

Program Complot
(Version 2021-1)

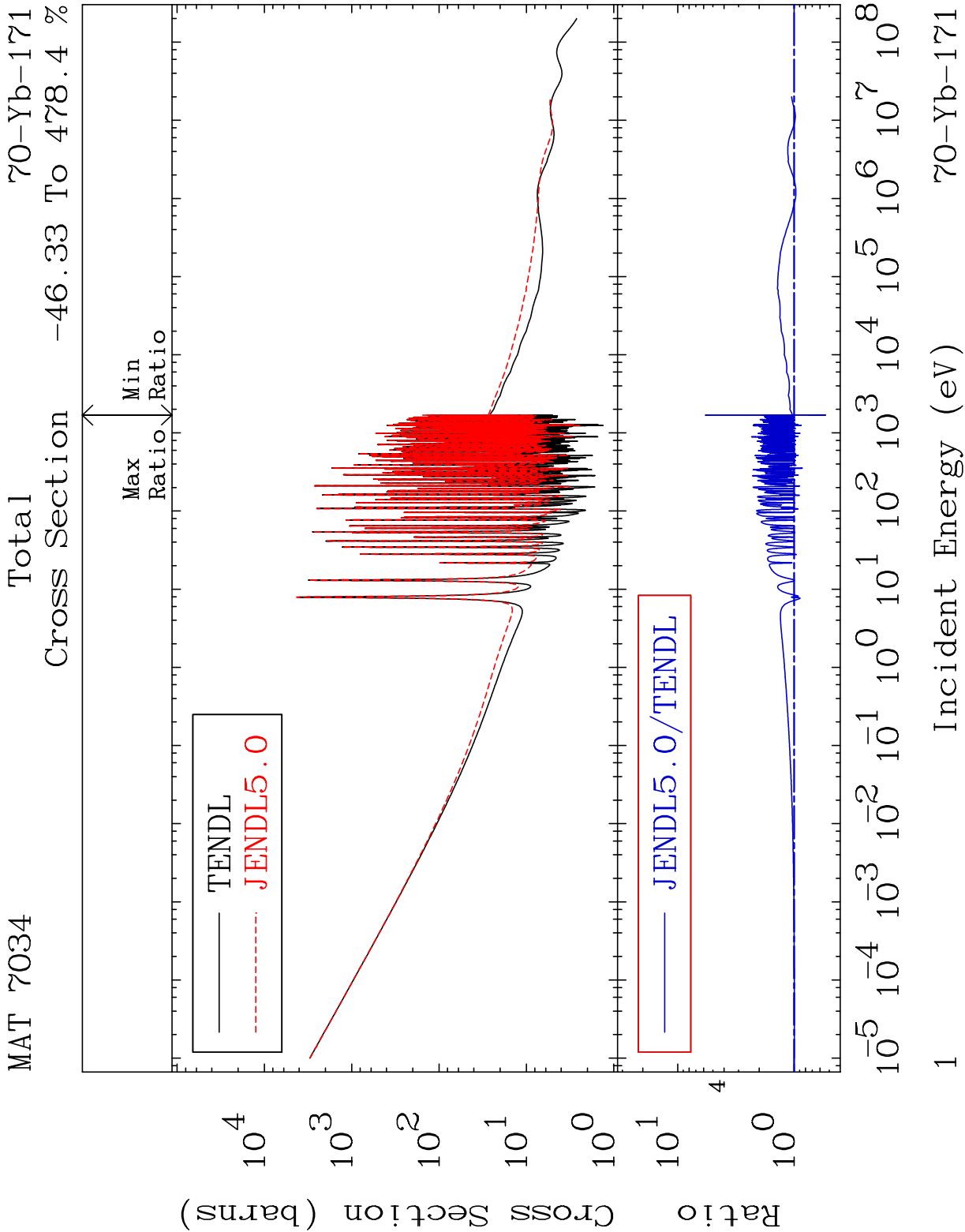
by

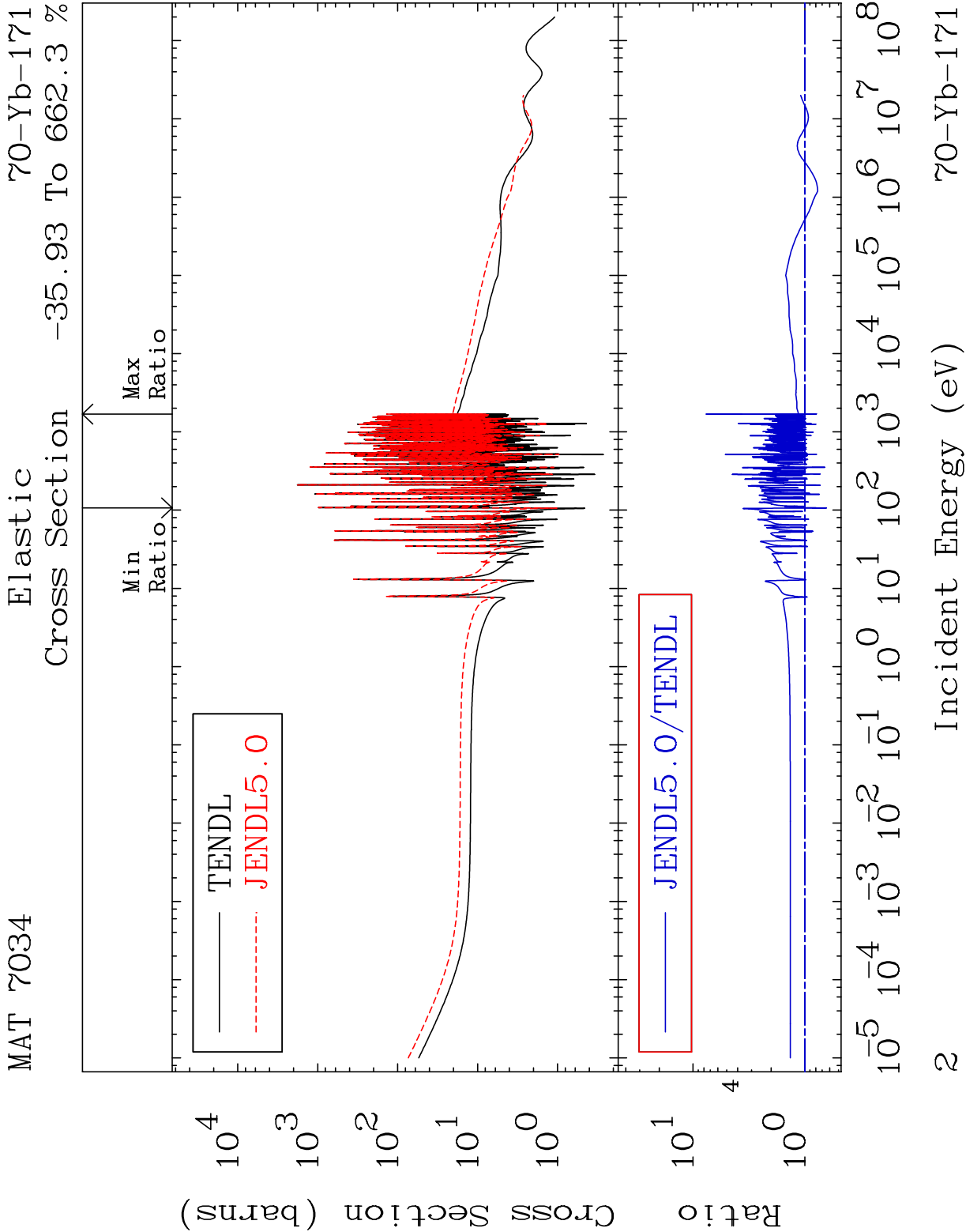
Dermott E. Cullen
(Present Contact Information)

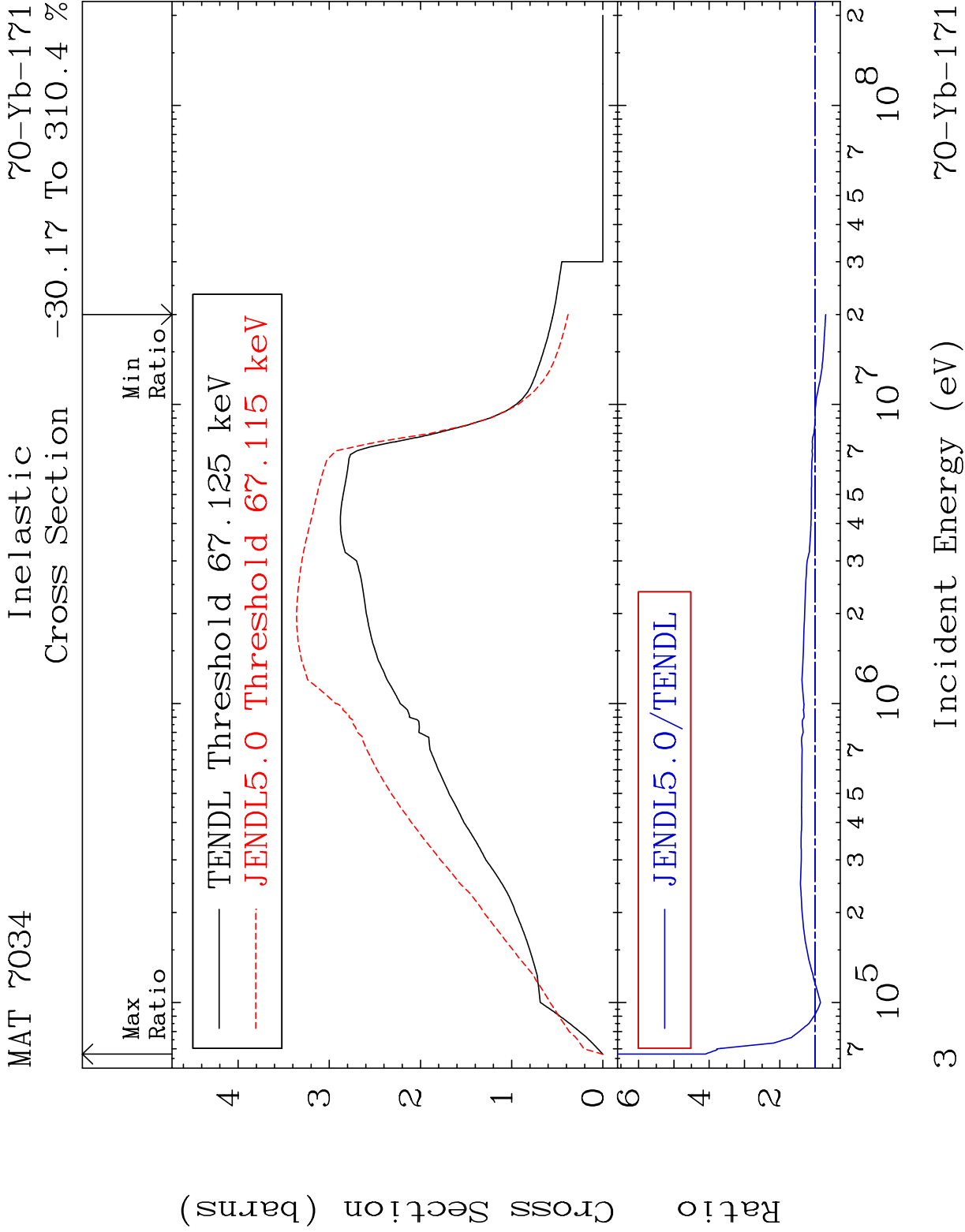
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

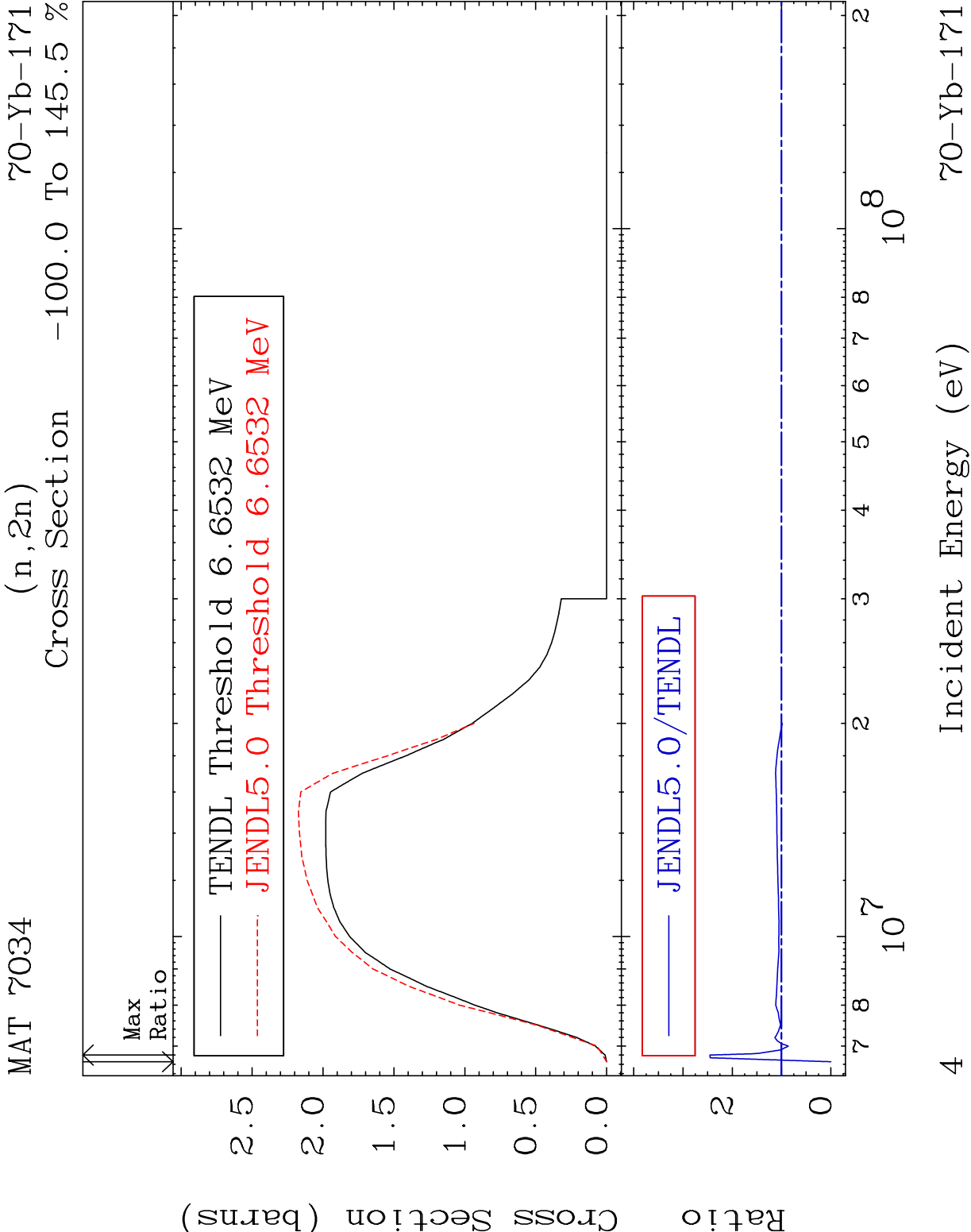
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

