

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

MAT 7731

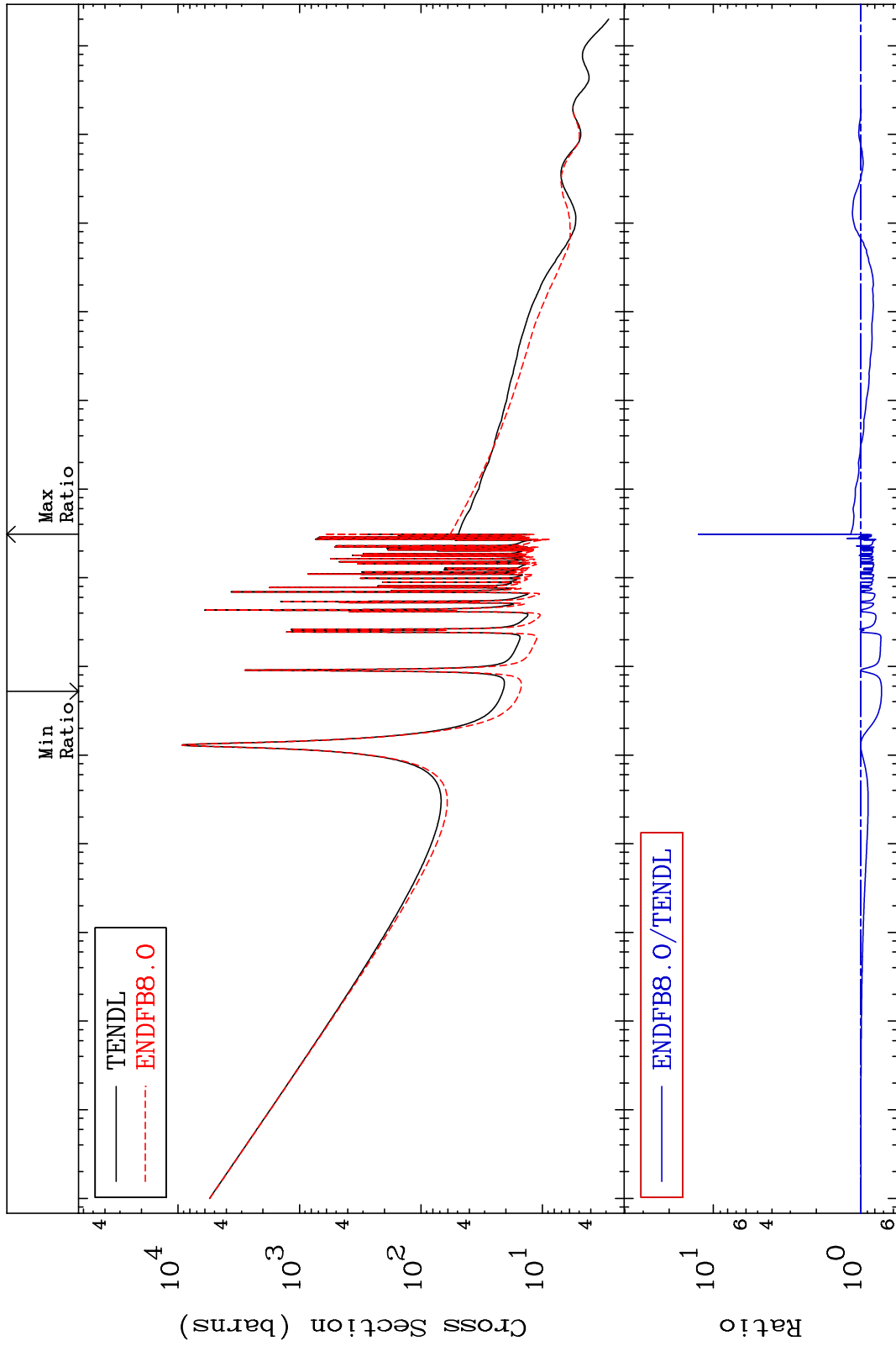
77-Ir-193

-27.92 To 1165. %

Total
Cross Section

Min
Ratio

Max
Ratio



Incident Energy (eV)

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

77-Ir-193

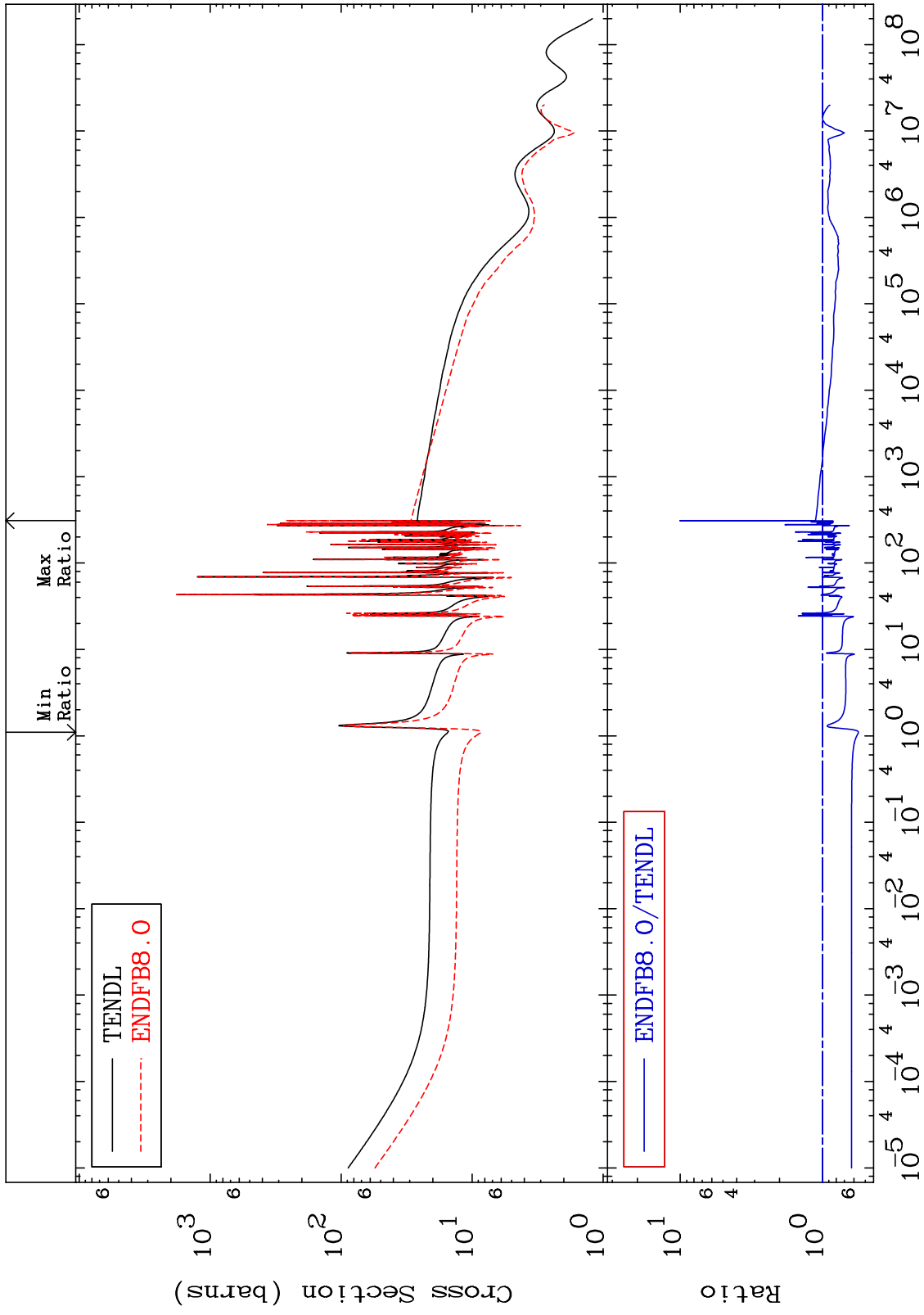
MAT 7731

Elastic

77-Ir-193

Cross Section

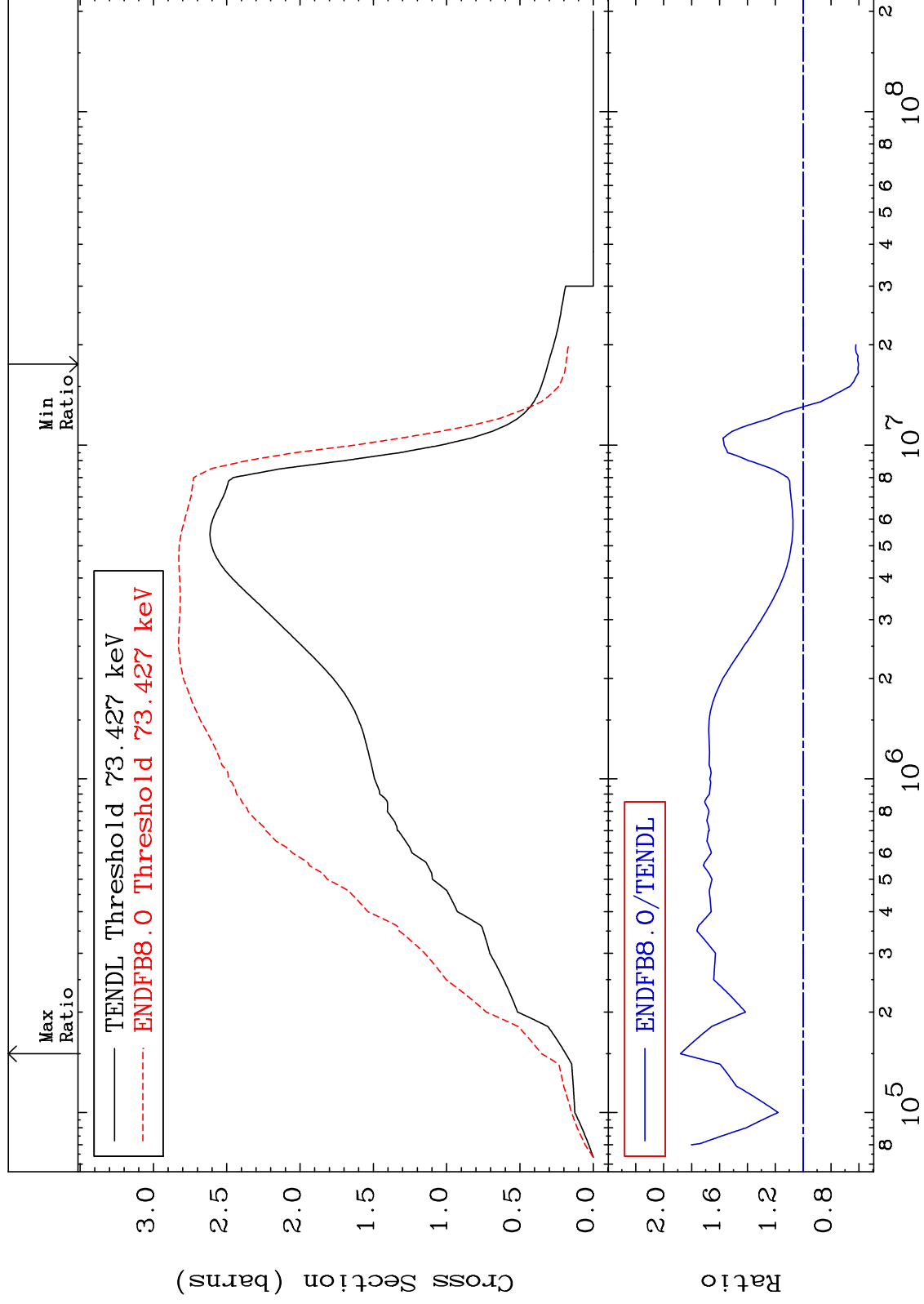
-44.11 To 906.0 %



MAT 7731

Inelastic
Cross Section

77-Ir-193
-39.74 To 88.00 %



3

Incident Energy (eV)

77-Ir-193

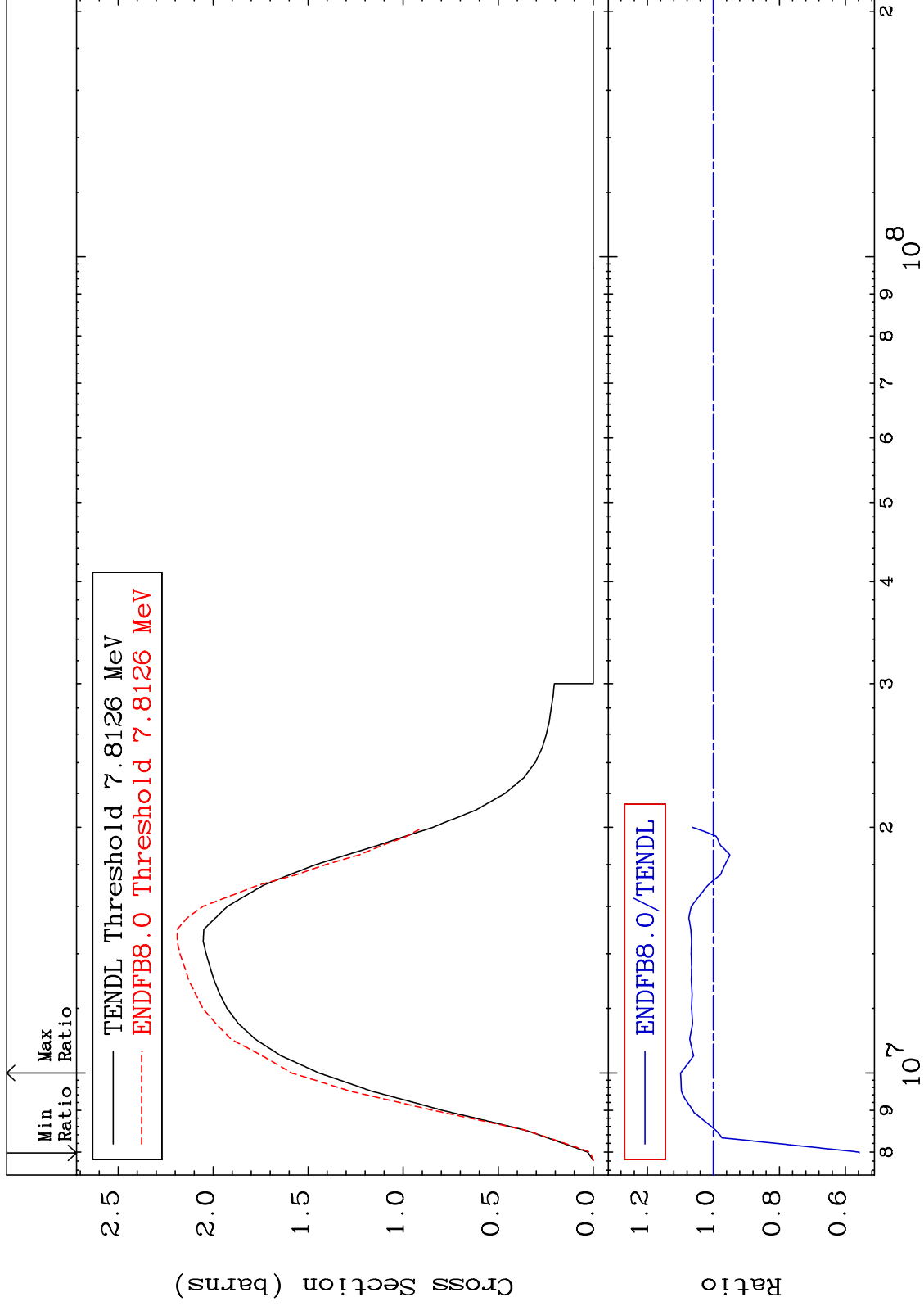
MAT 7731

(n,2n)

⁷⁷Ir-193

Cross Section

-44.19 To 9.941 %



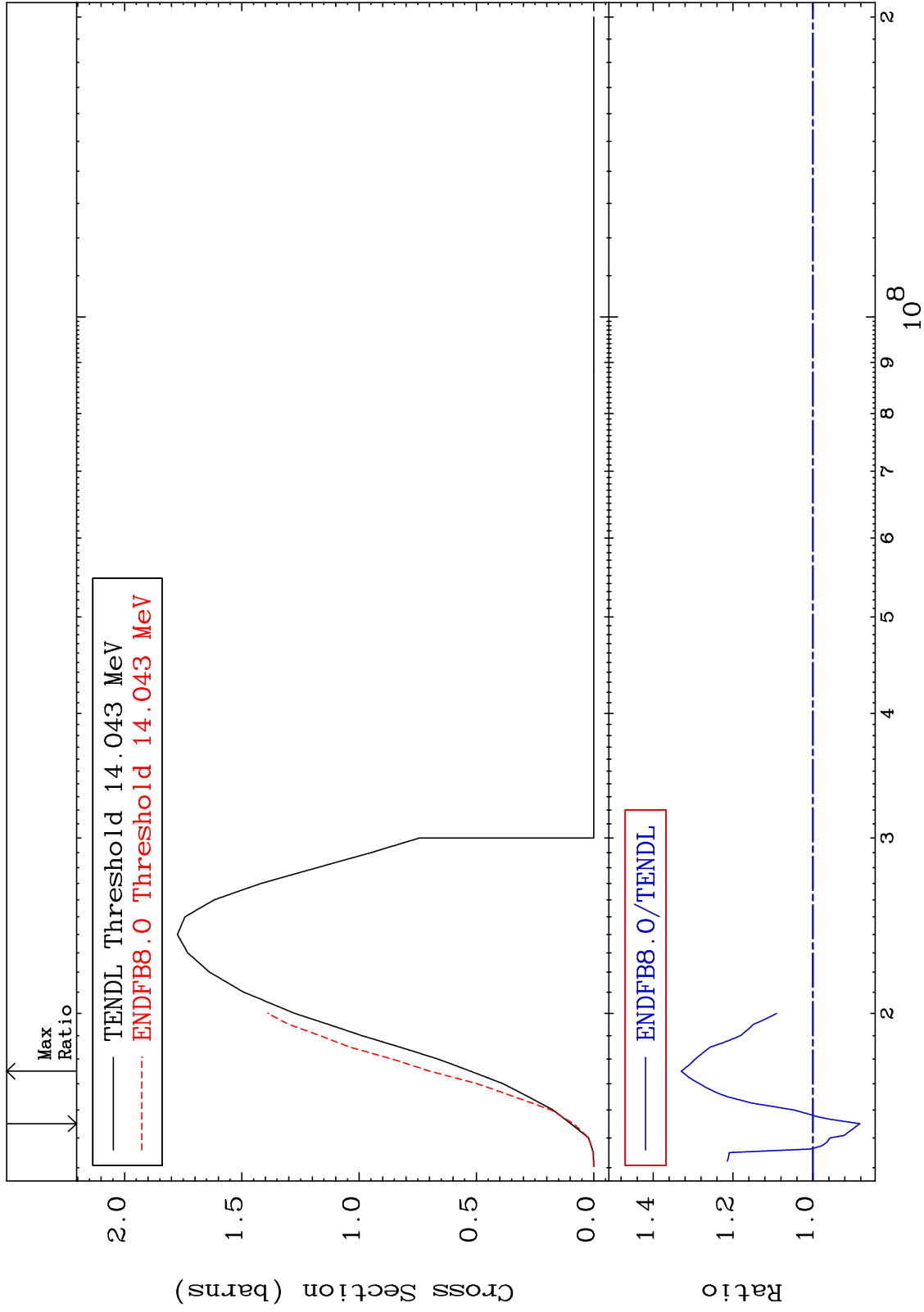
MAT 7731

(n, 3n)

⁷⁷Ir-193

Cross Section

-11.79 To 32.96 %



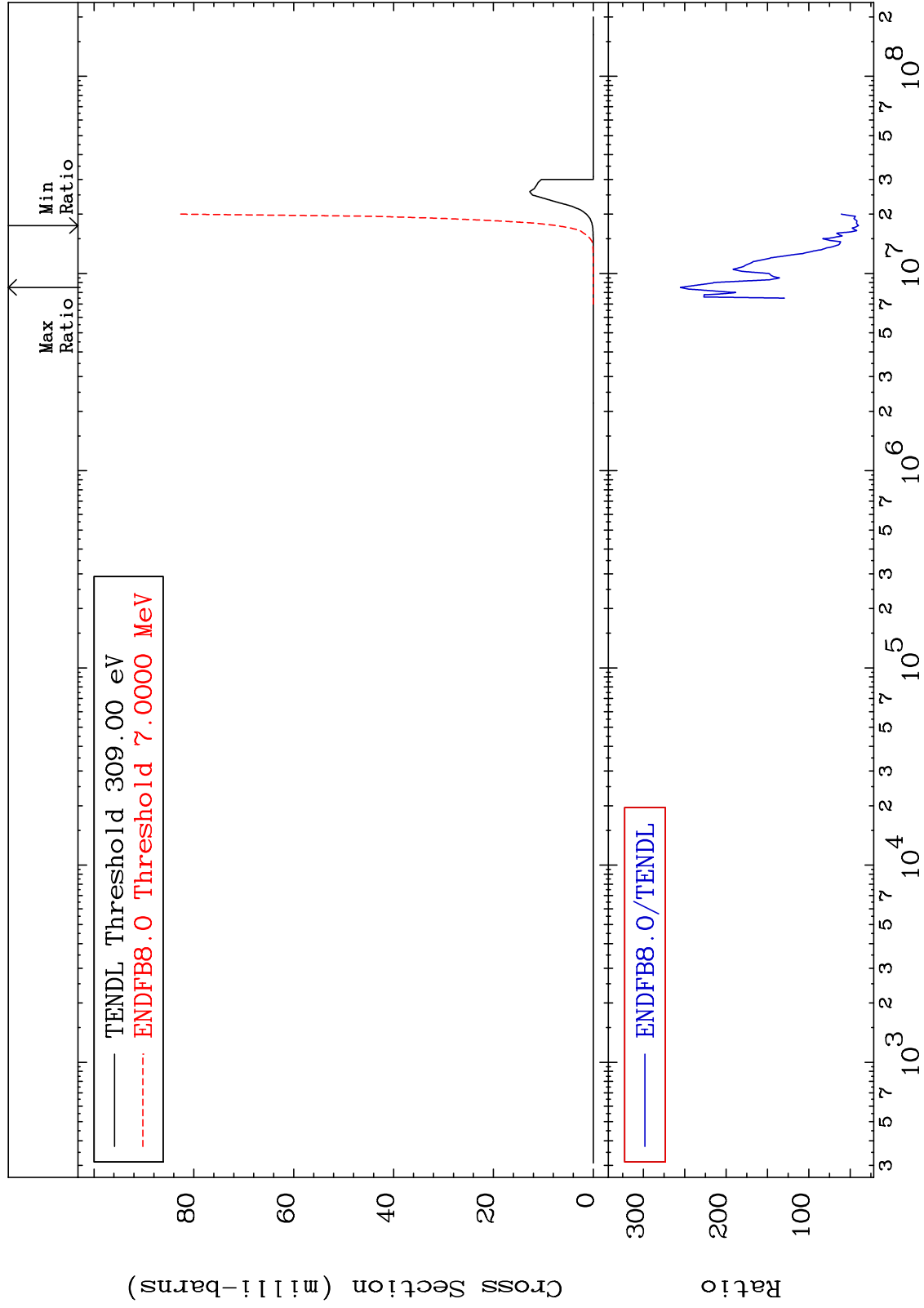
MAT 7731

(n,n') α

Cross Section

⁷⁷Ir-193

3898. To 9999. %



6

Incident Energy (eV)

⁷⁷Ir-193

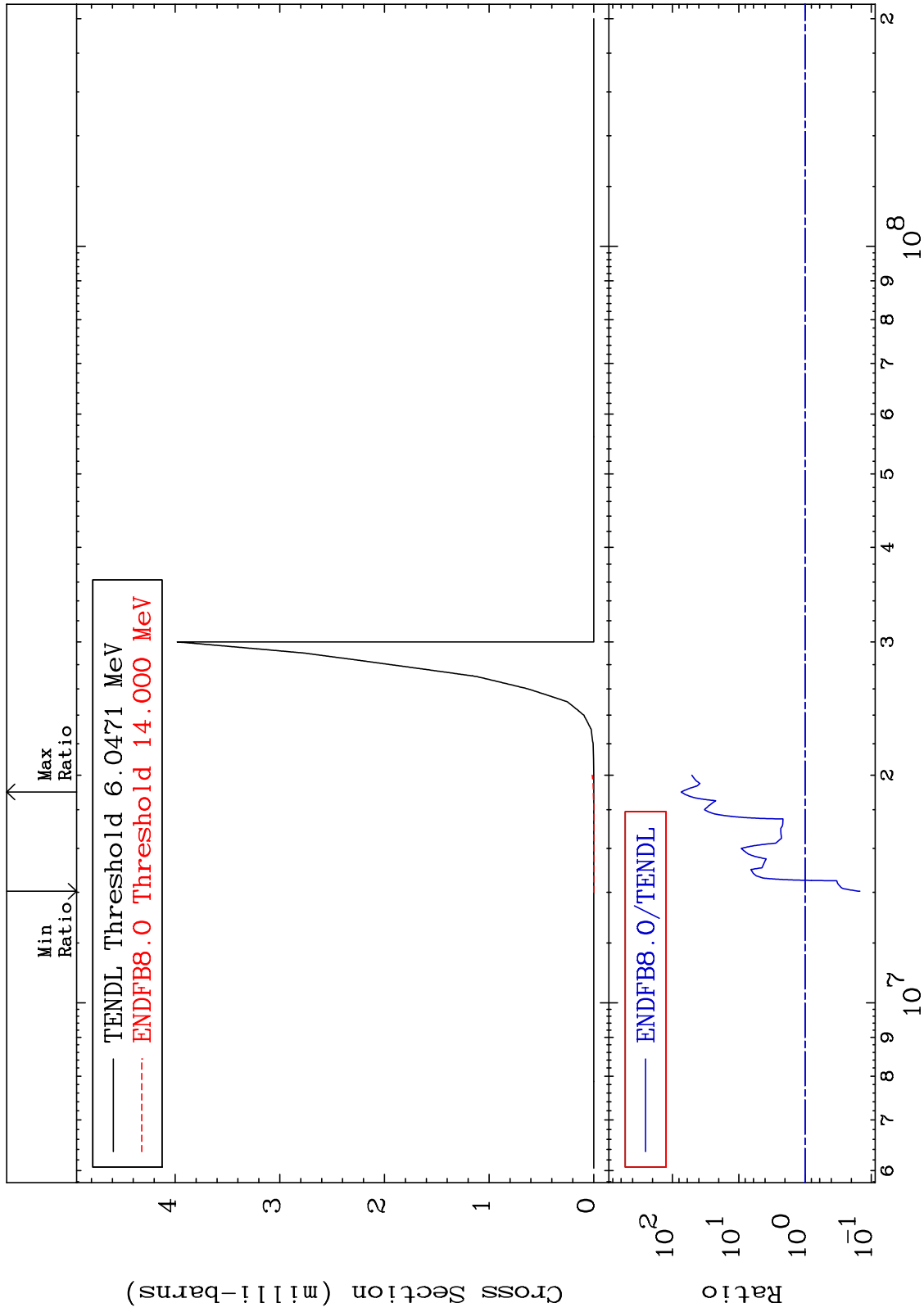
MAT 7731

(n,2n) α

77-Ir-193

Cross Section

-85.19 To 7288. %



7

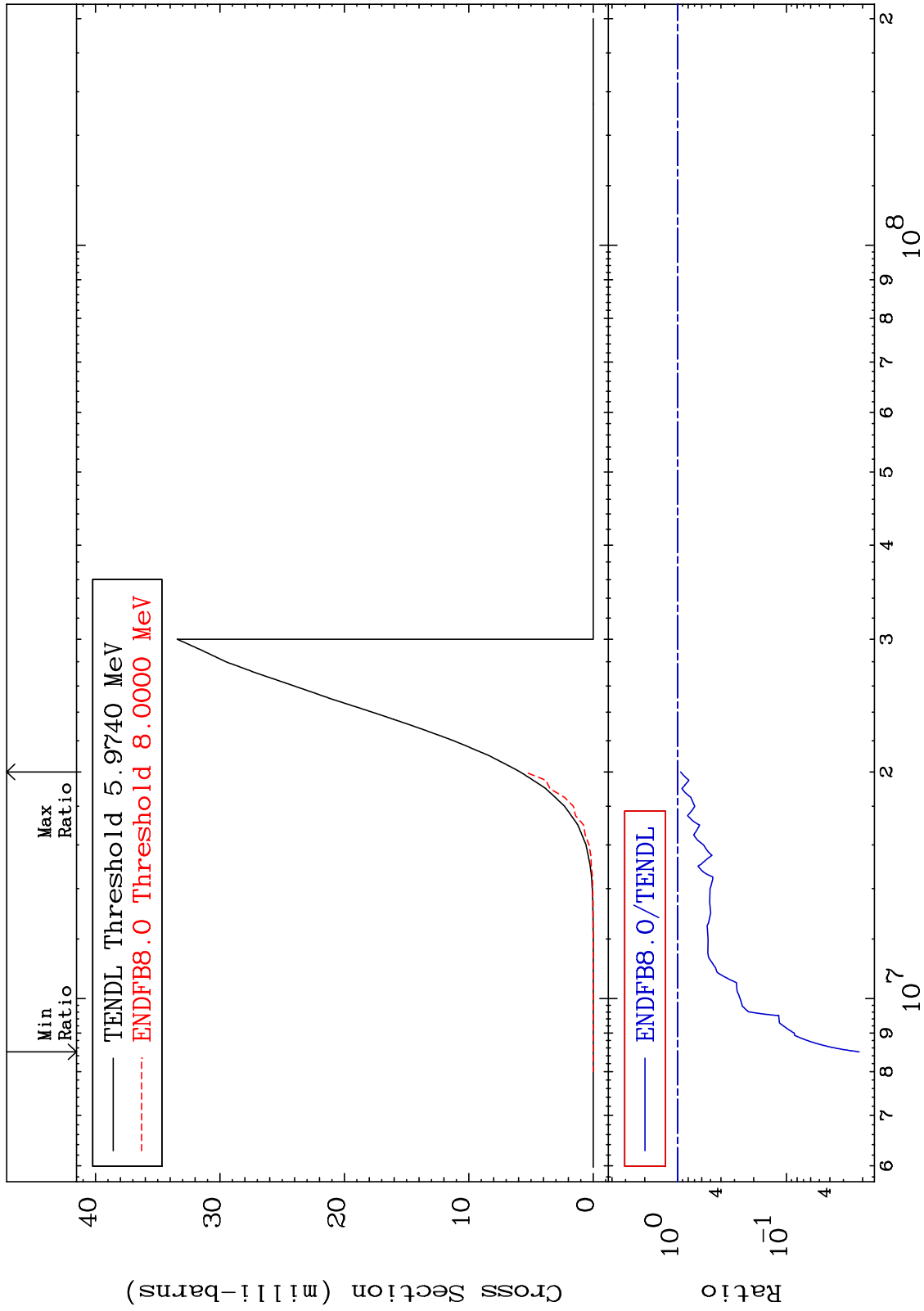
Incident Energy (eV)

