

Program Complot  
(Version 2018-1)

by

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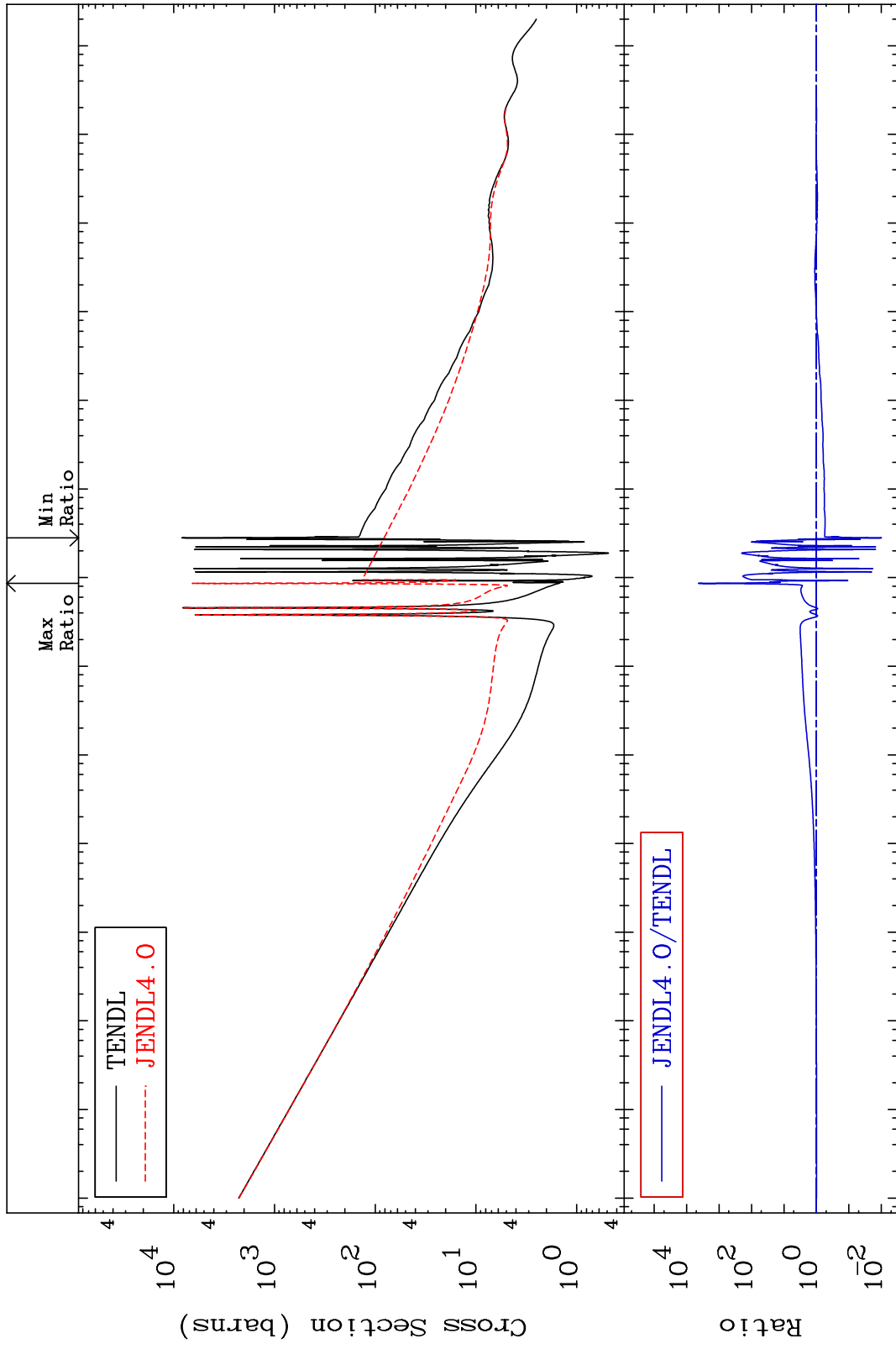
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6631

Total  
Cross Section

66-Dy-158  
-99.01 To 9999. %



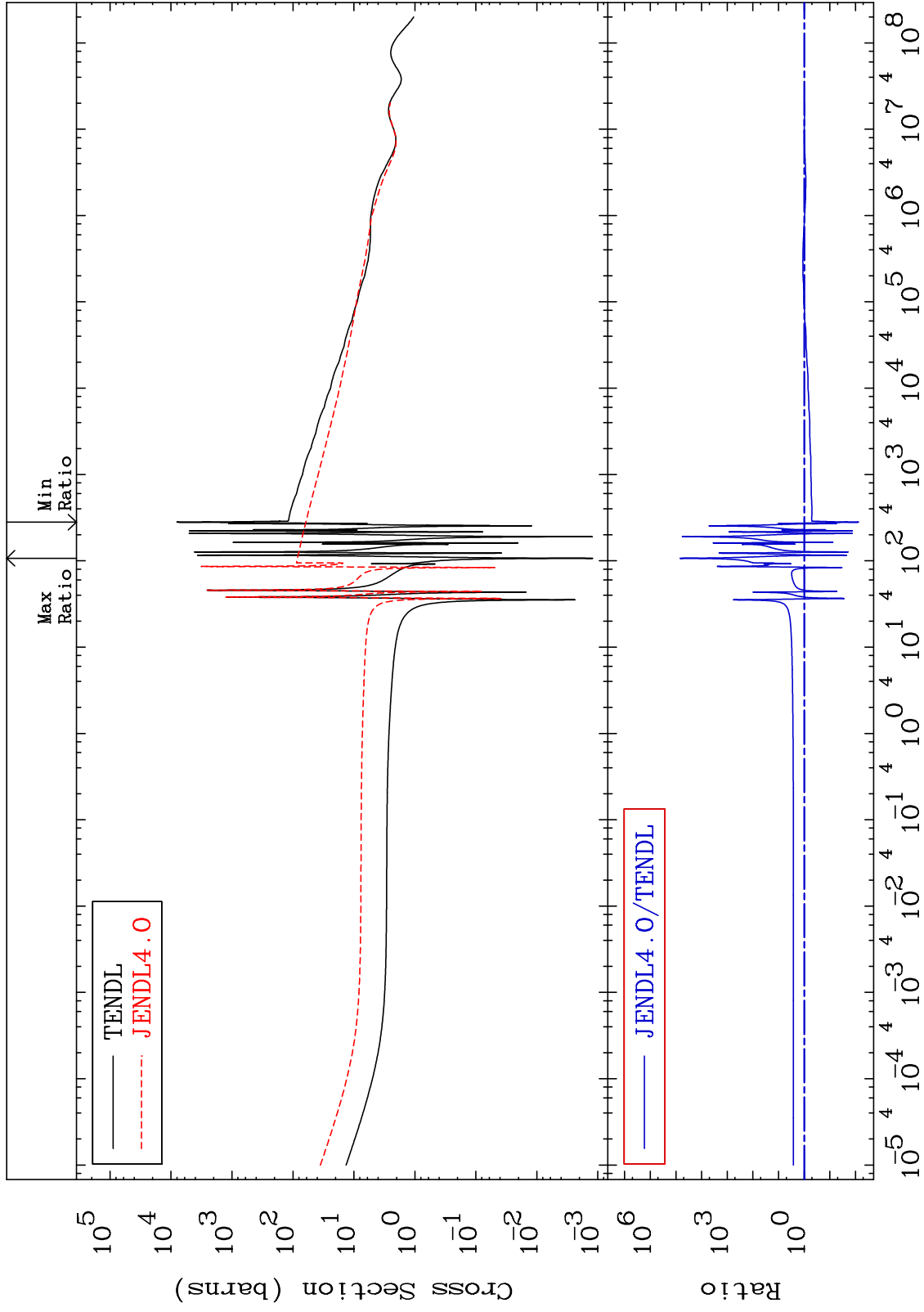
Incident Energy (eV)

66-Dy-158

MAT 6631

Elastic  
Cross Section

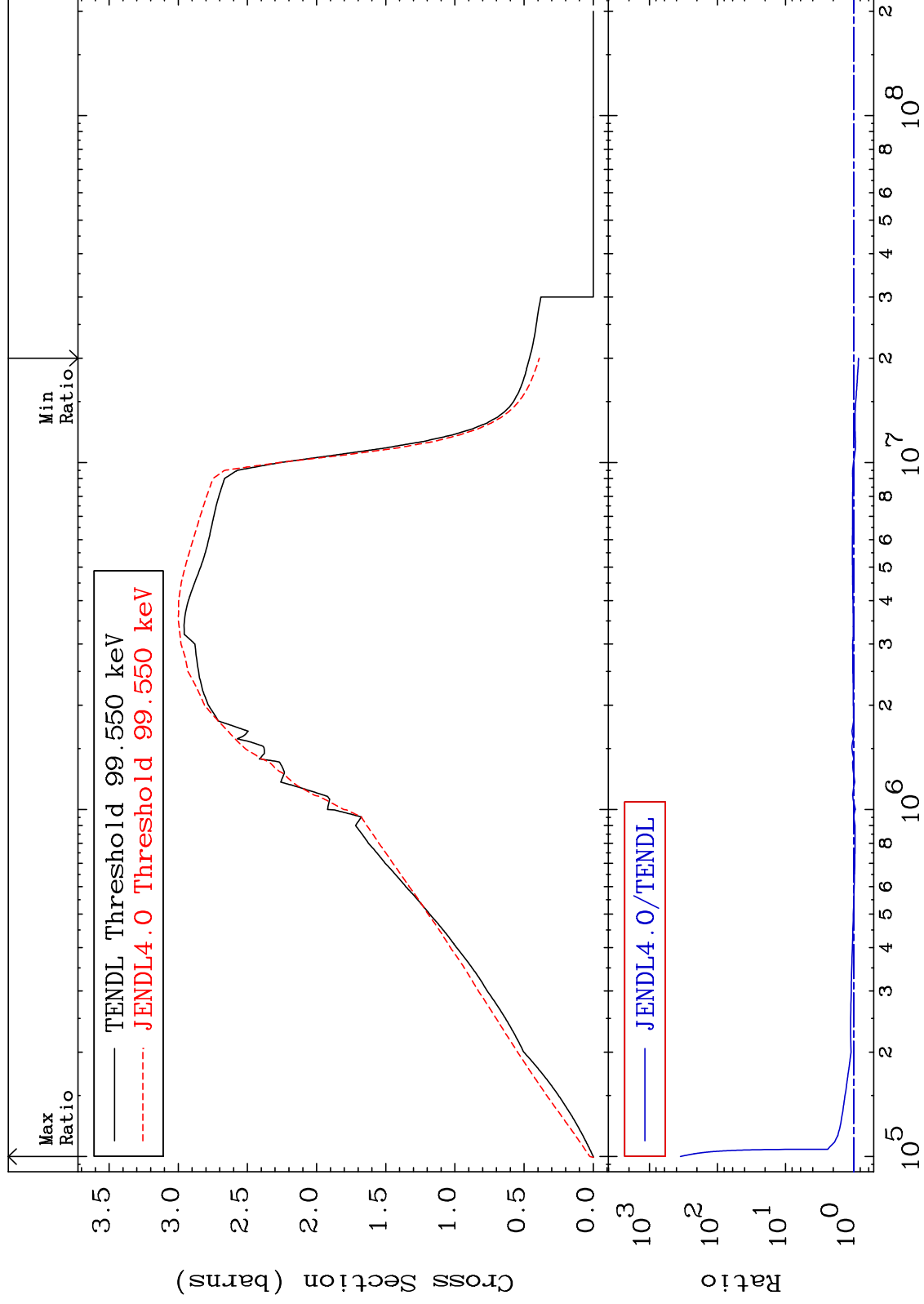
66-Dy-158  
-99.23 To 9999. %



MAT 6631

Inelastic  
Cross Section

66-Dy-158  
-15.22 To 9999. %



Incident Energy (eV)

66-Dy-158

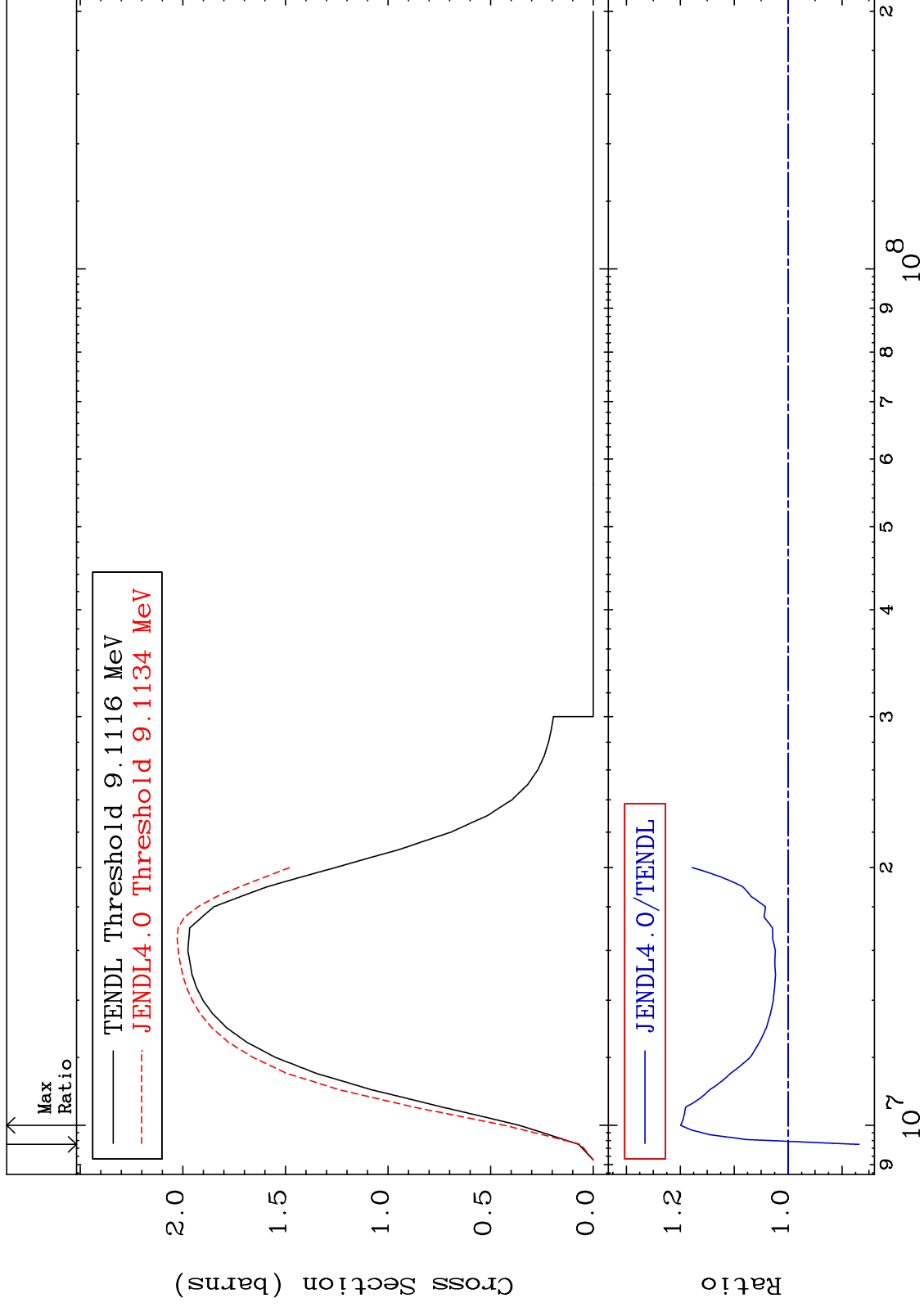
MAT 6631

(n, 2n)

66-Dy-158

Cross Section

-13.17 To 19.93 %



66-Dy-158

Incident Energy (eV)

4

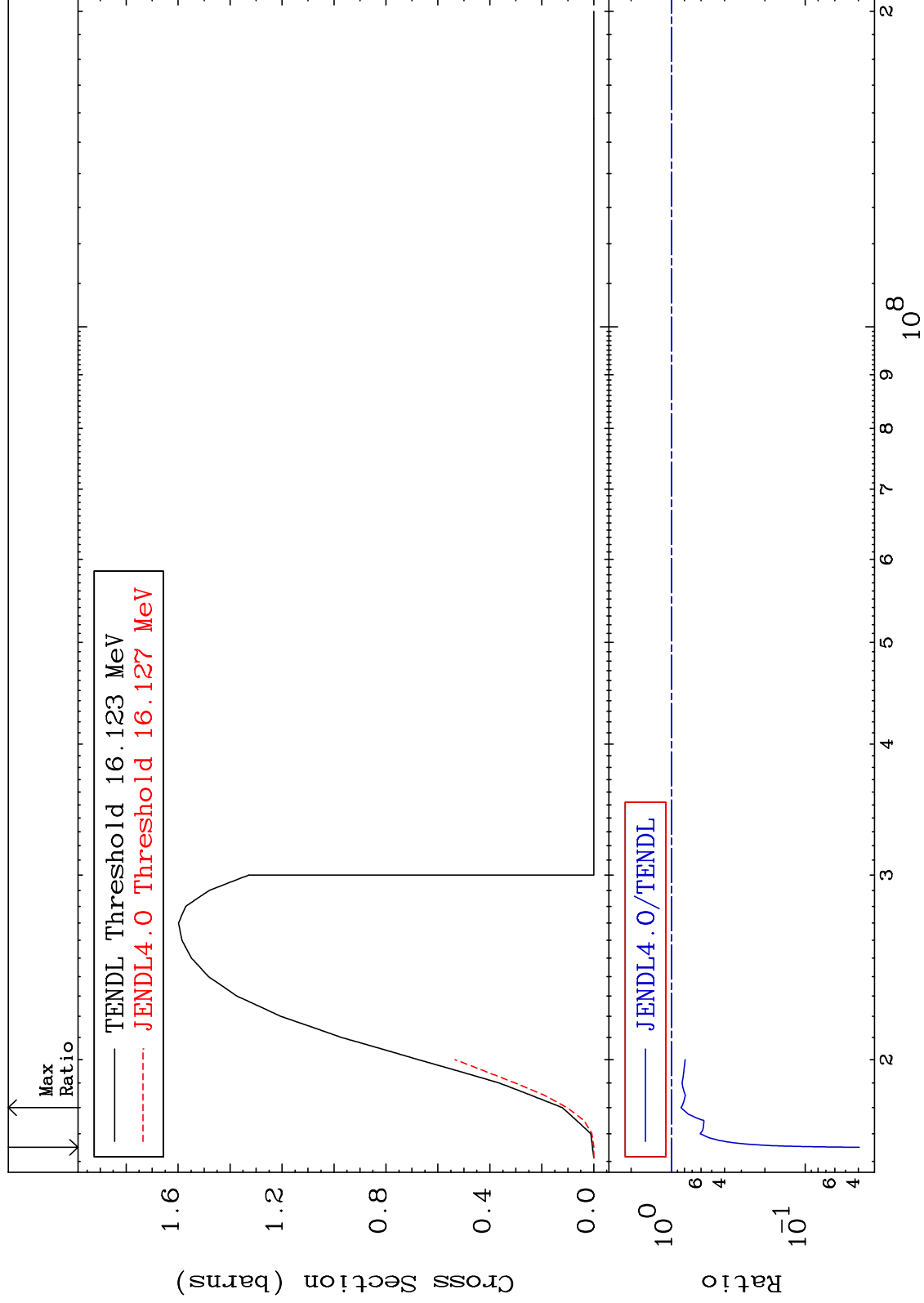
MAT 6631

(n, 3n)

66-Dy-158

Cross Section

-96.06 To -15.30%



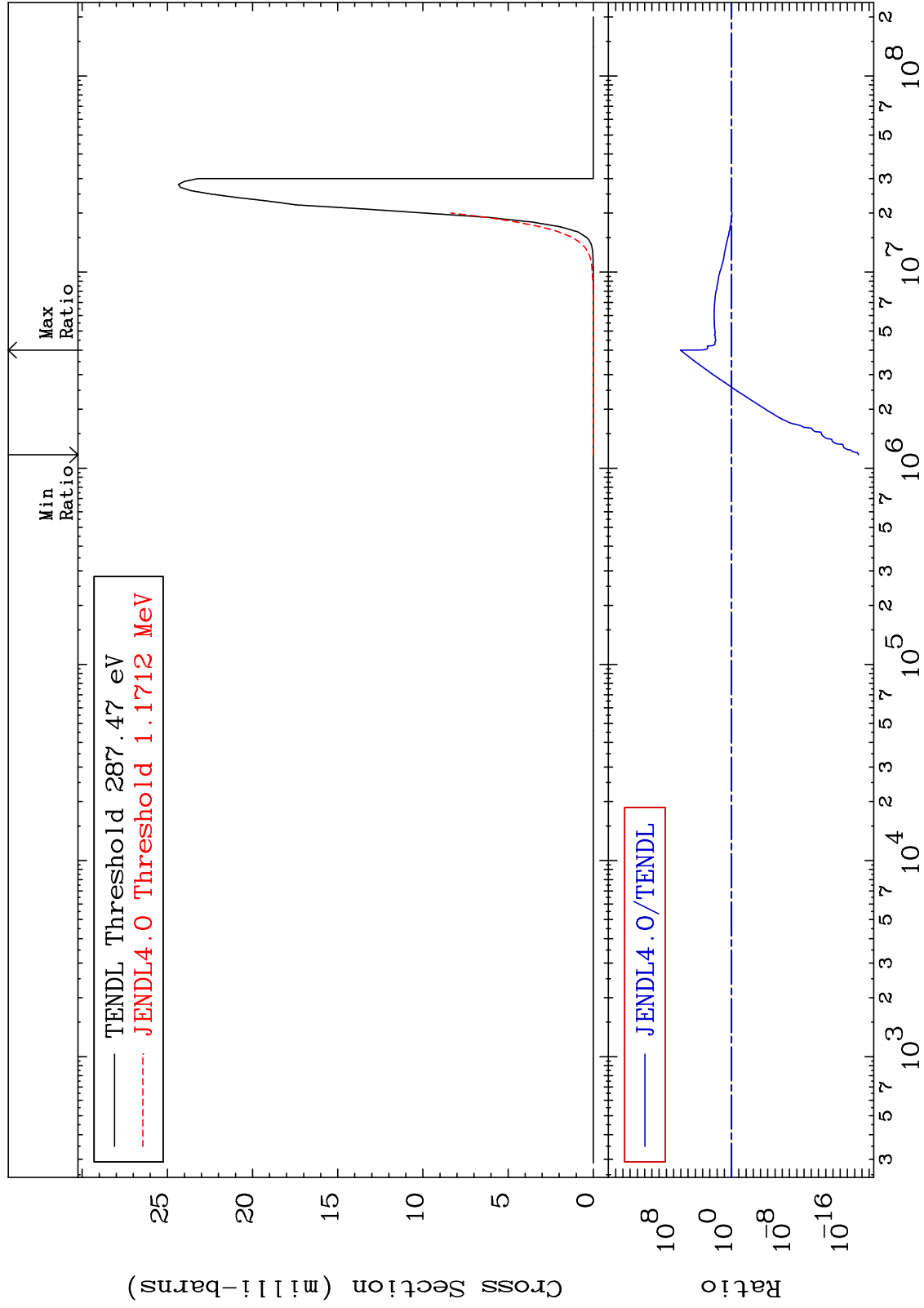
MAT 6631

(n, n')  $\alpha$

66-Dy-158

Cross Section

-100.0 To 9999. %



6

Incident Energy (eV)

66-Dy-158

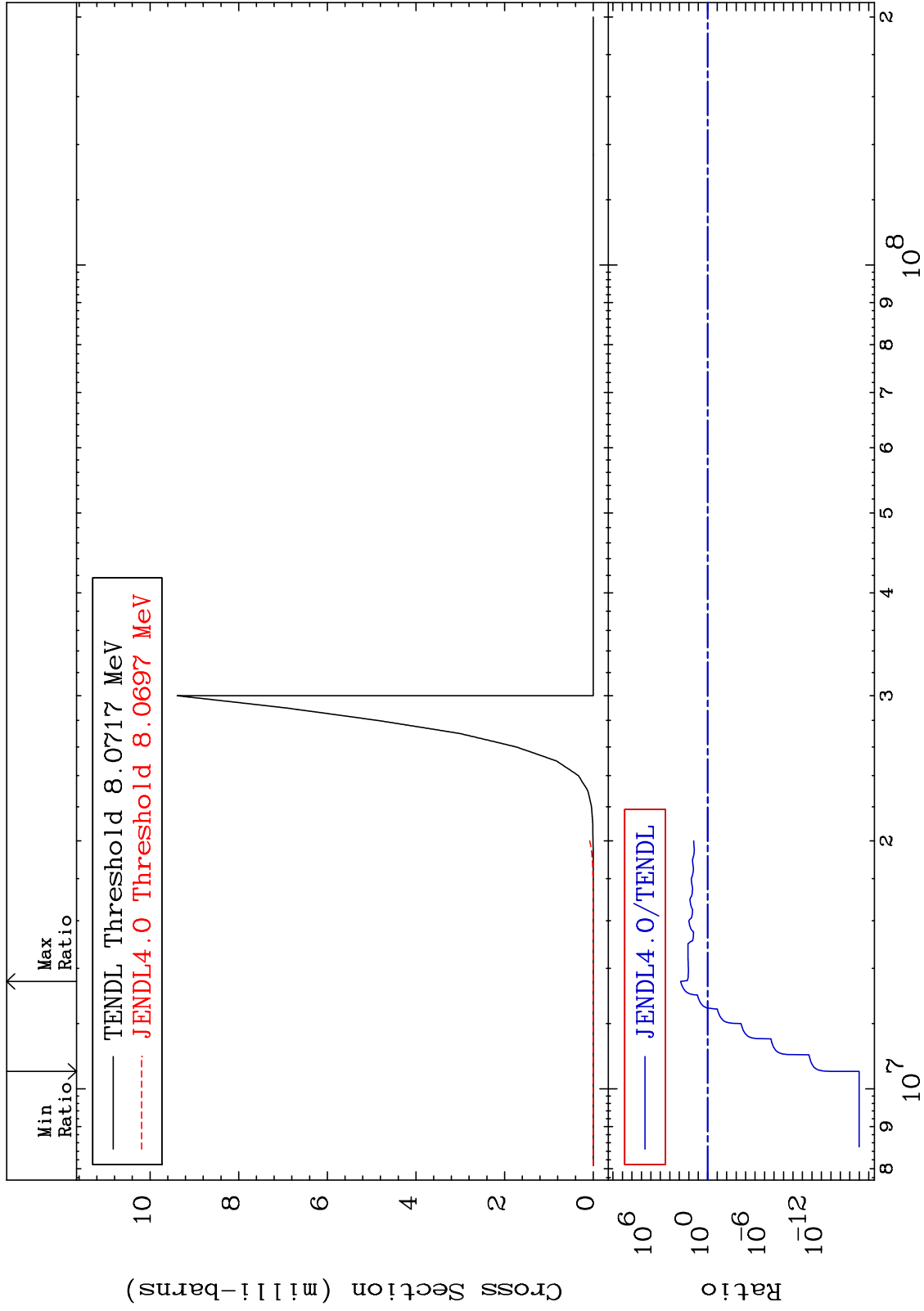
MAT 6631

(n,2n)  $\alpha$

66-Dy-158

Cross Section

-100.0 To 9999. %



7

Incident Energy (eV)

66-Dy-158



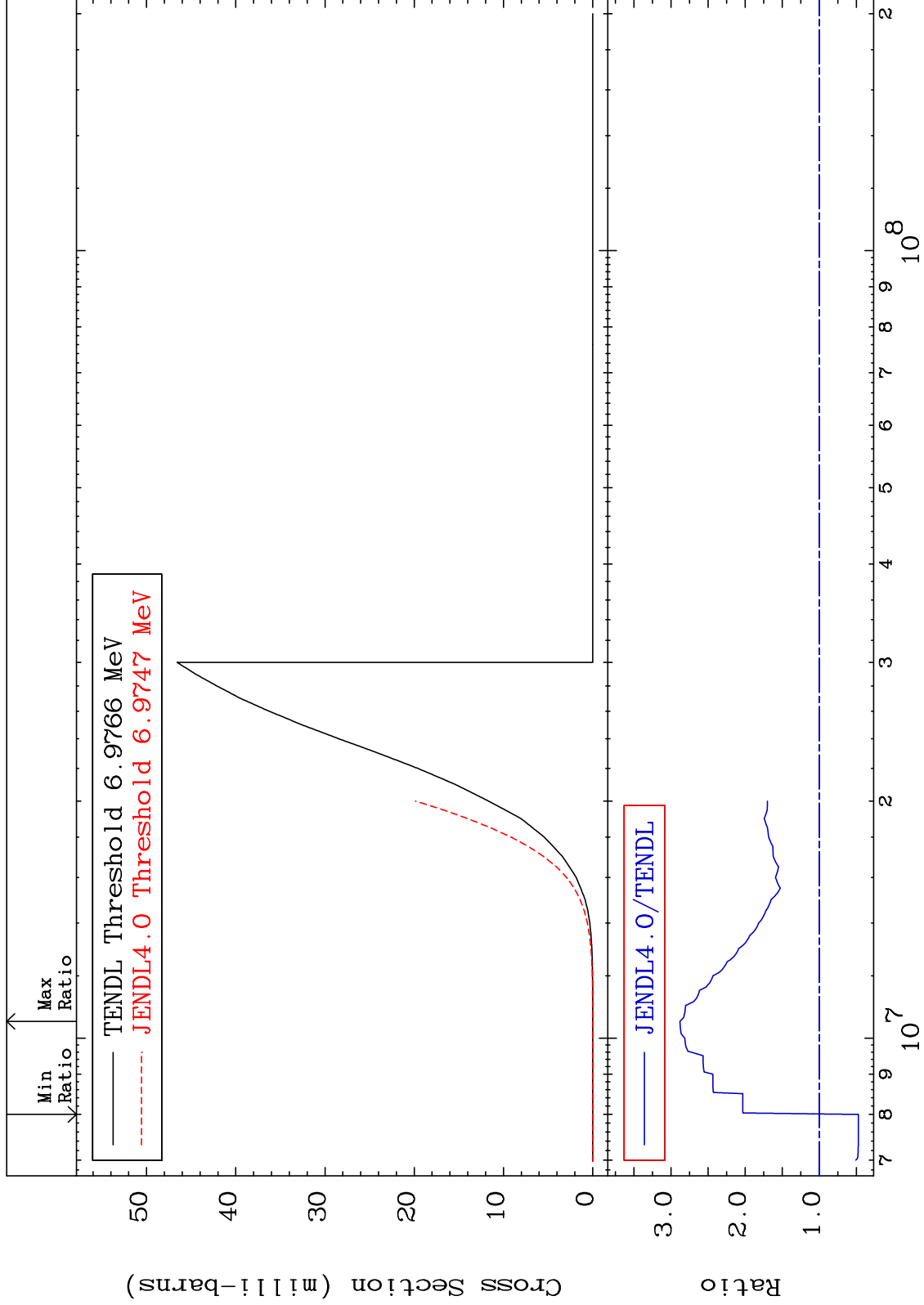
MAT 6631

(n,n') p

66-Dy-158

Cross Section

-52.67 To 187.9 %



8

Incident Energy (eV)

