

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

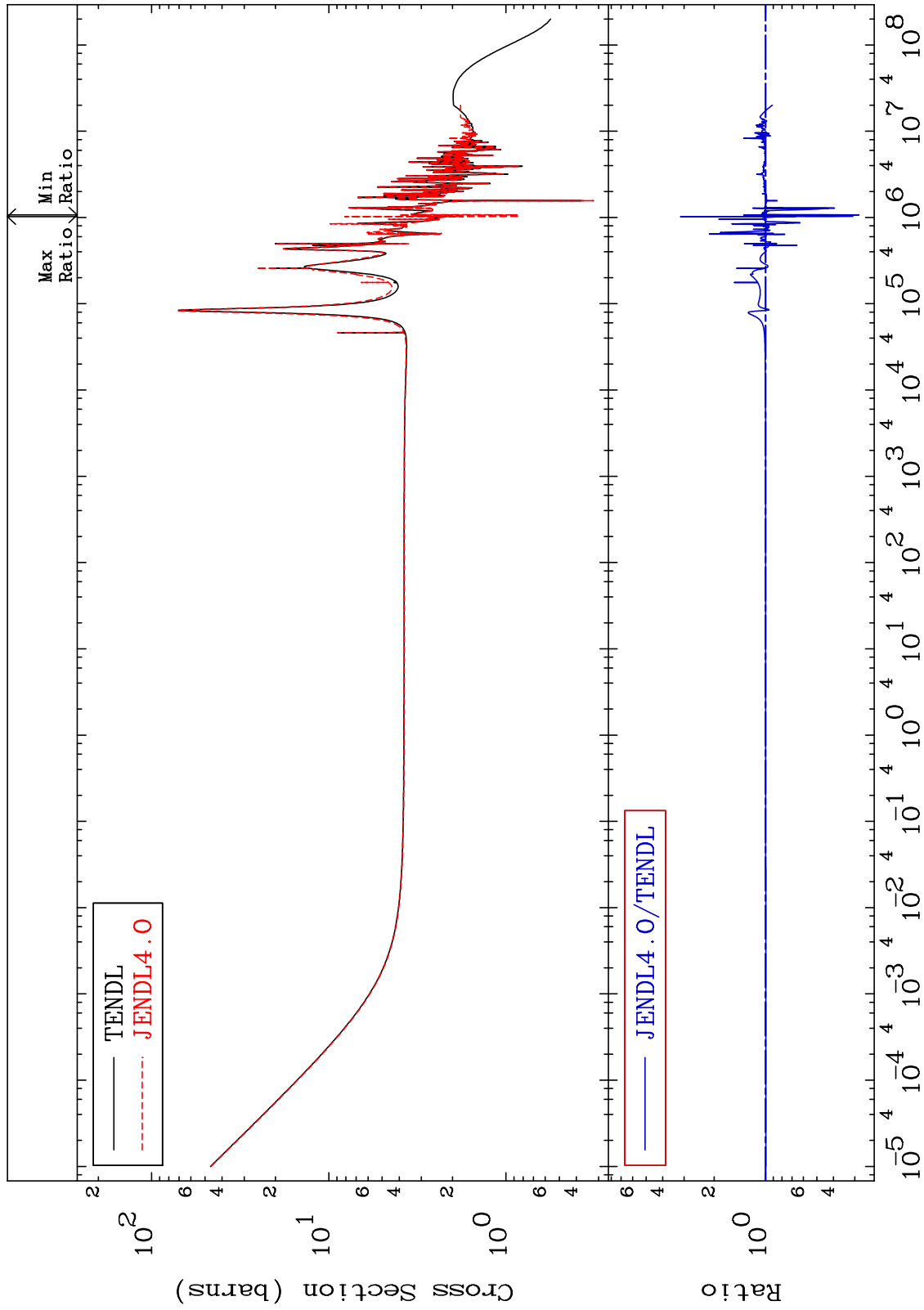
U.S.A.

