

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

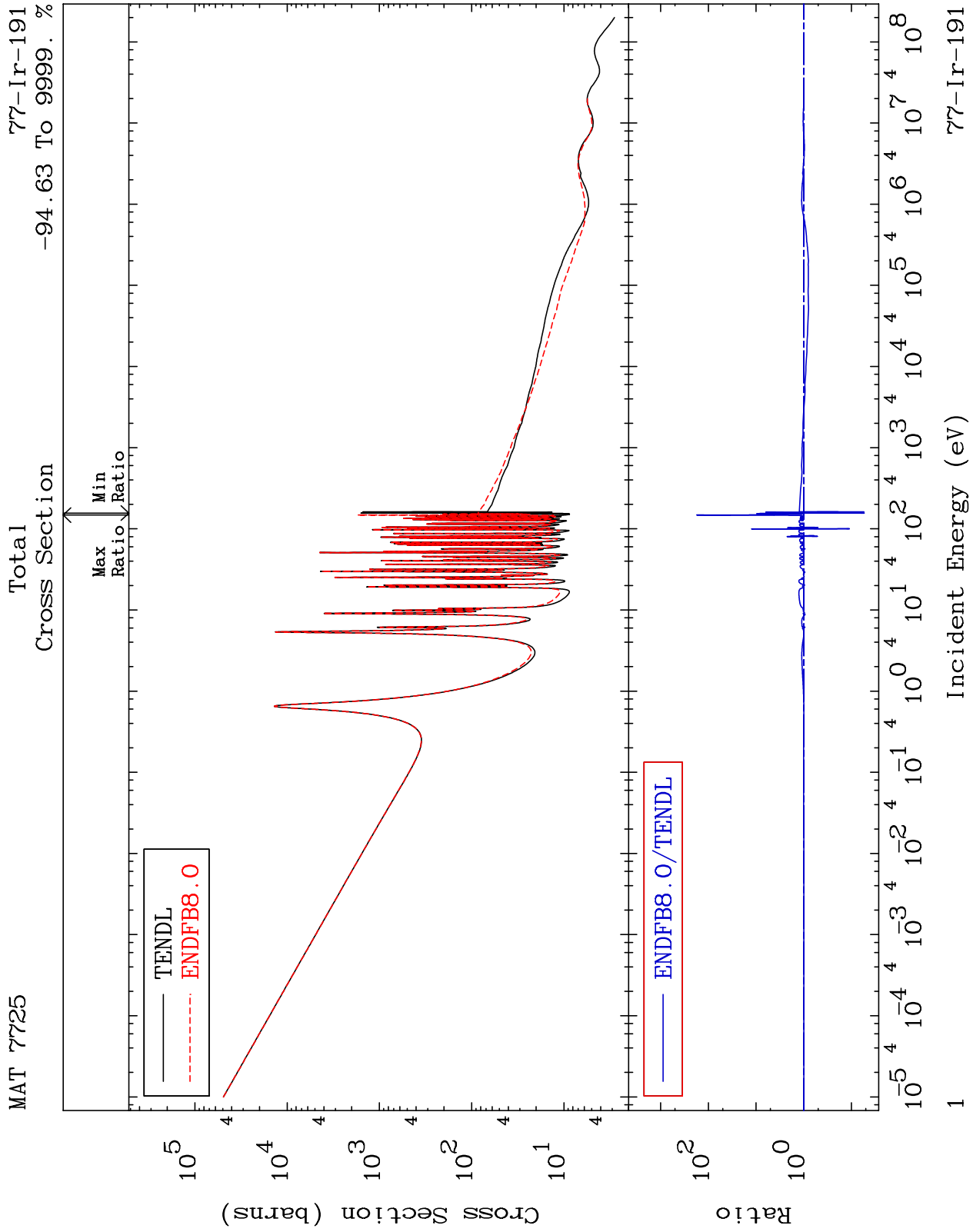
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

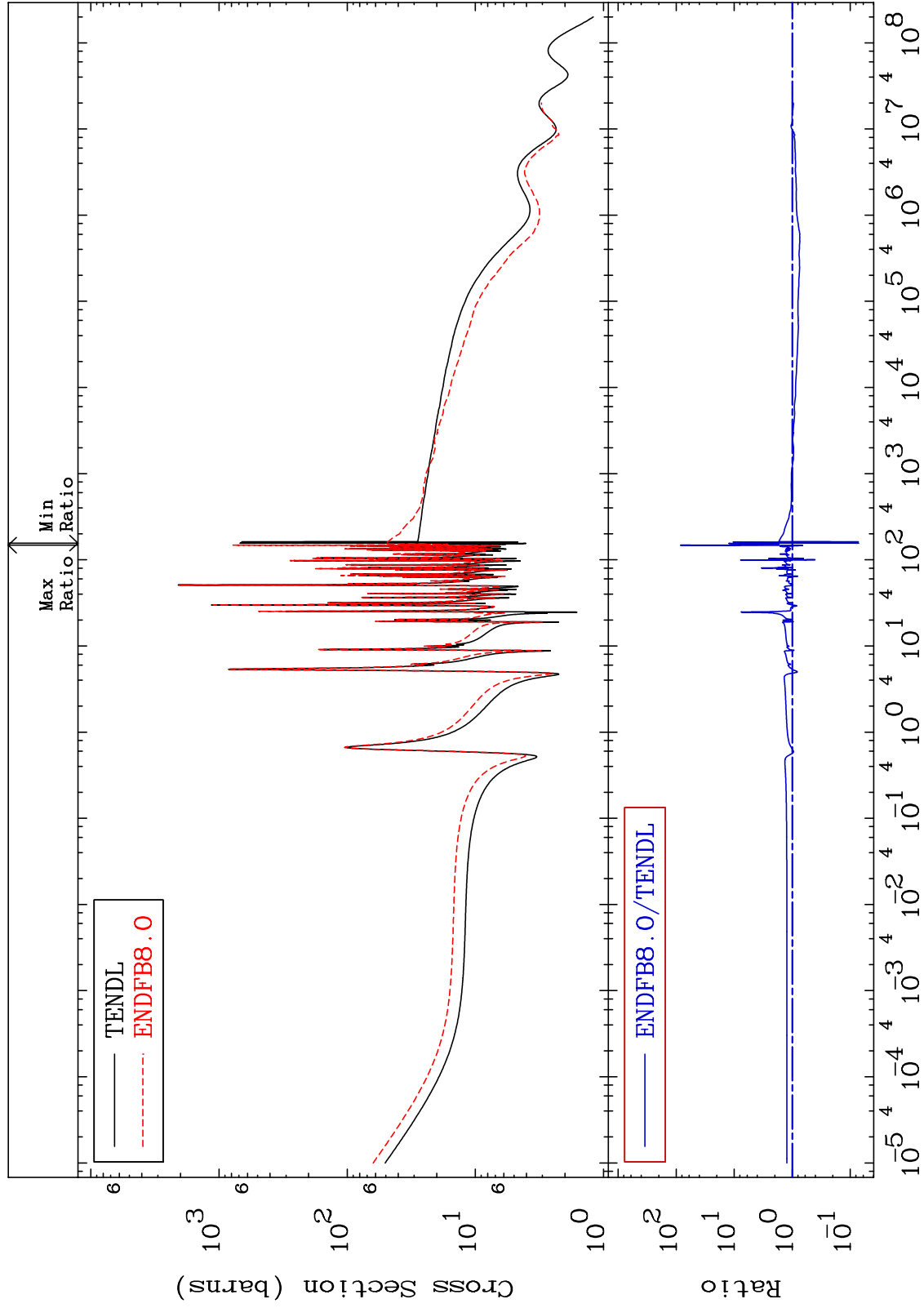
Press Mouse Button to Start



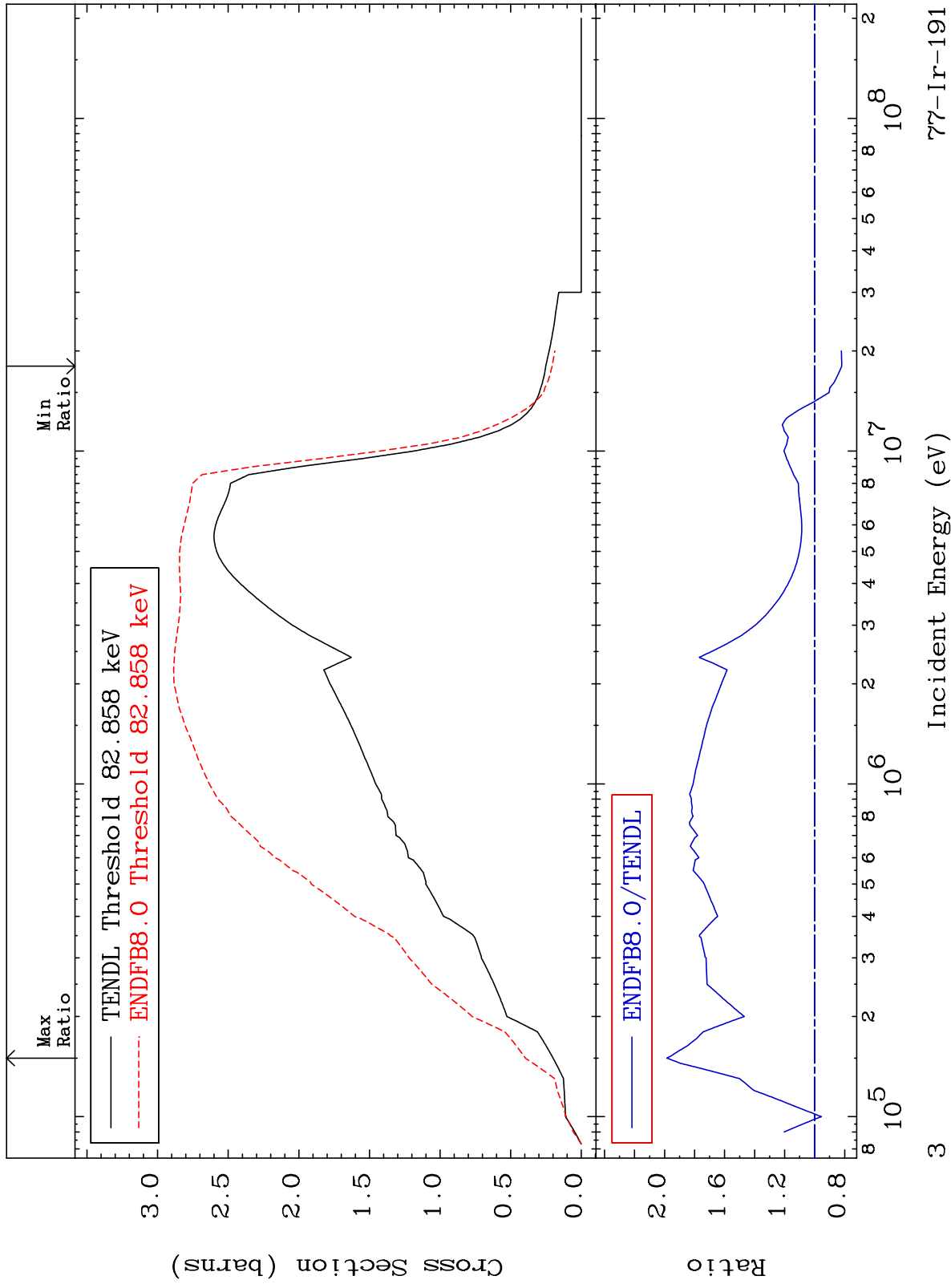
MAT 7725

Elastic
Cross Section

$^{77}\text{Ir-191}$
-92.78 To 8349. %



MAT 7725 Inelastic 77-Ir-191
Cross Section -18.09 To 98.49 %



3 Incident Energy (eV) 77-Ir-191

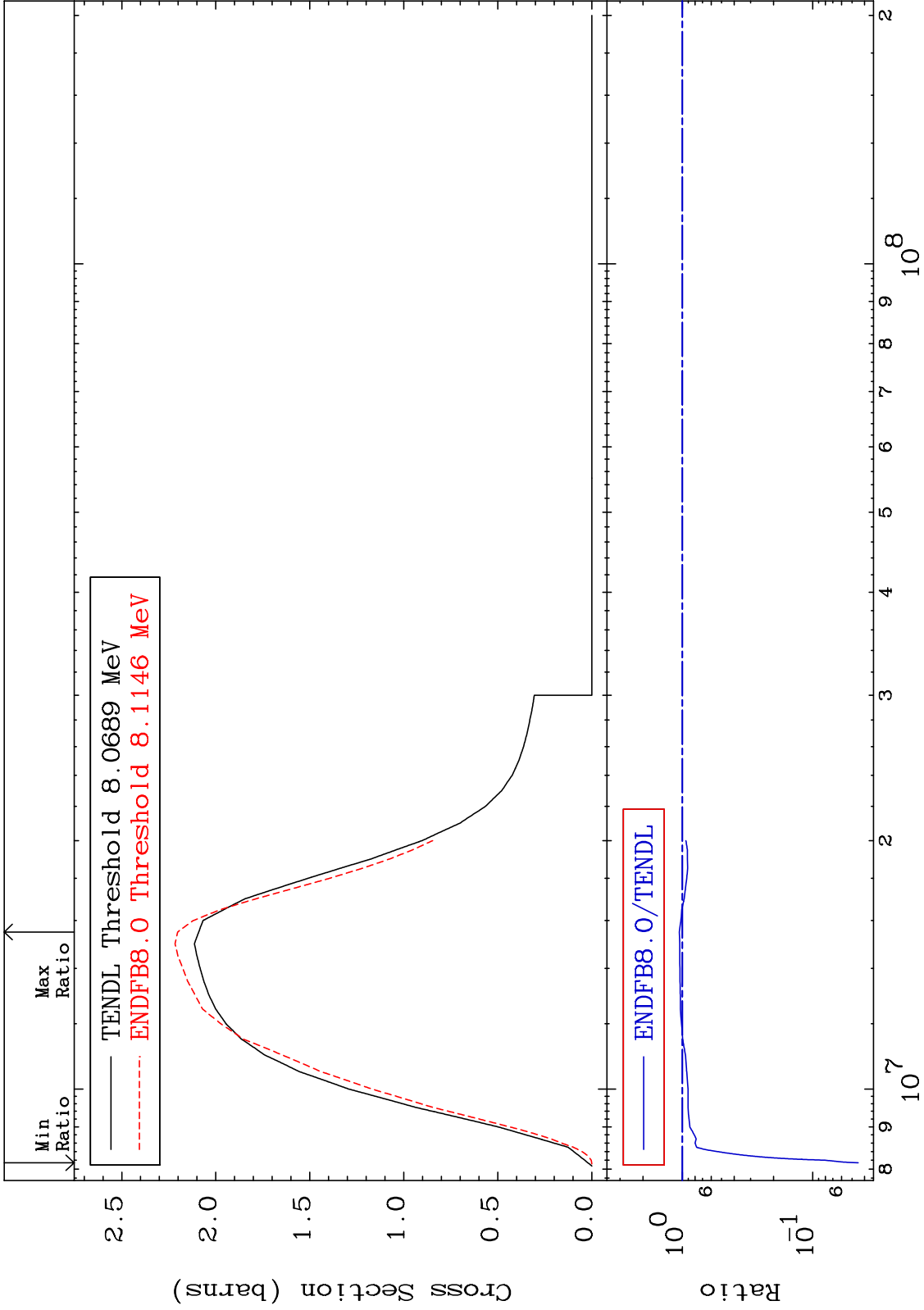
MAT 7725

(n, 2n)

⁷⁷Ir-191

Cross Section

-95.52 To 5.352 %



4

Incident Energy (eV)

⁷⁷Ir-191

MAT 7725

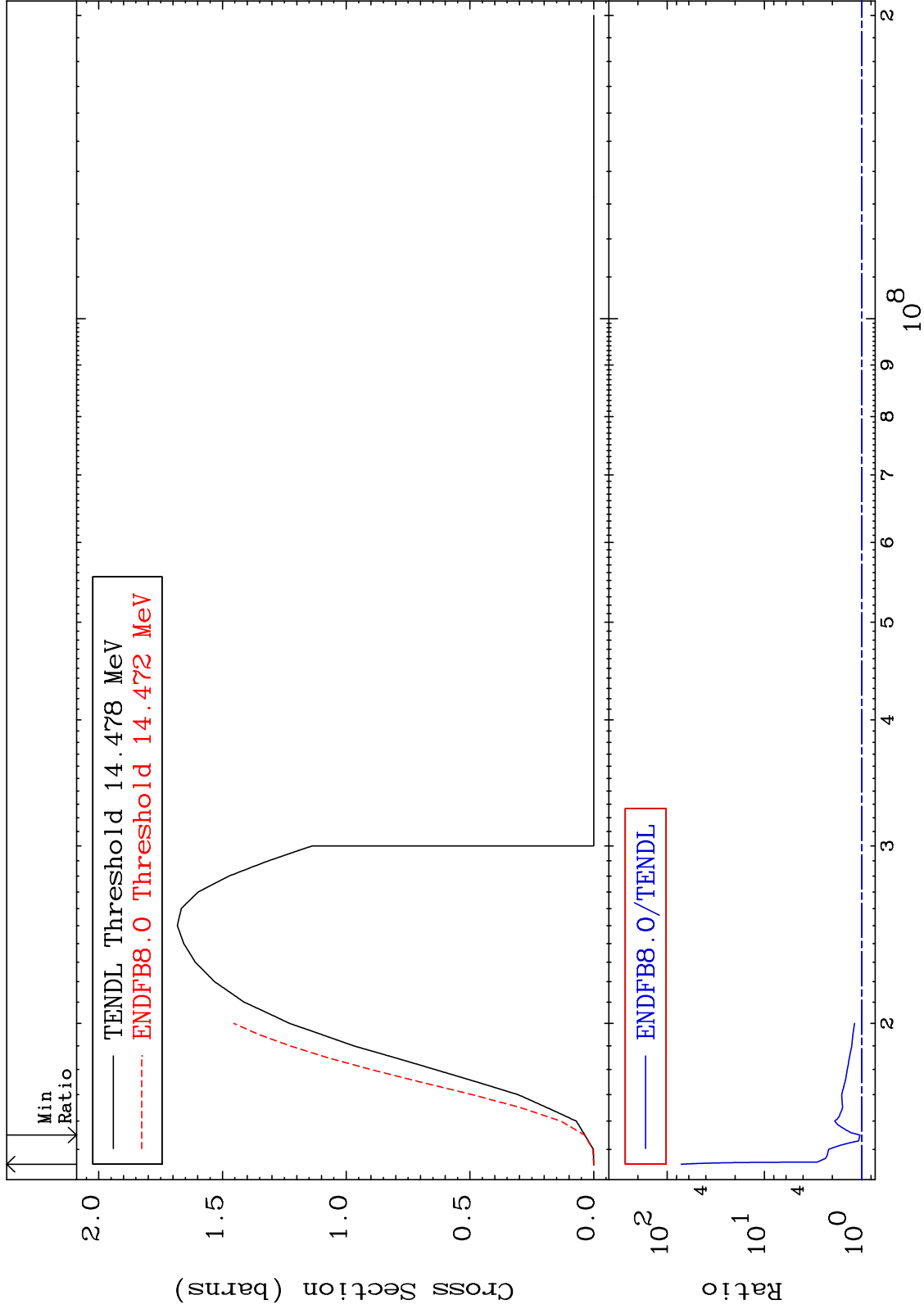
(n,3n)

⁷⁷Ir-191

Cross Section

4.121

To 7077. %



Incident Energy (eV)

⁷⁷Ir-191

5

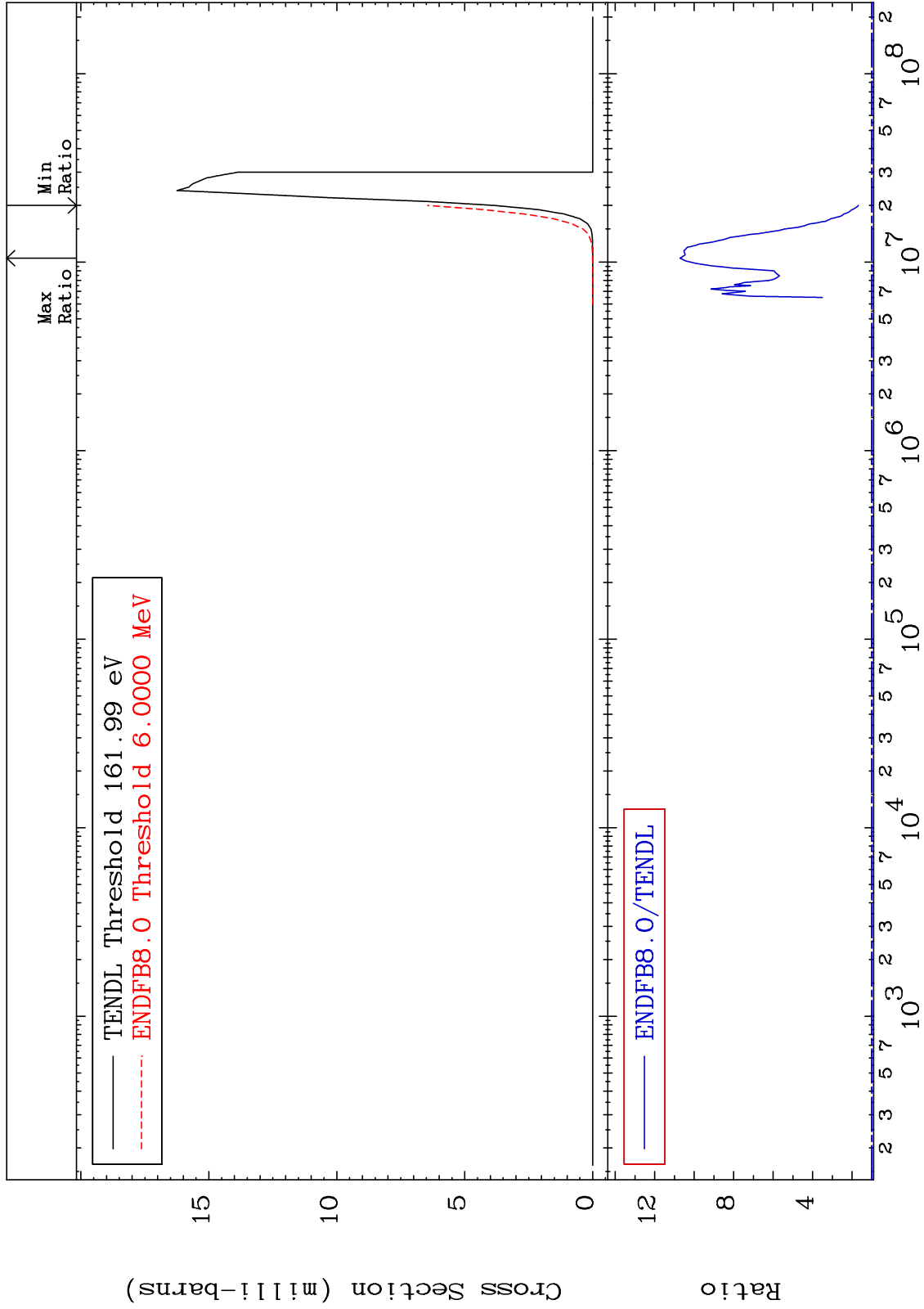
MAT 7725

(n, n') α

Cross Section

77-Ir-191

67.88 To 971.5 %



6

Incident Energy (eV)

