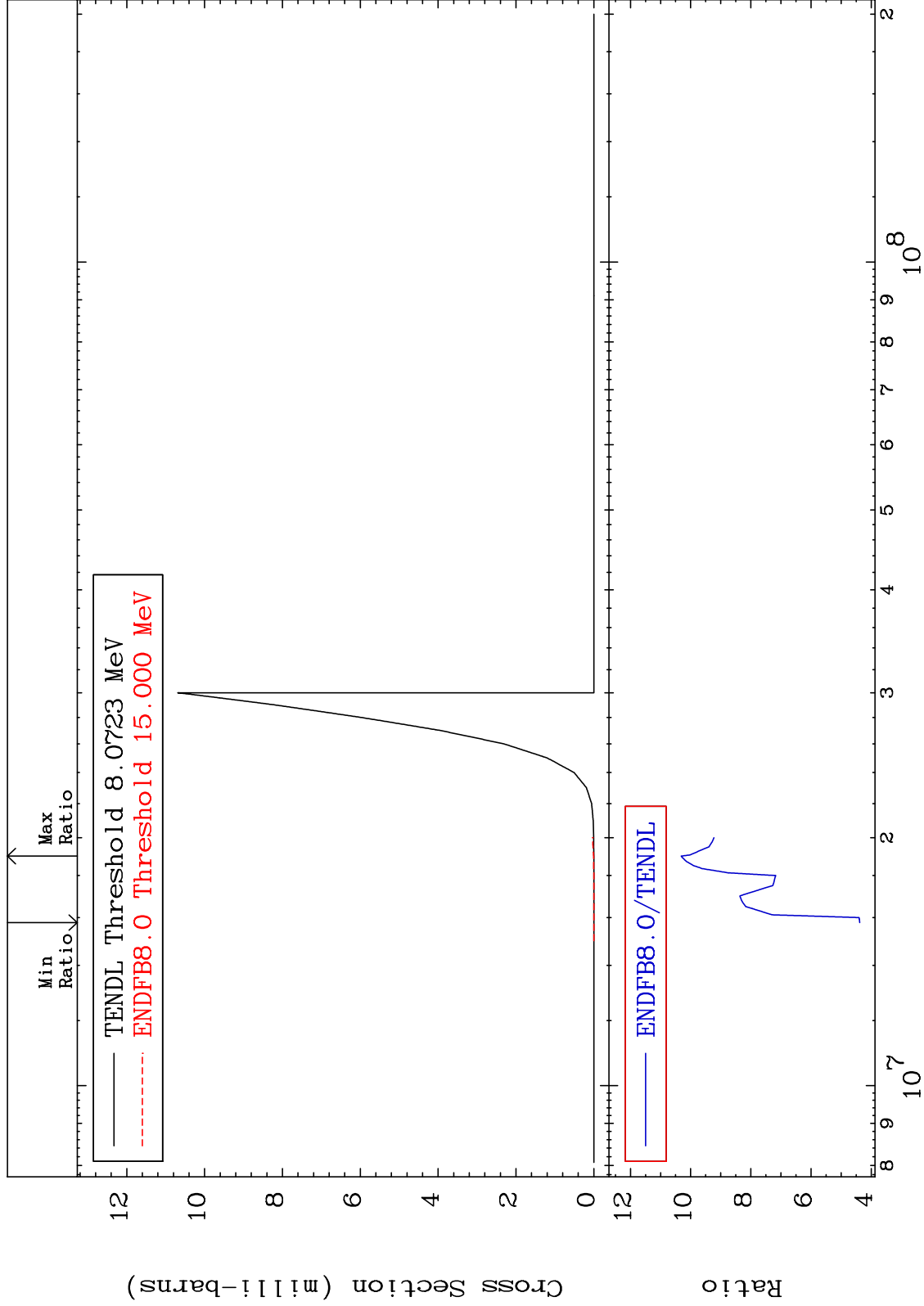
MAT 6631

(n,2n)  $\alpha$

66-Dy-158

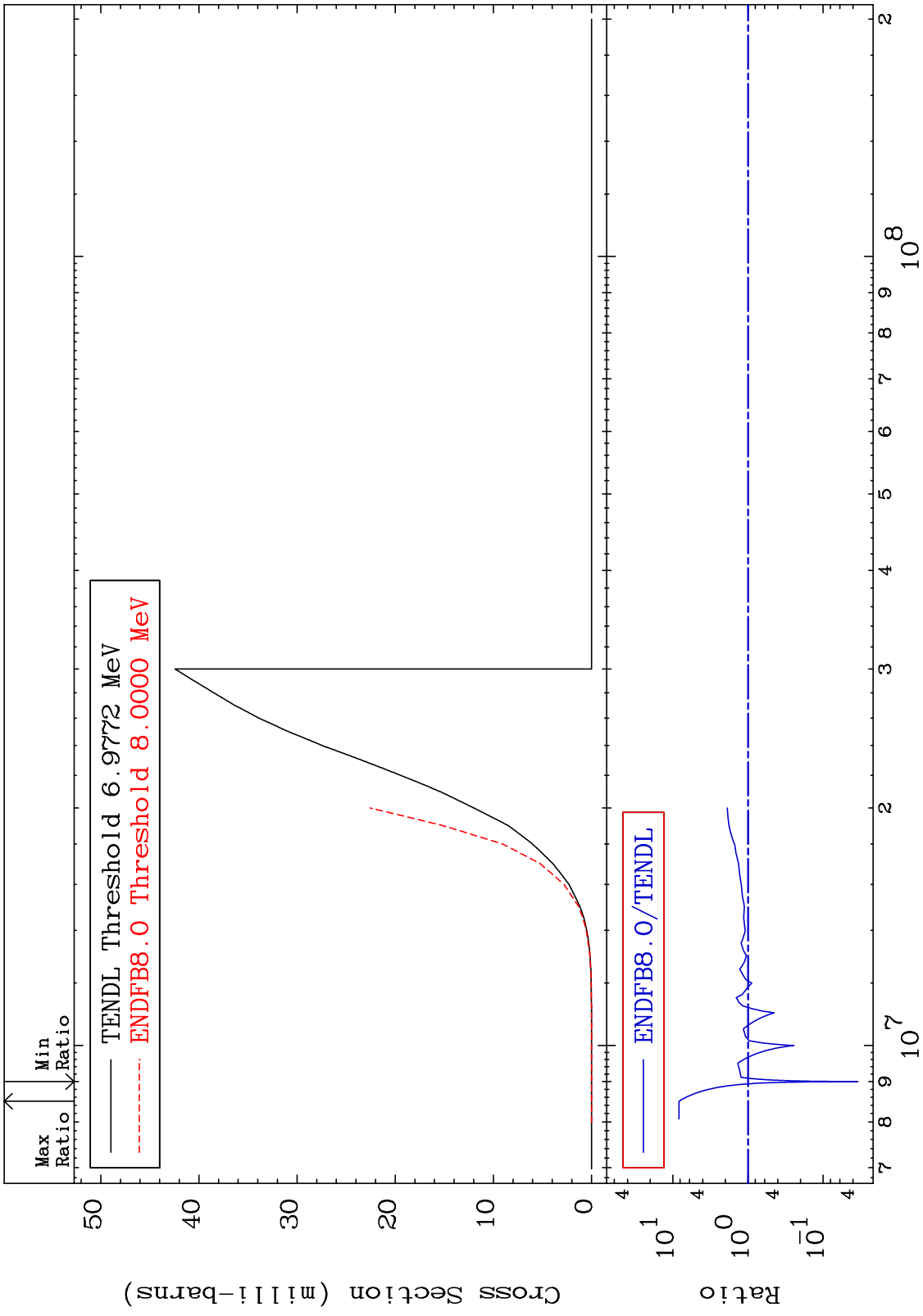
338.2 To 931.3 %

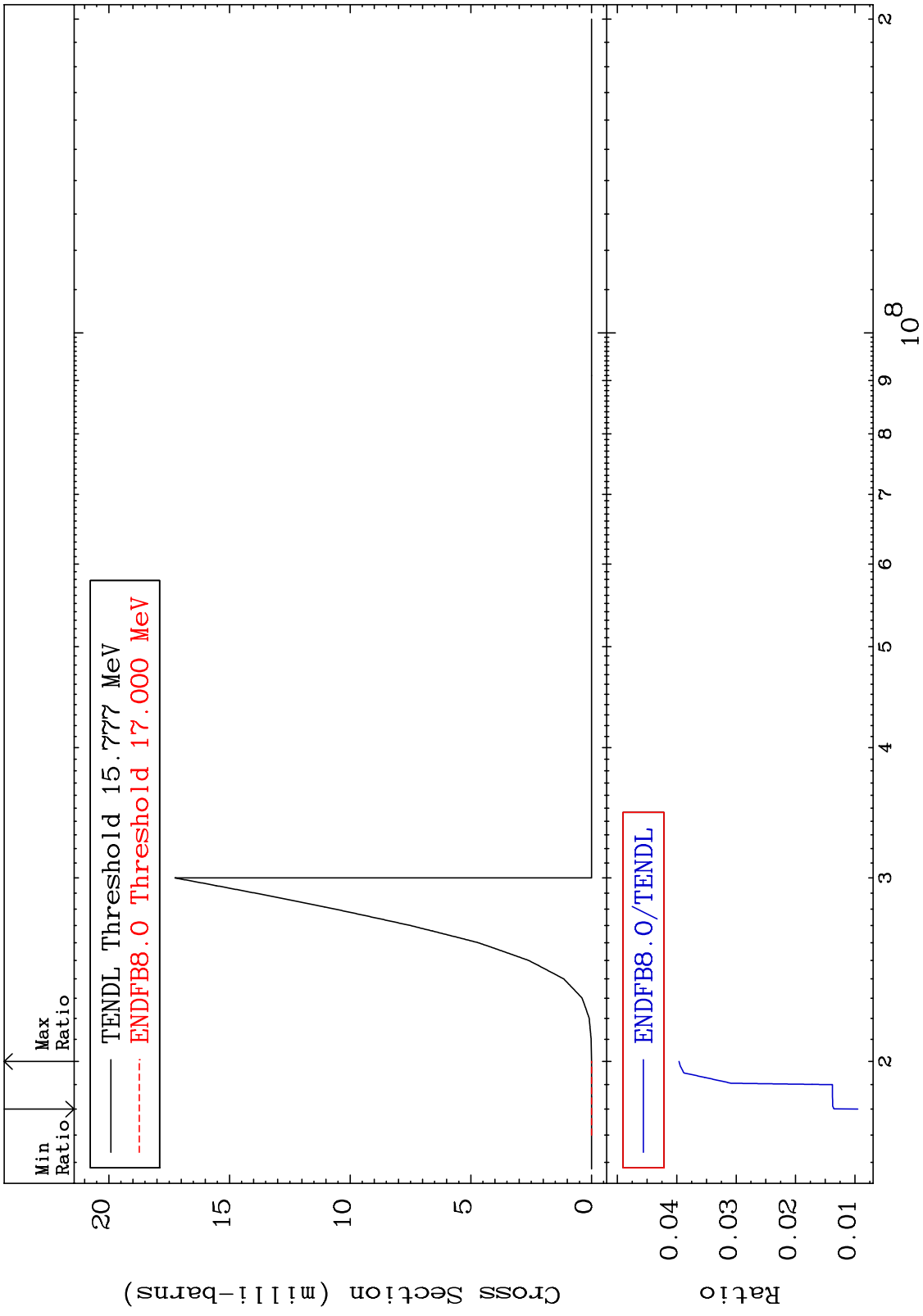
Cross Section





MAT 6631 (n,n') p 66-Dy-158  
 Cross Section -96.55 To 725.8 %

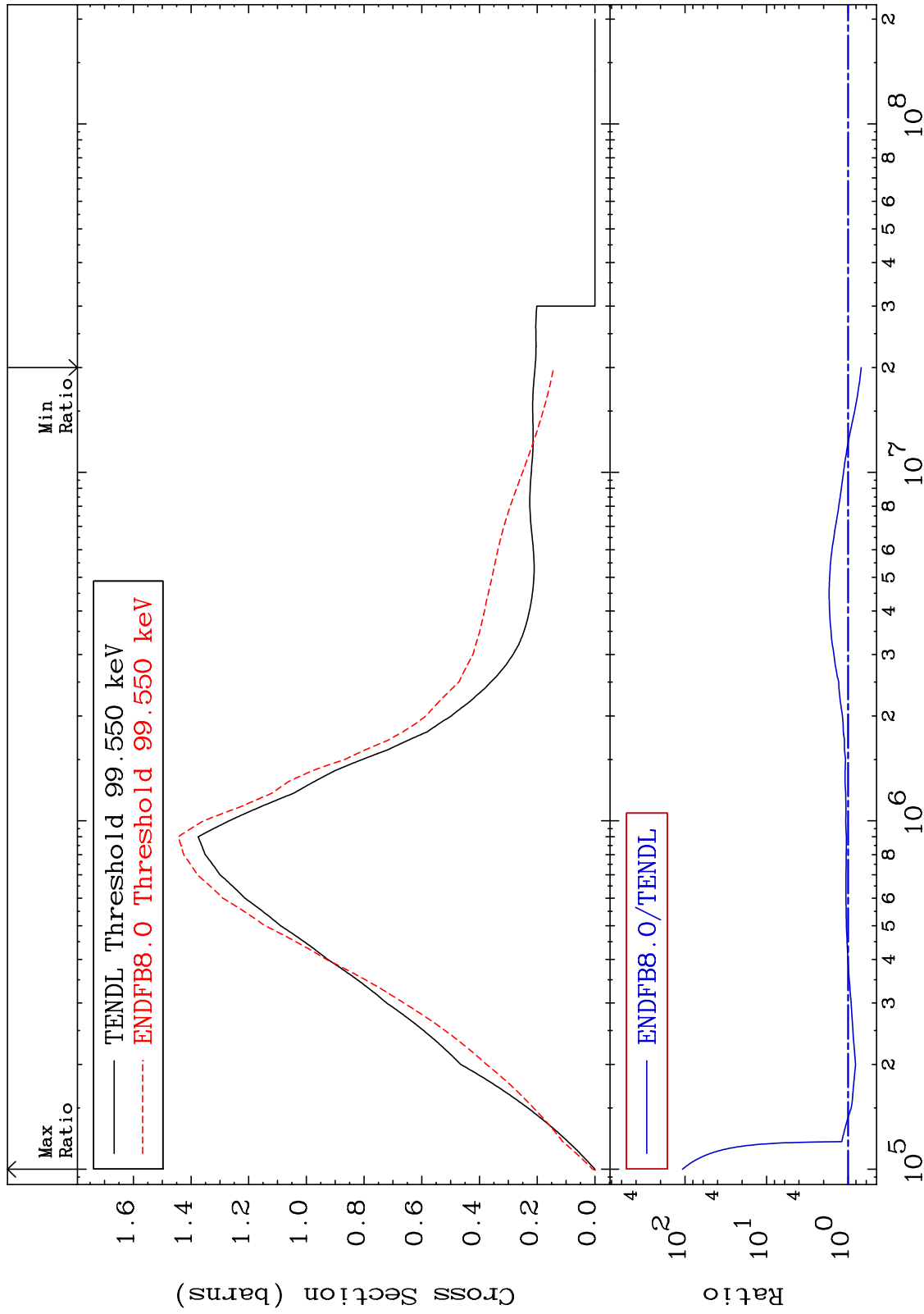




MAT 6631

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

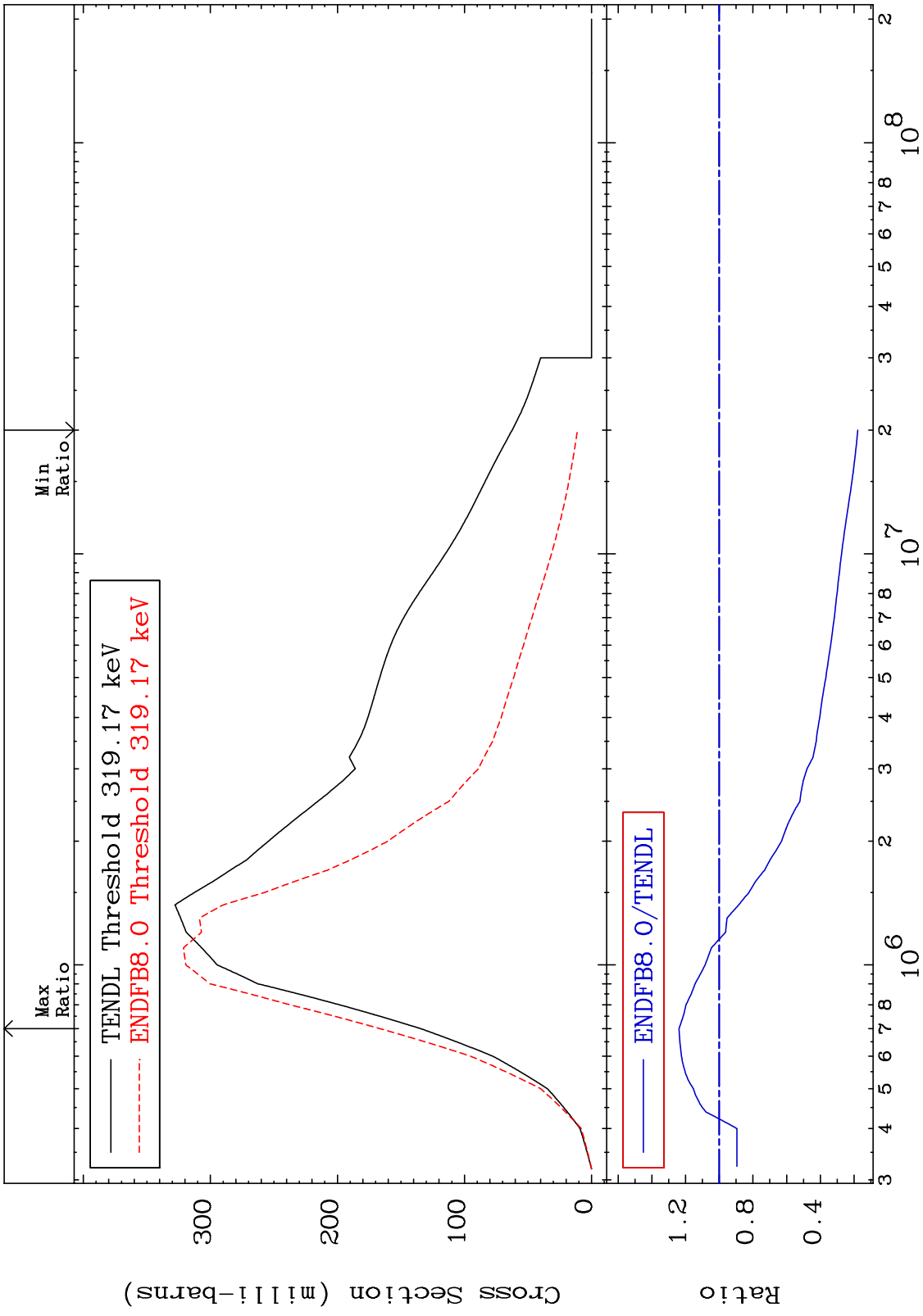
66-Dy-158  
-31.13 To 9999. %



66-Dy-158

Incident Energy (eV)

