

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

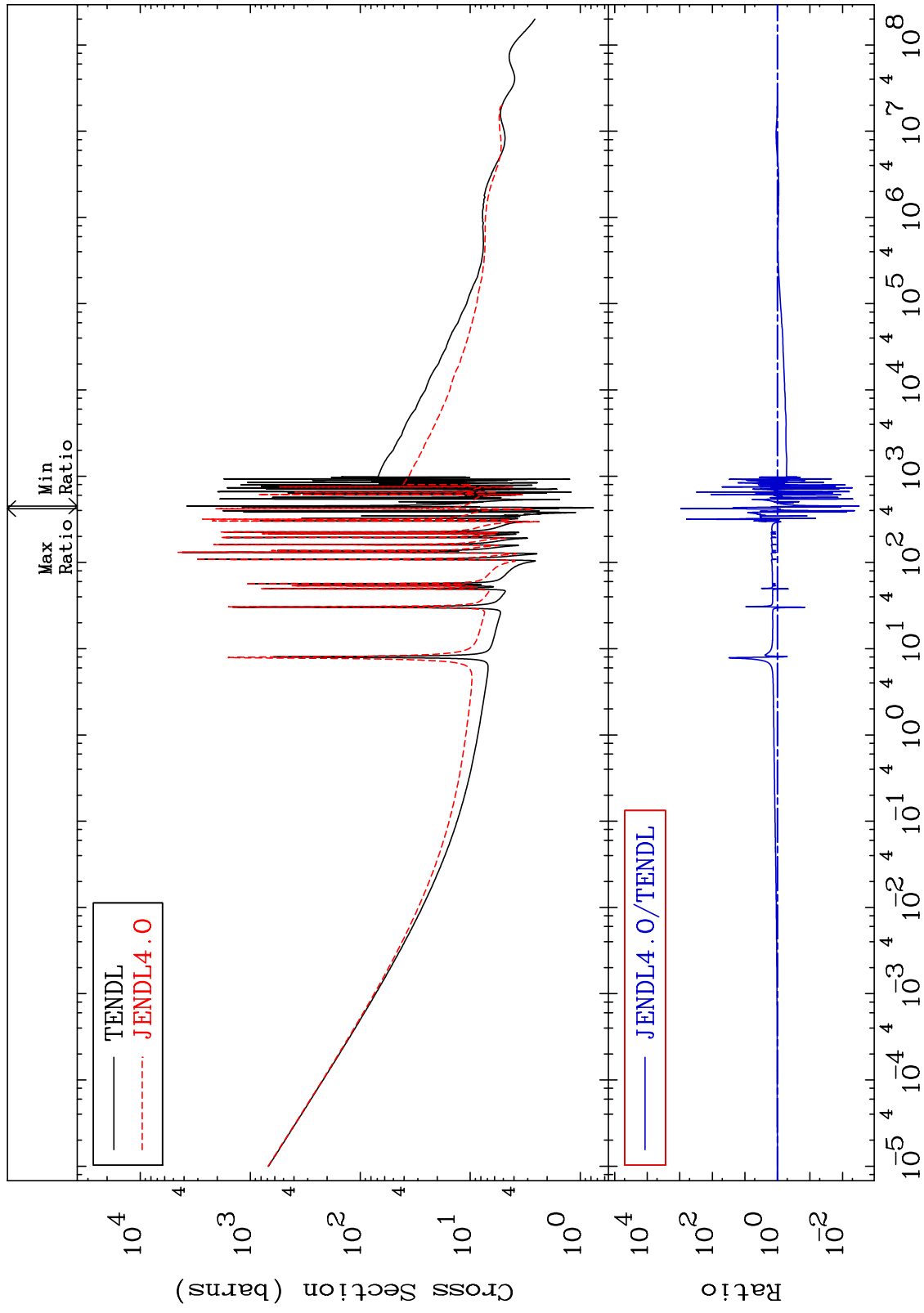
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6831

Total  
Cross Section

68-Er-164  
-99.69 To 9999. %



1

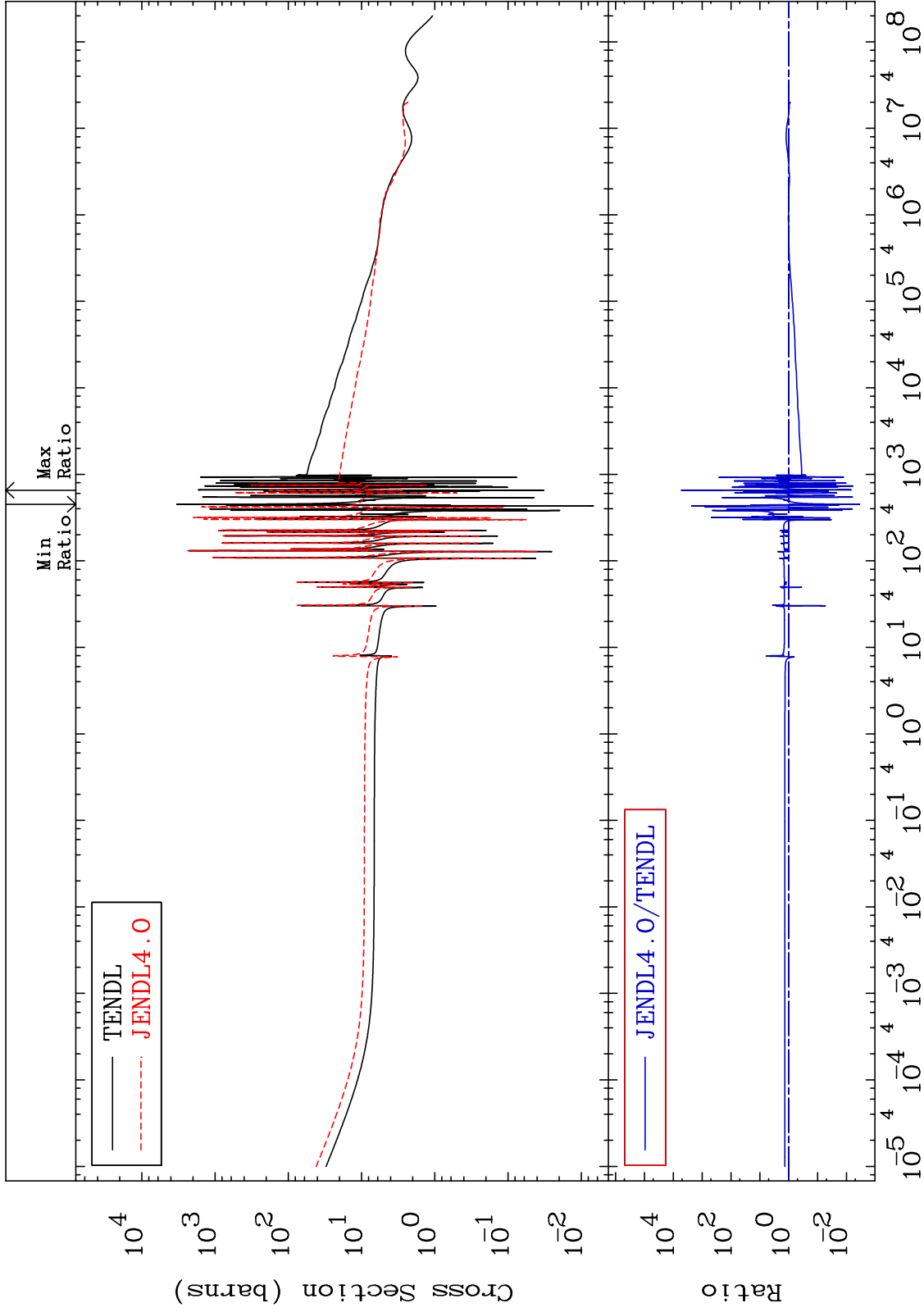
Incident Energy (eV)

68-Er-164

MAT 6831

Elastic  
Cross Section

68-Er-164  
-99.65 To 9999. %

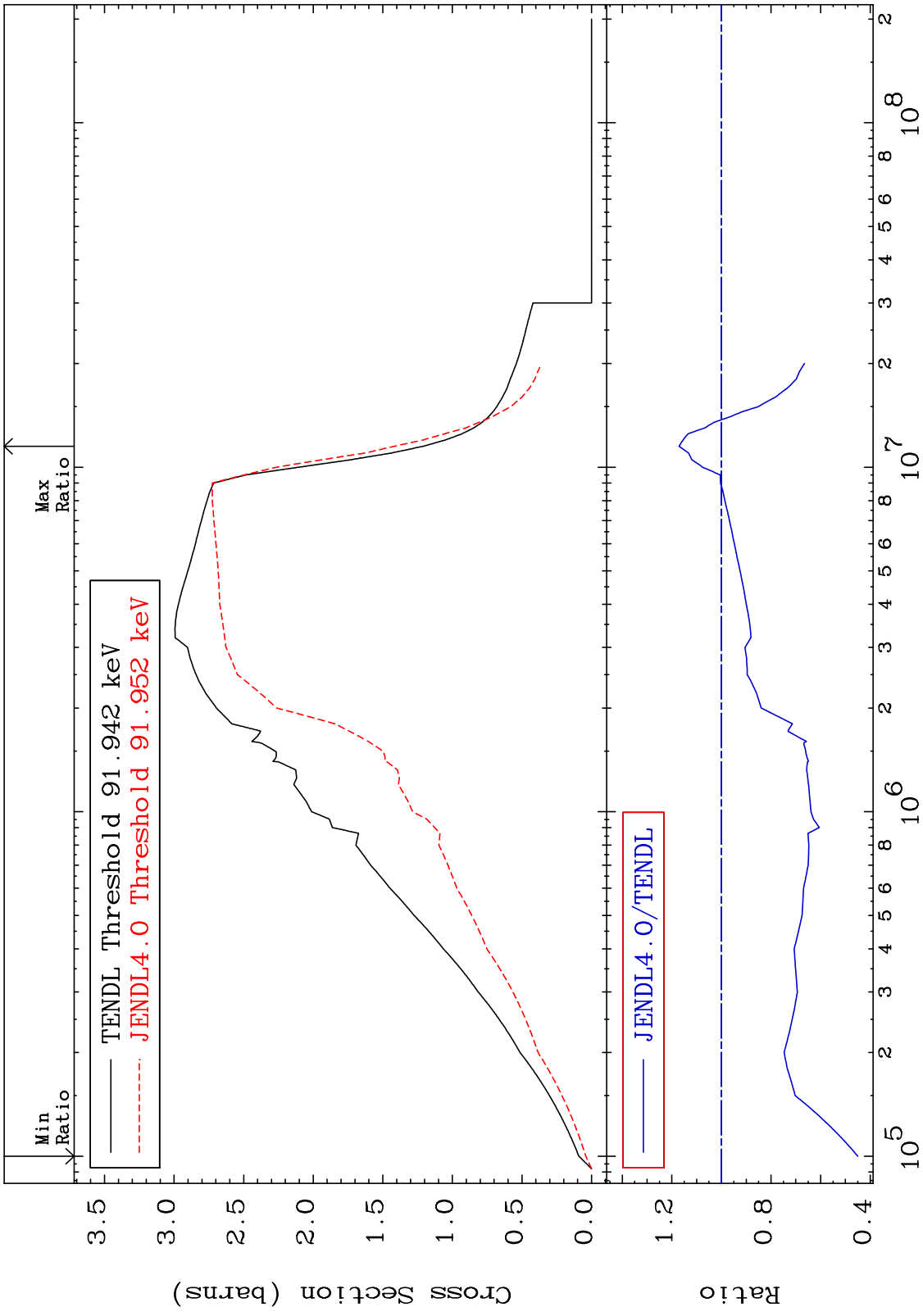


2

Incident Energy (eV)

68-Er-164

MAT 6831 68-Er-164 -55.02 To 17.09 % Inelastic Cross Section



68-Er-164

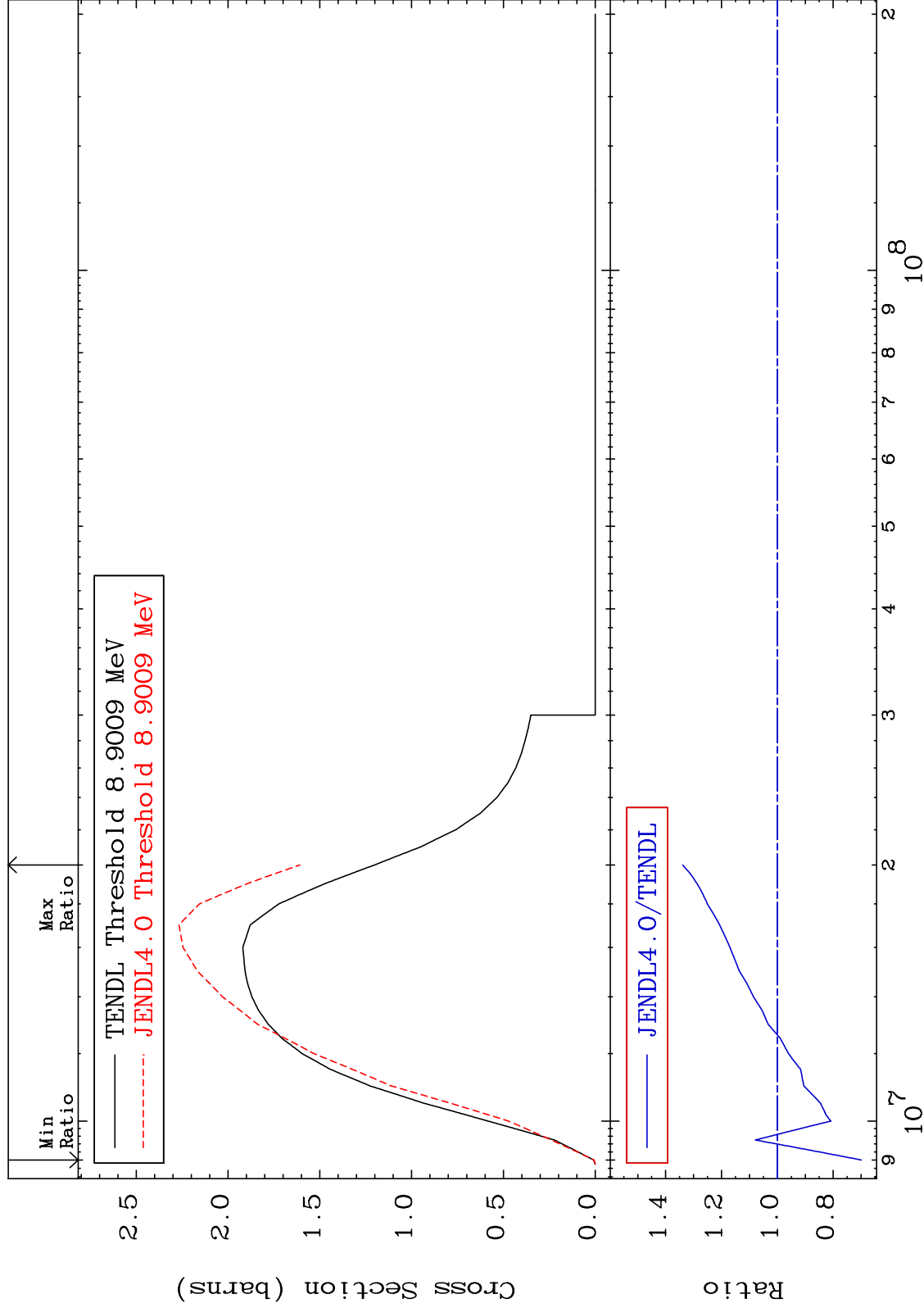
MAT 6831

(n,2n)

68-Er-164

Cross Section

-30.08 To 33.90 %

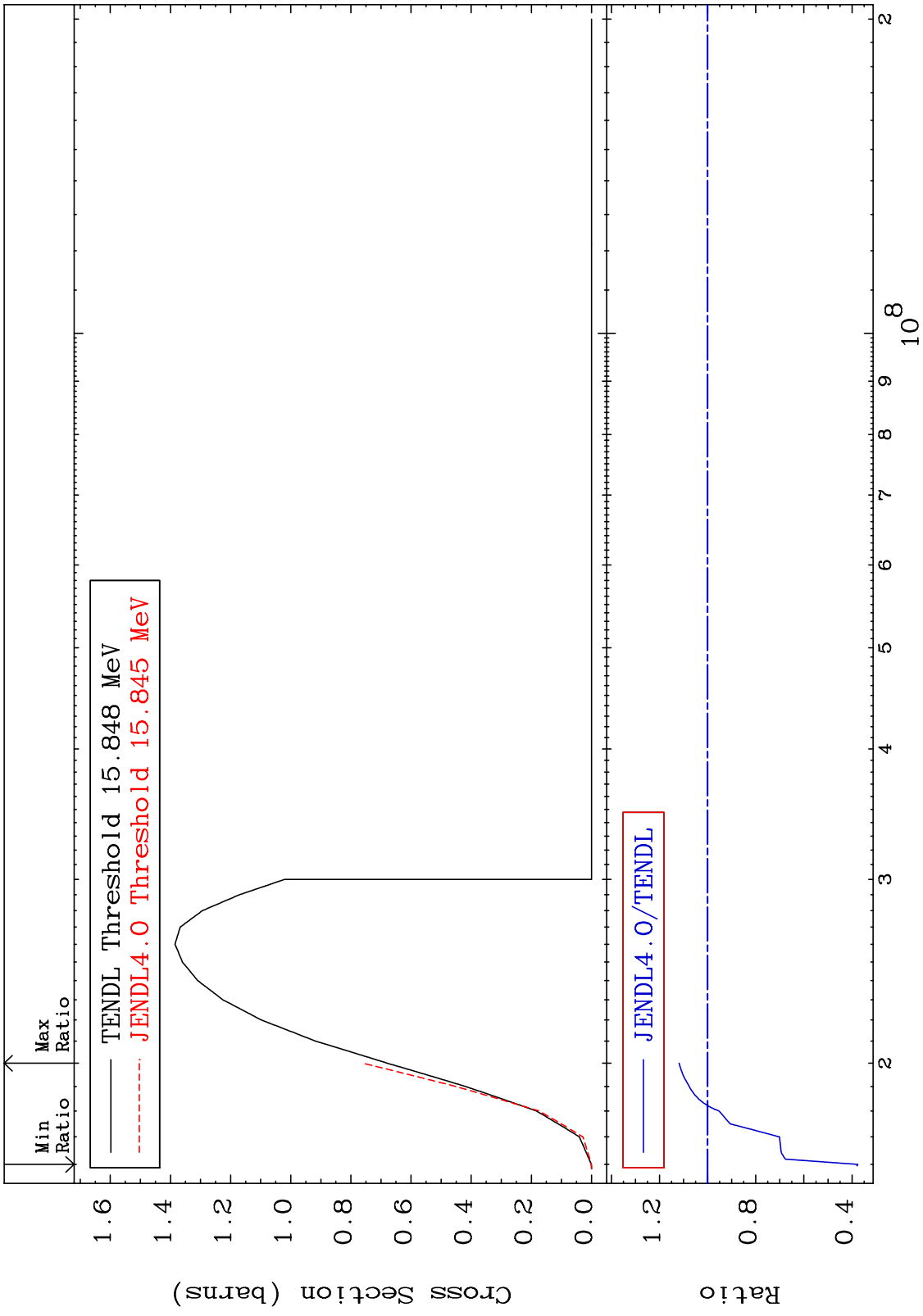


4

Incident Energy (eV)