77-Ir-191

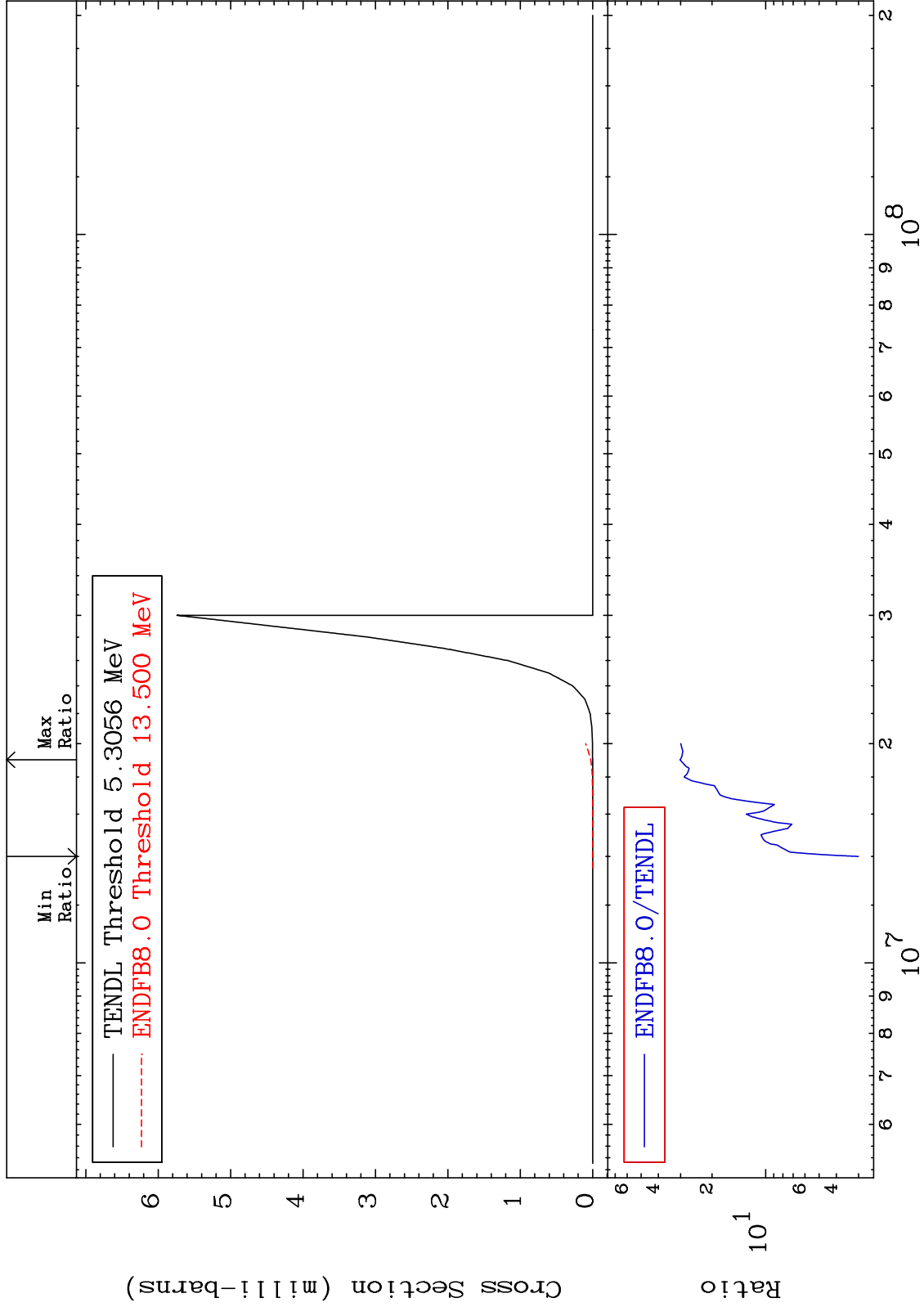
MAT 7725

(n,2n) α

77-Ir-191

Cross Section

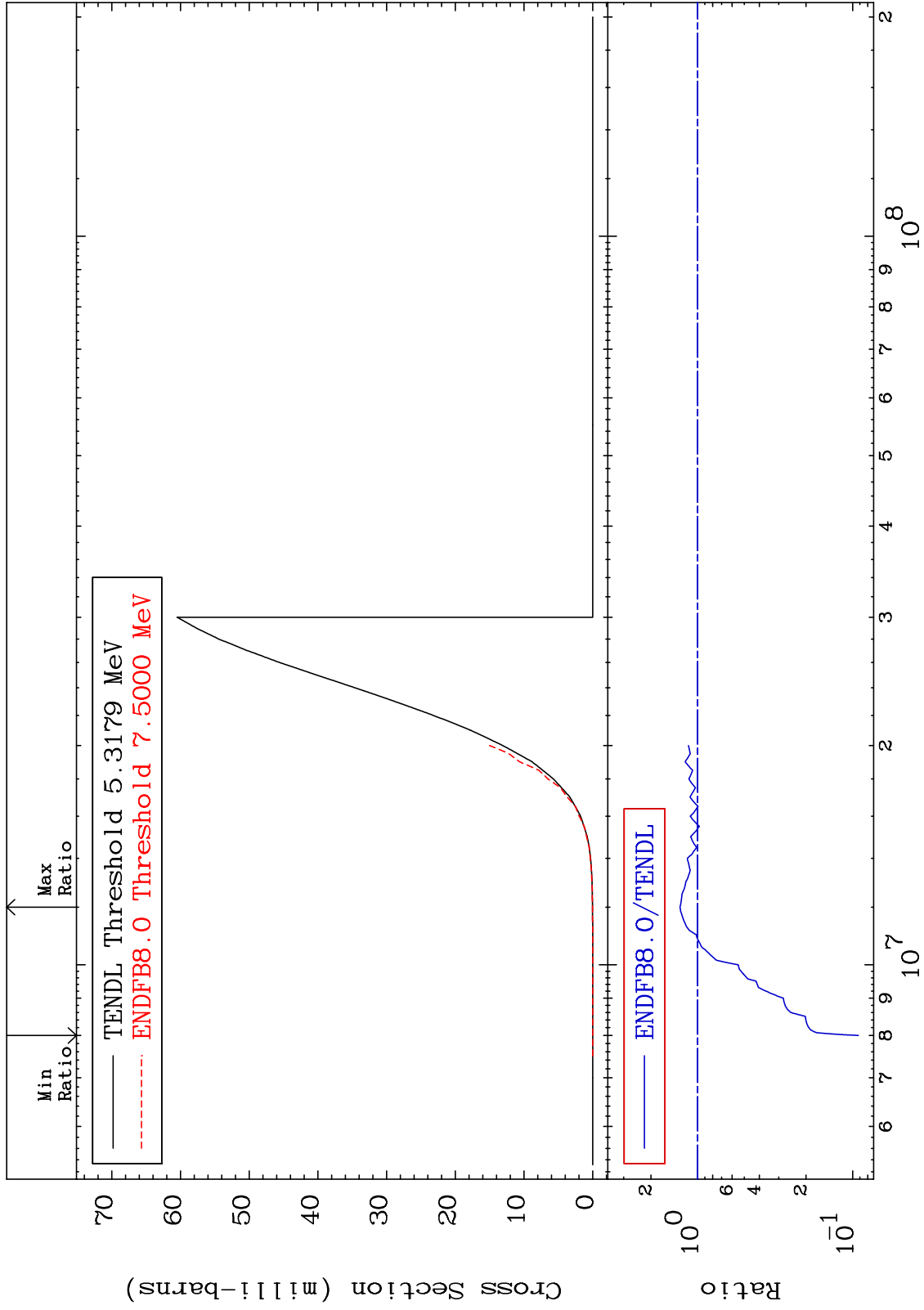
200.7 To 2926. %



MAT 7725

(n,n') p
Cross Section

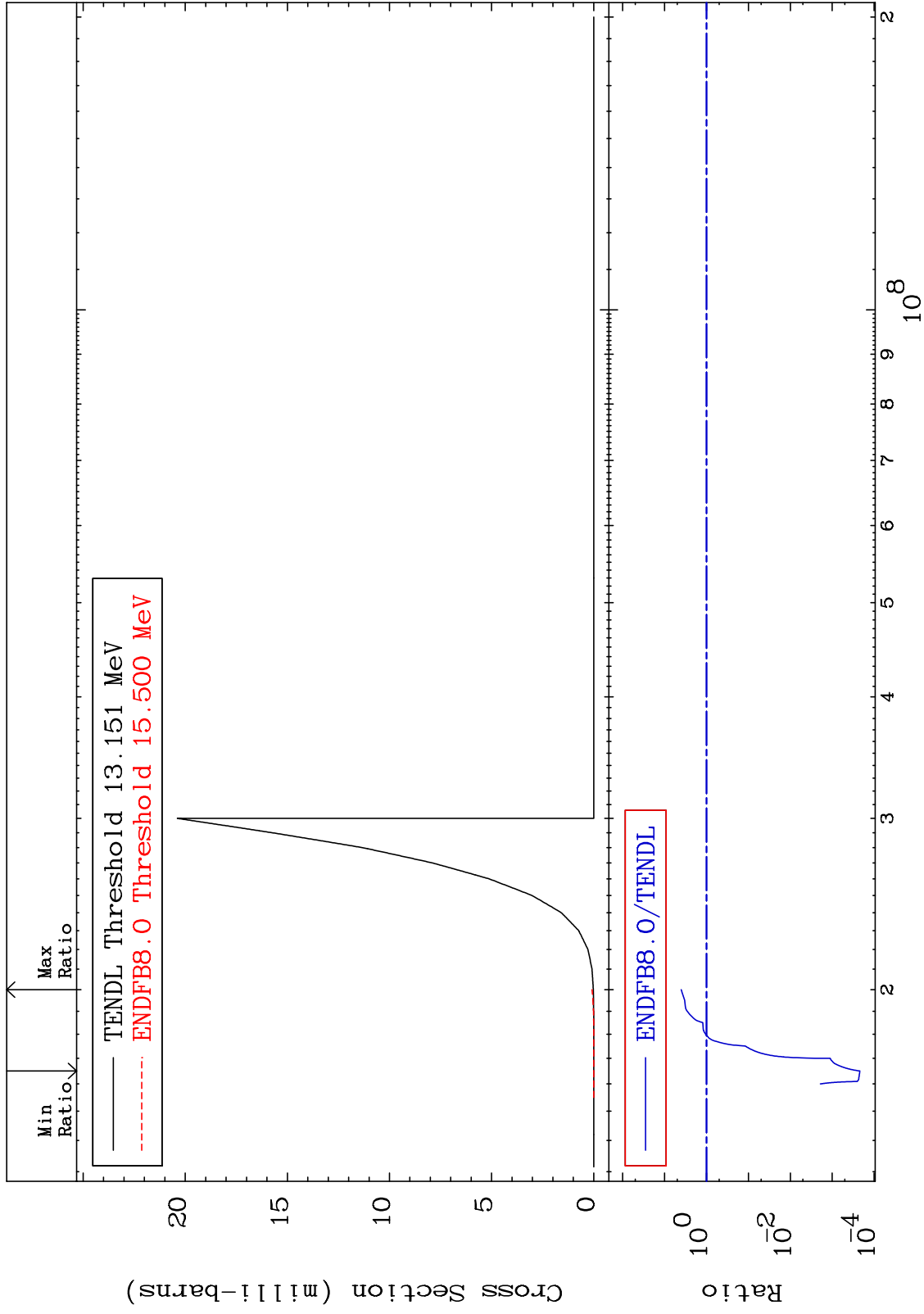
⁷⁷Ir-191
-90.81 To 29.93 %



MAT 7725

(n,2n) p
Cross Section

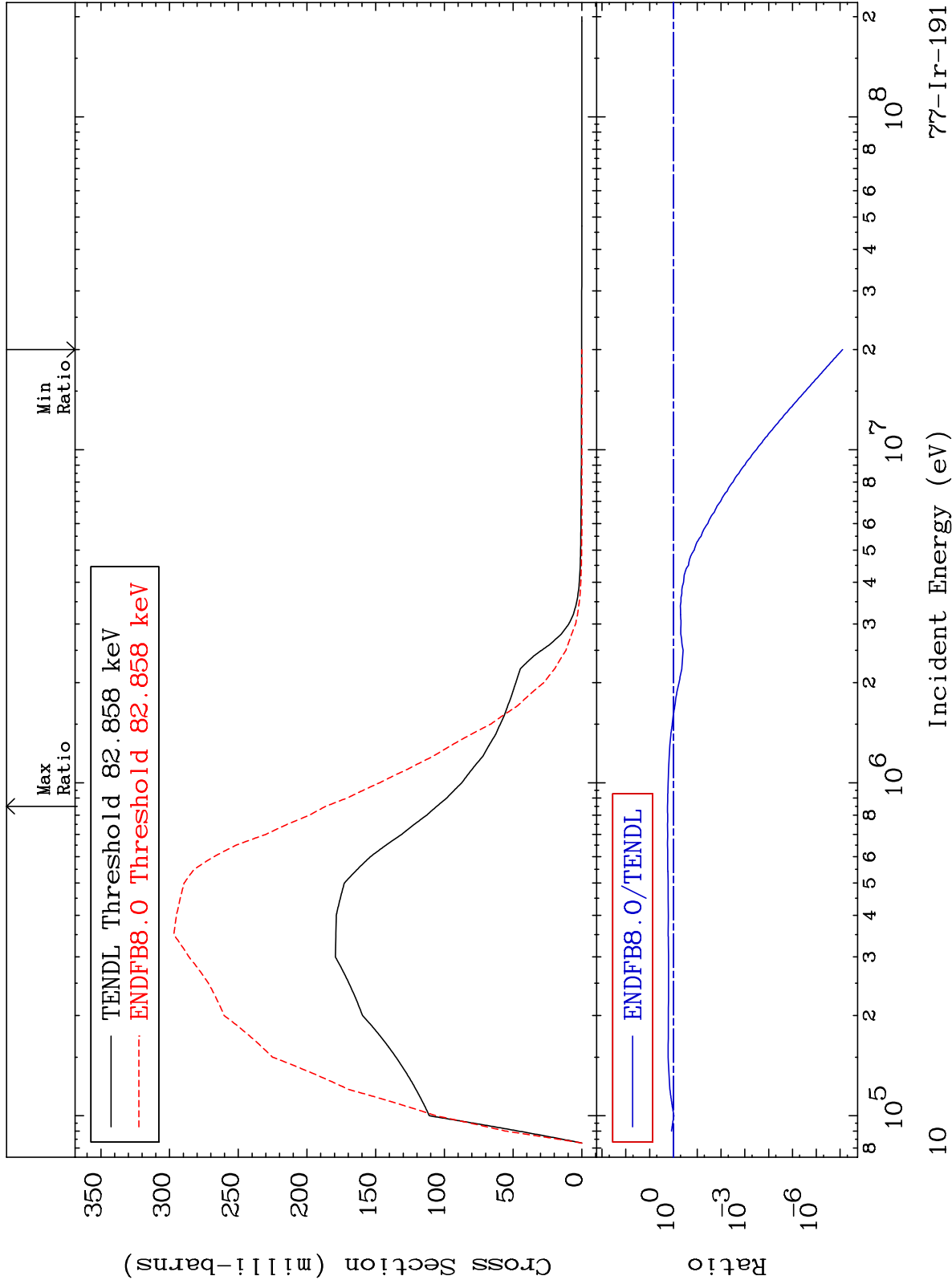
⁷⁷Ir-191
-99.98 To 301.1 %



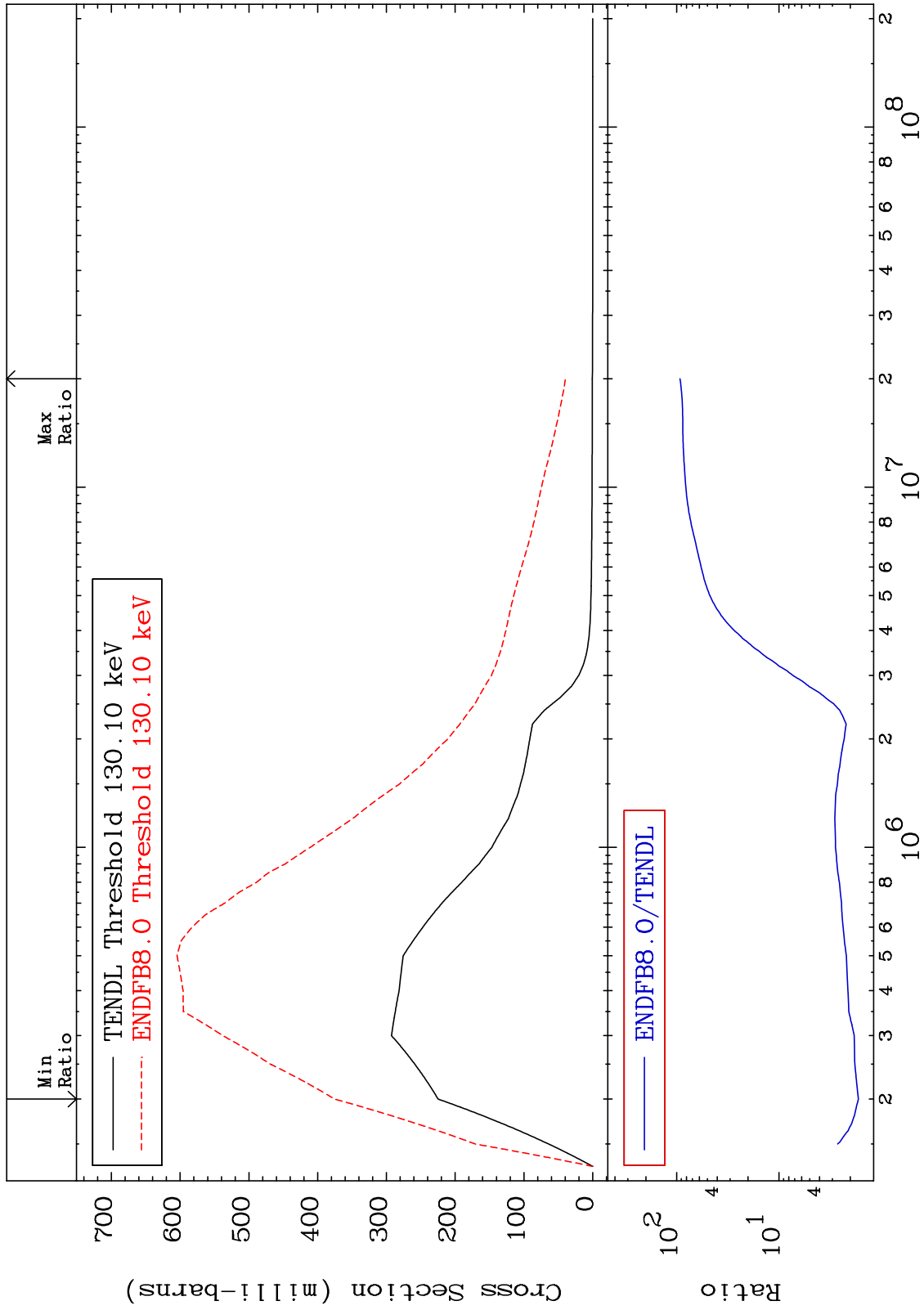
MAT 7725

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

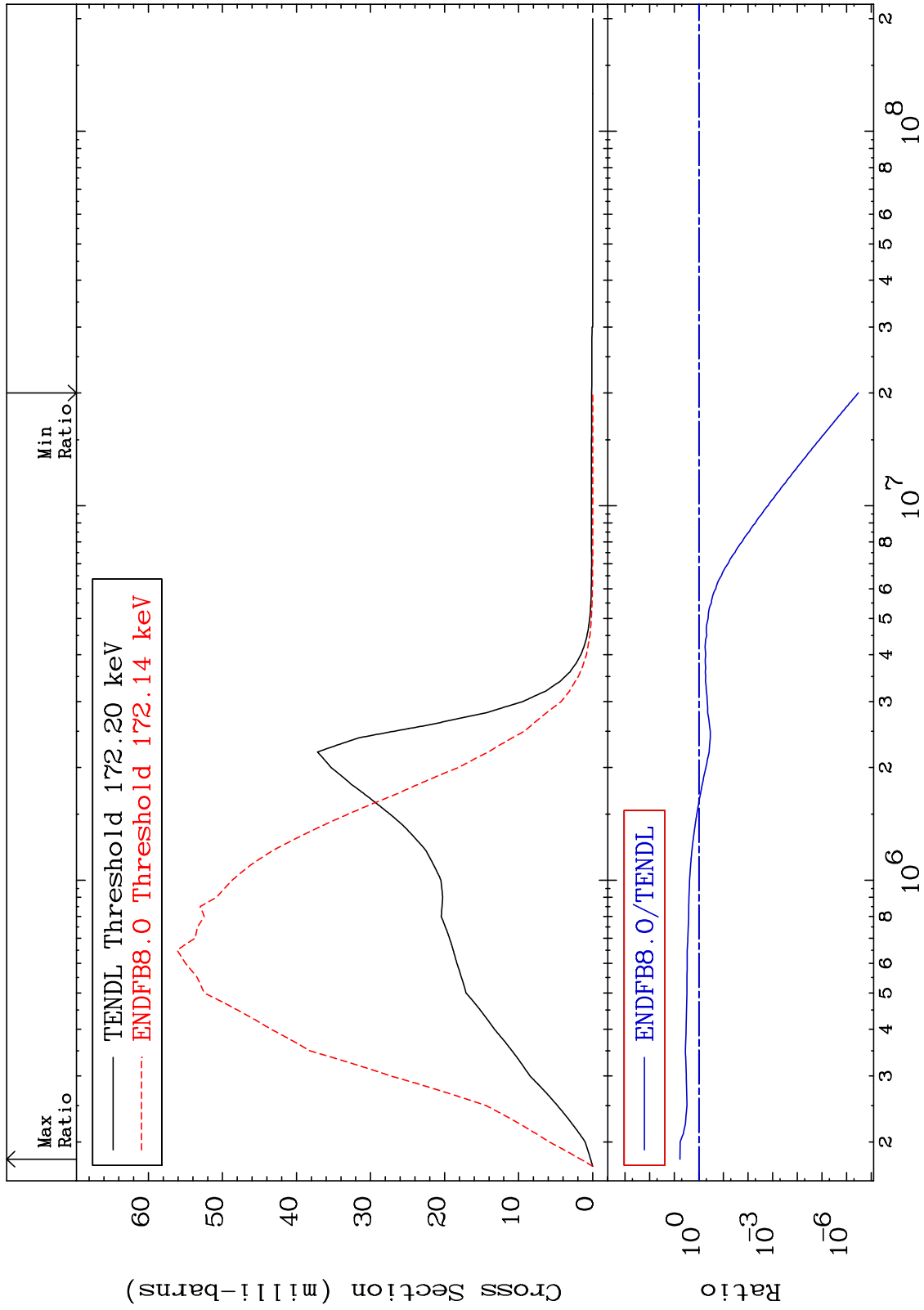
77-Ir-191
-100.0 To 76.57 %



