

Program Complot
(Version 2021-1)

by

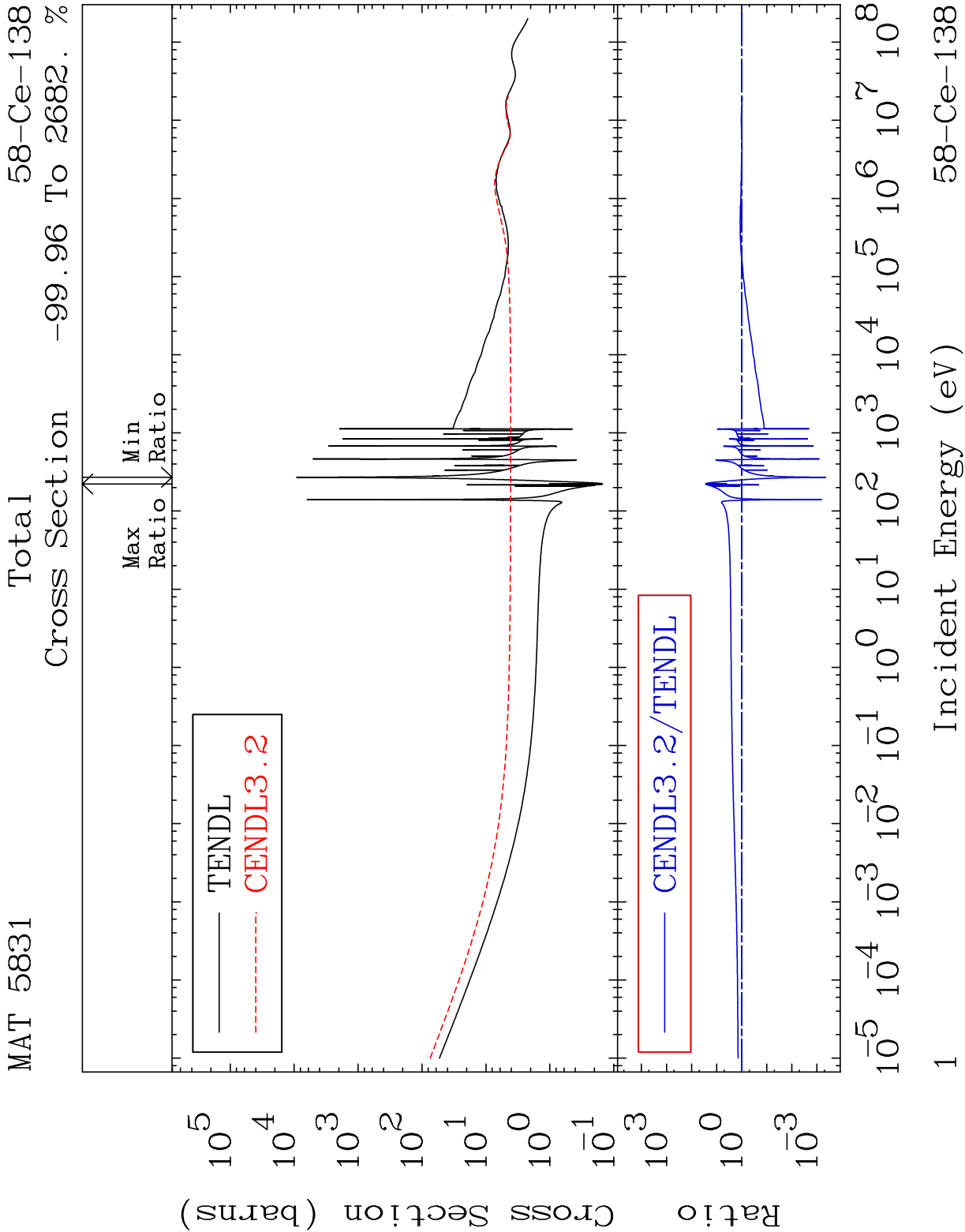
Dermott E. Cullen
(Present Contact Information)

