

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

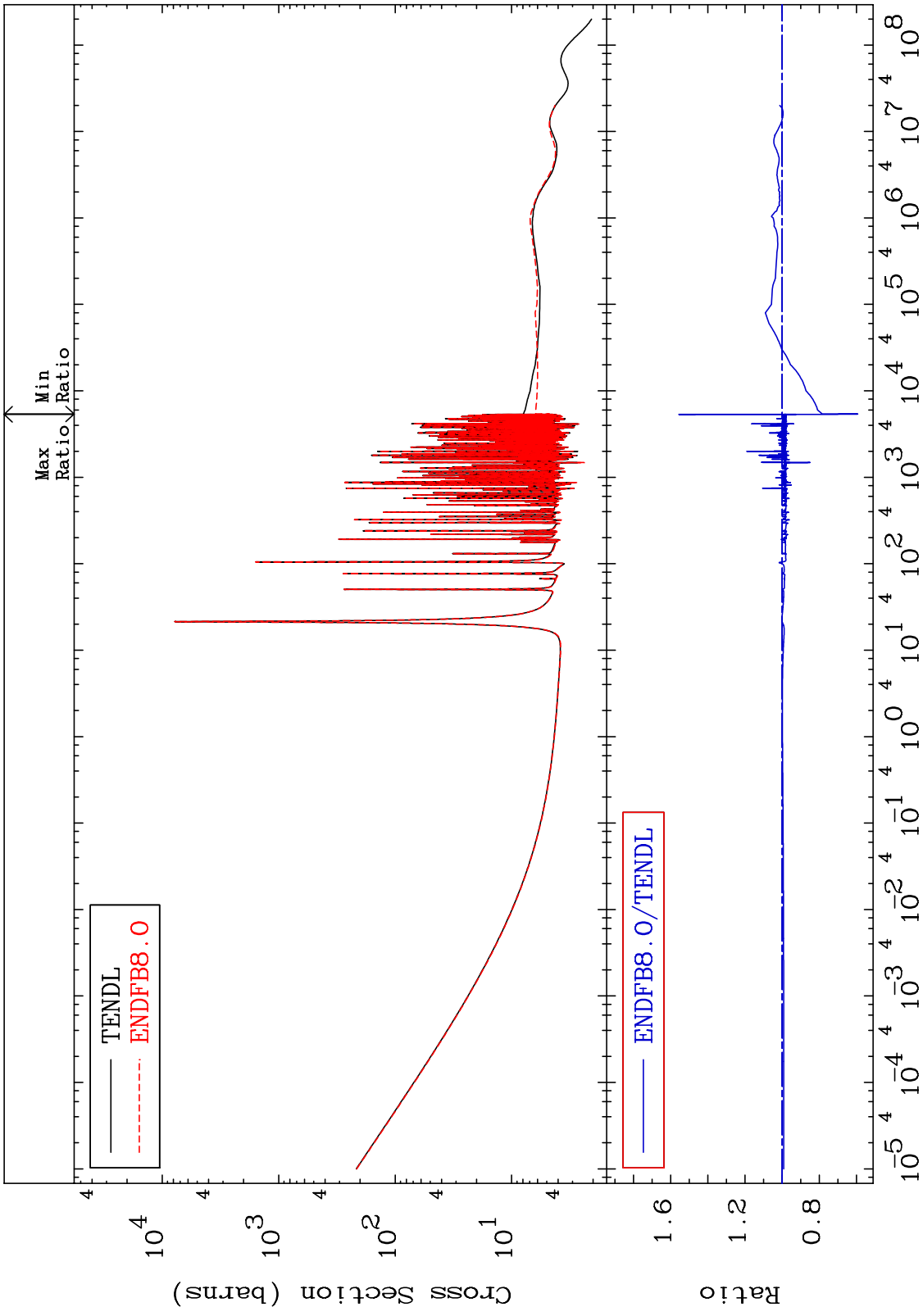
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5131 51-Sb-123
Total Cross Section -40.70 To 55.51 %

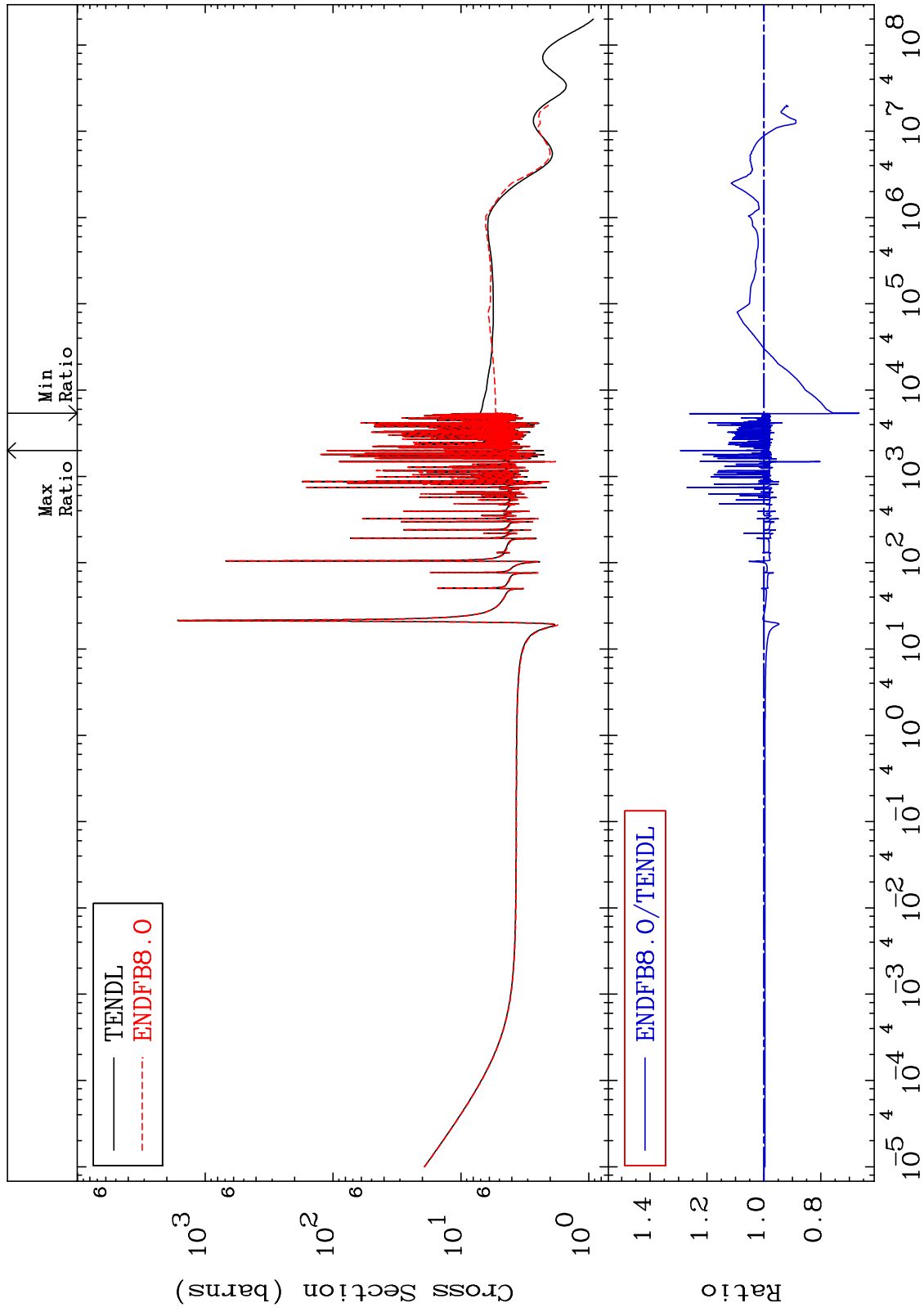


51-Sb-123
Incident Energy (eV)

MAT 5131

Elastic
Cross Section

51-Sb-123
-33.38 To 29.26 %



2

Incident Energy (eV)

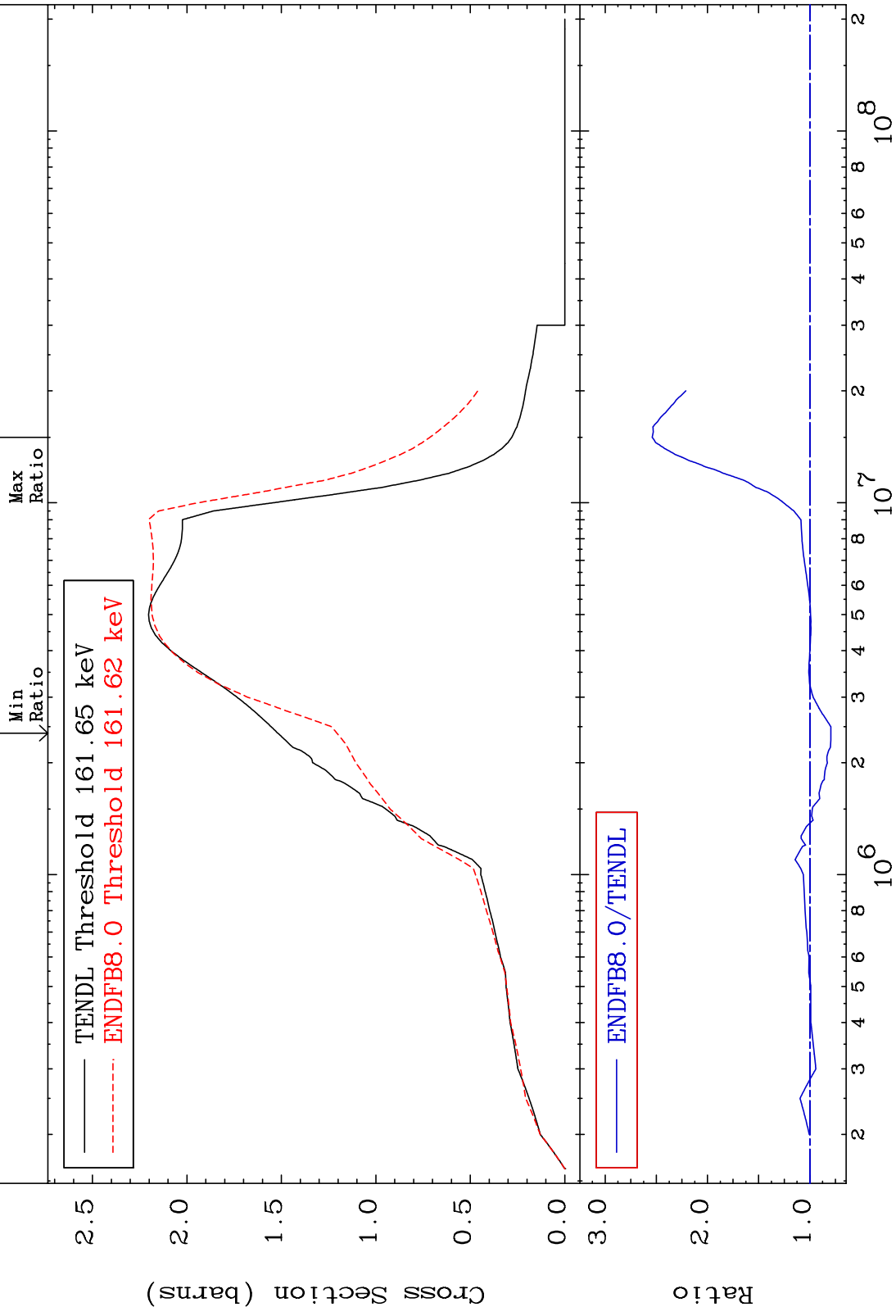
51-Sb-123

MAT 5131

Inelastic
Cross Section

51-Sb-123

-20.61 To 154.0 %



3

Incident Energy (eV)

51-Sb-123

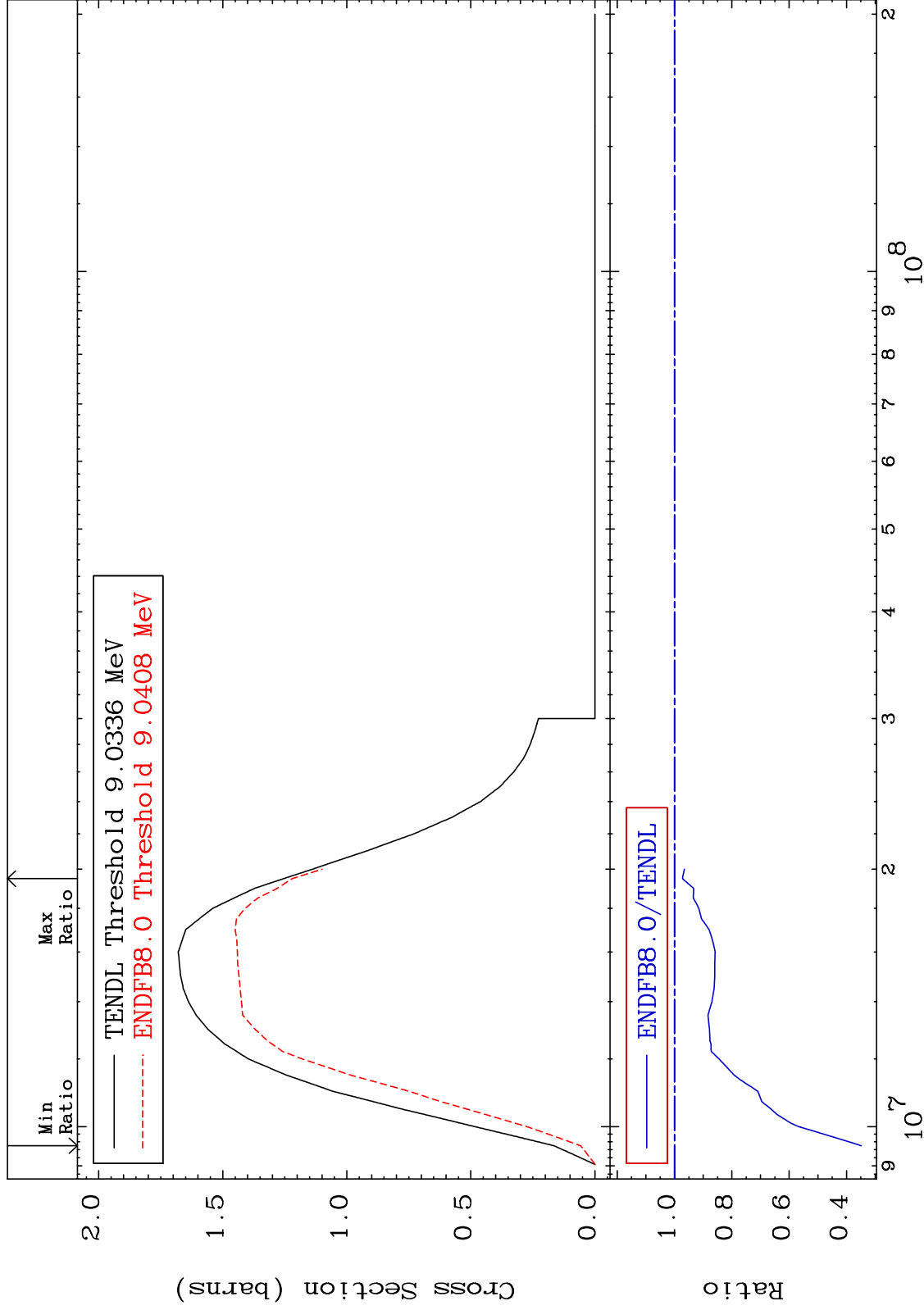
MAT 5131

(n,2n)

51-Sb-123

-65.15 To -2.774%

Cross Section



4

Incident Energy (eV)

