

Program Complot
(Version 2021-1)

by

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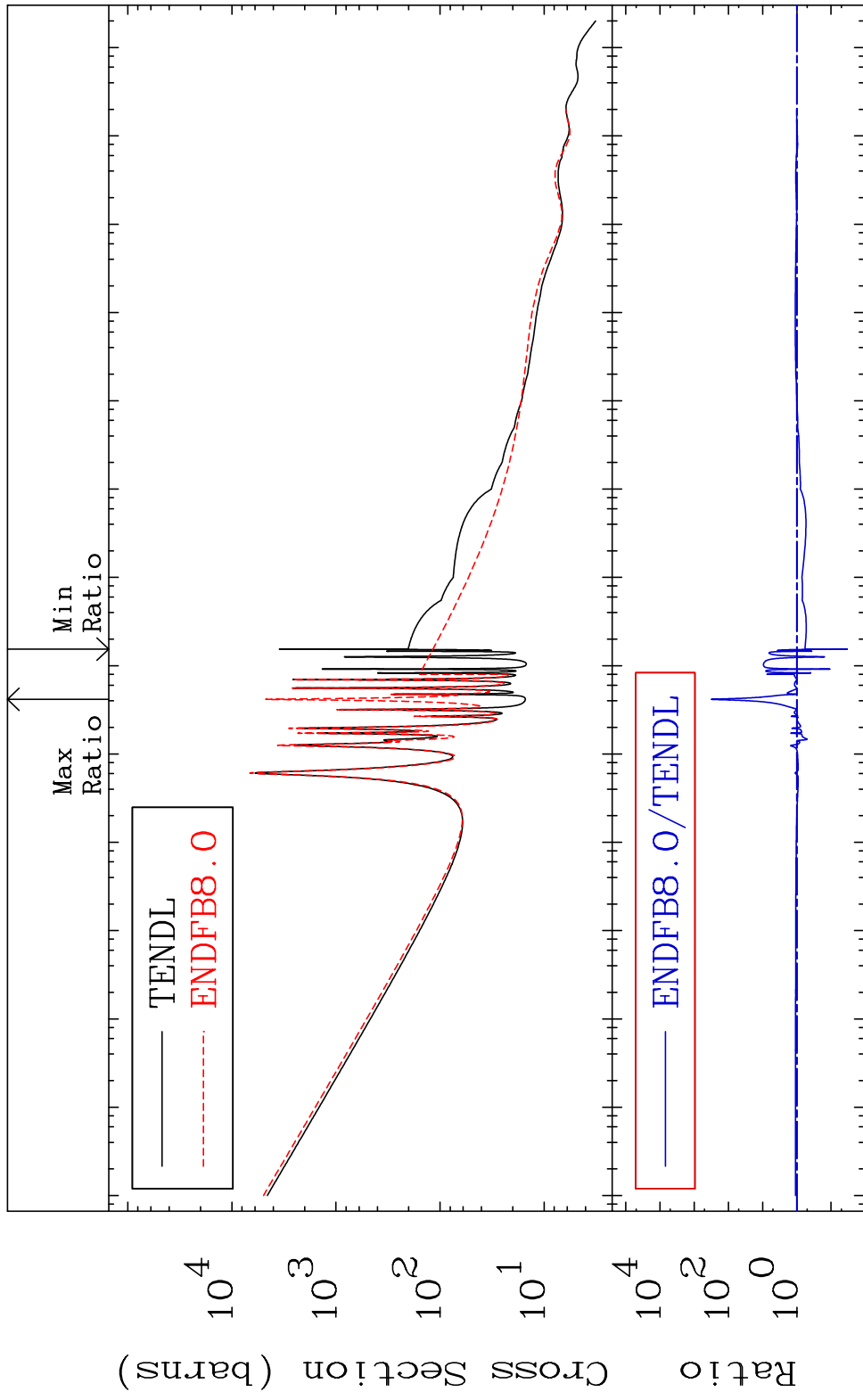
Tele: 925-443-1911

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

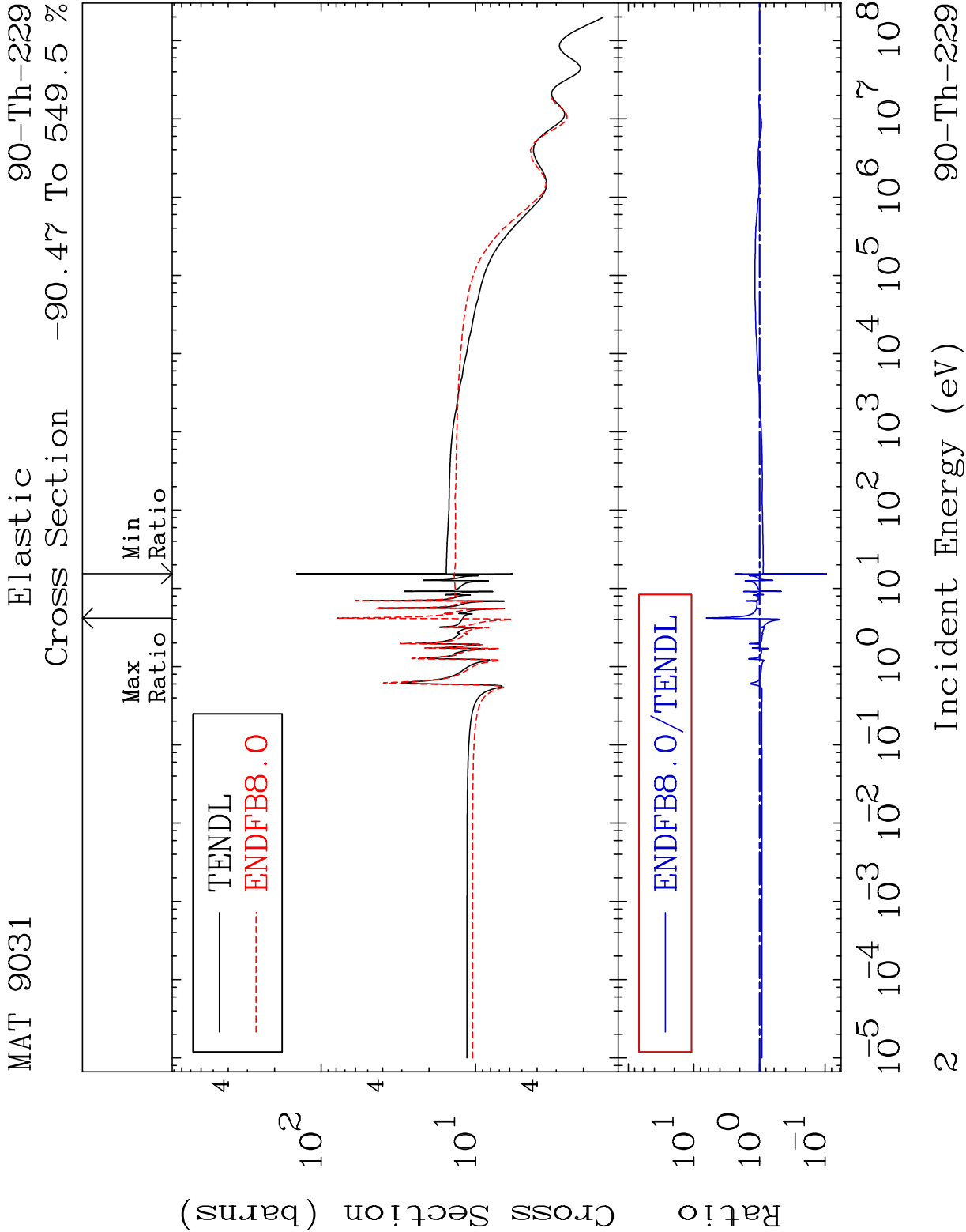
Press Mouse Button to Start

MAT 9031

Total
Cross Section -96.66 To 9999. %
90-Th-229



1 Incident Energy (eV) 90-Th-229

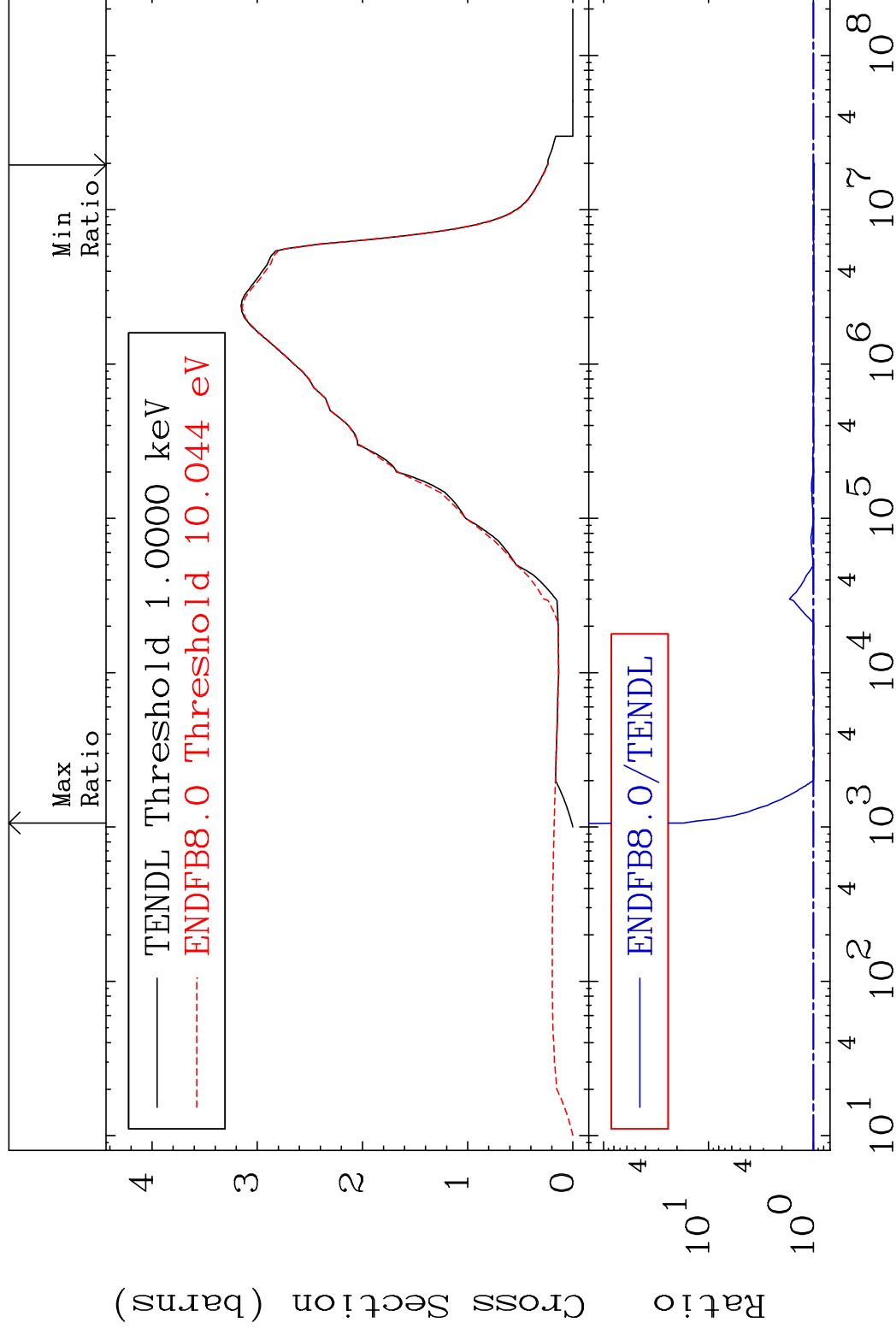


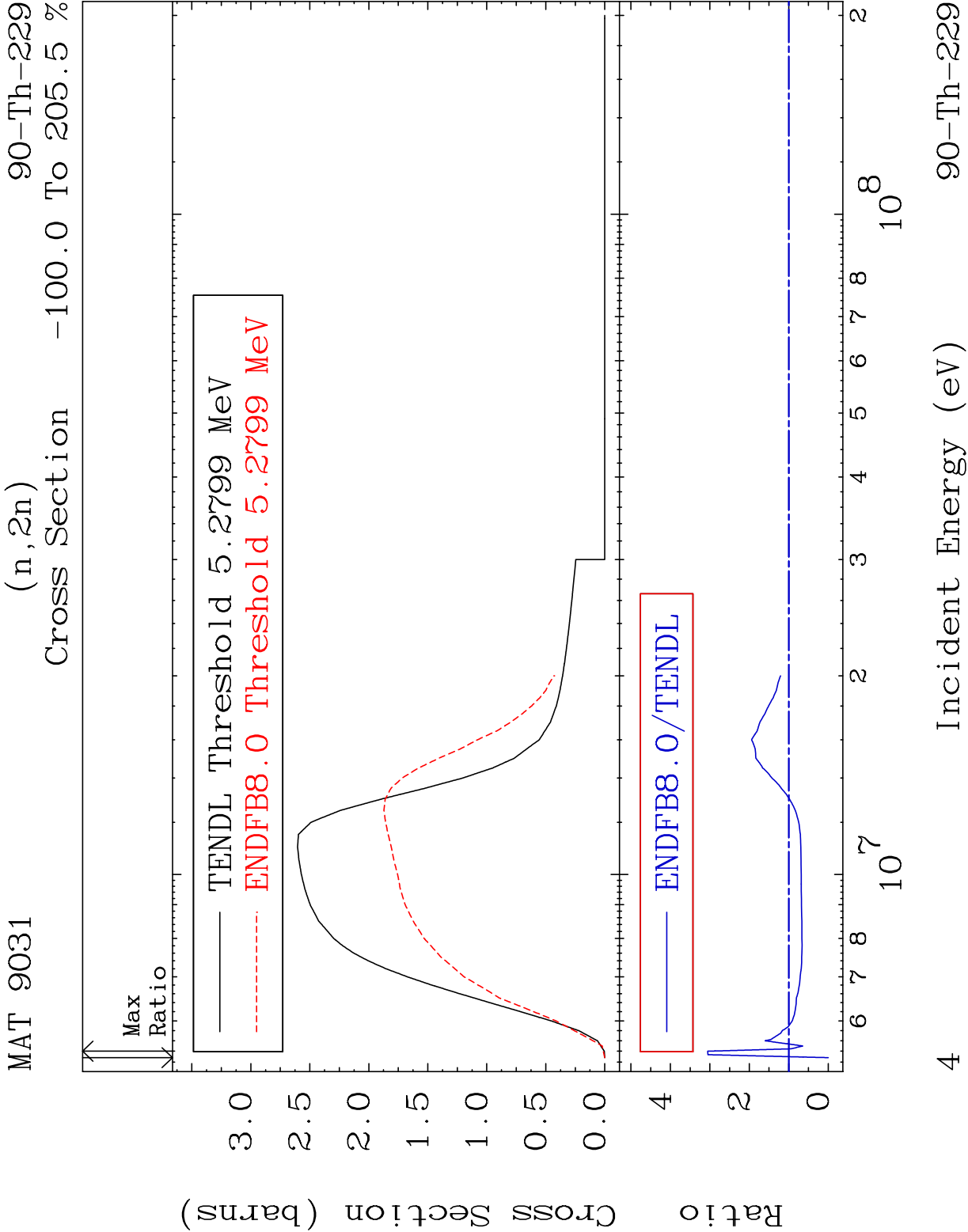
MAT 9031

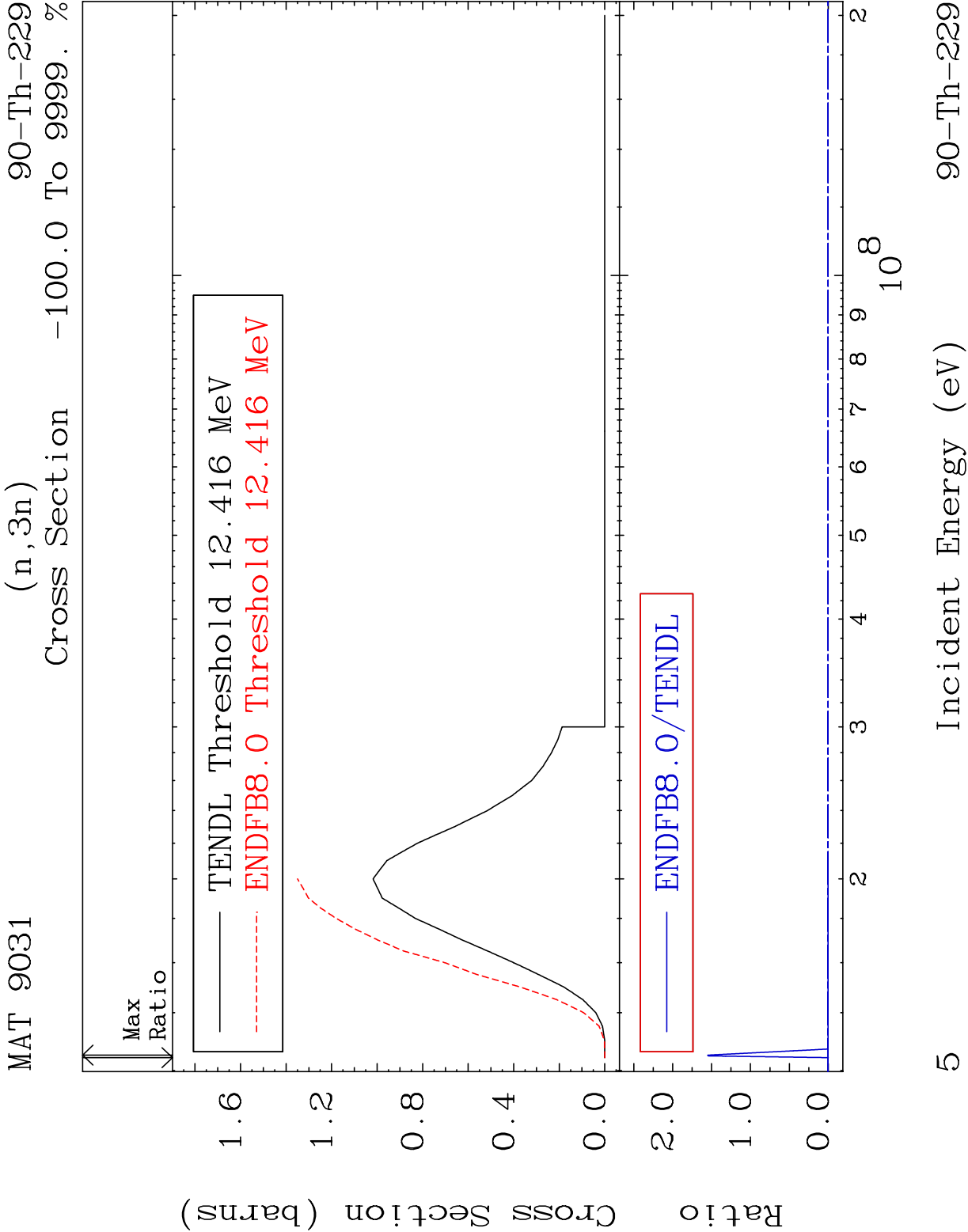
Inelastic

90-Th-229

Cross Section -1.687 To 1613. %





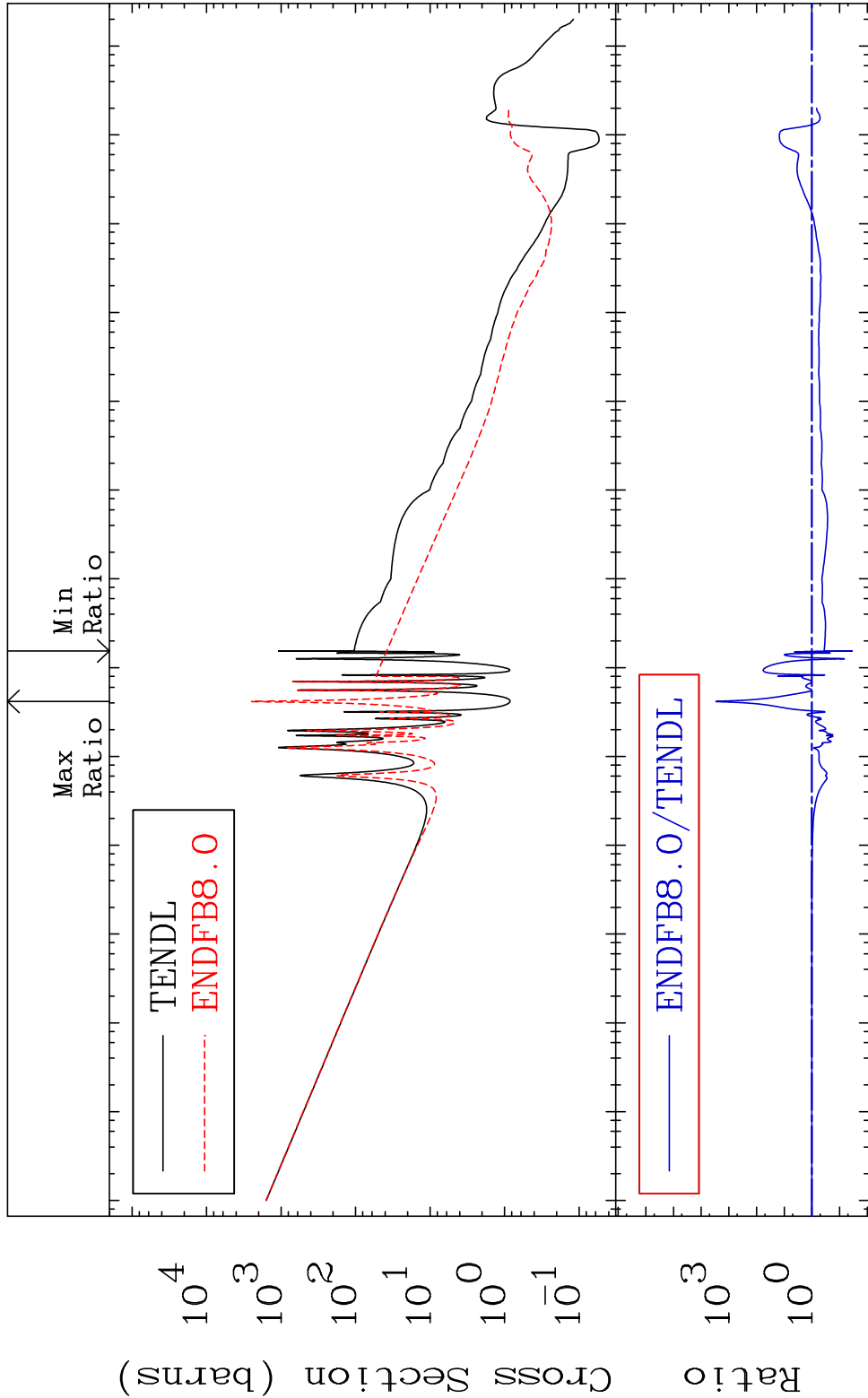


MAT 9031

Fission

90-Th-229

Cross Section -96.48 To 9999. %



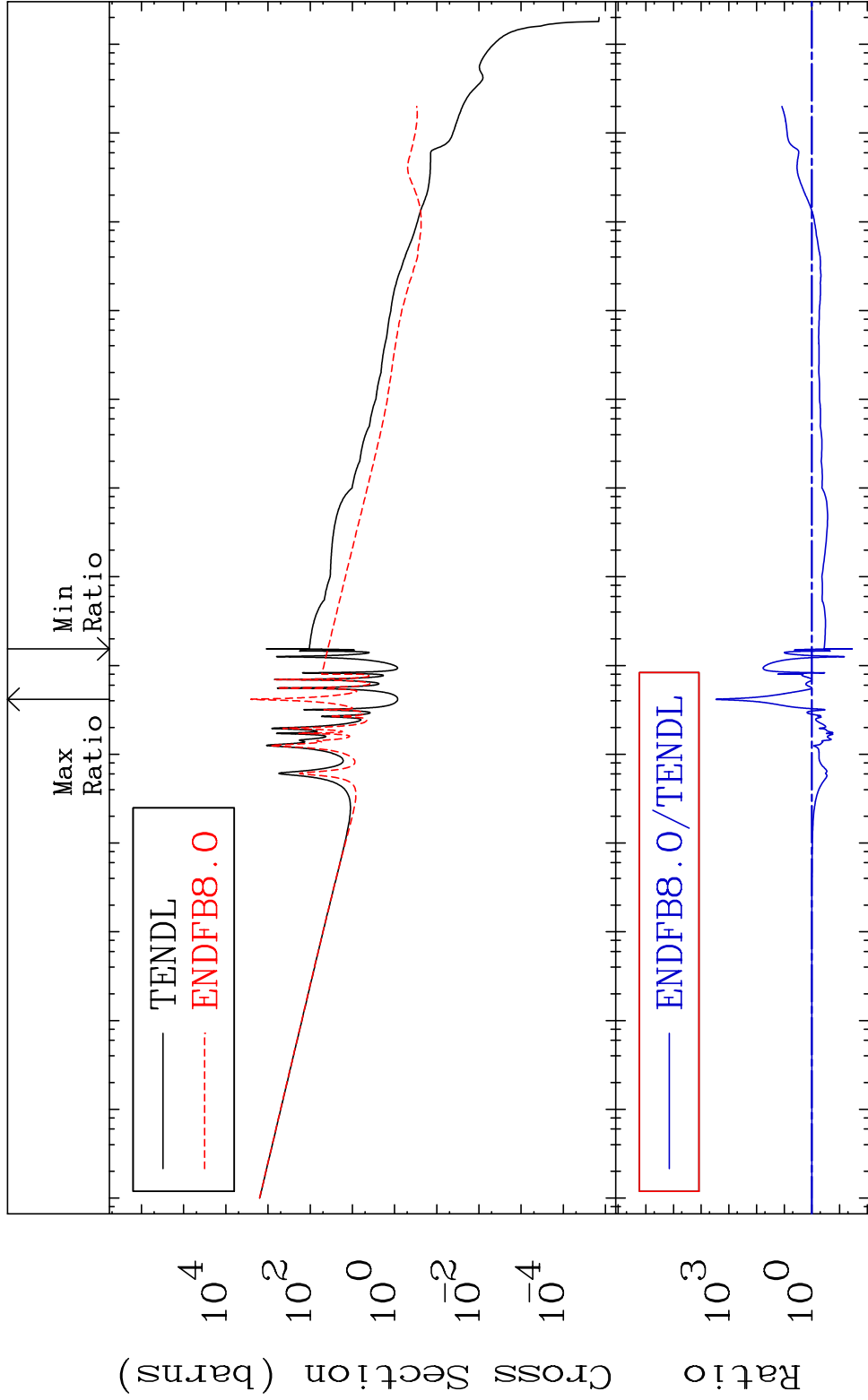
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

