

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

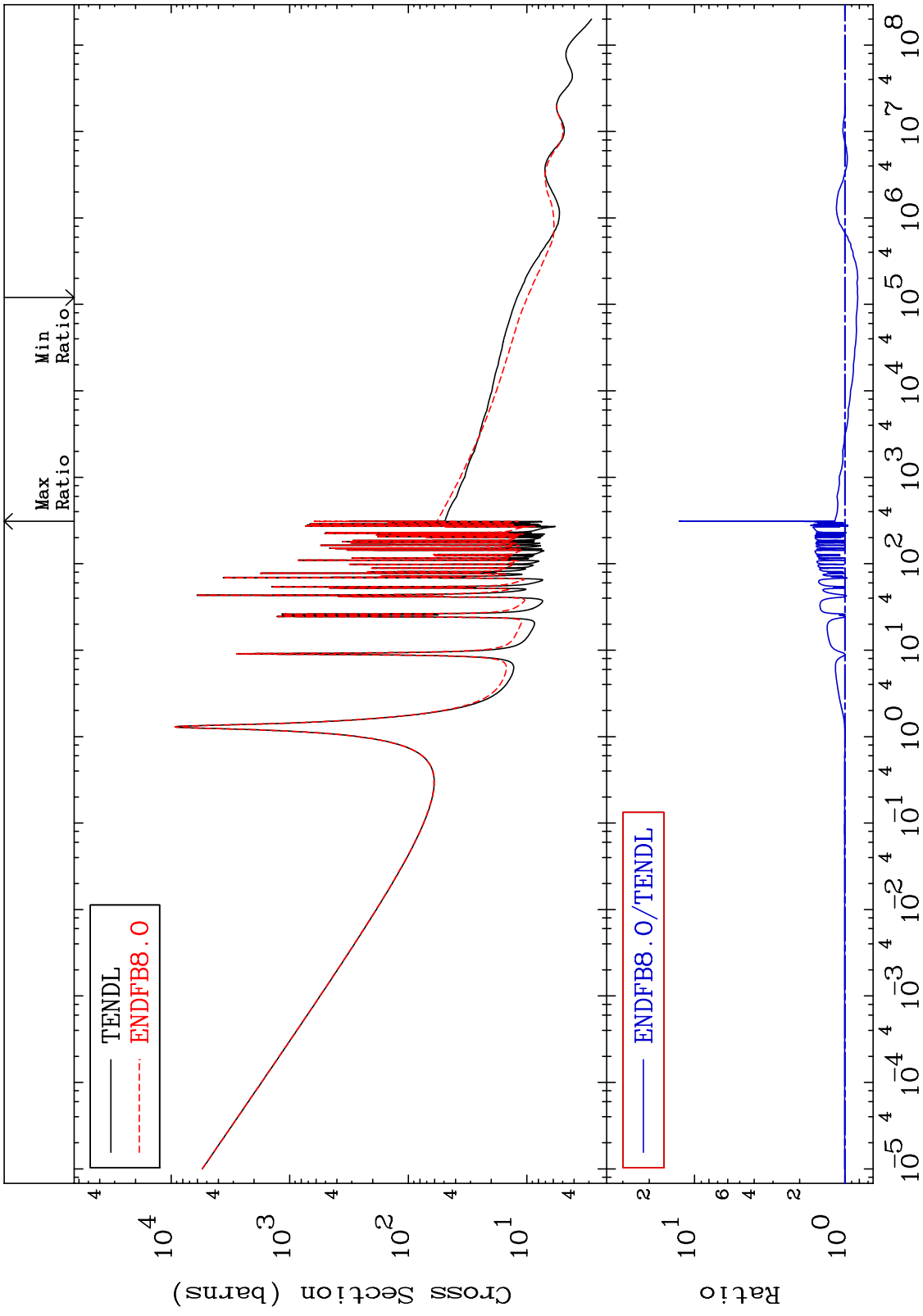
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 7731 77-Ir-193
Total -18.11 To 1166. %
Cross Section

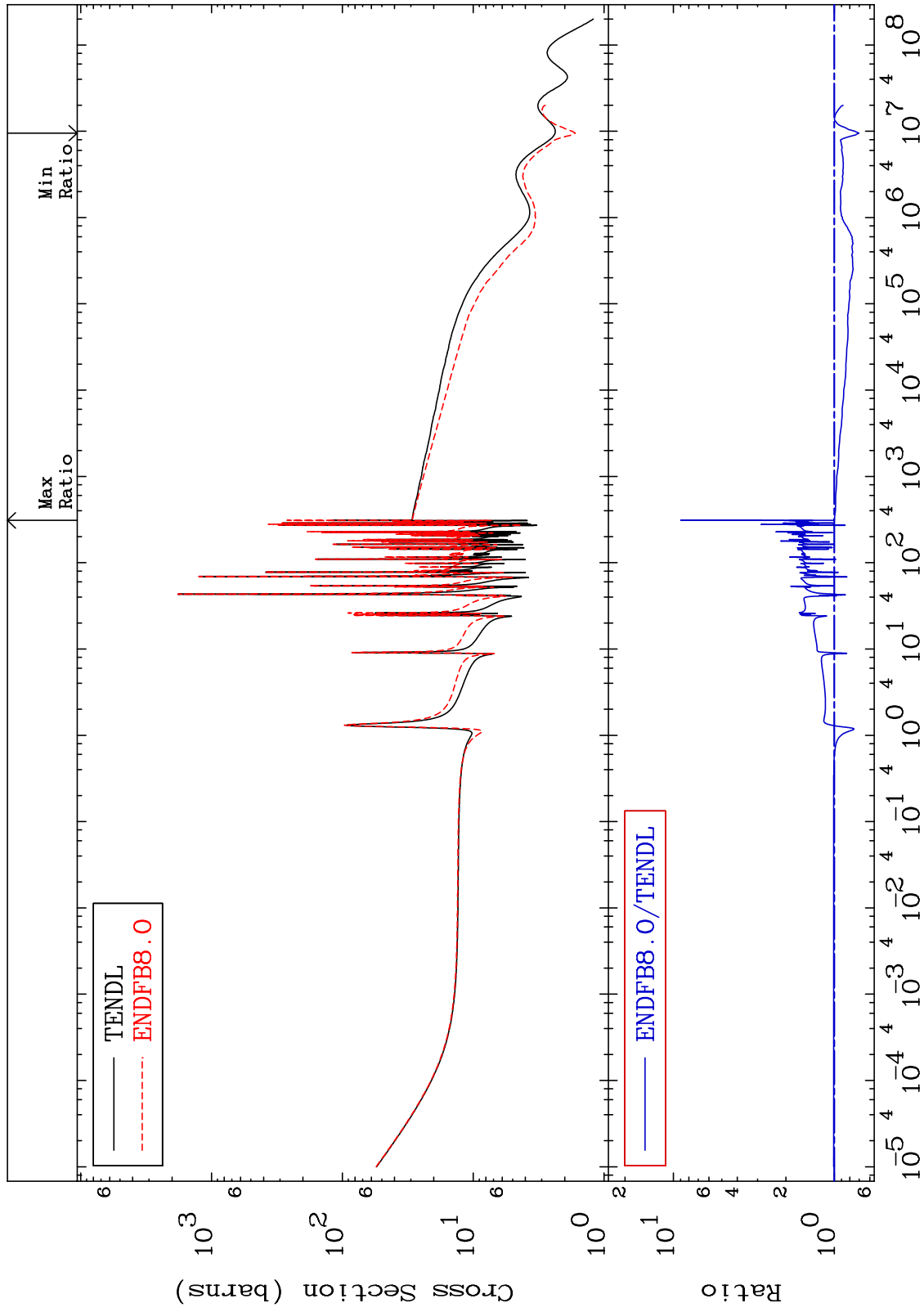


Ratio 77-Ir-193
Incident Energy (eV)

MAT 7731

Elastic
Cross Section

77-Ir-193
-29.84 To 800.5 %

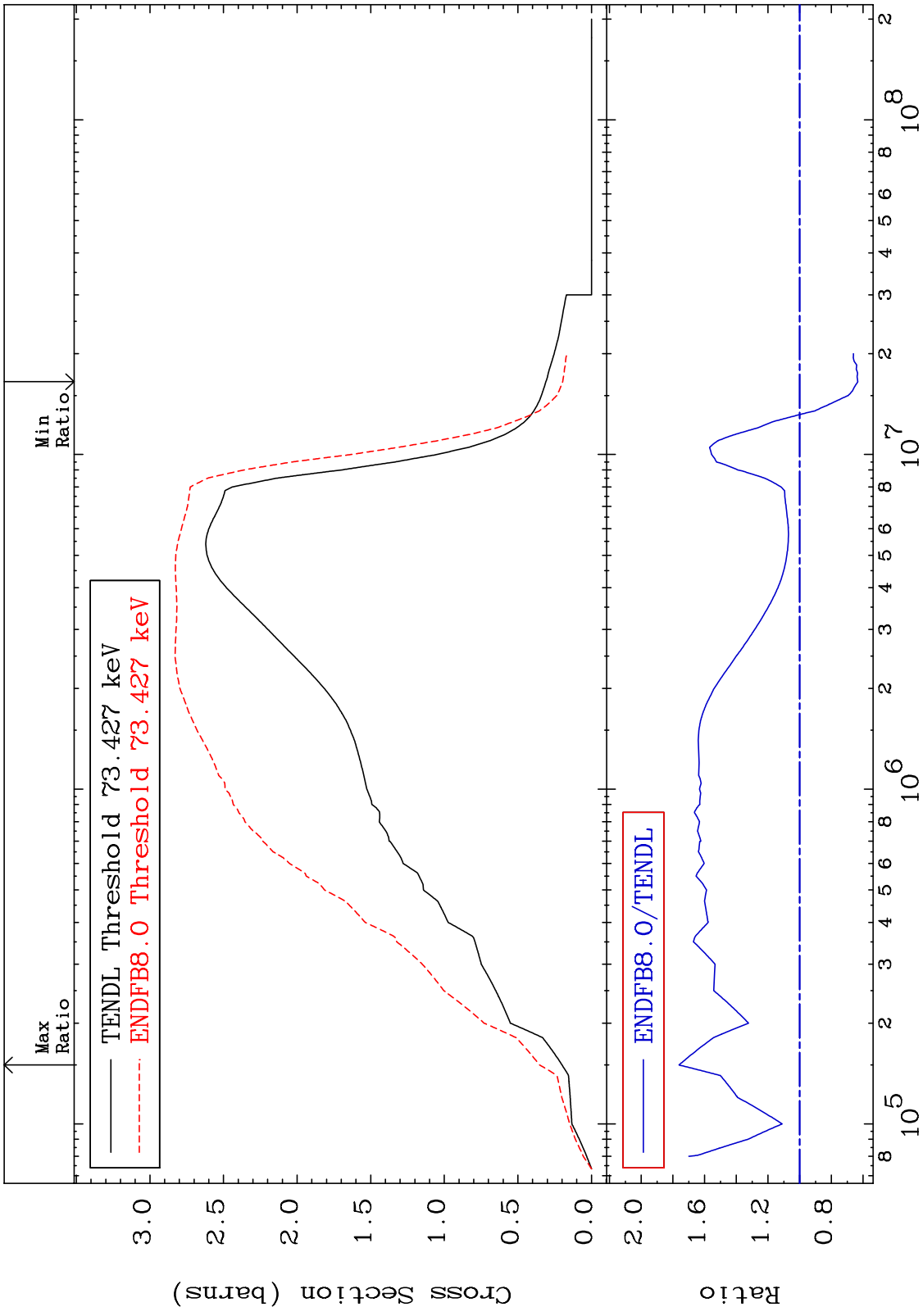


2

Incident Energy (eV)

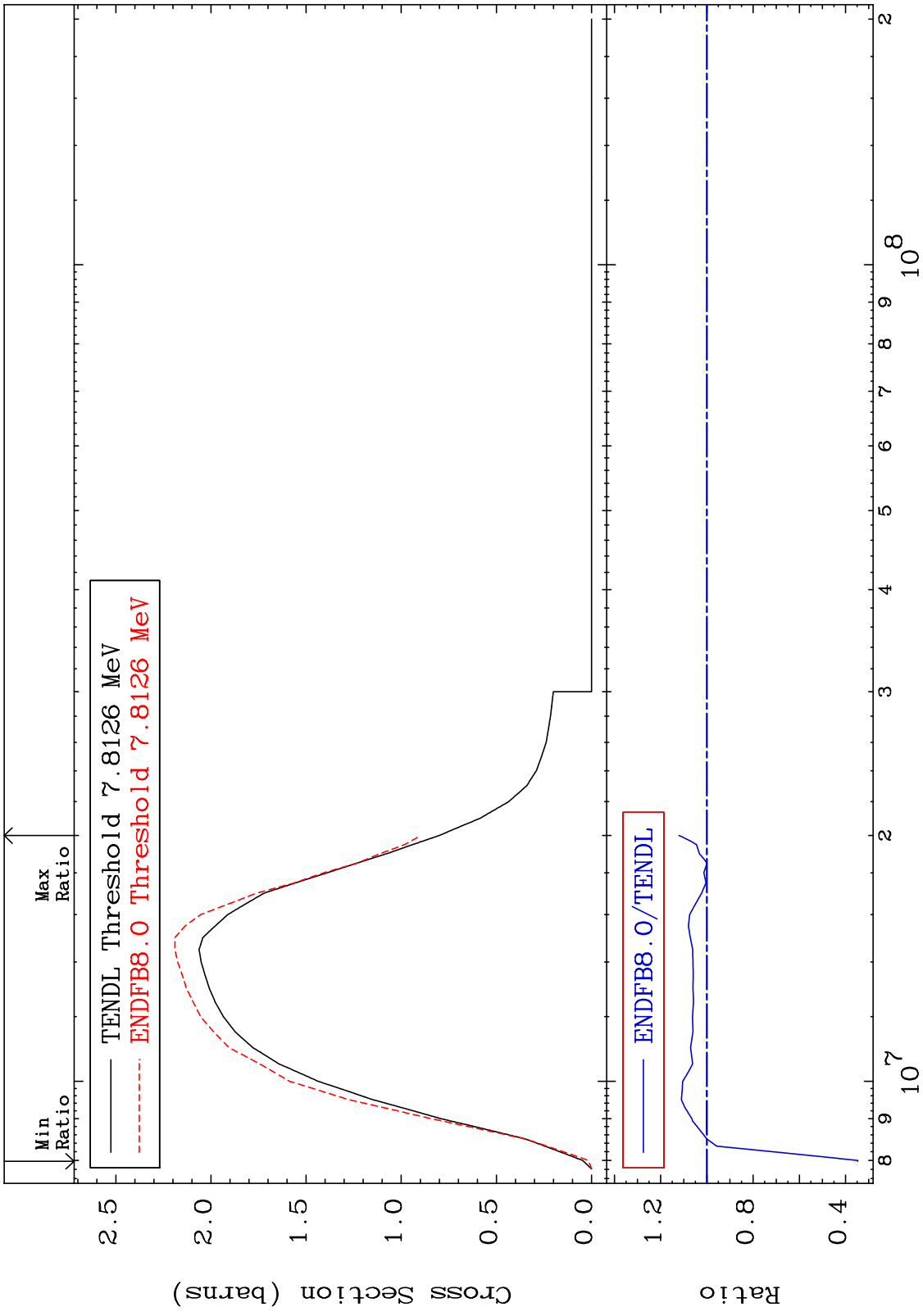
77-Ir-193

MAT 7731 Inelastic Cross Section 77-Ir-193 -36.68 To 76.13 %

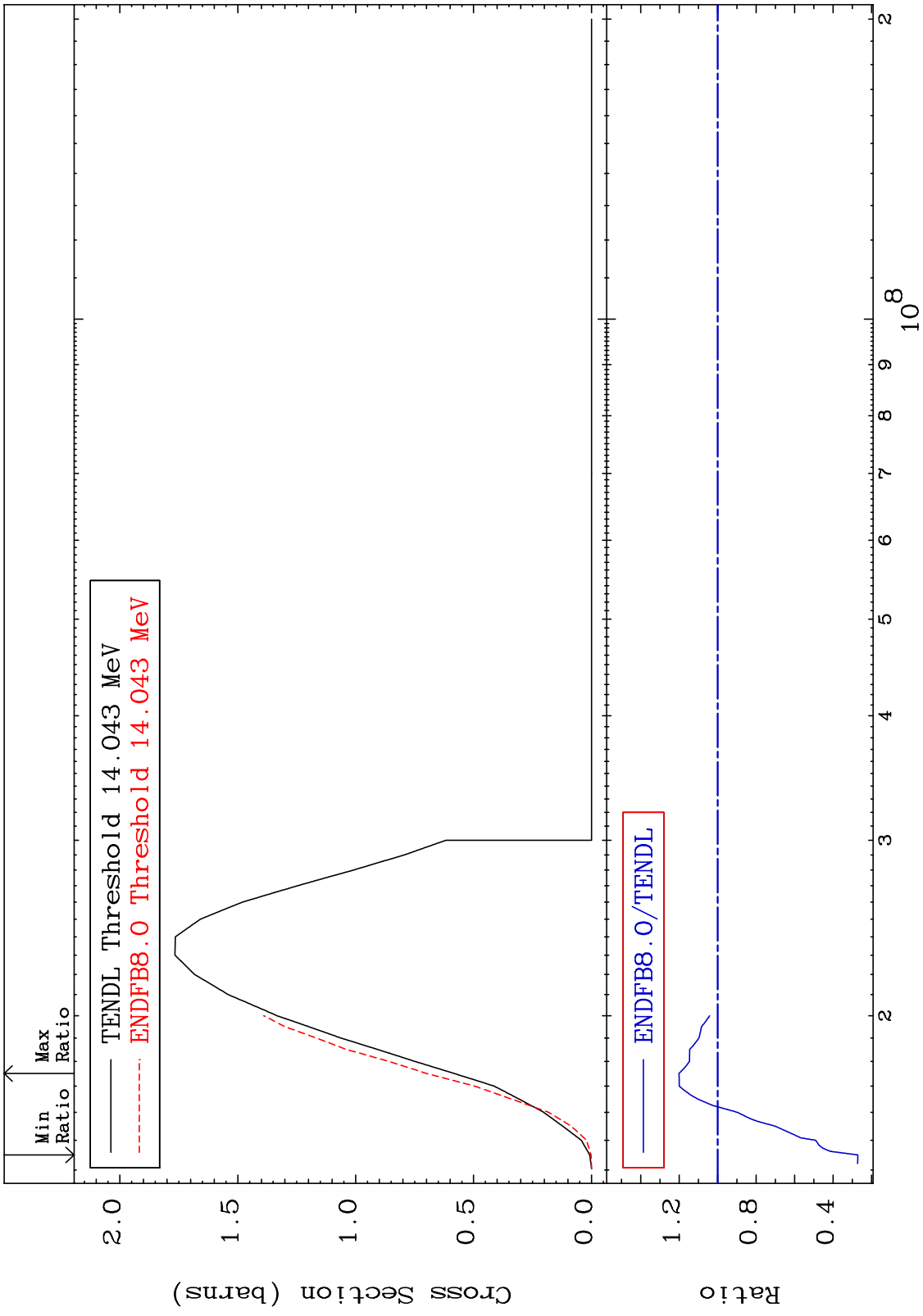


3 77-Ir-193

MAT 7731 (n,2n) 77-Ir-193
Cross Section -65.32 To 12.04 %



MAT 7731 (n,3n) Cross Section 77-Ir-193 -72.83 To 20.10 %



5 77-Ir-193

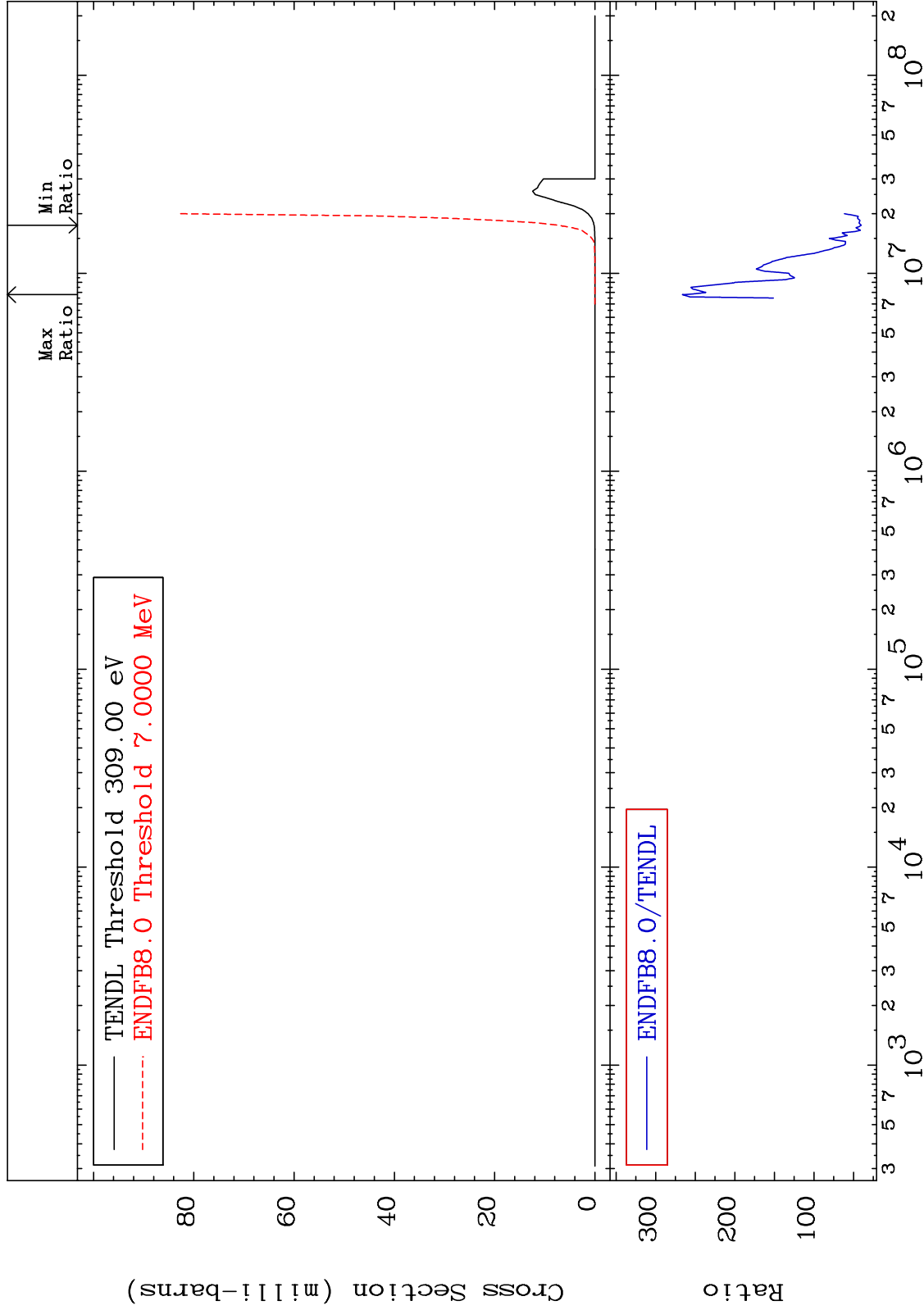
MAT 7731

(n, n') α

77-Ir-193

Cross Section

3918. To 9999. %



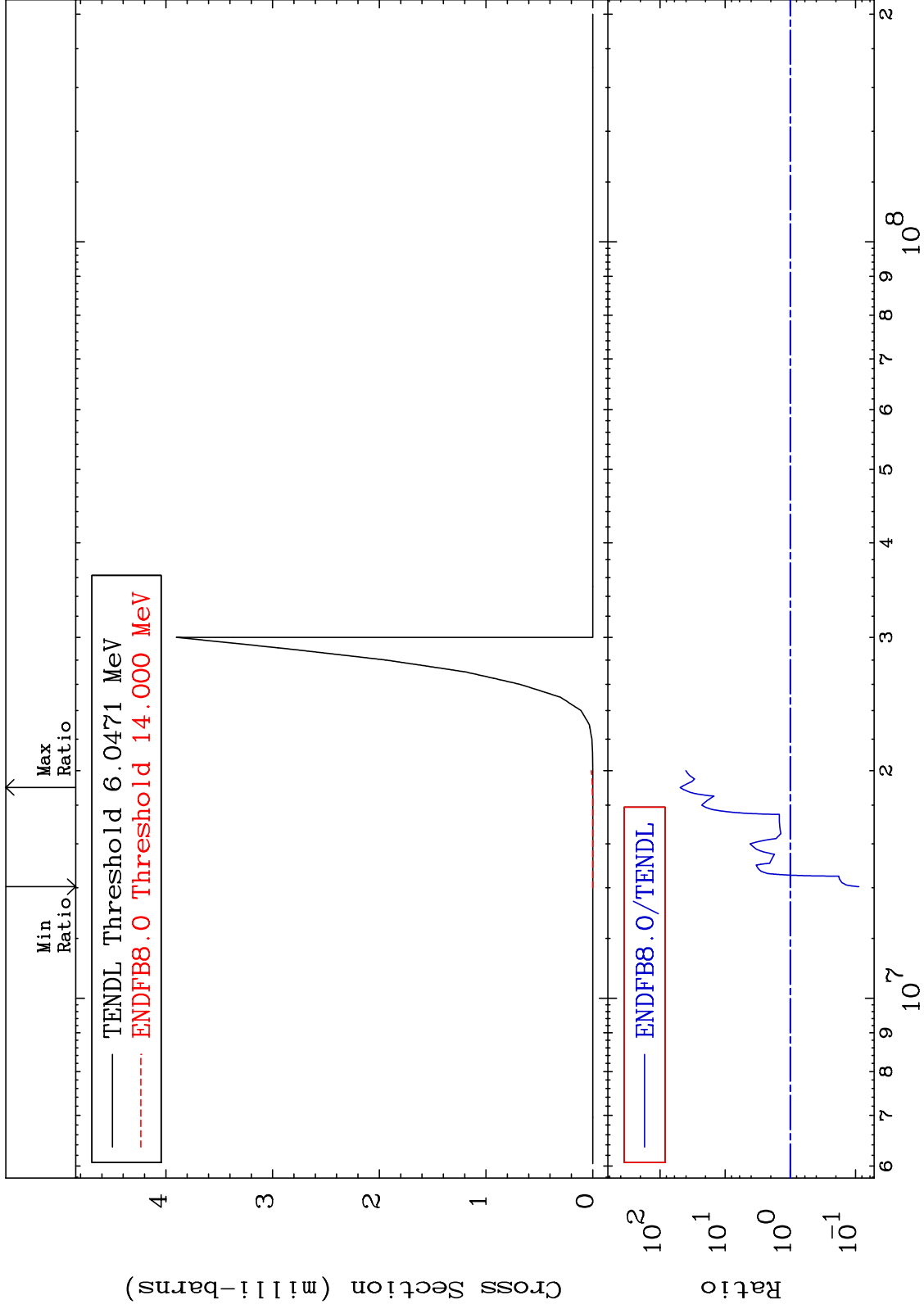
MAT 7731

(n,2n) α

77-Ir-193

Cross Section

-91.12 To 4798. %



7

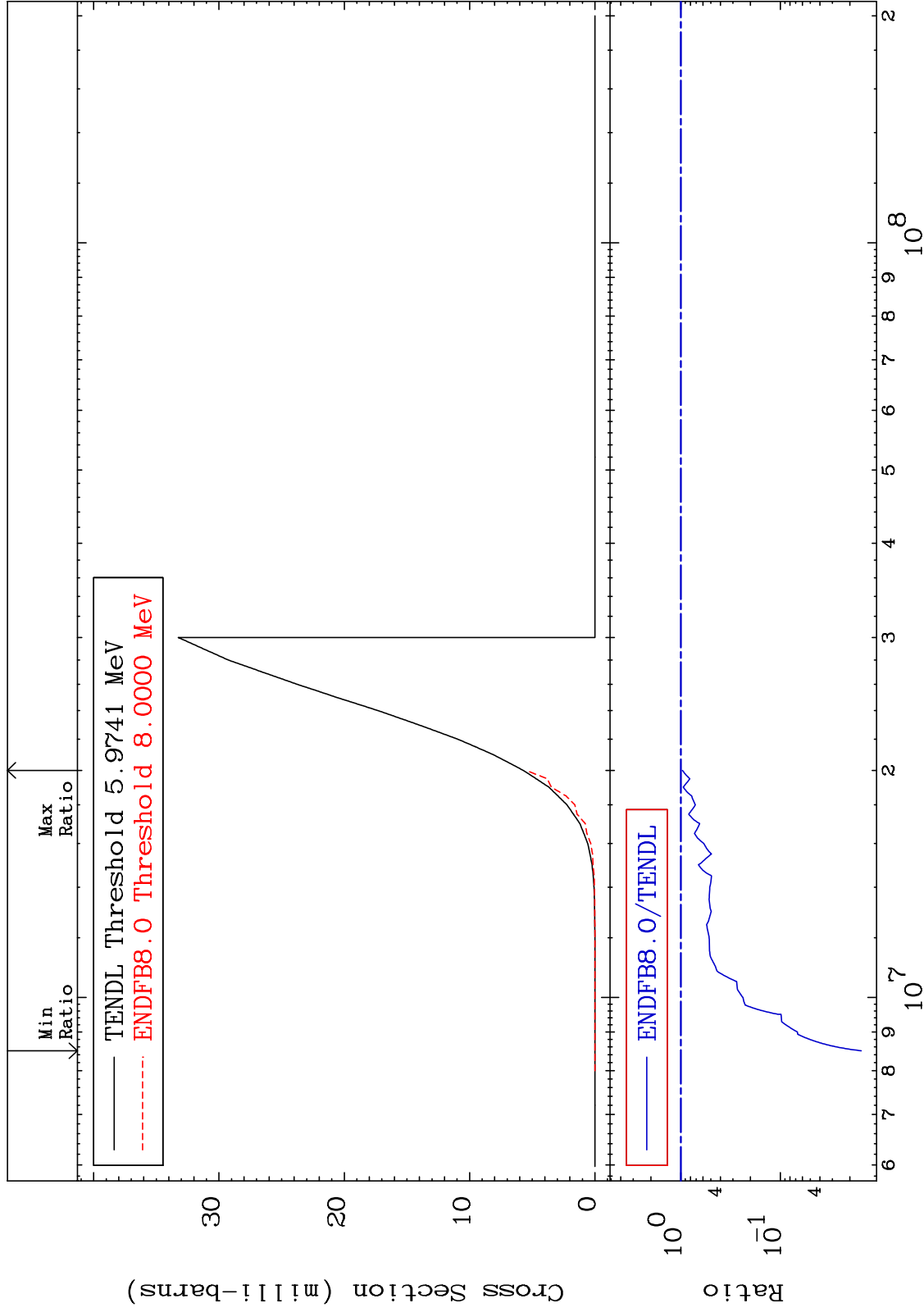
Incident Energy (eV)

