

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way

Livermore, CA 94550

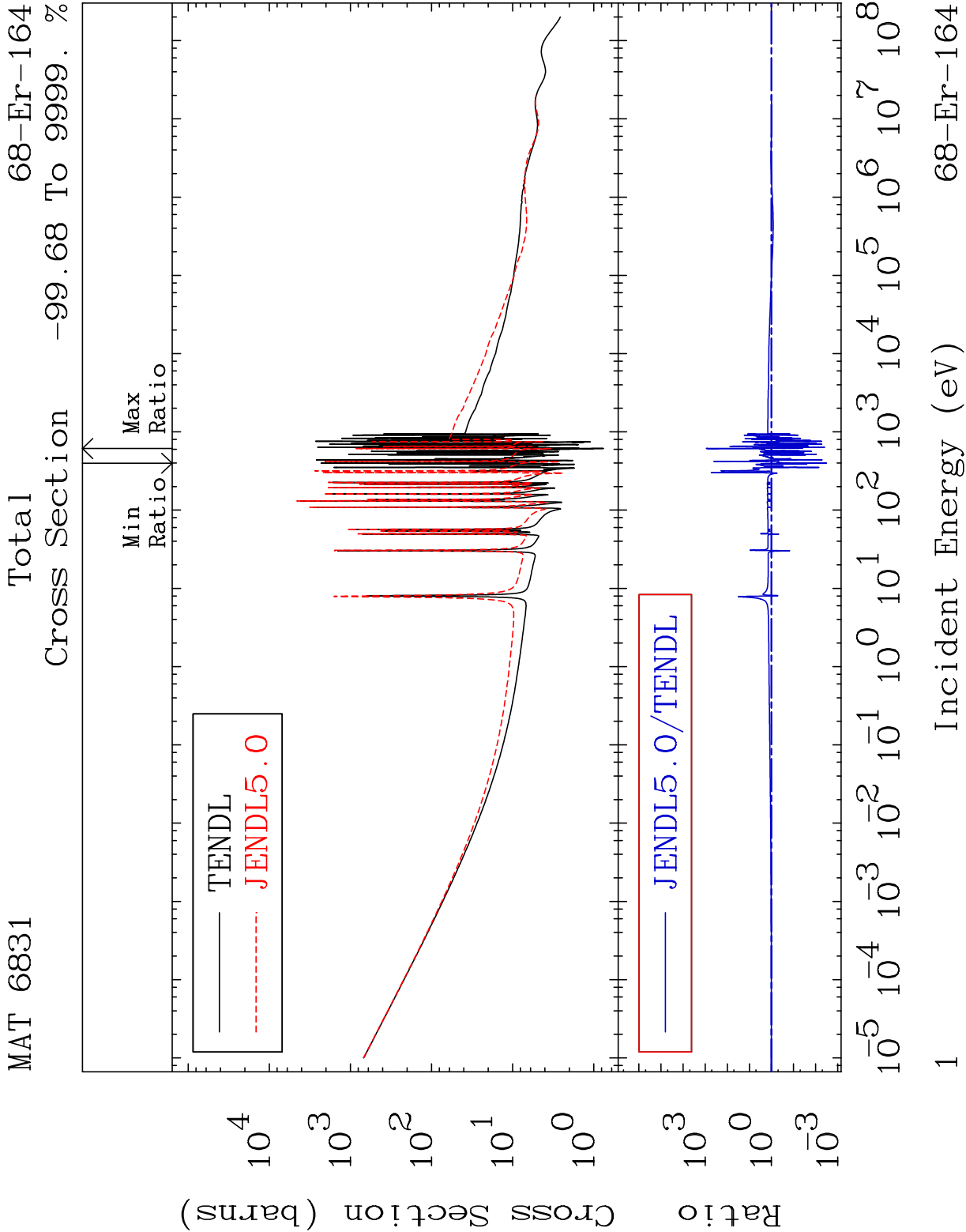
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net

Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

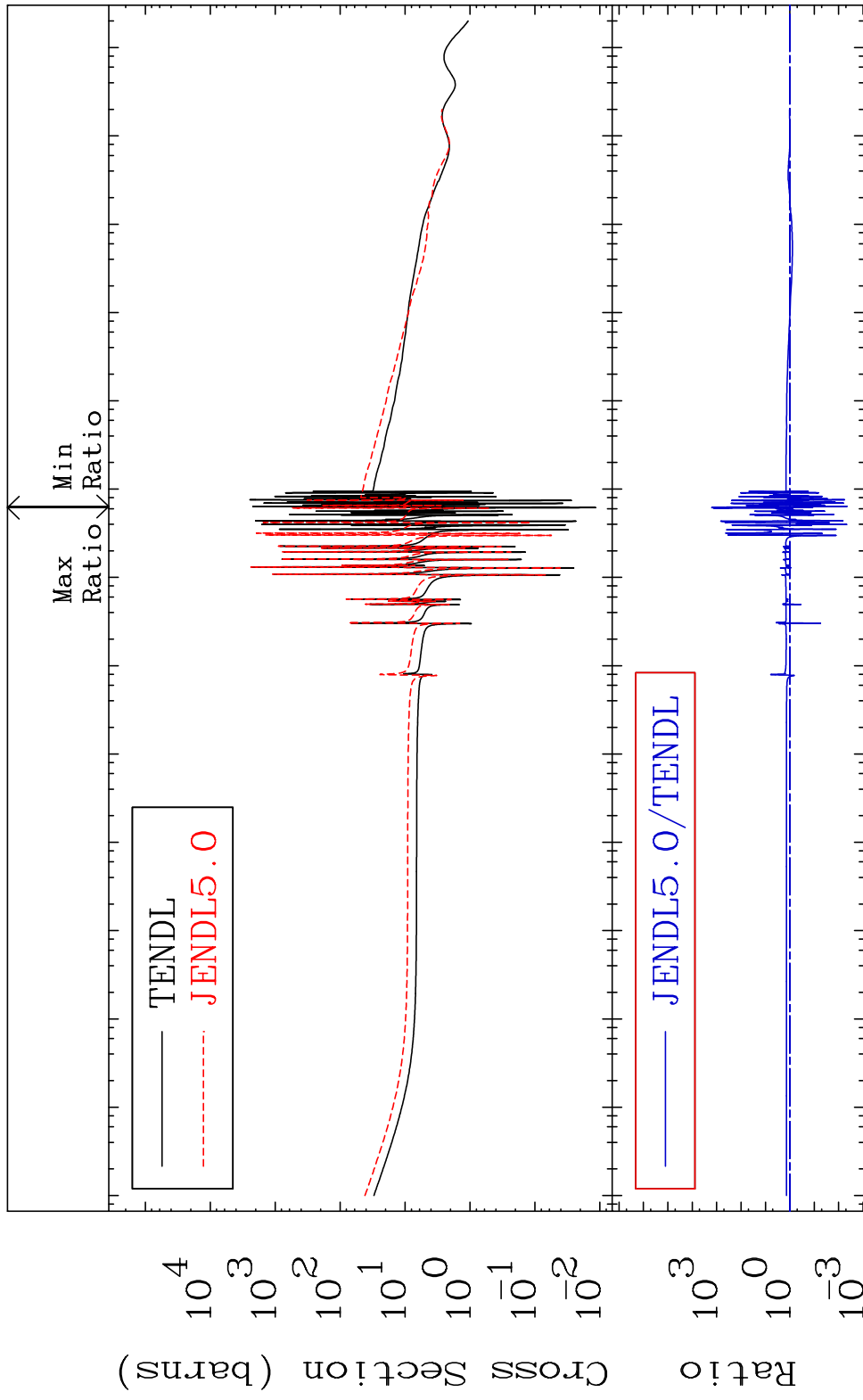


MAT 6831

Elastic

68-Er-164

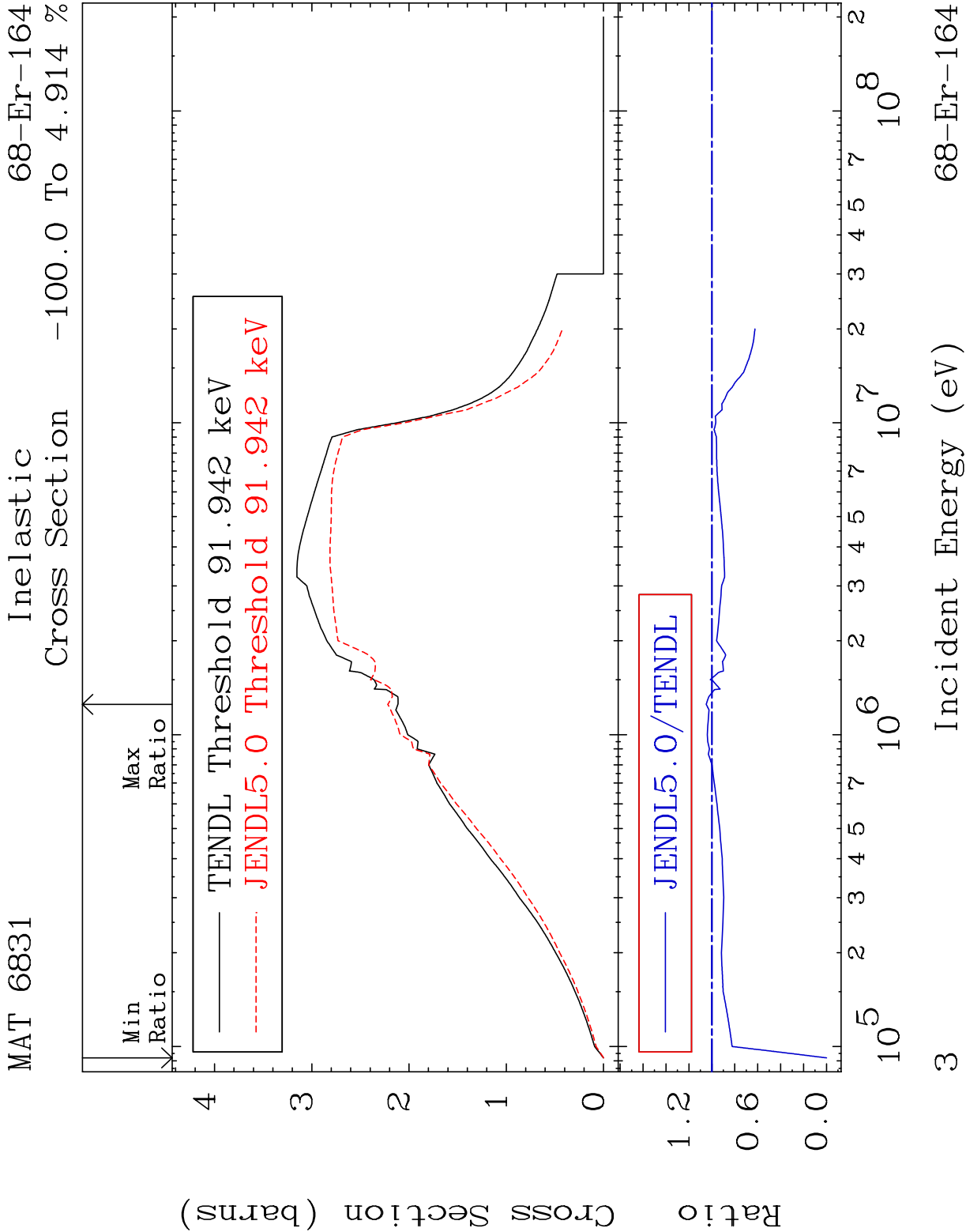
Cross Section -99.56 To 9999. %

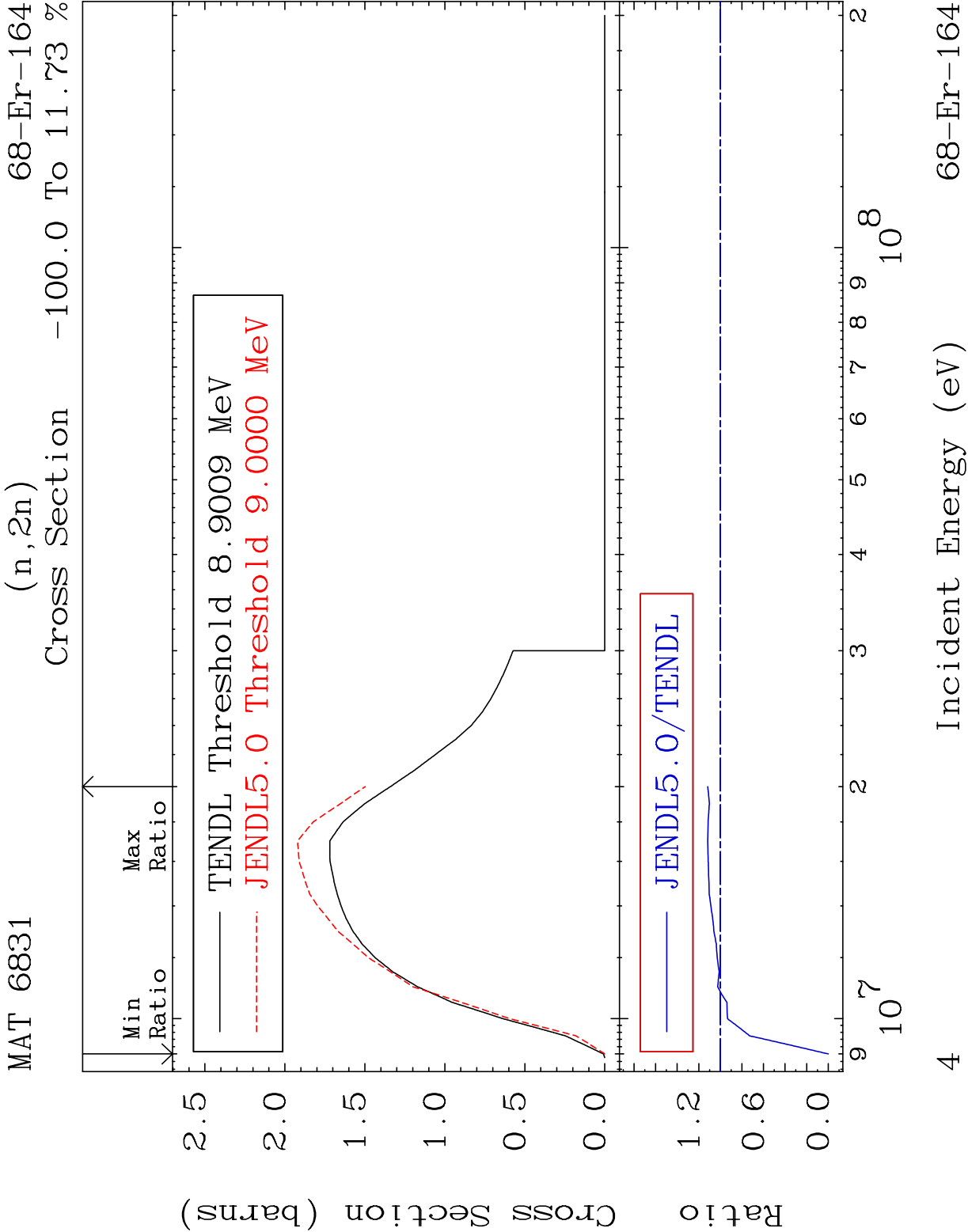


2

Incident Energy (eV)

68-Er-164



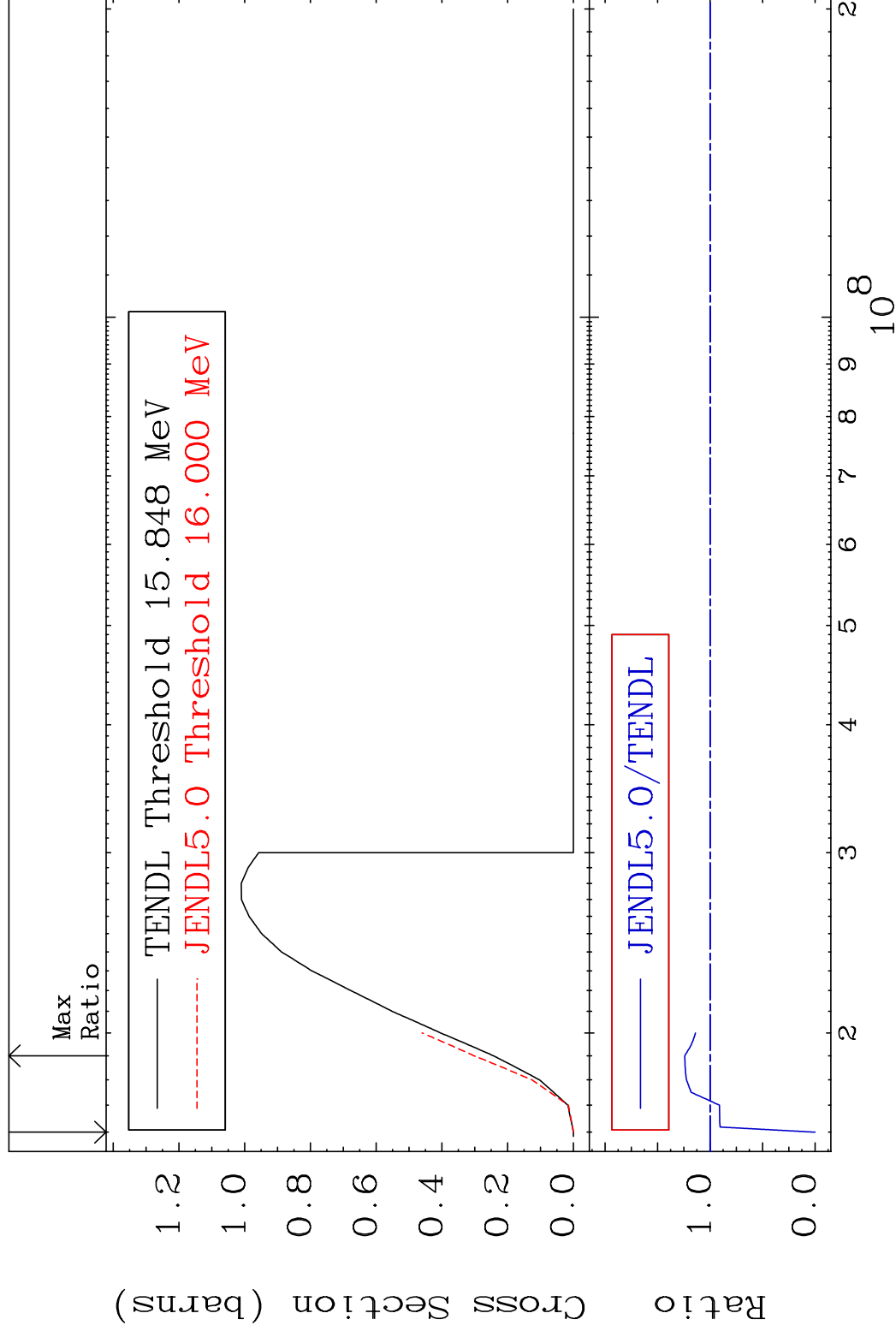


MAT 6831

$$(n, 3n)$$

68-Er-164

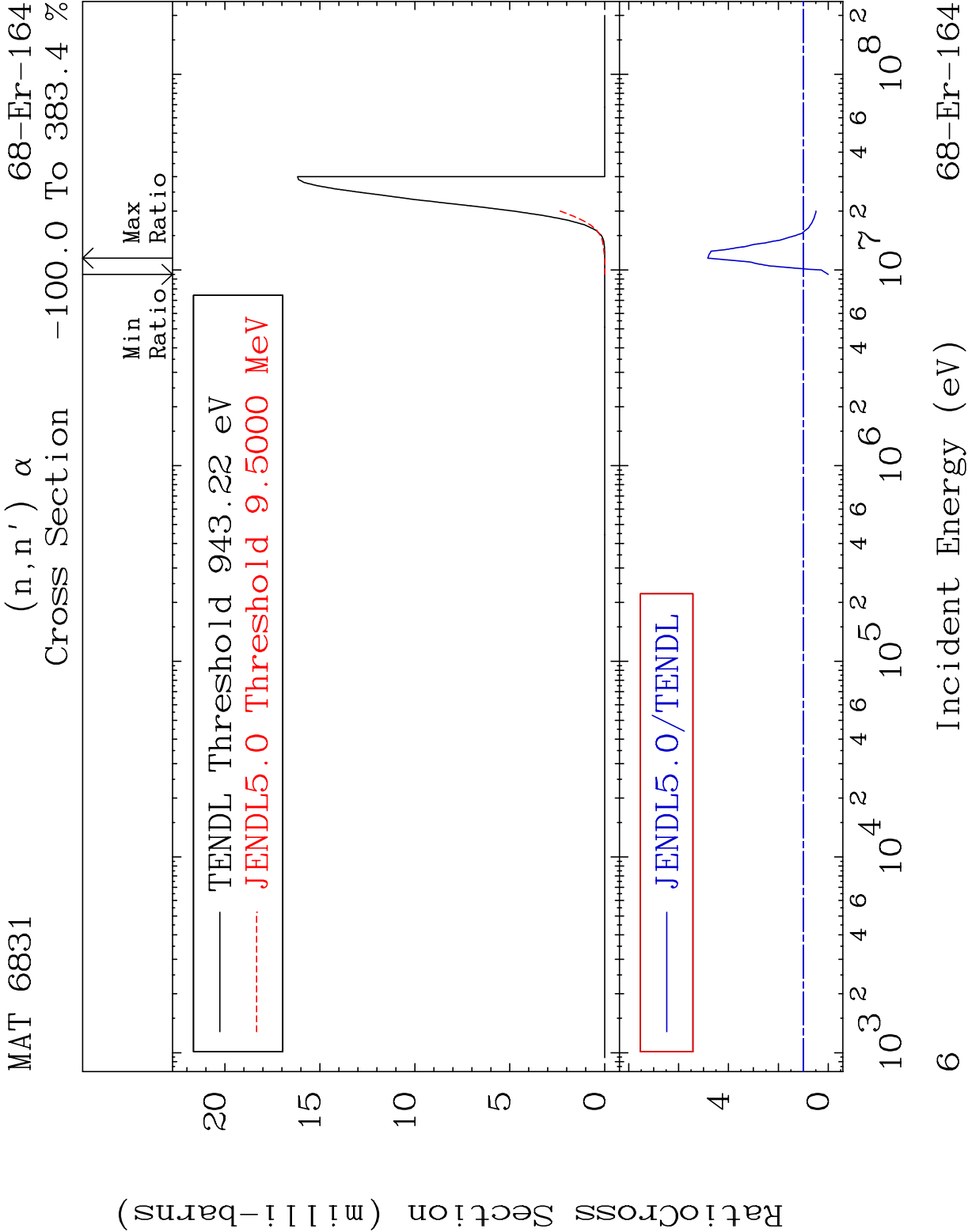
Cross Section

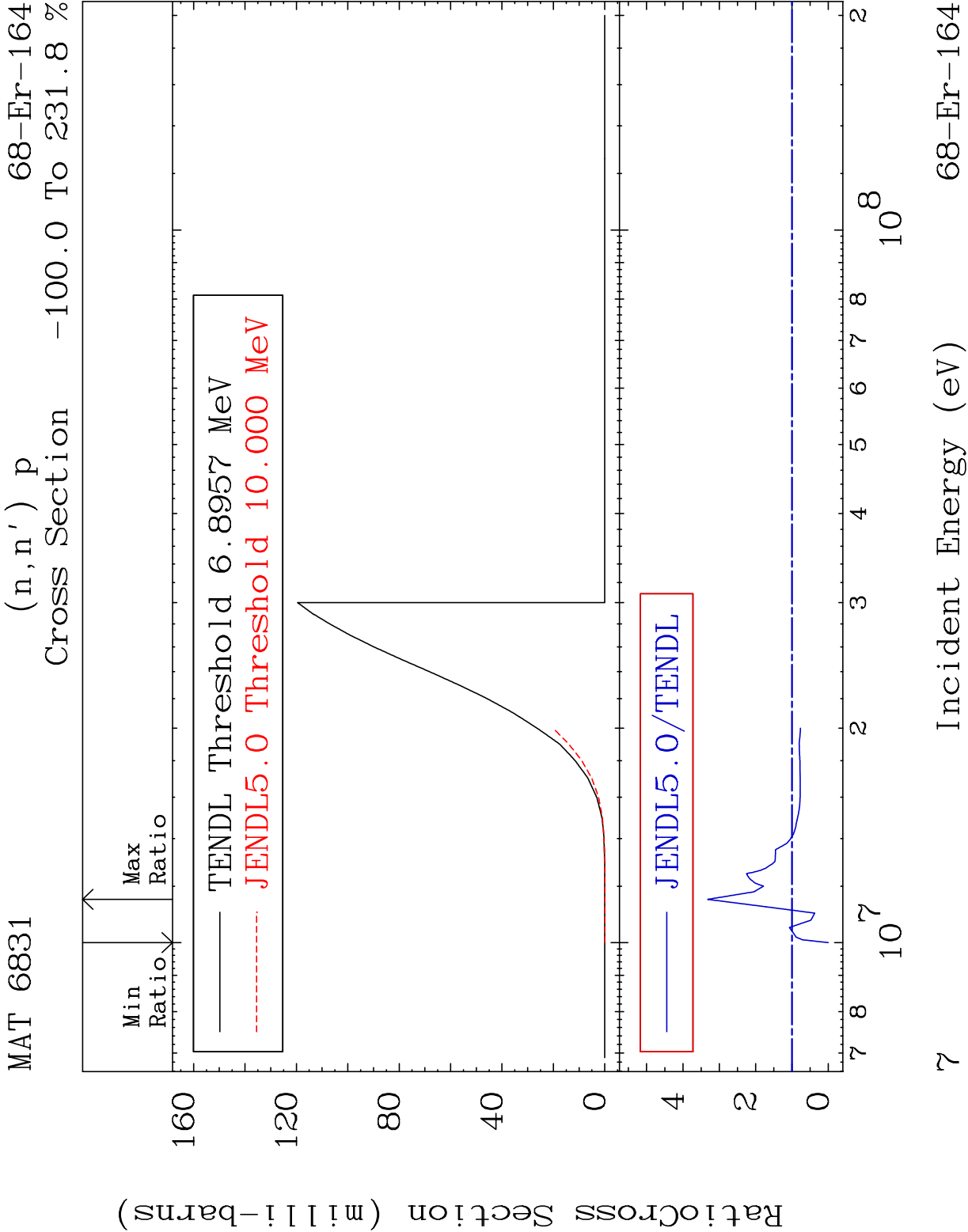


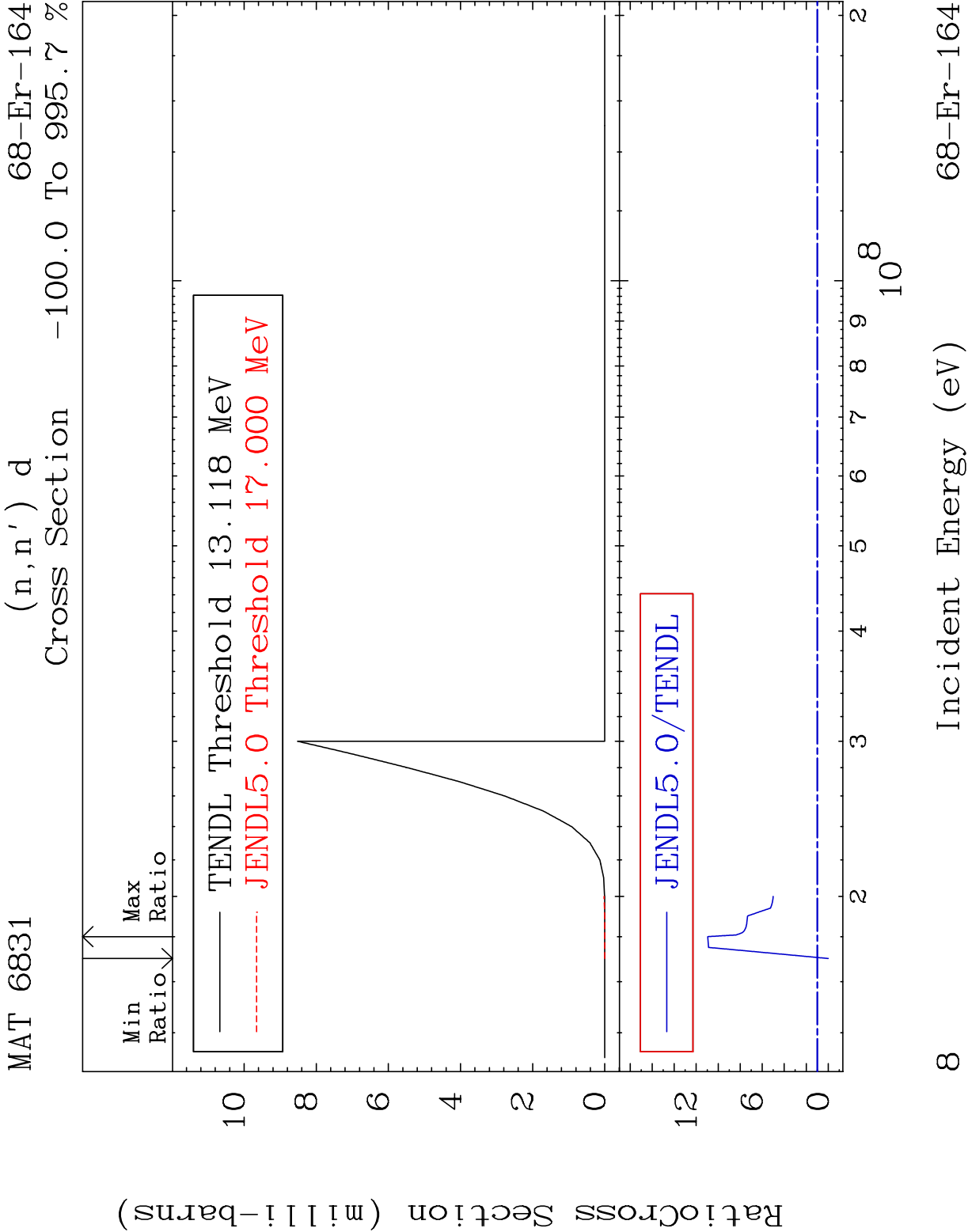
5

Incident Energy (eV)

