

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

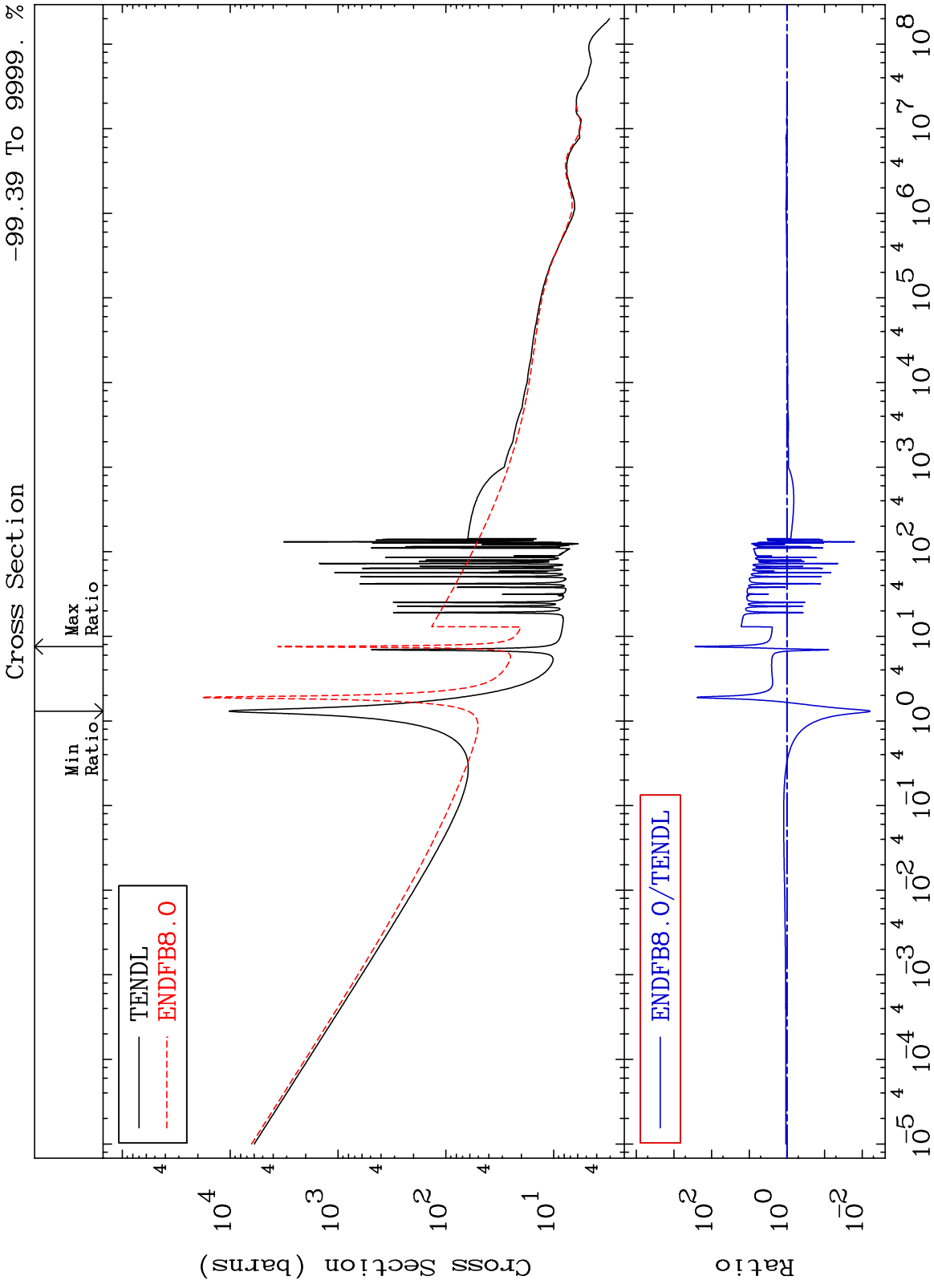
U.S.A.

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 9028 90-Th-228 -99.39 To 9999. %



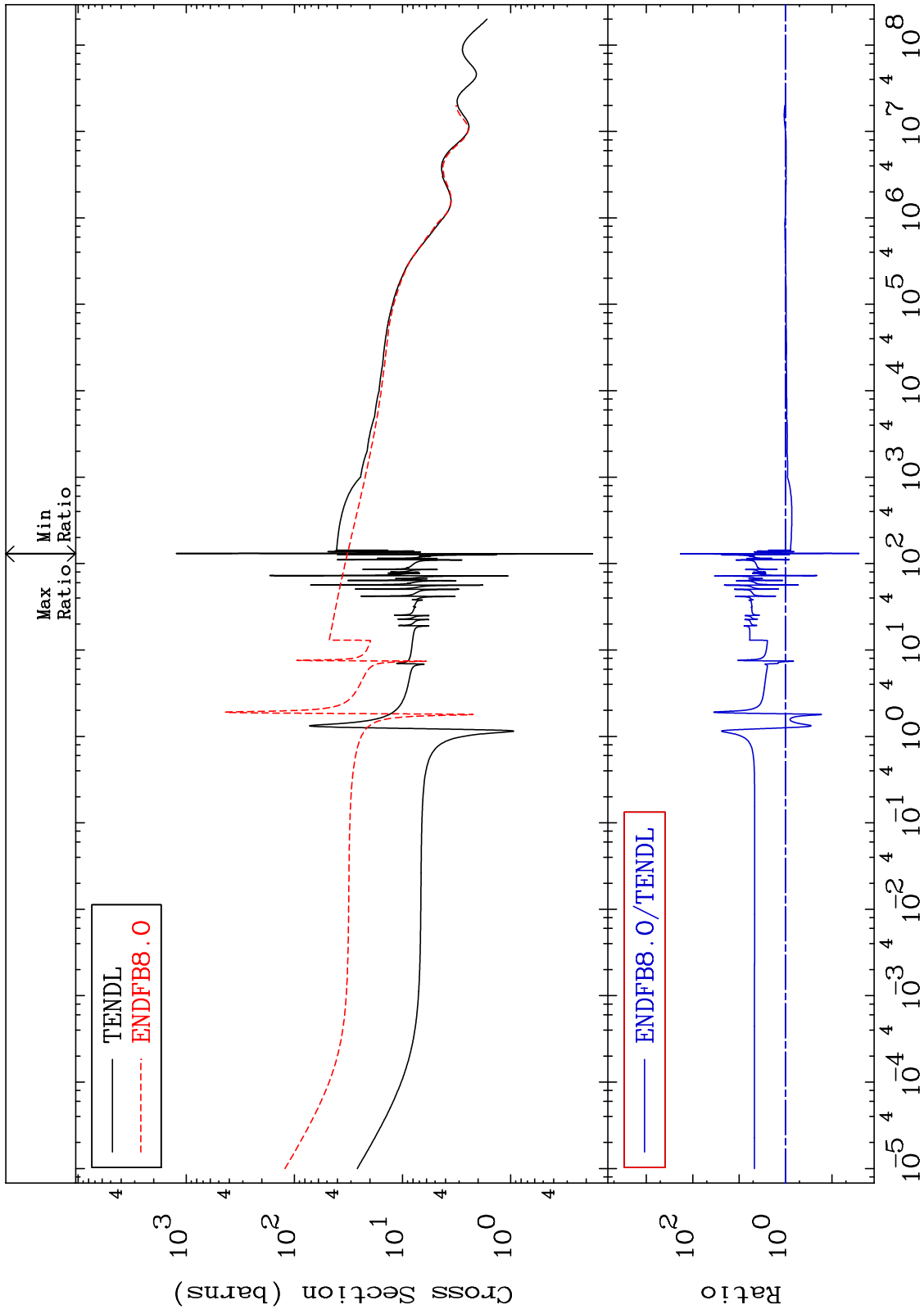
90-Th-228

90-Th-228

MAT 9028

Elastic  
Cross Section

90-Th-228  
-97.38 To 9999. %

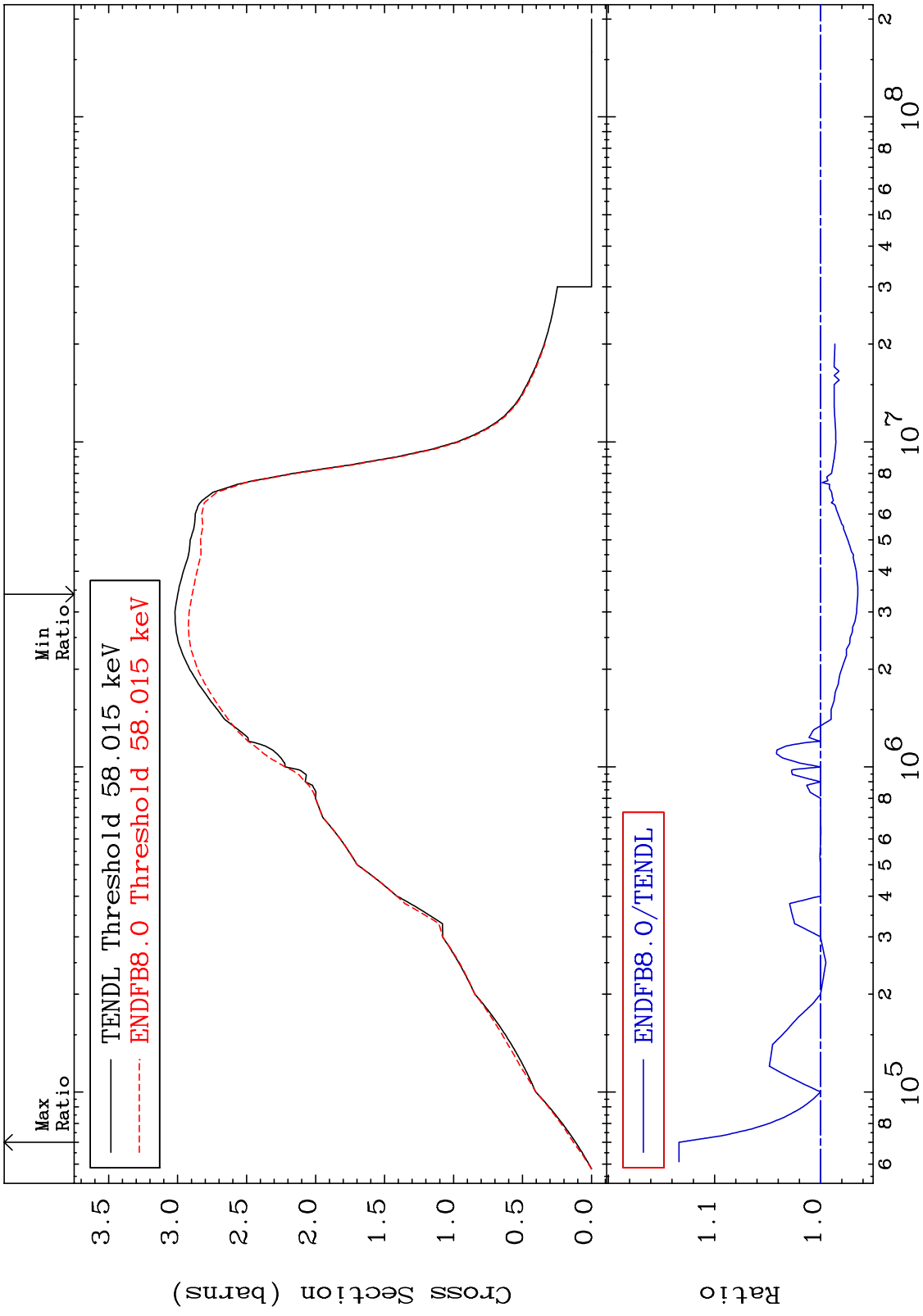


2

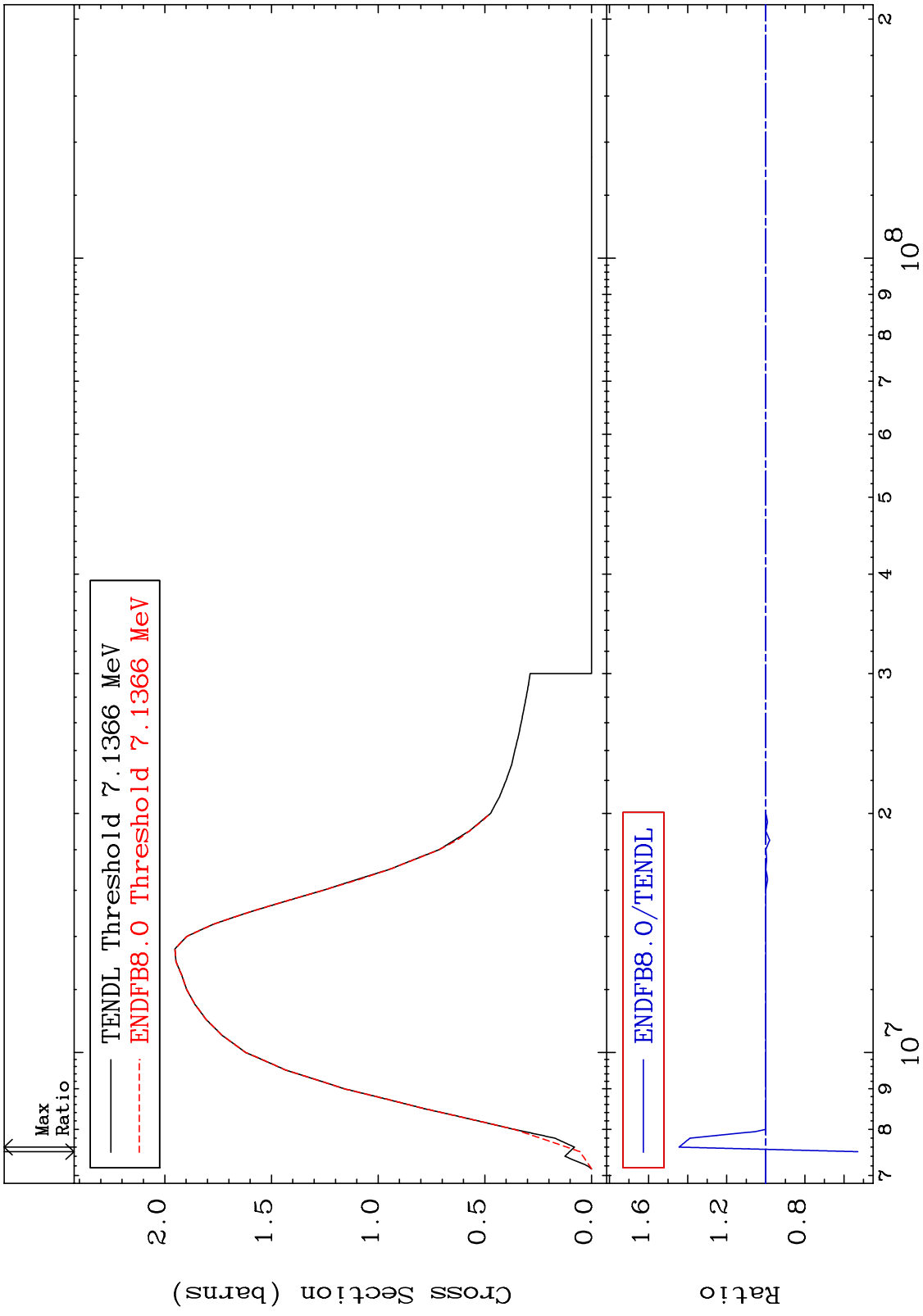
Incident Energy (eV)

90-Th-228

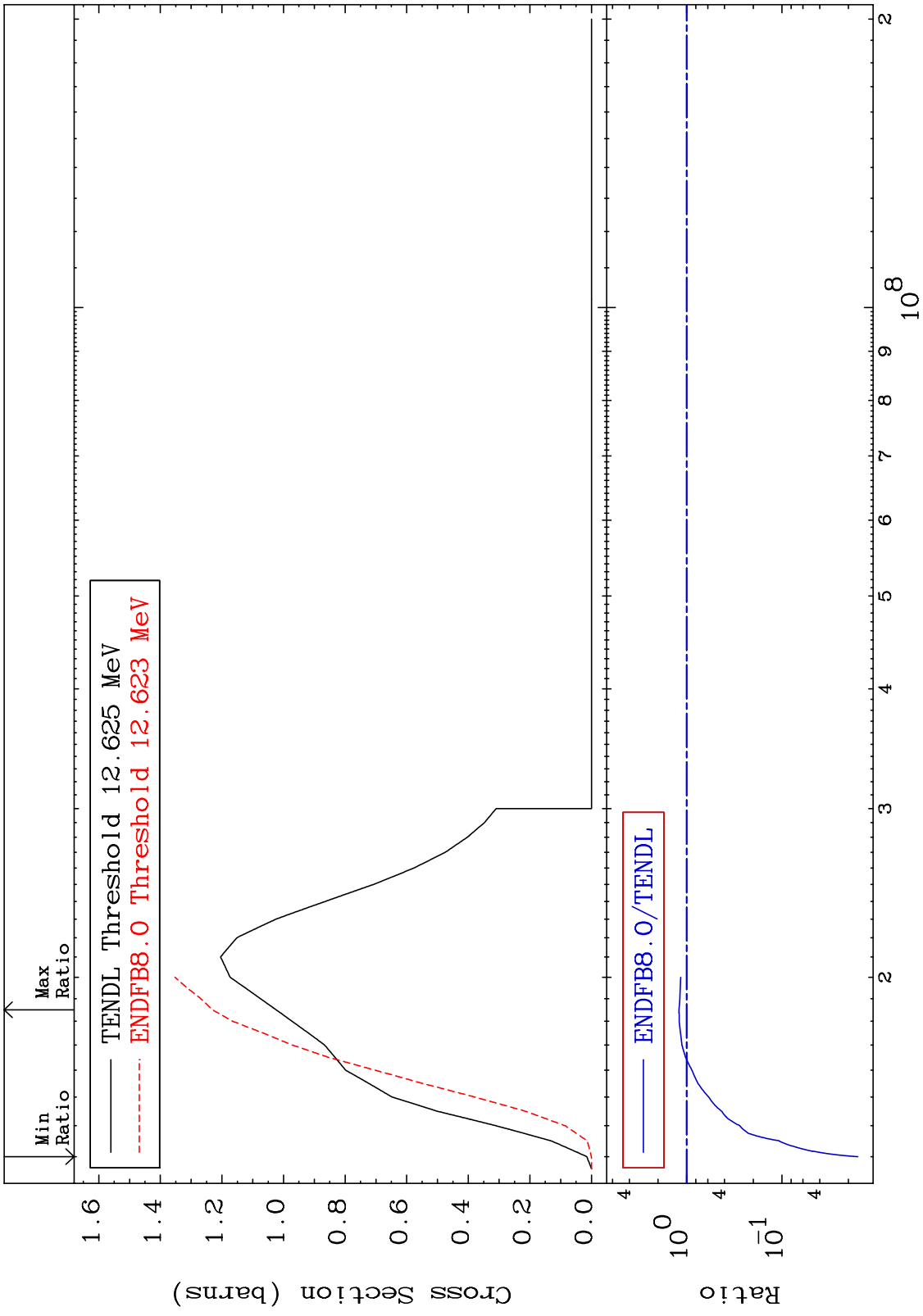
MAT 9028 90-Th-228  
-3.517 To 13.34 %  
Inelastic Cross Section



MAT 9028 (n,2n) Cross Section 90-Th-228 -47.09 To 44.38 %



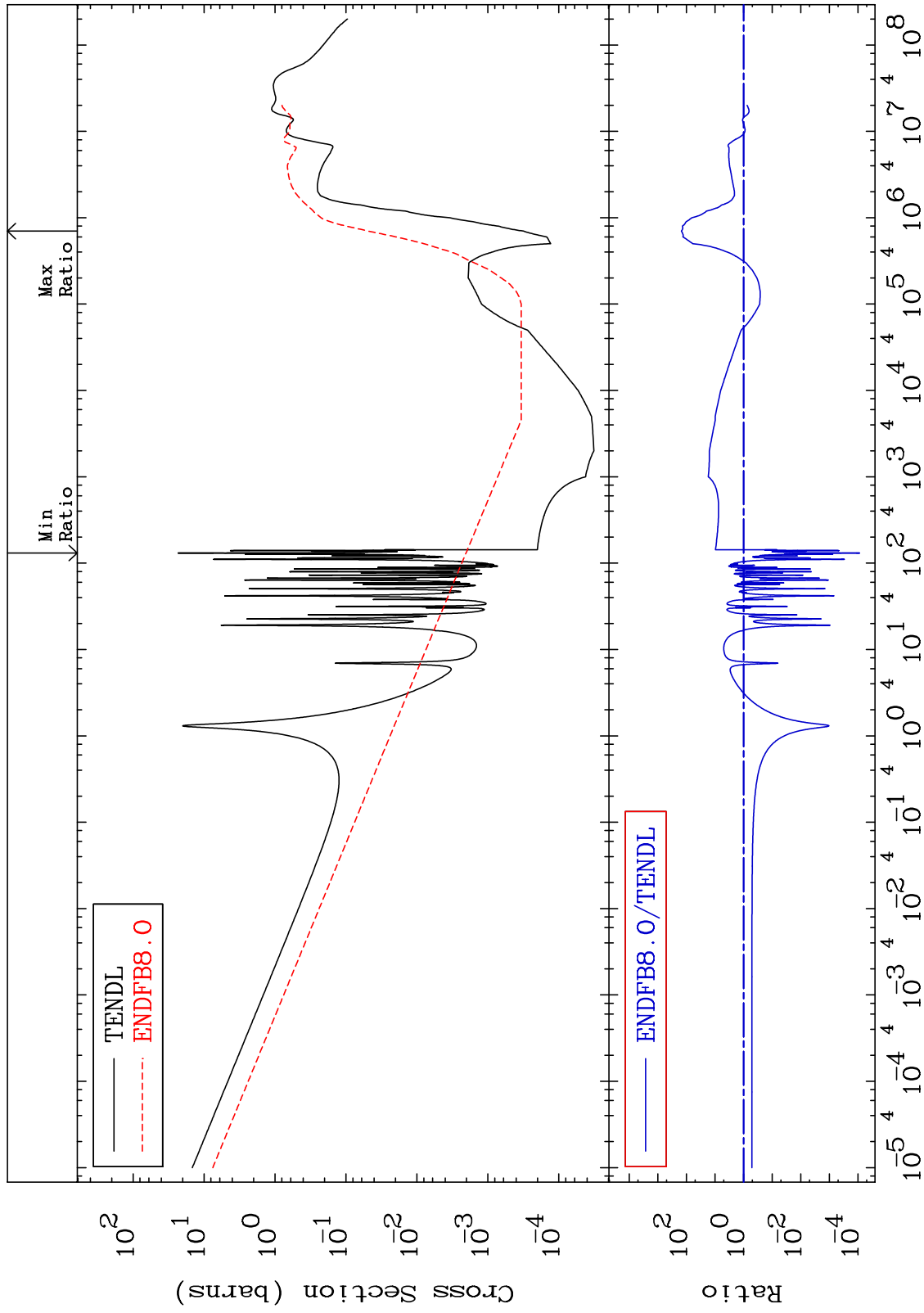
MAT 9028 (n,3n) 90-Th-228  
 Cross Section -98.41 To 20.18 %