77-Ir-193

MAT 7731

(n,n') p
Cross Section

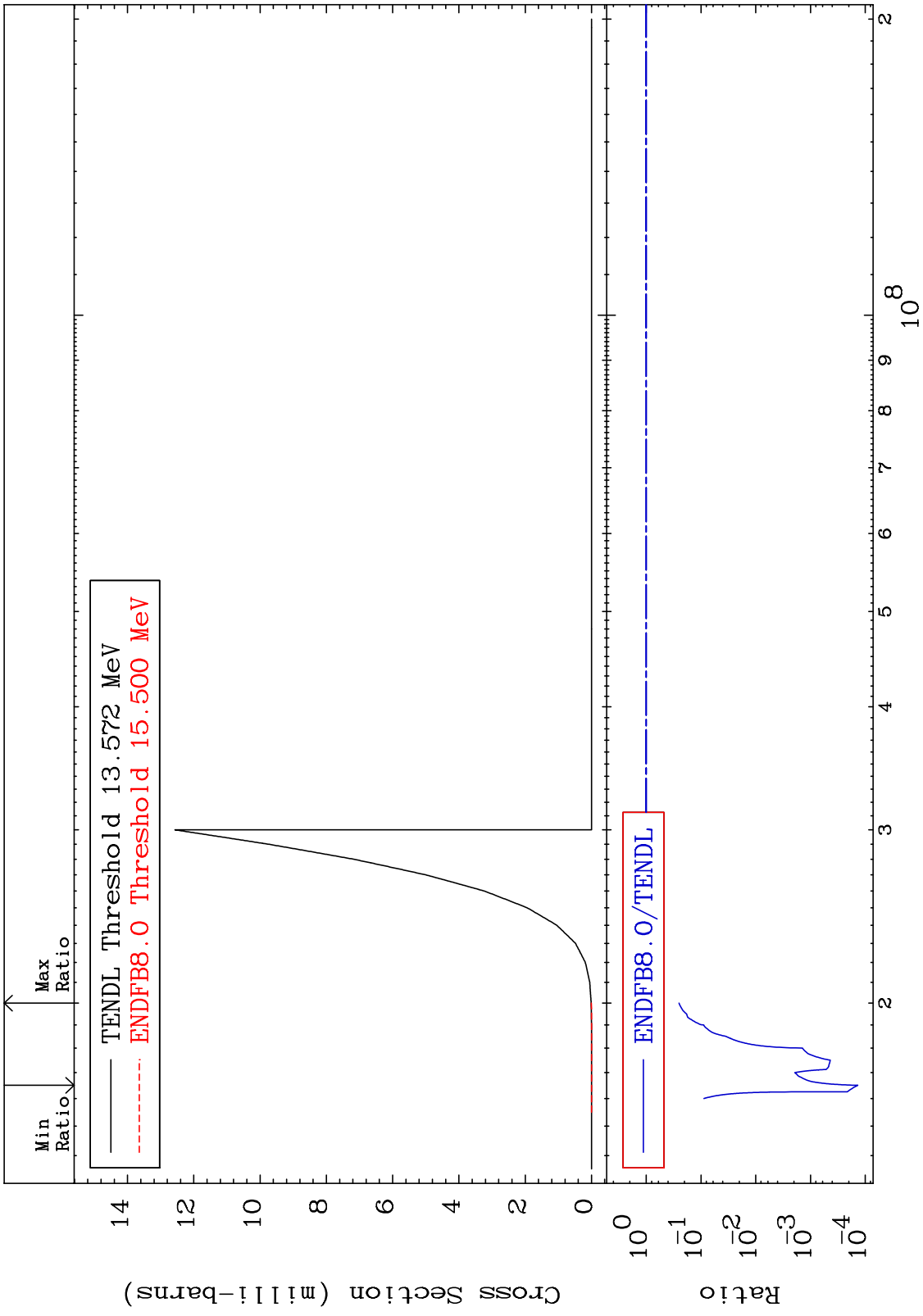
77-Ir-193
-98.46 To -3.841%



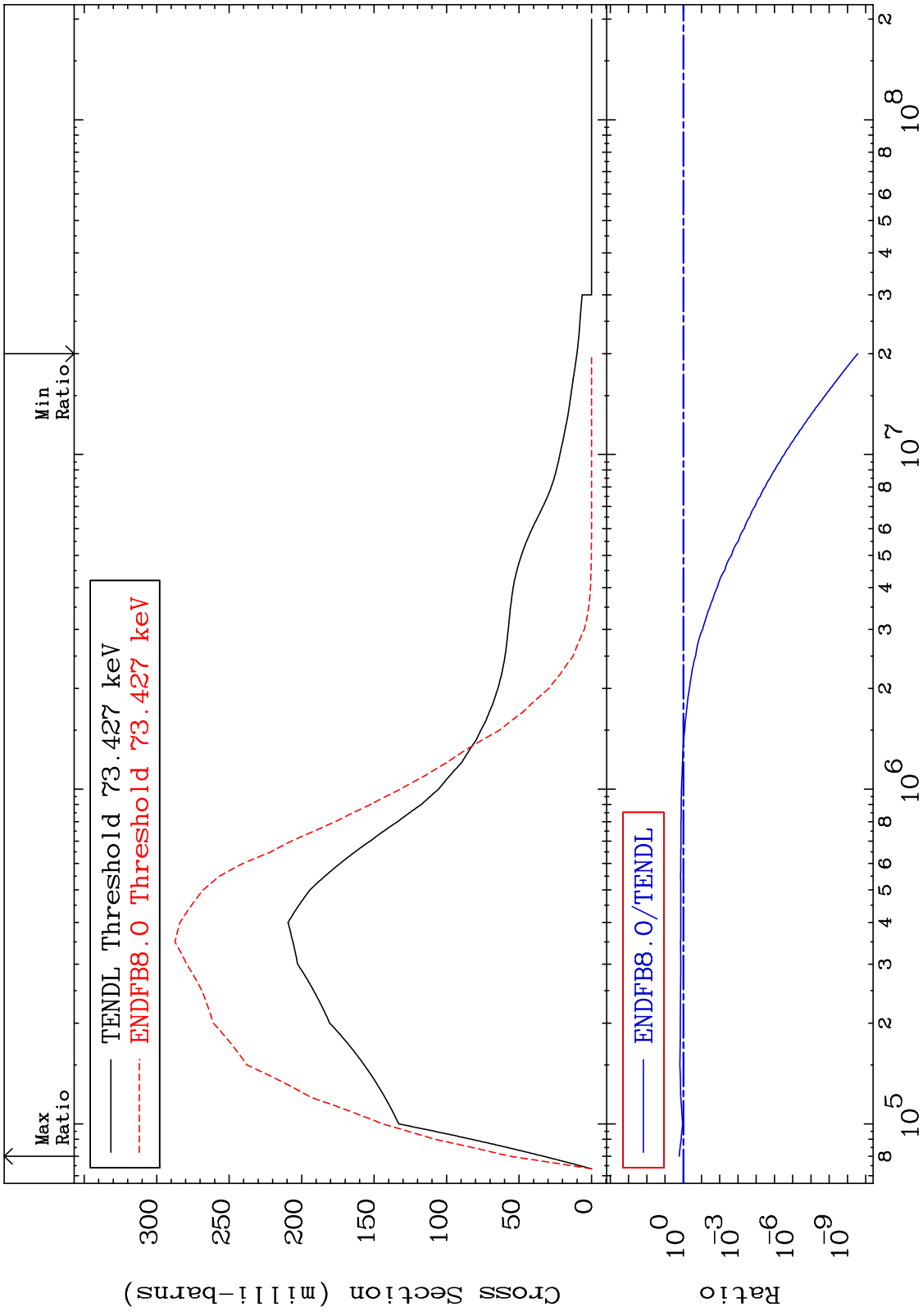
8

Incident Energy (eV)

77-Ir-193

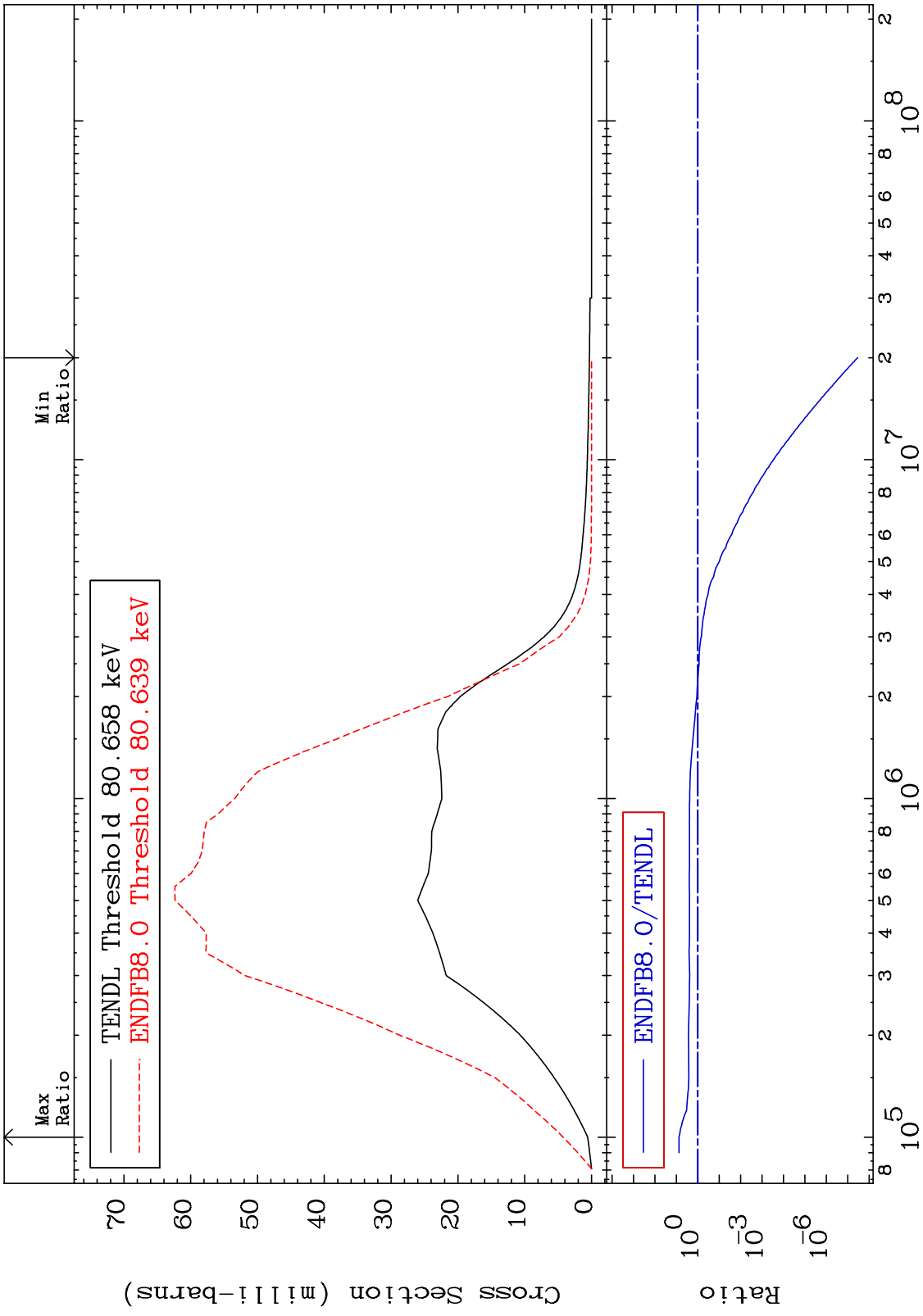


MAT 7731 MT= 51 (n,n') Level Cross Section 77-Ir-193 -100.0 To 69.91 %

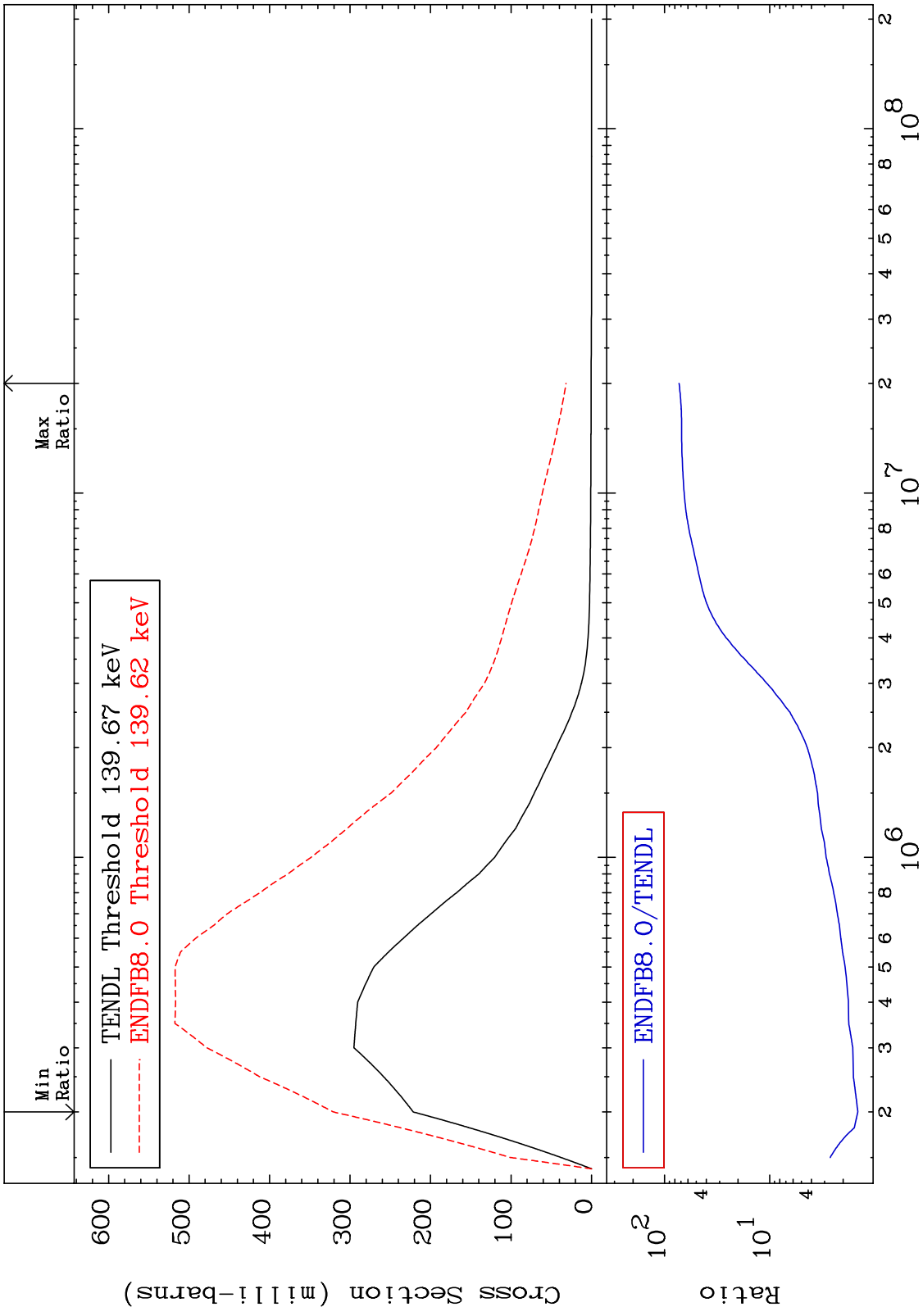


77-Ir-193

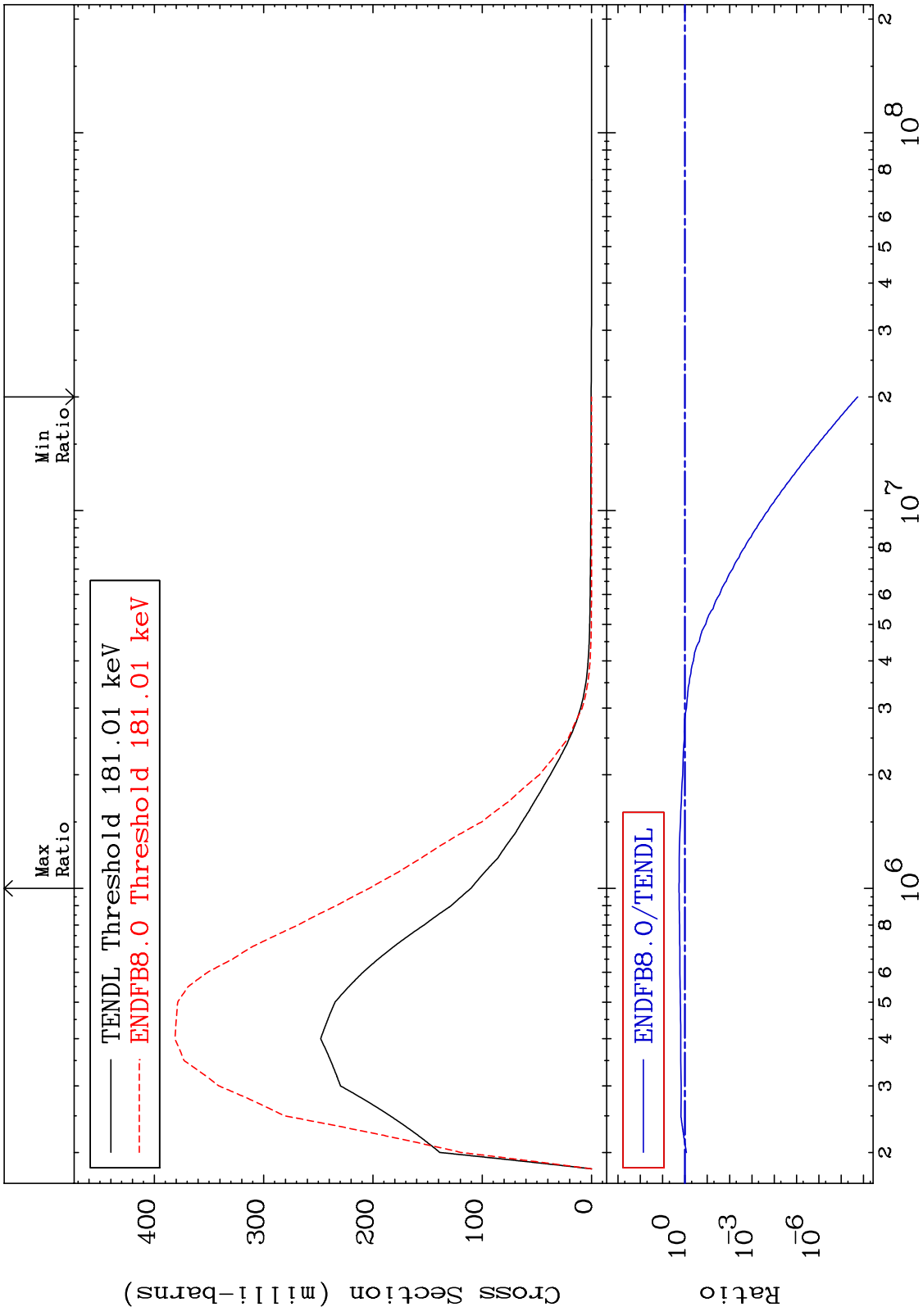
MAT 7731 MT= 52 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 642.5 %



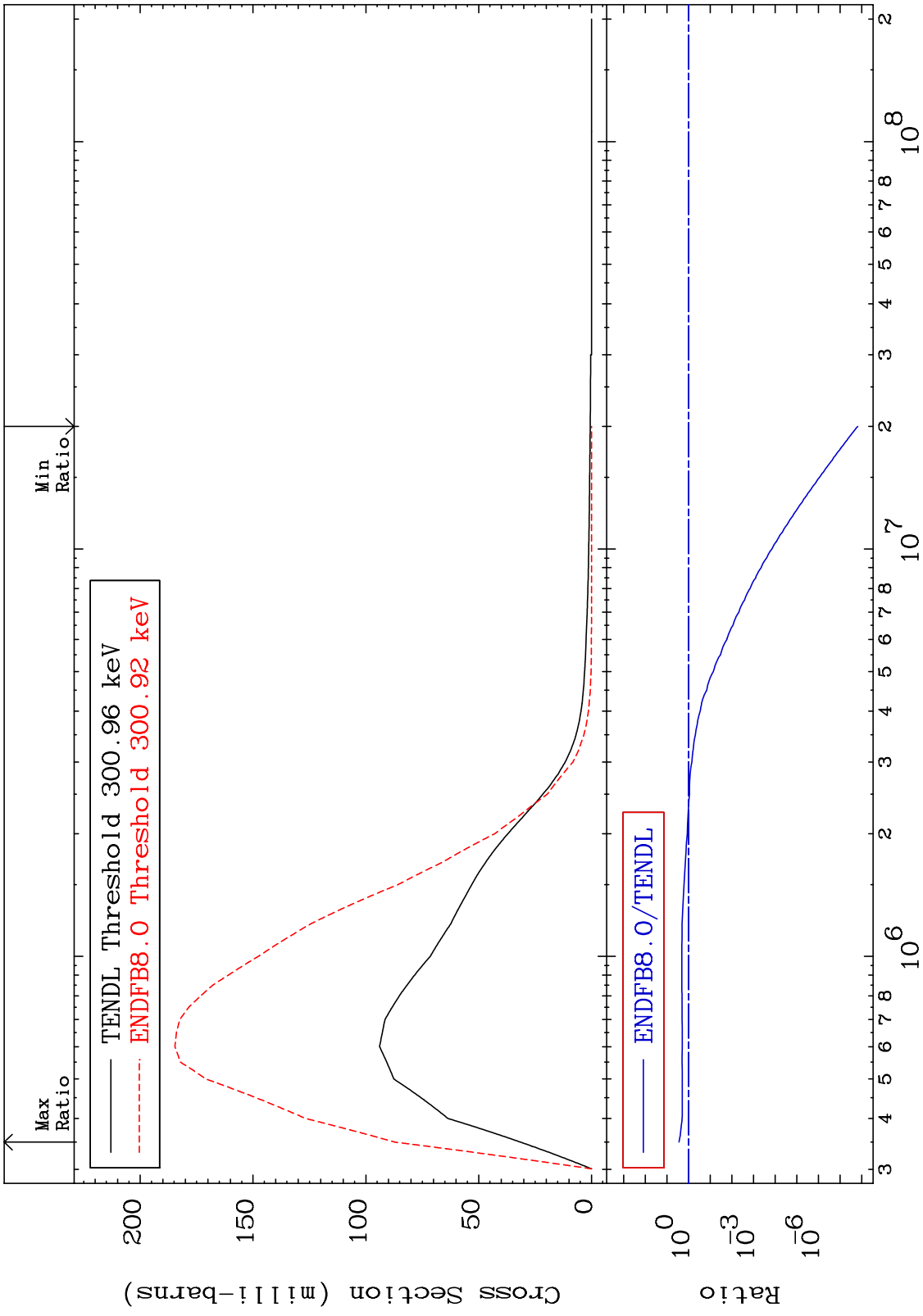
MAT 7731 MT= 53 (n,n') Level Cross Section 77-Ir-193 44.83 To 7186. %



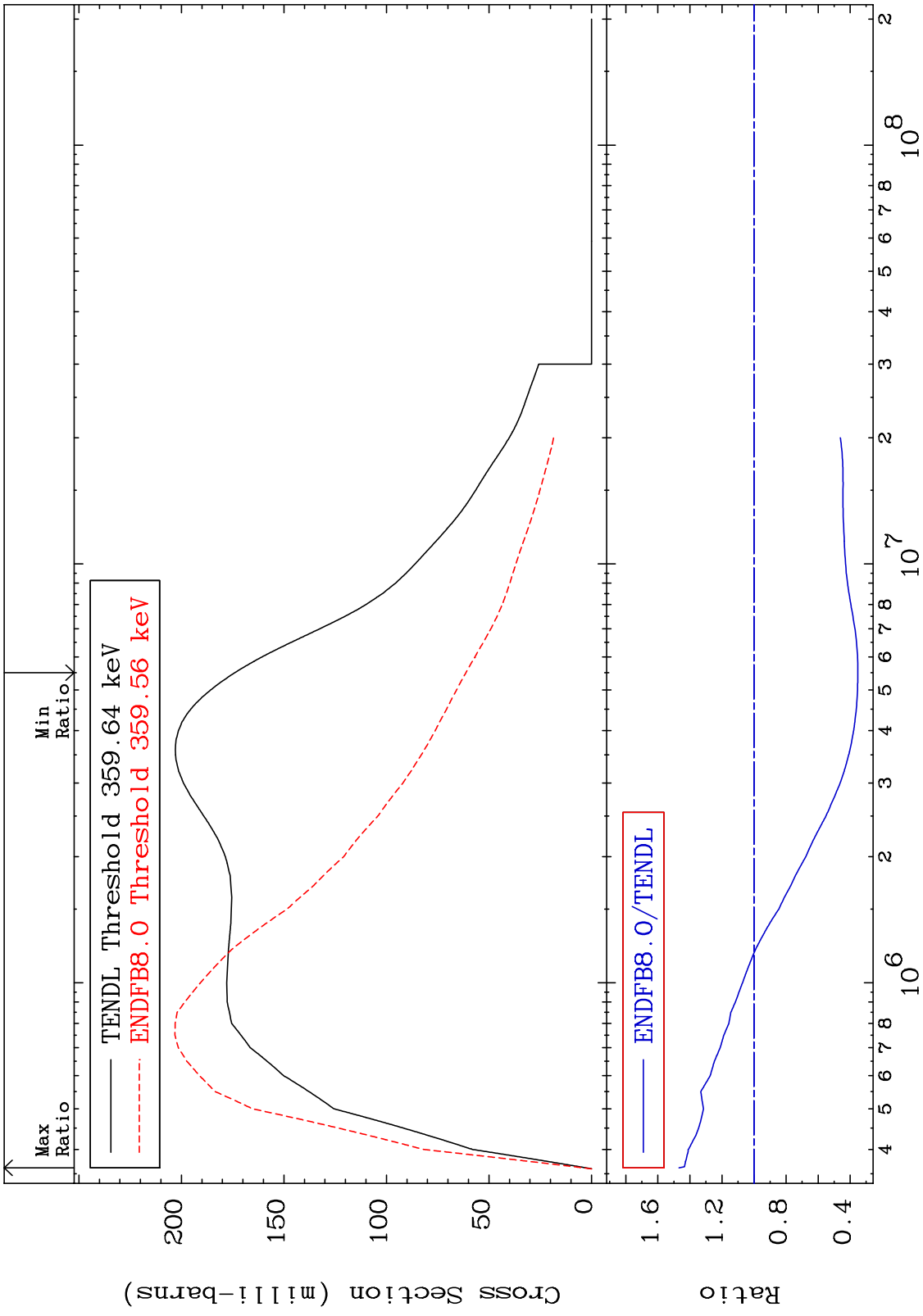
MAT 7731 MT= 54 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 84.29 %