77-Ir-193

MAT 7731

(n,n') p
Cross Section

⁷⁷Ir-193
-97.85 To -6.237%



8

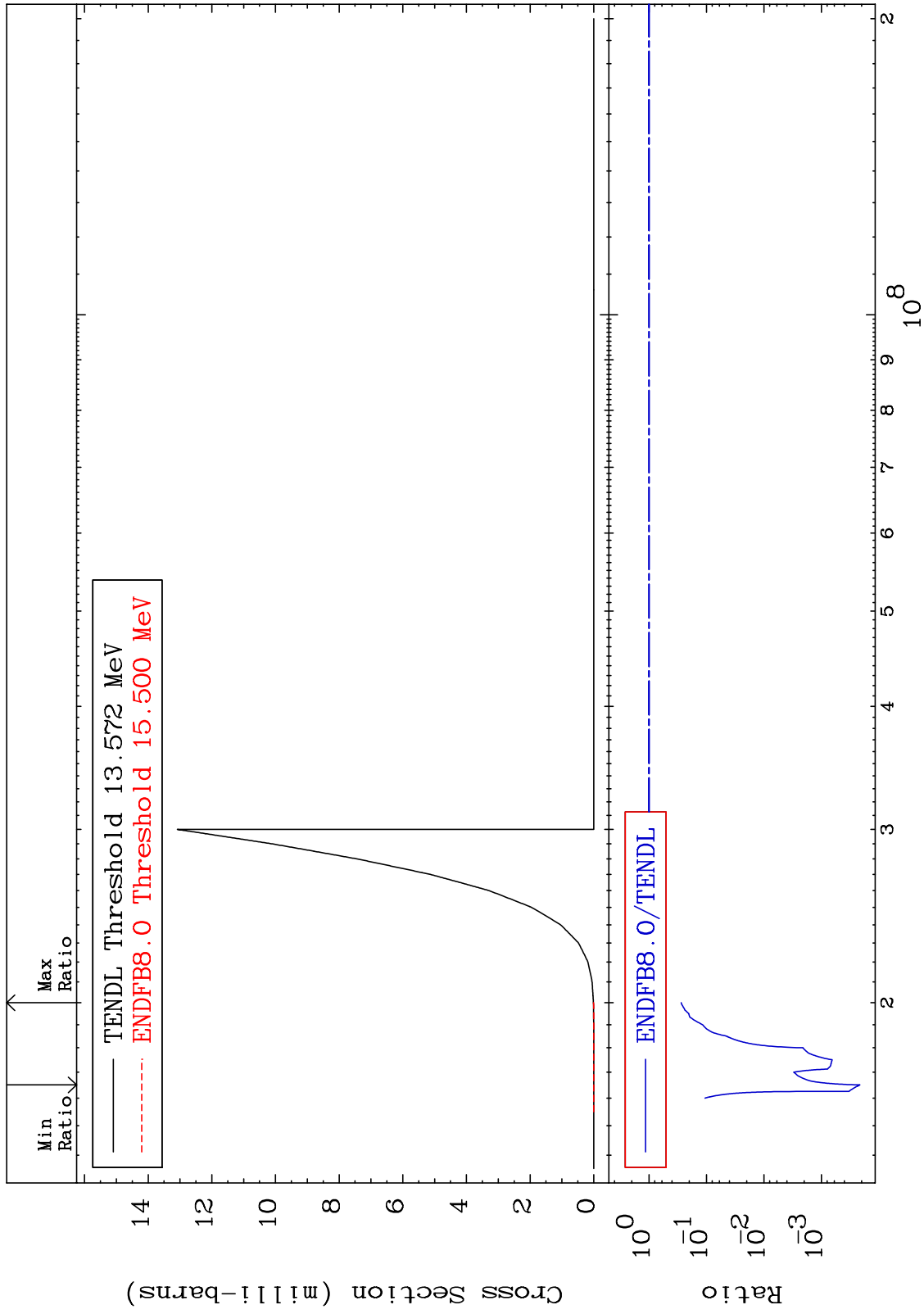
Incident Energy (eV)

⁷⁷Ir-193

MAT 7731

(n,2n) p
Cross Section

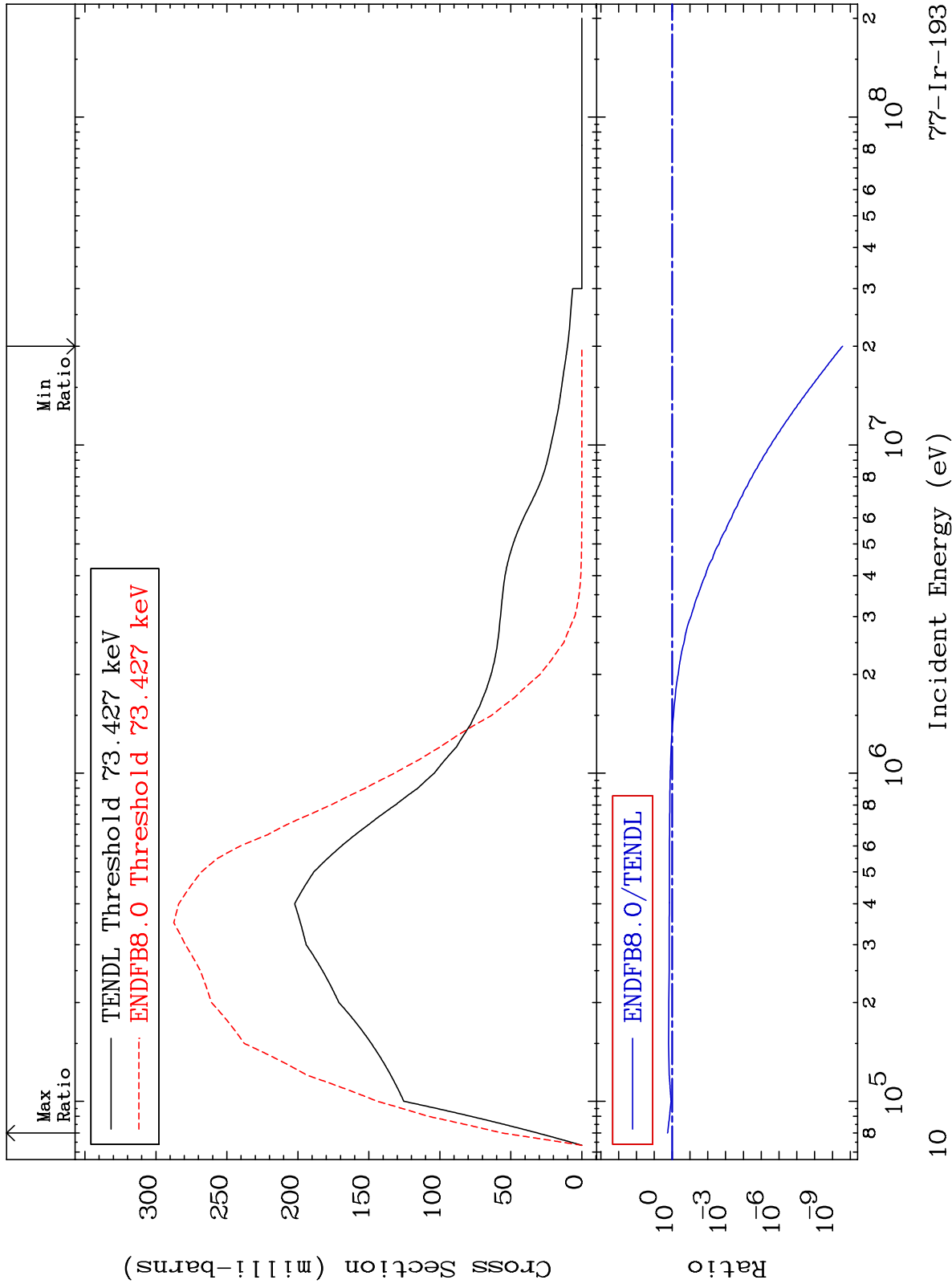
⁷⁷Ir-193
-99.98 To -72.38%



MAT 7731

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

77-Ir-193
-100.0 To 80.22 %

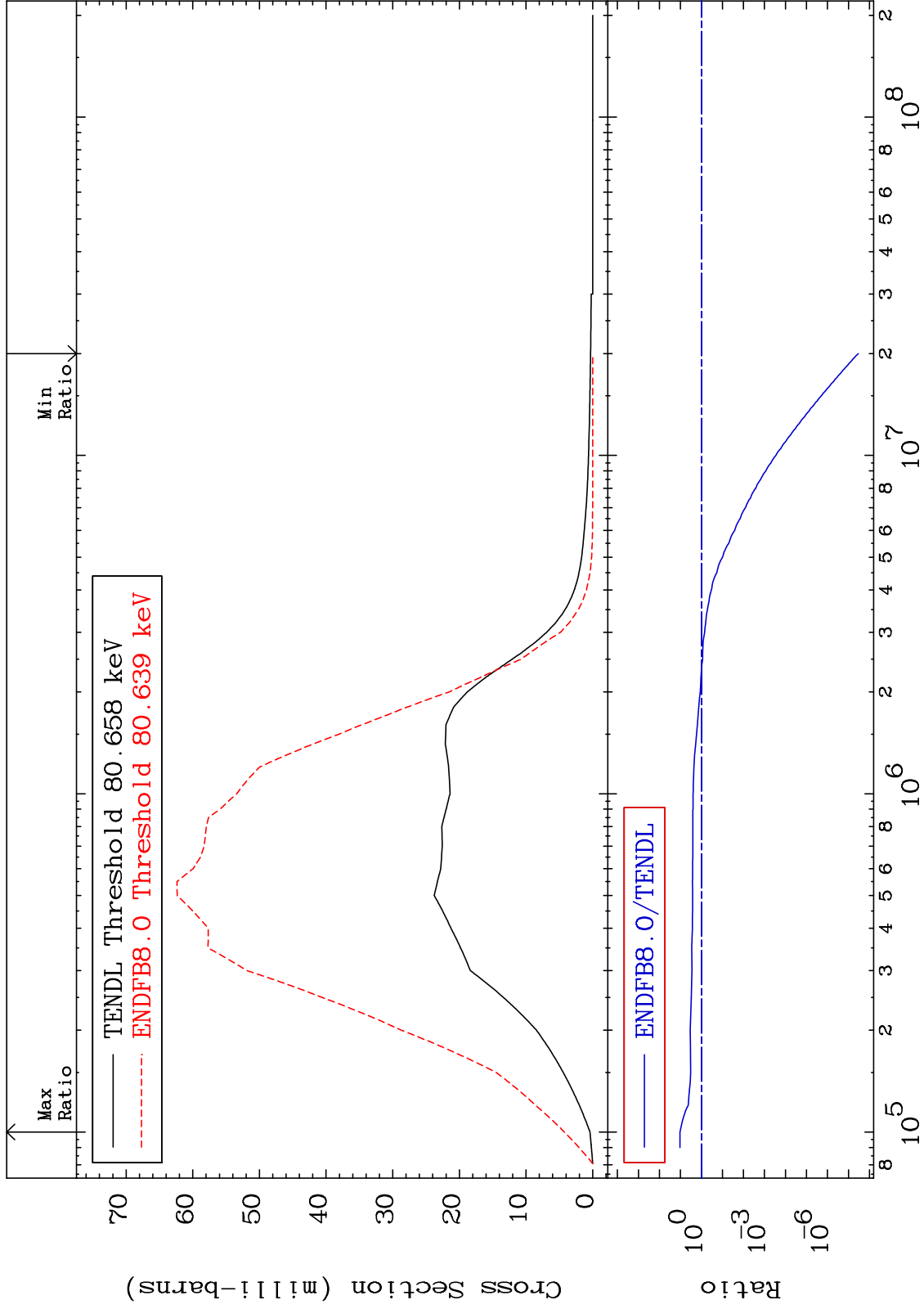


77-Ir-193

MAT 7731

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

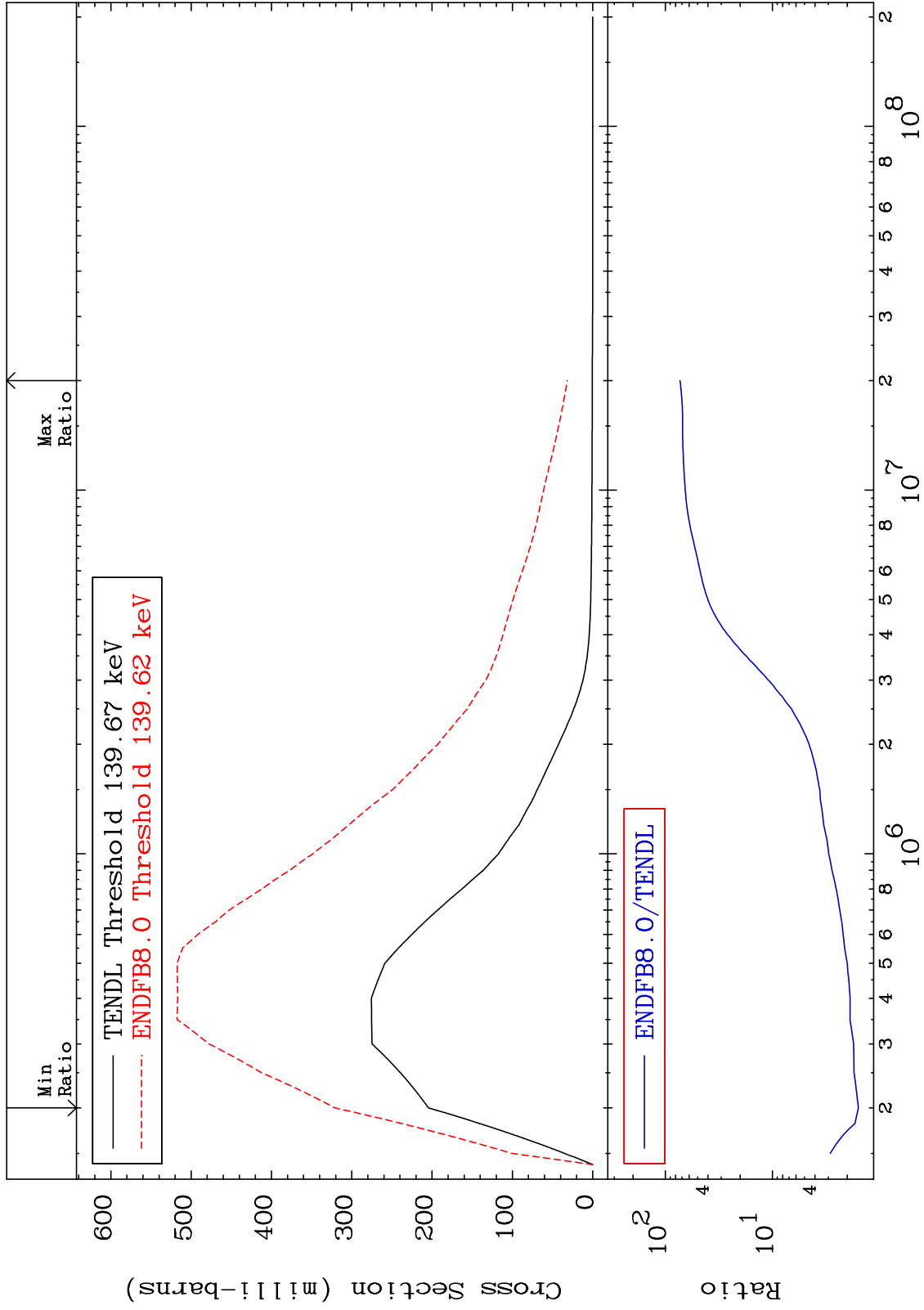
77-Ir-193
-100.0 To 947.7 %



MAT 7731

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

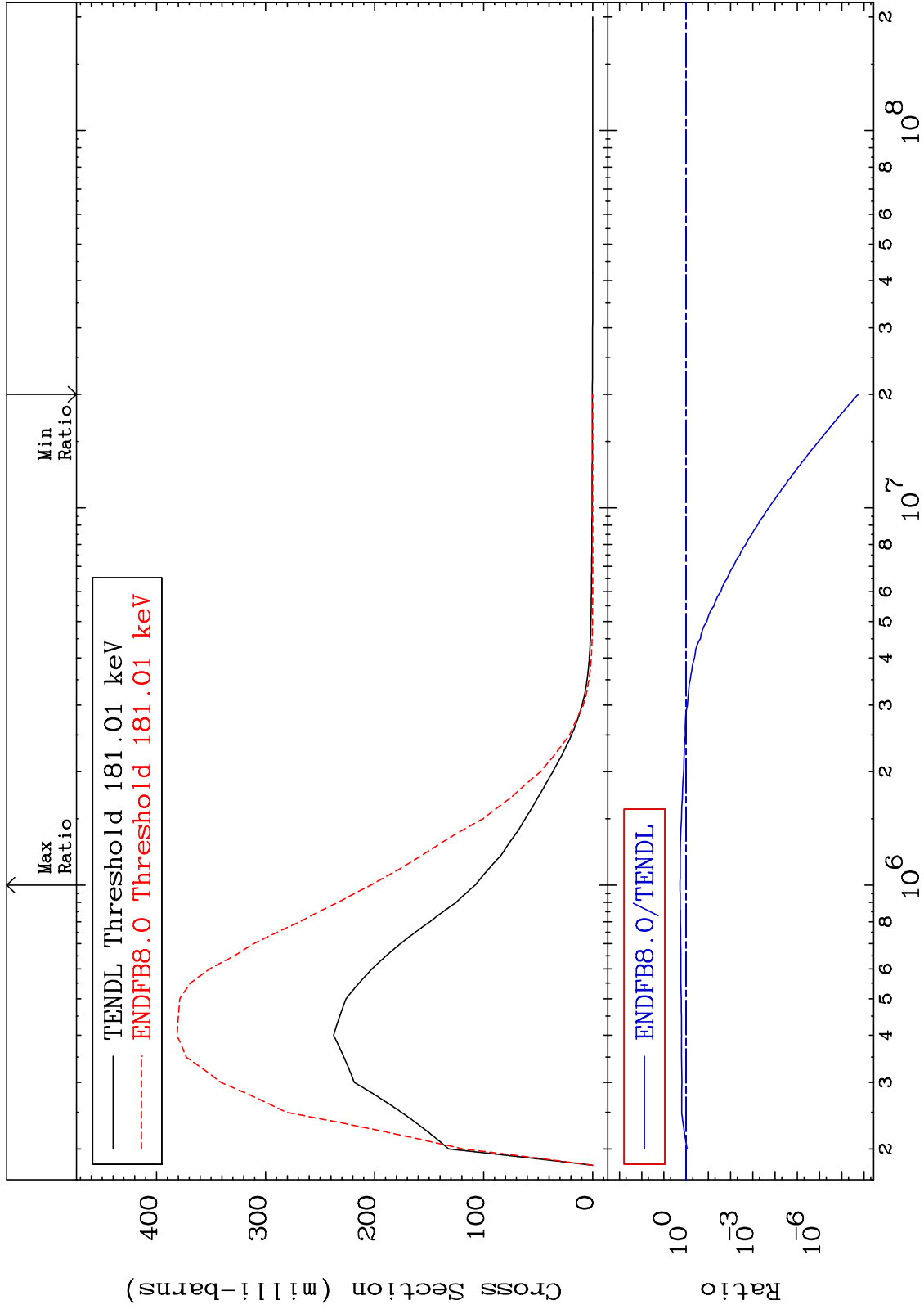
77-Ir-193
56.93 To 7186. %



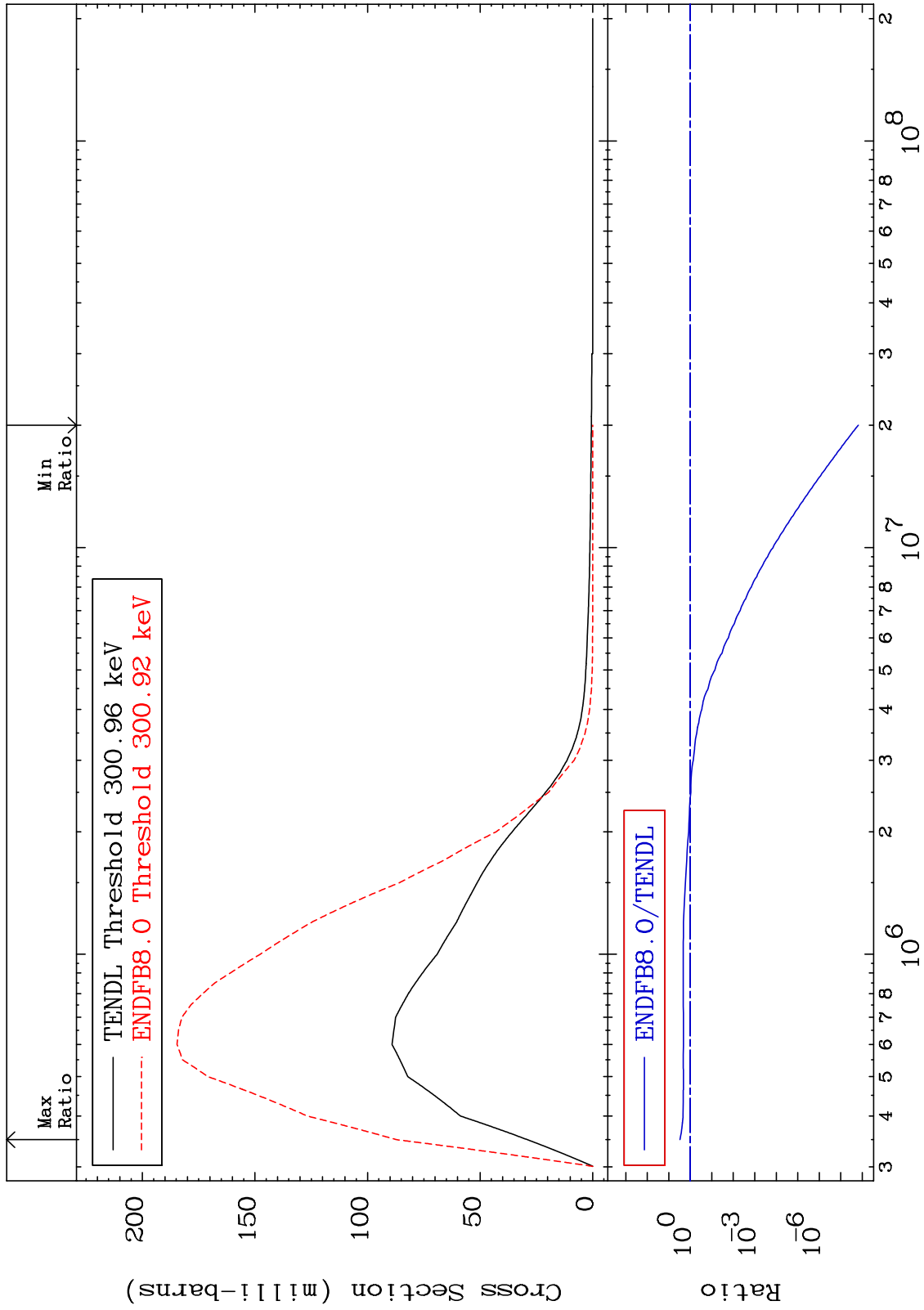
MAT 7731

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

77-Ir-193
-100.0 To 88.69 %



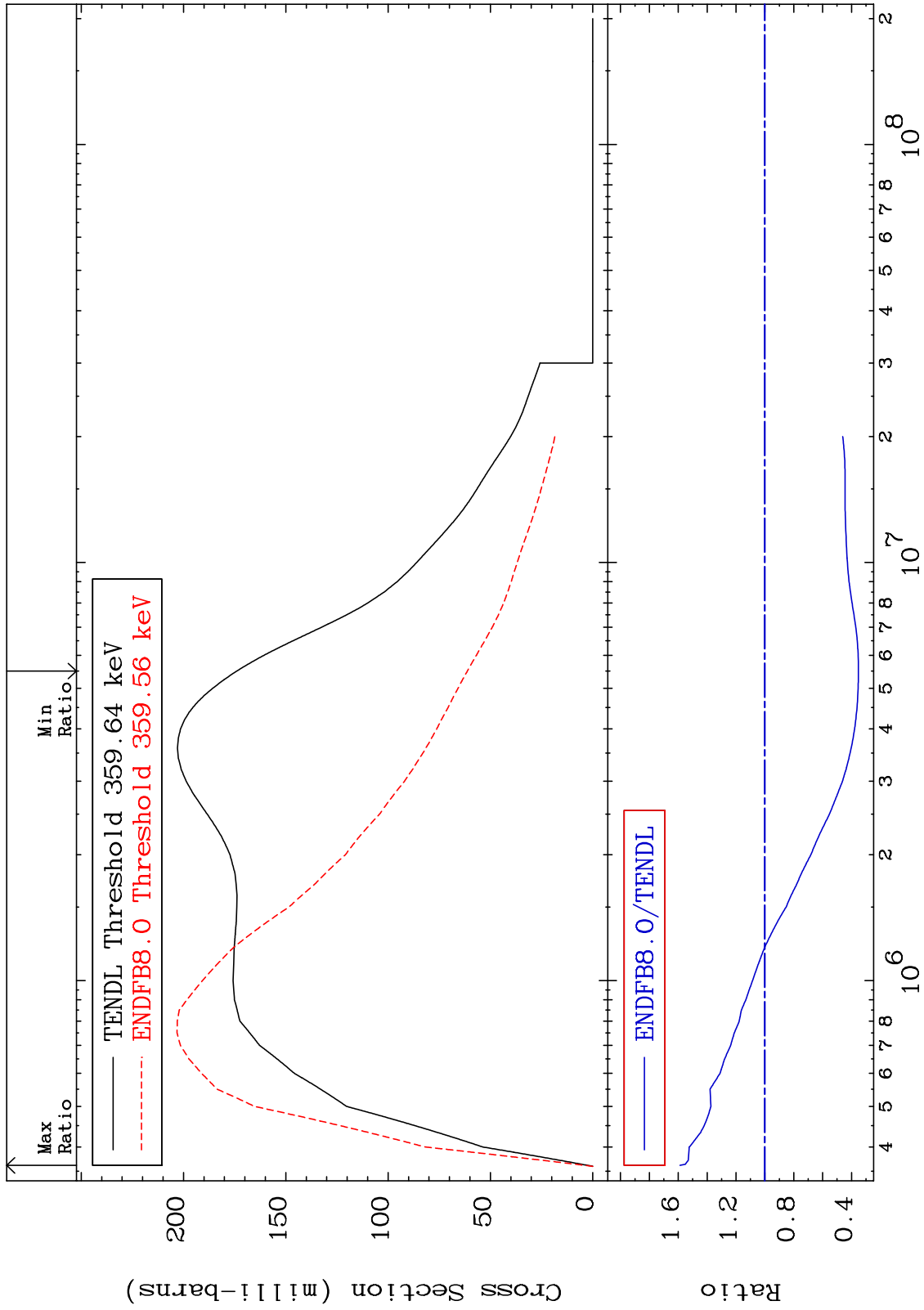
MAT 7731 MT= 55 (n,n') Level Cross Section -100.0 To 199.9 % 77-Ir-193