MAT 9028

Fission Cross Section

90-Th-228  
-99.99 To 9999. %



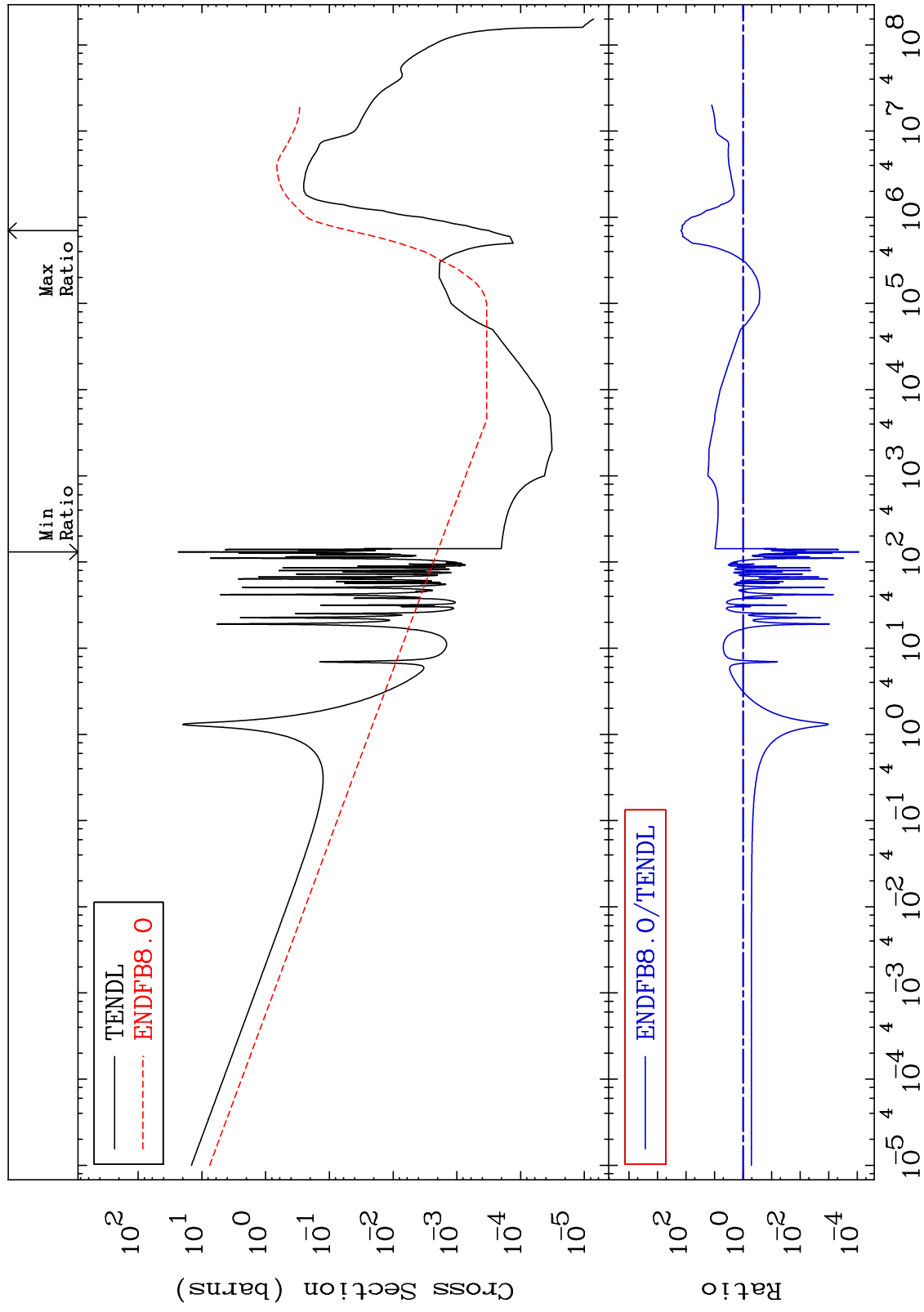
Incident Energy (eV)

90-Th-228

MAT 9028

(n,f) First Chance  
Cross Section

90-Th-228  
-99.99 To 9999. %



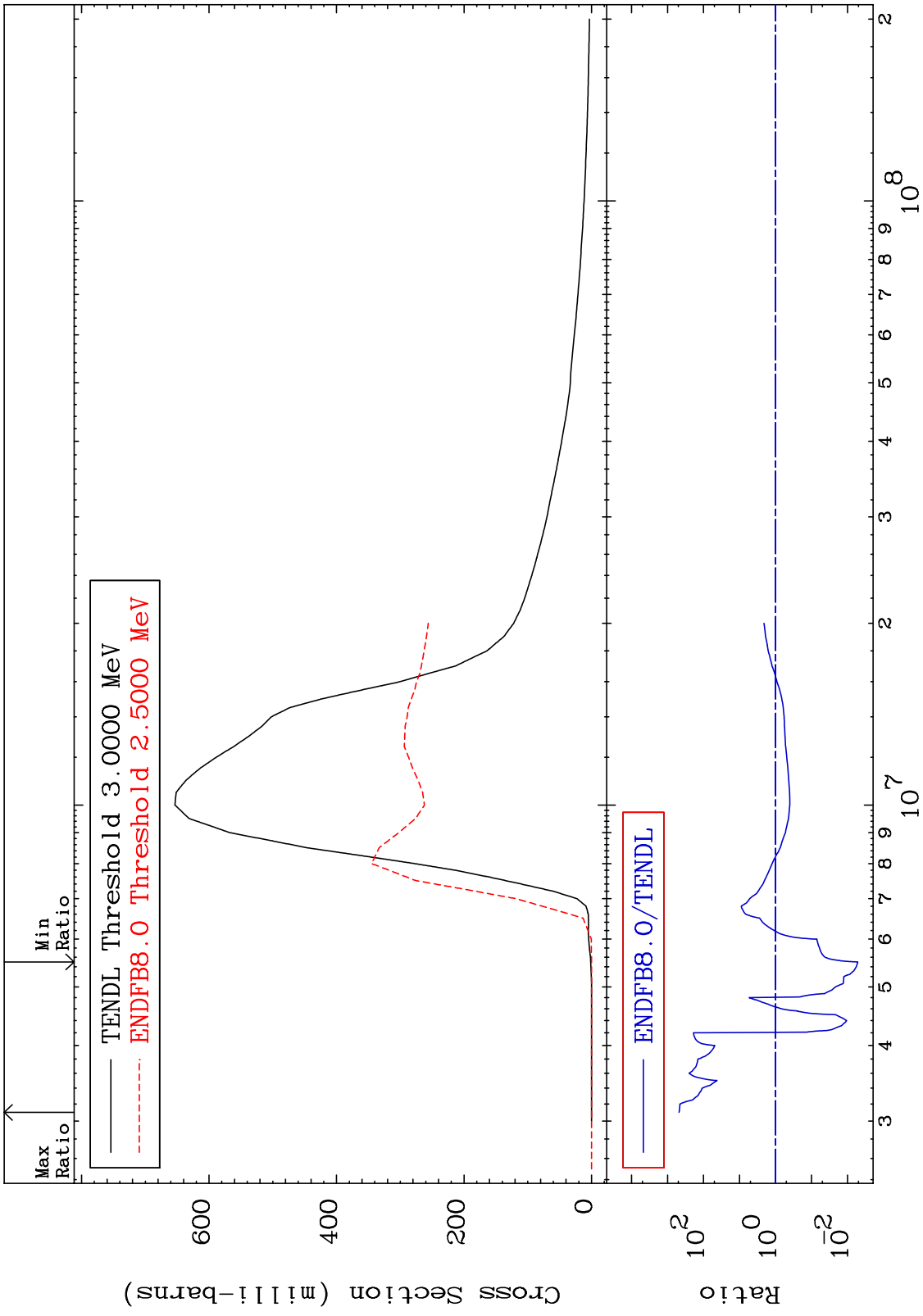
7

Incident Energy (eV)

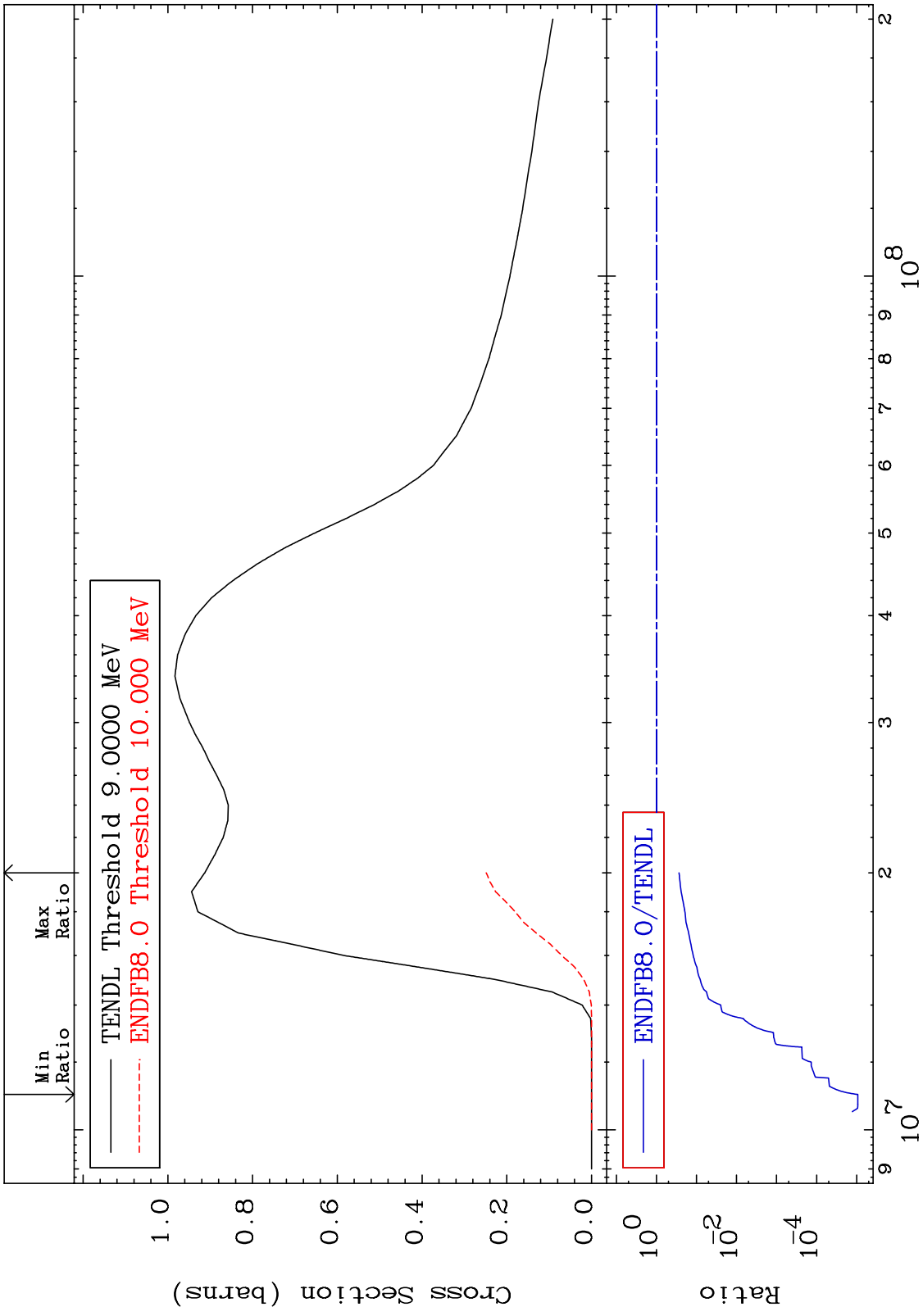
90-Th-228



MAT 9028 (n,nf) Second Chance Cross Section 90-Th-228 -99.48 To 9999. %



MAT 9028 (n,2nf) Third Chance Cross Section 90-Th-228 -100.0 To -72.79%

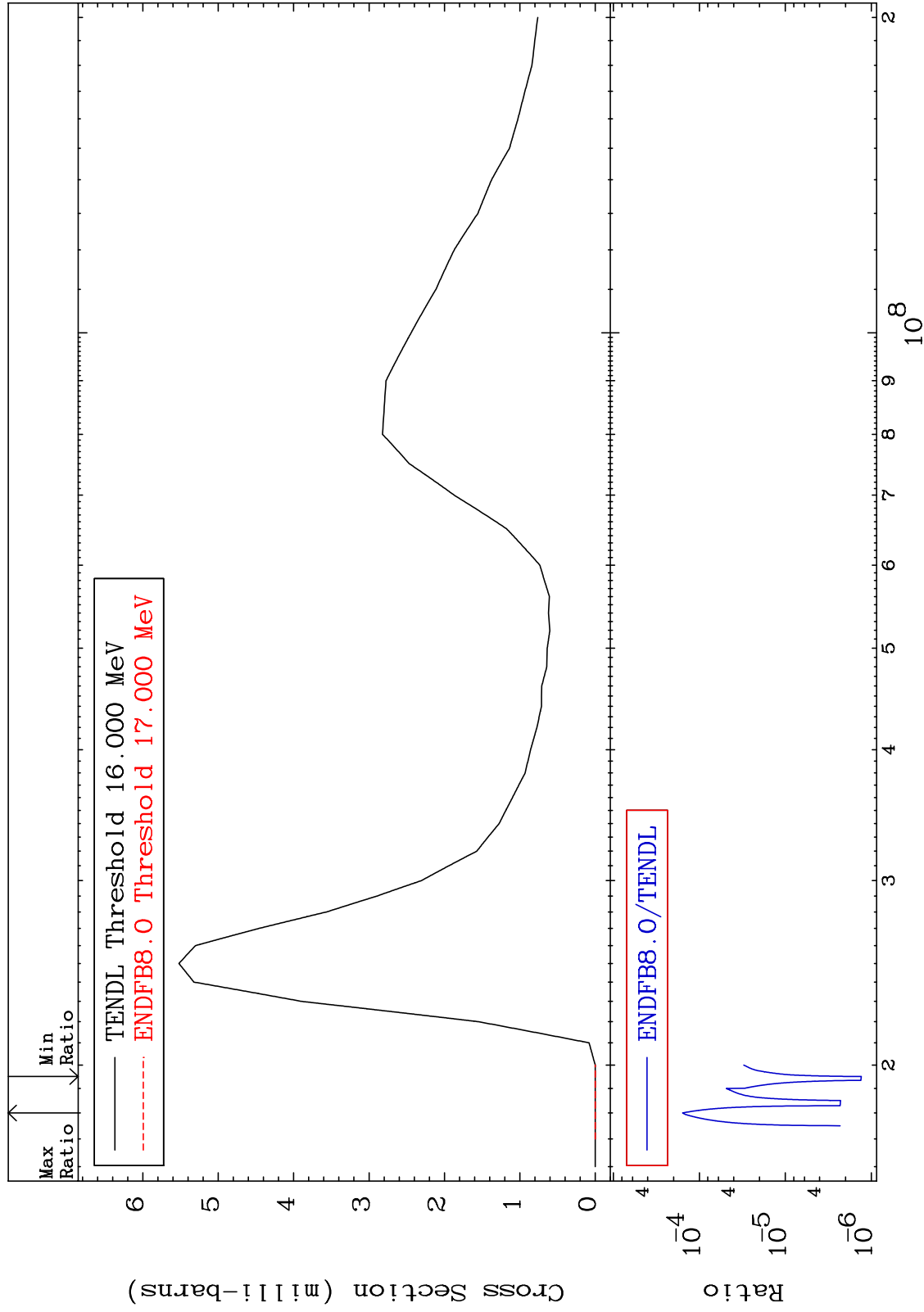


90-Th-228

MAT 9028

(n,3nf) Fourth Chance  
Cross Section

90-Th-228  
-100.0 To -99.98%



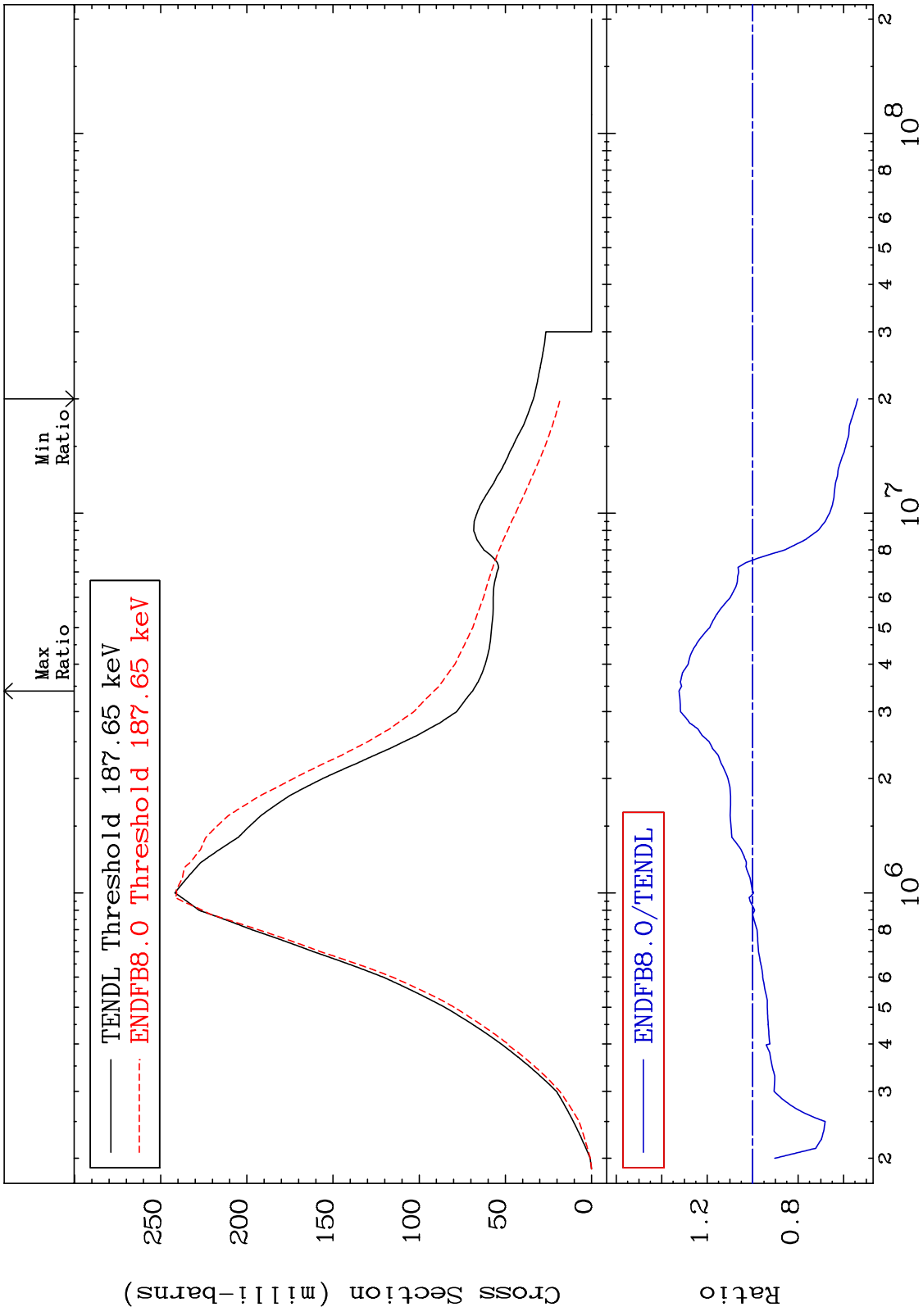
10

Incident Energy (eV)

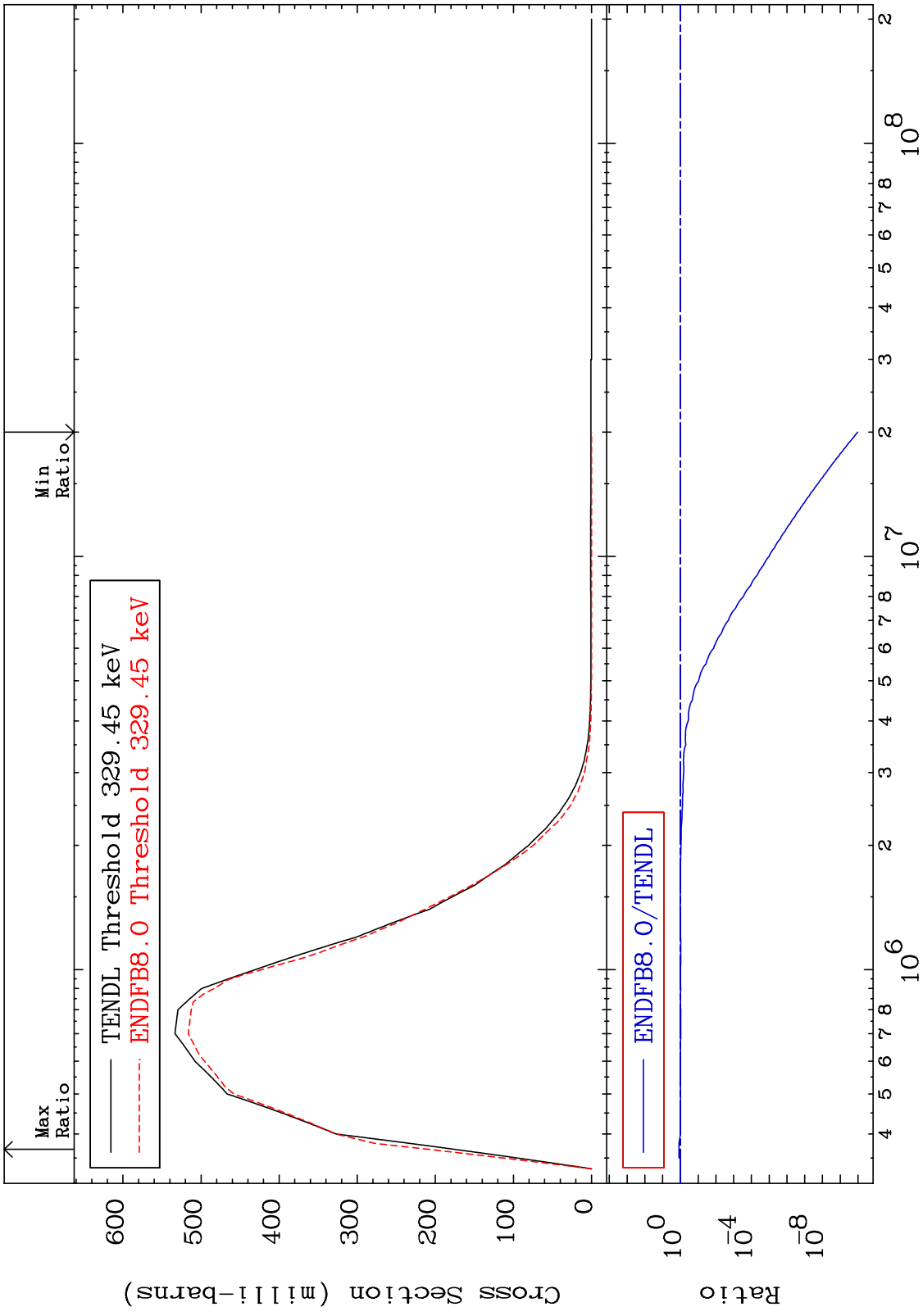
90-Th-228



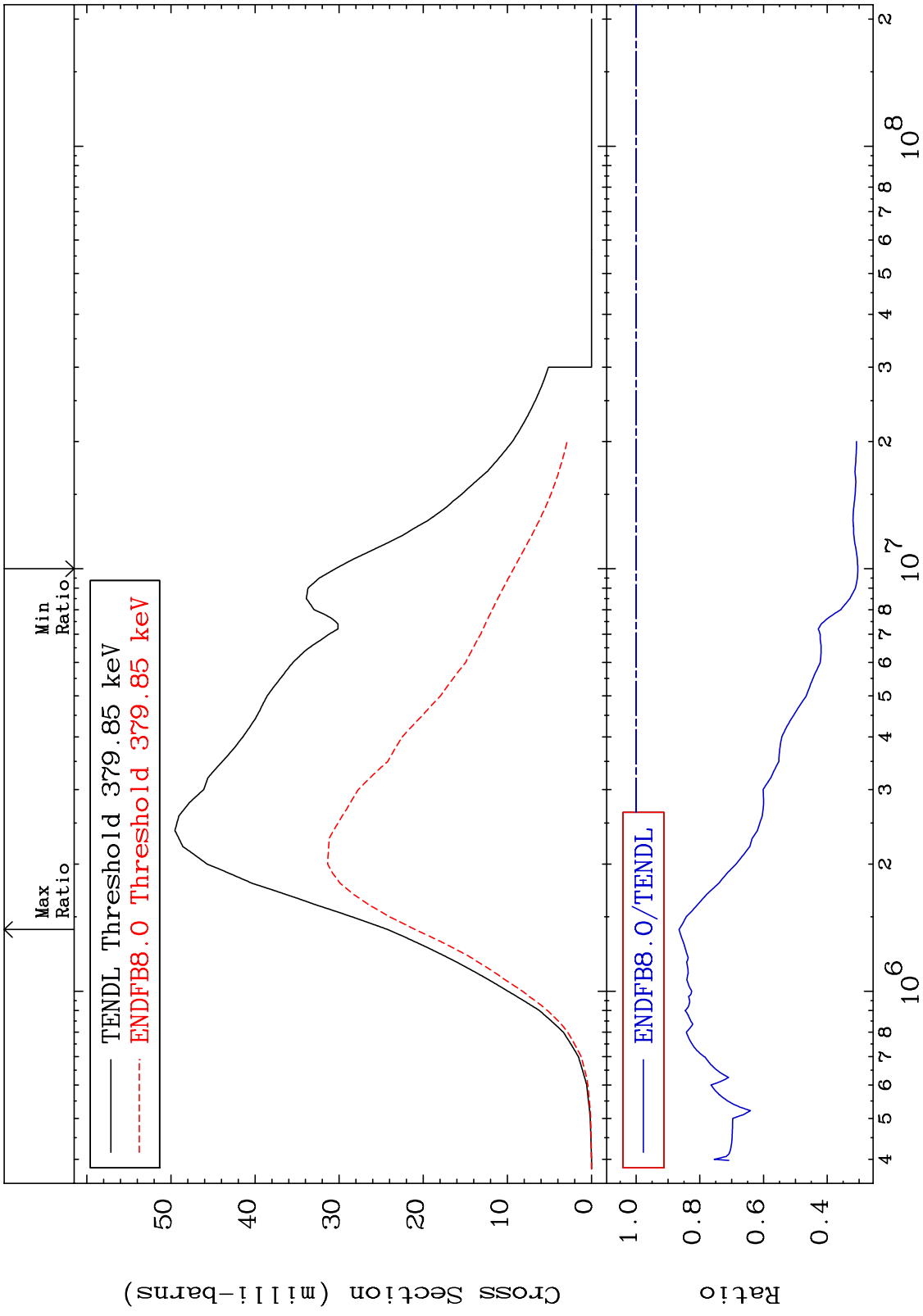
MAT 9028 MT= 52 (n,n') Level Cross Section 90-Th-228 -46.24 To 32.38 %