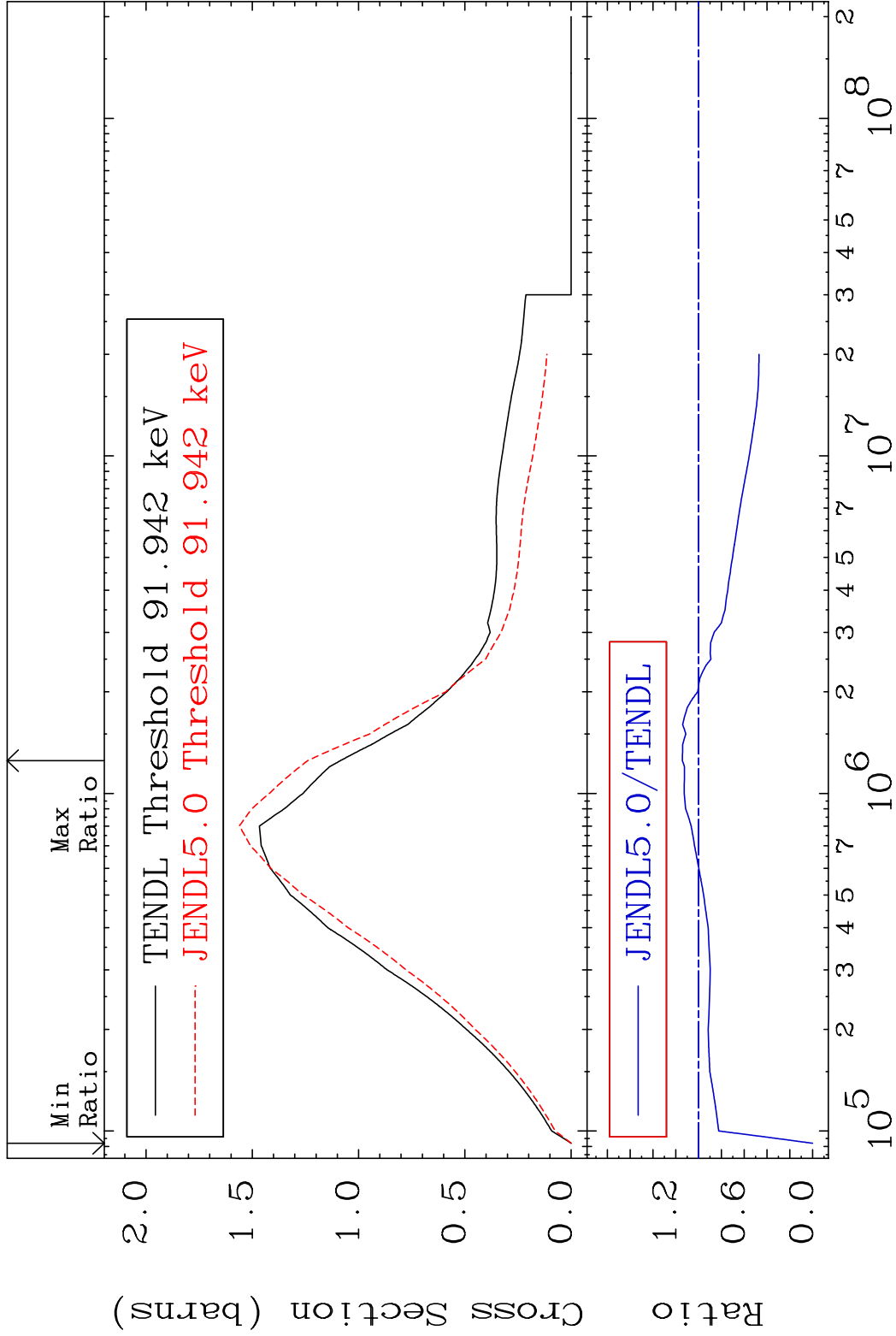
 ${}^{68}\text{Er}-164$

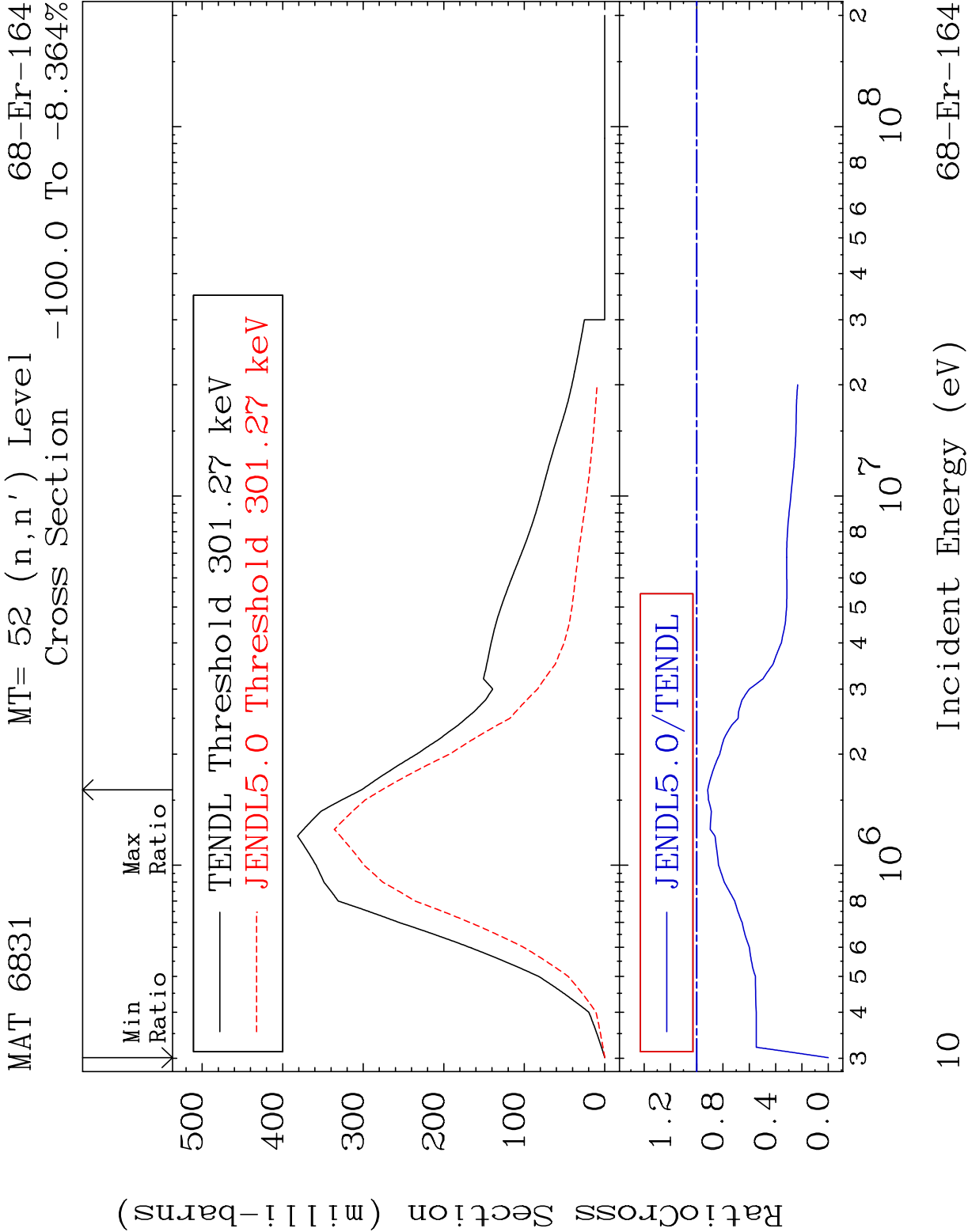




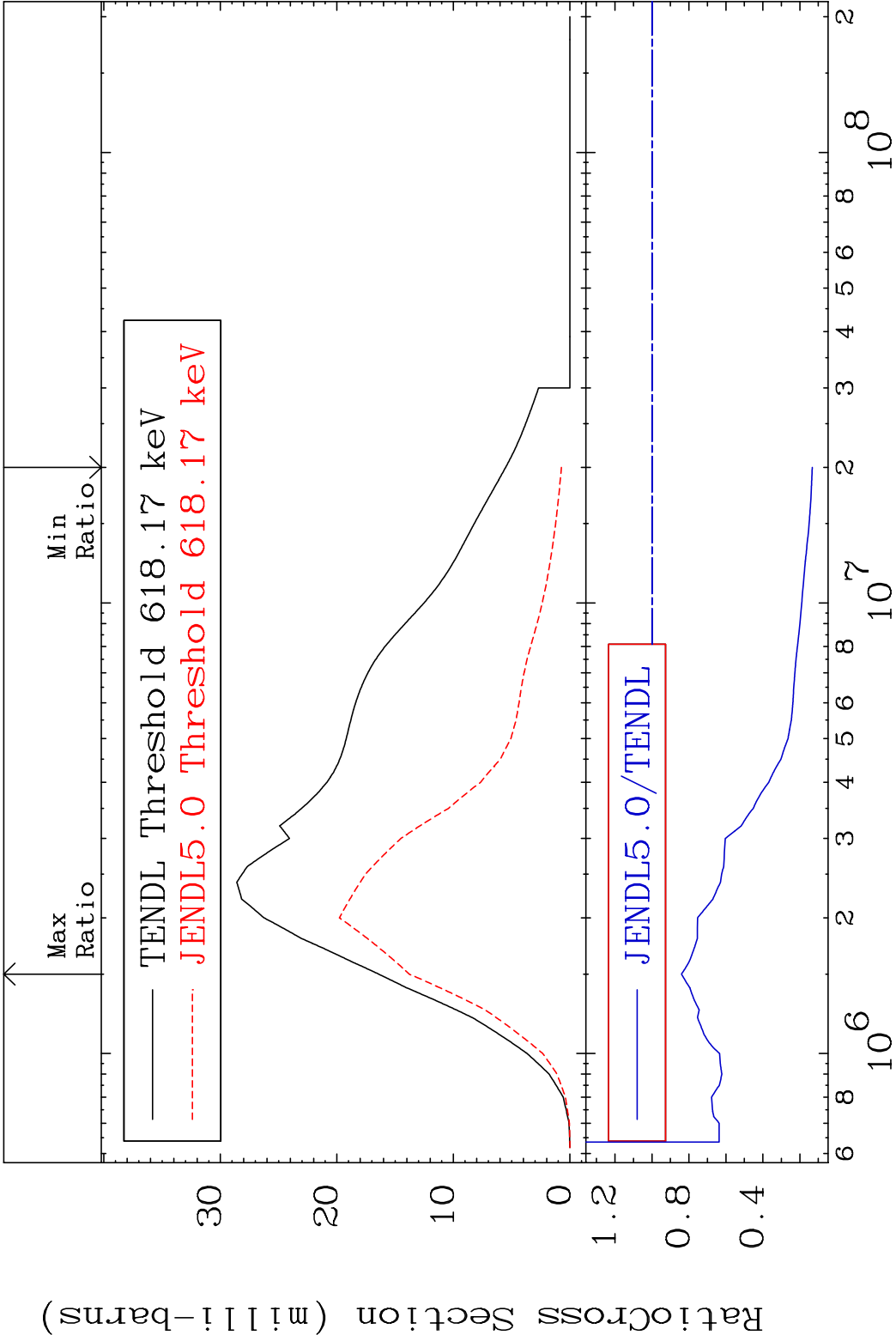


MAT 6831 MT= 51 (n,n') Level 68-Er-164
Cross Section -100.0 To 14.20 %



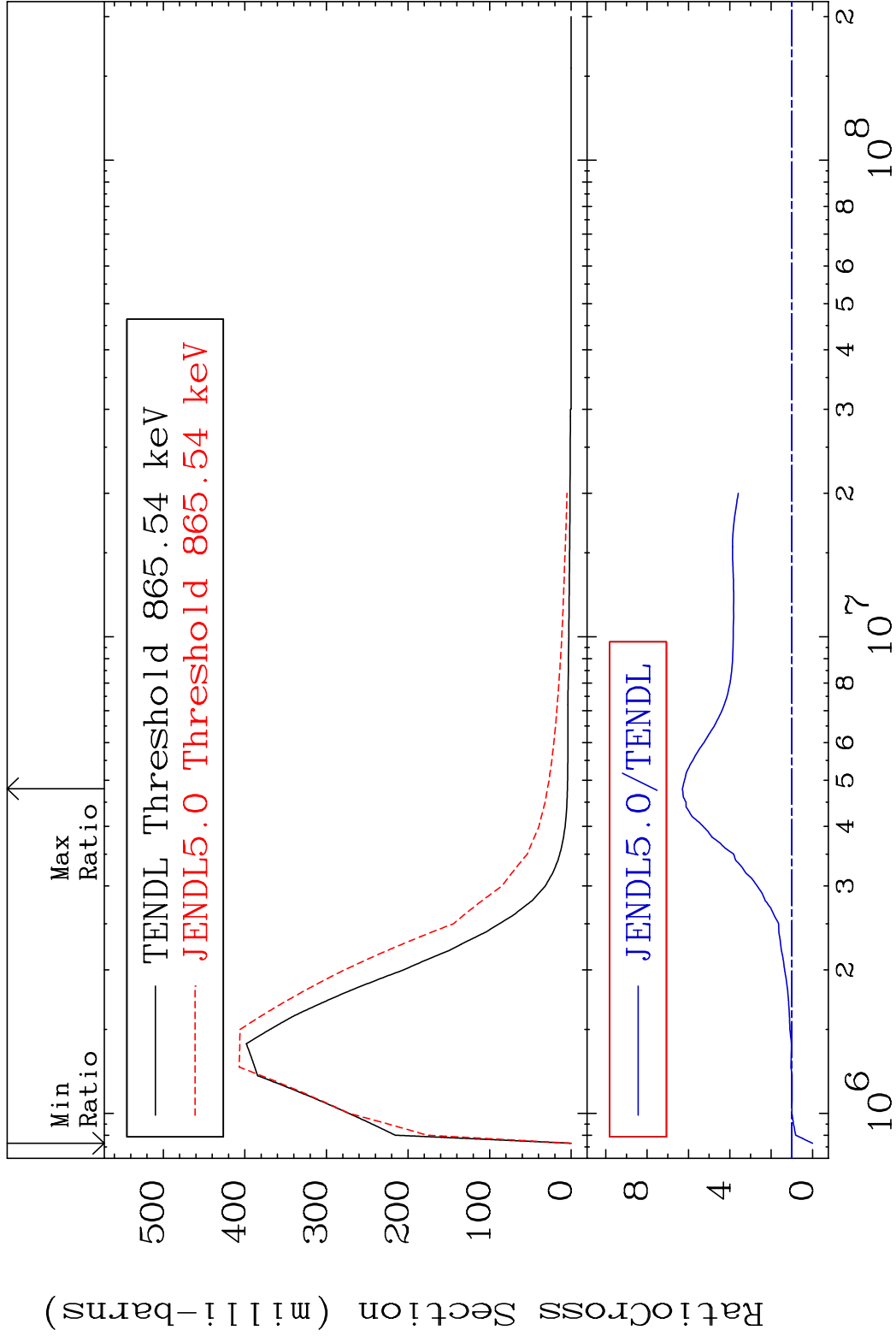


MAT 6831 MT= 53 (n,n') Level 68-Er-164
Cross Section -86.71 To -16.00%

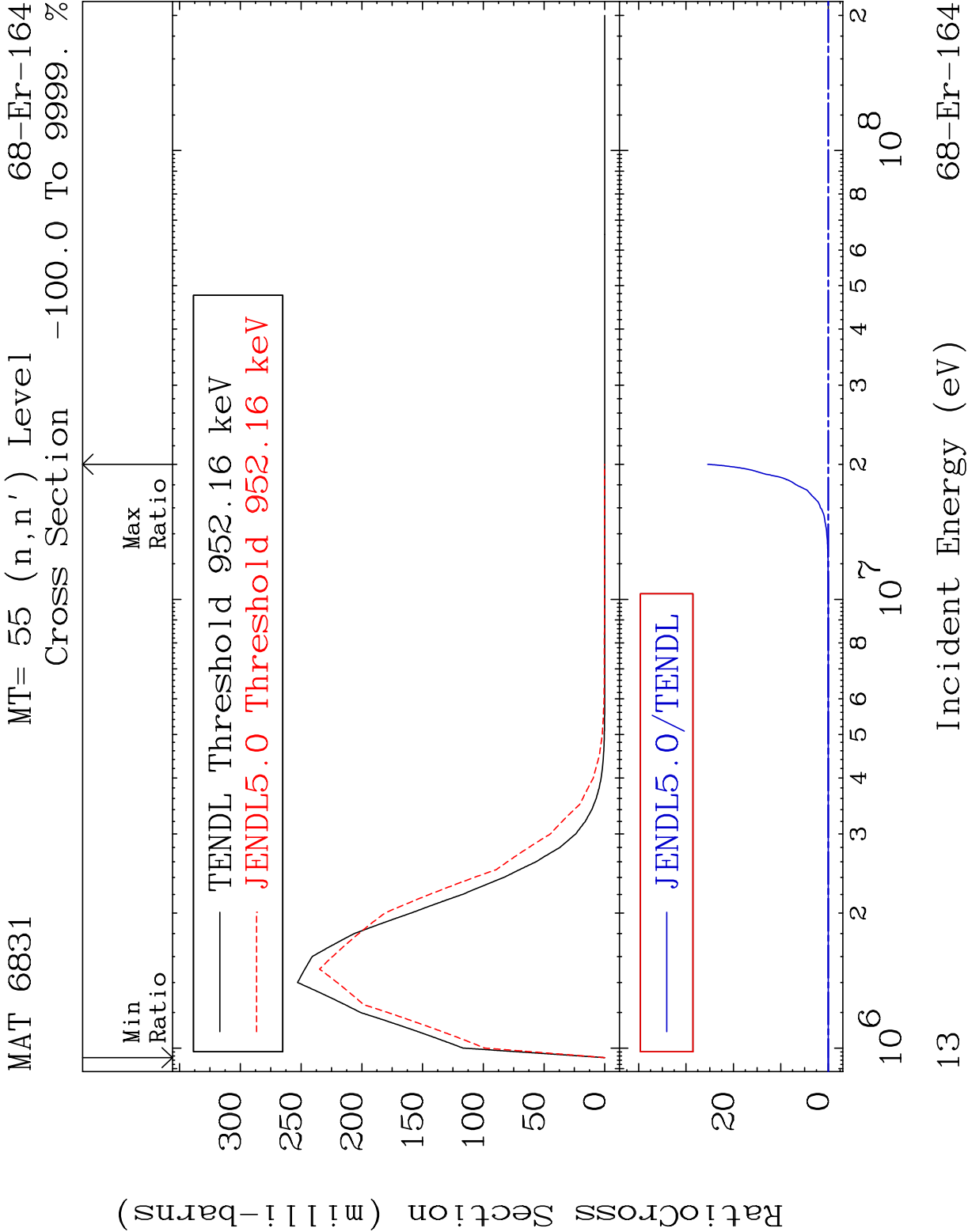


MAT 6831 MT= 54 (n,n') Level 68-Er-164

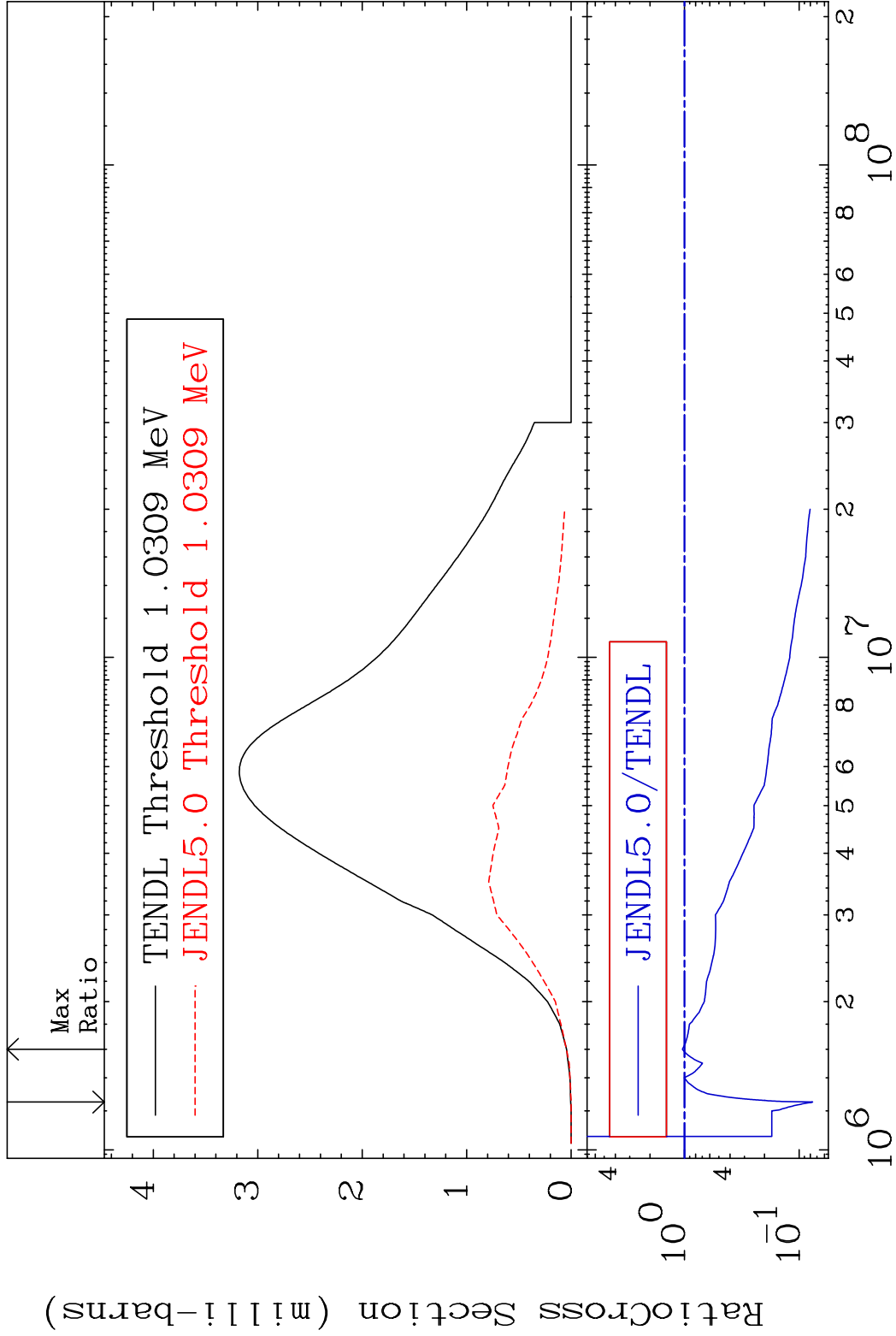
Cross Section -100.0 To 529.7 %



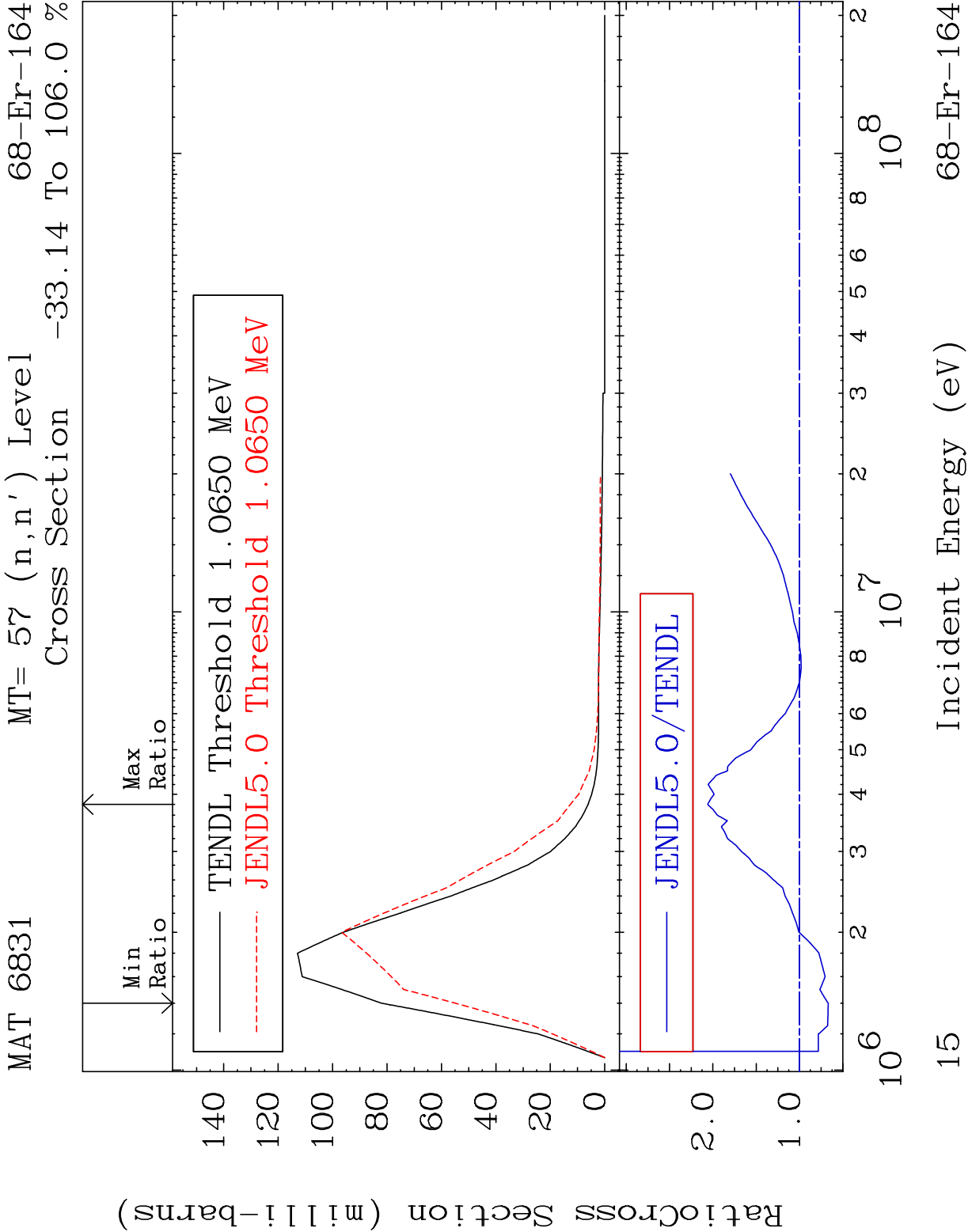
12 Incident Energy (eV) 68-Er-164



MAT 6831 MT= 56 (n,n') Level 68-Er-164
Cross Section -92.37 To 4.230 %



14 Incident Energy (eV) 68-Er-164



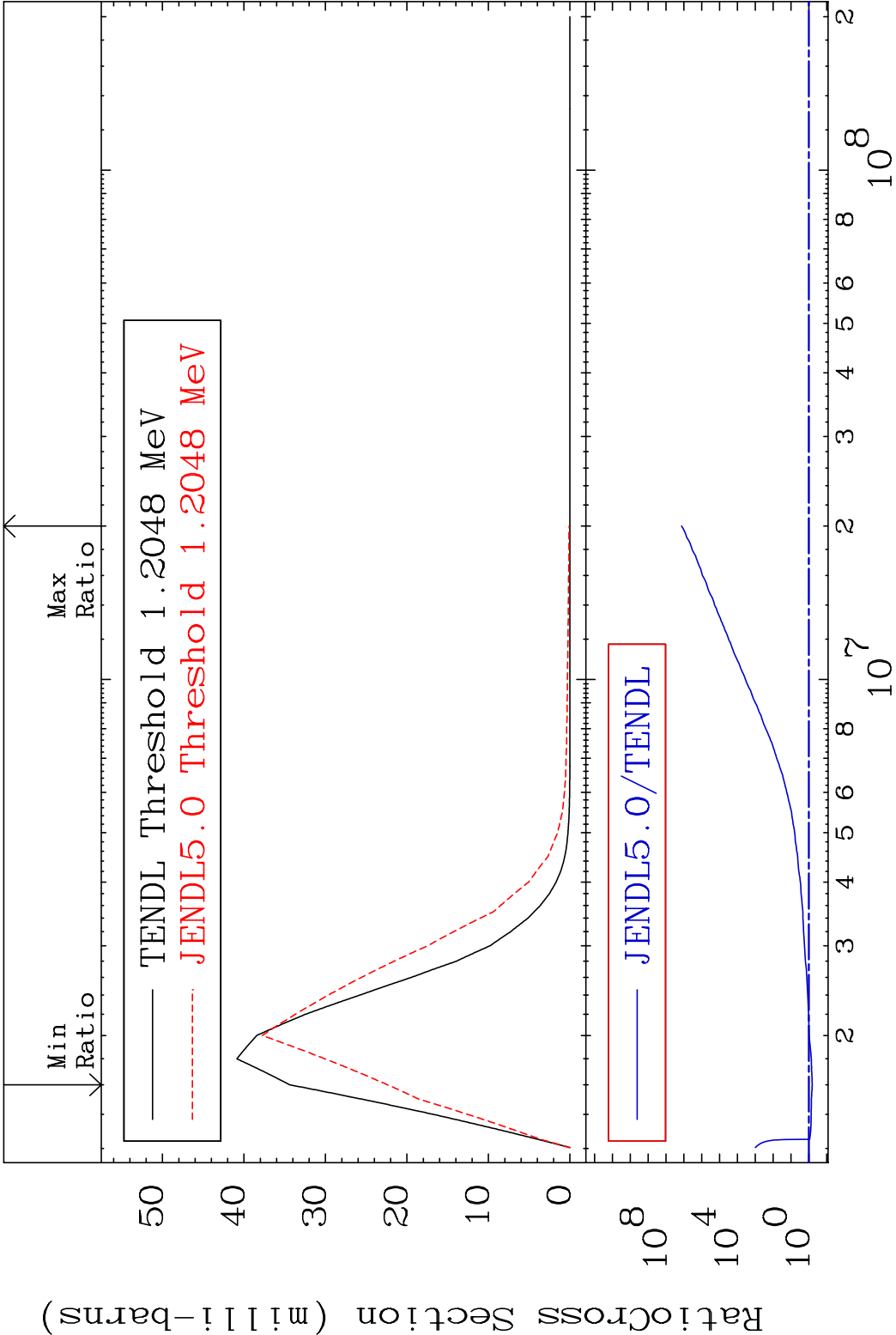
MAT 6831

MT= 58 (n,n') Level

68-Er-164

Cross Section

-34.89 To 9999. %



