

Program Complot
(Version 2021-1)

by

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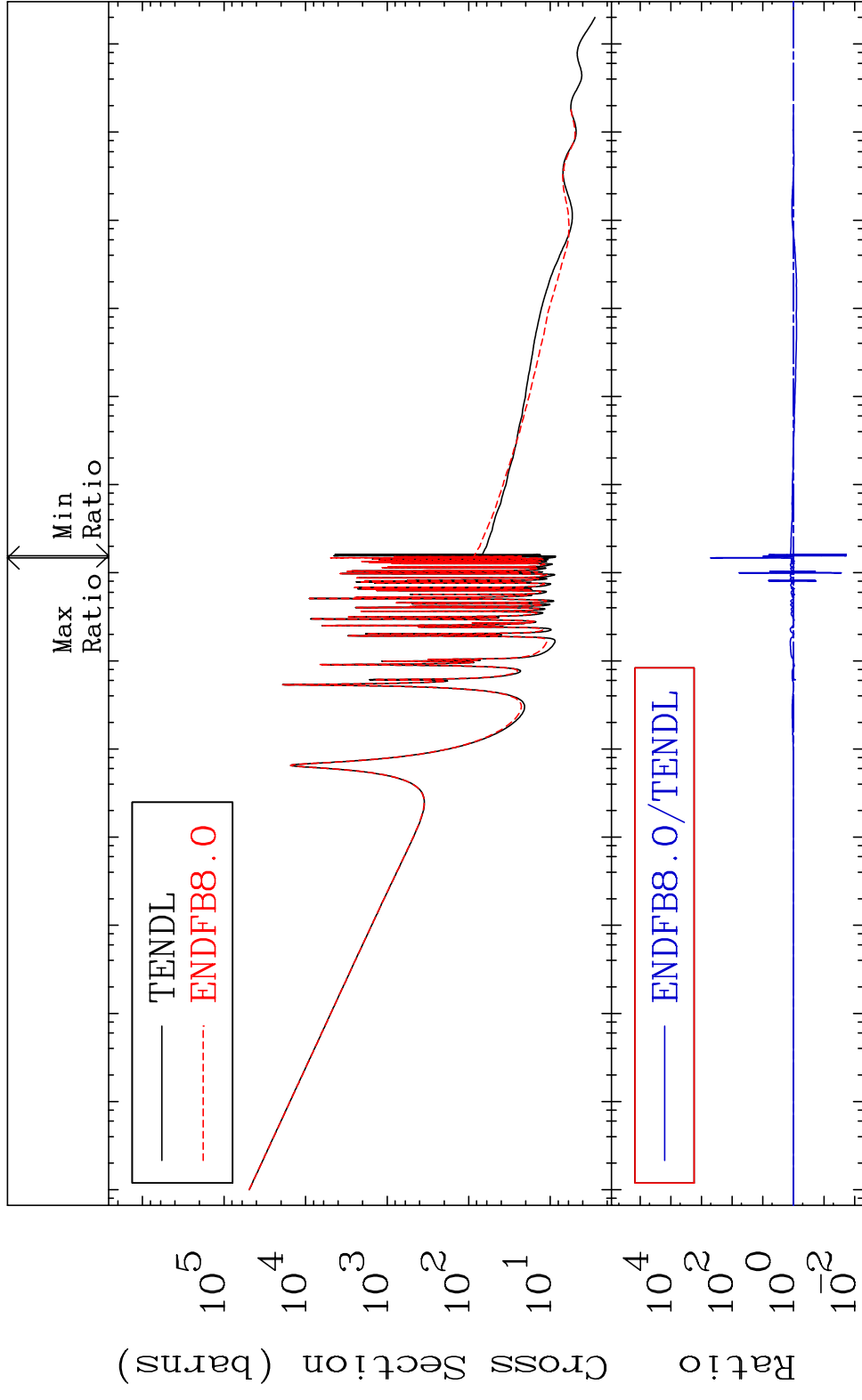
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7725

Total Cross Section -98.12 To 9999. %

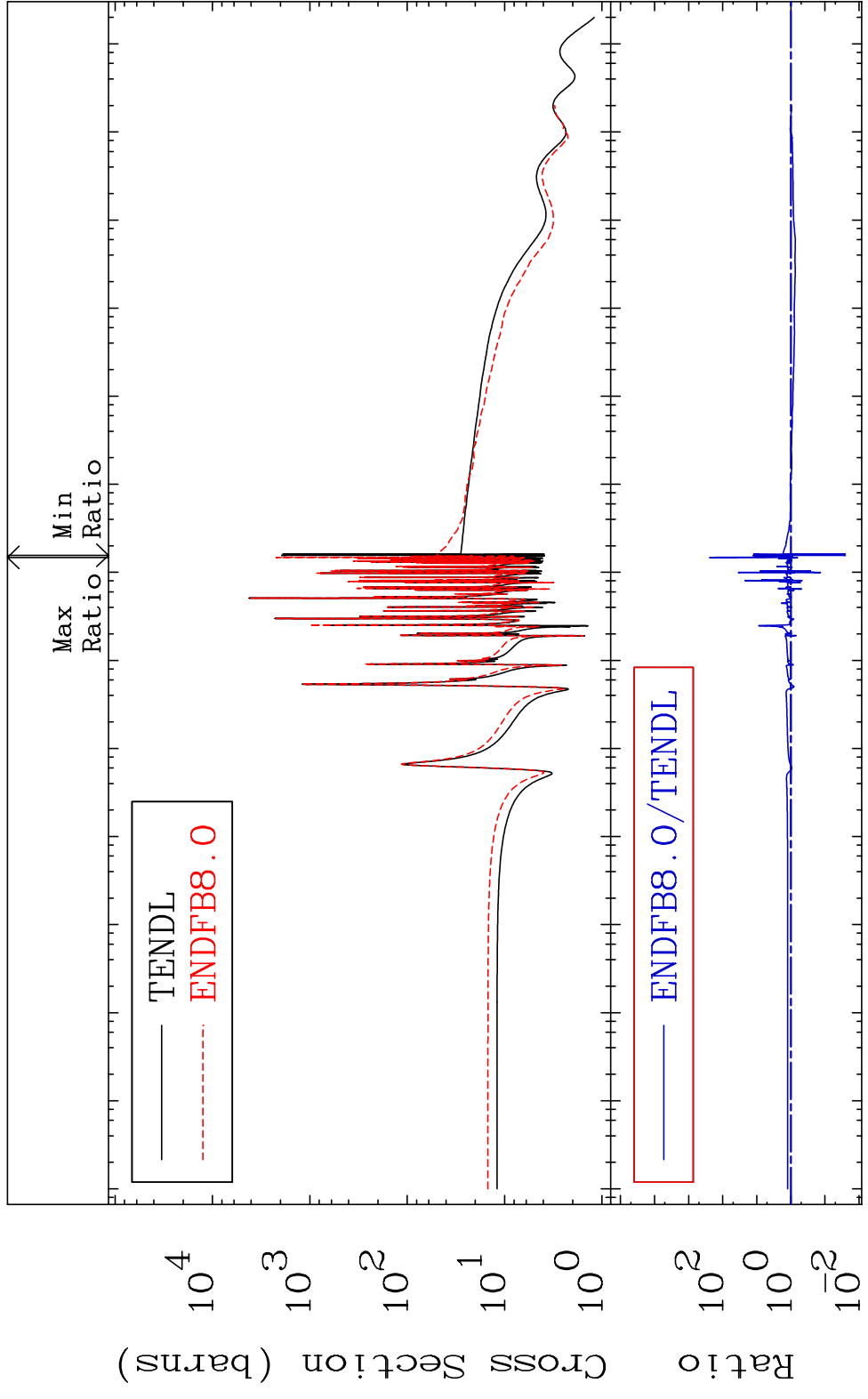
77-Ir-191



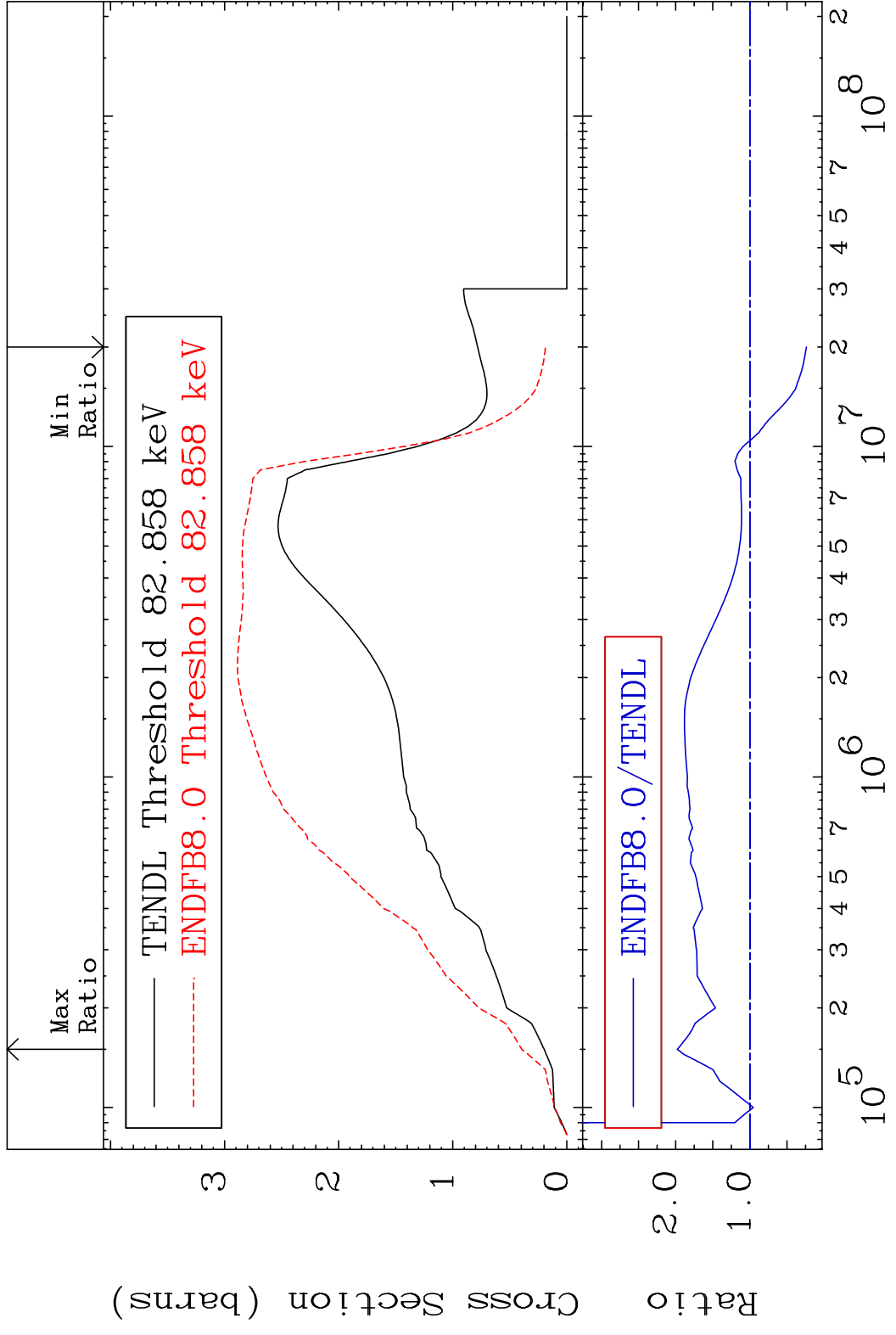
1 Incident Energy (eV) 77-Ir-191

MAT 7725

Elastic Cross Section -97.45 To 9999. %
77-Ir-191



MAT 7725 Inelastic 77-Ir-191
 Cross Section -76.17 To 98.01 %



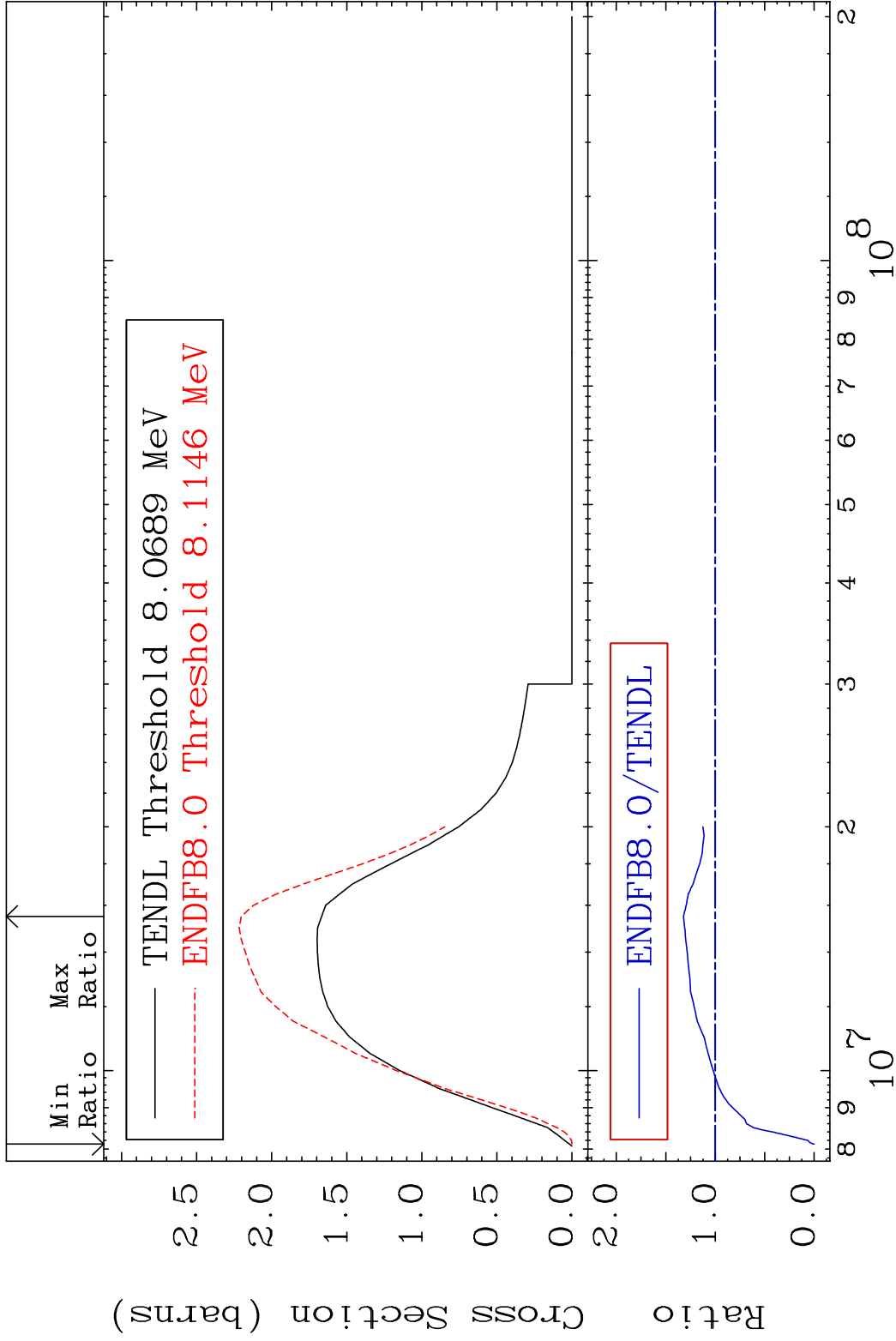
3 2 1 0 2.0 1.0 3 2 1 0 7 2 3 4 5 6 7 8 10⁵ 10⁶ 10⁷ 10⁸ 77-Ir-191

MAT 7725

(n,2n)

77-Ir-191

Cross Section -100.0 To 32.11 %



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Incident Energy (eV)

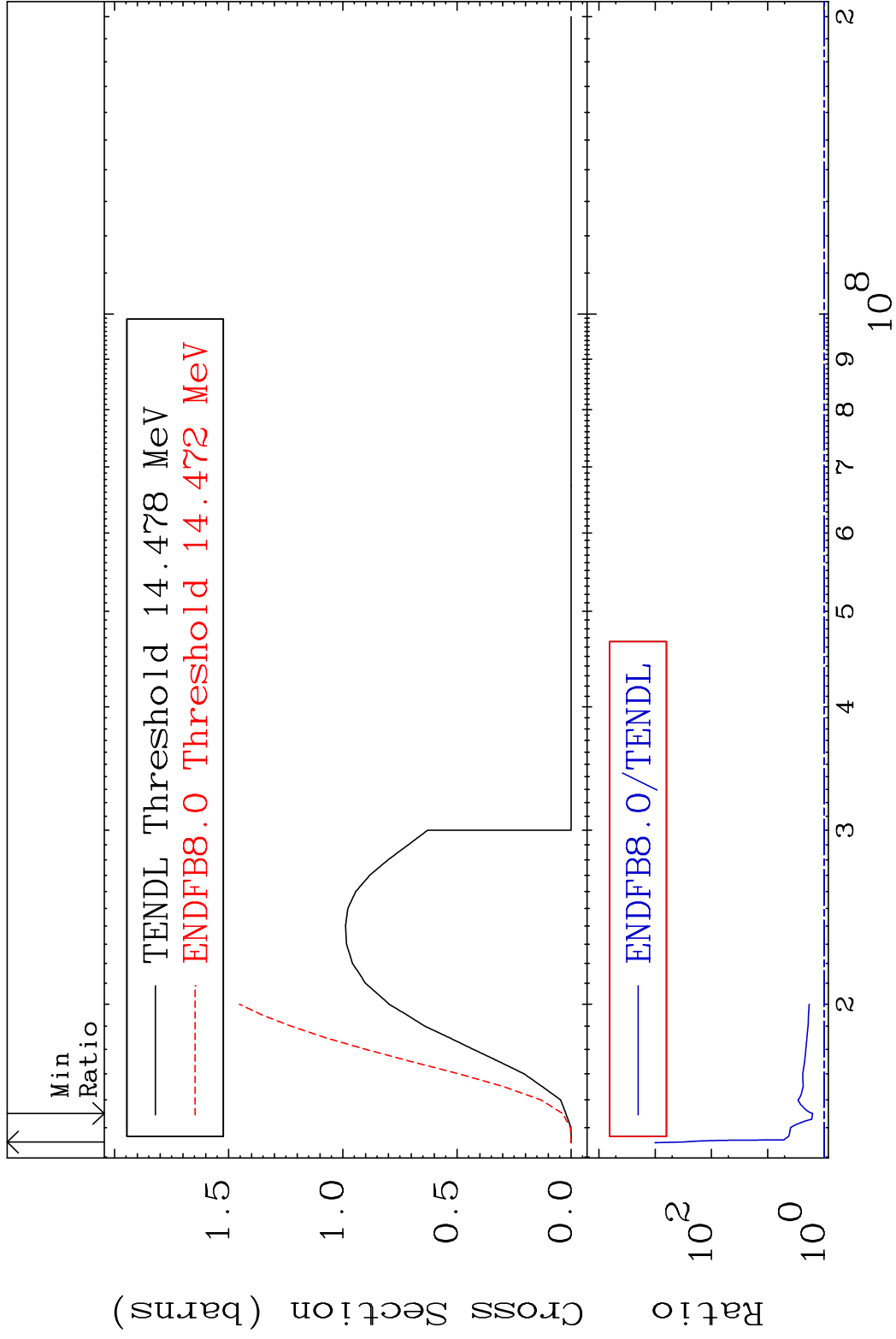
77-Ir-191

MAT 7725

(n,3n)

77-Ir-191

Cross Section 59.35 To 9999. %



5

Incident Energy (eV)

