

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

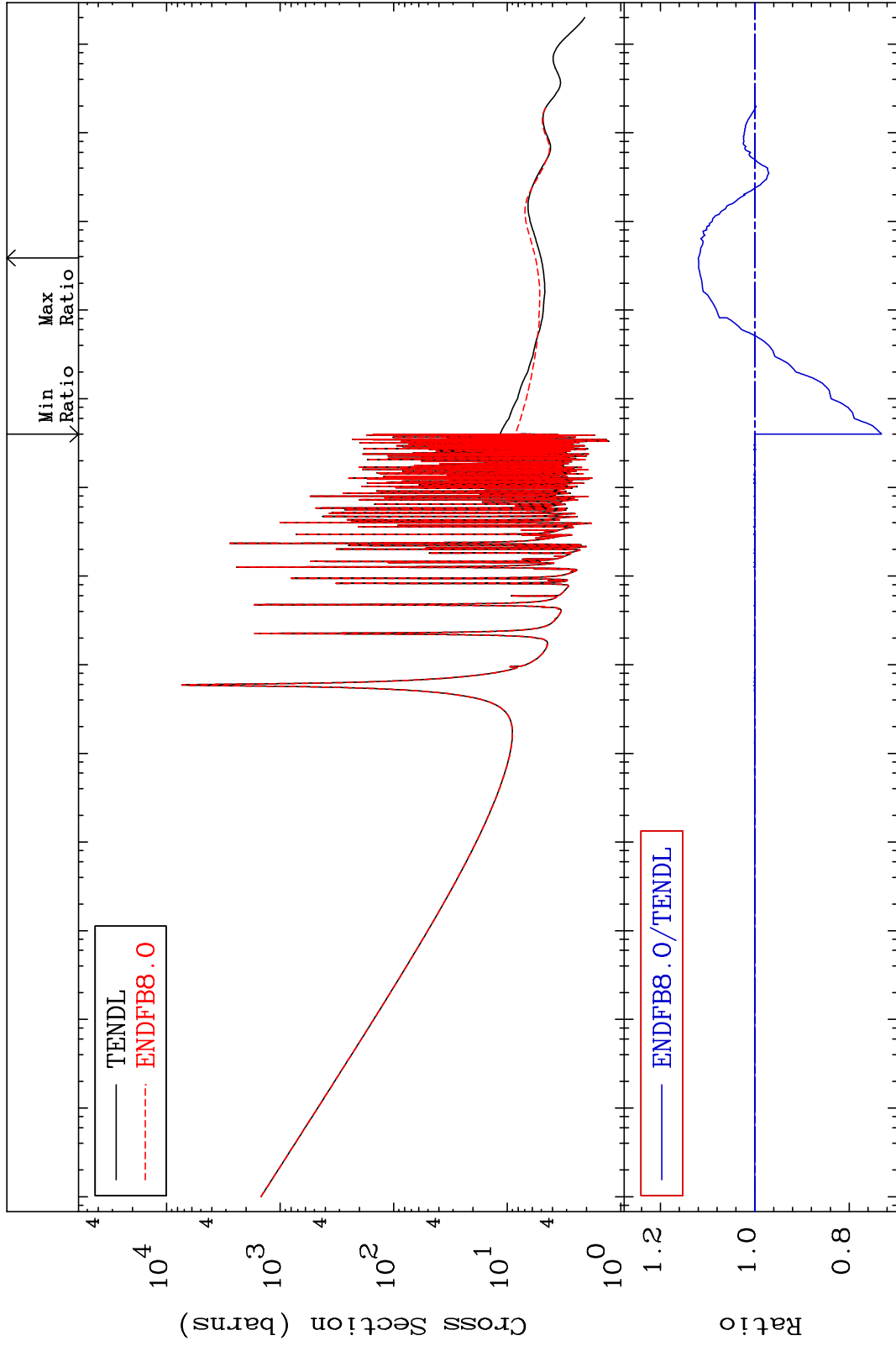
MAT 5525

Total

55-Cs-133

Cross Section

-26.84 To 11.96 %



Incident Energy (eV)

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

55-Cs-133

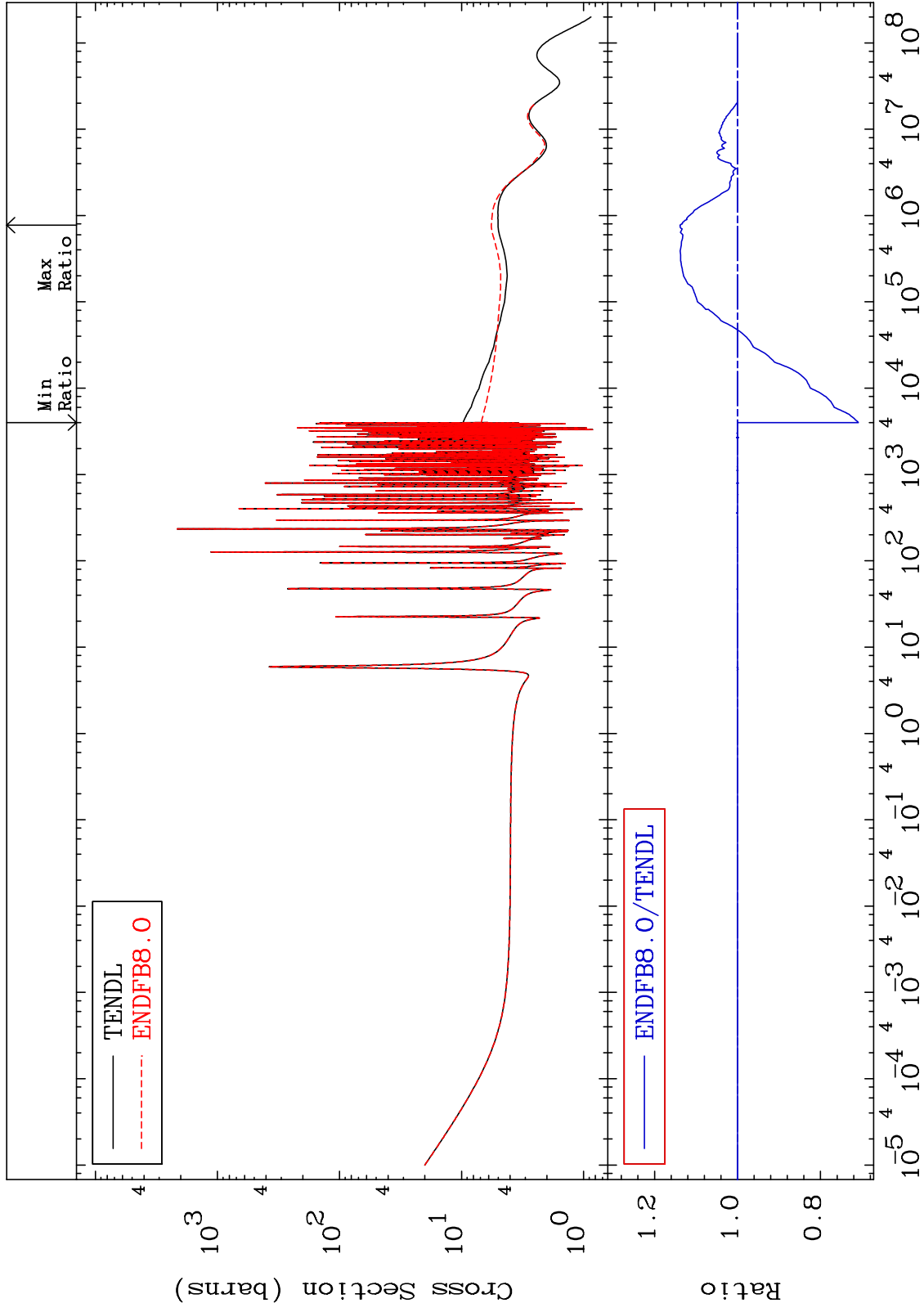
MAT 5525

Elastic

Cross Section

55-Cs-133

-29.13 To 13.86 %

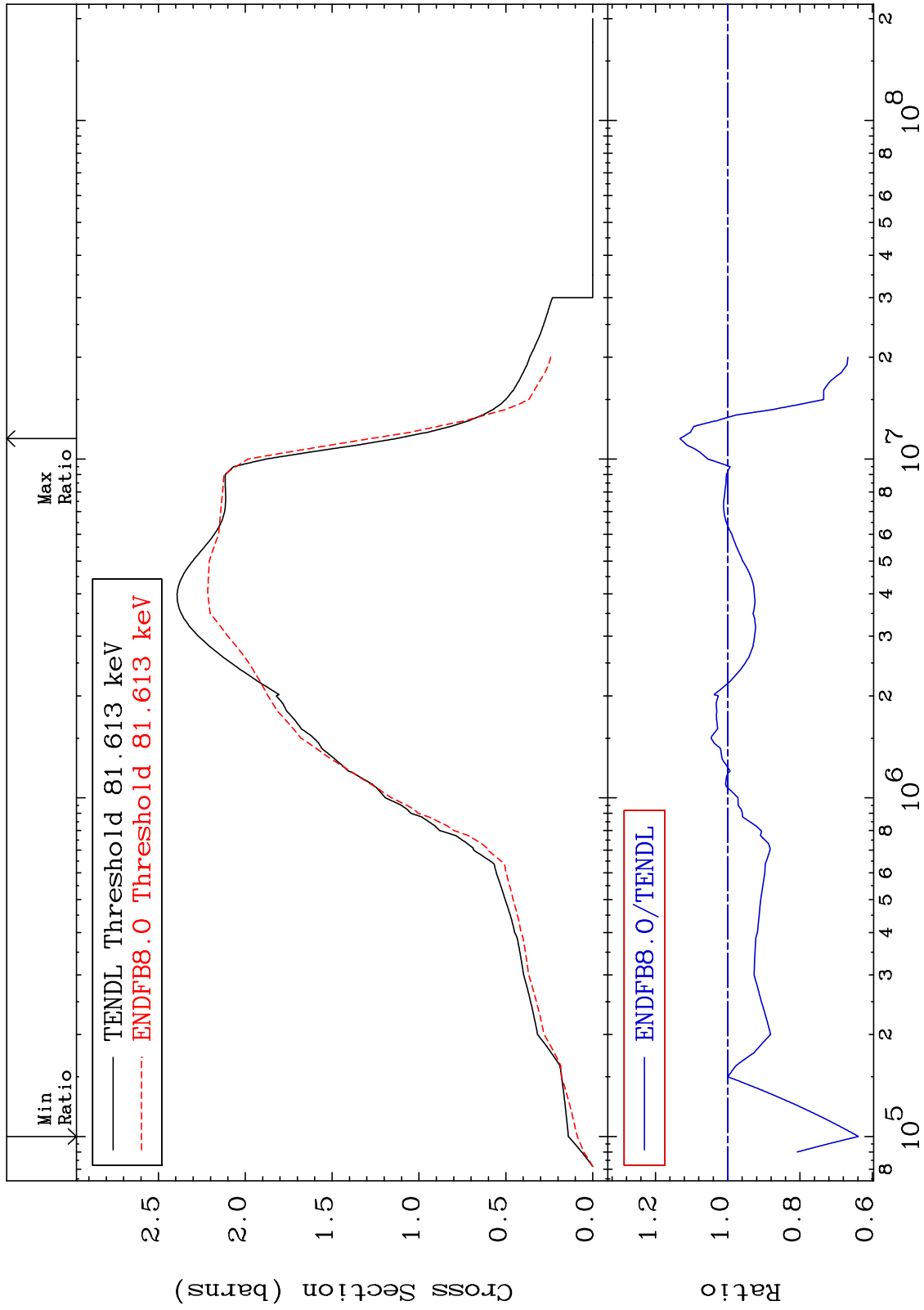


Incident Energy (eV)

55-Cs-133

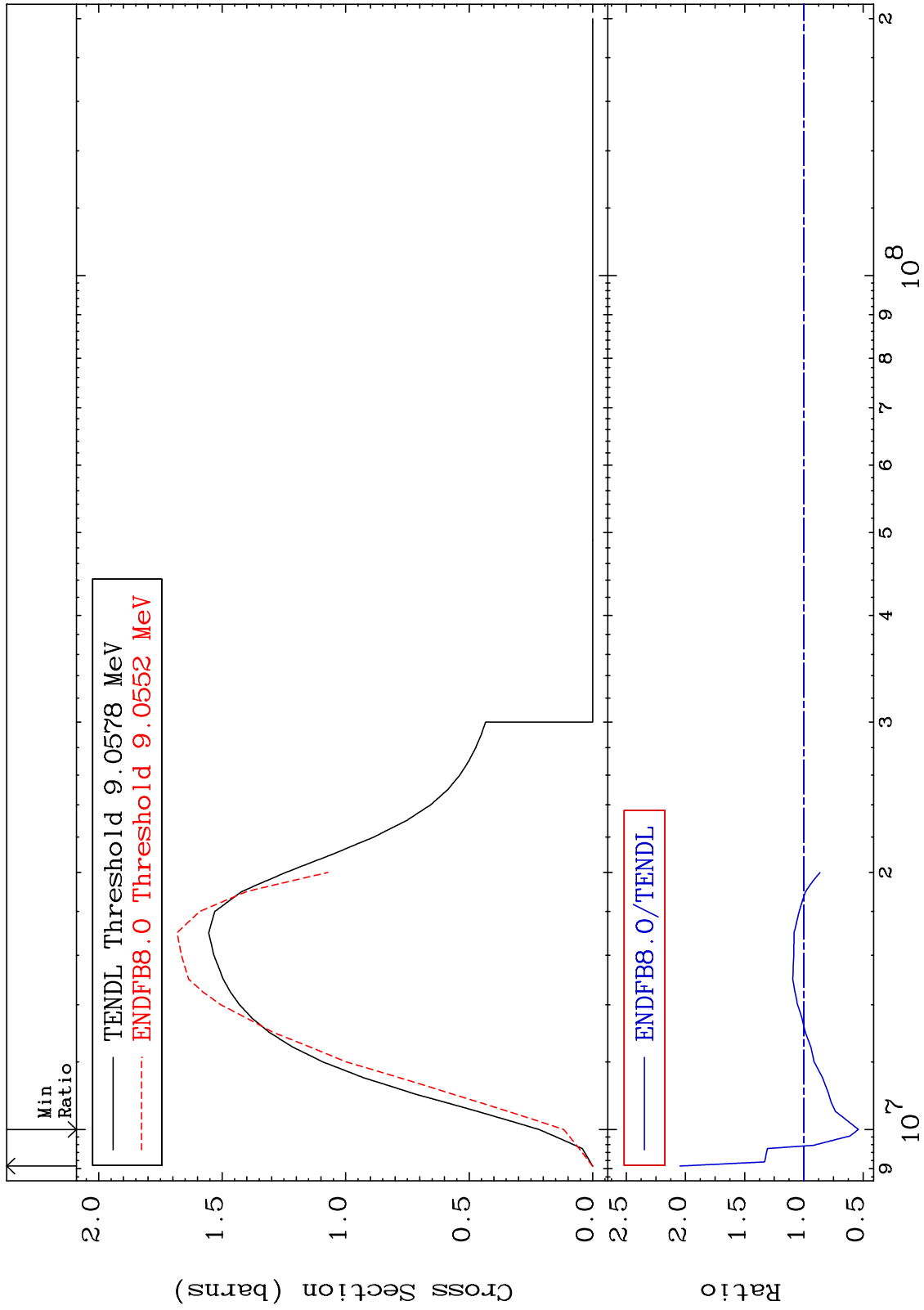
2

MAT 5525 Inelastic Cross Section 55-Cs-133 -36.16 To 13.19 %



3 Incident Energy (eV) 55-Cs-133

MAT 5525 (n,2n) Cross Section 55-Cs-133 -46.07 To 104.6 %



4 55-Cs-133

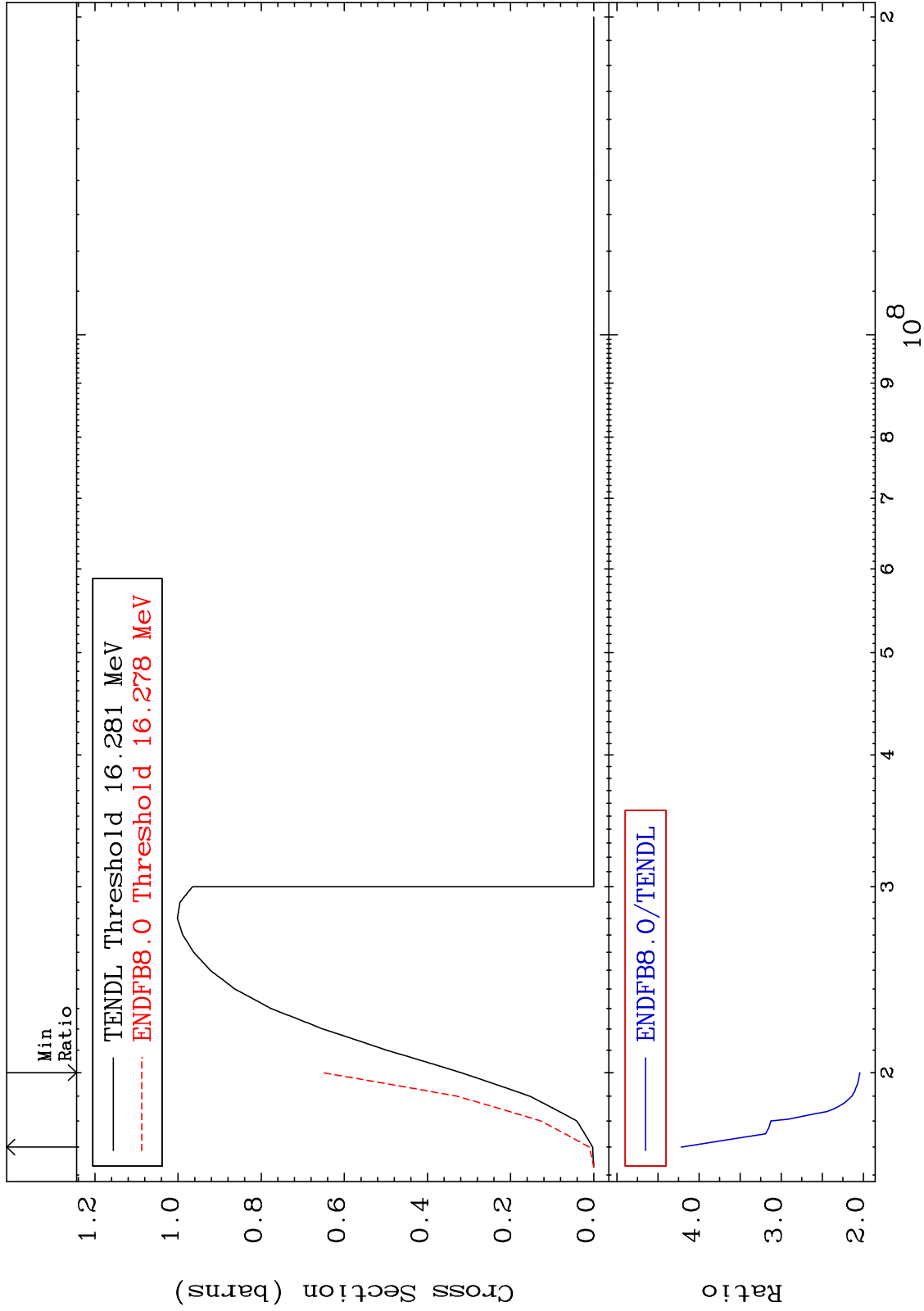
MAT 5525

(n,3n)