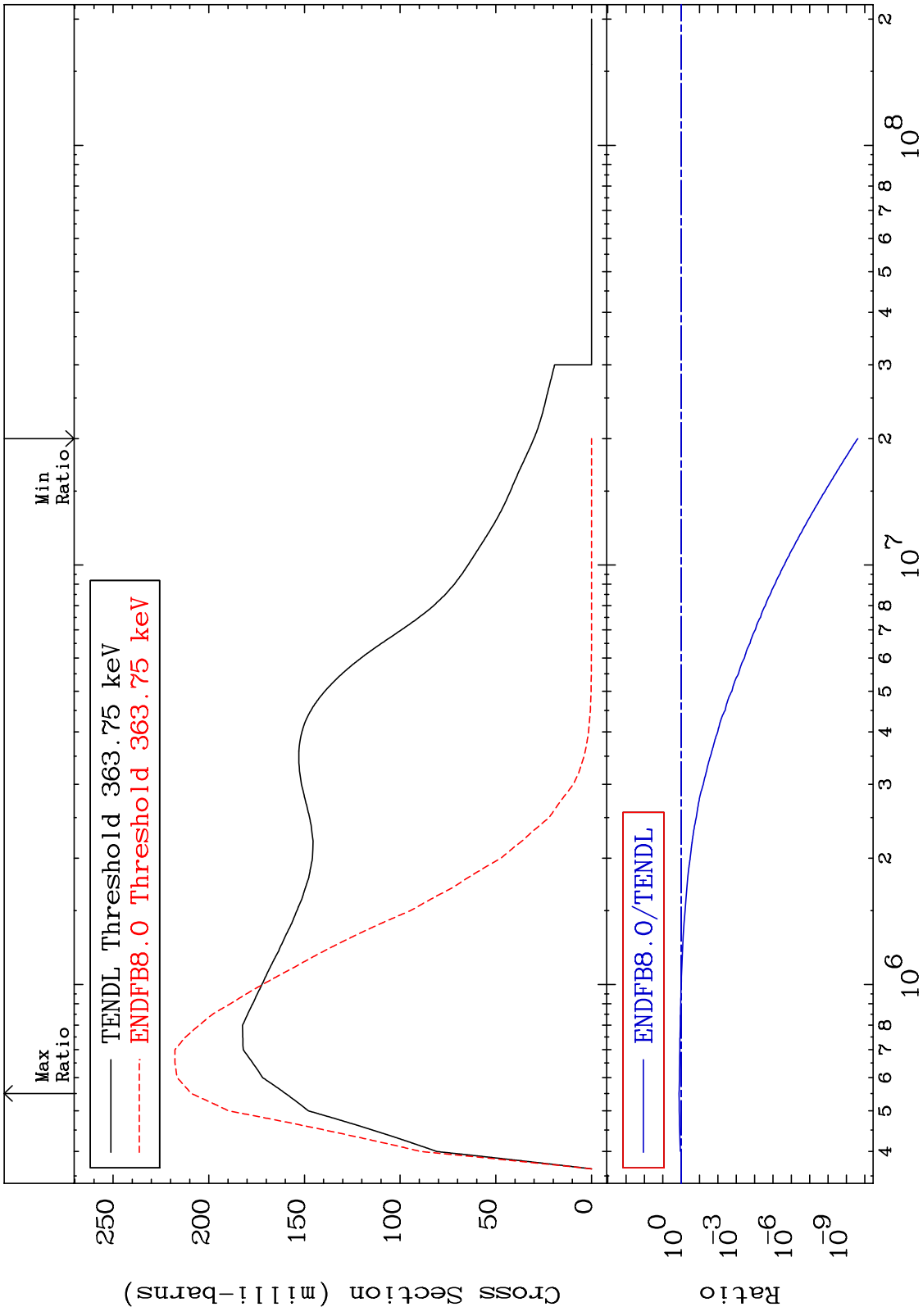
MAT 7731 MT= 55 (n,n') Level Cross Section -100.0 To 176.9 % 77-Ir-193



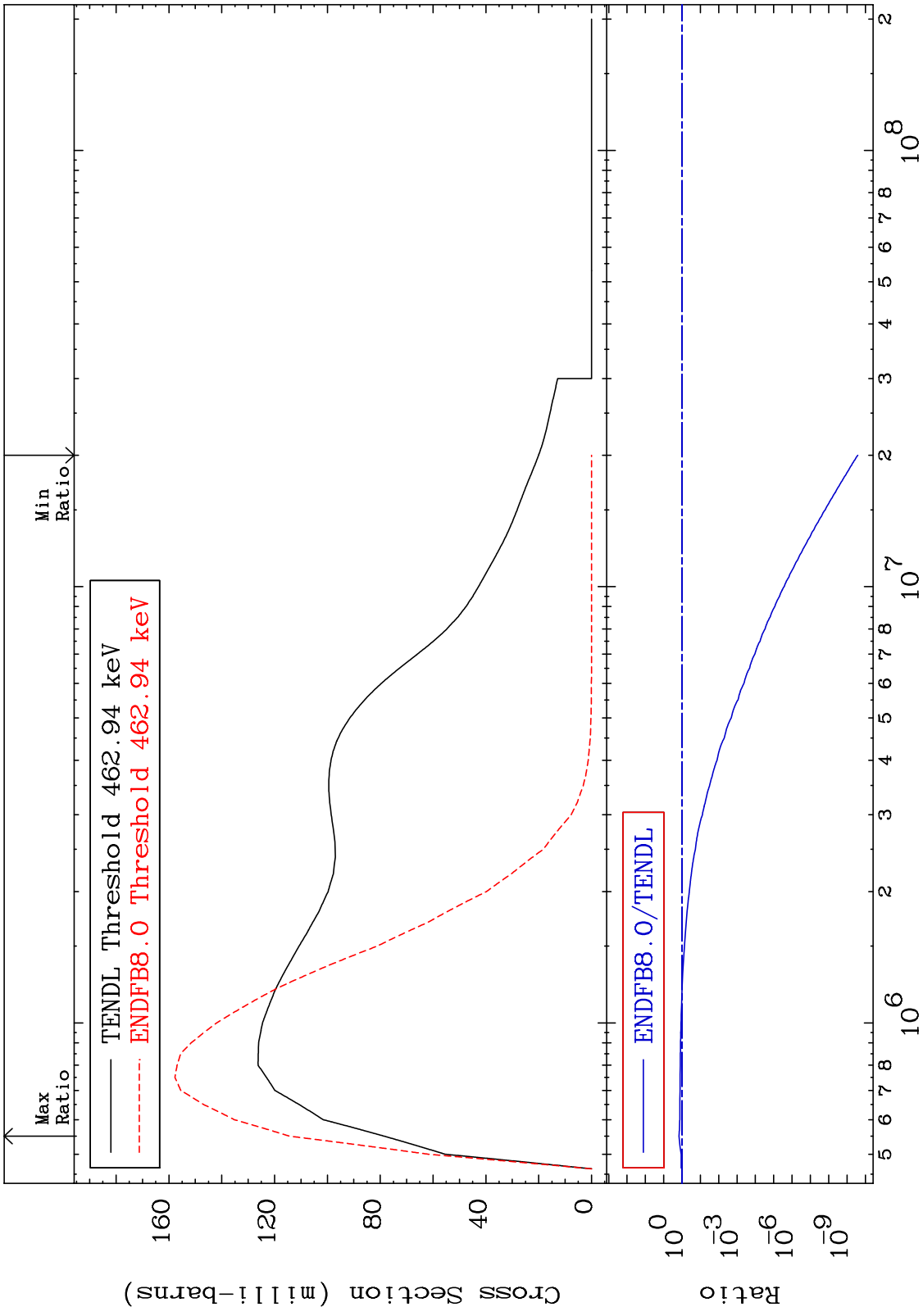
MAT 7731 MT= 56 (n,n') Level 77-Ir-193
 Cross Section -64.78 To 46.78 %



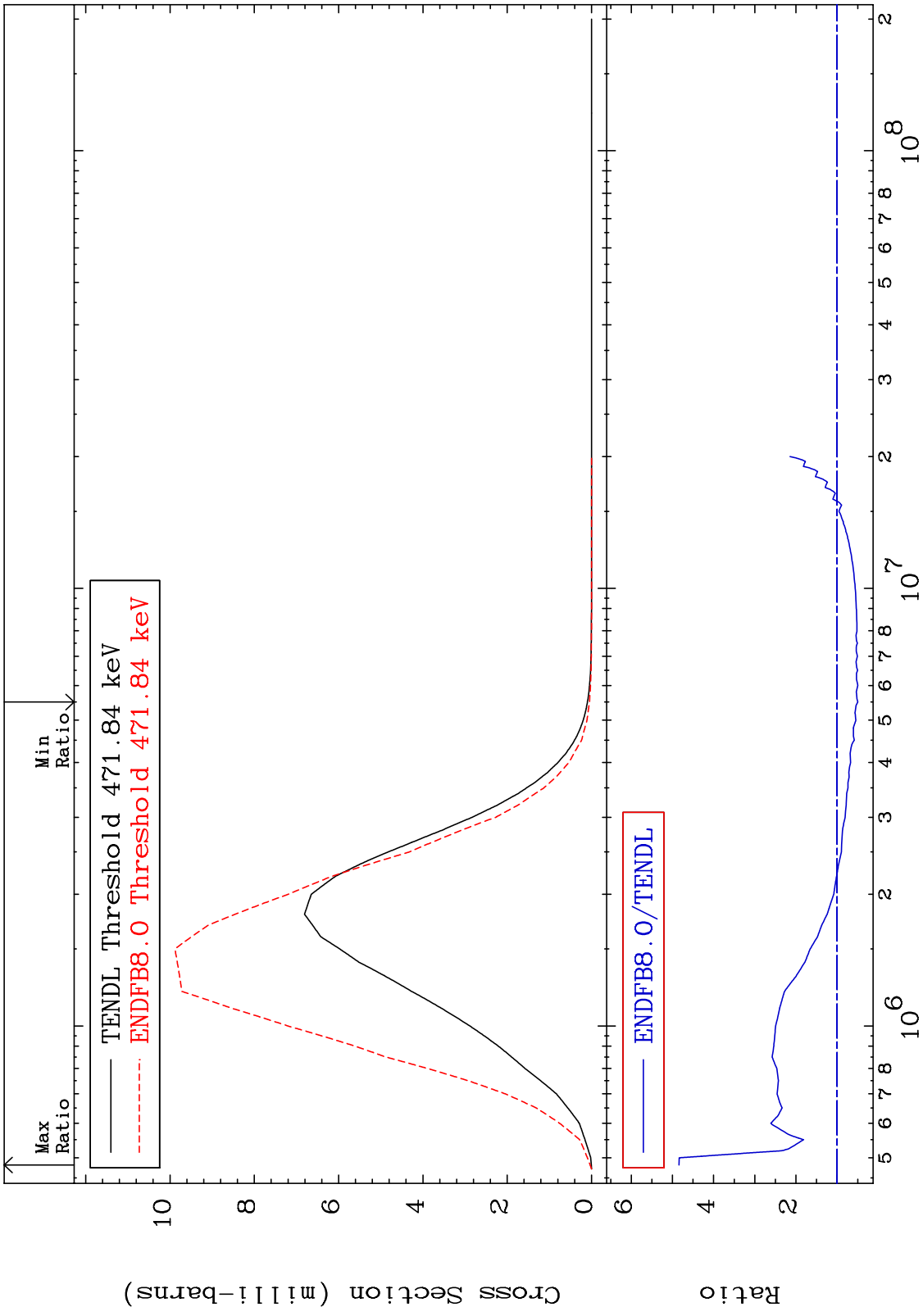
MAT 7731 MT= 57 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 30.85 %



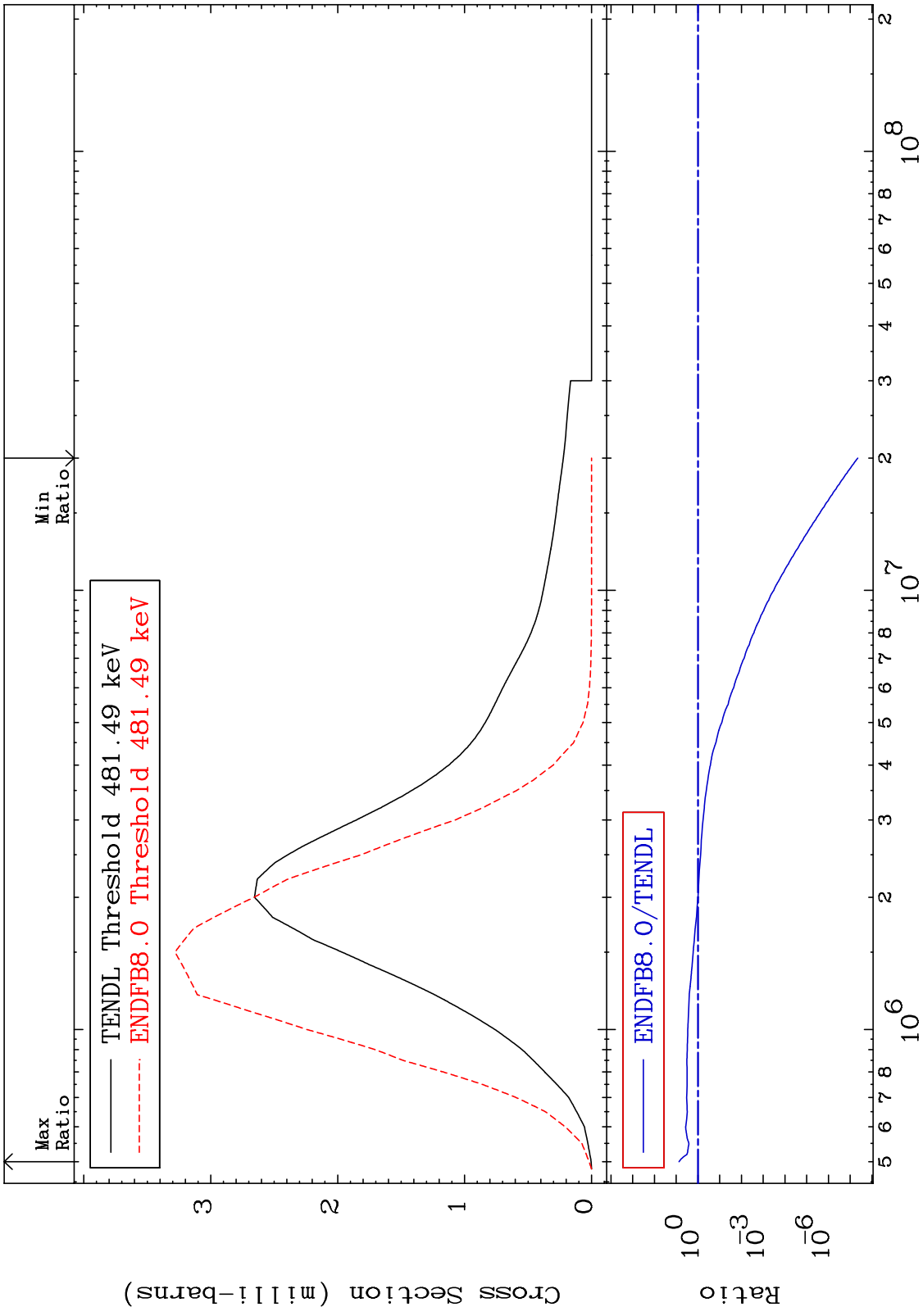
MAT 7731 MT= 58 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 45.63 %



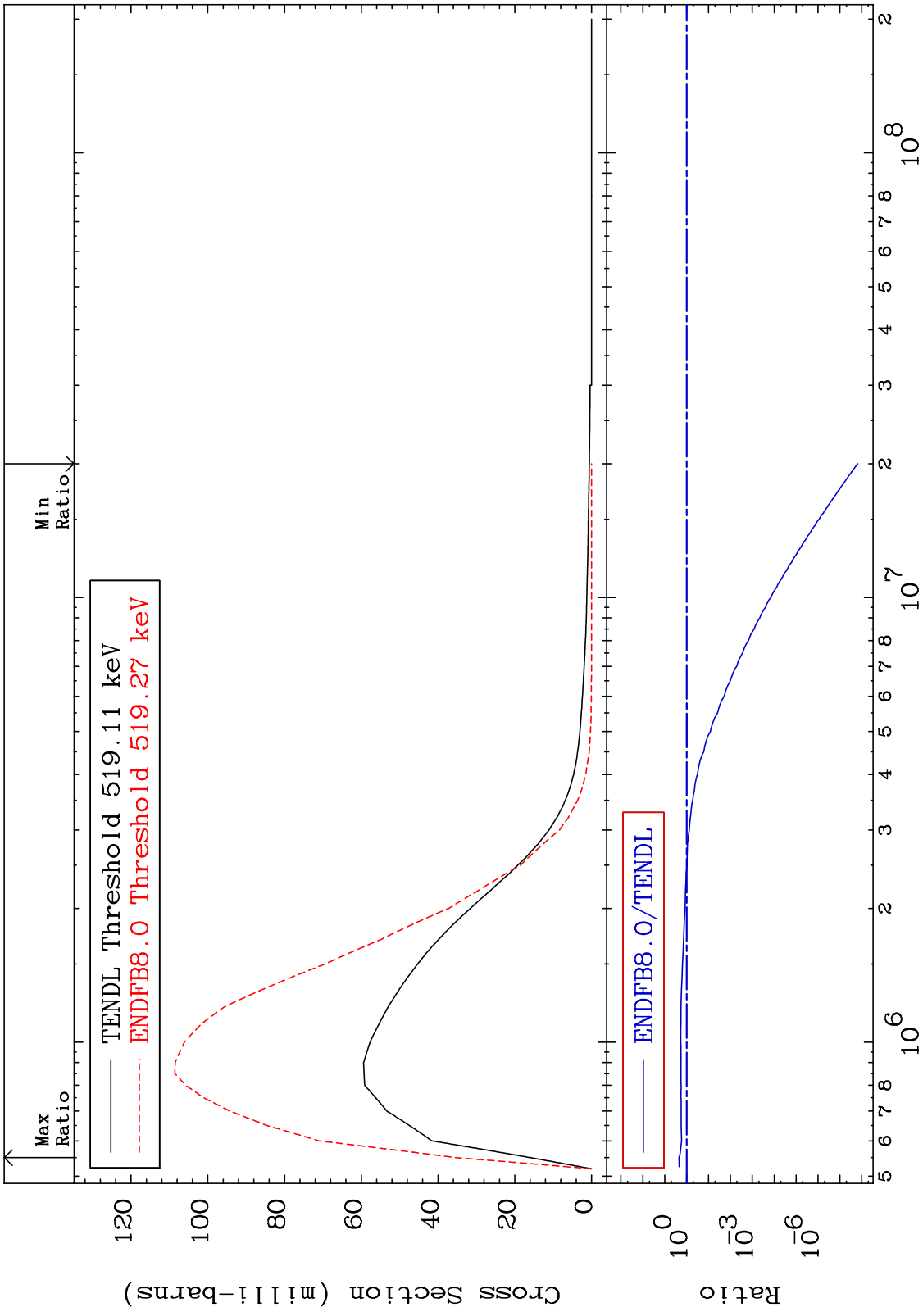
MAT 7731 MT= 59 (n,n') Level 77-Ir-193
 Cross Section -50.37 To 383.9 %



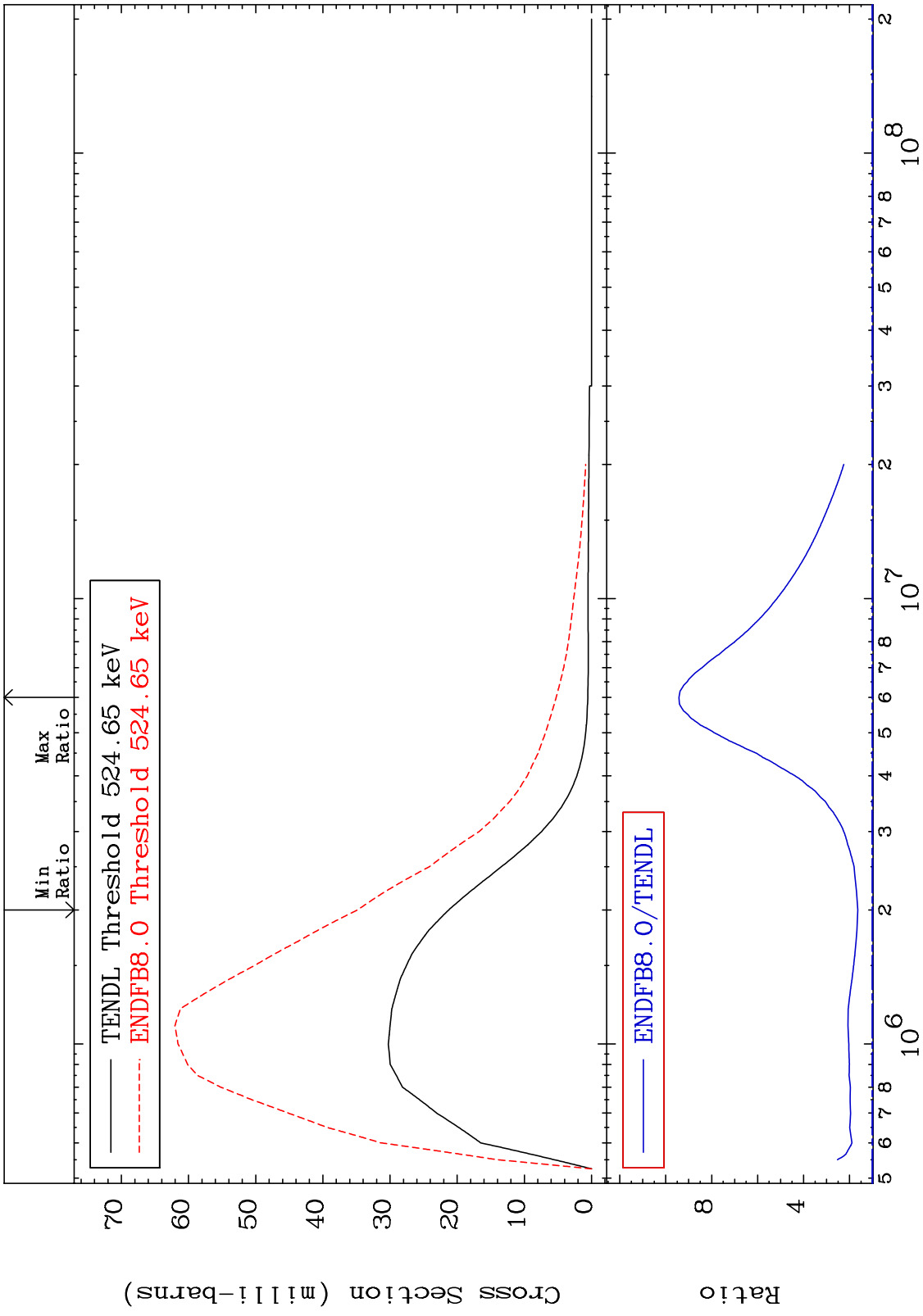
MAT 7731 MT= 60 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 641.2 %



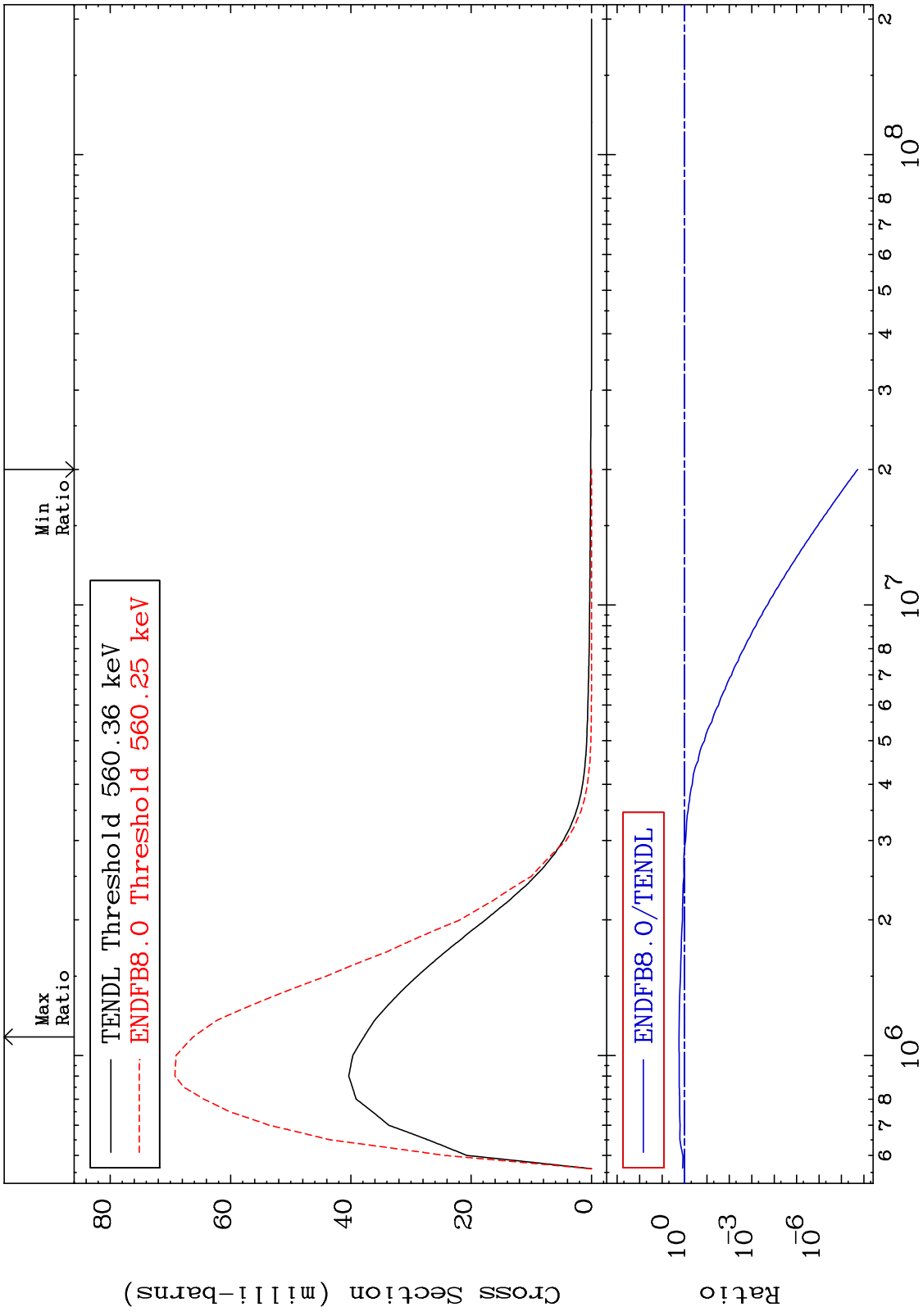
MAT 7731 MT= 61 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 121.7 %



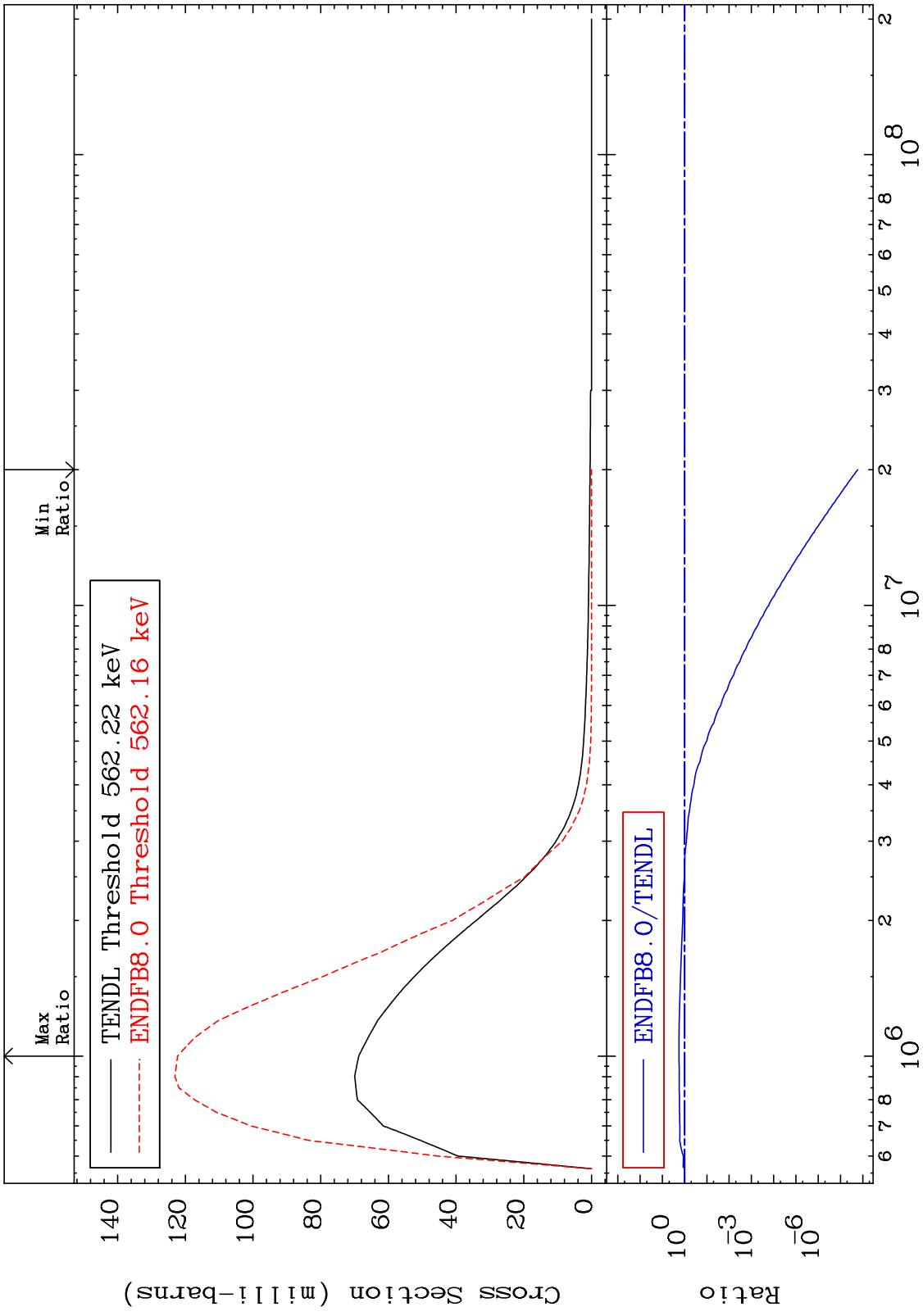
MAT 7731 MT= 62 (n,n') Level Cross Section 77-Ir-193 63.86 To 841.9 %



