

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

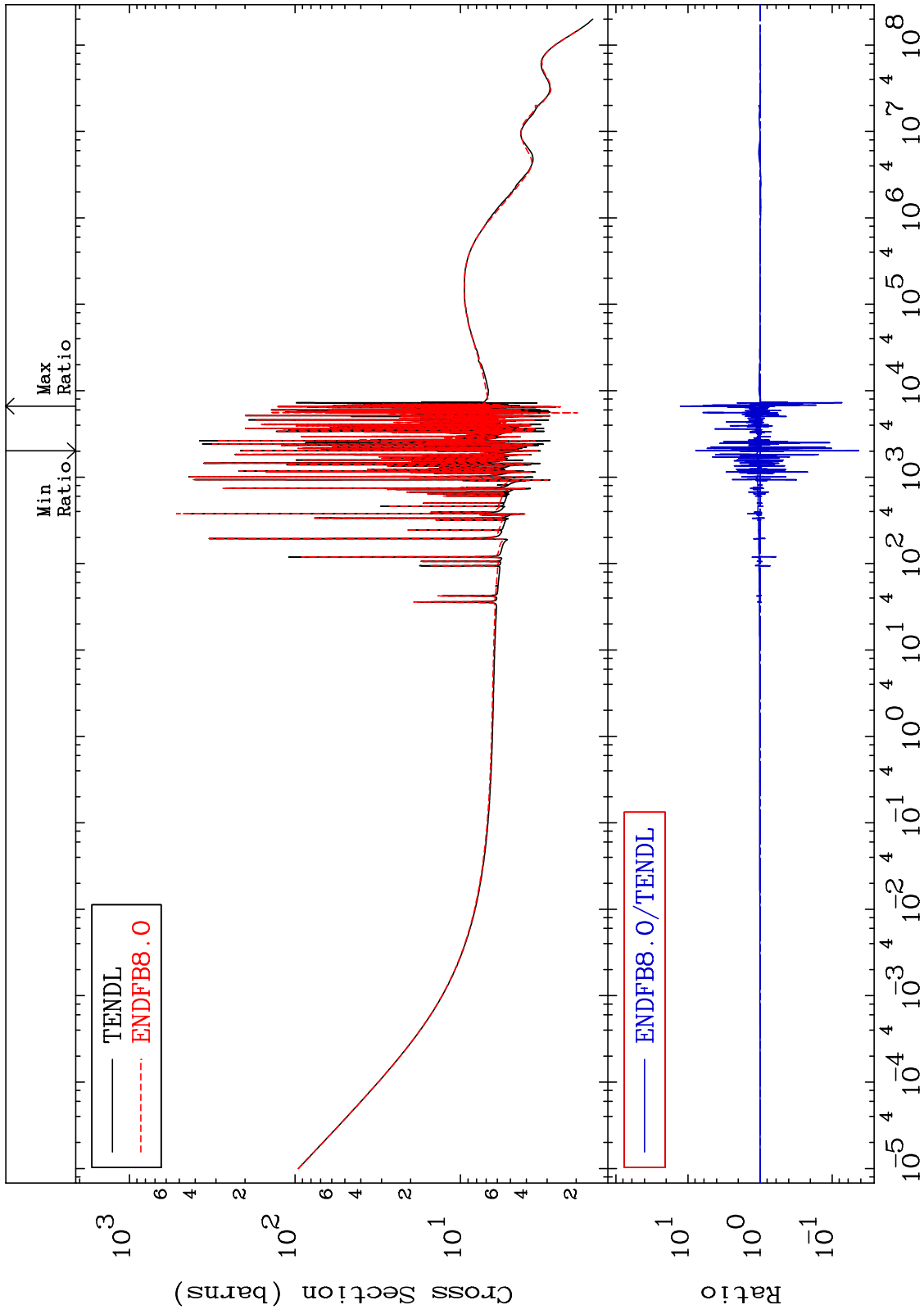
Tele: 925-443-1911

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 4125 41-Nb-93 -95.75 To 1180. %

Total Cross Section

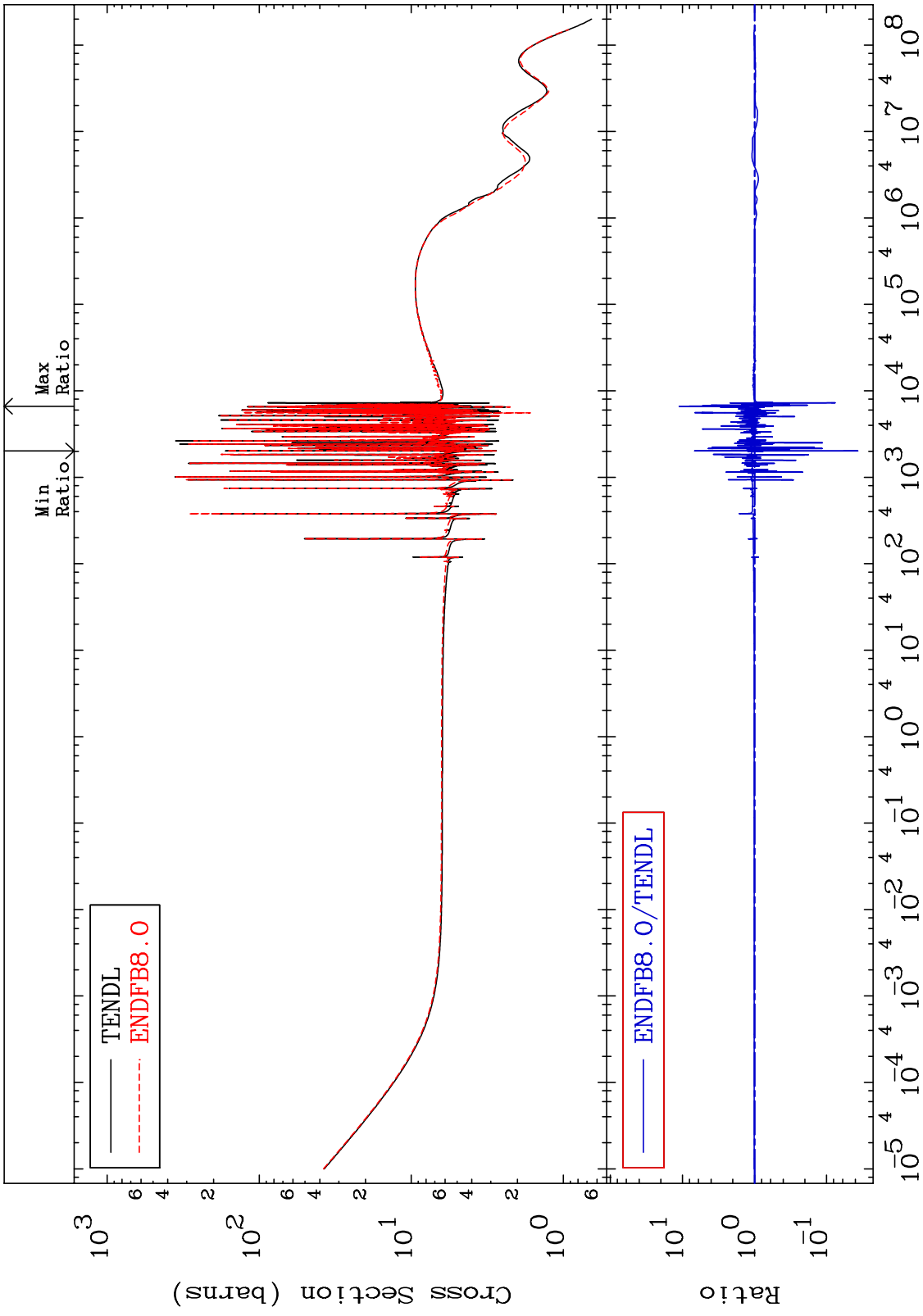


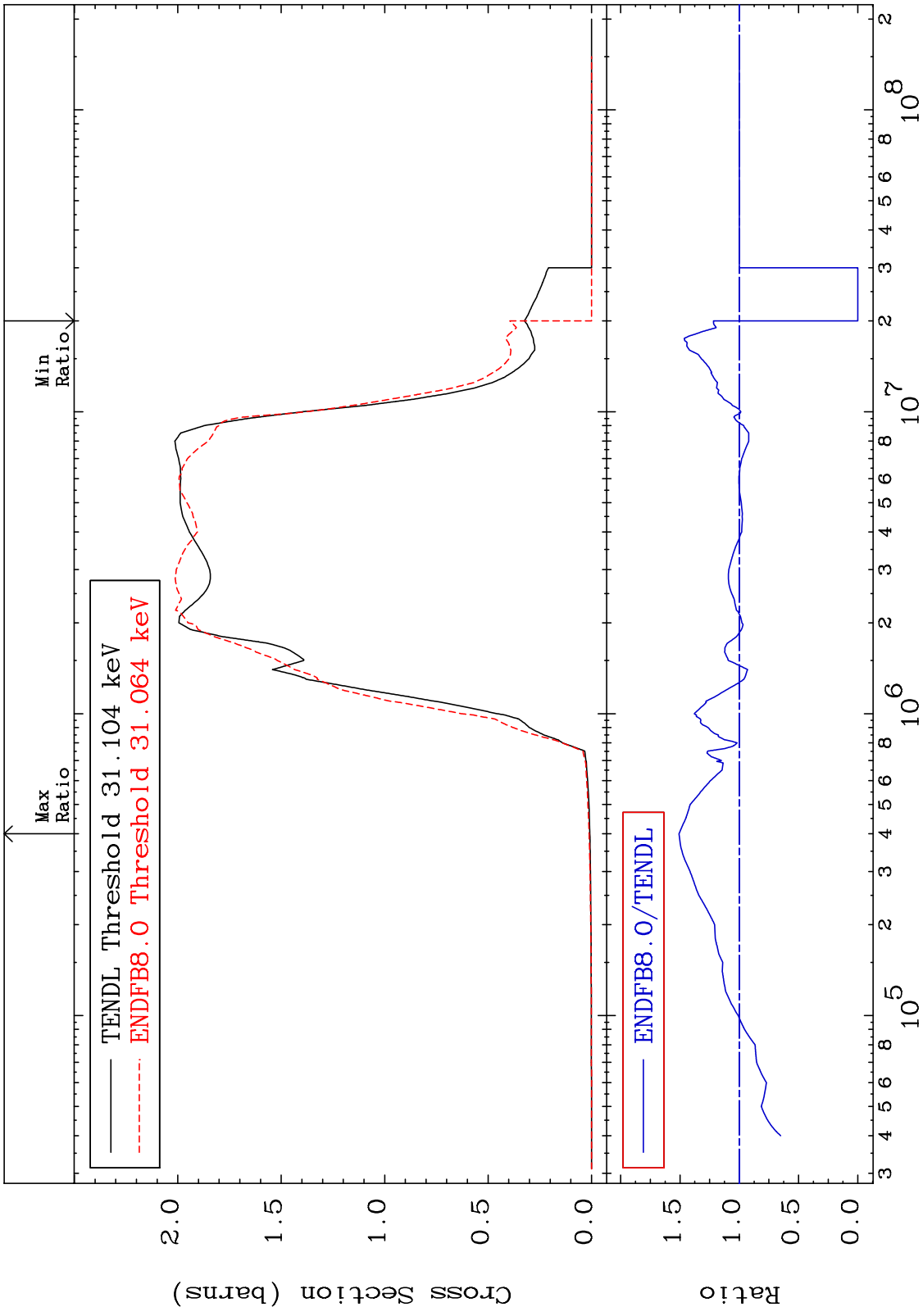
41-Nb-93

Incident Energy (eV)

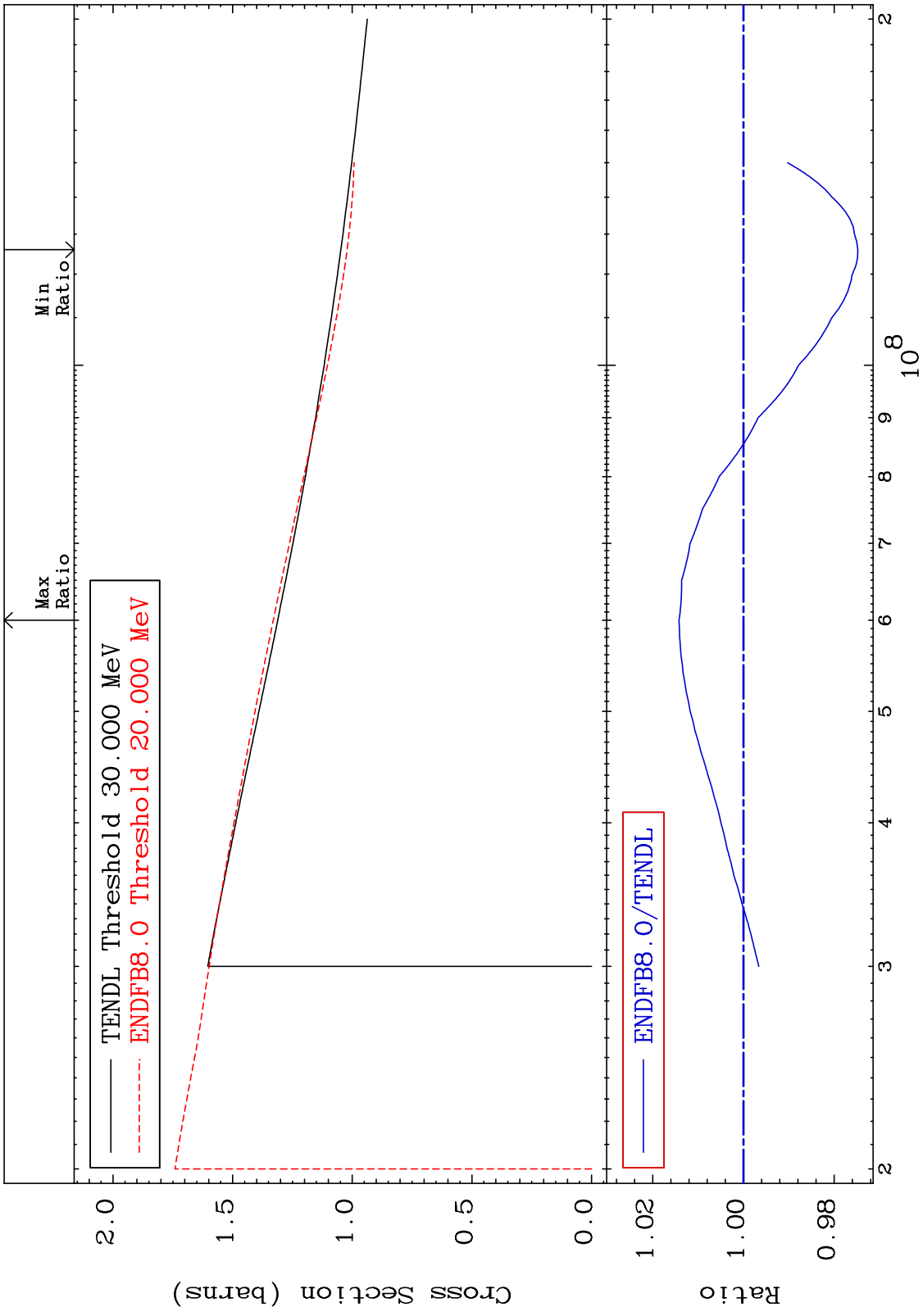
1

MAT 4125 Elastic Cross Section 41-Nb-93 -96.31 To 1016. %

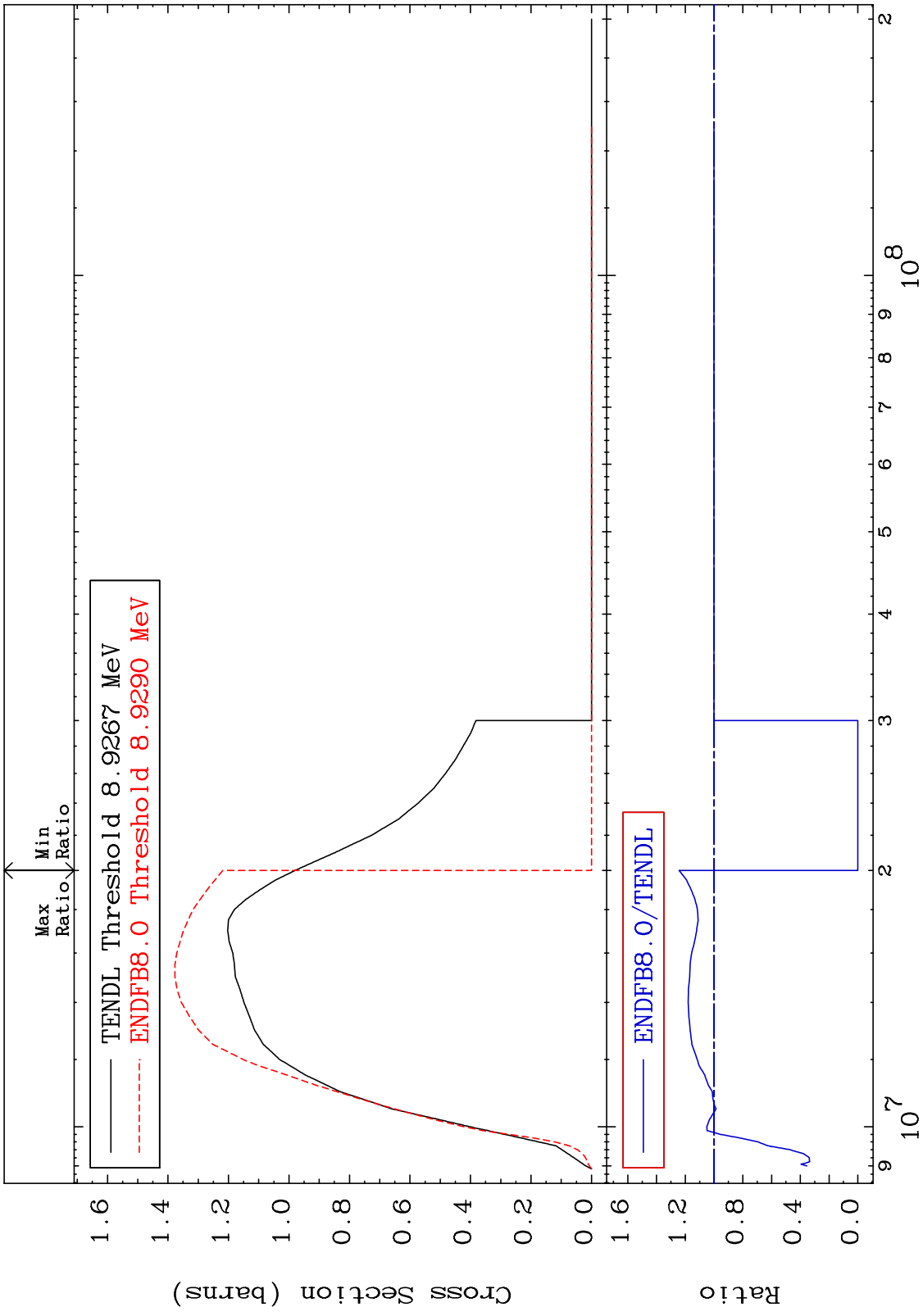




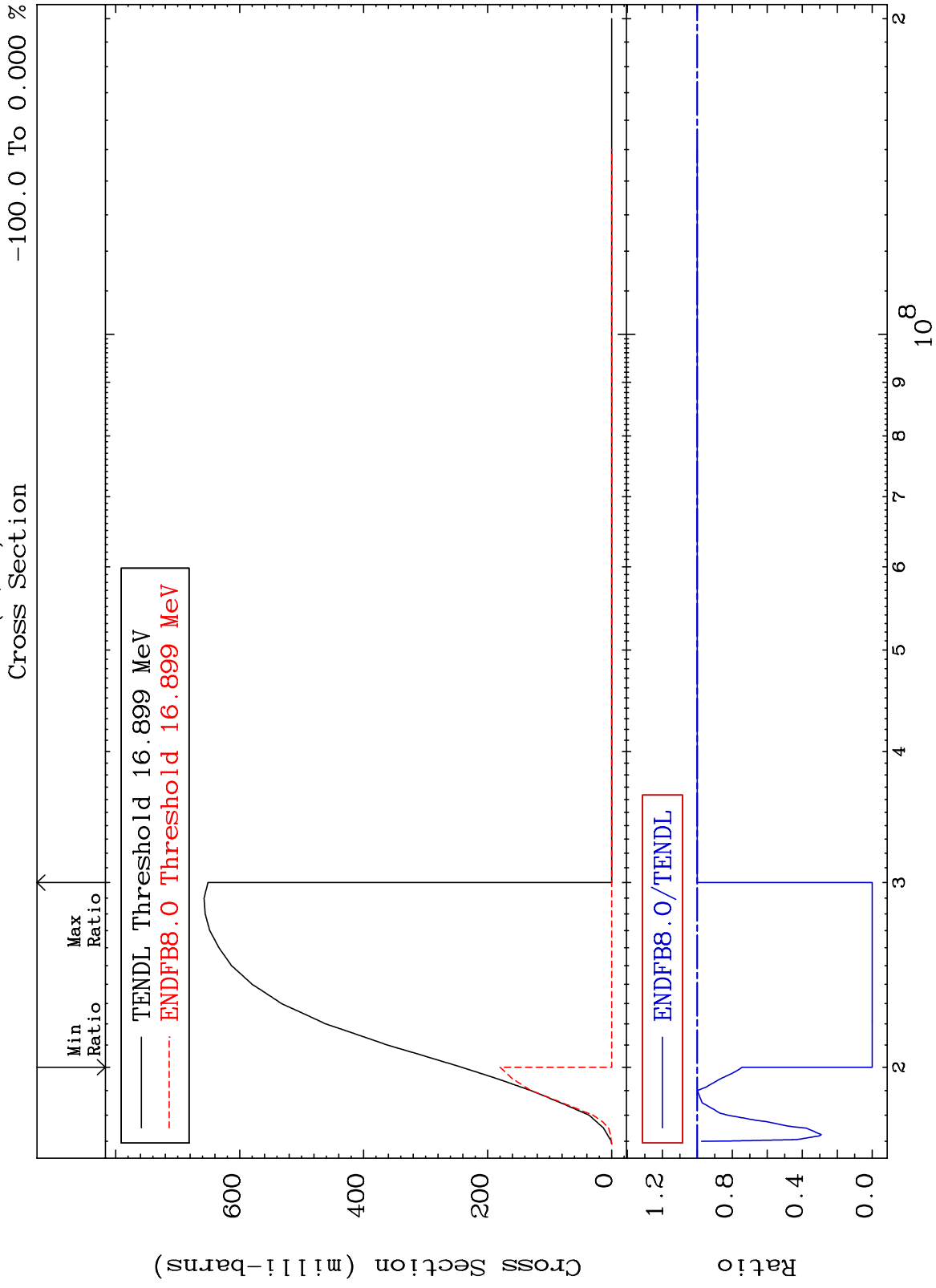
MAT 4125 41-Nb-93 (n, remainder) Cross Section -2.519 To 1.420 %



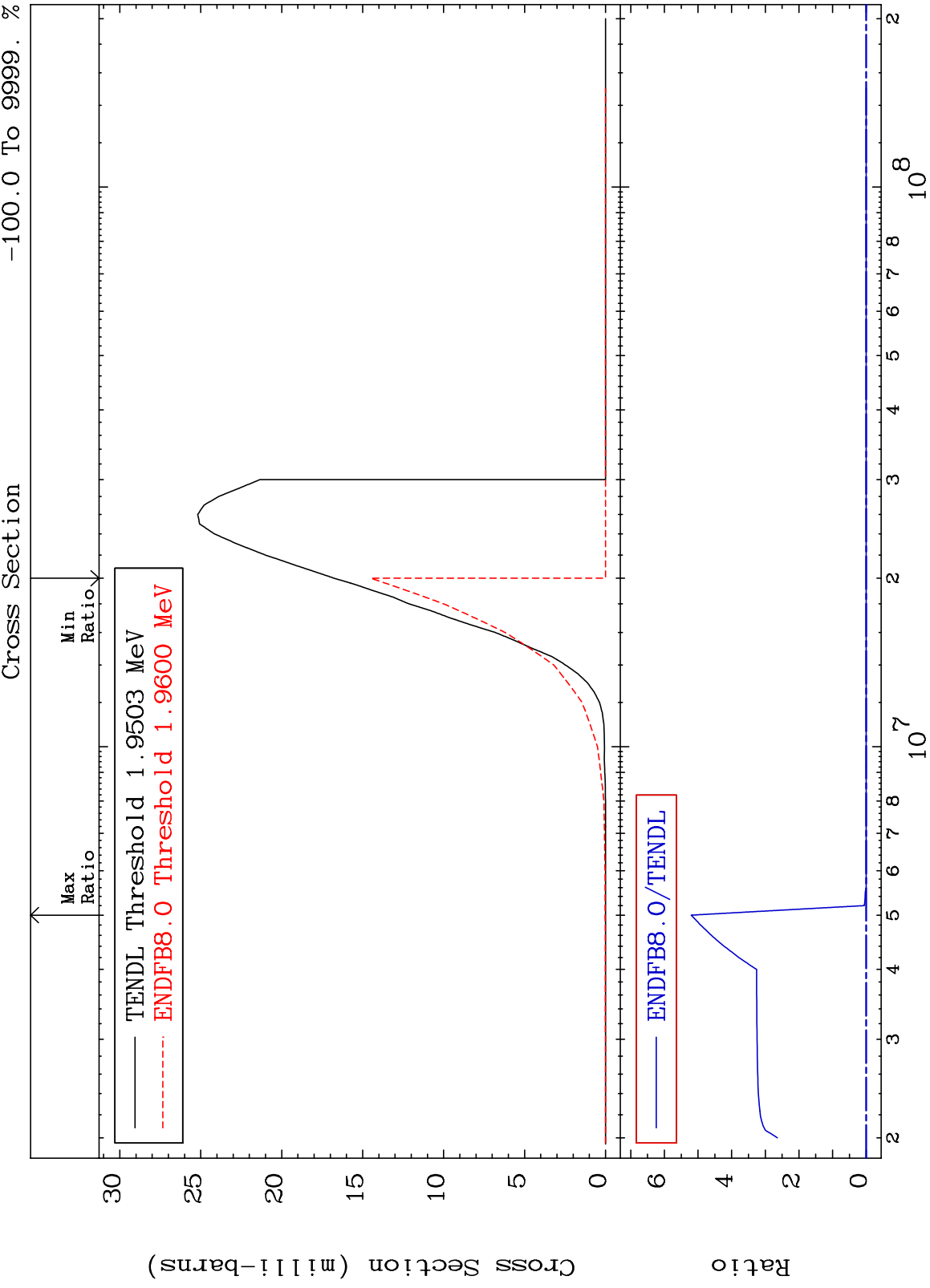
MAT 4125 (n,2n) Cross Section 41-Nb-93 -100.0 To 24.35 %