68-Er-164

MAT 6831 (n,3n) Cross Section 68-Er-164 -62.42 To 11.91 %



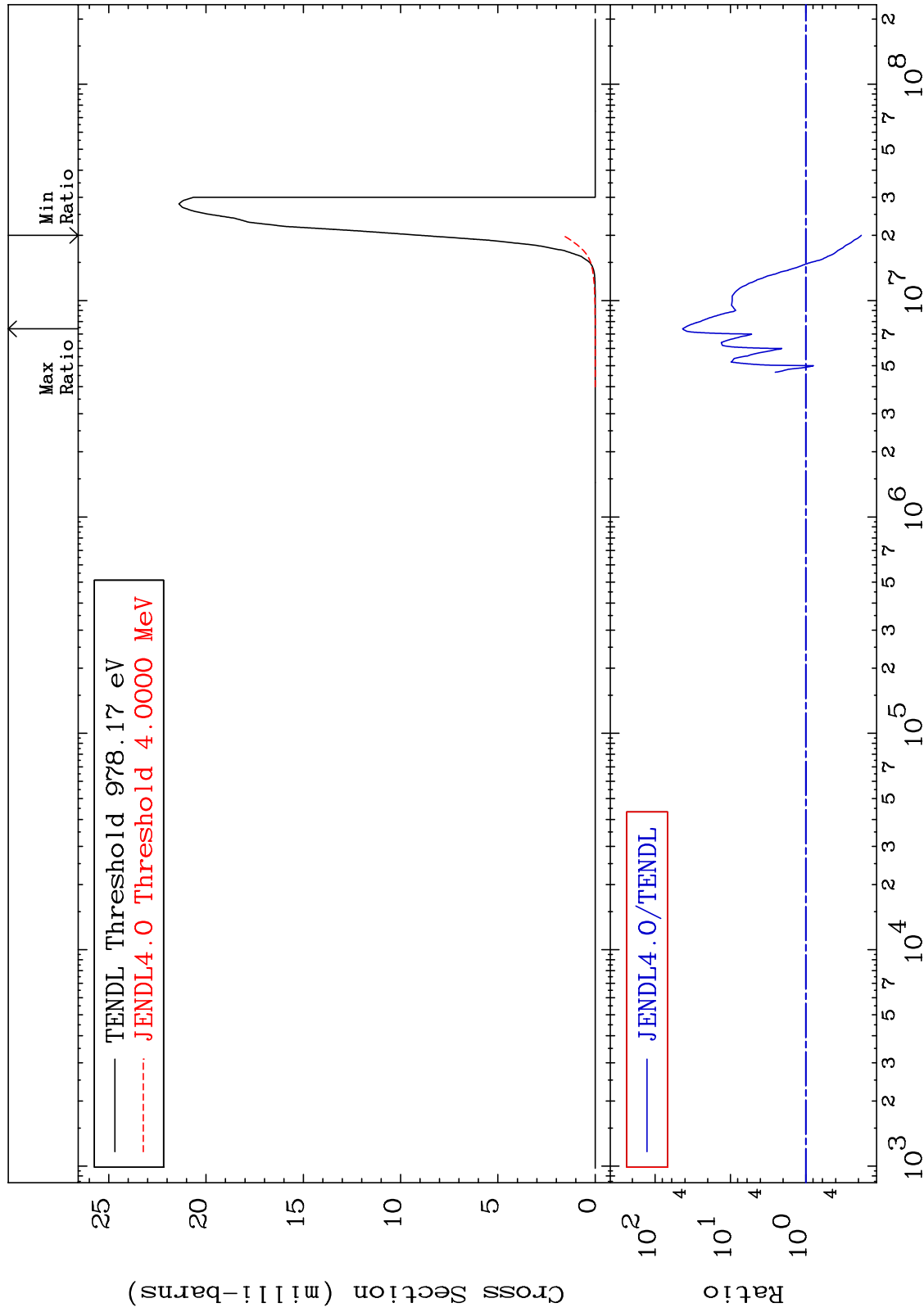
MAT 6831

(n, n')  $\alpha$

68-Er-164

Cross Section

-81.71 To 4191. %

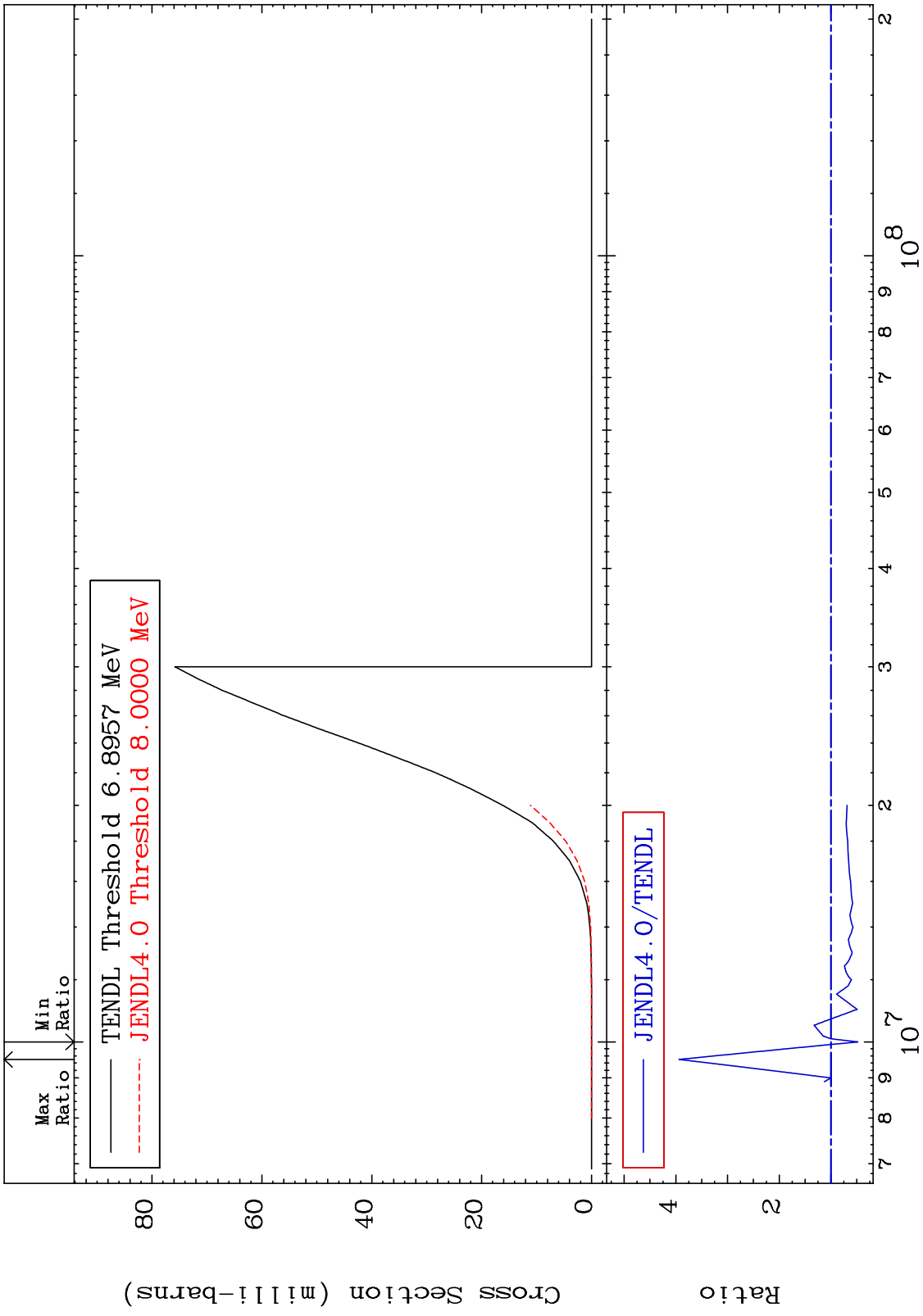


6

Incident Energy (eV)

68-Er-164

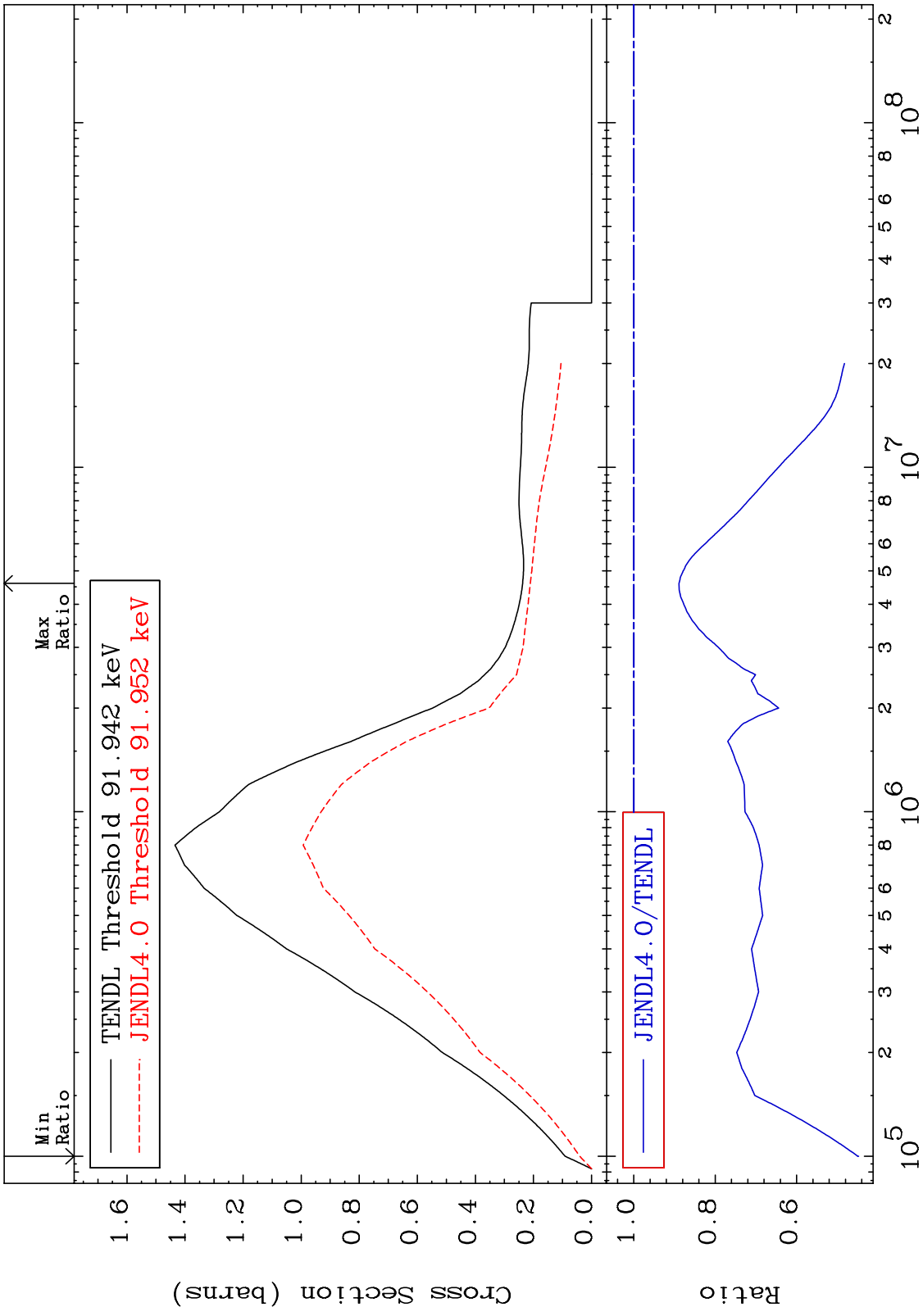
MAT 6831  $(n, n')$  p  $^{68}\text{Er-164}$   
 Cross Section -52.04 To 293.8 %



7 8 9 7 8 9 10<sup>7</sup> 10<sup>8</sup> 2 68-Er-164

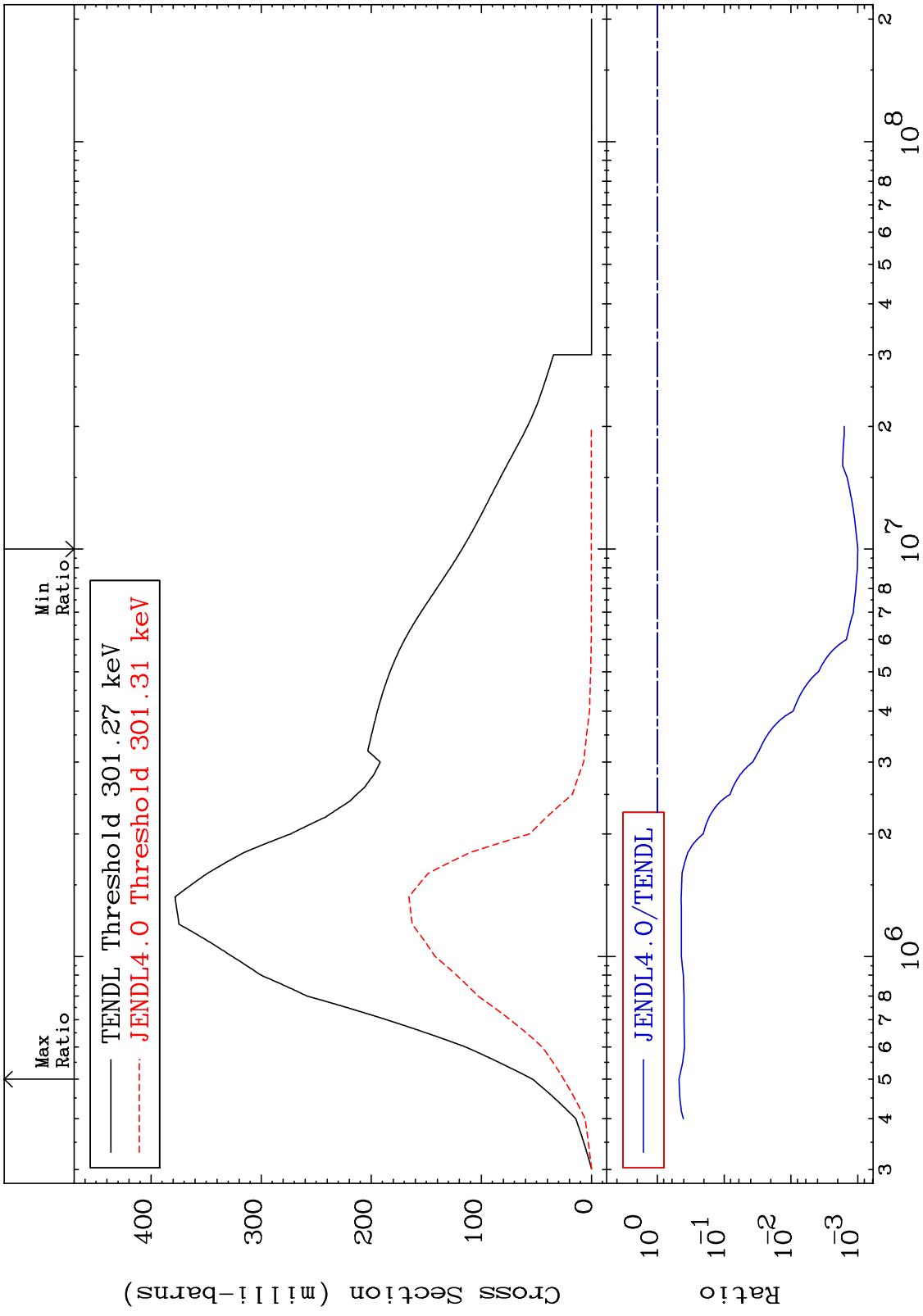


MAT 6831 MT= 51 (n,n') Level Cross Section 68-Er-164 -55.02 To -11.11%

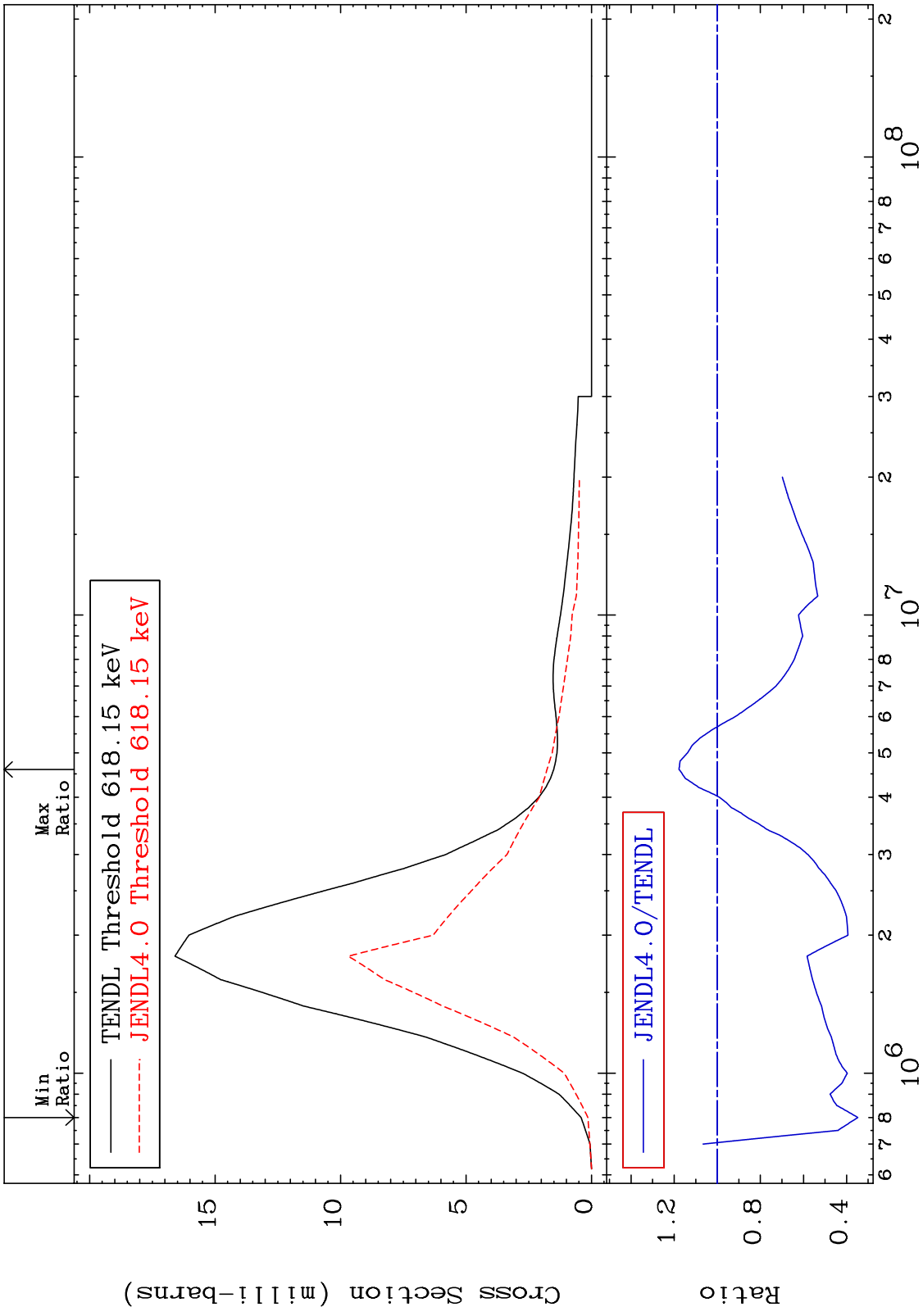


8 Incident Energy (eV) 68-Er-164

MAT 6831 MT= 52 (n,n') Level Cross Section 68-Er-164 -99.90 To -52.78%

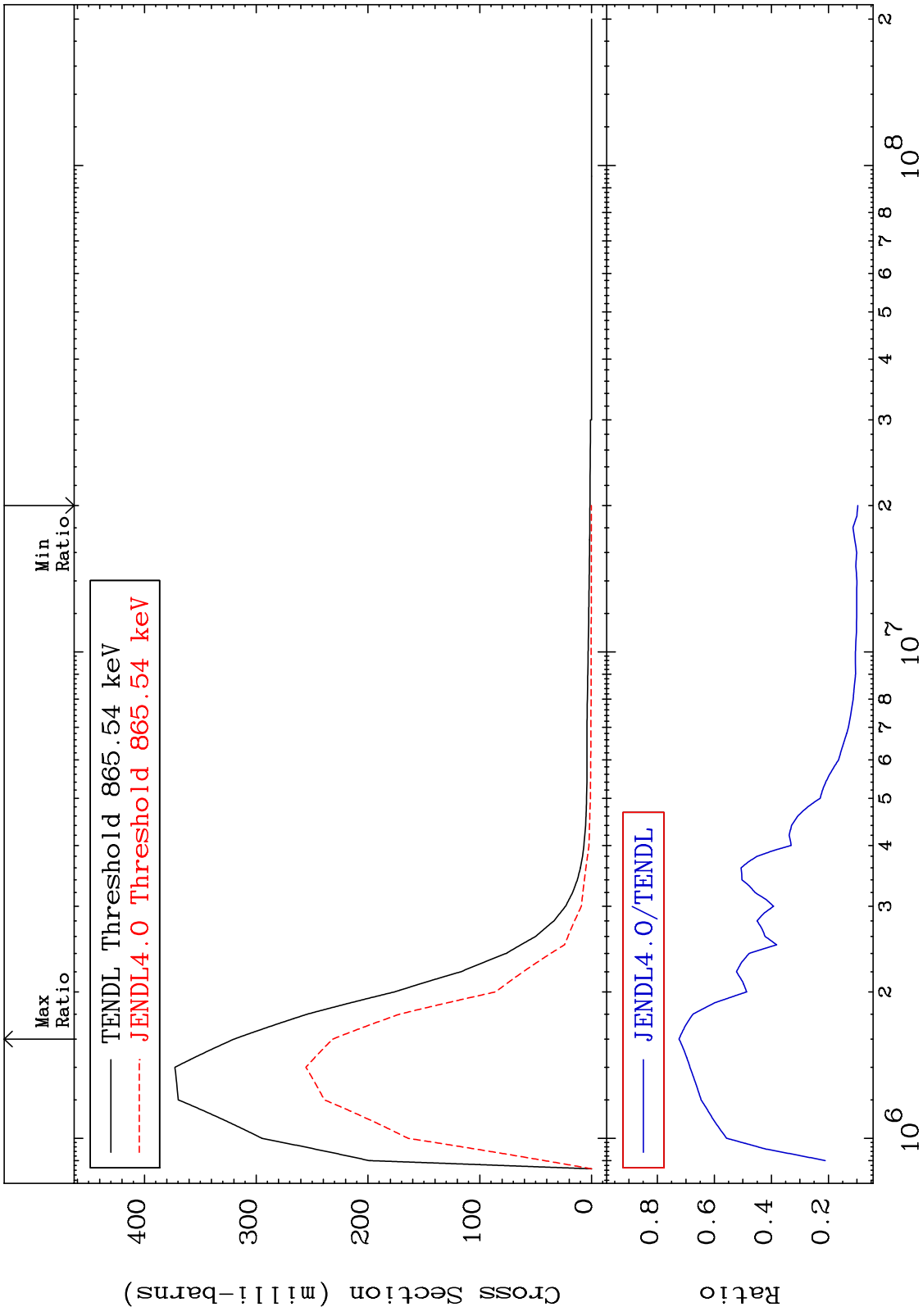


MAT 6831 MT= 53 (n,n') Level Cross Section 68-Er-164  
 -65.21 To 17.75 %



68-Er-164

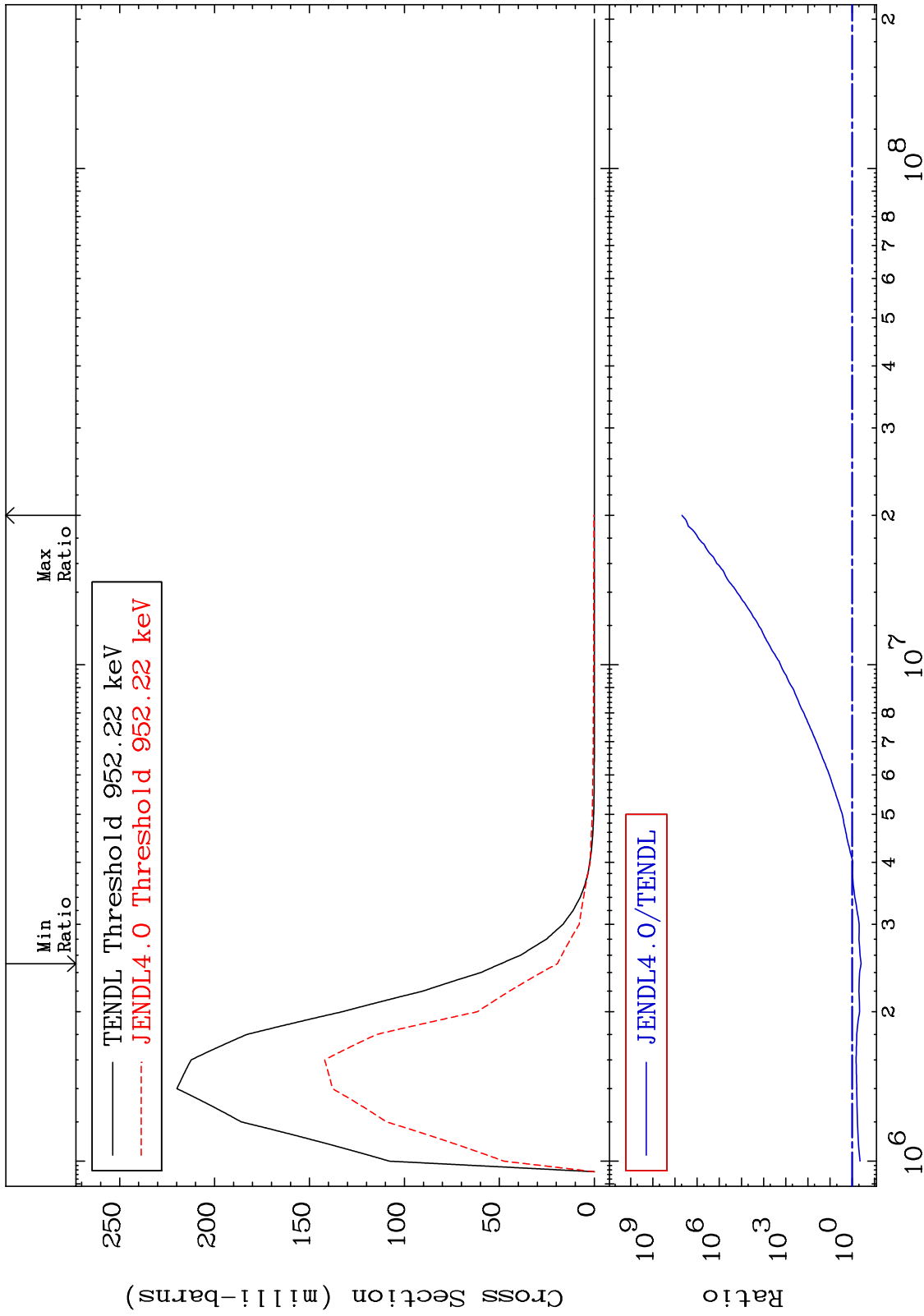
MAT 6831 MT= 54 (n,n') Level Cross Section 68-Er-164  
 -90.33 To -27.61%