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

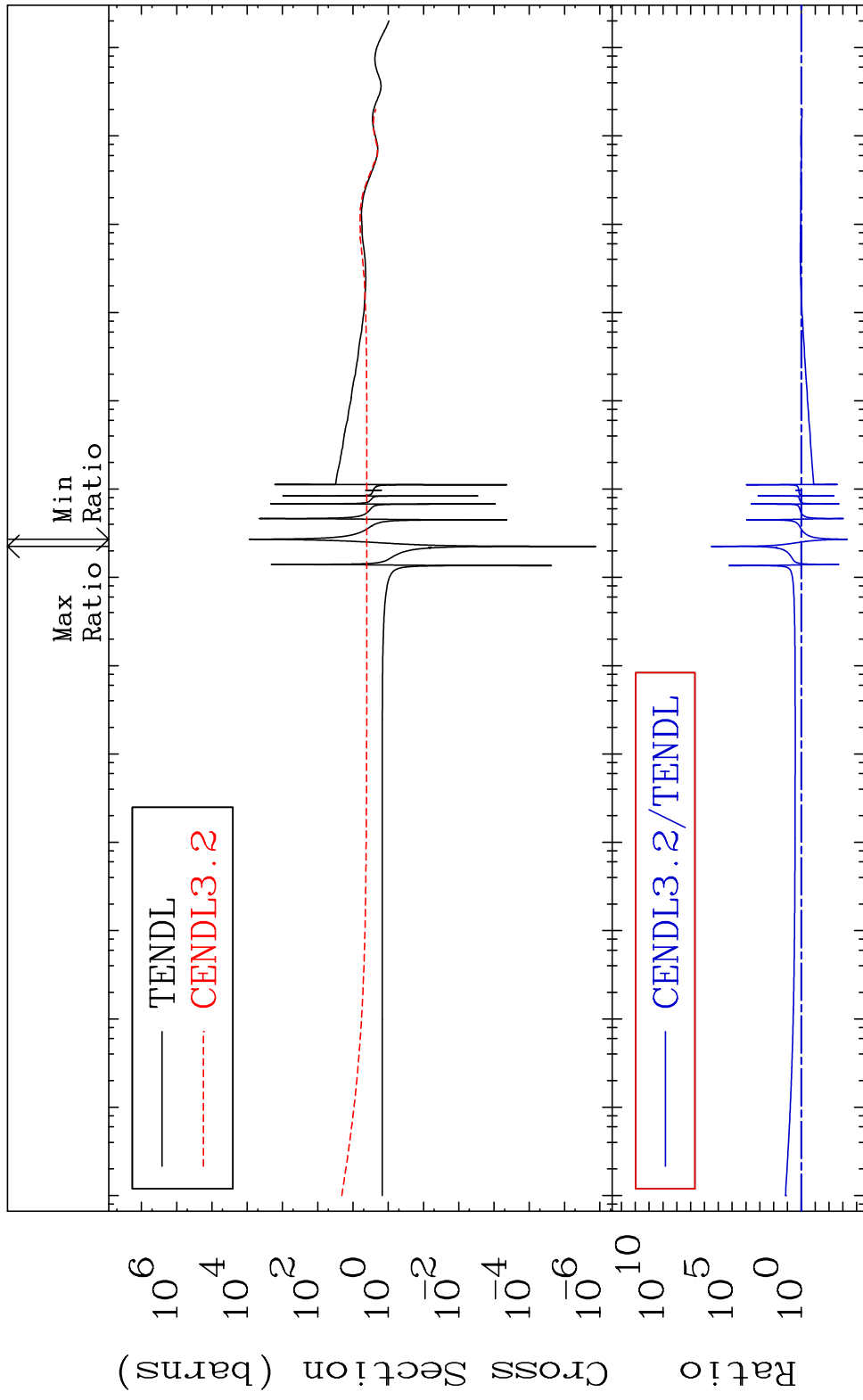


MAT 5831

Elastic

58-Ce-138

Cross Section -99.95 To 9999. %

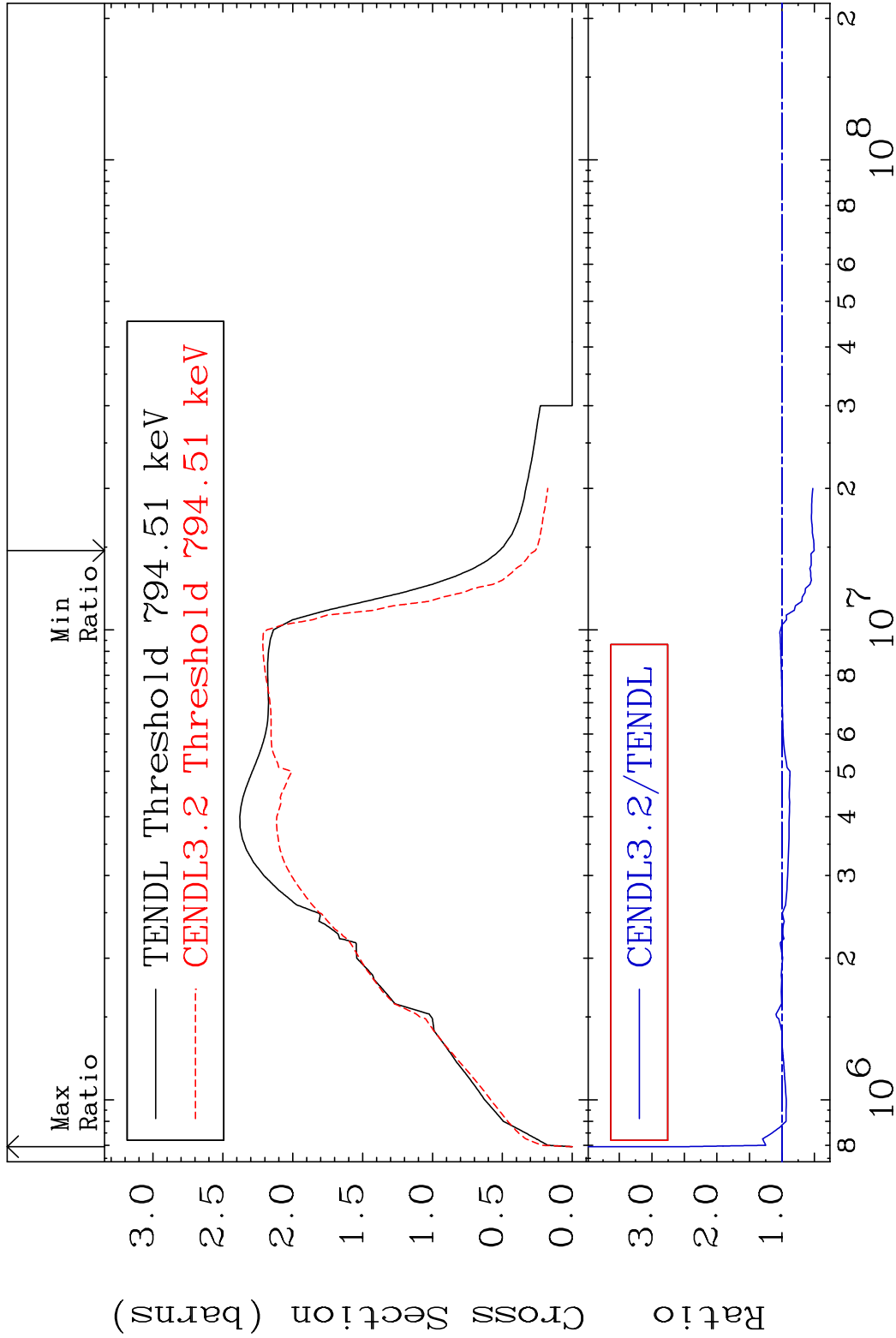


2

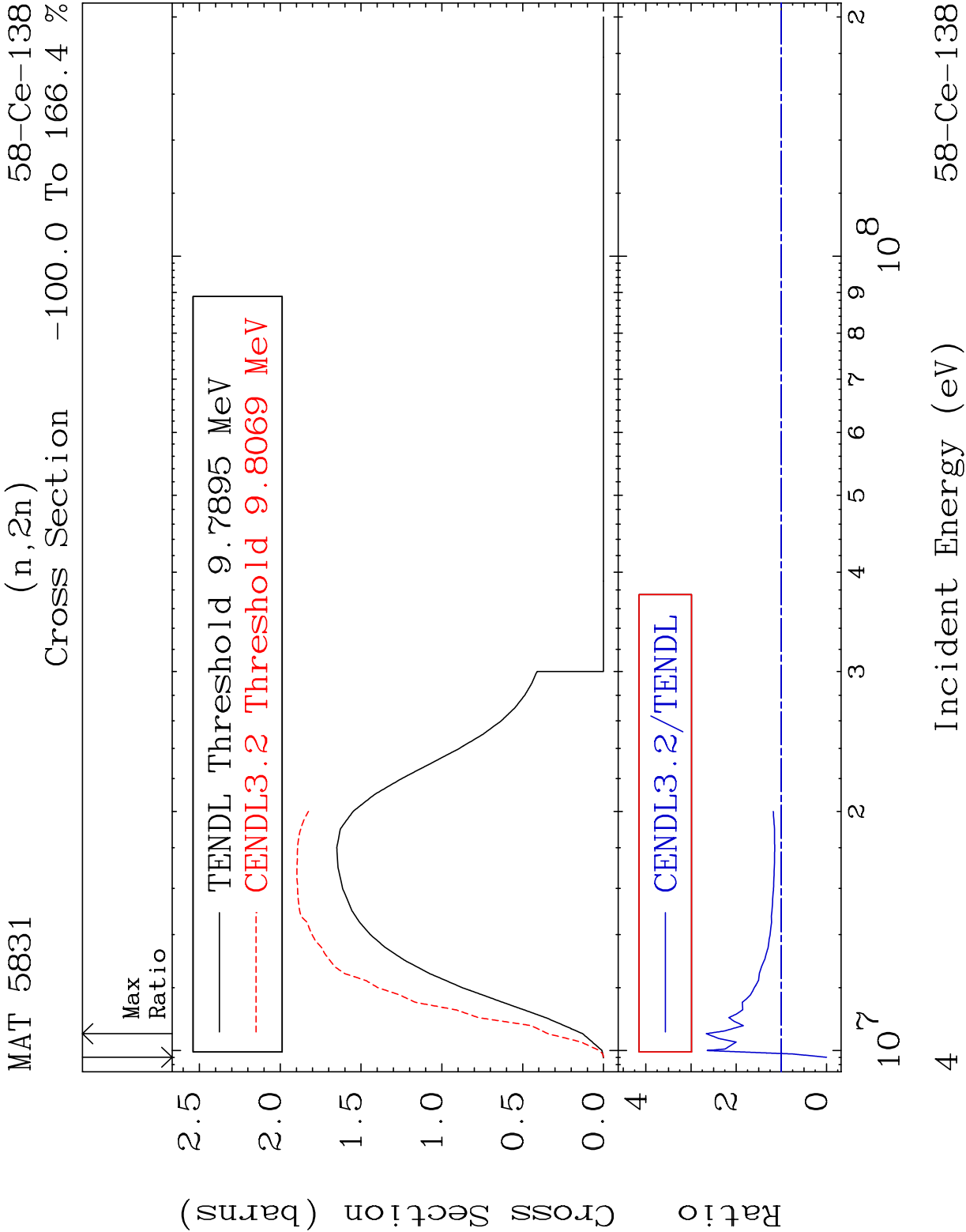
Incident Energy (eV)