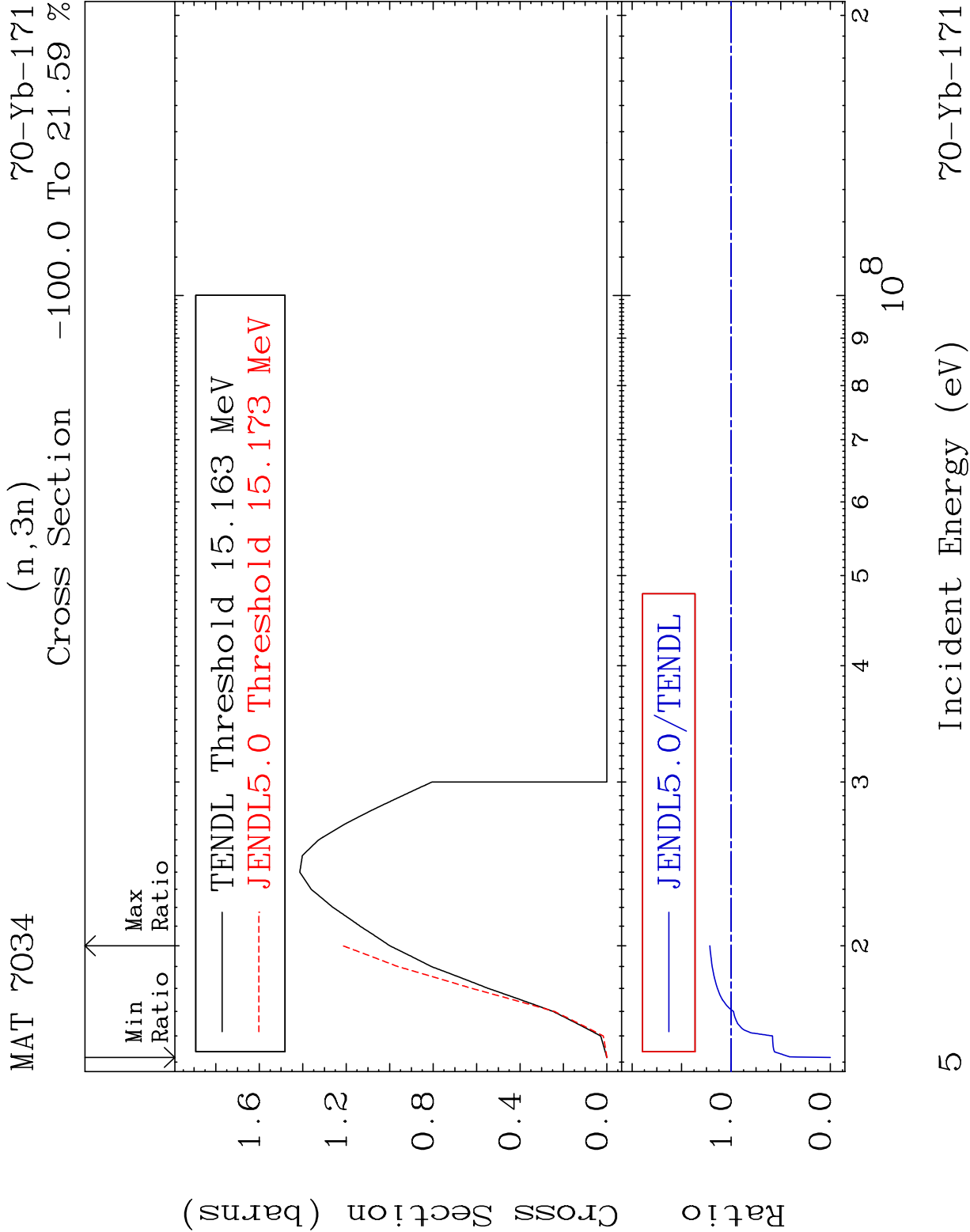
Press Mouse Button to Start

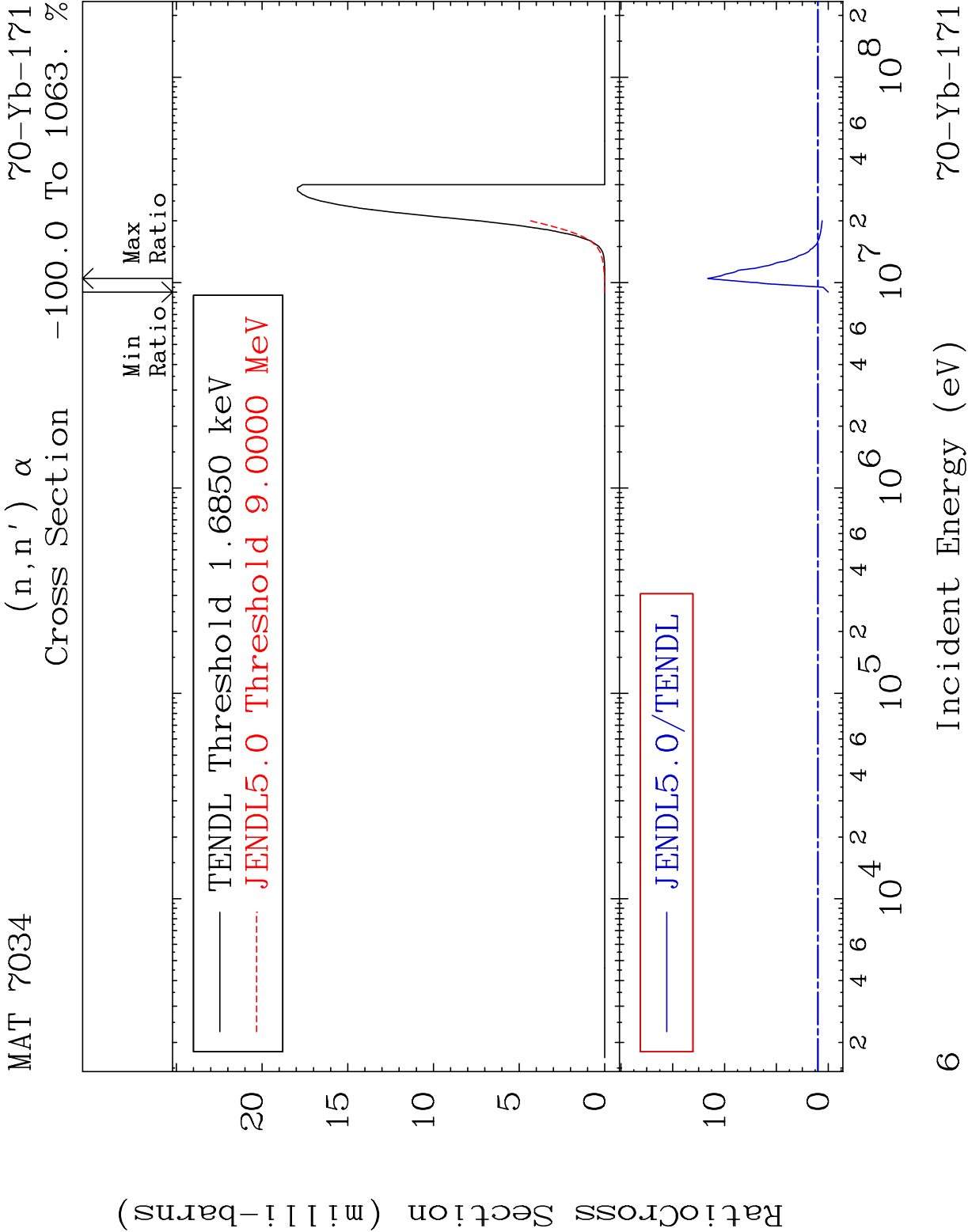


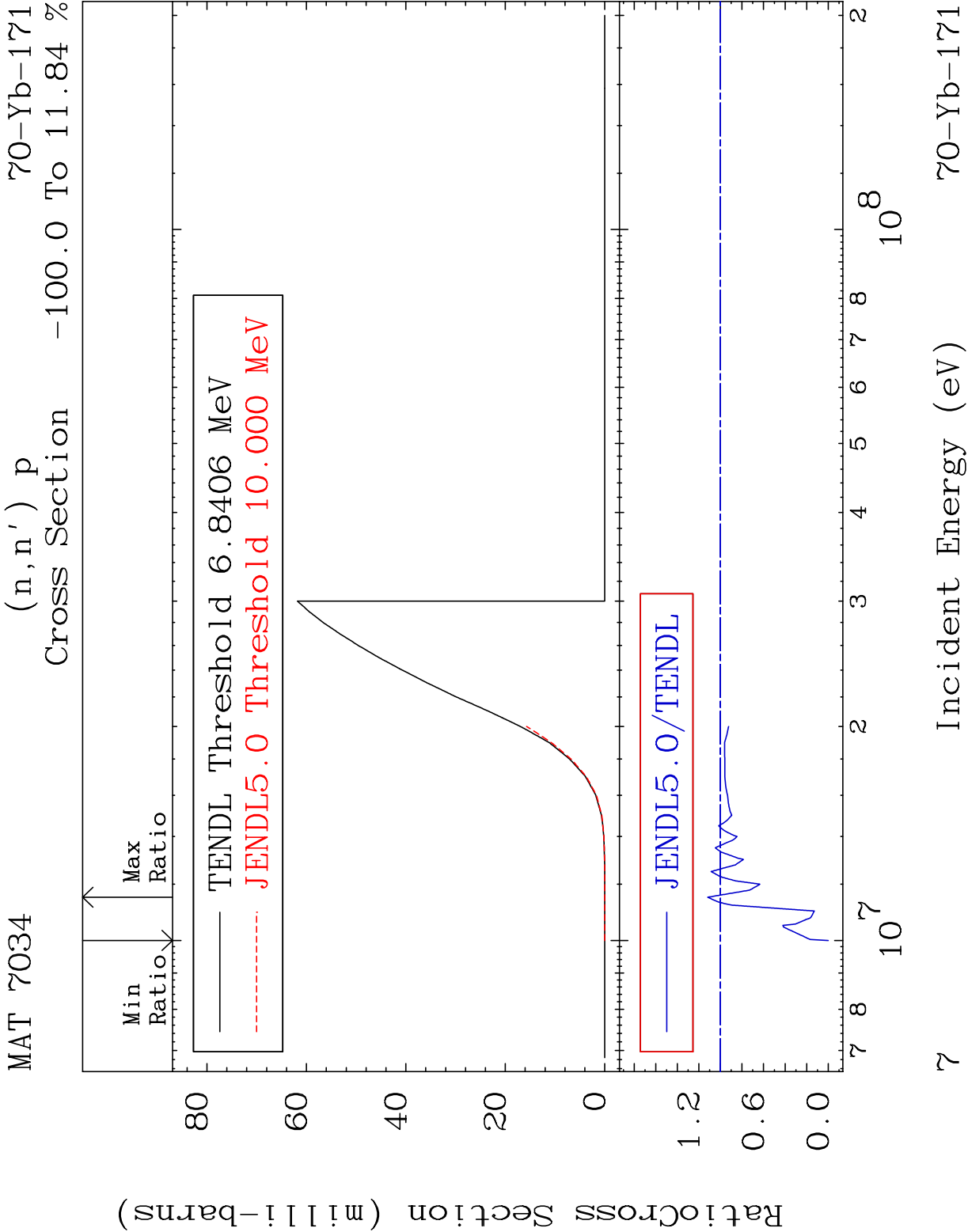


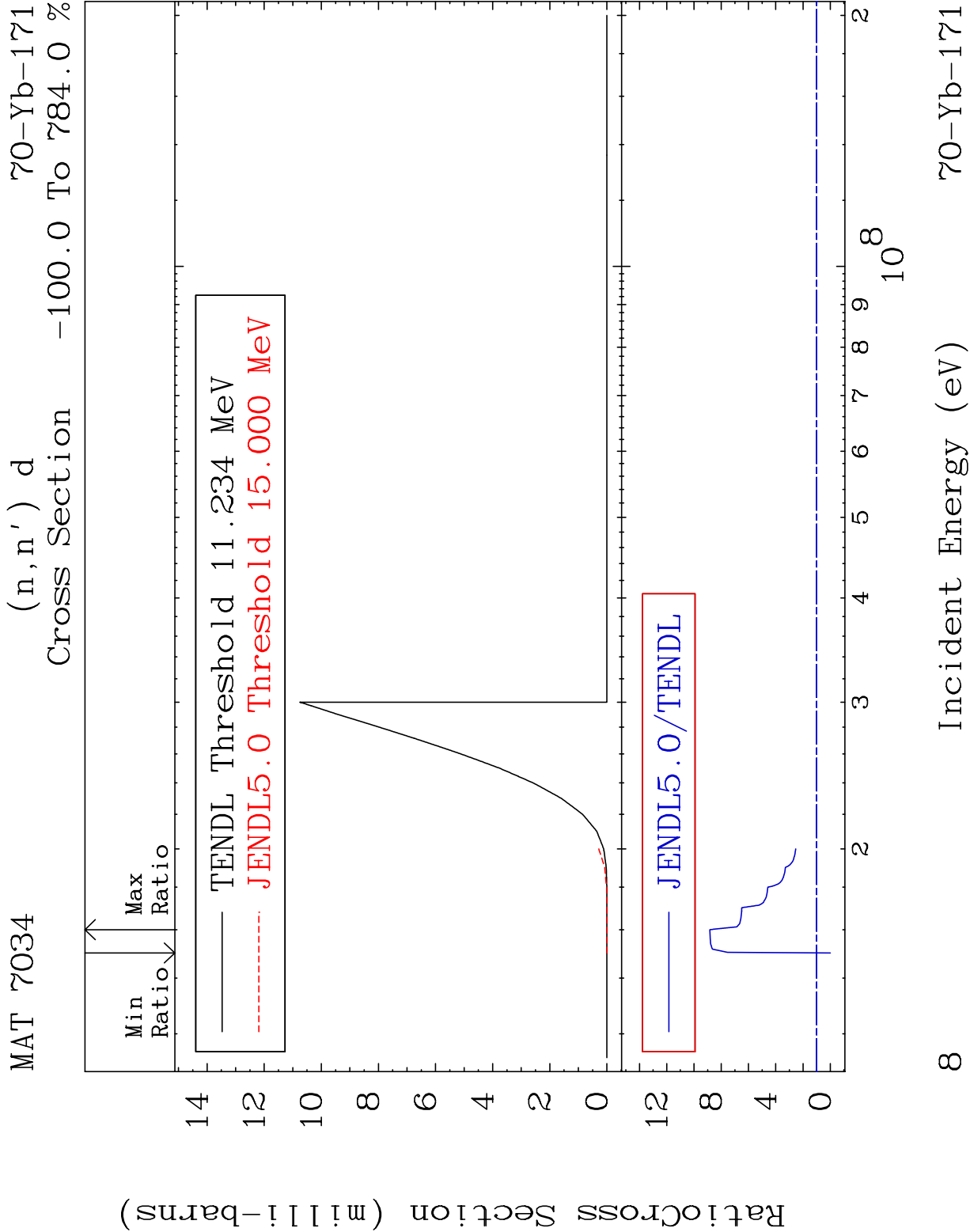




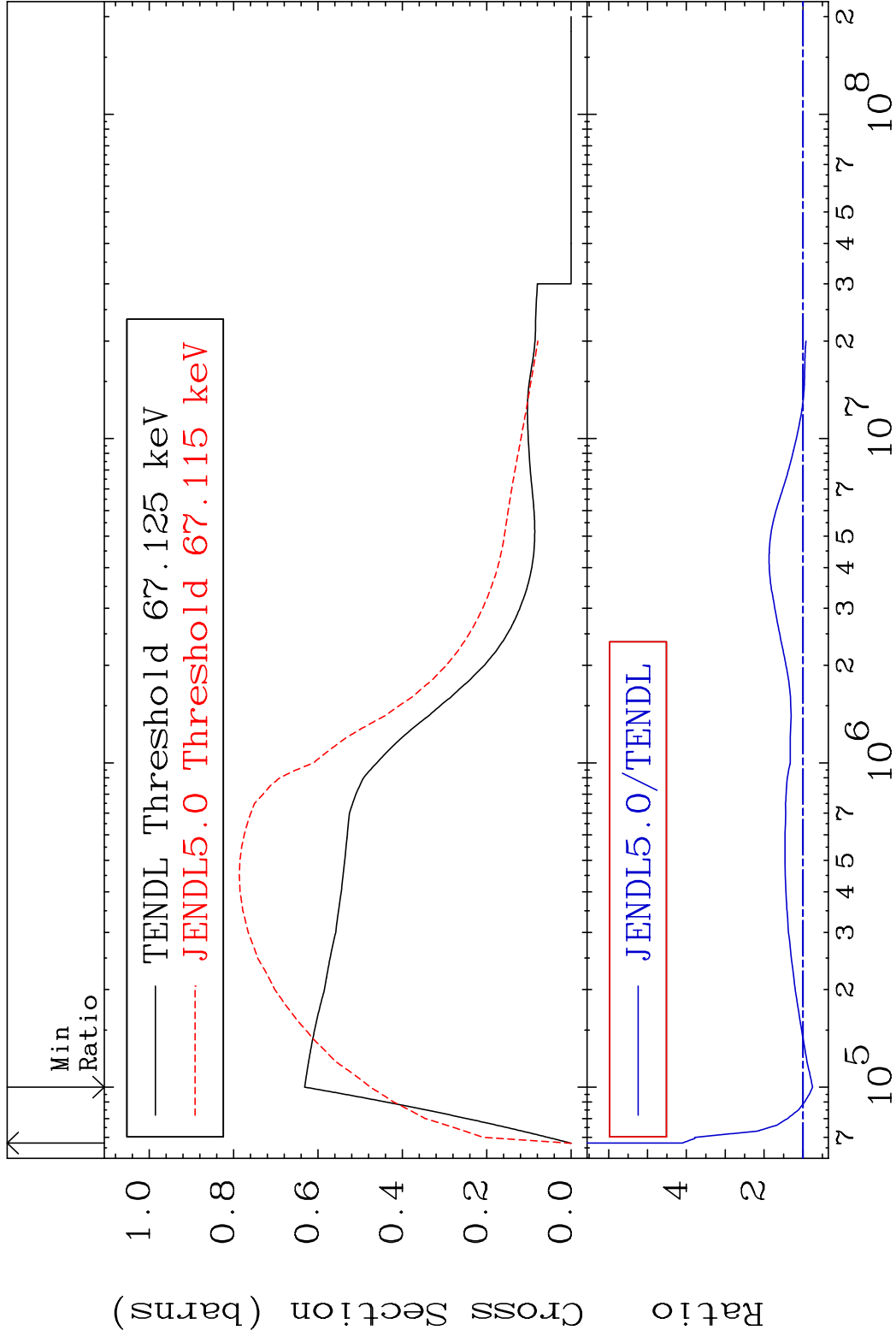


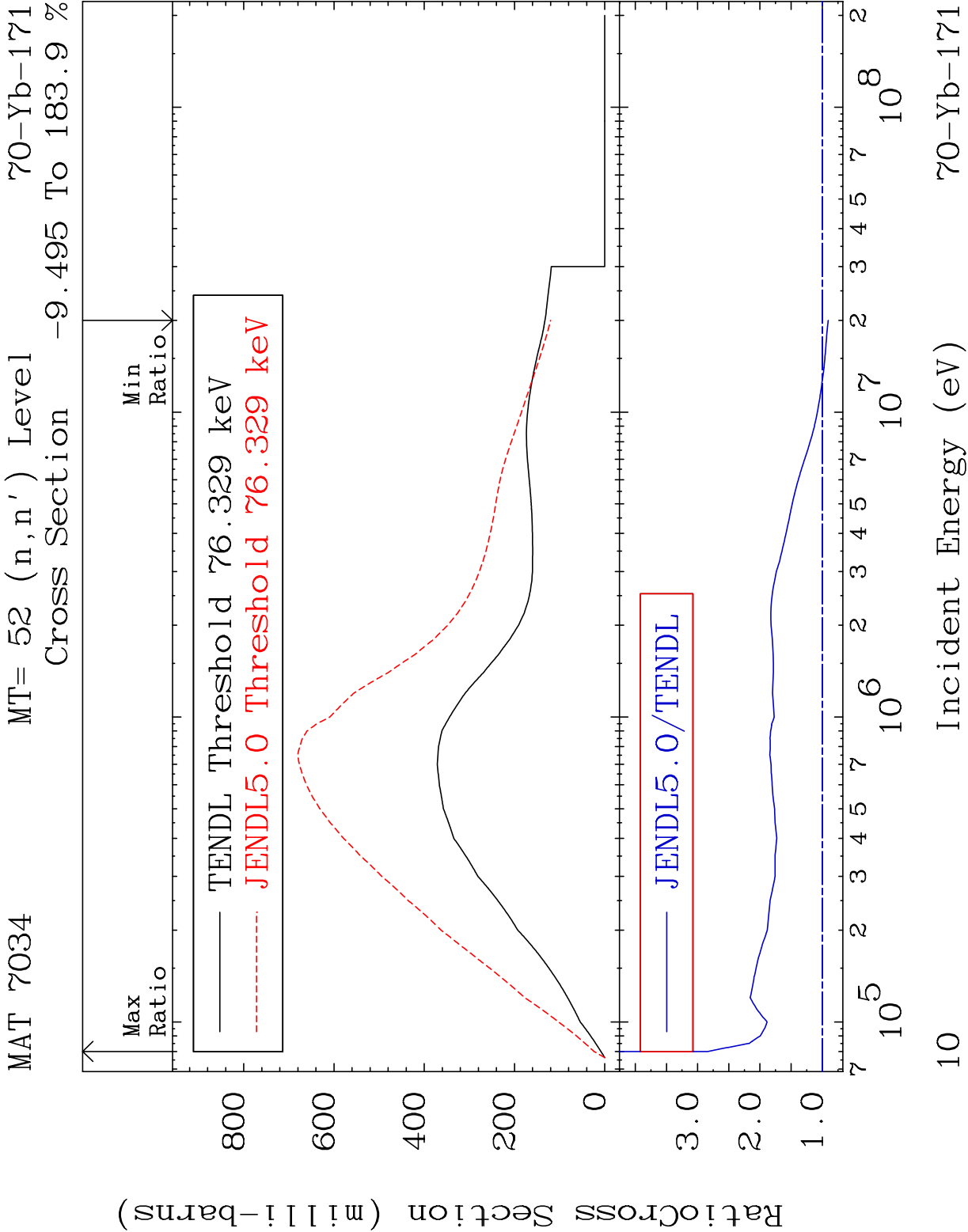




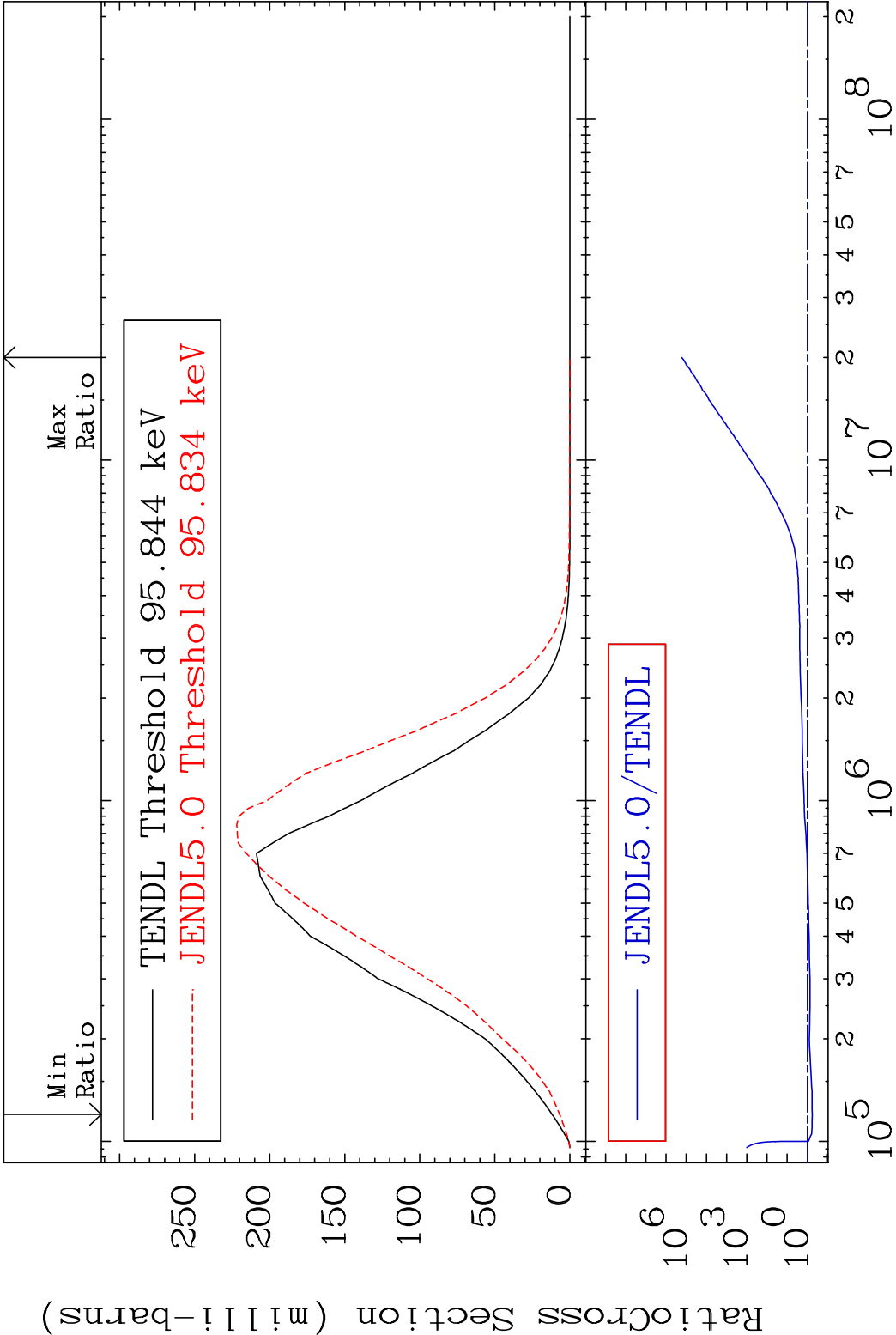


MAT 7034 MT= 51 (n,n') Level 70-Yb-171
Cross Section -24.64 To 310.4 %



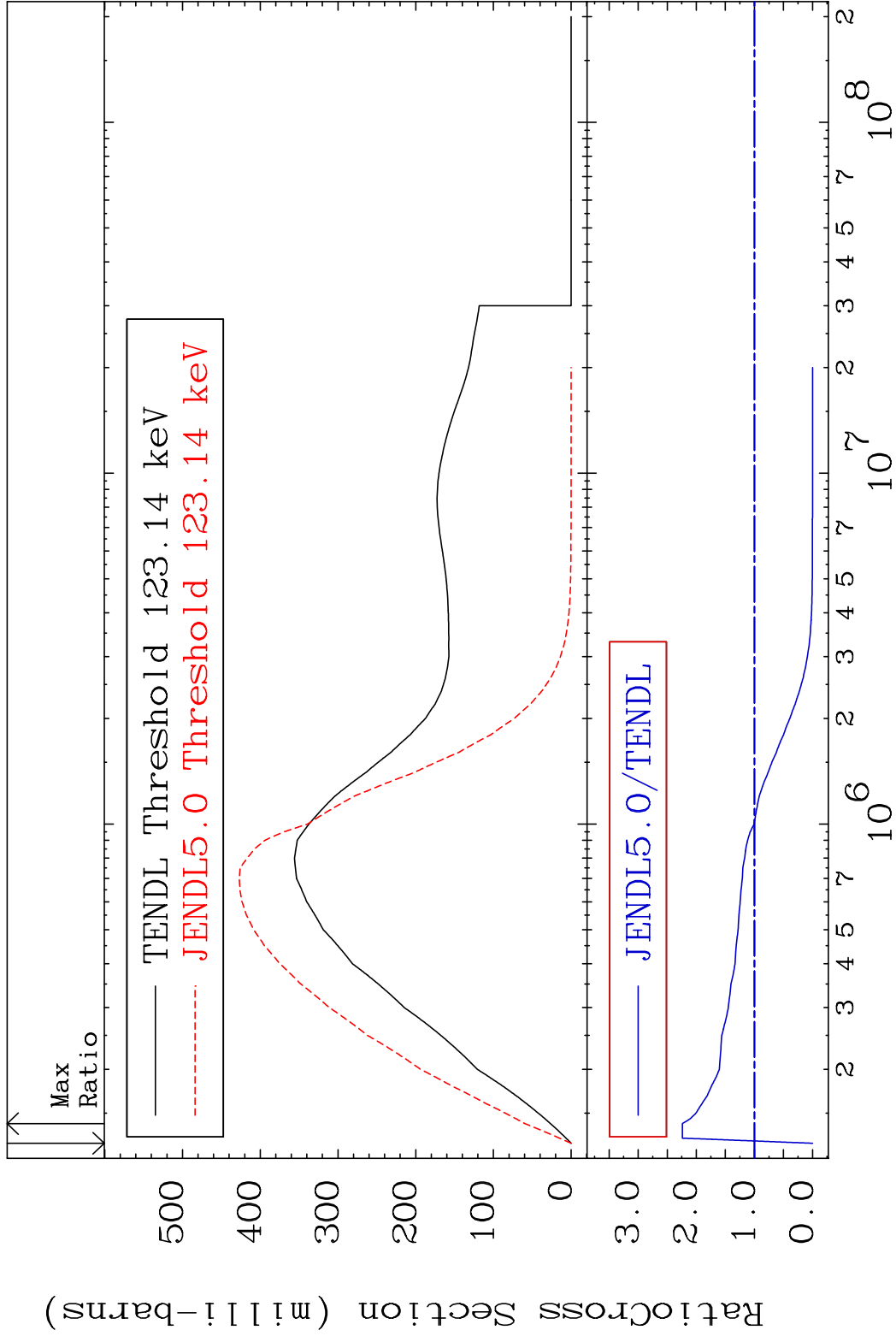


MAT 7034 MT= 53 (n,n') Level 70-Yb-171
Cross Section -42.58 To 9999. %

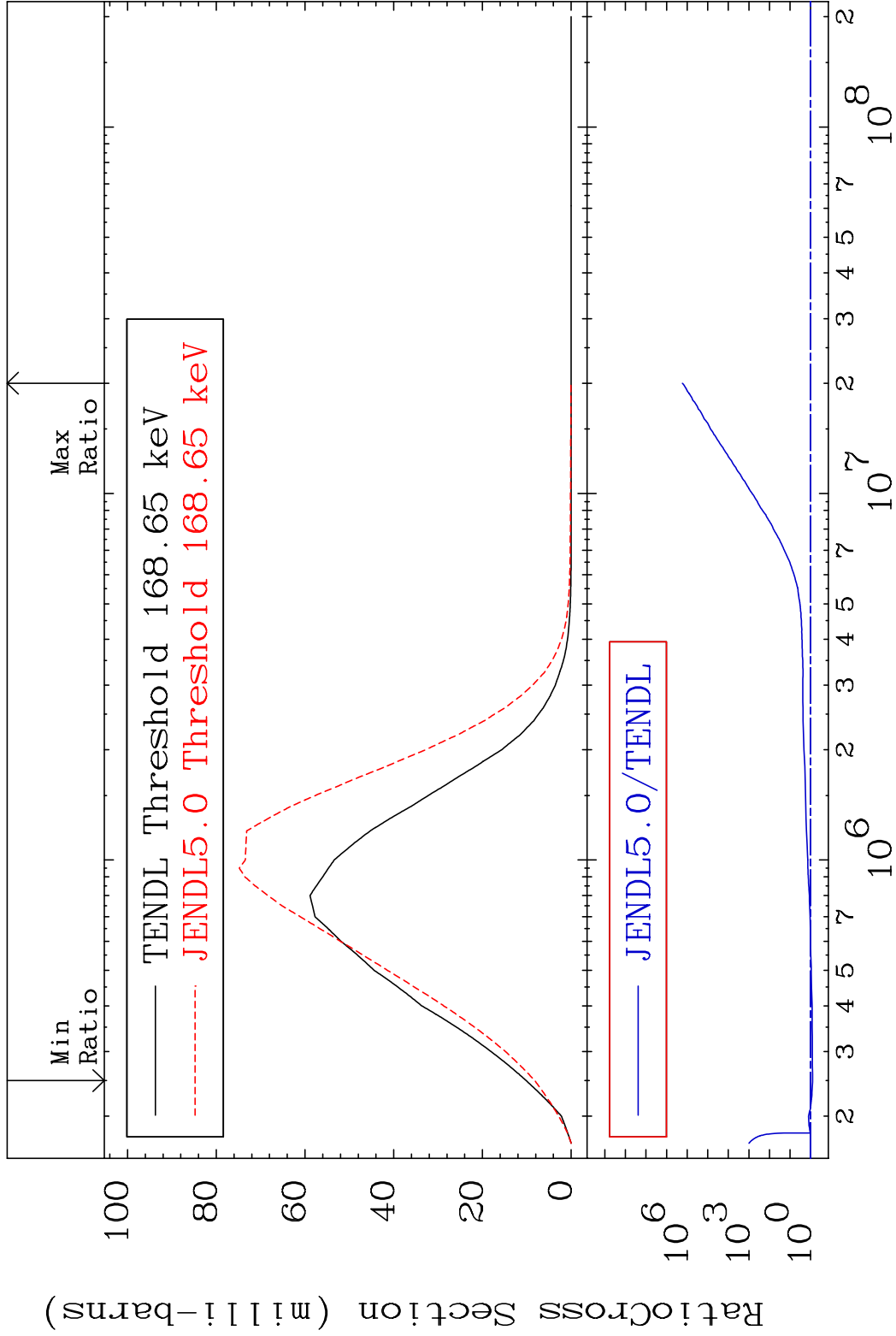


11 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 54 (n,n') Level 70-Yb-171
Cross Section -100.0 To 124.0 %



MAT 7034 MT= 55 (n,n') Level 70-Yb-171
Cross Section -19.06 To 9999. %



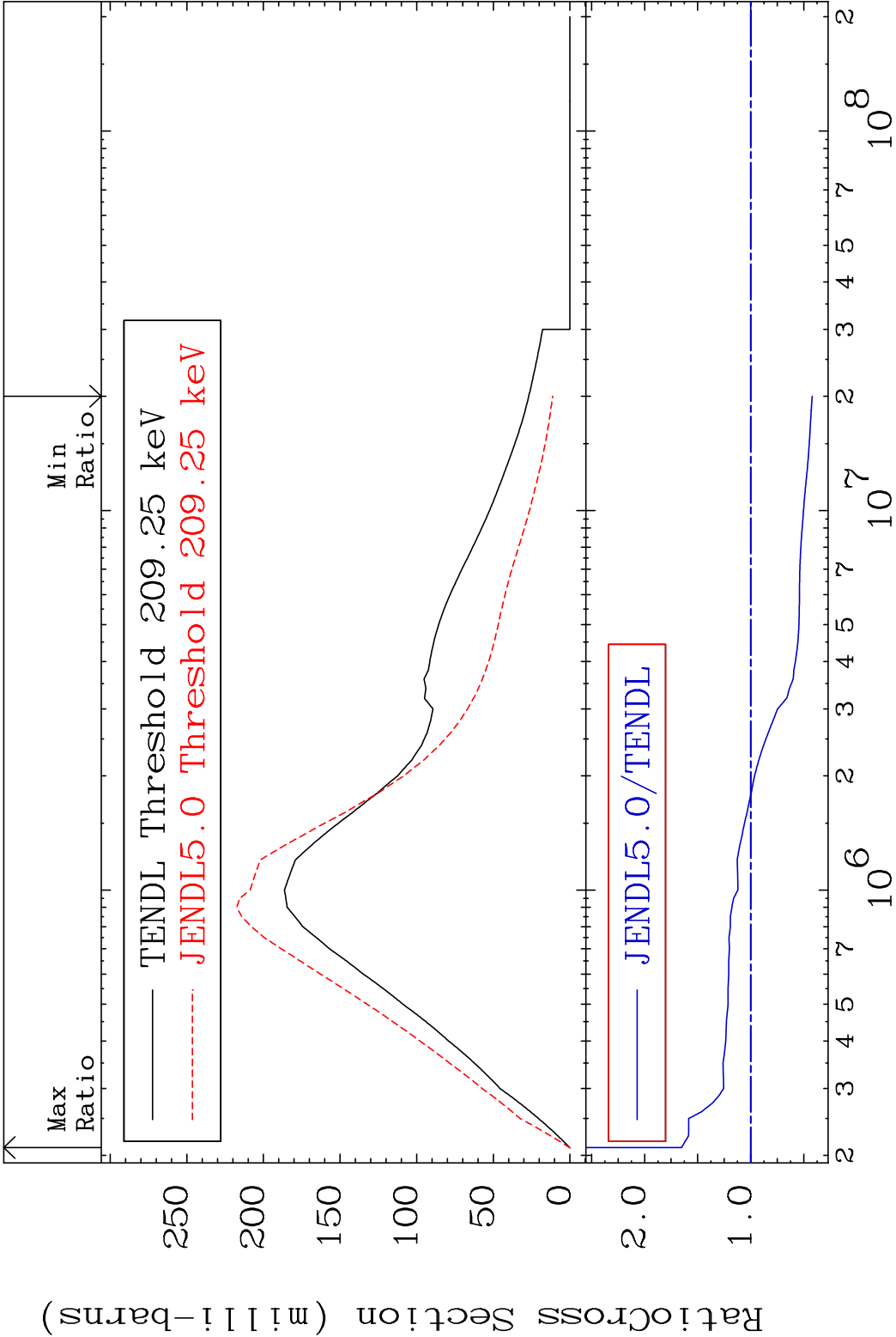
MAT 7034

MT= 56 (n,n') Level

70-Yb-171

Cross Section

-57.90 To 65.22 %

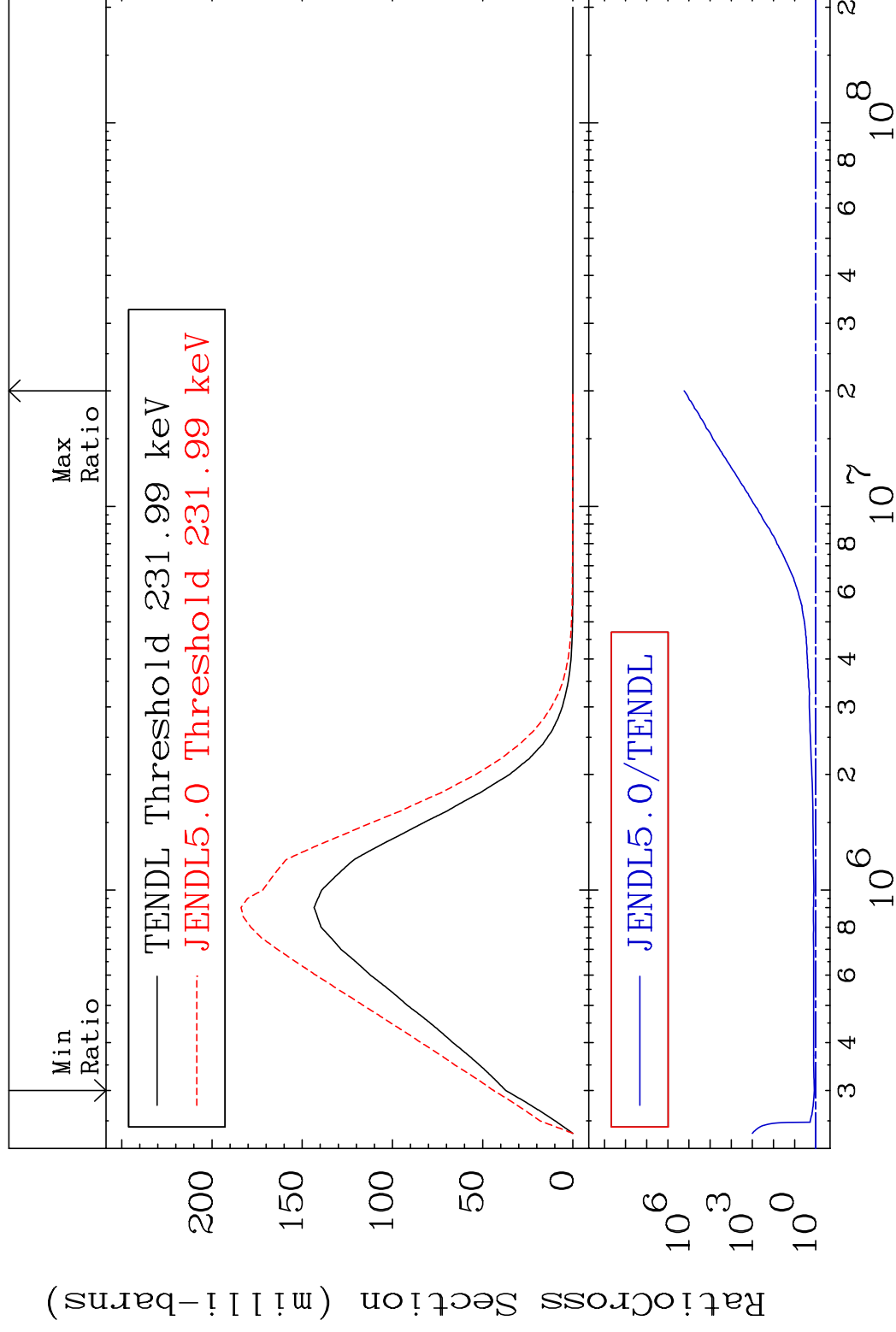


MAT 7034

MT= 57 (n, n') Level

70-Yb-171

Cross Section 18.13 To 9999. %

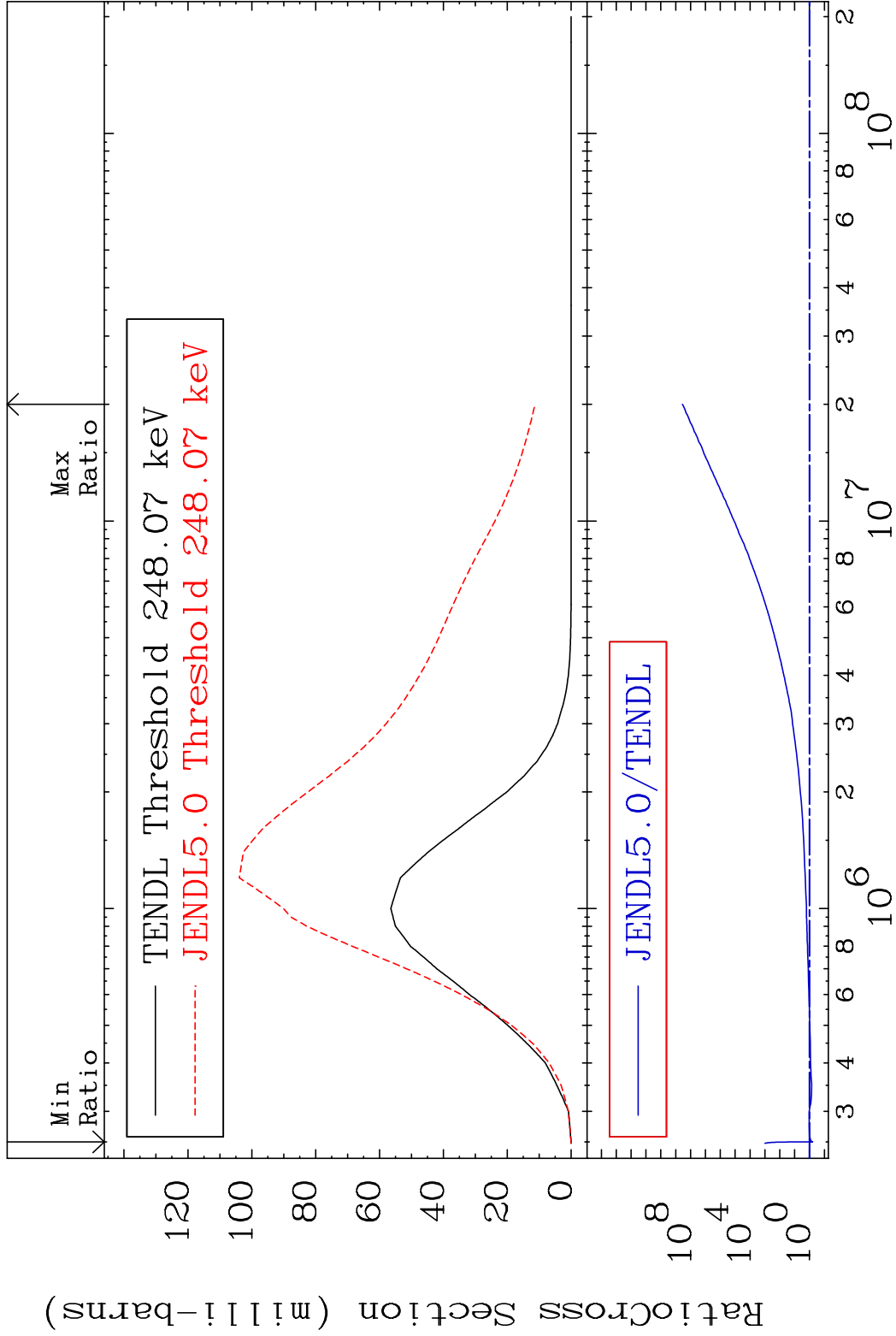


15

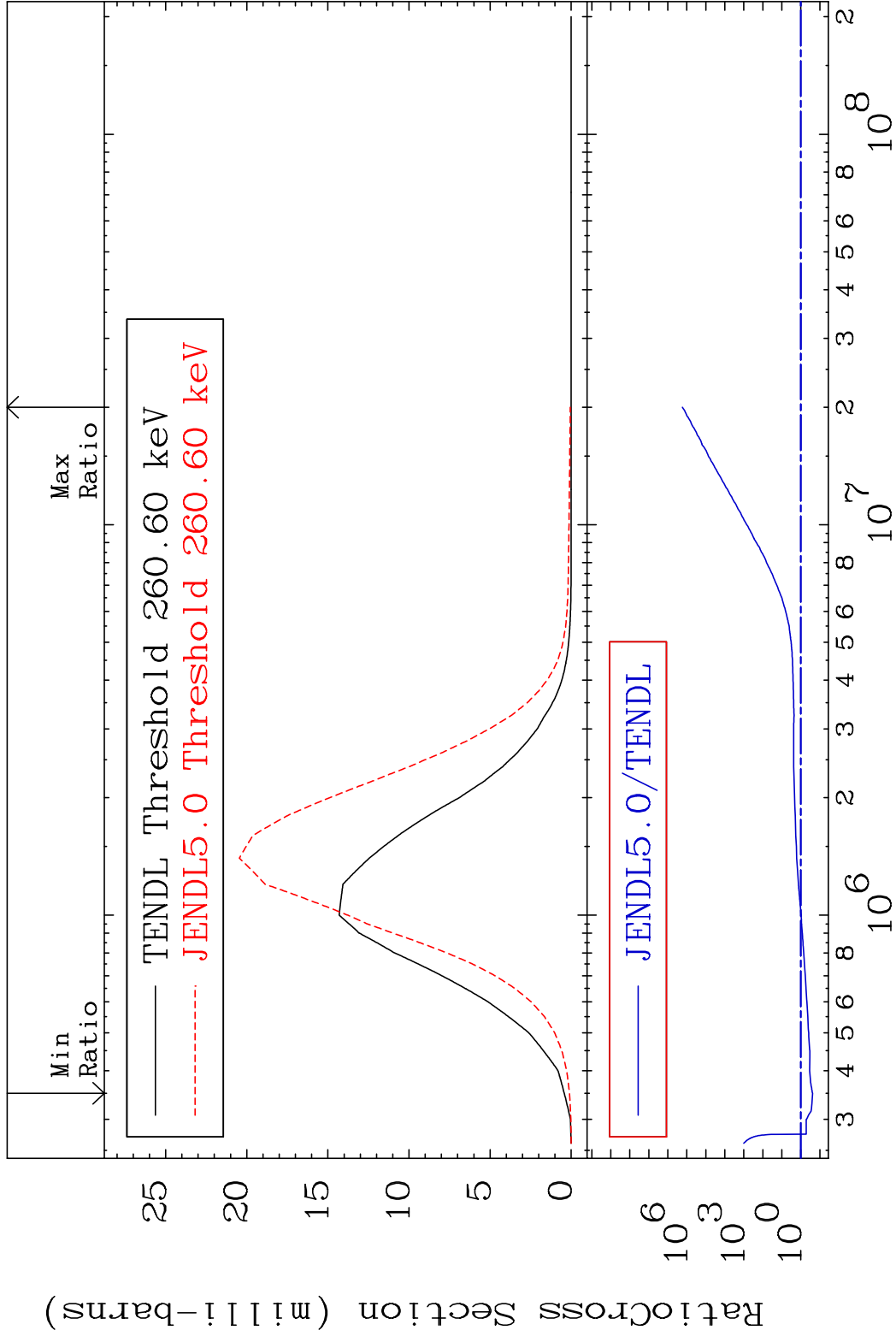
Incident Energy (eV)

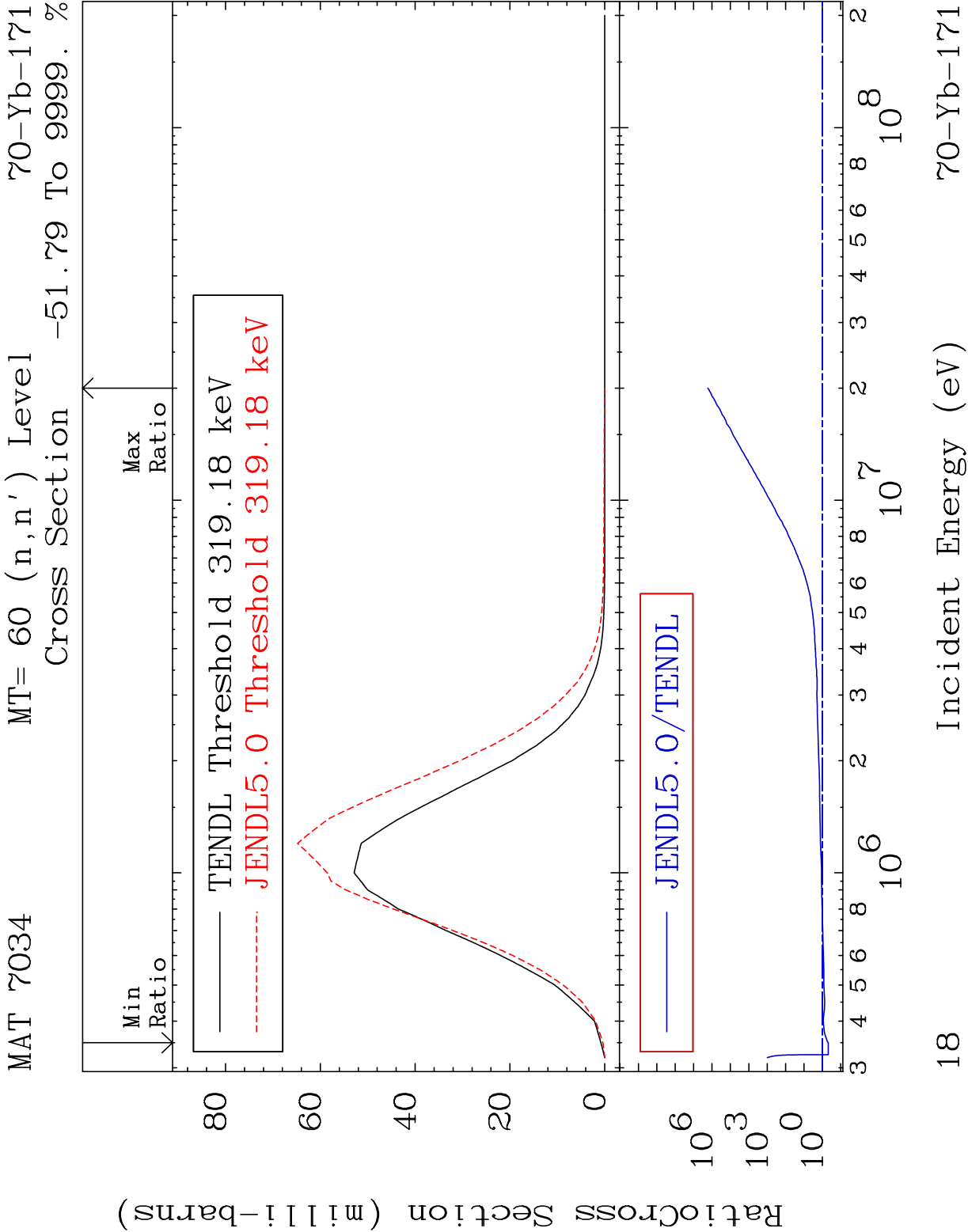
70-Yb-171

MAT 7034 MT= 58 (n,n') Level 70-Yb-171
Cross Section -37.85 To 9999. %

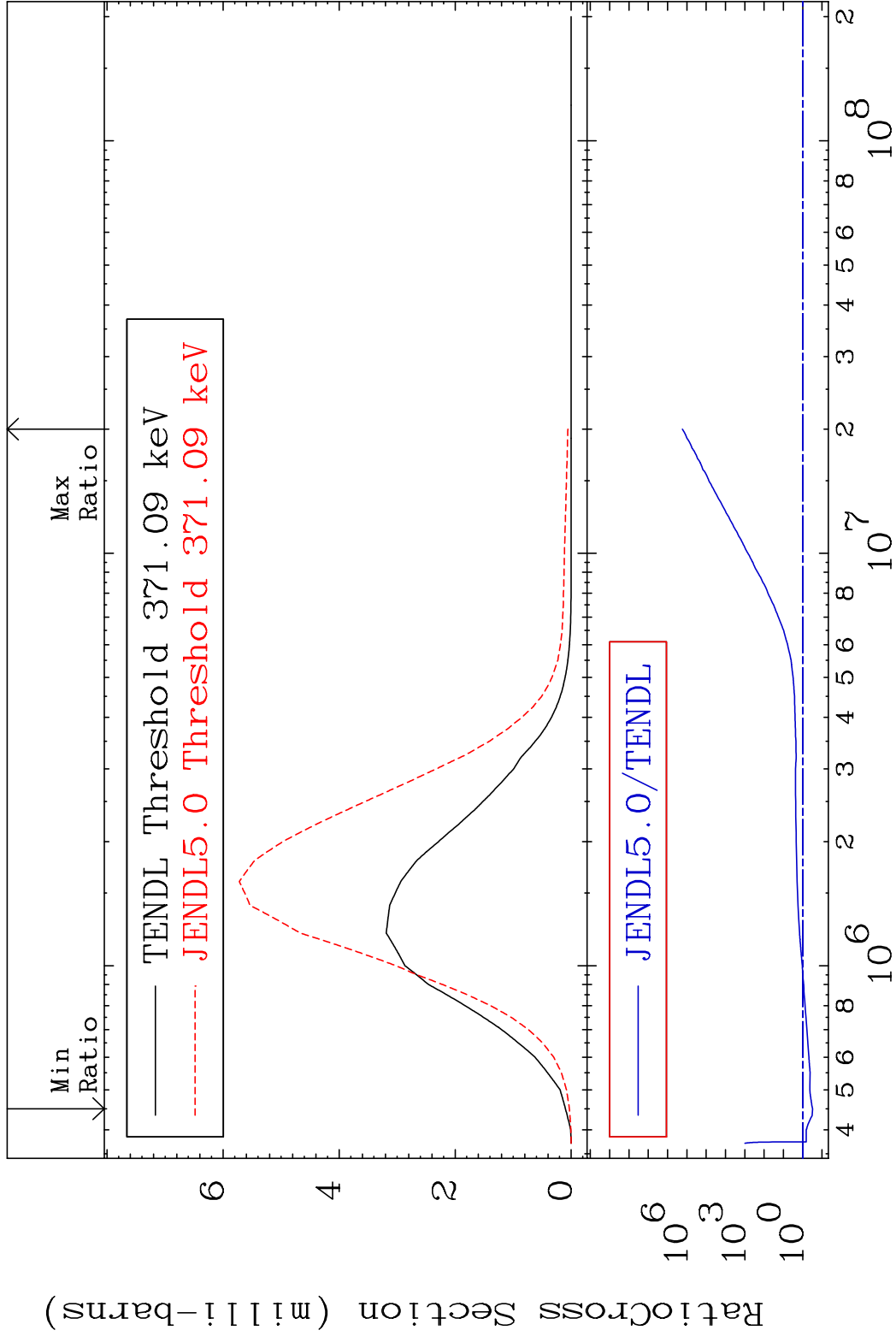


MAT 7034 MT= 59 (n,n') Level 70-Yb-171
Cross Section -75.79 To 9999. %

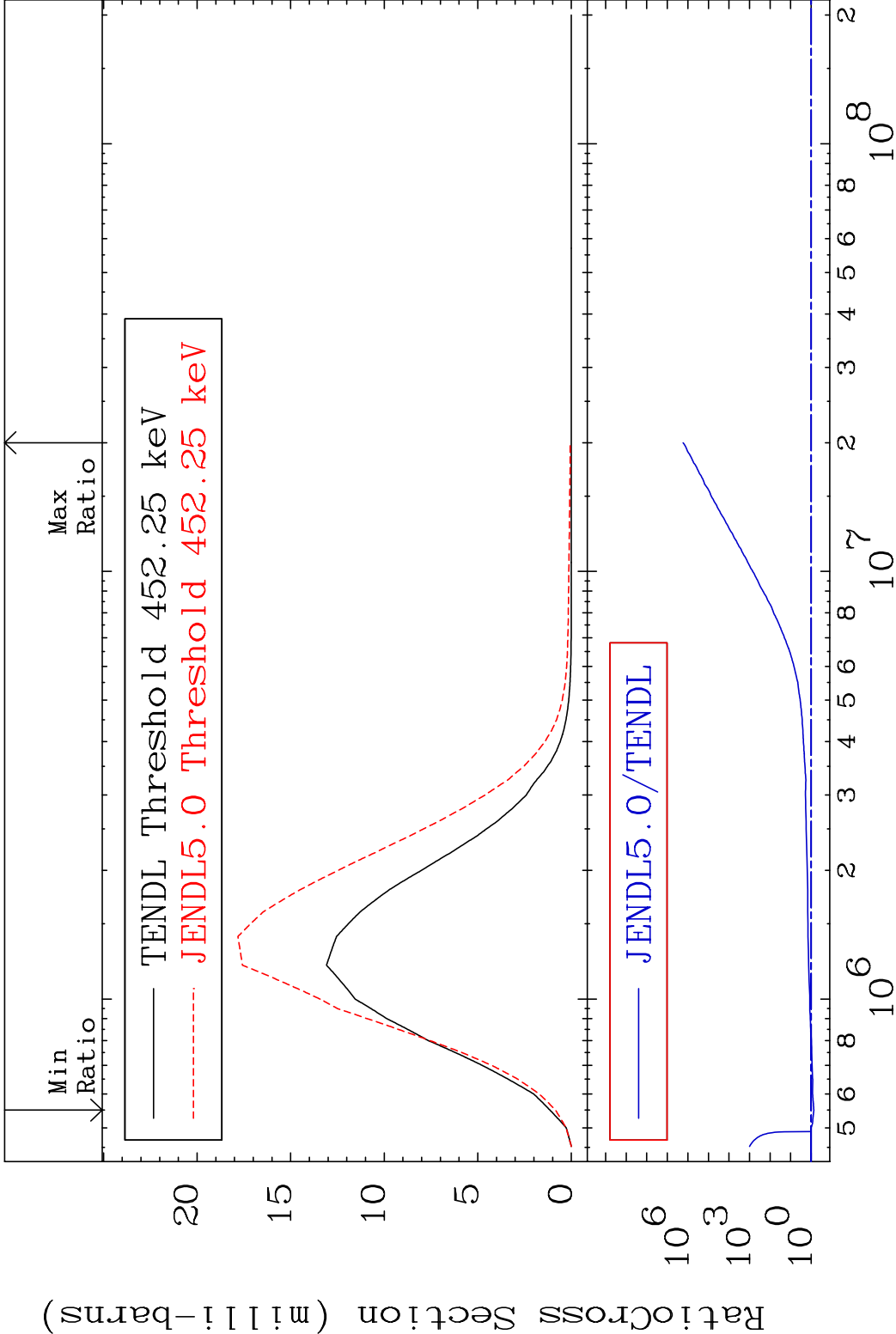




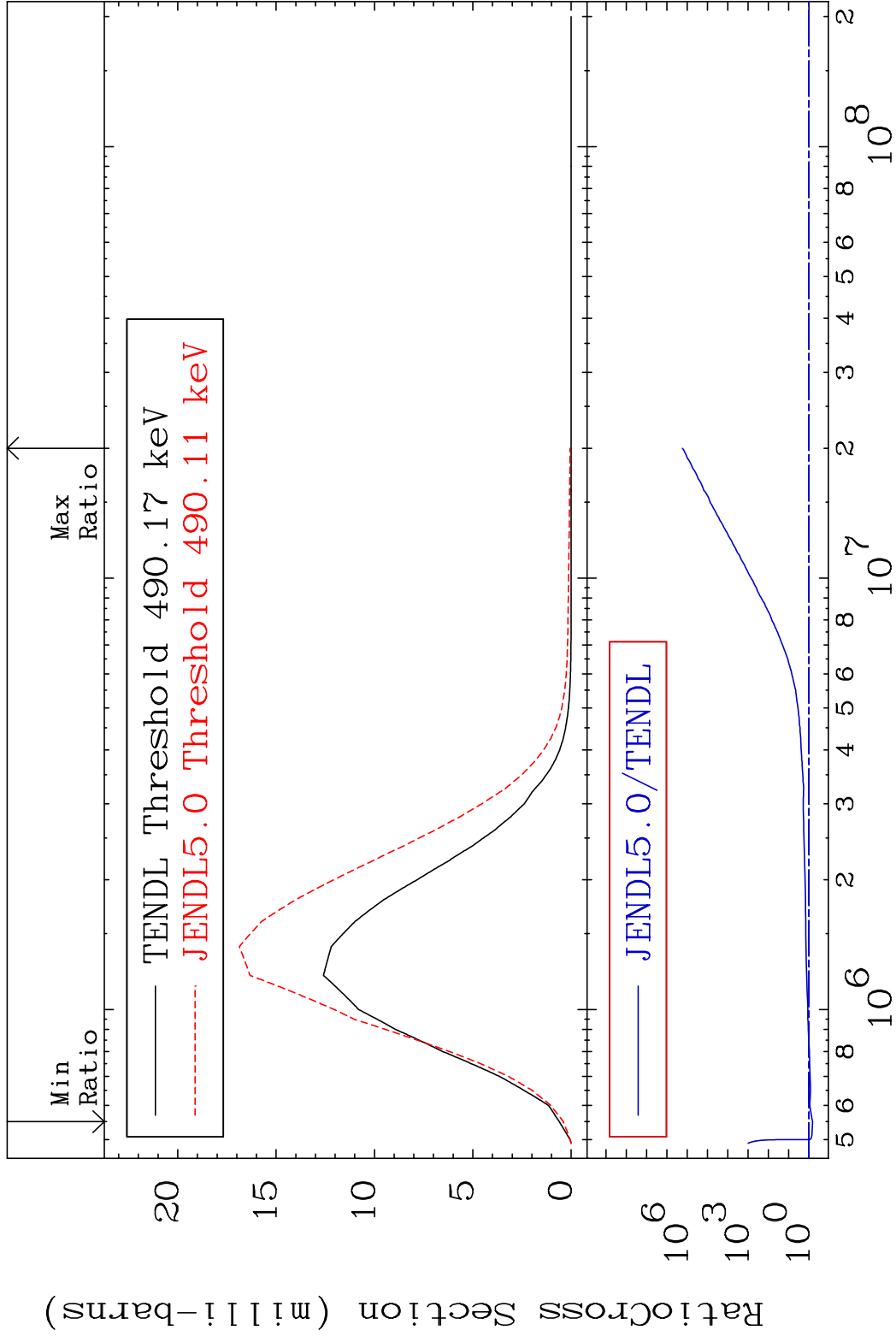
MAT 7034 MT= 61 (n,n') Level 70-Yb-171
Cross Section -68.94 To 9999. %