6

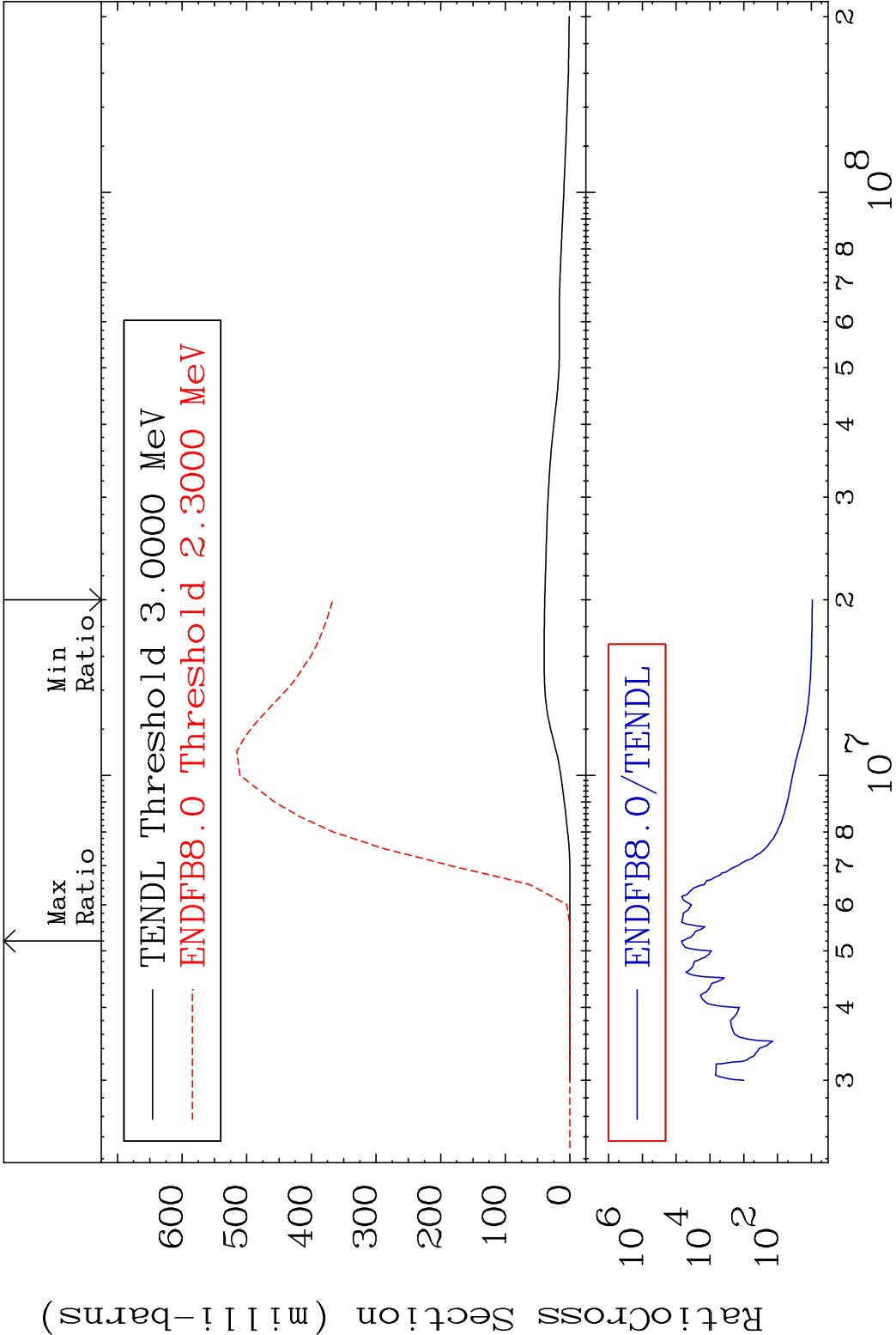
Incident Energy (eV)

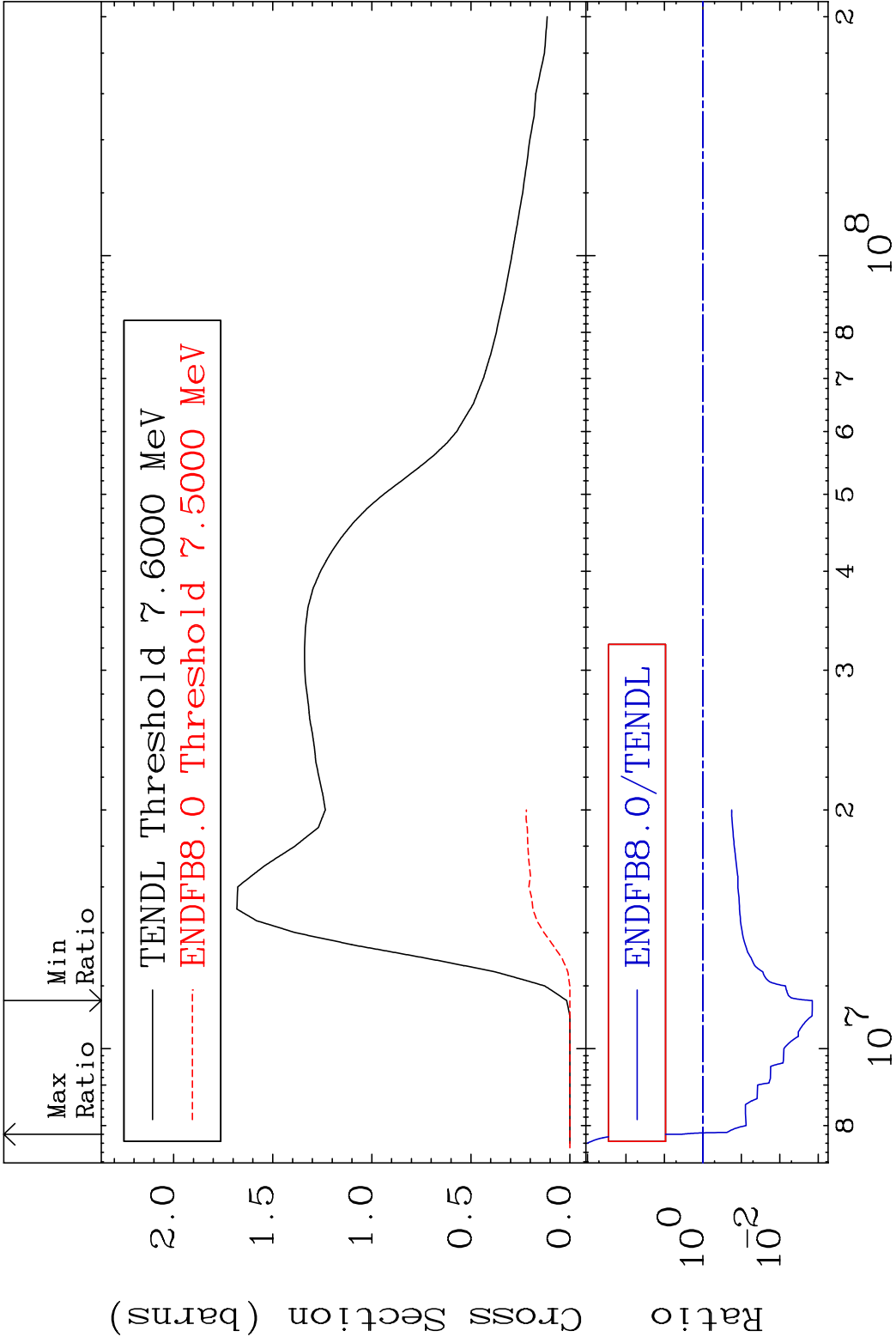
90-Th-229

MAT 9031 (n,f) First Chance 90-Th-229
Cross Section -96.48 To 9999. %



90-Th-229 Incident Energy (eV)