41-Nb-93



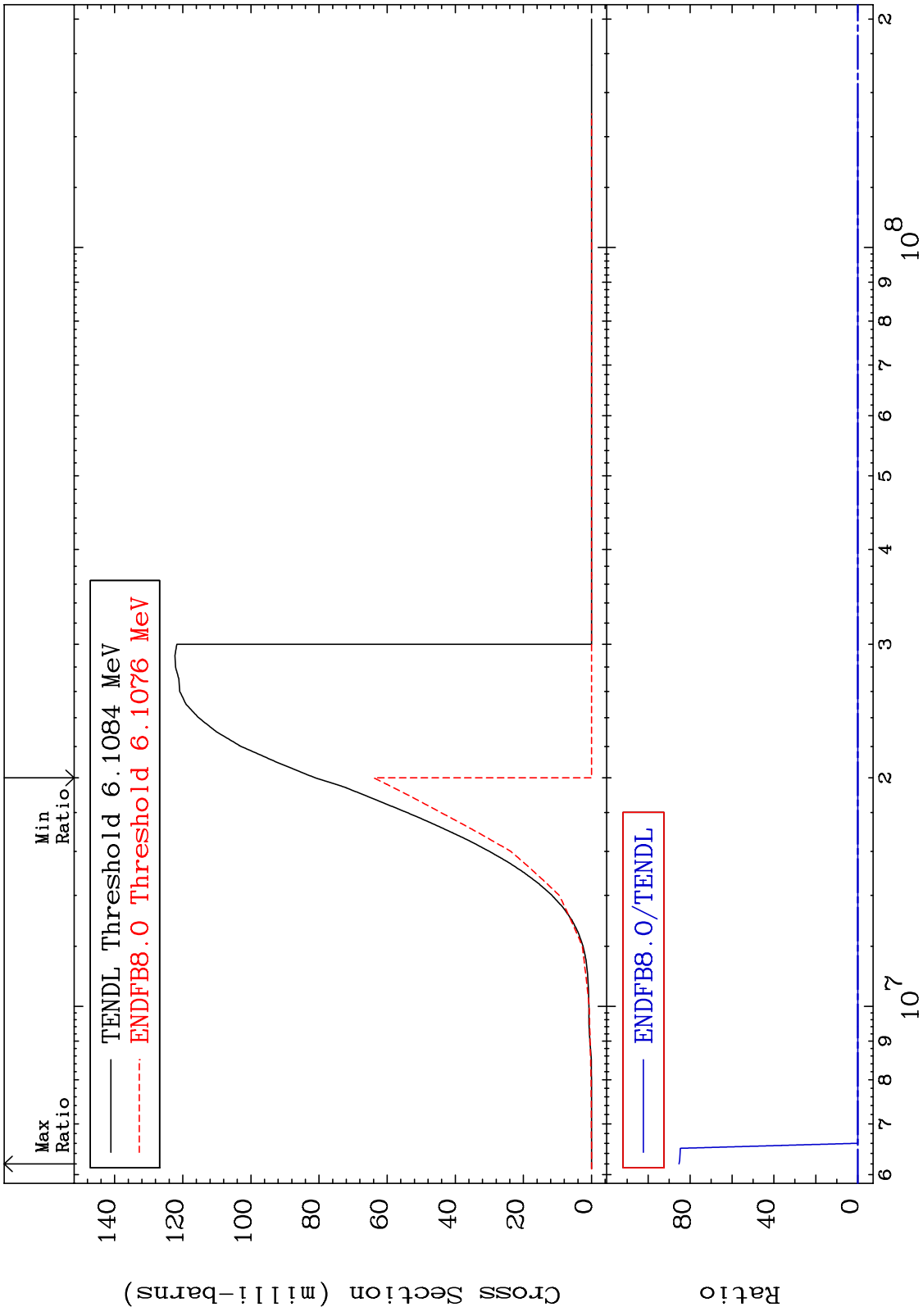
MAT 4125  $(n, n') \alpha$  41-Nb-93 -100.0 To 9999. %



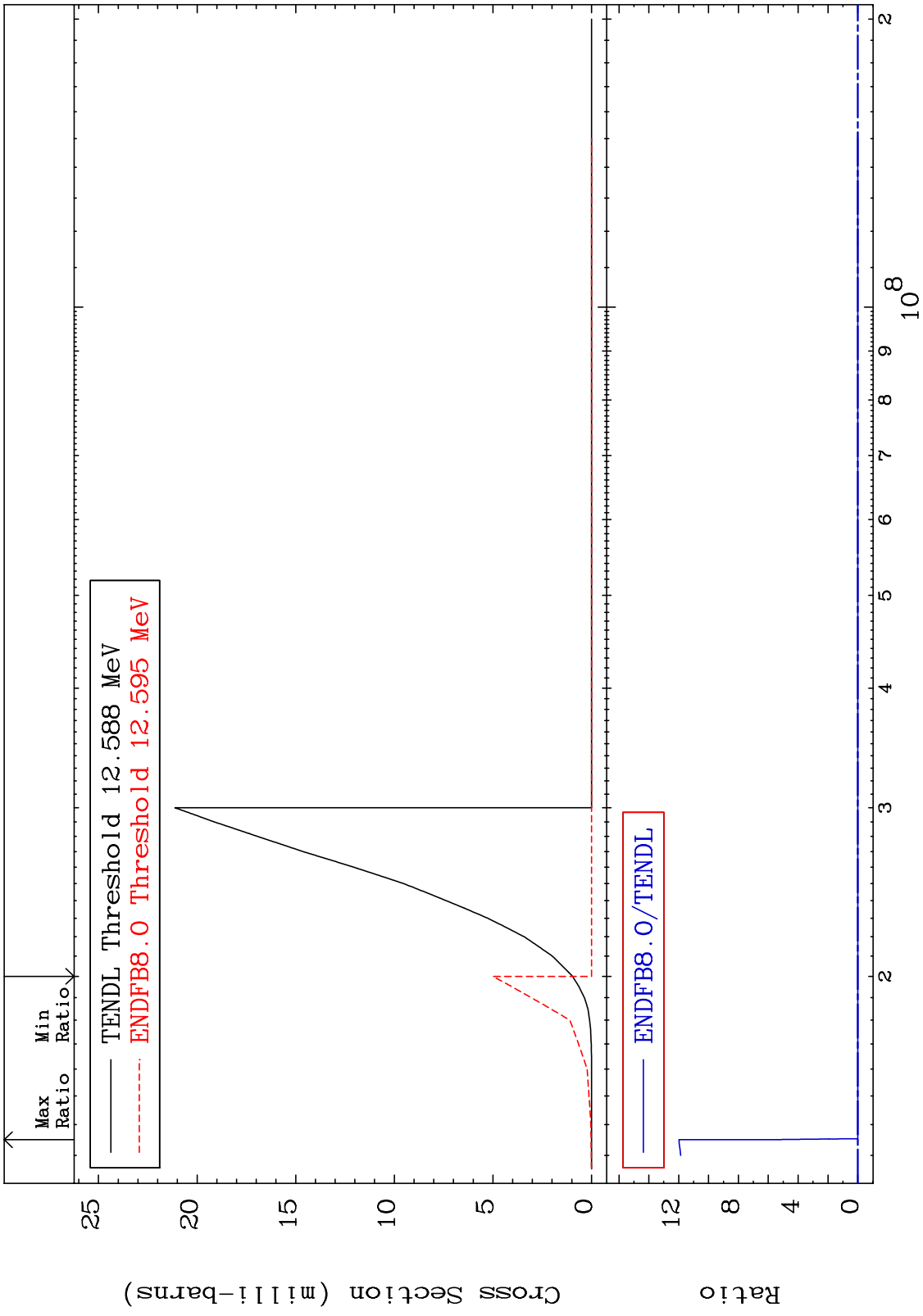
7 41-Nb-93



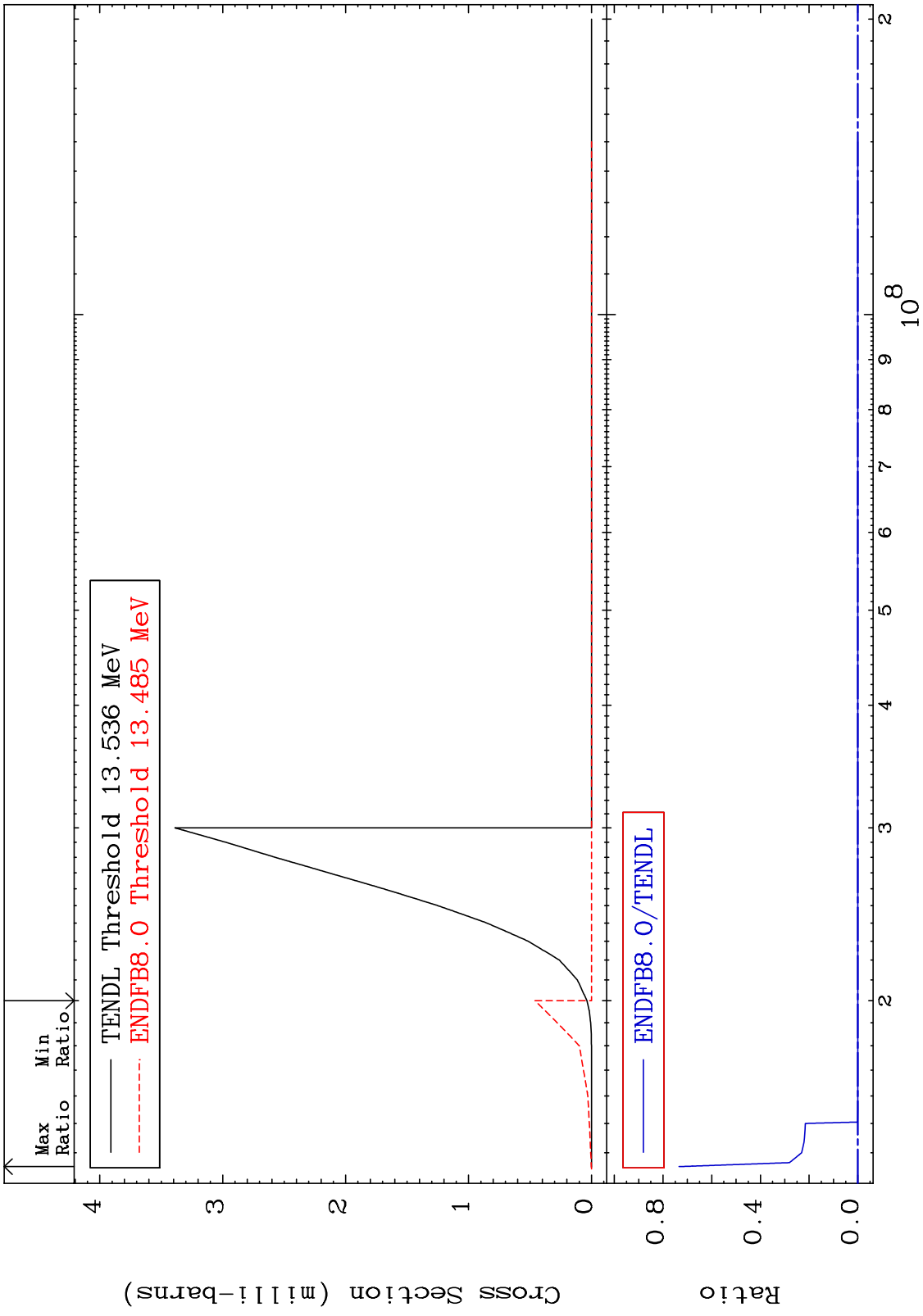
MAT 4125 (n,n') p Cross Section 41-Nb-93 -100.0 To 9999. %



8 41-Nb-93

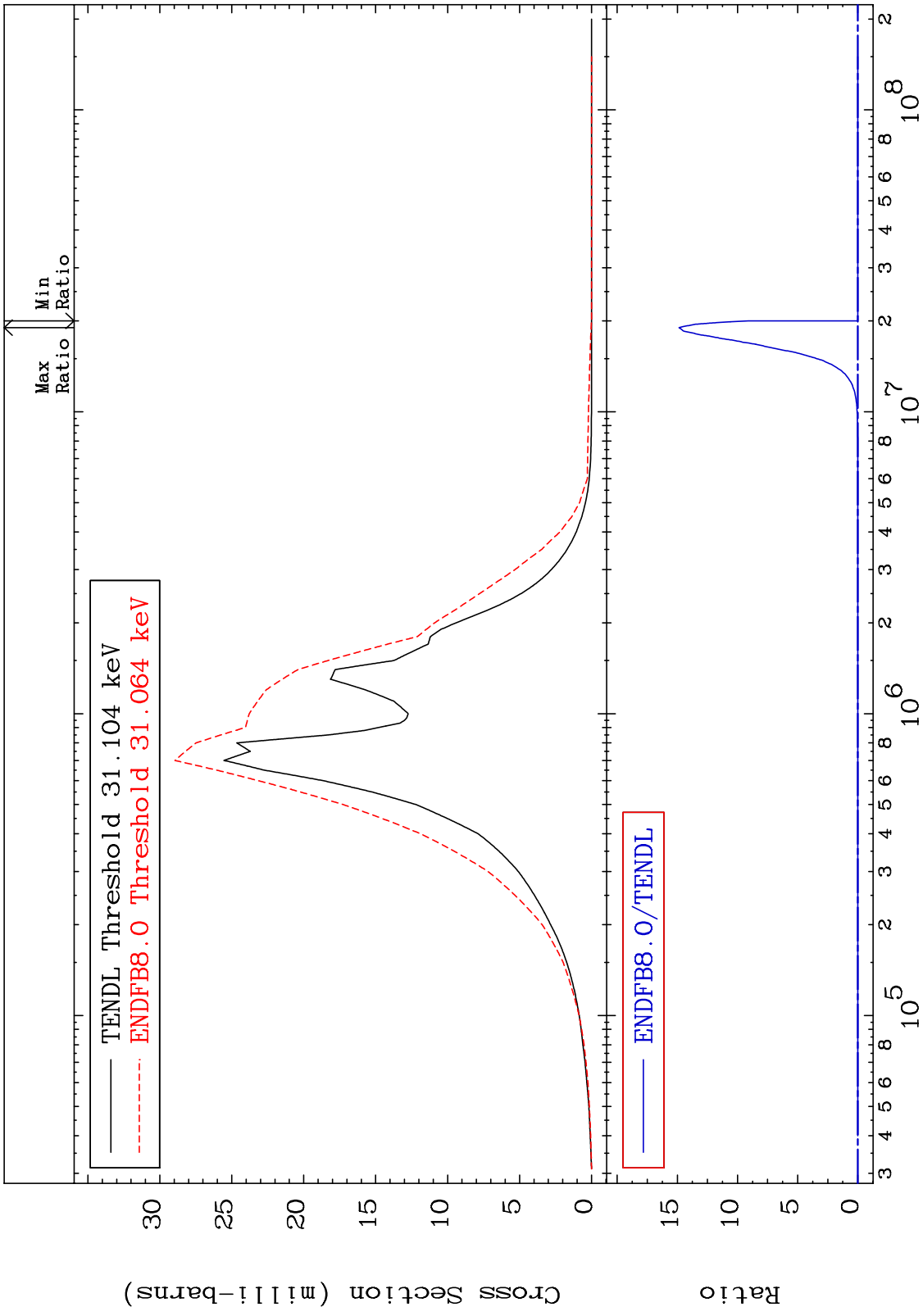


MAT 4125 (n,n') t 41-Nb-93  
 Cross Section -100.0 To 9999. %

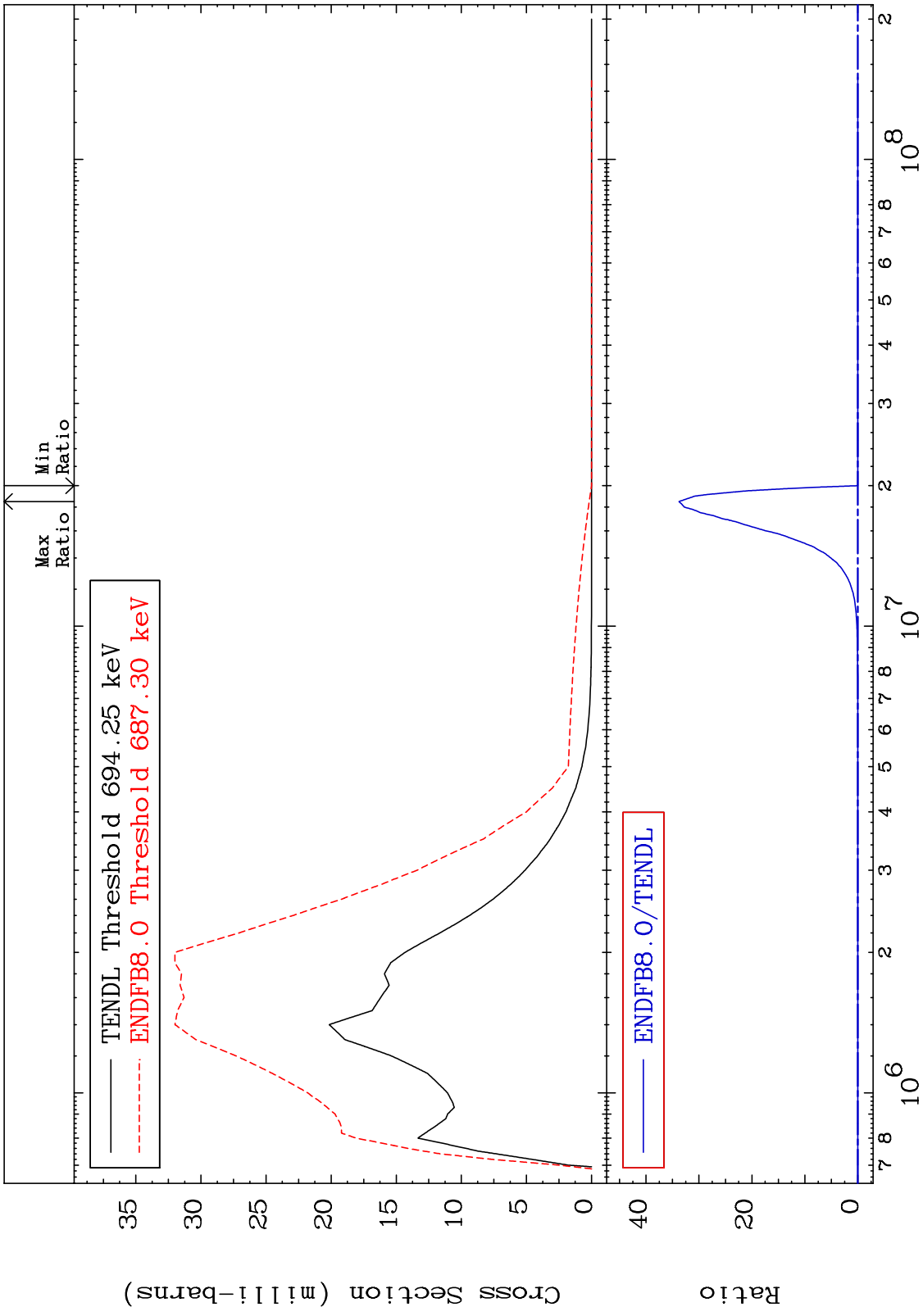


10 Incident Energy (eV) 41-Nb-93

MAT 4125      MT= 51 (n,n') Level      41-Nb-93  
 Cross Section      -100.0 To 9999. %