Tele: 925-443-1911

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

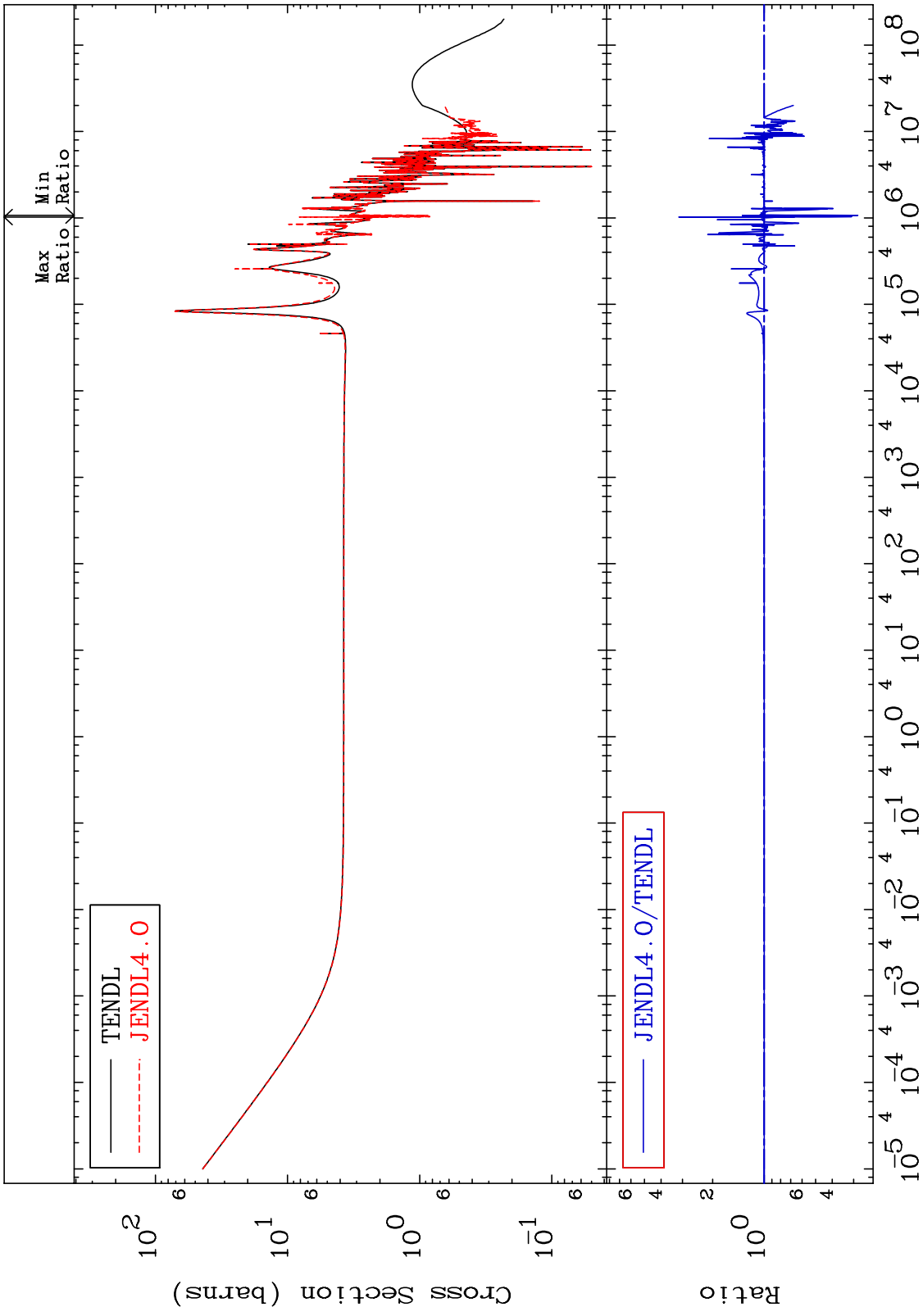
Press Mouse Button to Start

MAT 1225 Total Cross Section 12-Mg-24 -71.63 To 214.0 %



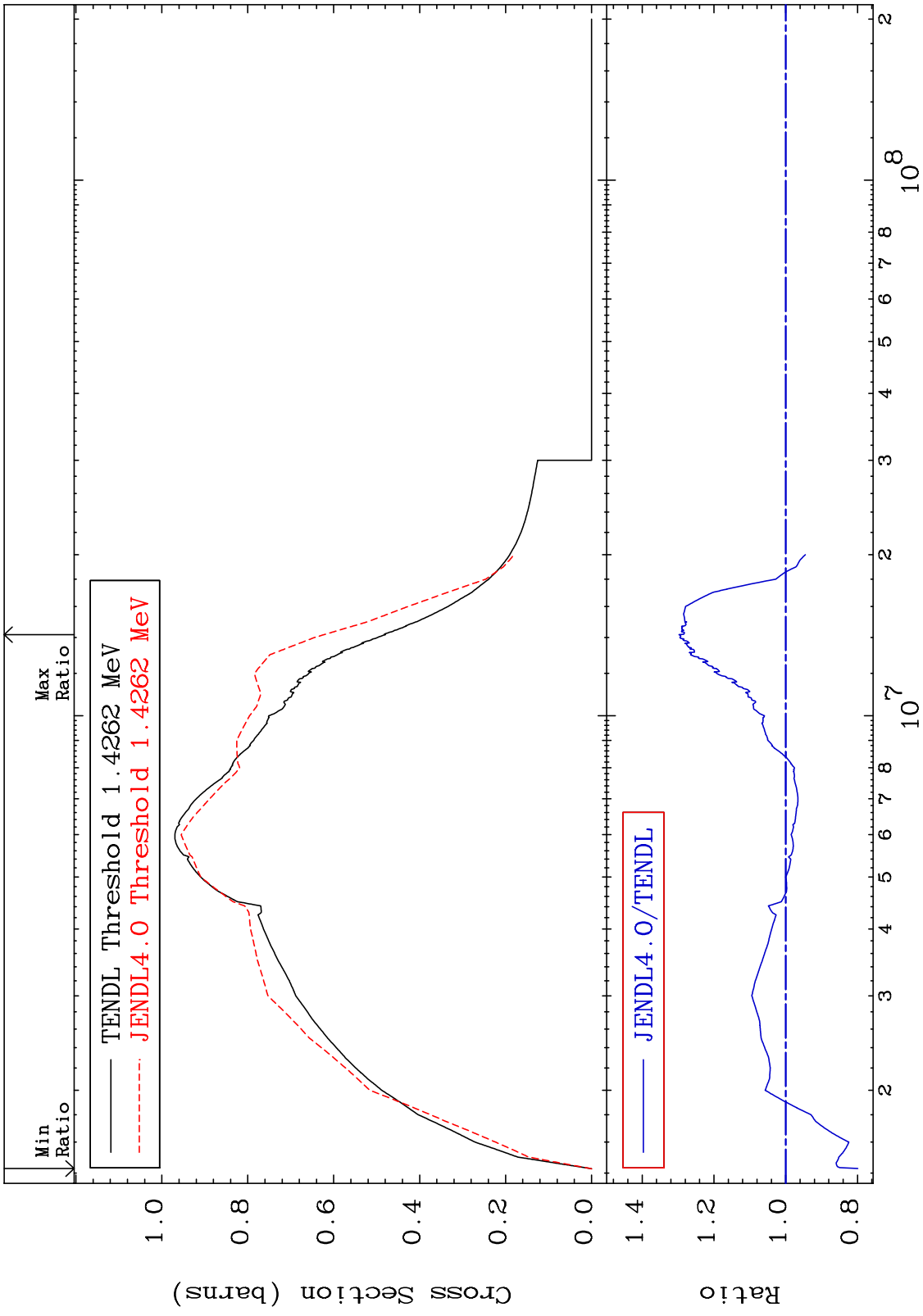
1 12-Mg-24

MAT 1225 Elastic Cross Section 12-Mg-24 -71.64 To 214.0 %

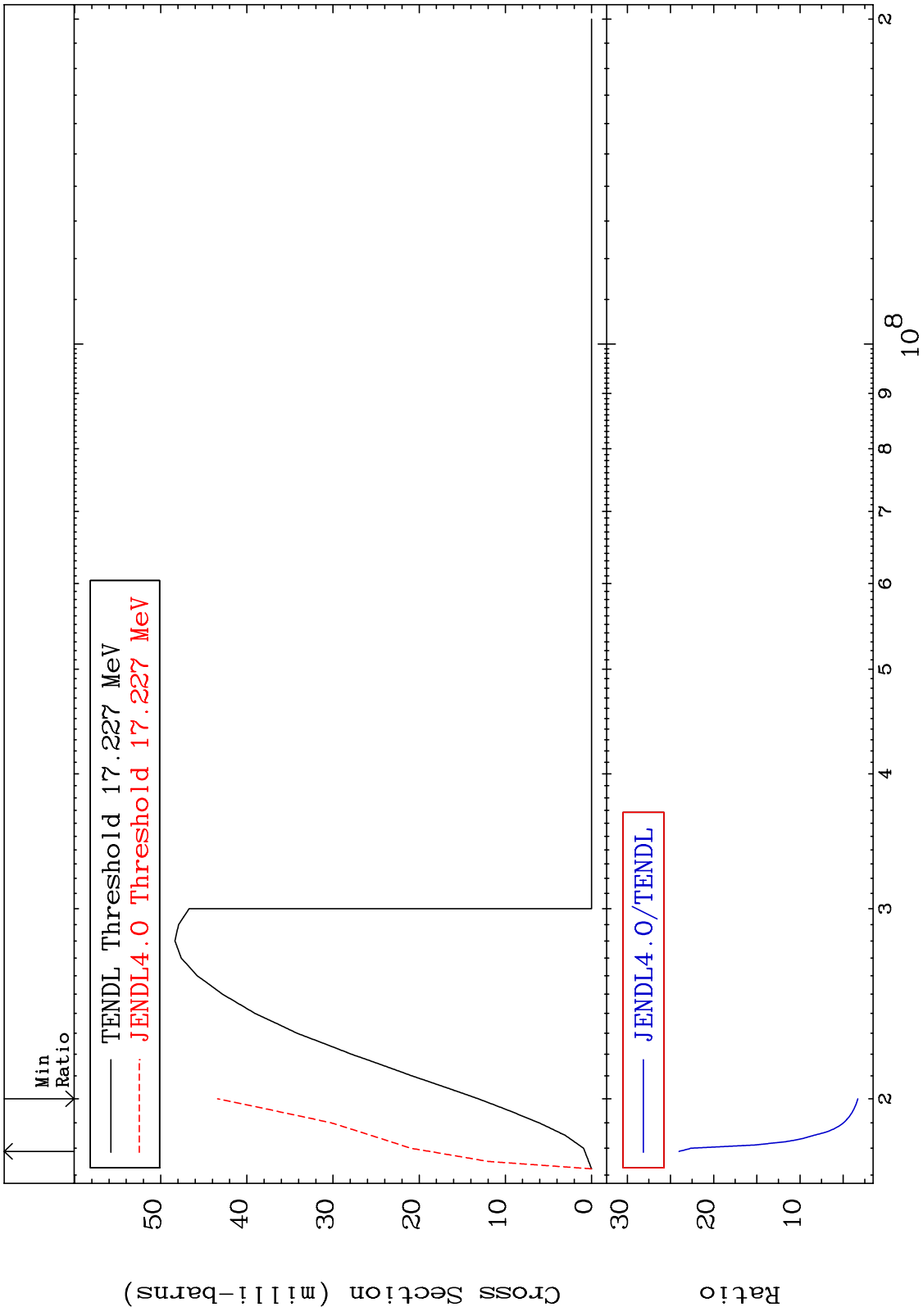


2 12-Mg-24

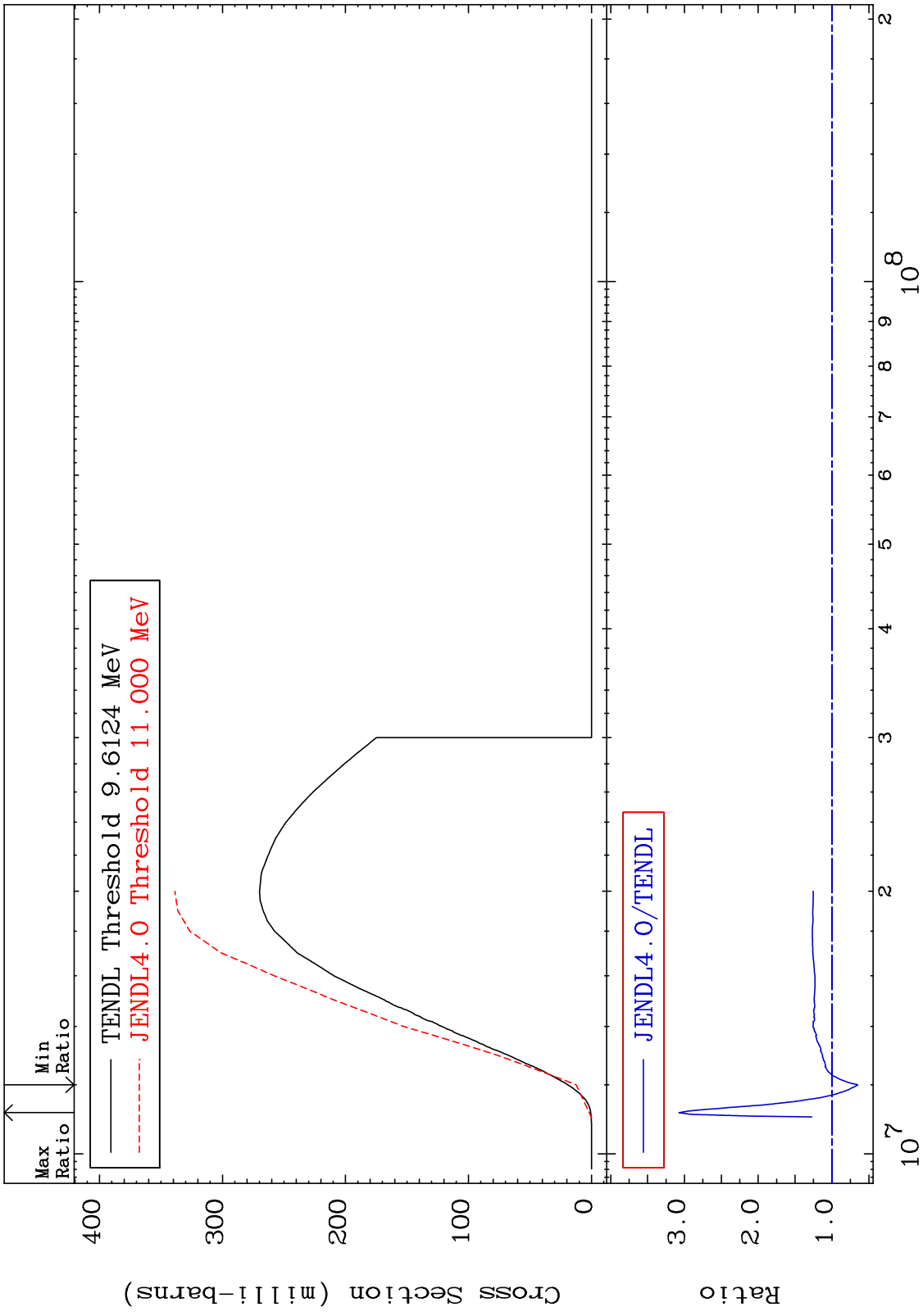
MAT 1225 12-Mg-24  
Inelastic Cross Section -20.08 To 29.73 %



MAT 1225 (n,2n) Cross Section 12-Mg-24 230.2 To 2301. %

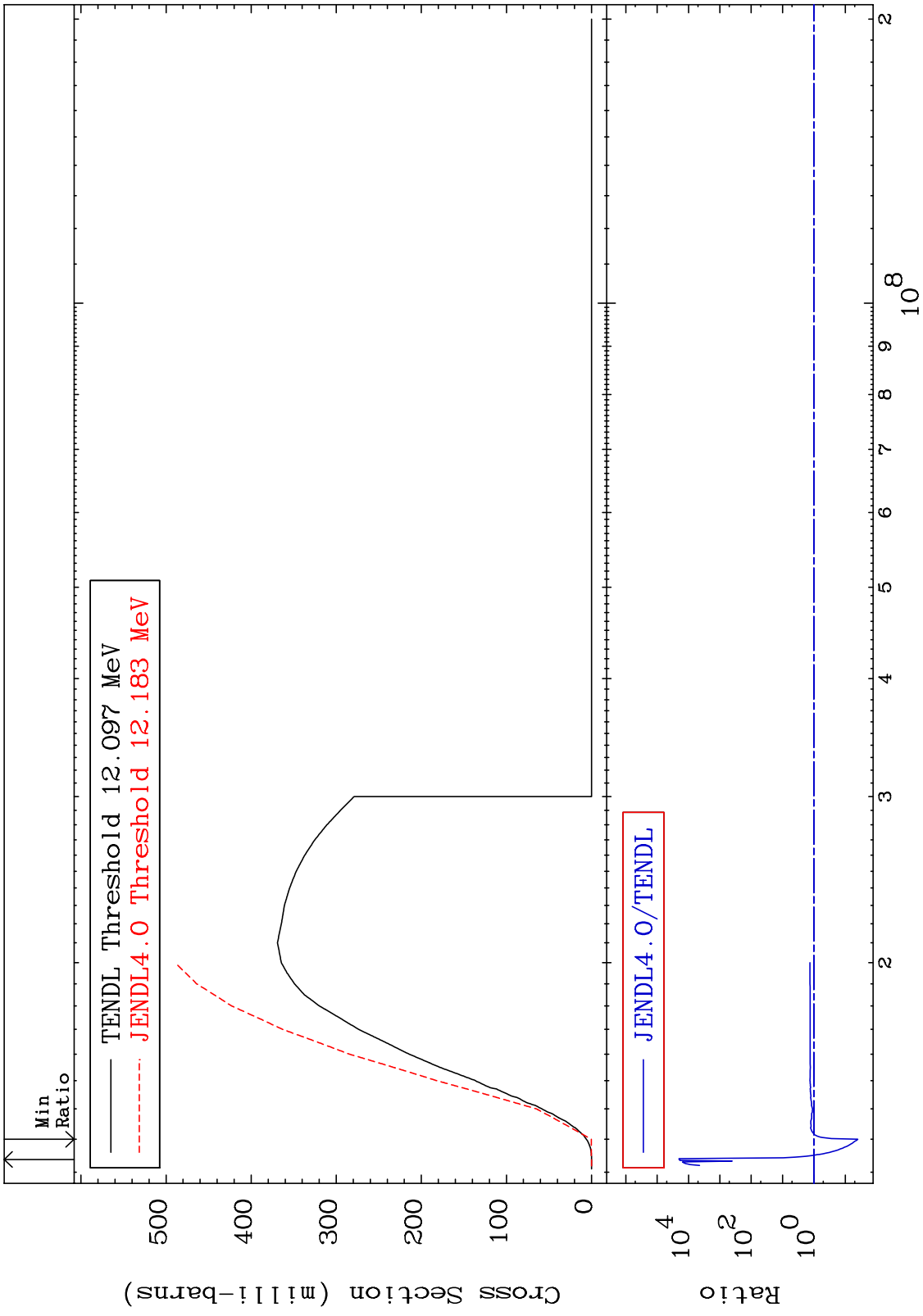


MAT 1225  $(n, n') \alpha$  12-Mg-24  
Cross Section -35.09 To 207.4 %

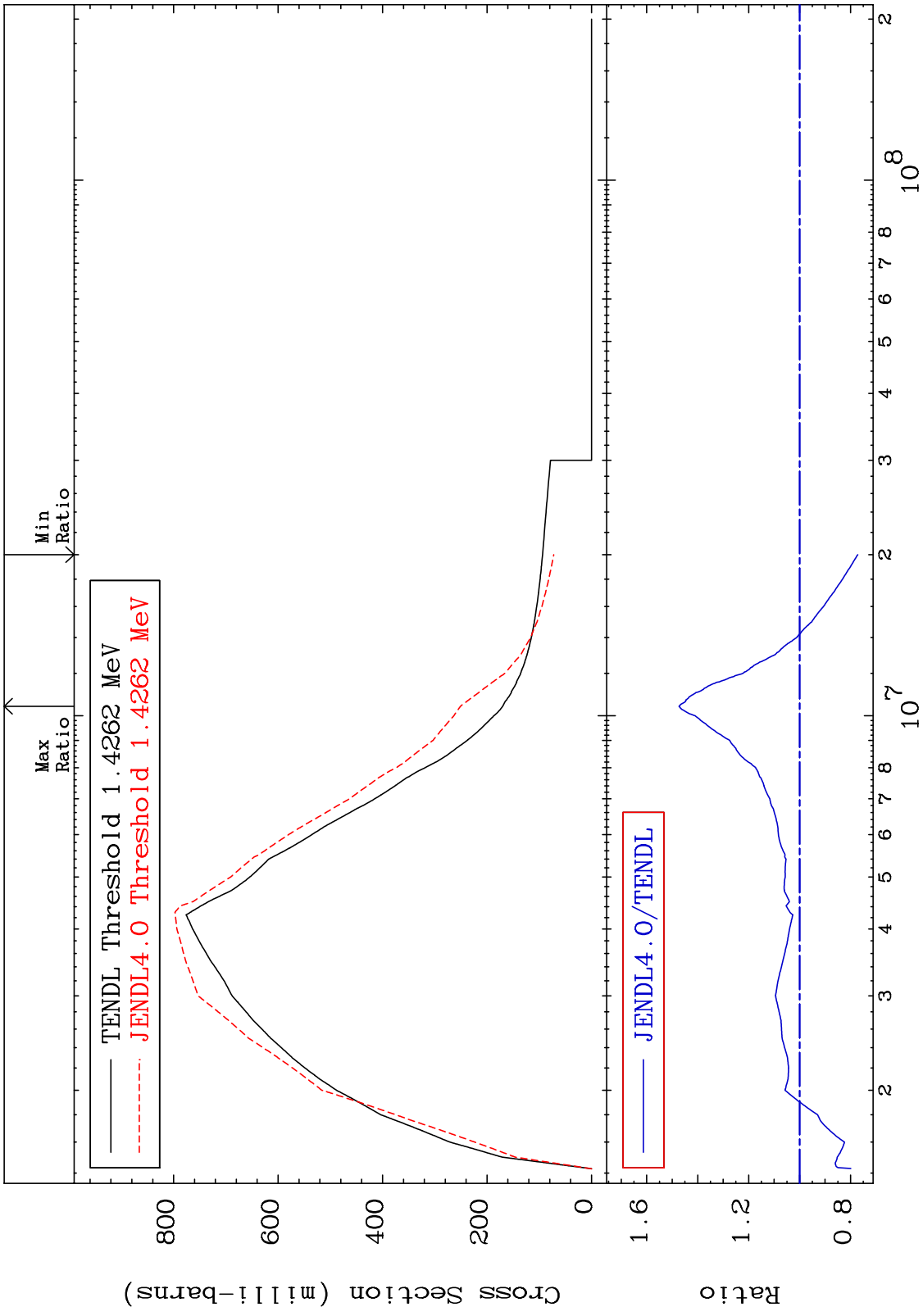


12-Mg-24

MAT 1225 (n,n') p 12-Mg-24  
 Cross Section -96.04 To 9999. %

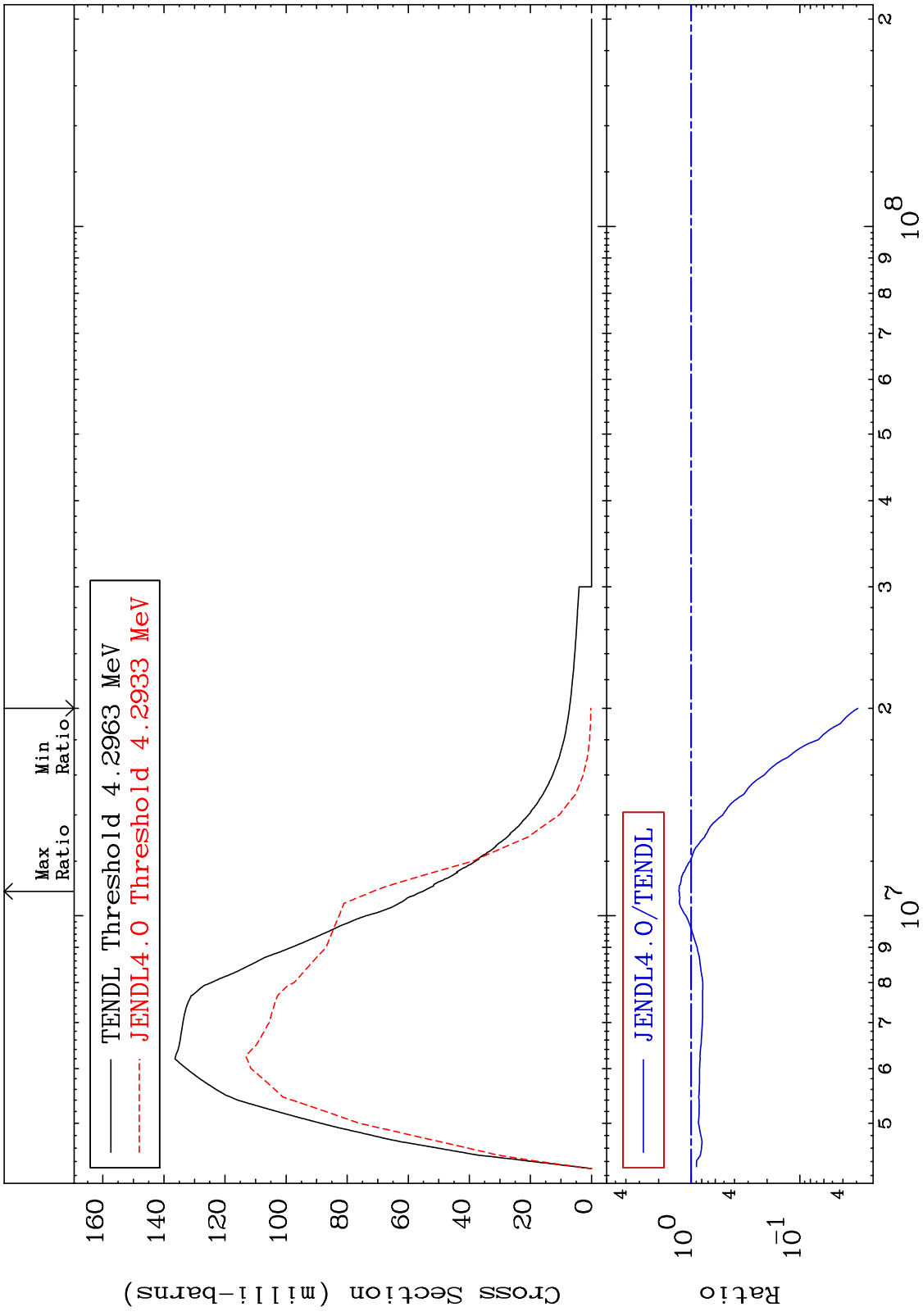


MAT 1225 MT= 51 (n,n') Level Cross Section 12-Mg-24 -22.85 To 47.31 %





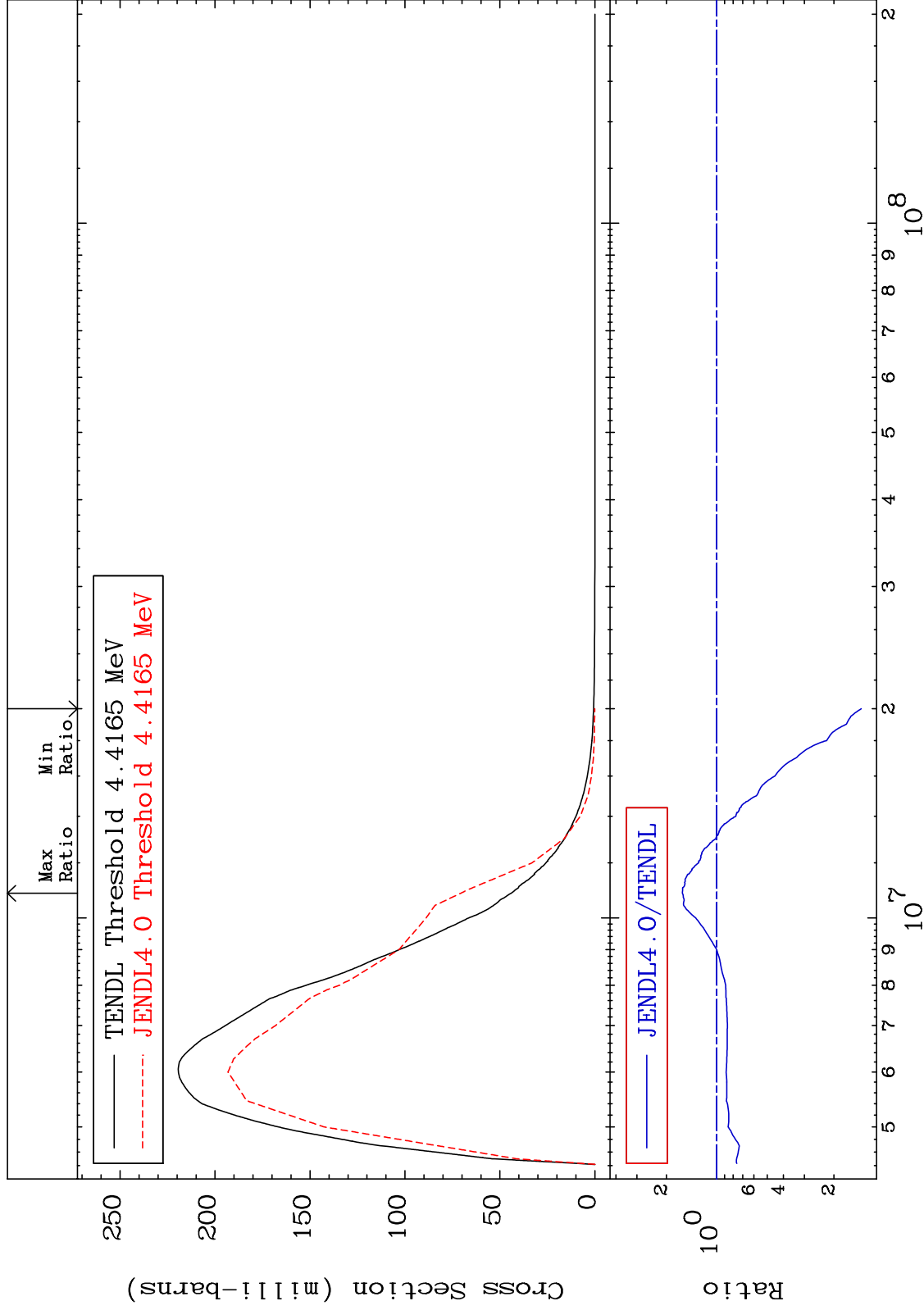
MAT 1225 MT= 52 (n,n') Level Cross Section 12-Mg-24  
 -97.08 To 29.50 %