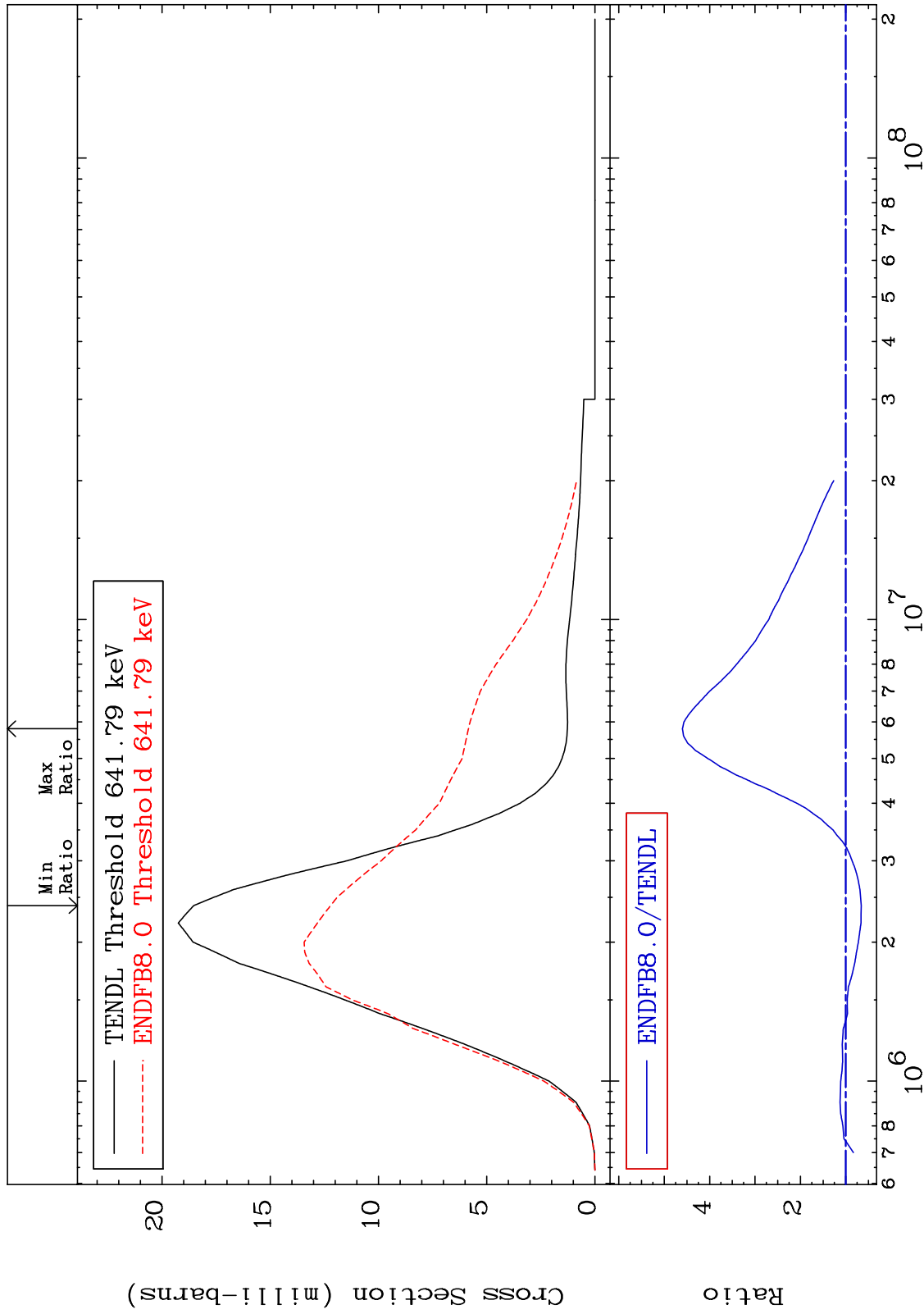
MAT 6631      MT= 52 (n,n') Level Cross Section      66-Dy-158  
 -82.24 To 23.85 %



MAT 6631

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

66-Dy-158  
-34.11 To 359.8 %



12

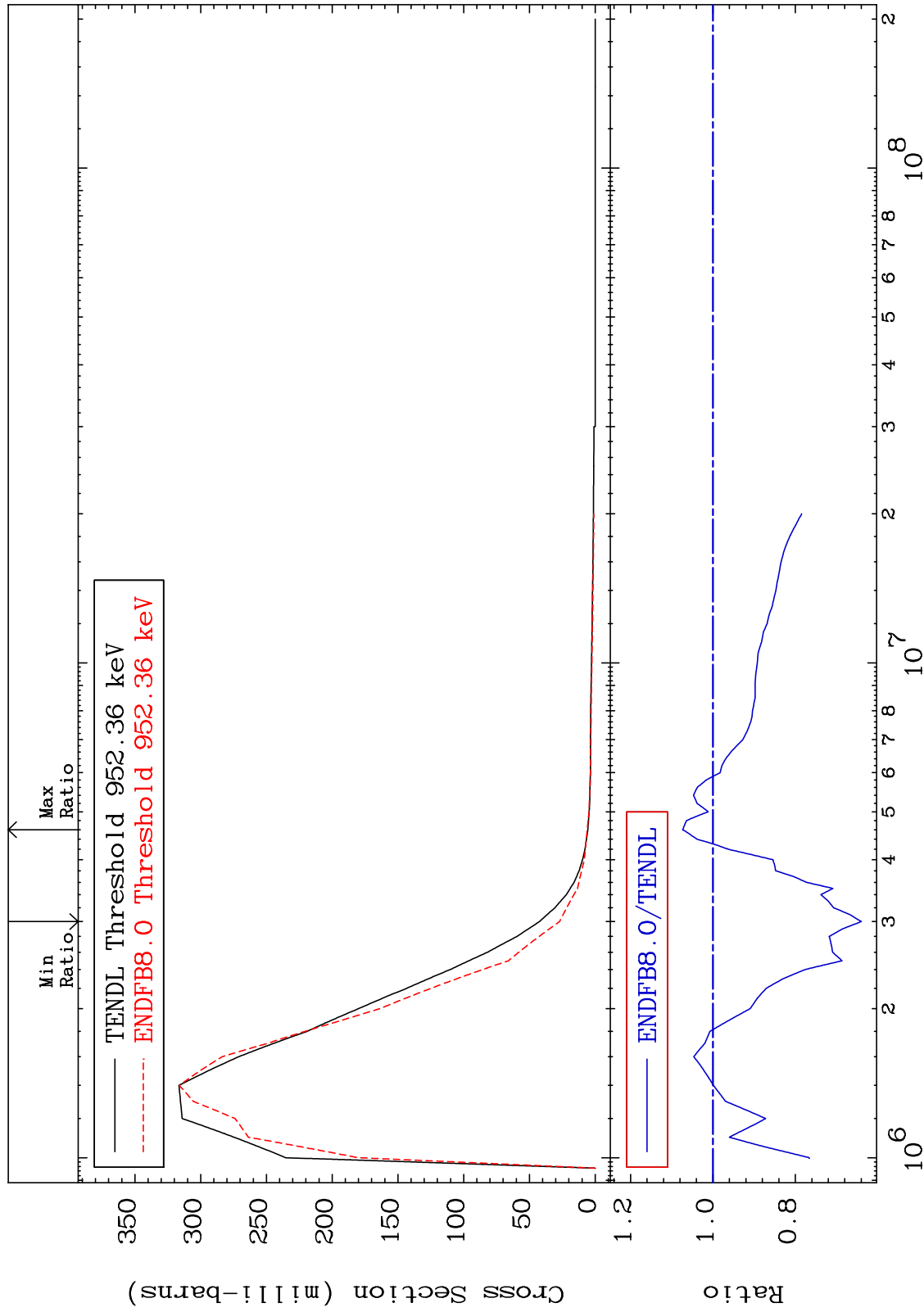
Incident Energy (eV)

66-Dy-158

MAT 6631

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

66-Dy-158  
-36.02 To 7.348 %

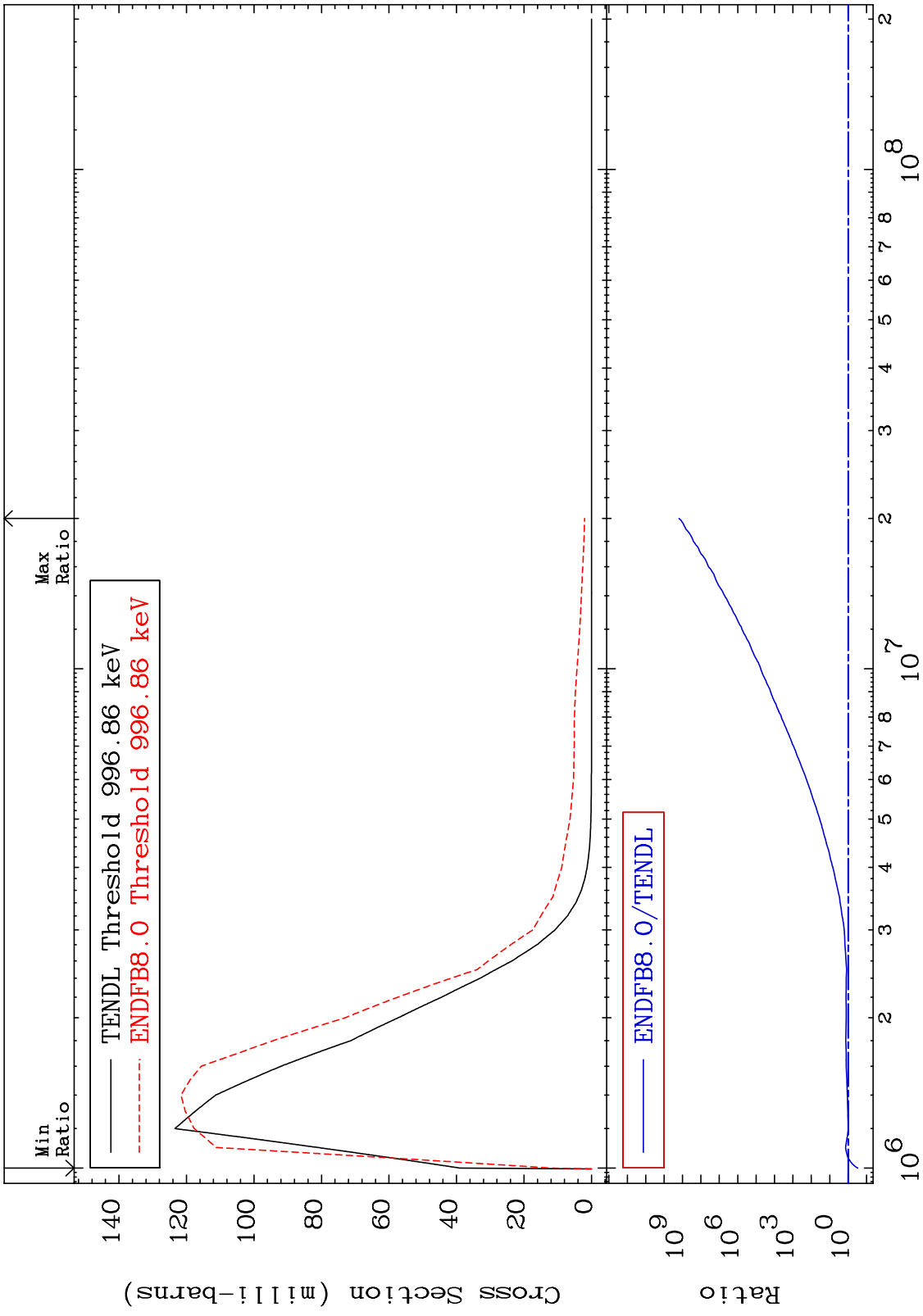


13

Incident Energy (eV)

66-Dy-158

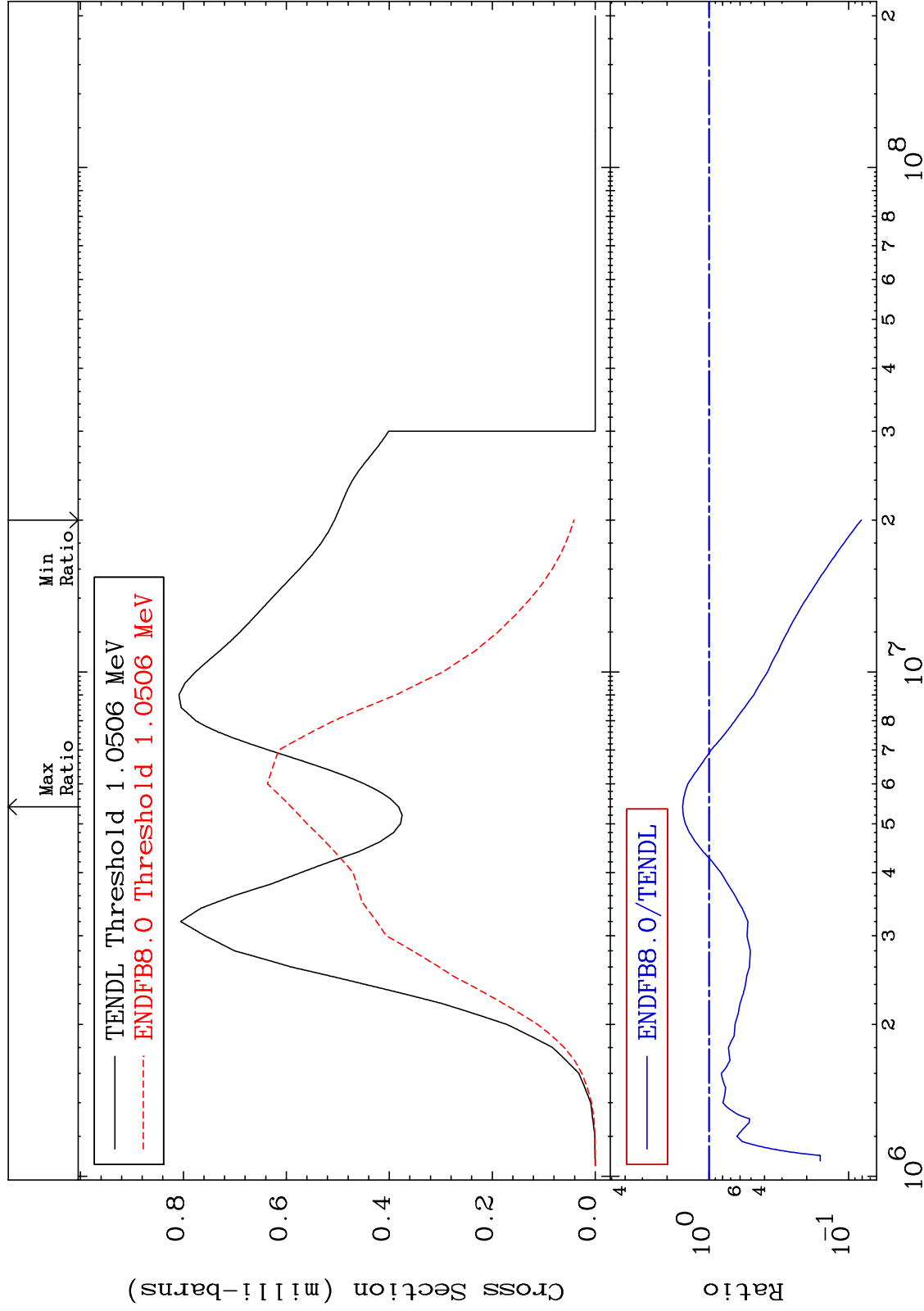
MAT 6631 MT= 55 (n,n') Level Cross Section 66-Dy-158  
 -70.43 To 9999. %



MAT 6631

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

66-Dy-158  
-91.89 To 54.58 %



15

Incident Energy (eV)

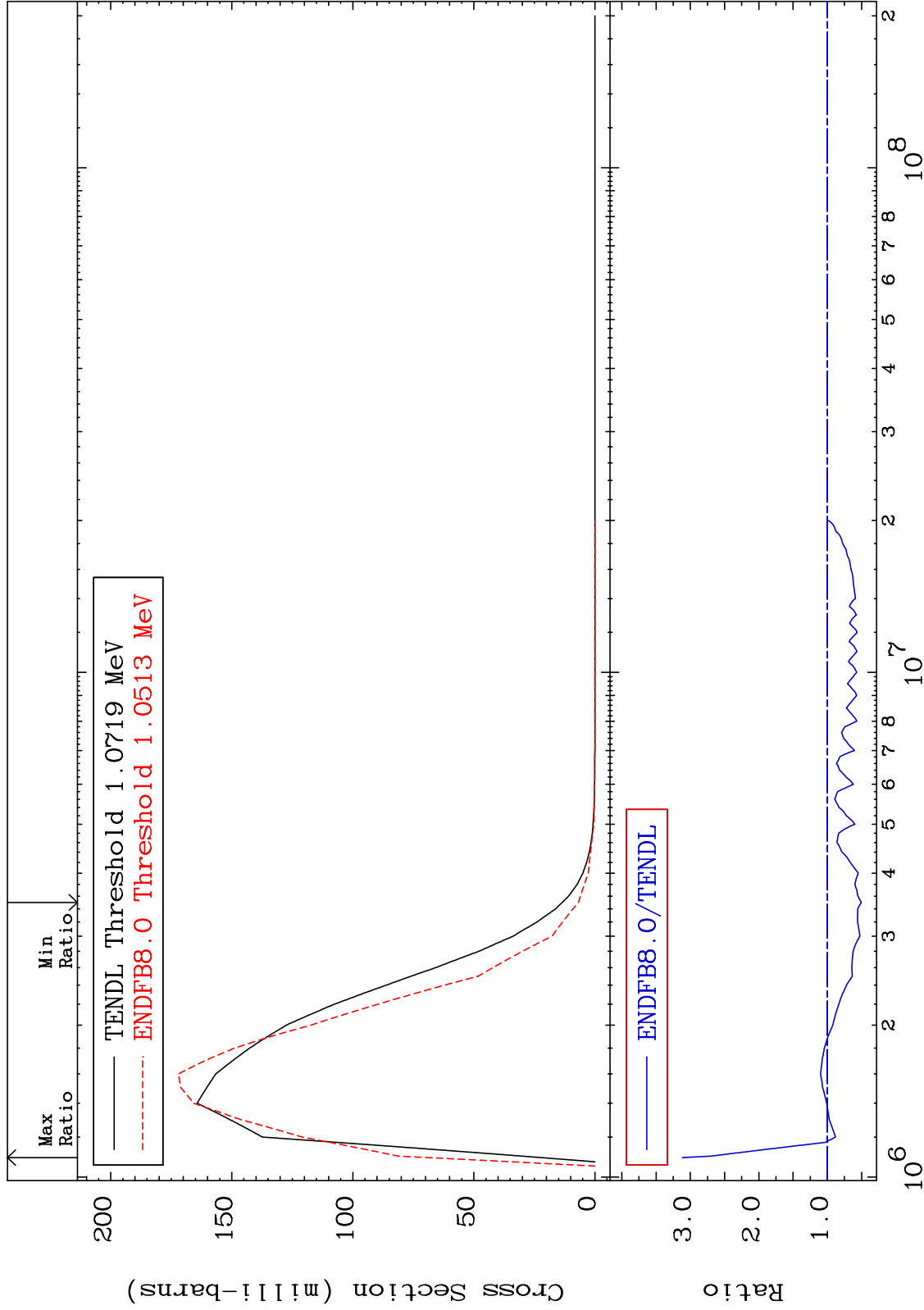
66-Dy-158



MAT 6631

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

66-Dy-158  
-49.59 To 211.5 %



16

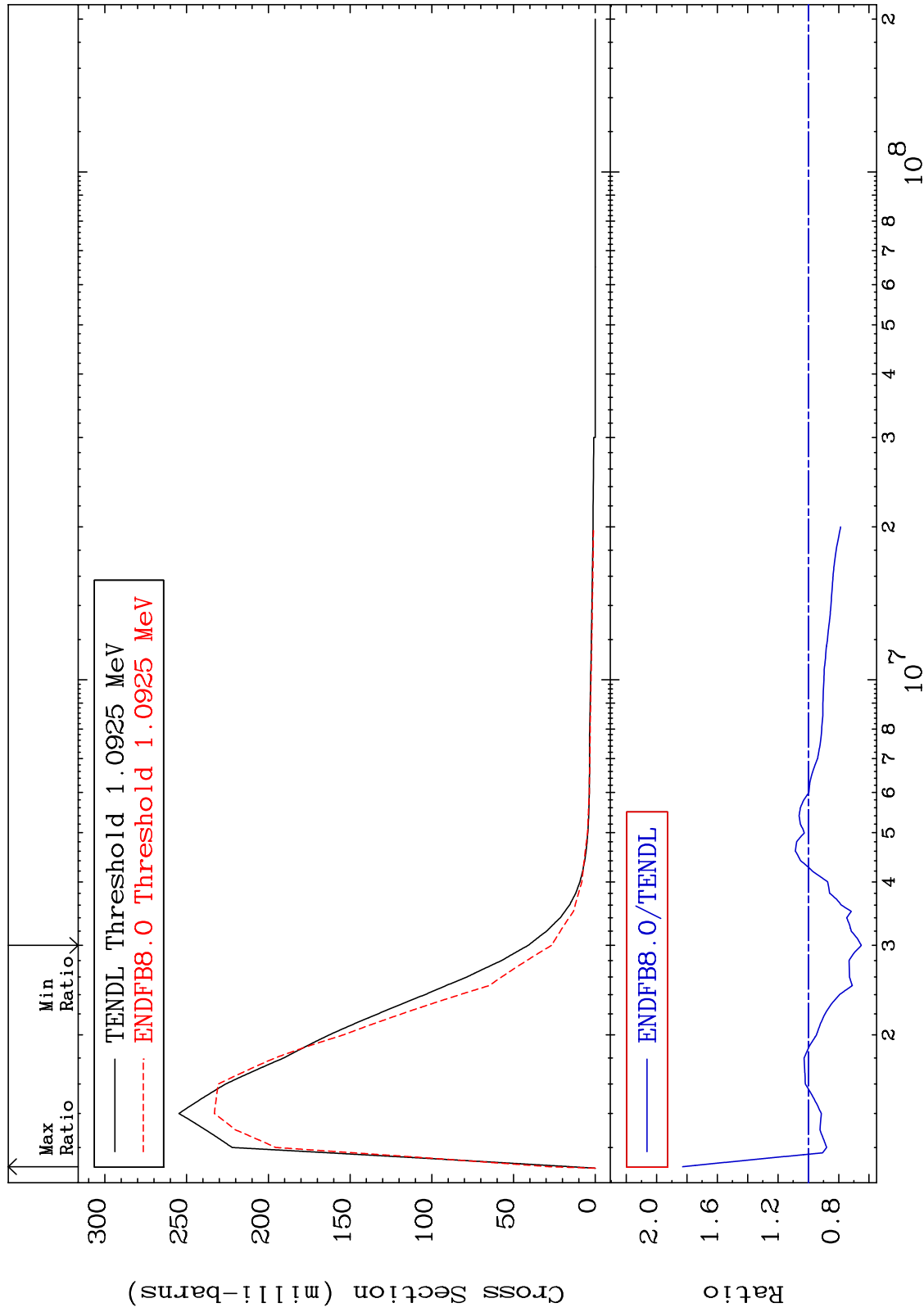
Incident Energy (eV)