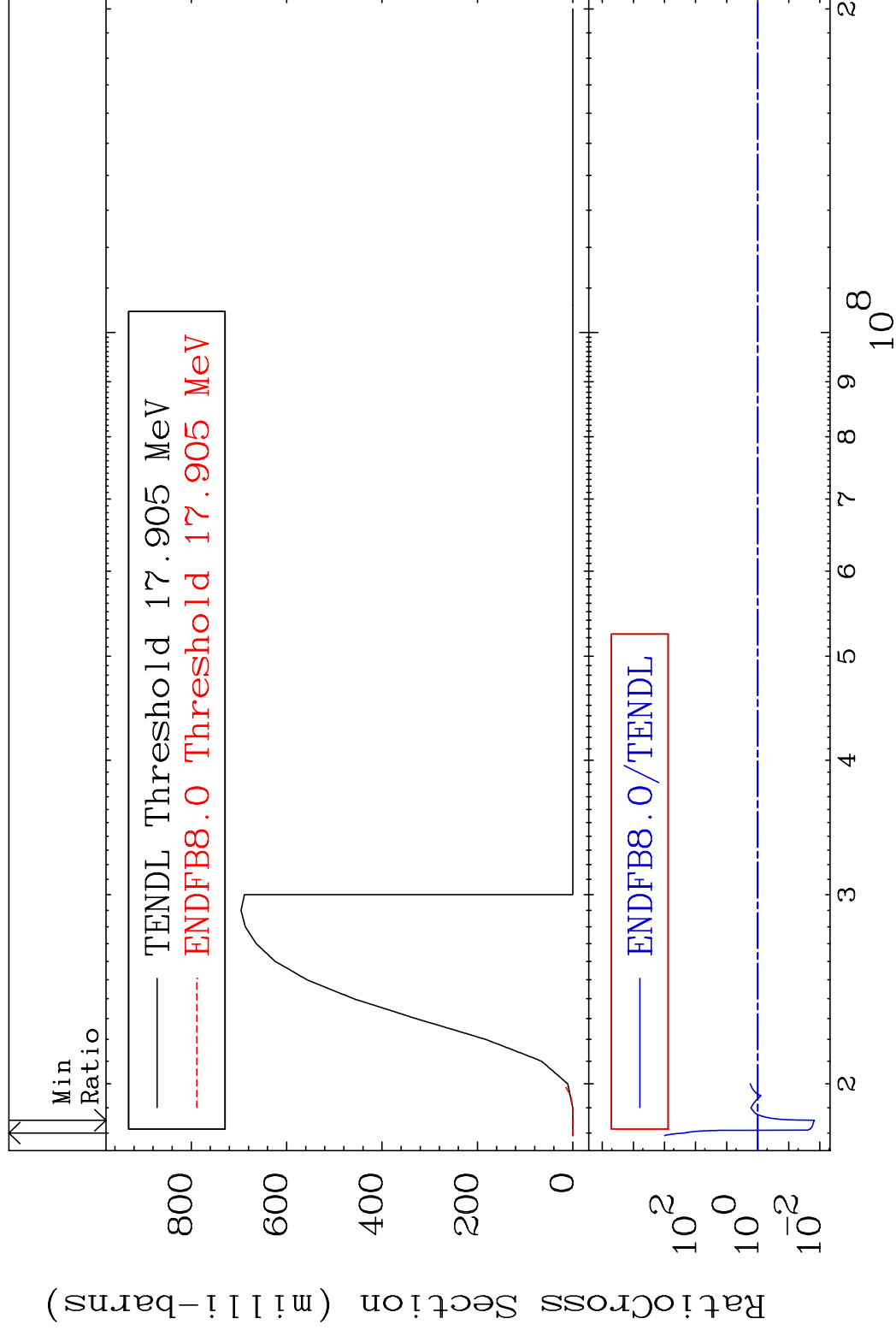


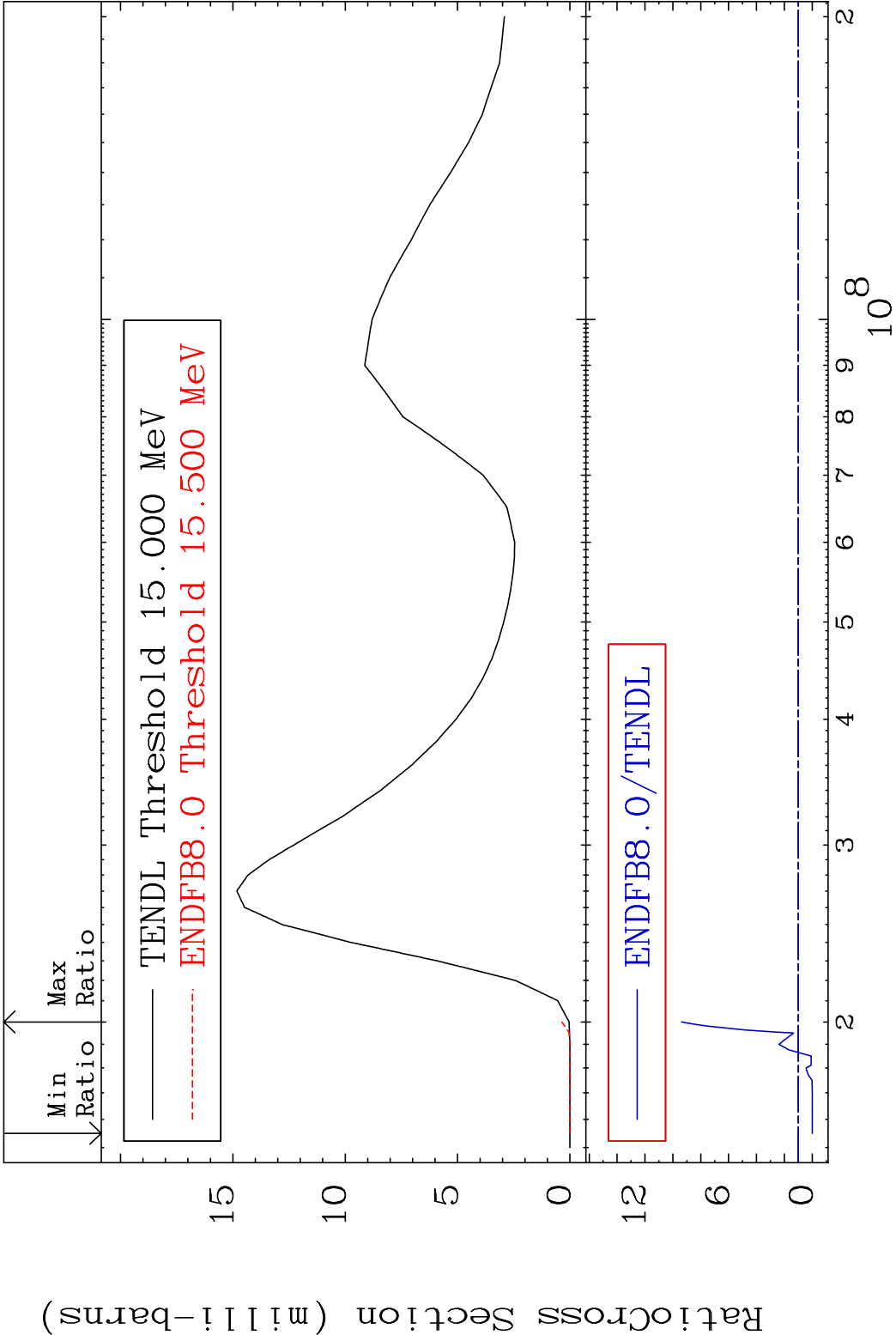
MAT 9031

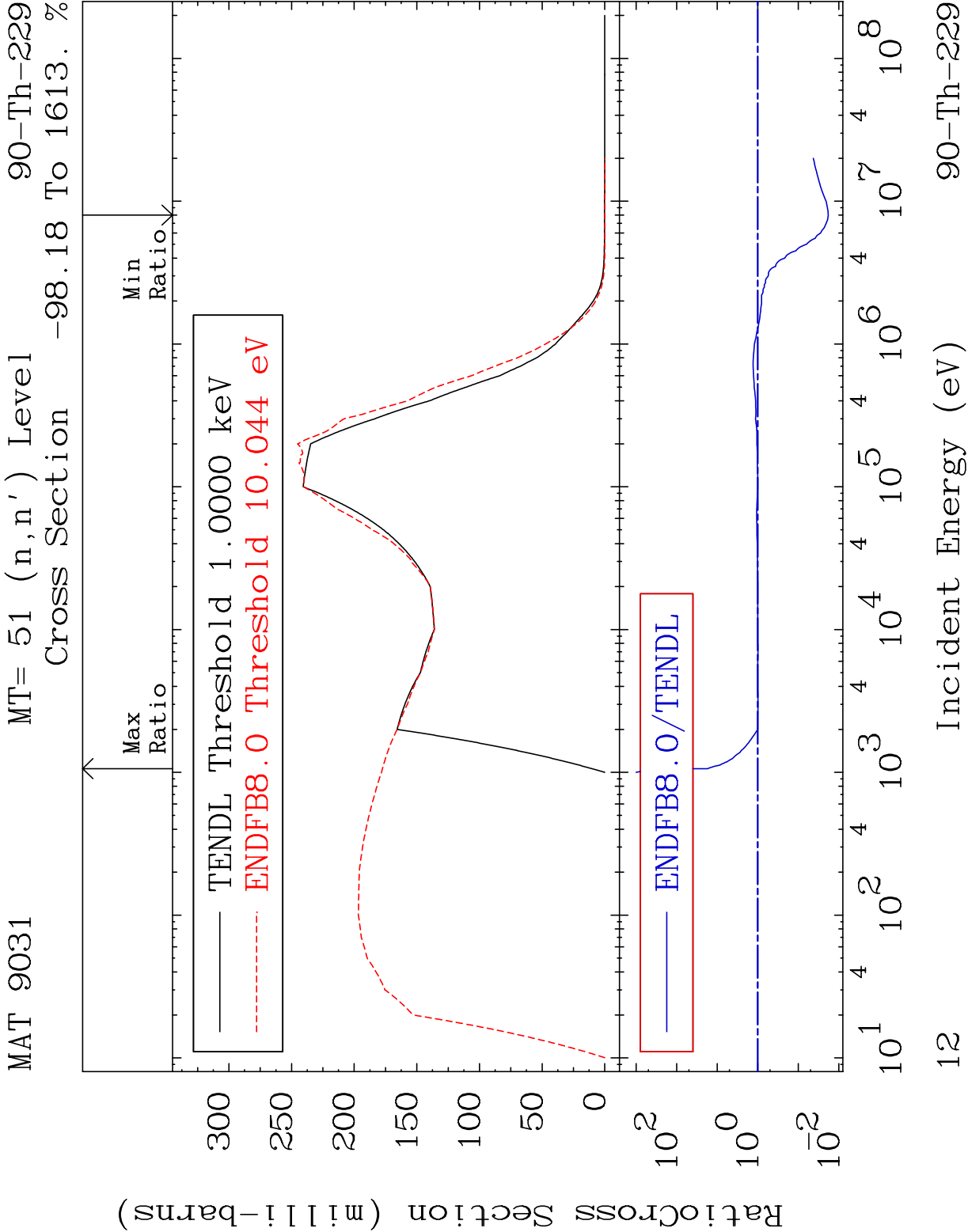
$$(n, 4n)$$

90-Th-229

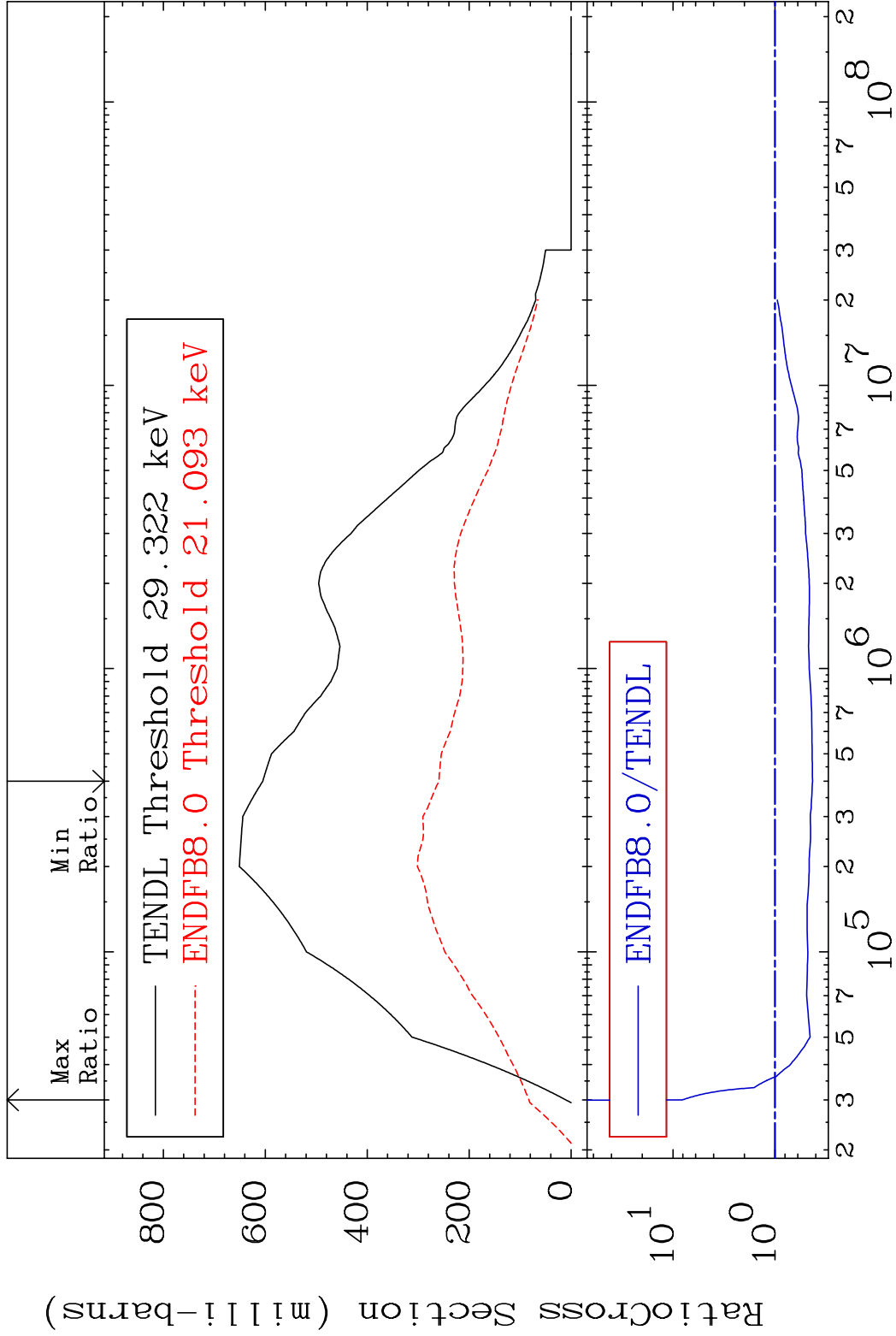
Cross Section -98.48 To 9999. %



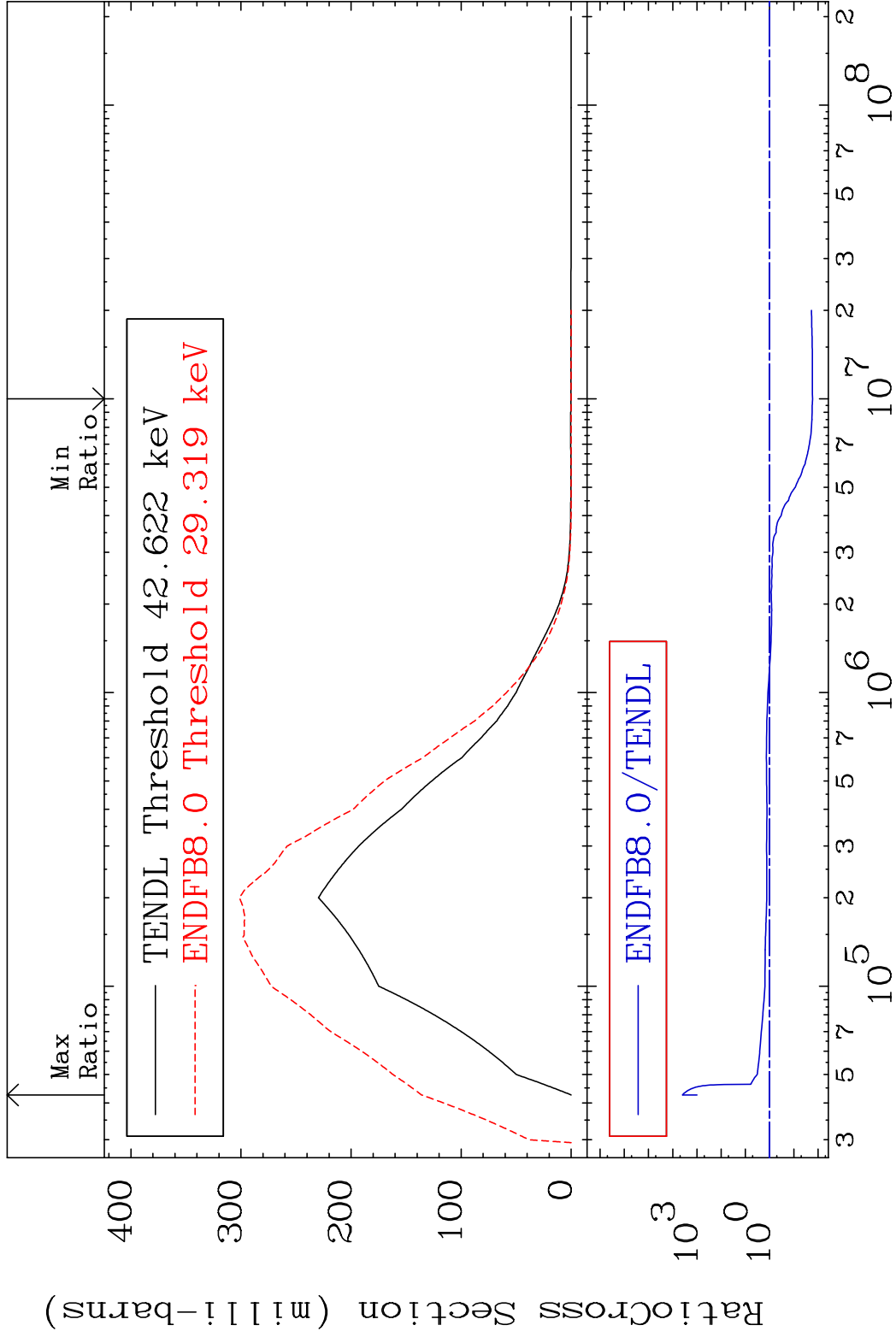




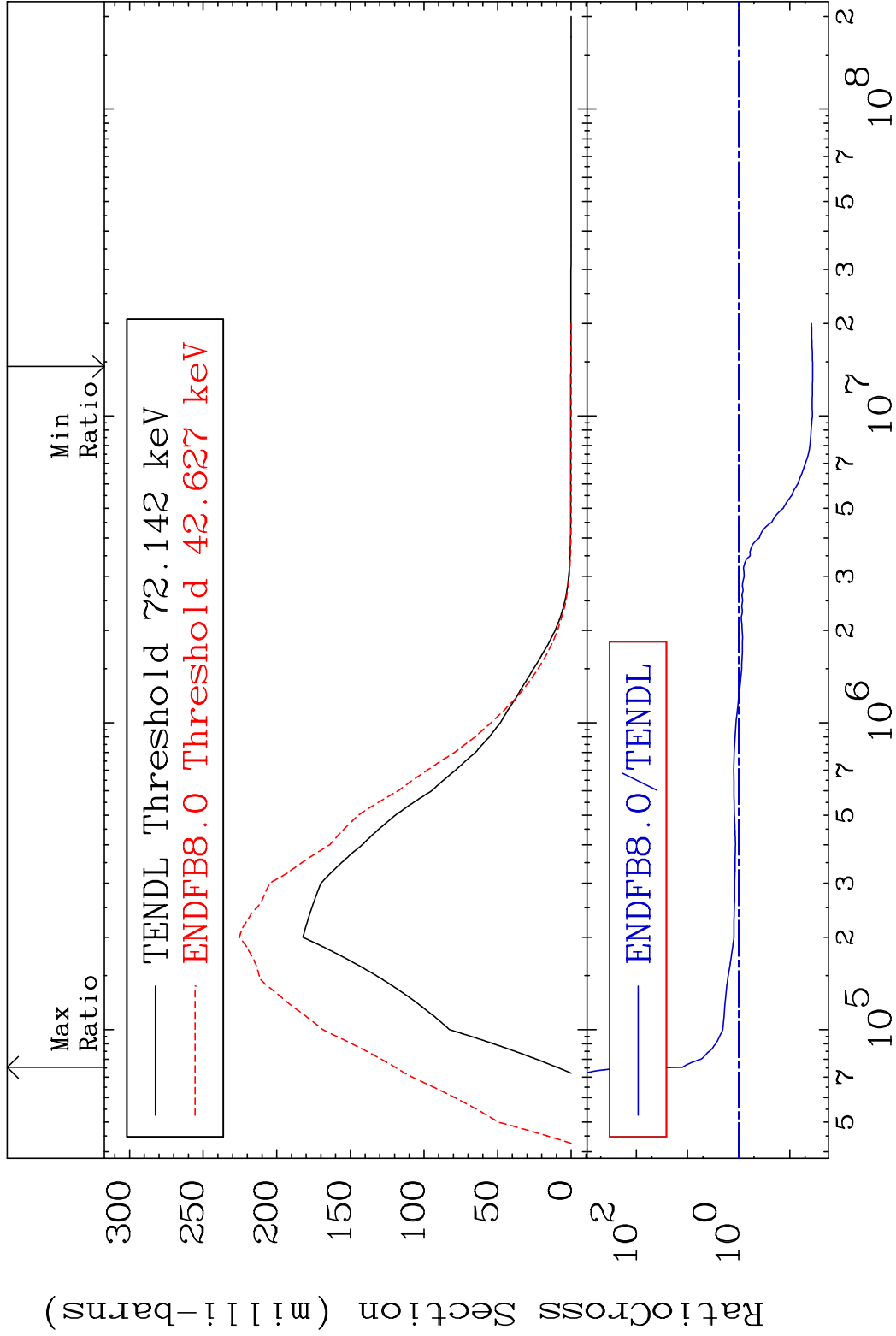
MAT 9031 MT= 52 (n,n') Level 90-Th-229
Cross Section -57.07 To 709.1 %

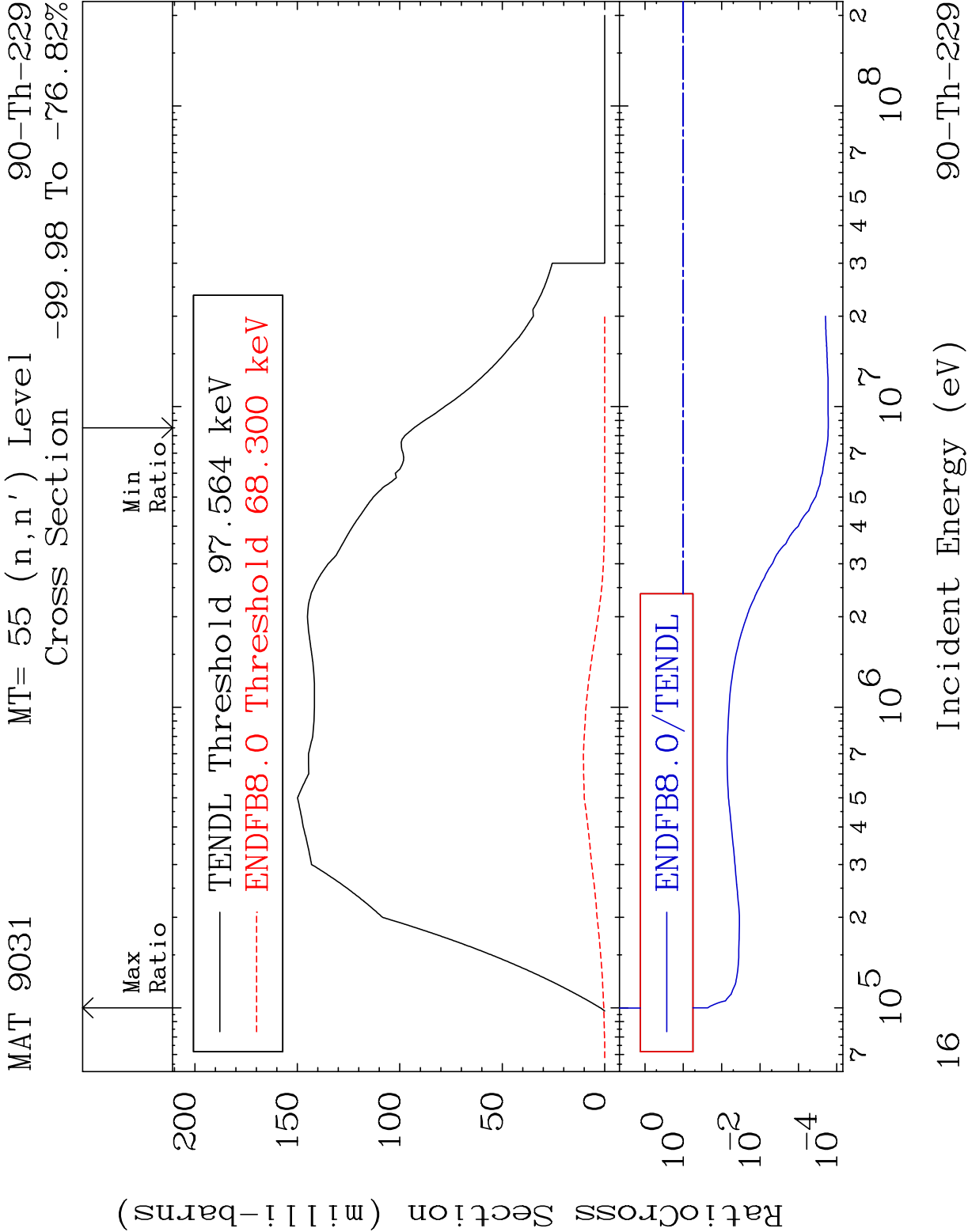


MAT 9031 MT= 53 (n,n') Level 90-Th-229
Cross Section -98.31 To 9999. %



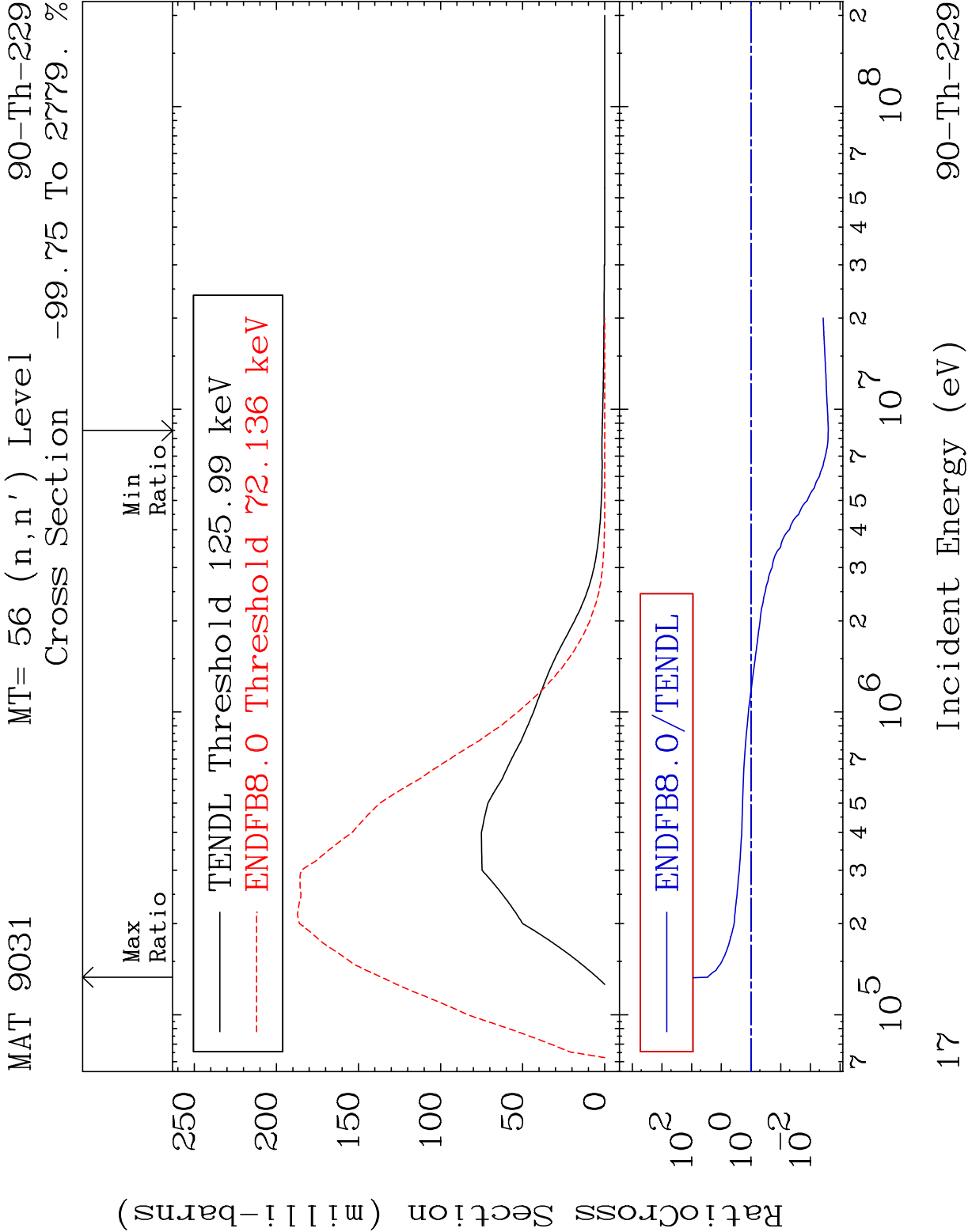
MAT 9031 MT= 54 (n,n') Level 90-Th-229
Cross Section -96.42 To 1162. %





RatioCross Section (milli-barns)

Incident Energy (eV)