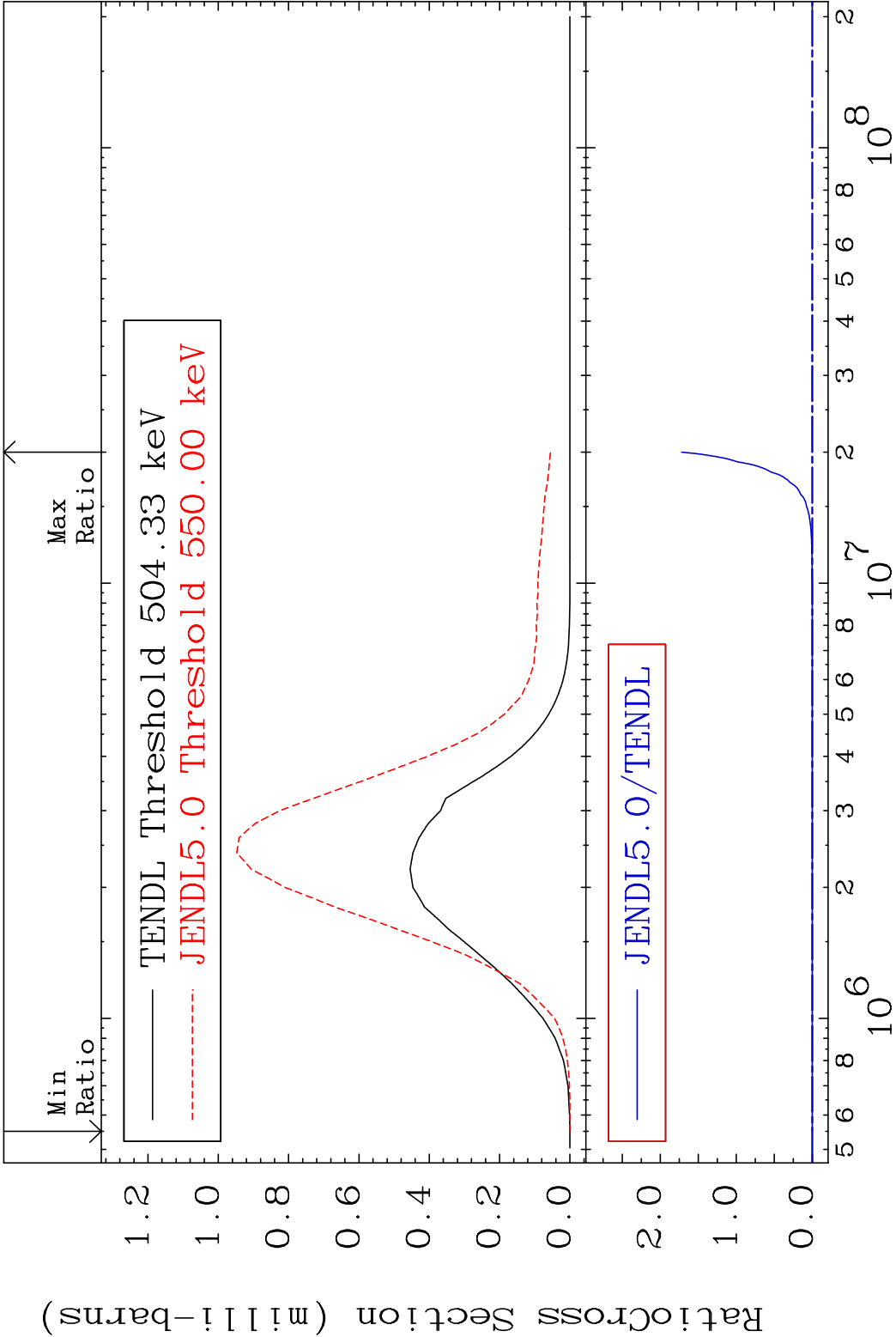


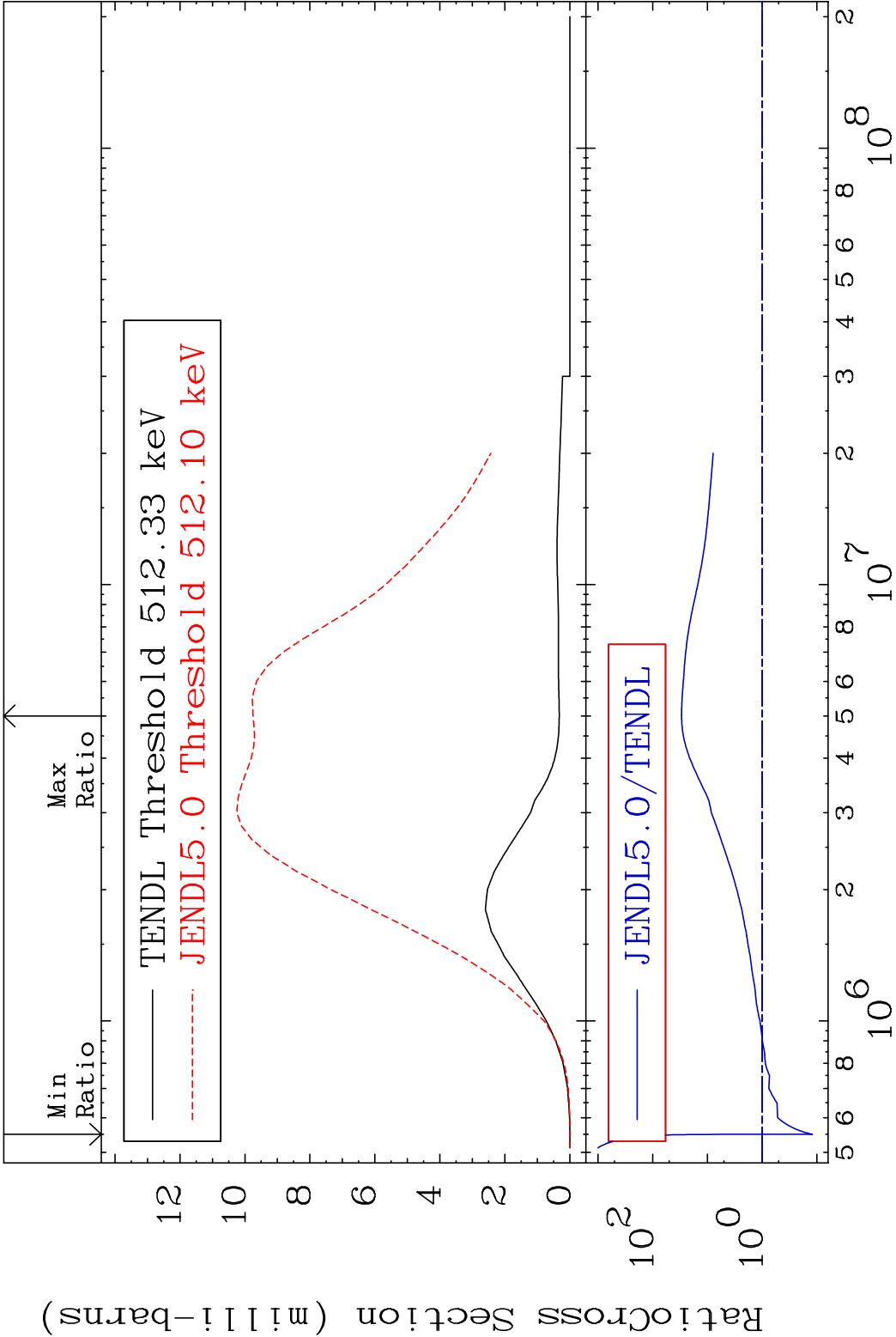
MAT 7034 MT= 62 (n,n') Level 70-Yb-171
Cross Section -25.93 To 9999. %



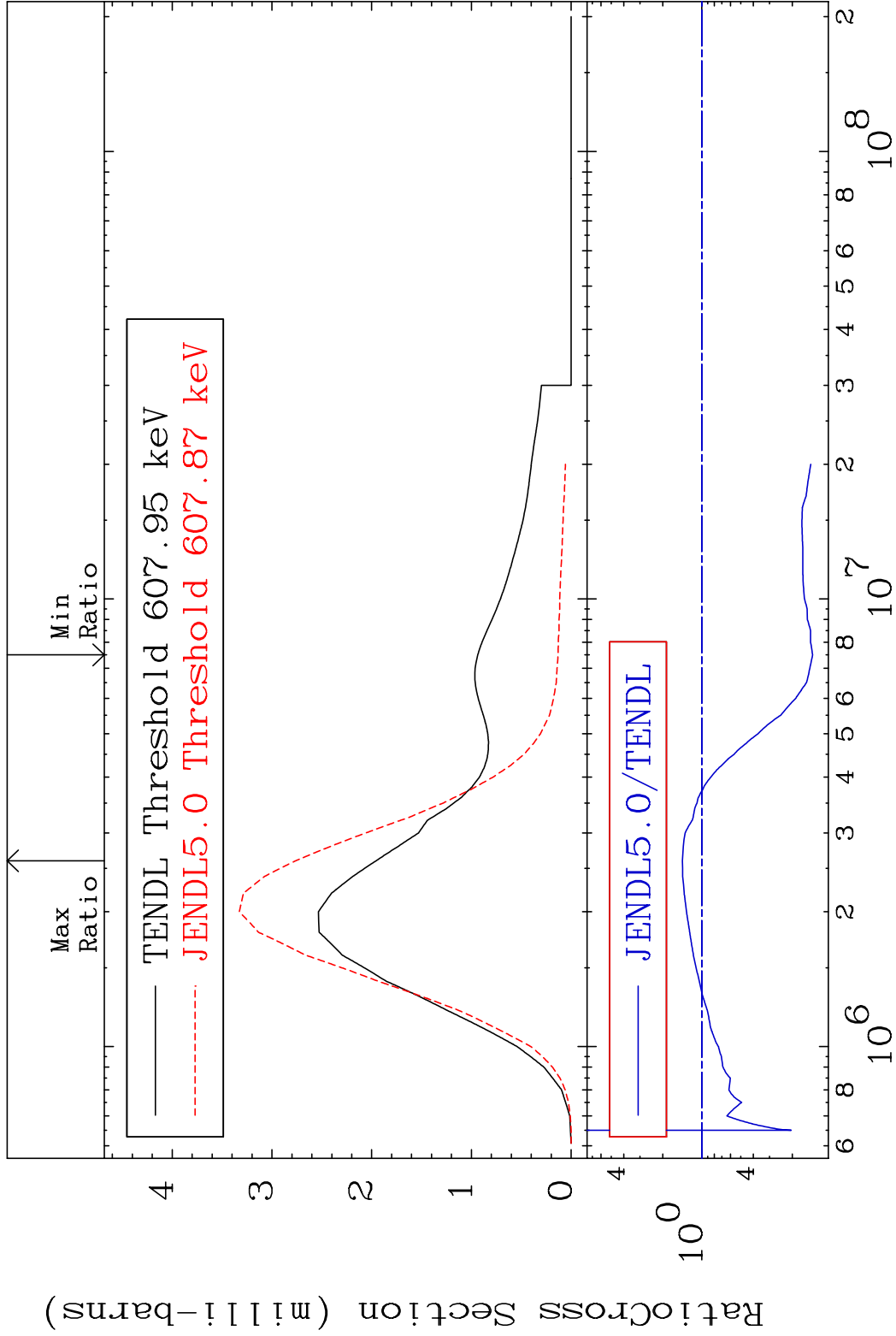
MAT 7034 MT= 63 (n,n') Level 70-Yb-171
Cross Section -34.10 To 9999. %

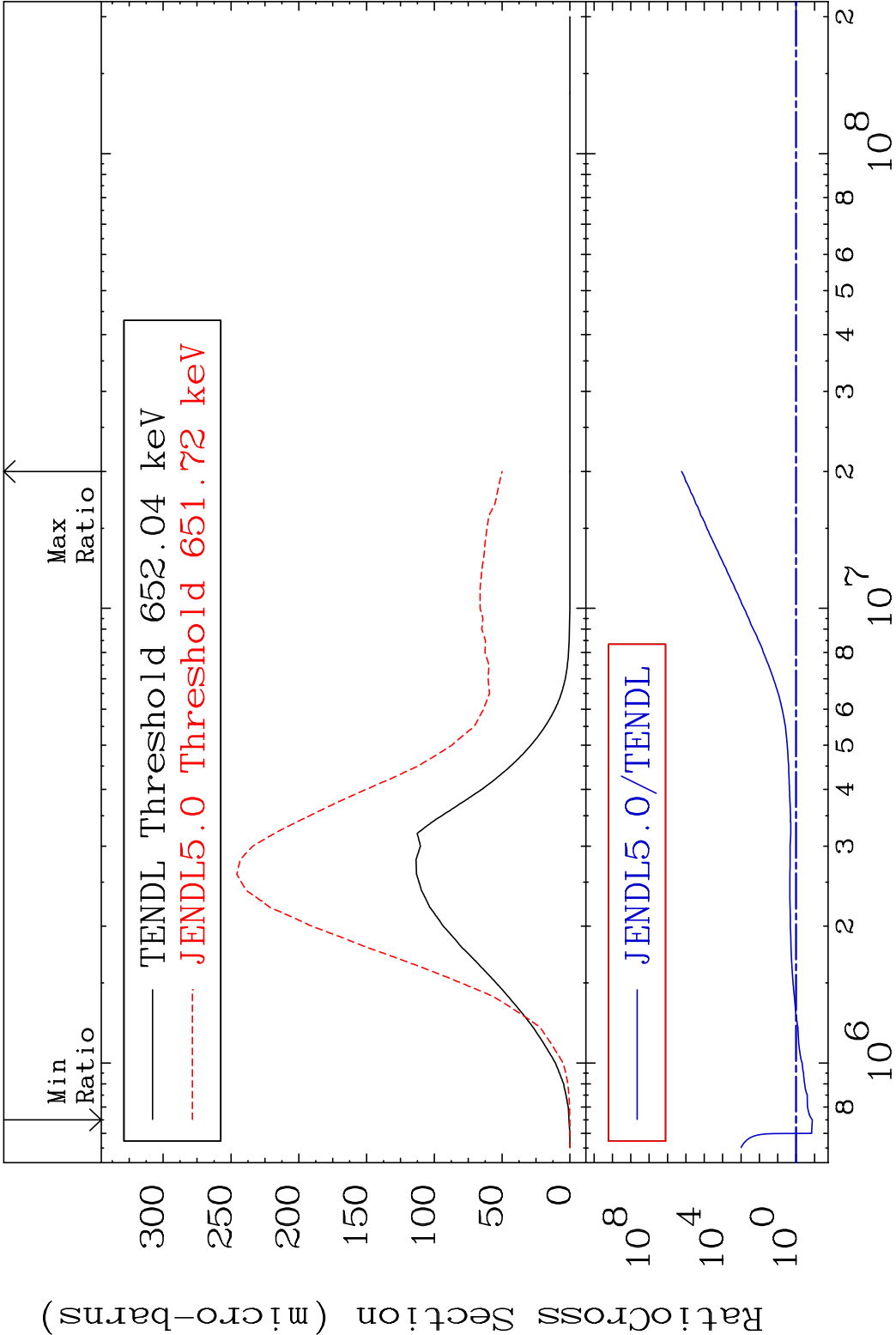




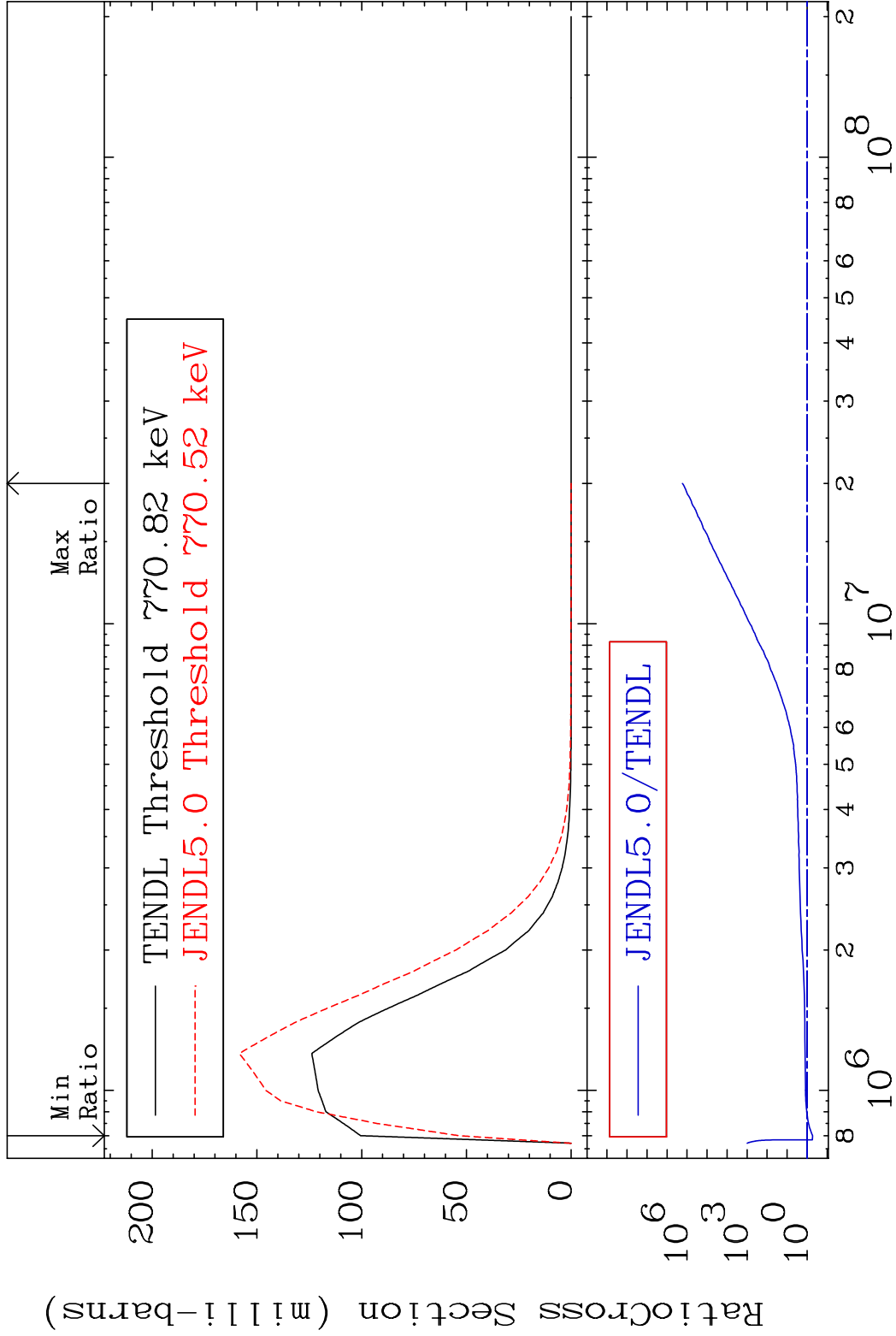


MAT 7034 MT= 66 (n,n') Level 70-Yb-171
Cross Section -86.02 To 41.26 %

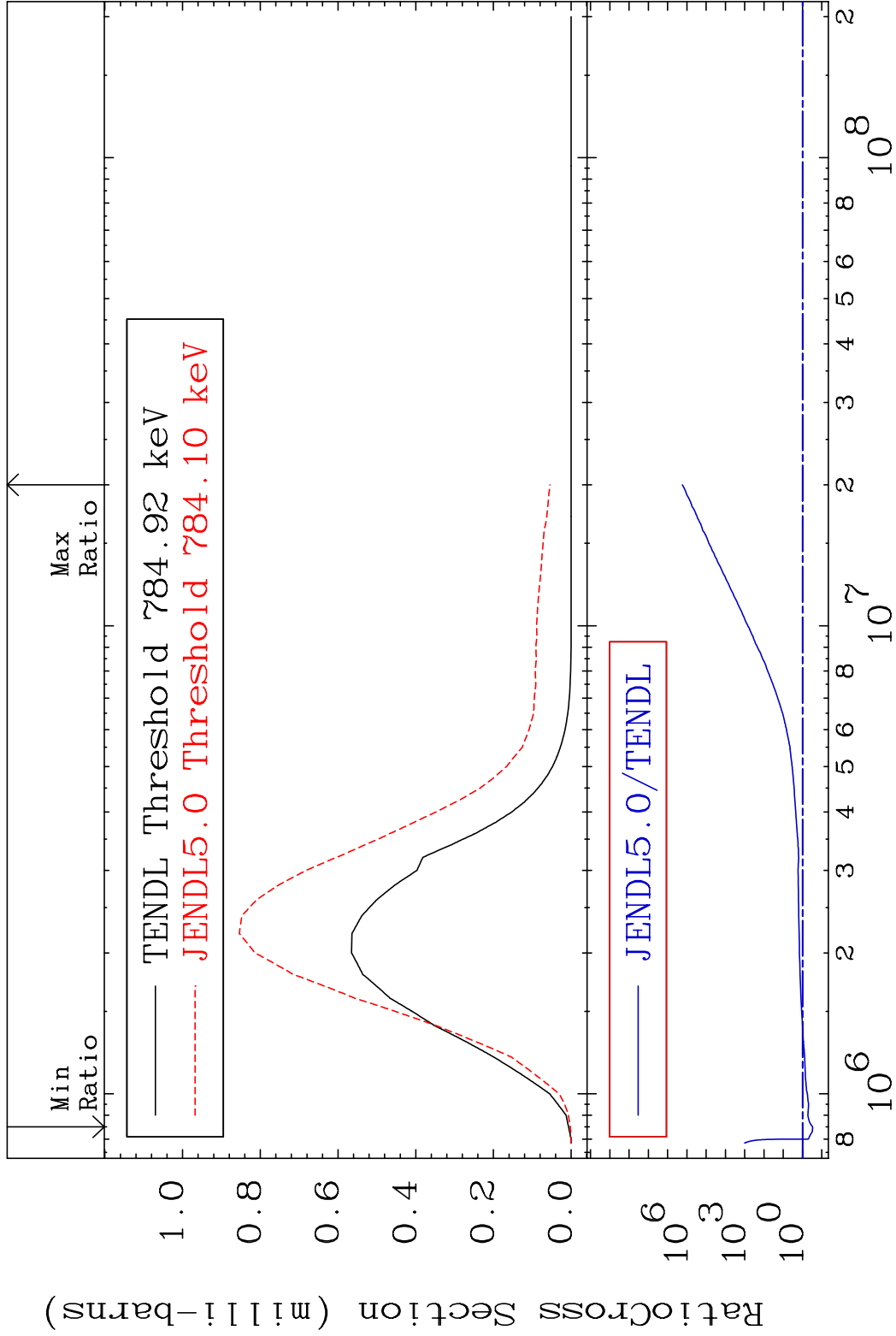


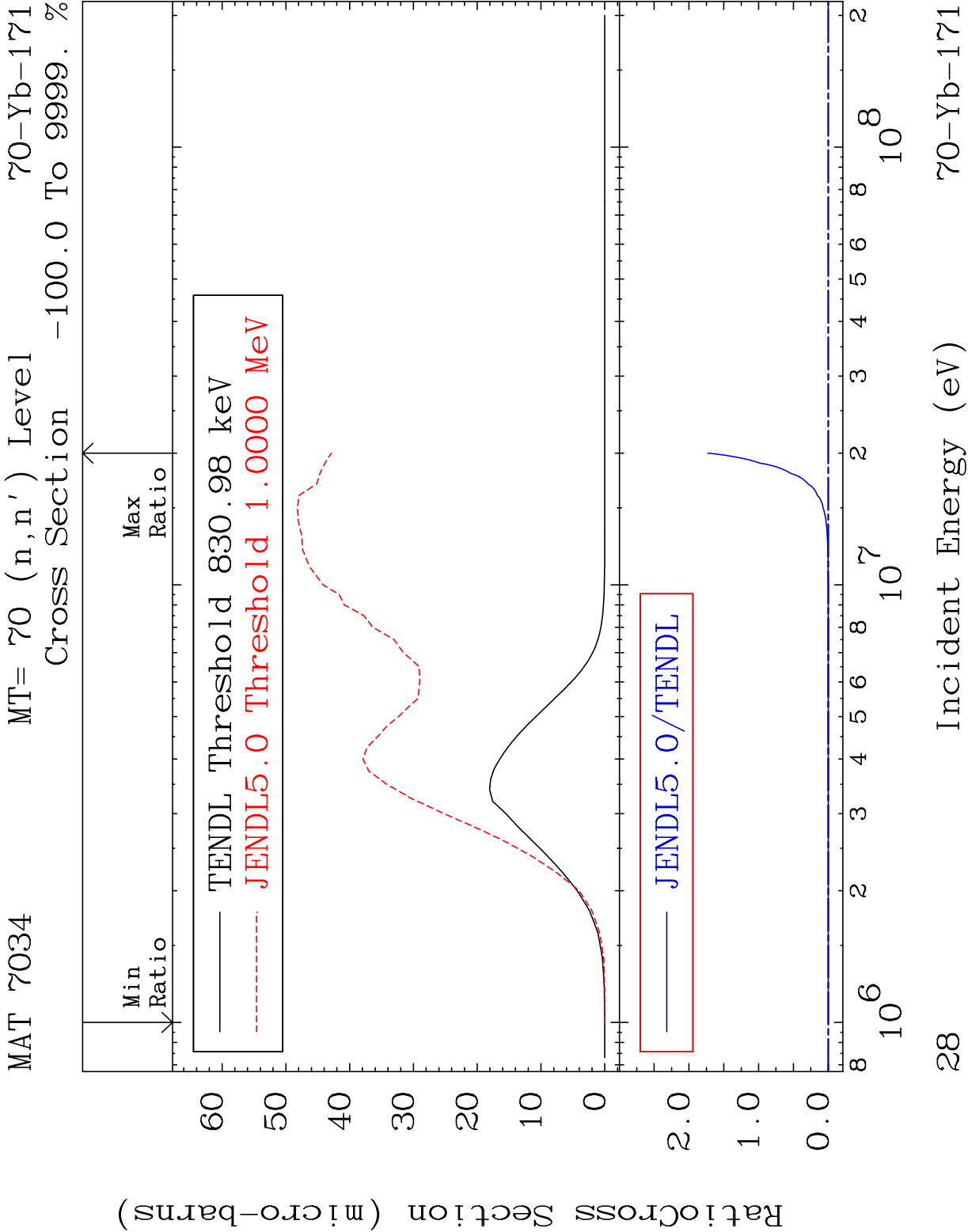


MAT 7034 MT= 68 (n,n') Level 70-Yb-171
Cross Section -46.54 To 9999. %



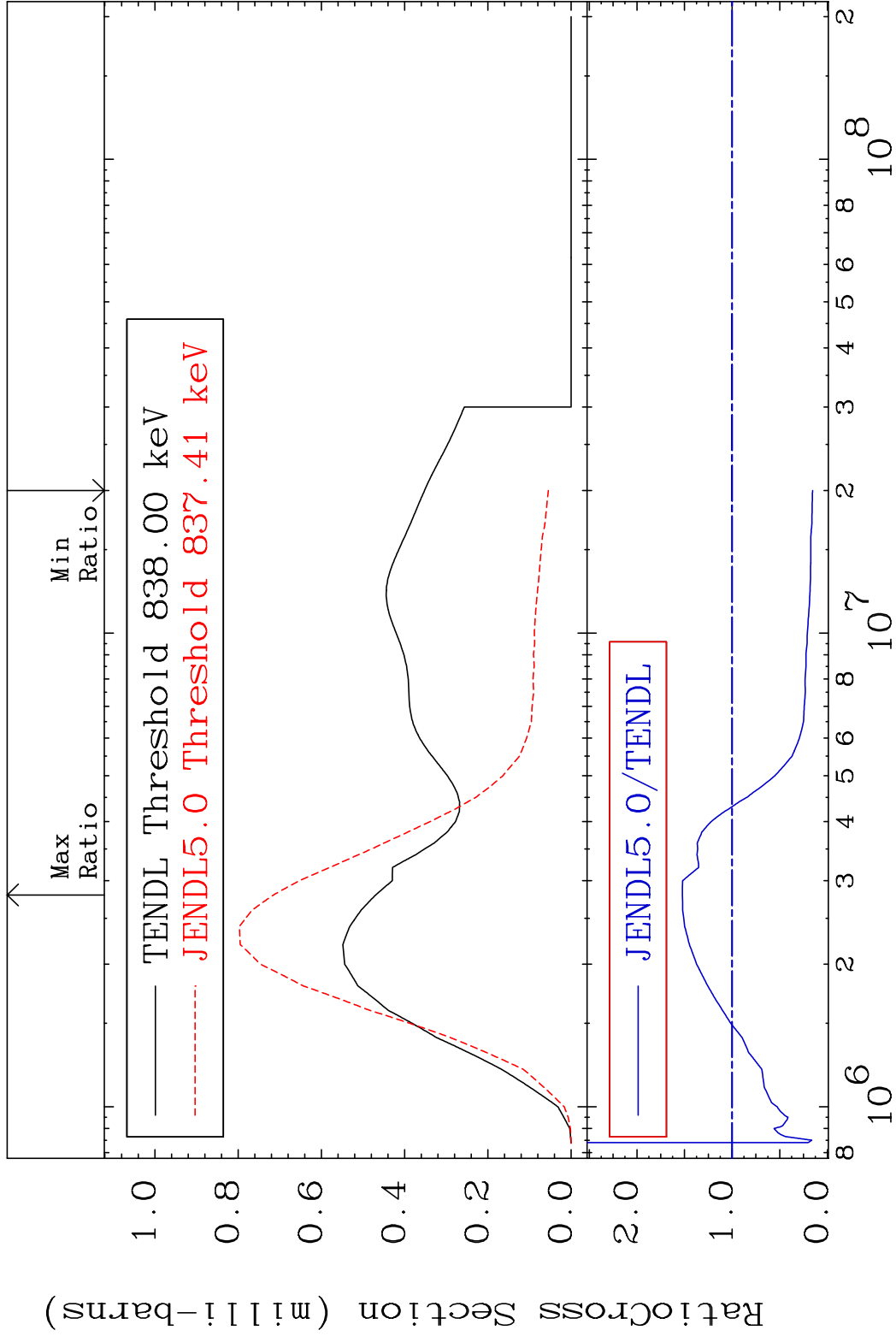
MAT 7034 MT= 69 (n,n') Level 70-Yb-171
Cross Section -69.80 To 9999. %