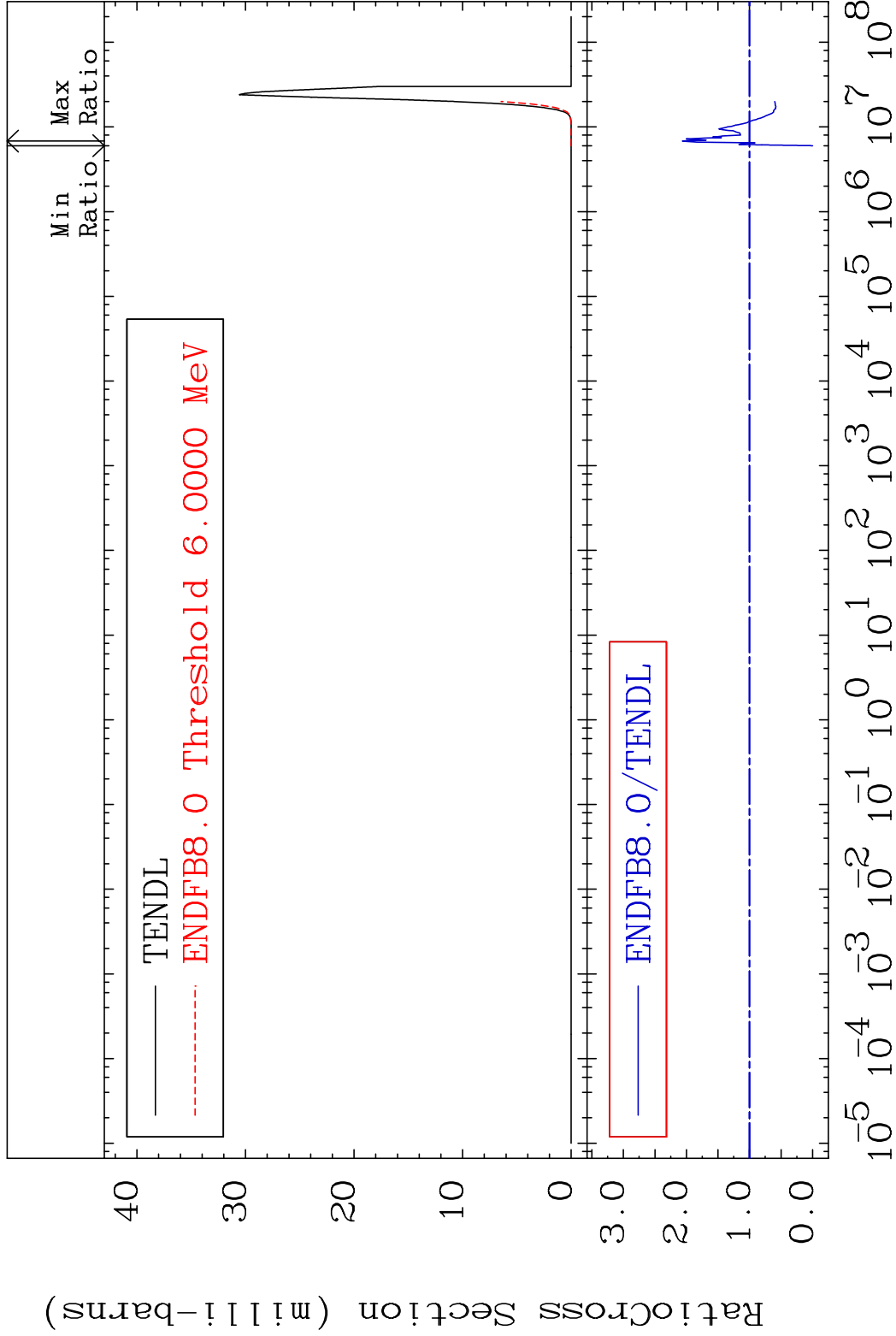
77-Ir-191

MAT 7725

(n, n') α

77-Ir-191

Cross Section -100.0 To 106.5 %

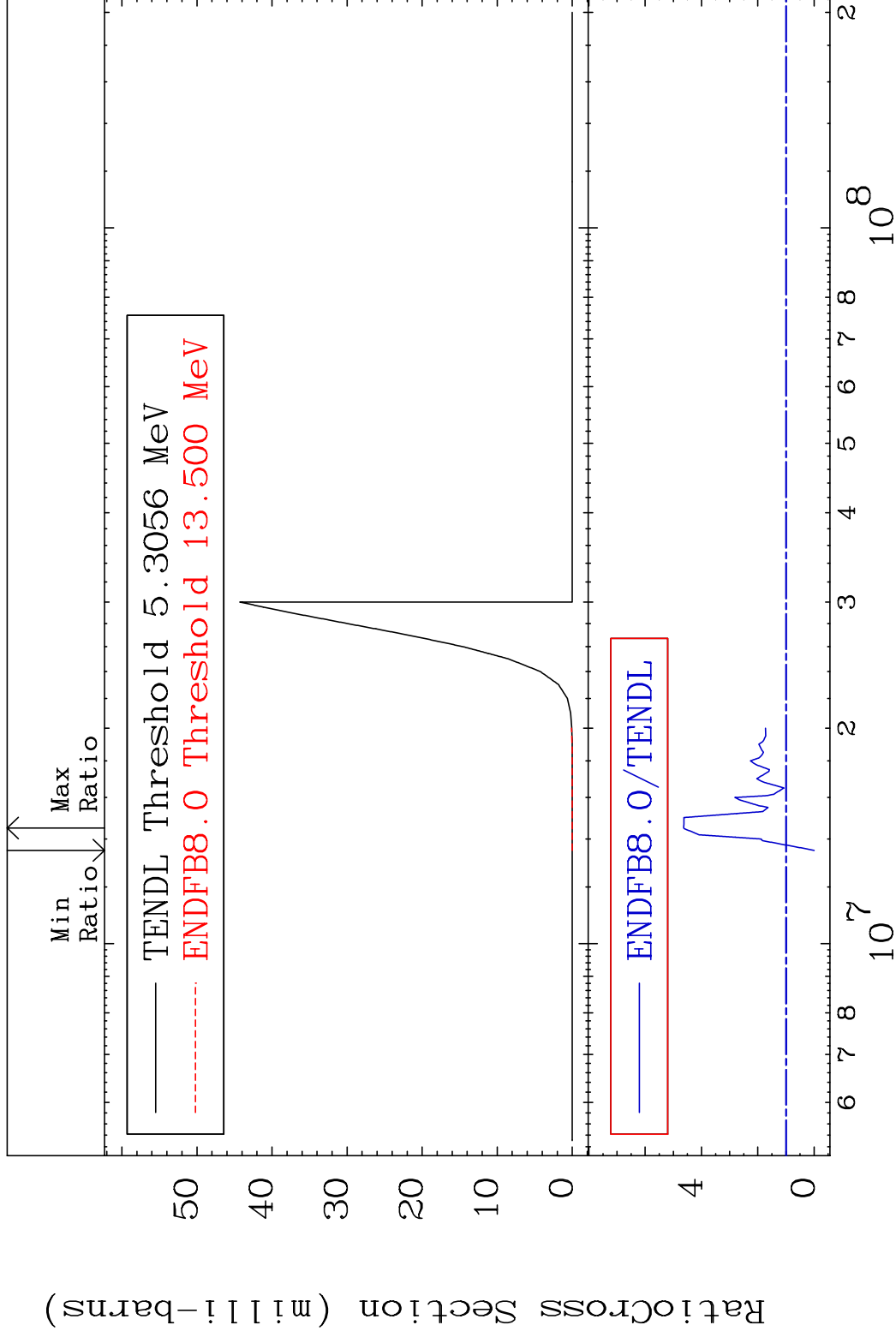


MAT 7725

(n,2n) α

77-Ir-191

Cross Section -100.0 To 363.4 %

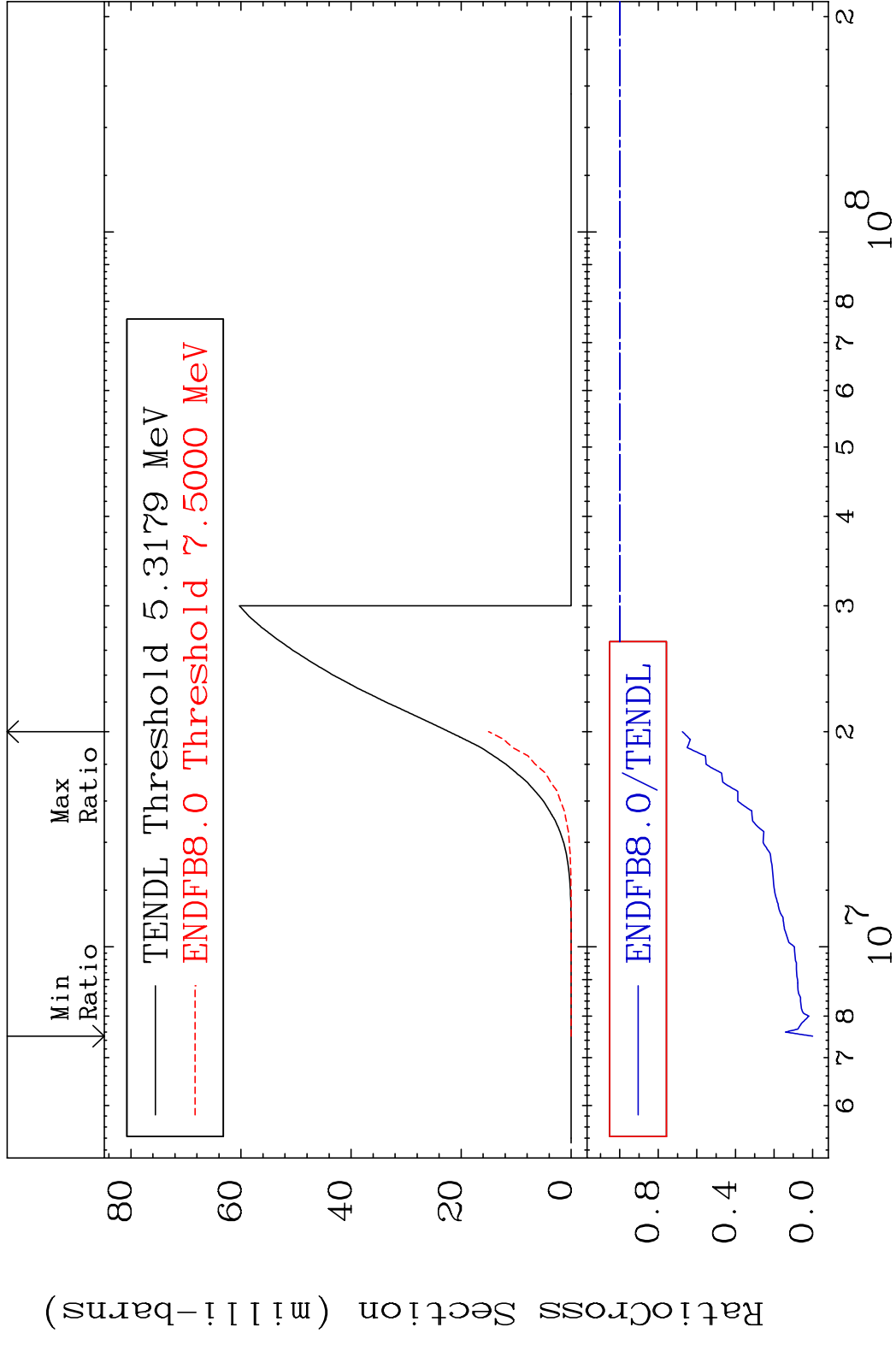


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Incident Energy (eV)