51-Sb-123

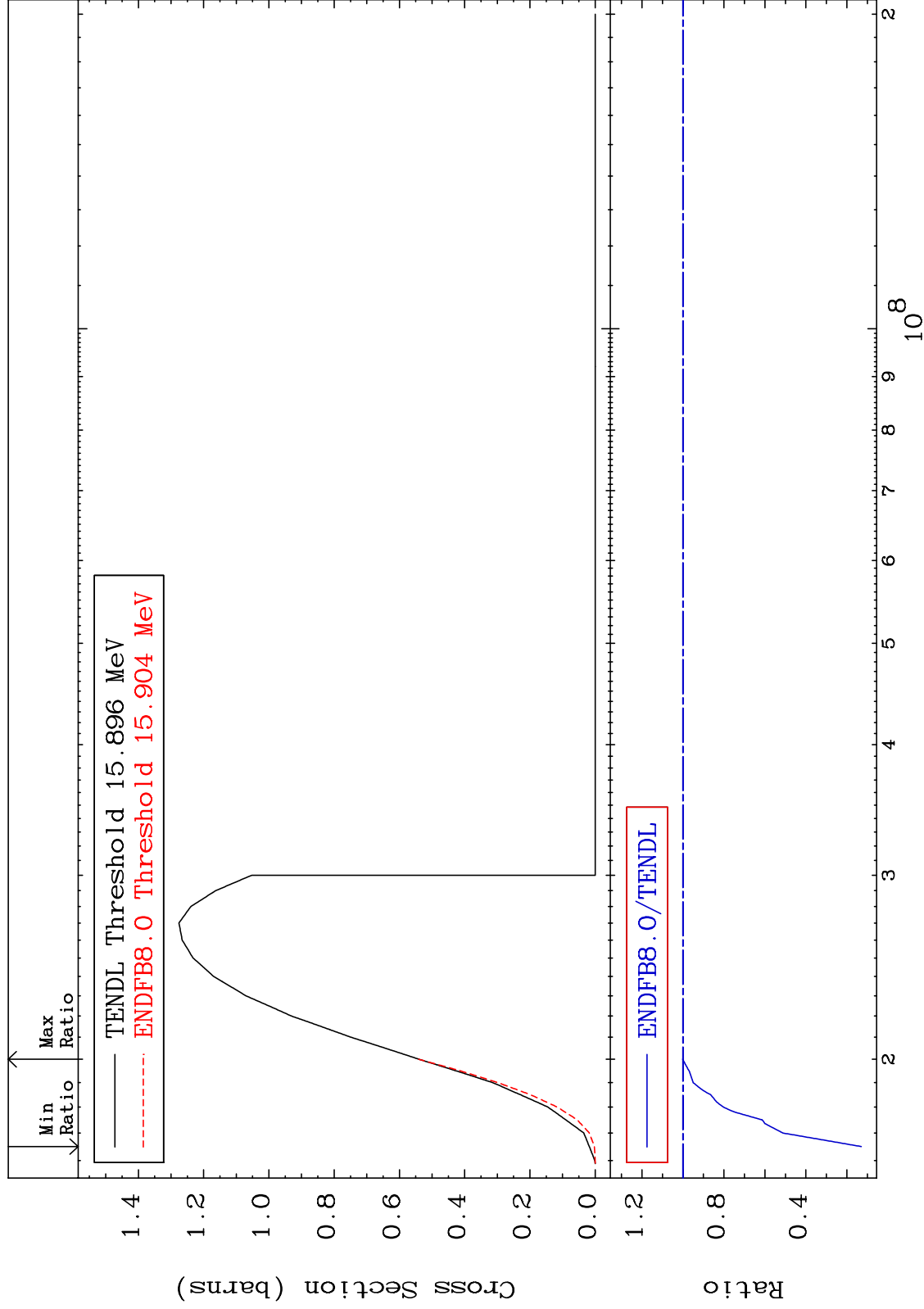
MAT 5131

(n,3n)

51-Sb-123

Cross Section

-87.07 To 0.133 %



5

Incident Energy (eV)

51-Sb-123

MAT 5131

(n, n') α

51-Sb-123

-74.56 To -51.23%

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 3.9821 MeV
ENDFB8.0 Threshold 15.904 MeV

Cross Section (milli-barns)

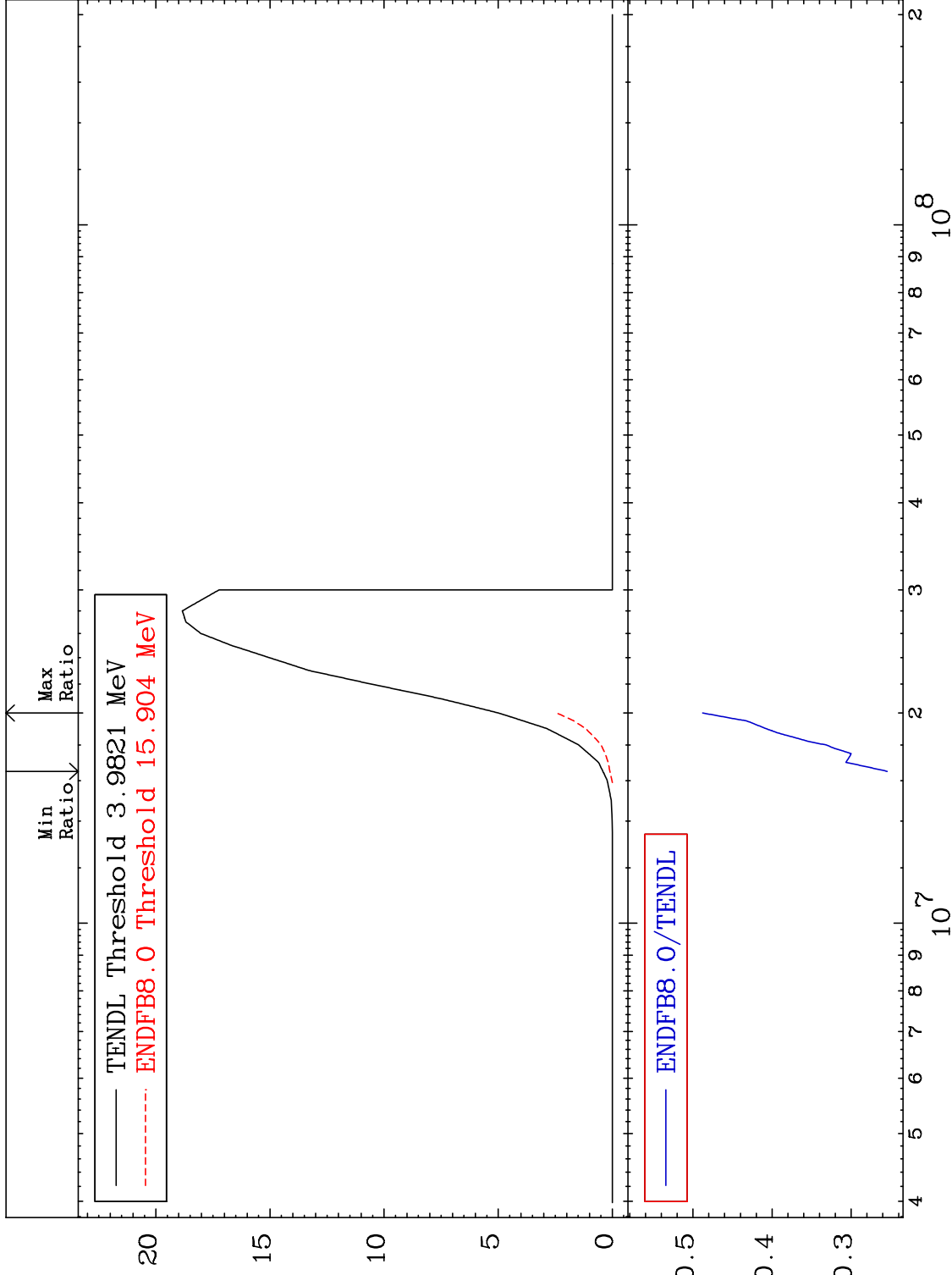
ENDFB8.0/TENDL

Ratio

6

Incident Energy (eV)

51-Sb-123



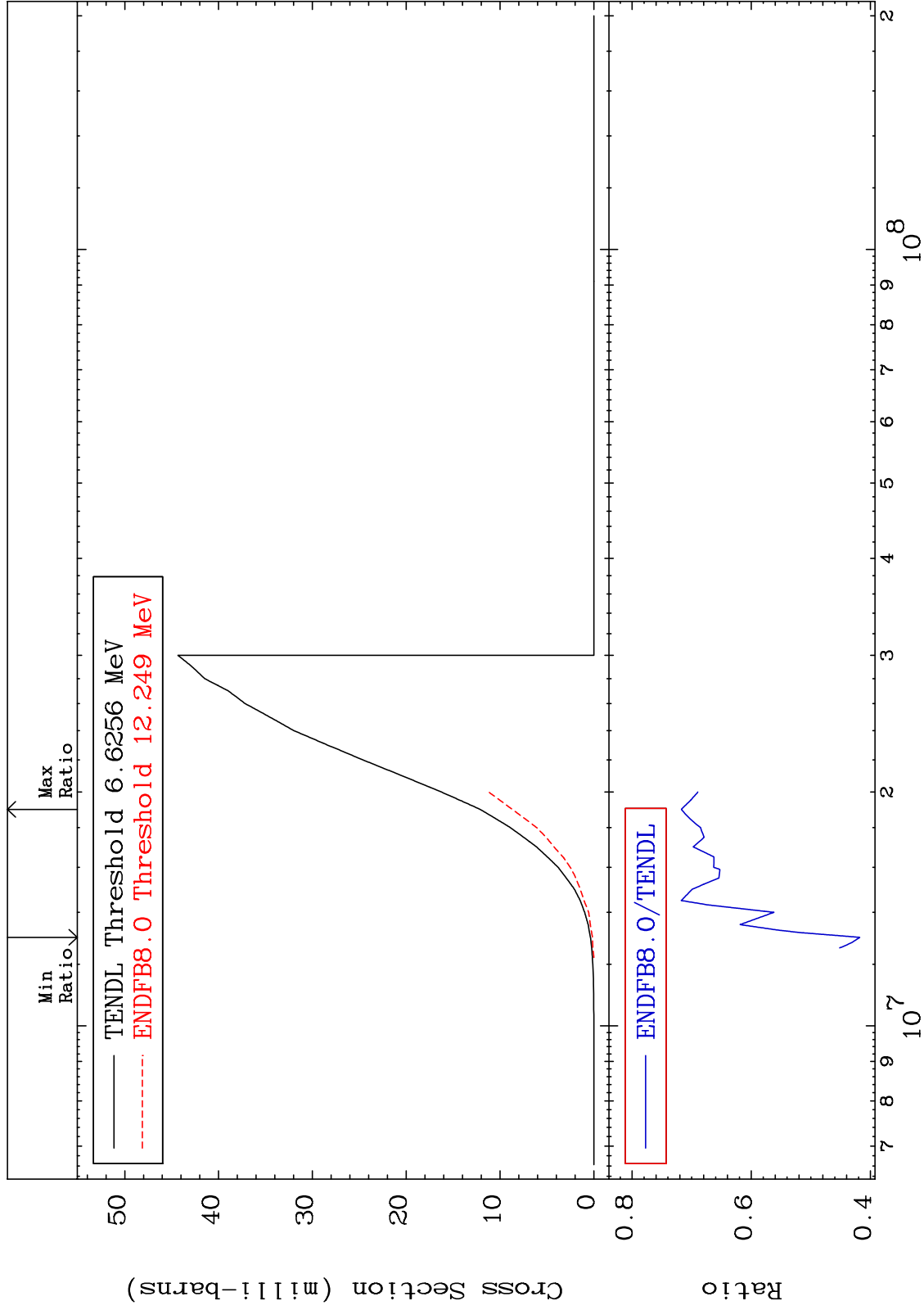
MAT 5131

(n,n') p

51-Sb-123

Cross Section

-58.20 To -28.24%

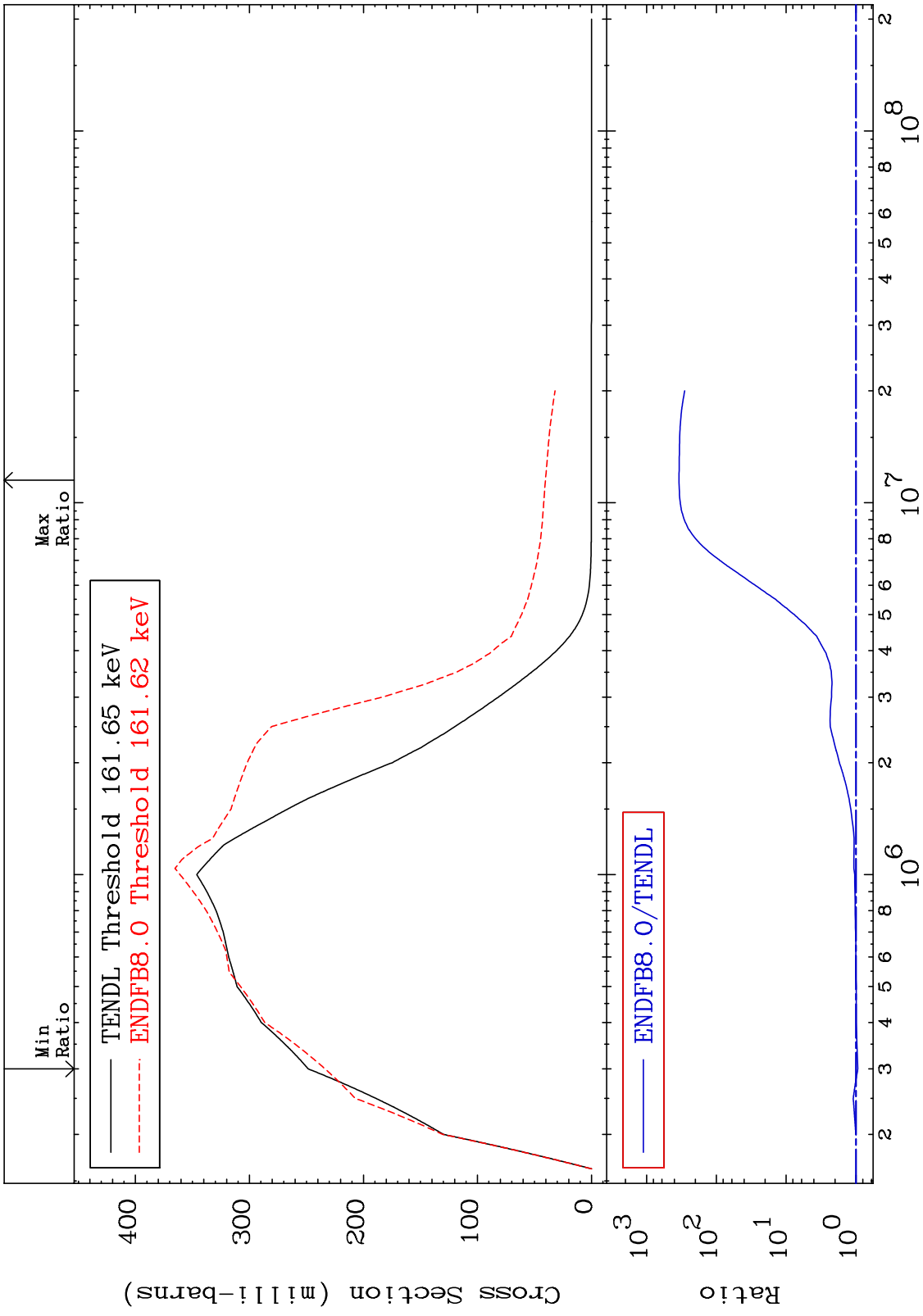


7

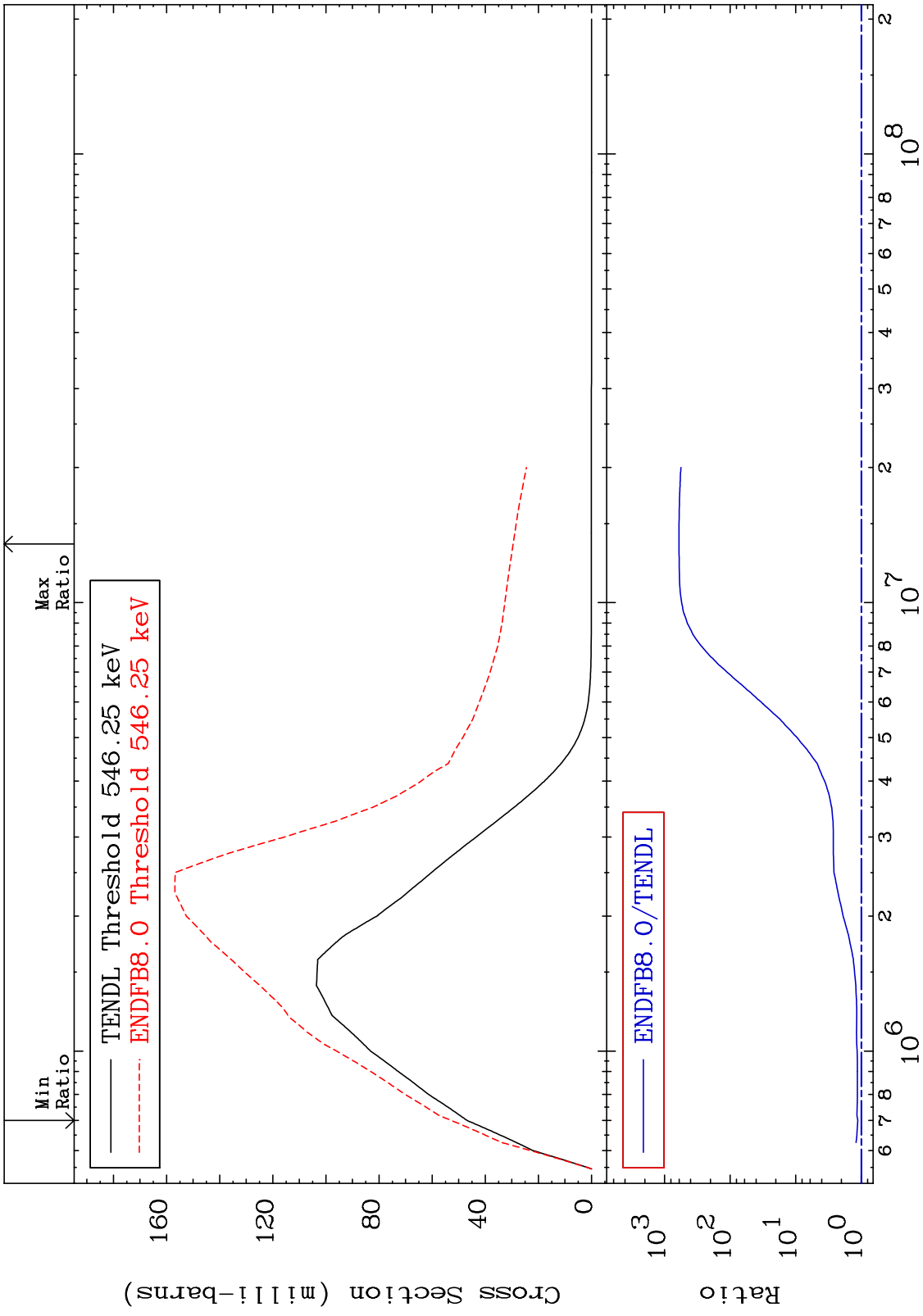
Incident Energy (eV)