55-Cs-133

Cross Section

104.2 To 321.8 %



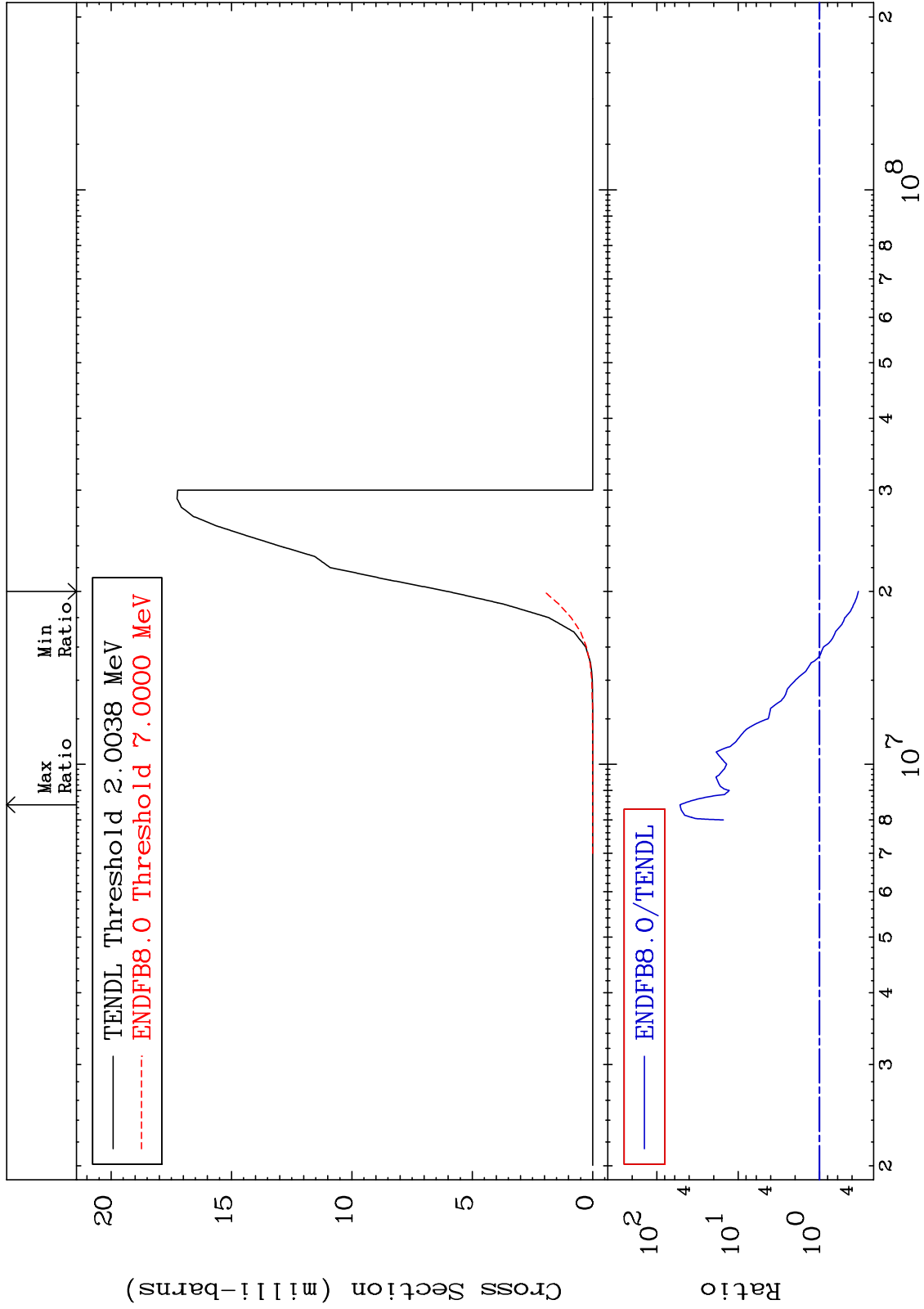
MAT 5525

(n,n') α

55-Cs-133

-66.59 To 5077. %

Cross Section



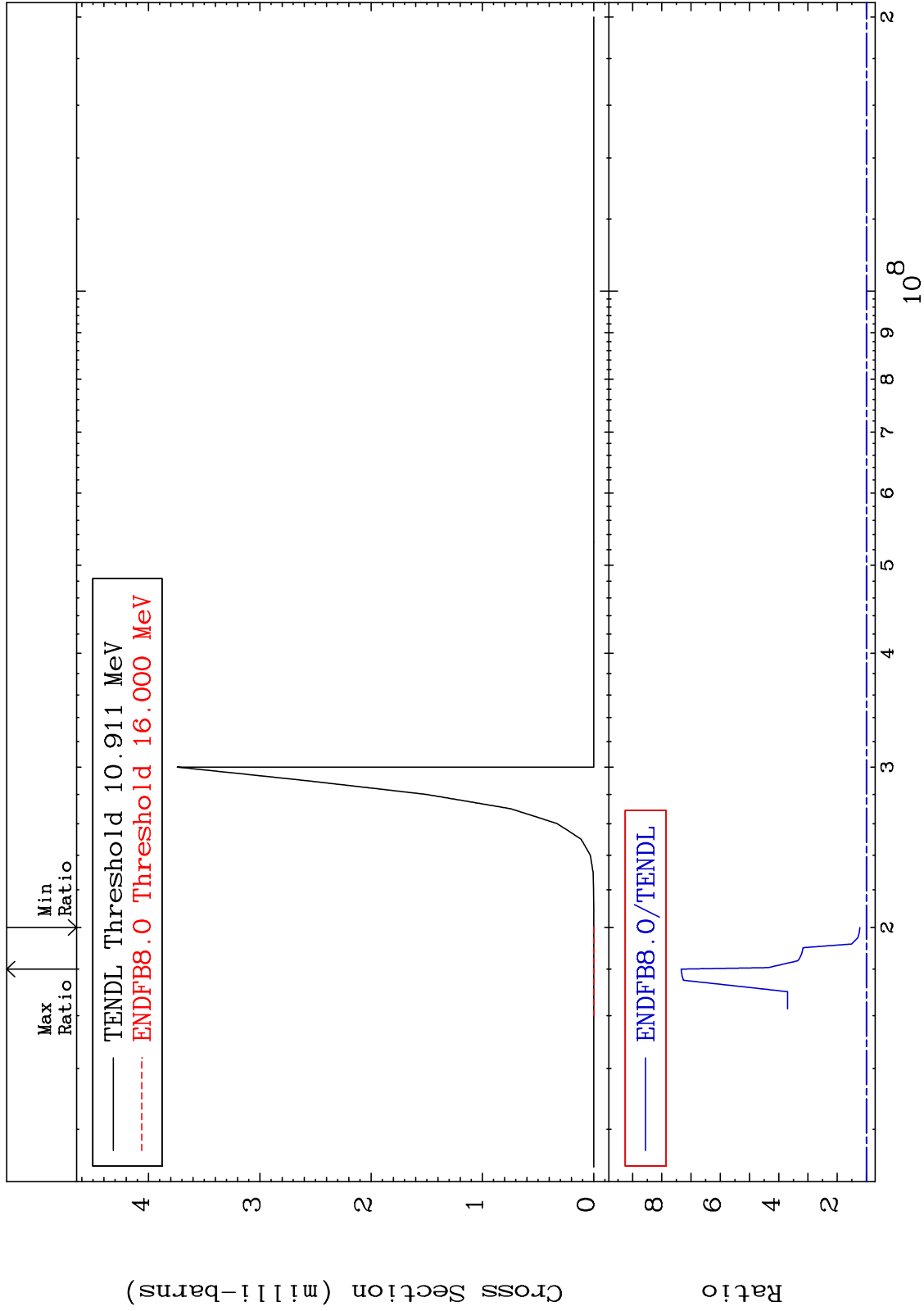
MAT 5525

(n,2n) α

55-Cs-133

Cross Section

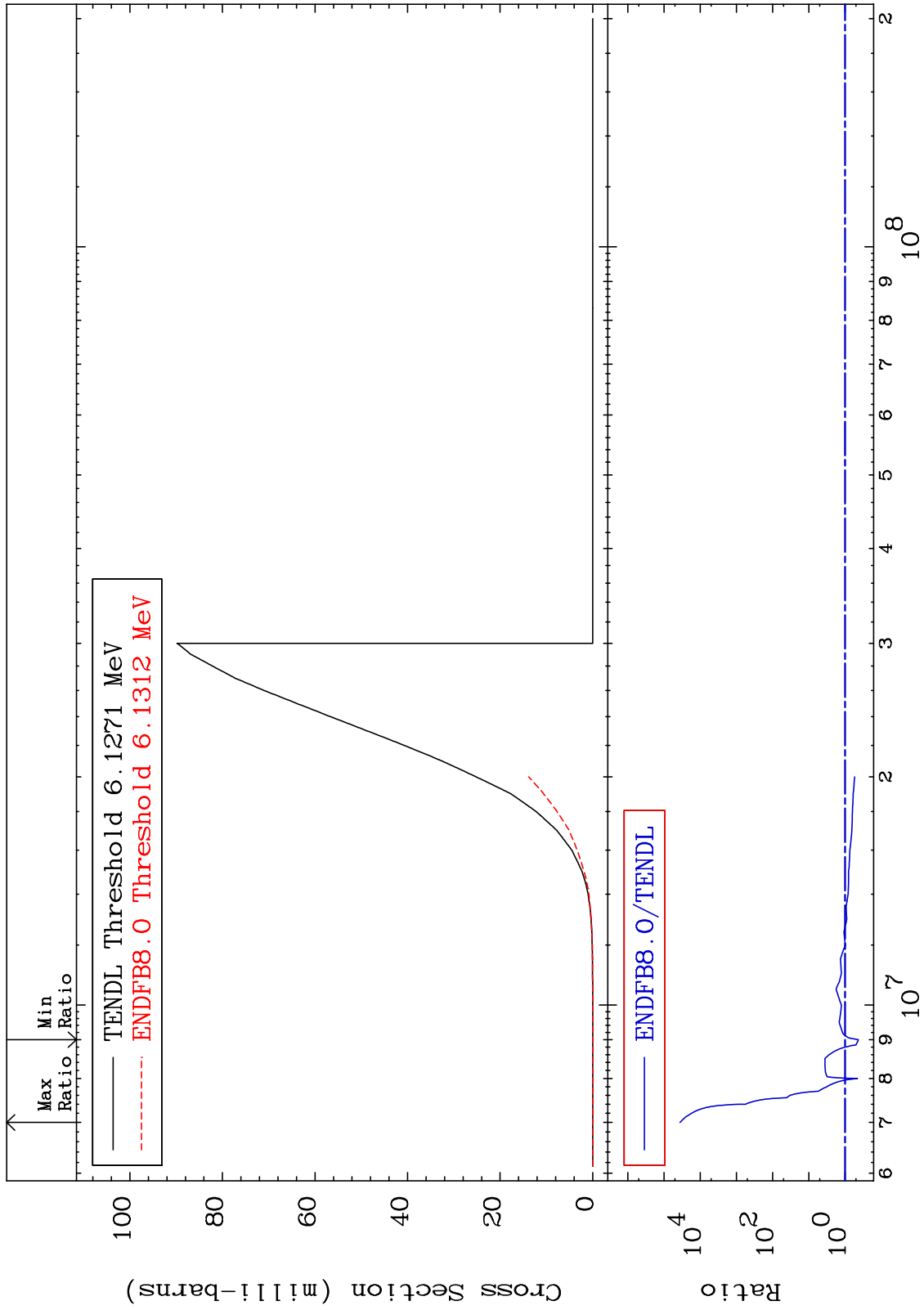
22.26 To 633.6 %



MAT 5525

(n,n') p
Cross Section

55-Cs-133
-57.01 To 9999. %



8

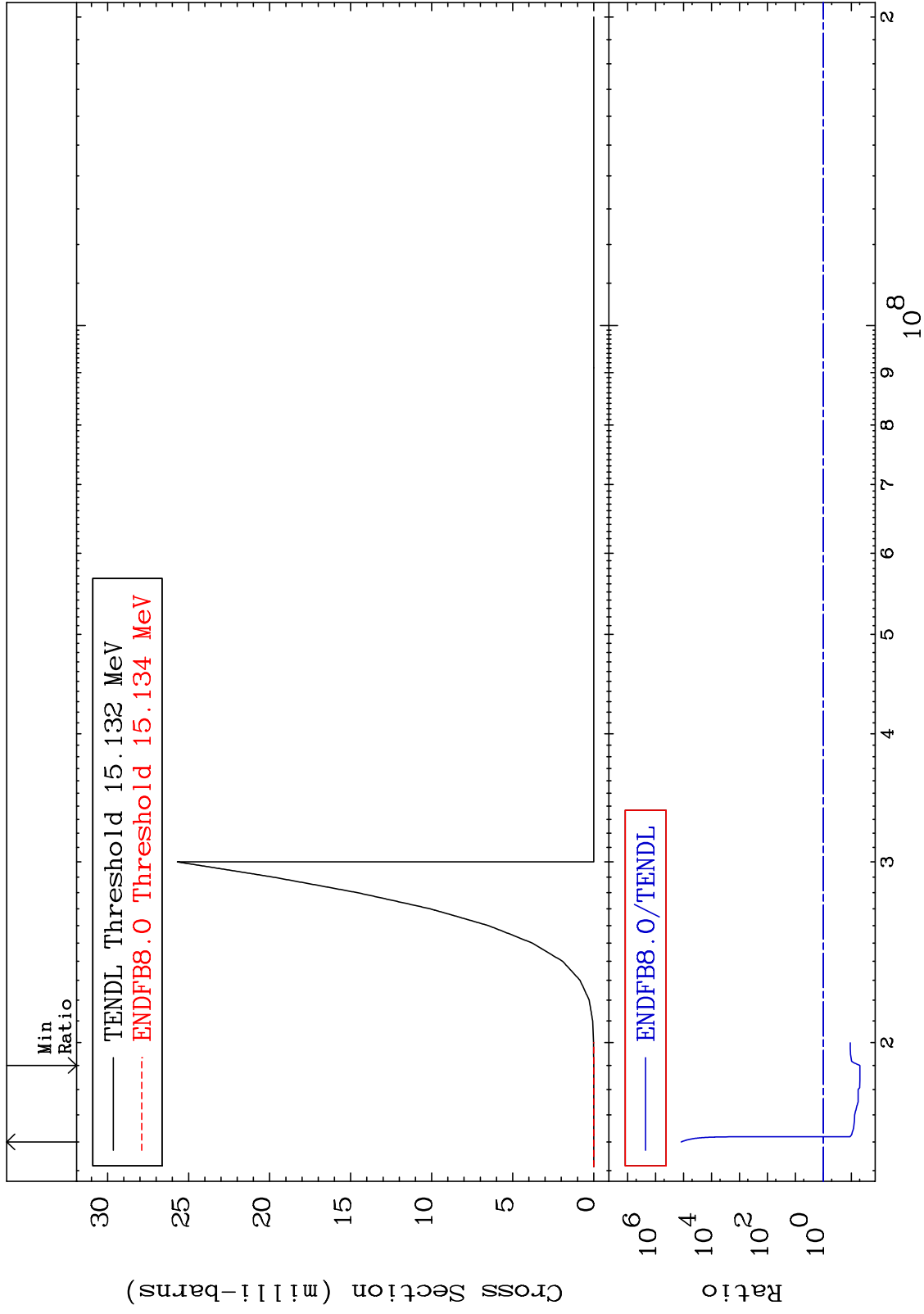
Incident Energy (eV)