MAT 1225

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

12-Mg-24  
-86.26 To 60.33 %

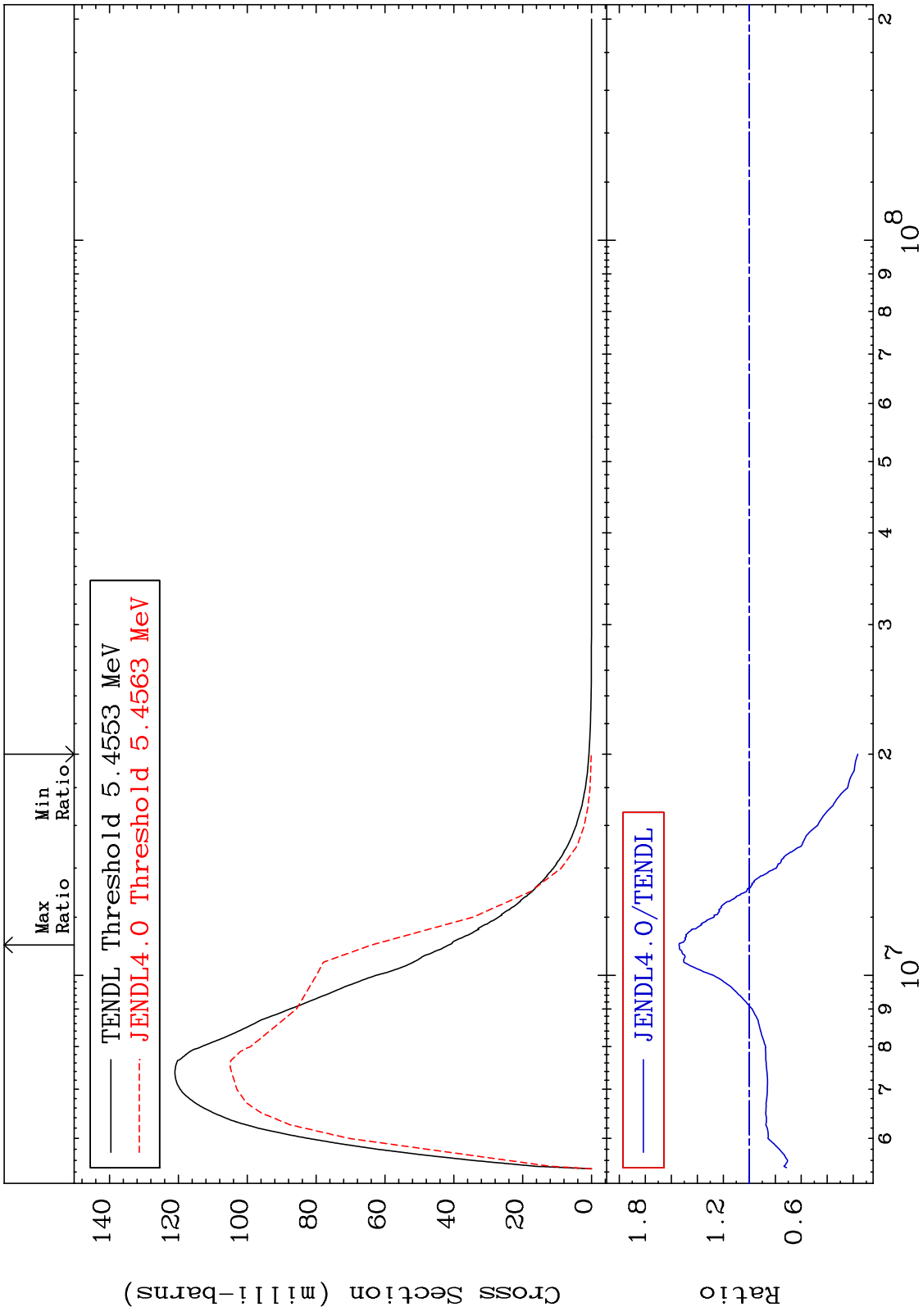


9

Incident Energy (eV)

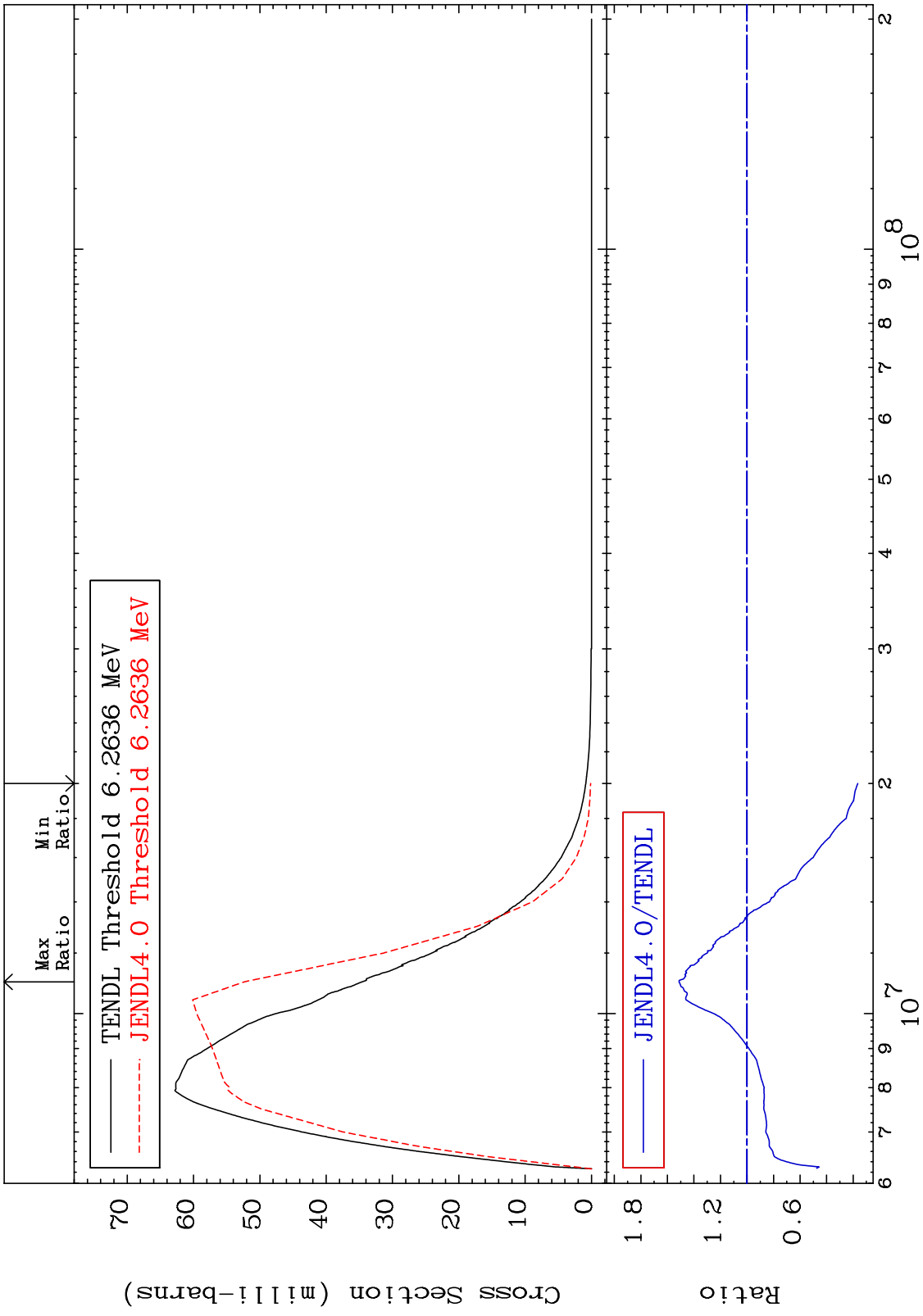
12-Mg-24

MAT 1225 MT= 54 (n,n') Level Cross Section 12-Mg-24 -83.52 To 54.03 %



10 Incident Energy (eV) 12-Mg-24

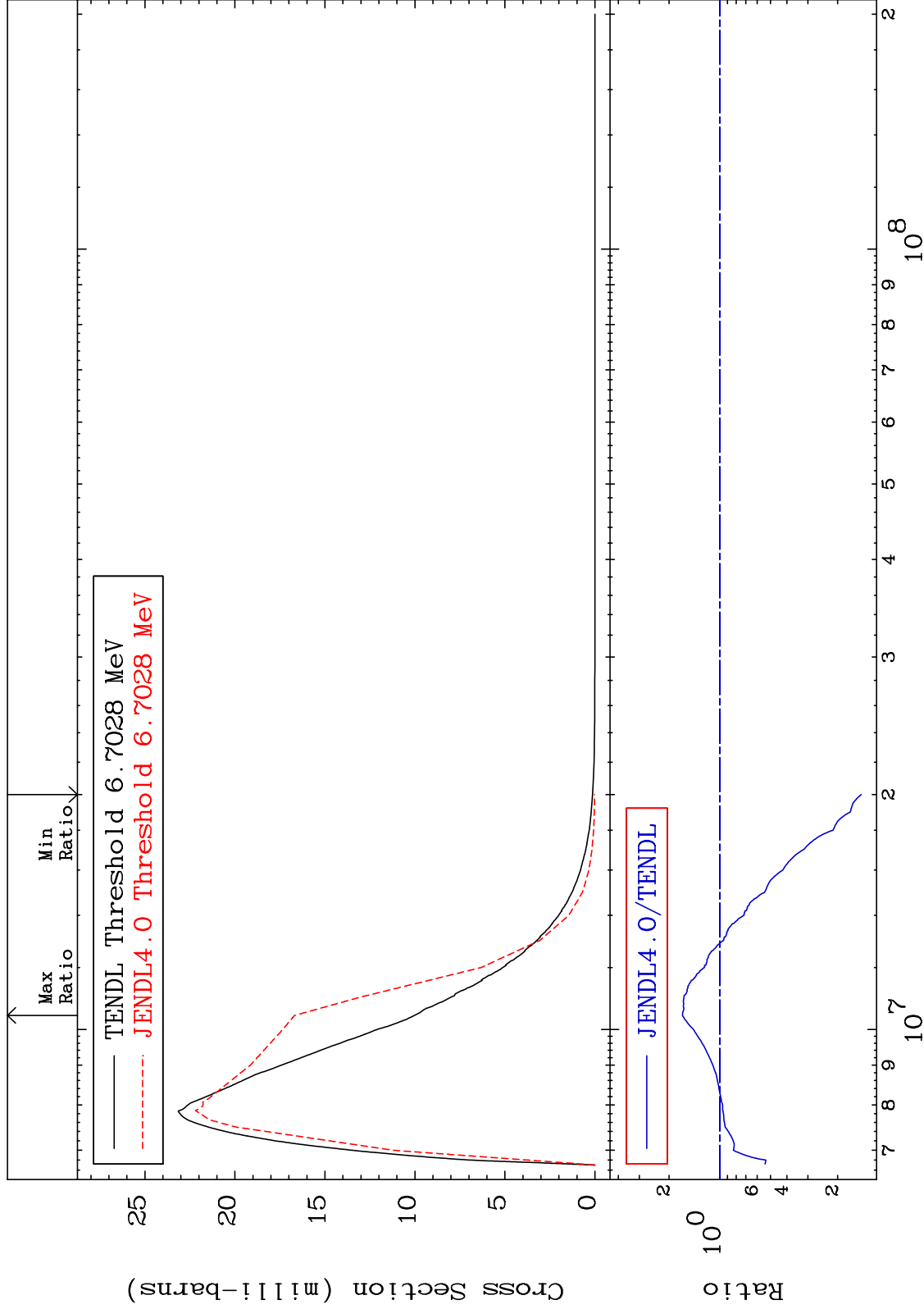
MAT 1225 MT= 55 (n,n') Level Cross Section -83.55 To 51.23 % 12-Mg-24



MAT 1225

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

12-Mg-24  
-85.53 To 66.43 %



12

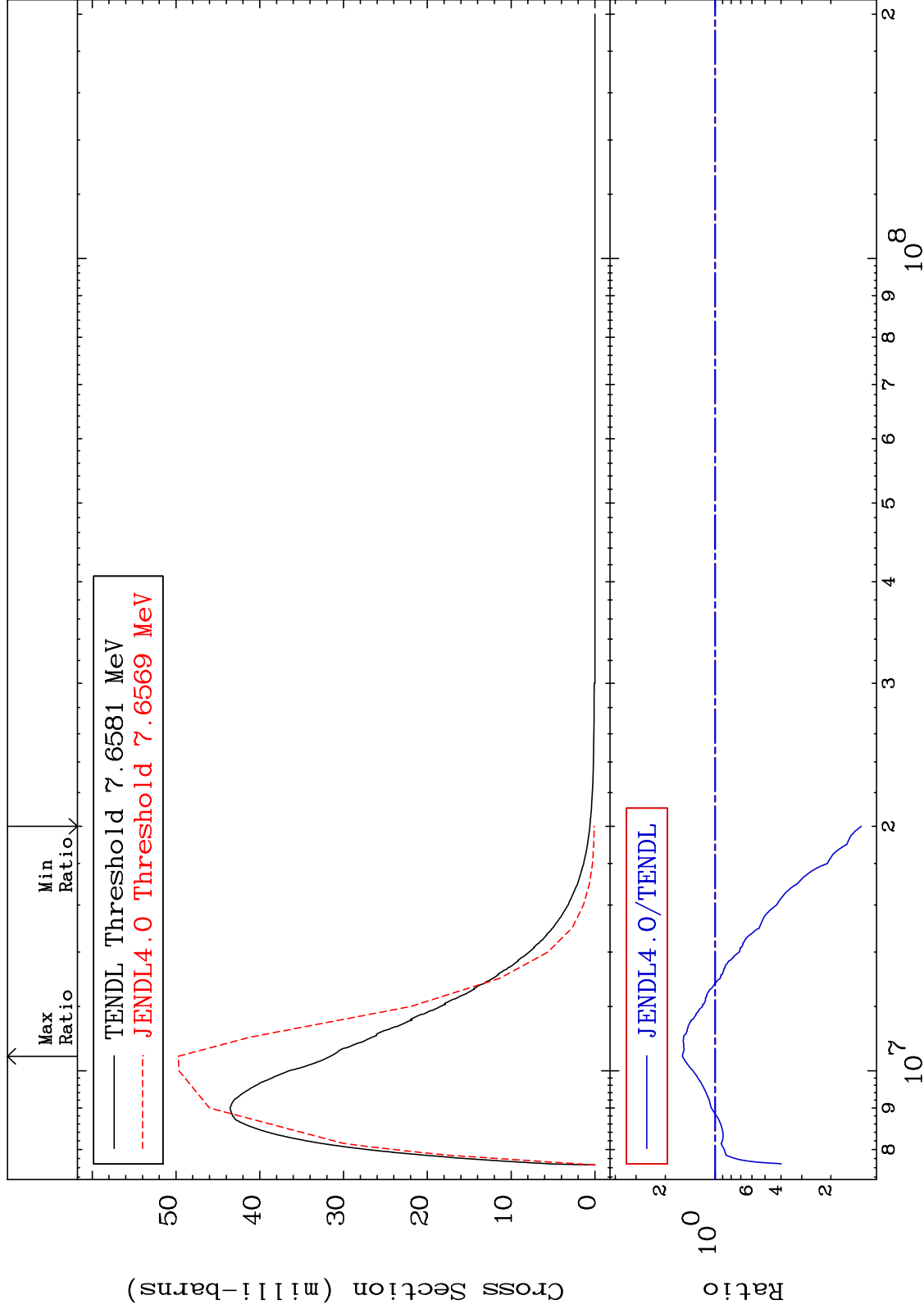
Incident Energy (eV)