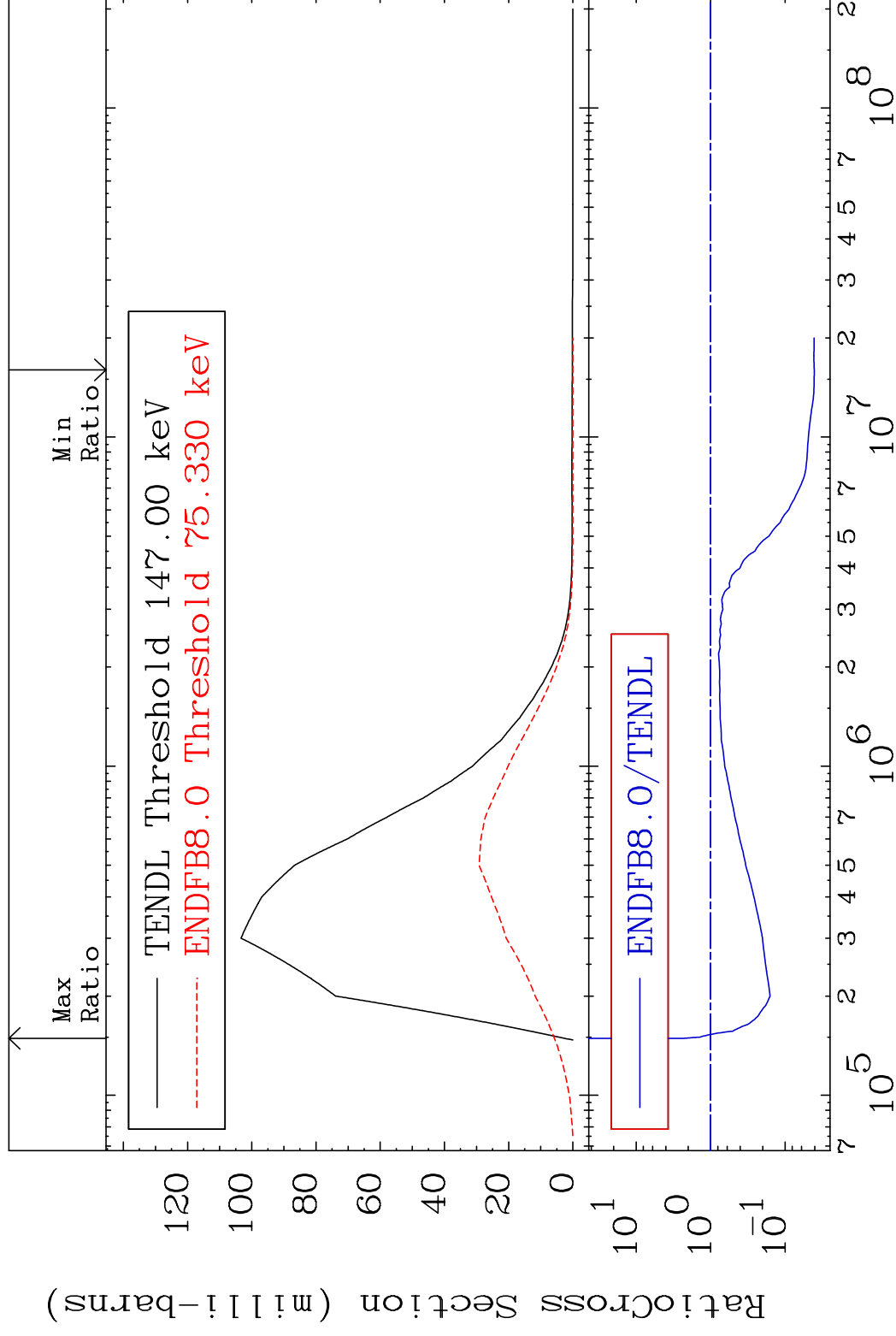


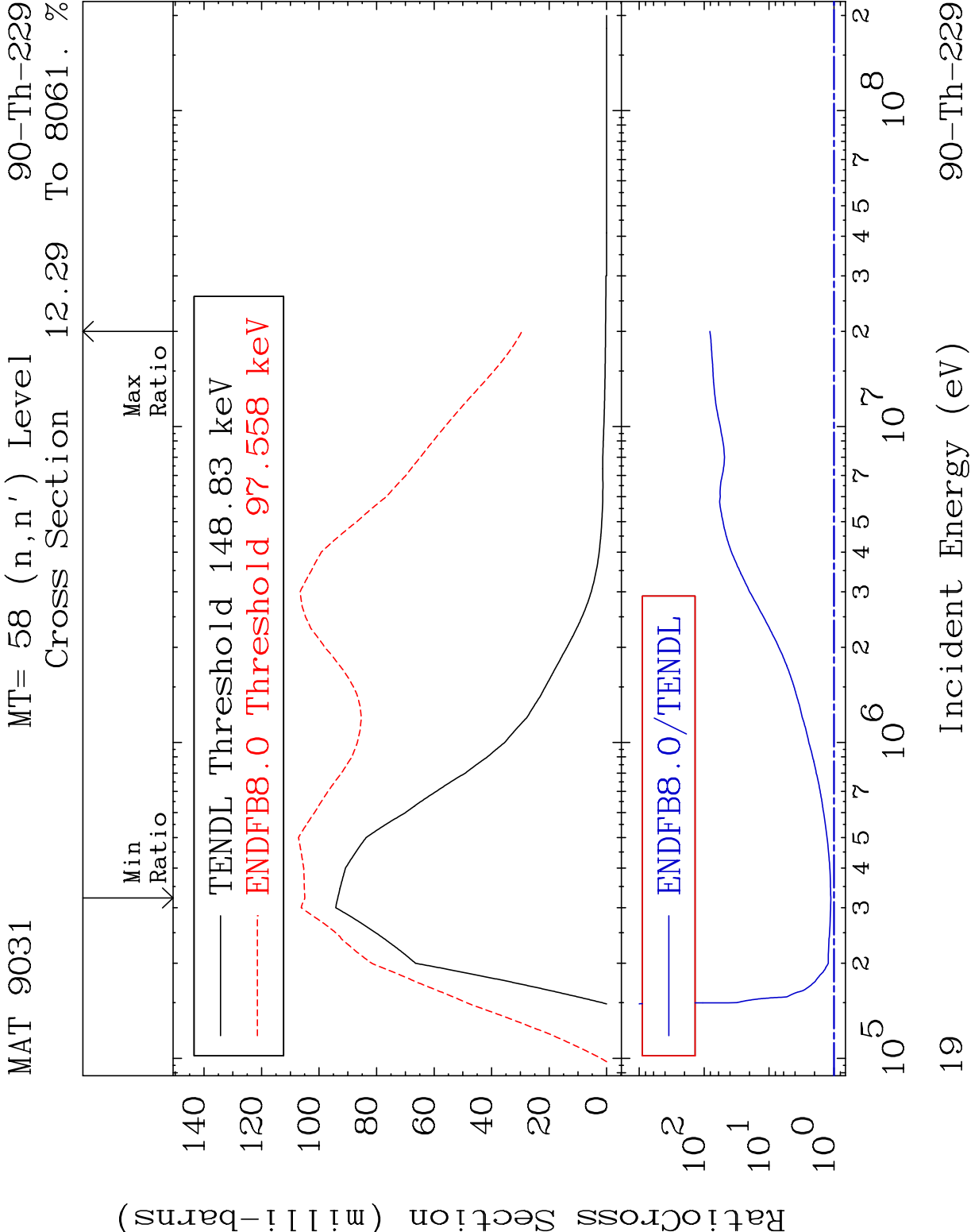
MAT 9031

MT= 57 (n, n') Level

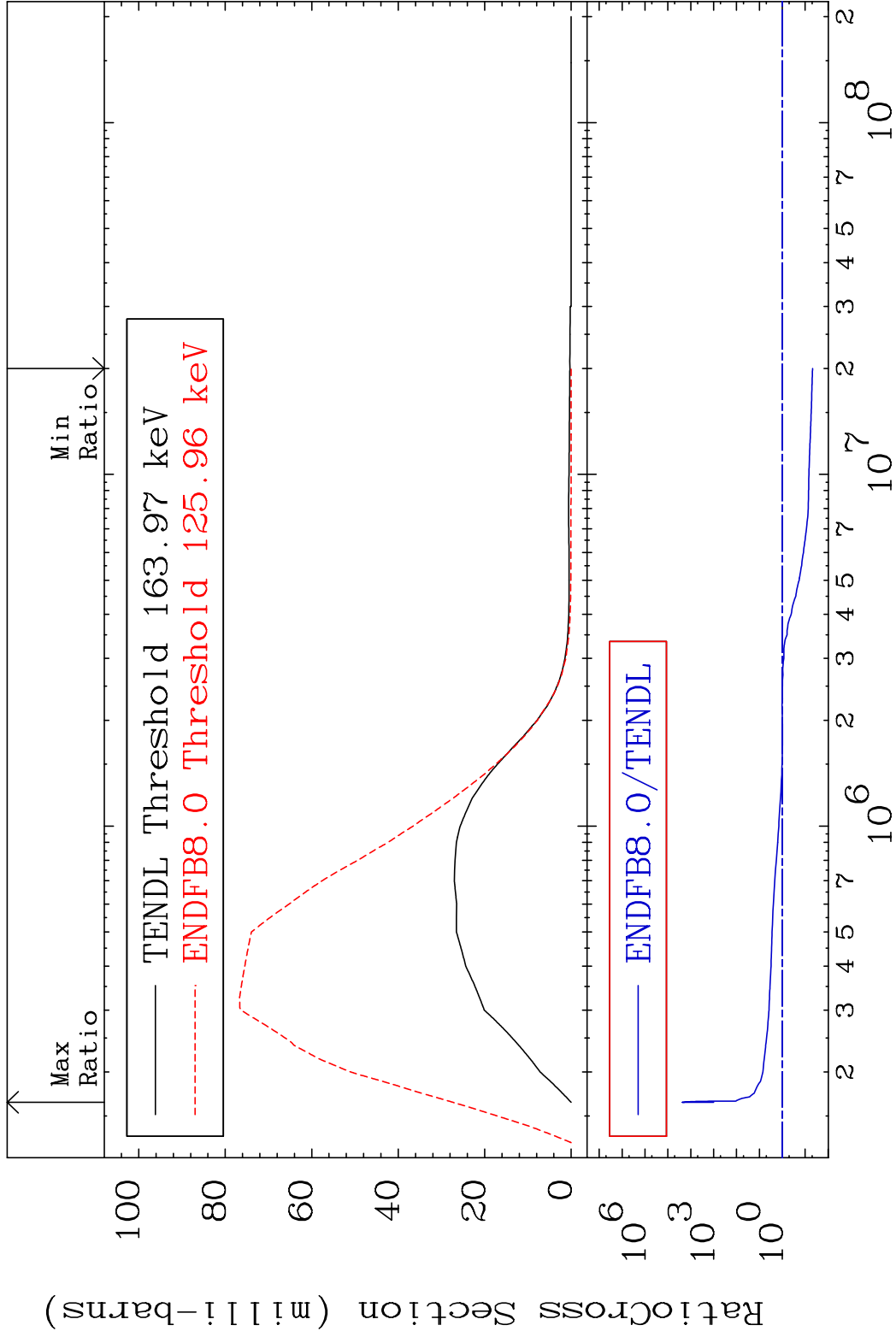
90-Th-229

Cross Section -95.94 To 127.3 %

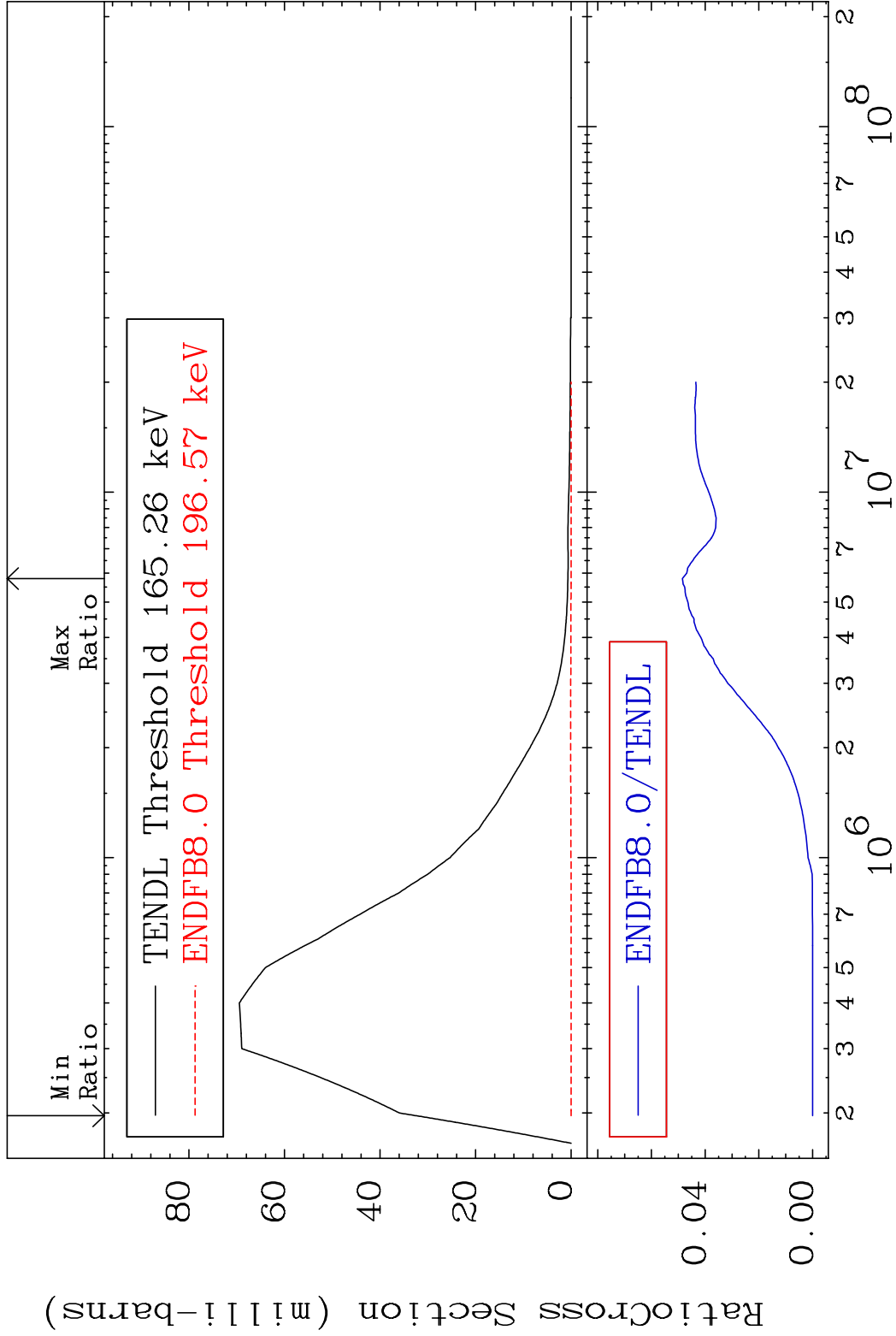




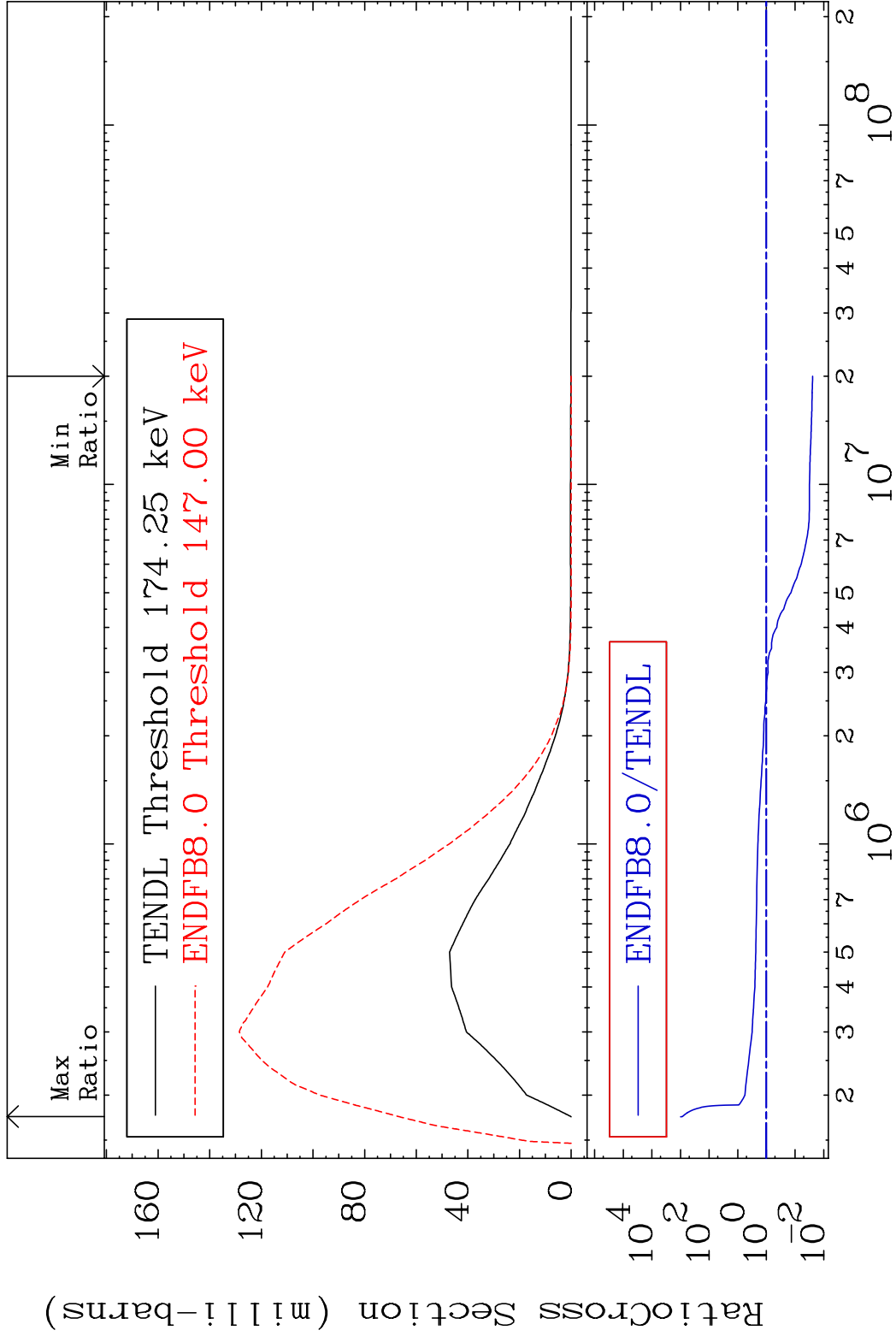
MAT 9031 MT= 59 (n,n') Level 90-Th-229
Cross Section -95.25 To 9999. %



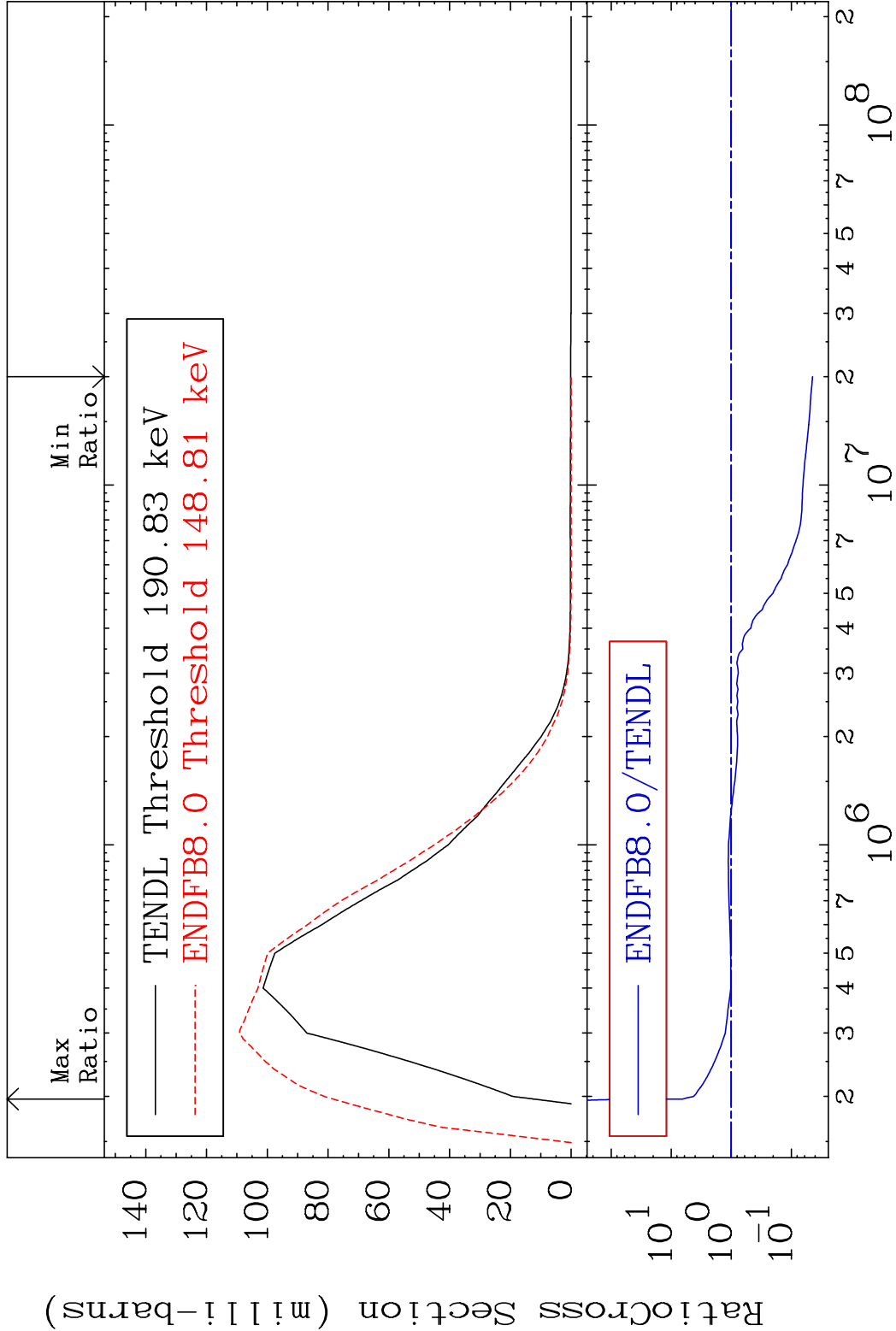
MAT 9031 MT= 60 (n,n') Level 90-Th-229
Cross Section -100.0 To -95.15%



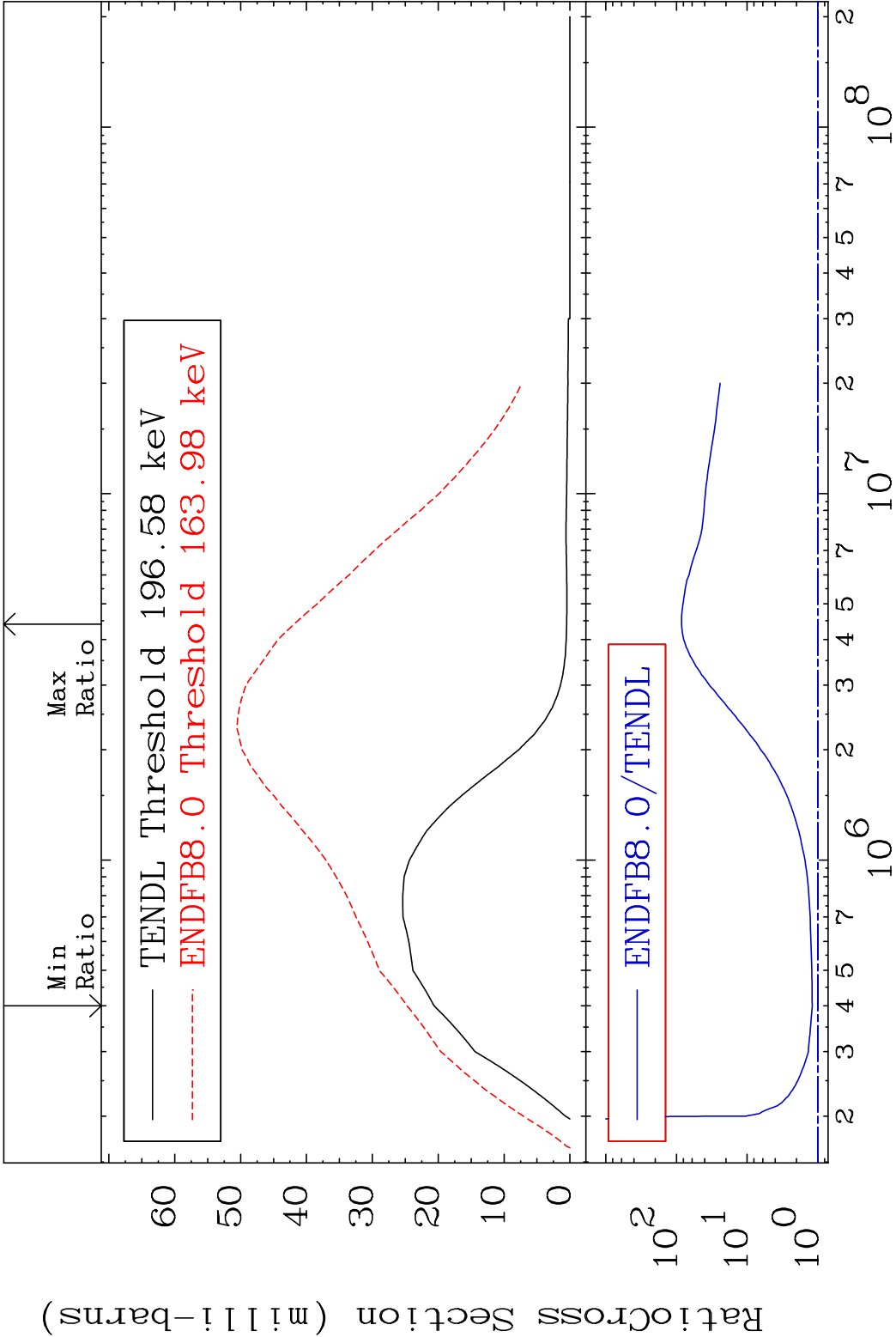
MAT 9031 MT= 61 (n,n') Level 90-Th-229
Cross Section -97.55 To 9999. %



MAT 9031 MT= 62 (n,n') Level 90-Th-229
Cross Section -95.58 To 551.8 %



MAT 9031 MT= 63 (n,n') Level 90-Th-229
Cross Section 19.90 To 8384. %



MAT 9031

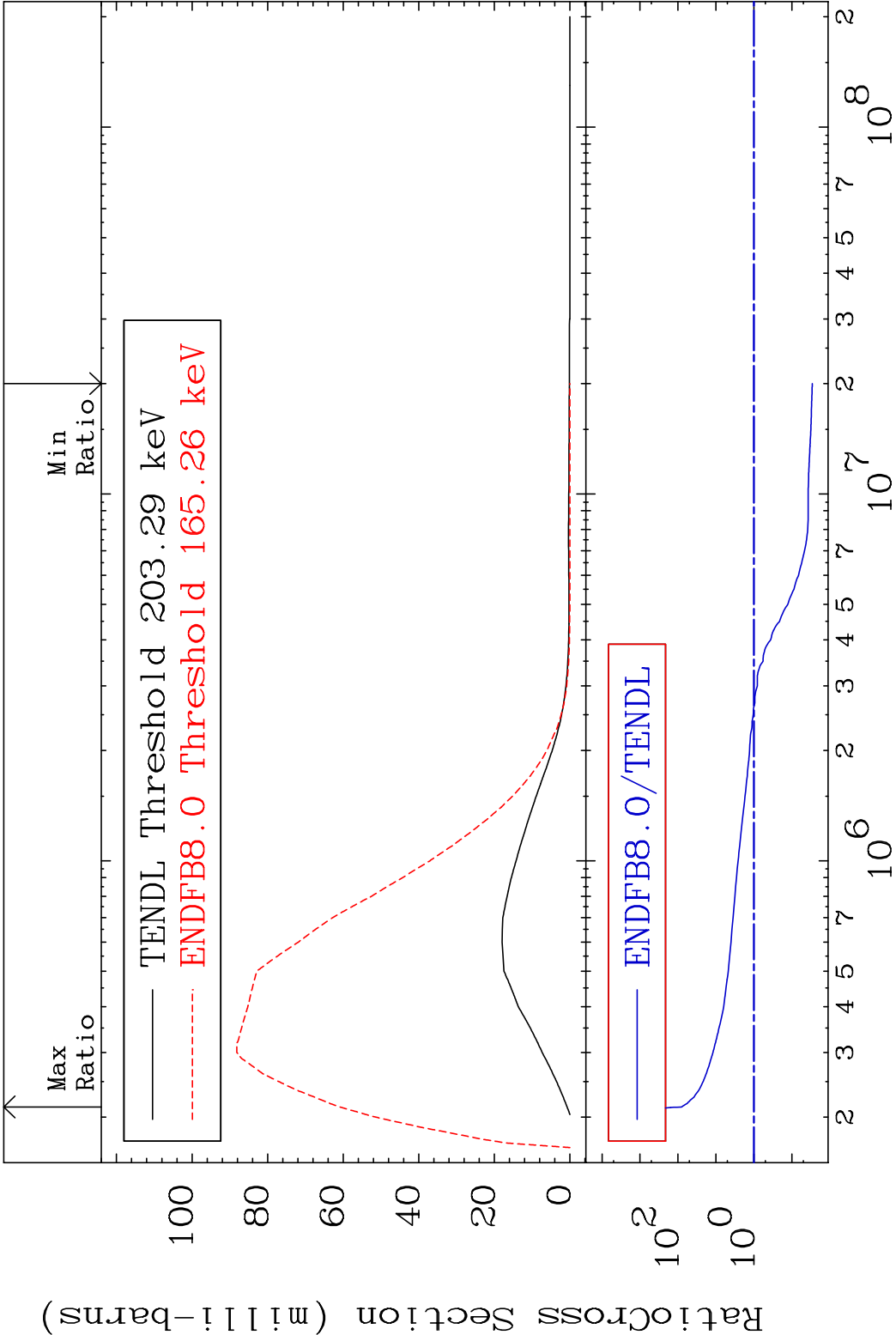
MT= 64 (n,n')

