

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

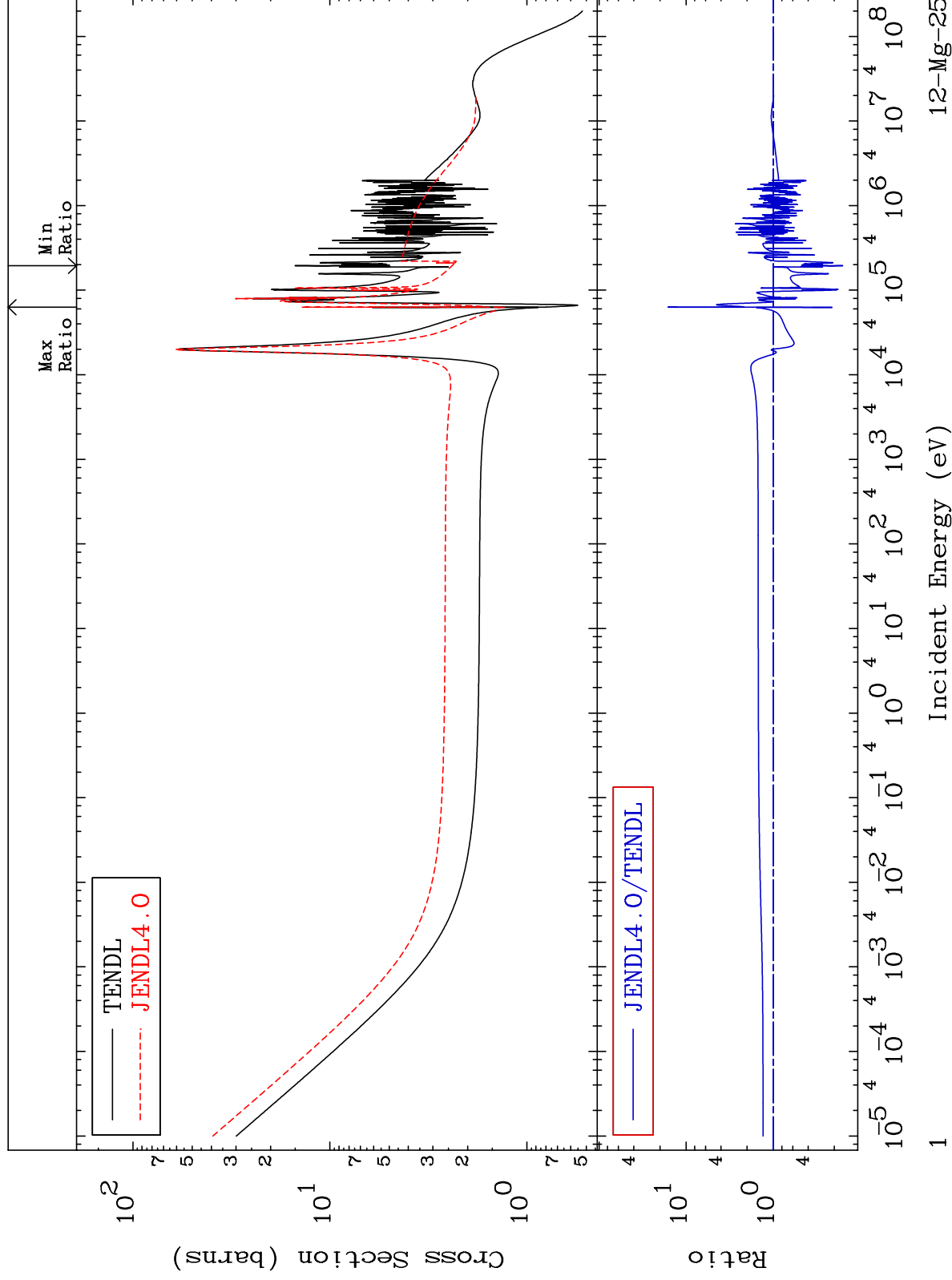
MAT 1228

Total

12-Mg-25

Cross Section

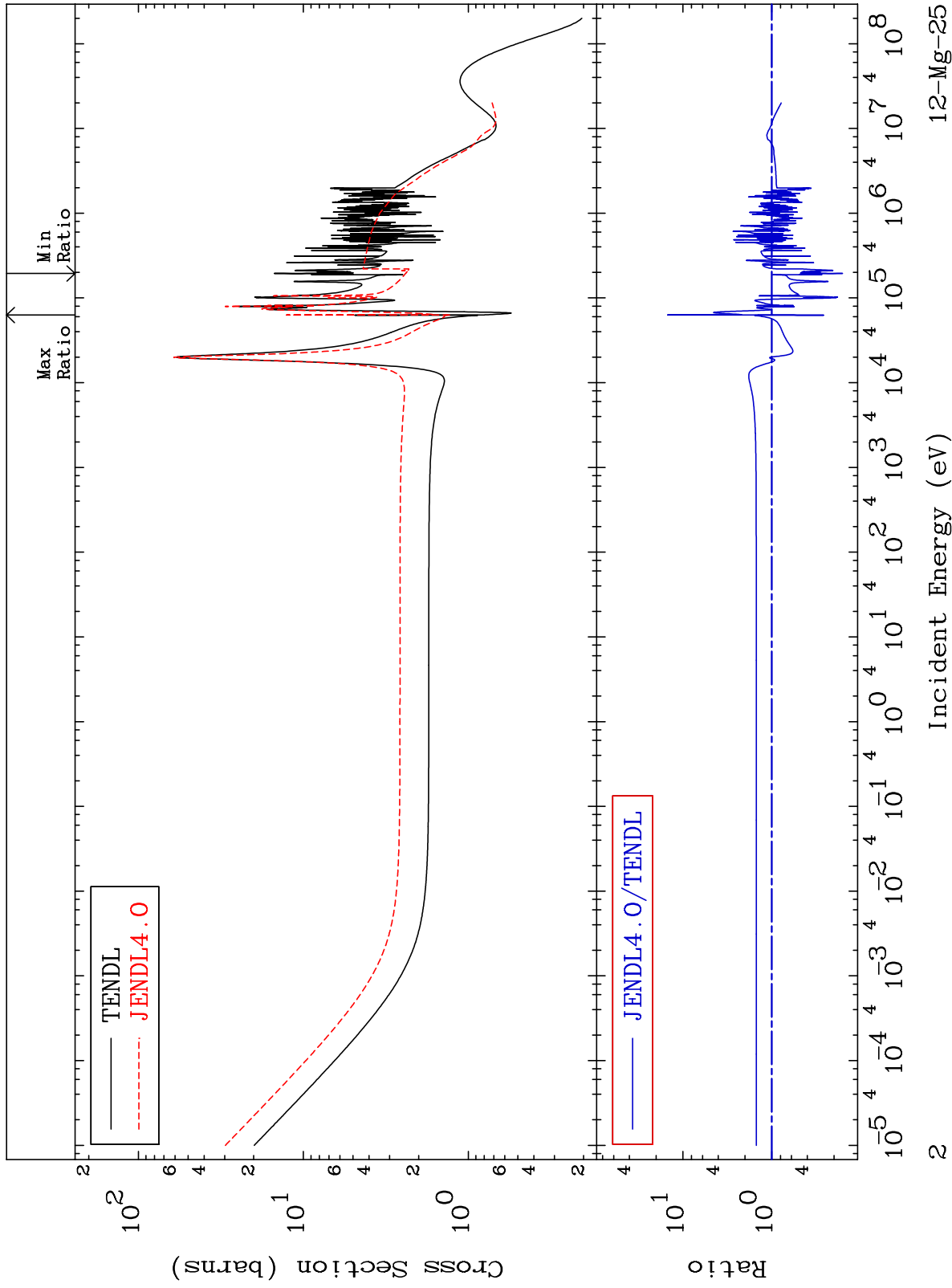
-84.03 To 1516. %



MAT 1228

Elastic  
Cross Section

12-Mg-25  
-84.03 To 1386. %



12-Mg-25

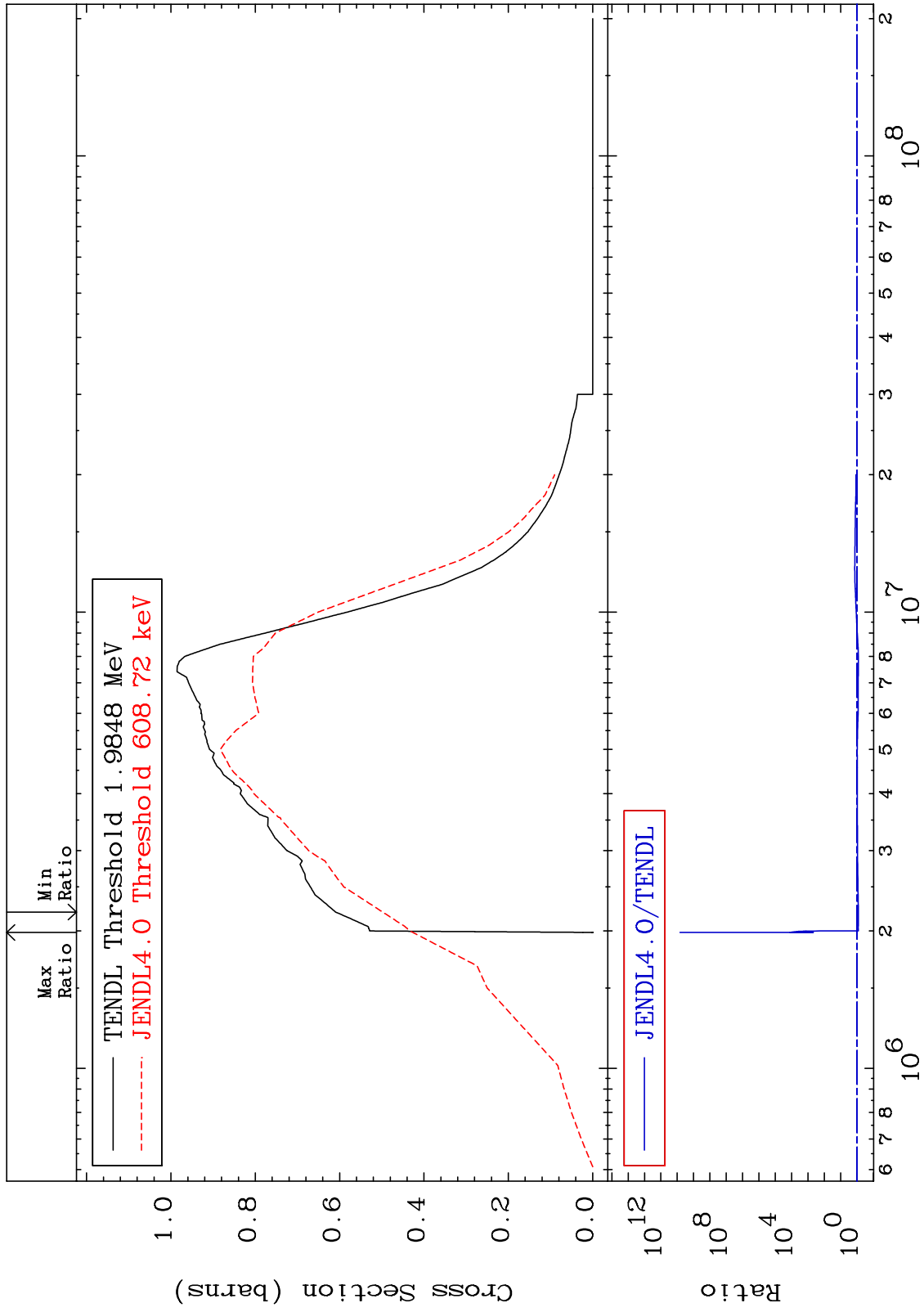
Incident Energy (eV)