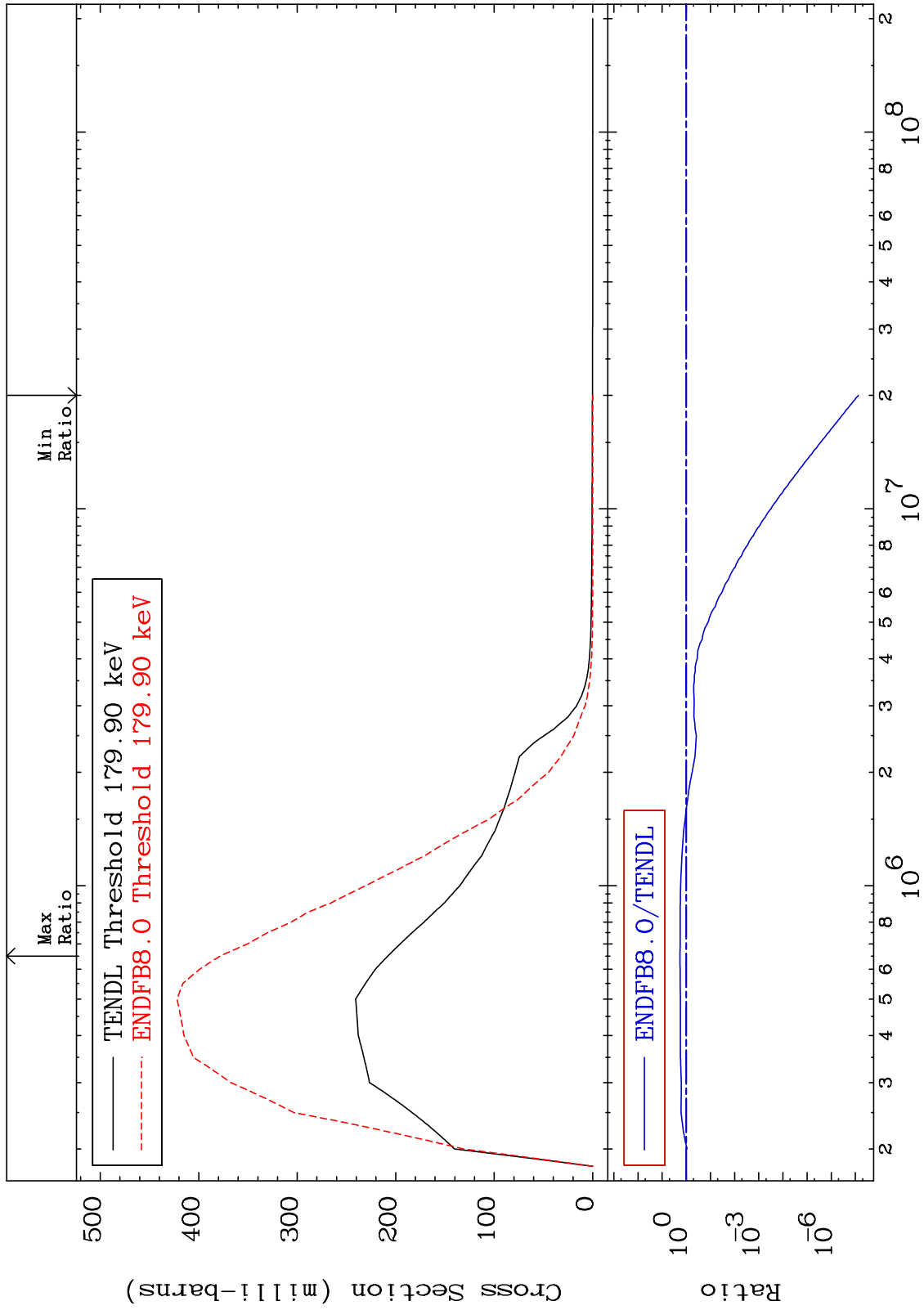
MAT 7725 MT= 52 (n,n') Level Cross Section 77-Ir-191 66.98 To 9162. %



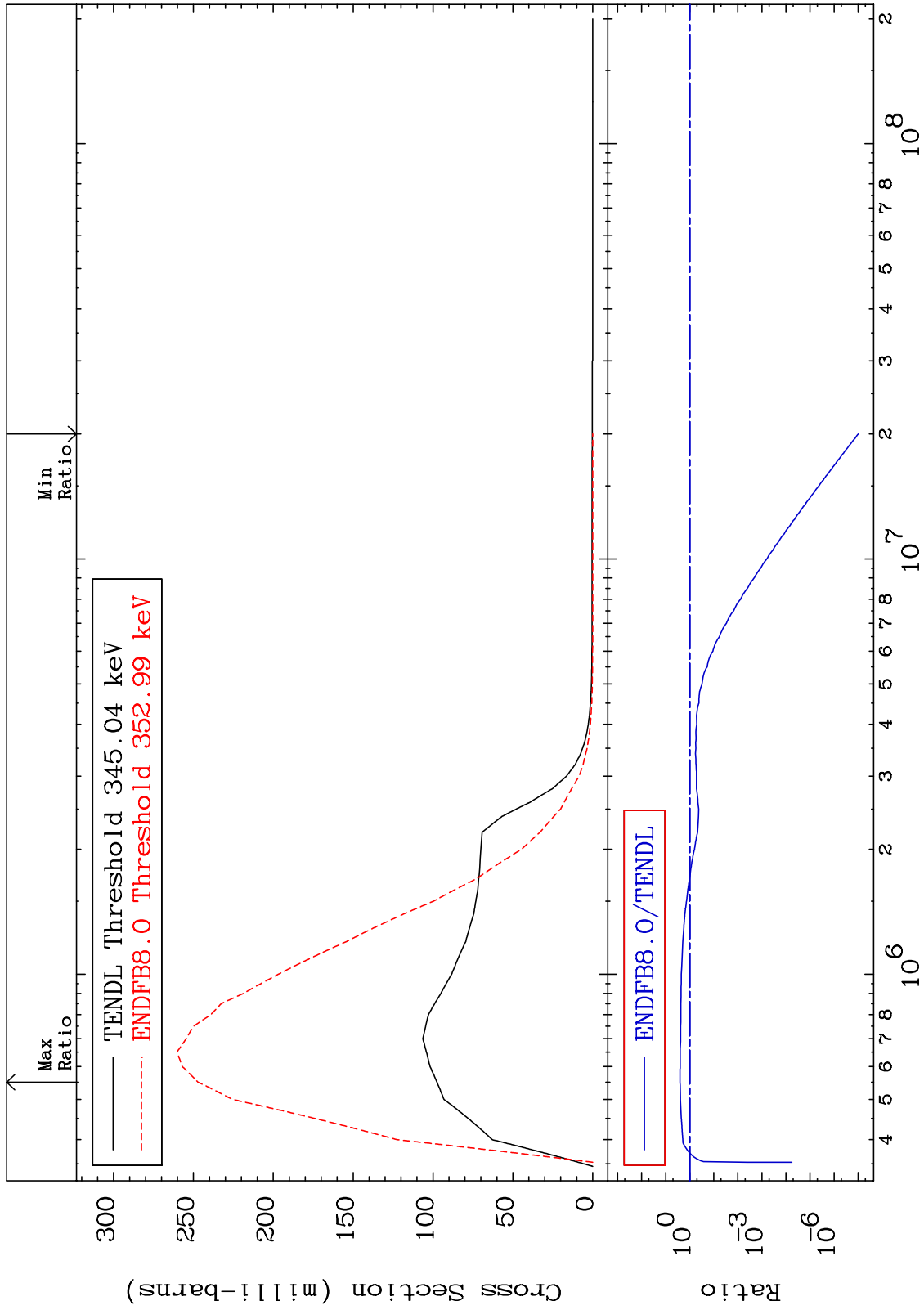
MAT 7725 MT= 53 (n,n') Level Cross Section -100.0 To 480.5 % 77-Ir-191



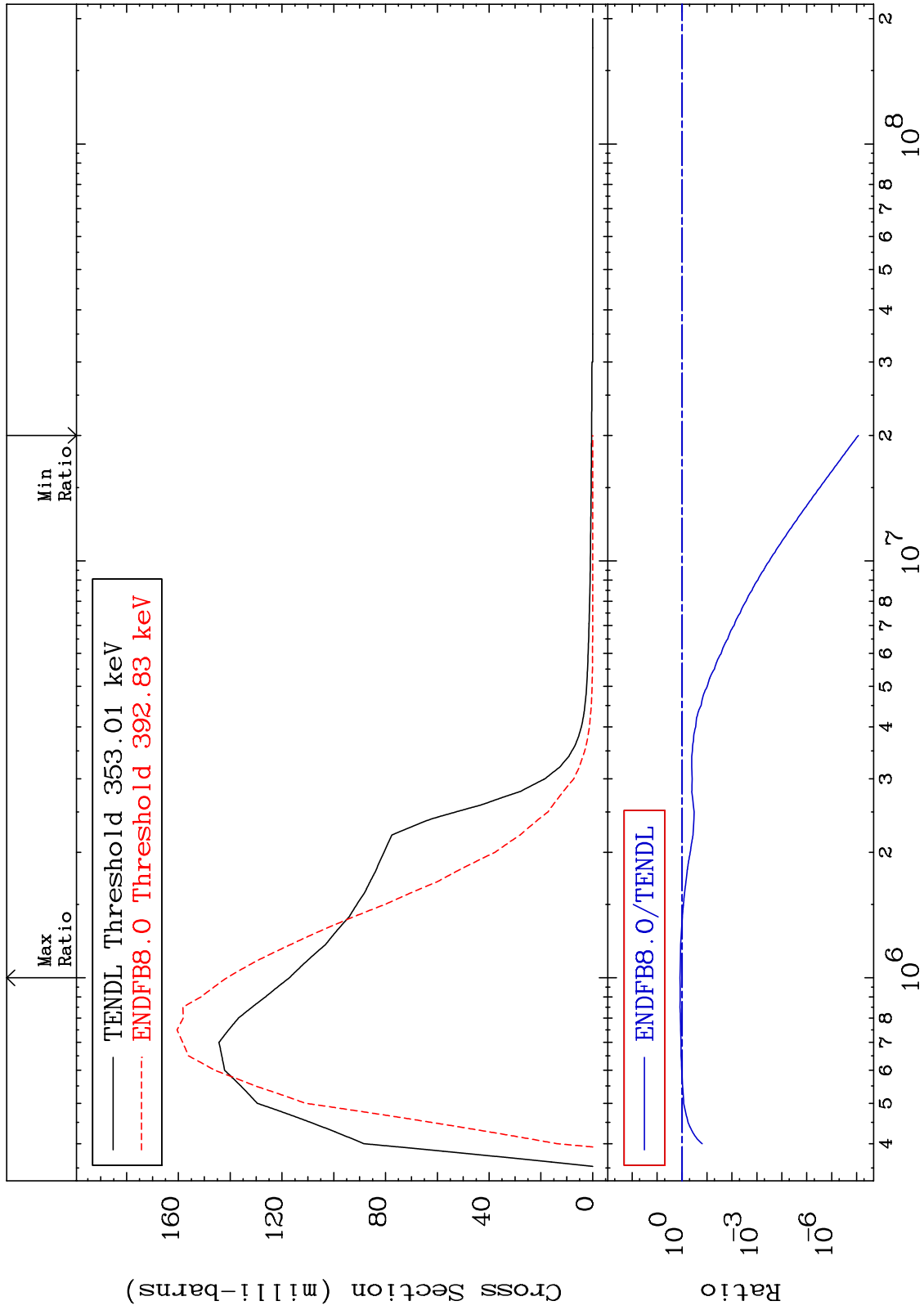
MAT 7725 MT= 54 (n,n') Level Cross Section 77-Ir-191 -100.0 To 81.87 %



MAT 7725 MT= 56 (n,n') Level Cross Section -100.0 To 153.4 % 77-Ir-191



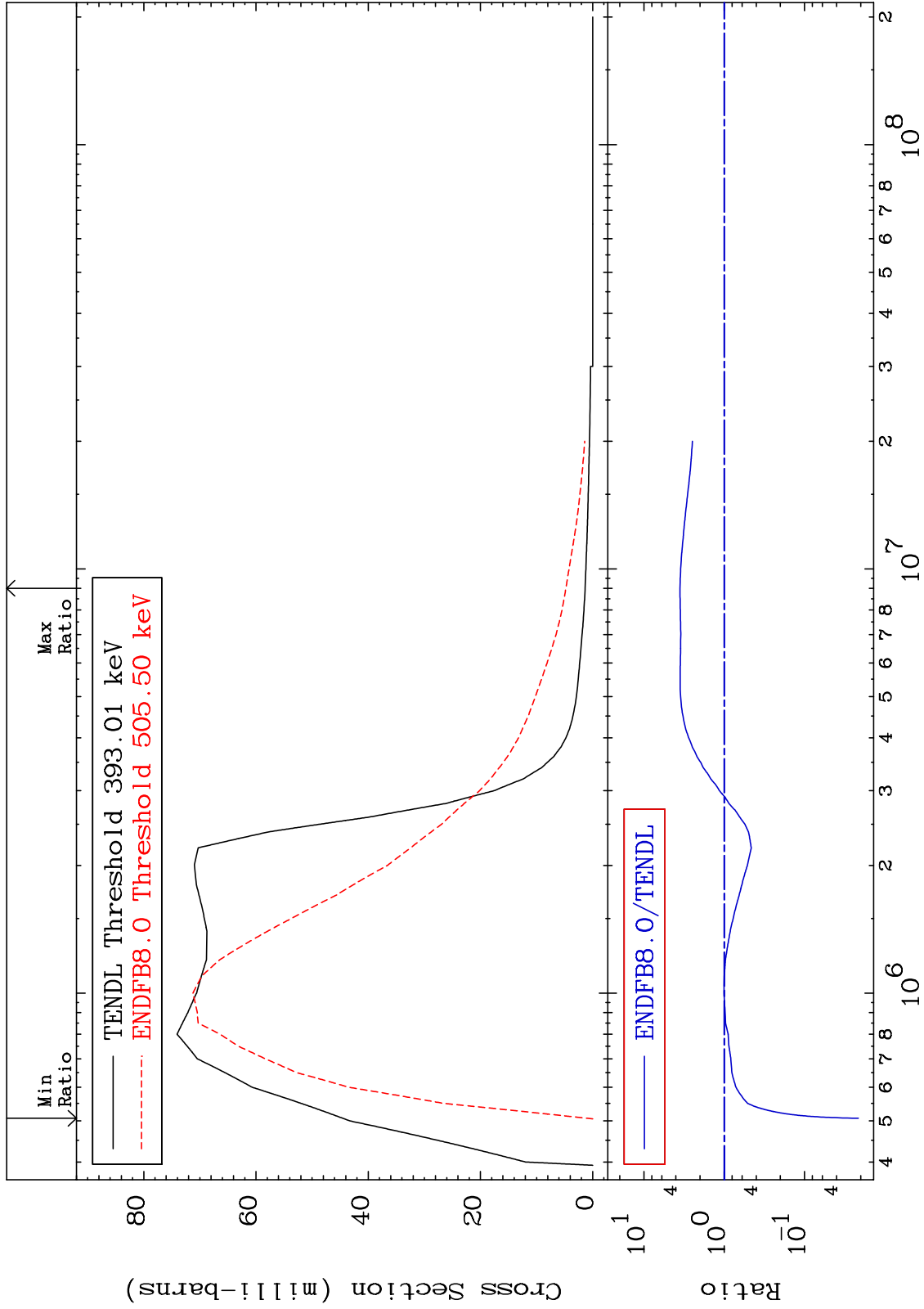
MAT 7725 MT= 57 (n,n') Level Cross Section 77-Ir-191
 -100.0 To 20.65 %