77-Ir-191

MAT 7725 (n, n') p 77-Ir-191
 Cross Section -100.0 To -32.48%

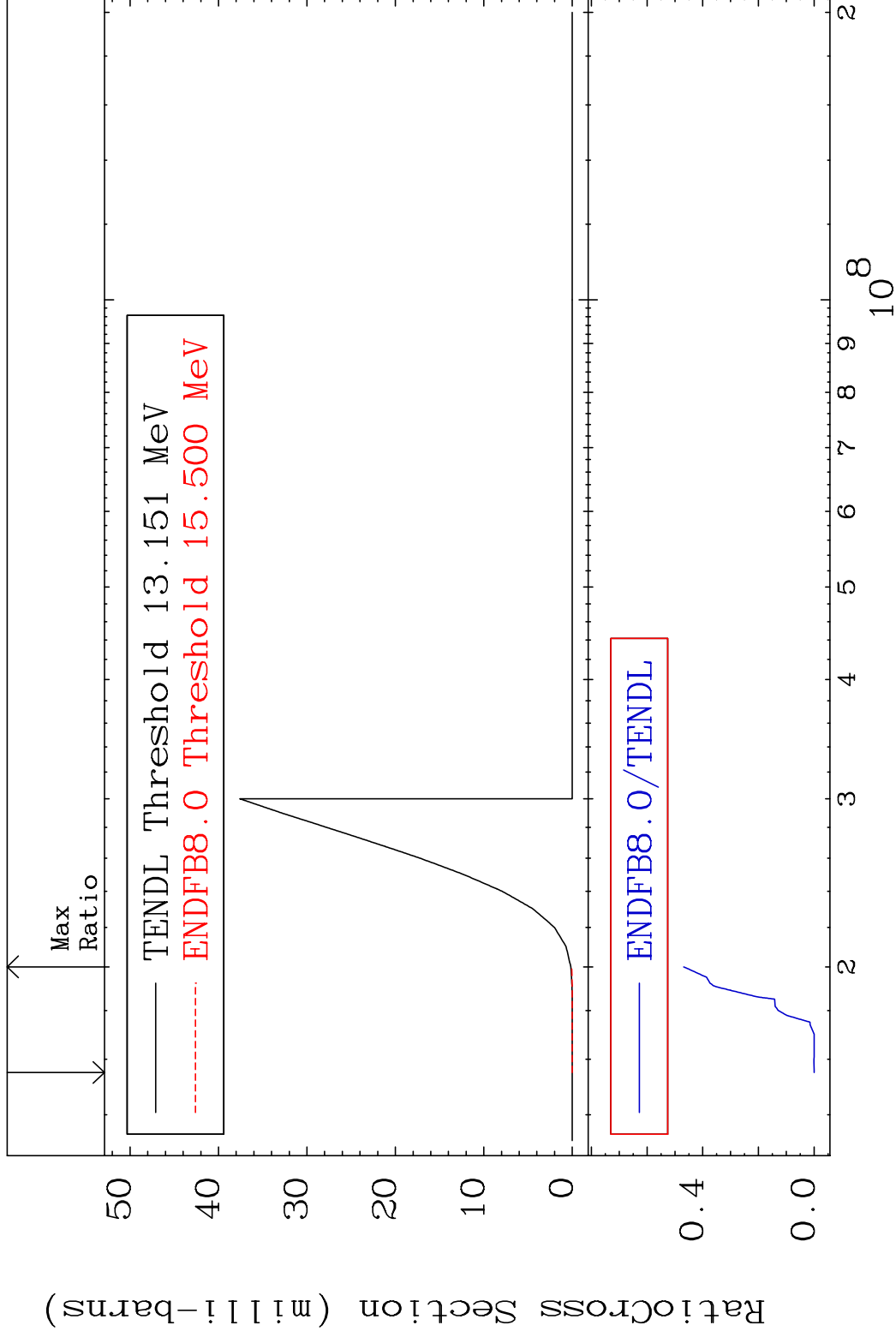


MAT 7725

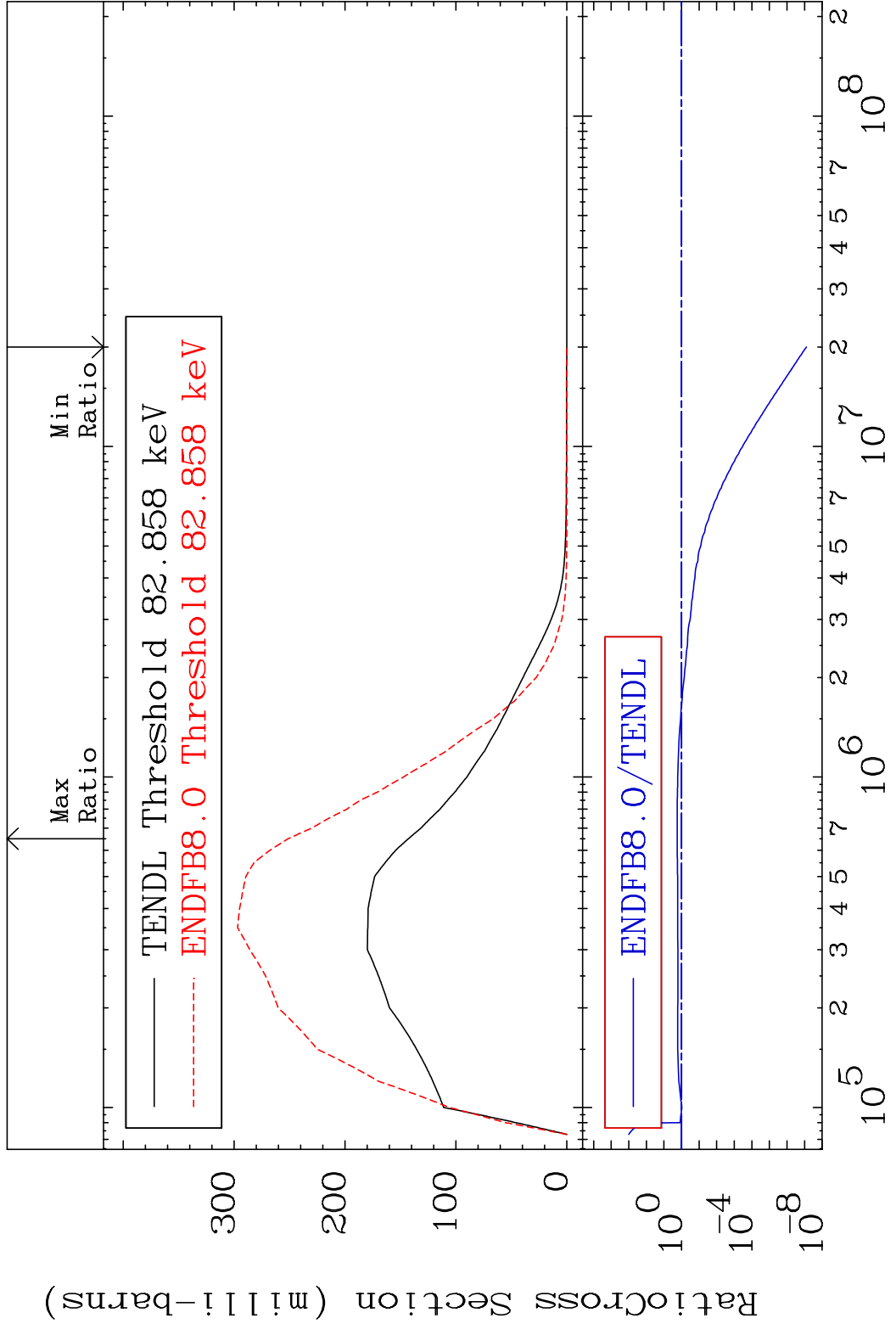
(n,2n) p

77-Ir-191

Cross Section -100.0 To -53.14%

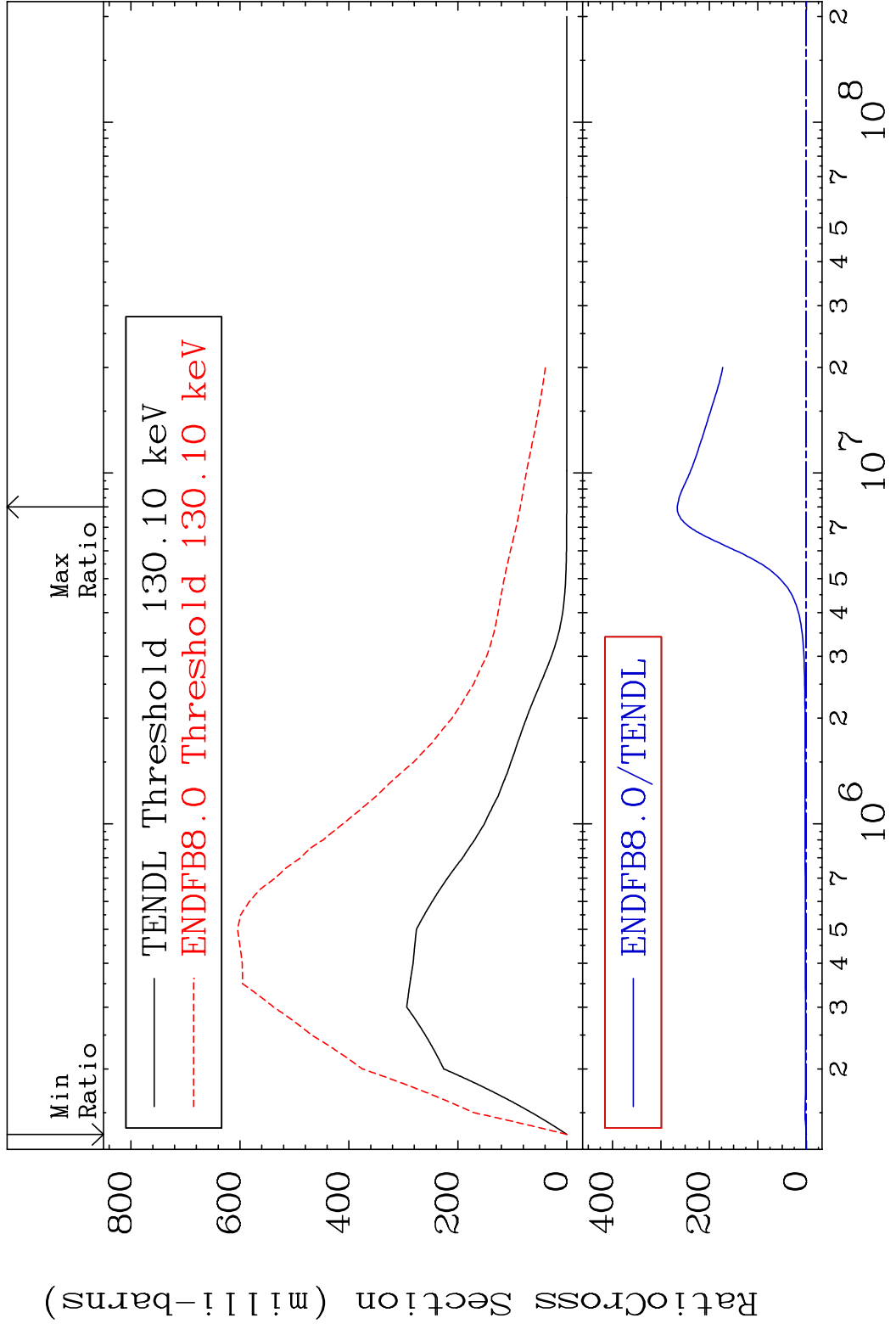


MAT 7725 MT= 51 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 75.91 %

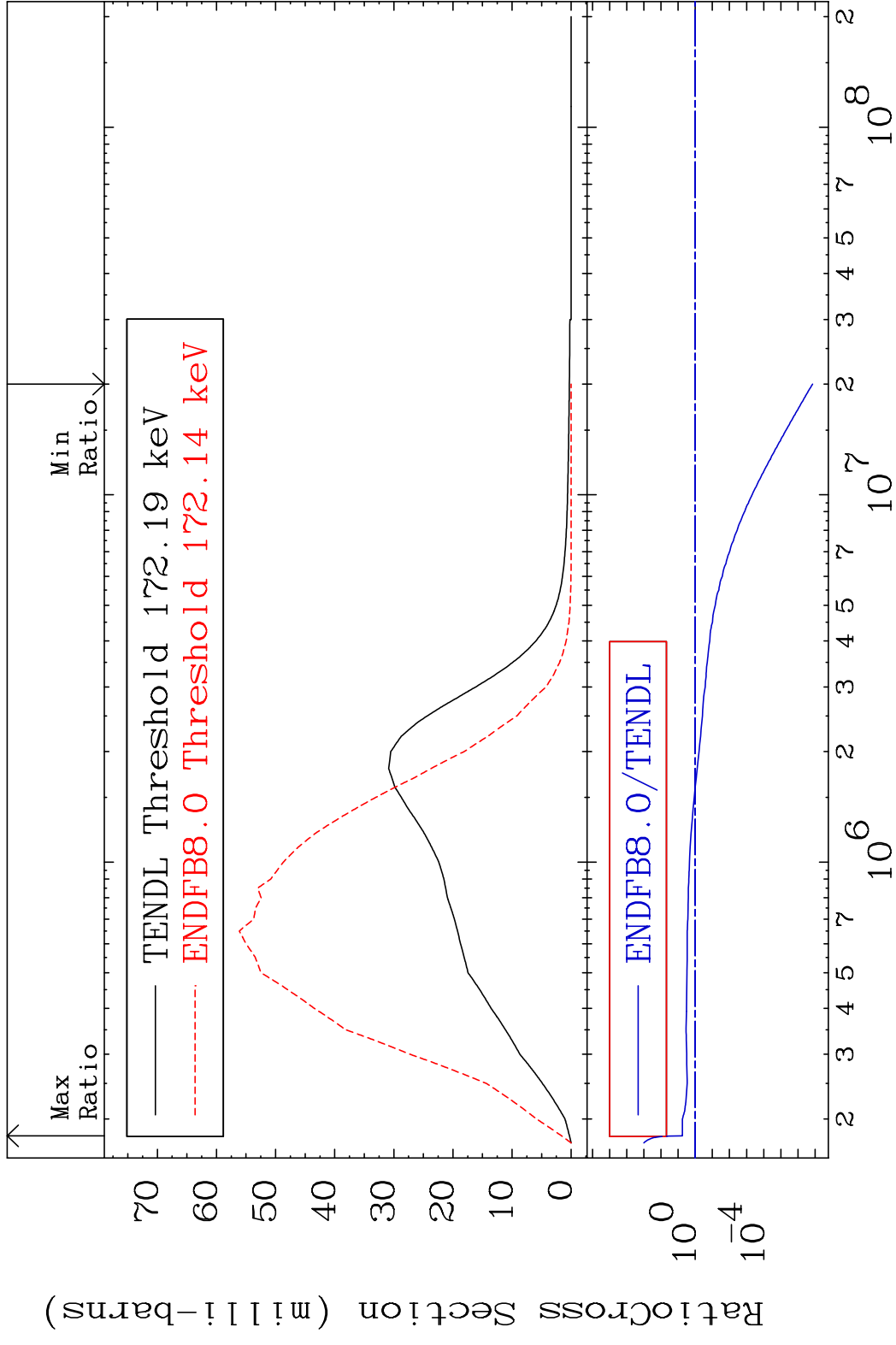


10 10 10⁵ 10⁶ 10⁷ 10⁸ 2 3 4 5 6 7 8 2 77-Ir-191

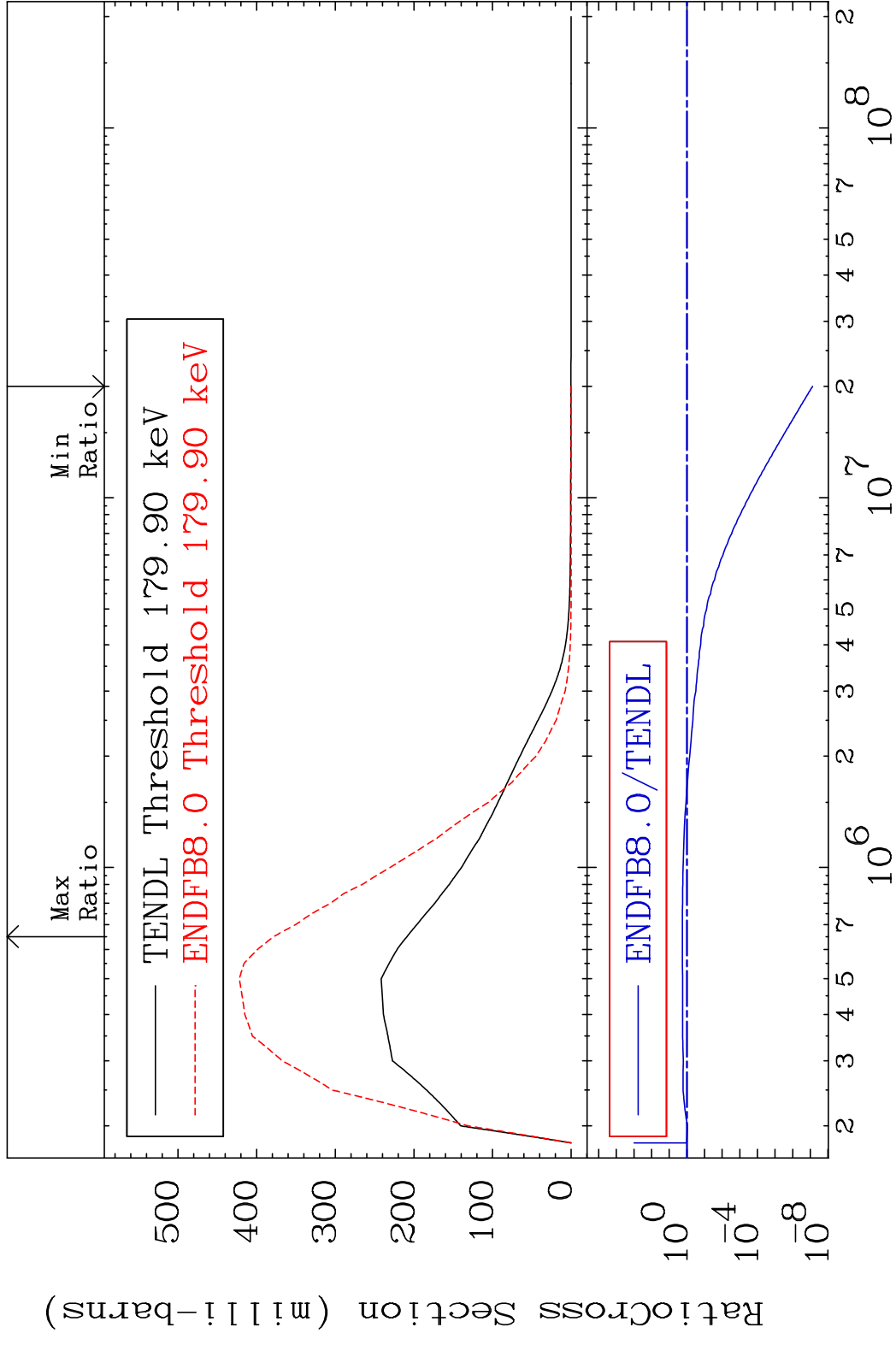
MAT 7725 MT= 52 (n, n') Level 77-Ir-191
 Cross Section -100.0 To 9999. %



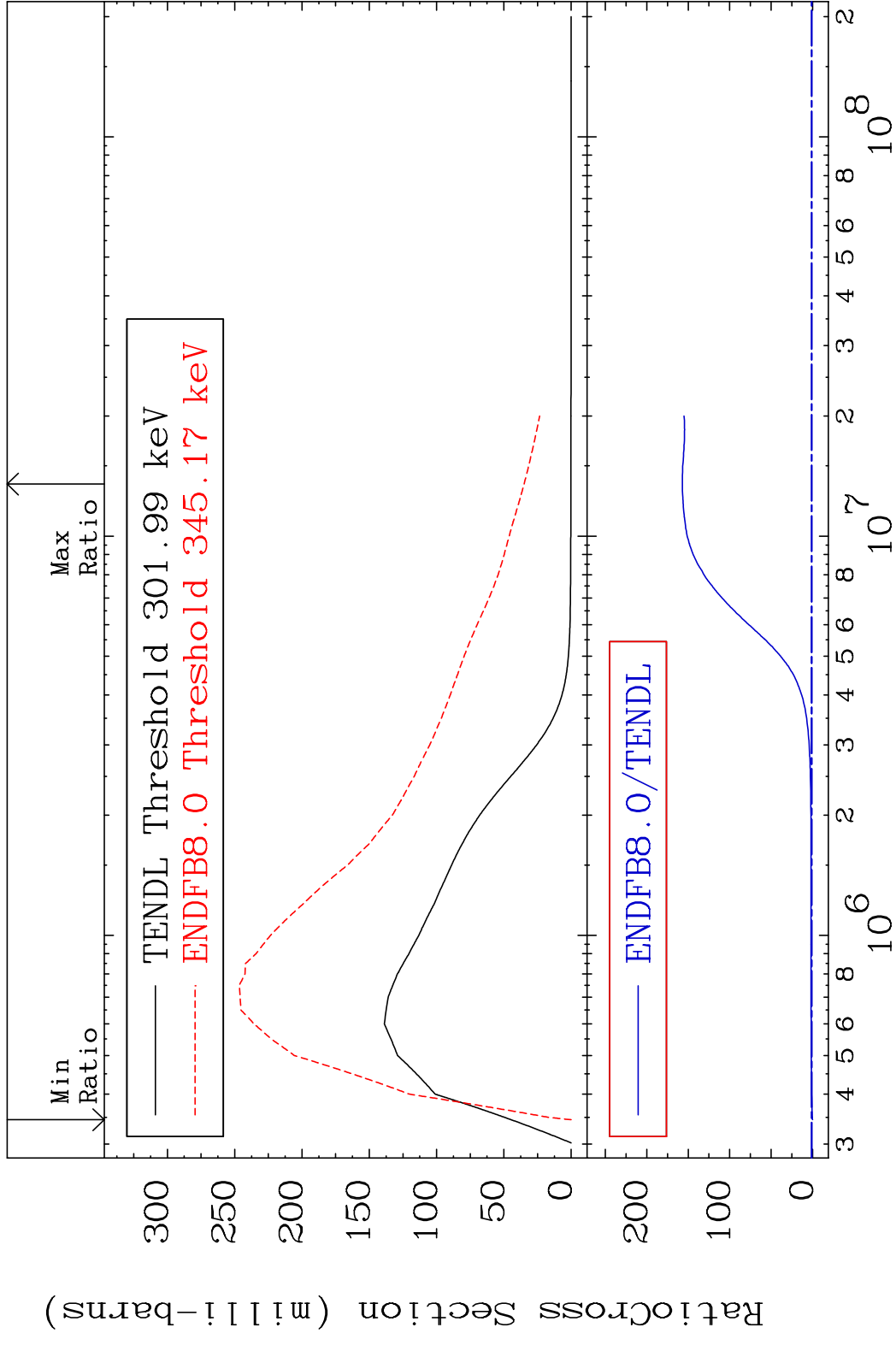
MAT 7725 MT= 53 (n, n') Level 77-Ir-191
 Cross Section -100.0 To 464.1 %



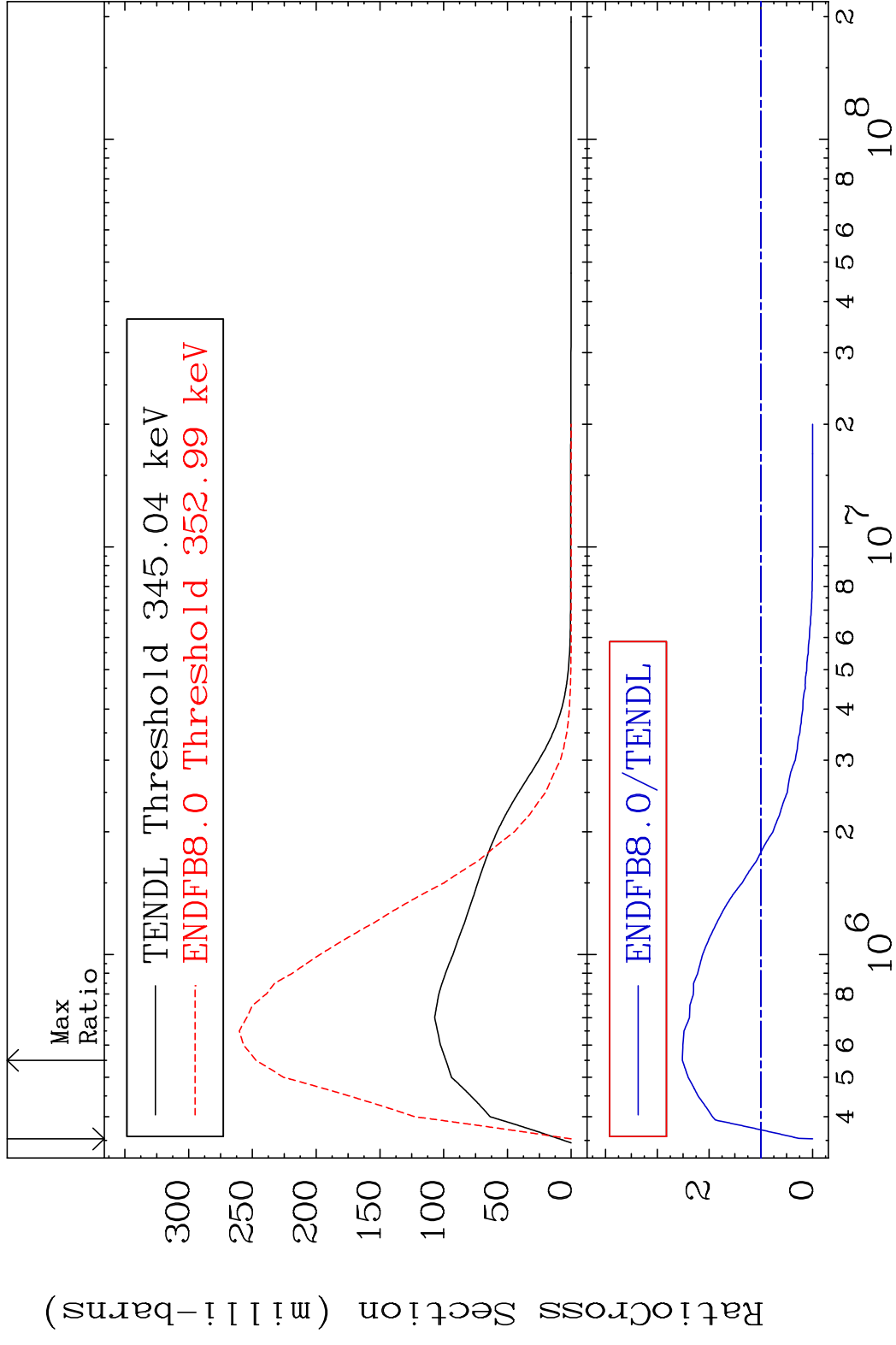
MAT 7725 MT= 54 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 81.13 %



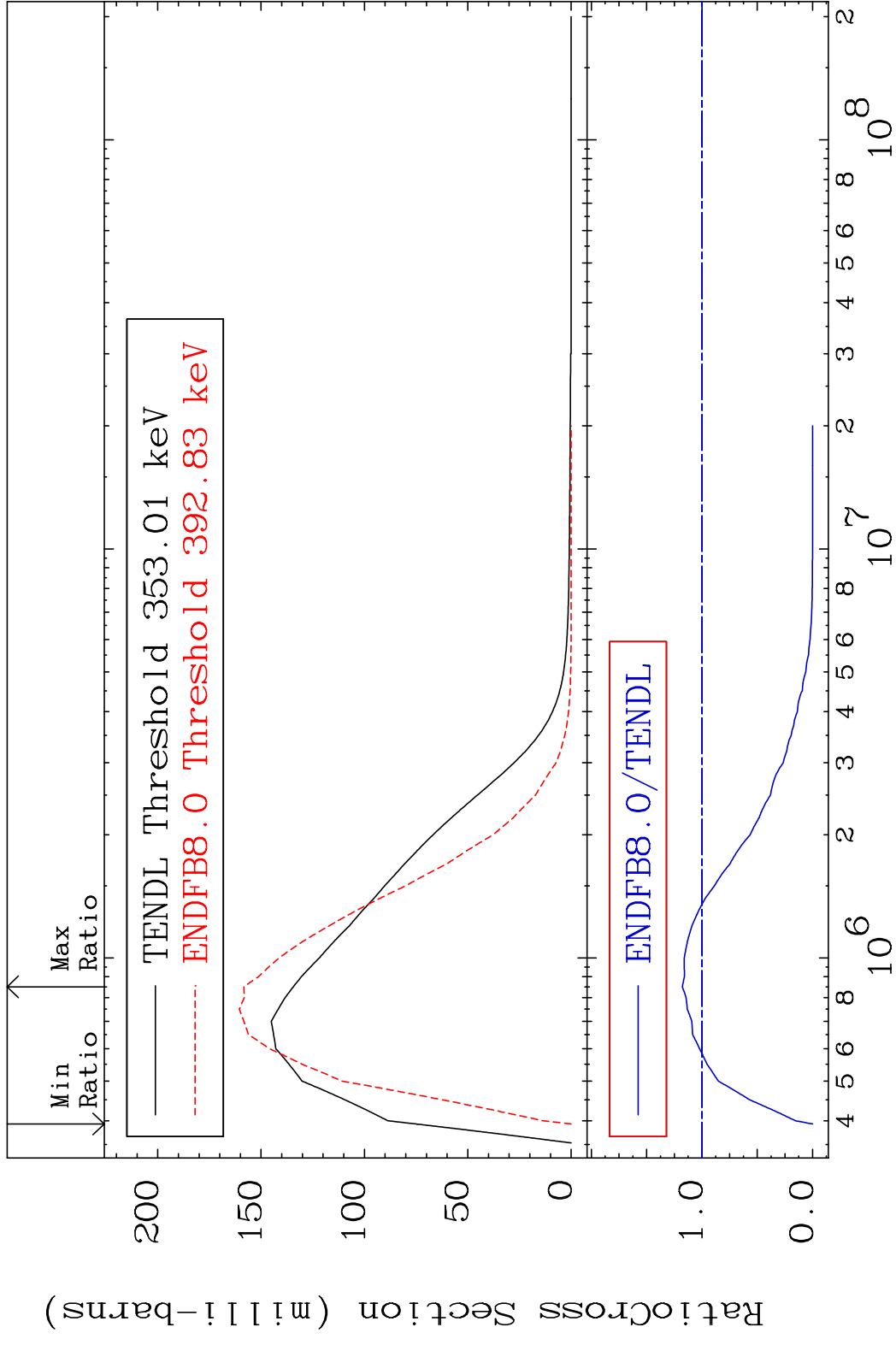
MAT 7725 MT= 55 (n, n') Level 77-Ir-191
 Cross Section -100.0 To 9999. %



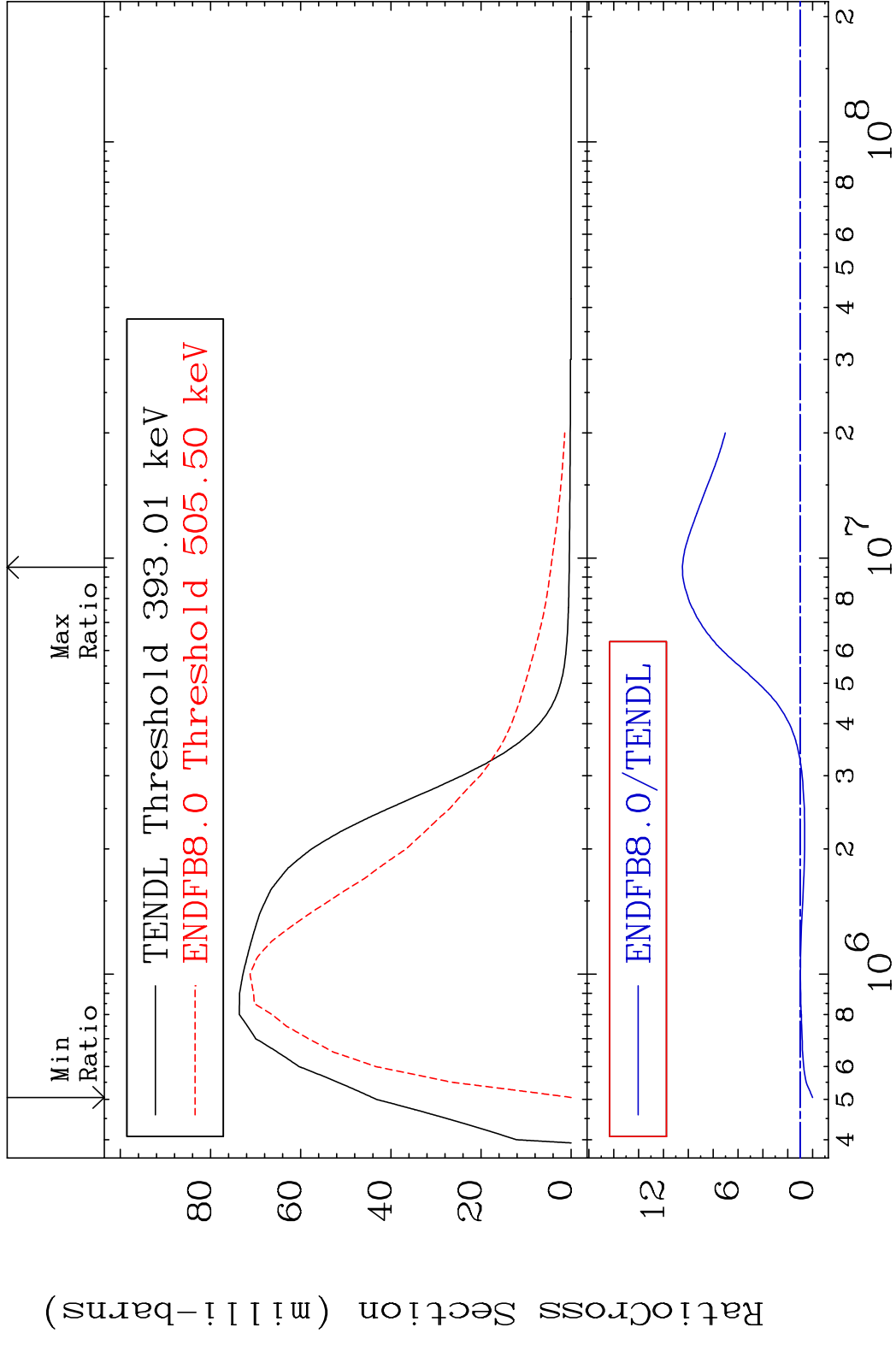
MAT 7725 MT= 56 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 151.5 %