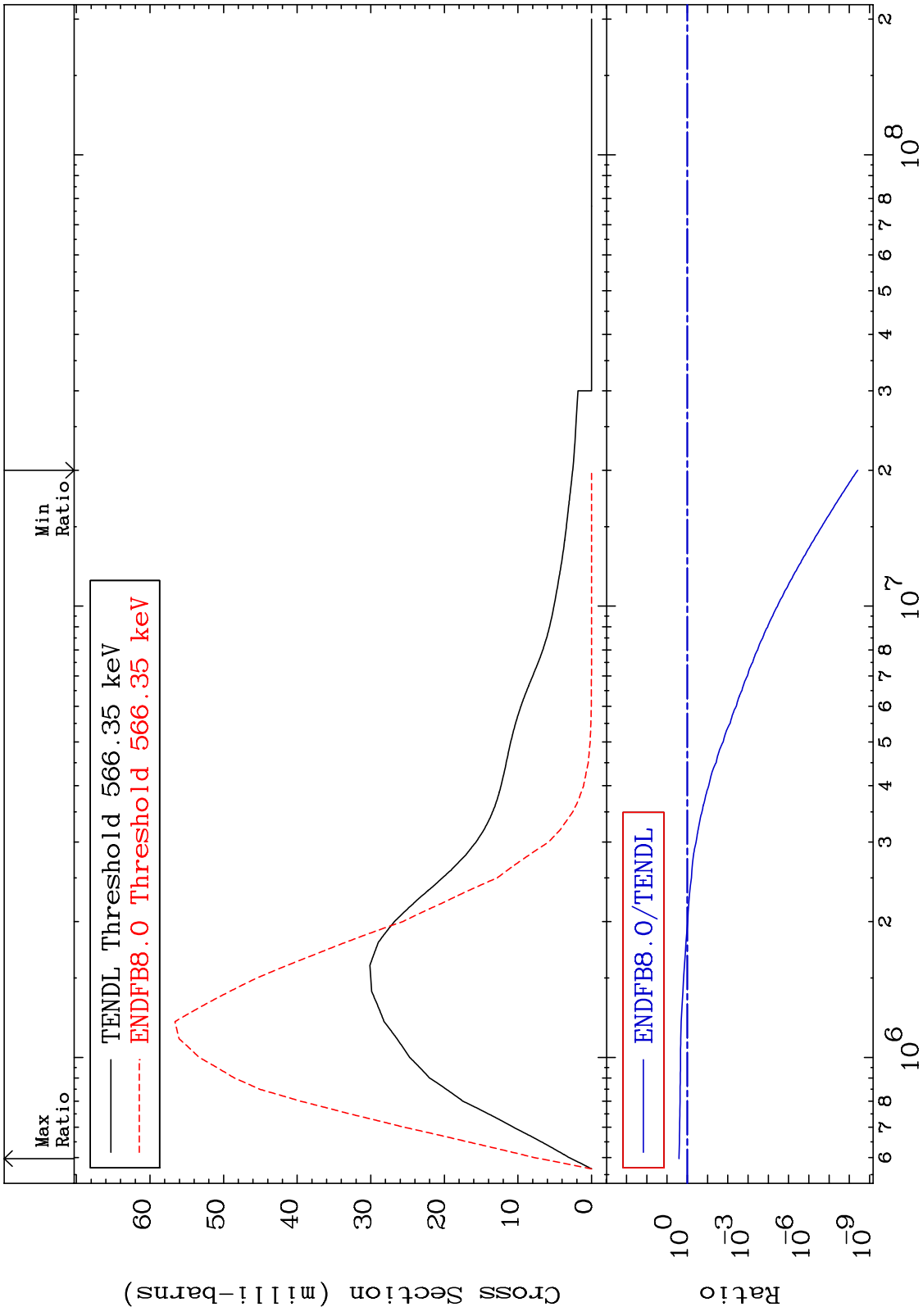
MAT 7731 MT= 63 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 75.00 %



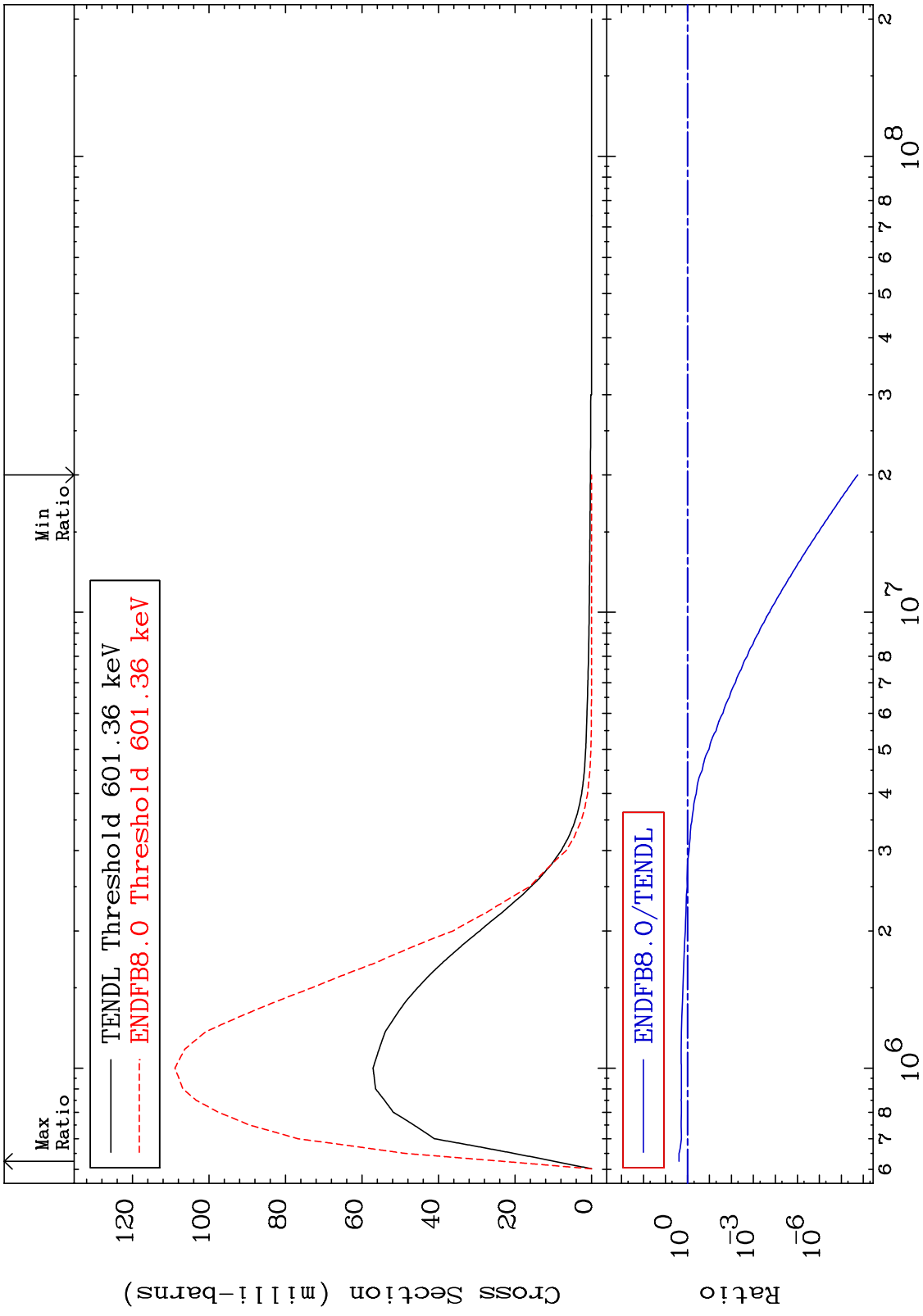
MAT 7731 MT= 64 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 77.81 %



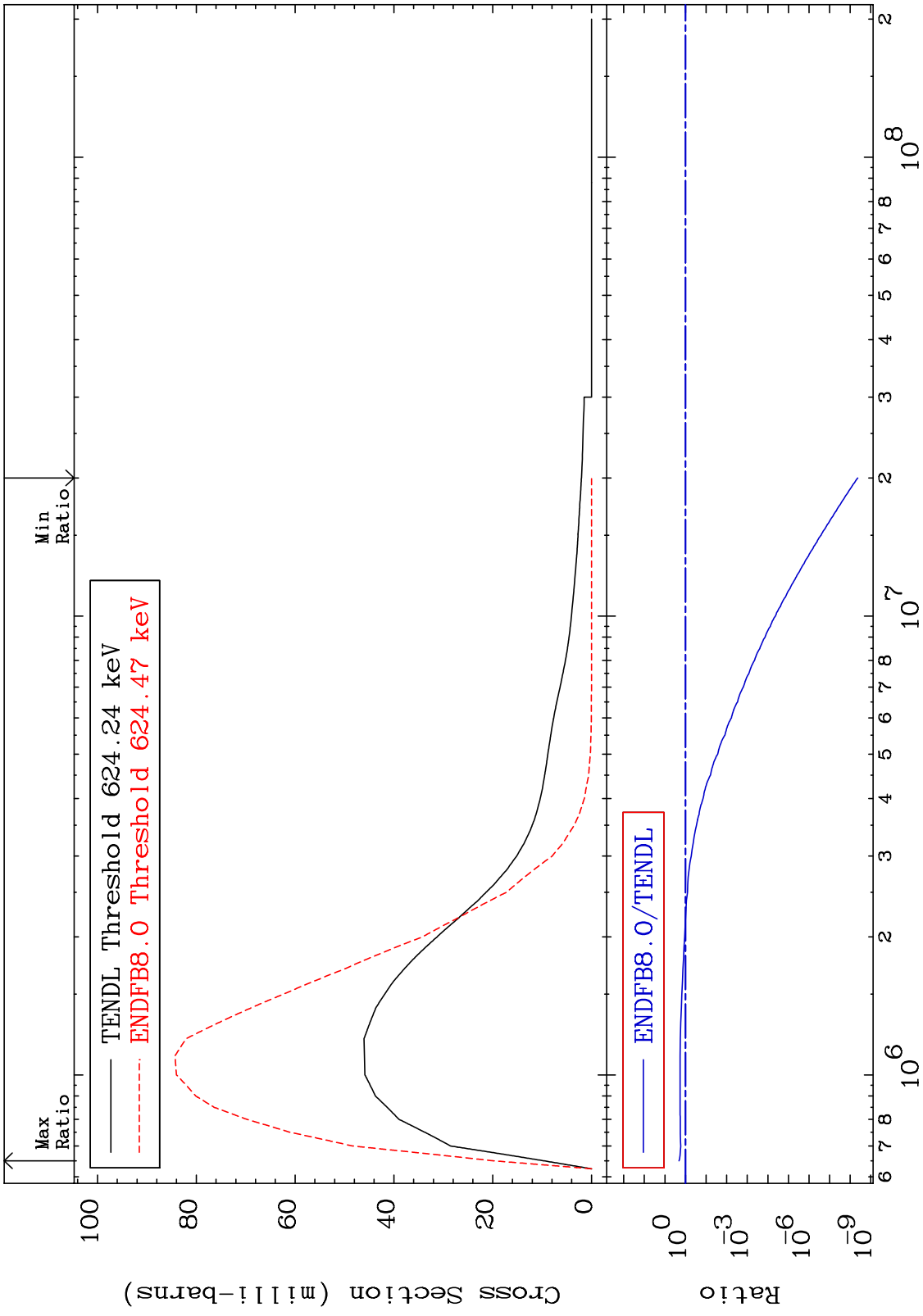
MAT 7731 MT= 65 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 155.6 %



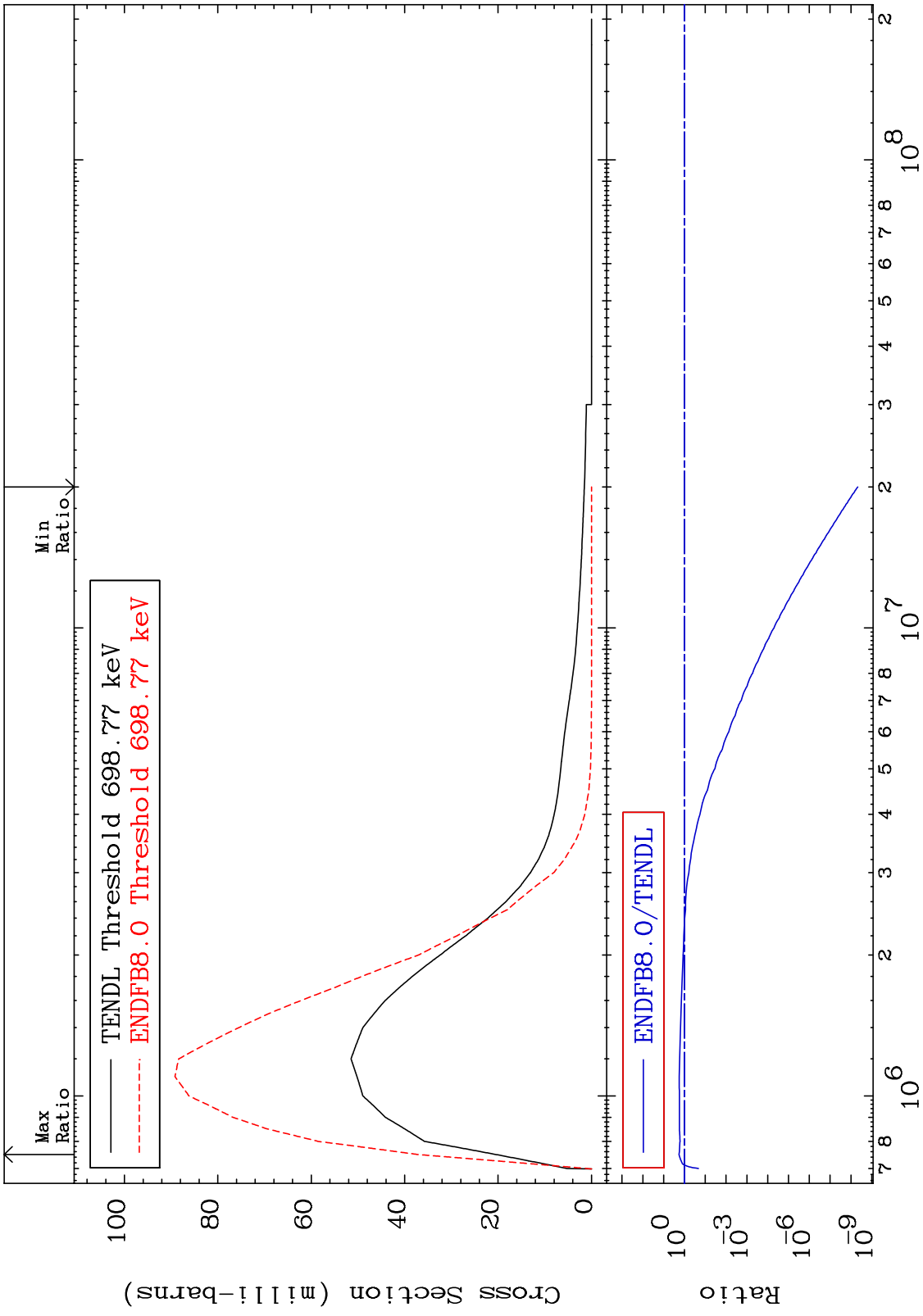
MAT 7731 MT= 66 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 140.9 %



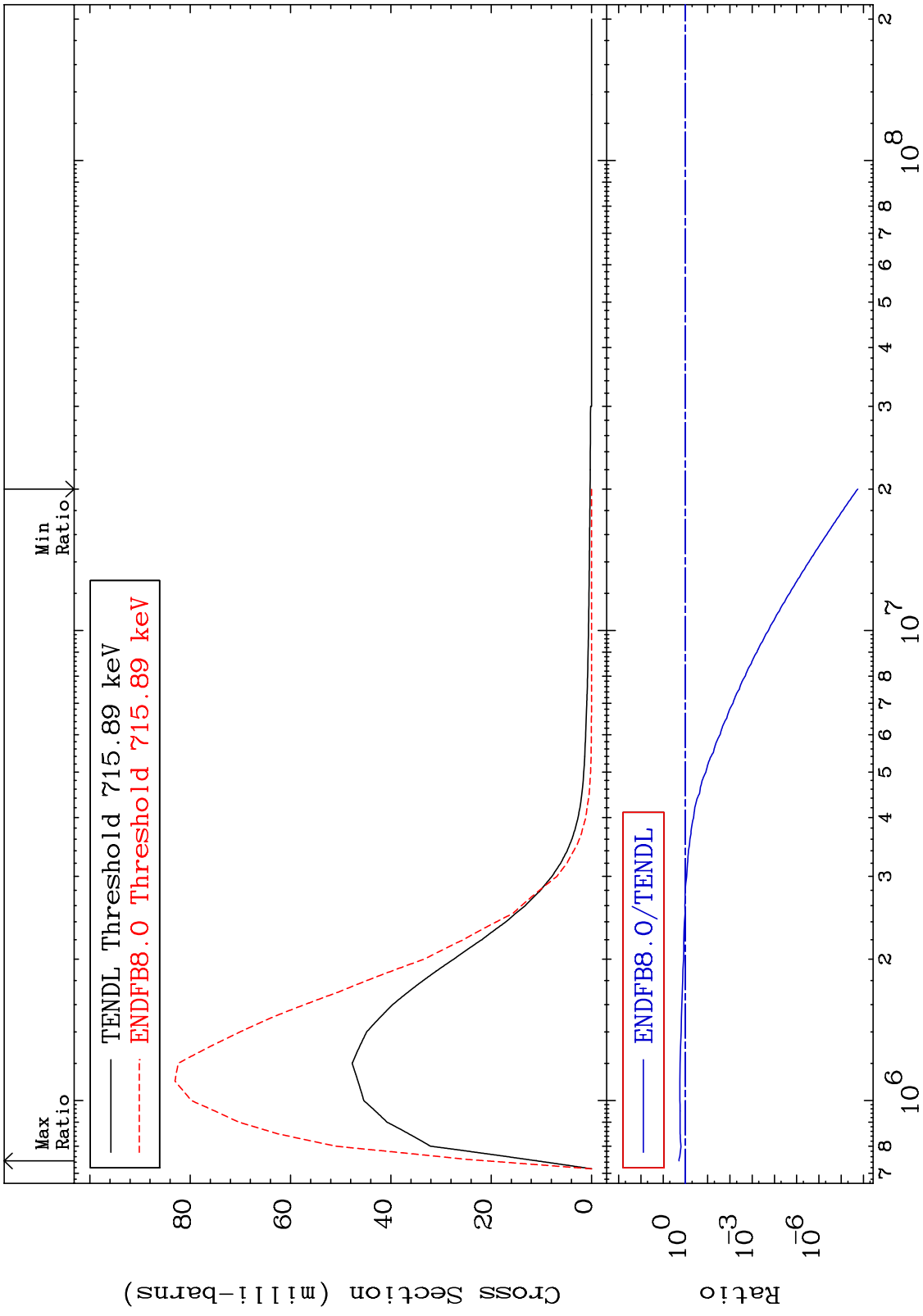
MAT 7731 MT= 67 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 105.5 %



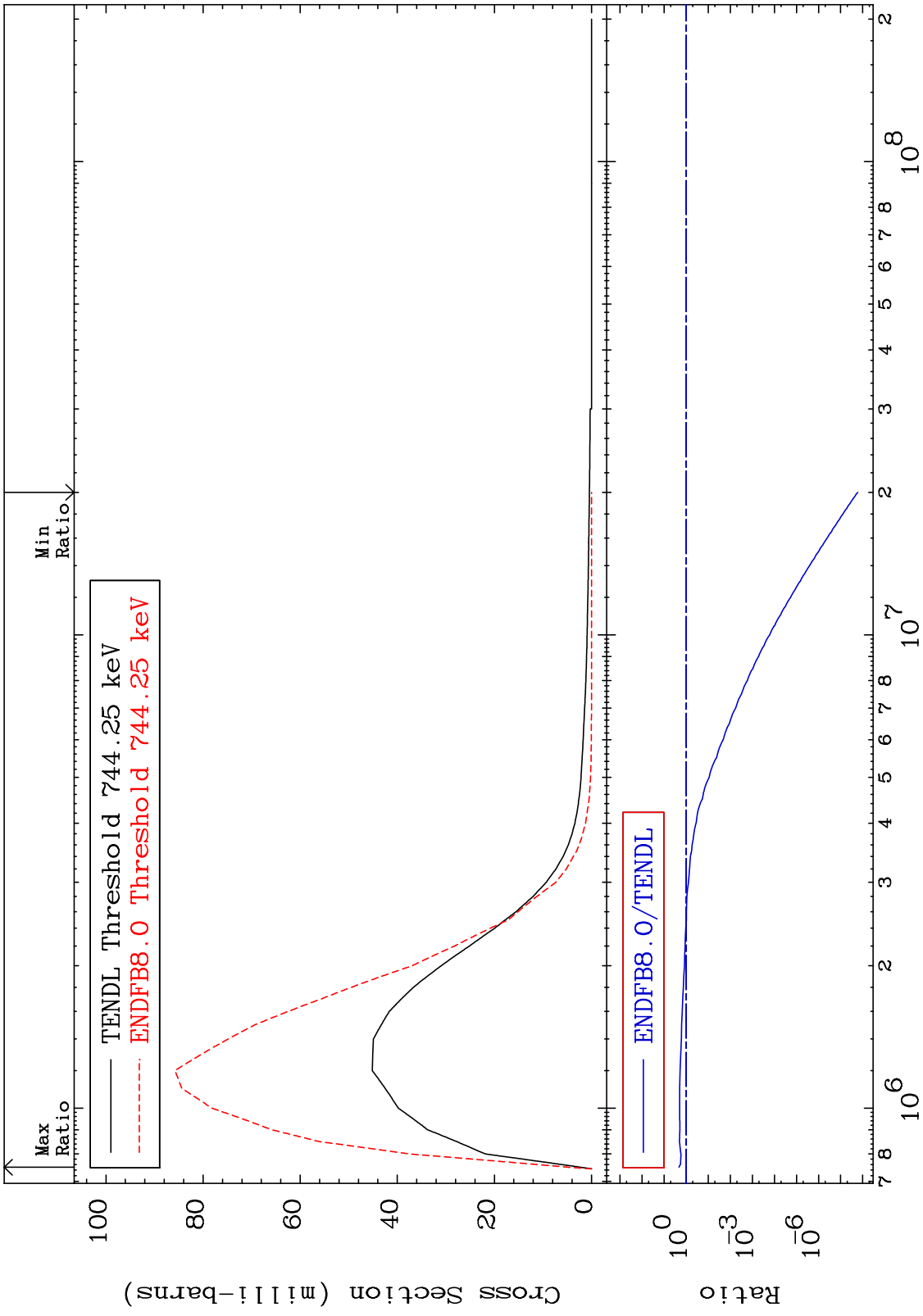
MAT 7731 MT= 68 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 81.68 %



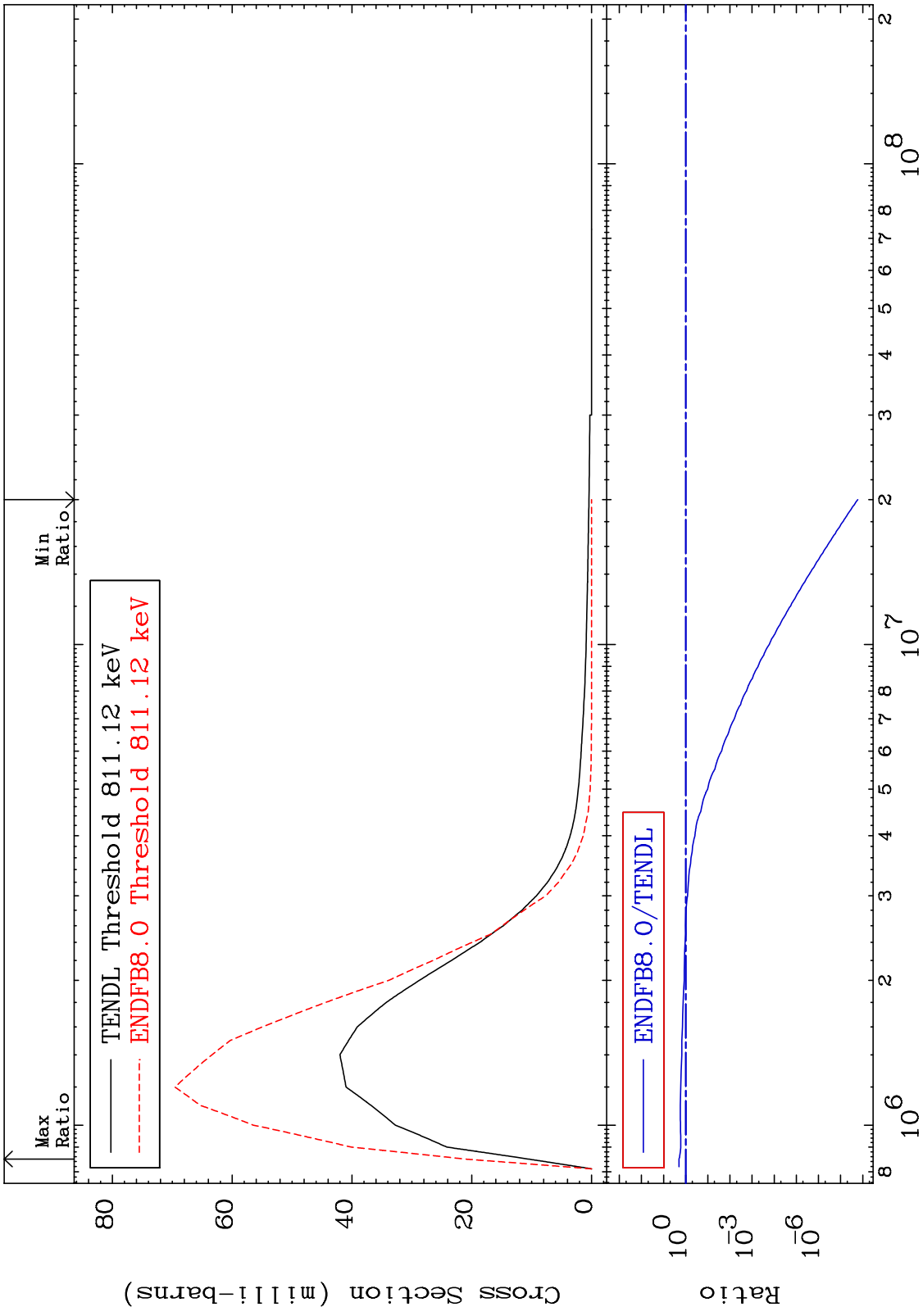
MAT 7731 MT= 69 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 92.79 %