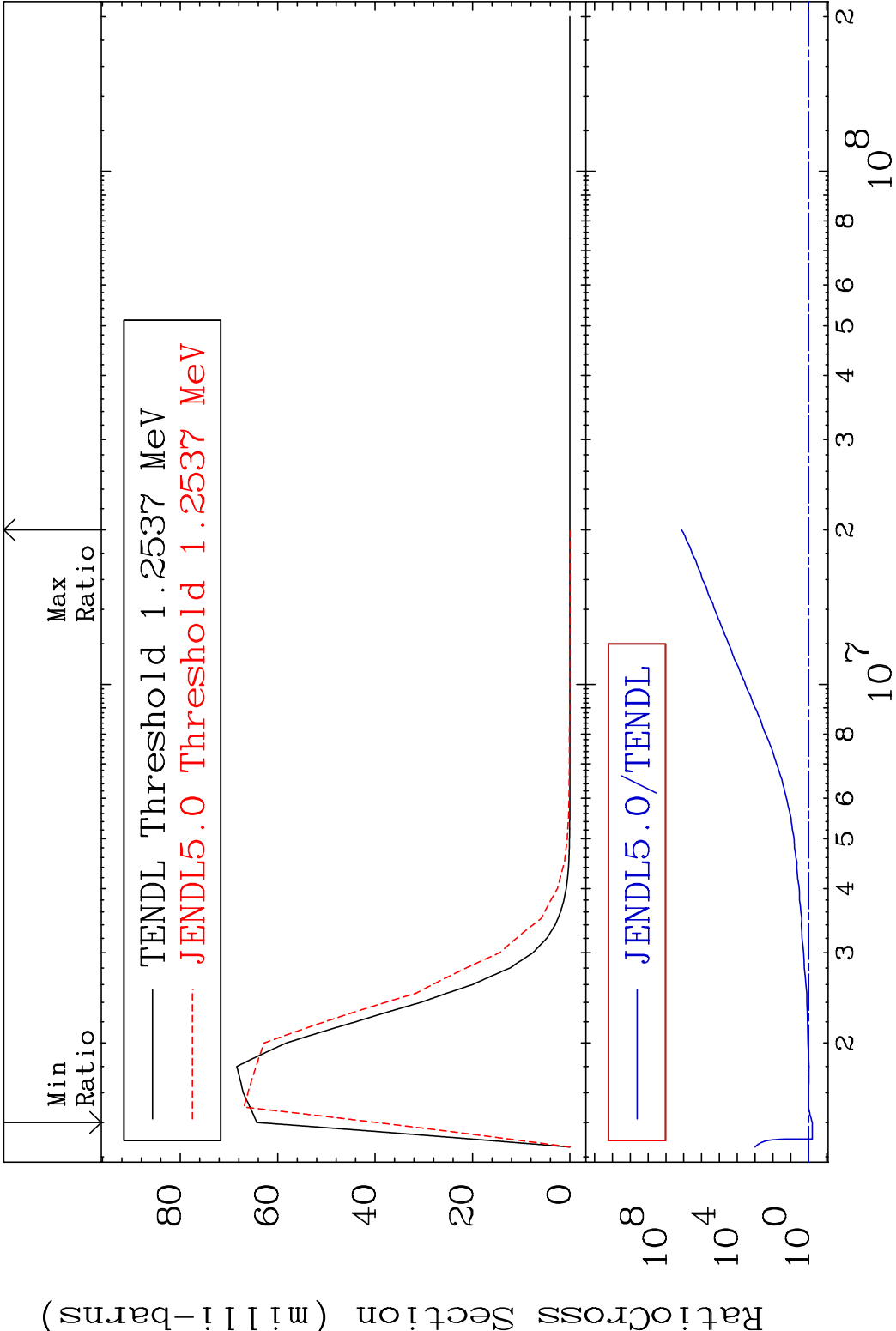
MAT 6831

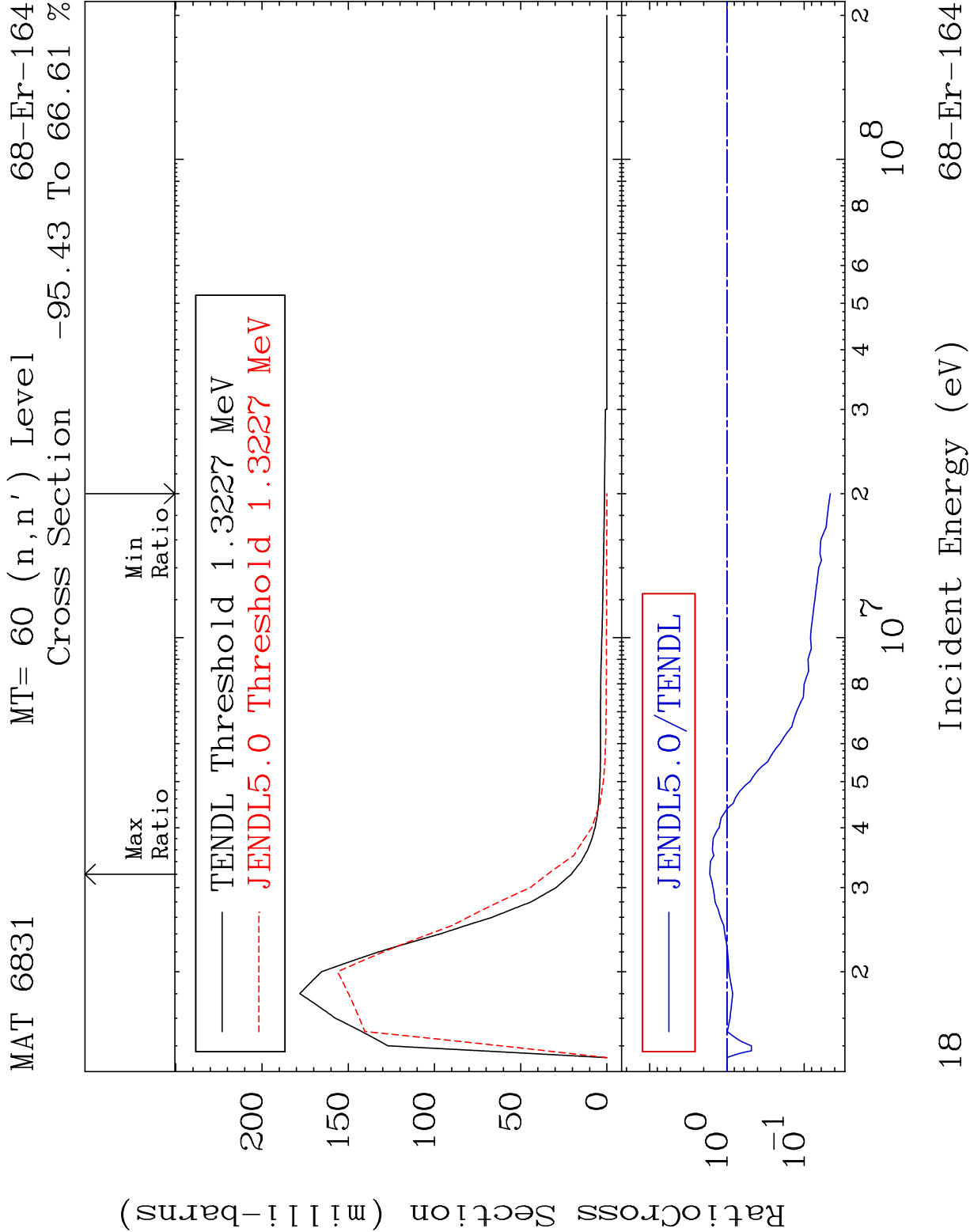
MT= 59 (n,n') Level

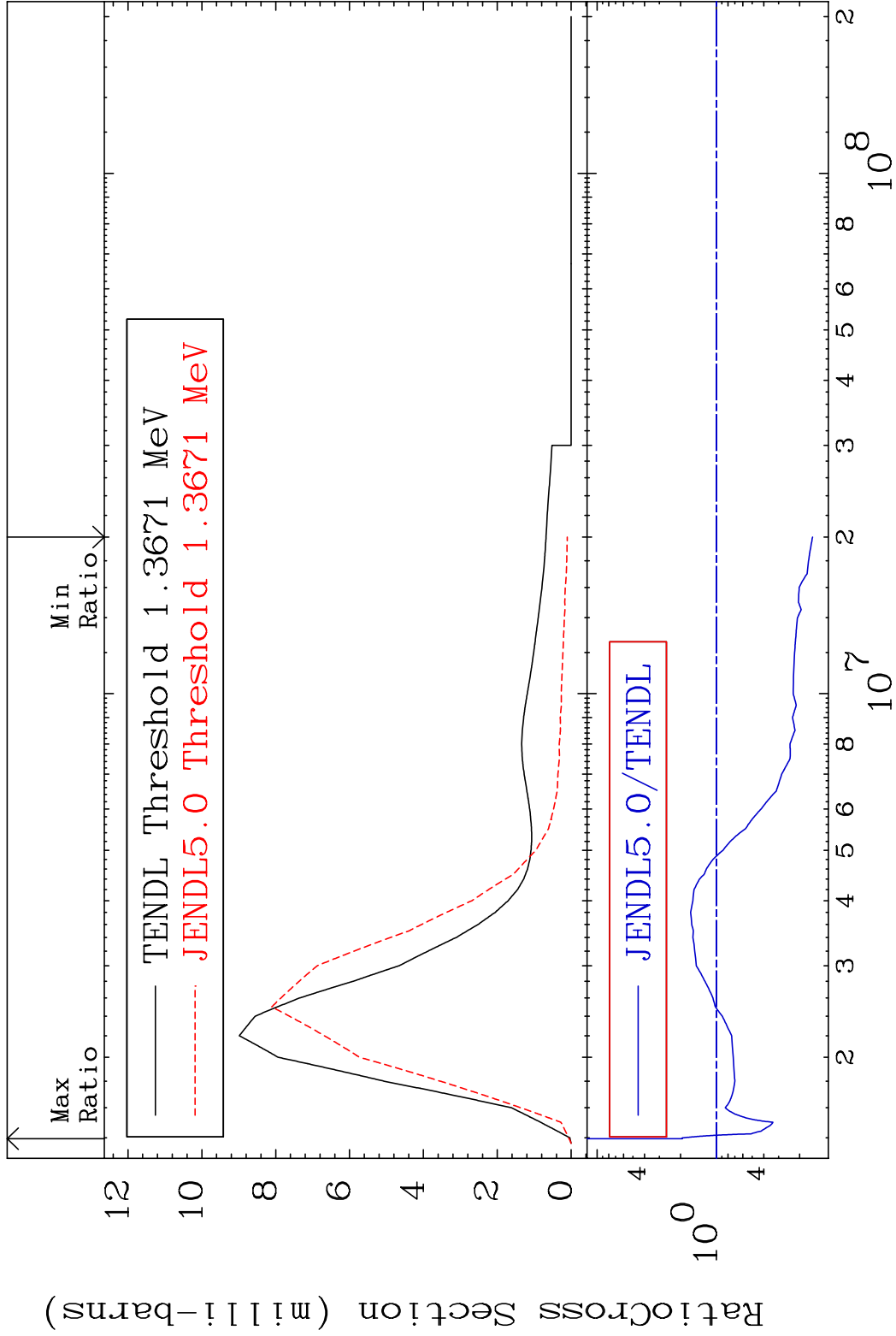
68-Er-164

Cross Section

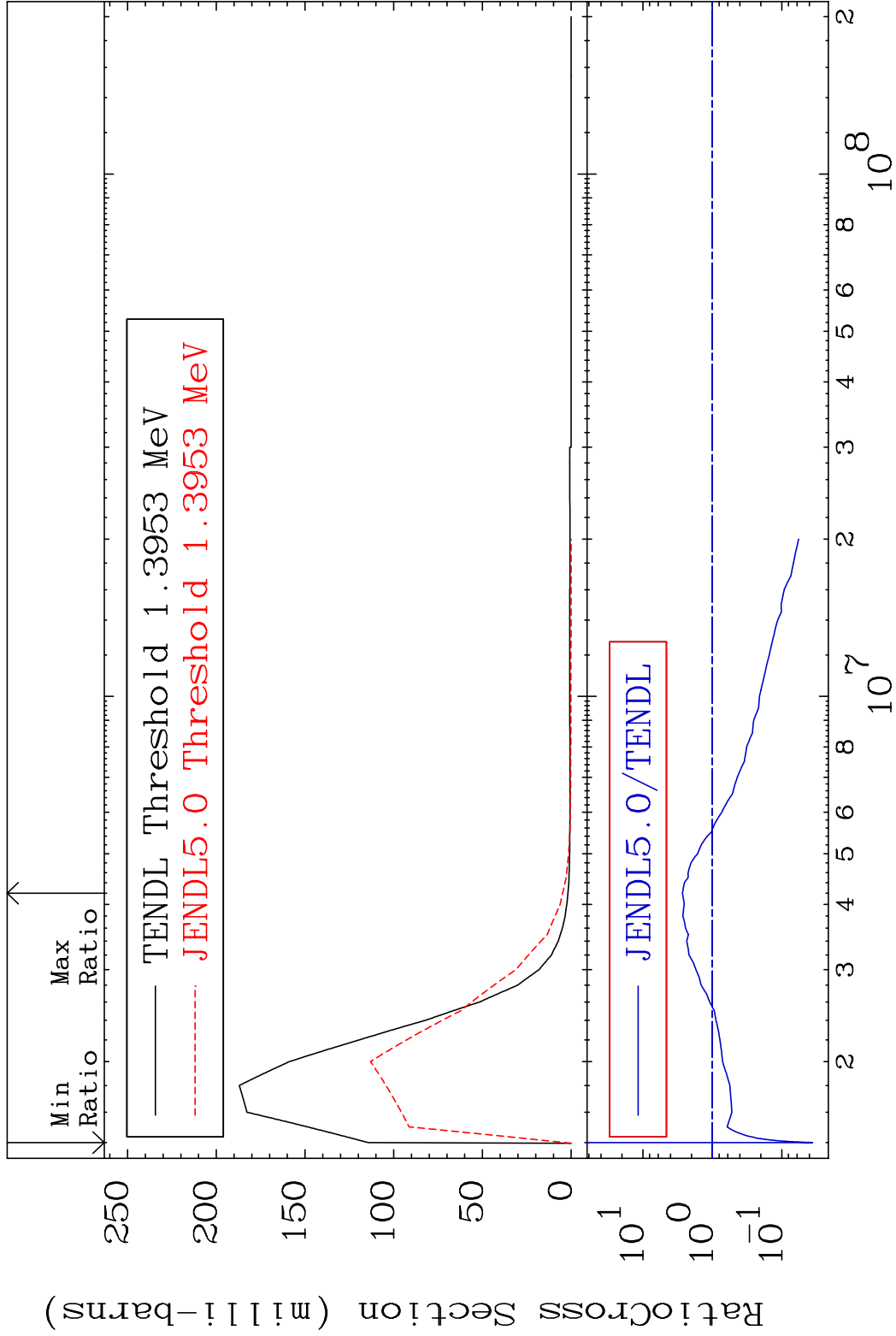
-38.16 To 9999. %







MAT 6831 MT= 62 (n,n') Level 68-Er-164
Cross Section -96.39 To 169.9 %



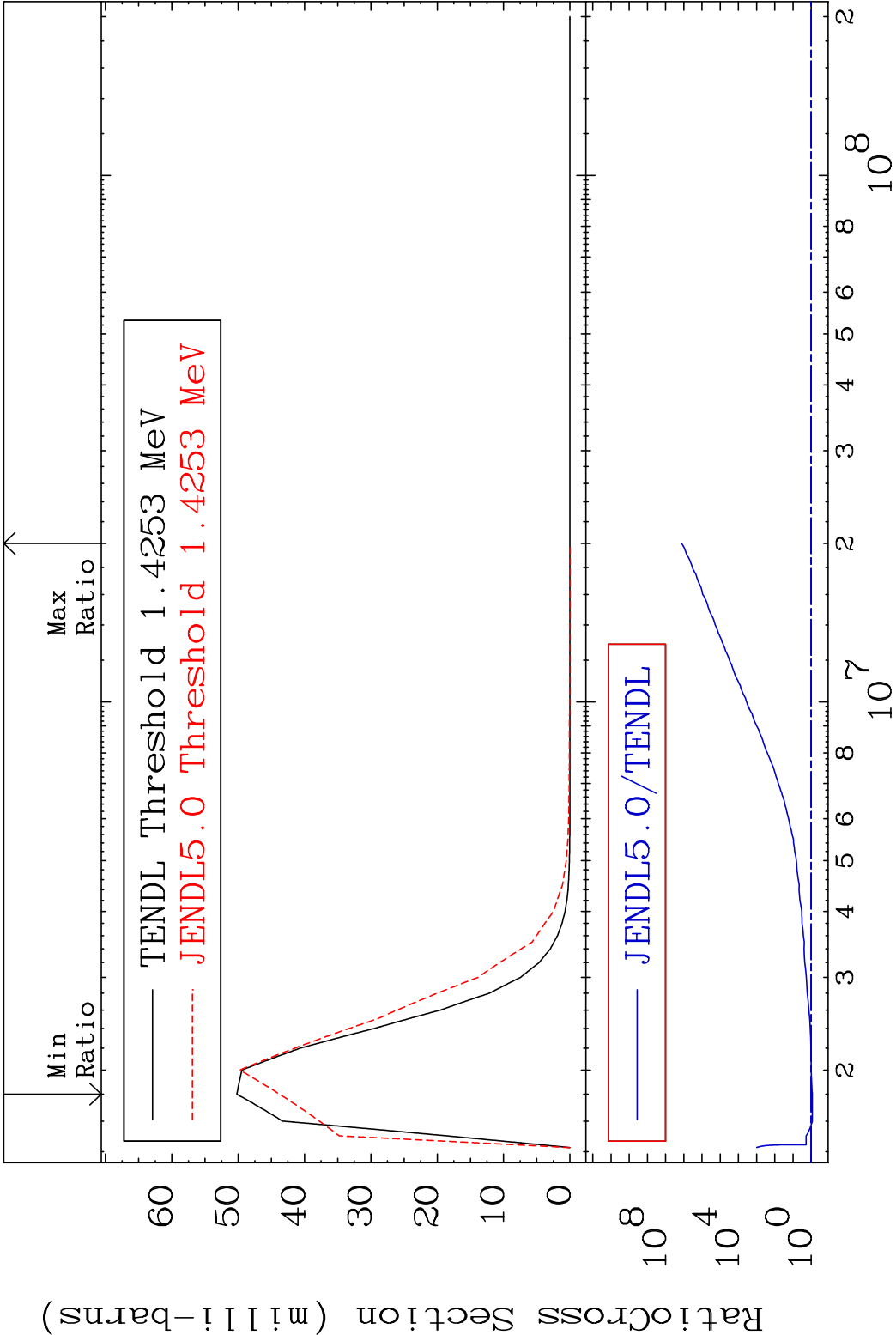
MAT 6831

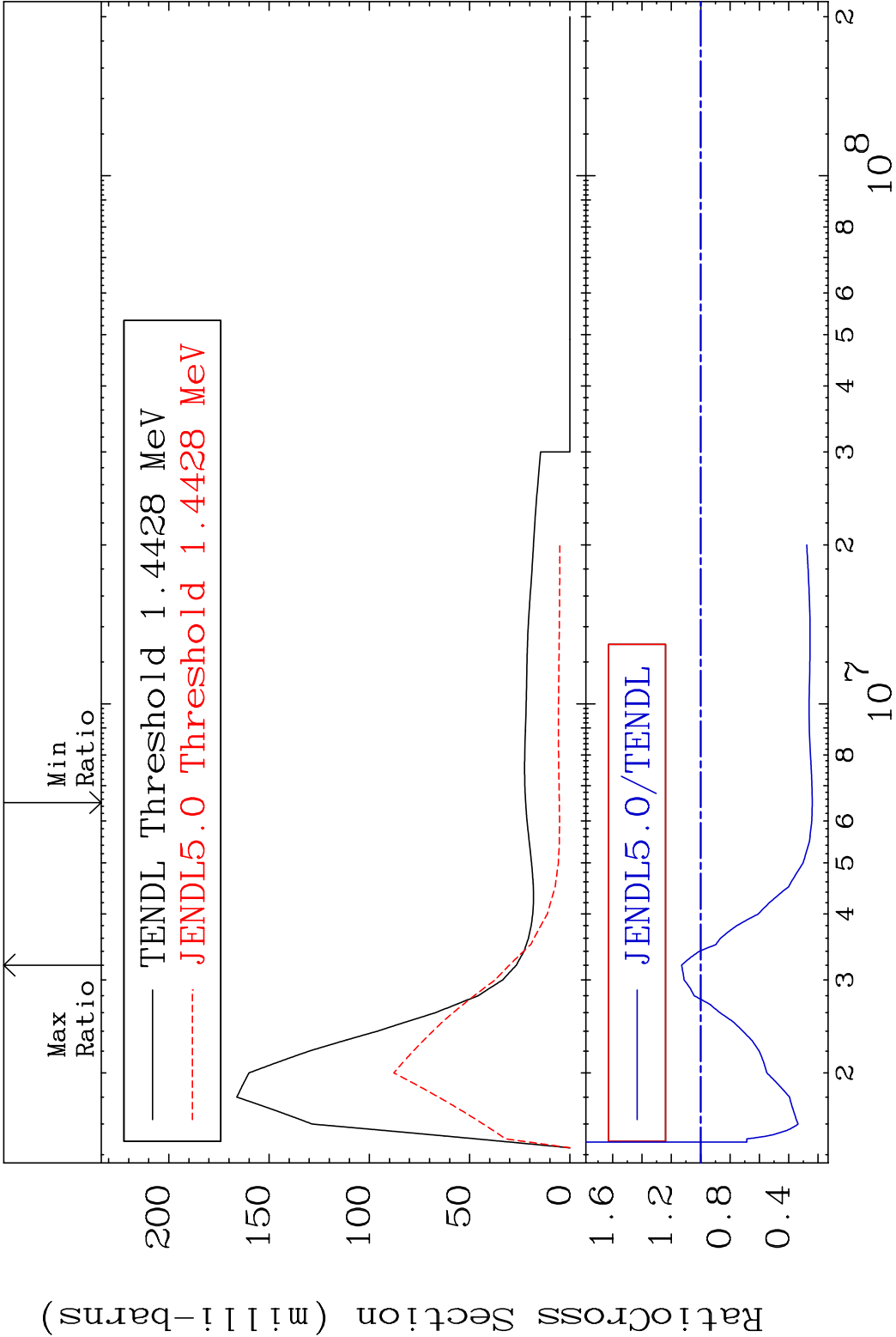
MT= 63 (n,n') Level

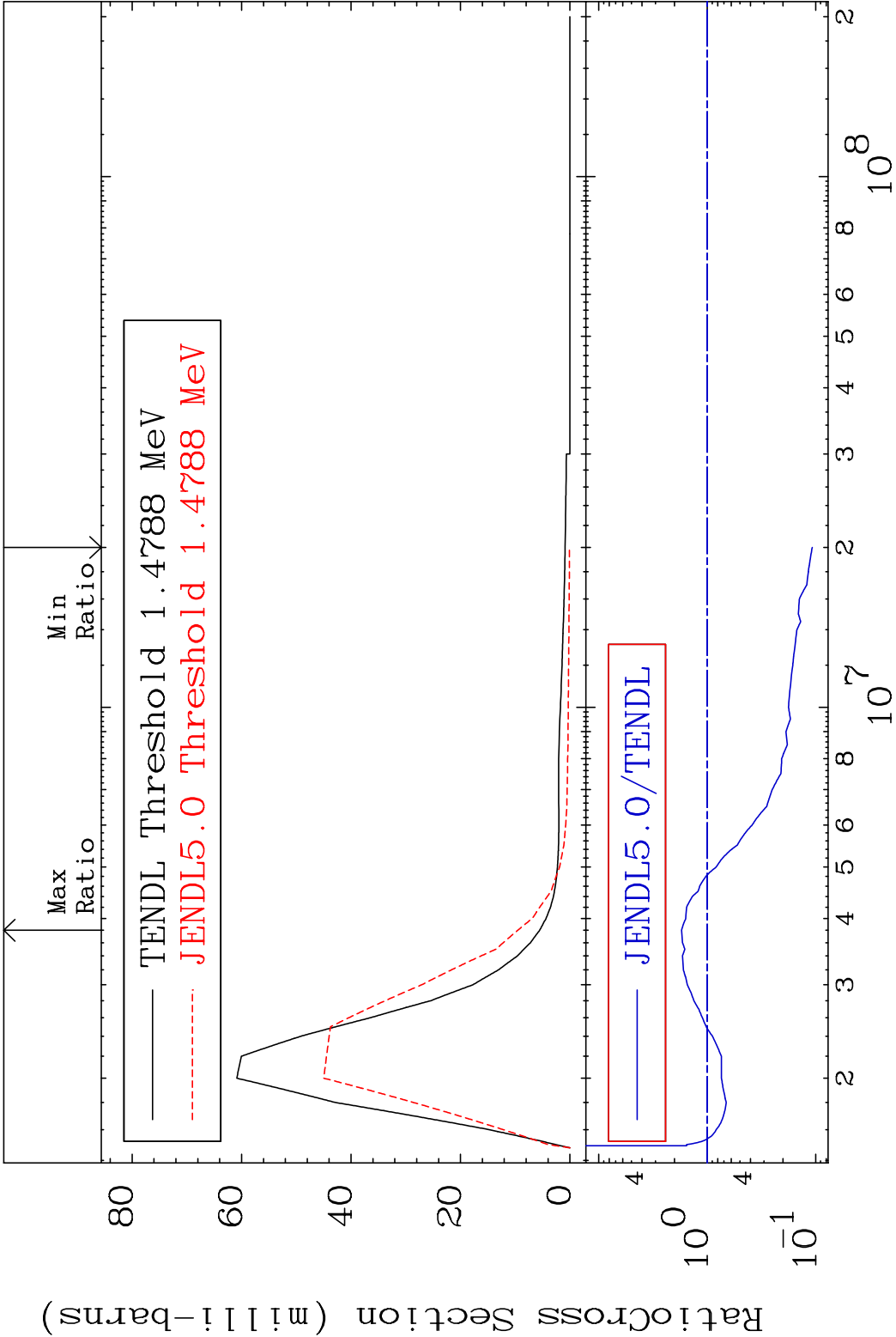
68-Er-164

Cross Section

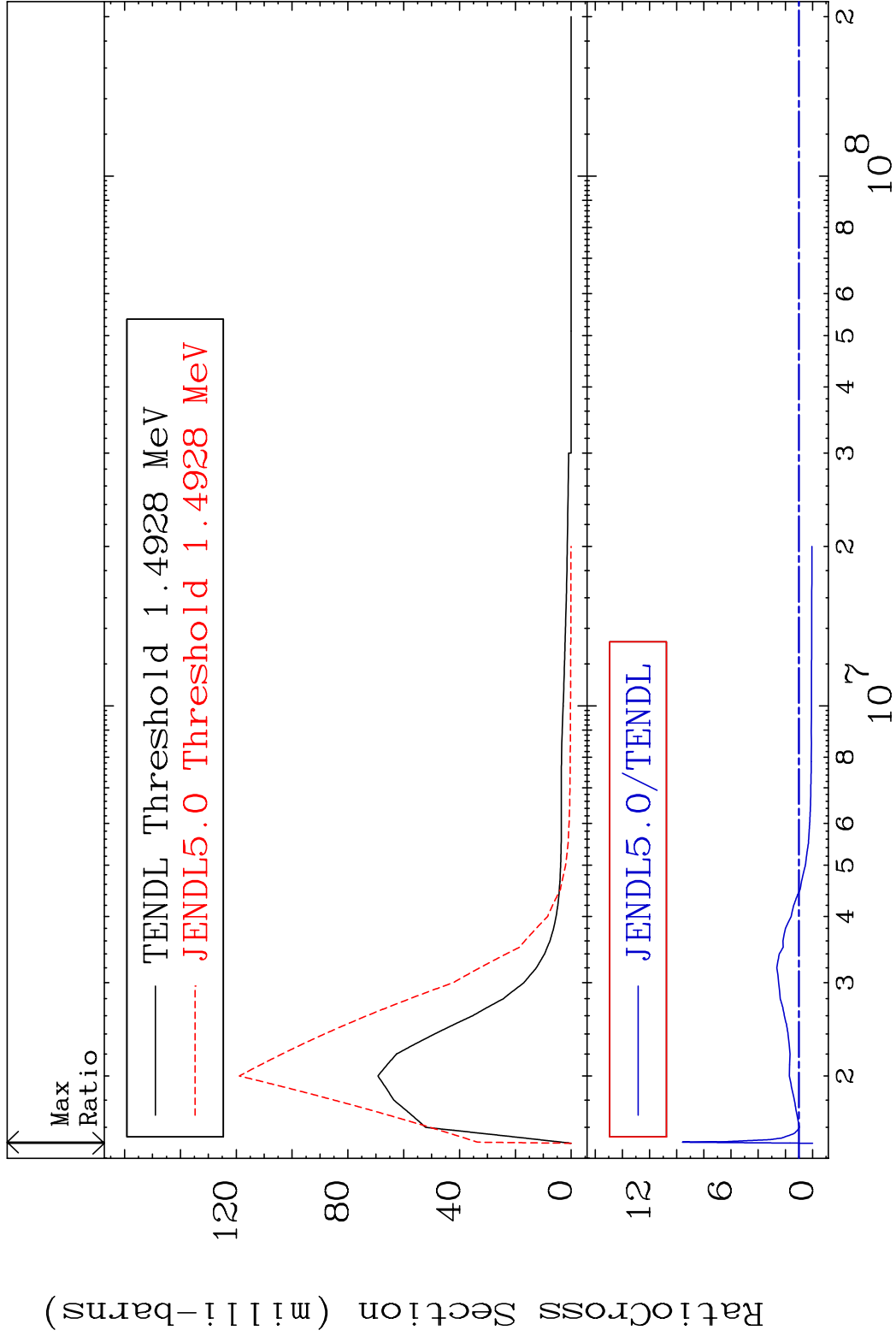
-12.83 To 9999. %

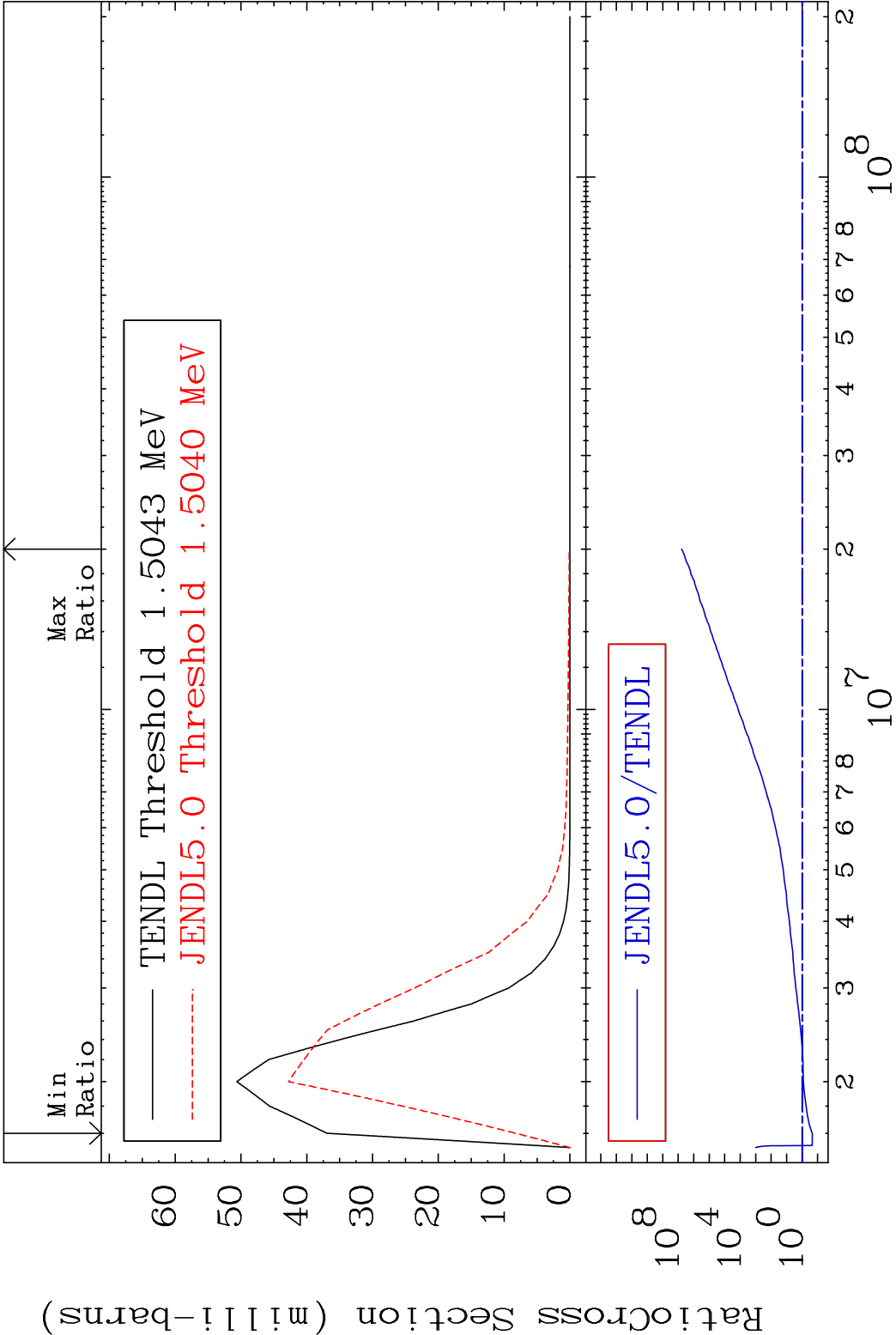


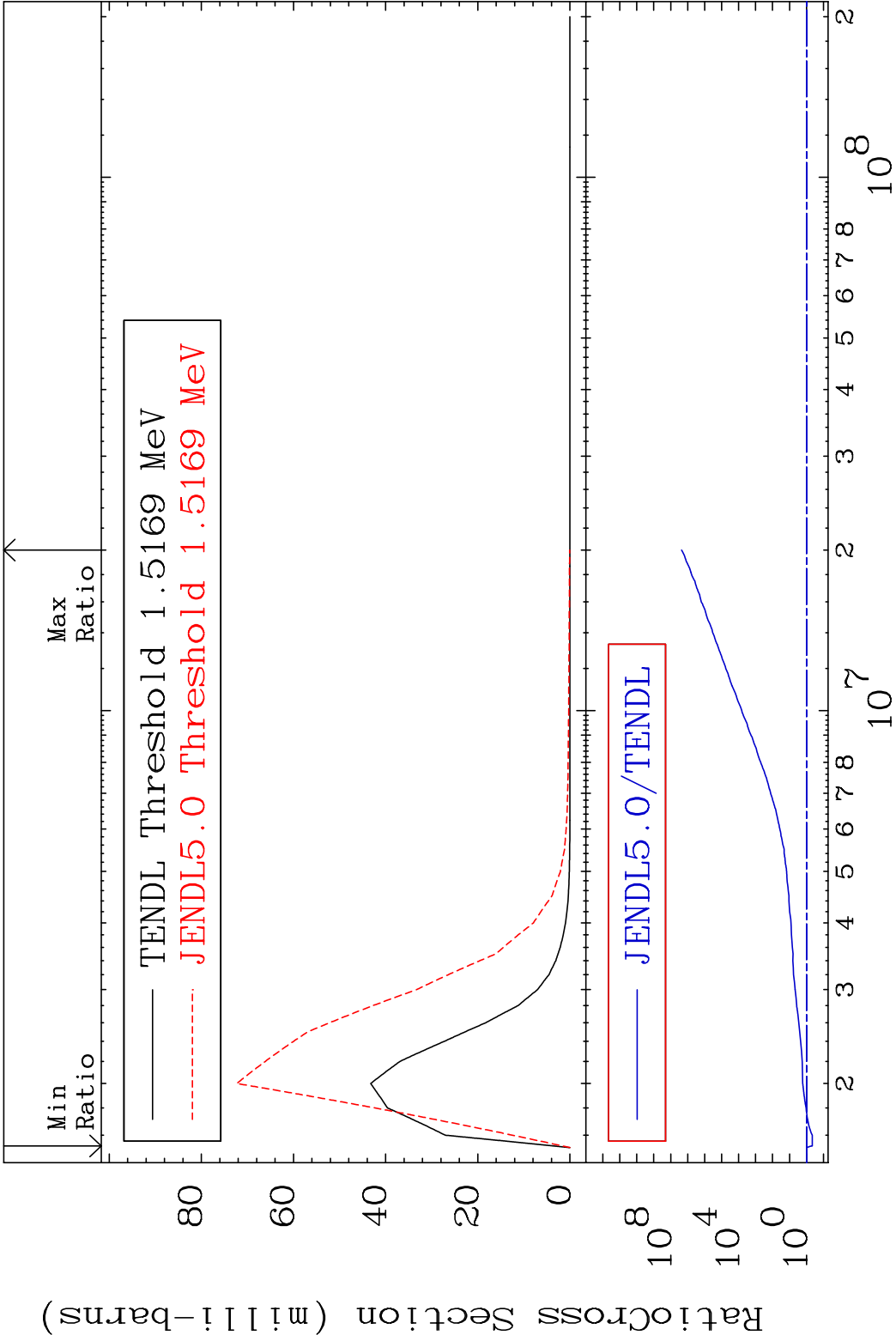


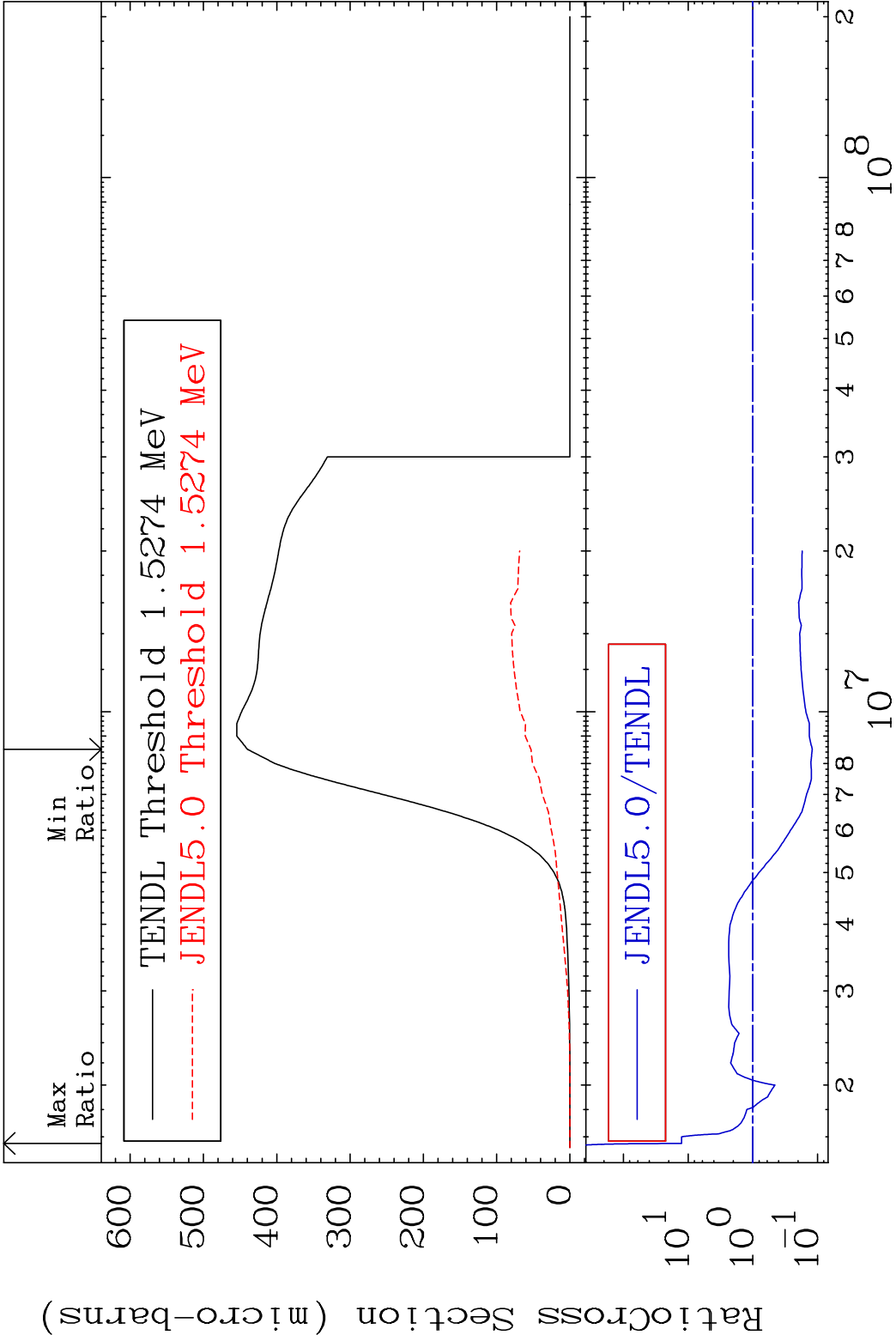


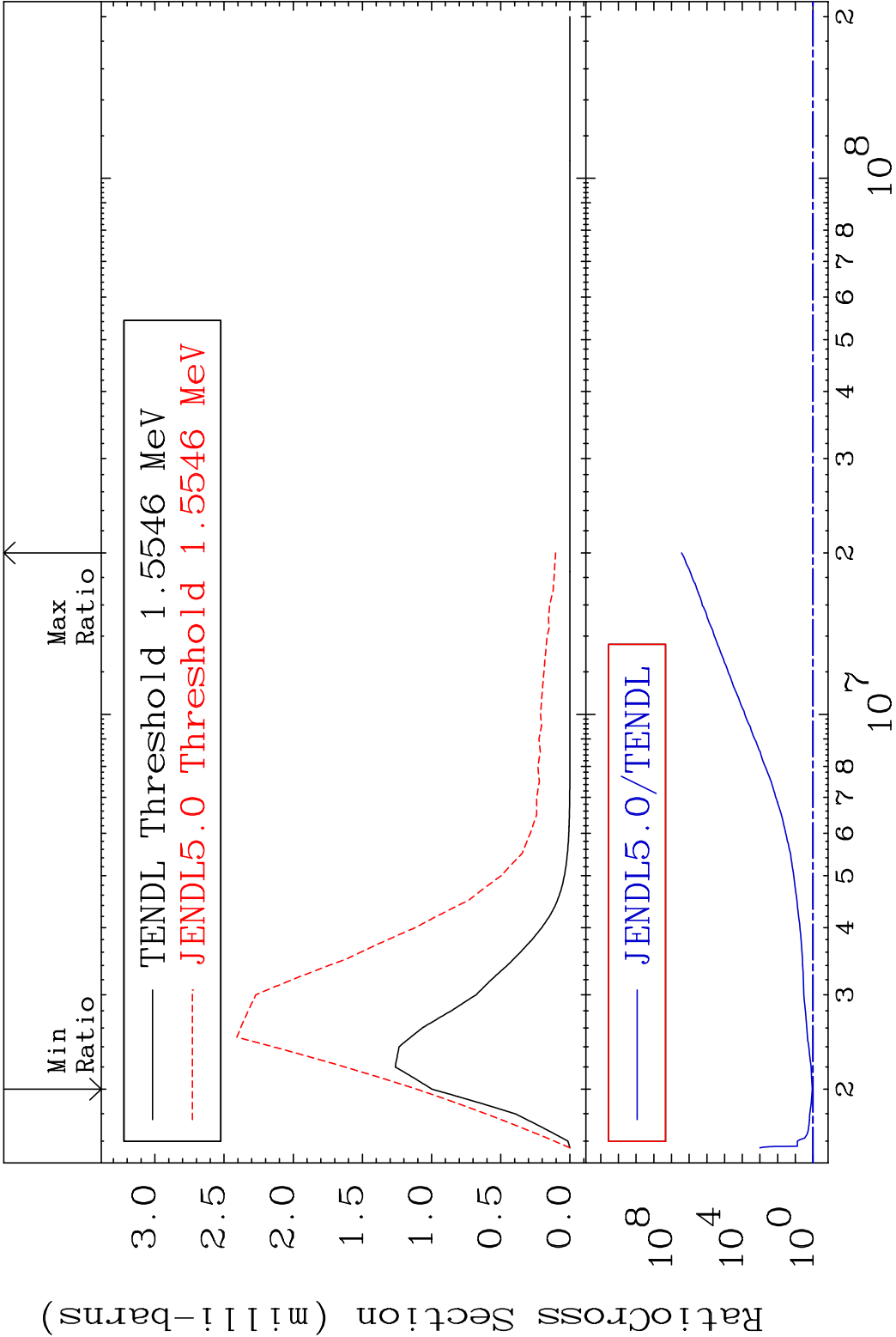
MAT 6831 MT= 66 (n,n') Level 68-Er-164
Cross Section -100.0 To 858.4 %