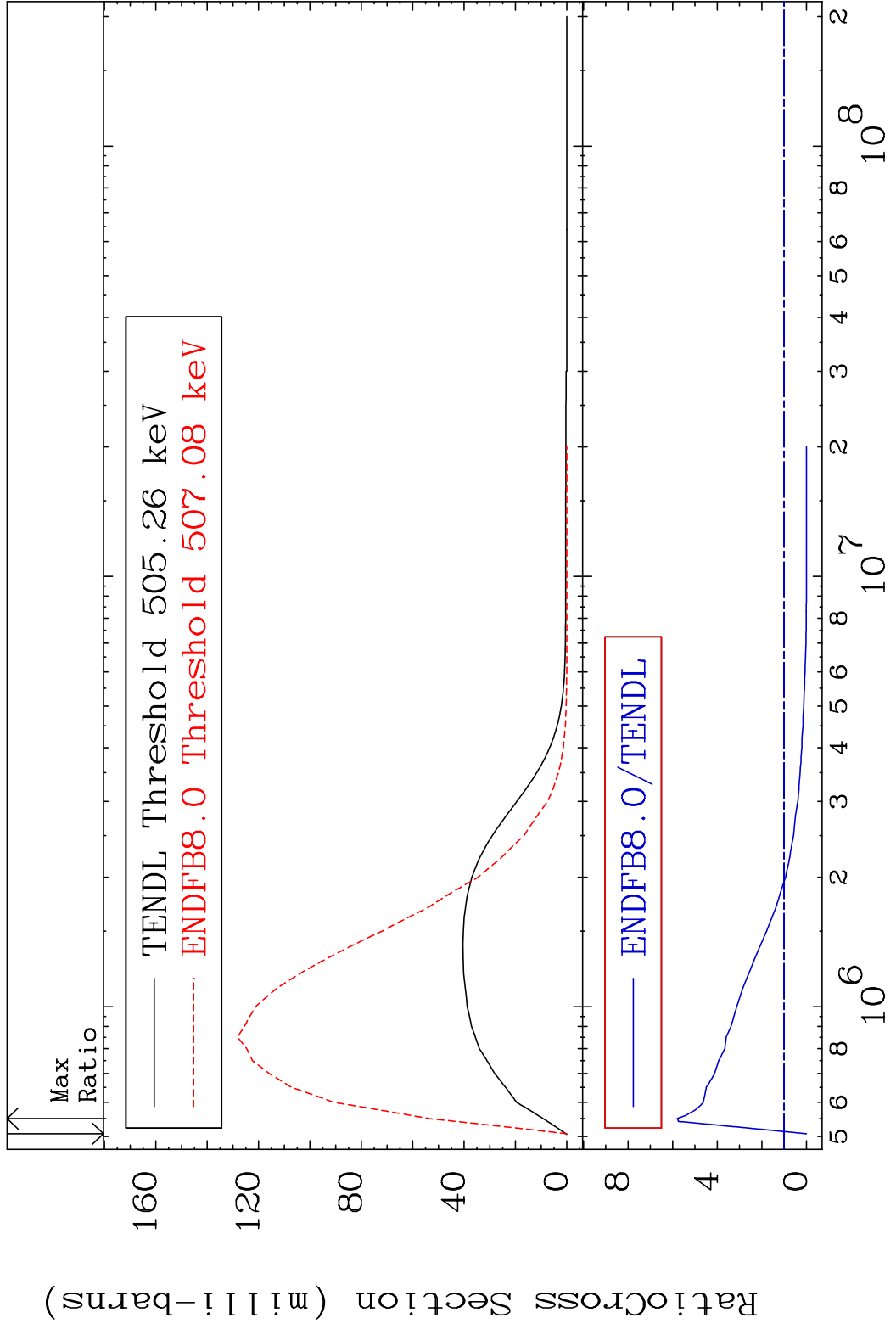
MAT 7725 MT= 57 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 17.73 %



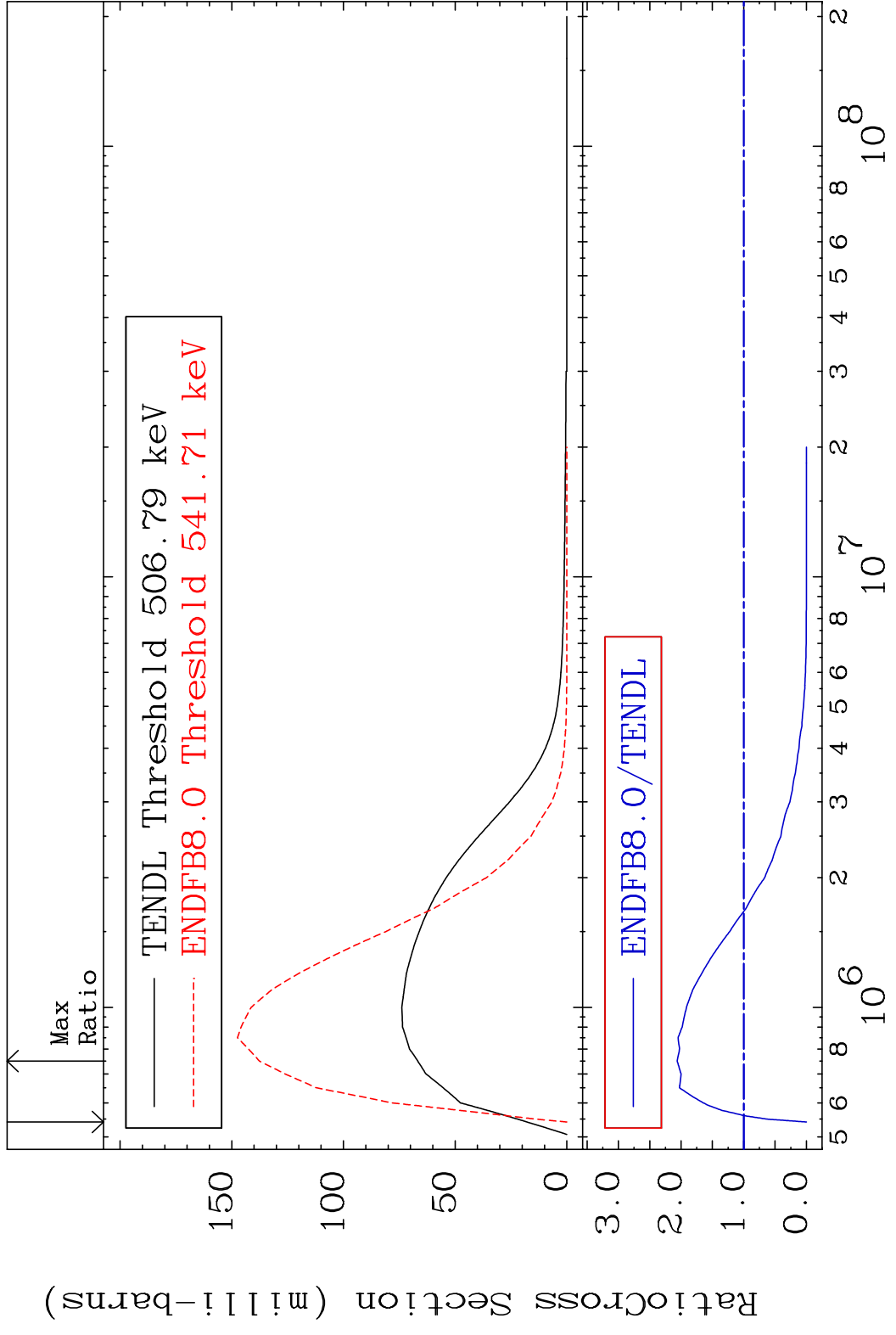
MAT 7725 MT= 58 (n, n') Level 77-Ir-191
 Cross Section -100.0 To 947.5 %



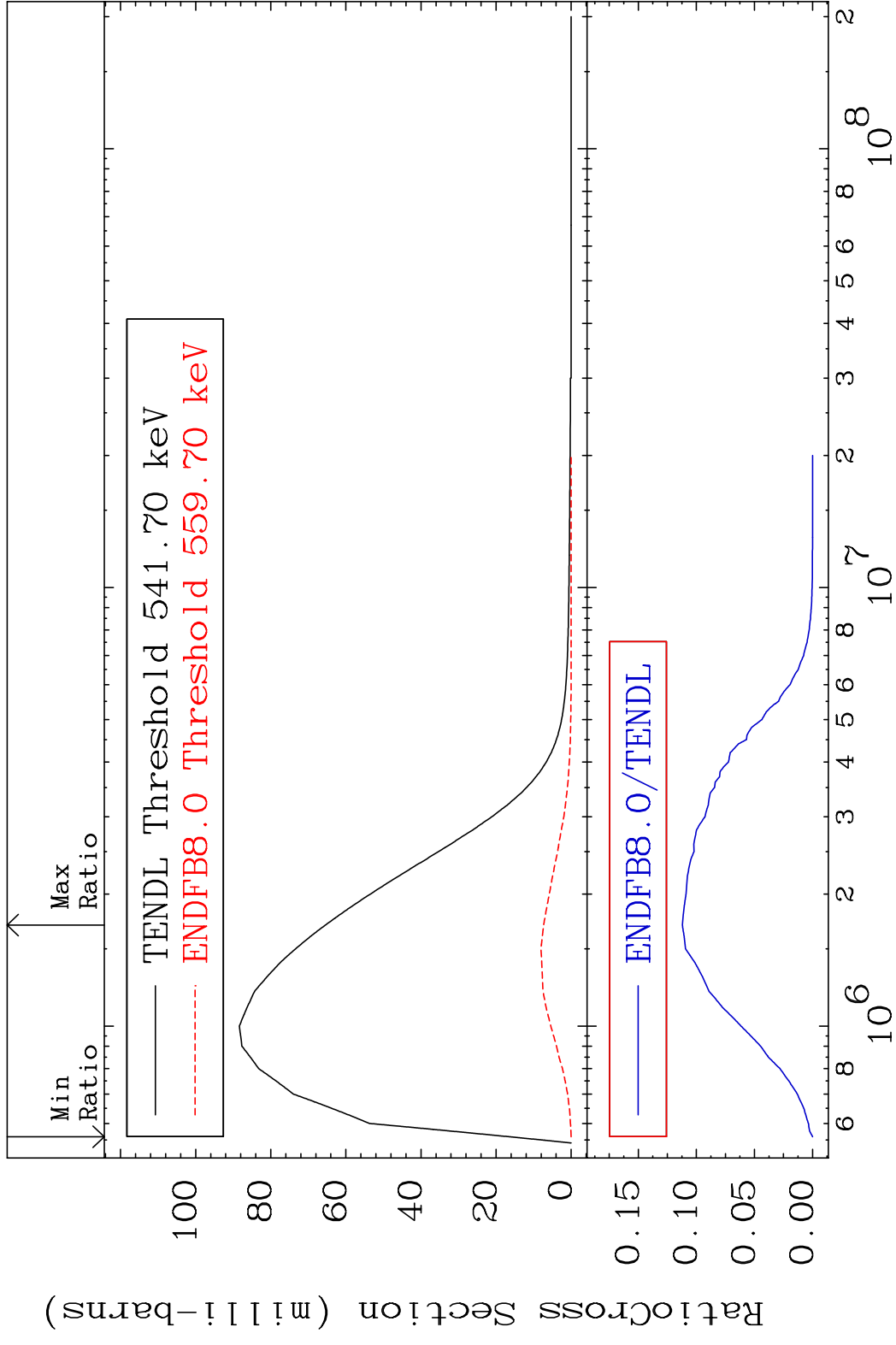
MAT 7725 MT= 59 (n, n') Level 77-Ir-191
 Cross Section -100.0 To 479.8 %



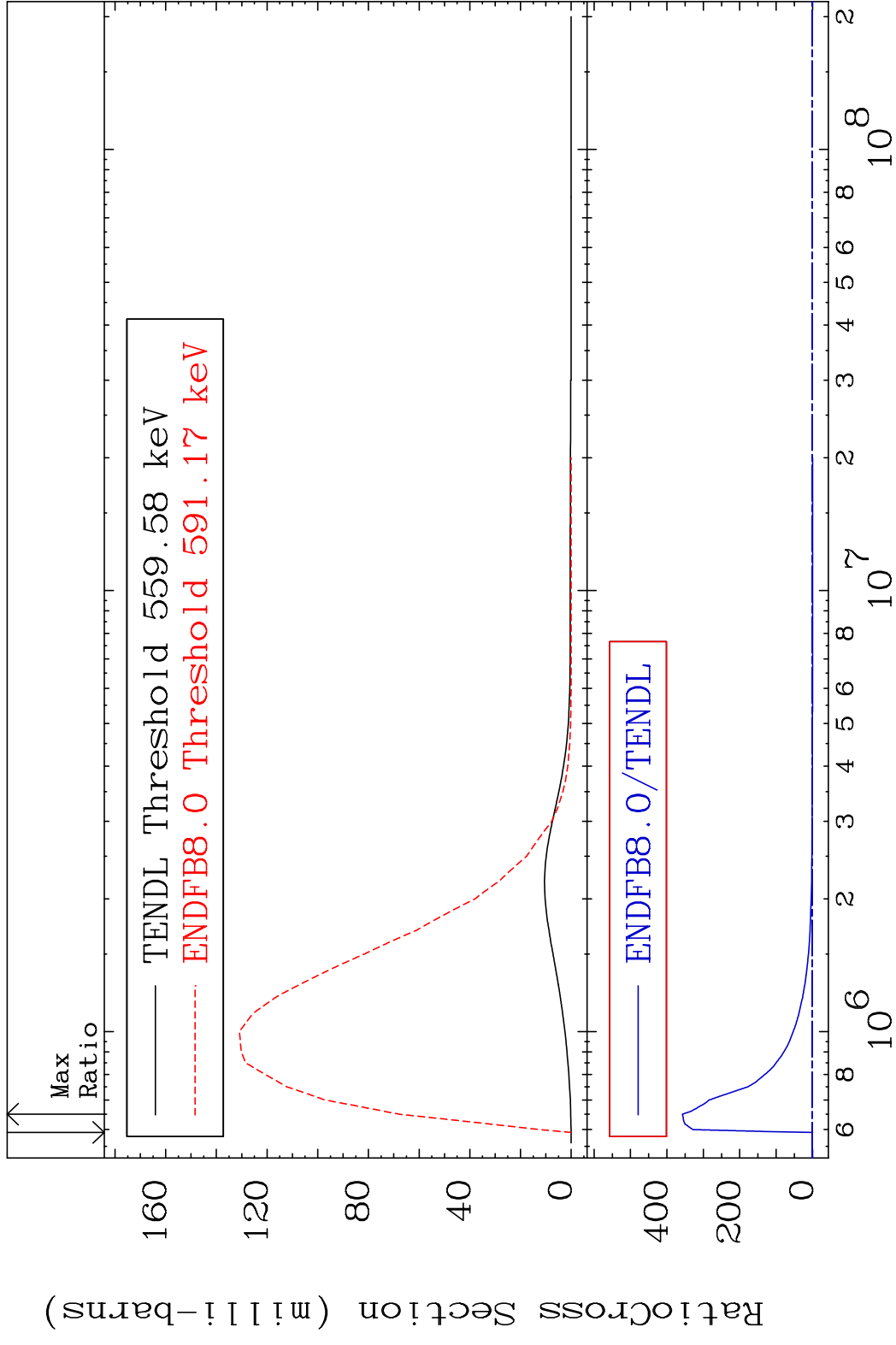
MAT 7725 MT= 60 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 106.2 %



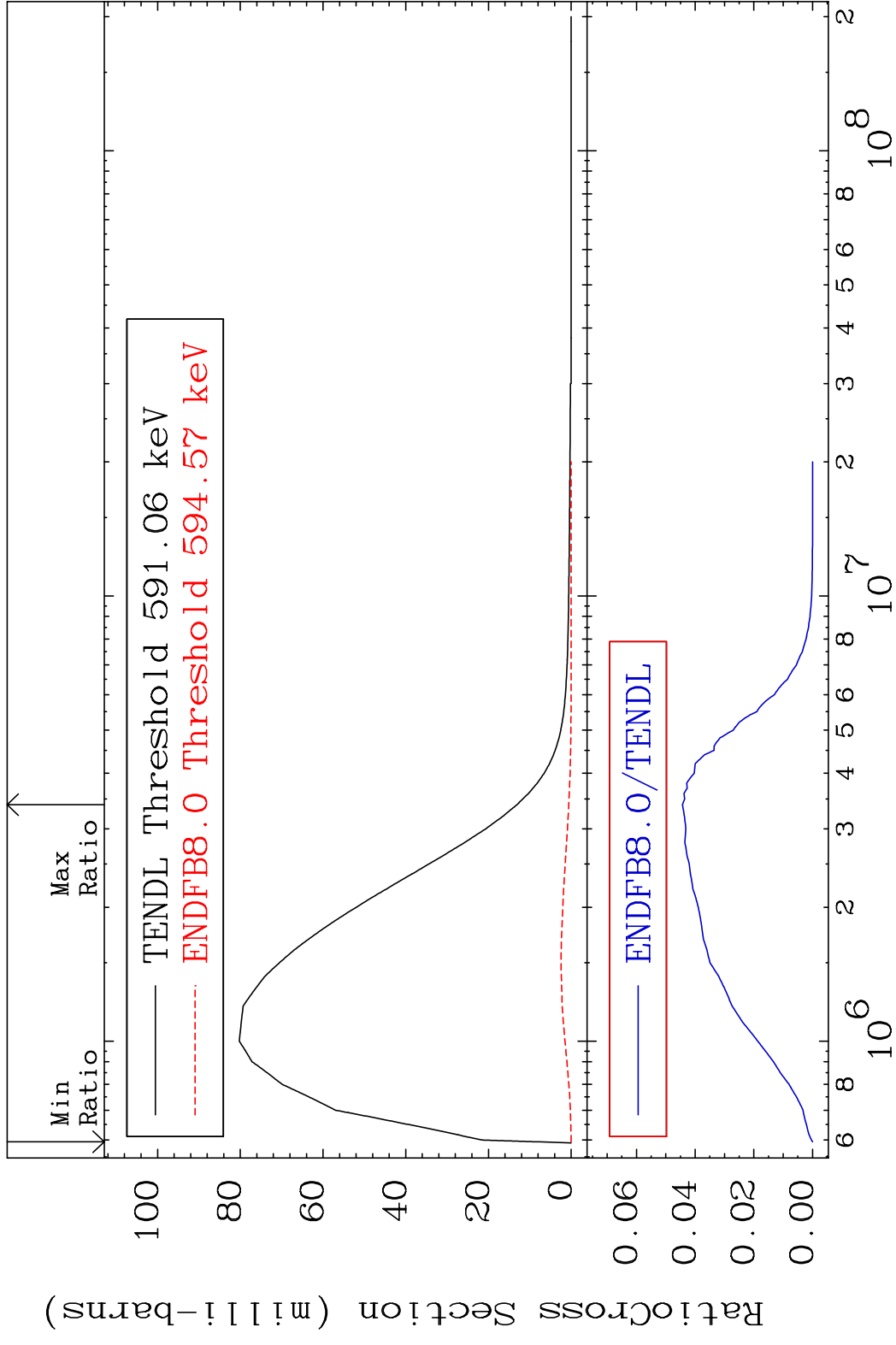
MAT 7725 MT= 61 (n,n') Level 77-Ir-191
 Cross Section -100.0 To -88.79%



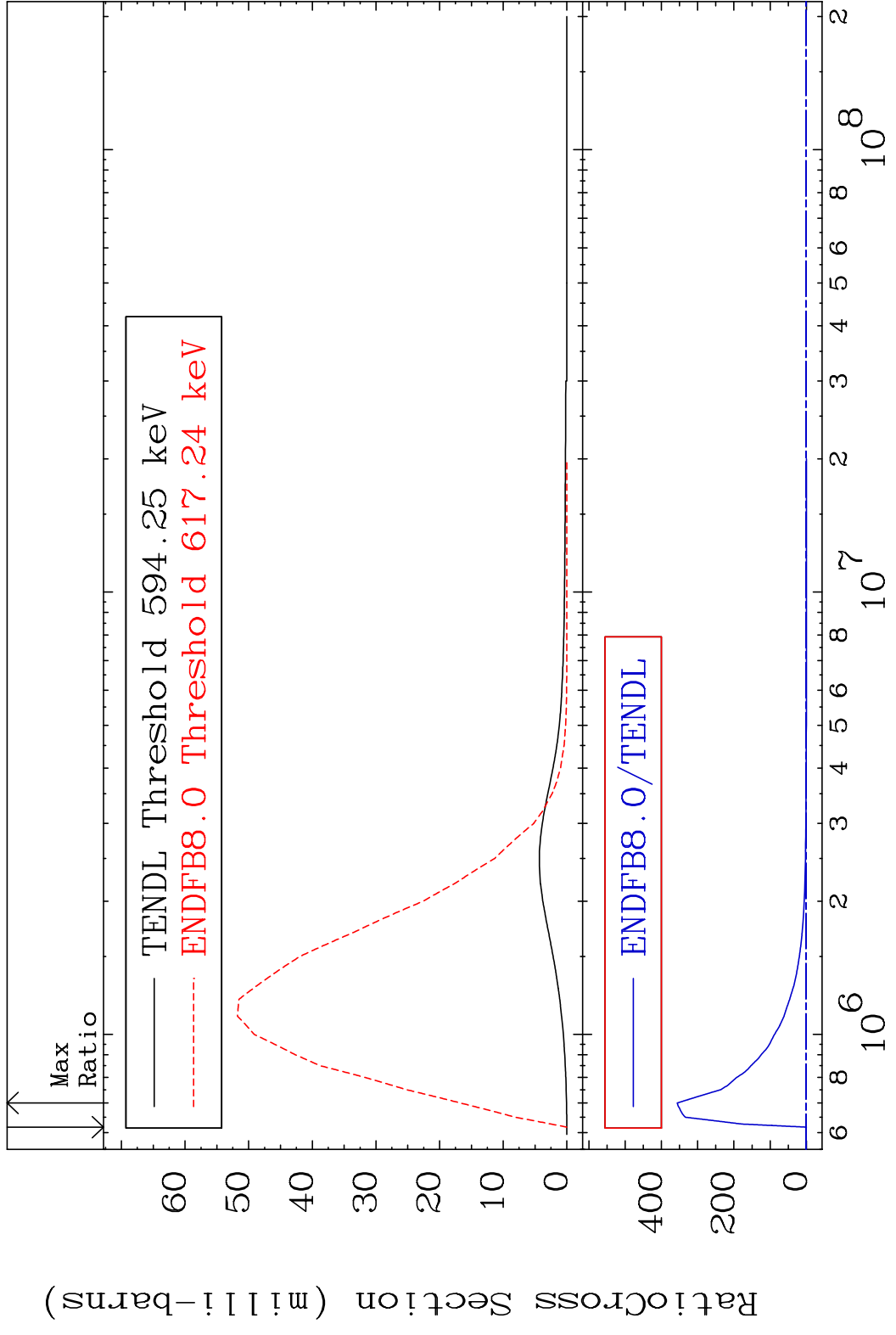
MAT 7725 MT= 62 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 9999. %