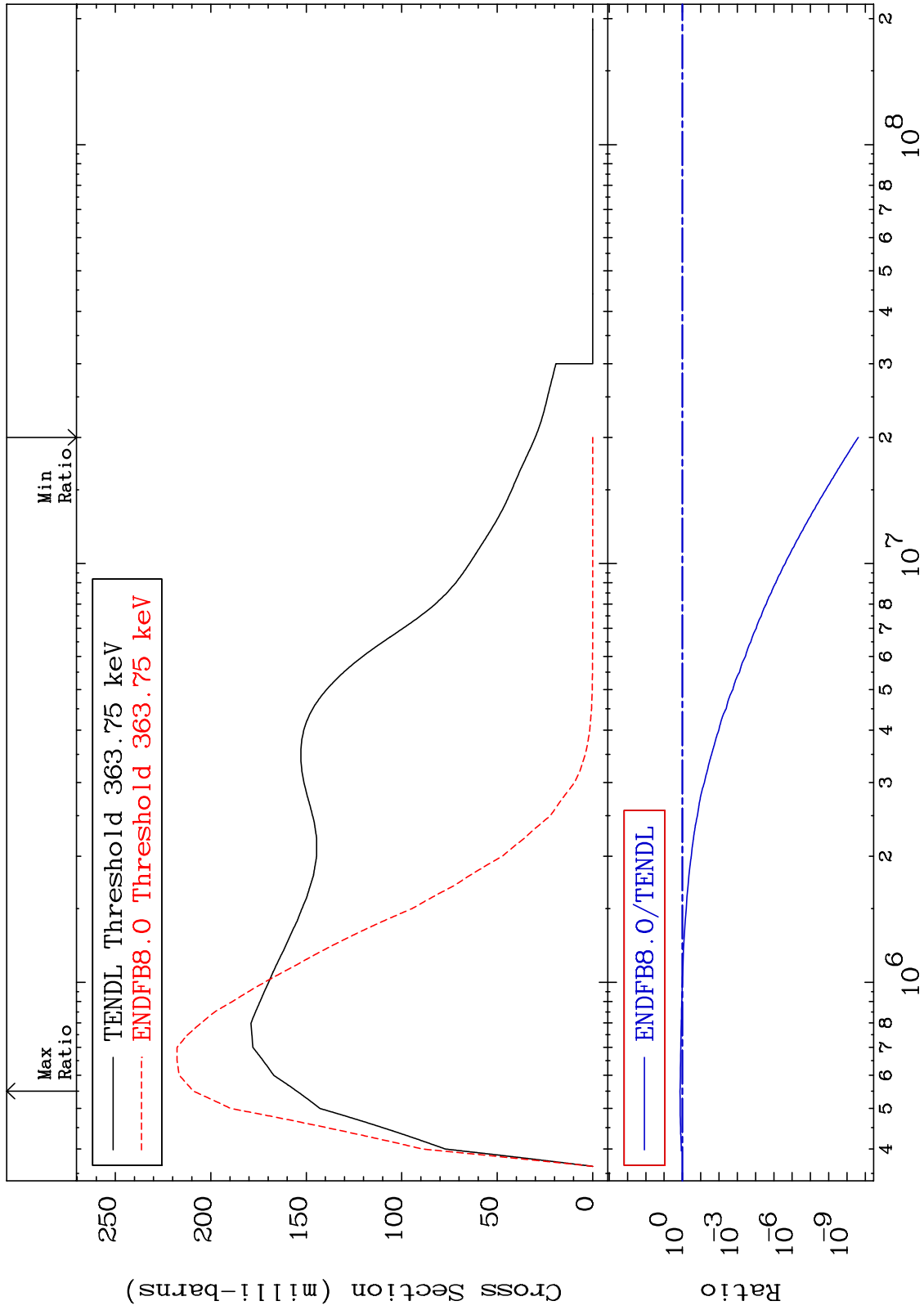
MAT 7731

MT= 56 (n,n') Level
Cross Section

77-Ir-193
-64.78 To 58.78 %



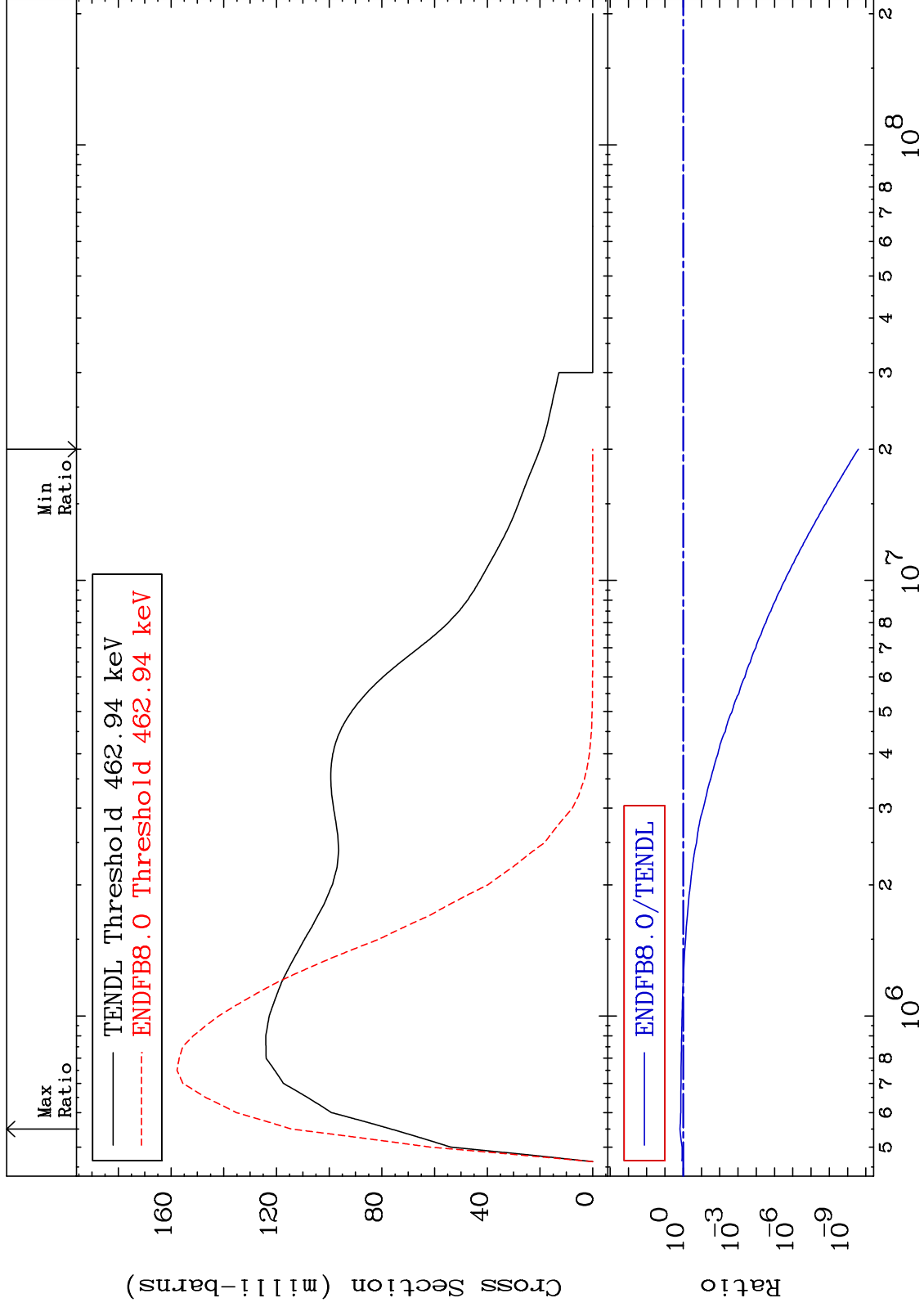
MAT 7731 MT= 57 (n,n') Level Cross Section -100.0 To 35.00 % 77-Ir-193