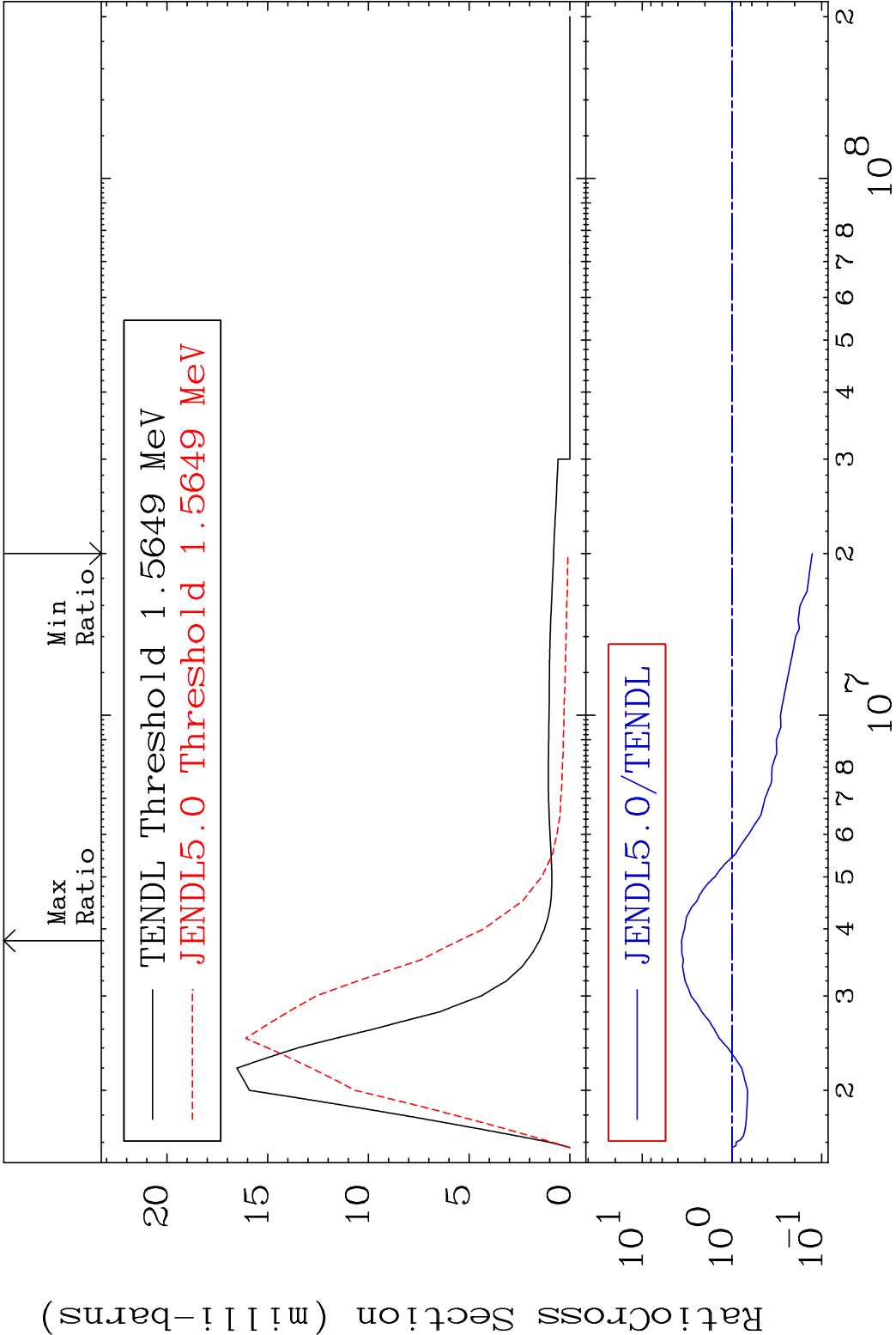












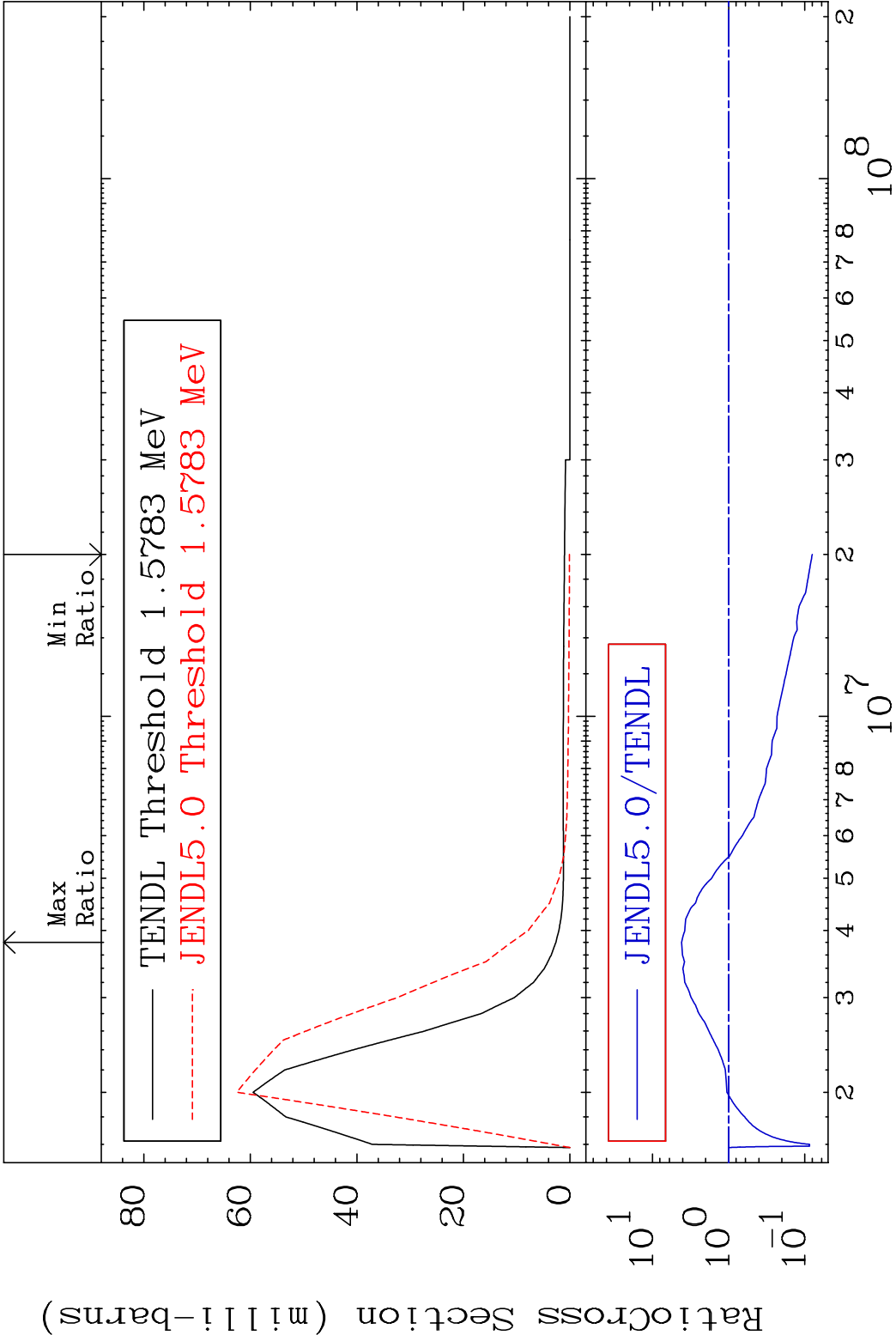
MAT 6831

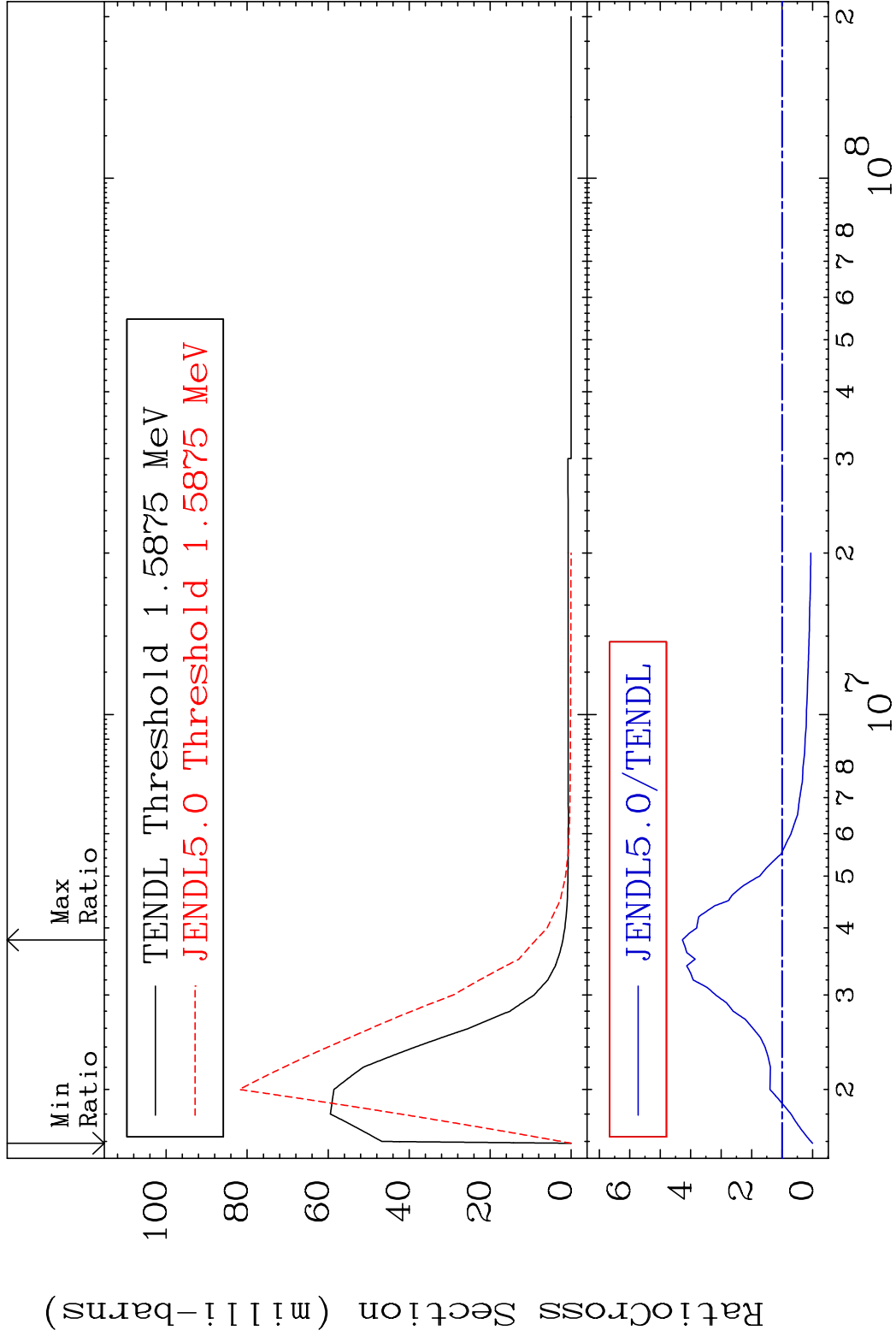
MT= 72 (n,n') Level

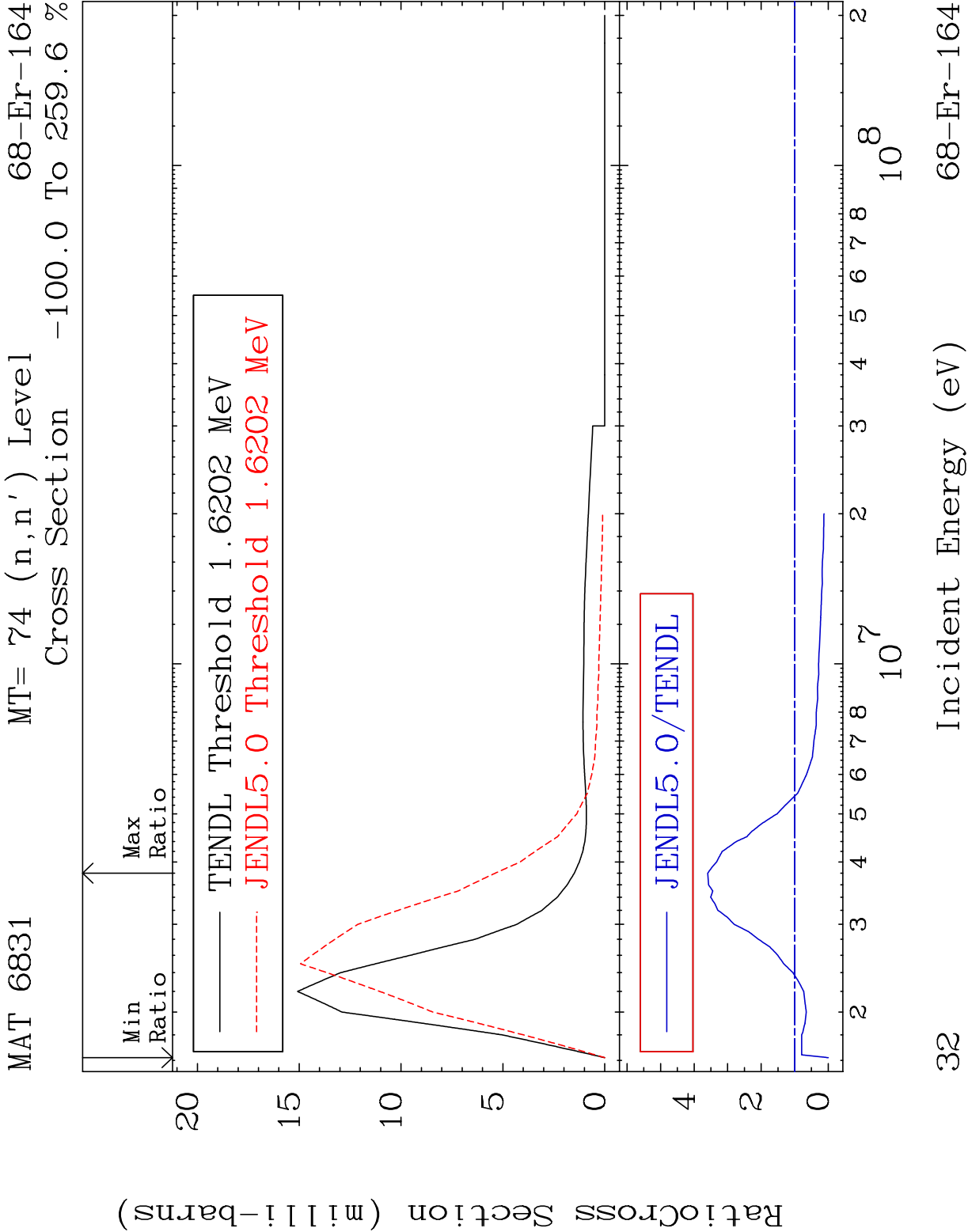
68-Er-164

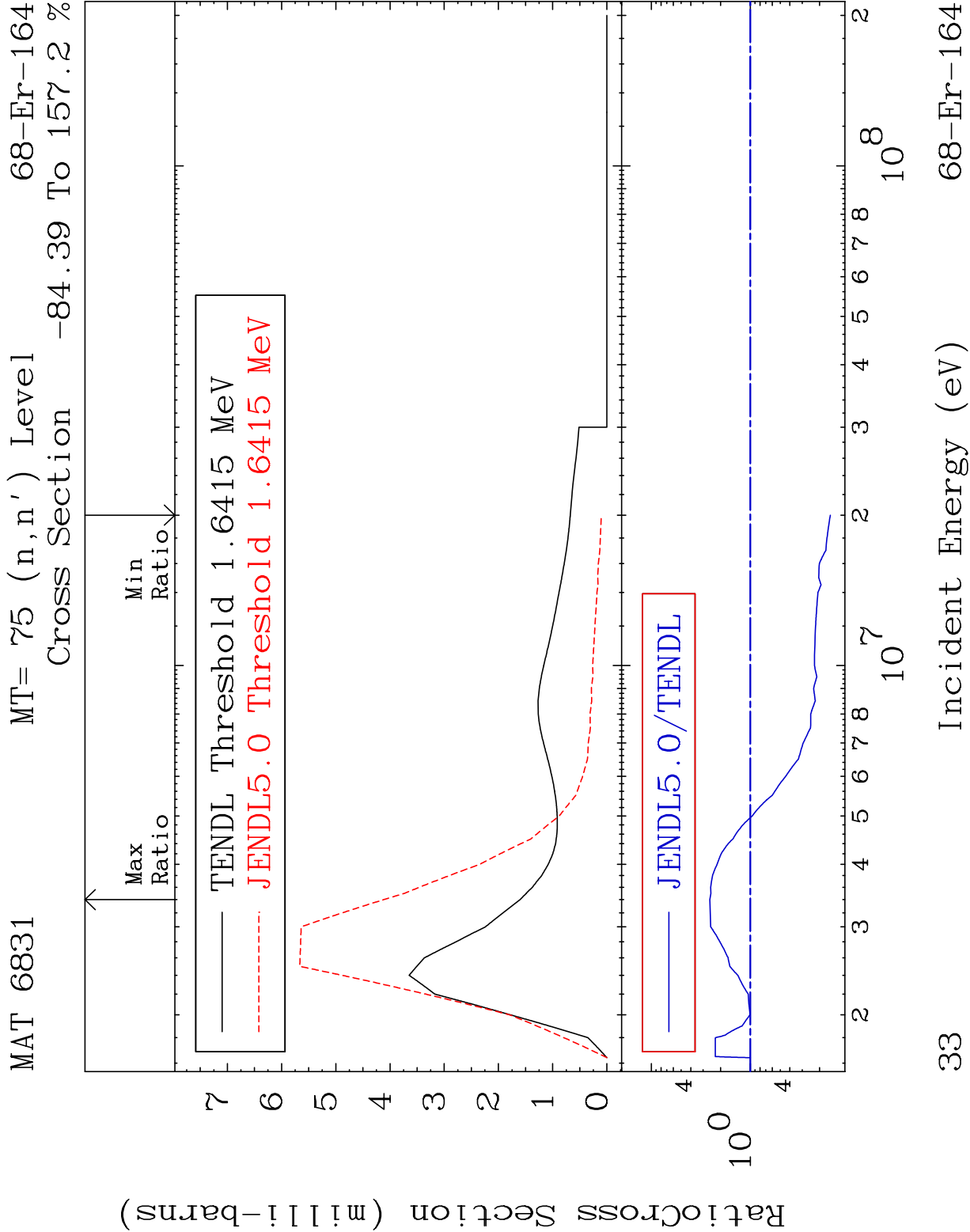
Cross Section

-92.01 To 315.1 %









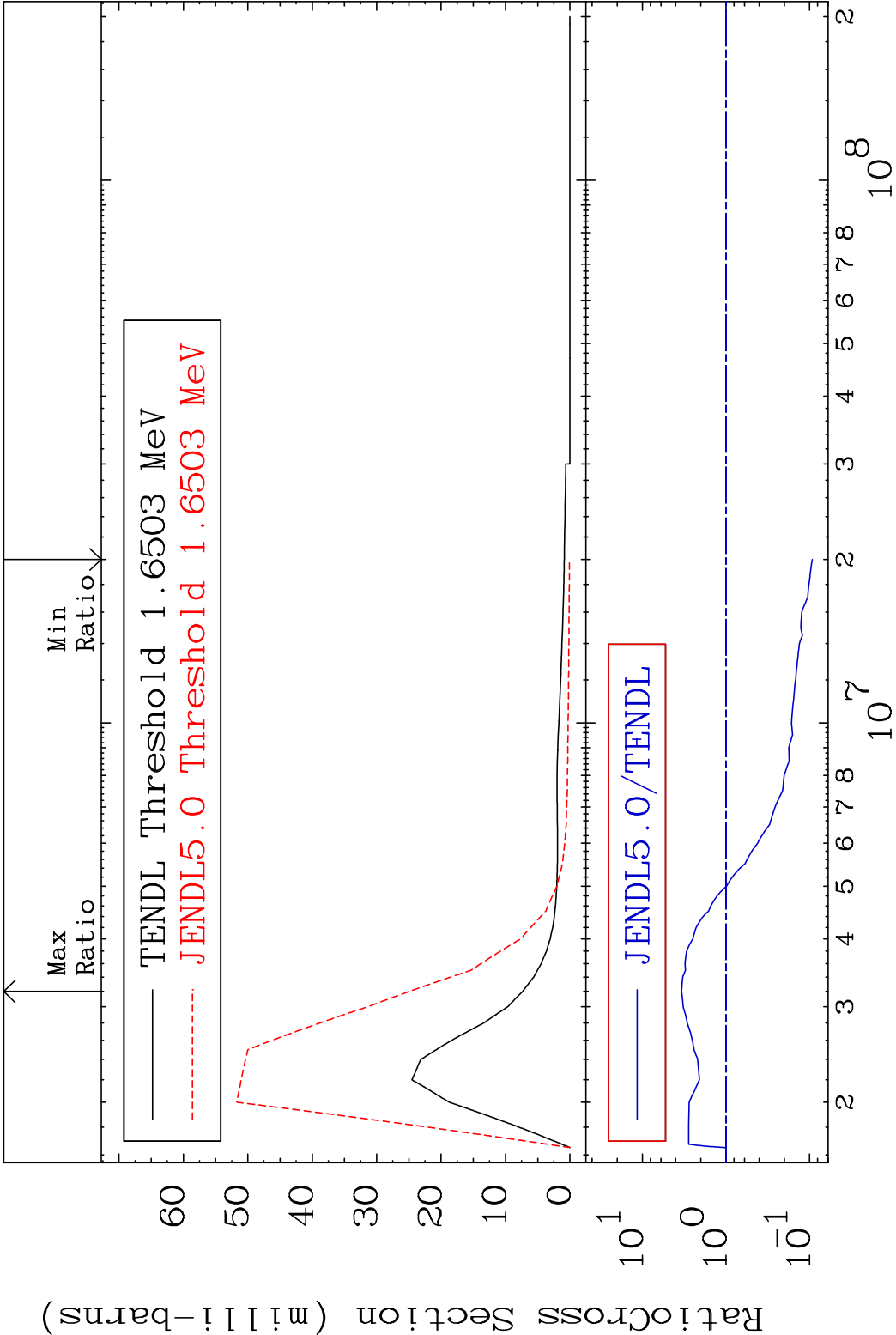
MAT 6831

MT= 76 (n,n') Level

68-Er-164

Cross Section

-90.73 To 239.6 %



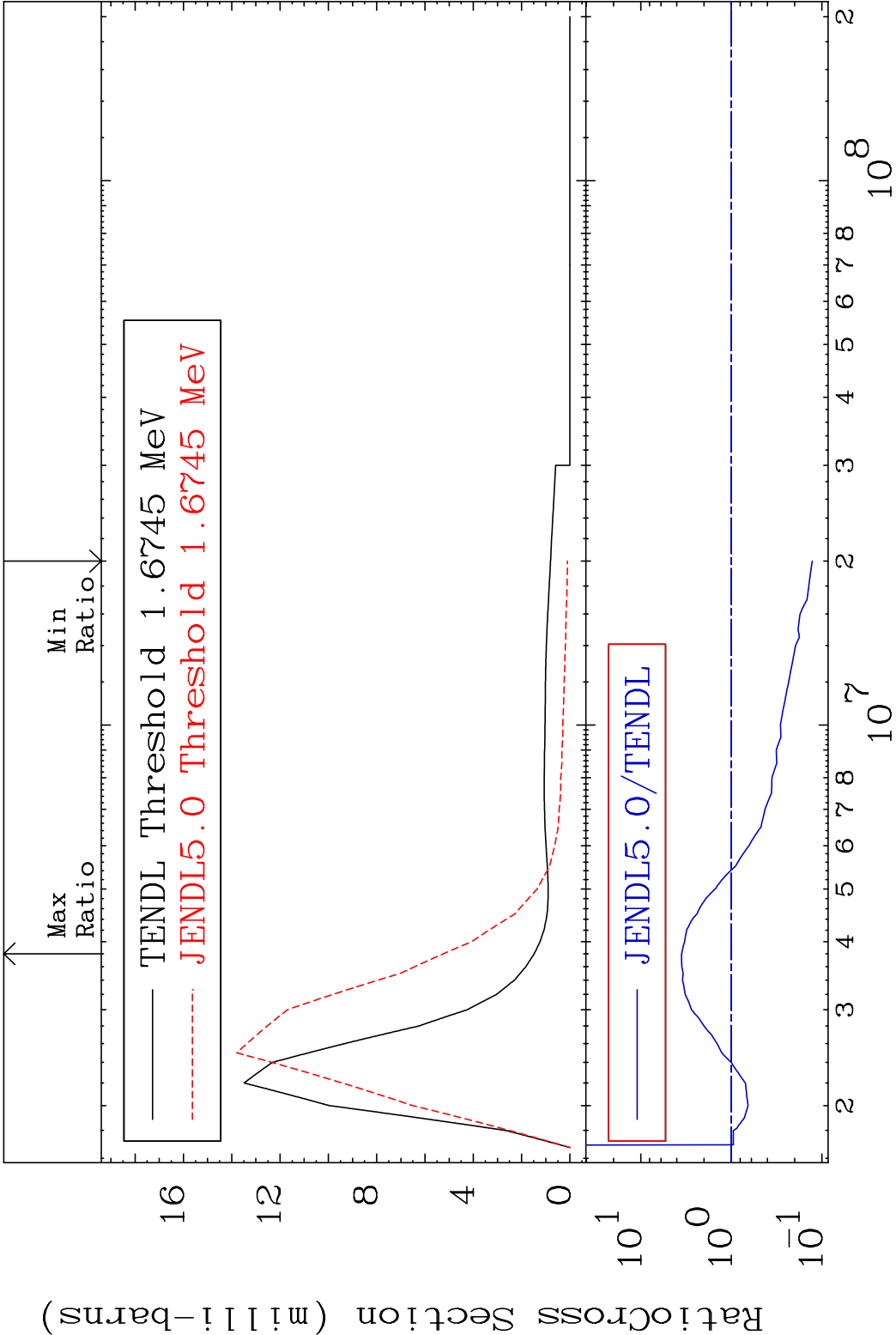
MAT 6831

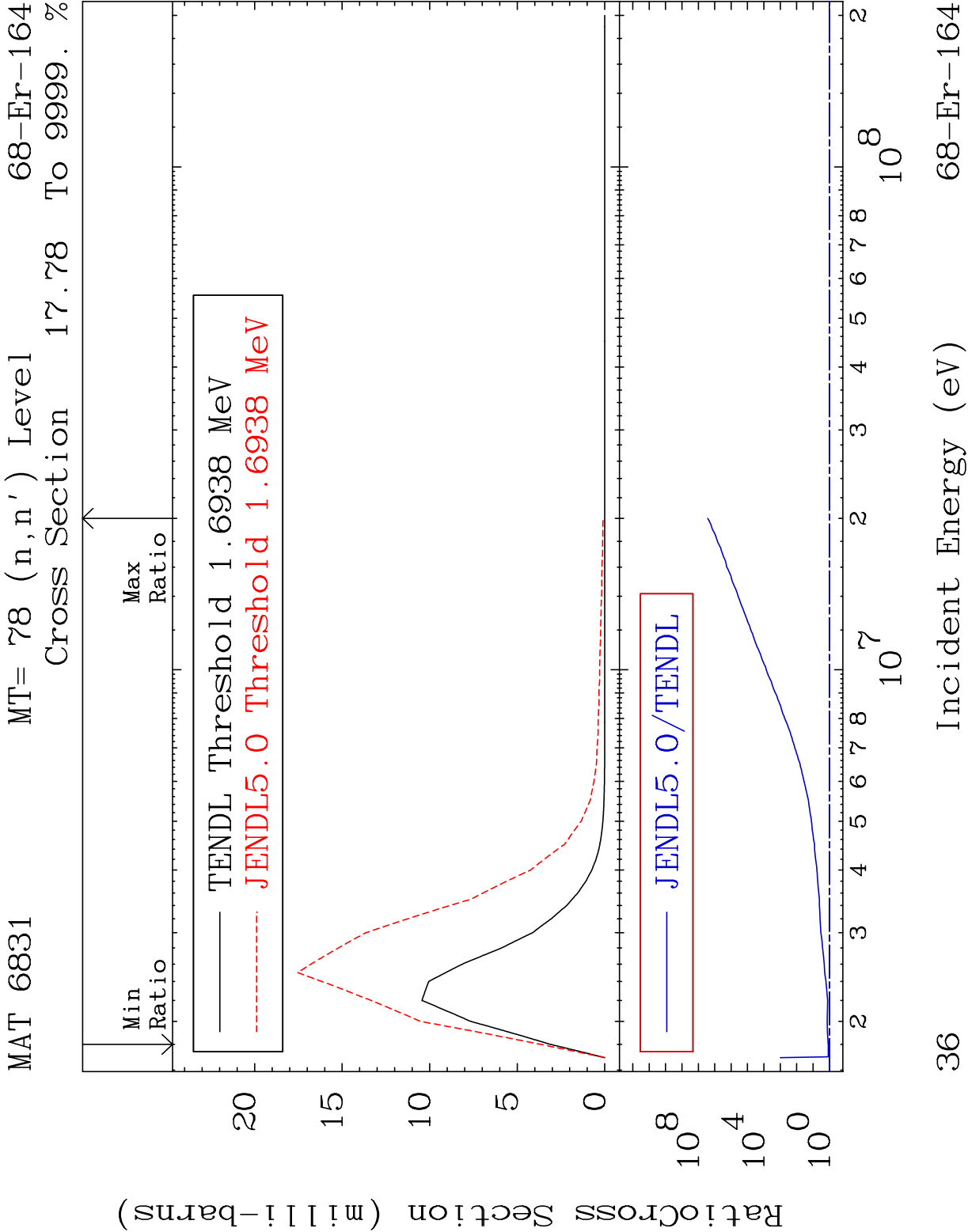
MT= 77 (n,n') Level

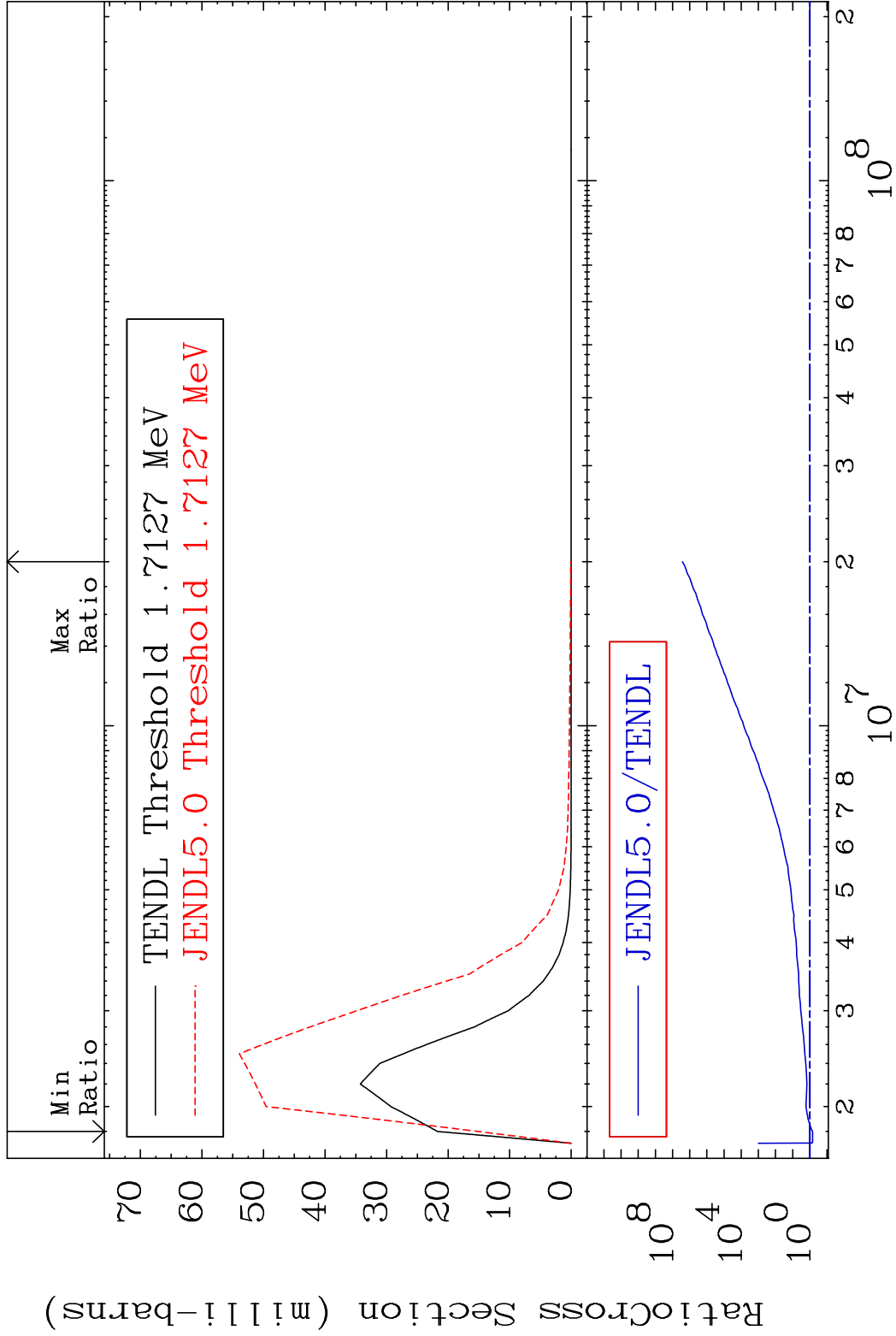
68-Er-164

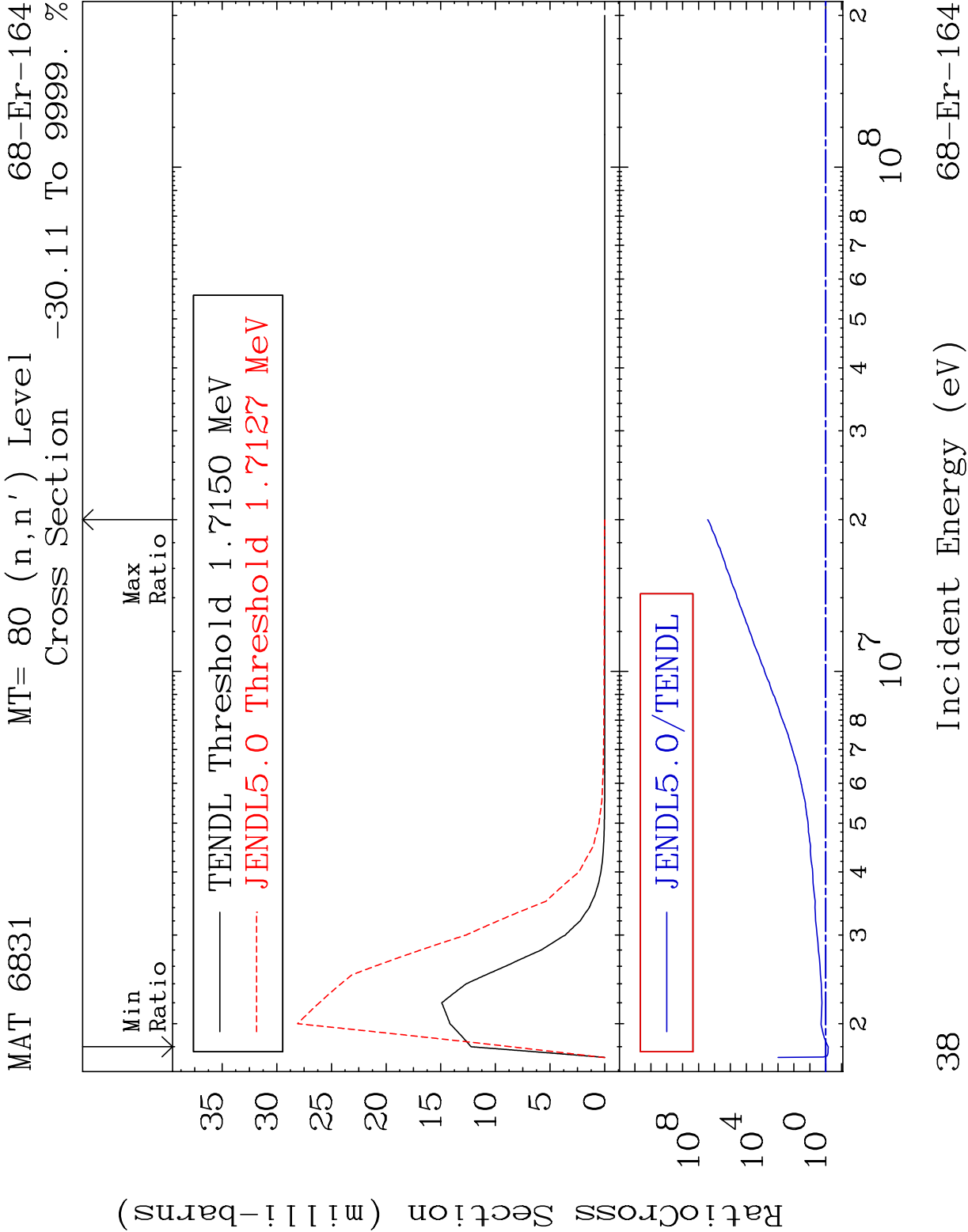
Cross Section

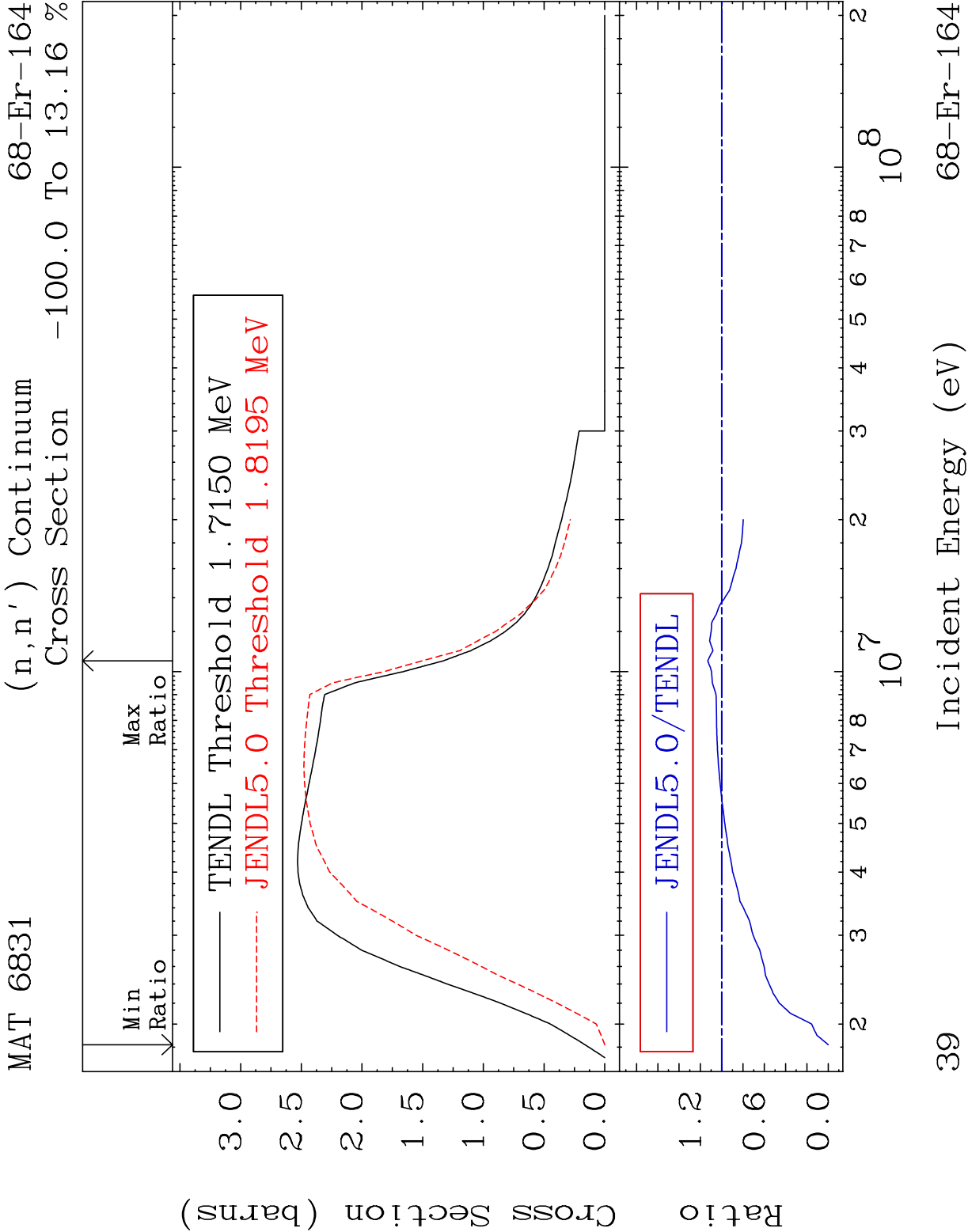
-87.25 To 254.7 %









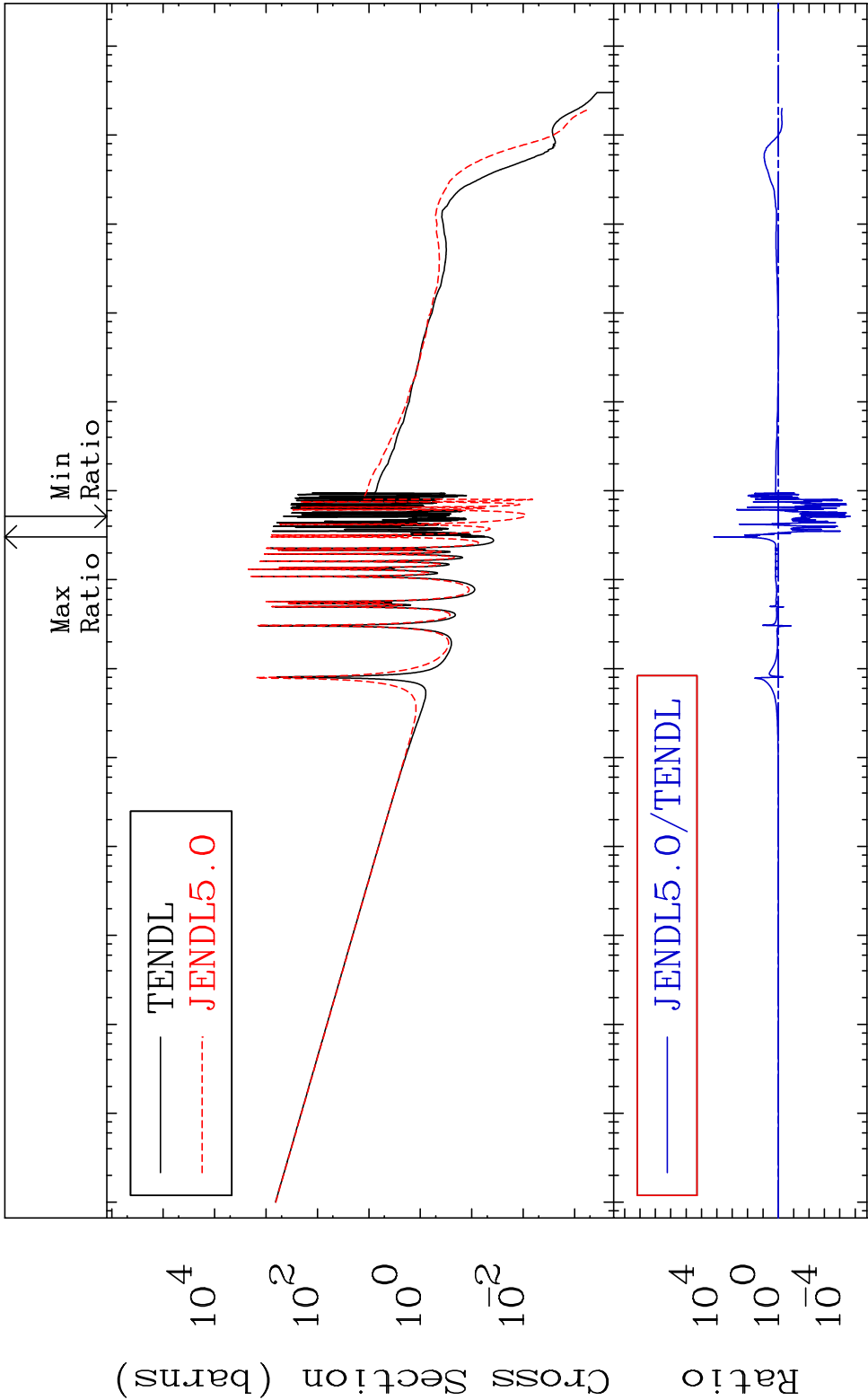


MAT 6831

(n, γ)

68-Er-164

Cross Section -100.0 To 9999. %



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

40

Incident Energy (eV)