51-Sb-123

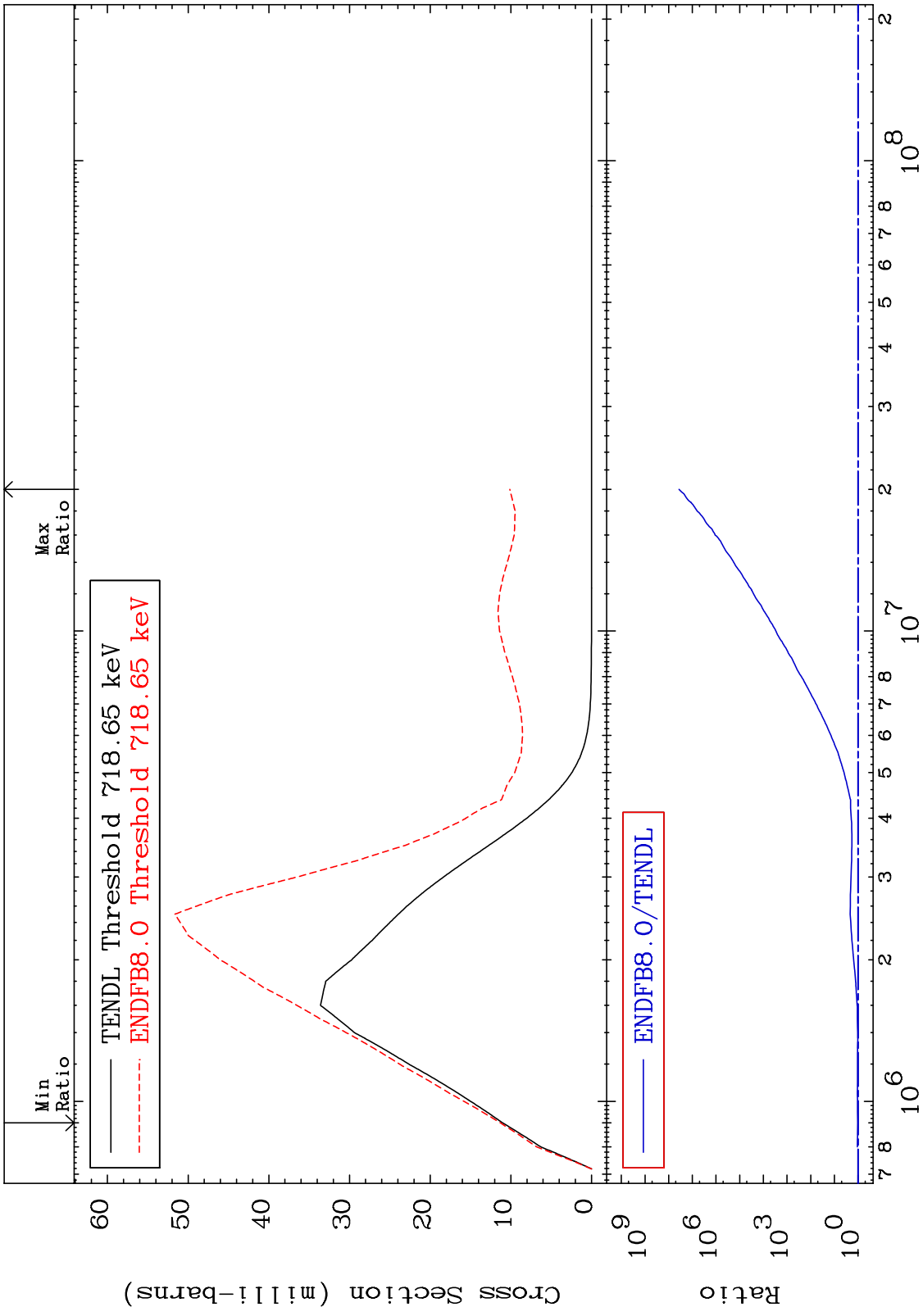
MAT 5131 MT= 51 (n,n') Level Cross Section 51-Sb-123
 -5.911 To 9999. %



MAT 5131 MT= 52 (n,n') Level Cross Section 51-Sb-123 To 9999. %
 12.56

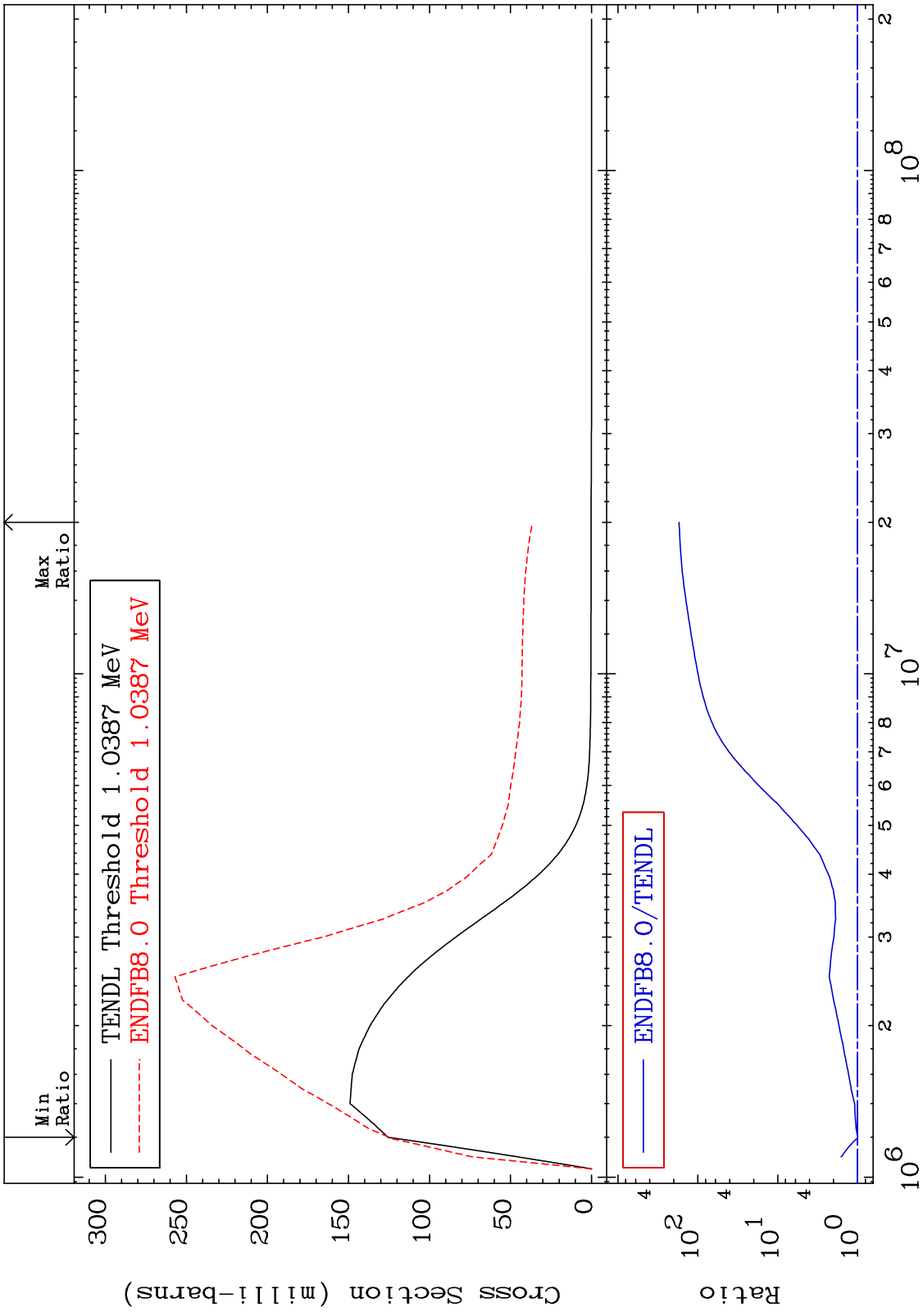


MAT 5131 MT= 53 (n,n') Level Cross Section 51-Sb-123 2.499 To 9999. %

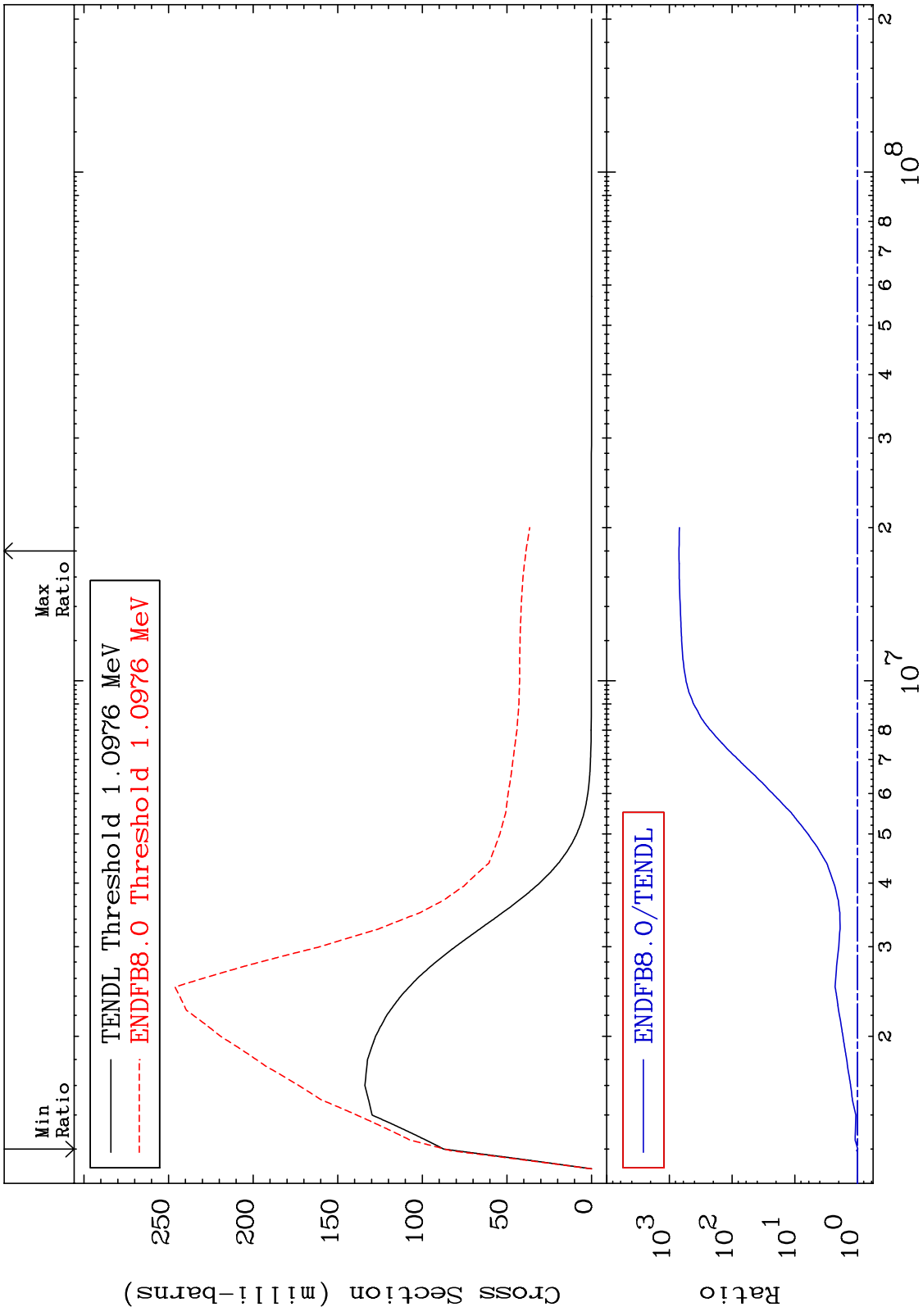


10 Incident Energy (eV) 51-Sb-123

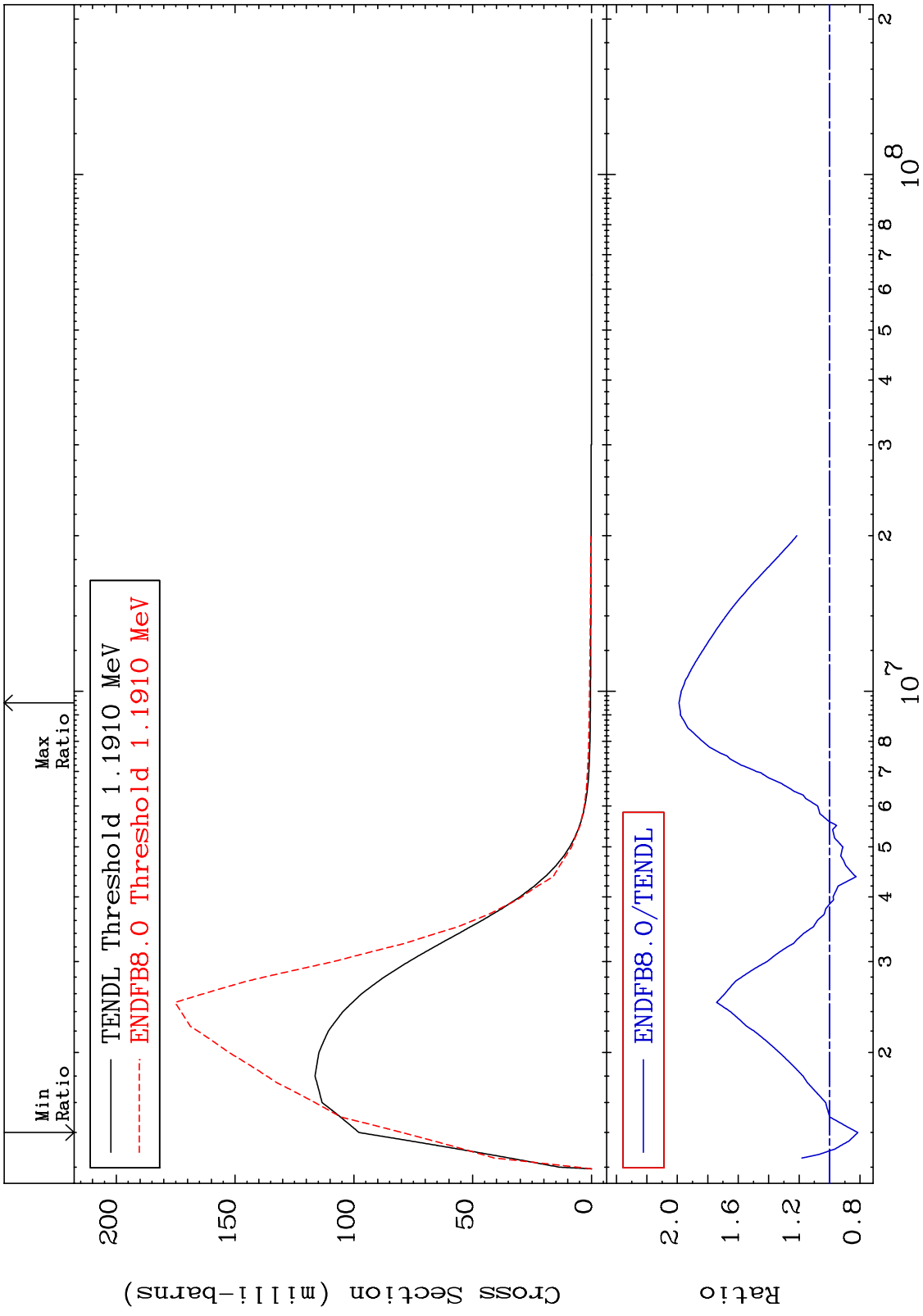
MAT 5131 MT= 54 (n,n') Level Cross Section 51-Sb-123 -0.640 To 9999. %