66-Dy-158

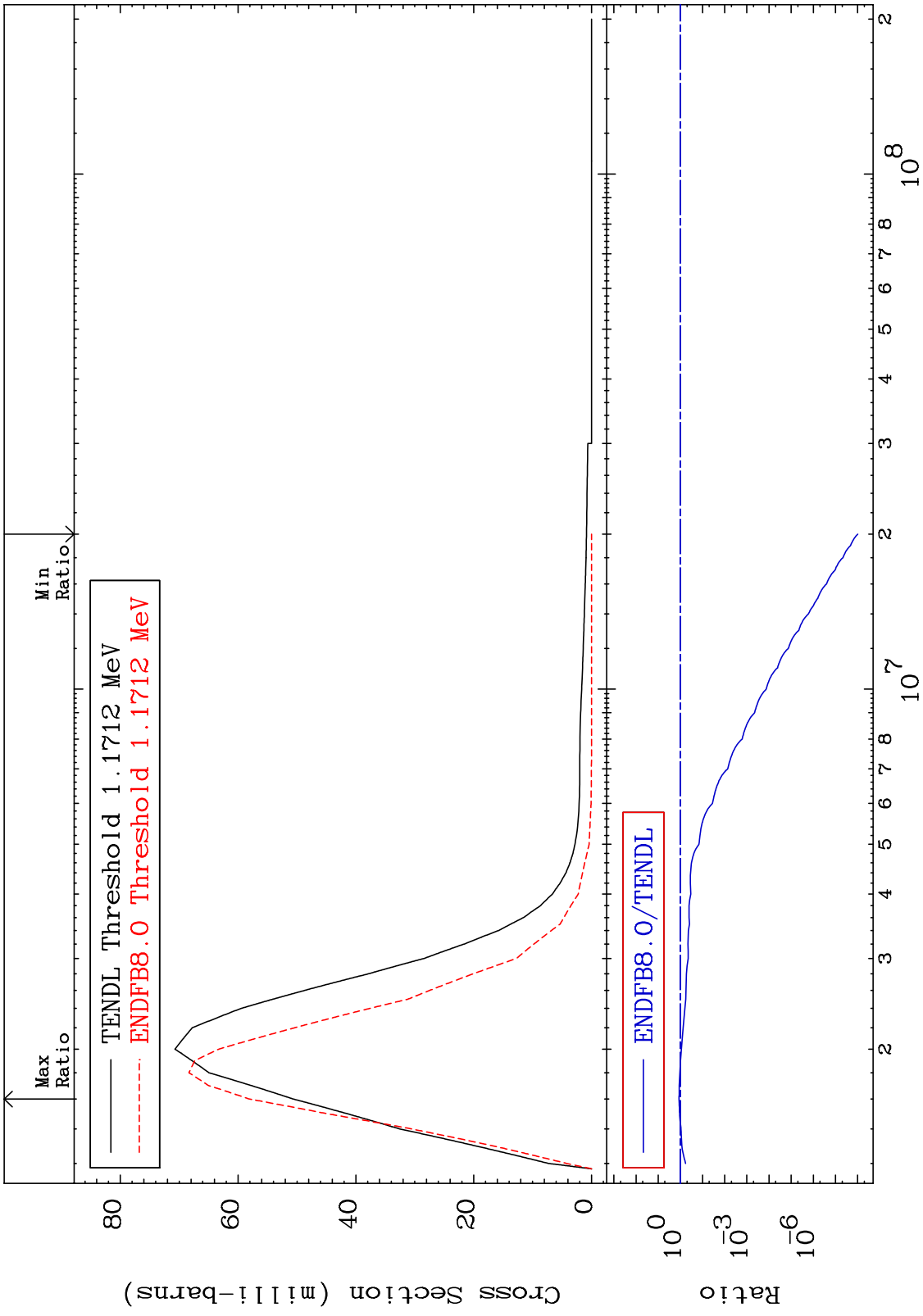
MAT 6631

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

66-Dy-158  
-34.93 To 82.83 %



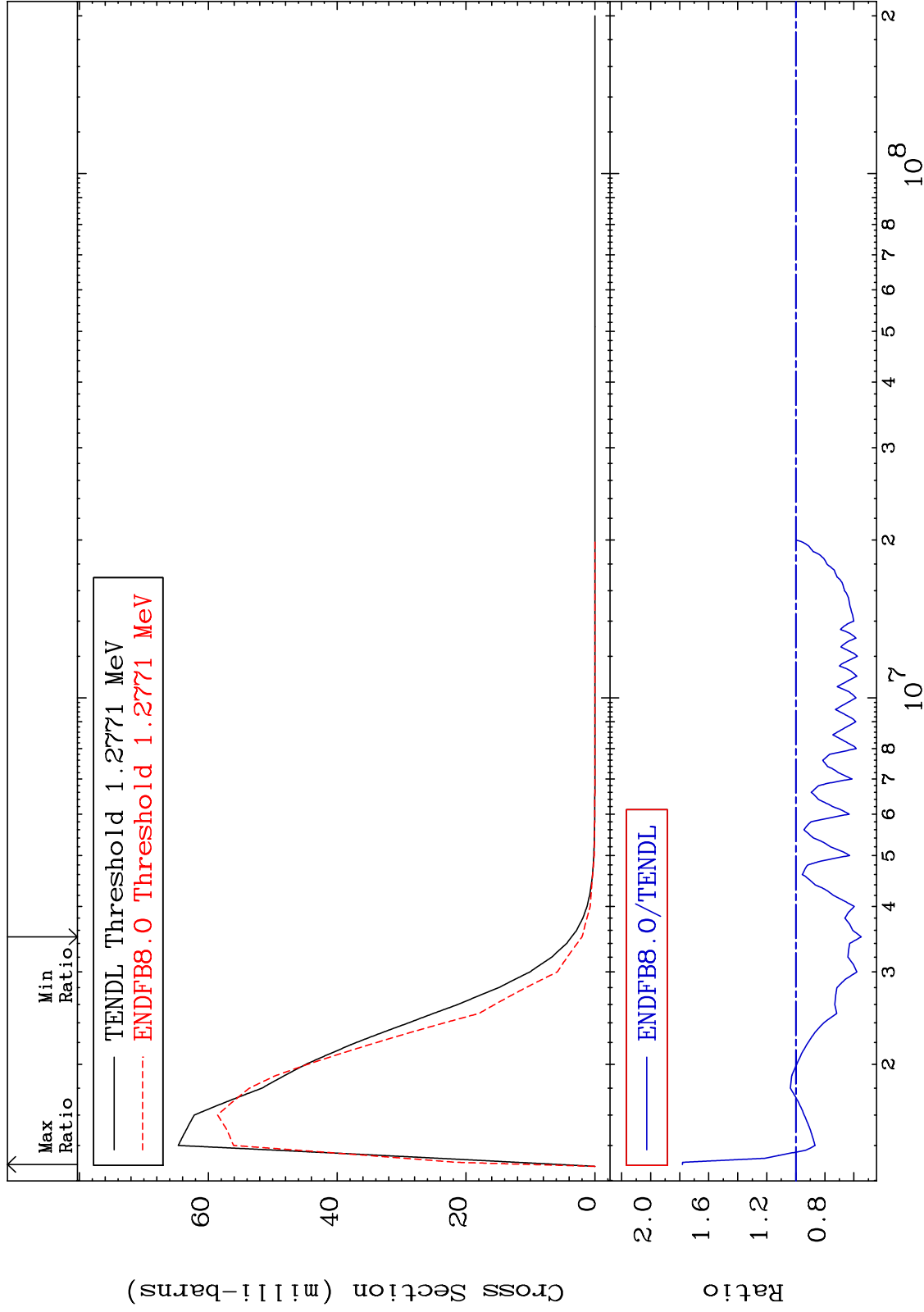
MAT 6631      MT= 59 (n,n') Level Cross Section      66-Dy-158  
 -100.0 To 14.70 %



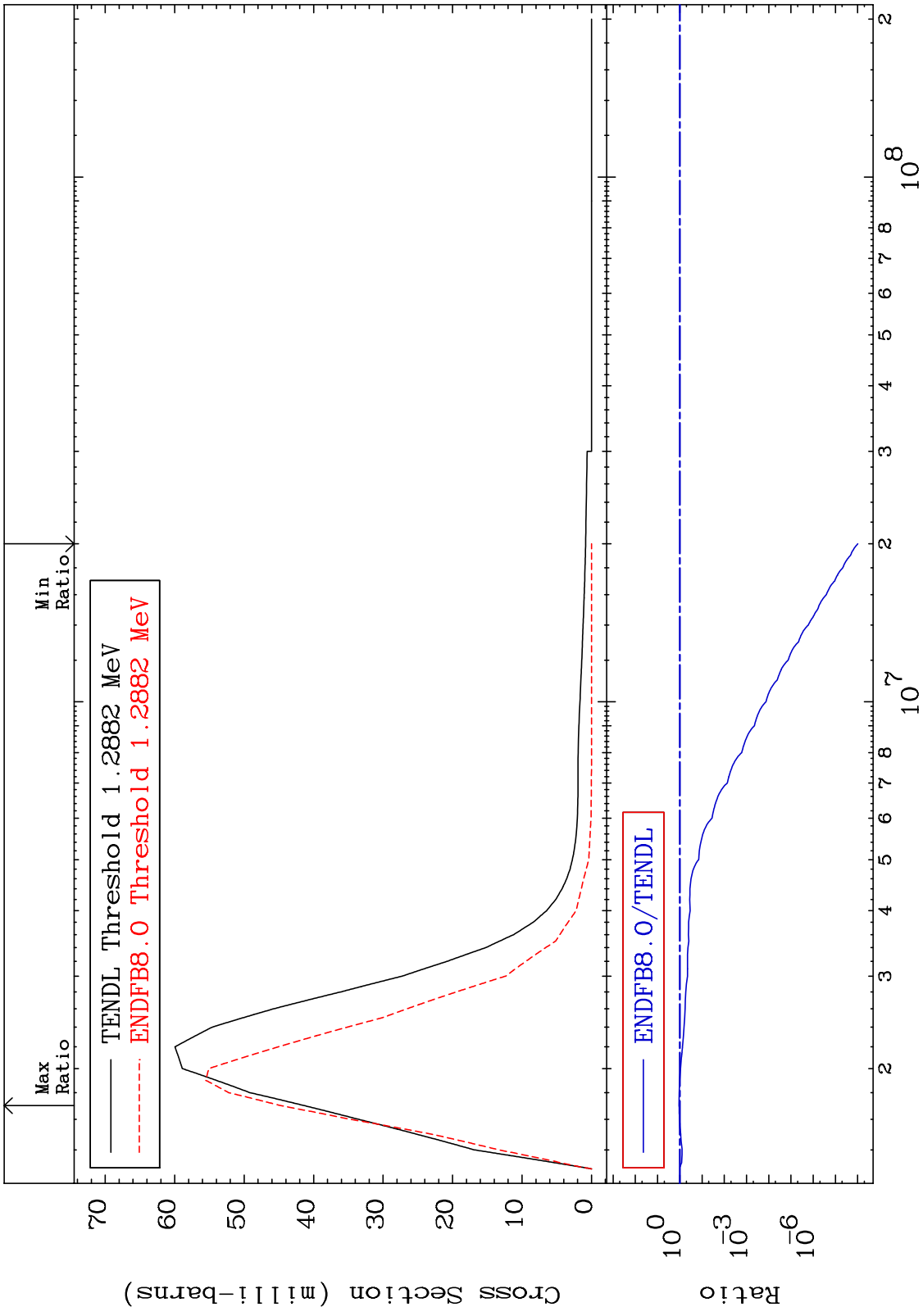
MAT 6631

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

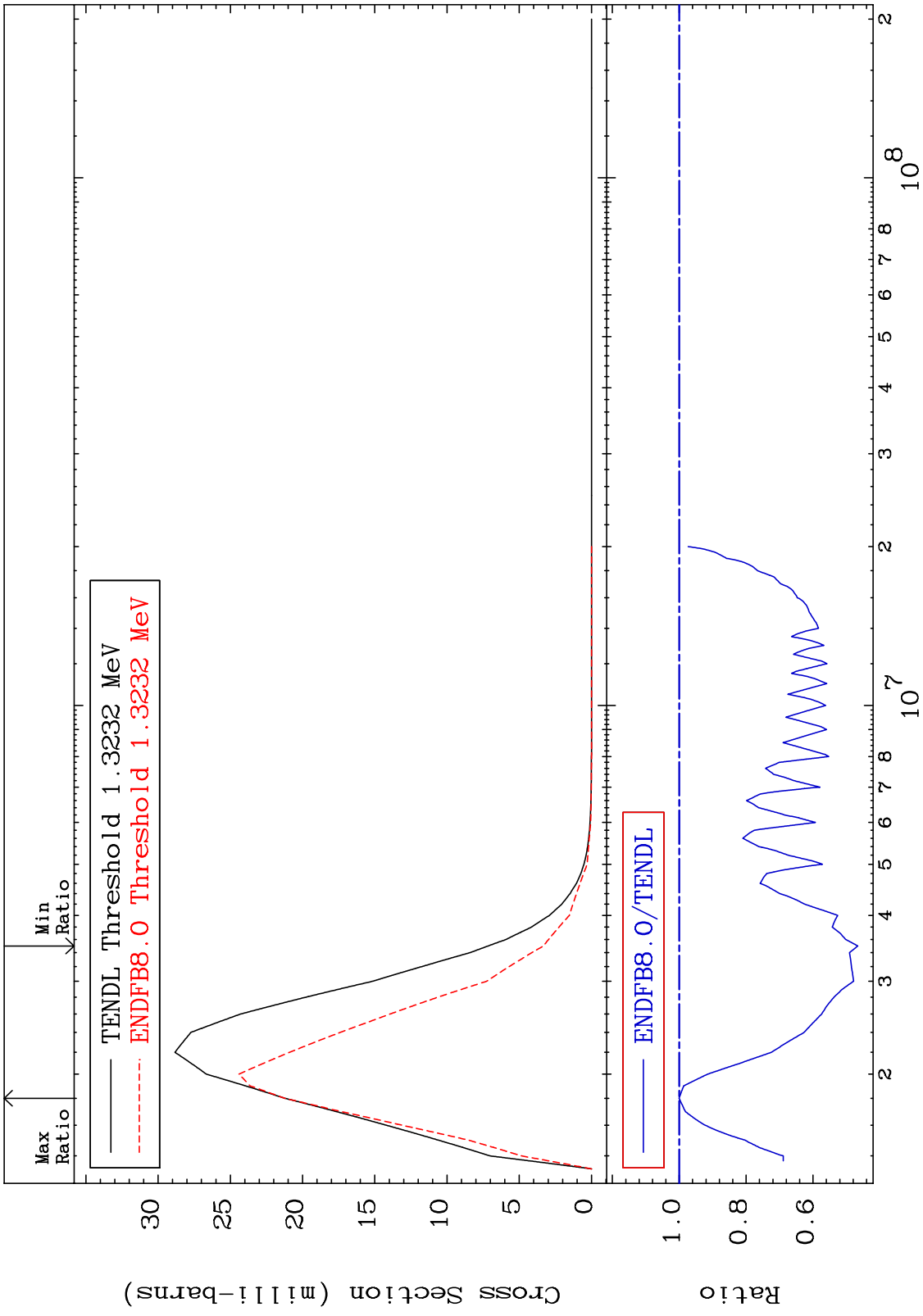
66-Dy-158  
-45.10 To 78.10 %



MAT 6631 MT= 61 (n,n') Level Cross Section 66-Dy-158  
 -100.0 To 8.249 %



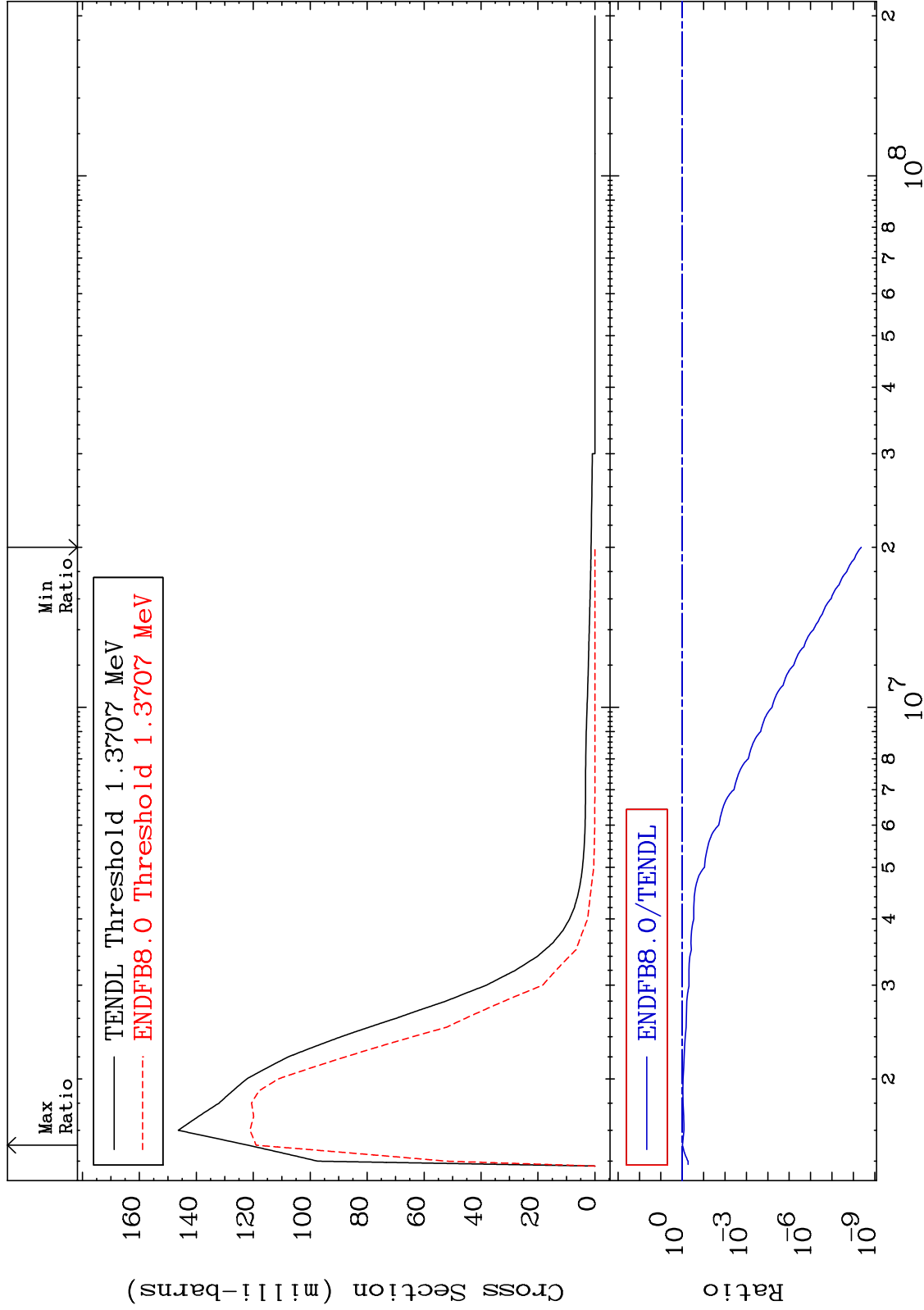
MAT 6631 MT= 62 (n,n') Level Cross Section 66-Dy-158  
 -53.40 To 0.065 %