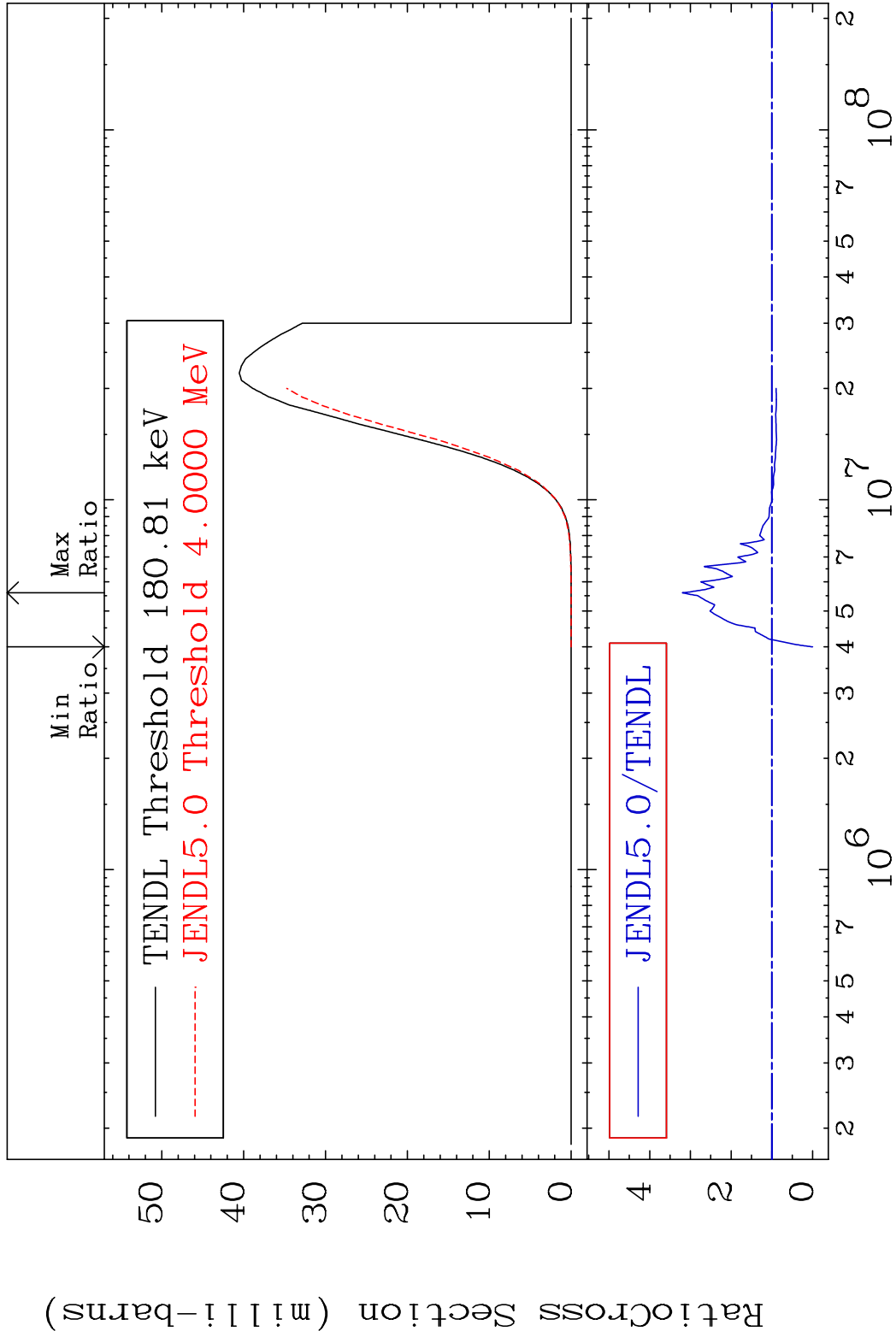
68-Er-164

MAT 6831

(n,p)