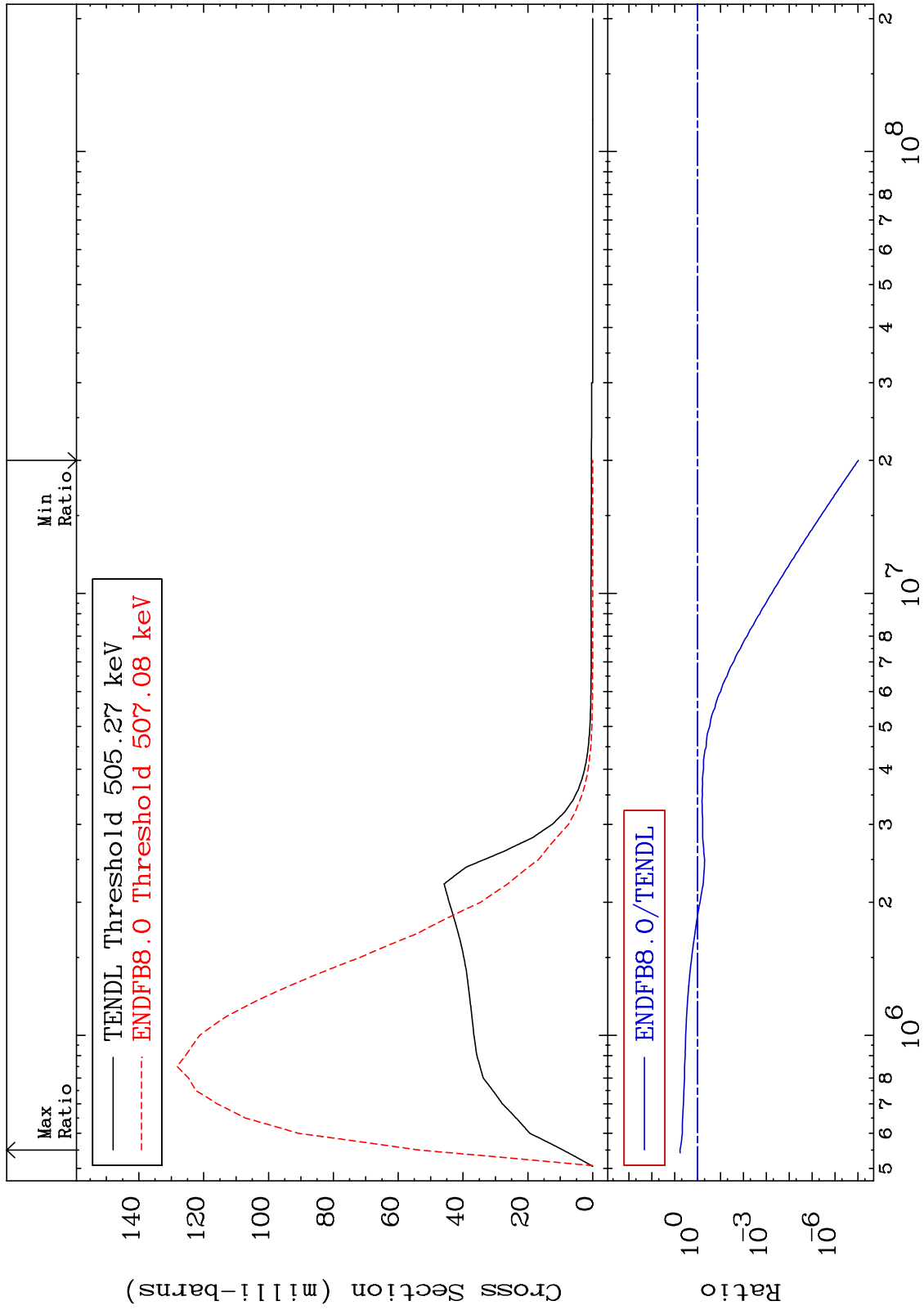
MAT 7725

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

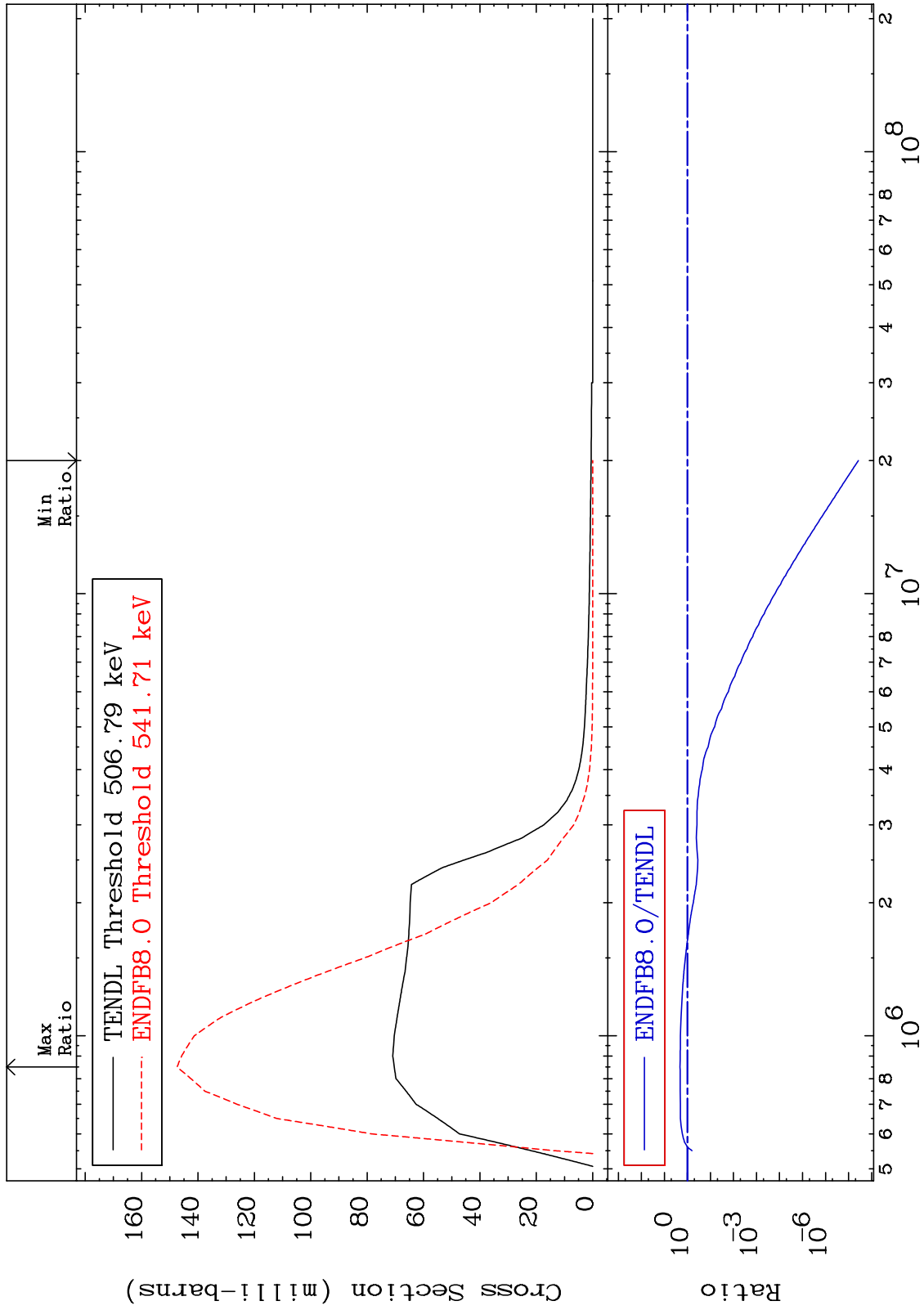
77-Ir-191
-97.87 To 255.6 %



MAT 7725 MT= 59 (n,n') Level Cross Section -100.0 To 485.7 % 77-Ir-191



MAT 7725 MT= 60 (n,n') Level Cross Section -100.0 To 109.6 % 77-Ir-191

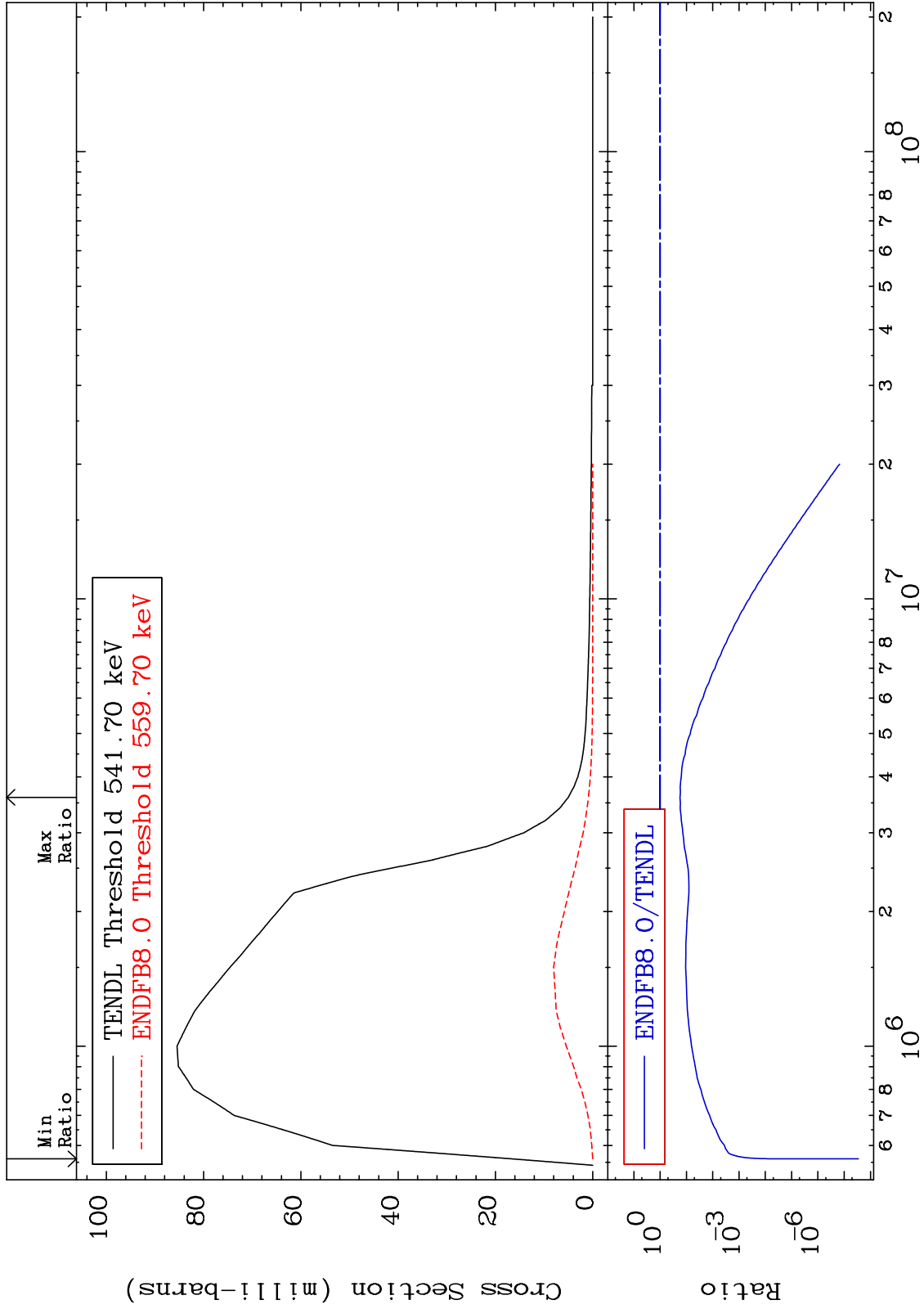


19 77-Ir-191

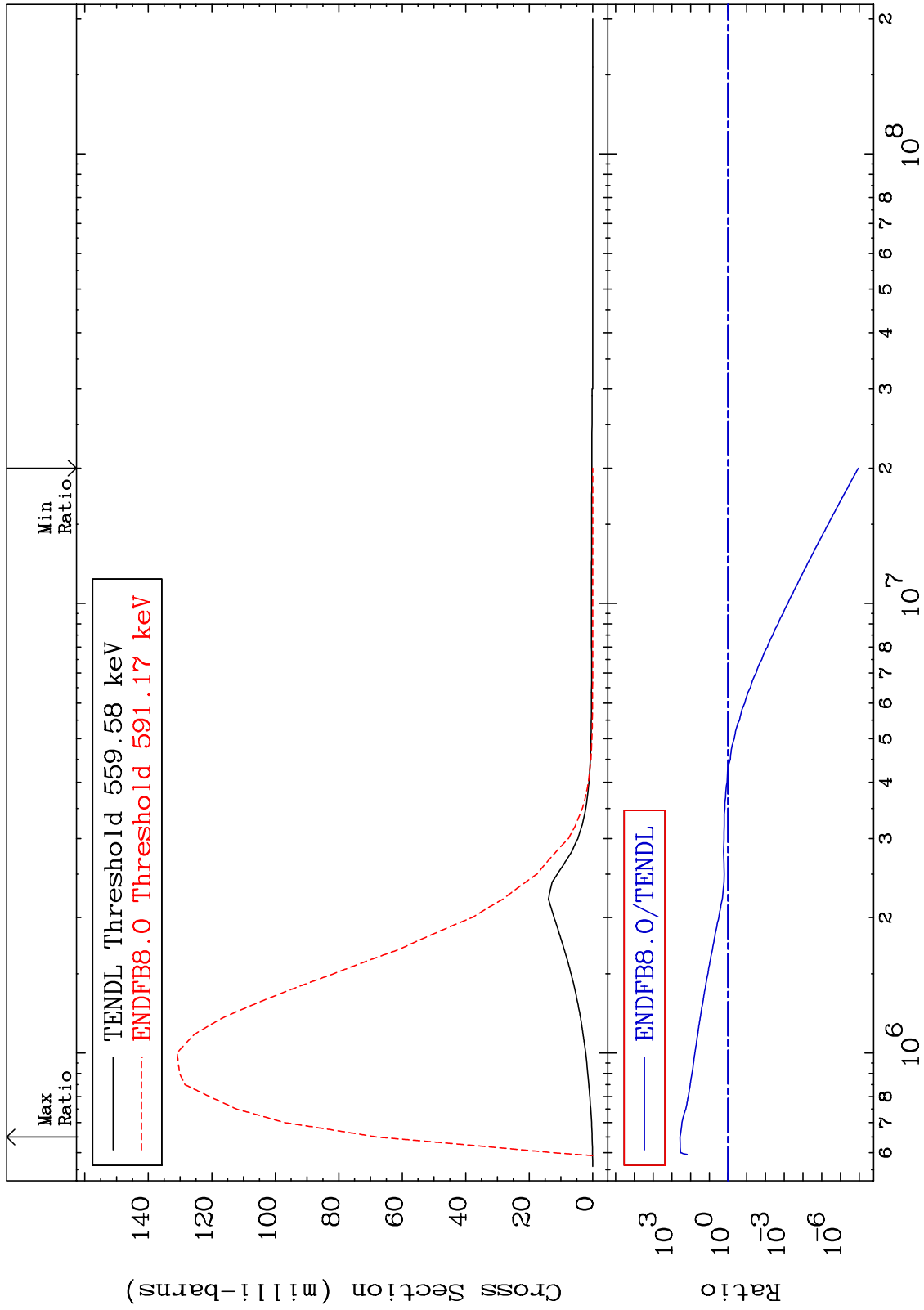
MAT 7725

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

77-Ir-191
-100.0 To -82.45%



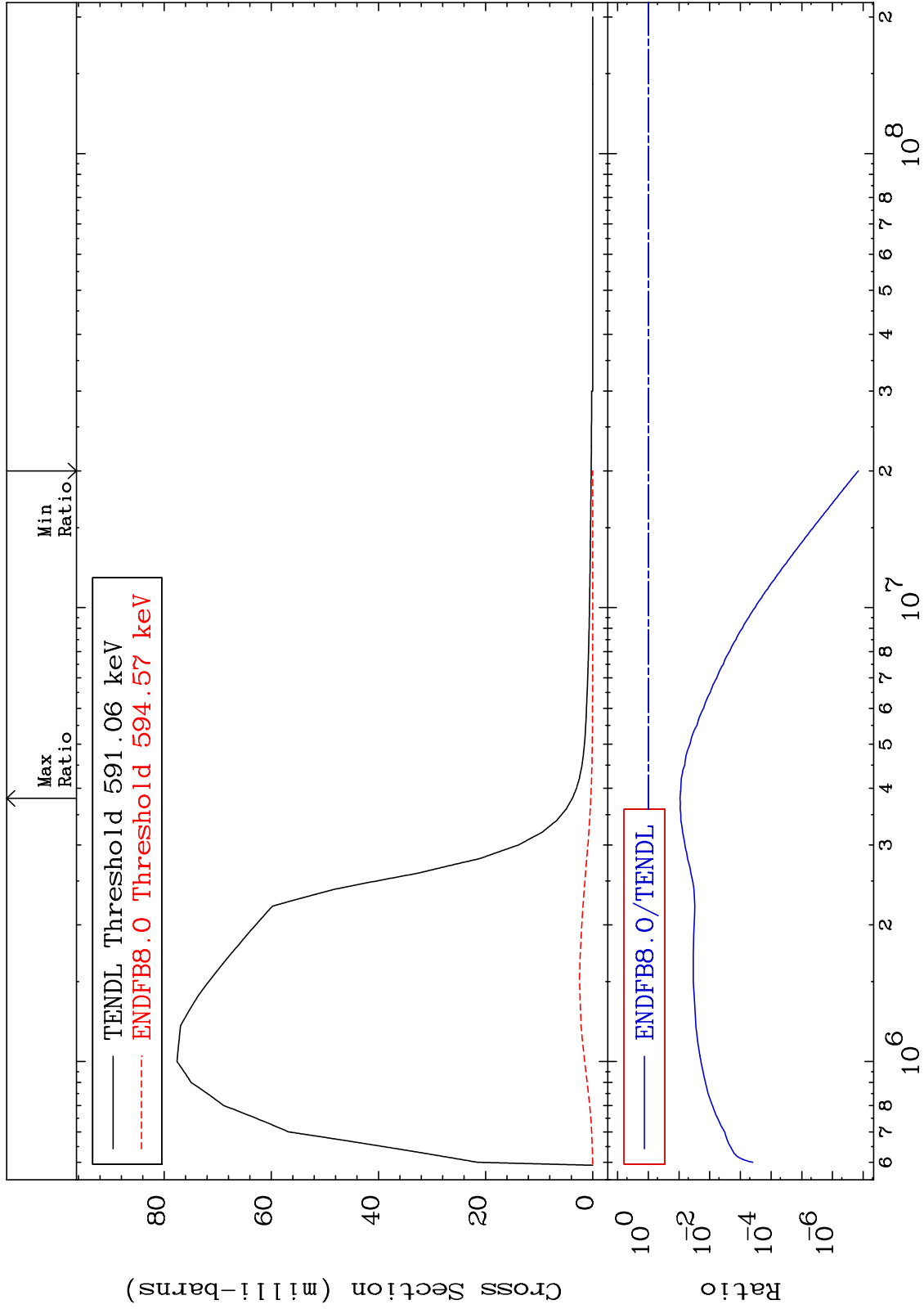
MAT 7725 MT= 62 (n,n') Level Cross Section -100.0 To 9999. % 77-Ir-191



MAT 7725

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

77-Ir-191
-100.0 To -90.72%

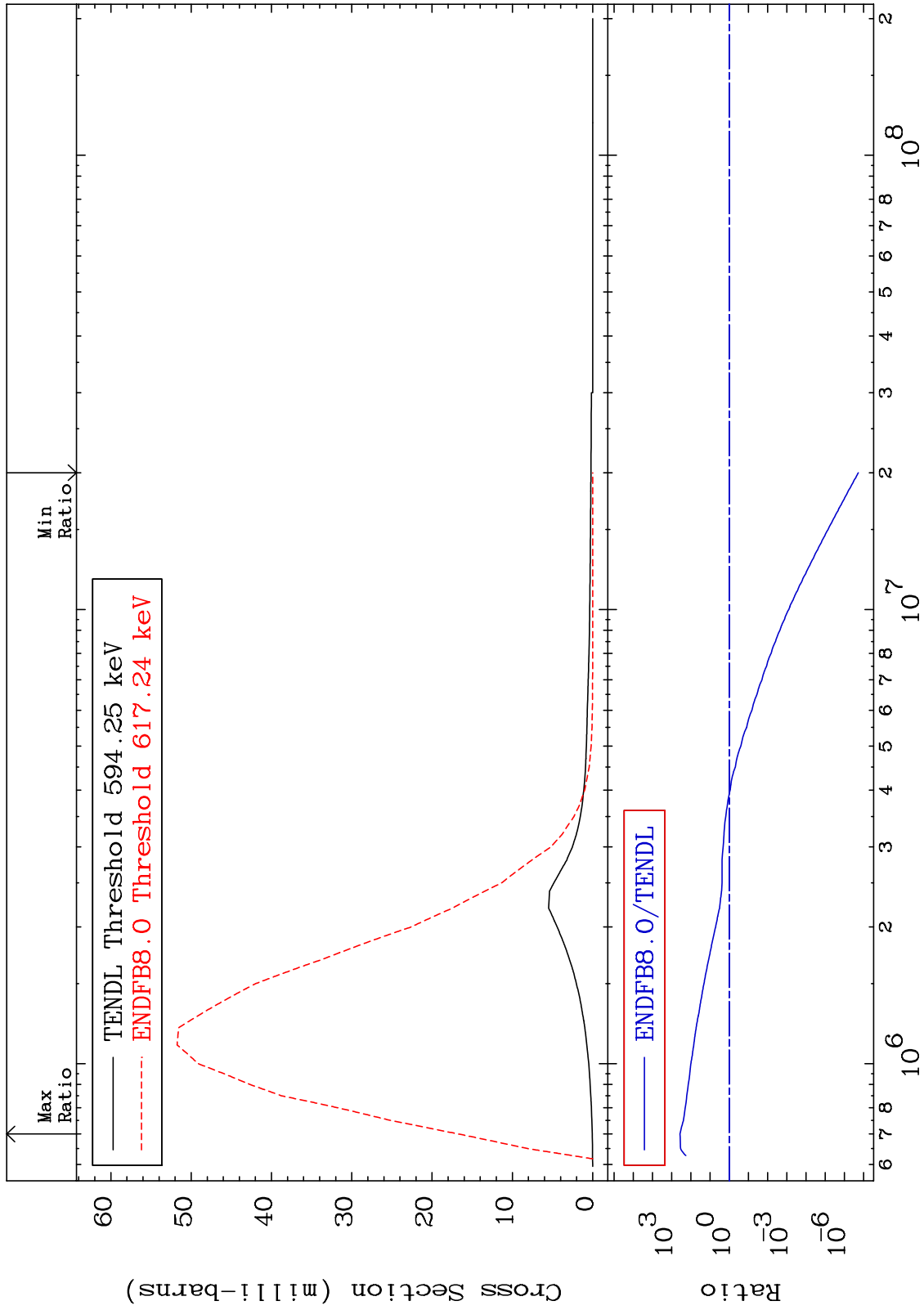


Incident Energy (eV)

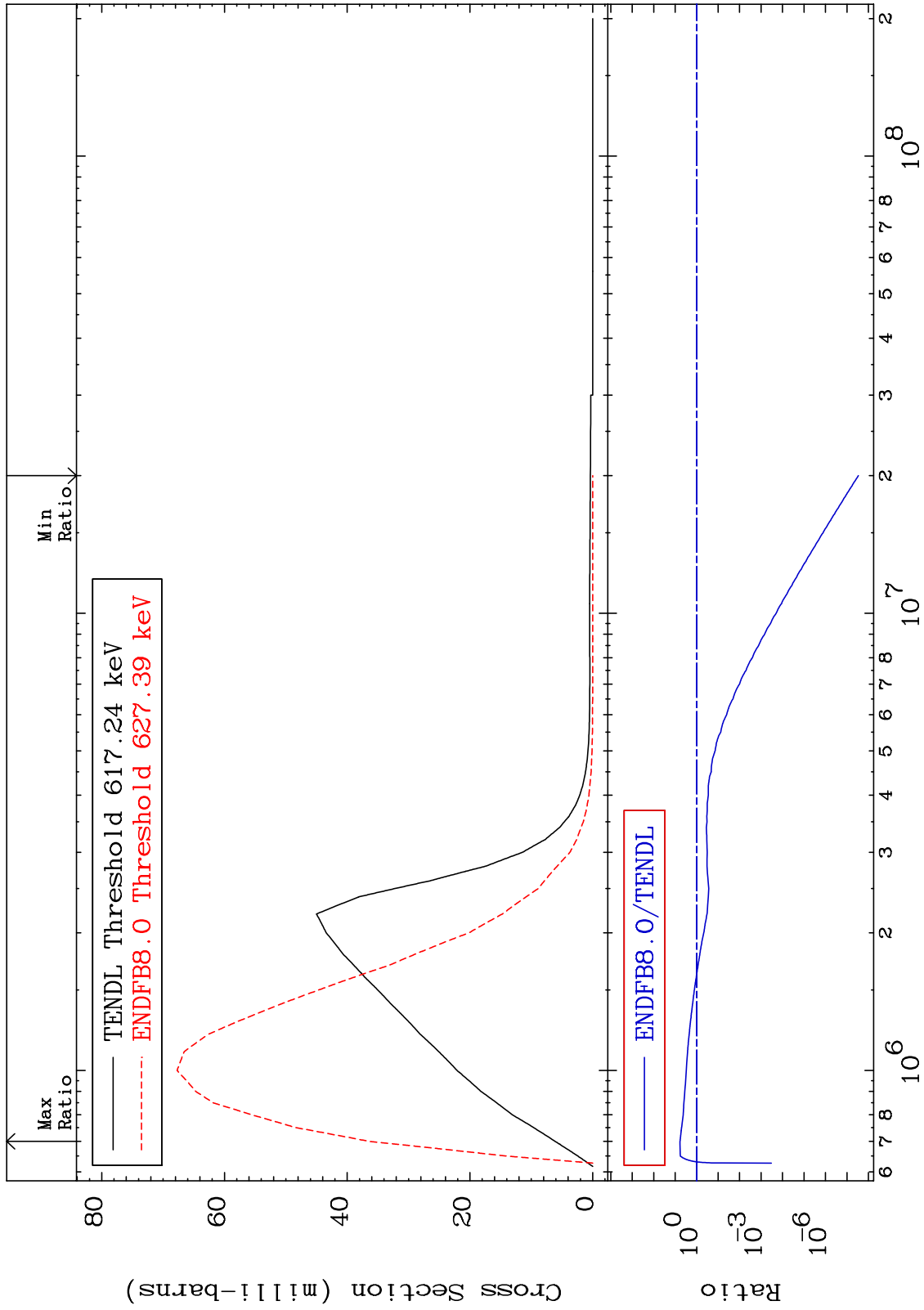
77-Ir-191

22

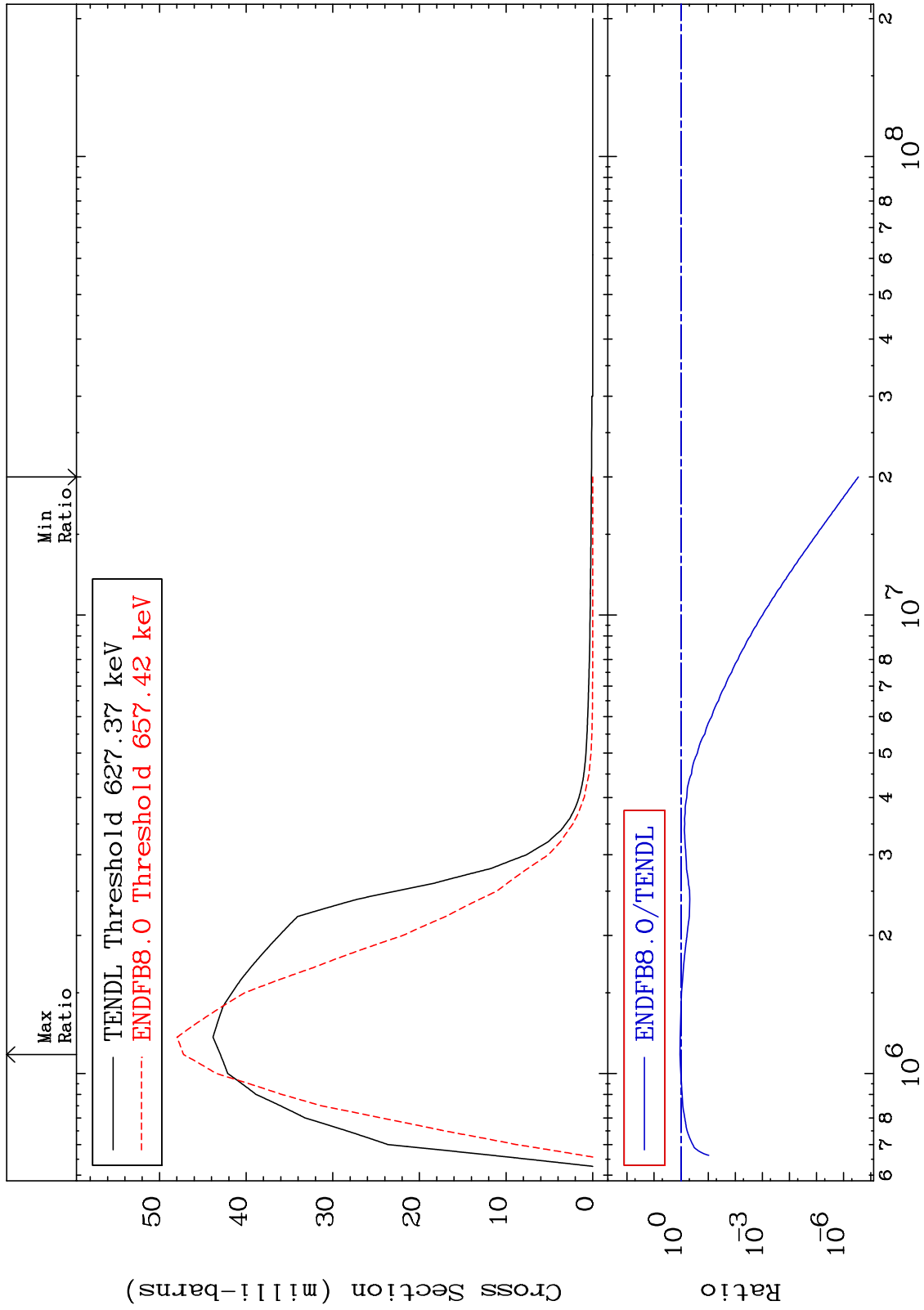
MAT 7725 MT= 64 (n,n') Level -100.0 To 9999. % 77-Ir-191
 Cross Section