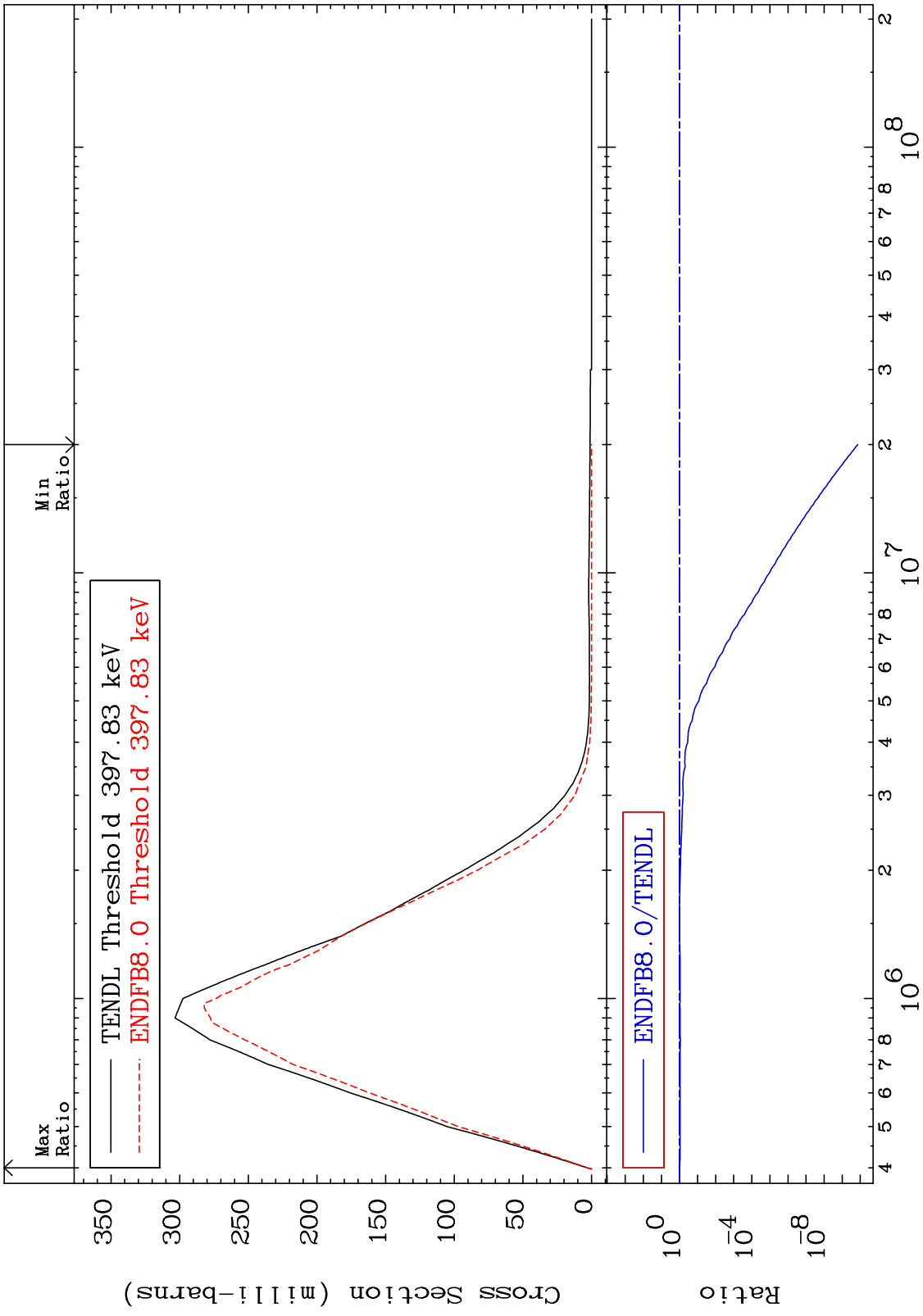
MAT 9028 MT= 53 (n,n') Level Cross Section -100.0 To 19.01 % 90-Th-228



MAT 9028 MT= 54 (n,n') Level Cross Section 90-Th-228  
 -69.61 To -13.47%

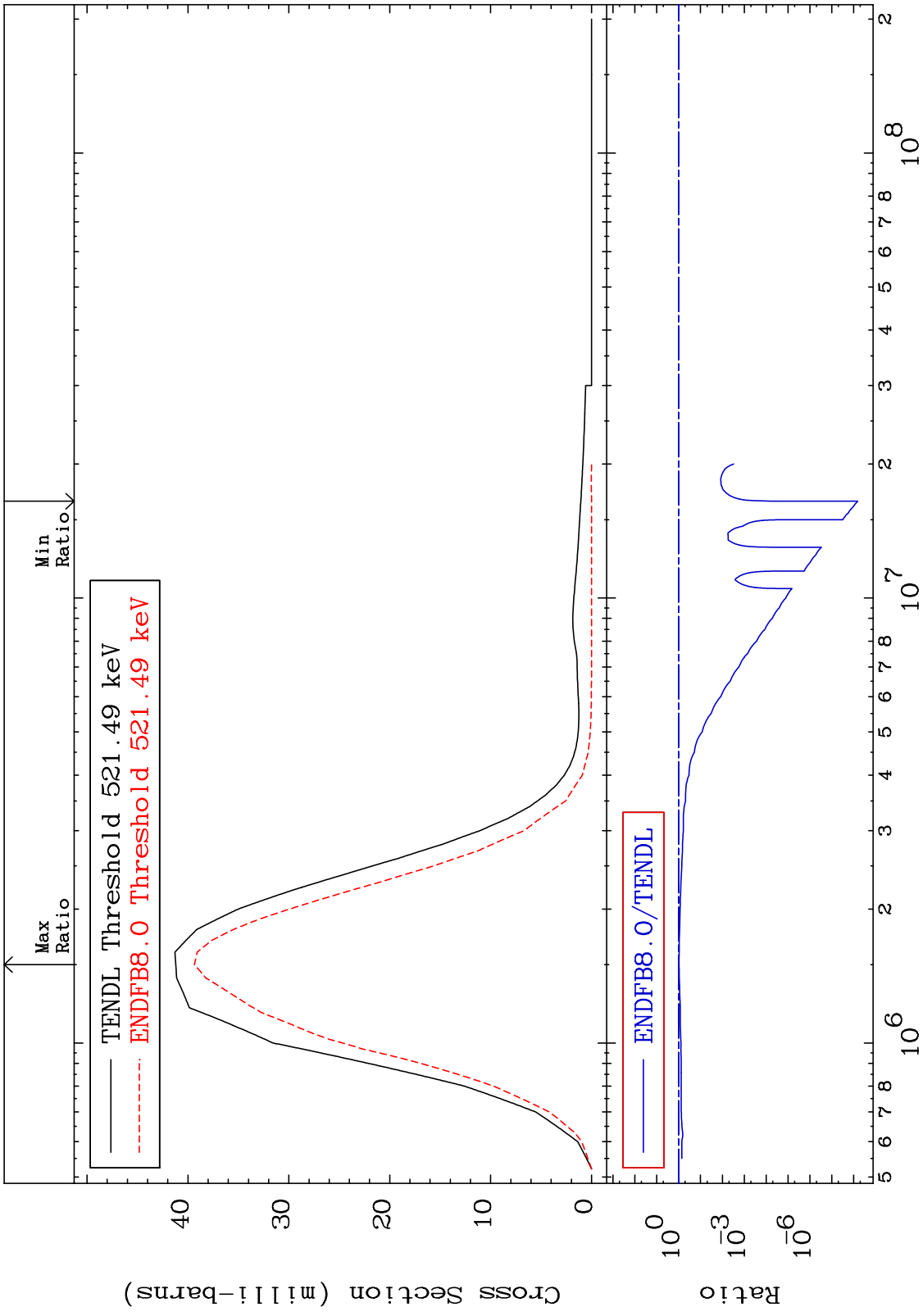


MAT 9028 MT= 55 (n,n') Level Cross Section -100.0 To 5.472 % 90-Th-228

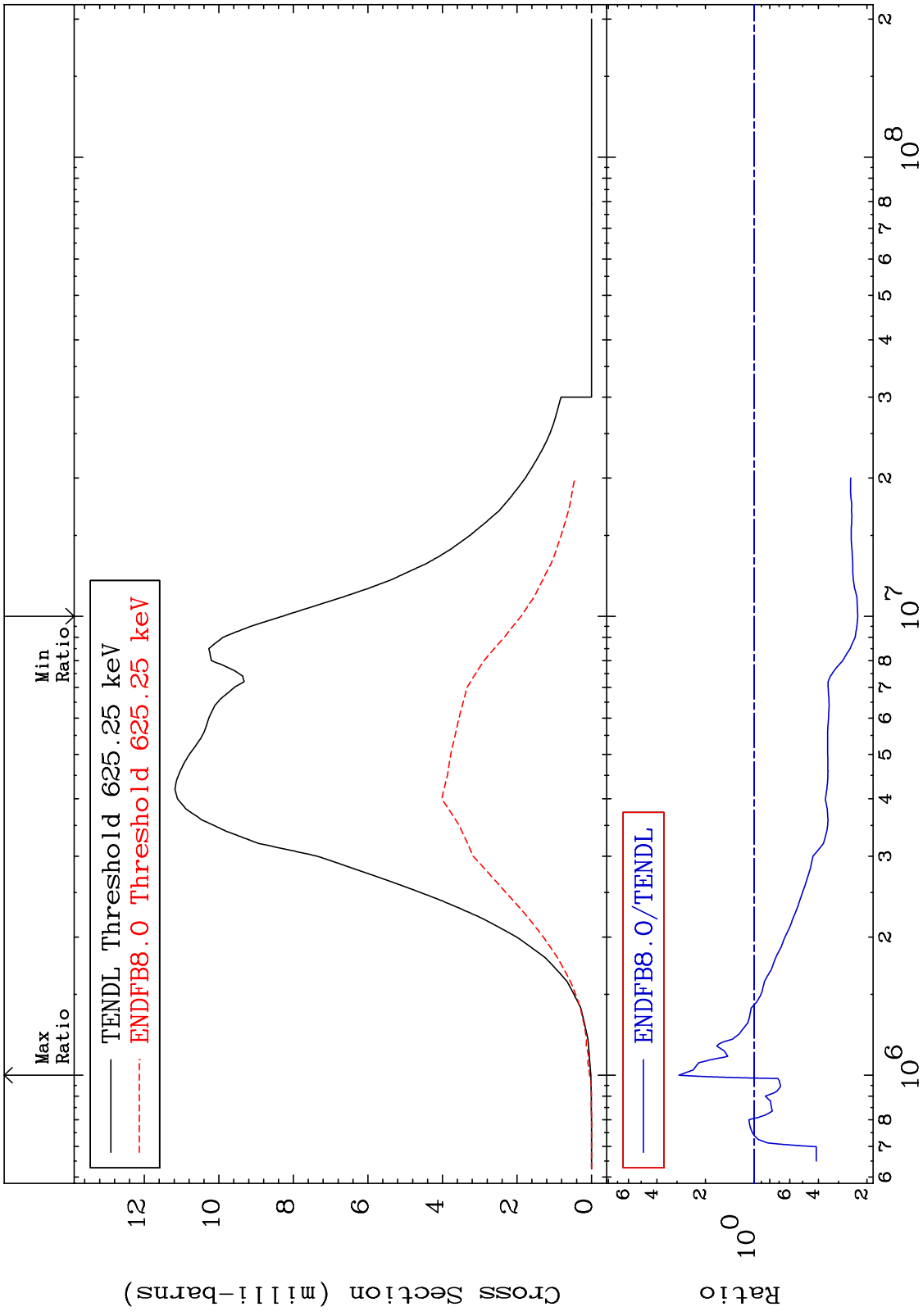




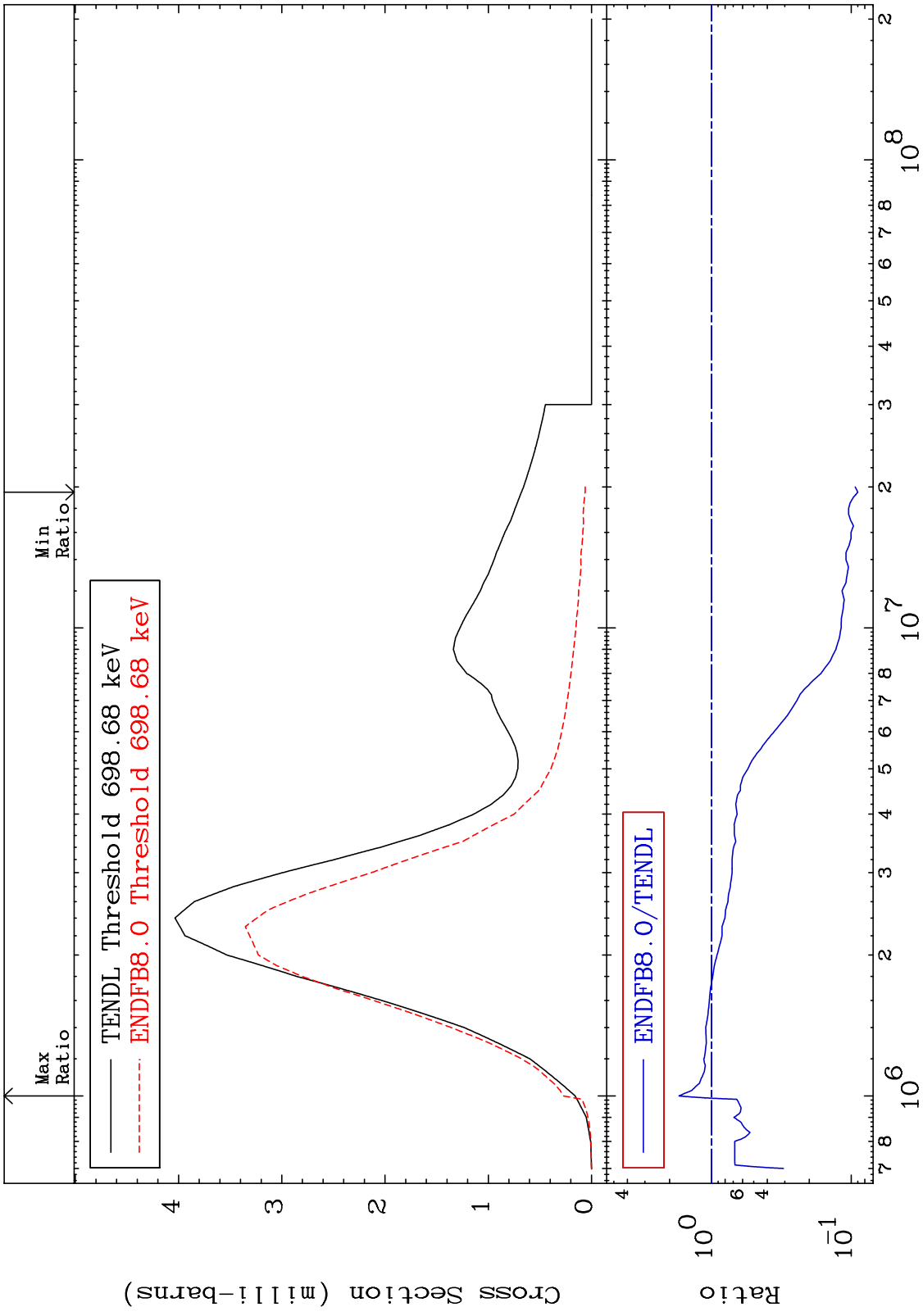
MAT 9028 MT= 56 (n,n') Level Cross Section -100.0 To -4.493% 90-Th-228



MAT 9028      MT= 57 (n,n') Level      90-Th-228  
 Cross Section      -77.23 To 191.6 %



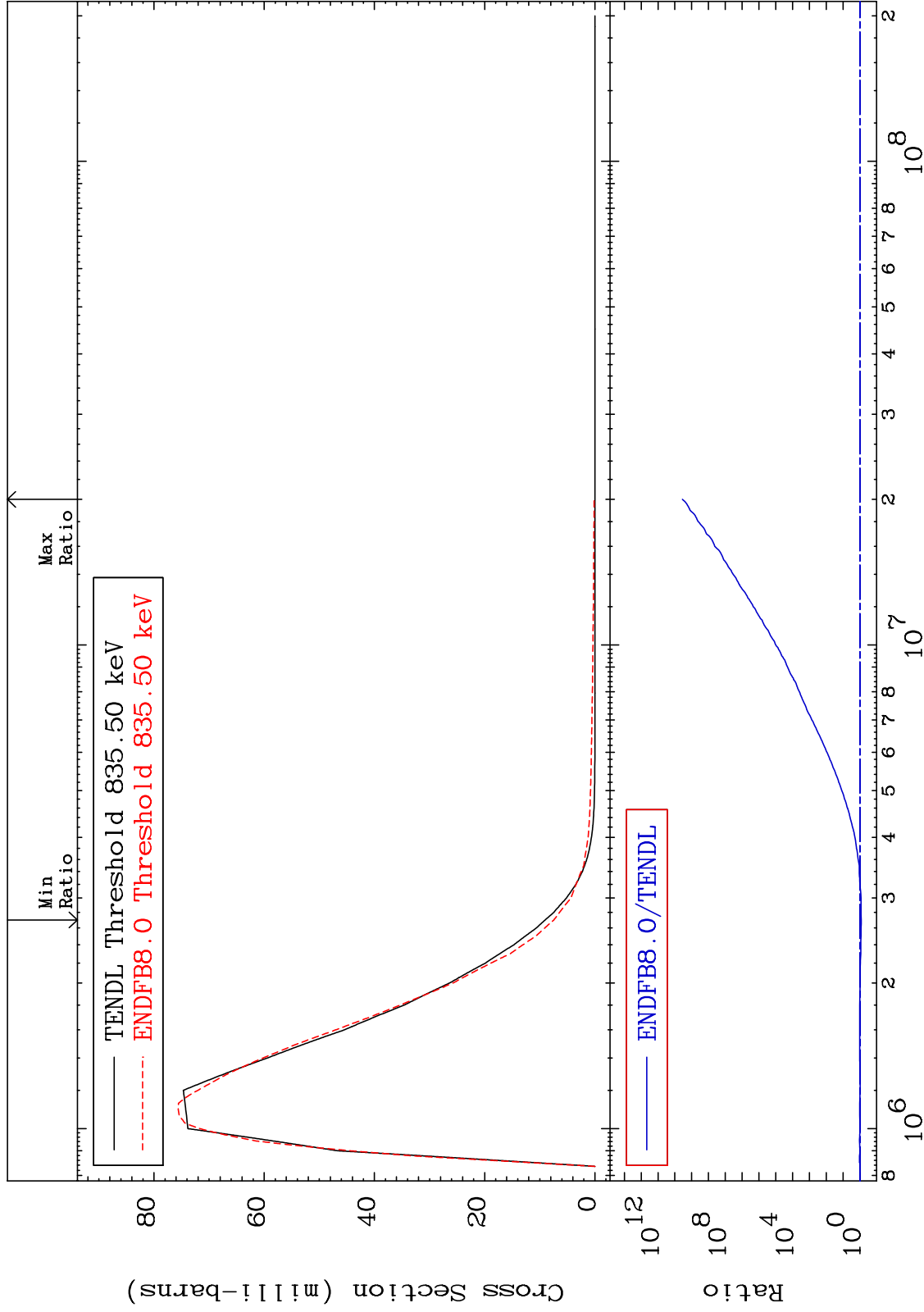
MAT 9028 MT= 58 (n,n') Level Cross Section 90-Th-228 -91.02 To 71.02 %