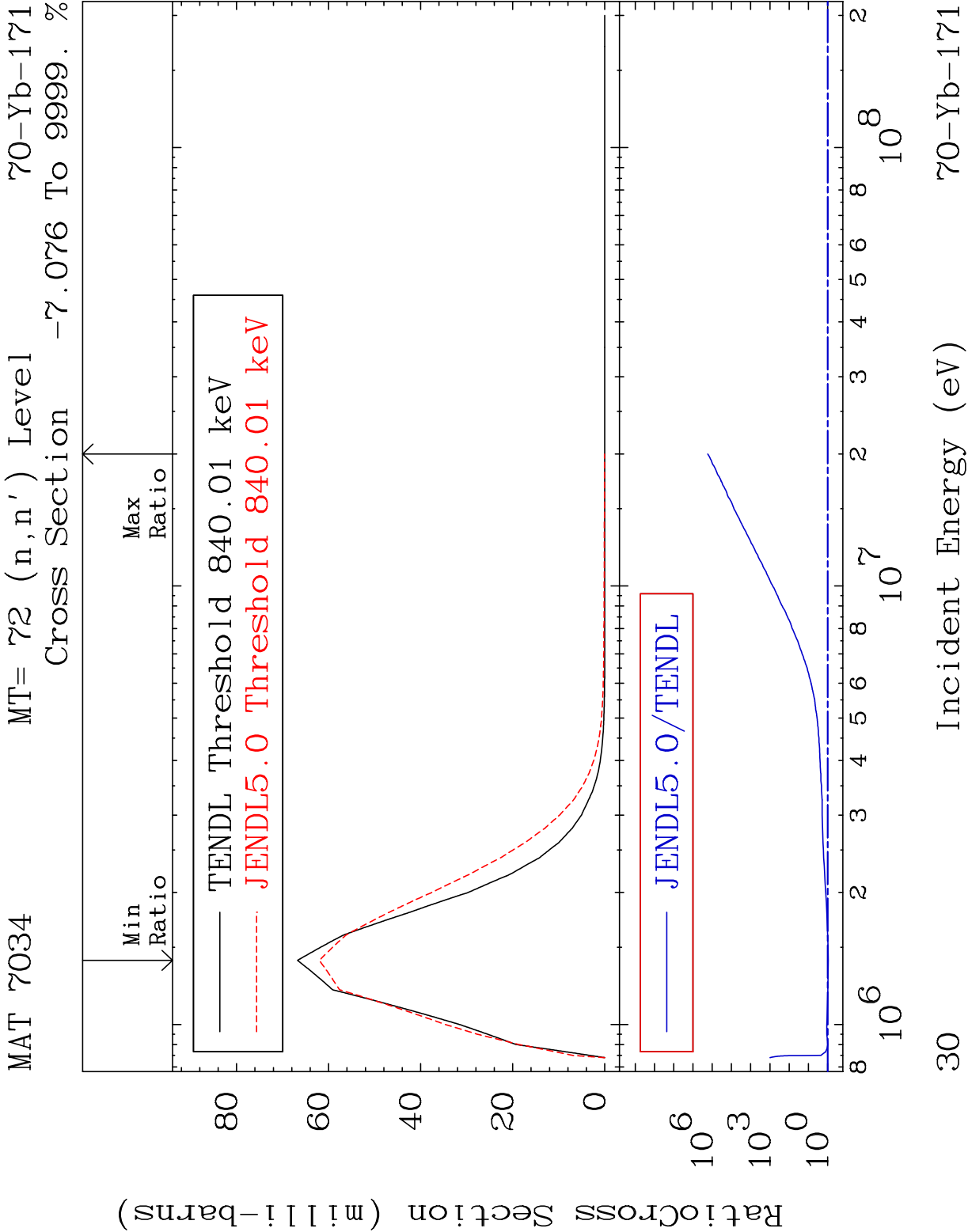




MAT 7034 MT= 71 (n,n') Level 70-Yb-171

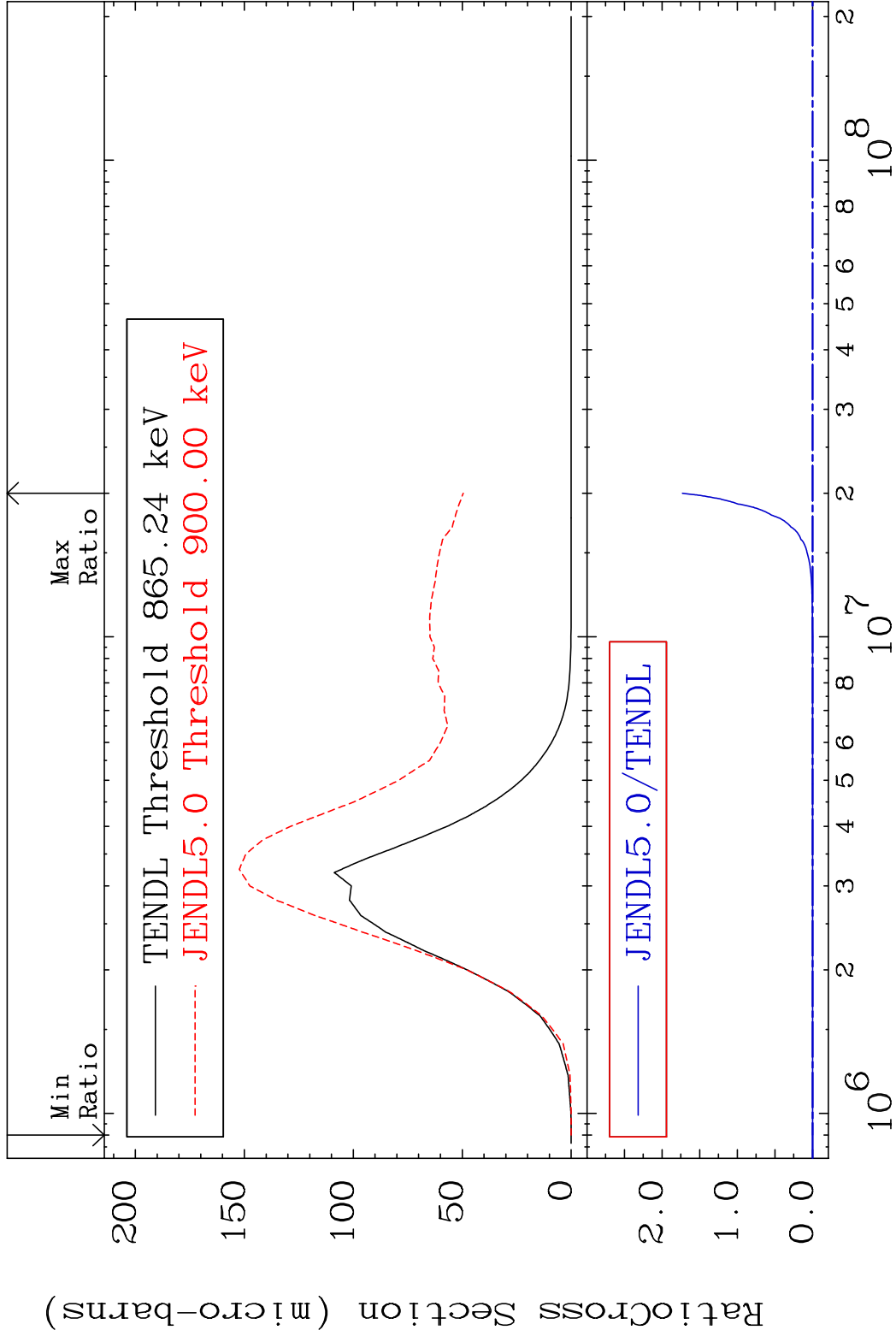
Cross Section -84.47 To 52.28 %



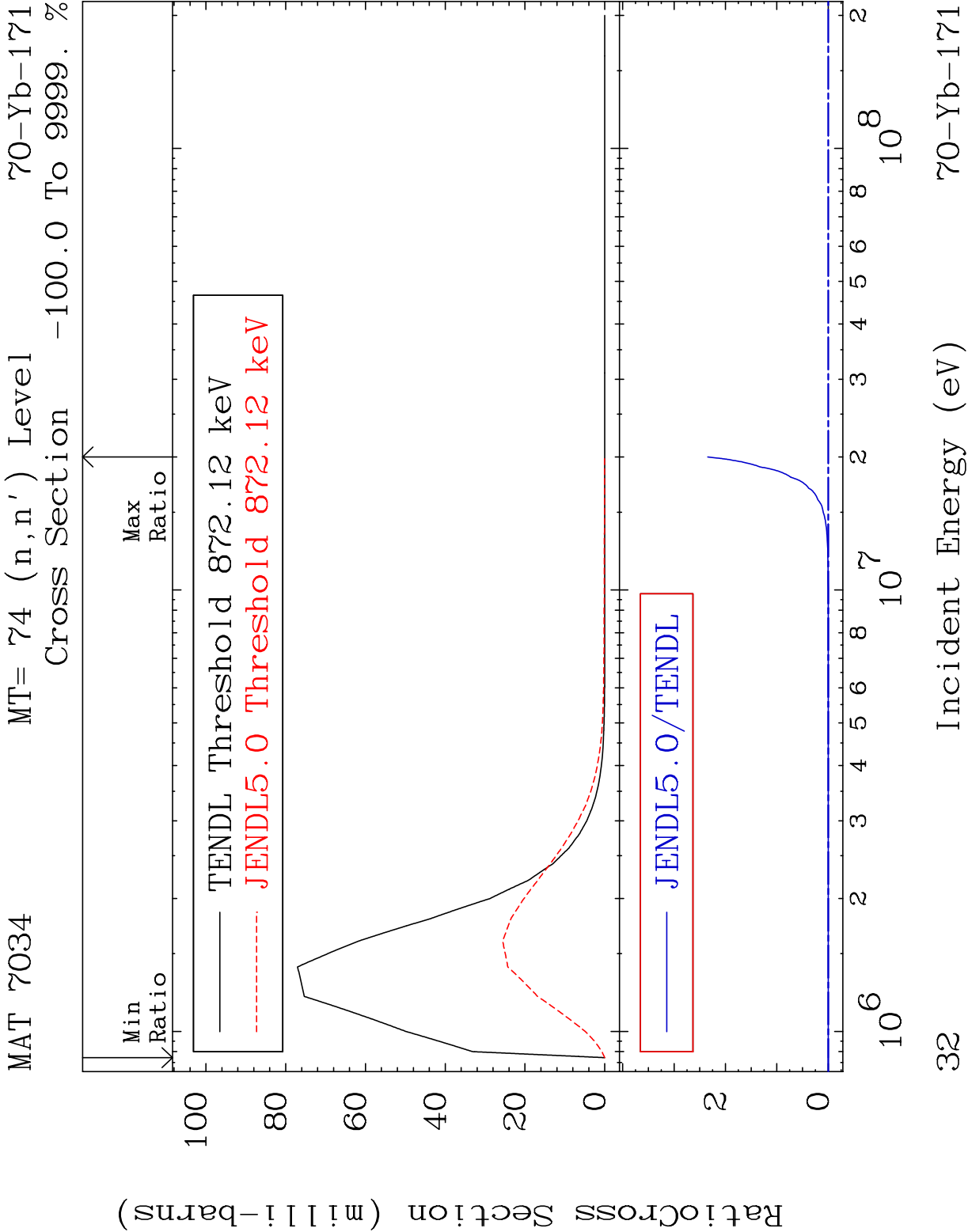


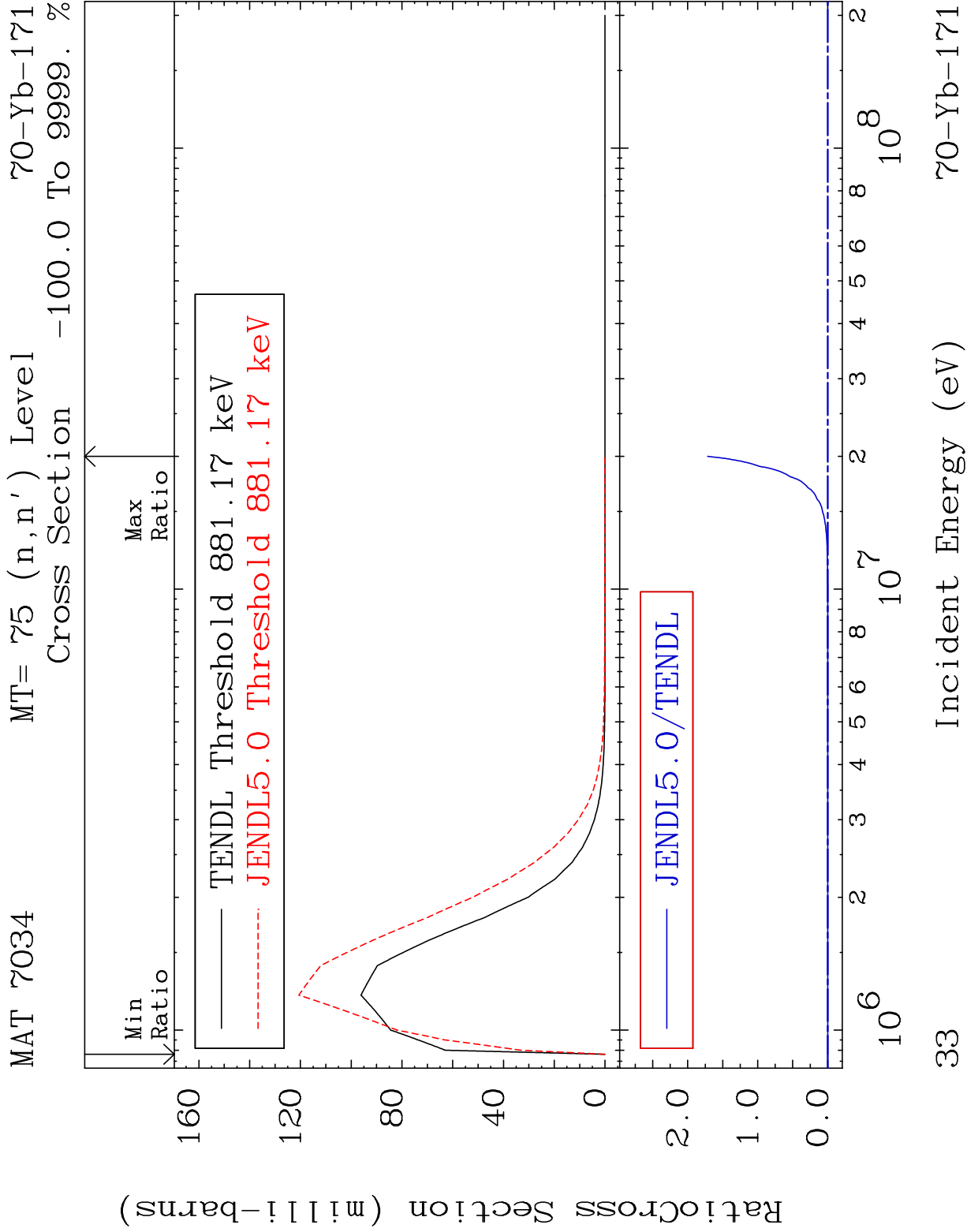
MAT 7034 MT= 73 (n,n') Level 70-Yb-171

Cross Section -100.0 To 9999. %

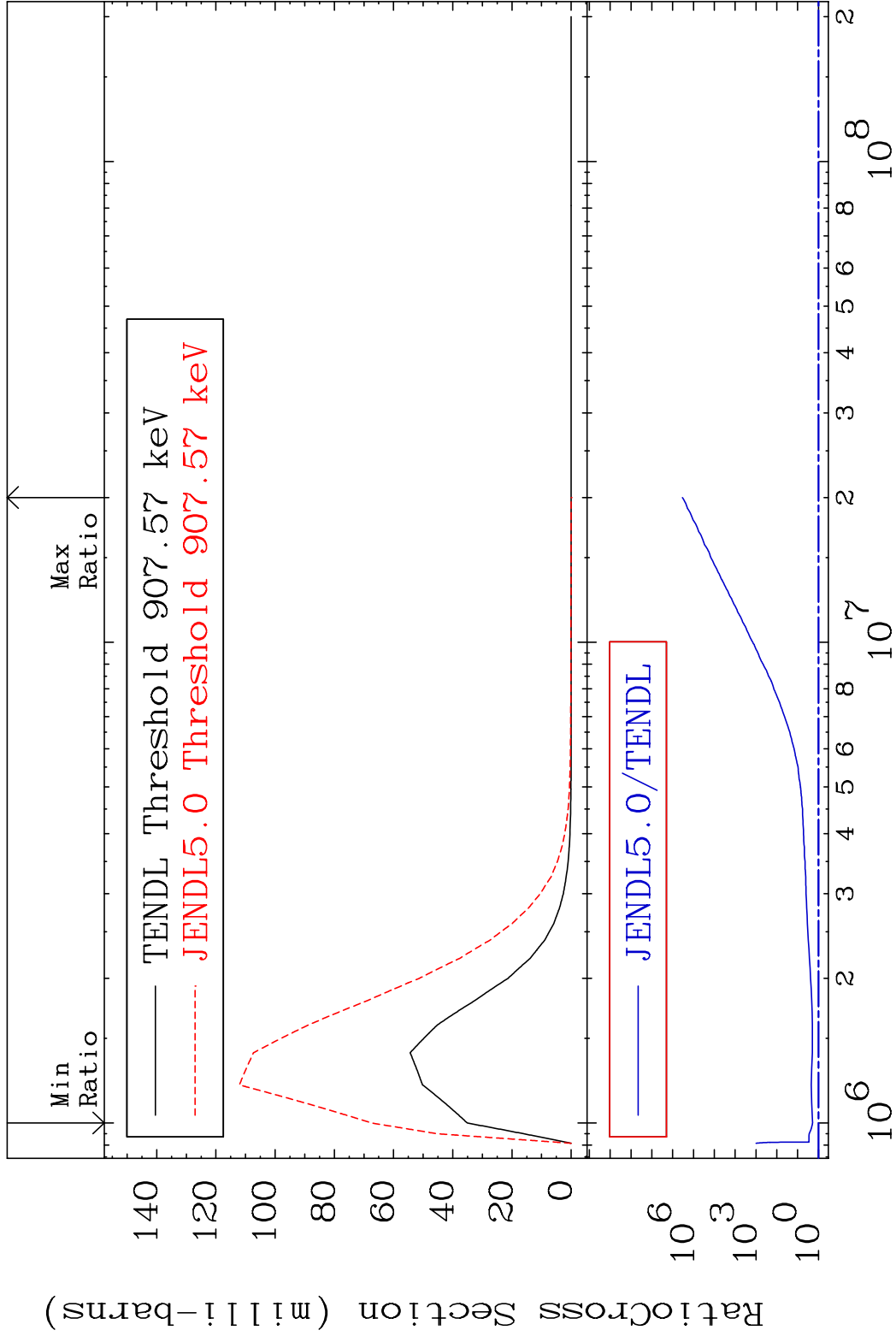


31 Incident Energy (eV) 70-Yb-171

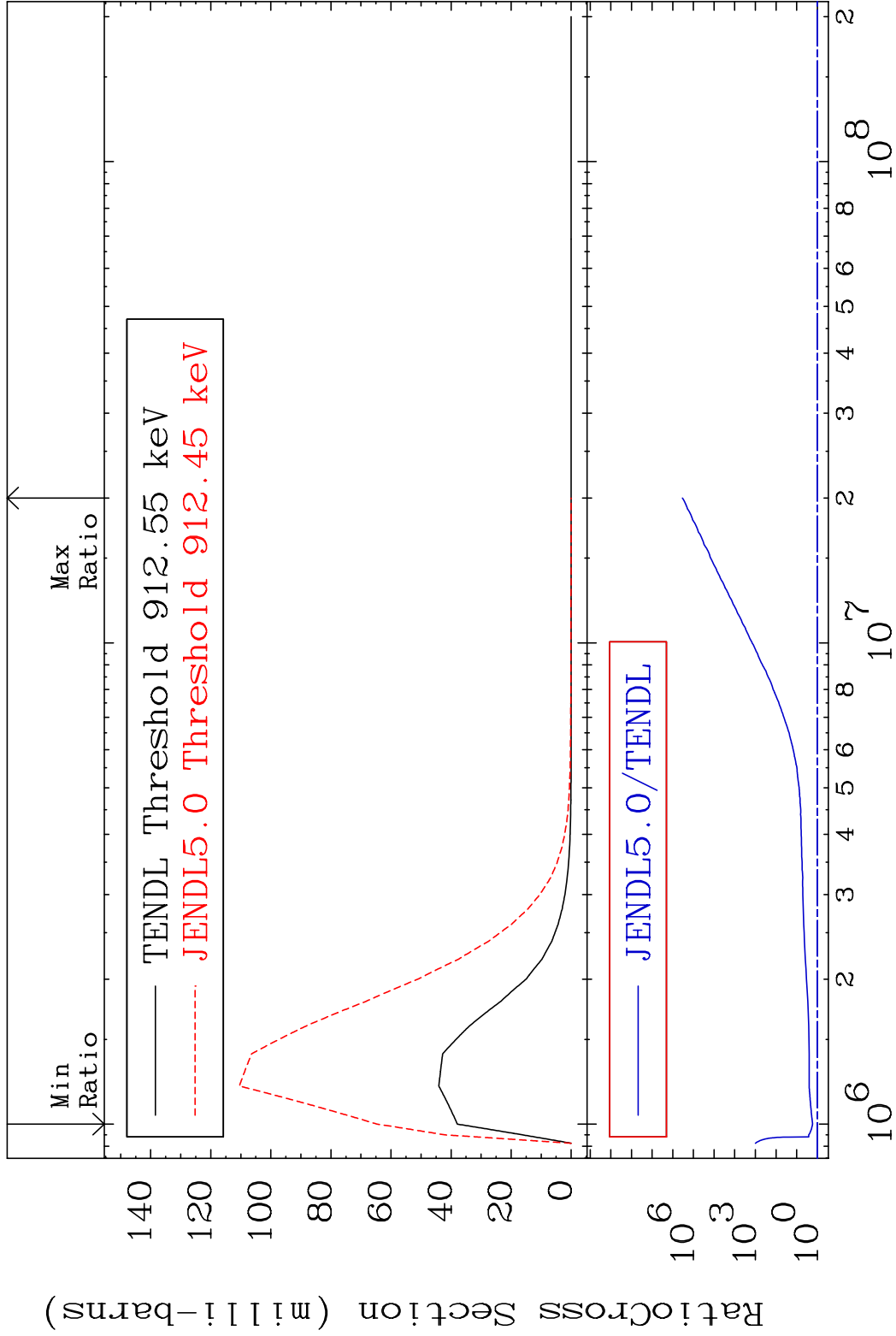




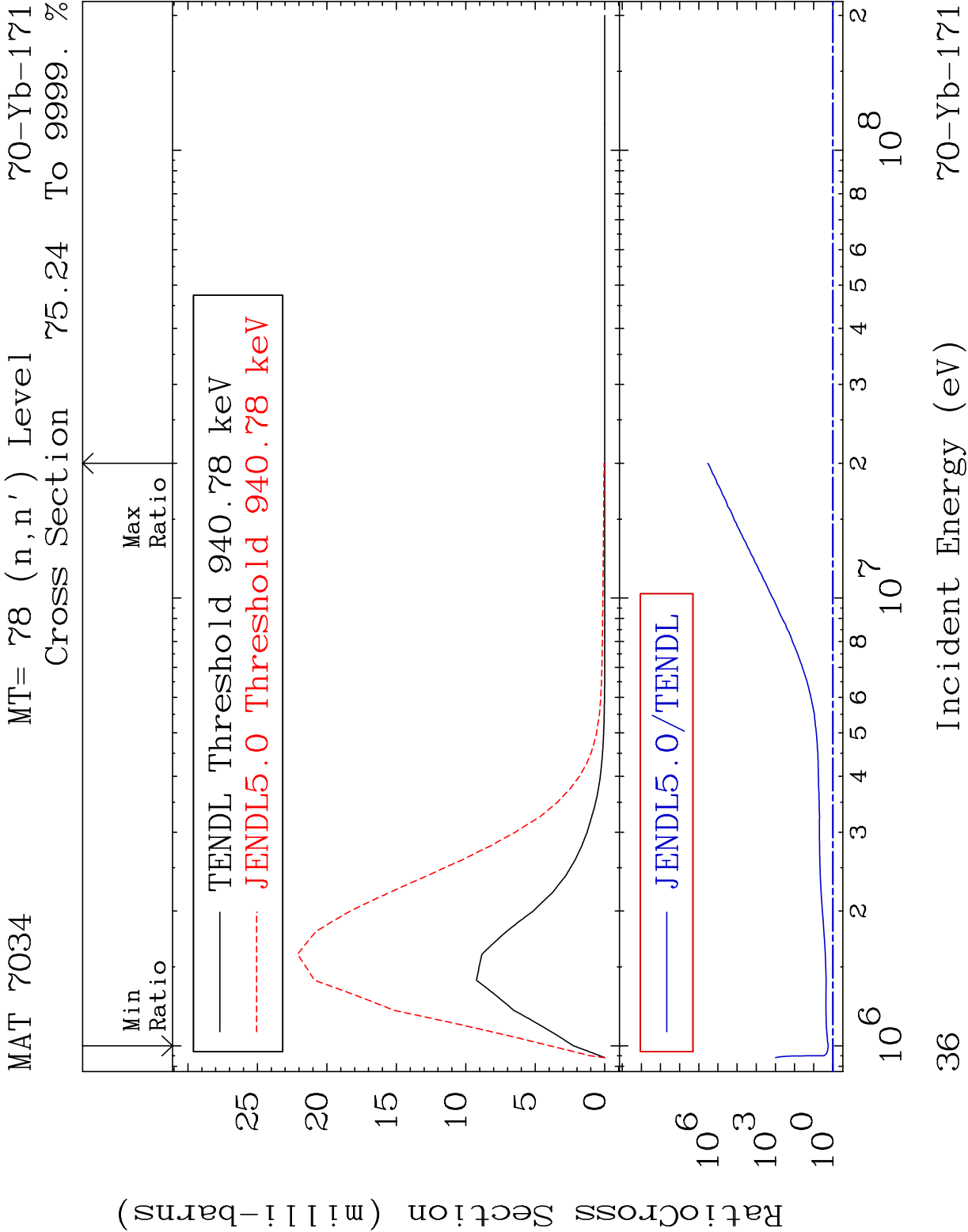
MAT 7034 MT= 76 (n,n') Level 70-Yb-171
Cross Section 91.91 To 9999. %



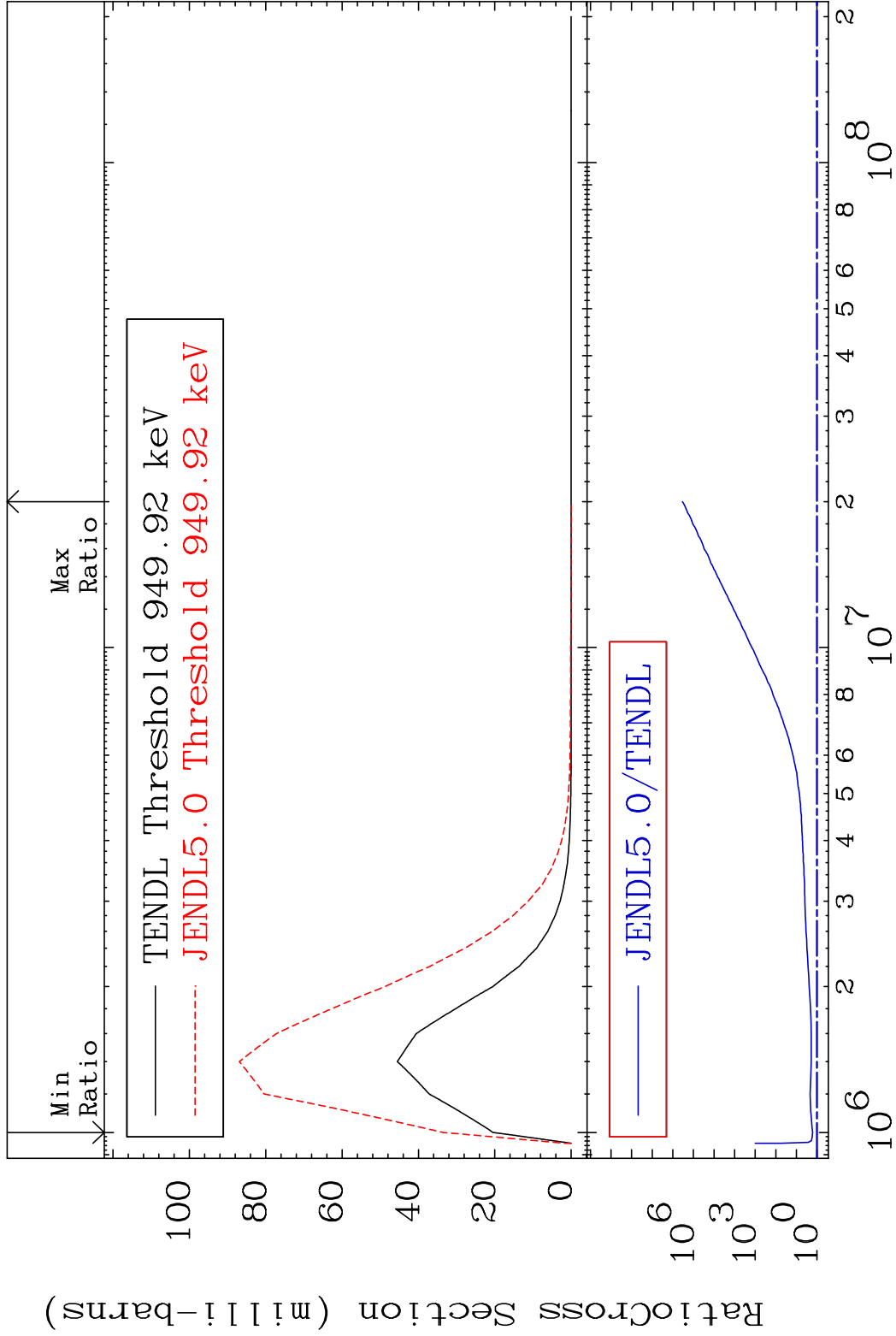
MAT 7034 MT= 77 (n,n') Level 70-Yb-171
Cross Section 70.52 To 9999. %



35 Incident Energy (eV) 70-Yb-171

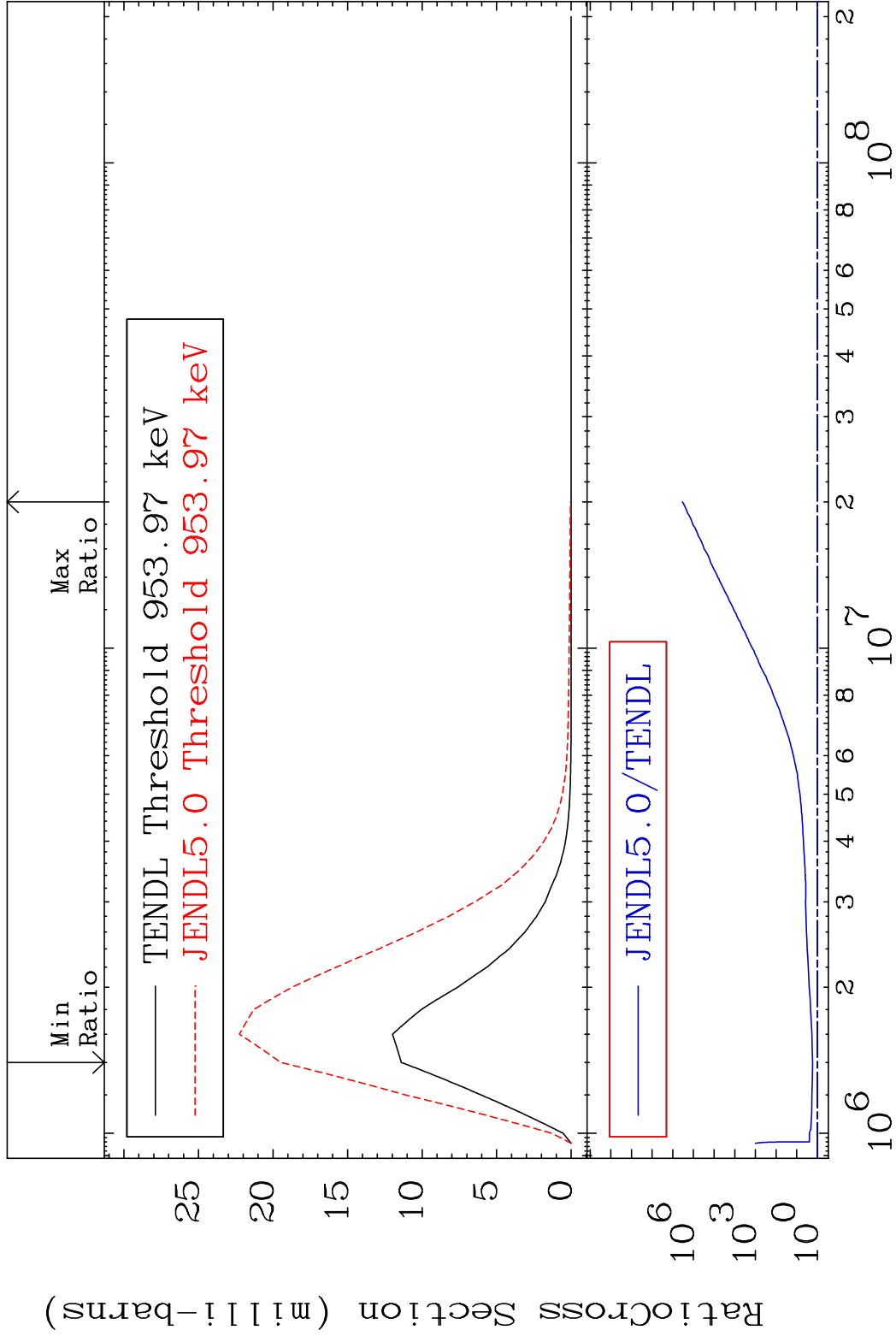


MAT 7034 MT= 79 (n,n') Level 70-Yb-171
Cross Section 64.33 To 9999. %

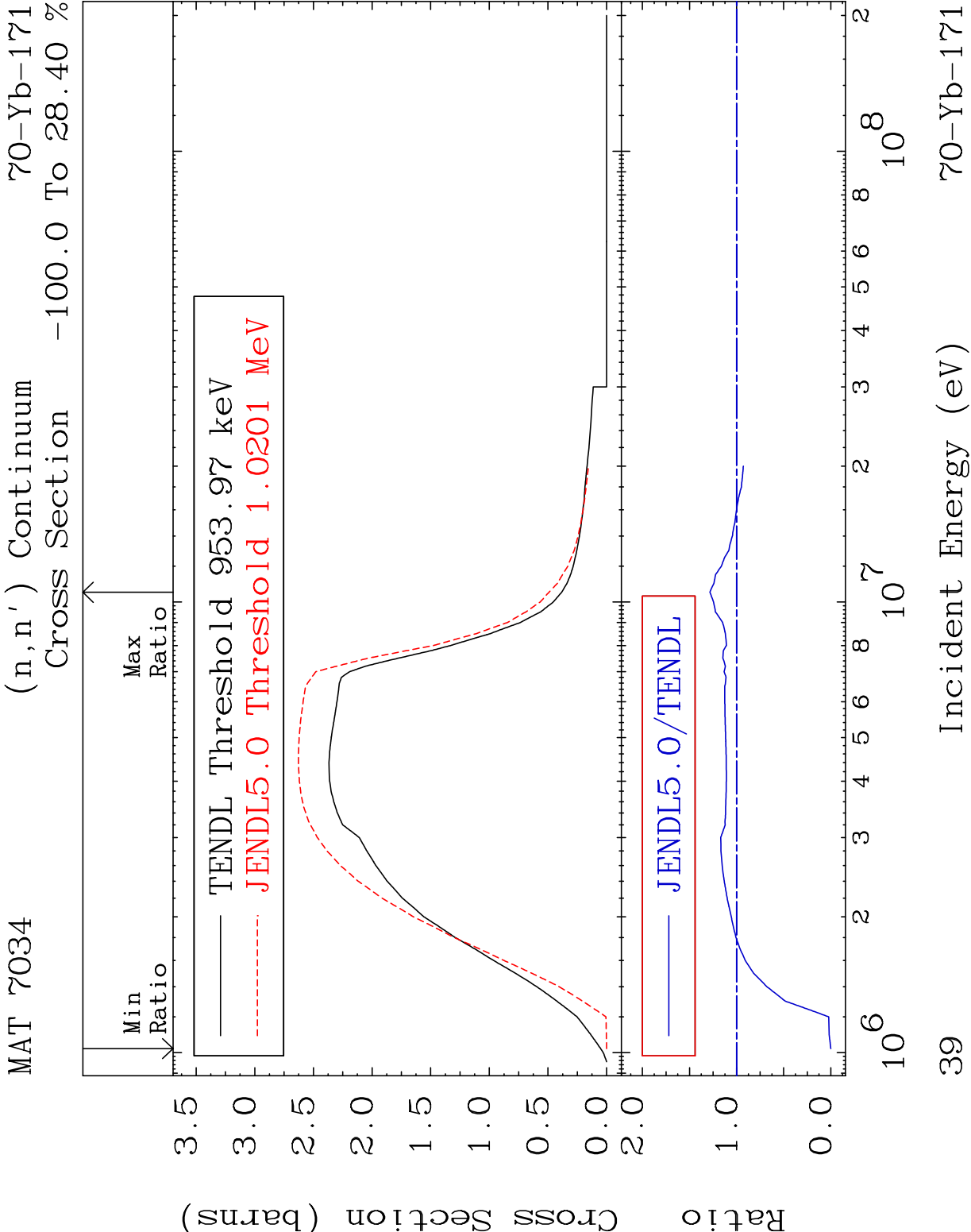


37 Incident Energy (eV) 70-Yb-171

MAT 7034 MT= 80 (n,n') Level 70-Yb-171
Cross Section 71.02 To 9999. %



38 Incident Energy (eV) 70-Yb-171



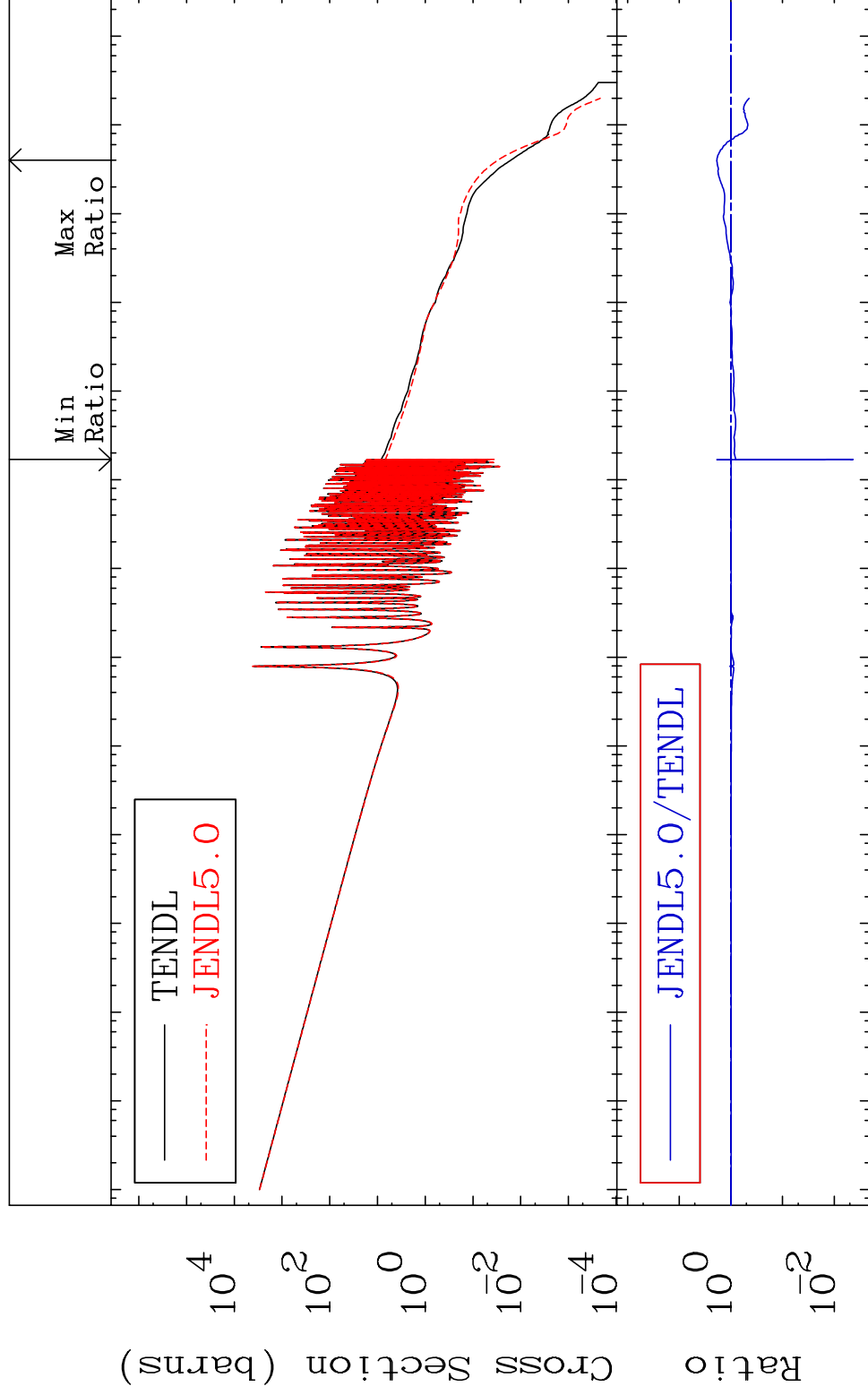
MAT 7034

(n, γ)