MAT 7731

MT= 58 (n,n') Level
Cross Section

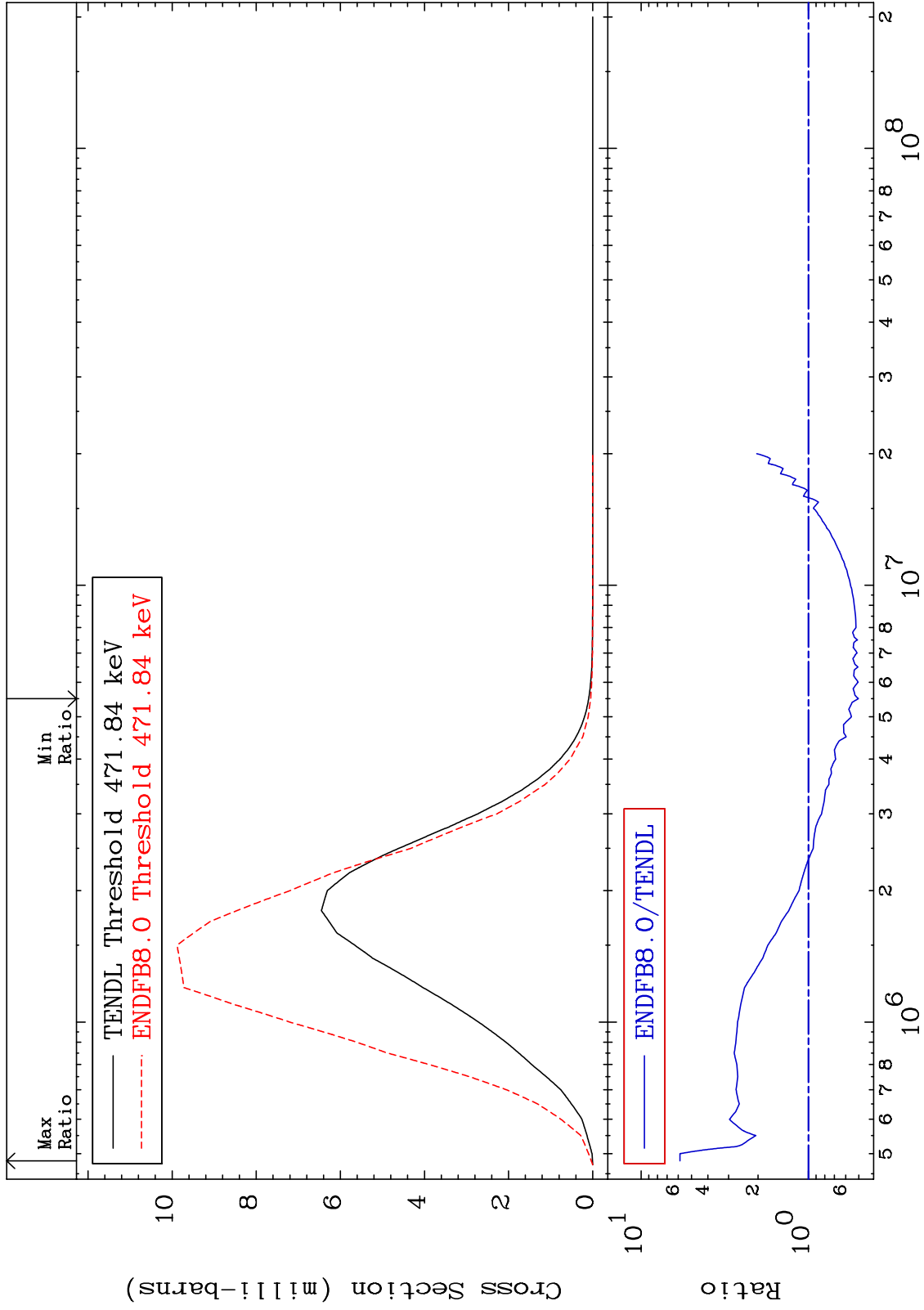
77-Ir-193
-100.0 To 49.46 %



MAT 7731

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

77-Ir-193
-49.68 To 486.0 %



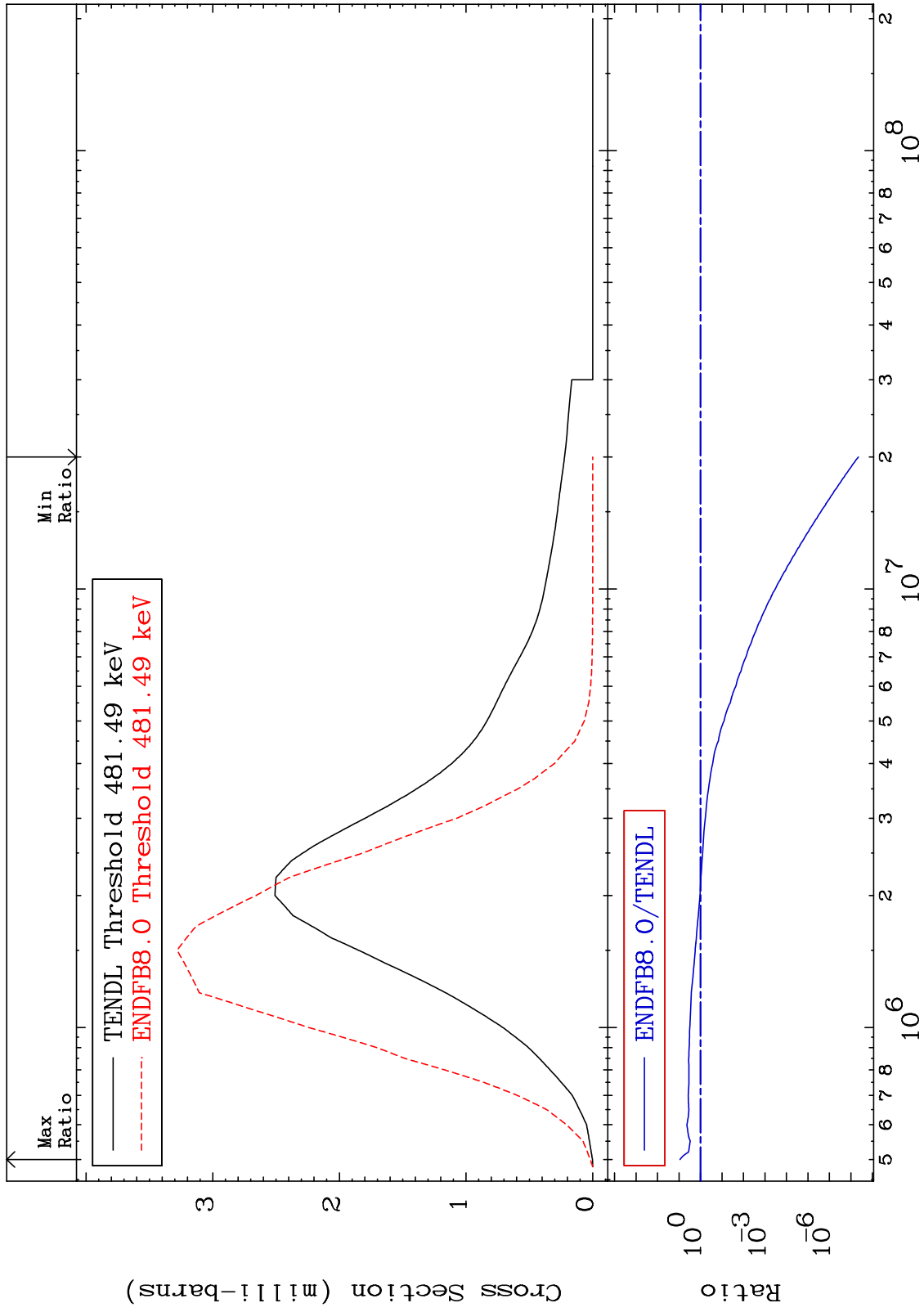
18

77-Ir-193

MAT 7731

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

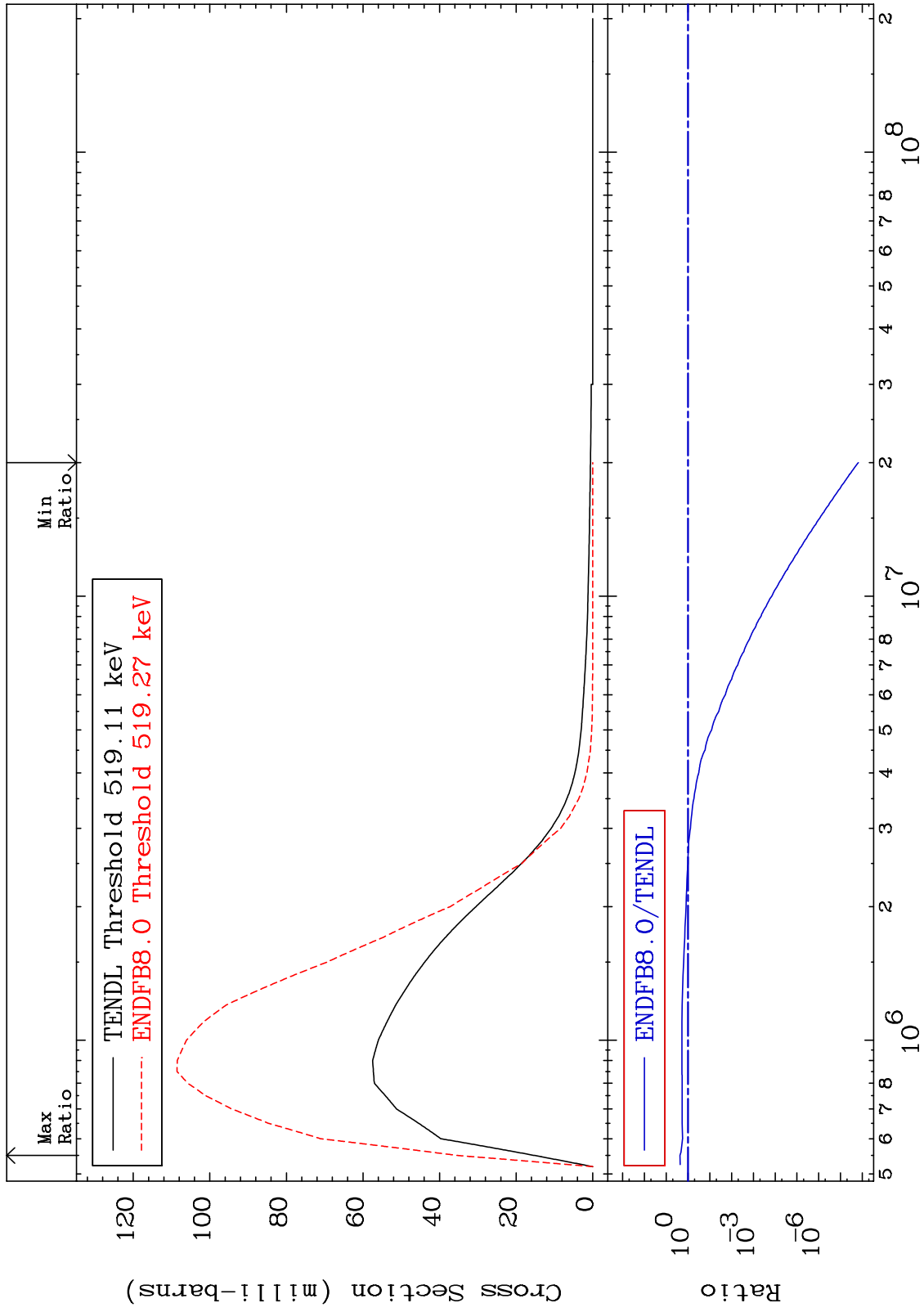
77-Ir-193
-100.0 To 796.1 %



MAT 7731

MT= 61 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 132.6 %



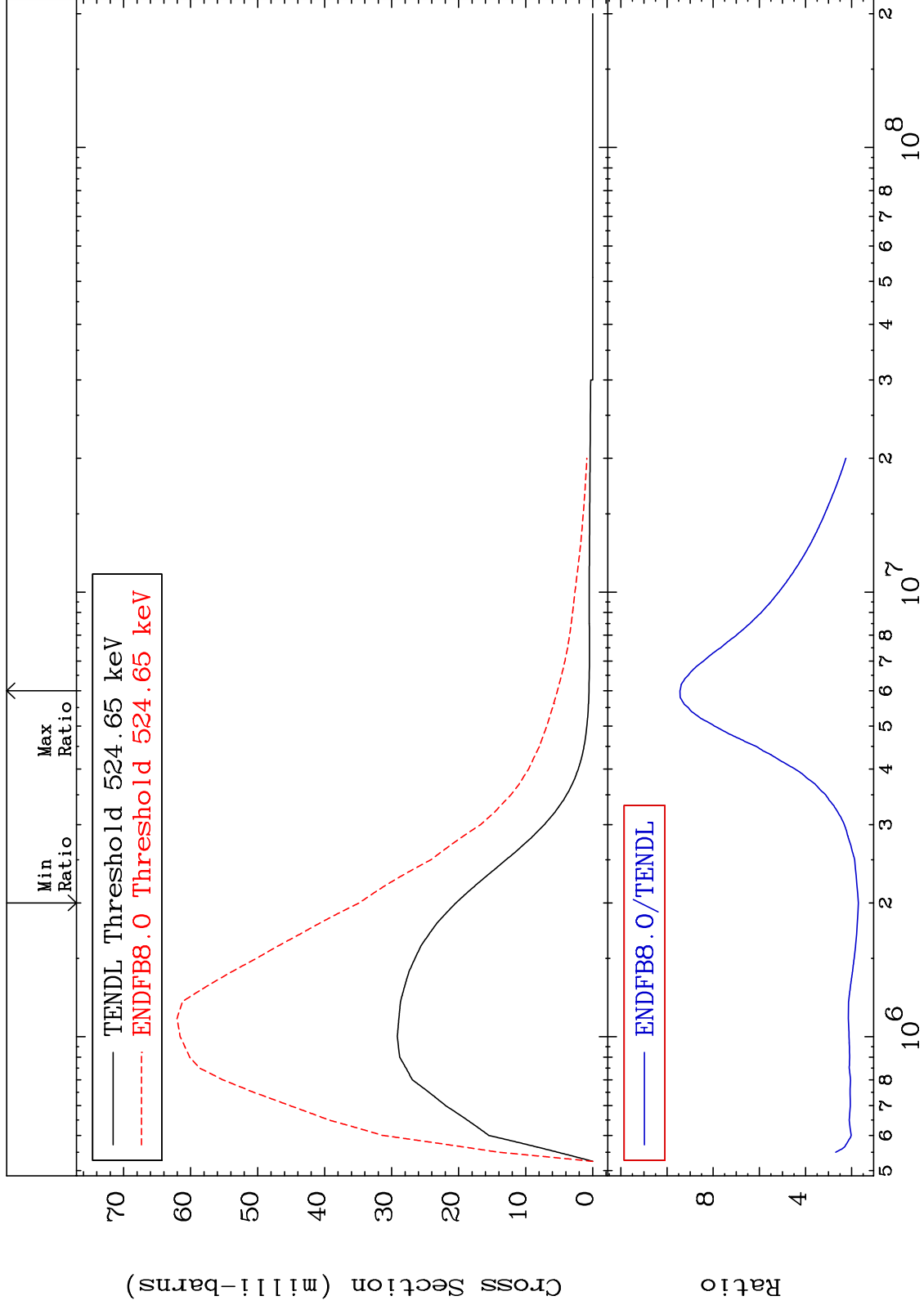
20

77-Ir-193

MAT 7731

MT= 62 (n,n') Level
Cross Section

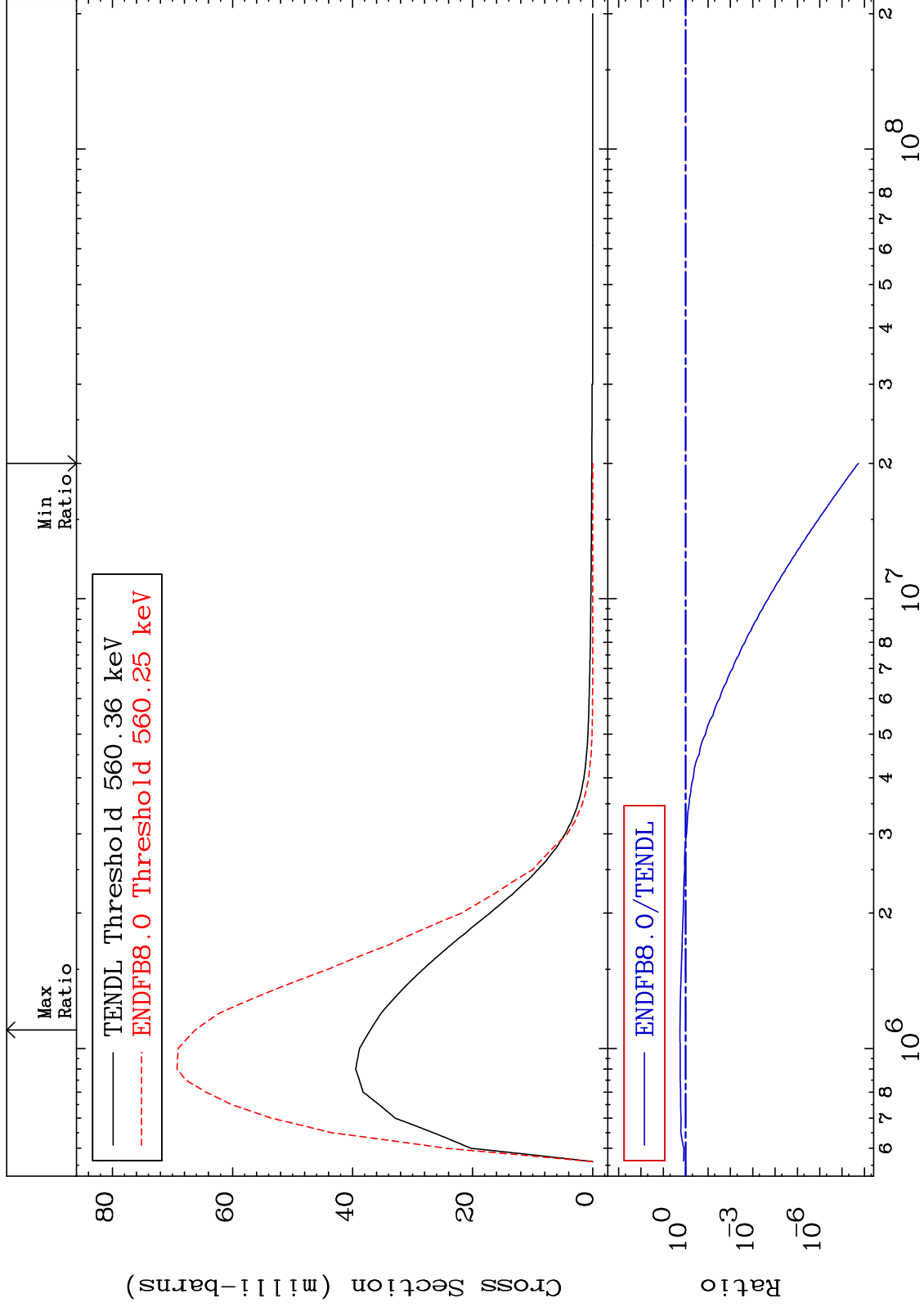
77-Ir-193
70.76 To 843.7 %



MAT 7731

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

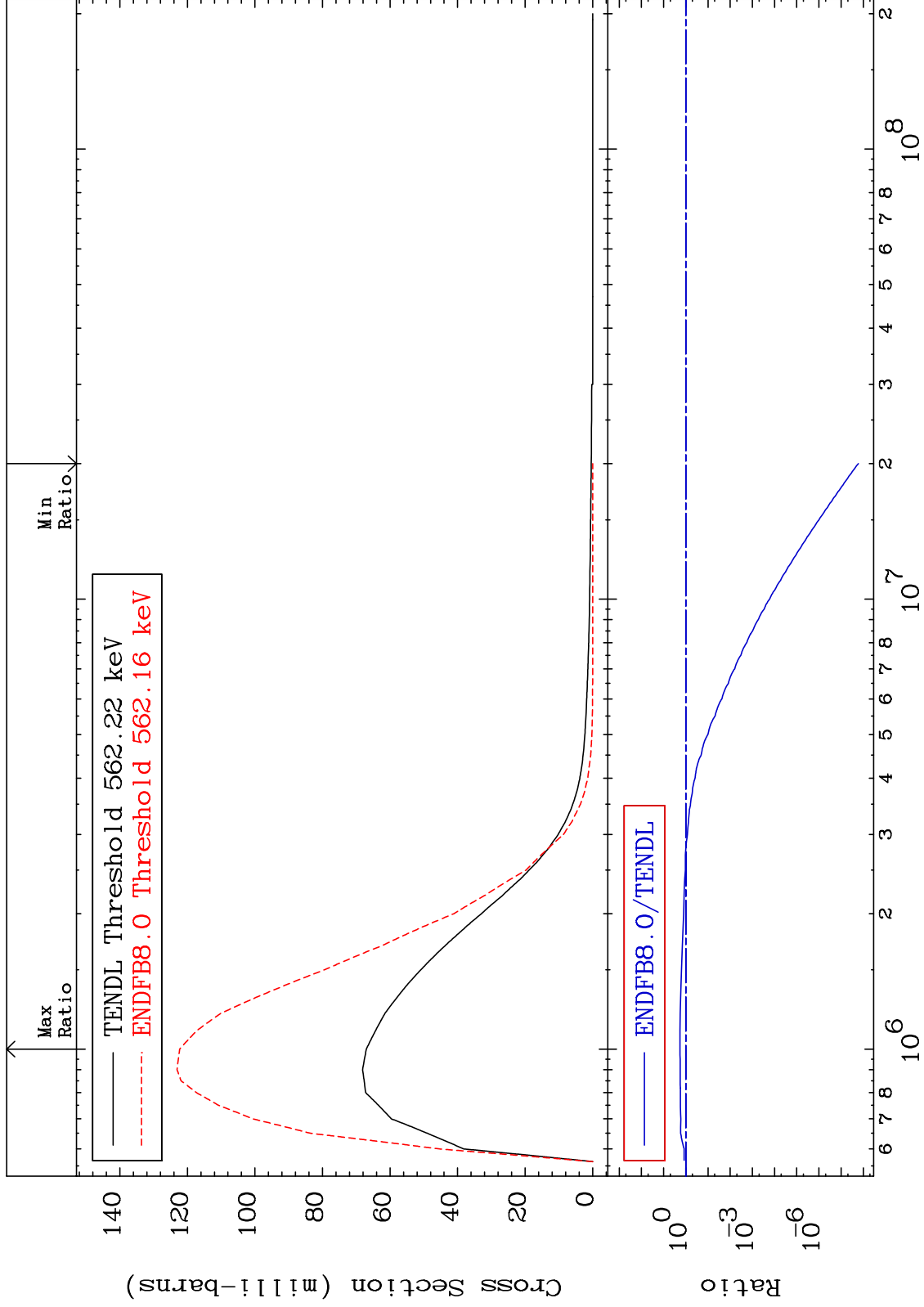
⁷⁷Ir-193
-100.0 To 78.83 %



MAT 7731

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

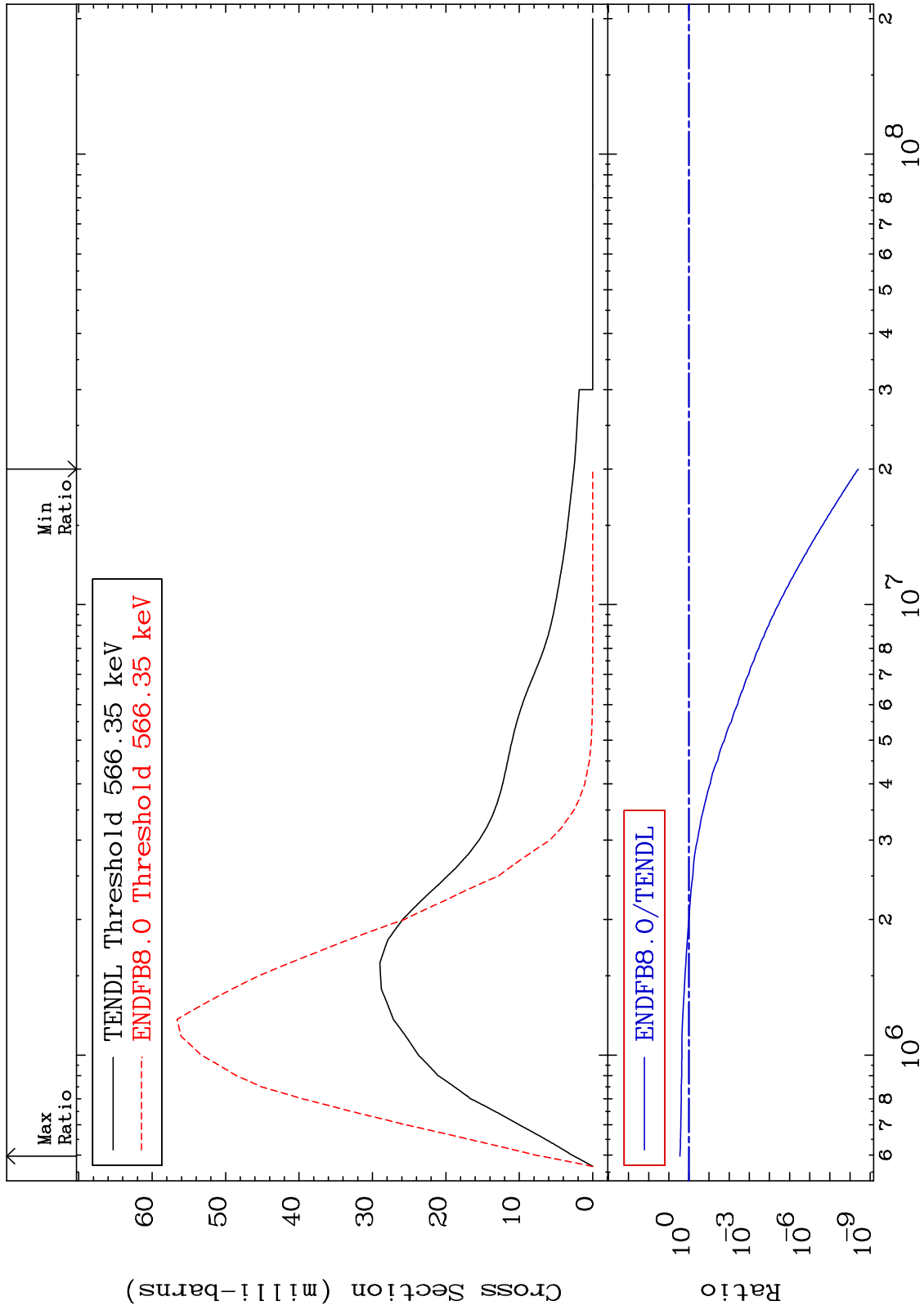
77-Ir-193
-100.0 To 82.47 %



MAT 7731

MT= 65 (n,n') Level
Cross Section

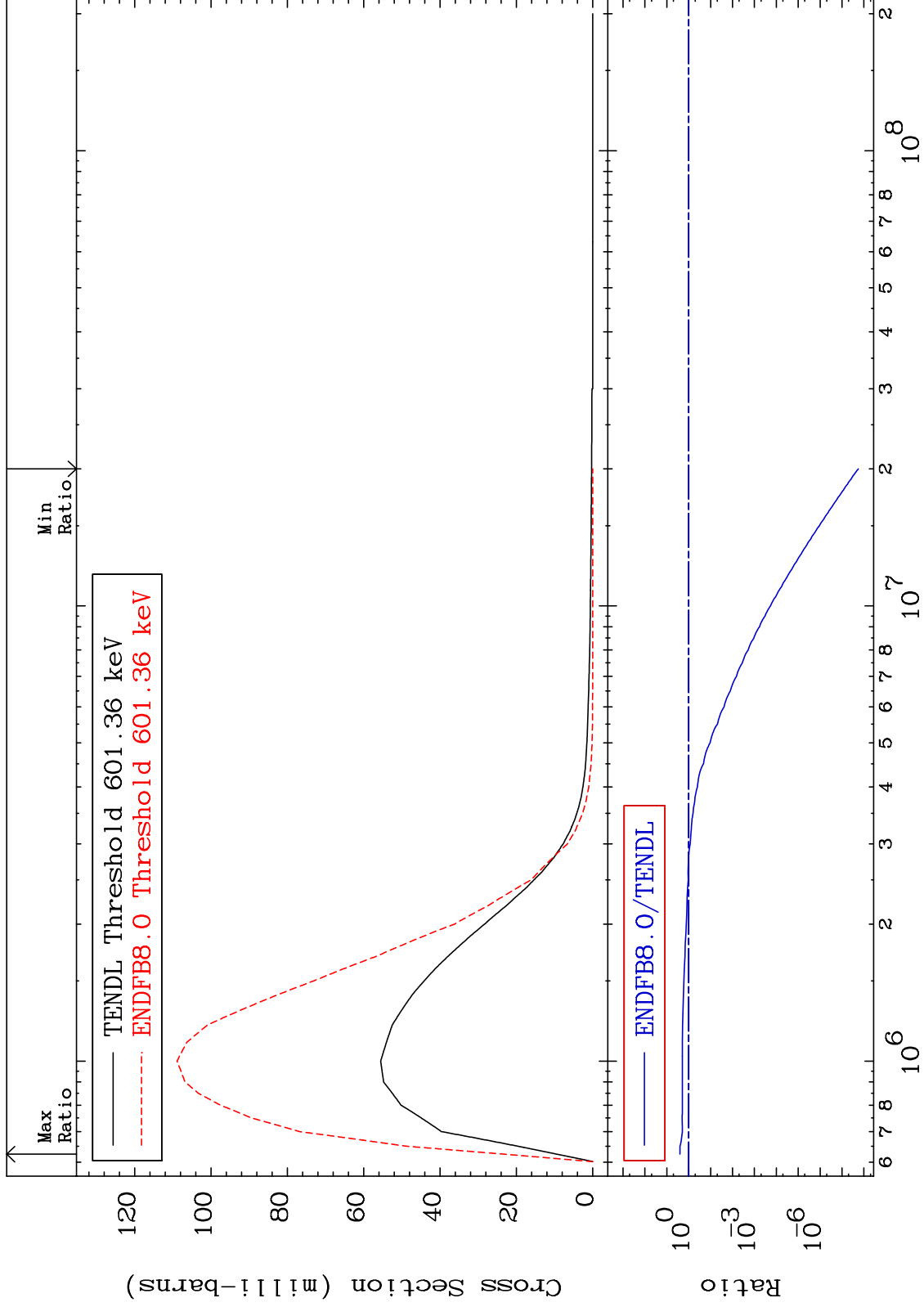
77-Ir-193
-100.0 To 176.9 %



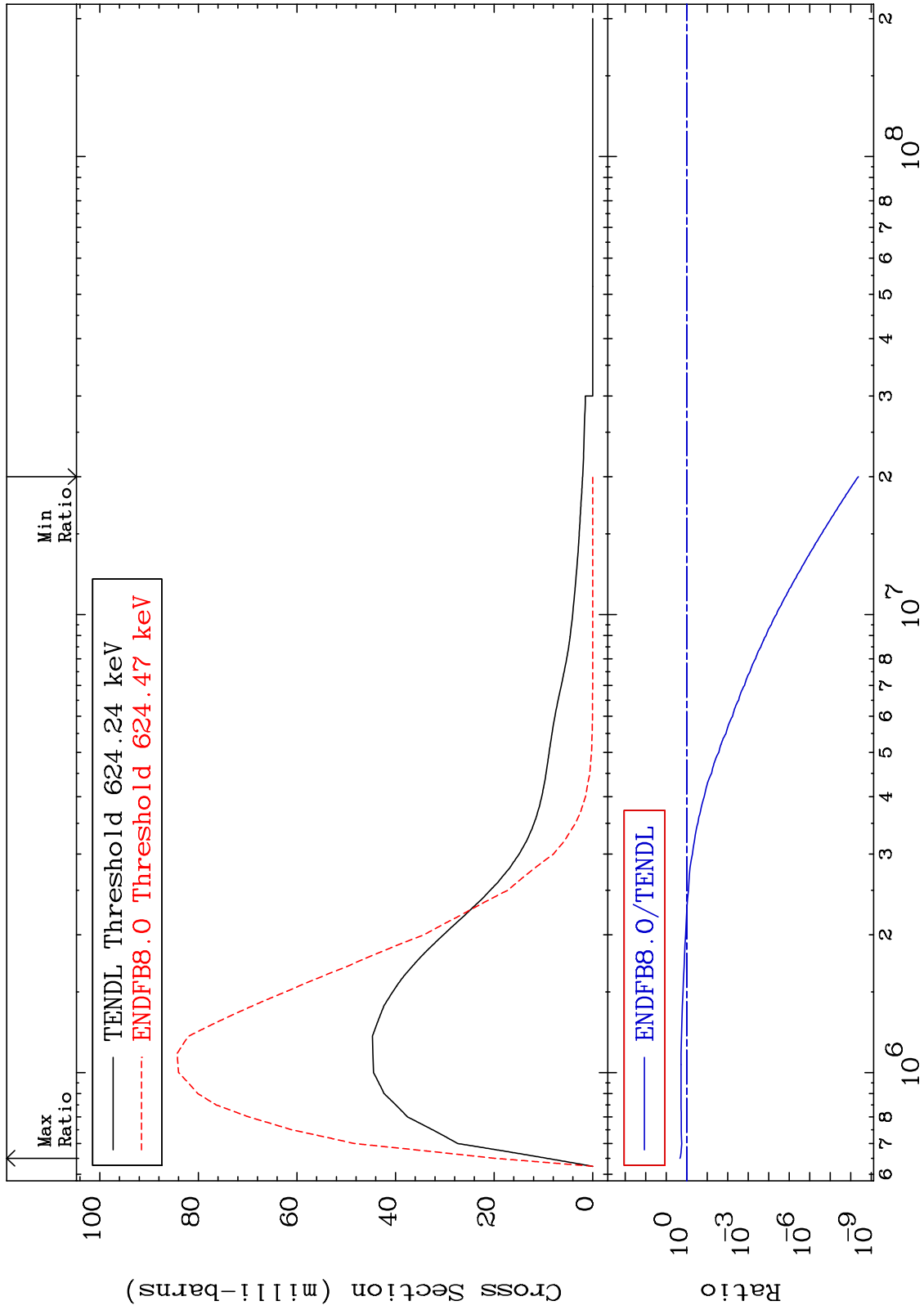
MAT 7731

MT= 66 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 149.8 %



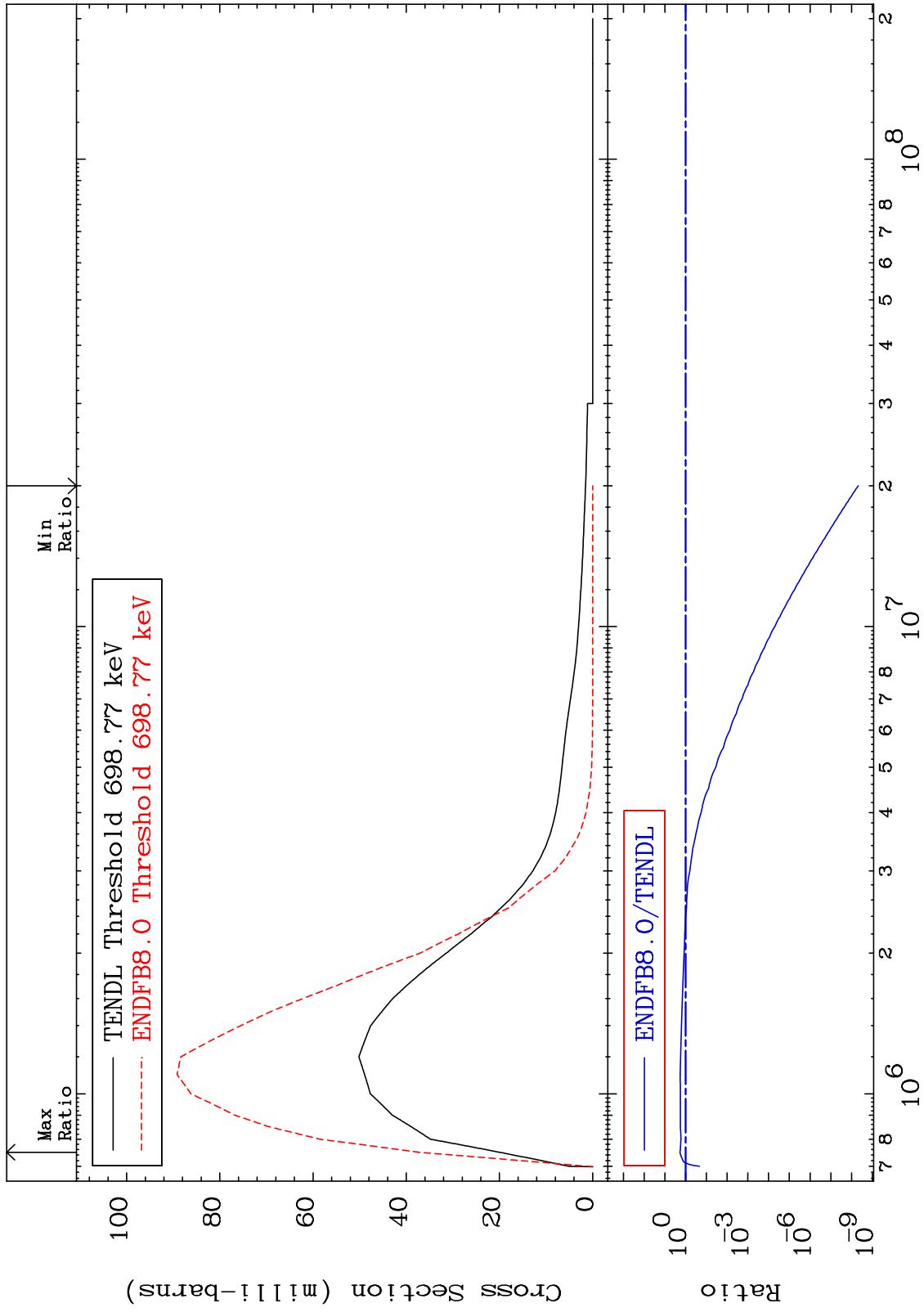
MAT 7731 MT= 67 (n,n') Level Cross Section -100.0 To 114.0 % 77-Ir-193



MAT 7731

MT= 68 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 86.78 %



27

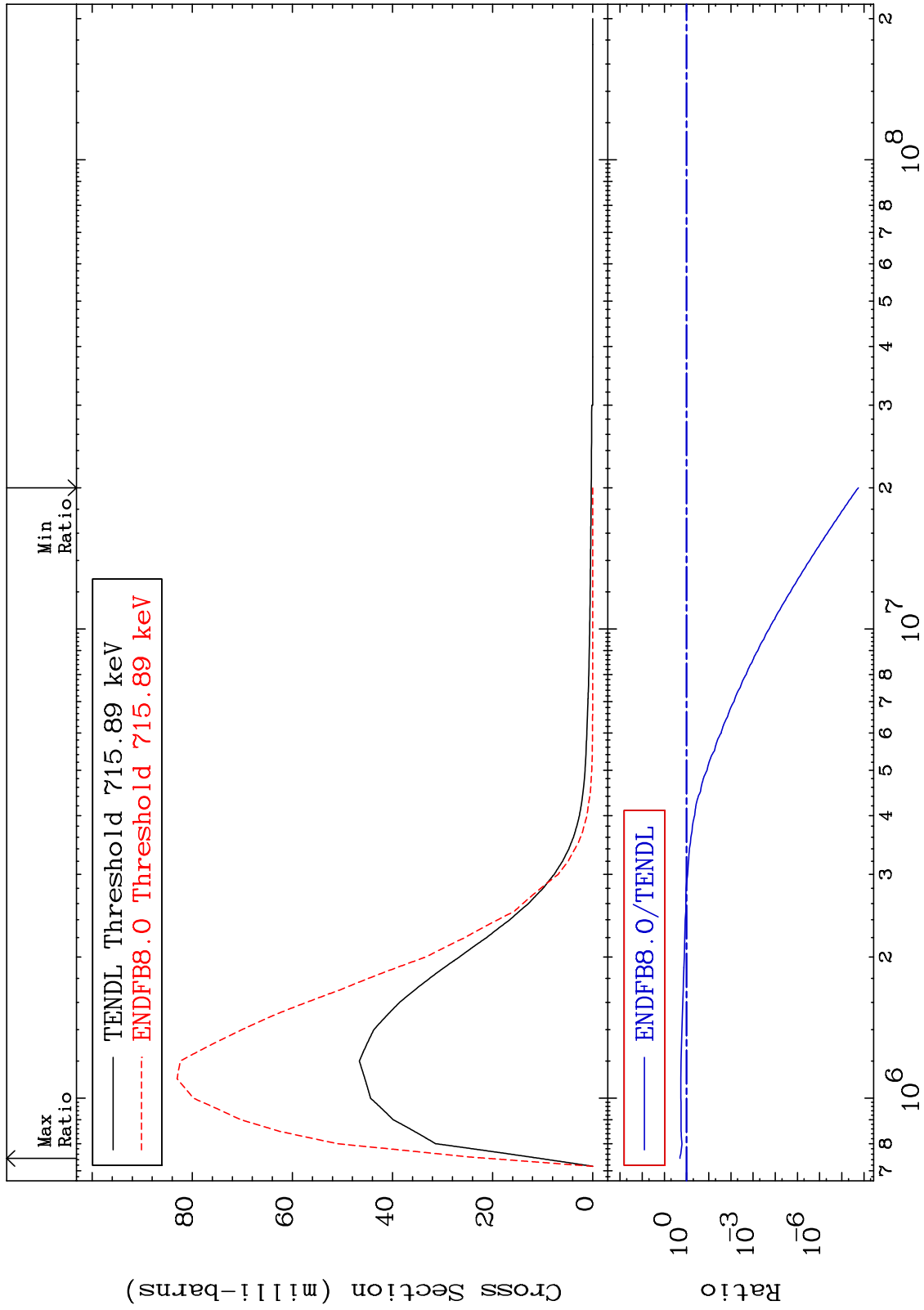
Incident Energy (eV)

77-Ir-193

MAT 7731

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

77-Ir-193
-100.0 To 97.22 %



28

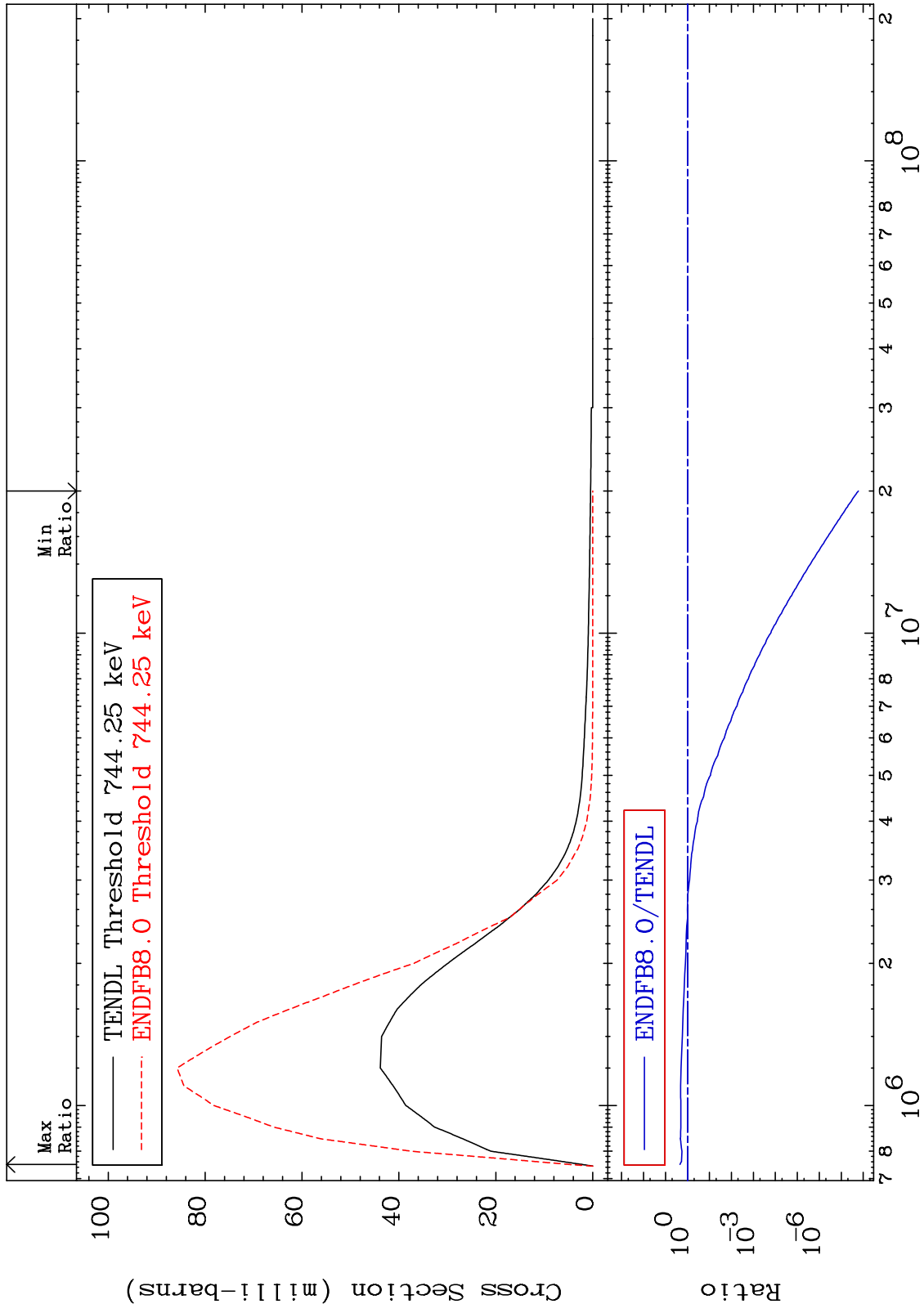
77-Ir-193

77-Ir-193

MAT 7731

MT= 70 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 118.9 %



Max Ratio

Min Ratio

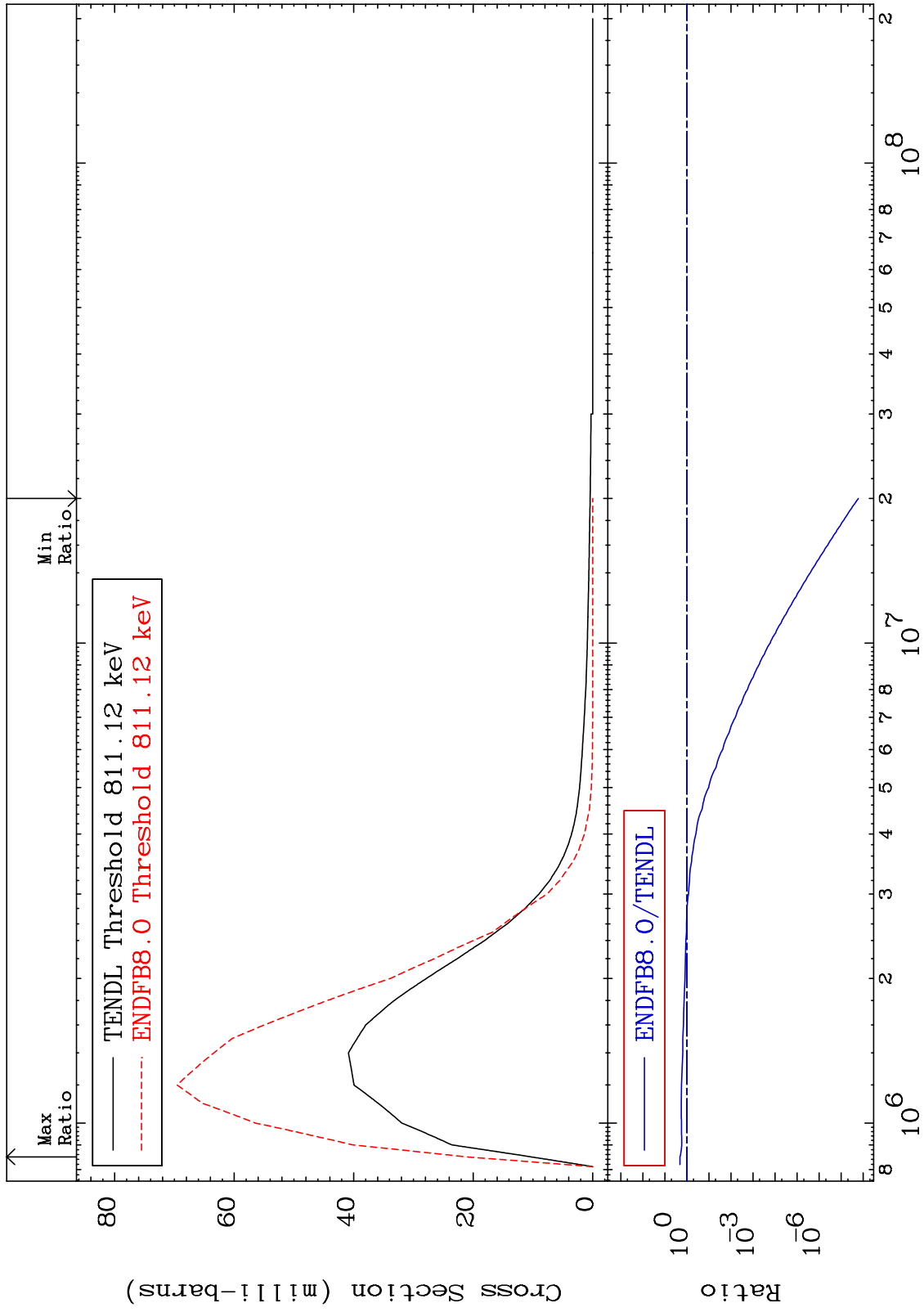
— TENDL Threshold 744.25 keV
- - - ENDFB8.0 Threshold 744.25 keV

— ENDFB8.0/TENDL

MAT 7731

MT= 71 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 104.9 %



Incident Energy (eV)