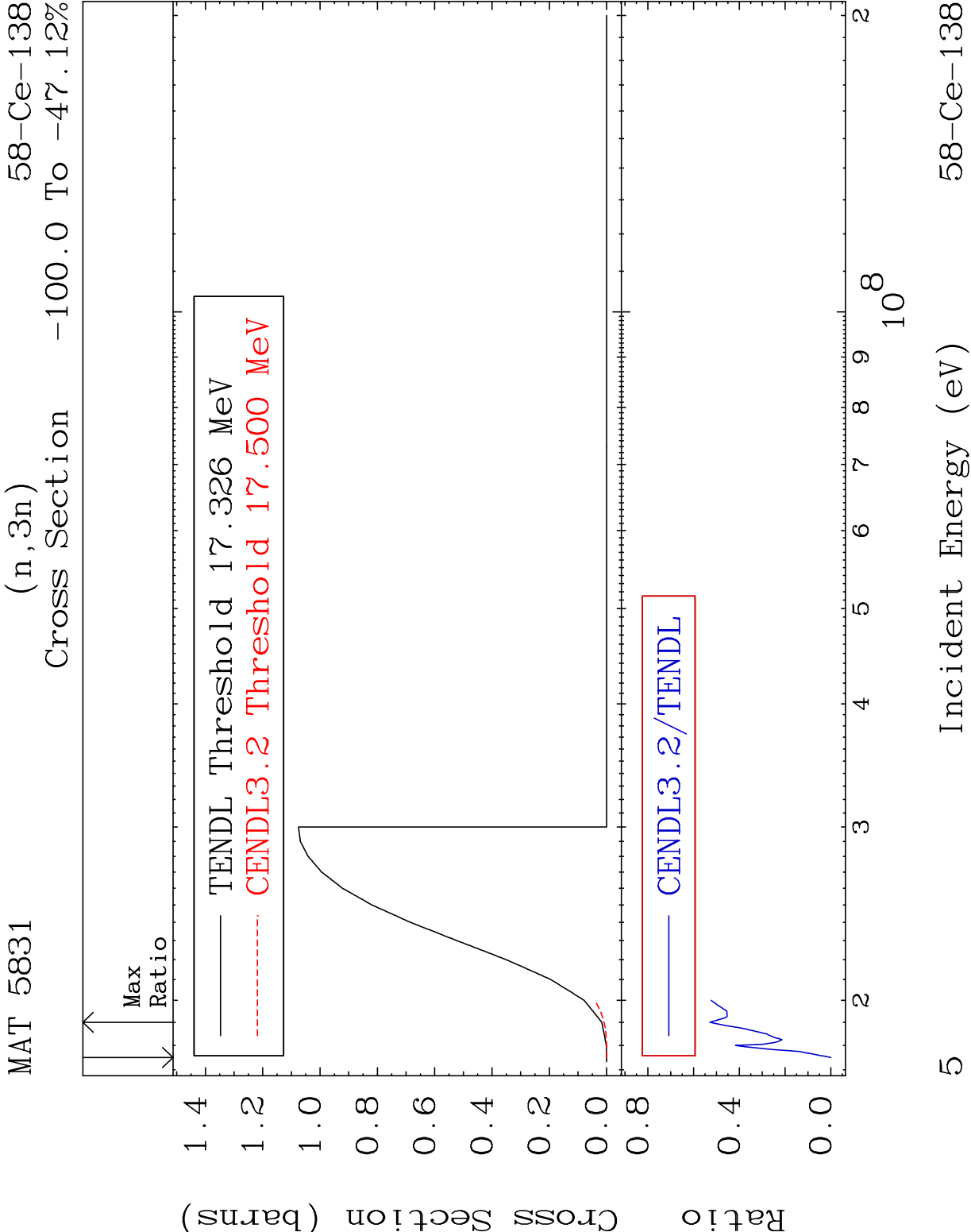
58-Ce-138

MAT 5831 Inelastic 58-Ce-138
 Cross Section -49.49 To 151.1 %



3 Incident Energy (eV) 58-Ce-138



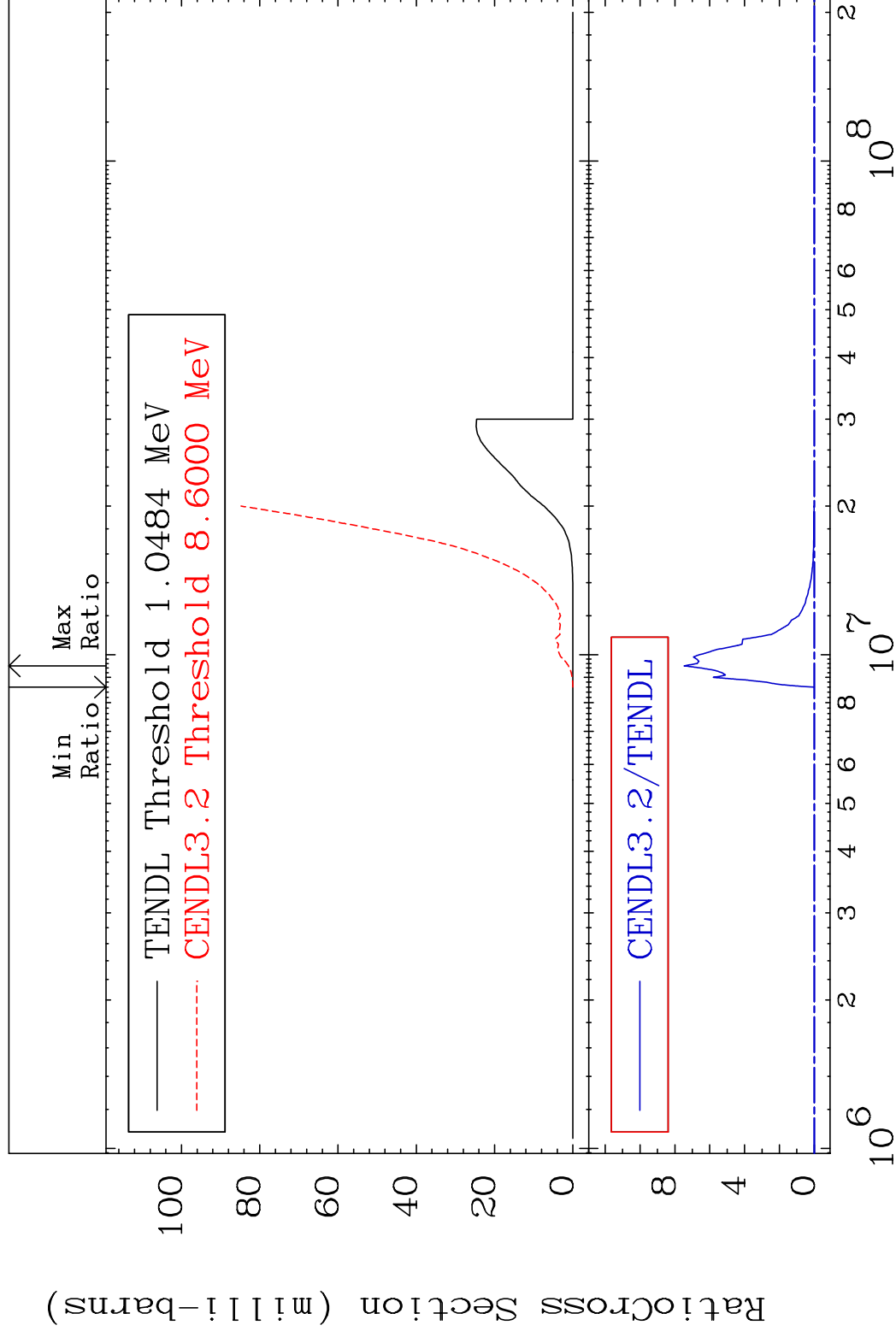


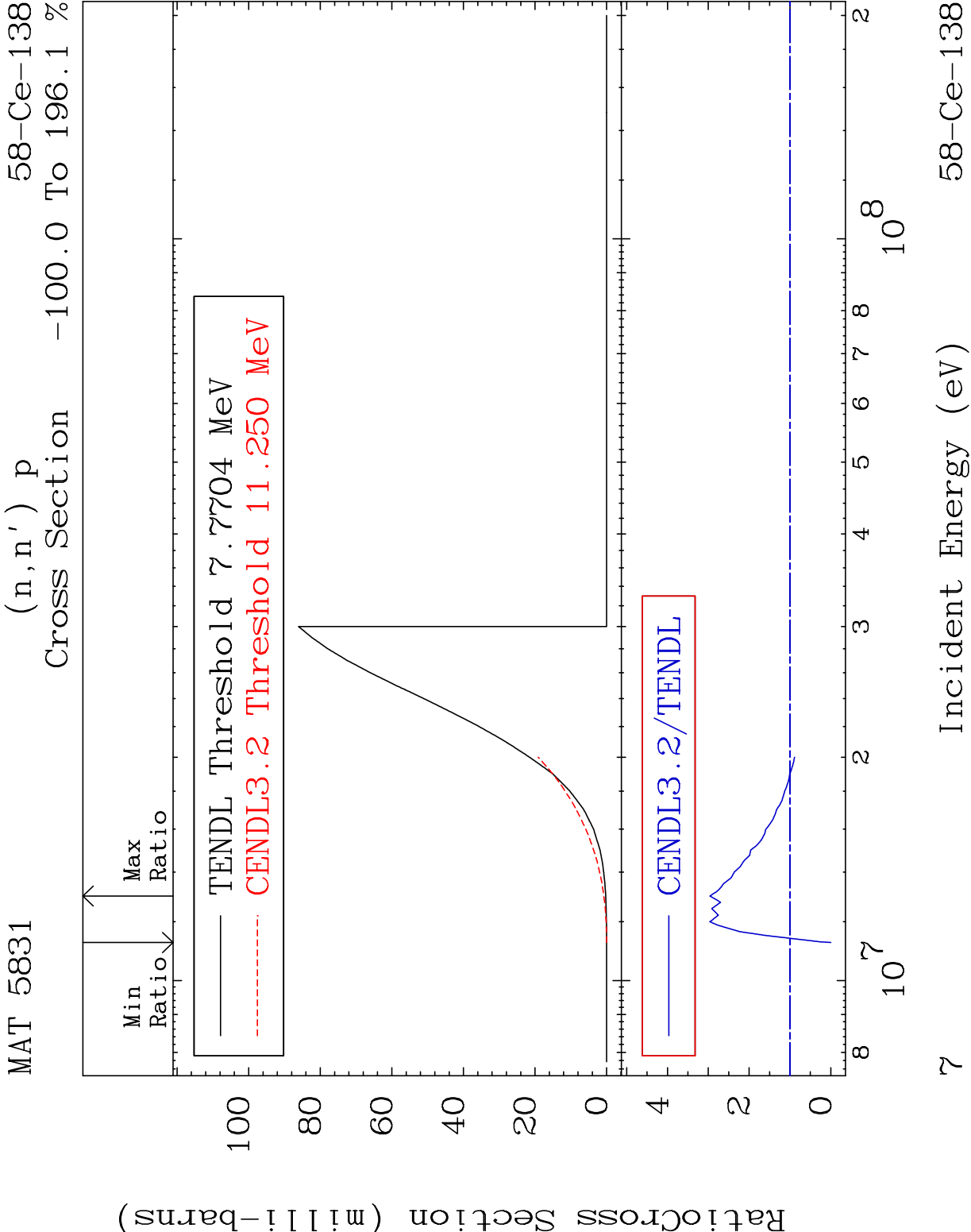
MAT 5831

$$(n, n') \propto$$

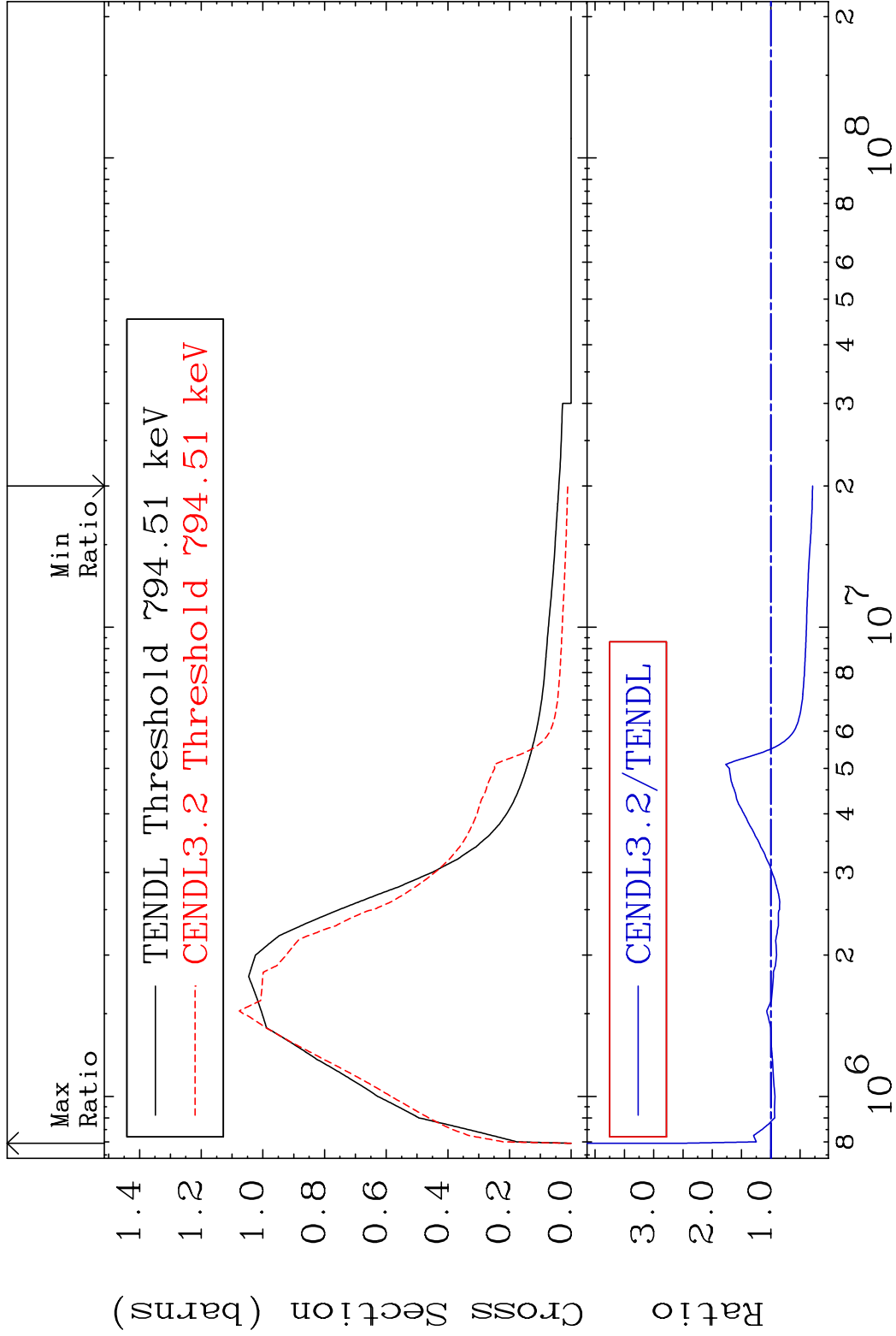
58-Ce-138

Cross Section -100.0 To 9999. %



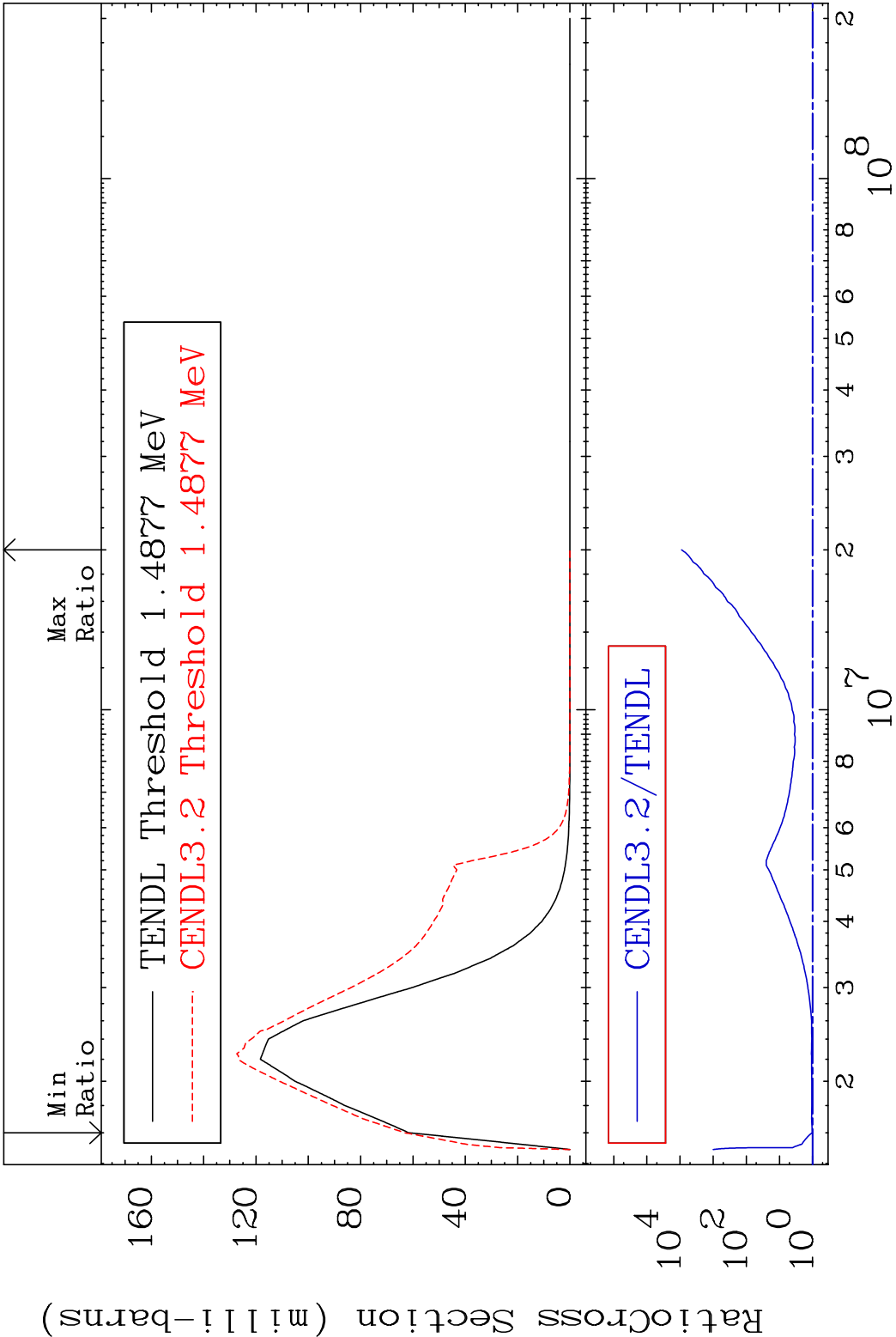


MAT 5831 MT= 51 (n,n') Level 58-Ce-138