MAT 5131 MT= 55 (n,n') Level Cross Section 51-Sb-123 -0.784 To 9999. %



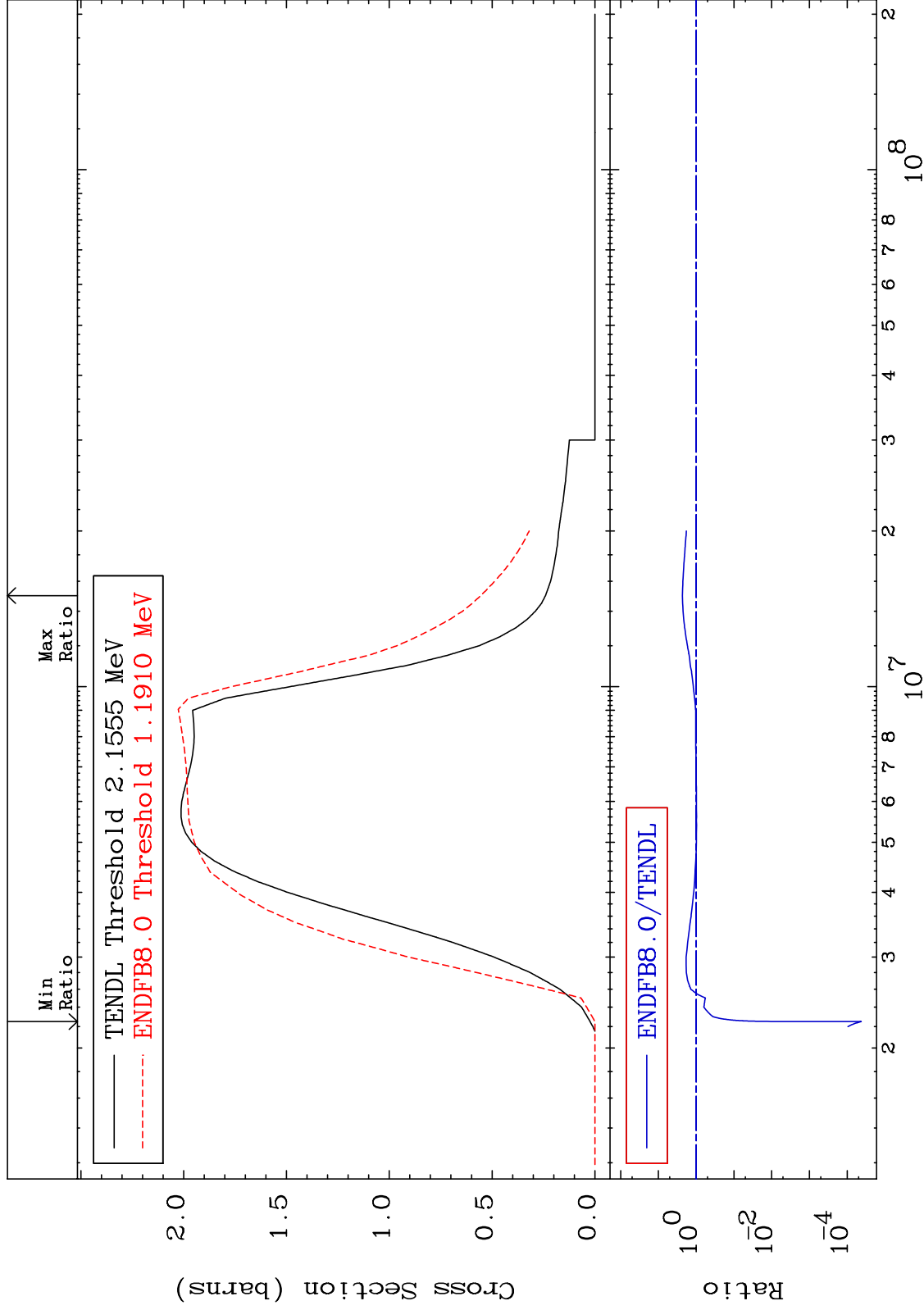
MAT 5131 MT= 56 (n,n') Level Cross Section 51-Sb-123 -18.55 To 98.87 %



MAT 5131

(n, n') Continuum
Cross Section

51-Sb-123
-100.0 To 131.1 %



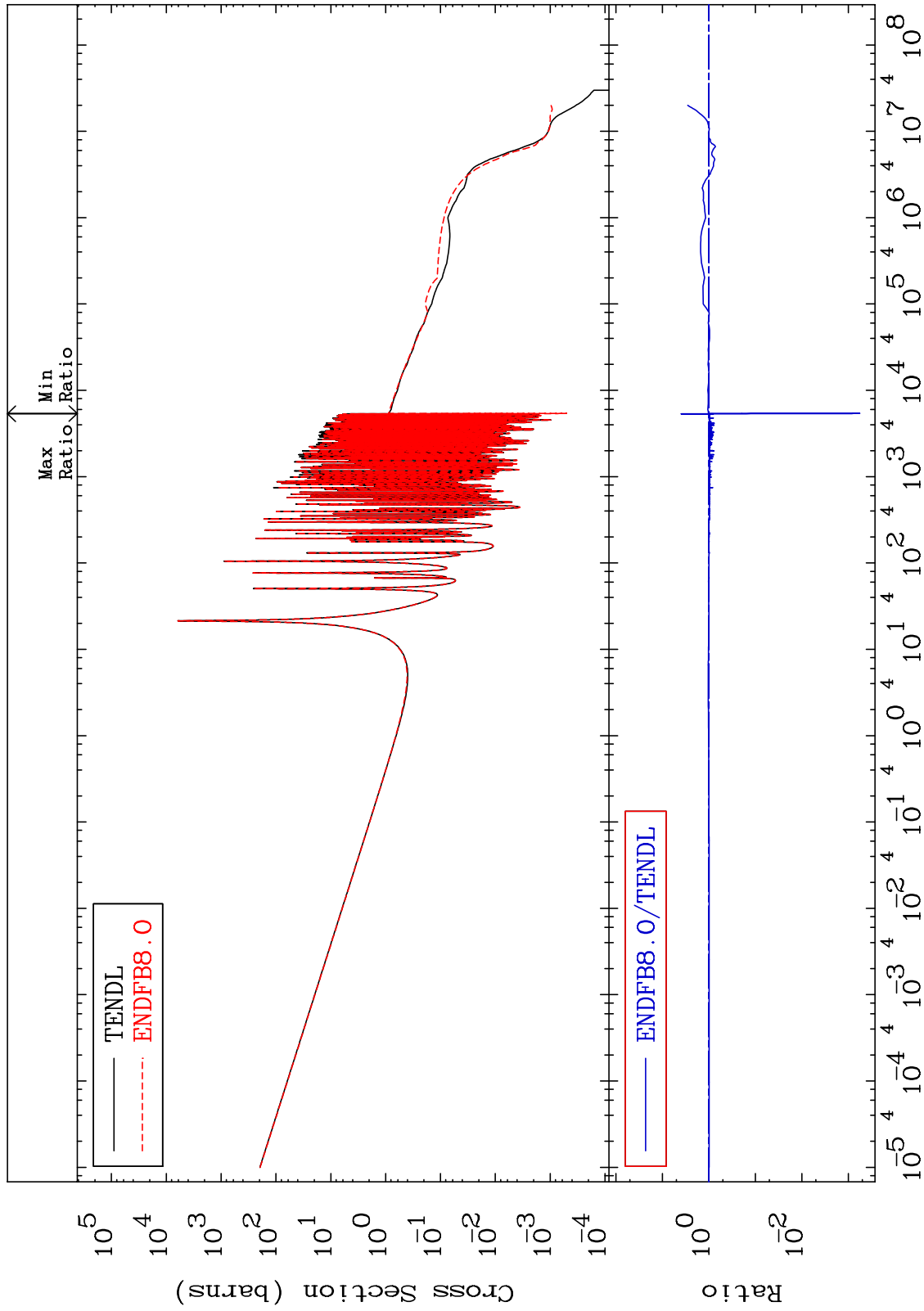
MAT 5131

(n, γ)

51-Sb-123

-99.94 To 292.4 %

Cross Section



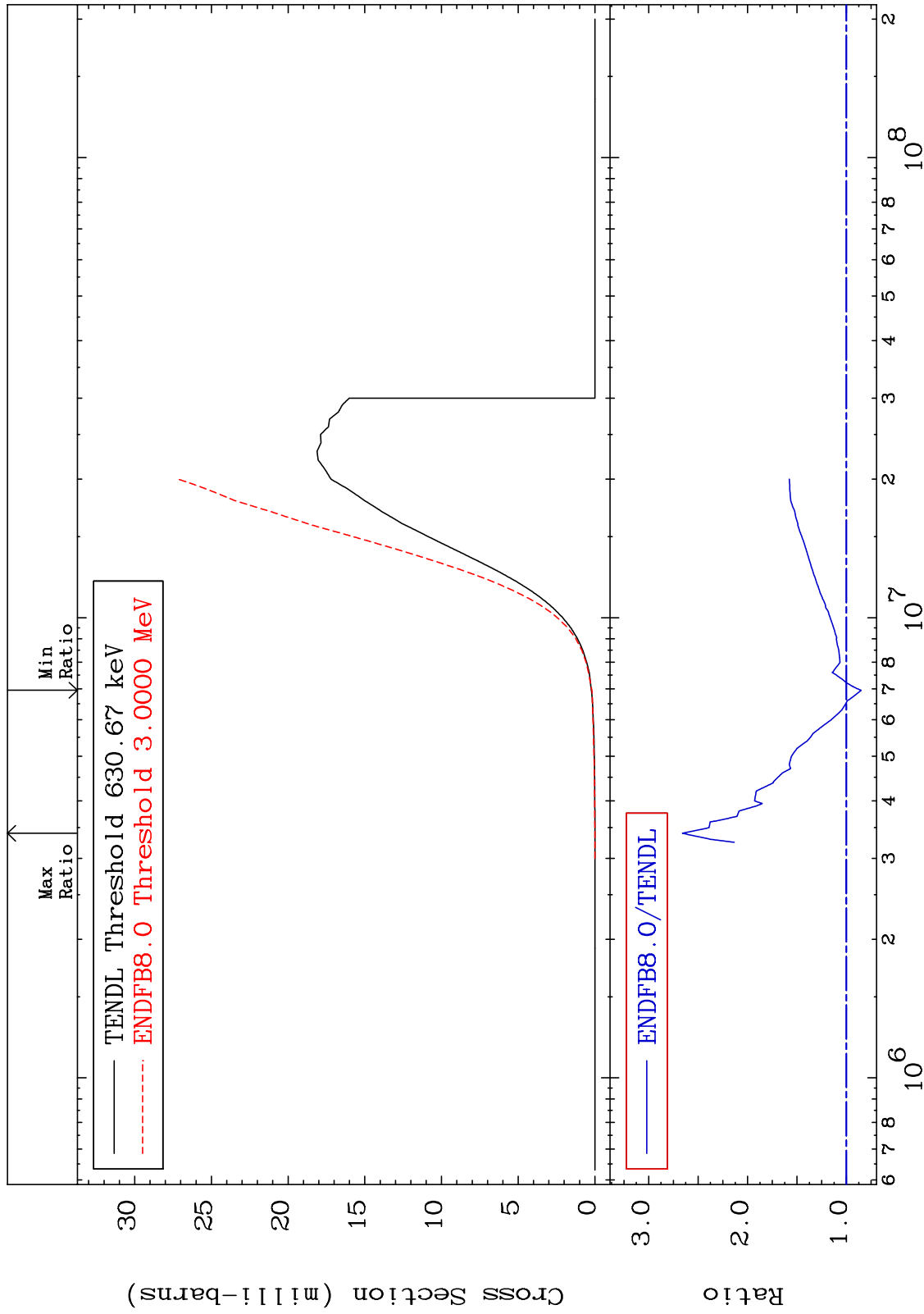
MAT 5131

(n,p)

51-Sb-123

Cross Section

-15.06 To 165.9 %



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Incident Energy (eV)

51-Sb-123

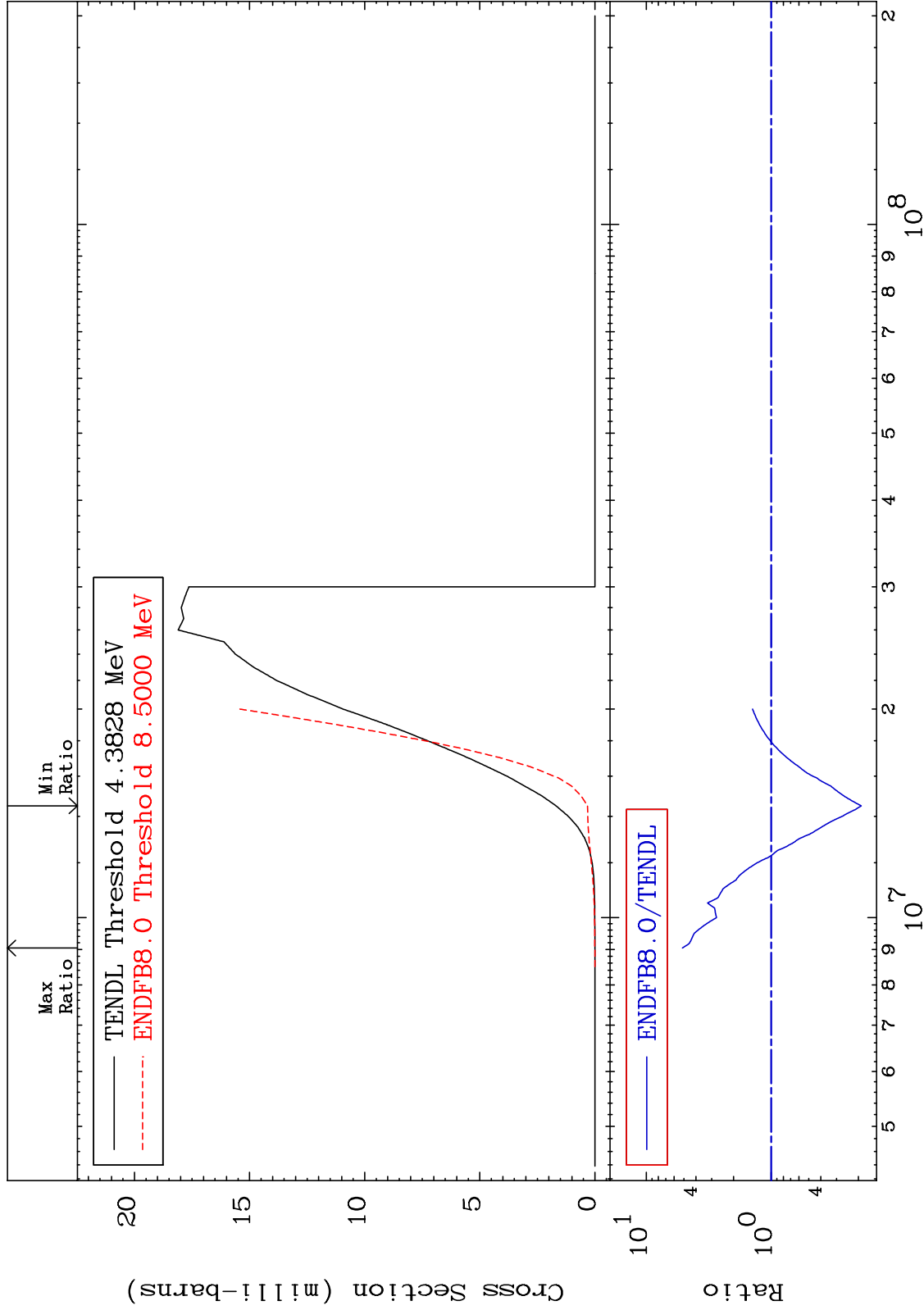
MAT 5131

(n,d)

