

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

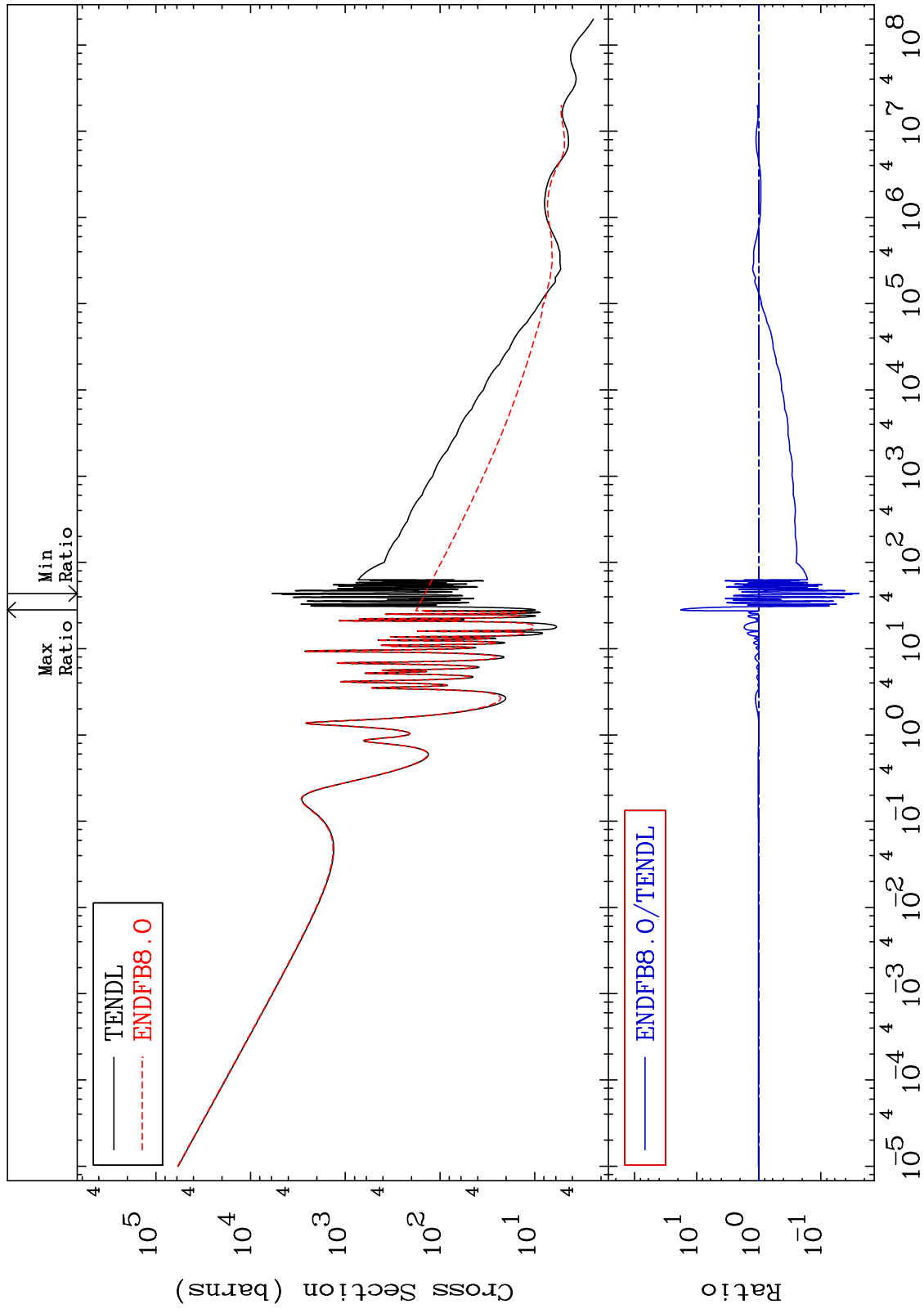
Press Mouse Button to Start

MAT 6334

Total

Cross Section

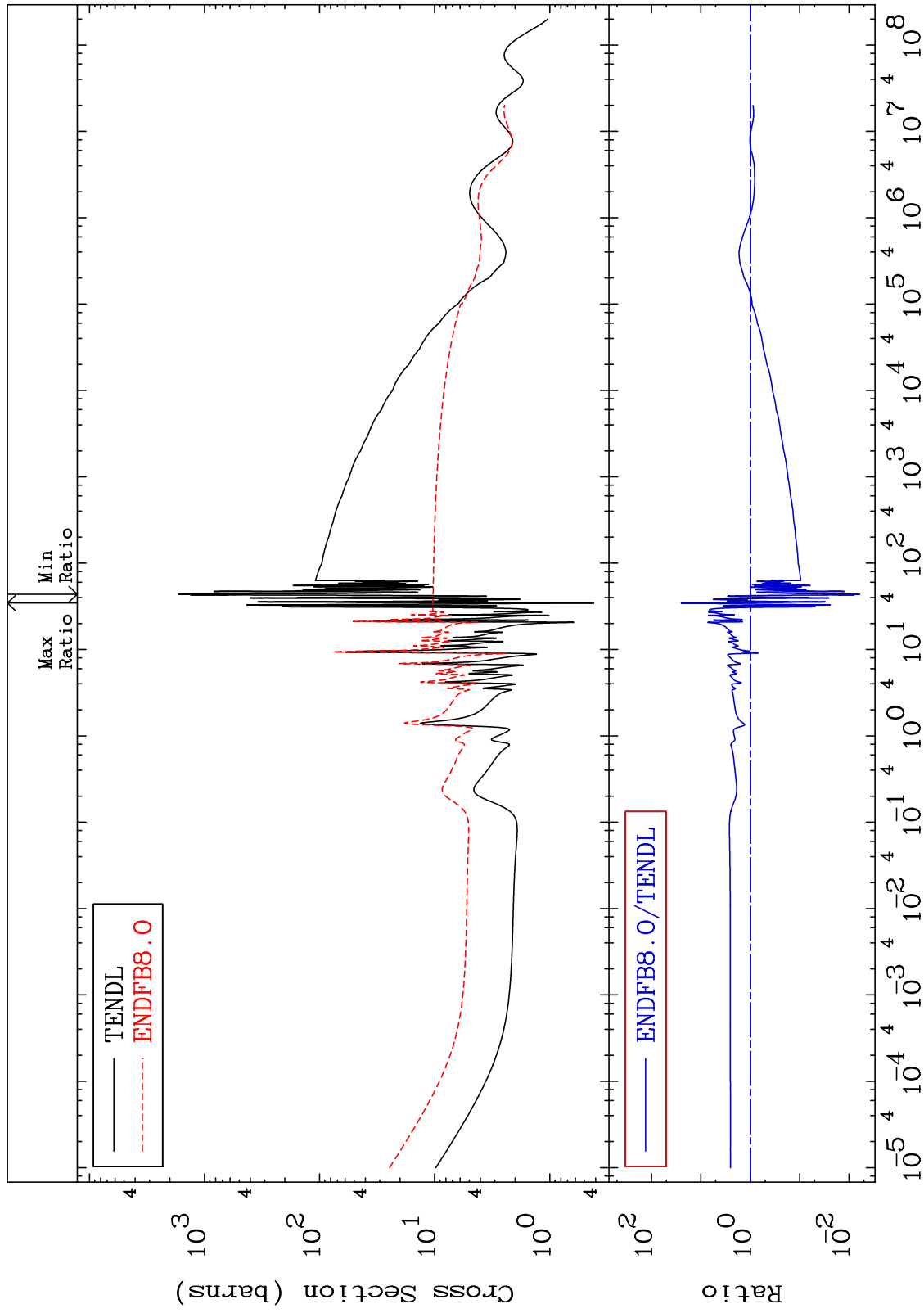
63-Eu-154
-97.57 To 1710. %



MAT 6334

Elastic
Cross Section

63-Eu-154
-99.39 To 2399. %

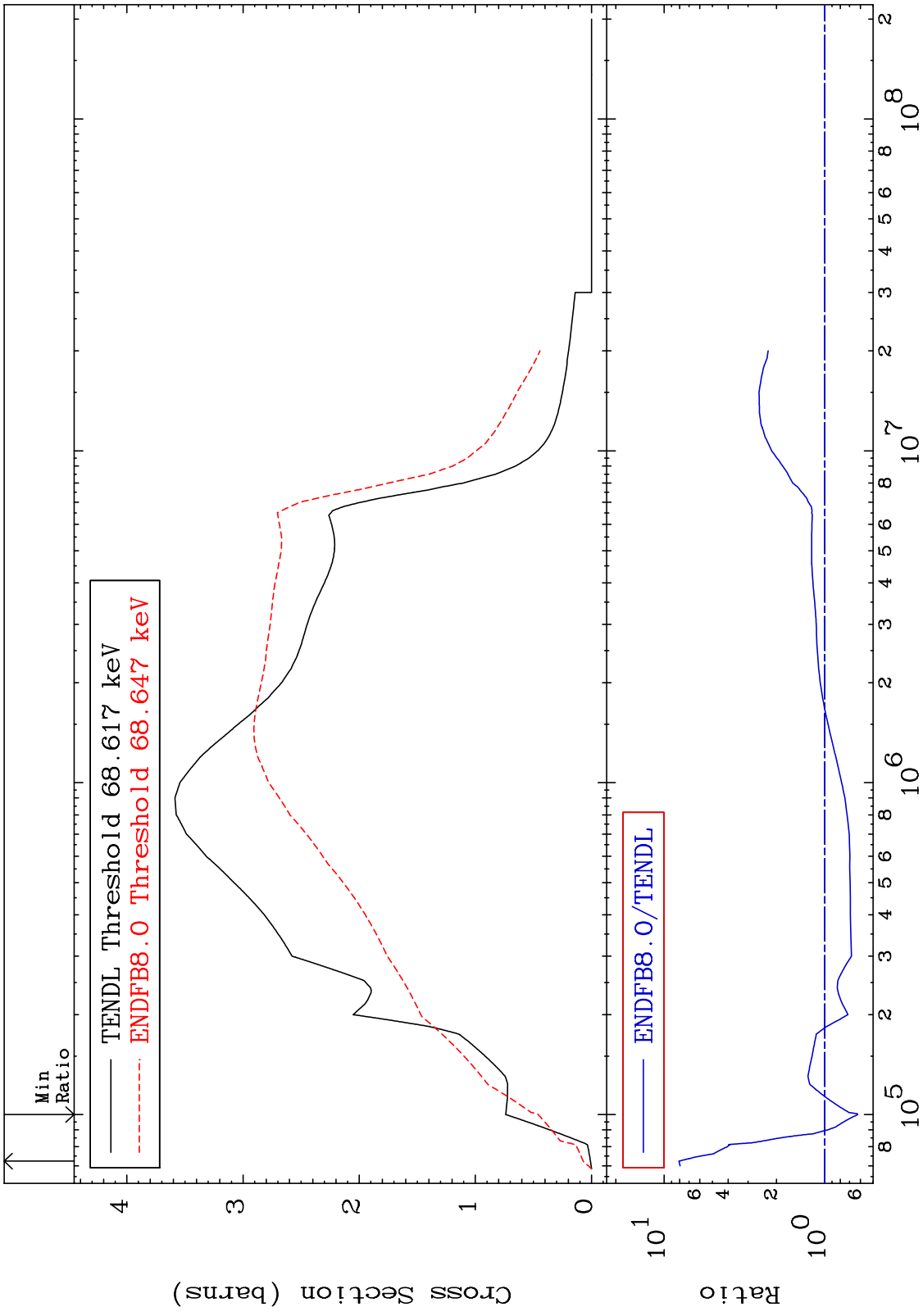


2

Incident Energy (eV)