MAT 7731 MT= 70 (n,n') Level Cross Section 77-Ir-193 -100.0 To 110.4 %

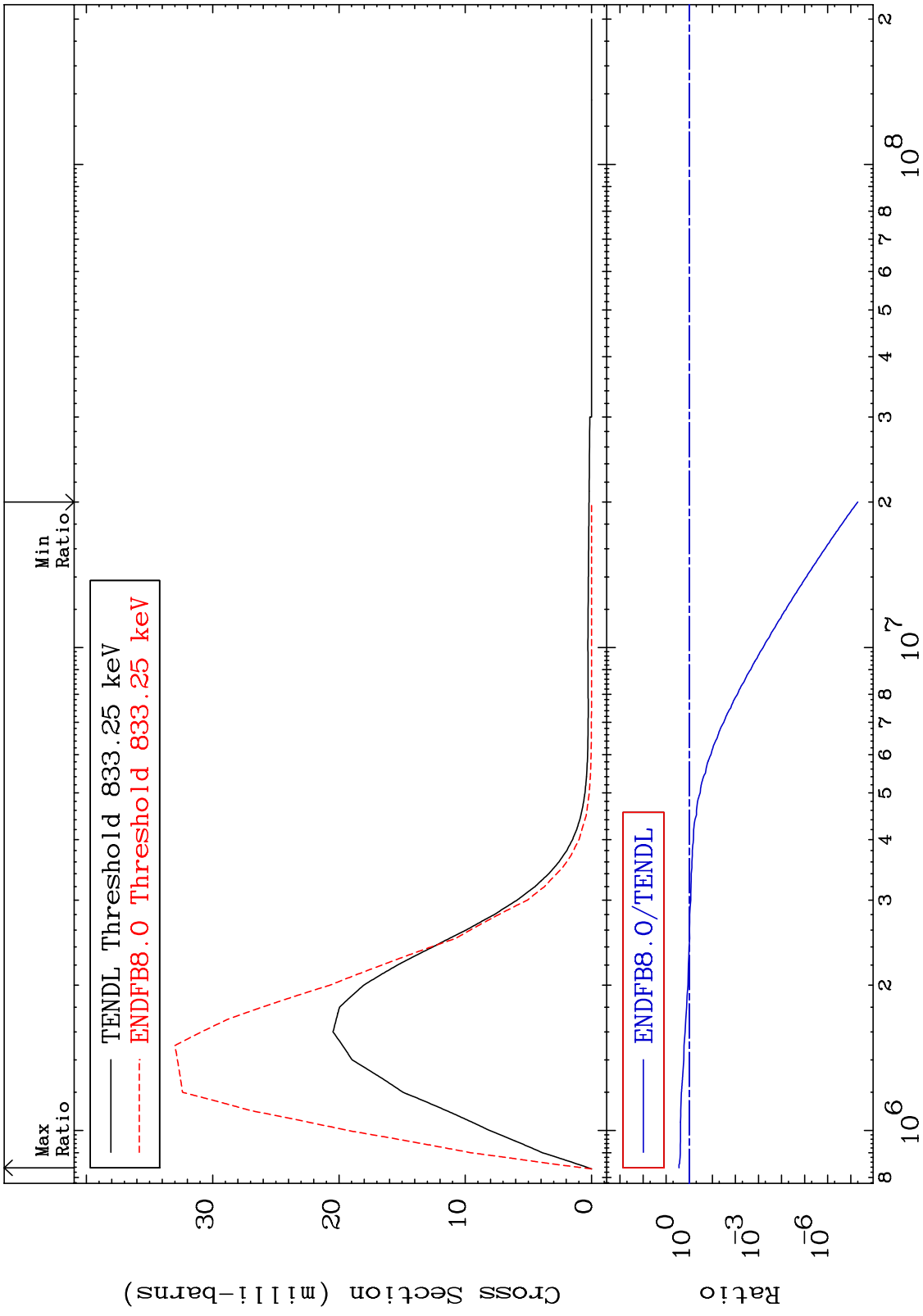


MAT 7731 MT= 71 (n,n') Level Cross Section 77-Ir-193 -100.0 To 99.85 %

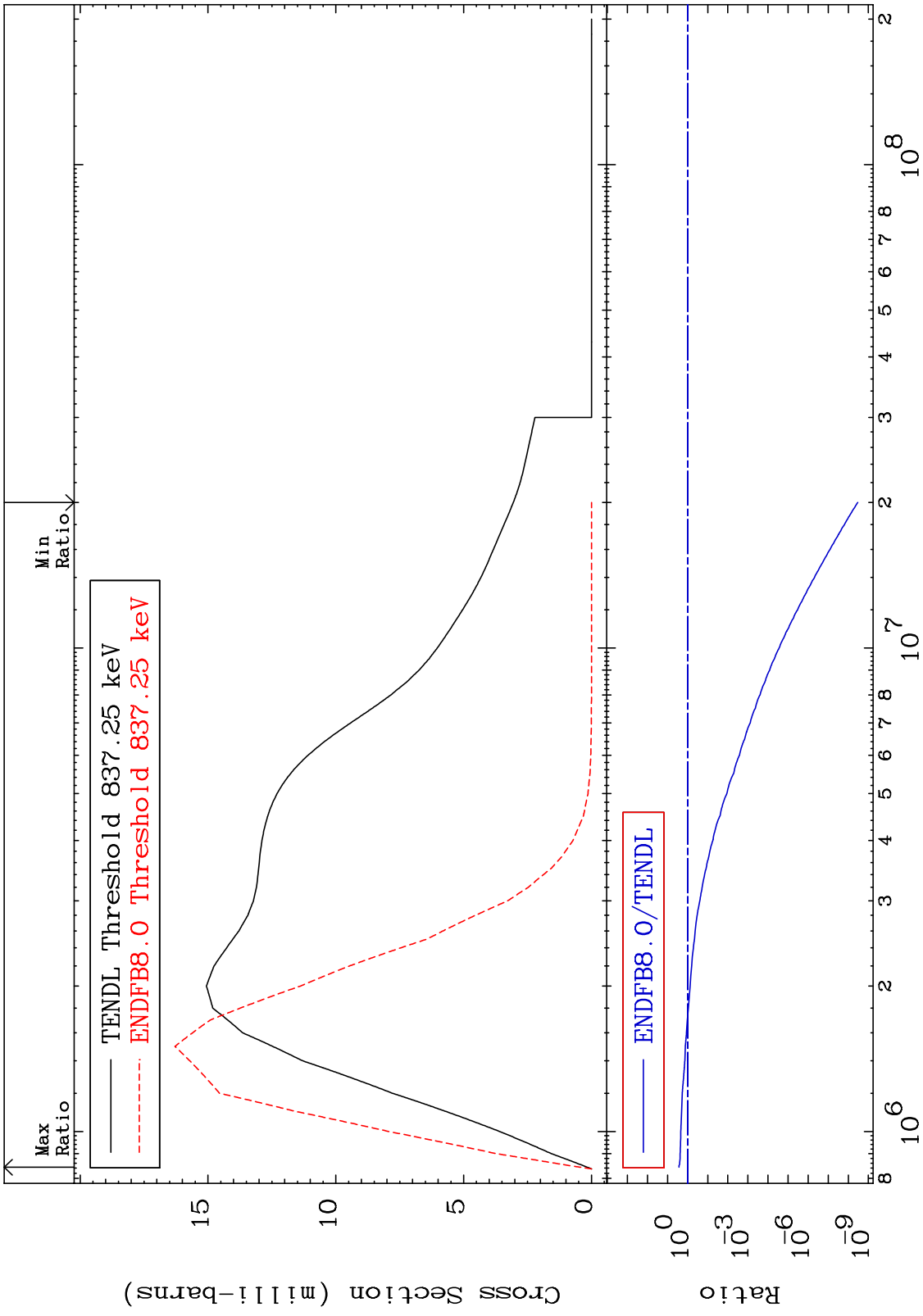


30 Incident Energy (eV) 77-Ir-193

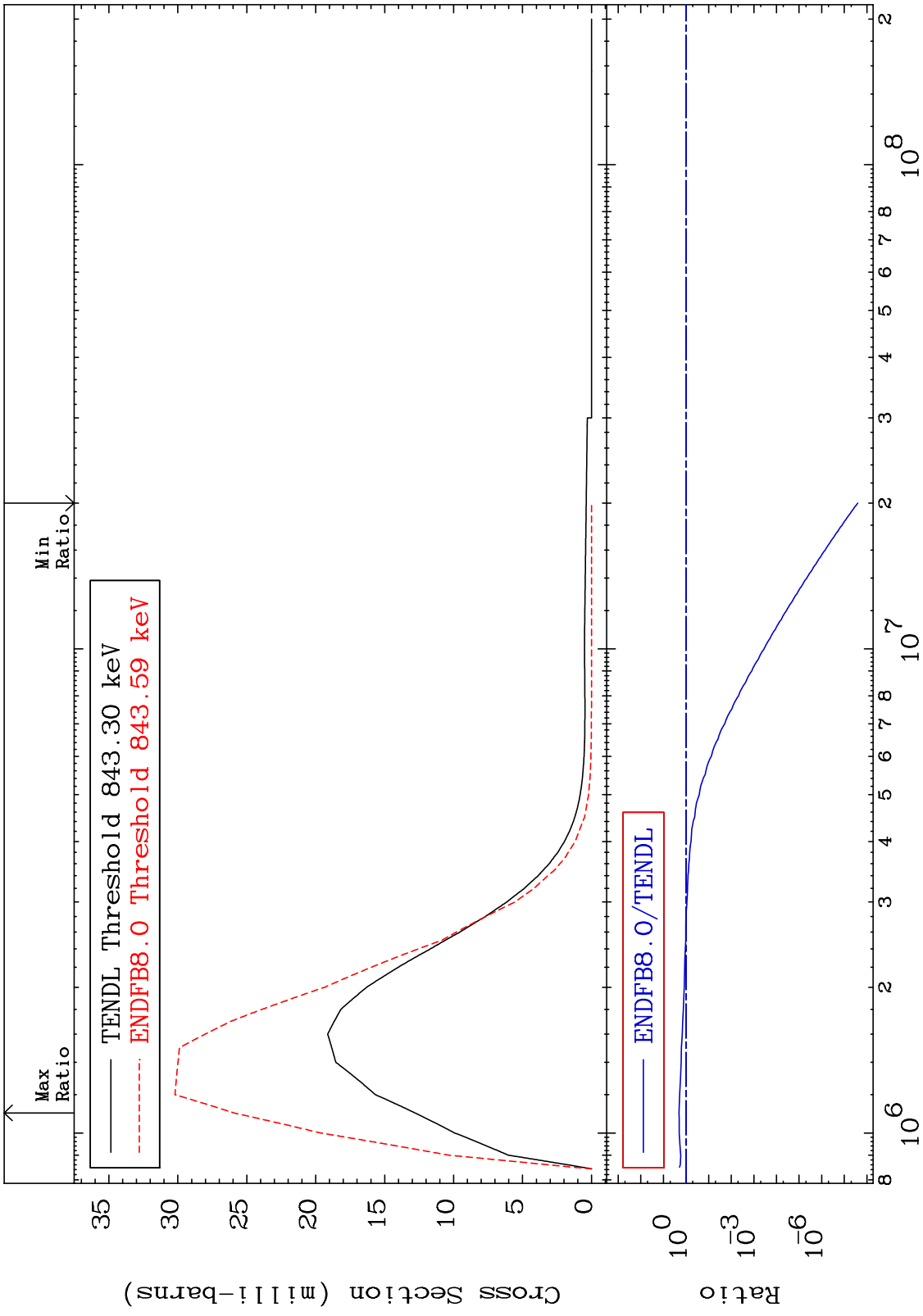
MAT 7731 MT= 72 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 176.3 %



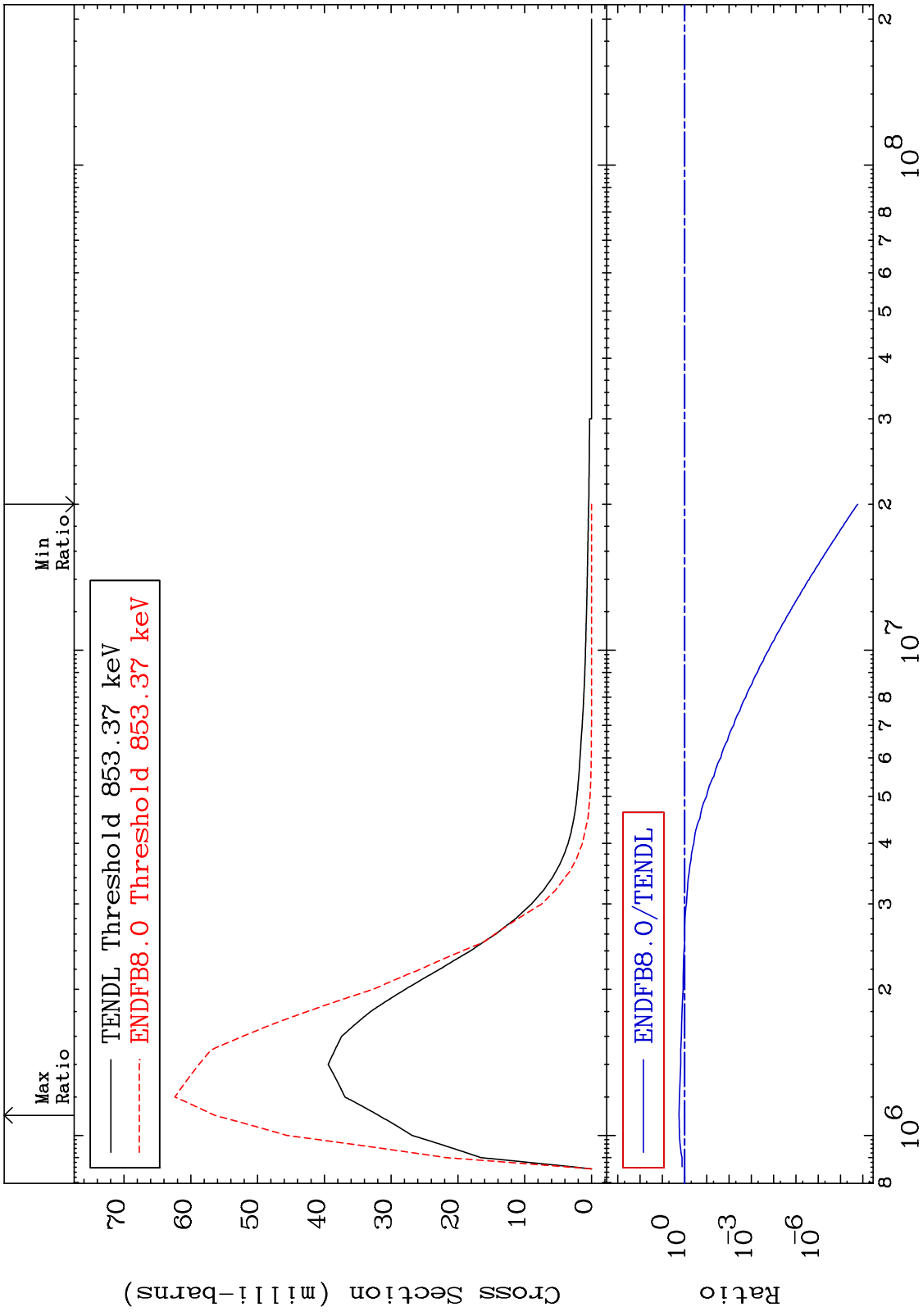
MAT 7731 MT= 73 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 169.1 %



MAT 7731 MT= 74 (n,n') Level 77-Ir-193
 Cross Section -100.0 To 102.6 %

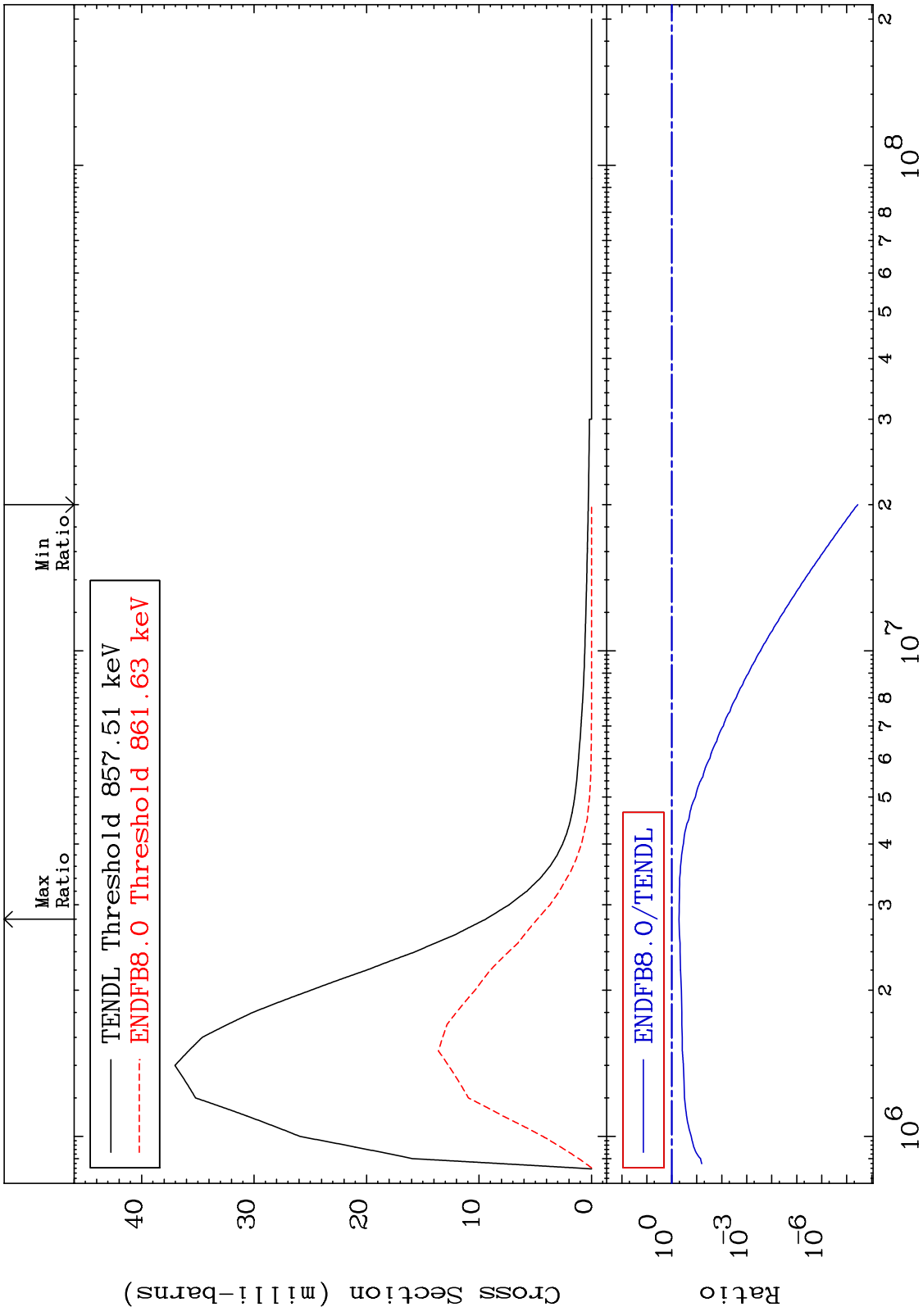


MAT 7731 MT= 75 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 76.97 %

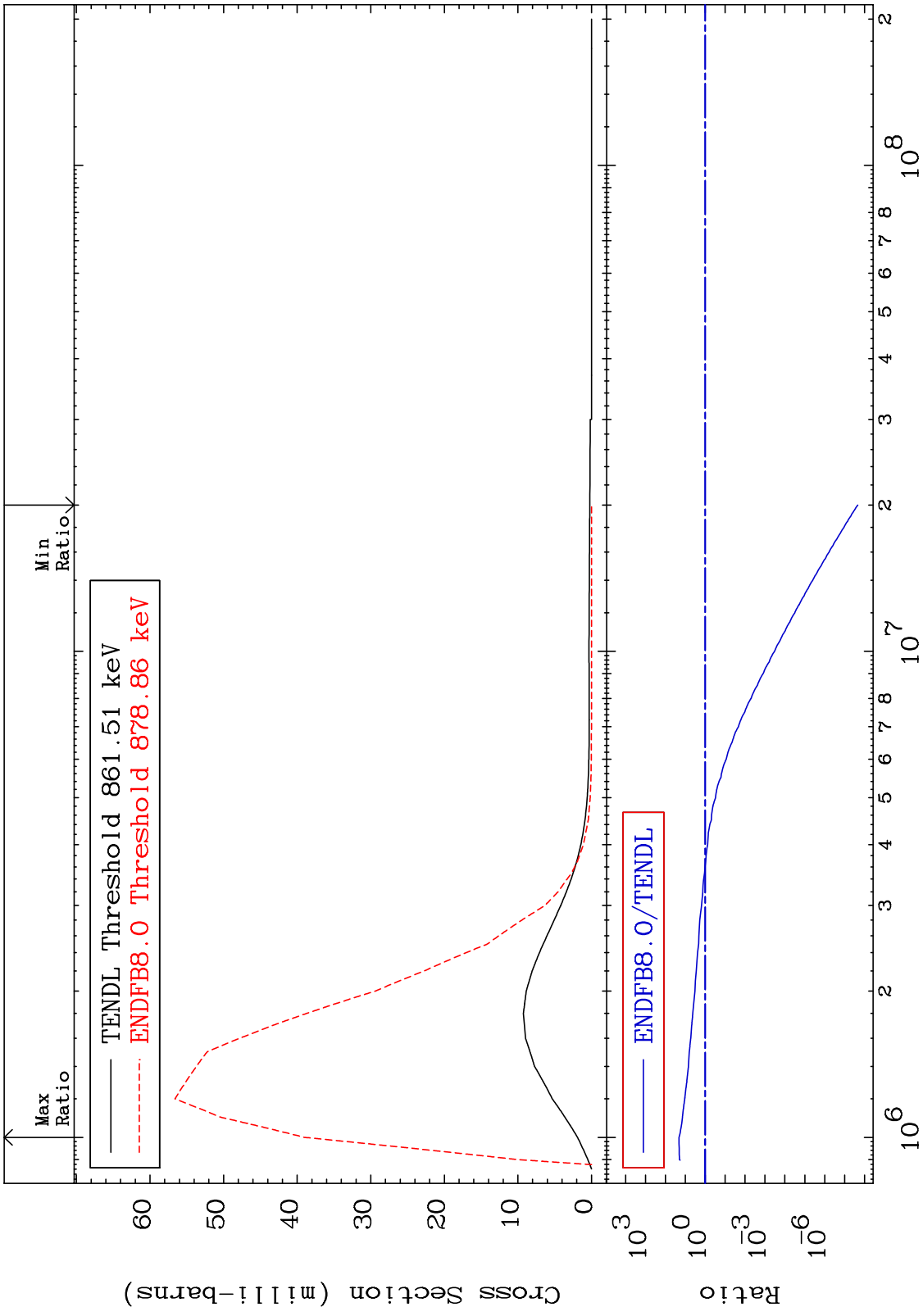


34 77-Ir-193

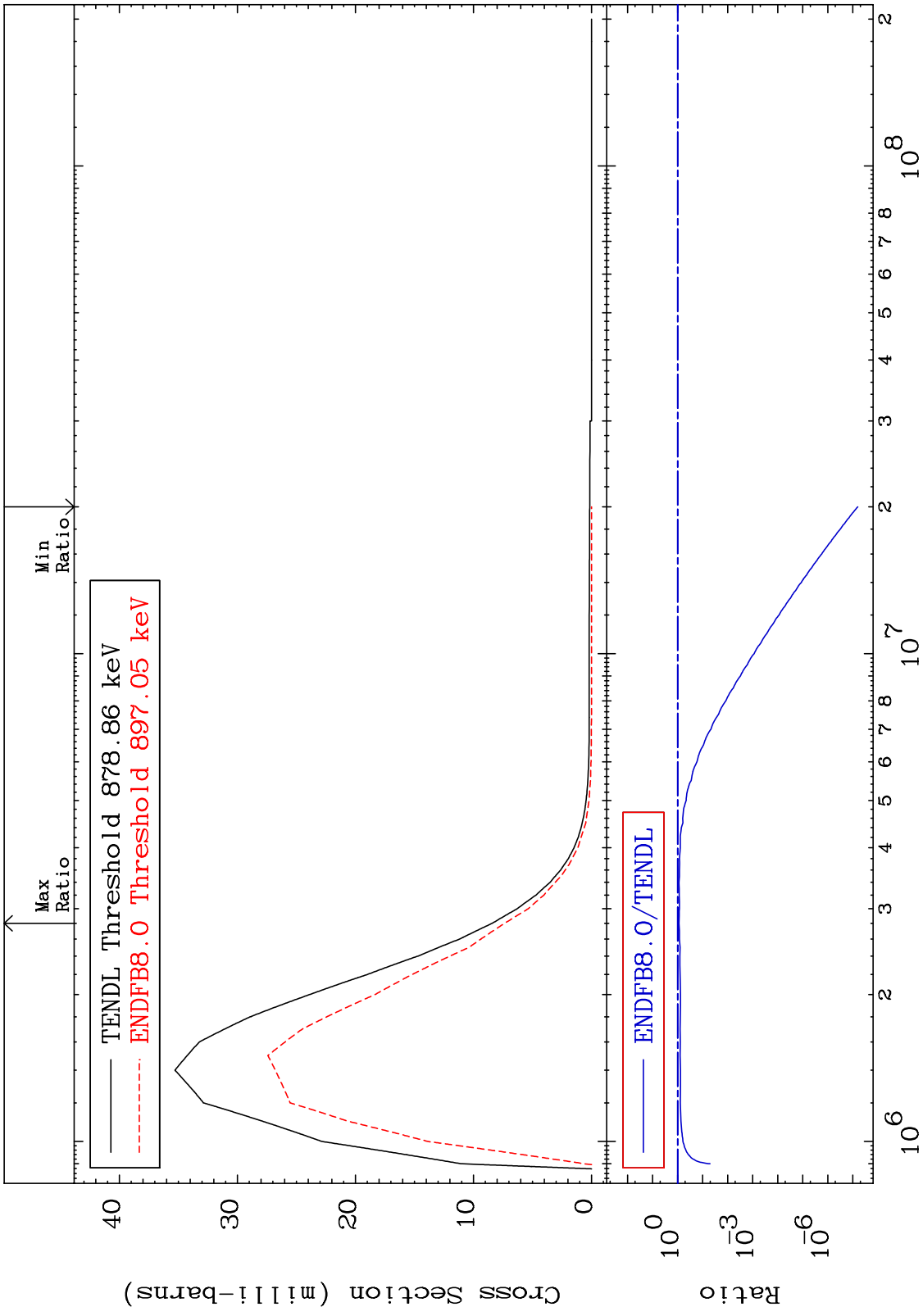
MAT 7731 MT= 76 (n,n') Level Cross Section 77-Ir-193
 -100.0 To -48.69%



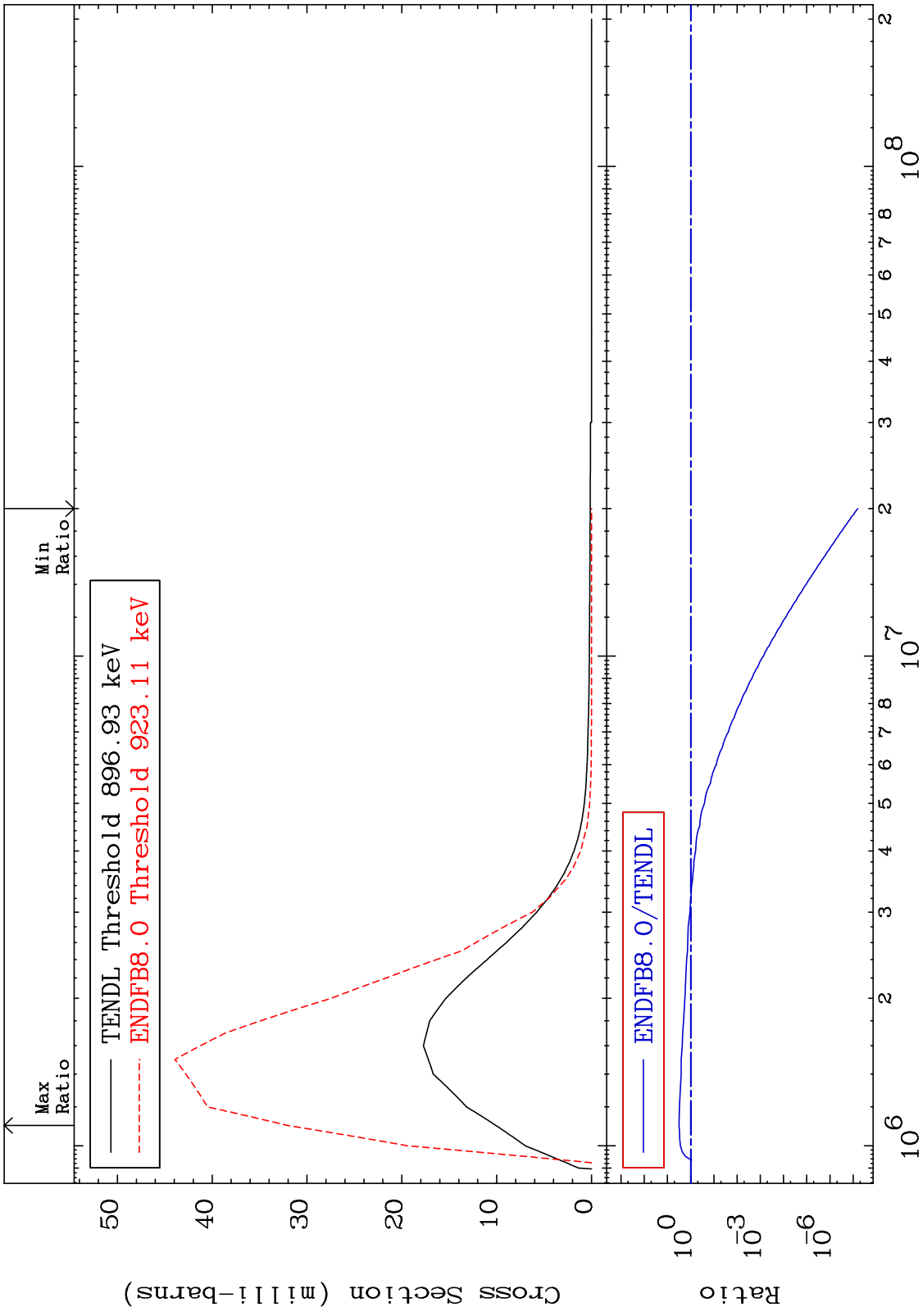
MAT 7731 MT= 77 (n,n') Level Cross Section 77-Ir-193
 -100.0 To 1957. %