Cross Section -71.18 To 151.1 %

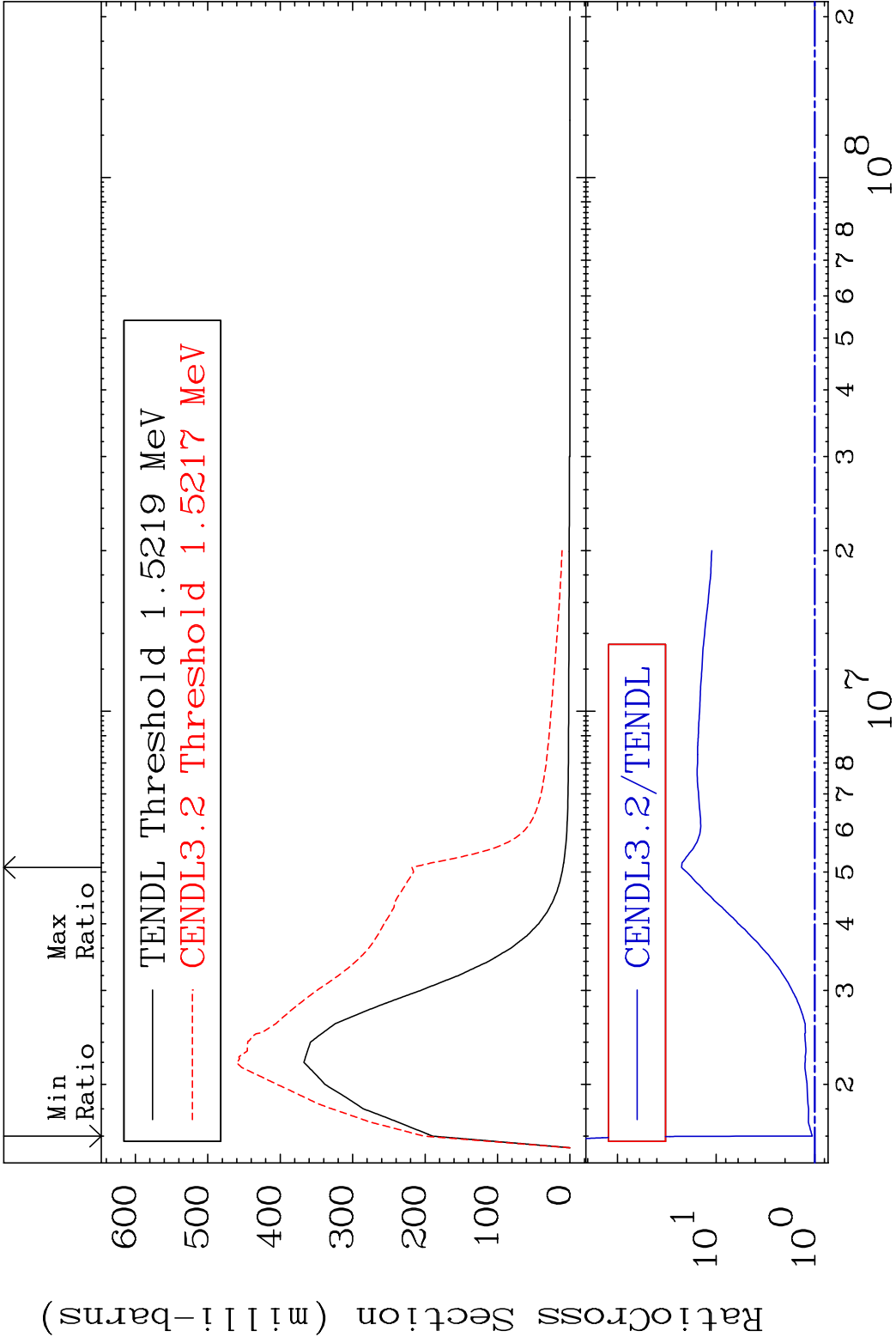


8 Incident Energy (eV) 58-Ce-138

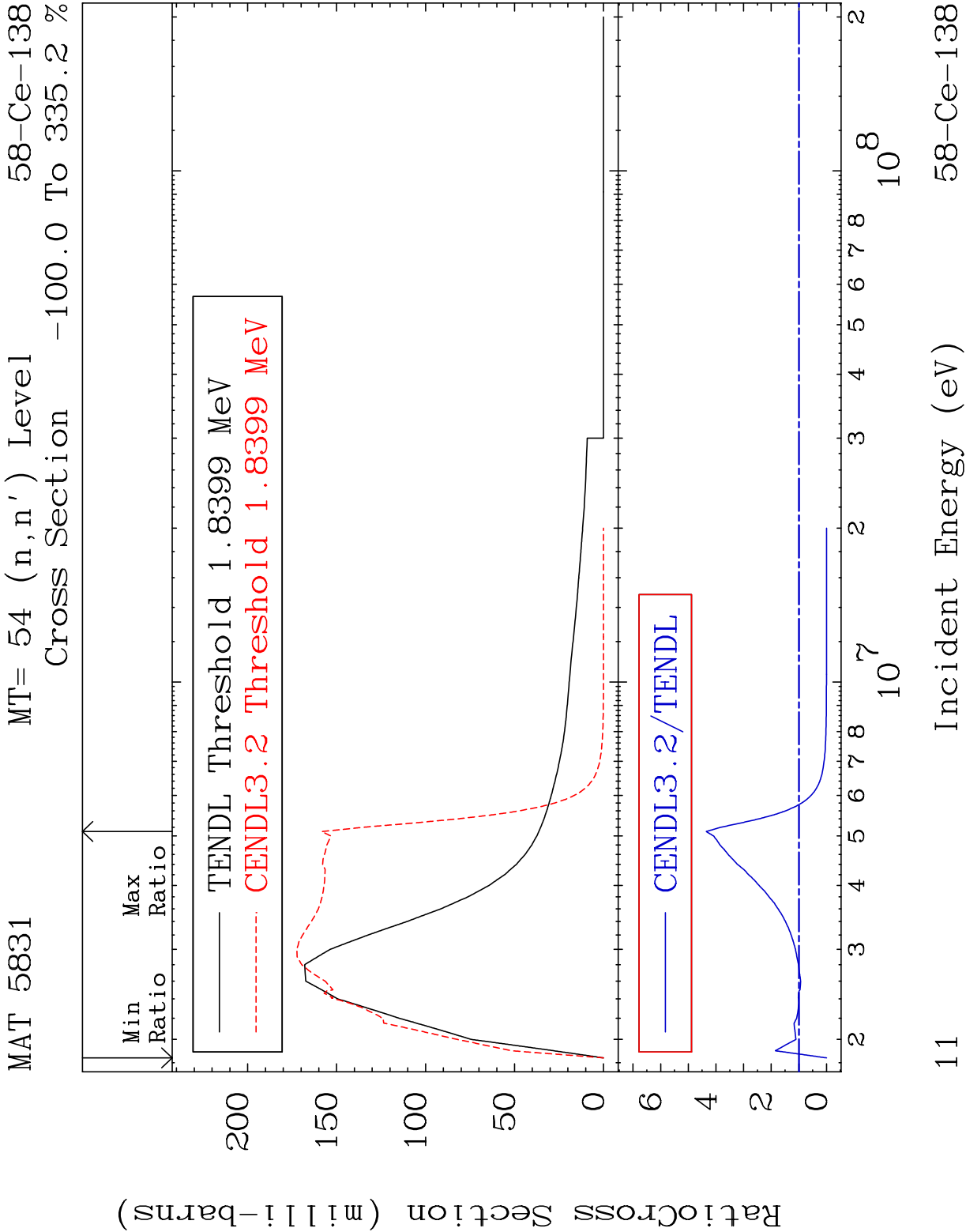
MAT 5831	MT= 52 (n,n')	Level	58-Ce-138
	Cross Section	2.618	To 9999. %



MAT 5831	MT= 53 (n,n')	Level	58-Ce-138
	Cross Section	6.118	To 2143. %



10	Incident Energy (eV)	58-Ce-138
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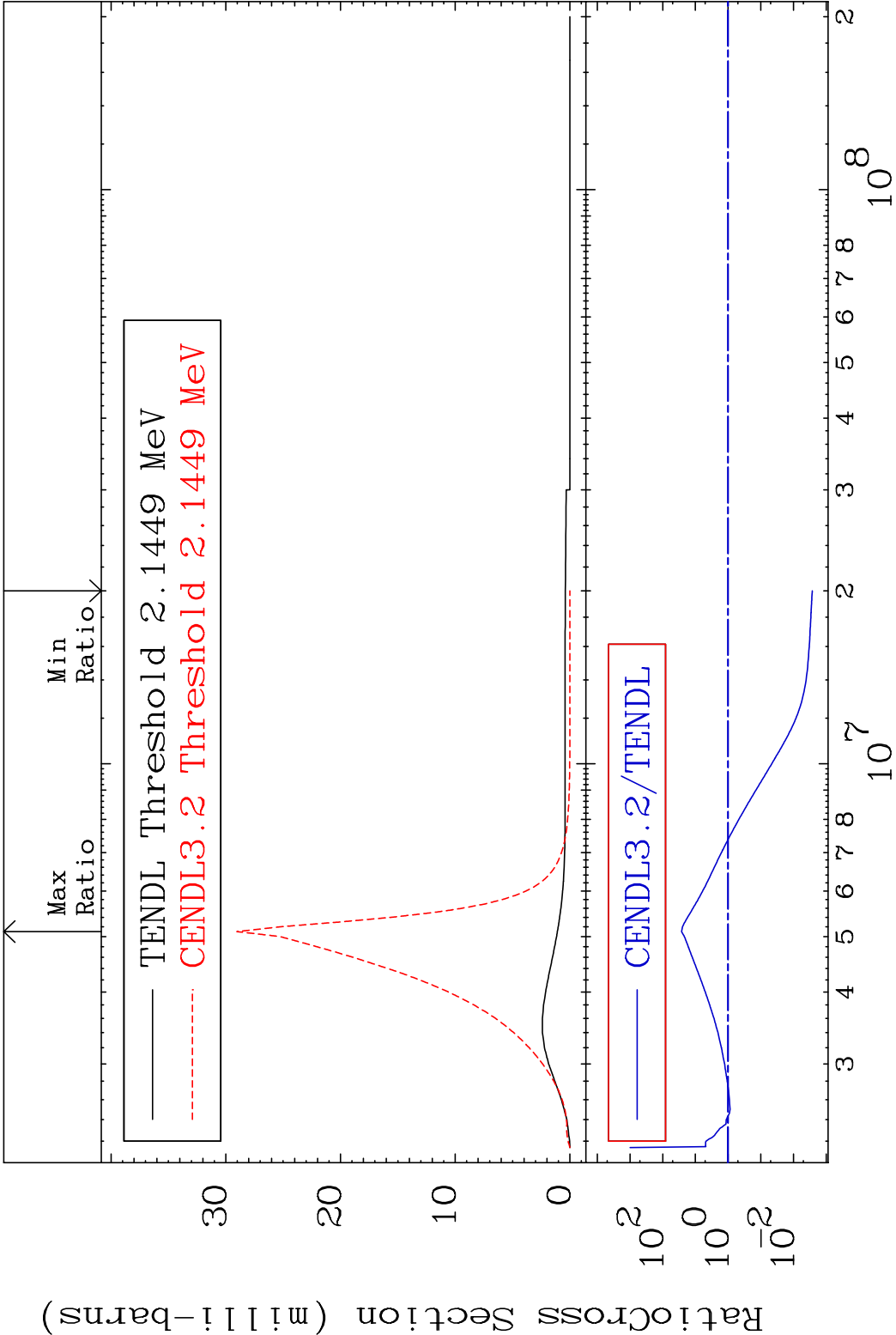
MAT 5831