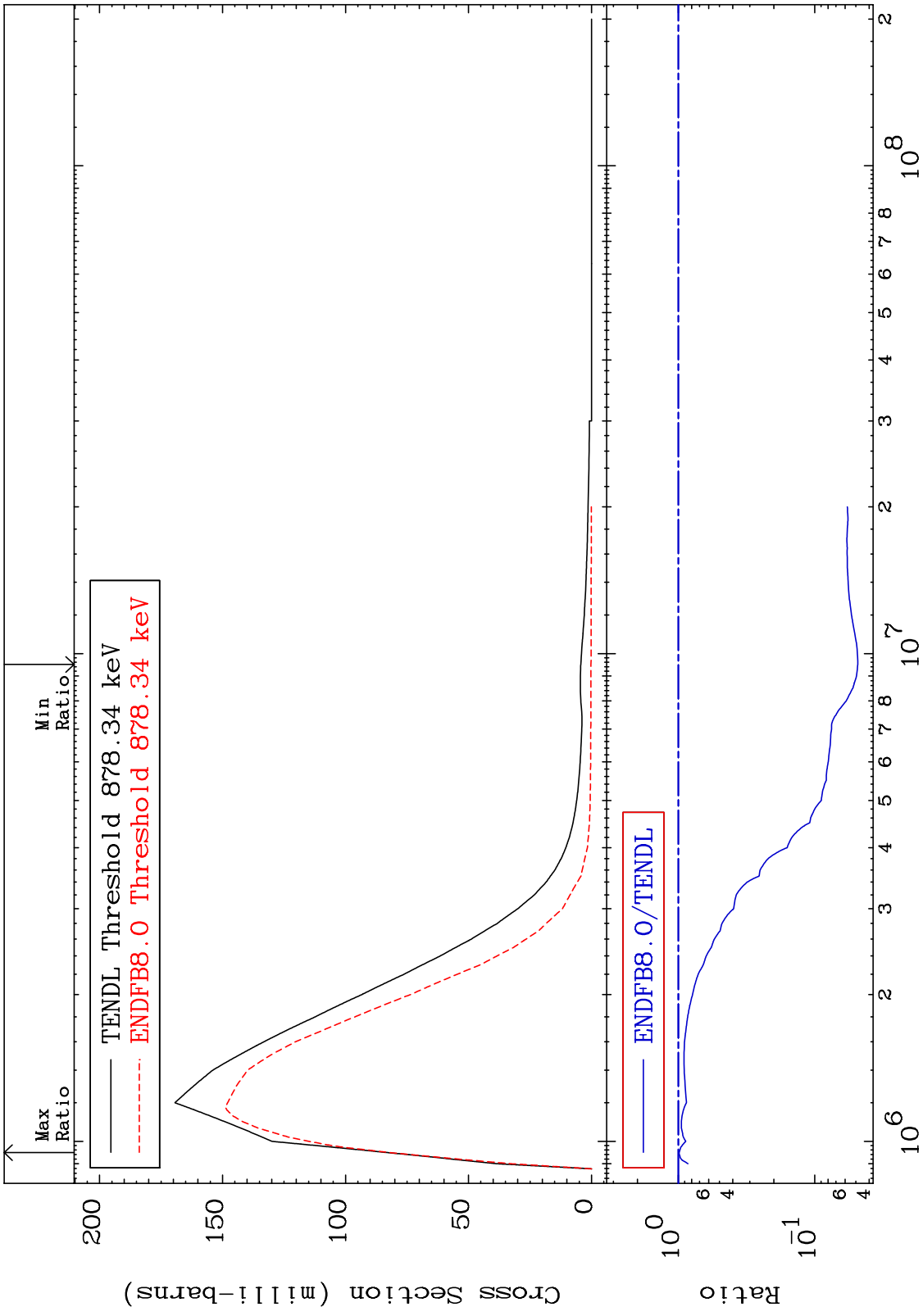
MAT 9028

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

90-Th-228  
-17.59 To 9999. %



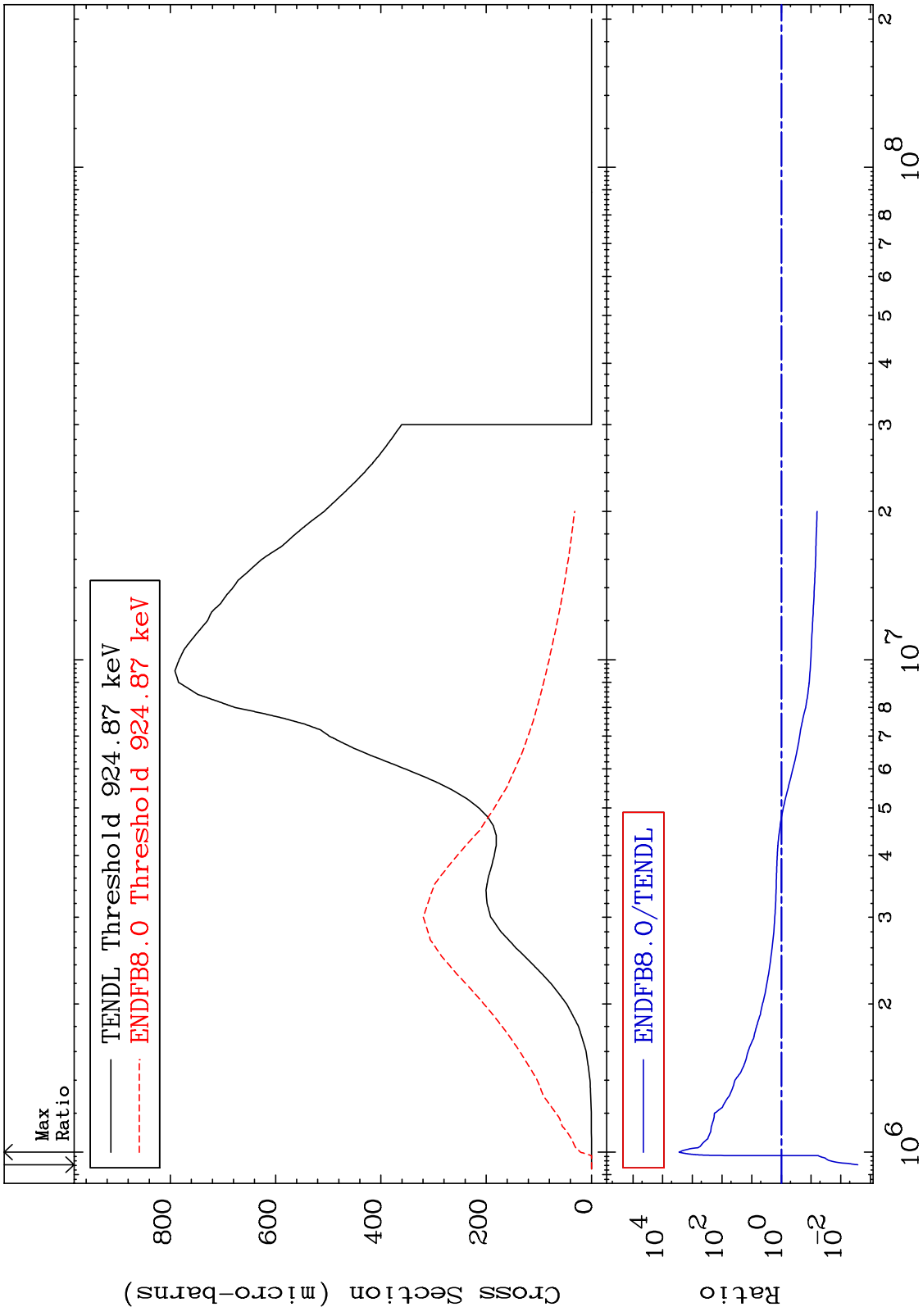
MAT 9028 MT= 60 (n,n') Level Cross Section 90-Th-228 -95.16 To -1.057%



20 Incident Energy (eV) 90-Th-228



MAT 9028 MT= 62 (n,n') Level Cross Section 90-Th-228 -99.73 To 9999. %

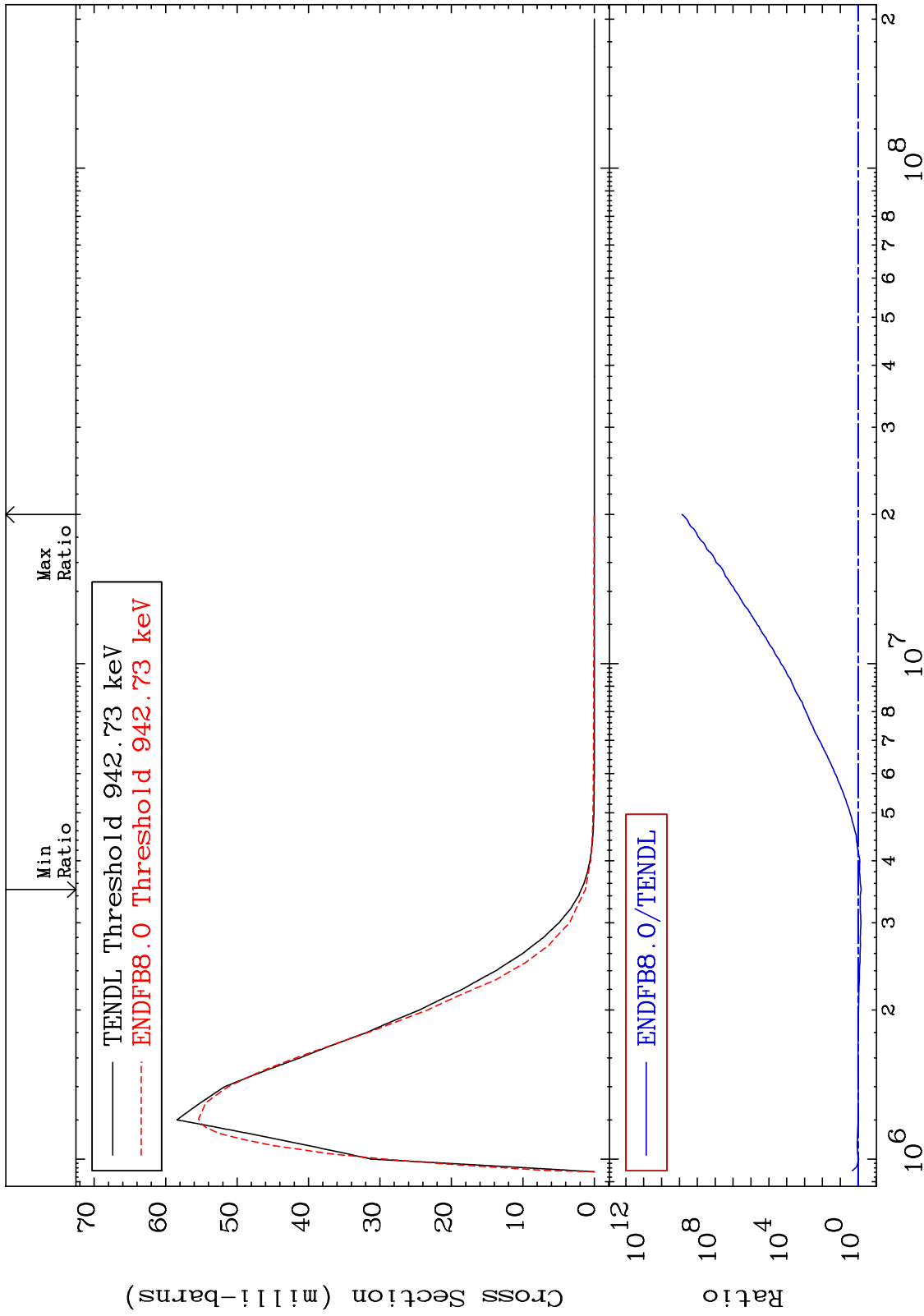


22 90-Th-228

MAT 9028

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

90-Th-228  
-32.10 To 9999. %



23

Incident Energy (eV)

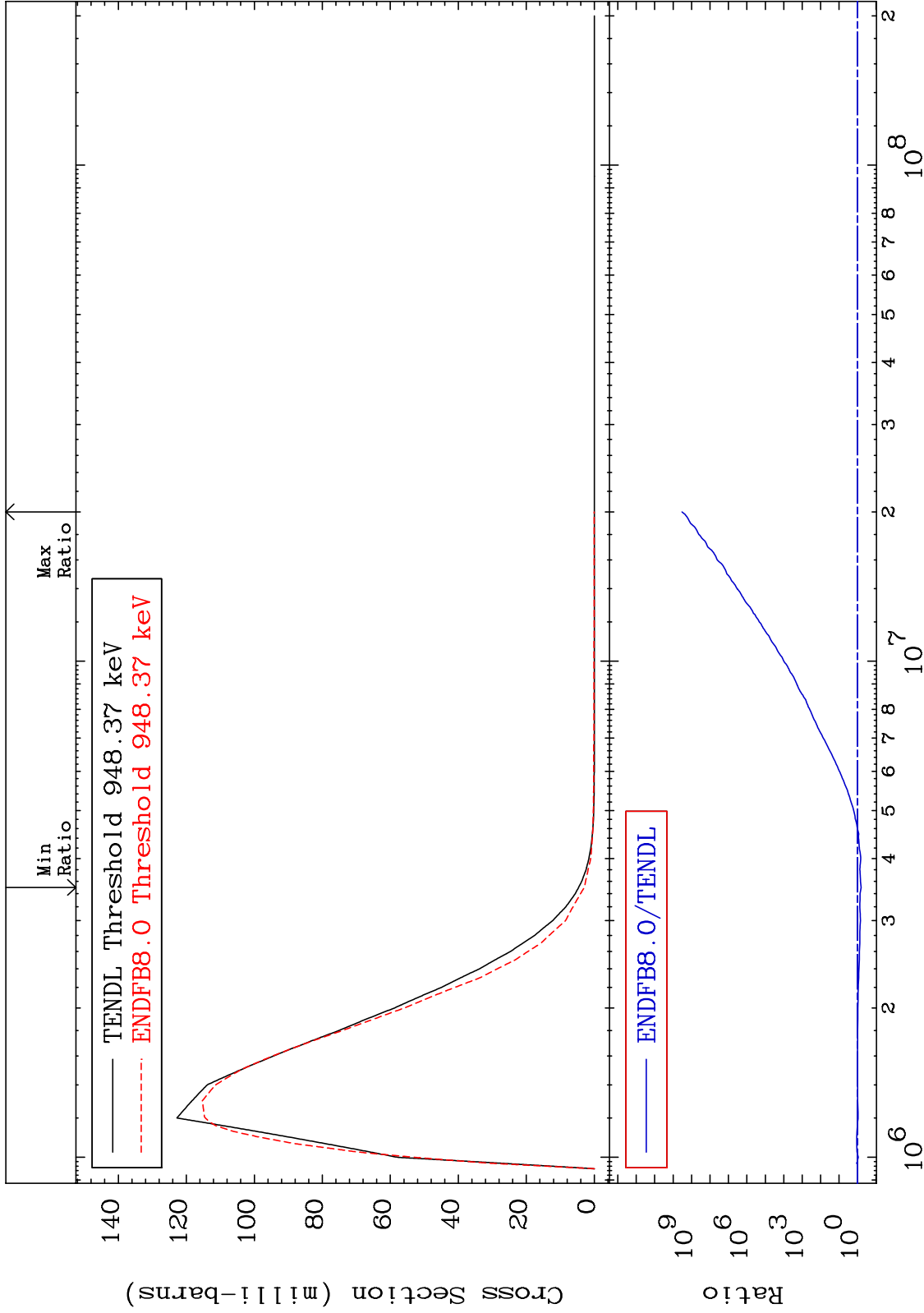
90-Th-228



MAT 9028

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

90-Th-228  
-36.70 To 9999. %

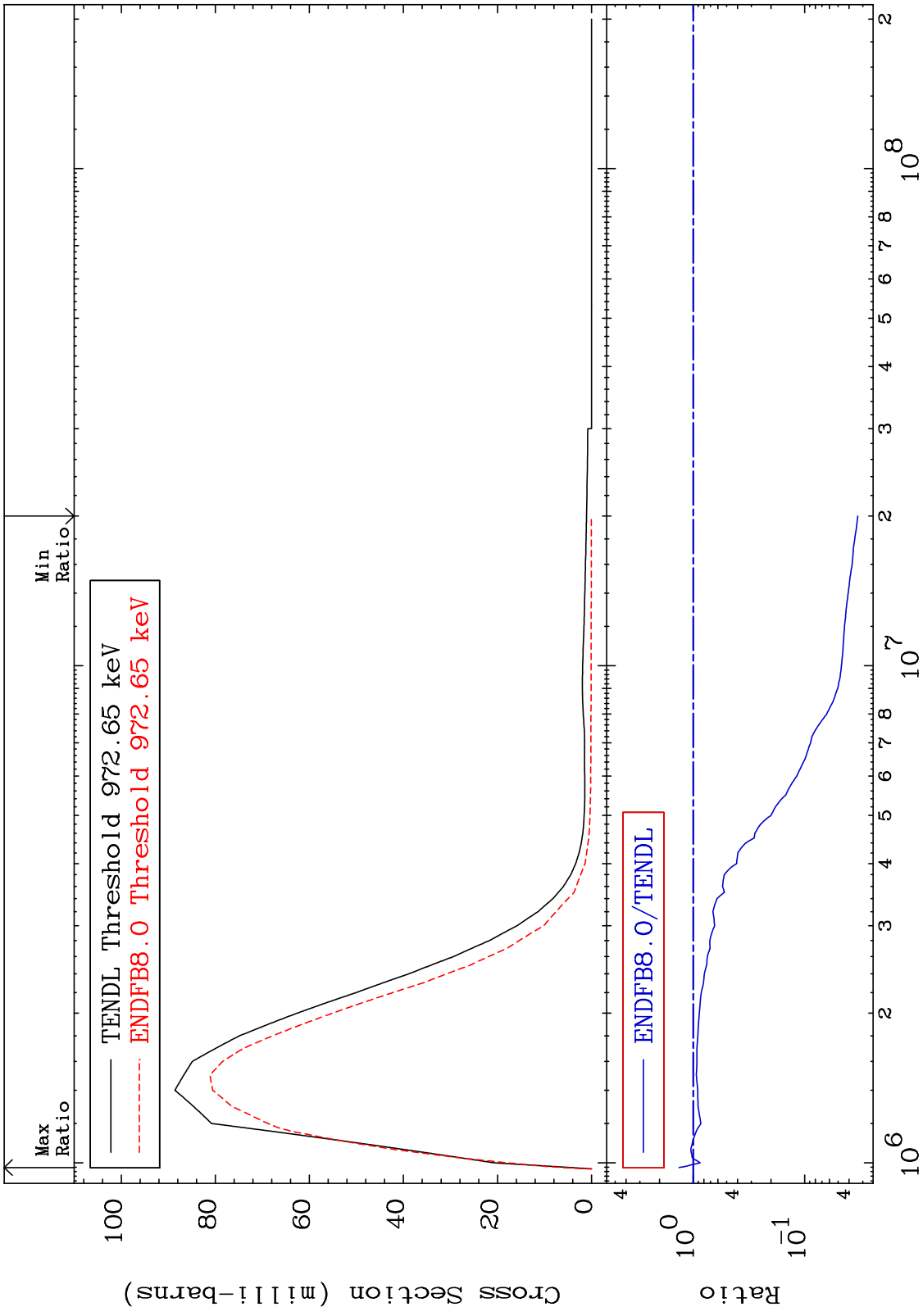


24

Incident Energy (eV)