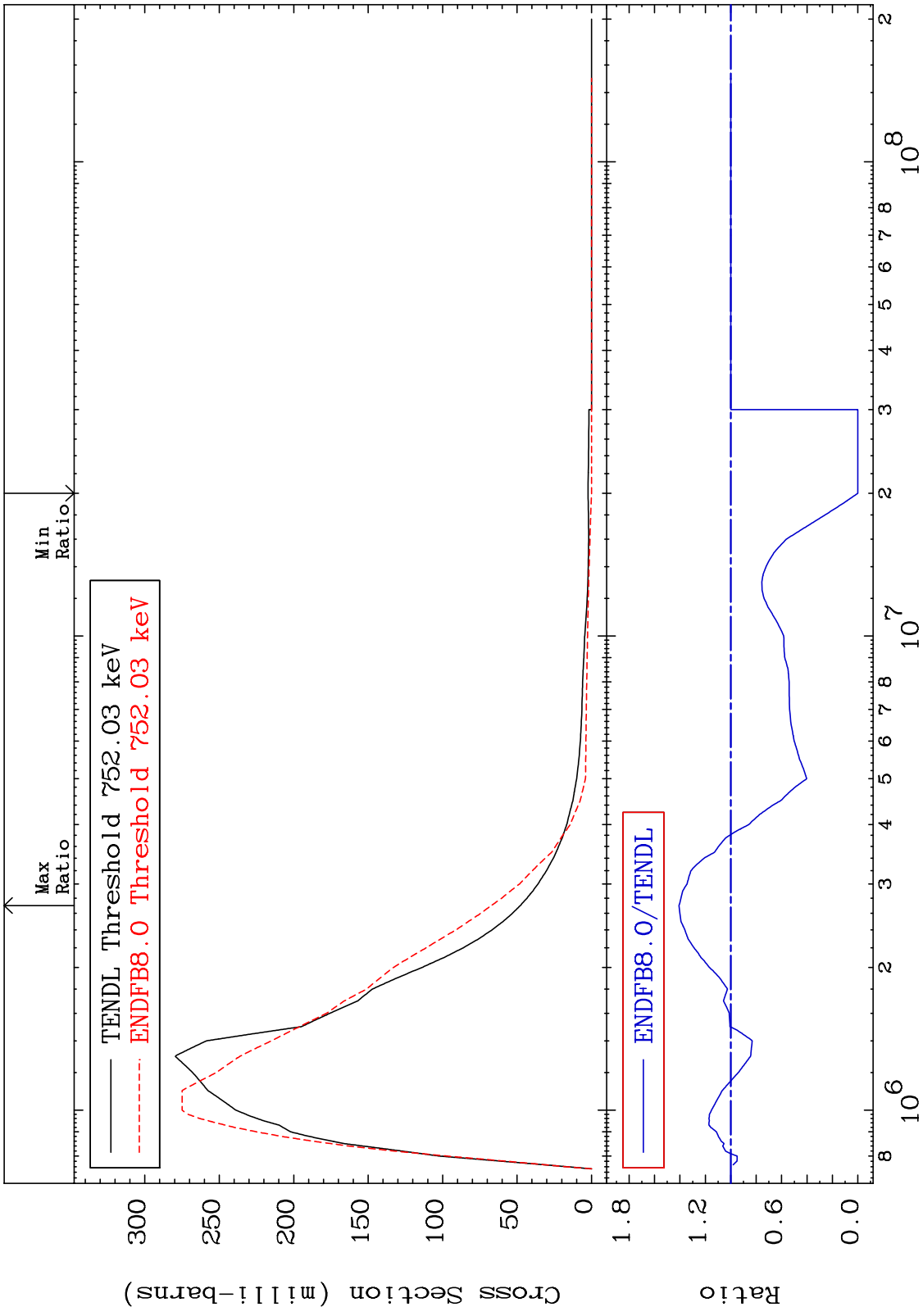


MAT 4125 MT= 52 (n,n') Level Cross Section -100.0 To 9999. % 41-Nb-93

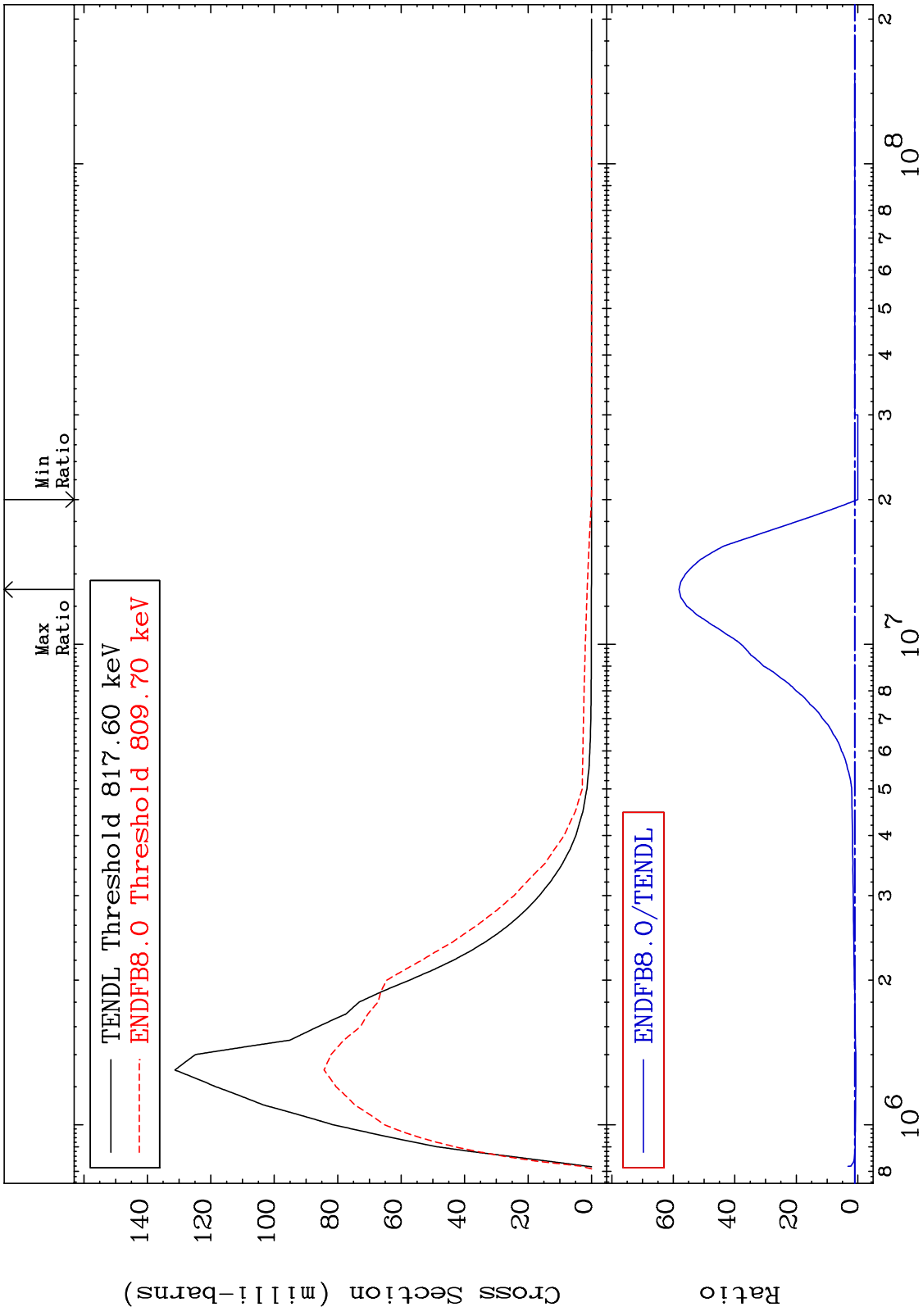


12 41-Nb-93

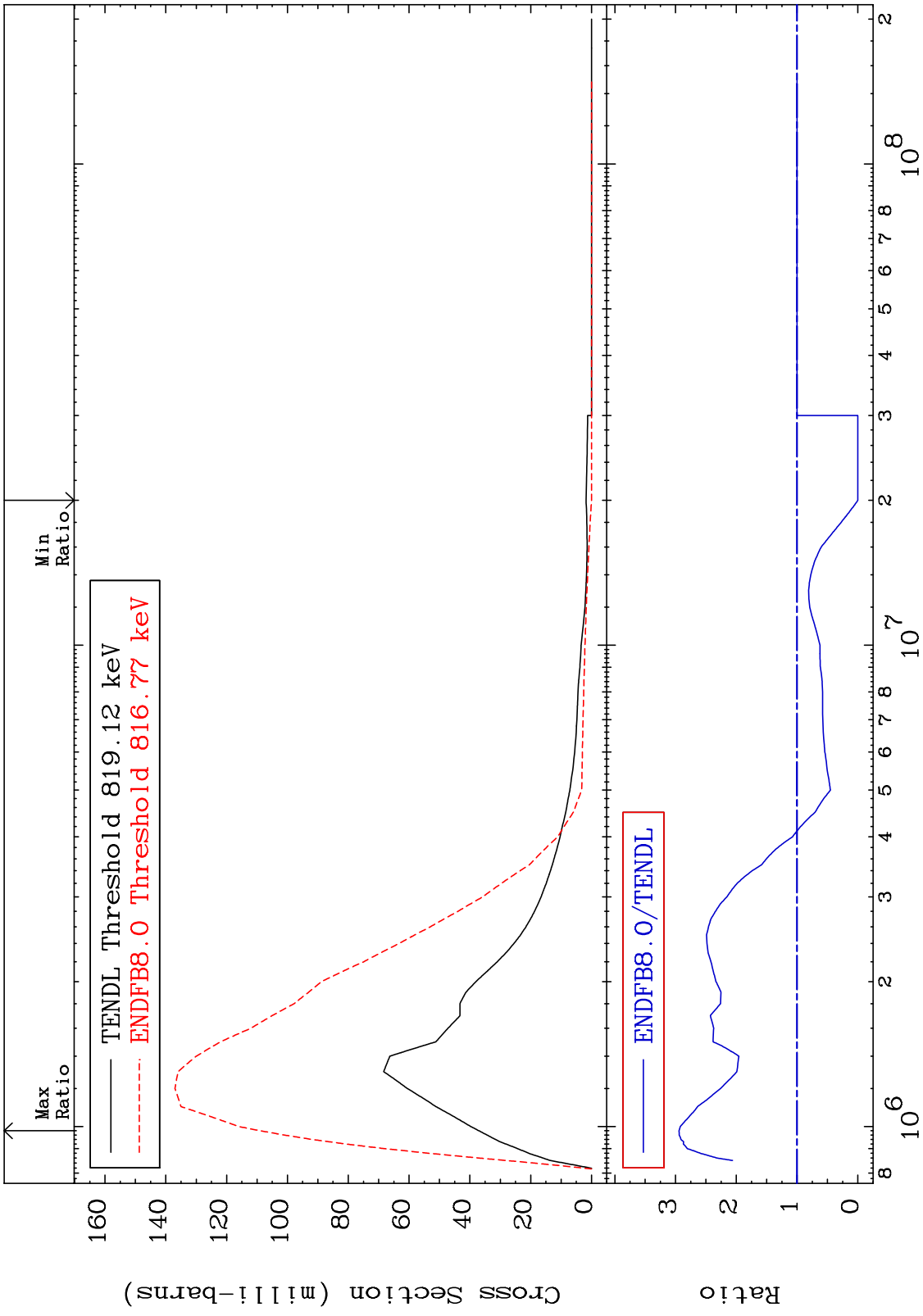
MAT 4125 MT= 53 (n,n') Level Cross Section -100.0 To 40.71 % 41-Nb-93



MAT 4125 MT= 54 (n,n') Level Cross Section -100.0 To 5713. % 41-Nb-93



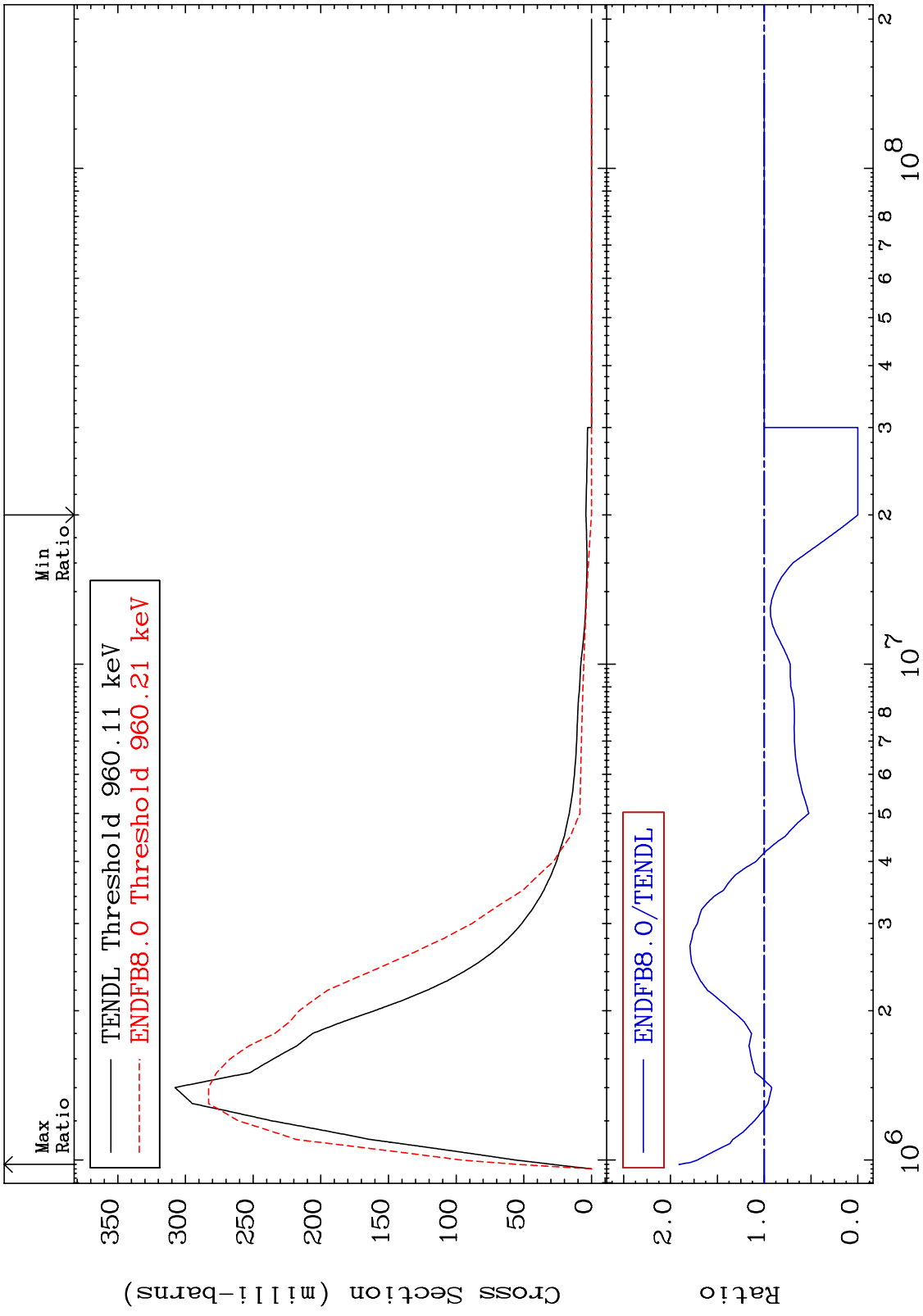
MAT 4125 MT= 55 (n,n') Level Cross Section -100.0 To 194.3 % 41-Nb-93



15 41-Nb-93



MAT 4125 MT= 56 (n,n') Level Cross Section -100.0 To 90.92 % 41-Nb-93

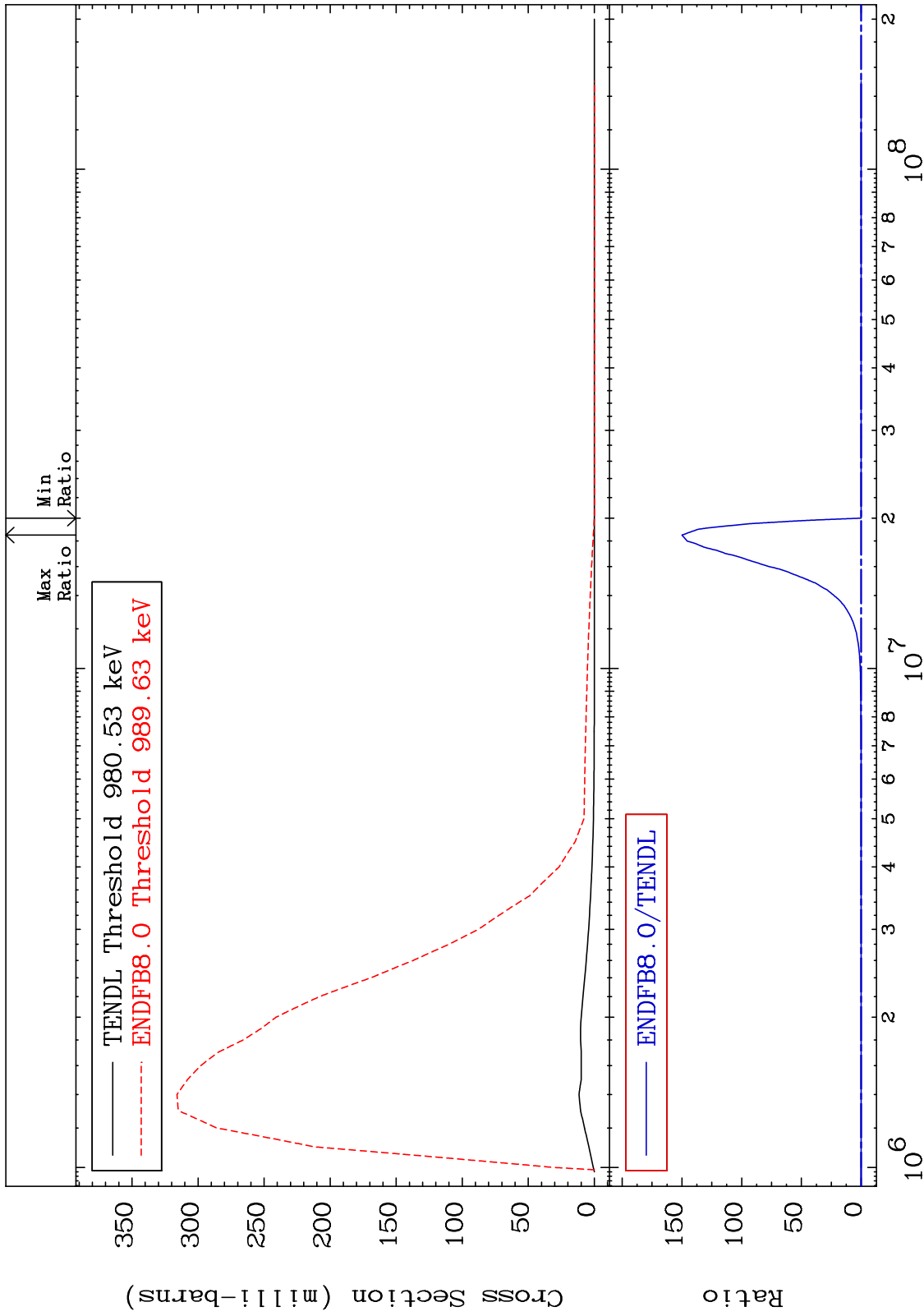


16 Incident Energy (eV) 41-Nb-93

MAT 4125

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

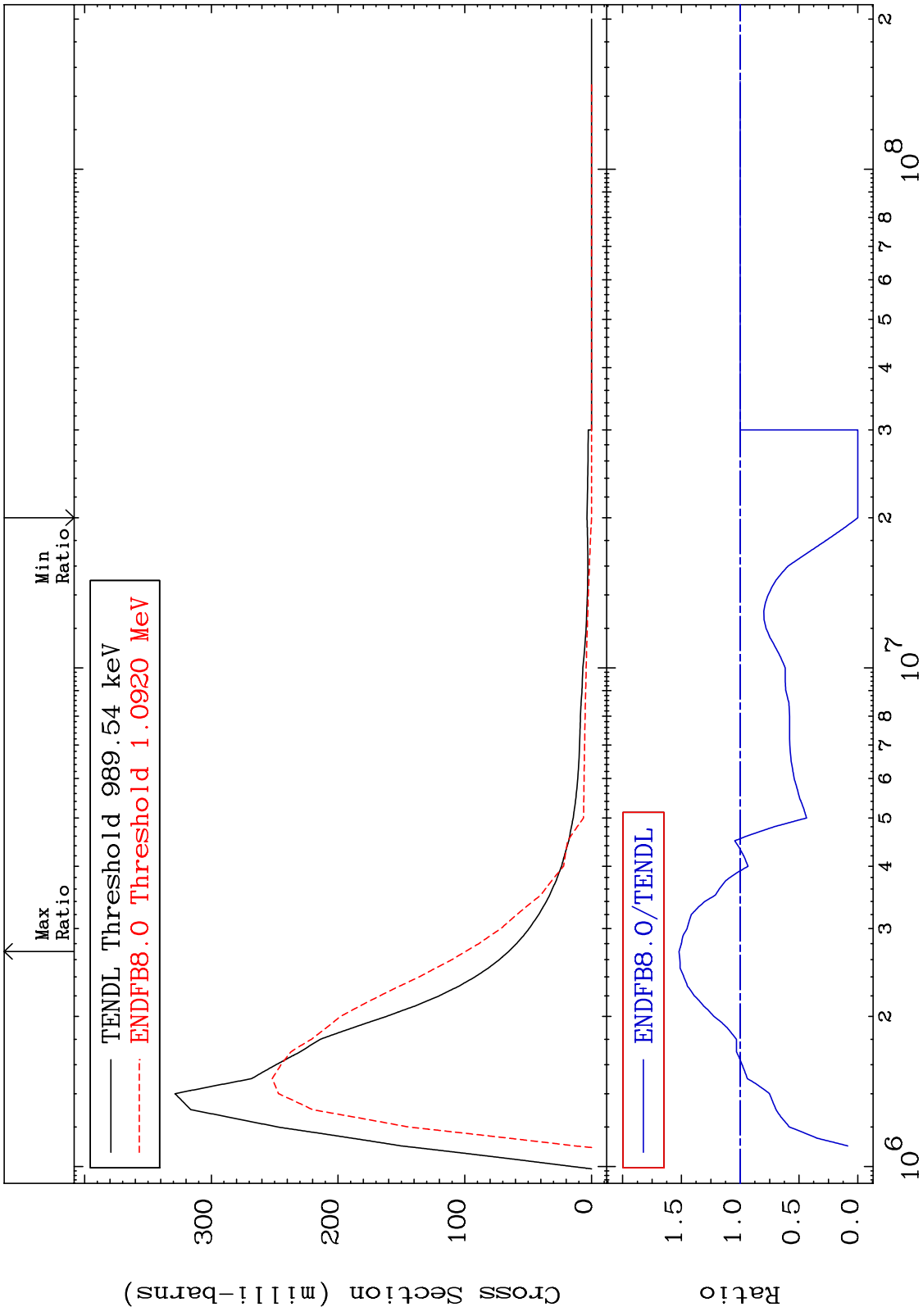
41-Nb-93  
-100.0 To 9999. %



Incident Energy (eV)

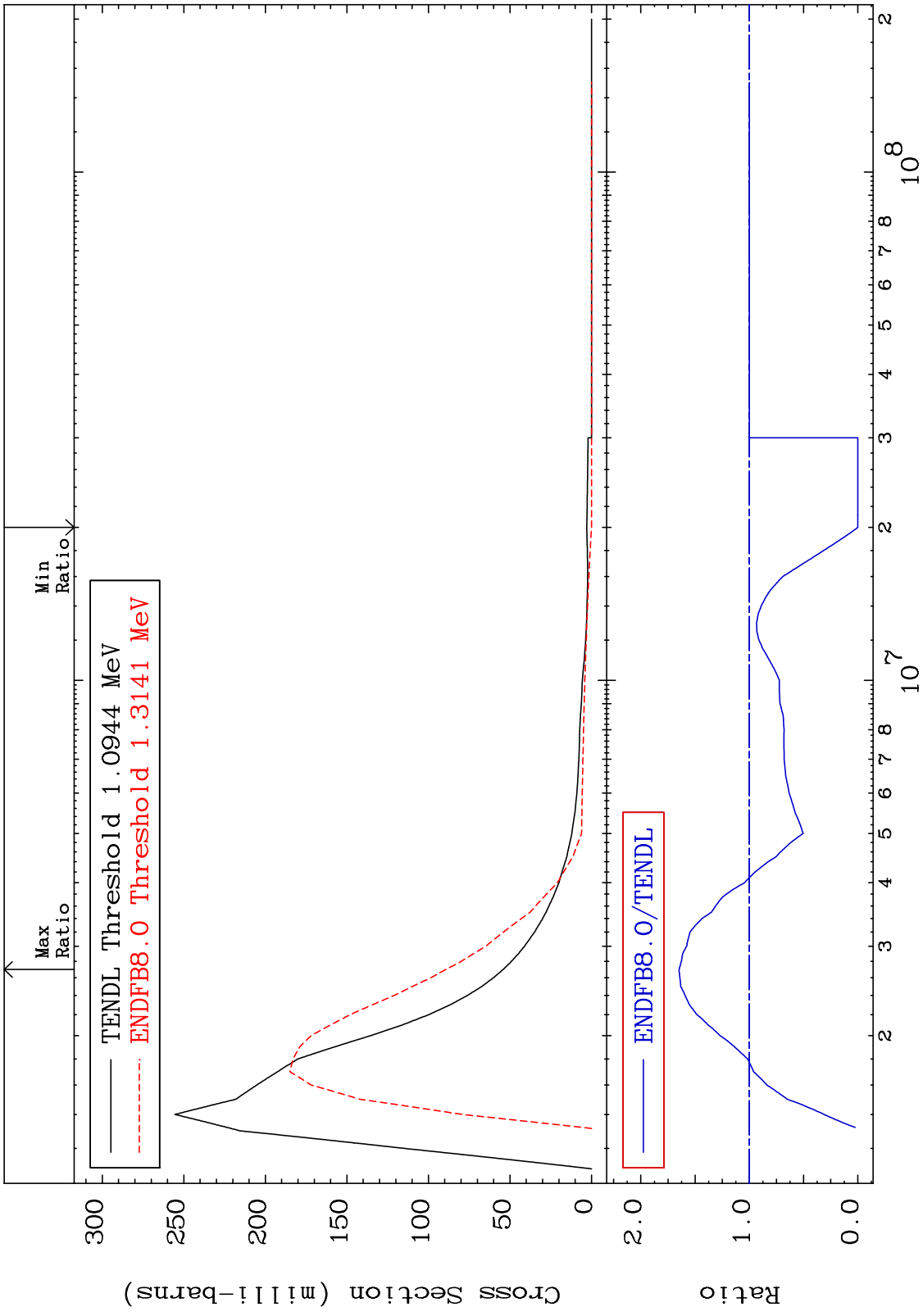
41-Nb-93

MAT 4125 MT= 58 (n,n') Level Cross Section -100.0 To 52.03 % 41-Nb-93

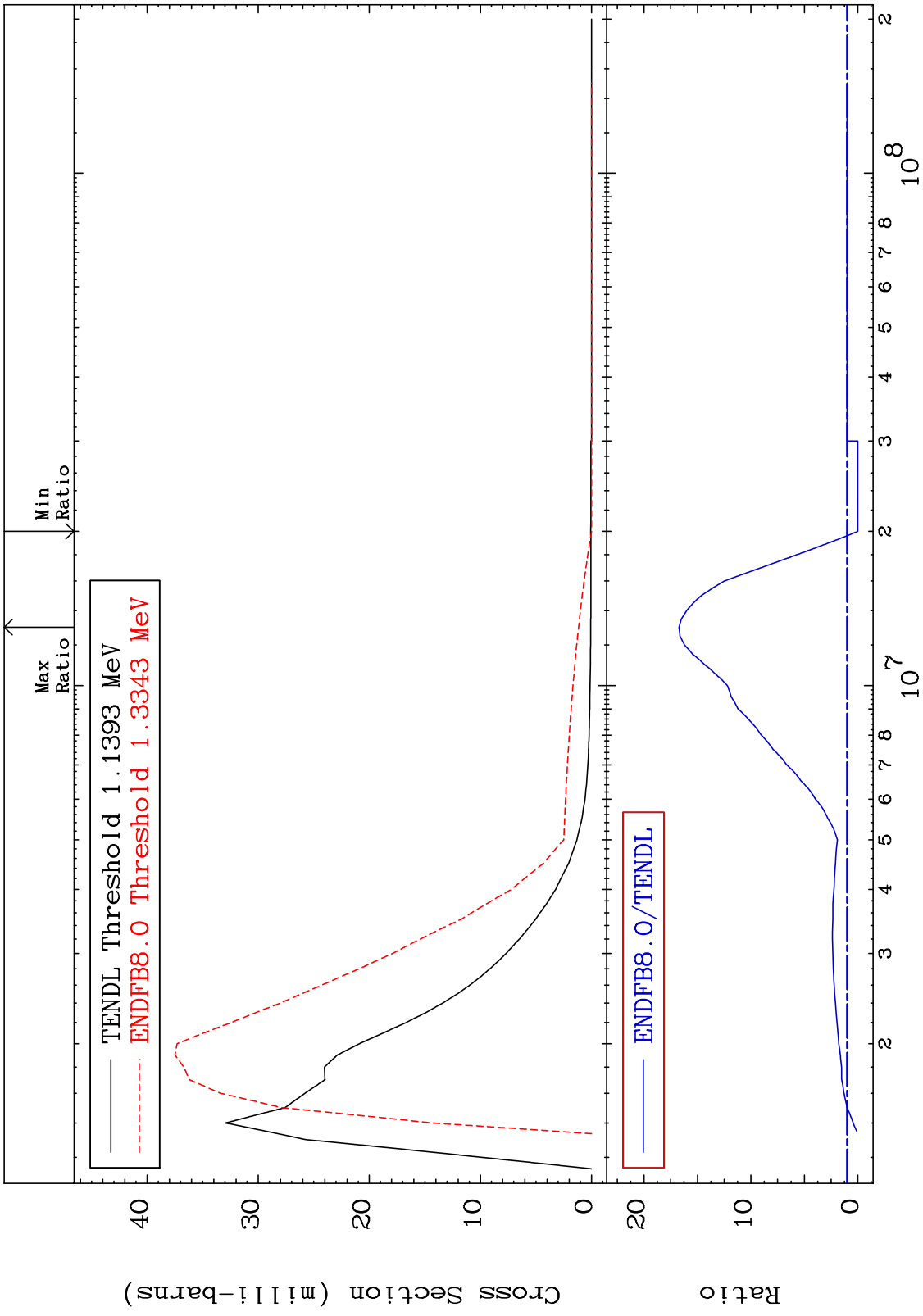


18 Incident Energy (eV) 41-Nb-93

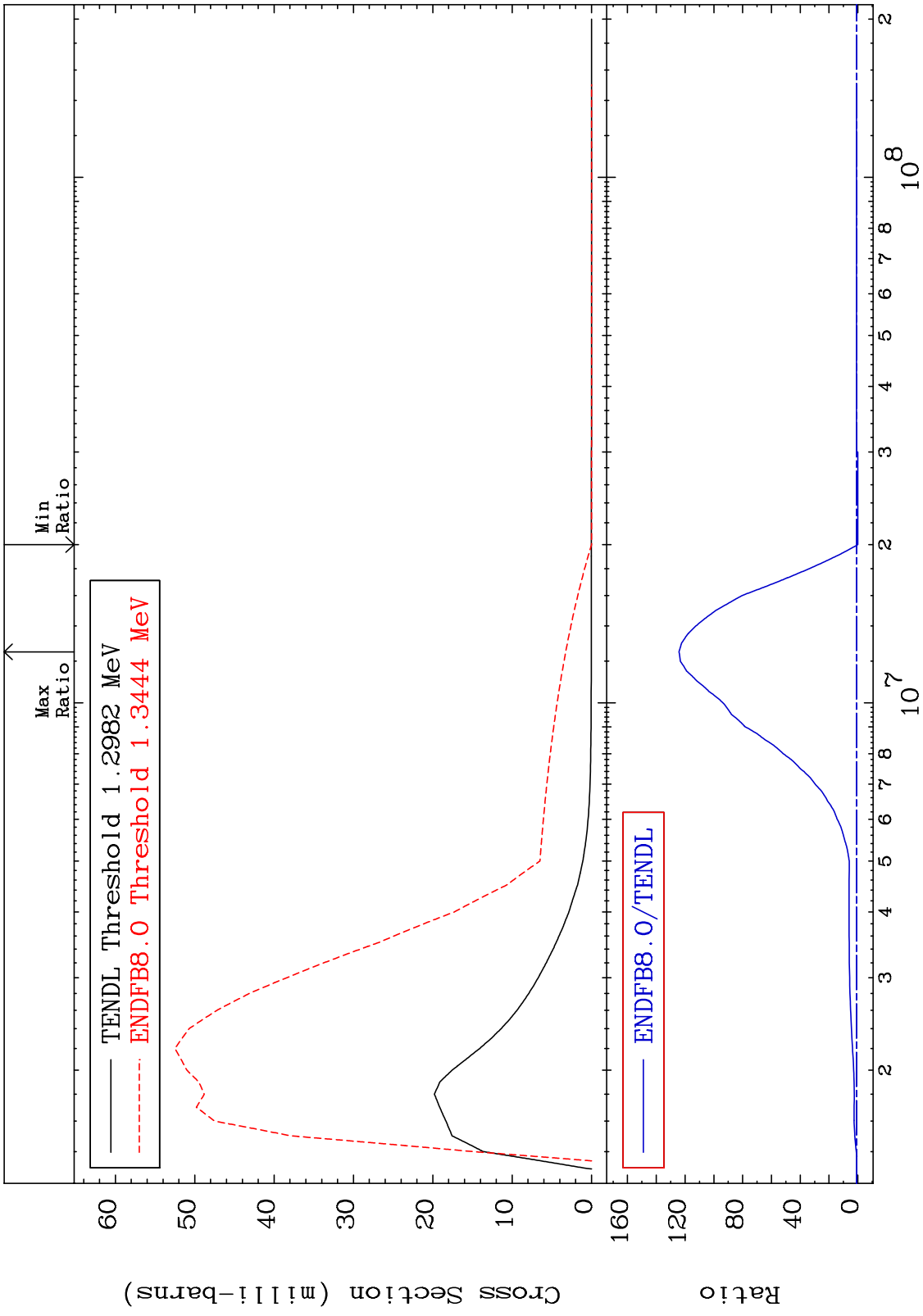
MAT 4125 MT= 59 (n,n') Level Cross Section 41-Nb-93 -100.0 To 64.78 %