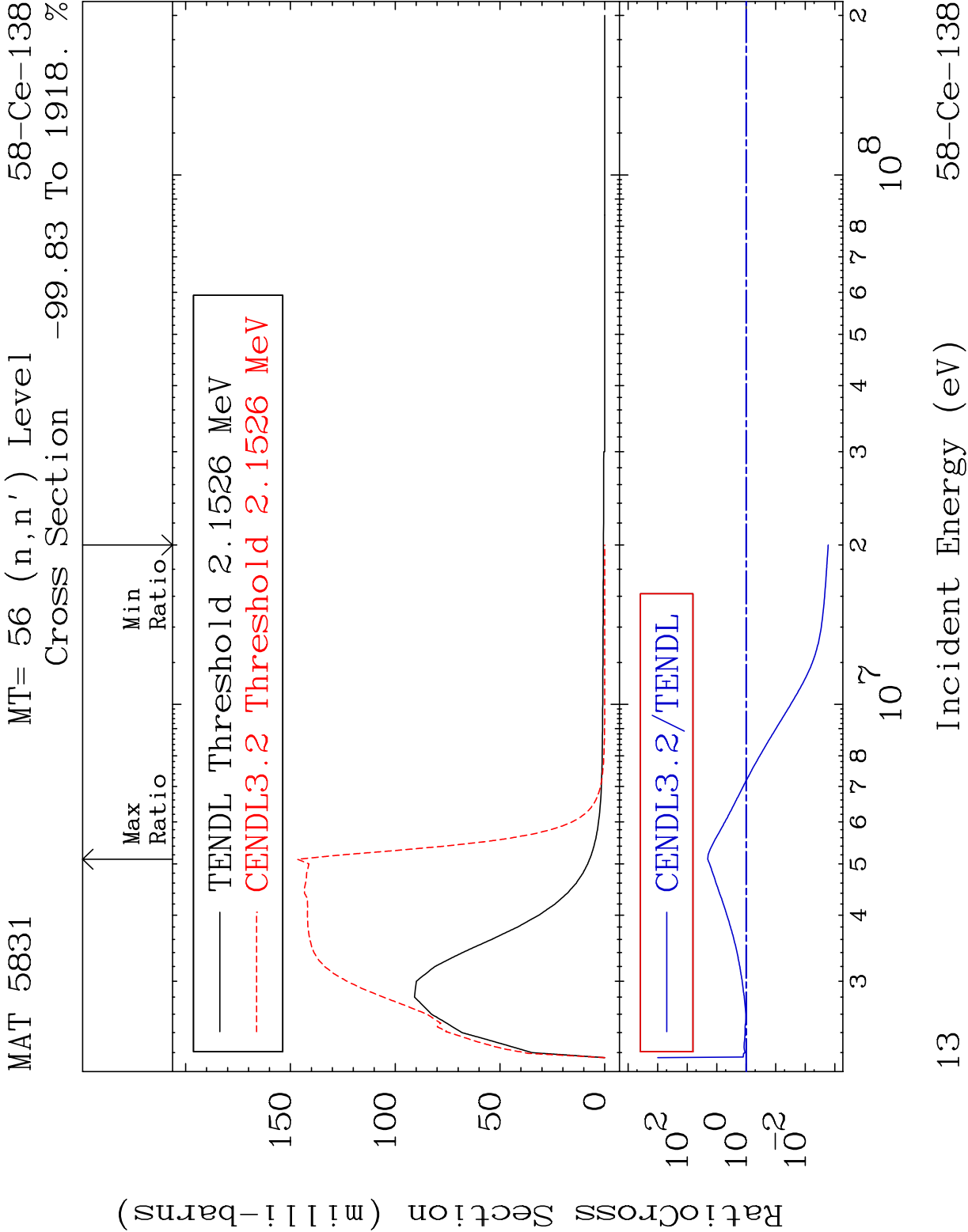
MT= 55 (n,n') Level

58-Ce-138

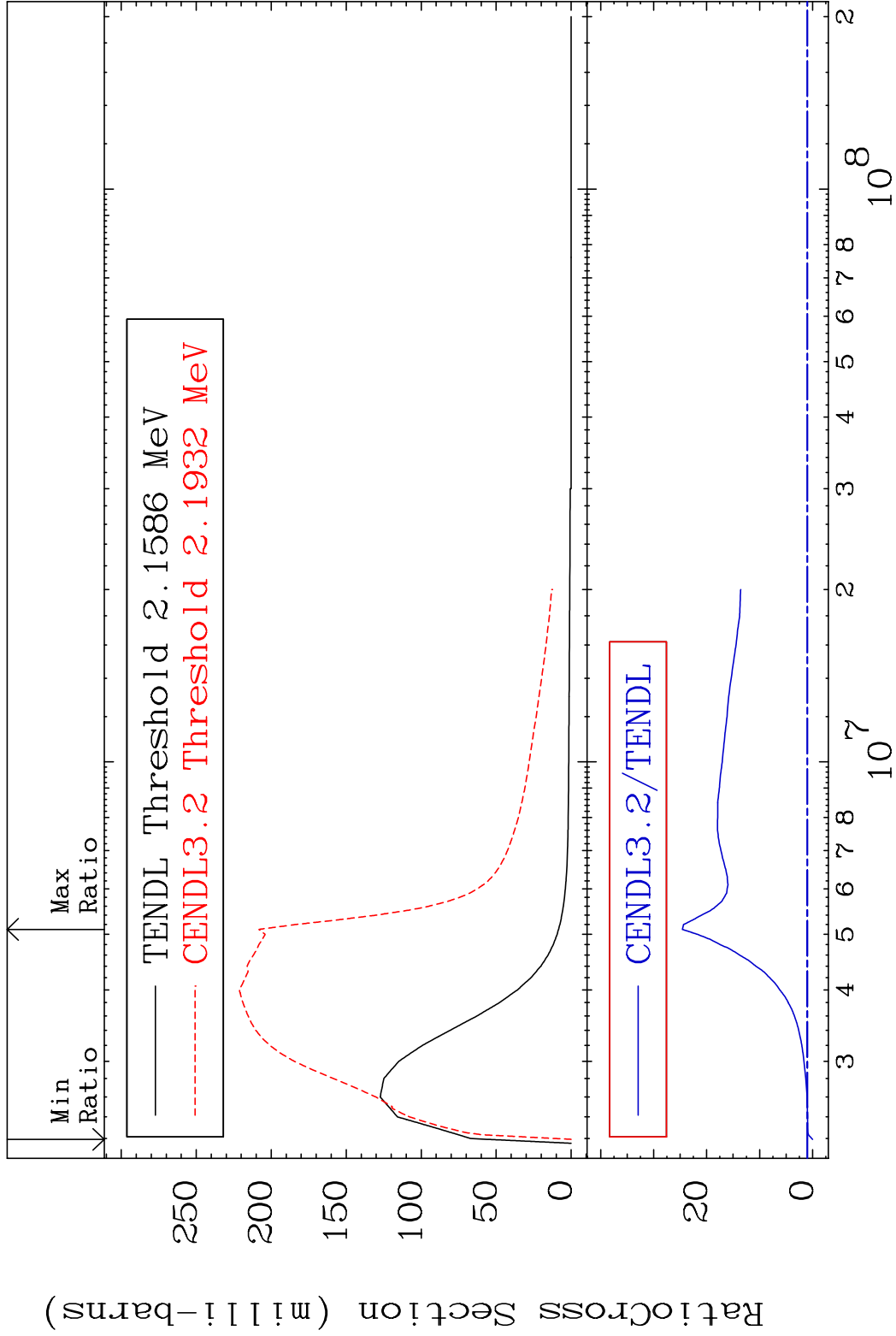
Cross Section

-99.73 To 2555. %

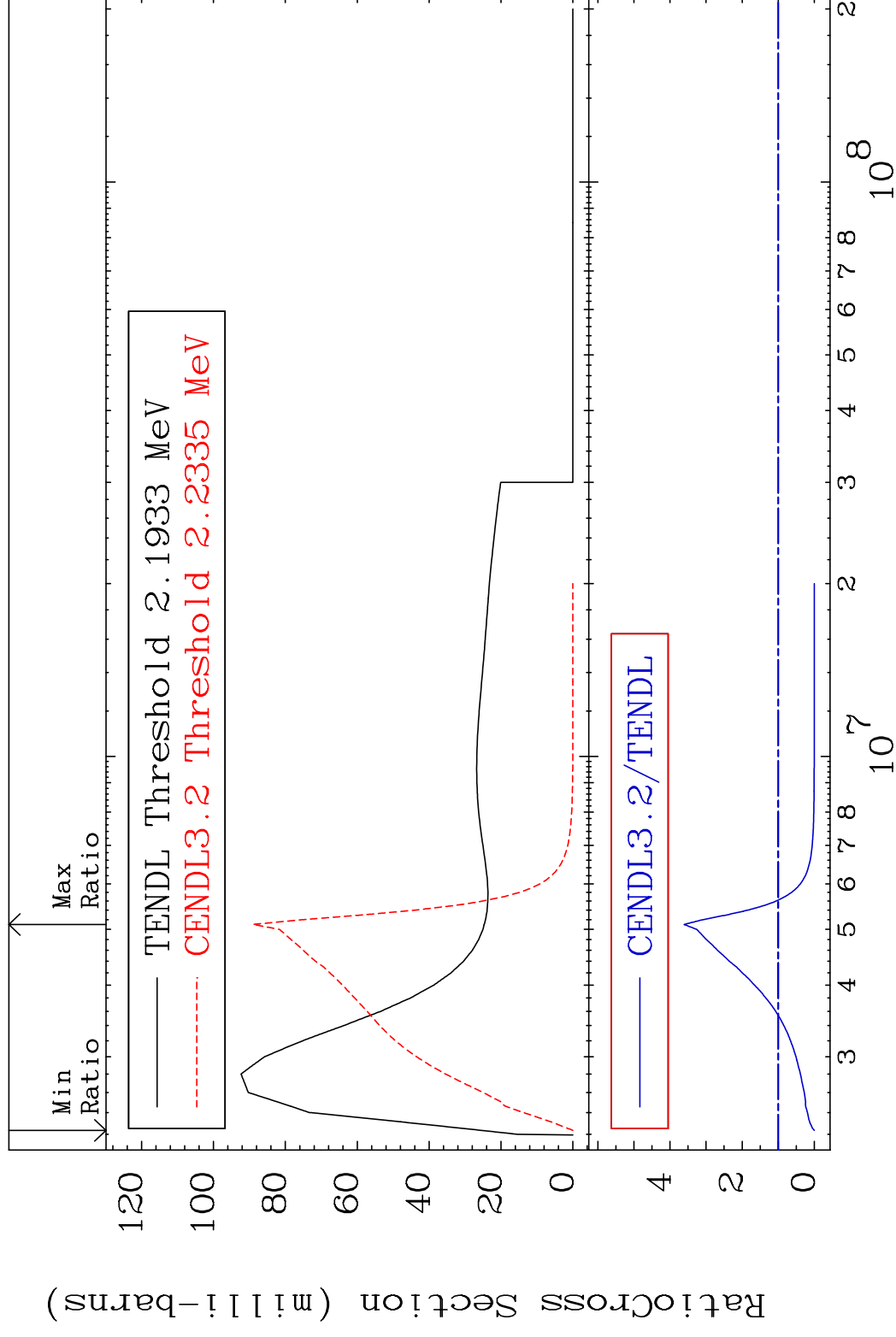




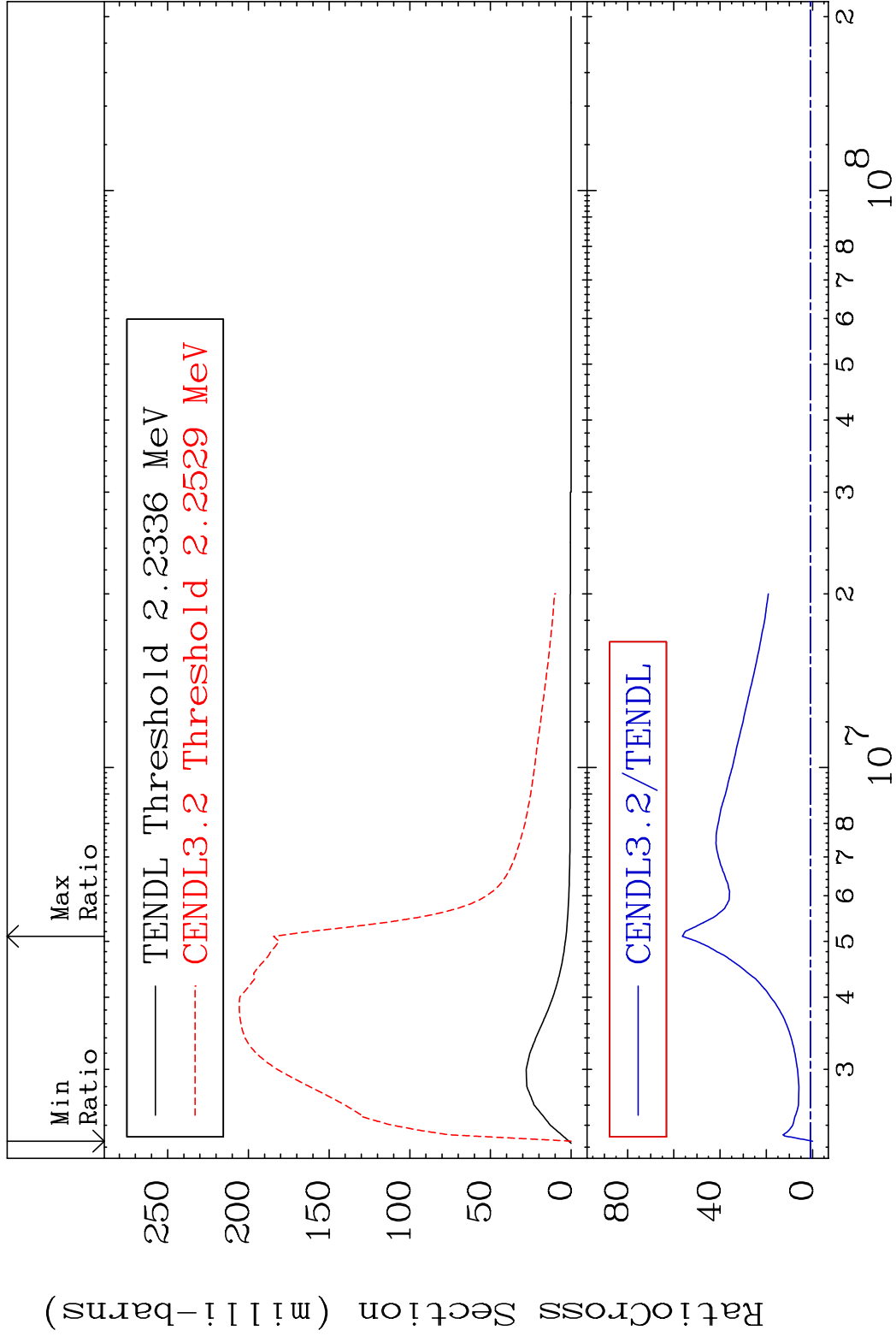
MAT 5831 MT= 57 (n,n') Level 58-Ce-138
Cross Section -100.0 To 2359. %