MAT 6631

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

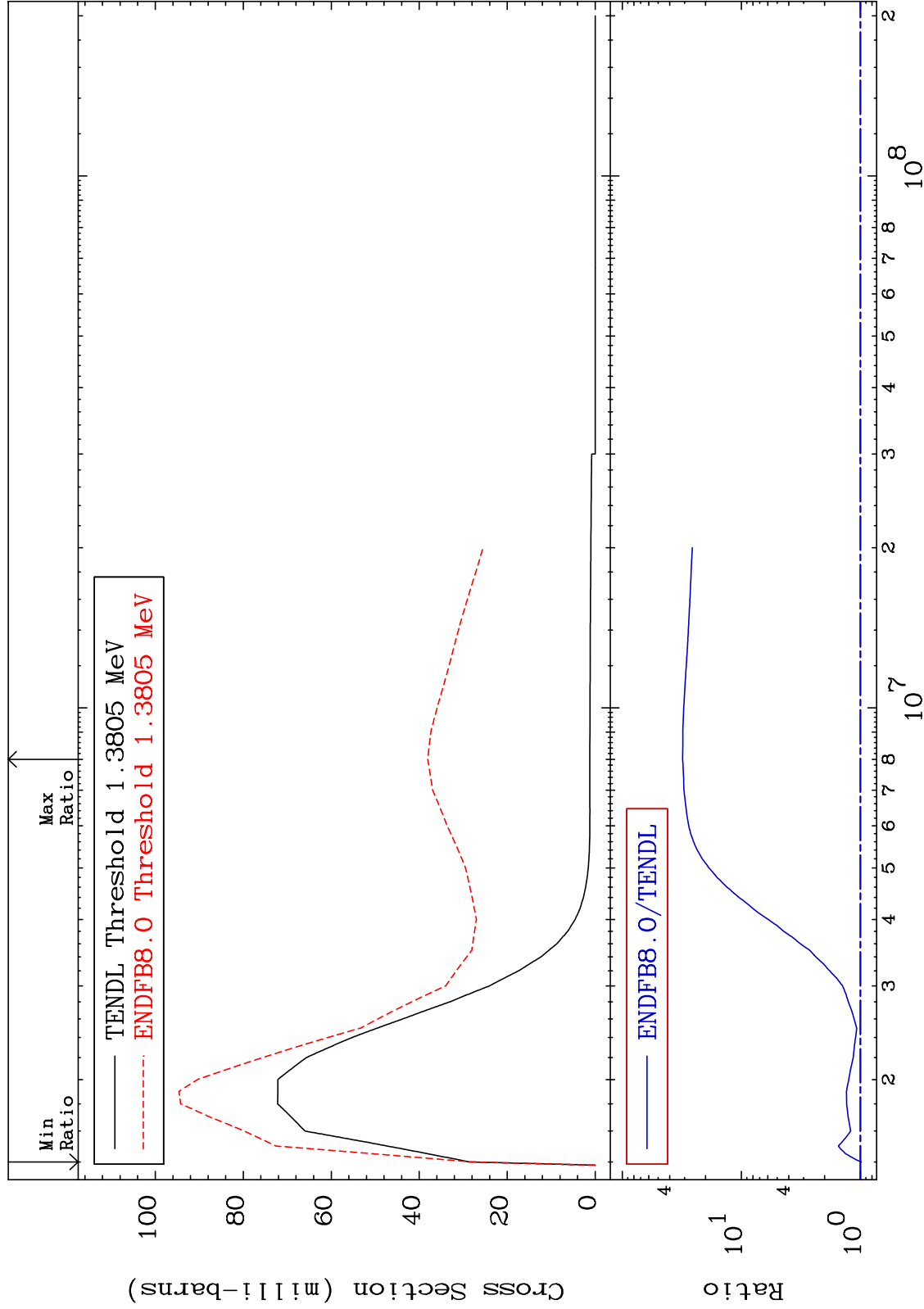
66-Dy-158  
-100.0 To -2.347%



MAT 6631

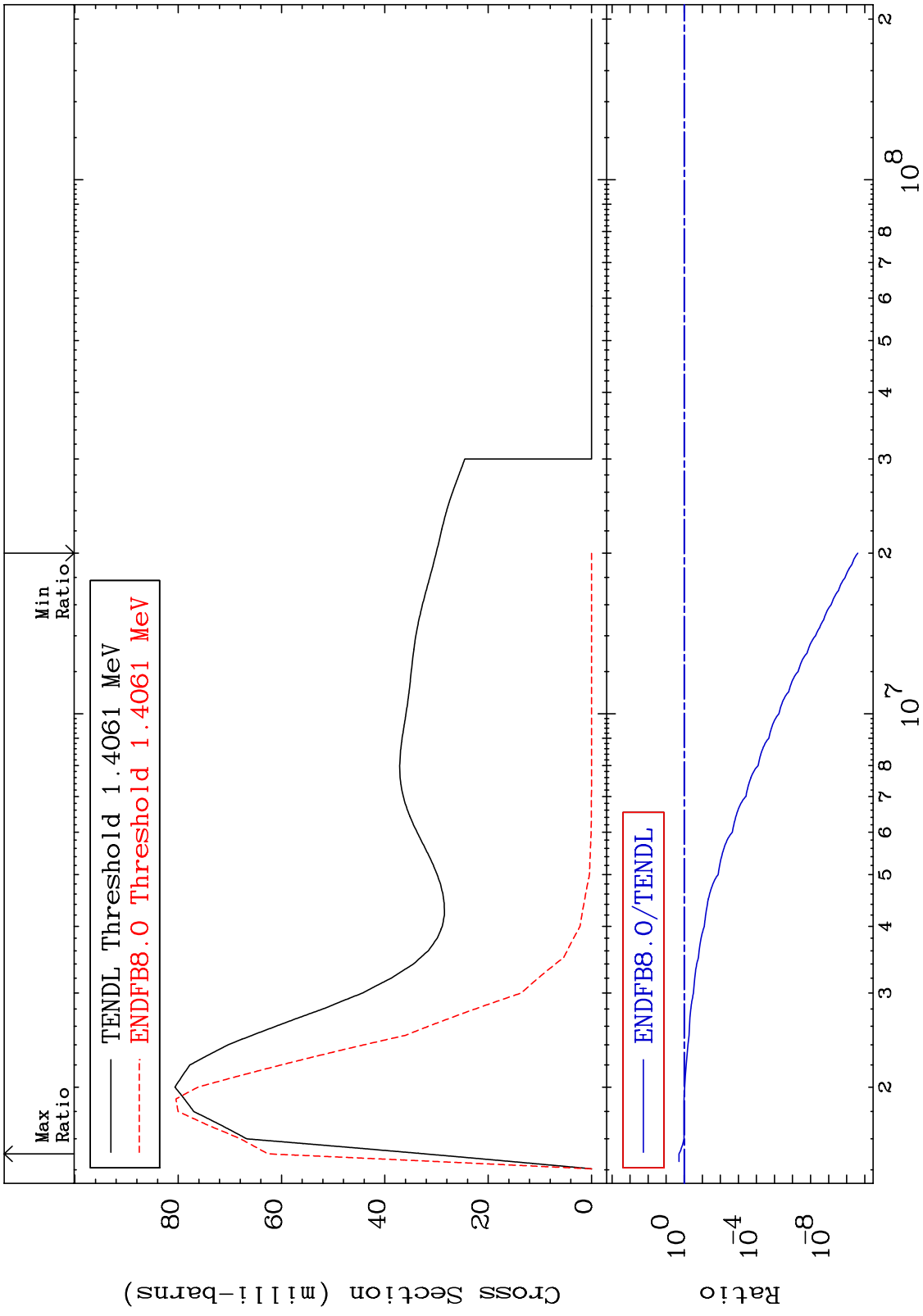
MT= 64 (n,n') Level  
Cross Section

66-Dy-158  
-1.764 To 3010. %

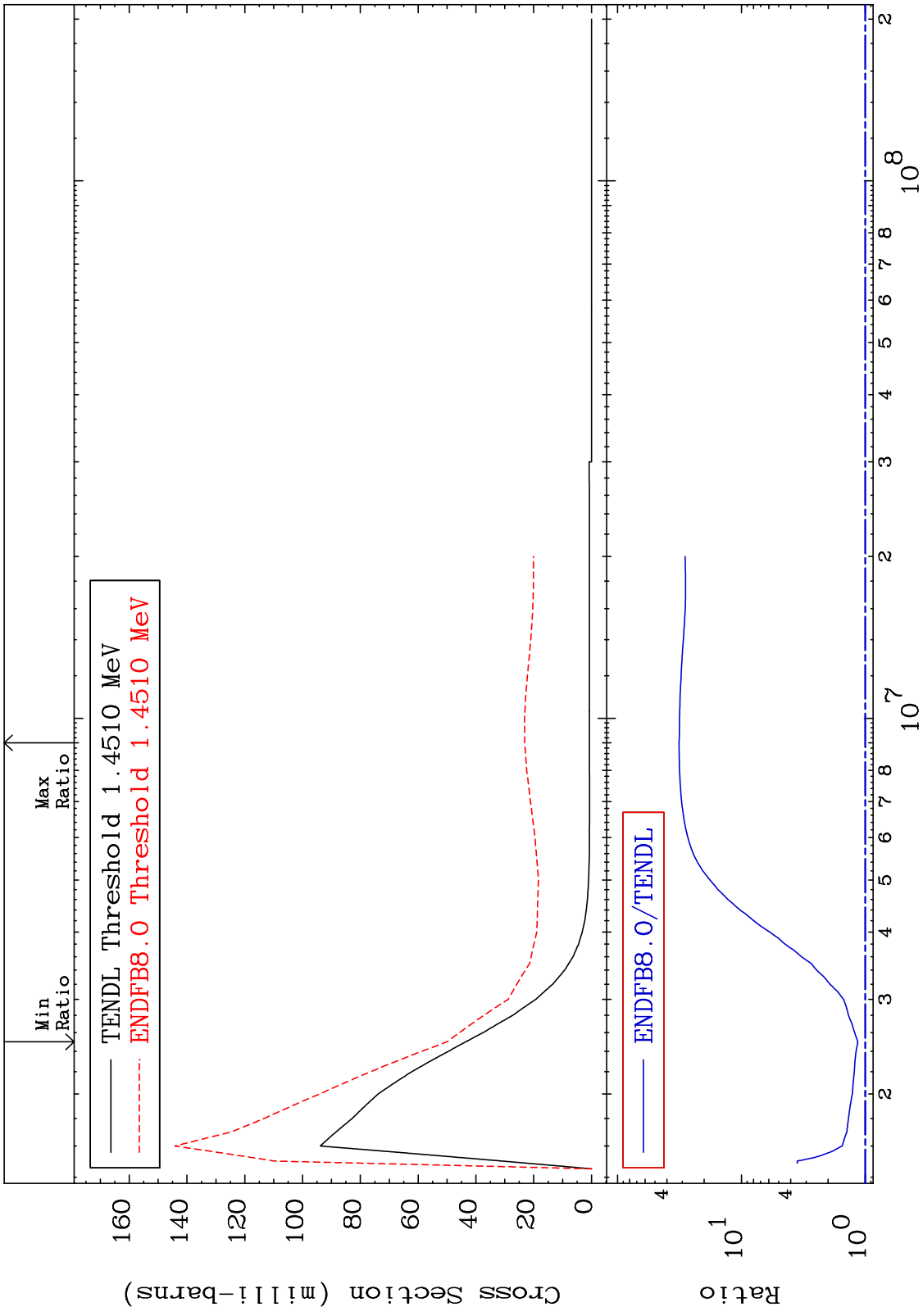




MAT 6631 MT= 65 (n,n') Level Cross Section 66-Dy-158  
 -100.0 To 93.86 %



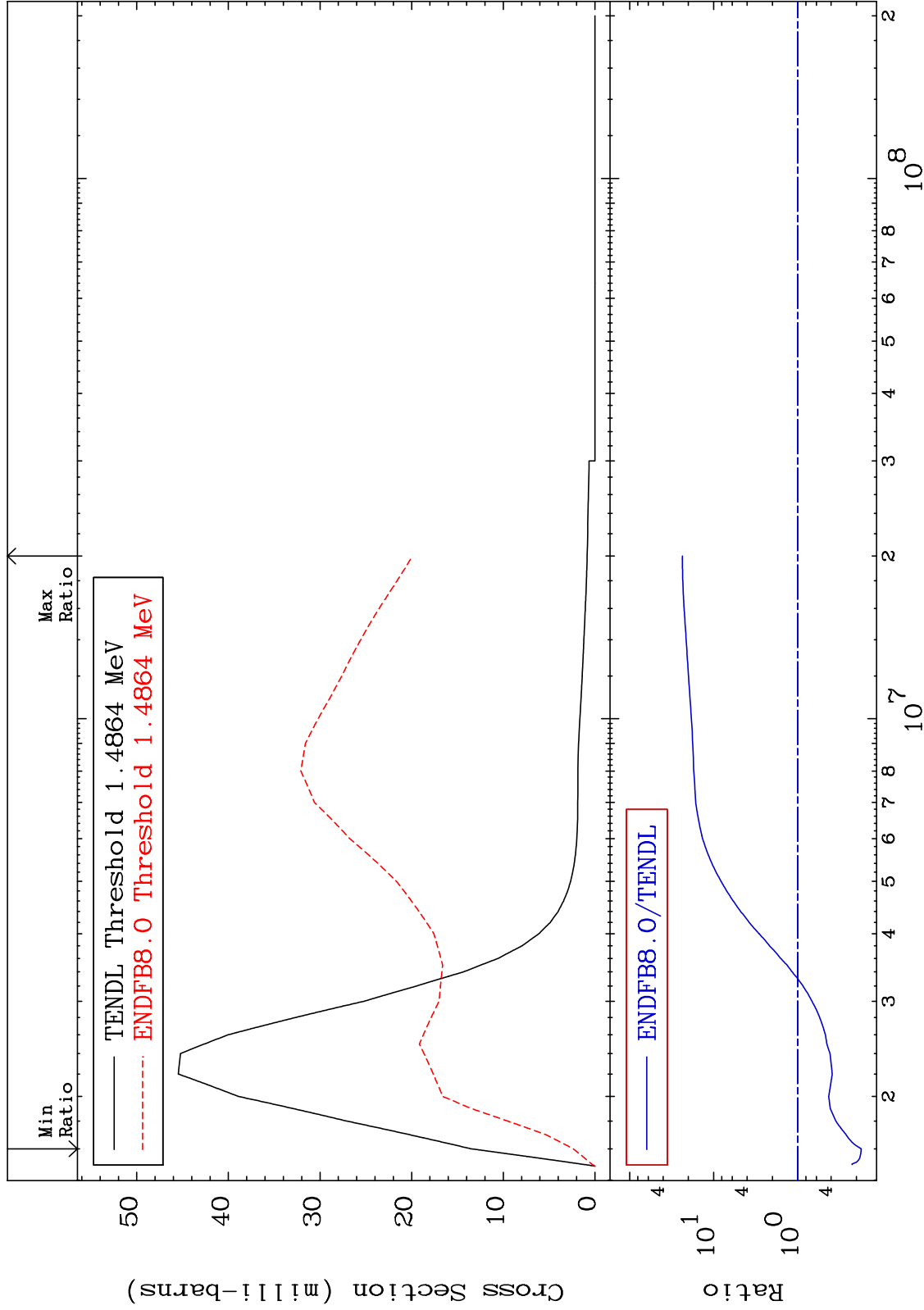
MAT 6631 MT= 66 (n,n') Level Cross Section 66-Dy-158 14.80 To 3088. %



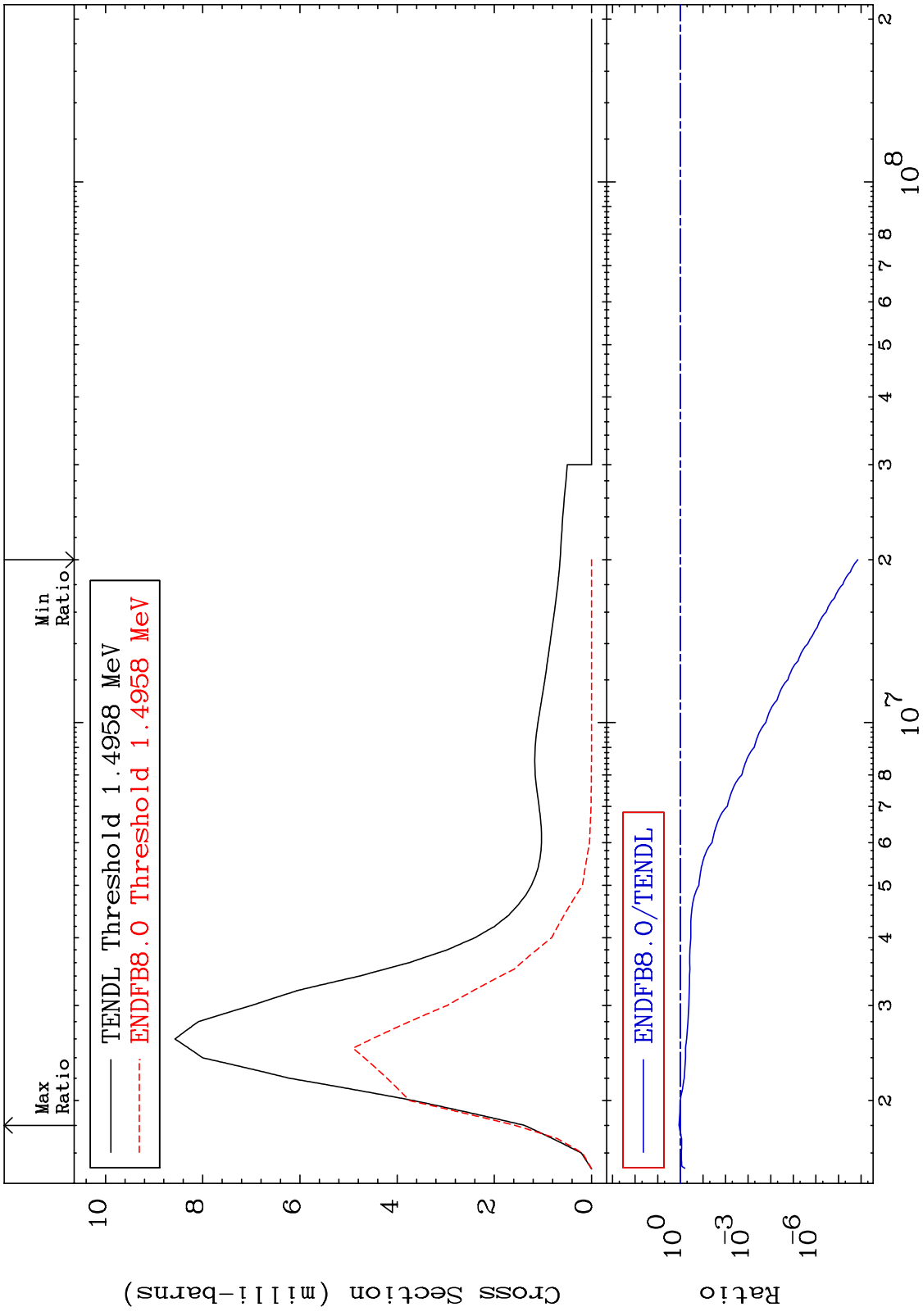
MAT 6631

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

66-Dy-158  
-82.50 To 2252. %



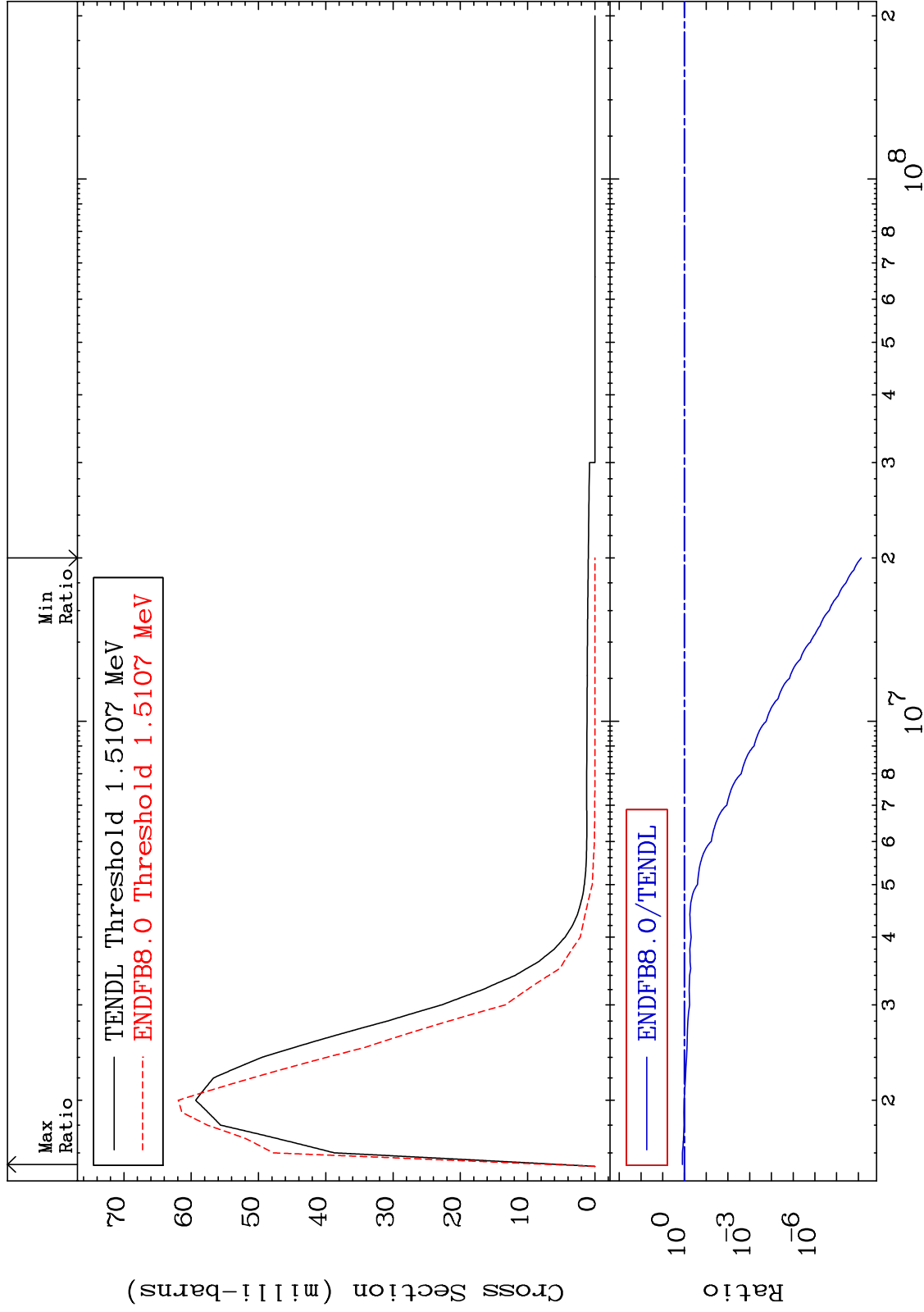
MAT 6631 MT= 68 (n,n') Level Cross Section 66-Dy-158 -100.0 To 13.98 %