MAT 6831

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

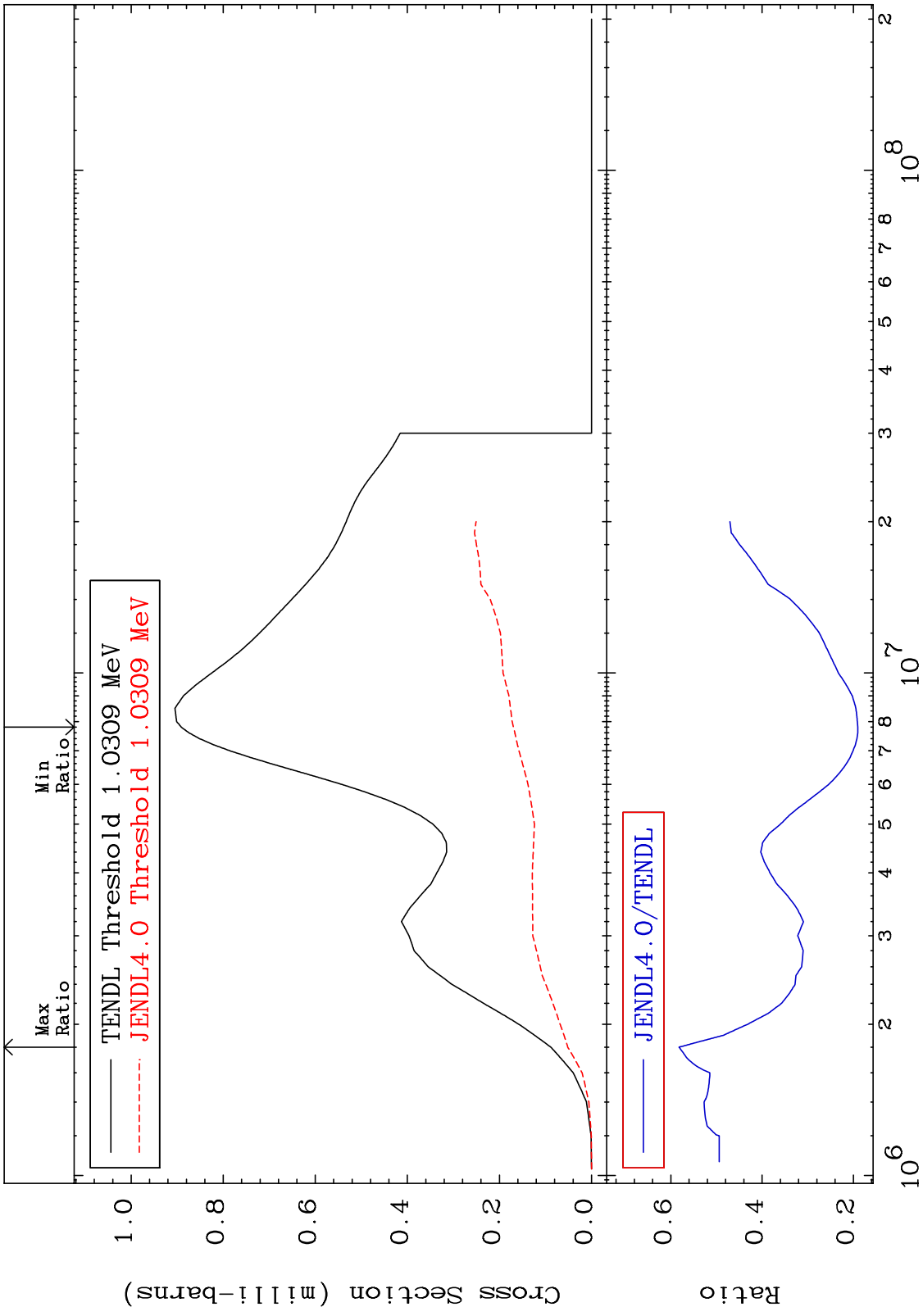
68-Er-164  
-60.53 To 9999. %



Incident Energy (eV)

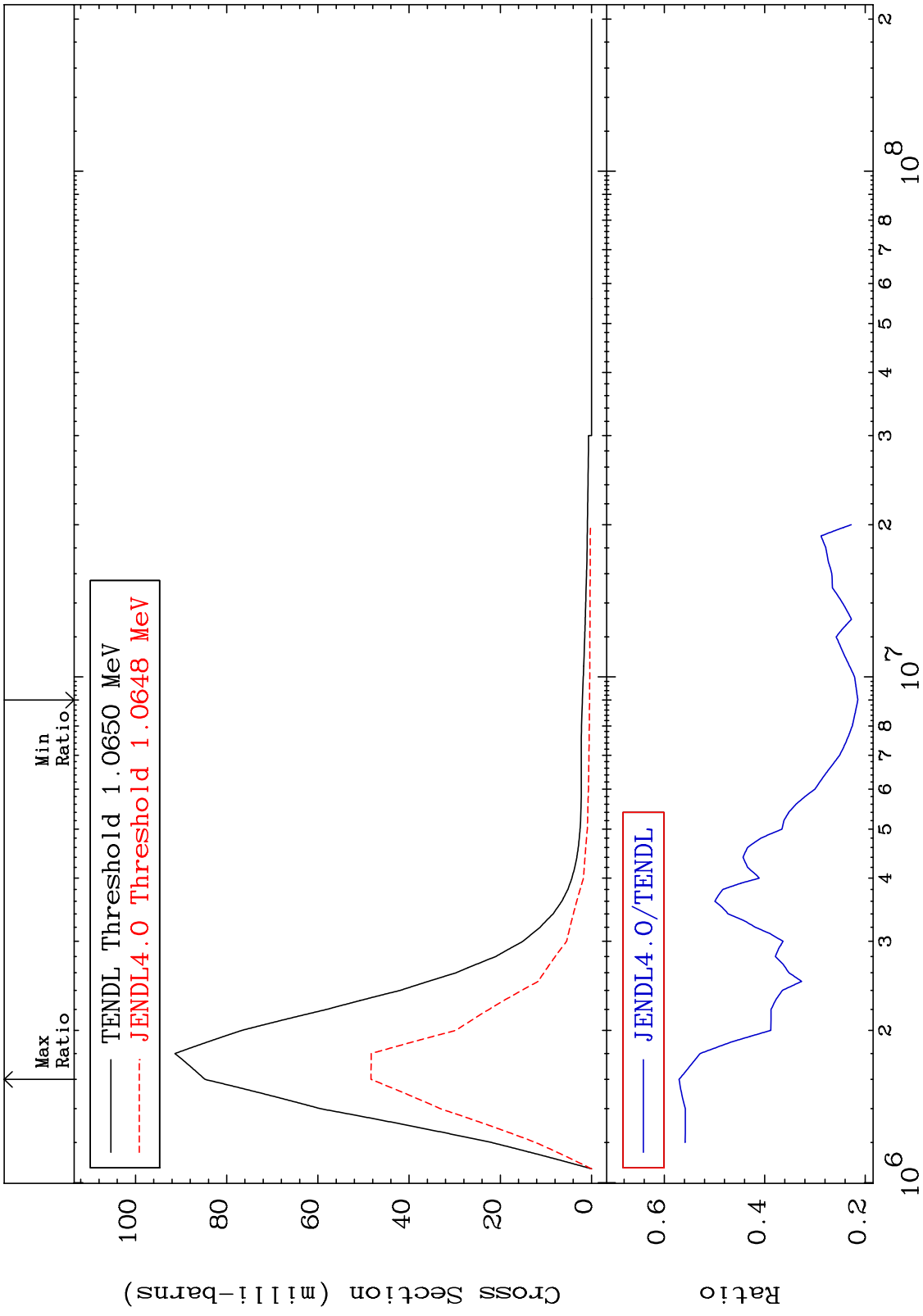
68-Er-164

MAT 6831      MT= 56 (n,n') Level      68-Er-164  
 Cross Section      -80.97 To -41.79%