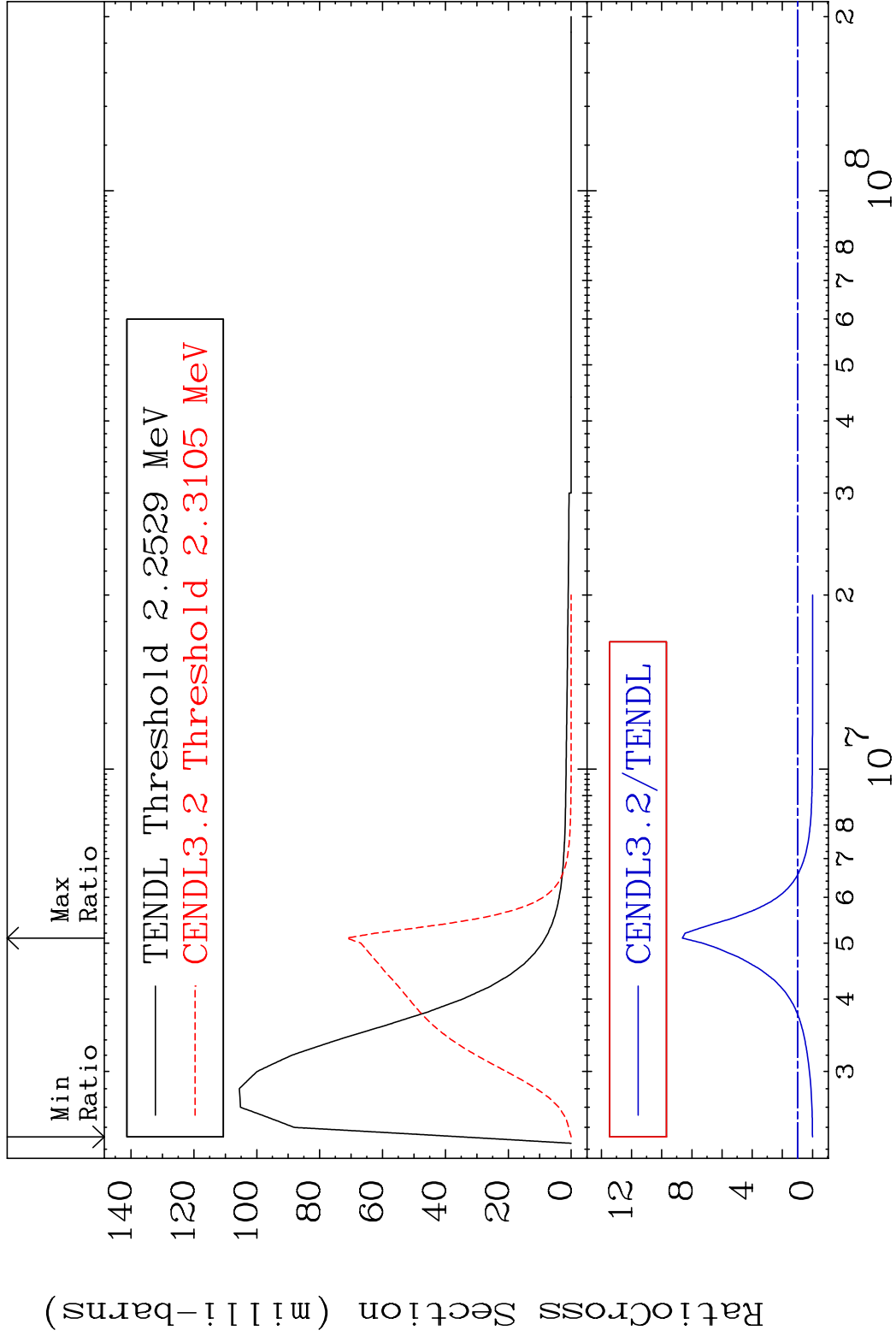
MAT 5831	MT= 58 (n, n') Level	58-Ce-138
	Cross Section	-100.0 To 261.0 %



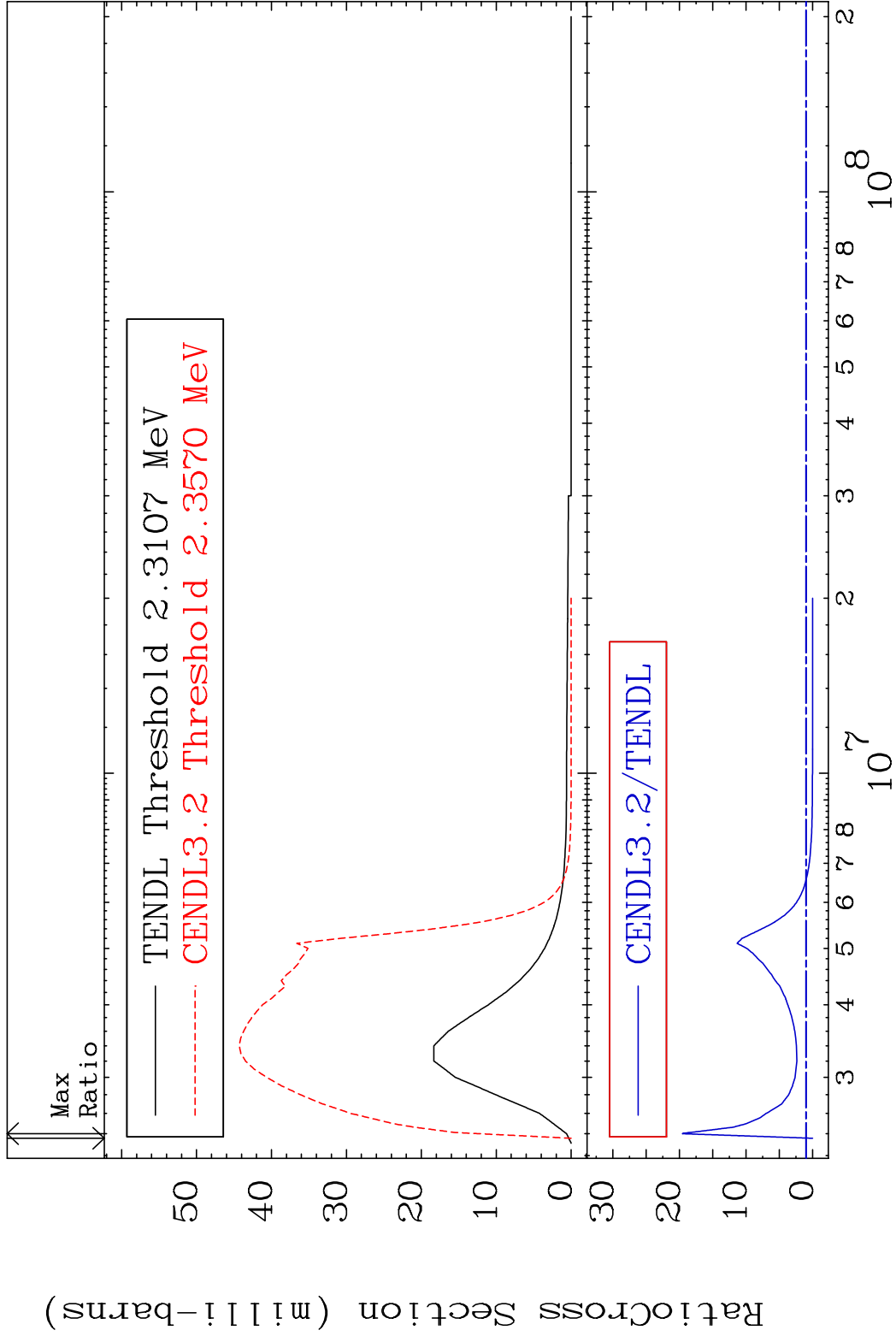
MAT 5831 MT= 59 (n,n') Level 58-Ce-138
Cross Section -100.0 To 5530. %



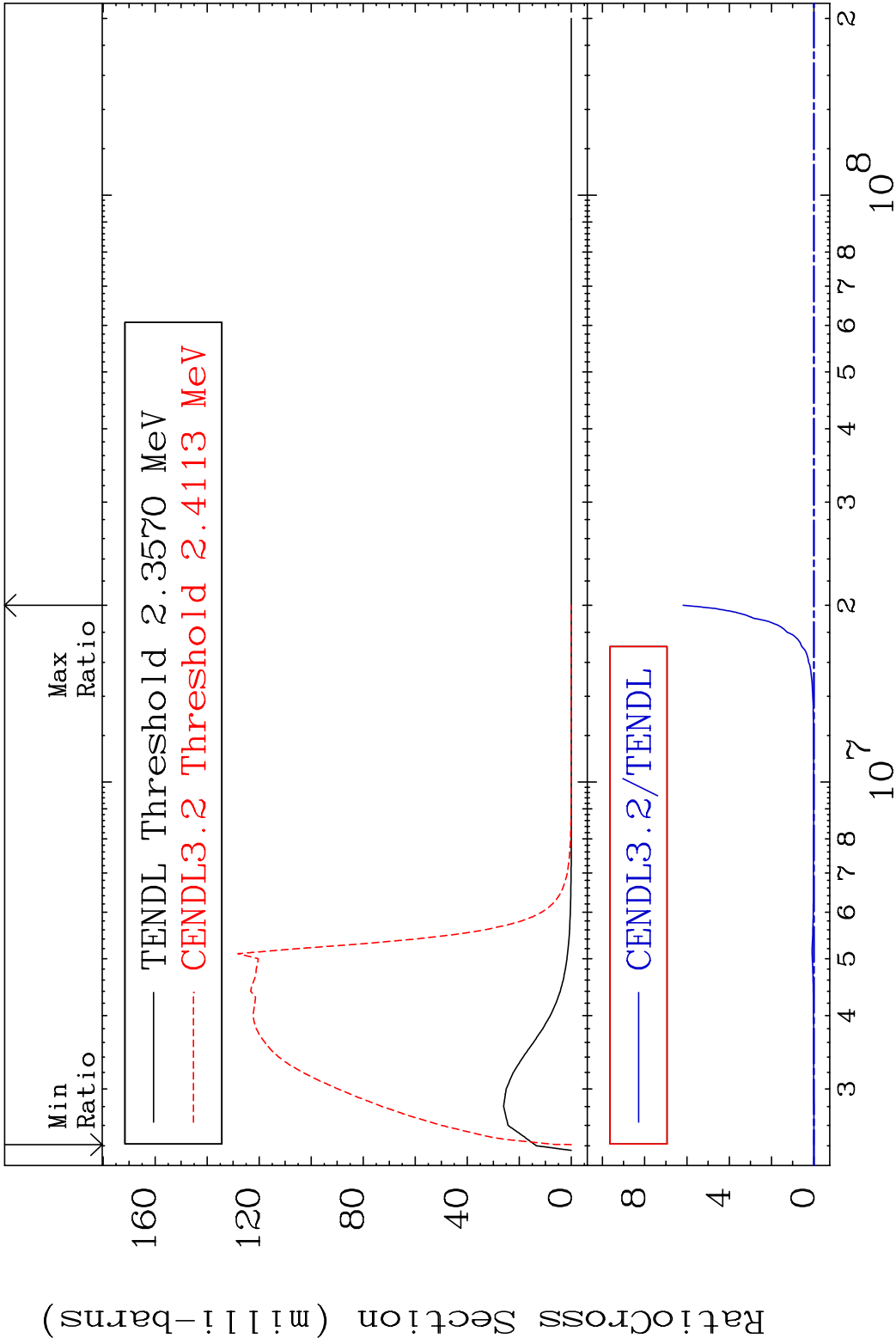
MAT 5831 MT= 60 (n,n') Level 58-Ce-138
Cross Section -100.0 To 763.0 %