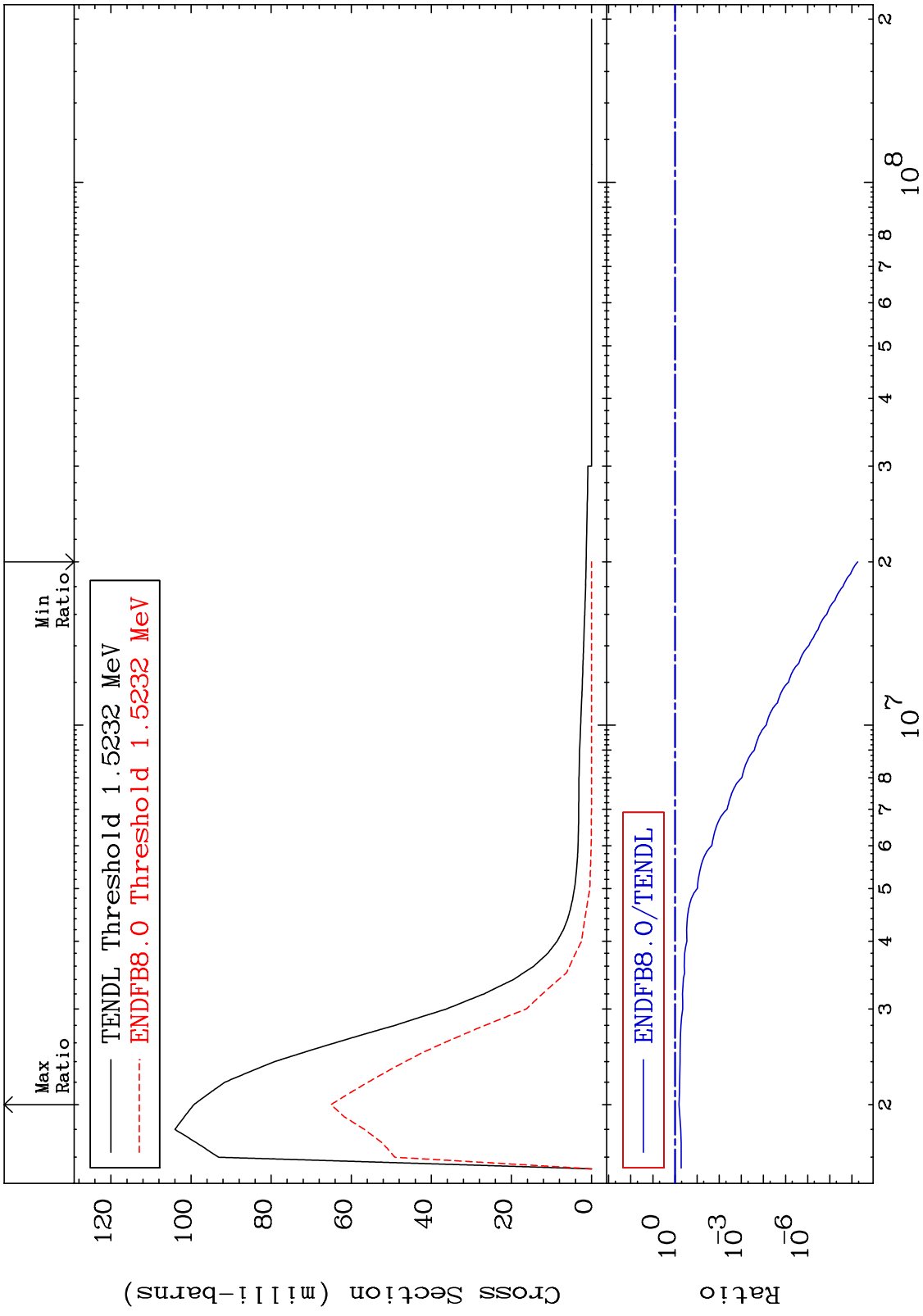
MAT 6631

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

66-Dy-158  
-100.0 To 23.37 %



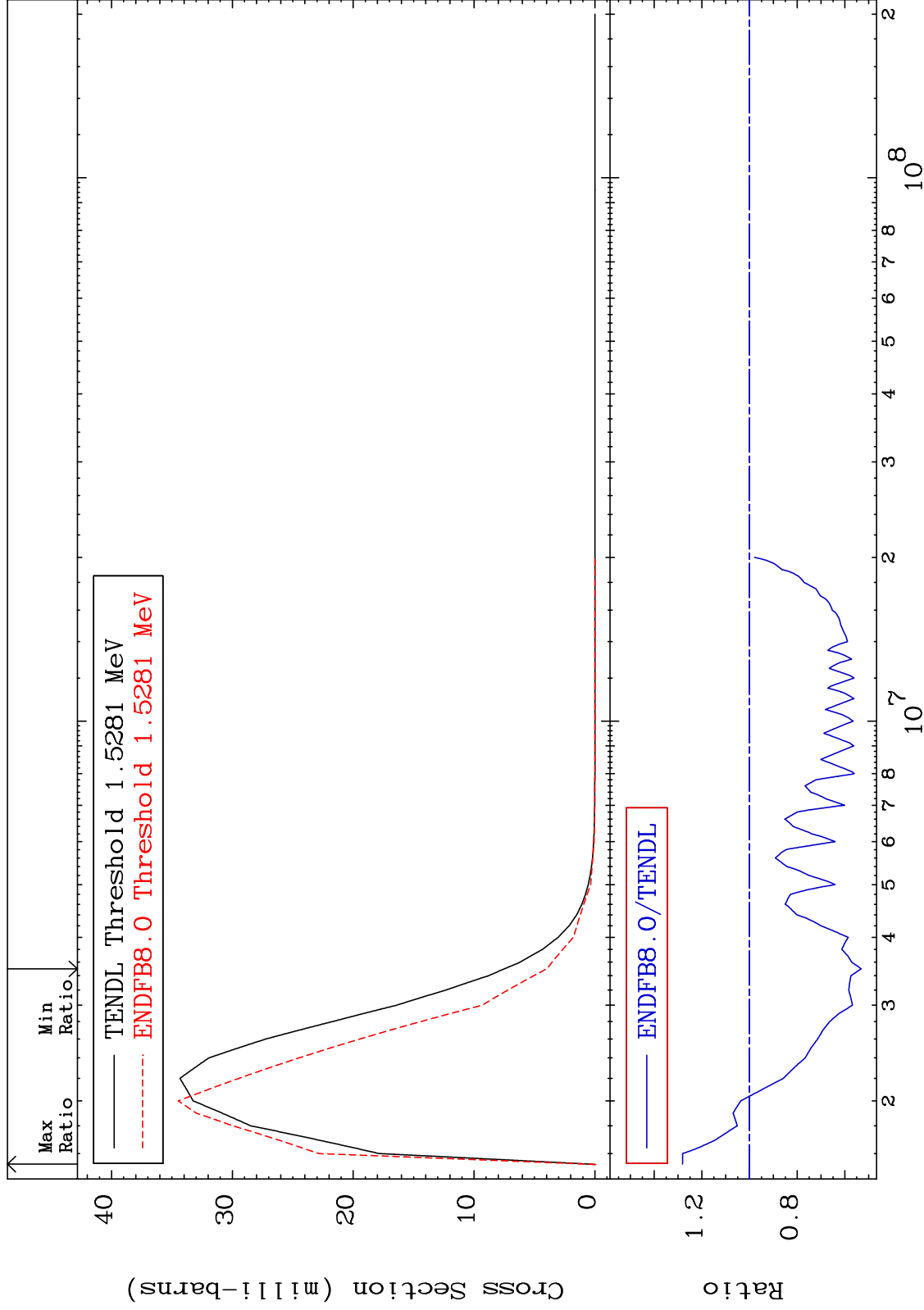
MAT 6631 MT= 70 (n,n') Level Cross Section 66-Dy-158  
 -100.0 To -34.49%



MAT 6631

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

66-Dy-158  
-46.91 To 28.17 %

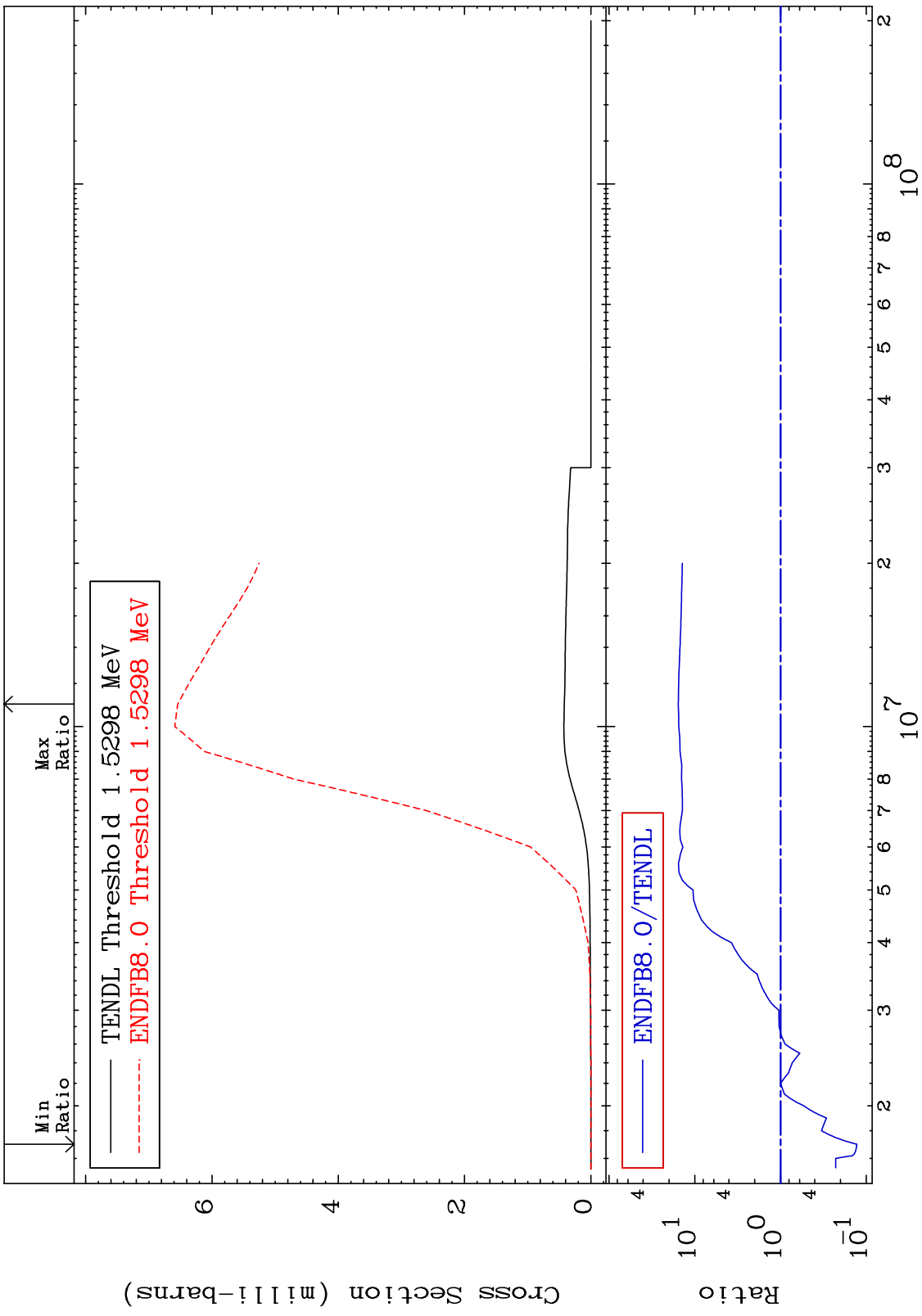


30

Incident Energy (eV)

66-Dy-158

MAT 6631 MT= 72 (n,n') Level Cross Section 66-Dy-158  
-87.11 To 1458. %

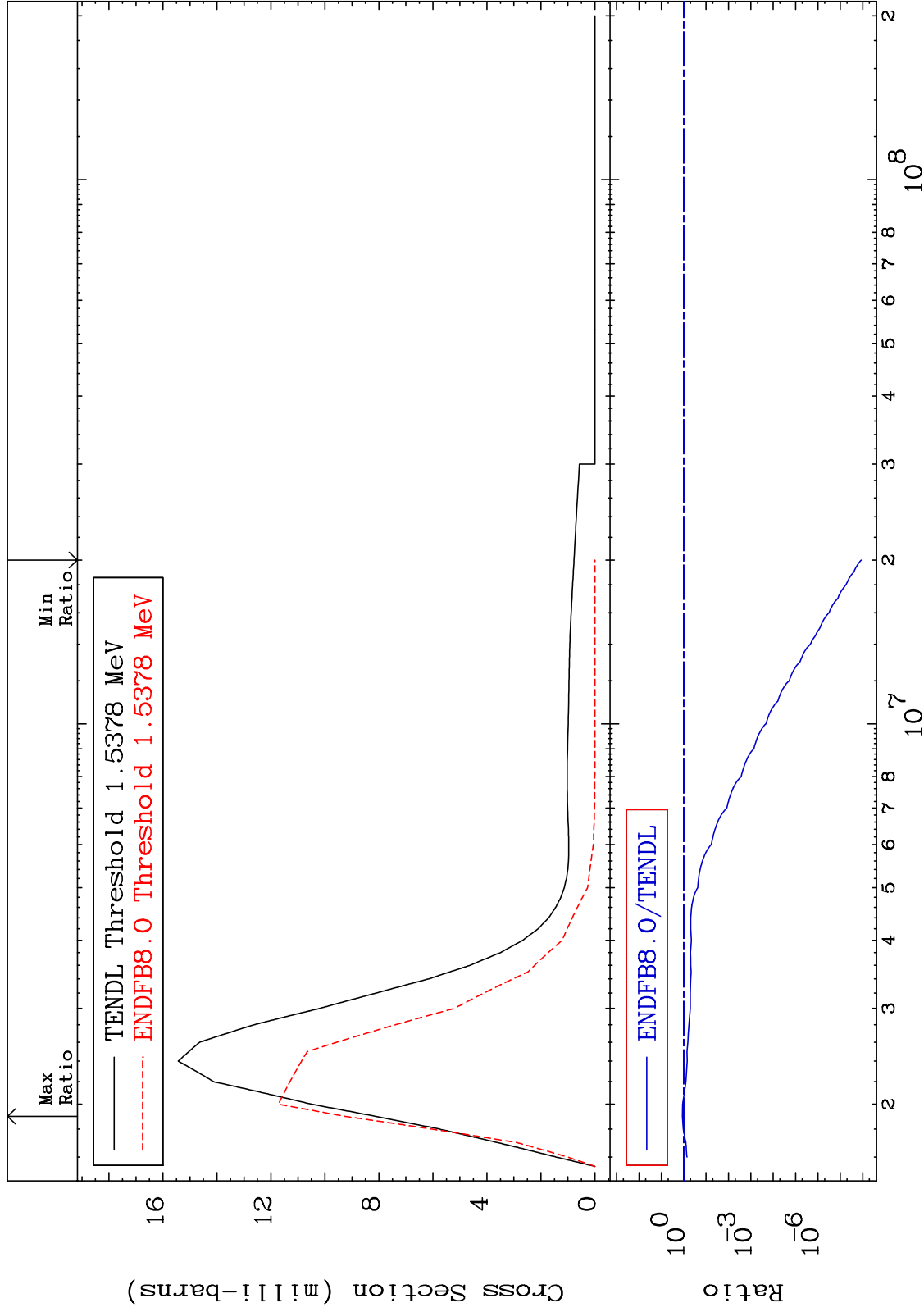




MAT 6631

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

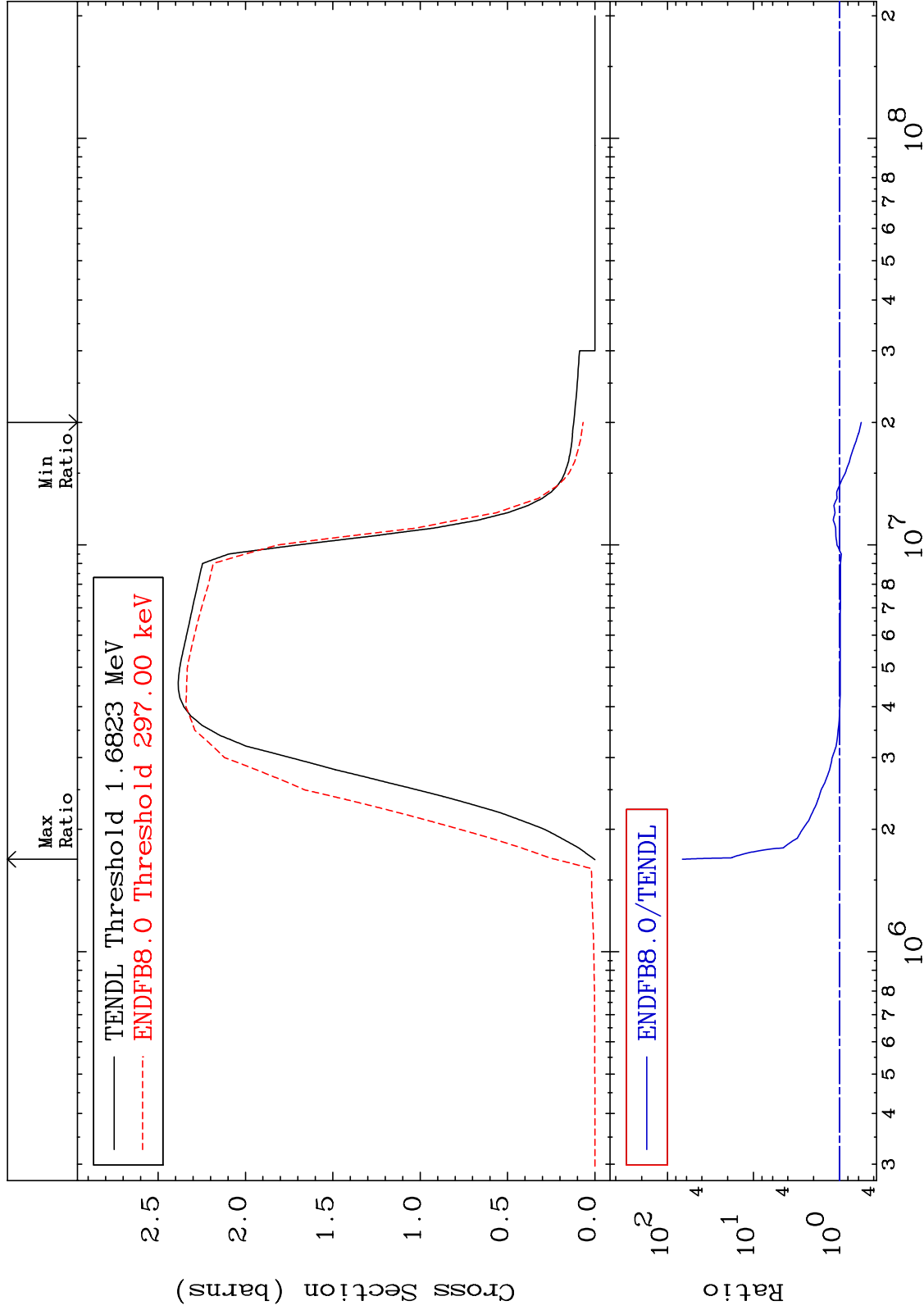
66-Dy-158  
-100.0 To 13.95 %



MAT 6631

(n, n') Continuum  
Cross Section

66-Dy-158  
-44.16 To 6609. %



33

Incident Energy (eV)