2

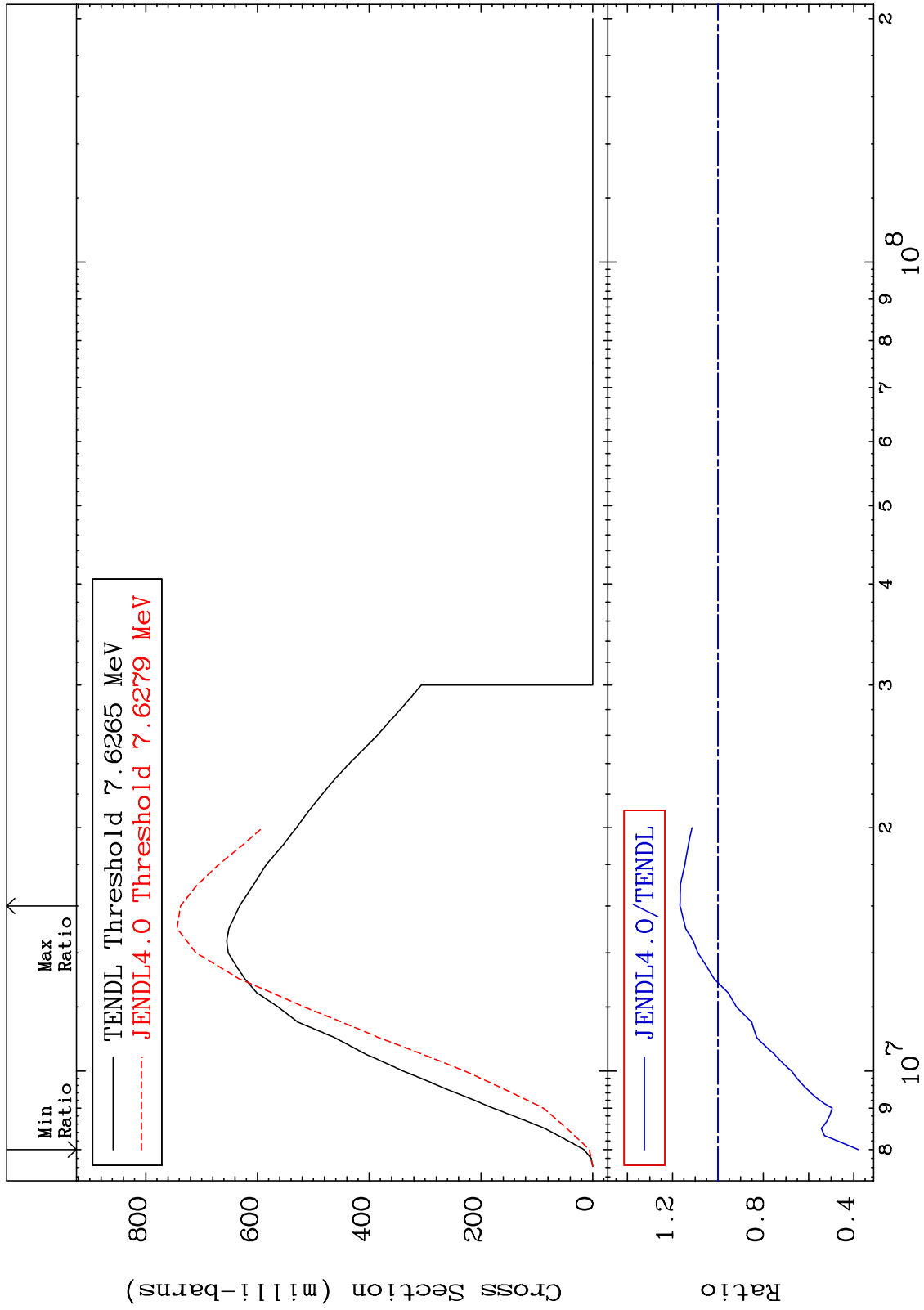
MAT 1228

Inelastic  
Cross Section

12-Mg-25  
-18.31 To 9999. %



MAT 1228 (n,2n) Cross Section 12-Mg-25 -62.01 To 16.73 %



4 Incident Energy (eV) 12-Mg-25

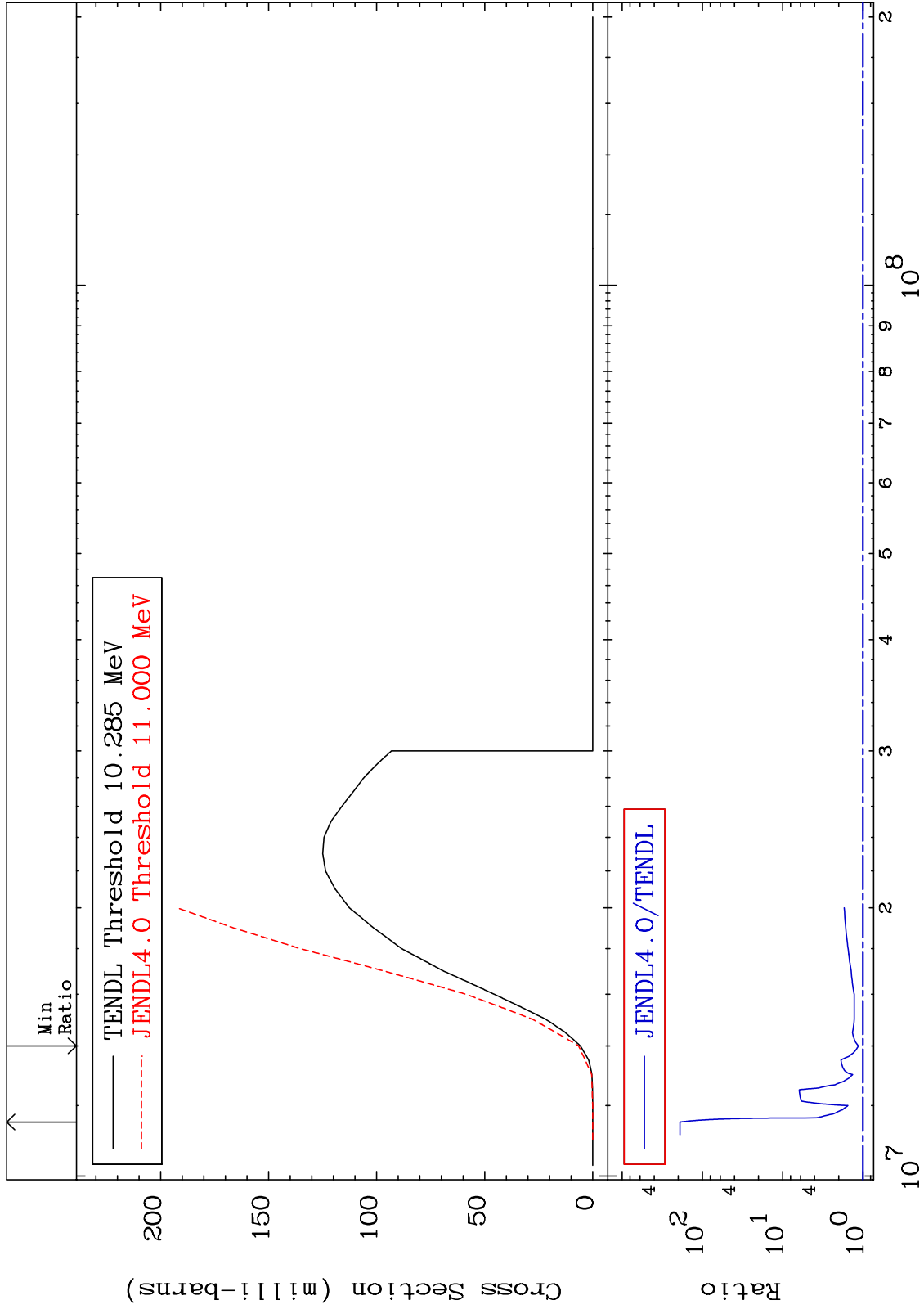
MAT 1228

(n,n')  $\alpha$

12-Mg-25

Cross Section

13.75 To 9999. %



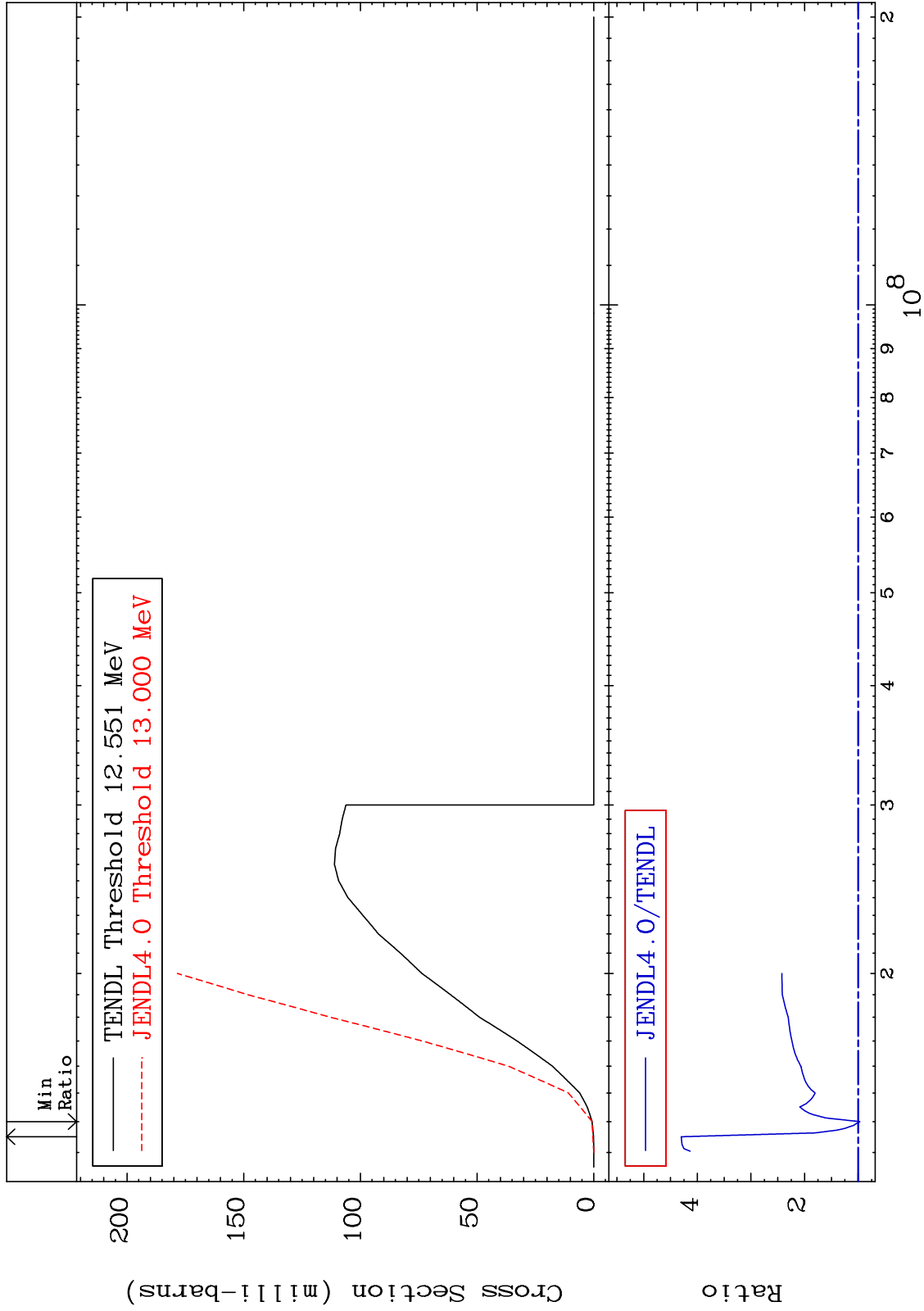
Incident Energy (eV)

12-Mg-25

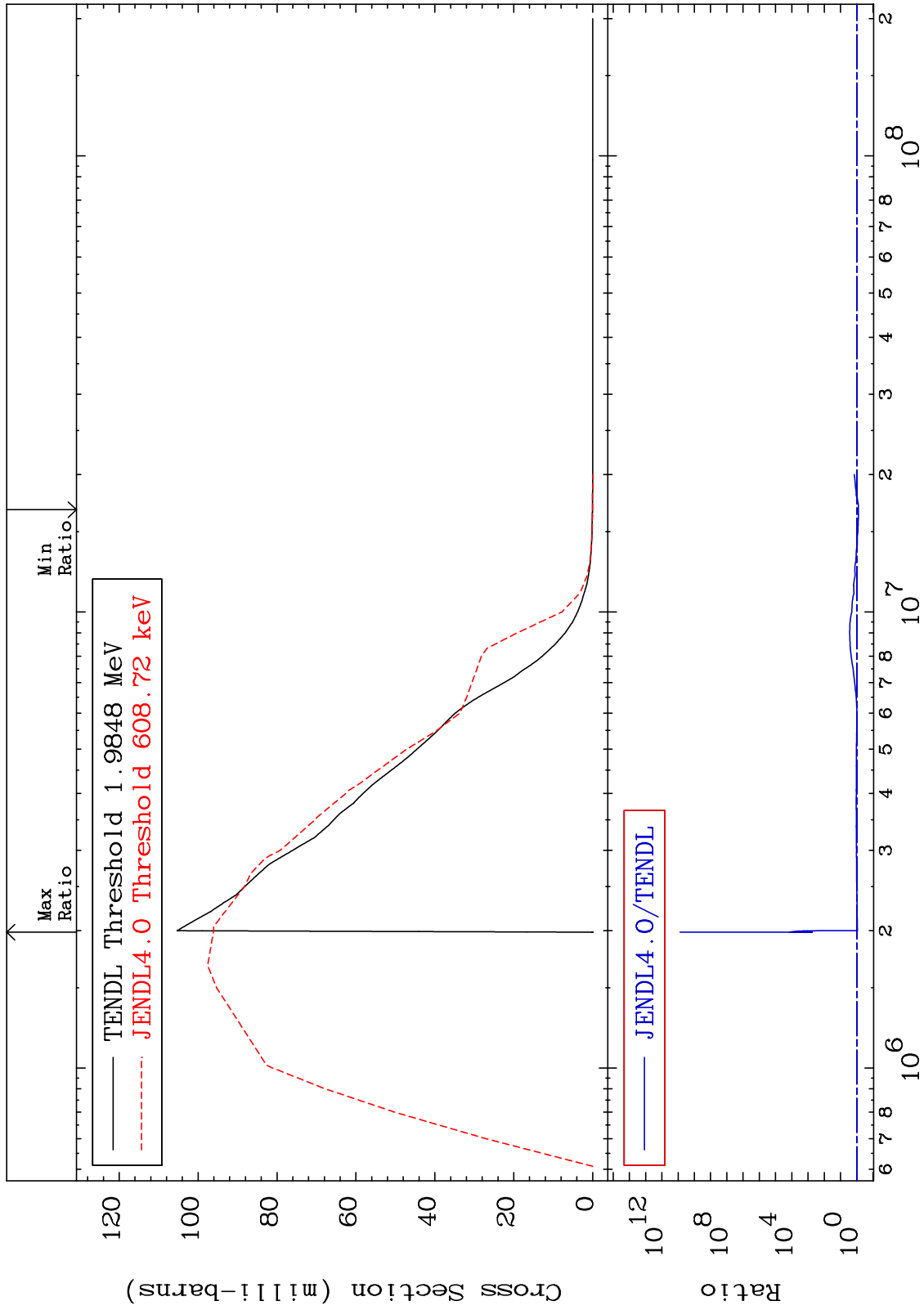
MAT 1228

(n,n') p  
Cross Section

12-Mg-25  
-3.220 To 330.0 %

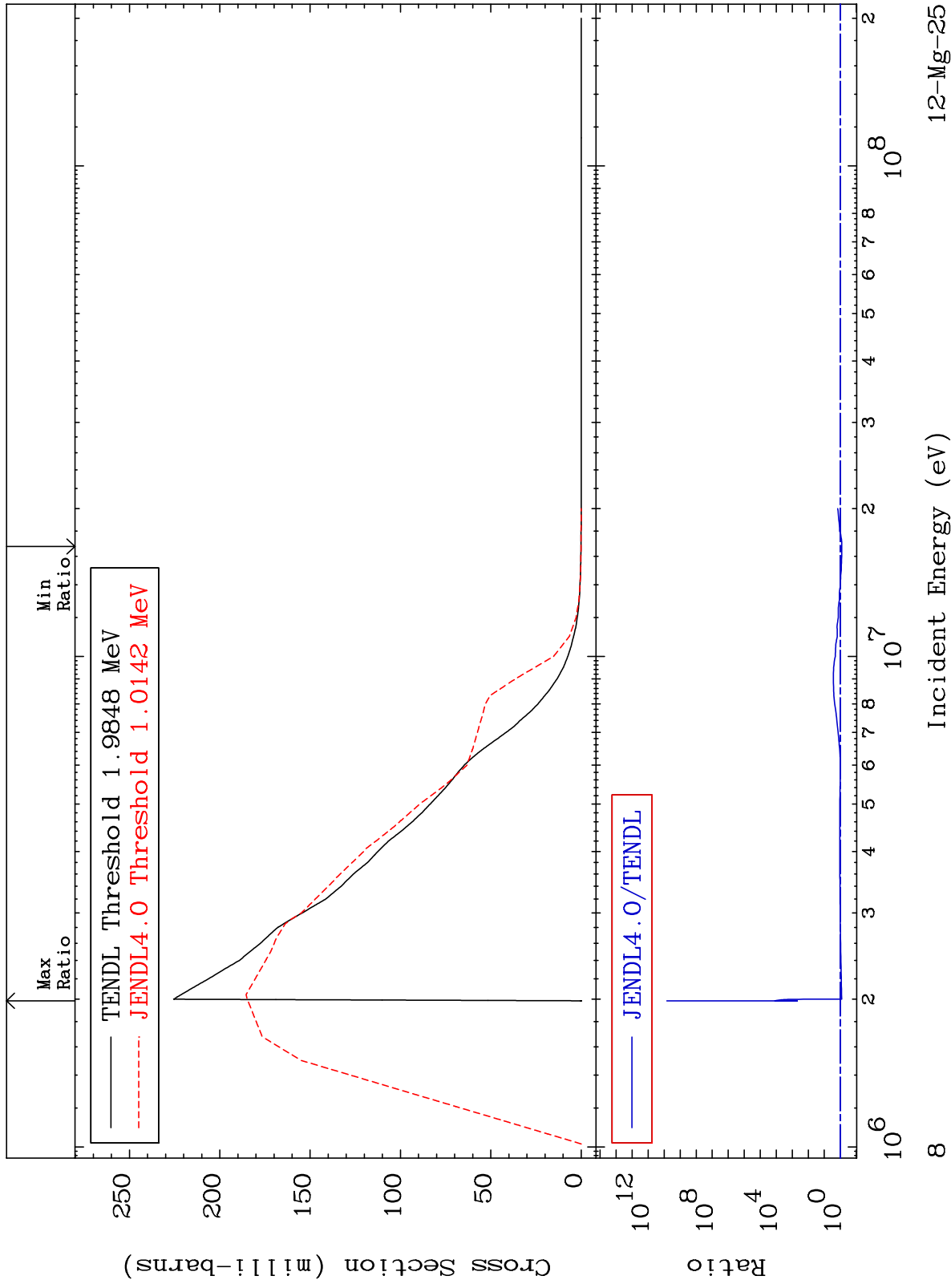


MAT 1228 MT= 51 (n, n') Level 12-Mg-25  
 Cross Section -20.39 To 9999. %





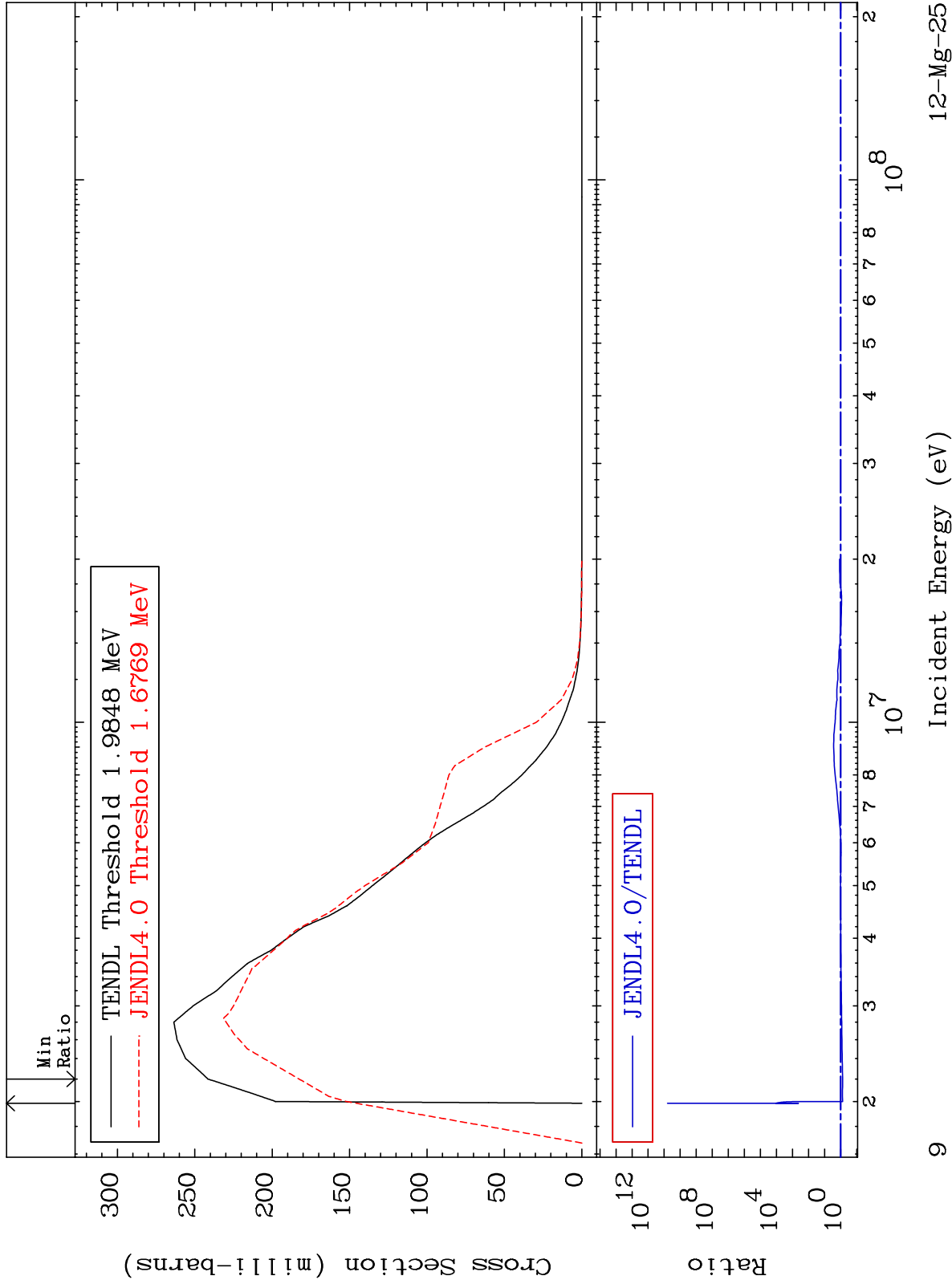
MAT 1228 MT= 52 (n, n') Level Cross Section -19.15 To 9999. % 12-Mg-25