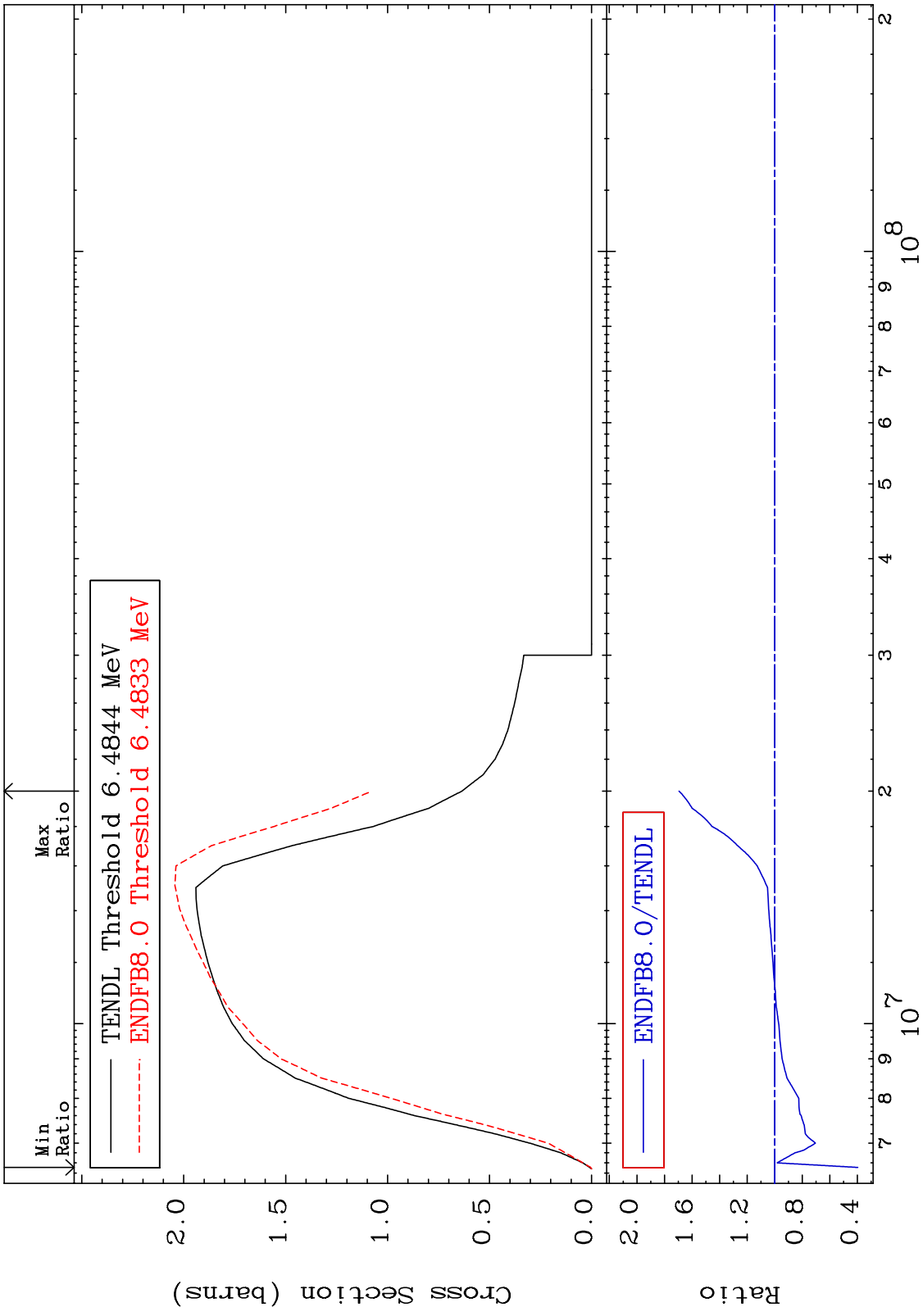
63-Eu-154

MAT 6334 Inelastic Cross Section 63-Eu-154 -37.81 To 707.8 %

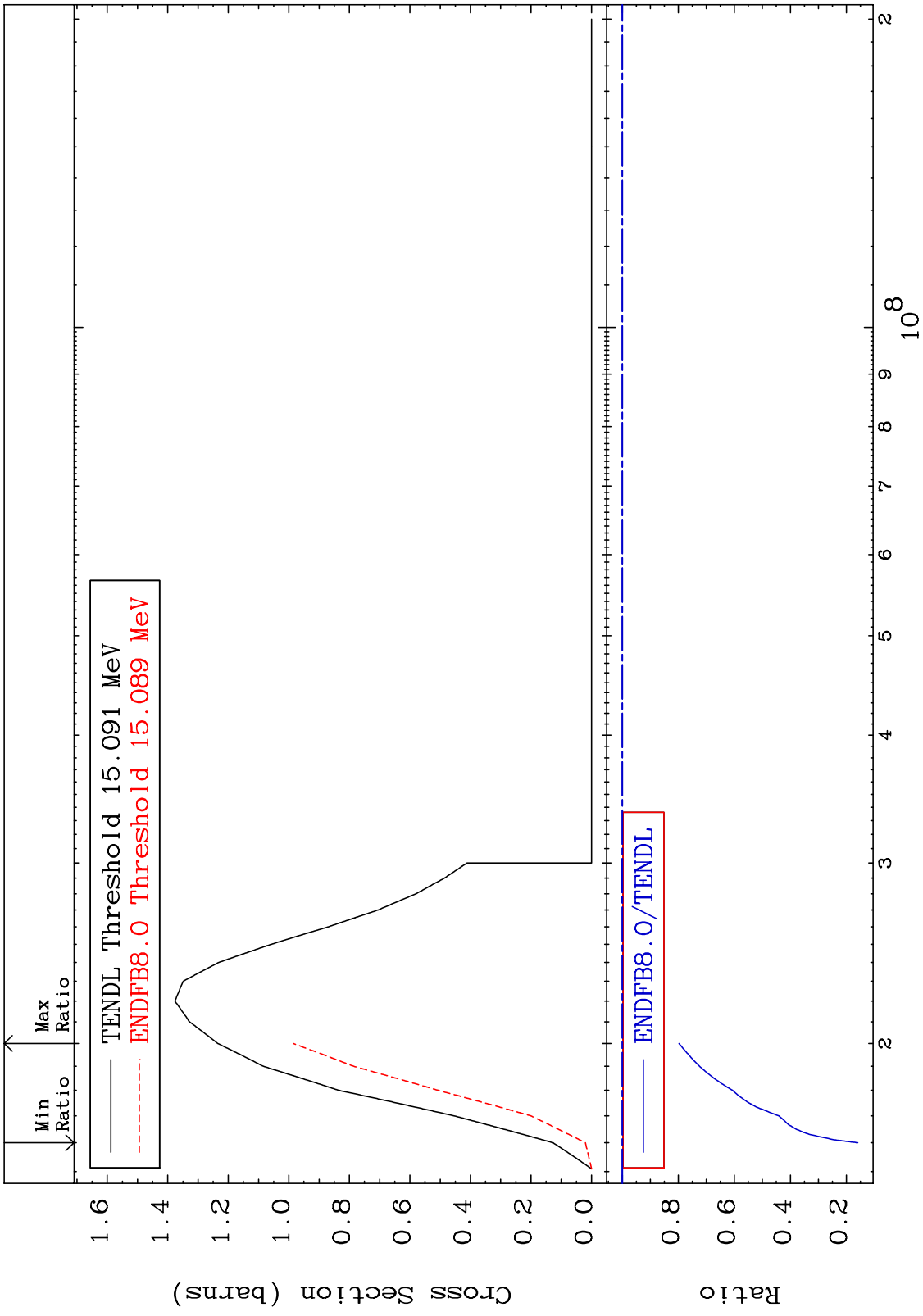


3 63-Eu-154

MAT 6334 (n,2n) Cross Section 63-Eu-154 -60.32 To 69.42 %



MAT 6334 (n,3n) Cross Section 63-Eu-154 -84.10 To -20.24%



5 Incident Energy (eV) 63-Eu-154

MAT 6334

(n, n') α

63-Eu-154

122.1 To 9999. %

Cross Section

Max Ratio

Min Ratio

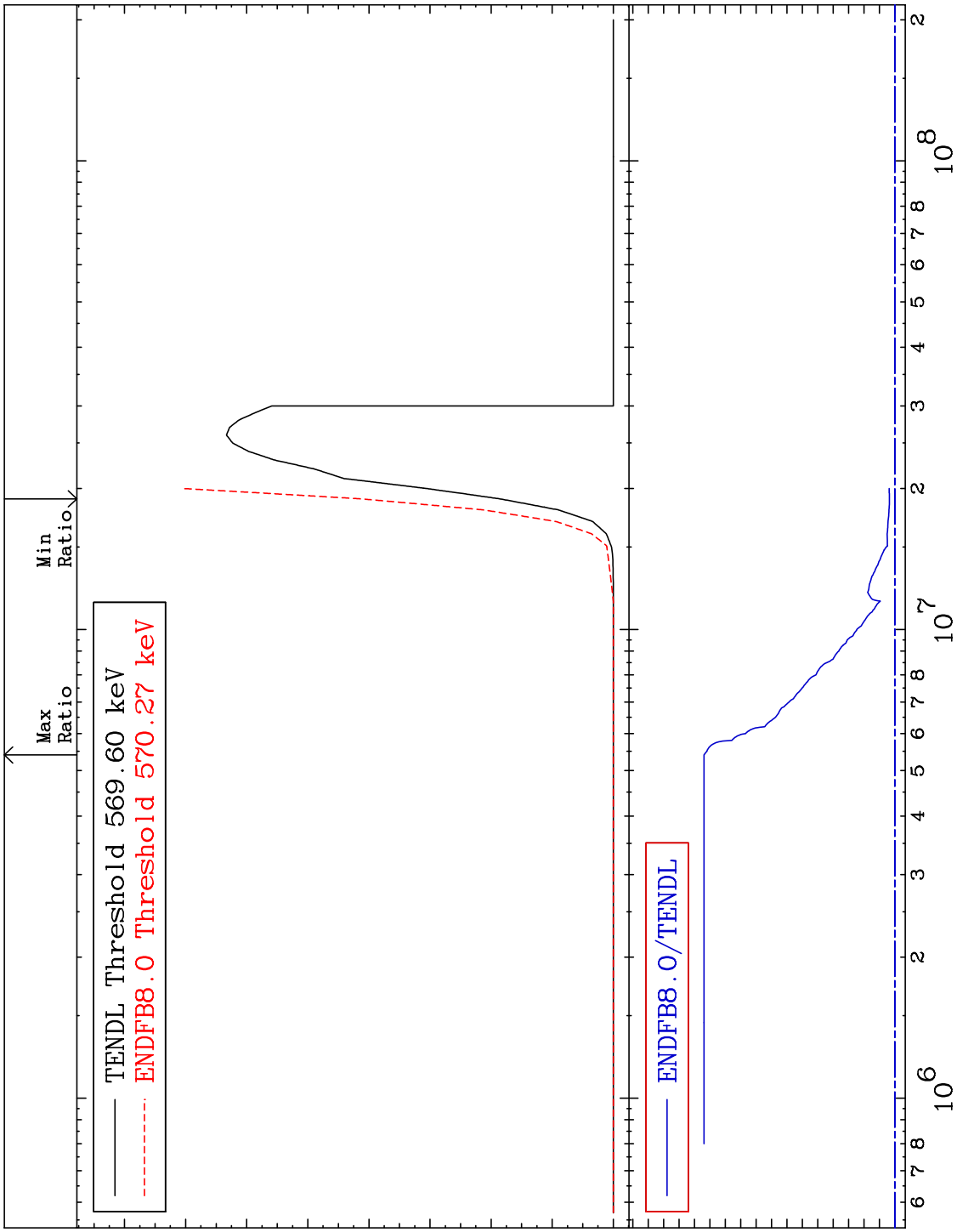
TENDL Threshold 569.60 keV
ENDFB8.0 Threshold 570.27 keV

Cross Section (milli-barns)

ENDFB8.0/TENDL

Ratio

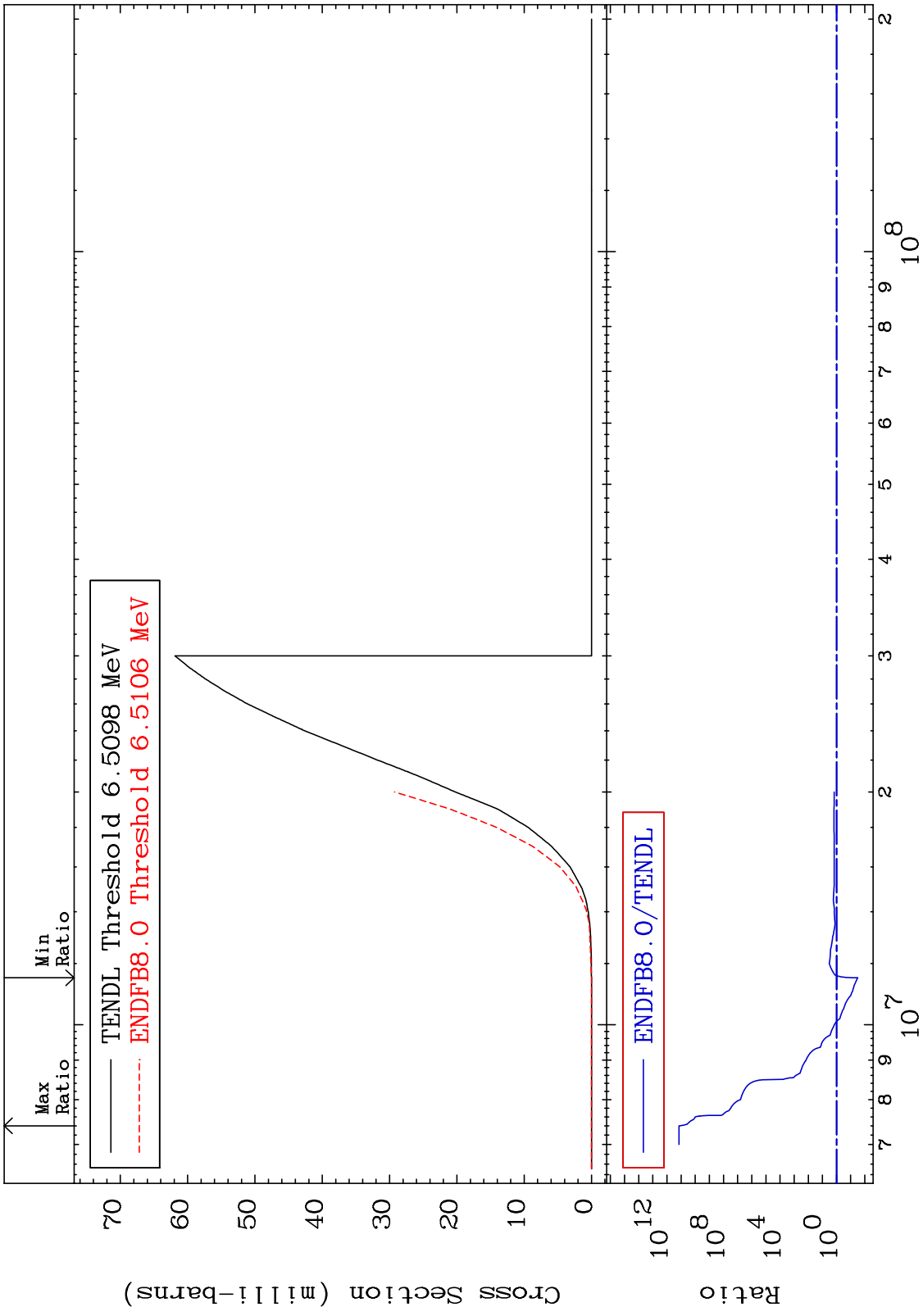
6



63-Eu-154

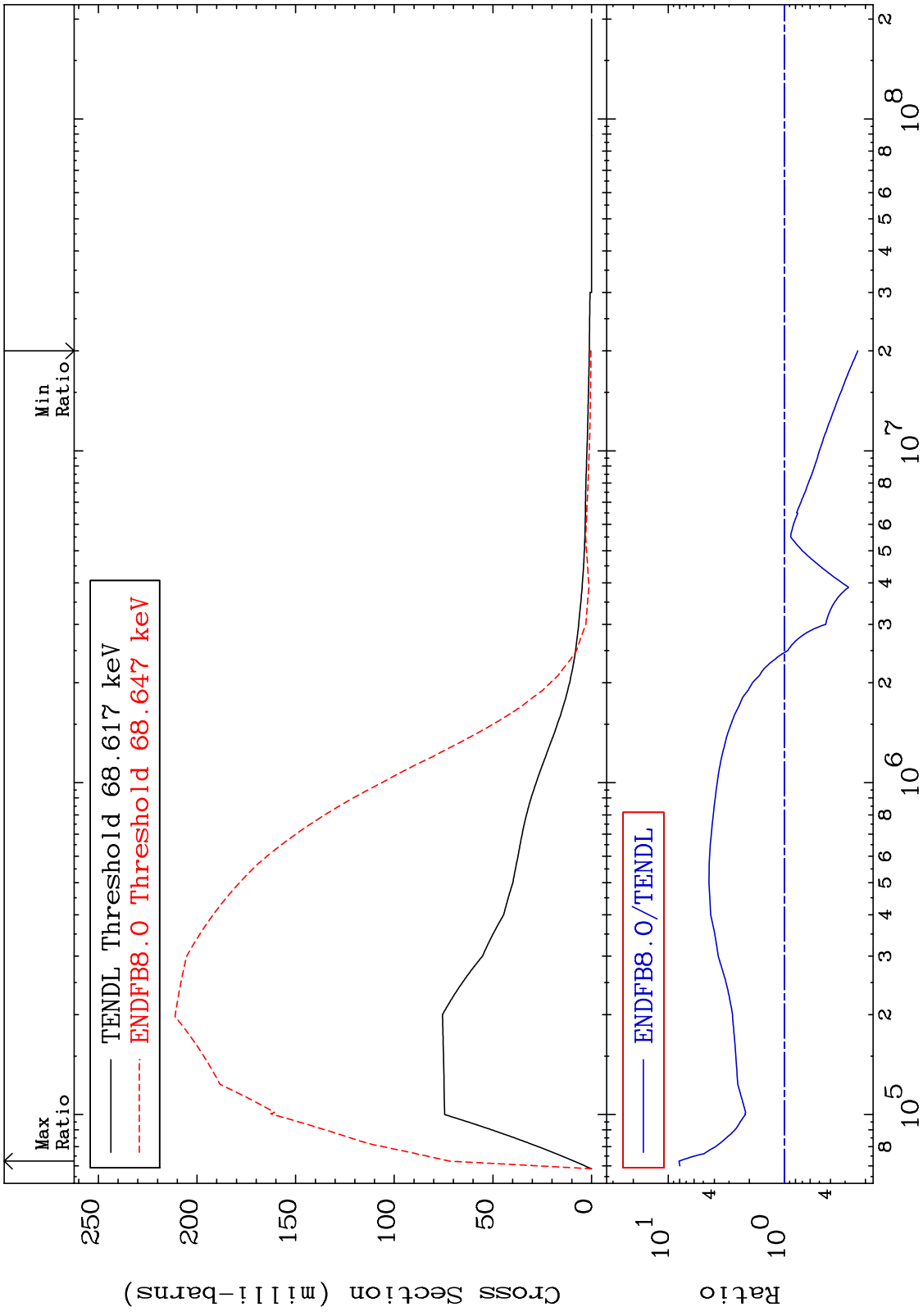
Incident Energy (eV)

MAT 6334 (n,n') p 63-Eu-154
 Cross Section -96.88 To 9999. %



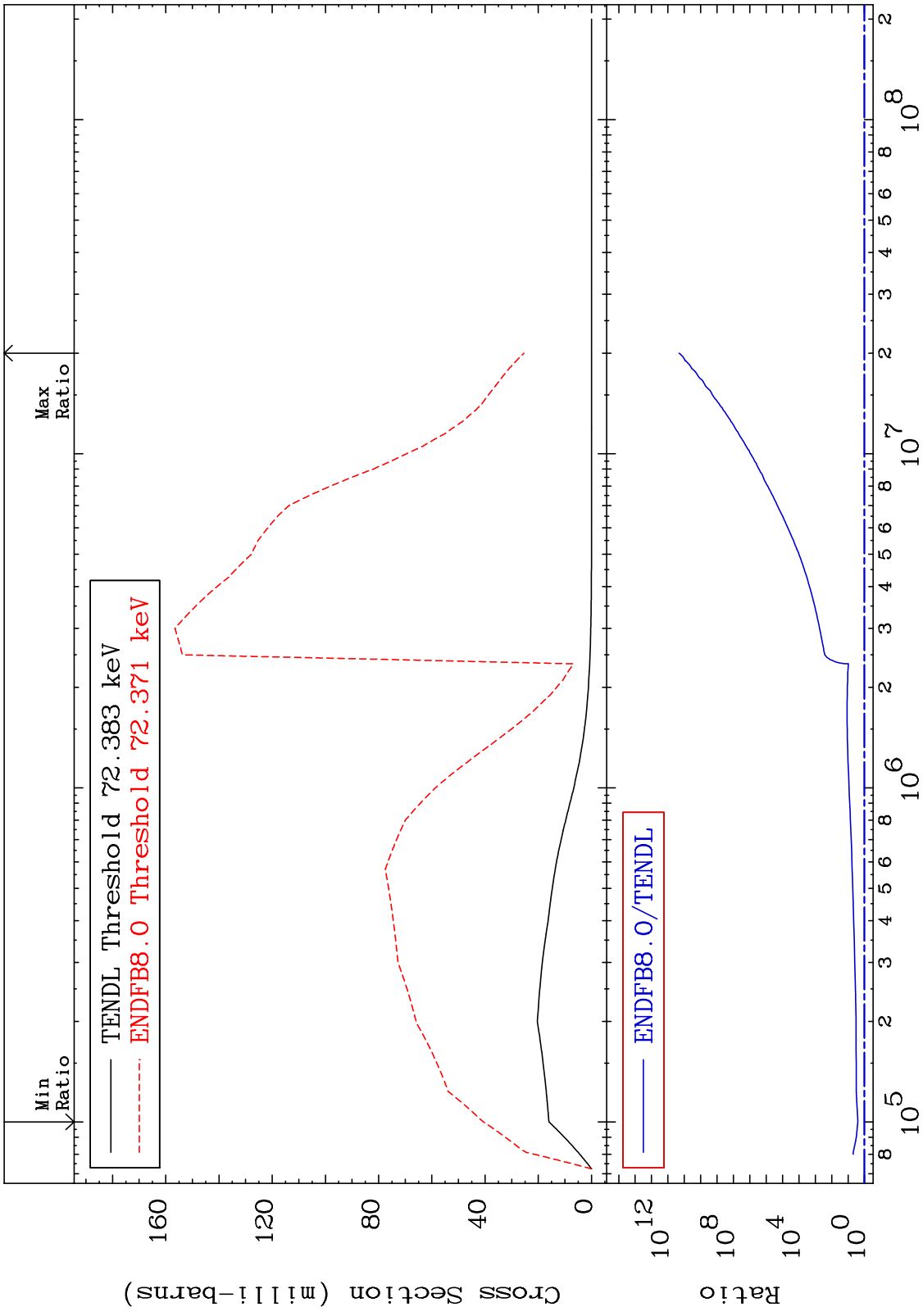
7 63-Eu-154 Incident Energy (eV)