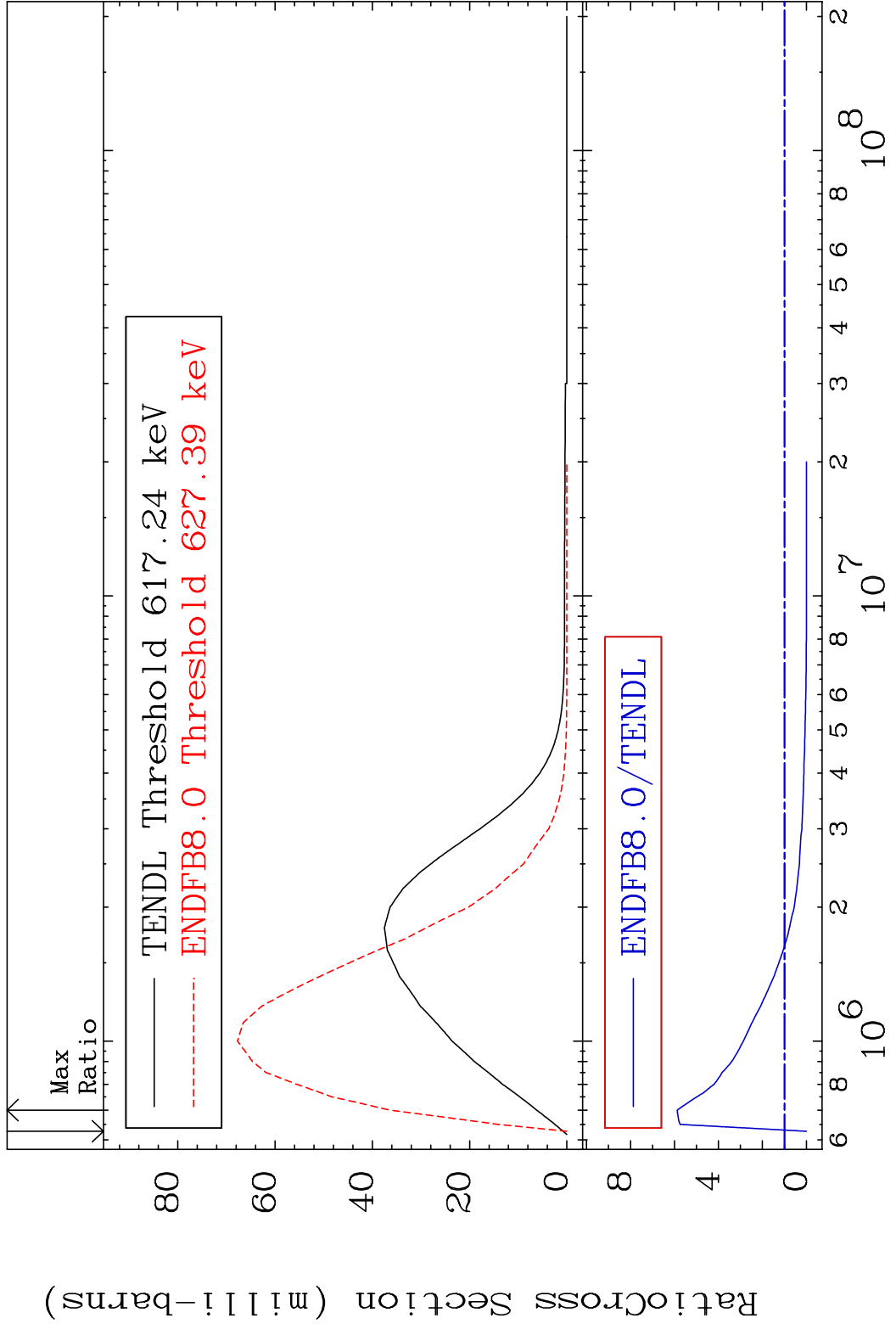
MAT 7725 MT= 63 (n, n') Level 77-Ir-191
 Cross Section -100.0 To -95.56%



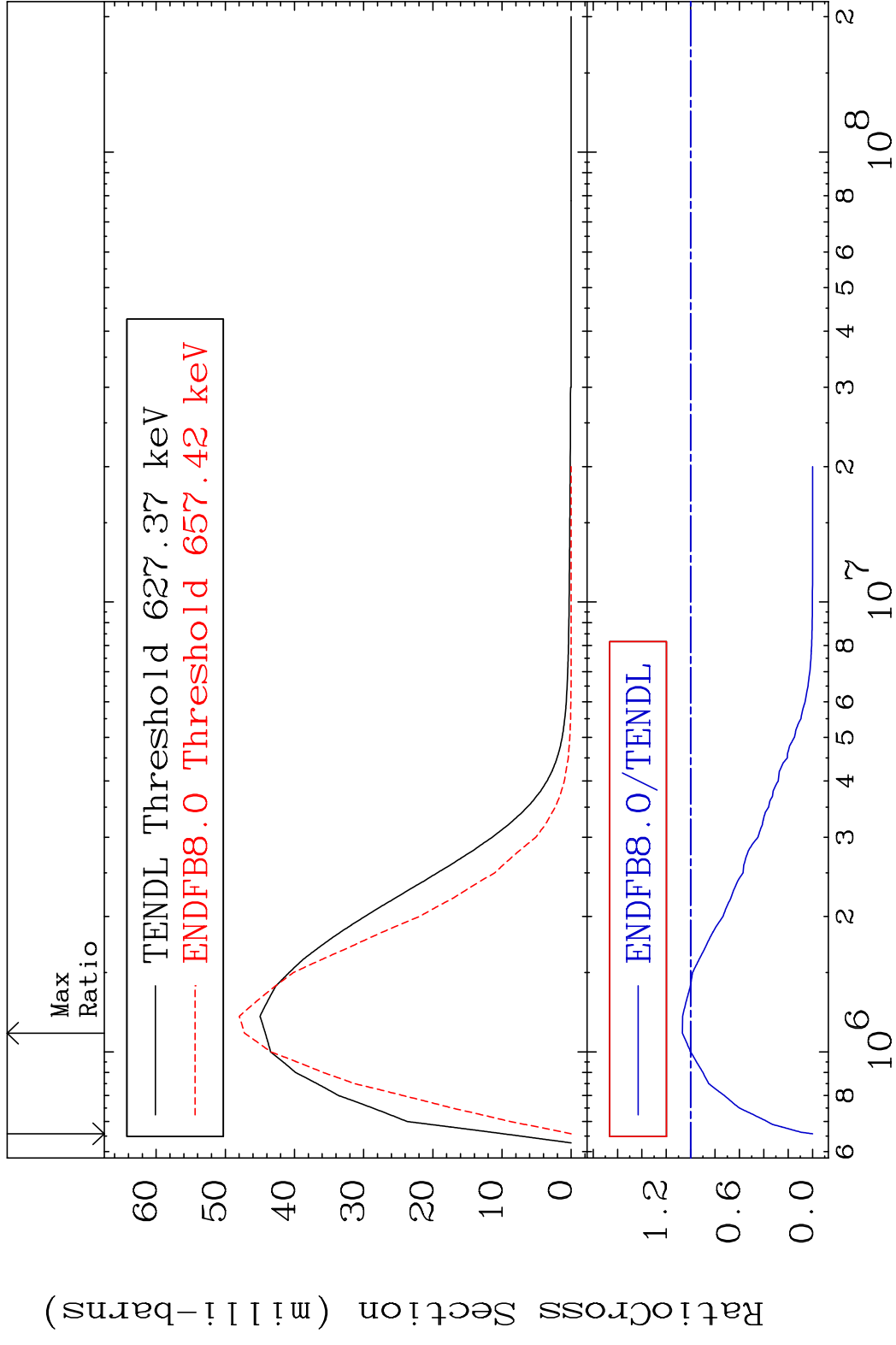
MAT 7725 MT= 64 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 9999. %



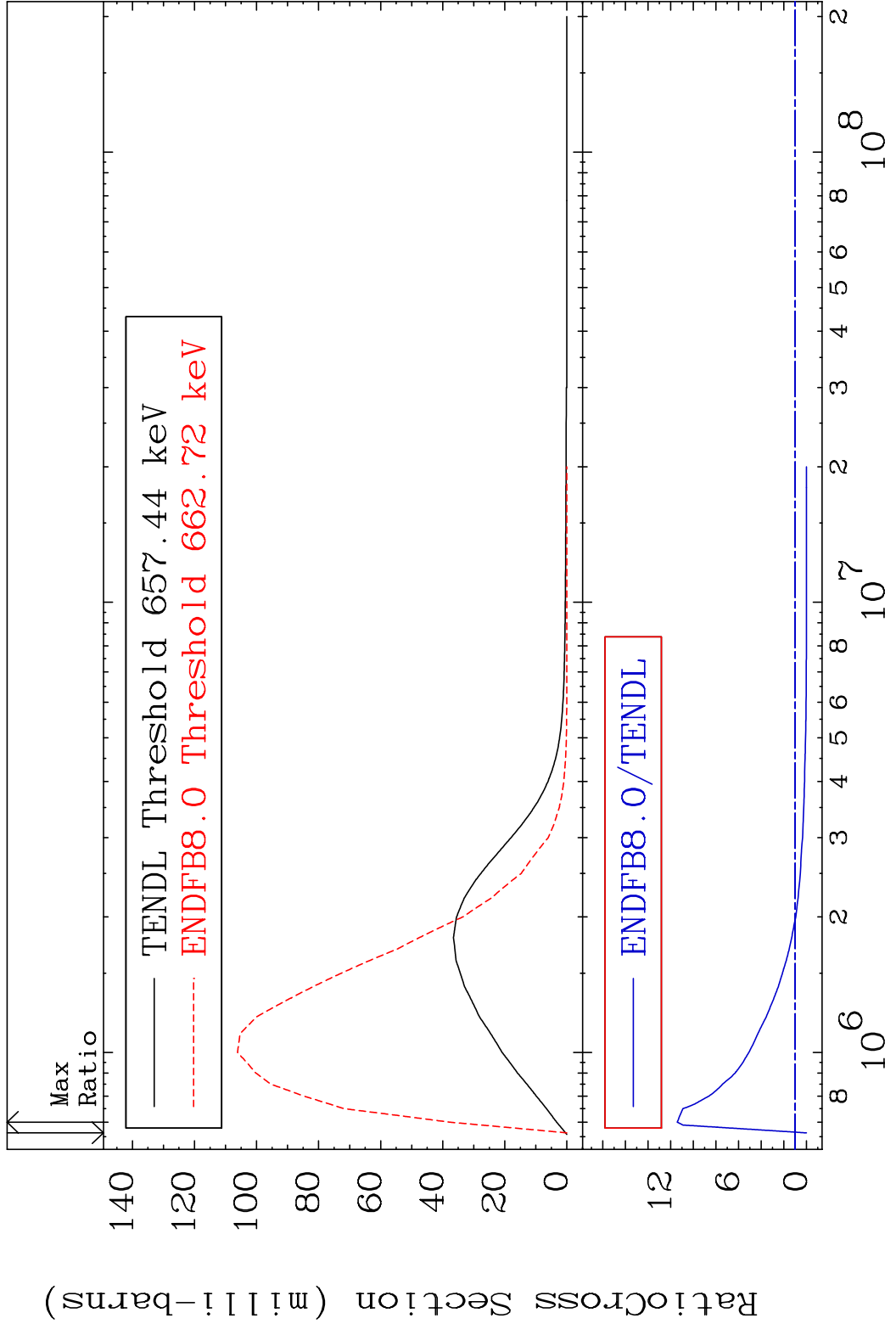
MAT 7725 MT= 65 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 487.7 %



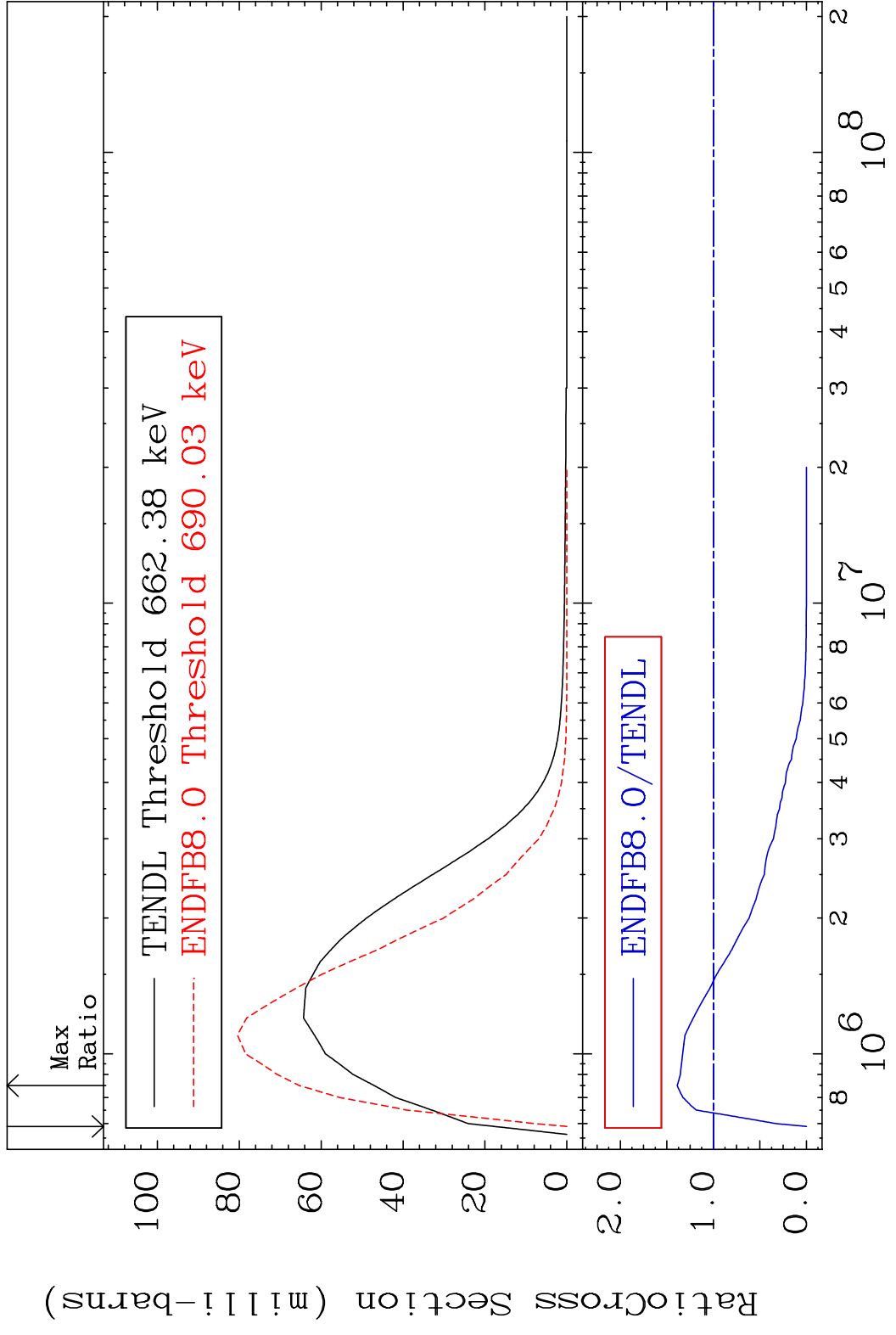
MAT 7725 MT= 66 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 6.807 %



MAT 7725 MT= 67 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 1042. %



MAT 7725 MT= 68 (n,n') Level 77-Ir-191
 Cross Section -100.0 To 38.89 %

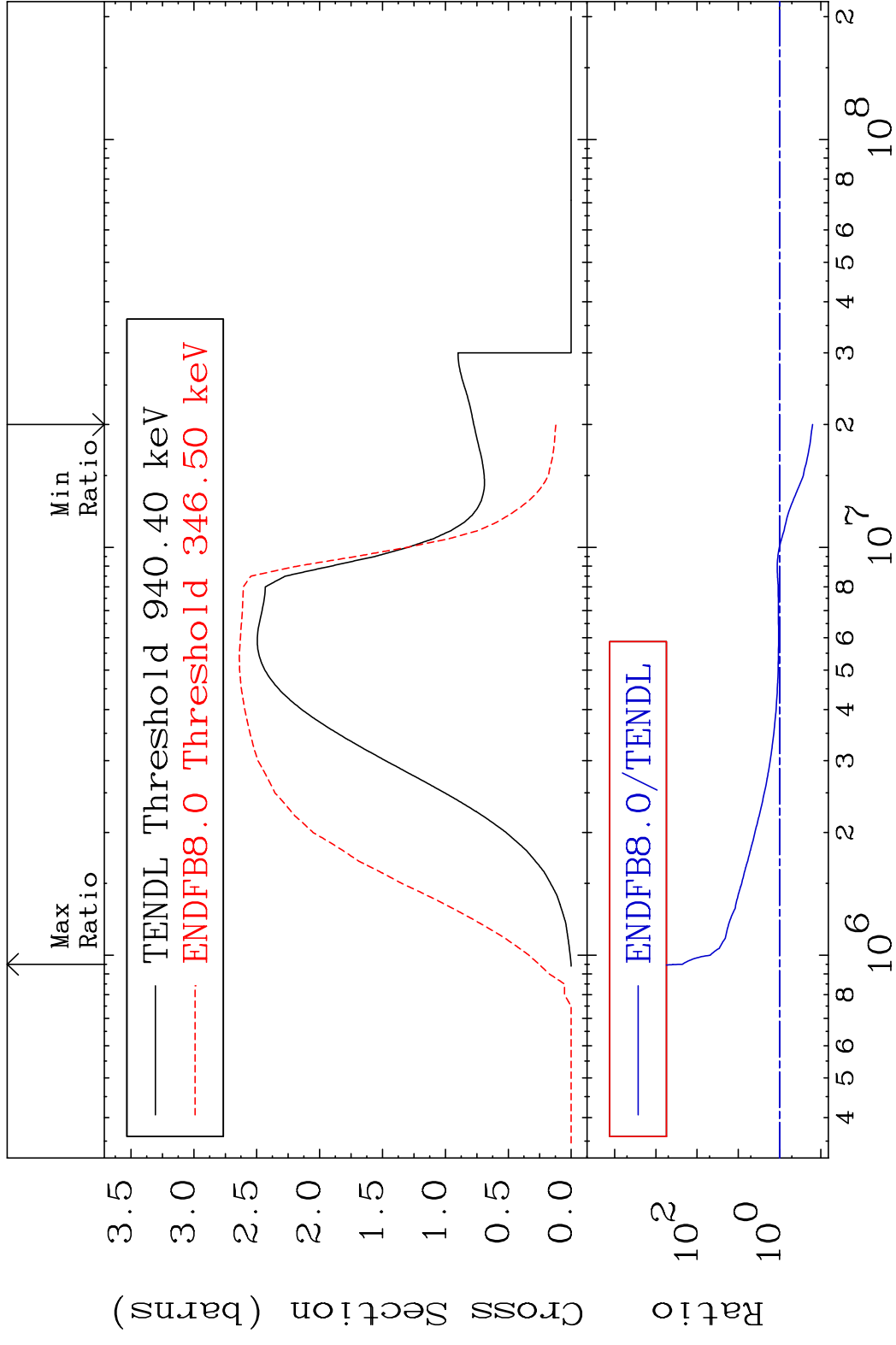


MAT 7725

(n, n') Continuum

77-Ir-191

Cross Section -84.23 To 9999. %

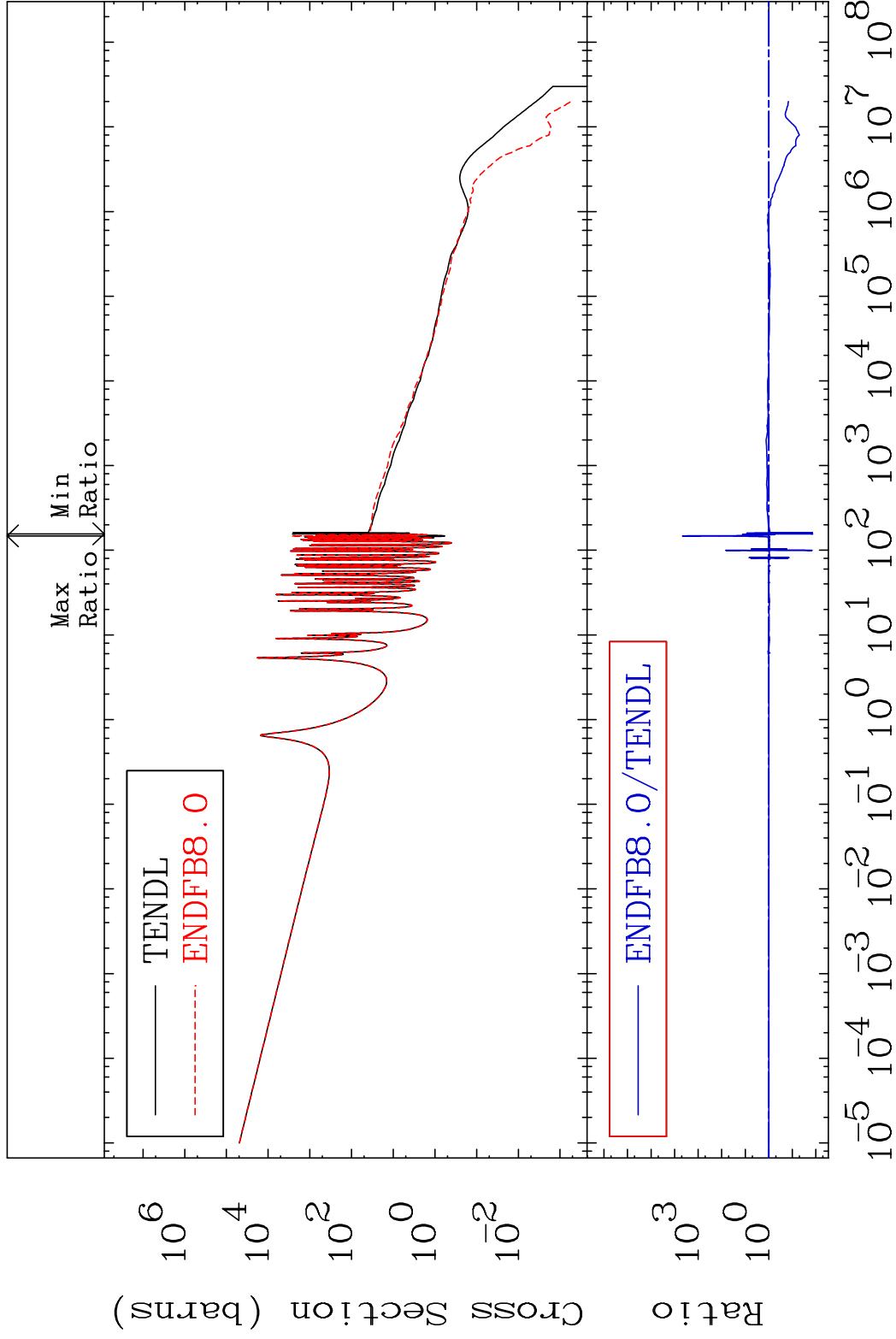


MAT 7725

(n, γ)