13      68-Er-164

MAT 6831 MT= 57 (n,n') Level Cross Section 68-Er-164  
 -78.55 To -42.94%

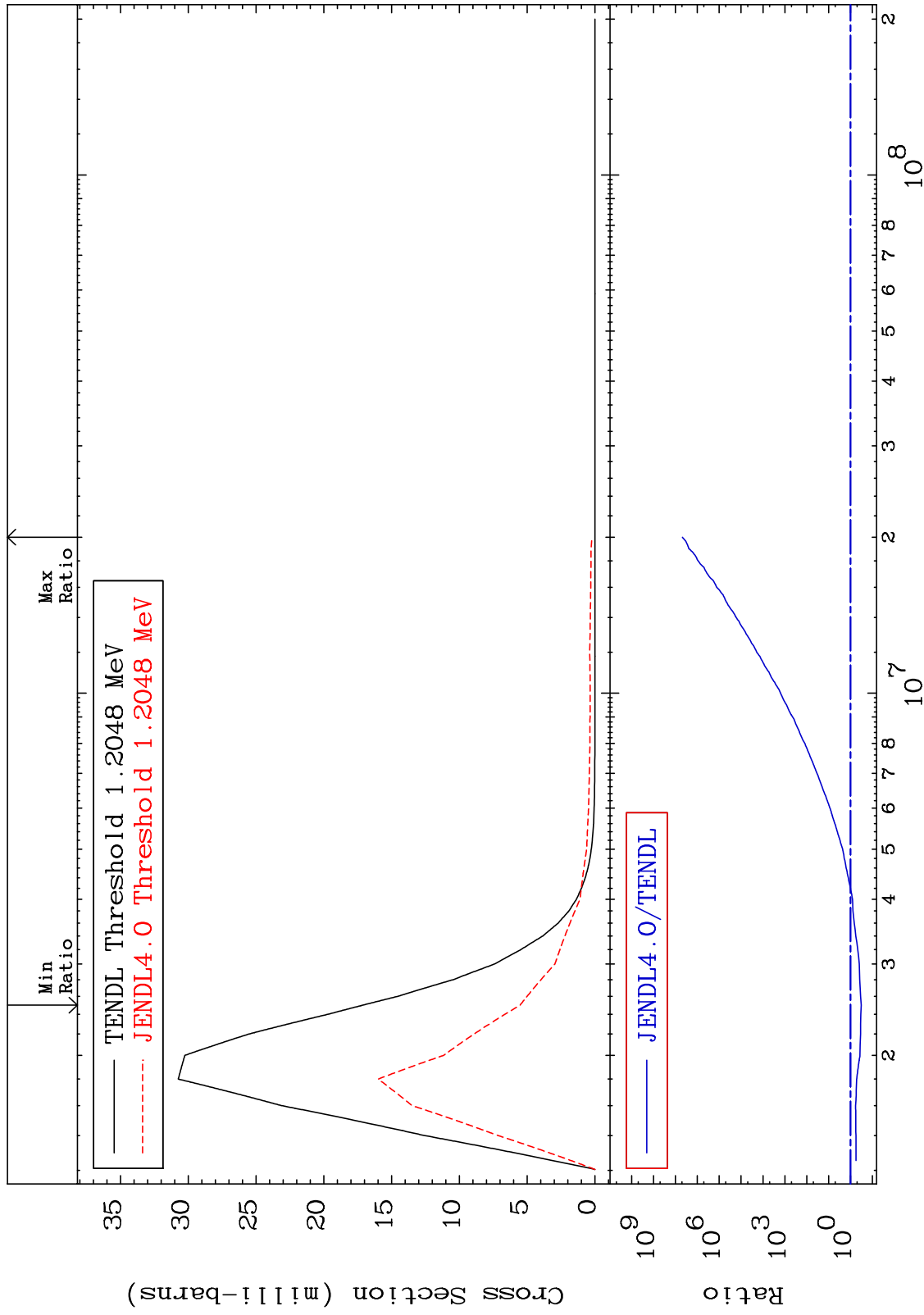


14 68-Er-164

MAT 6831

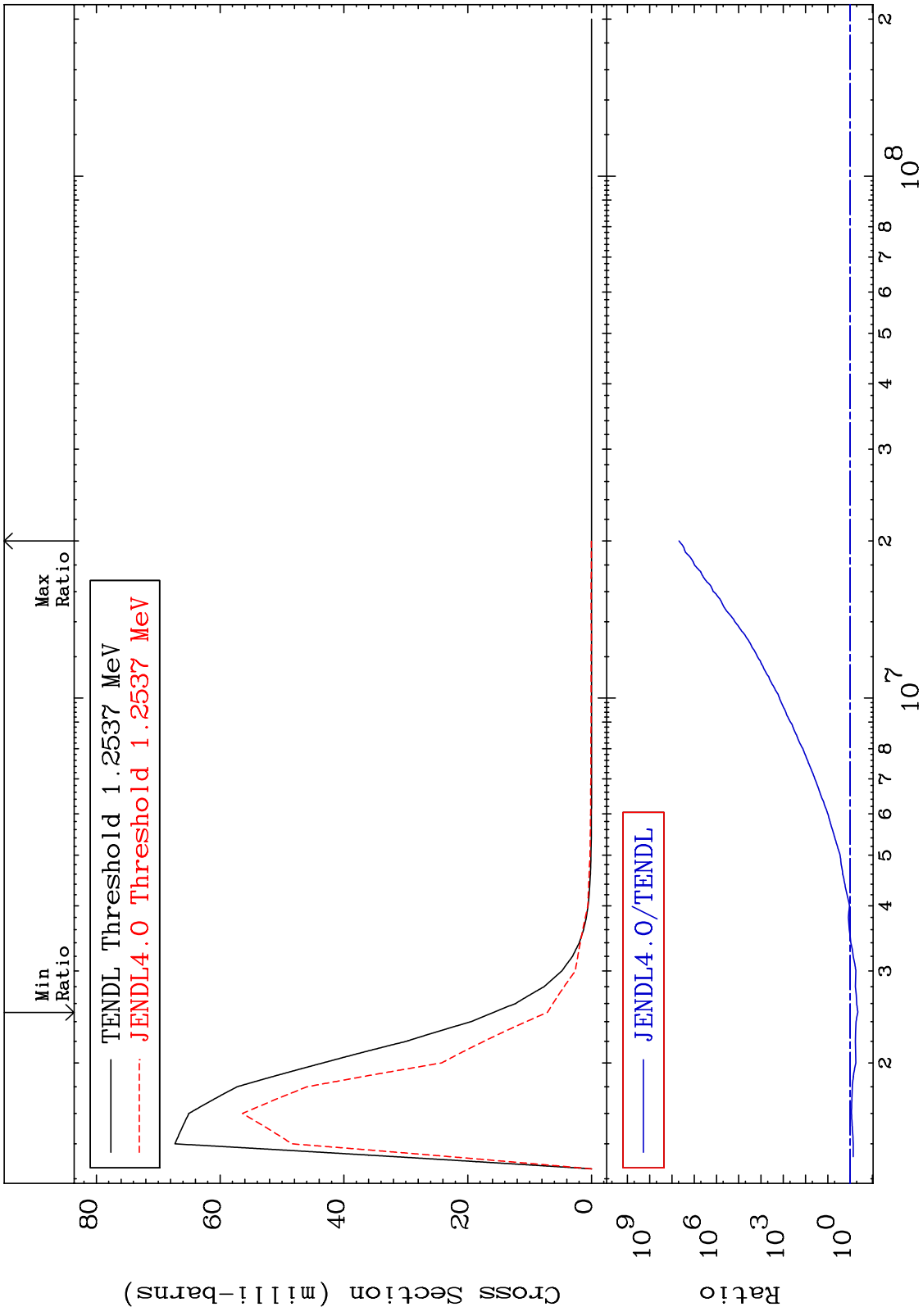
MT= 58 (n,n') Level  
Cross Section

68-Er-164  
-67.77 To 9999. %

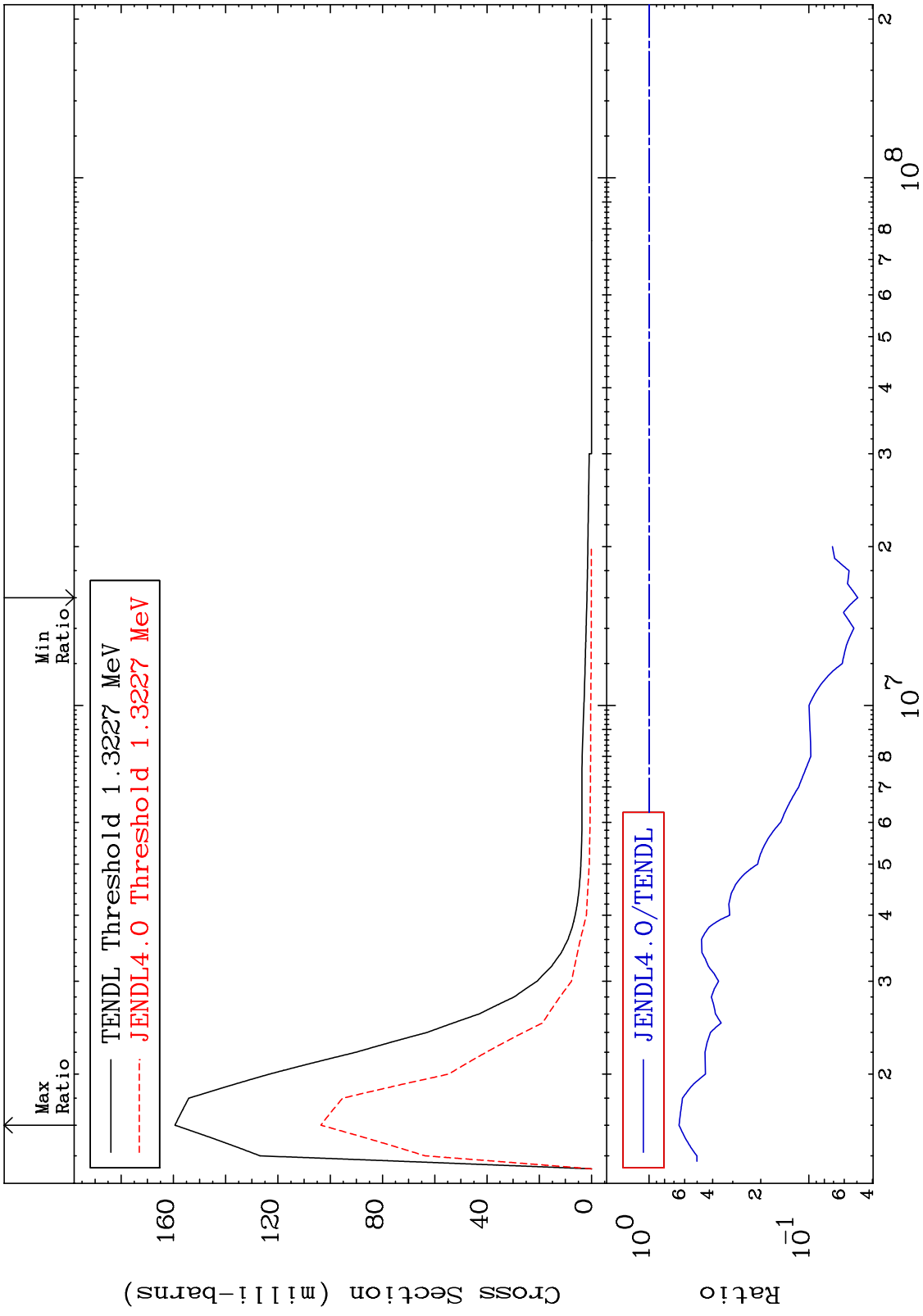




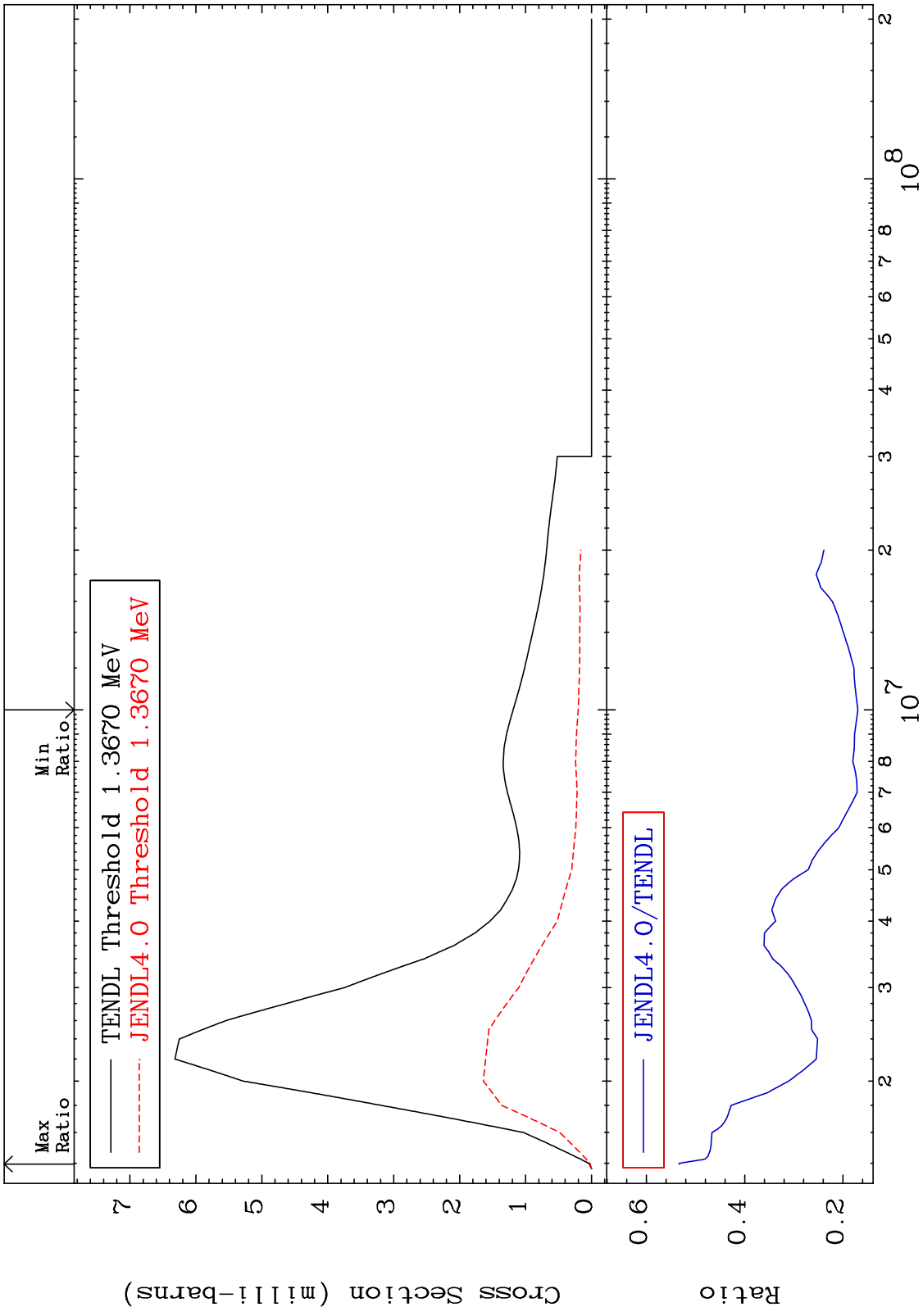
MAT 6831 MT= 59 (n,n') Level Cross Section 68-Er-164  
 -55.10 To 9999. %



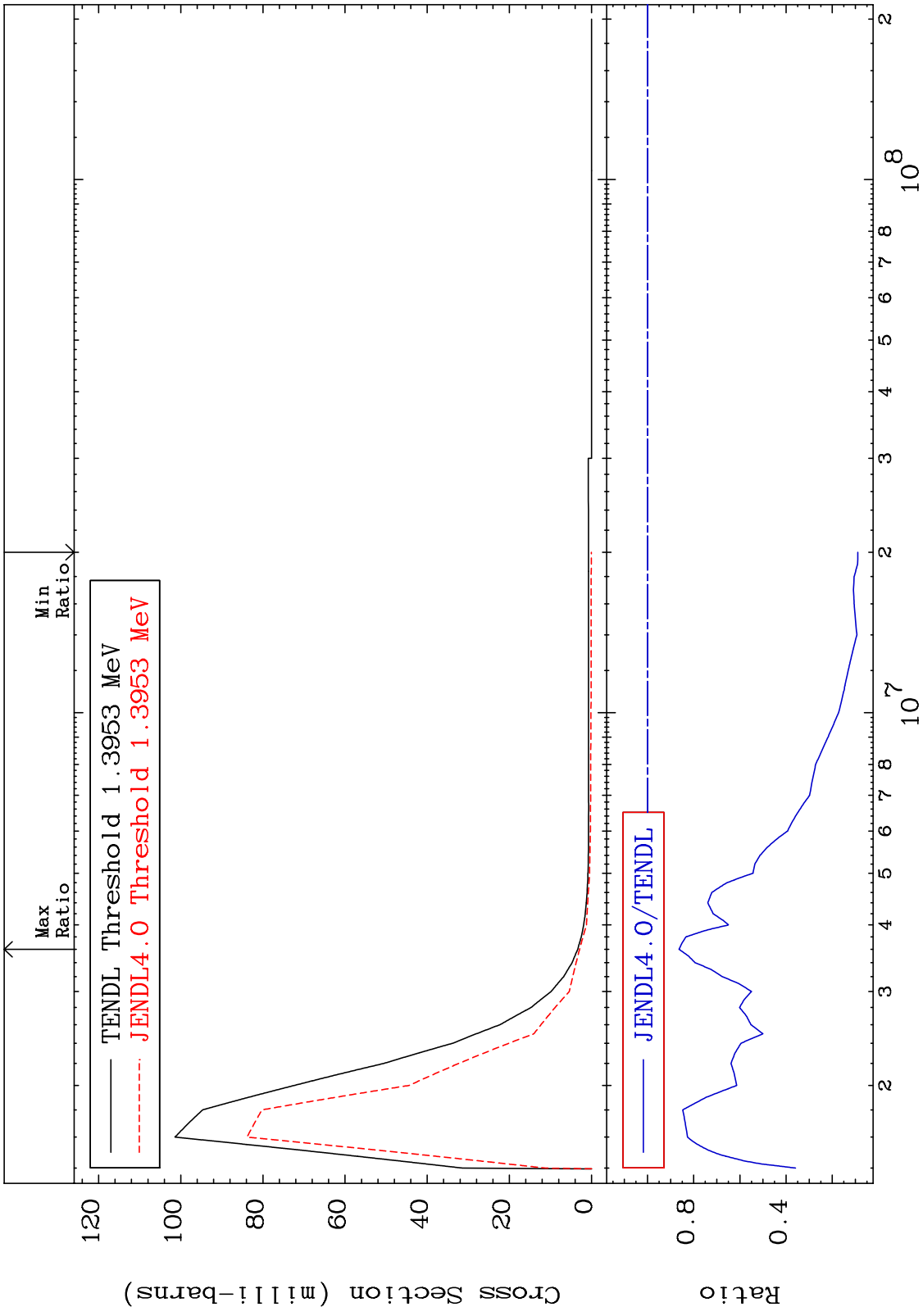
MAT 6831 MT= 60 (n,n') Level Cross Section 68-Er-164  
 -95.06 To -35.03%



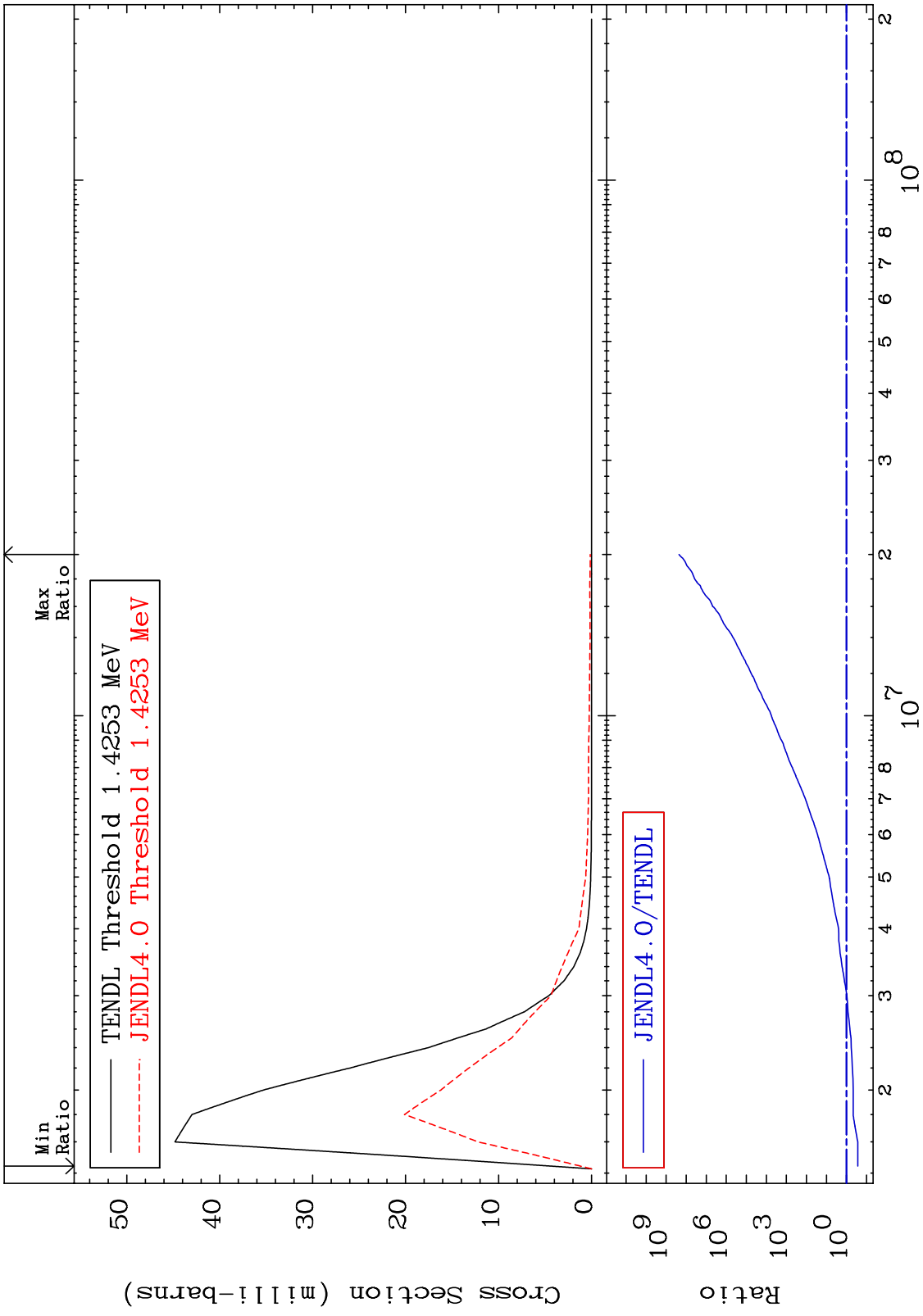
MAT 6831 MT= 61 (n,n') Level Cross Section 68-Er-164 -83.01 To -46.66%



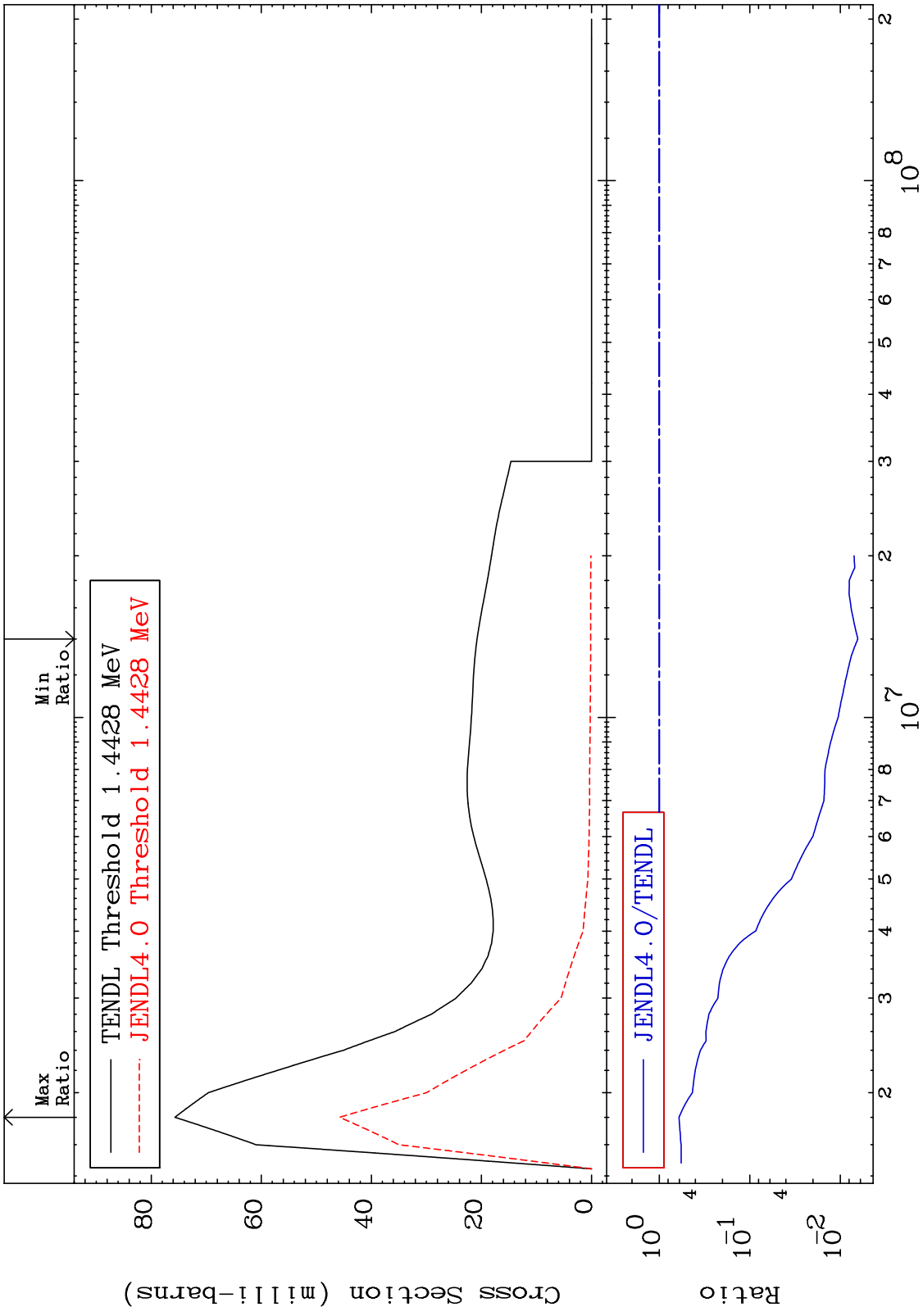
MAT 6831 MT= 62 (n,n') Level Cross Section 68-Er-164 -91.05 To -13.65%



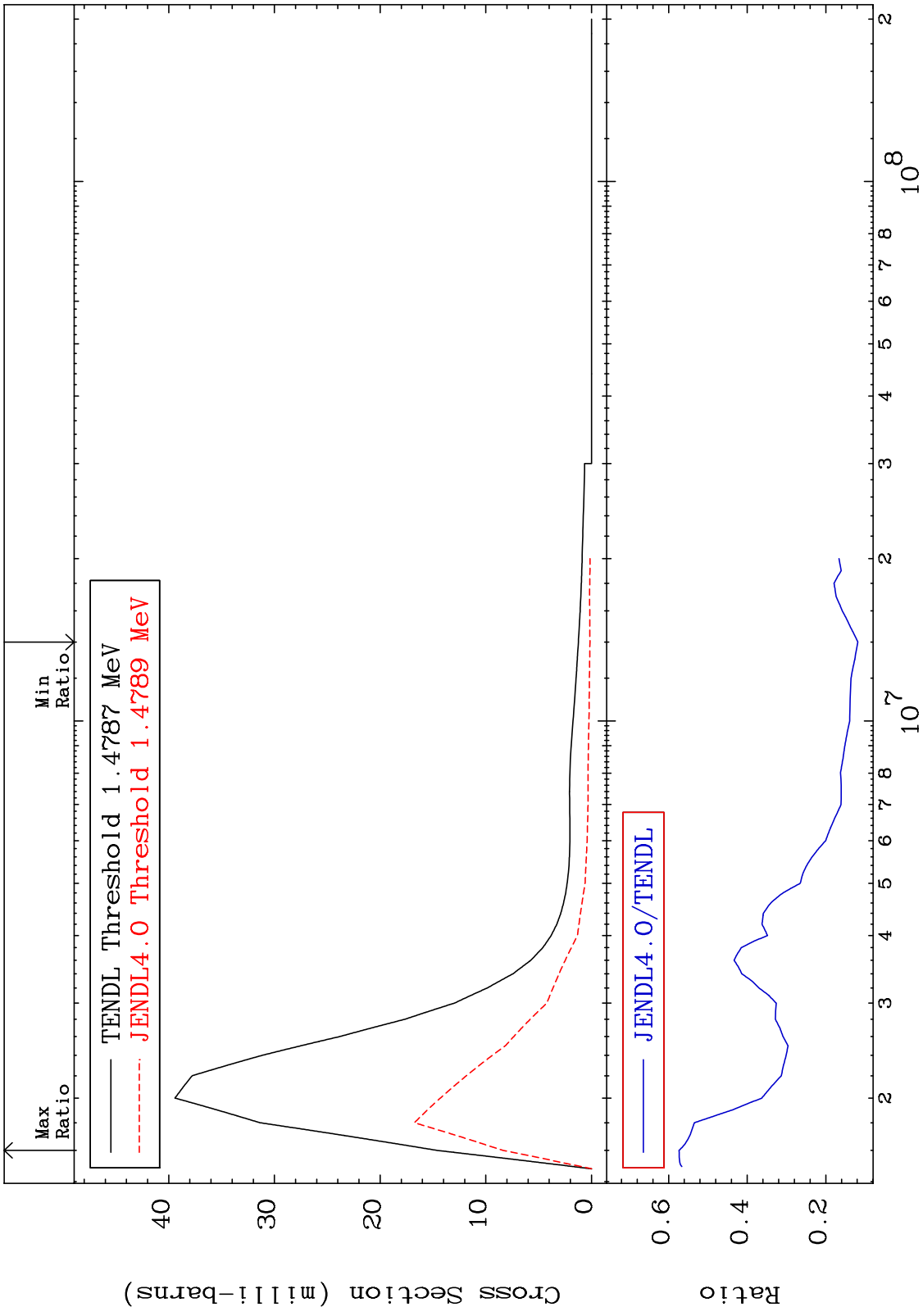
MAT 6831 MT= 63 (n,n') Level Cross Section 68-Er-164  
 -72.81 To 9999. %



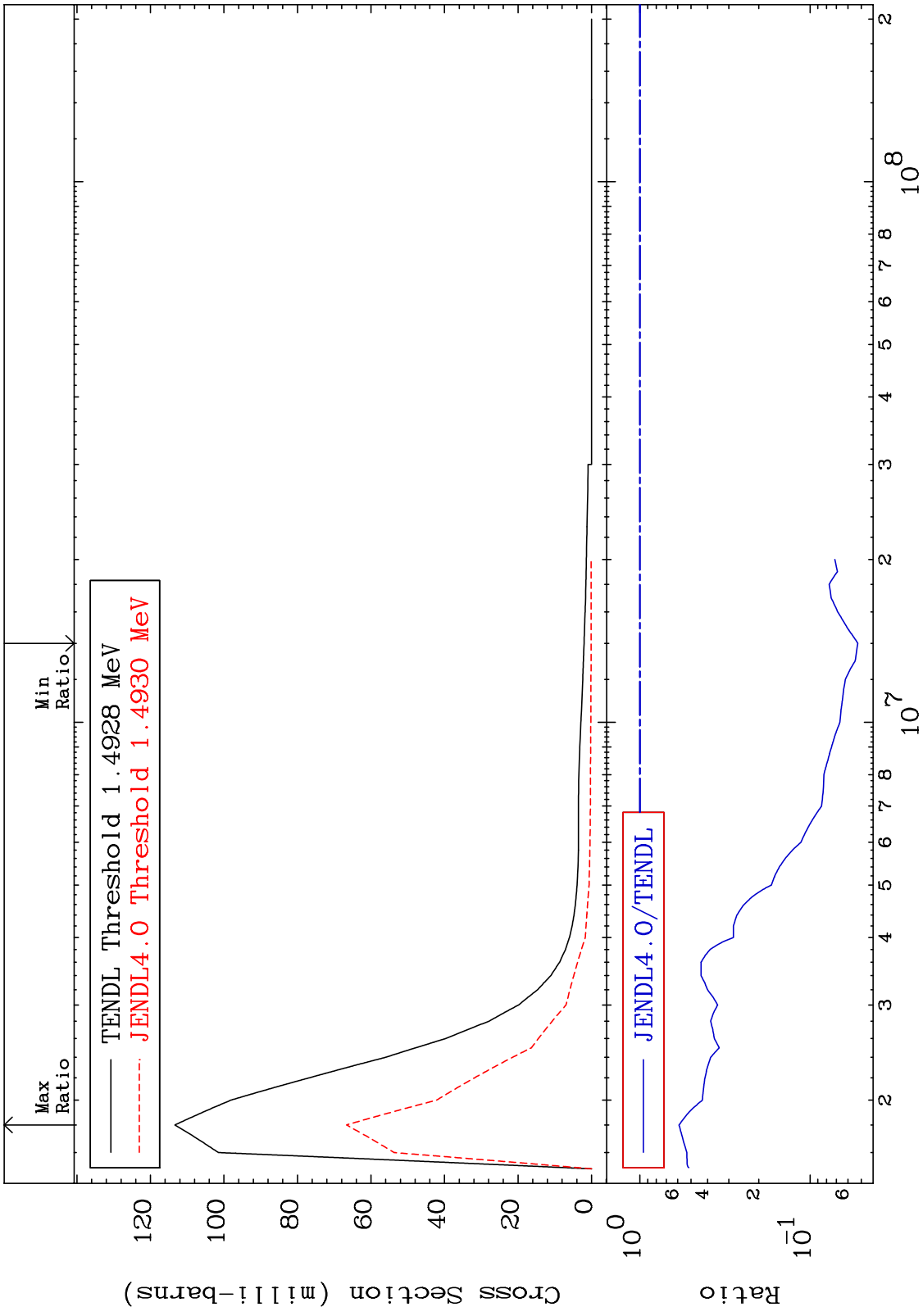
MAT 6831      MT= 64 (n,n') Level Cross Section      68-Er-164  
 -99.36 To -39.52%