MAT 6334 MT= 51 (n,n') Level Cross Section 63-Eu-154 -76.73 To 707.8 %

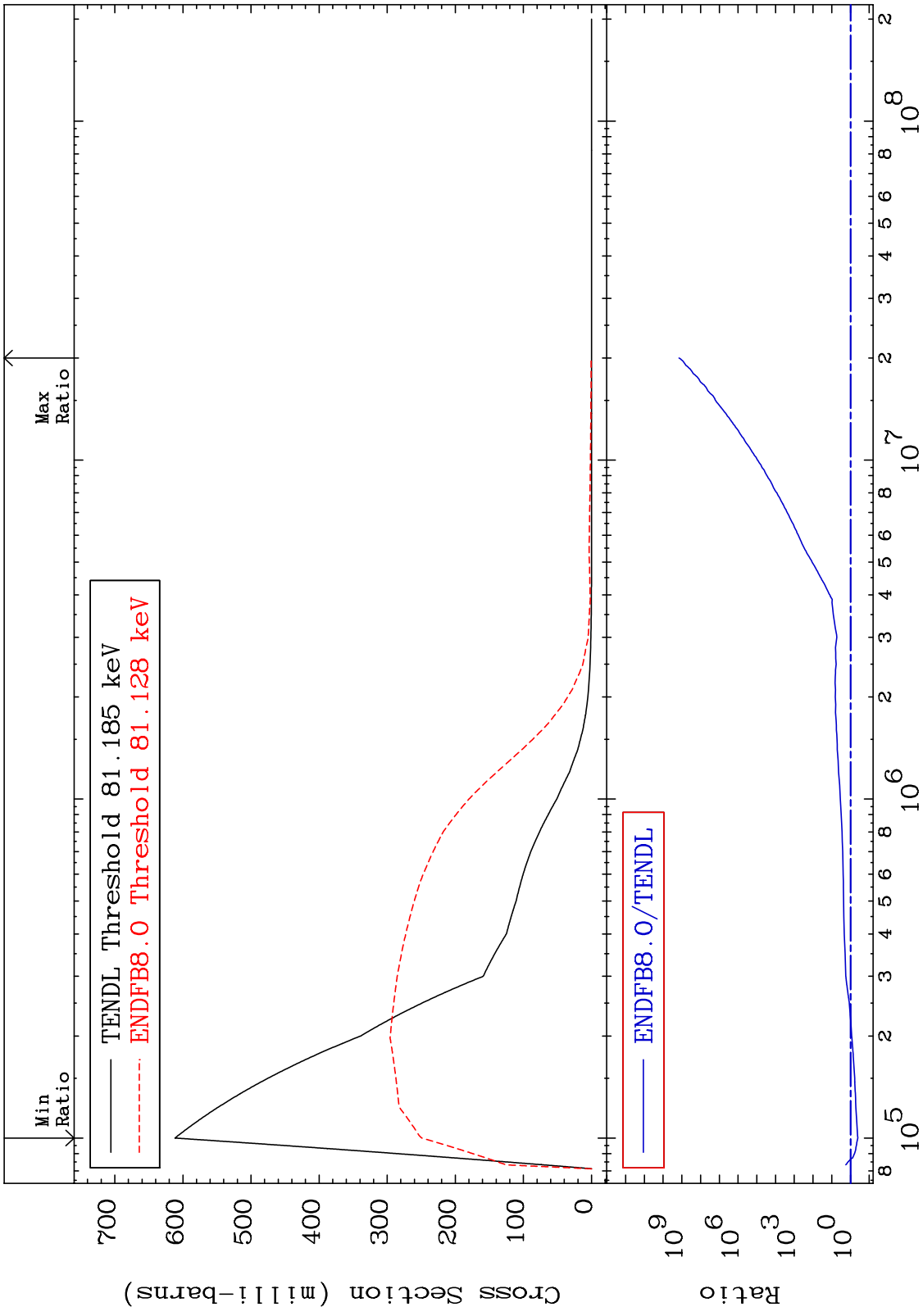


8 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 52 (n,n') Level Cross Section 63-Eu-154 153.4 To 9999. %

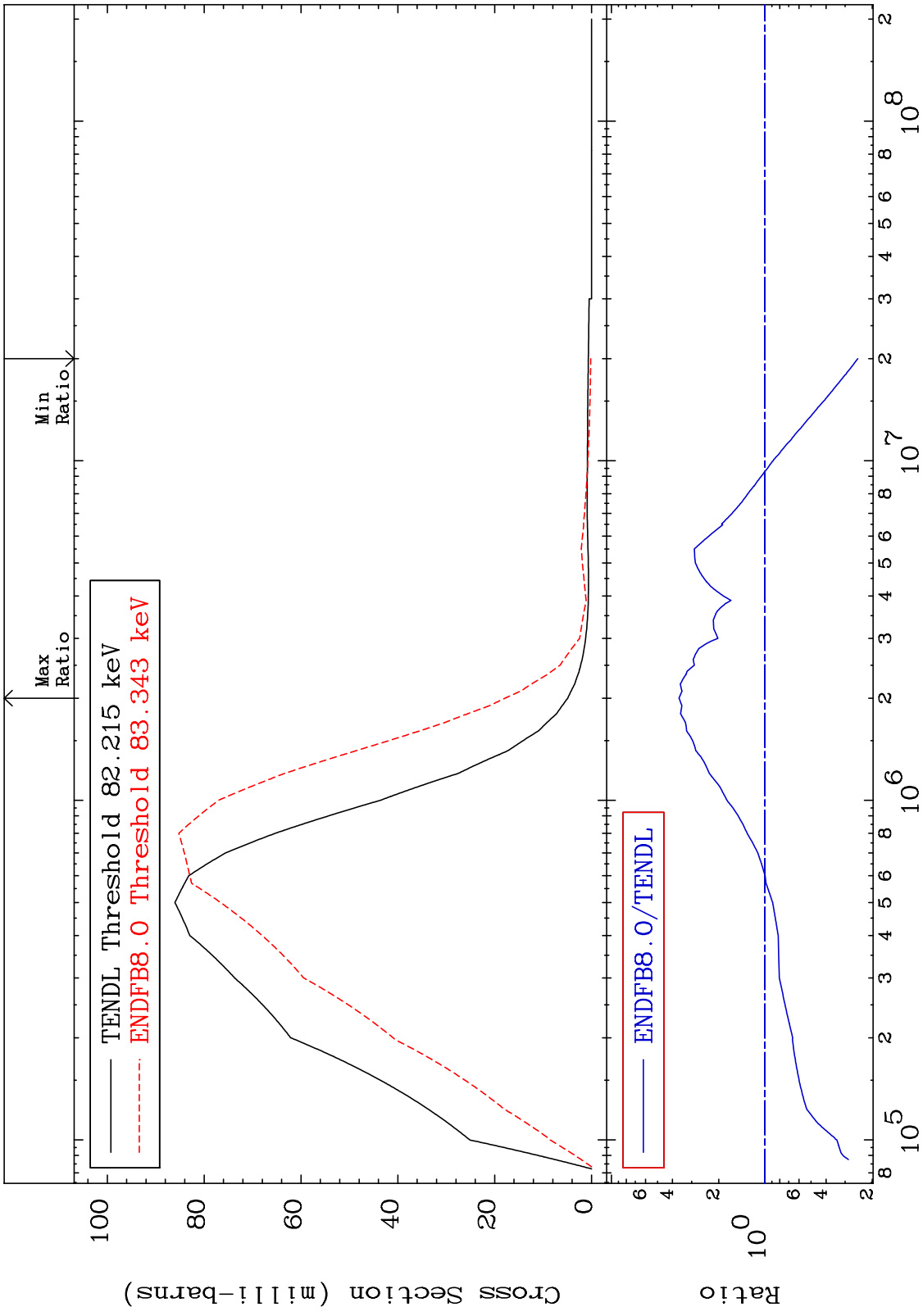


MAT 6334 MT= 53 (n,n') Level Cross Section 63-Eu-154 -59.30 To 9999. %

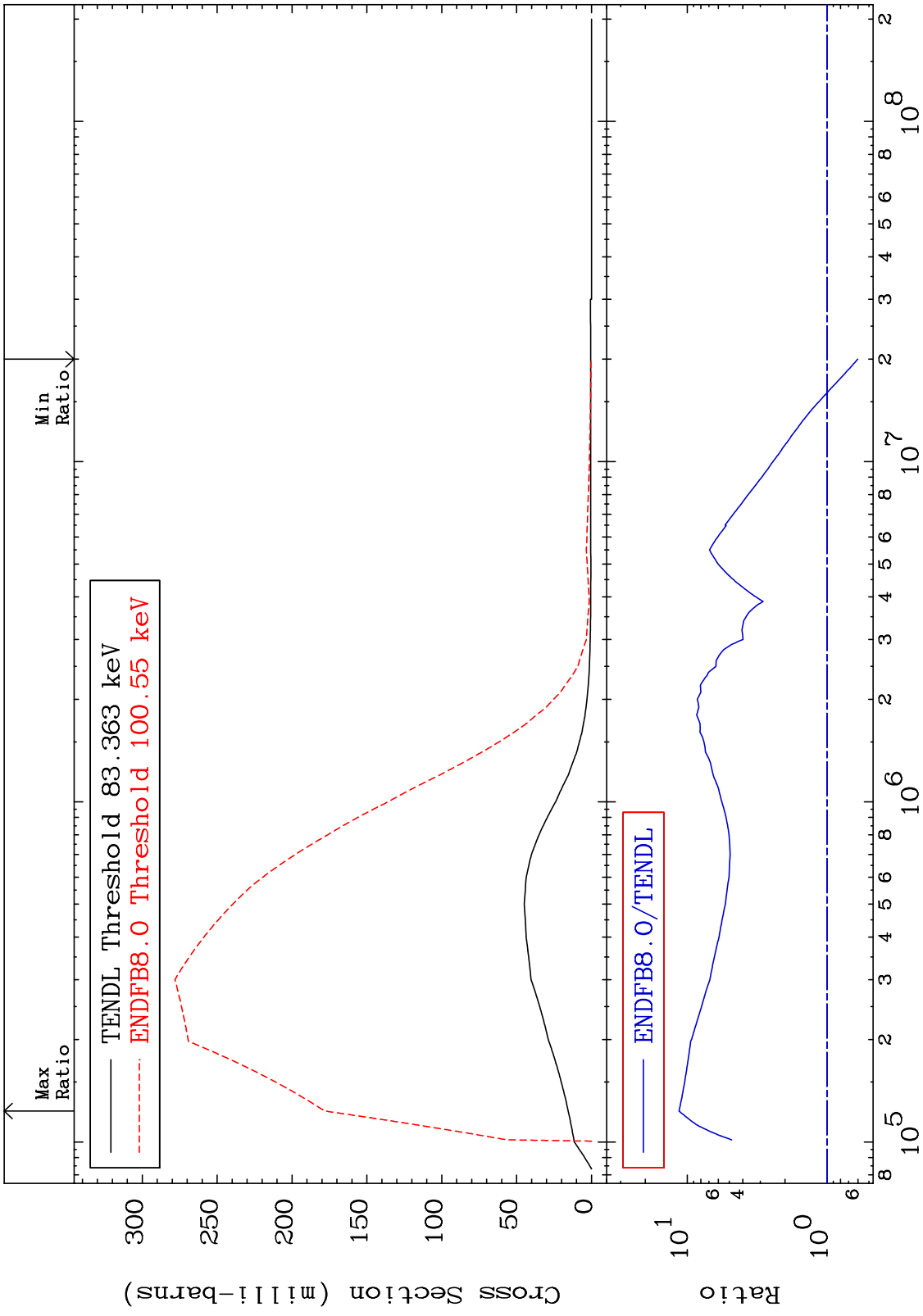


63-Eu-154

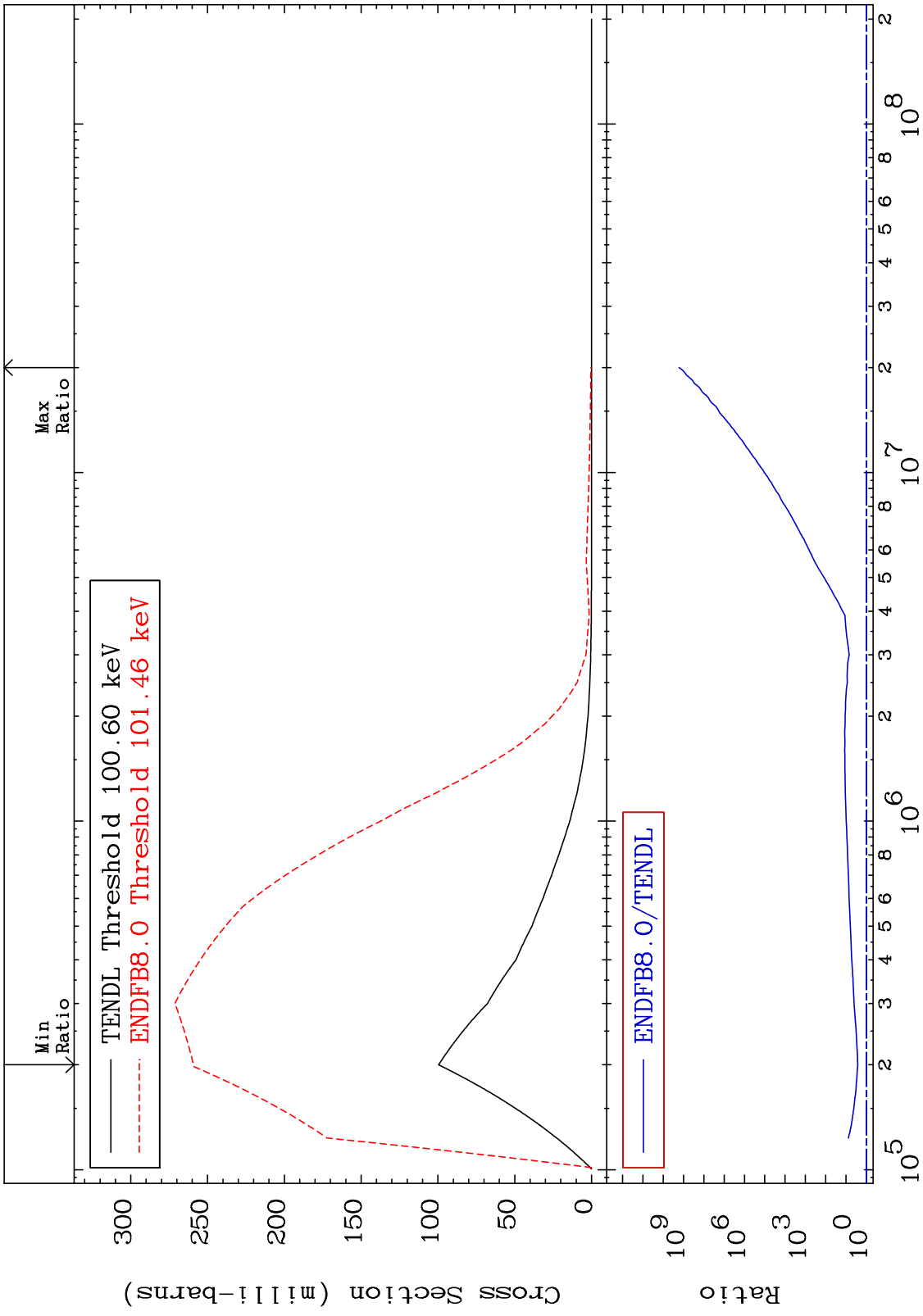
MAT 6334 MT= 54 (n,n') Level Cross Section 63-Eu-154 -75.19 To 262.5 %