55-Cs-133

MAT 5525

(n,2n) p
Cross Section

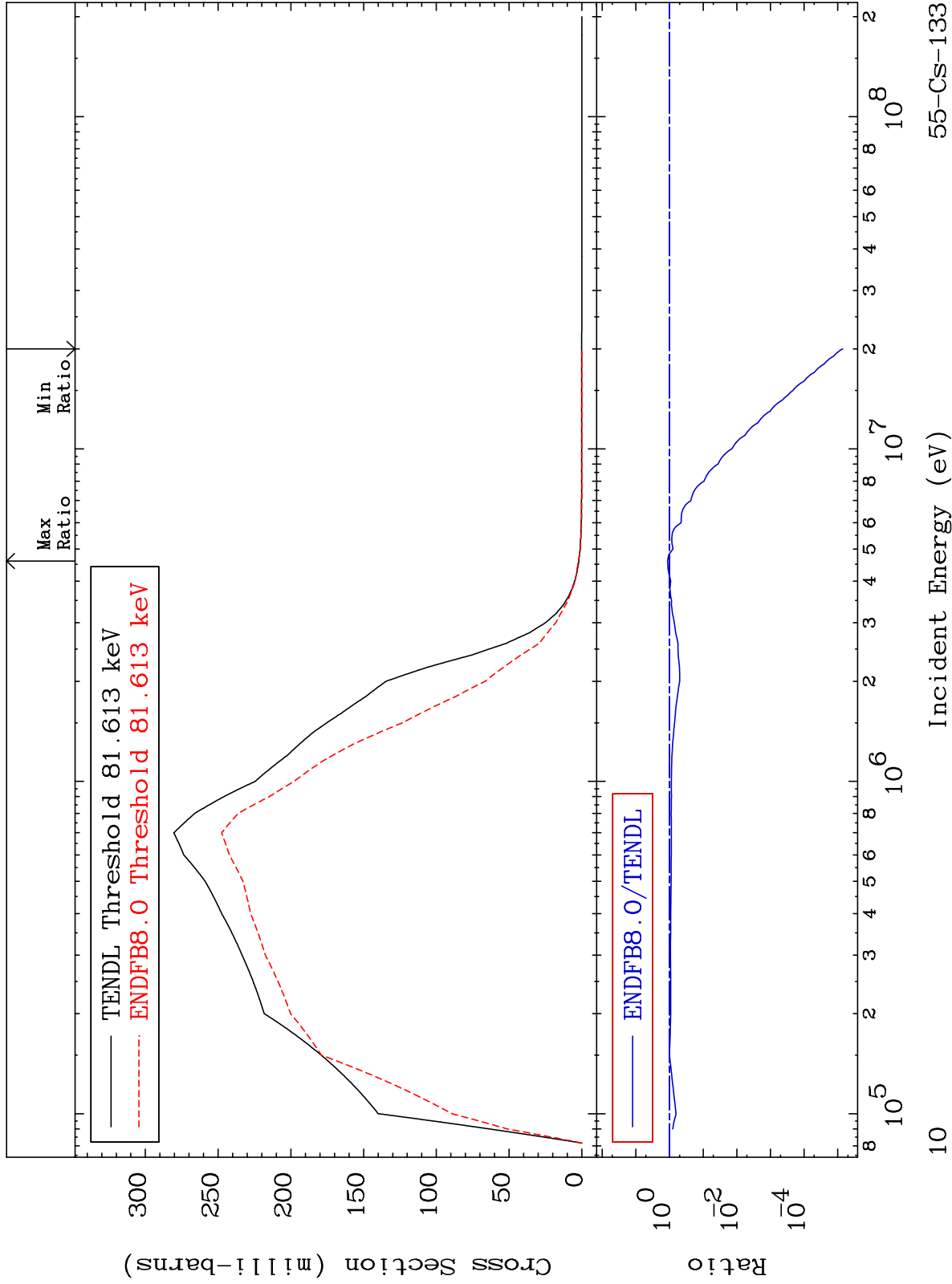
55-Cs-133
-95.10 To 9999. %



MAT 5525

MT= 51 (n,n') Level
Cross Section

55-Cs-133
-100.0 To 14.14 %

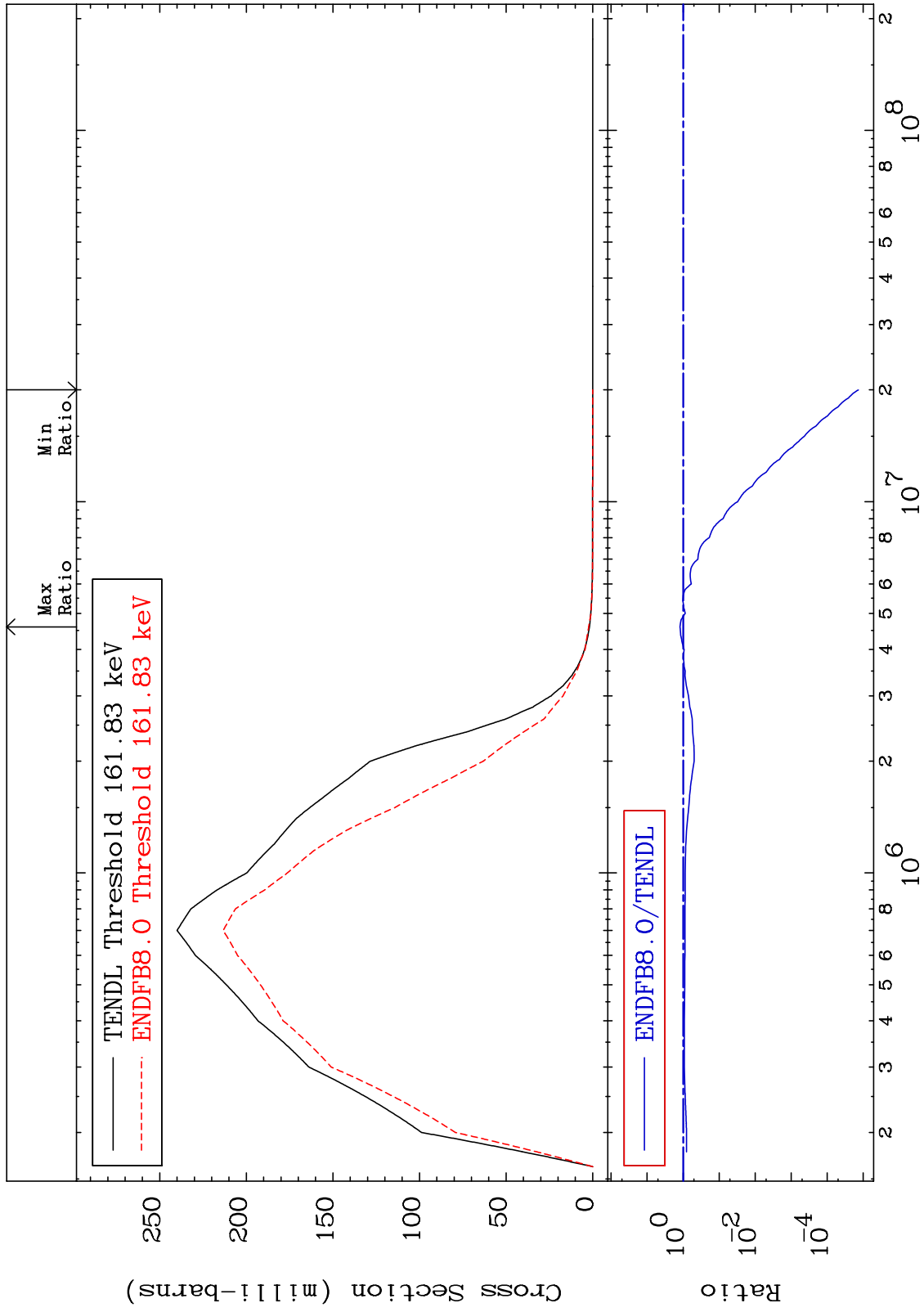


55-Cs-133

MAT 5525

MT= 52 (n,n') Level
Cross Section

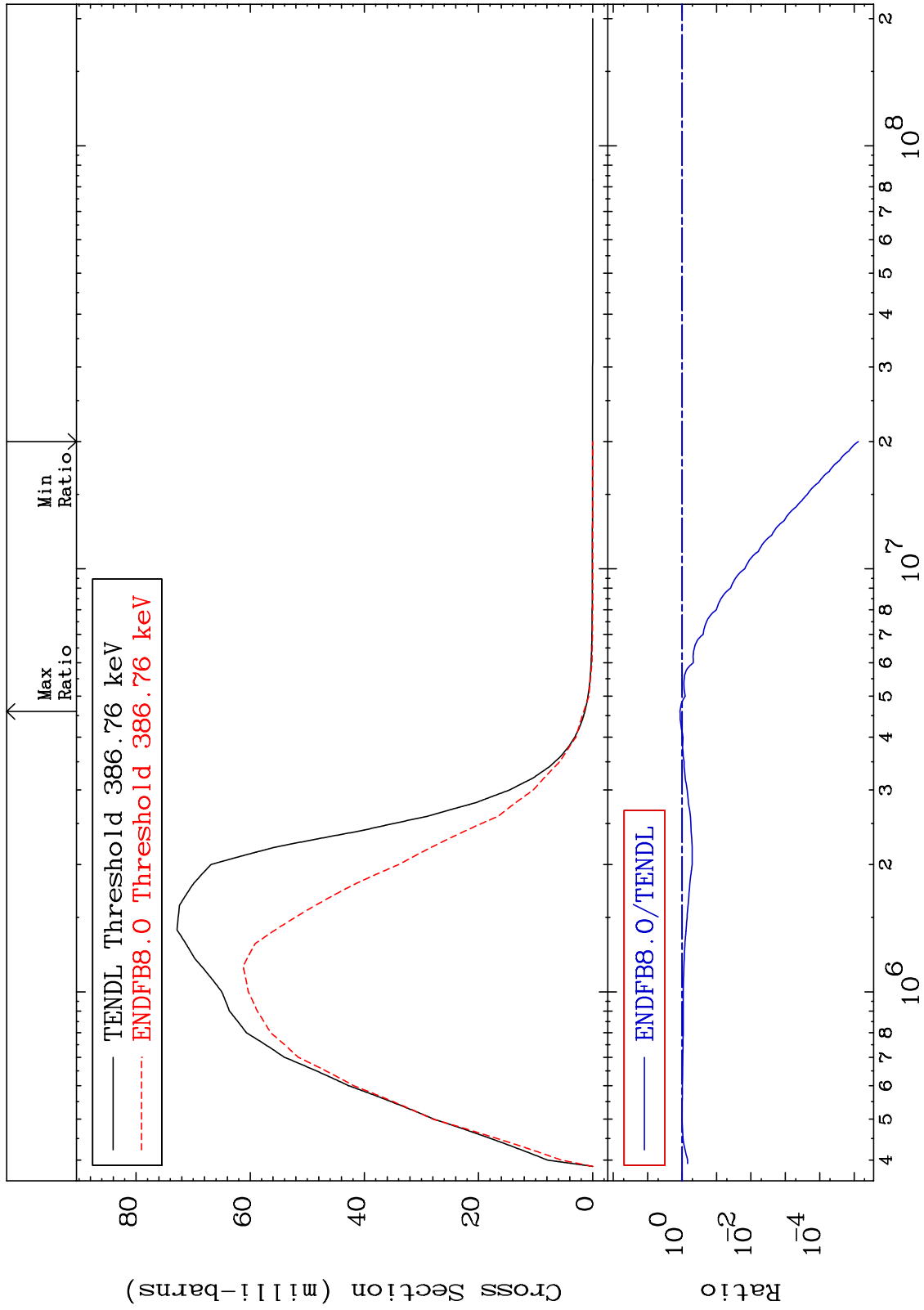
55-Cs-133
-100.0 To 21.88 %



MAT 5525

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

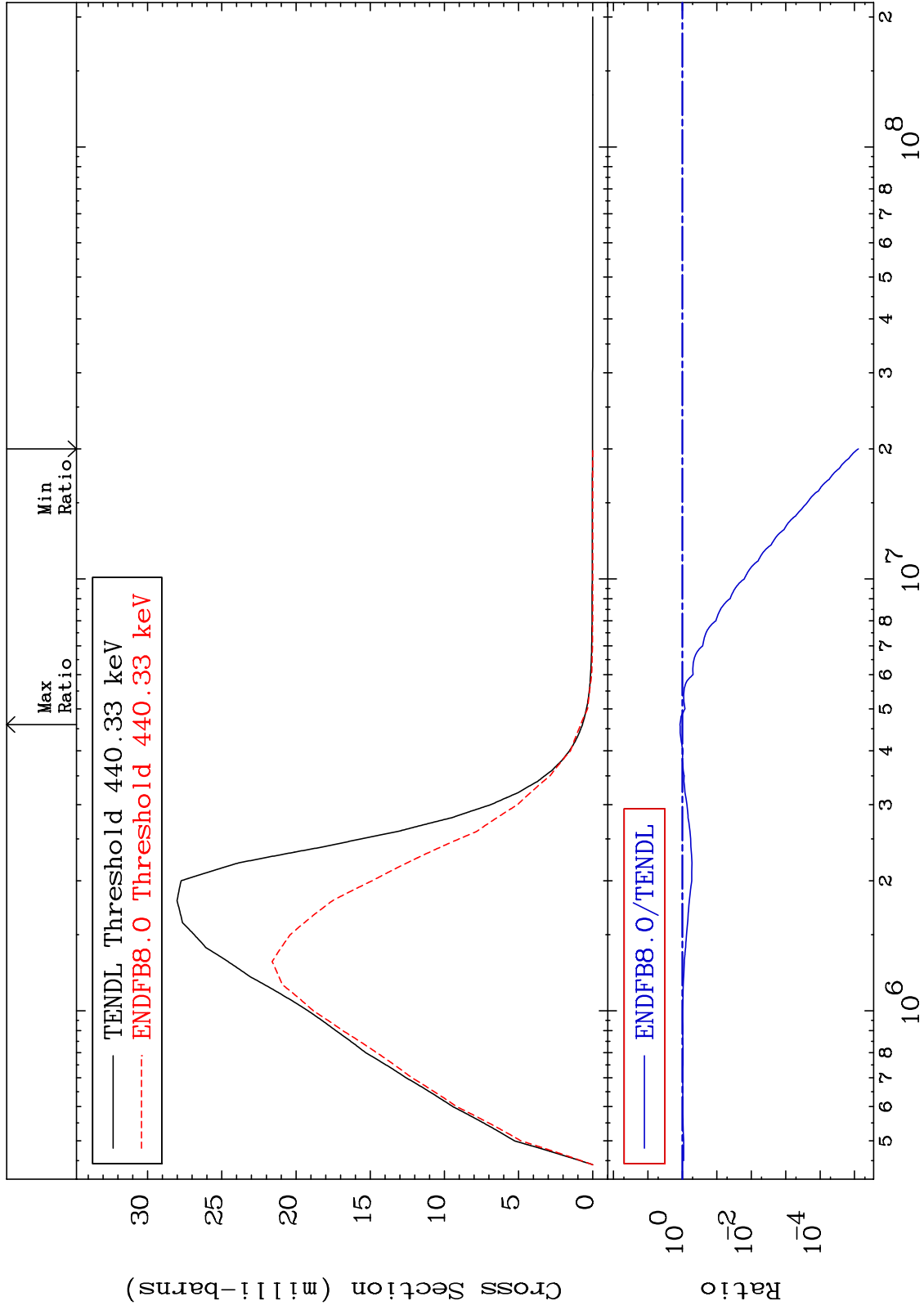
55-Cs-133
-100.0 To 14.86 %



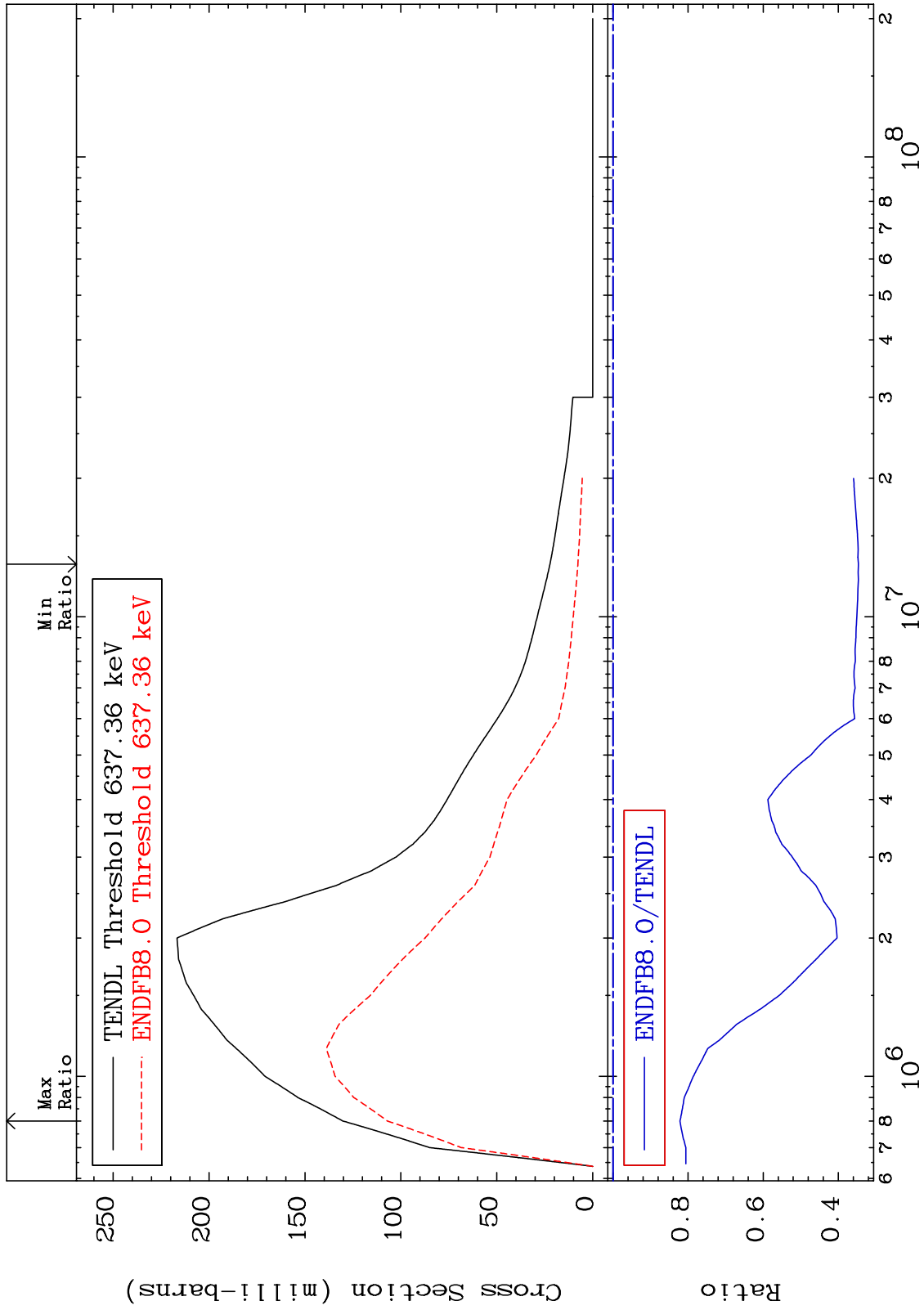
MAT 5525

MT= 54 (n,n') Level
Cross Section

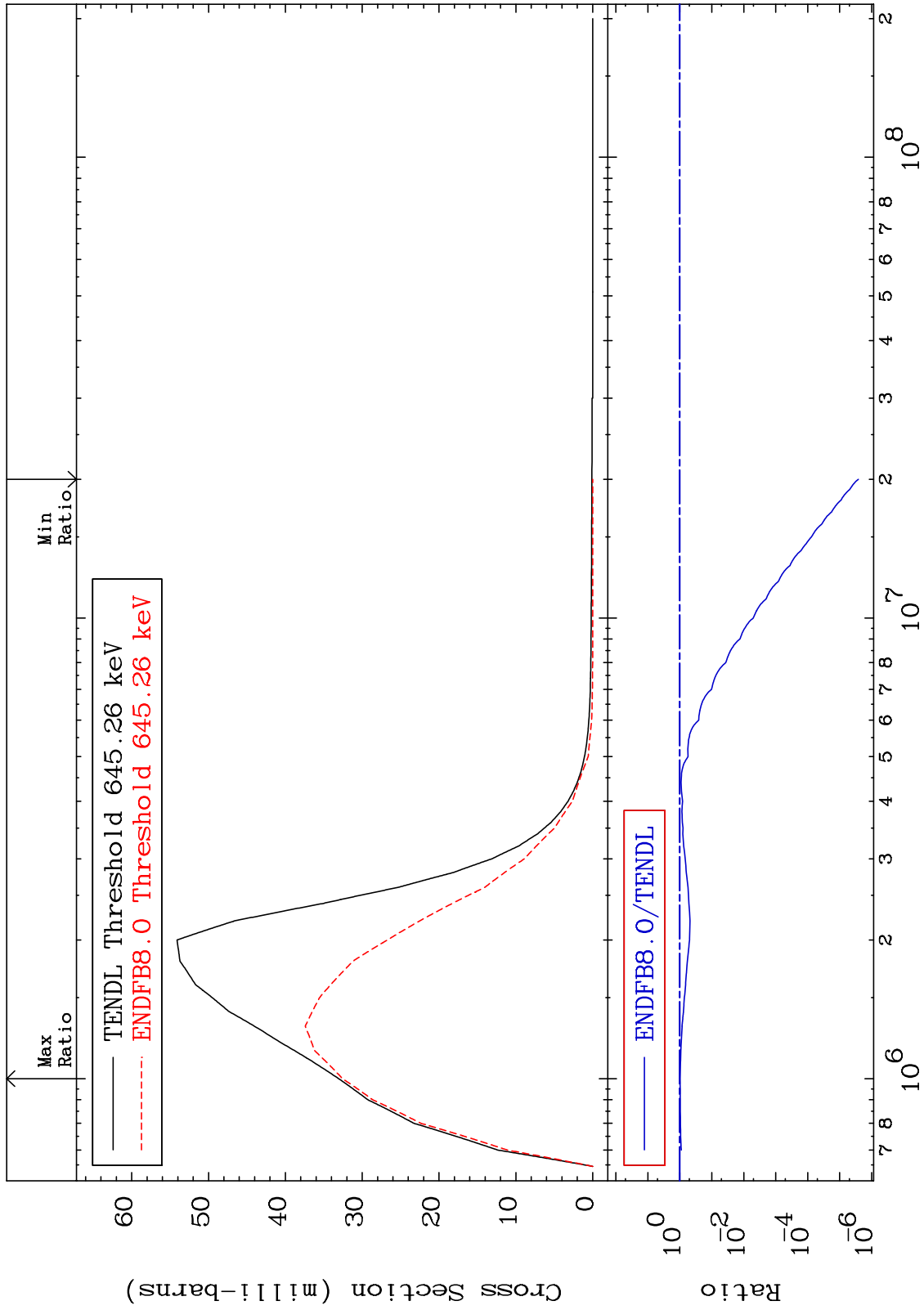
55-Cs-133
-100.0 To 16.57 %



MAT 5525 MT= 55 (n,n') Level Cross Section 55-Cs-133 -65.36 To -17.85%