70-Yb-171

Cross Section

-99.57 To 88.74 %

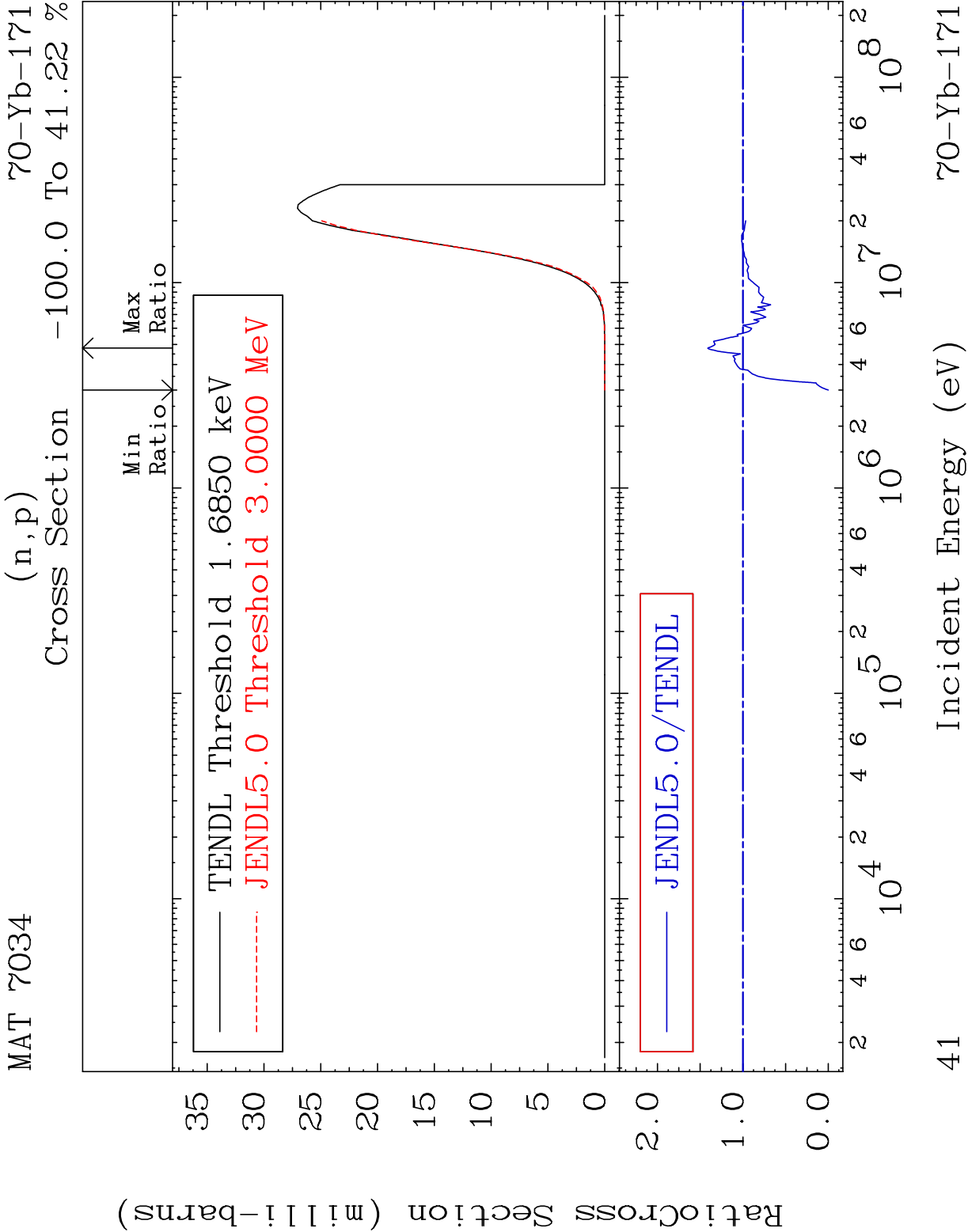


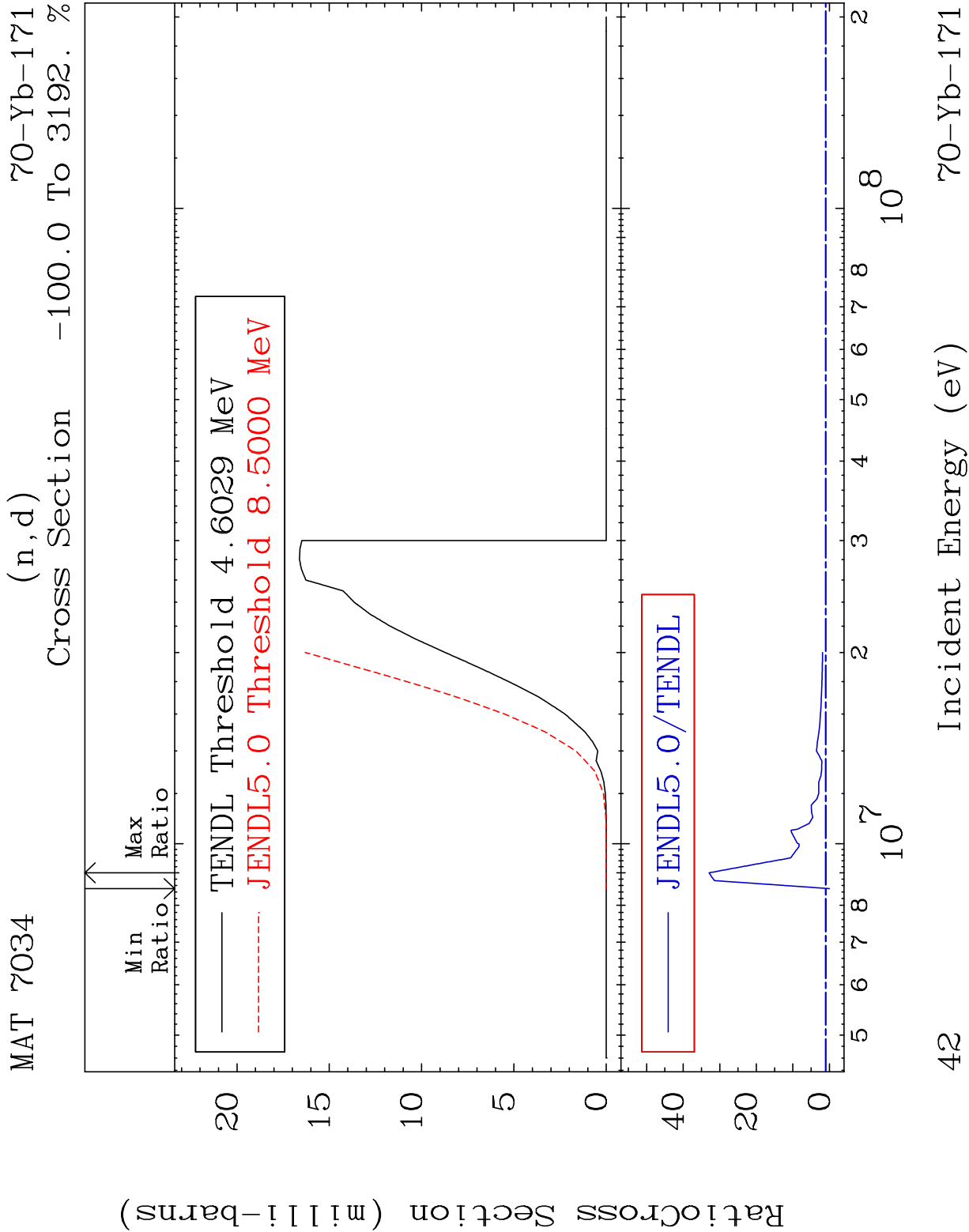
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

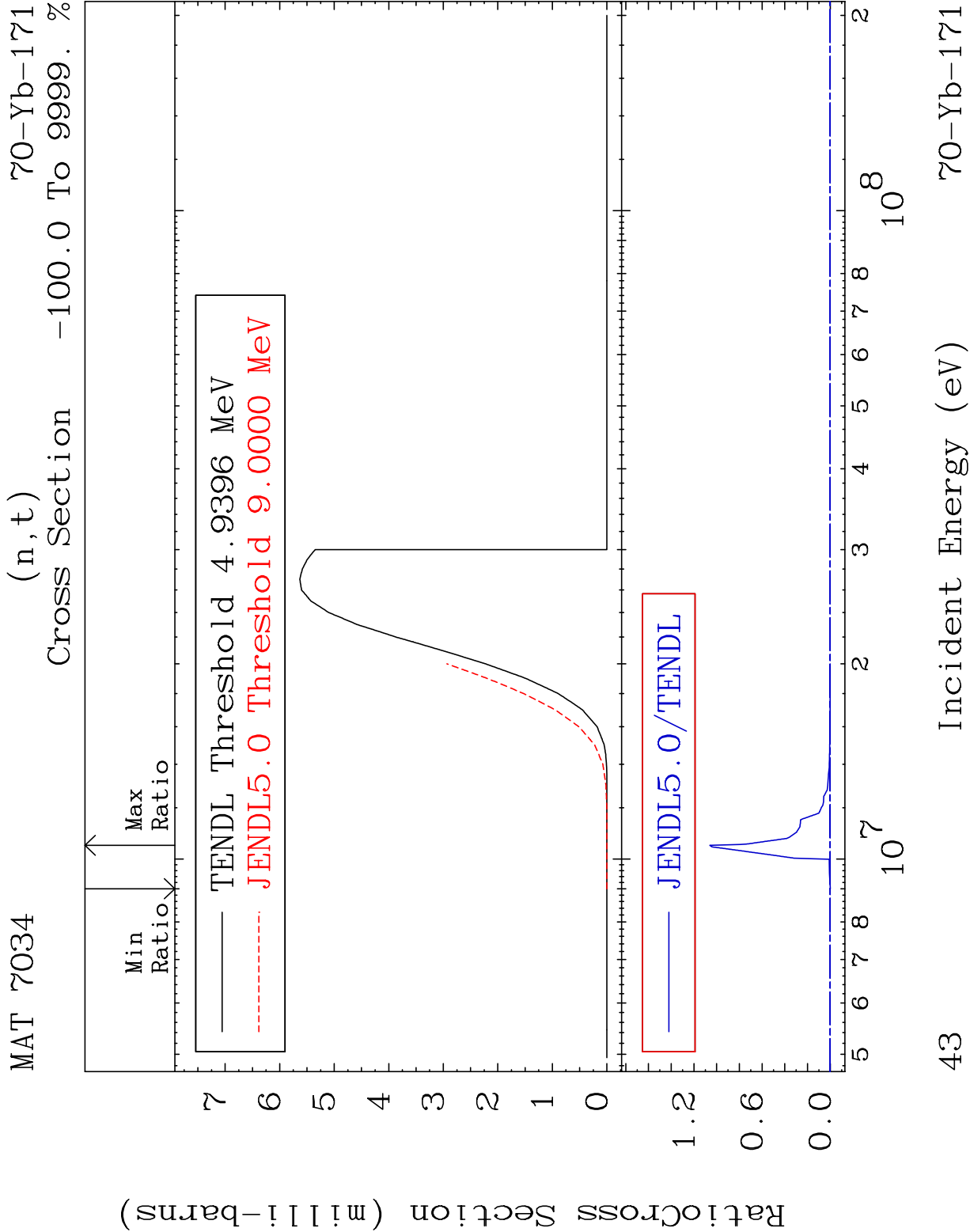
40

Incident Energy (eV)