66-Dy-158

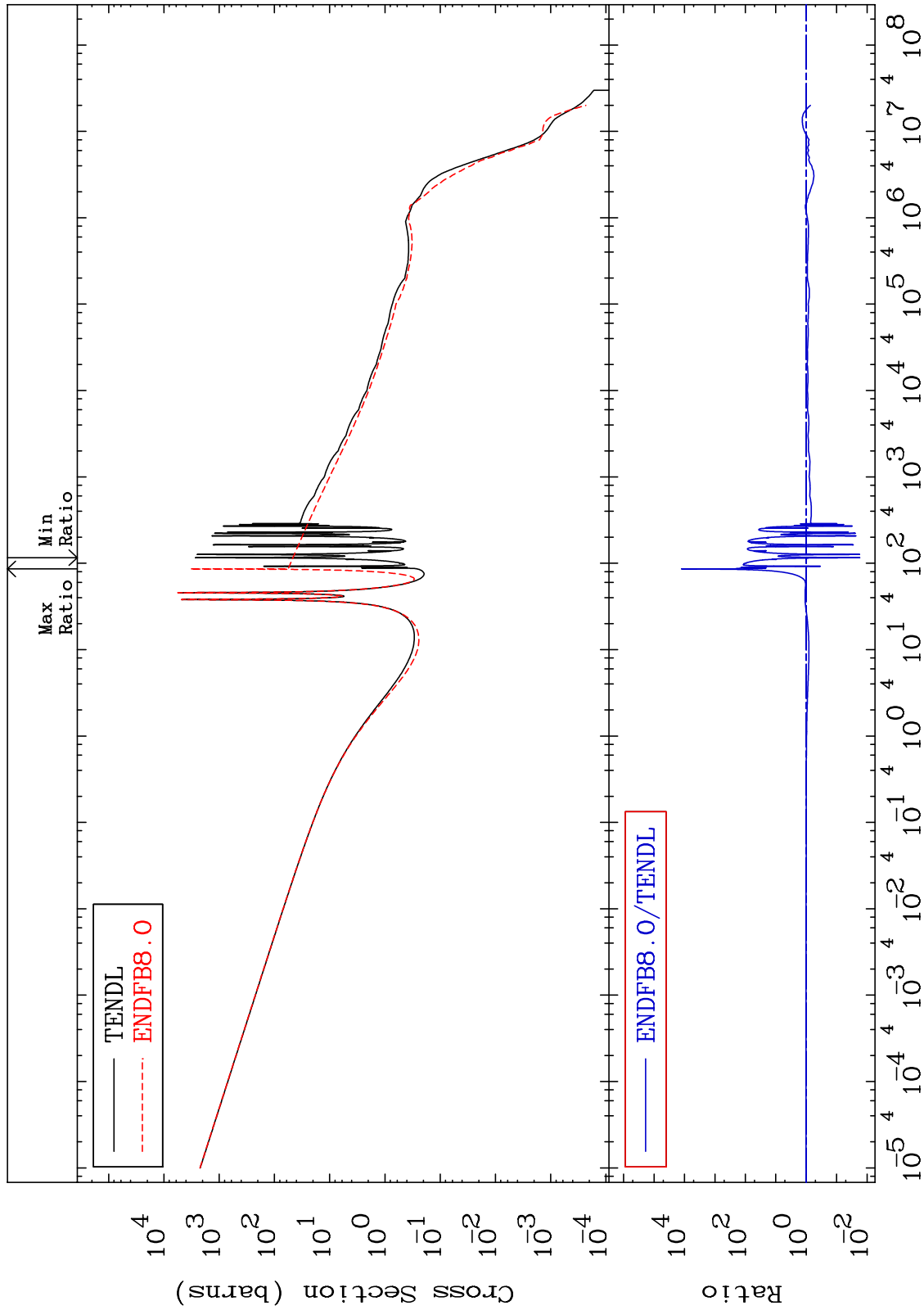
MAT 6631

(n,  $\gamma$ )

66-Dy-158

Cross Section

-98.26 To 9999. %



MAT 6631

(n,p)

66-Dy-158

-94.43 To 212.9 %

Cross Section

Min Ratio

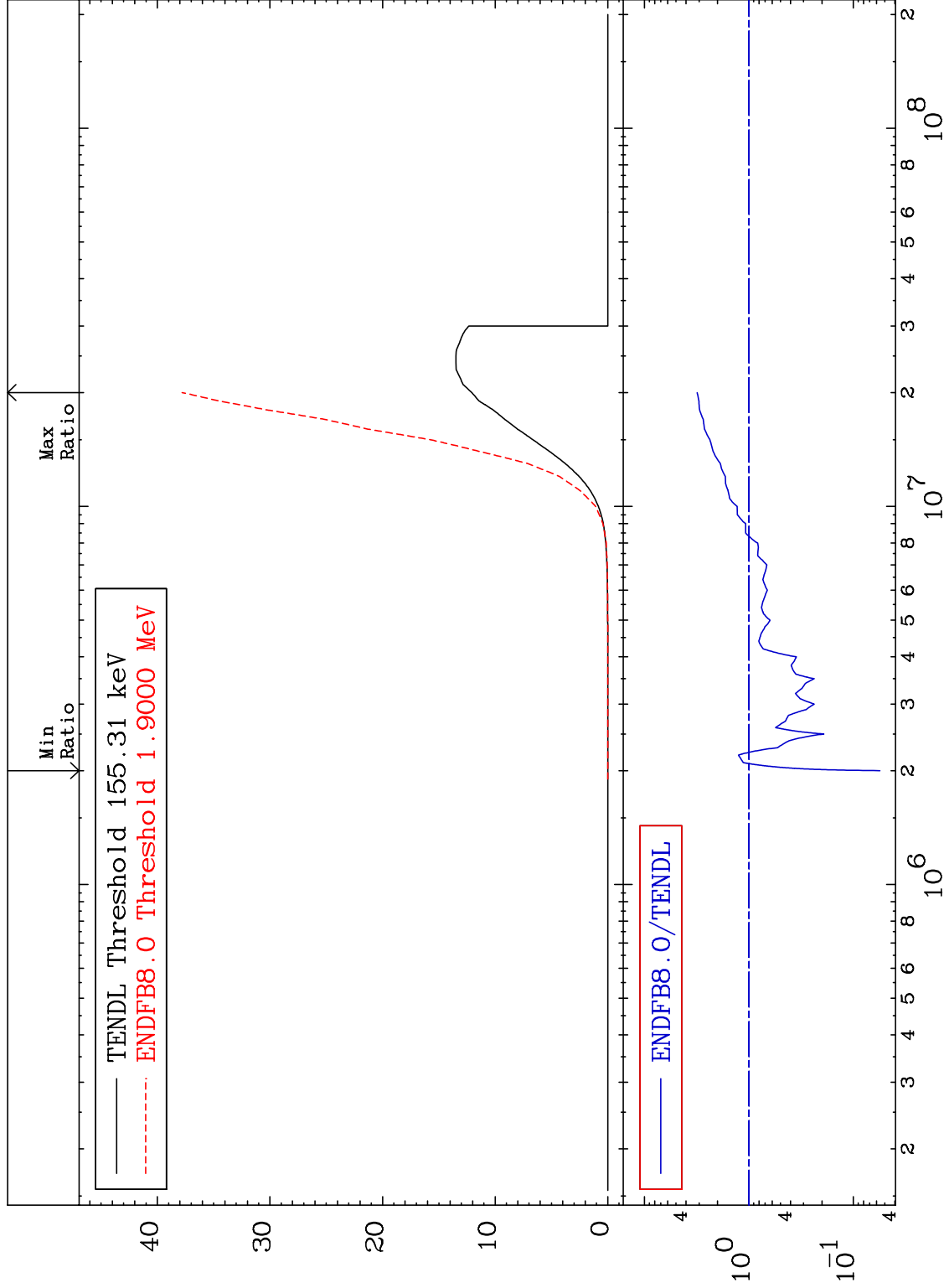
Max Ratio

TENDL Threshold 155.31 keV  
ENDFB8.0 Threshold 1.9000 MeV

Cross Section (milli-barns)

ENDFB8.0/TENDL

Ratio



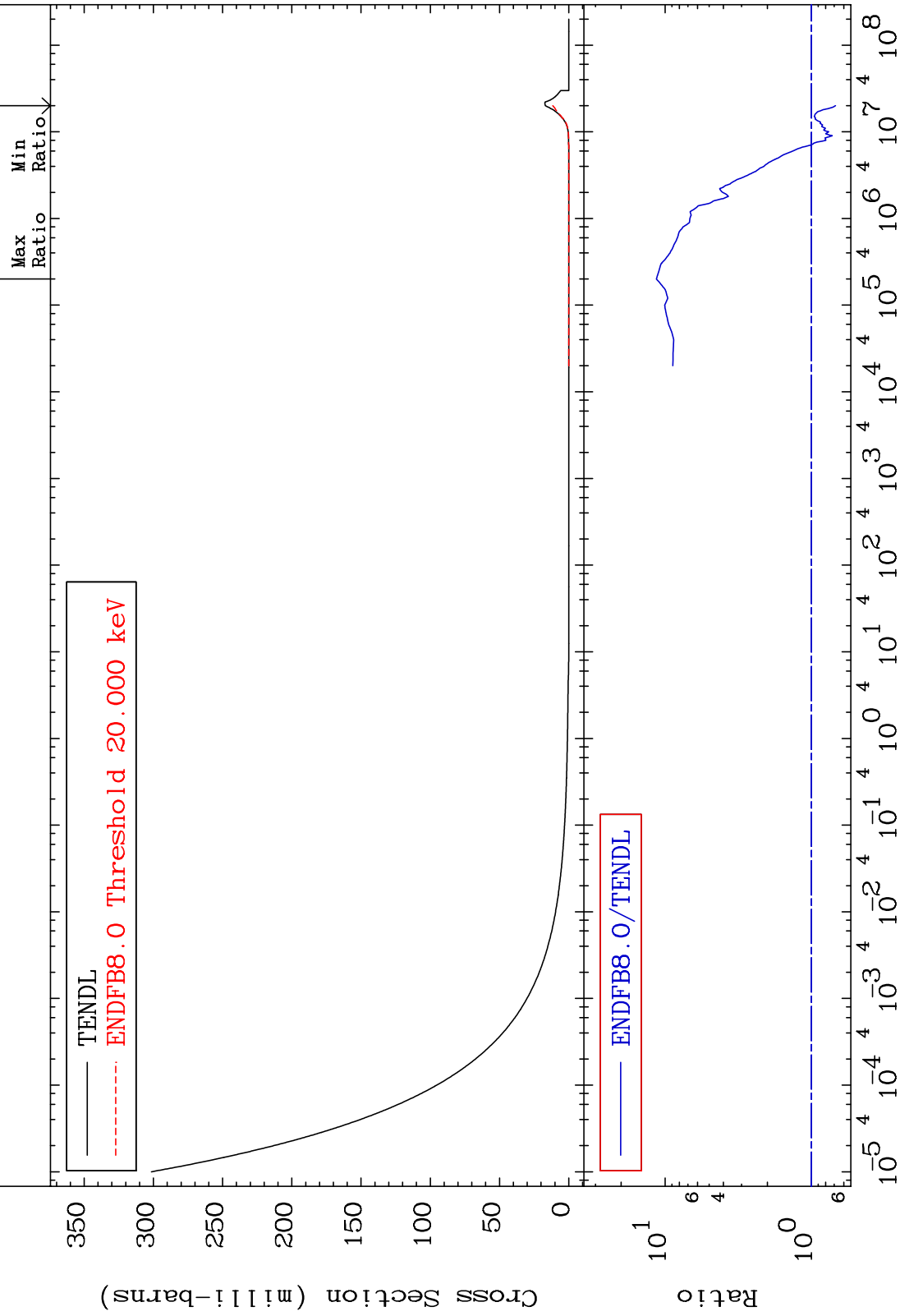
MAT 6631

(n,  $\alpha$ )

66-Dy-158

Cross Section

-31.60 To 1047. %



36

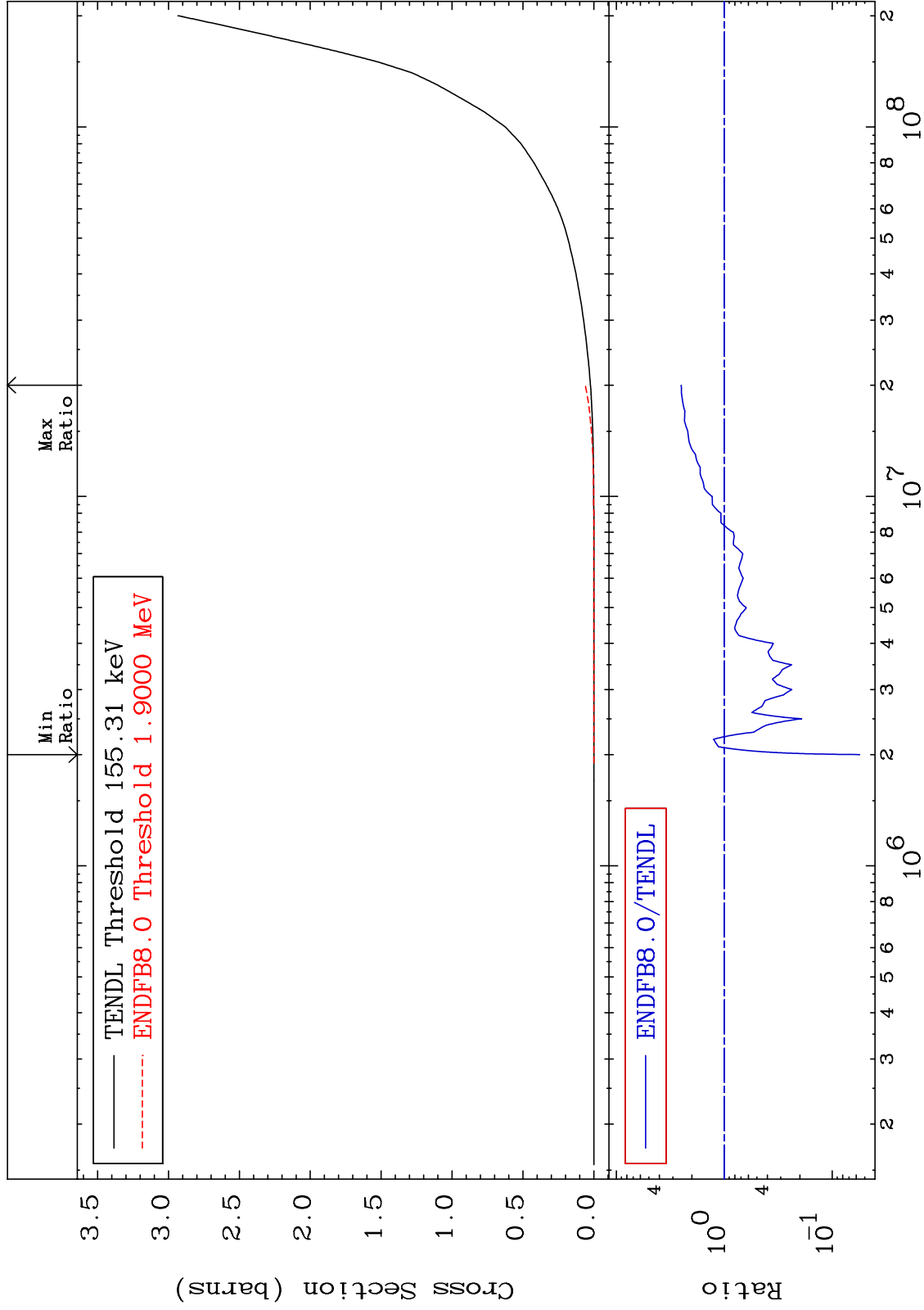
Incident Energy (eV)

66-Dy-158

MAT 6631

Hydrogen Production  
Cross Section

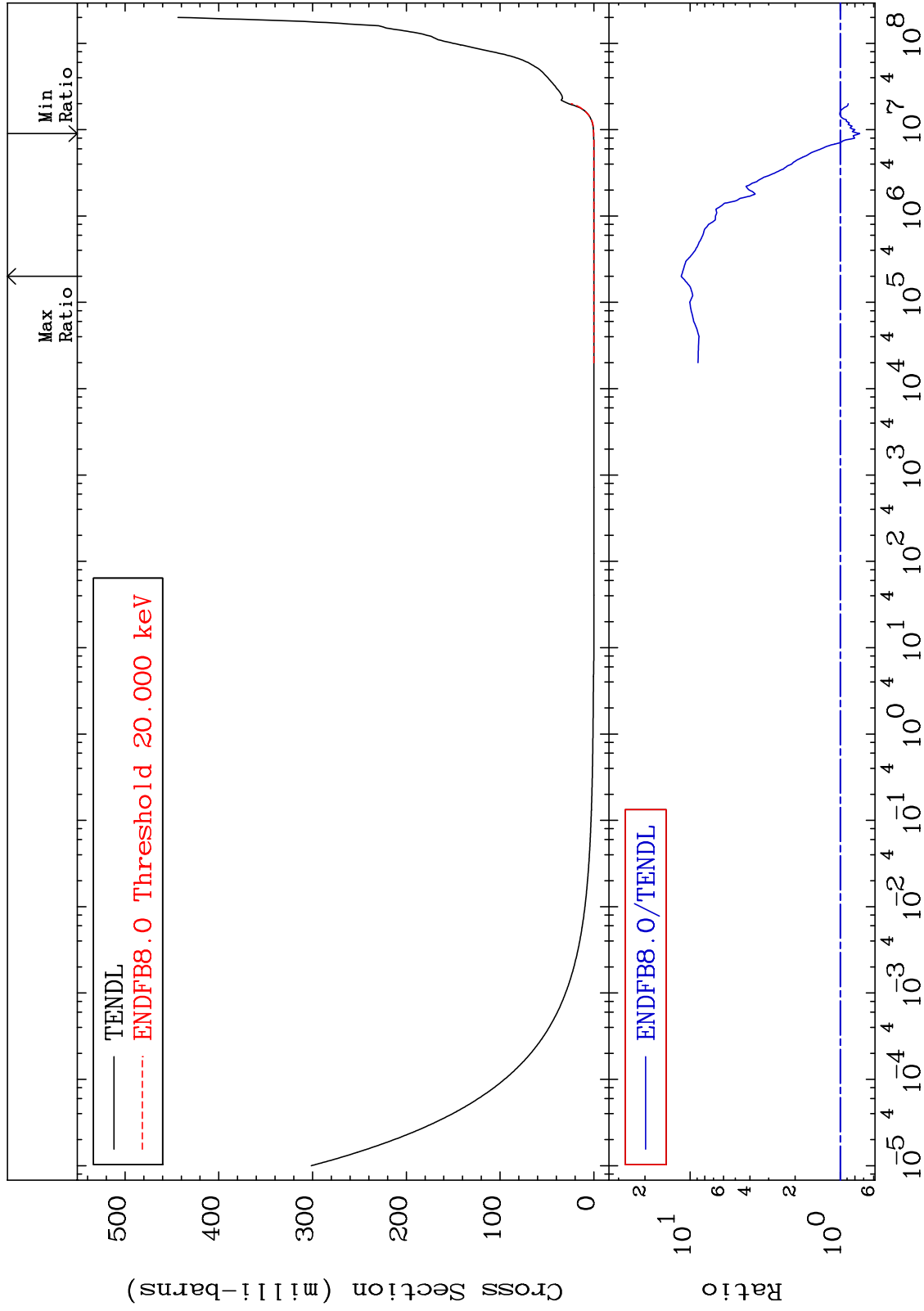
66-Dy-158  
-94.43 To 150.8 %



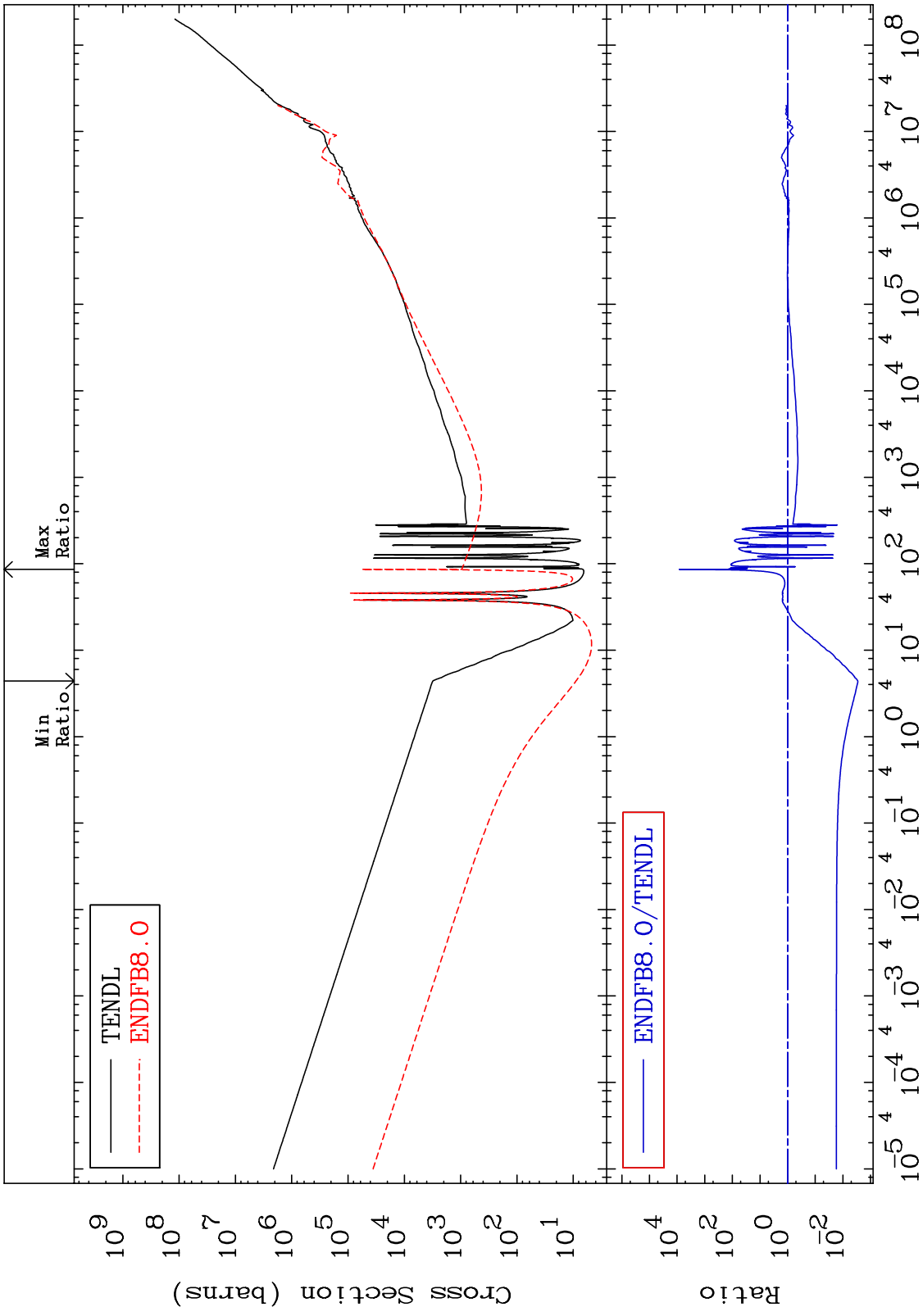
MAT 6631

He-4 Production  
Cross Section

66-Dy-158  
-25.82 To 1047. %



MAT 6631      Kerma total (eV-barns)      66-Dy-158  
 Cross Section      -99.71 To 9999. %