66-Dy-158

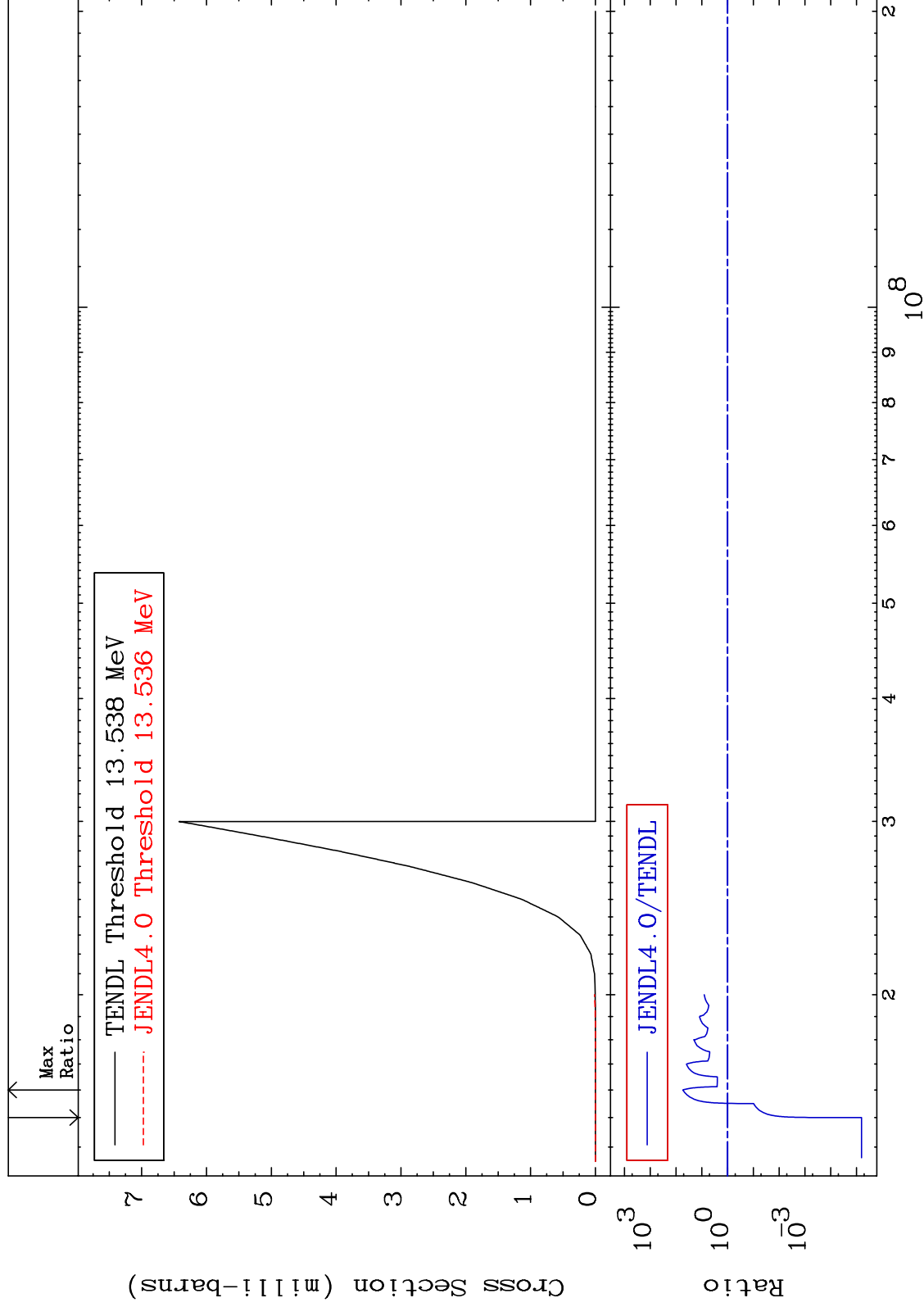
MAT 6631

(n, n') d

66-Dy-158

Cross Section

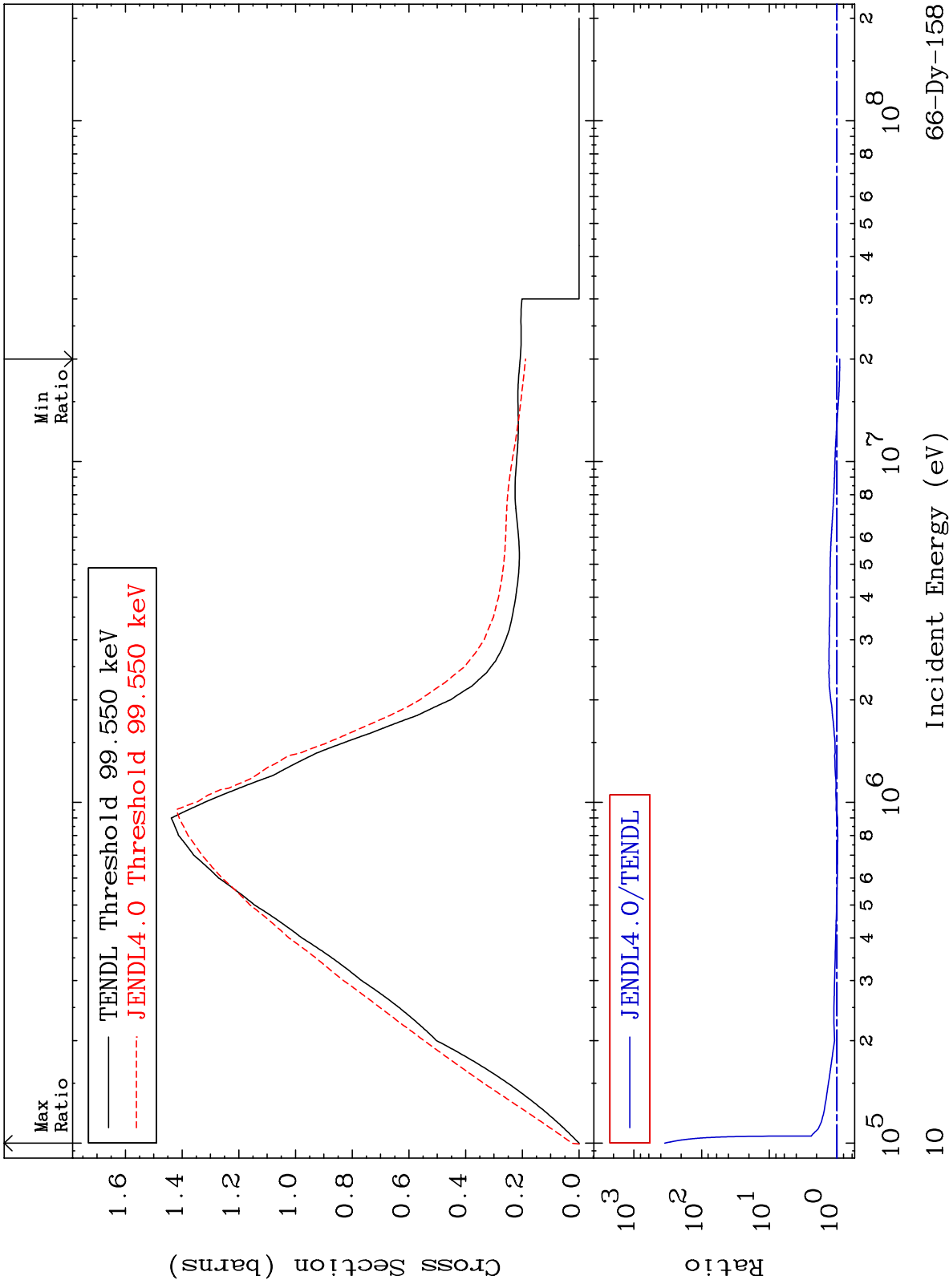
-100.0 To 5313. %



MAT 6631

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

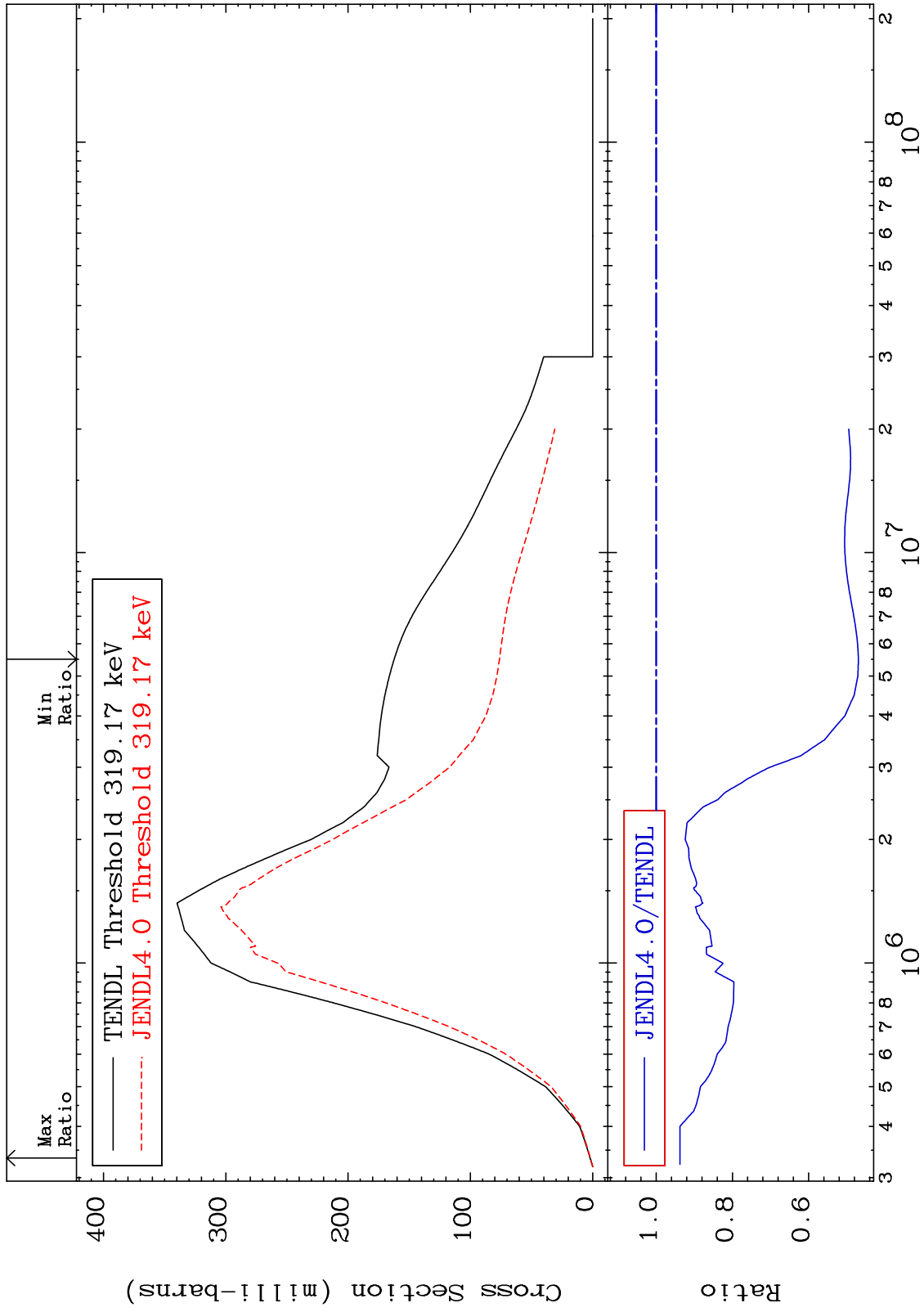
66-Dy-158  
-8.931 To 9999. %



MAT 6631

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

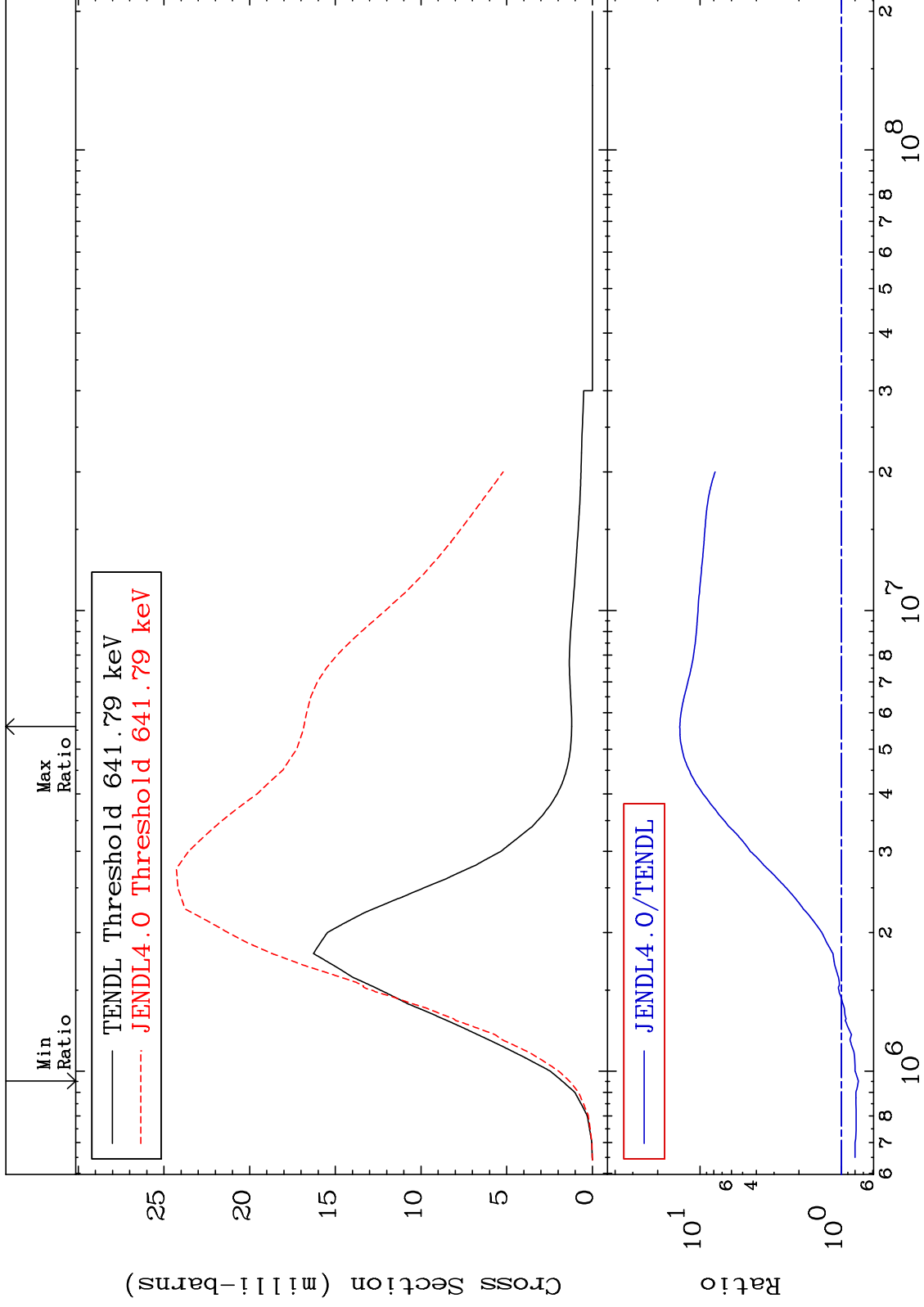
66-Dy-158  
-53.06 To -6.249%



MAT 6631

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

66-Dy-158  
-24.12 To 1293. %



12

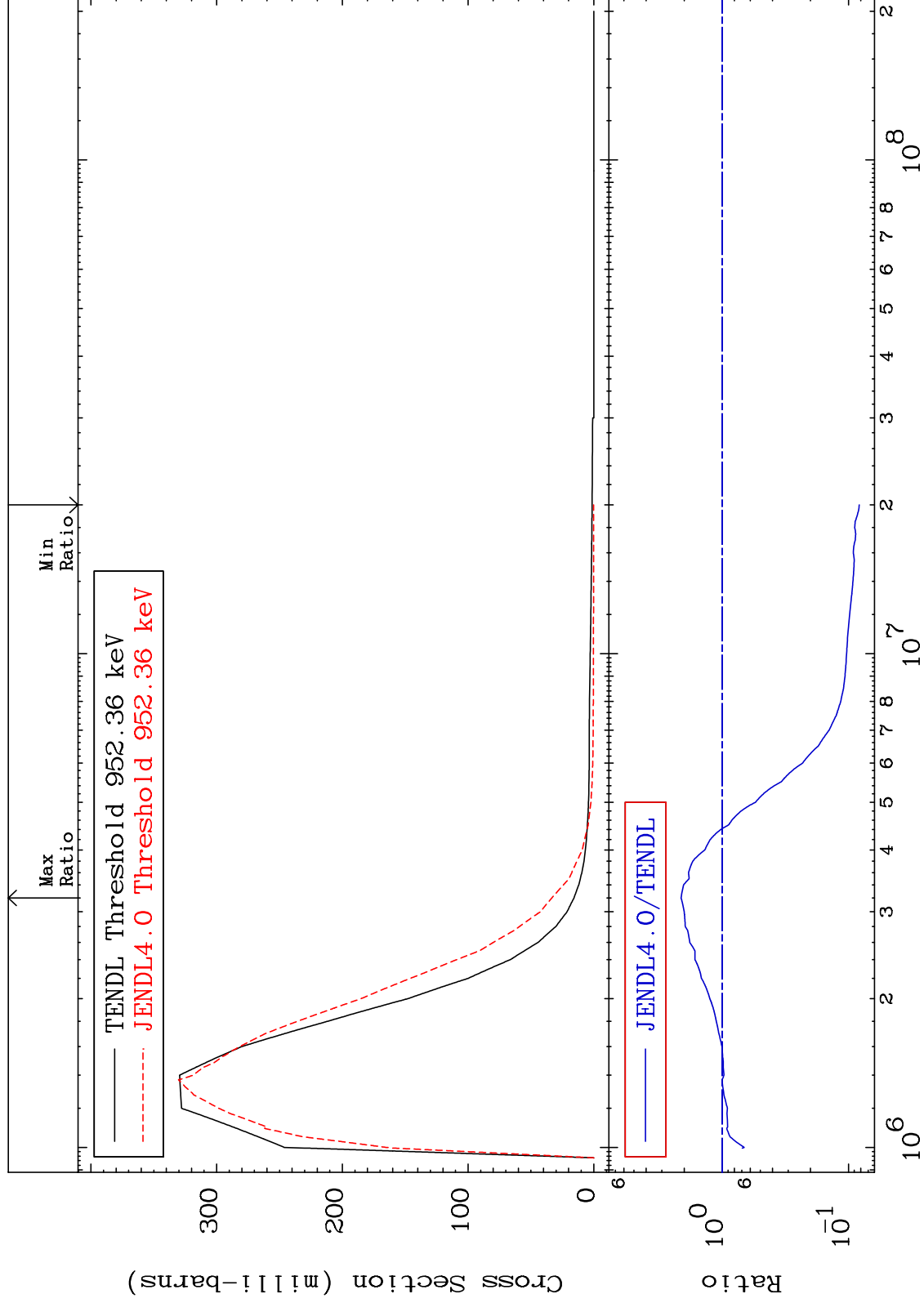
66-Dy-158

66-Dy-158

MAT 6631

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

66-Dy-158  
-91.78 To 111.6 %



66-Dy-158

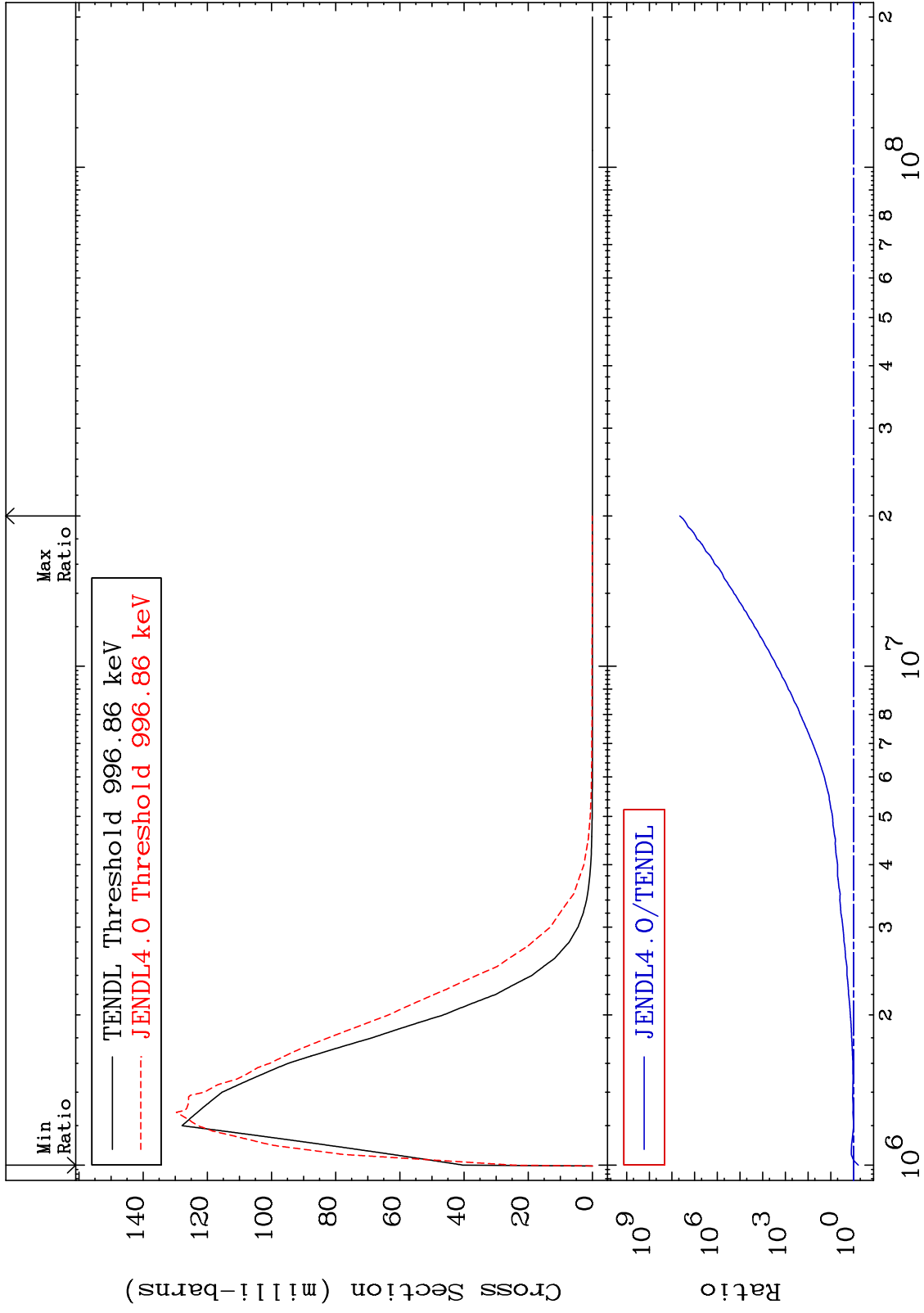
Incident Energy (eV)

13

MAT 6631

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

66-Dy-158  
-39.34 To 9999. %



14

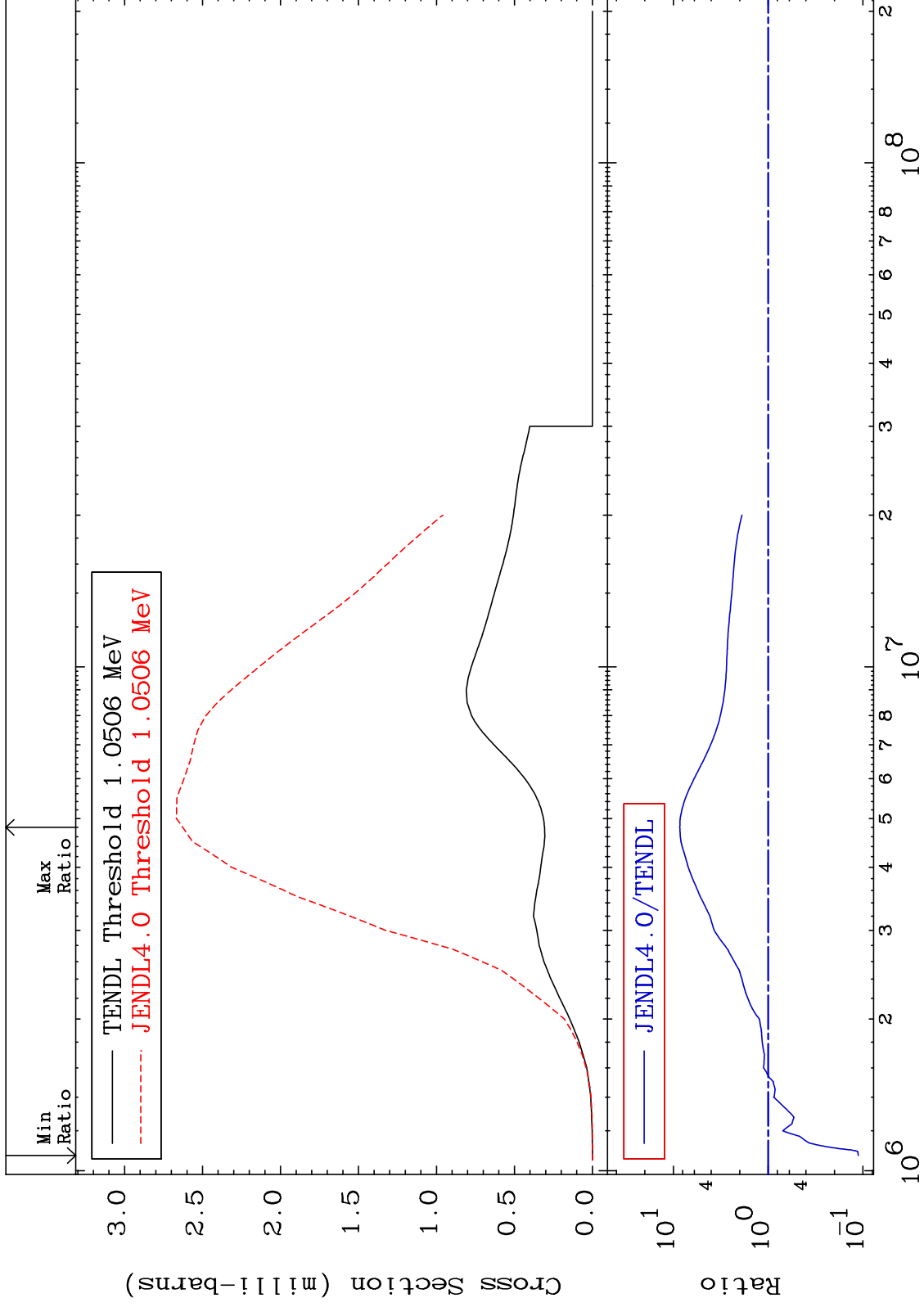
Incident Energy (eV)

66-Dy-158

MAT 6631

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

66-Dy-158  
-88.81 To 756.6 %



15

66-Dy-158

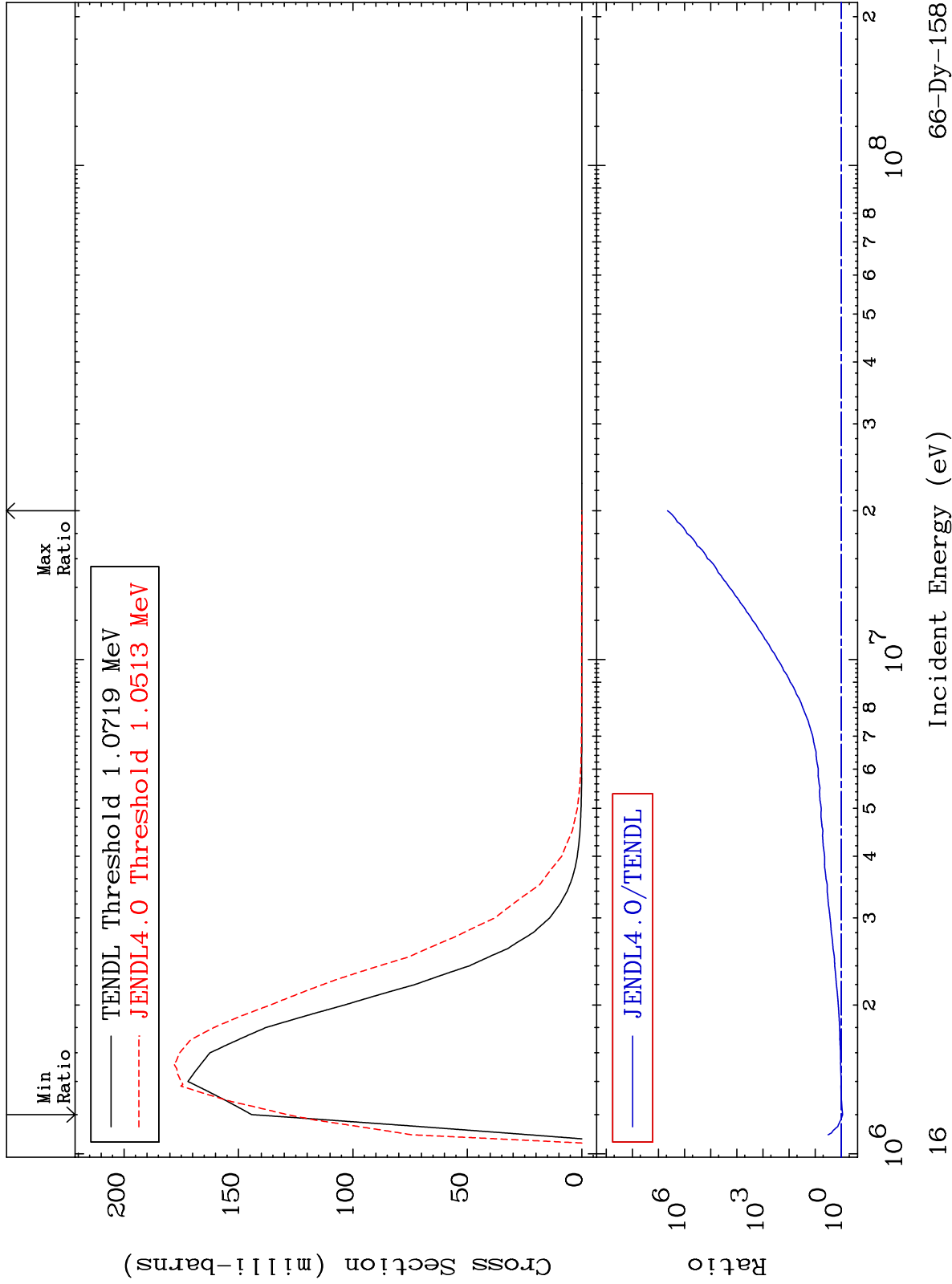
66-Dy-158



MAT 6631

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

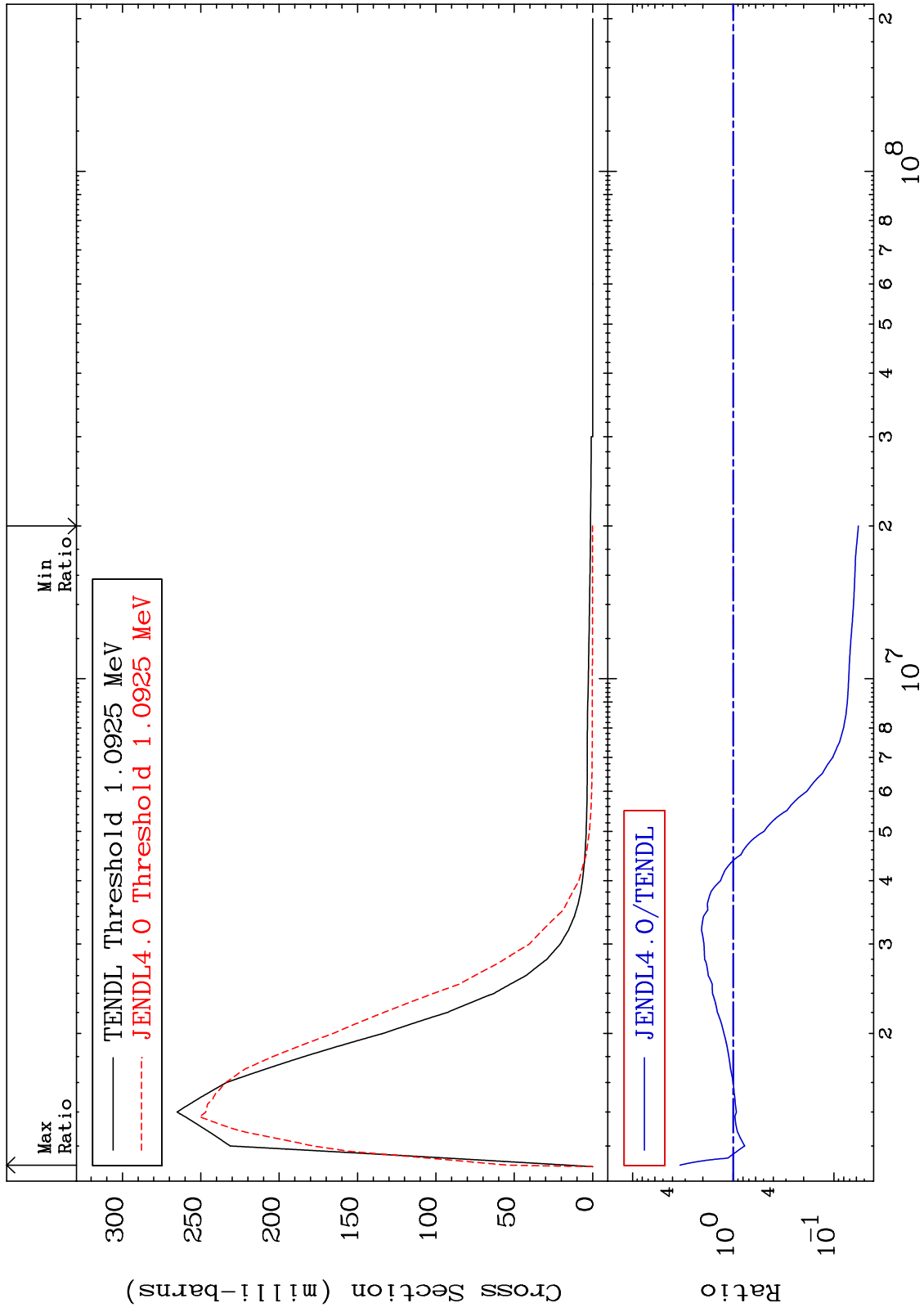
66-Dy-158  
-10.78 To 9999. %



MAT 6631

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

66-Dy-158  
-94.28 To 237.8 %



17

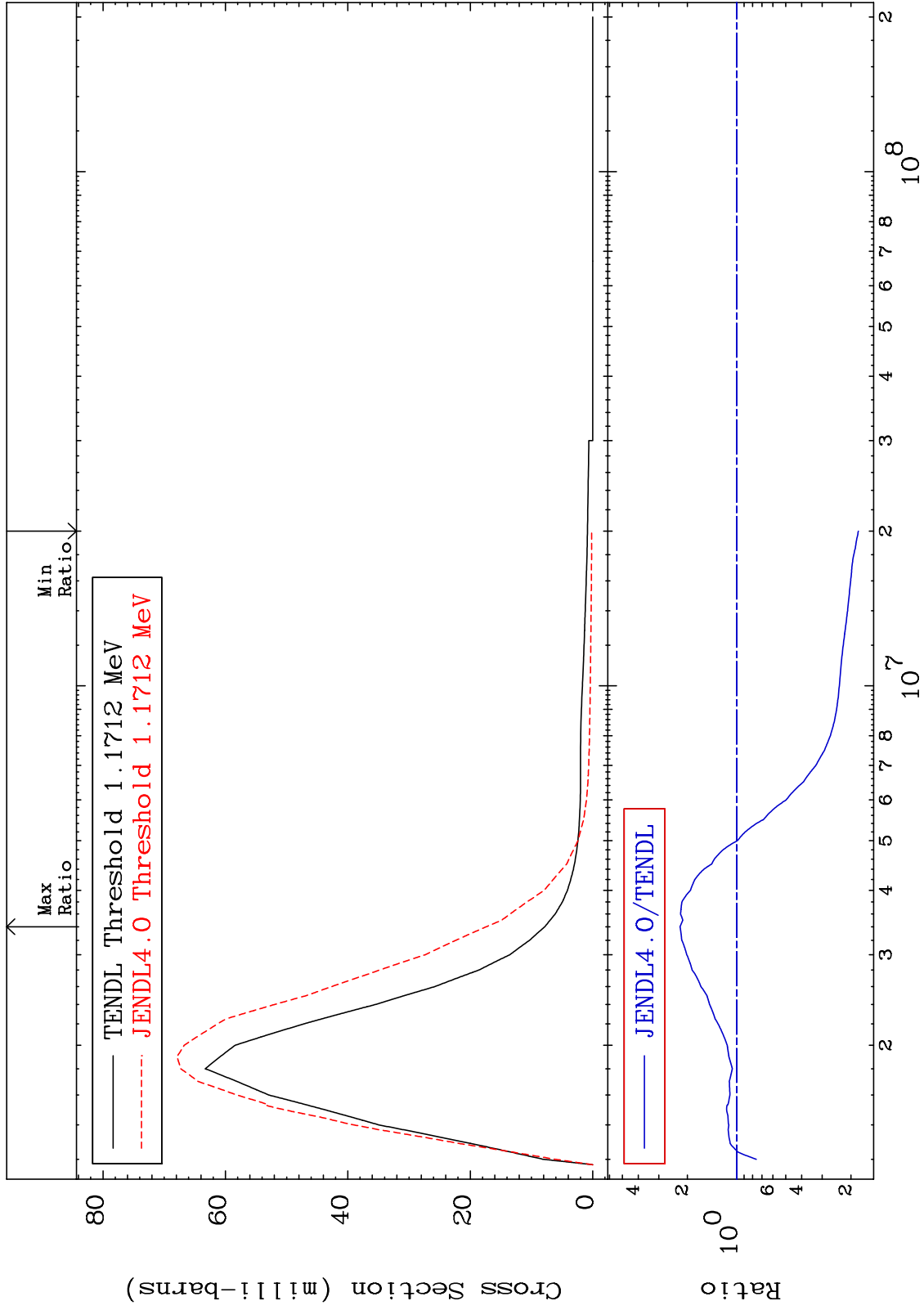
Incident Energy (eV)

66-Dy-158

MAT 6631

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

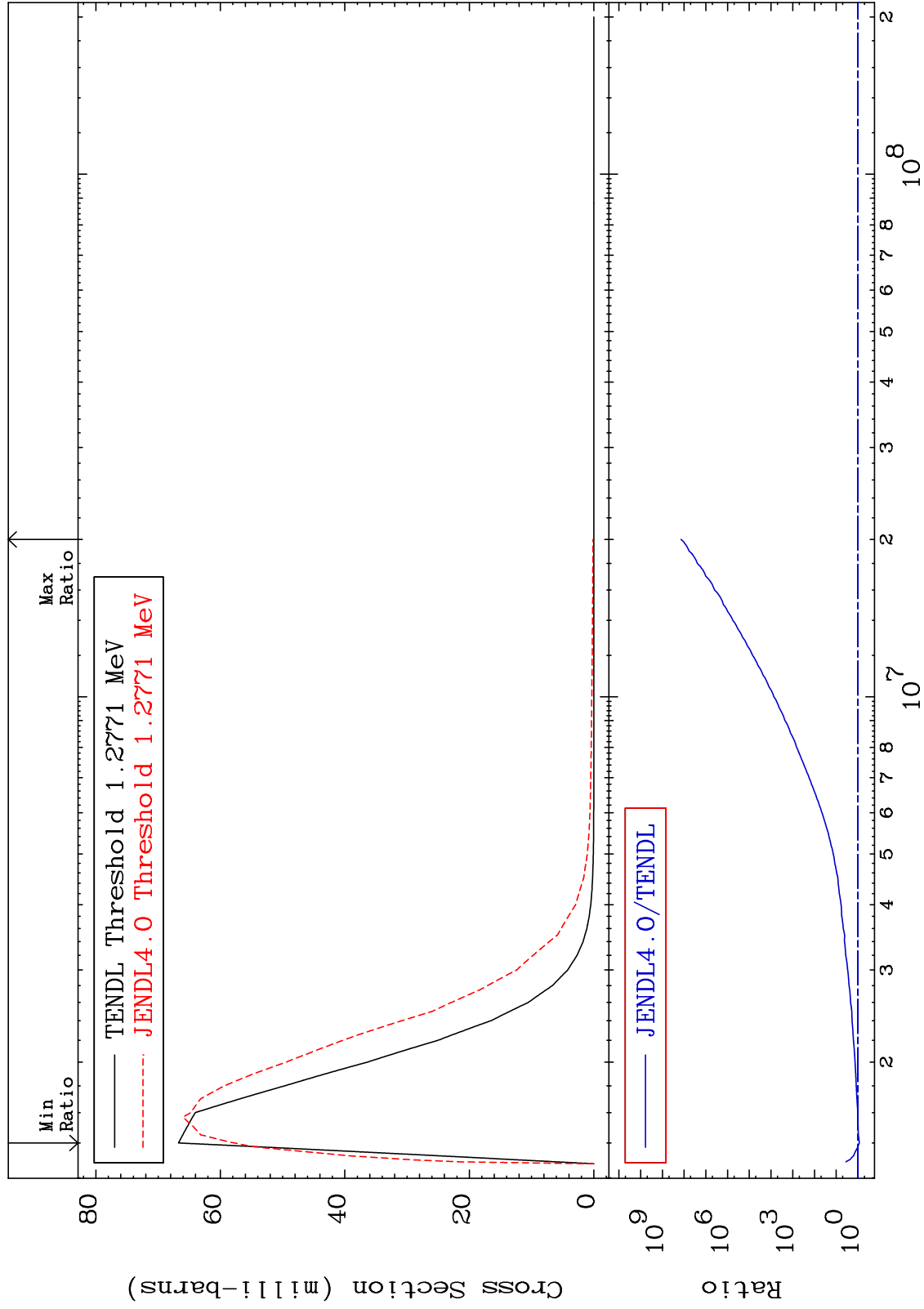
66-Dy-158  
-82.02 To 122.1 %



MAT 6631

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

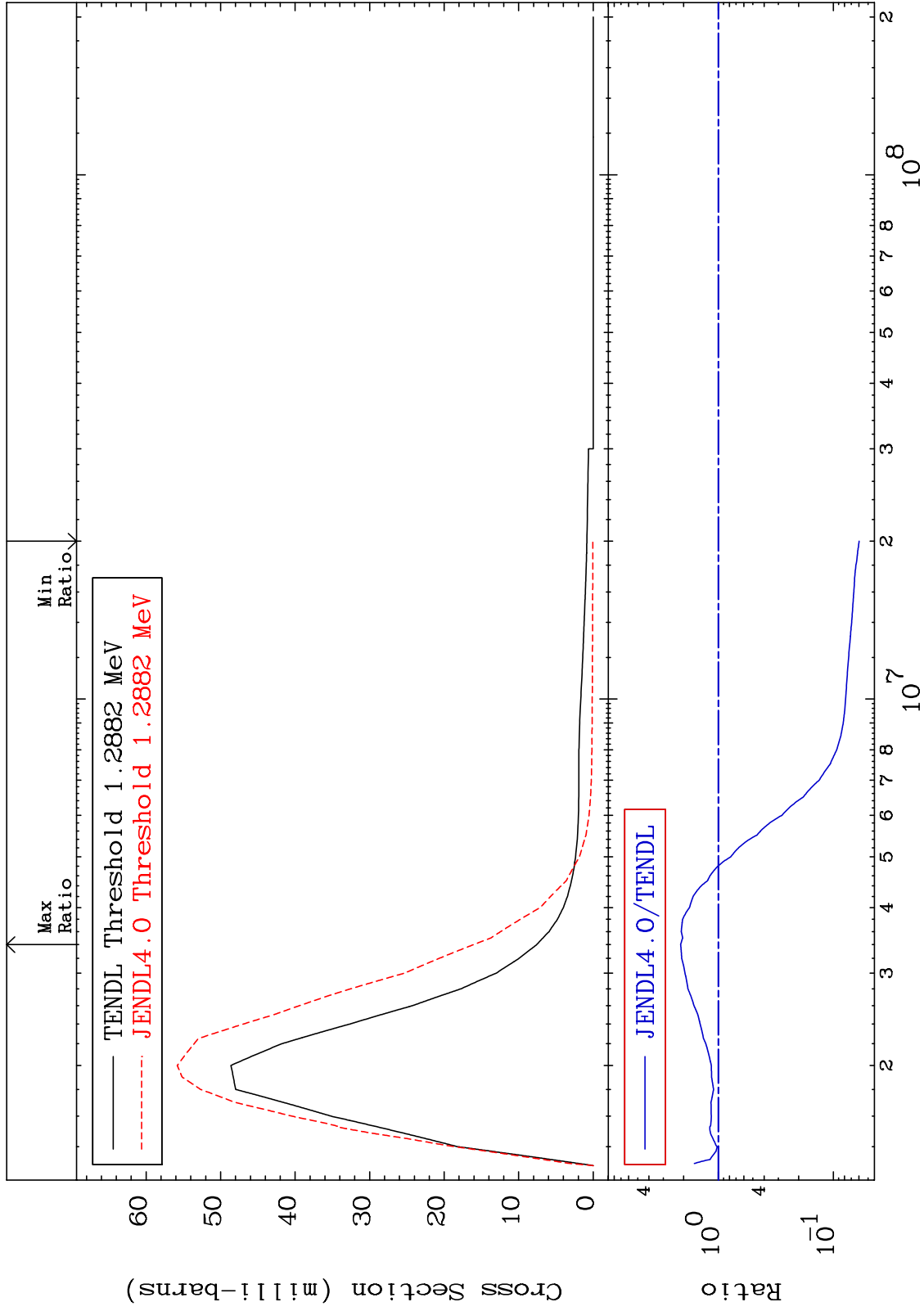
66-Dy-158  
-13.47 To 9999. %



MAT 6631

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

66-Dy-158  
-94.03 To 112.1 %



20

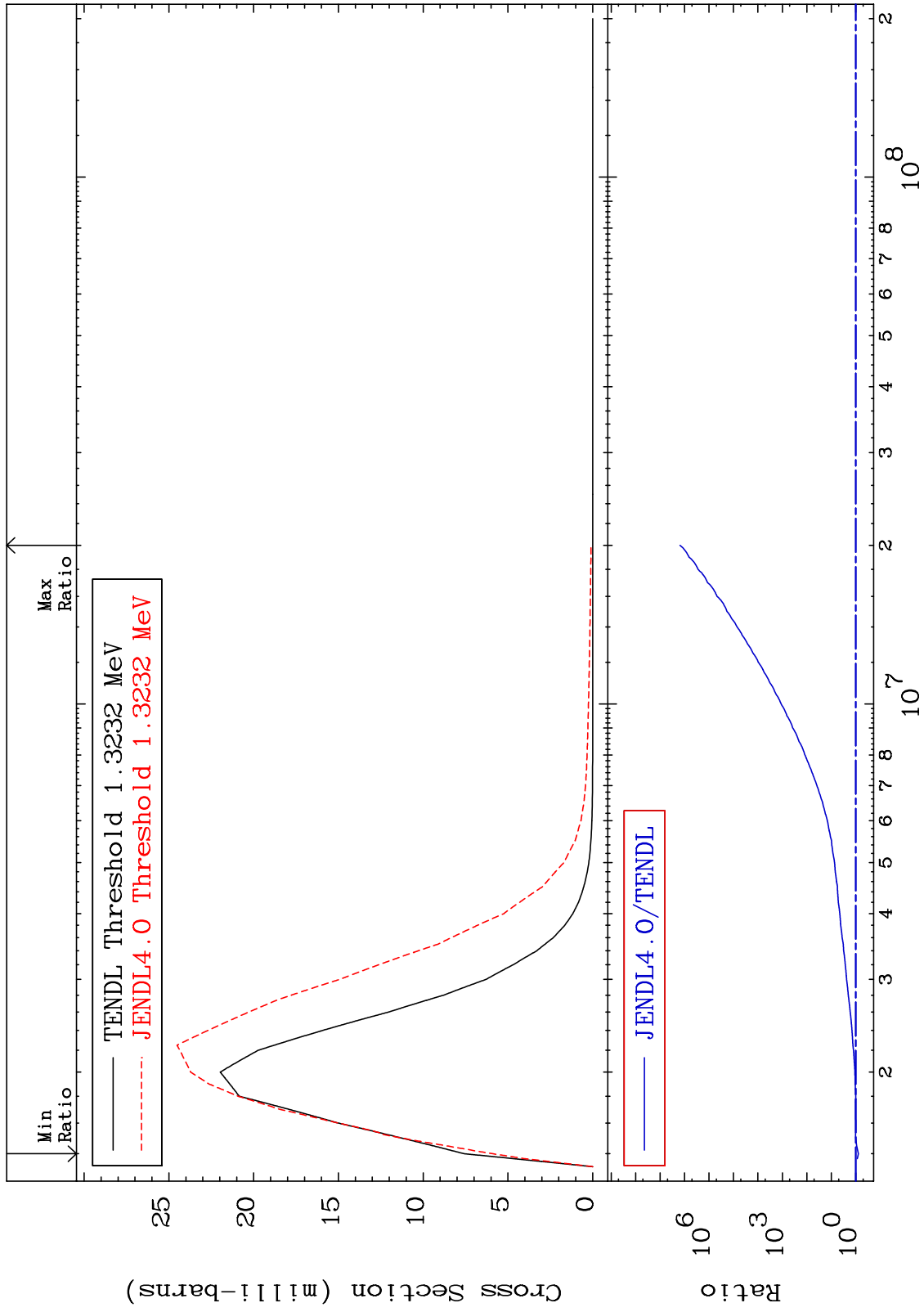
Incident Energy (eV)