MAT 6334 MT= 55 (n,n') Level Cross Section 63-Eu-154 -39.89 To 1046. %

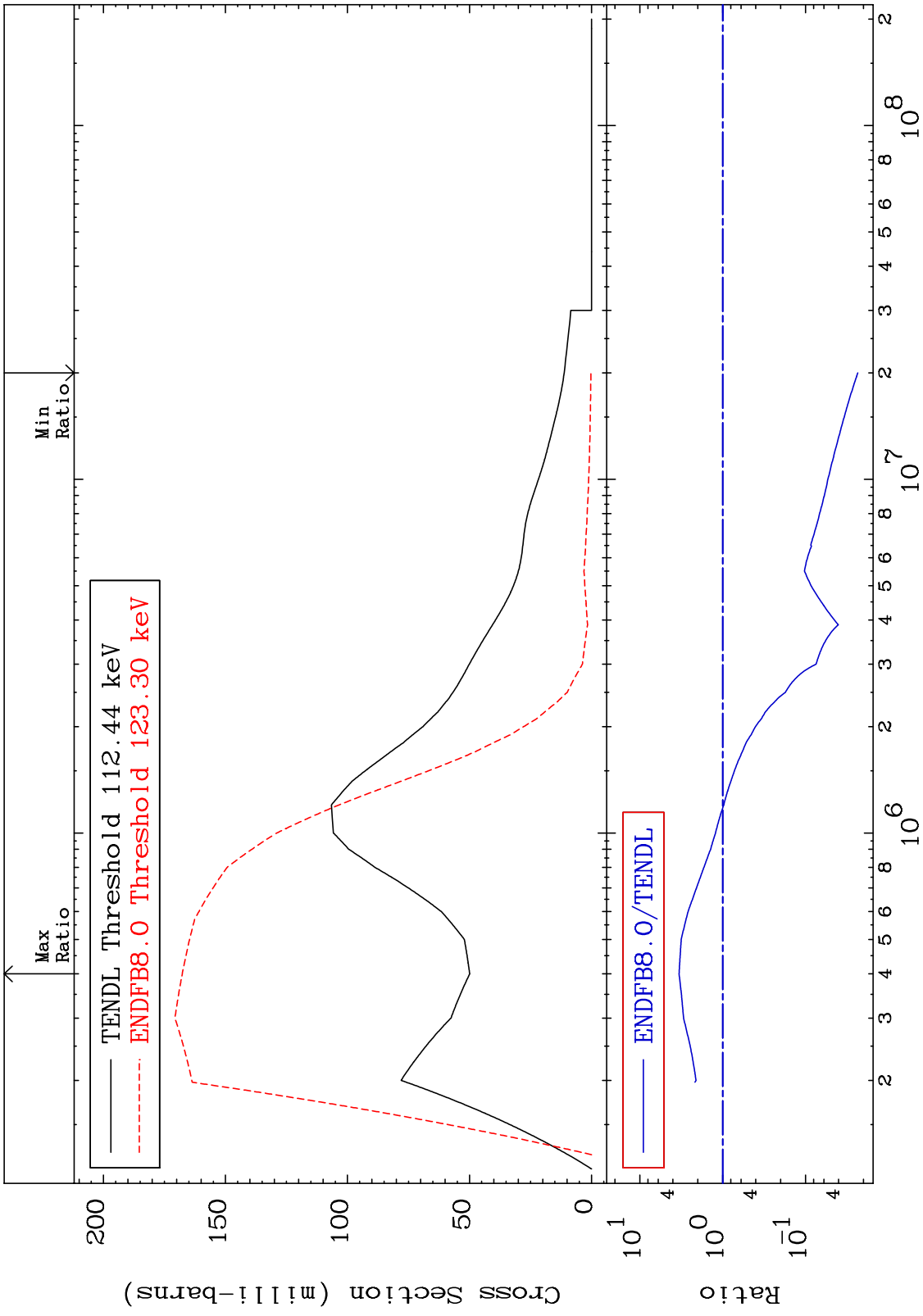


MAT 6334 MT= 56 (n,n') Level Cross Section 63-Eu-154 160.3 To 9999. %



13 Incident Energy (eV) 63-Eu-154

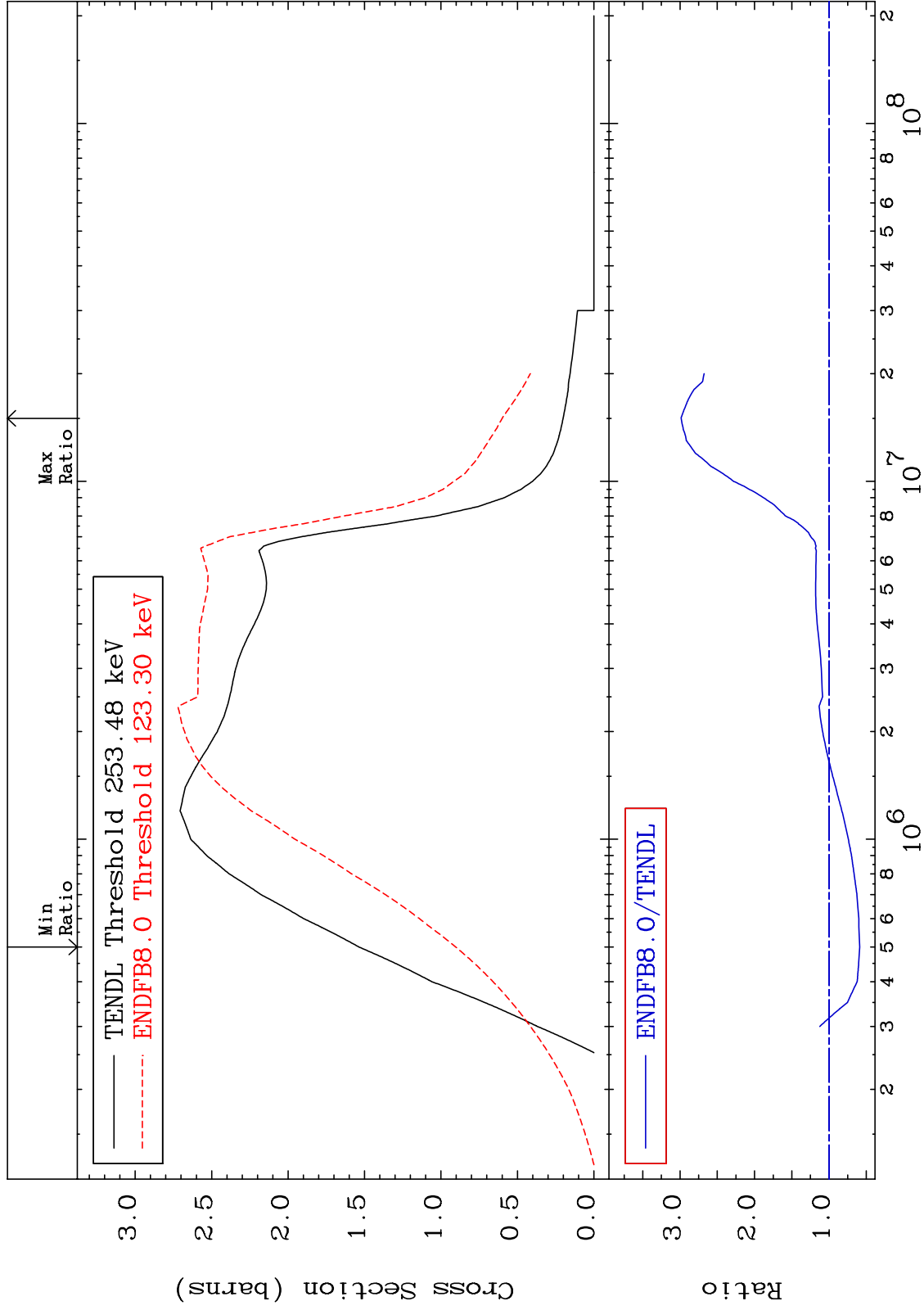
MAT 6334 MT= 57 (n,n') Level Cross Section 63-Eu-154 -97.66 To 236.1 %



MAT 6334

(n, n') Continuum
Cross Section

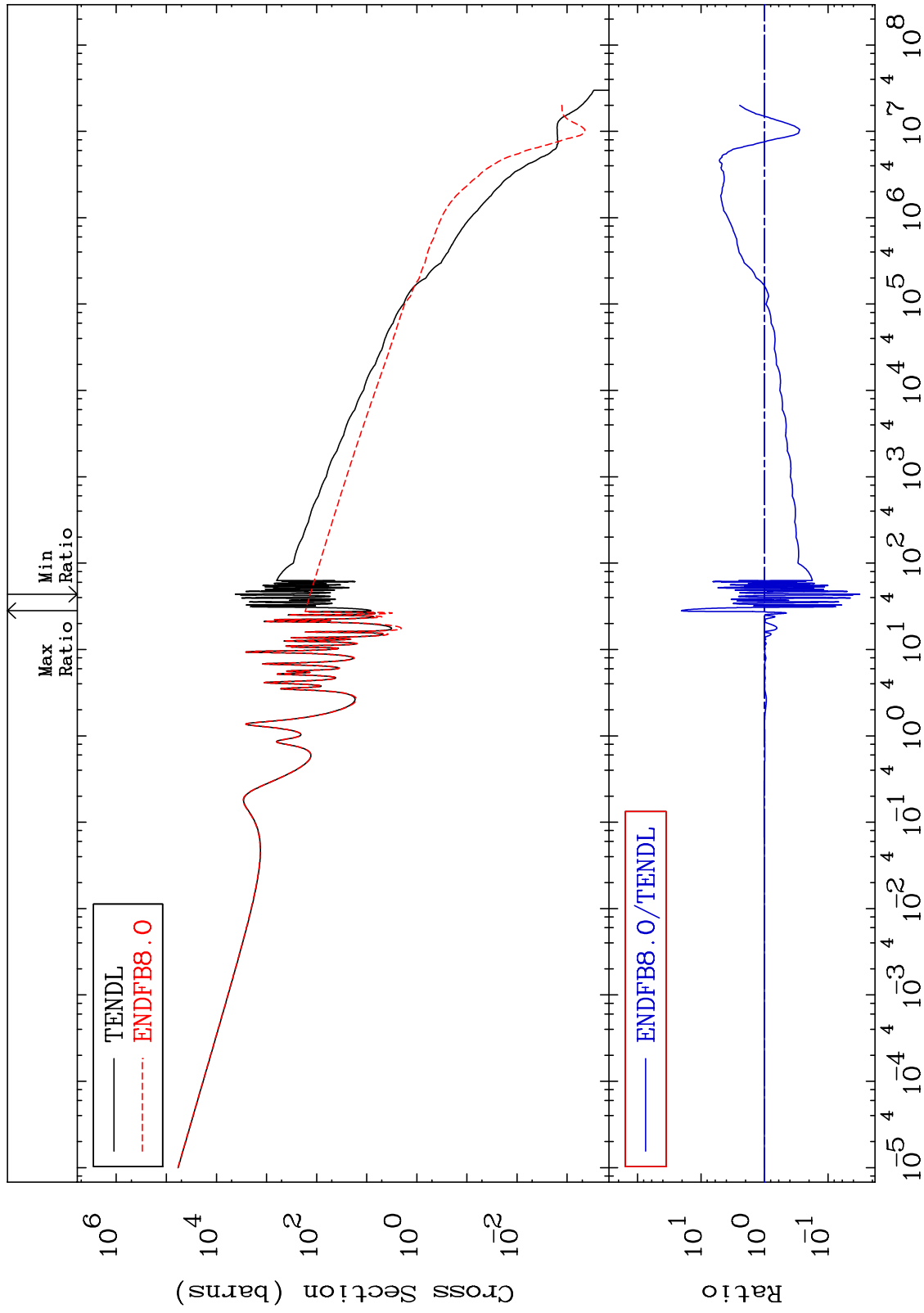
63-Eu-154
-41.19 To 198.4 %



MAT 6334

(n, γ)
Cross Section

63-Eu-154
-96.83 To 1953. %



MAT 6334

(n,p)

63-Eu-154

Cross Section

-100.0 To 1754. %

Min Ratio

Max Ratio

TENDL
ENDFB8.0

Cross Section (milli-barns)

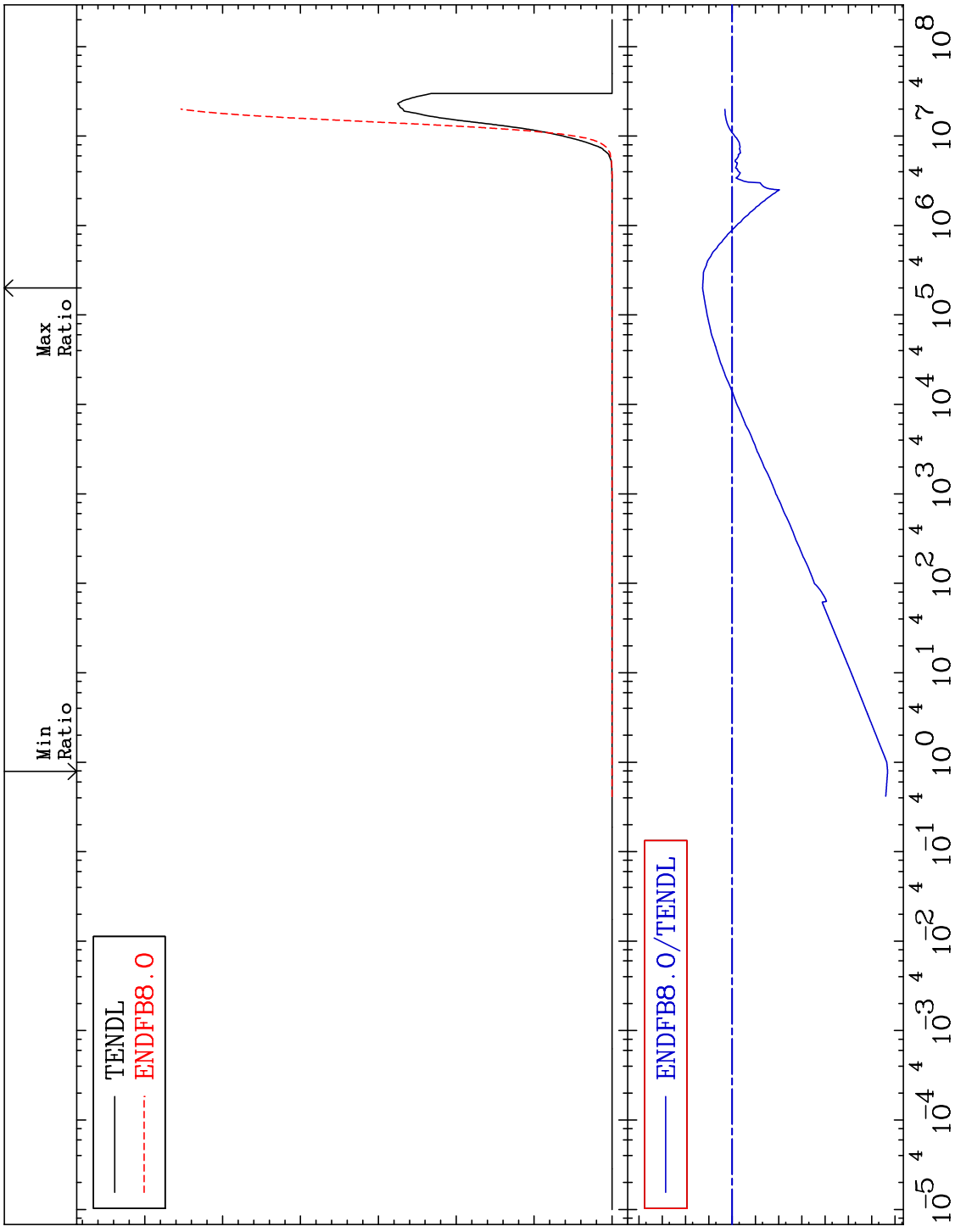
ENDFB8.0/TENDL

Ratio

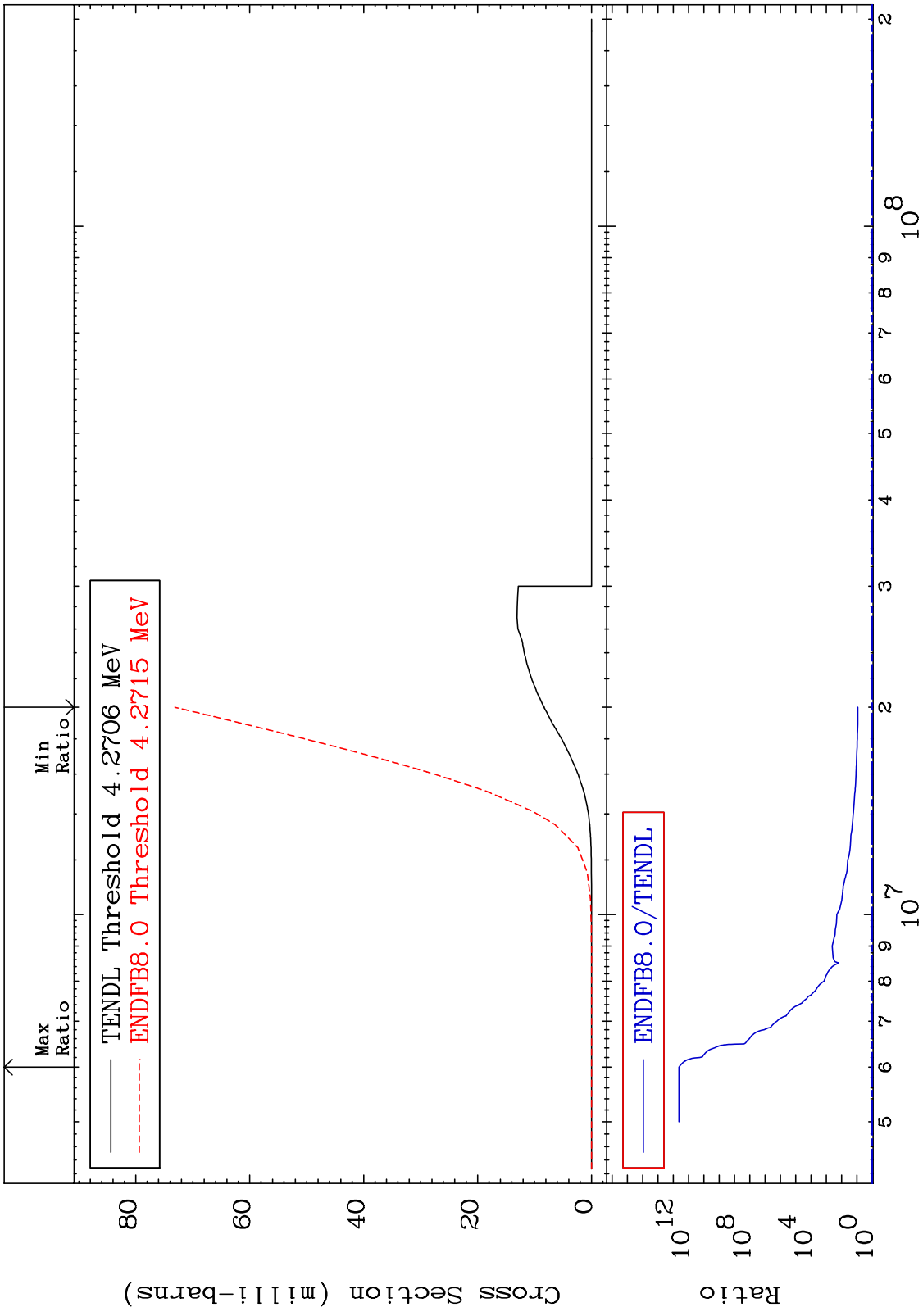
Incident Energy (eV)