51-Sb-123

Cross Section

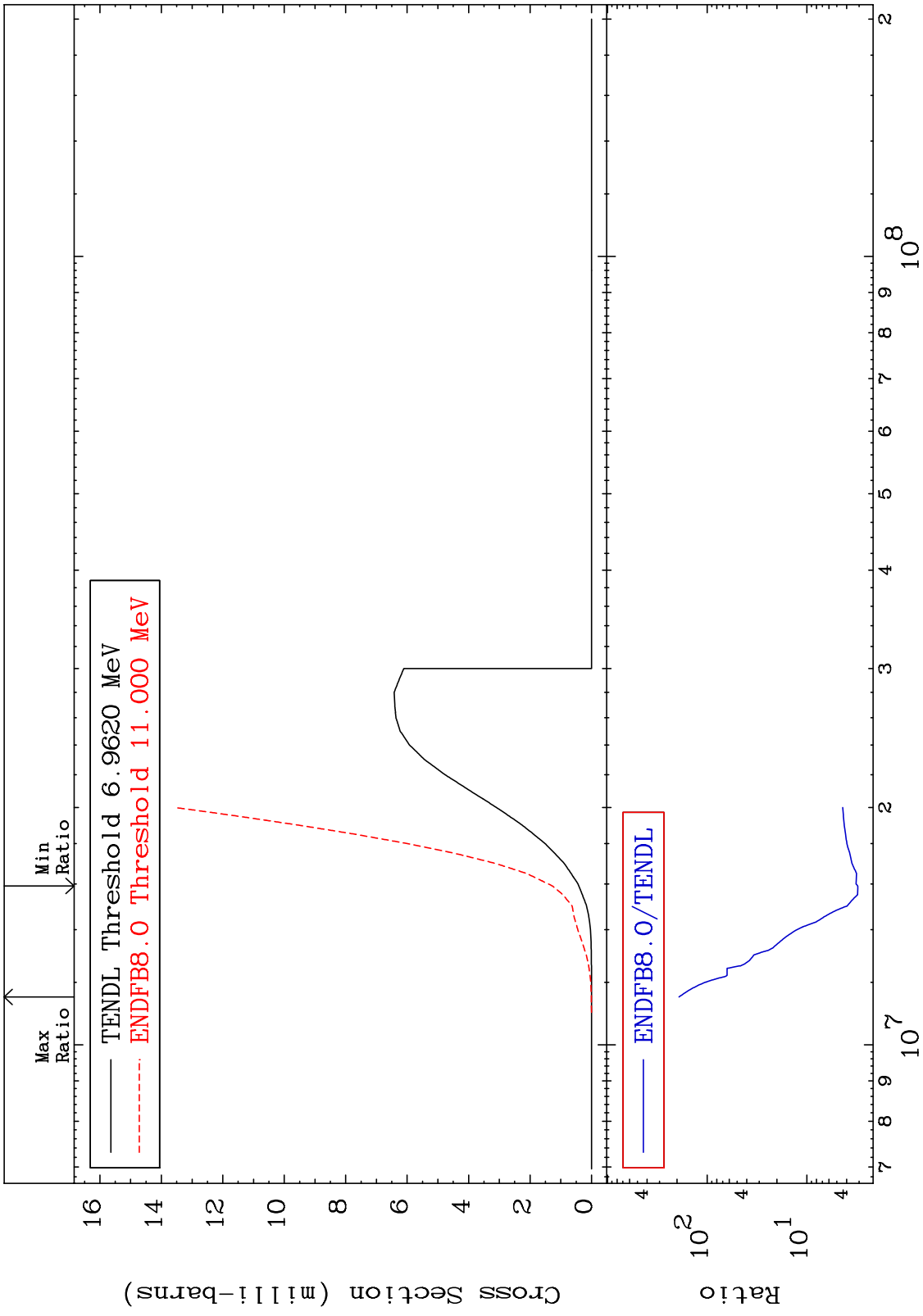
-81.01 To 413.7 %



17

Incident Energy (eV)

51-Sb-123



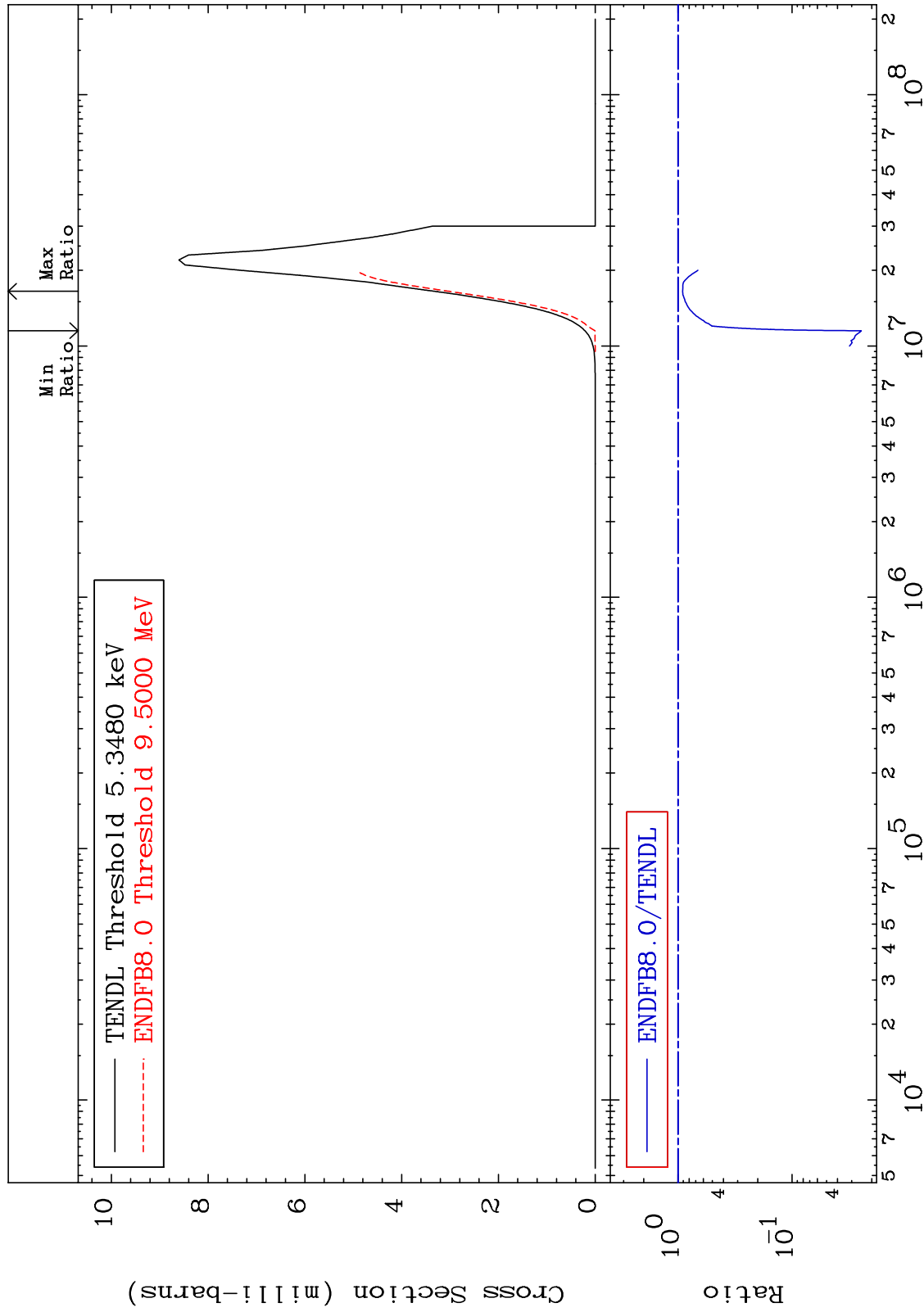
MAT 5131

(n, α)

Cross Section

51-Sb-123

-97.53 To -8.896%



19

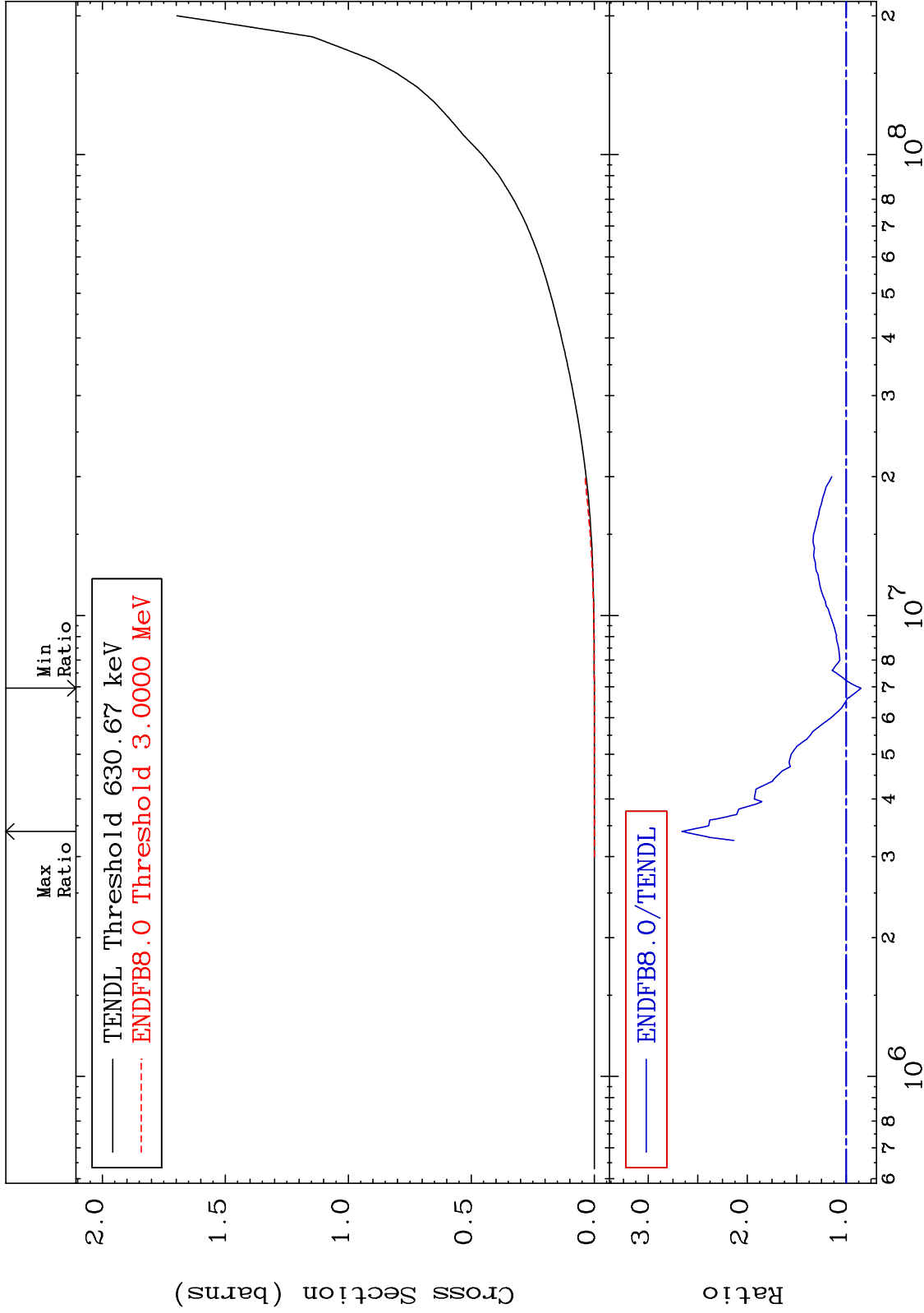
Incident Energy (eV)