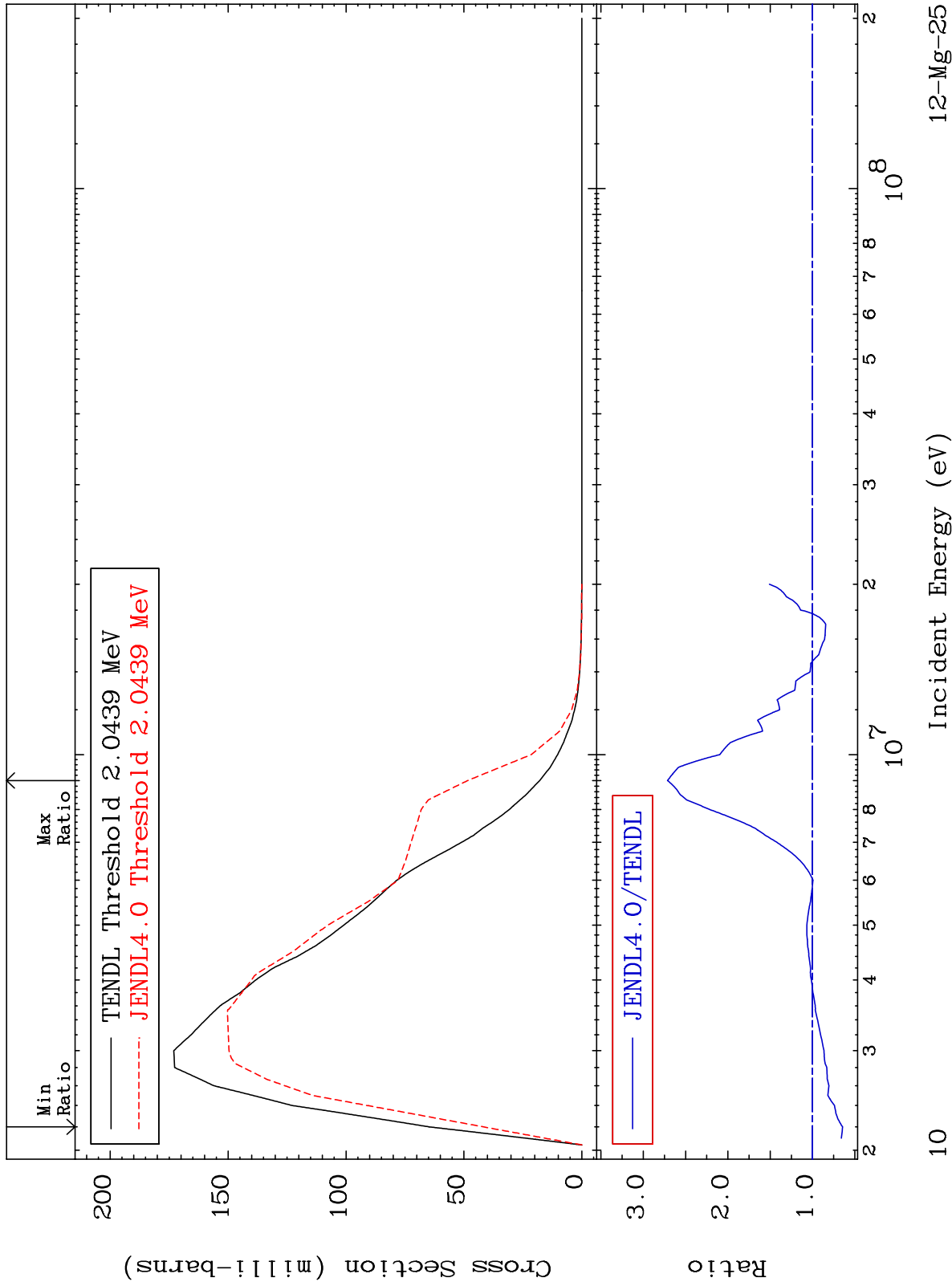
MAT 1228

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

12-Mg-25  
-24.40 To 9999. %



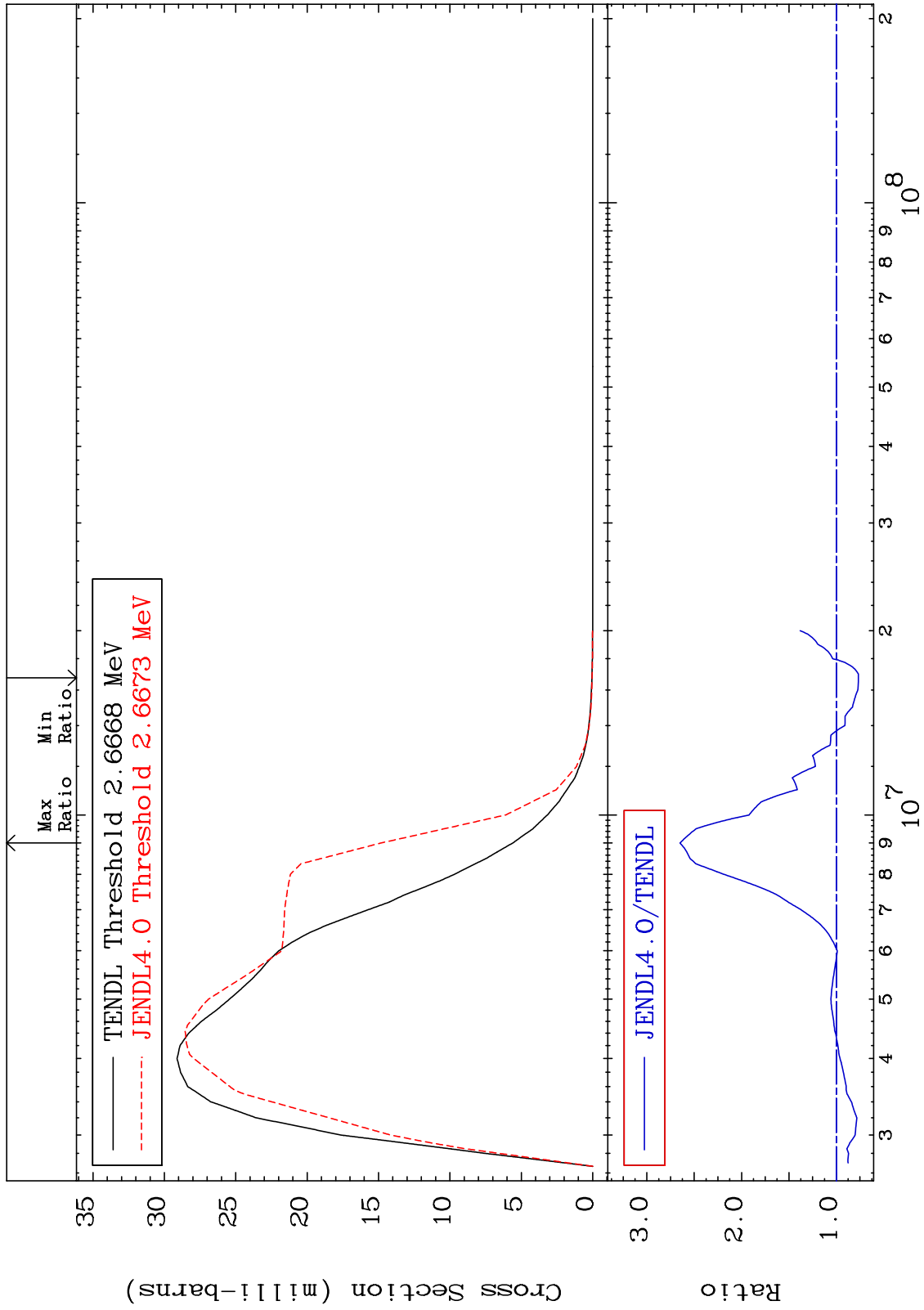
MAT 1228 MT= 54 (n,n') Level Cross Section 12-Mg-25  
 -35.63 To 171.3 %



MAT 1228

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

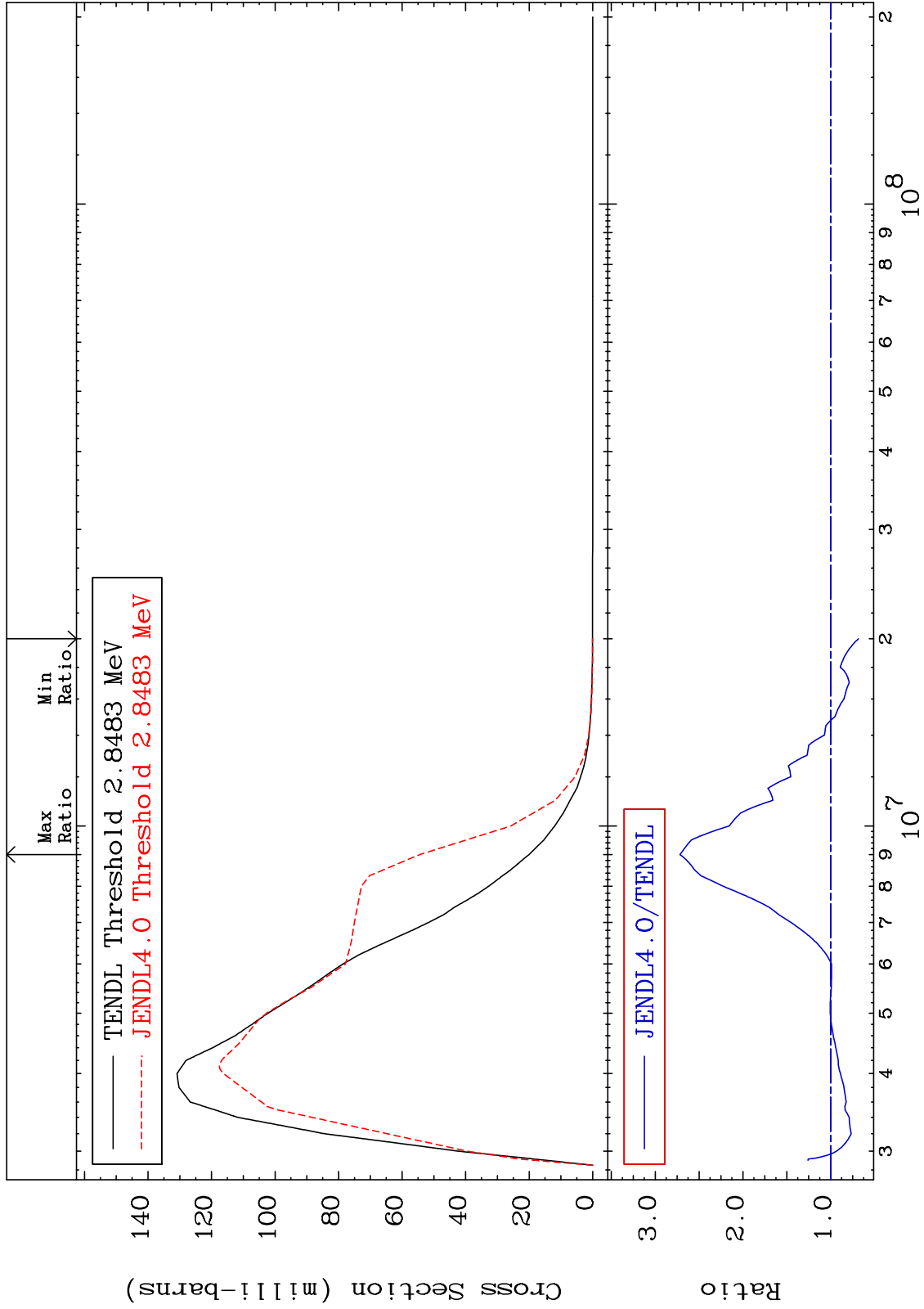
12-Mg-25  
-23.34 To 165.0 %



MAT 1228

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

12-Mg-25  
-31.64 To 171.7 %



12

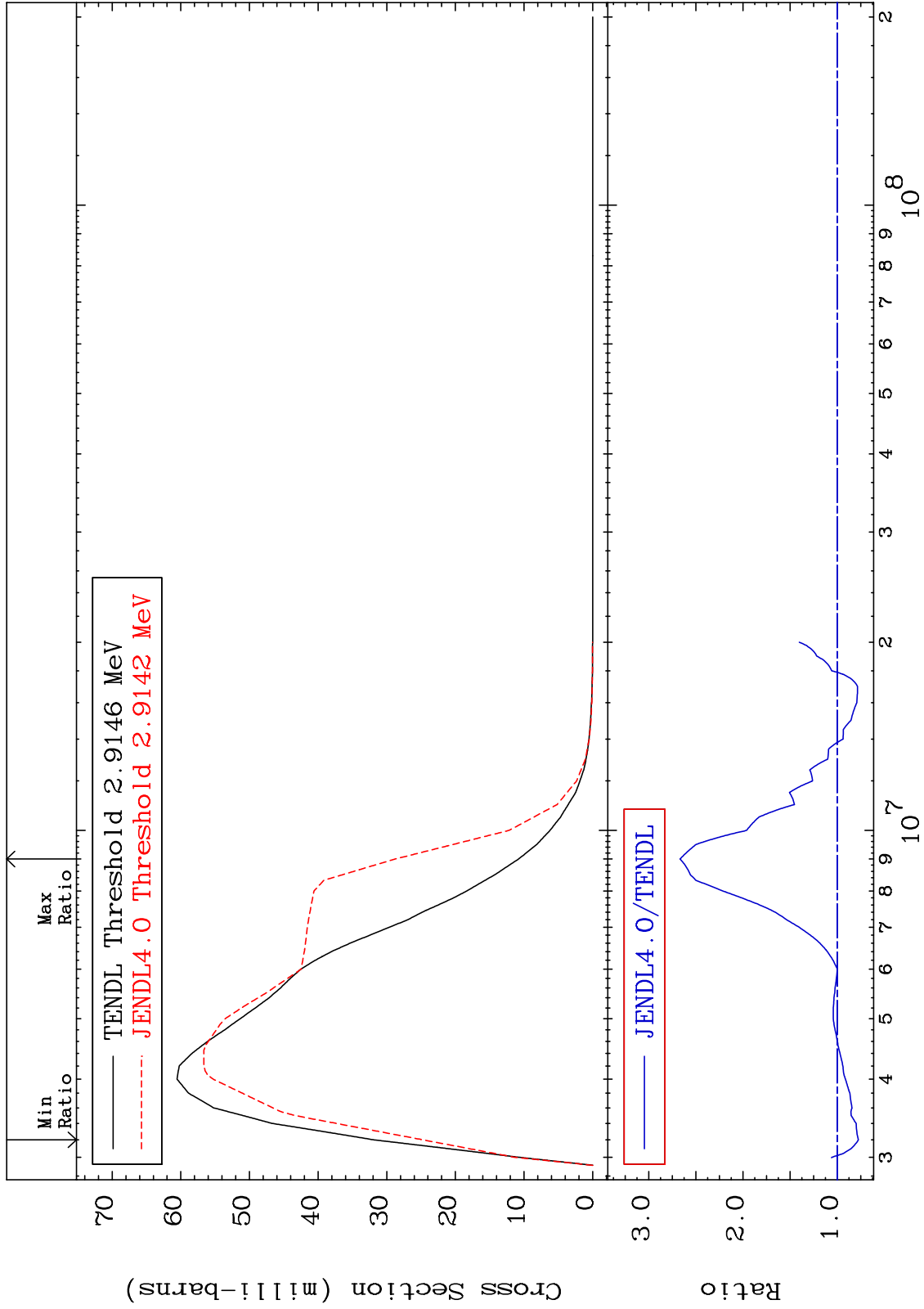
Incident Energy (eV)

12-Mg-25

MAT 1228

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

12-Mg-25  
-22.47 To 166.8 %



13

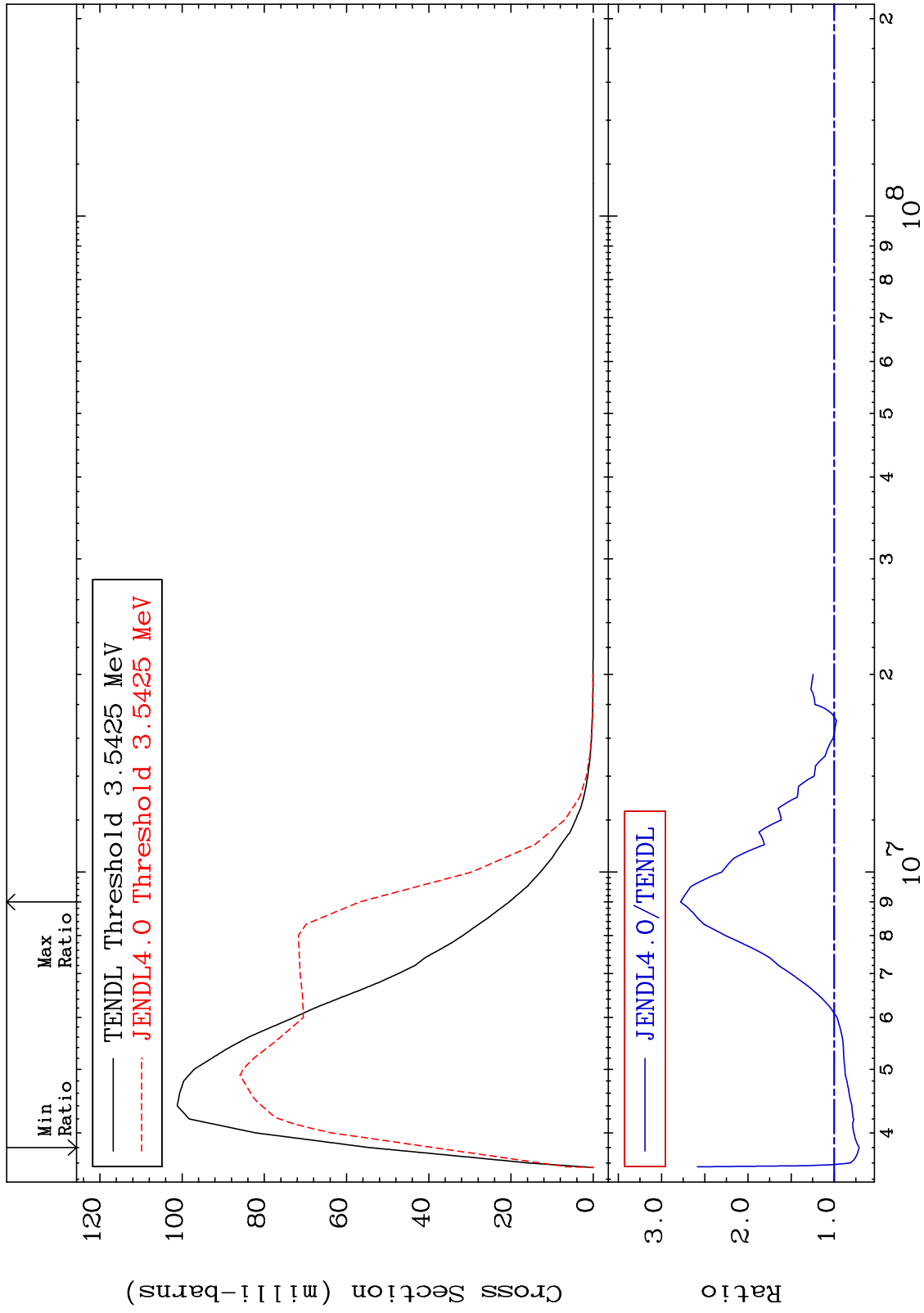
Incident Energy (eV)