MAT 5525 MT= 56 (n,n') Level Cross Section 55-Cs-133 -100.0 To -1.531%

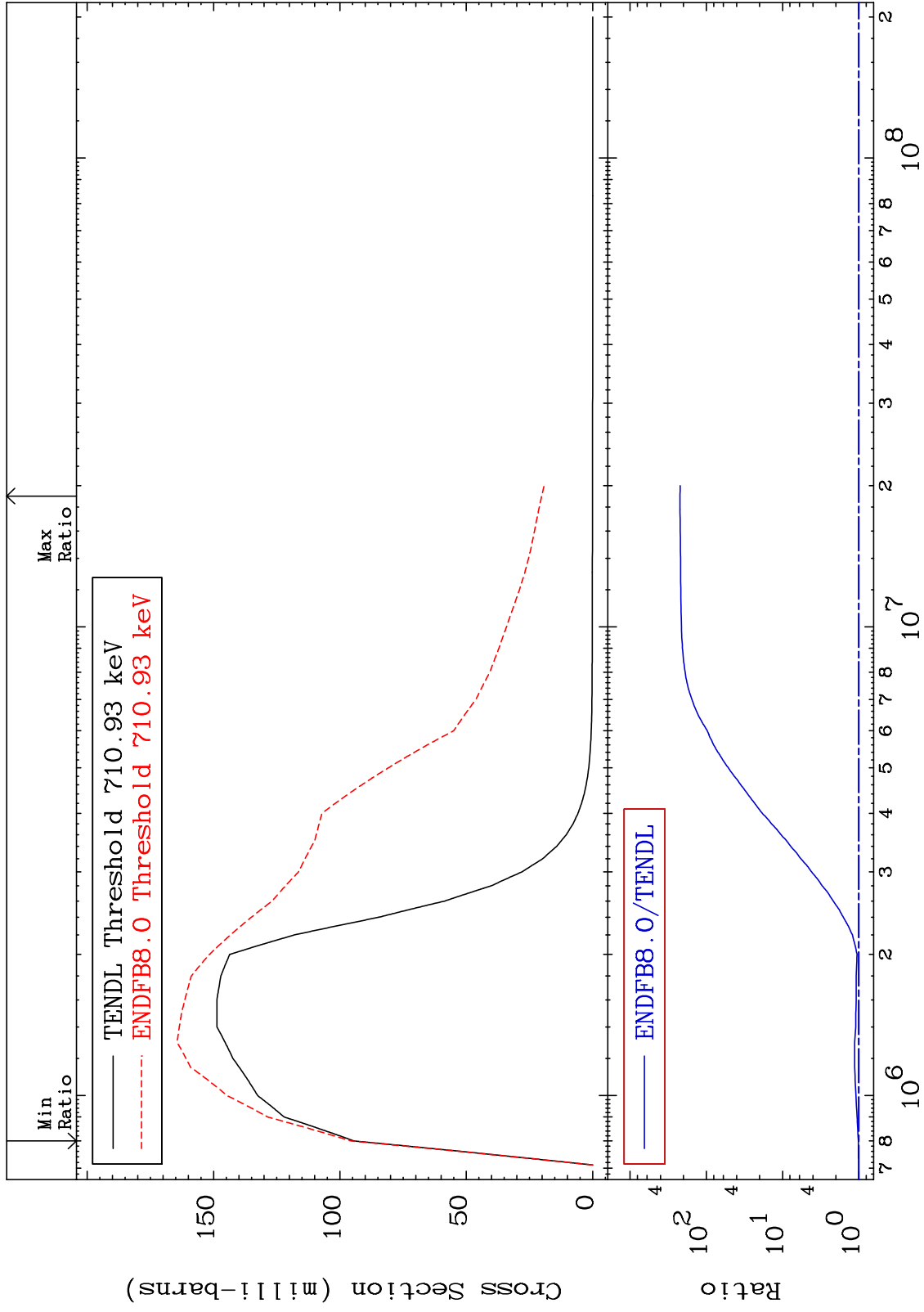


15 Incident Energy (eV) 55-Cs-133

MAT 5525

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

55-Cs-133
1.239 To 9999. %

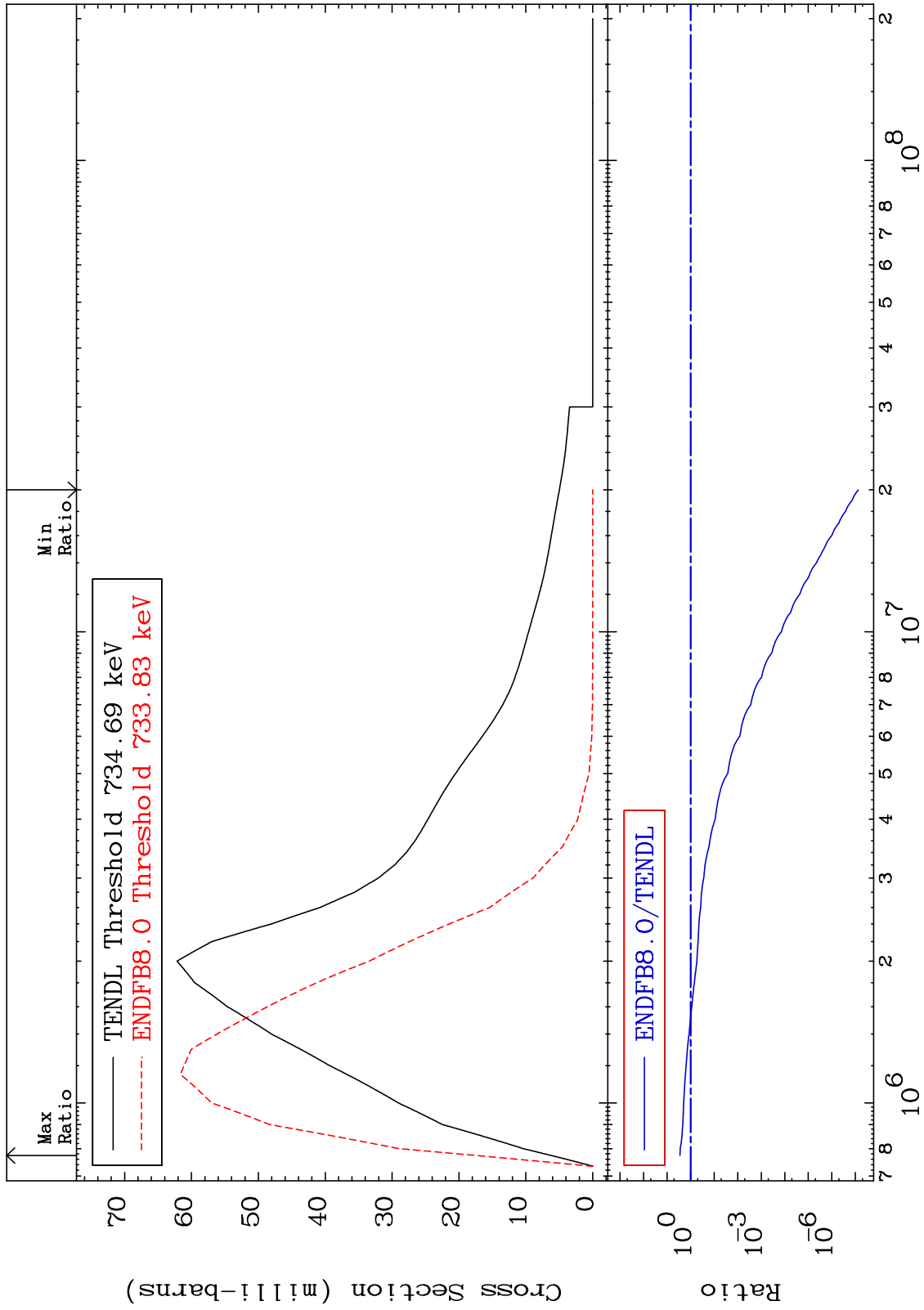


16

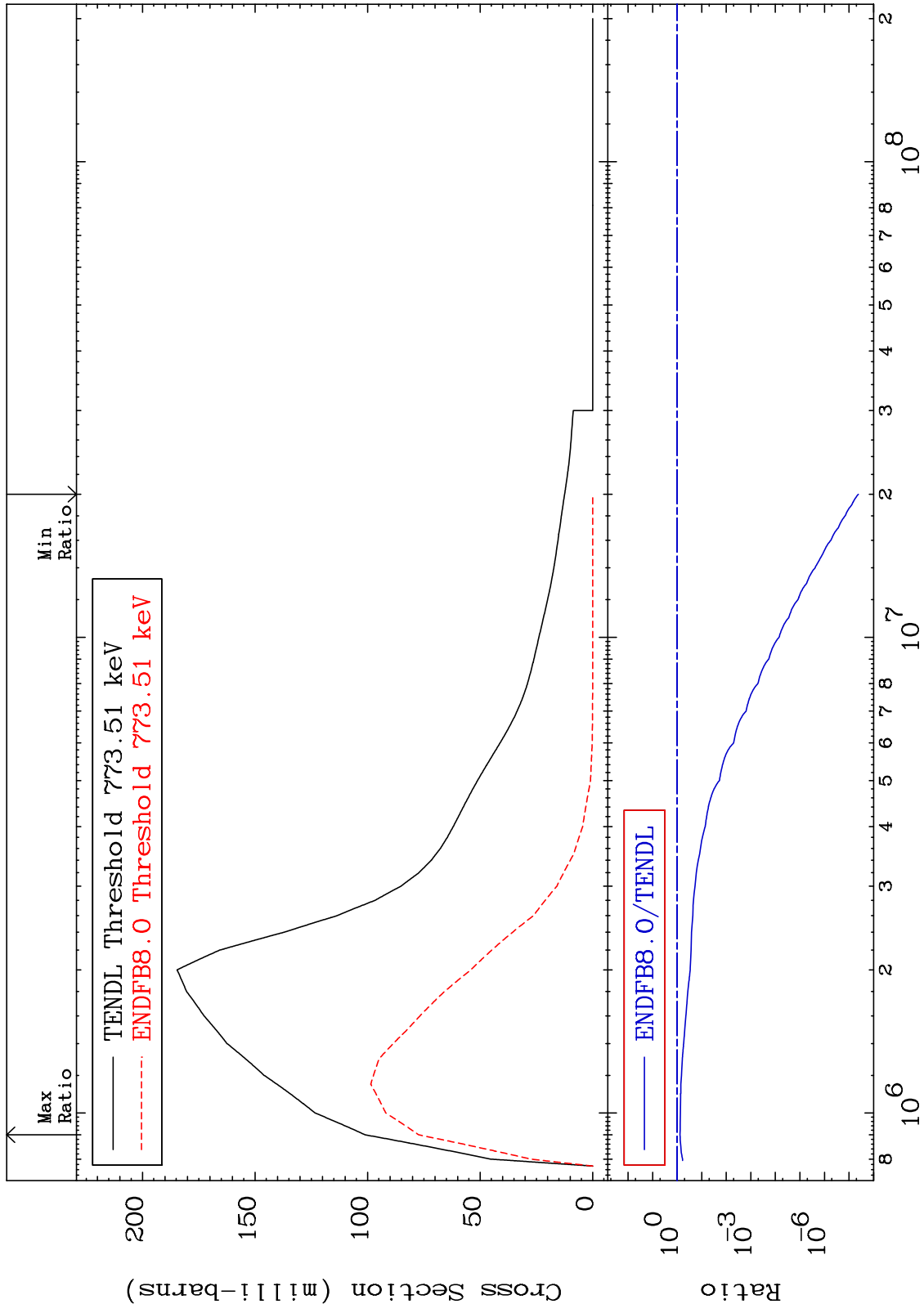
Incident Energy (eV)

55-Cs-133

MAT 5525 MT= 58 (n,n') Level Cross Section 55-Cs-133 -100.0 To 181.8 %



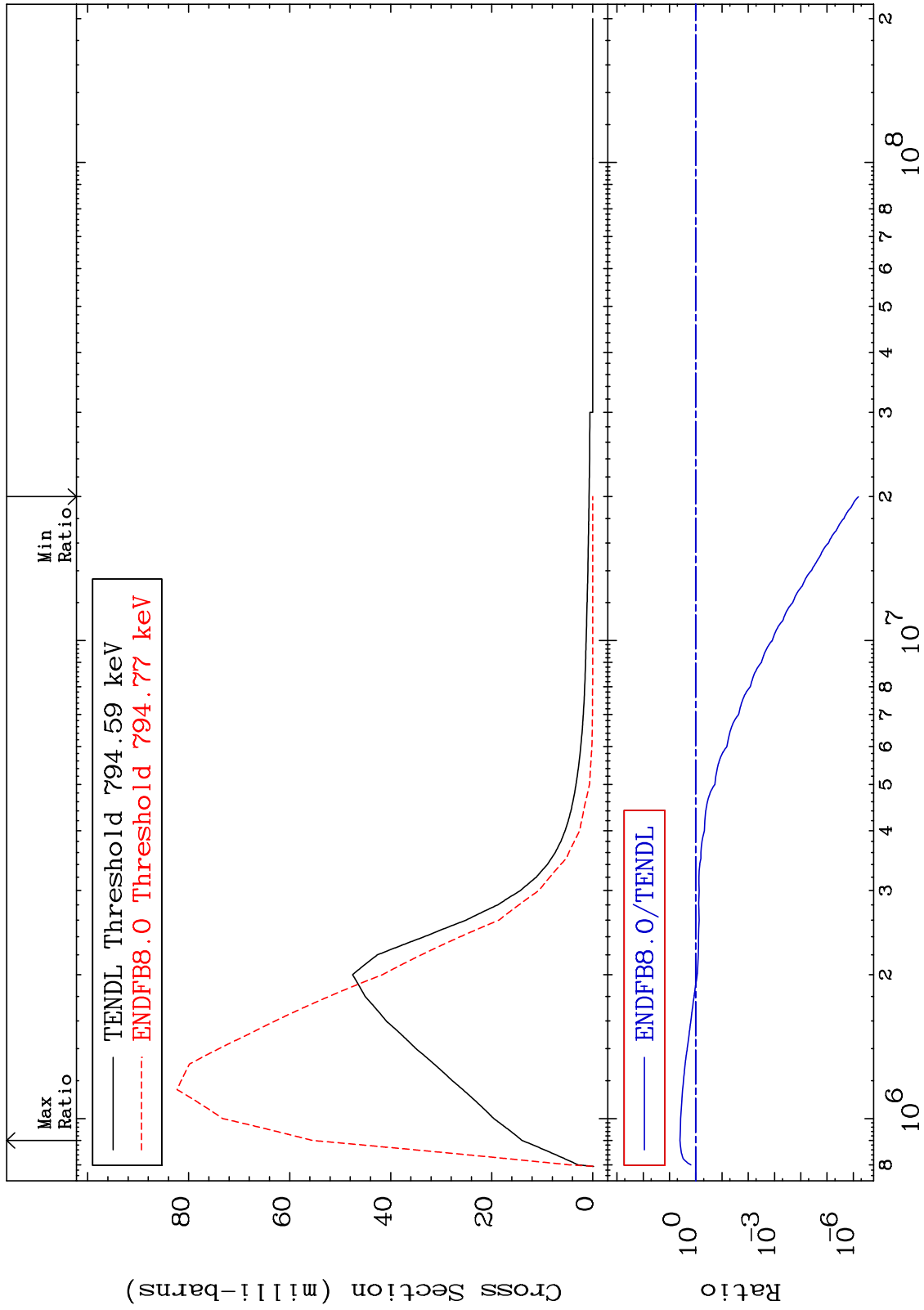
MAT 5525 MT= 59 (n,n') Level Cross Section 55-Cs-133 -100.0 To -23.53%



MAT 5525

MT= 60 (n,n') Level
Cross Section

55-Cs-133
-100.0 To 297.2 %

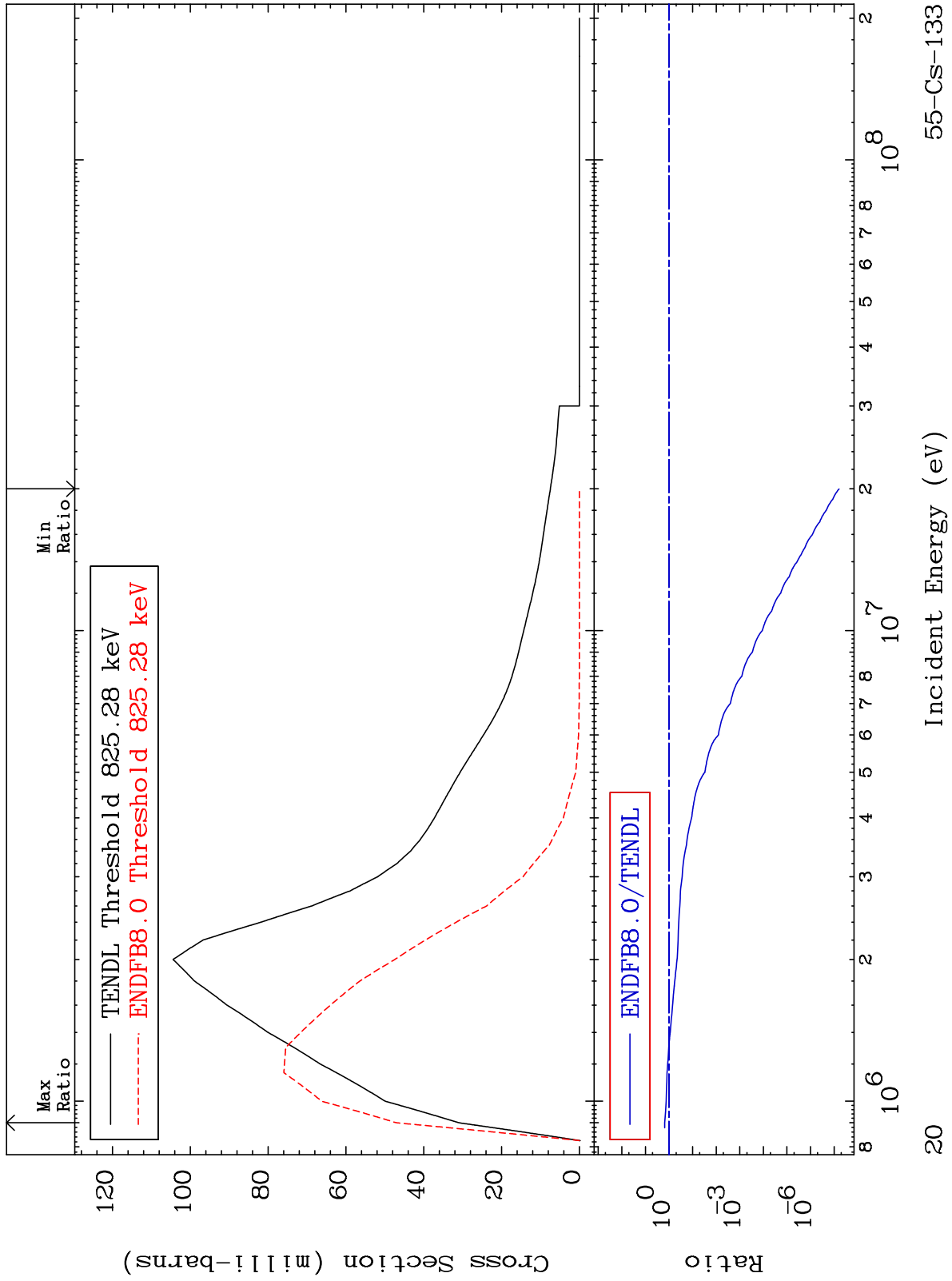


19

Incident Energy (eV)