51-Sb-123

MAT 5131

Hydrogen Production
Cross Section

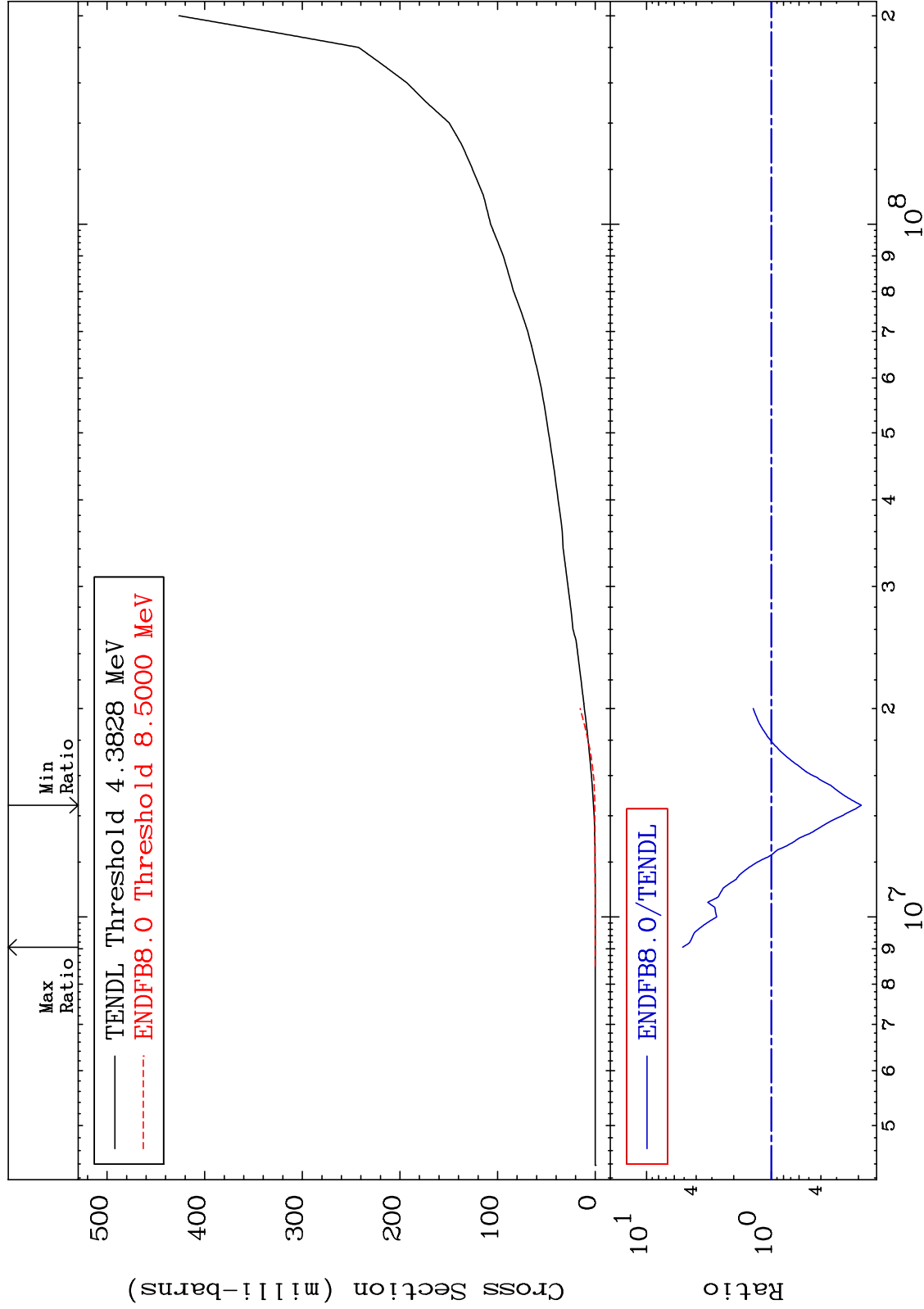
51-Sb-123
-15.06 To 165.9 %



MAT 5131

Deuterium Production
Cross Section

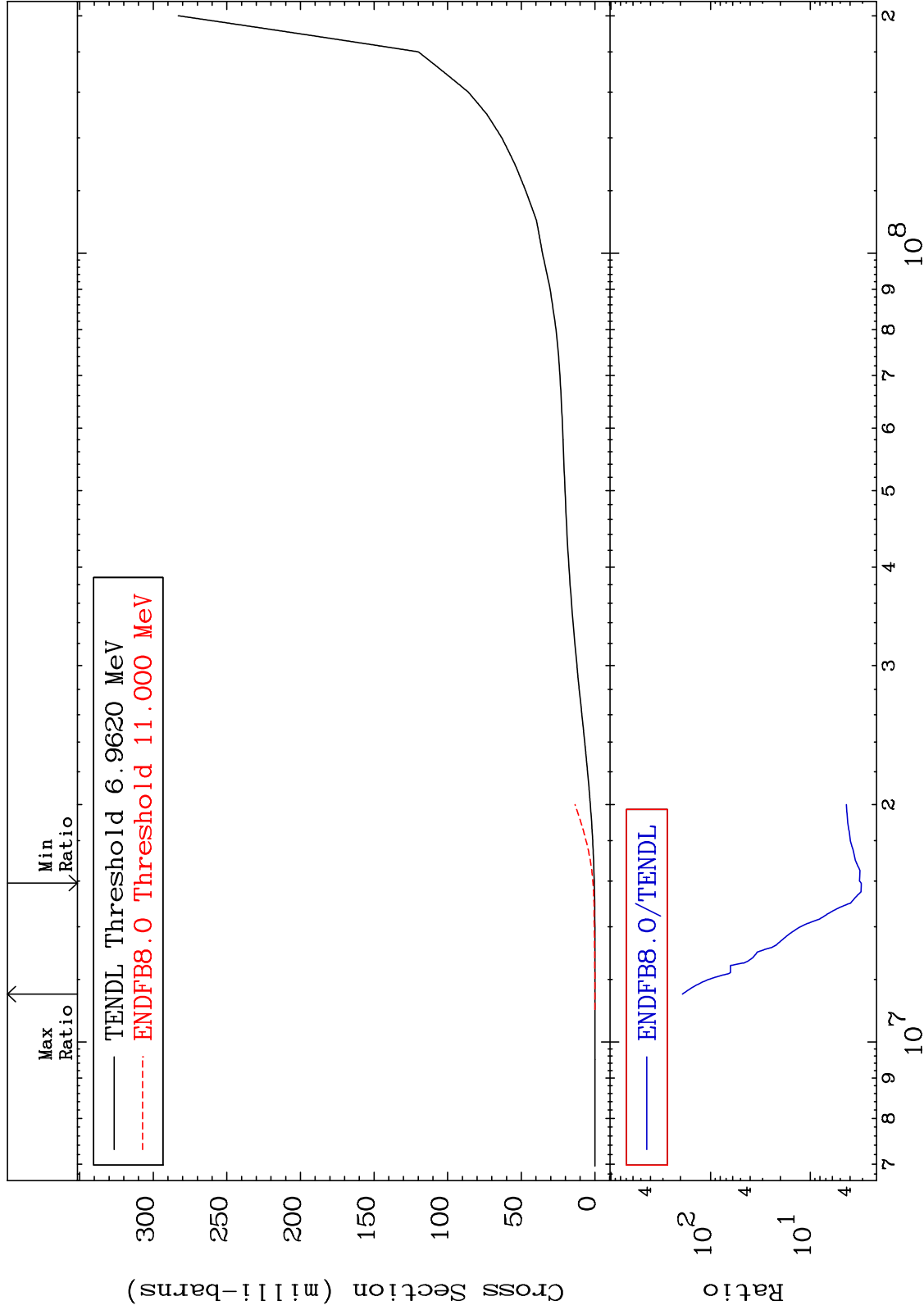
51-Sb-123
-81.01 To 413.7 %



MAT 5131

Tritium Production
Cross Section

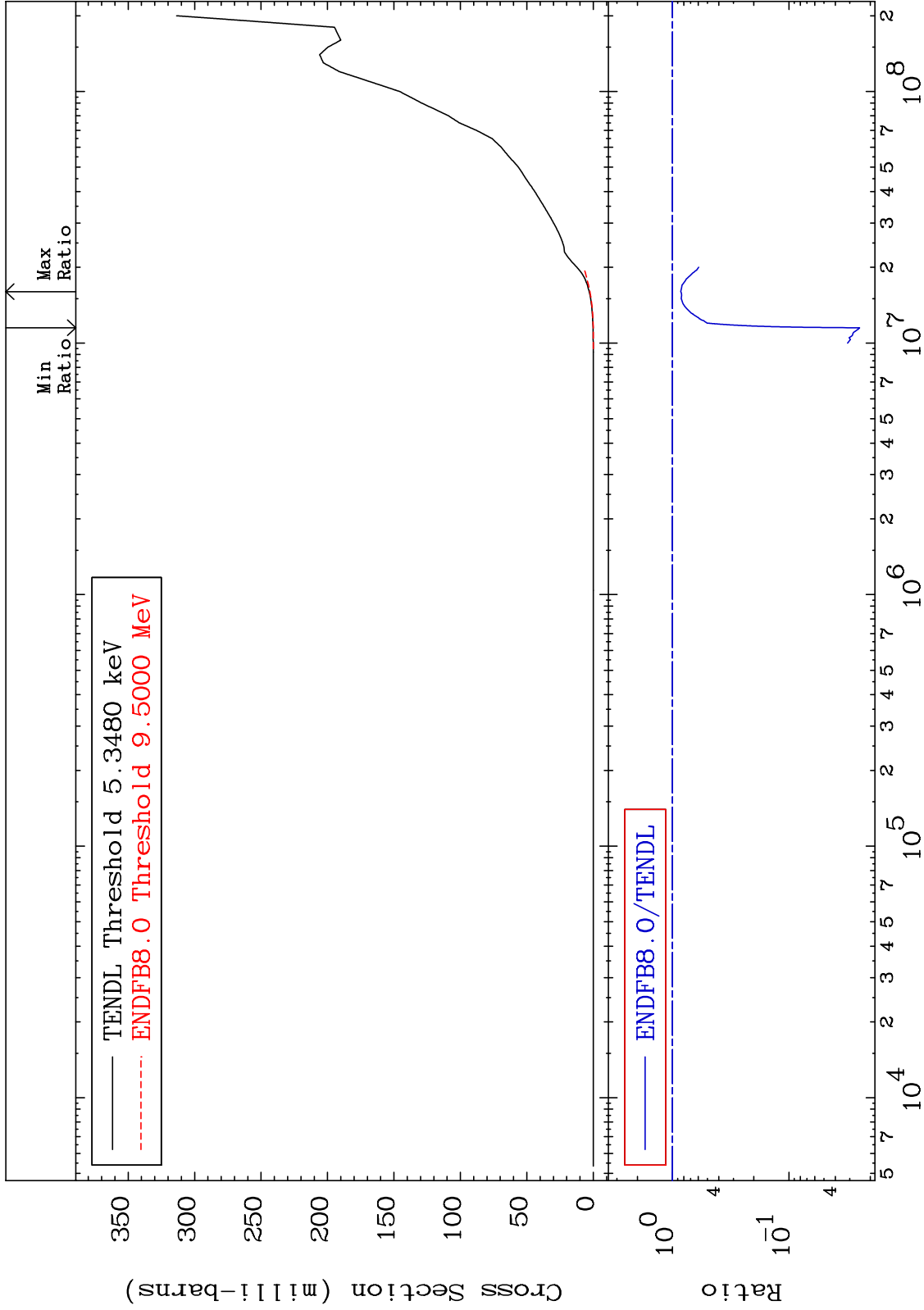
51-Sb-123
208.3 To 9999. %



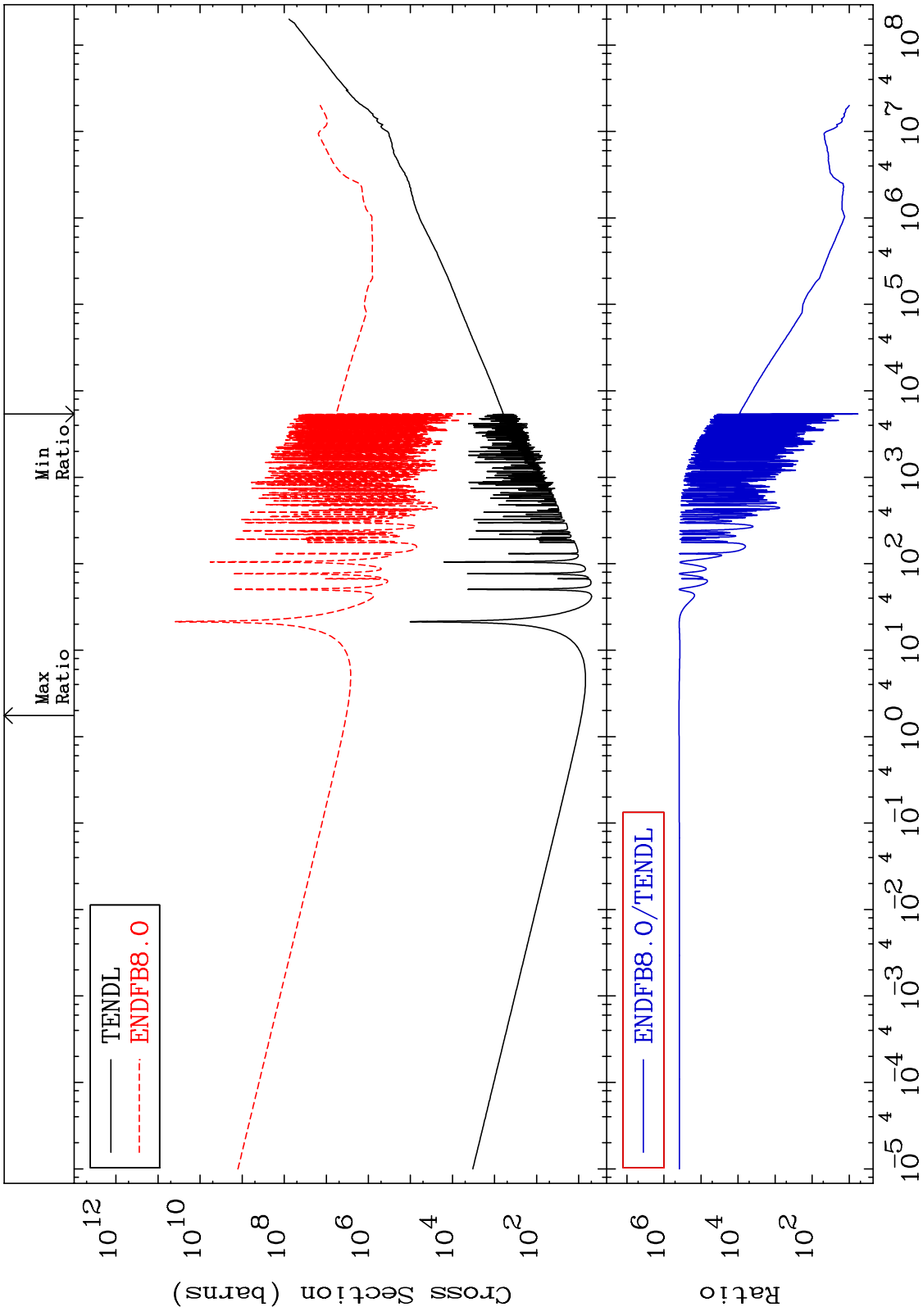
MAT 5131

He-4 Production
Cross Section

51-Sb-123
-97.53 To -15.24%



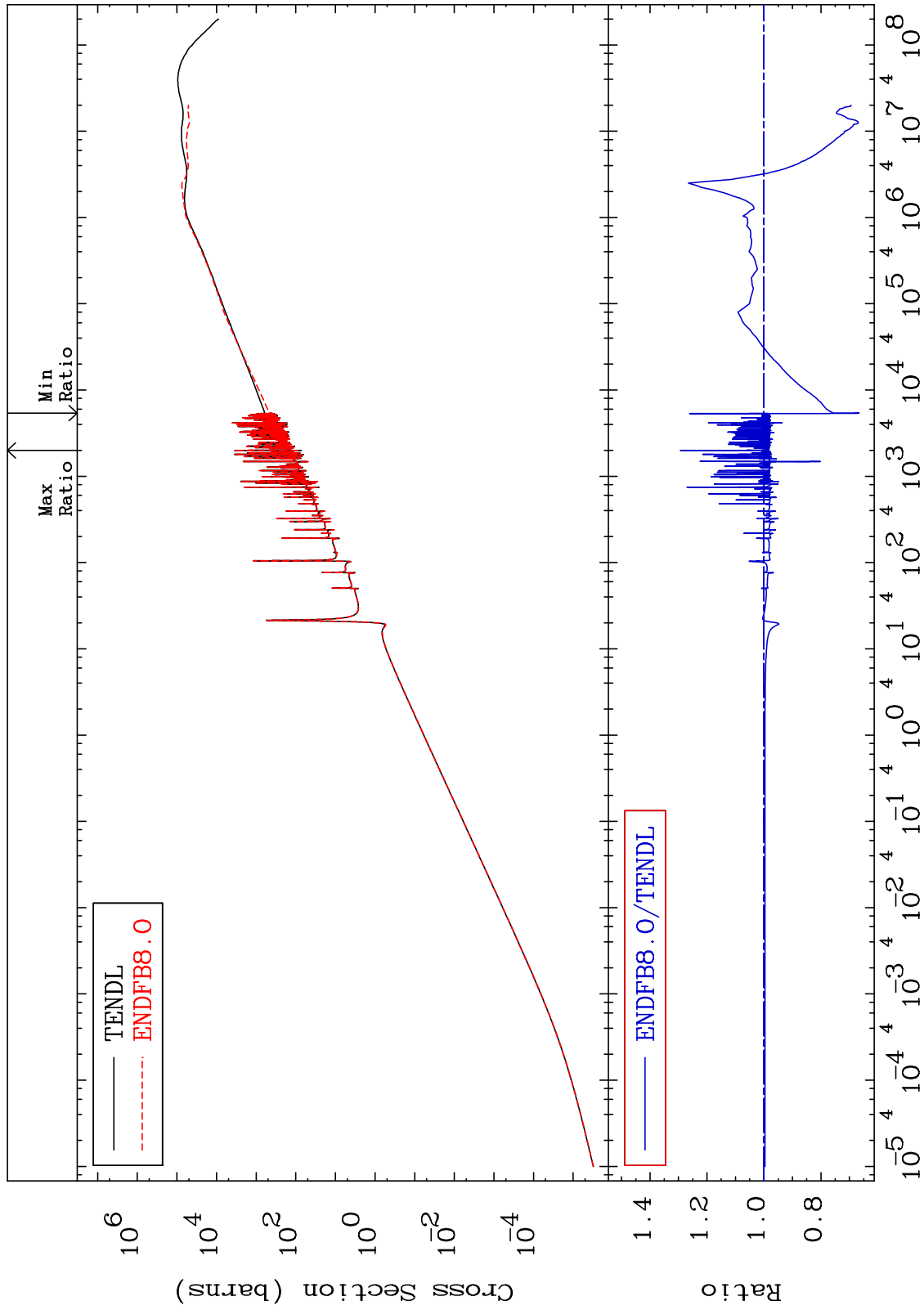
MAT 5131 Kerma total (eV-barns) 51-Sb-123
 Cross Section 483.3 To 9999. %