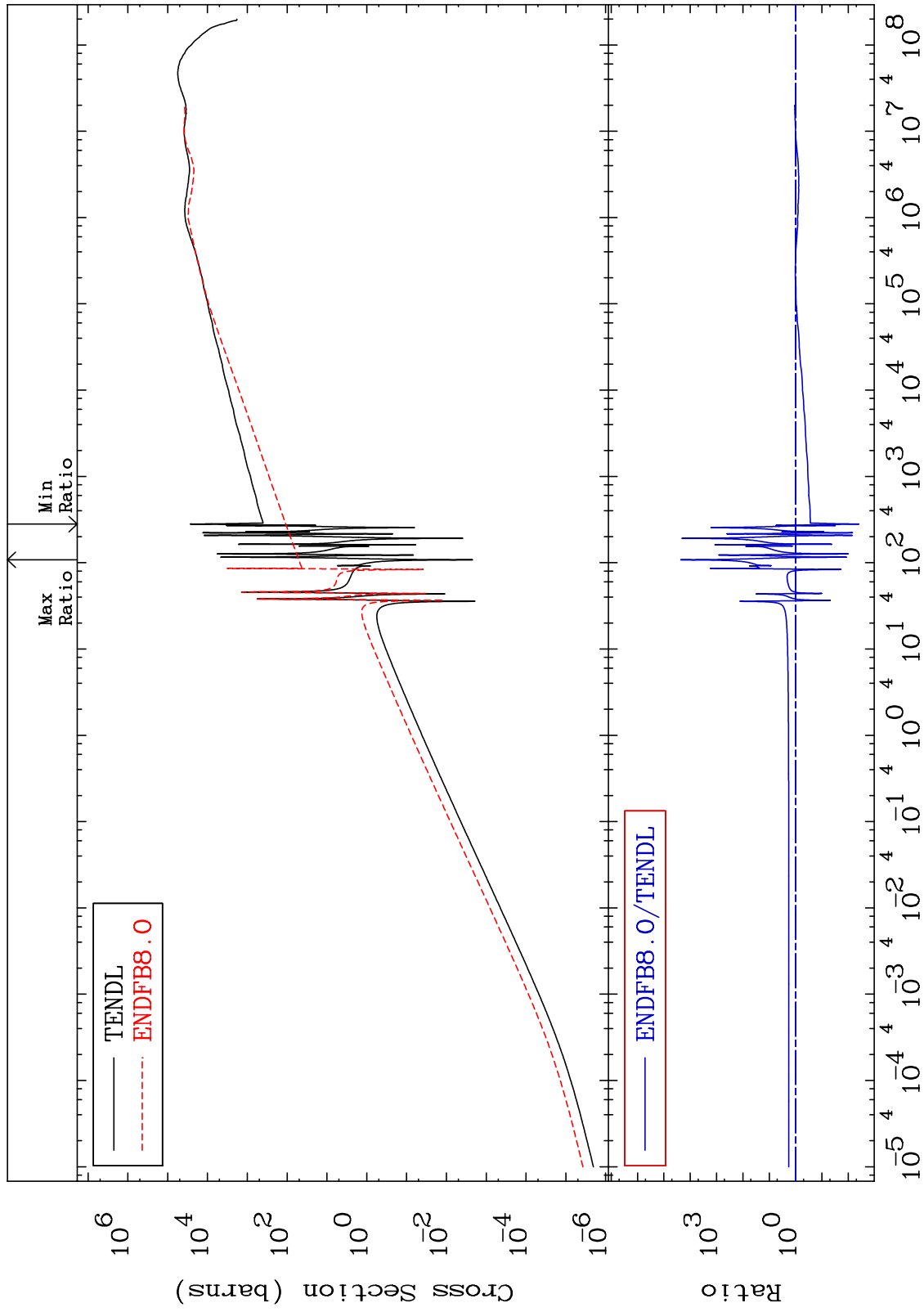




MAT 6631

Kerma elastic  
Cross Section

66-Dy-158  
-99.61 To 9999. %

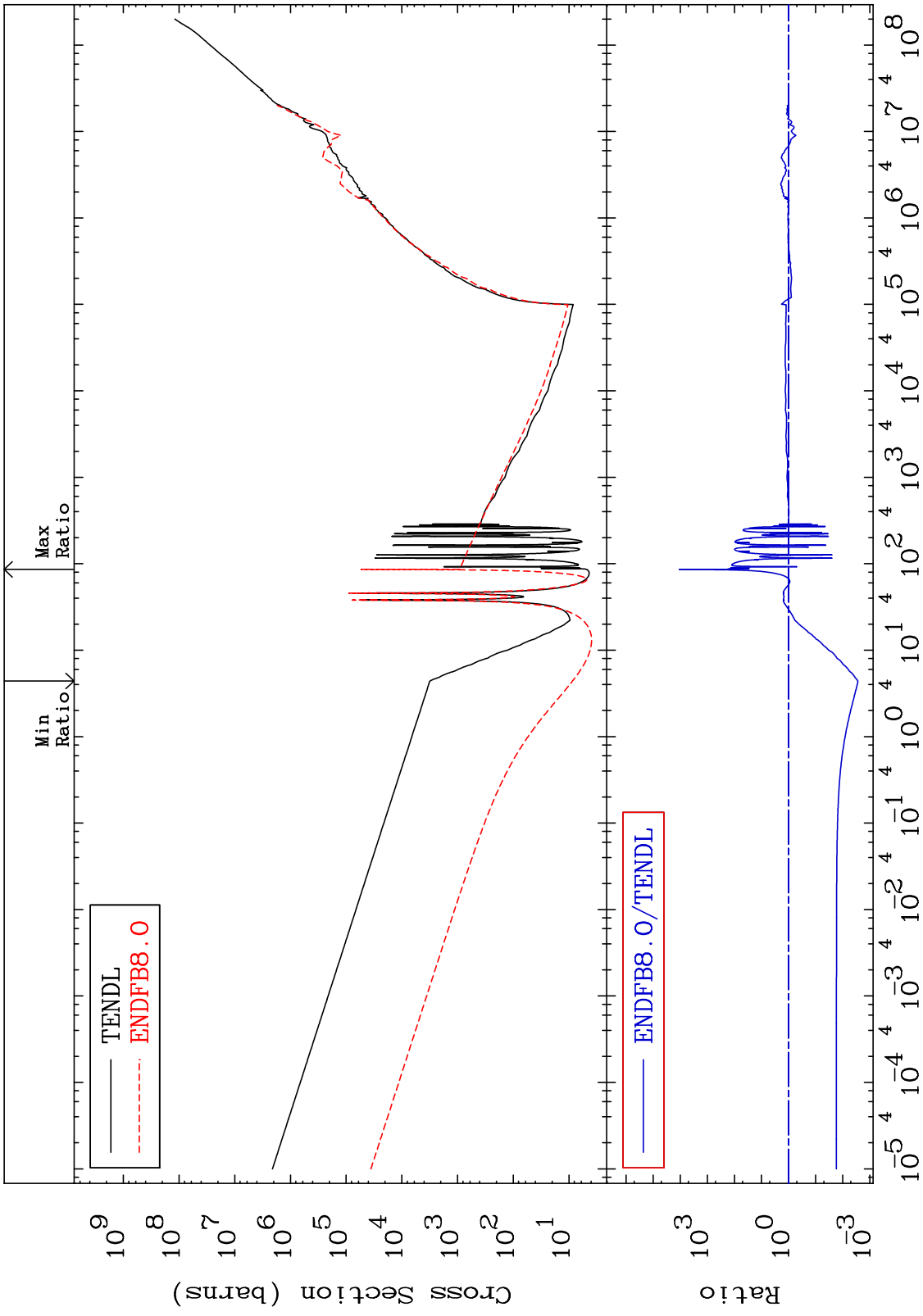


40

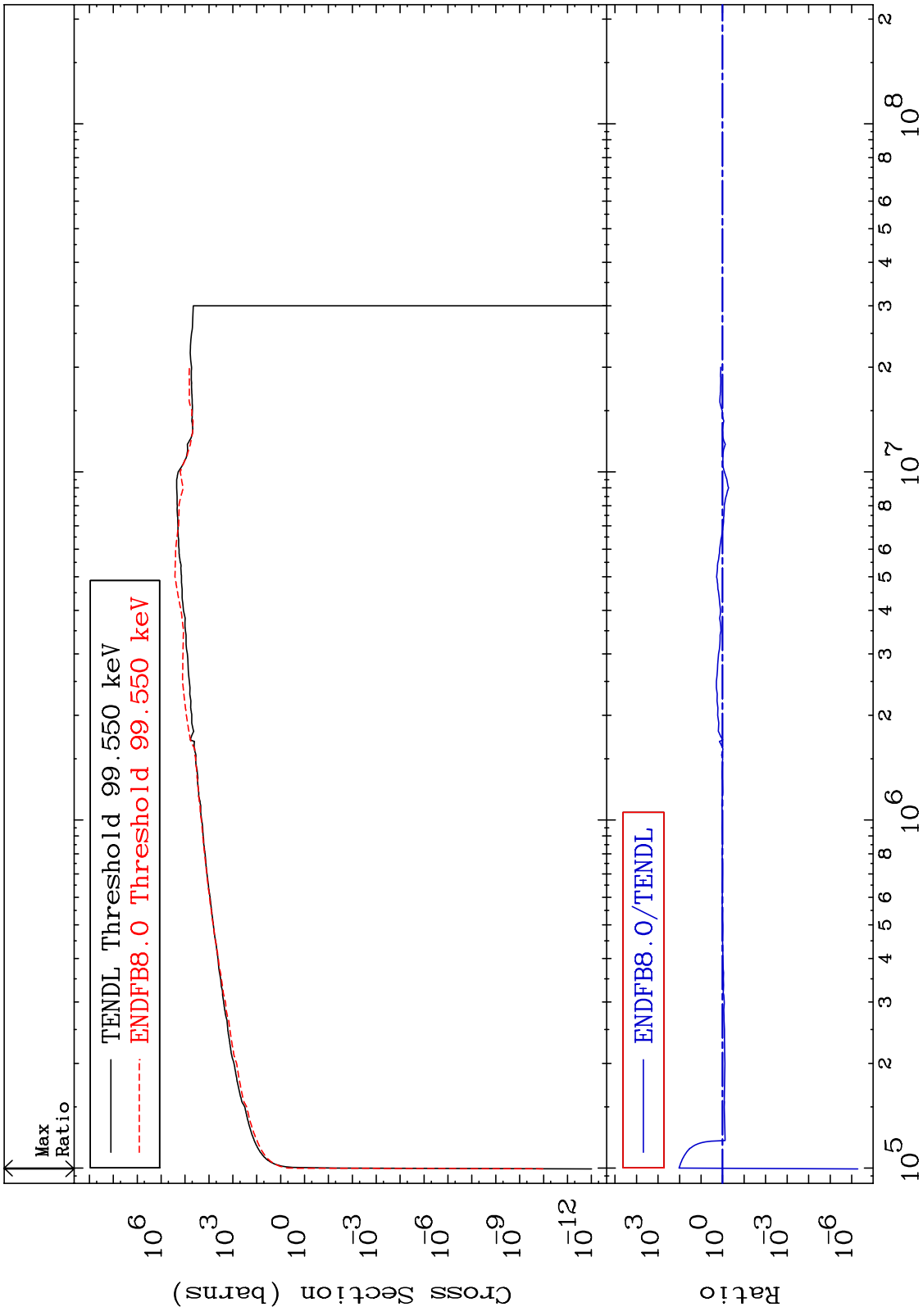
Incident Energy (eV)

66-Dy-158

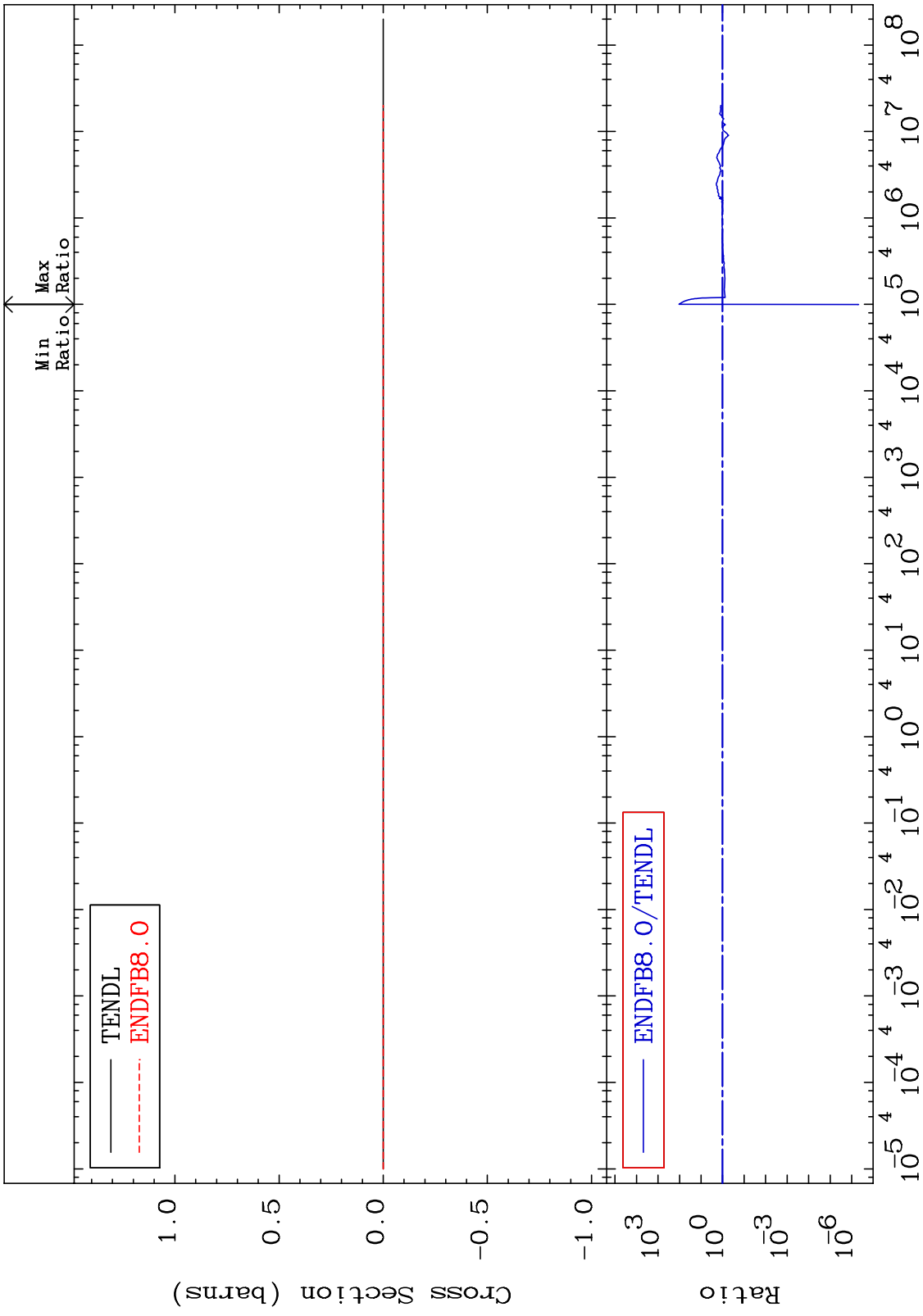
MAT 6631      Kerma non-elastic (all but mt2)      66-Dy-158  
 -99.72 To 9999. %  
 Cross Section



MAT 6631 Kerma inelastic (mt51-91) 66-Dy-158  
Cross Section -100.0 To 9999. %



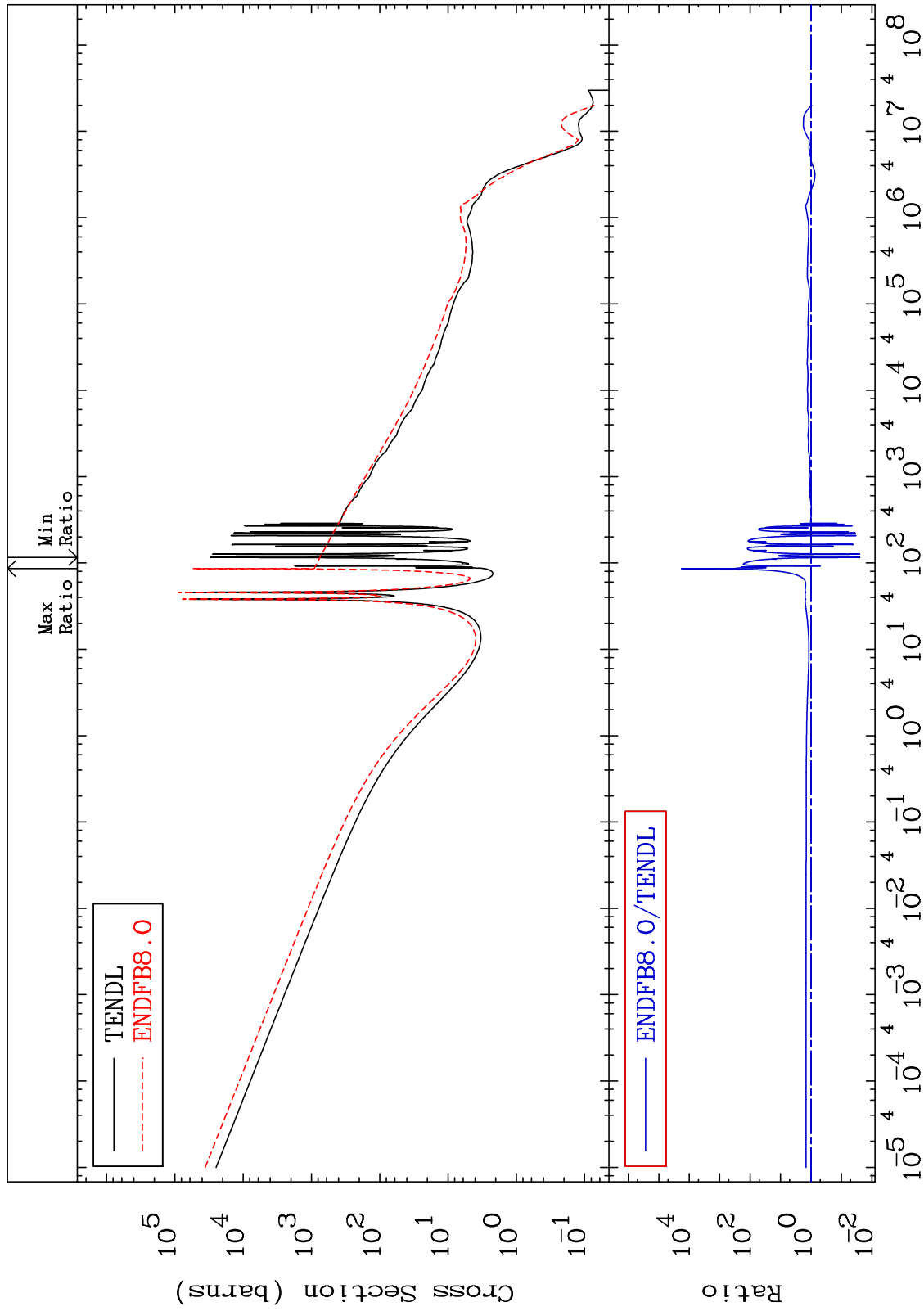
MAT 6631 Kerma fission (mt18 or mt19-20-21-38) 66-Dy-158  
 Cross Section -100.0 To 9999. %