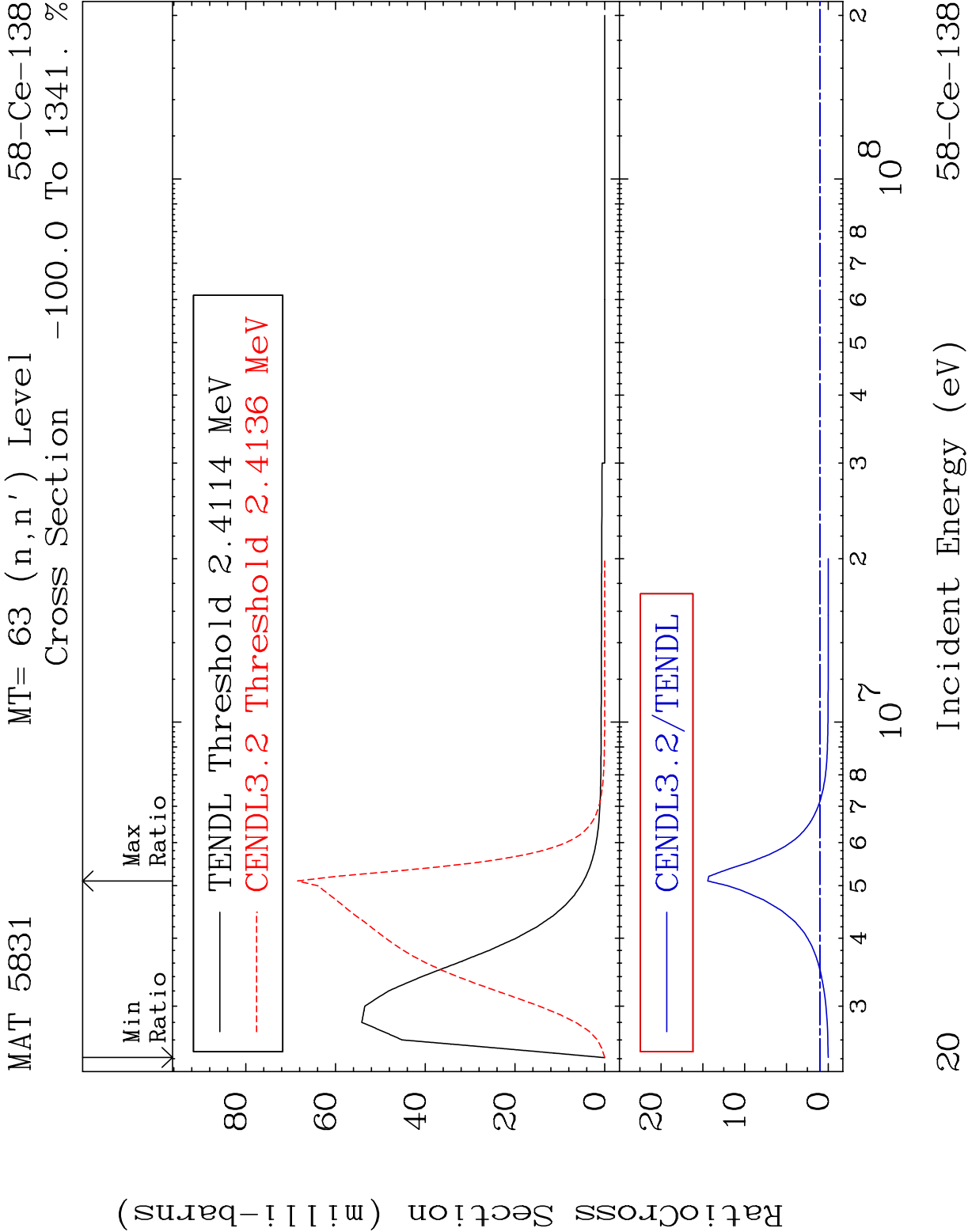


MAT 5831 MT= 61 (n,n') Level 58-Ce-138
Cross Section -100.0 To 1856. %



MAT 5831 MT= 62 (n,n') Level 58-Ce-138
Cross Section -100.0 To 9999. %





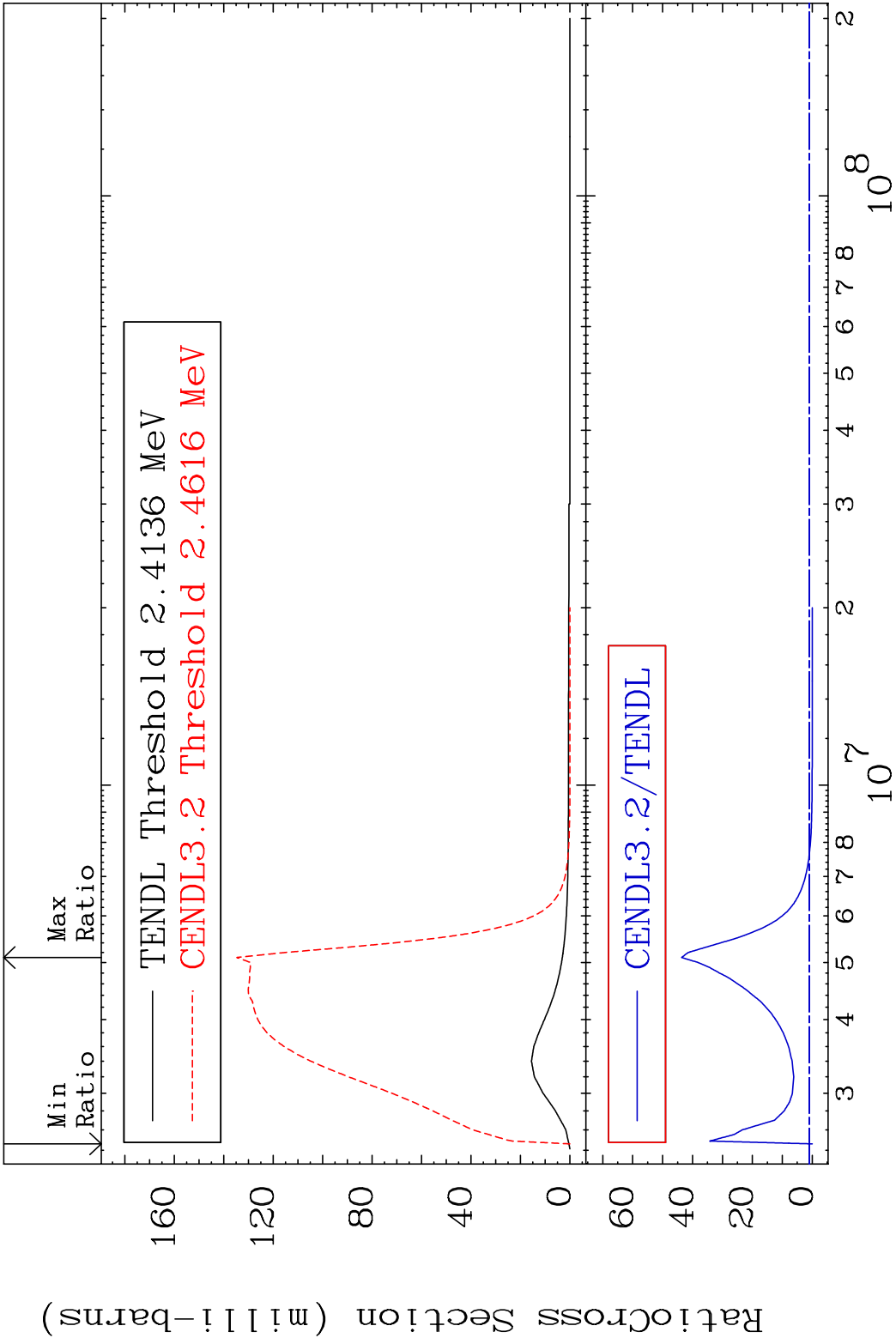
MAT 5831

MT= 64 (n,n') Level

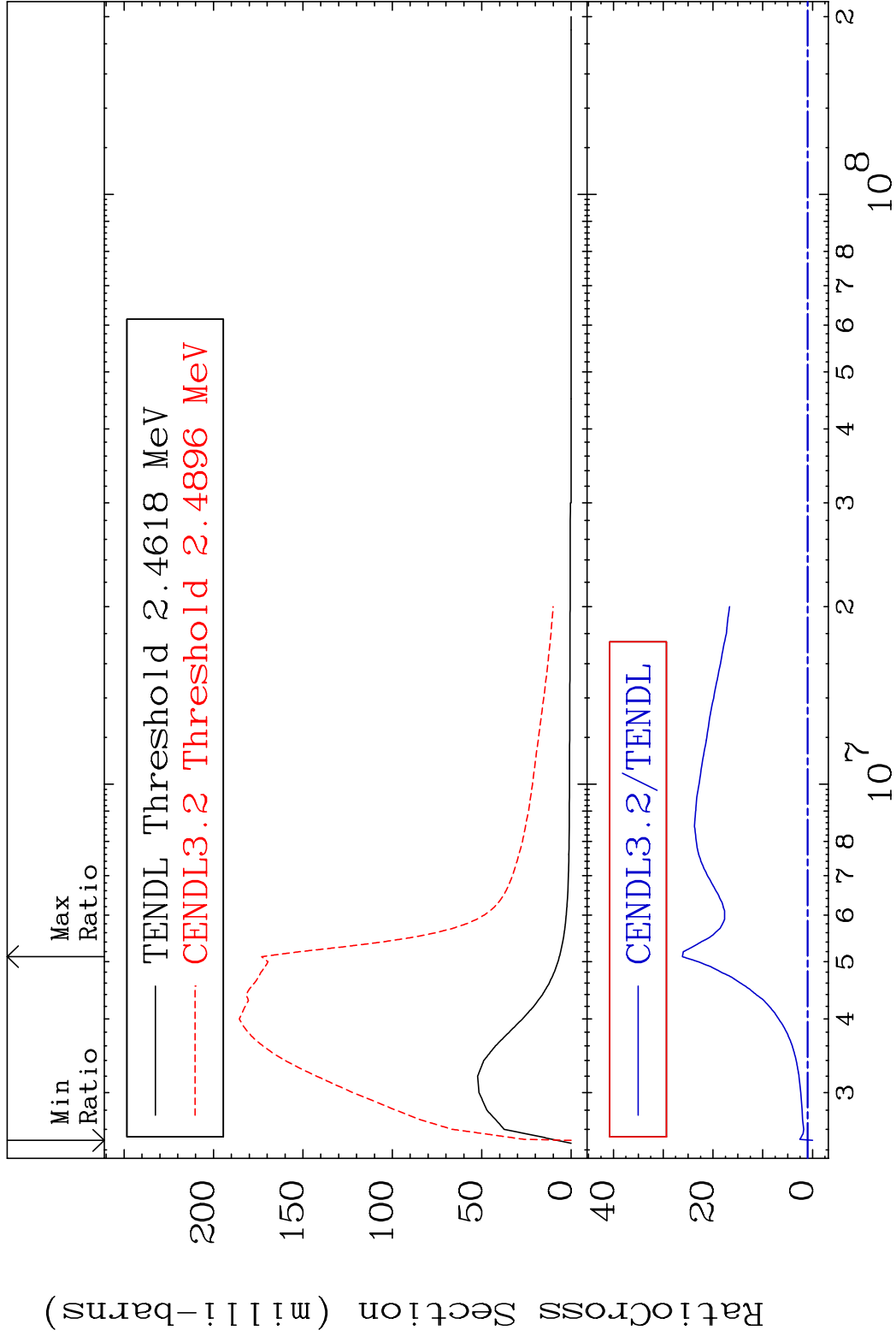
58-Ce-138

Cross Section

-100.0 To 4268. %