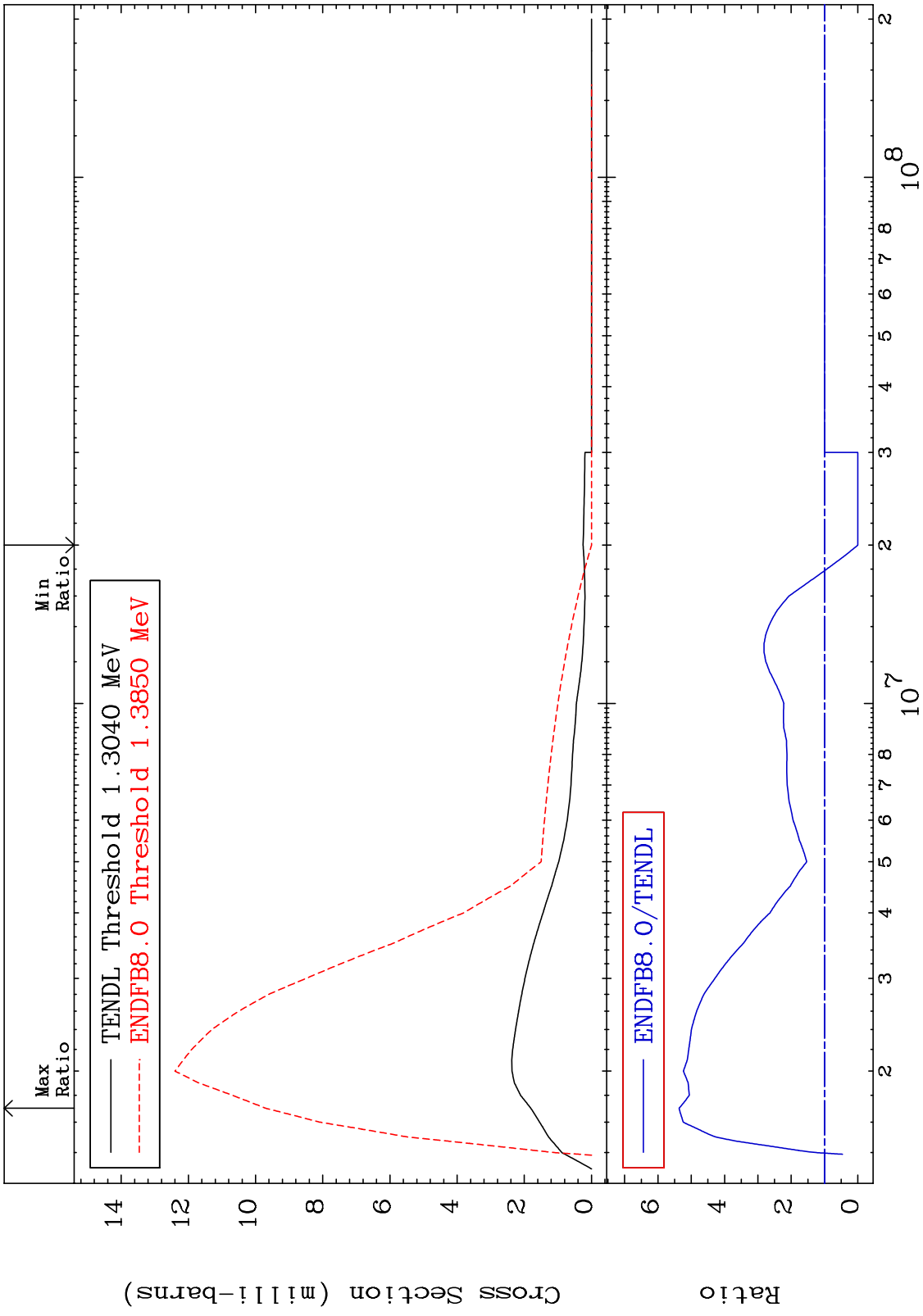
MAT 4125 MT= 60 (n,n') Level Cross Section -100.0 To 1572. % 41-Nb-93



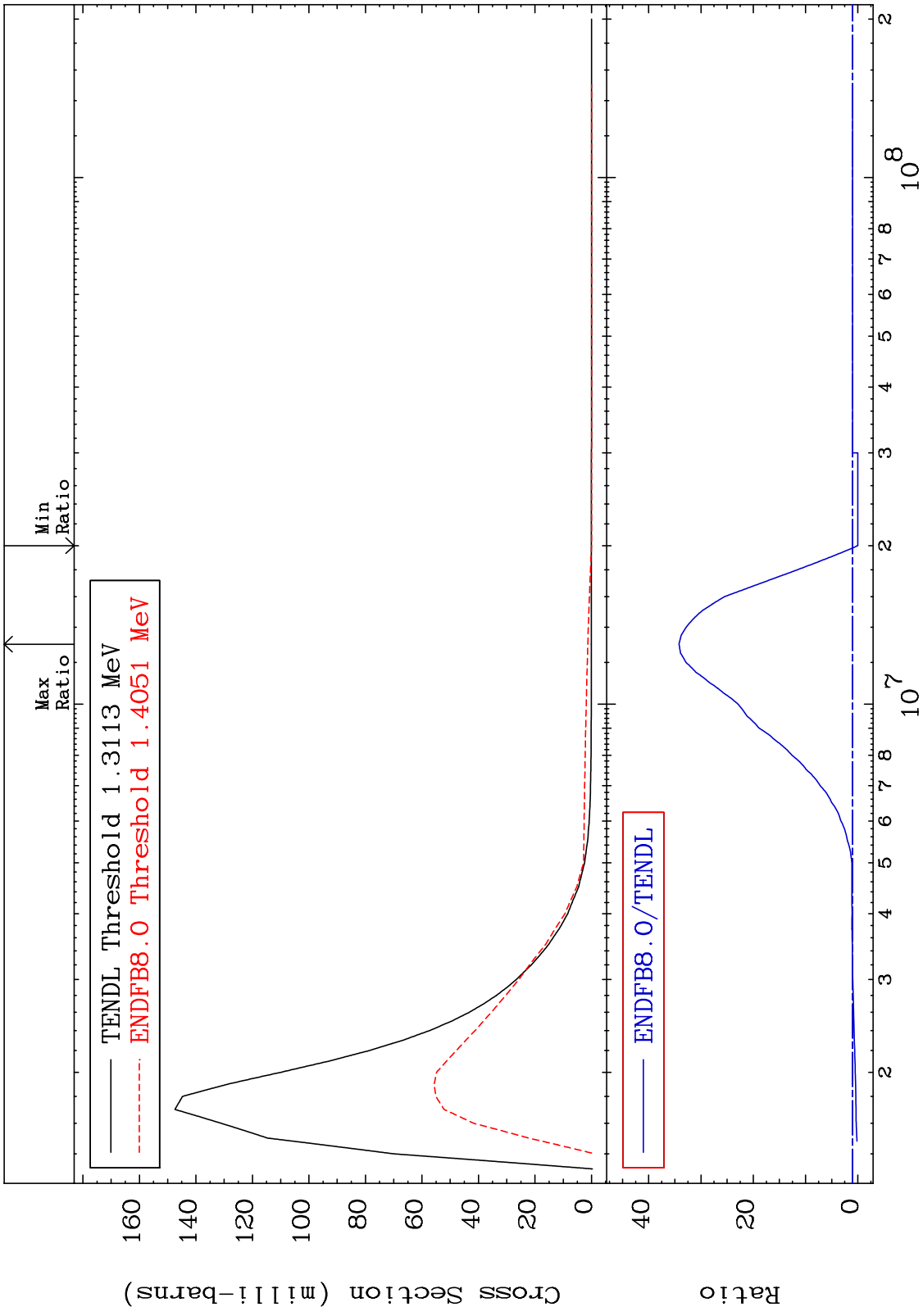
MAT 4125 MT= 61 (n,n') Level Cross Section -100.0 To 9999. % 41-Nb-93



MAT 4125 MT= 62 (n,n') Level Cross Section -100.0 To 436.7 % 41-Nb-93



MAT 4125 MT= 63 (n,n') Level Cross Section -100.0 To 3320. % 41-Nb-93

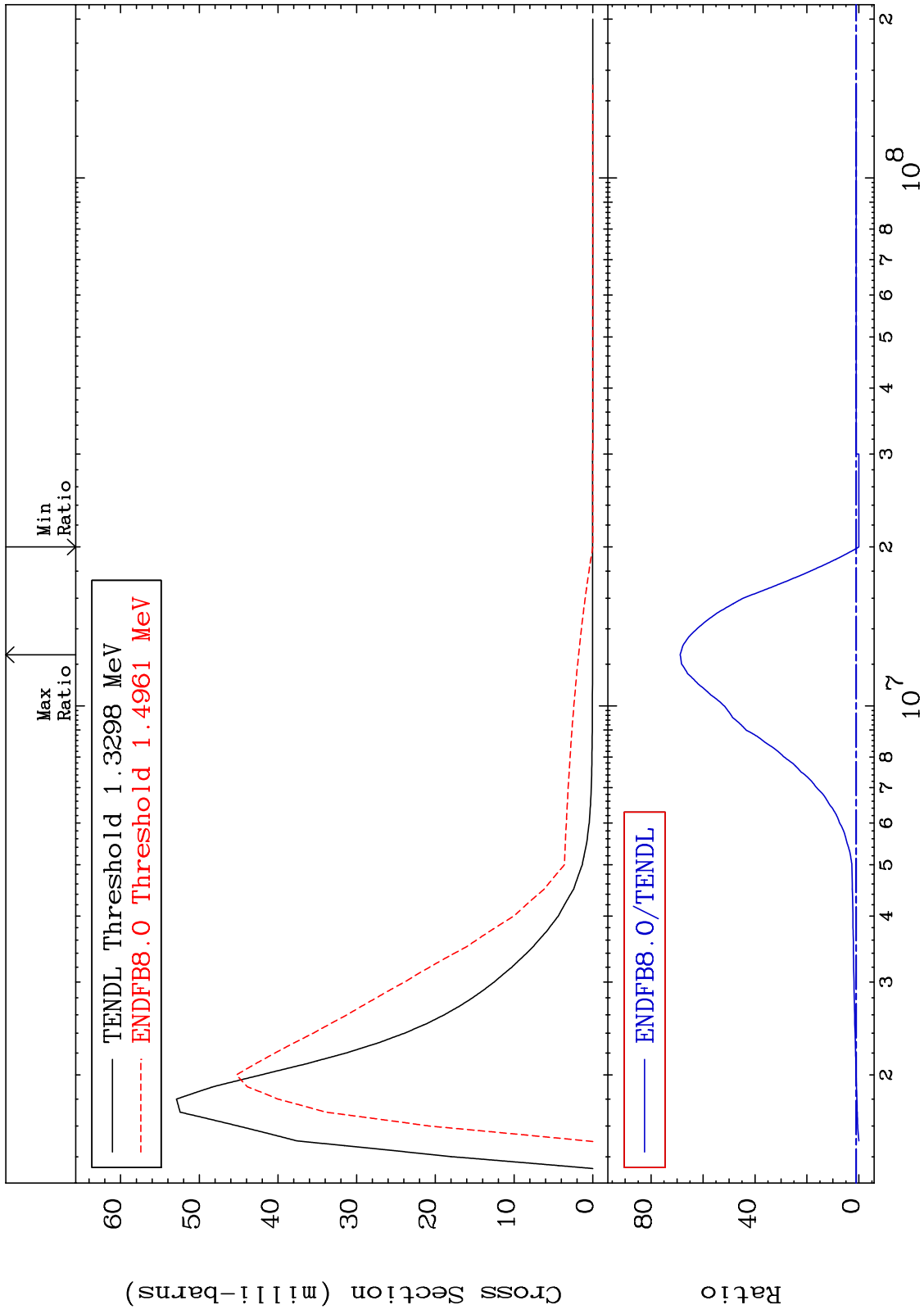




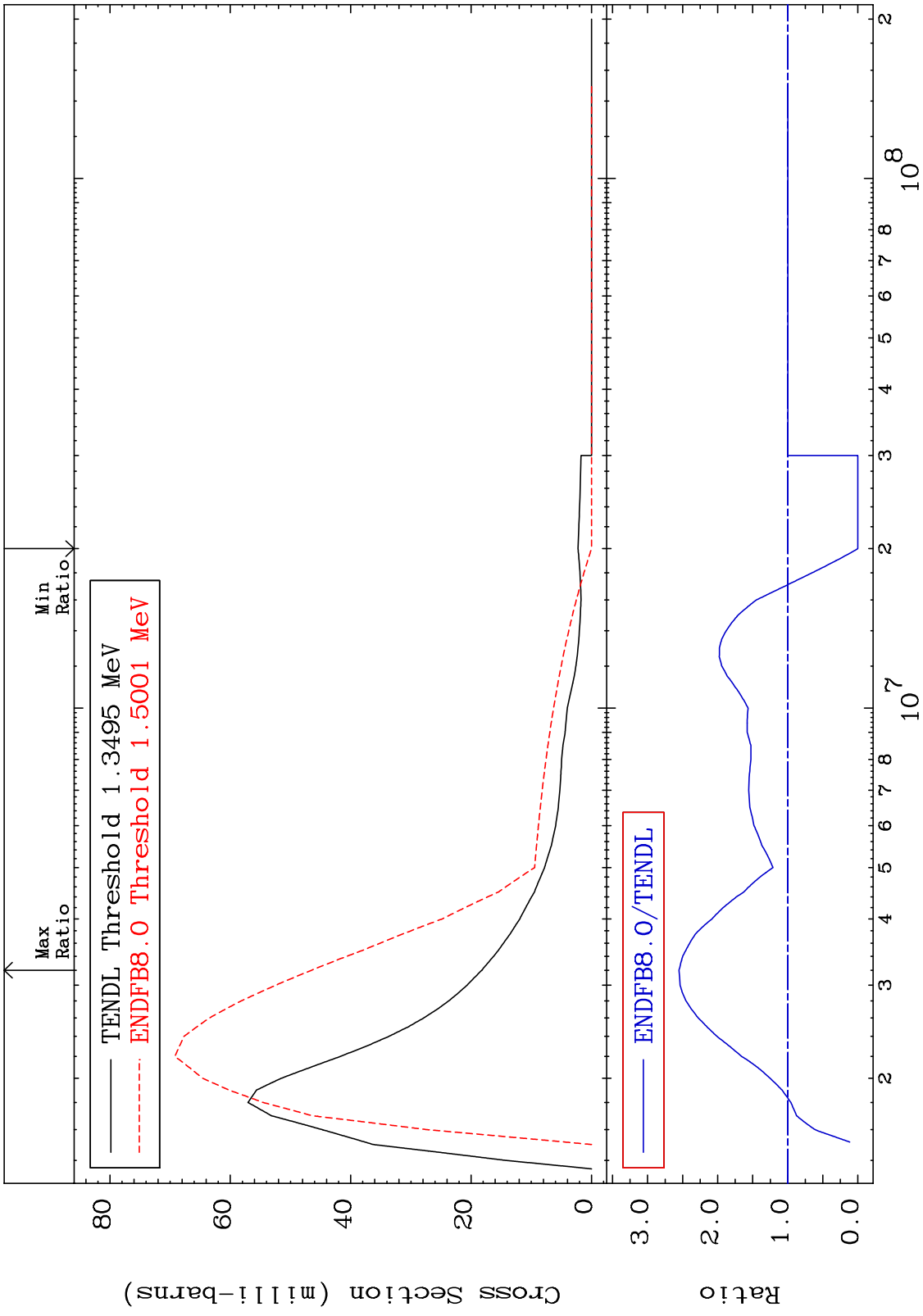
MAT 4125

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

41-Nb-93  
-100.0 To 6779. %



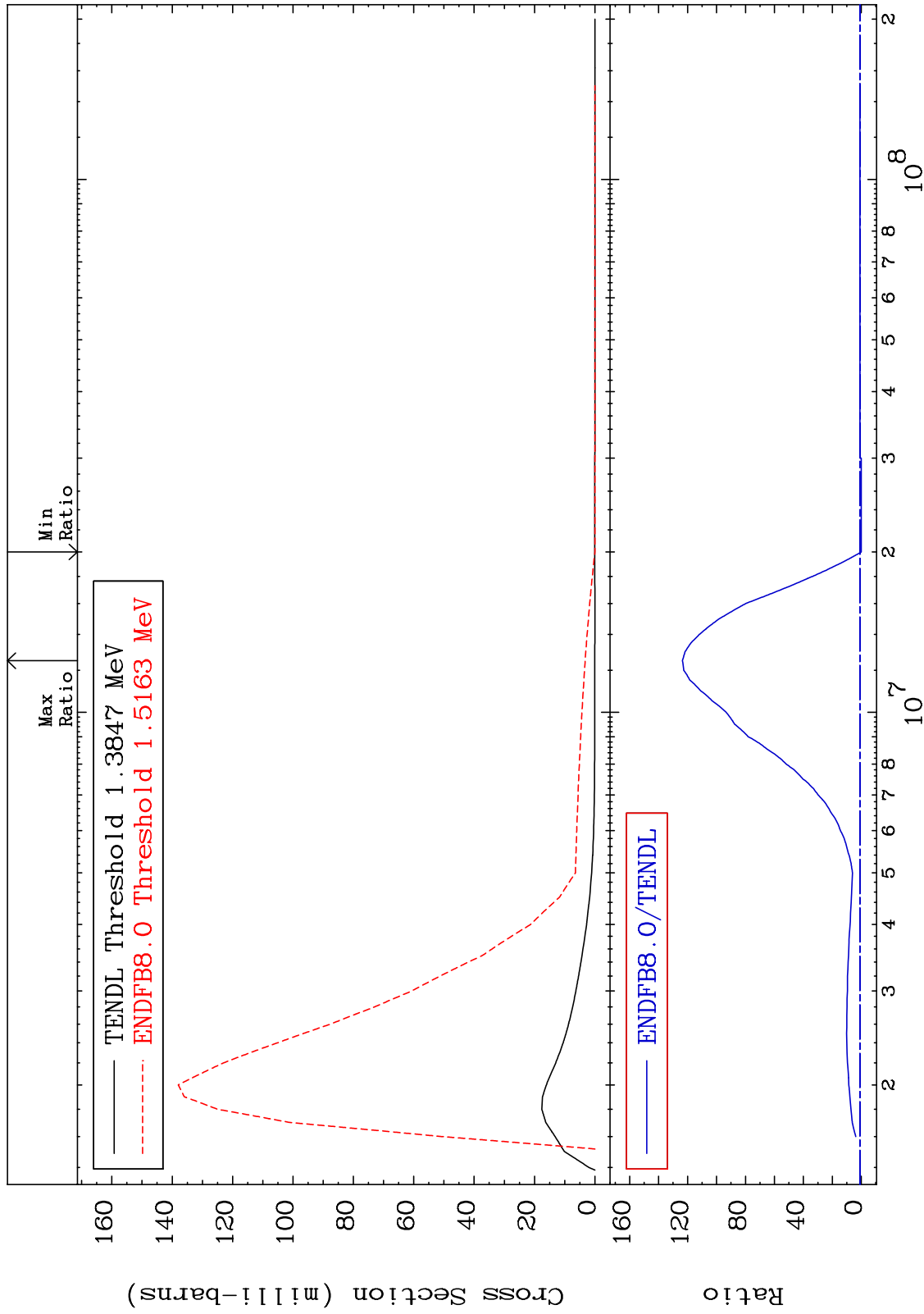
MAT 4125 MT= 65 (n,n') Level Cross Section -100.0 To 155.1 % 41-Nb-93