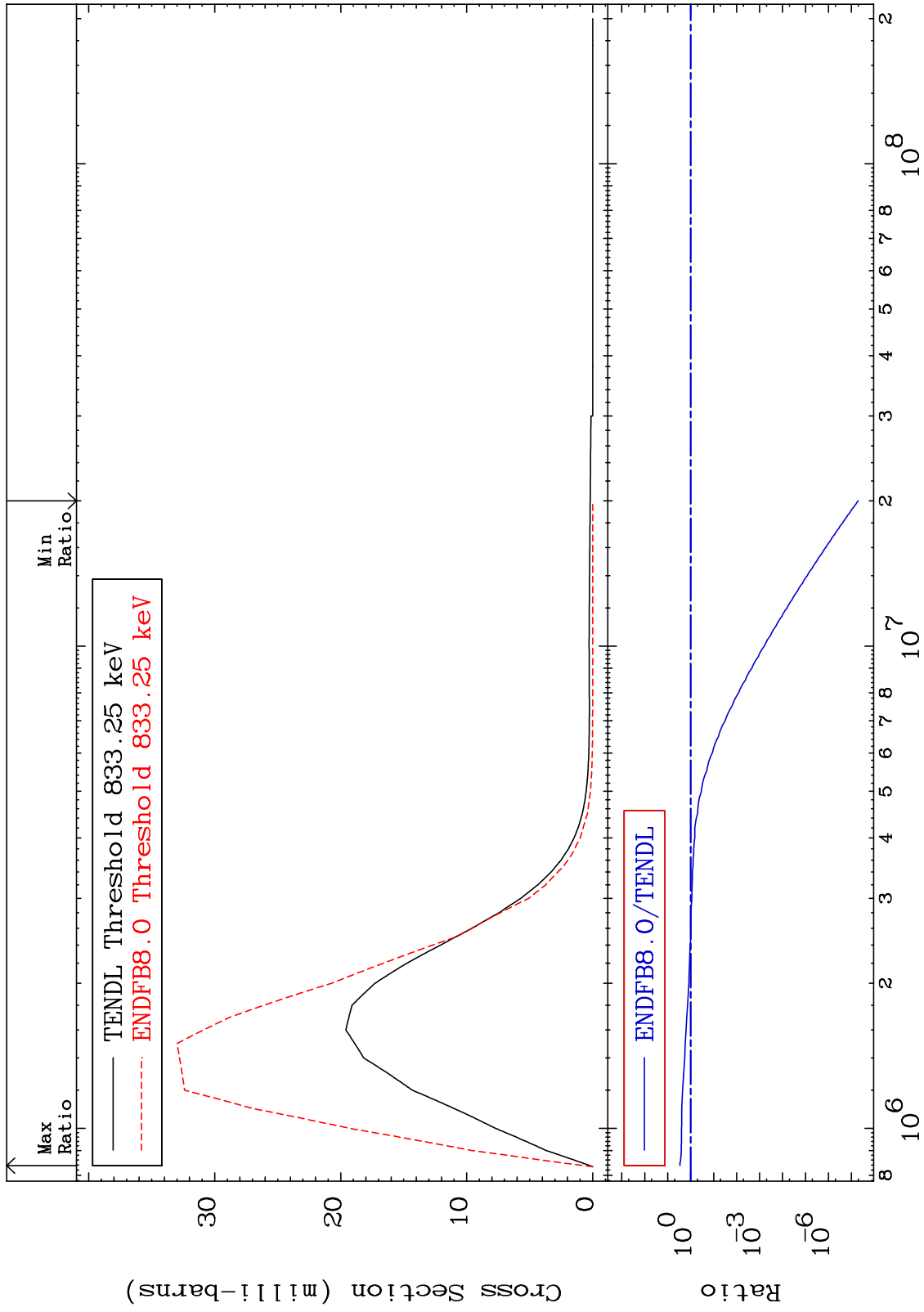
77-Ir-193

30

MAT 7731

MT= 72 (n,n') Level
Cross Section

⁷⁷Ir-193
-100.0 To 191.8 %



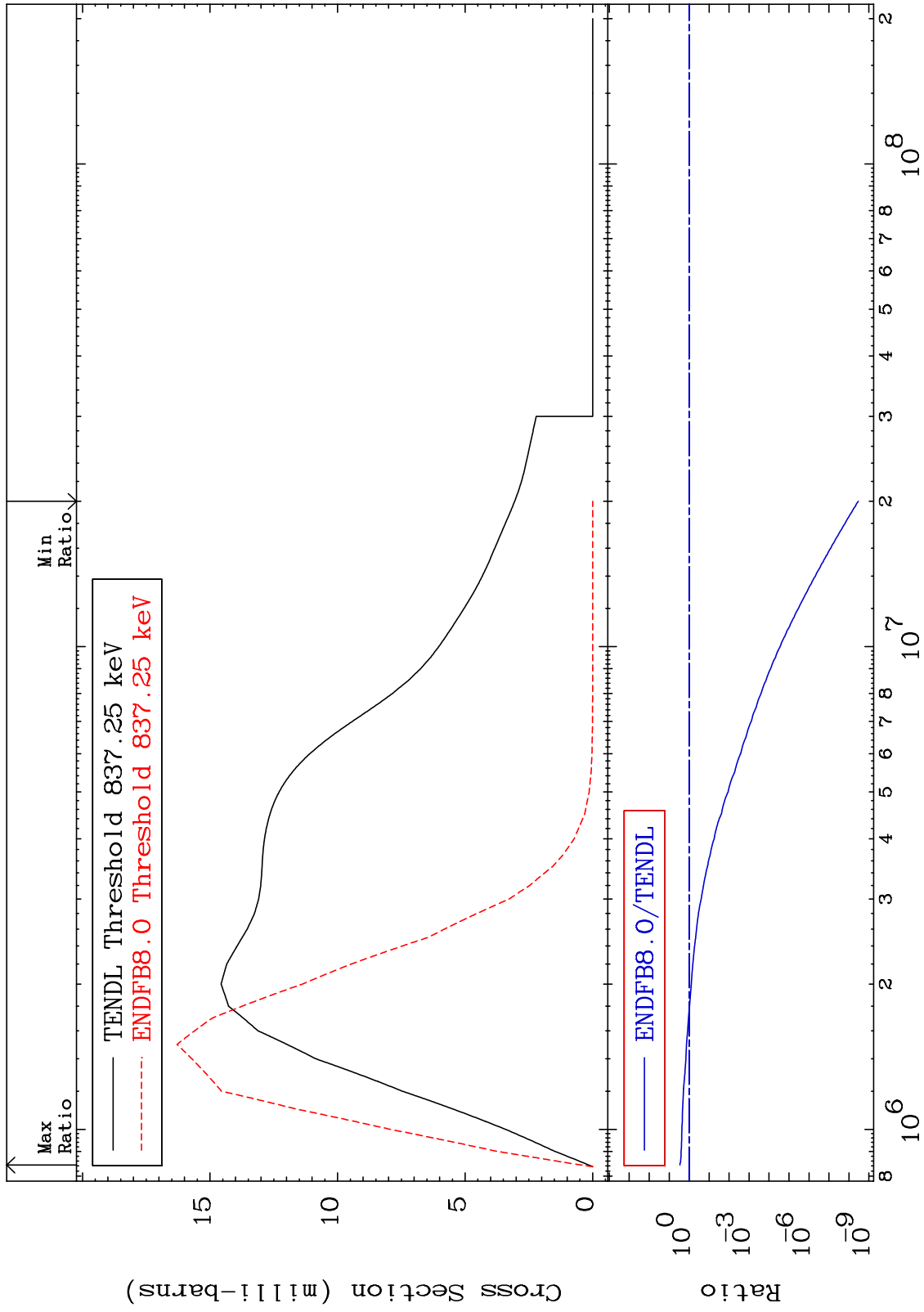
31

⁷⁷Ir-193

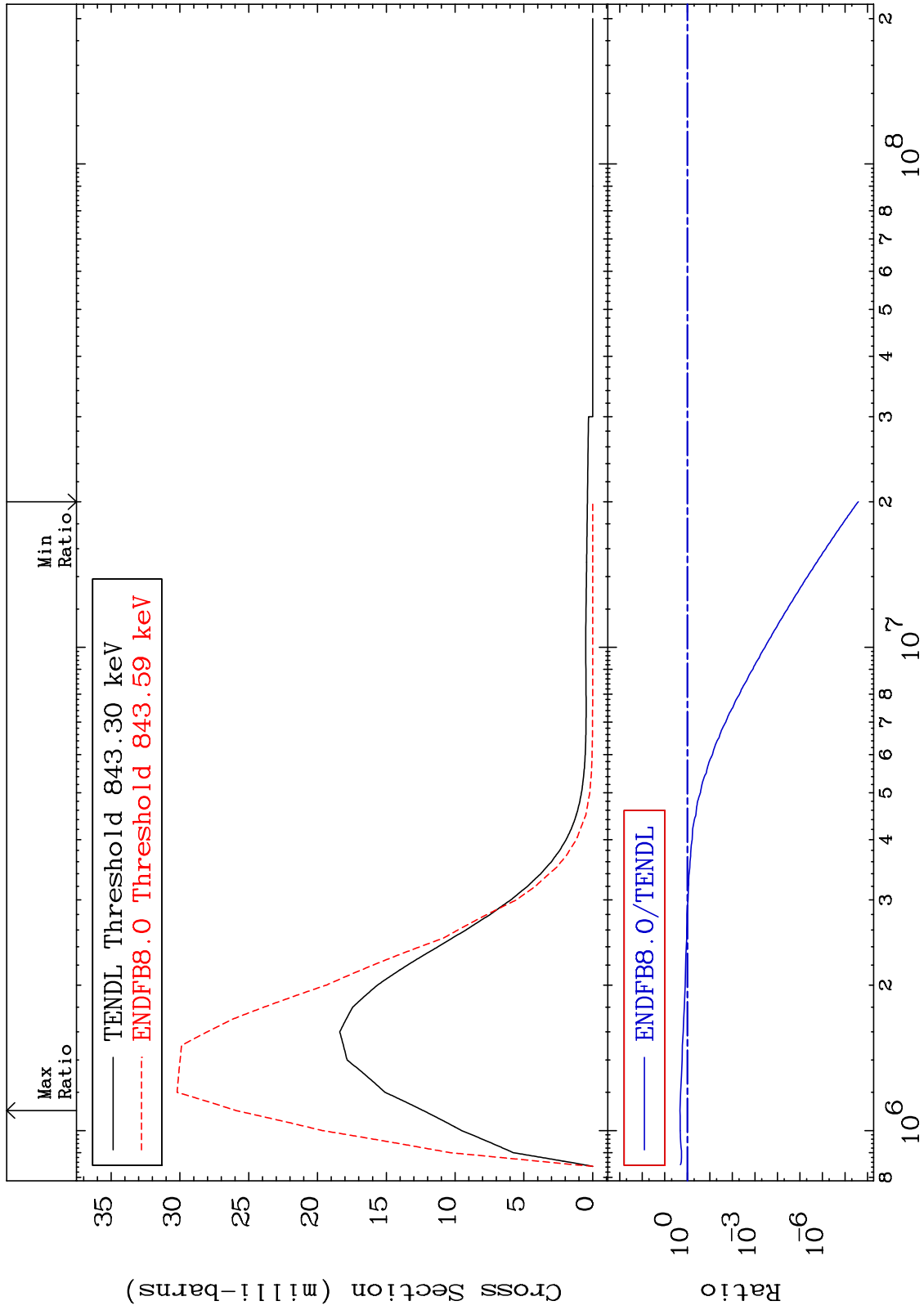
MAT 7731

MT= 73 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 186.6 %



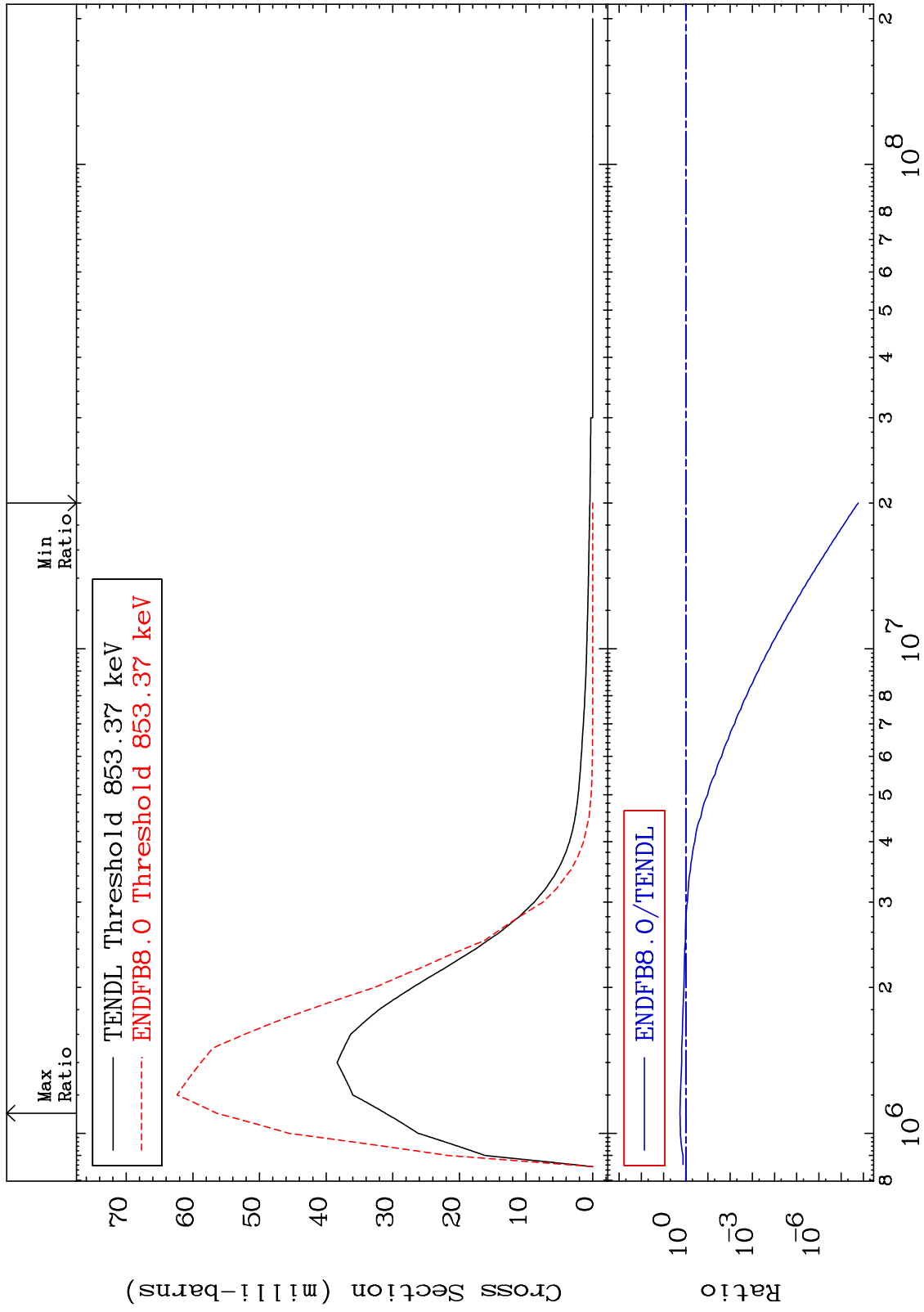
MAT 7731 MT= 74 (n,n') Level Cross Section -100.0 To 110.5 % 77-Ir-193



MAT 7731

MT= 75 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 81.50 %



34

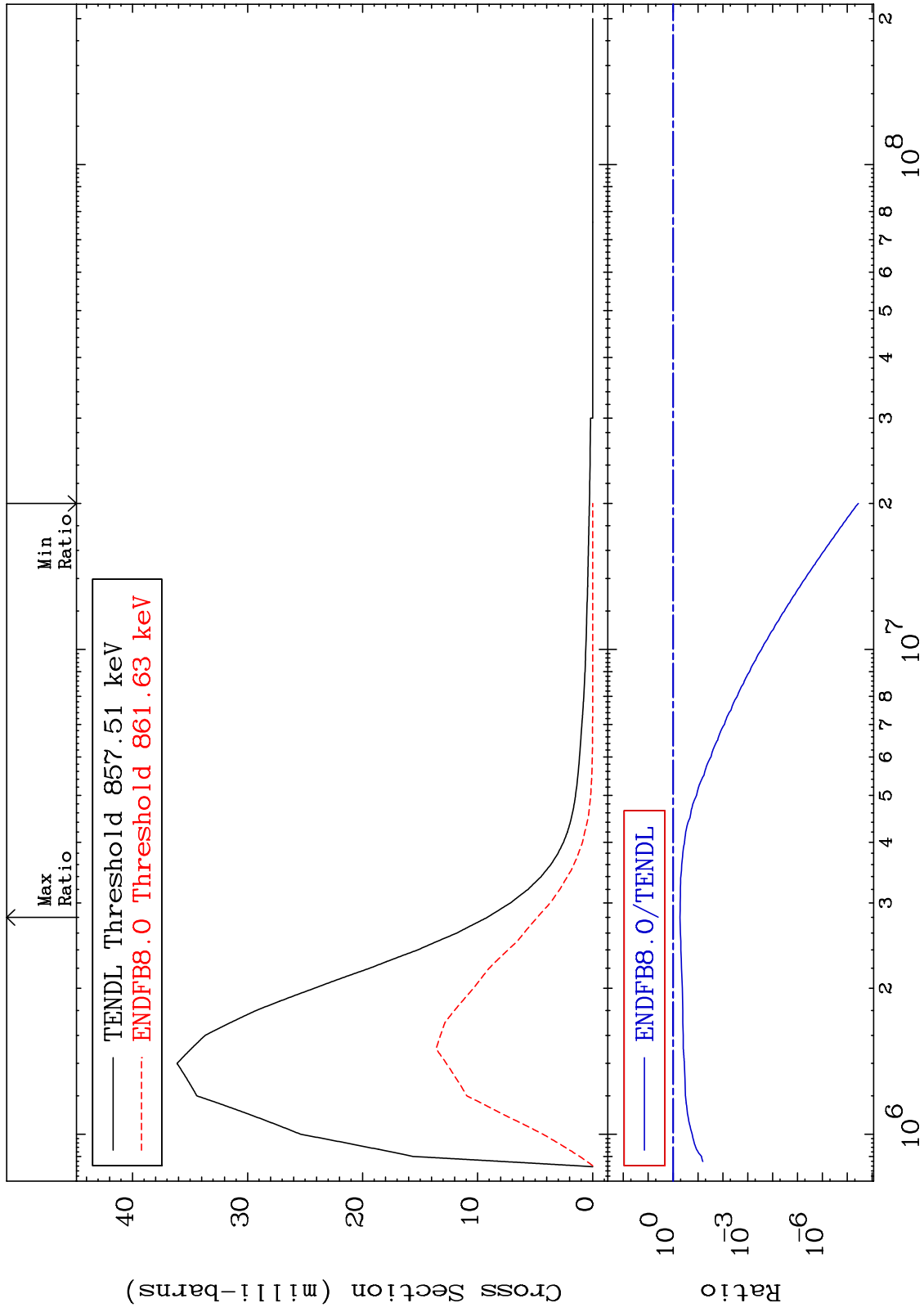
Incident Energy (eV)

77-Ir-193

MAT 7731

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

77-Ir-193
-100.0 To -47.31%



35

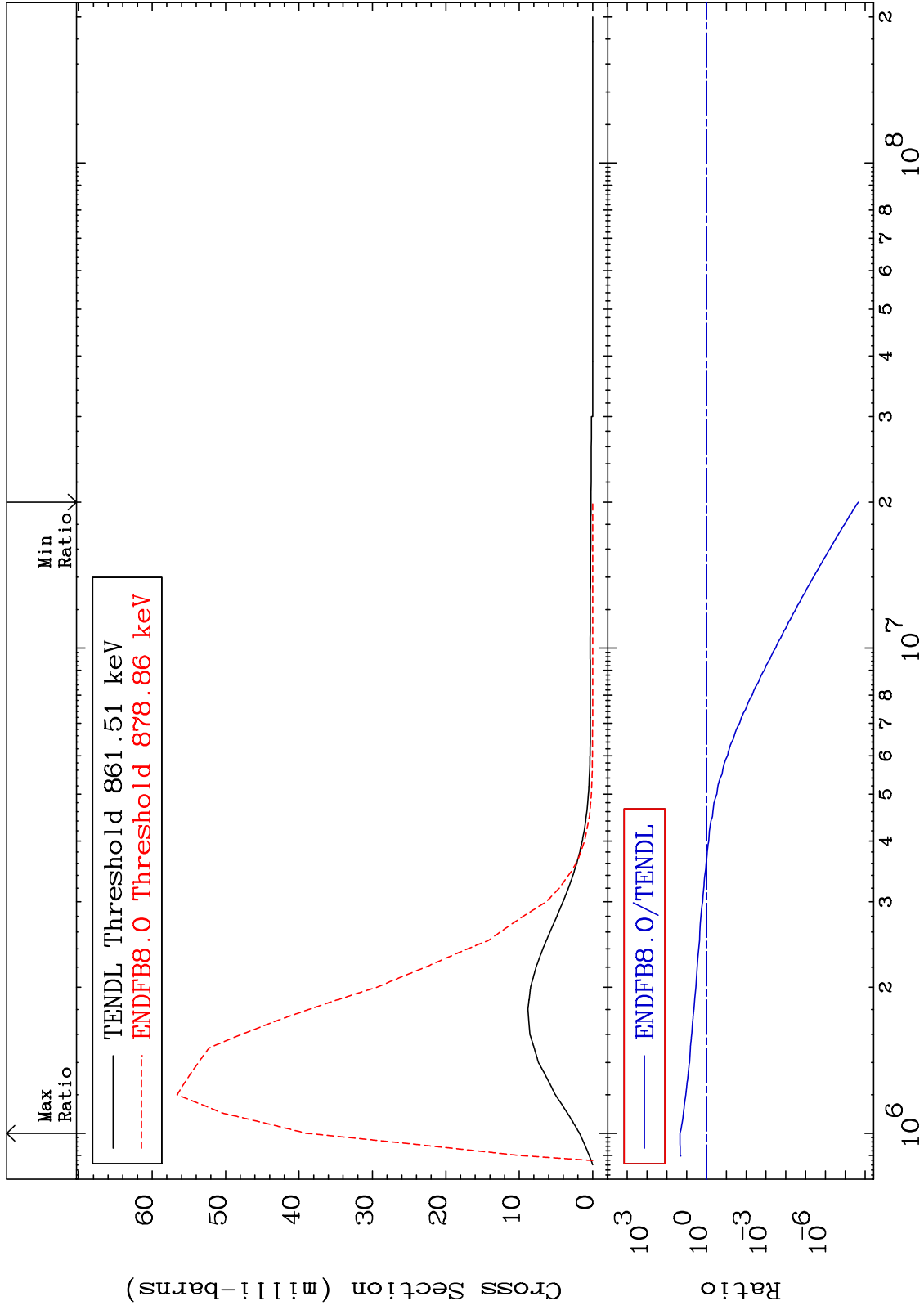
Incident Energy (eV)