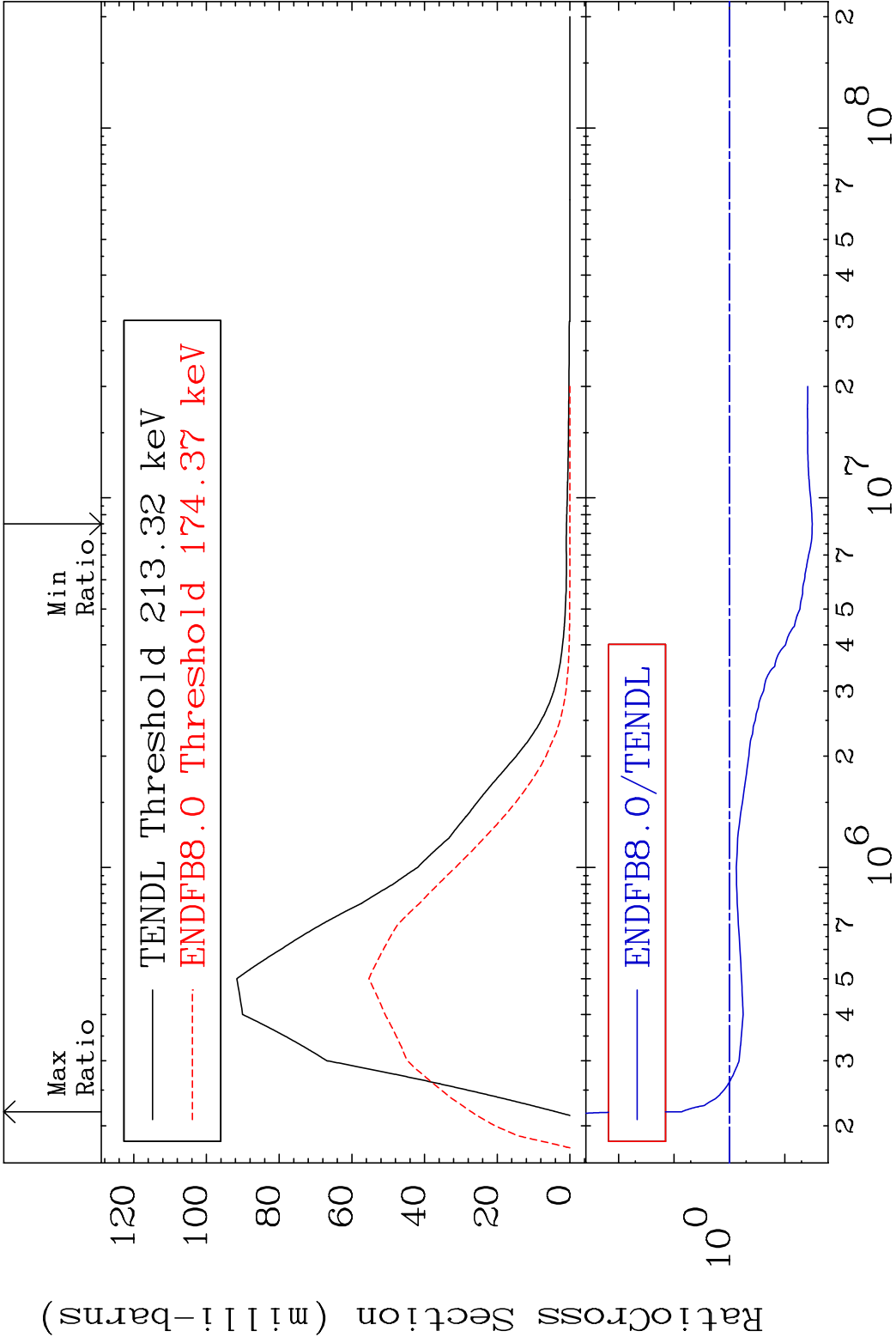
Level

90-Th-229

Cross Section

-97.10 To 7954. %





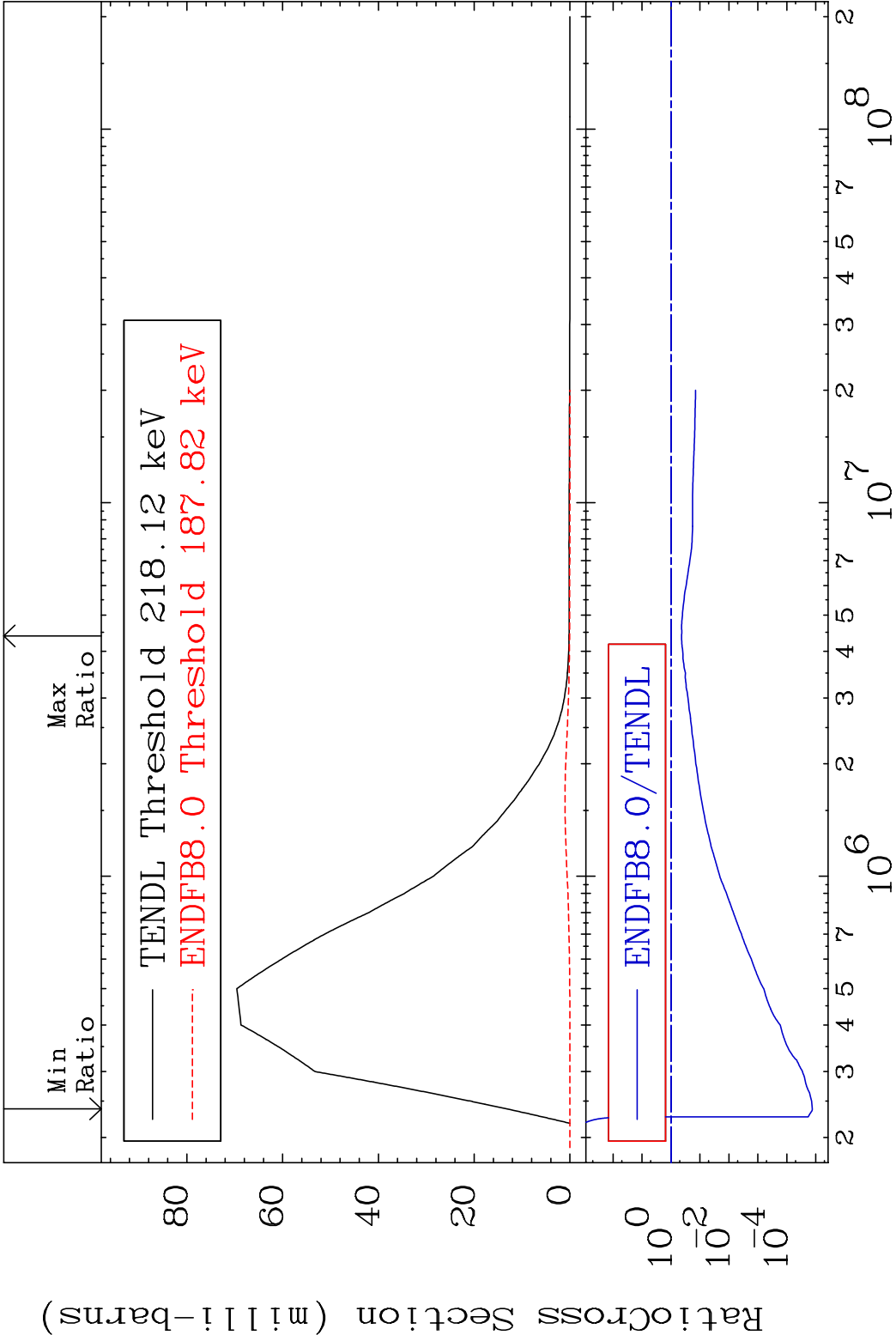
MAT 9031

MT= 66 (n,n') Level

90-Th-229

Cross Section

-100.0 To -56.84%



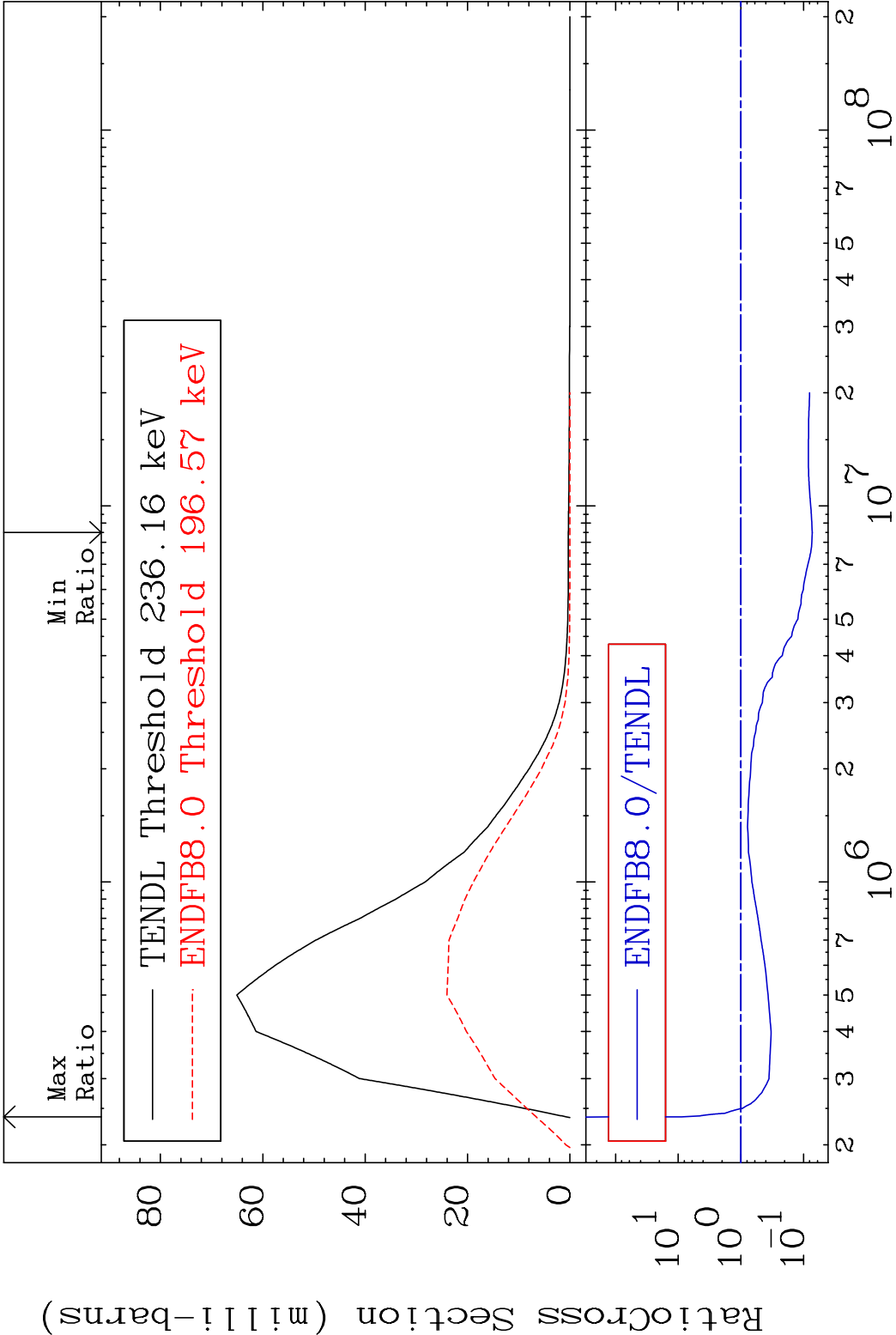
MAT 9031

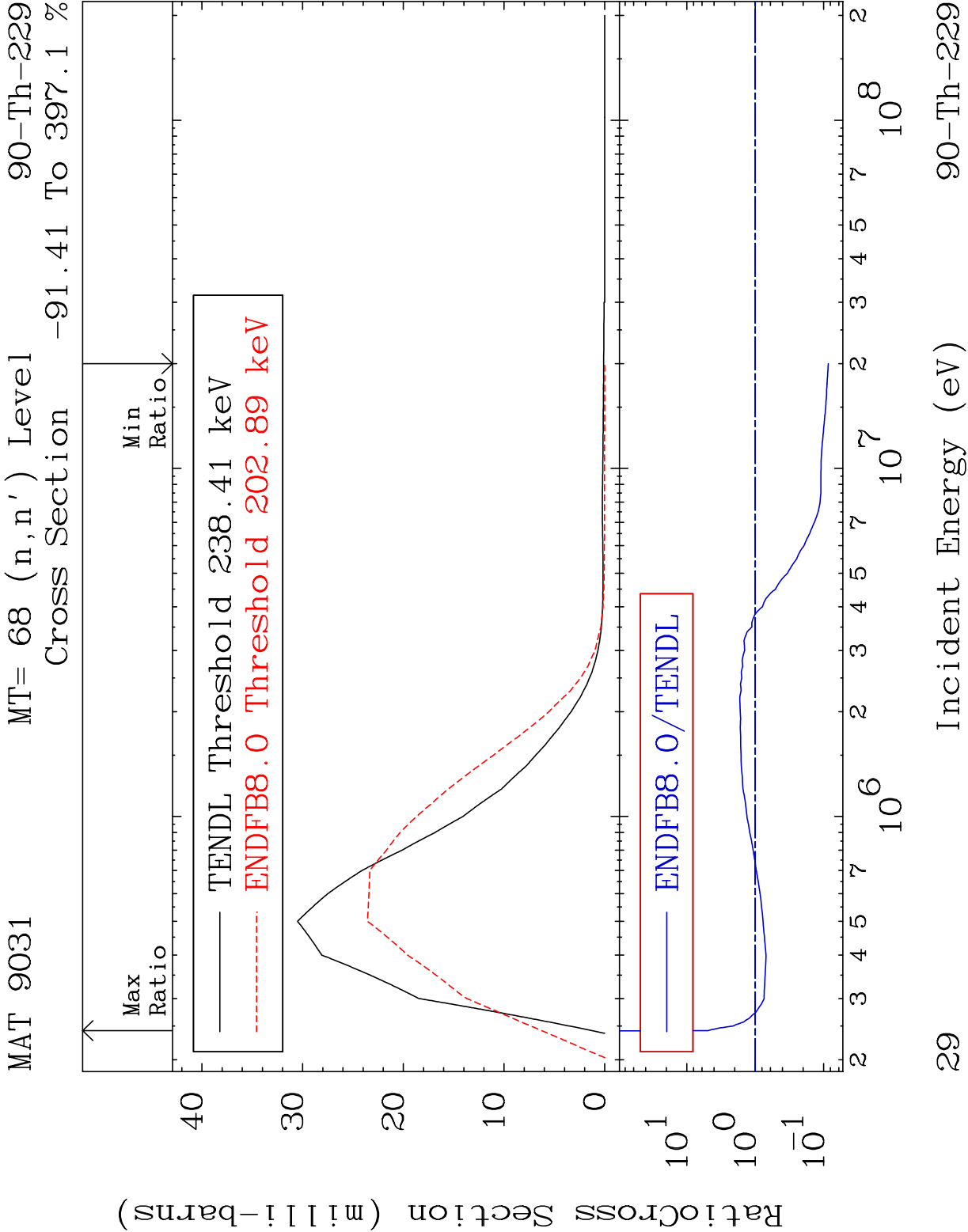
MT= 67 (n,n') Level

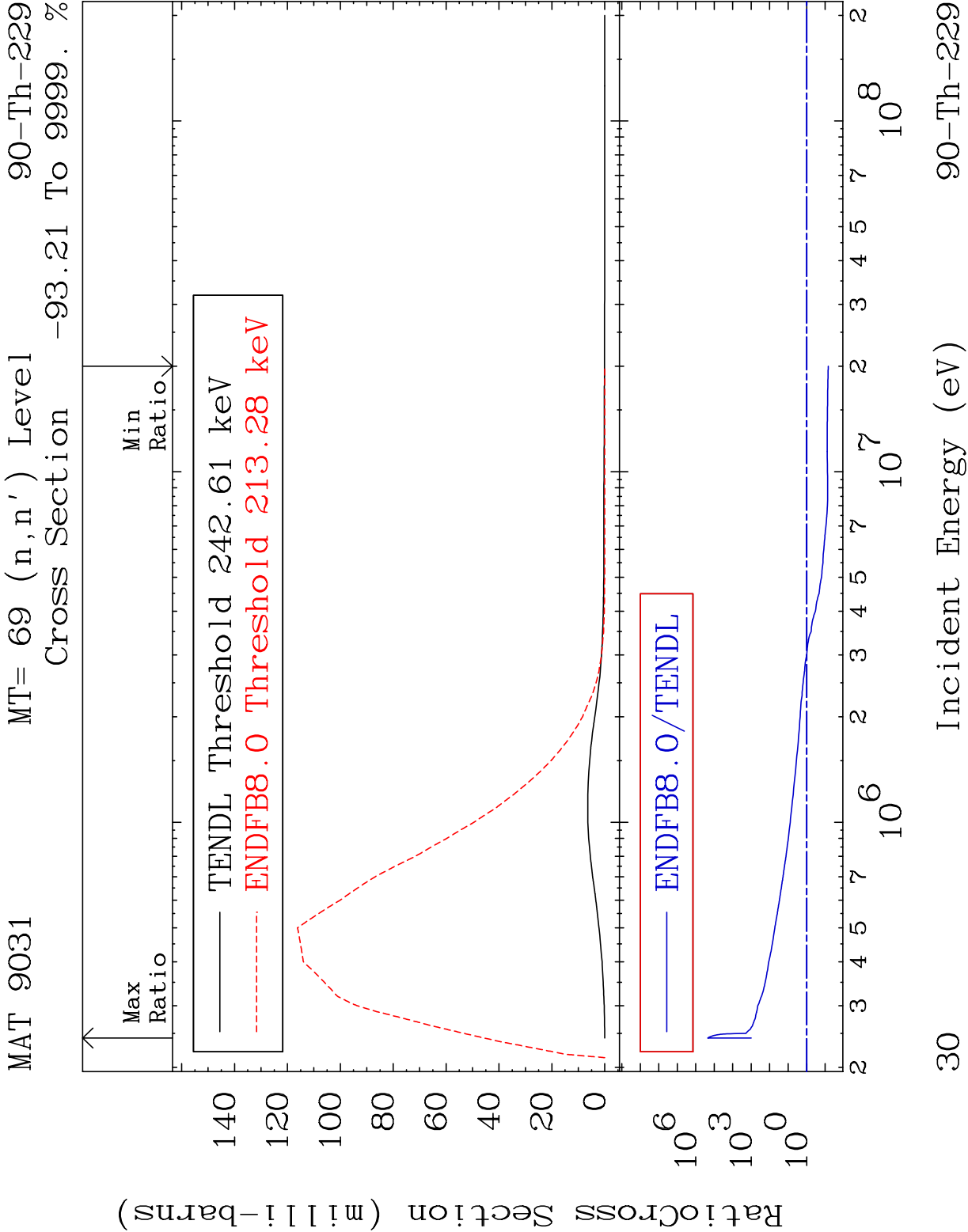
90-Th-229

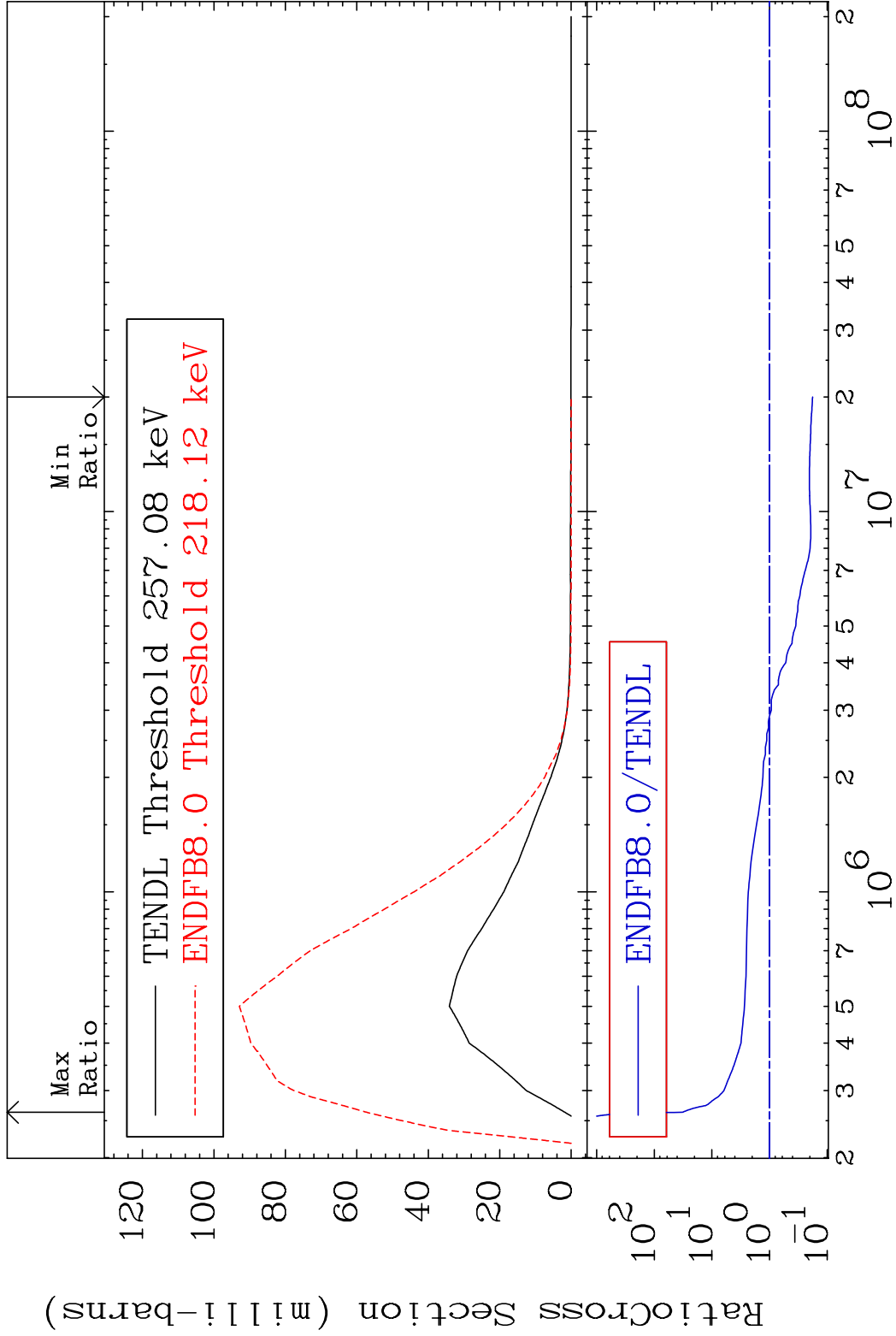
Cross Section

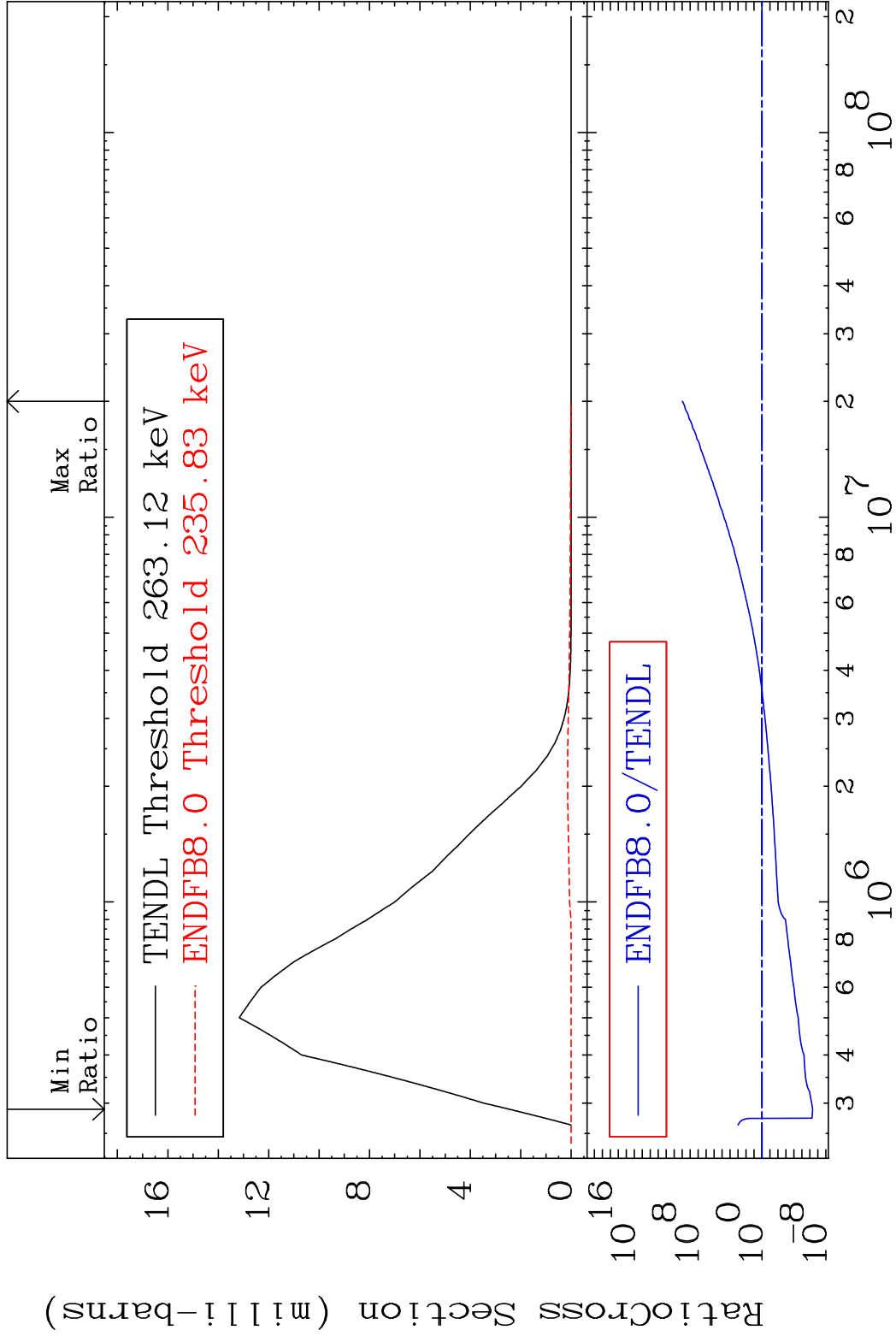
-92.73 To 785.2 %



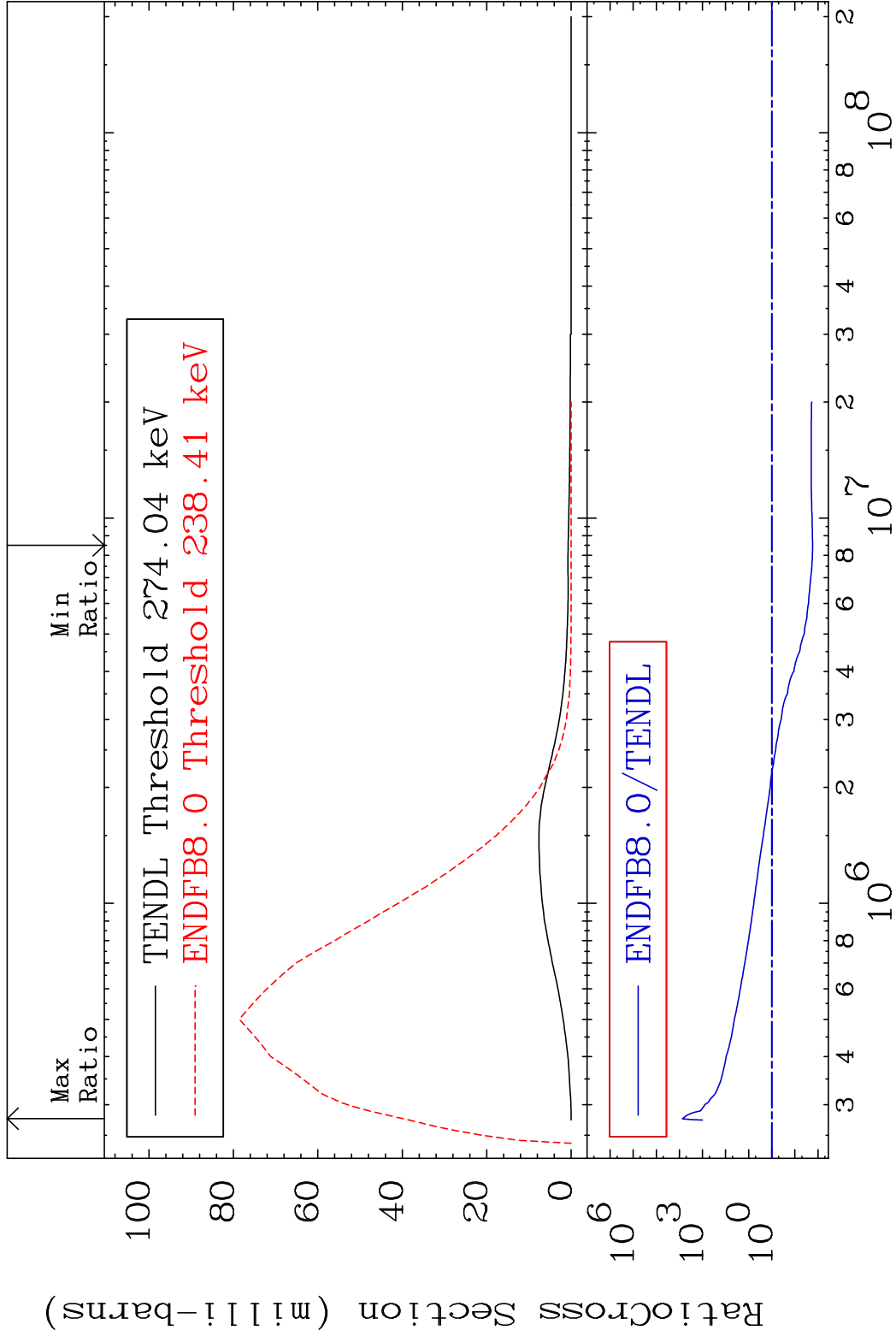


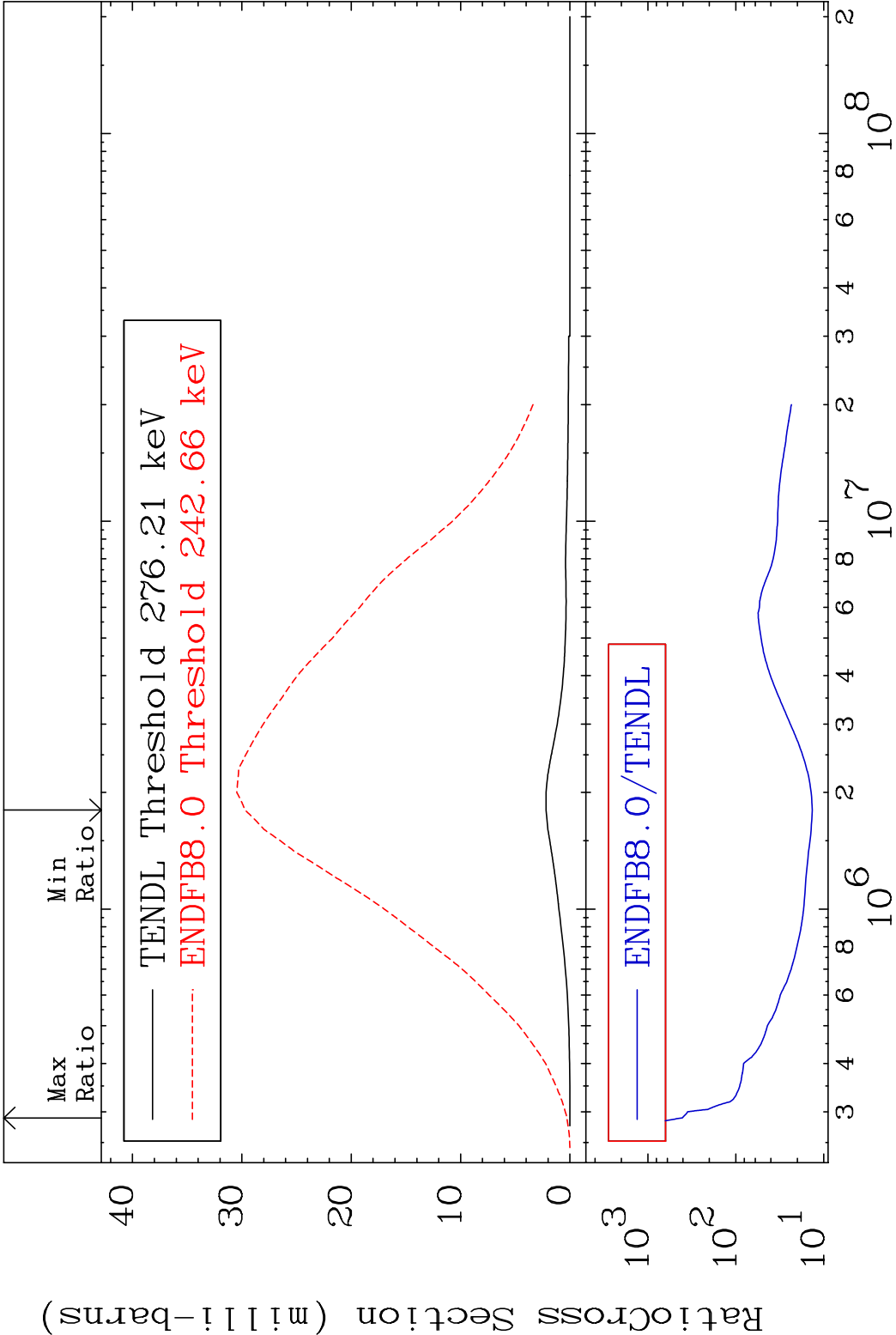




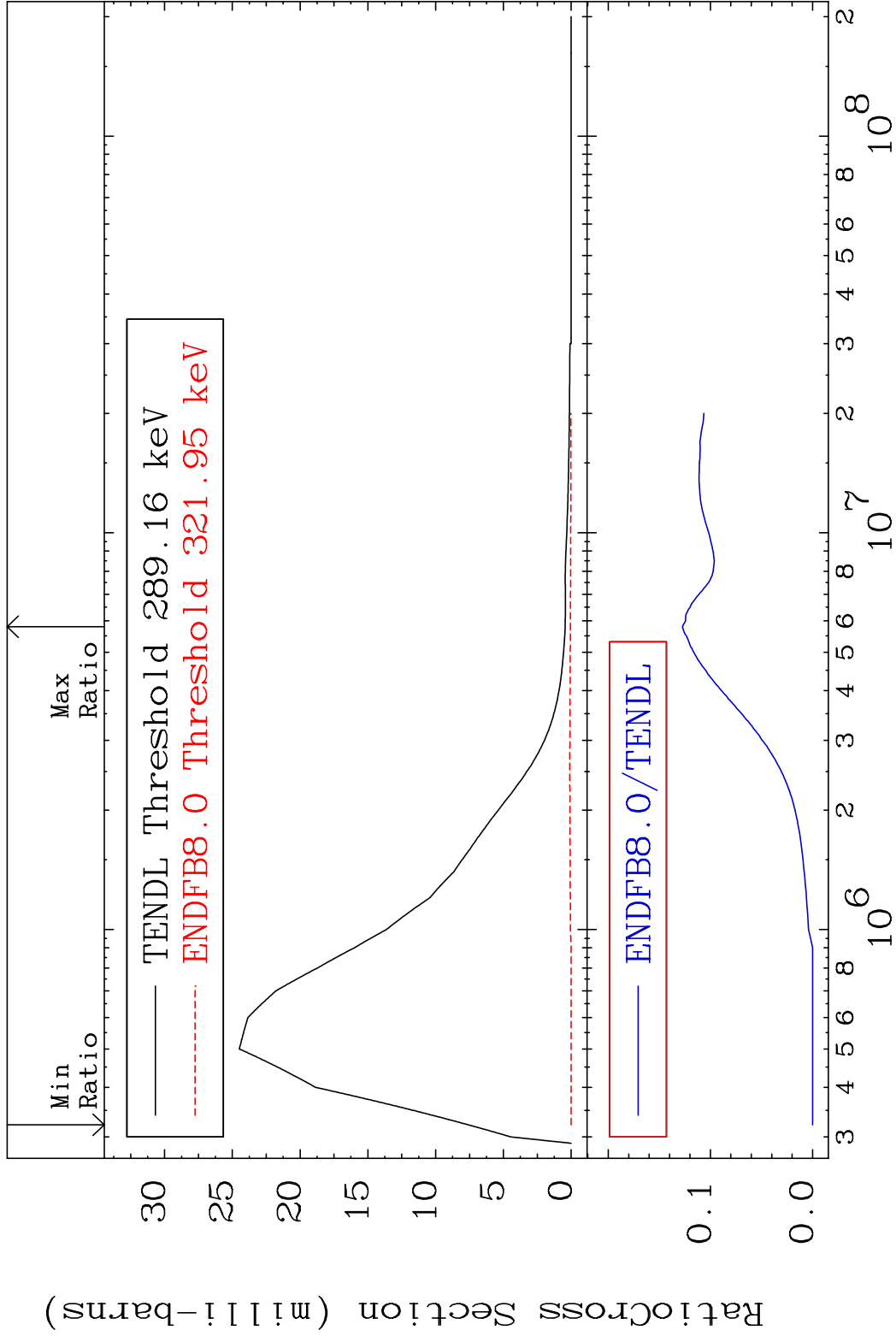


MAT 9031 MT= 72 (n,n') Level 90-Th-229
Cross Section -98.28 To 9999. %





MAT 9031 MT= 74 (n,n') Level 90-Th-229
Cross Section -100.0 To -87.25%



MAT 9031

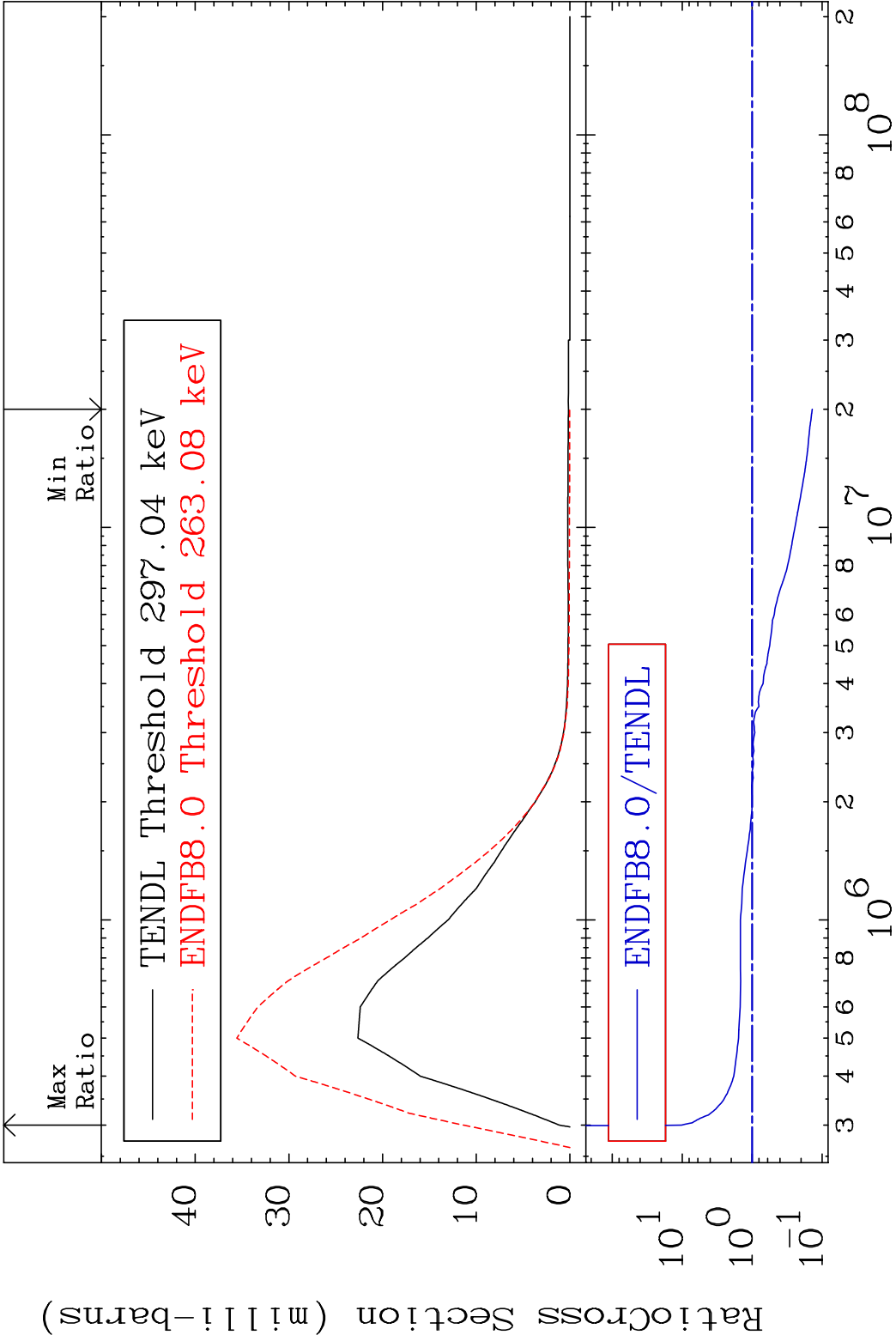
MT= 75 (n,n')