77-Ir-191

Cross Section -98.62 To 9999. %



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Incident Energy (eV)

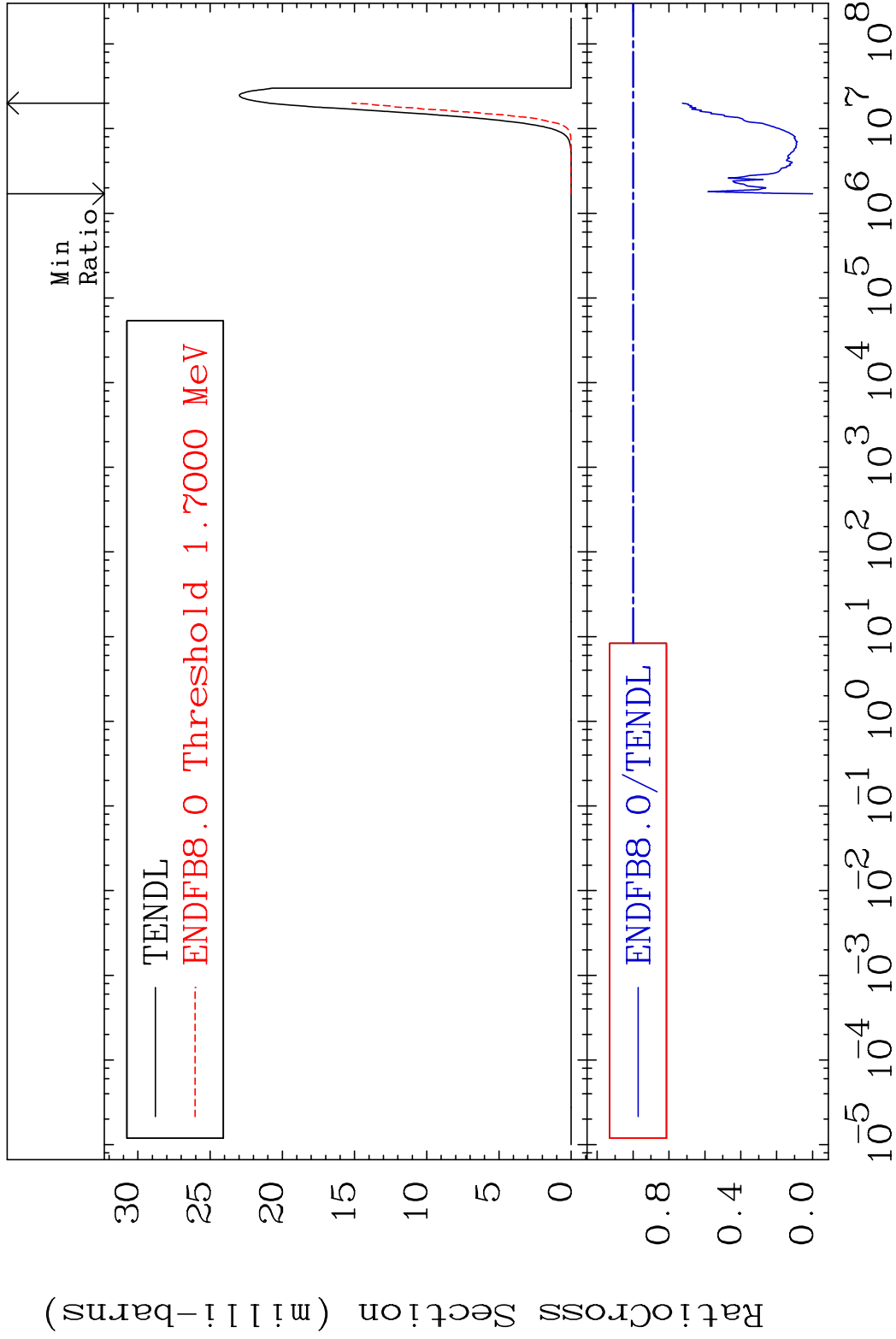
77-Ir-191

MAT 7725

(n, p)

77-Ir-191

Cross Section -100.0 To -27.46%



31

Incident Energy (eV)

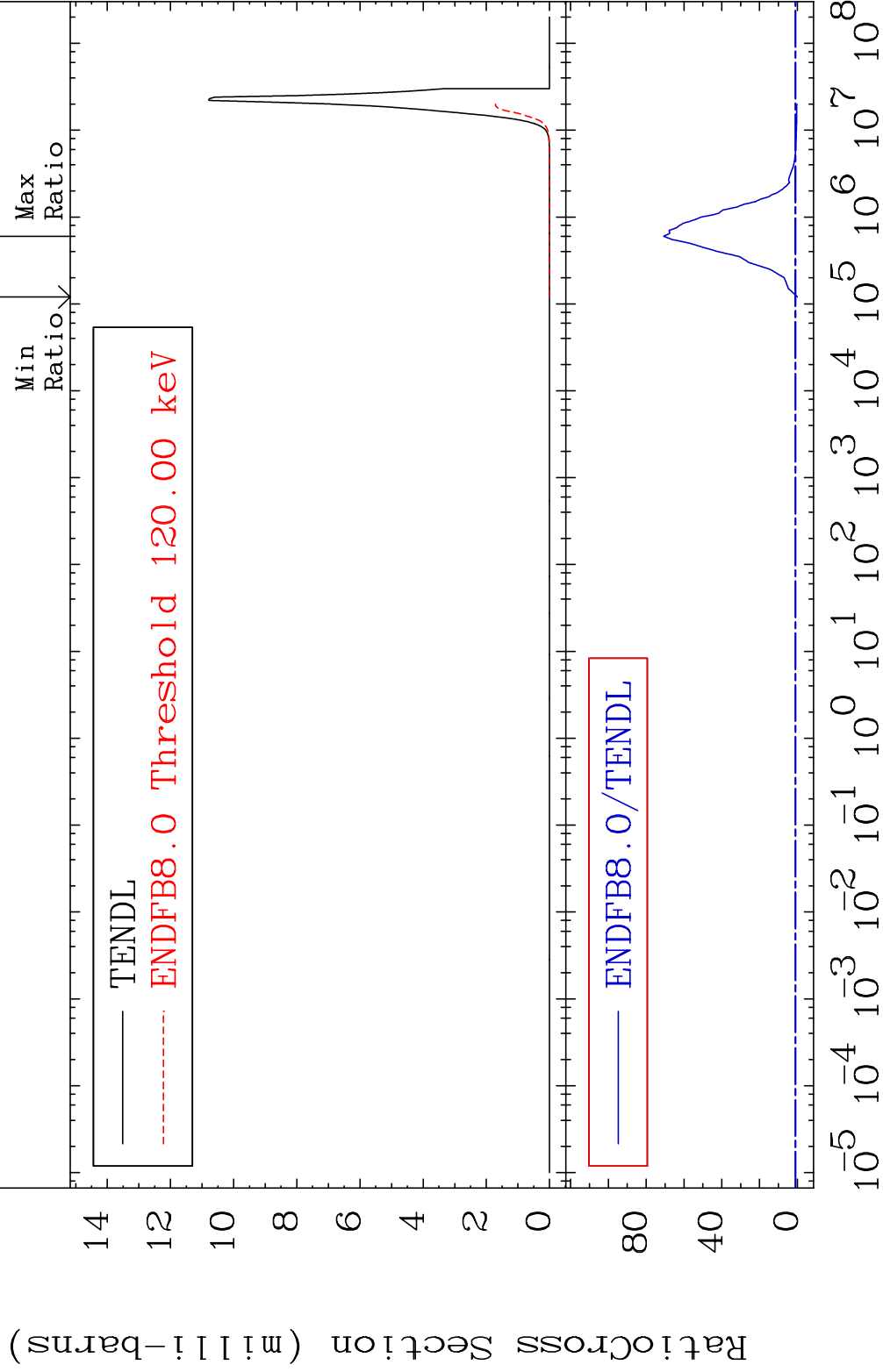
77-Ir-191

MAT 7725

(n, α)

77-Ir-191

Cross Section -100.0 To 6974. %



32

Incident Energy (eV)

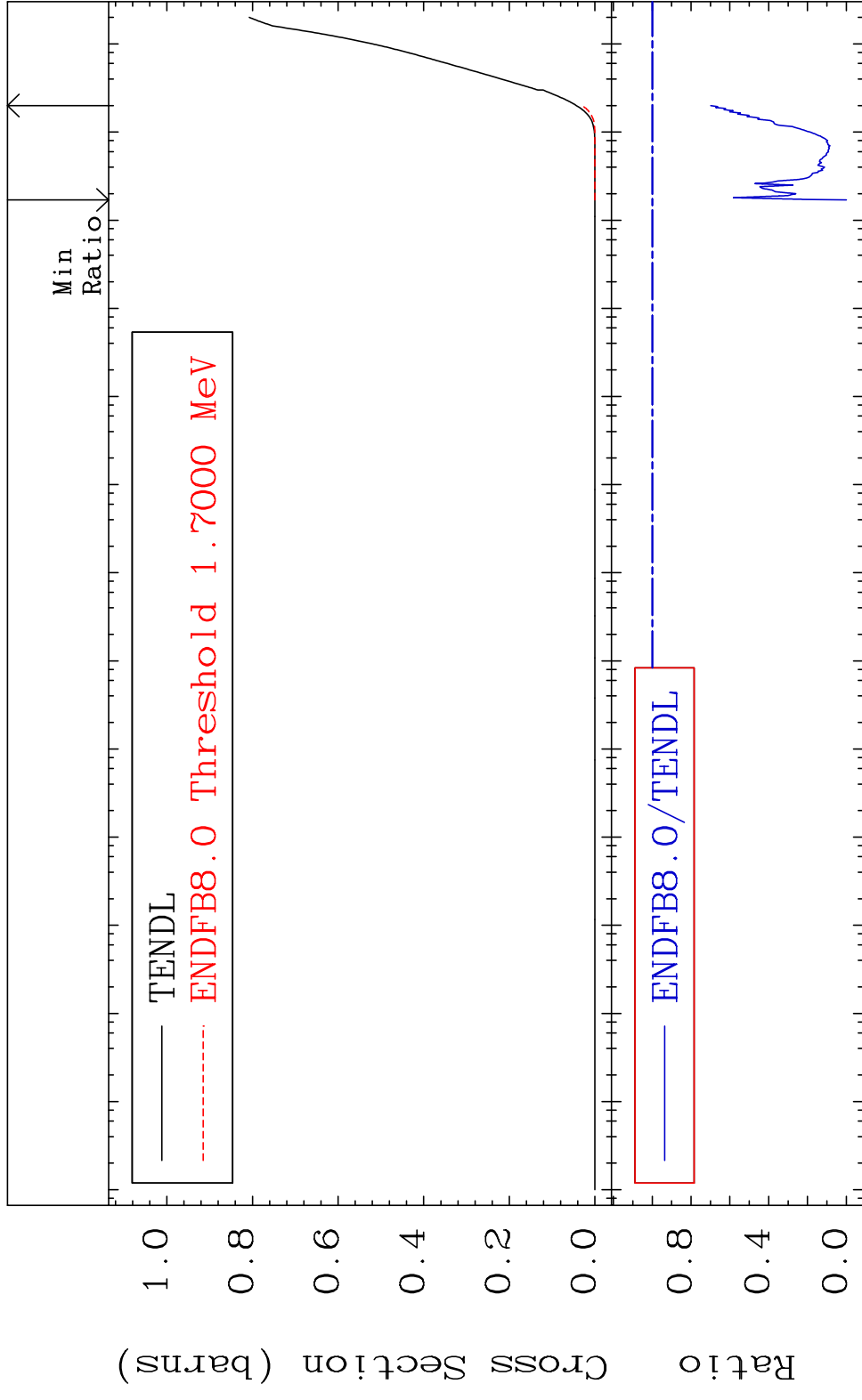
77-Ir-191

MAT 7725

Hydrogen Production

77-Ir-191

Cross Section -100.0 To -30.14%

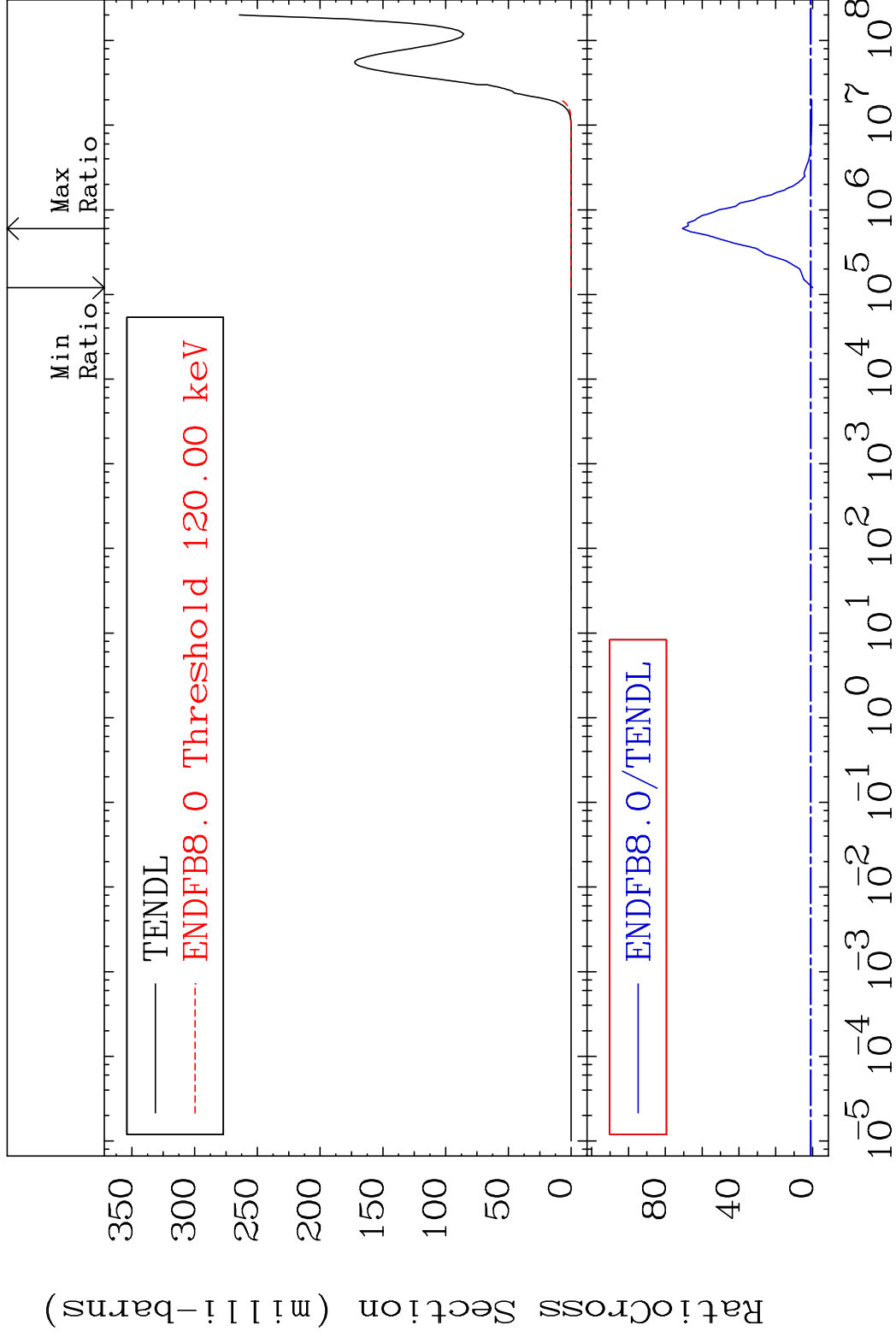


MAT 7725

He-4 Production

77-Ir-191

Cross Section -100.0 To 6974. %

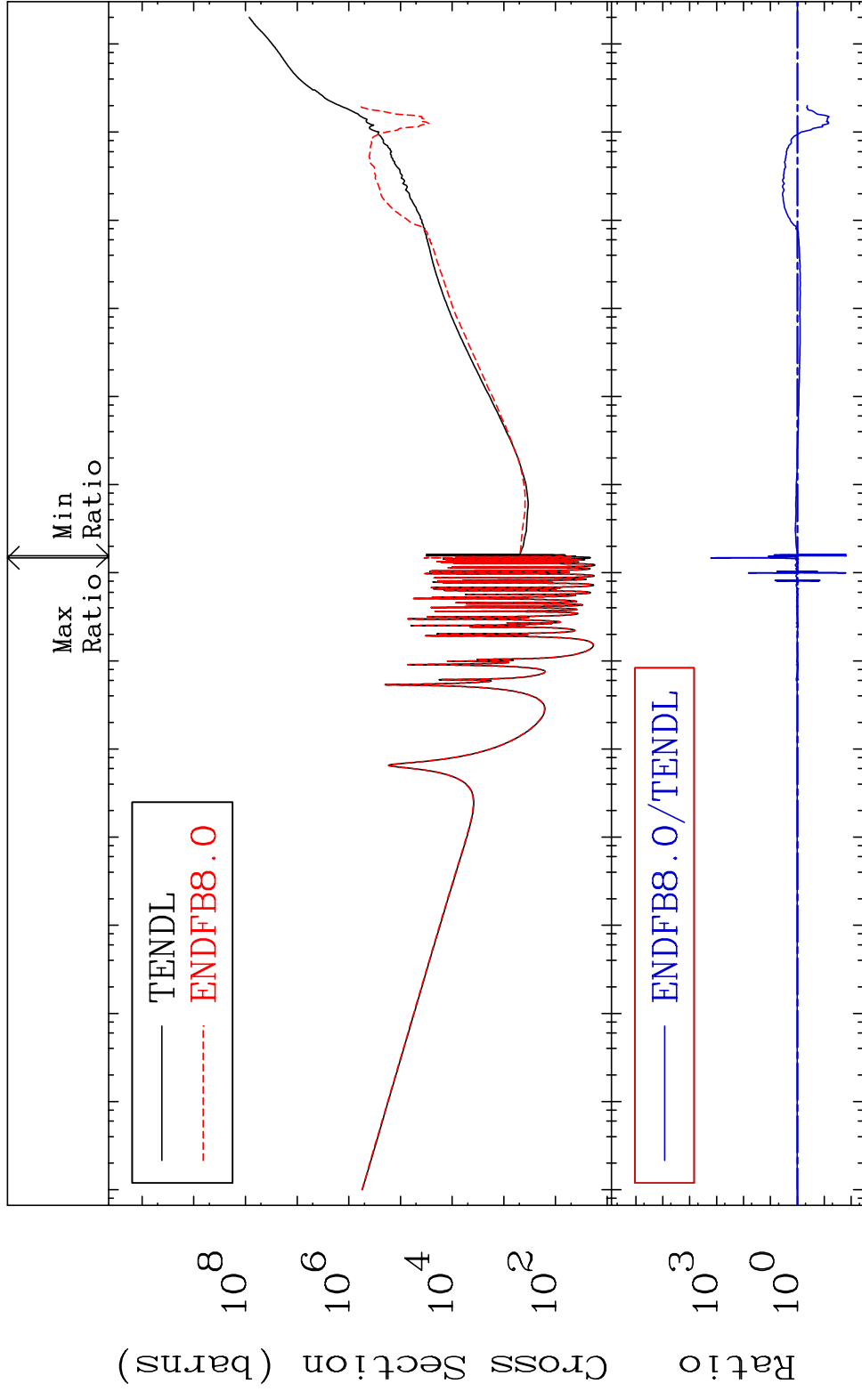


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Incident Energy (eV)