77-Ir-193

MAT 7731

MT= 77 (n,n') Level
Cross Section

77-Ir-193
-100.0 To 2074. %



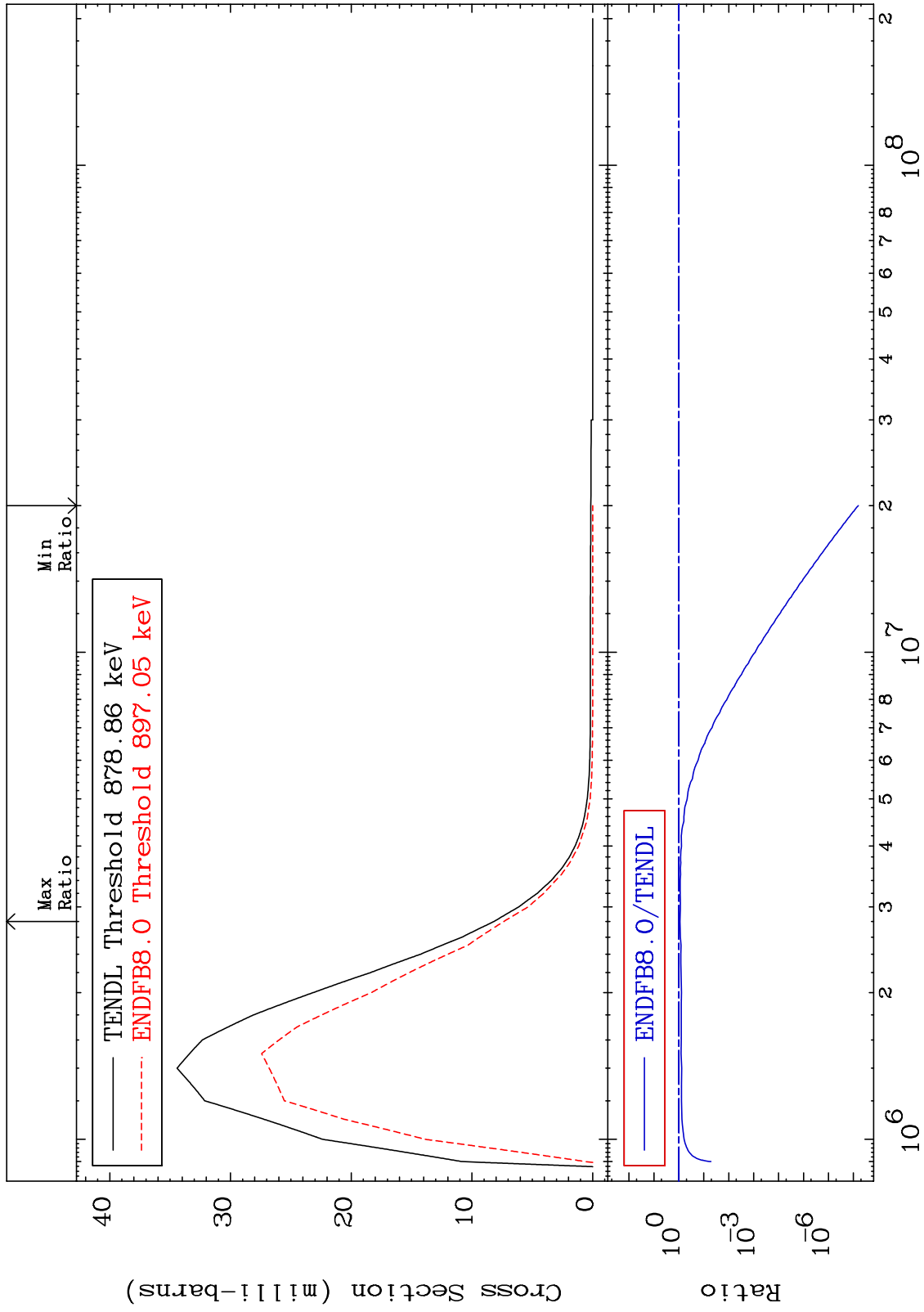
36

77-Ir-193

MAT 7731

MT= 78 (n,n') Level
Cross Section

⁷⁷Ir-193
-100.0 To -9.916%



37

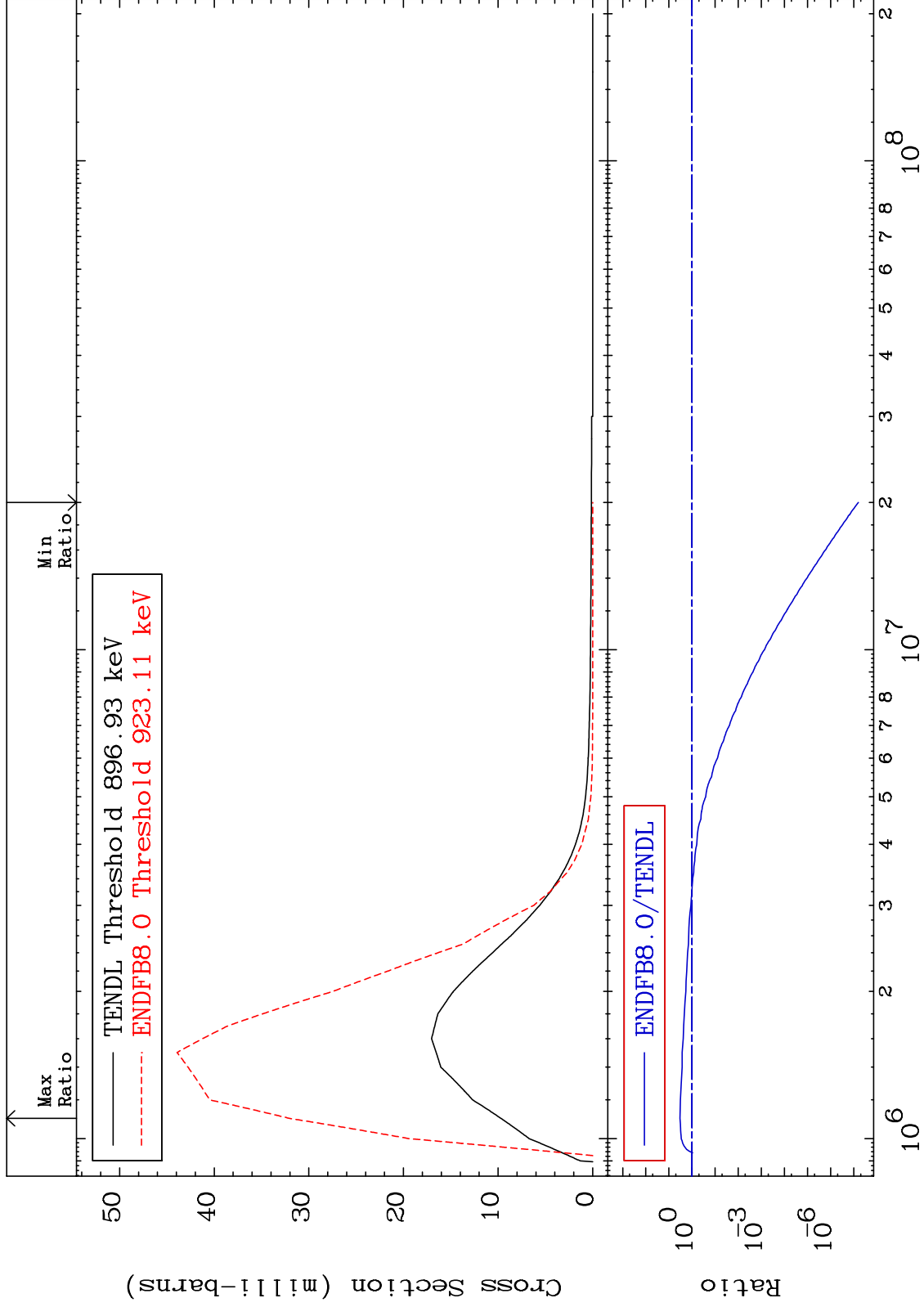
⁷⁷Ir-193

⁷⁷Ir-193

MAT 7731

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

77-Ir-193
-100.0 To 230.5 %



38

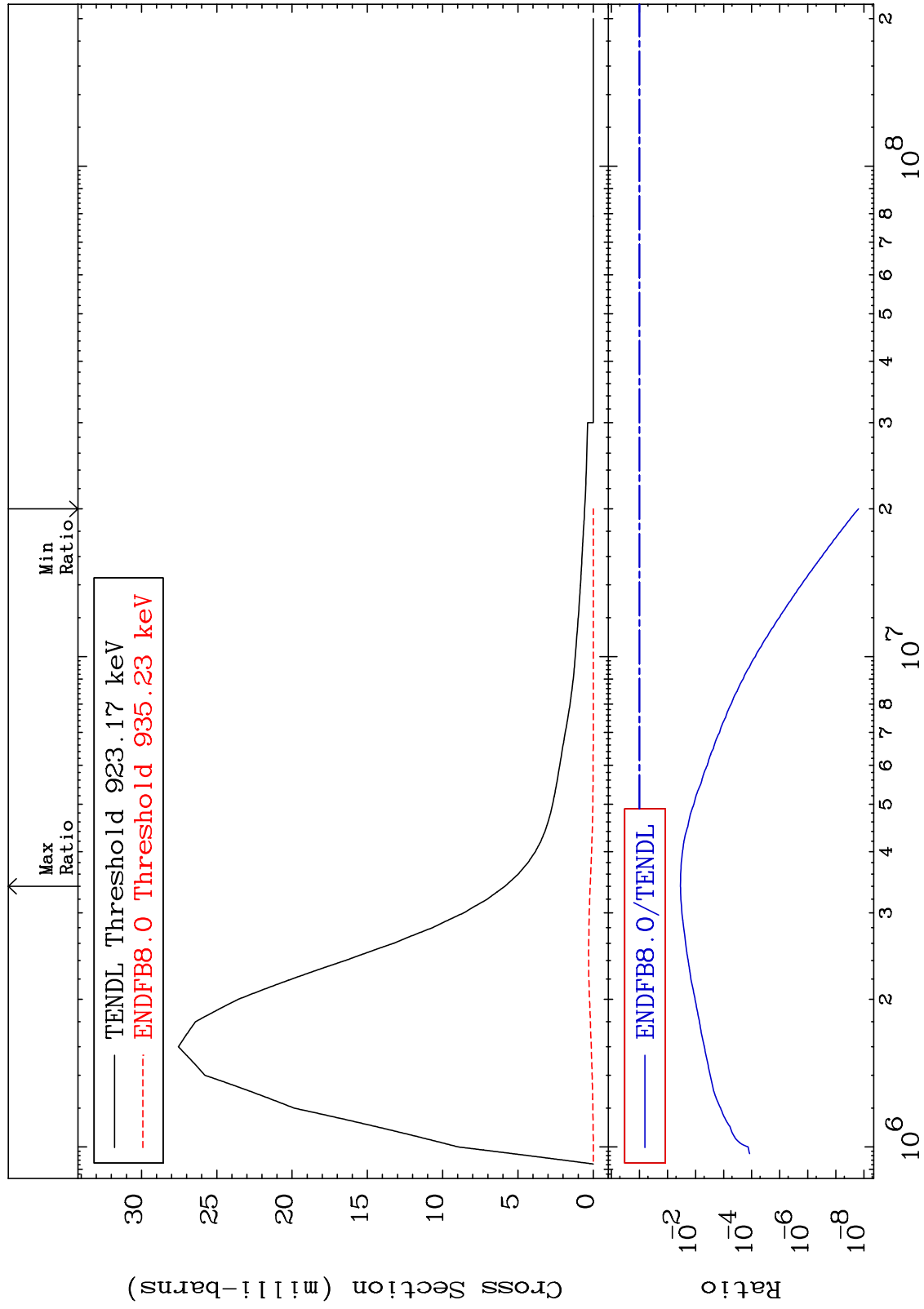
Incident Energy (eV)

77-Ir-193

MAT 7731

MT= 80 (n,n') Level
Cross Section

77-Ir-193
-100.0 To -96.53%



39

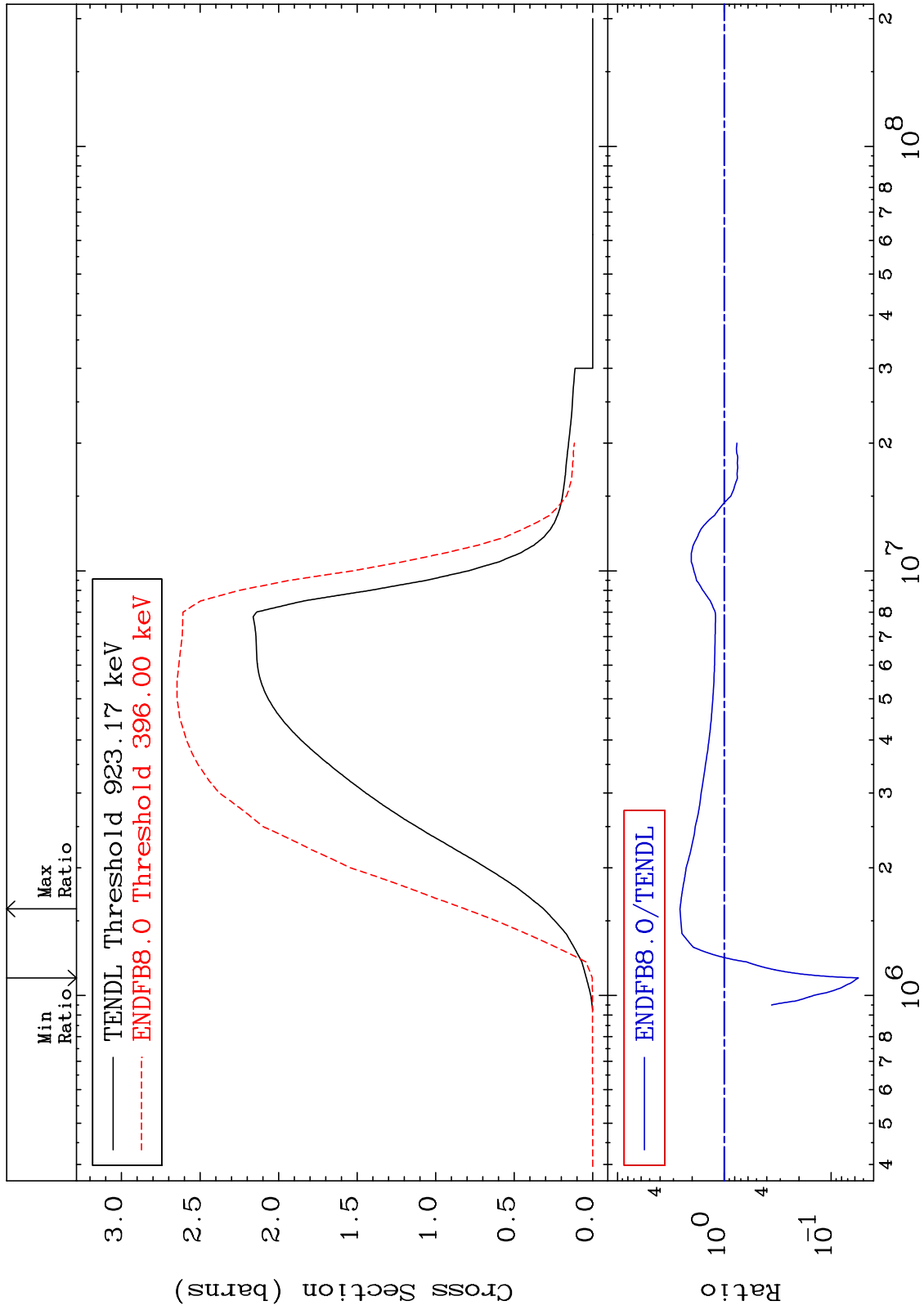
Incident Energy (eV)

77-Ir-193

MAT 7731

(n,n') Continuum
Cross Section

⁷⁷Ir-193
-94.44 To 159.8 %



40

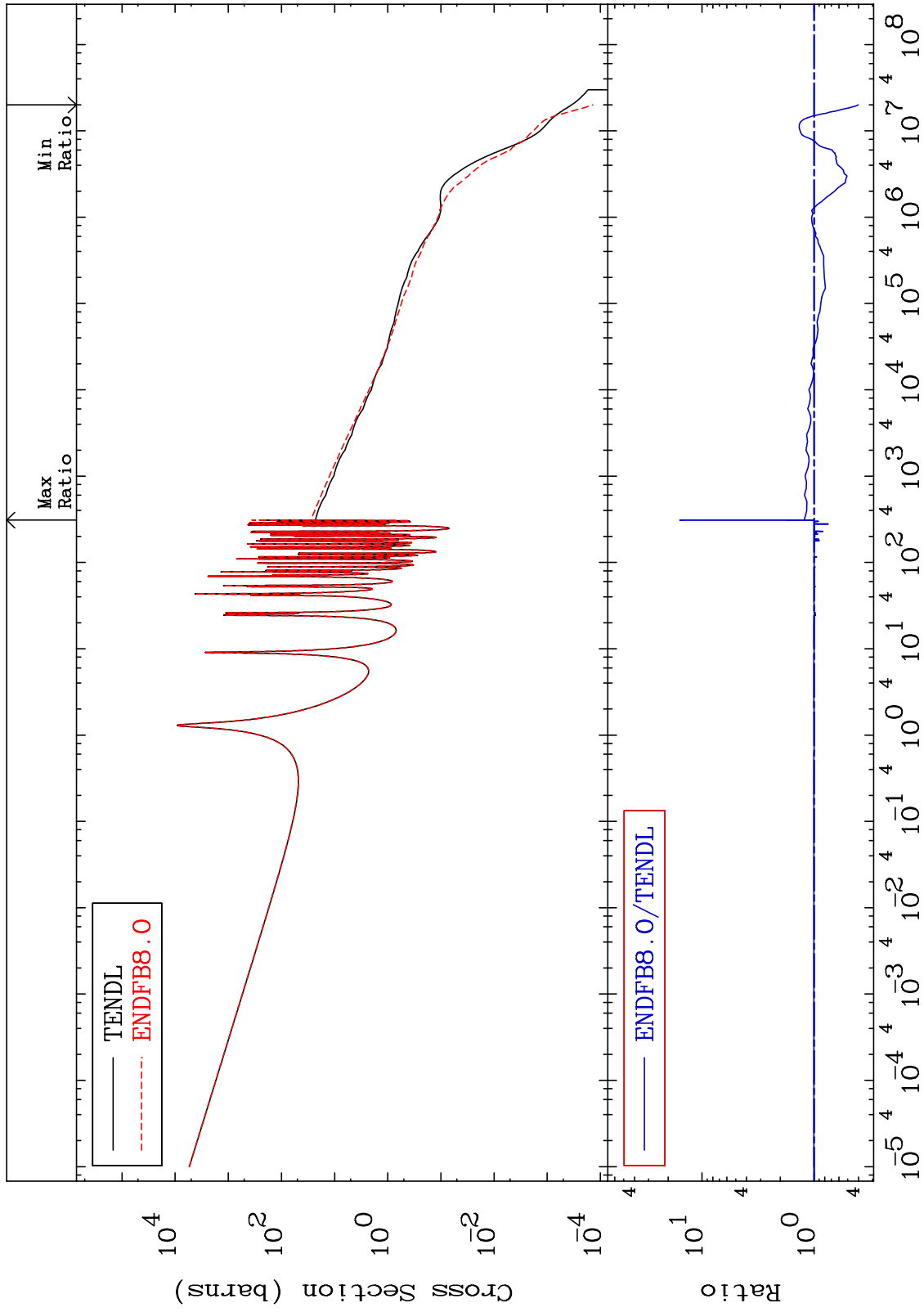
Incident Energy (eV)

⁷⁷Ir-193

MAT 7731

(n, γ)
Cross Section

77-Ir-193
-59.84 To 1471. %



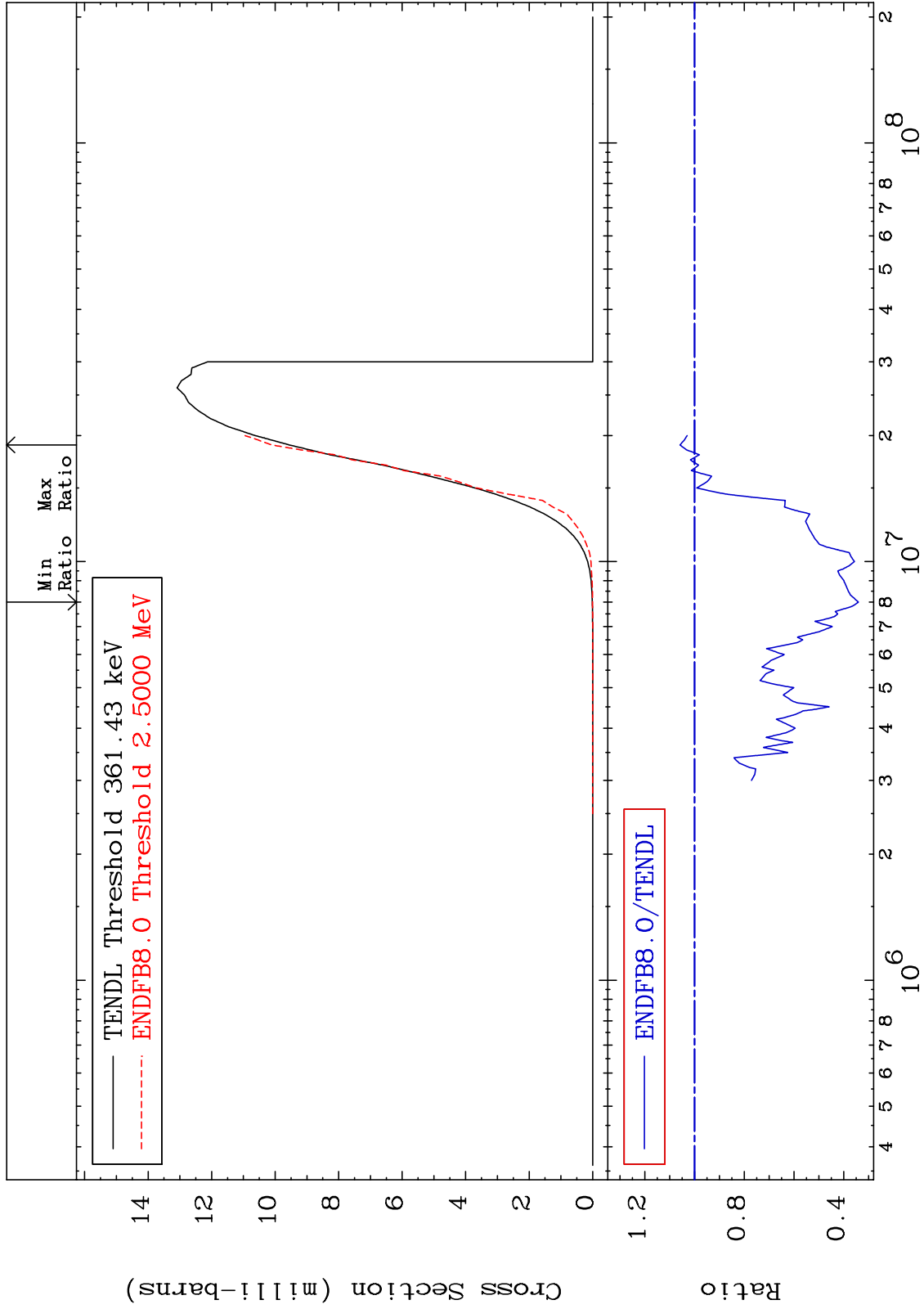
MAT 7731

(n, p)

⁷⁷Ir-193

Cross Section

-65.92 To 5.821 %



42

Incident Energy (eV)

⁷⁷Ir-193

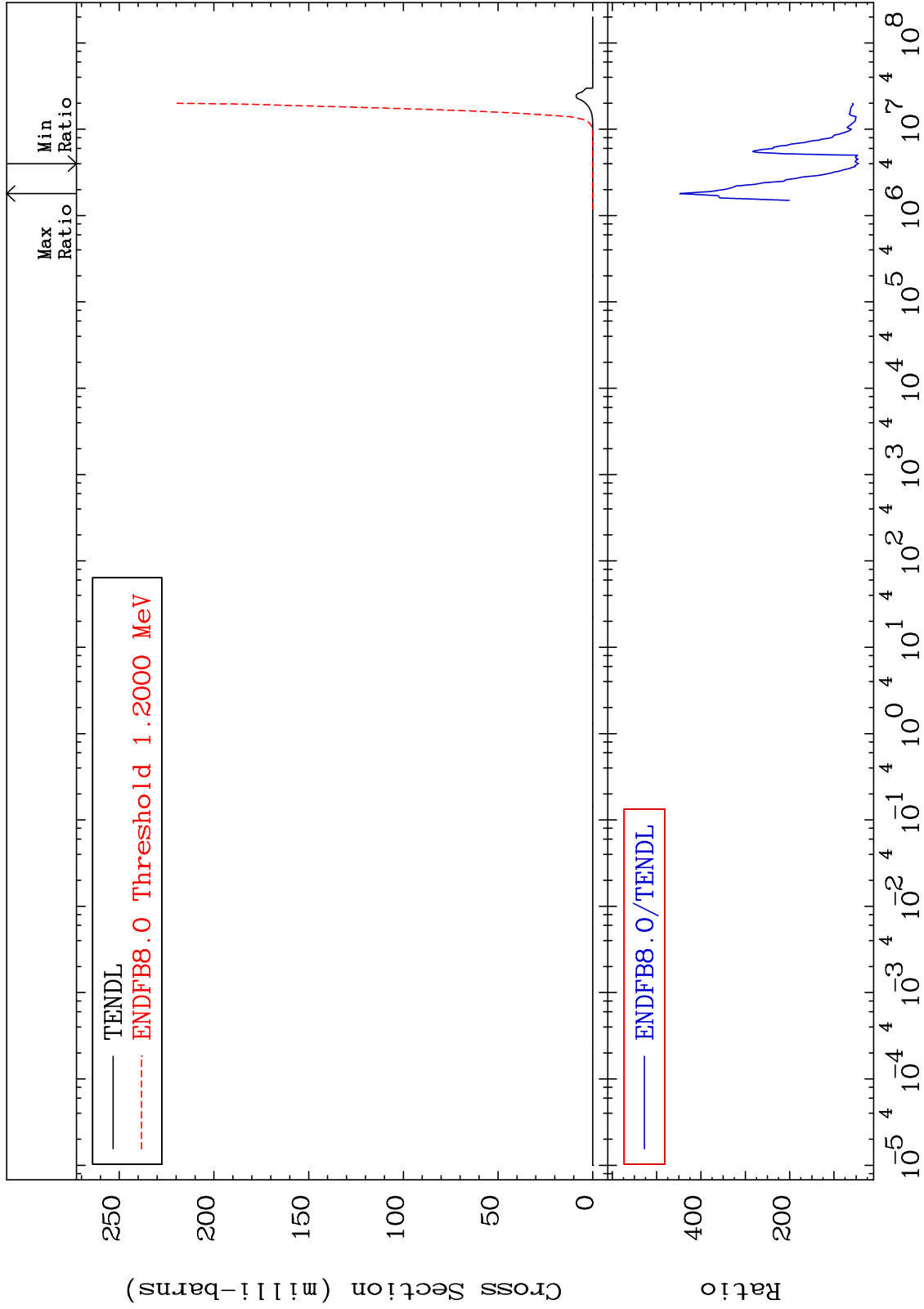
MAT 7731

(n, α)

77-Ir-193

Cross Section

4399. To 9999. %



43

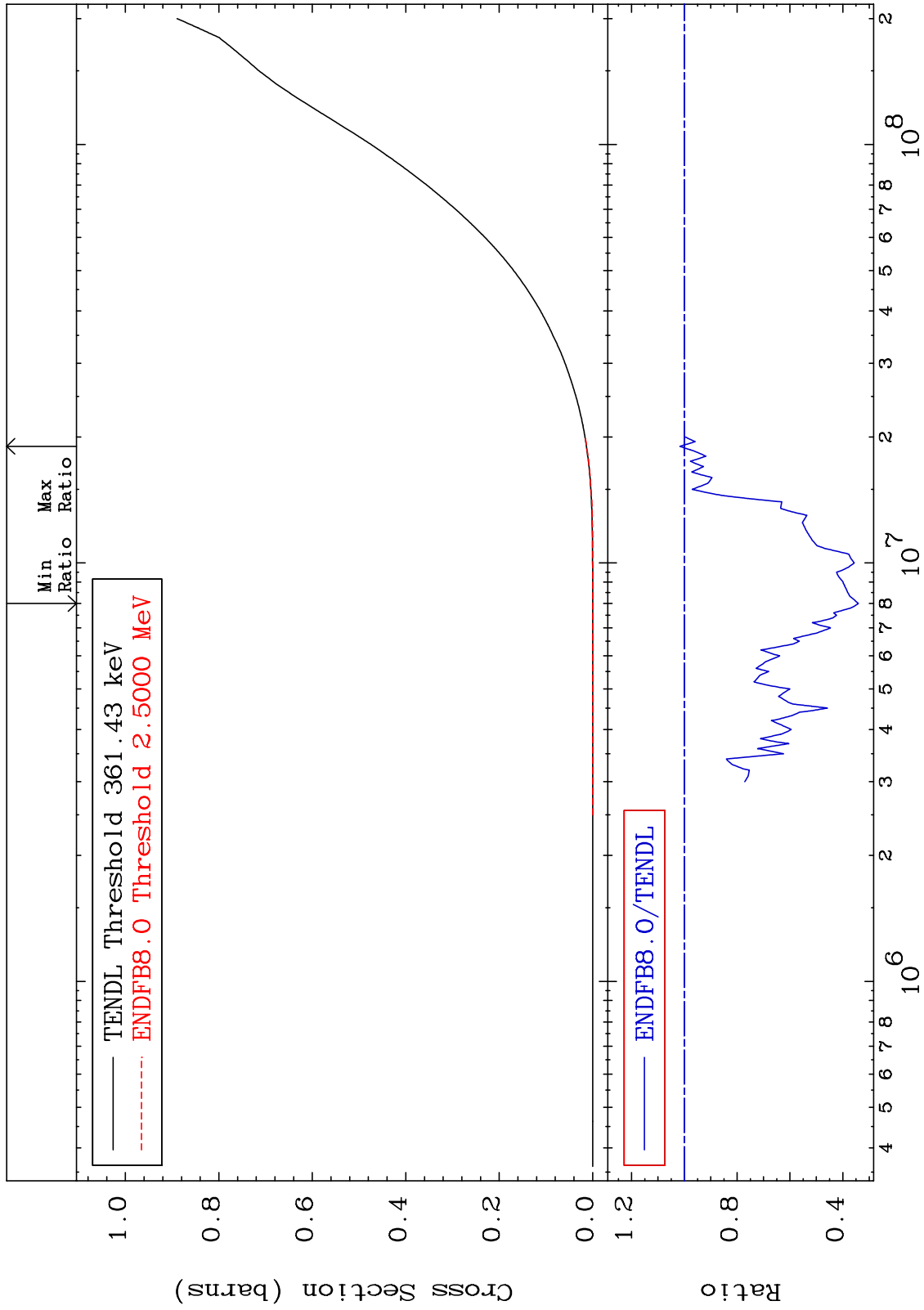
Incident Energy (eV)

77-Ir-193

MAT 7731

Hydrogen Production
Cross Section

77-Ir-193
-65.92 To 1.649 %



44

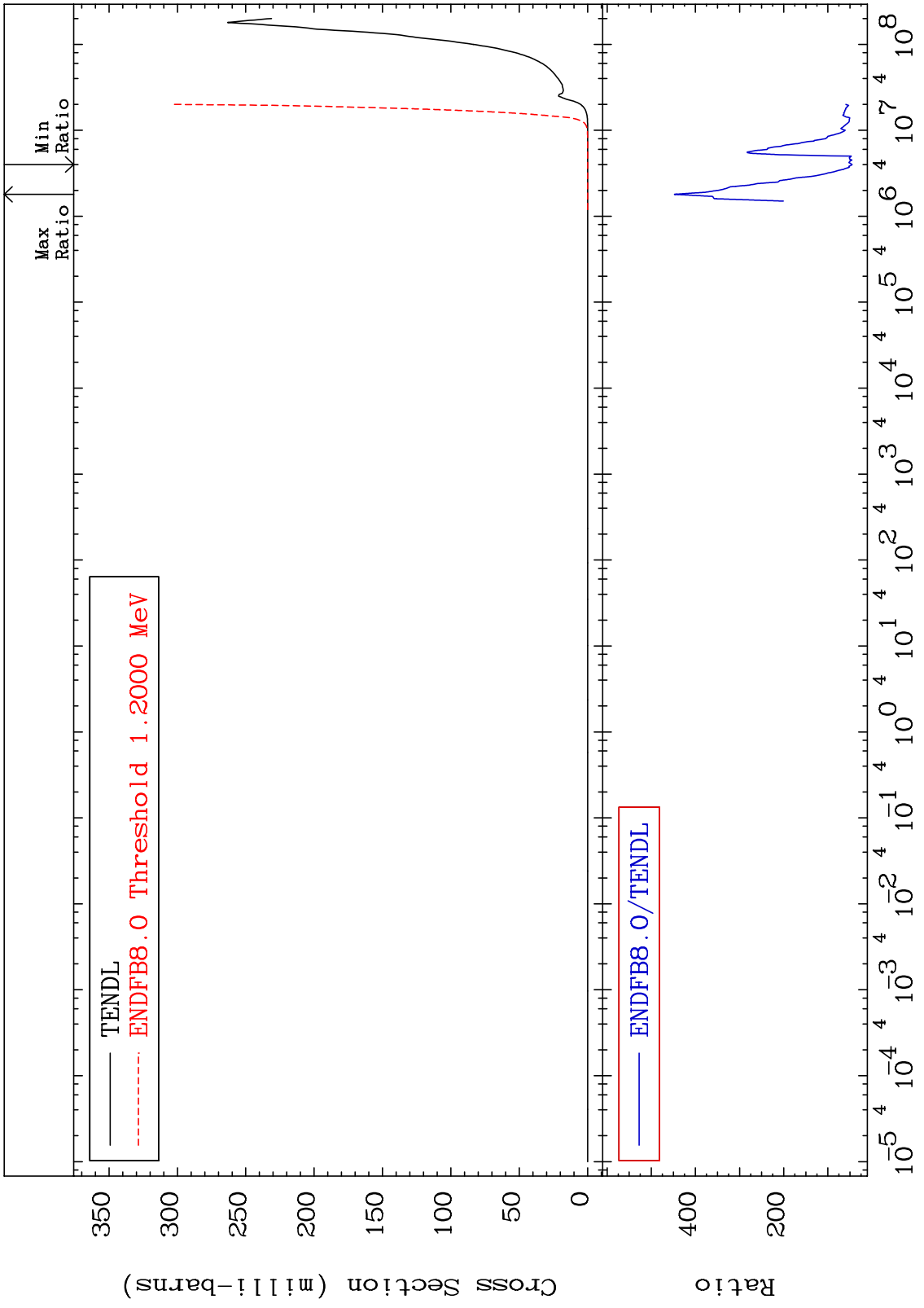
Incident Energy (eV)