68-Er-164

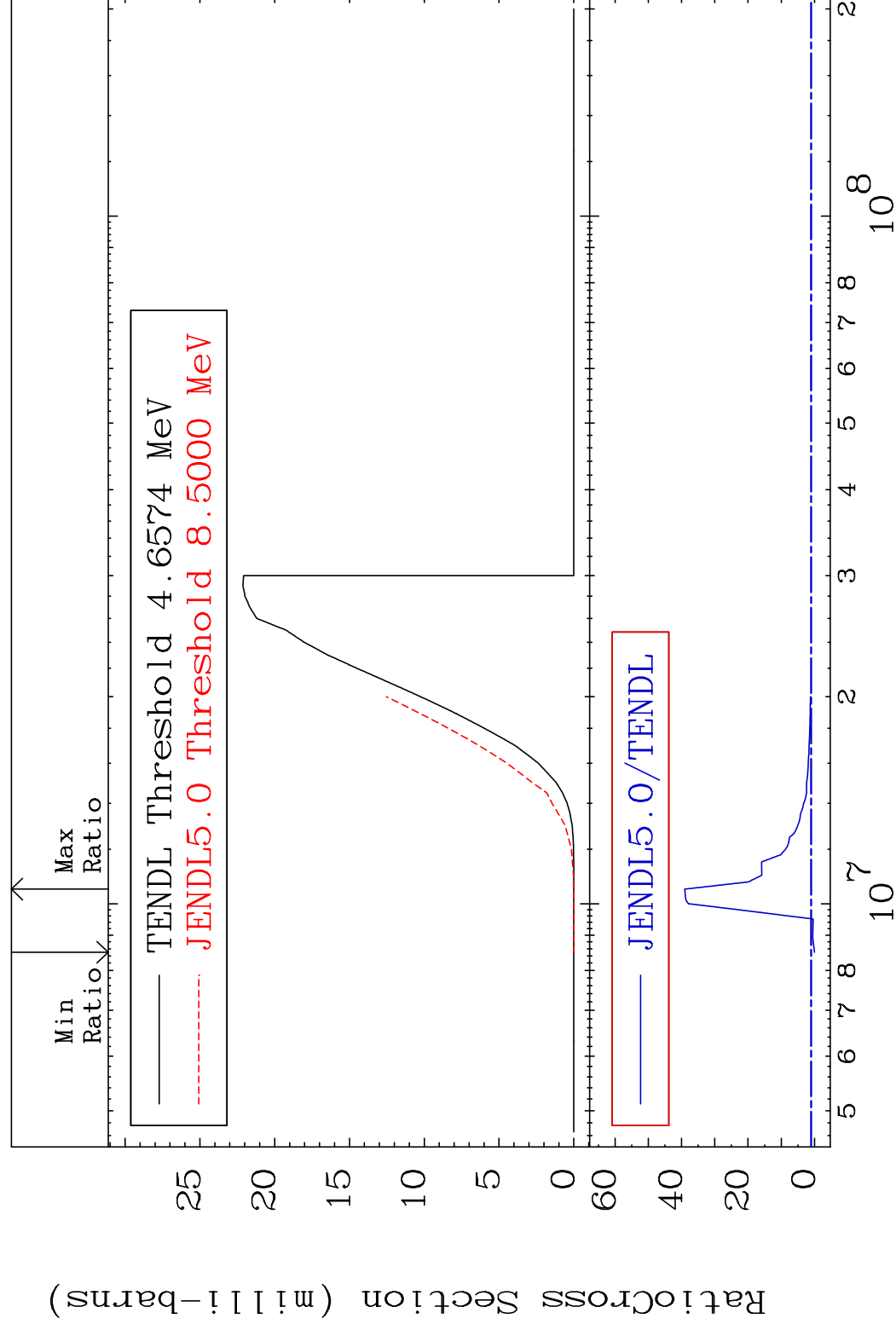
Cross Section -100.0 To 219.8 %

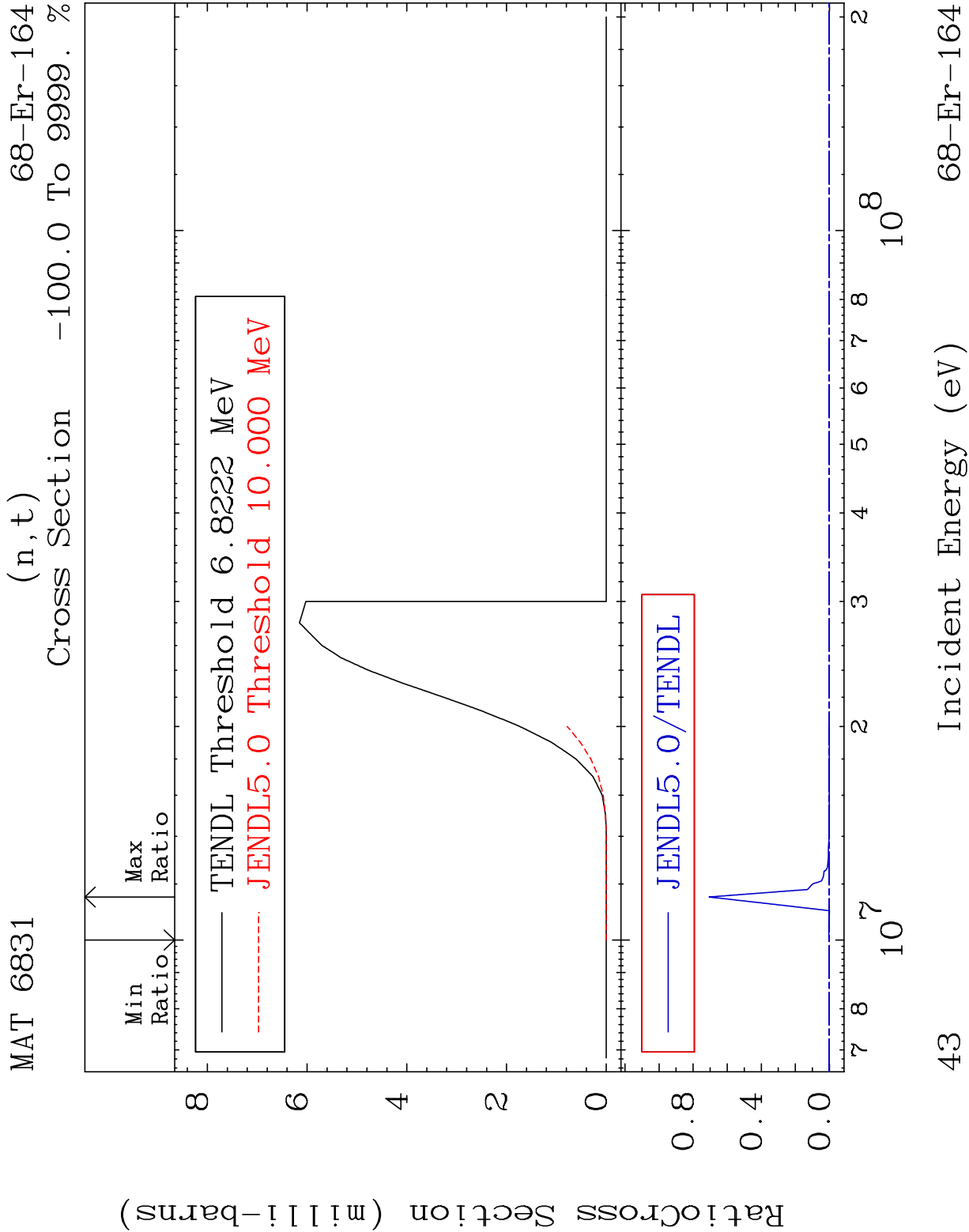


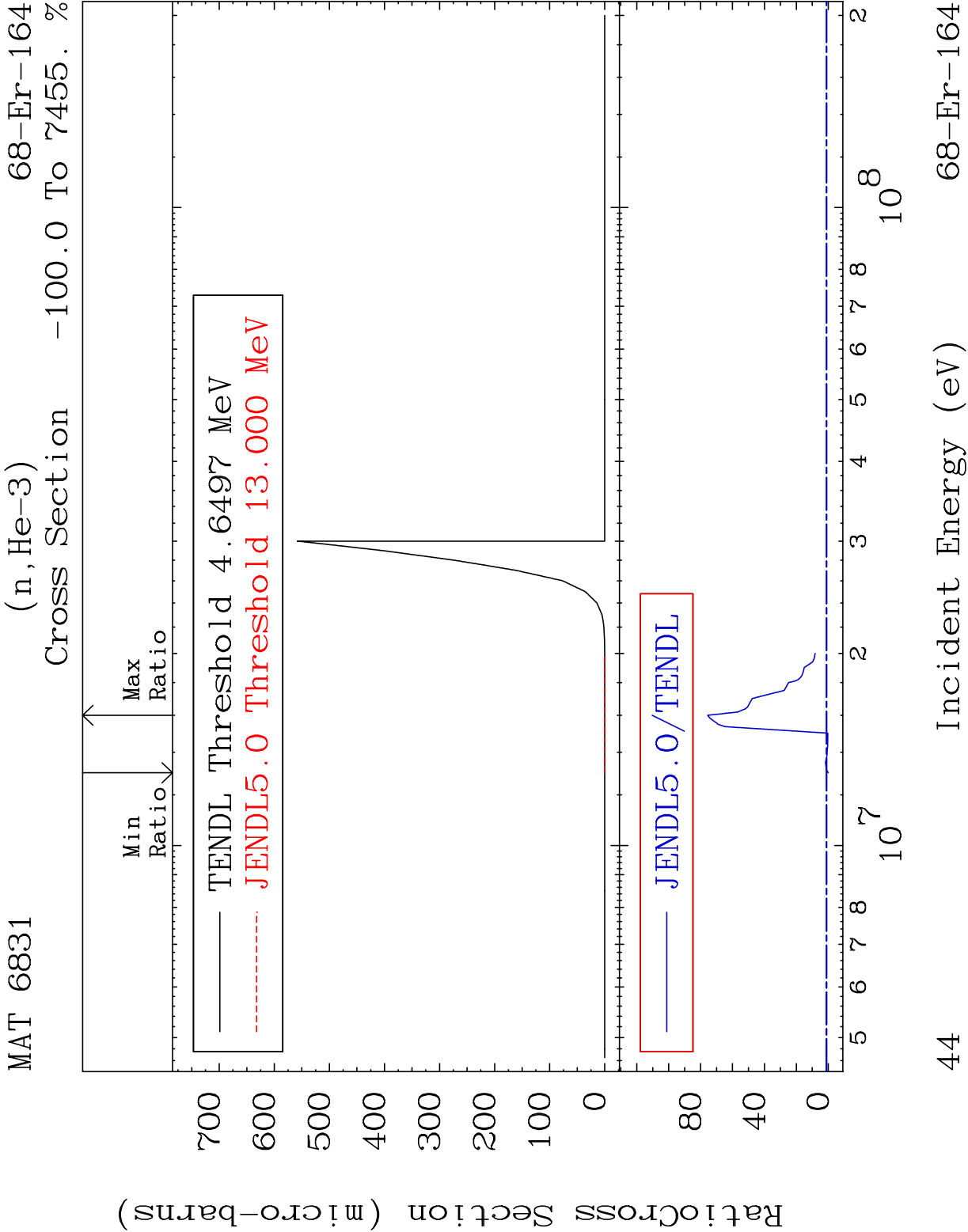
MAT 6831

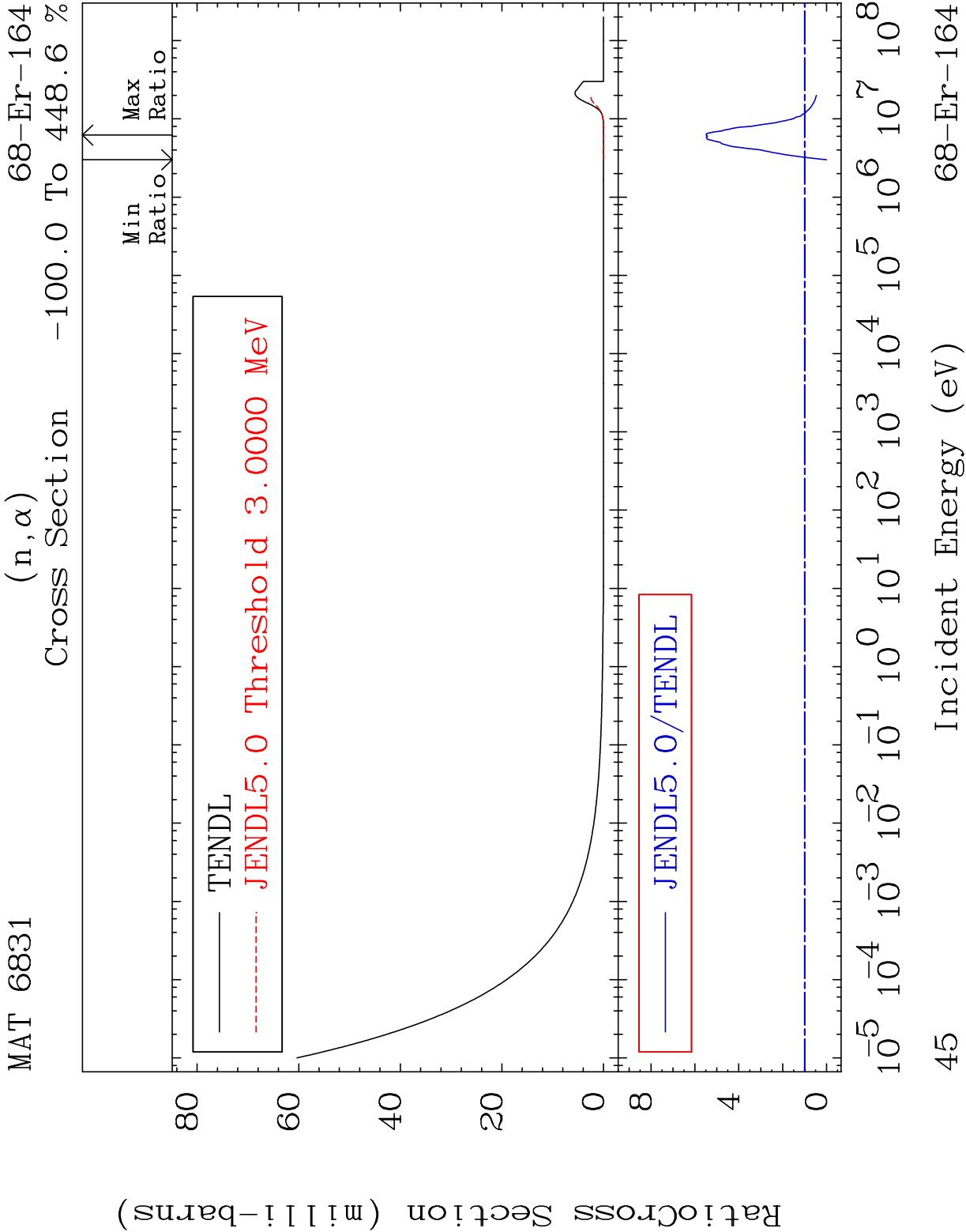
 (n, d) ⁶⁸Er-164

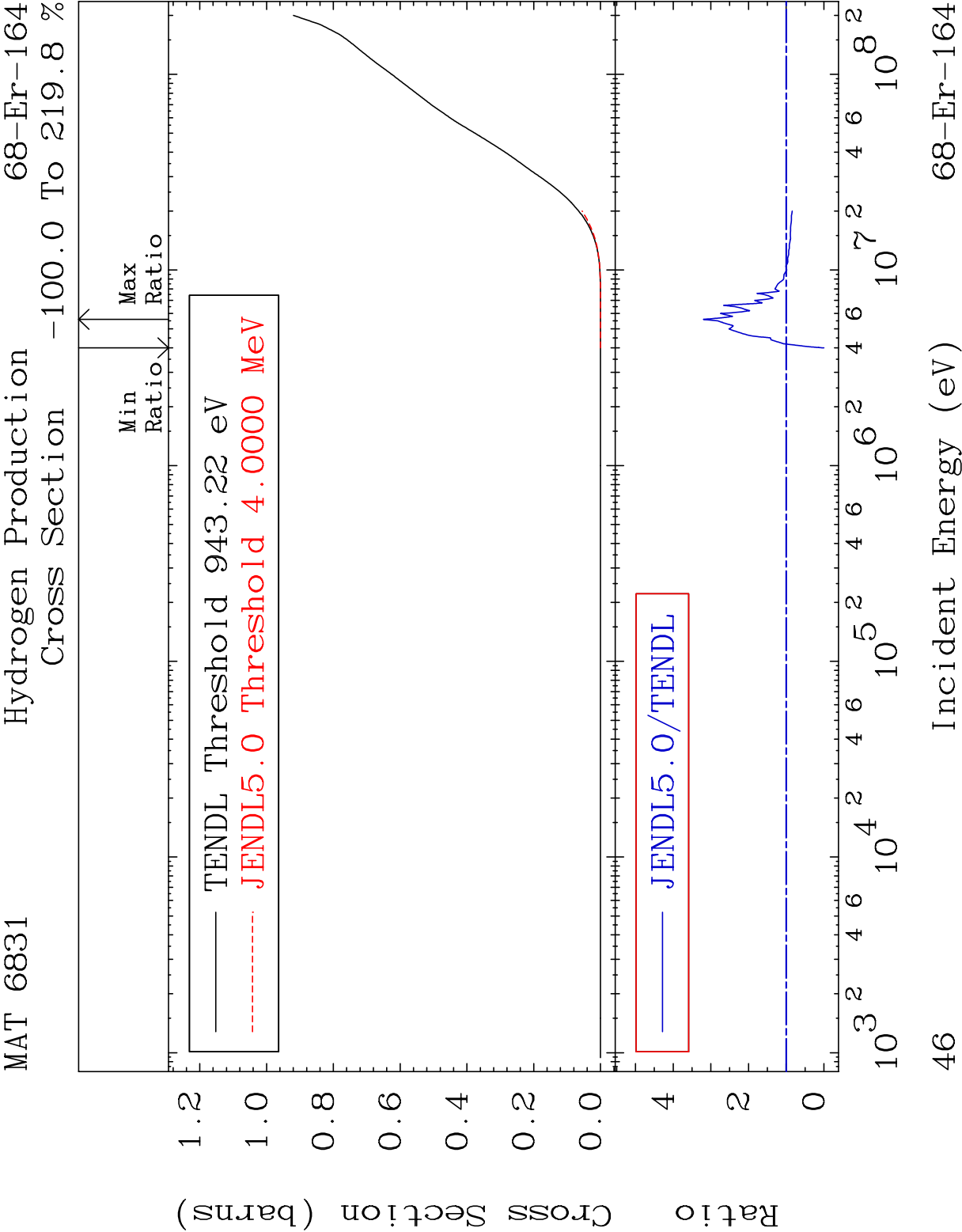
Cross Section -100.0 To 3806. %

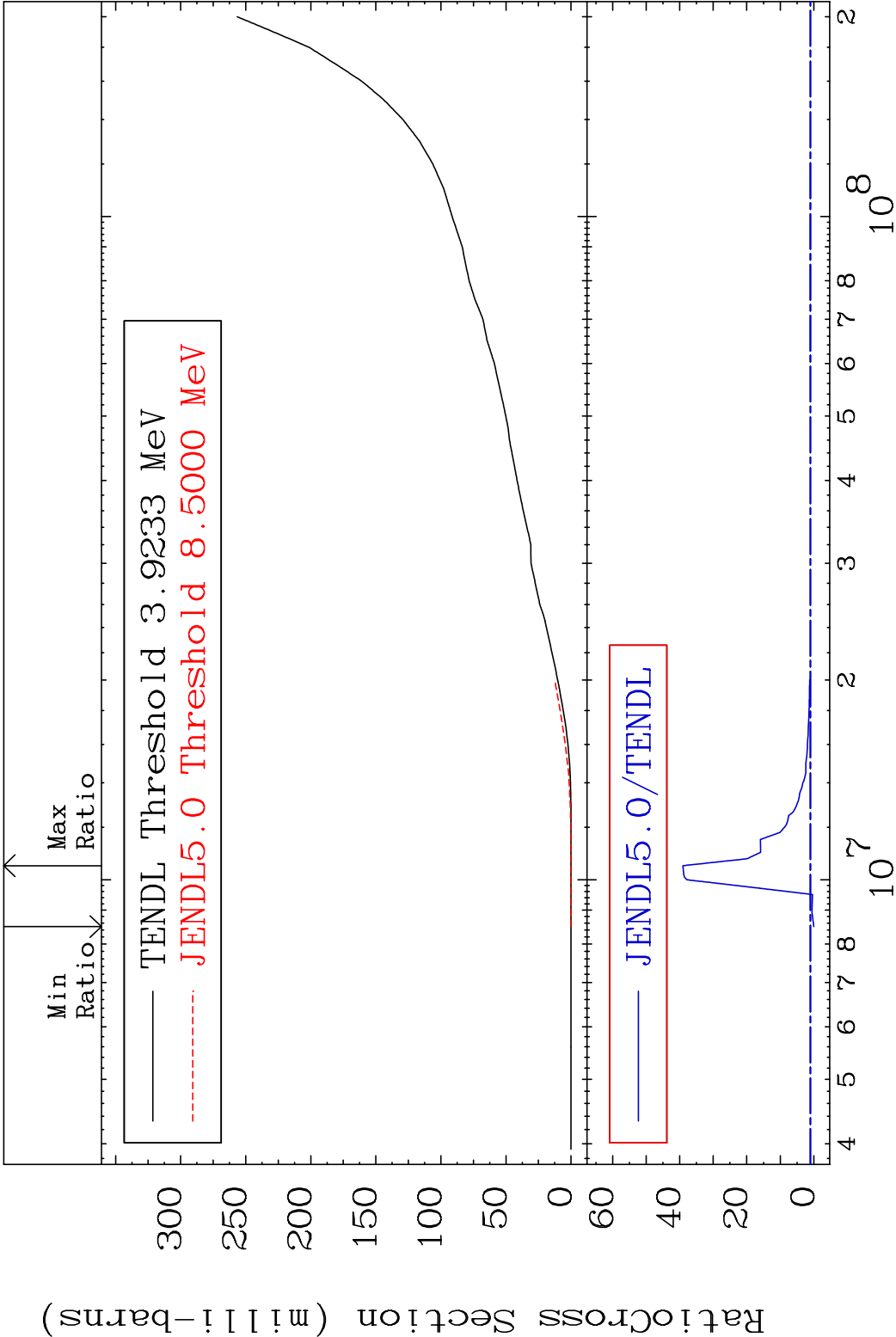


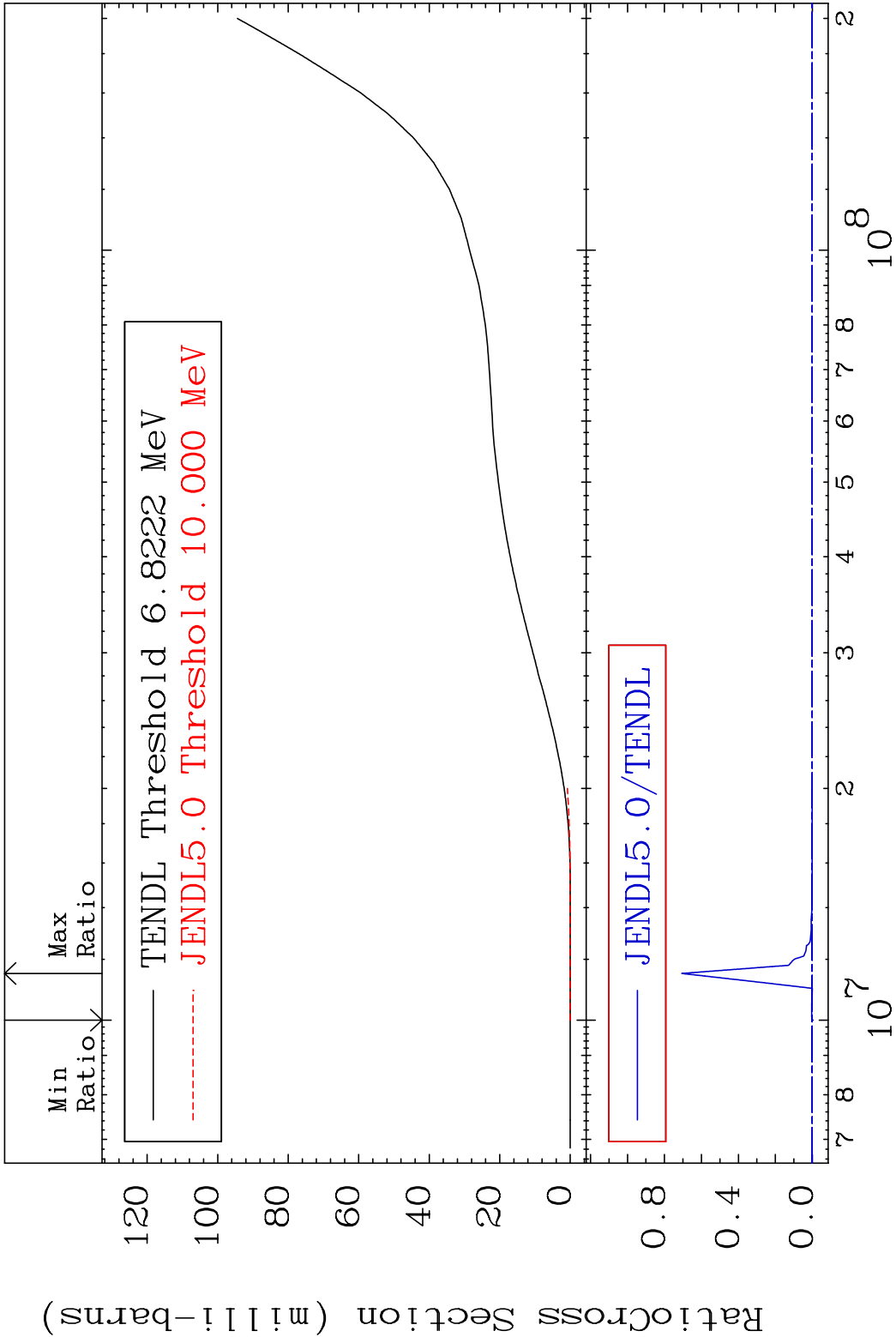


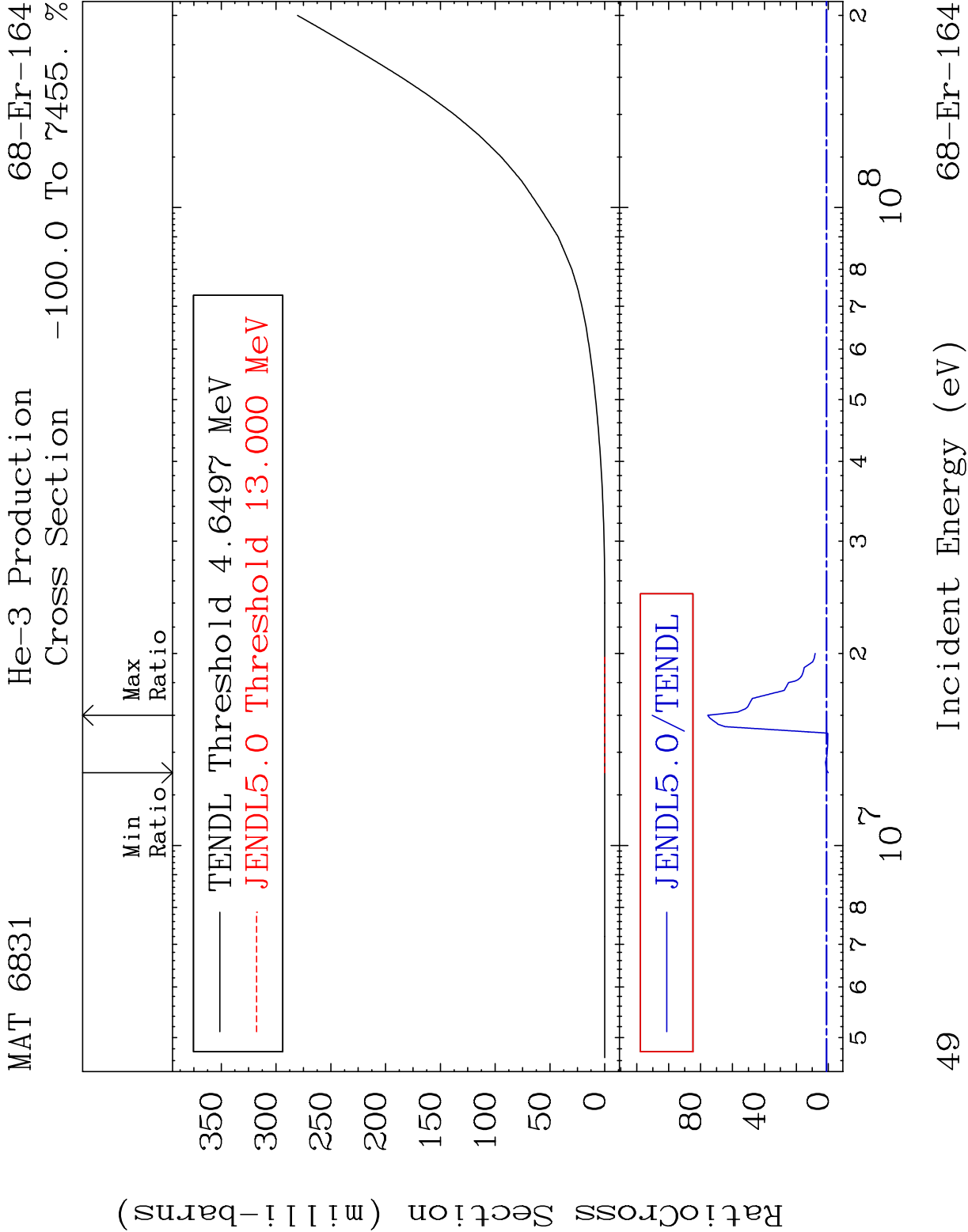


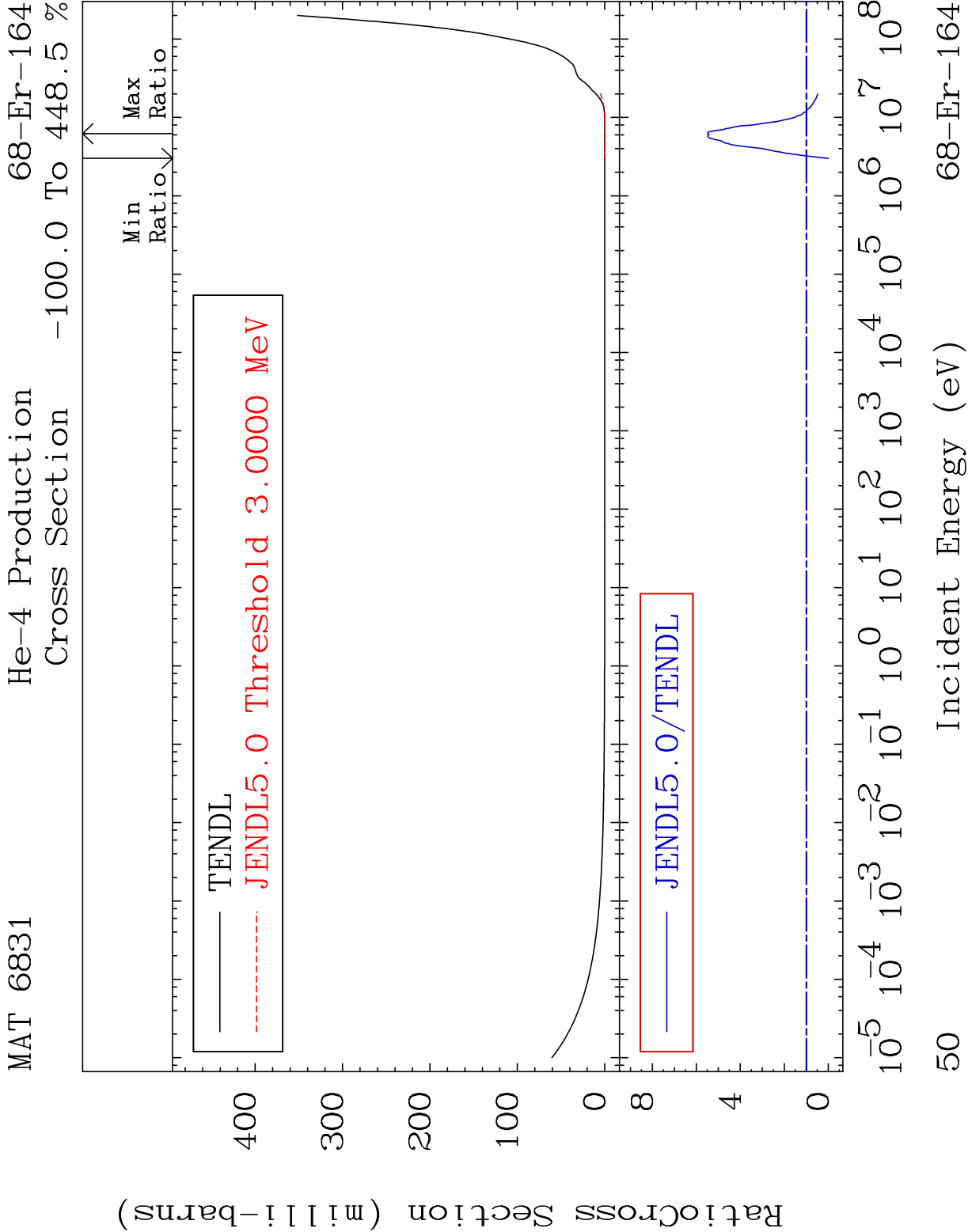


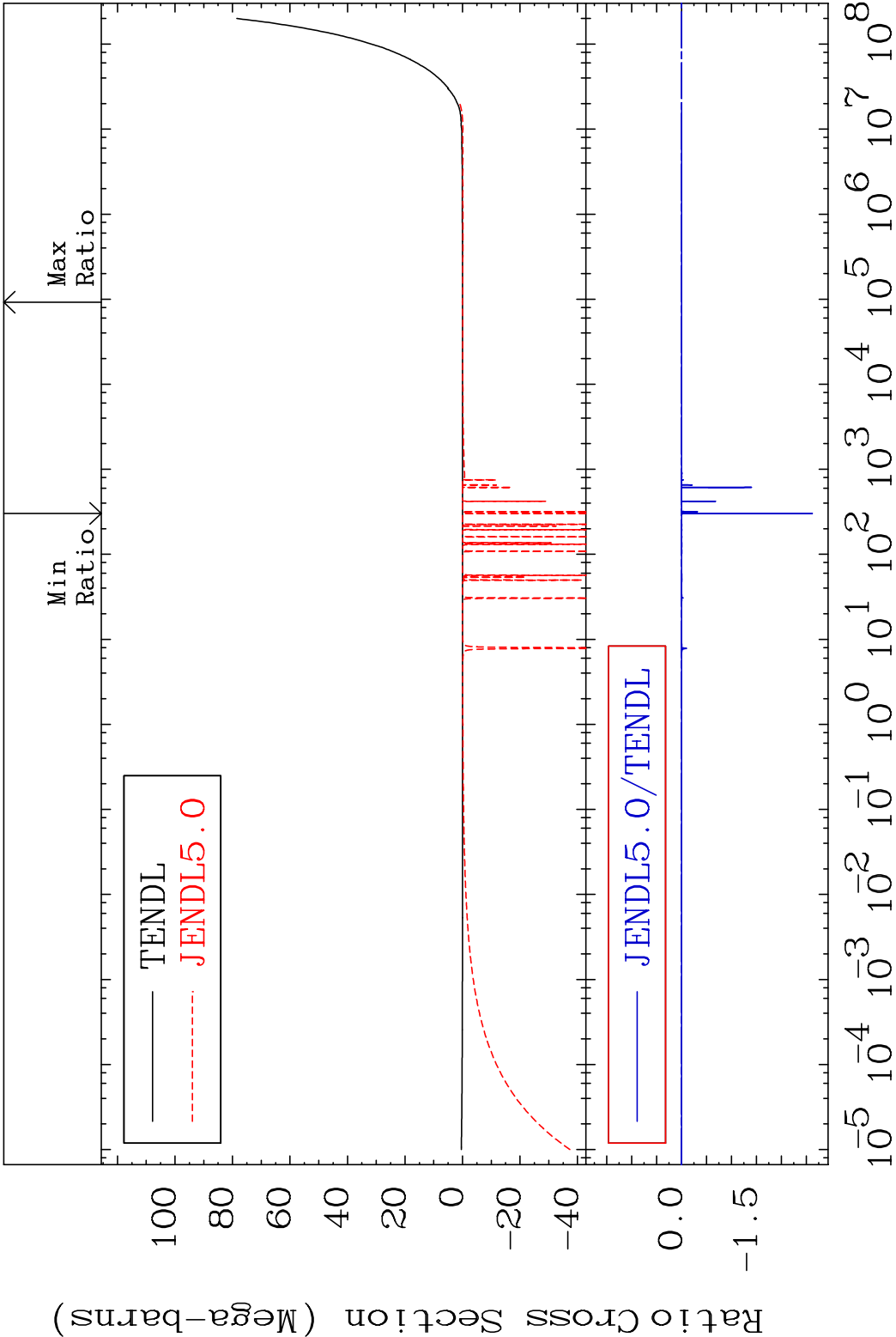


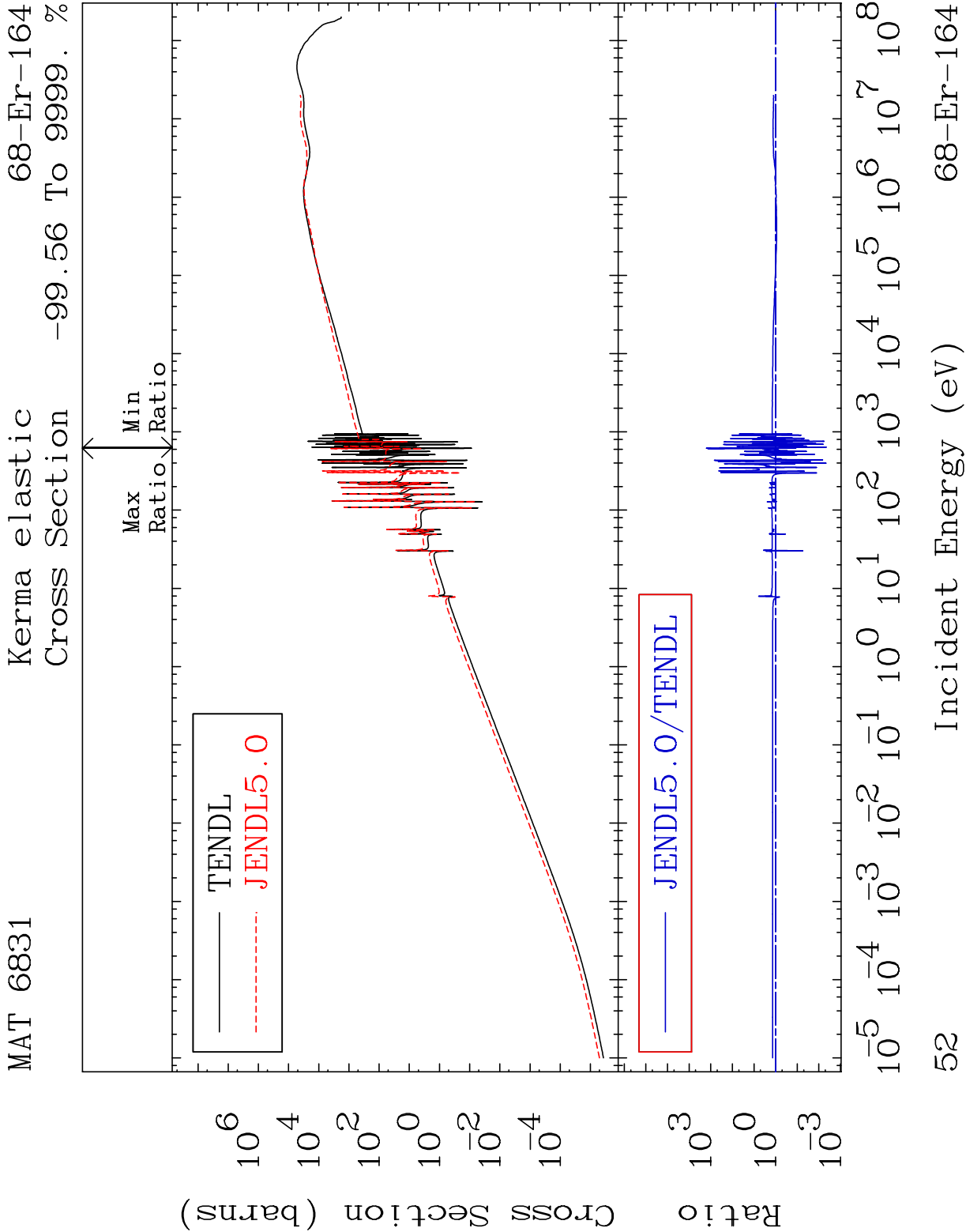




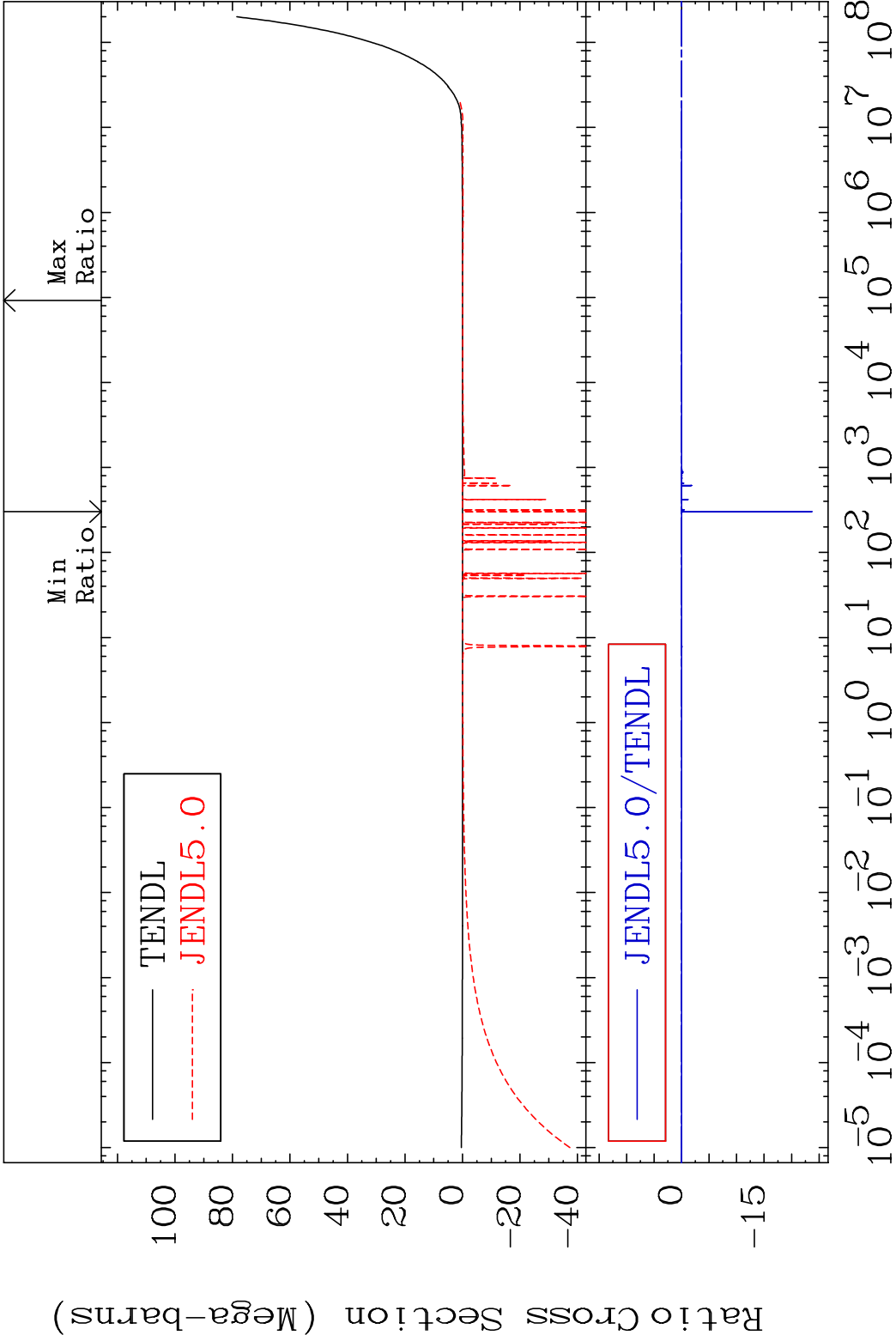




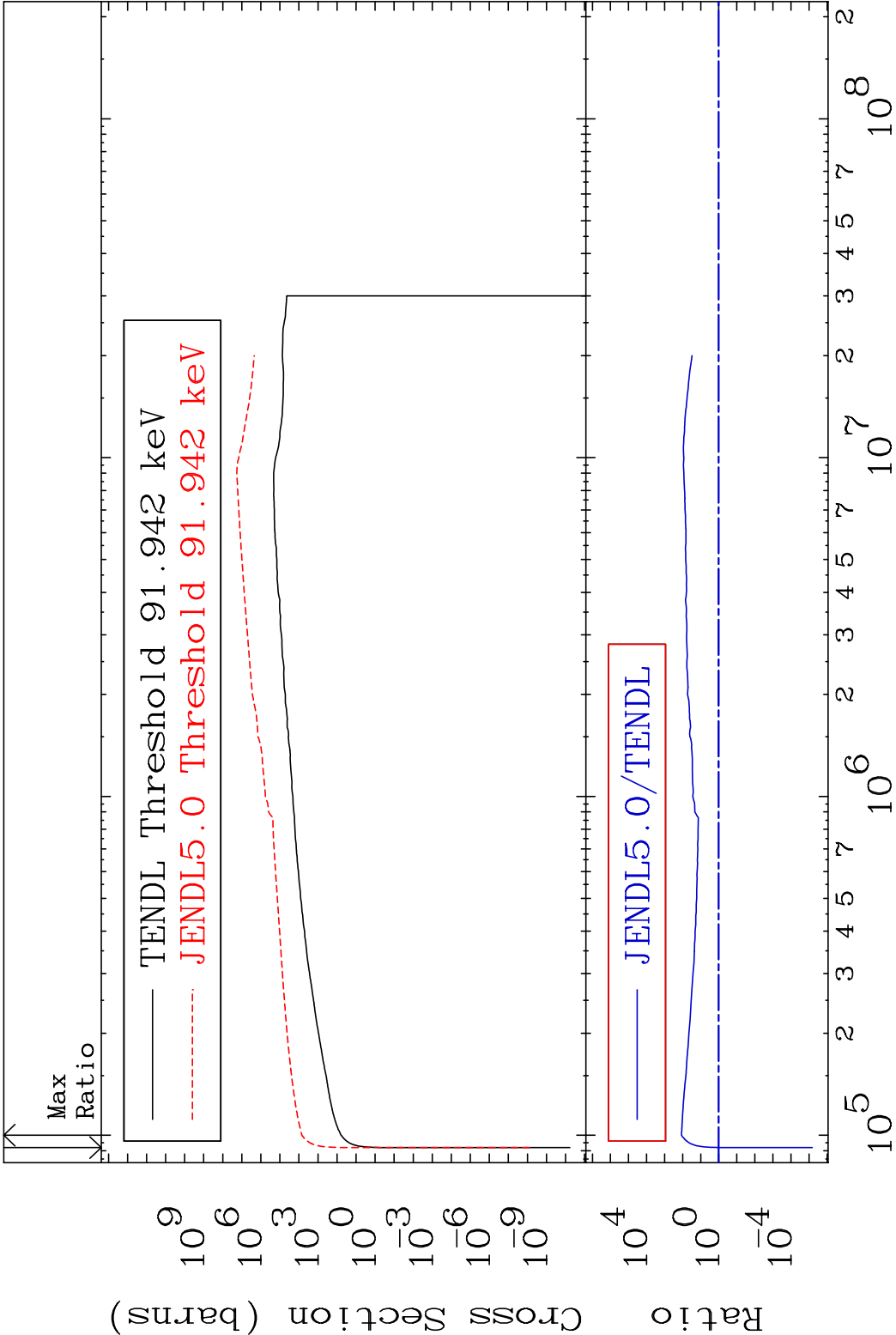




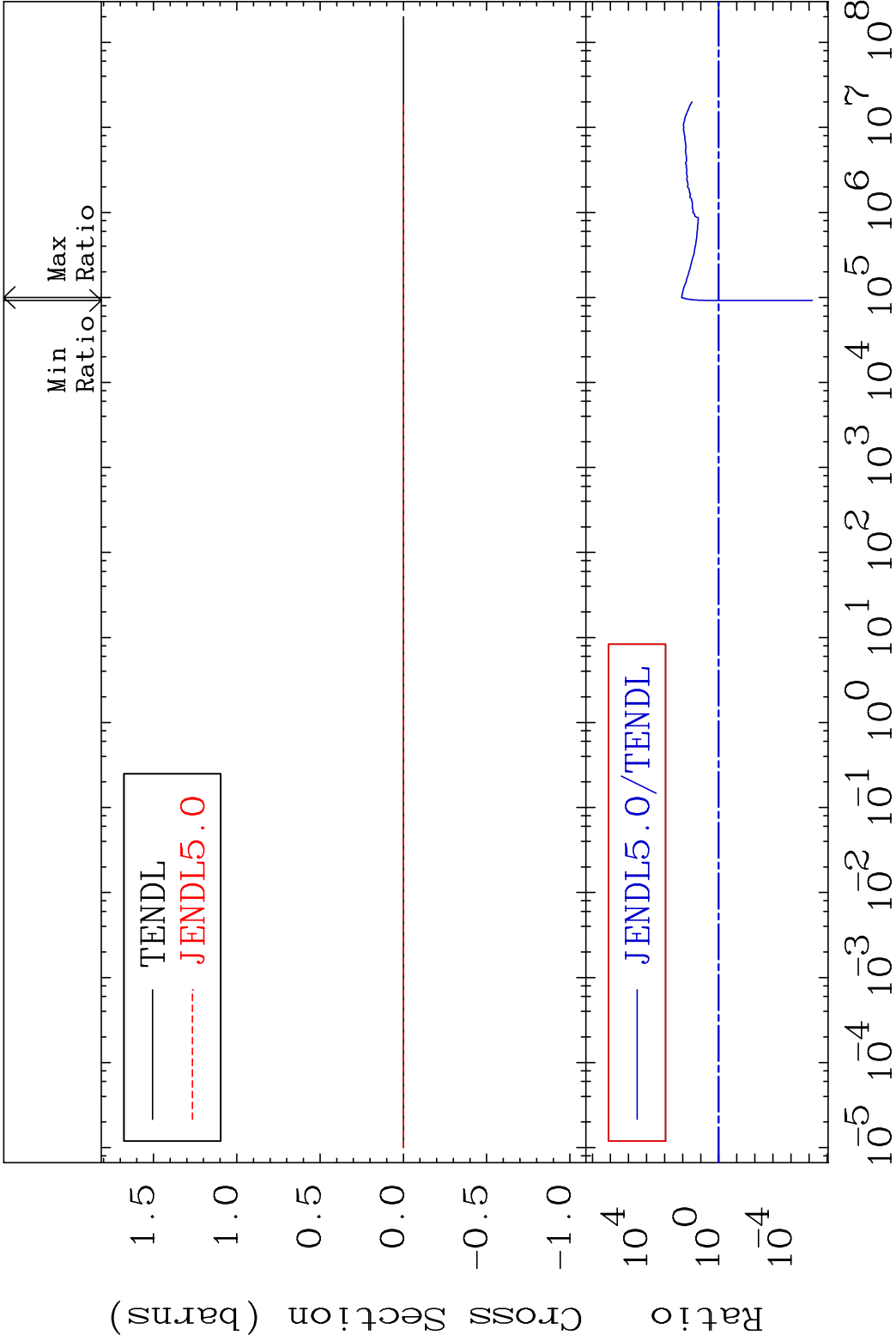
MAT 6831 Kerma non-elastic (all but mt2) 68-Er-164
Cross Section -9999. To 9999. %

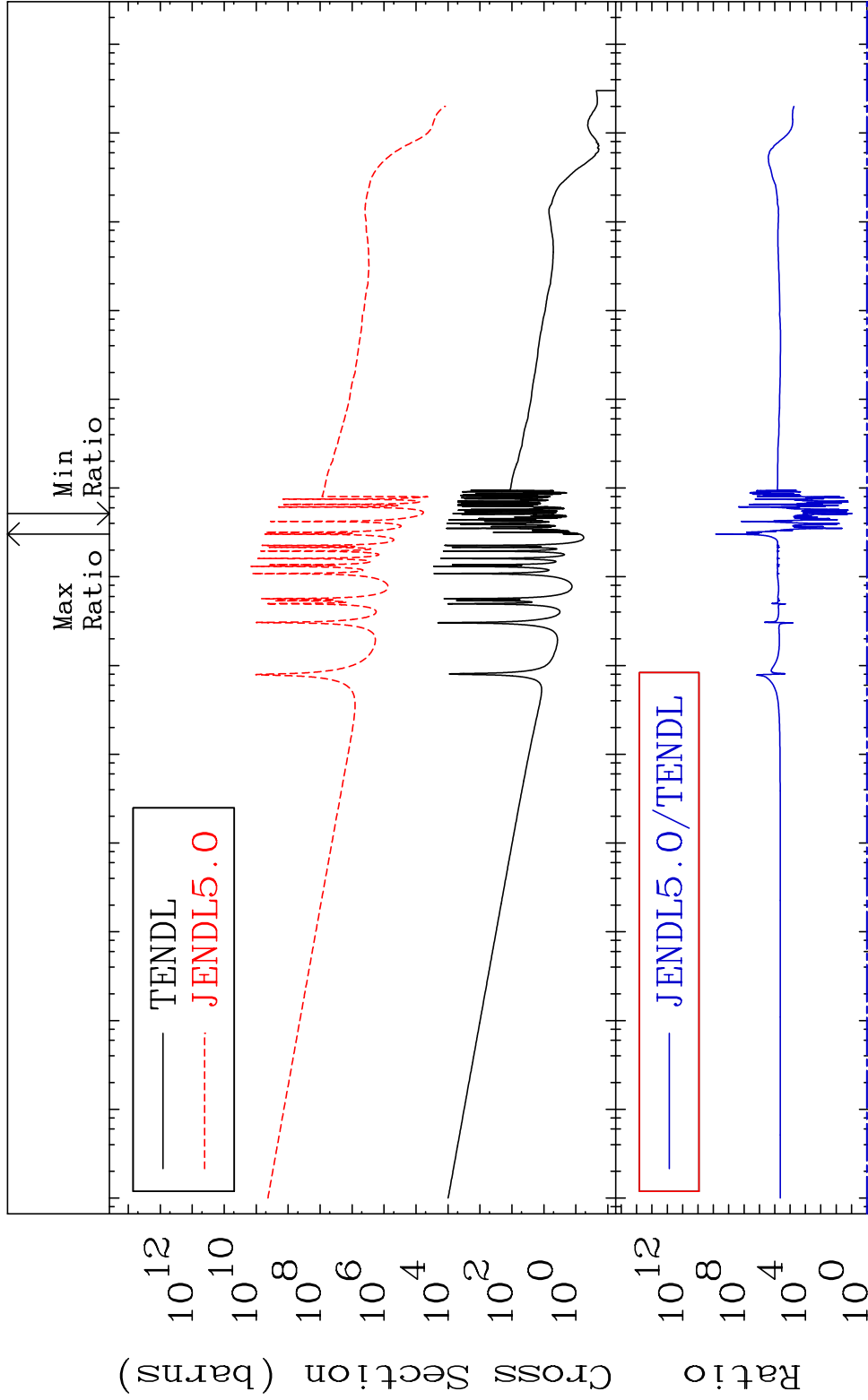


53 Incident Energy (eV) 68-Er-164

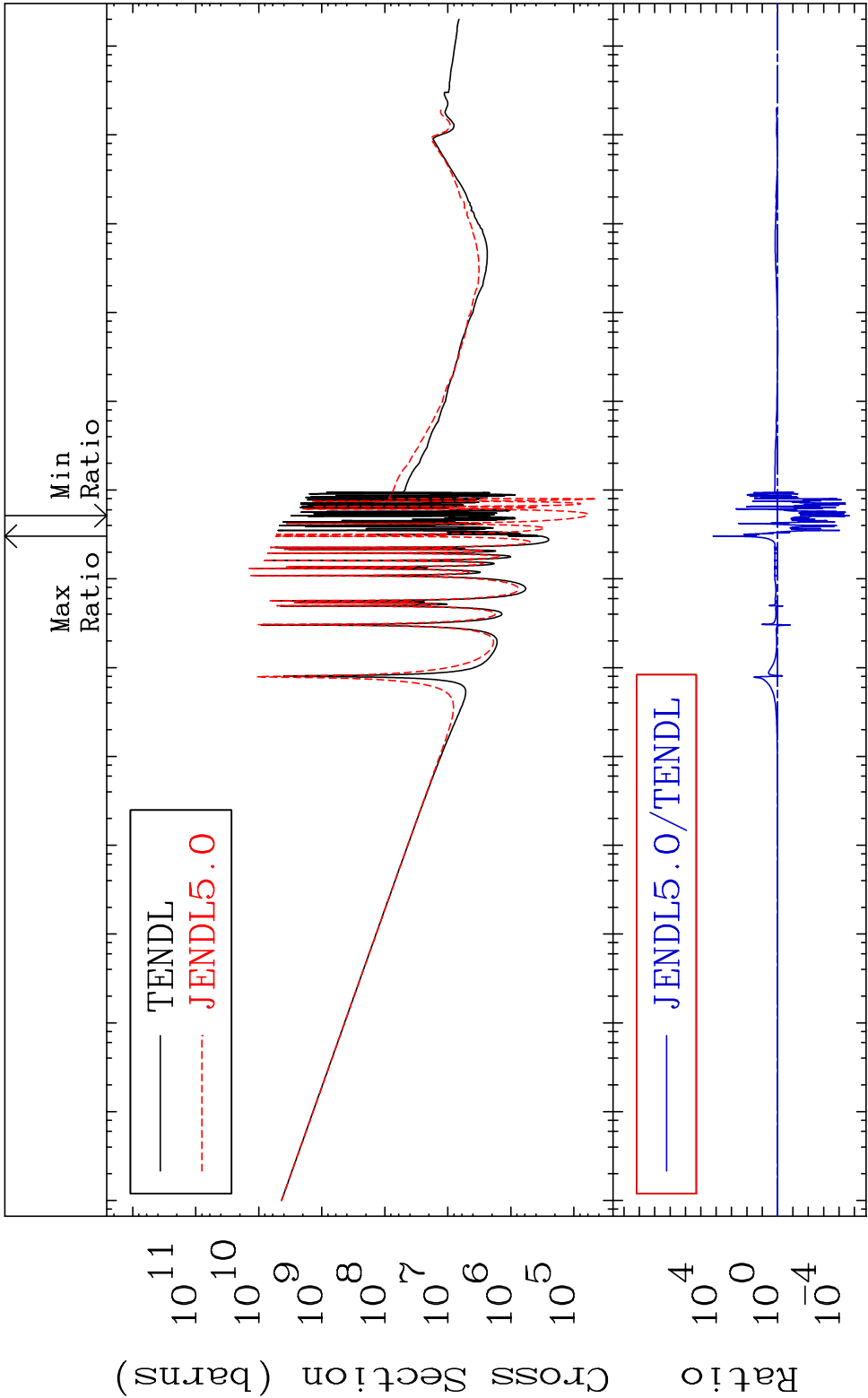


MAT 6831 Kerma fission (mt18 or mt19-20-21-38)68-Er-164
Cross Section -100.0 To 9999. %

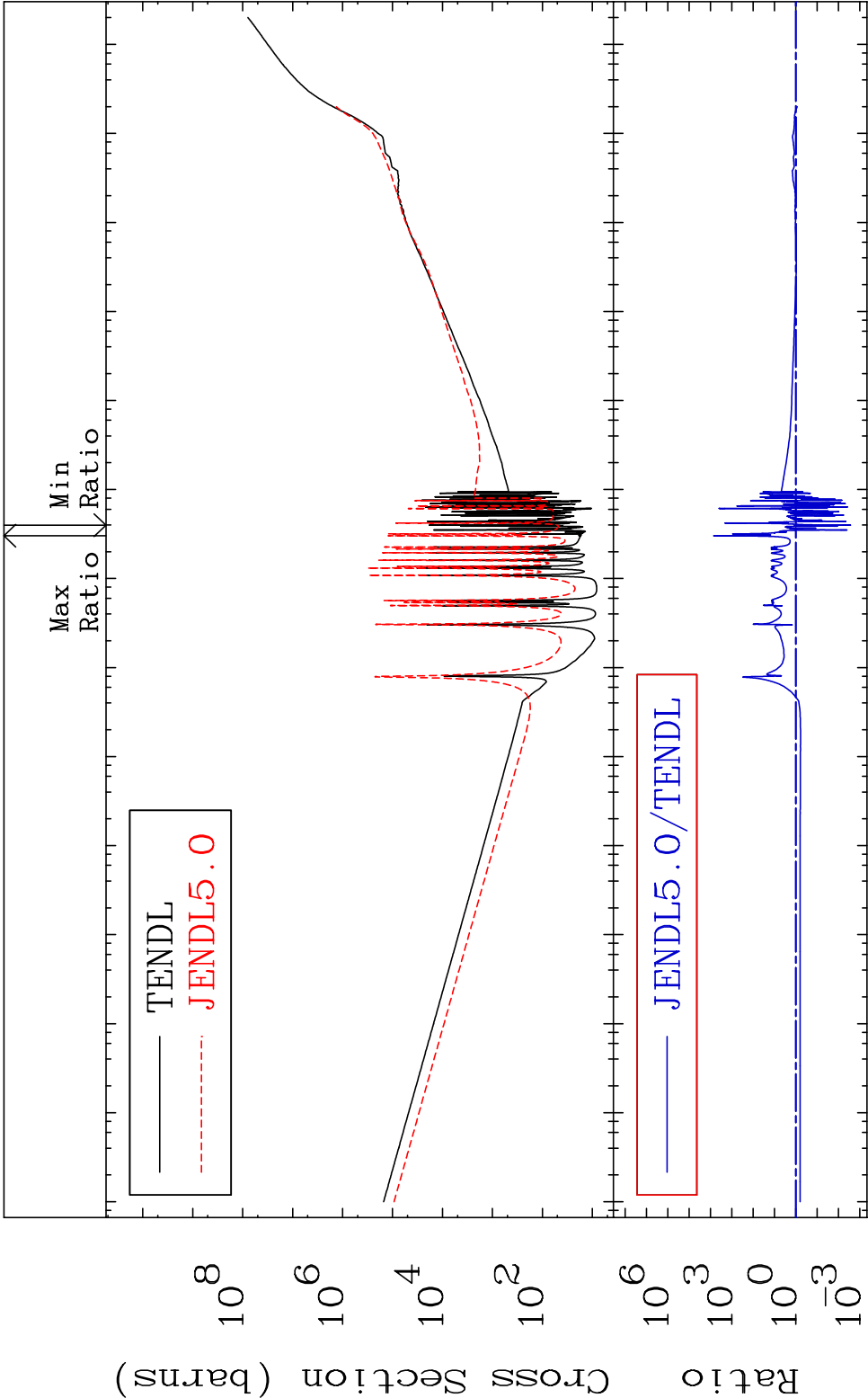




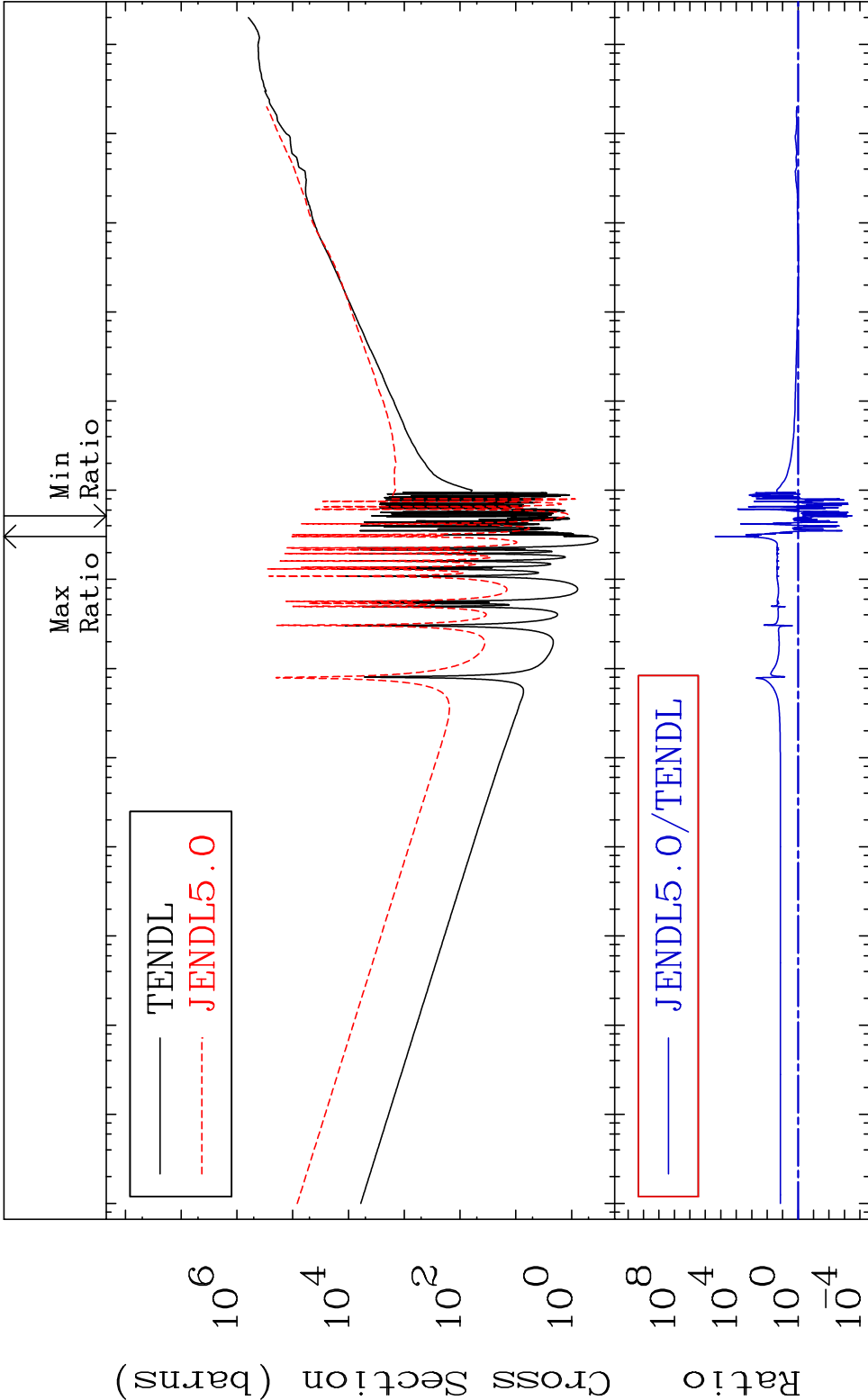
MAT 6831 Total photon (eV-barns) 68-Er-164
Cross Section -100.0 To 9999. %



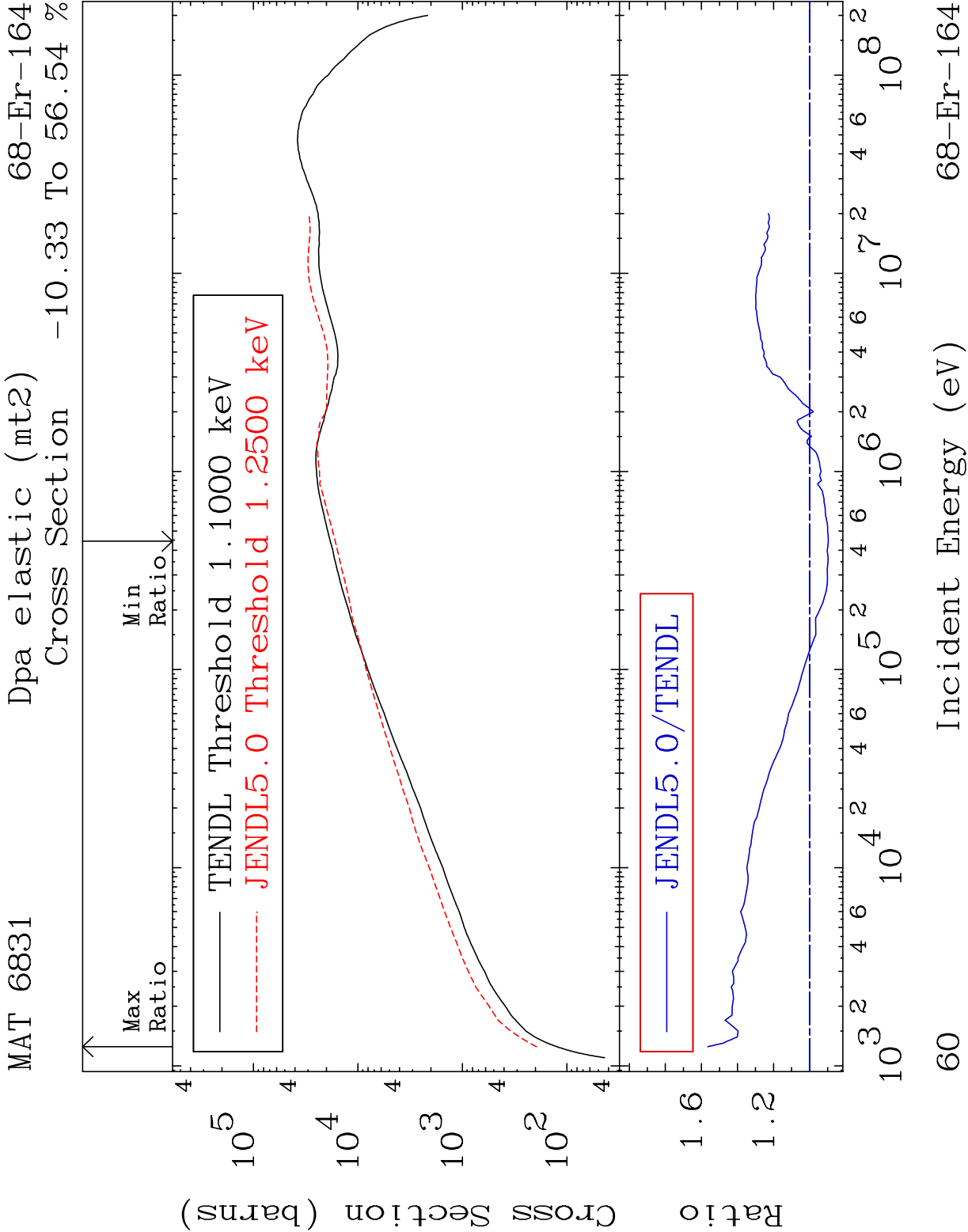
MAT 6831 Total kinematic kerma (high limit) 68-Er-164
Cross Section -99.73 To 9999. %