12-Mg-25

MAT 1228

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

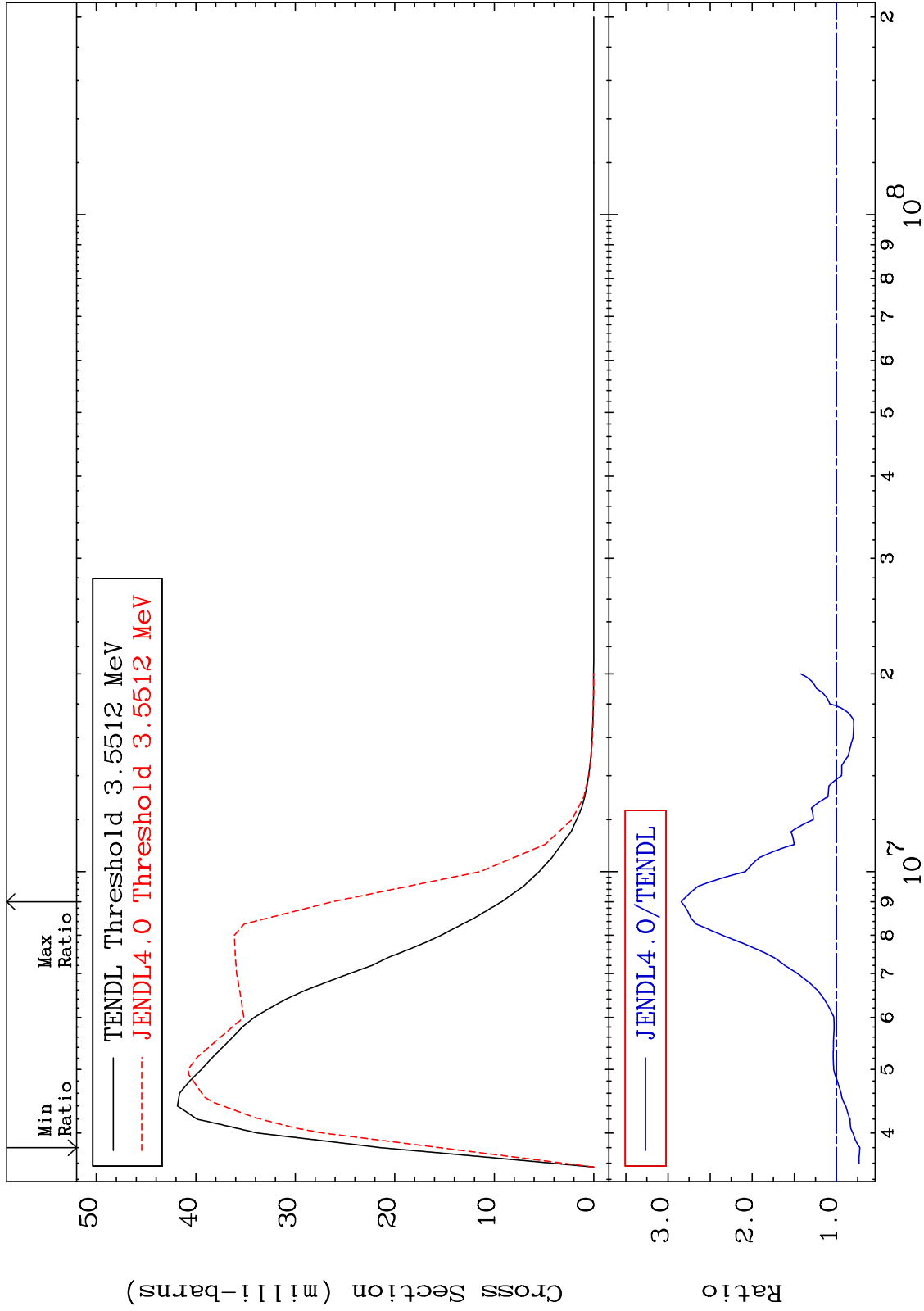
12-Mg-25  
-28.78 To 177.9 %



MAT 1228

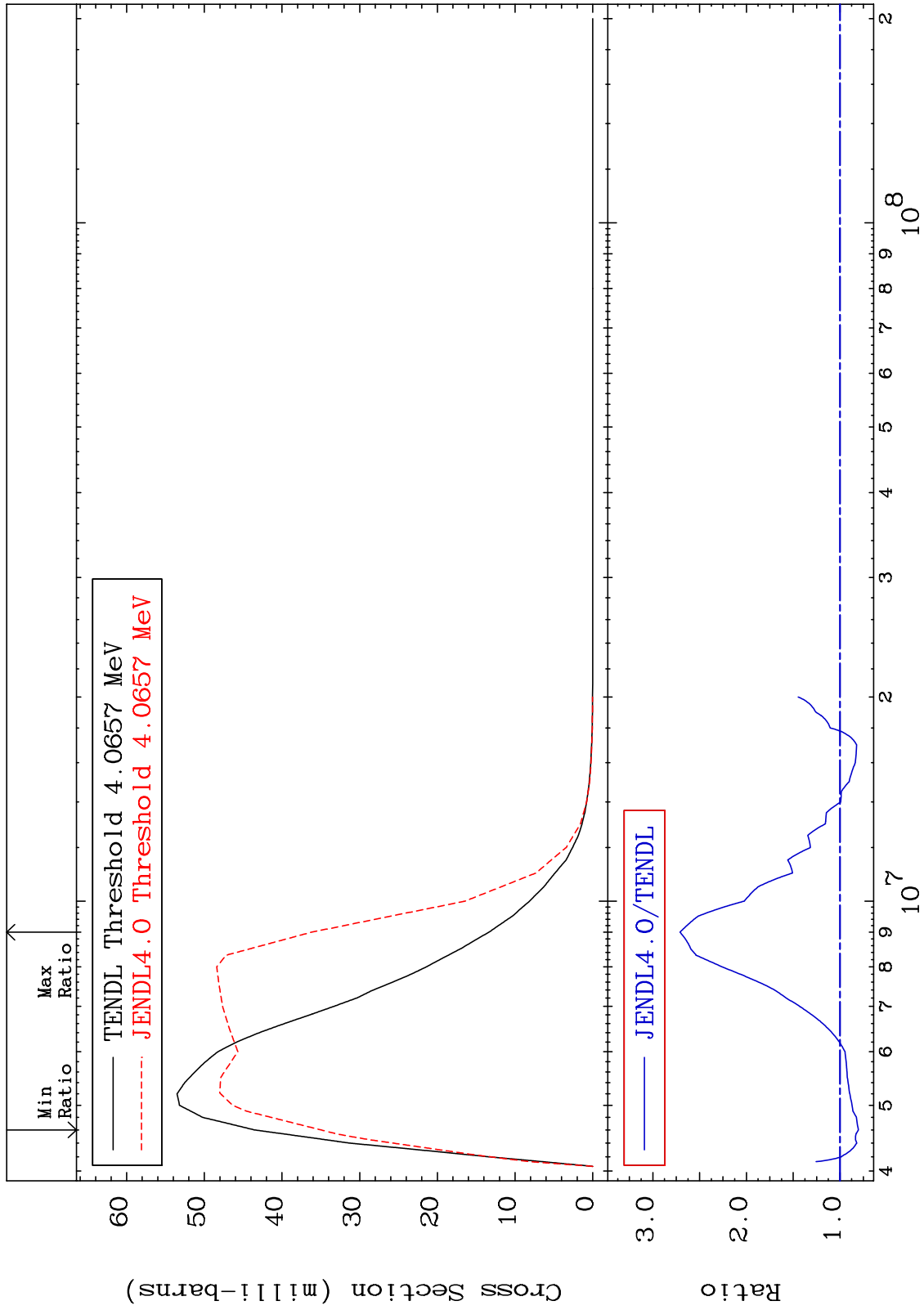
MT= 59 (n,n') Level  
Cross Section

12-Mg-25  
-27.75 To 184.3 %

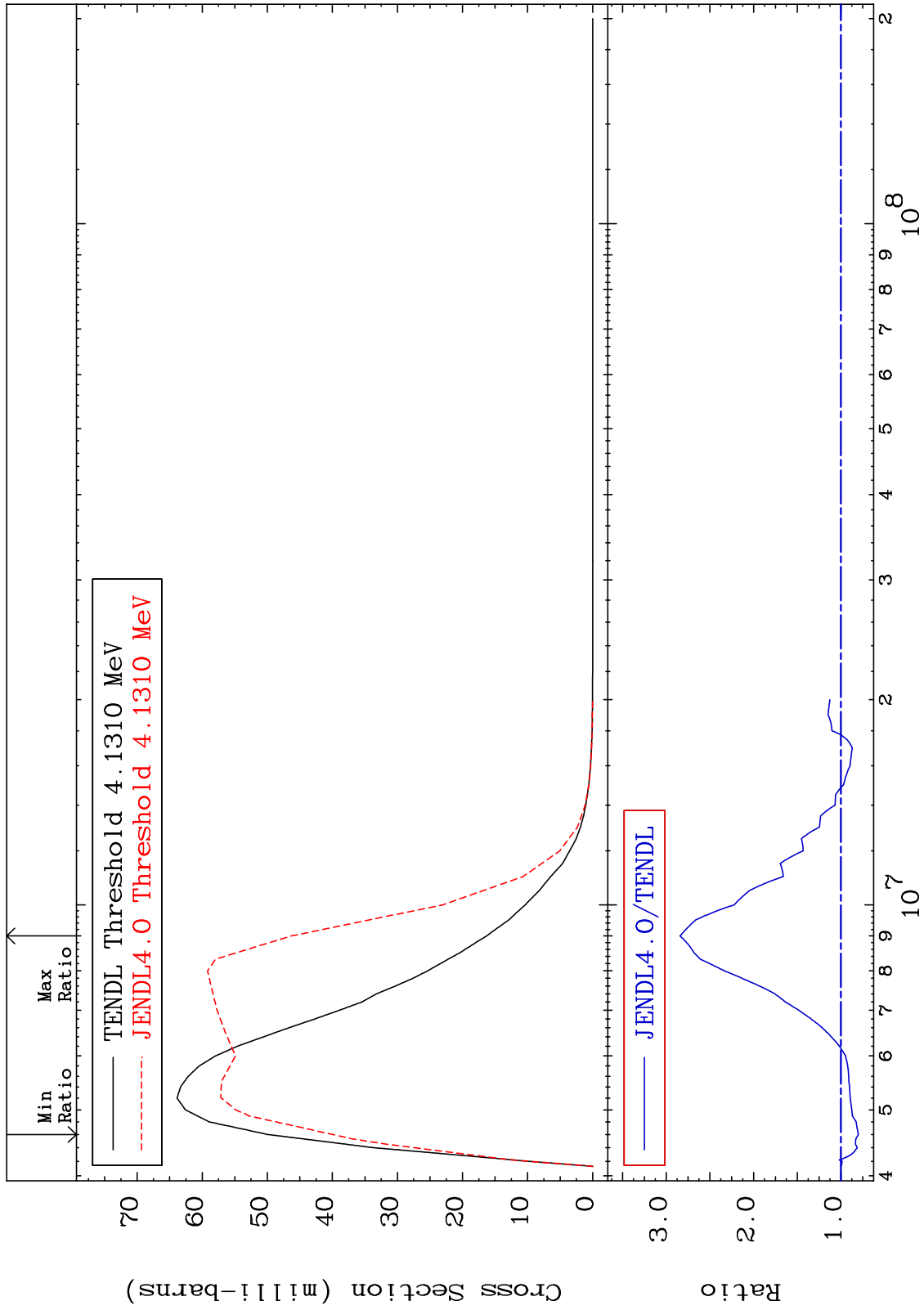




MAT 1228 MT= 60 (n,n') Level  
Cross Section 12-Mg-25  
-19.66 To 170.9 %



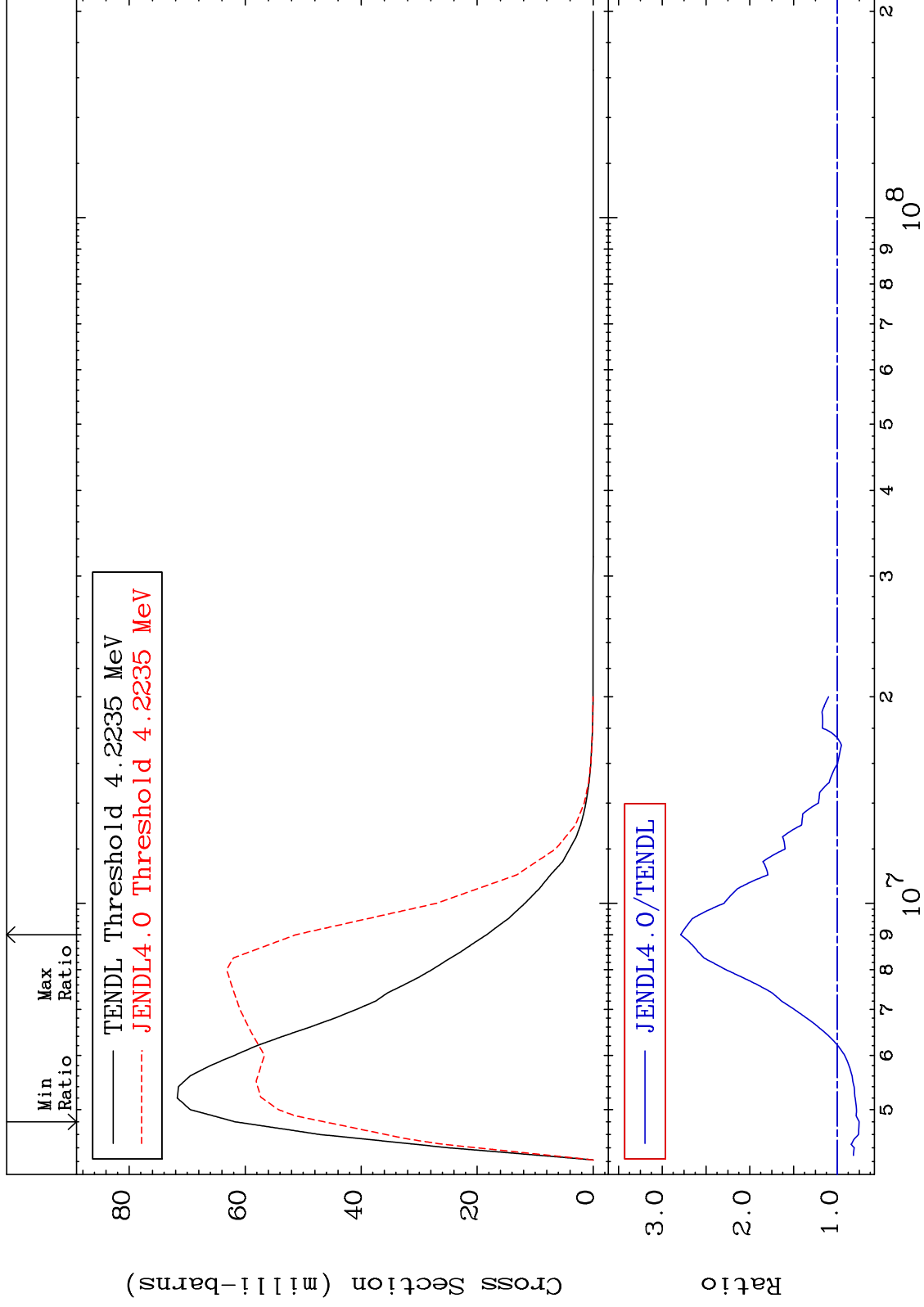
MAT 1228 MT= 61 (n,n') Level  
Cross Section 12-Mg-25  
-19.99 To 184.2 %



MAT 1228

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

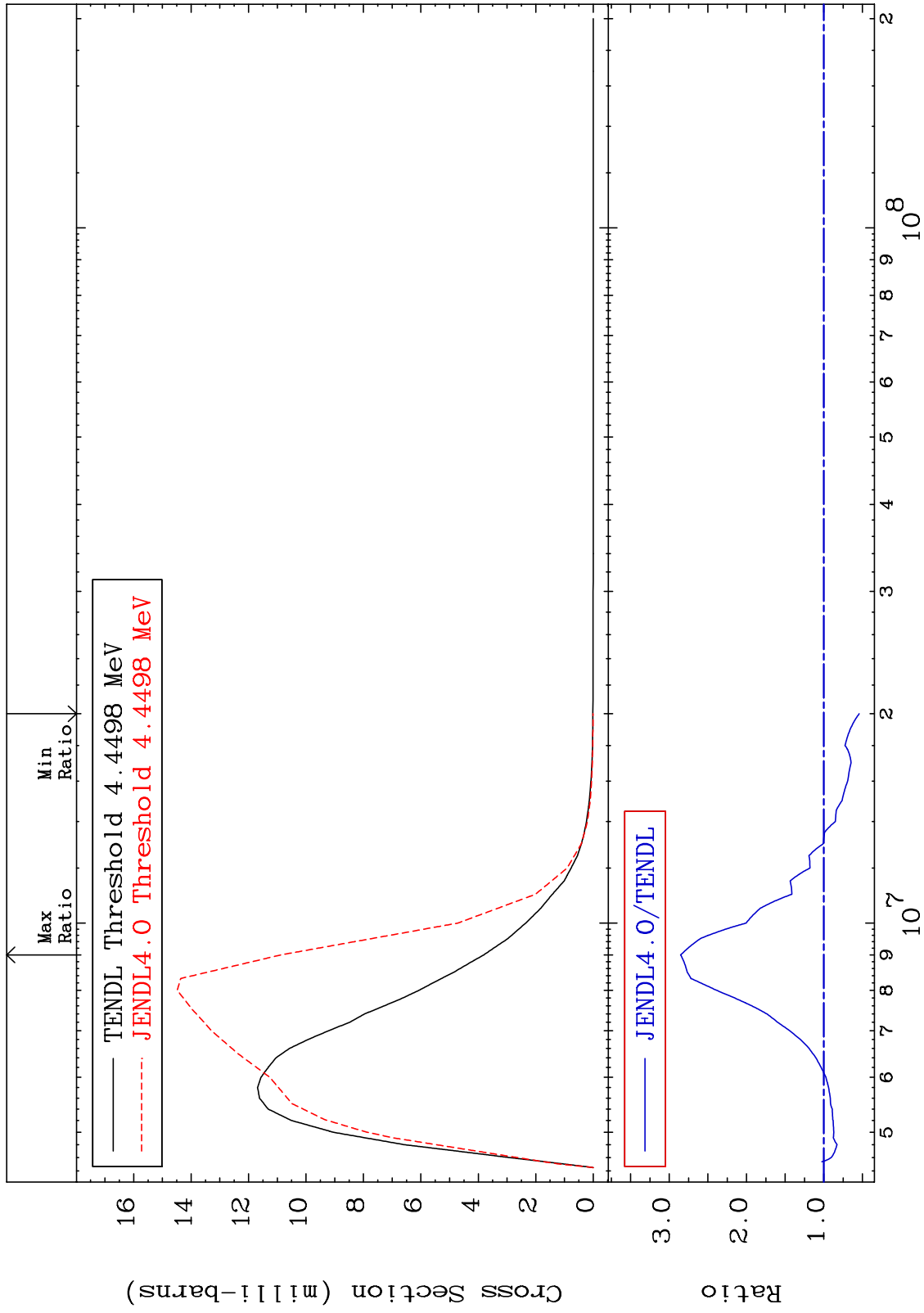
12-Mg-25  
-24.90 To 179.0 %



MAT 1228

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

12-Mg-25  
-45.70 To 185.3 %

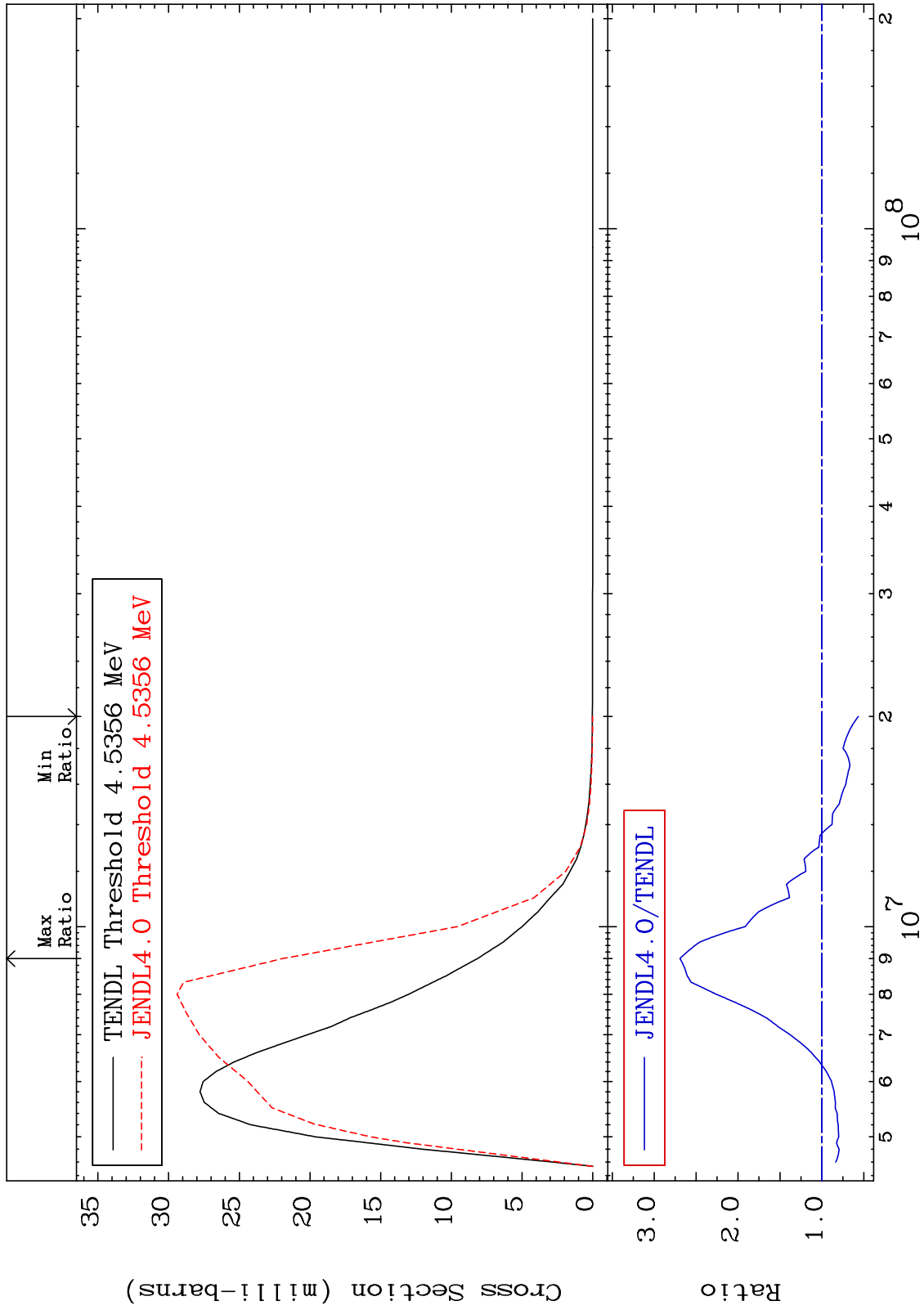


19

Incident Energy (eV)