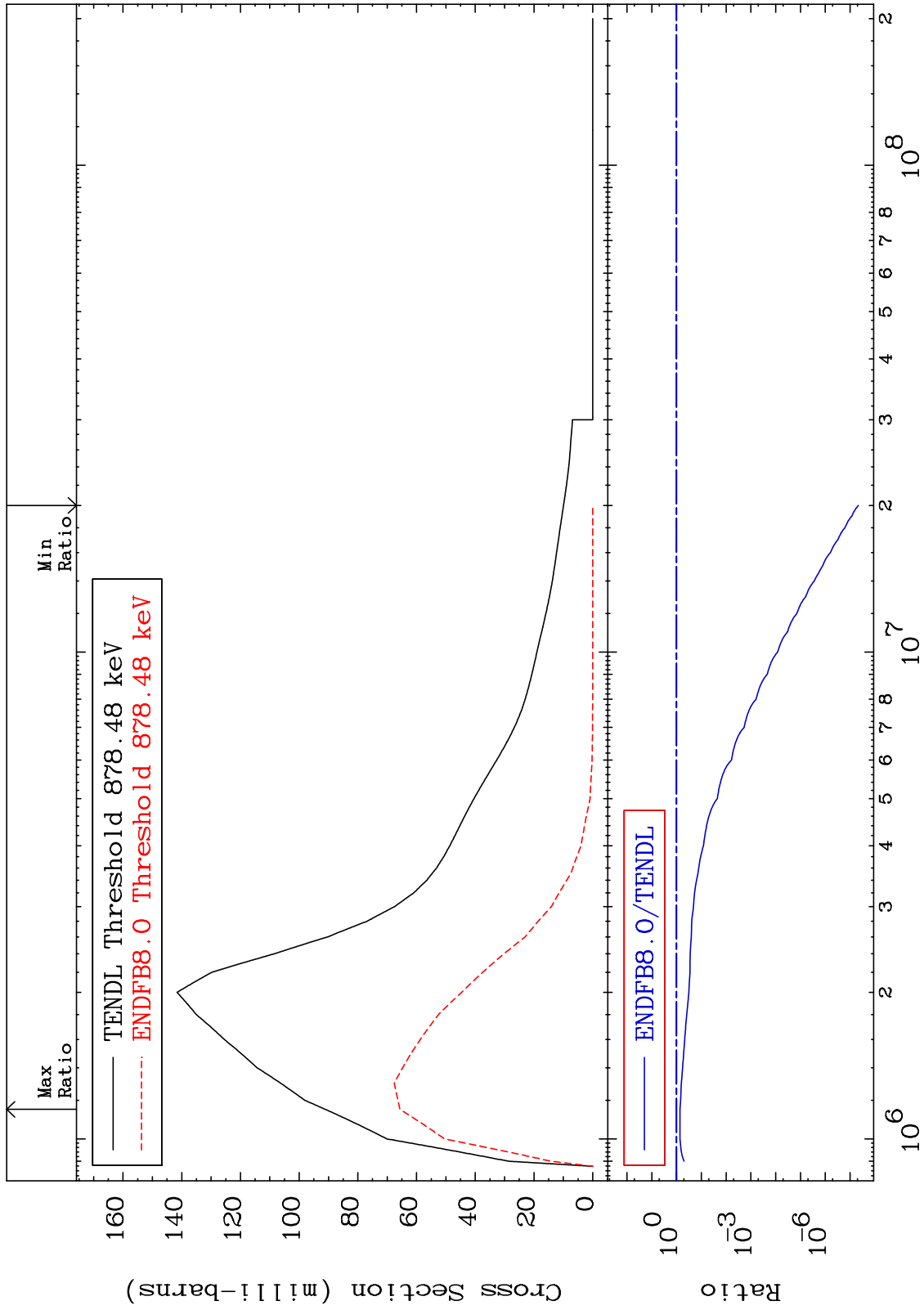
55-Cs-133

MAT 5525 MT= 61 (n,n') Level Cross Section 55-Cs-133 -100.0 To 51.77 %



20 Incident Energy (eV) 55-Cs-133

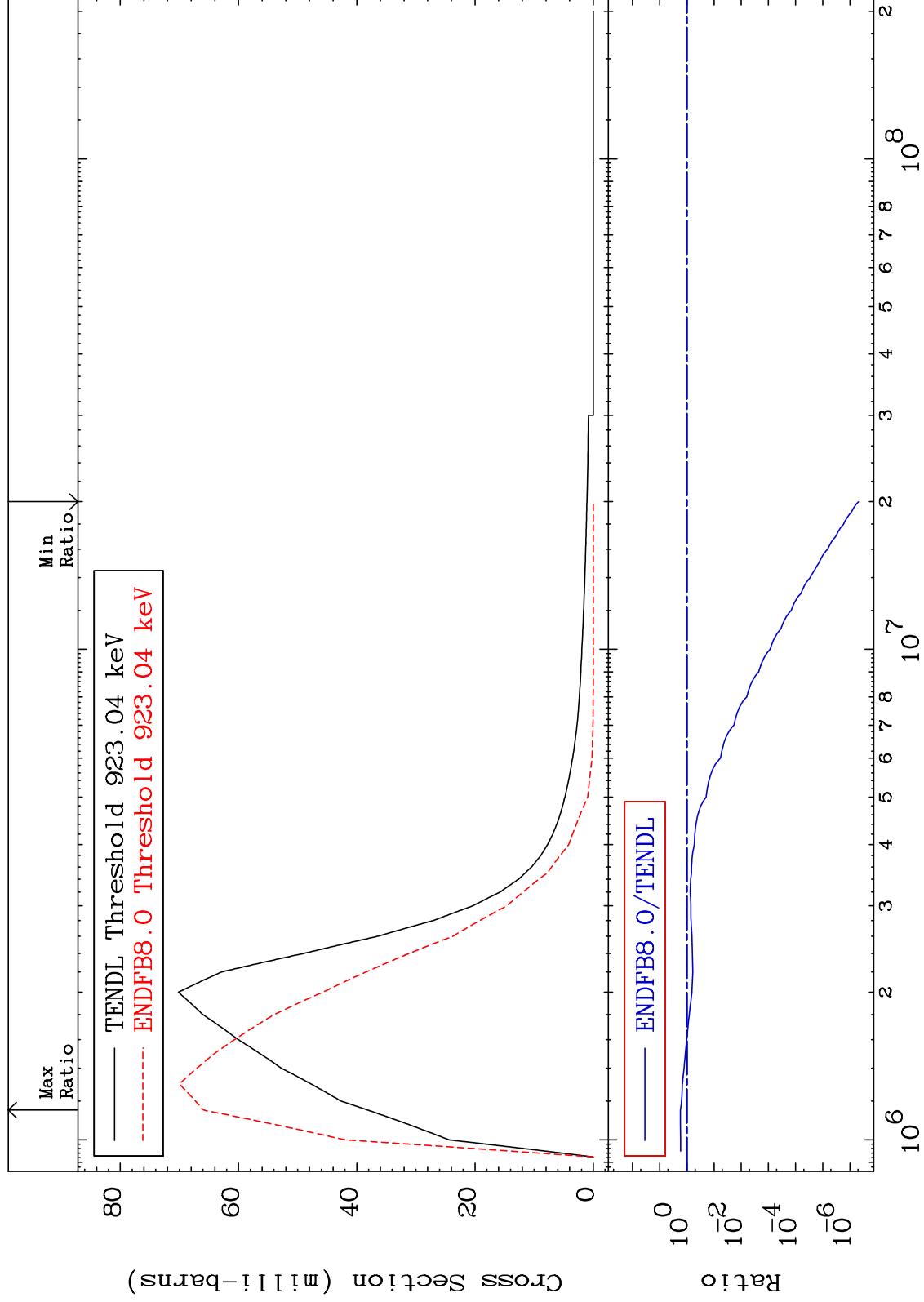
MAT 5525 MT= 62 (n,n') Level Cross Section 55-Cs-133
 -100.0 To -27.88%



MAT 5525

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

55-Cs-133
-100.0 To 72.92 %



22

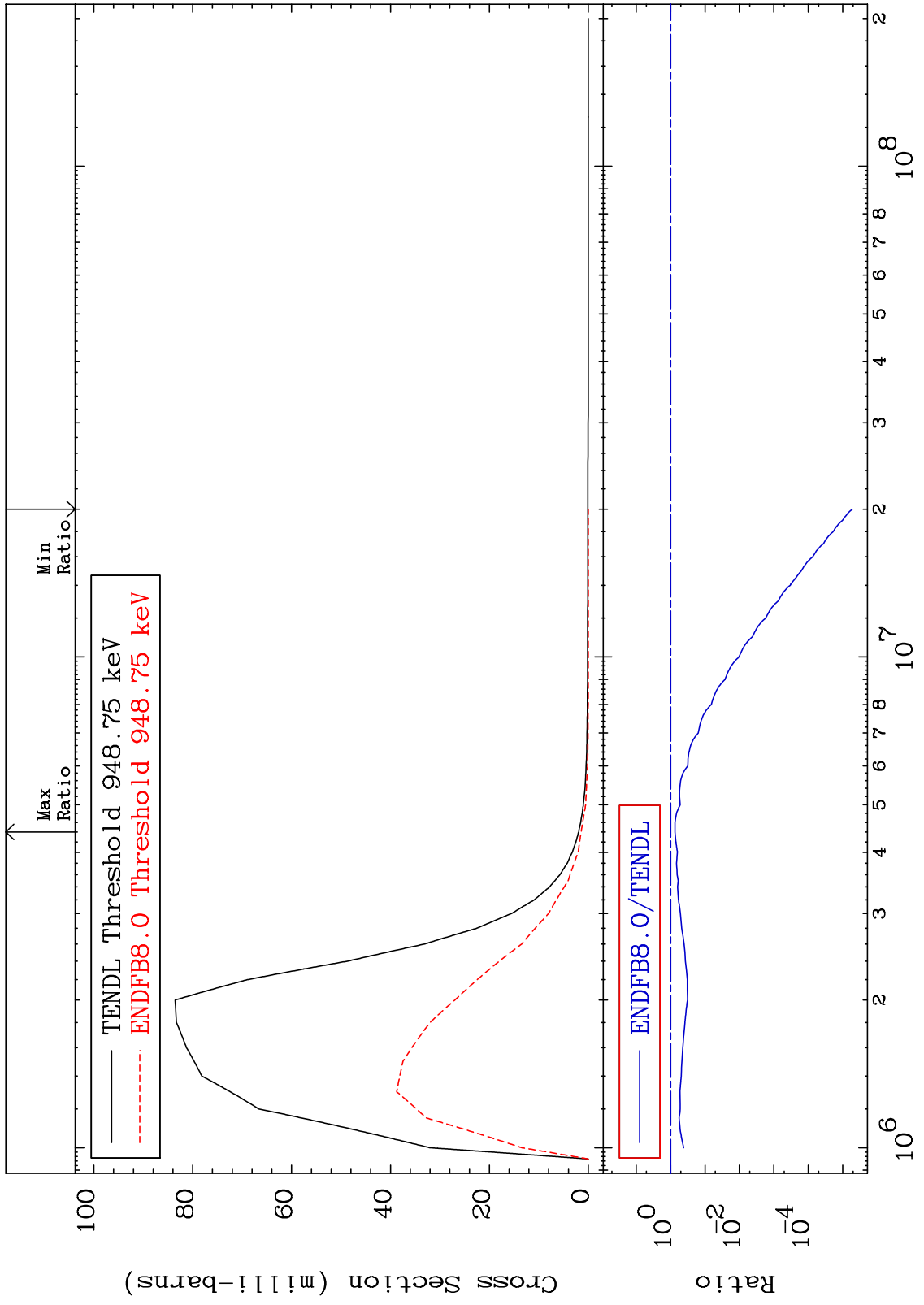
Incident Energy (eV)

55-Cs-133

MAT 5525

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

55-Cs-133
-100.0 To -25.97%



23

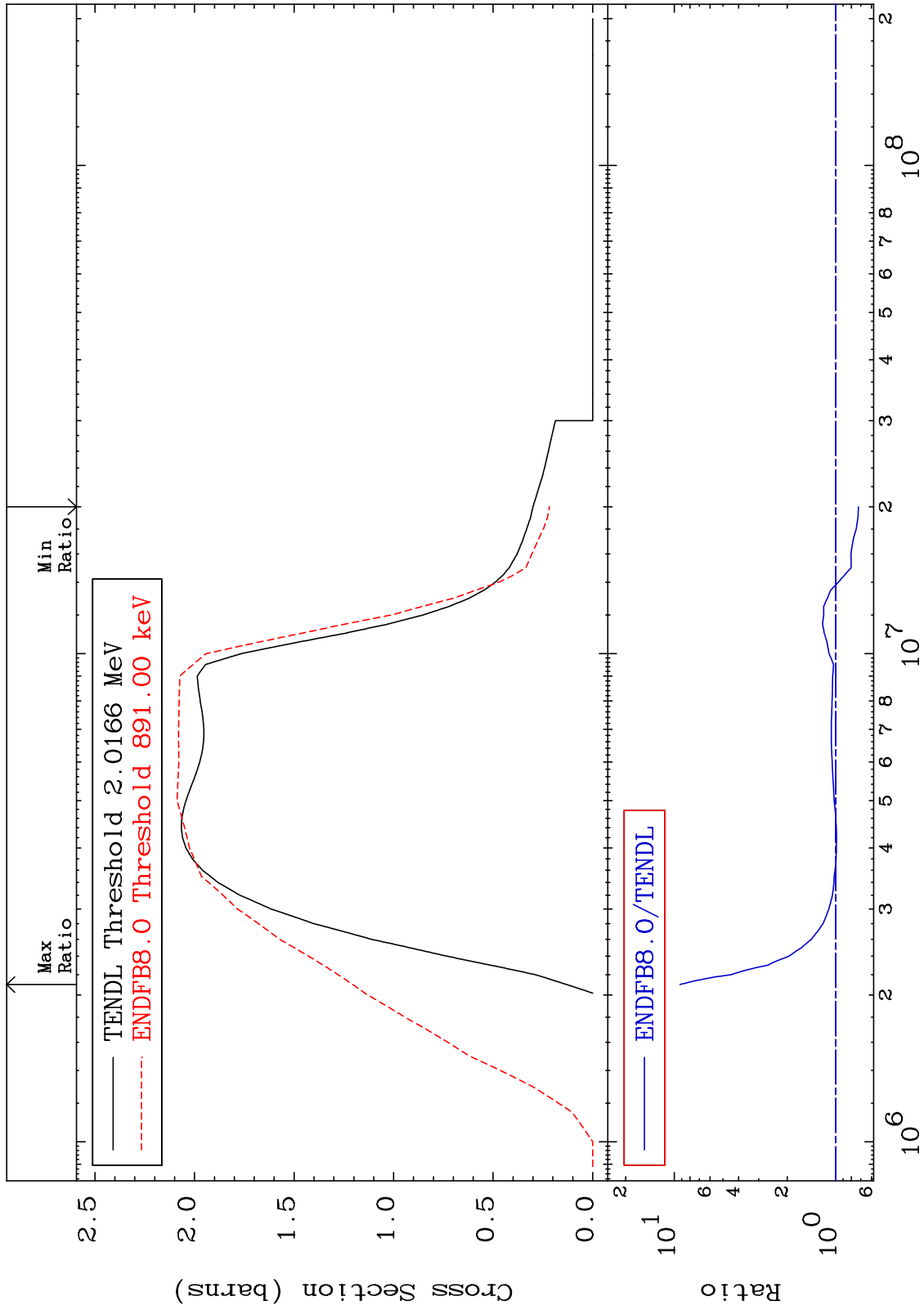
Incident Energy (eV)

55-Cs-133

MAT 5525

(n, n') Continuum
Cross Section

55-Cs-133
-27.63 To 822.0 %



24

Incident Energy (eV)

55-Cs-133

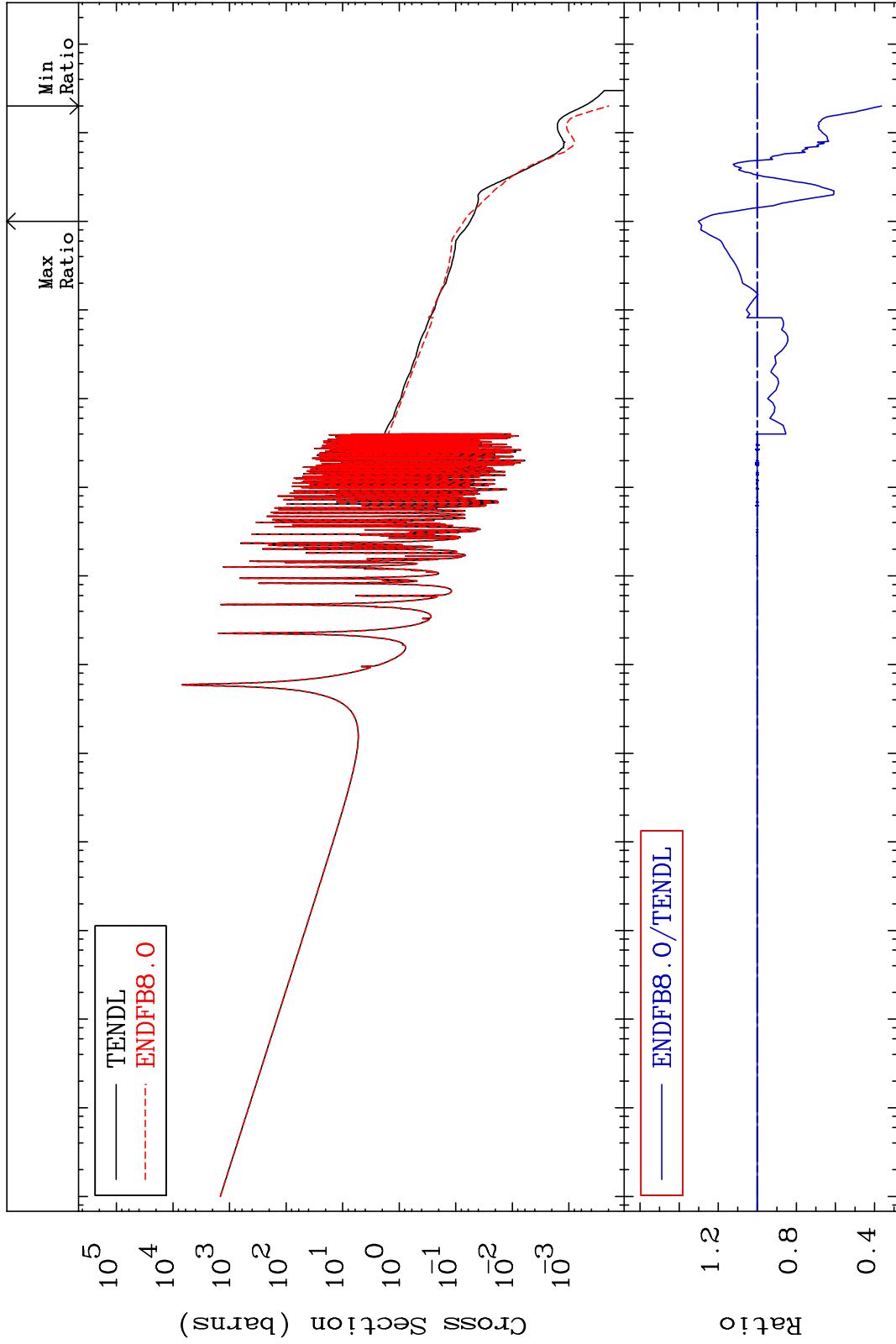
MAT 5525

(n, γ)

55-Cs-133

Cross Section

-63.61 To 30.16 %



Incident Energy (eV)