70-Yb-171





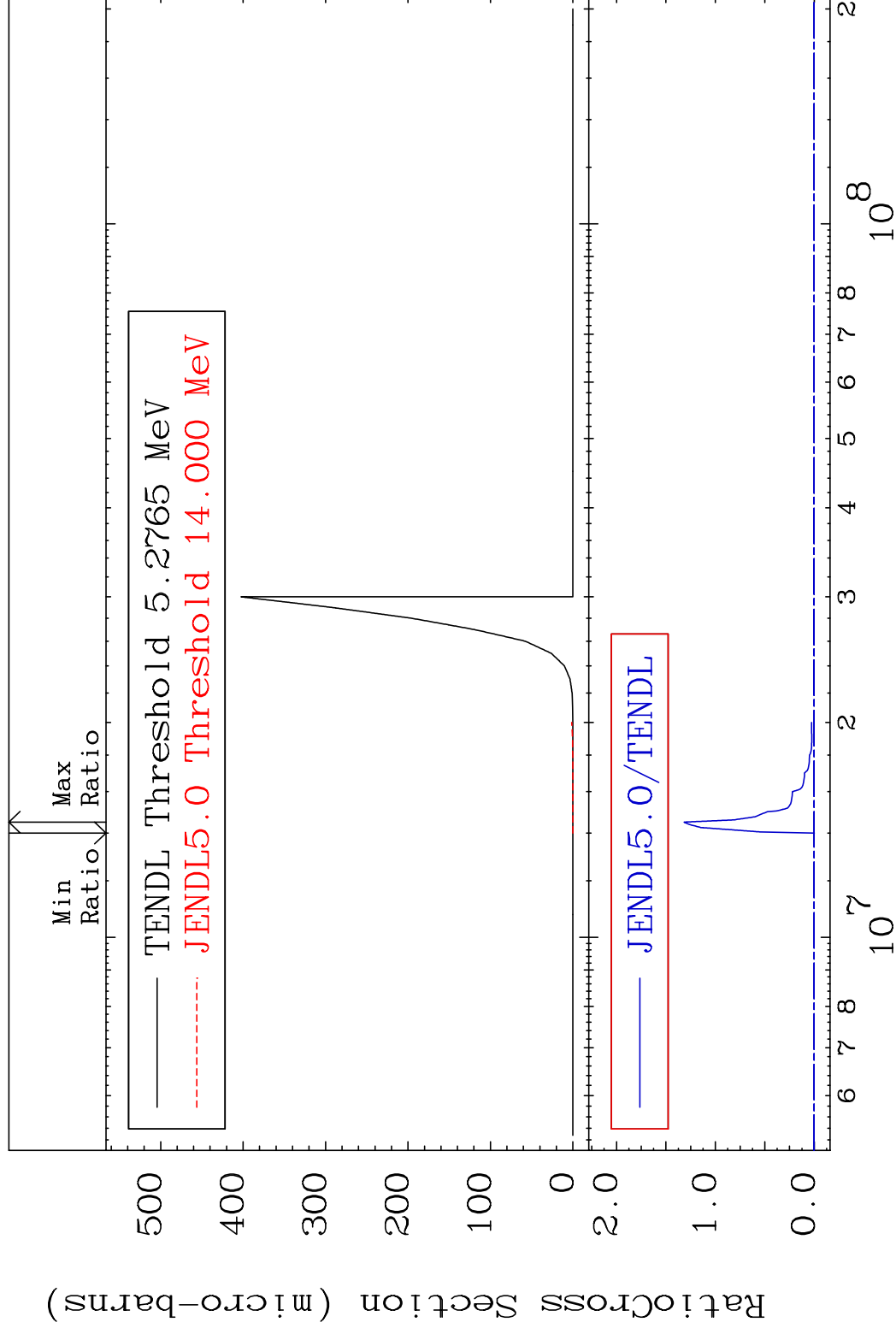


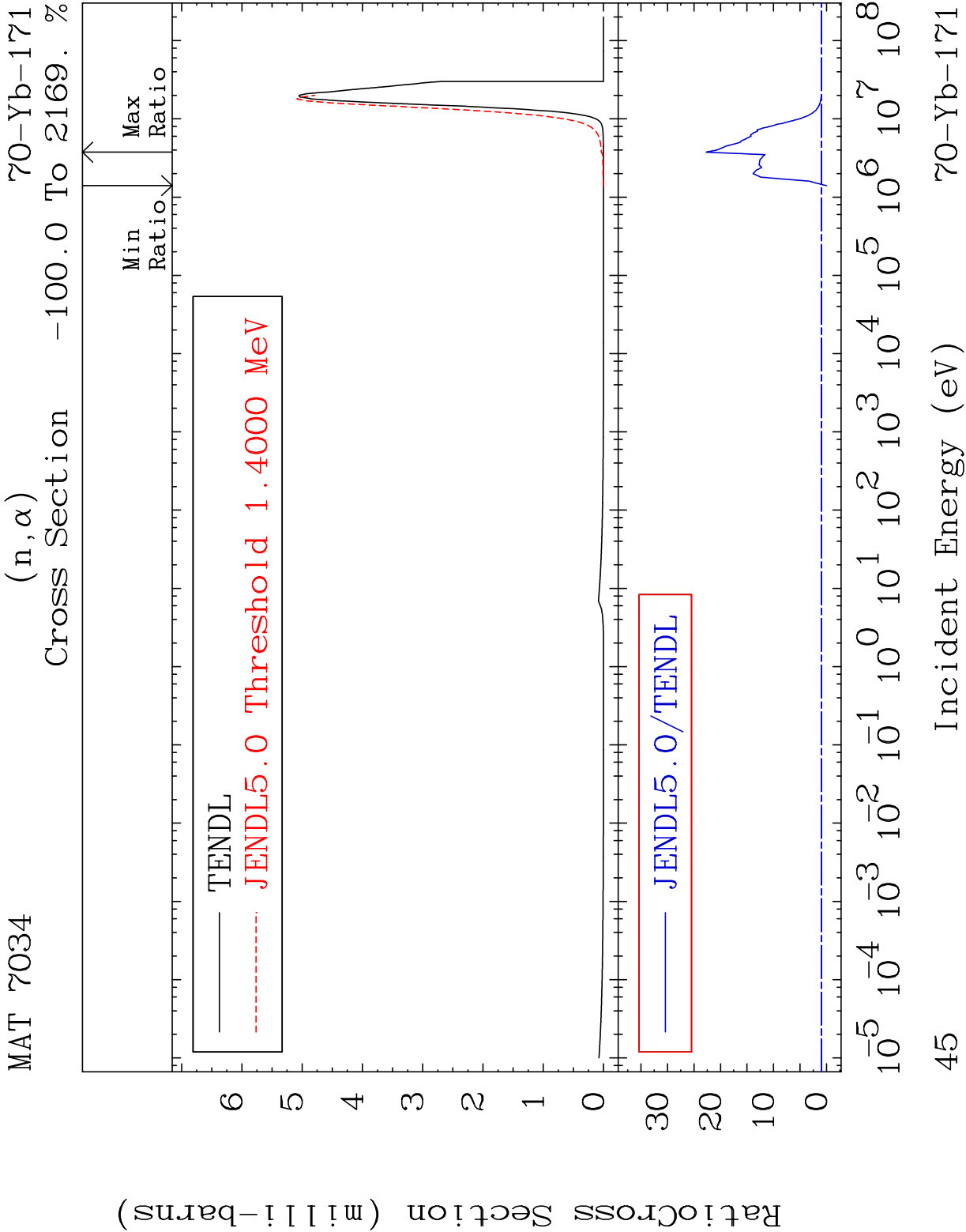
MAT 7034

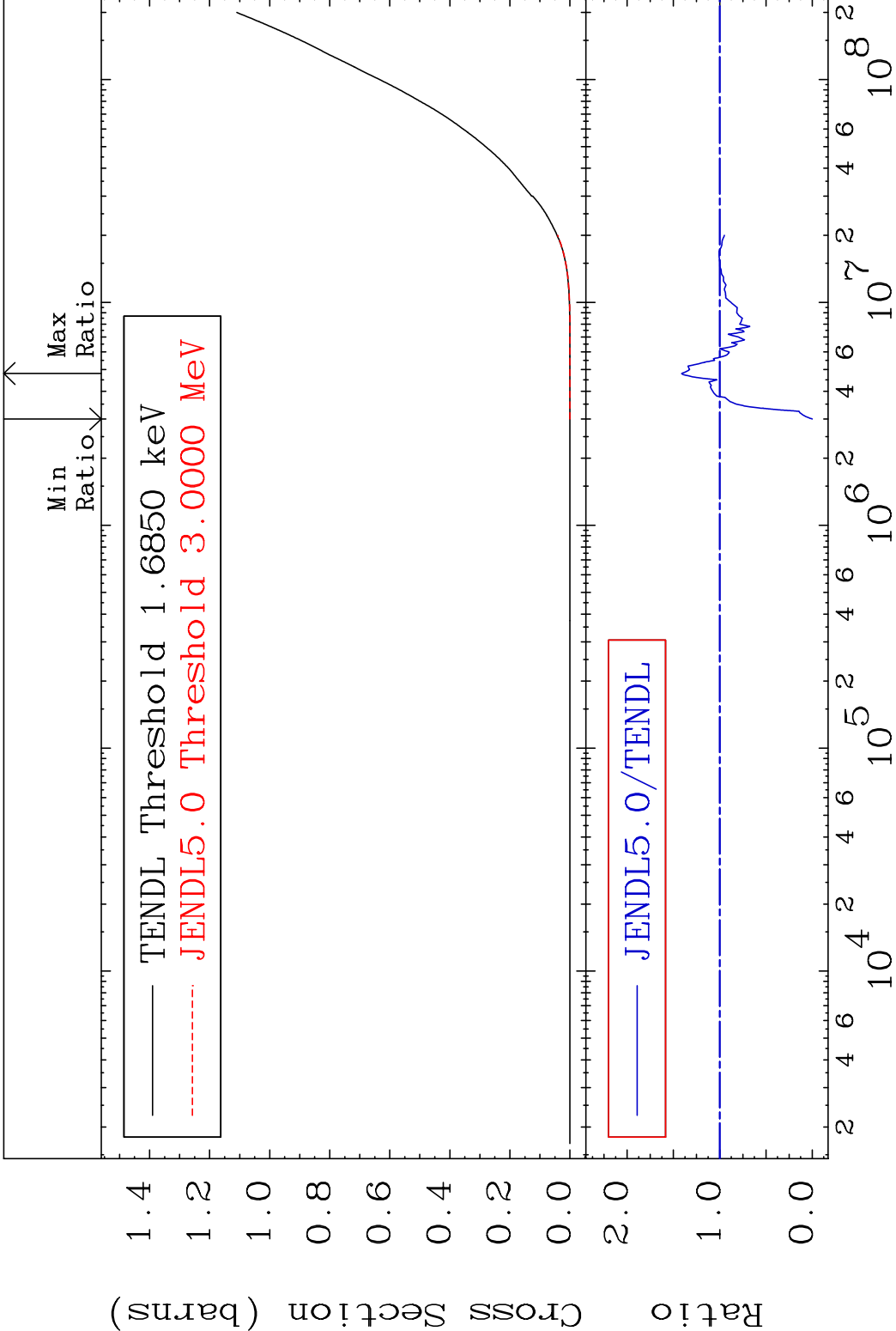
 $(n, \text{He-3})$

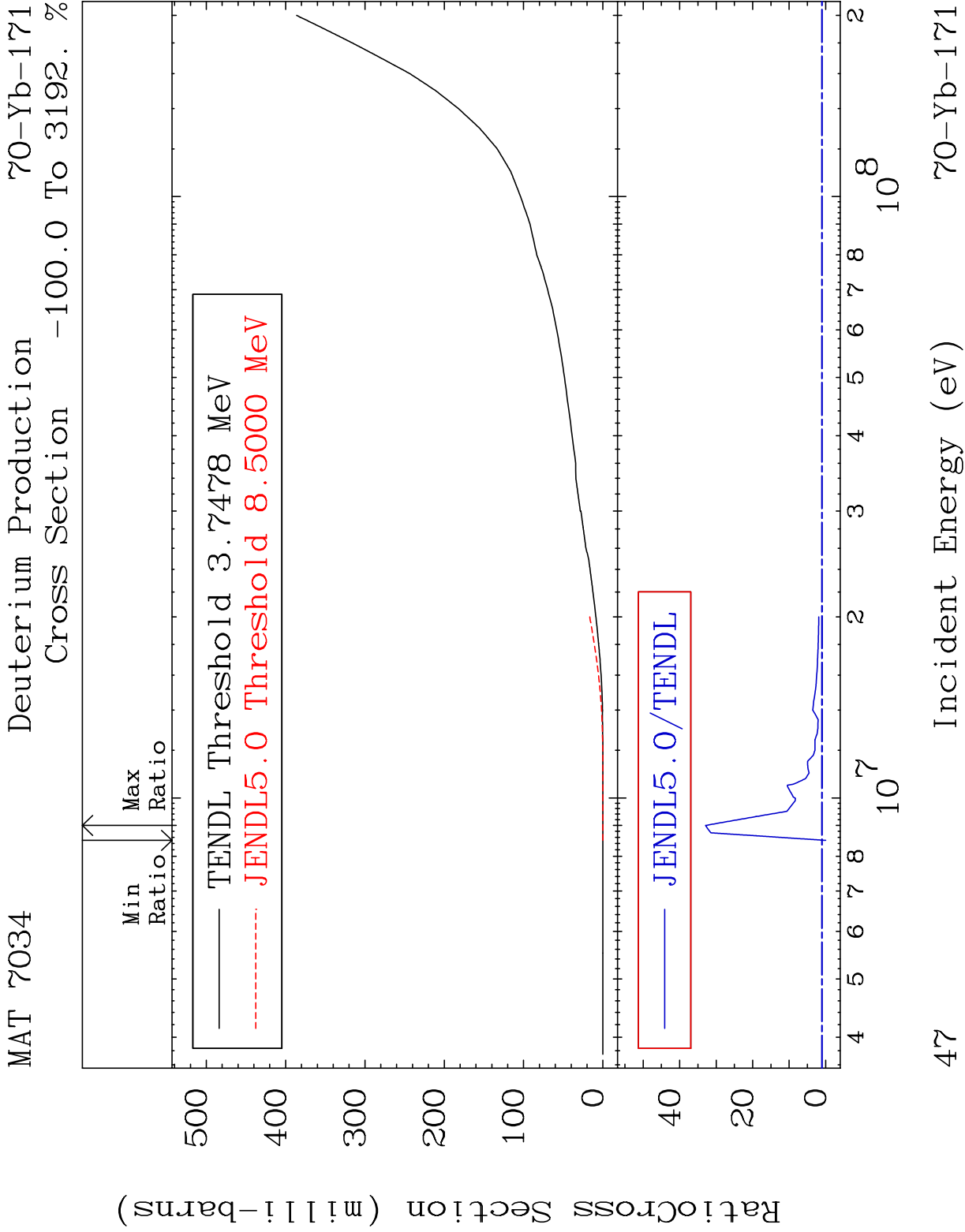
70-Yb-171

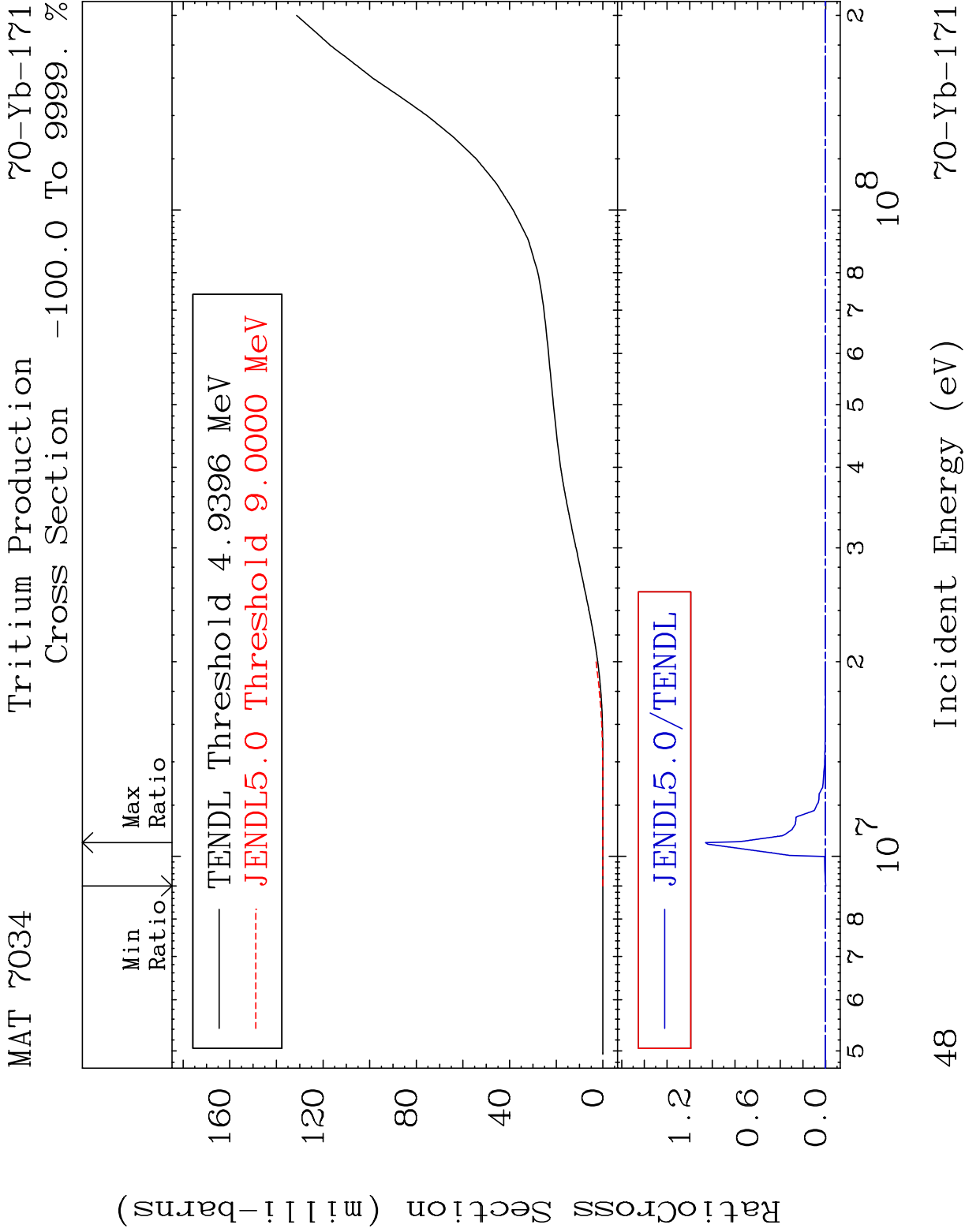
Cross Section -100.0 To 9999. %



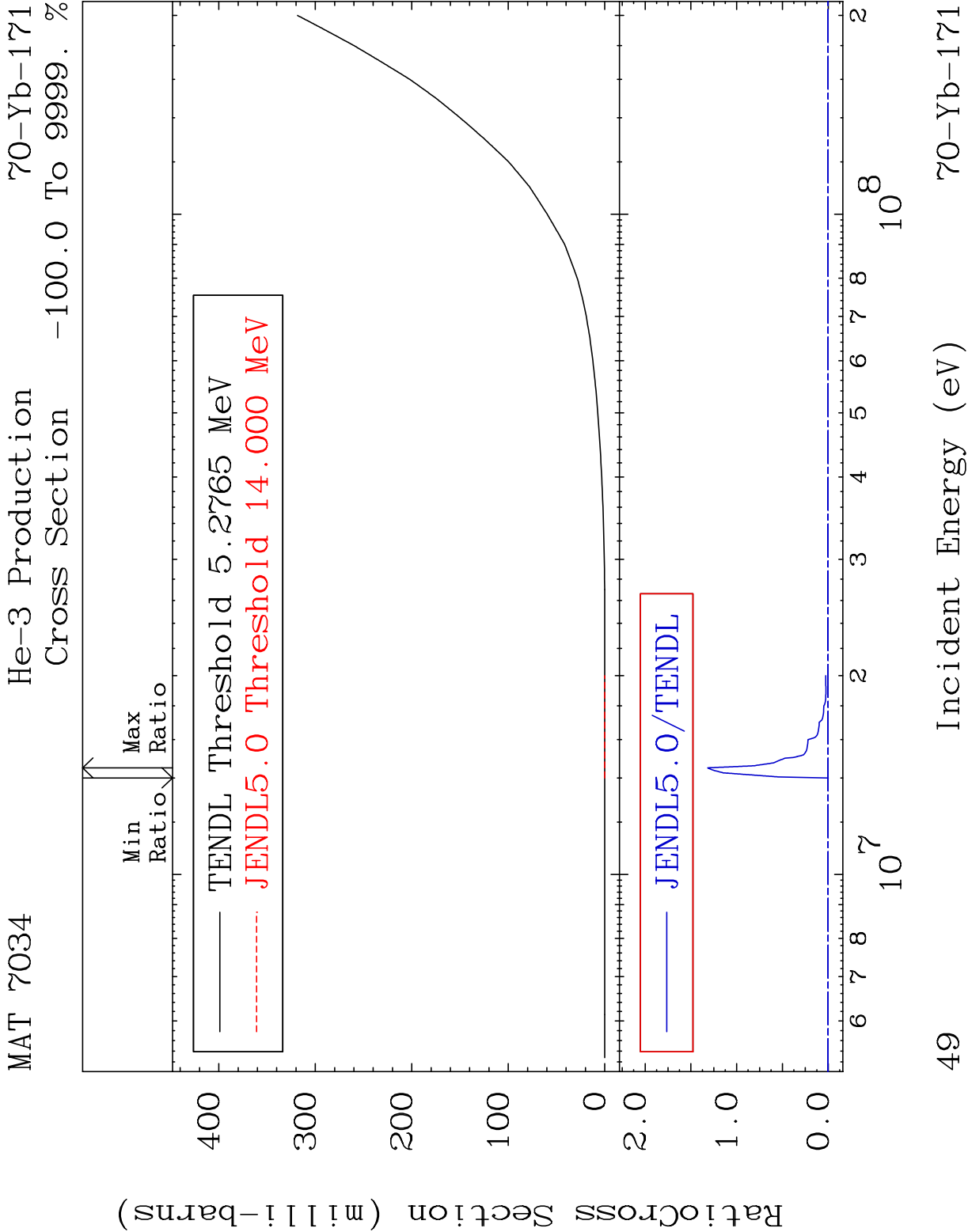


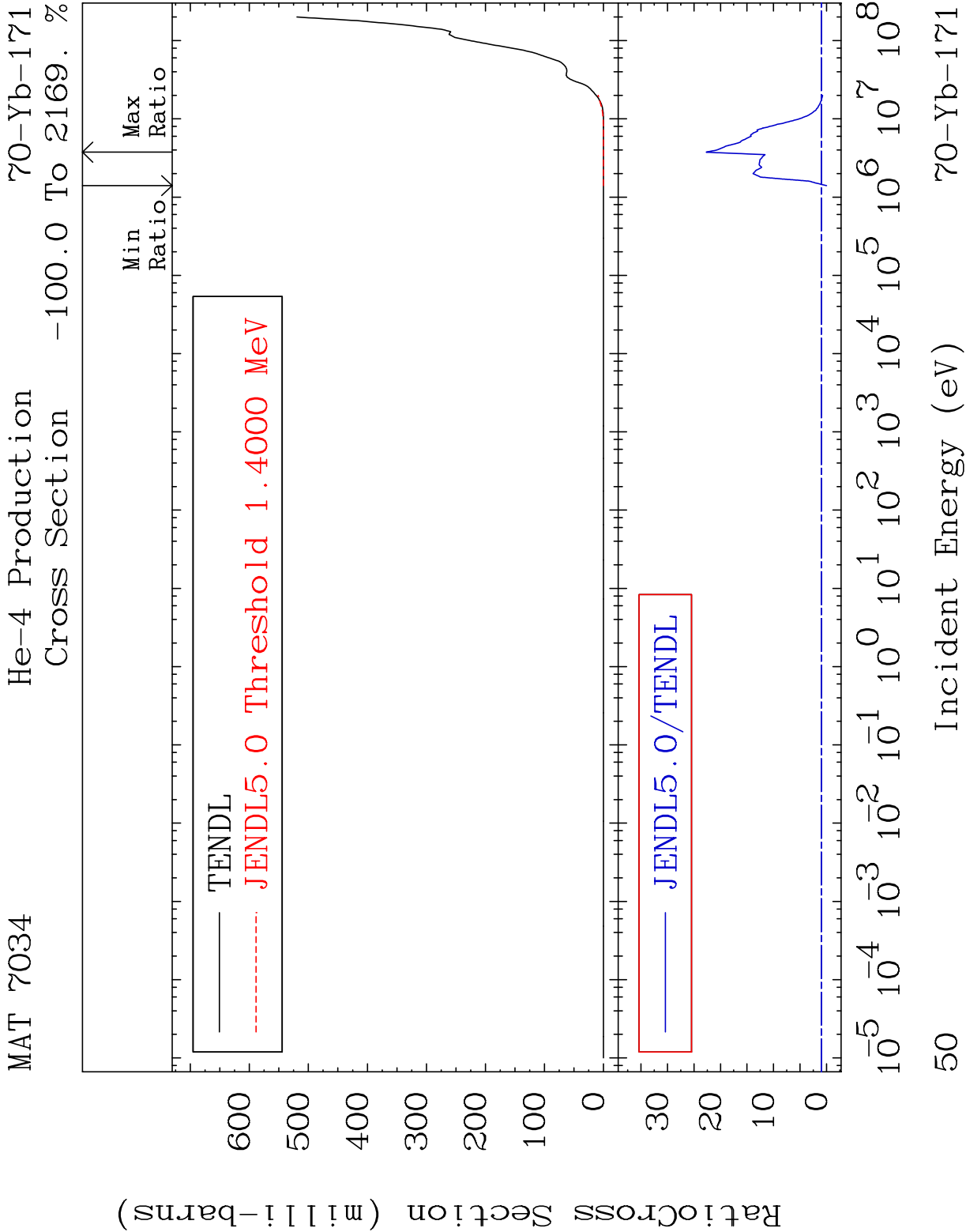


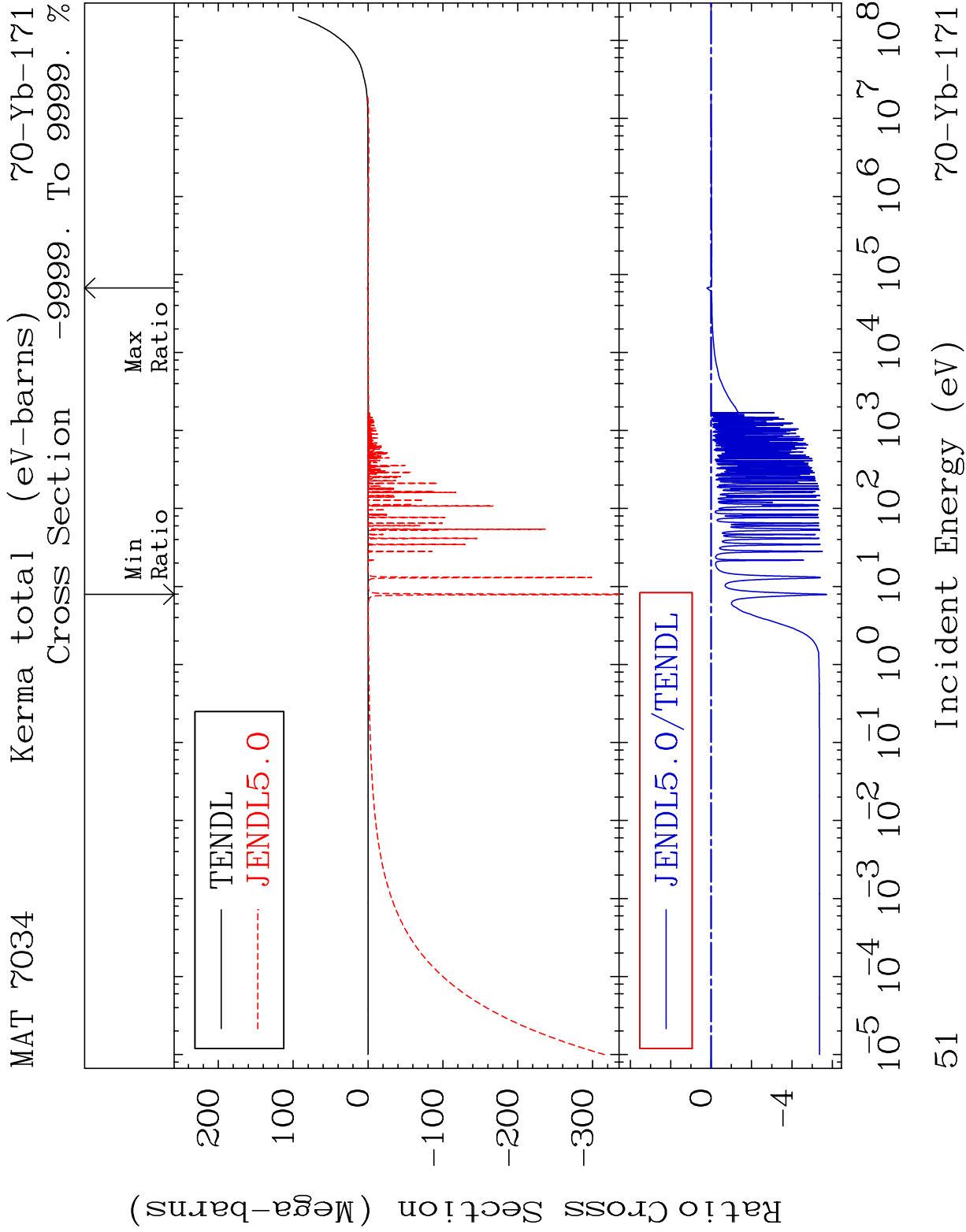


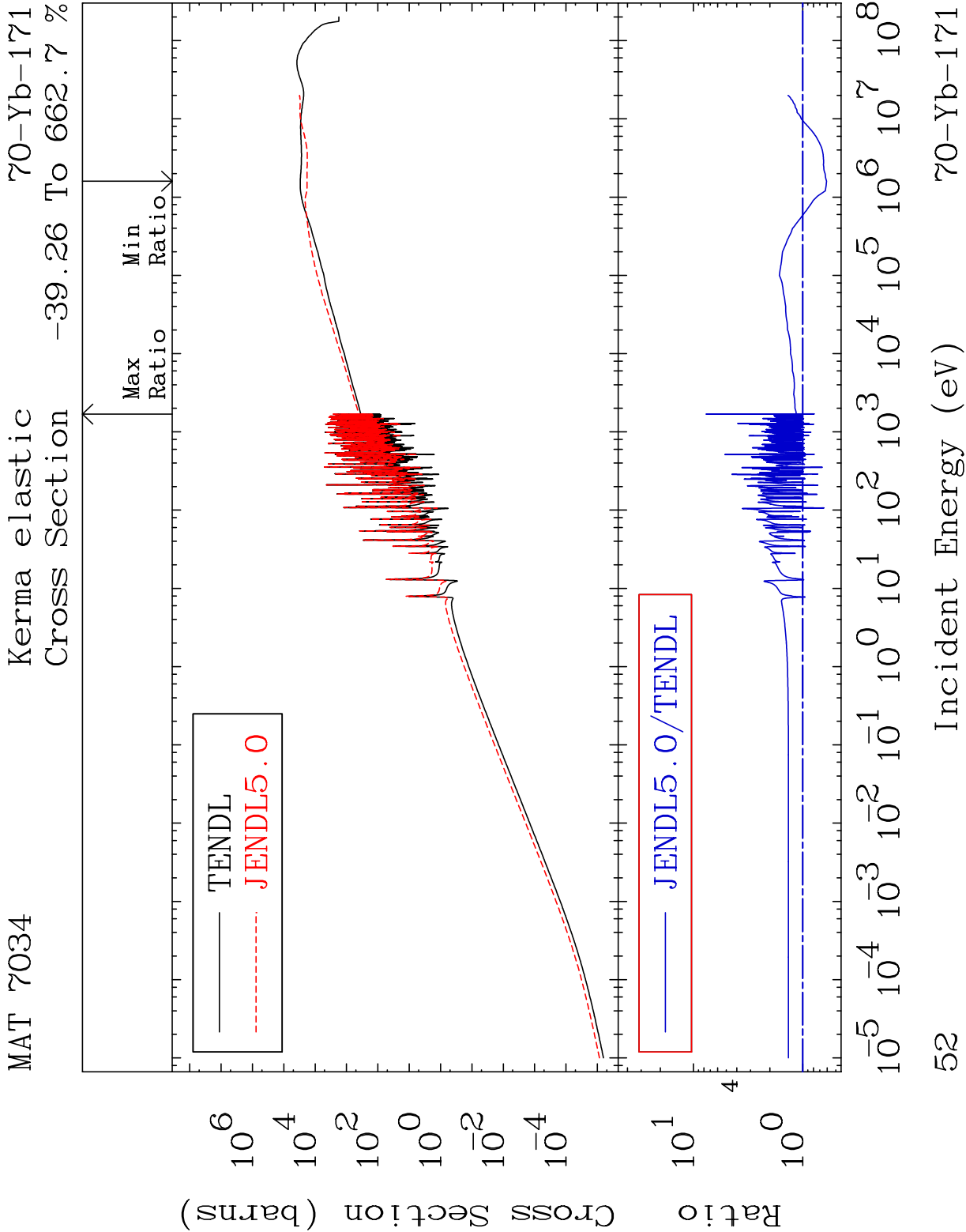


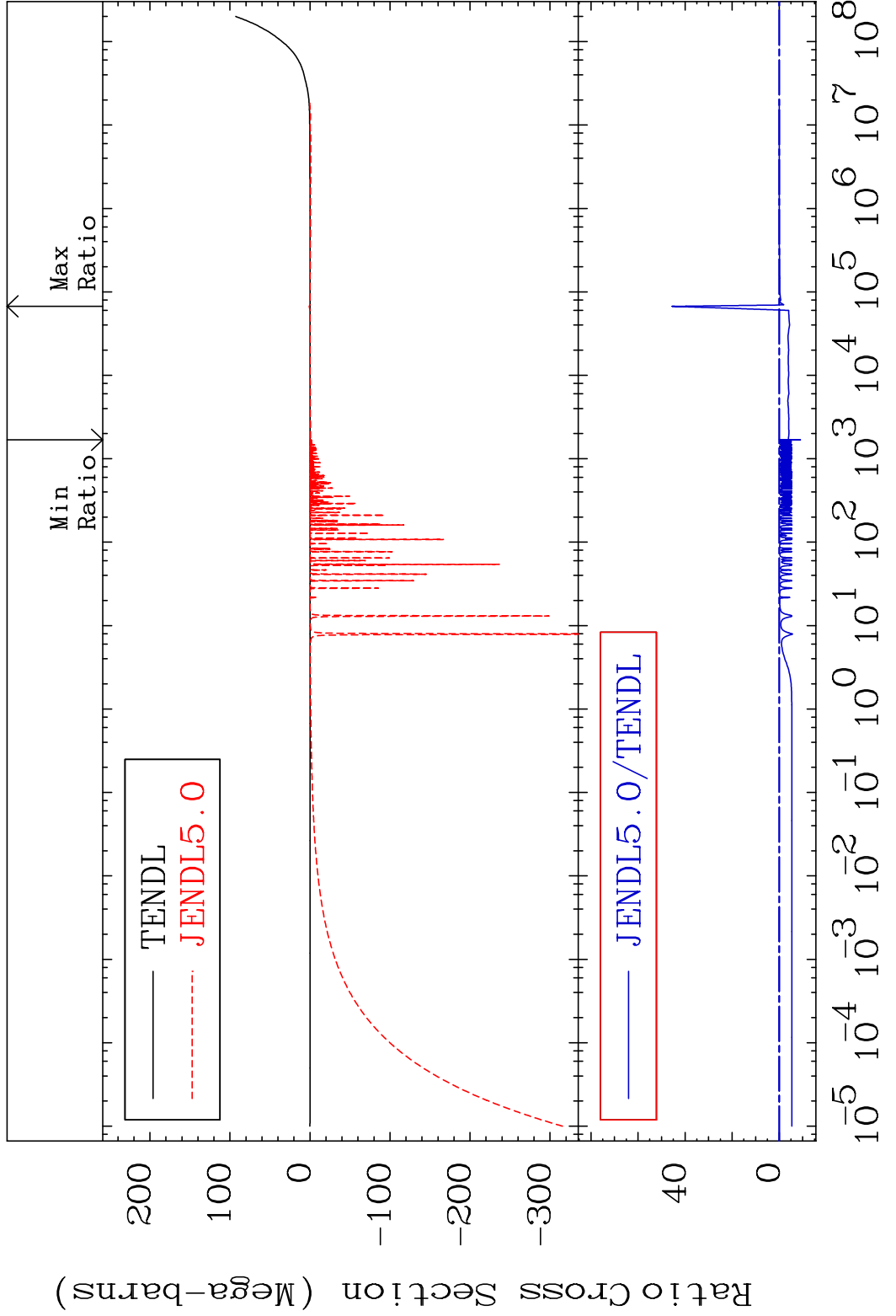
RatioCross Section (milli-barns)

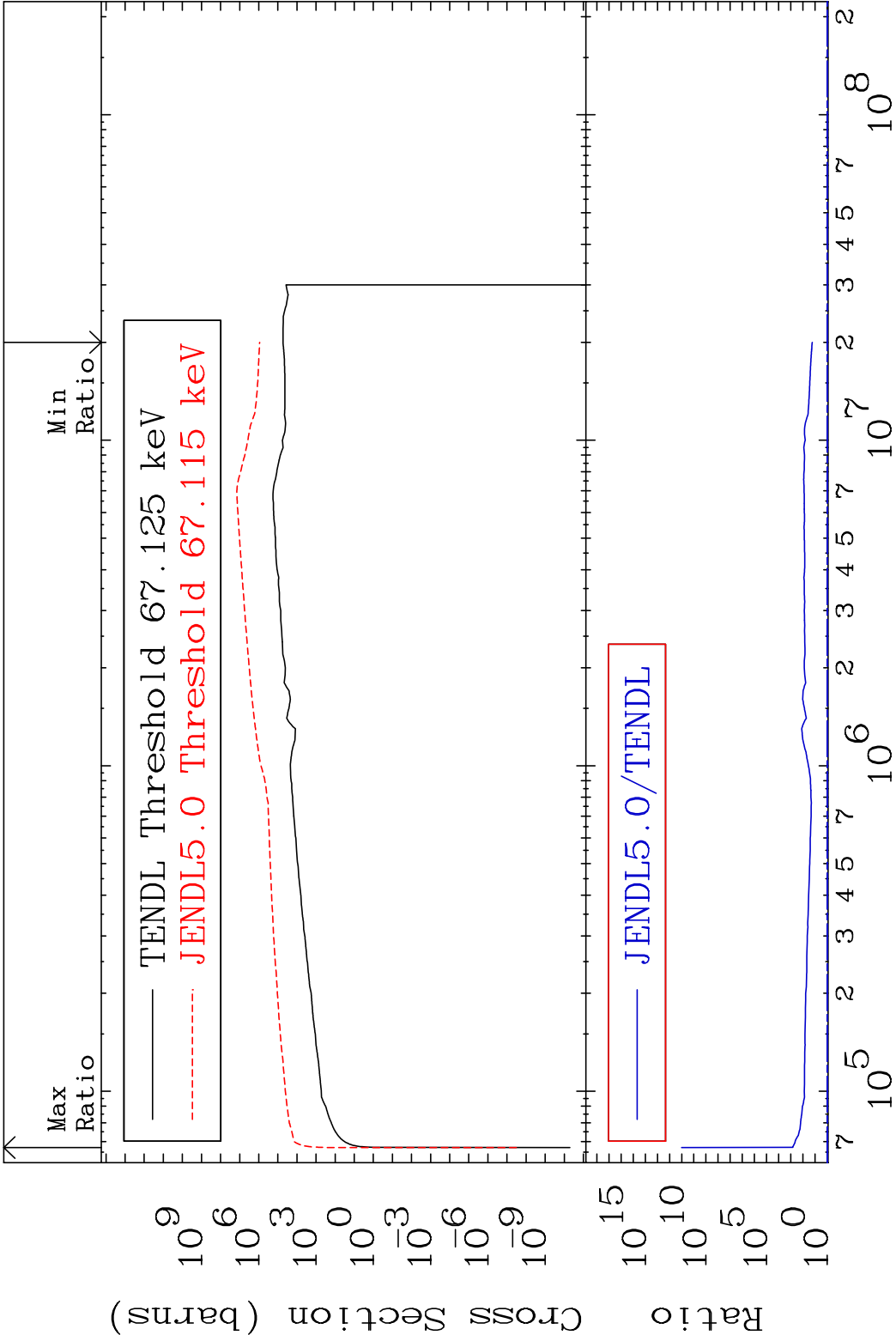




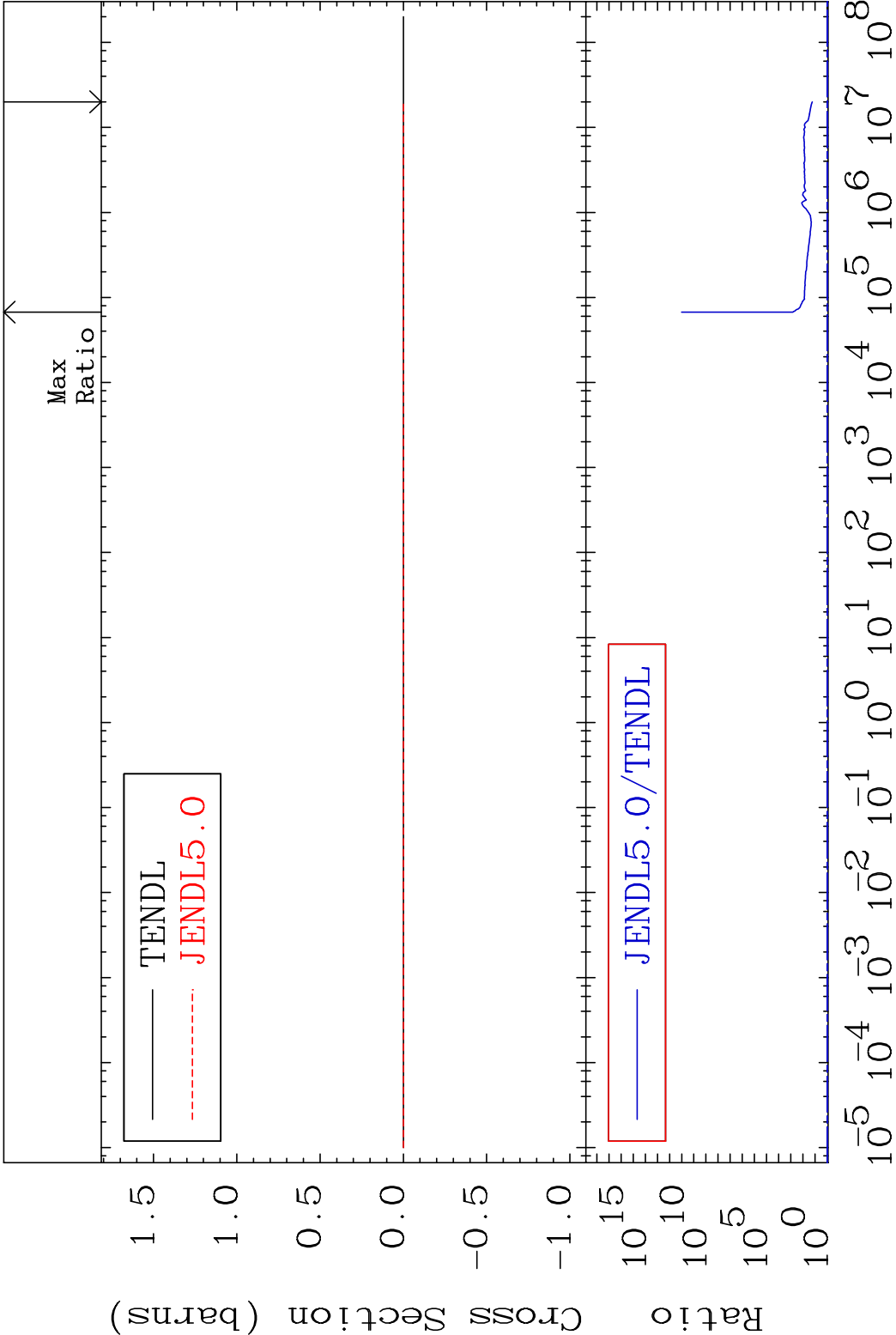


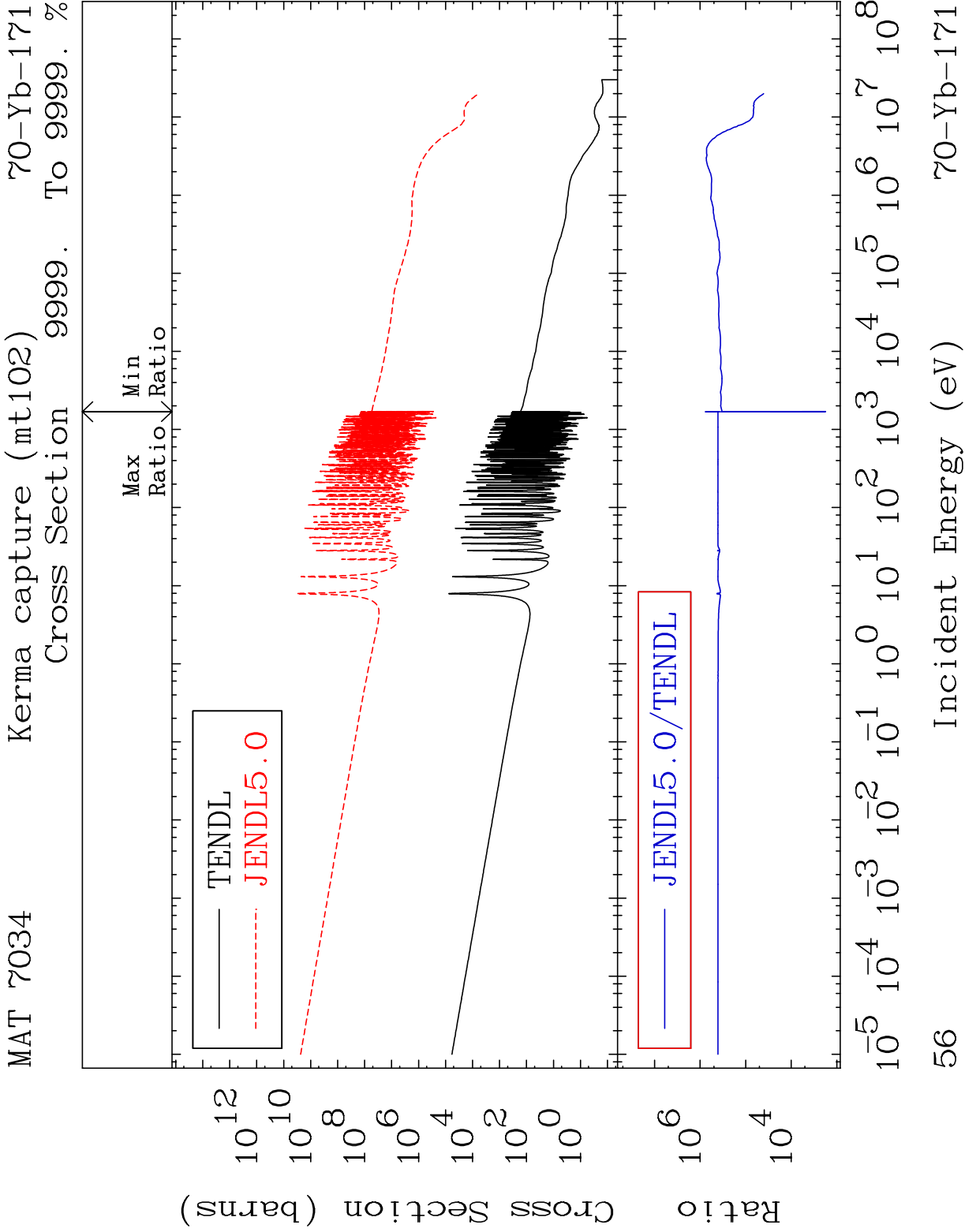


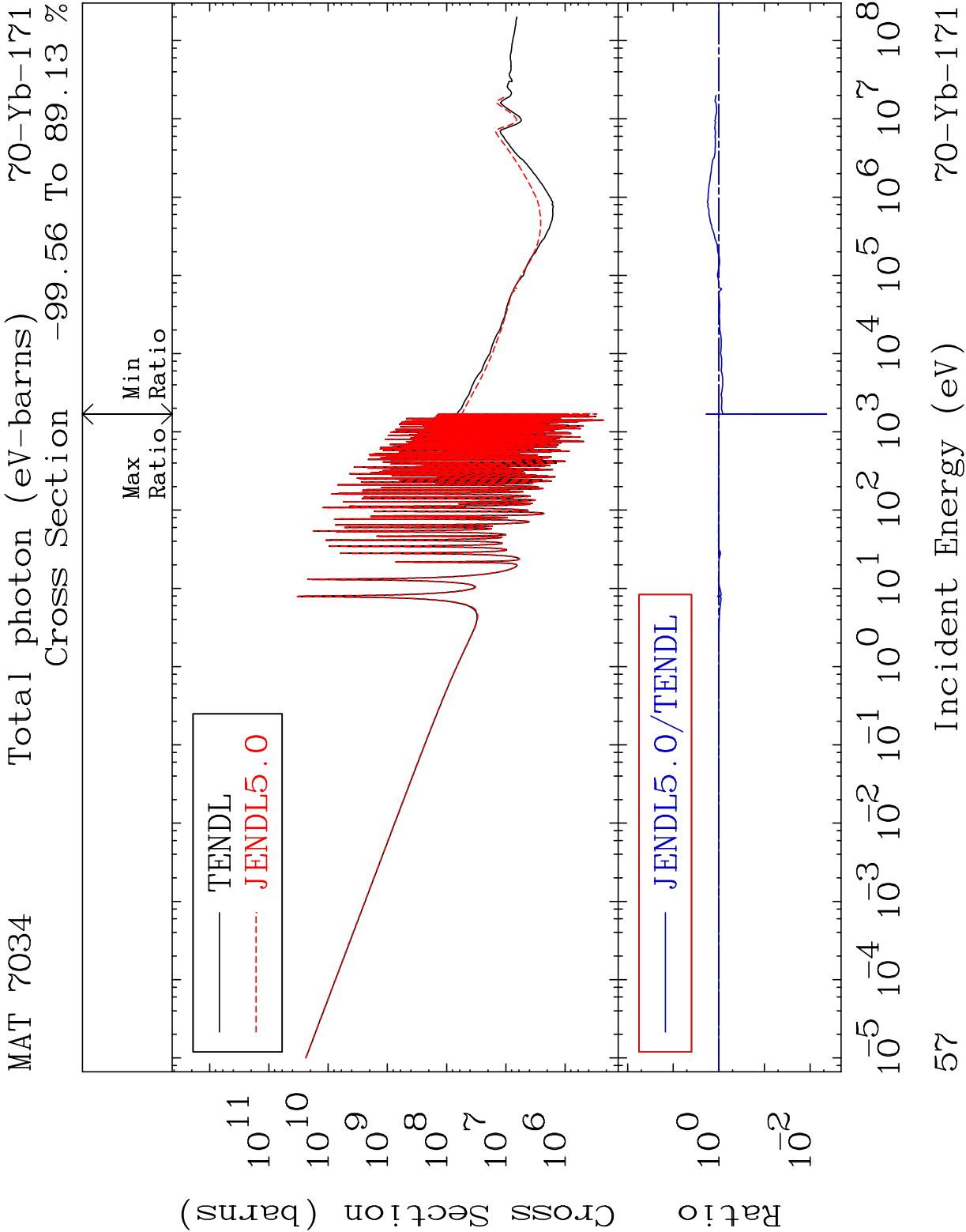




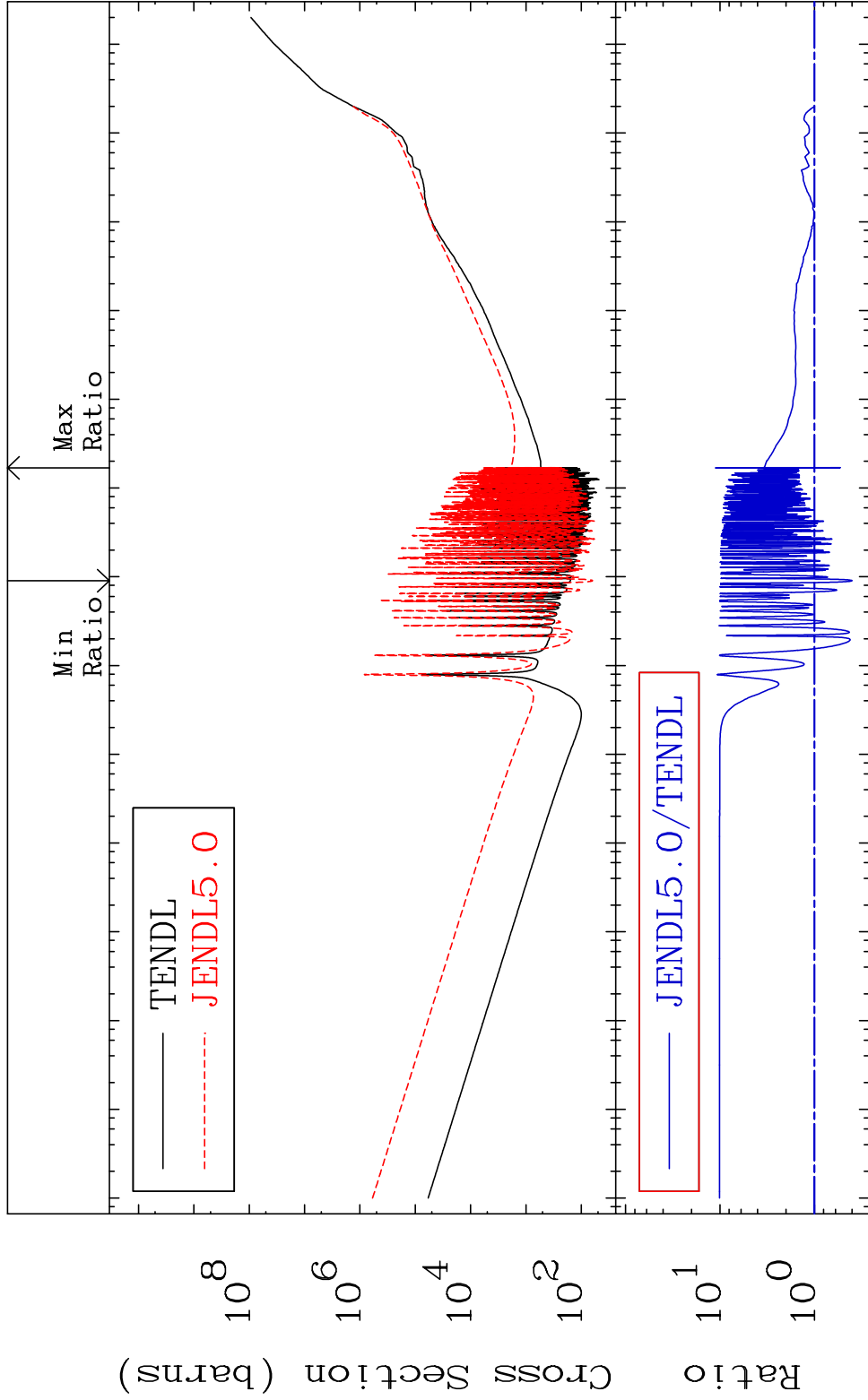
MAT 7034 Kerma fission (mt18 or mt19-20-21-38)70-Yb-171
Cross Section 1584. To 9999. %





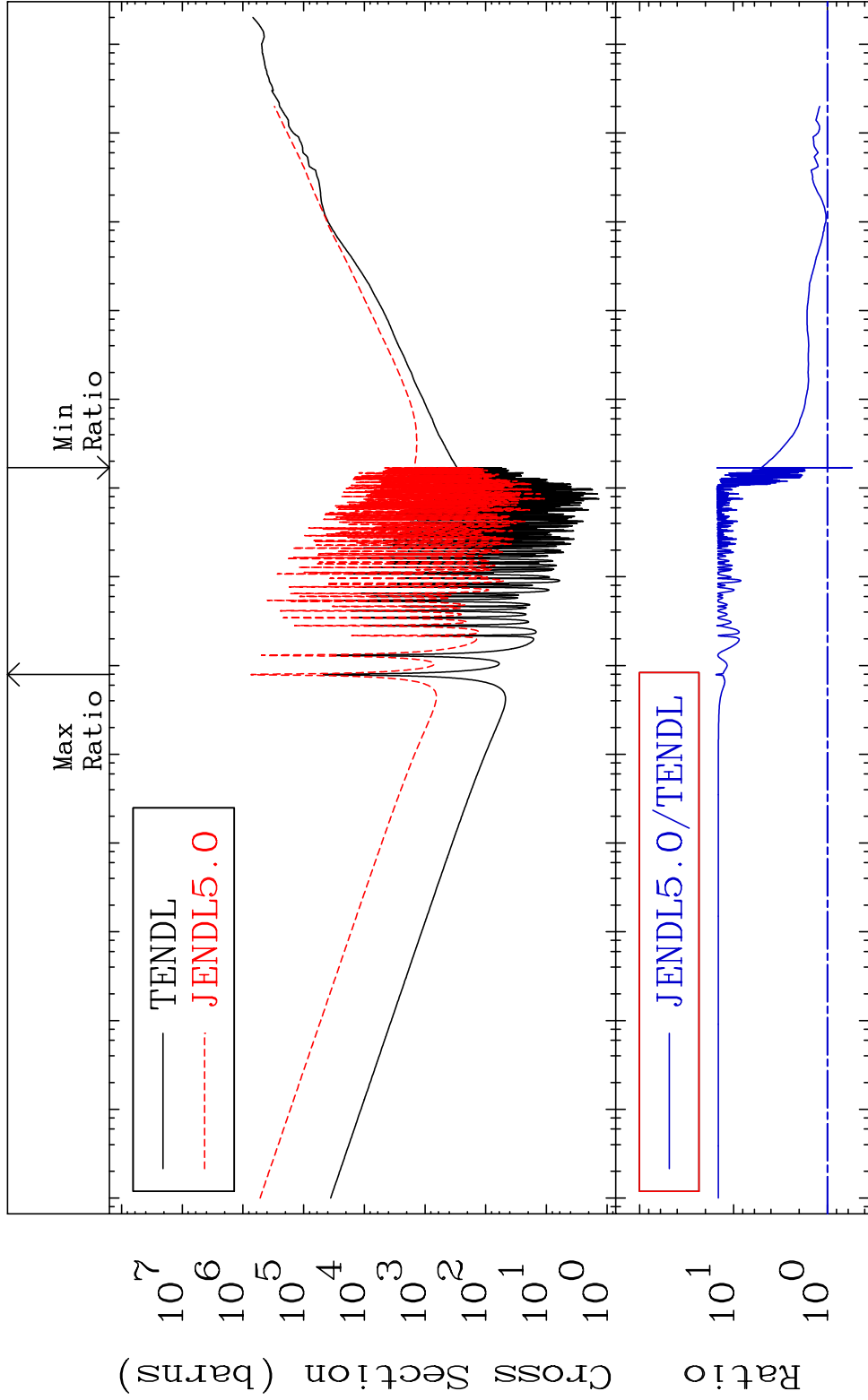


MAT 7034 Total kinematic kerma (high limit) 70-Yb-171
Cross Section -60.14 To 1013. %

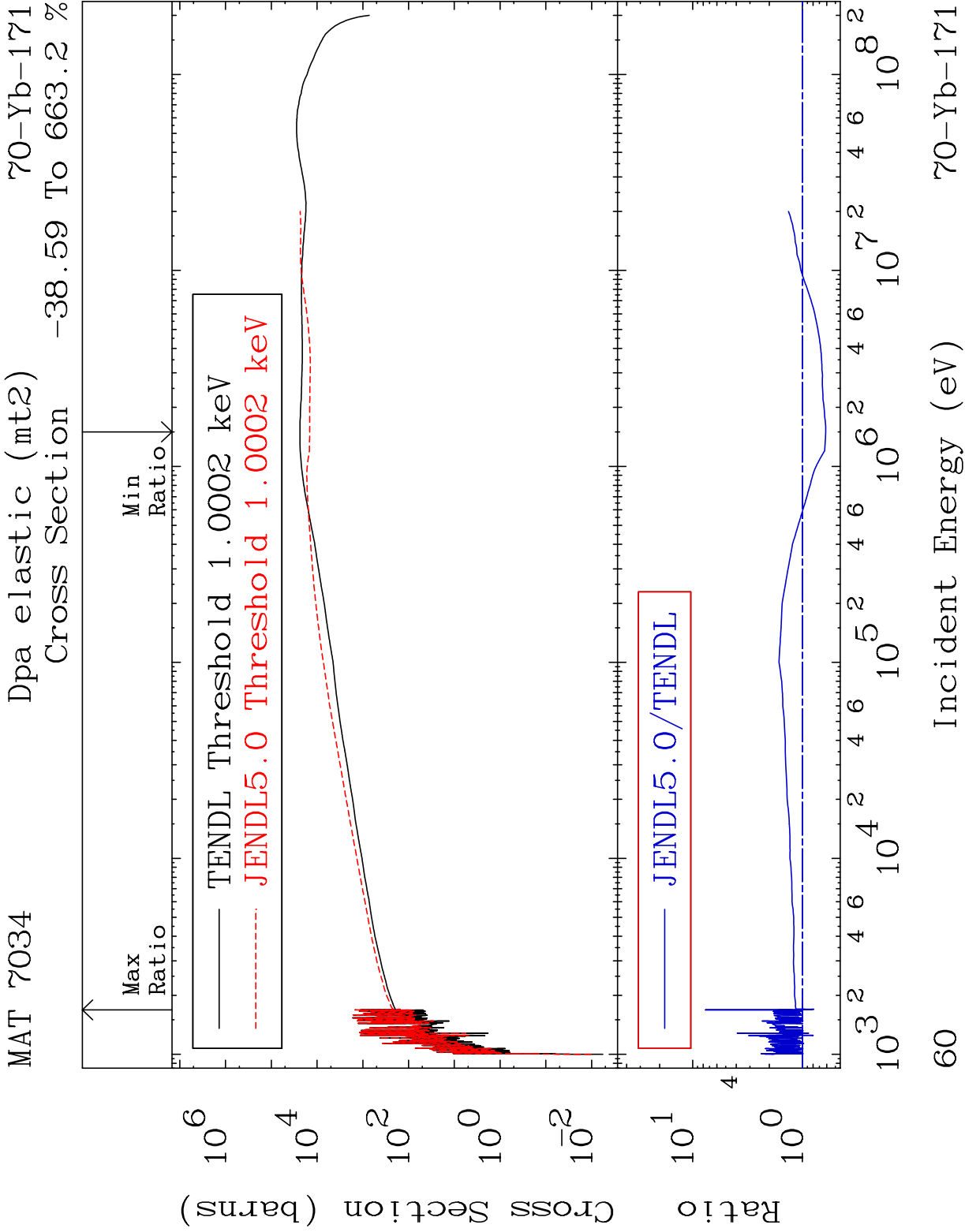


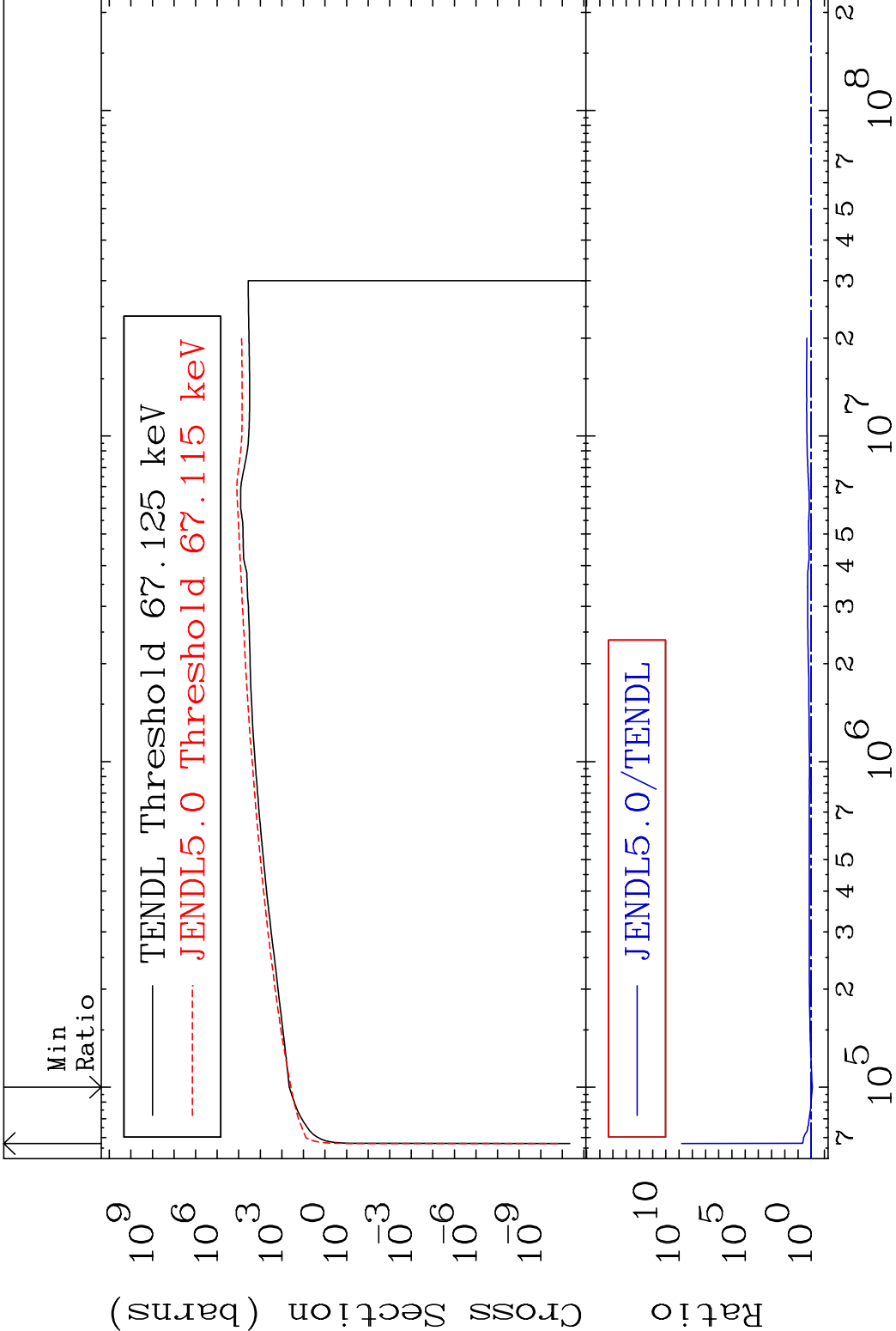
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