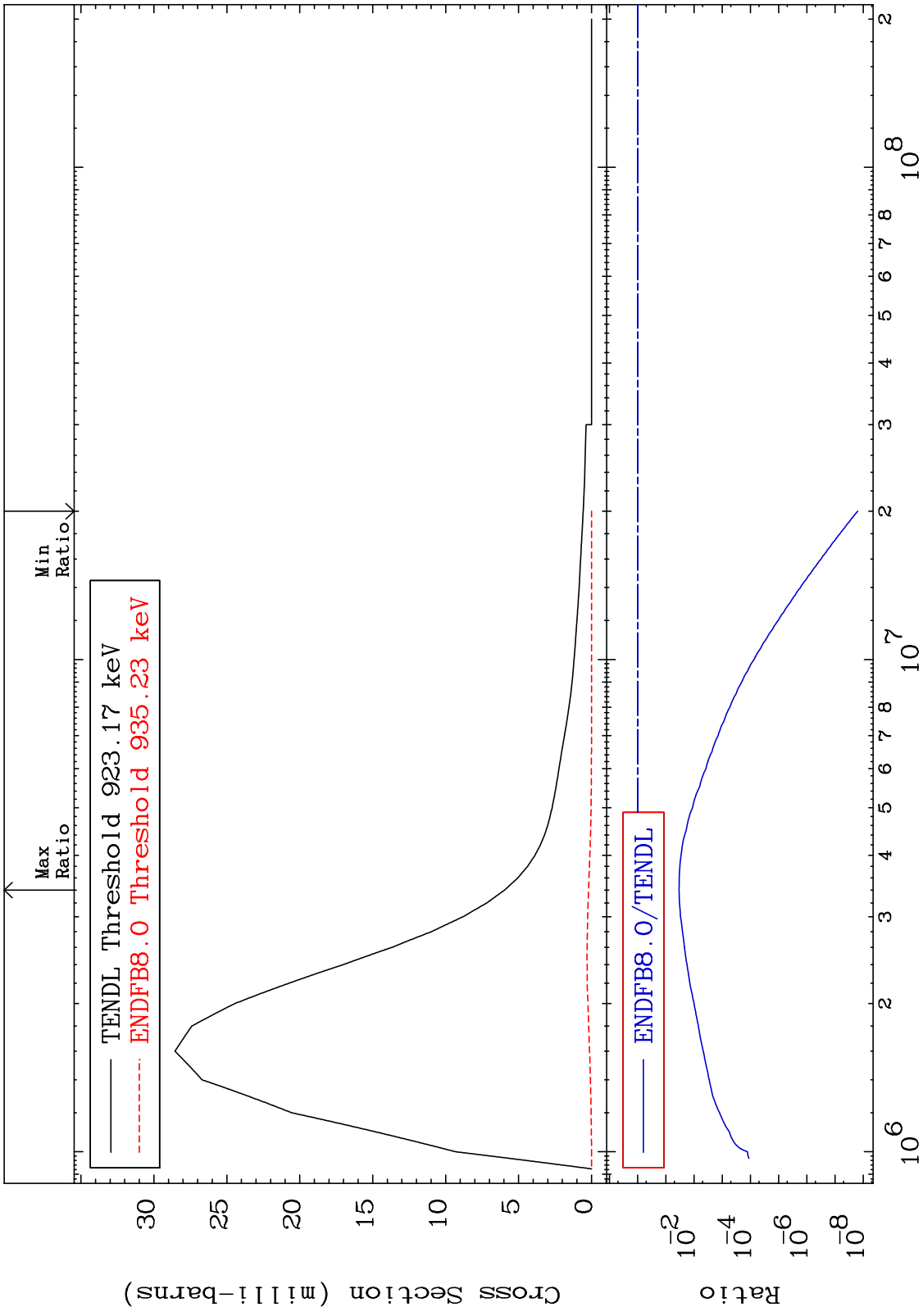
MAT 7731 MT= 78 (n,n') Level Cross Section 77-Ir-193 -100.0 To -12.52%



MAT 7731 MT= 79 (n,n') Level 77-Ir-193
 Cross Section -100.0 To 217.9 %

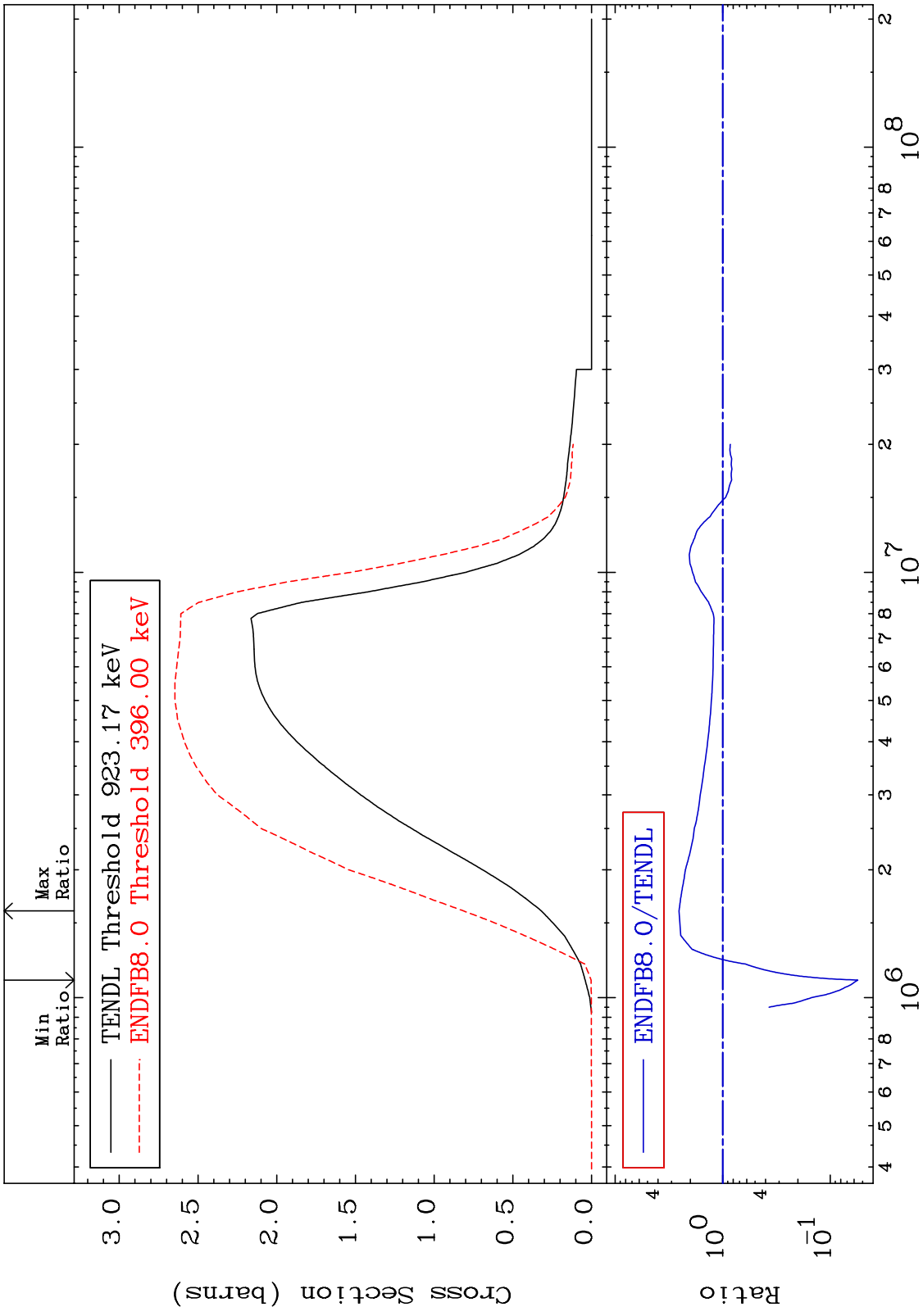


MAT 7731 MT= 80 (n,n') Level Cross Section 77-Ir-193 -100.0 To -96.59%



39 77-Ir-193

MAT 7731 (n,n') Continuum Cross Section 77-Ir-193 -94.45 To 155.0 %



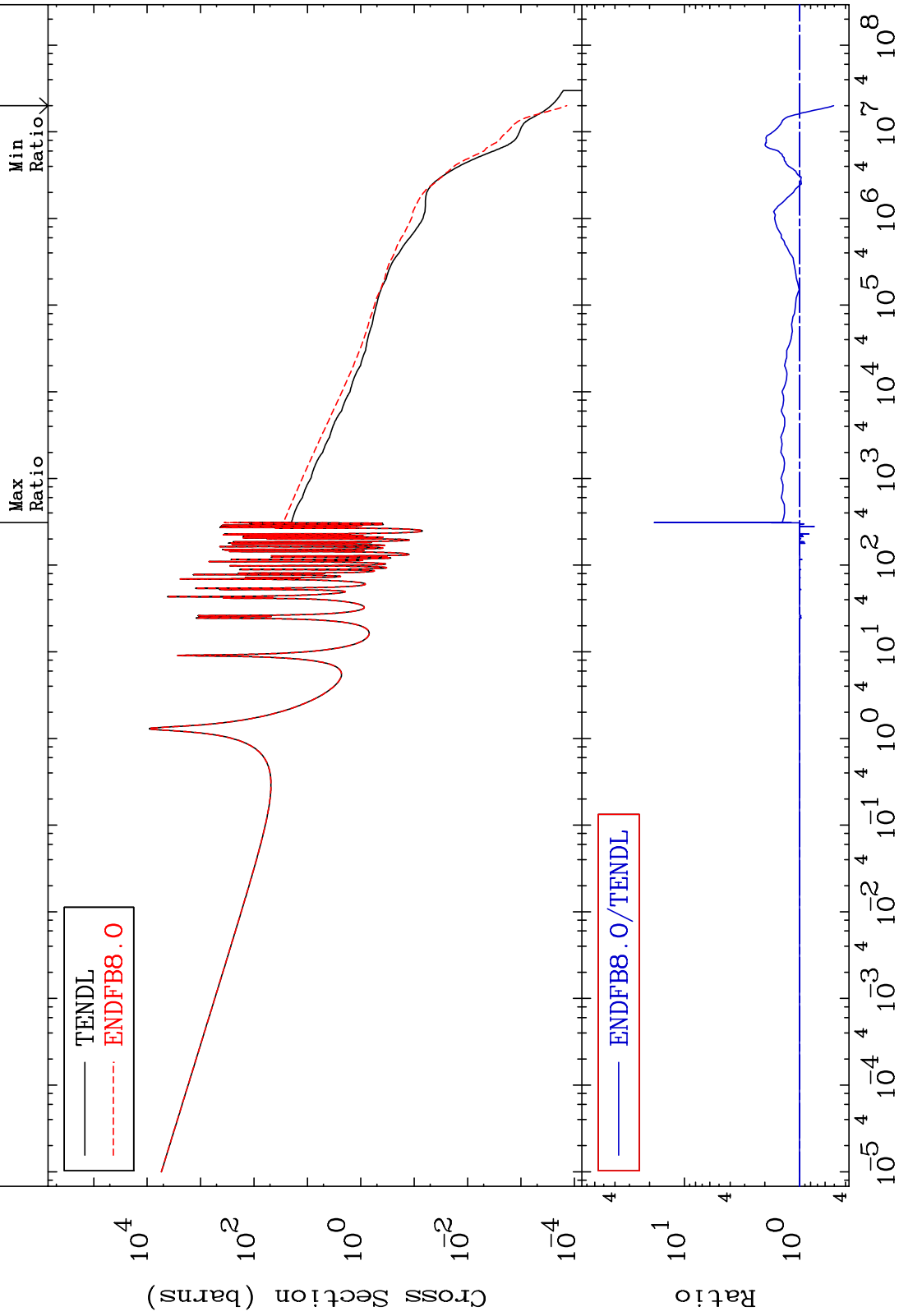
MAT 7731

(n, γ)

77-Ir-193

-49.43 To 1717. %

Cross Section



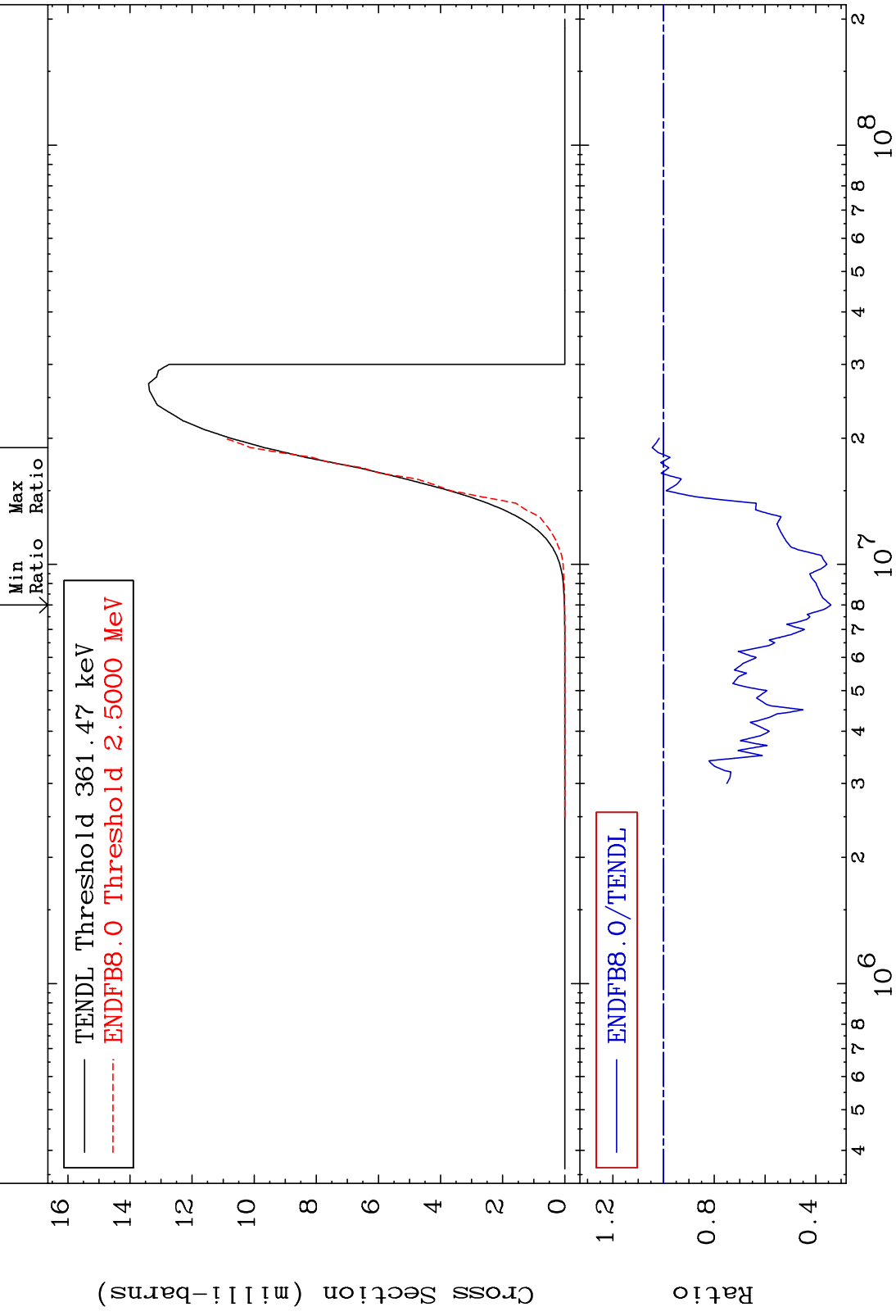
MAT 7731

(n,p)

77-Ir-193

Cross Section

-65.94 To 4.460 %

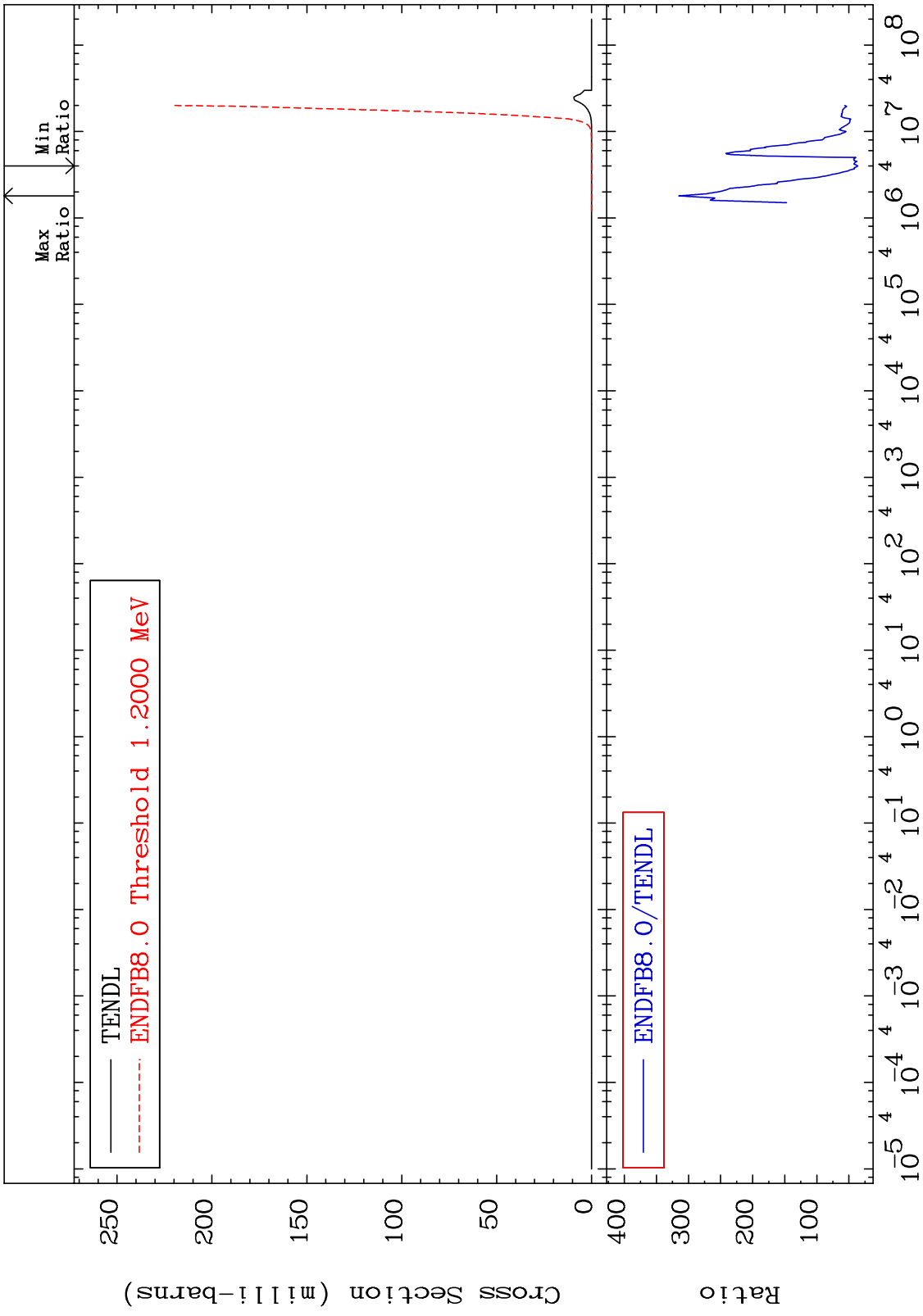


42

Incident Energy (eV)

77-Ir-193

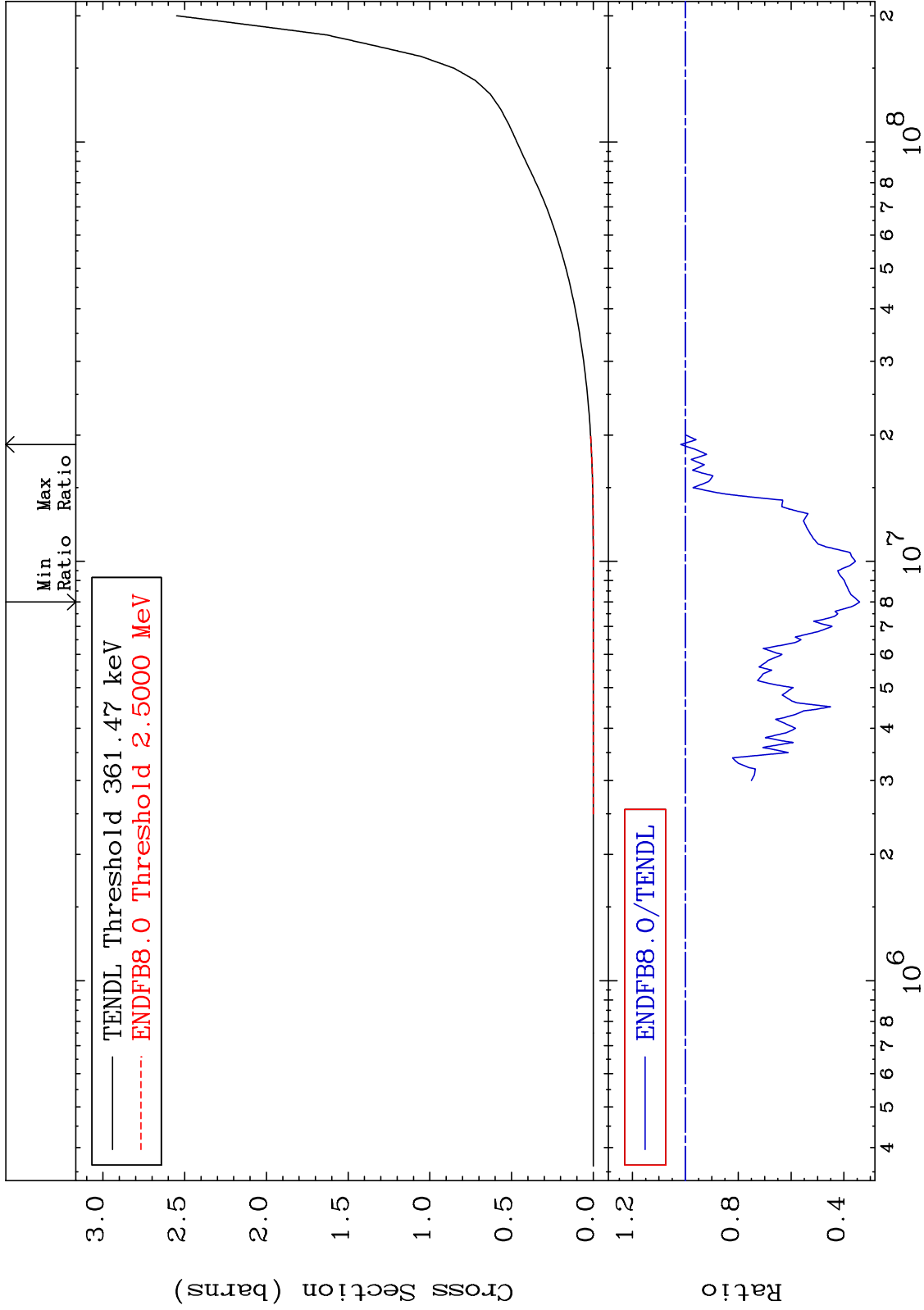
MAT 7731 (n,α) Cross Section 77-Ir-193 To 9999. %