77-Ir-193

MAT 7731

He-4 Production
Cross Section

77-Ir-193
4399. To 9999. %



45

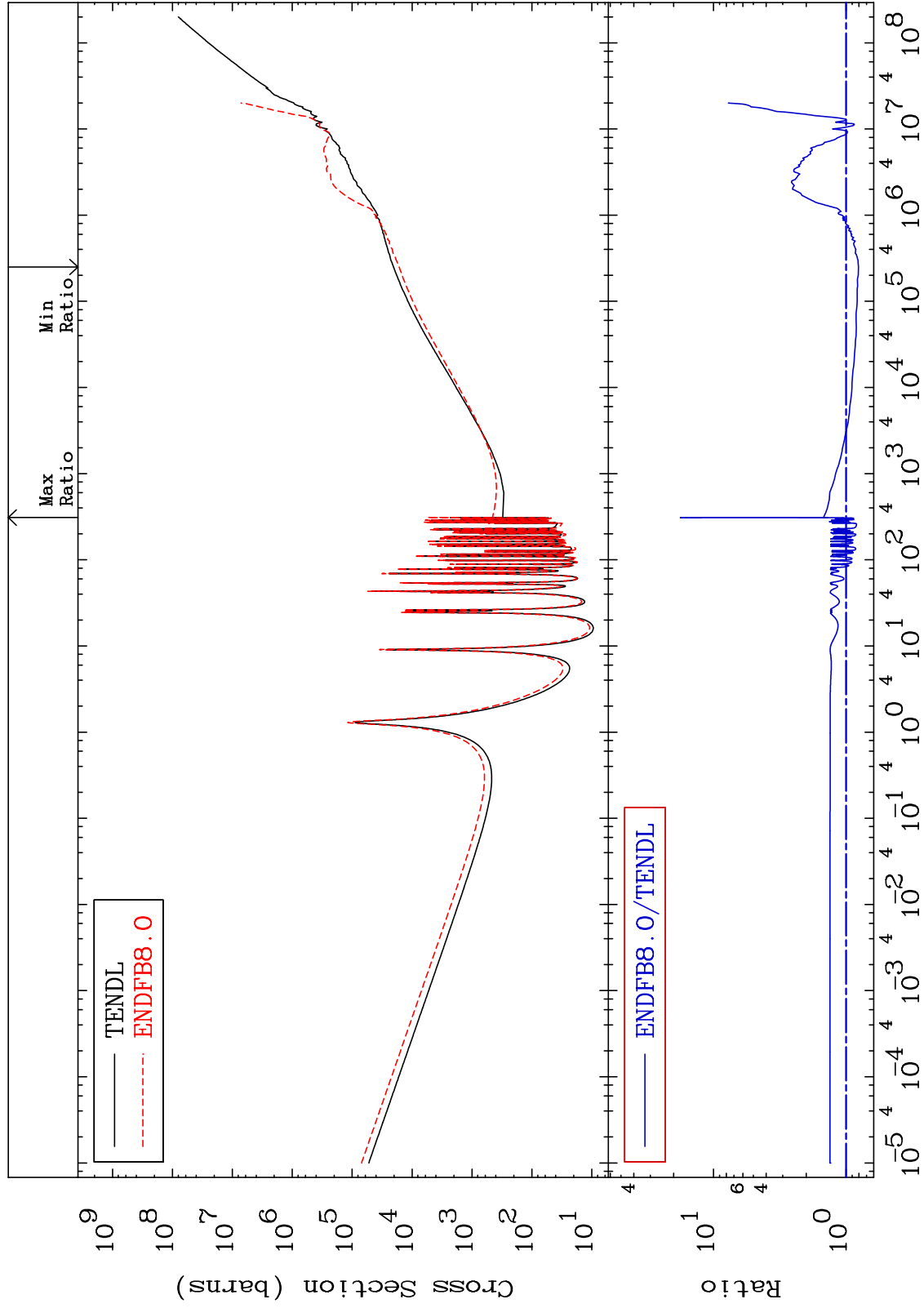
Incident Energy (eV)

77-Ir-193

MAT 7731

Kerma total (eV-barns)
Cross Section

77-Ir-193
-19.50 To 1675. %



46

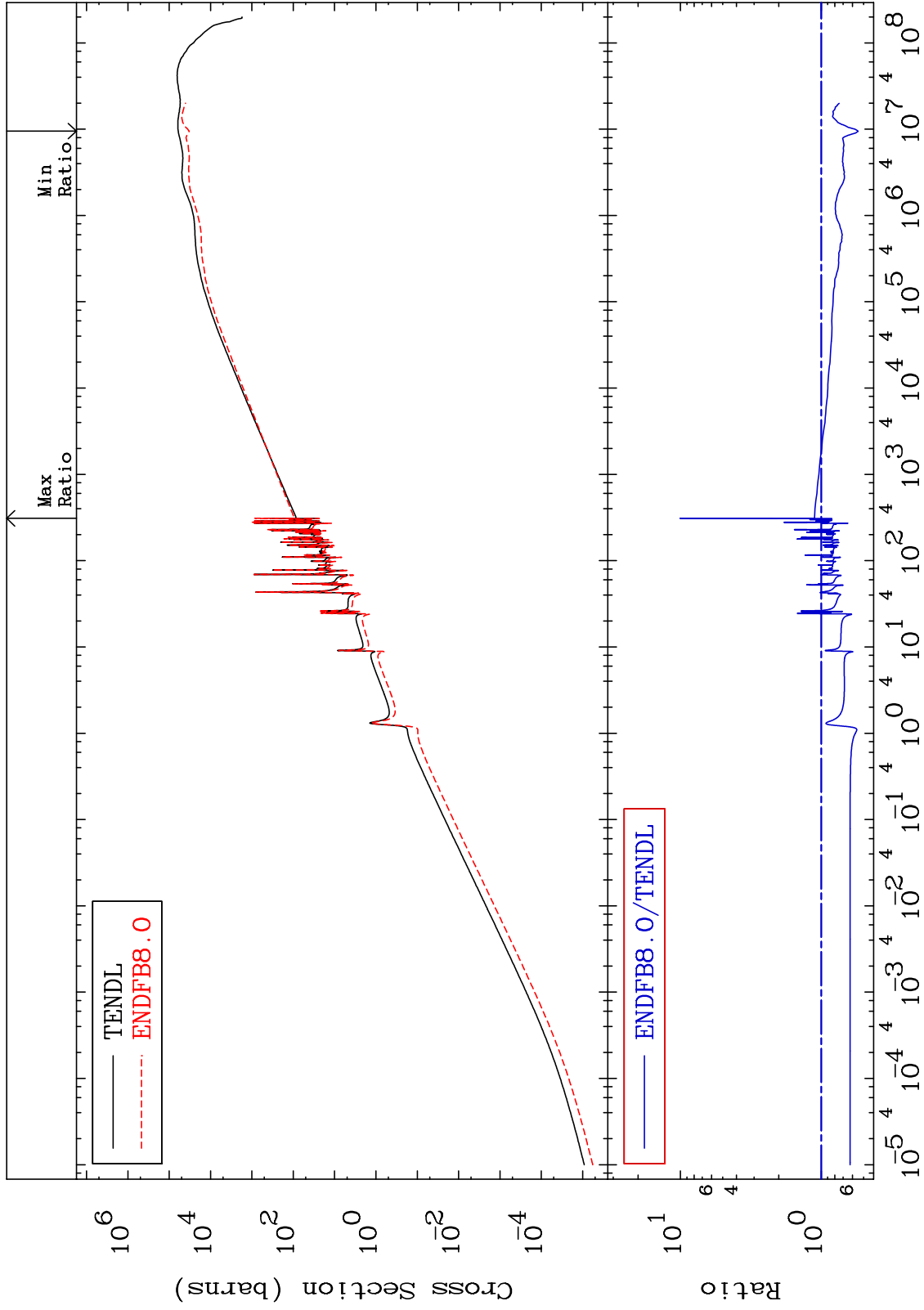
Incident Energy (eV)

77-Ir-193

MAT 7731

Kerma elastic
Cross Section

⁷⁷Ir-193
-45.60 To 906.1 %



47

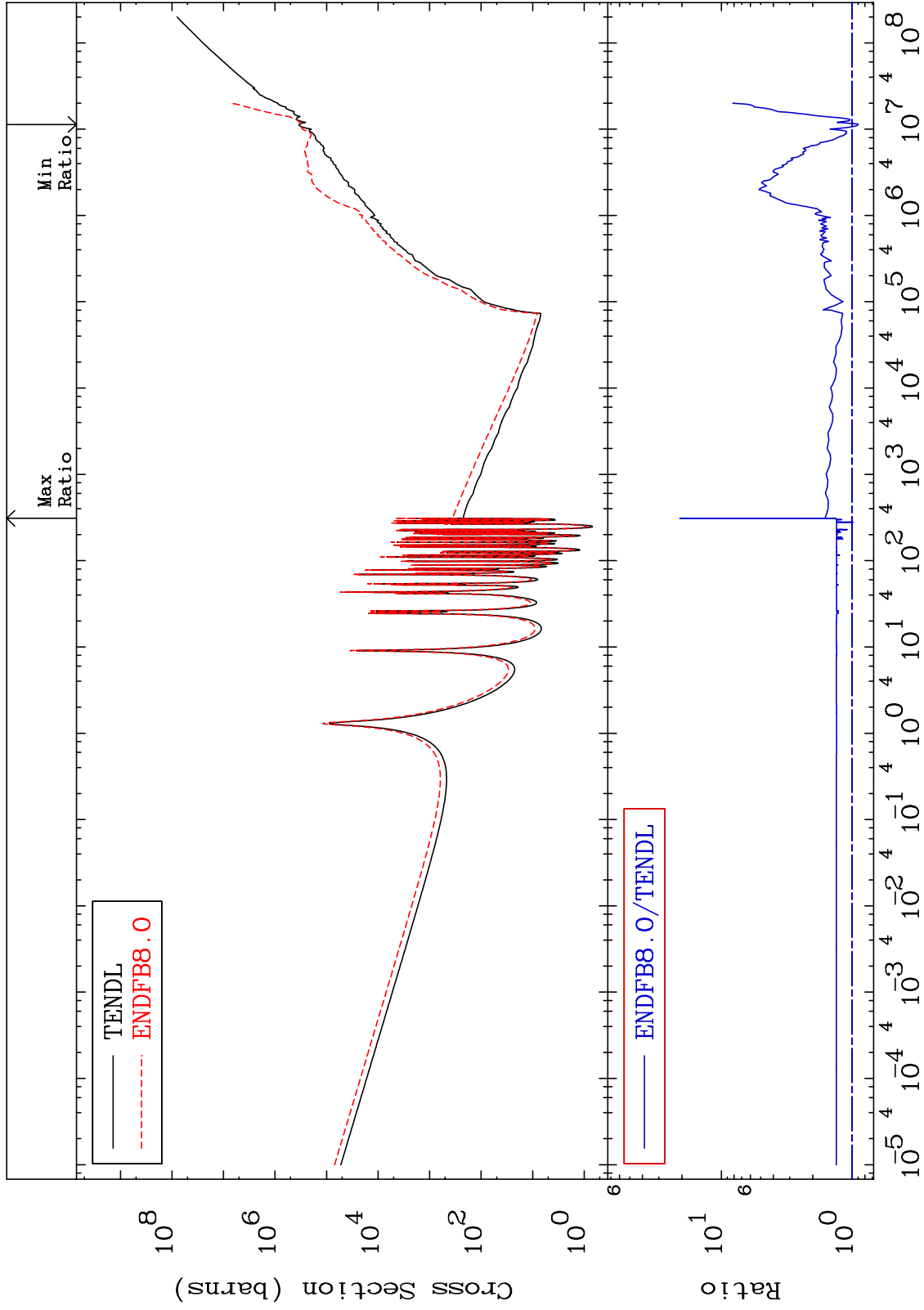
Incident Energy (eV)

⁷⁷Ir-193

MAT 7731

Kerma non-elastic (all but mt2)
Cross Section

77-Ir-193
-10.46 To 1968. %



48

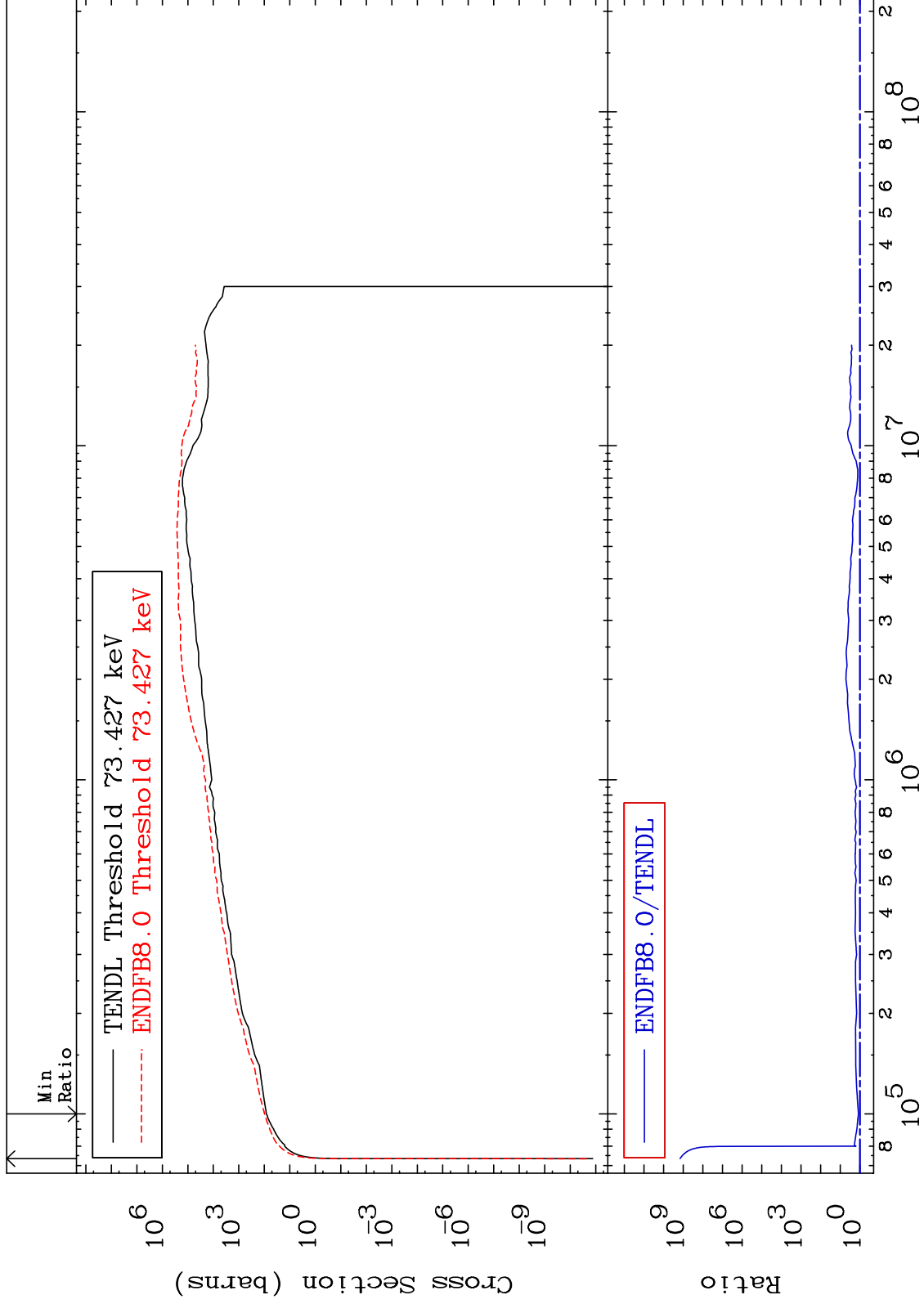
Incident Energy (eV)

77-Ir-193

MAT 7731

Kerma inelastic (mt51-91)
Cross Section

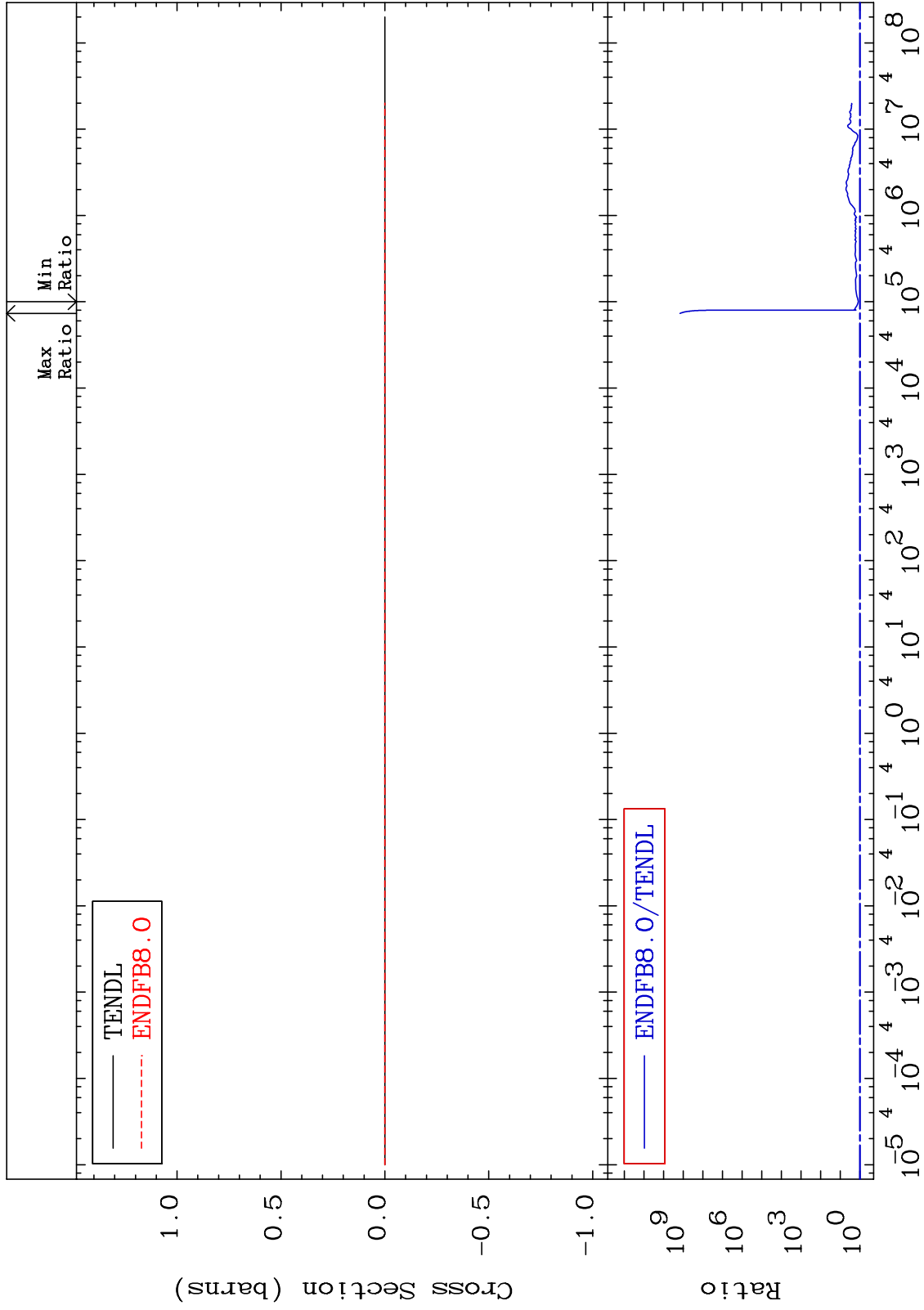
77-Ir-193
17.80 To 9999. %



MAT 7731

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

77-Ir-193
17.80 To 9999. %



50

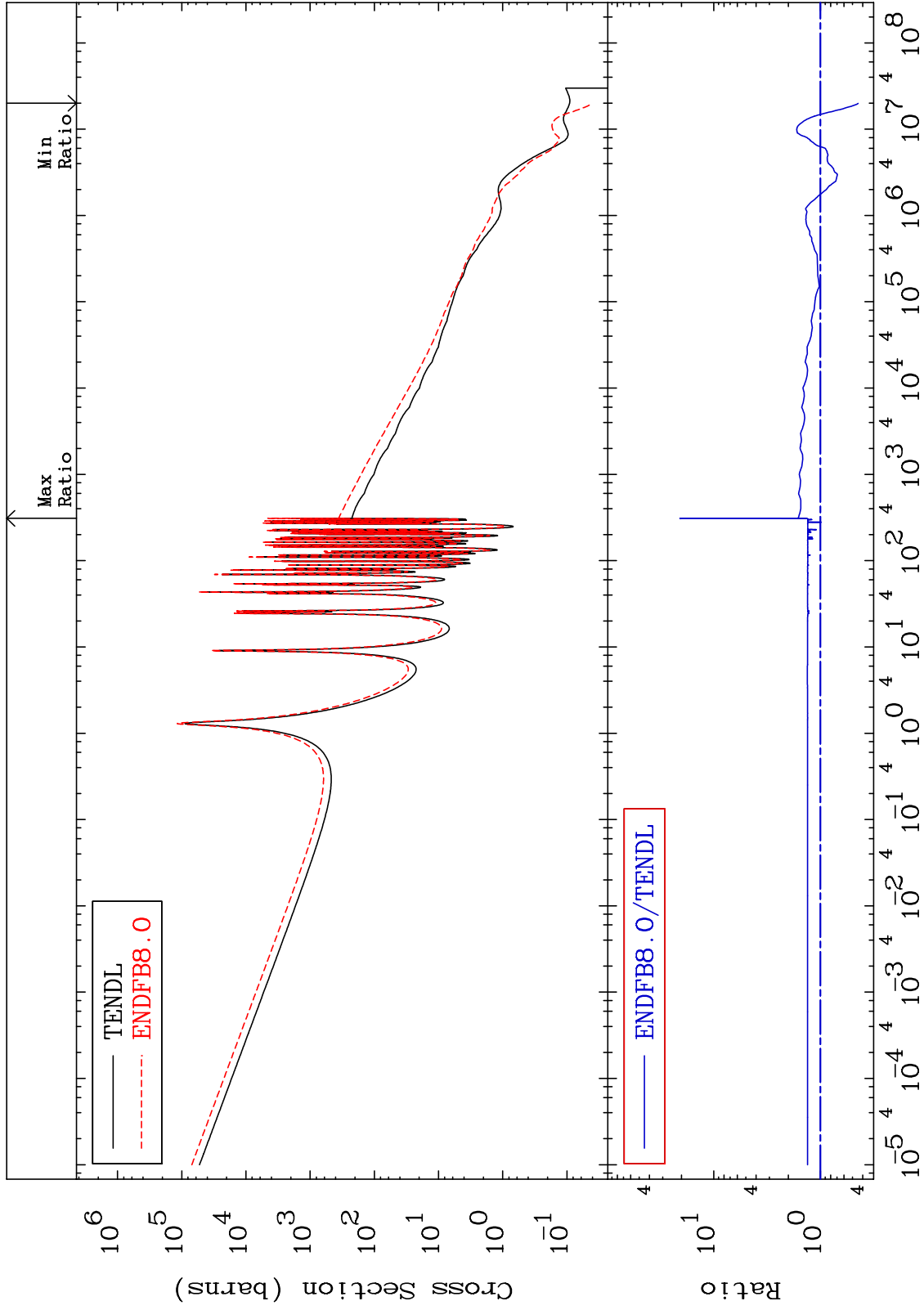
Incident Energy (eV)

77-Ir-193

MAT 7731

Kerma capture (mt102)
Cross Section

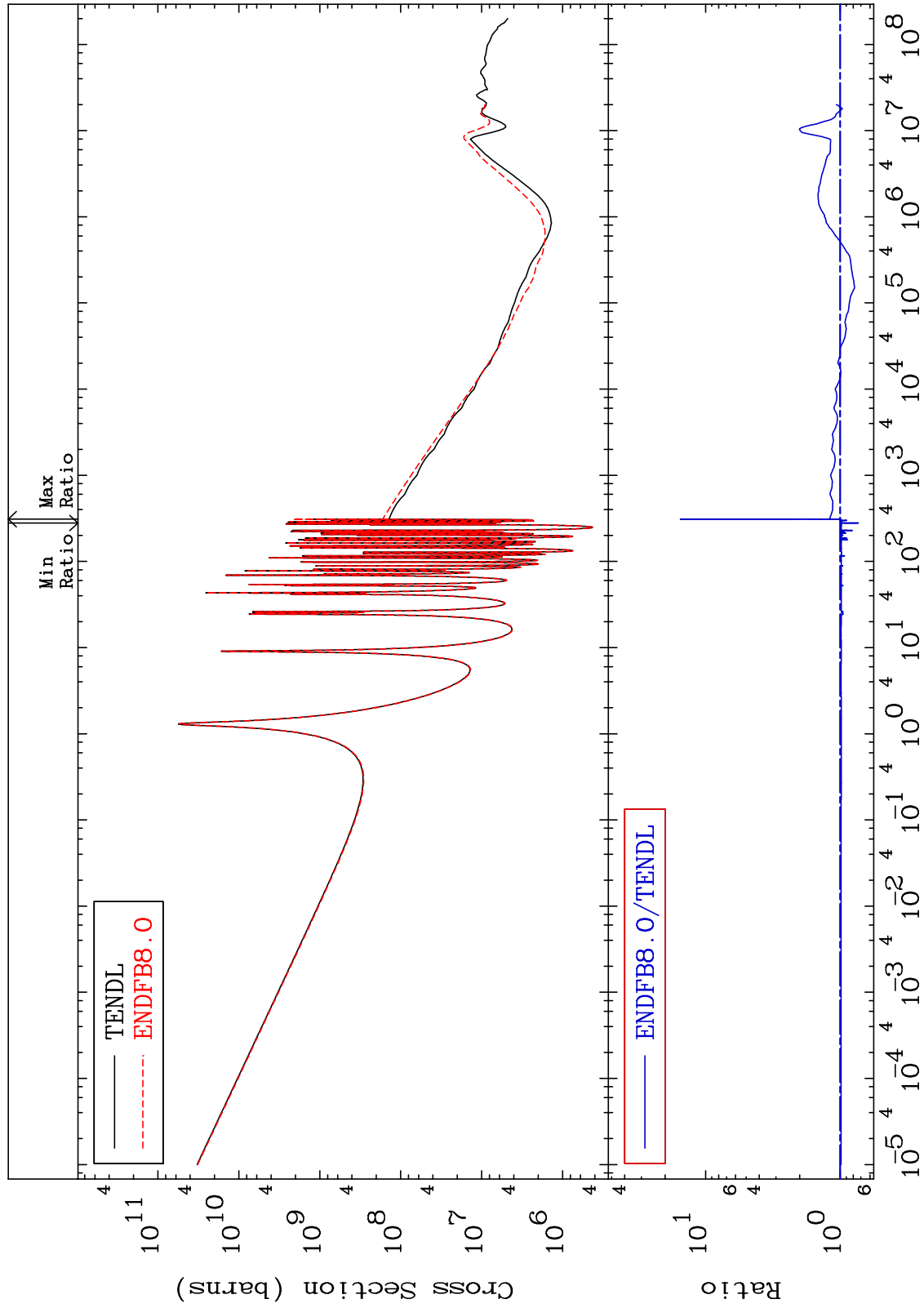
77-Ir-193
-56.01 To 1968. %



MAT 7731

Total photon (eV-barns)
Cross Section

77-Ir-193
-27.00 To 1440. %



52

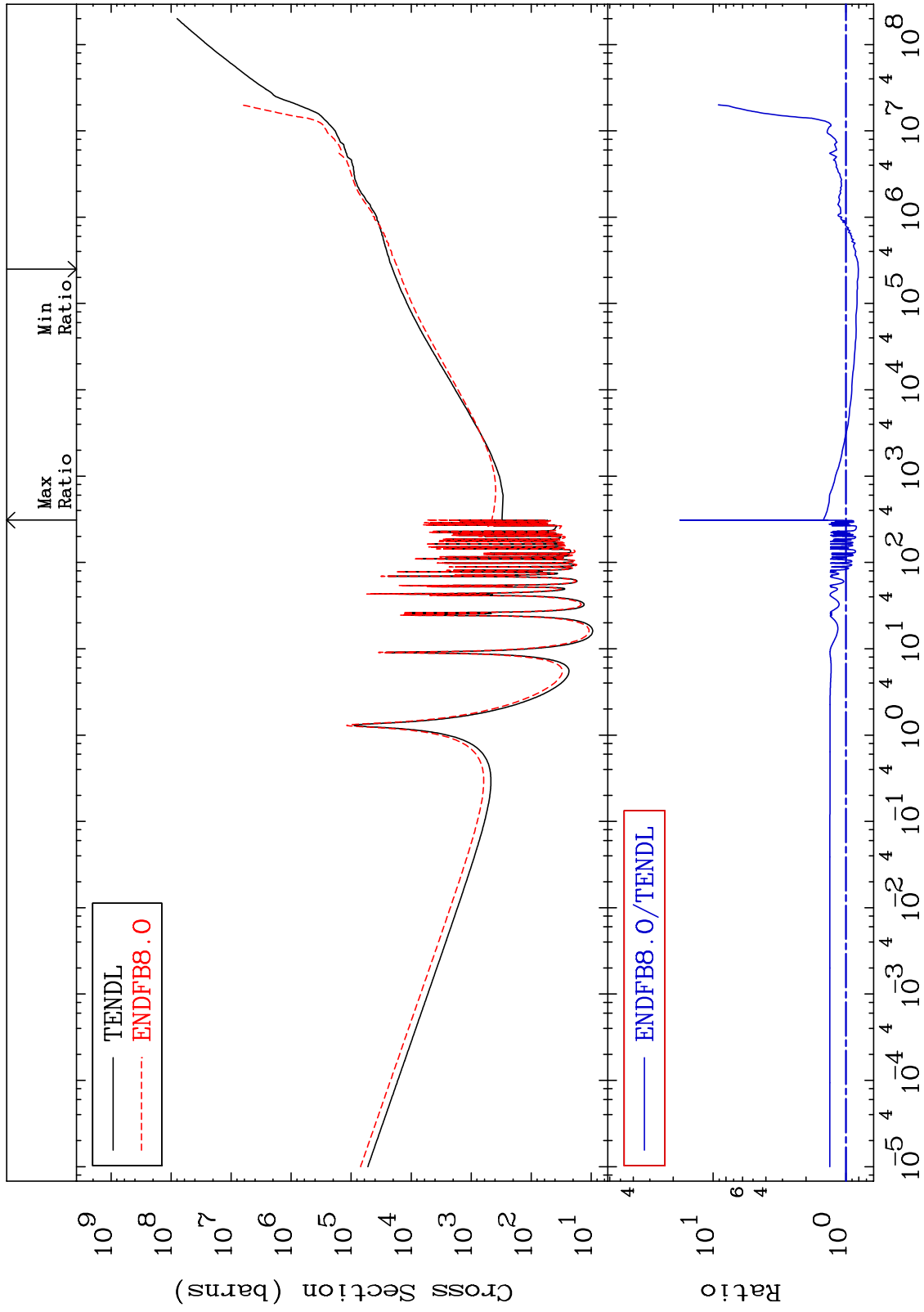
Incident Energy (eV)