63-Eu-154

17

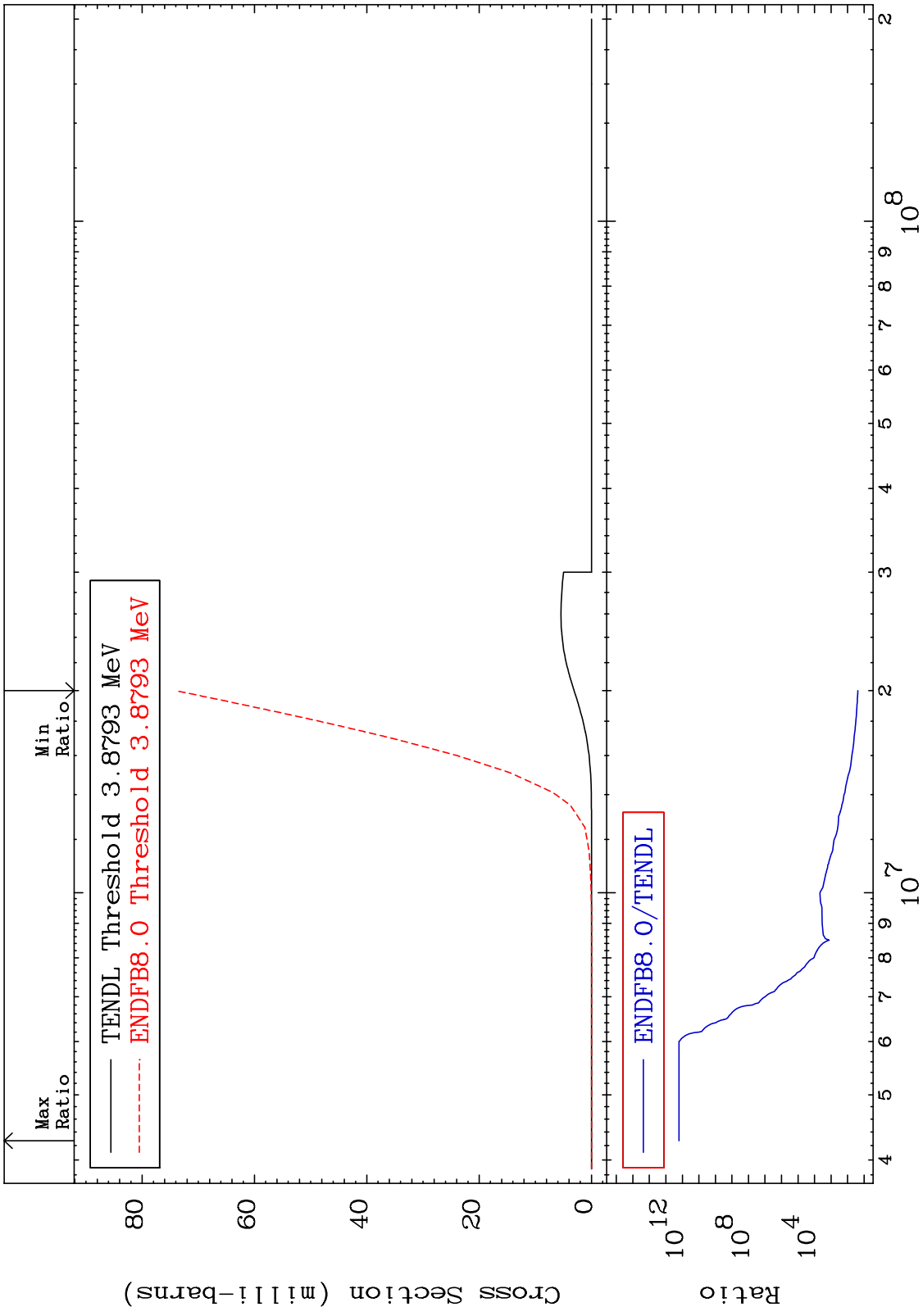


MAT 6334 (n,d) Cross Section 63-Eu-154 777.3 To 9999. %

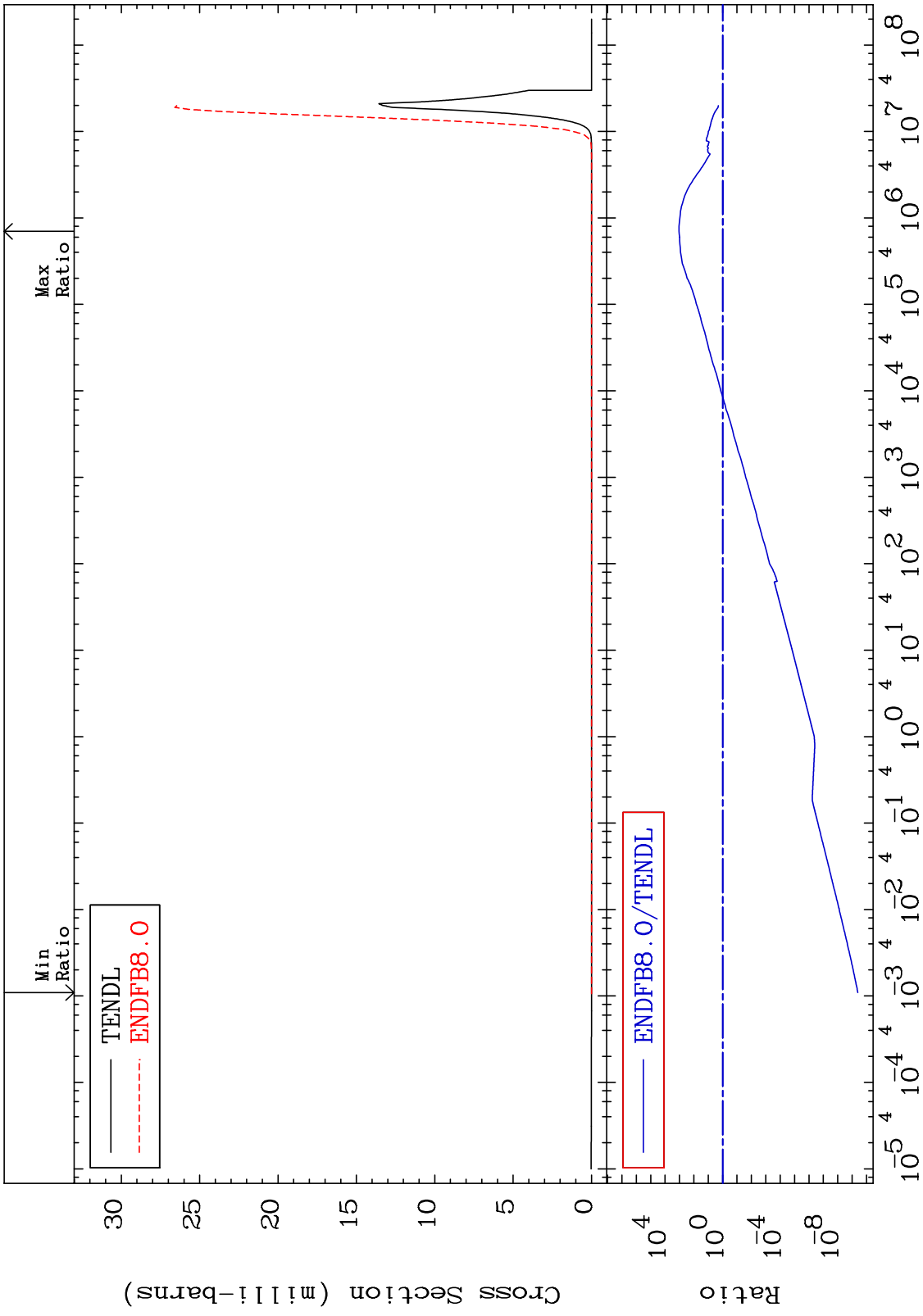


18 63-Eu-154

MAT 6334 (n,t) Cross Section 63-Eu-154 2290. To 9999. %



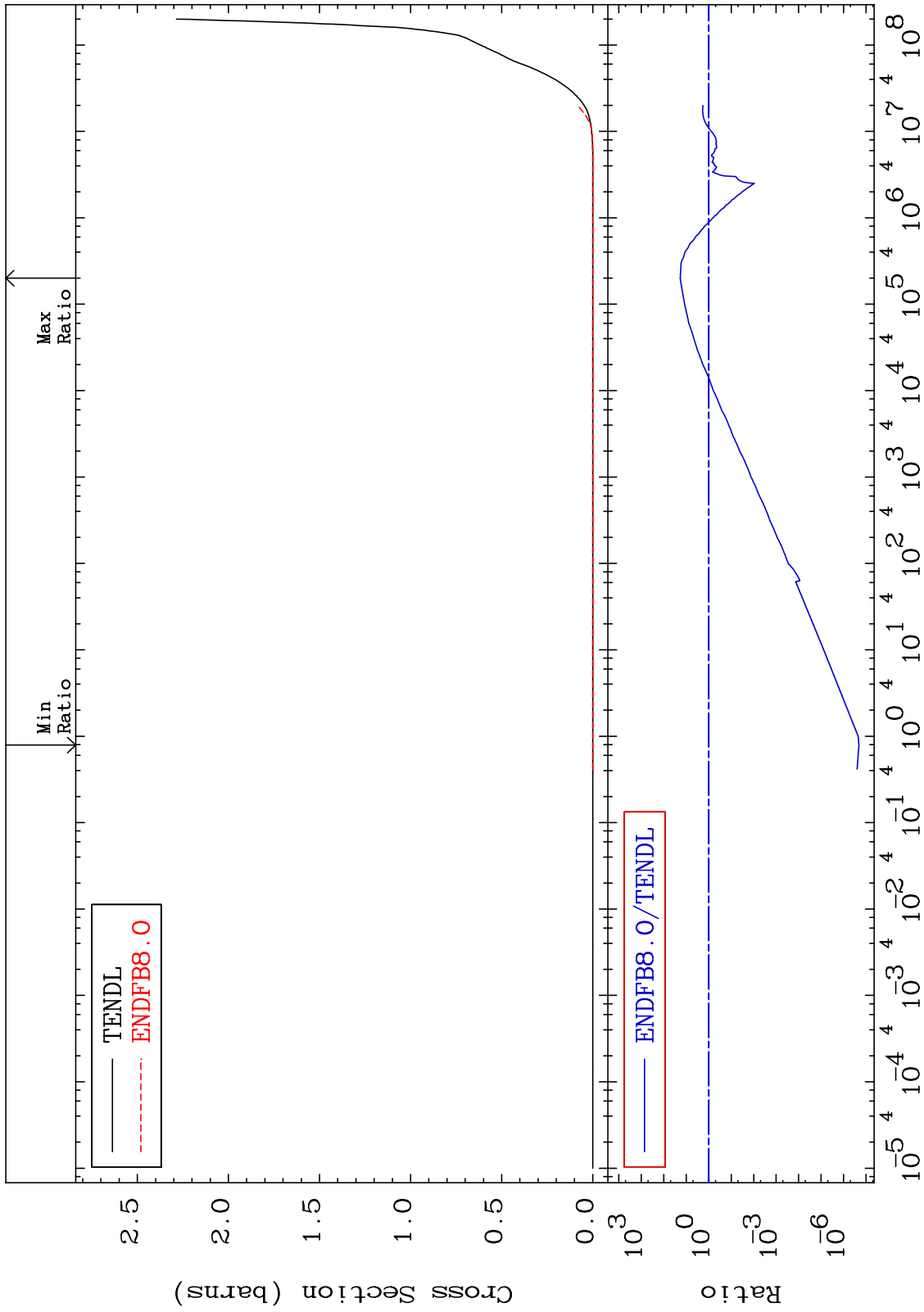
MAT 6334 63-Eu-154
 (n,α) -100.0 To 9999. %
 Cross Section