12-Mg-24

MAT 1225

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

12-Mg-24  
-86.89 To 57.42 %

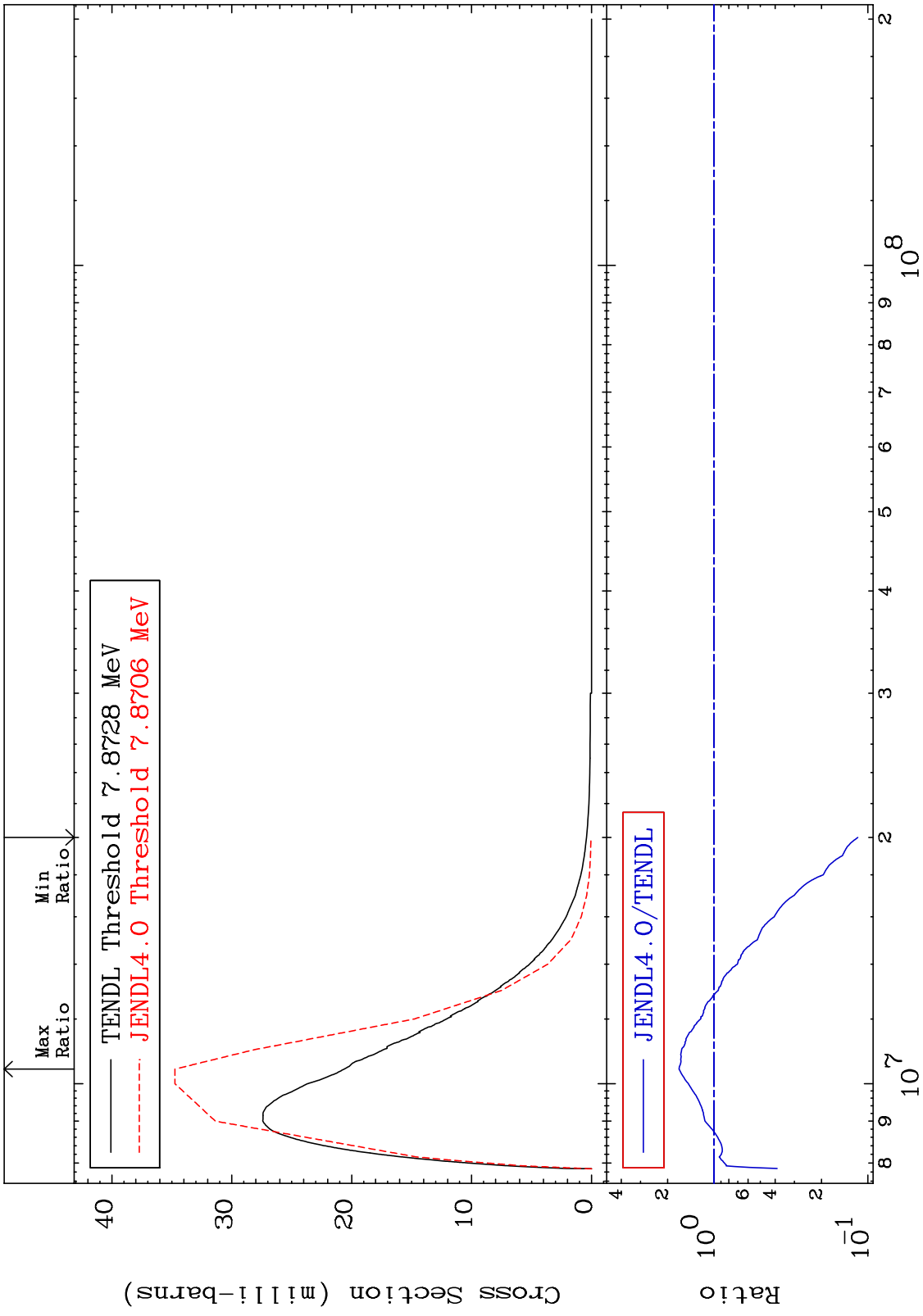


13

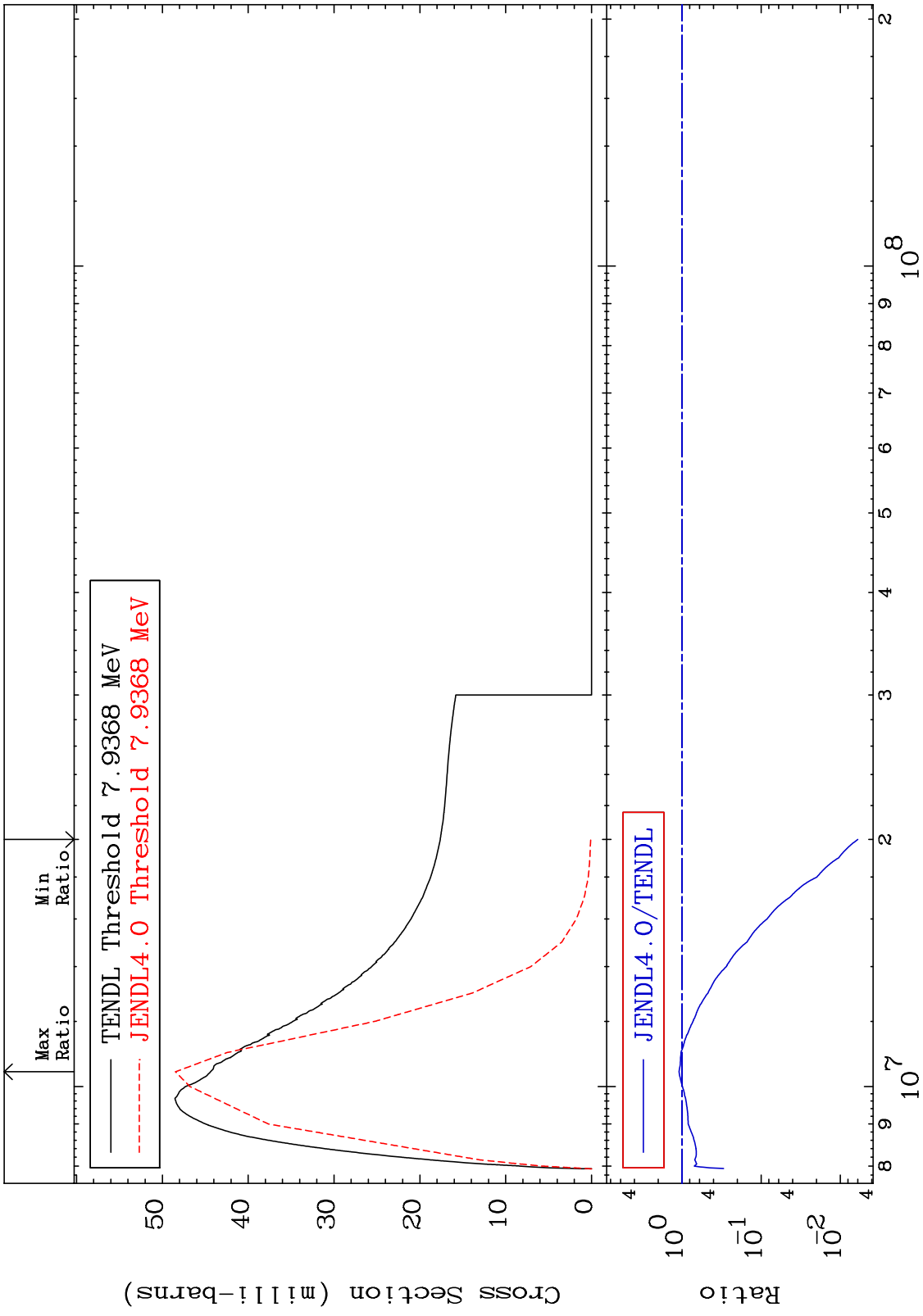
Incident Energy (eV)