MAT 6831 MT= 65 (n,n') Level Cross Section 68-Er-164 -88.15 To -42.66%



MAT 6831      MT= 66 (n,n') Level      68-Er-164  
 Cross Section      -94.76 To -41.16%

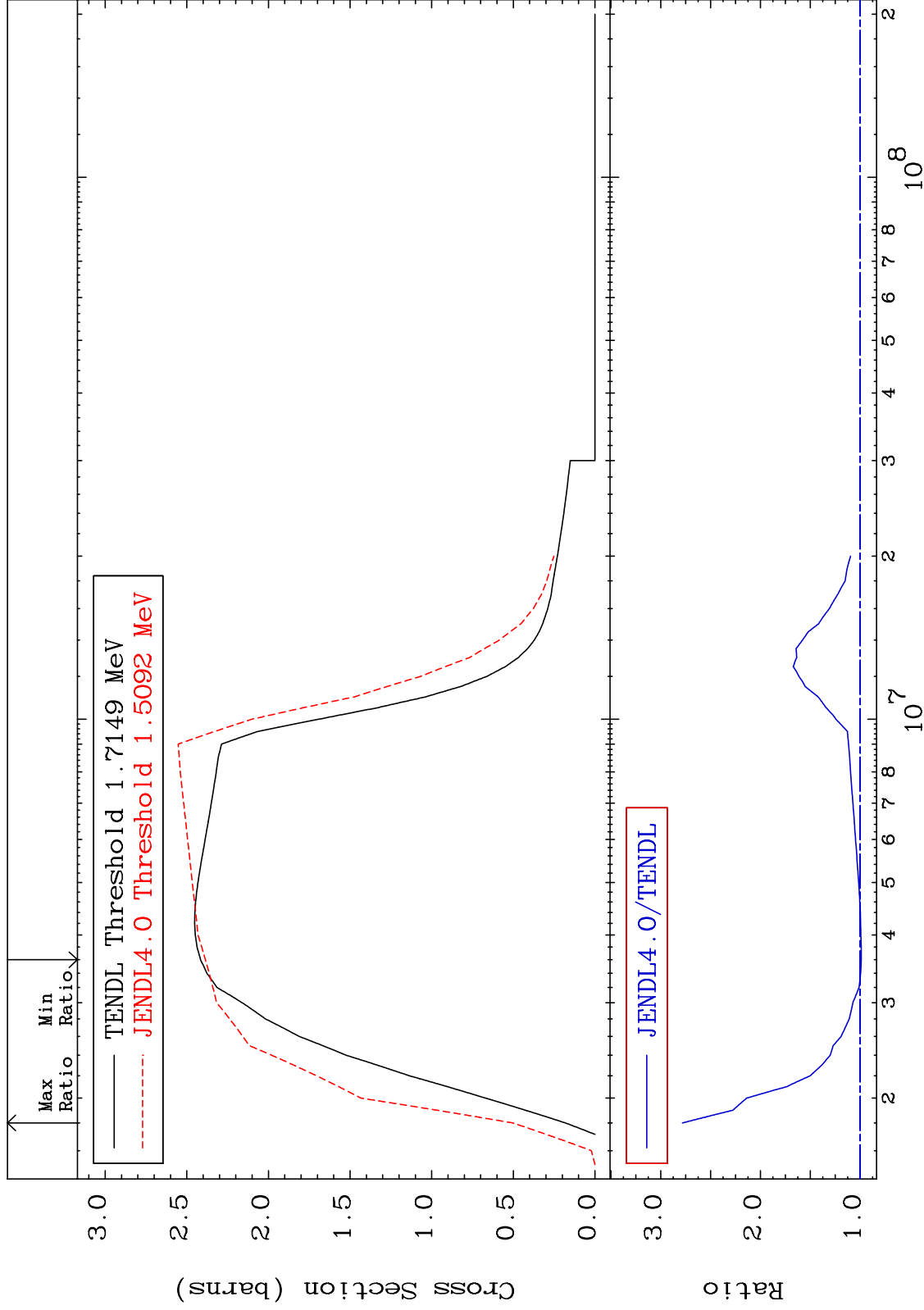




MAT 6831

(n, n') Continuum  
Cross Section

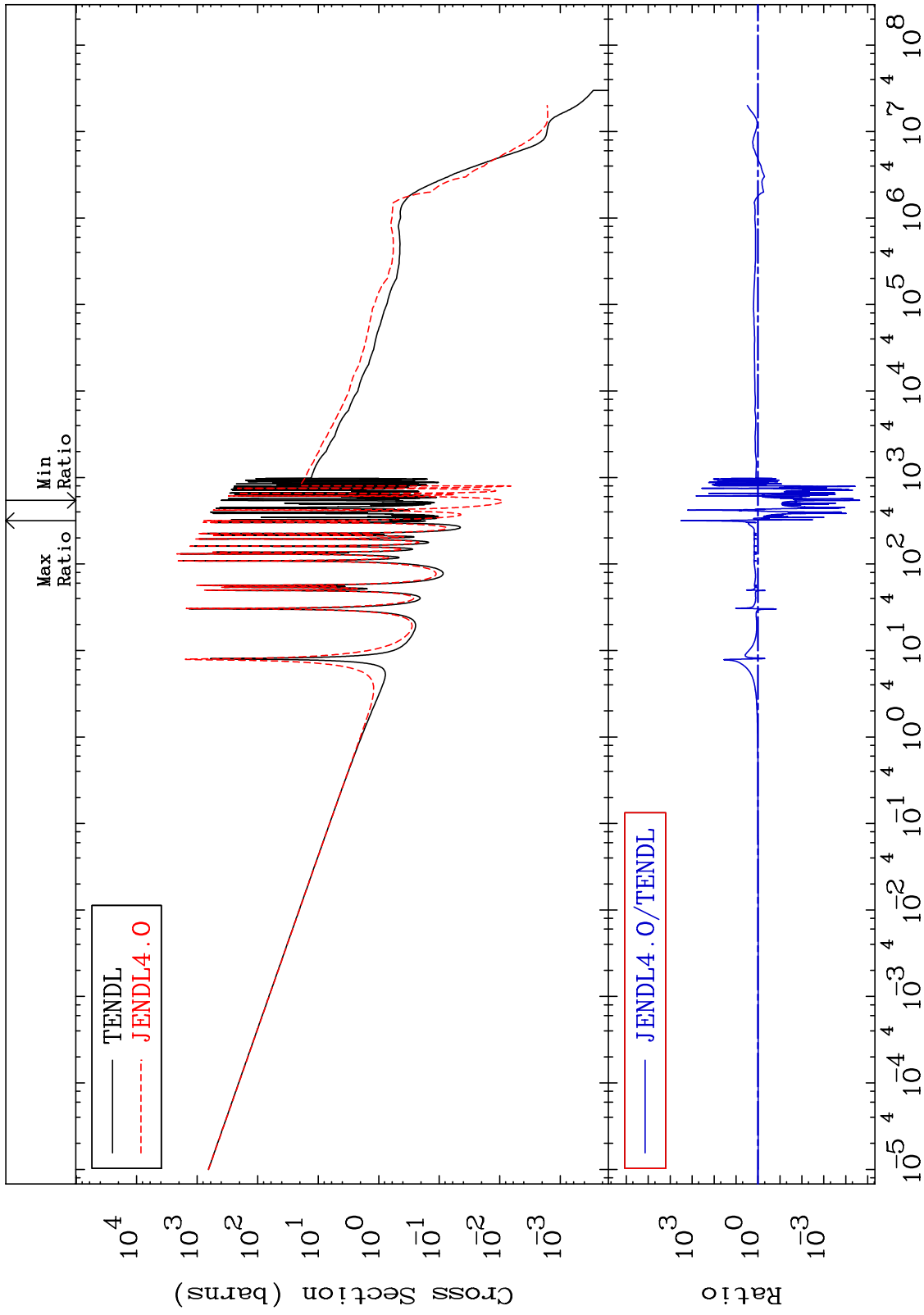
68-Er-164  
-1.225 To 178.2 %



MAT 6831

(n,  $\gamma$ )  
Cross Section

68-Er-164  
-100.0 To 9999. %



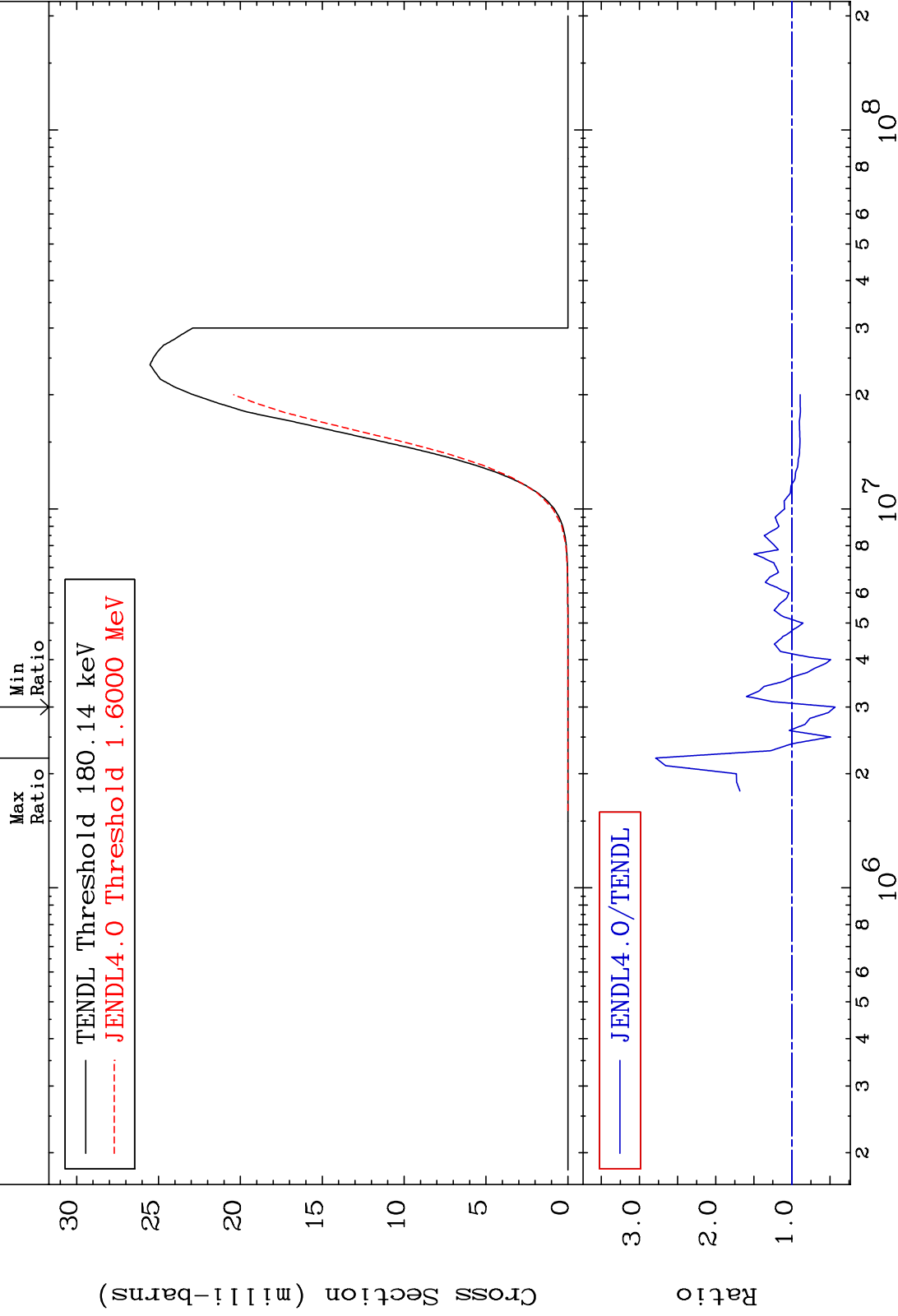
MAT 6831

(n,p)

68-Er-164

-56.63 To 178.6 %

Cross Section



26

68-Er-164

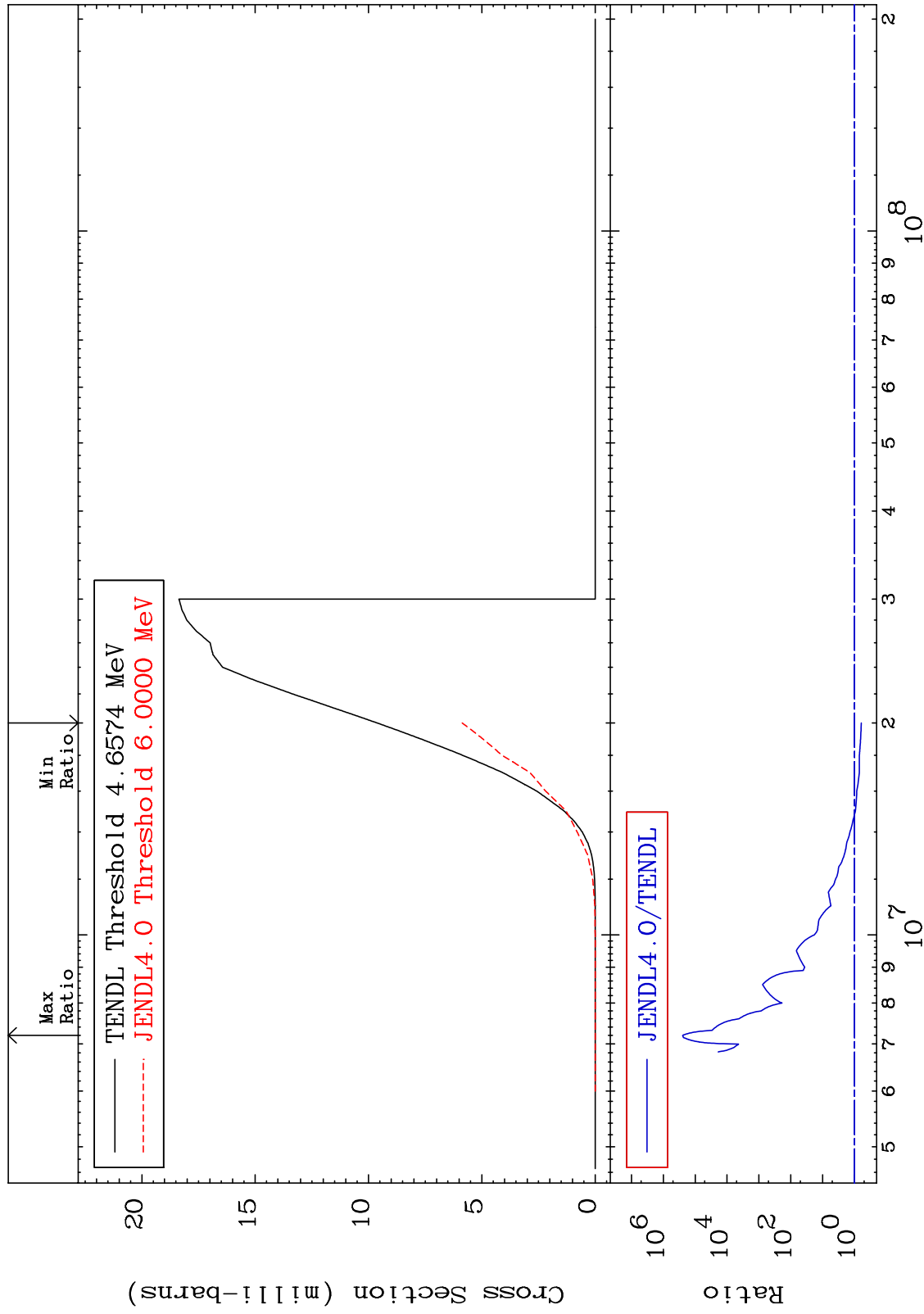
MAT 6831

(n,d)

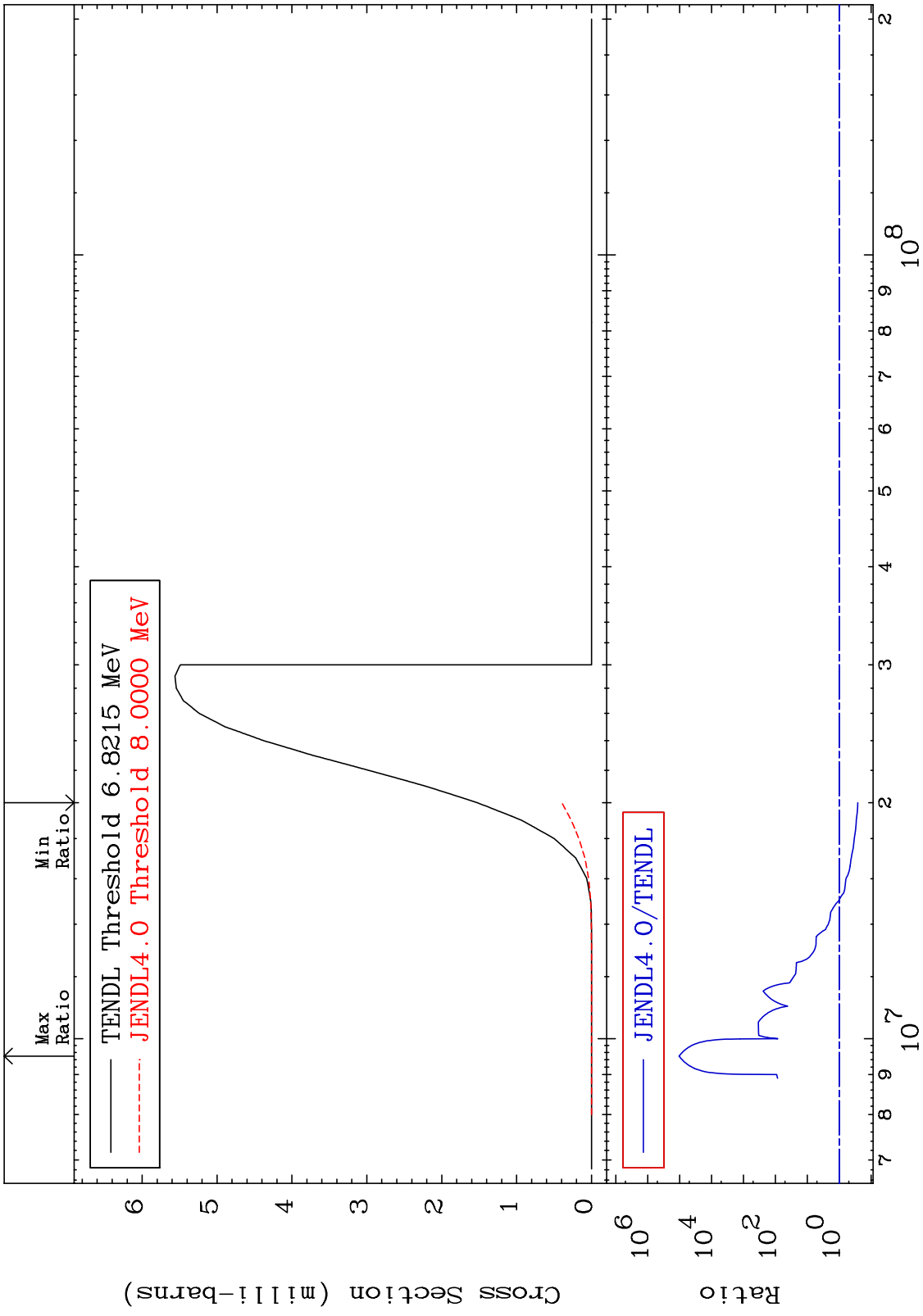
68-Er-164

Cross Section

-39.04 To 9999. %



MAT 6831 (n,t) Cross Section 68-Er-164 -73.96 To 9999. %



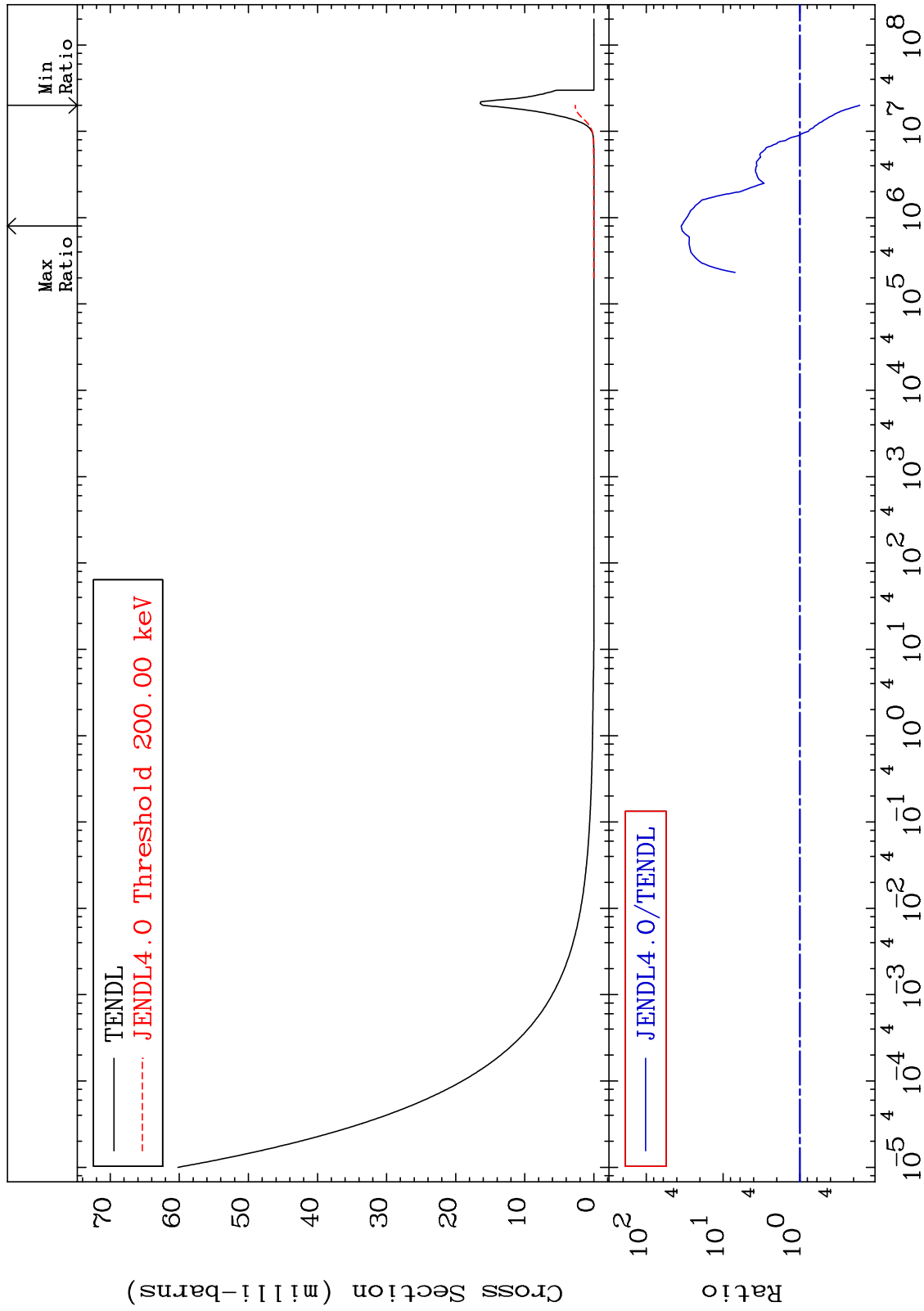
MAT 6831

(n,  $\alpha$ )