MAT 6334

Hydrogen Production
Cross Section

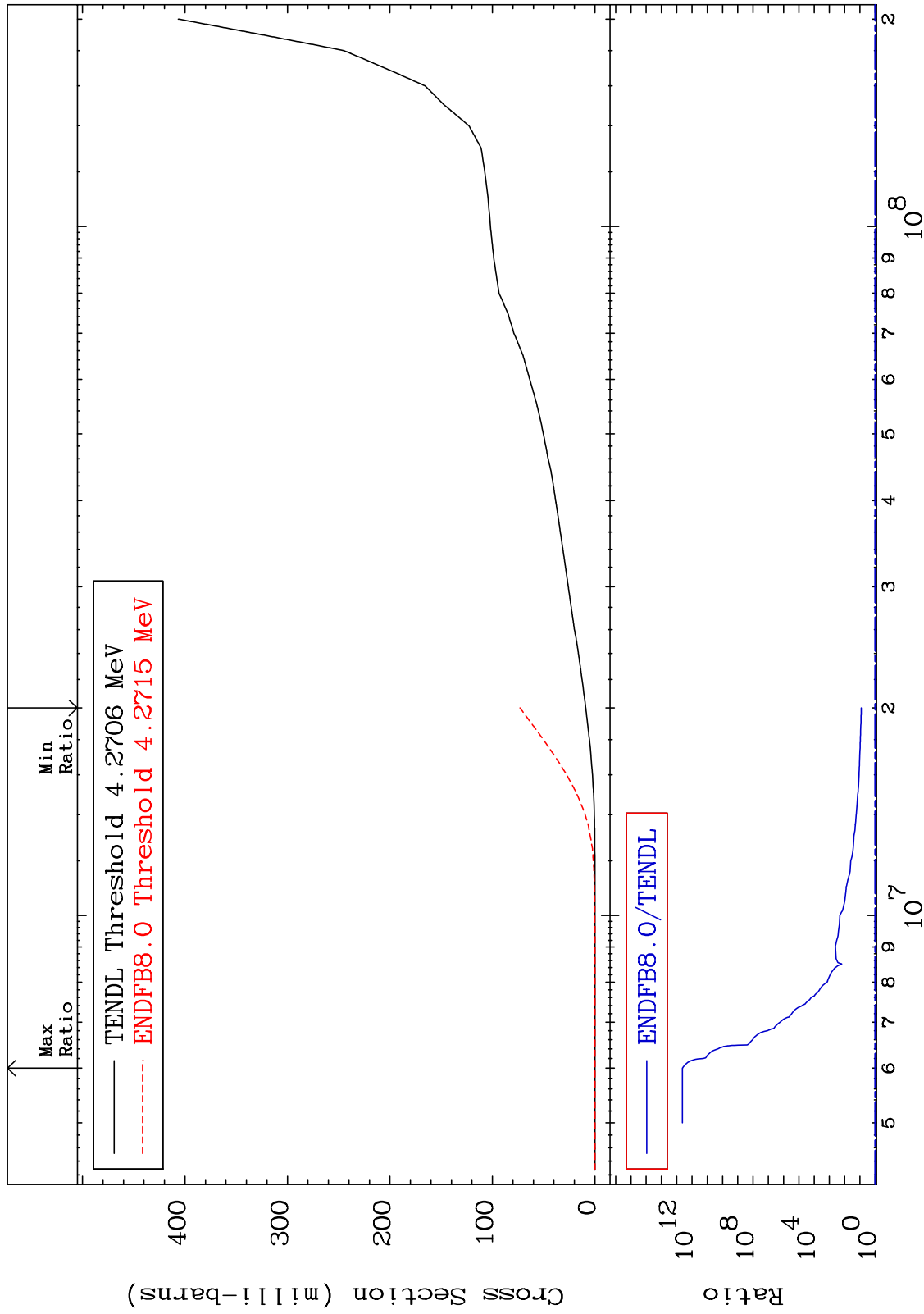
63-Eu-154
-100.0 To 1754. %



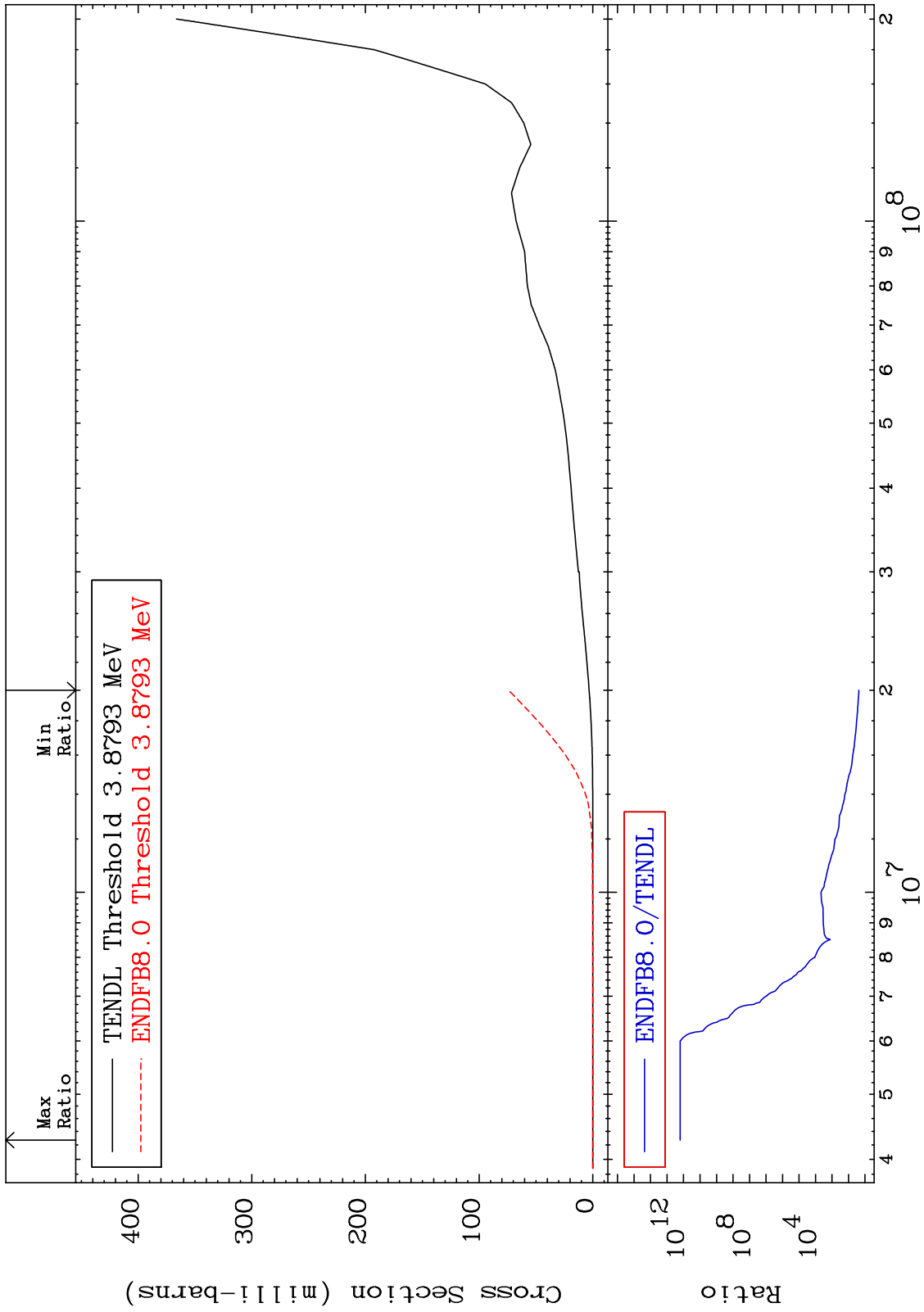
MAT 6334

Deuterium Production
Cross Section

$^{63}\text{Eu-154}$
718.5 To 9999. %

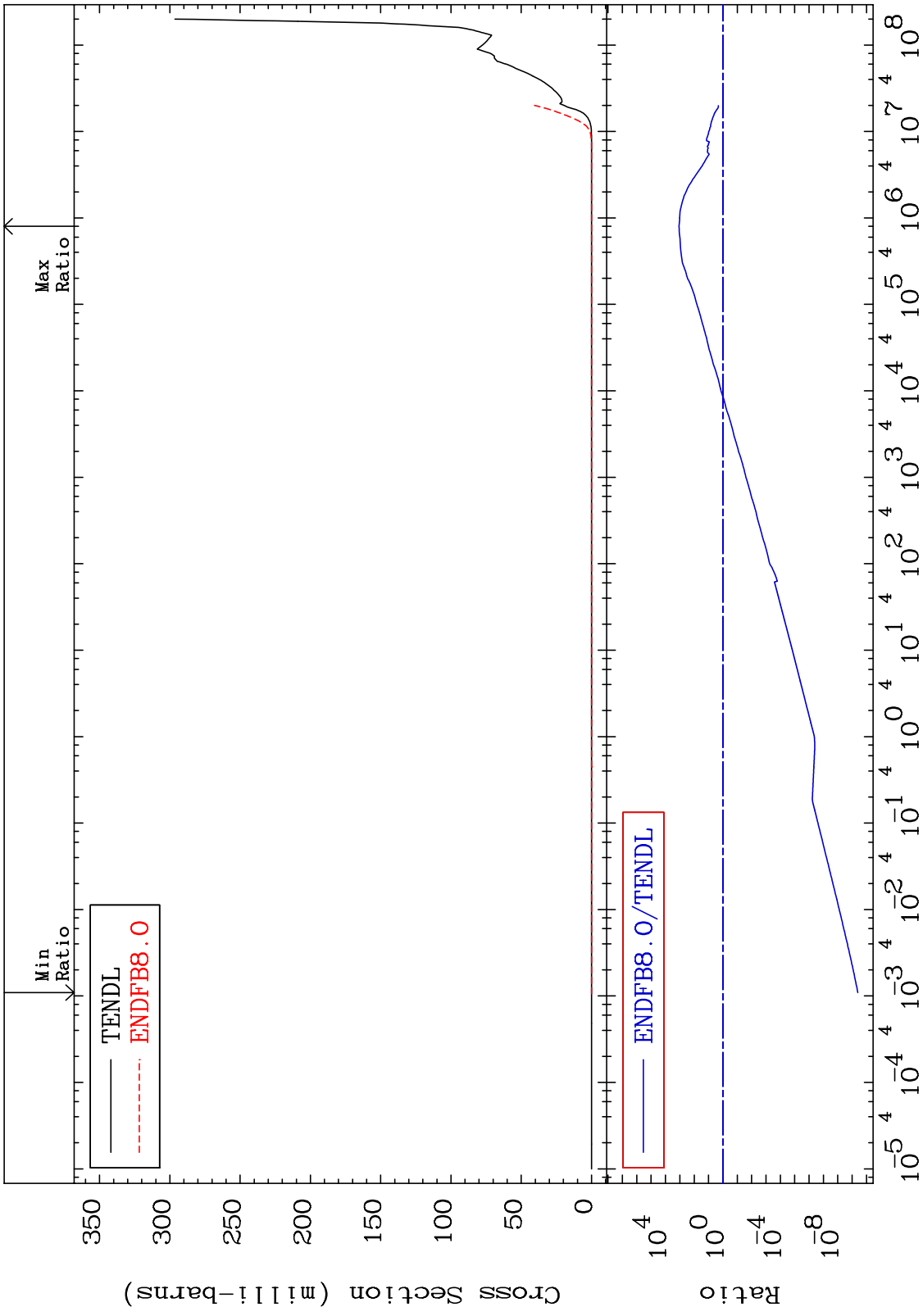


MAT 6334 Tritium Production Cross Section 63-Eu-154 2248. To 9999. %

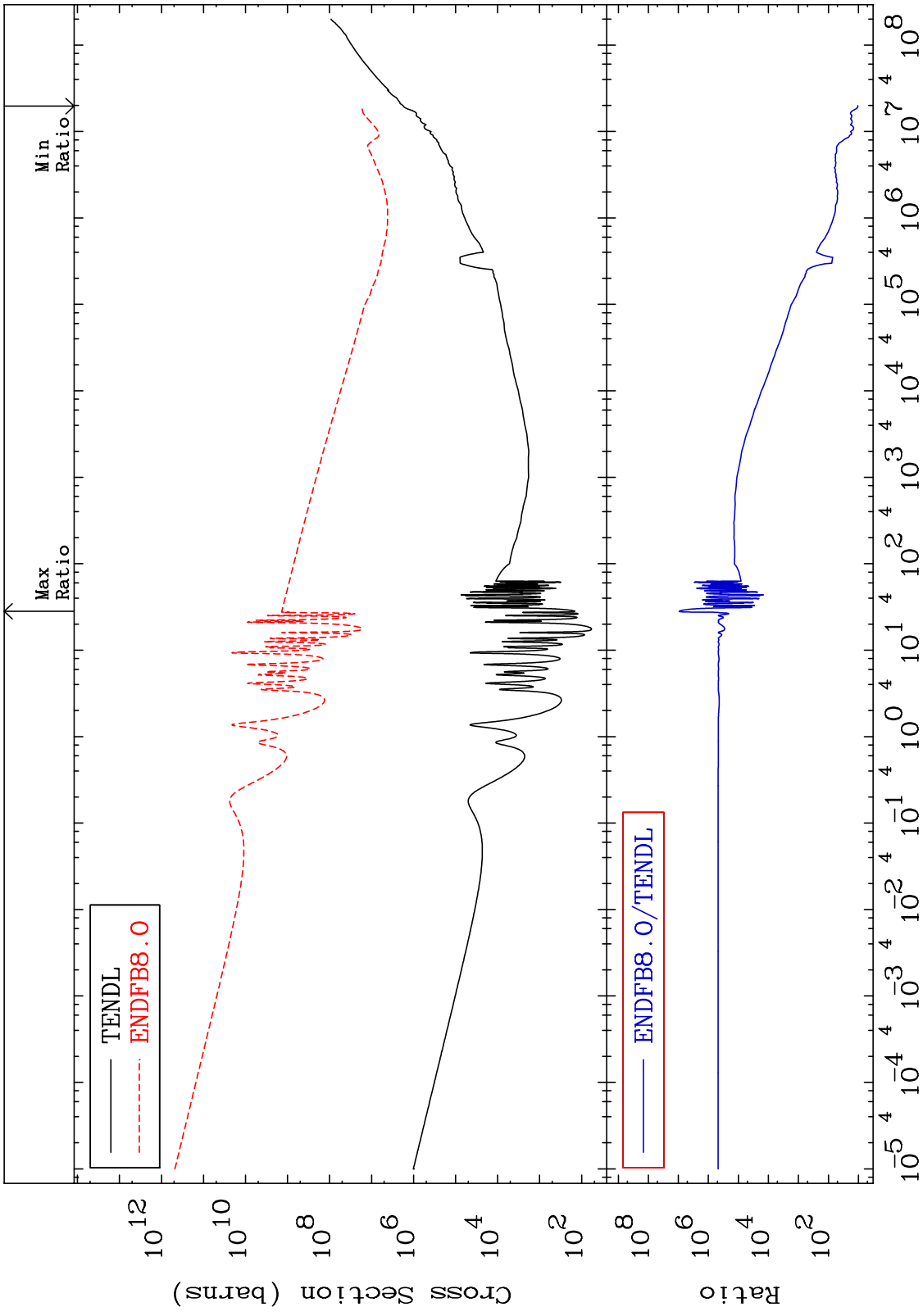


23 63-Eu-154

MAT 6334 He-4 Production Cross Section 63-Eu-154
 -100.0 To 9999. %



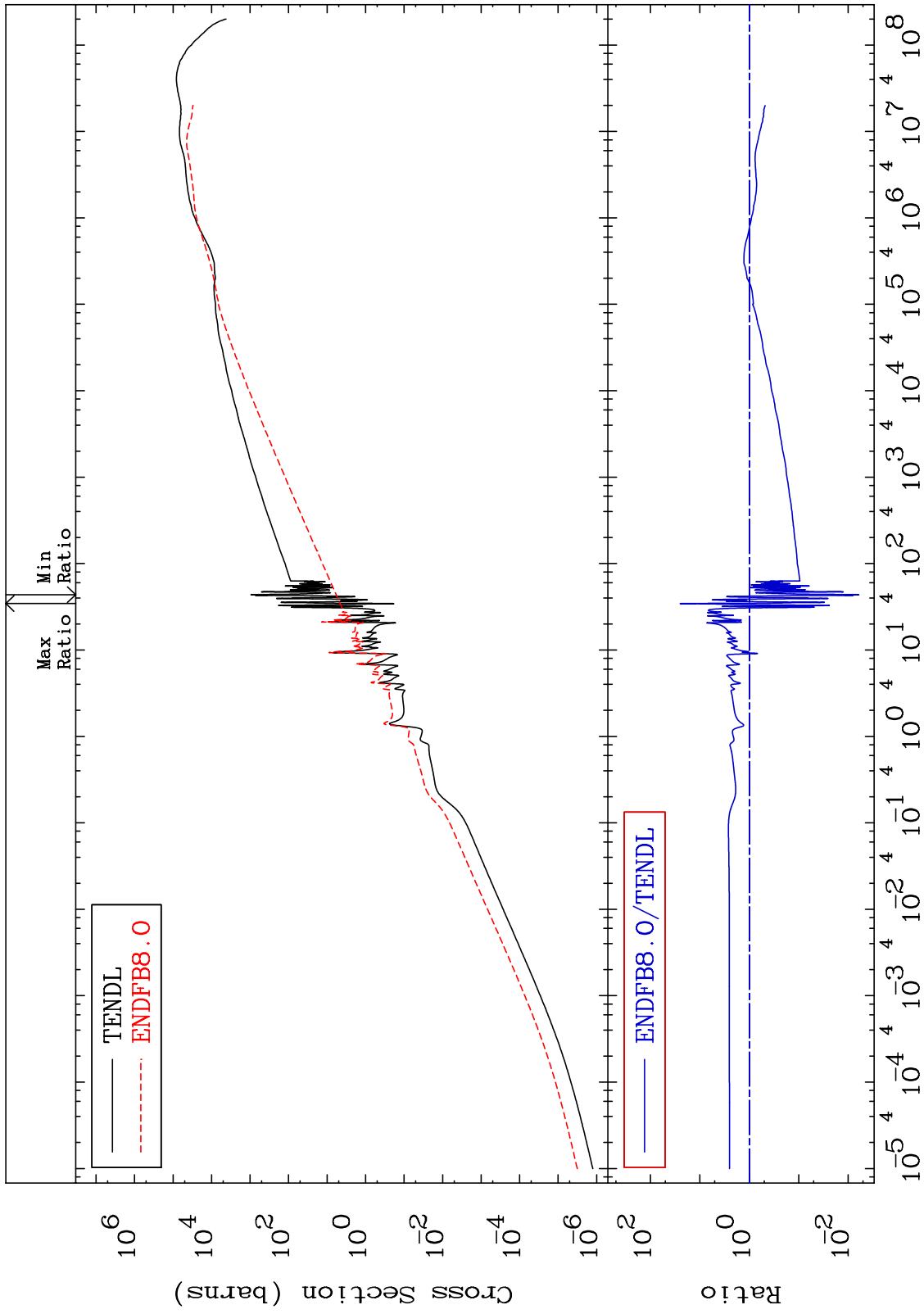
MAT 6334 Kerma total (eV-barns) Cross Section 63-Eu-154 945.4 To 9999. %