77-Ir-191

MAT 7725 Kerma total (eV-barns) 77-Ir-191
 Cross Section -98.48 To 9999. %

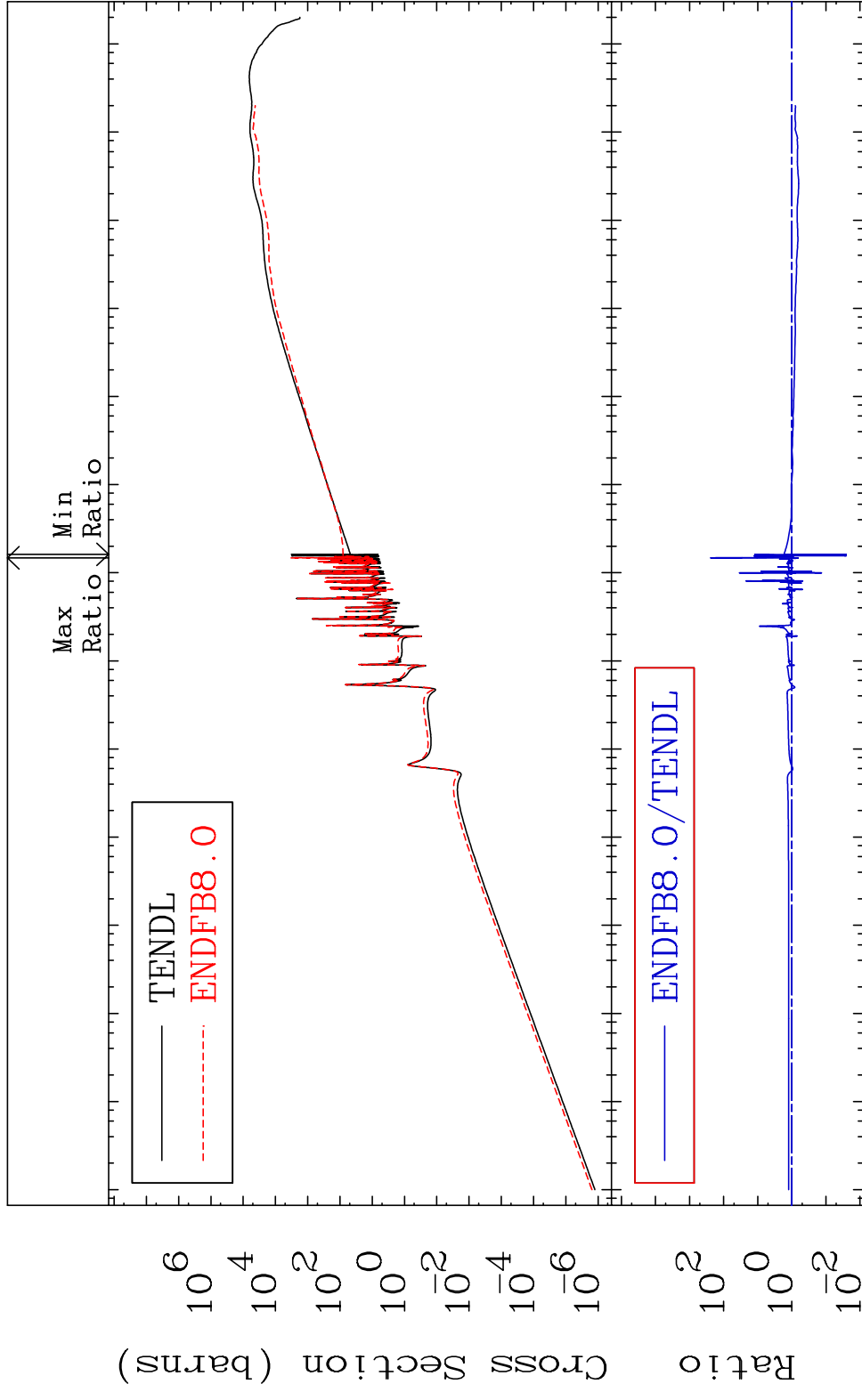


Ratio
 10³
 10⁰
 10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

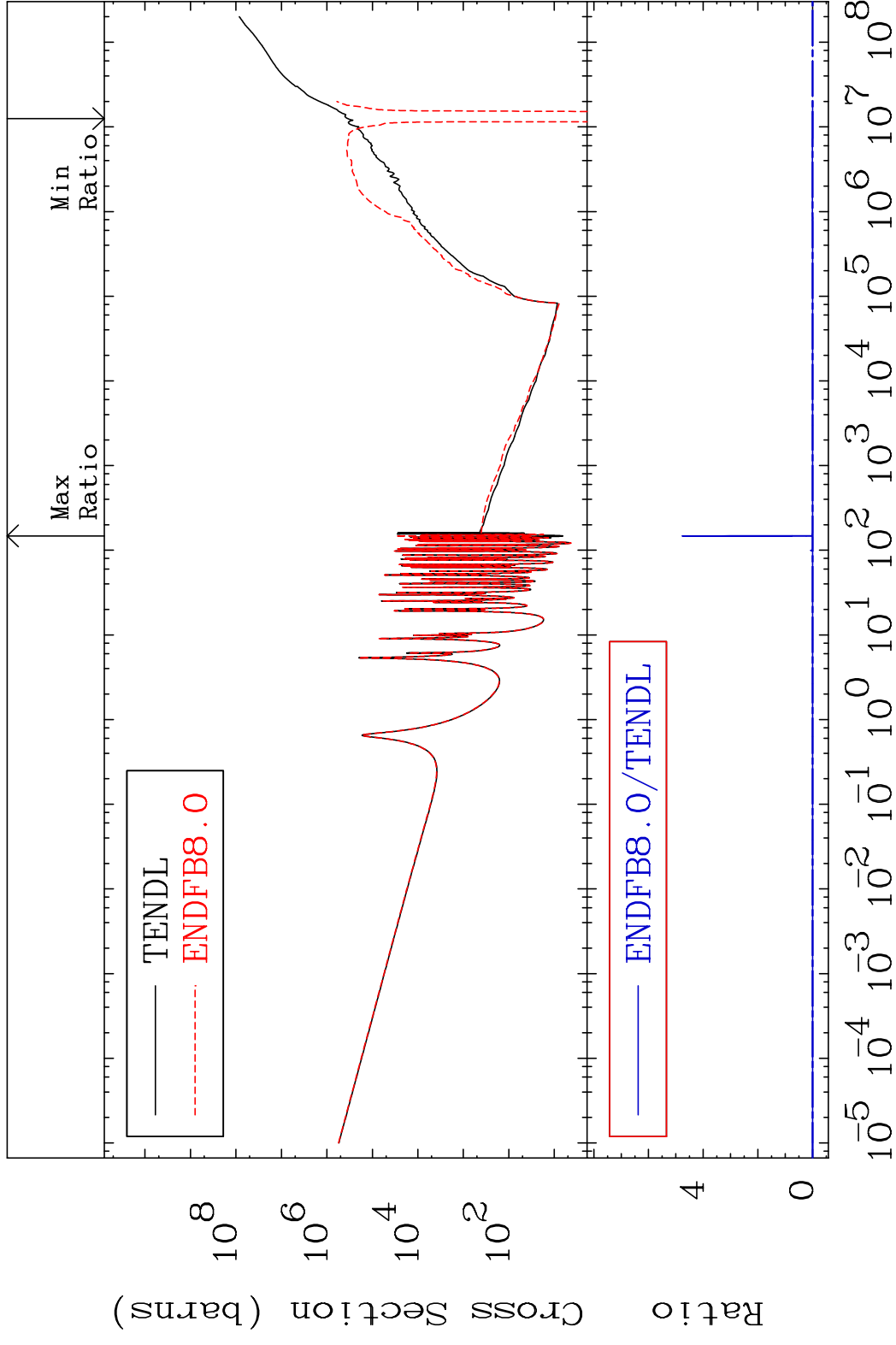
MAT 7725

Kerma elastic
Cross Section

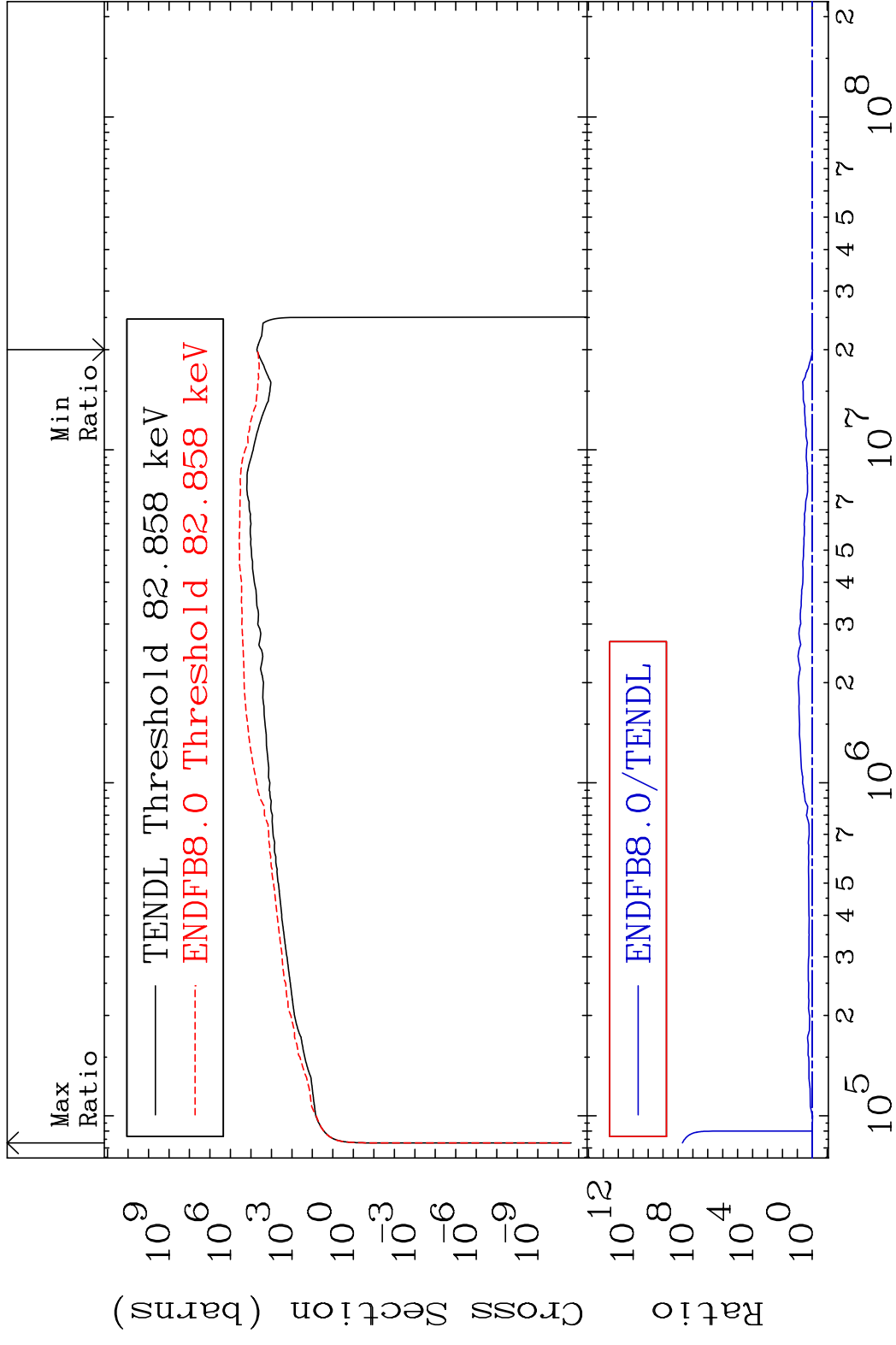
77-Ir-191
-97.48 To 9999. %



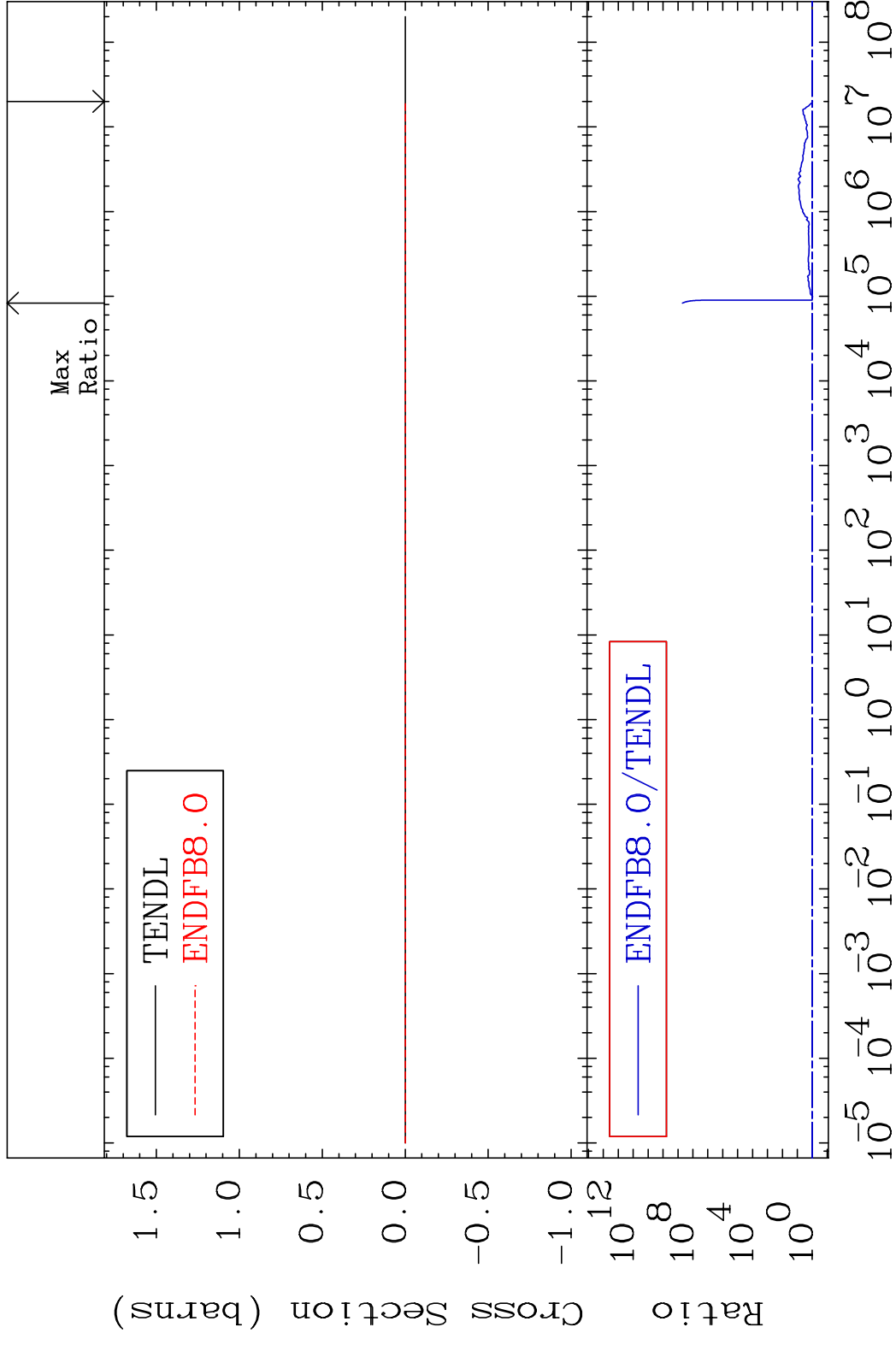
MAT 7725 Kerma non-elastic (all but mt2) 77-Ir-191
 Cross Section -105.6 To 9999. %



MAT 7725 Kerma inelastic (mt51-91) 77-Ir-191
 Cross Section -4.831 To 9999. %

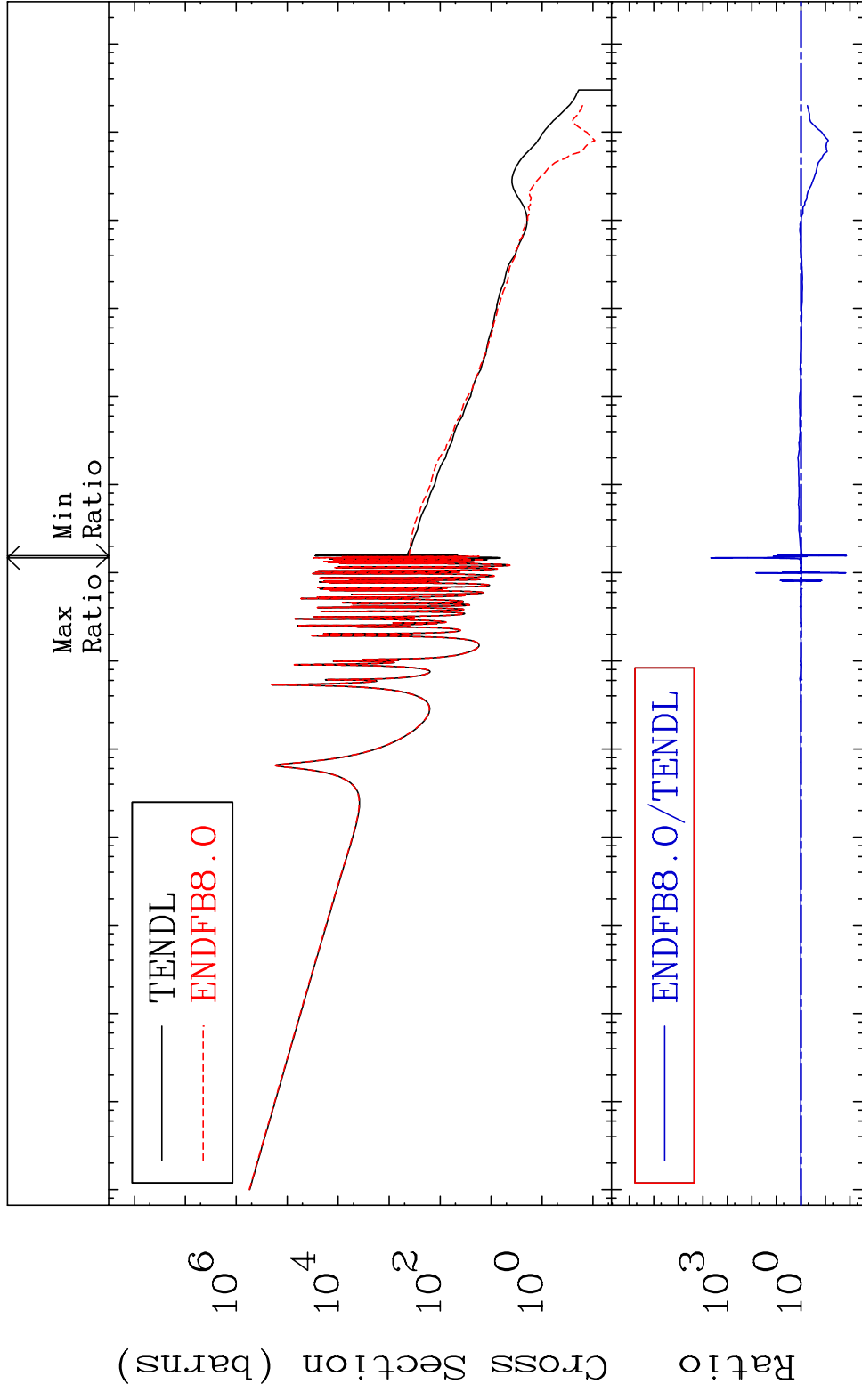


MAT 7725 Kerma fission (mt18 or mt19-20-21-38)77-Ir-191
 Cross Section -4.831 To 9999. %



MAT 7725

Kerma capture (mt102) 77-Ir-191
Cross Section -98.59 To 9999. %



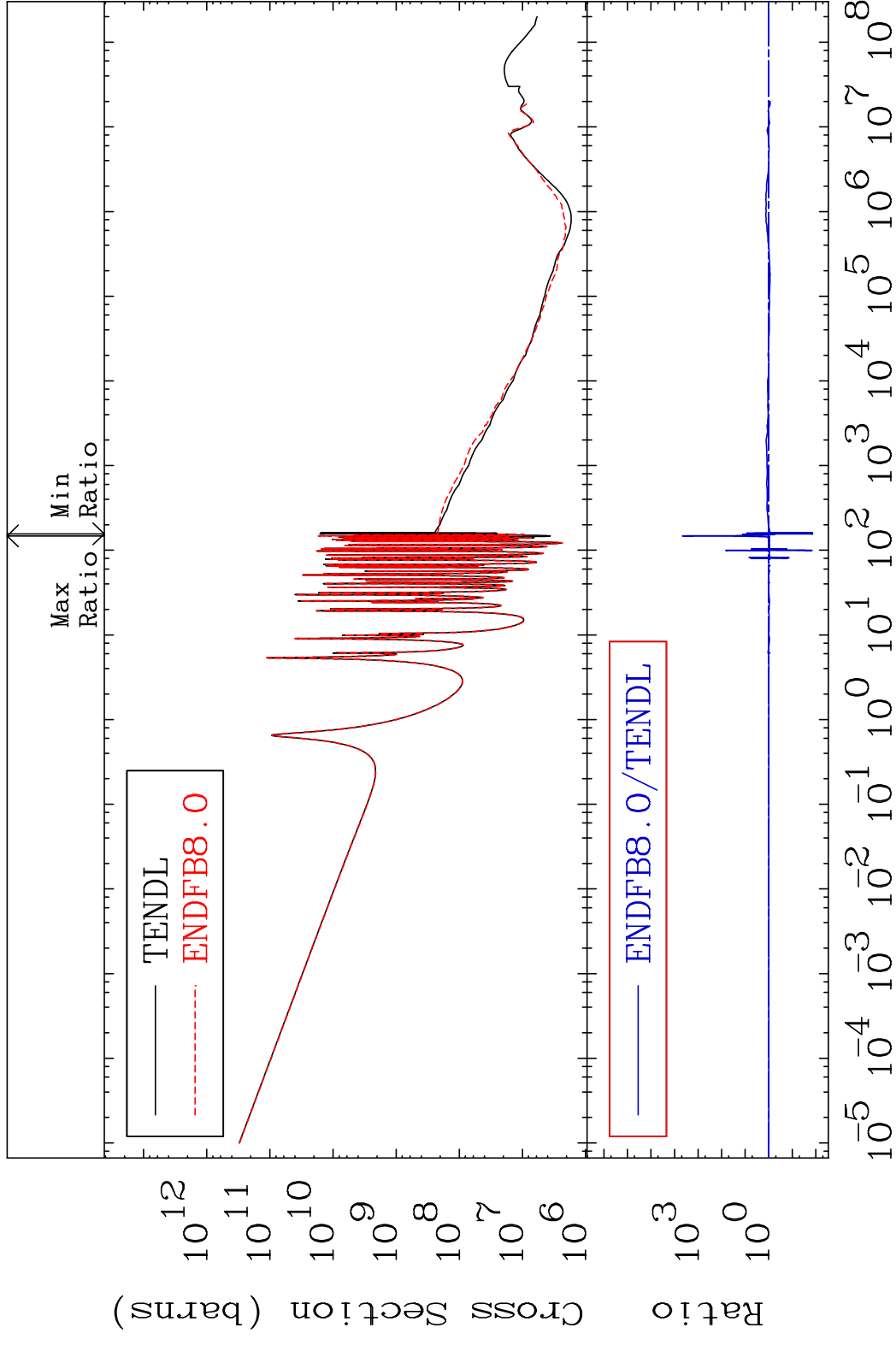
10⁶
10⁴
10²
10⁰
Ratio
10³
10⁰
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