MAT 7034 Dpa total (eV-barns) 70-Yb-171
Cross Section -45.70 To 1451. %

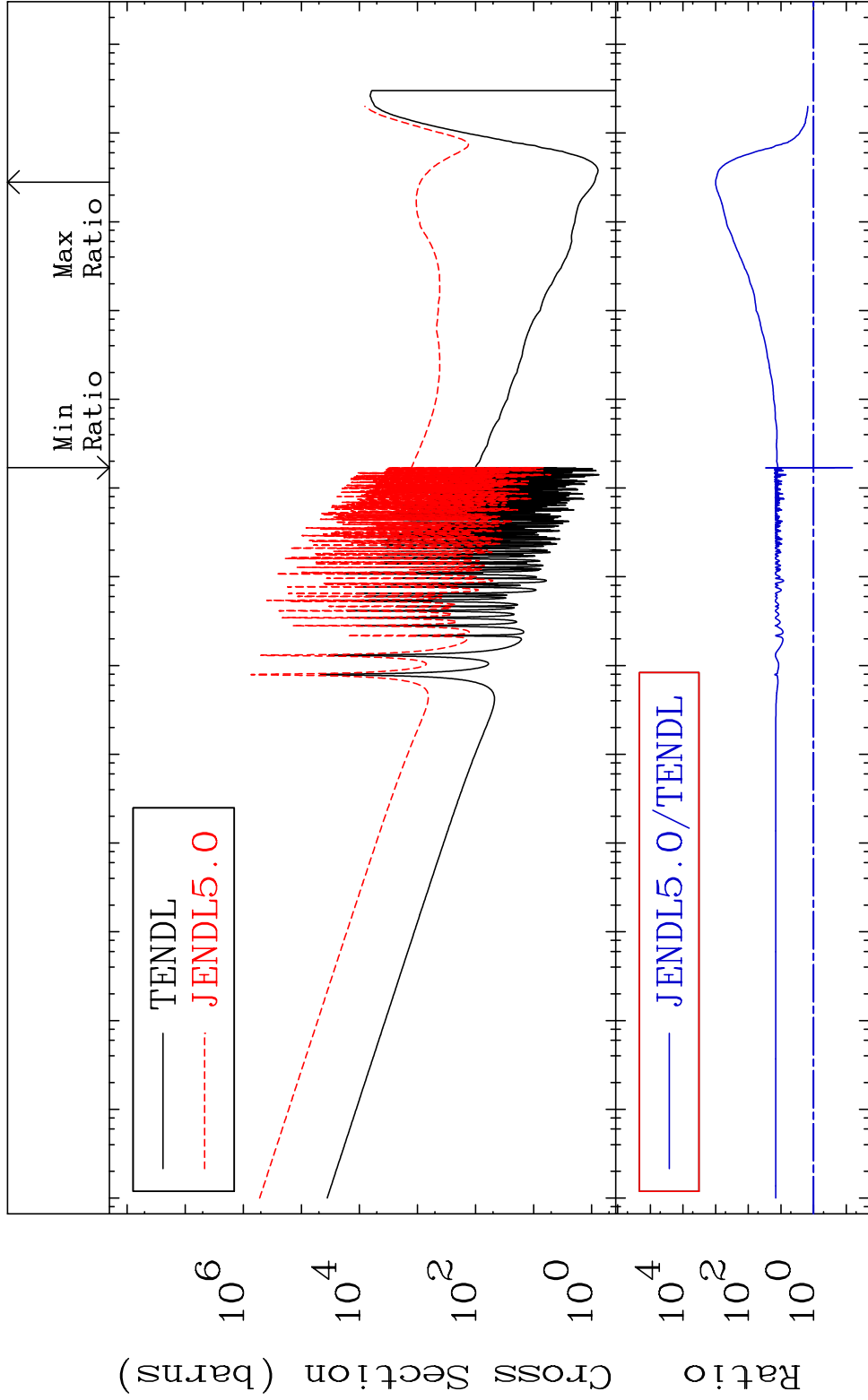


59 Incident Energy (eV) 70-Yb-171

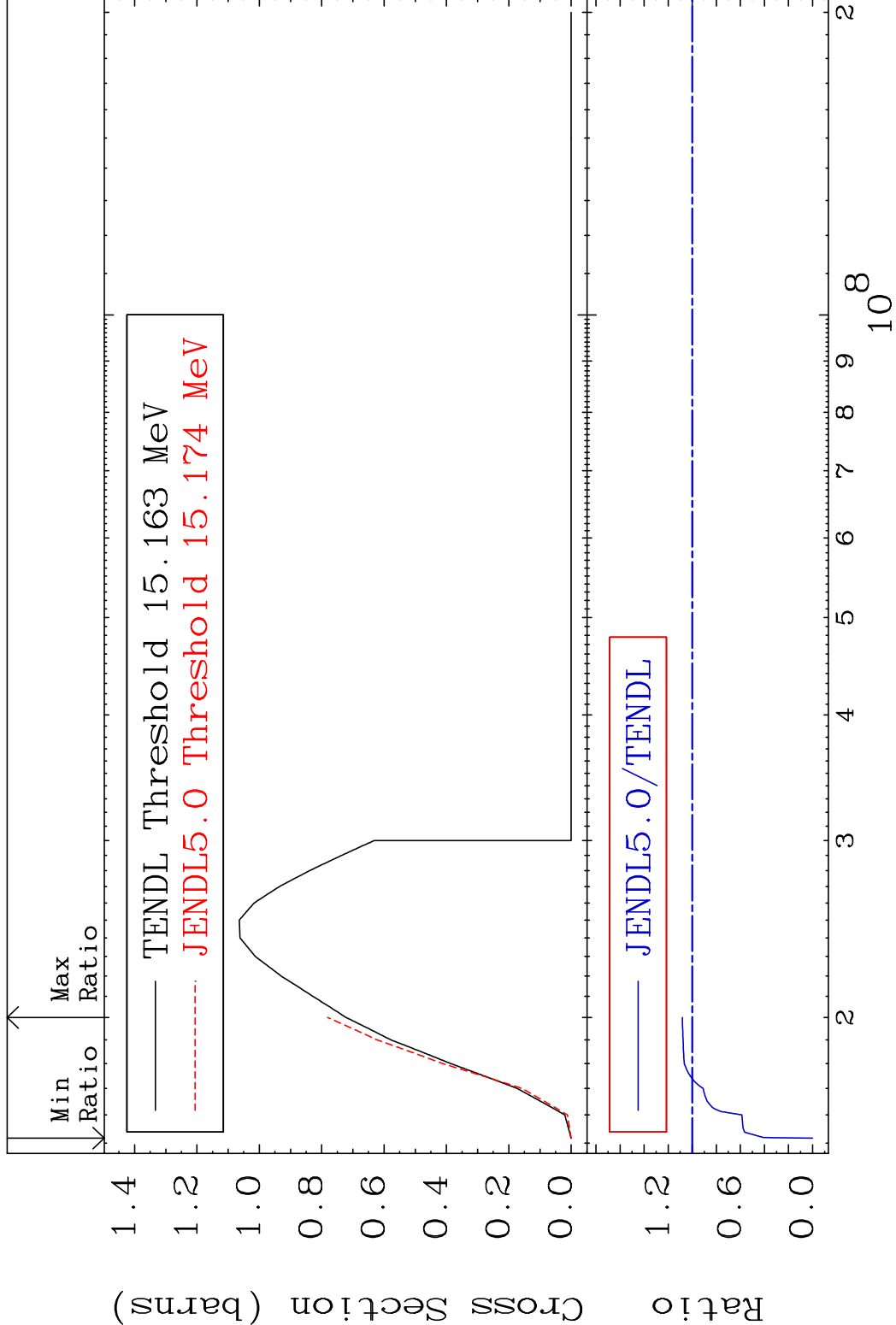


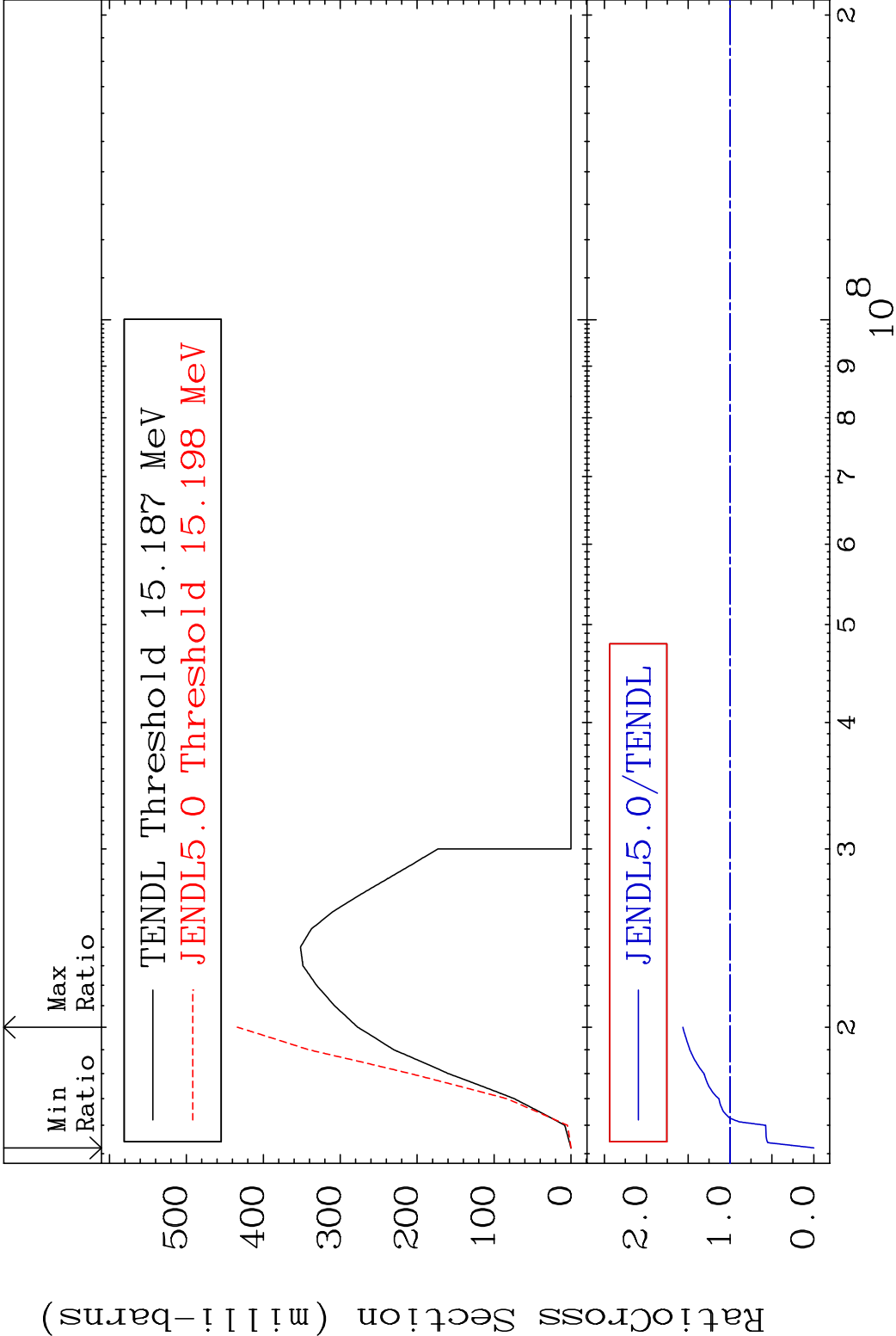


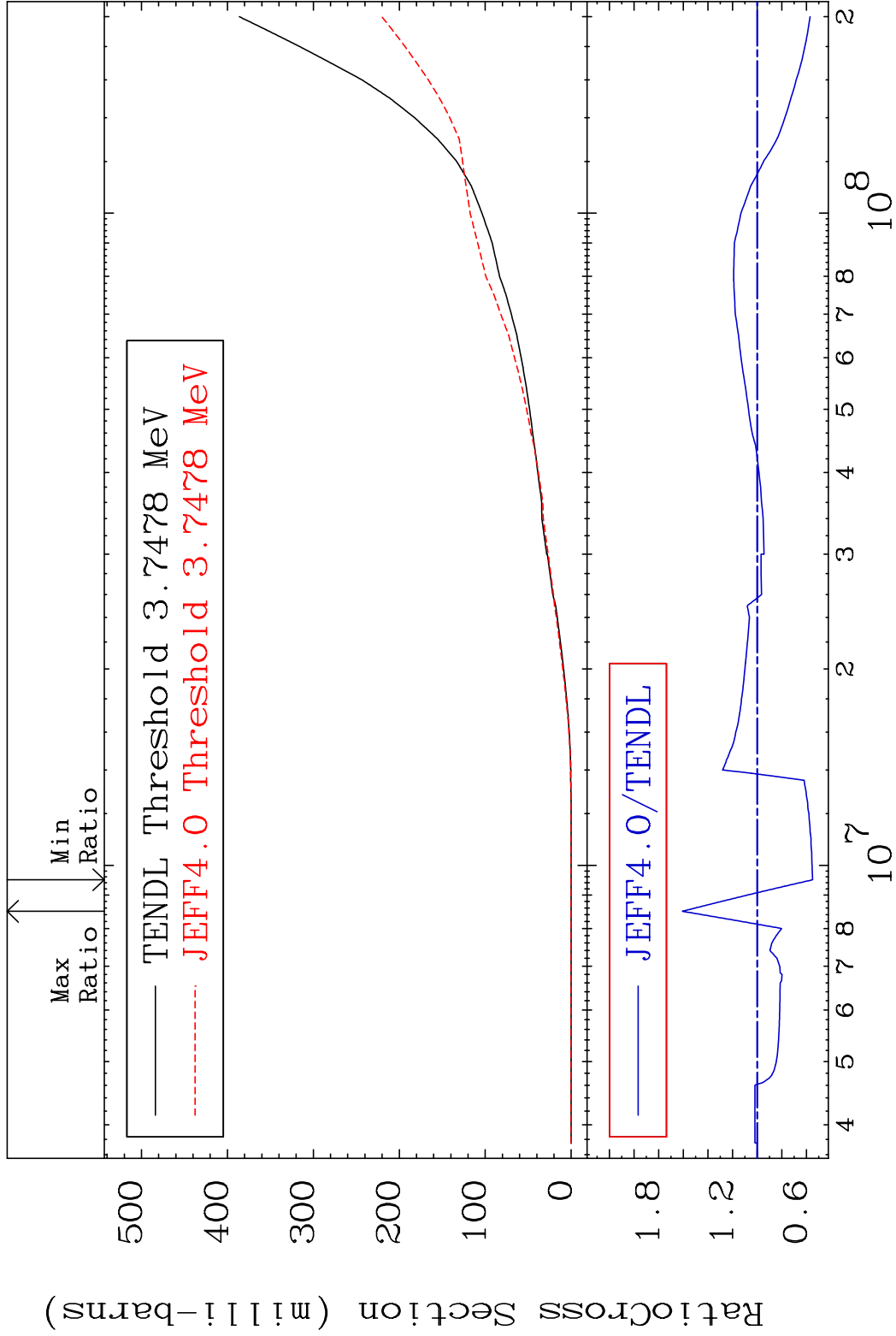
MAT 7034 Dpa disappearance (mt102 -120) 70-Yb-171
Cross Section -93.41 To 9999. %