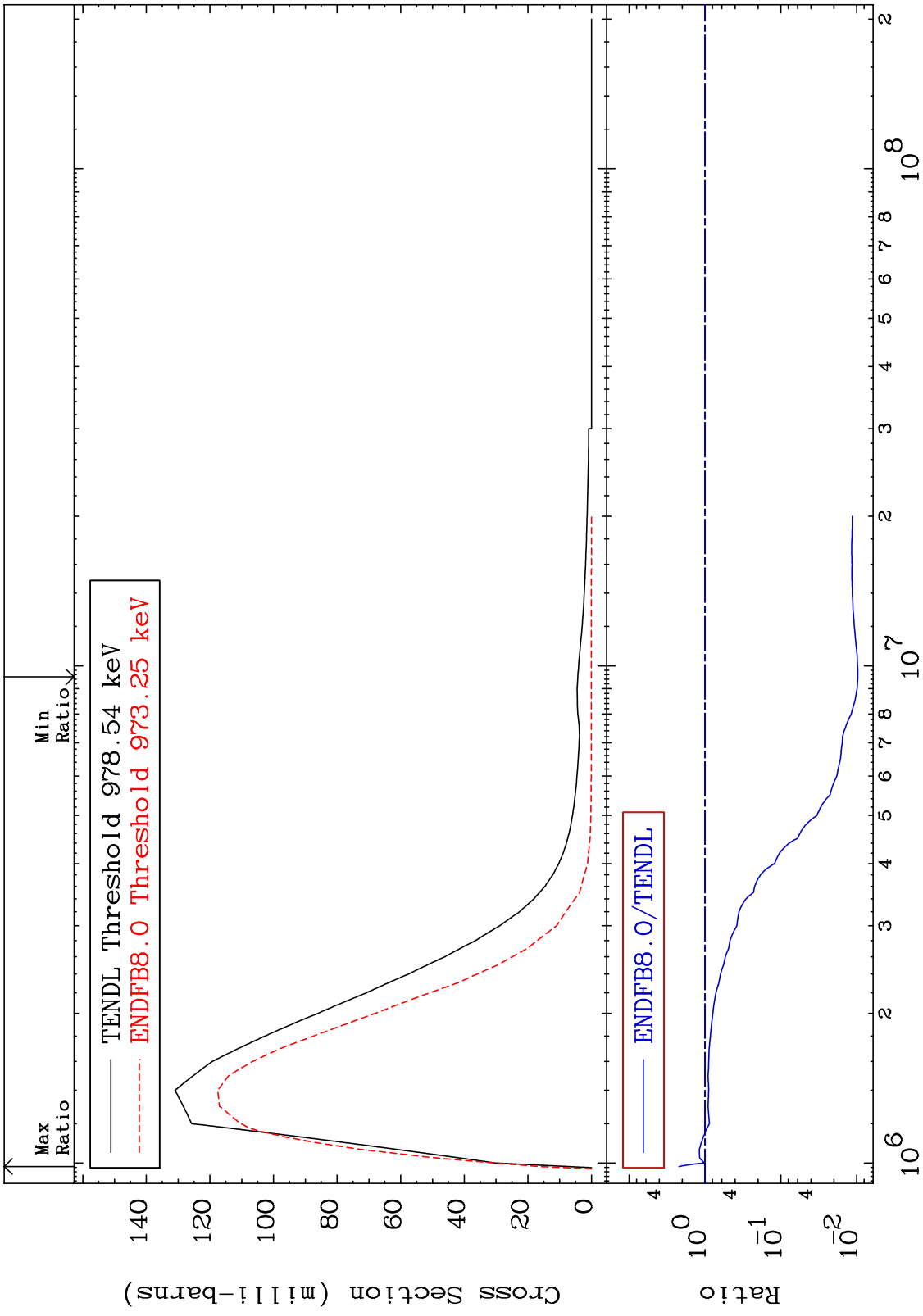
90-Th-228

MAT 9028 MT= 65 (n,n') Level Cross Section 90-Th-228 -96.67 To 33.70 %



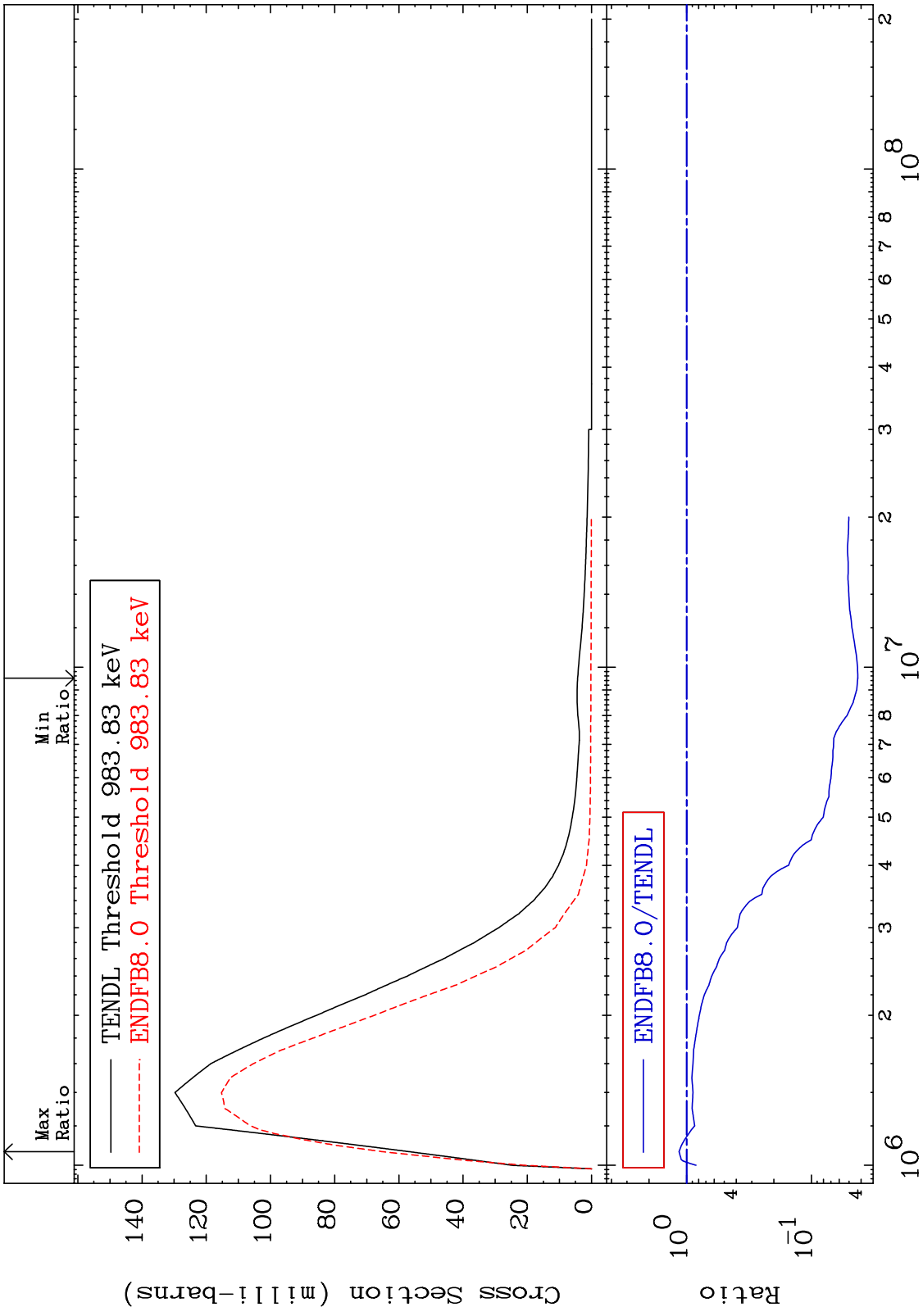
25 Incident Energy (eV) 90-Th-228

MAT 9028 MT= 66 (n,n') Level Cross Section 90-Th-228 -99.03 To 120.3 %



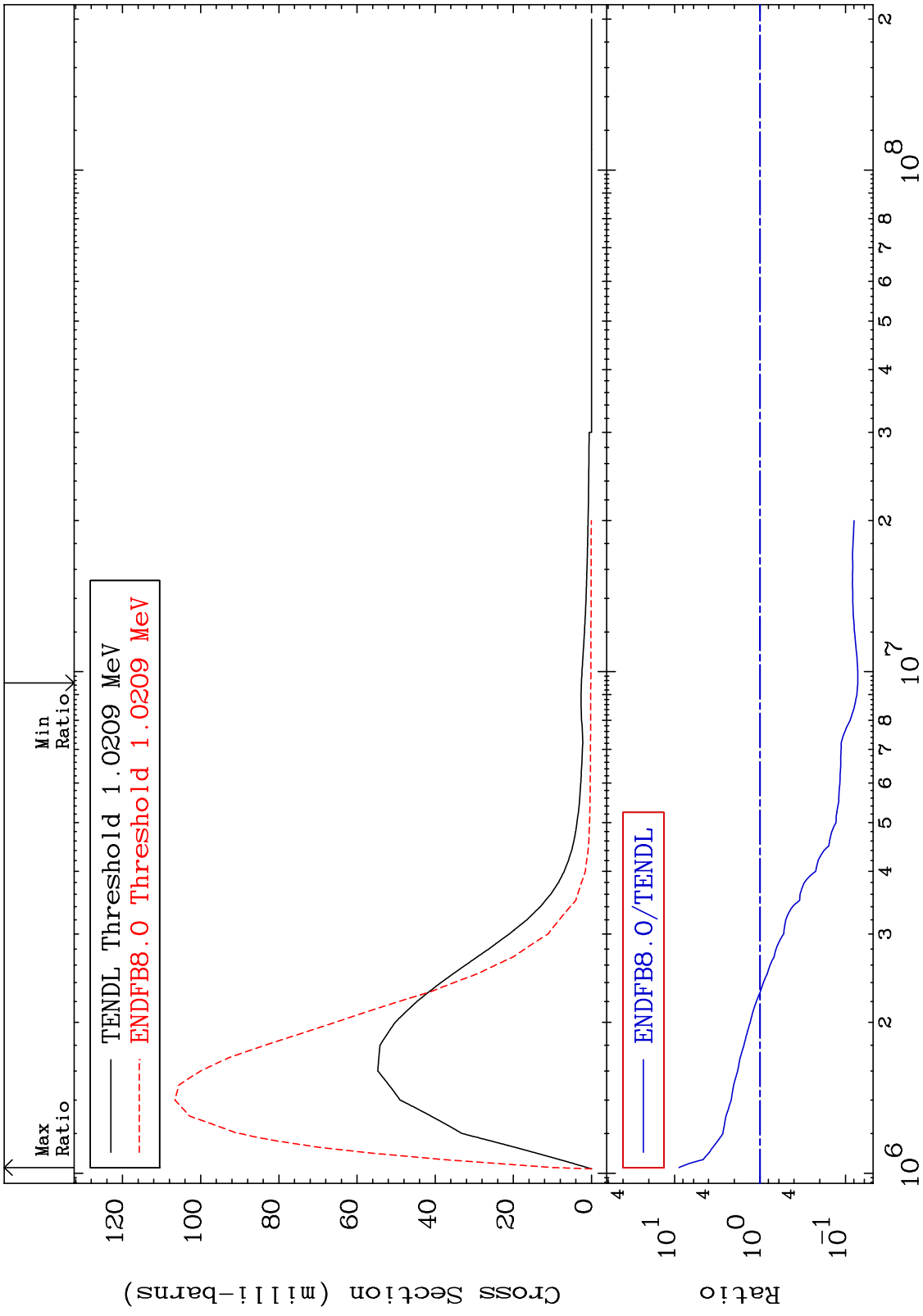
26 Incident Energy (eV) 90-Th-228

MAT 9028 MT= 67 (n,n') Level Cross Section 90-Th-228 -95.75 To 14.84 %



27 Incident Energy (eV) 90-Th-228

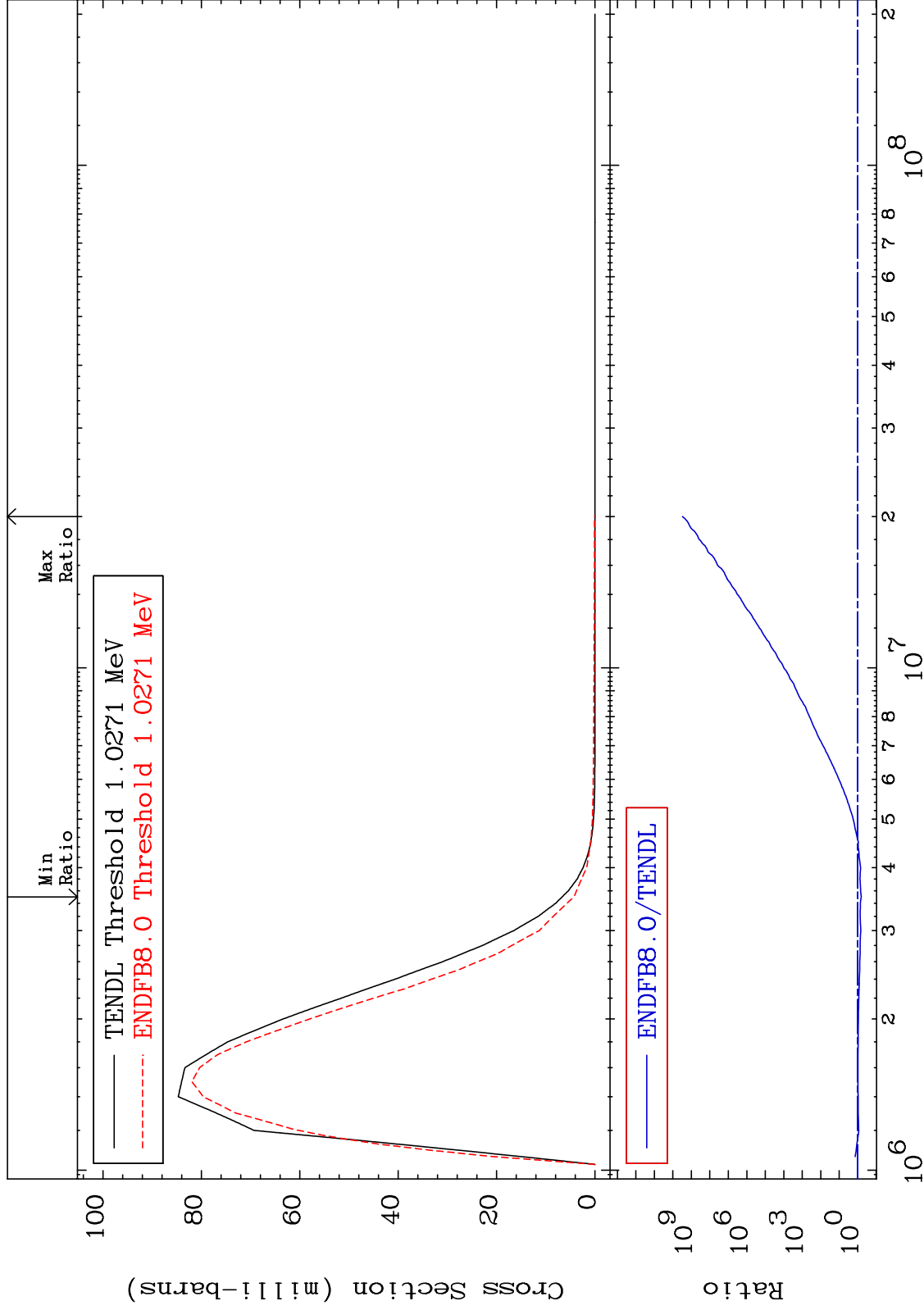
MAT 9028 MT= 68 (n,n') Level Cross Section 90-Th-228  
 -92.83 To 786.2 %



MAT 9028

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

90-Th-228  
-36.27 To 9999. %

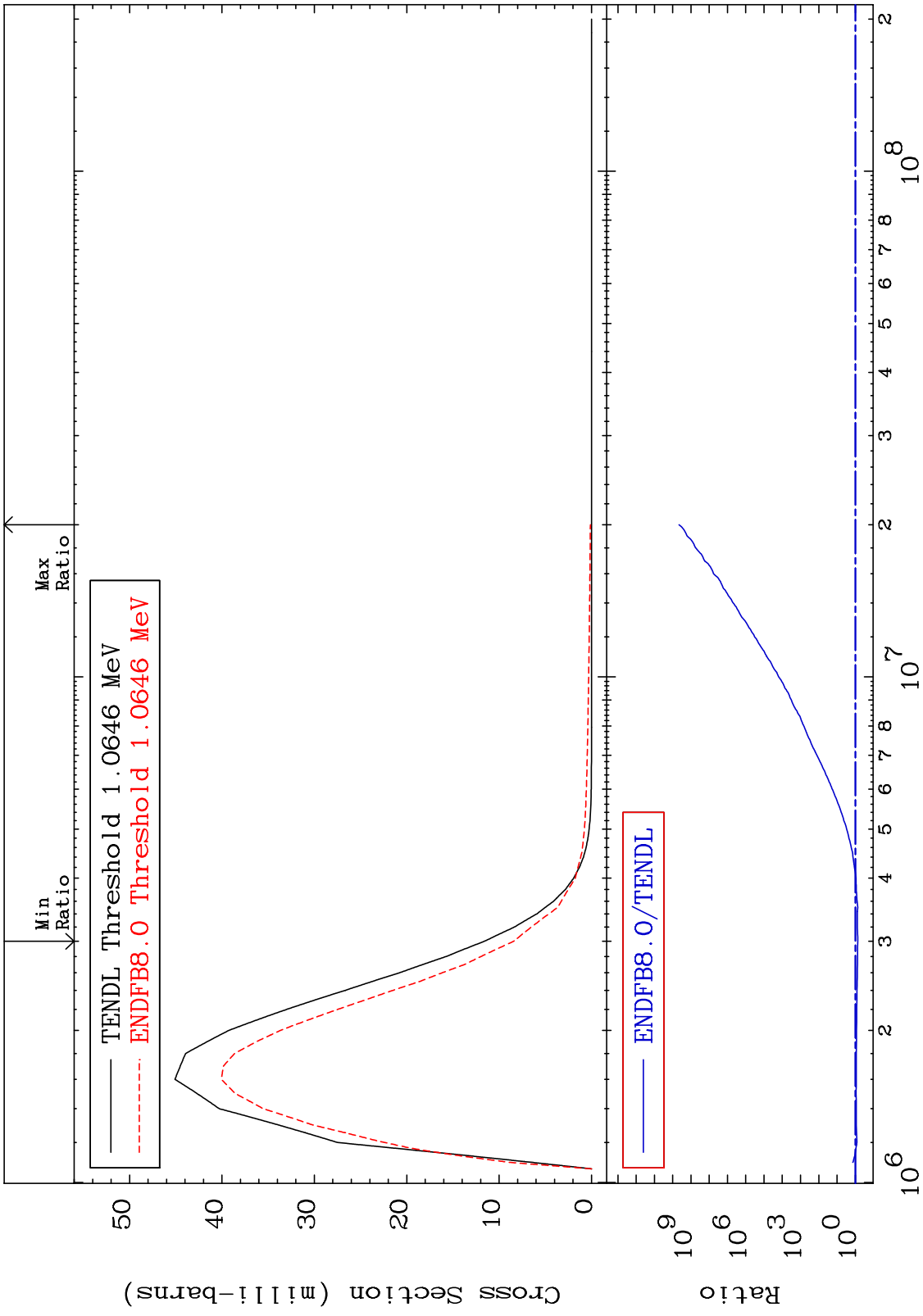


29

Incident Energy (eV)

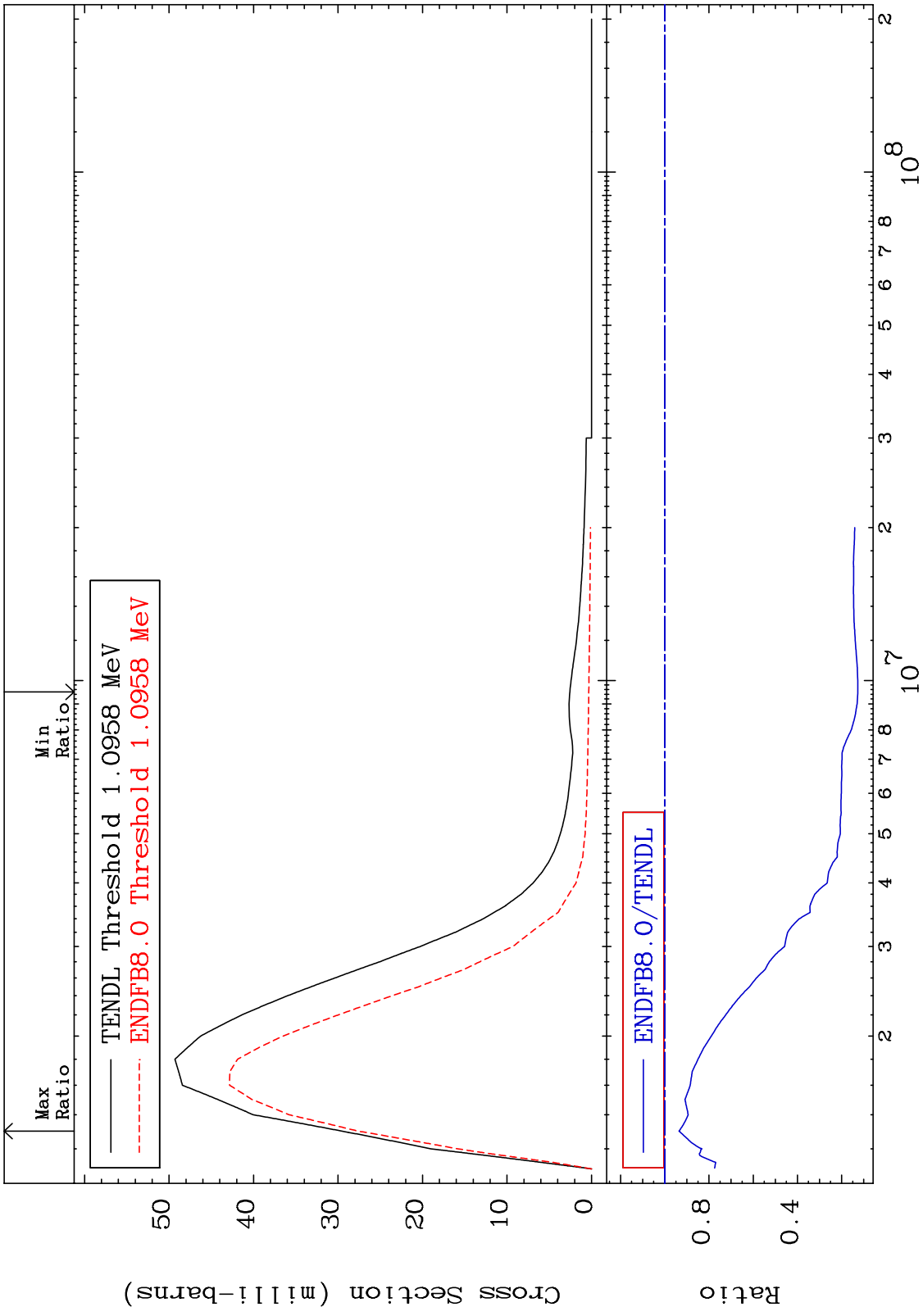
90-Th-228

MAT 9028 MT= 70 (n,n') Level Cross Section 90-Th-228 -27.36 To 9999. %



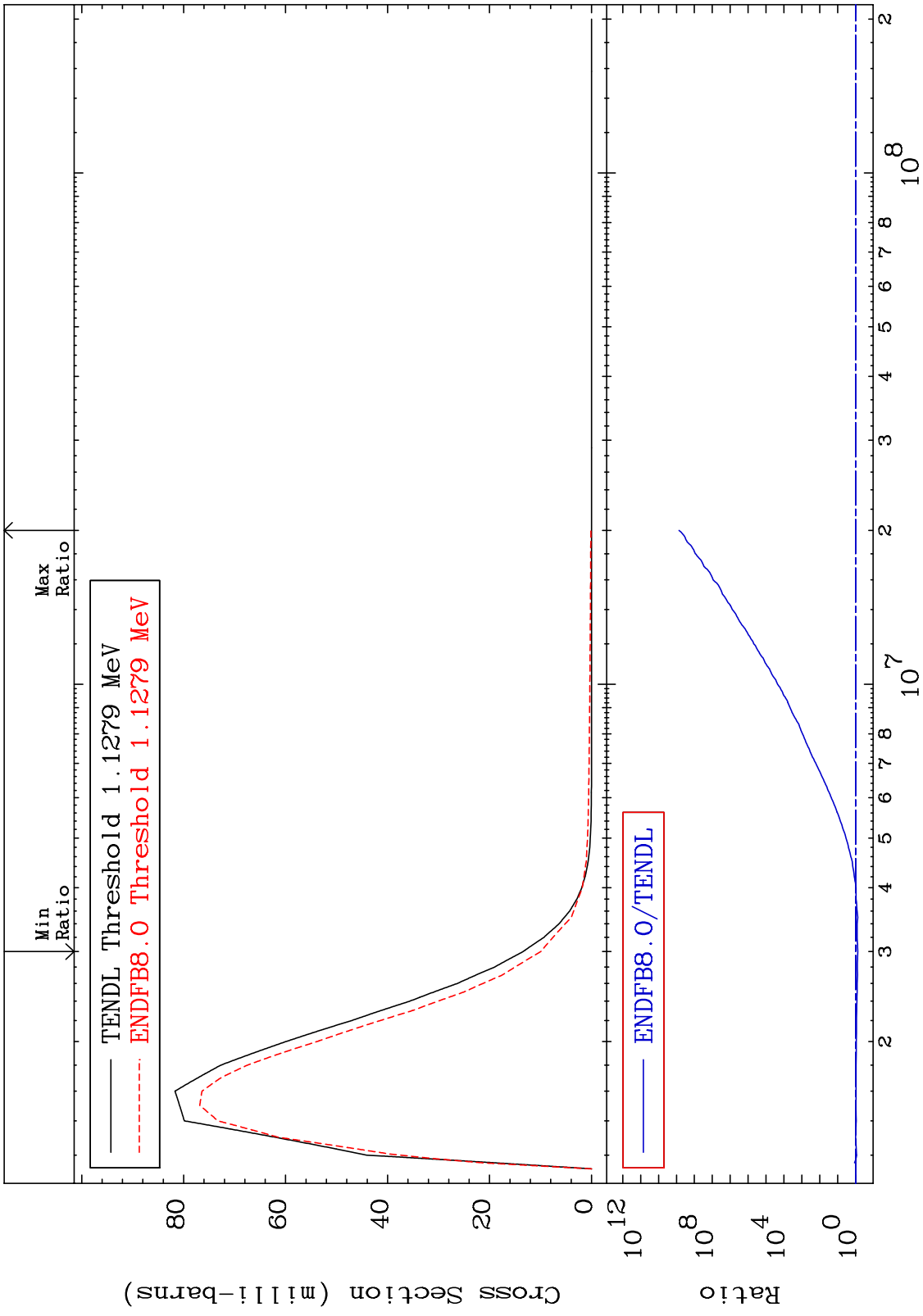
30 Incident Energy (eV) 90-Th-228

MAT 9028 MT= 71 (n,n') Level Cross Section 90-Th-228 -87.33 To -6.455%

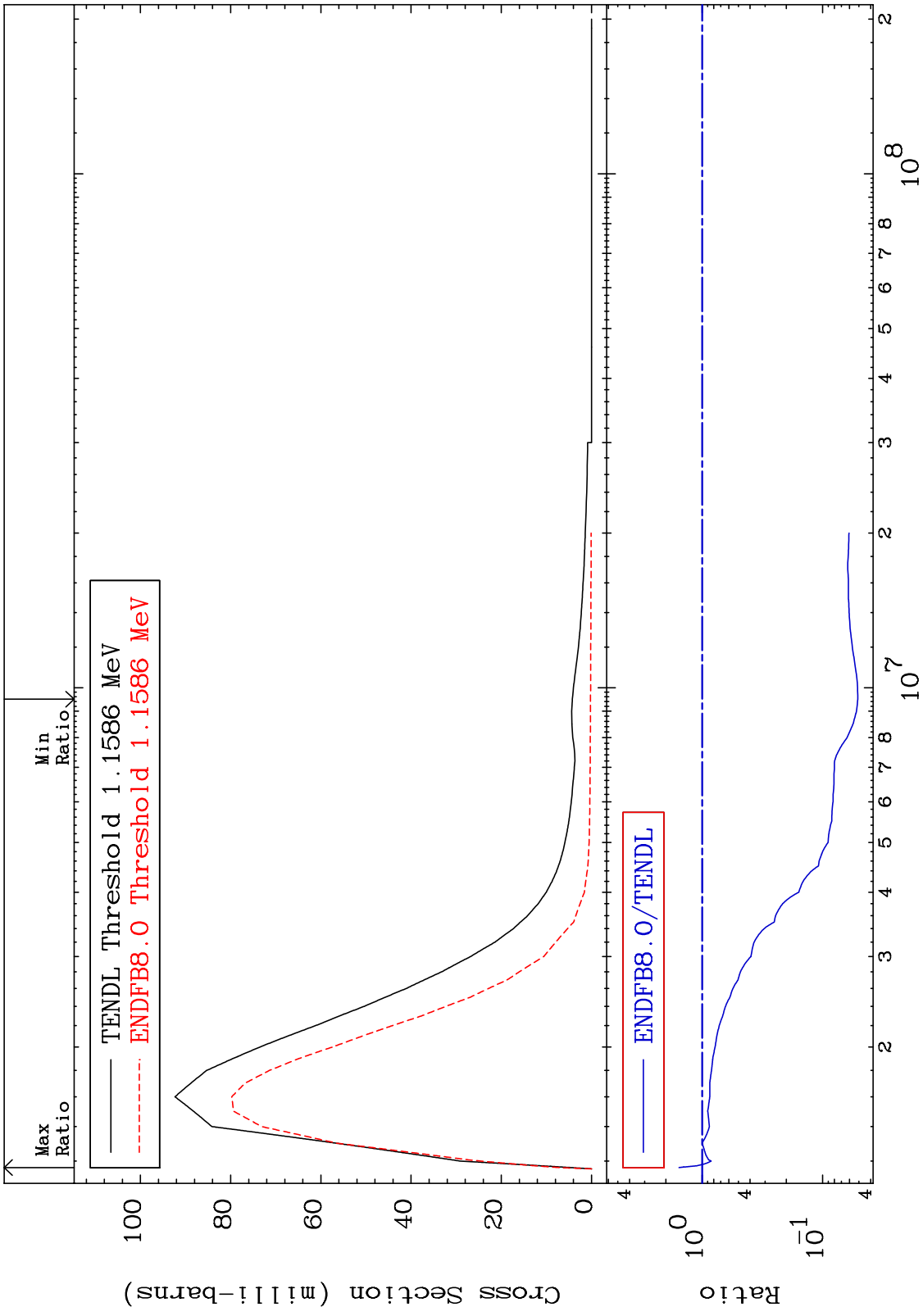




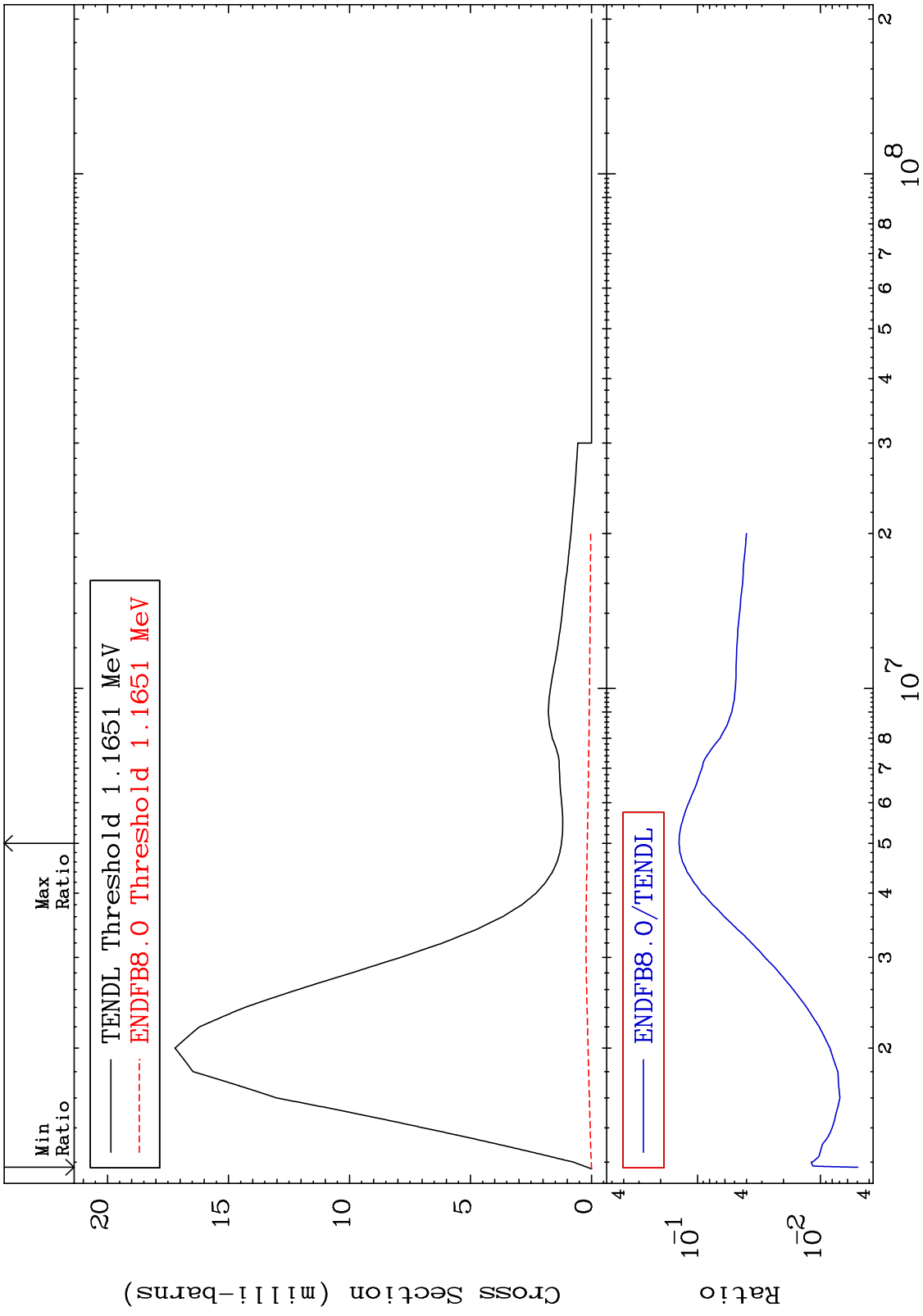
MAT 9028 MT= 72 (n,n') Level Cross Section 90-Th-228  
 -25.94 To 9999. %