68-Er-164

Cross Section

-83.37 To 3407. %



29

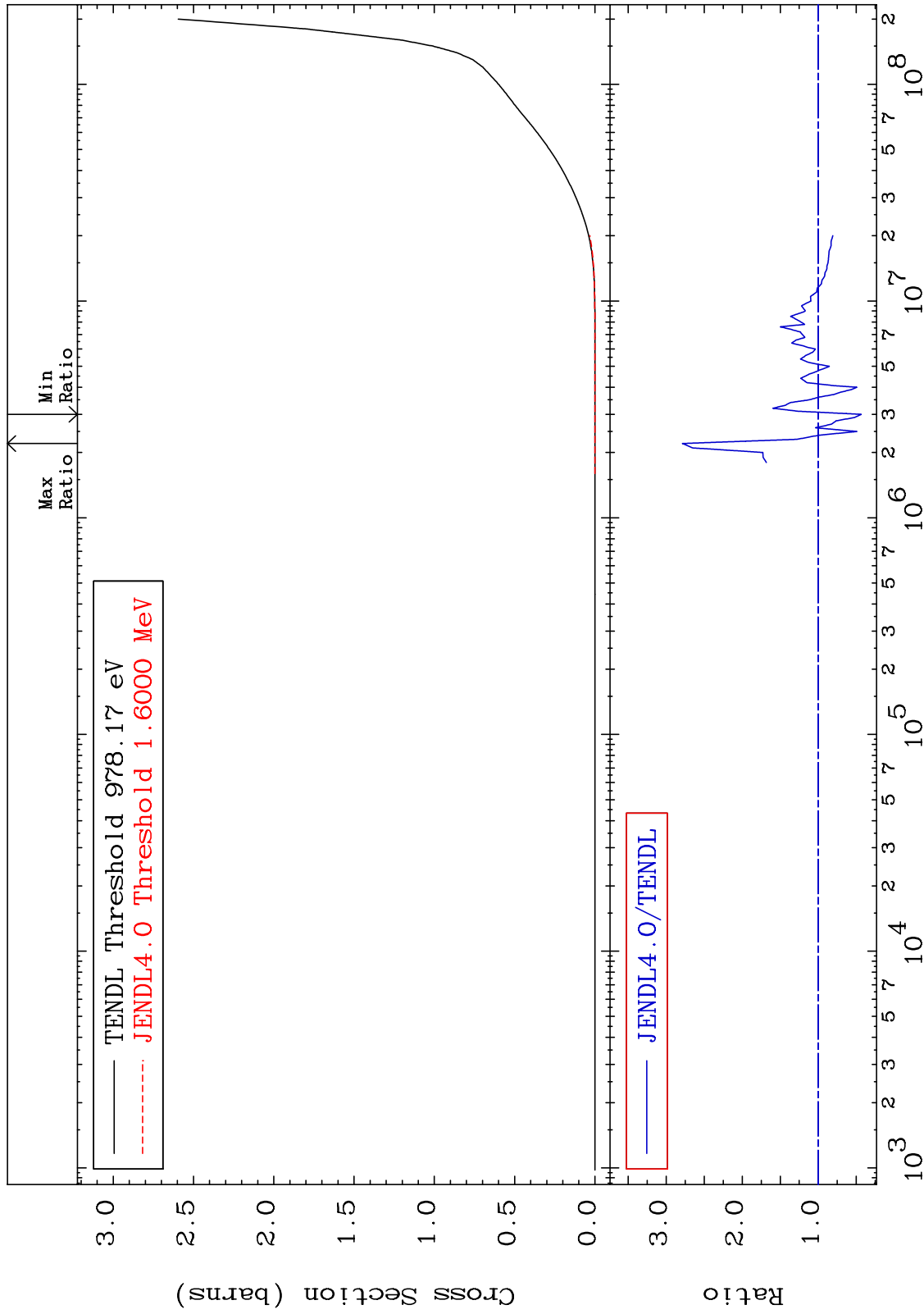
Incident Energy (eV)

68-Er-164

MAT 6831

Hydrogen Production  
Cross Section

68-Er-164  
-56.63 To 178.6 %



Incident Energy (eV)

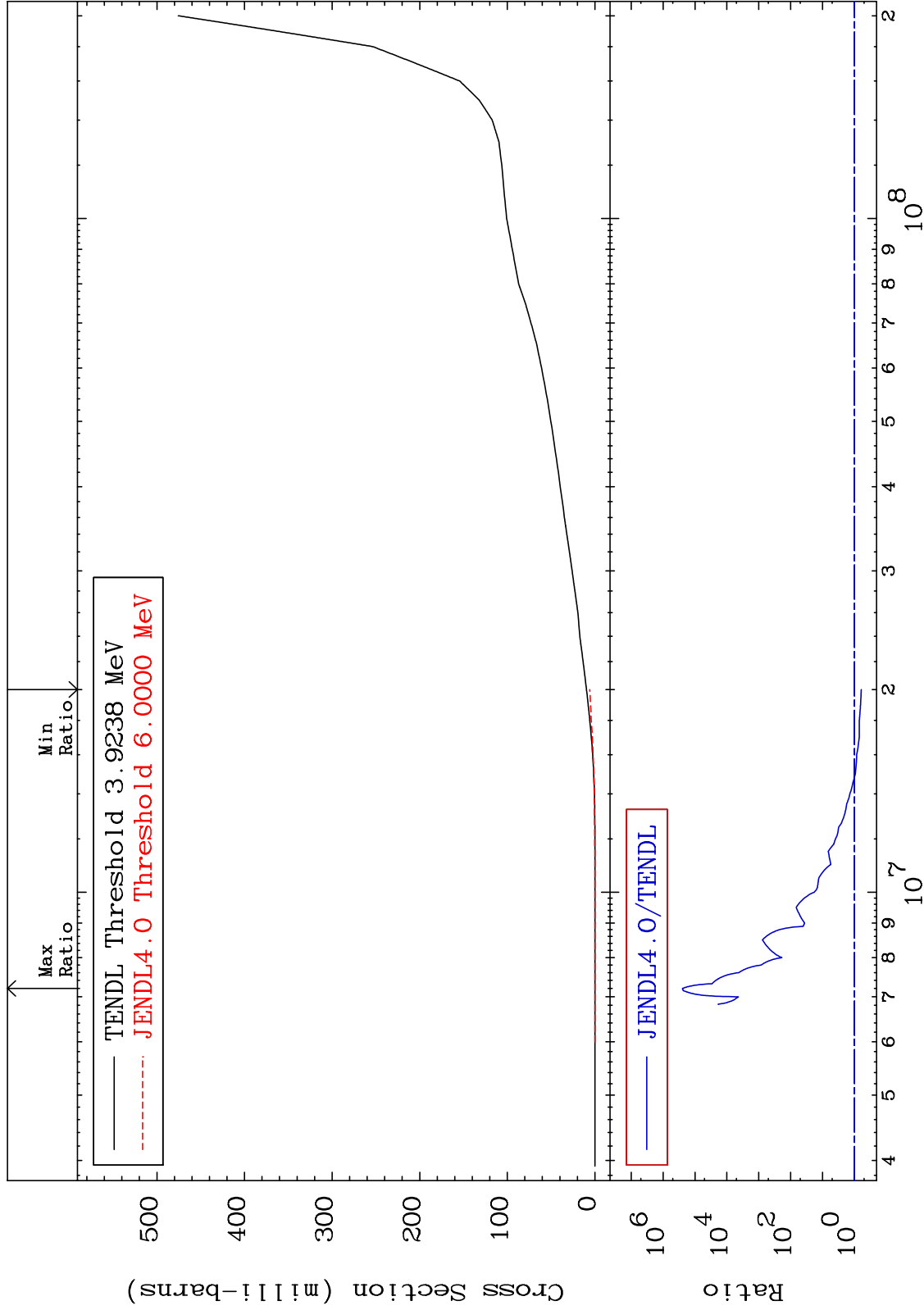
68-Er-164

30

MAT 6831

Deuterium Production  
Cross Section

68-Er-164  
-39.07 To 9999. %

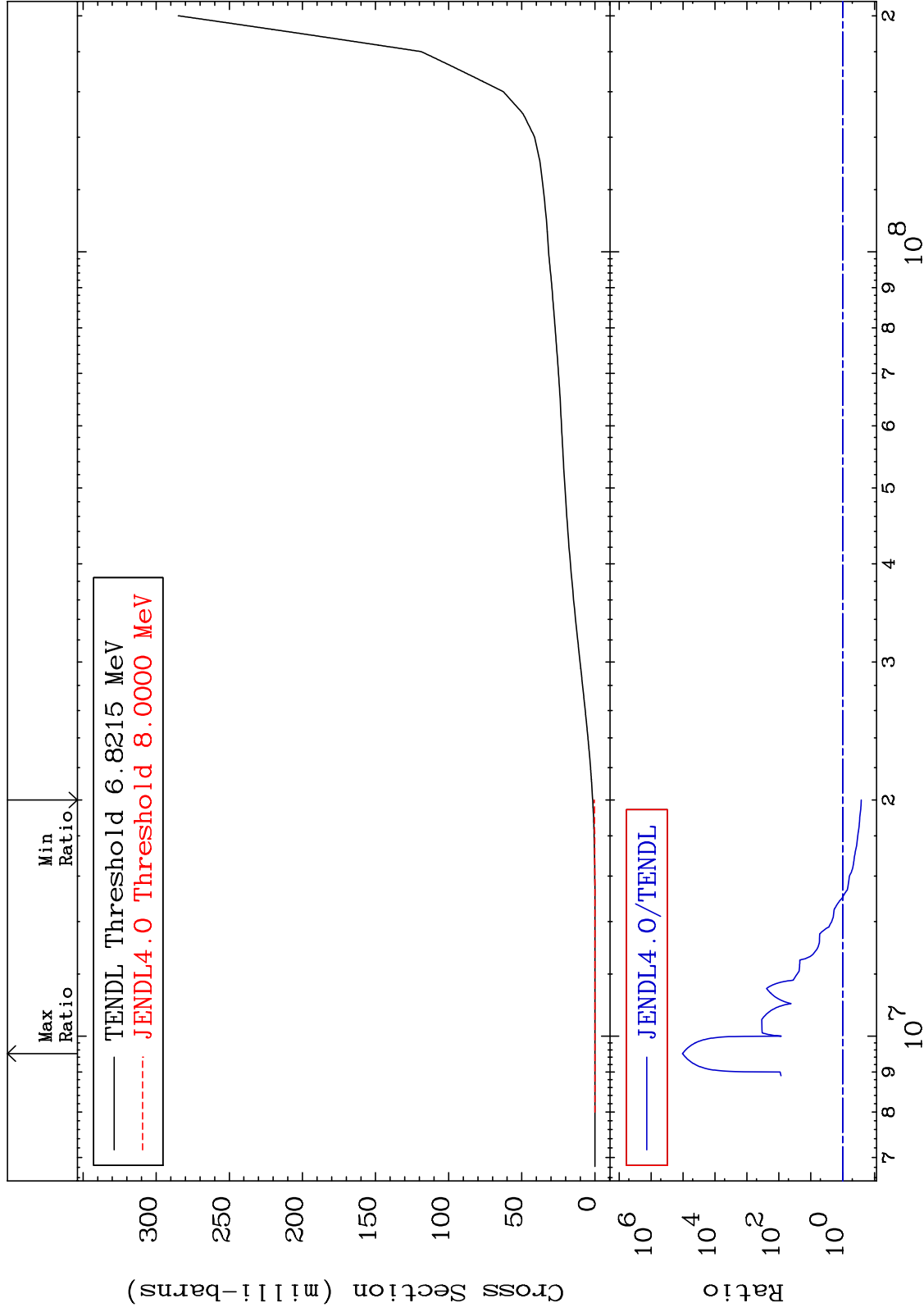




MAT 6831

Tritium Production  
Cross Section

68-Er-164  
-73.96 To 9999. %



32

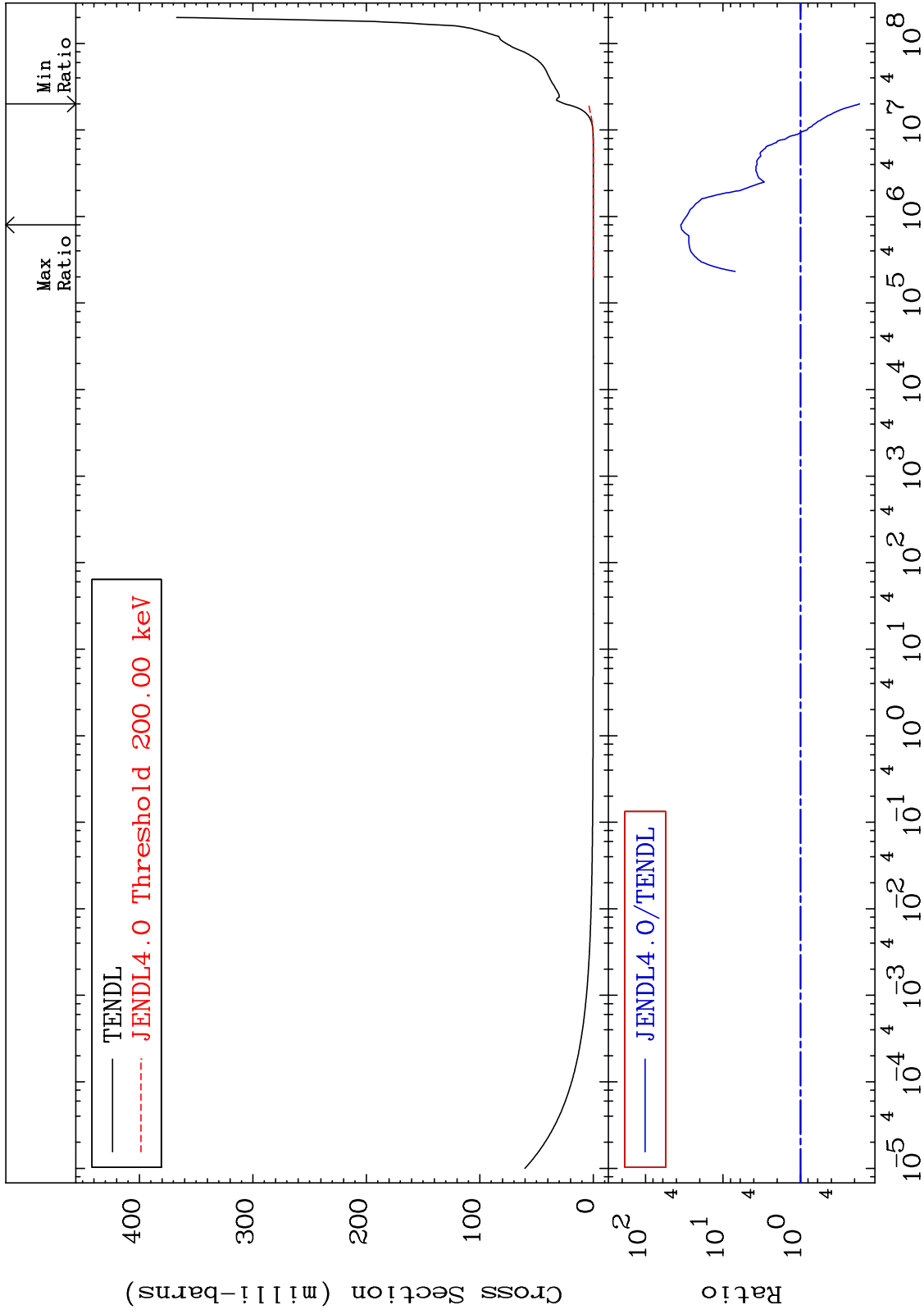
Incident Energy (eV)