MAT 7731

Hydrogen Production
Cross Section

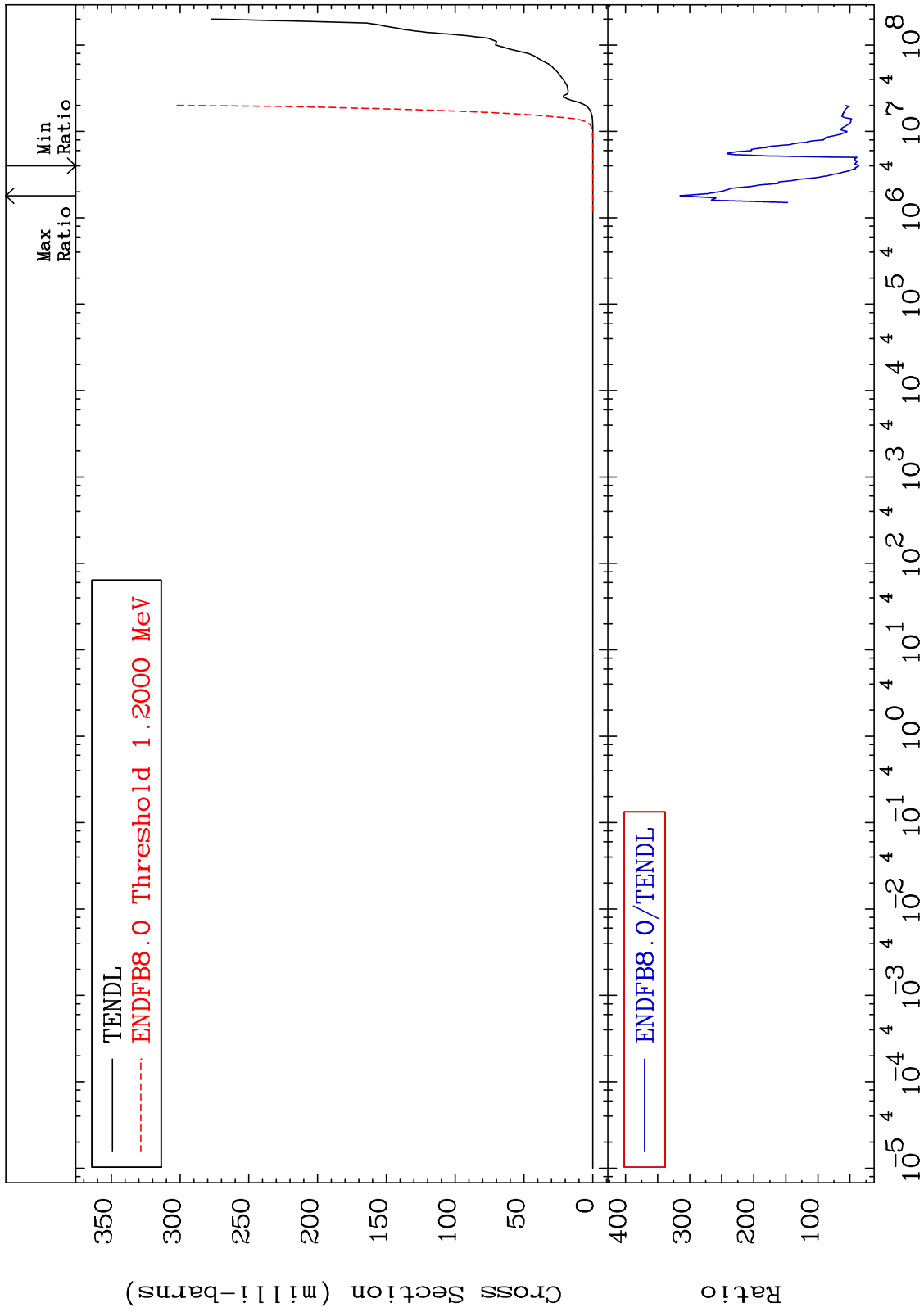
77-Ir-193
-65.94 To 1.717 %



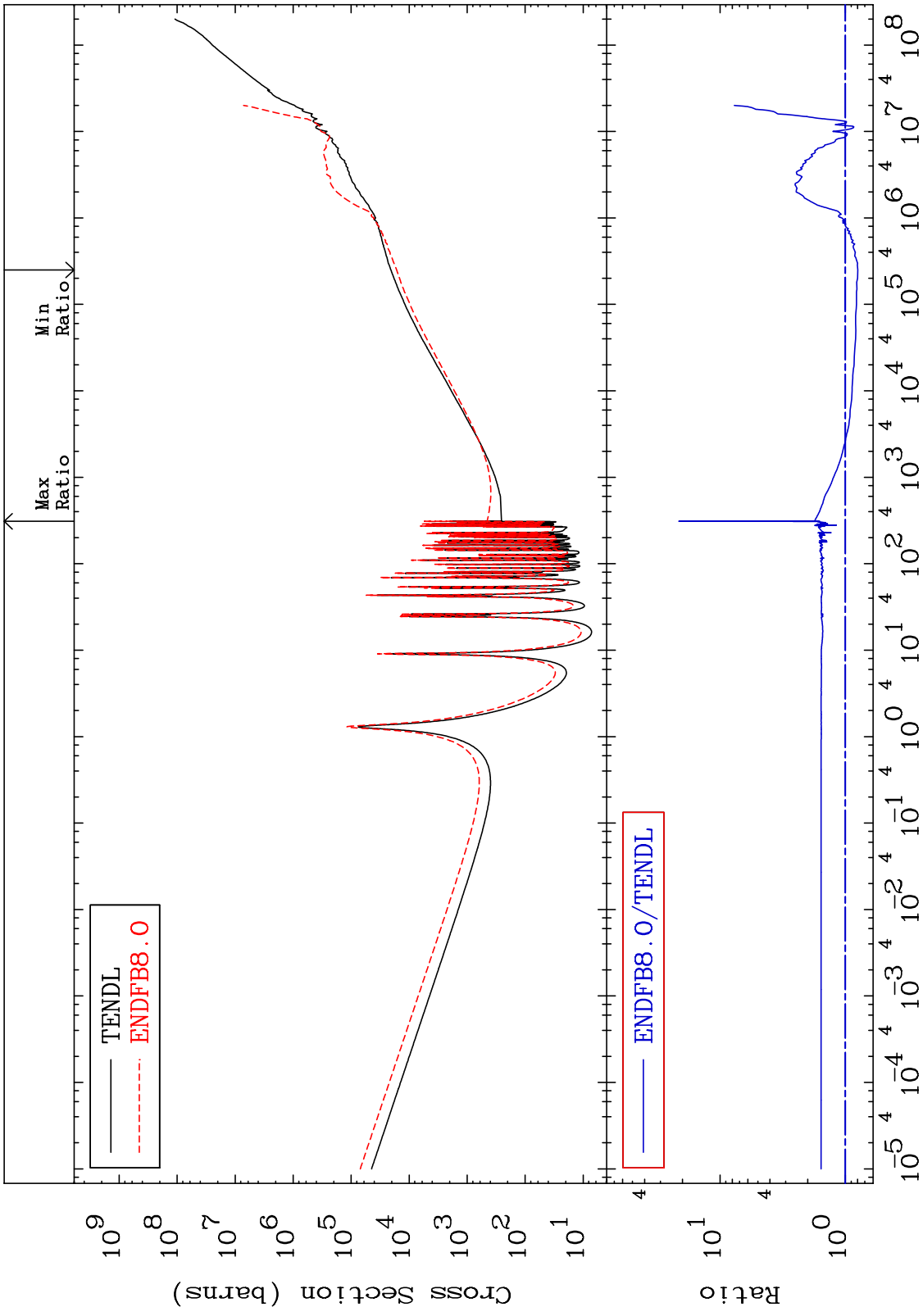
MAT 7731

He-4 Production
Cross Section

77-Ir-193
3509. To 9999. %



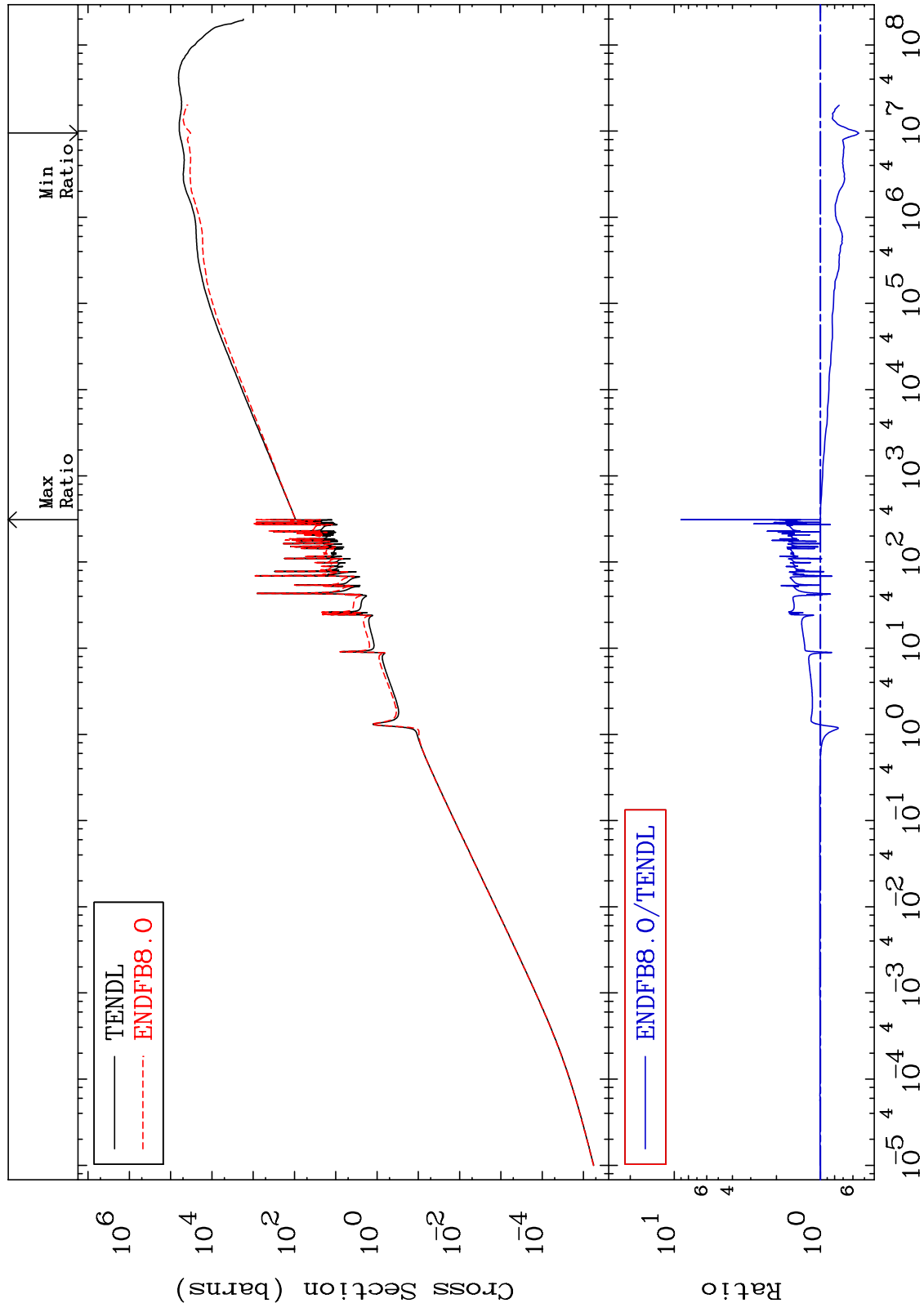
MAT 7731 Kerma total (eV-barns) 77-Ir-193
 Cross Section -20.40 To 2026. %



MAT 7731

Kerma elastic
Cross Section

77-Ir-193
-45.60 To 800.6 %

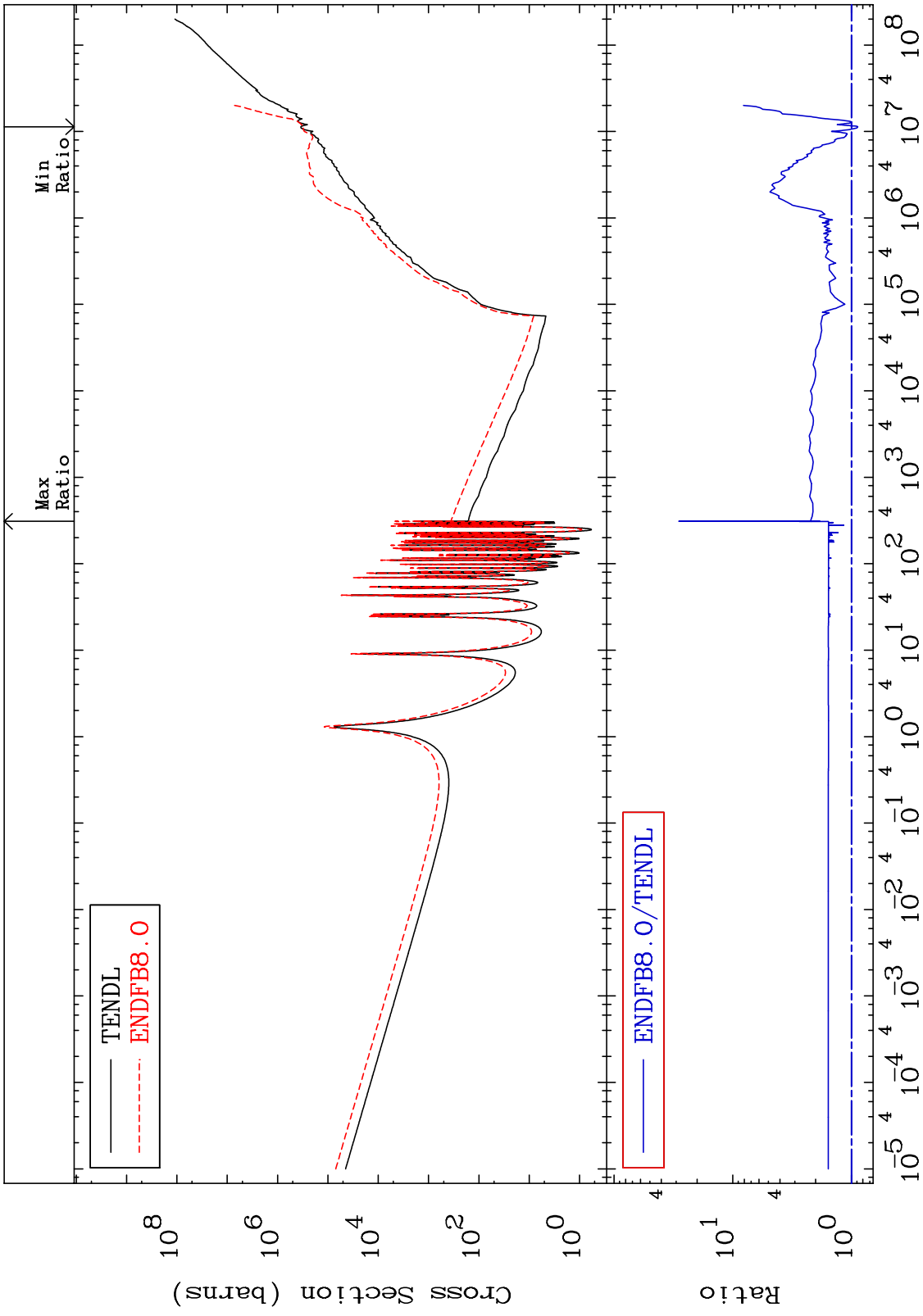


47

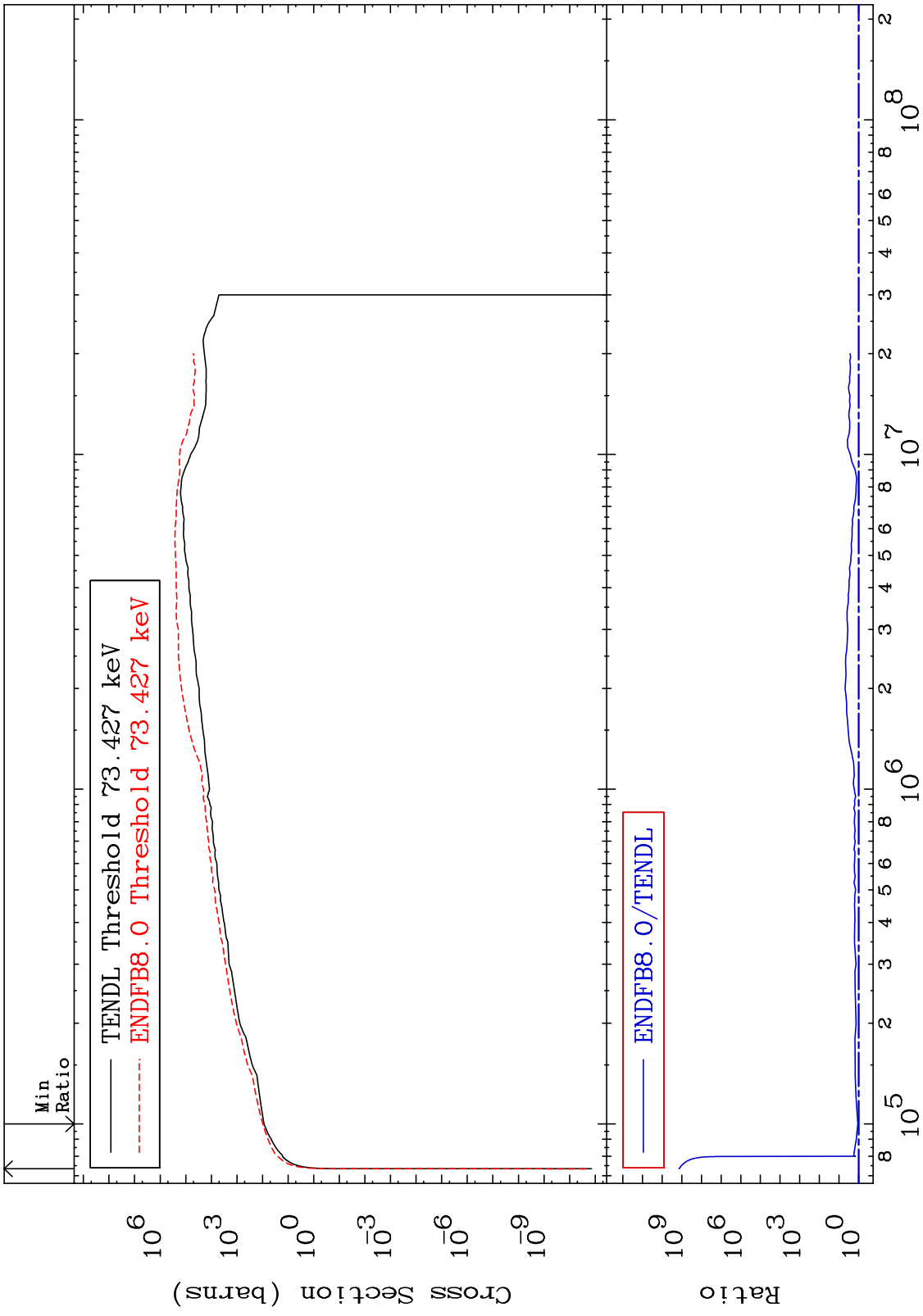
Incident Energy (eV)

77-Ir-193

MAT 7731 Kerma non-elastic (all but mt2) 77-Ir-193
 -11.74 To 2736. %
 Cross Section



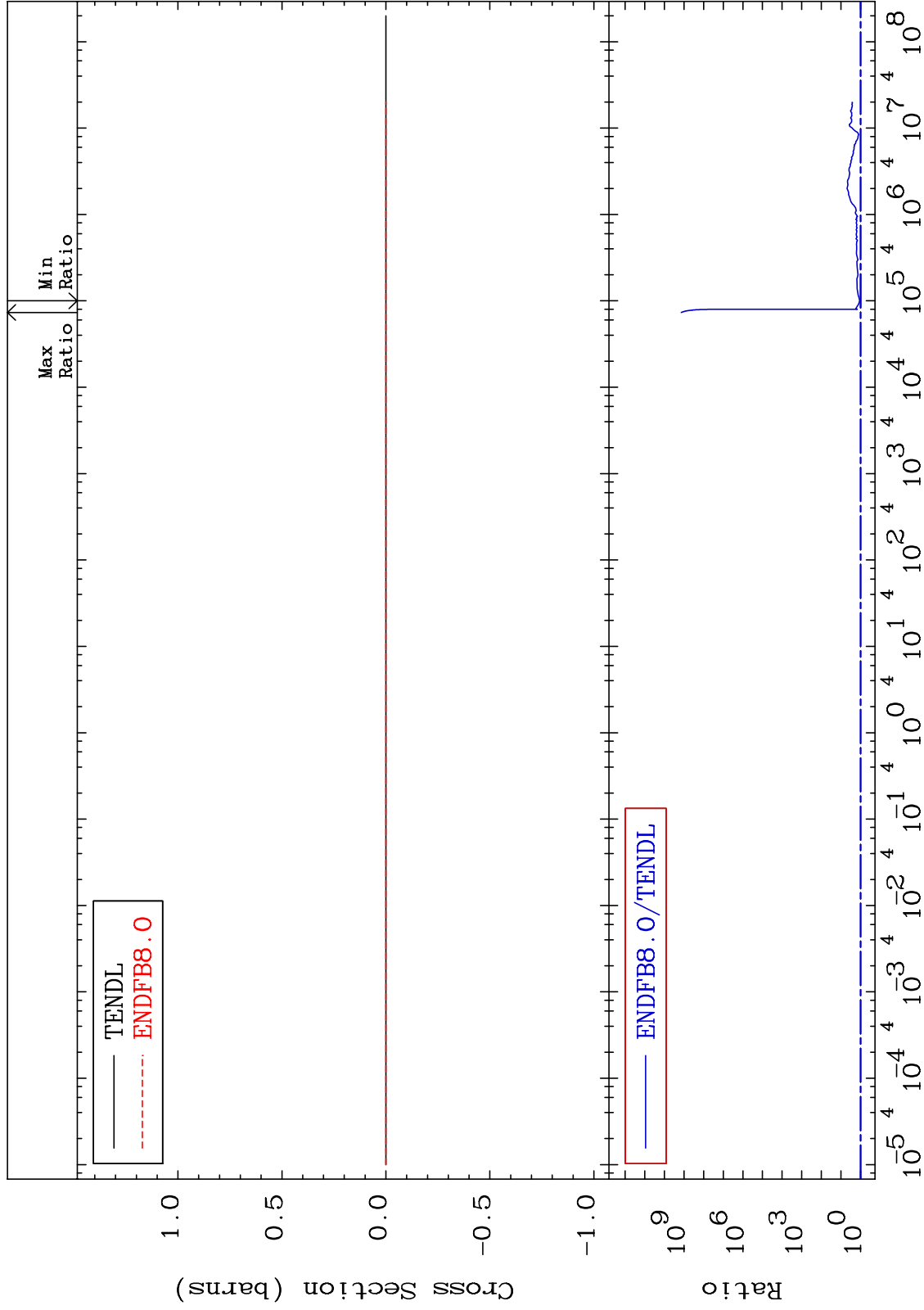
MAT 7731 Kerma inelastic (mt51-91) 77-Ir-193
Cross Section 10.95 To 9999. %



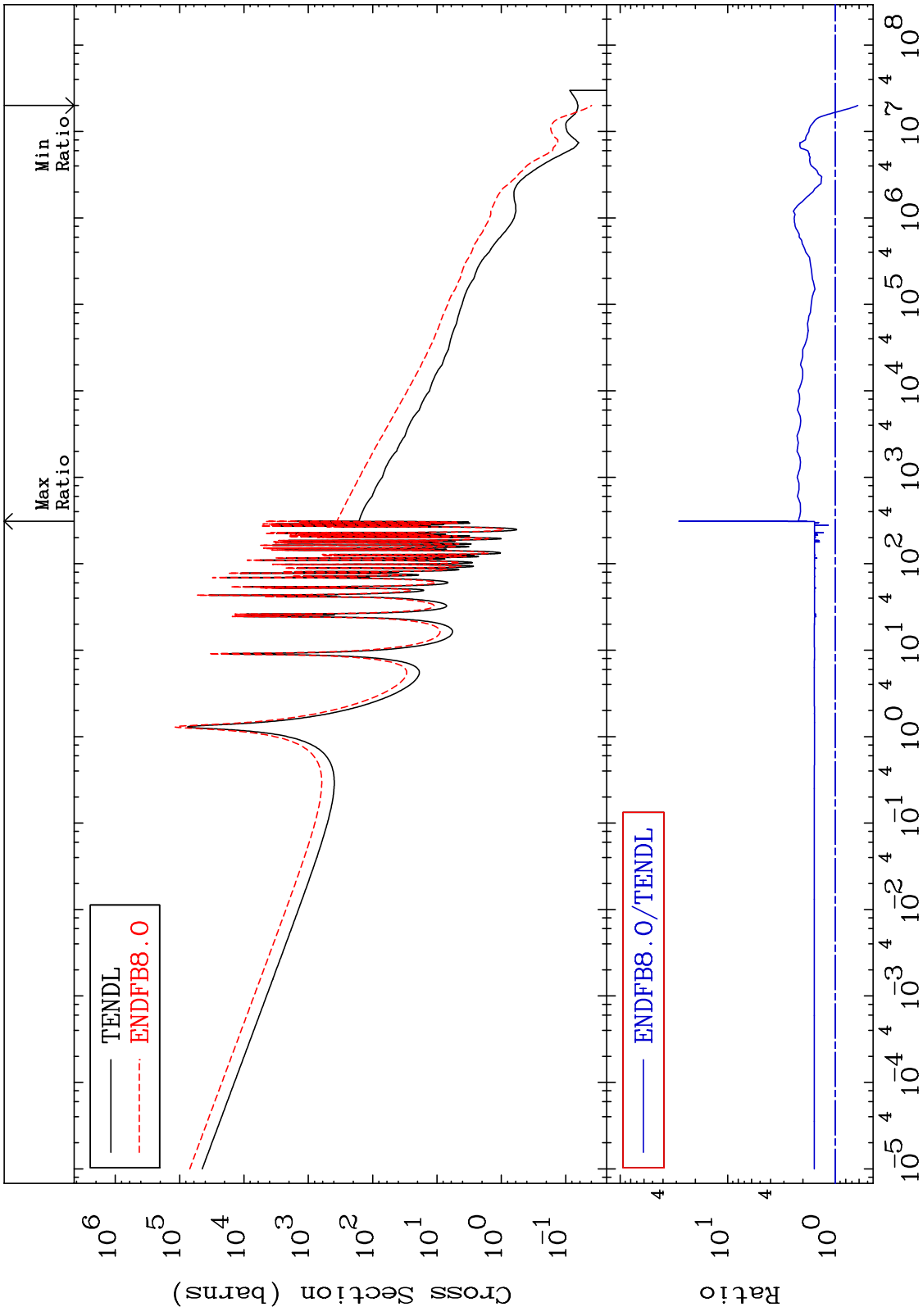
MAT 7731

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

77-Ir-193
10.95 To 9999. %



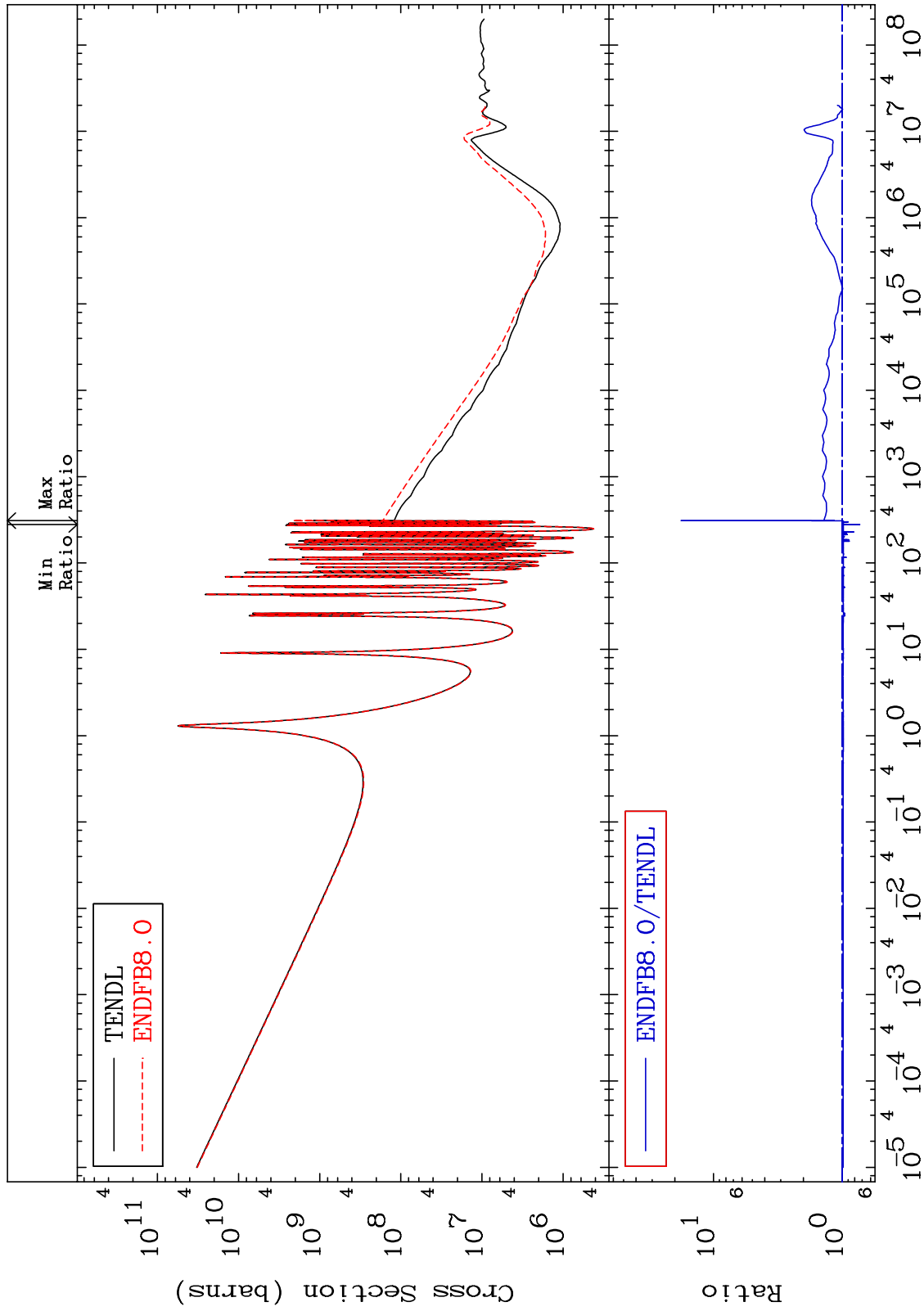
MAT 7731 Kerma capture (mt102) 77-Ir-193
 Cross Section -38.35 To 2736. %