MAT 4125

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

41-Nb-93  
-100.0 To 9999. %

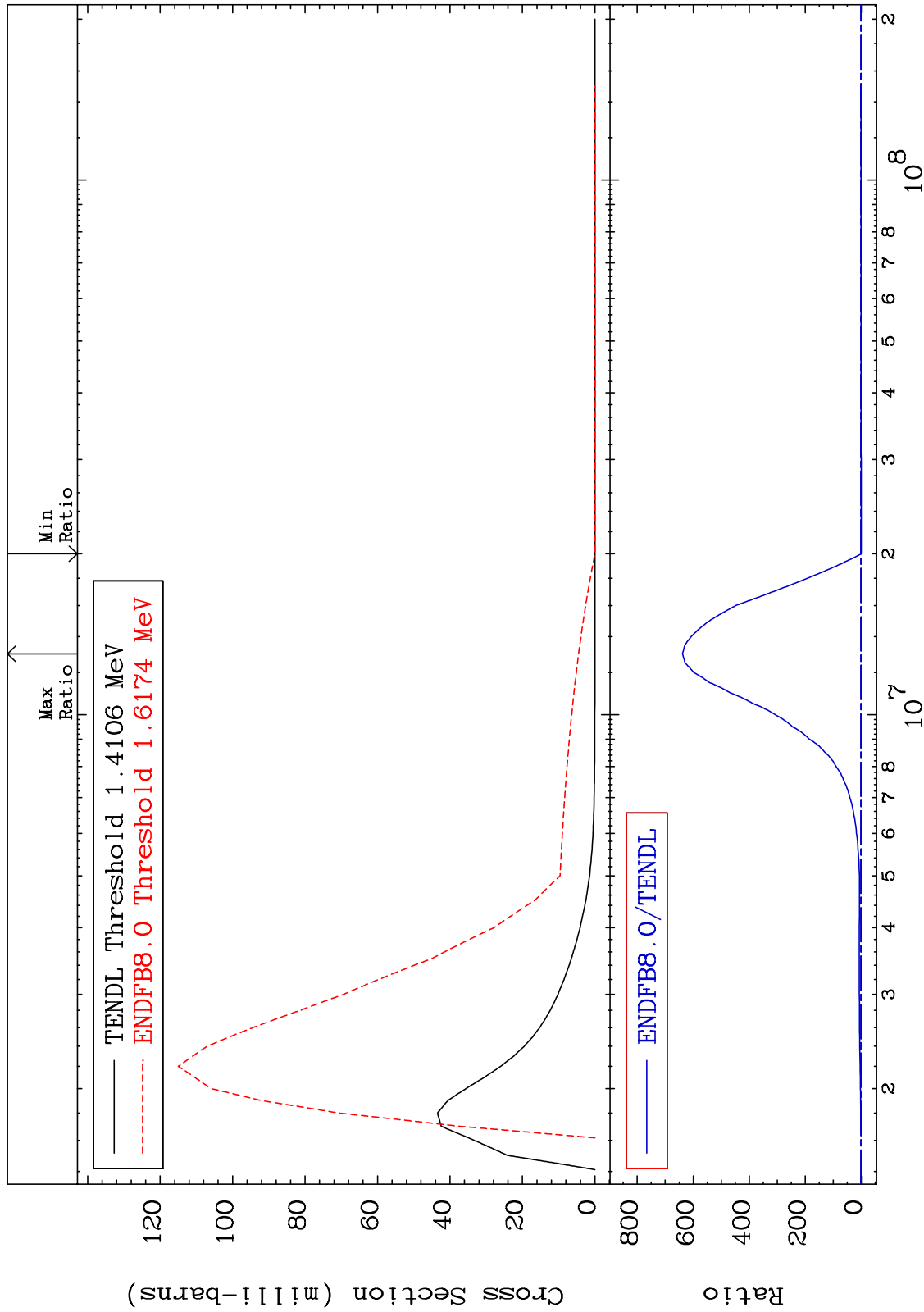


MAT 4125

MT= 67 (n,n') Level

41-Nb-93

-100.0 To 9999. %



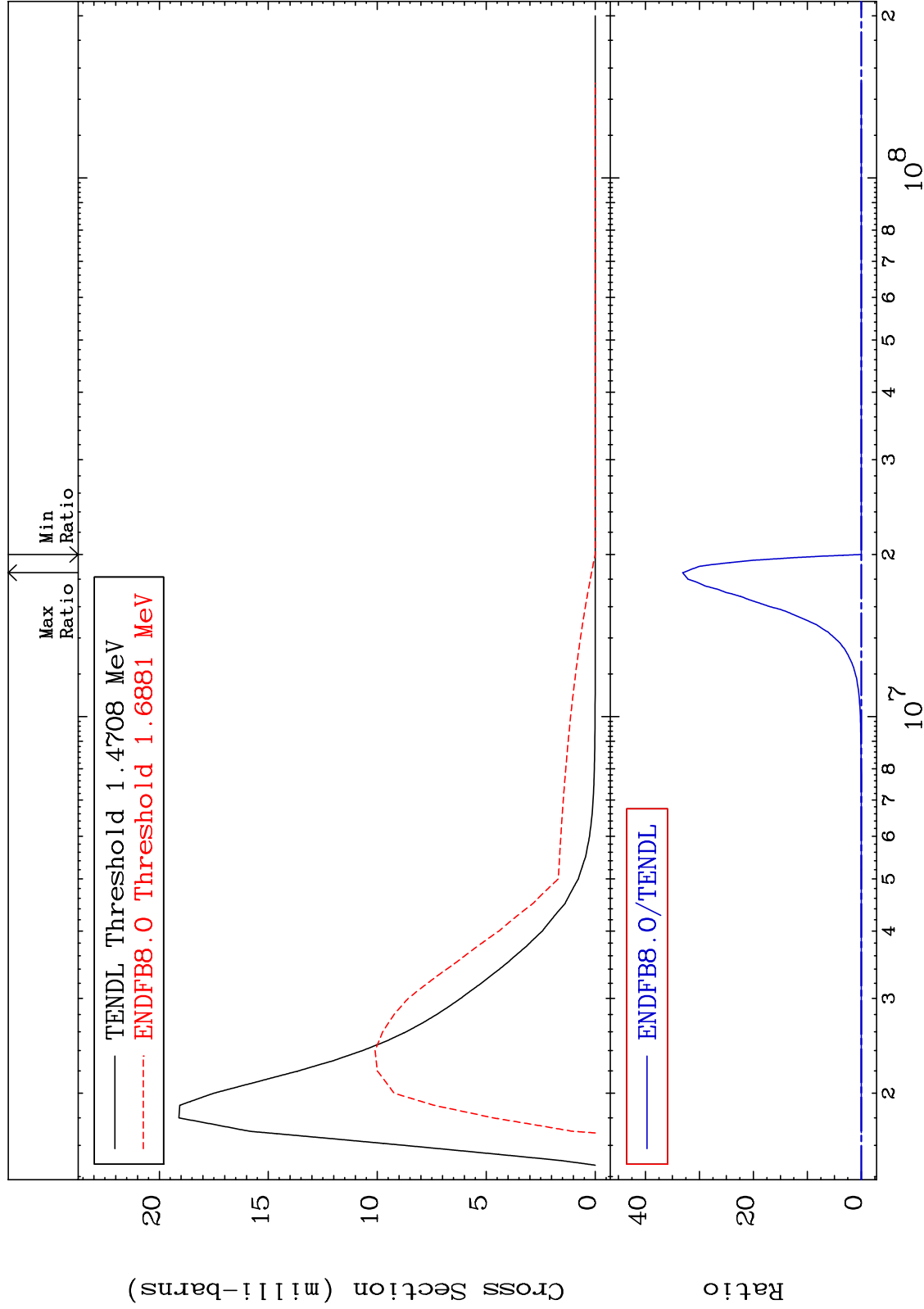
27

41-Nb-93

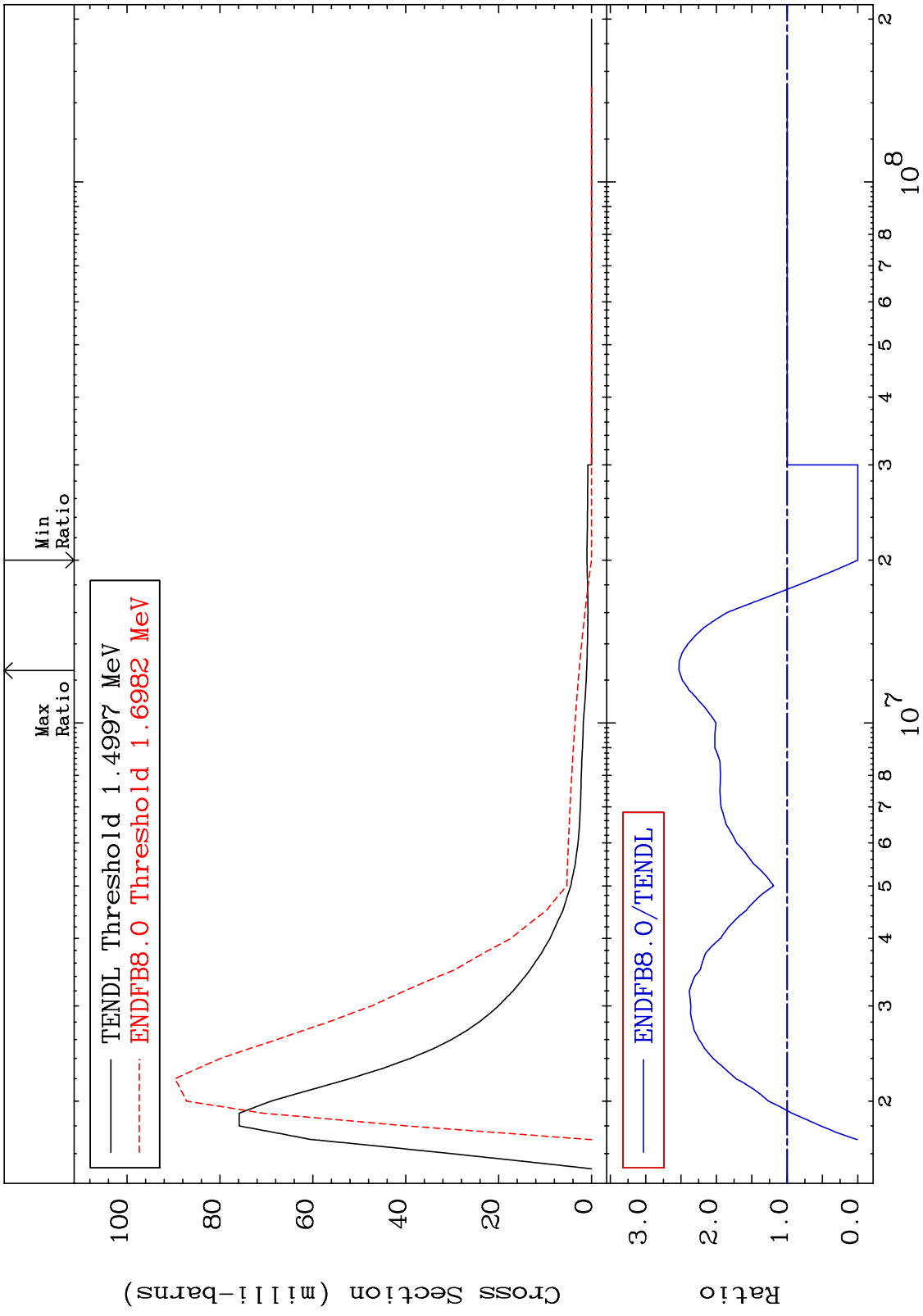
MAT 4125

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

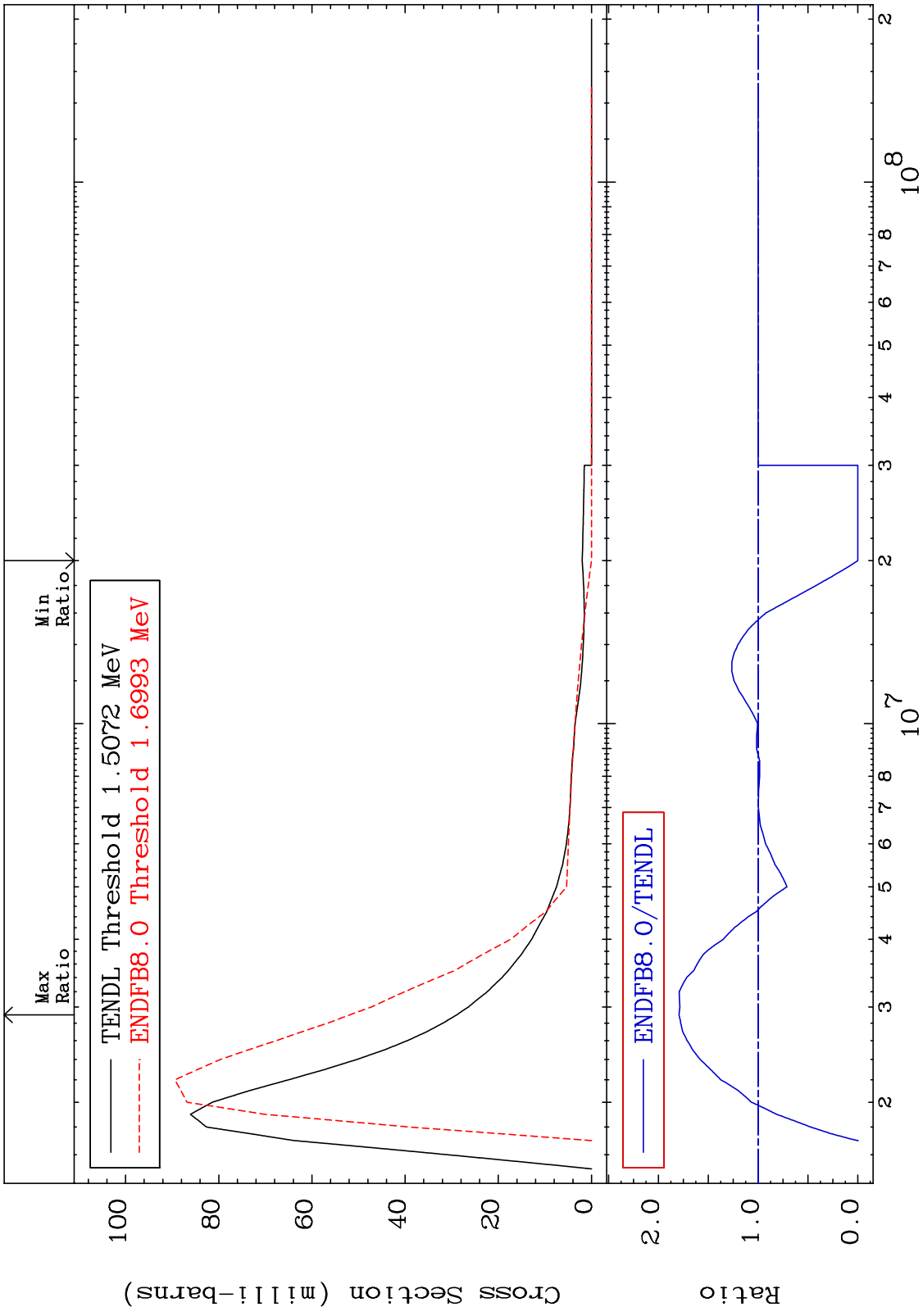
41-Nb-93  
-100.0 To 9999. %



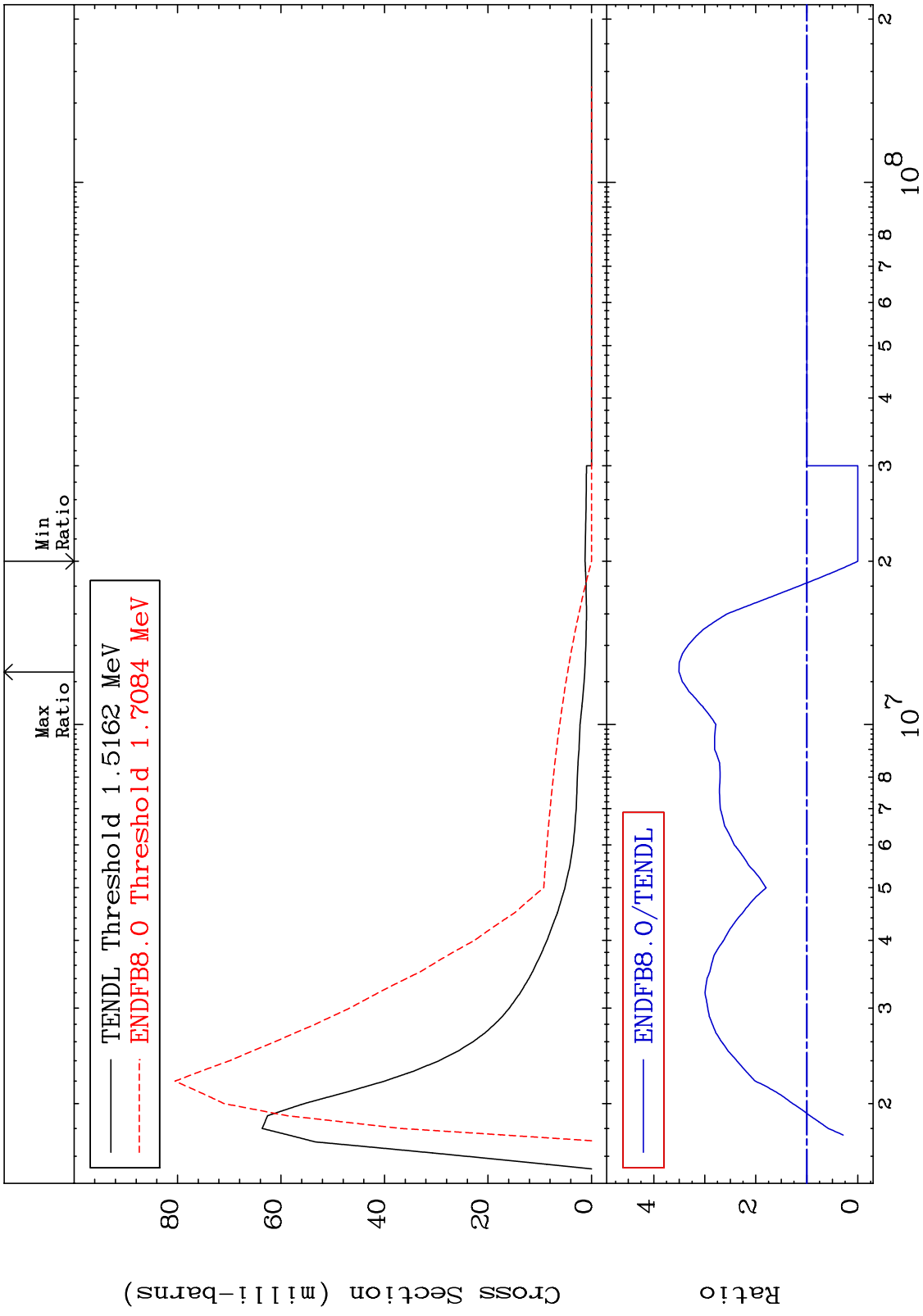
MAT 4125 MT= 69 (n,n') Level Cross Section -100.0 To 152.8 % 41-Nb-93



MAT 4125 MT= 70 (n,n') Level Cross Section -100.0 To 79.34 % 41-Nb-93

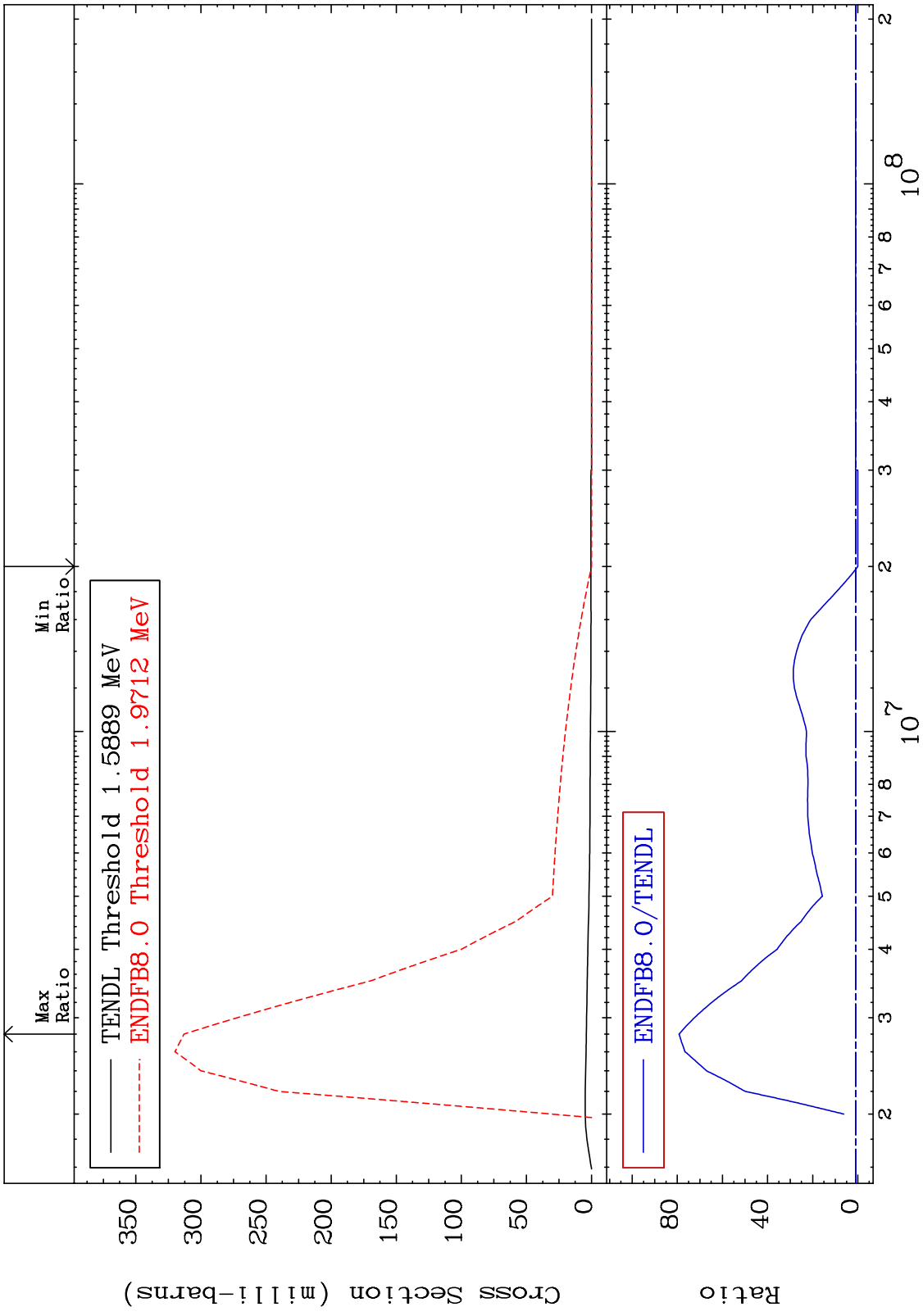


MAT 4125 MT= 71 (n,n') Level Cross Section -100.0 To 250.5 % 41-Nb-93

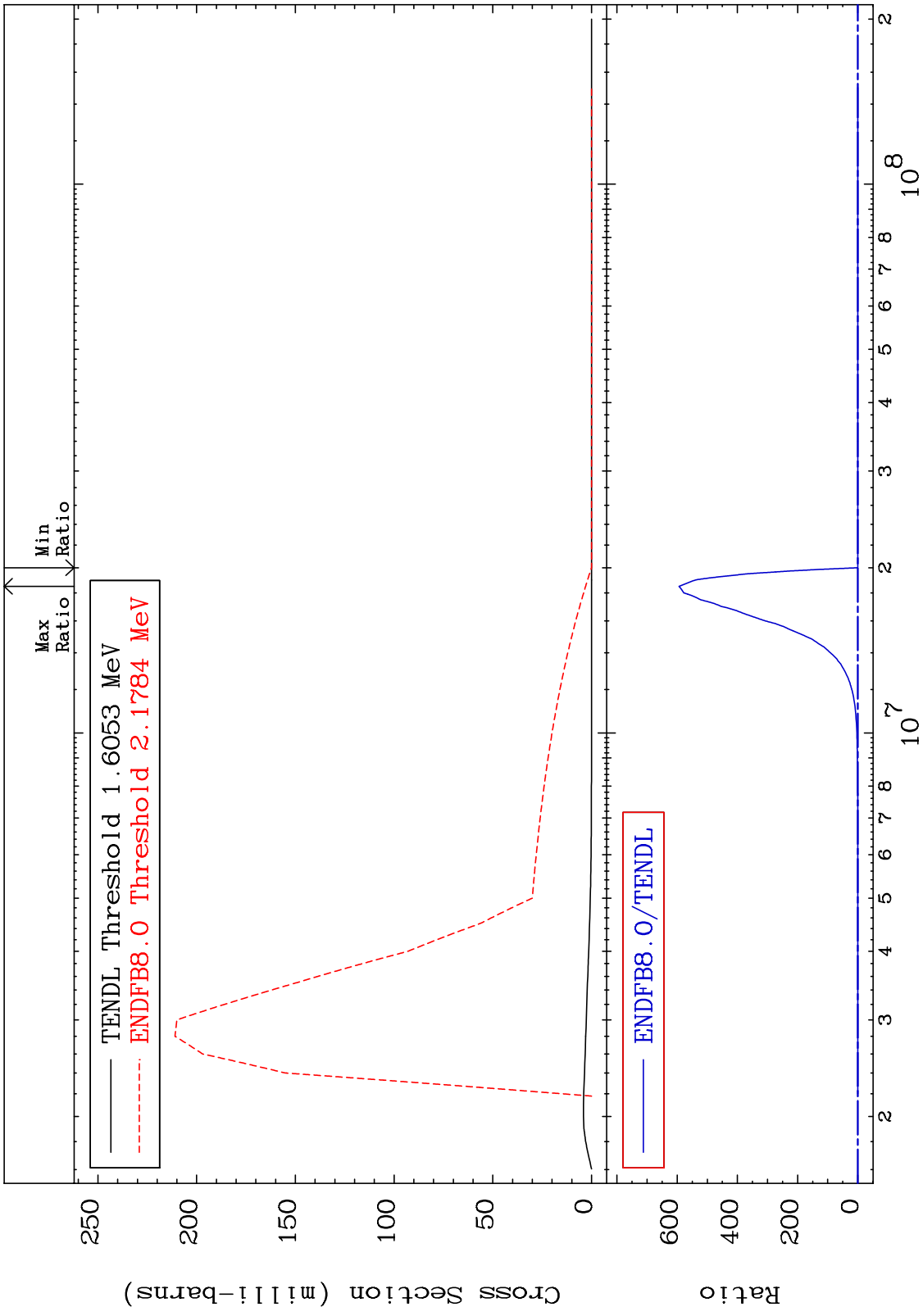




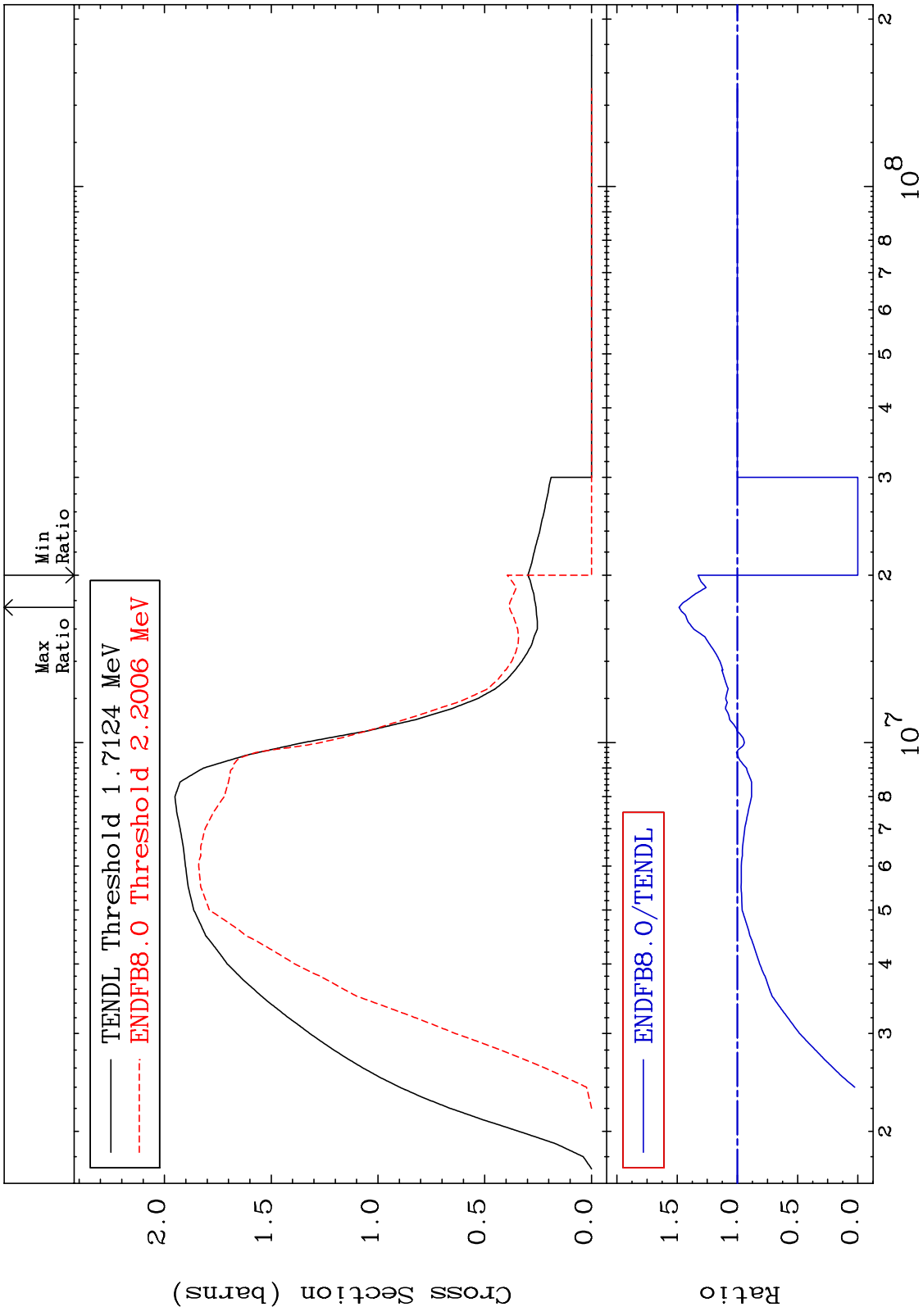
MAT 4125 MT= 72 (n,n') Level Cross Section -100.0 To 7824. % 41-Nb-93