68-Er-164

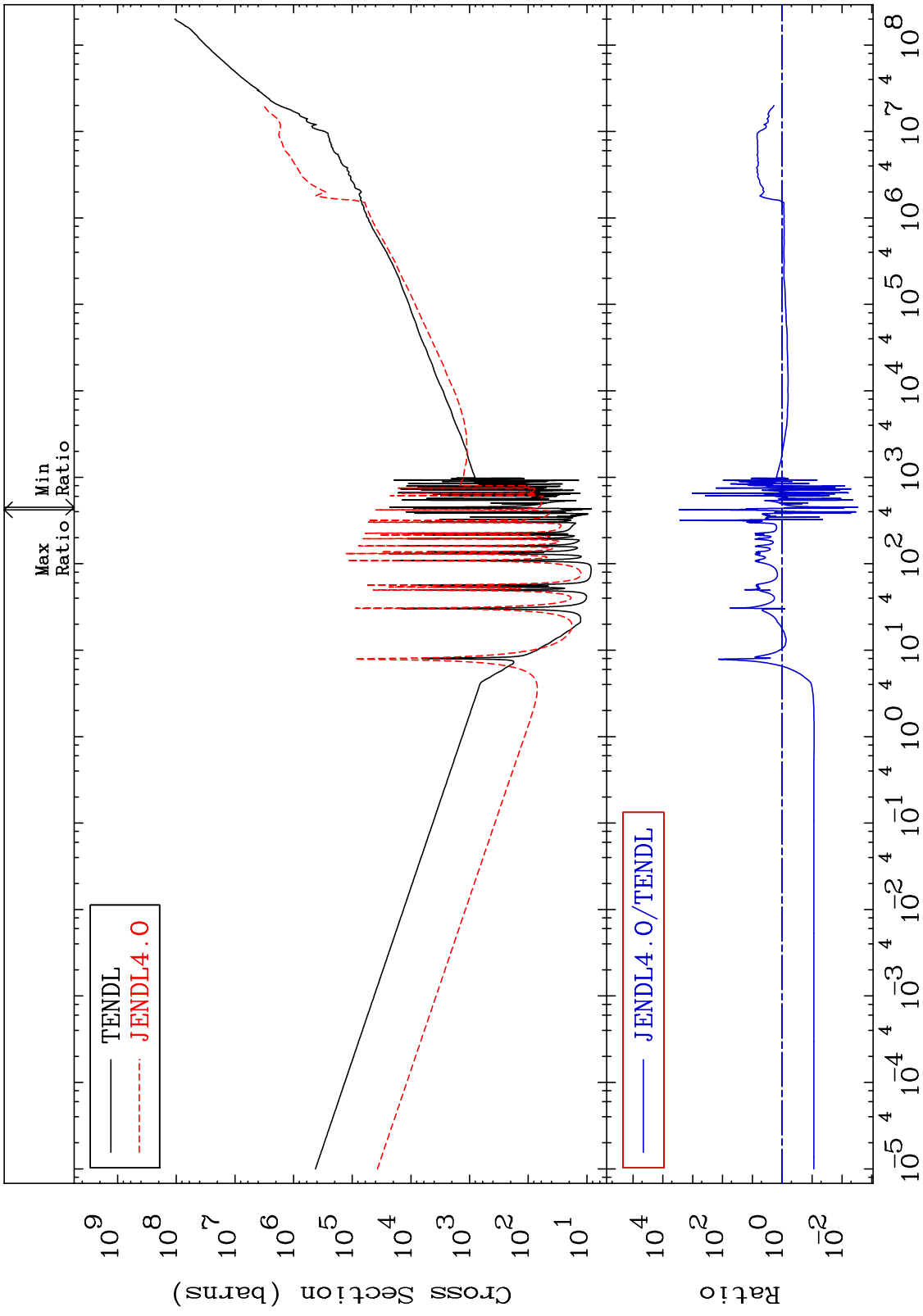
MAT 6831

He-4 Production  
Cross Section

68-Er-164  
-82.78 To 3407. %



MAT 6831 Kerma total (eV-barns) 68-Er-164  
 Cross Section -99.71 To 9999. %

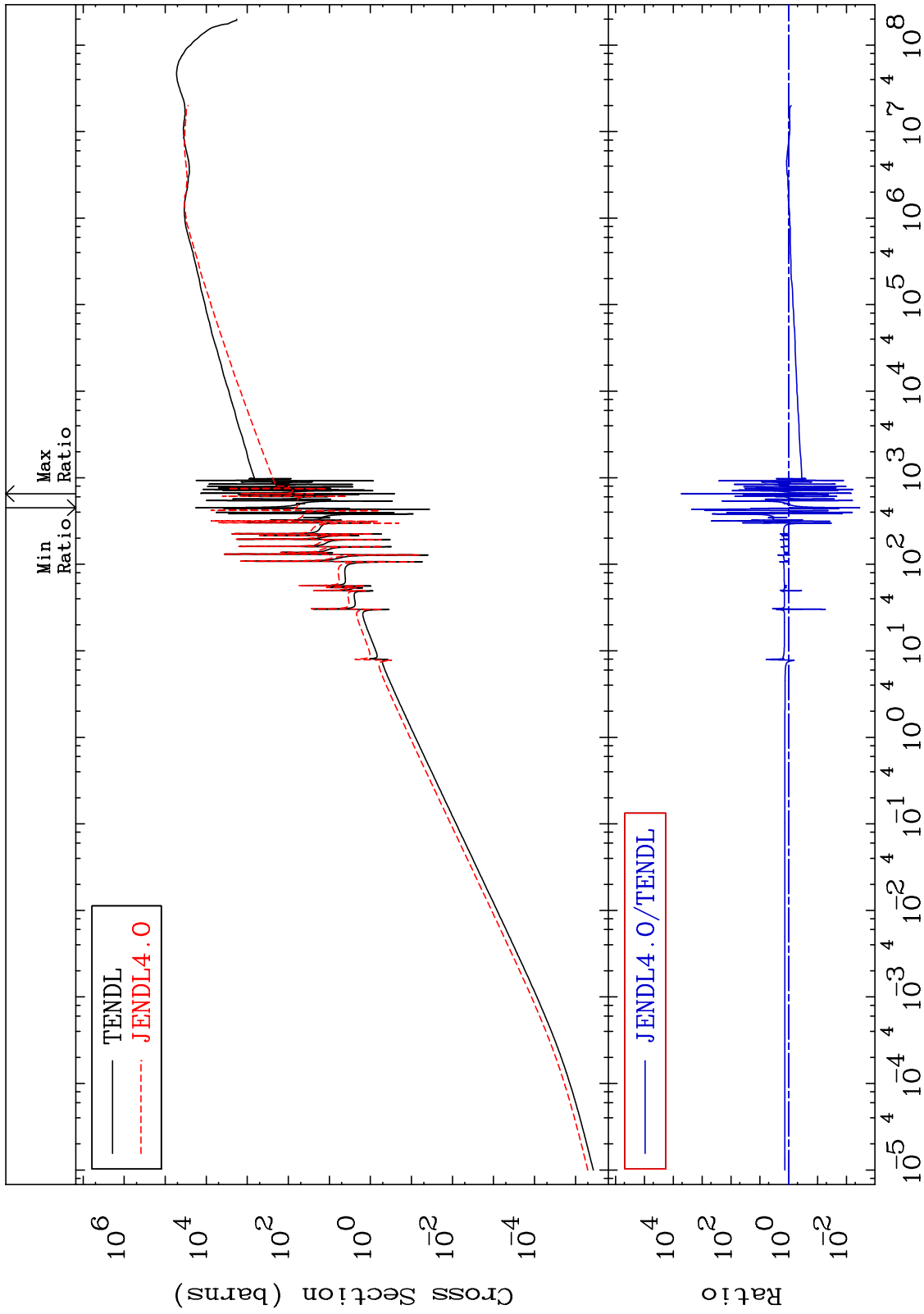


34 Incident Energy (eV) 68-Er-164

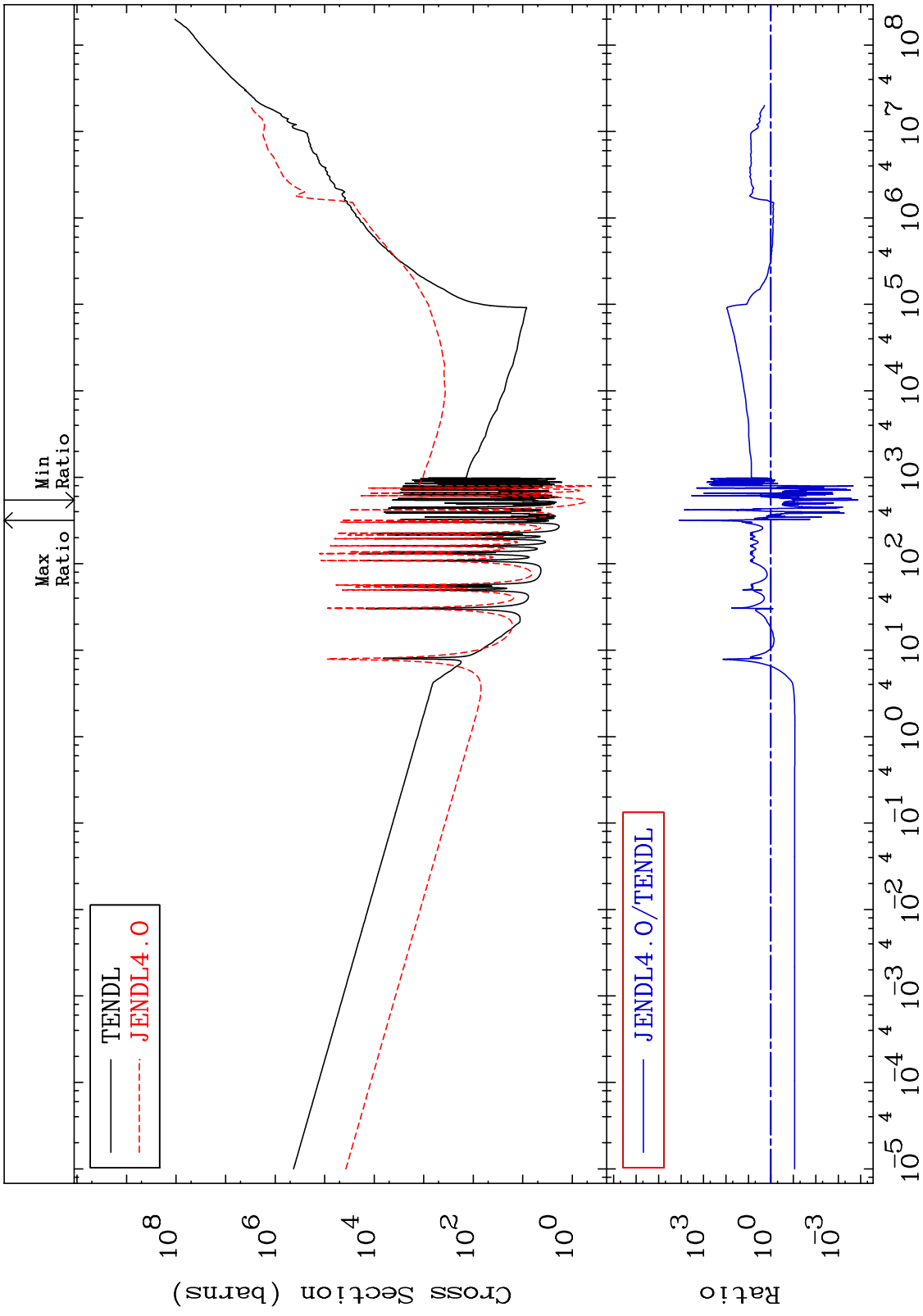
MAT 6831

Kerma elastic  
Cross Section

68-Er-164  
-99.65 To 9999. %

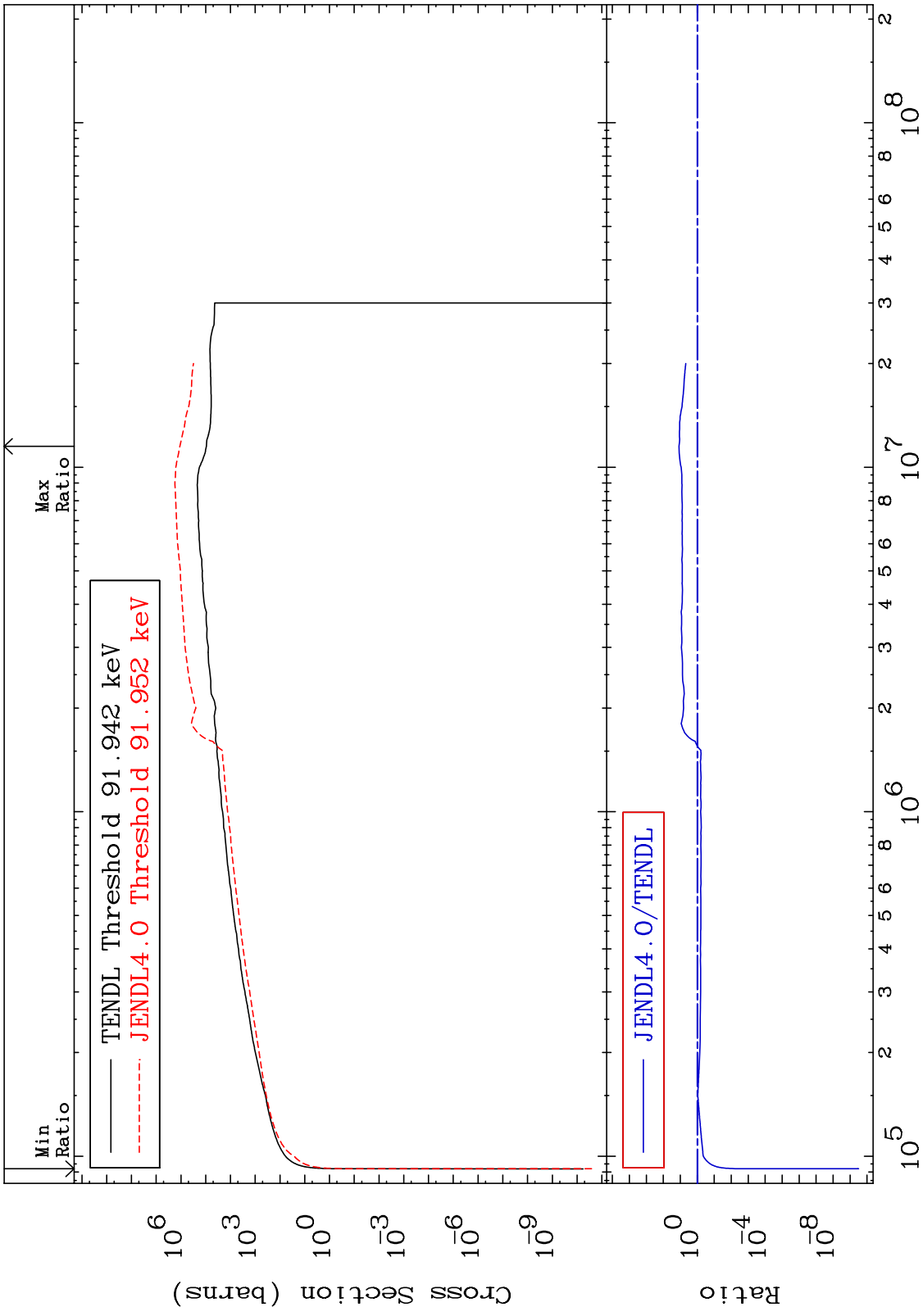


MAT 6831 Kerma non-elastic (all but mt2) 68-Er-164  
 Cross Section -99.99 To 9999. %



36 Incident Energy (eV) 68-Er-164

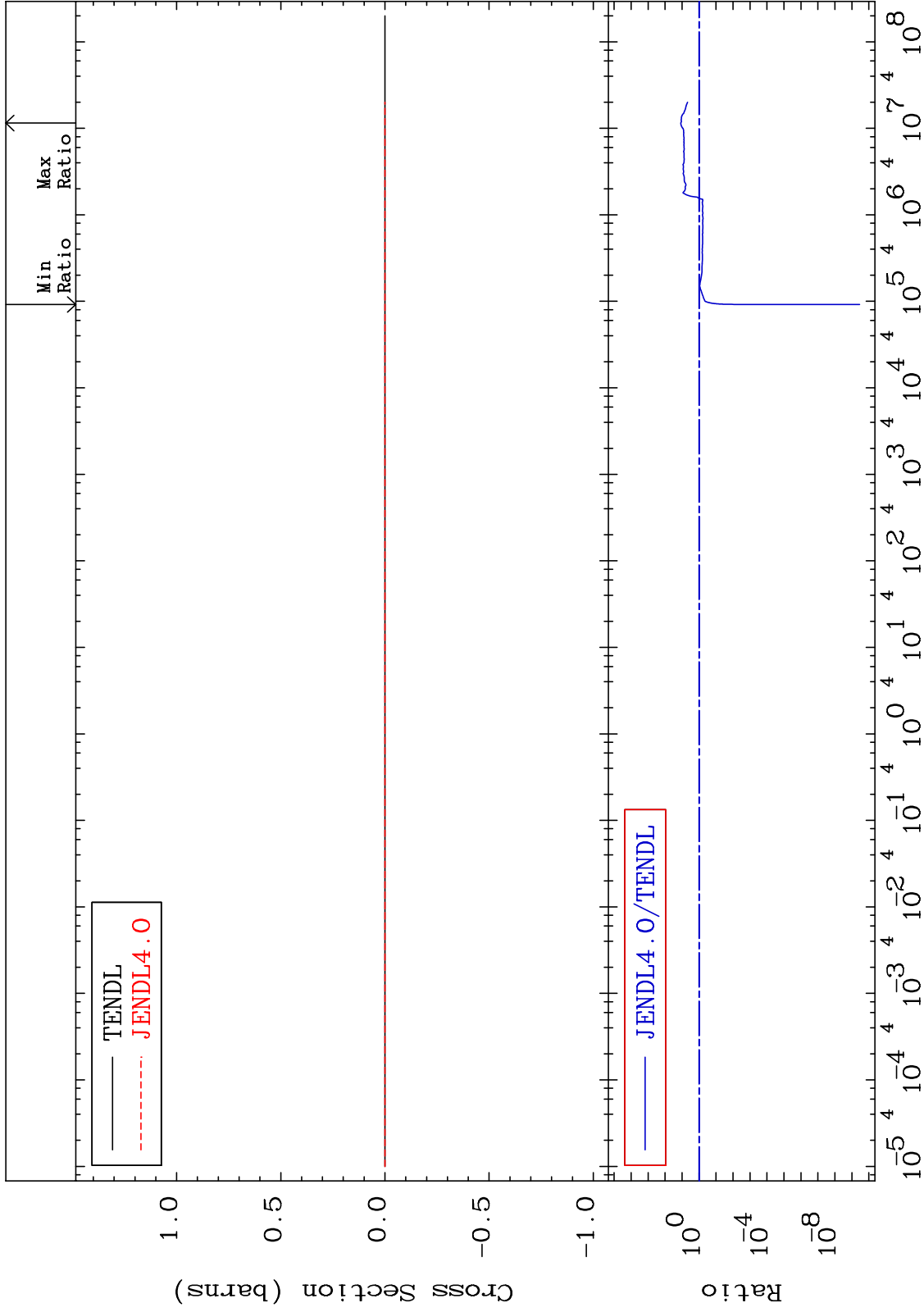
MAT 6831 Kerma inelastic (mt51-91) 68-Er-164  
 Cross Section -100.0 To 1083. %