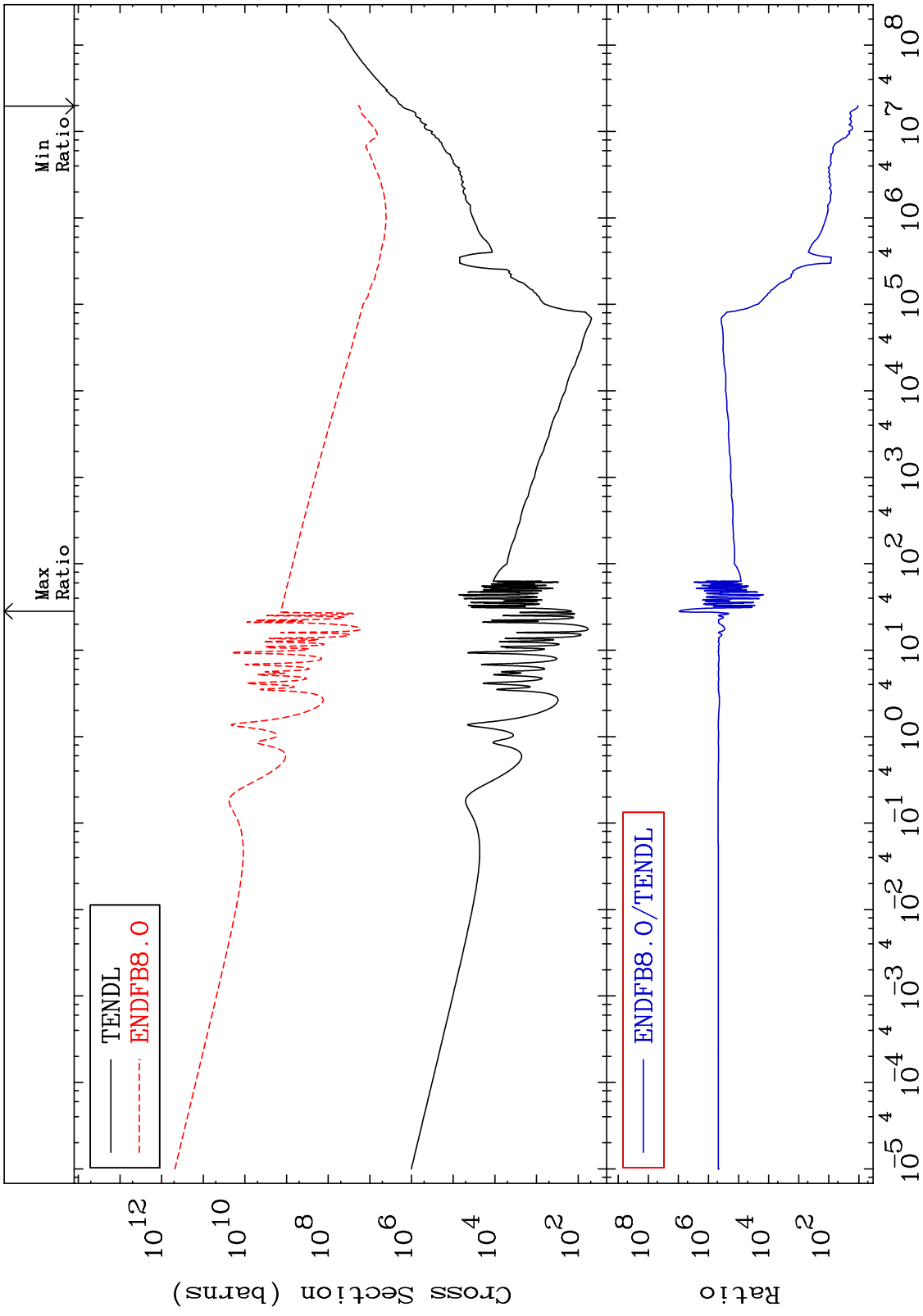
MAT 6334

Kerma elastic
Cross Section

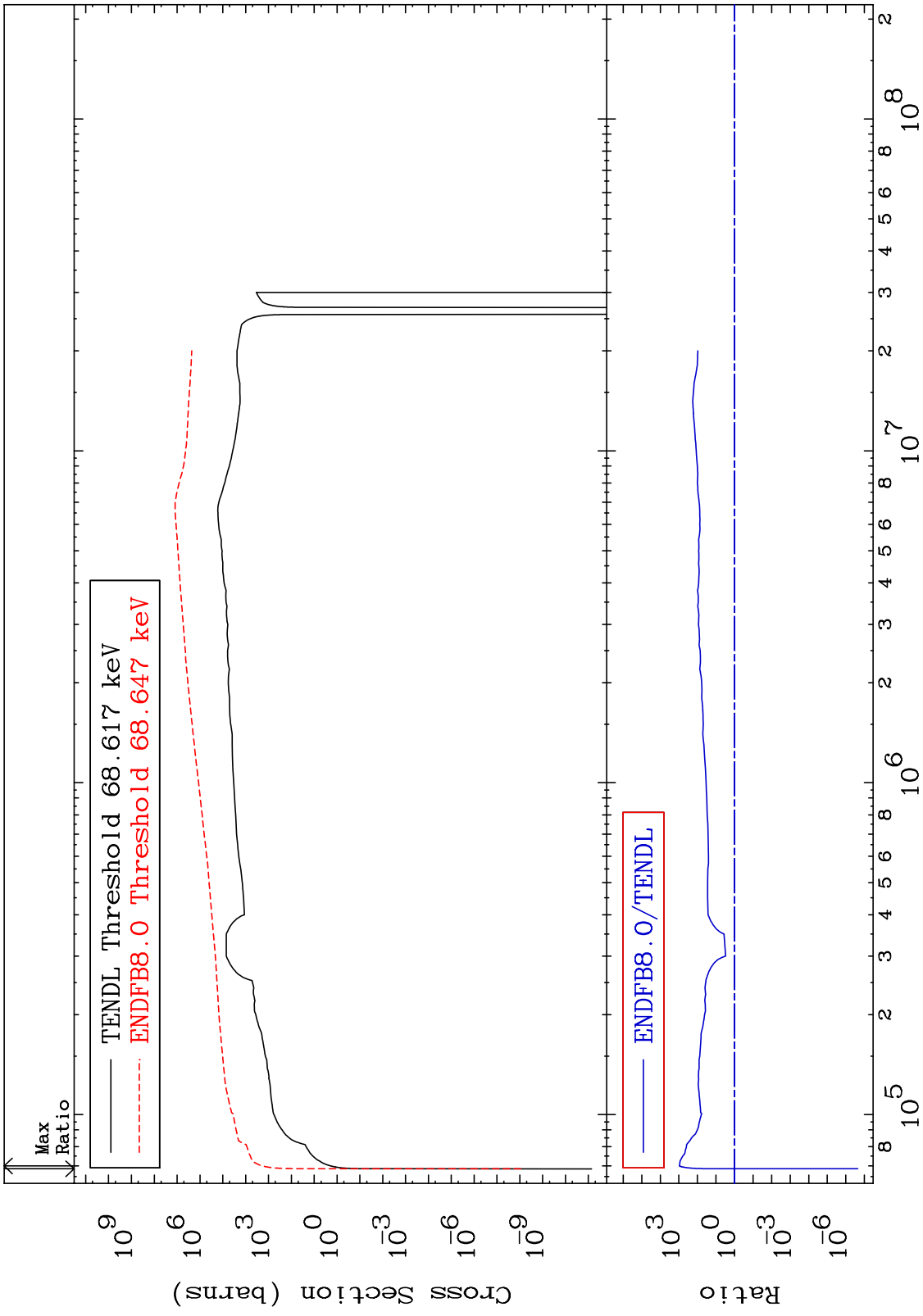
63-Eu-154
-99.39 To 2399. %



MAT 6334 Kerma non-elastic (all but mt2) 63-Eu-154
 Cross Section 982.9 To 9999. %



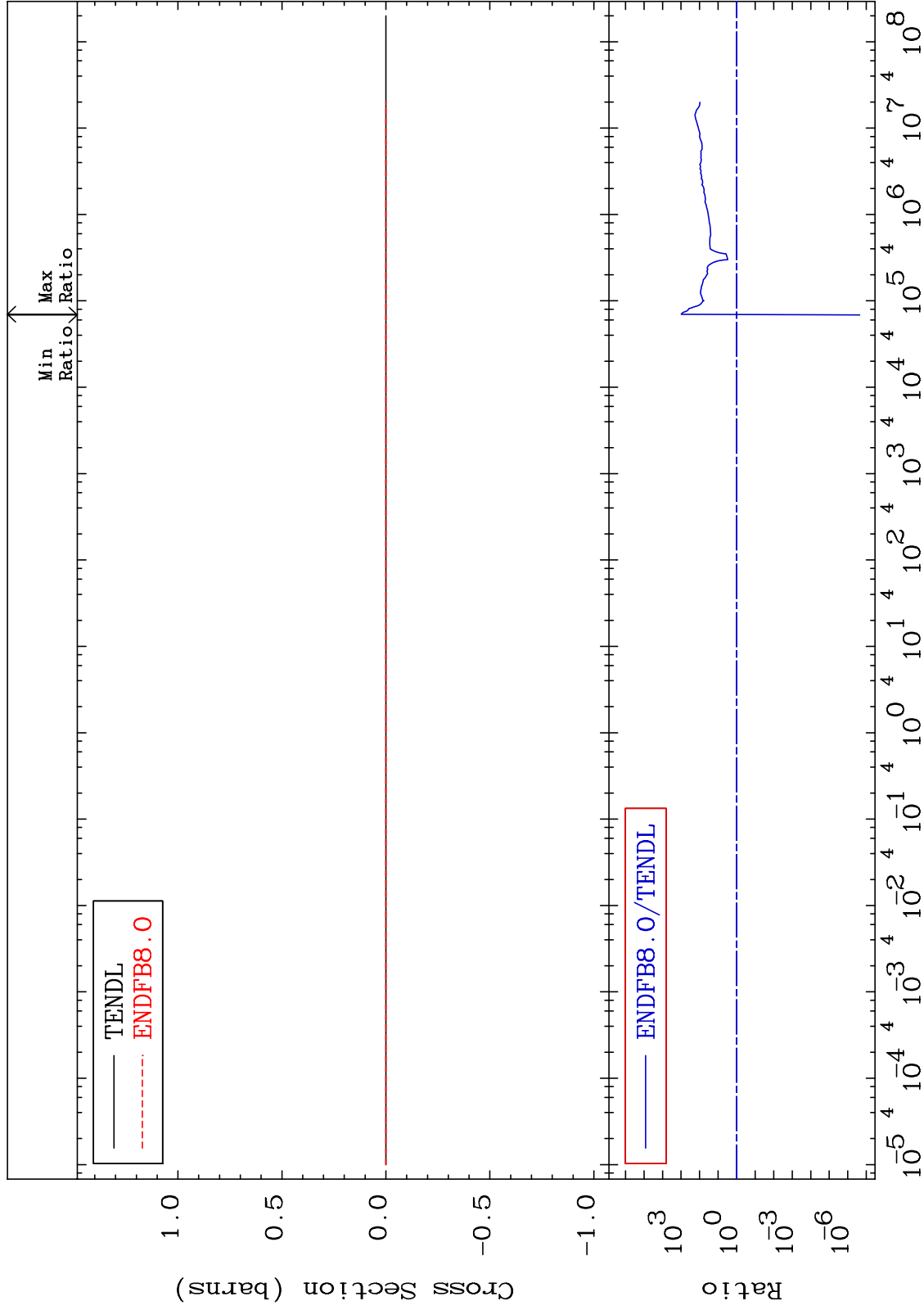
MAT 6334 Kerma inelastic (mt51-91) 63-Eu-154
 -100.0 To 9999. %
 Cross Section