MAT 4125 MT= 73 (n,n') Level Cross Section -100.0 To 9999. % 41-Nb-93



33 41-Nb-93



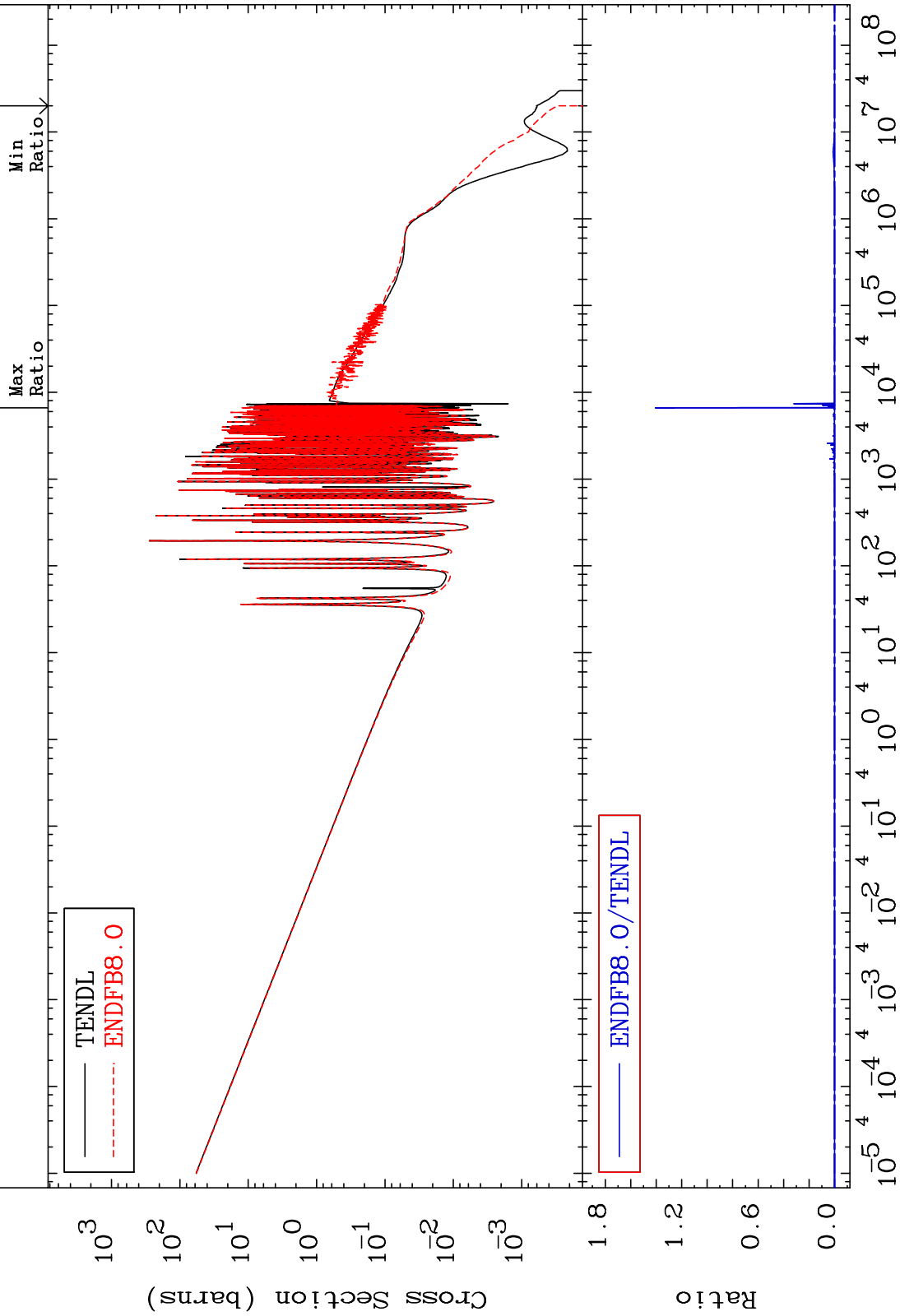
MAT 4125

(n,  $\gamma$ )

41-Nb-93

Cross Section

-100.0 To 9999. %



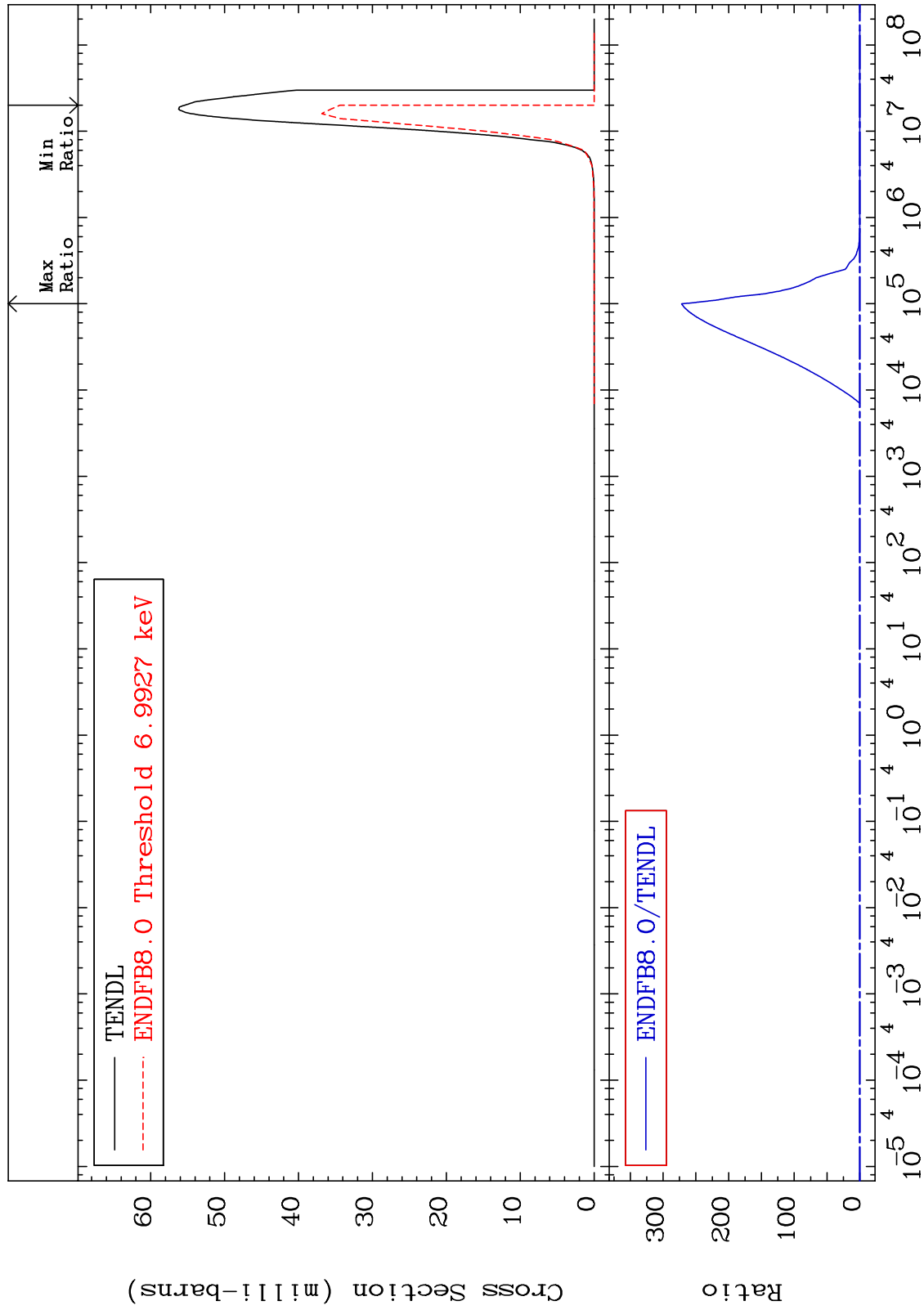
MAT 4125

(n,p)

41-Nb-93

Cross Section

-100.0 To 9999. %

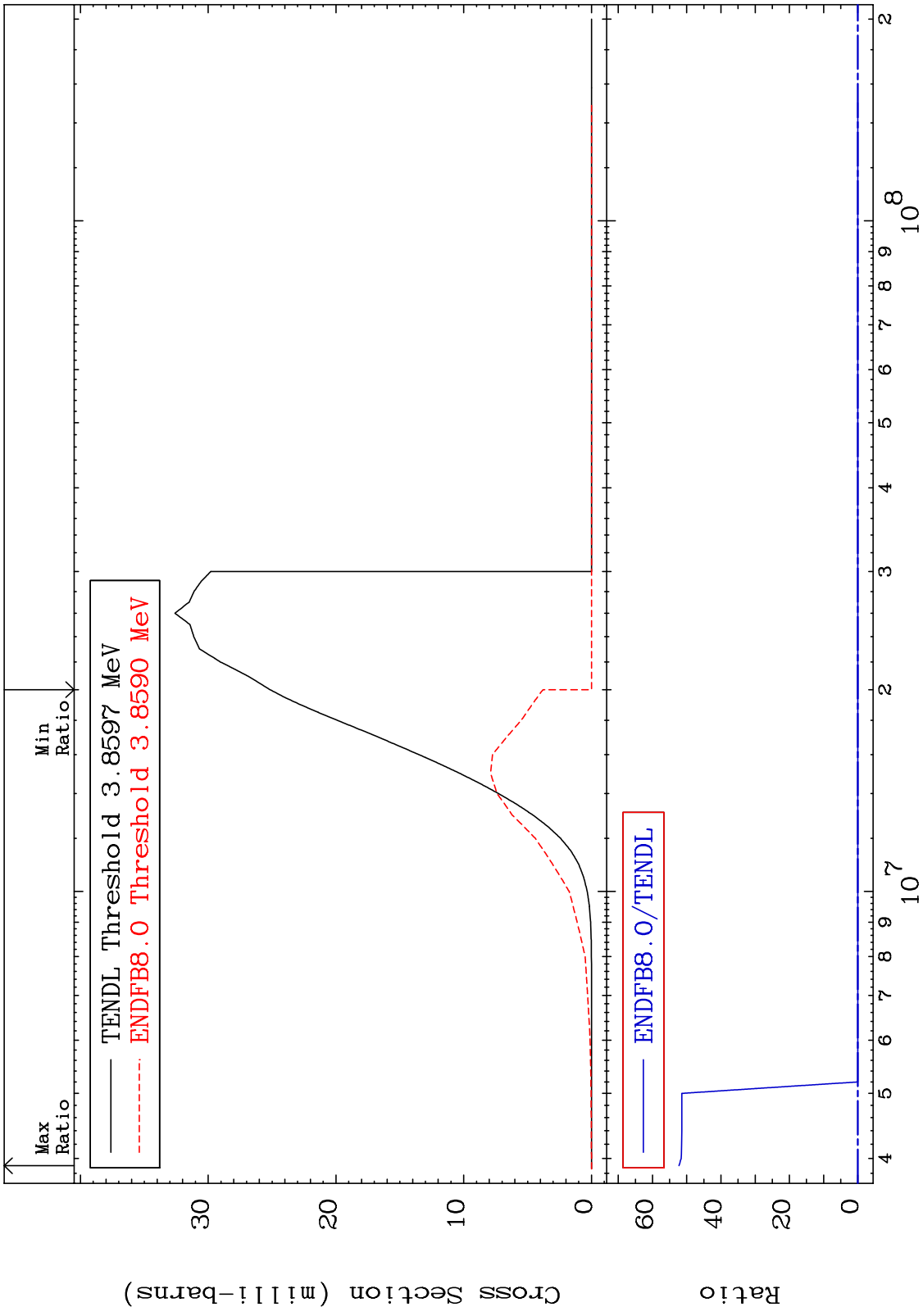


36

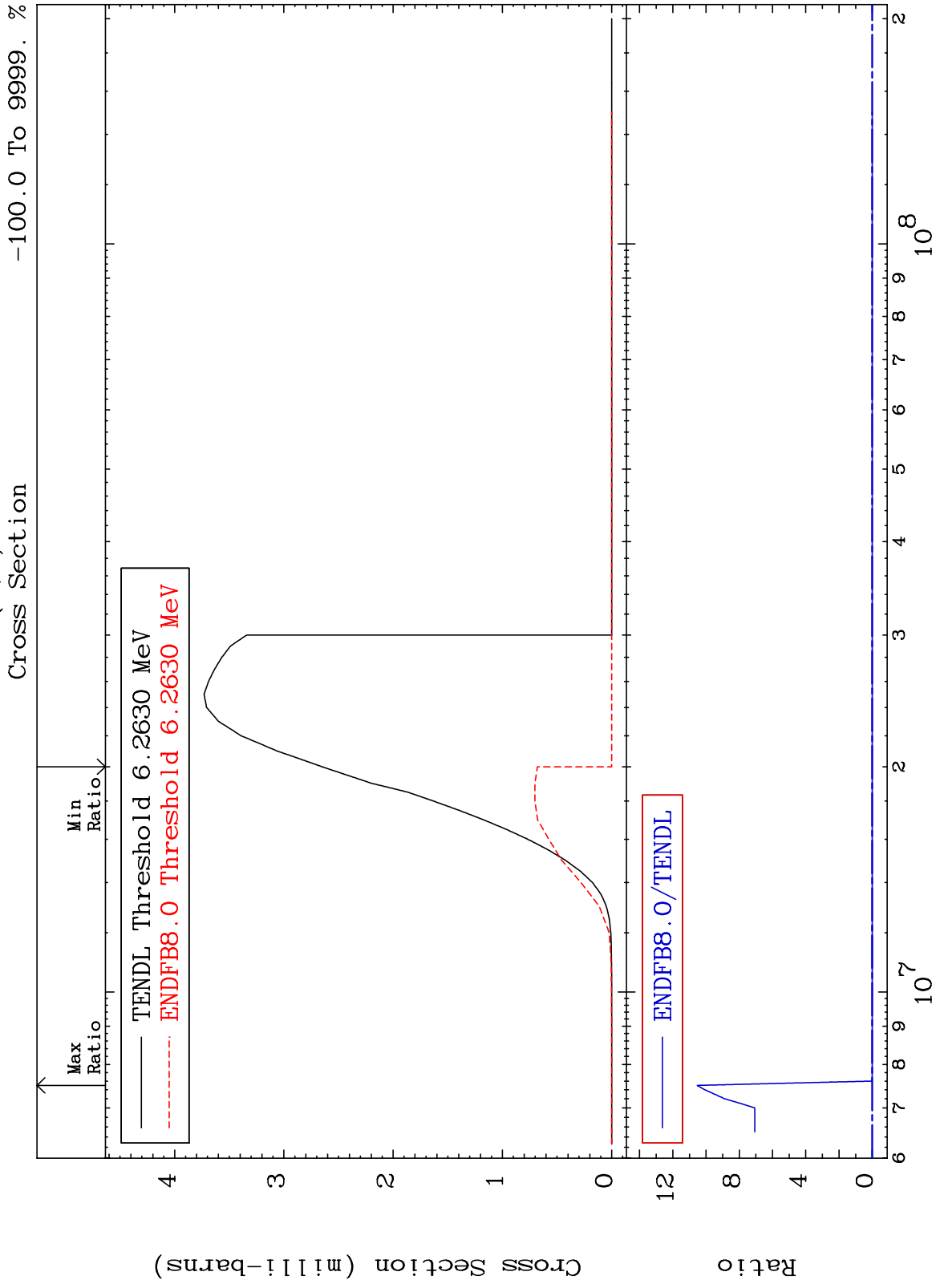
Incident Energy (eV)

41-Nb-93

MAT 4125 (n,d) Cross Section -100.0 To 9999. % 41-Nb-93



MAT 4125 (n,t) 41-Nb-93 -100.0 To 9999. %



41-Nb-93

Incident Energy (eV)

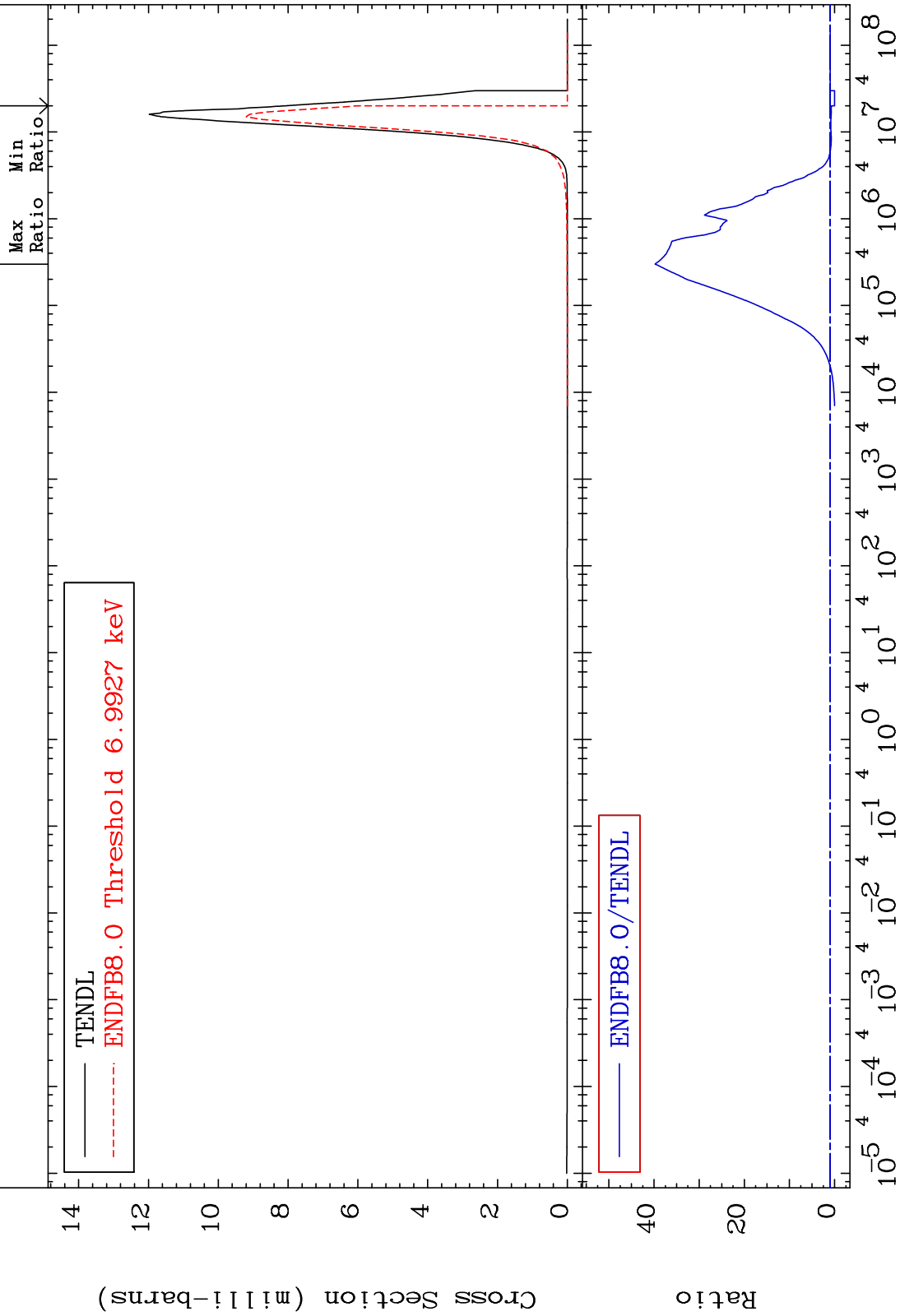
MAT 4125

(n,  $\alpha$ )