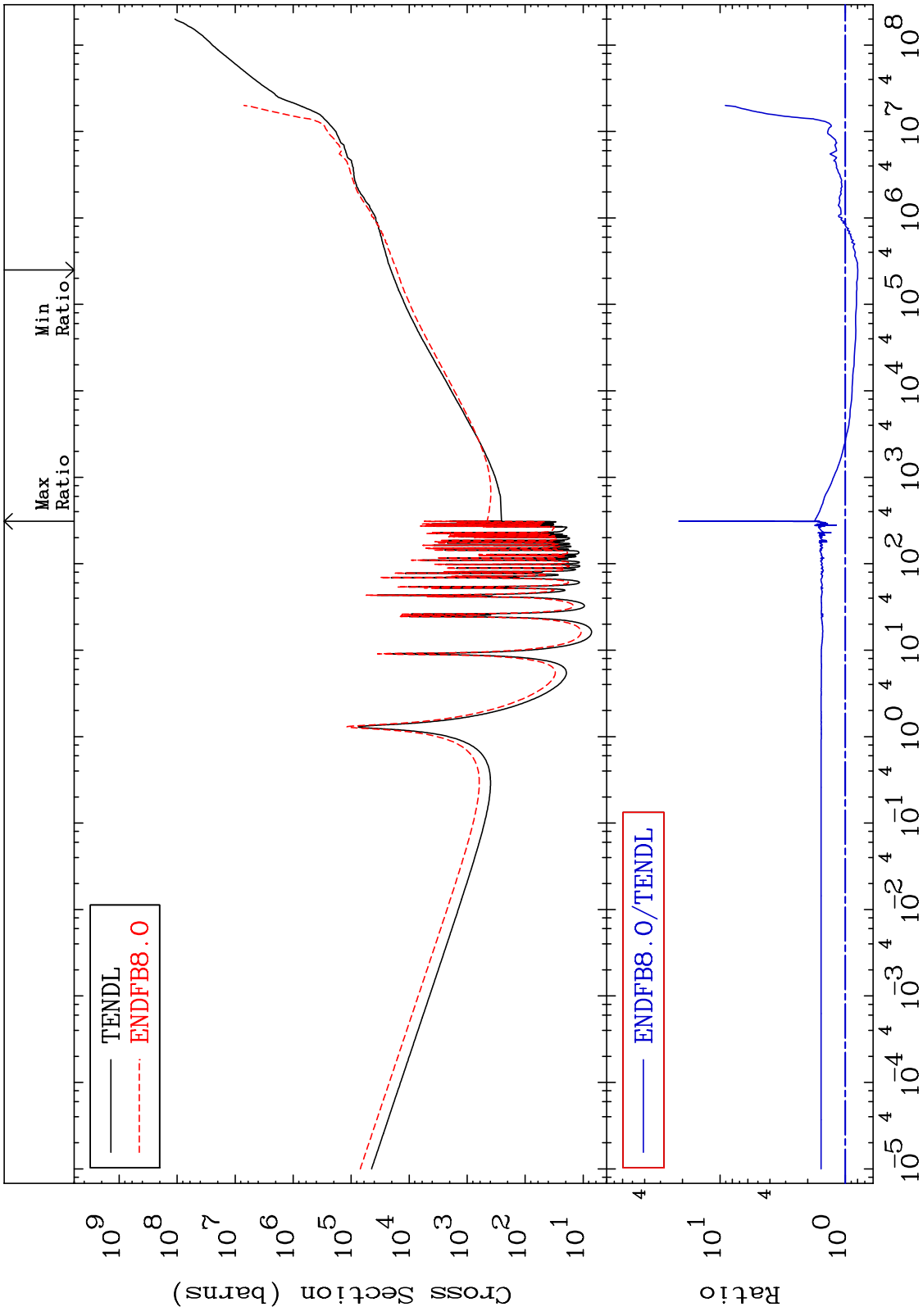
MAT 7731

Total photon (eV-barns)
Cross Section

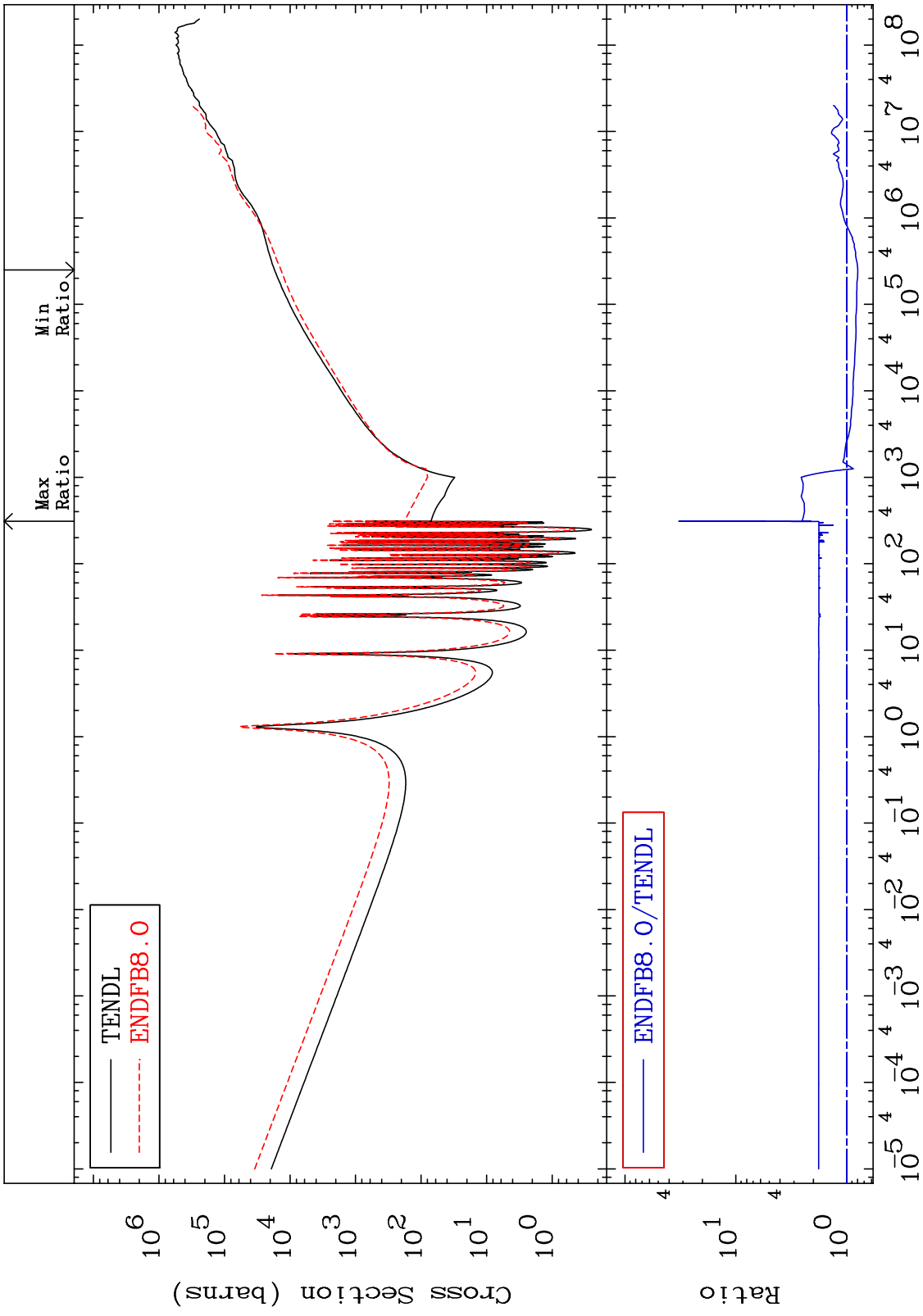
77-Ir-193
-27.00 To 1682. %



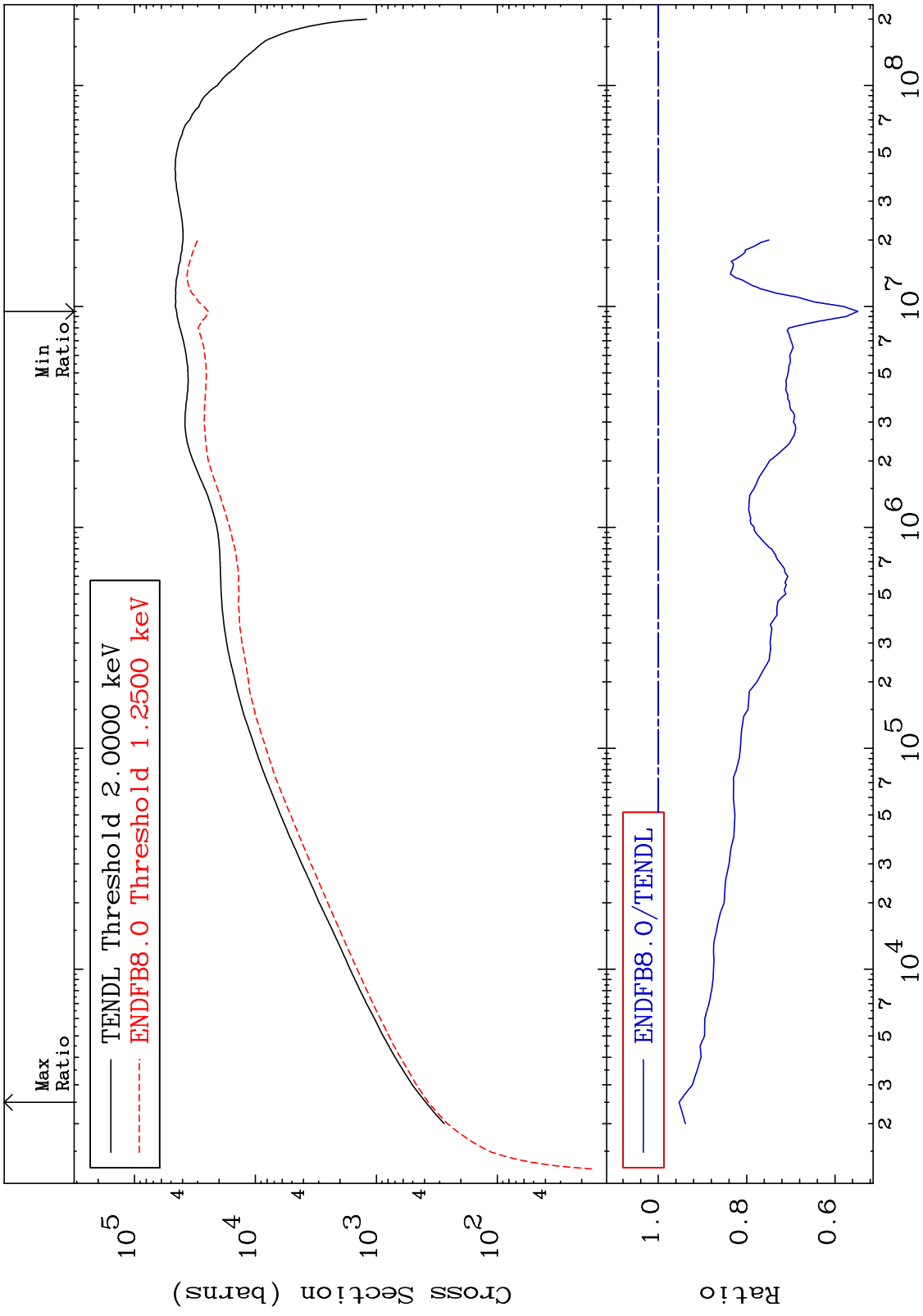
MAT 7731 Total kinematic kerma (high limit) 77-Ir-193
 Cross Section -20.40 To 2026. %



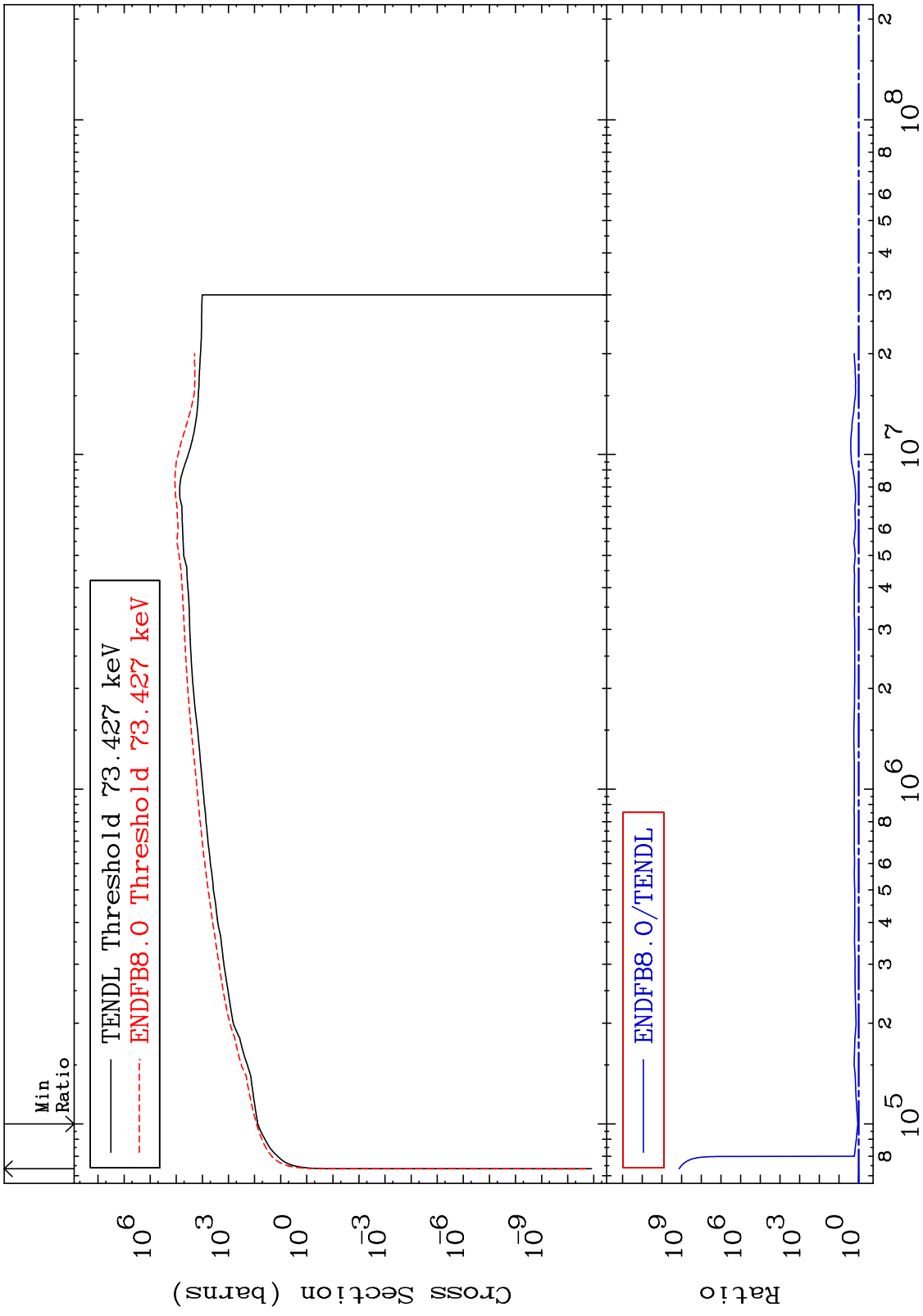
MAT 7731 Dpa total (eV-barns) 77-Ir-193
 Cross Section -20.33 To 3151. %



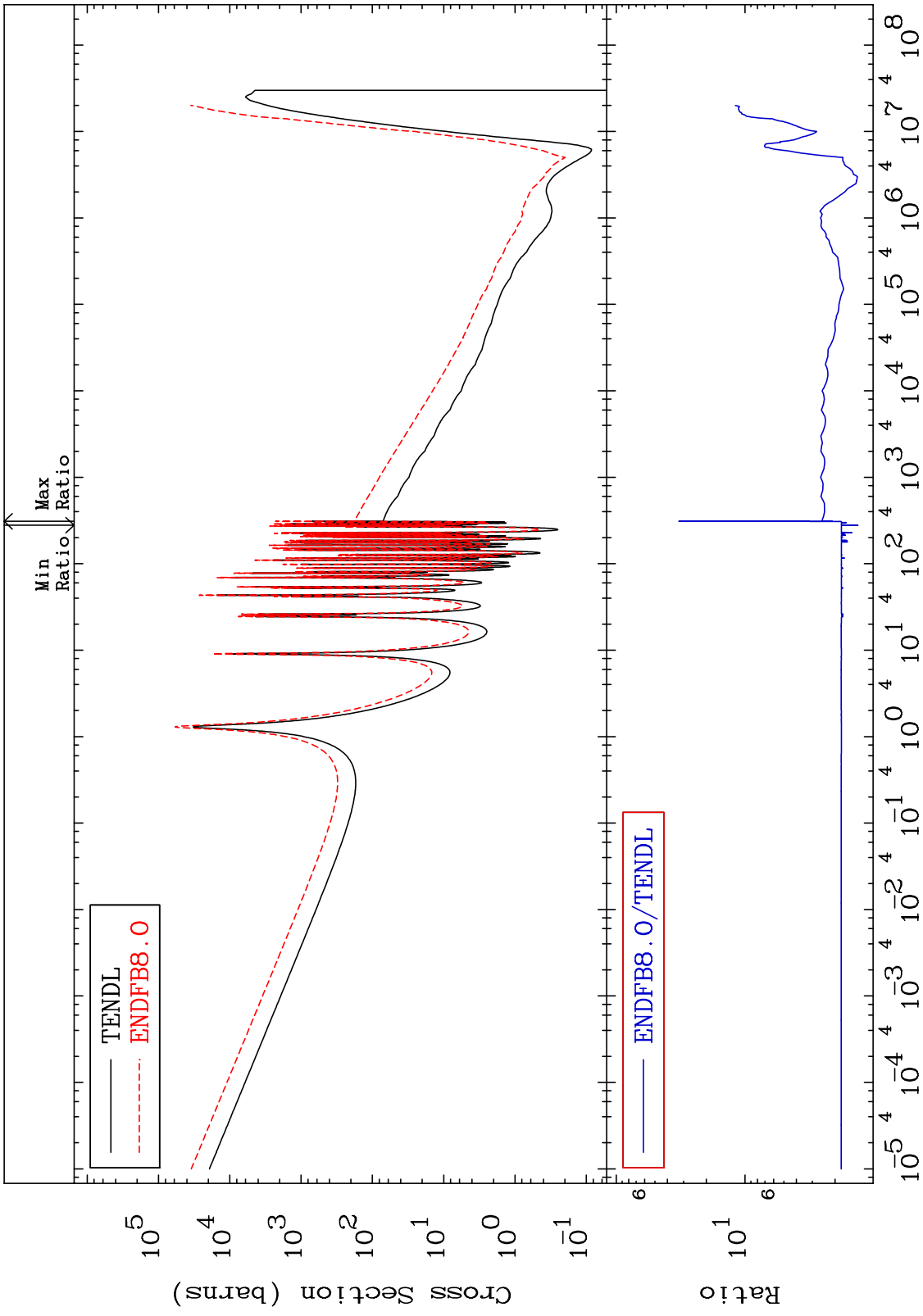
MAT 7731 77-Ir-193
 Dpa elastic (mt2) -45.17 To -4.696%
 Cross Section



MAT 7731 Dpa inelastic (mt51-91) 77-Ir-193
 Cross Section 10.95 To 9999. %



MAT 7731 Dpa disappearance (mt102 -120) 77-Ir-193
 Cross Section 33.21 To 3151. %

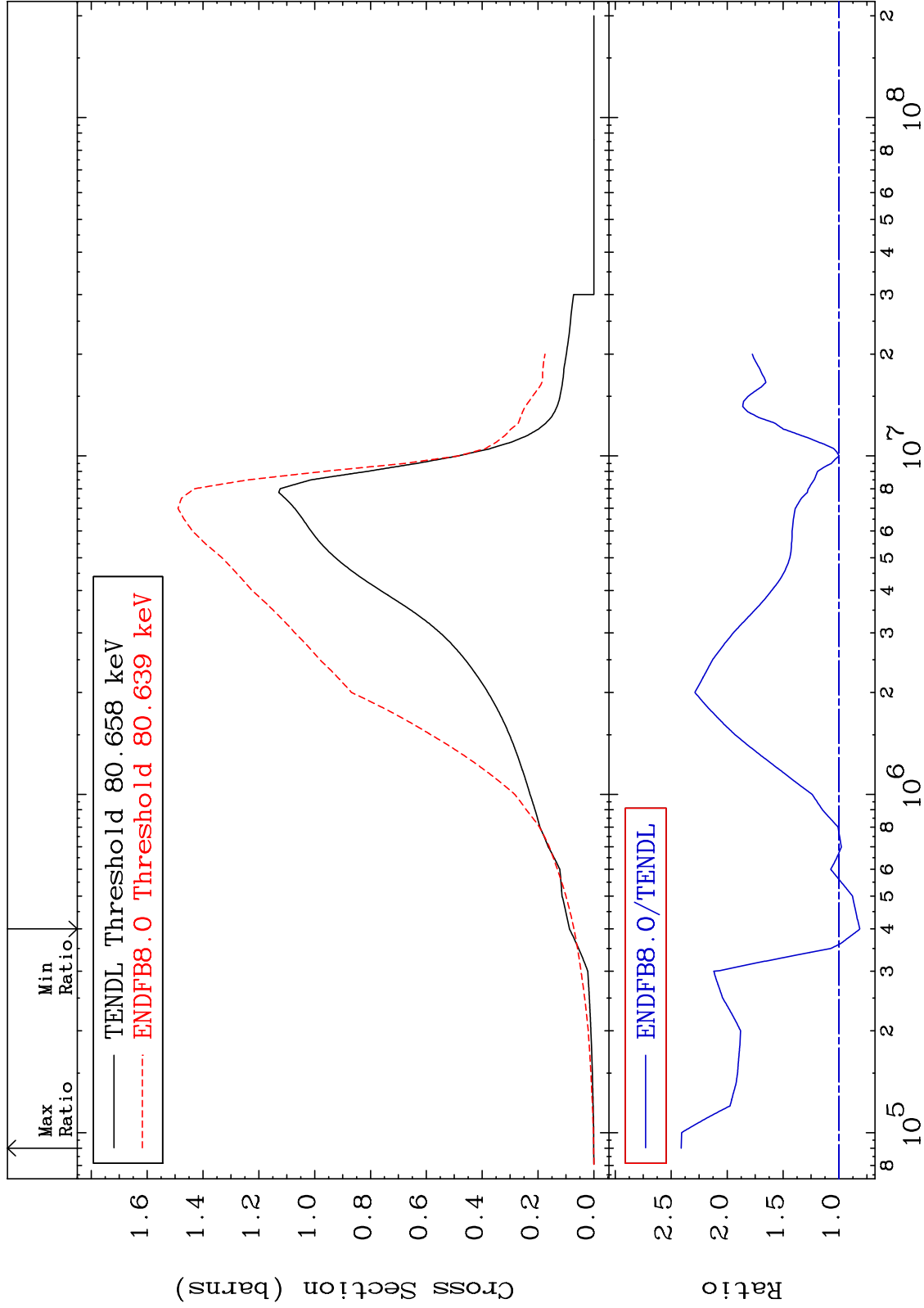


MAT 7731

Inelastic: 77-Ir-193m2

77-Ir-193

Radionuclide Production Cross Section -18.59 To 141.0 %



58

Incident Energy (eV)

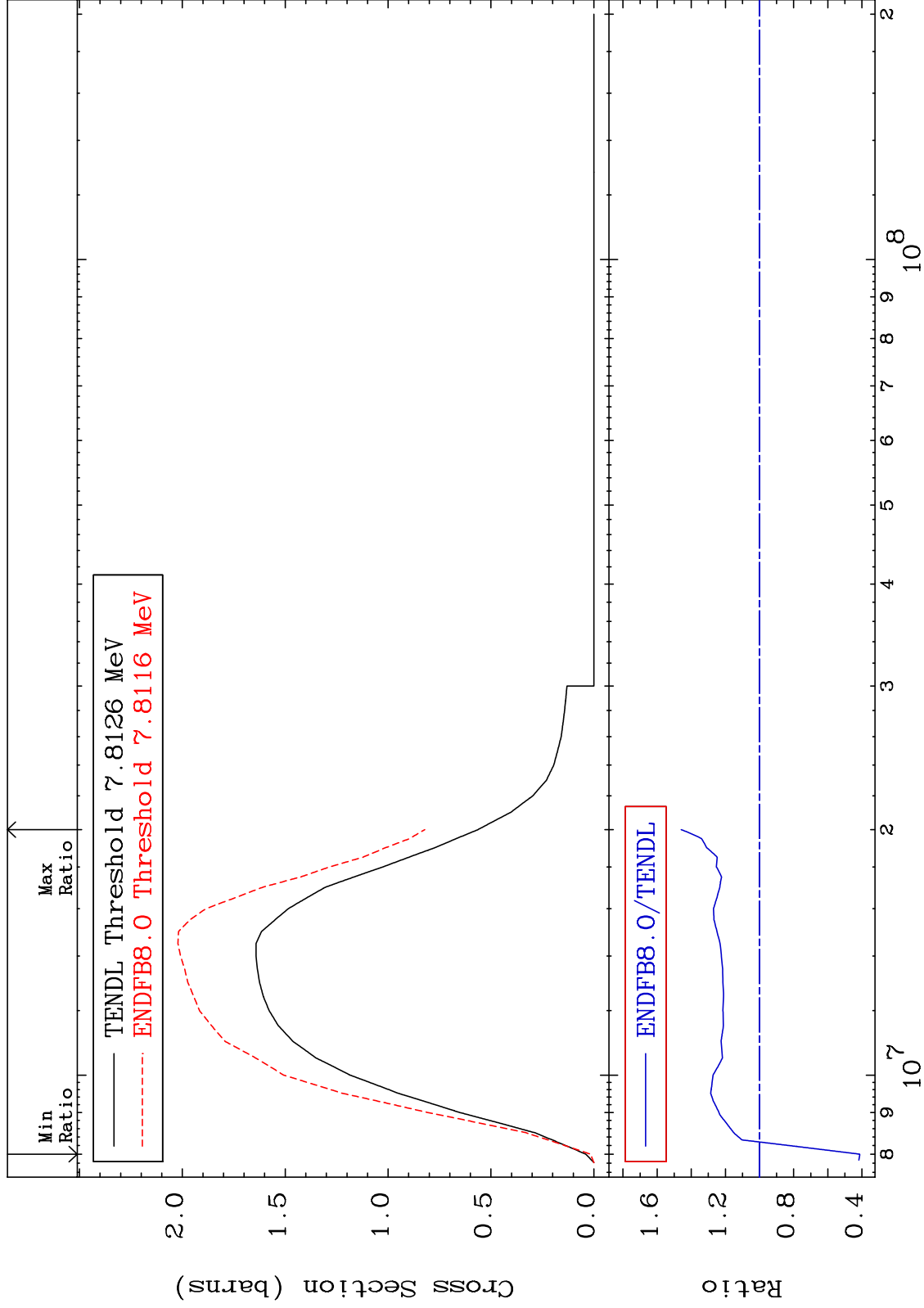
77-Ir-193

MAT 7731

(n,2n):77-Ir-192g

77-Ir-193

Radionuclide Production Cross Section -58.73 To 45.87 %

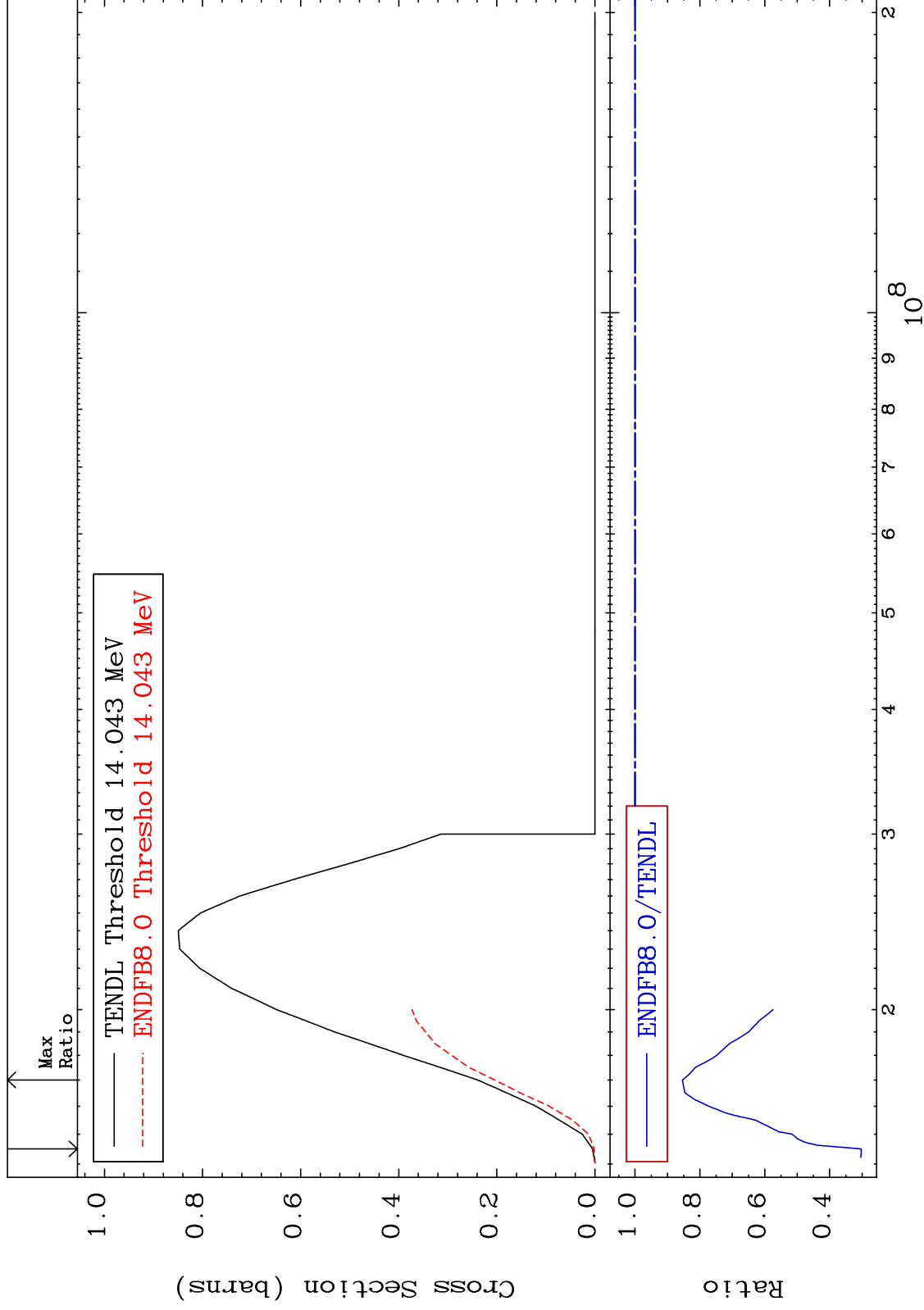


MAT 7731

(n,3n):77-Ir-191g

77-Ir-193

Radionuclide Production Cross Section -69.76 To -14.62%



60

Incident Energy (eV)

77-Ir-193

MAT 7731

(n,3n):77-Ir-191m3

77-Ir-193

Radionuclide Production Cross Section -78.08 To 68.48 %