MAT 6831

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

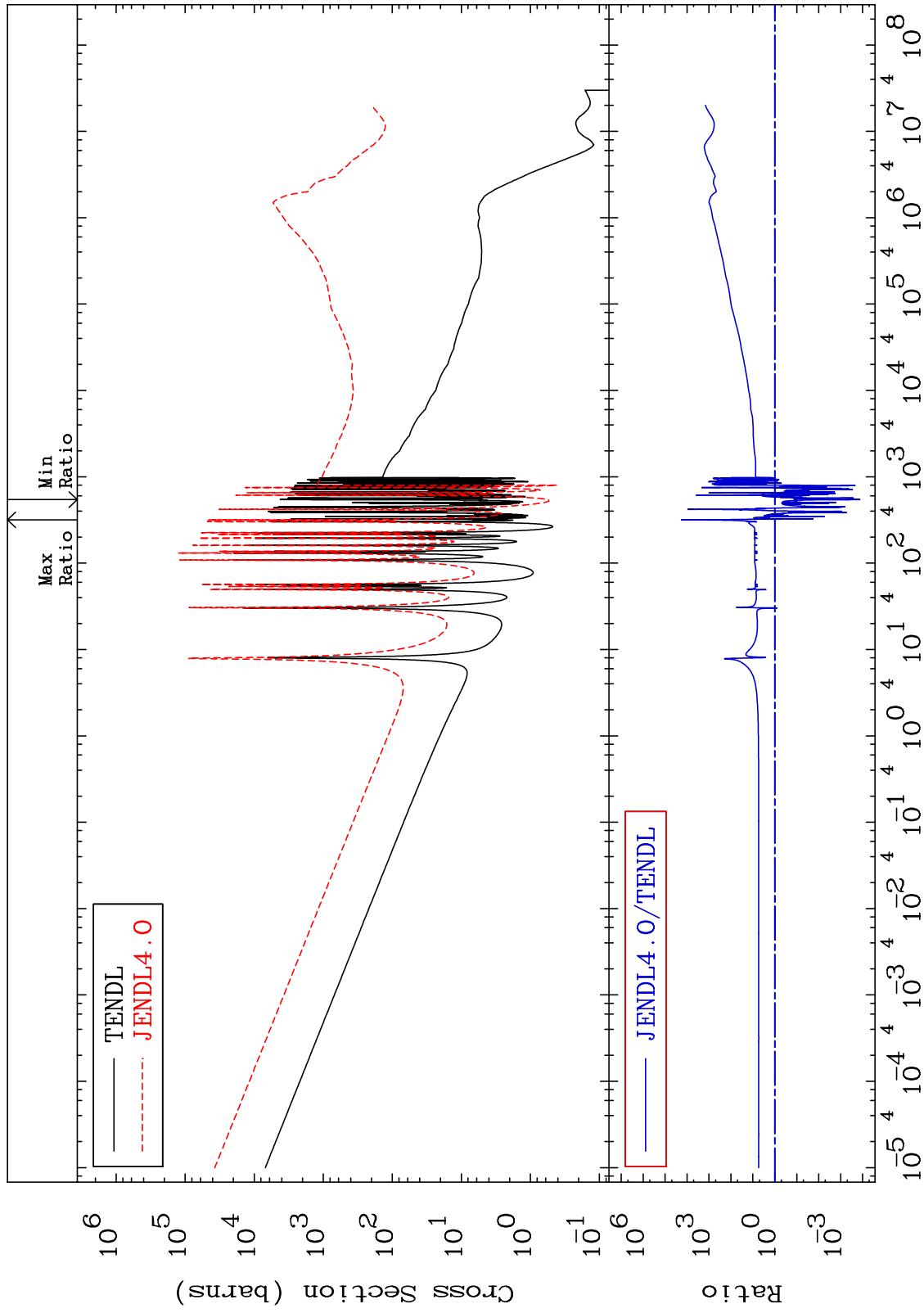
68-Er-164  
-100.0 To 1083. %



MAT 6831

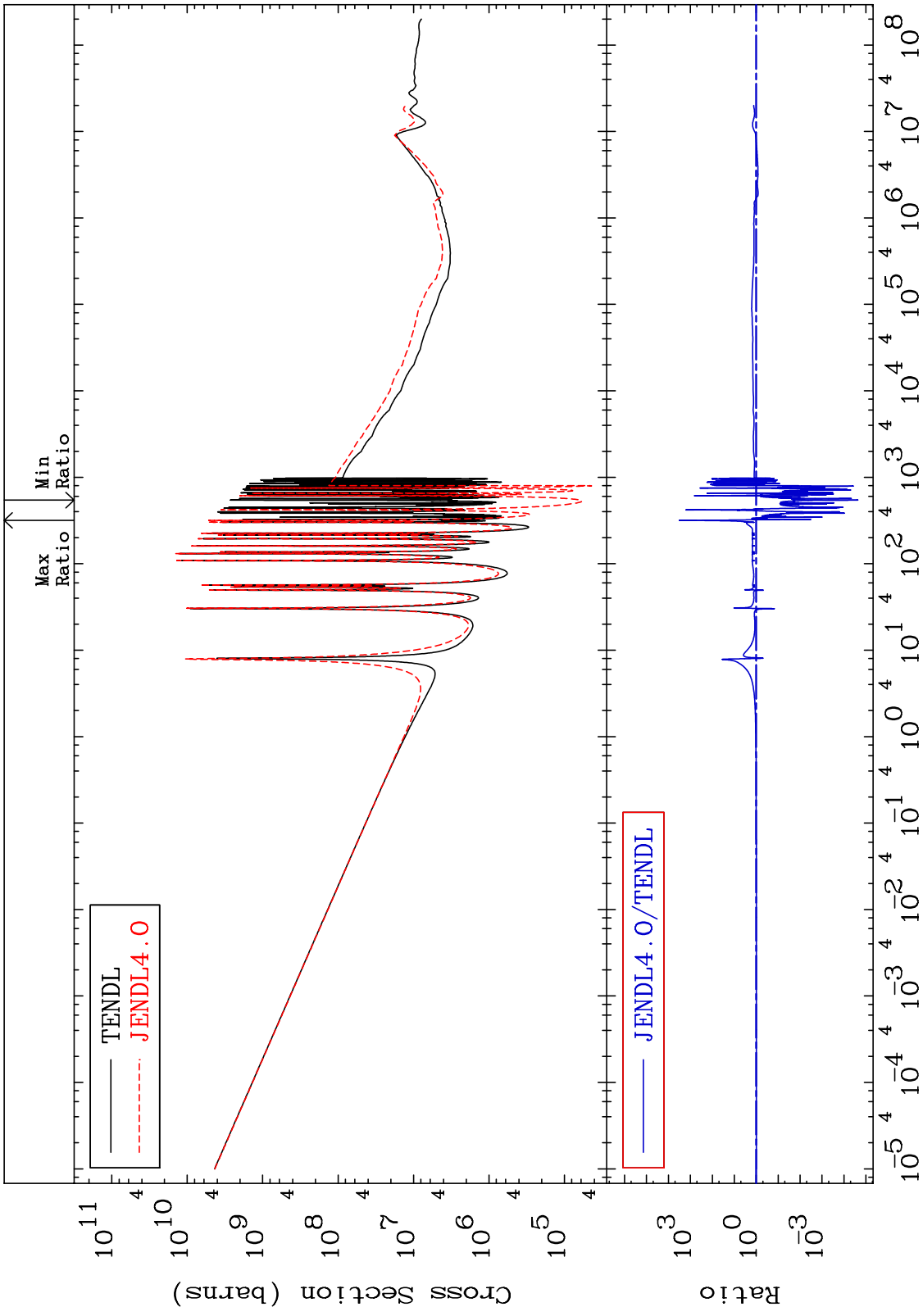
Kerma capture (mt102)  
Cross Section

68-Er-164  
-99.99 To 9999. %



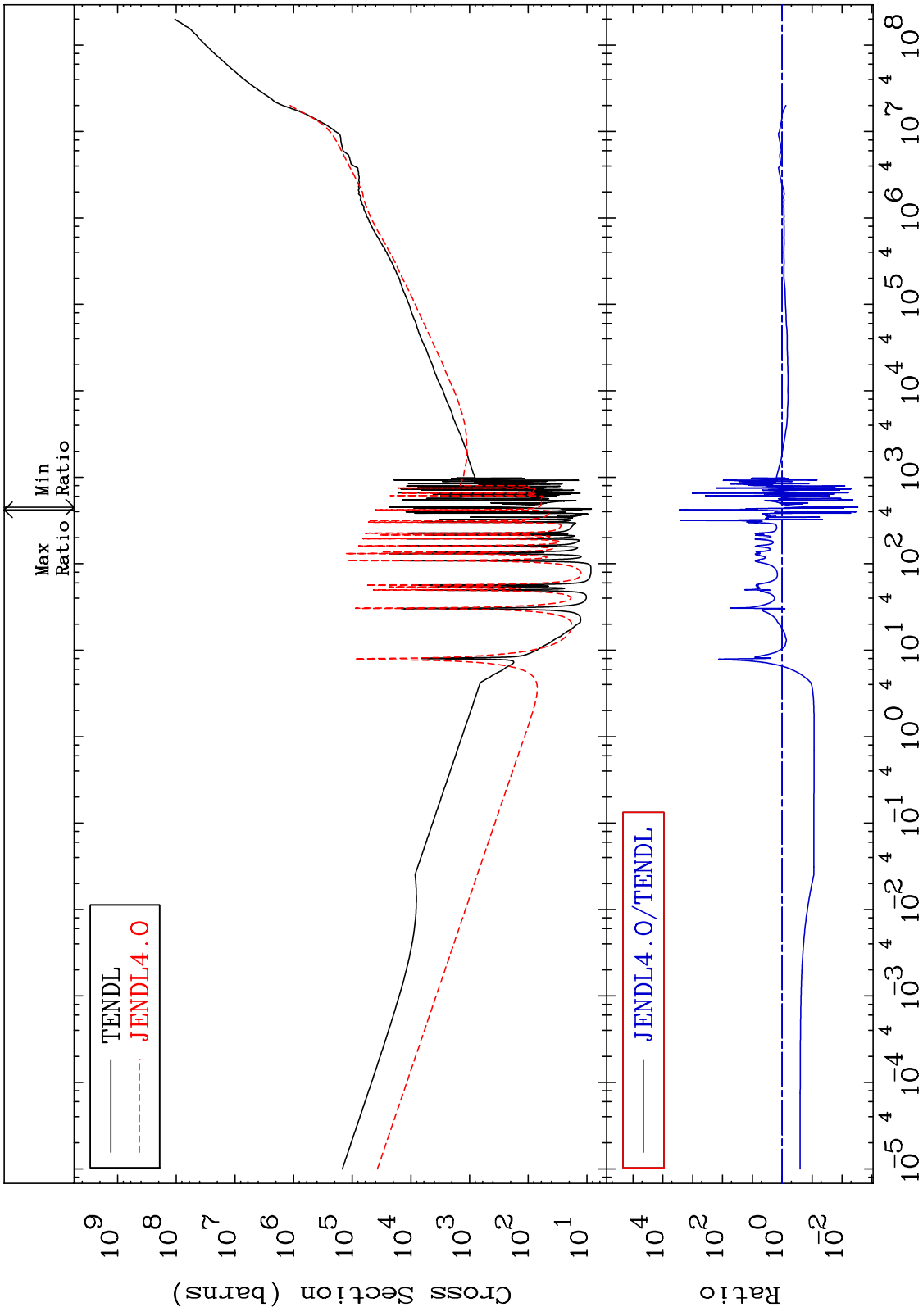


MAT 6831 68-Er-164  
-100.0 To 9999. %  
 Total photon (eV-barns)  
 Cross Section

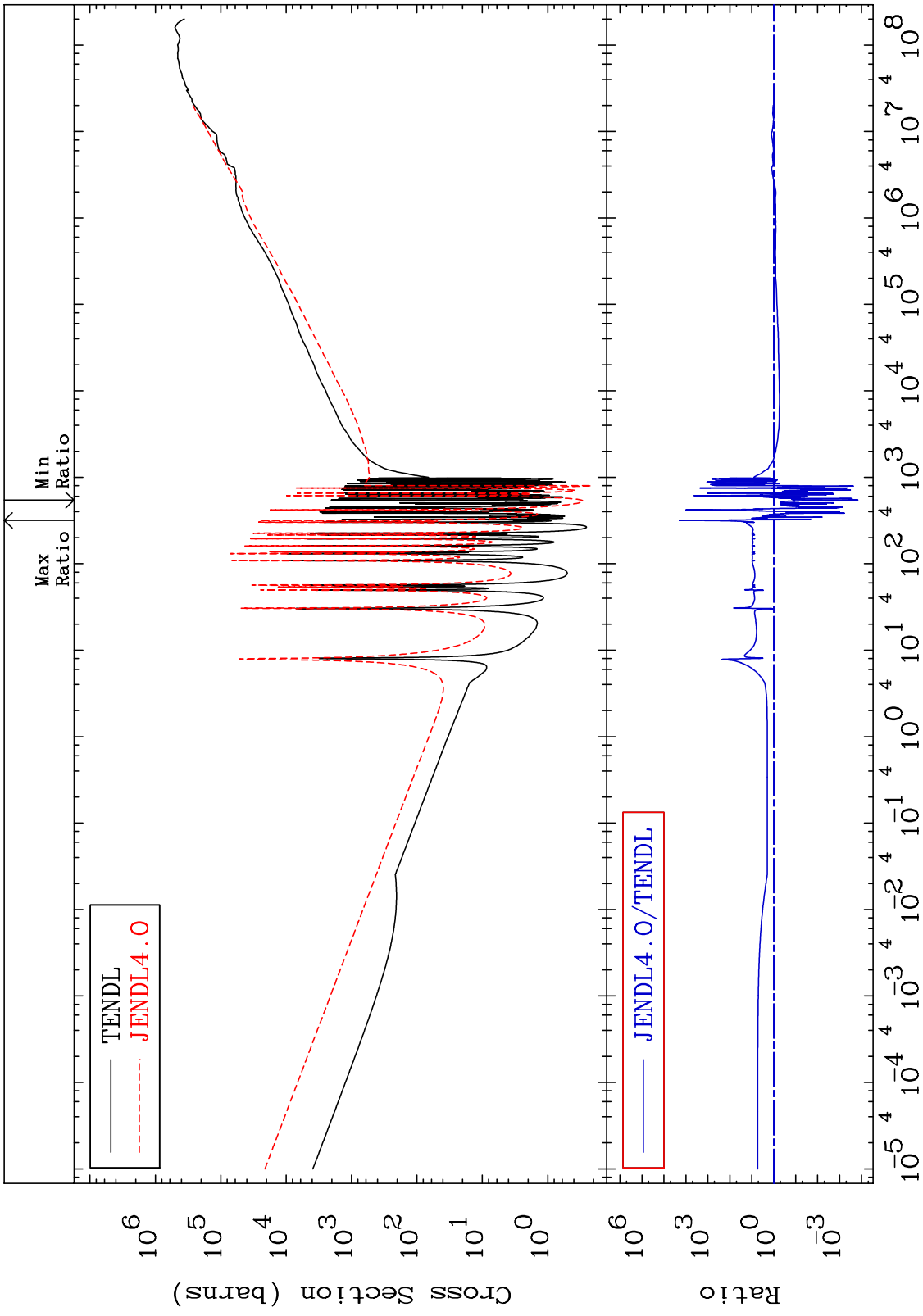


40 68-Er-164

MAT 6831 Total kinematic kerma (high limit) 68-Er-164  
 Cross Section -99.71 To 9999. %

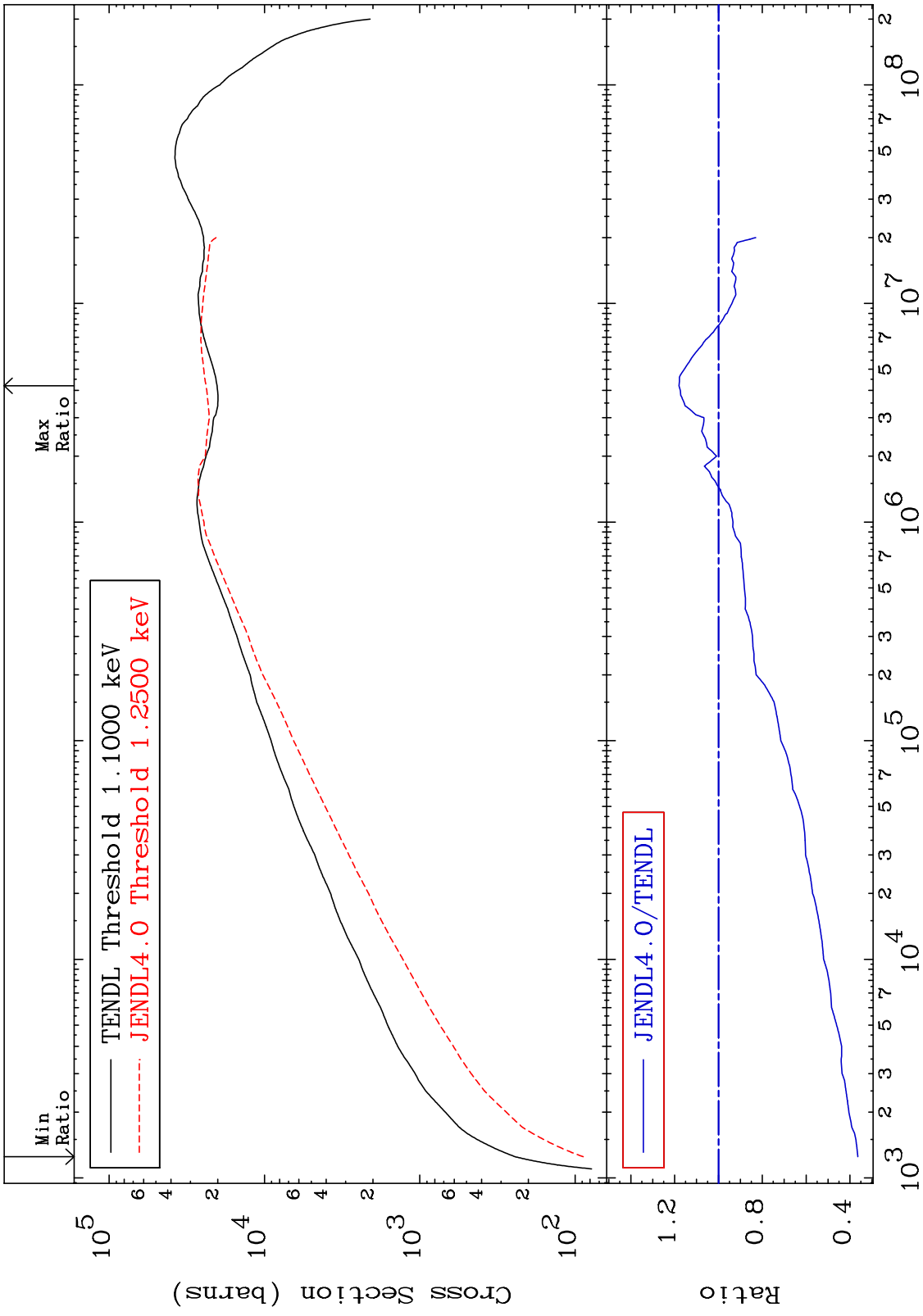


MAT 6831      Dpa total (eV-barns)      68-Er-164  
 -99.99 To 9999. %



42      Incident Energy (eV)      68-Er-164

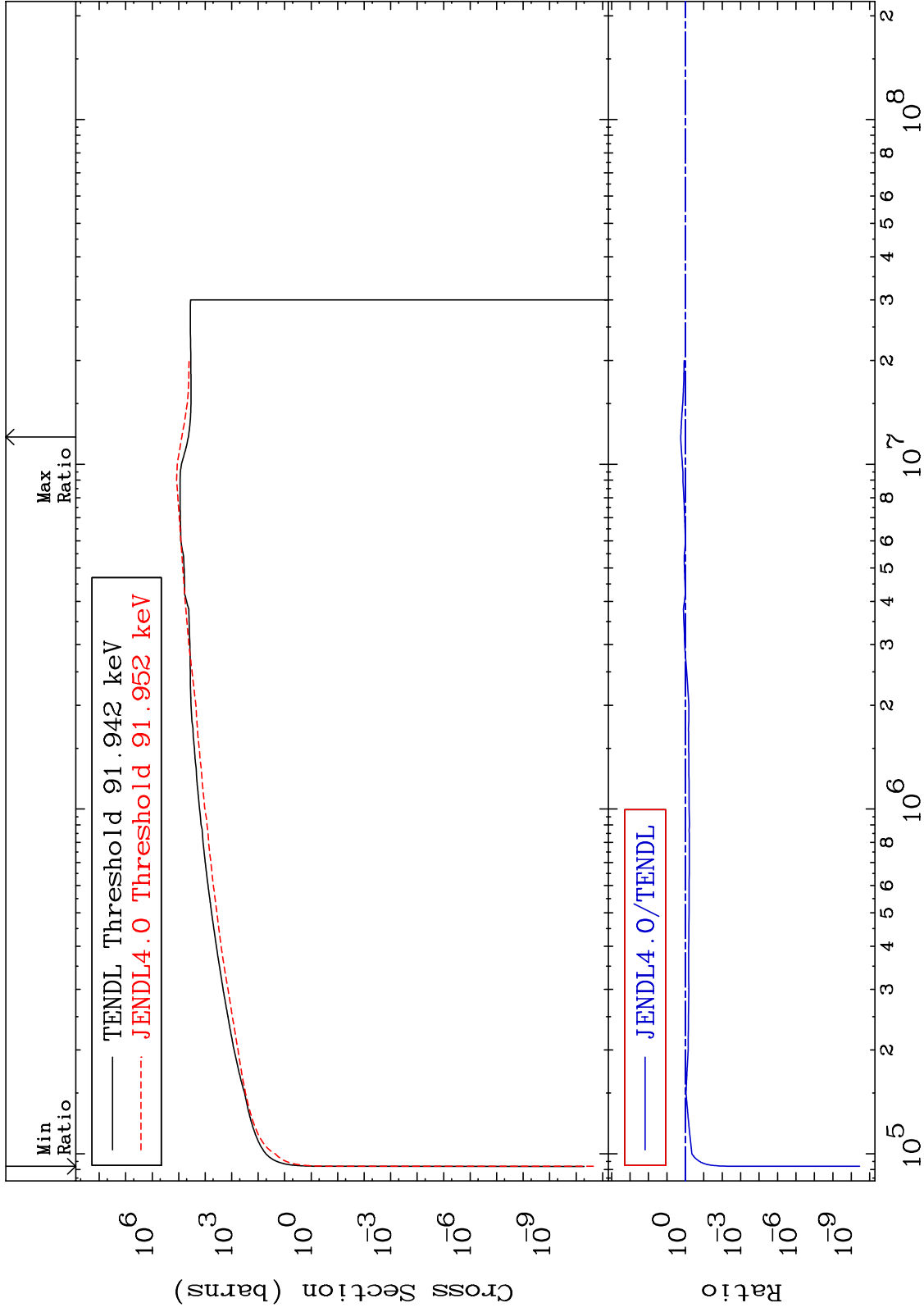
MAT 6831      Dpa elastic (mt2)      68-Er-164  
 Cross Section      -63.58 To 17.99 %



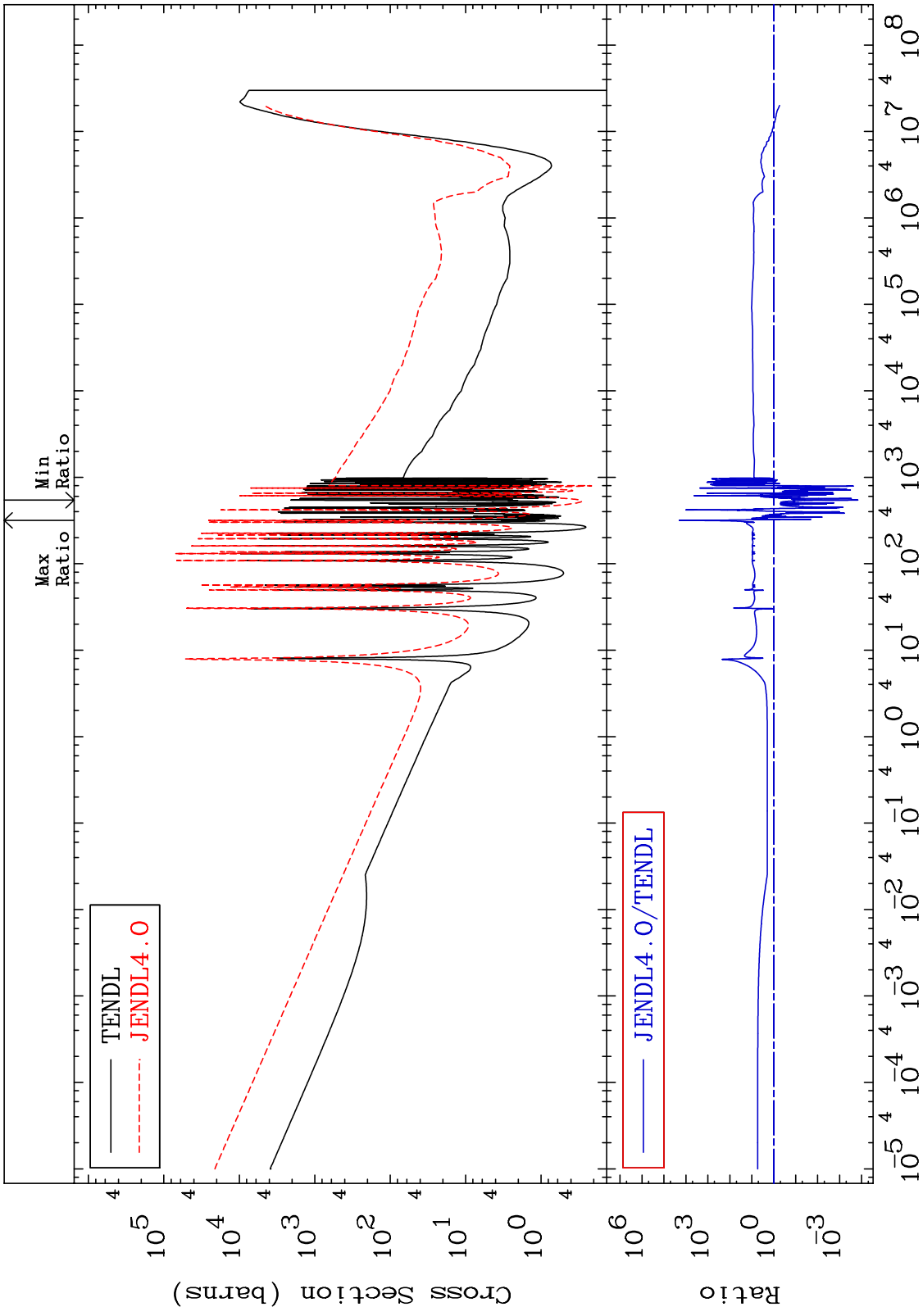
MAT 6831

Dpa inelastic (mt51-91)  
Cross Section

68-Er-164  
-100.0 To 76.33 %



MAT 6831      Dpa disappearance (mt102 -120)      68-Er-164  
 Cross Section      -99.99 To 9999. %



45      Incident Energy (eV)      68-Er-164