MAT 7725 MT= 65 (n,n') Level Cross Section -100.0 To 494.3 % 77-Ir-191



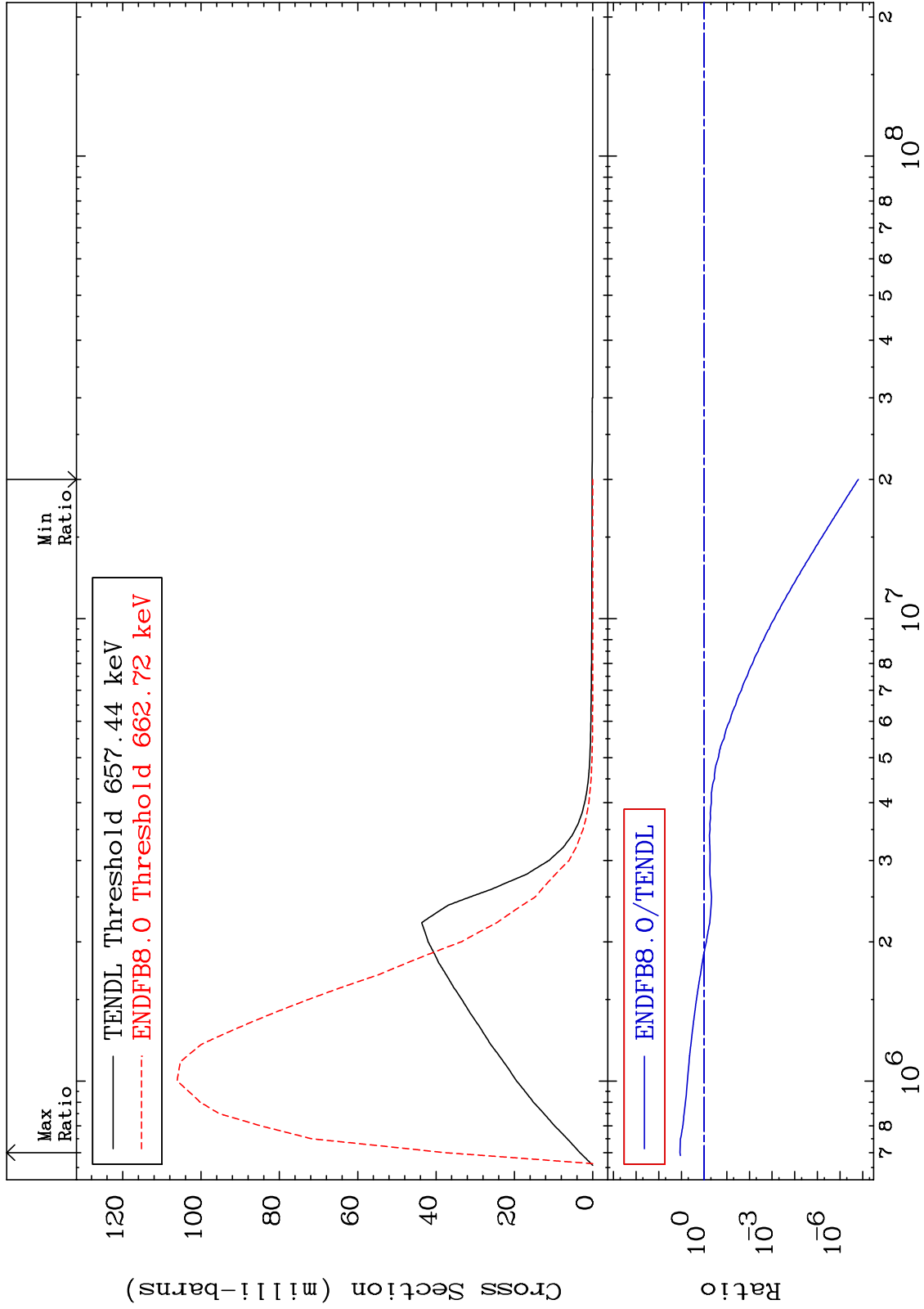
MAT 7725 MT= 66 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 9.888 %



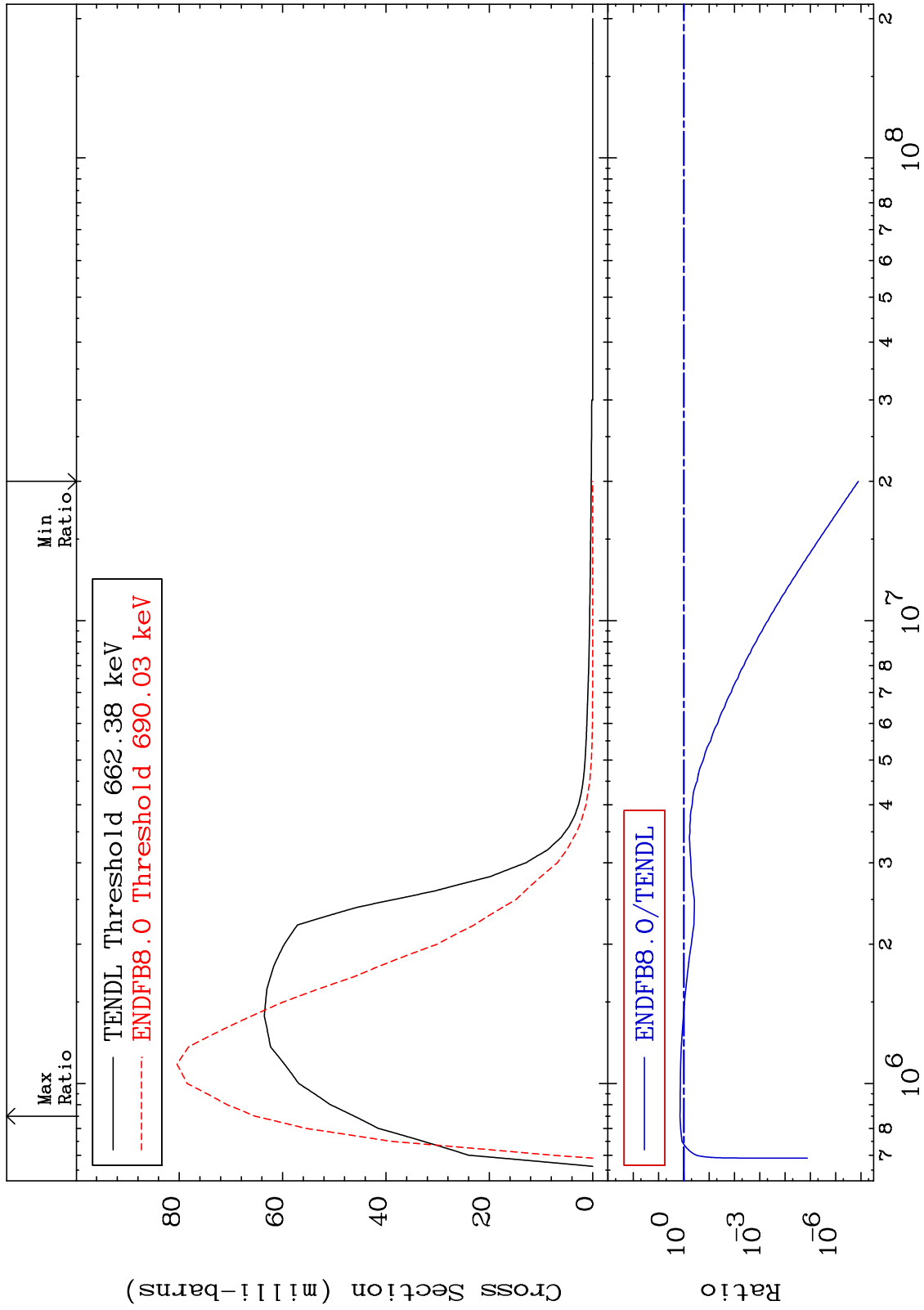
MAT 7725

MT= 67 (n,n') Level
Cross Section

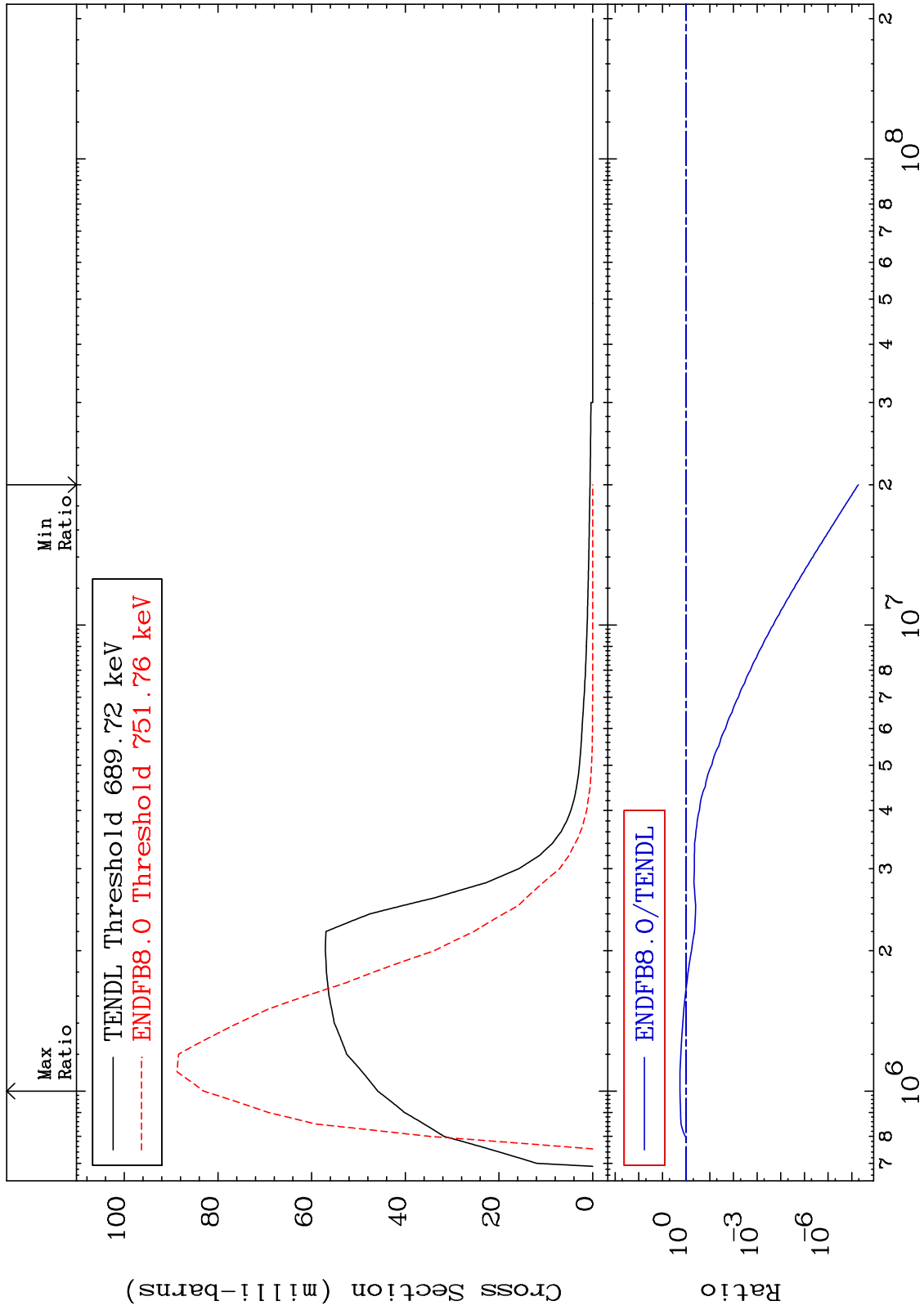
77-Ir-191
-100.0 To 1056. %



MAT 7725 MT= 68 (n,n') Level Cross Section -100.0 To 41.63 % 77-Ir-191



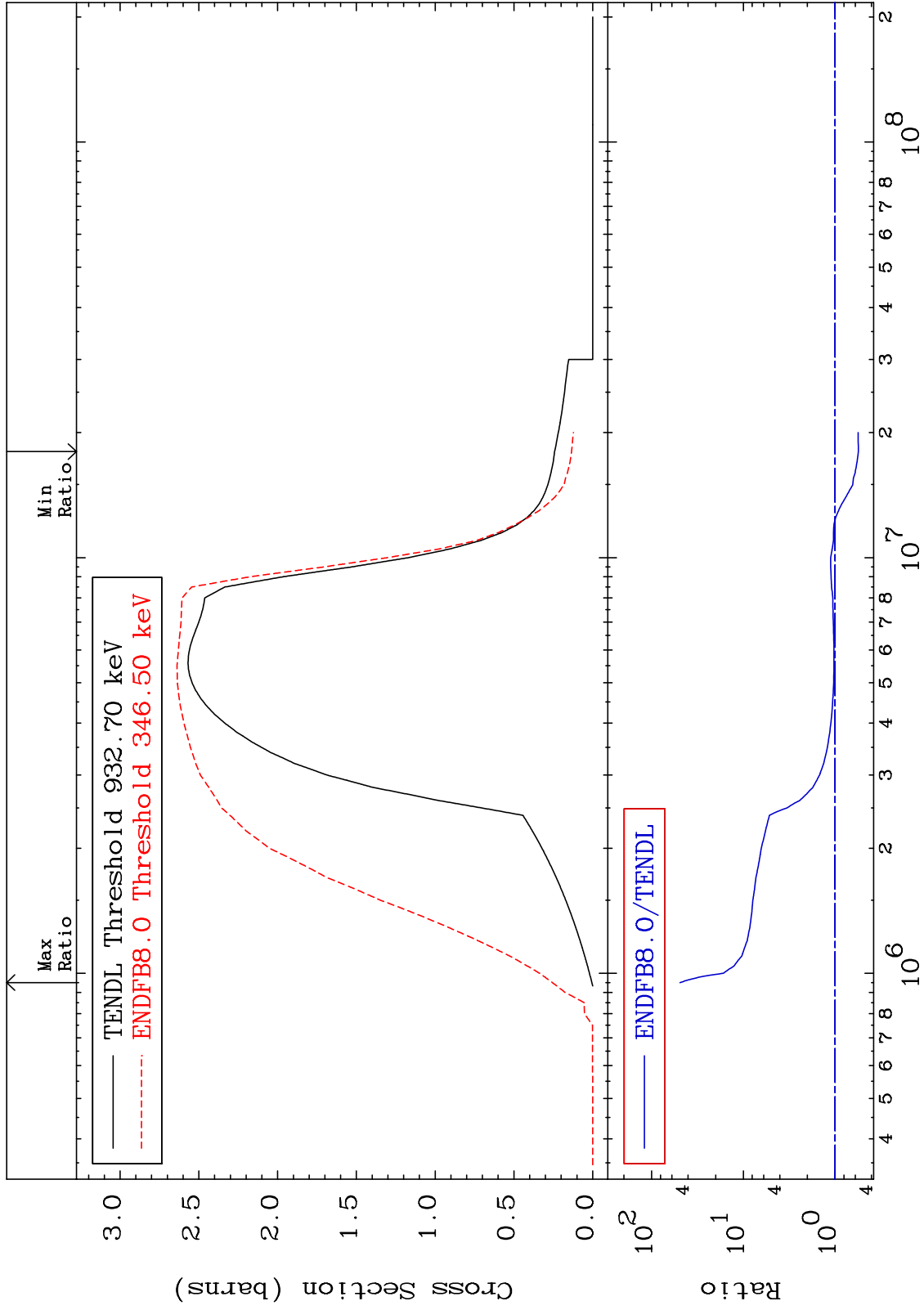
MAT 7725 MT= 69 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 80.95 %



MAT 7725

(n, n') Continuum
Cross Section

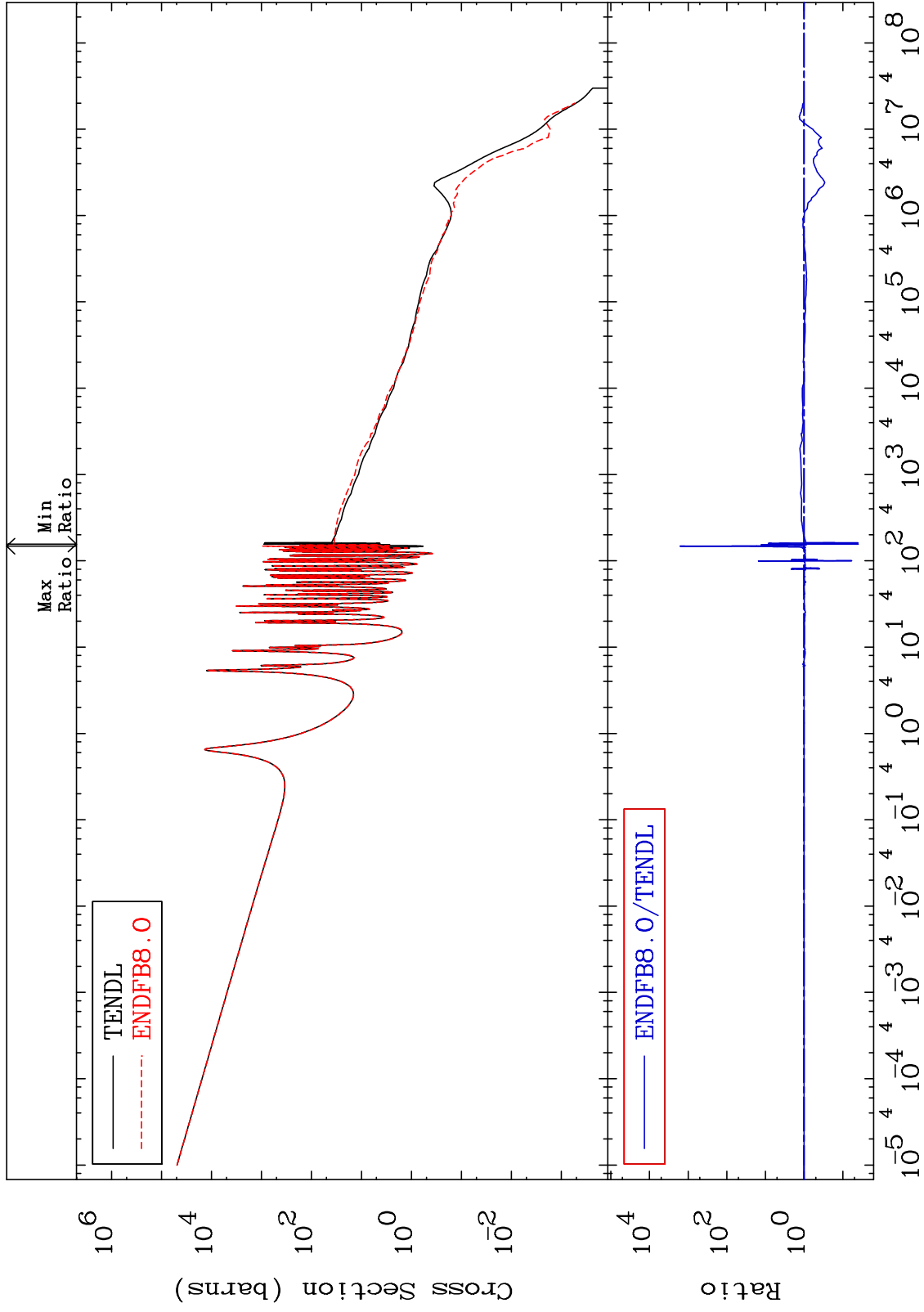
⁷⁷Ir-191
-44.38 To 4800. %



MAT 7725

(n, γ)
Cross Section

77-Ir-191
-96.05 To 9999. %



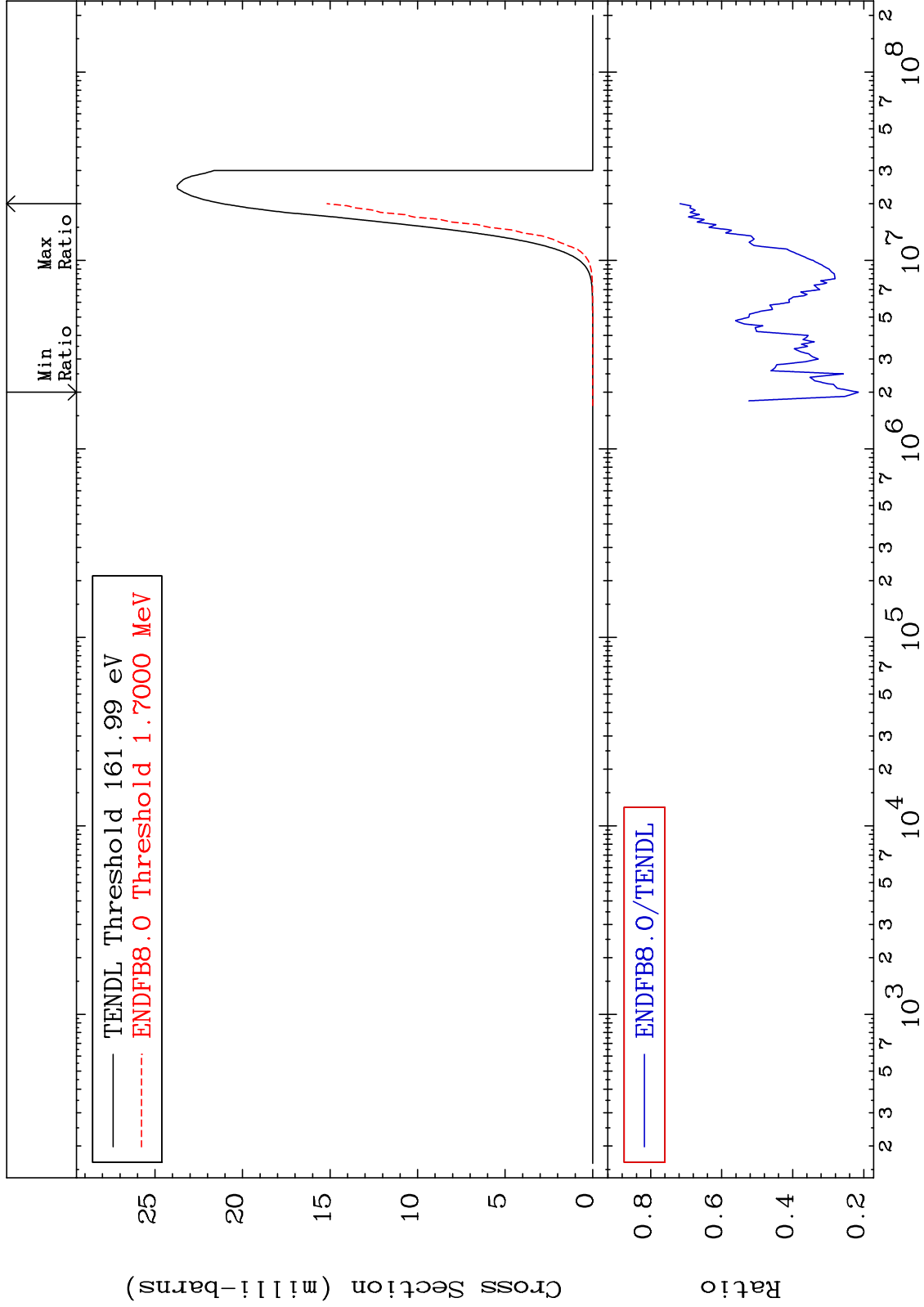
MAT 7725

(n, p)