66-Dy-158

MAT 6631

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

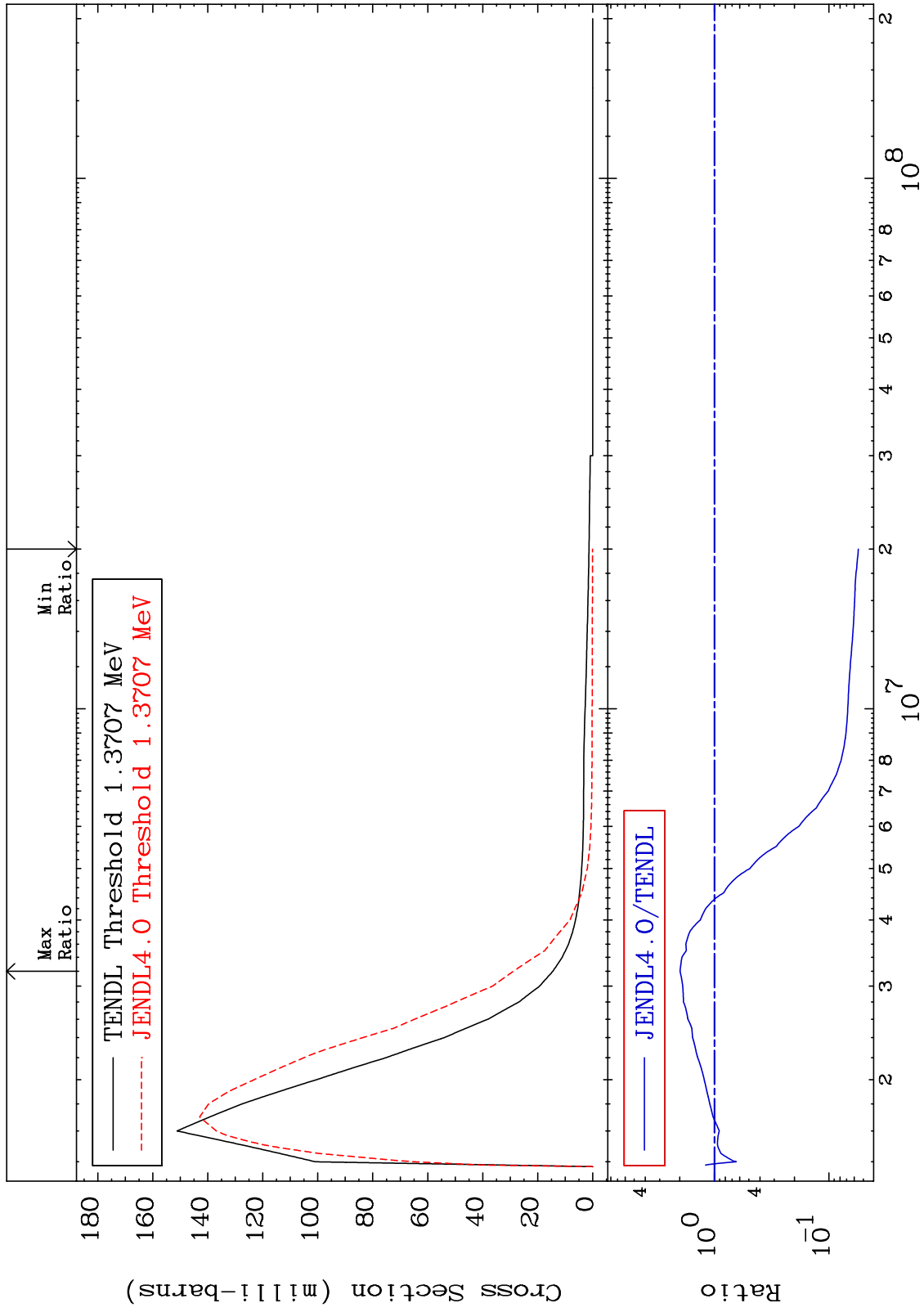
66-Dy-158  
-22.26 To 9999. %



MAT 6631

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

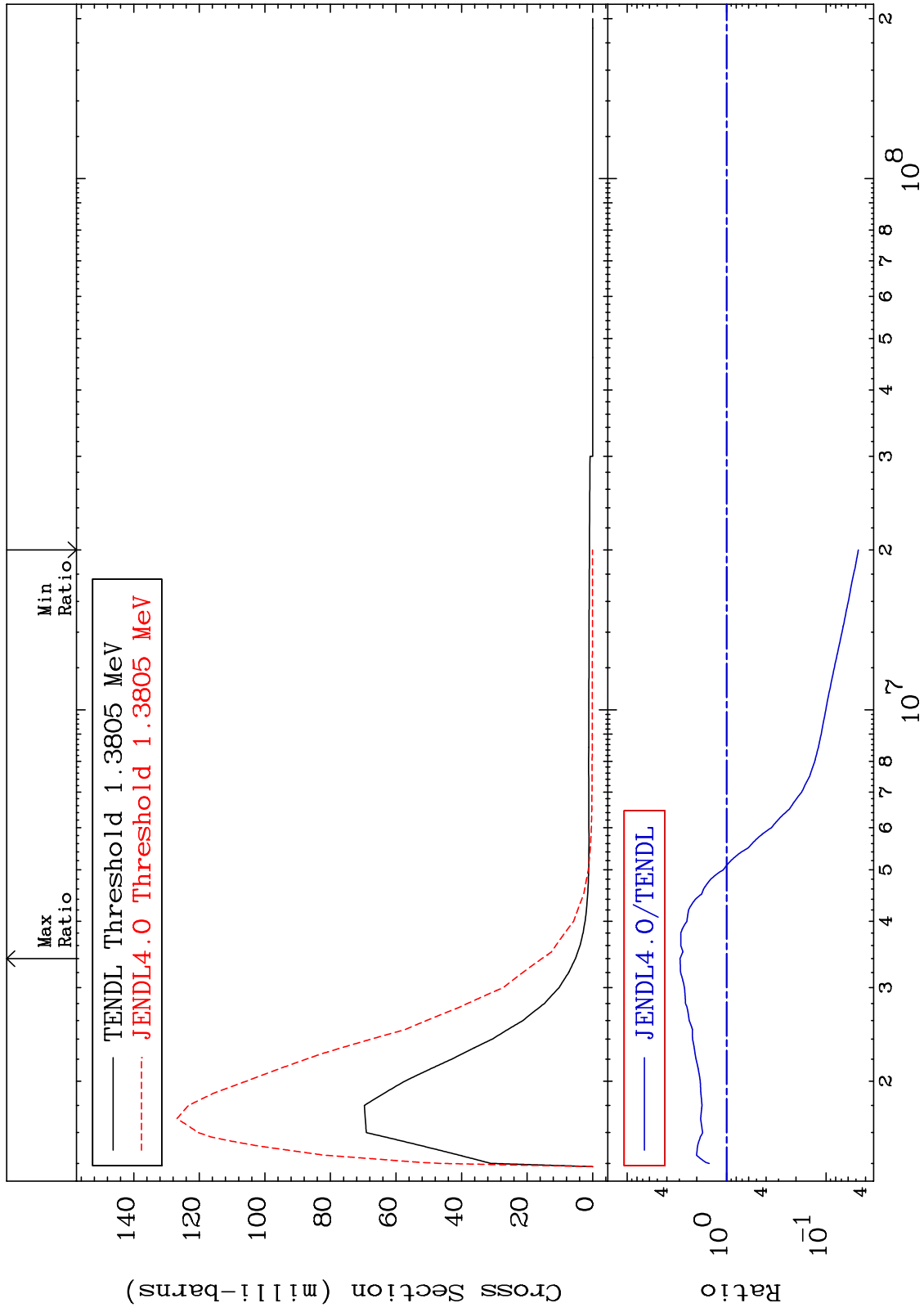
66-Dy-158  
-94.48 To 99.26 %



MAT 6631

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

66-Dy-158  
-95.28 To 194.6 %

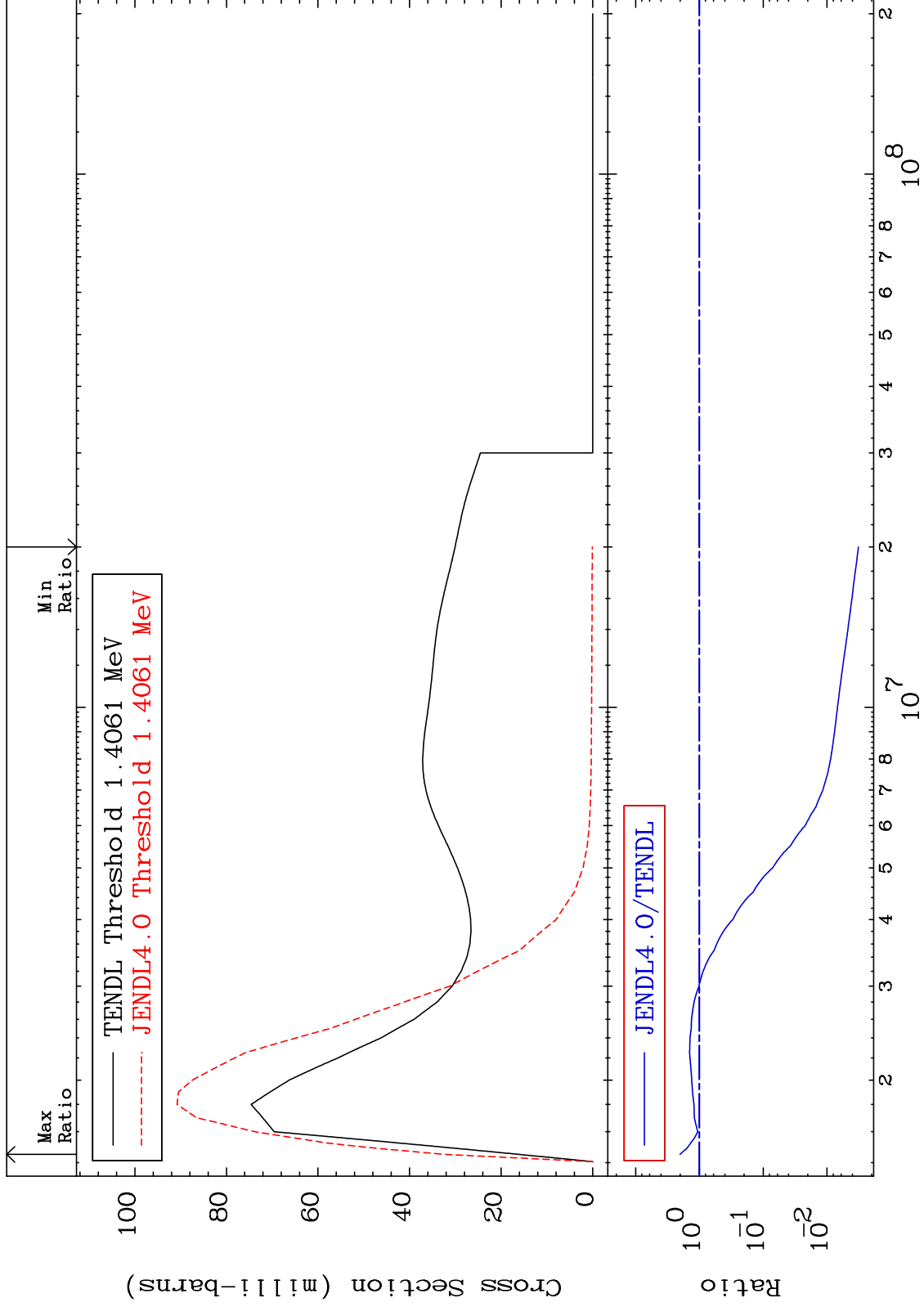




MAT 6631

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

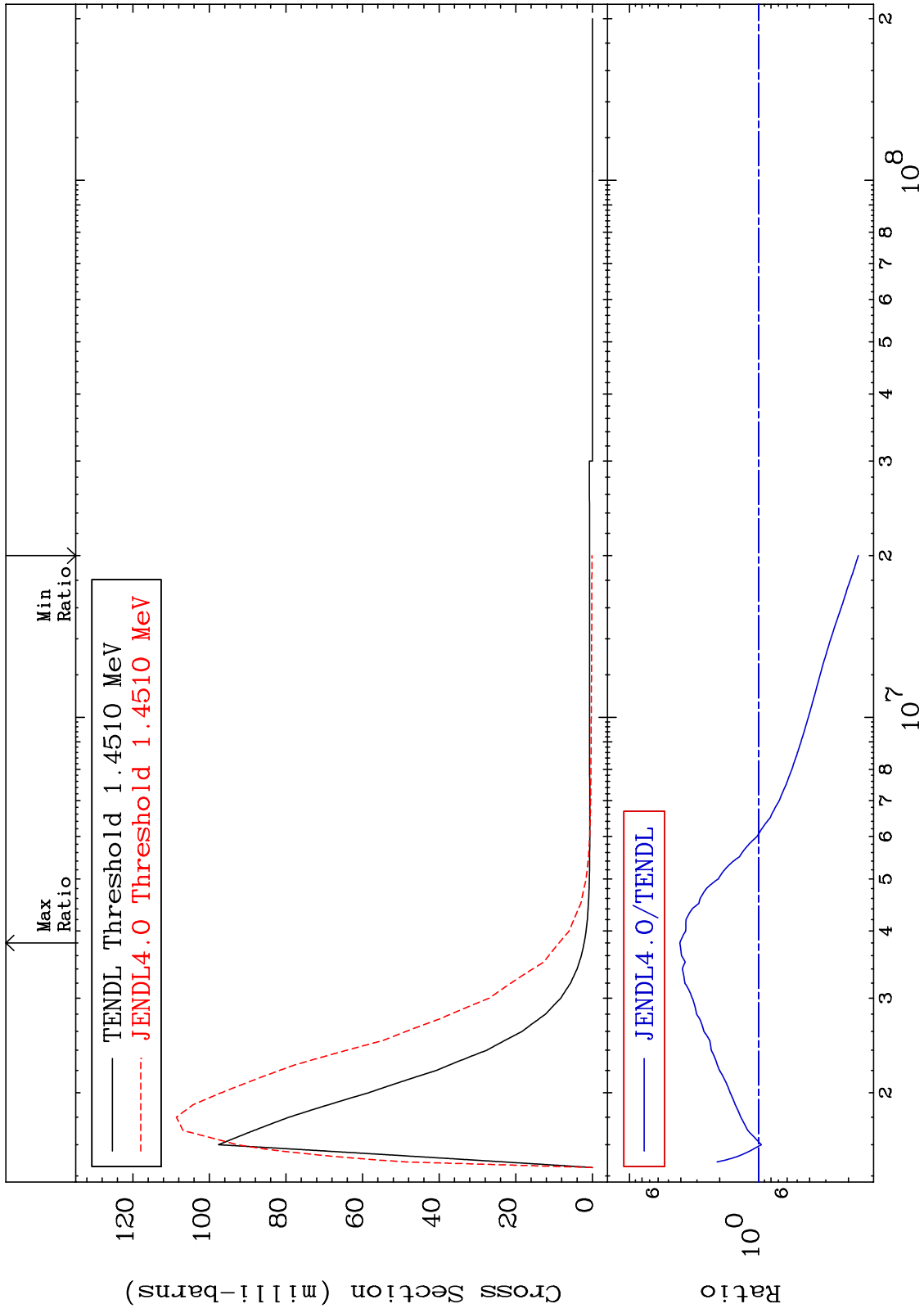
66-Dy-158  
-99.68 To 101.1 %



MAT 6631

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

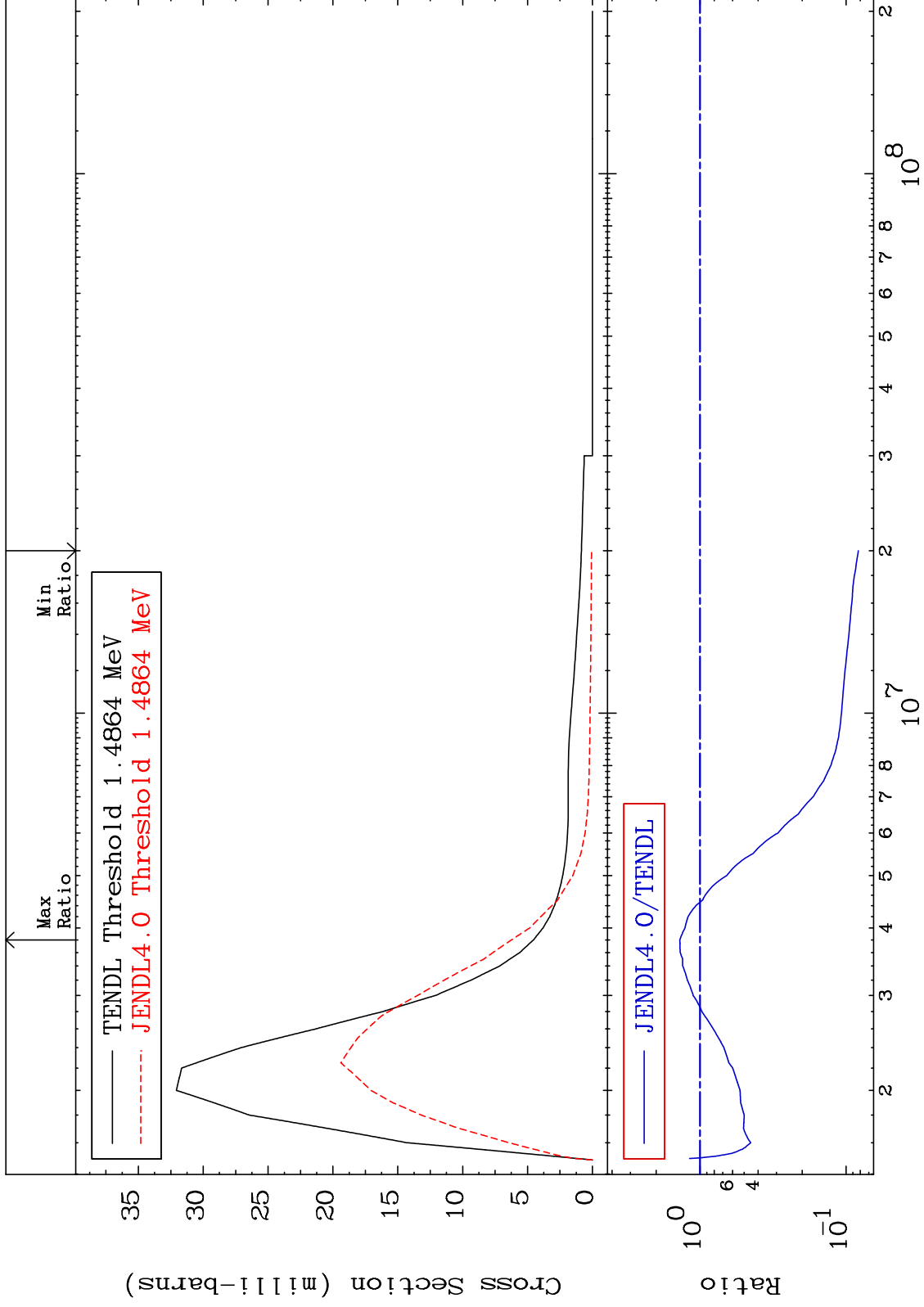
66-Dy-158  
-83.22 To 307.7 %



MAT 6631

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

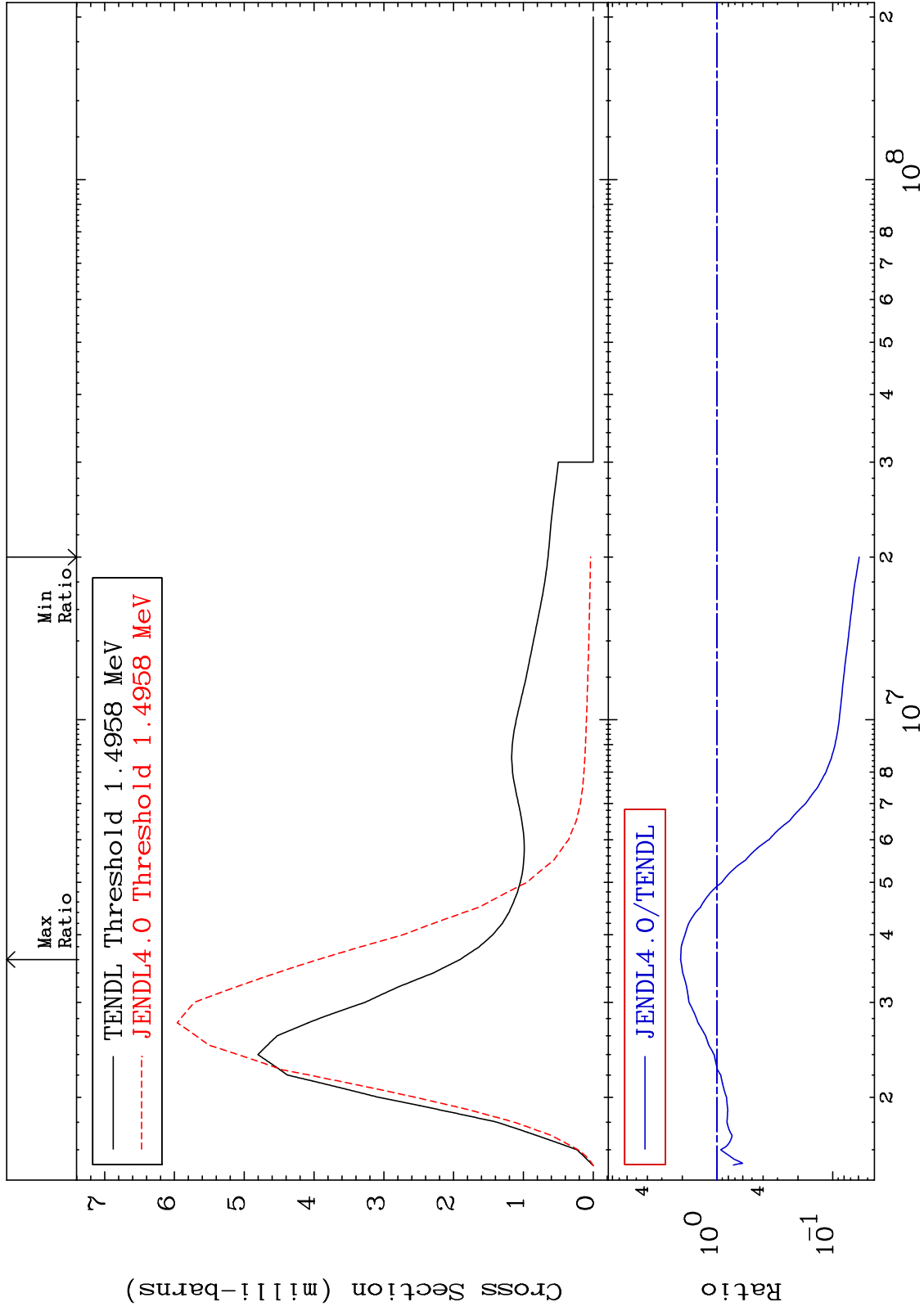
66-Dy-158  
-91.75 To 37.58 %



MAT 6631

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

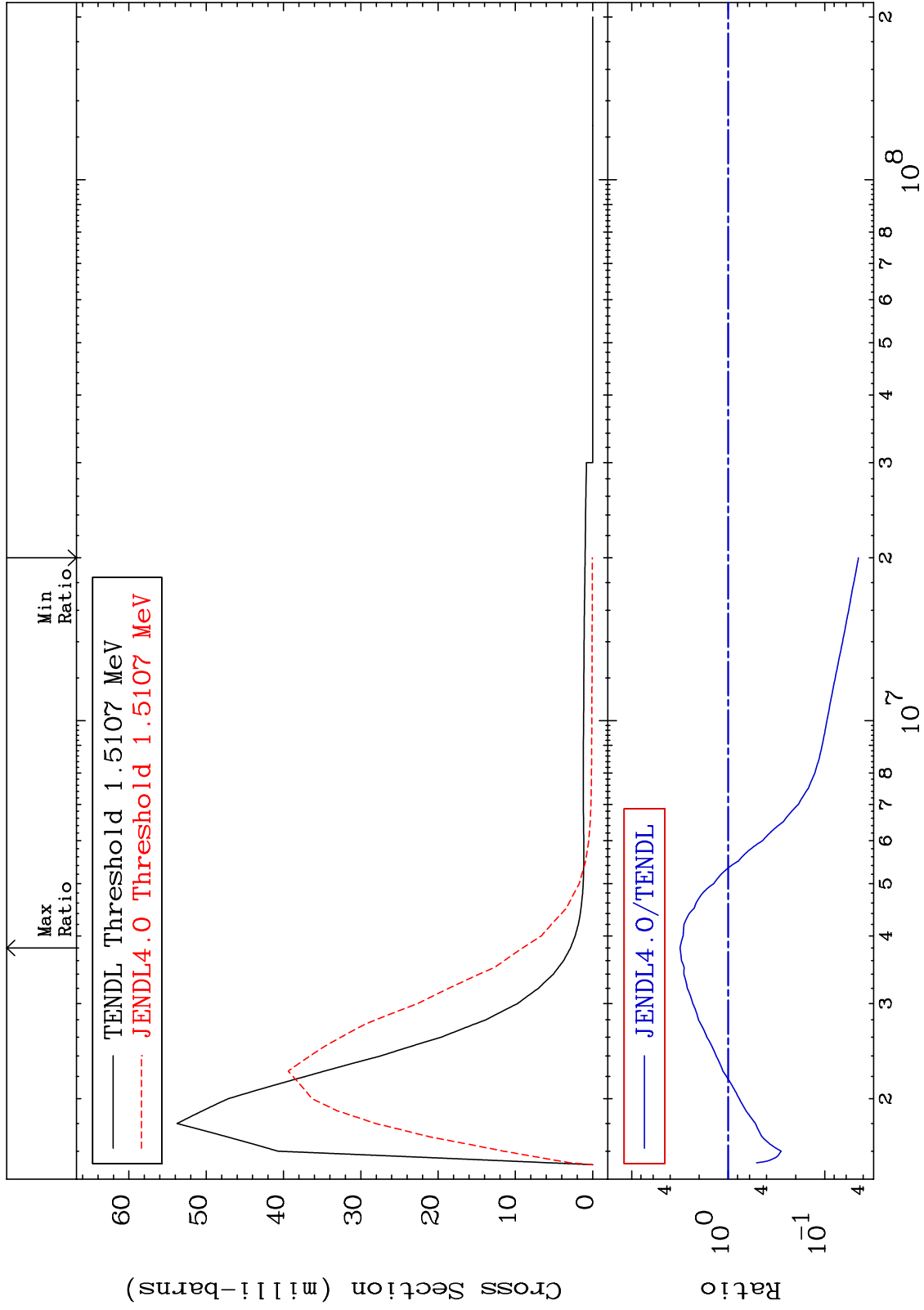
66-Dy-158  
-94.09 To 106.5 %



MAT 6631

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

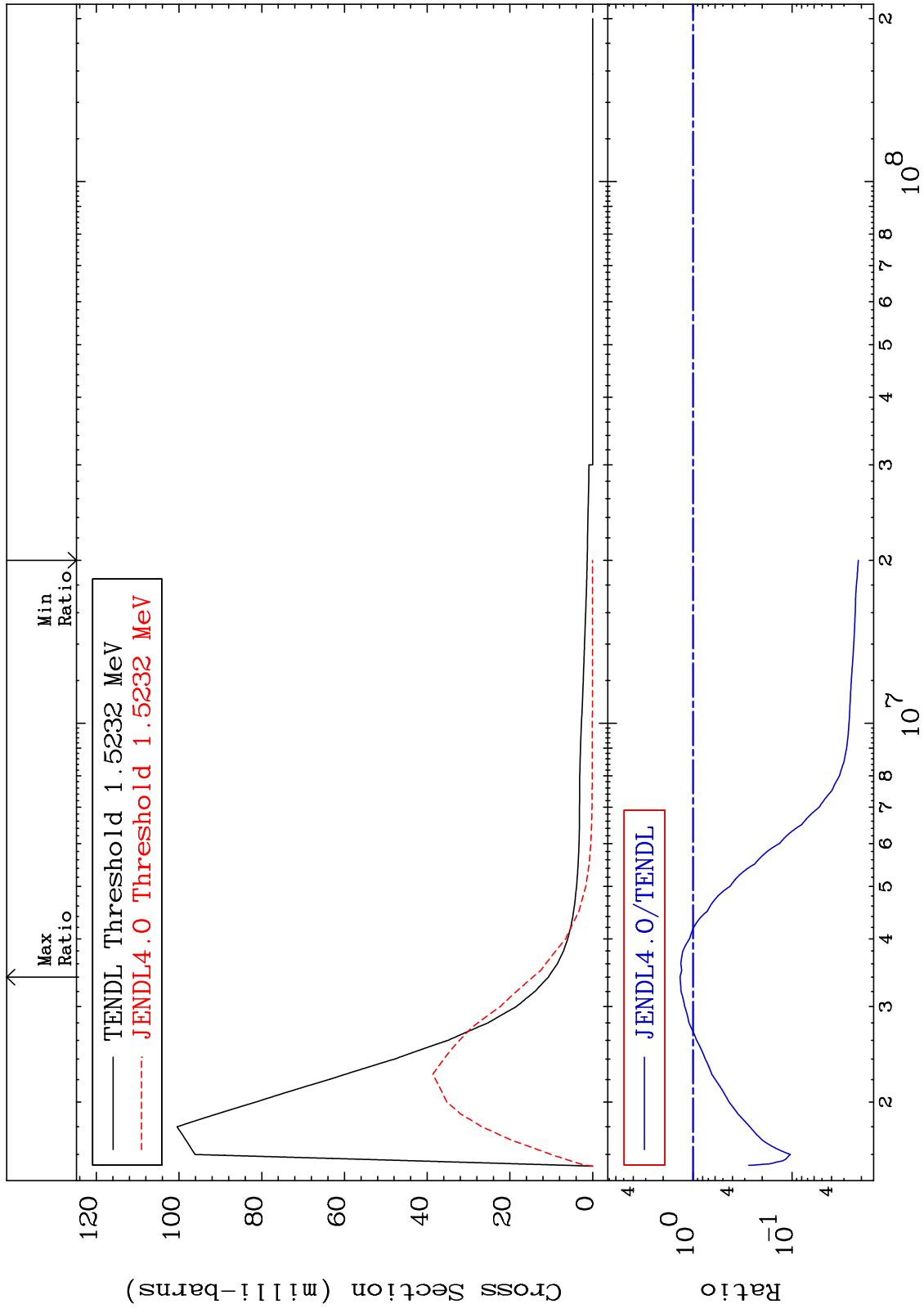
66-Dy-158  
-95.52 To 215.6 %



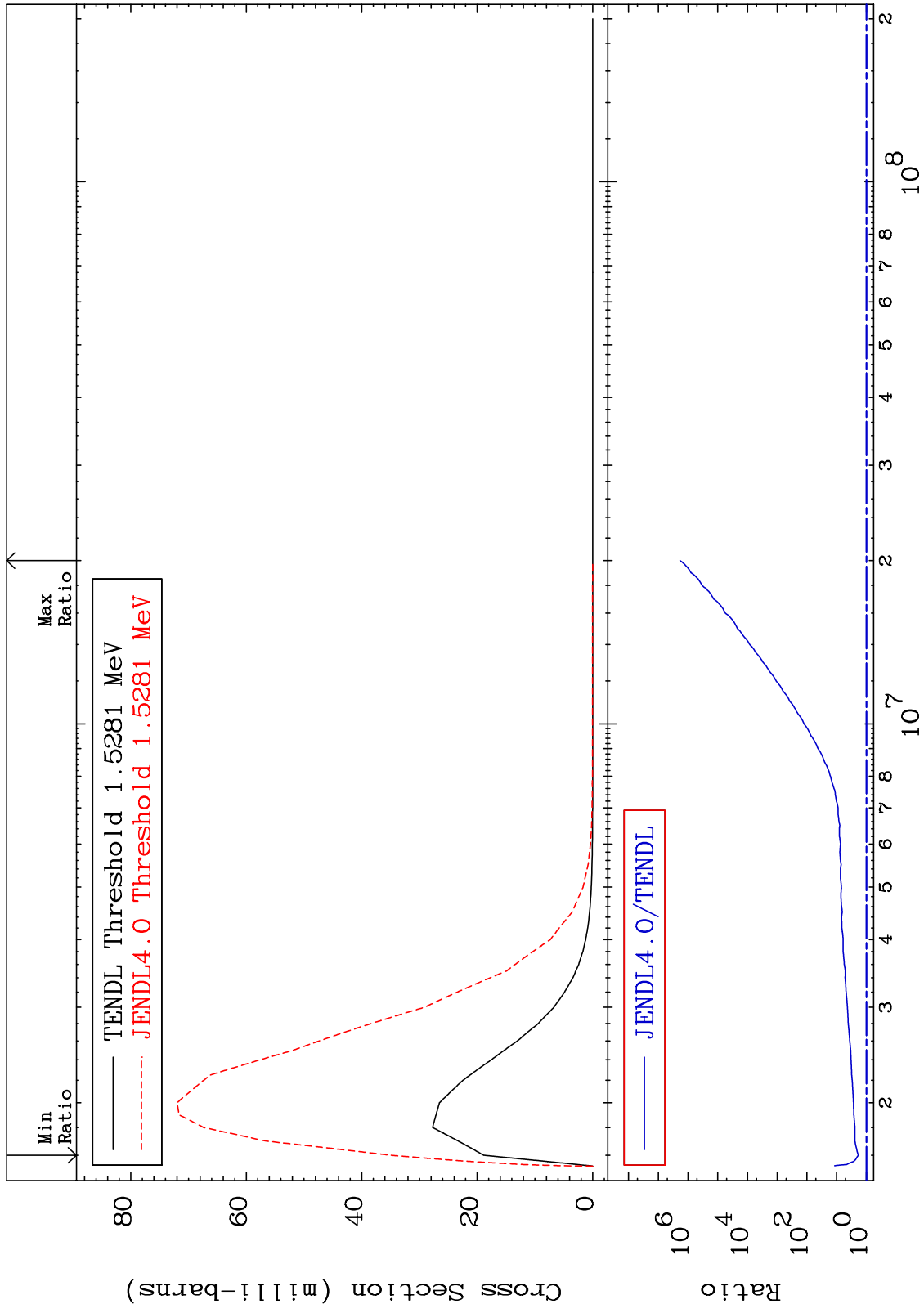
MAT 6631

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

66-Dy-158  
-97.86 To 35.17 %



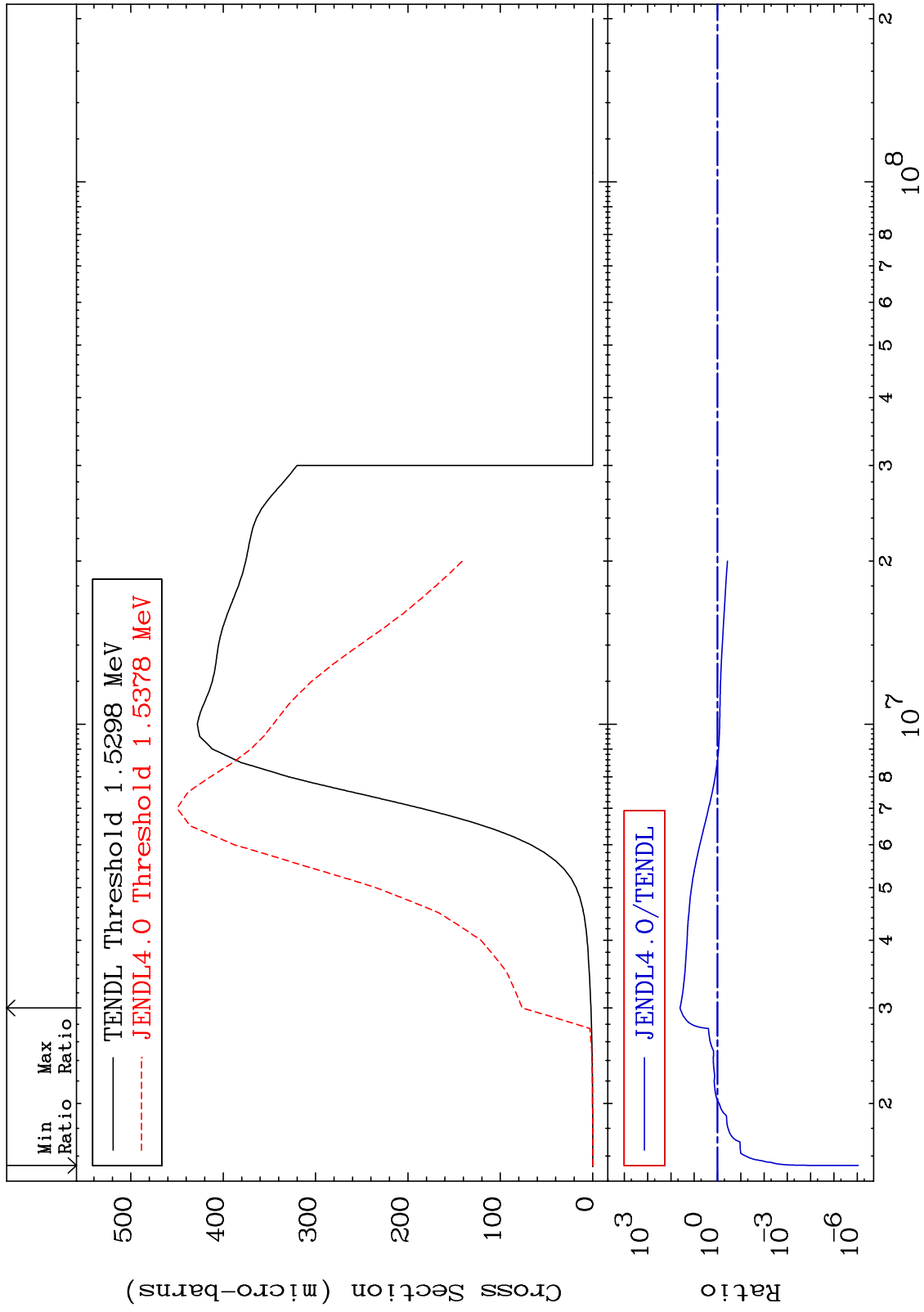
MAT 6631 MT= 71 (n,n') Level Cross Section 66-Dy-158 85.31 To 9999. %