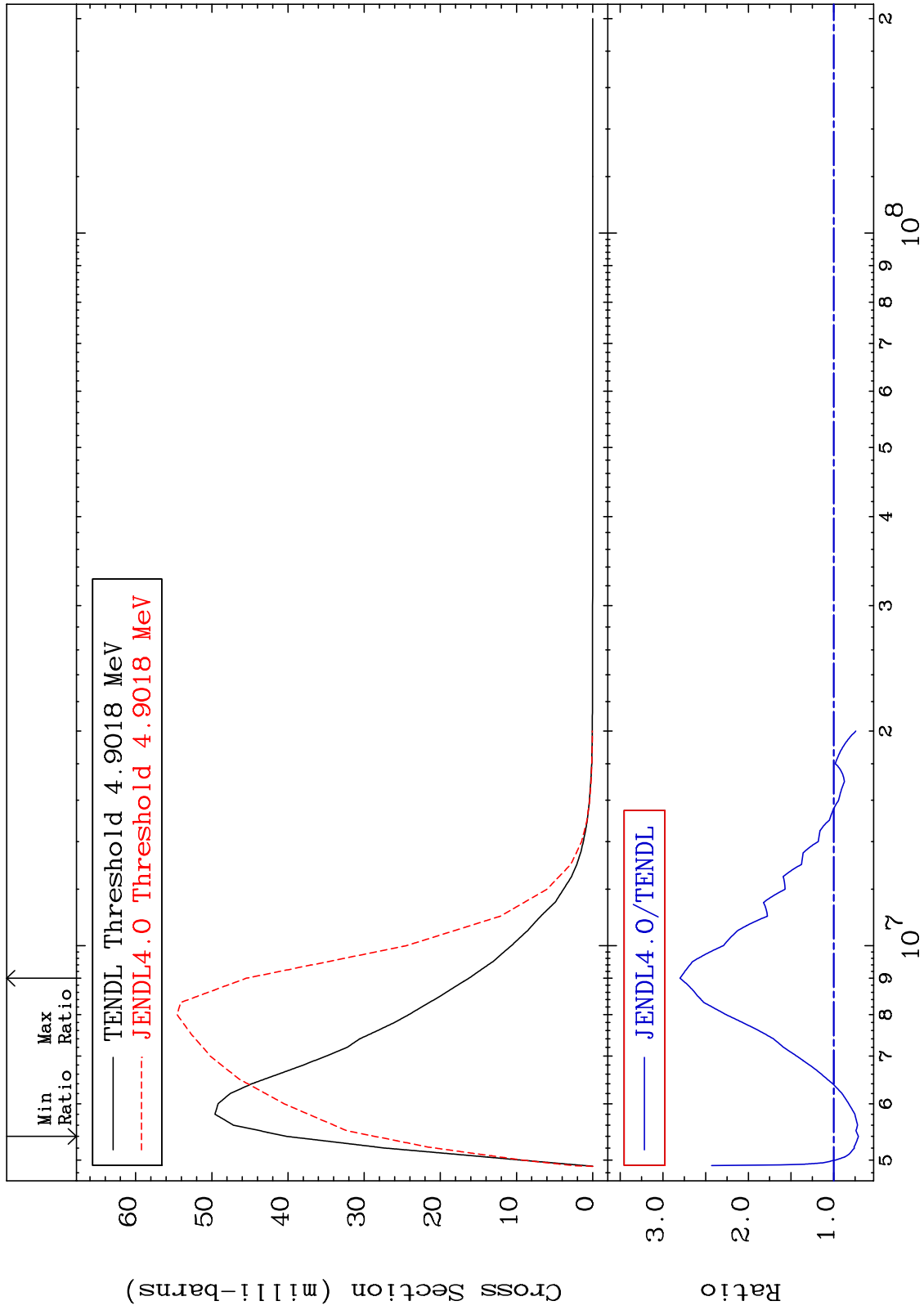
12-Mg-25

MAT 1228 MT= 64 (n,n') Level Cross Section 12-Mg-25  
 -43.57 To 169.2 %



20 Incident Energy (eV) 12-Mg-25

MAT 1228 MT= 65 (n,n') Level  
Cross Section 12-Mg-25  
-28.90 To 180.0 %



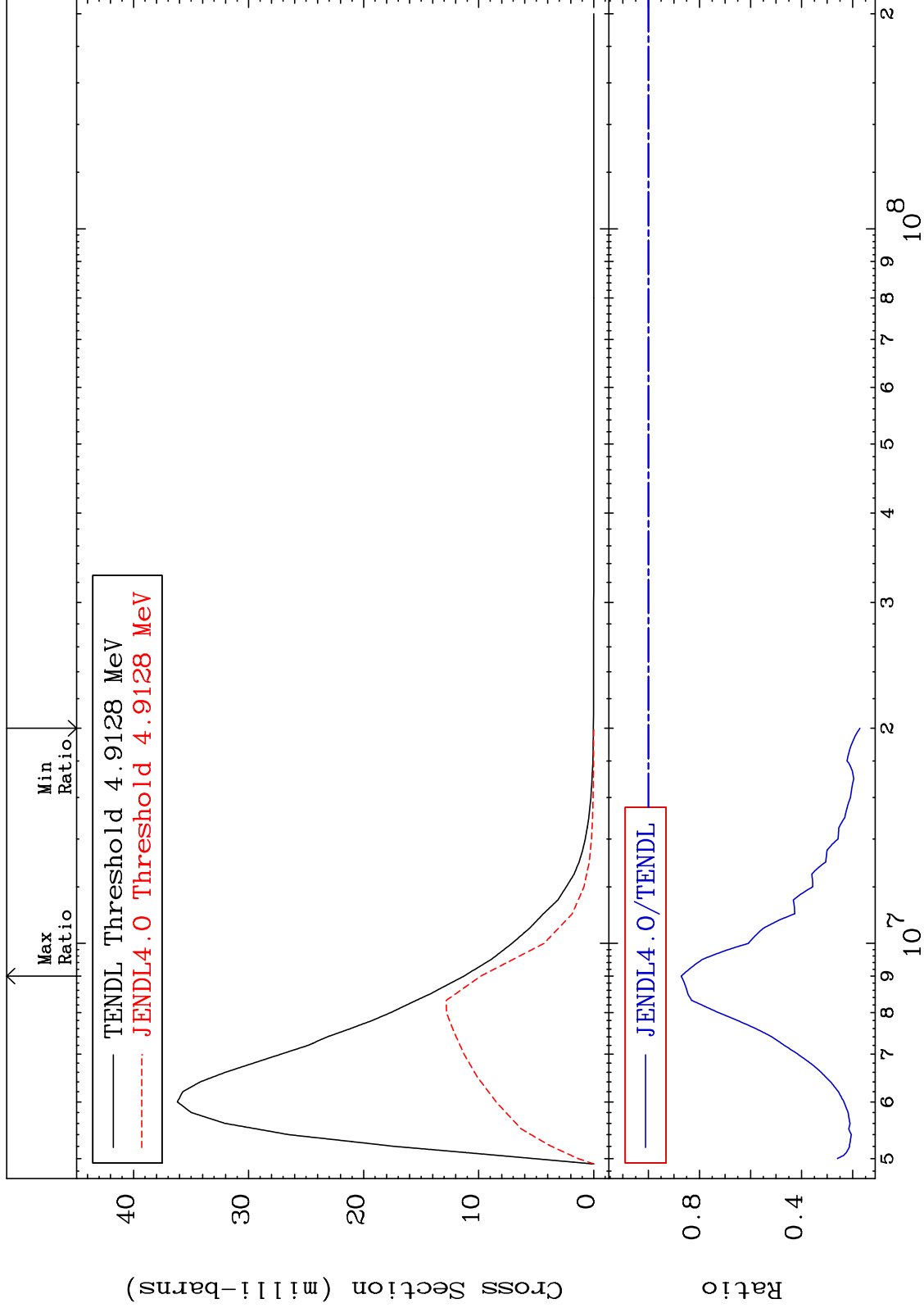
12-Mg-25

Incident Energy (eV)

MAT 1228

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

12-Mg-25  
-82.83 To -12.86%



22

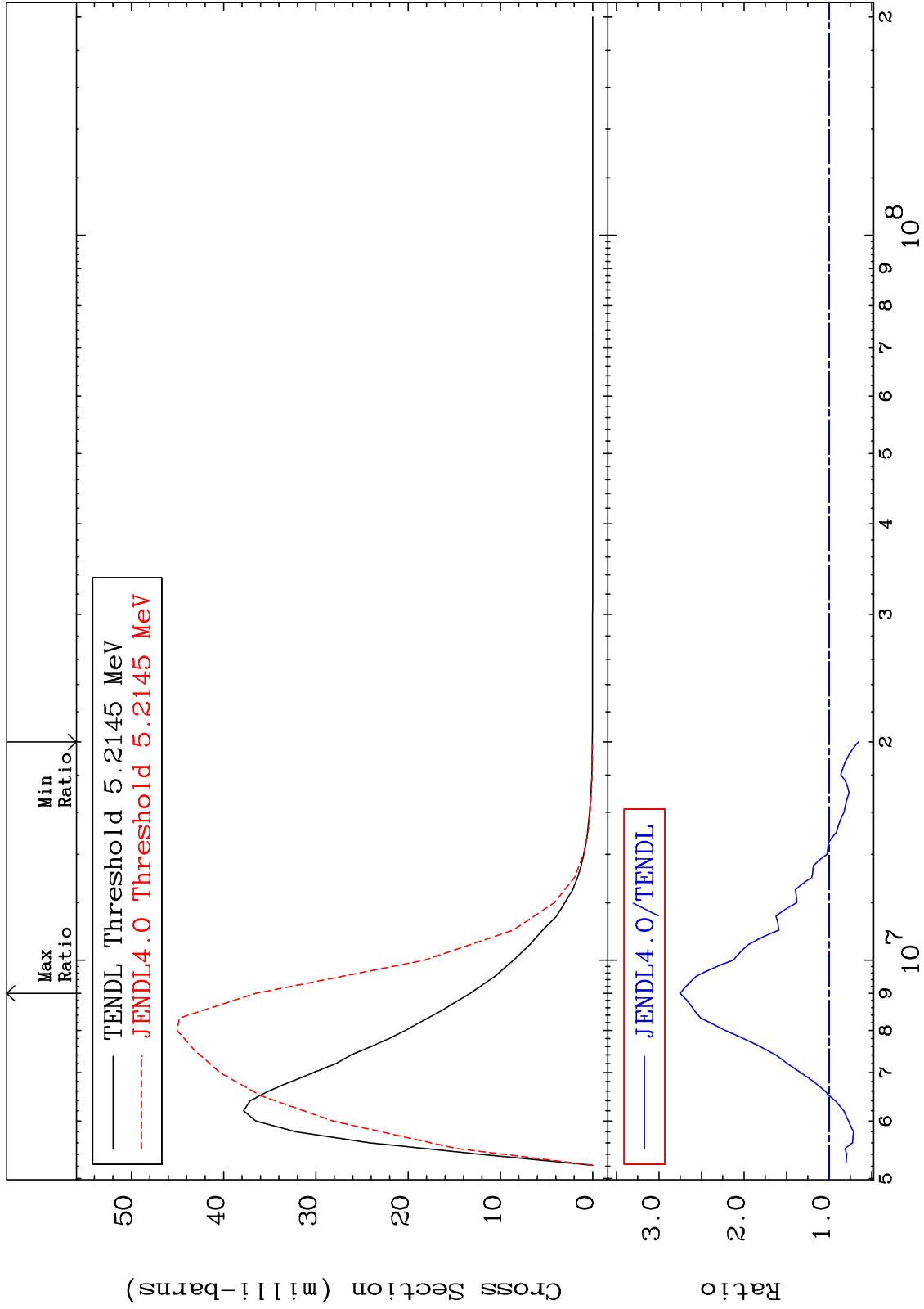
12-Mg-25

12-Mg-25

MAT 1228

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

12-Mg-25  
-34.50 To 175.2 %

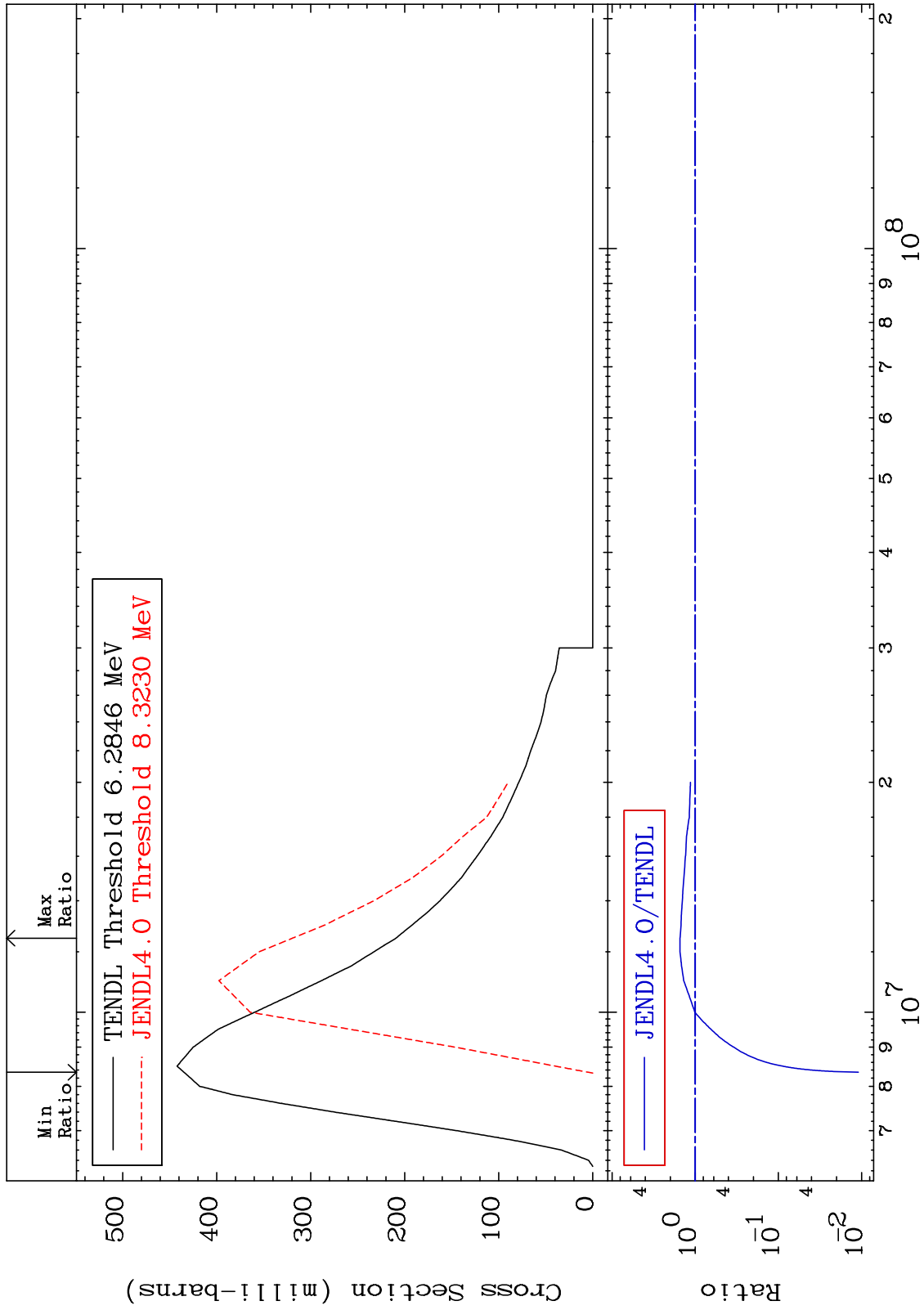




MAT 1228

(n, n') Continuum  
Cross Section

12-Mg-25  
-98.91 To 52.58 %

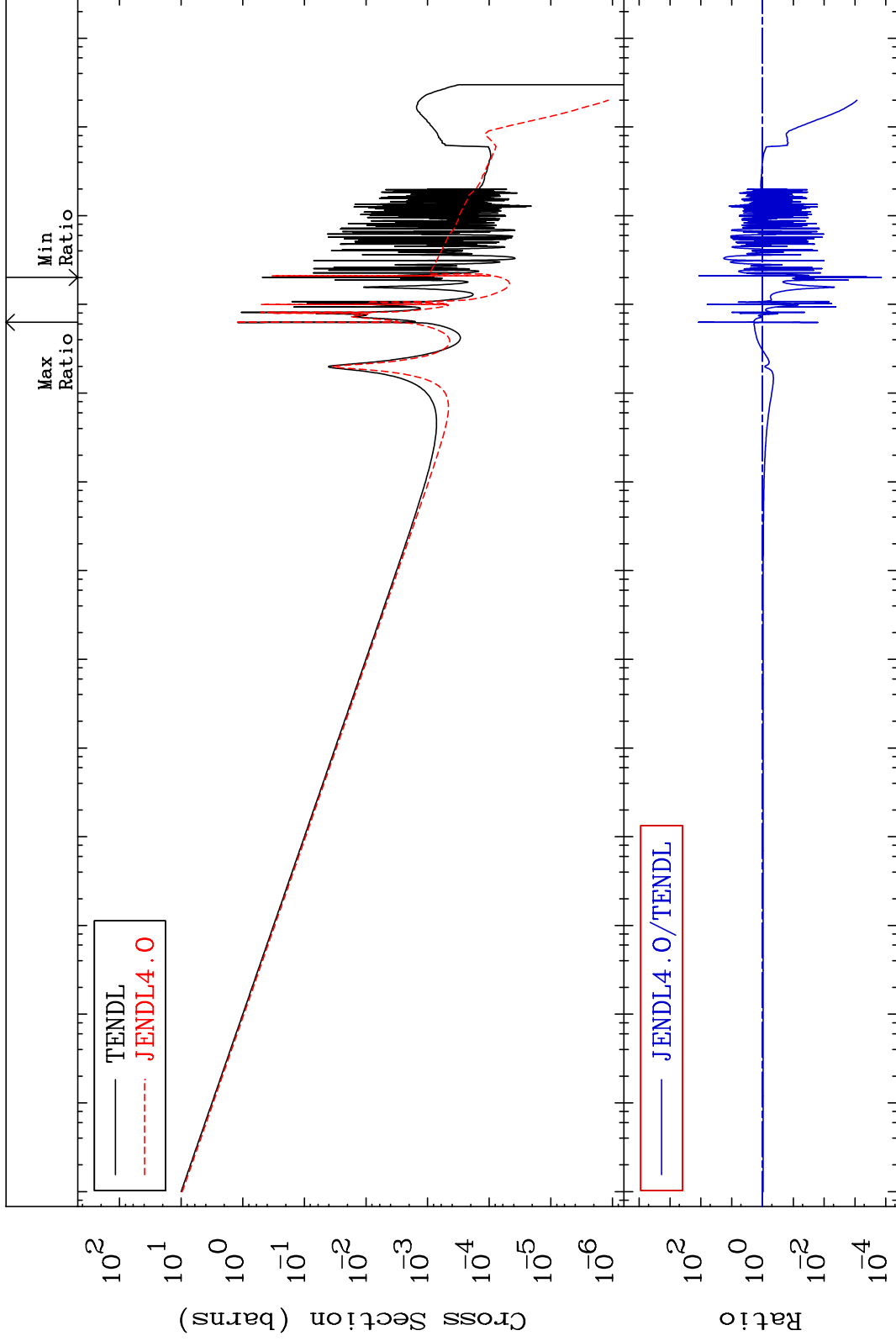


MAT 1228

(n,  $\gamma$ )