77-Ir-193

MAT 7731

Total kinematic kerma (high limit)
Cross Section

77-Ir-193
-19.50 To 1675. %



53

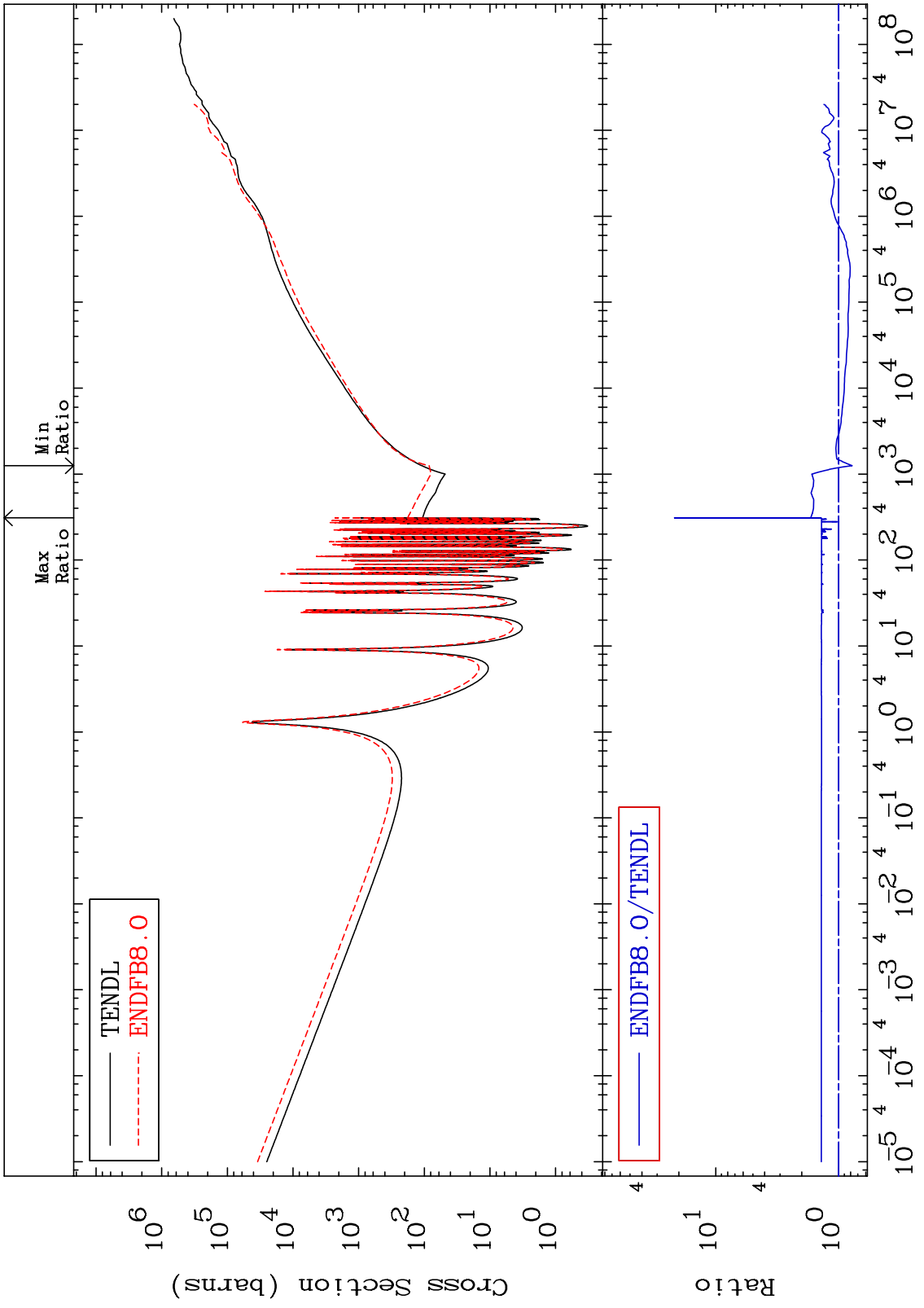
Incident Energy (eV)

77-Ir-193

MAT 7731

Dpa total (eV-barns)
Cross Section

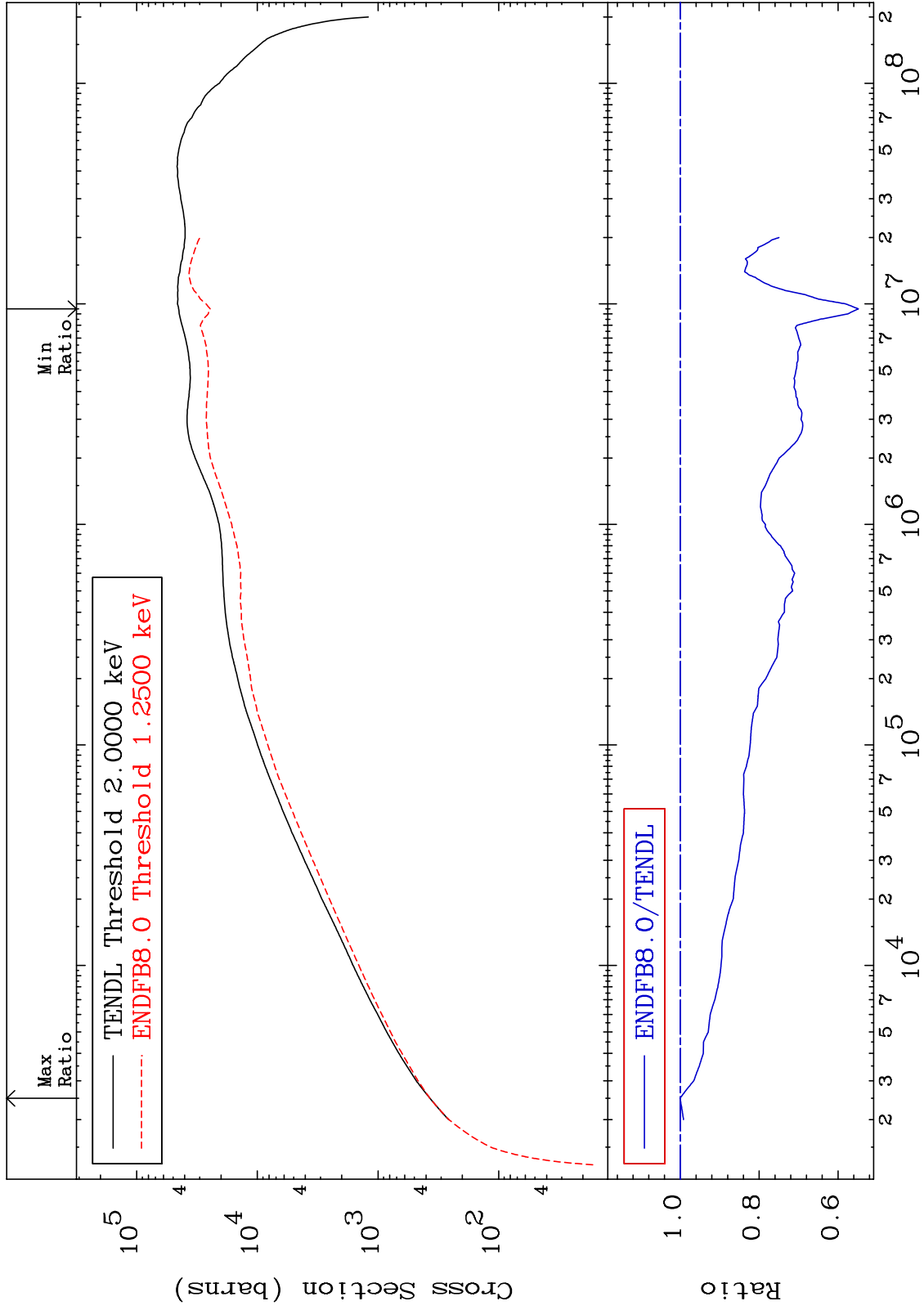
77-Ir-193
-22.39 To 2066. %



MAT 7731

Dpa elastic (mt2)
Cross Section

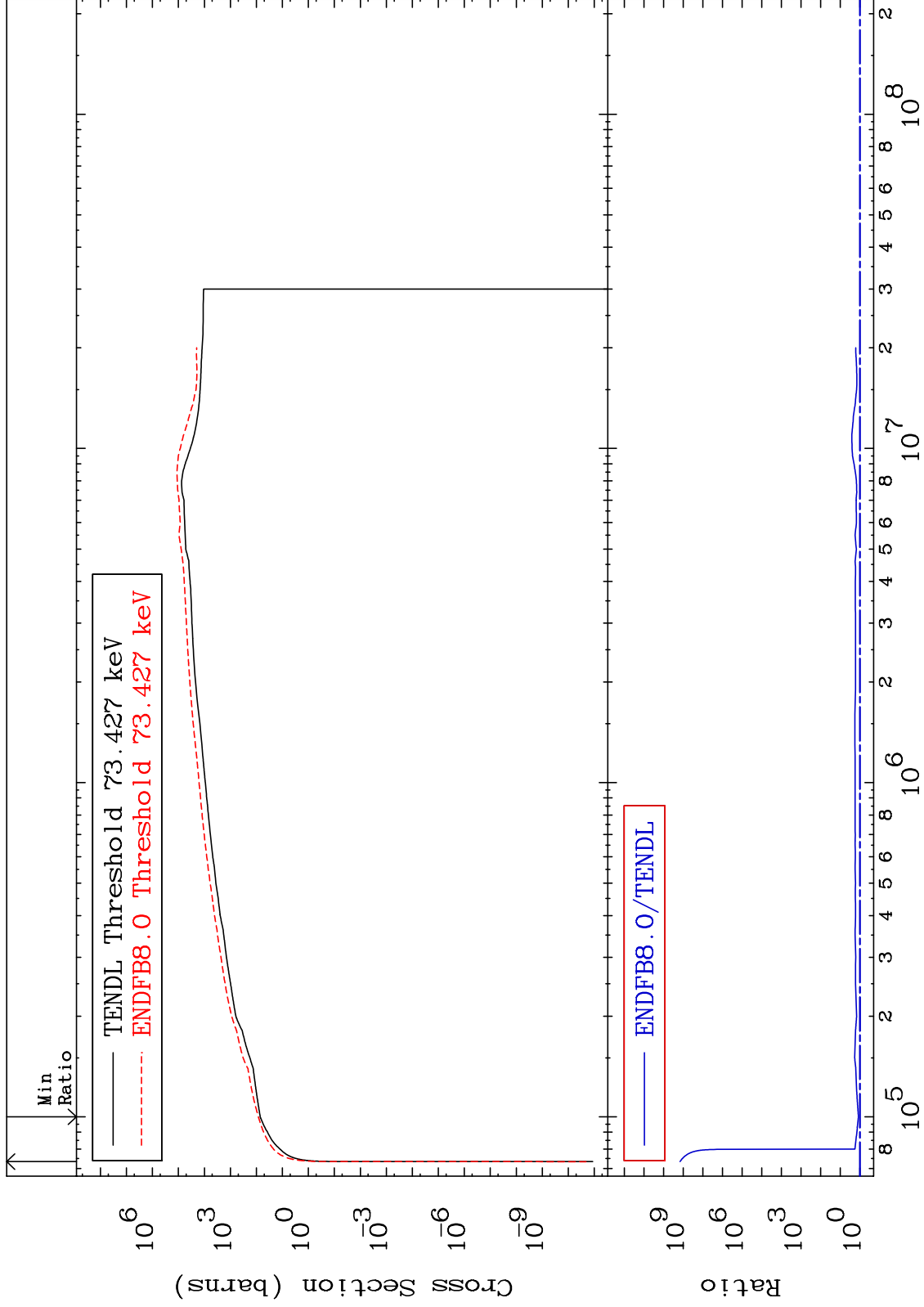
77-Ir-193
-45.17 To 0.079 %



MAT 7731

Dpa inelastic (mt51-91)
Cross Section

77-Ir-193
17.80 To 9999. %



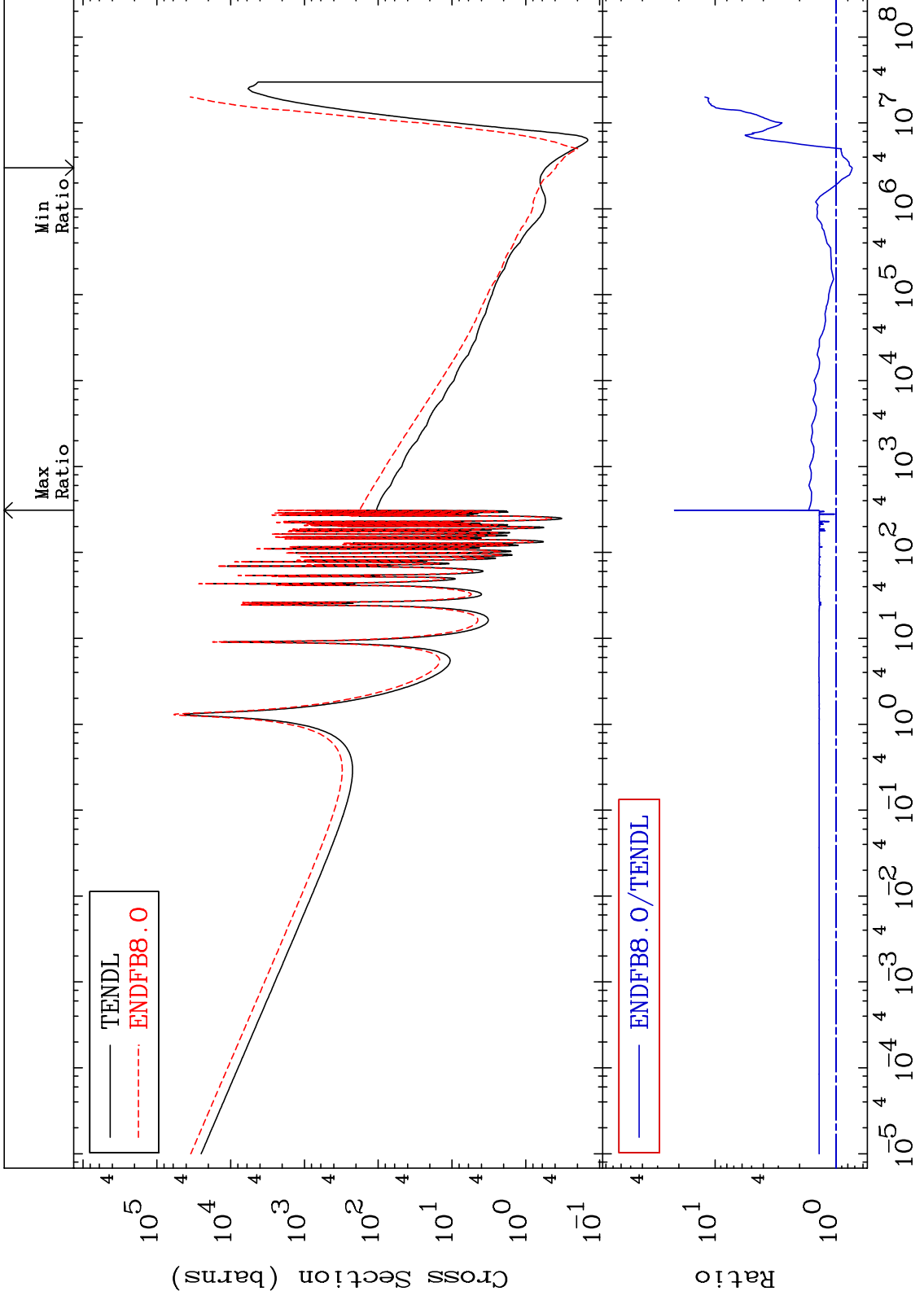
56

77-Ir-193

MAT 7731

Dpa disappearance (mt102 -120)
Cross Section

77-Ir-193
-26.40 To 2066. %

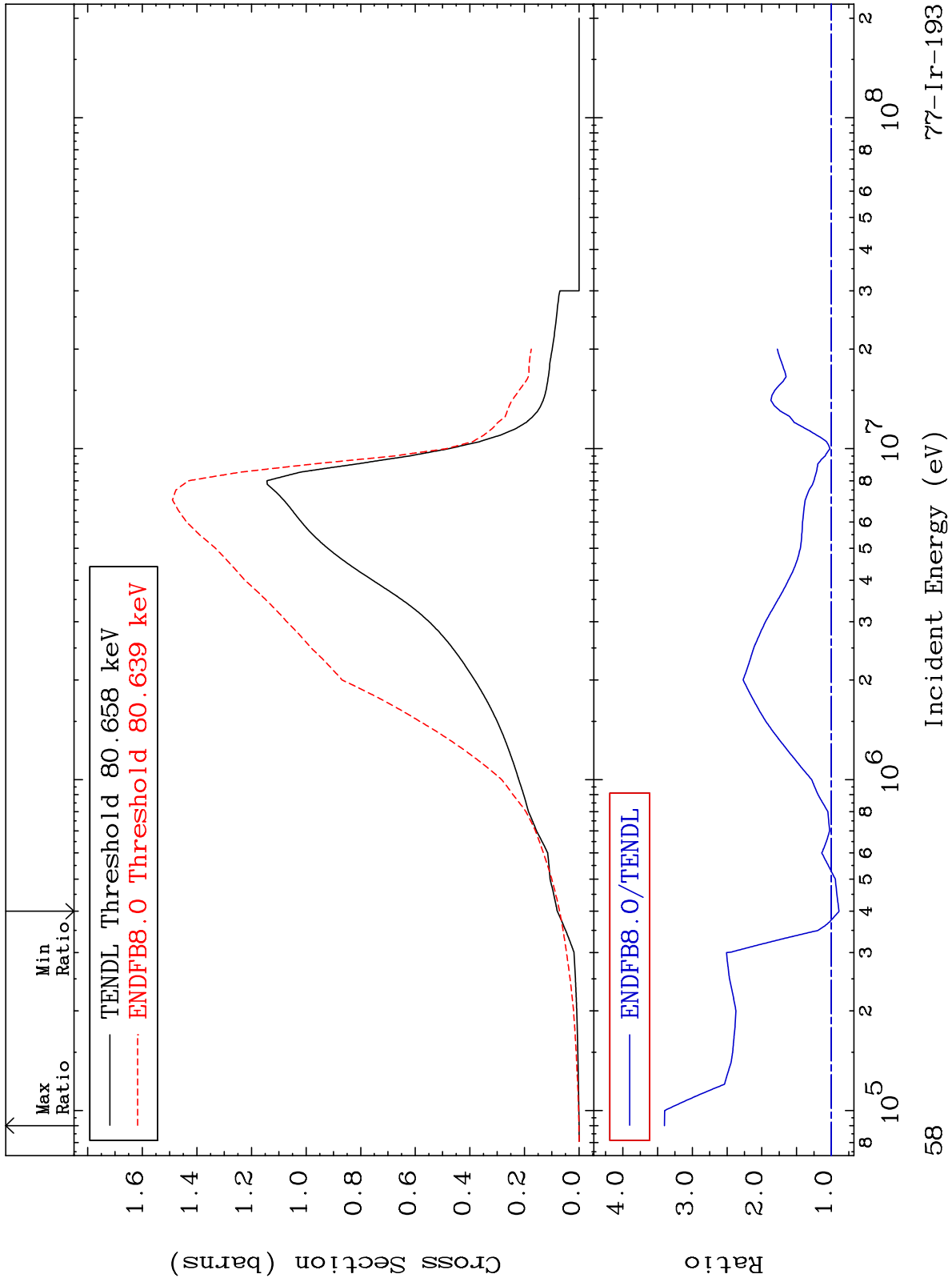


MAT 7731

Inelastic:77-Ir-193m2

77-Ir-193

Radionuclide Production Cross Section -11.09 To 240.1 %

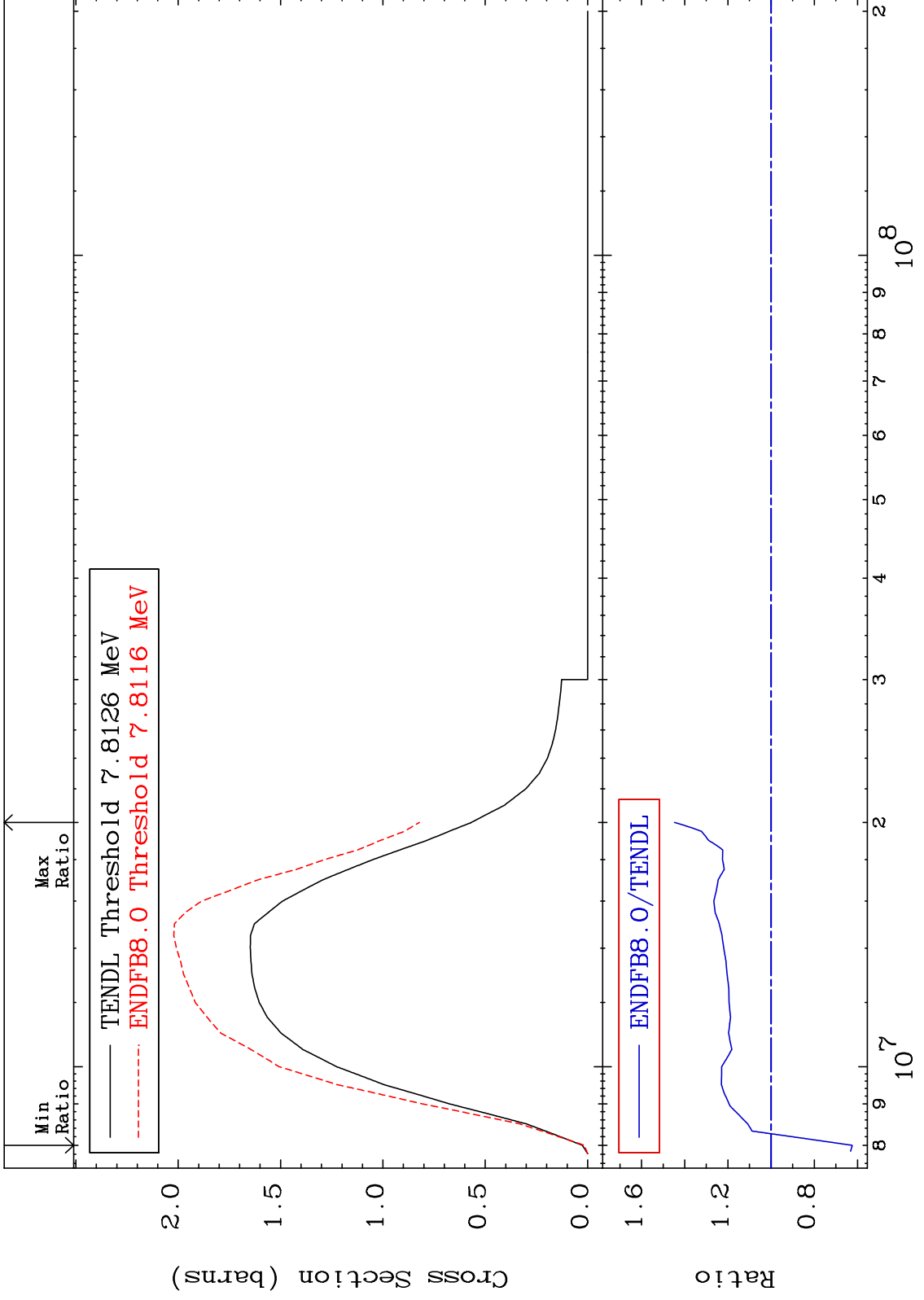


MAT 7731

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

77-Ir-193

Radionuclide Production Cross Section -37.56 To 44.70 %



59

Incident Energy (eV)

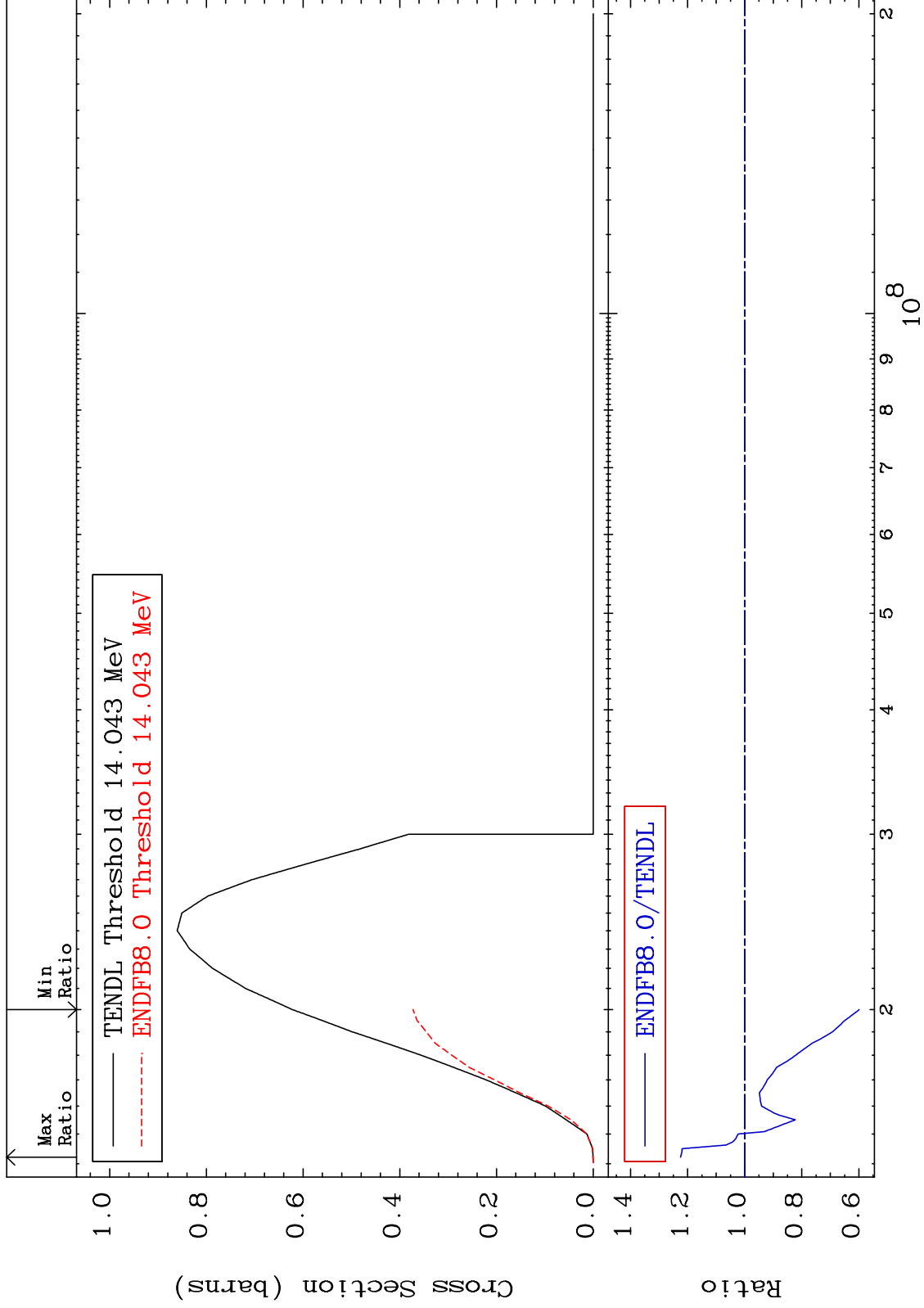
77-Ir-193

MAT 7731

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

77-Ir-193

Radionuclide Production Cross Section -40.10 To 22.46 %



MAT 7731

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

77-Ir-193

Radionuclide Production Cross Section -13.58 To 88.95 %