55-Cs-133

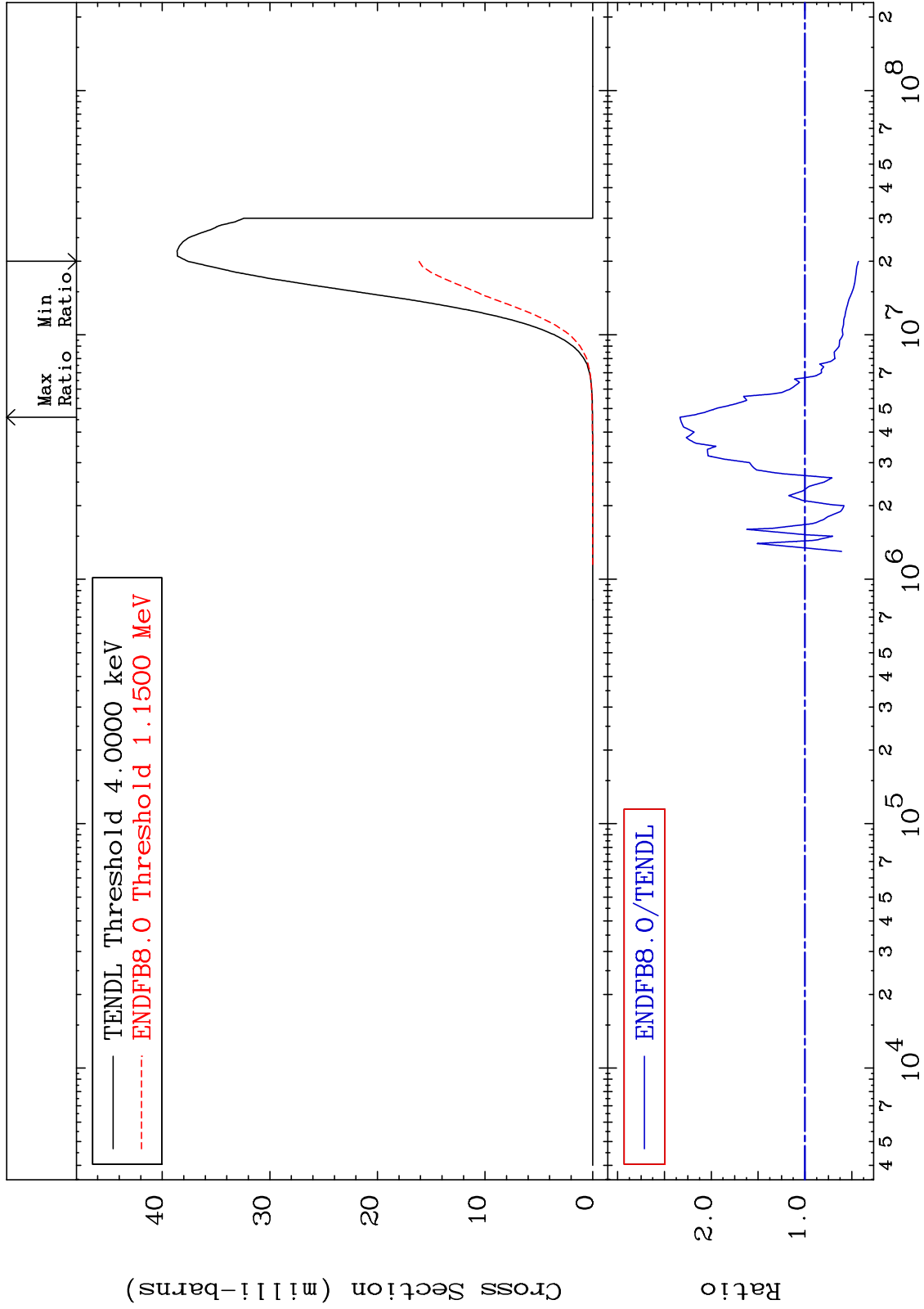
MAT 5525

(n,p)

55-Cs-133

Cross Section

-57.07 To 133.4 %



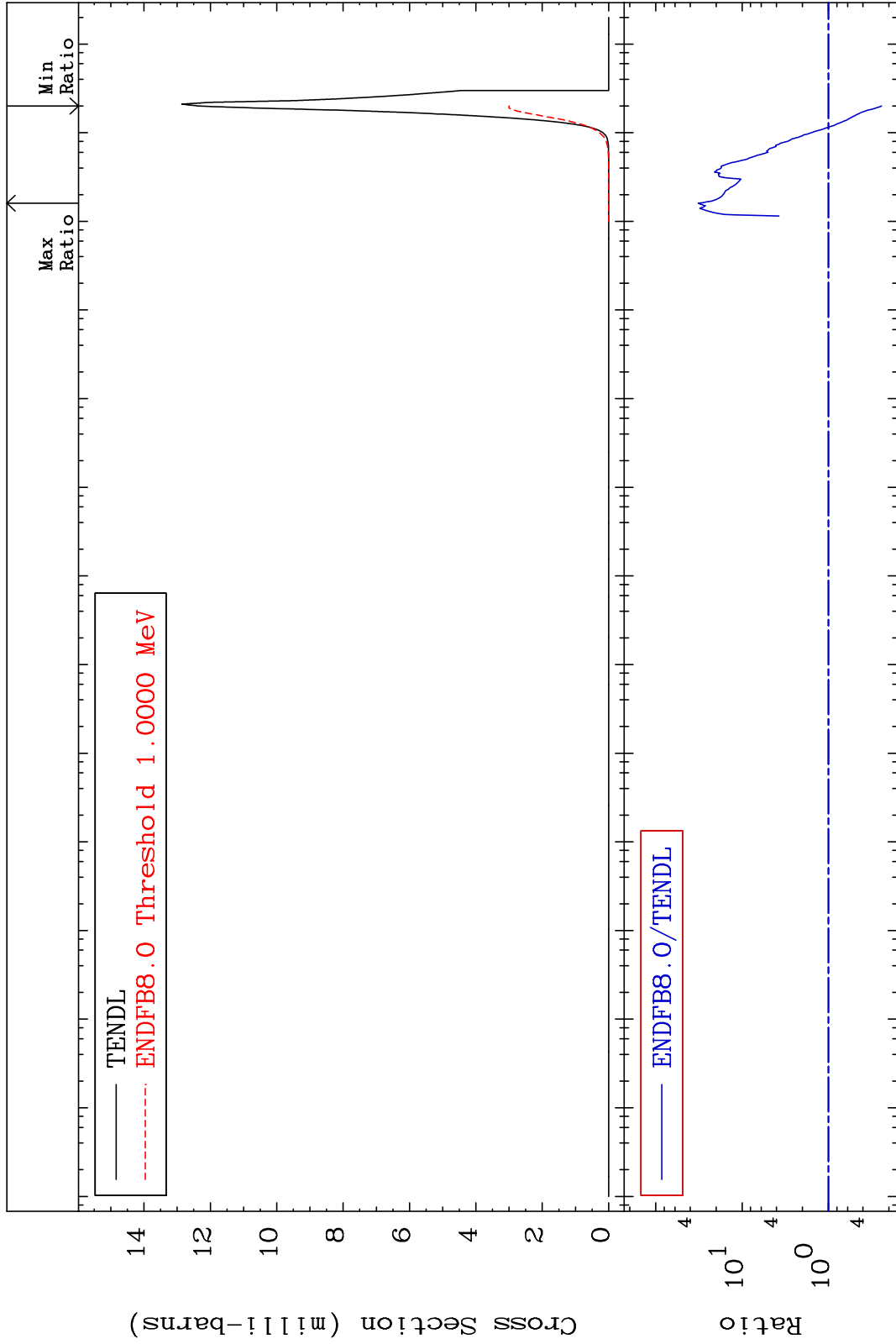
MAT 5525

(n, α)

55-Cs-133

Cross Section

-75.72 To 3116. %



14
12
10
8
6
4
2
0

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Ratio

10¹

10⁰

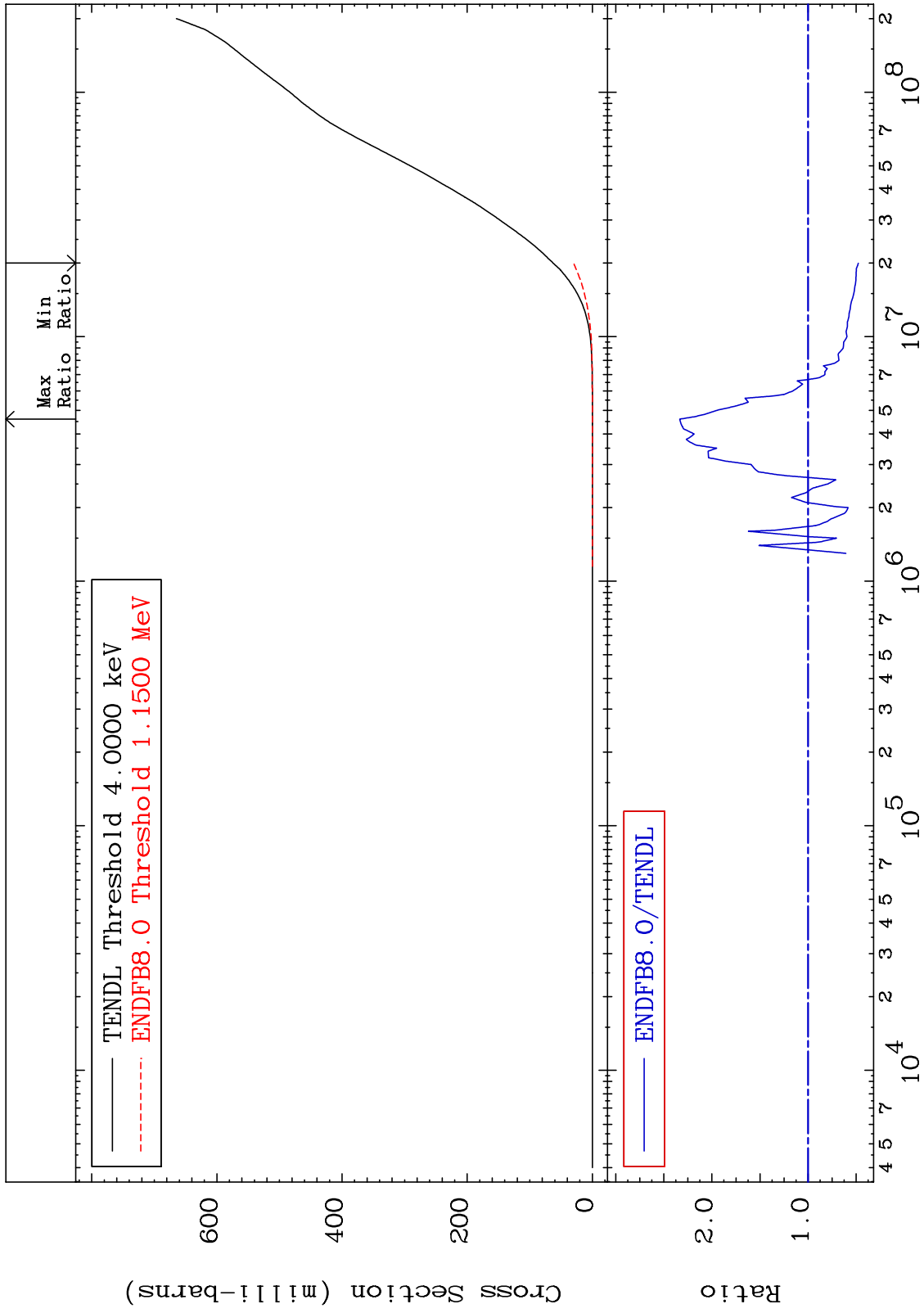
Incident Energy (eV)