MAT 6631

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

66-Dy-158  
-100.0 To 3965. %

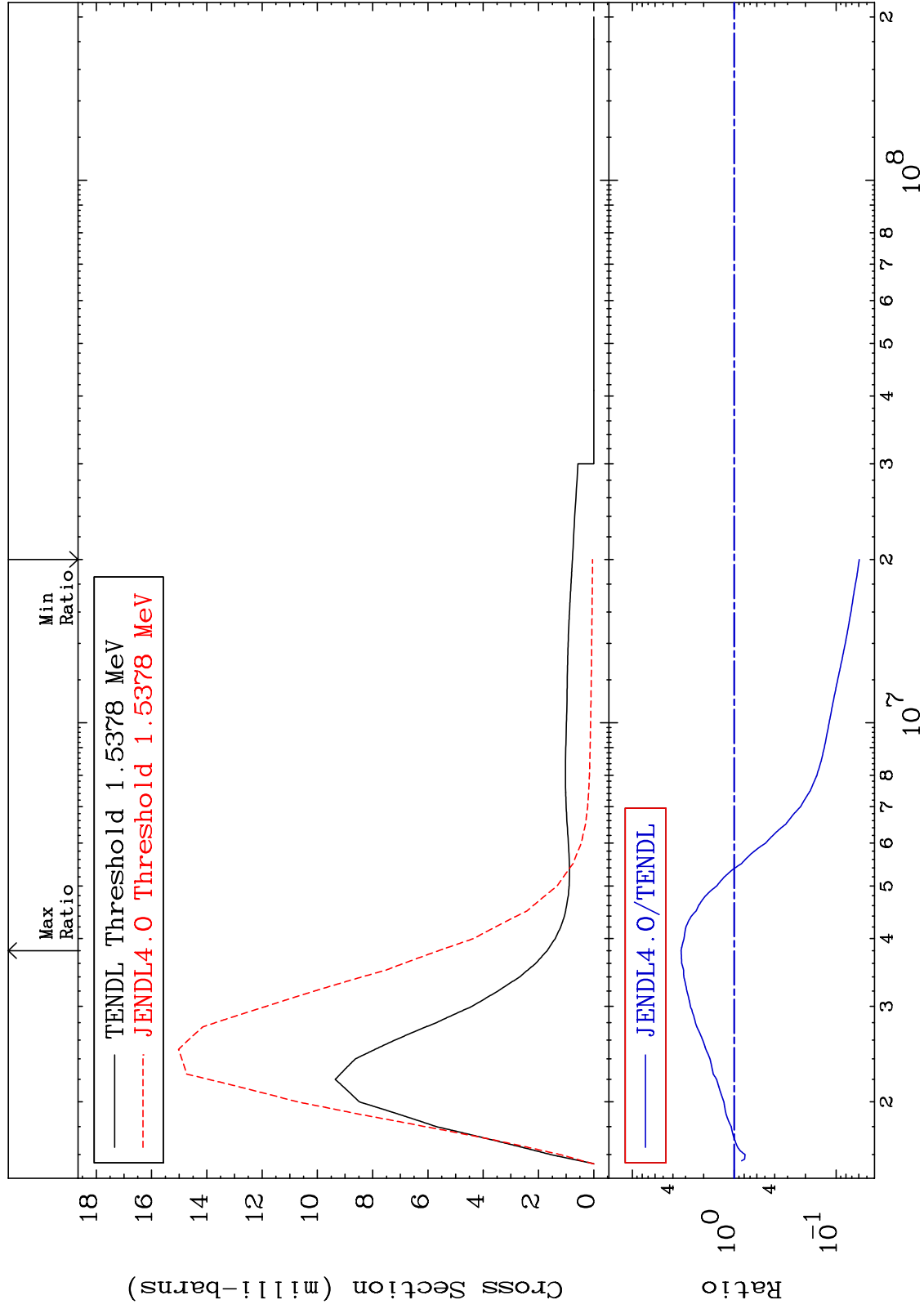




MAT 6631

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

66-Dy-158  
-94.08 To 232.6 %



32

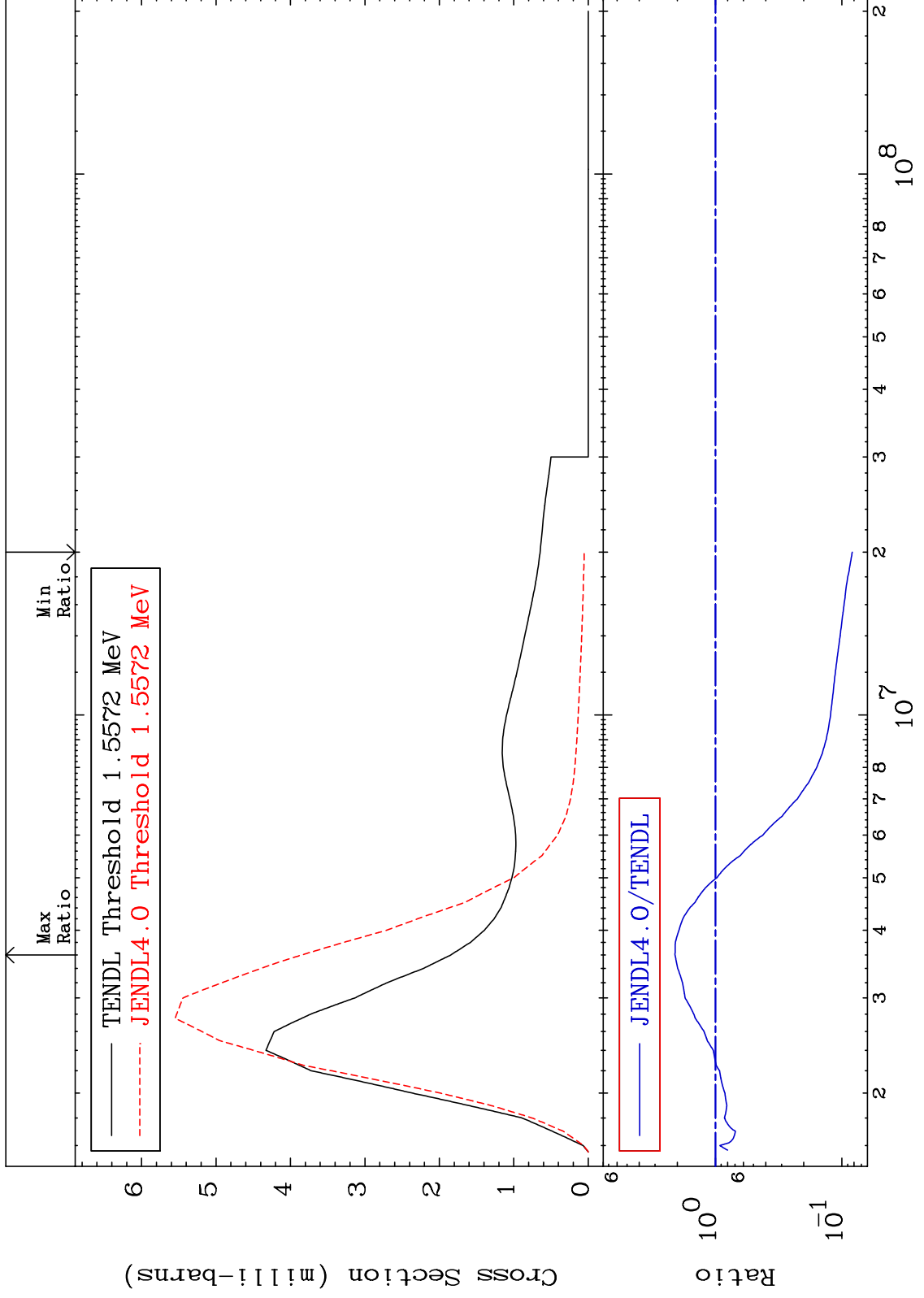
66-Dy-158

66-Dy-158

MAT 6631

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

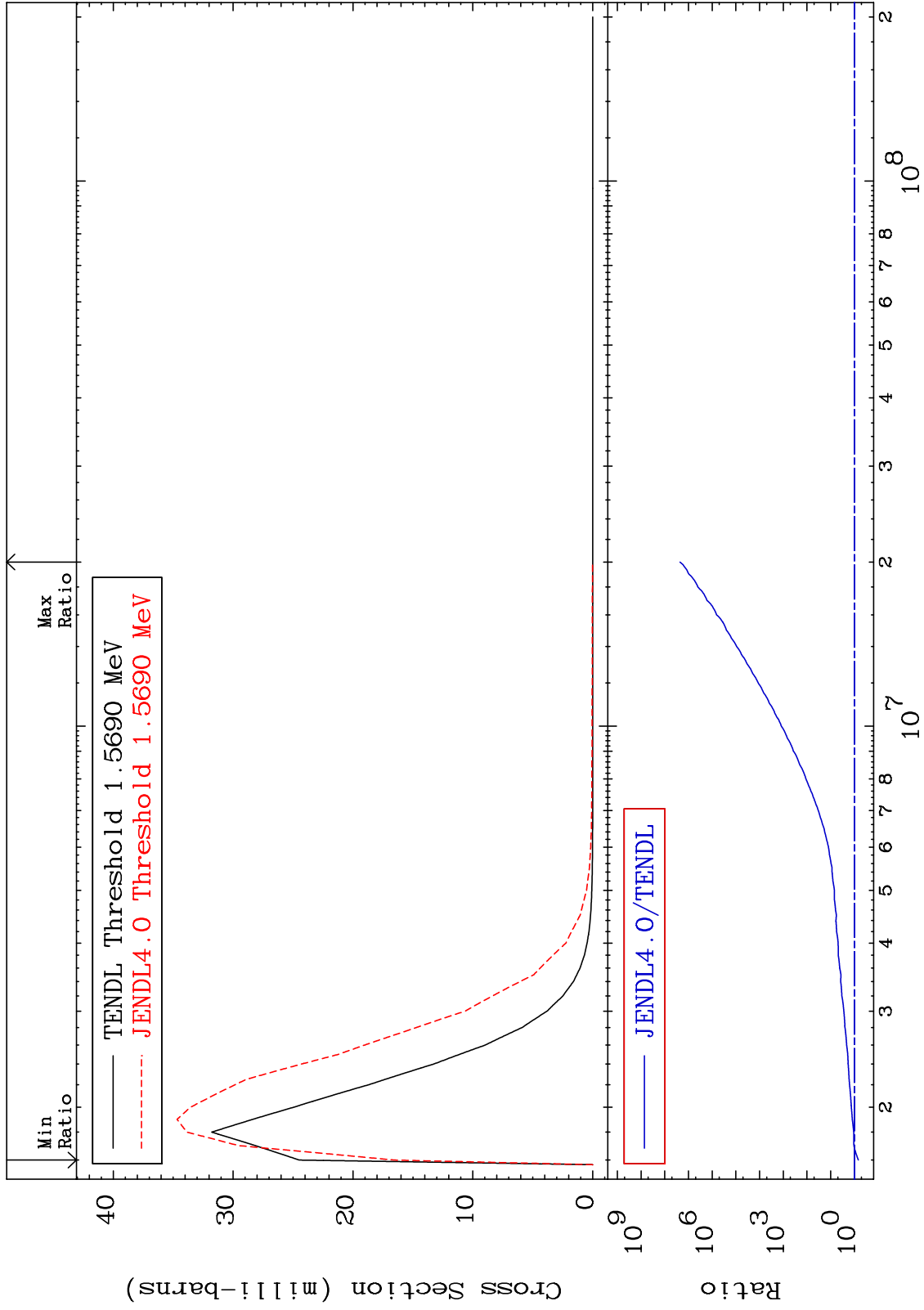
66-Dy-158  
-91.74 To 108.6 %



MAT 6631

MT= 75 (n,n') Level  
Cross Section

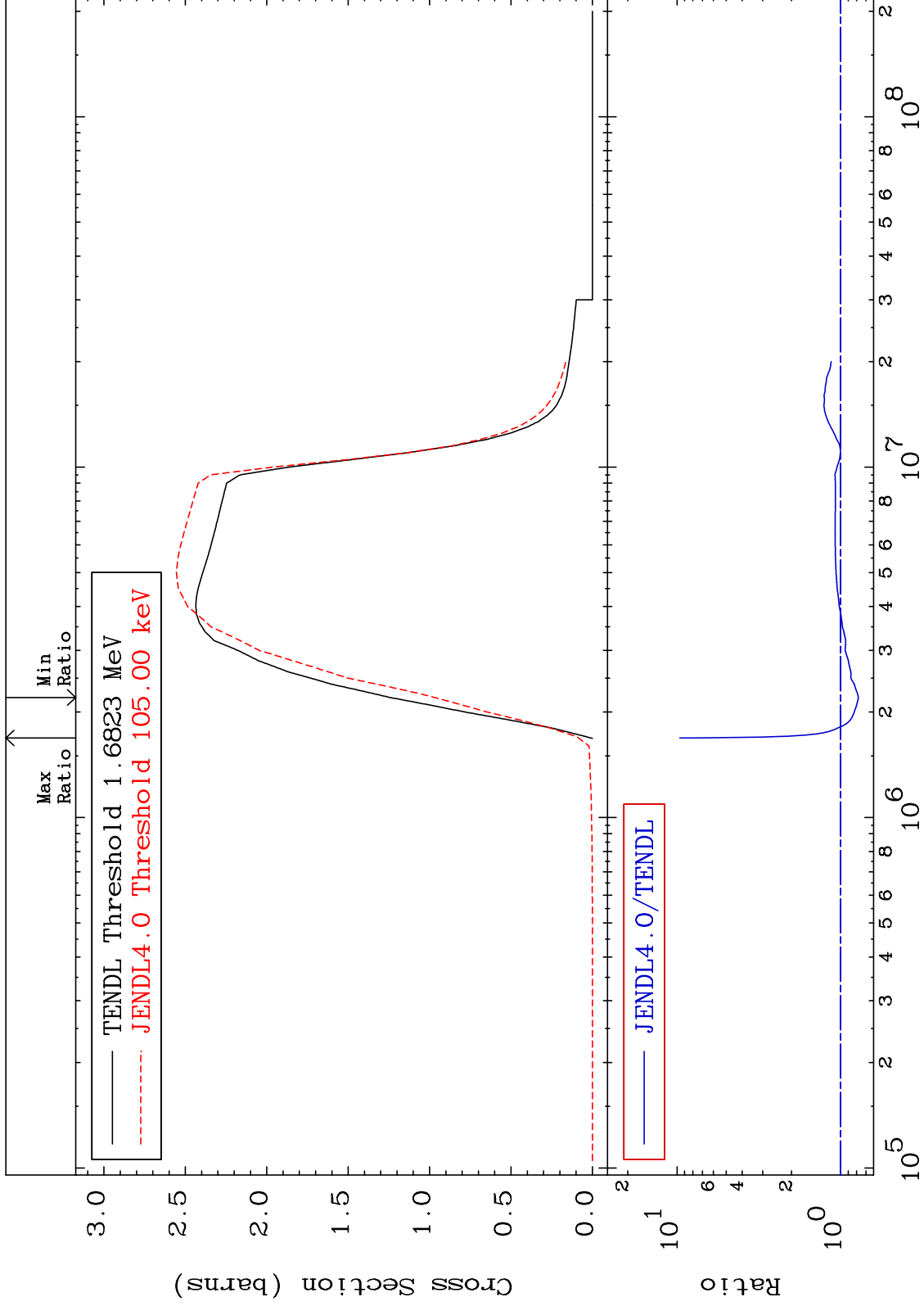
66-Dy-158  
-32.36 To 9999. %



MAT 6631

(n, n') Continuum  
Cross Section

66-Dy-158  
-21.99 To 862.0 %



35

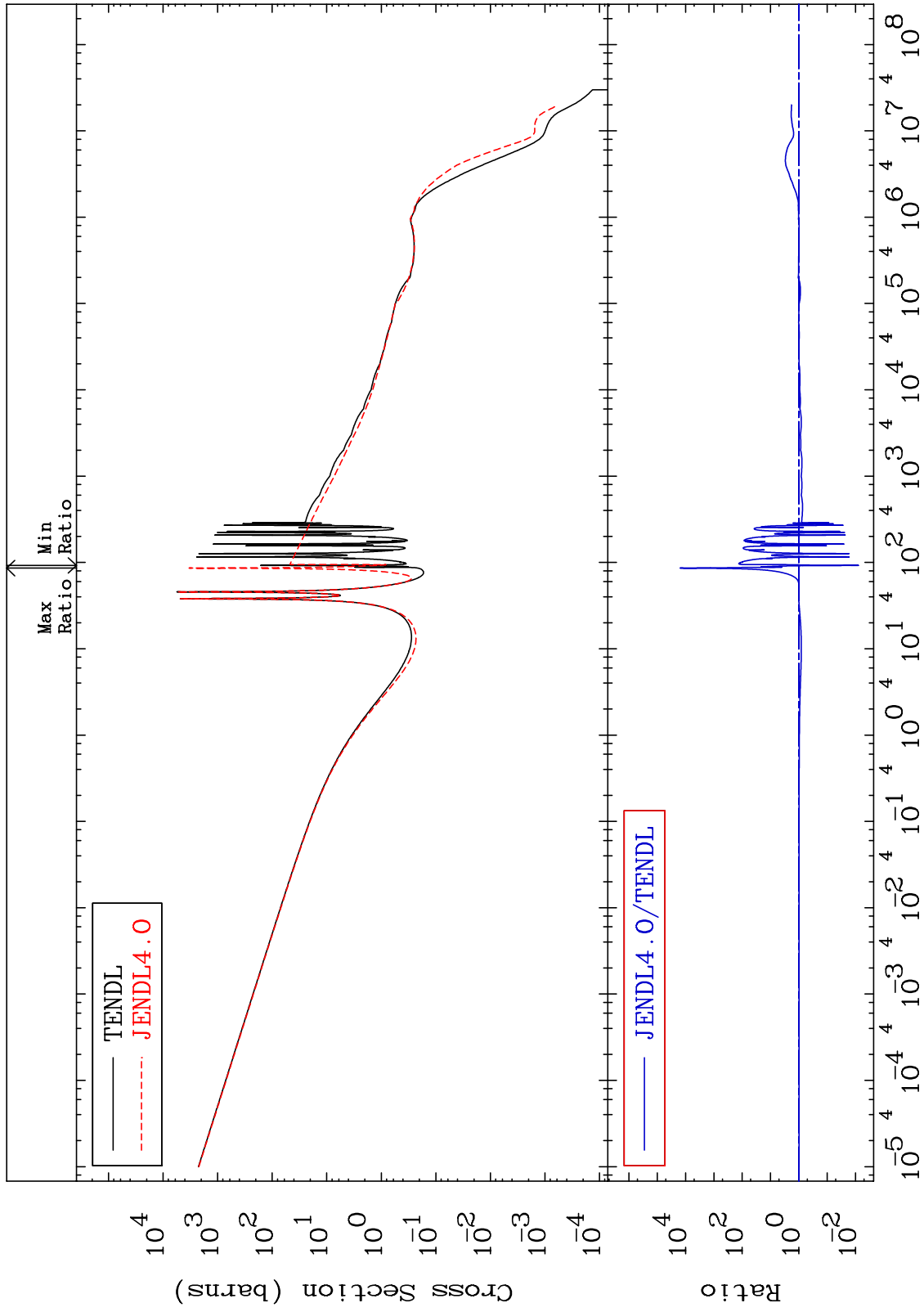
Incident Energy (eV)

66-Dy-158

MAT 6631

(n,  $\gamma$ )  
Cross Section

66-Dy-158  
-99.21 To 9999. %



36

Incident Energy (eV)

66-Dy-158

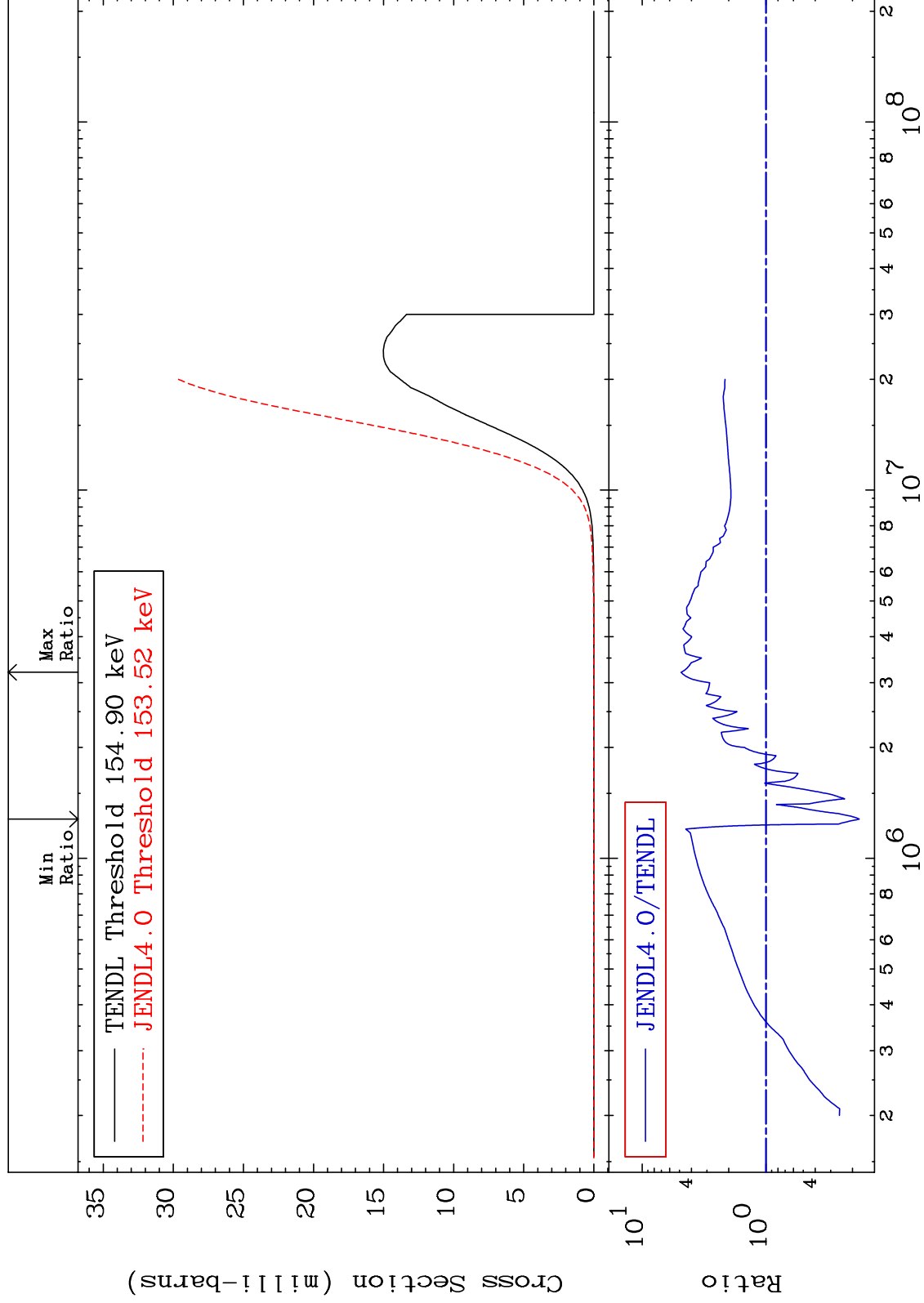
MAT 6631

(n, p)

66-Dy-158

Cross Section

-82.34 To 385.7 %



37

Incident Energy (eV)

66-Dy-158

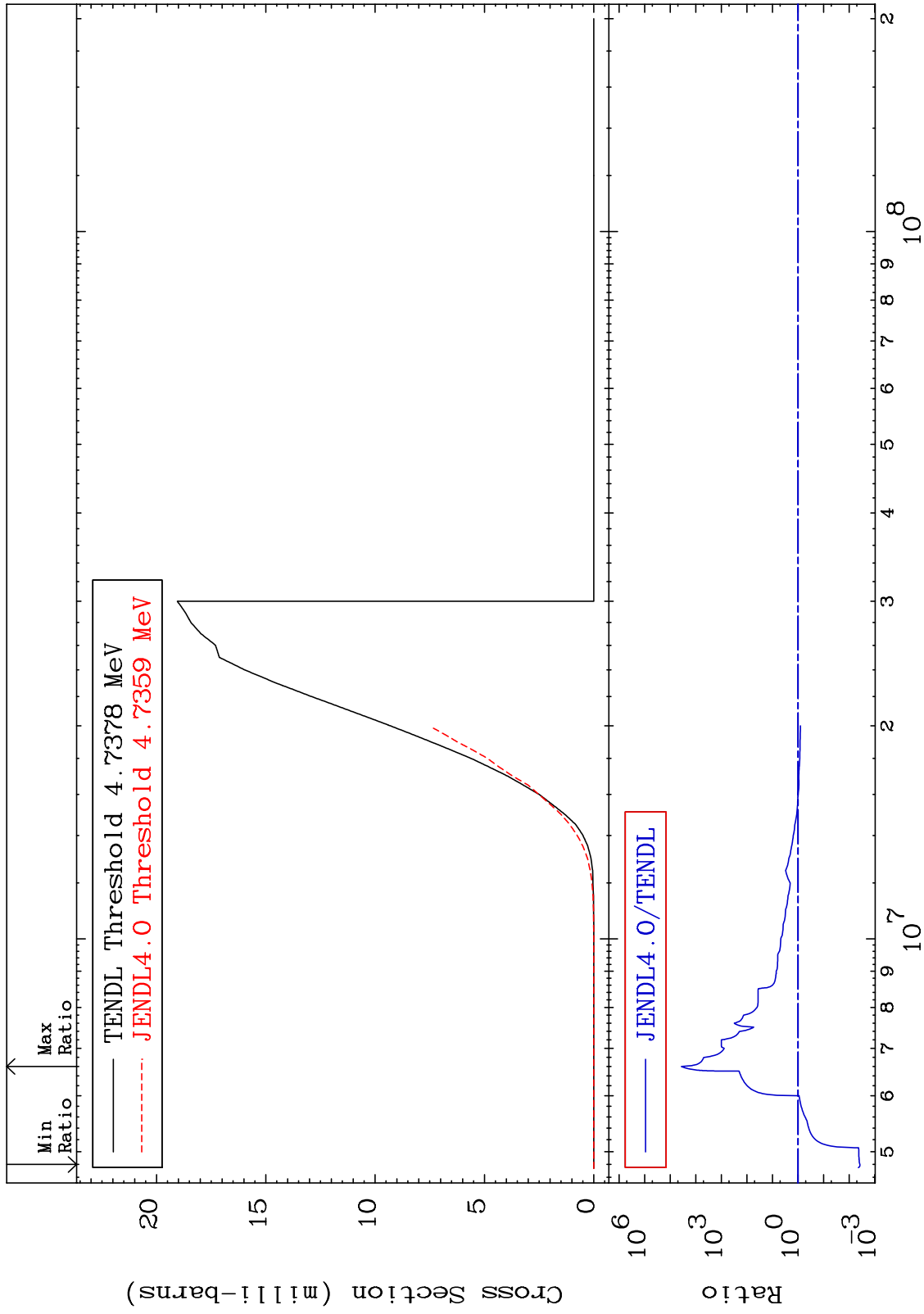
MAT 6631

(n, d)

66-Dy-158

Cross Section

-99.62 To 9999. %



38

Incident Energy (eV)

66-Dy-158

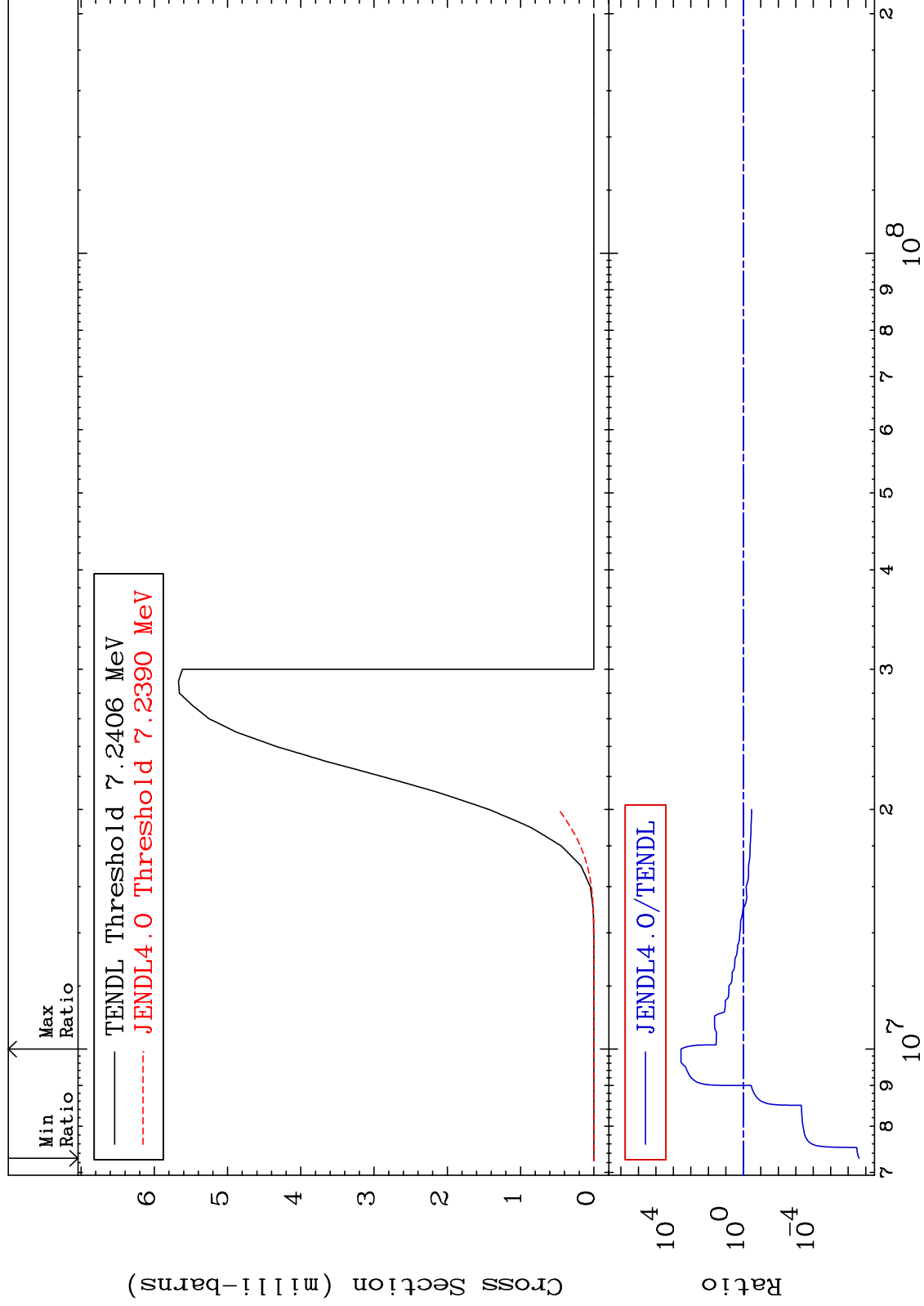
MAT 6631

(n, t)

66-Dy-158

Cross Section

-100.0 To 9999. %



39

Incident Energy (eV)

66-Dy-158



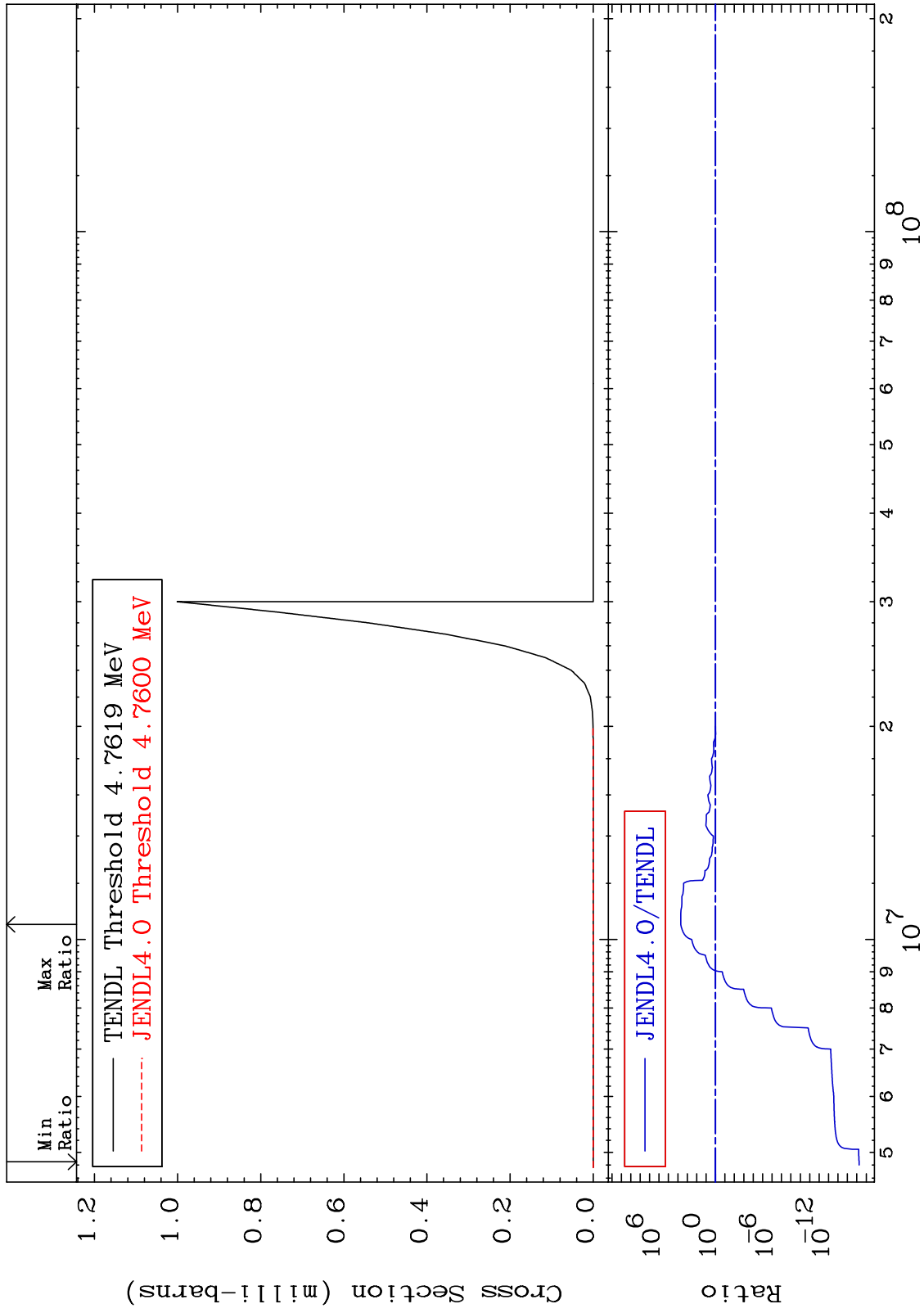
MAT 6631

(n, He-3)

66-Dy-158

Cross Section

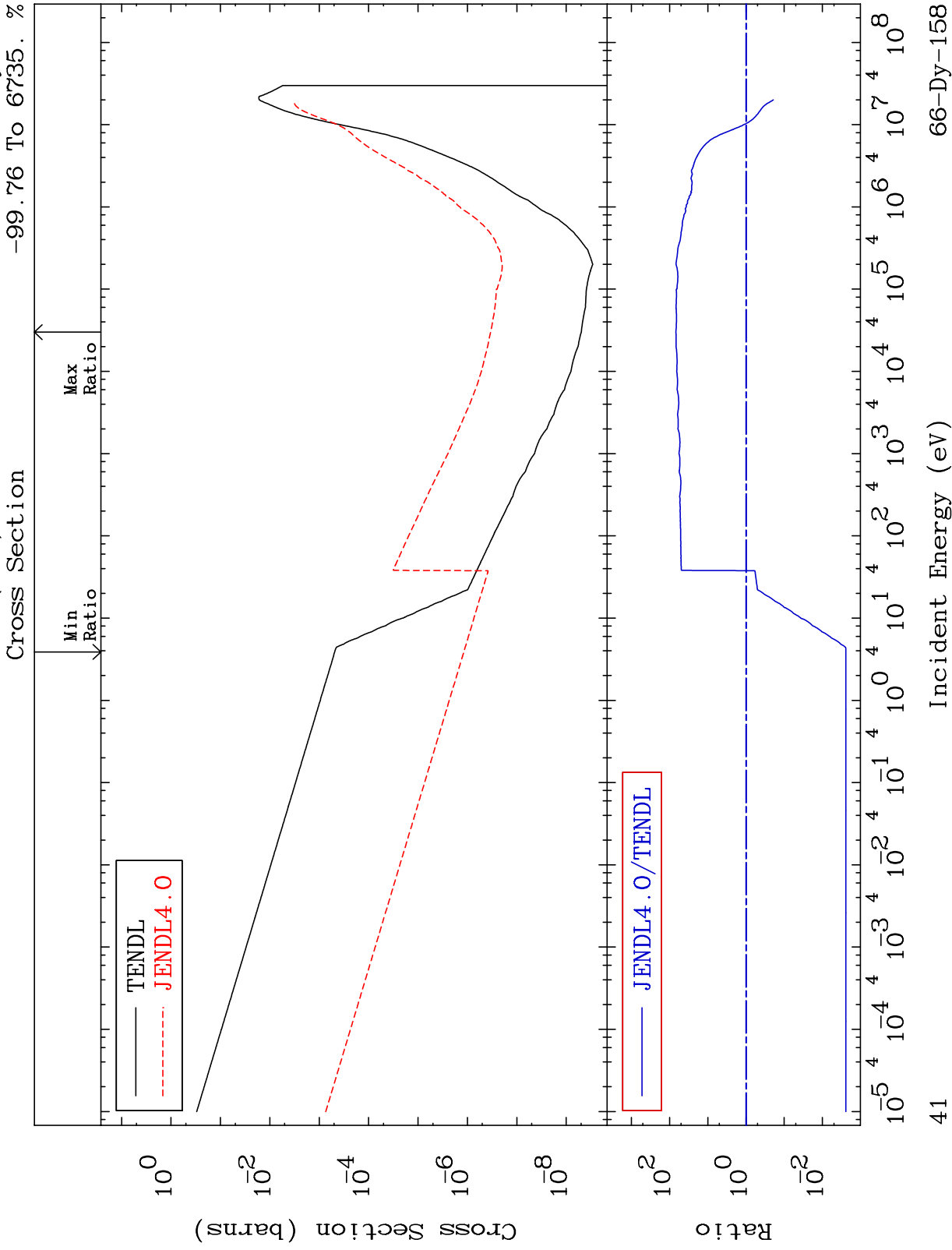
-100.0 To 9999. %



MAT 6631

(n,  $\alpha$ )

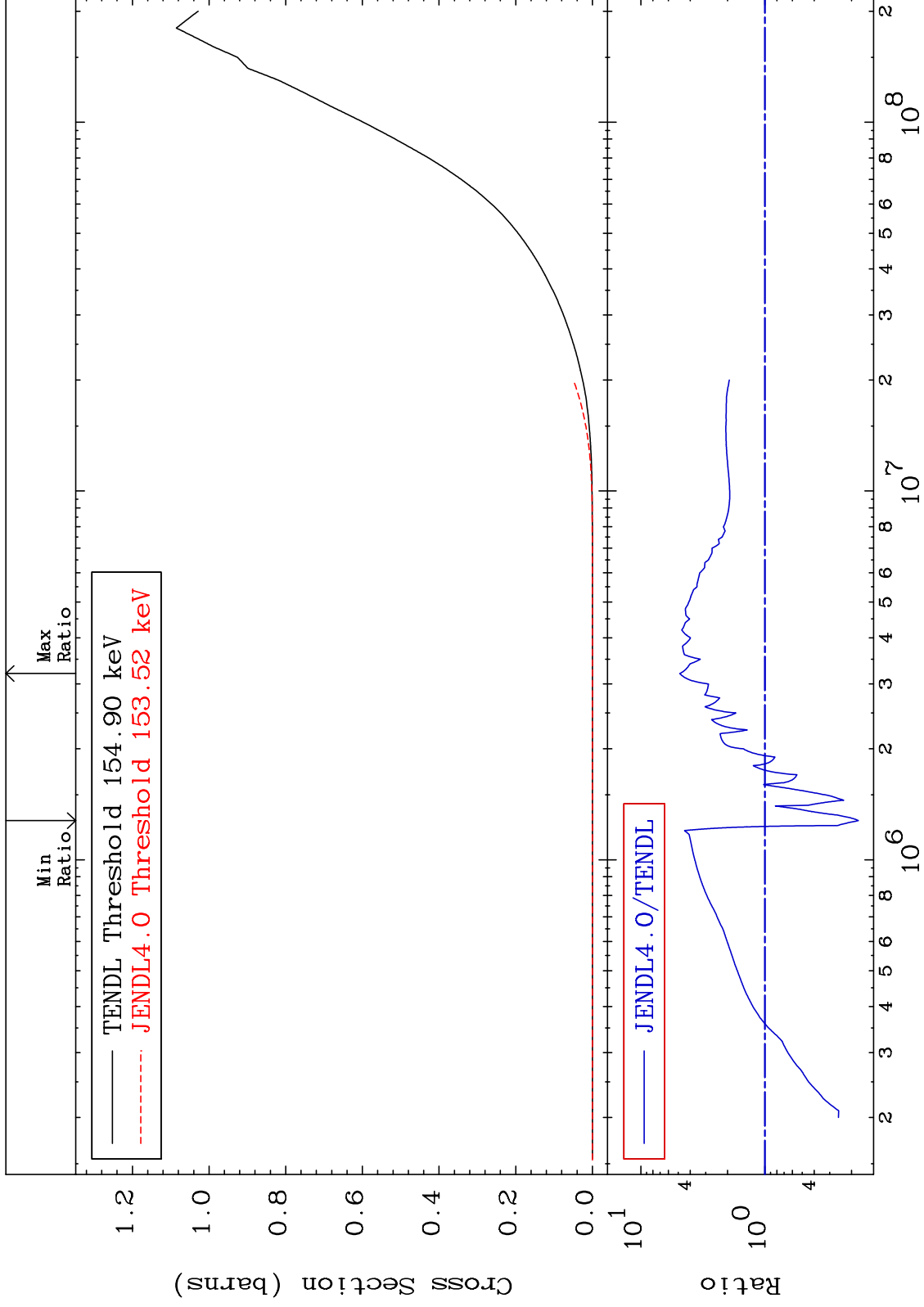
66-Dy-158  
-99.76 To 6735. %



MAT 6631

Hydrogen Production  
Cross Section

66-Dy-158  
-82.34 To 385.7 %



42

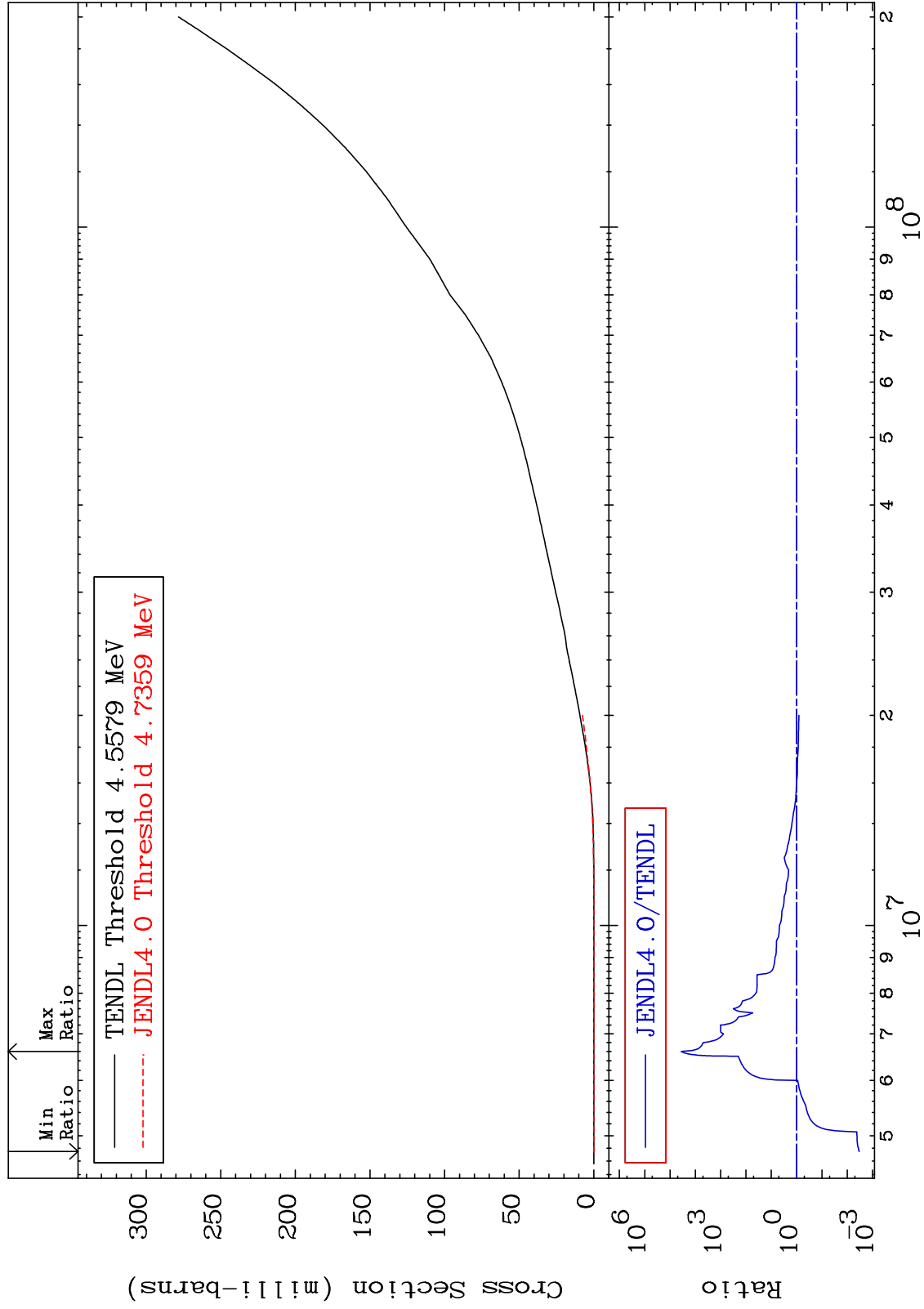
Incident Energy (eV)

66-Dy-158

MAT 6631

Deuterium Production  
Cross Section

66-Dy-158  
-99.67 To 9999. %



43

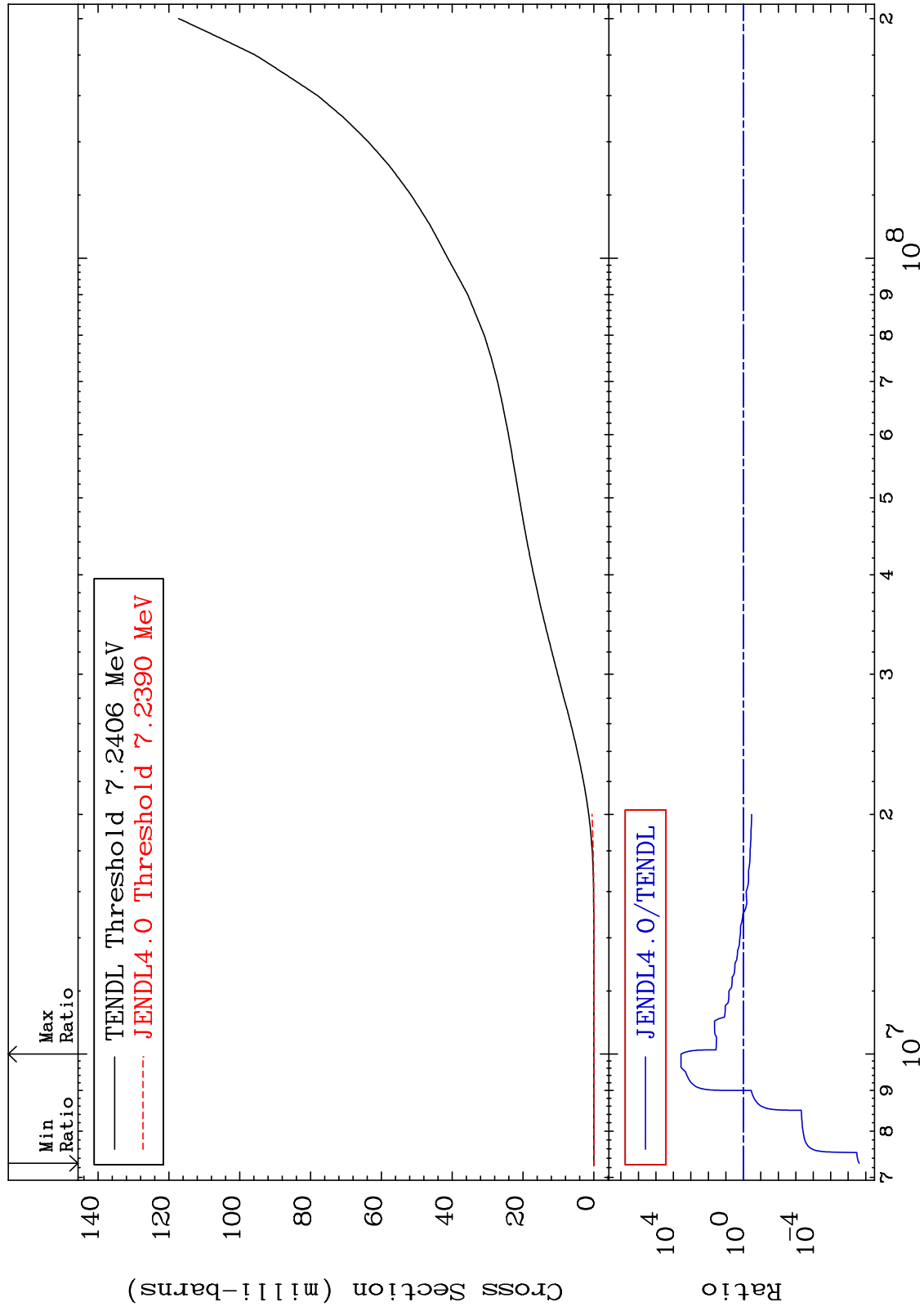
Incident Energy (eV)