Level

90-Th-229

Cross Section

-86.15 To 923.8 %



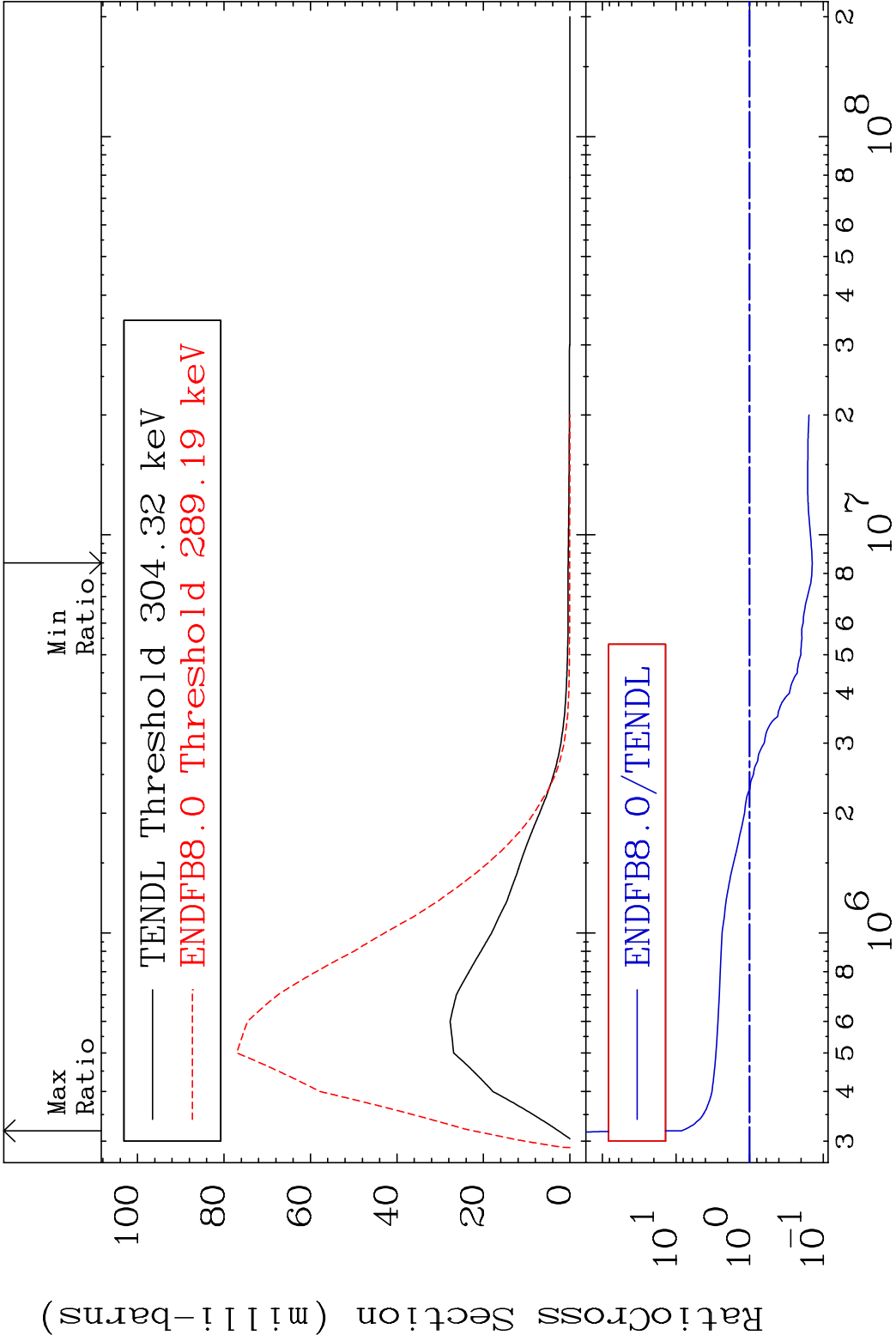
MAT 9031

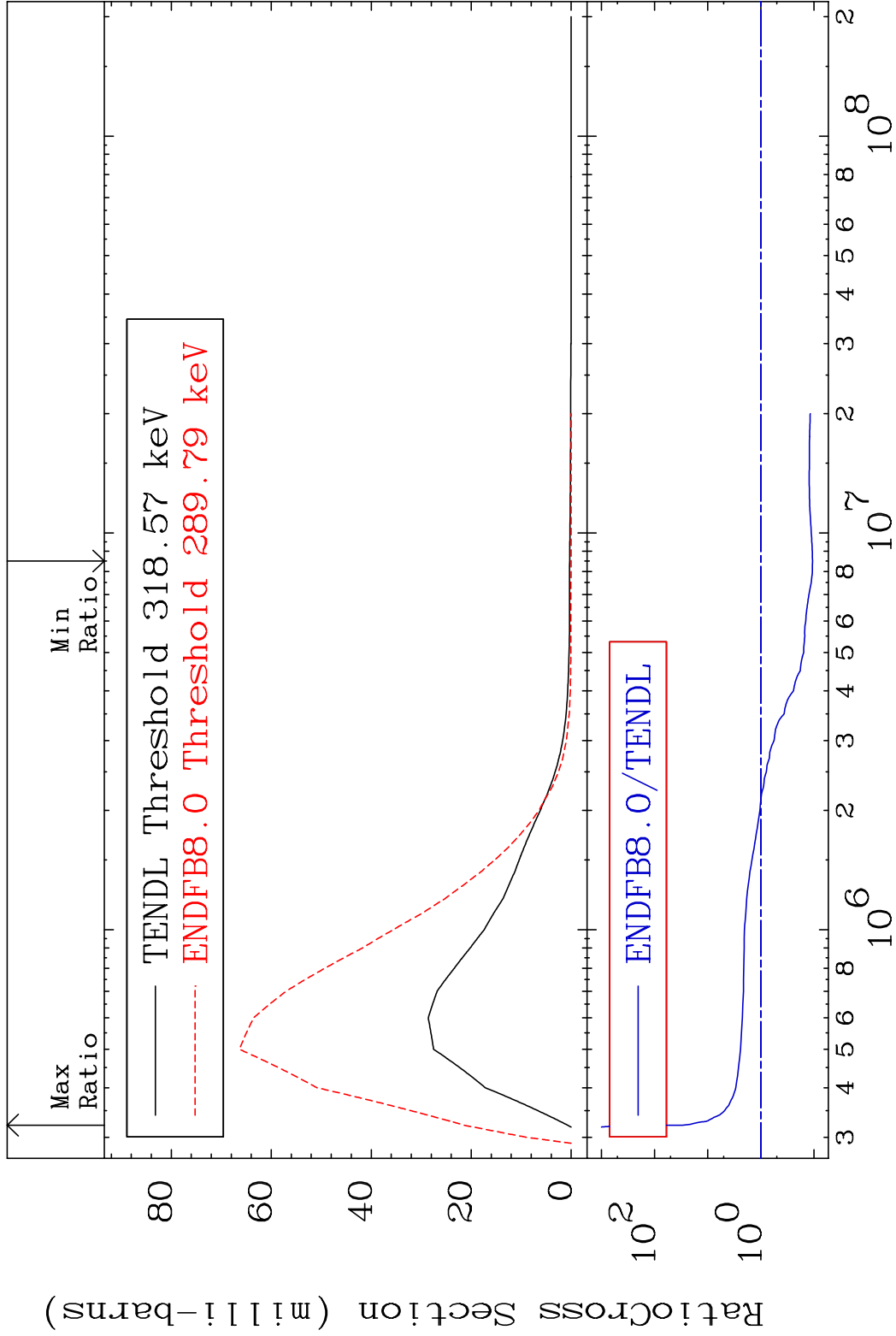
MT= 76 (n,n') Level

90-Th-229

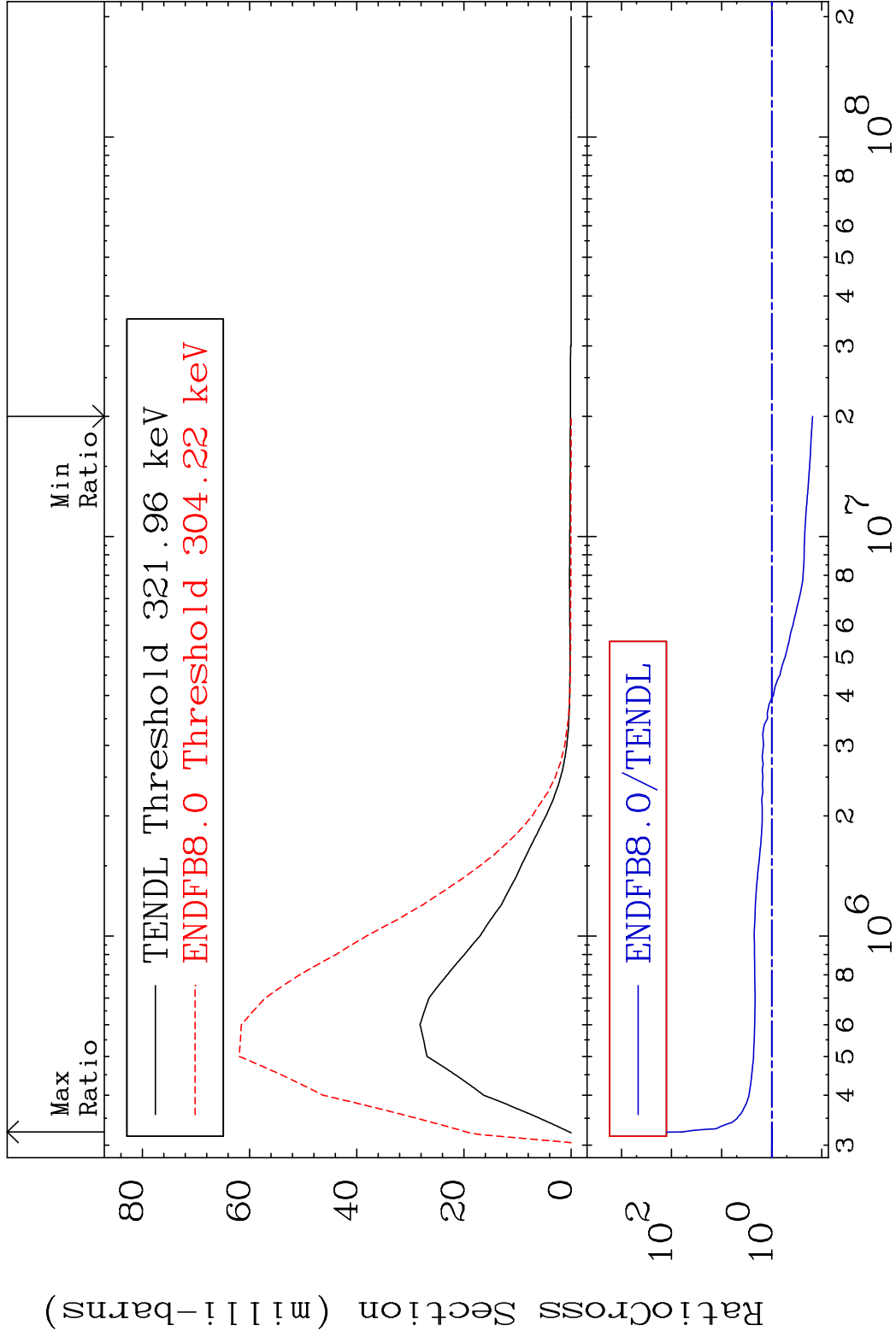
Cross Section

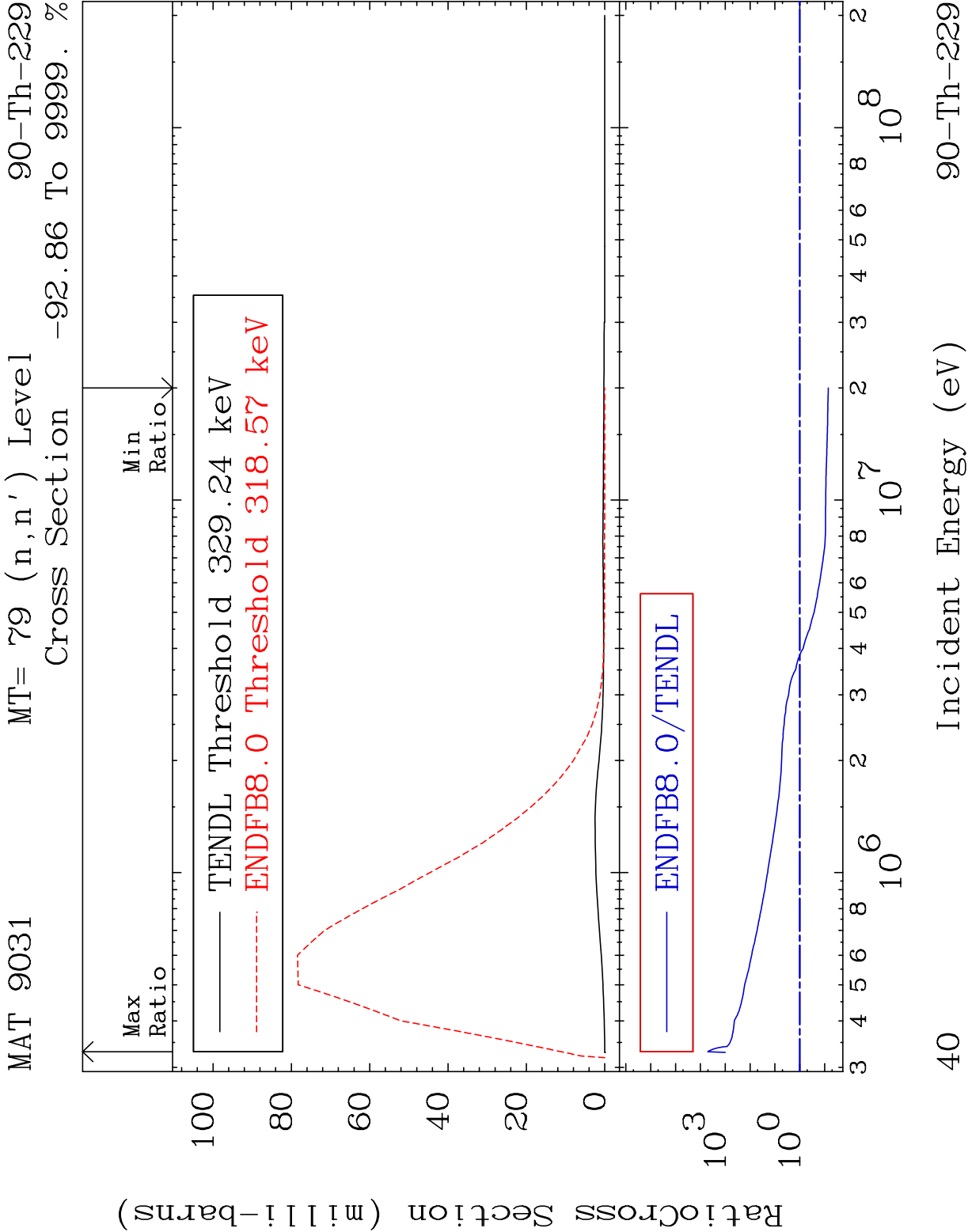
-85.87 To 741.6 %

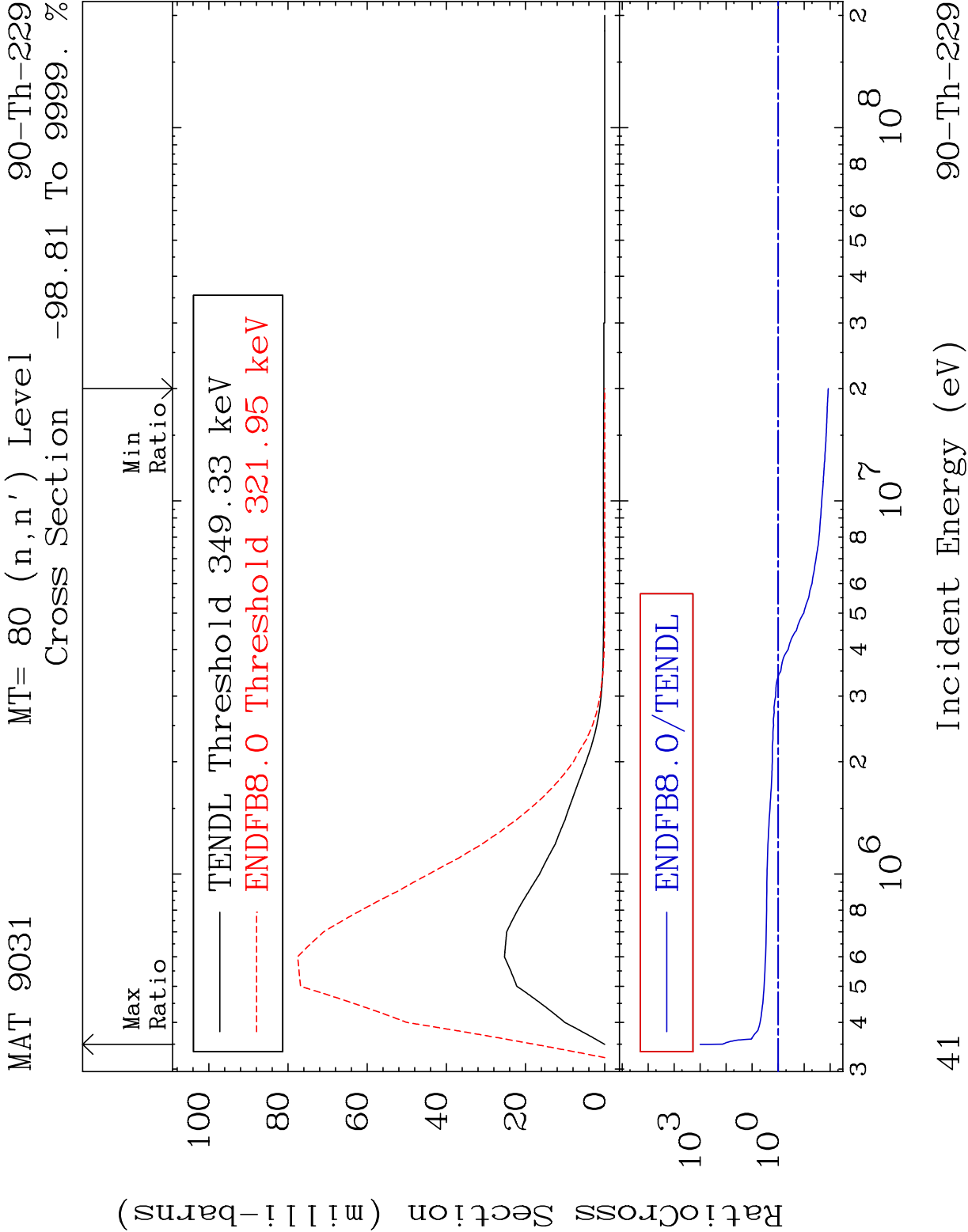


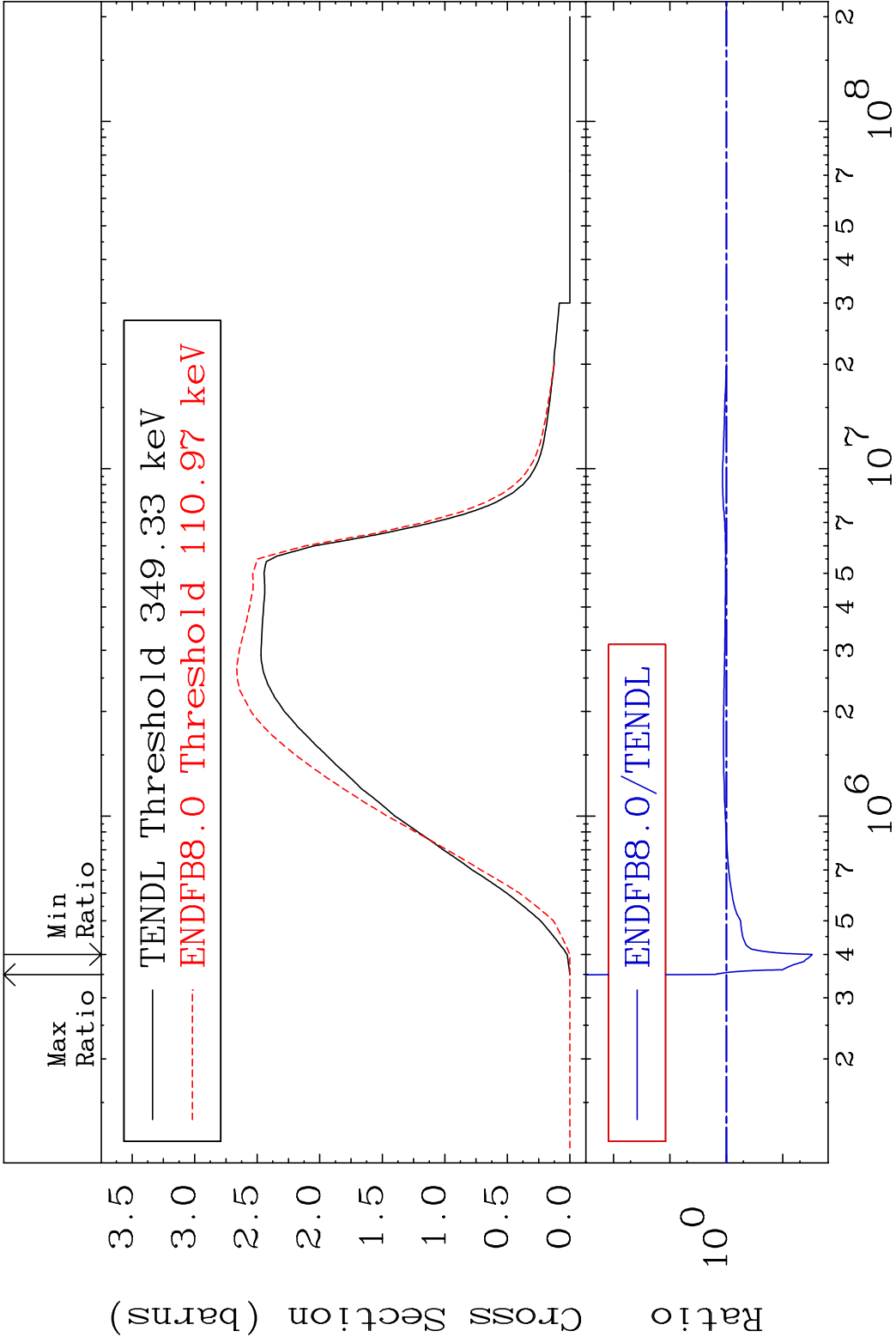


MAT 9031 MT= 78 (n,n') Level 90-Th-229
Cross Section -84.71 To 5983. %







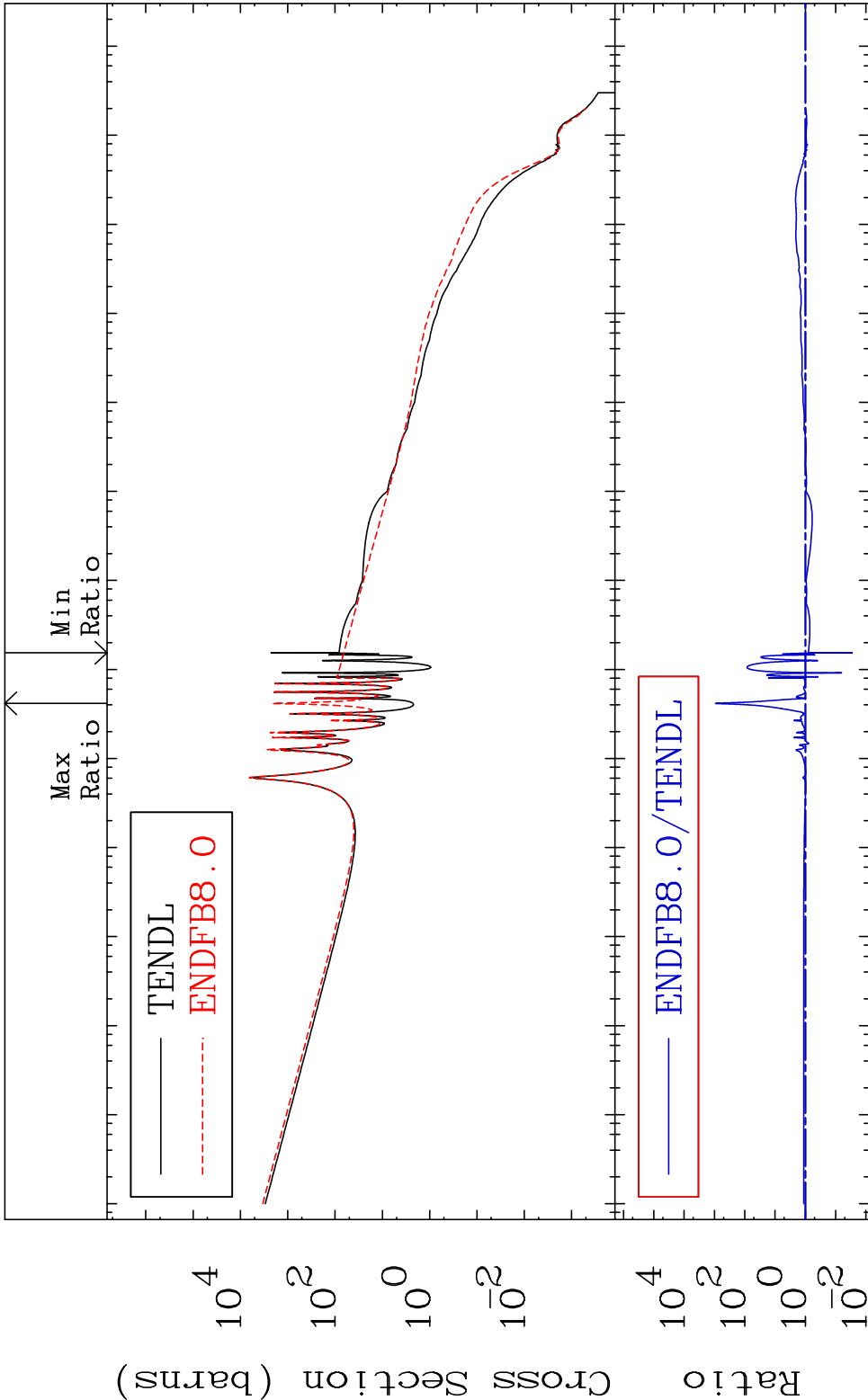


MAT 9031

(n, γ)

90-Th-229

Cross Section -97.14 To 9999. %