12-Mg-25  
-99.99 To 9999. %

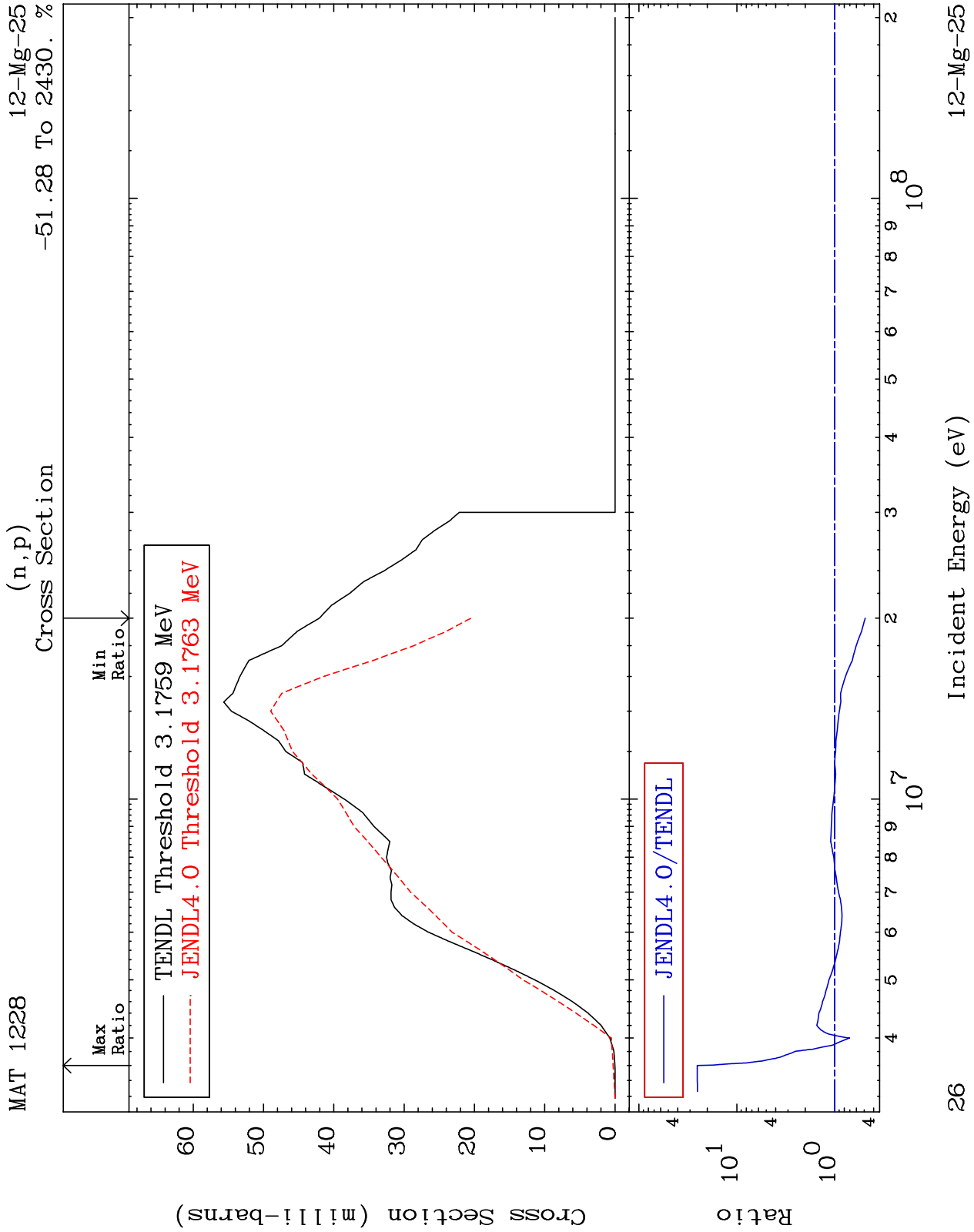
Cross Section



25

Incident Energy (eV)

12-Mg-25



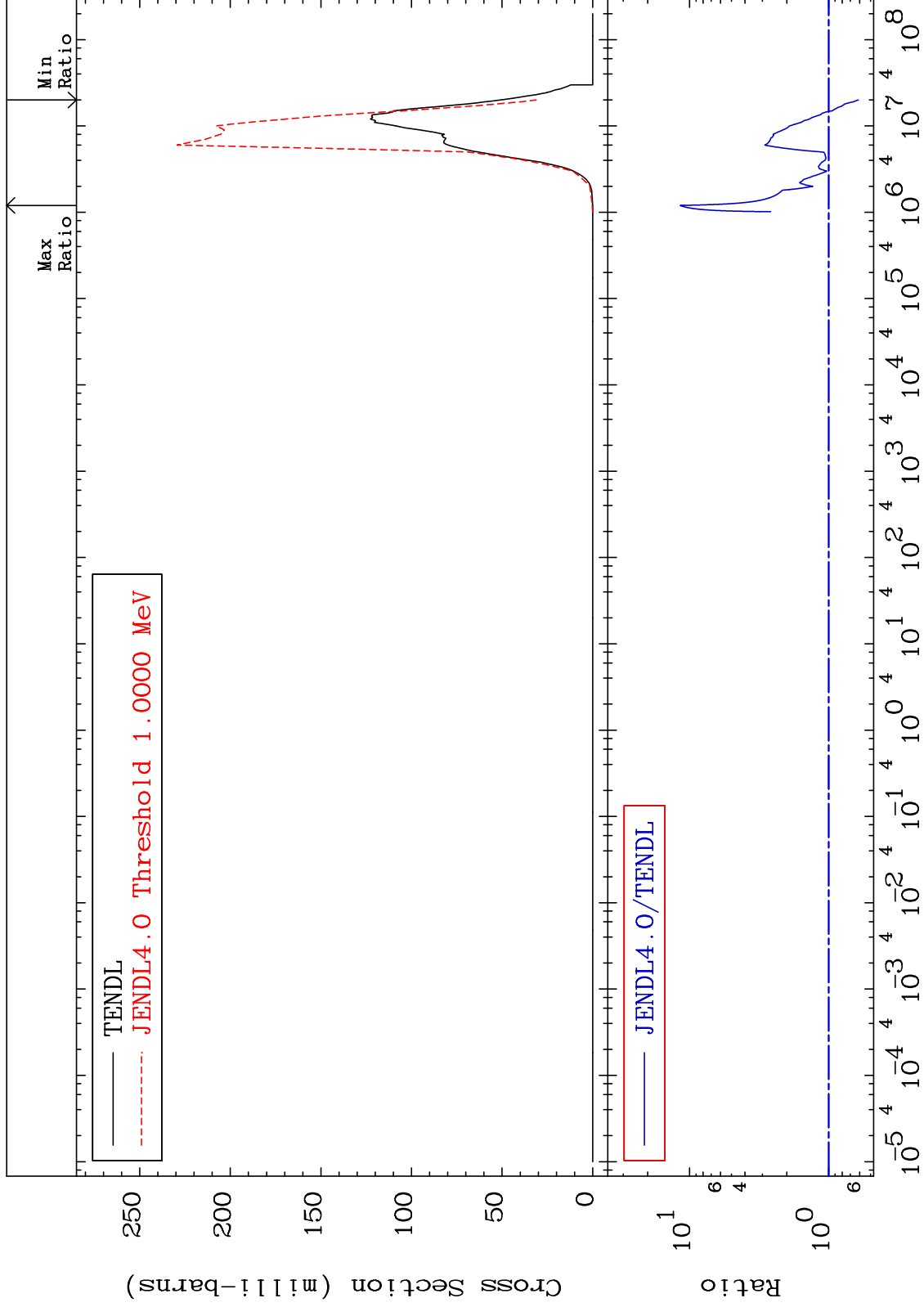
MAT 1228

(n,  $\alpha$ )

12-Mg-25

Cross Section

-38.83 To 1073. %



27

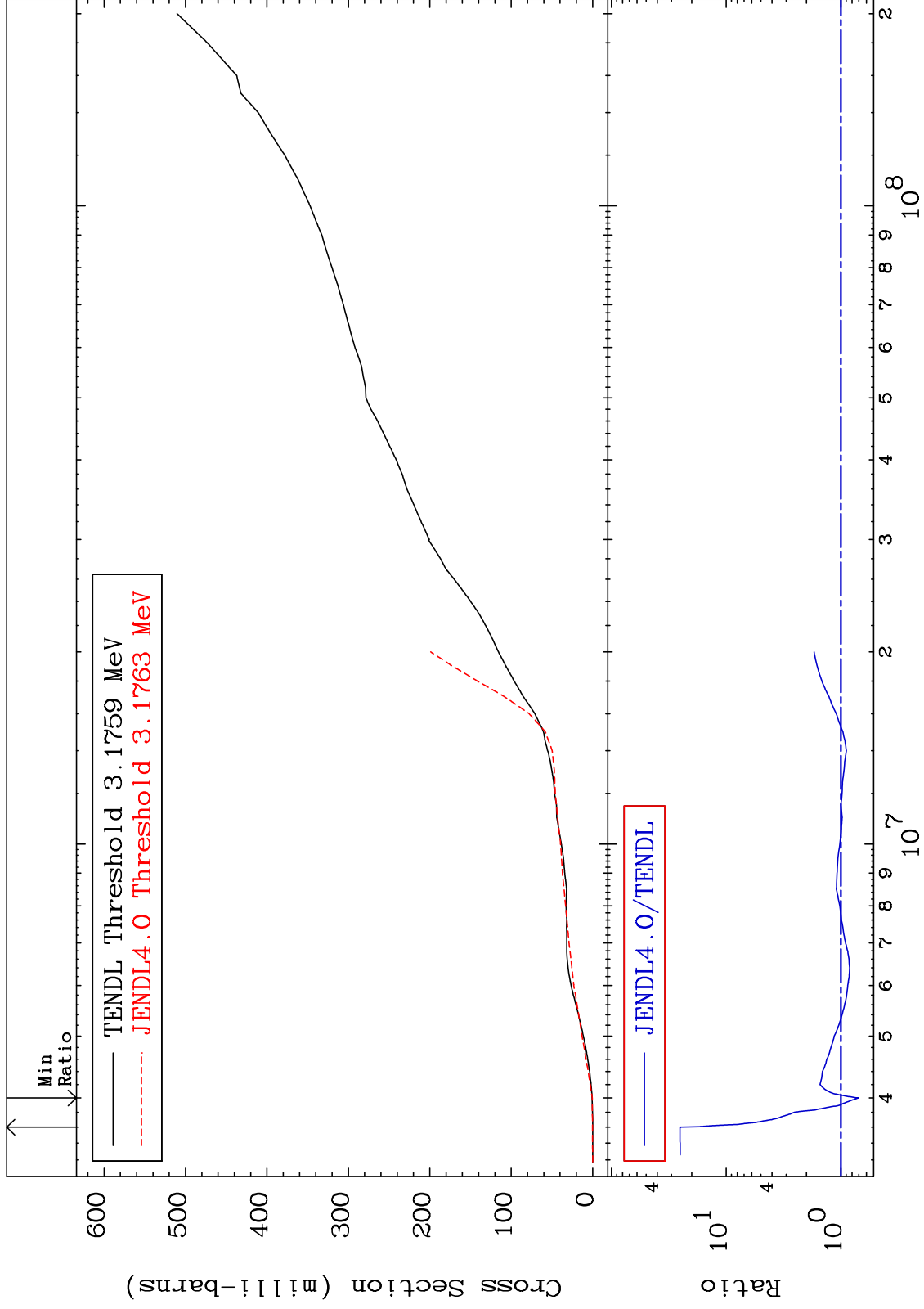
Incident Energy (eV)

12-Mg-25

MAT 1228

Hydrogen Production  
Cross Section

12-Mg-25  
-29.48 To 2430. %



28

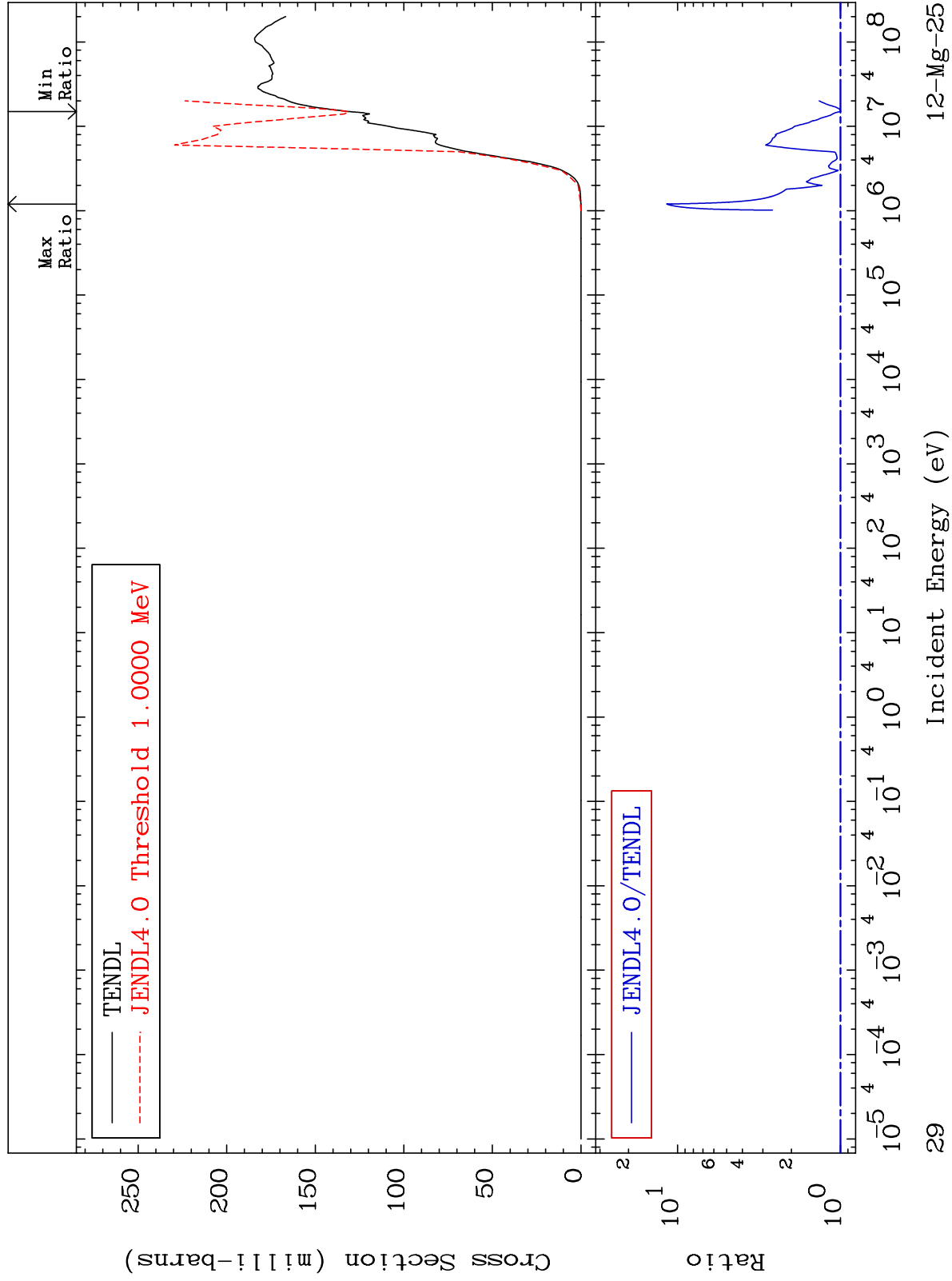
Incident Energy (eV)