55-Cs-133

MAT 5525

Hydrogen Production
Cross Section

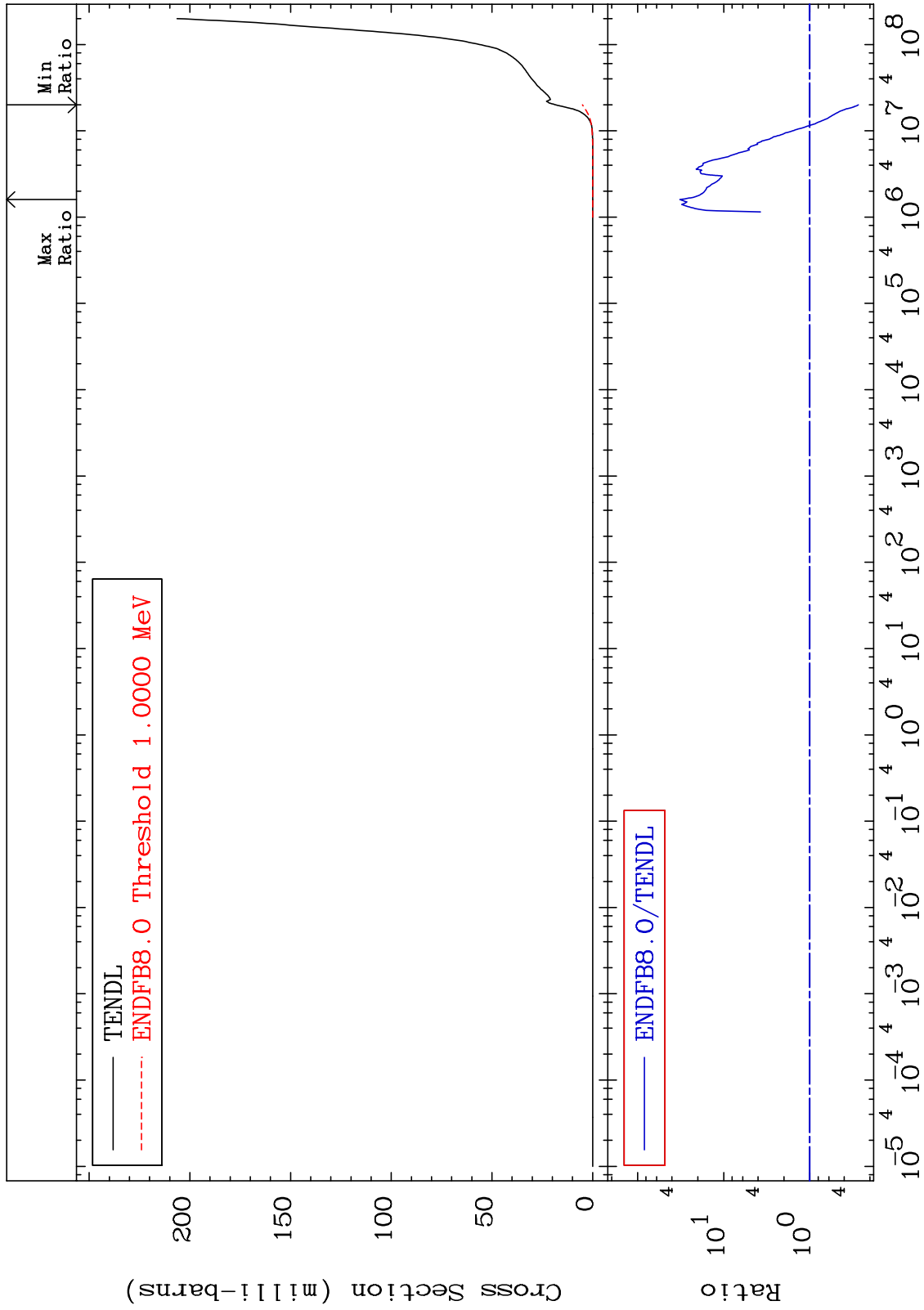
55-Cs-133
-52.30 To 133.4 %



MAT 5525

He-4 Production
Cross Section

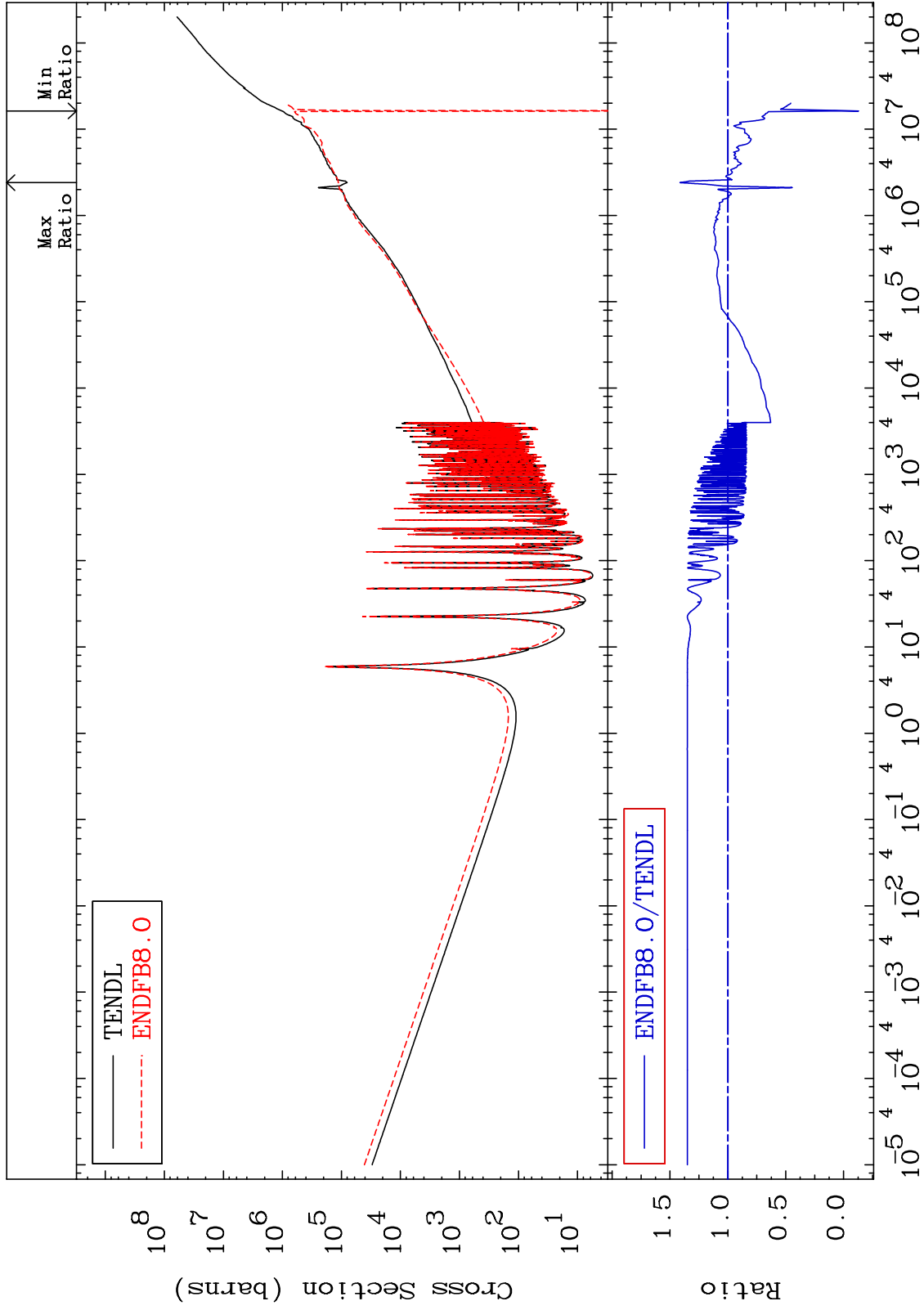
55-Cs-133
-72.72 To 3116. %



MAT 5525

Kerma total (eV-barns)
Cross Section

55-Cs-133
-112.8 To 41.36 %



30

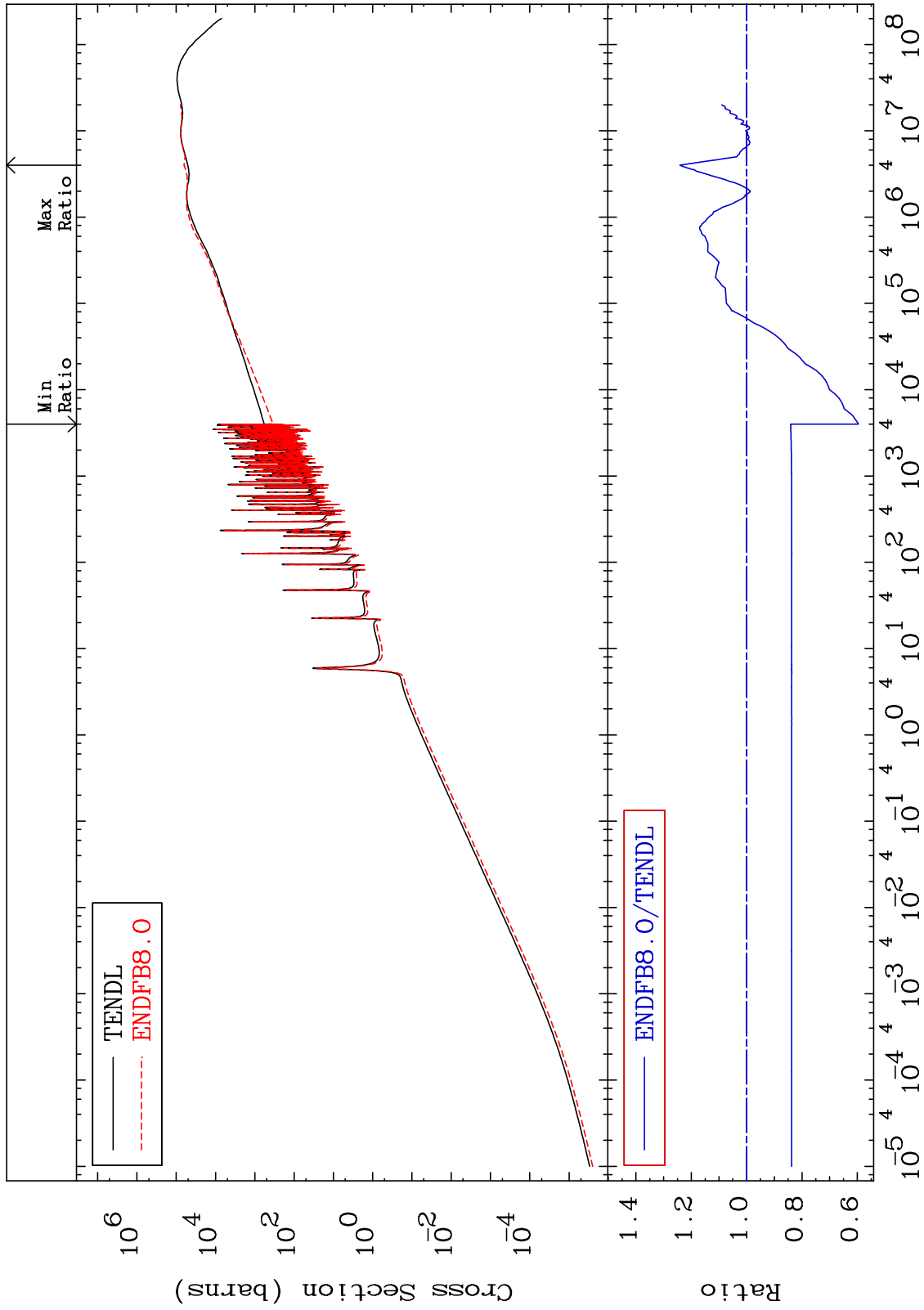
Incident Energy (eV)