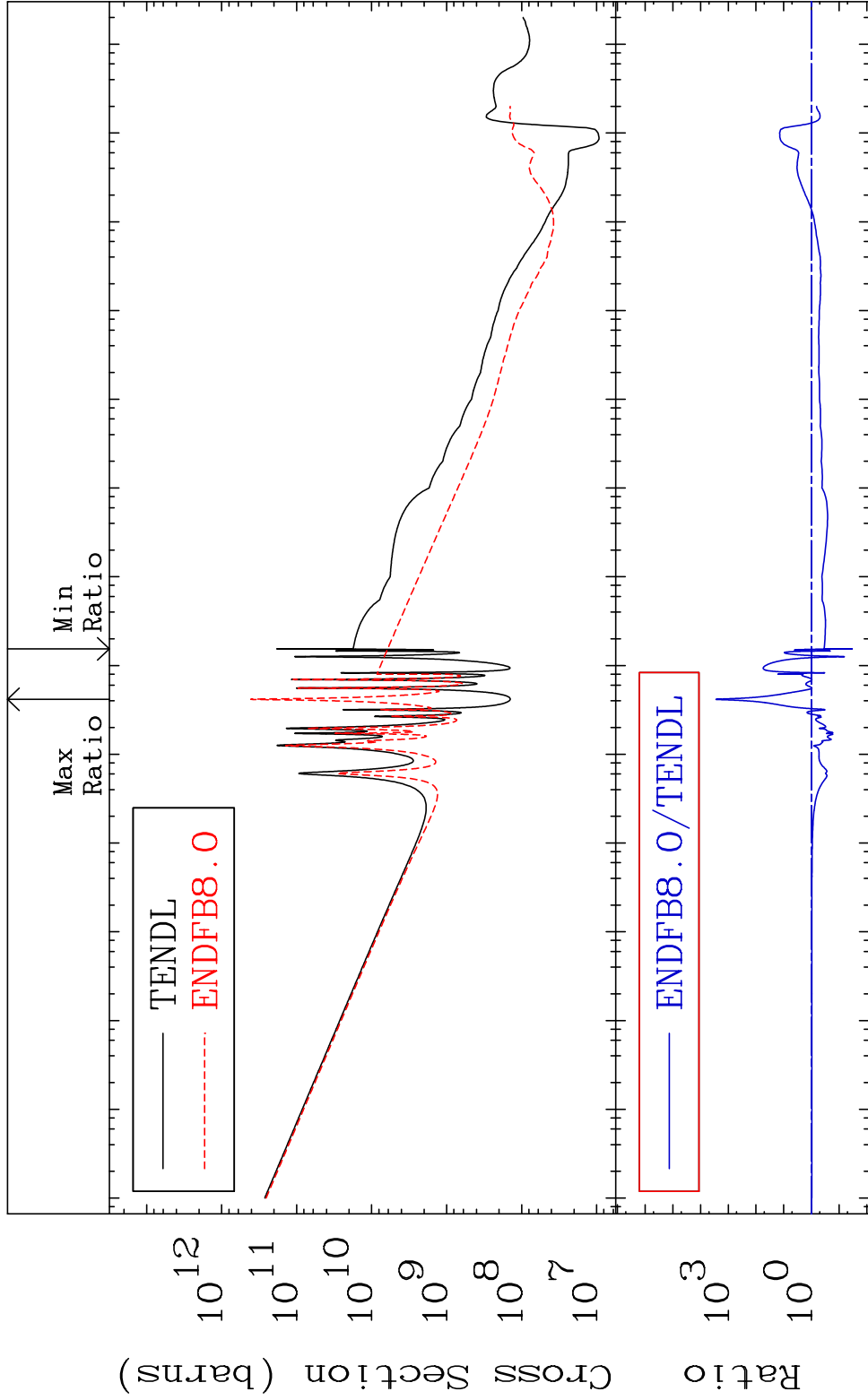


43

Incident Energy (eV)

90-Th-229

MAT 9031 Kerma total (eV-barns) 90-Th-229
Cross Section -96.65 To 9999. %

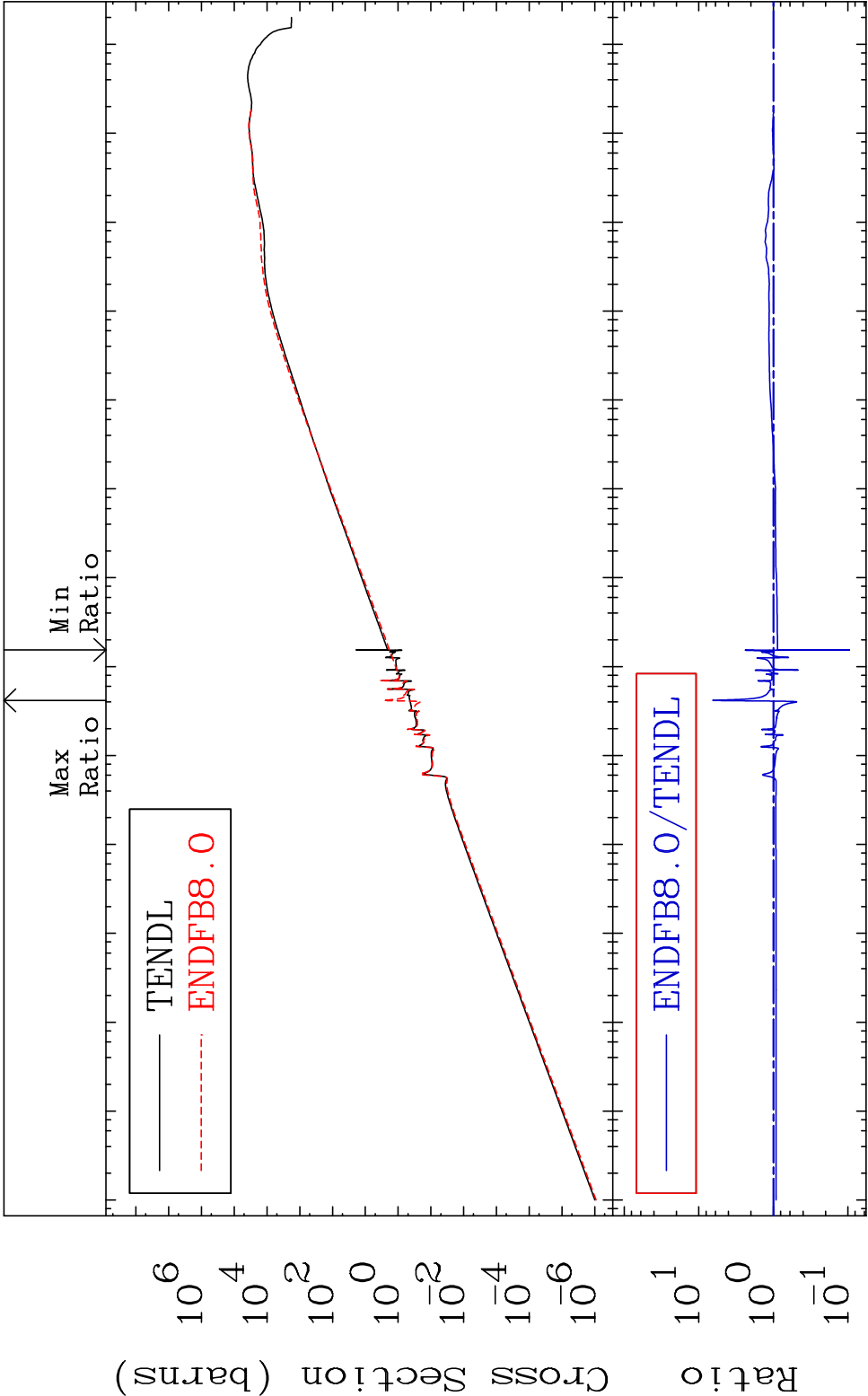


10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 9031

Kerma elastic
Cross Section

90-Th-229
-90.47 To 549.5 %



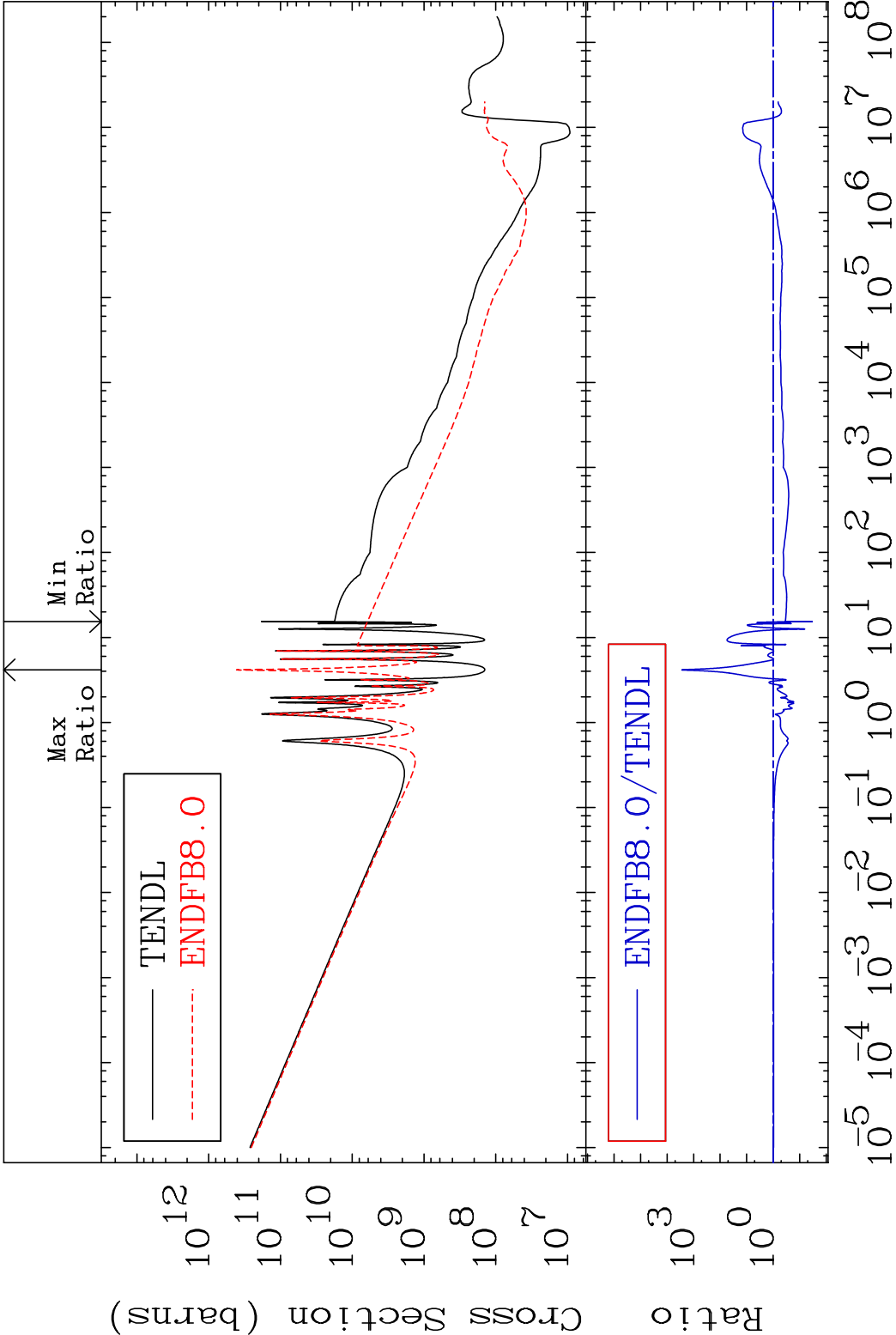
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

45

Incident Energy (eV)

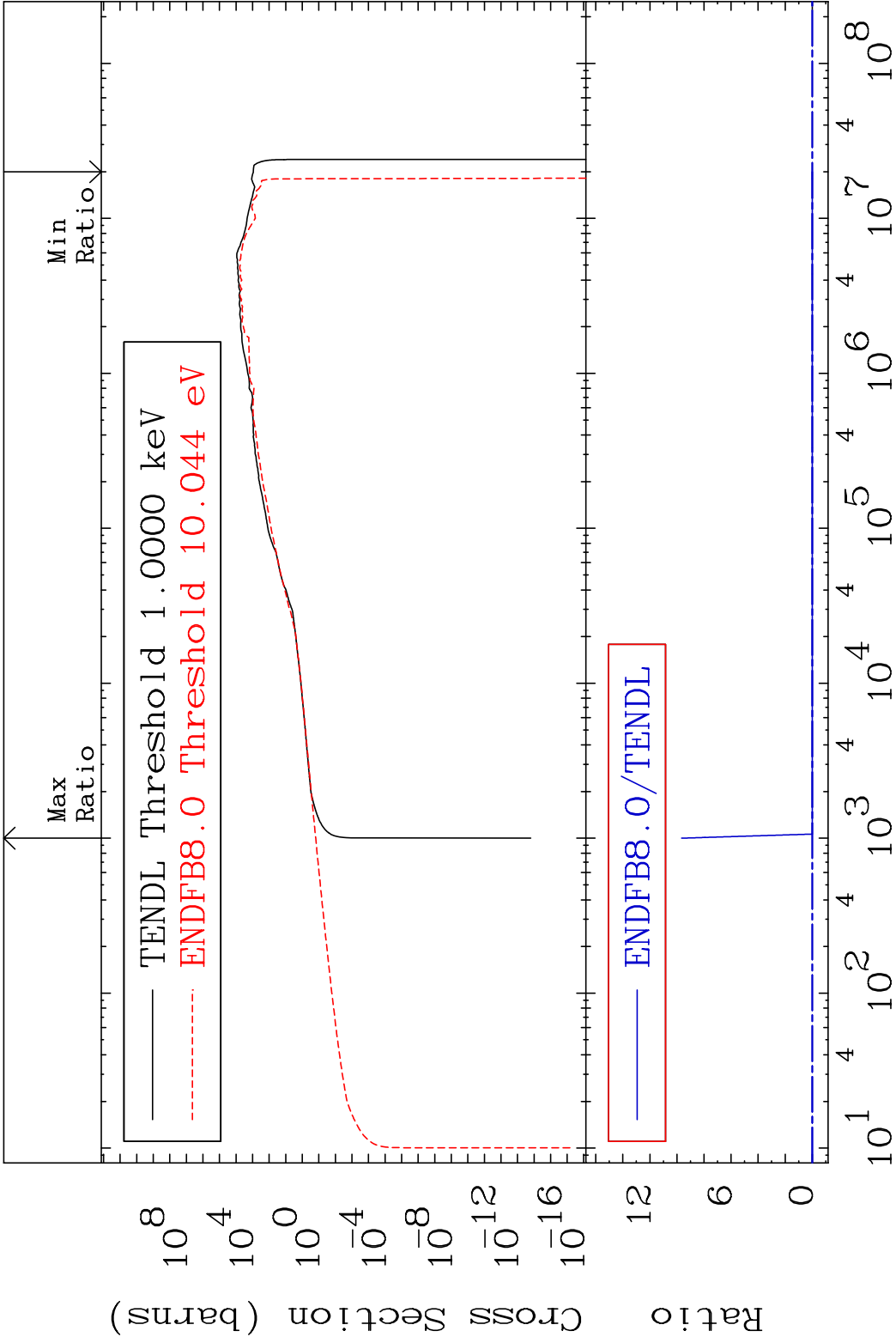
90-Th-229

MAT 9031 Kerma non-elastic (all but mt2) 90-Th-229
Cross Section -96.65 To 9999. %