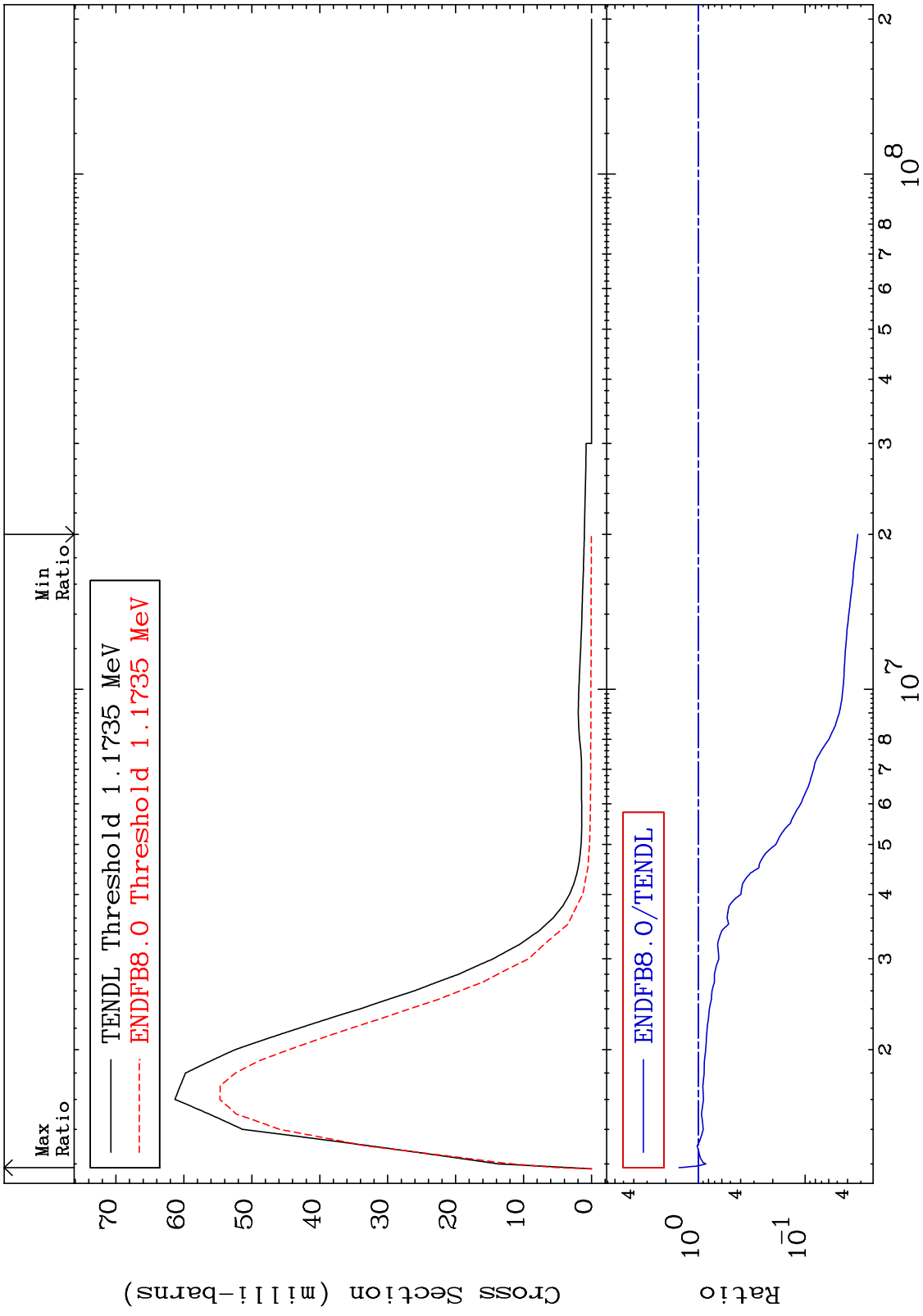
MAT 9028 MT= 73 (n,n') Level Cross Section 90-Th-228 -94.89 To 55.42 %



MAT 9028 MT= 74 (n,n') Level Cross Section 90-Th-228 -99.51 To -85.83%



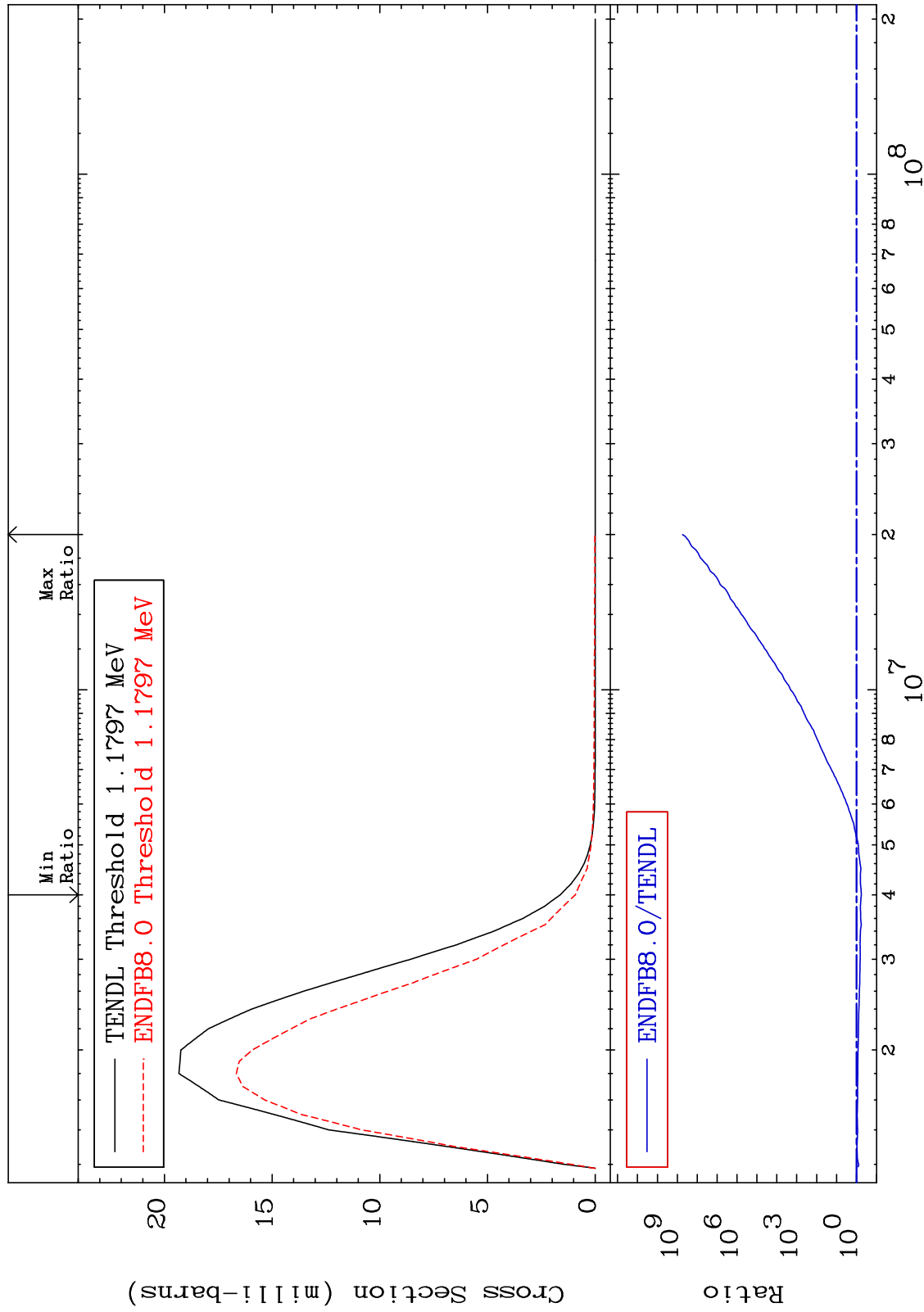
MAT 9028 MT= 75 (n,n') Level Cross Section 90-Th-228 -96.79 To 50.77 %



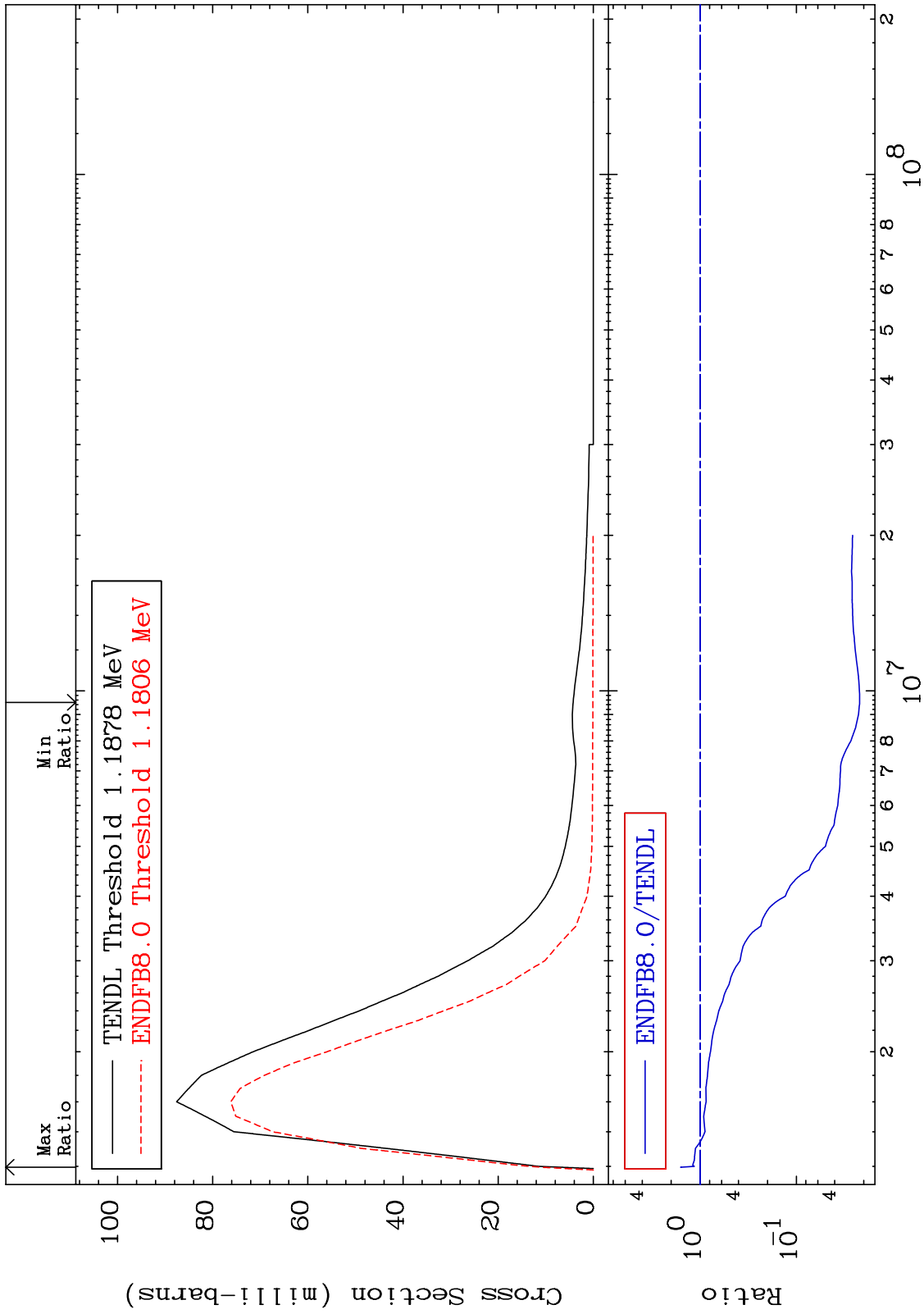
MAT 9028

MT= 76 (n,n') Level  
Cross Section

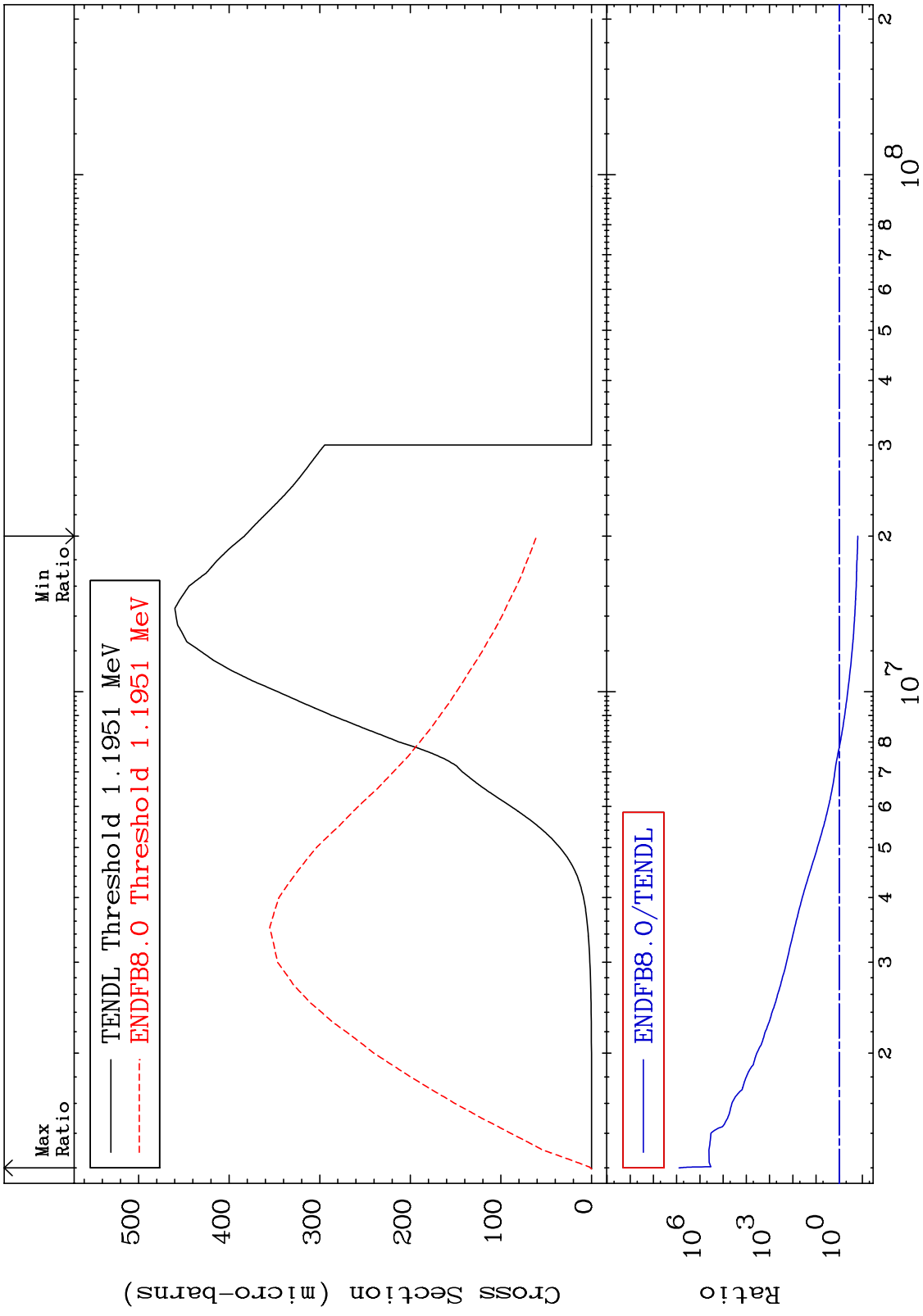
90-Th-228  
-43.12 To 9999. %



MAT 9028 MT= 77 (n,n') Level Cross Section 90-Th-228 -97.80 To 58.96 %



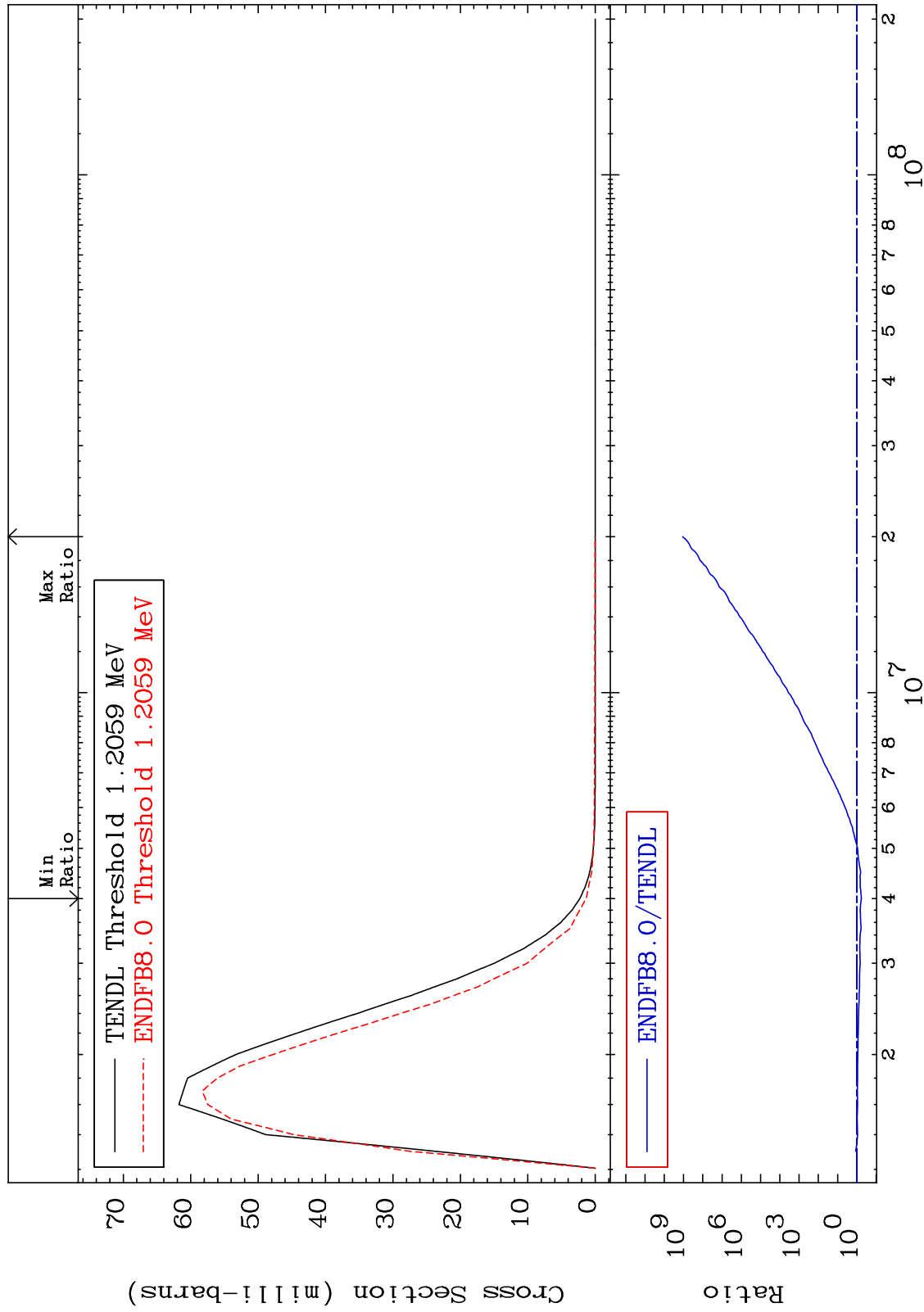
MAT 9028 MT= 78 (n,n') Level Cross Section 90-Th-228 -84.20 To 9999. %



MAT 9028

MT= 79 (n,n') Level  
Cross Section

90-Th-228  
-41.28 To 9999. %

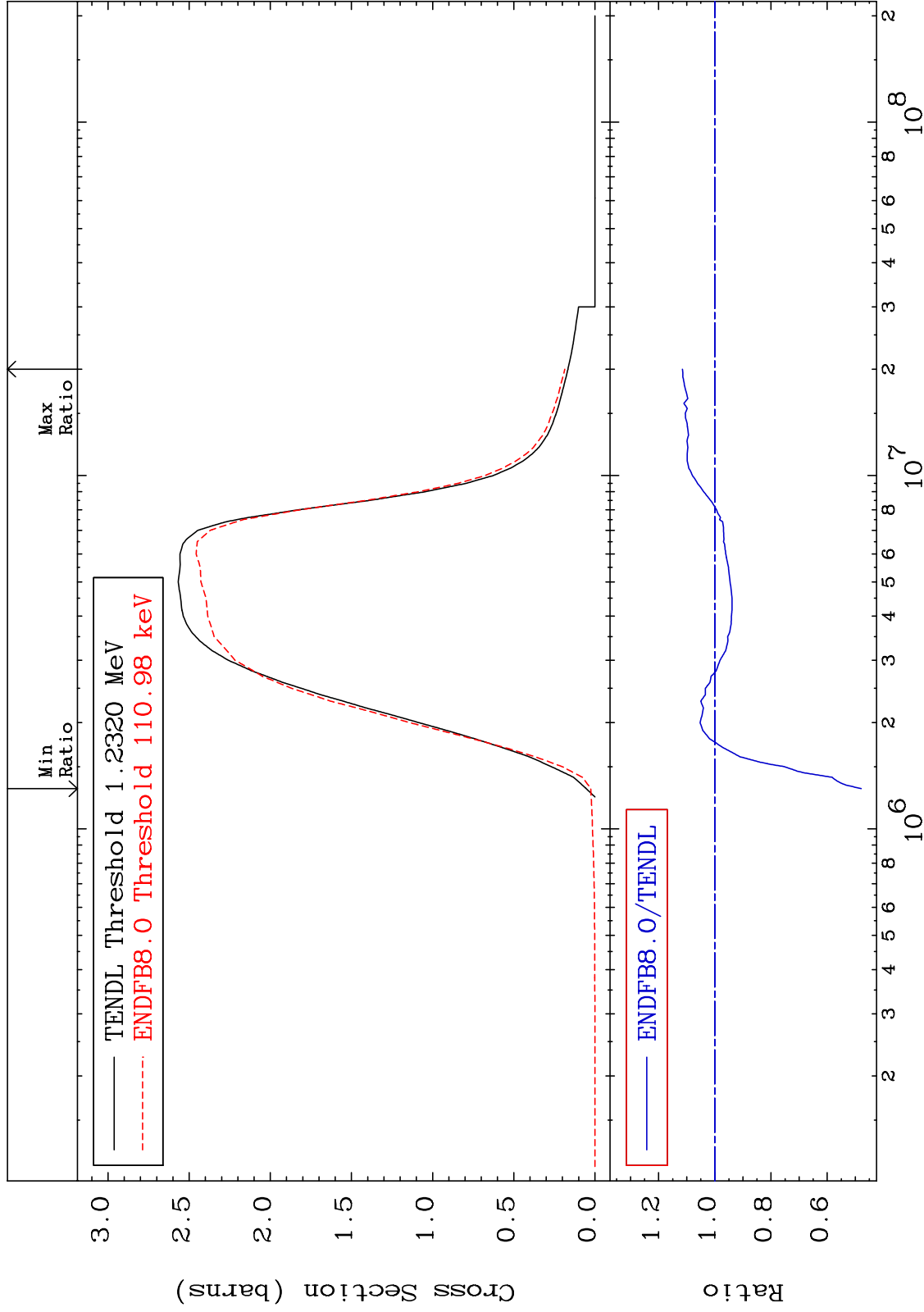




MAT 9028

(n, n') Continuum  
Cross Section

90-Th-228  
-52.14 To 11.51 %



MAT 9028

(n,  $\gamma$ )