55-Cs-133

MAT 5525

Kerma elastic
Cross Section

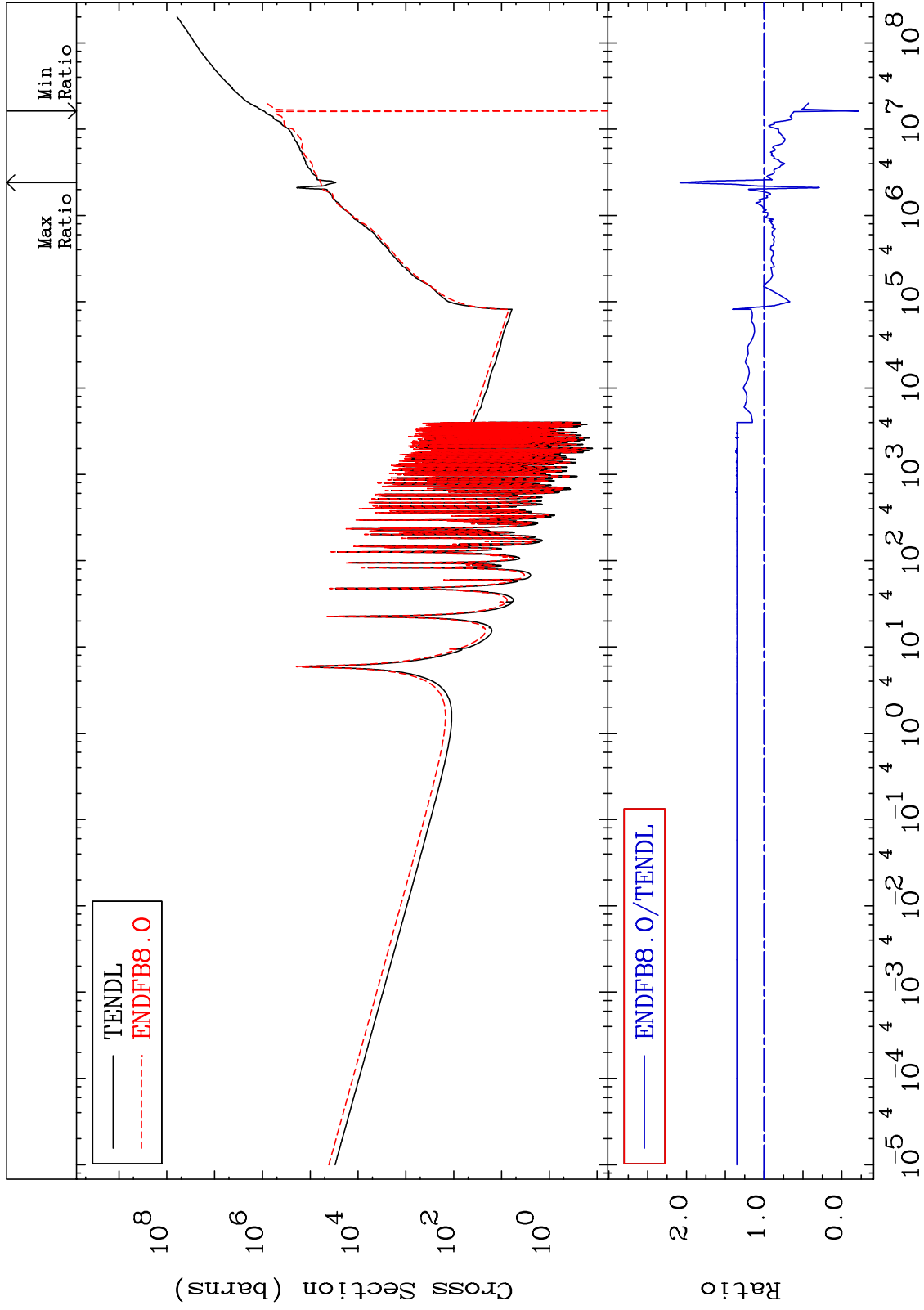
55-Cs-133
-40.39 To 24.08 %



MAT 5525

Kerma non-elastic (all but mt2)
Cross Section

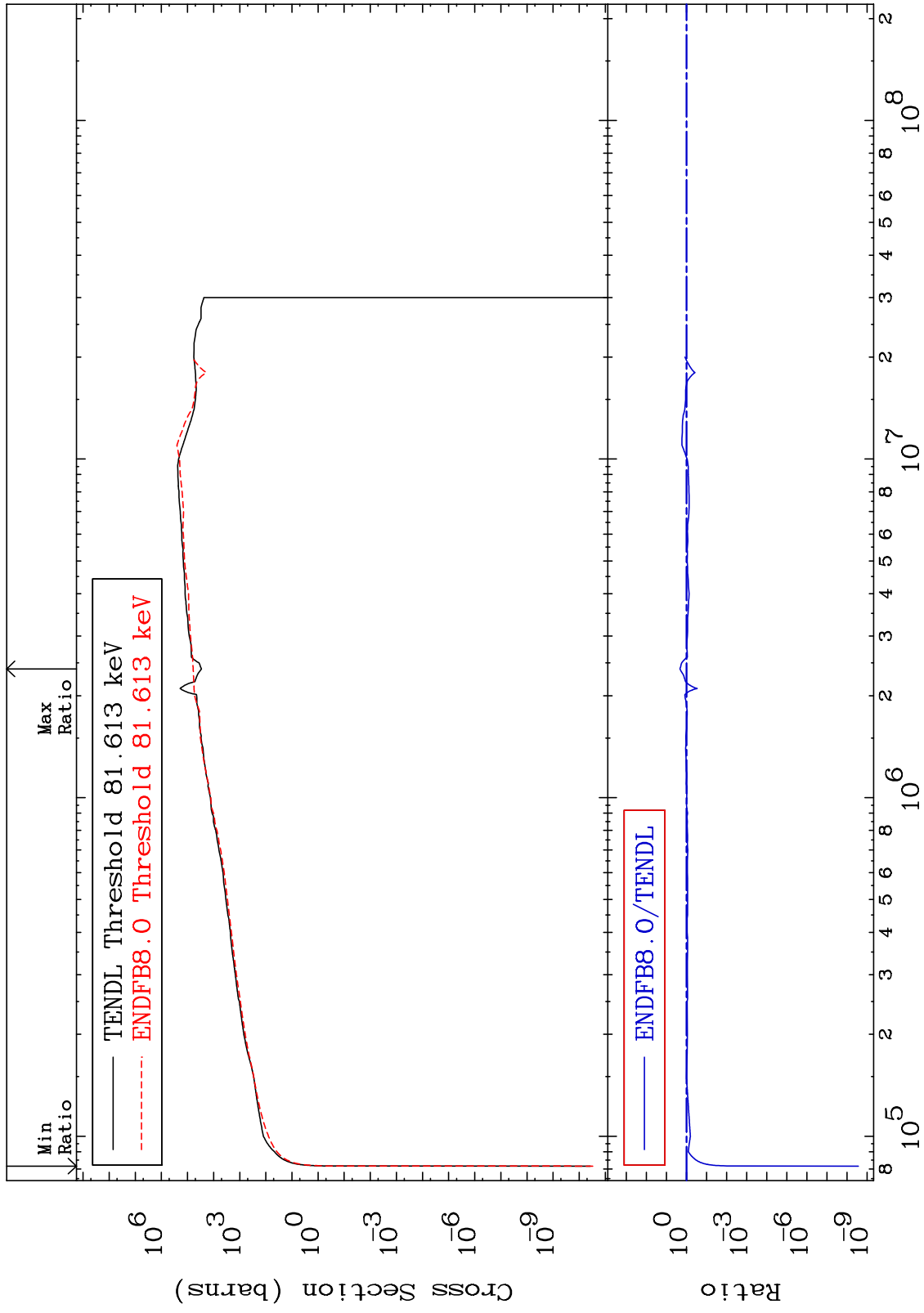
55-Cs-133
-121.4 To 108.3 %



MAT 5525

Kerma inelastic (mt51-91)
Cross Section

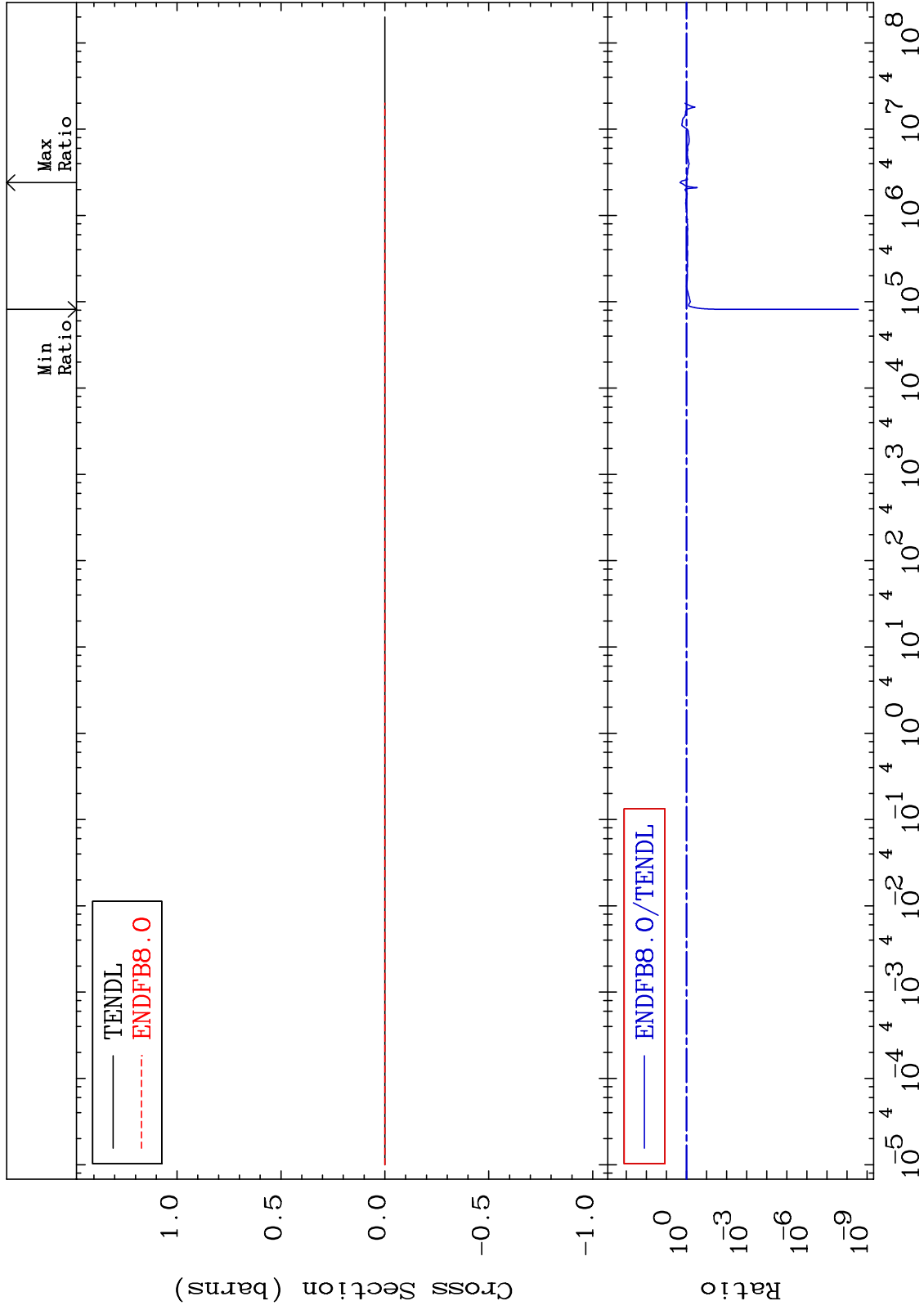
55-Cs-133
-100.0 To 108.3 %



MAT 5525

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

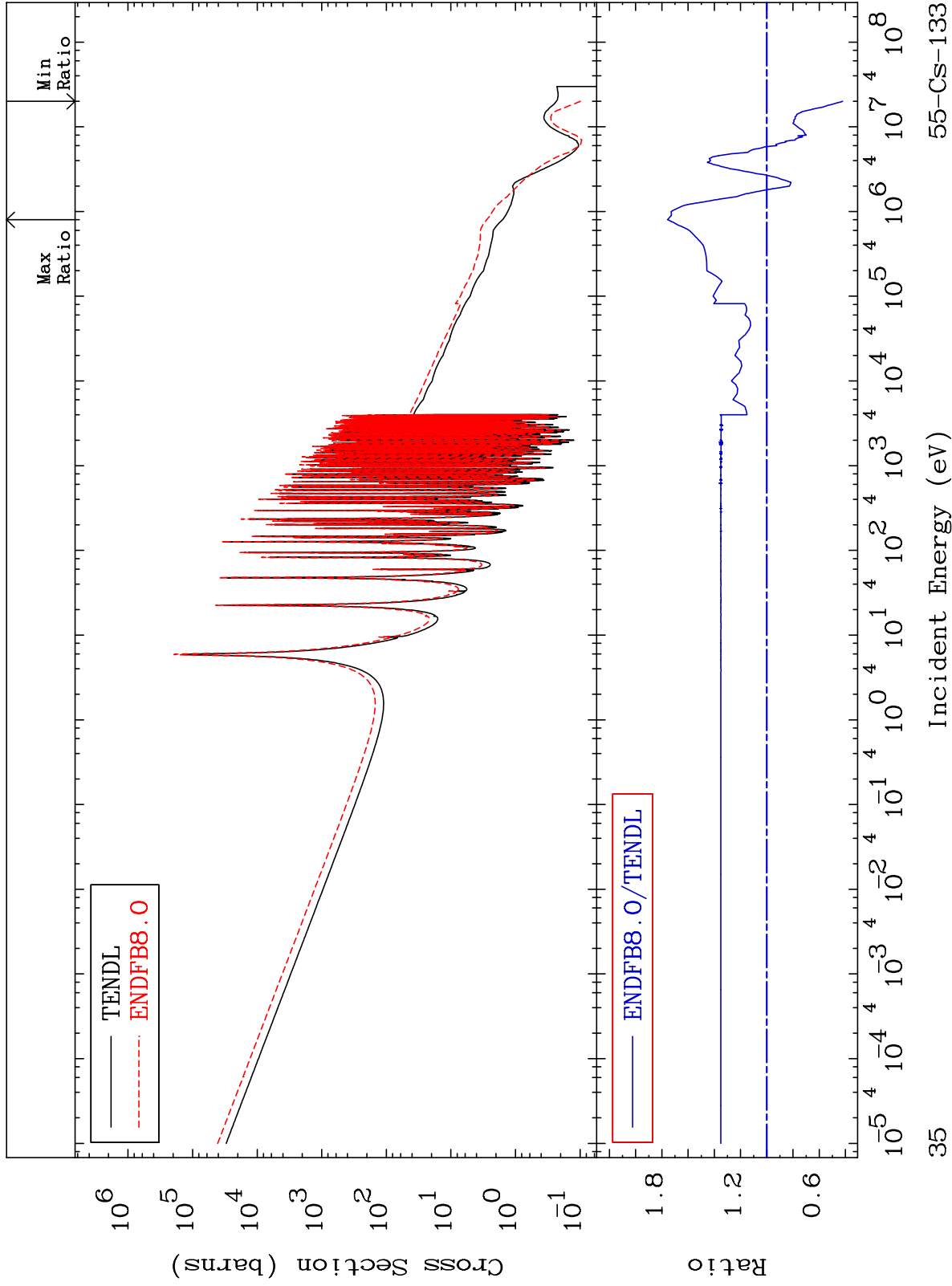
55-Cs-133
-100.0 To 108.3 %



MAT 5525

Kerma capture (mt102)
Cross Section

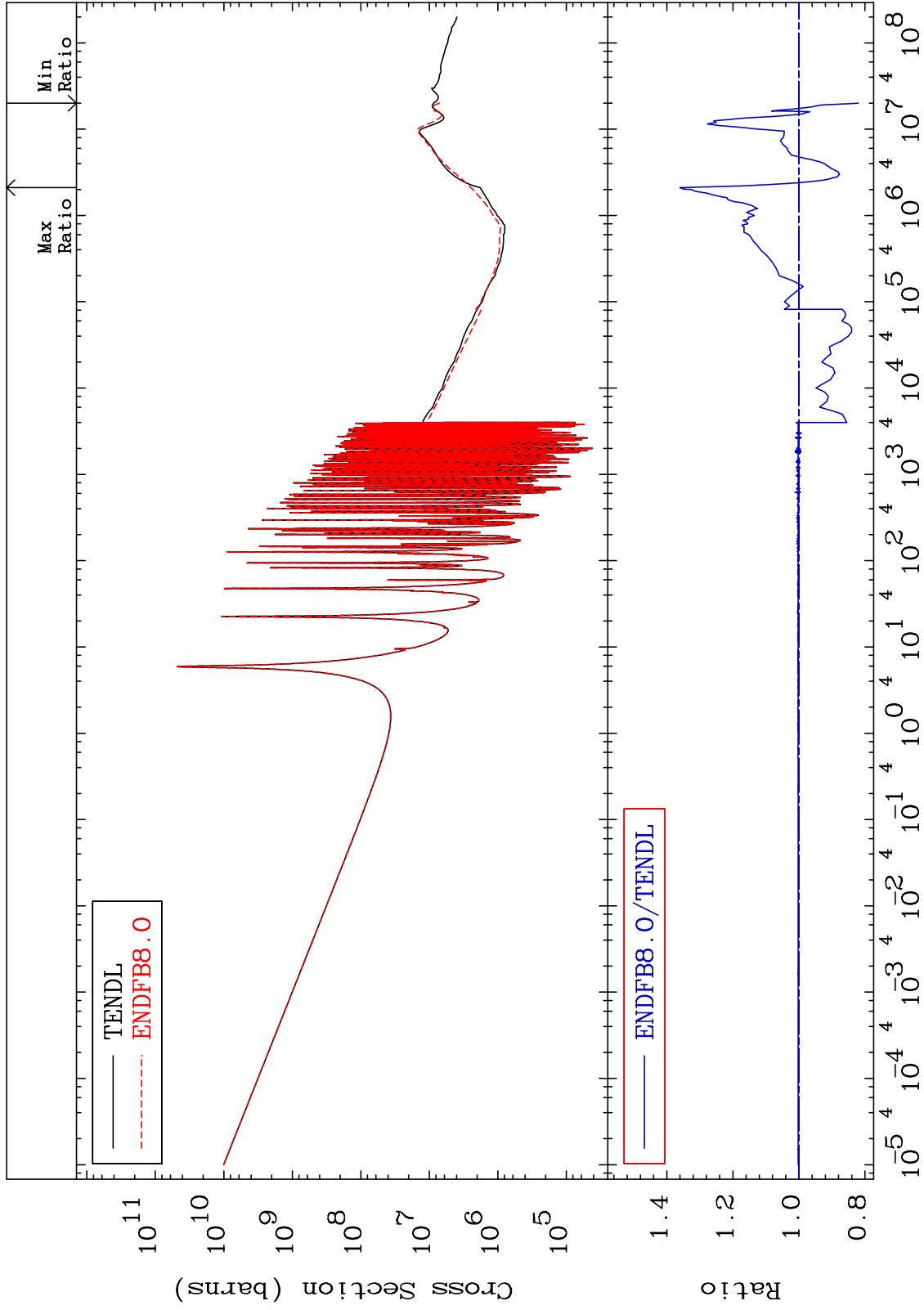
55-Cs-133
-57.87 To 75.68 %



MAT 5525

Total photon (eV-barns)
Cross Section

55-Cs-133
-18.02 To 36.00 %

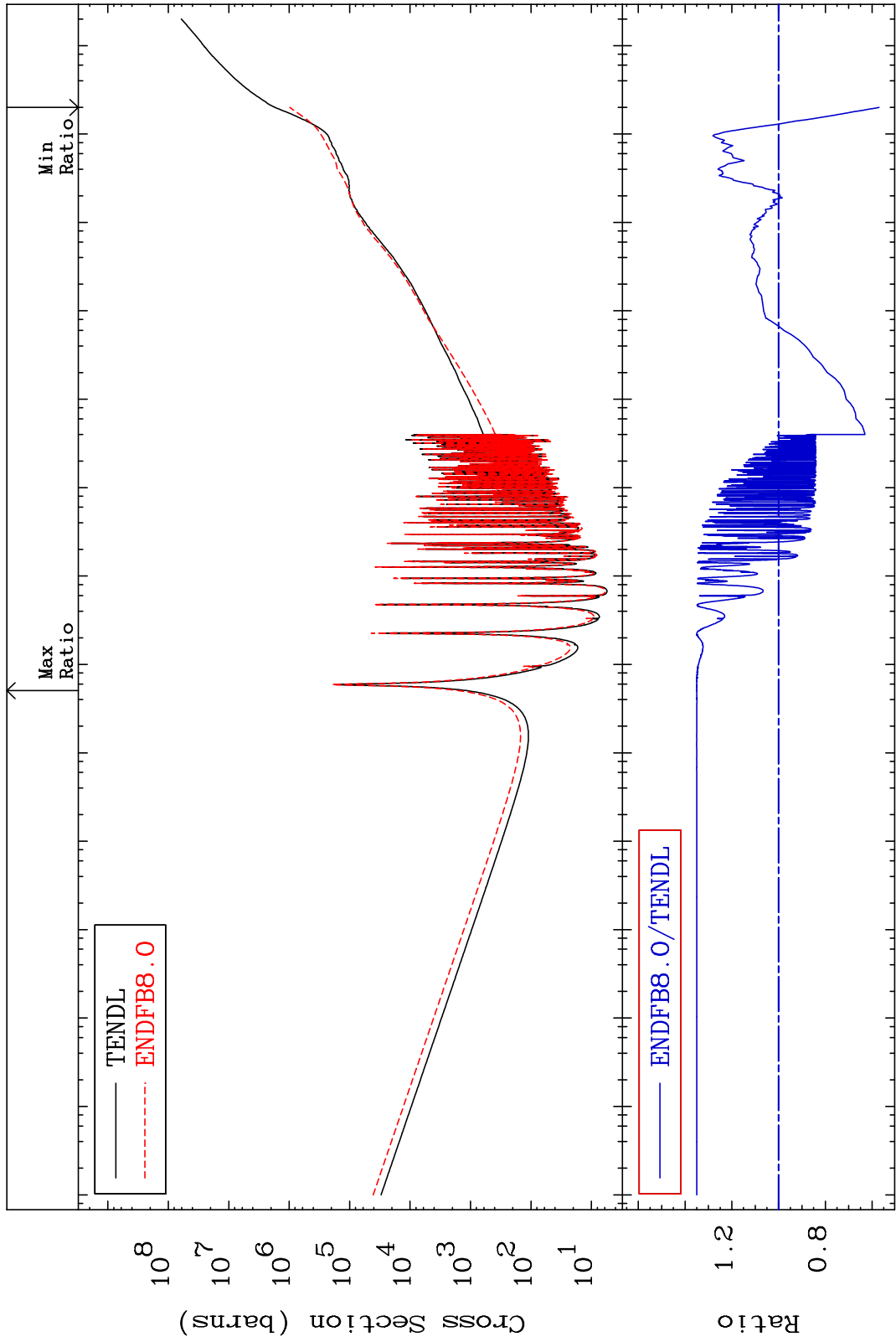


36

Incident Energy (eV)

55-Cs-133

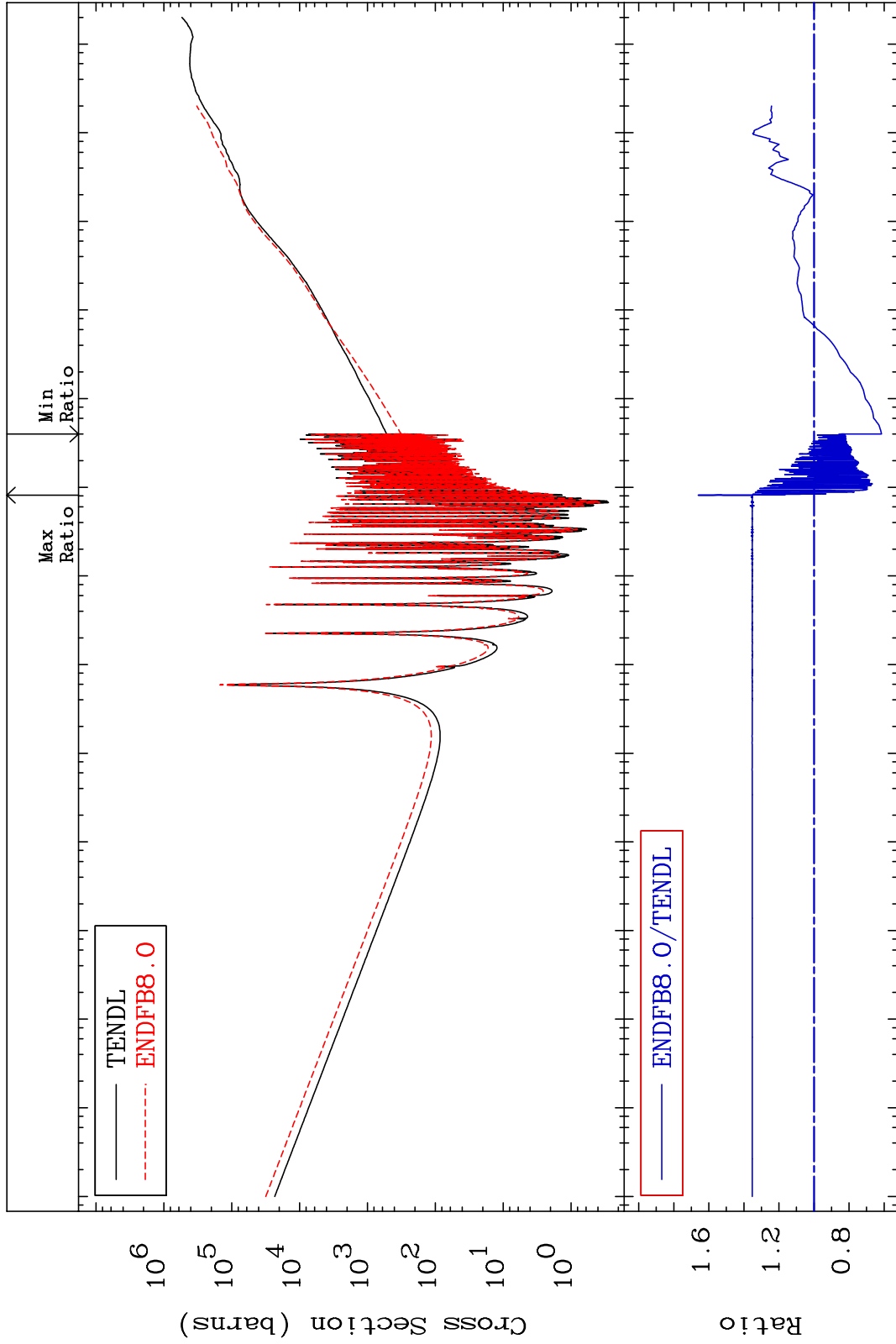
MAT 5525 Total kinematic kerma (high limit) 55-Cs-133
Cross Section -43.00 To 35.17 %



MAT 5525

Dpa total (eV-barns)
Cross Section

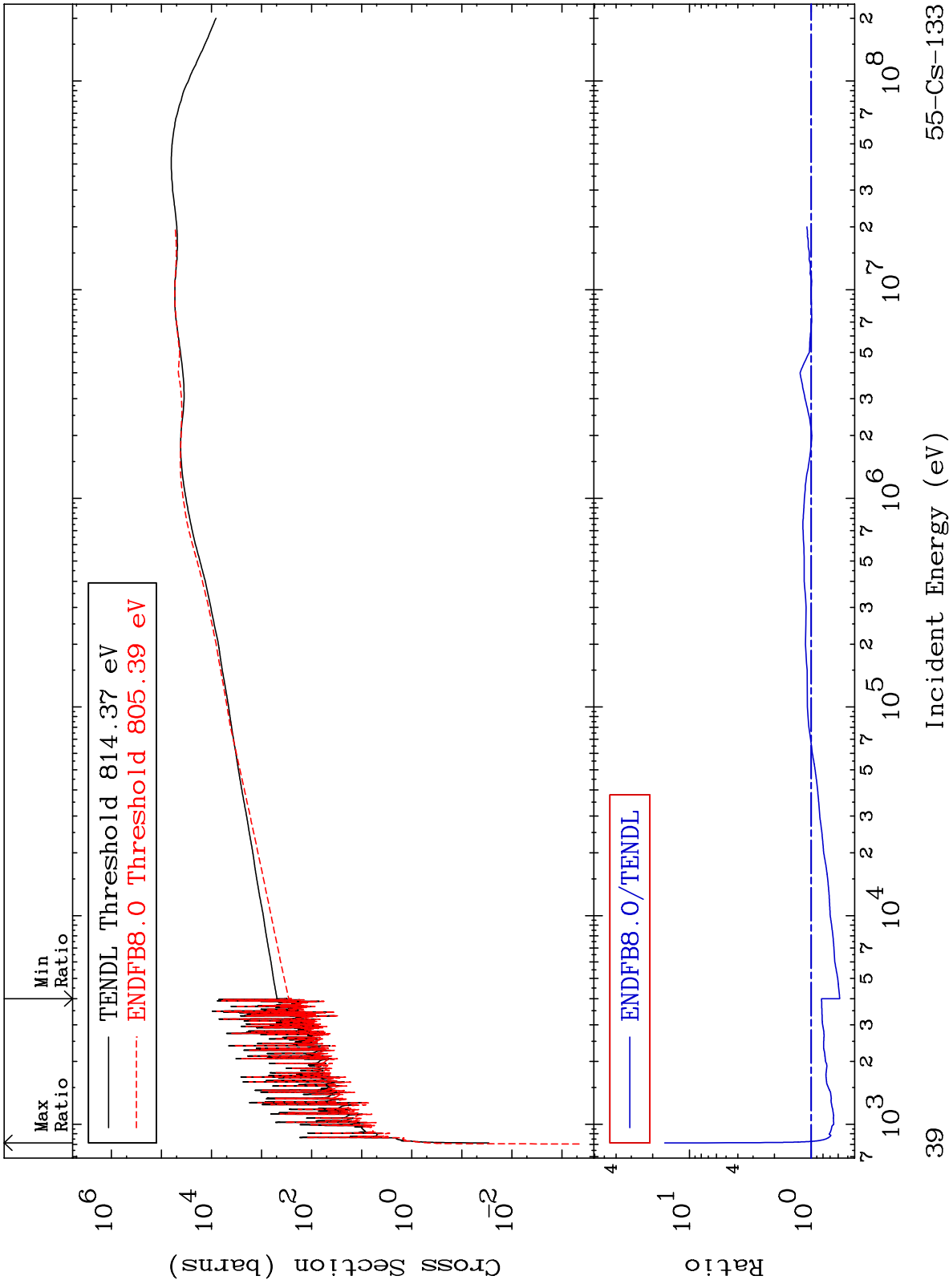
55-Cs-133
-38.54 To 65.99 %



MAT 5525

Dpa elastic (mt2)
Cross Section

55-Cs-133
-41.72 To 1494. %



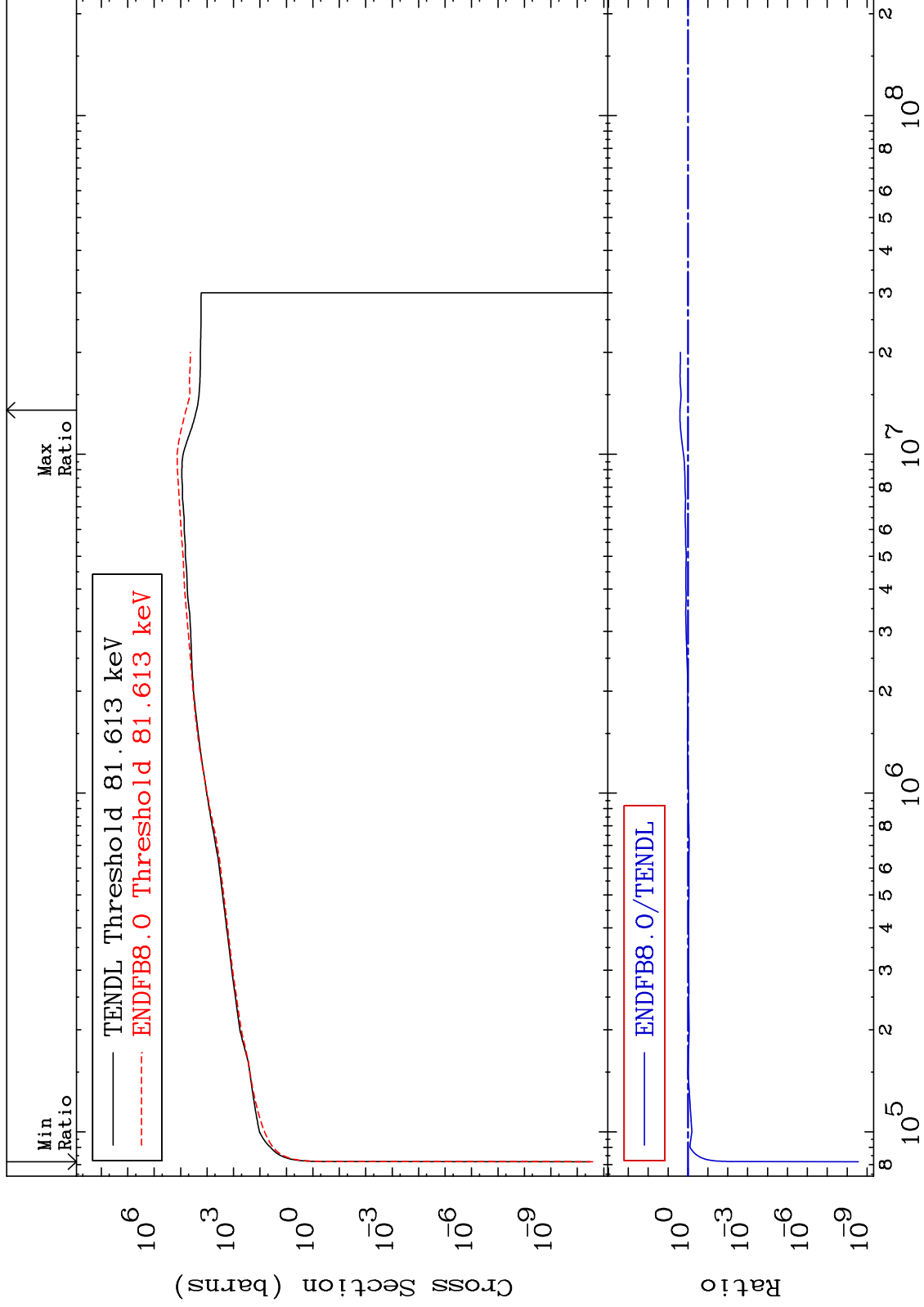
39

55-Cs-133

MAT 5525

Dpa inelastic (mt51-91)
Cross Section

55-Cs-133
-100.0 To 151.3 %



40

Incident Energy (eV)

55-Cs-133

MAT 5525

Dpa disappearance (mt102 -120)
Cross Section

55-Cs-133
-64.29 To 212.3 %