66-Dy-158

MAT 6631

Tritium Production  
Cross Section

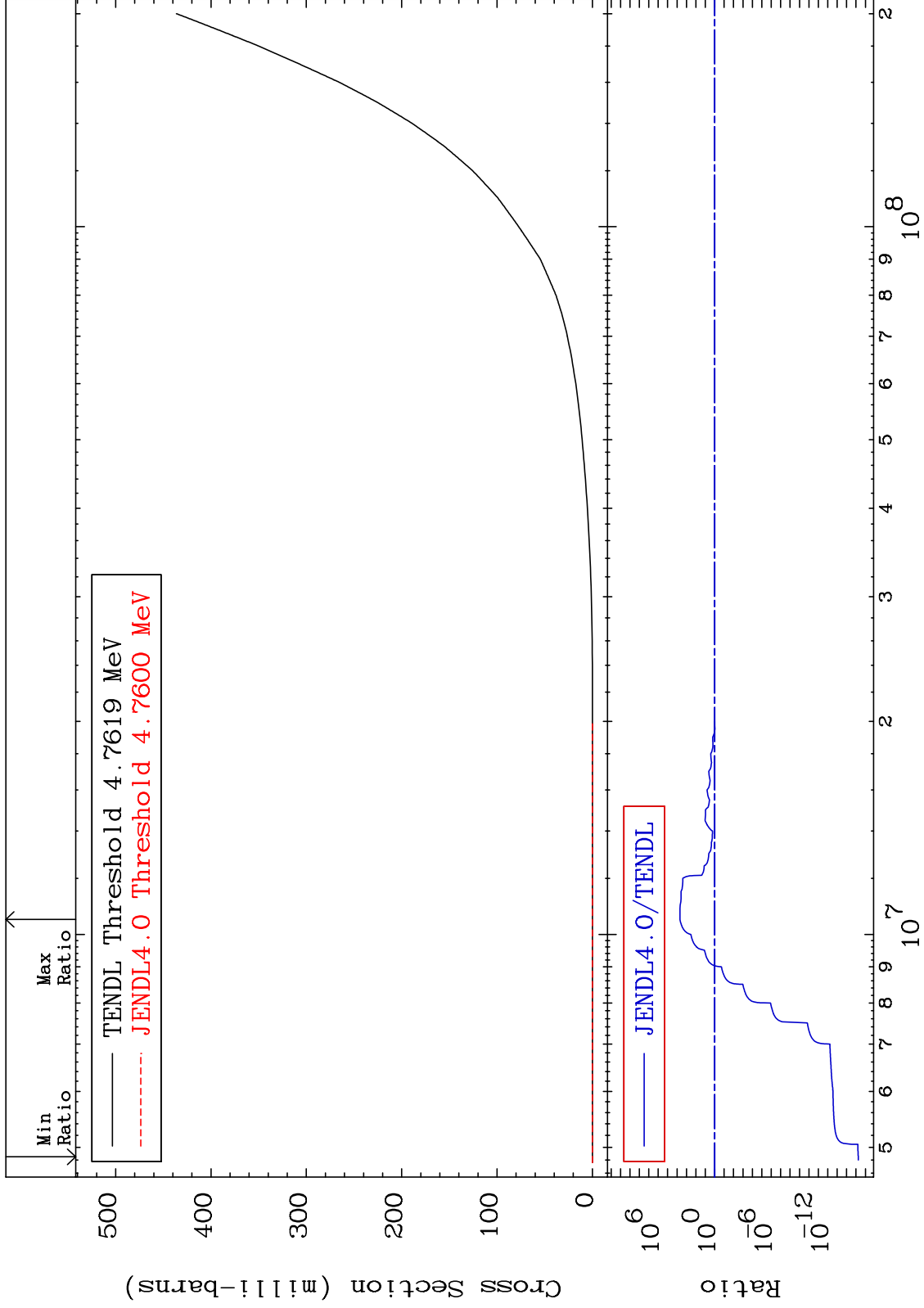
66-Dy-158  
-100.0 To 9999. %



MAT 6631

He-3 Production  
Cross Section

66-Dy-158  
-100.0 To 9999. %



45

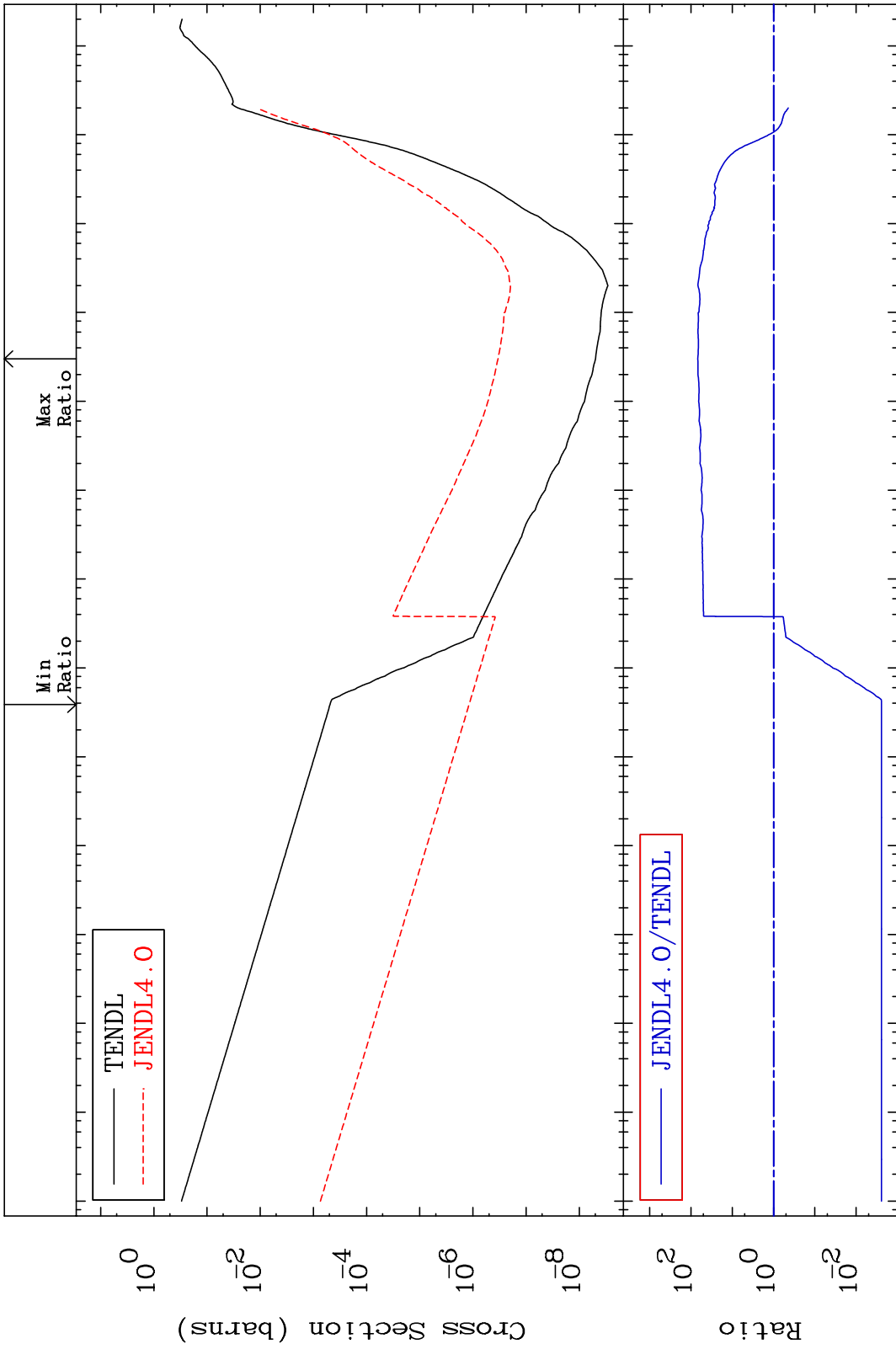
Incident Energy (eV)

66-Dy-158

MAT 6631

He-4 Production  
Cross Section

66-Dy-158  
-99.76 To 6735. %



46

Incident Energy (eV)

66-Dy-158

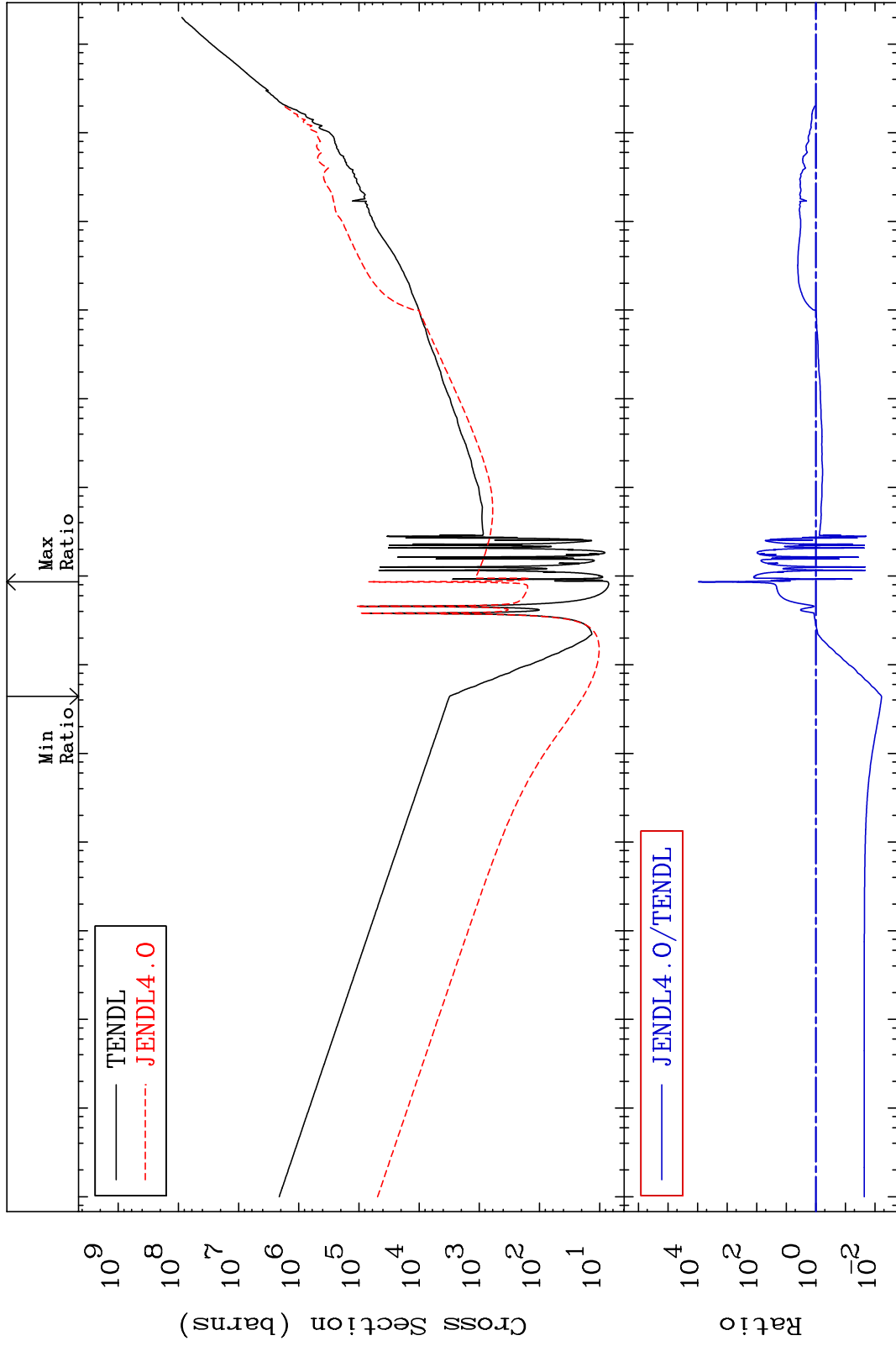
MAT 6631

Kerma total (eV-barns)

66-Dy-158

-99.40 To 9999. %

Cross Section



Incident Energy (eV)

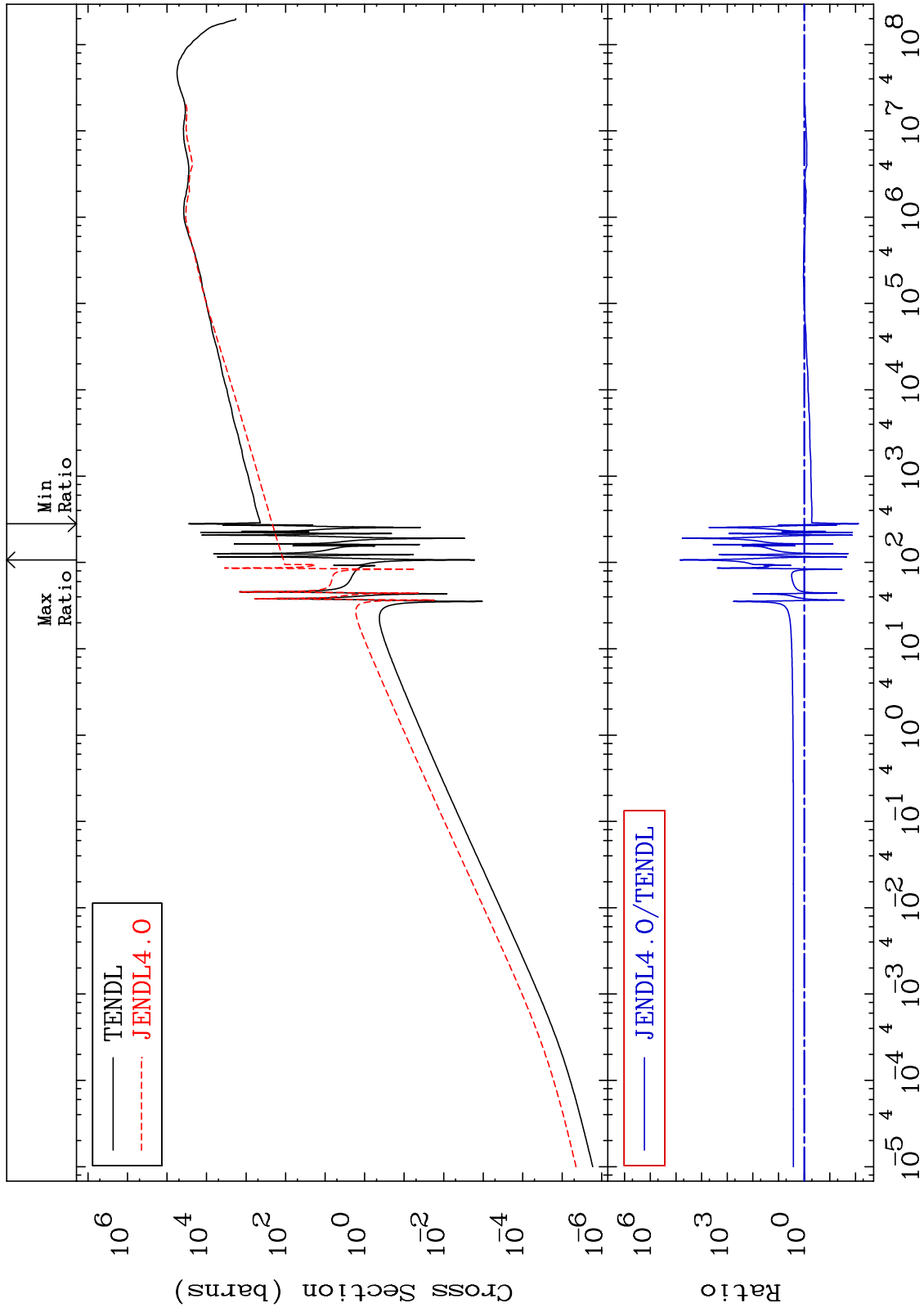
66-Dy-158



MAT 6631

Kerma elastic  
Cross Section

66-Dy-158  
-99.23 To 9999. %



48

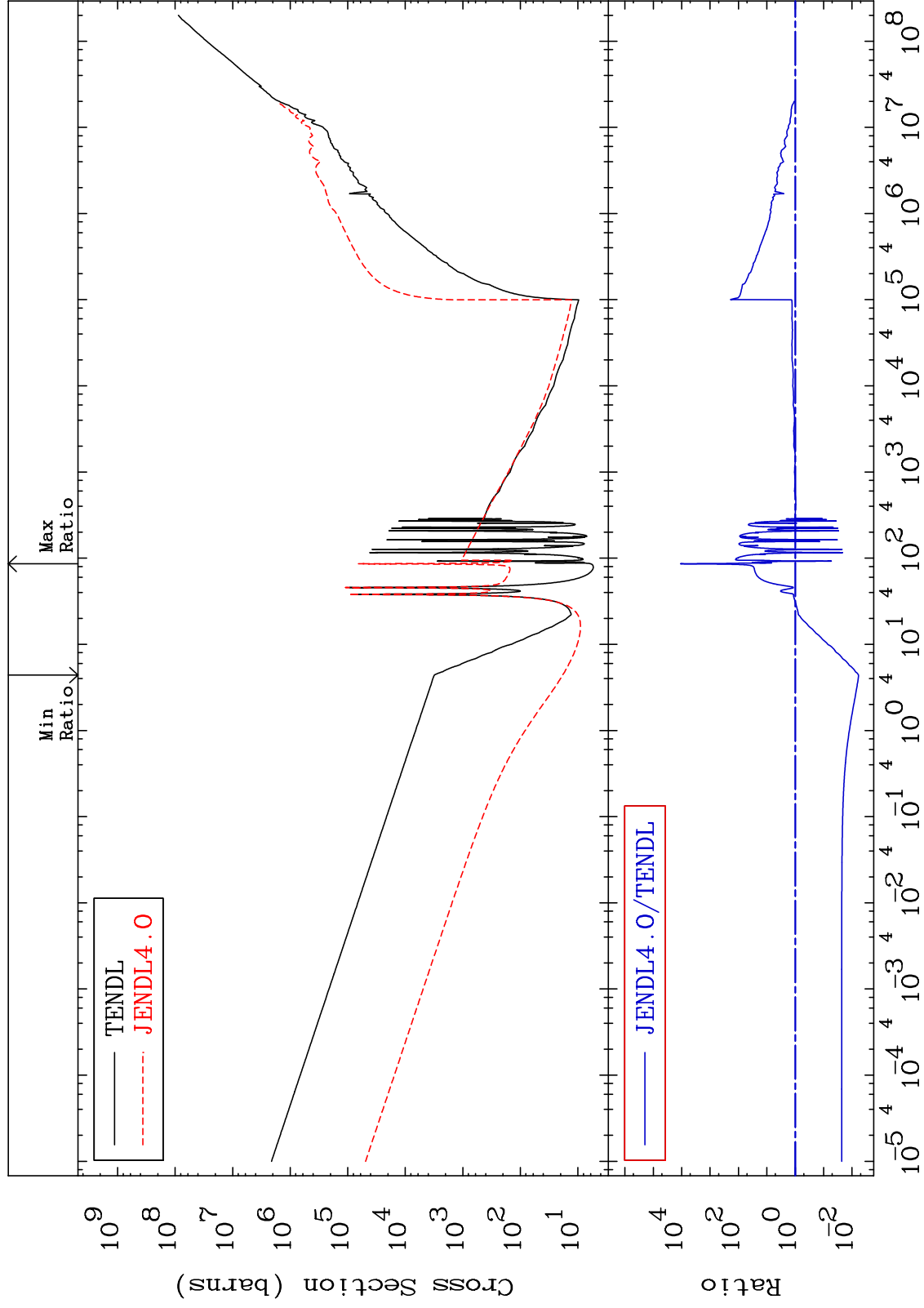
Incident Energy (eV)

66-Dy-158

MAT 6631

Kerma non-elastic (all but mt2)  
Cross Section

66-Dy-158  
-99.41 To 9999. %



49

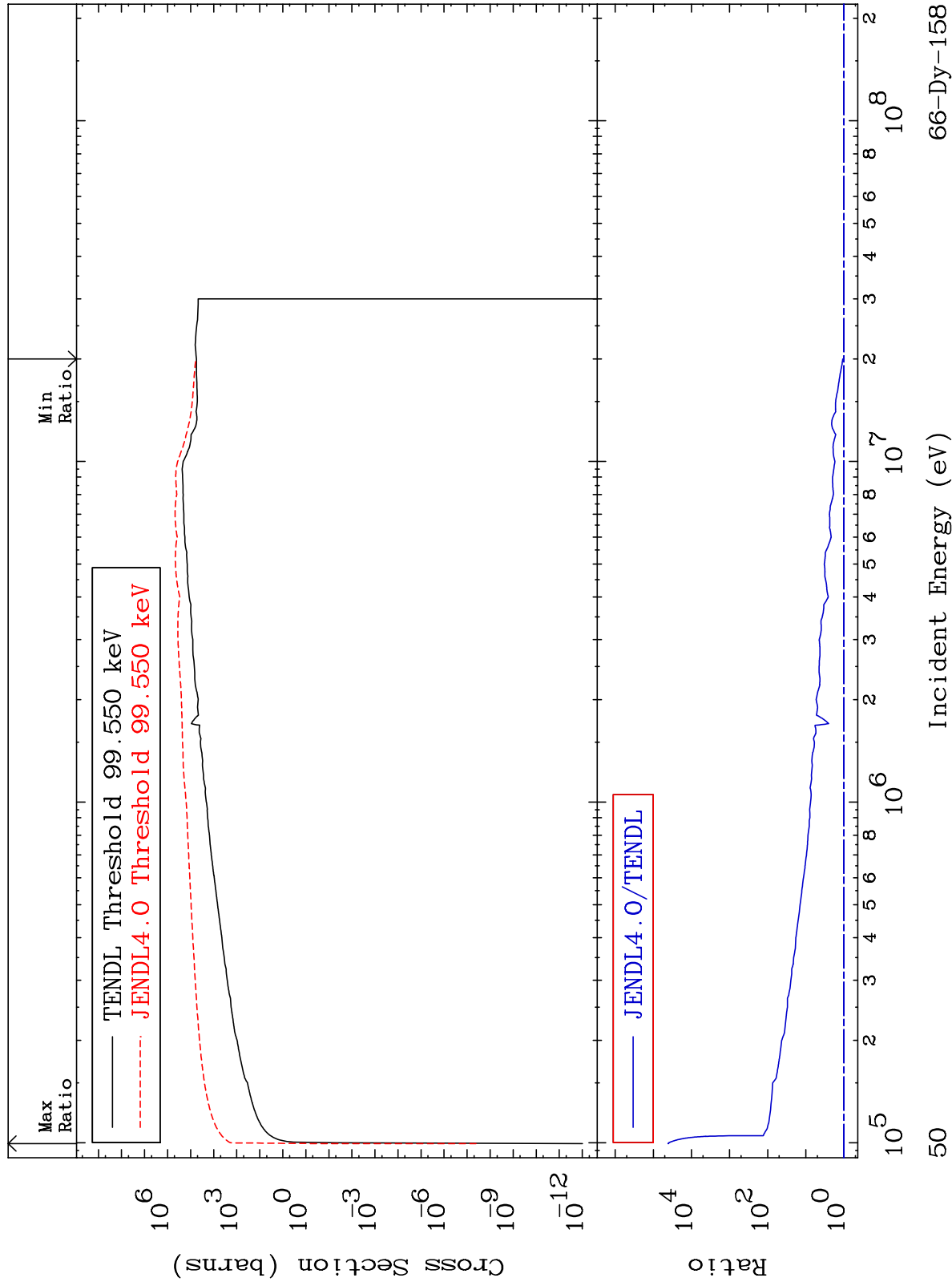
Incident Energy (eV)

66-Dy-158

MAT 6631

Kerma inelastic (mt51-91)  
Cross Section

66-Dy-158  
6.600 To 9999. %

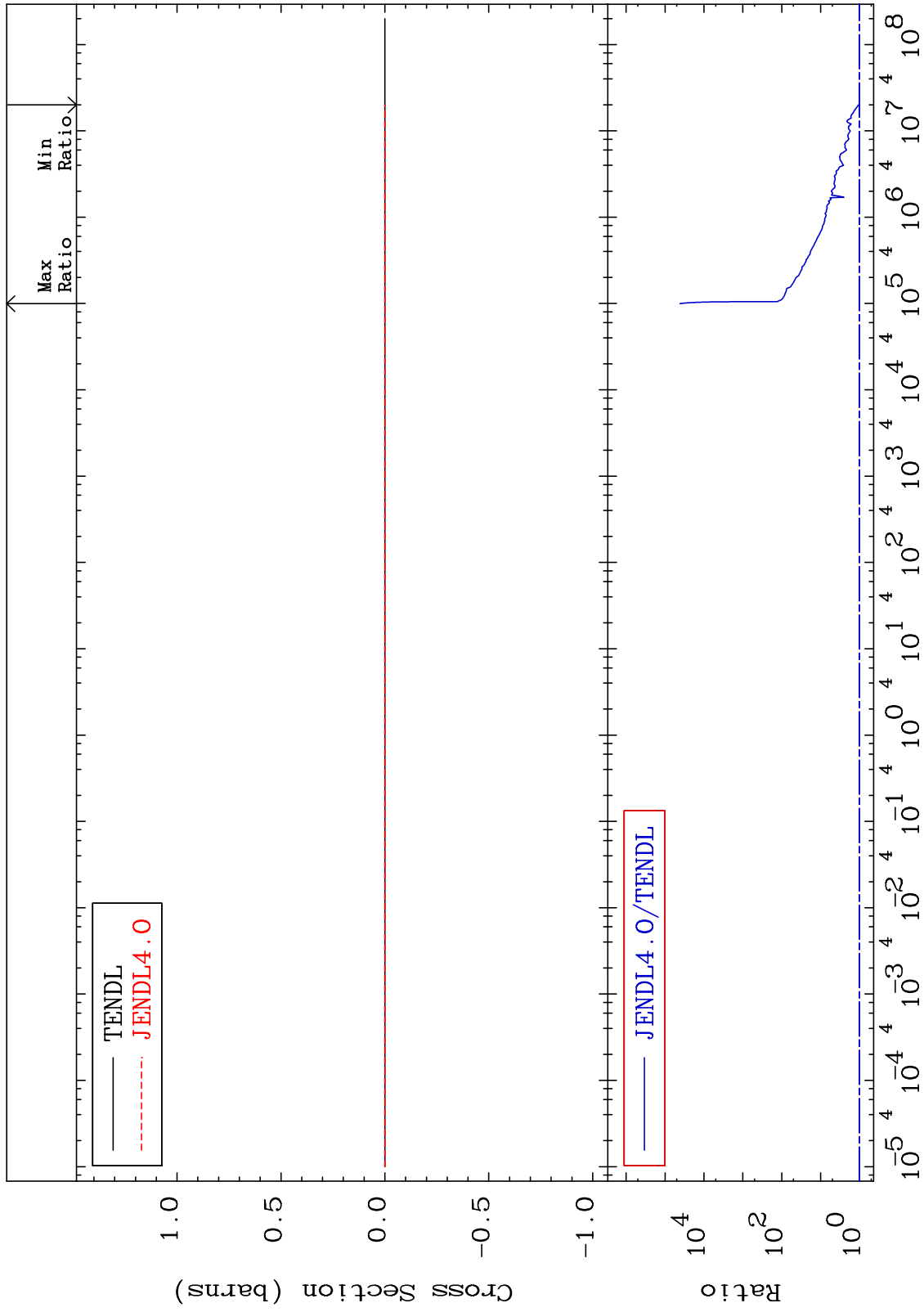


50

MAT 6631

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

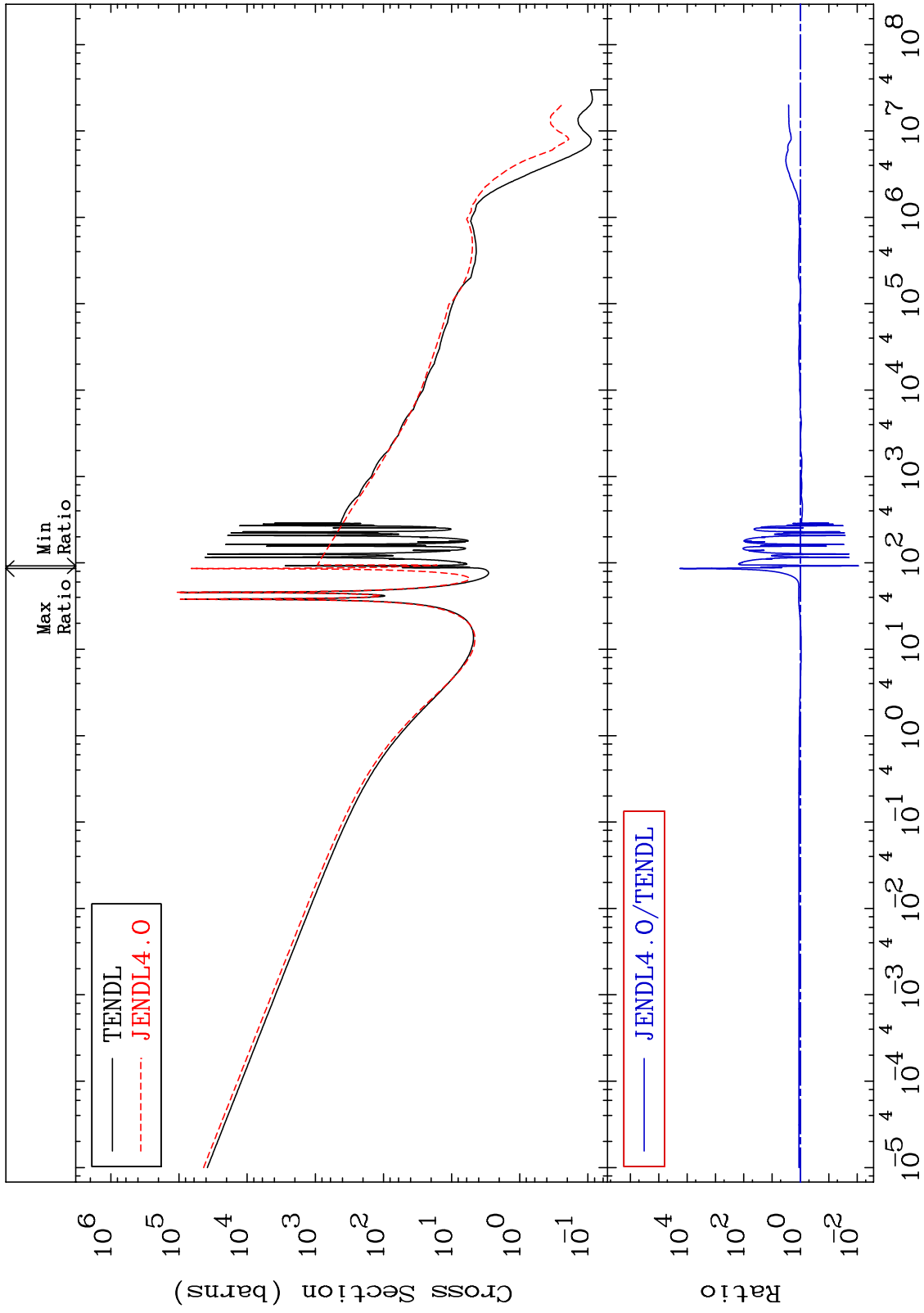
66-Dy-158  
6.600 To 9999. %



MAT 6631

Kerma capture (mt102)  
Cross Section

66-Dy-158  
-99.09 To 9999. %



52

Incident Energy (eV)

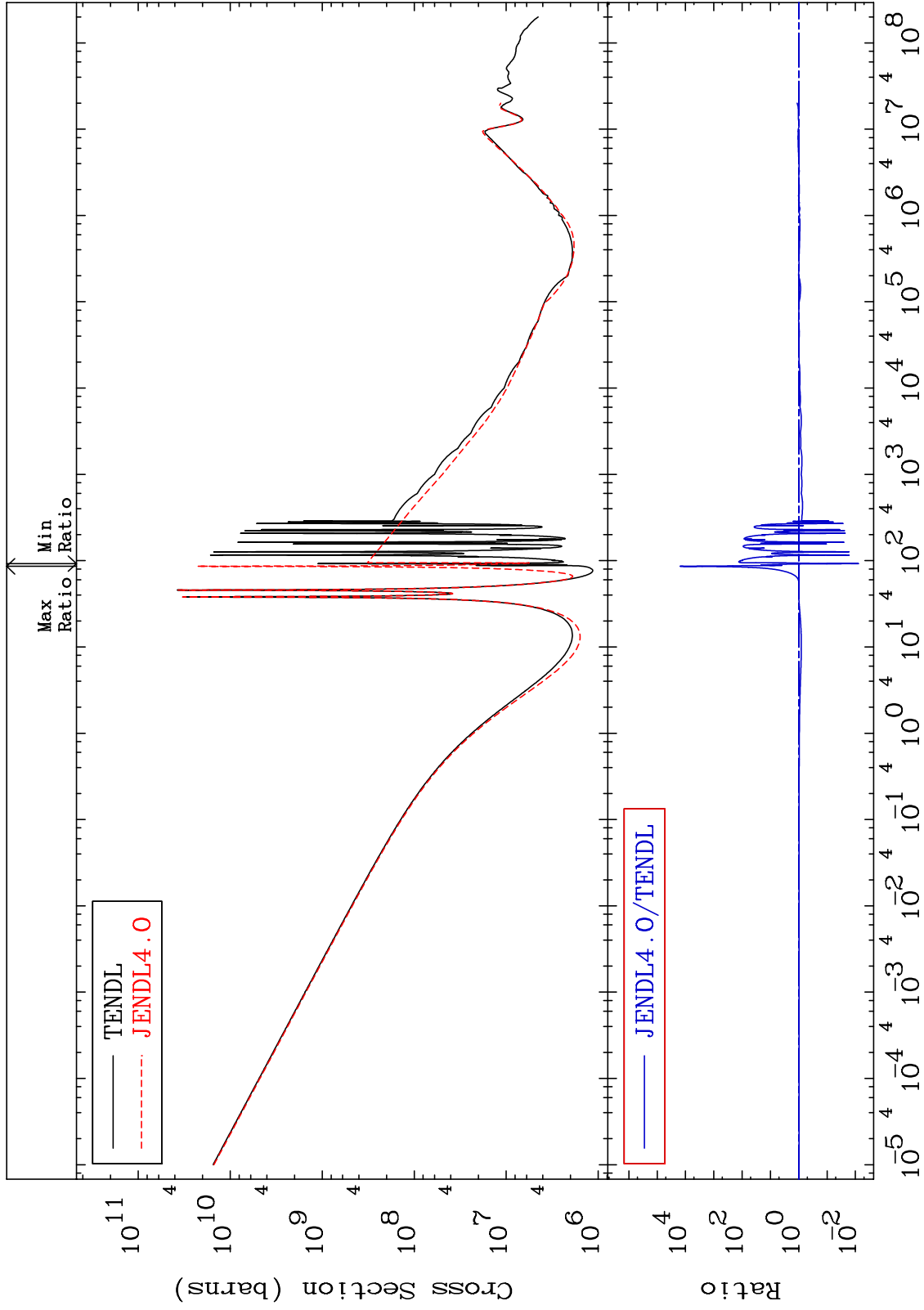
66-Dy-158

MAT 6631

Total photon (eV-barns)  
Cross Section

66-Dy-158

-99.22 To 9999. %



53

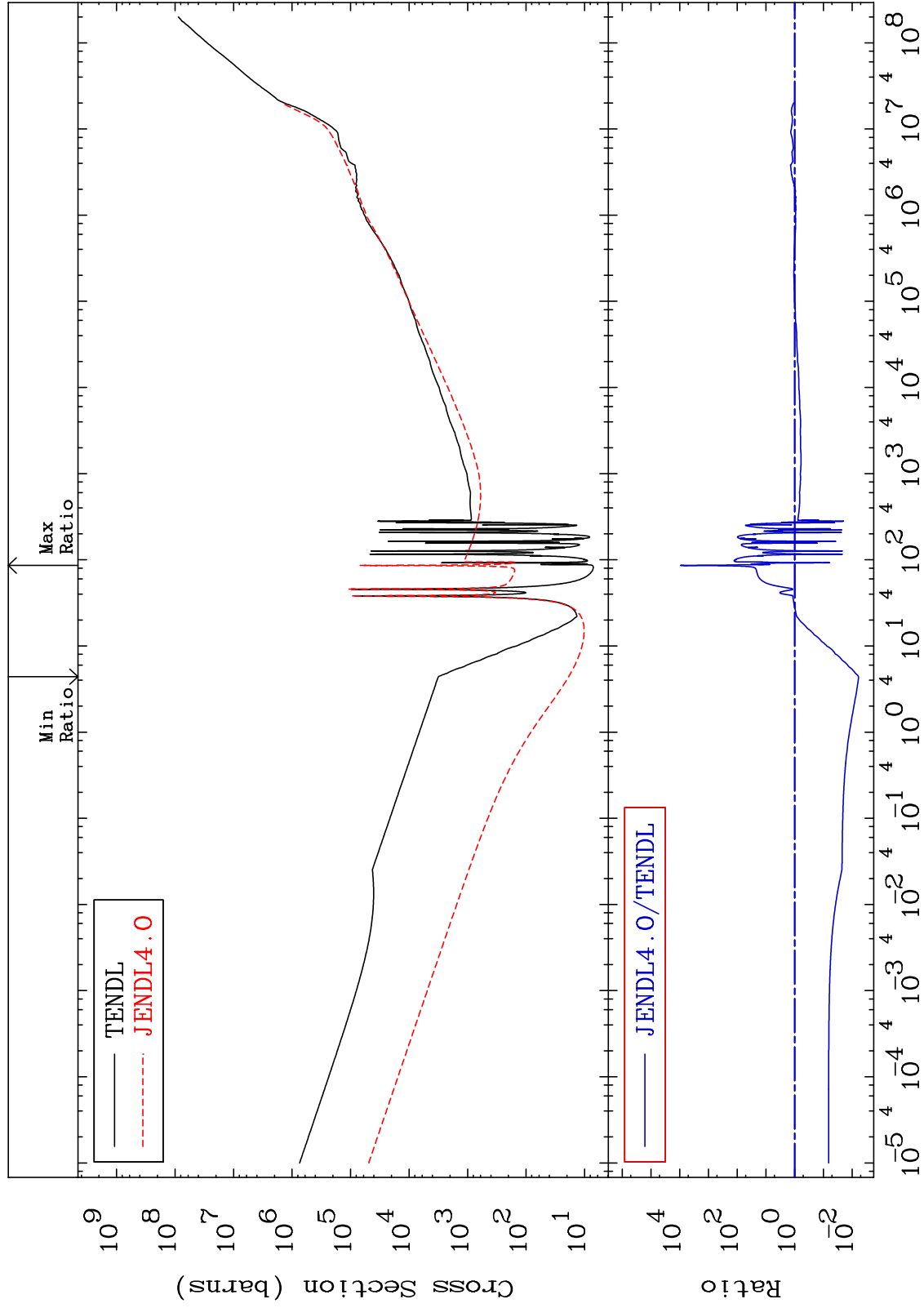
Incident Energy (eV)

66-Dy-158

MAT 6631

Total kinematic kerma (high limit)  
Cross Section

66-Dy-158  
-99.40 To 9999. %



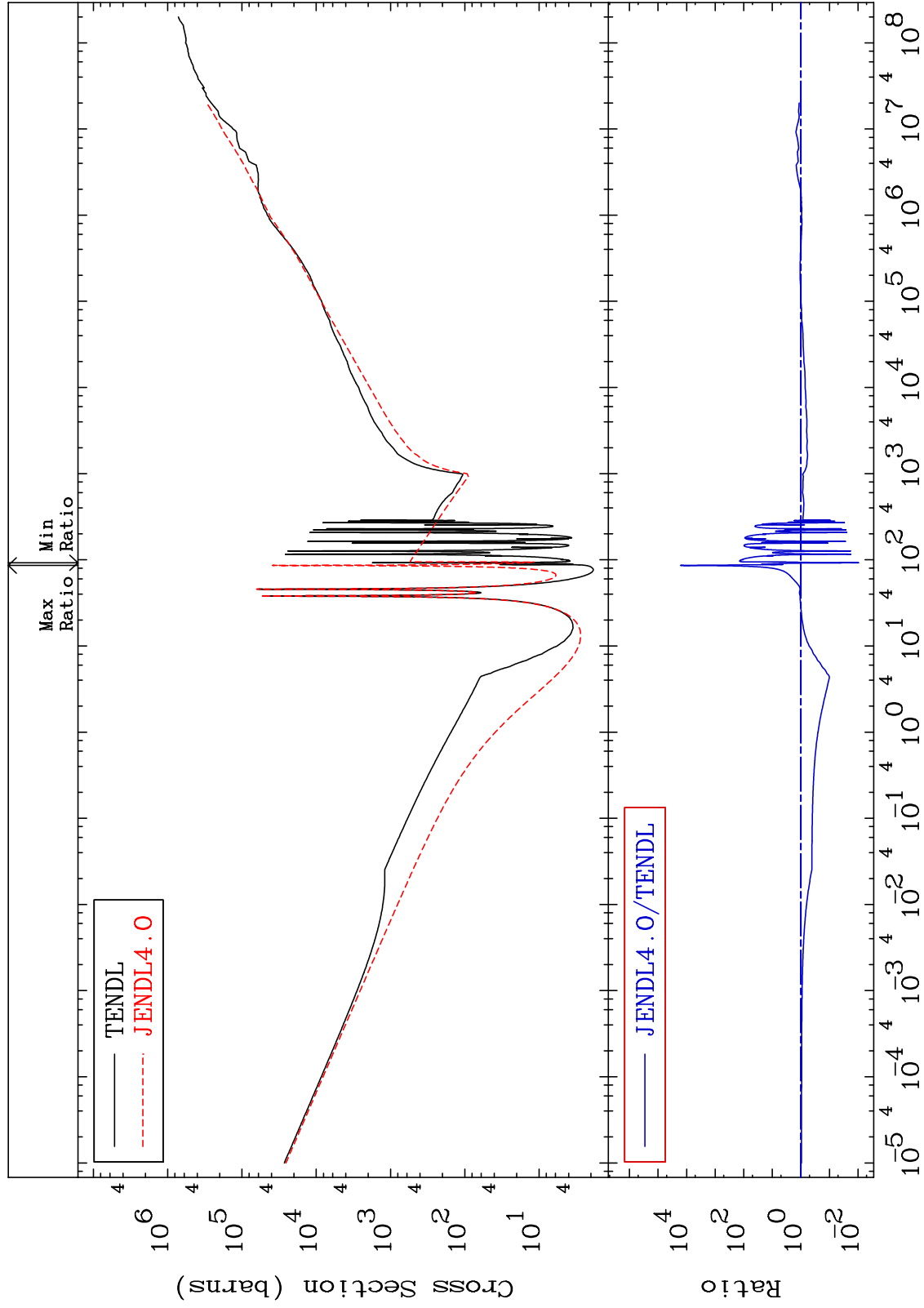
MAT 6631

Dpa total (eV-barns)