90-Th-228

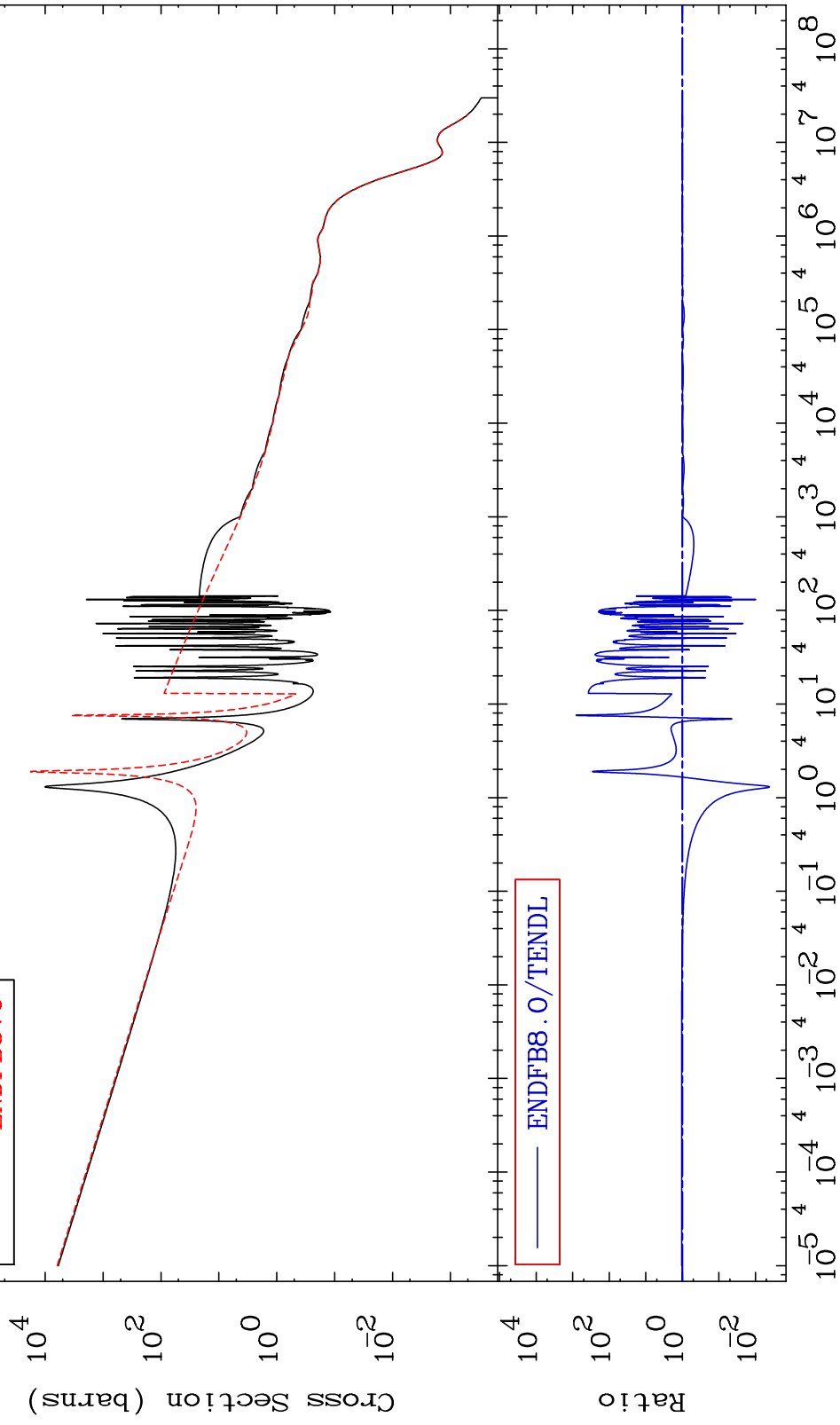
-99.59 To 9999. %

Cross Section

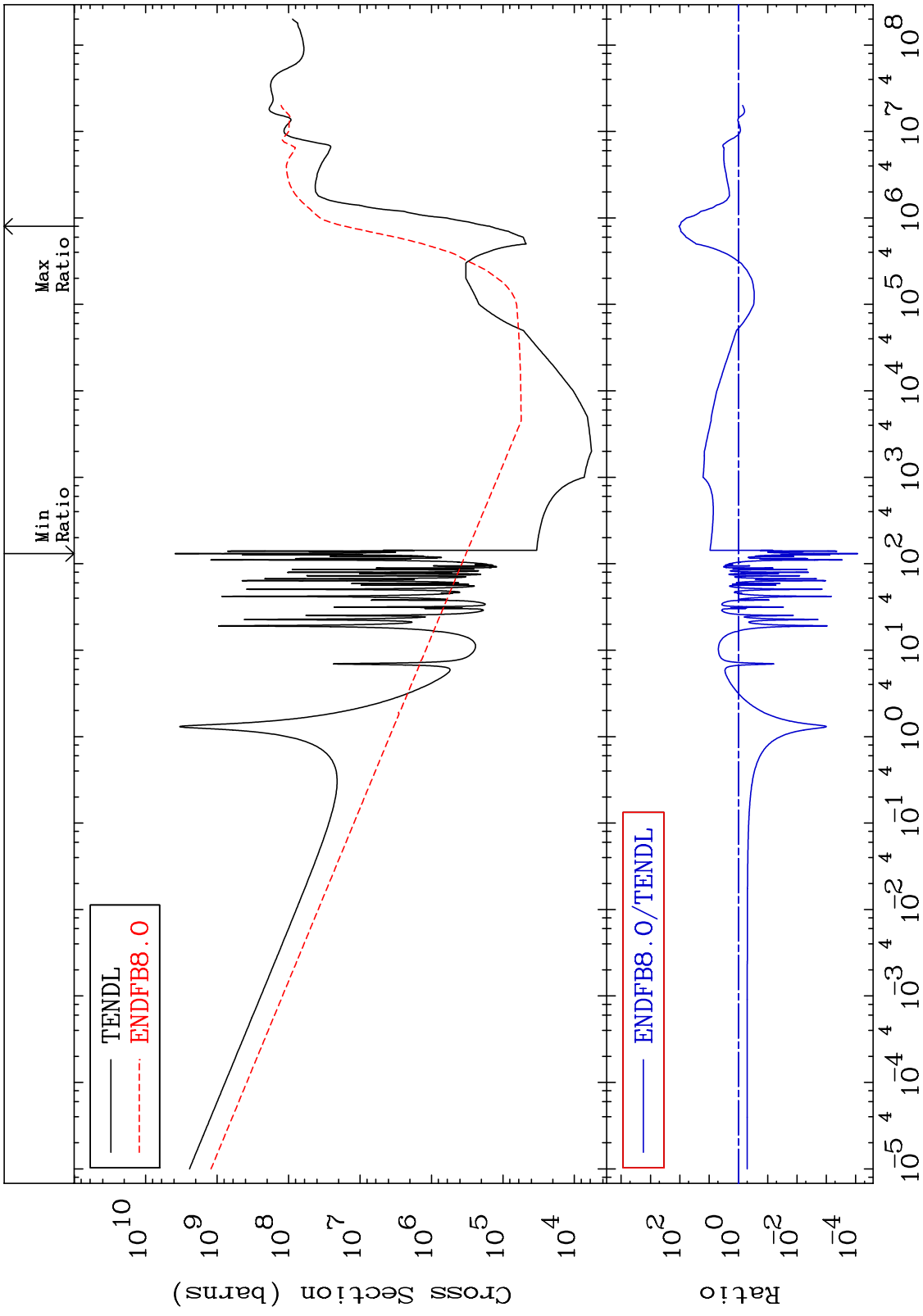
Min Ratio

Max Ratio

TENDL  
ENDFB8.0



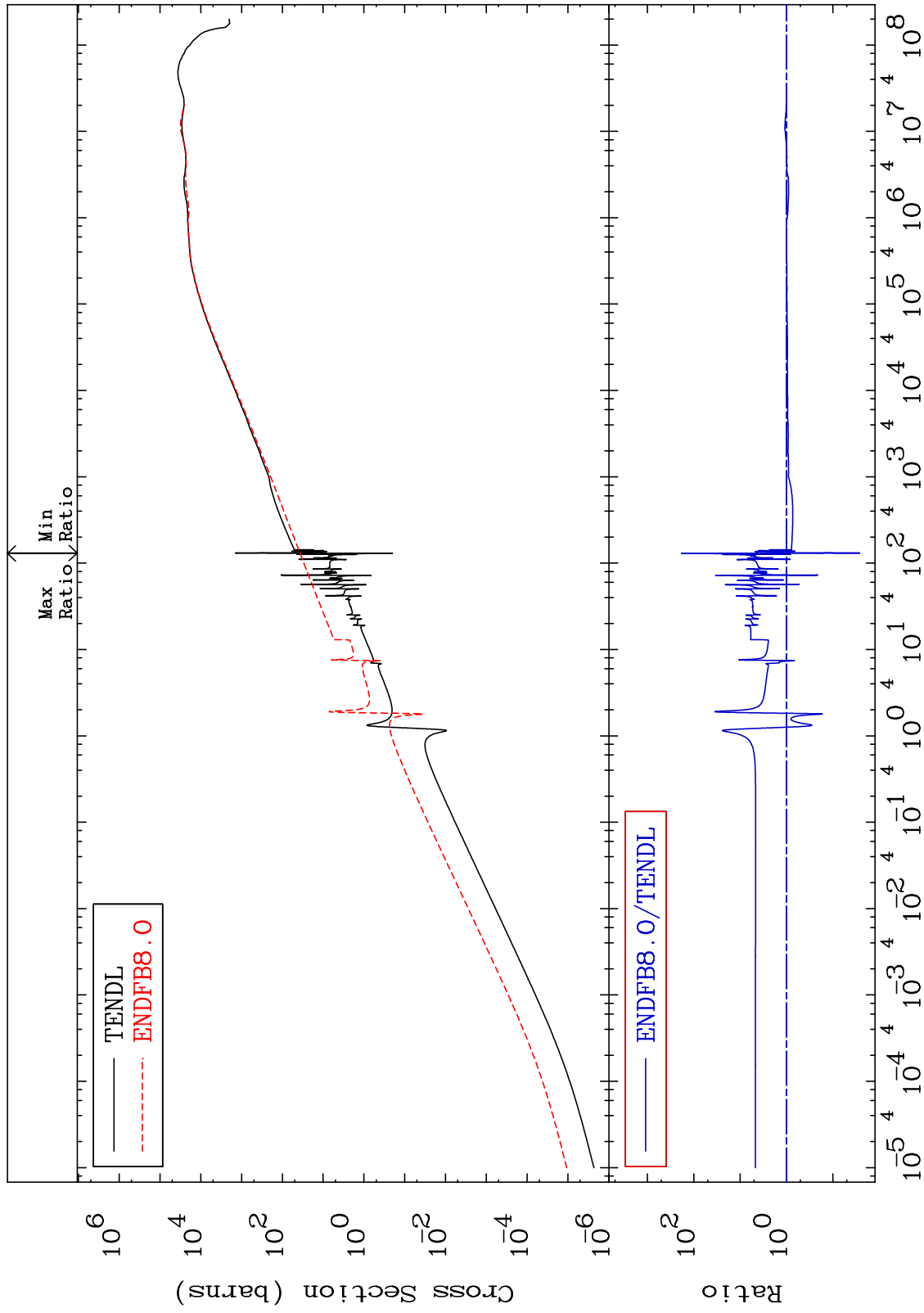
MAT 9028 Kerma total (eV-barns) Cross Section 90-Th-228 -99.99 To 9999. %



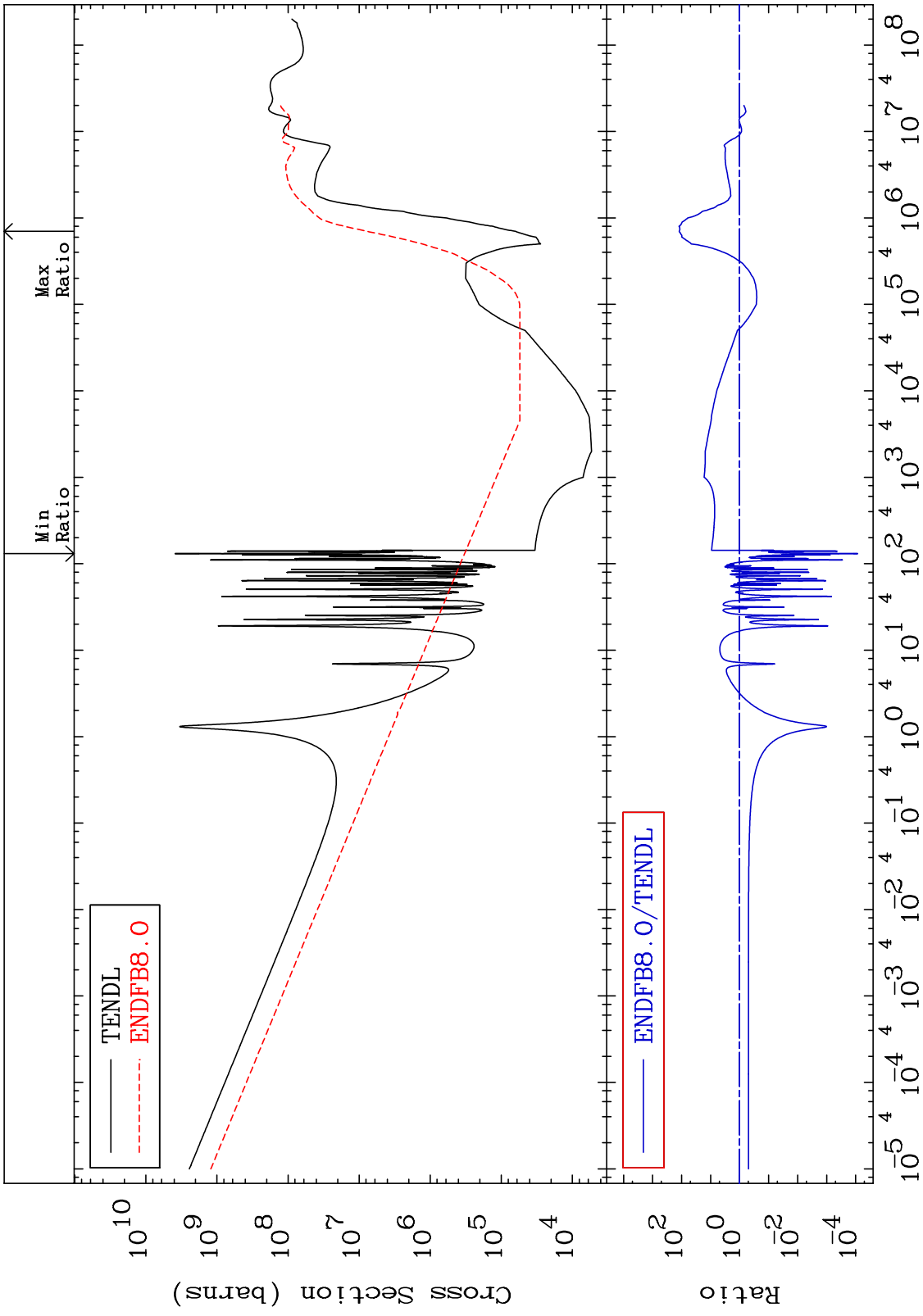
MAT 9028

Kerma elastic  
Cross Section

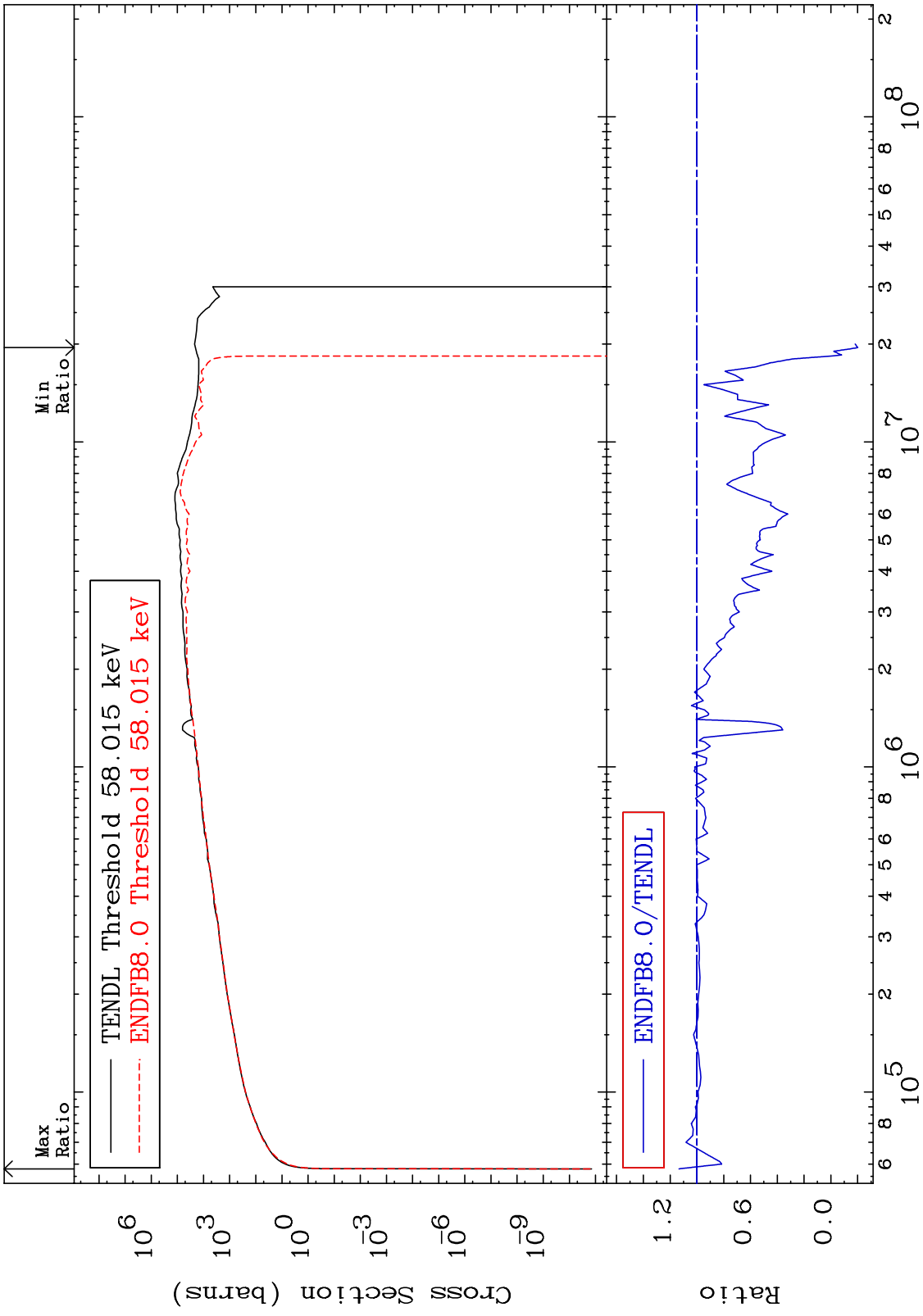
90-Th-228  
-97.38 To 9999. %



MAT 9028 Kerma non-elastic (all but mt.2) Cross Section 90-Th-228  
 -99.99 To 9999. %