12-Mg-24

MAT 1225 MT= 58 (n,n') Level Cross Section 12-Mg-24  
 -88.37 To 68.37 %

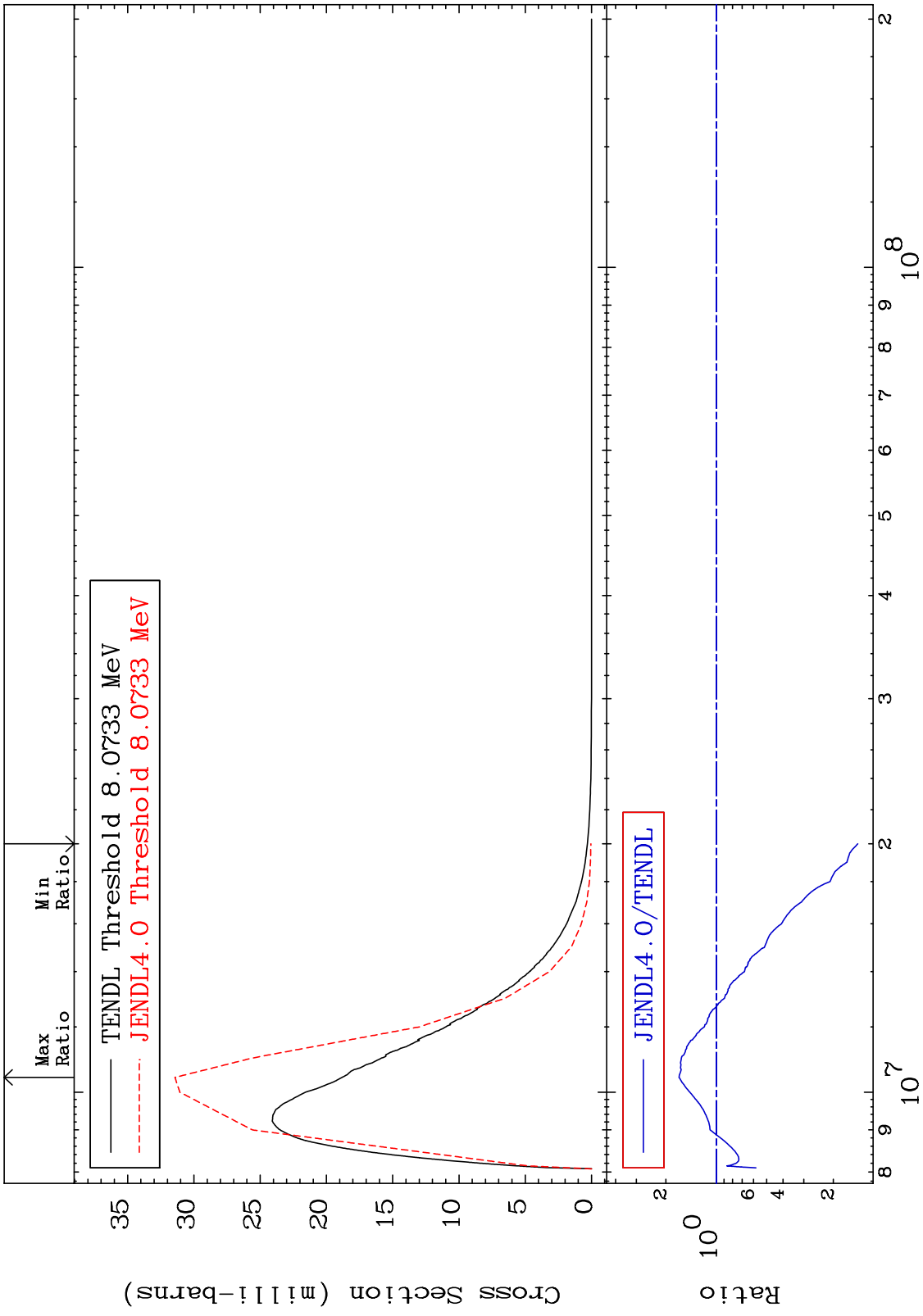


MAT 1225 MT= 59 (n,n') Level Cross Section 12-Mg-24  
 -99.40 To 9.197 %

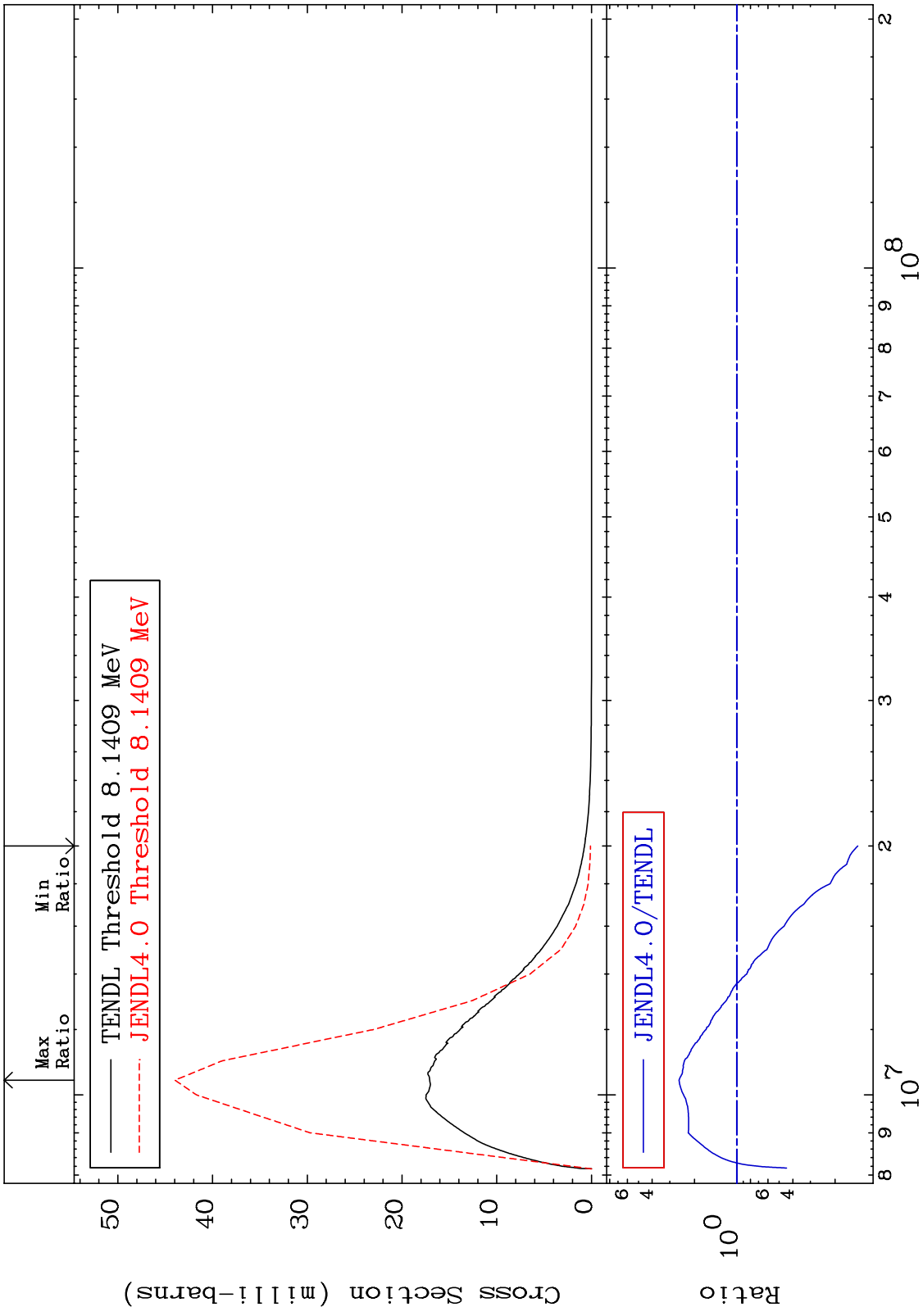




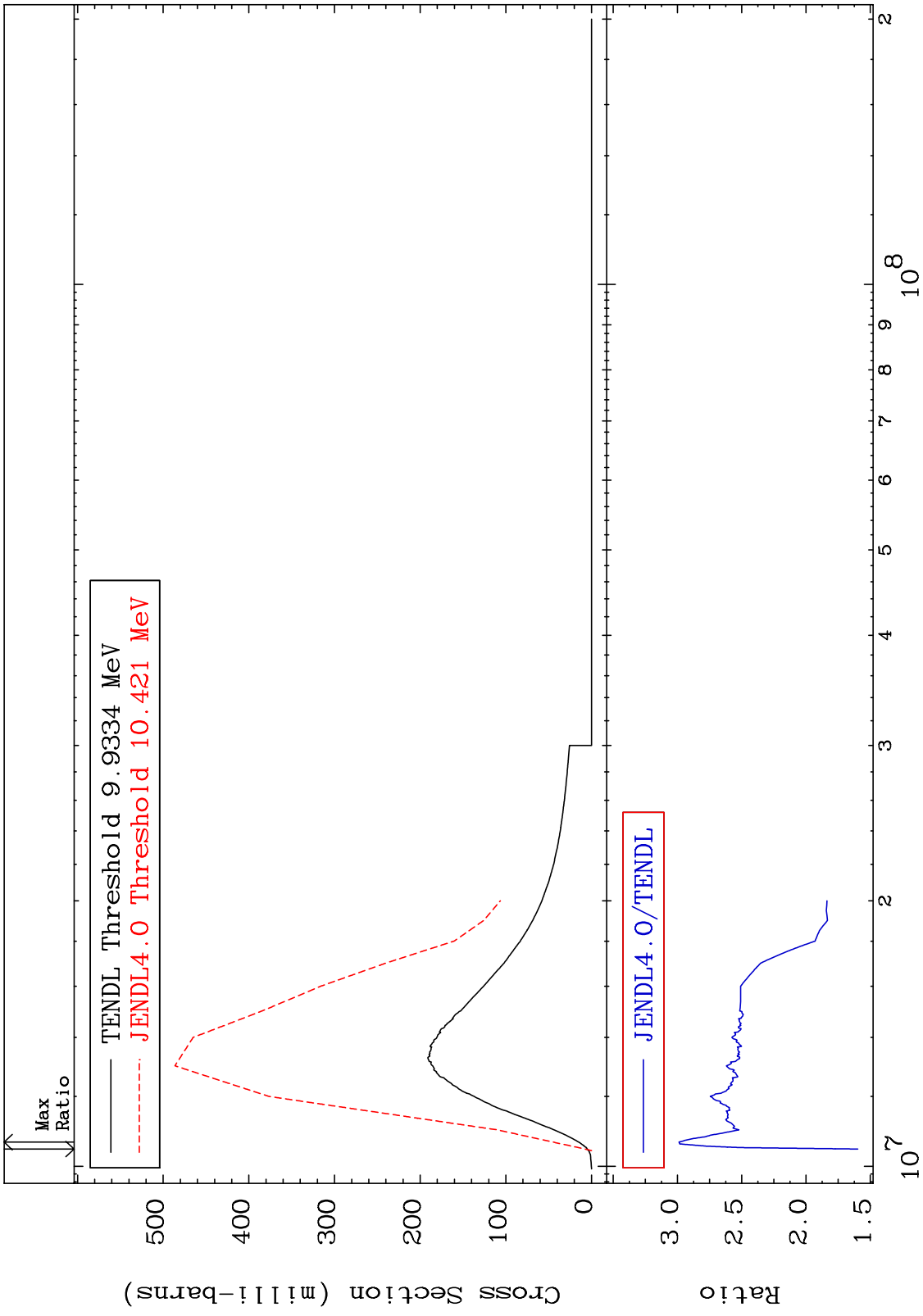
MAT 1225 MT= 60 (n,n') Level Cross Section 12-Mg-24 -85.72 To 66.98 %



MAT 1225 MT= 61 (n,n') Level Cross Section 12-Mg-24 -86.22 To 157.4 %



MAT 1225 (n,n') Continuum Cross Section 12-Mg-24 59.70 To 198.8 %



12-Mg-24

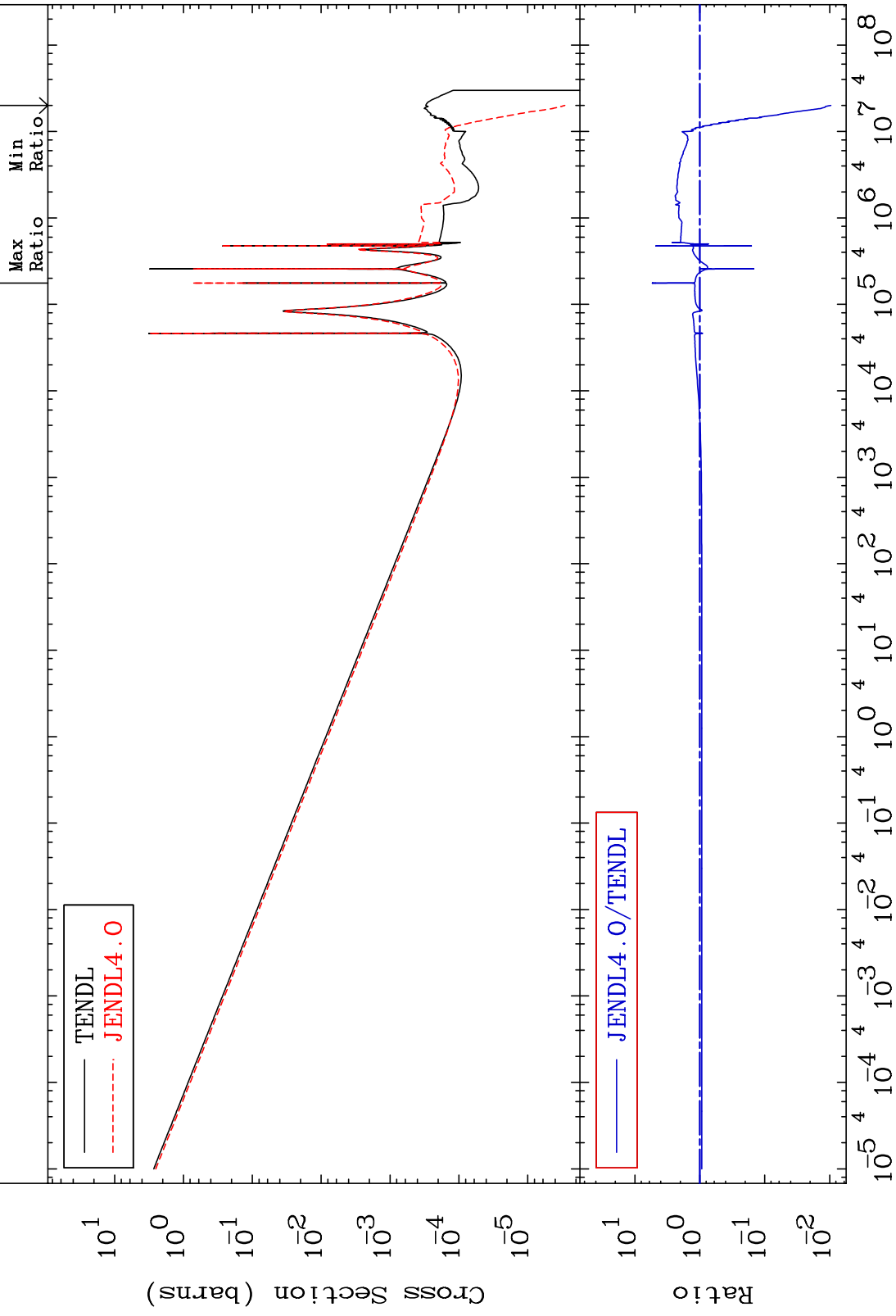
MAT 1225

(n,  $\gamma$ )