77-Ir-191

Cross Section

-78.49 To -28.27%



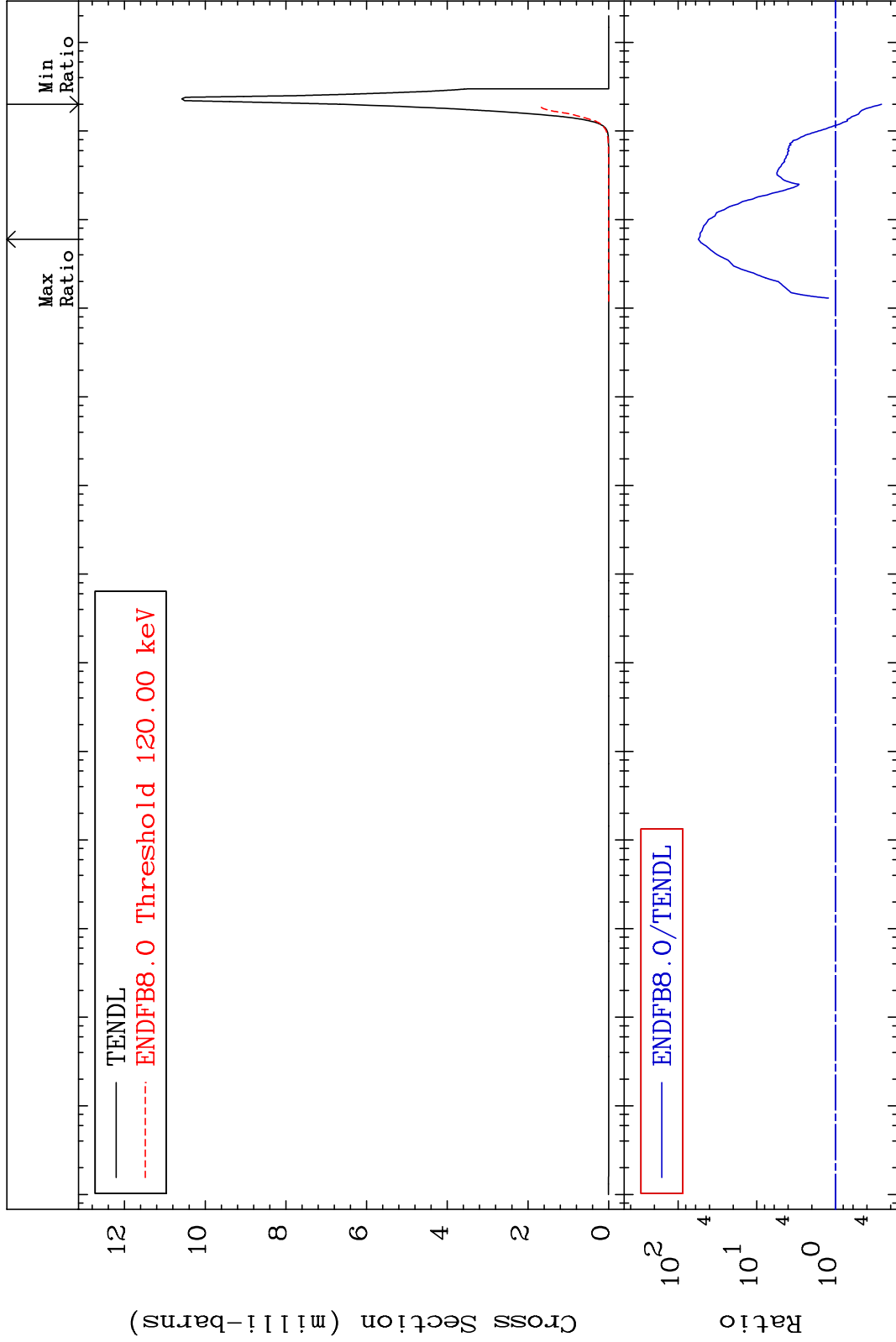
MAT 7725

(n, α)

77-Ir-191

Cross Section

-73.91 To 5431. %



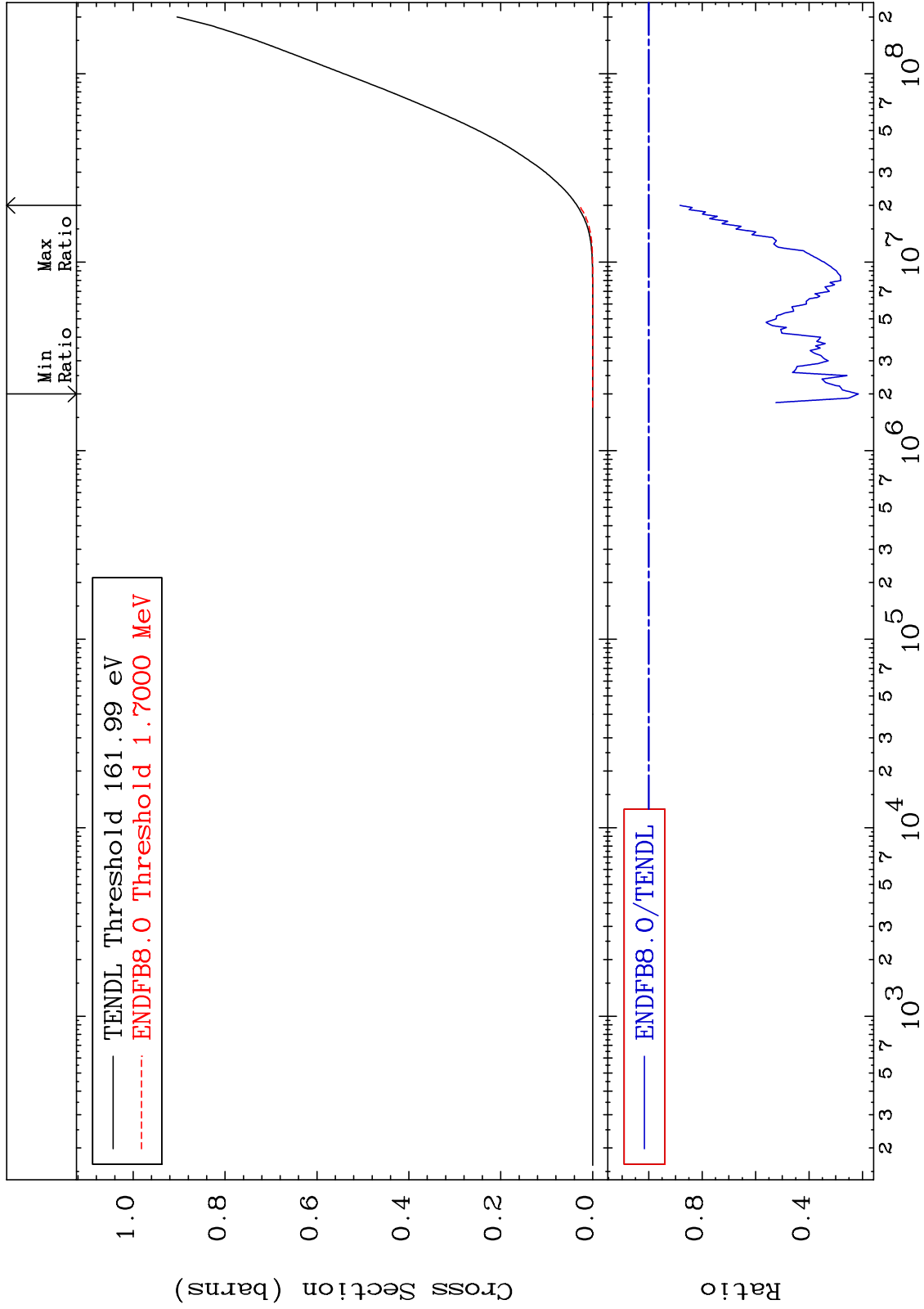
Incident Energy (eV)

77-Ir-191

MAT 7725

Hydrogen Production
Cross Section

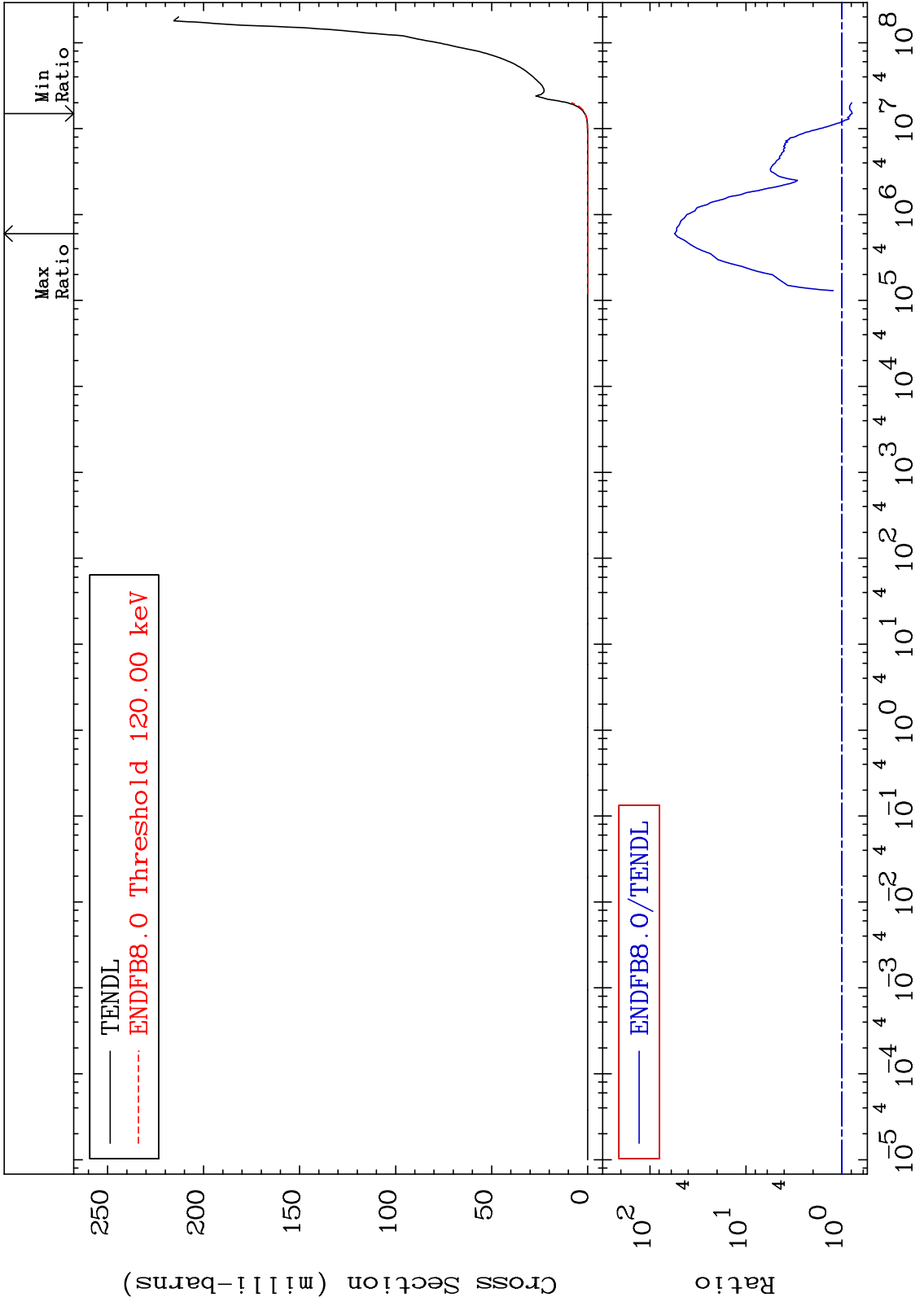
⁷⁷Ir-191
-78.49 To -11.70%



MAT 7725

He-4 Production
Cross Section

77-Ir-191
-21.80 To 5431. %



34

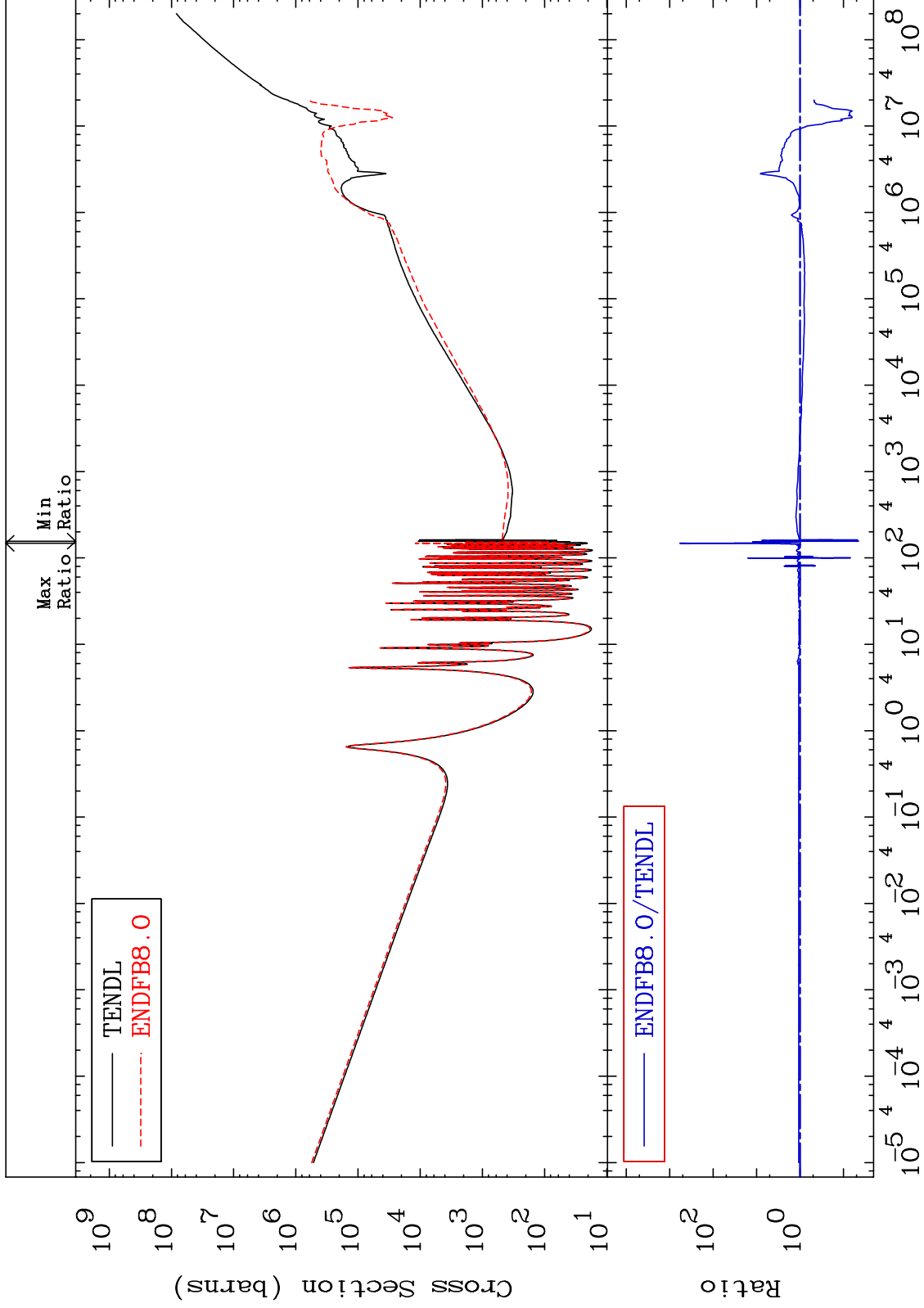
Incident Energy (eV)

77-Ir-191

MAT 7725

Kerma total (eV-barns)
Cross Section

77-Ir-191
-95.48 To 9999. %



35

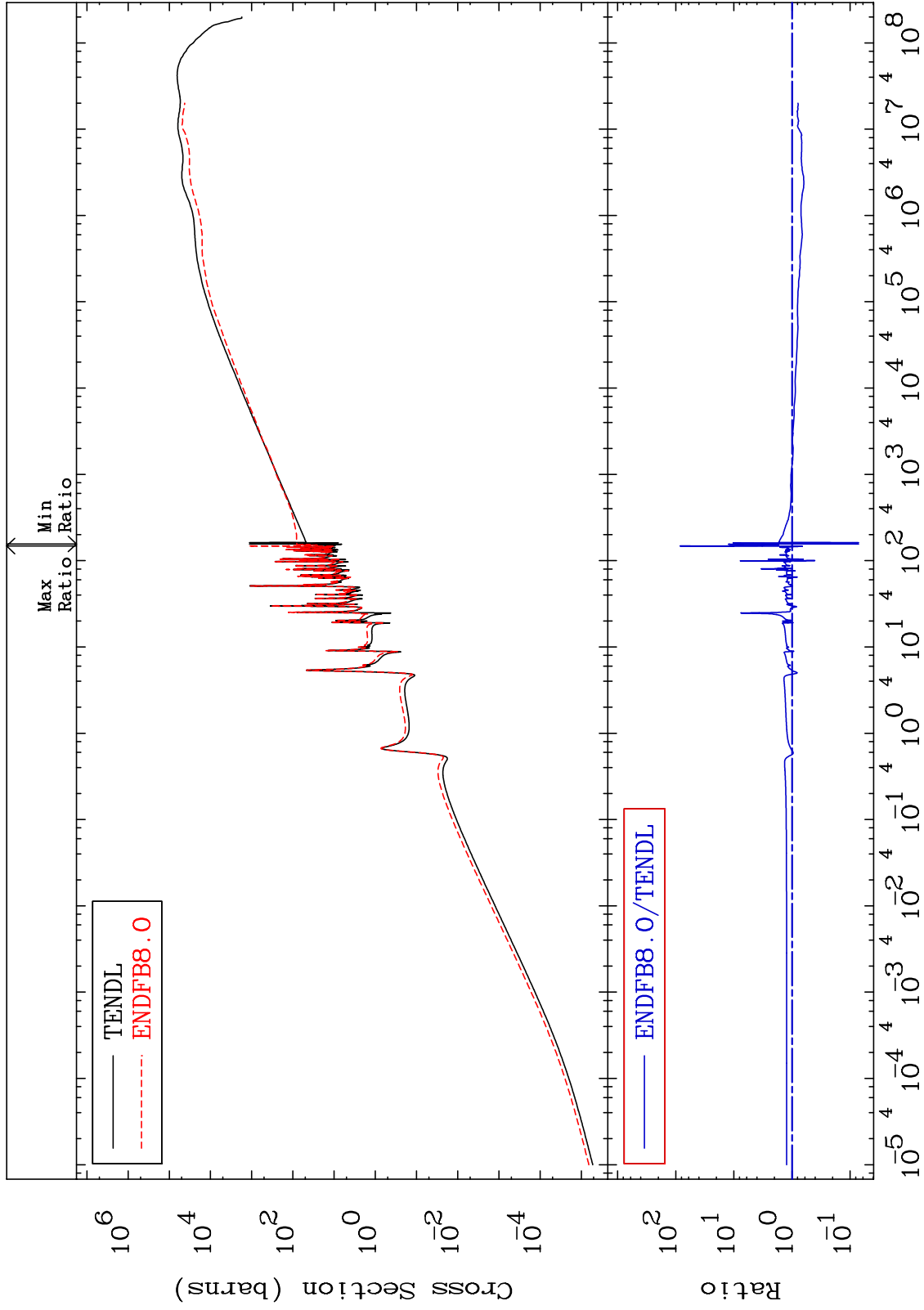
Incident Energy (eV)