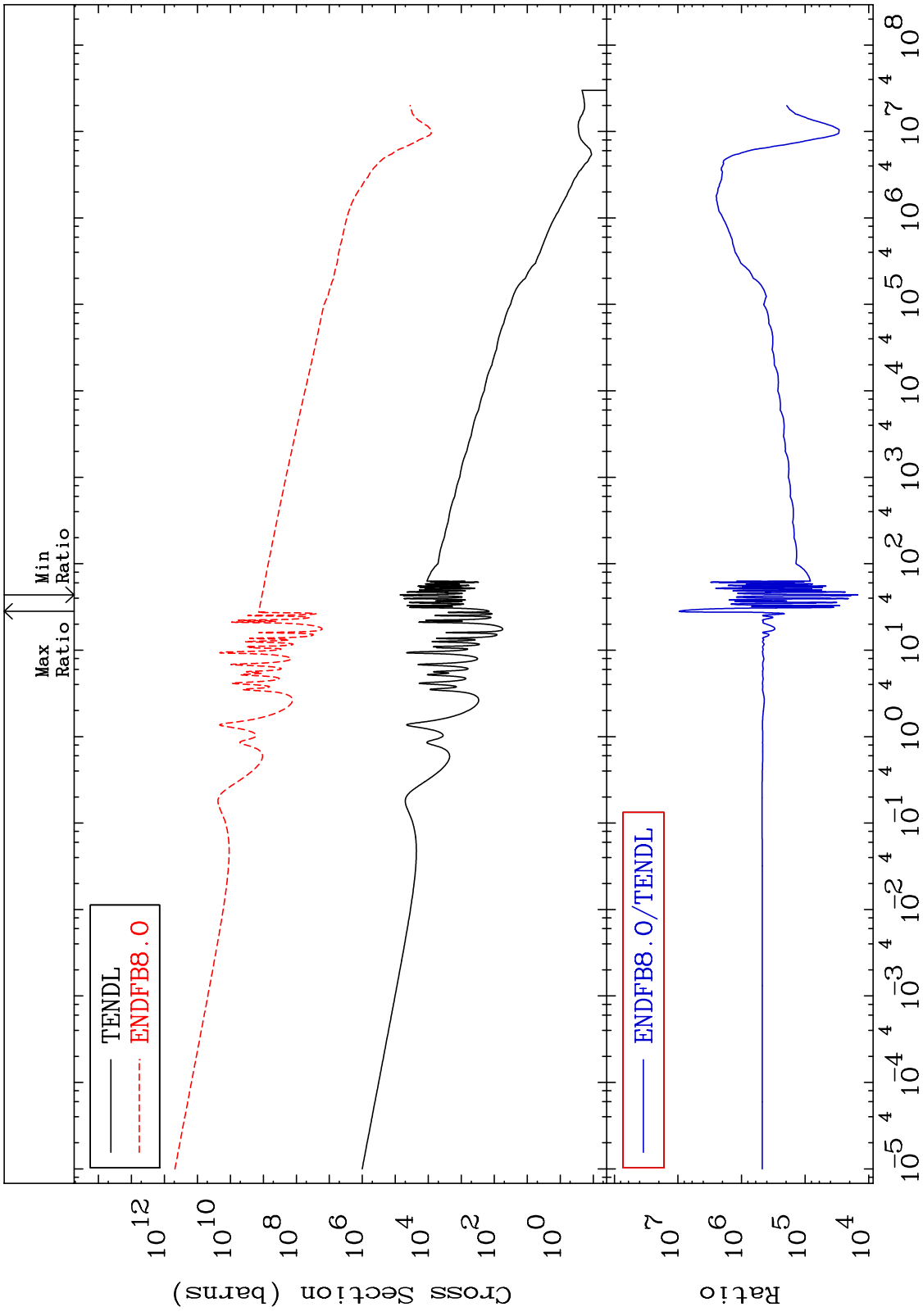
MAT 6334

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

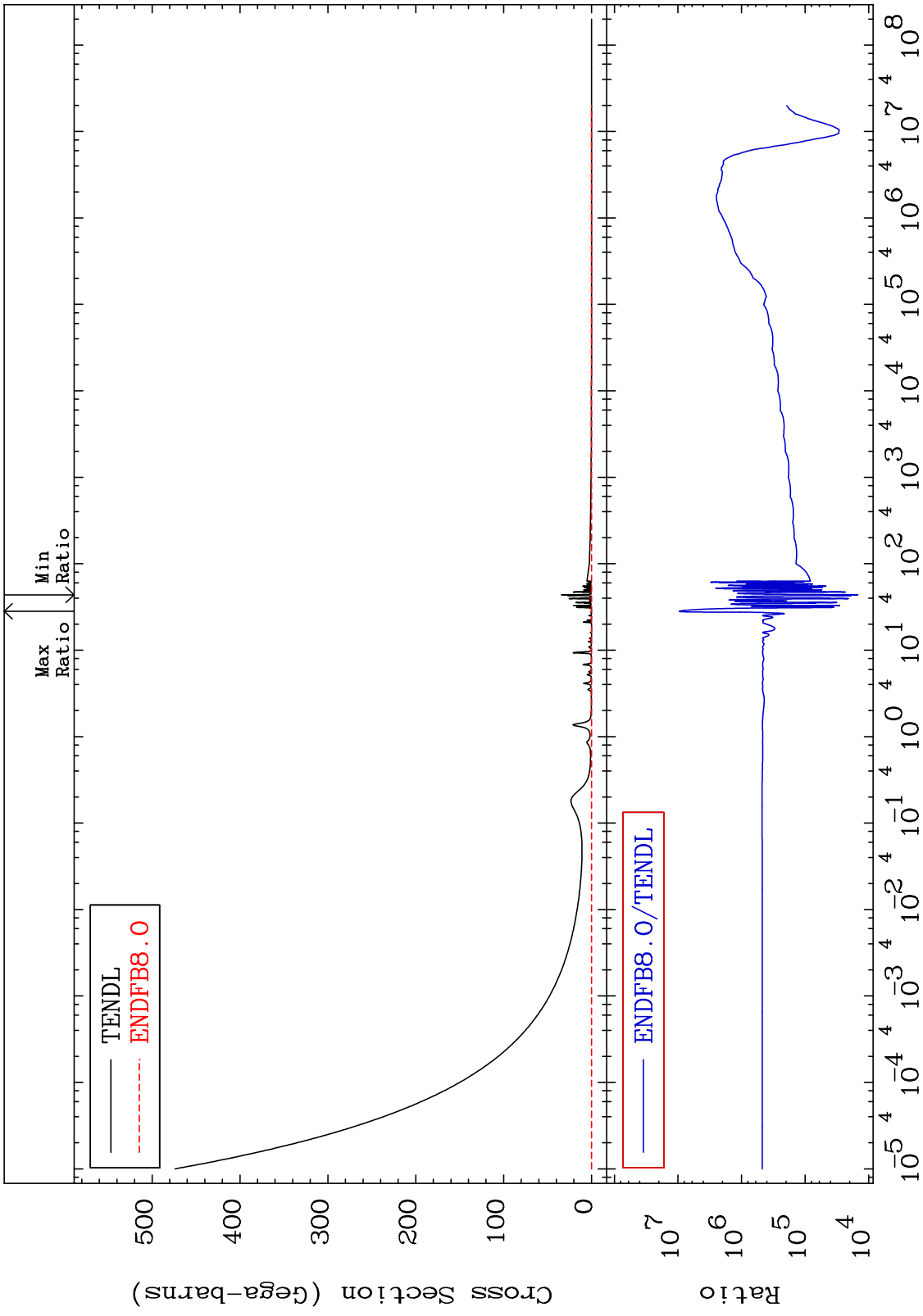
63-Eu-154
-100.0 To 9999. %



MAT 6334 Kerma capture (mt102) 63-Eu-154
 Cross Section 9999. To 9999. %

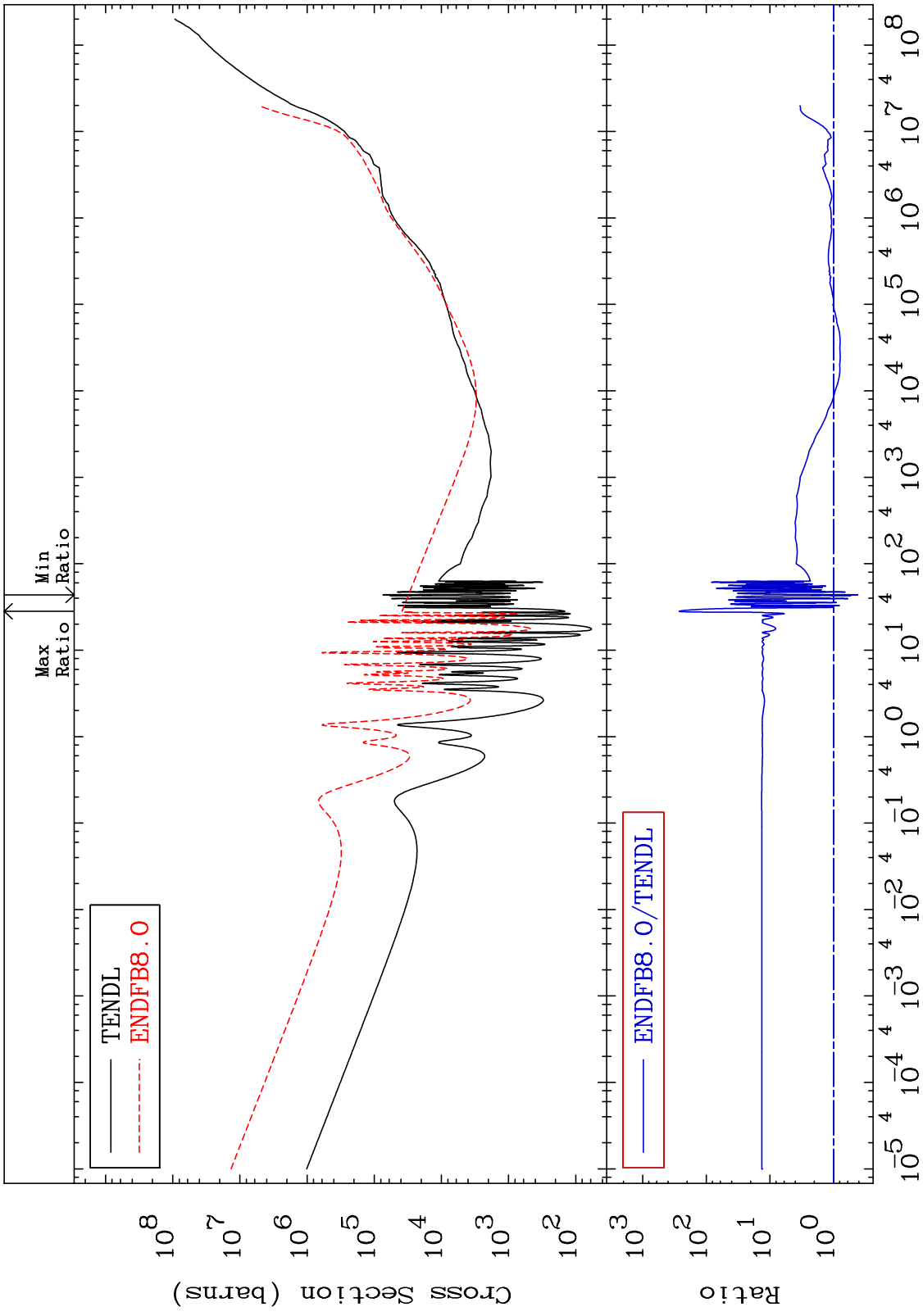


MAT 6334 63-Eu-154
 Total photon (eV-barns) 9999. To 9999. %
 Cross Section

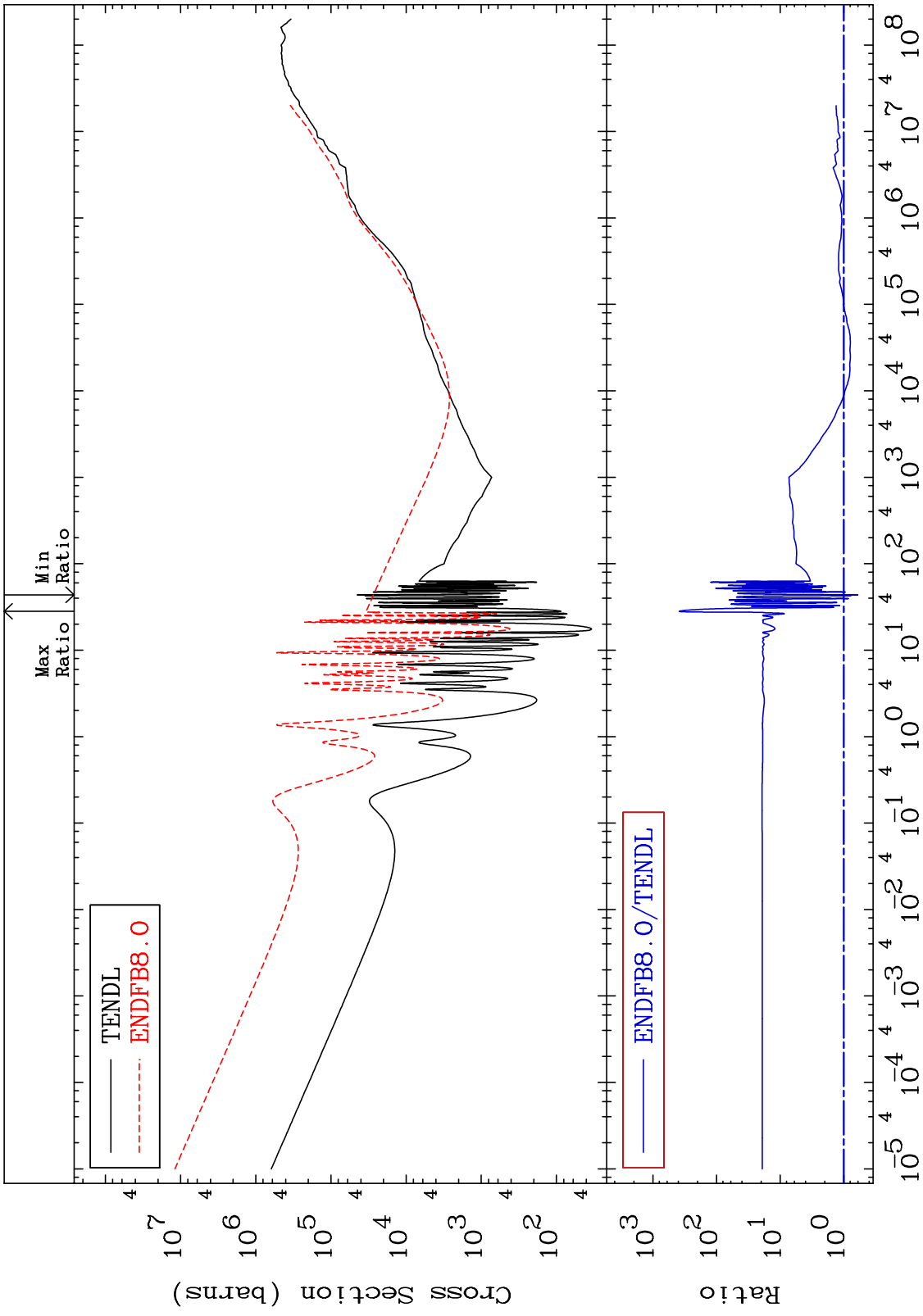


Incident Energy (eV) 63-Eu-154

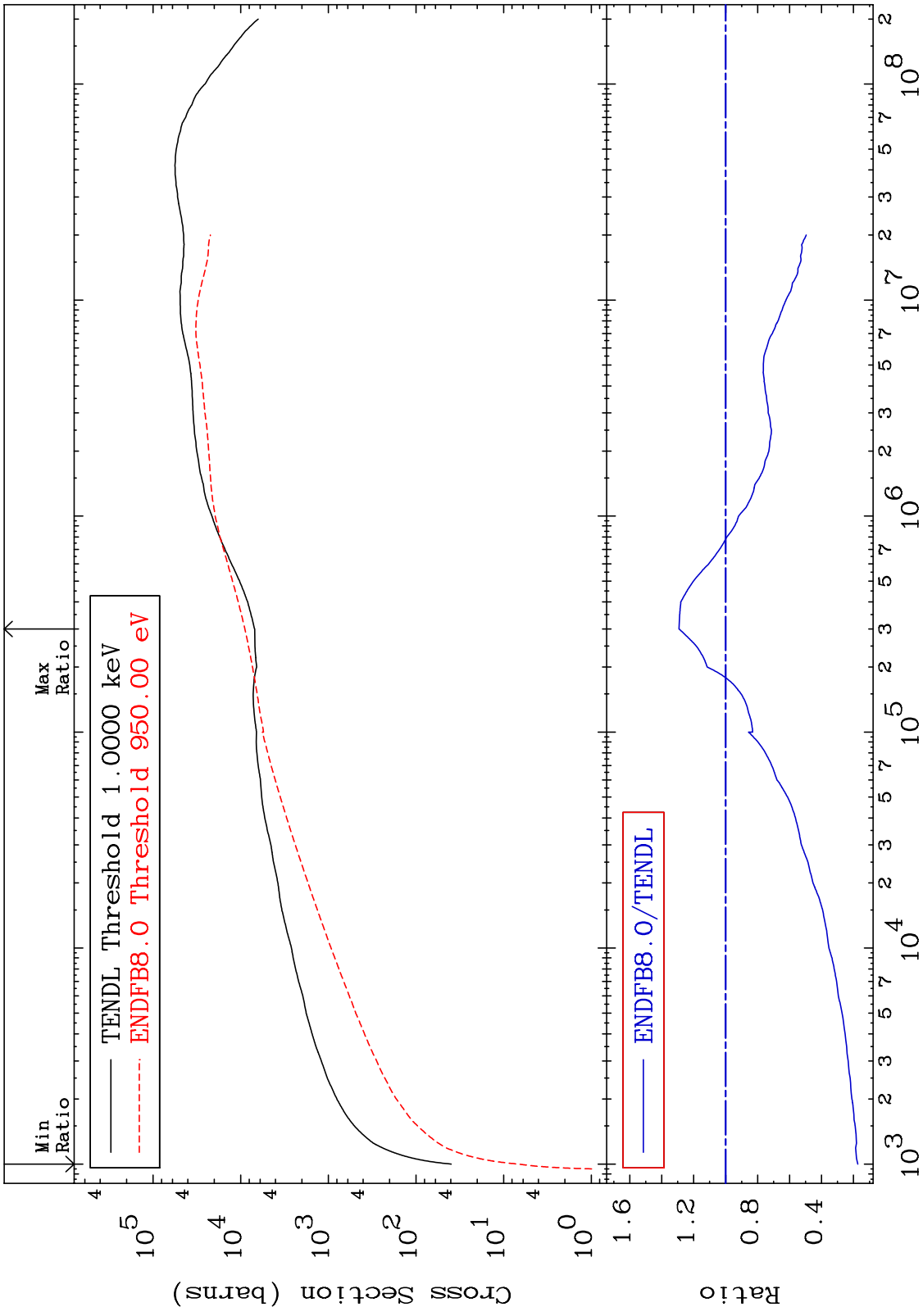
MAT 6334 Total kinematic kerma (high limit) 63-Eu-154
 Cross Section -58.50 To 9999. %



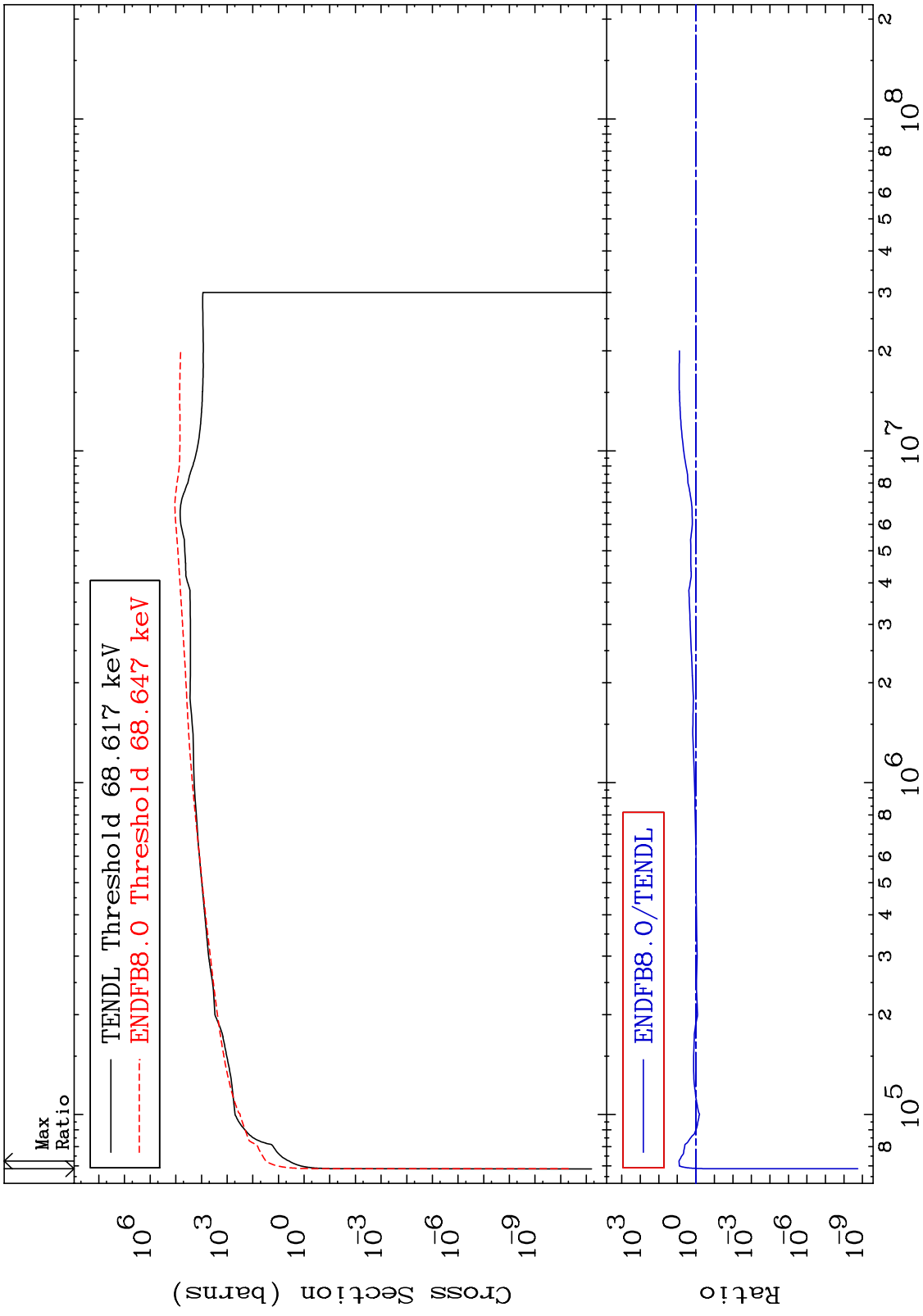
MAT 6334 Dpa total (eV-barns) 63-Eu-154
 Cross Section -39.70 To 9999. %



MAT 6334 63-Eu-154
 Dpa elastic (mt2) -82.70 To 29.17 %
 Cross Section



MAT 6334 Dpa inelastic (mt51-91) 63-Eu-154
 Cross Section -100.0 To 707.4 %



MAT 6334 Dpa disappearance (mt102 -120) 63-Eu-154
 Cross Section -39.70 To 9999. %