66-Dy-158

-99.04 To 9999. %

Cross Section



55

Incident Energy (eV)

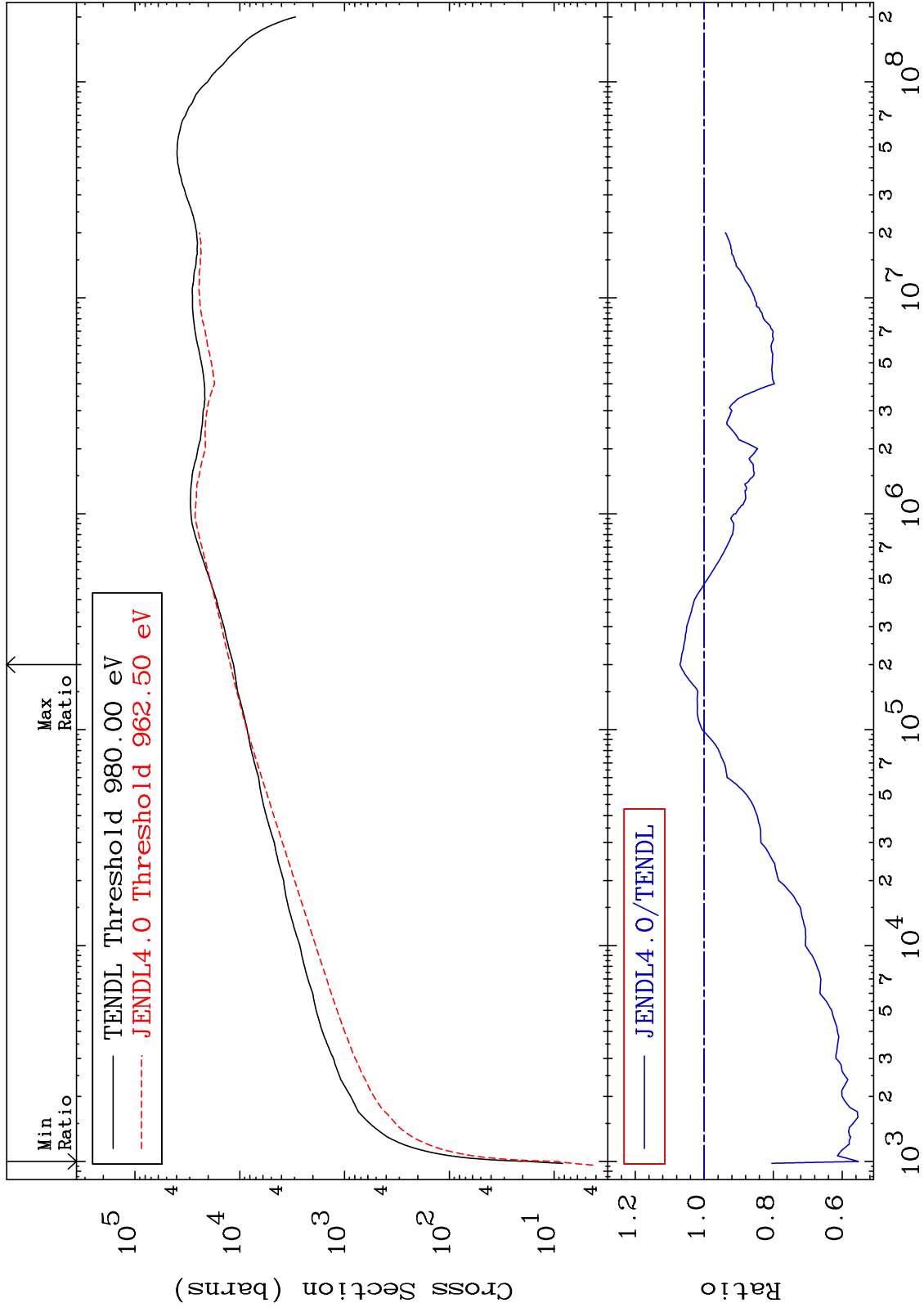
66-Dy-158



MAT 6631

Dpa elastic (mt2)  
Cross Section

66-Dy-158  
-44.68 To 7.013 %



56

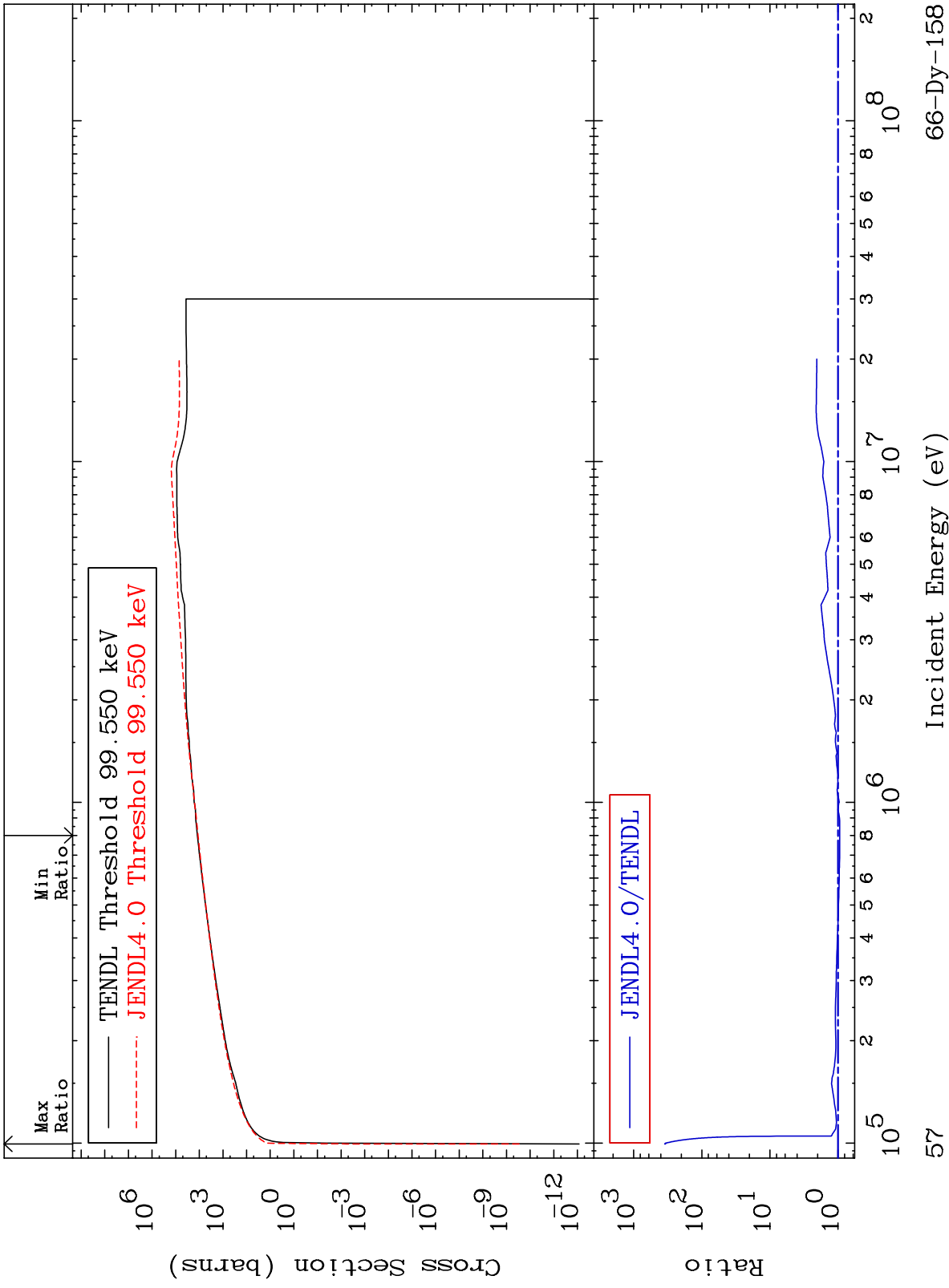
Incident Energy (eV)

66-Dy-158

MAT 6631

Dpa inelastic (mt51-91)  
Cross Section

66-Dy-158  
-5.440 To 9999. %



57

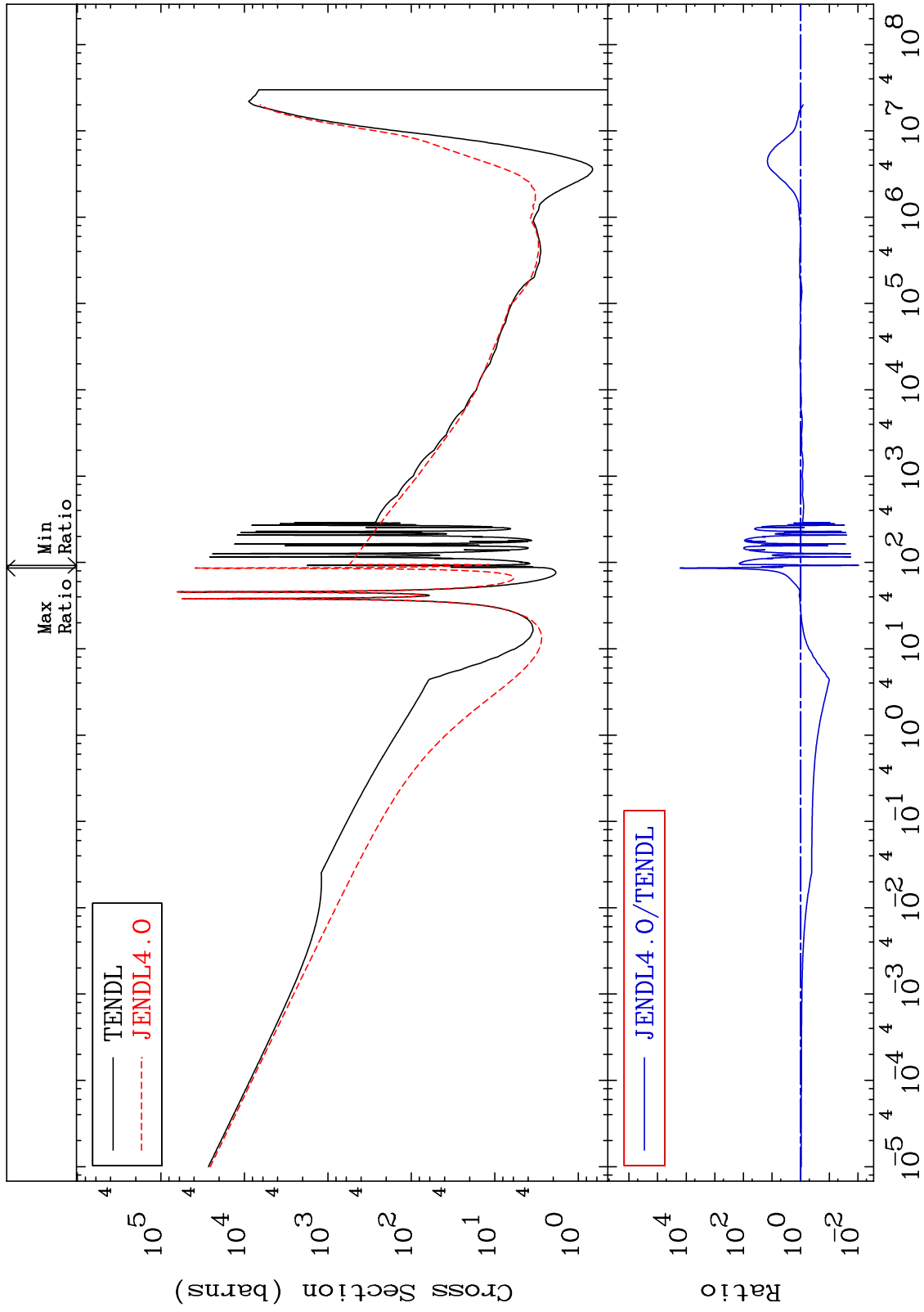
Incident Energy (eV)

66-Dy-158

MAT 6631

Dpa disappearance (mt102 -120)  
Cross Section

66-Dy-158  
-99.04 To 9999. %



58

Incident Energy (eV)

66-Dy-158

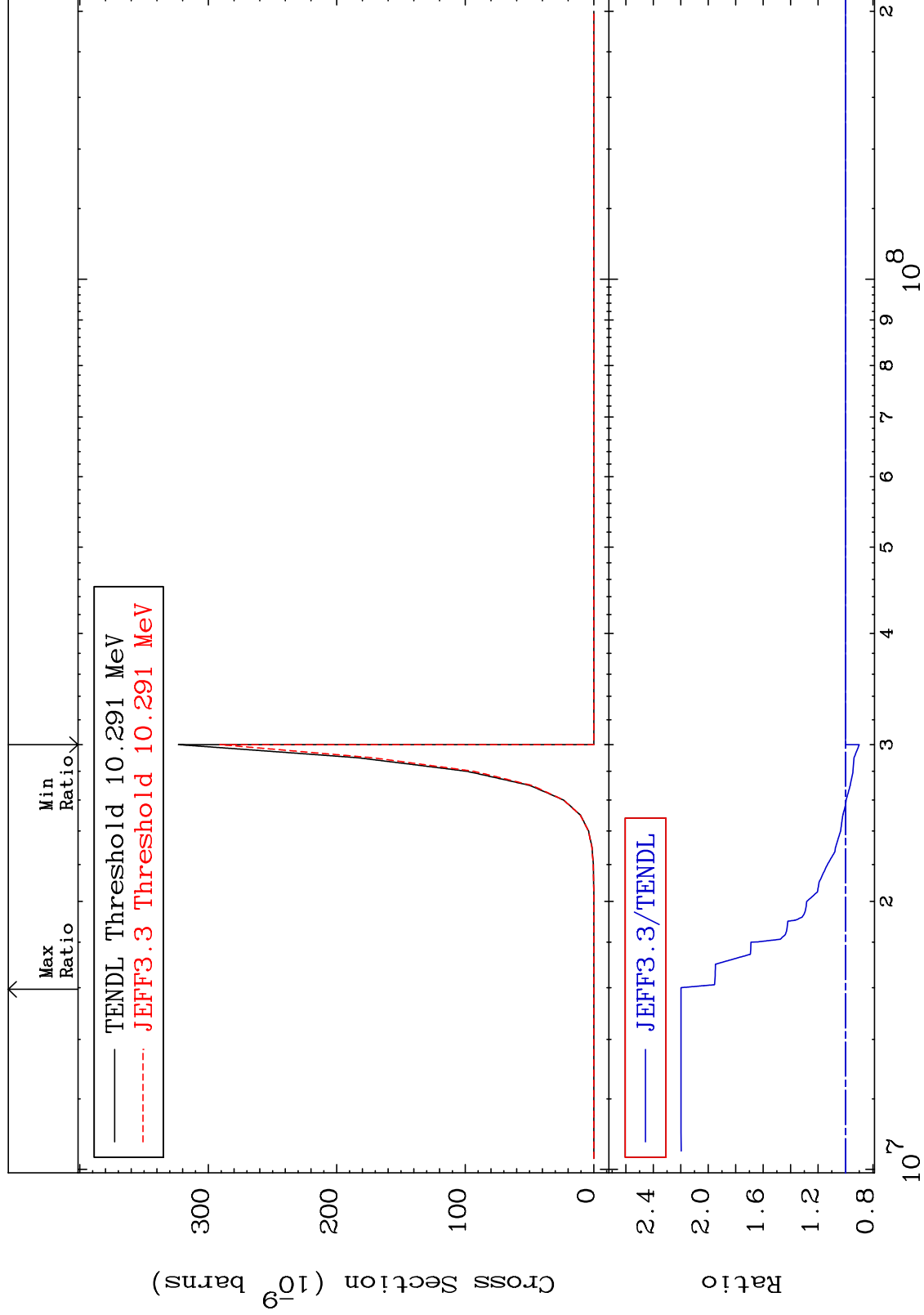
MAT 6631

(n,p) d

66-Dy-158

Cross Section

-9.974 To 119.8 %



59

Incident Energy (eV)

66-Dy-158

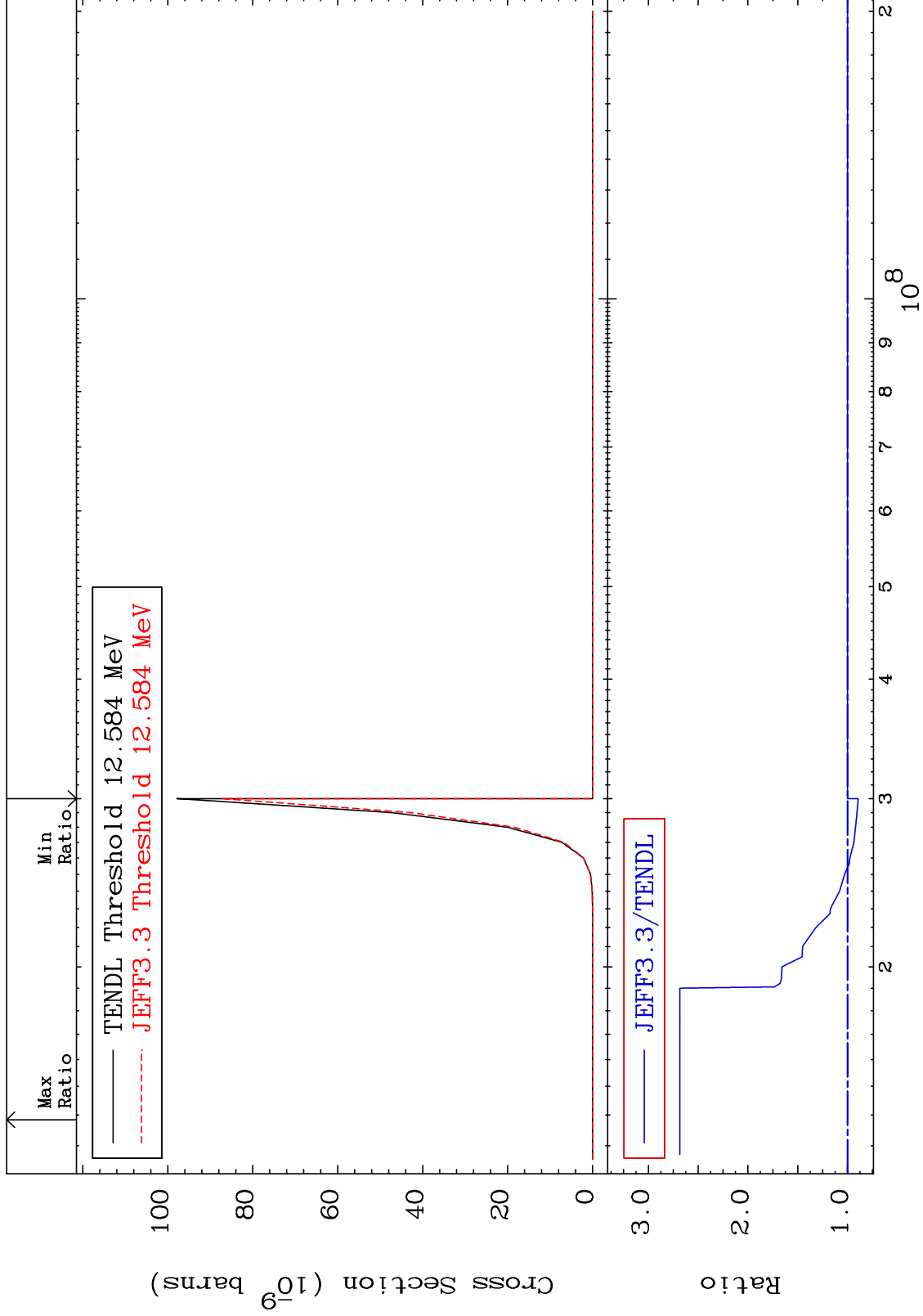
MAT 6631

(n,p) t

66-Dy-158

Cross Section

-10.81 To 168.4 %



60

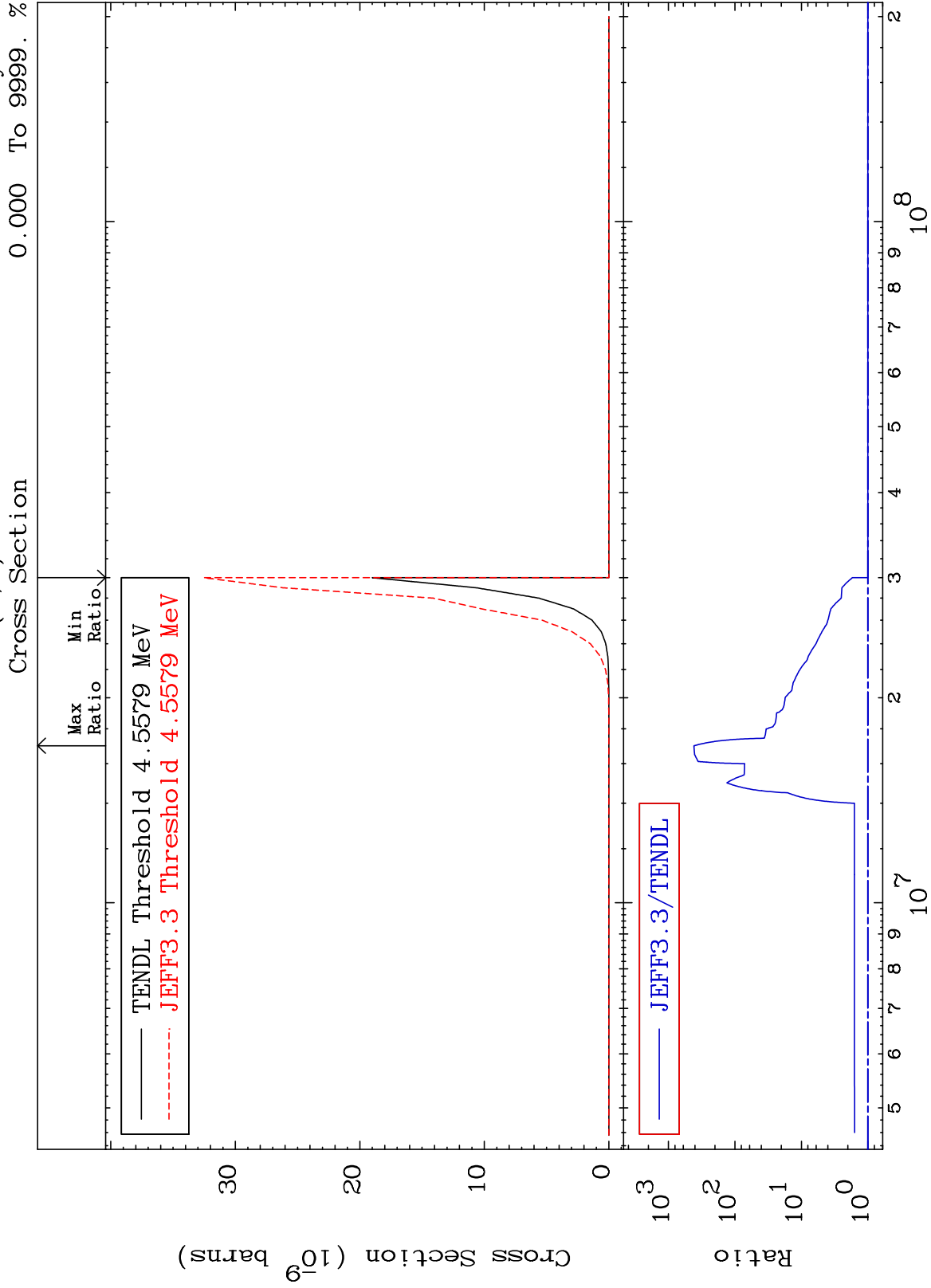
Incident Energy (eV)

66-Dy-158

MAT 6631

(n,d)  $\alpha$

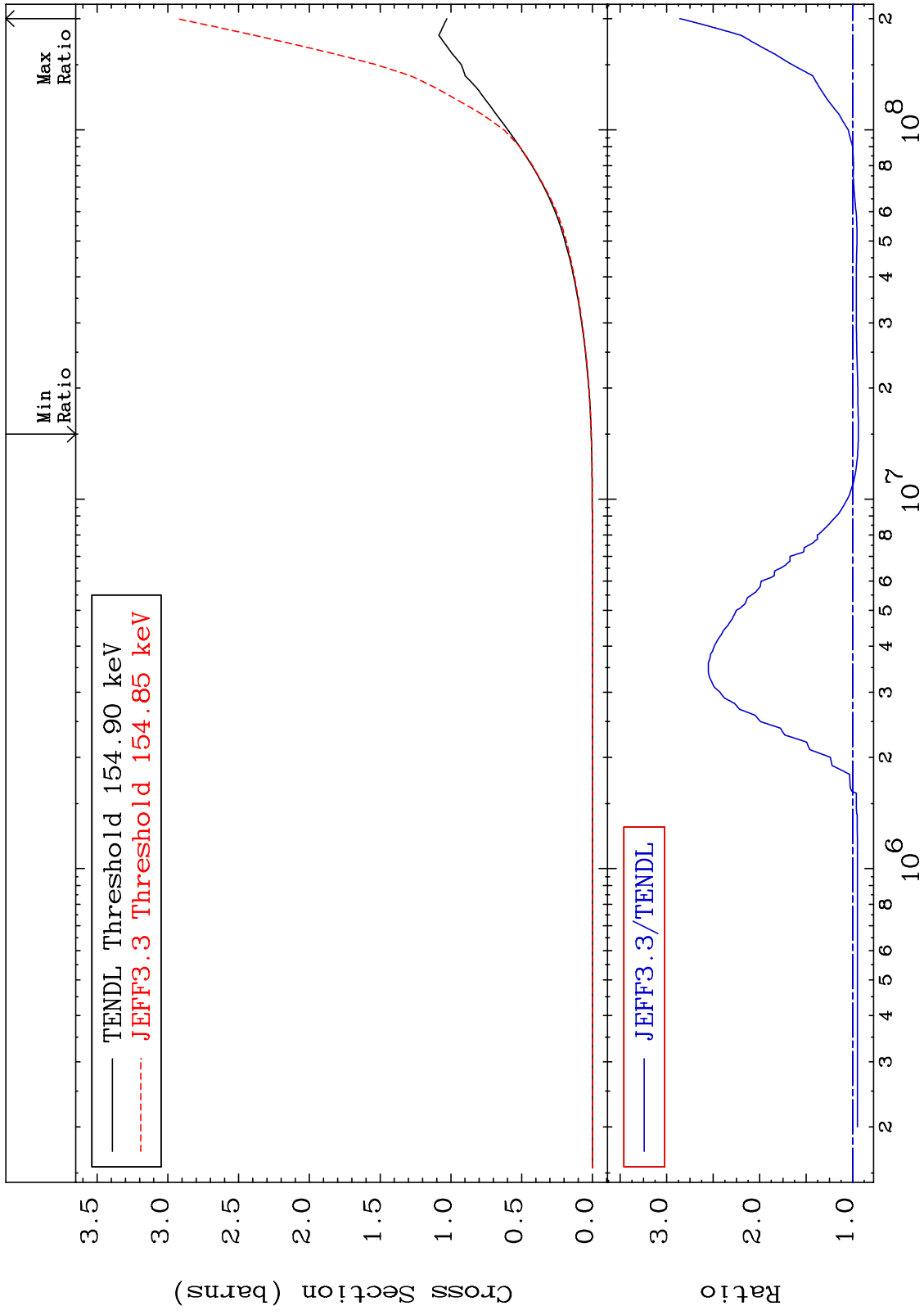
66-Dy-158  
To 9999. %  
0.000



MAT 6631

Hydrogen Production  
Cross Section

66-Dy-158  
-6.143 To 185.9 %



62

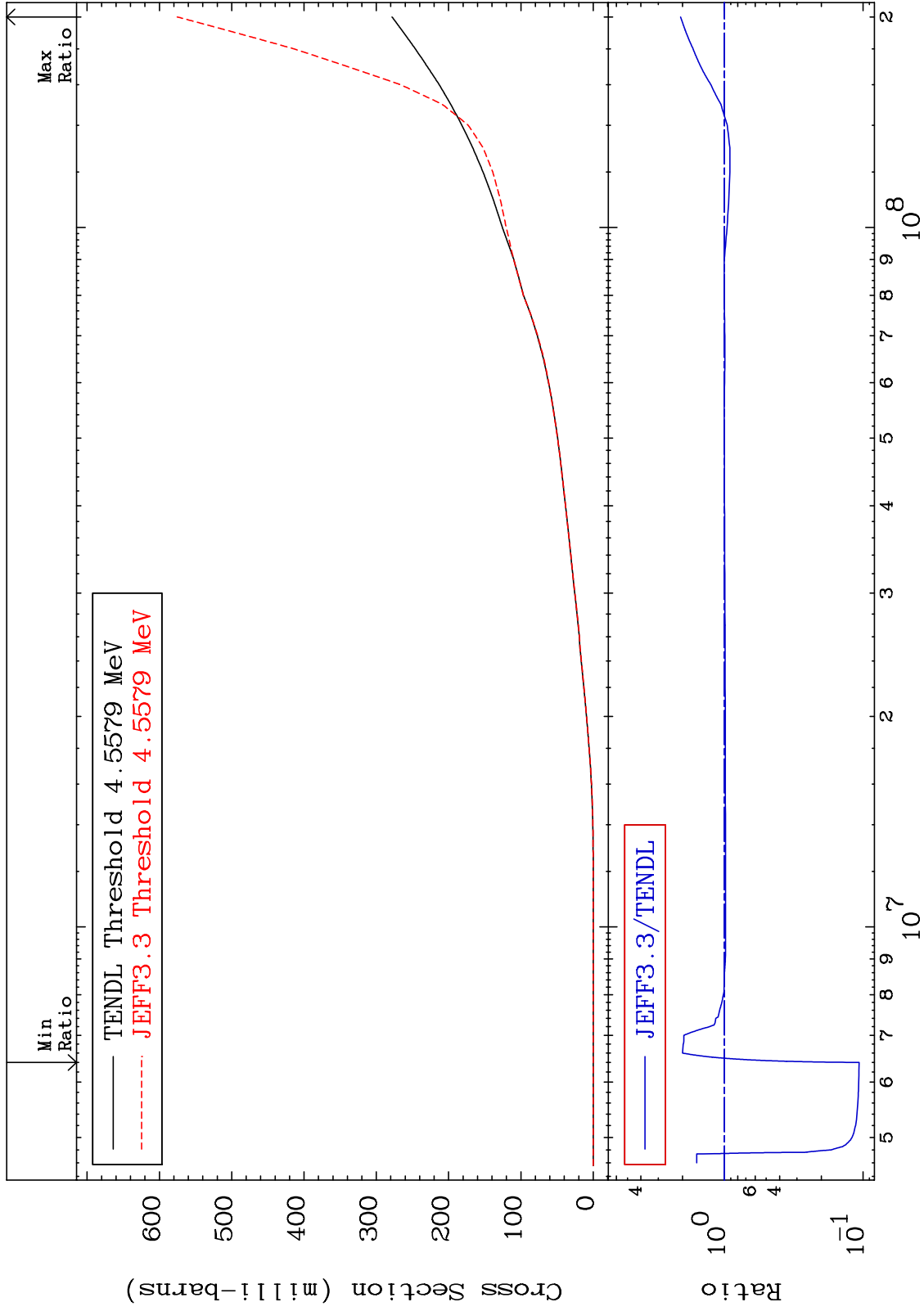
Incident Energy (eV)

66-Dy-158

MAT 6631

Deuterium Production  
Cross Section

66-Dy-158  
-89.32 To 106.8 %



63

Incident Energy (eV)

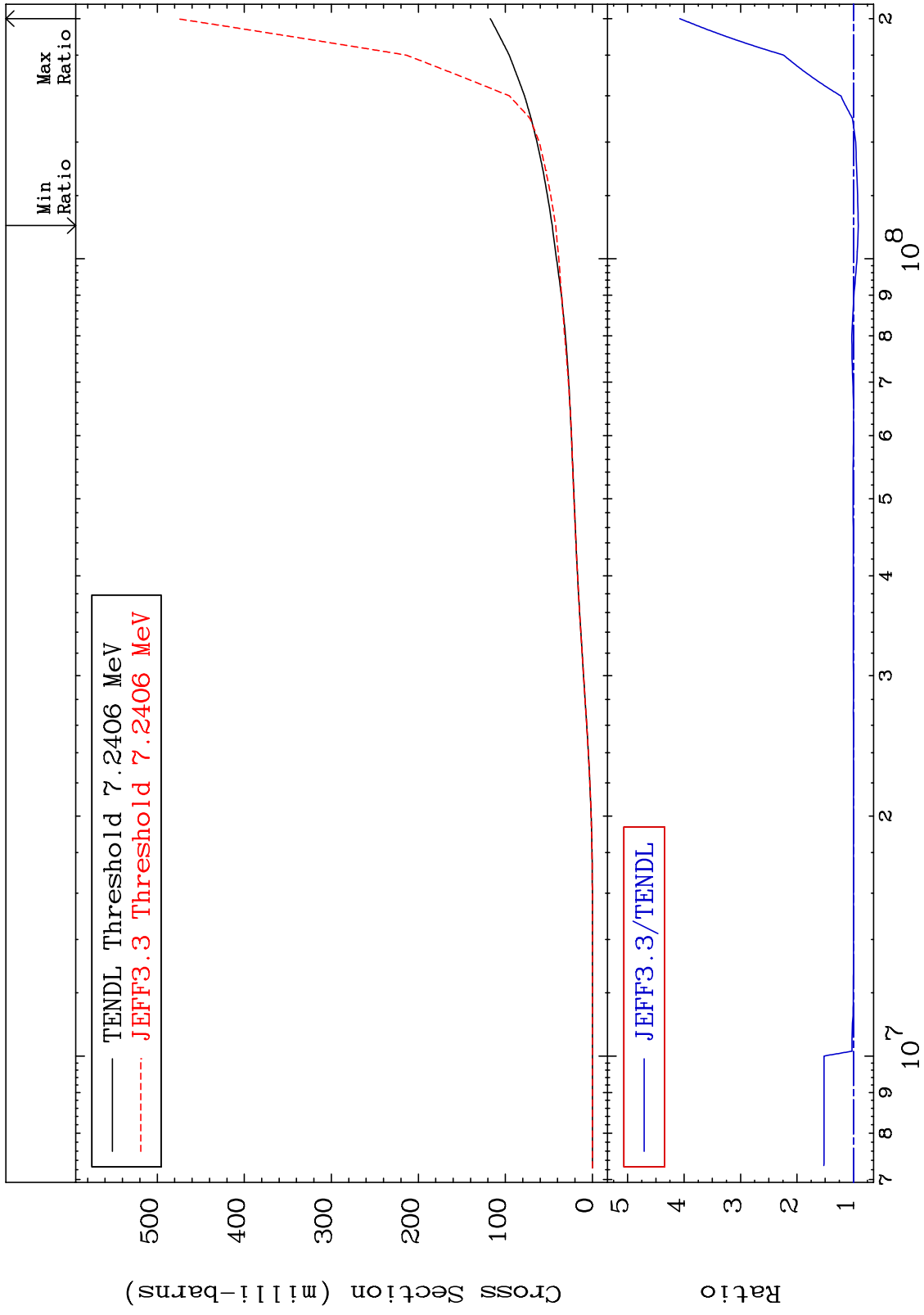
66-Dy-158



MAT 6631

Tritium Production  
Cross Section

66-Dy-158  
-8.672 To 307.6 %



64

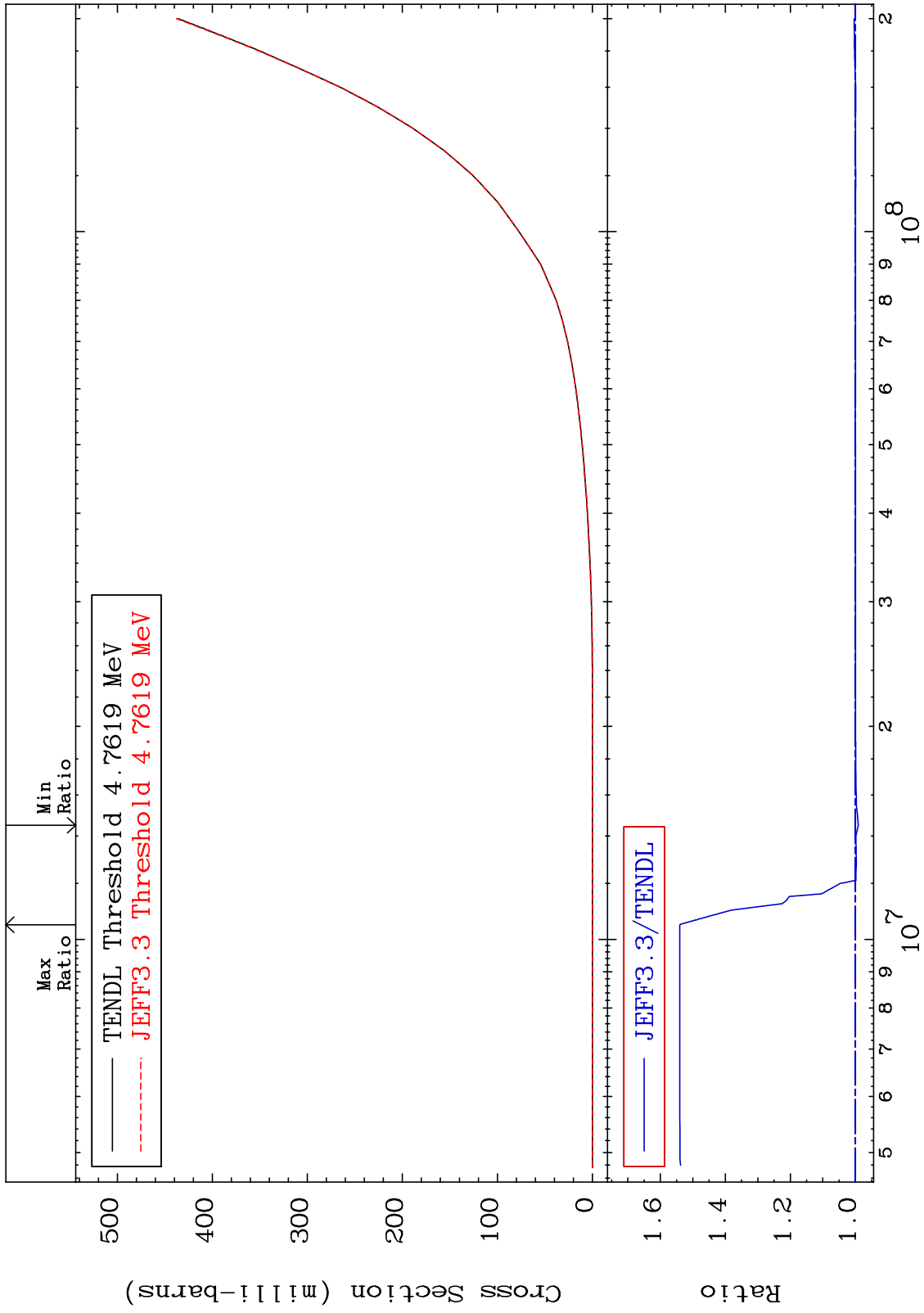
Incident Energy (eV)