77-Ir-191

MAT 7725

Kerma elastic
Cross Section

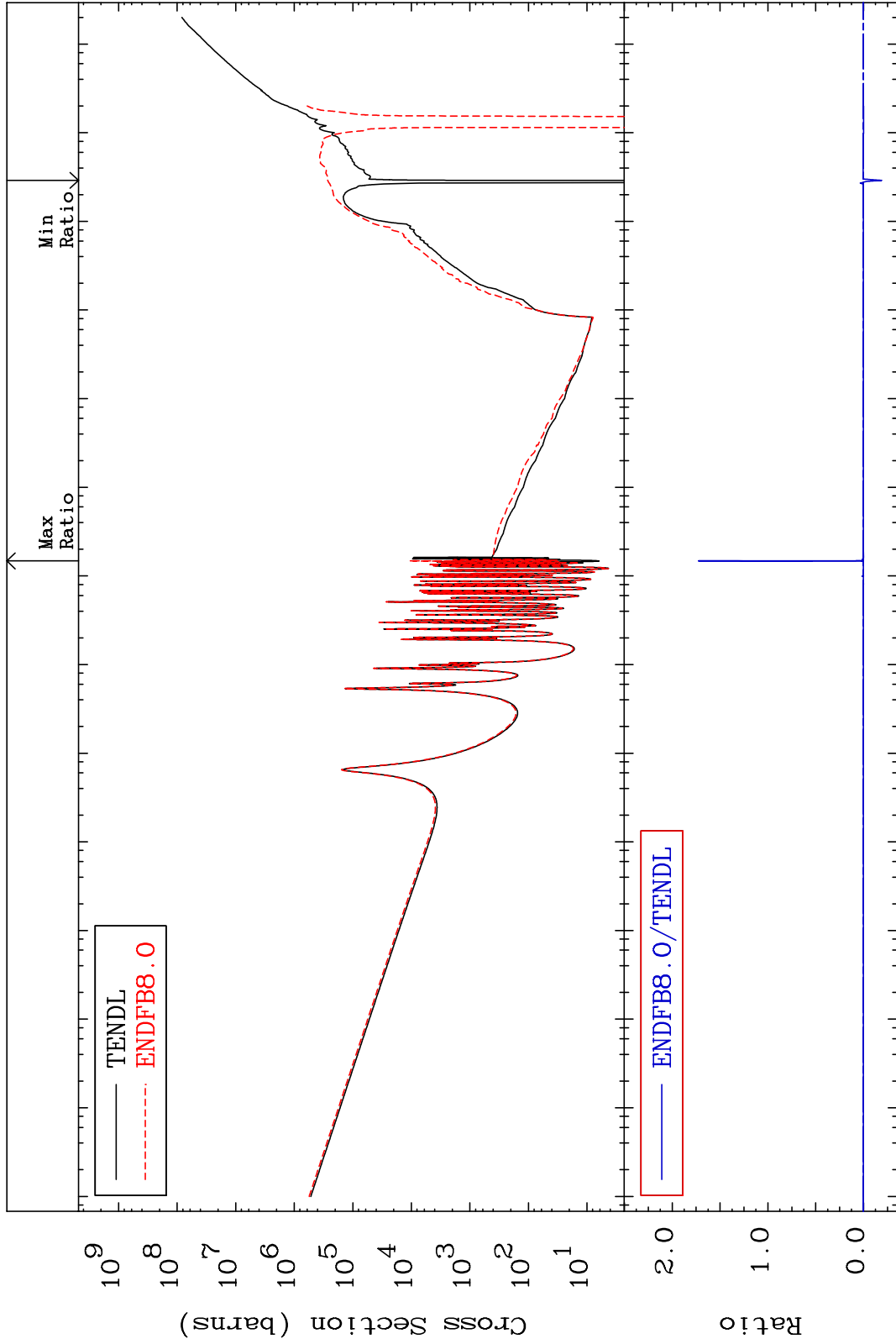
⁷⁷Ir-191
-92.81 To 8350. %



MAT 7725

Kerma non-elastic (all but mt2)
Cross Section

77-Ir-191
-9999. To 9999. %



37

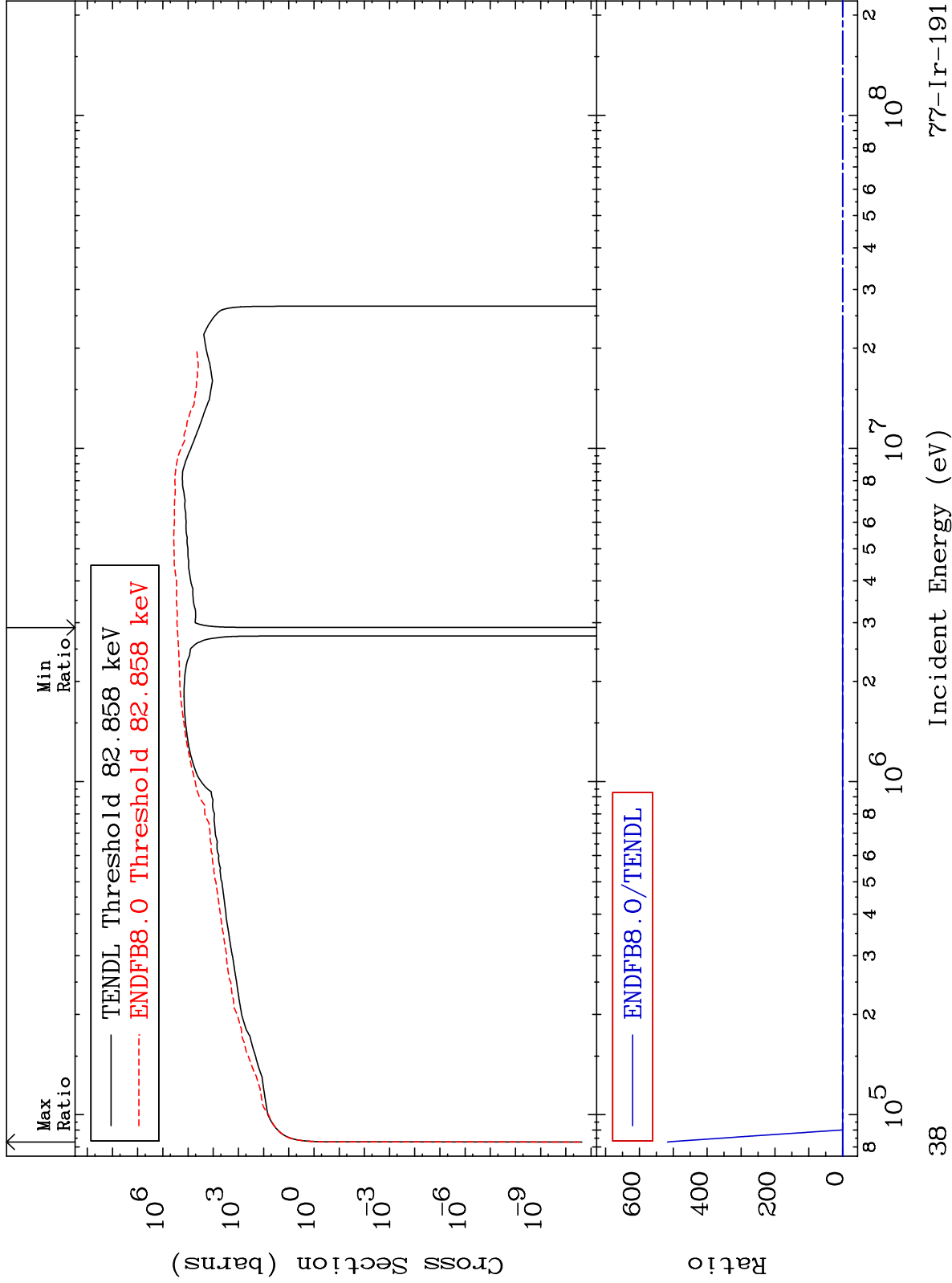
Incident Energy (eV)

77-Ir-191

MAT 7725

Kerma inelastic (mt51-91)
Cross Section

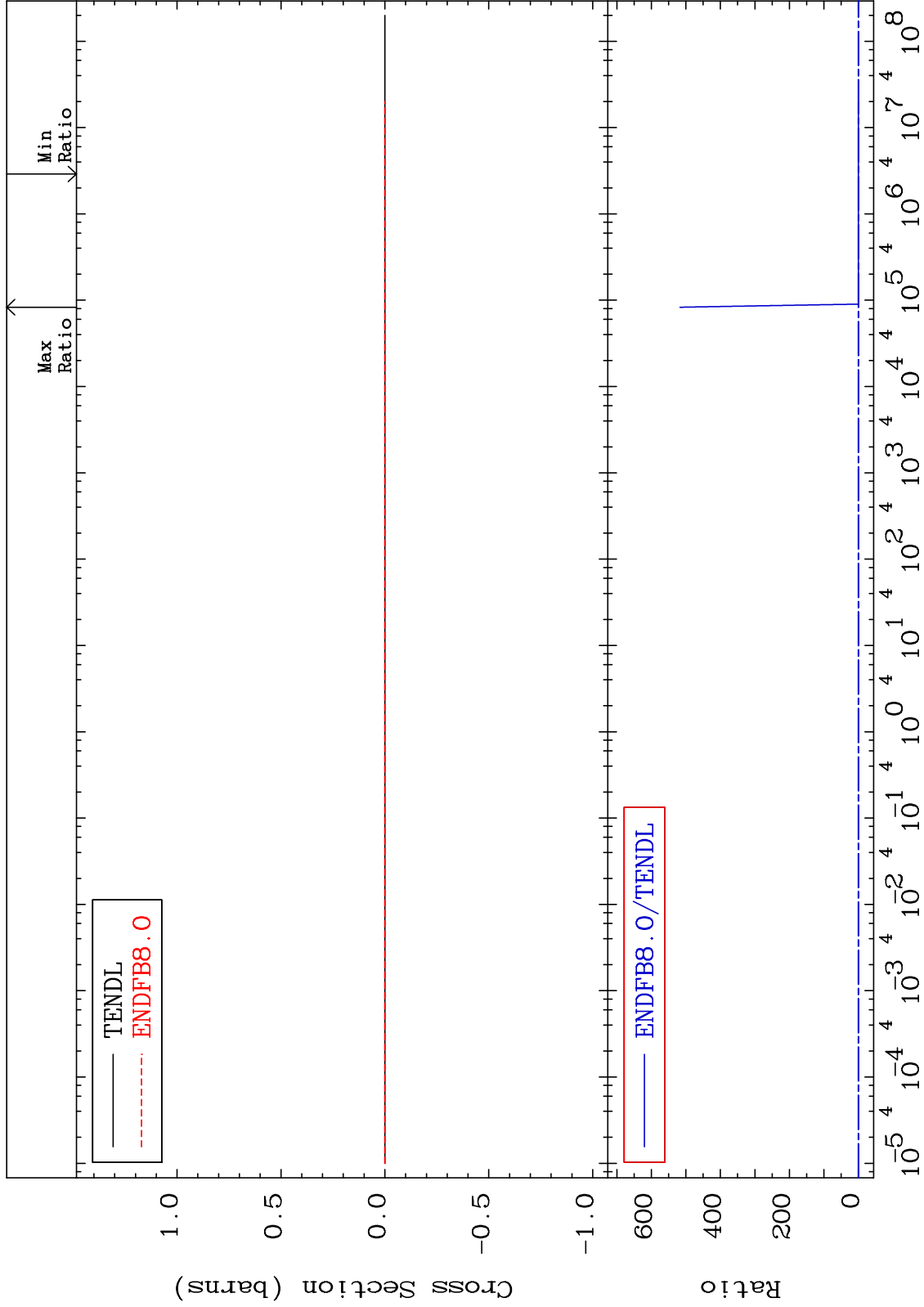
77-Ir-191
-9999. To 9999. %



MAT 7725

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

77-Ir-191
-9999. To 9999. %



39

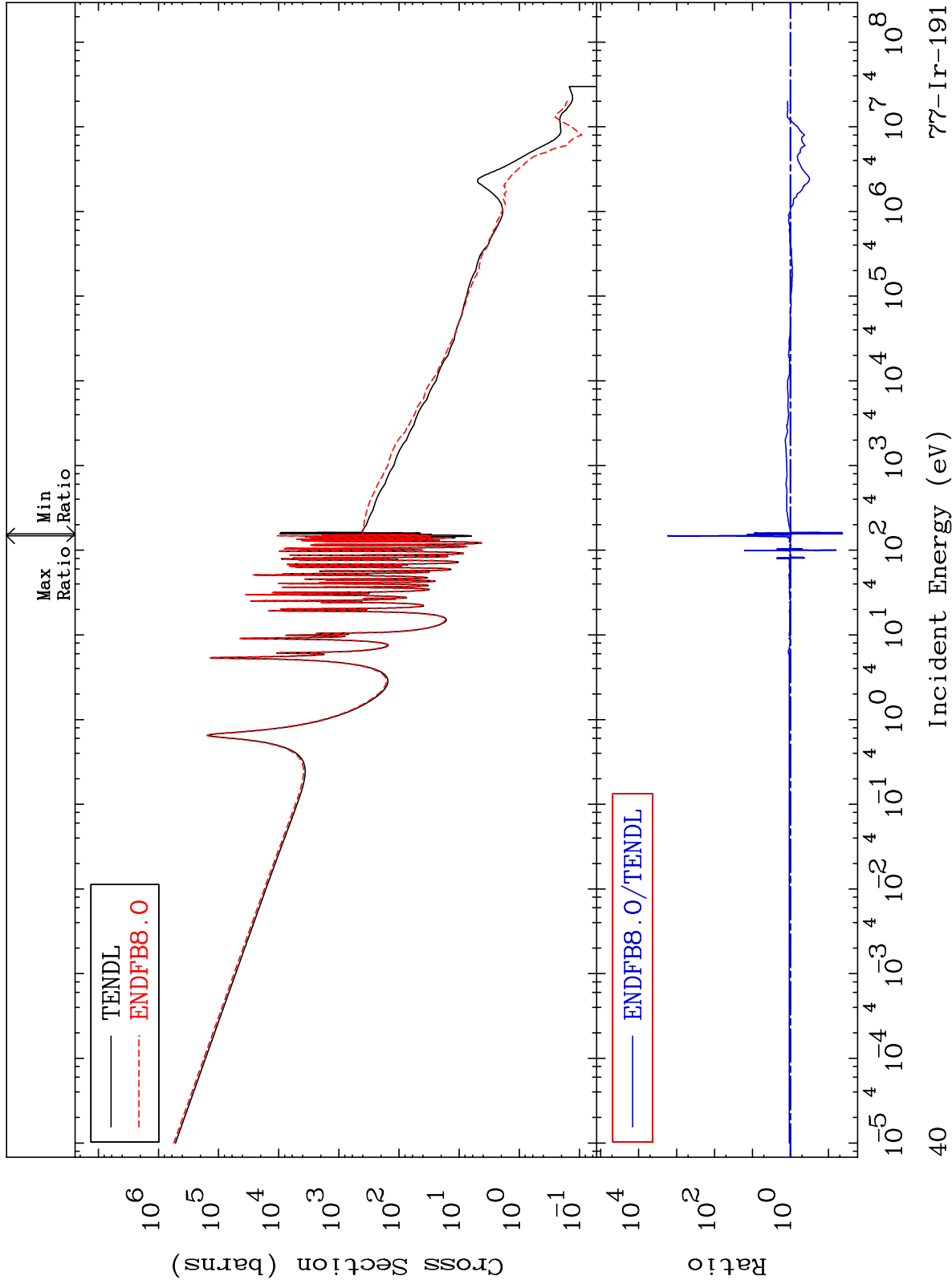
Incident Energy (eV)

77-Ir-191

MAT 7725

Kerma capture (mt102)
Cross Section

77-Ir-191
-95.79 To 9999. %



40

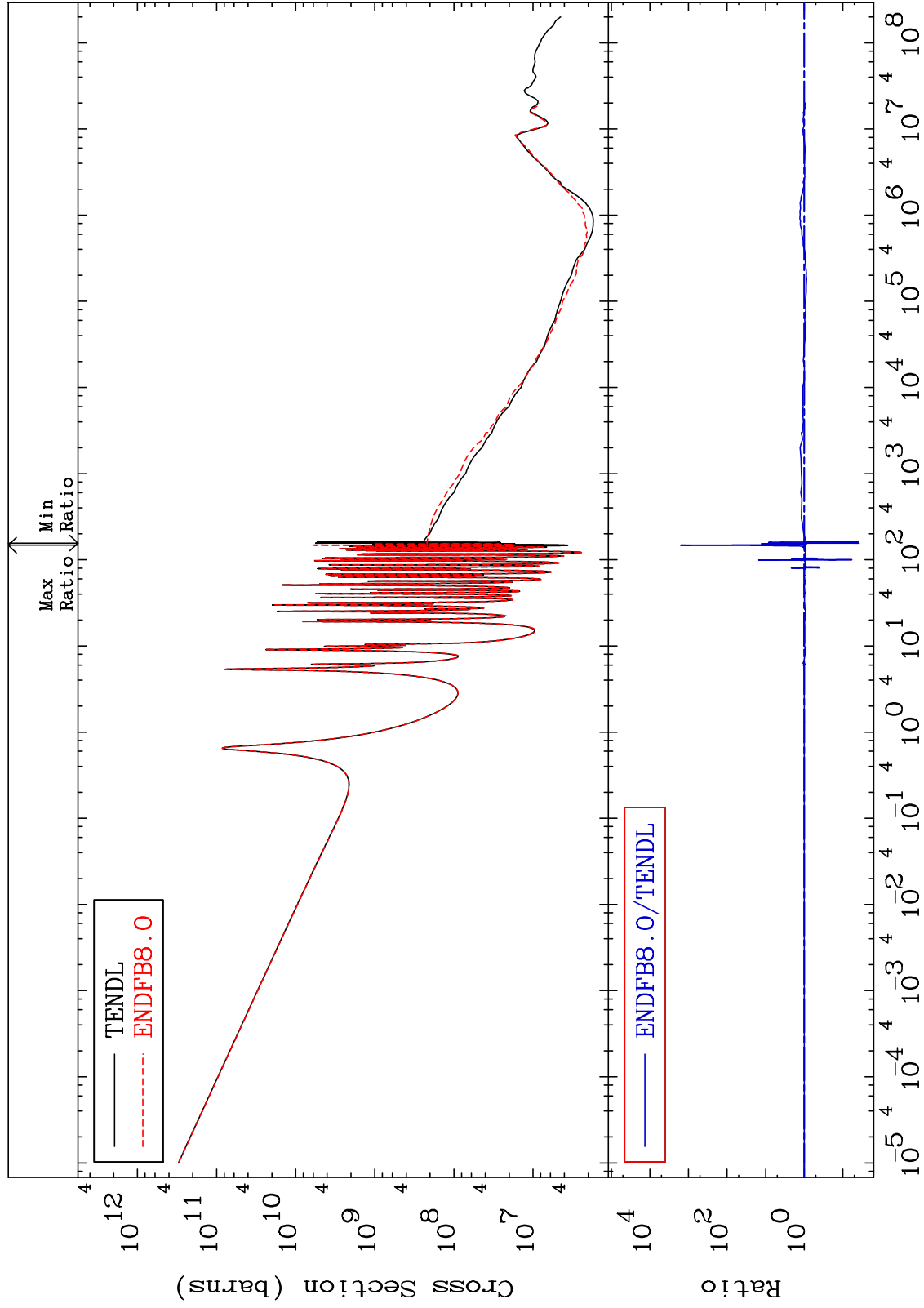
Incident Energy (eV)

77-Ir-191

MAT 7725

Total photon (eV-barns)
Cross Section

77-Ir-191
-96.08 To 9999. %



41

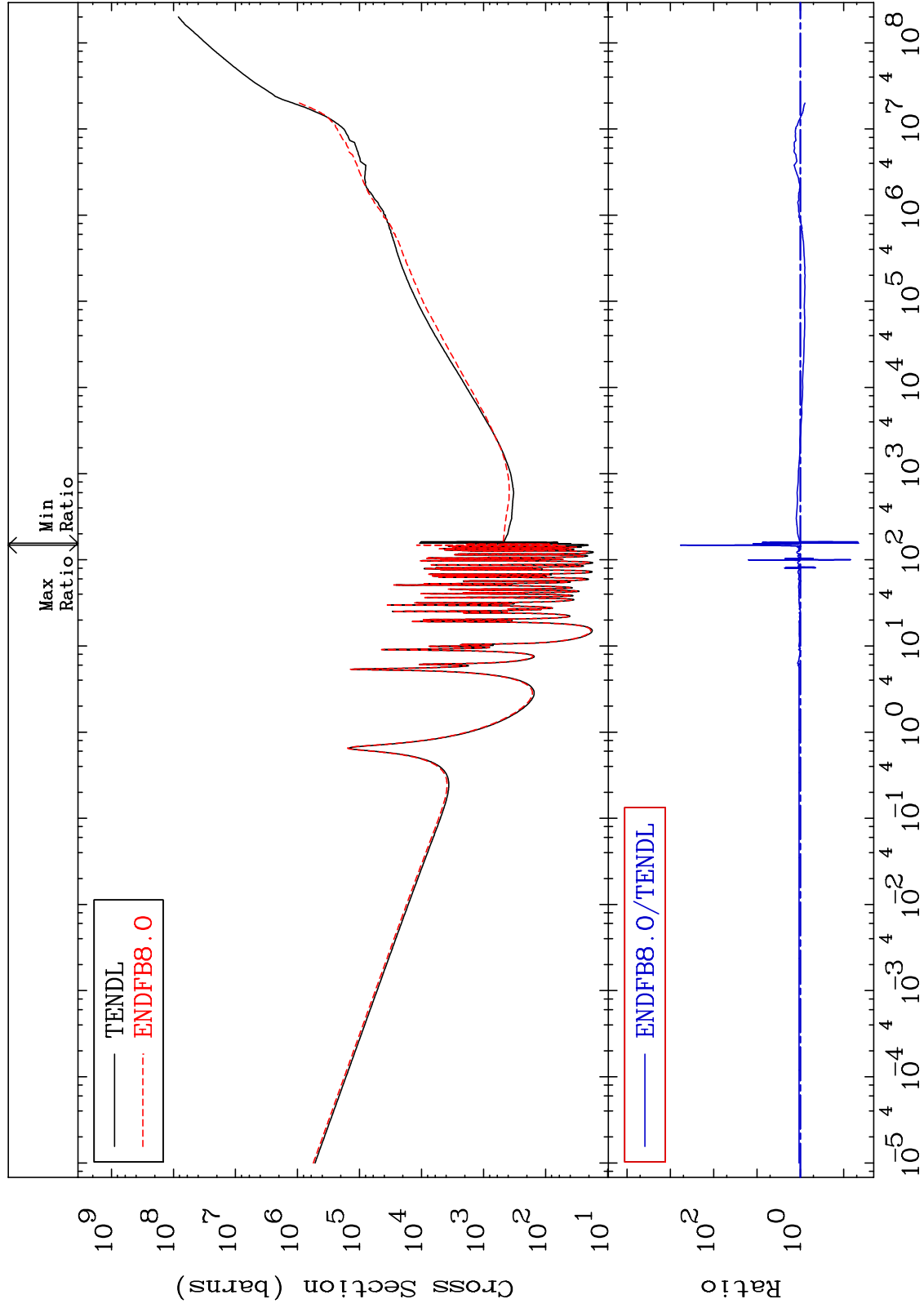
Incident Energy (eV)