41-Nb-93

Cross Section

-100.0 To 3875. %

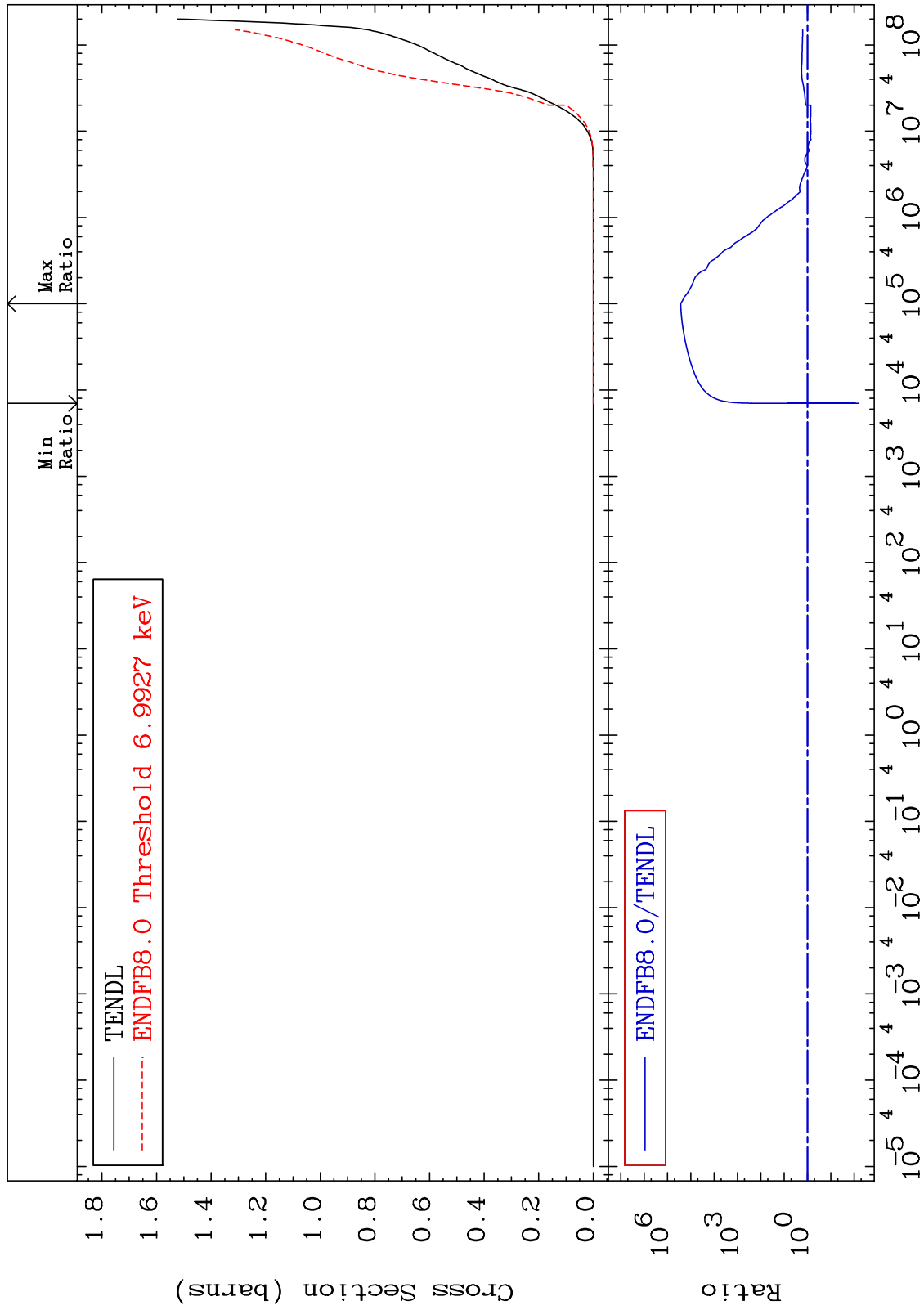




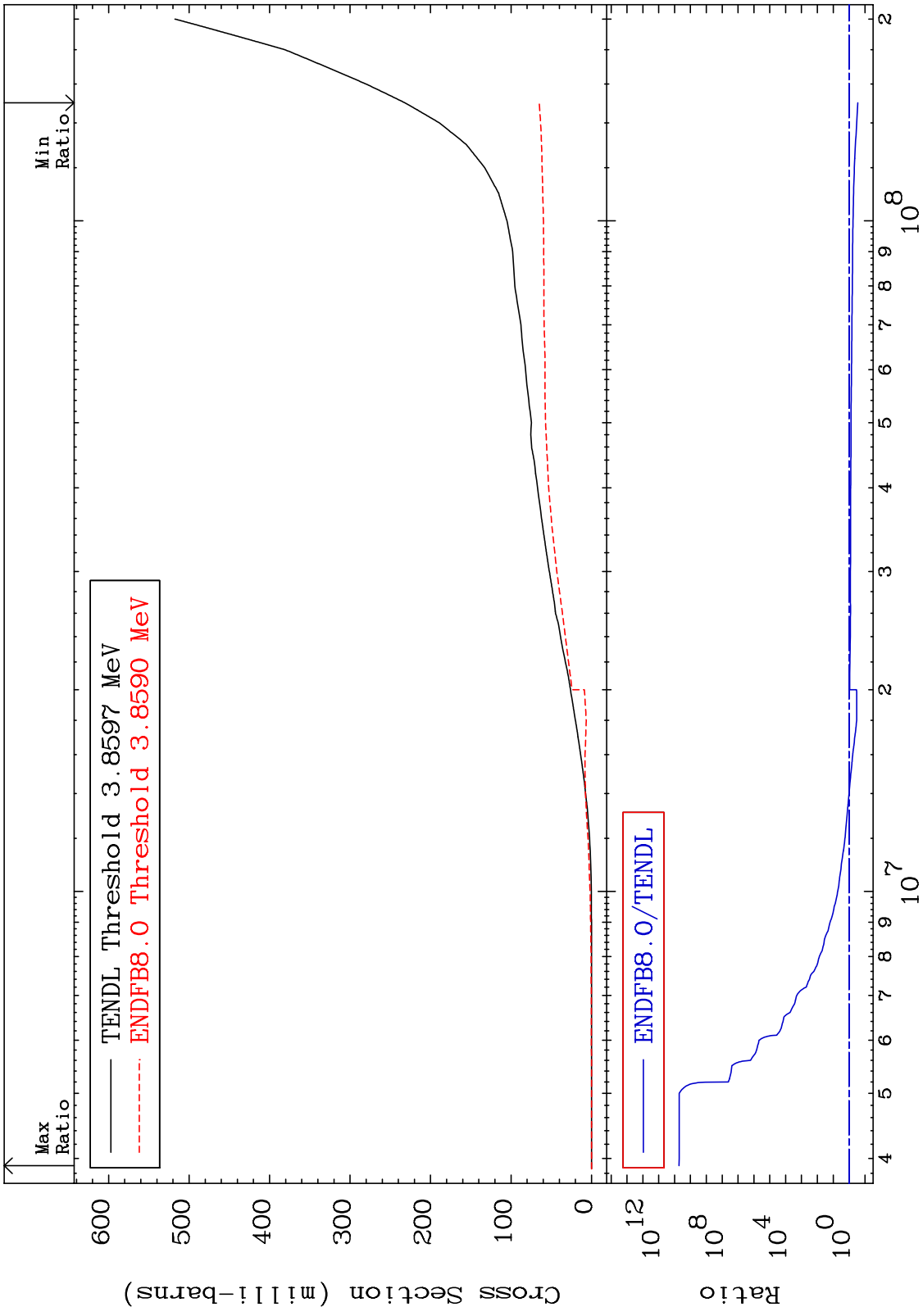
MAT 4125

### Hydrogen Production Cross Section

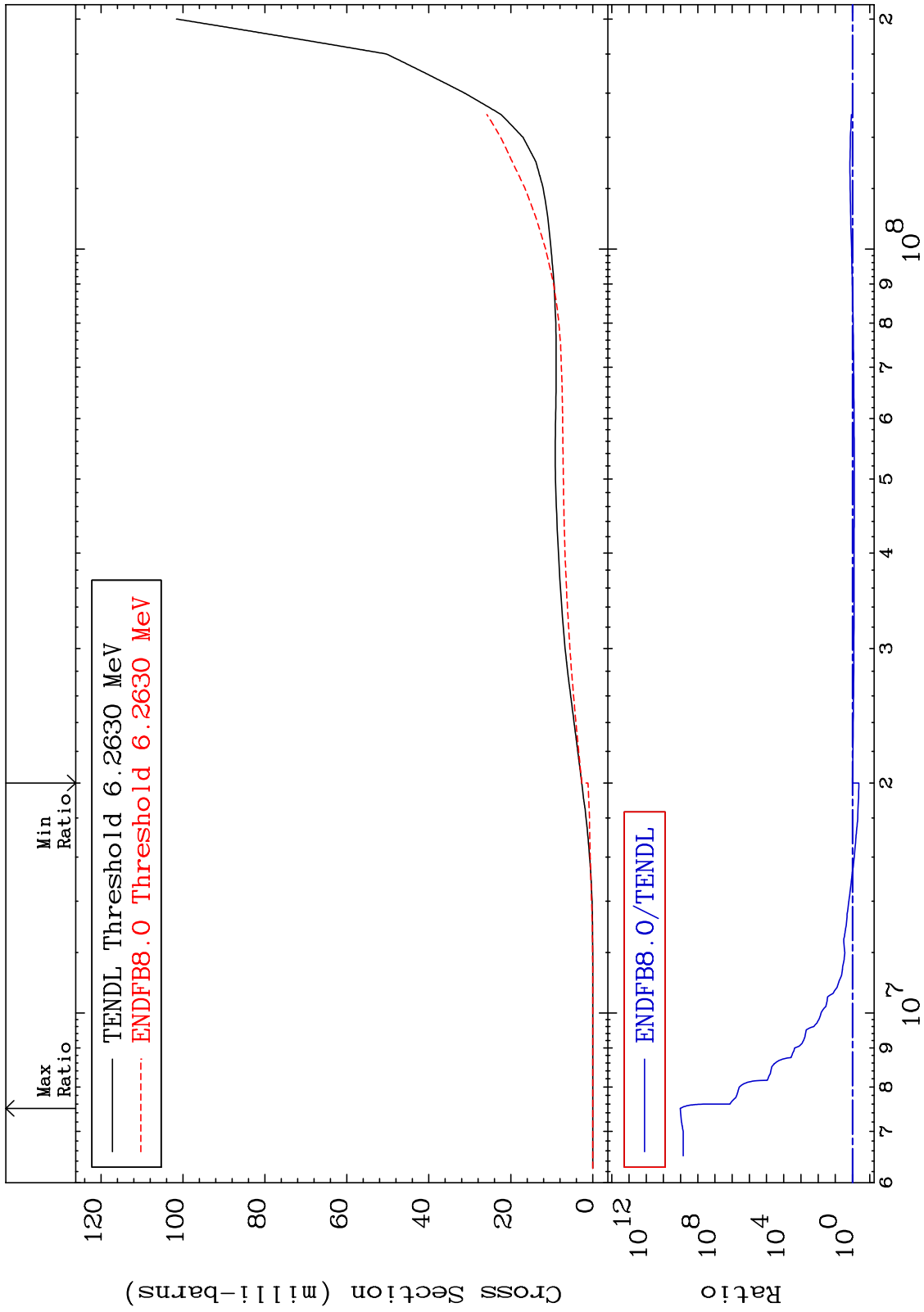
41-Nb-93  
-99.39 To 9999. %



MAT 4125 Deuterium Production Cross Section 41-Nb-93  
 -71.91 To 9999. %



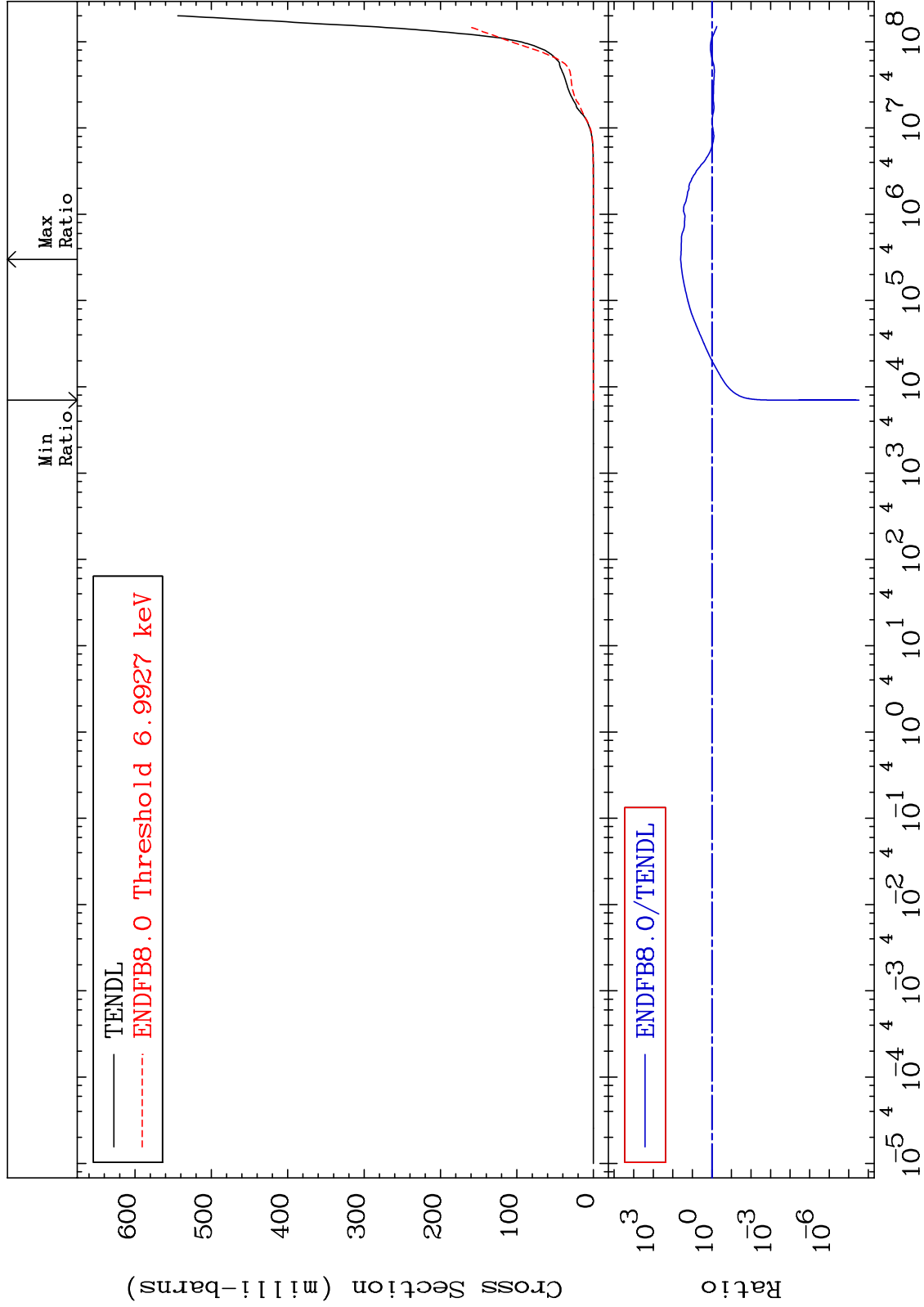
41 41-Nb-93



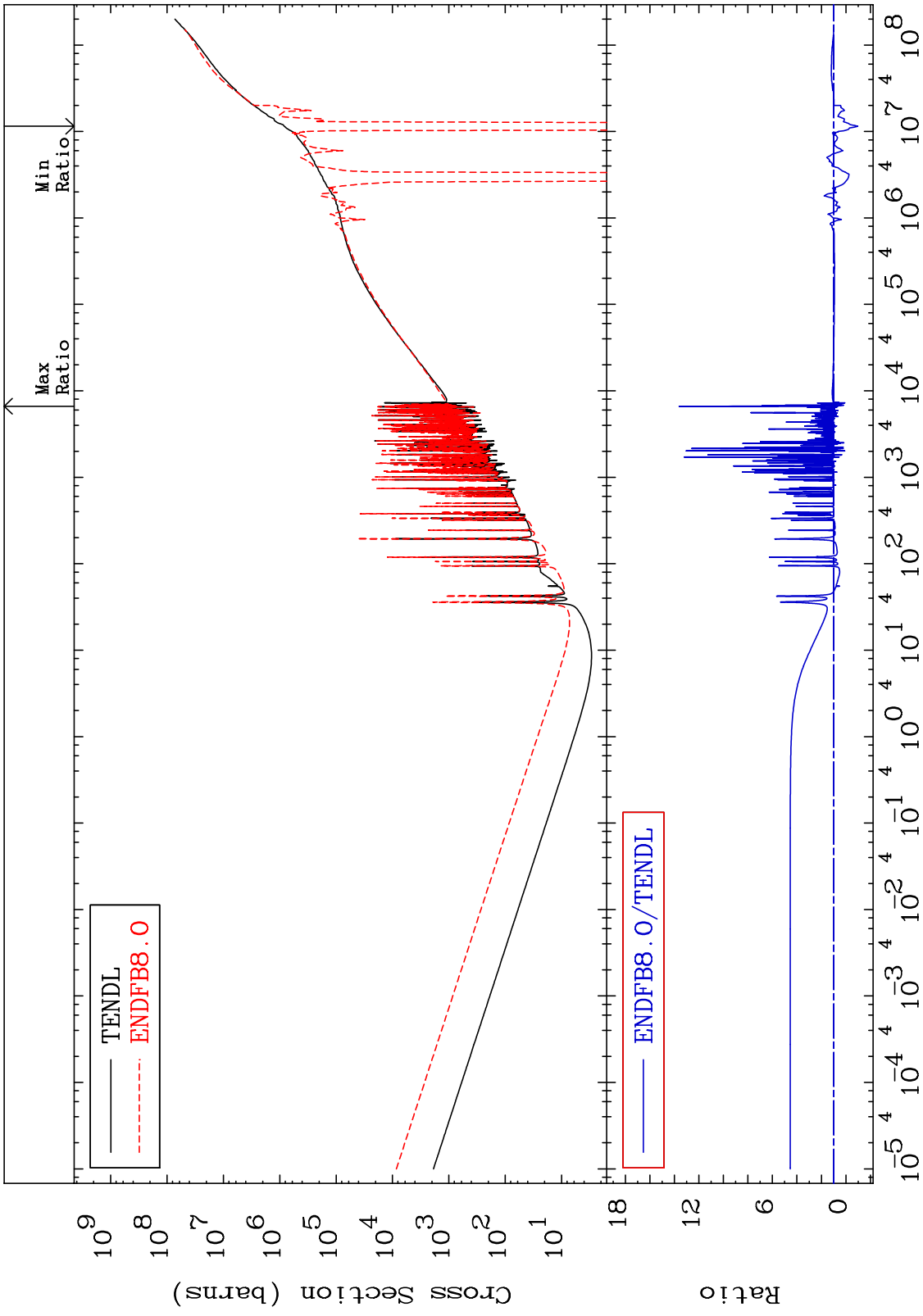
MAT 4125

He-4 Production  
Cross Section

41-Nb-93  
-100.0 To 3875. %



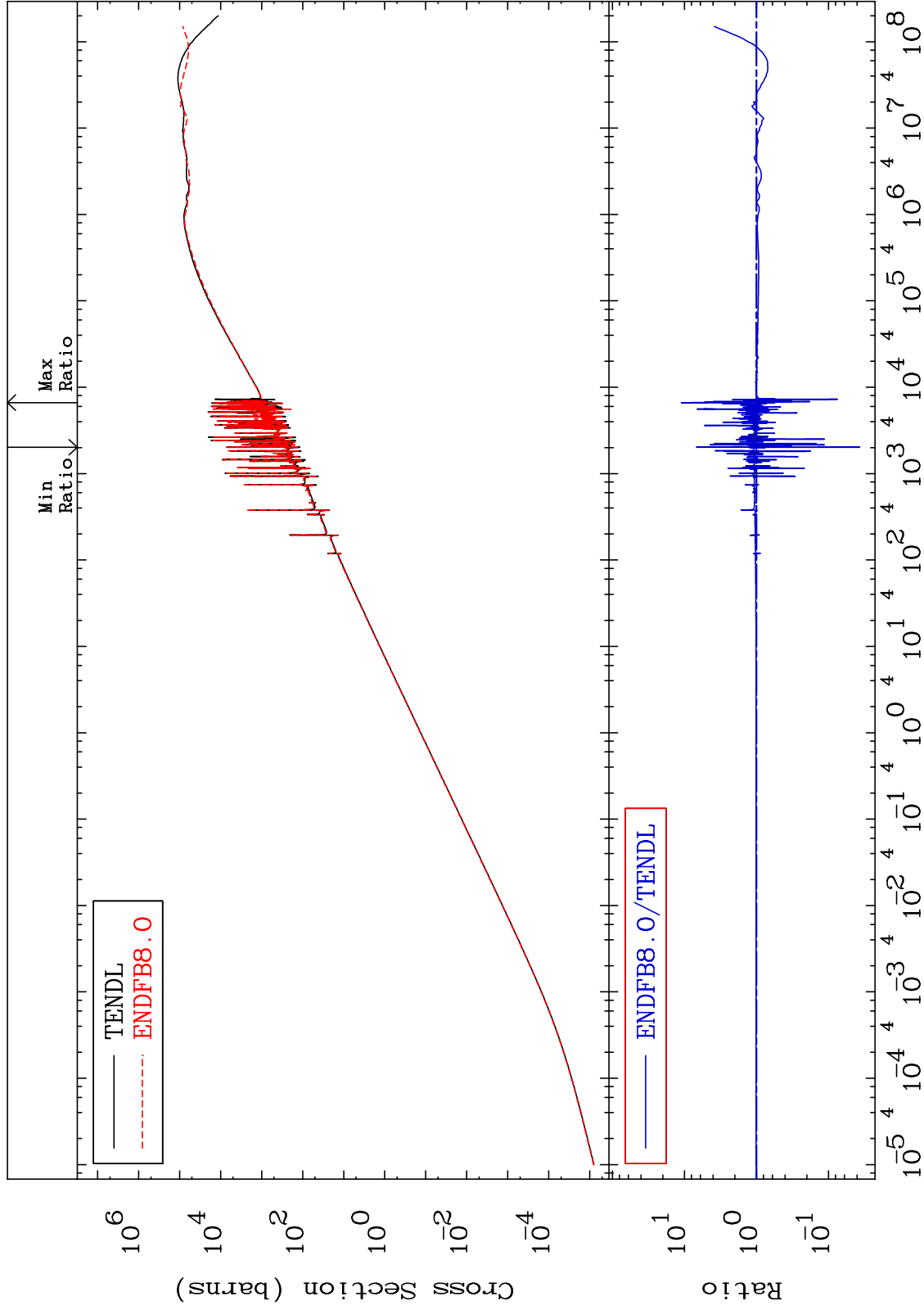
MAT 4125      Kerma total (eV-barns)  
 Cross Section      41-Nb-93  
 -197.3 To 1262. %



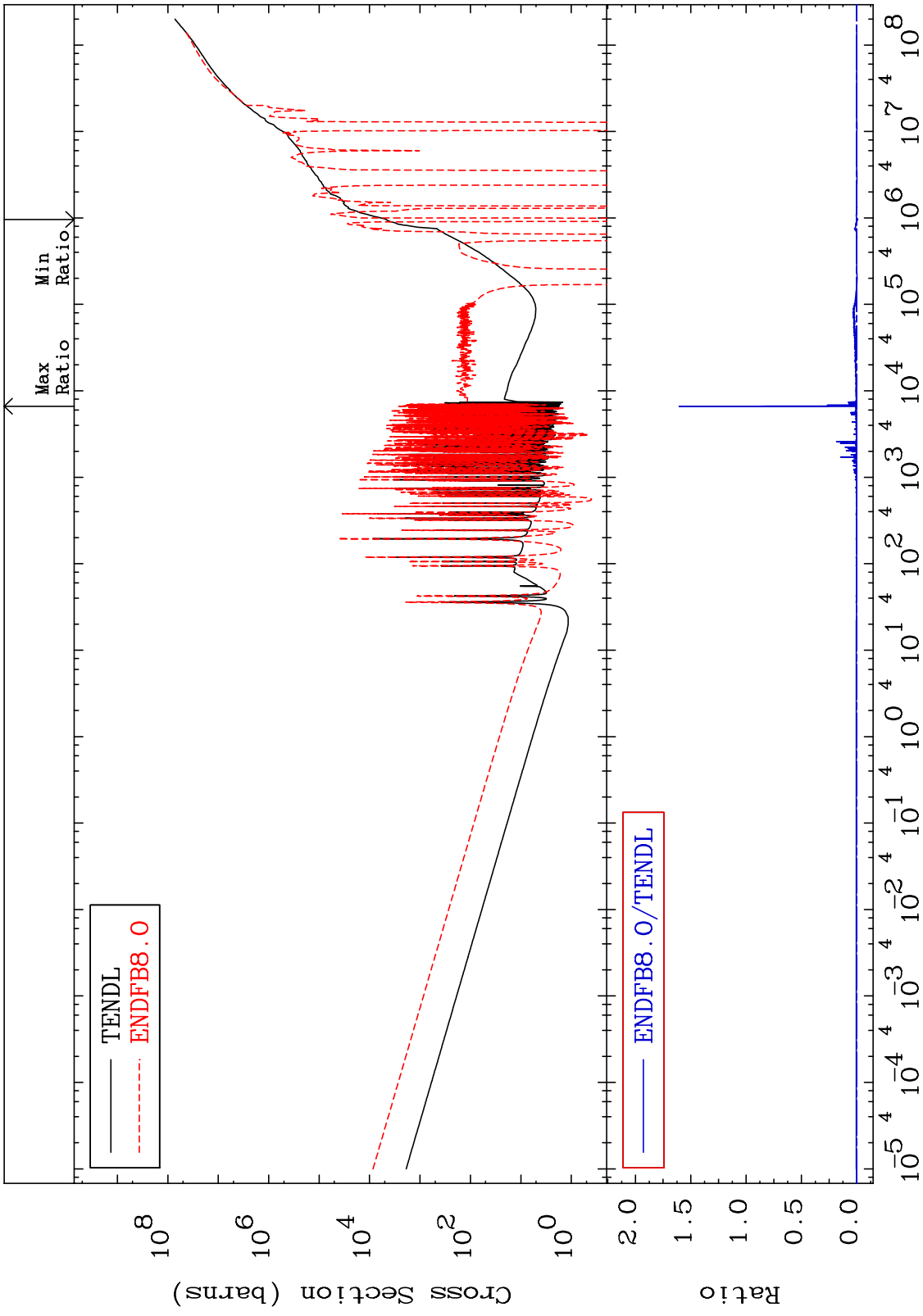
MAT 4125

Kerma elastic  
Cross Section

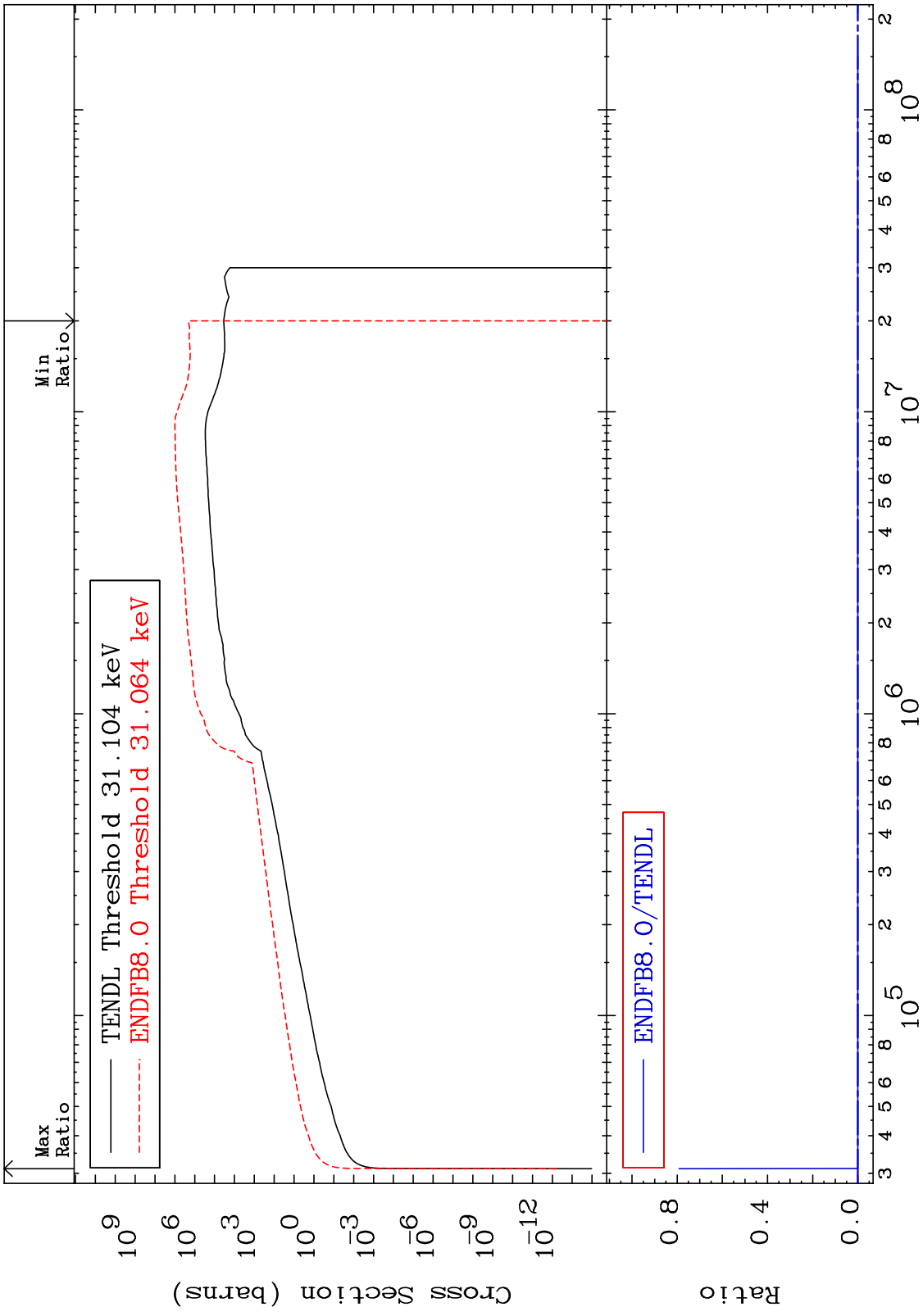
41-Nb-93  
-96.32 To 1007. %



MAT 4125      Kerma non-elastic (all but mt.2)      41-Nb-93  
 Cross Section      -1055. To 9999. %