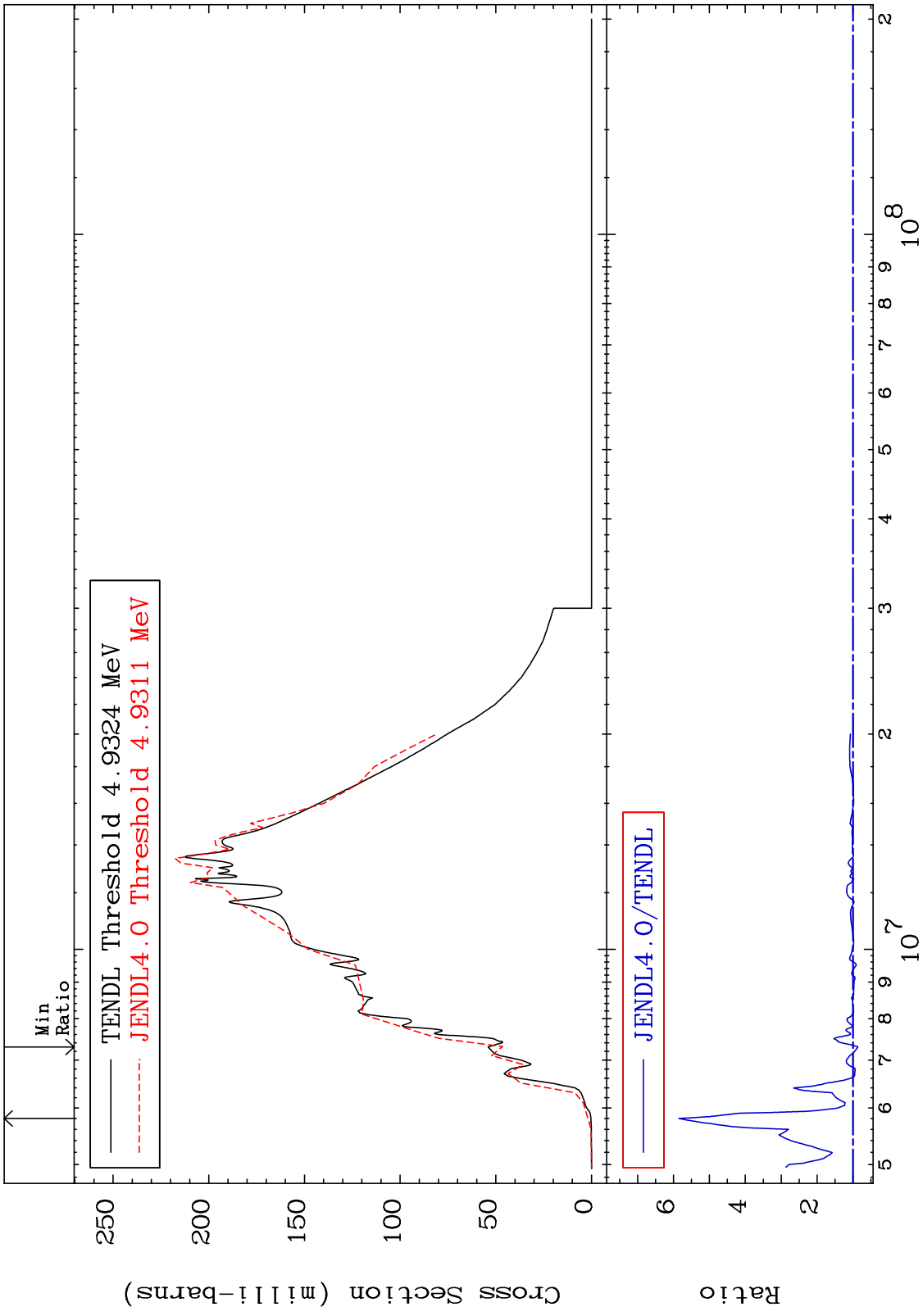
12-Mg-24

Cross Section

-99.04 To 440.4 %

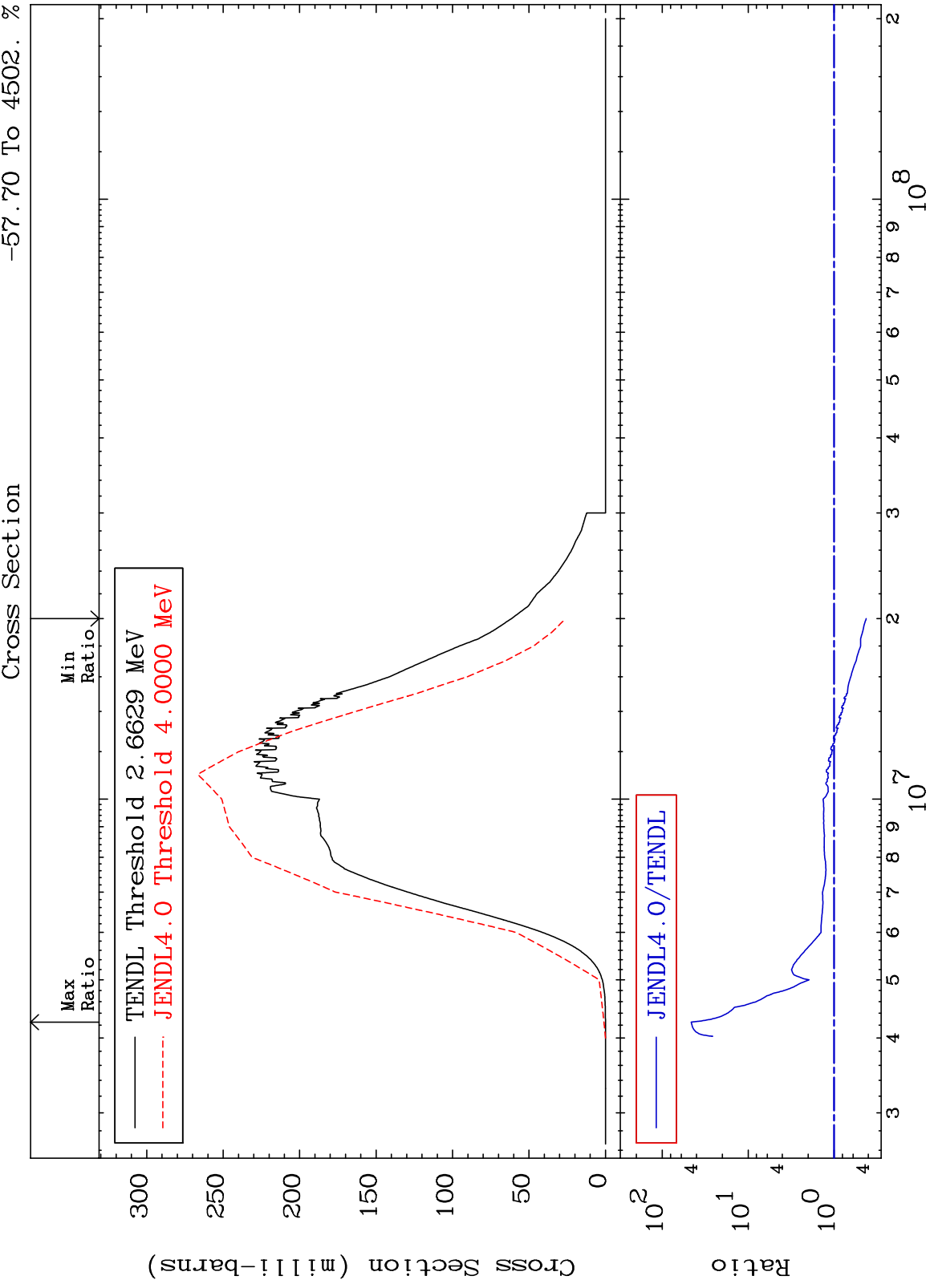


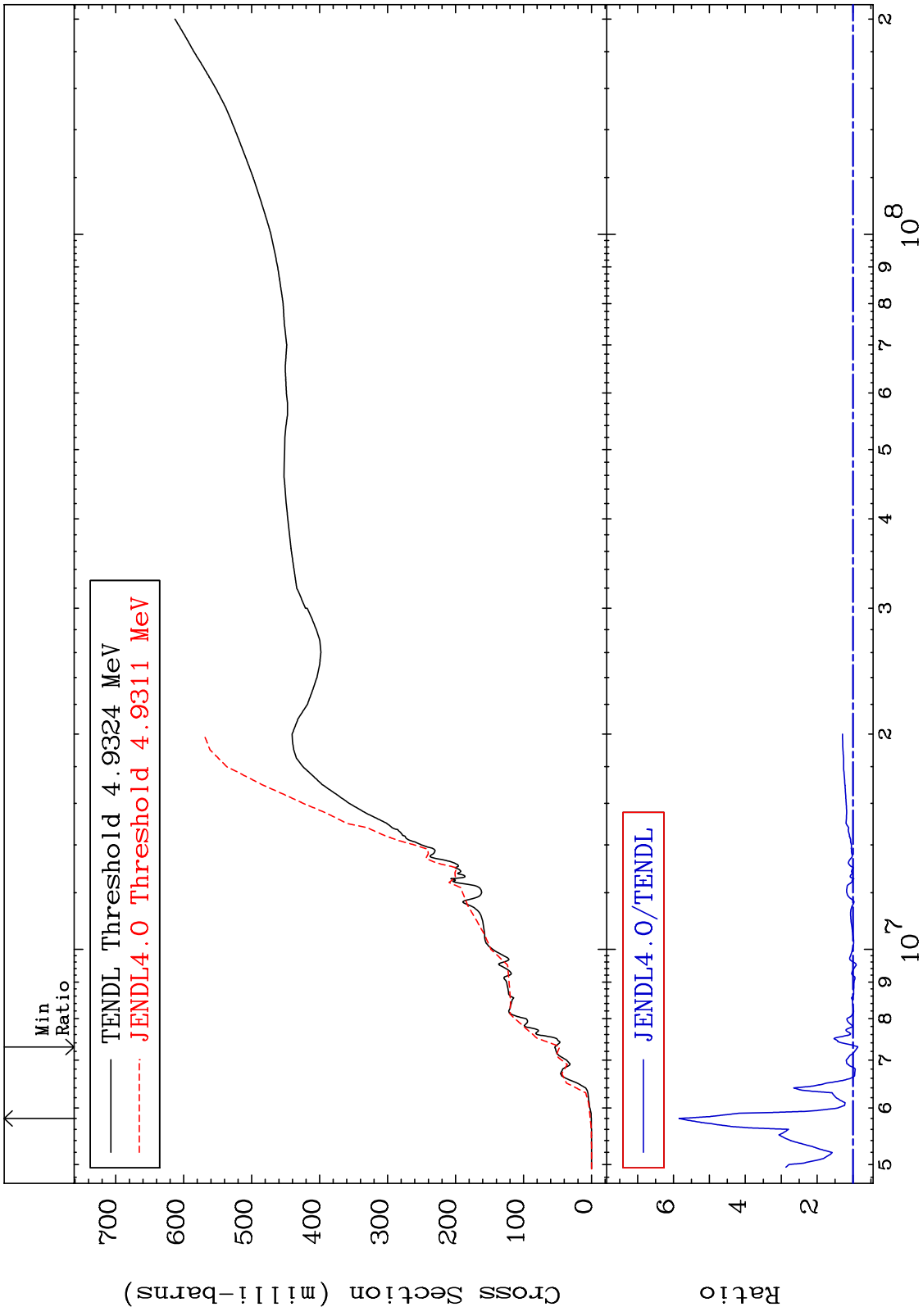
MAT 1225 (n,p) Cross Section 12-Mg-24 -13.48 To 484.6 %