MAT 9028 Kerma inelastic (mt51-91) 90-Th-228  
 -120.2 To 13.34 %



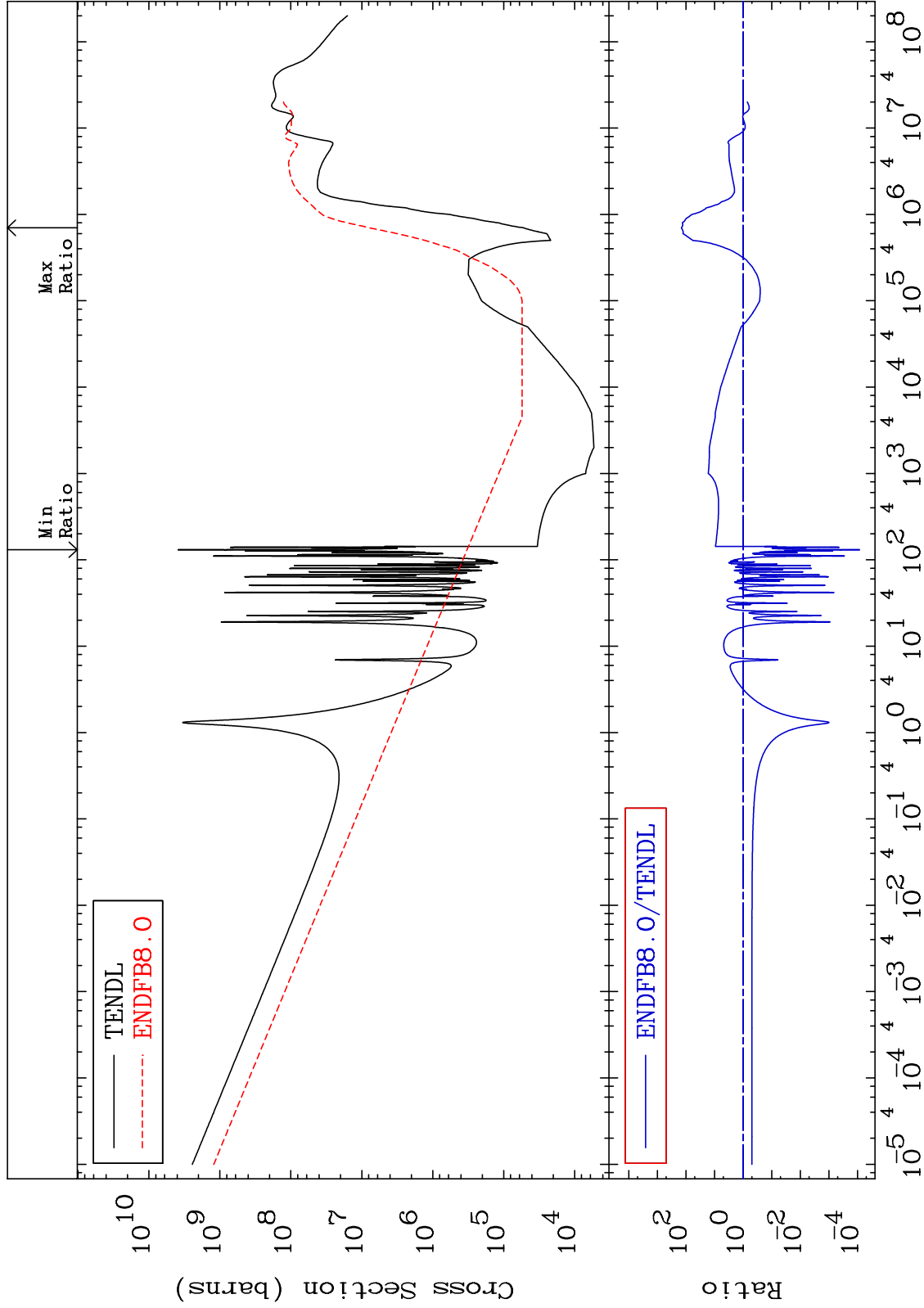
MAT 9028

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

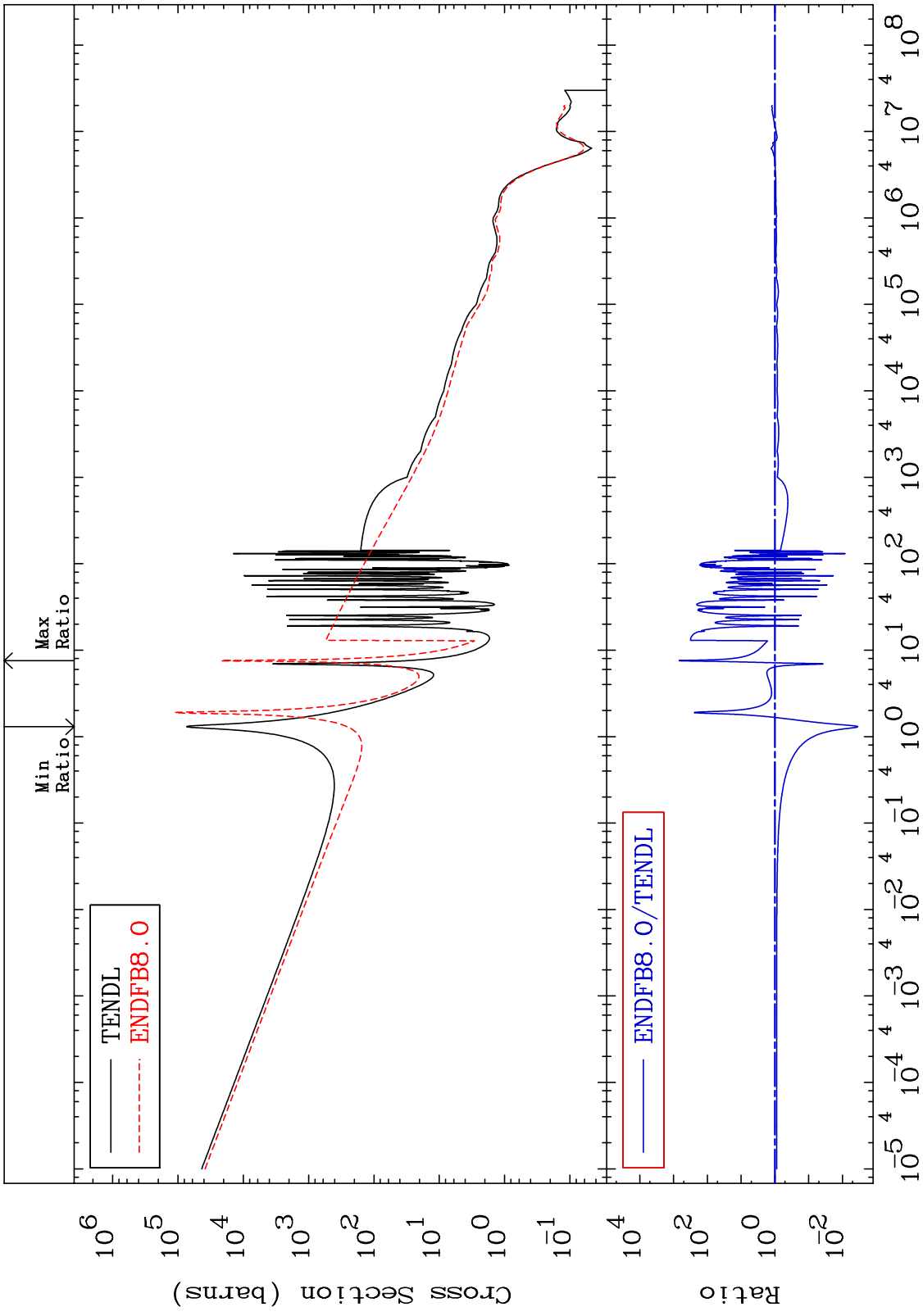
90-Th-228

-99.99 To 9999. %

Cross Section



MAT 9028 Kerma capture (mt102) 90-Th-228  
 Cross Section -99.65 To 9999. %

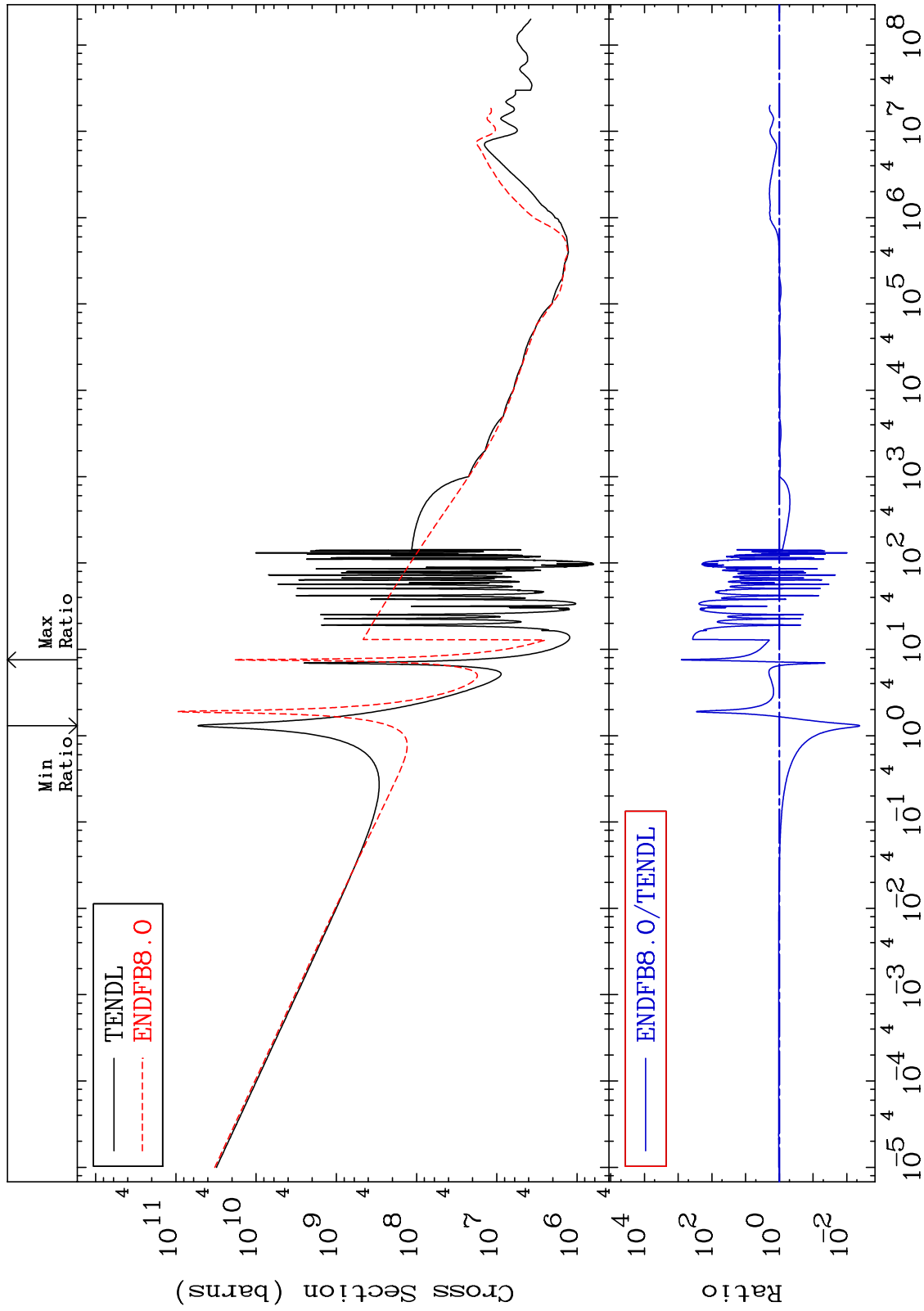




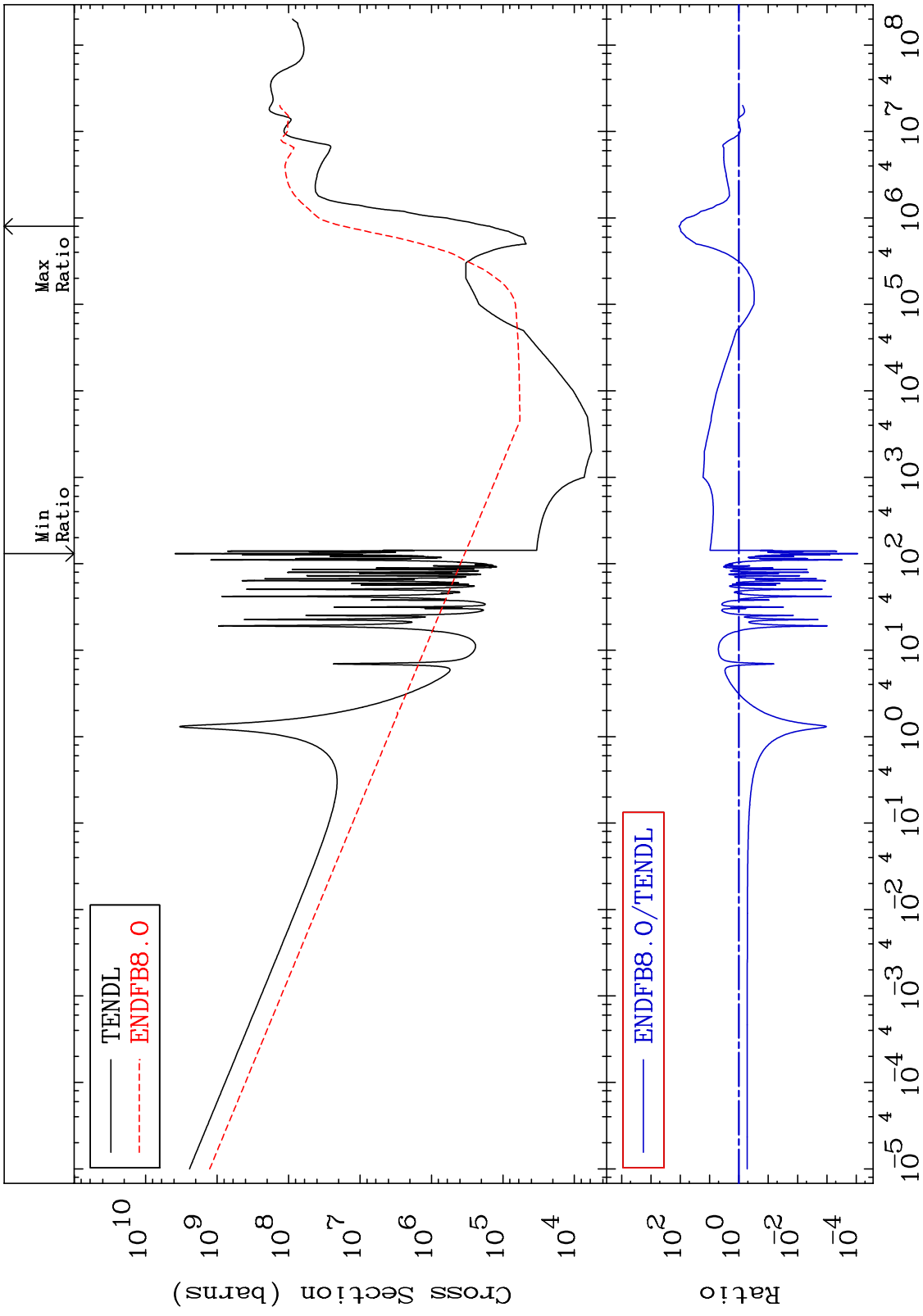
MAT 9028

Total photon (eV-barns)  
Cross Section

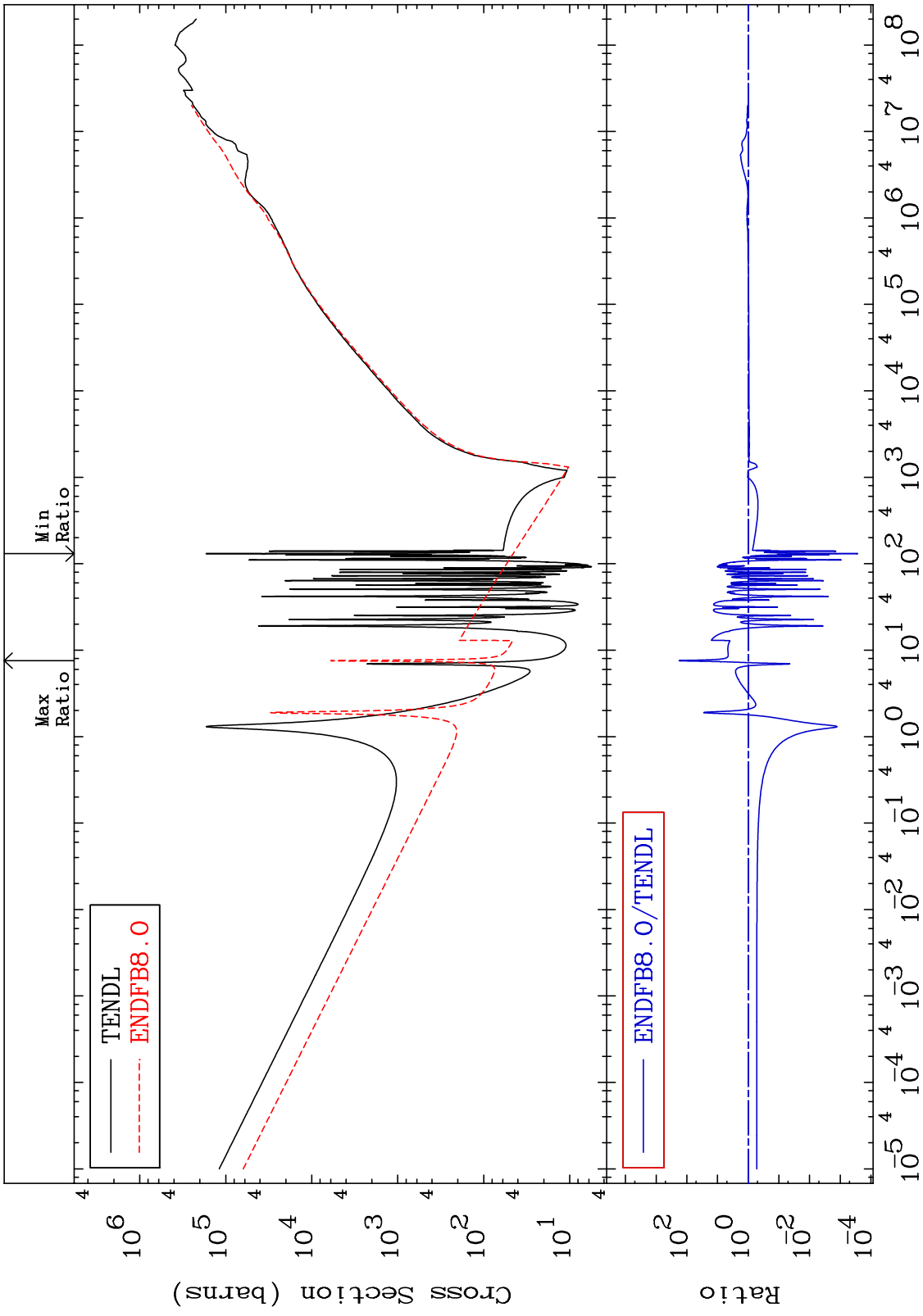
90-Th-228  
-99.59 To 9999. %



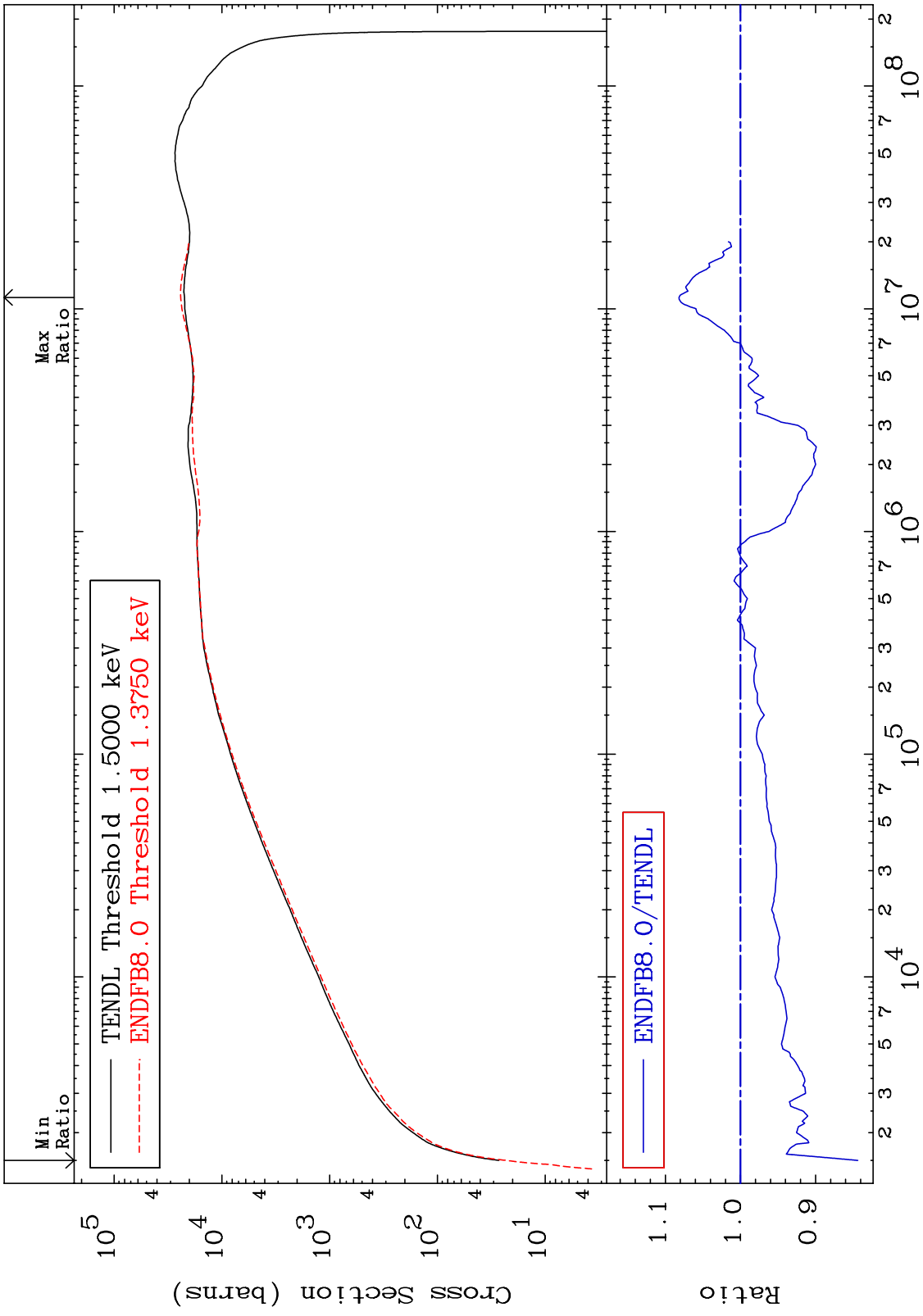
MAT 9028 Total kinematic kerma (high limit) Cross Section 90-Th-228 -99.99 To 9999. %



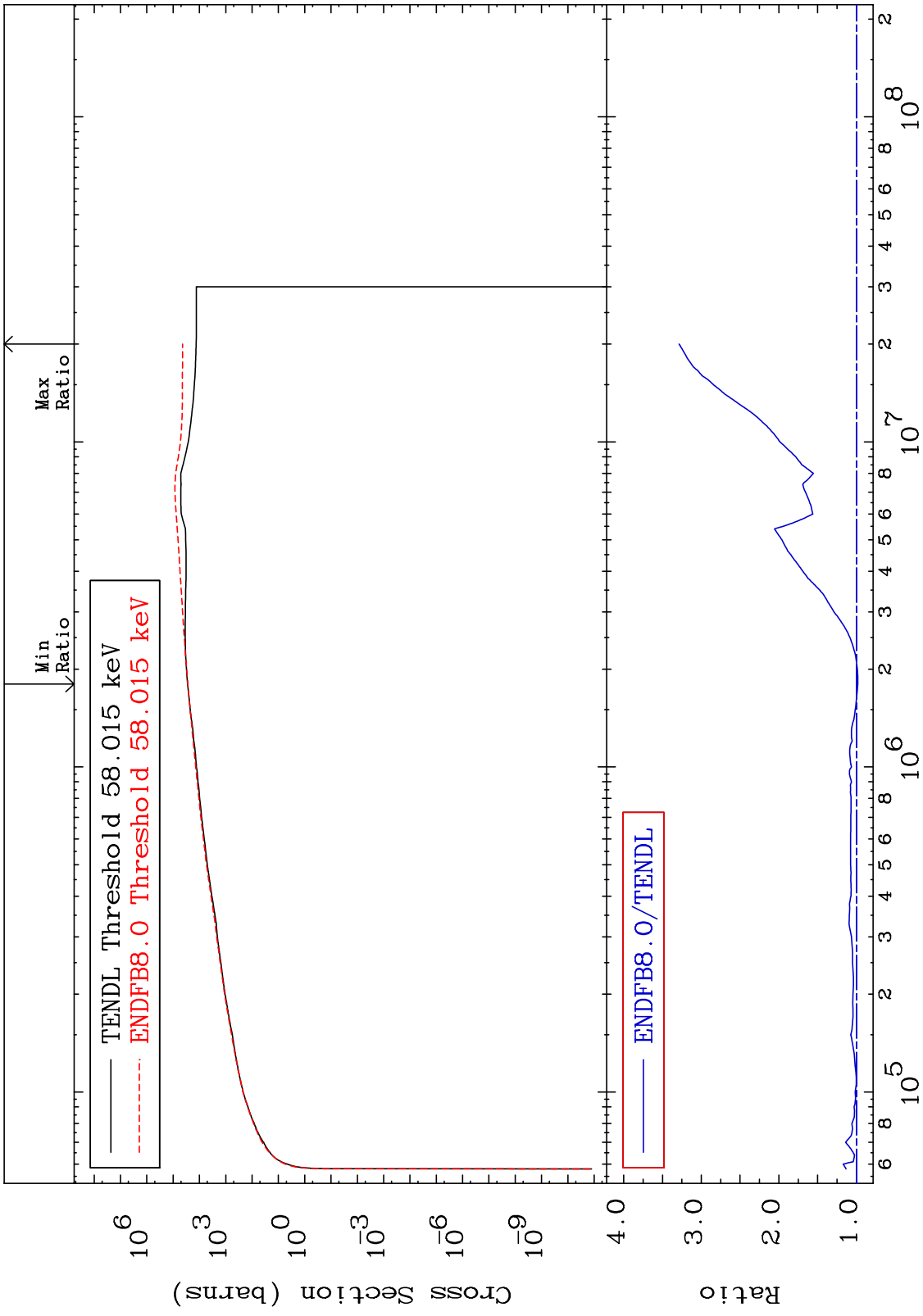
MAT 9028      Dpa total (eV-barns)      90-Th-228  
 Cross Section      -99.97 To 9999. %



MAT 9028      Dpa elastic (mt2)      90-Th-228  
 Cross Section      -15.63 To 8.176 %



MAT 9028      Dpa inelastic (mt51-91)      90-Th-228  
 Cross Section      -1.882 To 228.7 %



MAT 9028      Dpa disappearance (mt102 -120)      90-Th-228  
 Cross Section      -100.0 To 9999. %