MAT 4125 Kerma inelastic (mt51-91) 41-Nb-93  
 Cross Section -100.0 To 9999. %

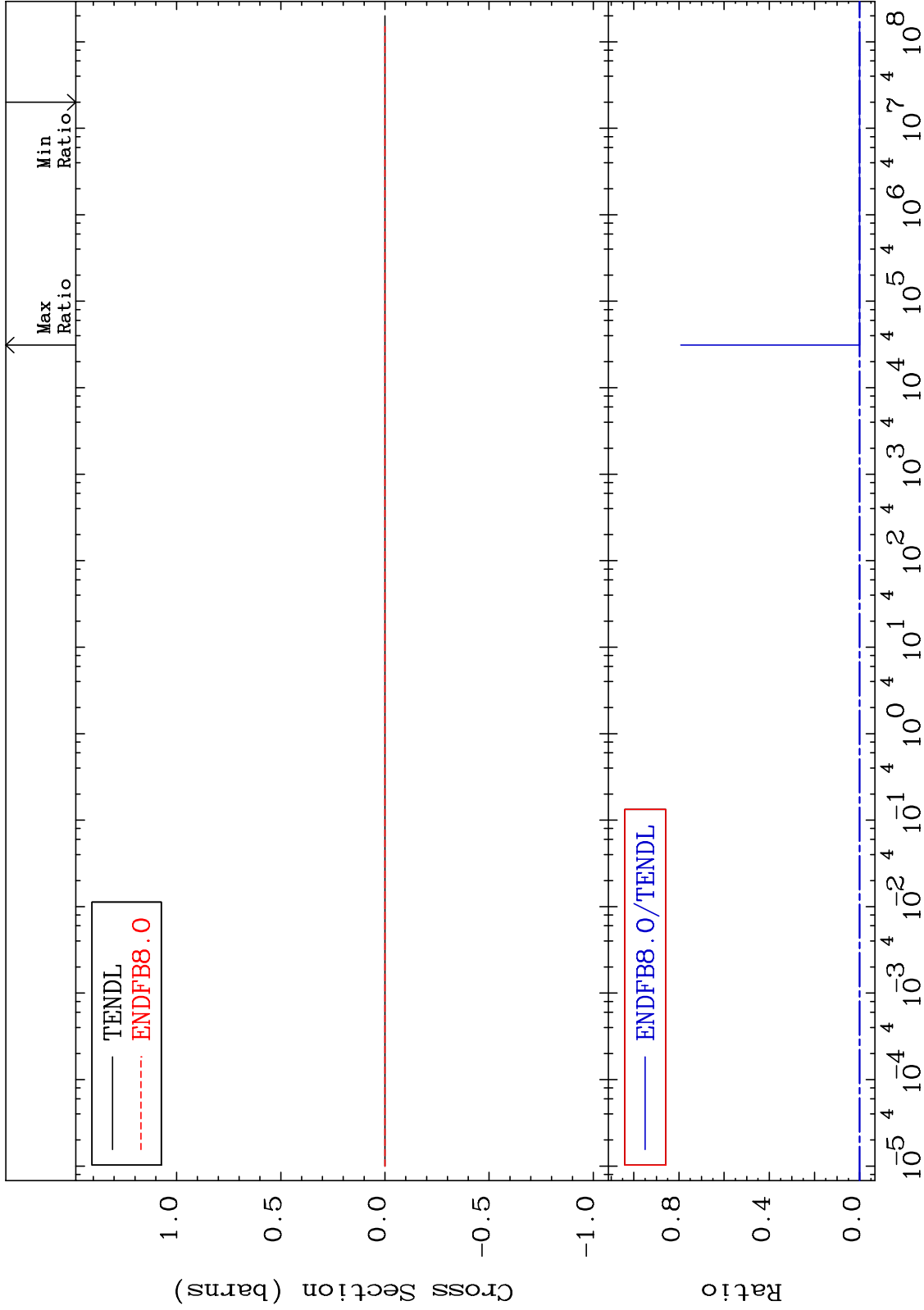




MAT 4125

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

41-Nb-93  
-100.0 To 9999. %



48

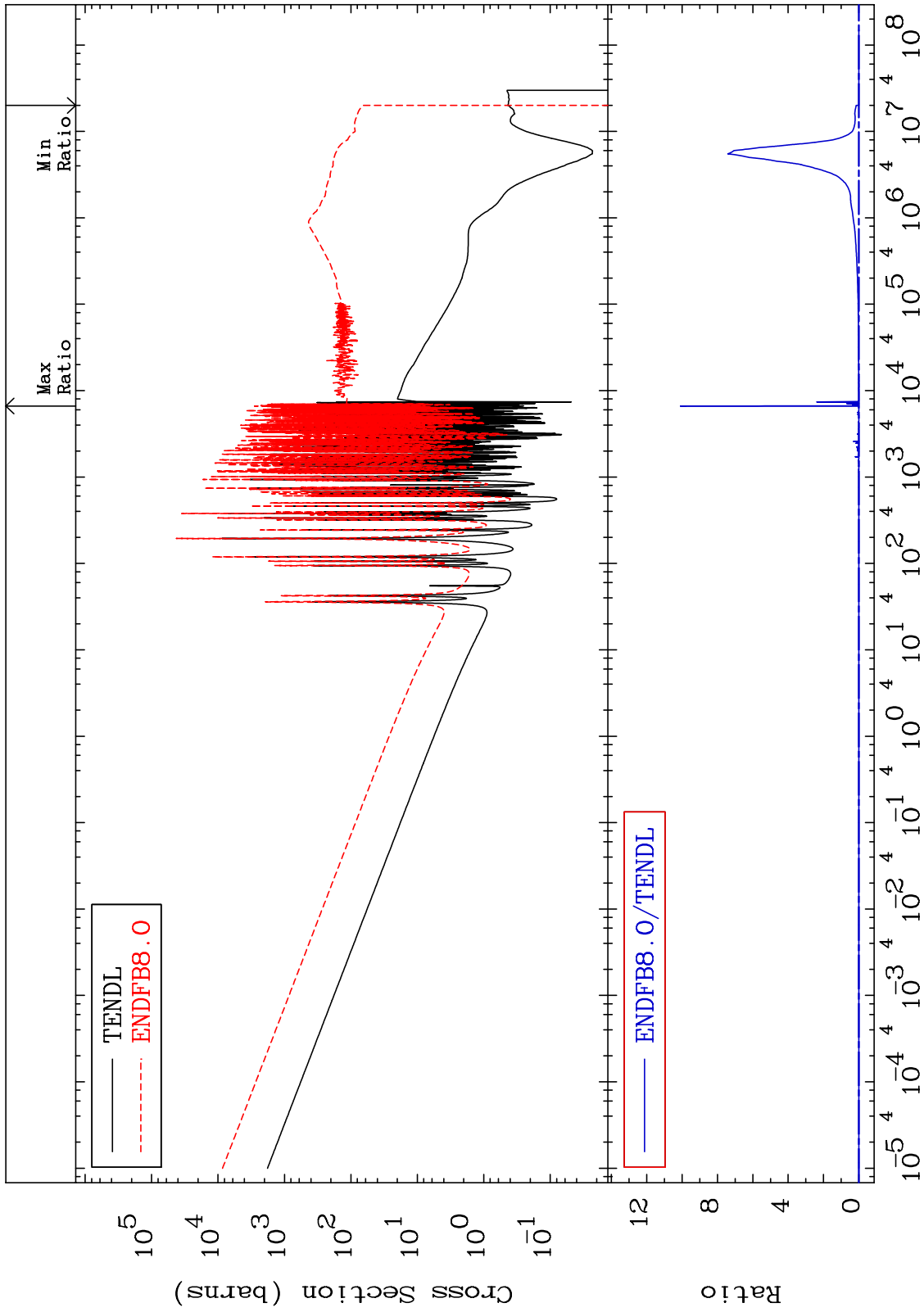
Incident Energy (eV)

41-Nb-93

MAT 4125

Kerma capture (mt102)  
Cross Section

41-Nb-93  
-100.0 To 9999. %



49

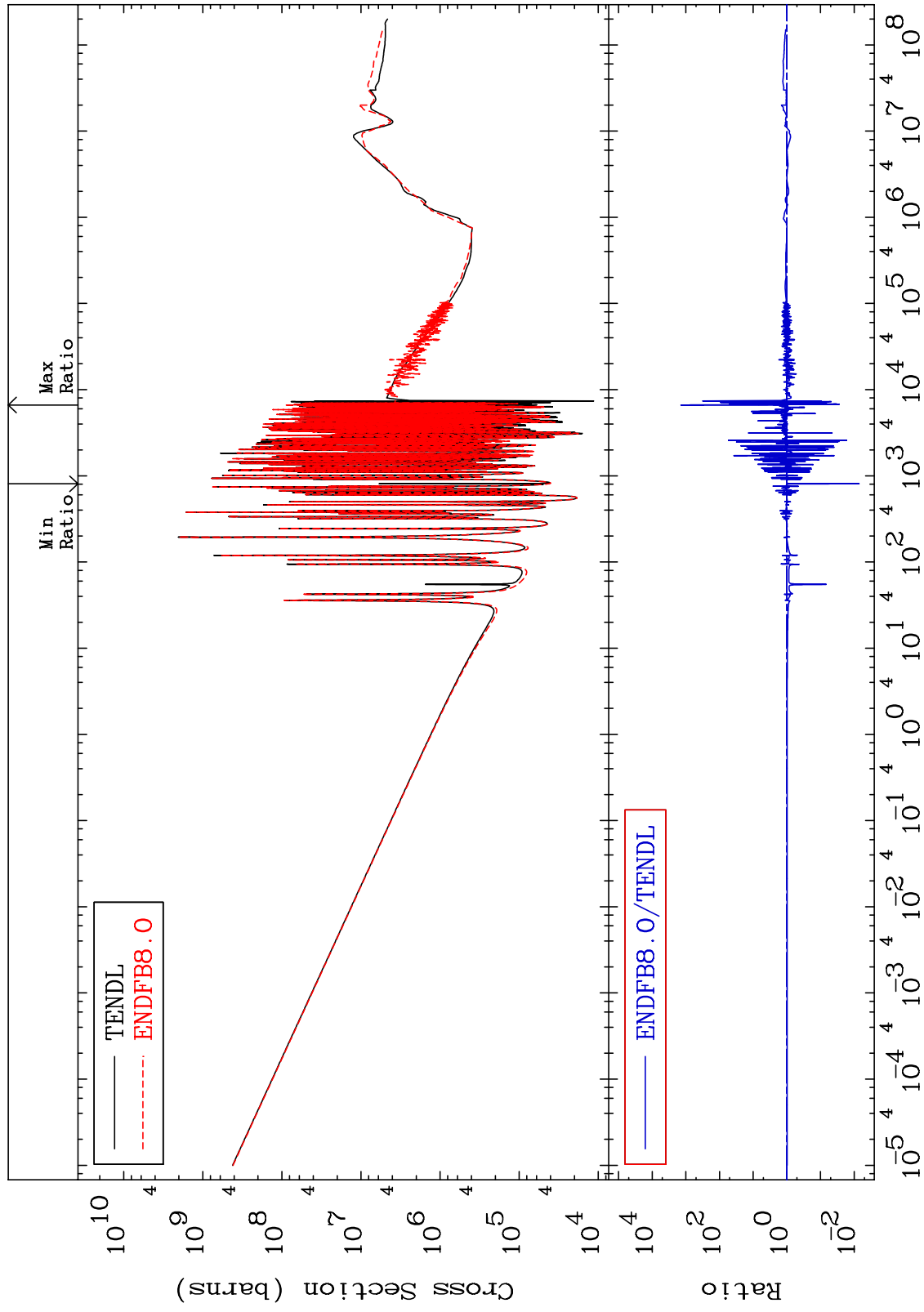
Incident Energy (eV)

41-Nb-93

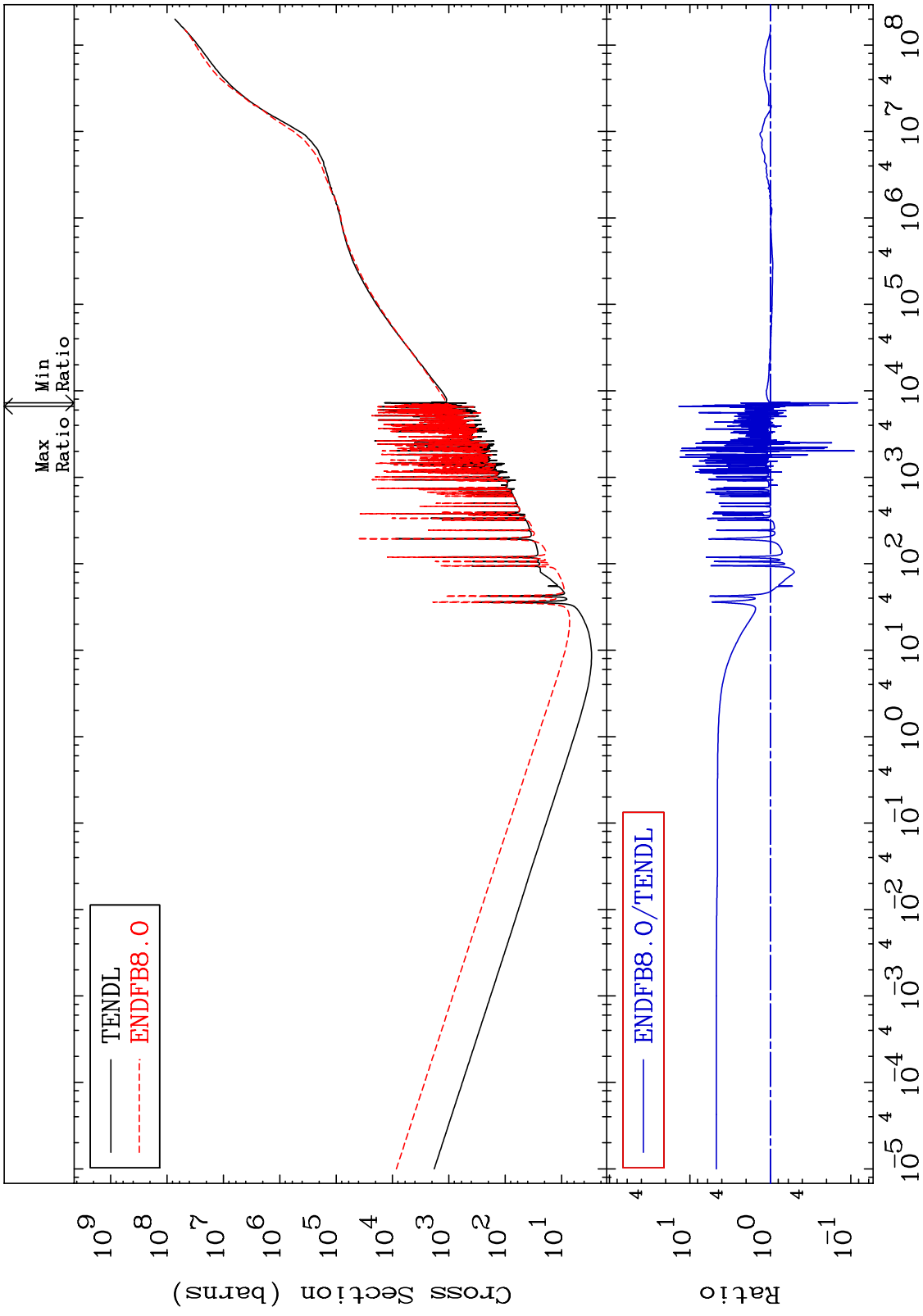
MAT 4125

Total photon (eV-barns)  
Cross Section

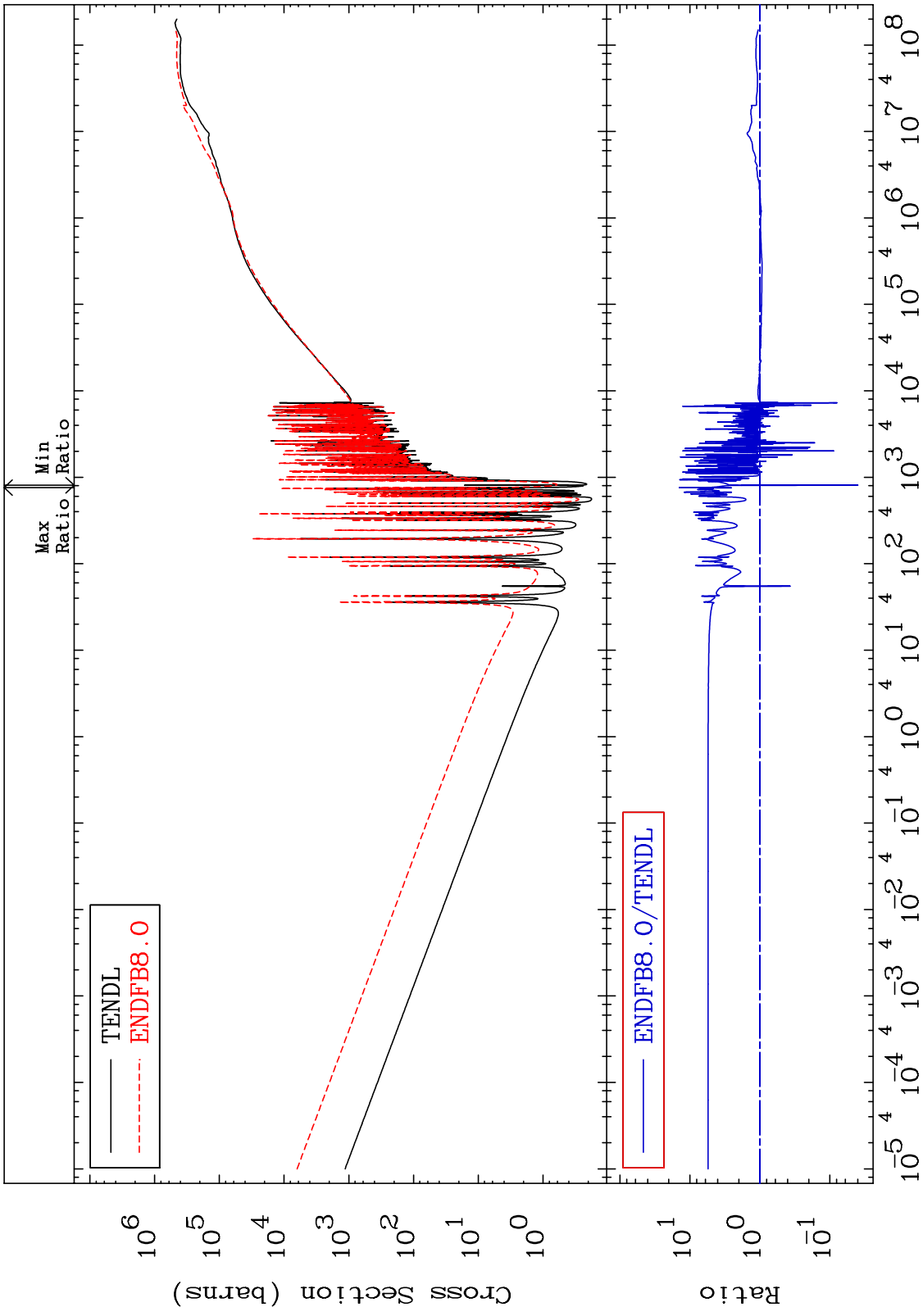
41-Nb-93  
-99.28 To 9999. %



MAT 4125 Total kinematic kerma (high limit) 41-Nb-93  
 Cross Section -91.82 To 1262. %



MAT 4125      Dpa total (eV-barns)      41-Nb-93  
 Cross Section      -96.02 To 1328. %

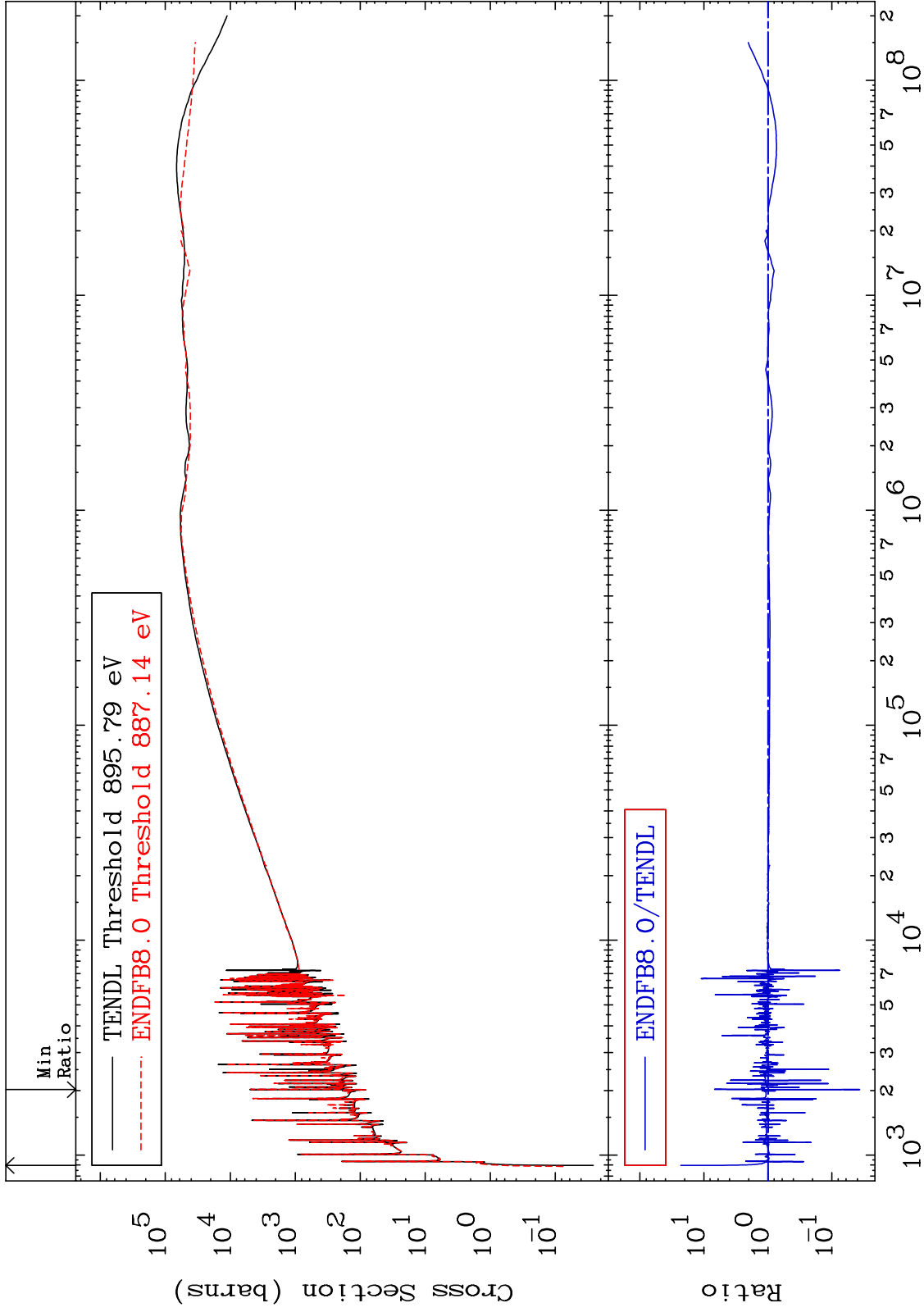


52      Incident Energy (eV)      41-Nb-93

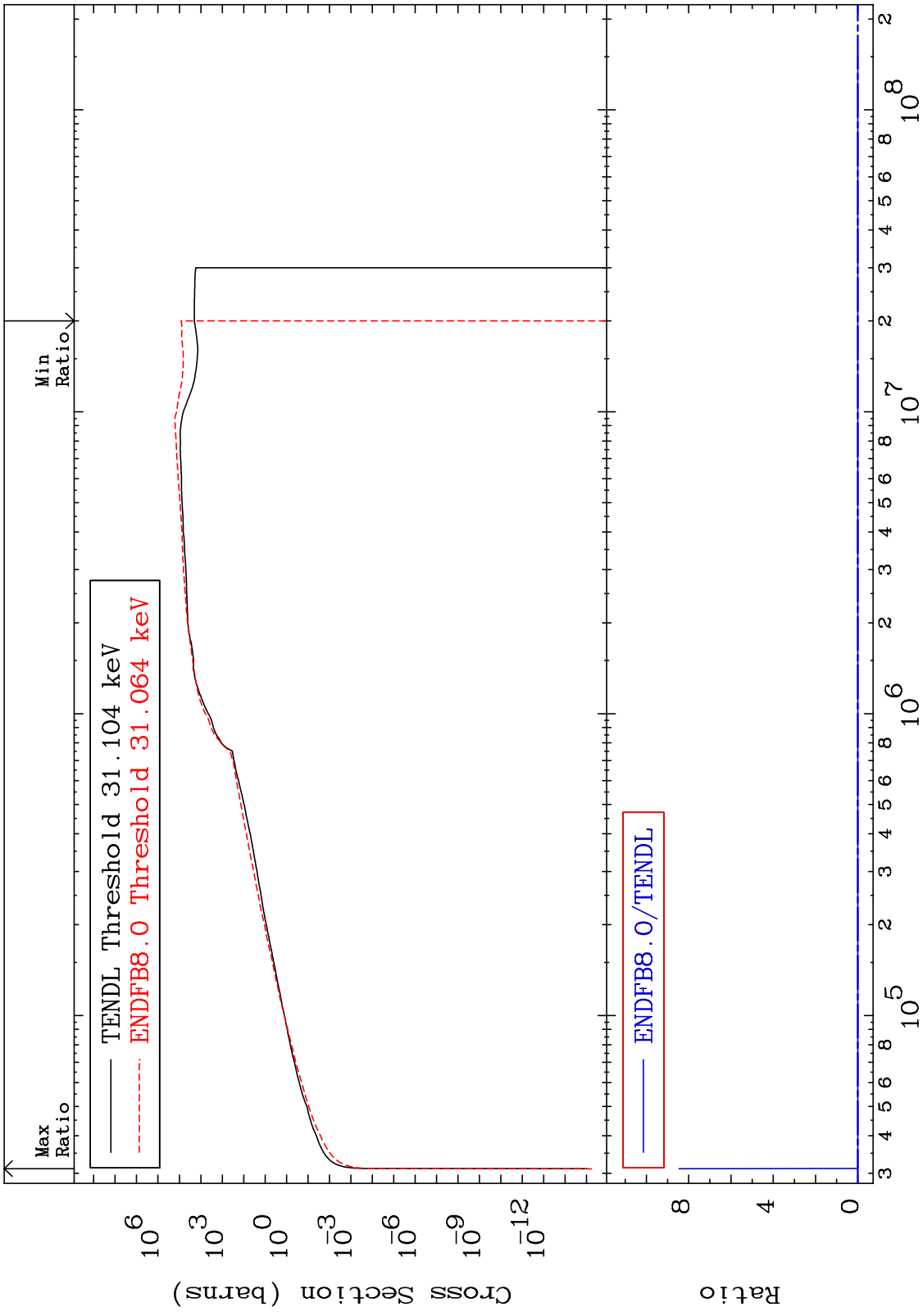
MAT 4125

Dpa elastic (mt2)  
Cross Section

41-Nb-93  
-96.31 To 2199. %



MAT 4125      Dpa inelastic (mt51-91)      41-Nb-93  
 Cross Section      -100.0 To 9999. %



MAT 4125      Dpa disappearance (mt102 -120)      41-Nb-93  
 Cross Section      -100.0 To 9999. %