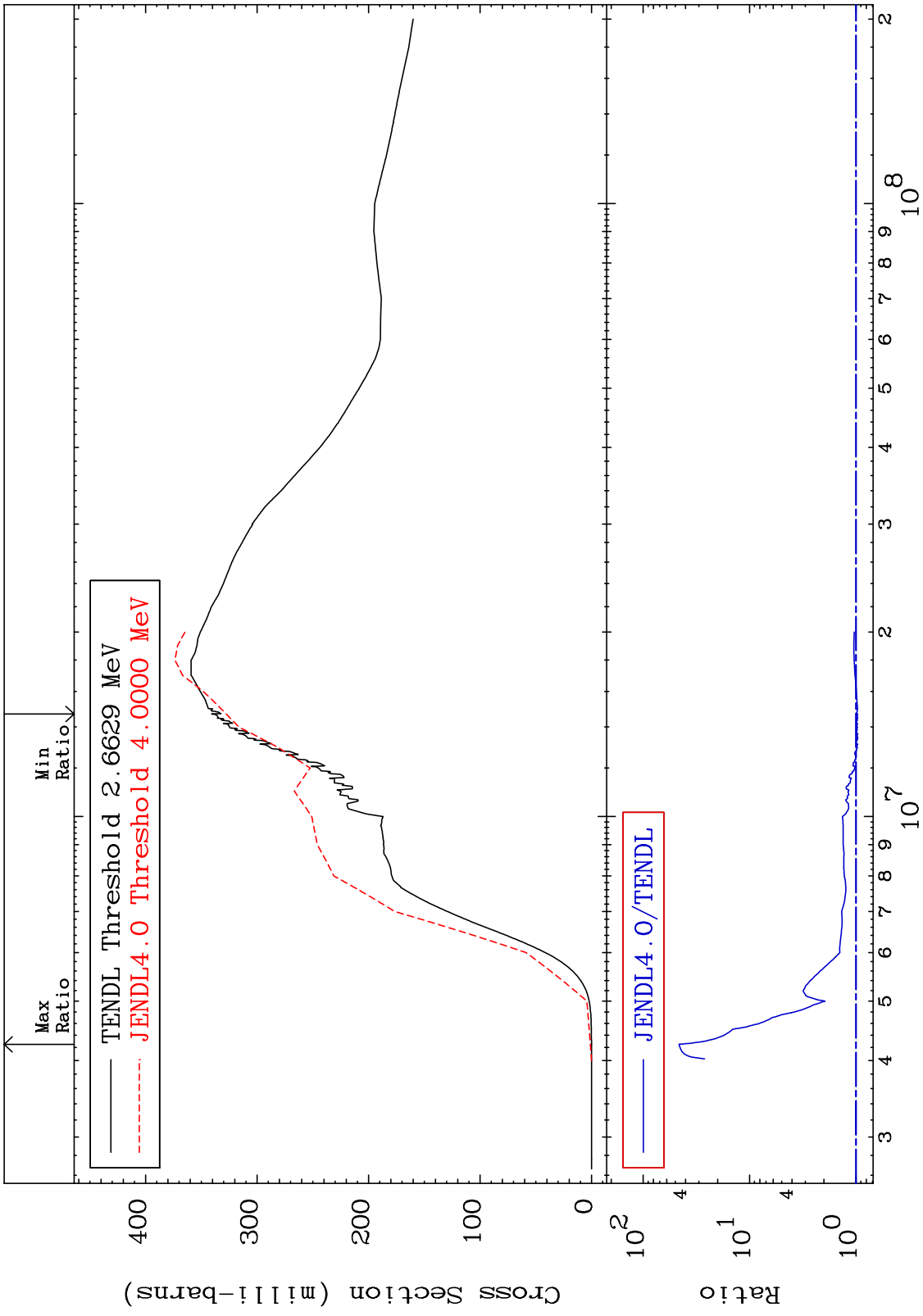
20 12-Mg-24

MAT 1225  $^{12}\text{Mg-24}$   $(n, \alpha)$  -57.70 To 4502. %



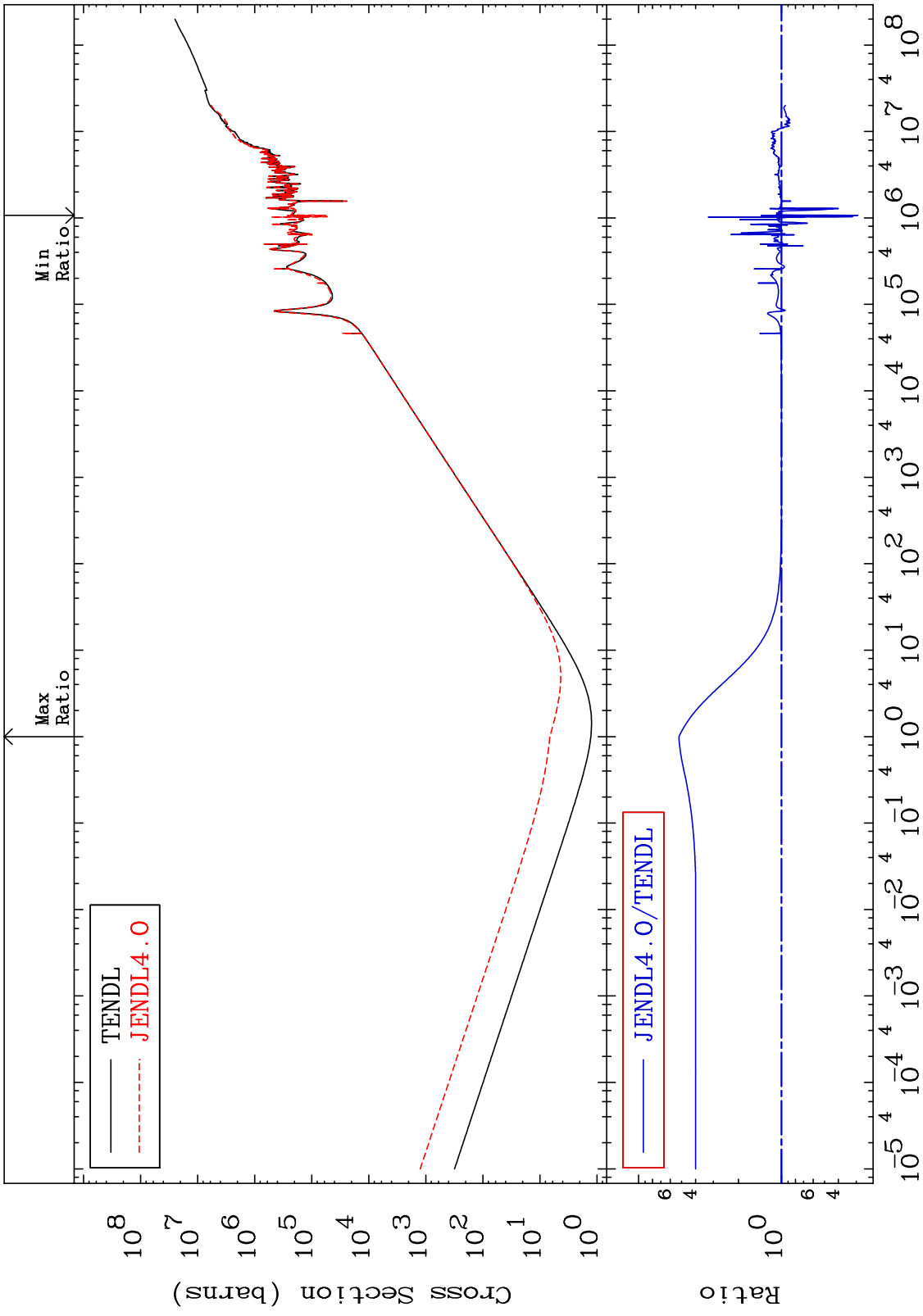


MAT 1225 He-4 Production Cross Section -3.872 To 4502. % 12-Mg-24



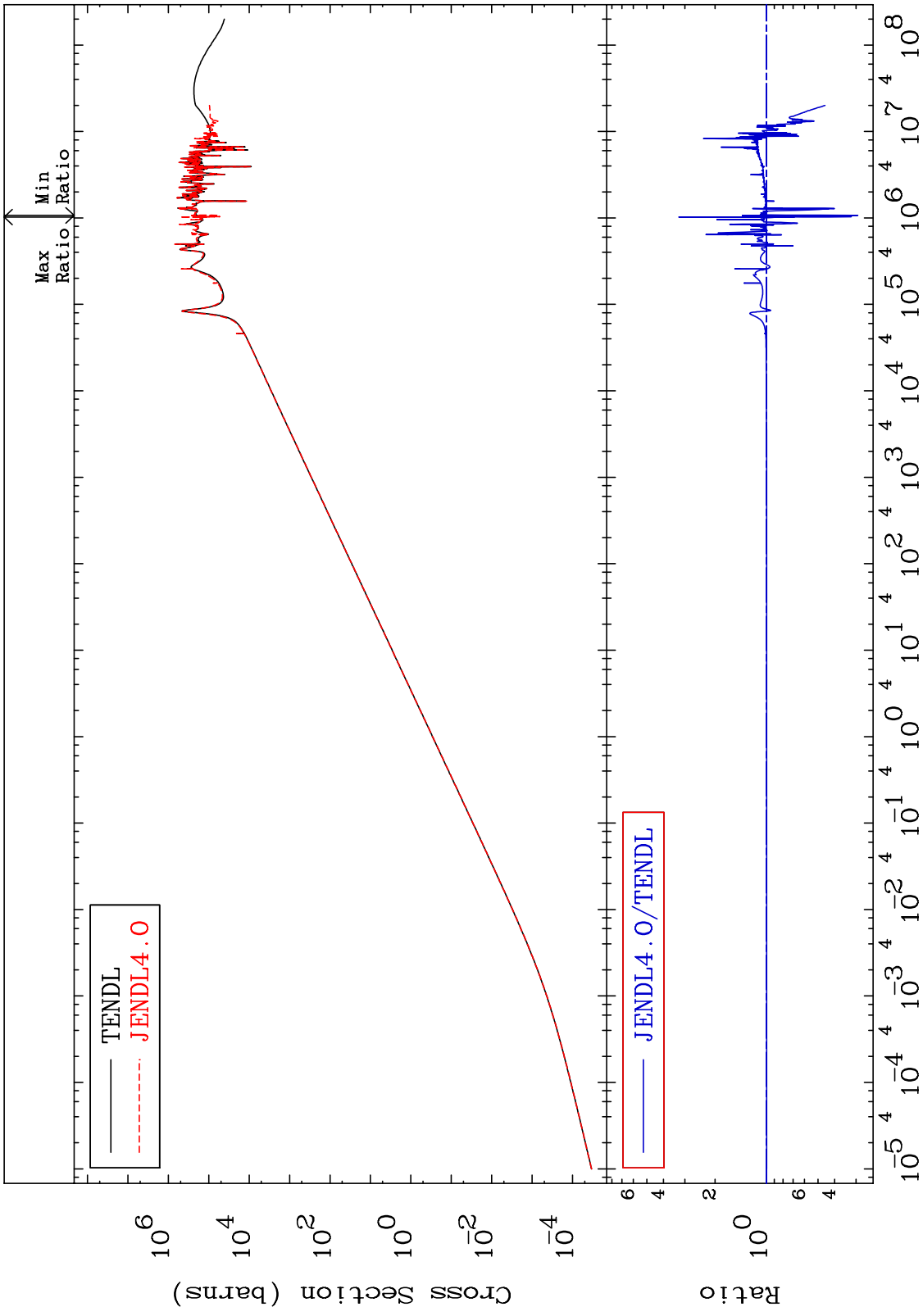


MAT 1225 12-Mg-24  
 Kerma total (eV-barns)  
 Cross Section -70.75 To 421.3 %

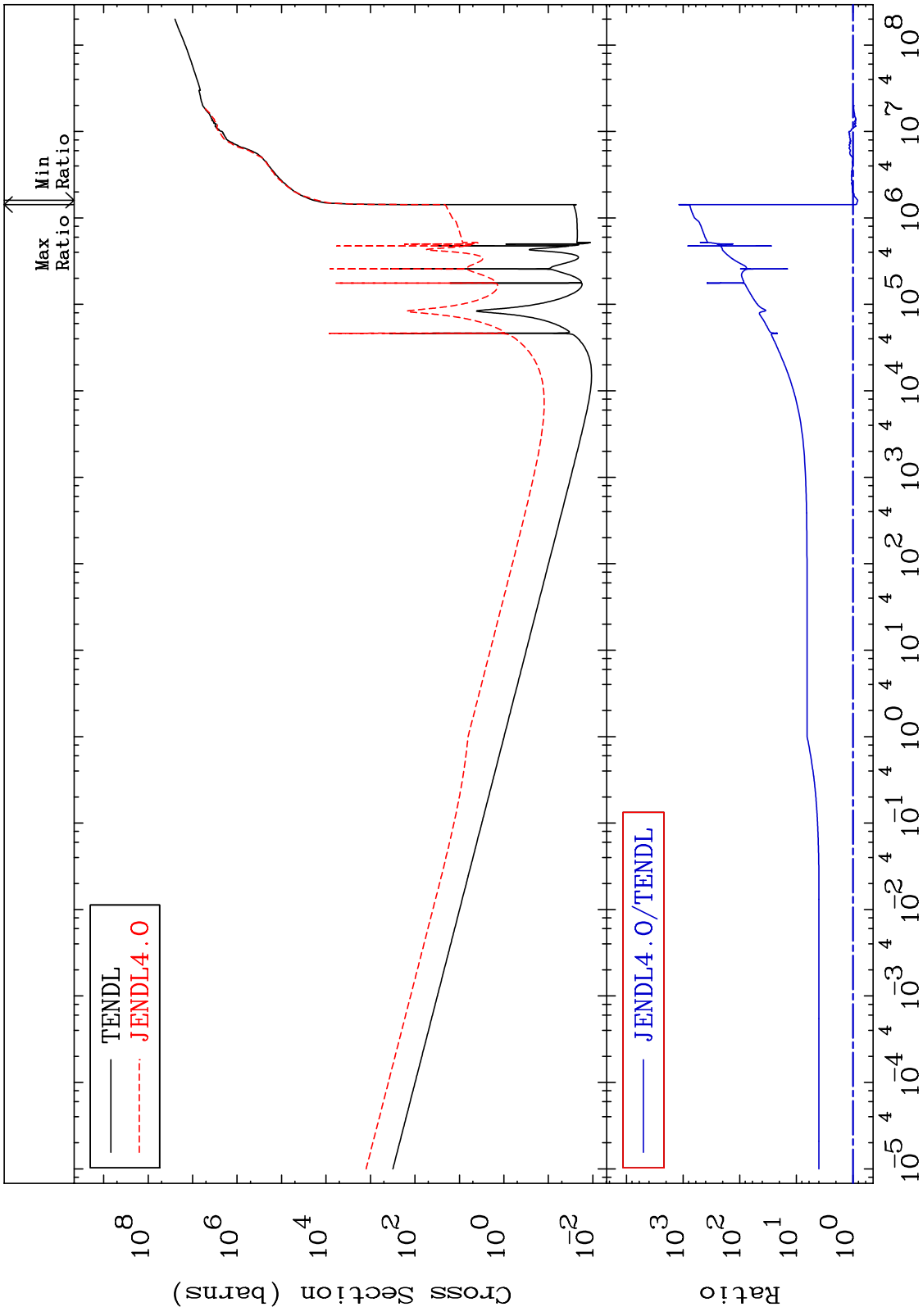


24 12-Mg-24

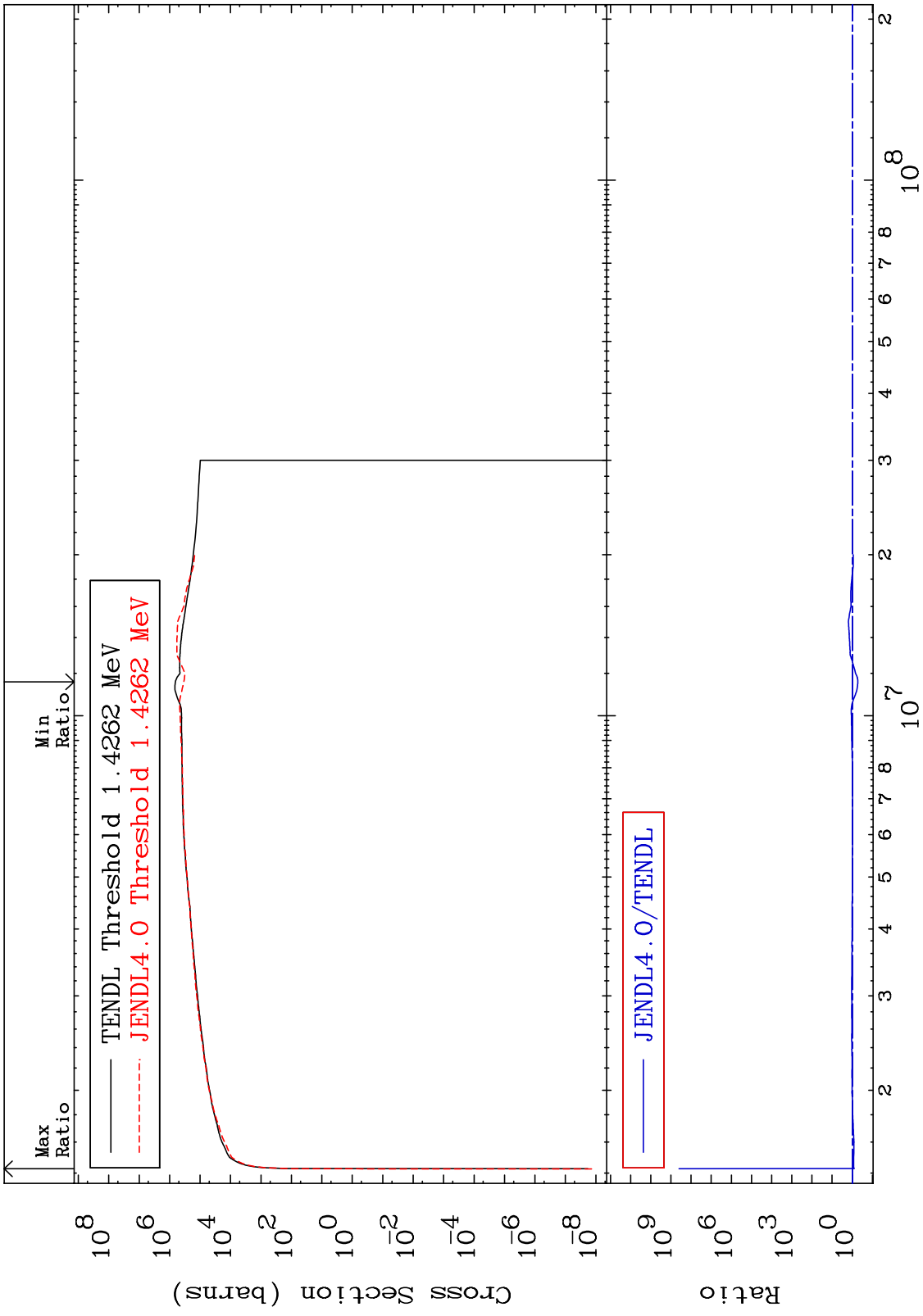
MAT 1225      Kerma elastic Cross Section      12-Mg-24  
-70.75 To 224.3 %



MAT 1225 Kerma non-elastic (all but mt2) Cross Section 12-Mg-24  
 -17.85 To 9999. %



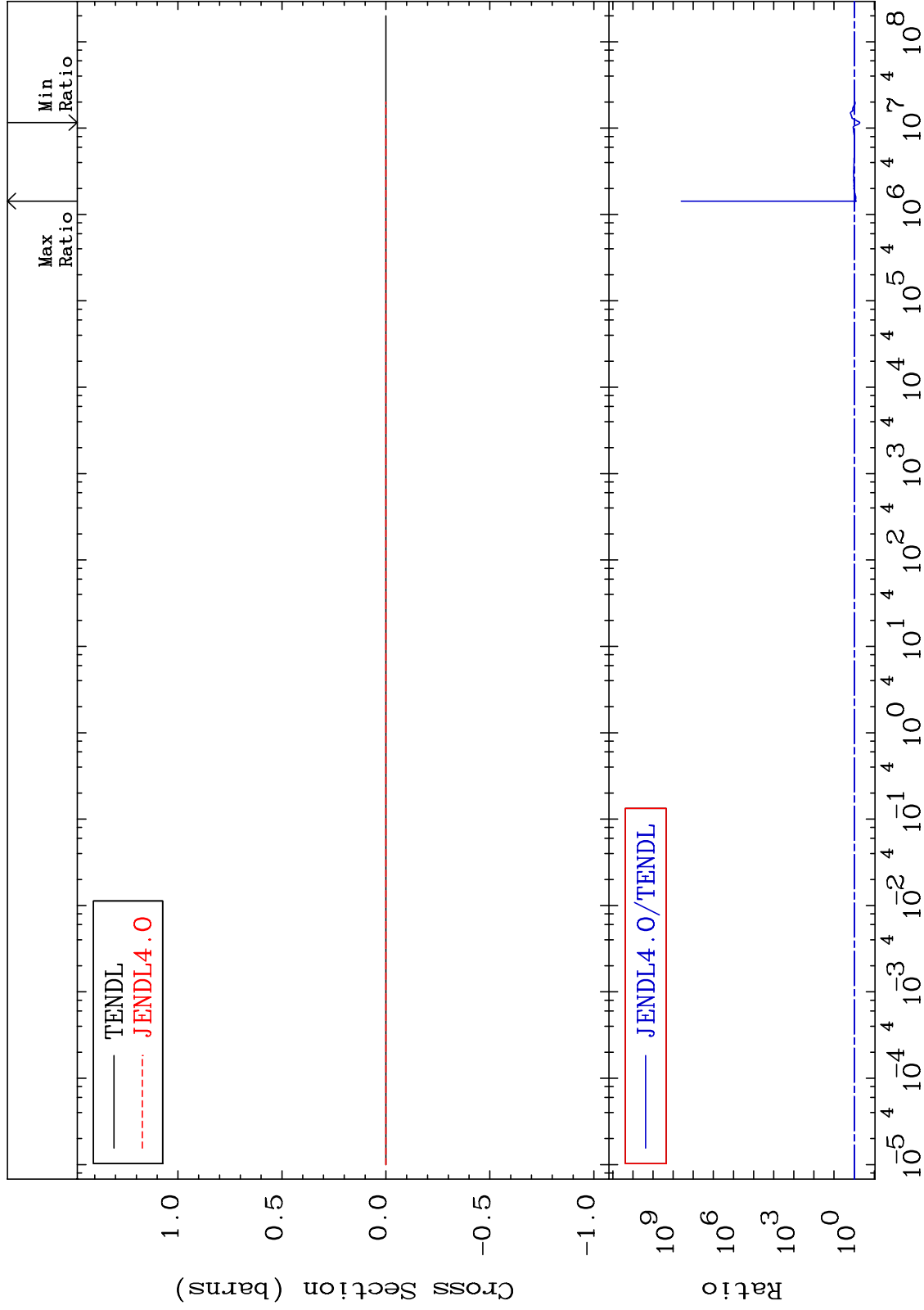
MAT 1225 Kerma inelastic (mt51-91) 12-Mg-24  
Cross Section -47.23 To 9999. %



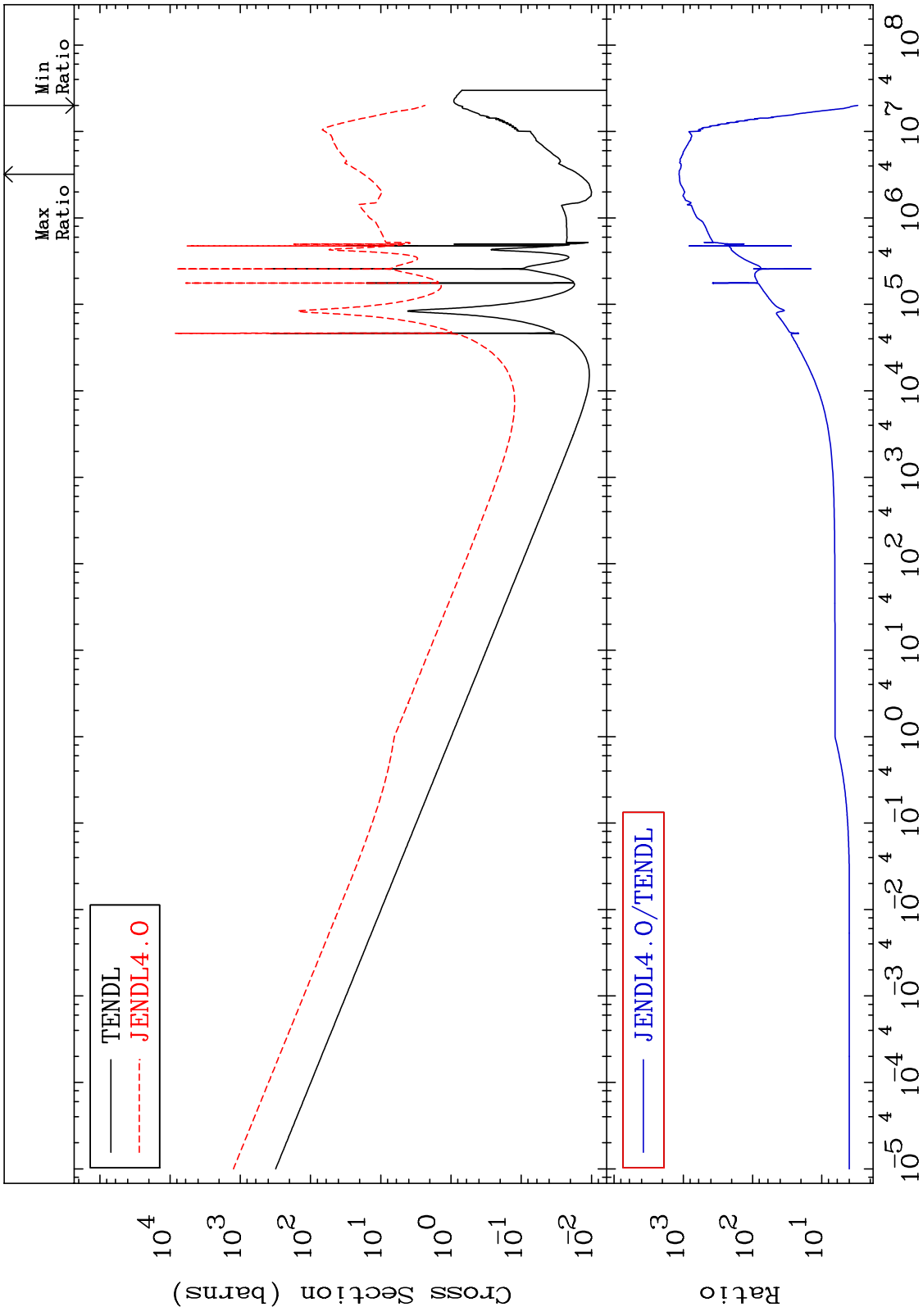
MAT 1225

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

12-Mg-24  
-47.23 To 9999. %



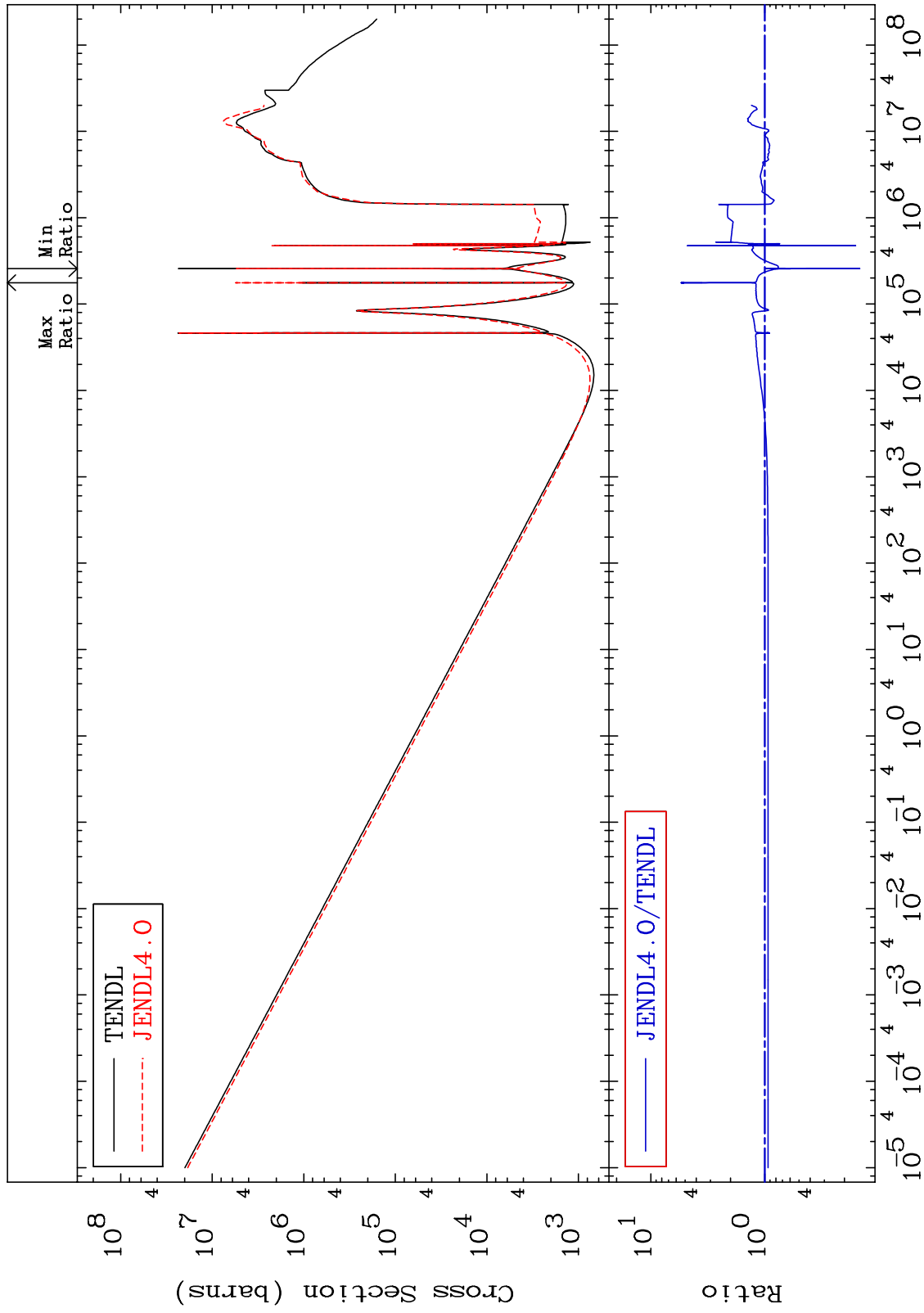
MAT 1225 Kerma capture (mt102) 12-Mg-24  
 Cross Section 201.7 To 9999. %