40

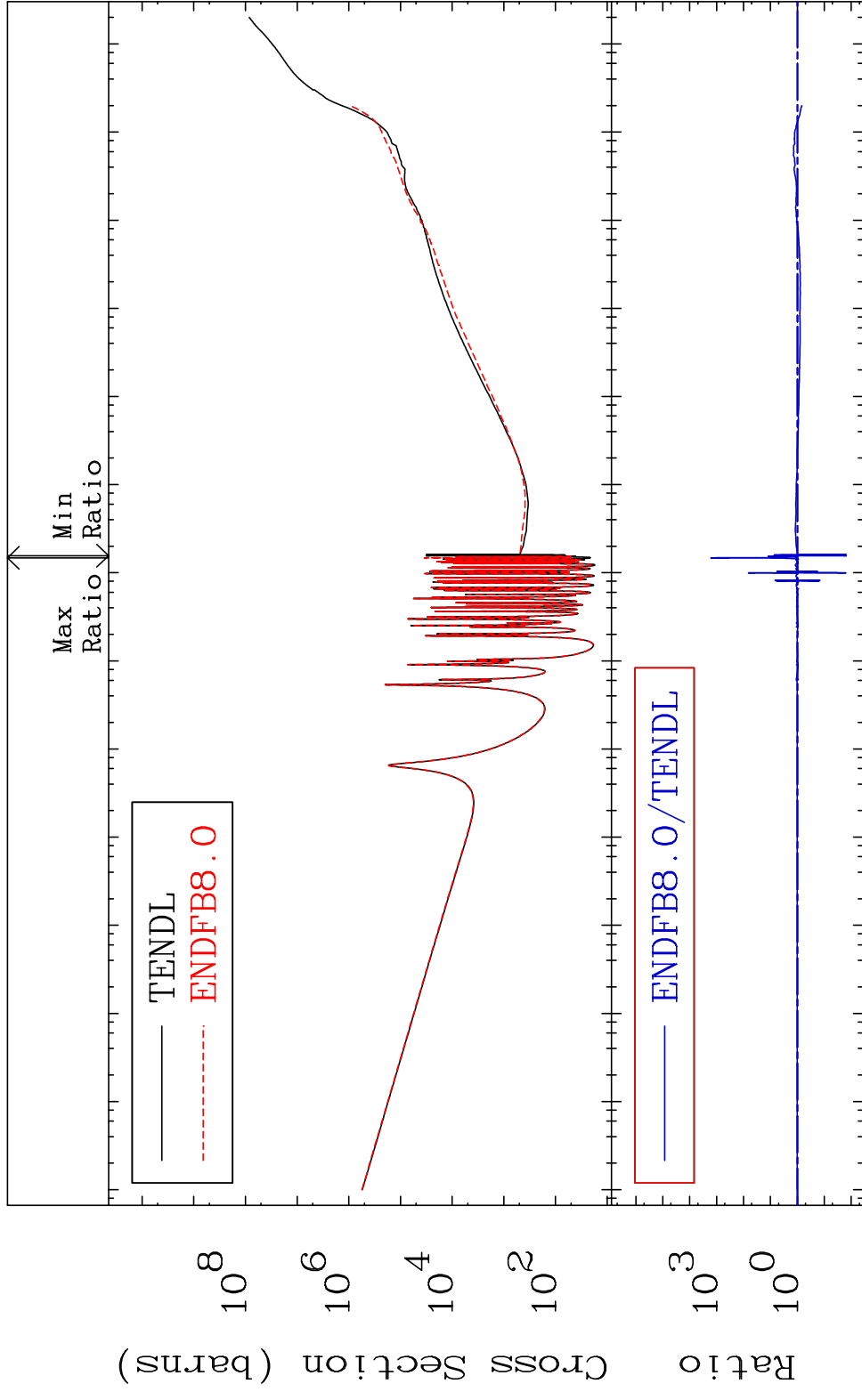
Incident Energy (eV)

77-Ir-191

MAT 7725 Total photon (eV-barns) 77-Ir-191
 Cross Section -98.63 To 9999. %



MAT 7725 Total kinematic kerma (high limit) 77-Ir-191
 Cross Section -98.48 To 9999. %

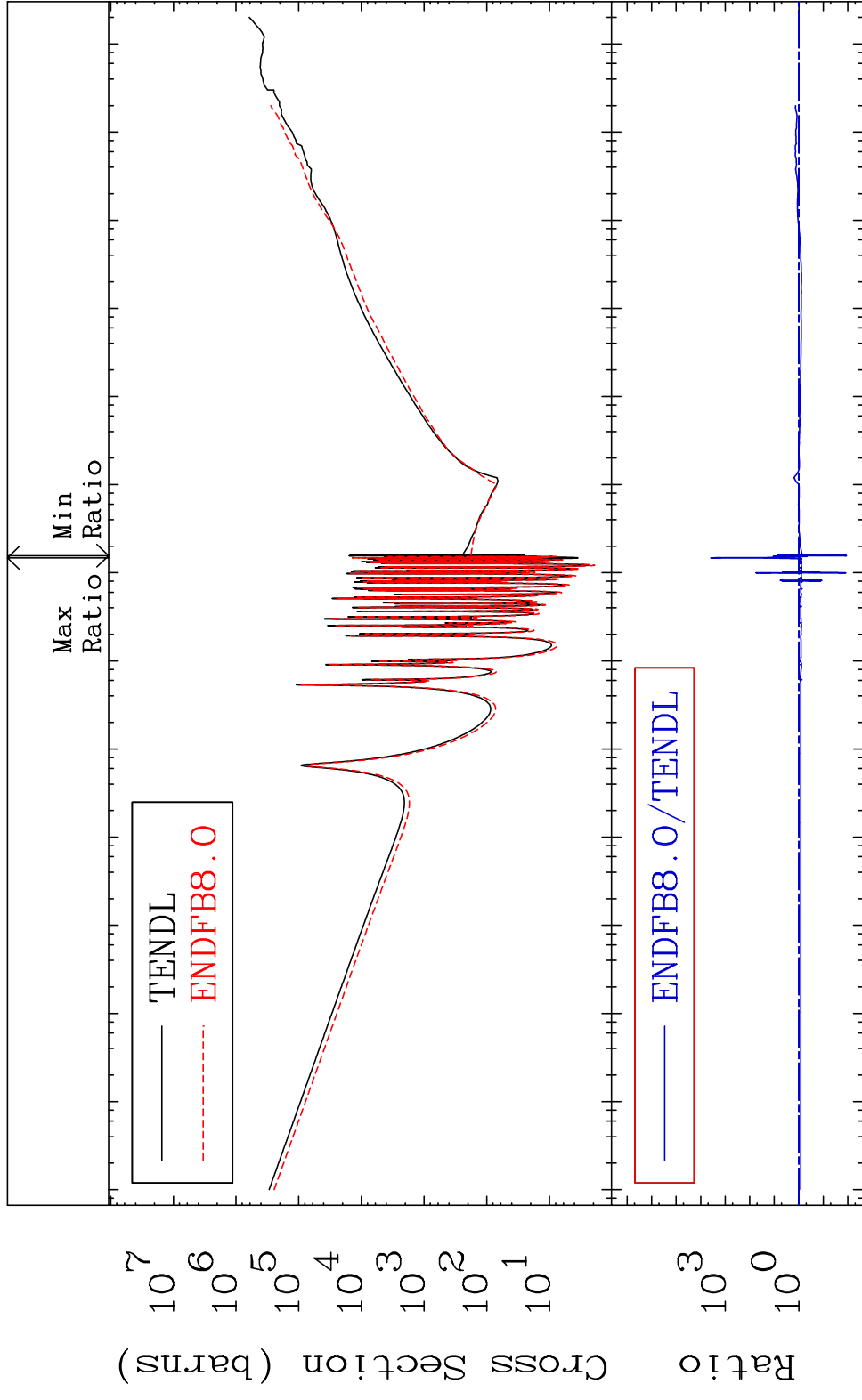


MAT 7725

Dpa total (eV-barns)

77-Ir-191

Cross Section -98.85 To 9999. %



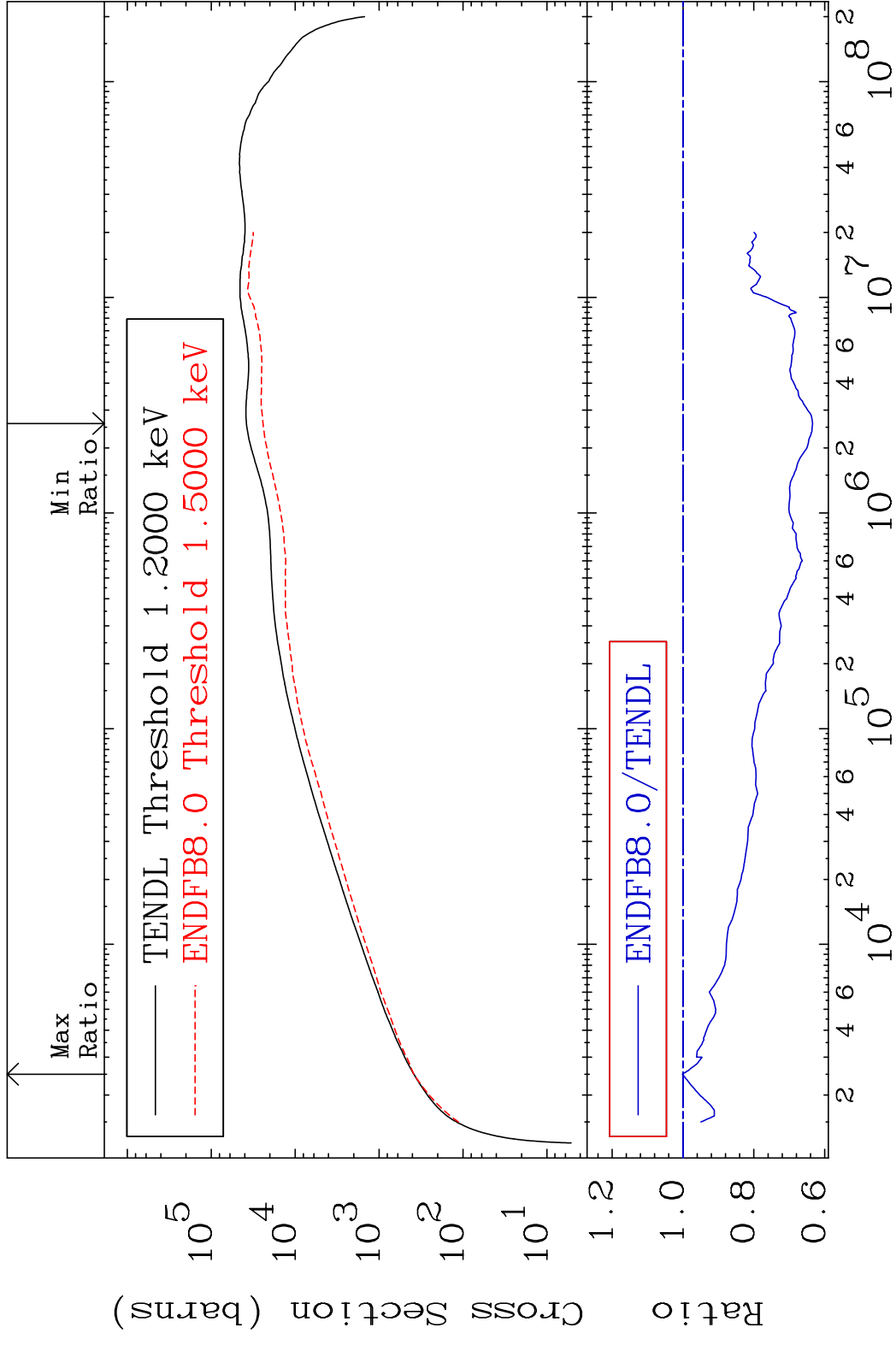
MAT 7725

Dpa elastic (mt2)

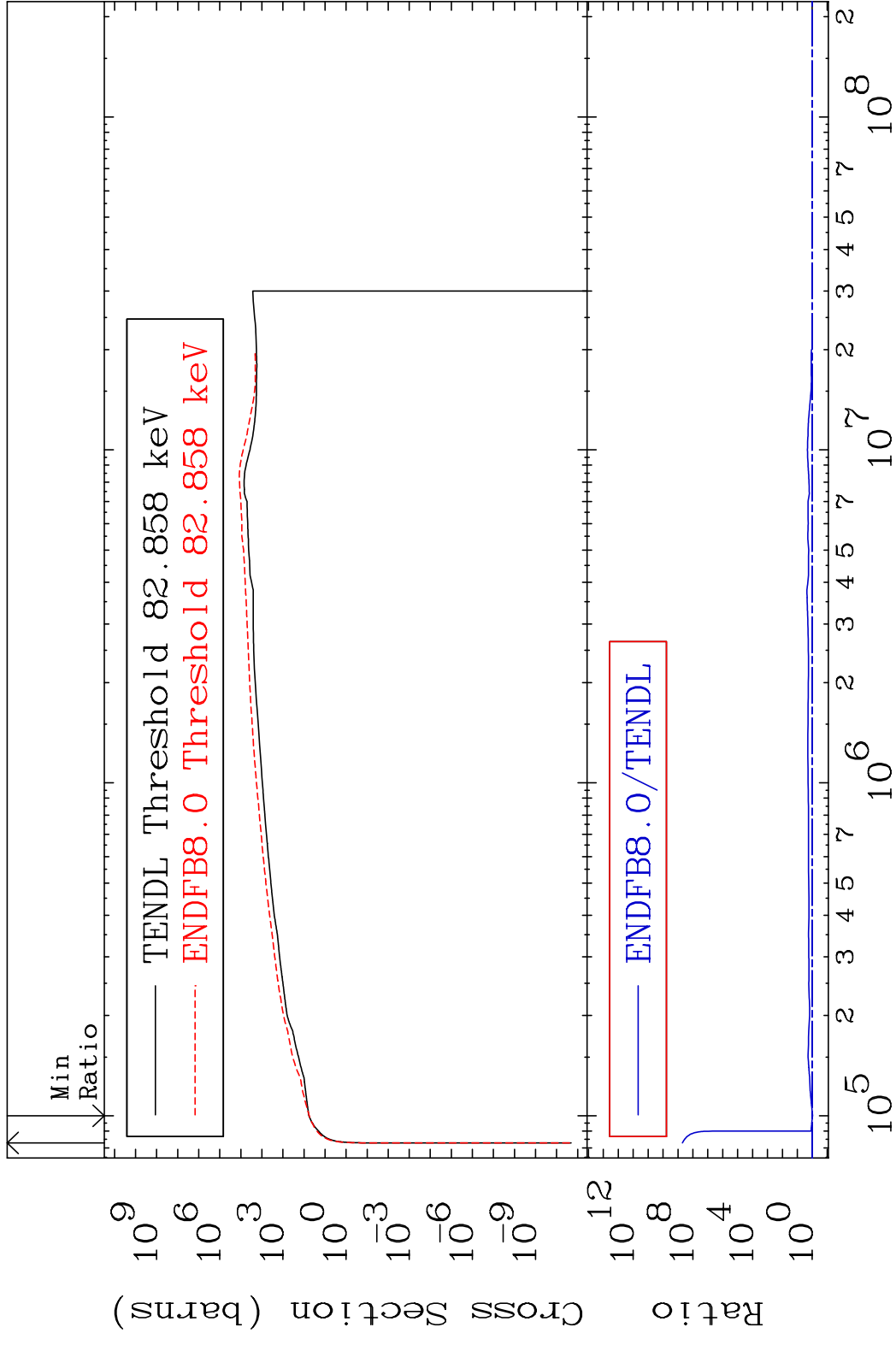
77-Ir-191

Cross Section

-36.56 To 0.173 %

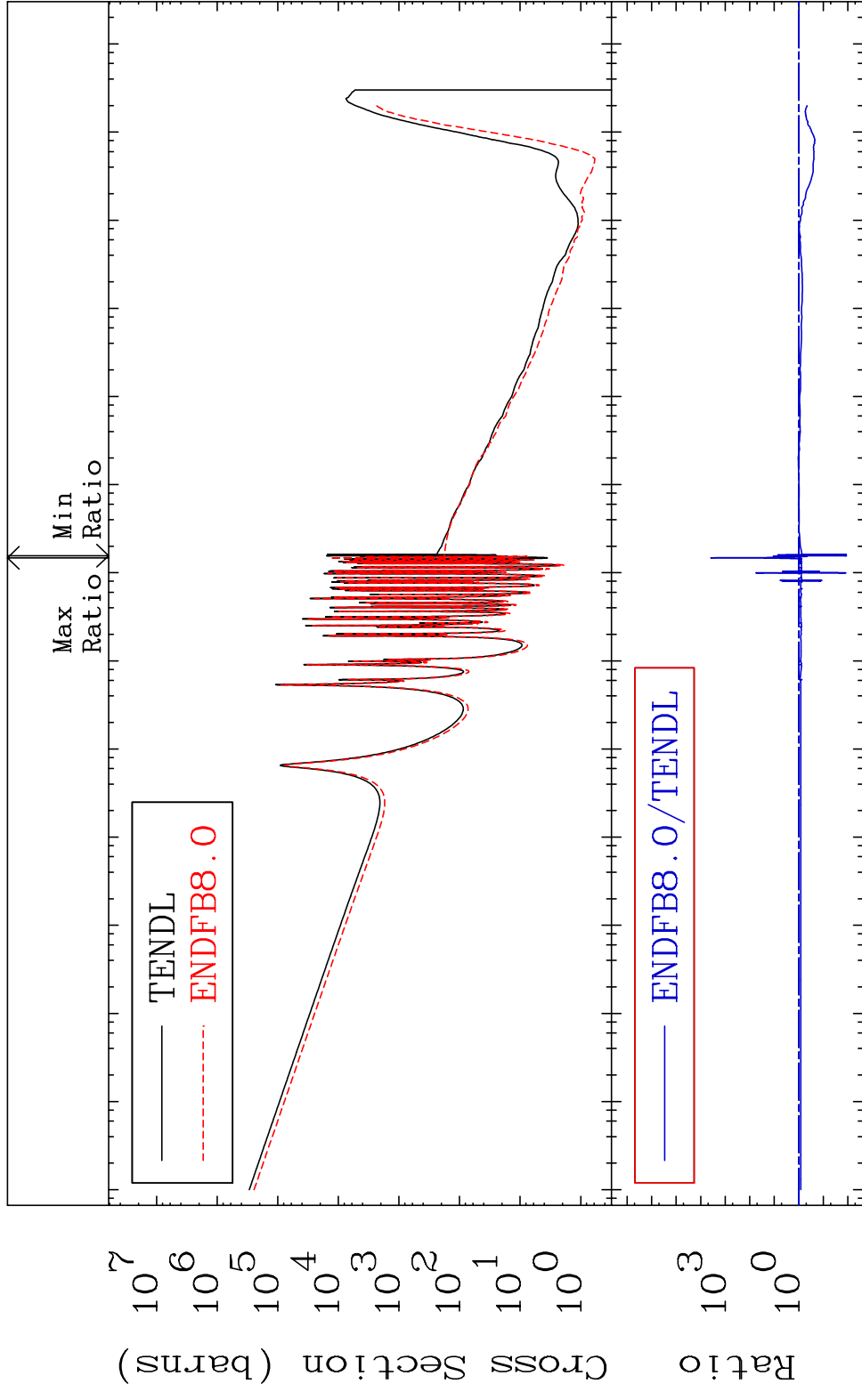


MAT 7725 Dpa inelastic (mt51-91) 77-Ir-191
 Cross Section -4.549 To 9999. %

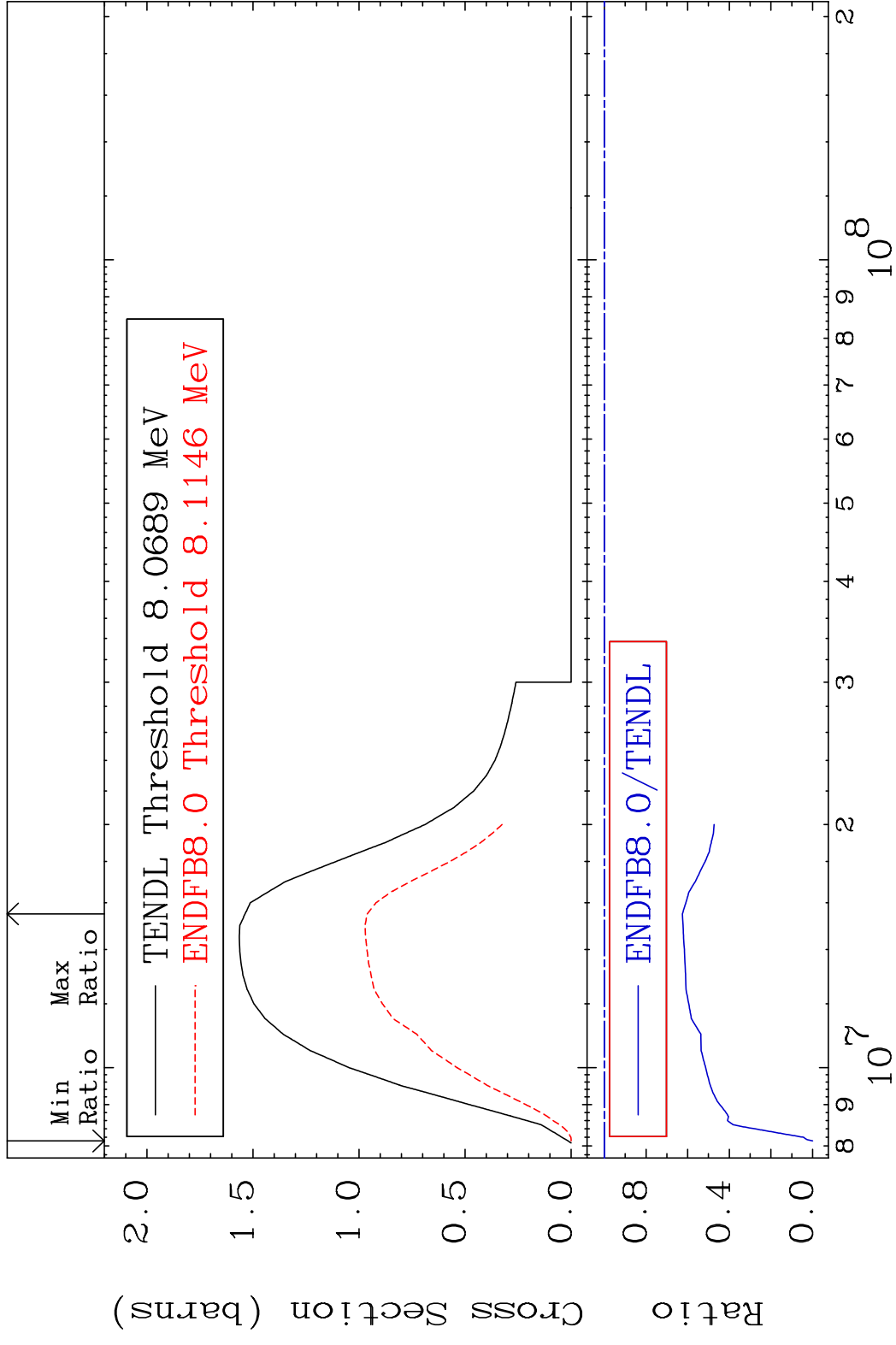


45 Incident Energy (eV) 77-Ir-191

MAT 7725 Dpa disappearance (mt102 -120) 77-Ir-191
 Cross Section -98.85 To 9999. %



MAT 7725 (n,2n):77-Ir-190g 77-Ir-191
 Radionuclide Production Cross Section Ratio -37.44%



MAT 7725 (n,2n):77-Ir-190m2 77-Ir-191
 Radionuclide Production Cross Section 470.8 %