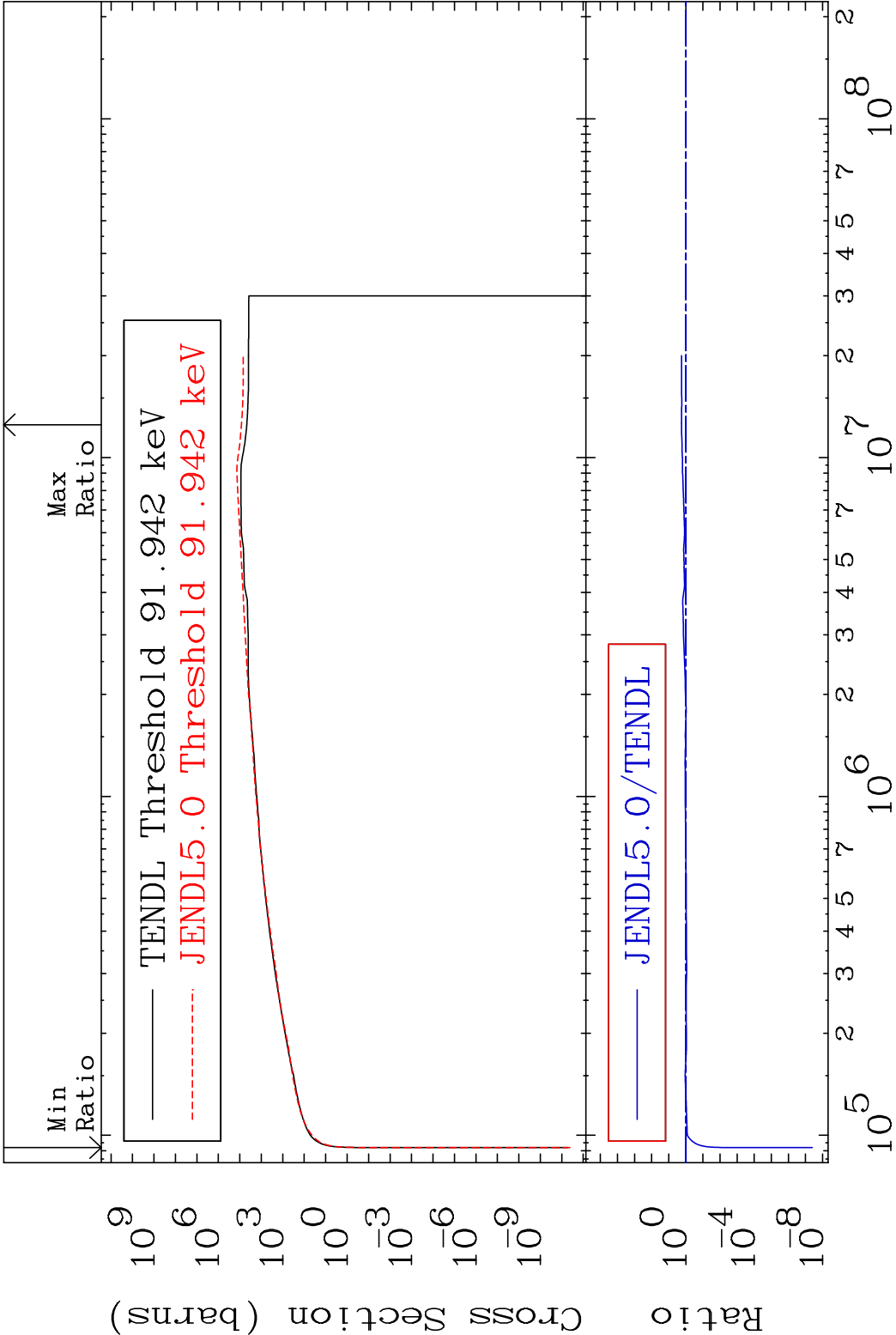
MAT 6831 Dpa total (eV-barns) 68-Er-164
Cross Section -99.97 To 9999. %



59 Incident Energy (eV) 68-Er-164

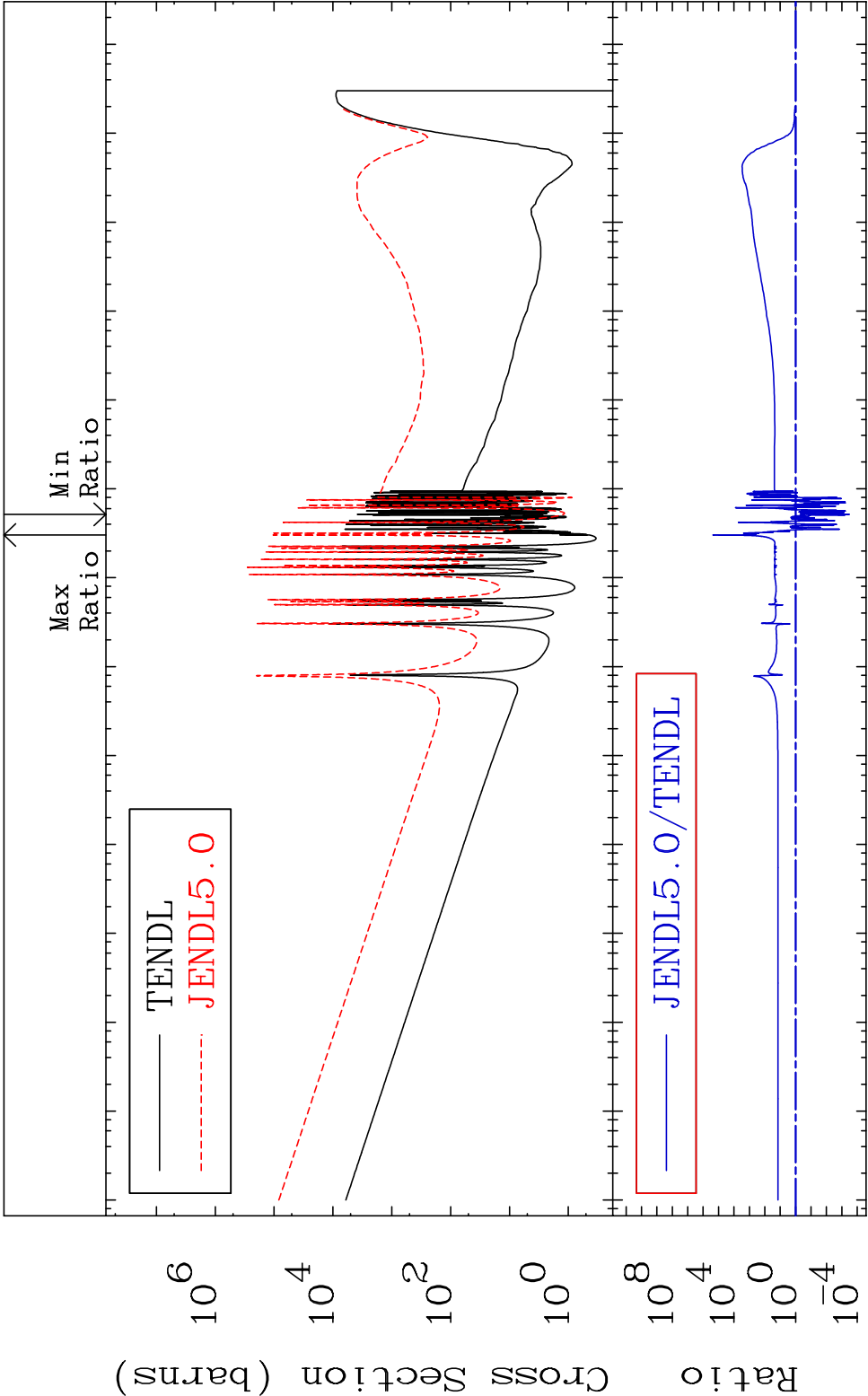


MAT 6831 Dpa inelastic (mt51-91) 68-Er-164
Cross Section -100.0 To 78.42 %

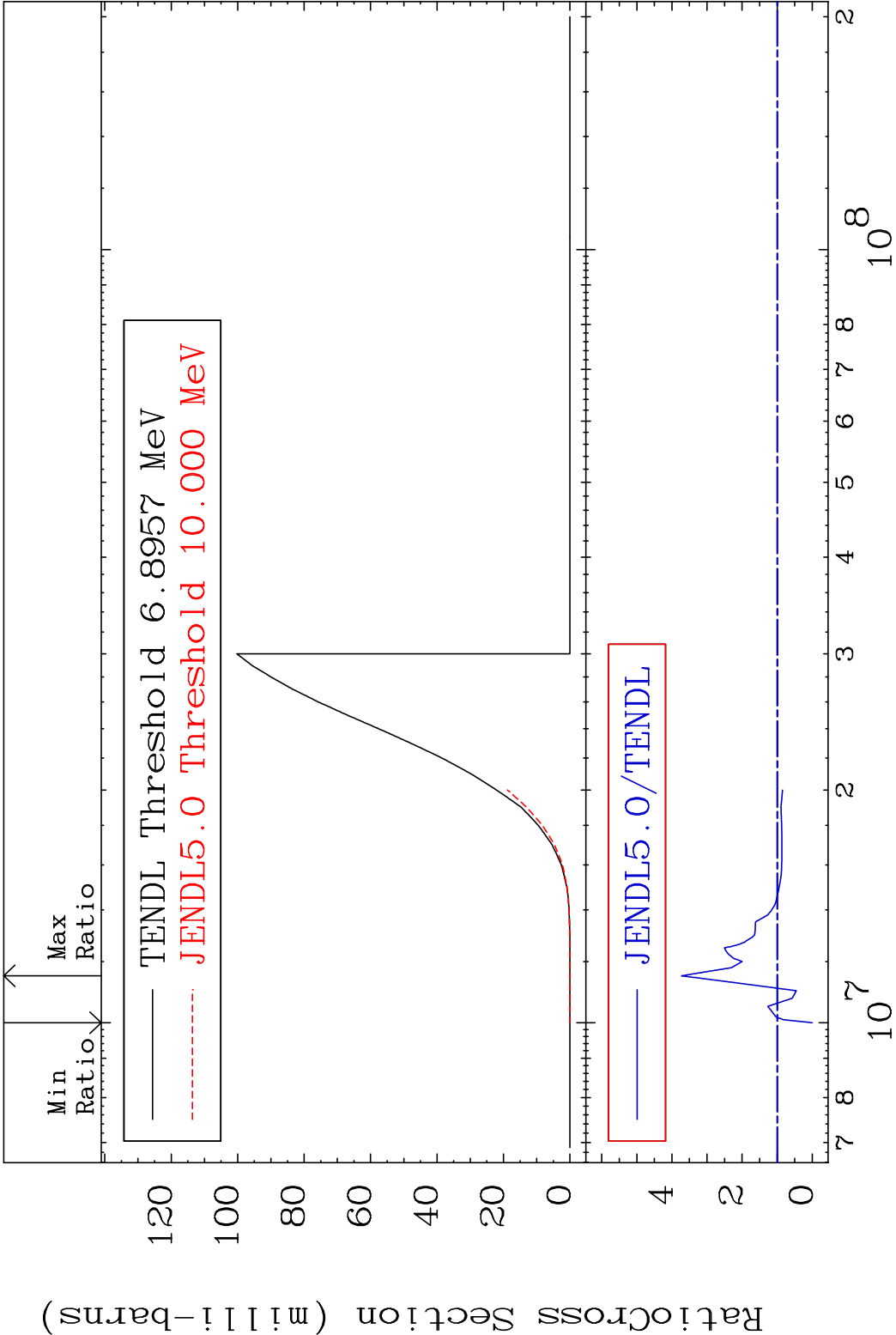


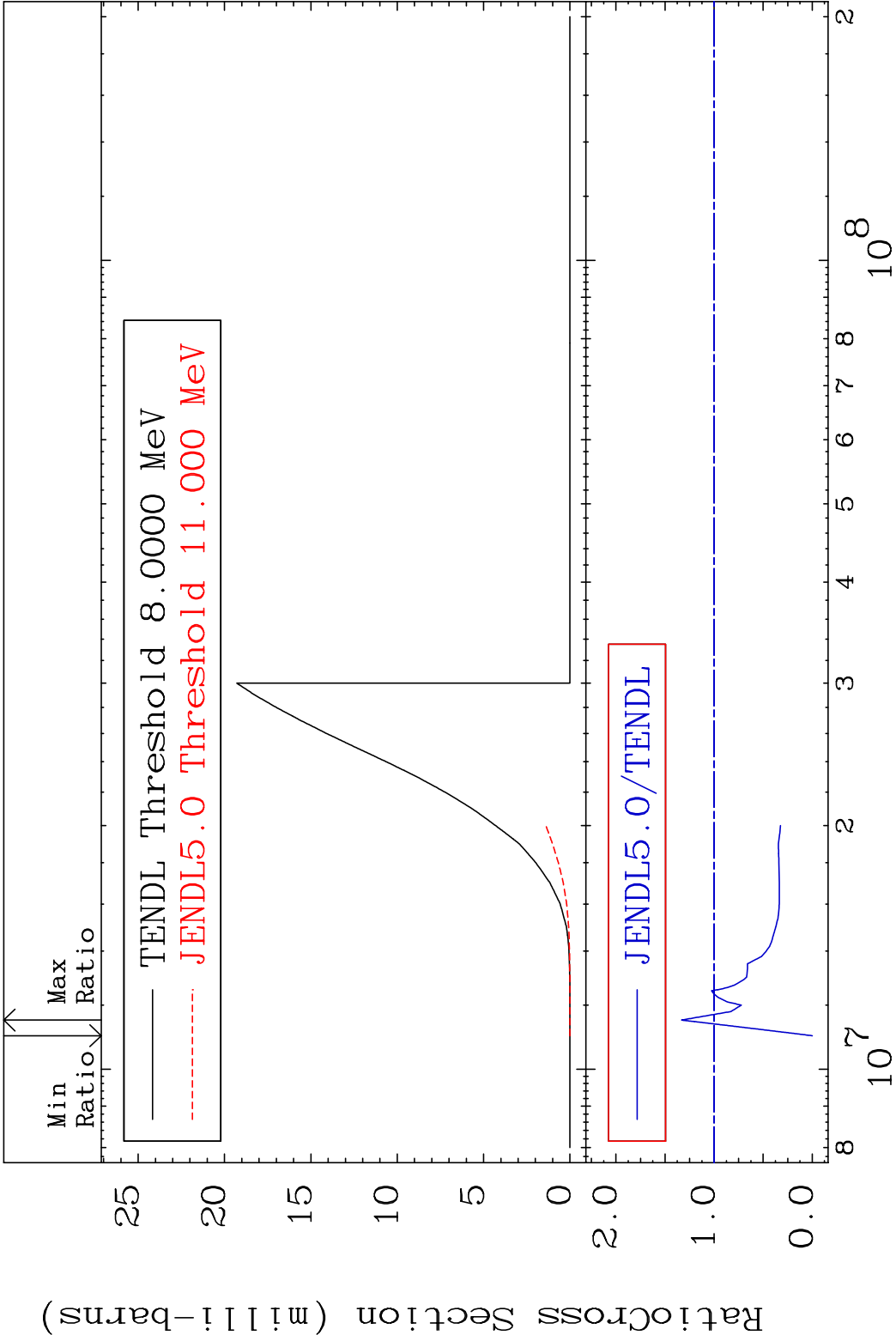
61 Incident Energy (eV) 68-Er-164

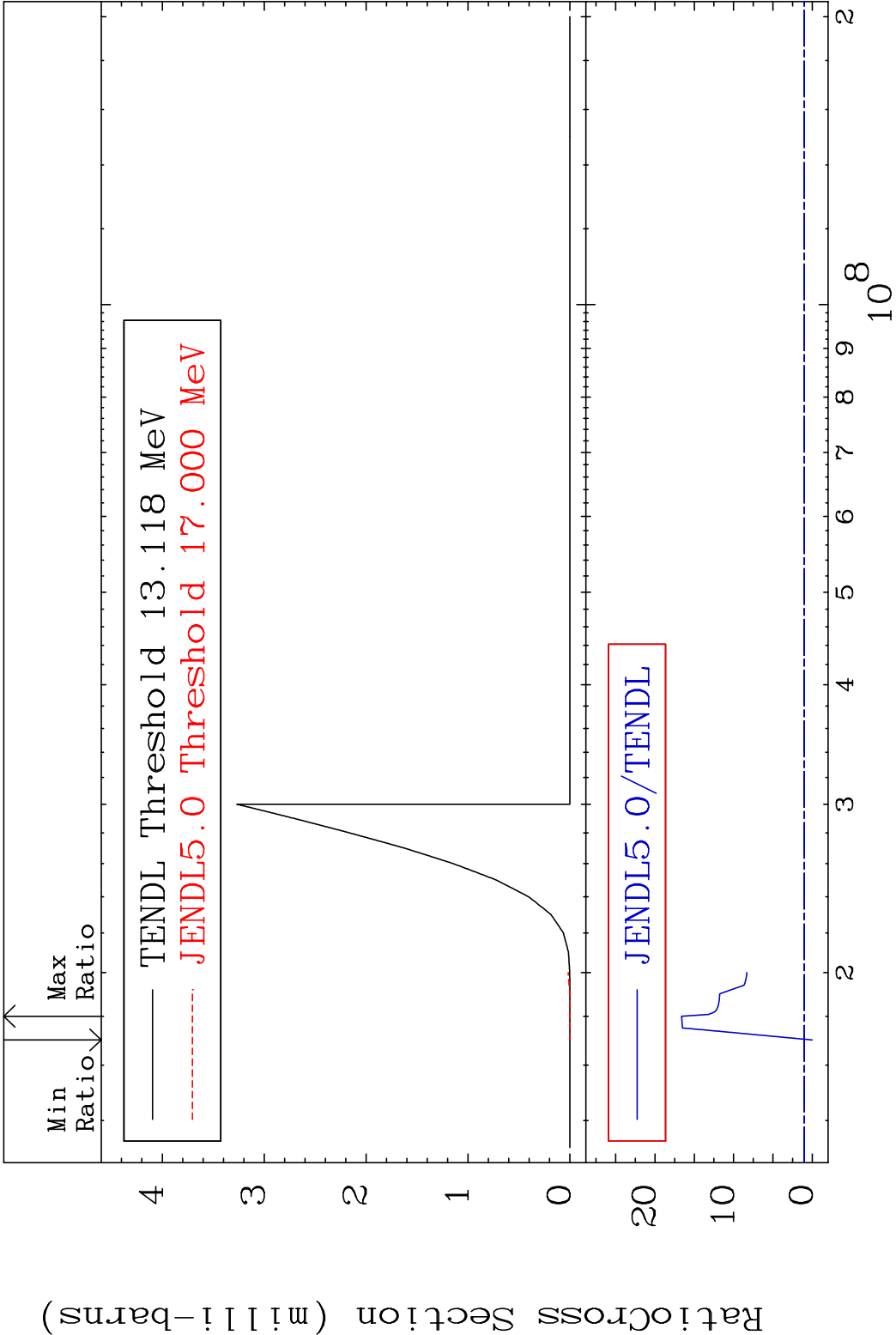
MAT 6831 Dpa disappearance (mt102 -120) 68-Er-164
Cross Section -99.97 To 9999. %