MAT 5131

Kerma elastic
Cross Section

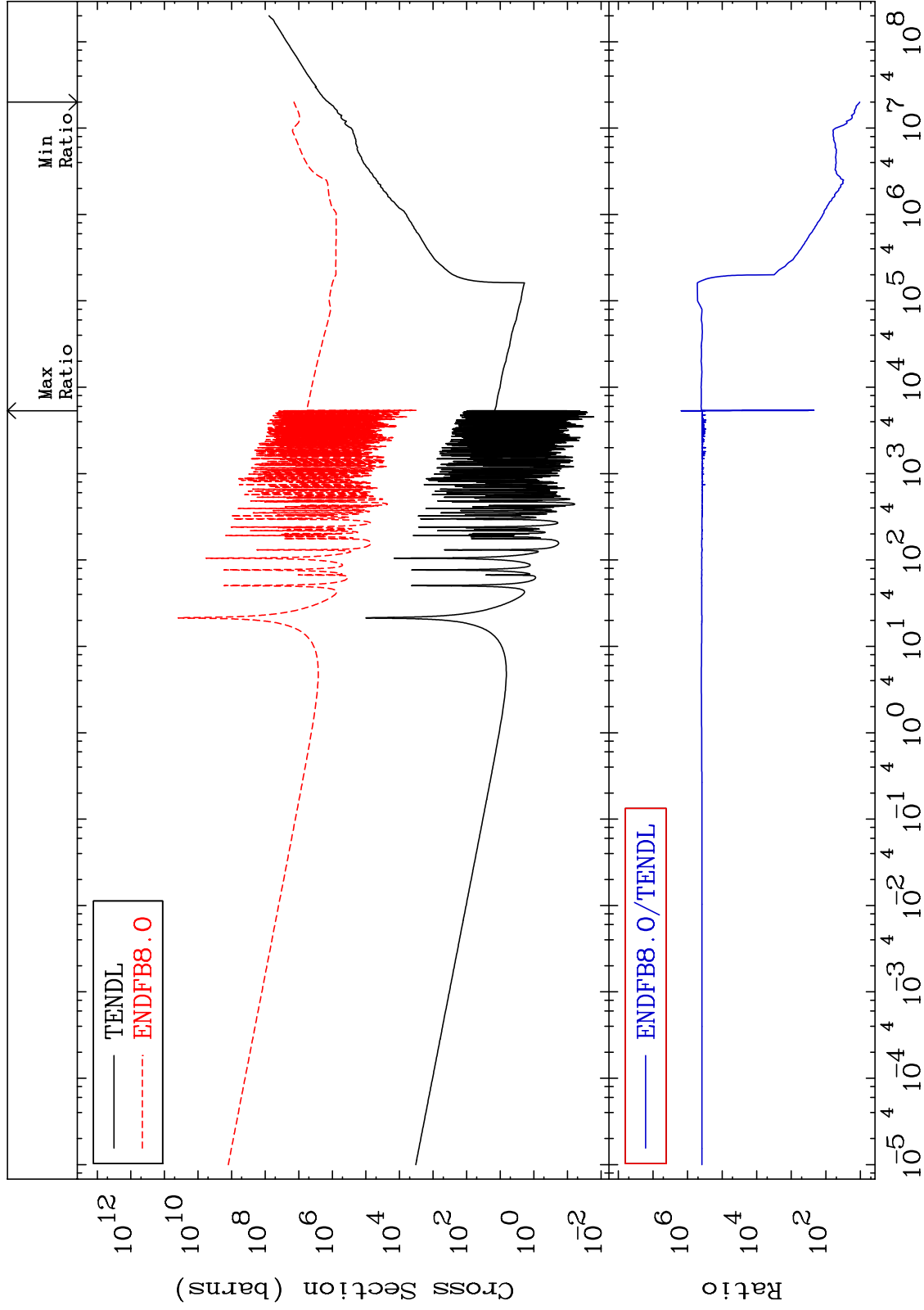
51-Sb-123
-33.37 To 29.25 %



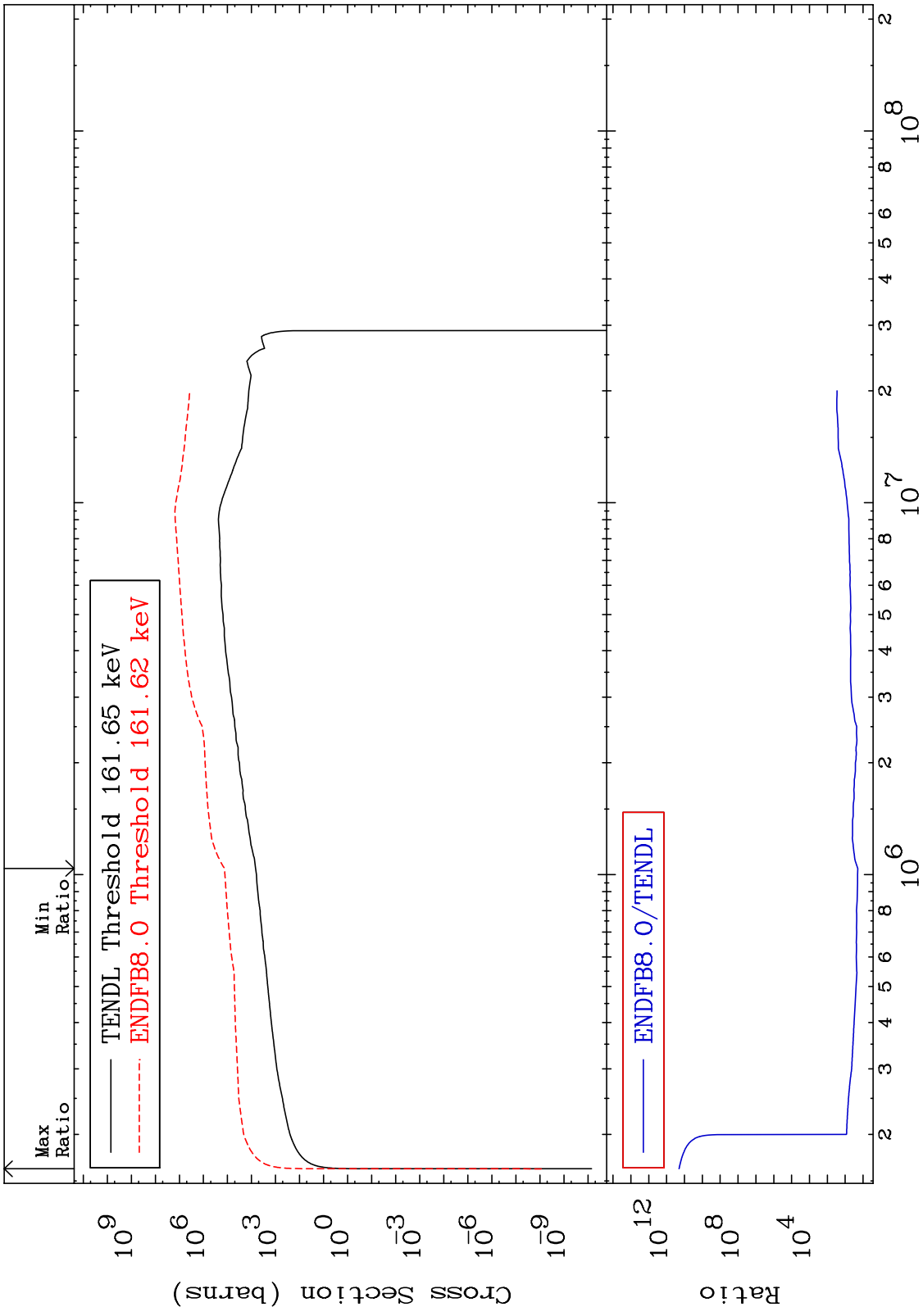
MAT 5131

Kerma non-elastic (all but mt2)
Cross Section

51-Sb-123
946.9 To 9999. %



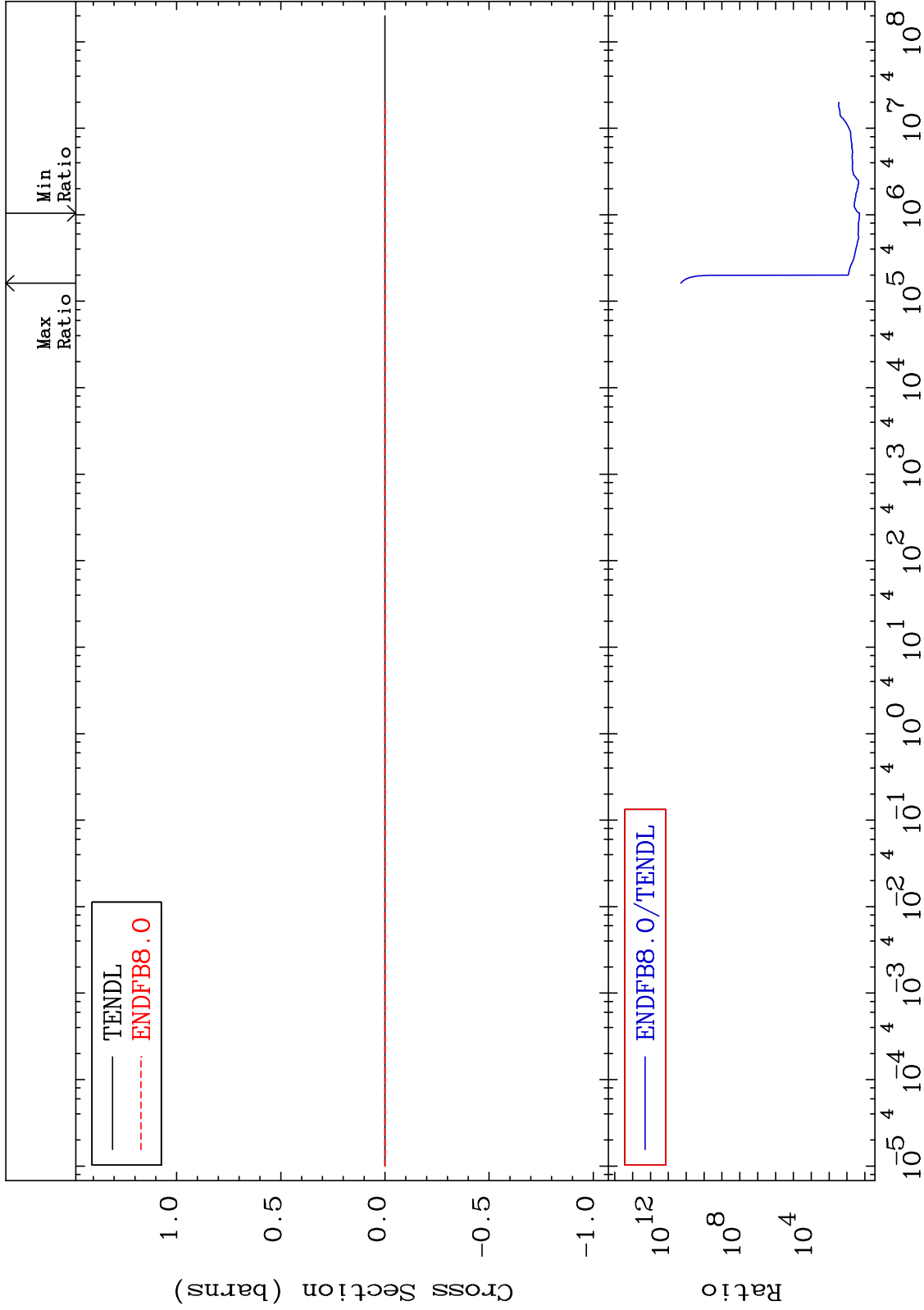
MAT 5131 Kerma inelastic (mt51-91) 51-Sb-123
 Cross Section 1861. To 9999. %