12-Mg-25

MAT 1228

He-4 Production  
Cross Section

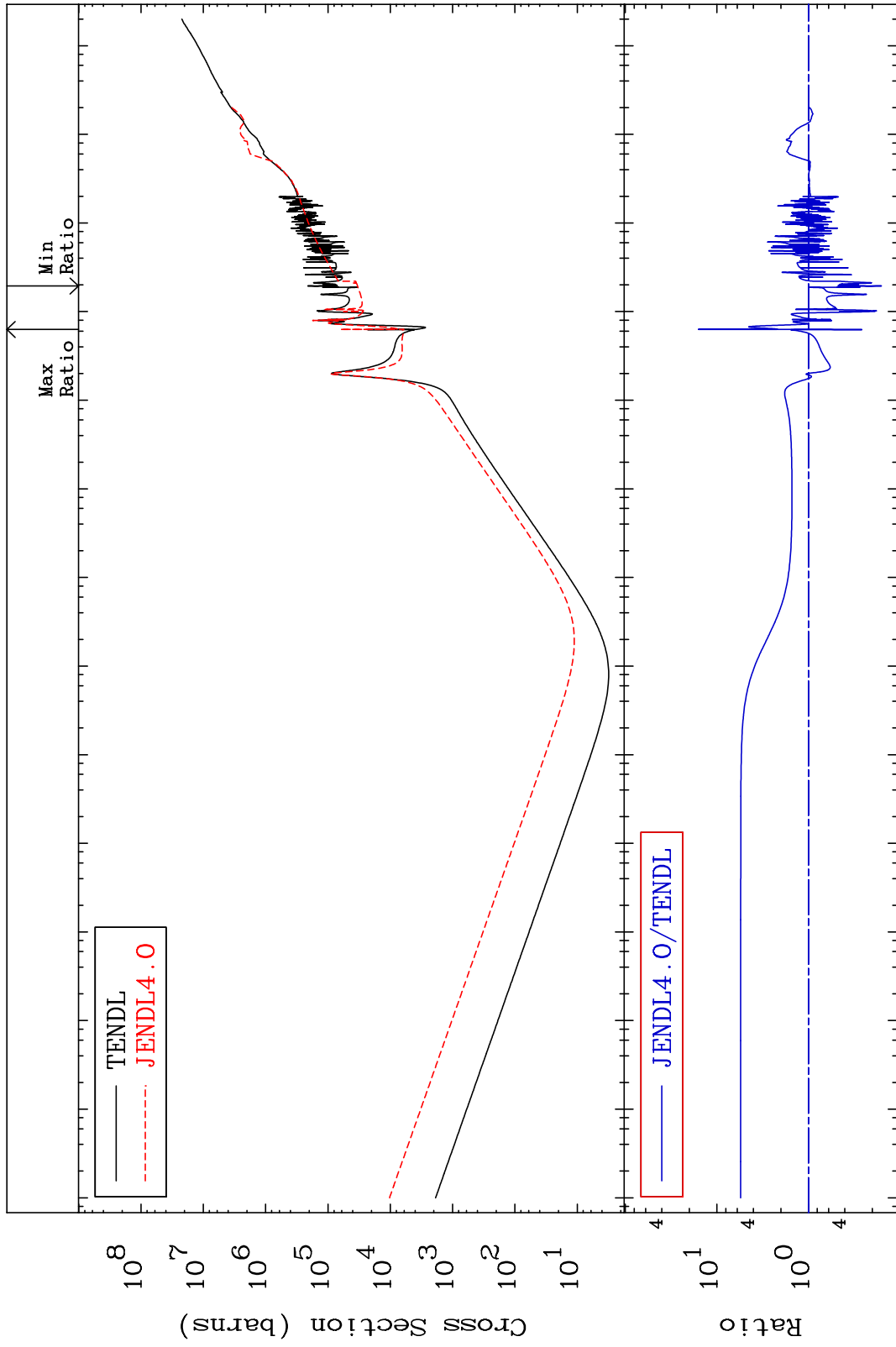
12-Mg-25  
-0.288 To 1073. %



MAT 1228

Kerma total (eV-barns)  
Cross Section

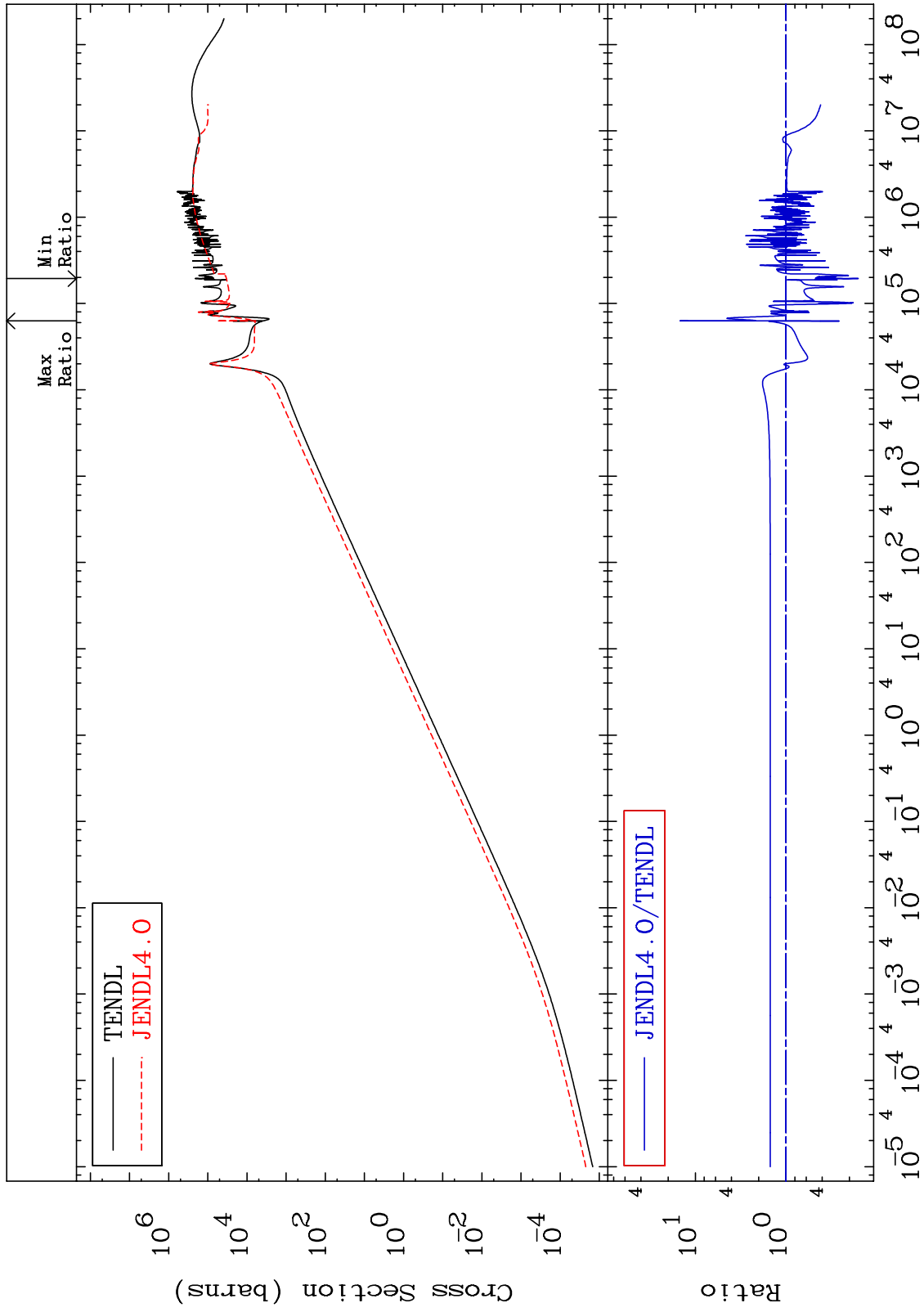
12-Mg-25  
-84.10 To 1493. %



MAT 1228

Kerma elastic  
Cross Section

12-Mg-25  
-84.10 To 1379. %

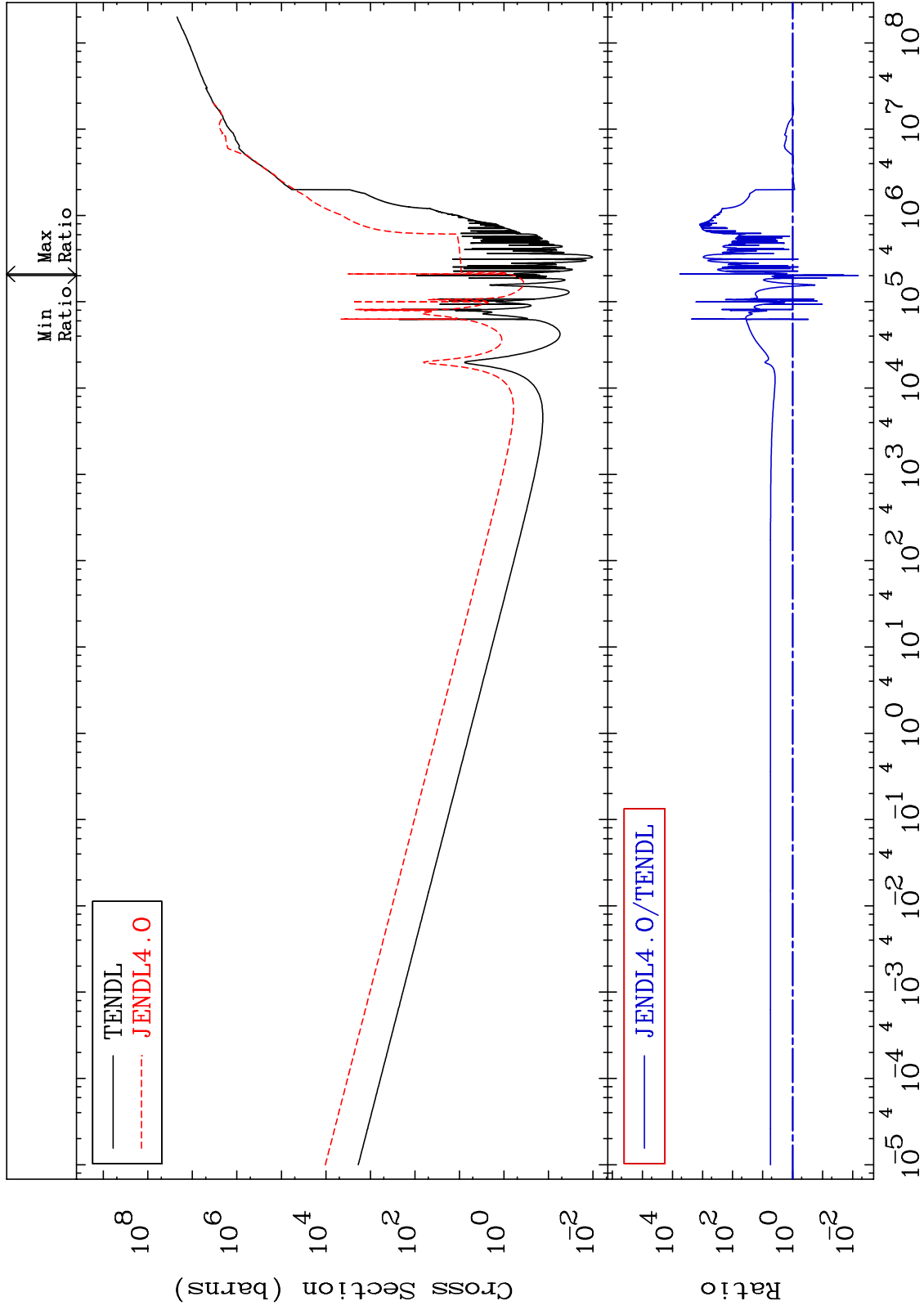




MAT 1228

Kerma non-elastic (all but mt2)  
Cross Section

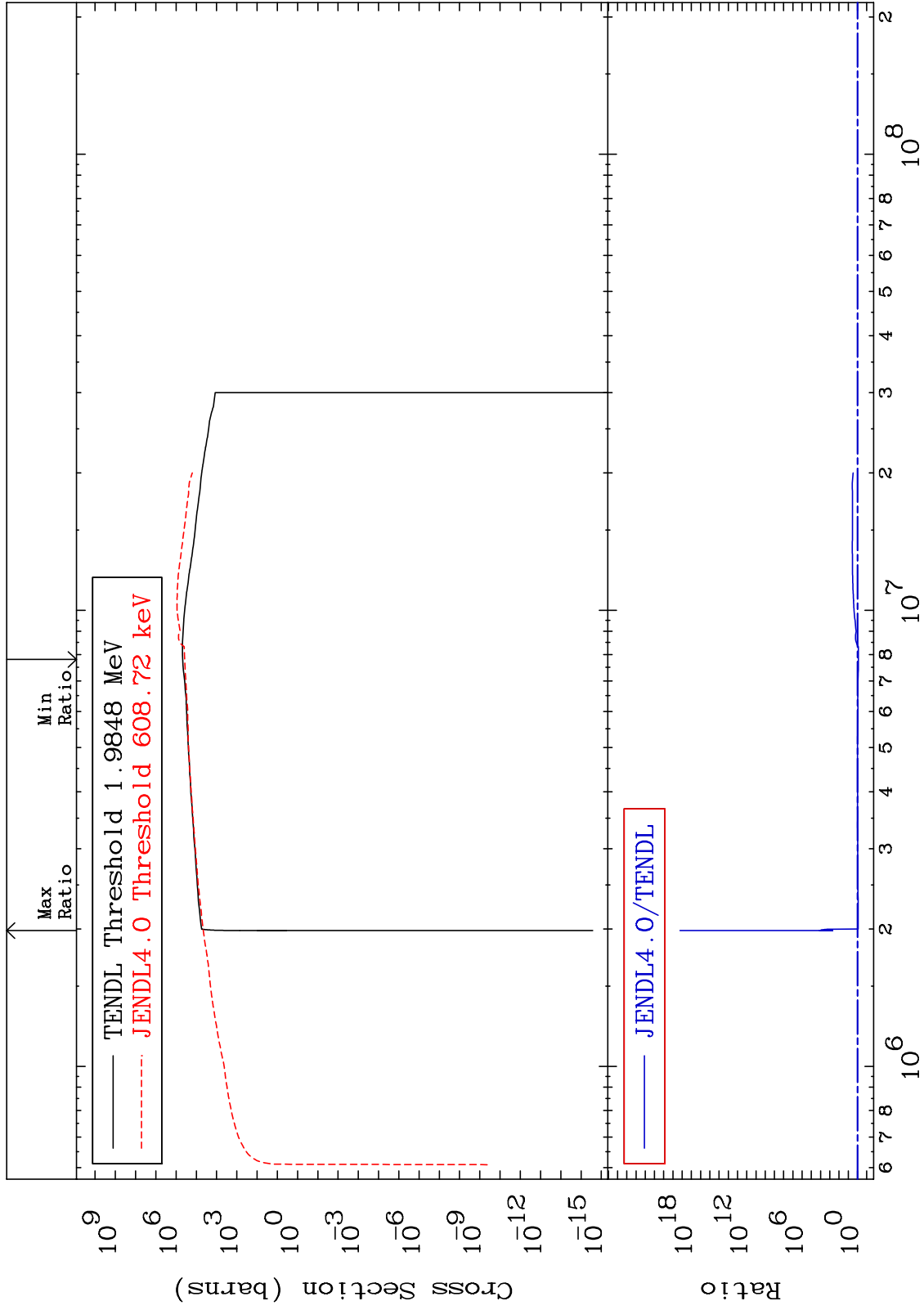
12-Mg-25  
-99.35 To 9999. %



MAT 1228

Kerma inelastic (mt51-91)  
Cross Section

12-Mg-25  
-21.12 To 9999. %



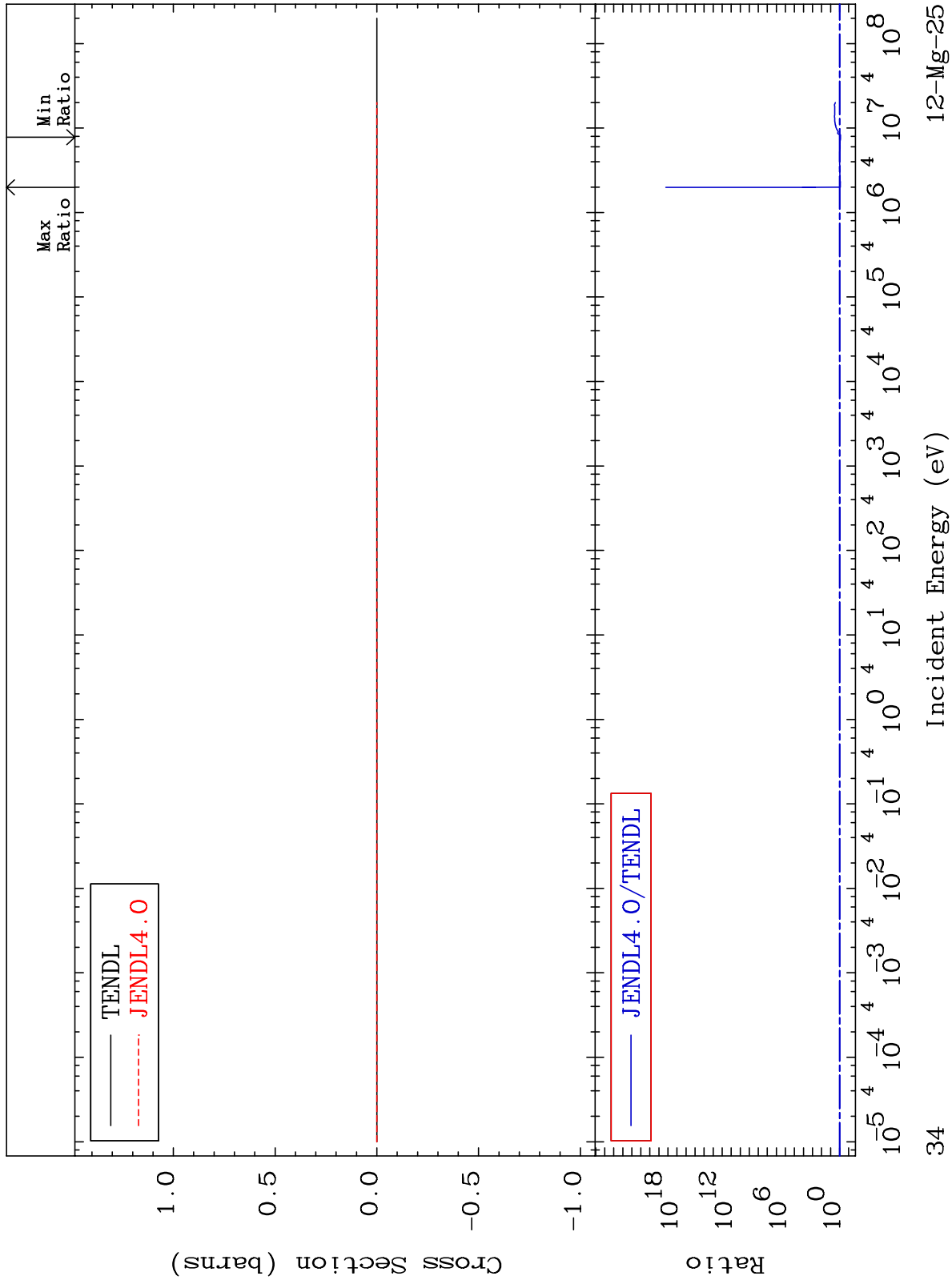
Incident Energy (eV)