66-Dy-158

MAT 6631

He-3 Production  
Cross Section

66-Dy-158  
-0.930 To 54.01 %



65

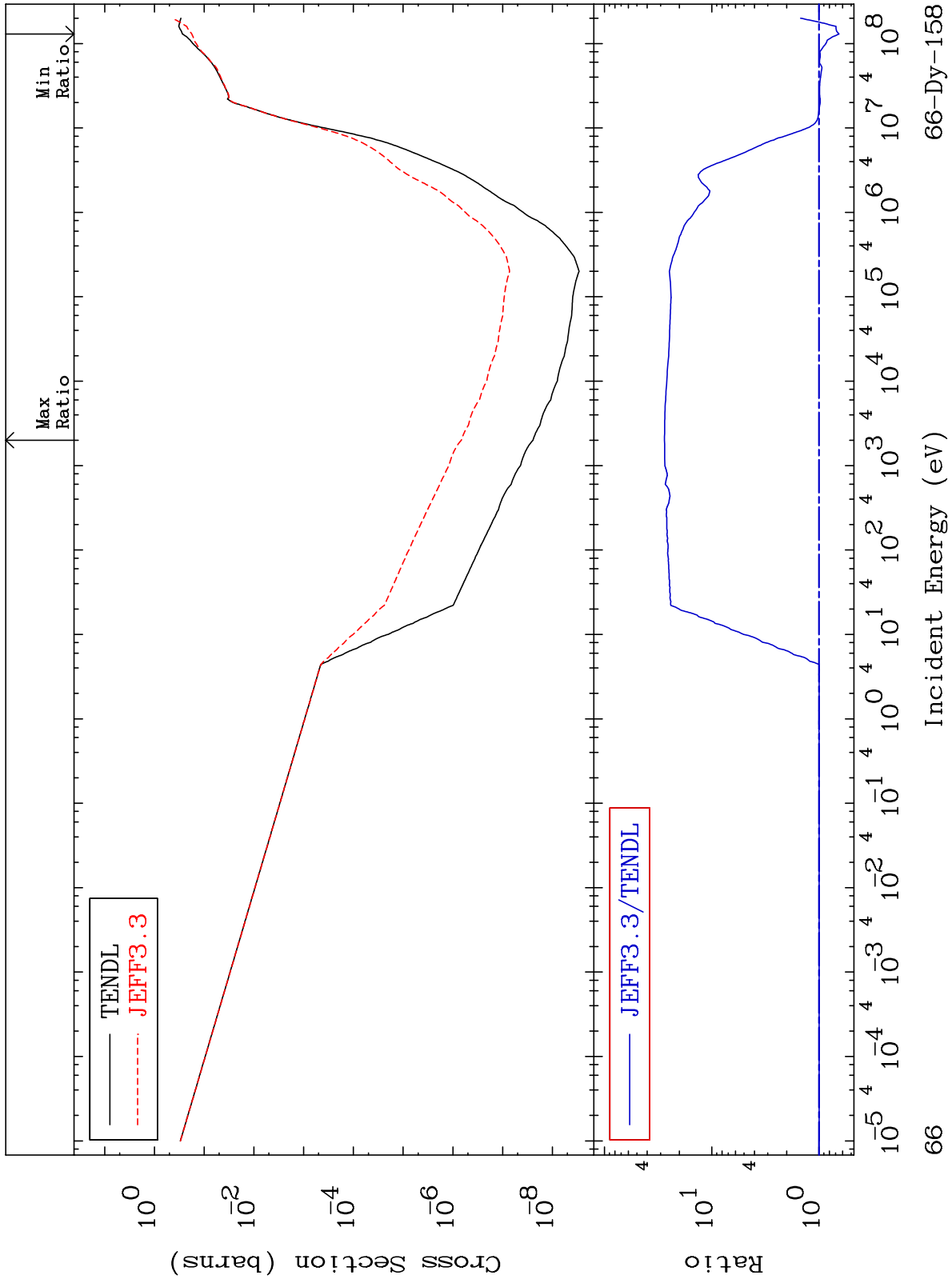
Incident Energy (eV)

66-Dy-158

MAT 6631

He-4 Production  
Cross Section

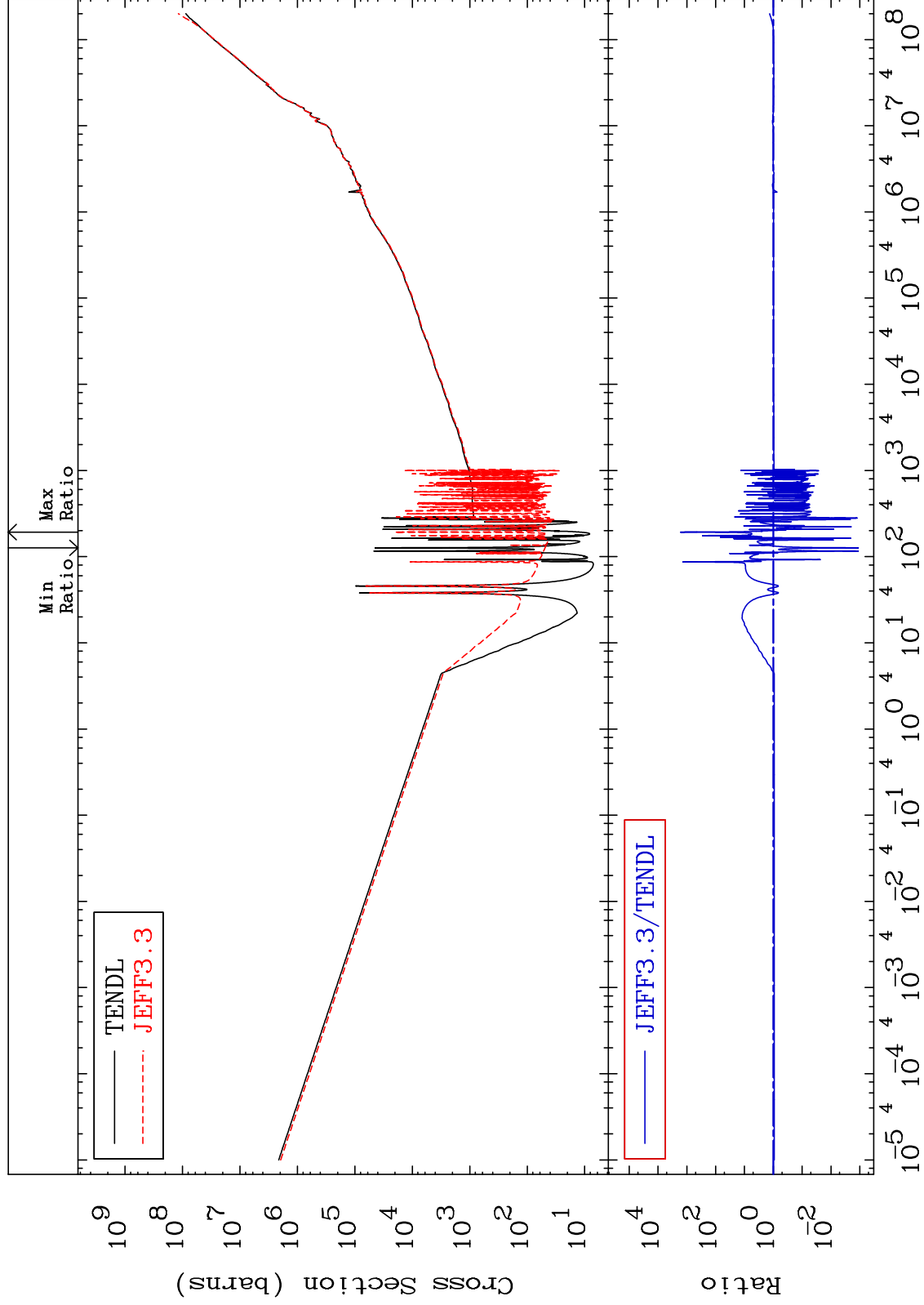
66-Dy-158  
-35.08 To 2658. %



MAT 6631

Kerma total (eV-barns)  
Cross Section

66-Dy-158  
-99.89 To 9999. %



67

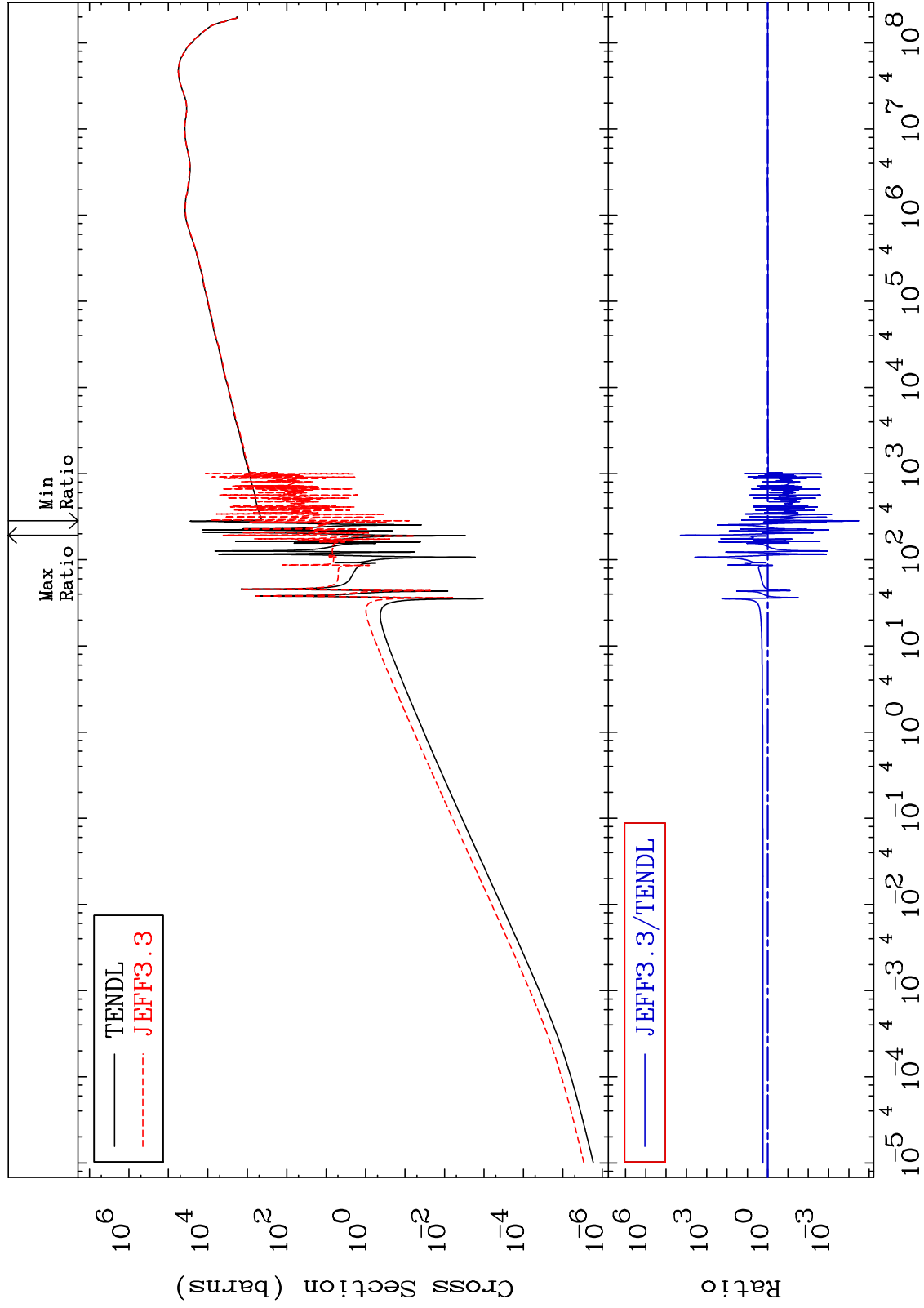
Incident Energy (eV)

66-Dy-158

MAT 6631

Kerma elastic  
Cross Section

66-Dy-158  
-100.0 To 9999. %



68

Incident Energy (eV)

66-Dy-158

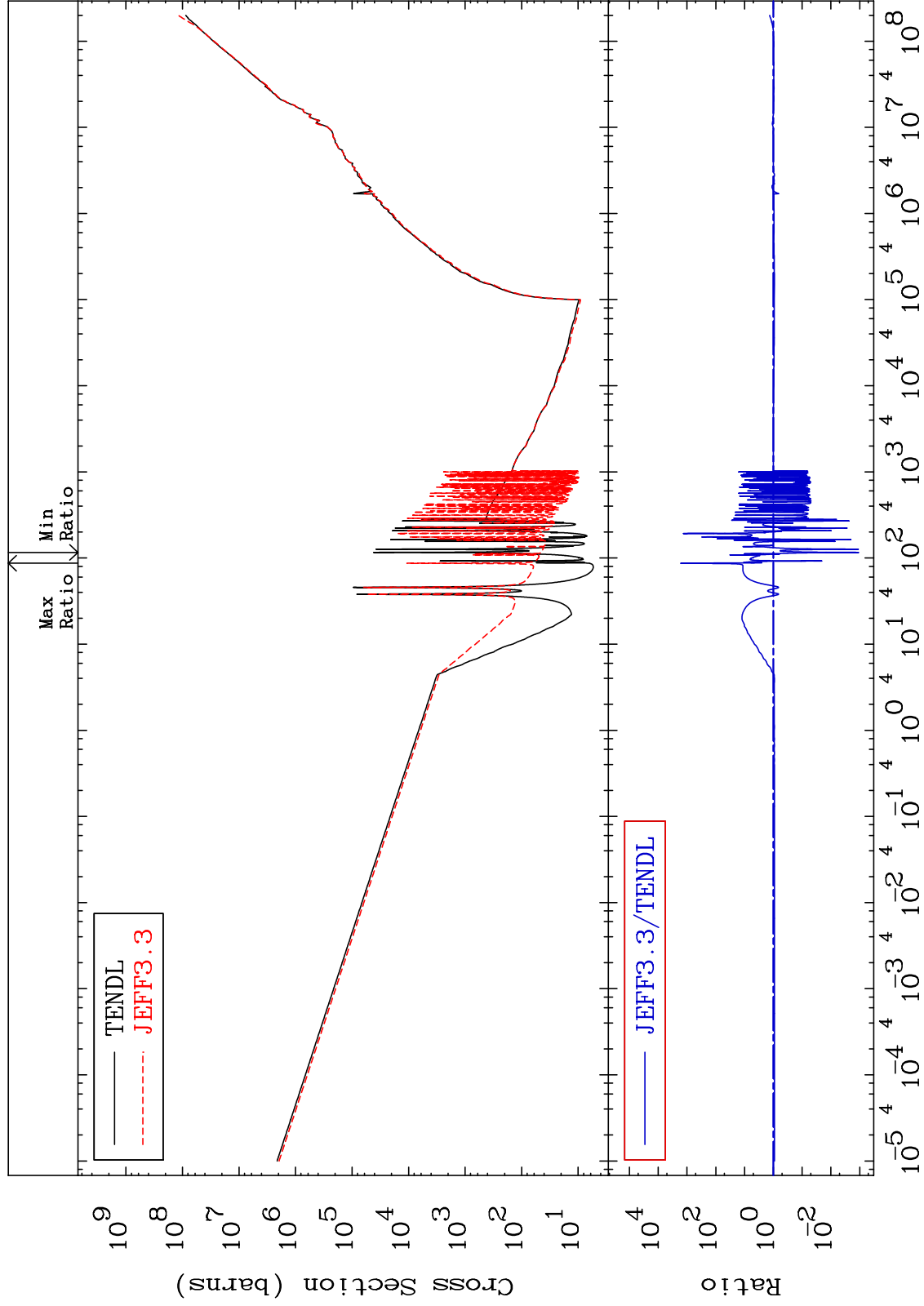
MAT 6631

Kerma non-elastic (all but mt2)

66-Dy-158

-99.89 To 9999. %

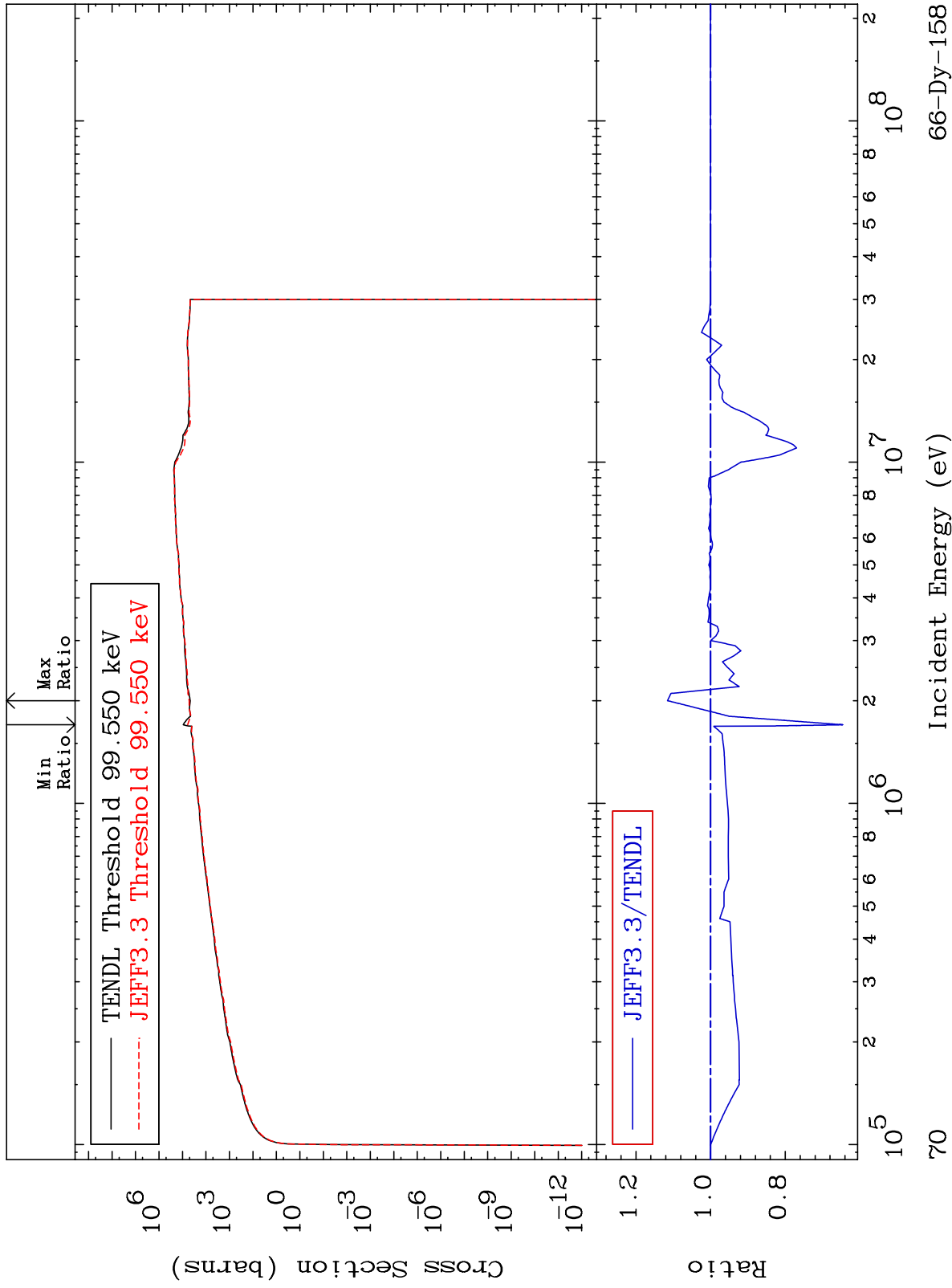
Cross Section



MAT 6631

Kerma inelastic (mt51-91)  
Cross Section

66-Dy-158  
-35.37 To 11.54 %

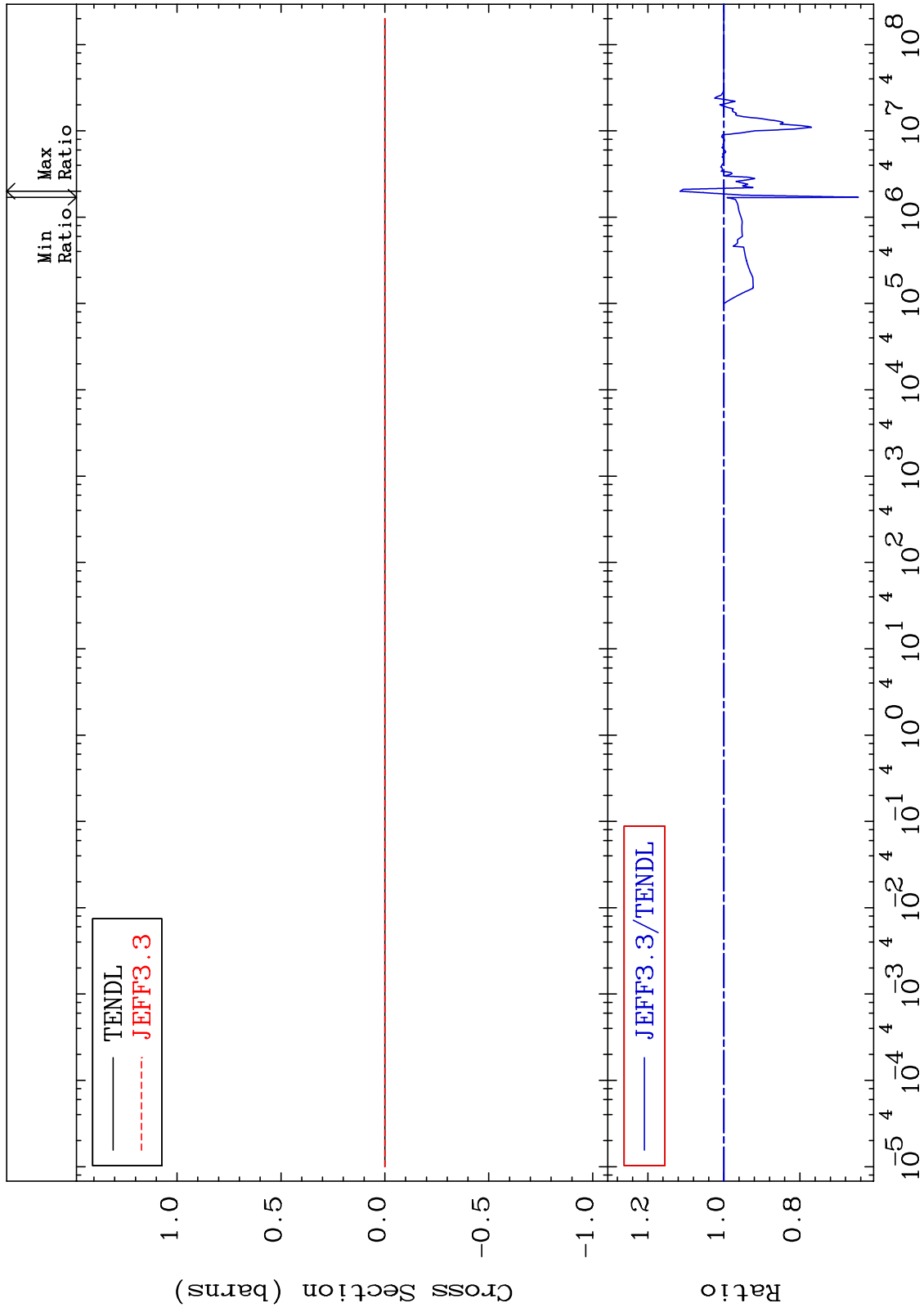


66-Dy-158

MAT 6631

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

66-Dy-158  
-35.37 To 11.54 %



71

Incident Energy (eV)

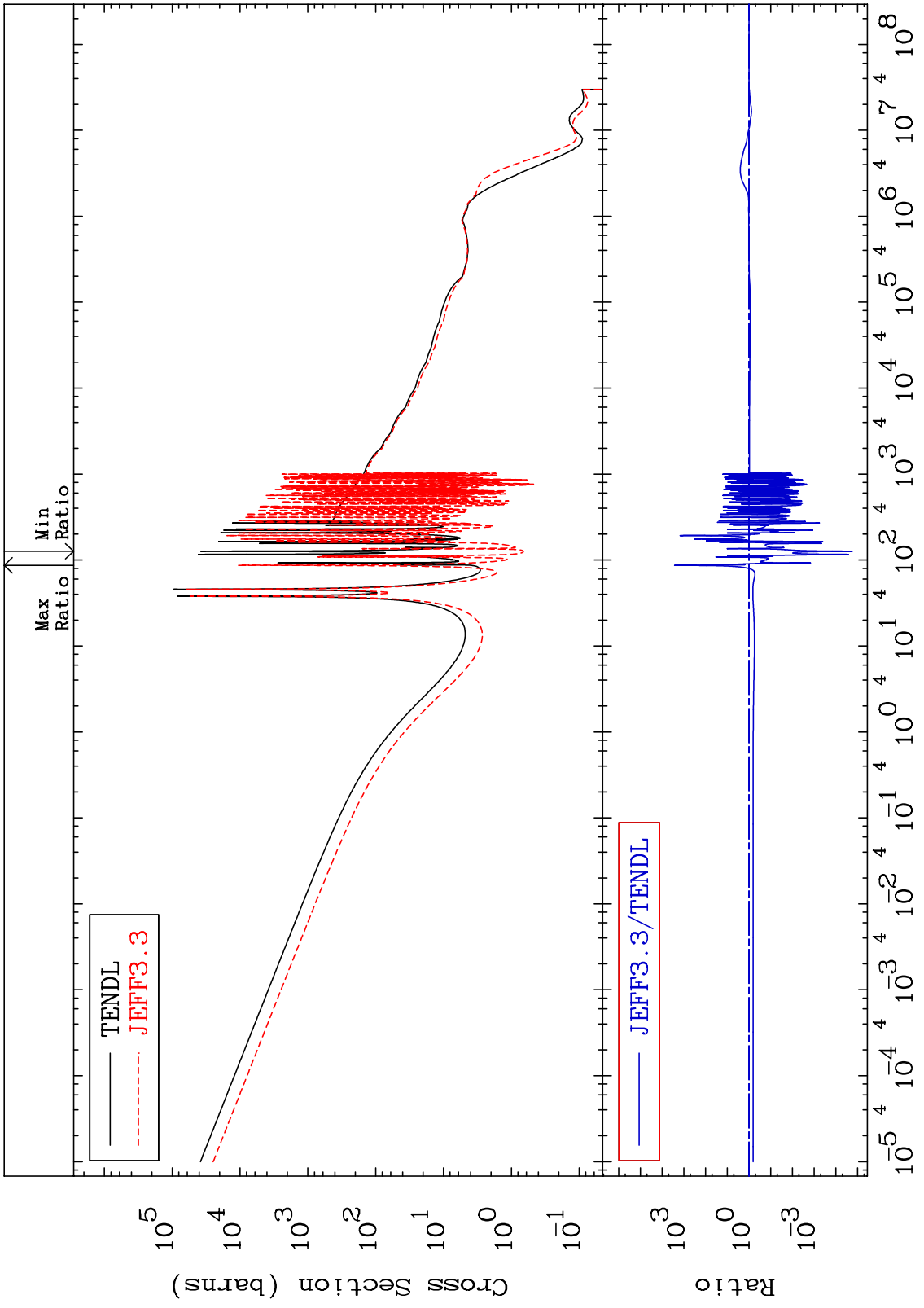
66-Dy-158



MAT 6631

Kerma capture (mt102)  
Cross Section

66-Dy-158  
-100.0 To 9999. %



72

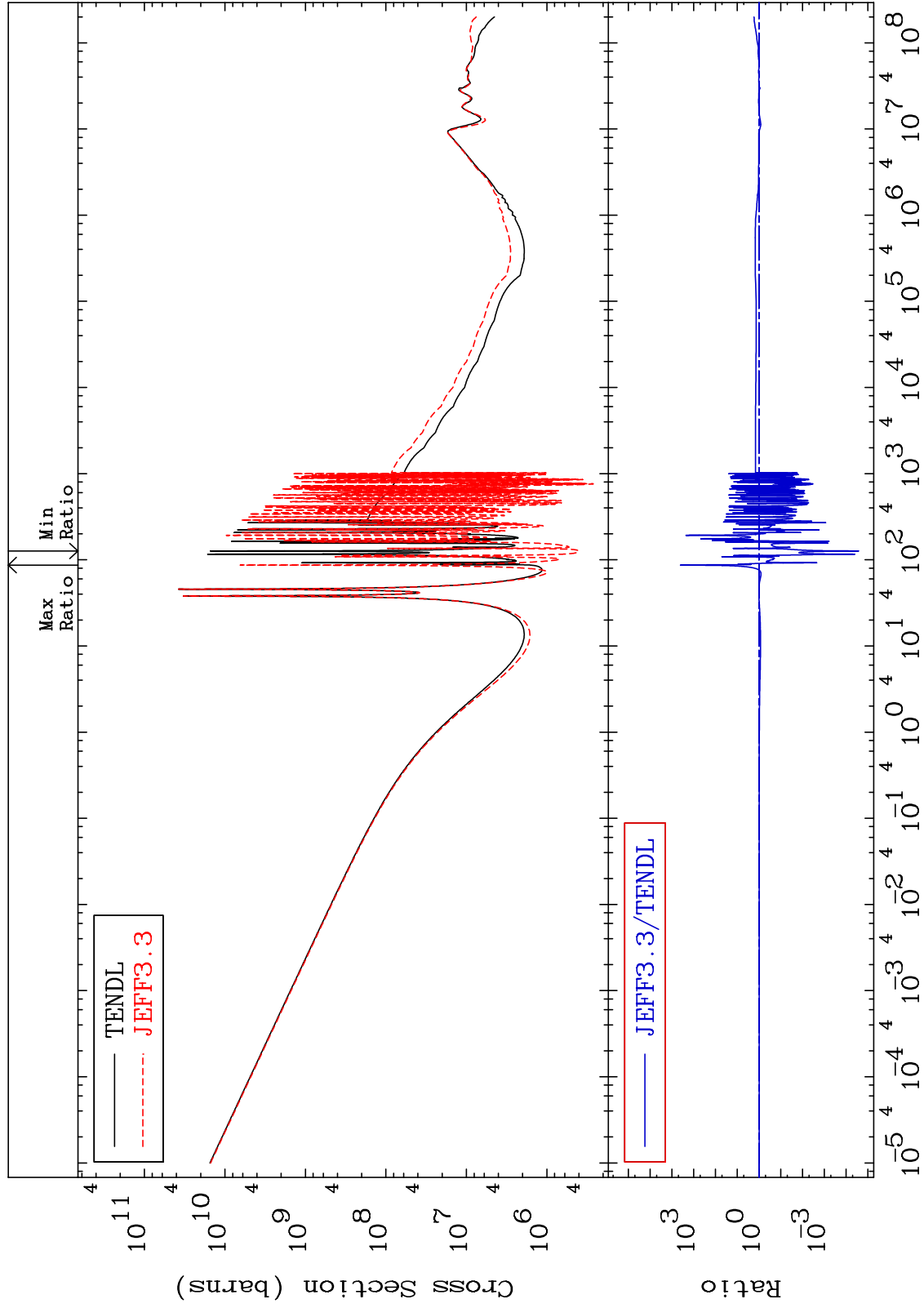
Incident Energy (eV)

66-Dy-158

MAT 6631

Total photon (eV-barns)  
Cross Section

66-Dy-158  
-100.0 To 9999. %



73

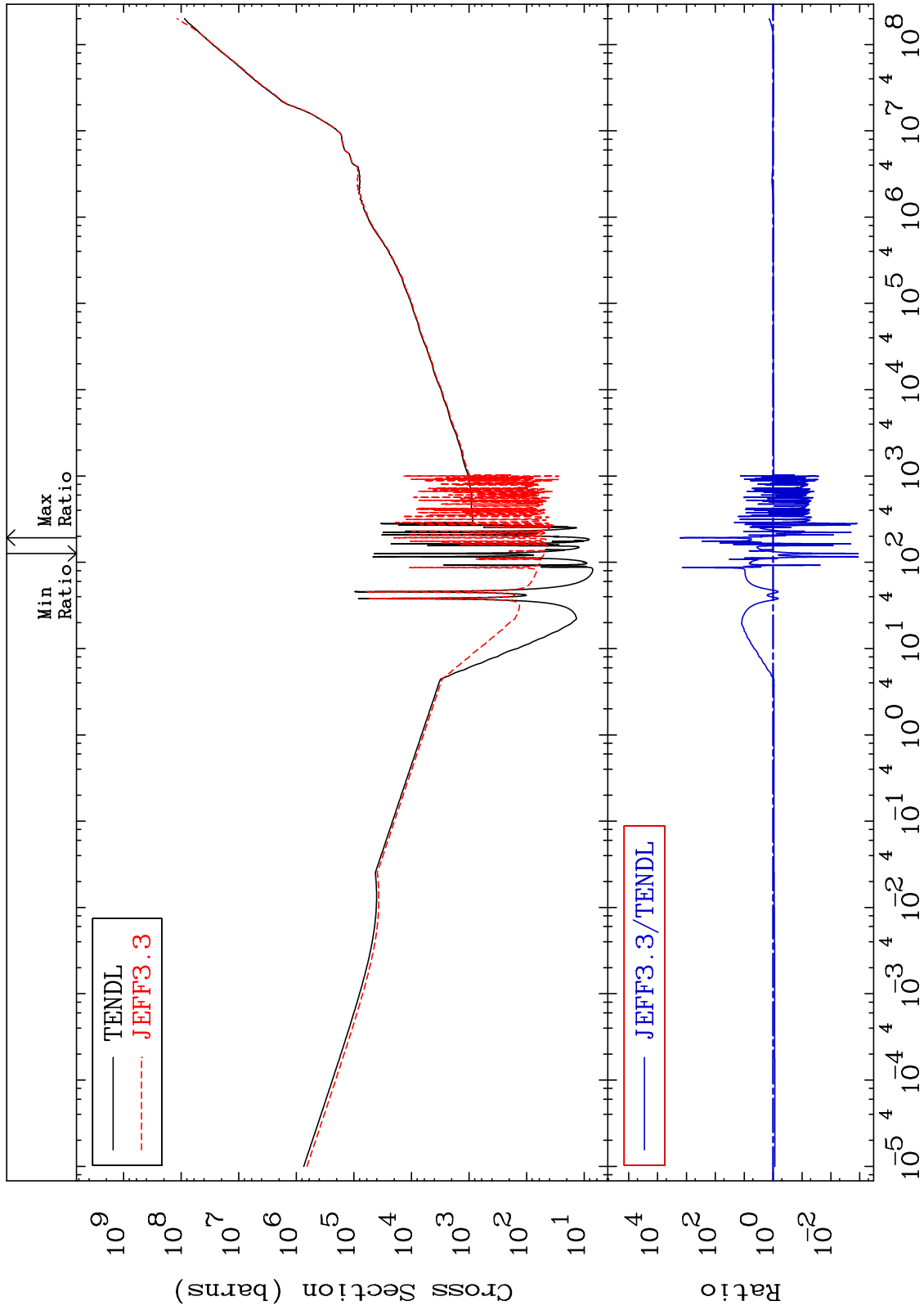
Incident Energy (eV)

66-Dy-158

MAT 6631

Total kinematic kerma (high limit)  
Cross Section

66-Dy-158  
-99.89 To 9999. %



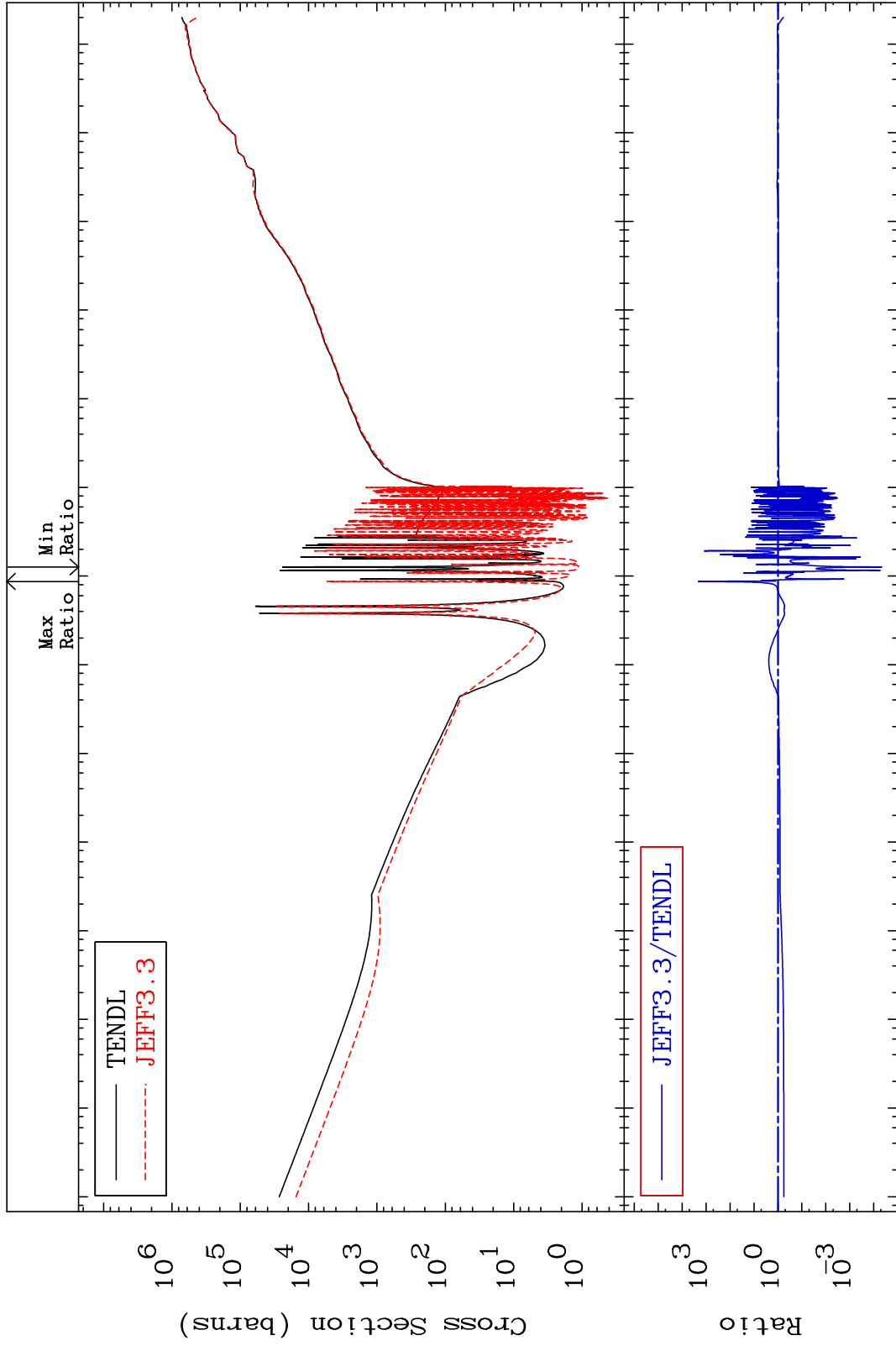
MAT 6631

Dpa total (eV-barns)

66-Dy-158

-100.0 To 9999. %

Cross Section



Max Ratio

Min Ratio

TENDL  
JEFF3.3

JEFF3.3/TENDL

Incident Energy (eV)

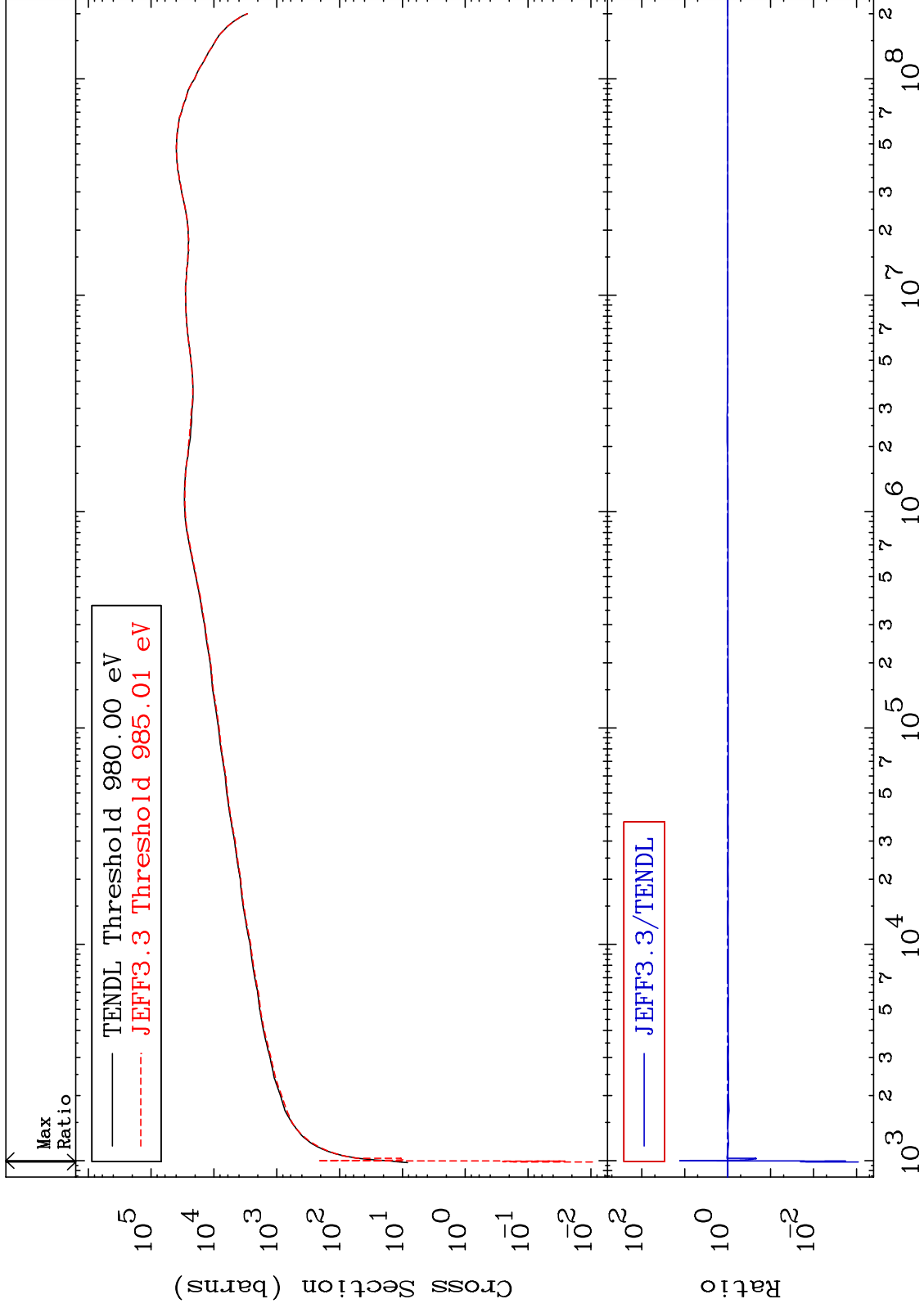
75

66-Dy-158

MAT 6631

Dpa elastic (mt2)  
Cross Section

66-Dy-158  
-99.91 To 1204. %



76

Incident Energy (eV)