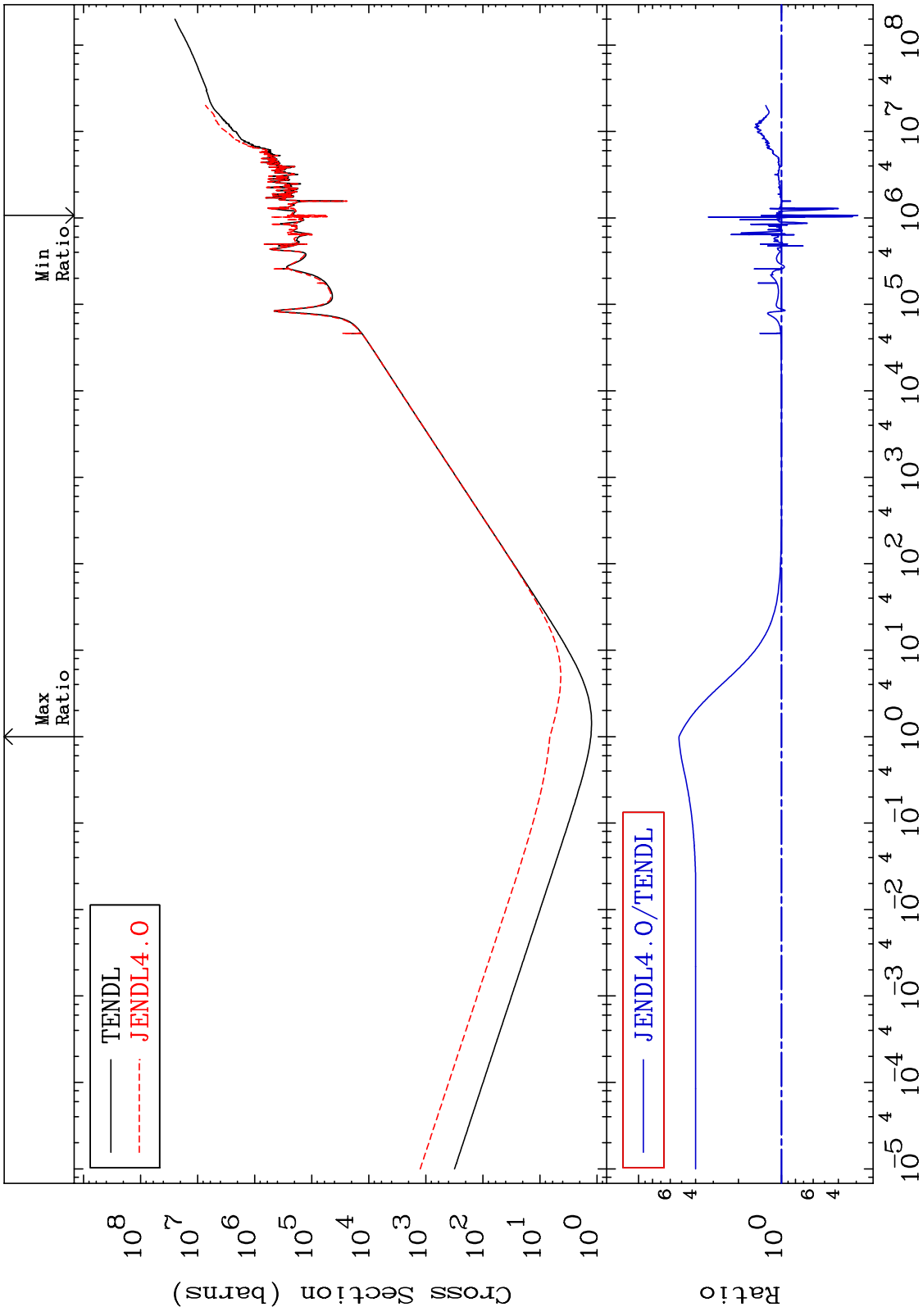
MAT 1225

Total photon (eV-barns)  
Cross Section

12-Mg-24  
-85.33 To 440.5 %

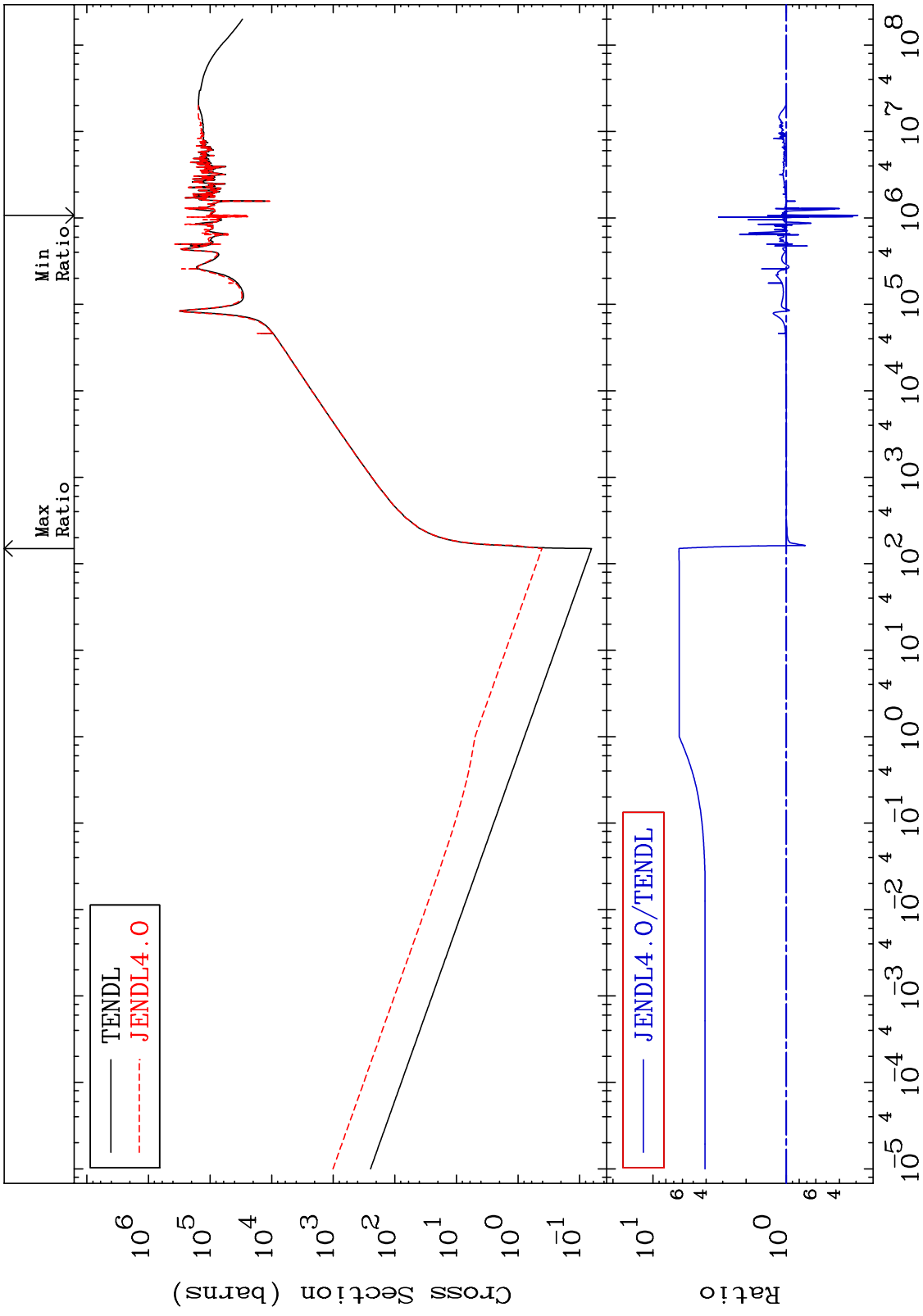


MAT 1225 Total kinematic kerma (high limit) 12-Mg-24  
 Cross Section -70.75 To 421.3 %





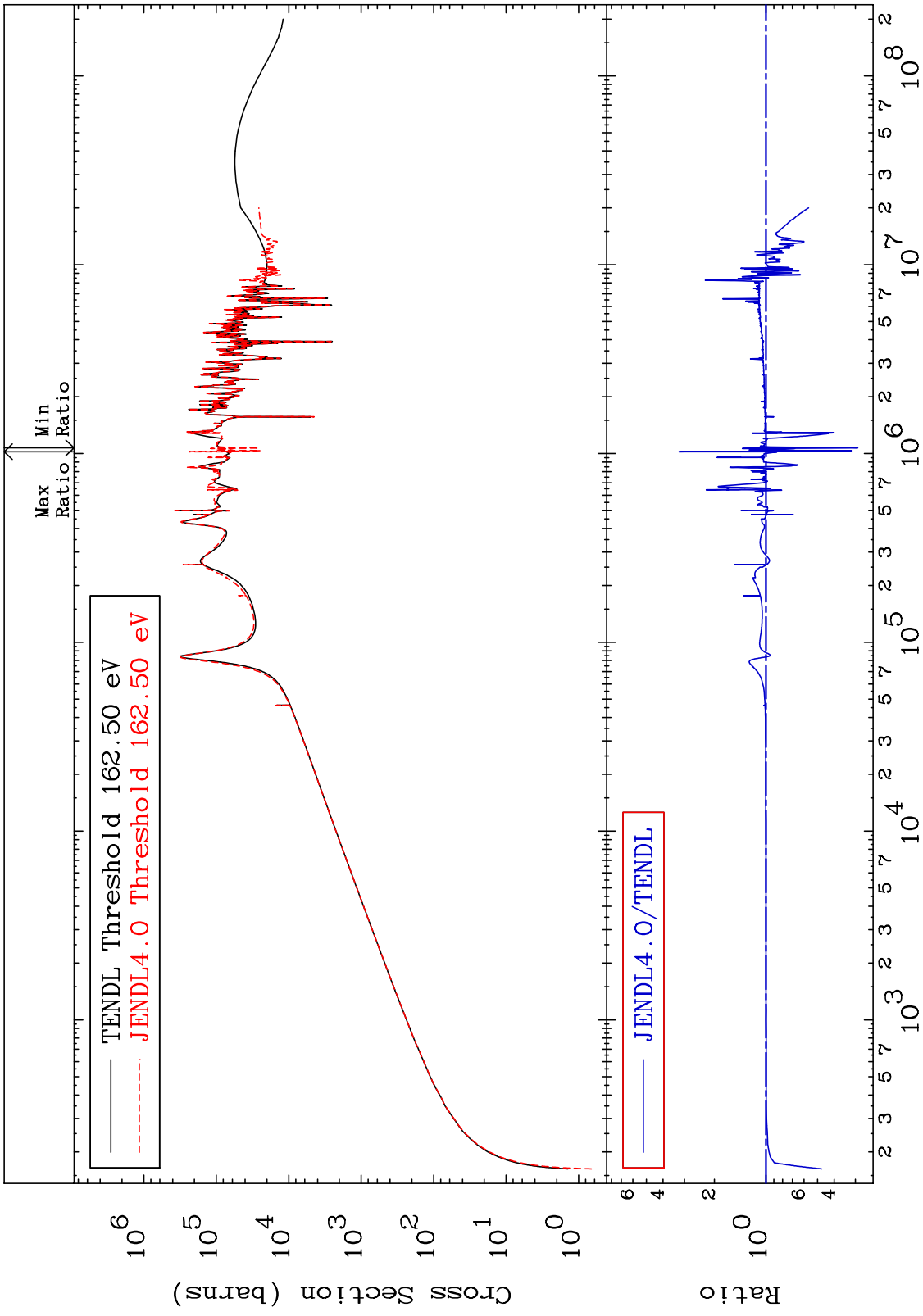
MAT 1225      Dpa total (eV-barns)      12-Mg-24  
 Cross Section      -70.95 To 537.6 %



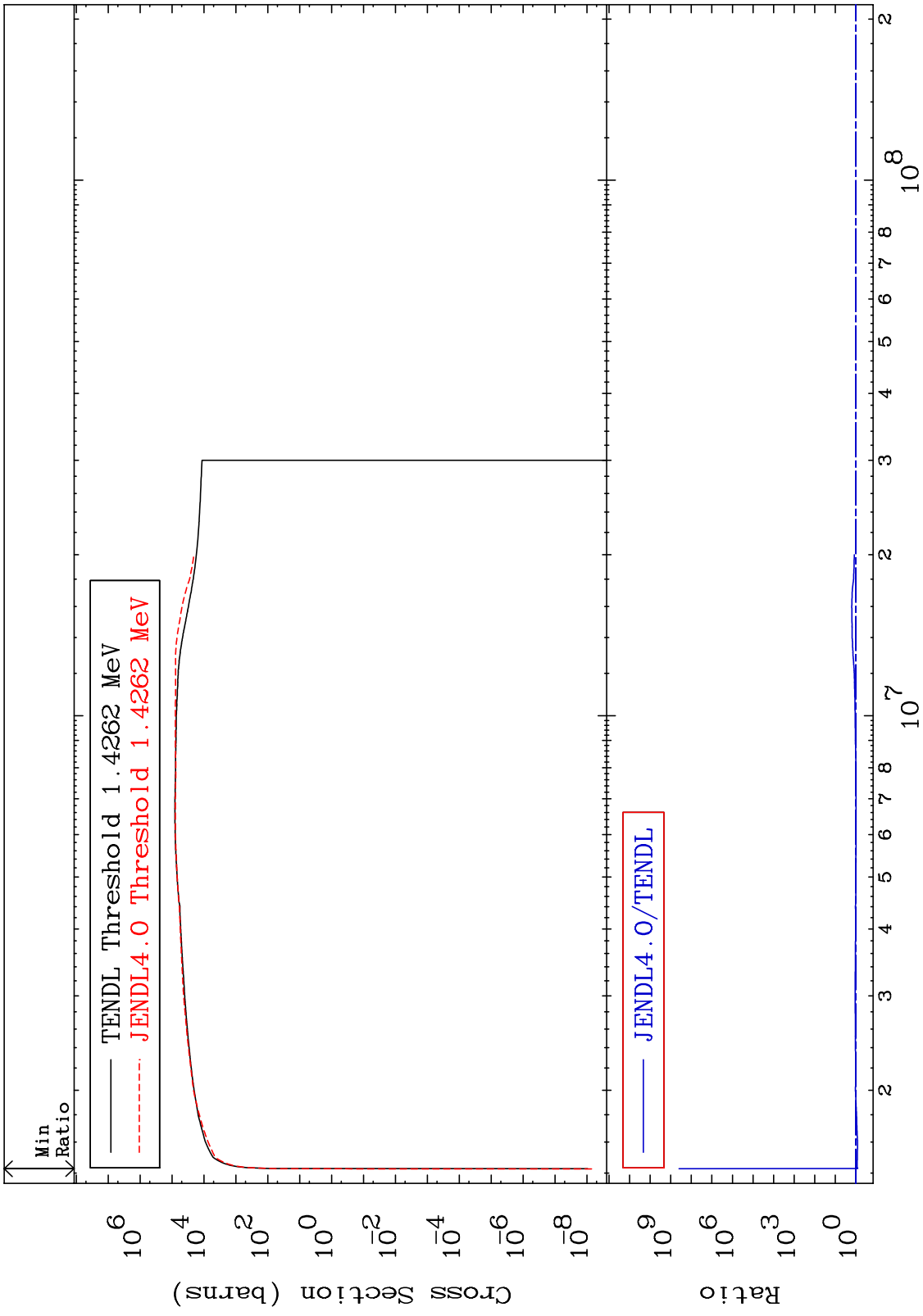
12-Mg-24

Incident Energy (eV)

MAT 1225 Dpa elastic (mt2) 12-Mg-24  
 Cross Section -70.95 To 222.1 %



33 12-Mg-24



MAT 1225      Dpa disappearance (mt102 -120)      12-Mg-24  
 Cross Section      -40.94 To 4268. %