MAT 6631

Kerma capture (mt102)  
Cross Section

66-Dy-158  
-97.50 To 9999. %



44

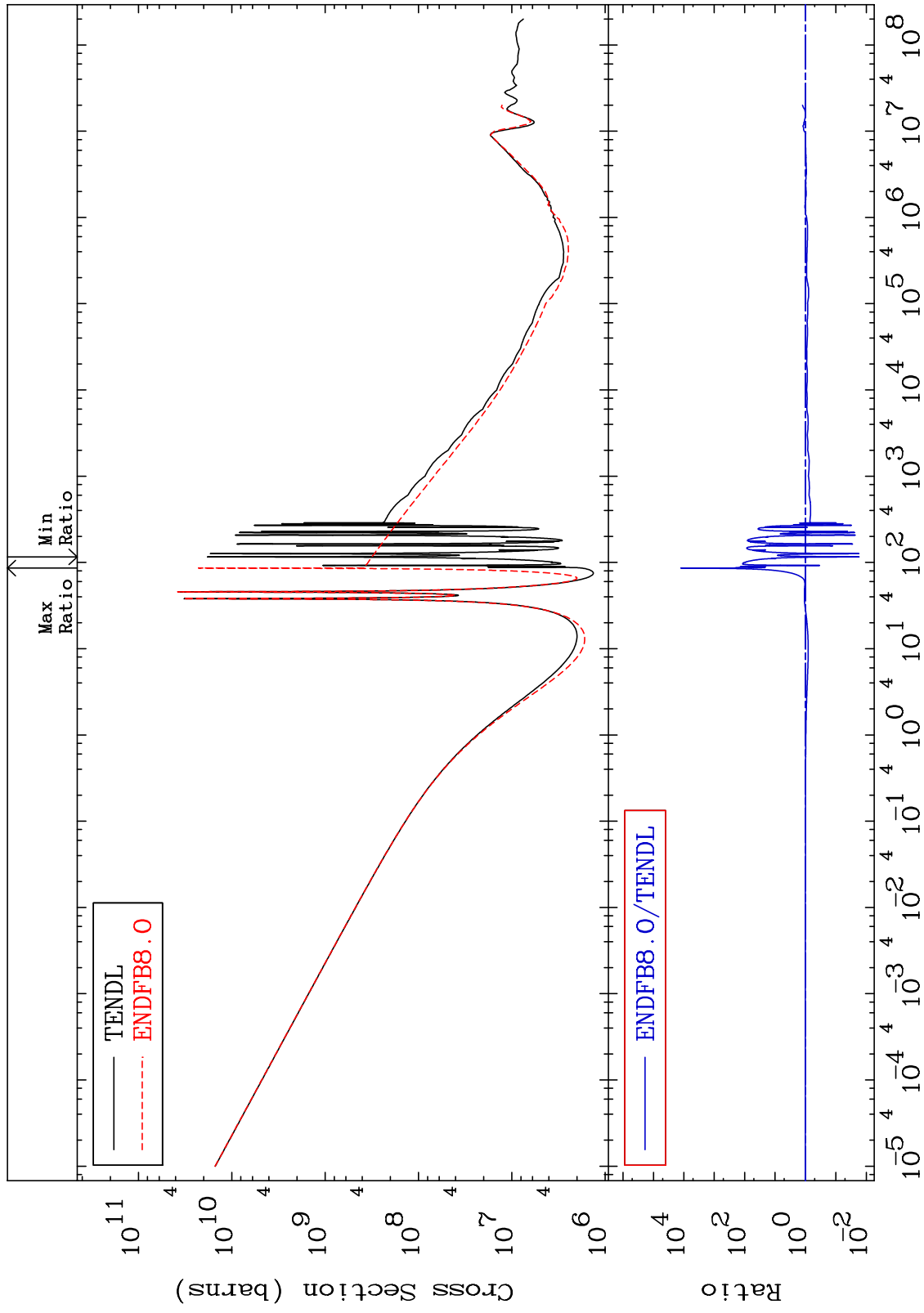
Incident Energy (eV)

66-Dy-158

MAT 6631

Total photon (eV-barns)  
Cross Section

66-Dy-158  
-98.27 To 9999. %

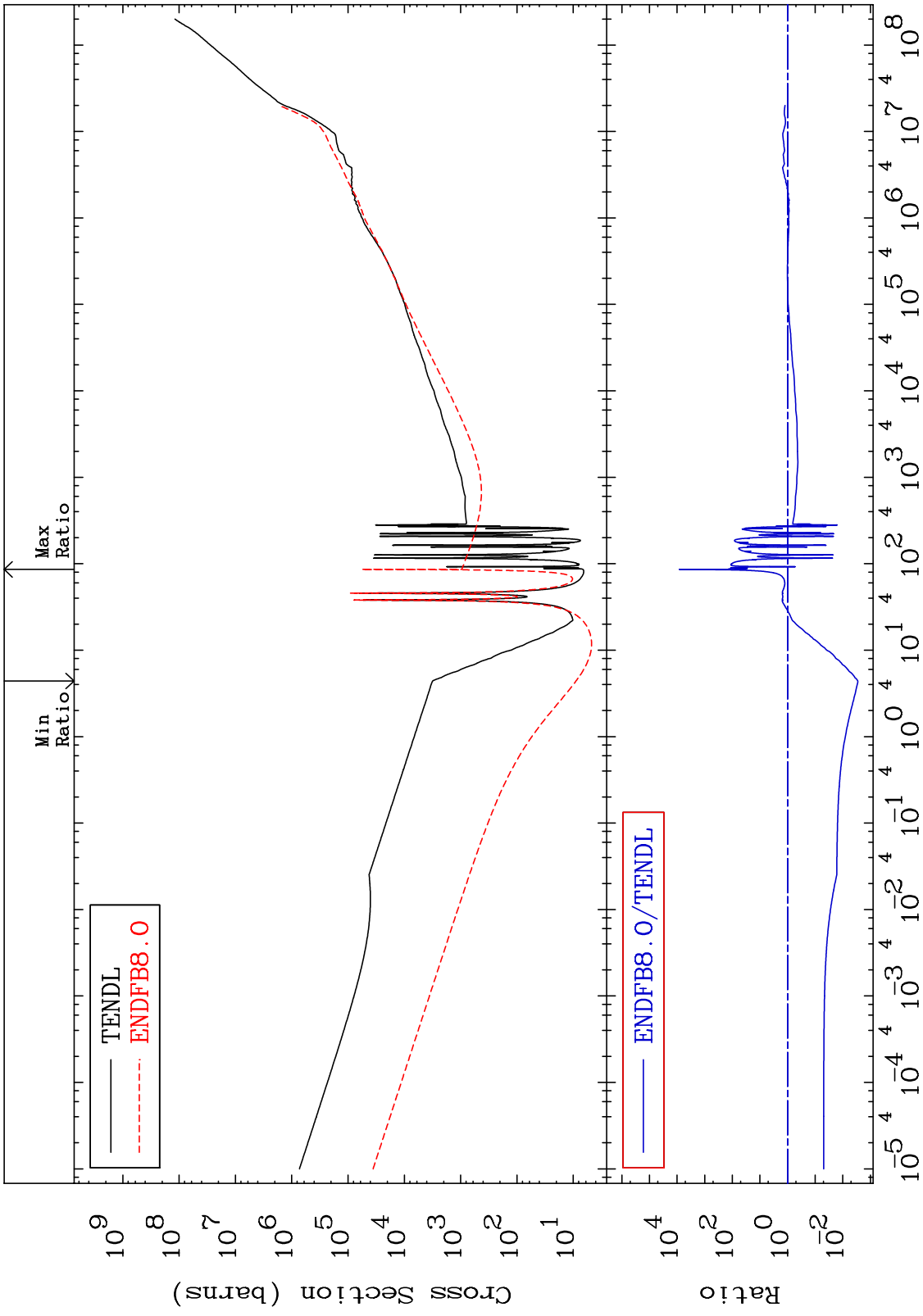


45

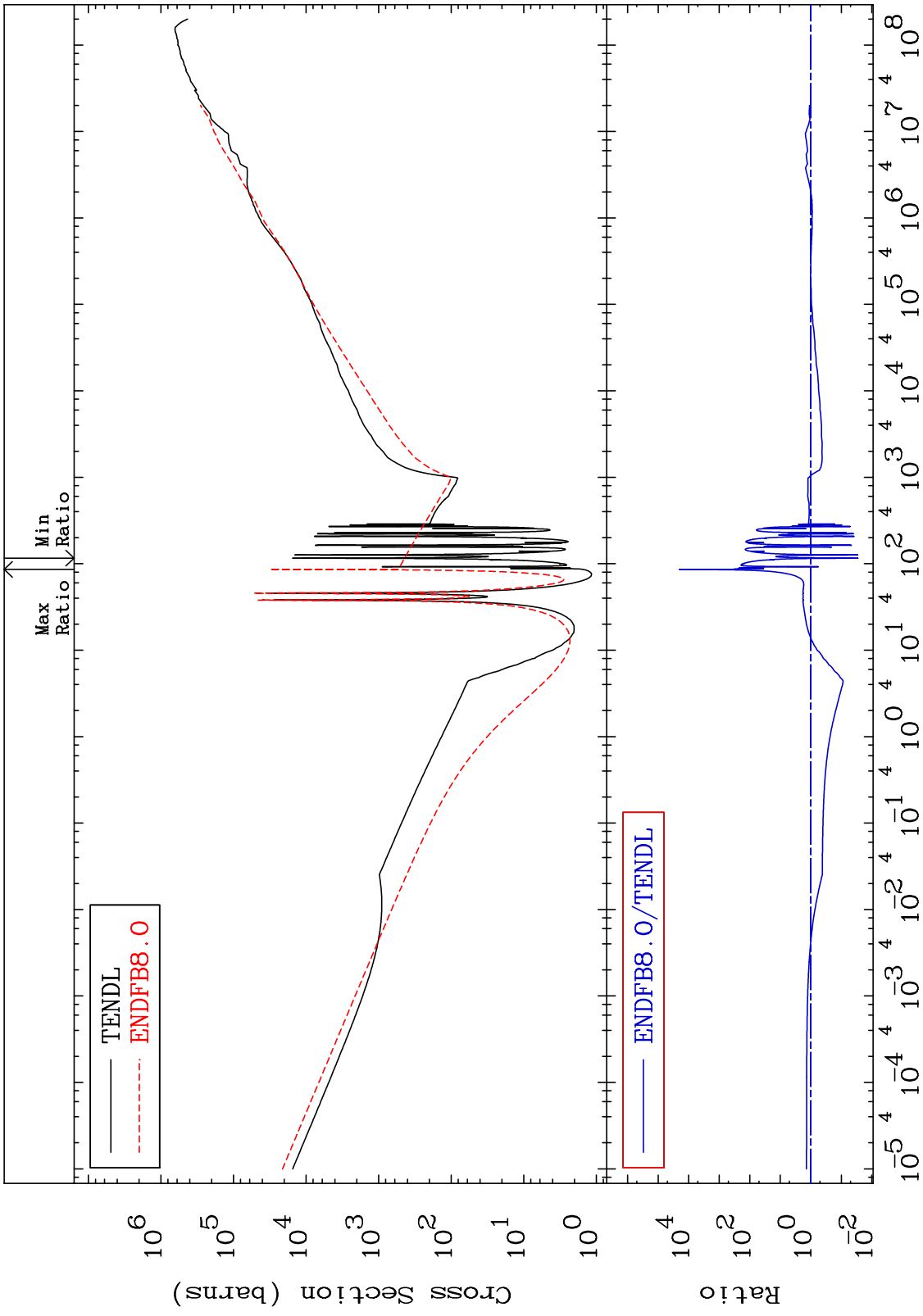
Incident Energy (eV)

66-Dy-158

MAT 6631 Total kinematic kerma (high limit) 66-Dy-158  
 Cross Section -99.72 To 9999. %

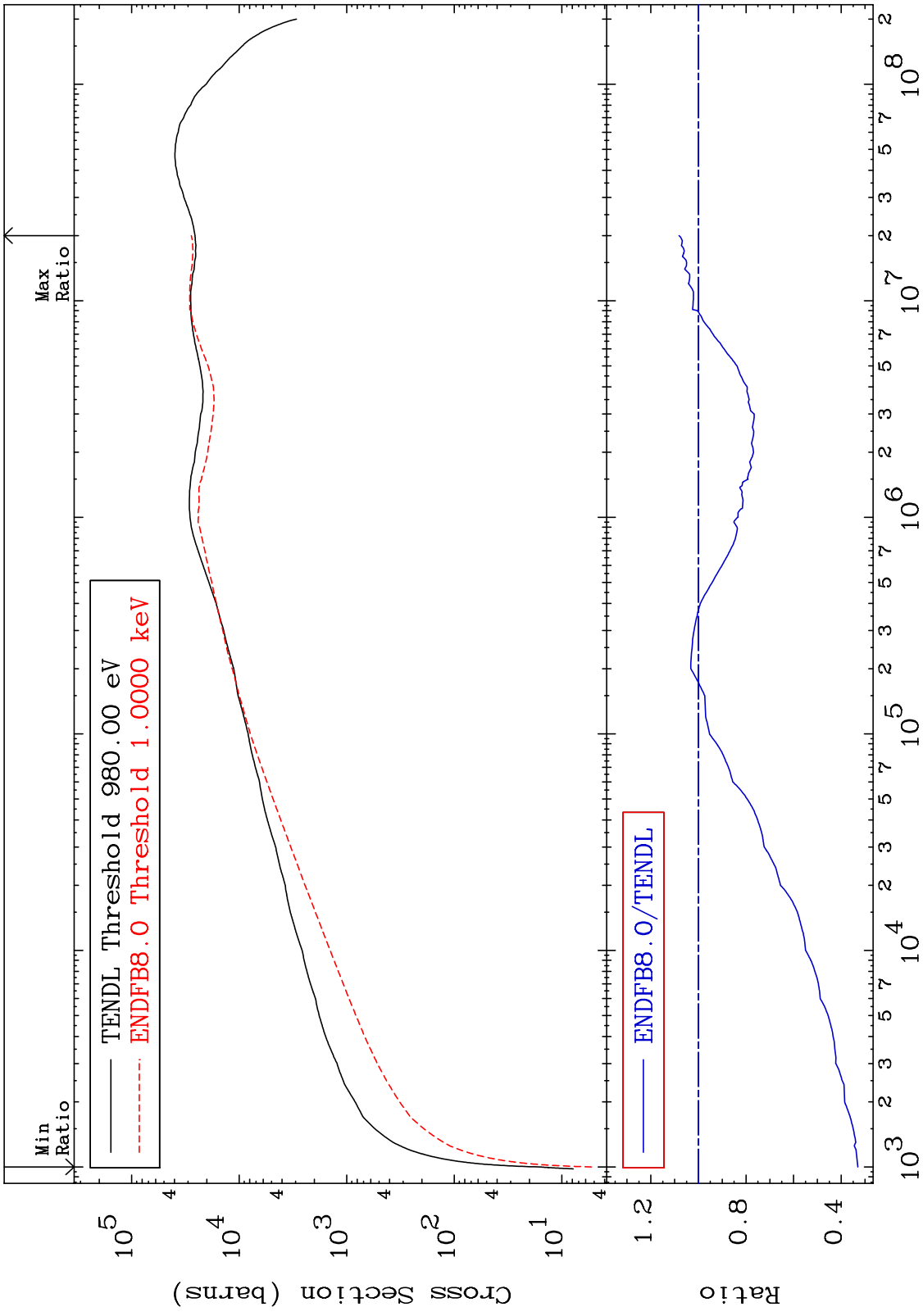


MAT 6631      Dpa total (eV-barns)      66-Dy-158  
 Cross Section      -97.12 To 9999. %

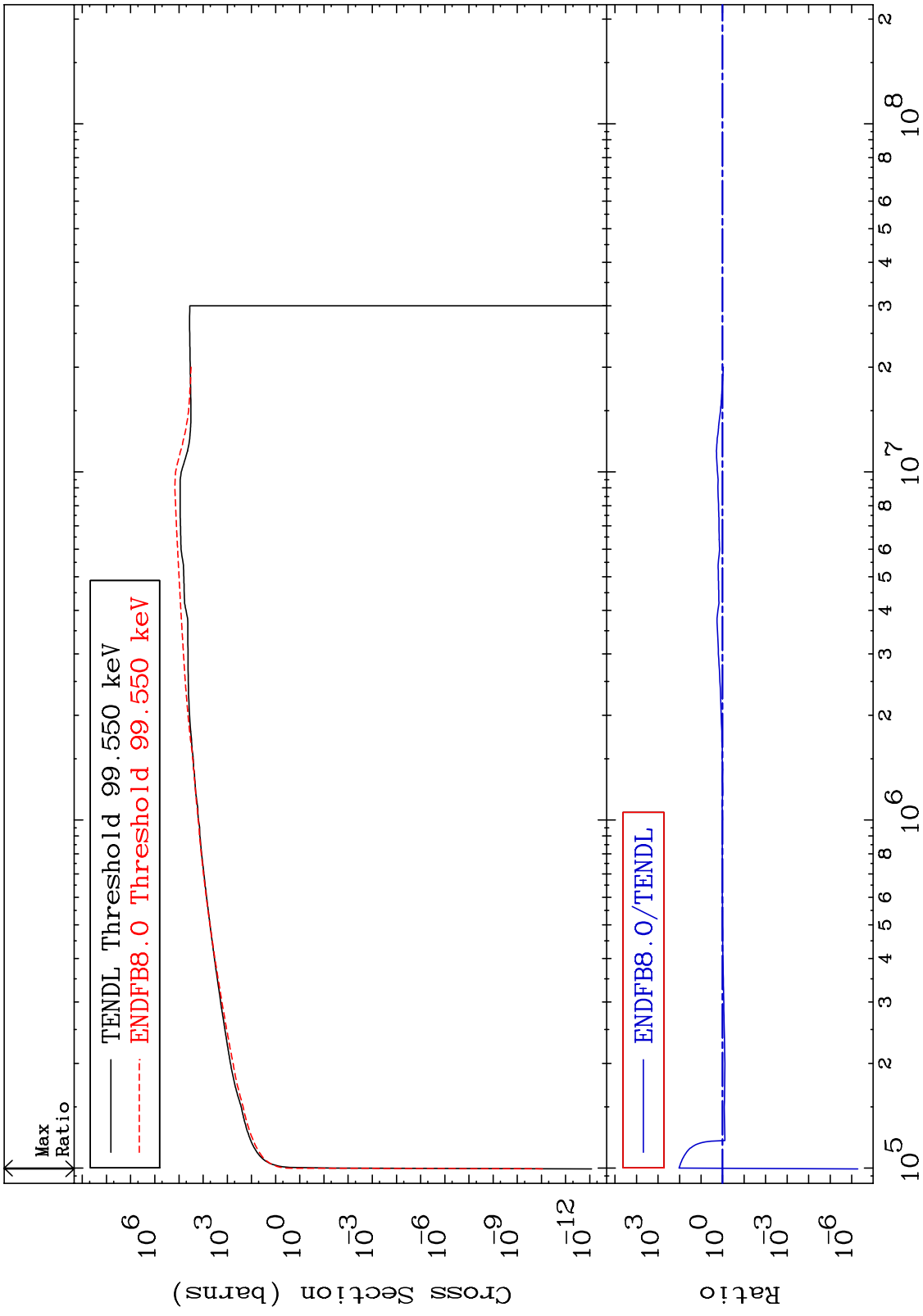




MAT 6631 Dpa elastic (mt2) Cross Section 66-Dy-158  
 -66.99 To 8.145 %



MAT 6631      Dpa inelastic (mt51-91)      66-Dy-158  
Cross Section      -100.0 To 9999. %



49      Incident Energy (eV)      66-Dy-158

MAT 6631

Dpa disappearance (mt102 -120)  
Cross Section

66-Dy-158  
-97.12 To 9999. %