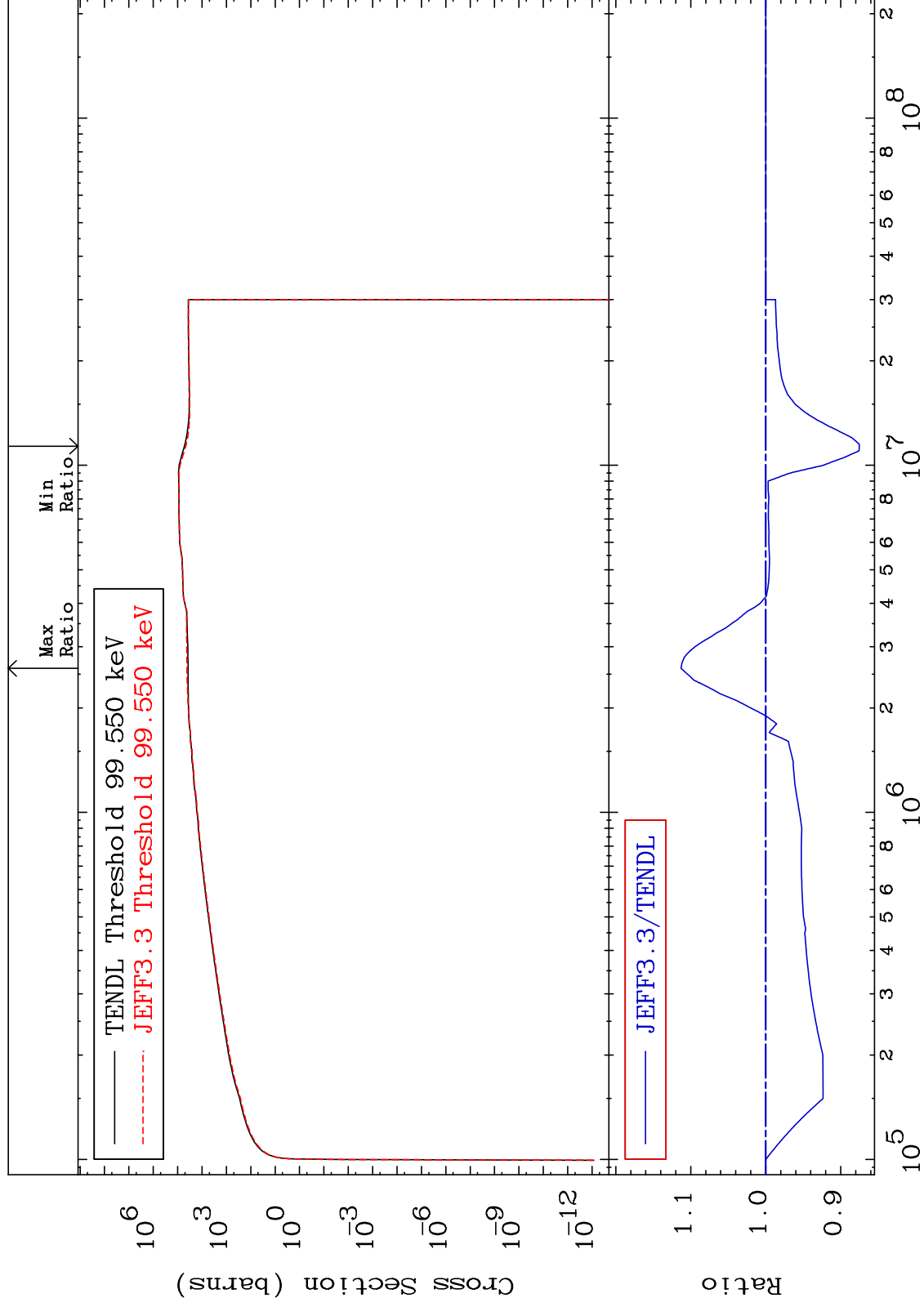
66-Dy-158

MAT 6631

Dpa inelastic (mt51-91)  
Cross Section

66-Dy-158

-12.48 To 11.30 %



77

Incident Energy (eV)

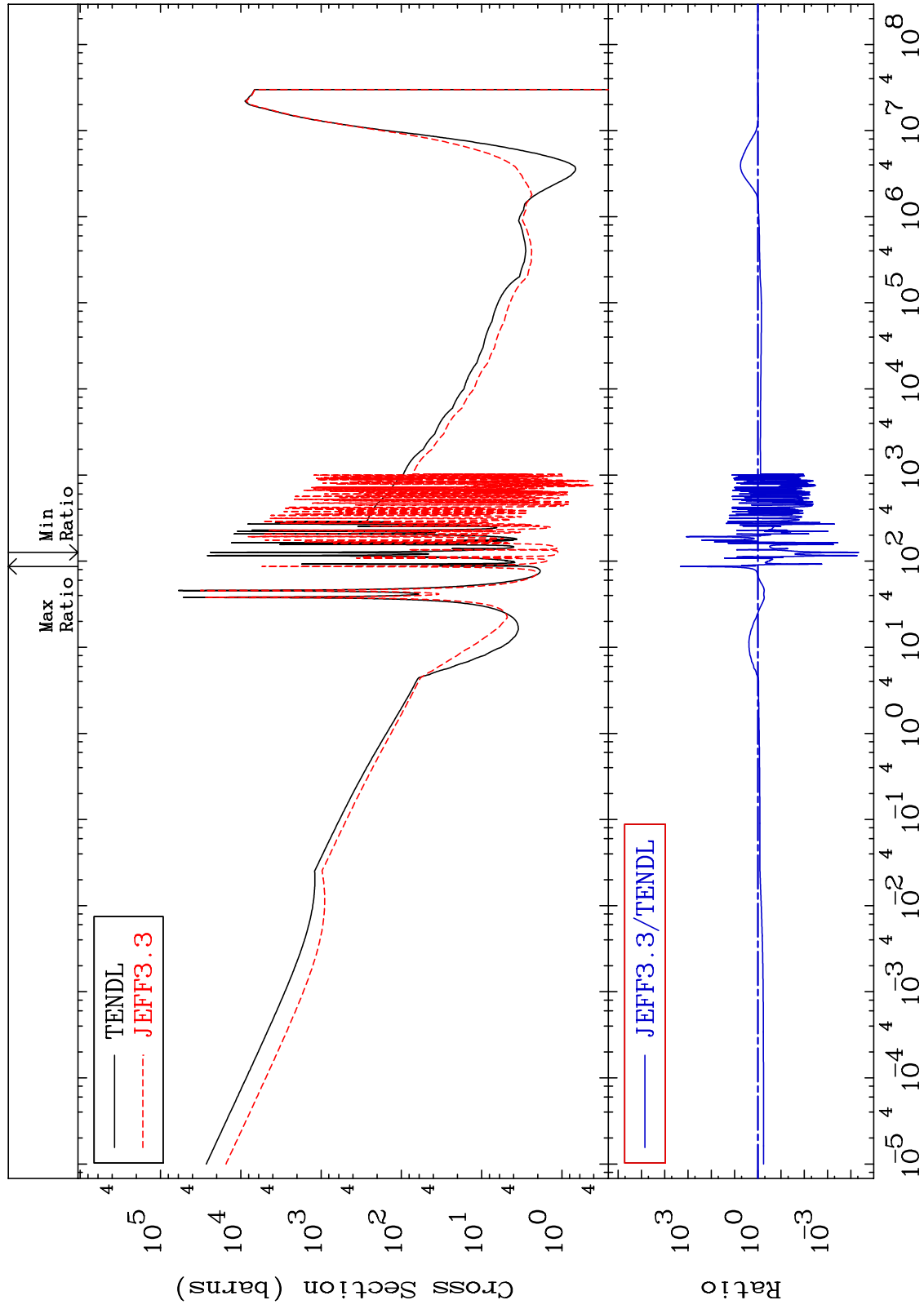
66-Dy-158

MAT 6631

Dpa disappearance (mt102 -120)

66-Dy-158

-100.0 To 9999. %



78

Incident Energy (eV)

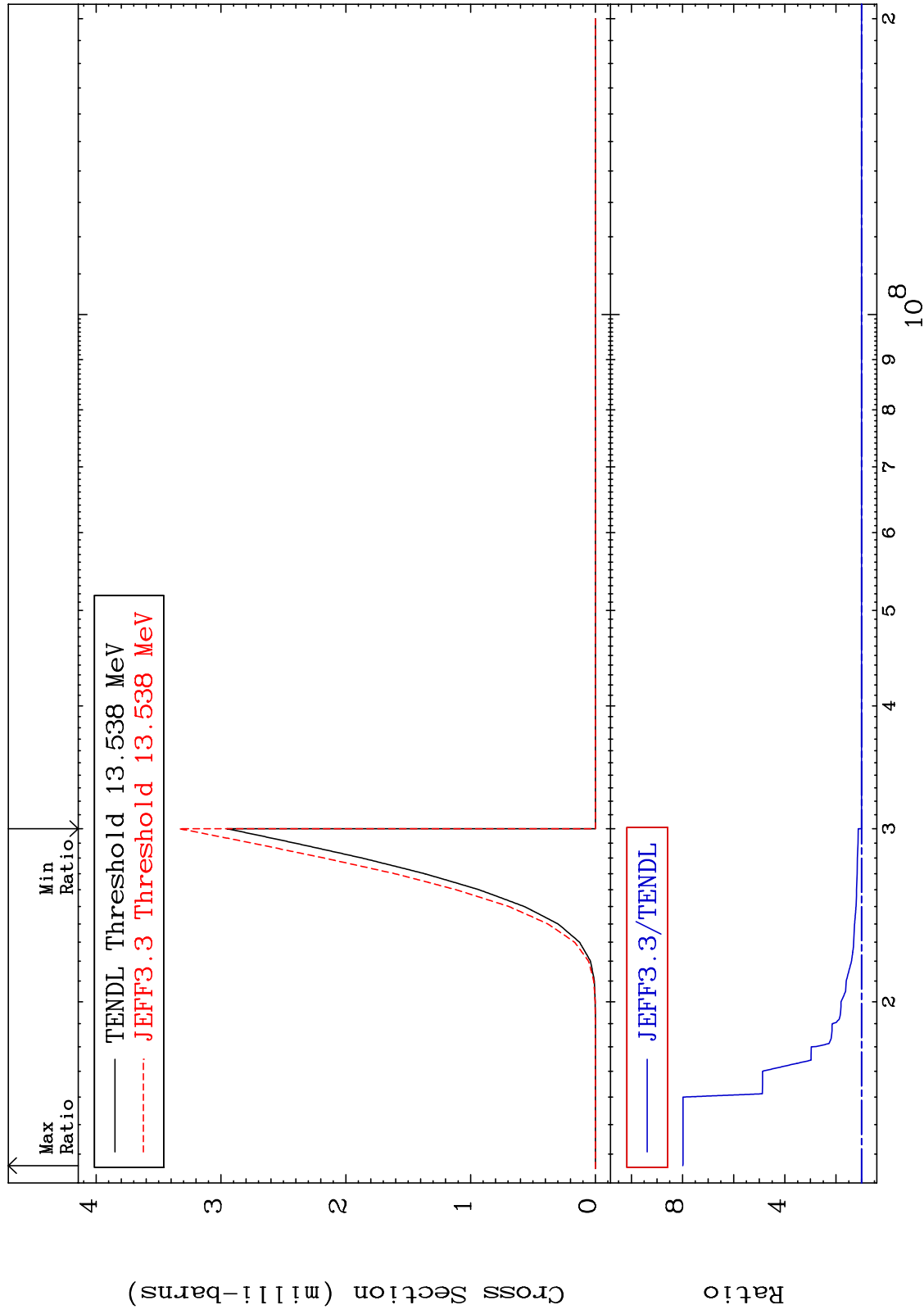
66-Dy-158

MAT 6631

(n, n') d:65-Tb-156g

66-Dy-158

Radionuclide Production Cross Section 0.000 To 698.7 %



79

Incident Energy (eV)

66-Dy-158

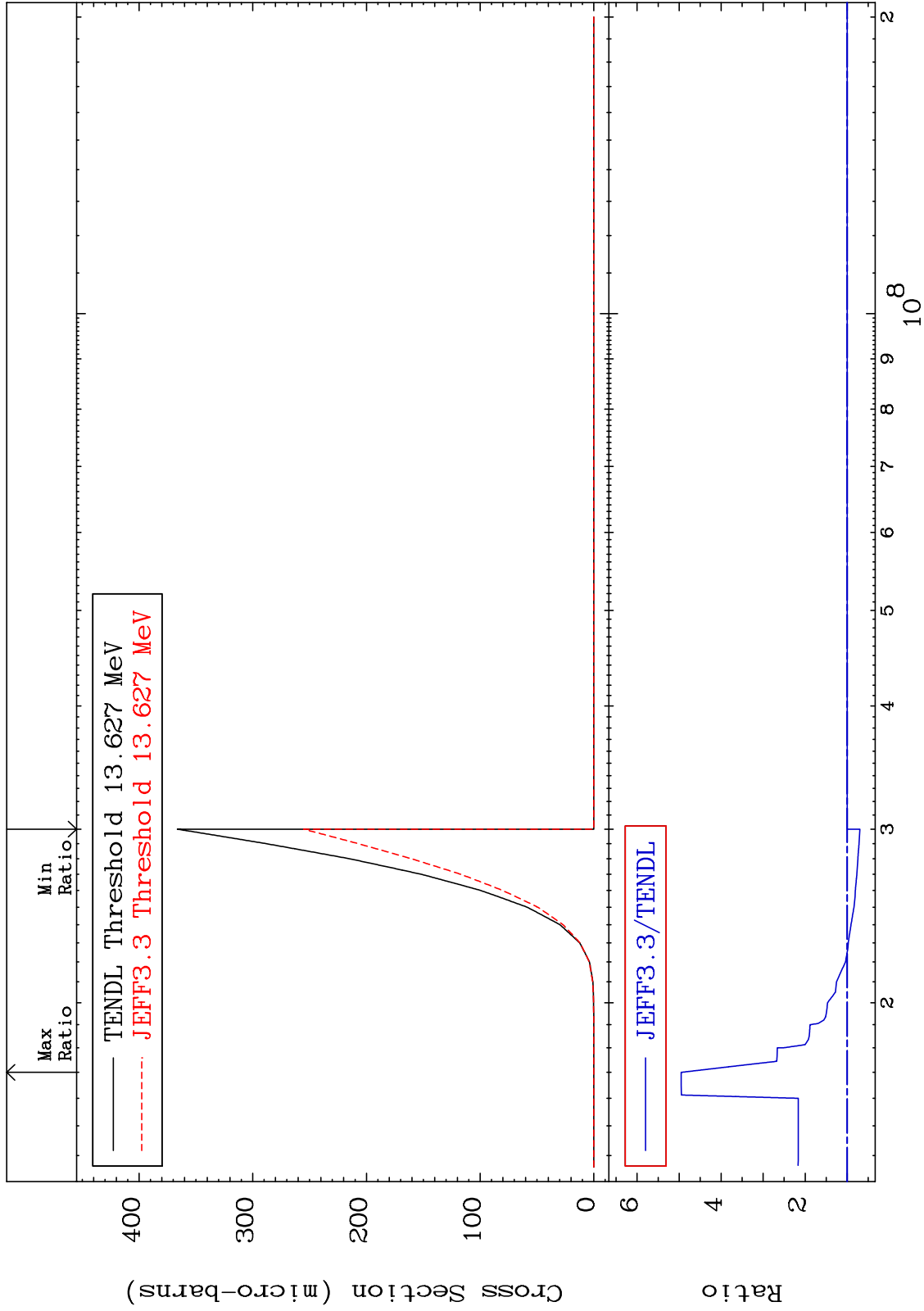


MAT 6631

(n, n') d: 65-Tb-156m3

66-Dy-158

Radionuclide Production Cross Section -30.30 To 395.0 %



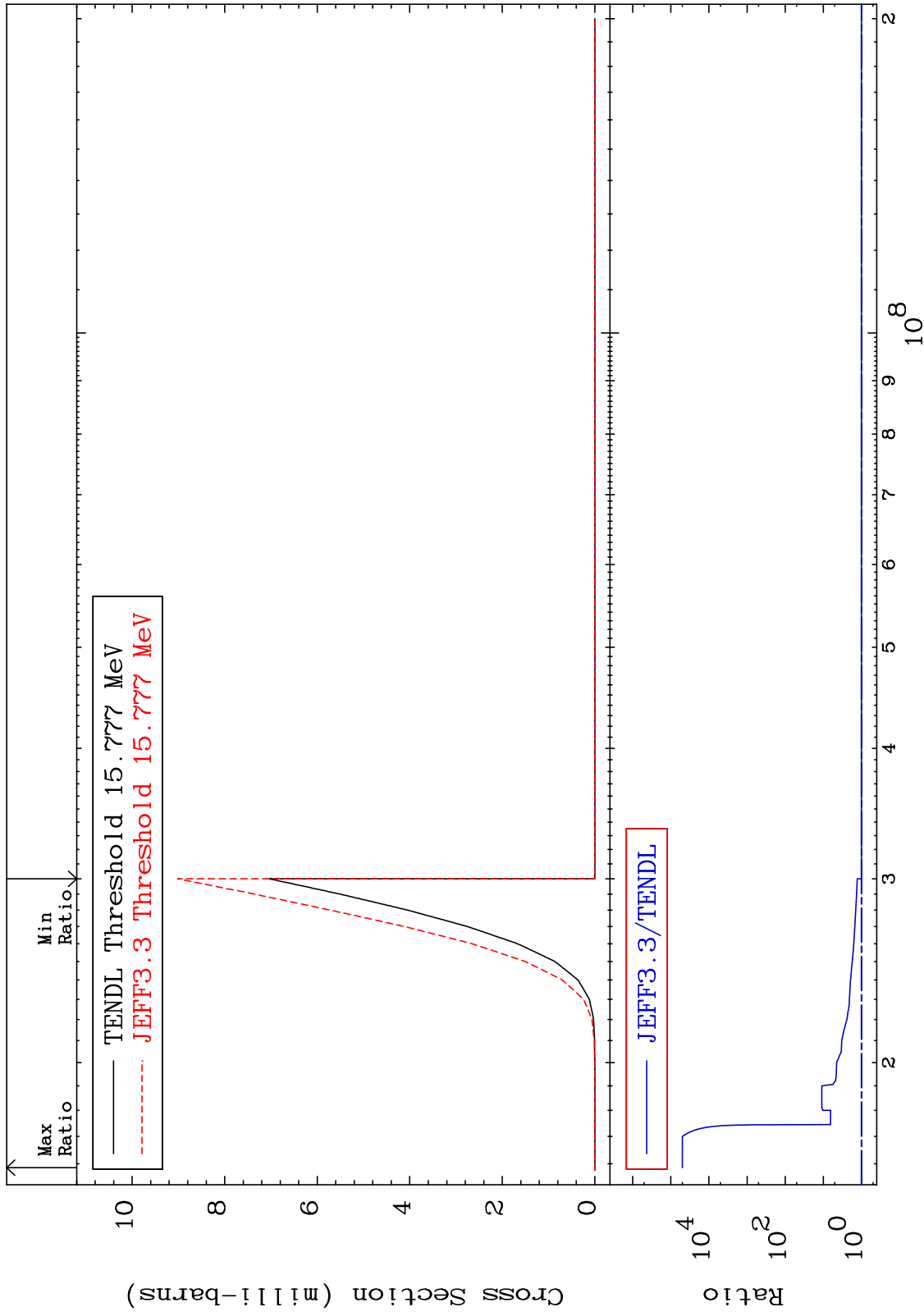
80

Incident Energy (eV)

66-Dy-158

MAT 6631

(n,2n) p:65-Tb-156g 66-Dy-158  
Radionuclide Production Cross Section 0.000 To 9999. %

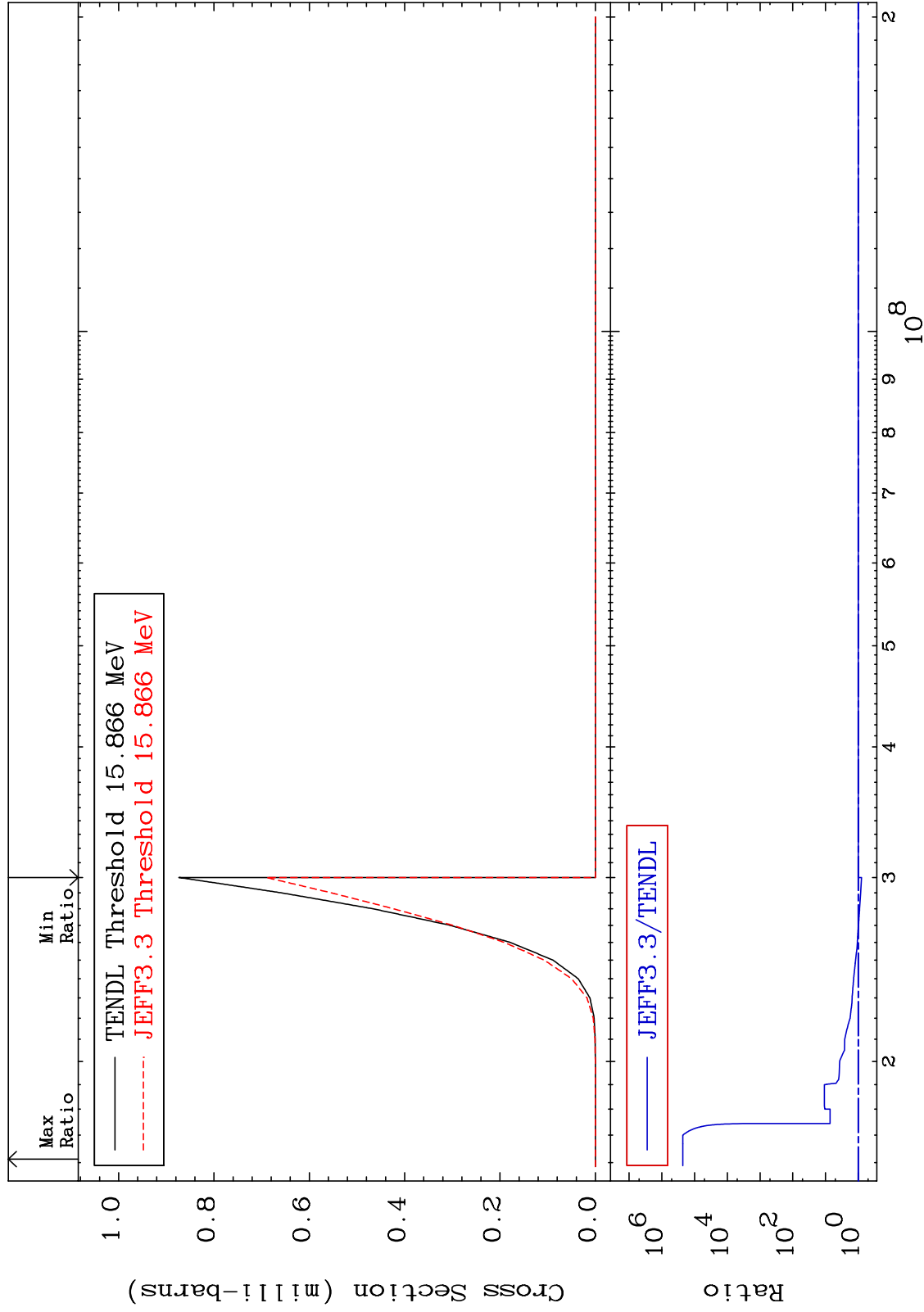


MAT 6631

(n,2n) p: 65-Tb-156m3

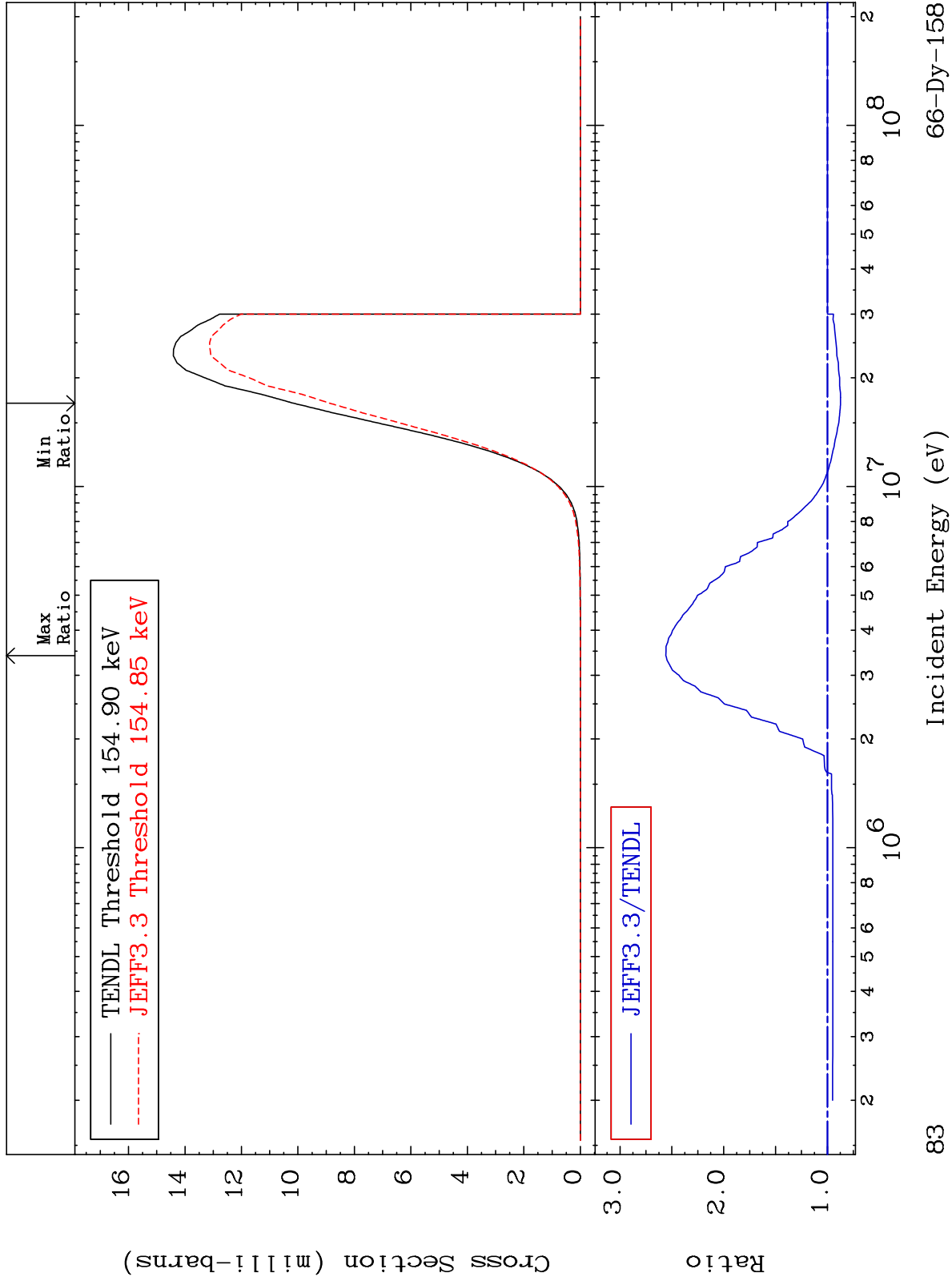
66-Dy-158

Radionuclide Production Cross Section -20.93 To 9999. %



MAT 6631

(n, p): 65-Tb-158g 66-Dy-158  
Radionuclide Production Cross Section -12.70 To 155.8 %

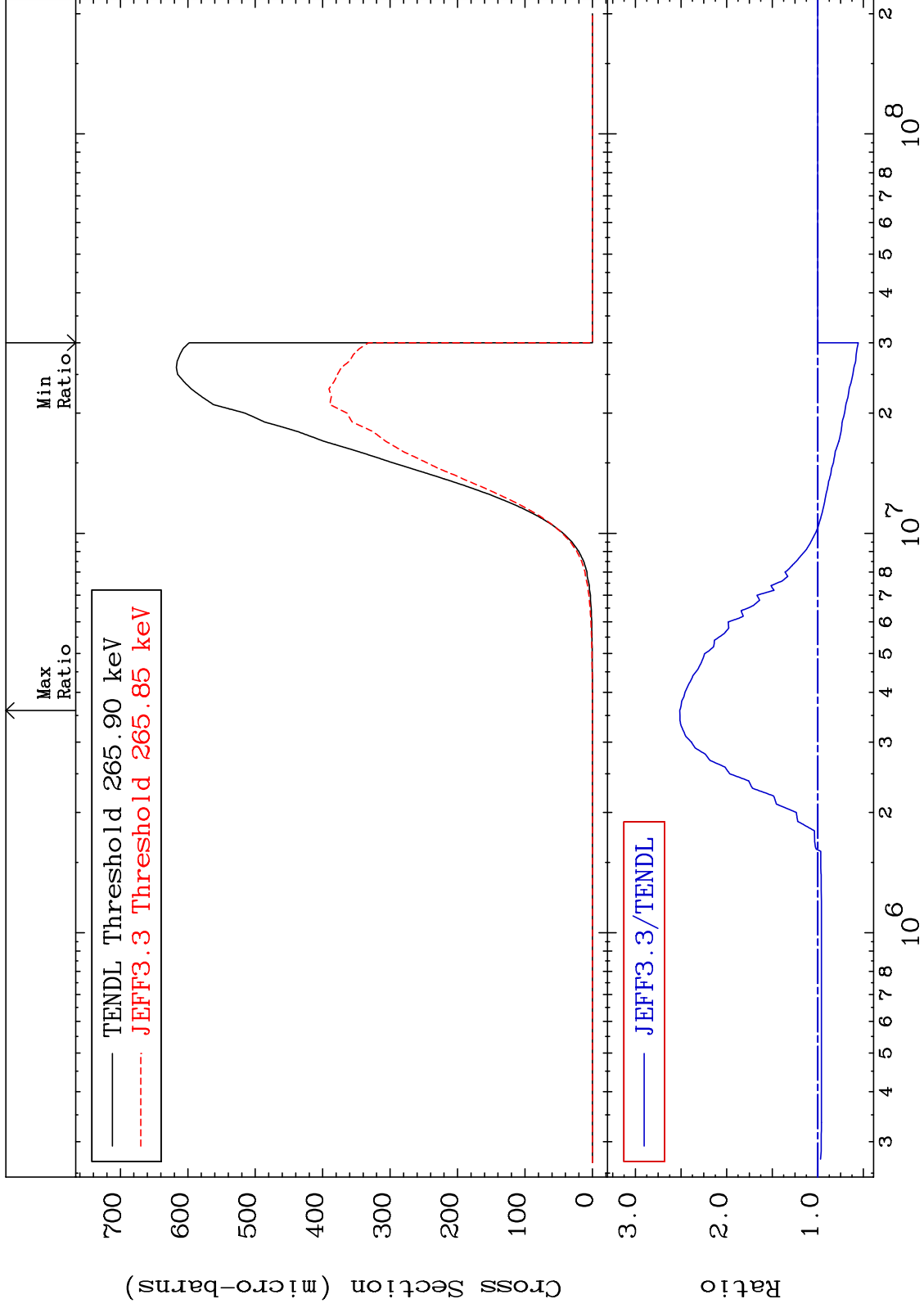


MAT 6631

(n, p) : 65-Tb-158m3

66-Dy-158

Radionuclide Production Cross Section -44.46 To 151.3 %

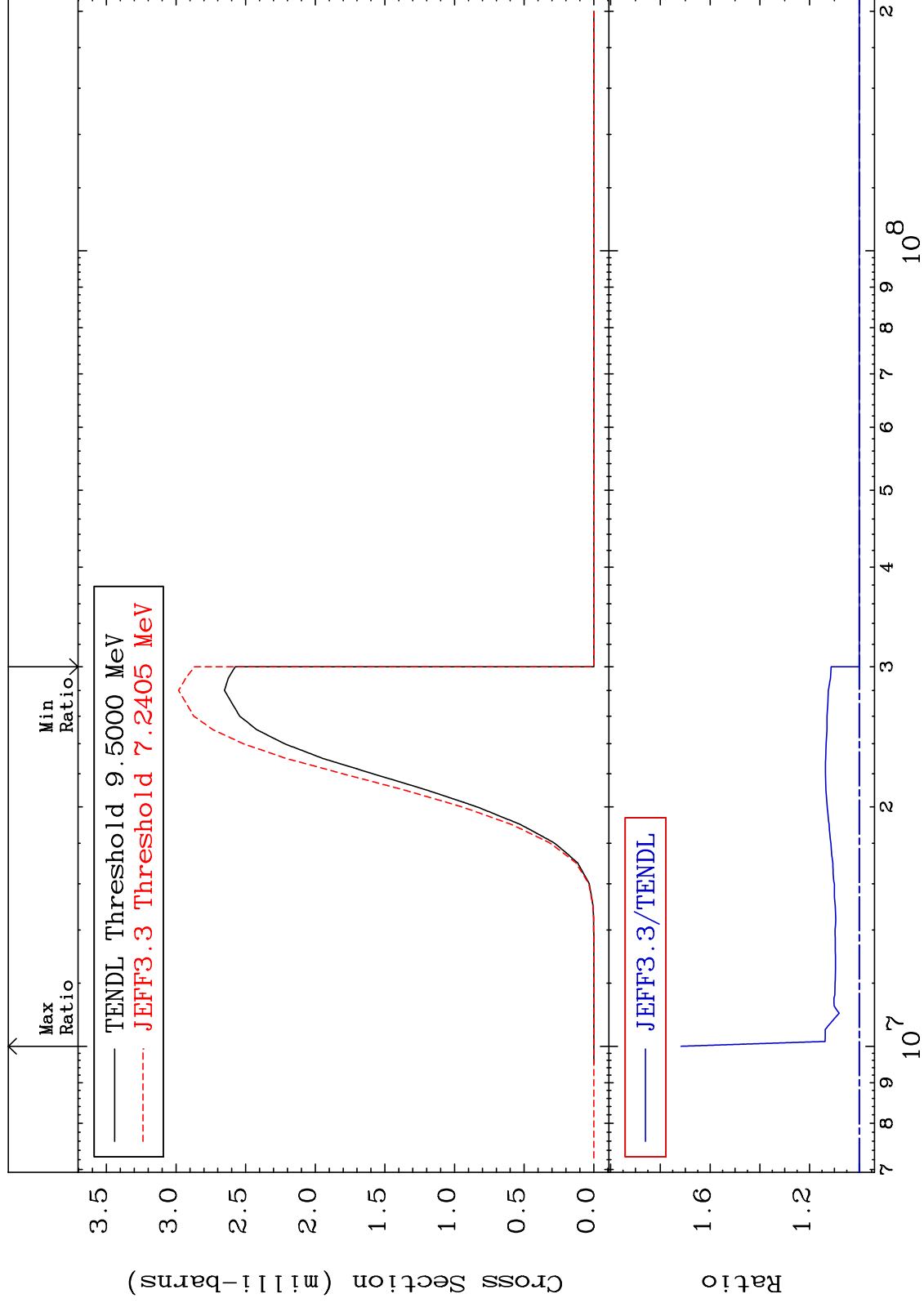


MAT 6631

(n, t): 65-Tb-156g

66-Dy-158

Radionuclide Production Cross Section 0.000 To 71.68 %



85

Incident Energy (eV)

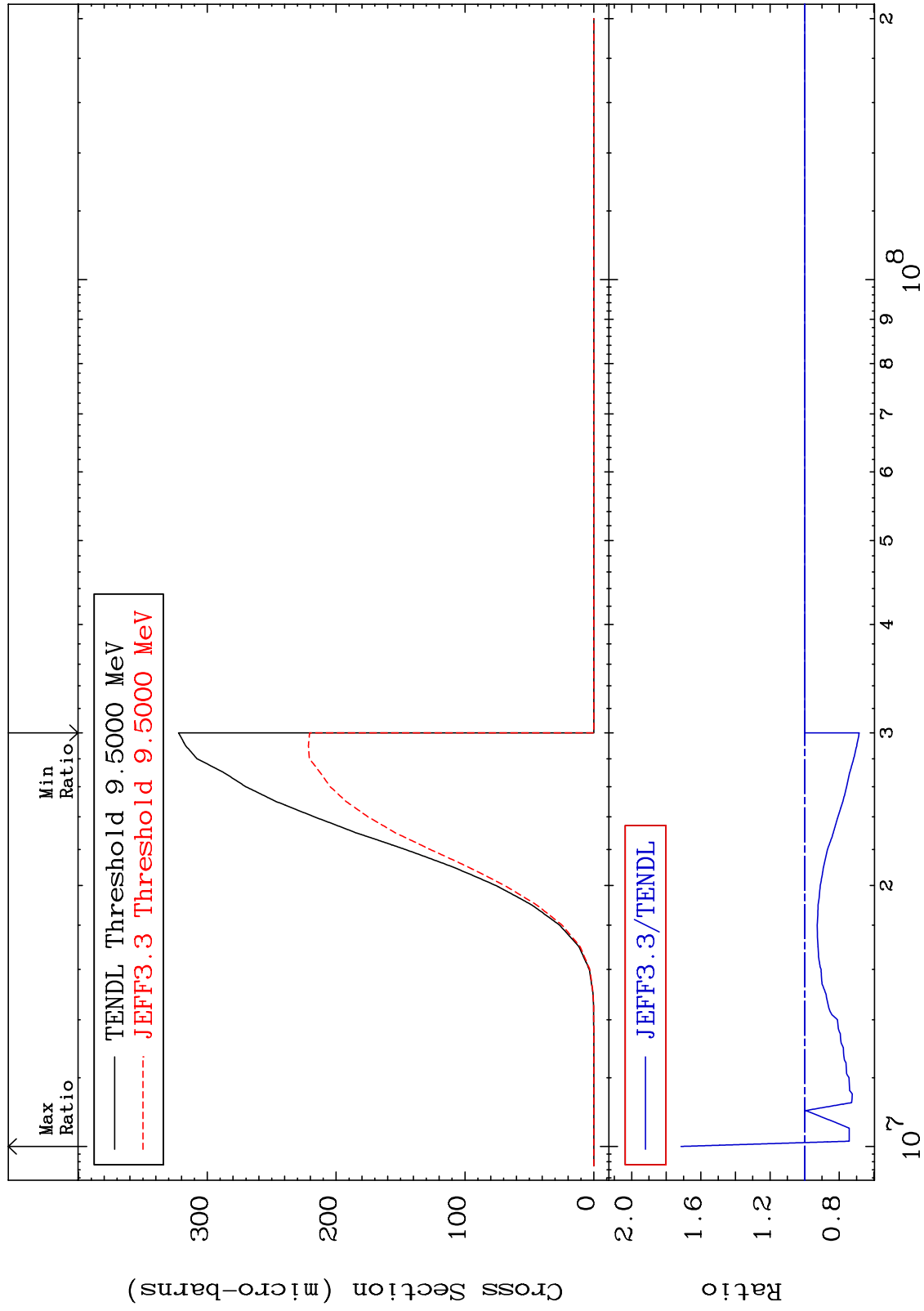
66-Dy-158

MAT 6631

(n, t) : 65-Tb-156m3

66-Dy-158

Radionuclide Production Cross Section -31.57 To 71.45 %



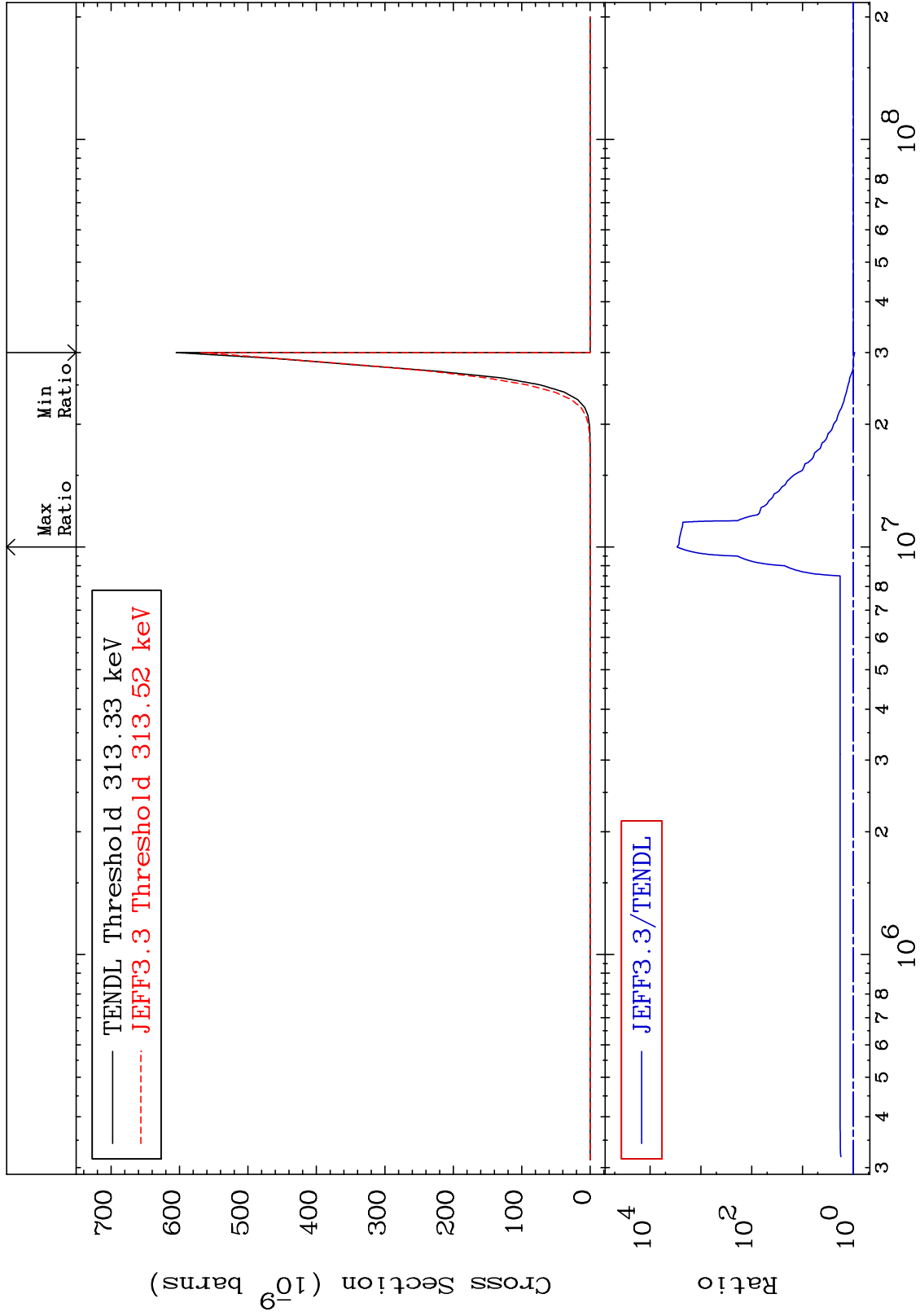
86

Incident Energy (eV)

66-Dy-158

MAT 6631

(n, p)  $\alpha$ : 63-Eu-154g 66-Dy-158  
Radionuclide Production Cross Section -6.074 To 9999. %



87

Incident Energy (eV)

66-Dy-158