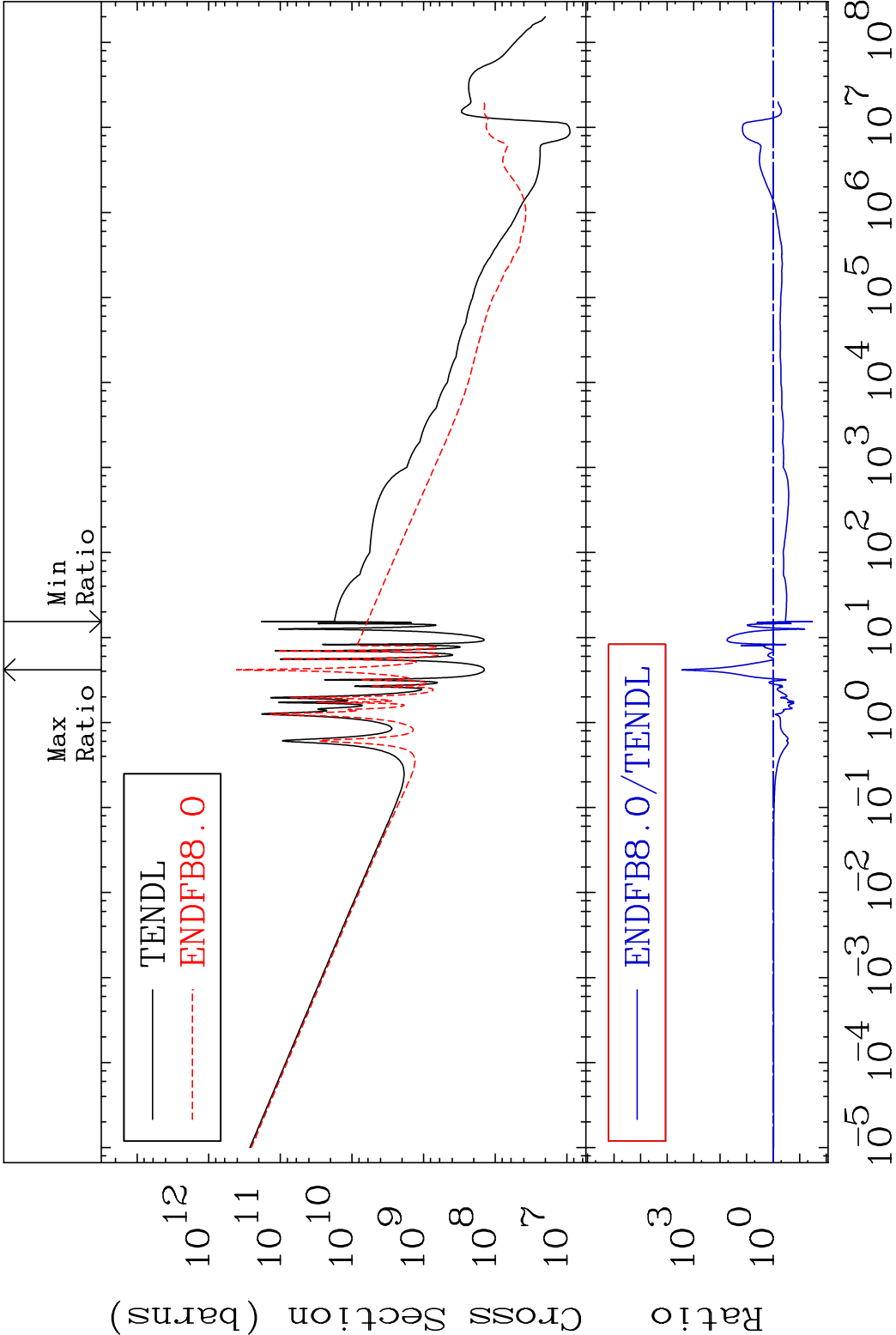
46 Incident Energy (eV) 90-Th-229

MAT 9031 Kerma inelastic (mt51-91) 90-Th-229
Cross Section -122.5 To 9999. %



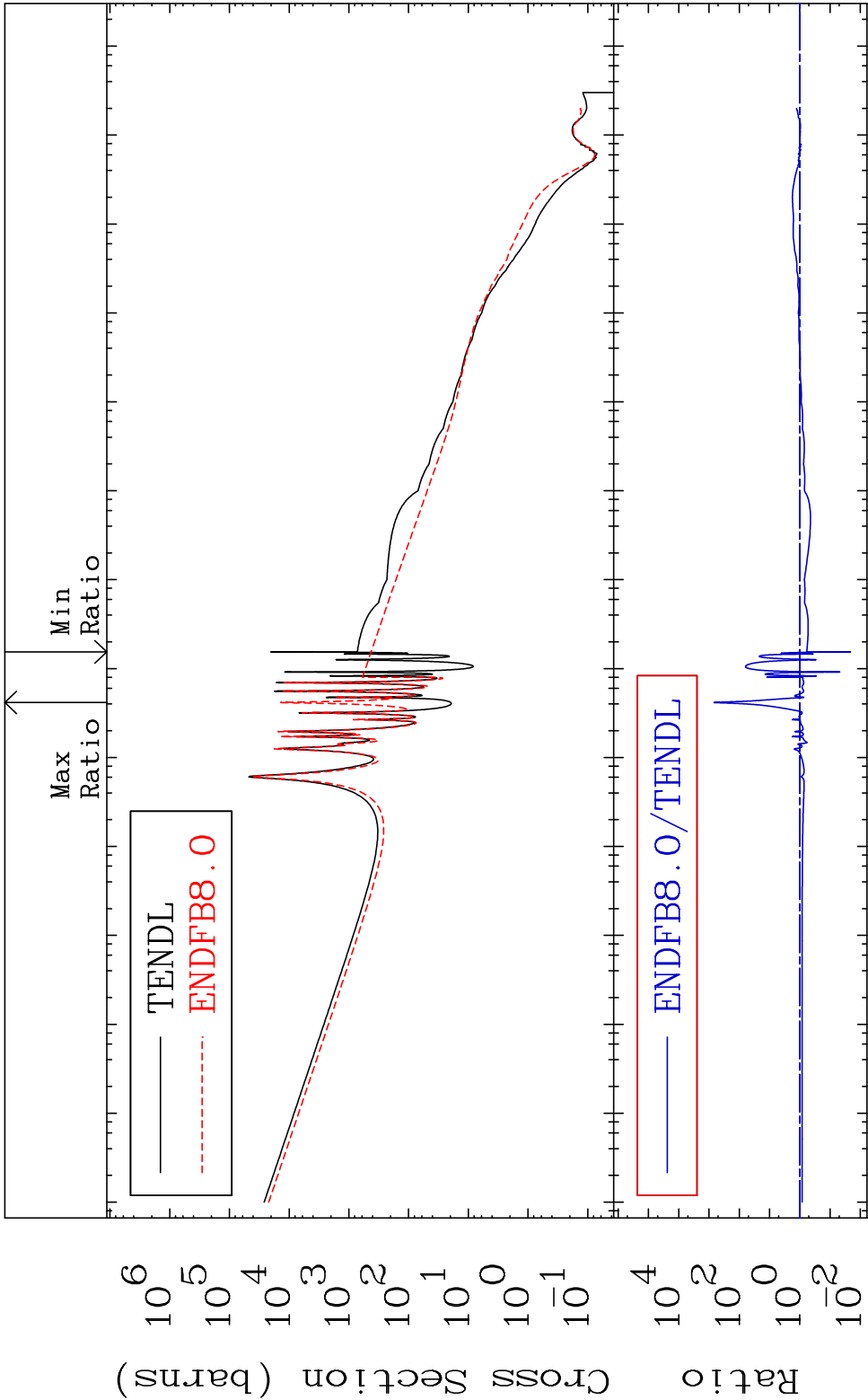
47 Incident Energy (eV) 90-Th-229

MAT 9031 Kerma fission (mt18 or mt19-20-21-38)90-Th-229
Cross Section -96.65 To 9999. %



48 Incident Energy (eV) 90-Th-229

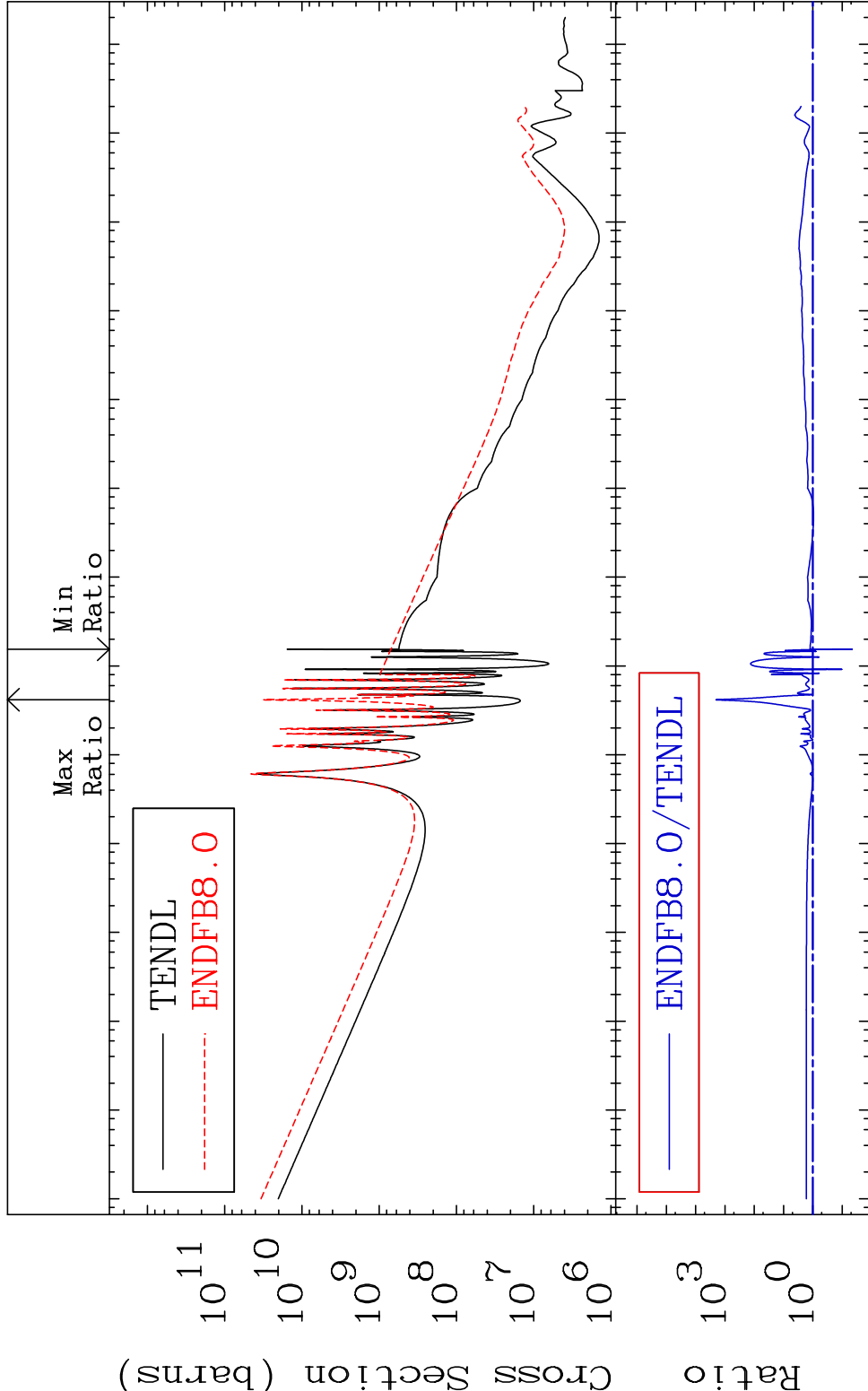
MAT 9031 Kerma capture (mt102) 90-Th-229
Cross Section -97.88 To 9999. %



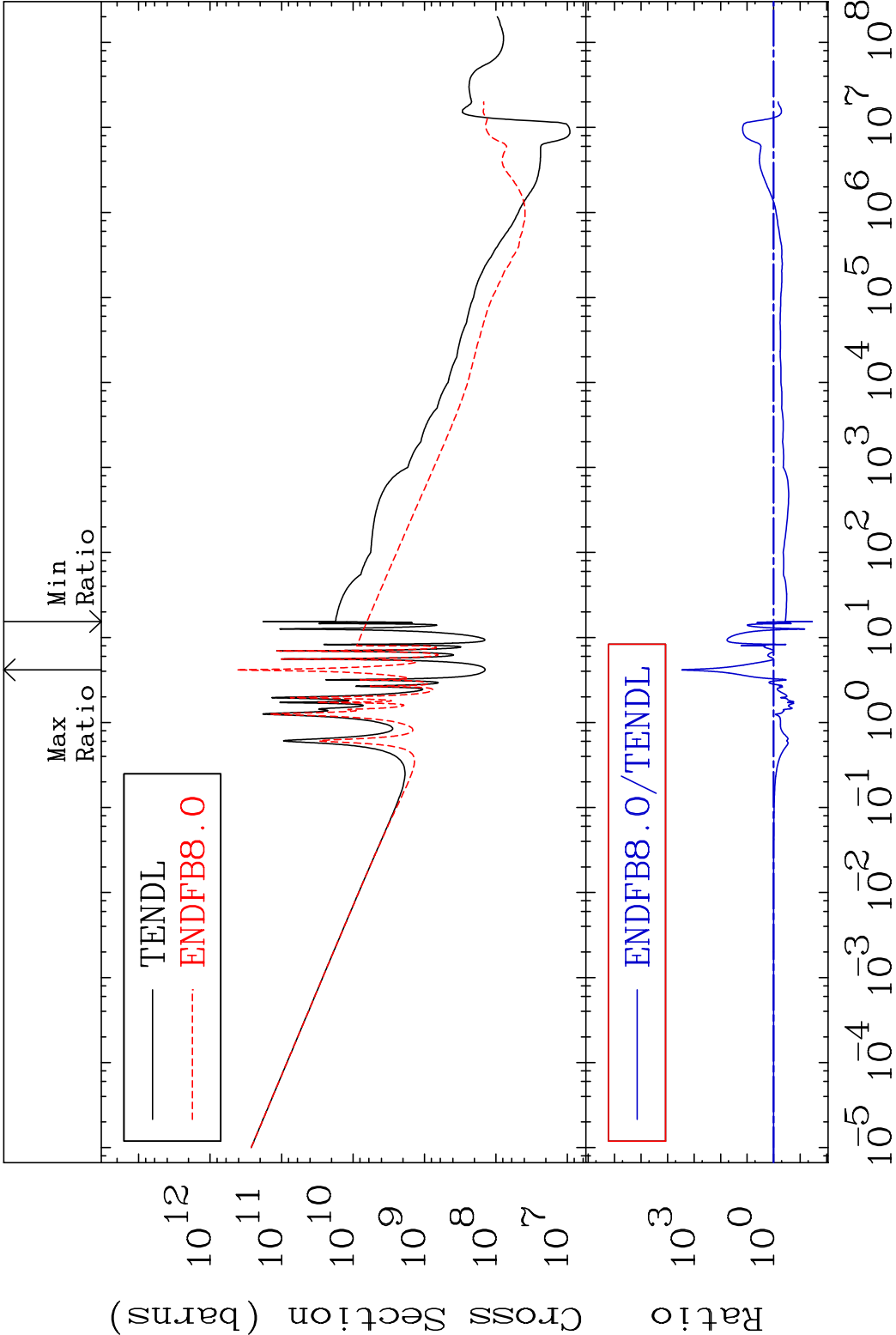
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

49 Incident Energy (eV) 90-Th-229

MAT 9031 Total photon (eV-barns) 90-Th-229
Cross Section -95.46 To 9999. %



MAT 9031 Total kinematic kerma (high limit) 90-Th-229
Cross Section -96.51 To 9999. %



51 Incident Energy (eV) 90-Th-229

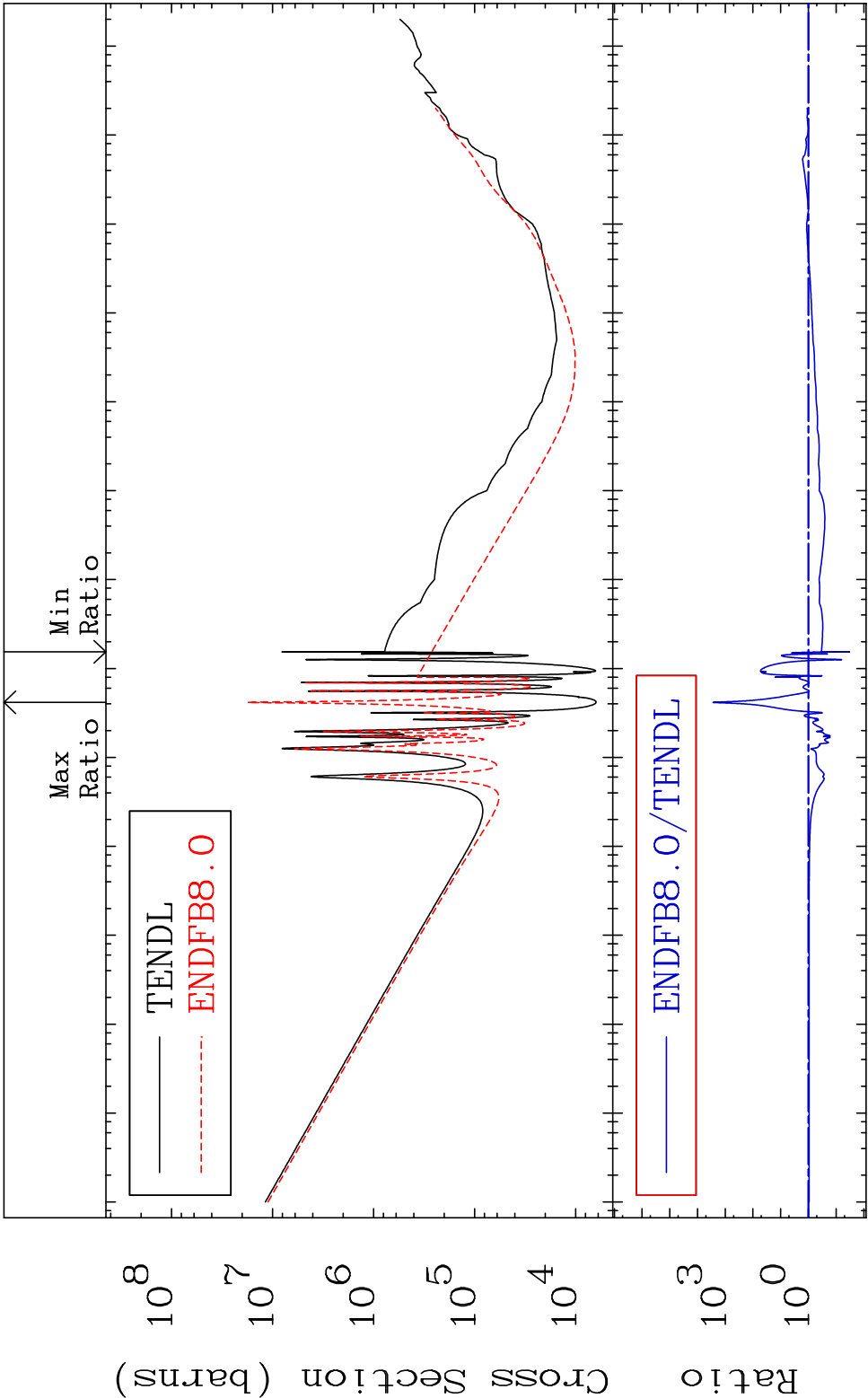
MAT 9031

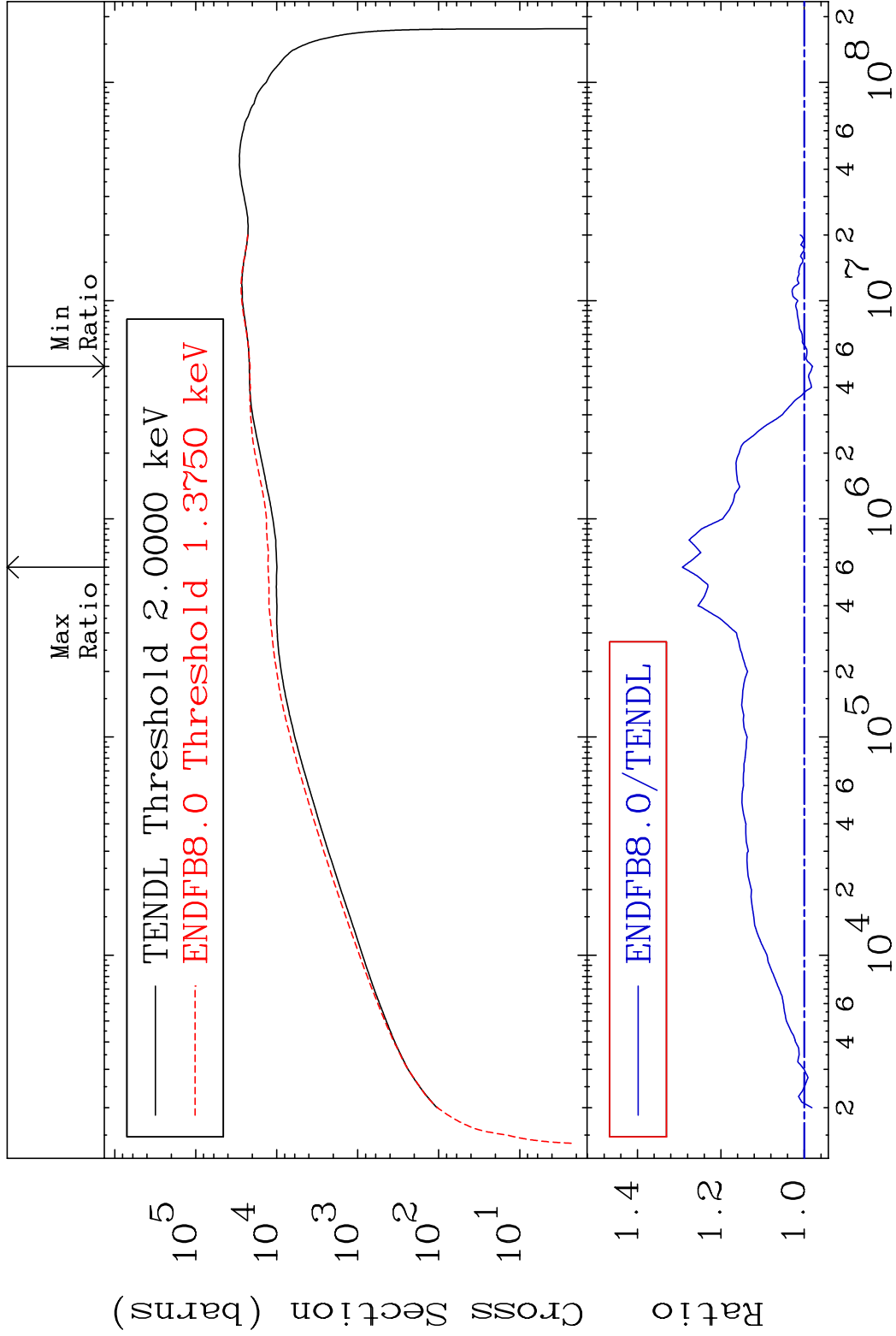
Dpa total (eV-barns)

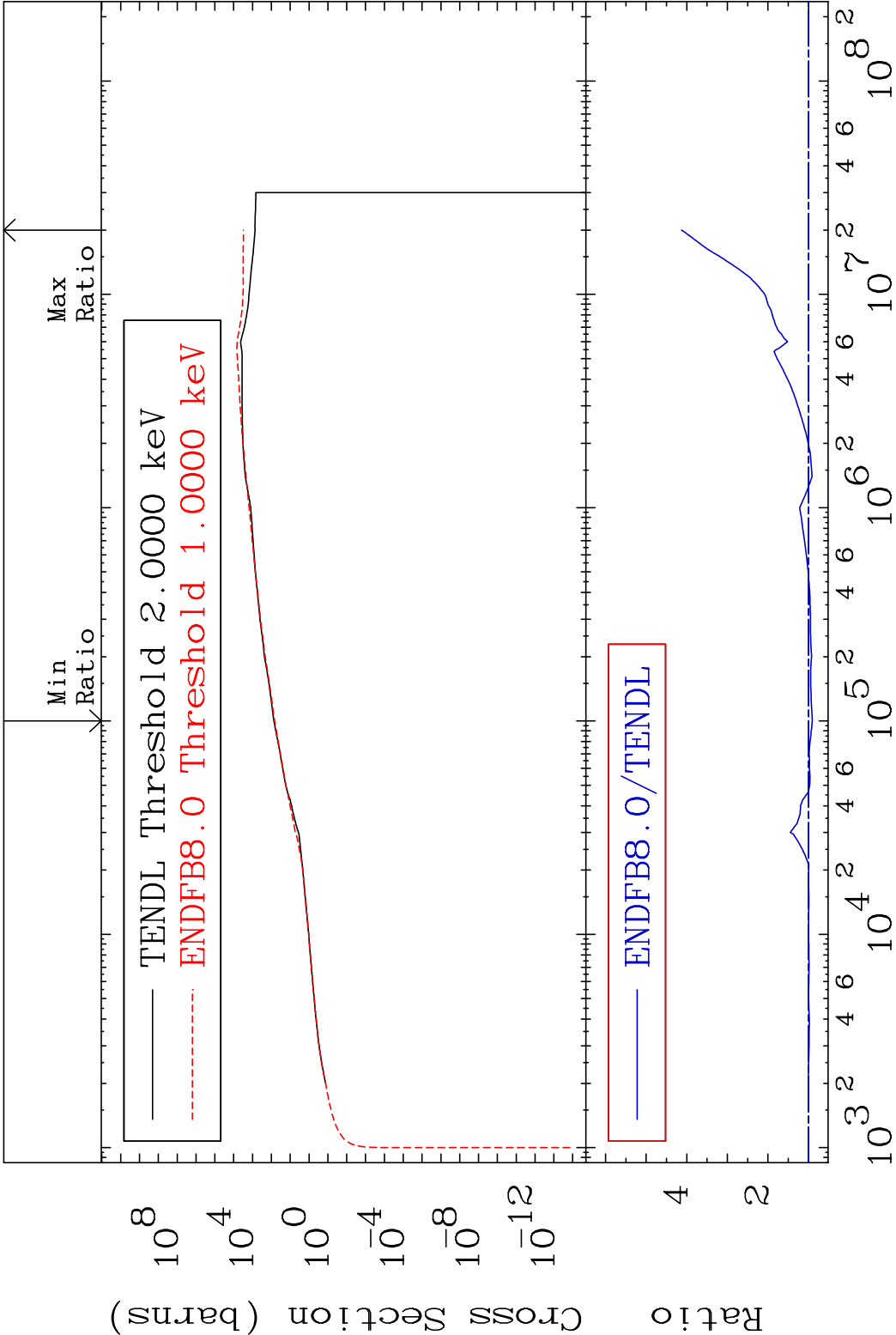
90-Th-229

Cross Section

-96.71 To 9999. %







MAT 9031 Dpa disappearance (mt102 -120) 90-Th-229
Cross Section -100.0 To 9999. %