77-Ir-191

MAT 7725

Total kinematic kerma (high limit)
Cross Section

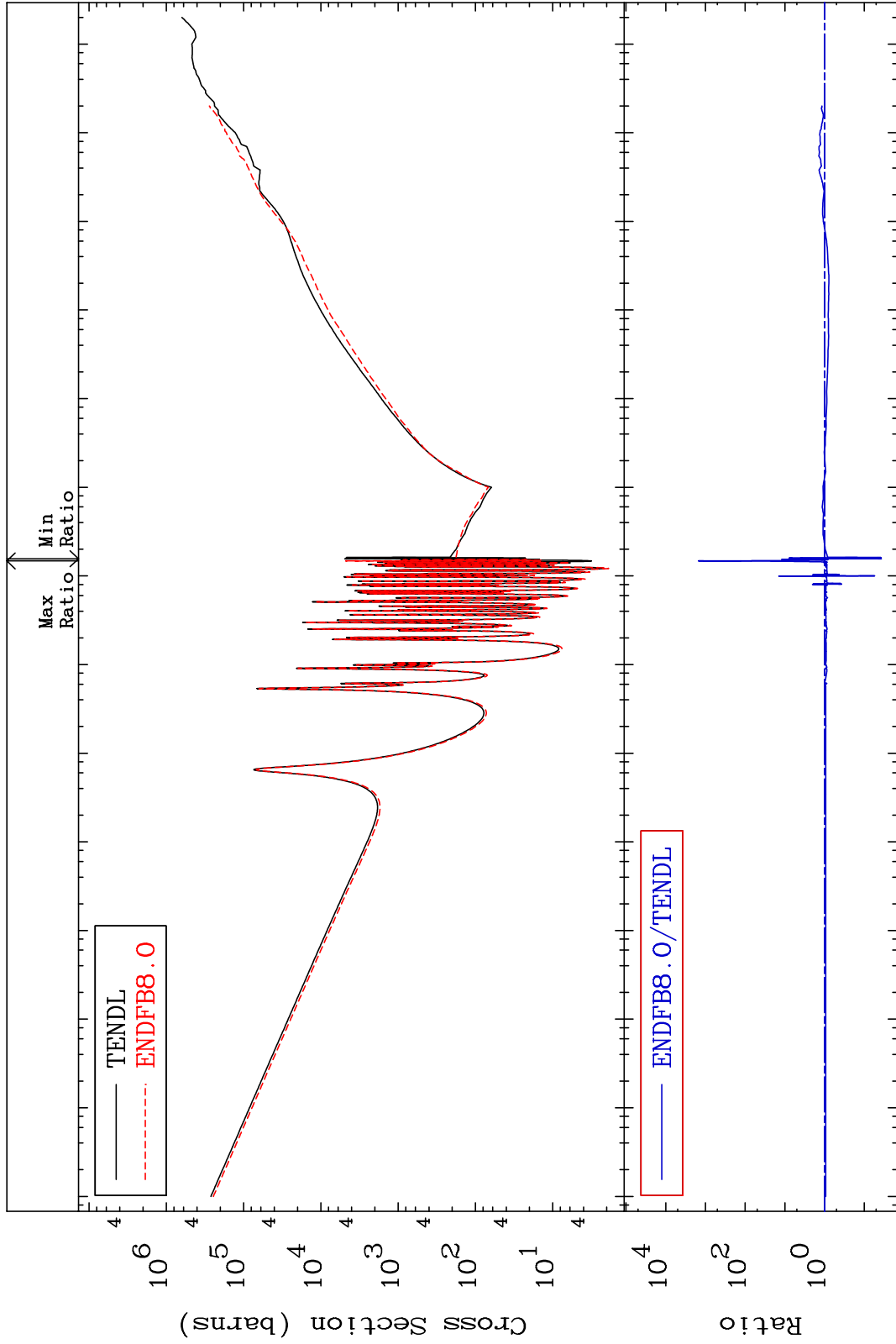
77-Ir-191
-95.48 To 9999. %



MAT 7725

Dpa total (eV-barns)
Cross Section

77-Ir-191
-96.33 To 9999. %



77-Ir-191

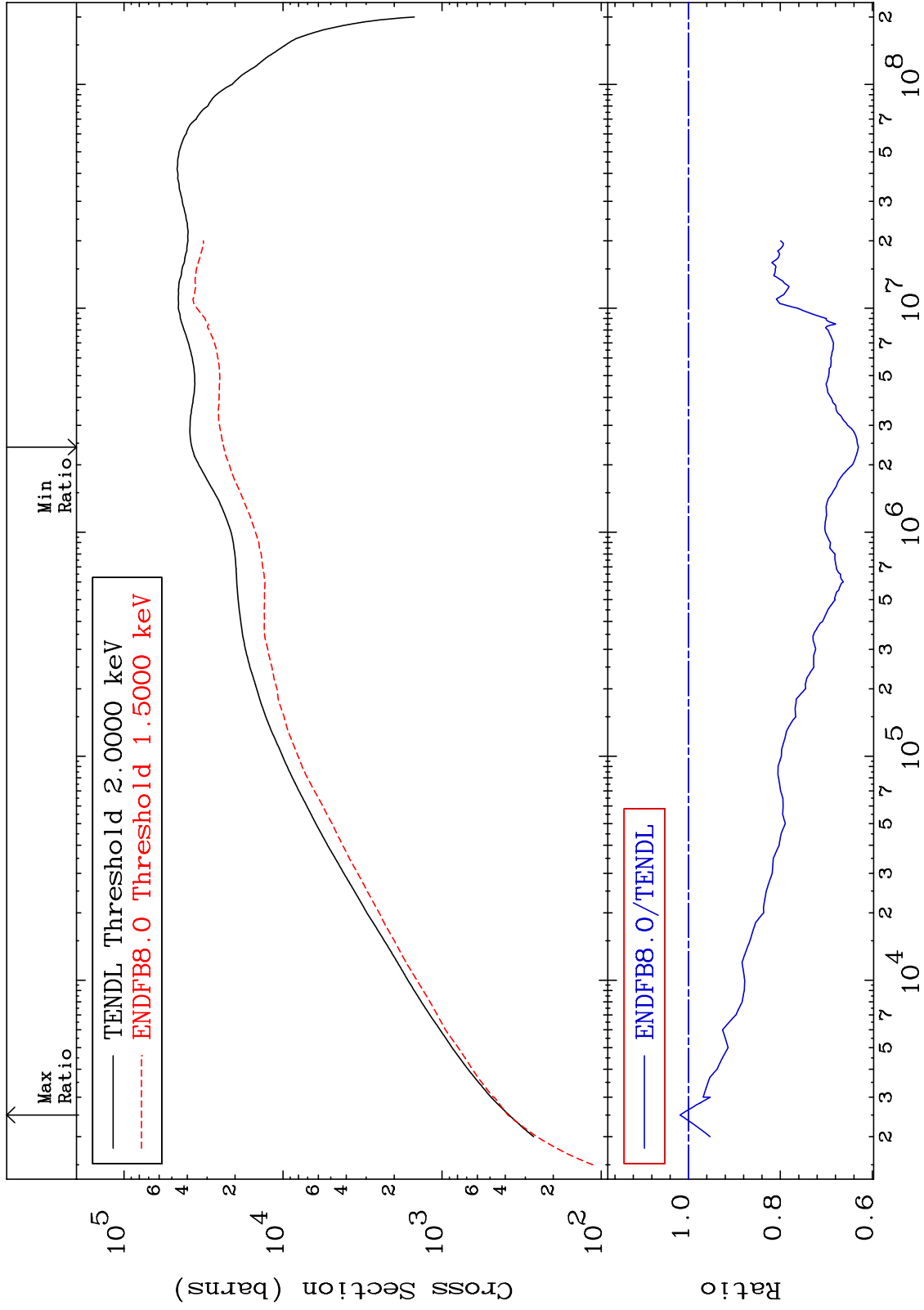
Incident Energy (eV)

43

MAT 7725

Dpa elastic (mt2)
Cross Section

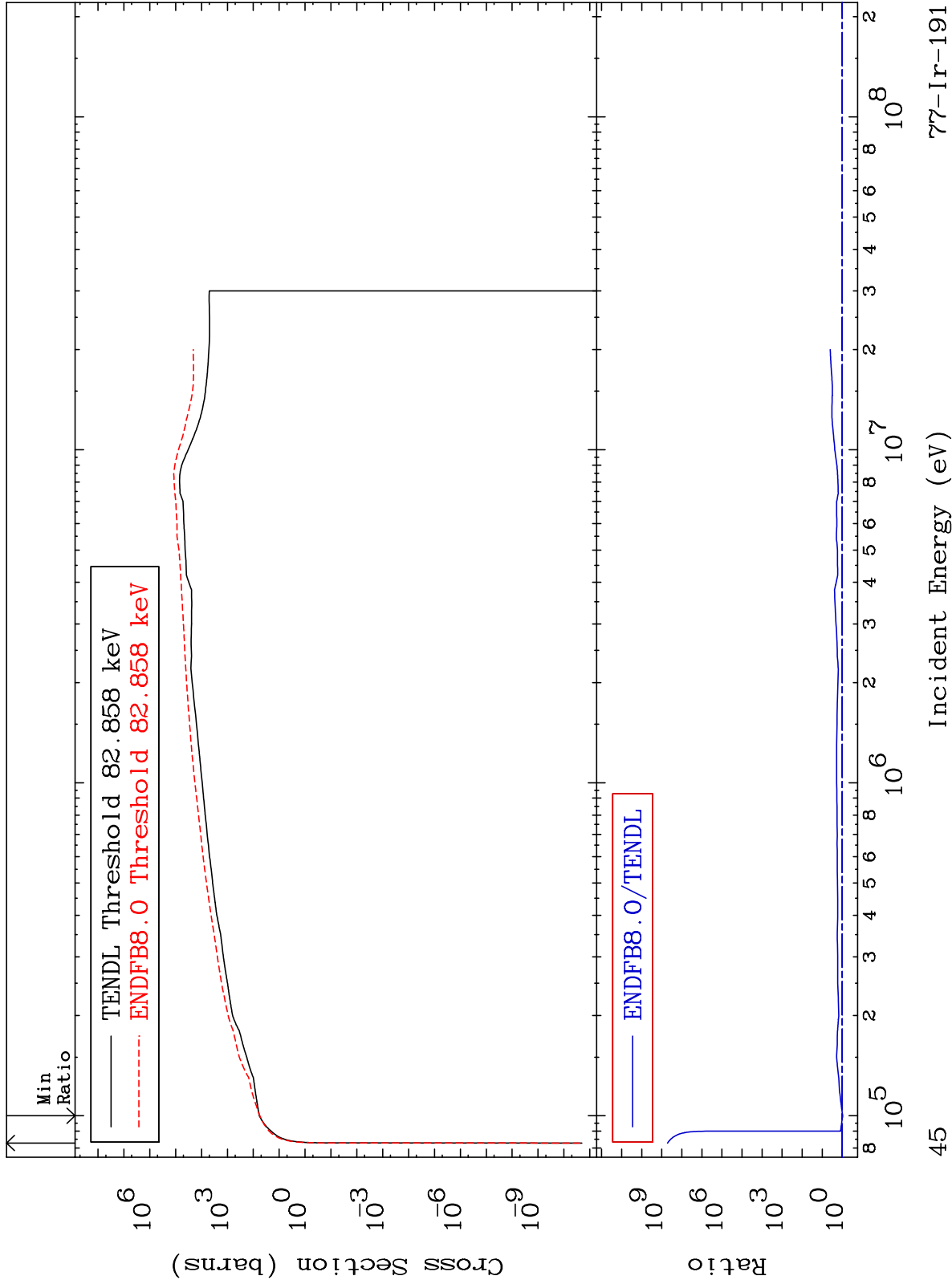
77-Ir-191
-36.98 To 1.843 %



MAT 7725

Dpa inelastic (mt51-91)
Cross Section

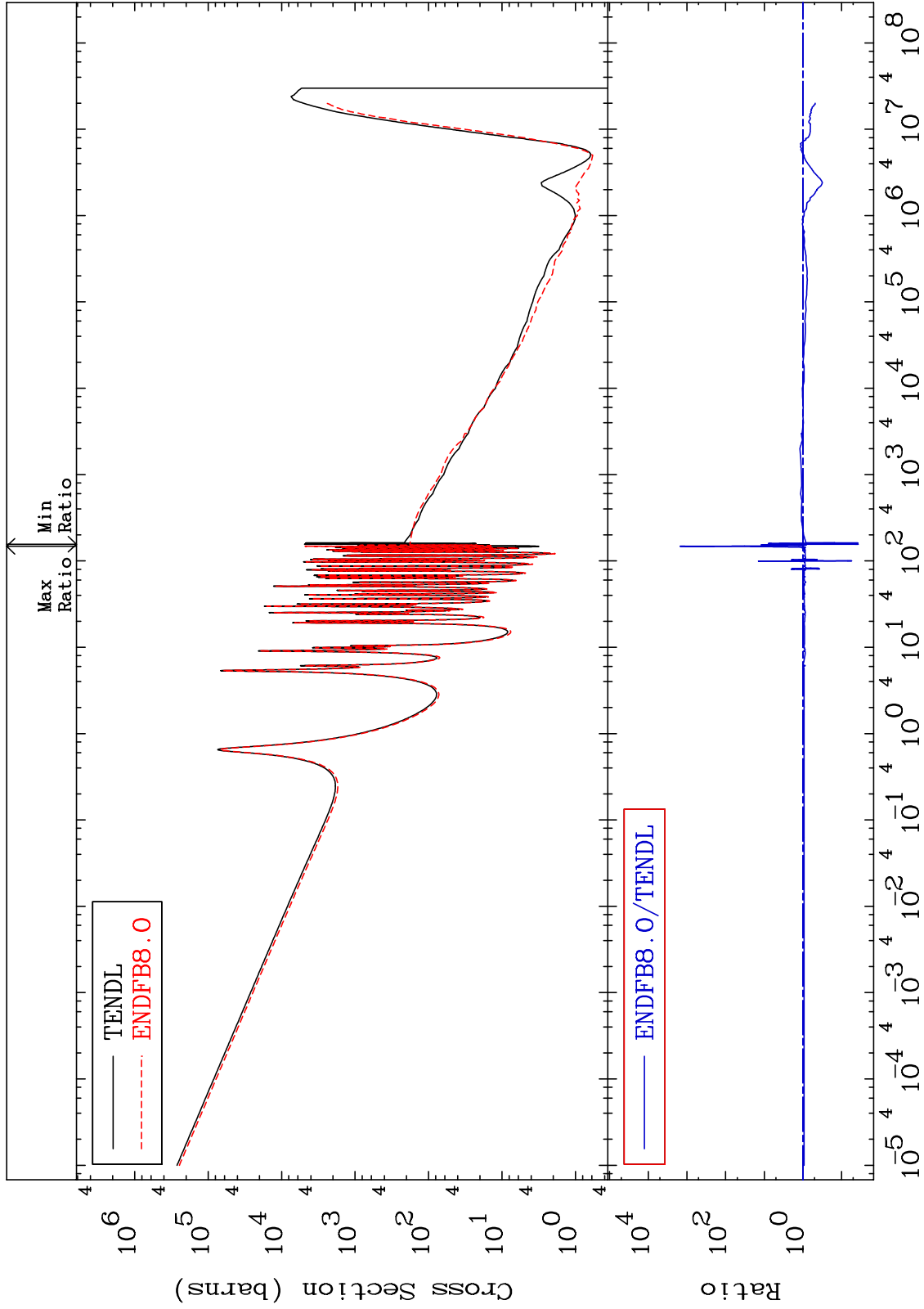
⁷⁷Ir-191
-4.483 To 9999. %



MAT 7725

Dpa disappearance (mt102 -120)
Cross Section

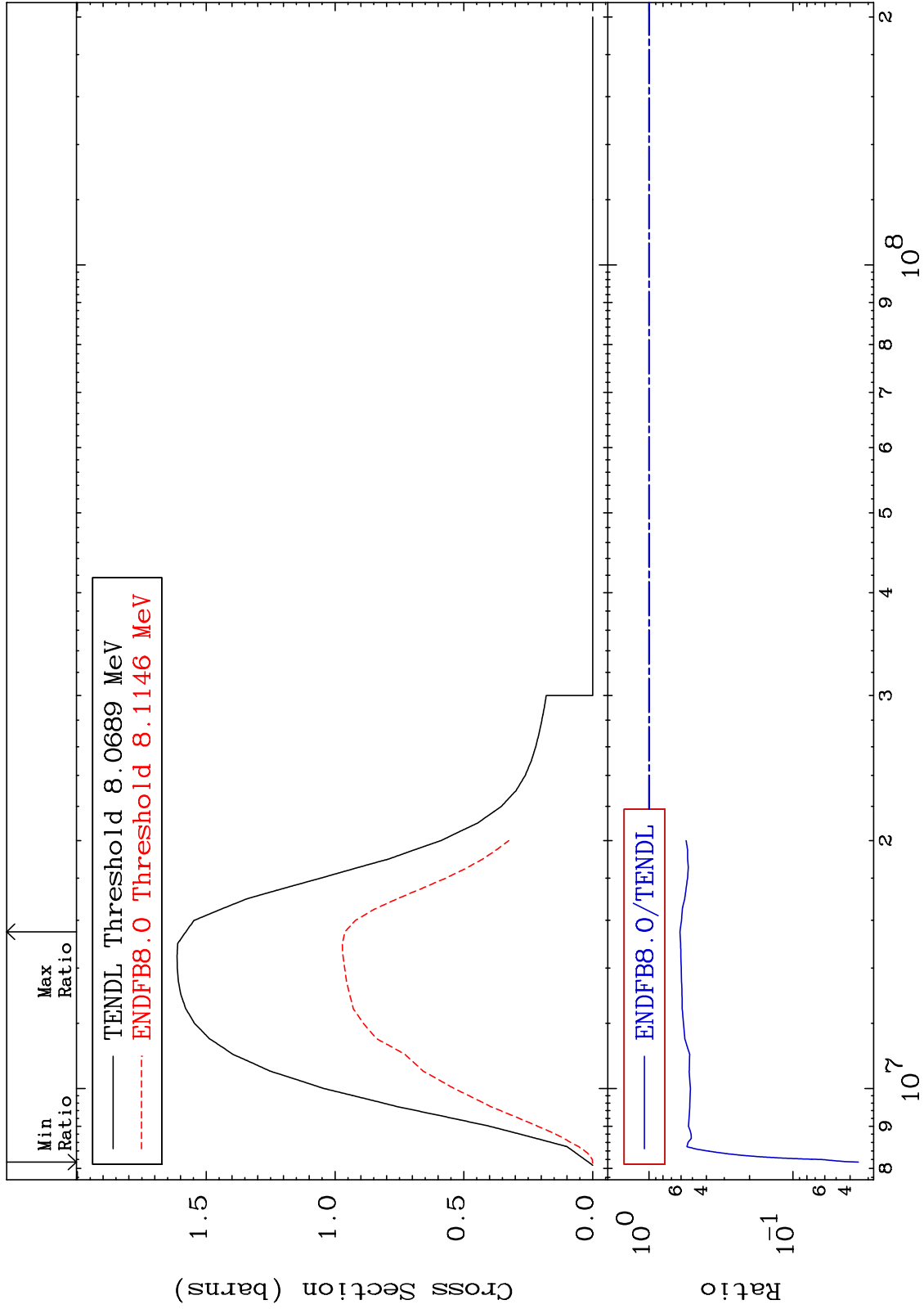
77-Ir-191
-96.33 To 9999. %



MAT 7725

(n,2n):77-Ir-190g
Radionuclide Production Cross Section -96.50 To -39.08%

77-Ir-191



47

Incident Energy (eV)

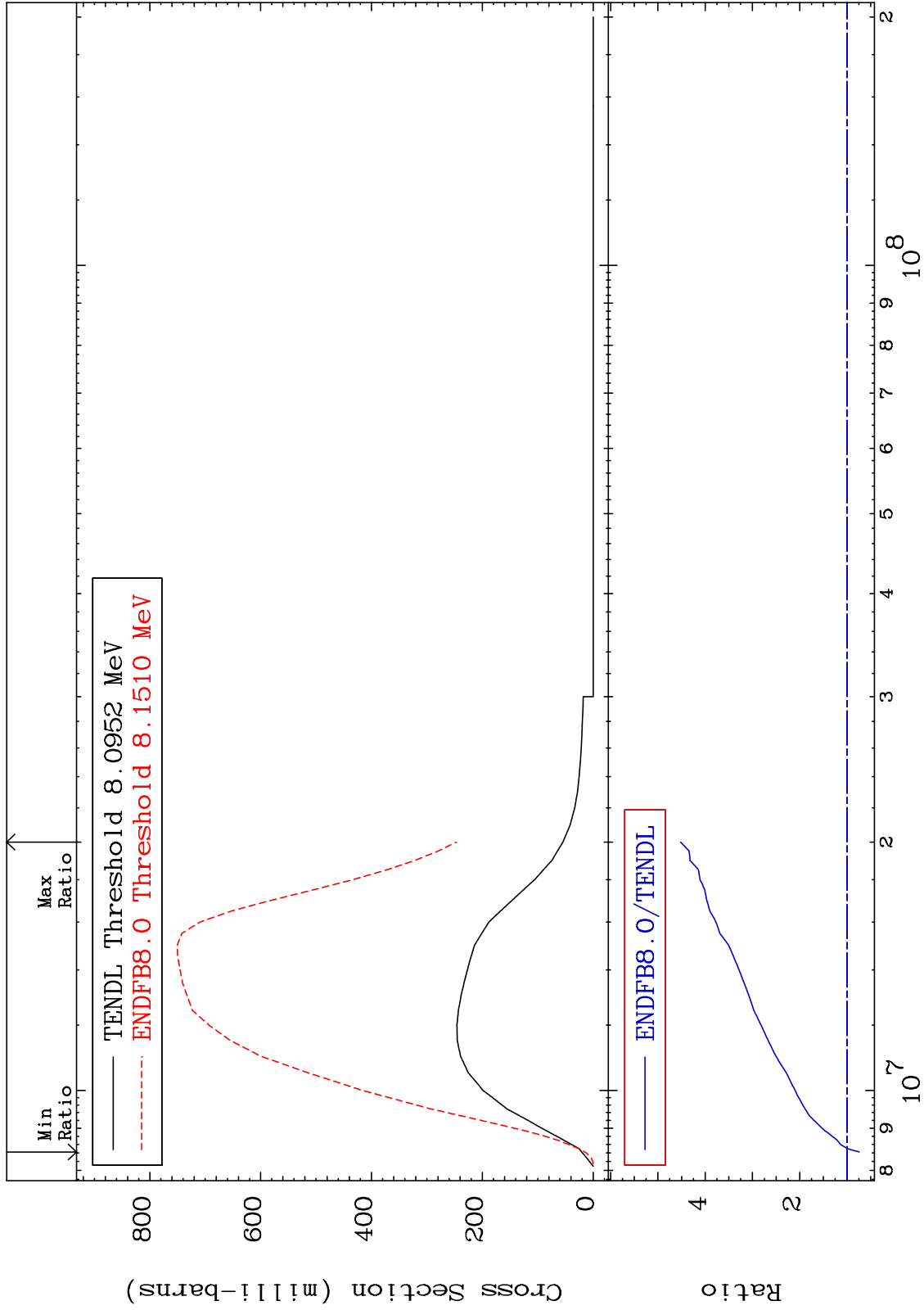
77-Ir-191

MAT 7725

(n,2n): 77-Ir-190m2

77-Ir-191

Radionuclide Production Cross Section -25.68 To 351.9 %



48

Incident Energy (eV)

77-Ir-191