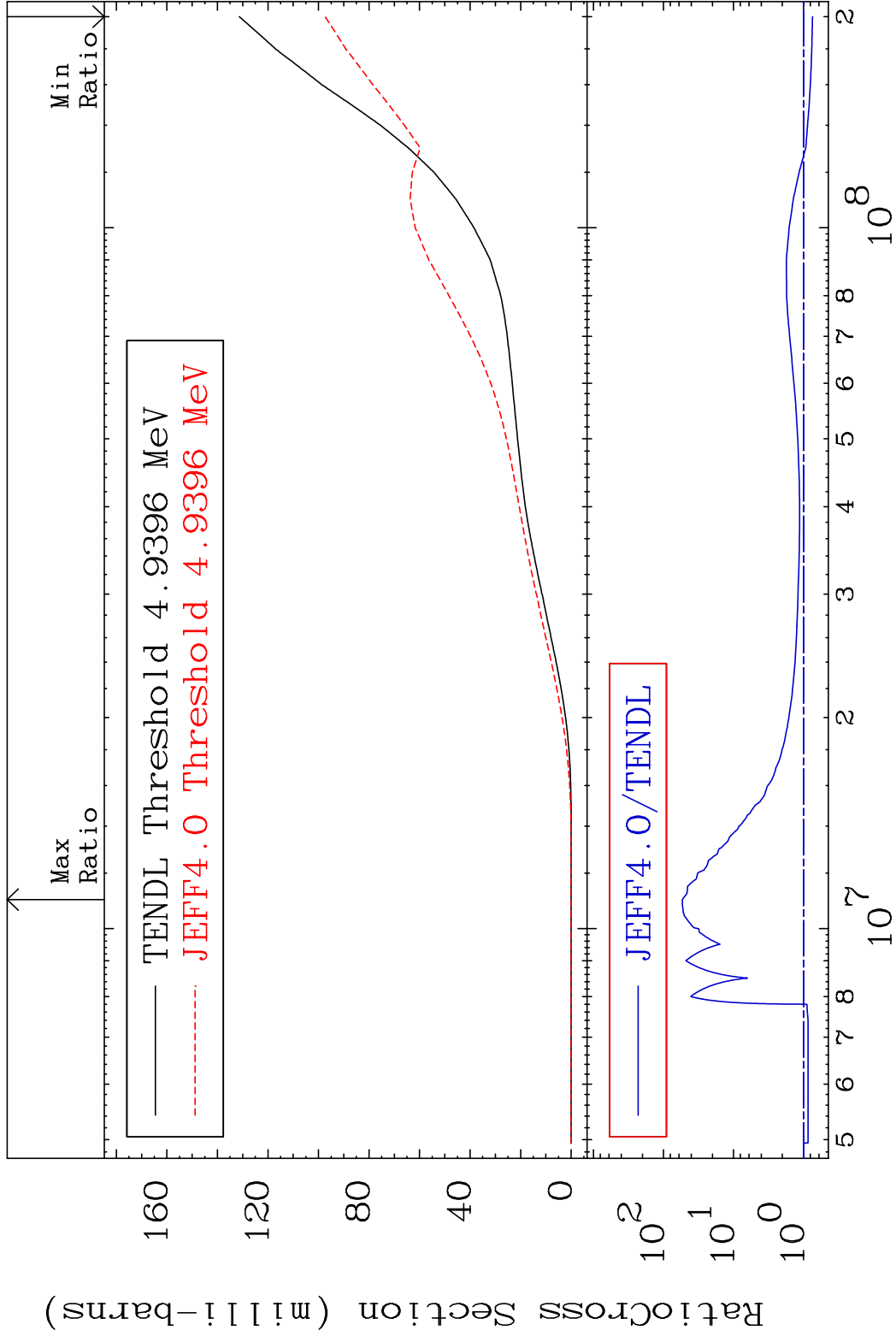


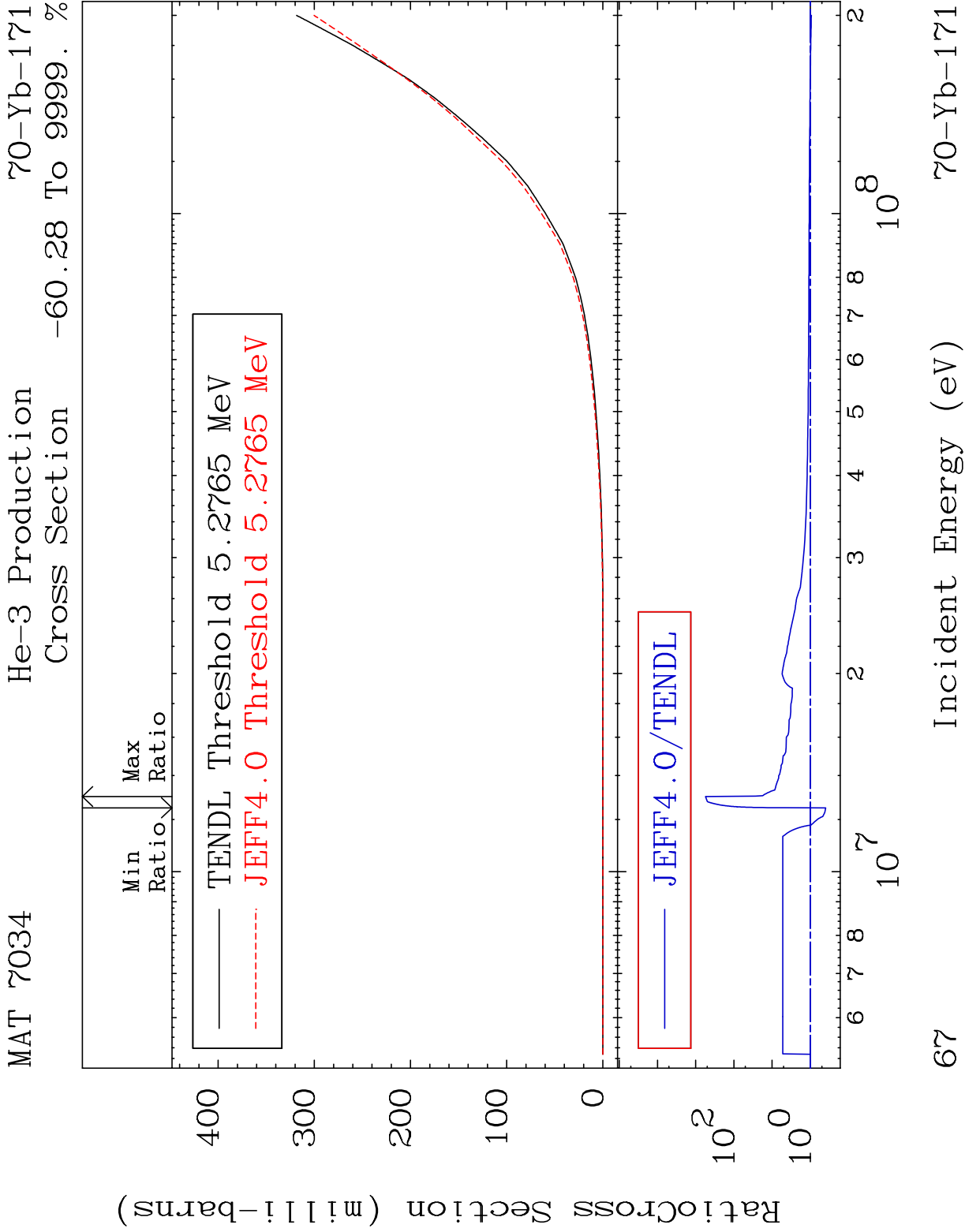
62 Incident Energy (eV) 70-Yb-171

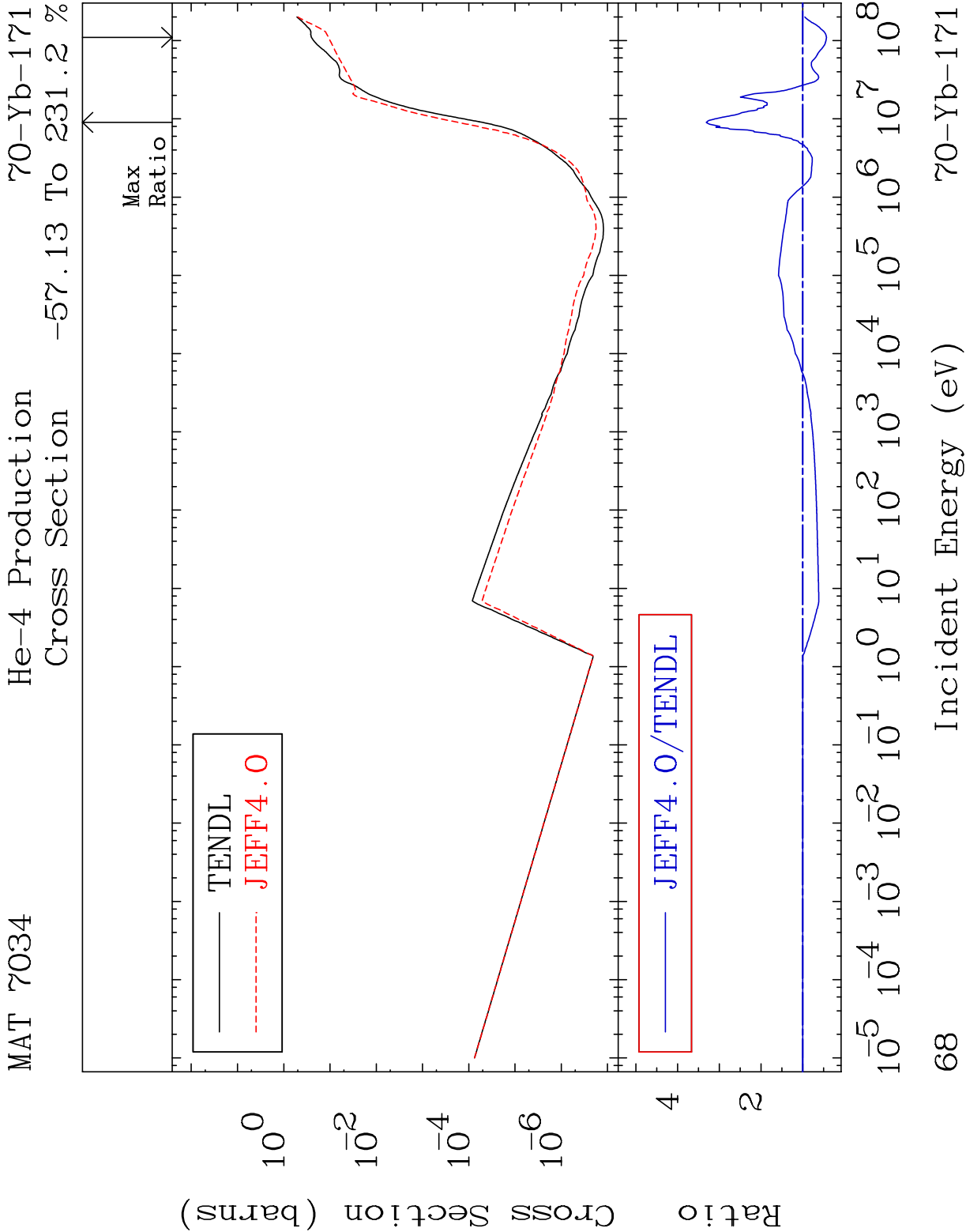




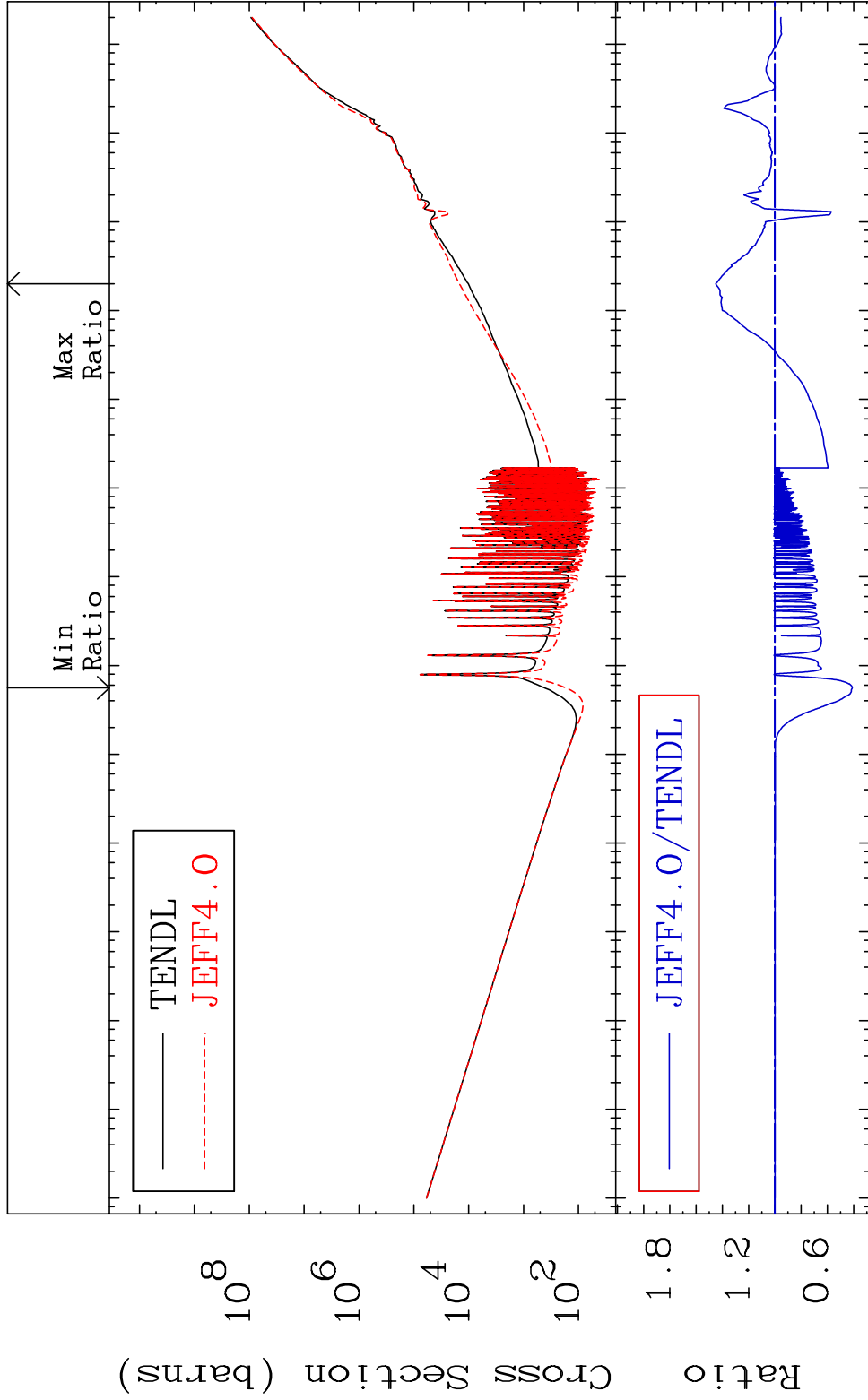


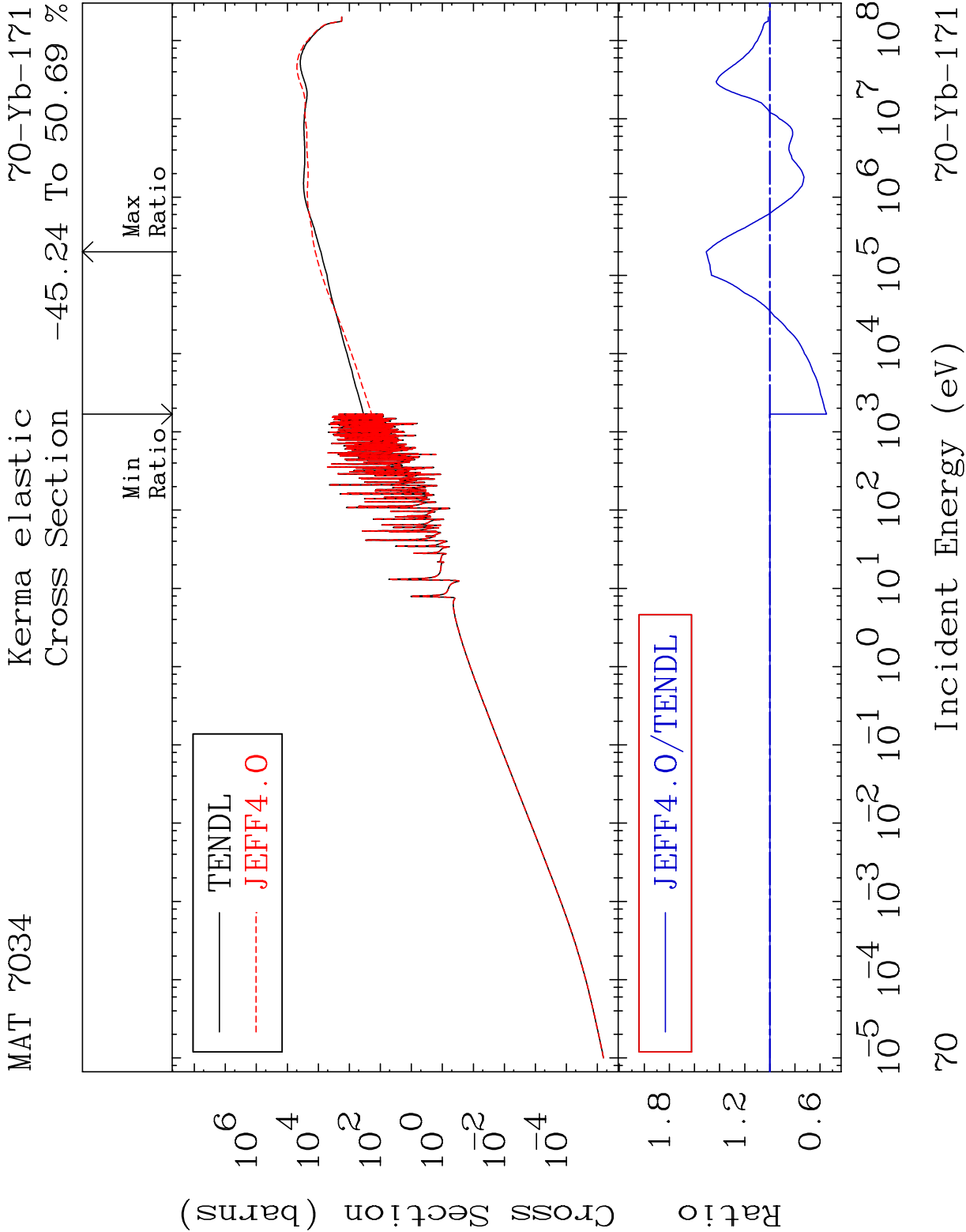




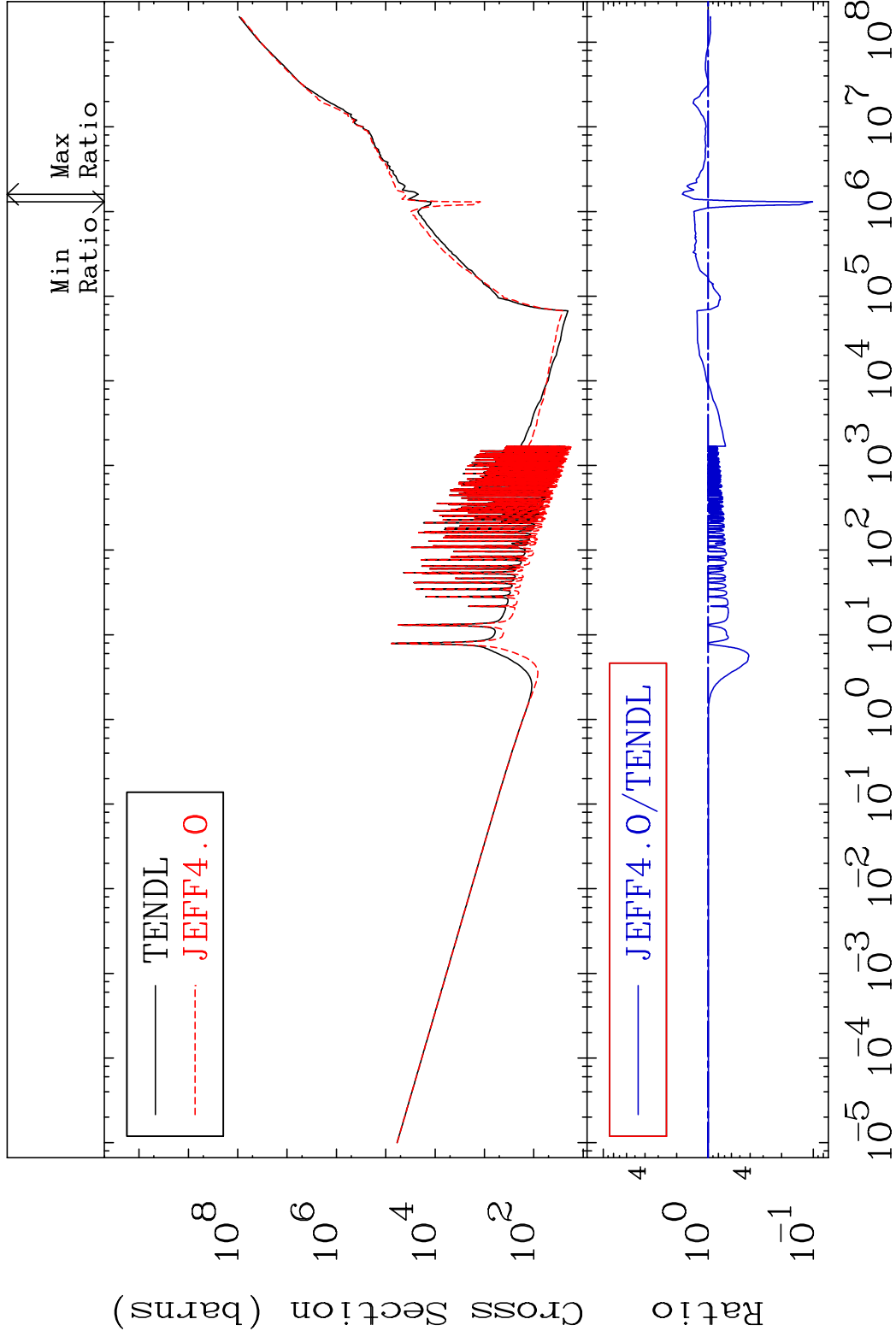


MAT 7034 Kerma total (eV-barns) 70-Yb-171
Cross Section -58.91 To 45.12 %

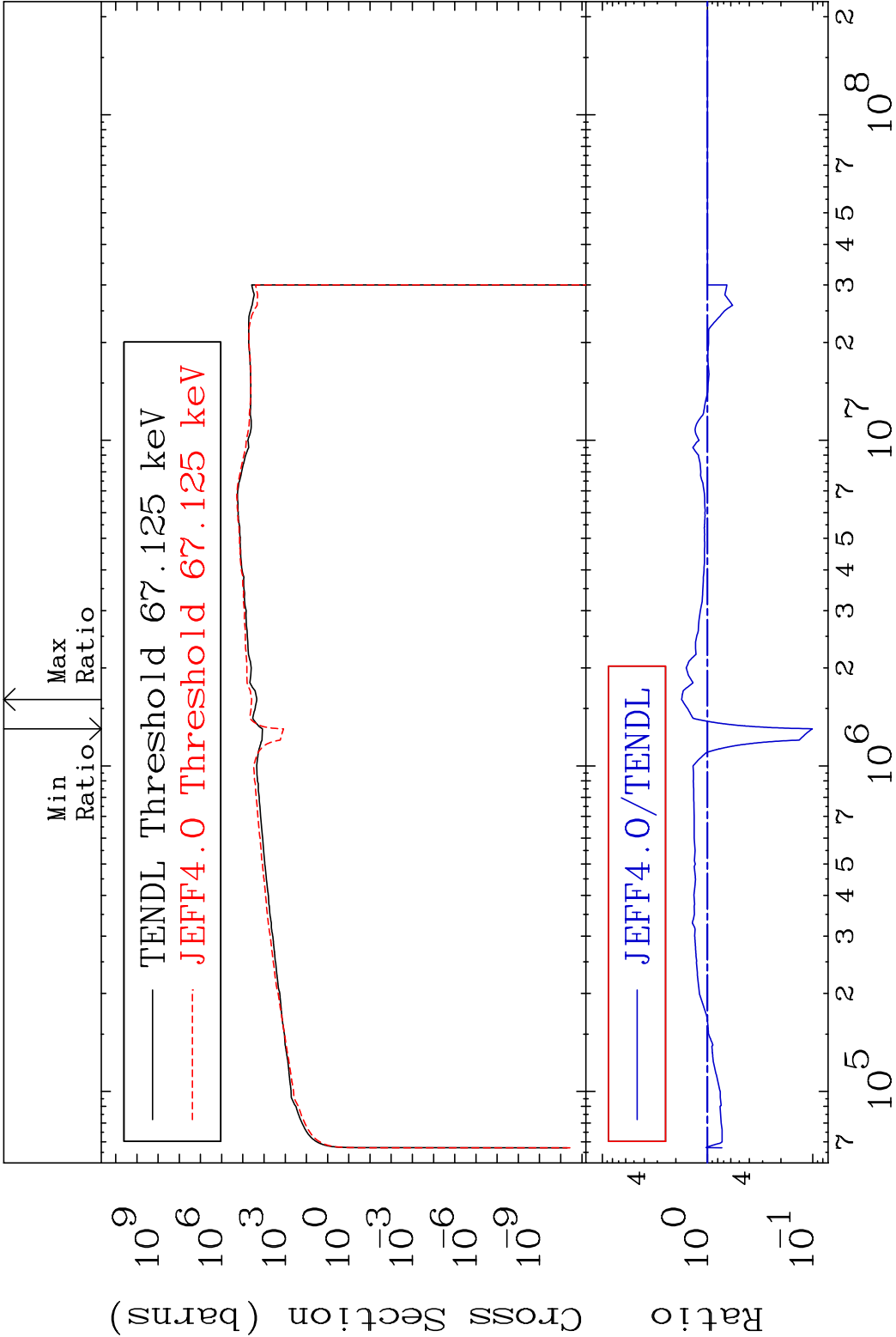




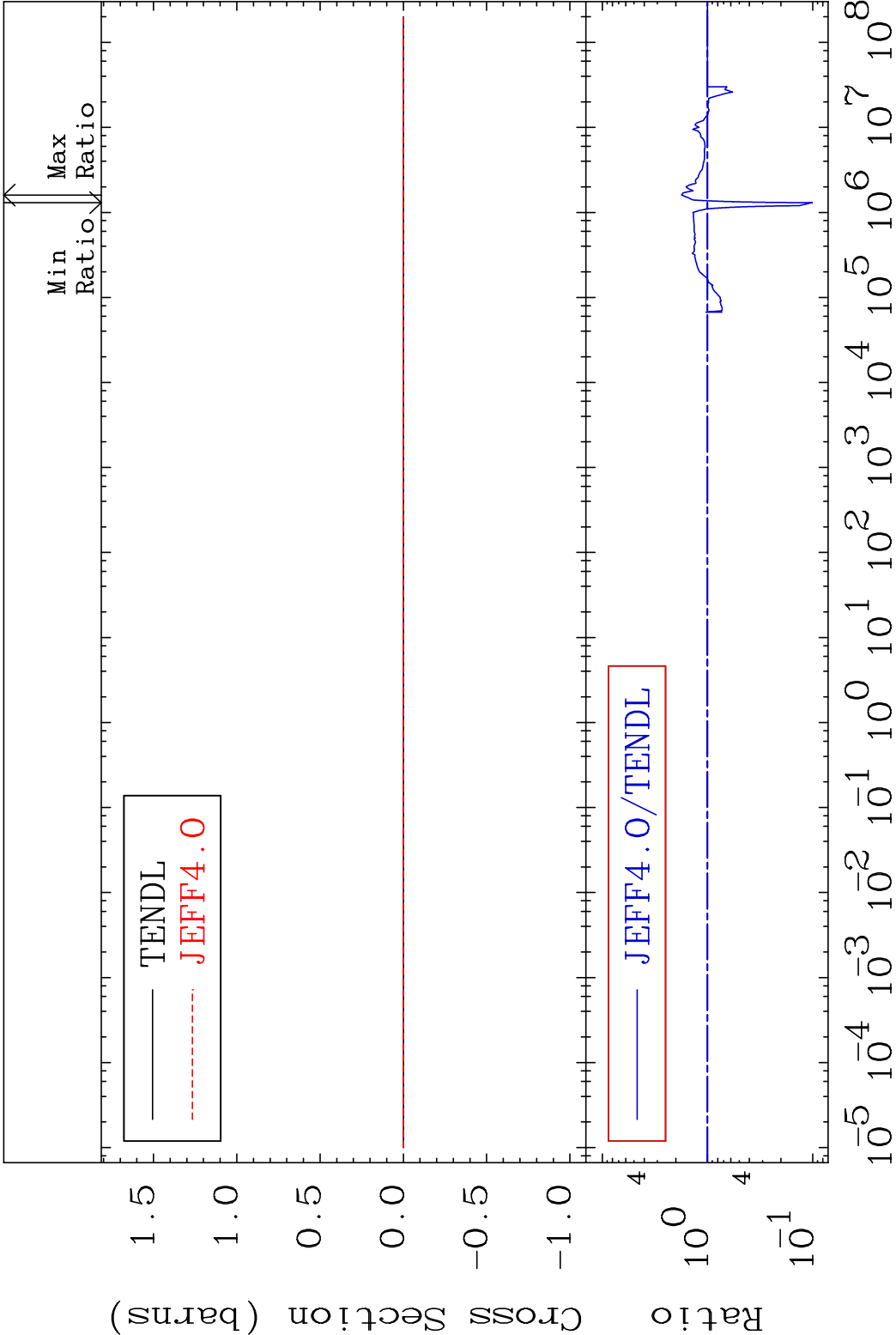
MAT 7034 Kerma non-elastic (all but mt2) 70-Yb-171
Cross Section -89.86 To 76.47 %



71 Incident Energy (eV) 70-Yb-171

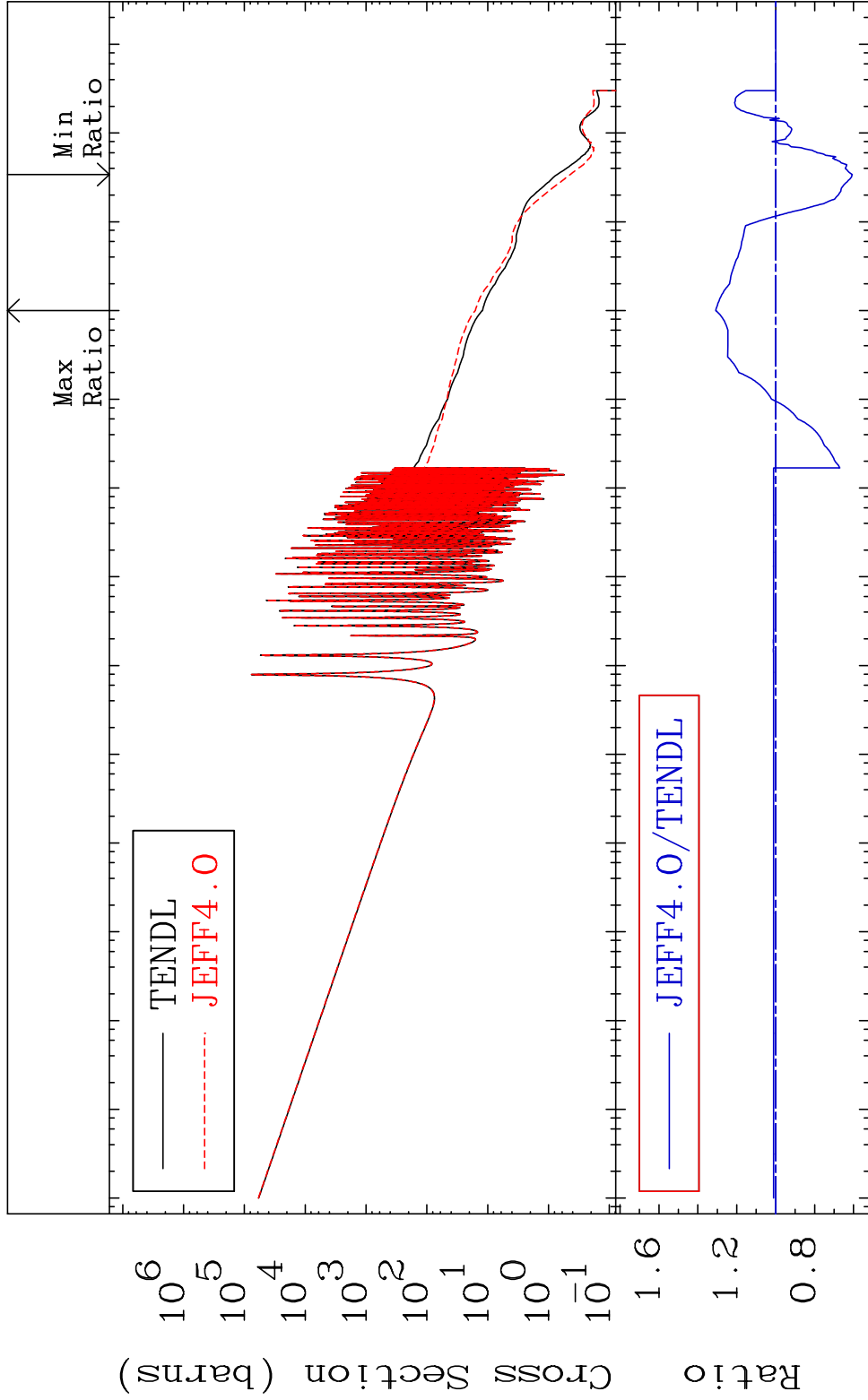


MAT 7034 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-171
Cross Section -89.90 To 76.50 %



73 Incident Energy (eV) 70-Yb-171

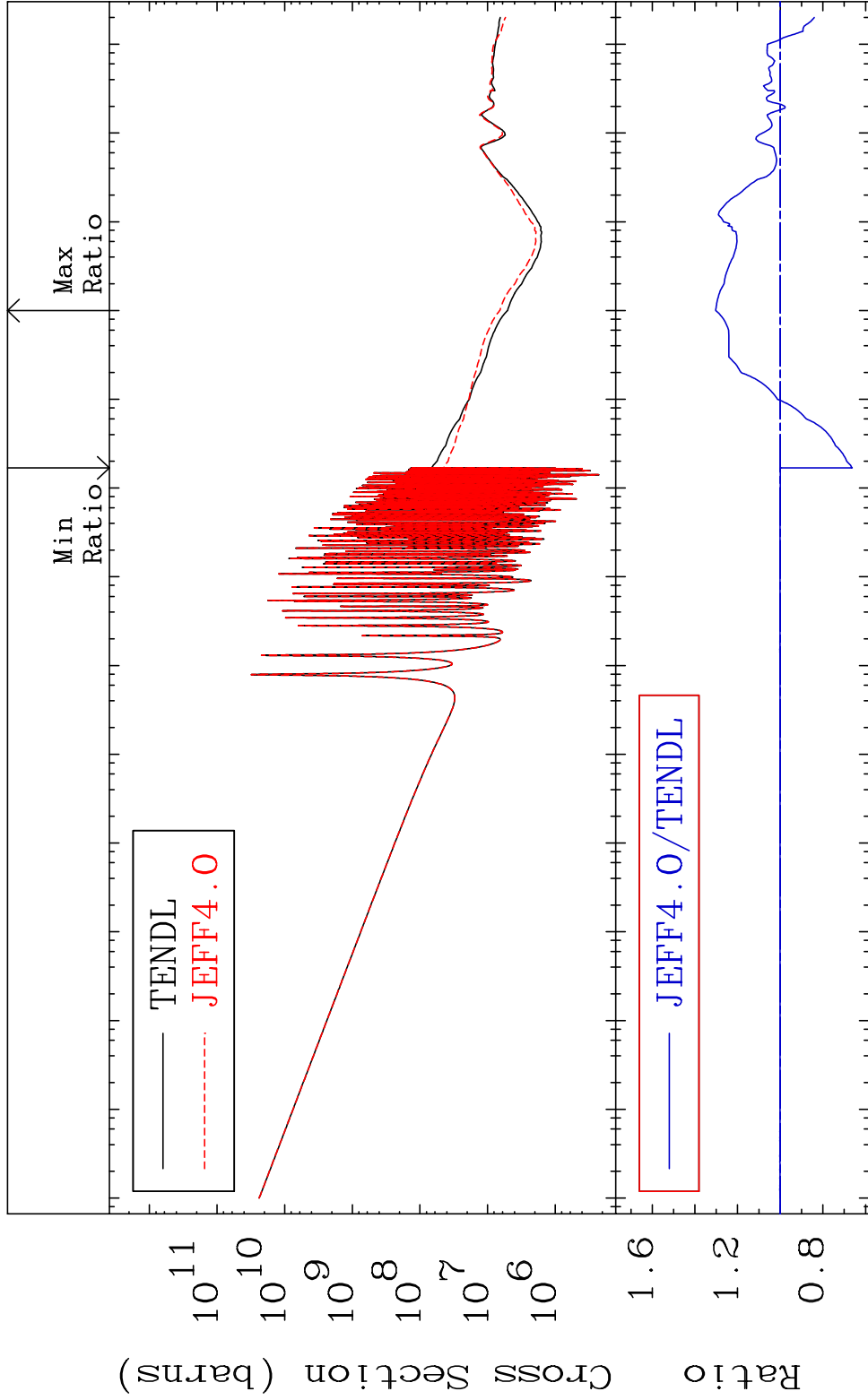
MAT 7034 Kerma capture (mt102) 70-Yb-171
Cross Section -39.33 To 30.85 %



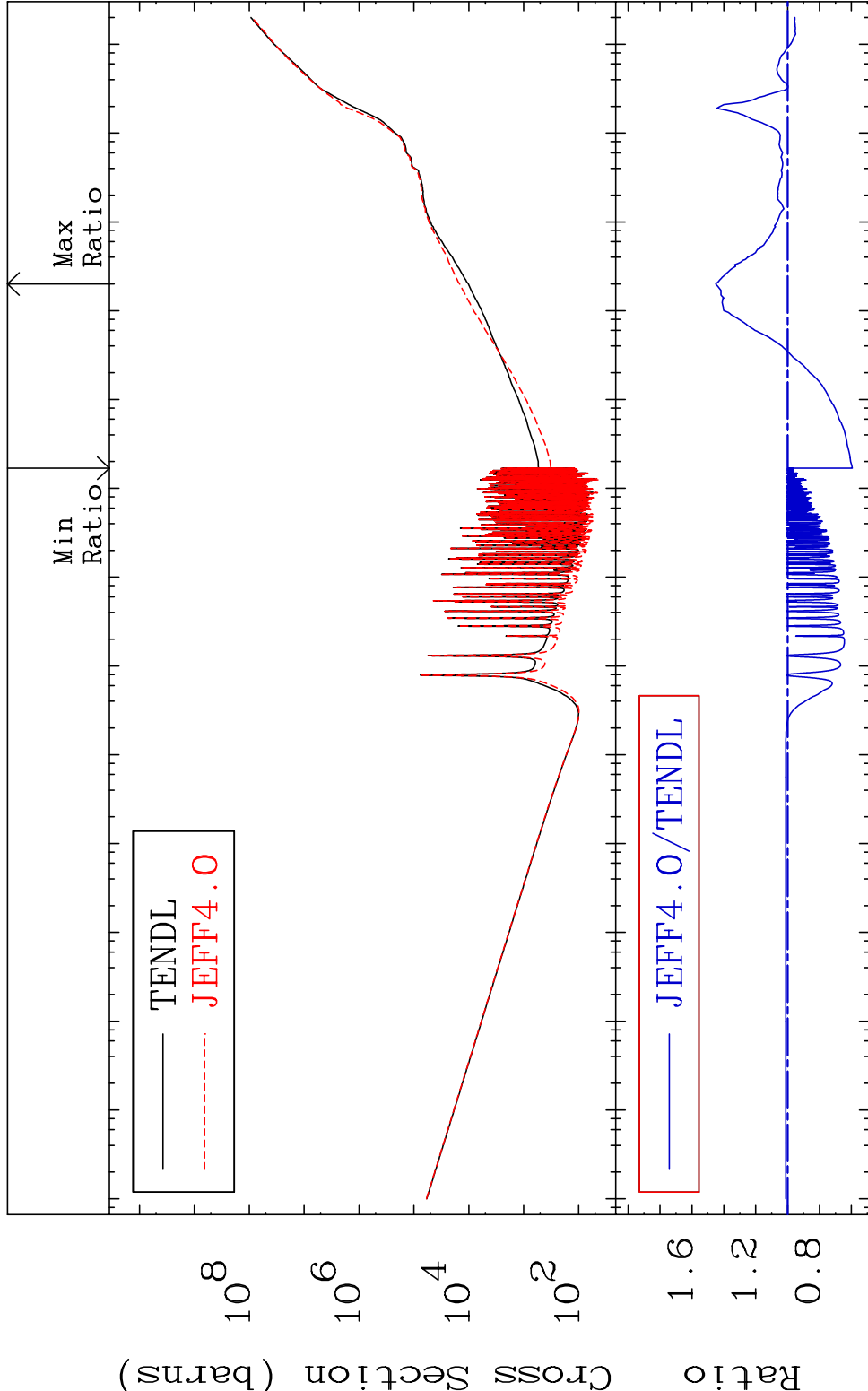
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

74 Incident Energy (eV) 70-Yb-171

MAT 7034 Total photon (eV-barns) 70-Yb-171
Cross Section -33.74 To 30.27 %

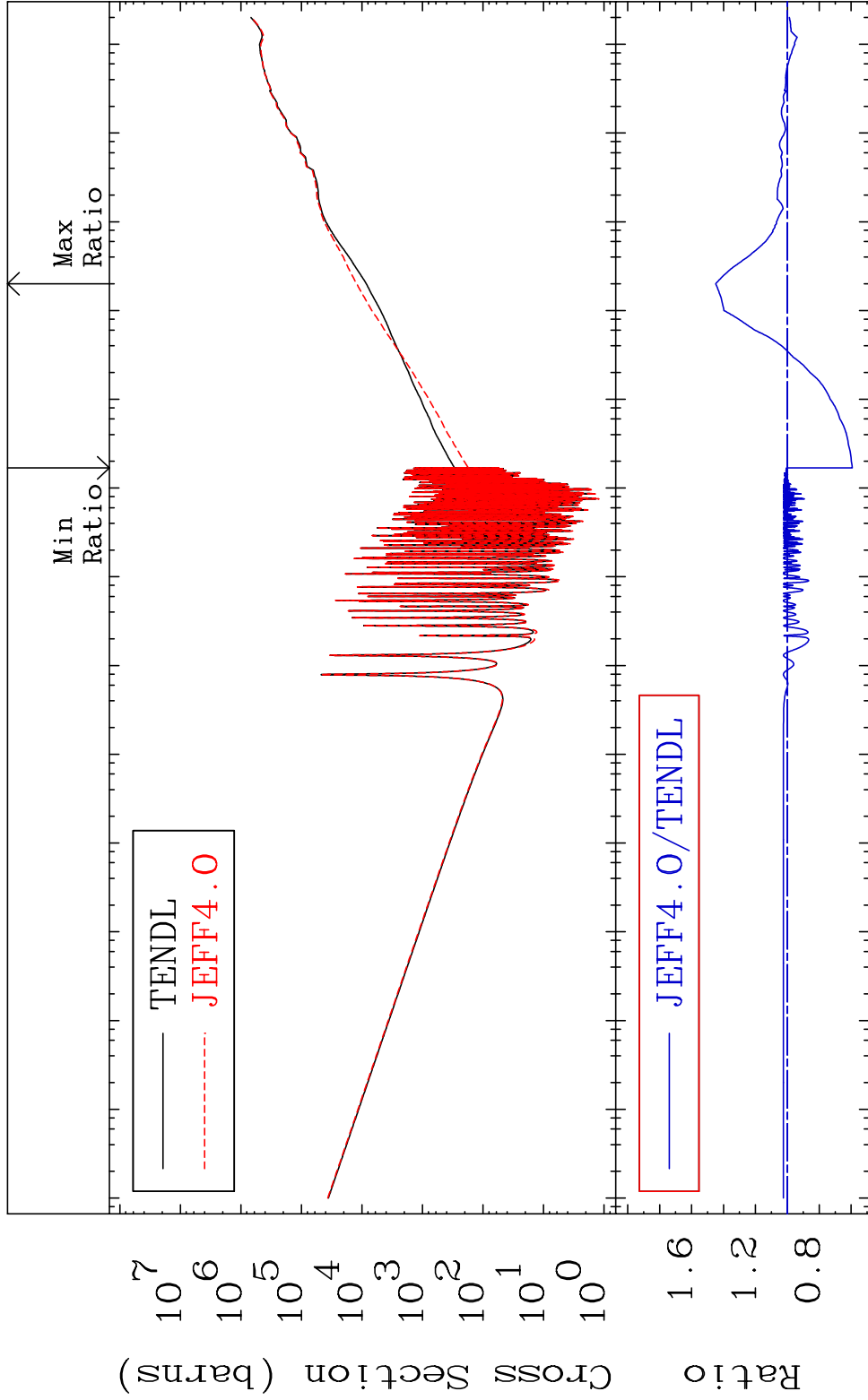


MAT 7034 Total kinematic kerma (high limit) 70-Yb-171
Cross Section -40.49 To 45.11 %



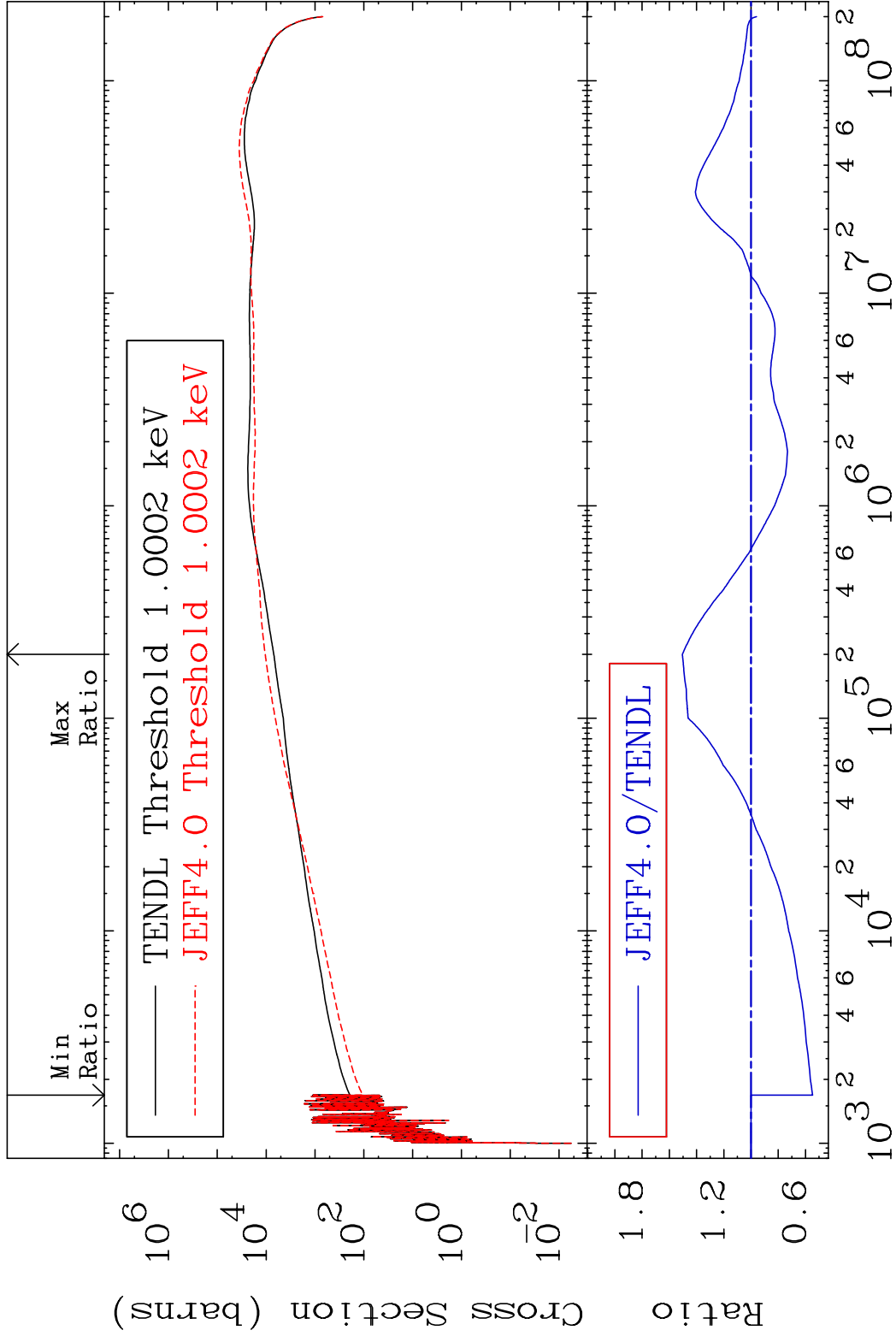
76 Incident Energy (eV) 70-Yb-171

MAT 7034 Dpa total (eV-barns) 70-Yb-171
Cross Section -40.66 To 44.92 %

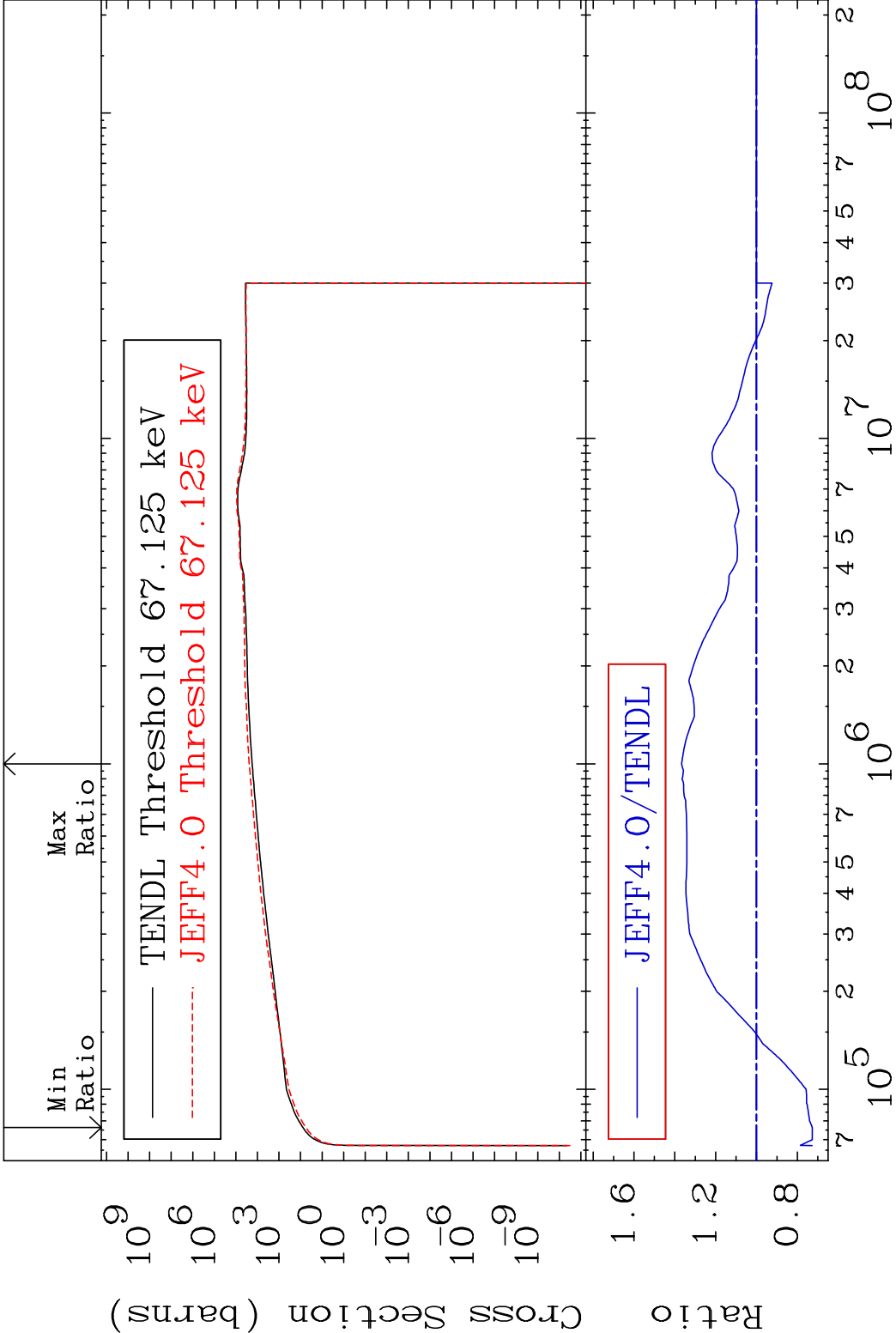


77 Incident Energy (eV) 70-Yb-171

MAT 7034 Dpa elastic (mt2) 70-Yb-171
Cross Section -45.23 To 50.45 %

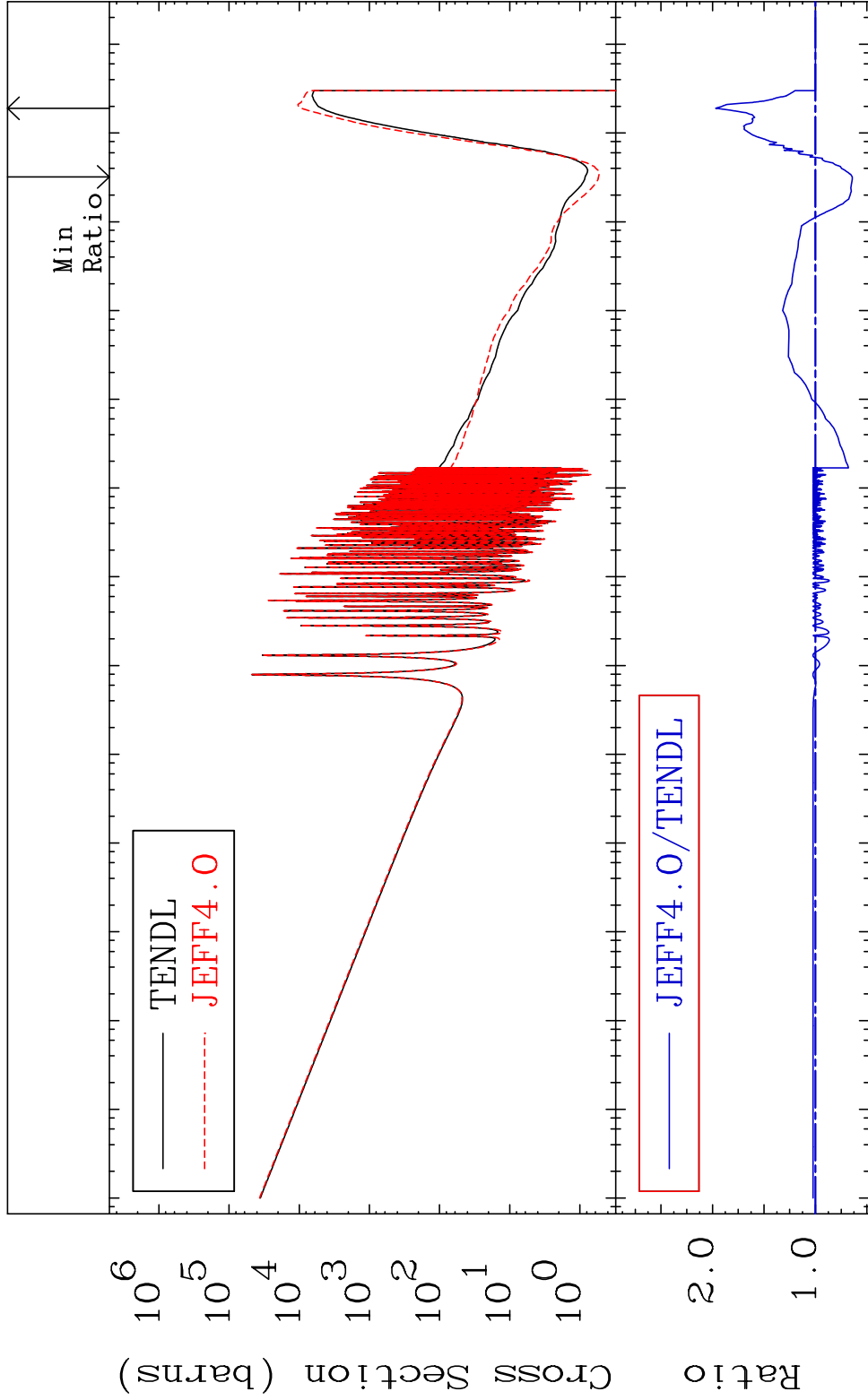


MAT 7034 Dpa inelastic (mt51-91) 70-Yb-171
Cross Section -27.29 To 36.70 %



79 Incident Energy (eV) 70-Yb-171

MAT 7034 Dpa disappearance (mt102 -120) 70-Yb-171
Cross Section -35.72 To 96.90 %



80 Incident Energy (eV) 70-Yb-171