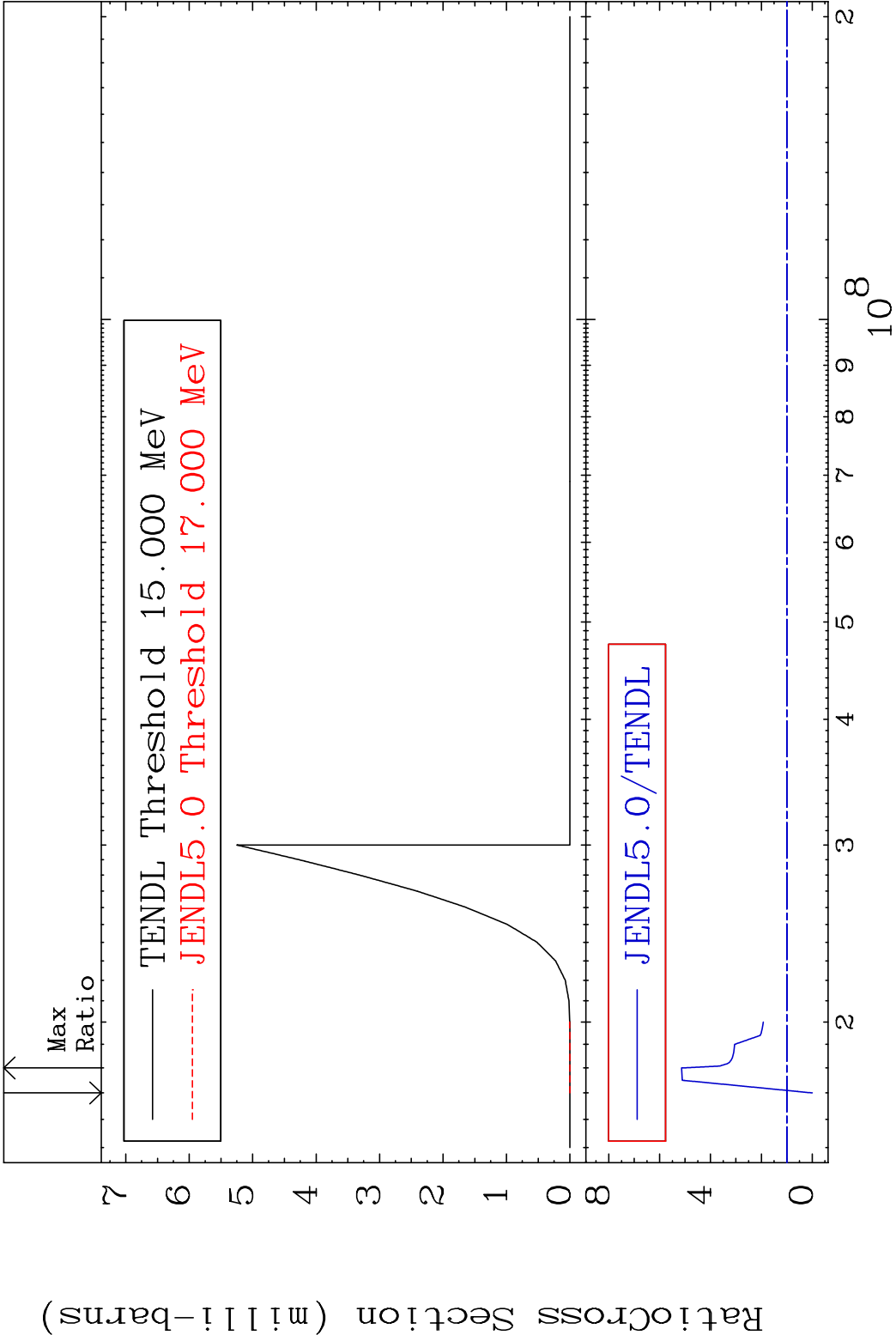


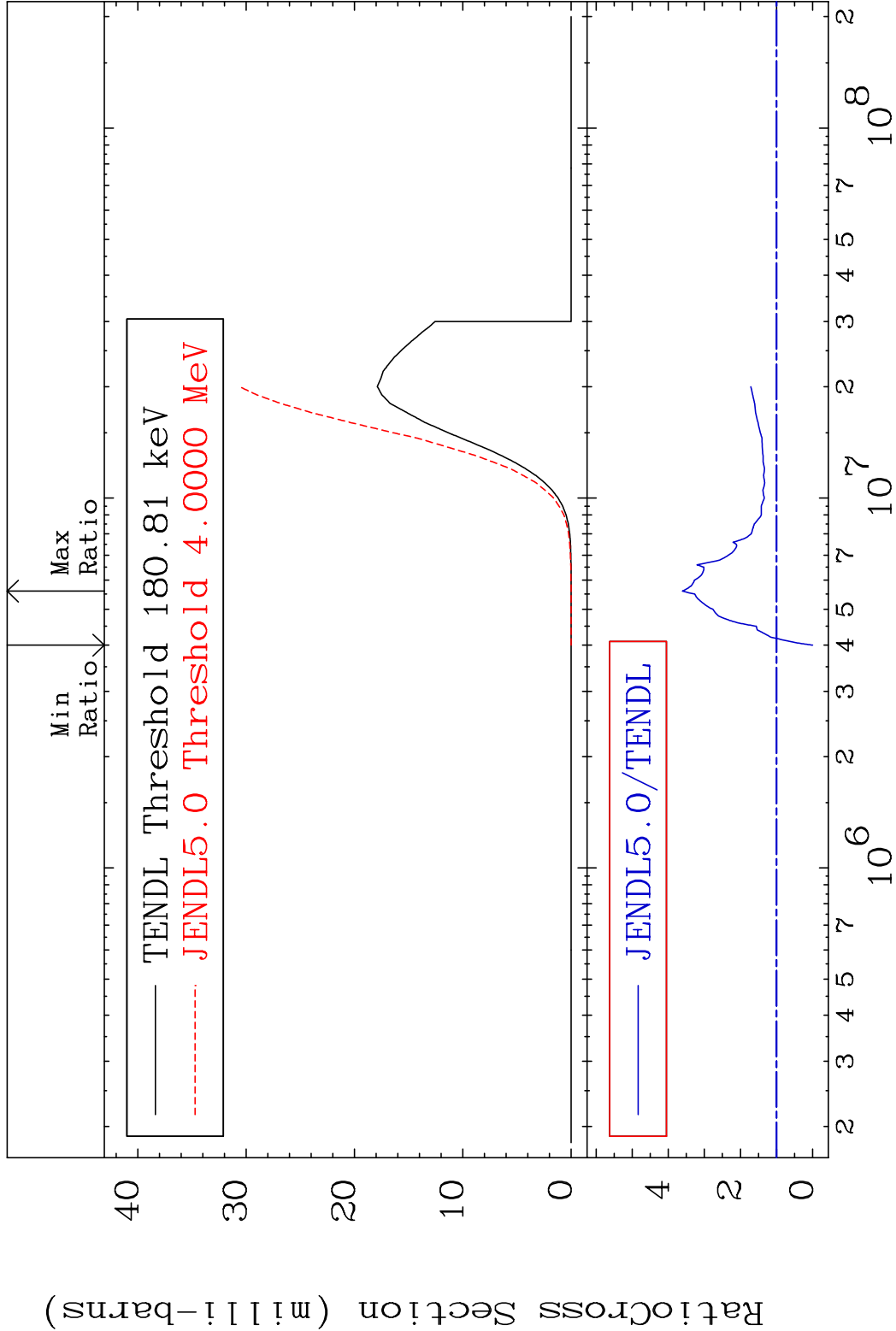
62 Incident Energy (eV) 68-Er-164

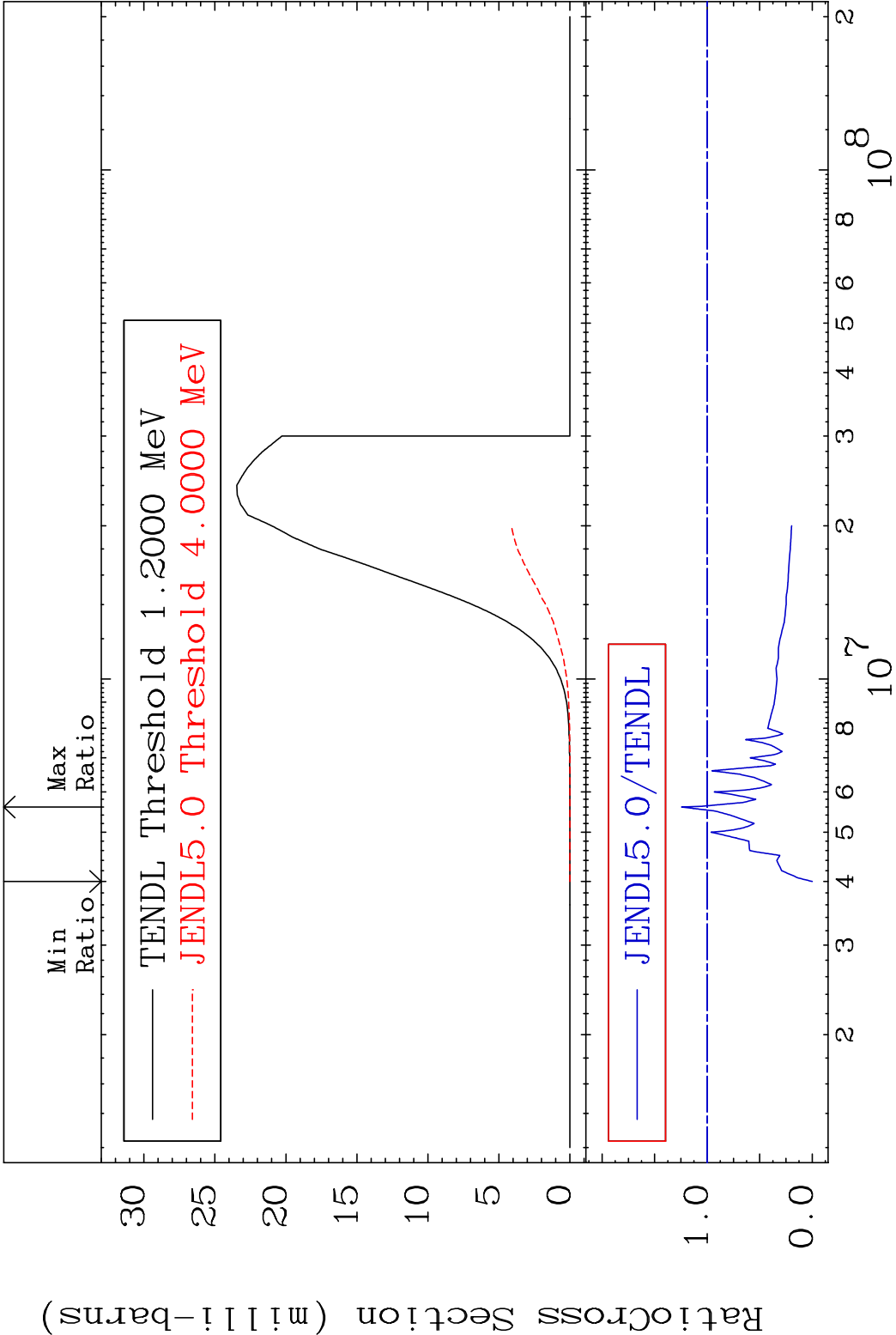


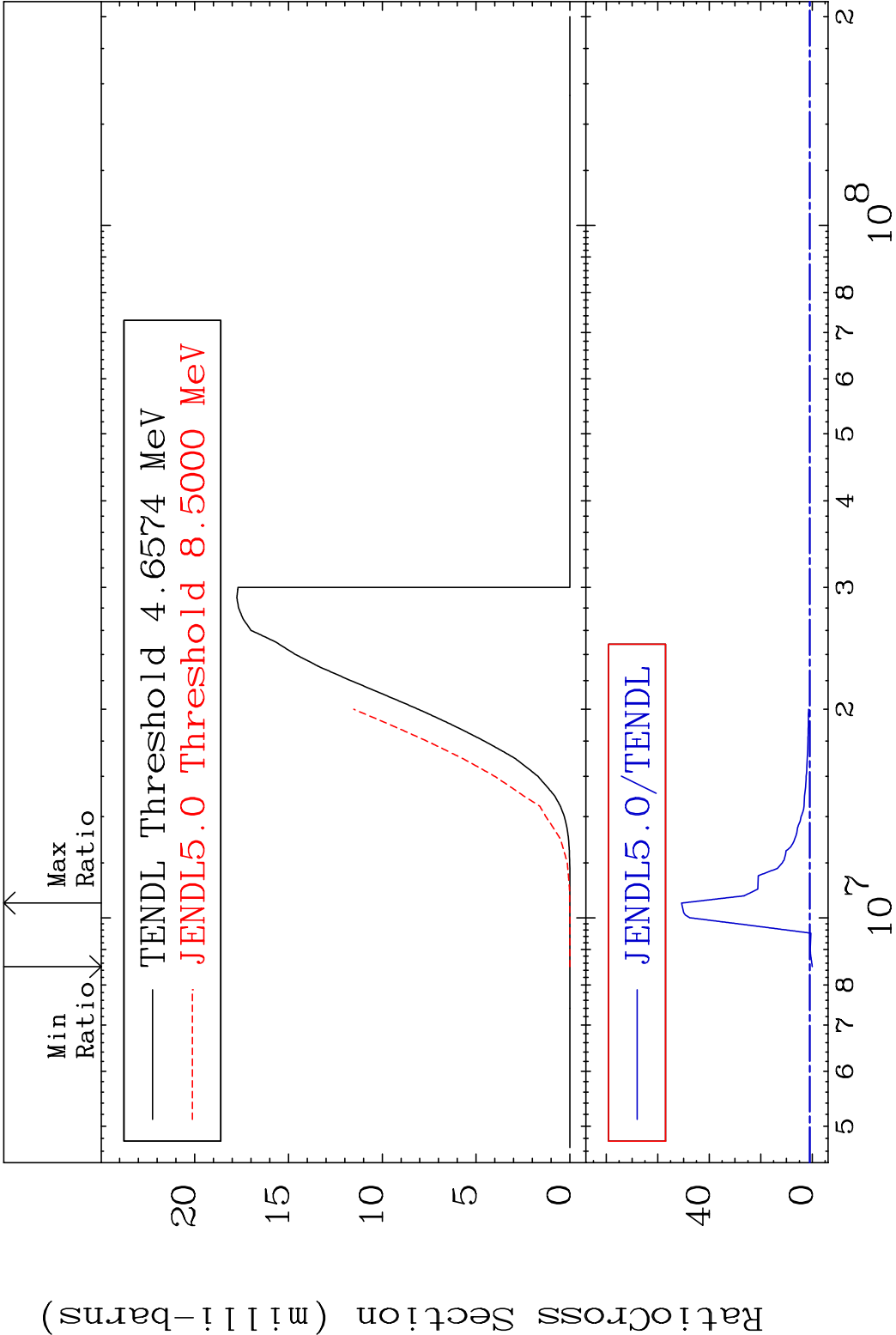


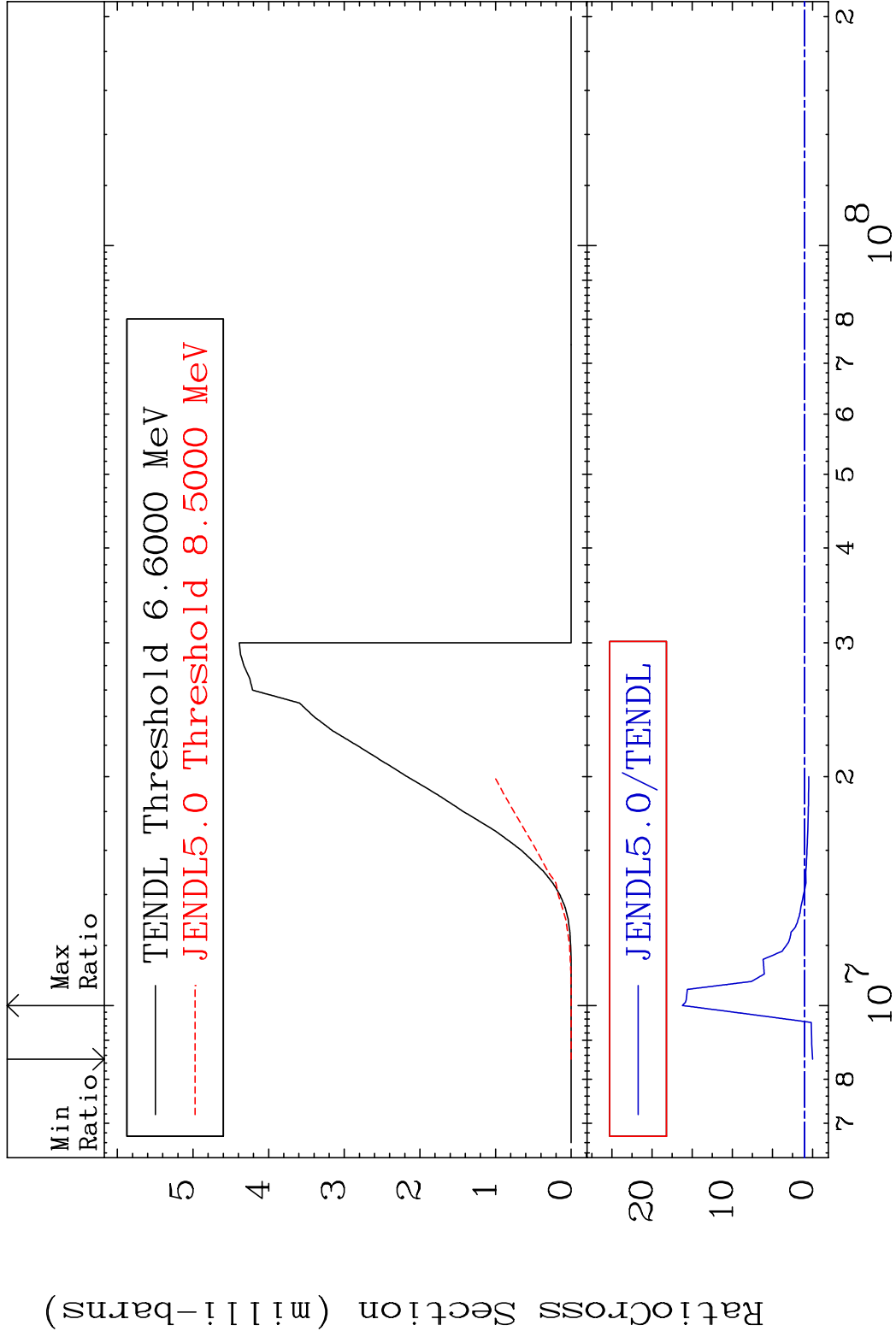




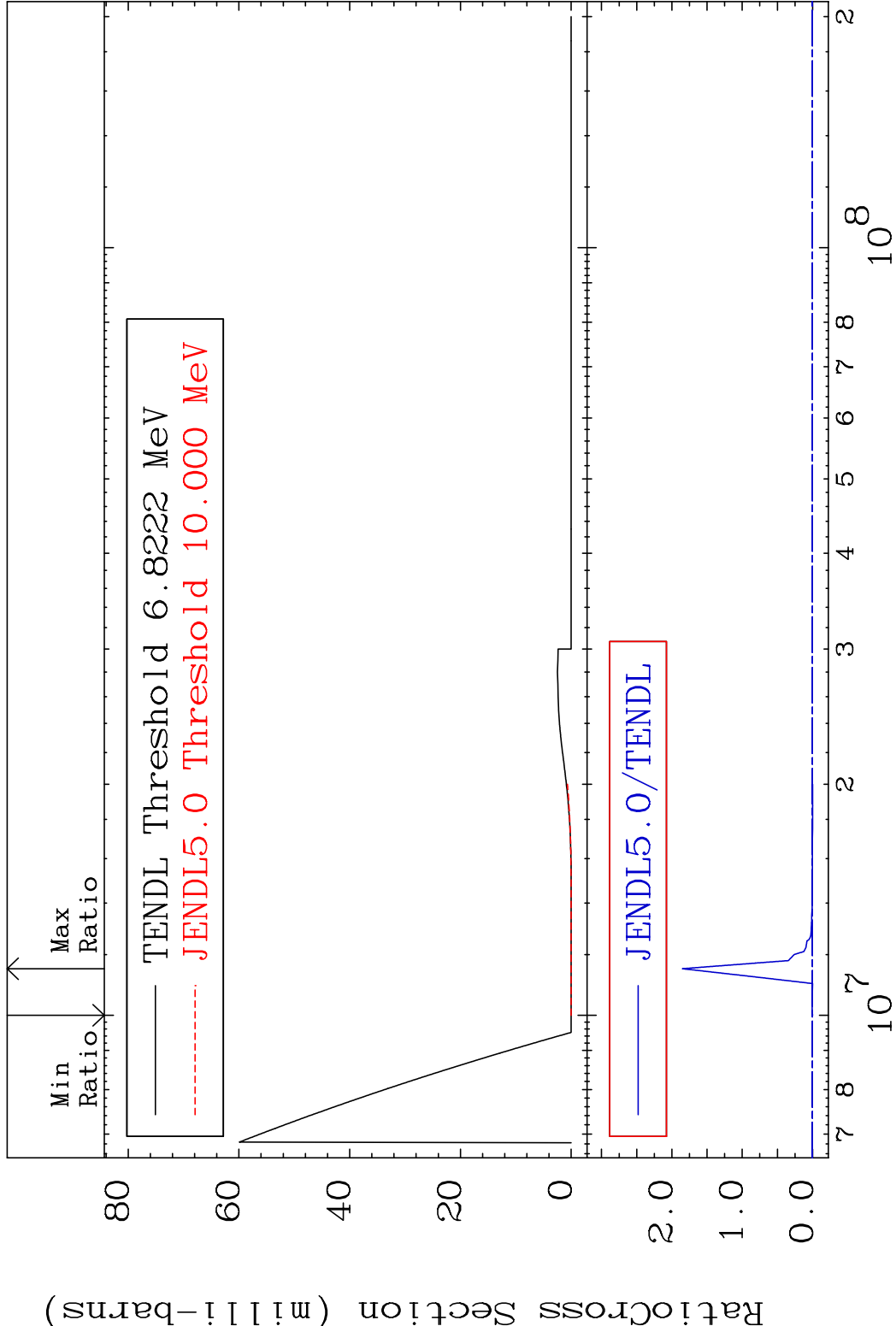


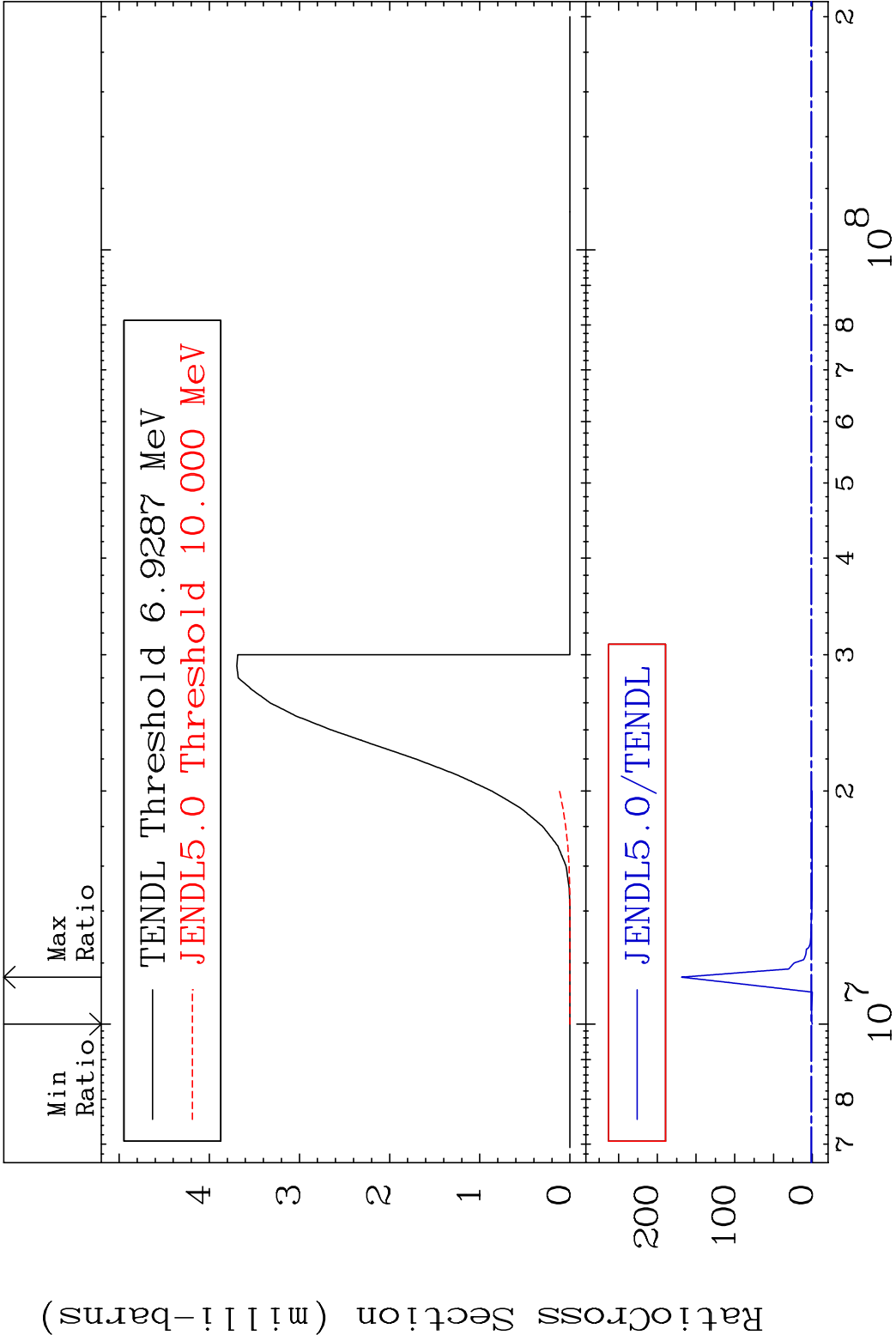




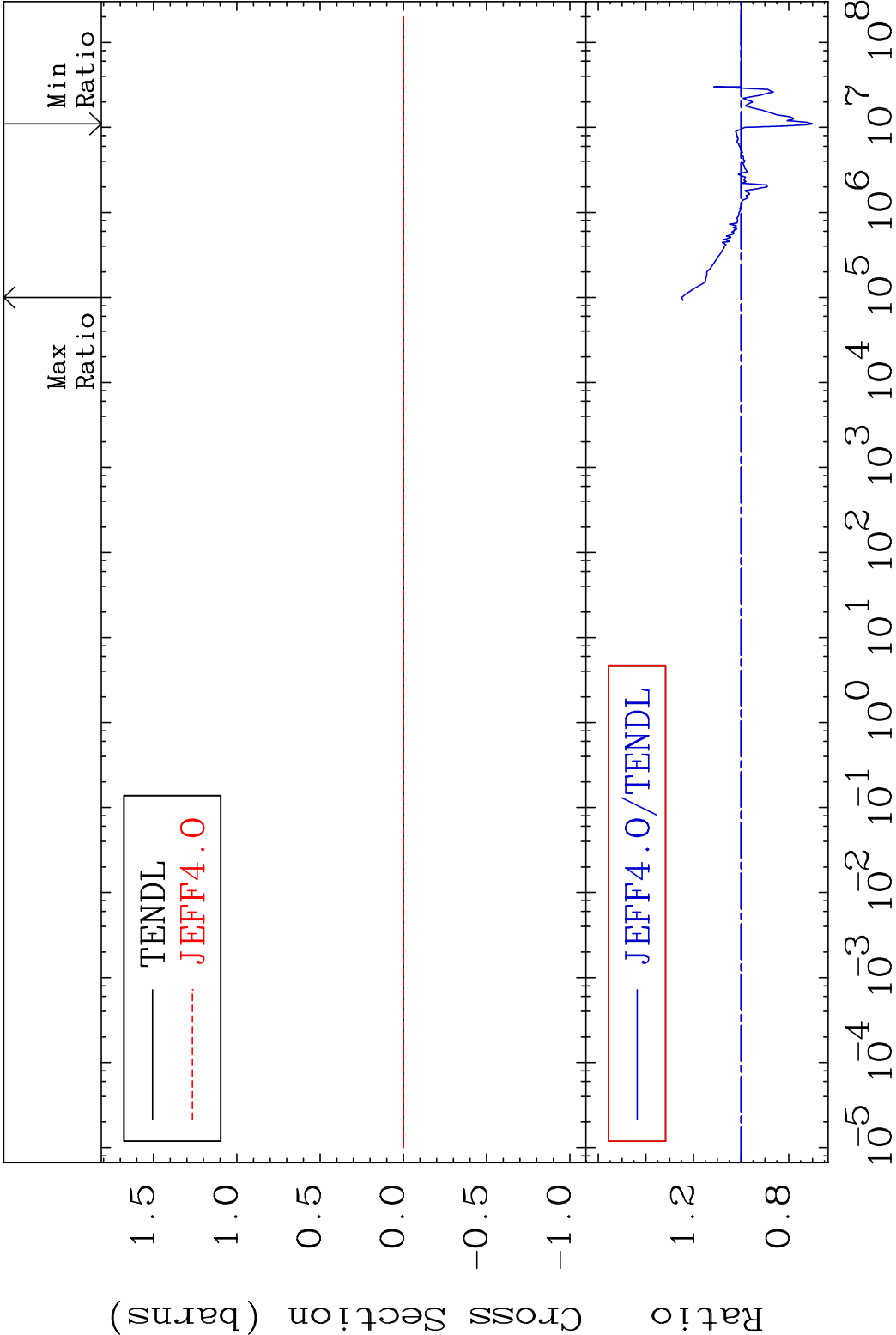


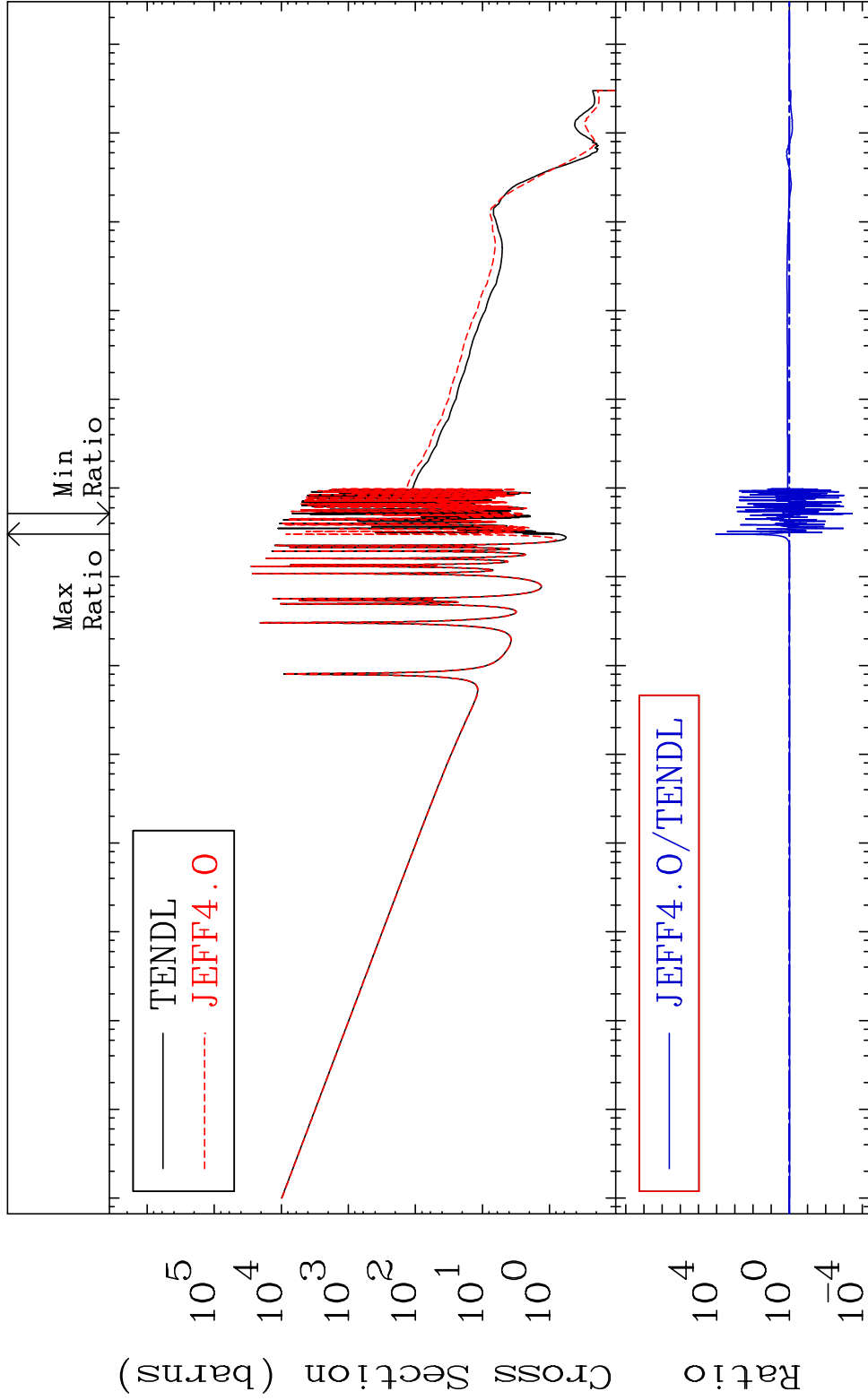
Radionuclide Production Cross Section to 9999. %

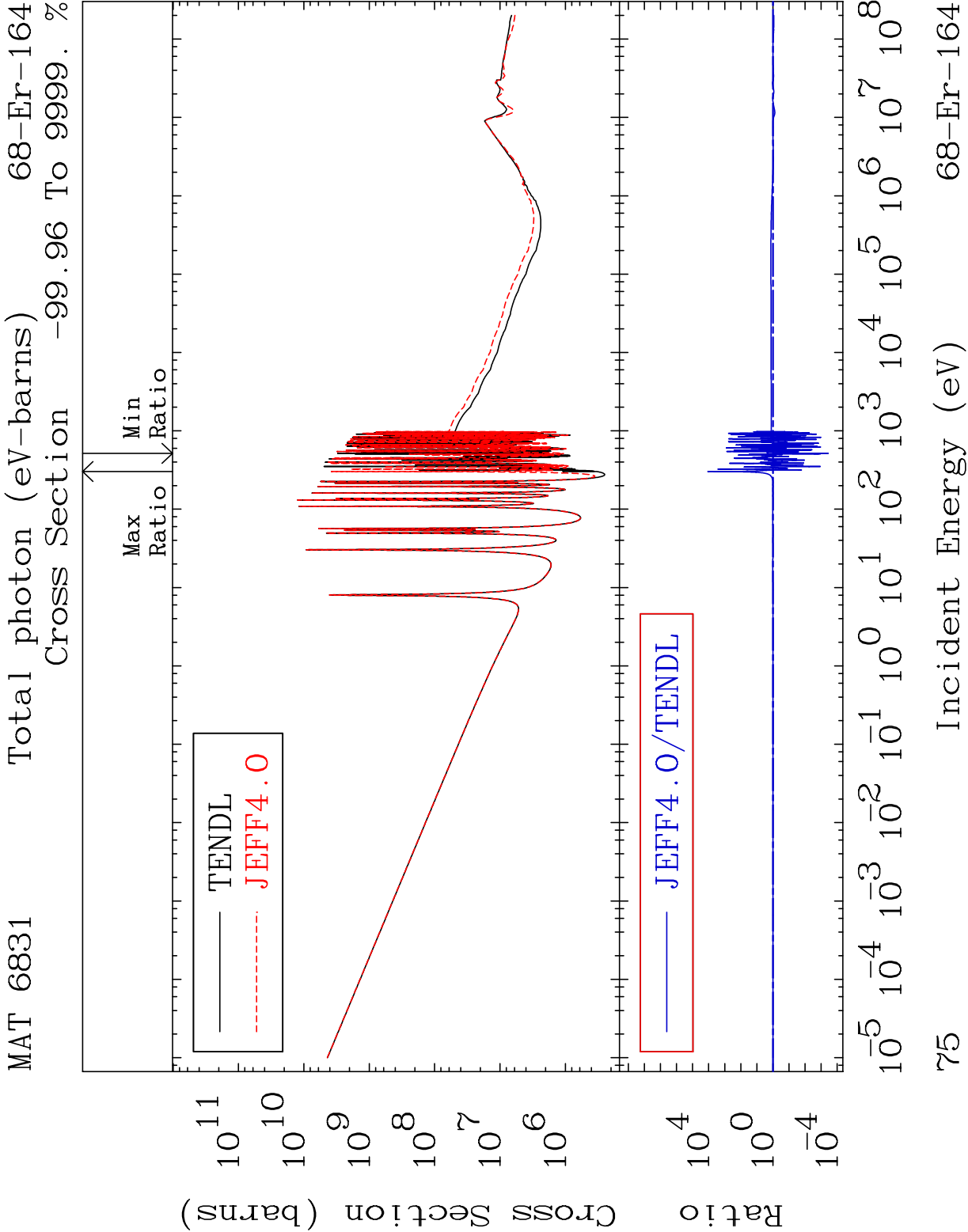




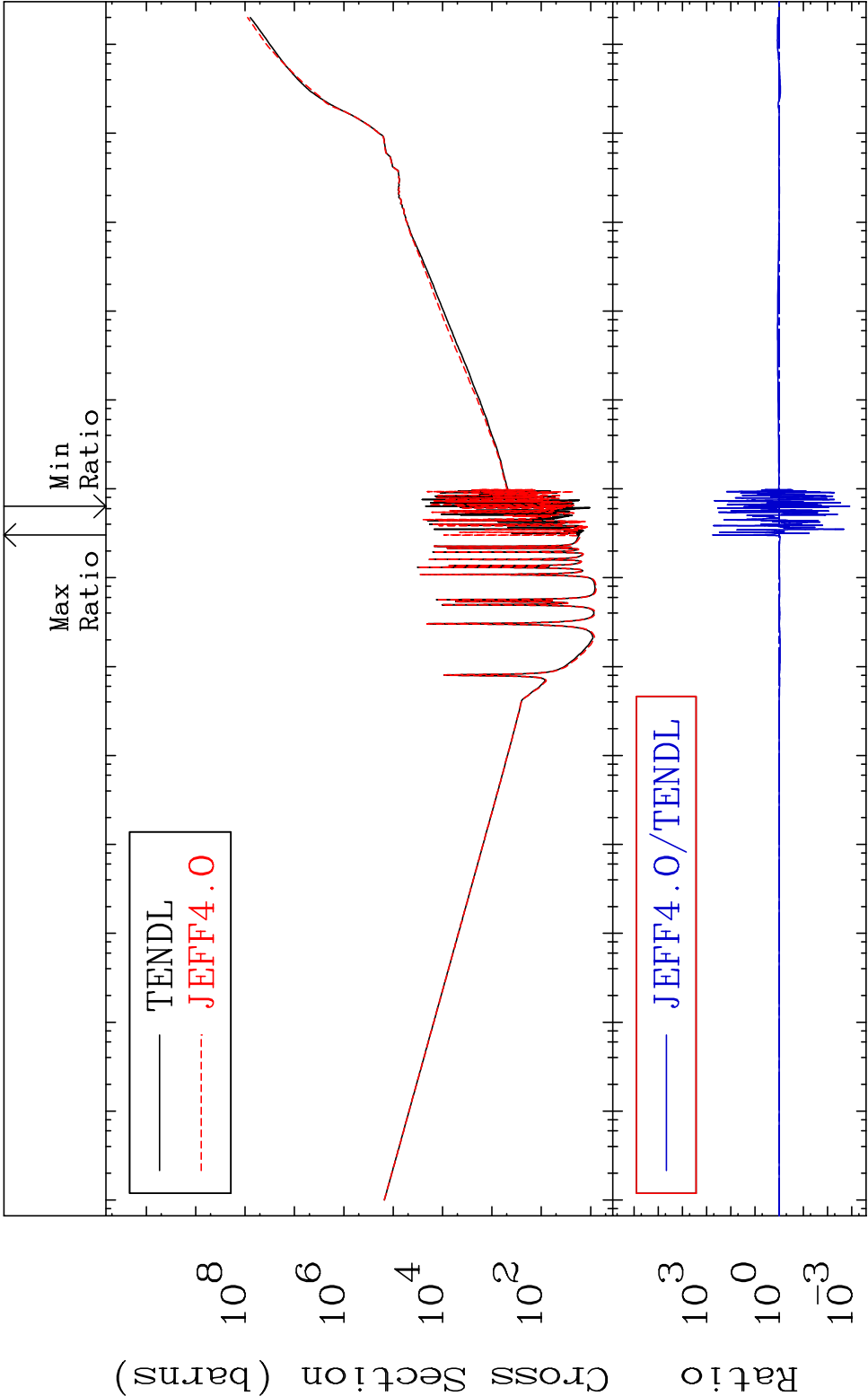
MAT 6831 Kerma fission (mt18 or mt19-20-21-38)68-Er-164
Cross Section -29.85 To 25.05 %





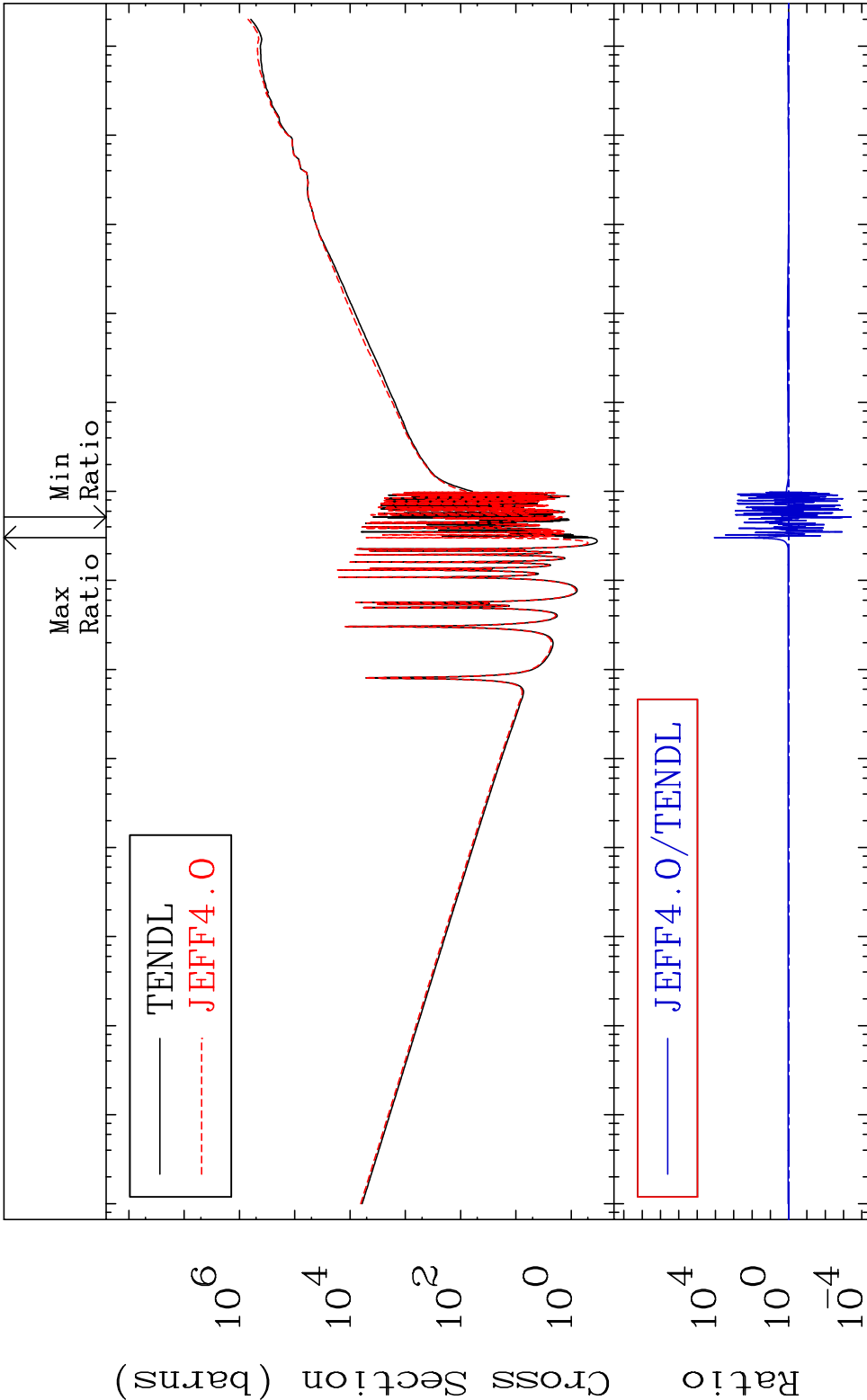


MAT 6831 Total kinematic kerma (high limit) 68-Er-164
Cross Section -99.88 To 9999. %



76 Incident Energy (eV) 68-Er-164

MAT 6831 Dpa total (eV-barns) 68-Er-164
Cross Section -99.96 To 9999. %



77 Incident Energy (eV) 68-Er-164

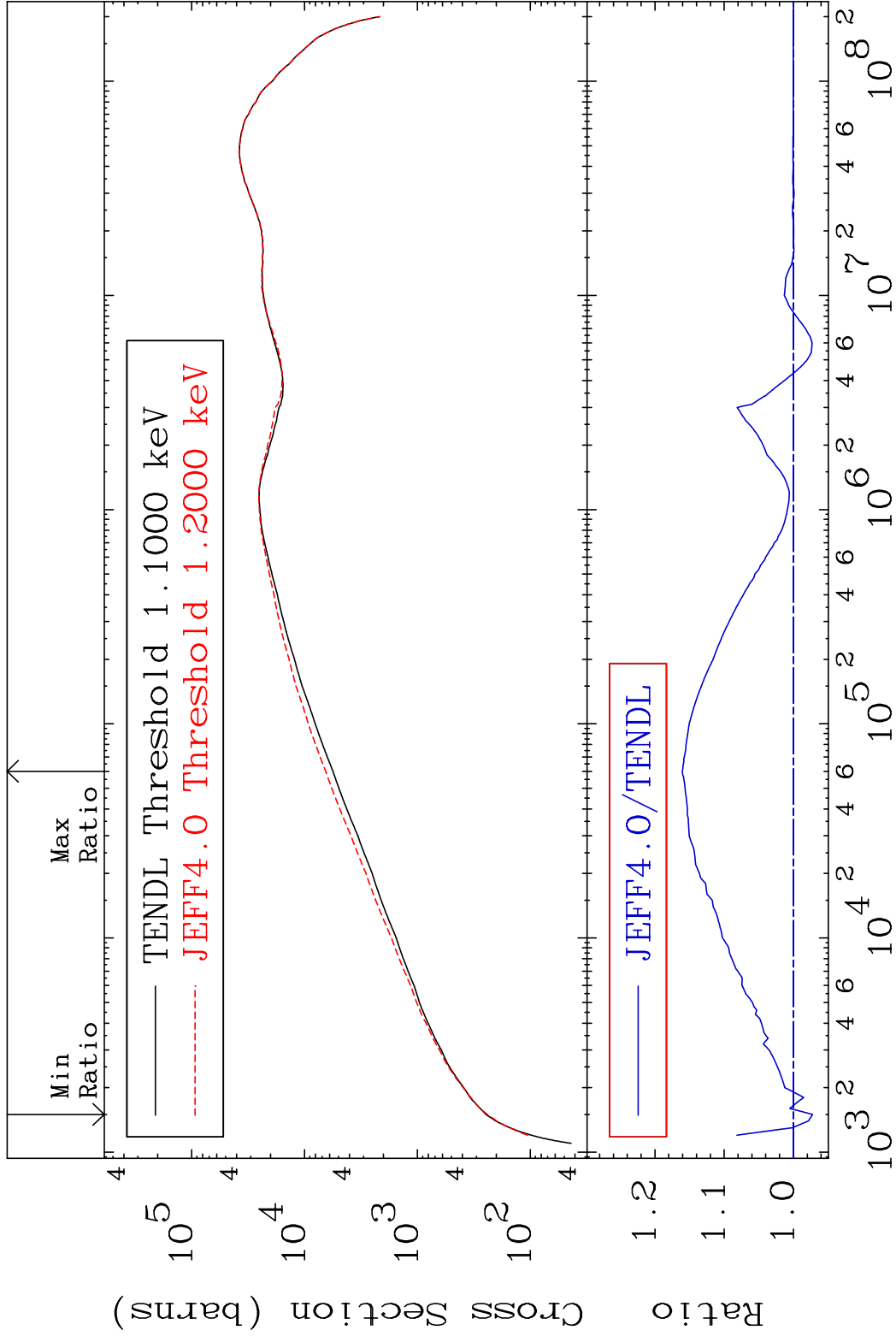
MAT 6831

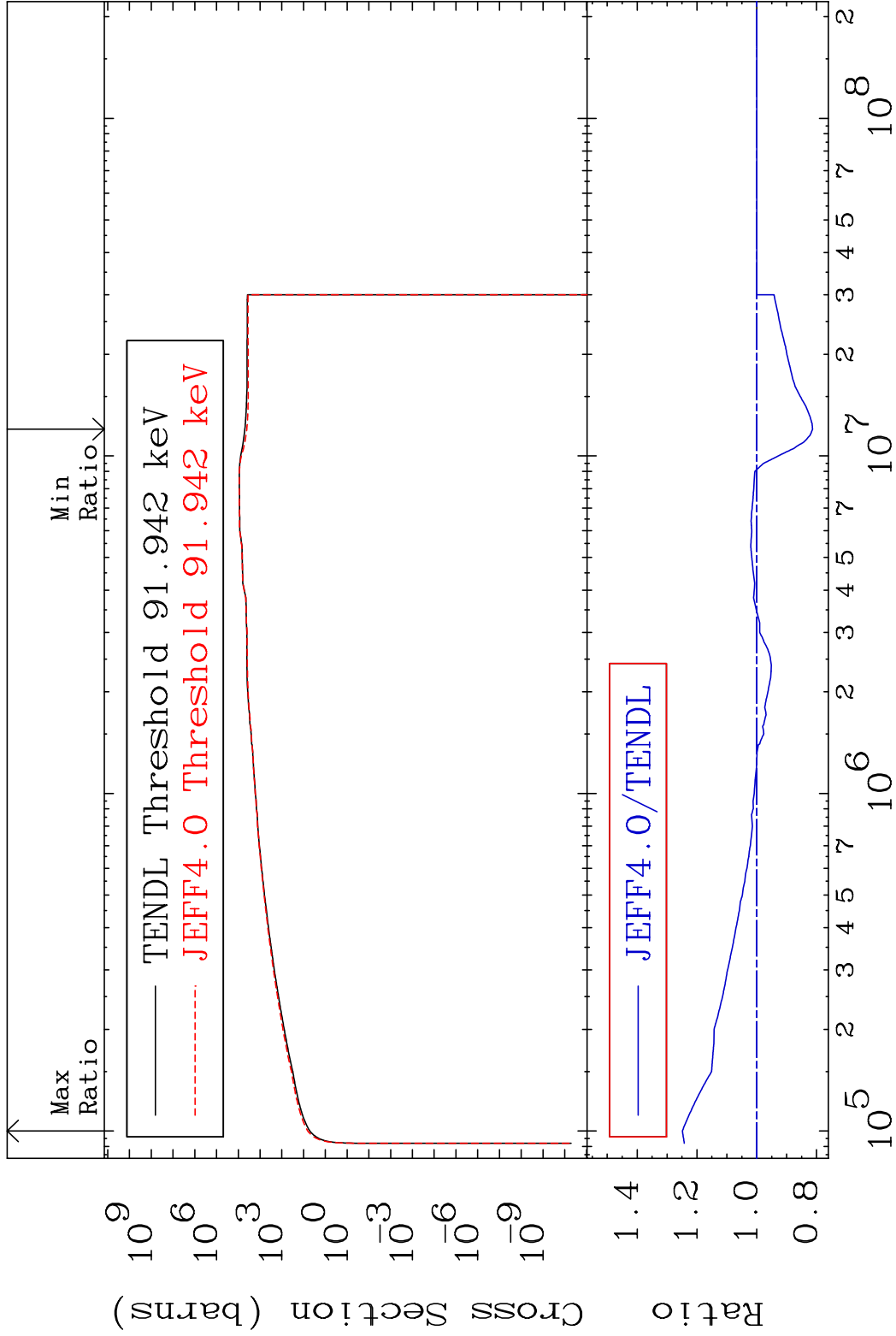
Dpa elastic (mt2)

68-Er-164

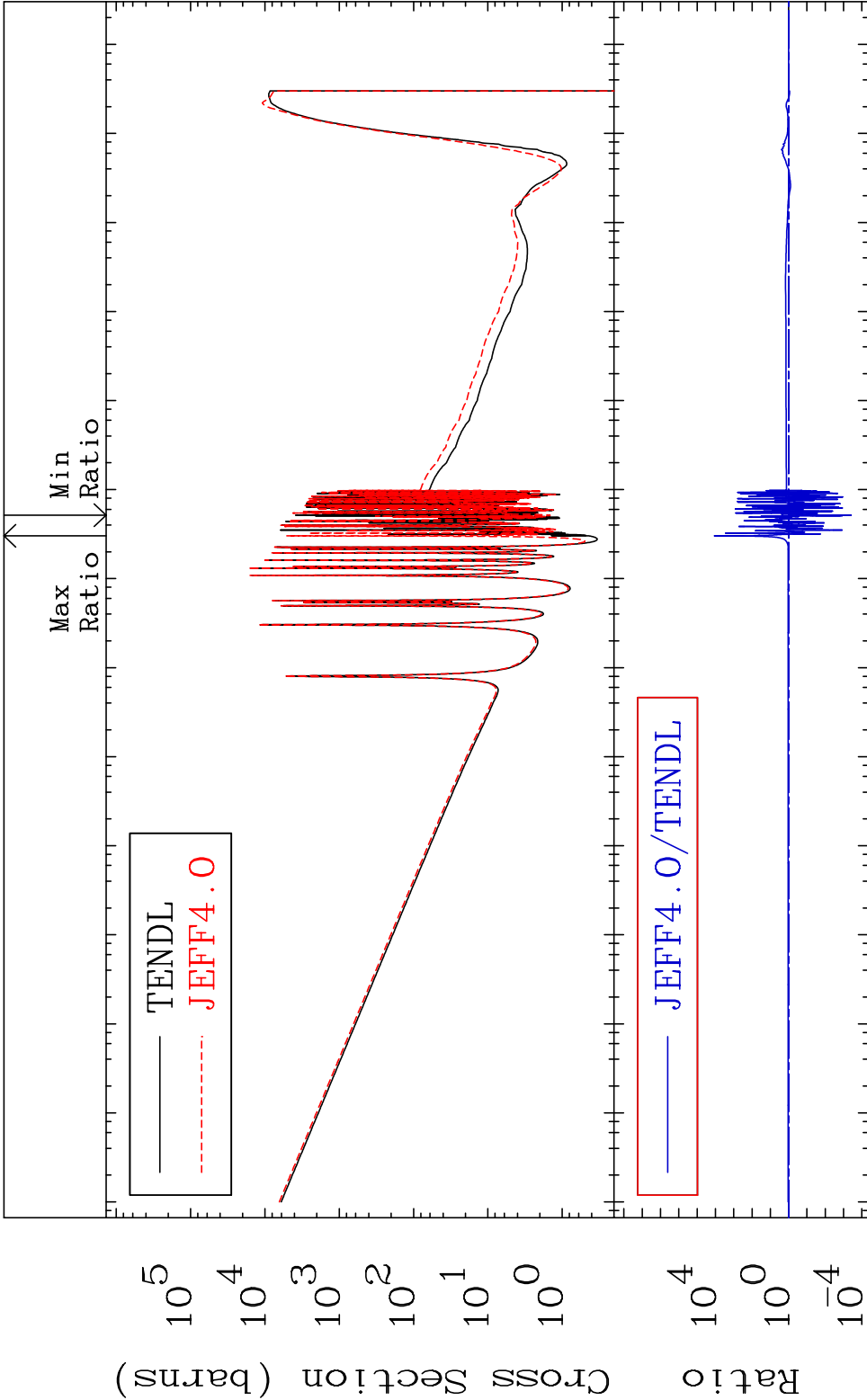
Cross Section

-2.766 To 16.04 %





MAT 6831 Dpa disappearance (mt102 -120) 68-Er-164
Cross Section -99.96 To 9999. %



80 Incident Energy (eV) 68-Er-164