MAT 5131

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

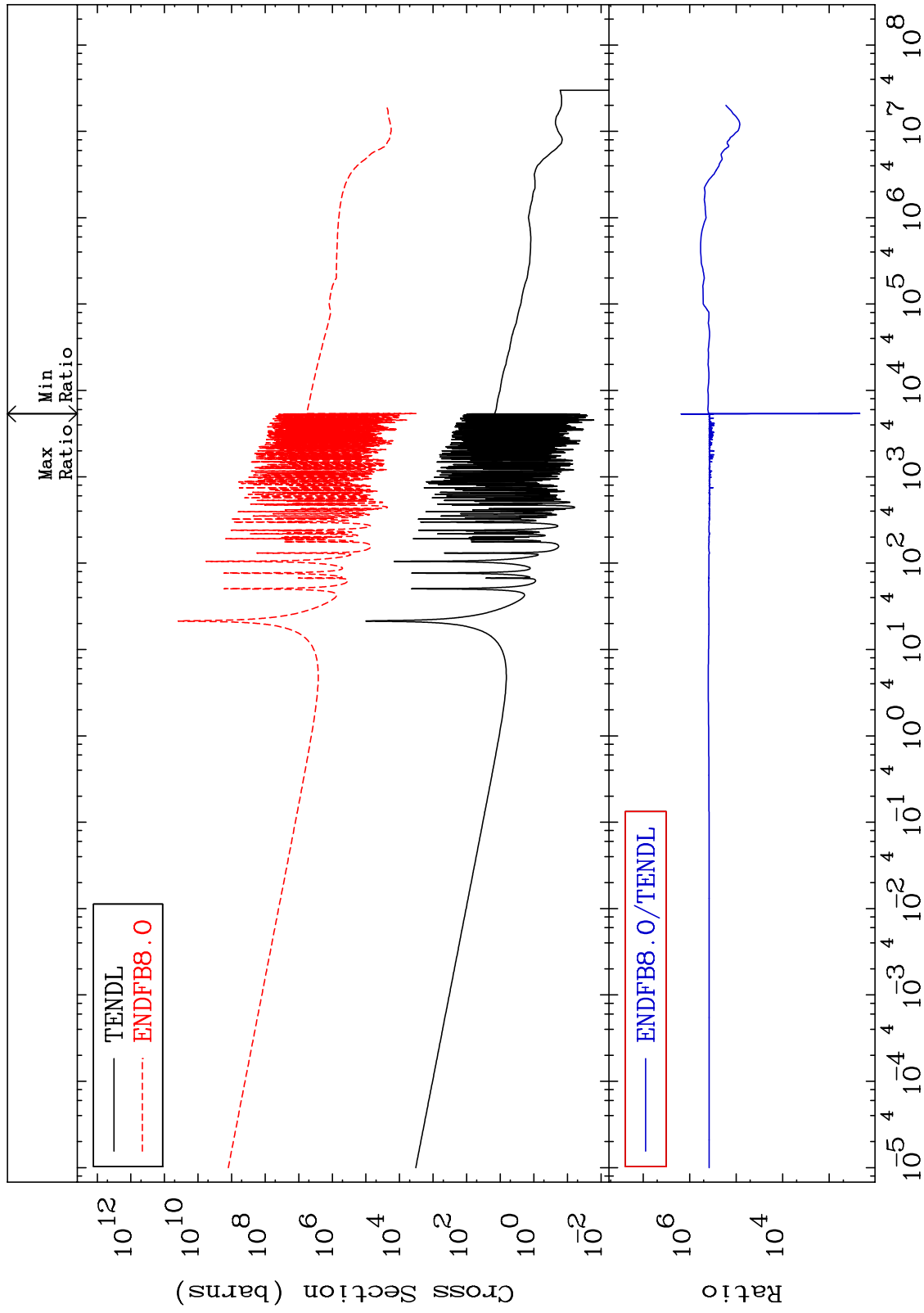
51-Sb-123
1861. To 9999. %



MAT 5131

Kerma capture (mt102)
Cross Section

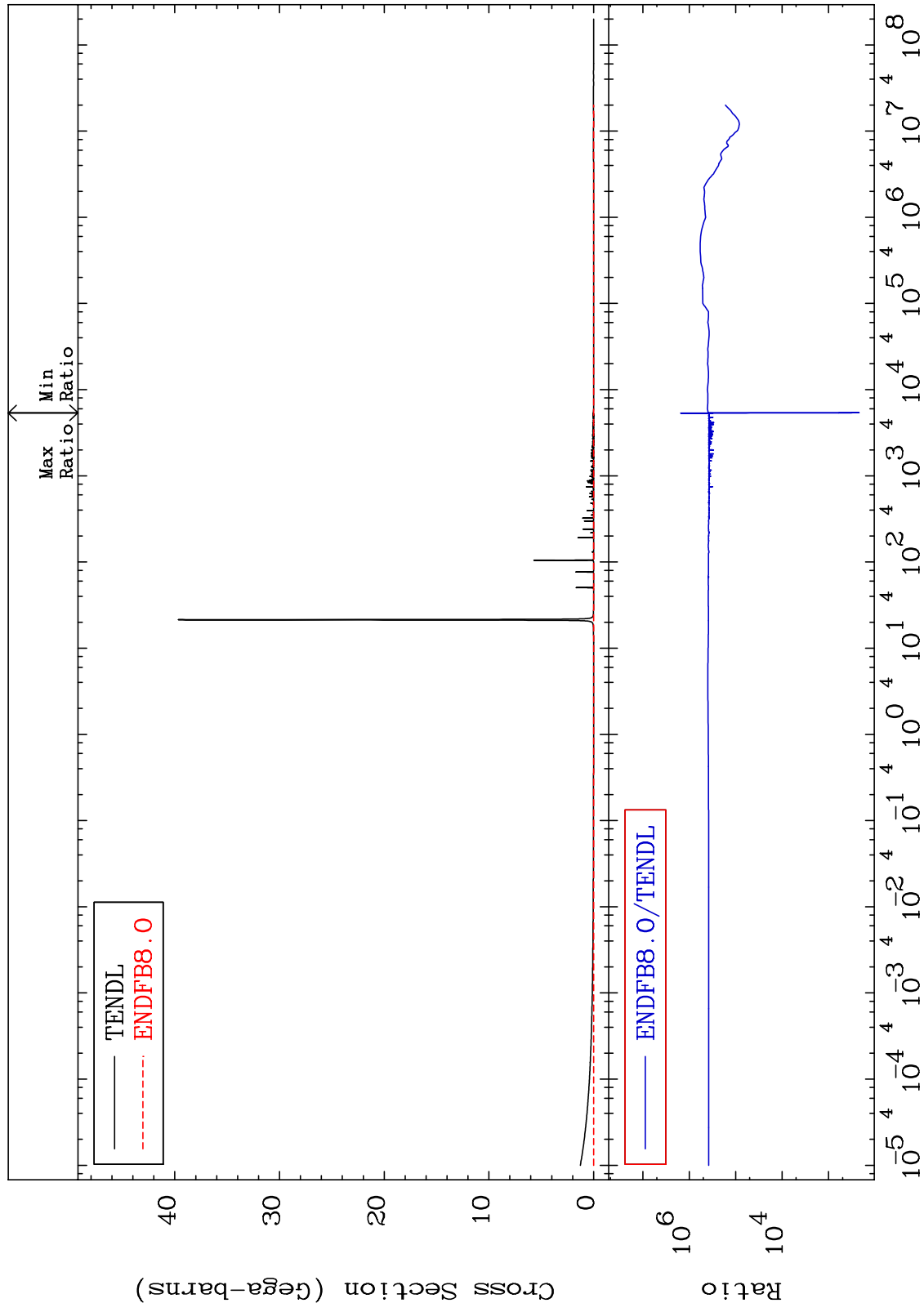
51-Sb-123
9999. To 9999. %



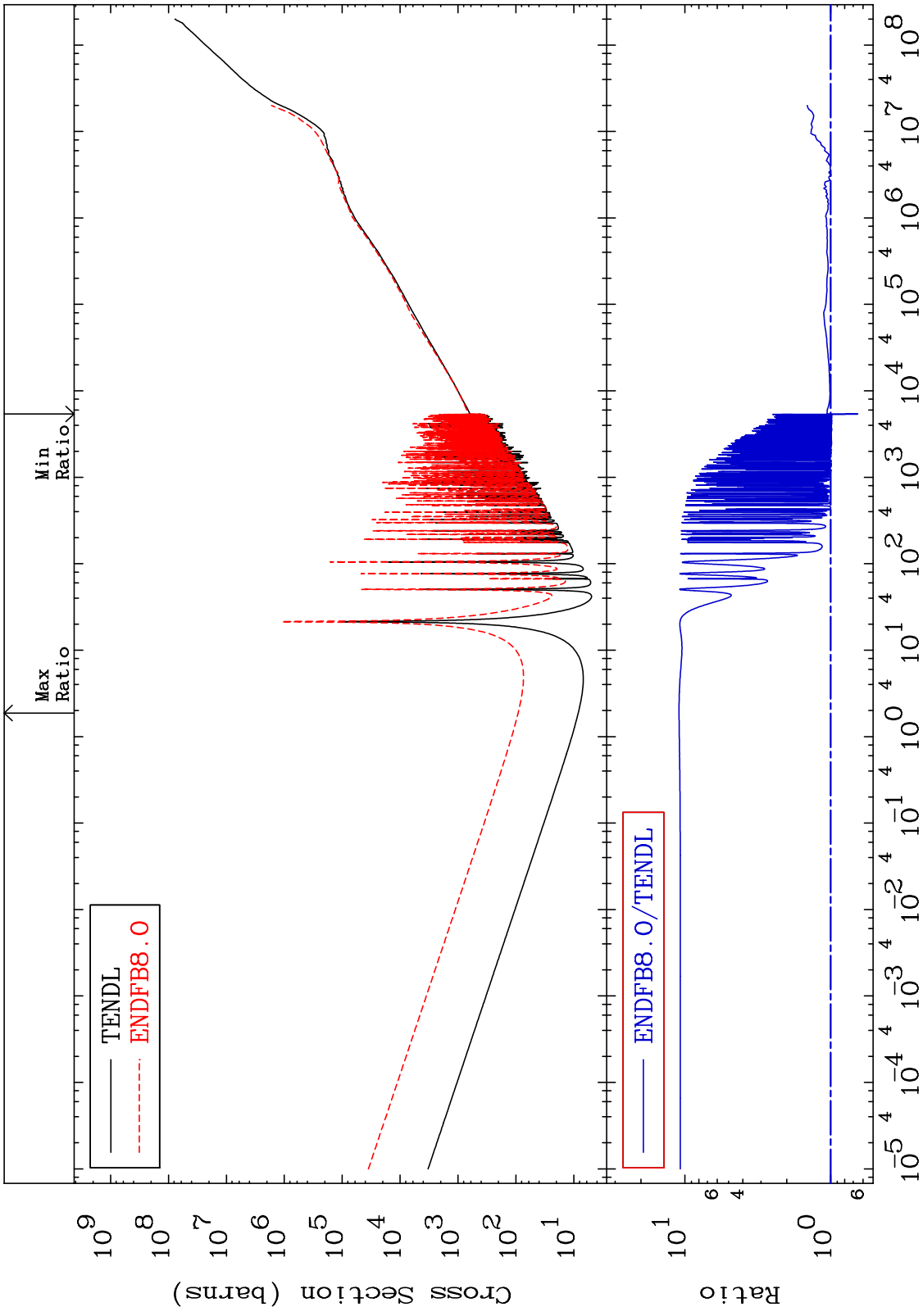
MAT 5131

Total photon (eV-barns)
Cross Section

51-Sb-123
9999. To 9999. %



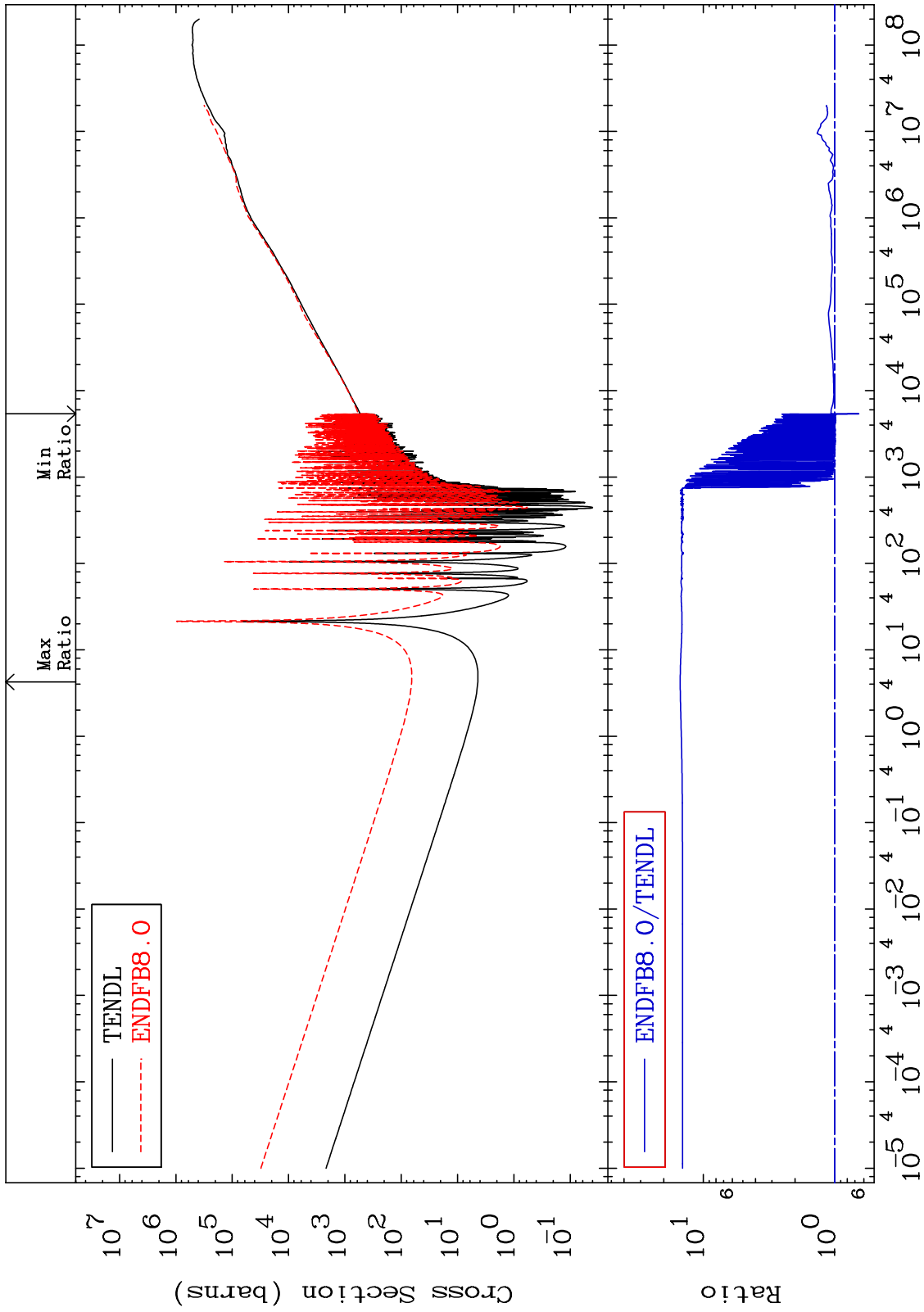
MAT 5131 Total kinematic kerma (high limit) 51-Sb-123
 Cross Section -34.90 To 994.6 %



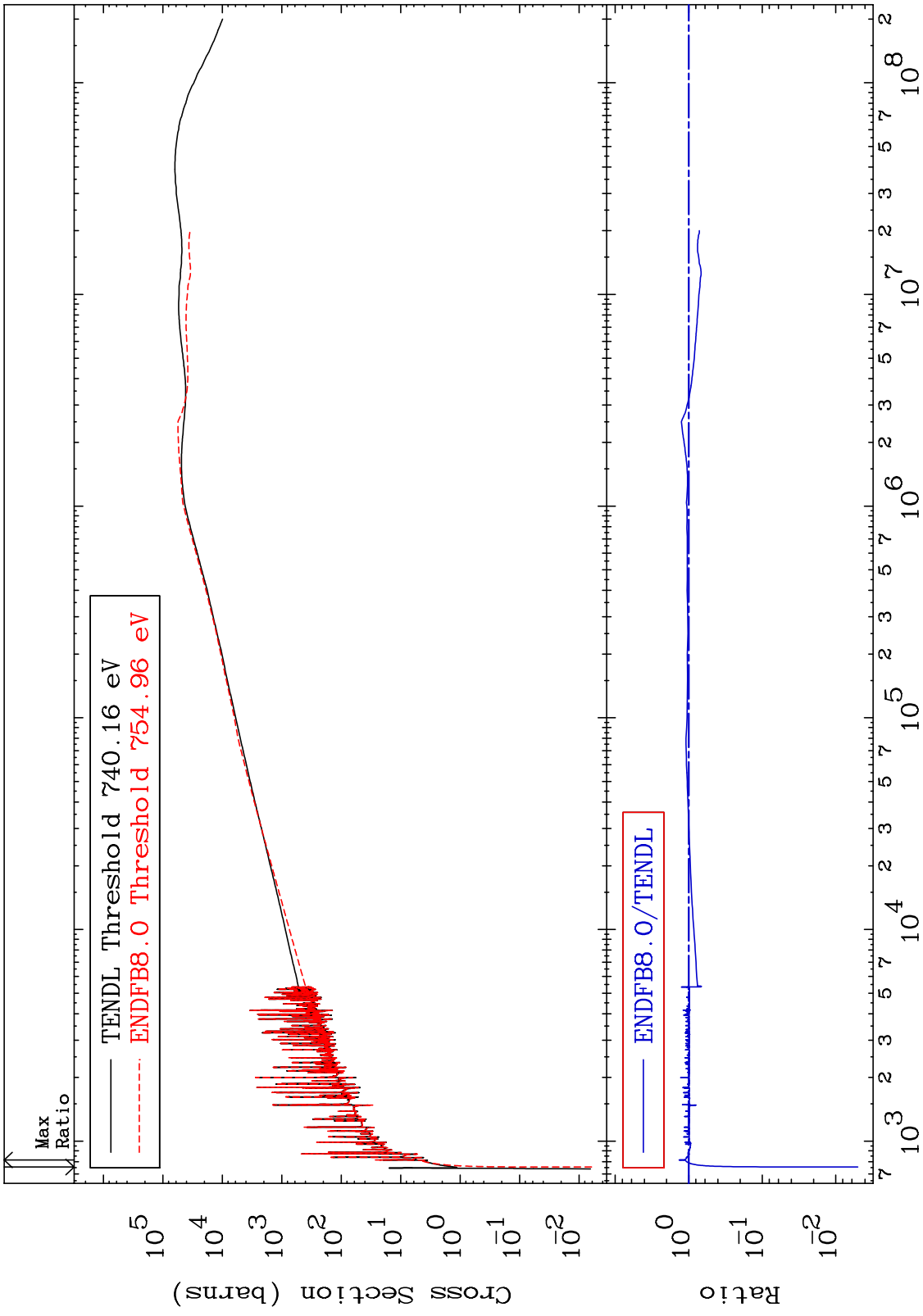
MAT 5131

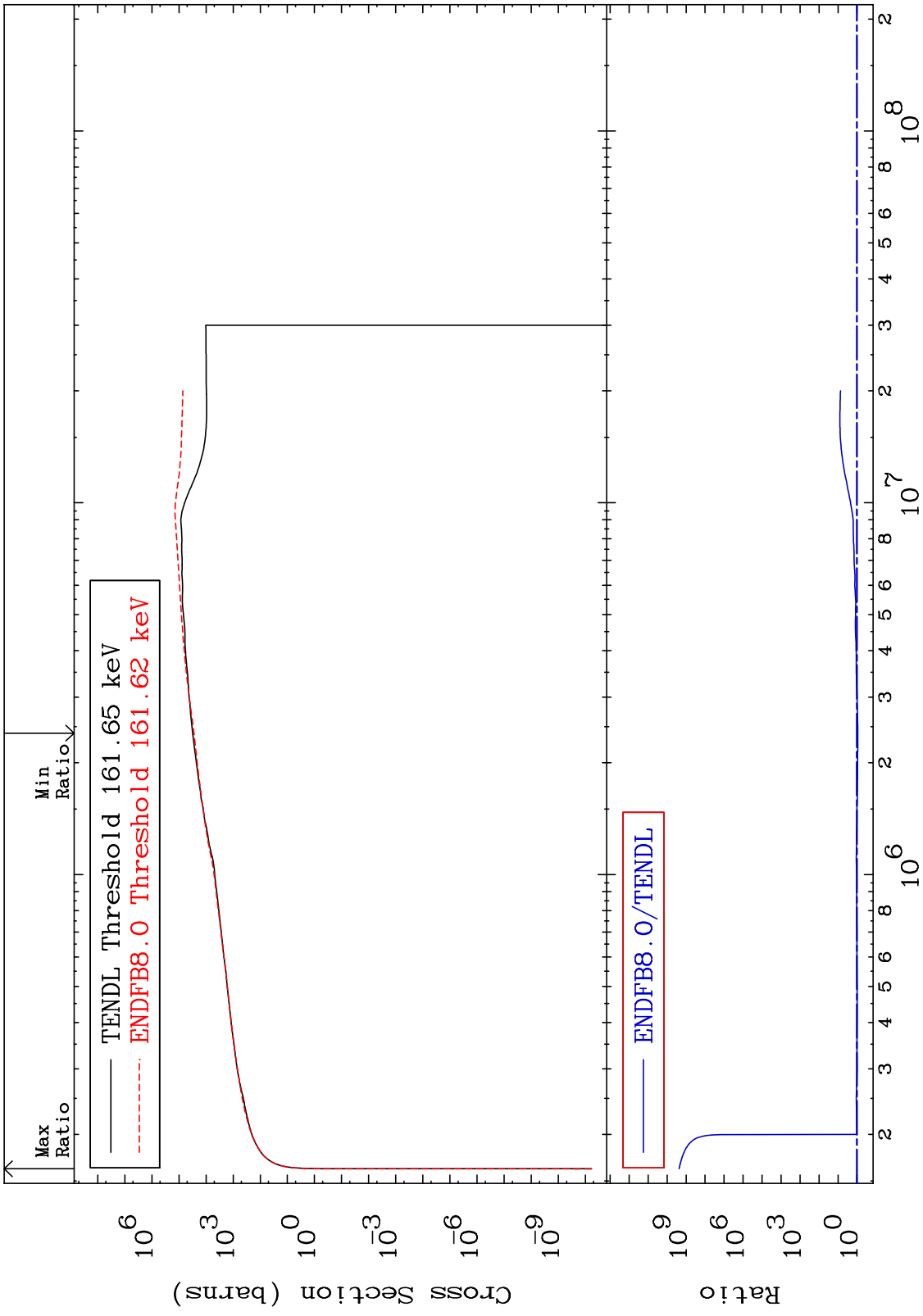
Dpa total (eV-barns)
Cross Section

51-Sb-123
-34.65 To 1396. %



MAT 5131 Dpa elastic (mt2) 51-Sb-123
 Cross Section -99.50 To 35.43 %





MAT 5131 Dpa disappearance (mt102 -120) 51-Sb-123
 Cross Section -98.97 To 9999. %