12-Mg-25

MAT 1228

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

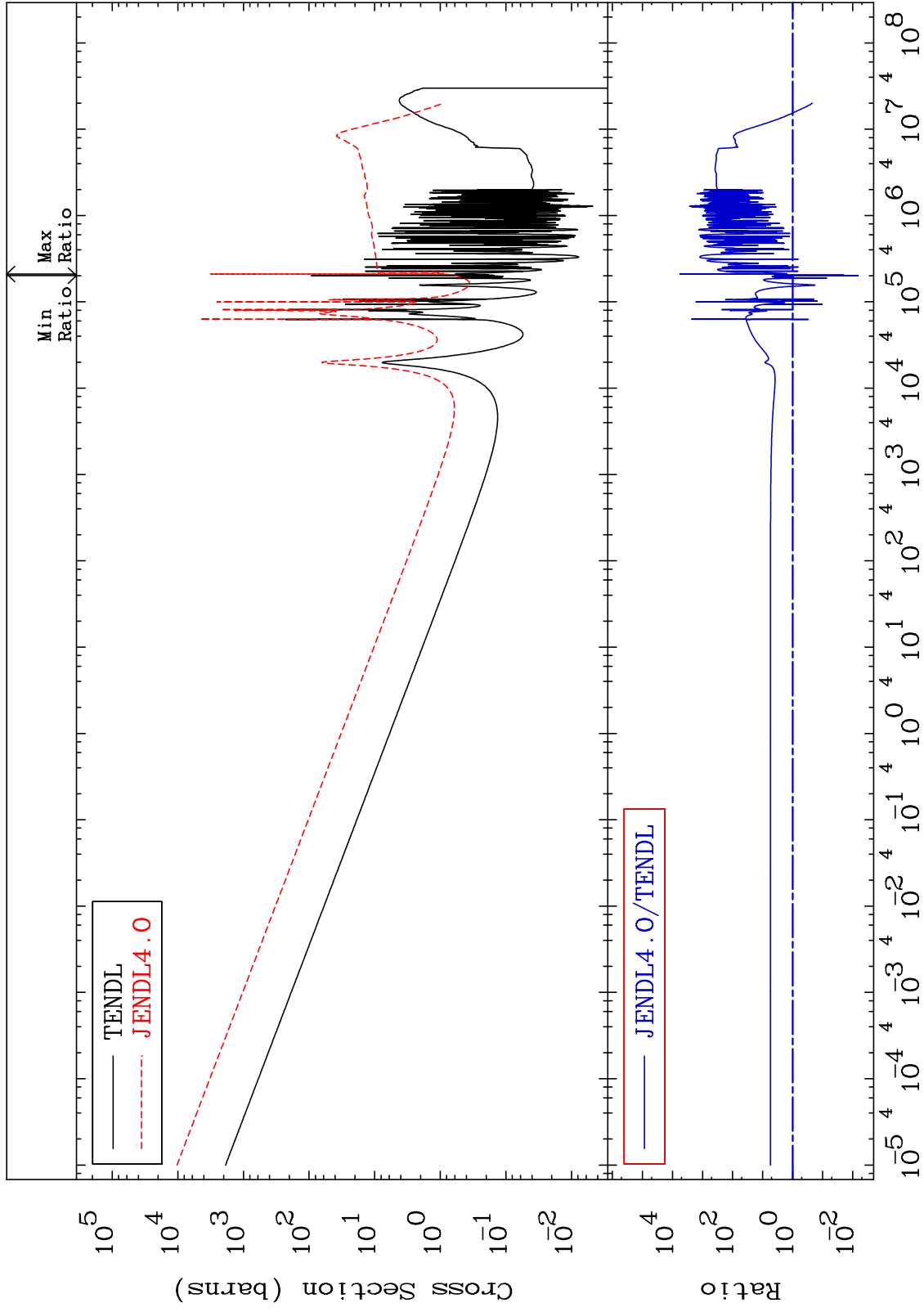
12-Mg-25  
-21.12 To 9999. %



MAT 1228

Kerma capture (mt102)  
Cross Section

12-Mg-25  
-99.35 To 9999. %



35

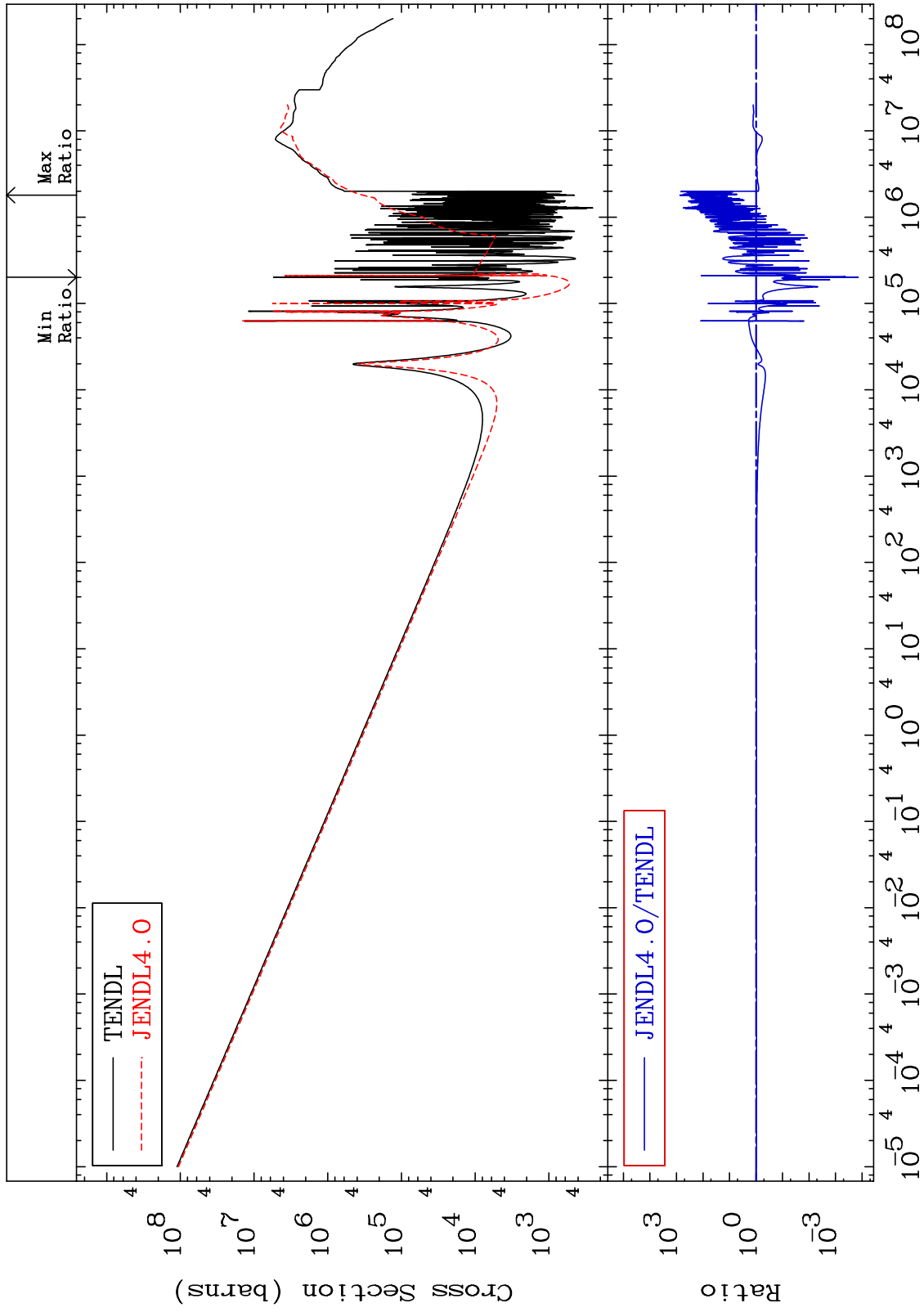
Incident Energy (eV)

12-Mg-25

MAT 1228

Total photon (eV-barns)  
Cross Section

12-Mg-25  
-99.99 To 9999. %



36

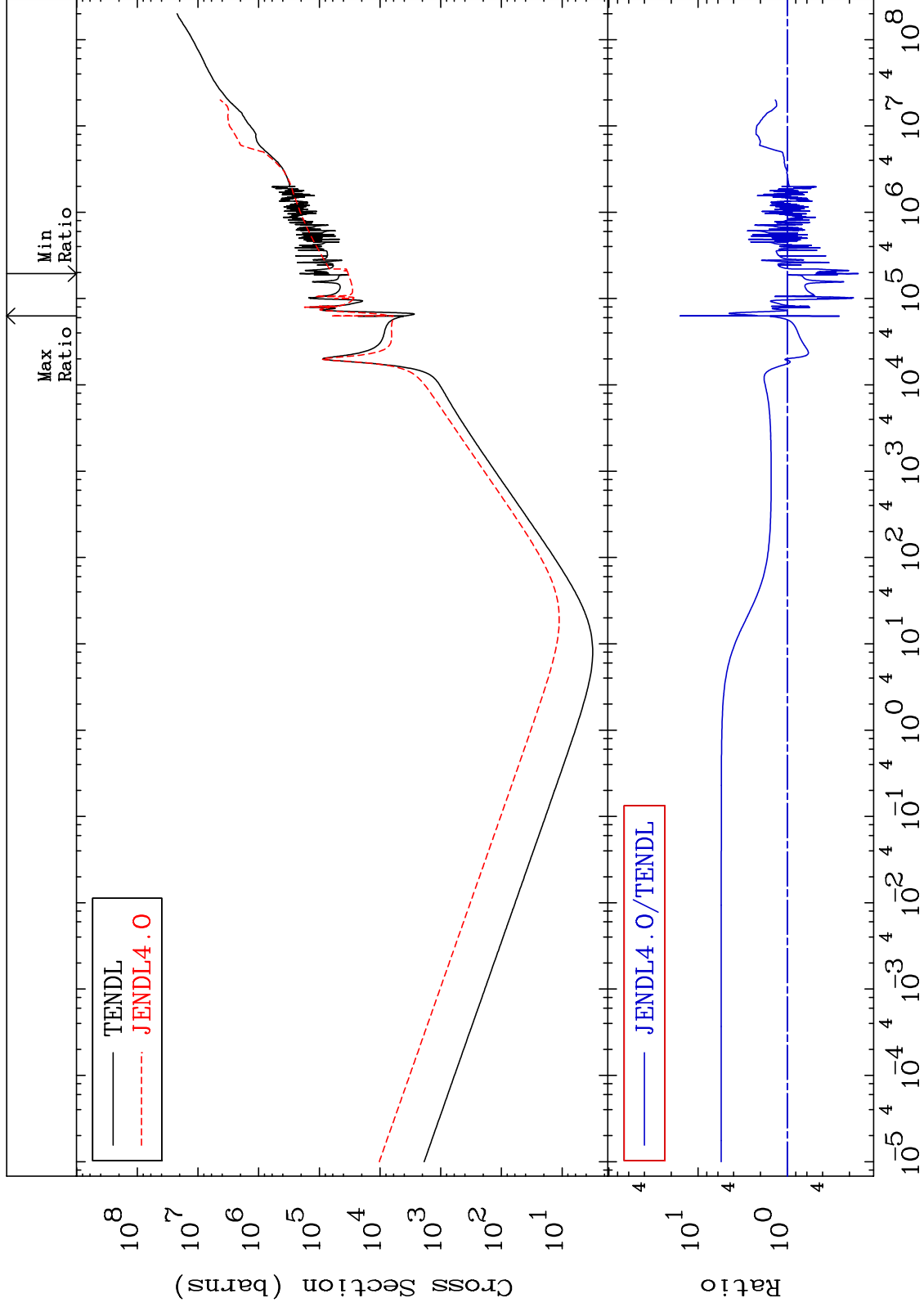
Incident Energy (eV)

12-Mg-25

MAT 1228

Total kinematic kerma (high limit)  
Cross Section

12-Mg-25  
-84.10 To 1493. %



37

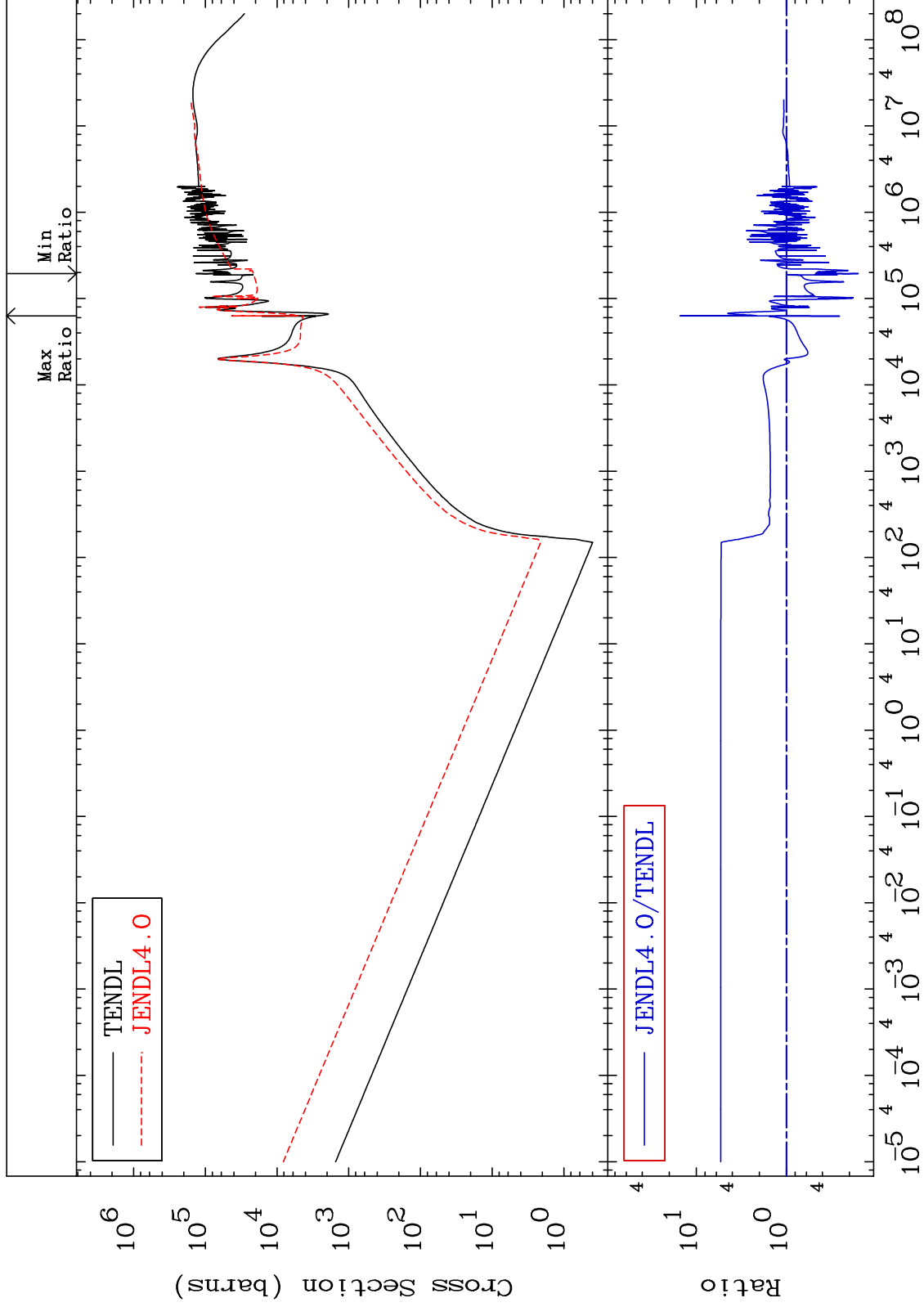
Incident Energy (eV)

12-Mg-25

MAT 1228

Dpa total (eV-barns)  
Cross Section

12-Mg-25  
-84.09 To 1419. %



38

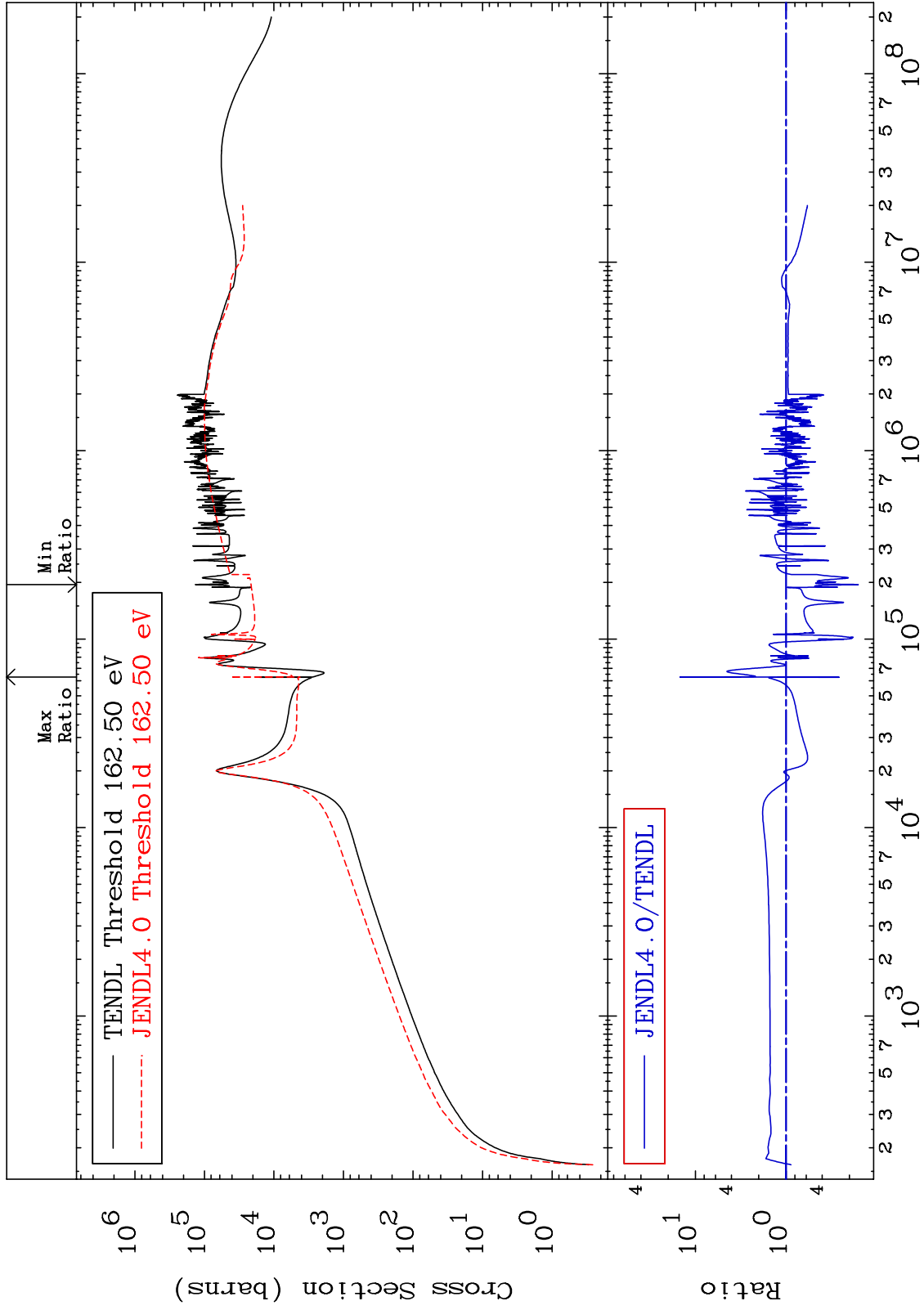
Incident Energy (eV)

12-Mg-25

MAT 1228

Dpa elastic (mt2)  
Cross Section

12-Mg-25  
-84.09 To 1379. %

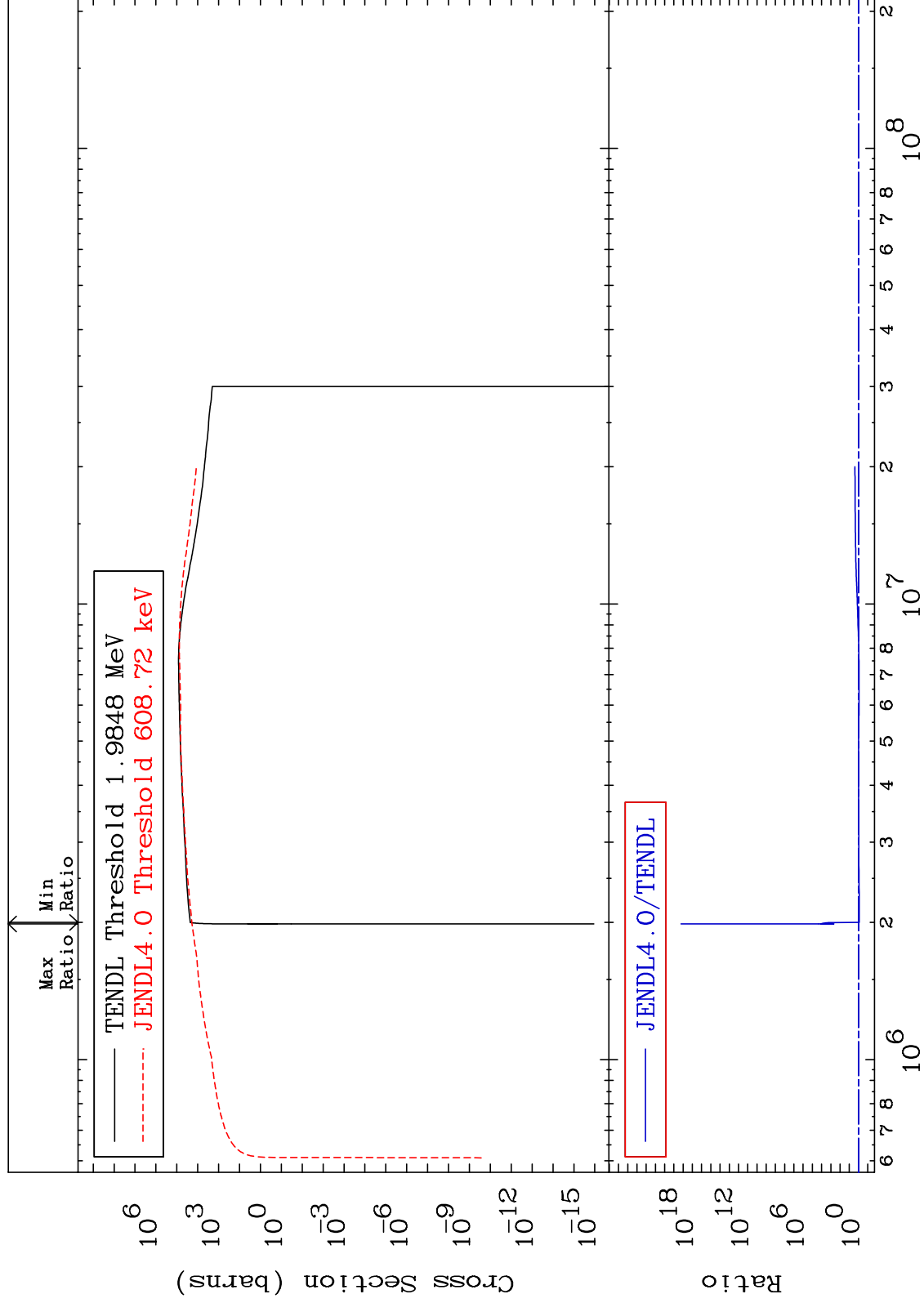




MAT 1228

Dpa inelastic (mt51-91)  
Cross Section

12-Mg-25  
-17.75 To 9999. %



40

Incident Energy (eV)

12-Mg-25

MAT 1228

Dpa disappearance (mt102 -120)  
Cross Section

12-Mg-25  
-99.92 To 9999. %