MAT 5831 MT= 65 (n,n') Level 58-Ce-138
Cross Section -100.0 To 2515. %



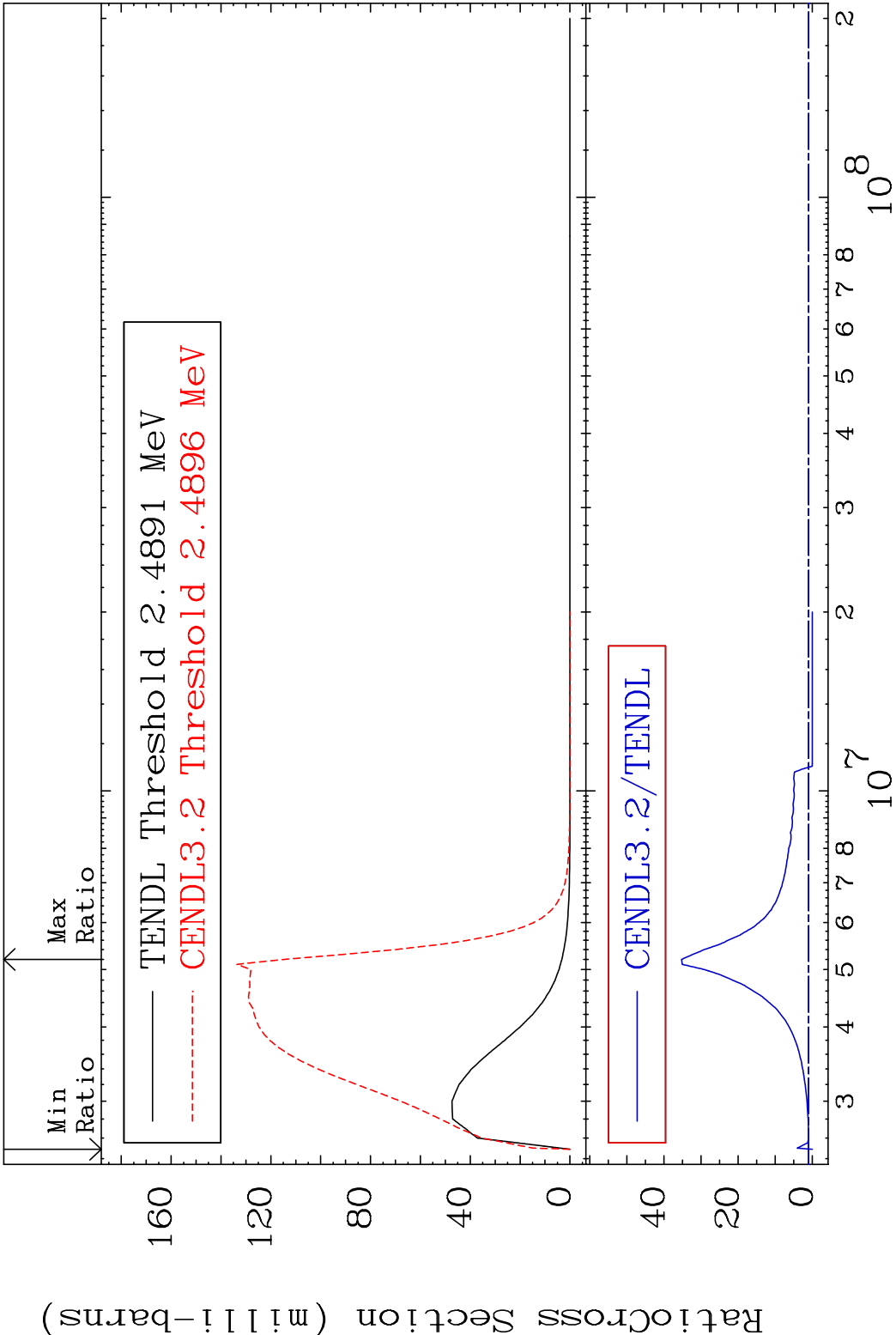
MAT 5831

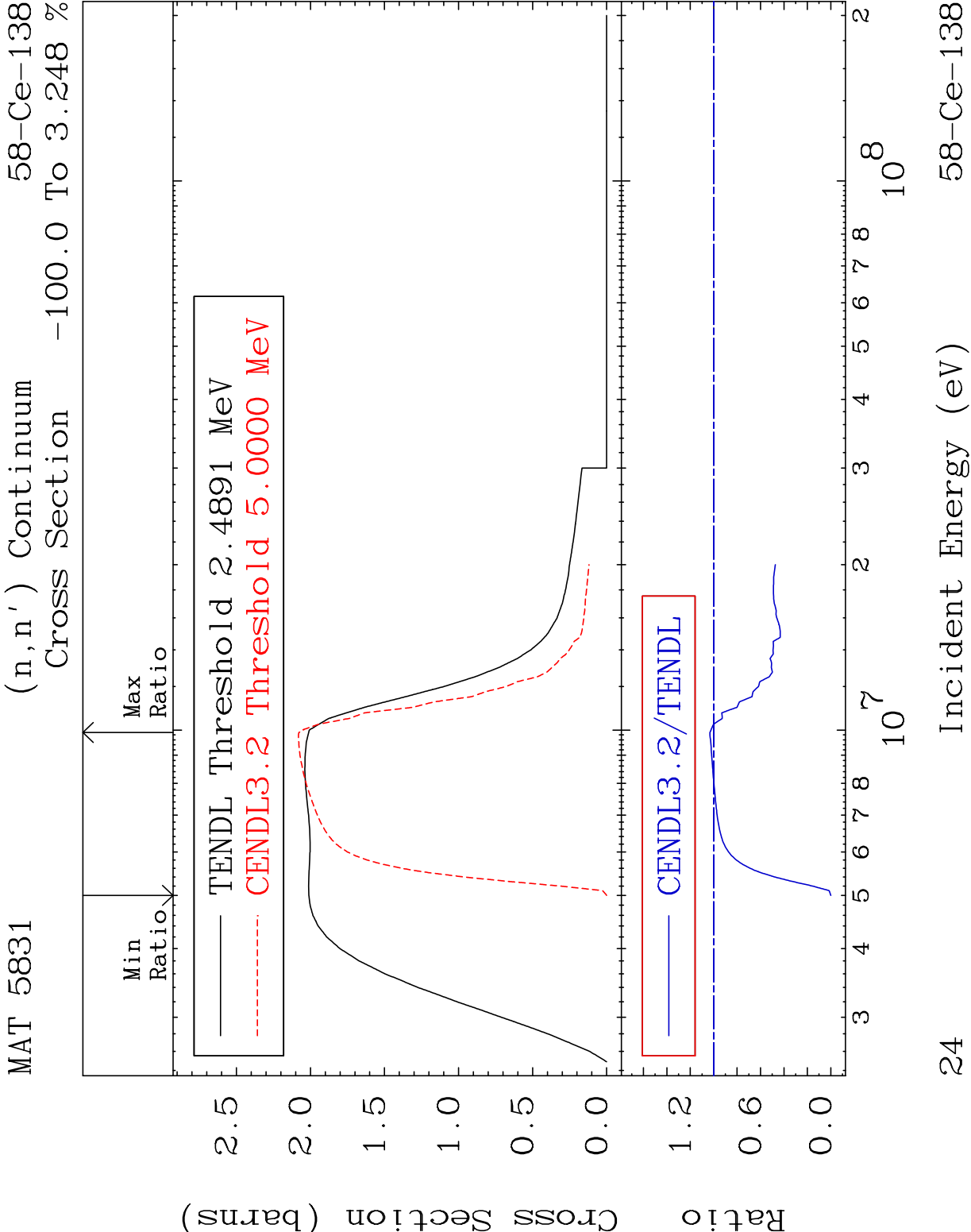
MT= 66 (n,n') Level

58-Ce-138

Cross Section

-100.0 To 3425. %



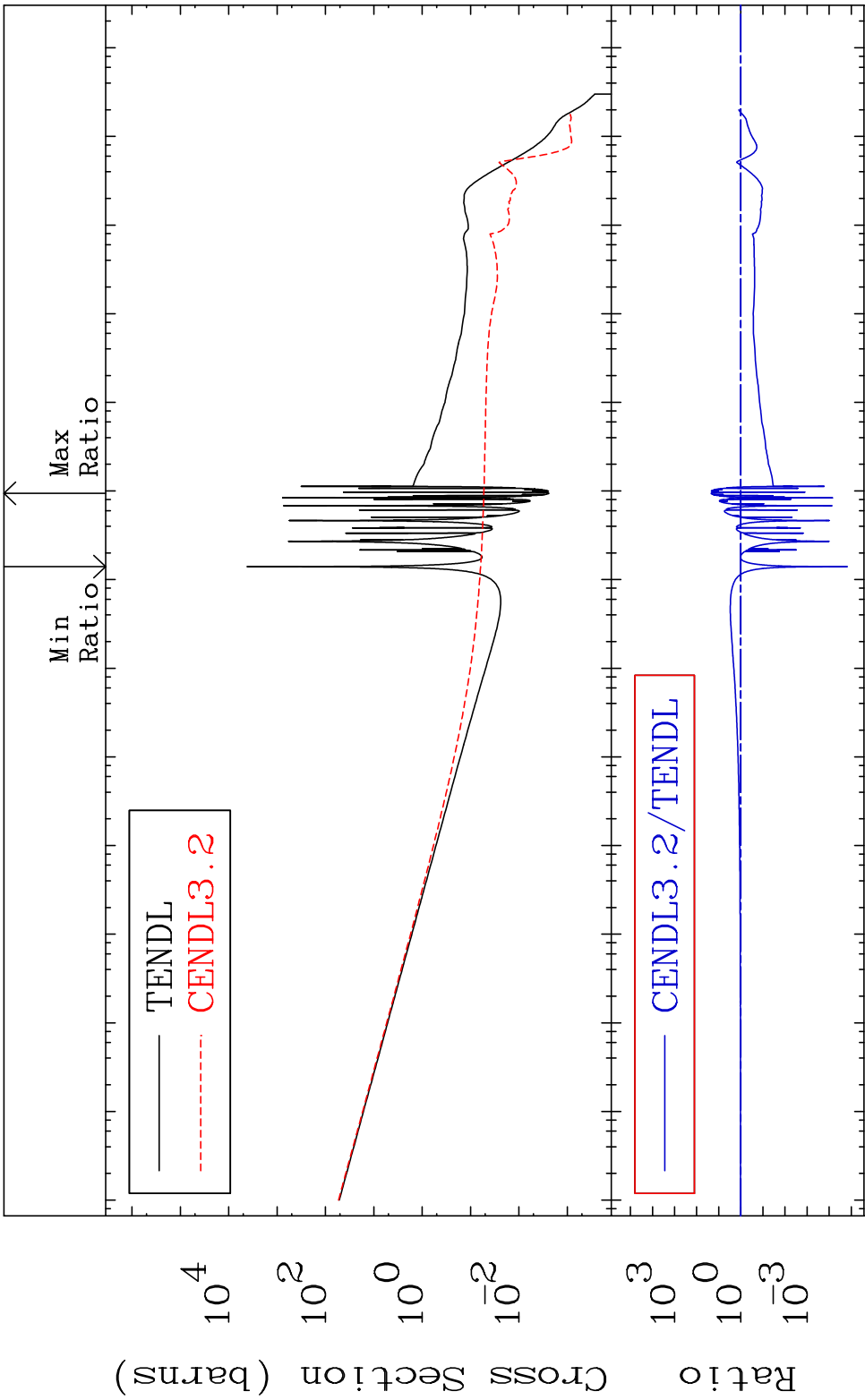


MAT 5831

(n, γ)

58-Ce-138

Cross Section -100.0 To 2123. %



25

Incident Energy (eV)

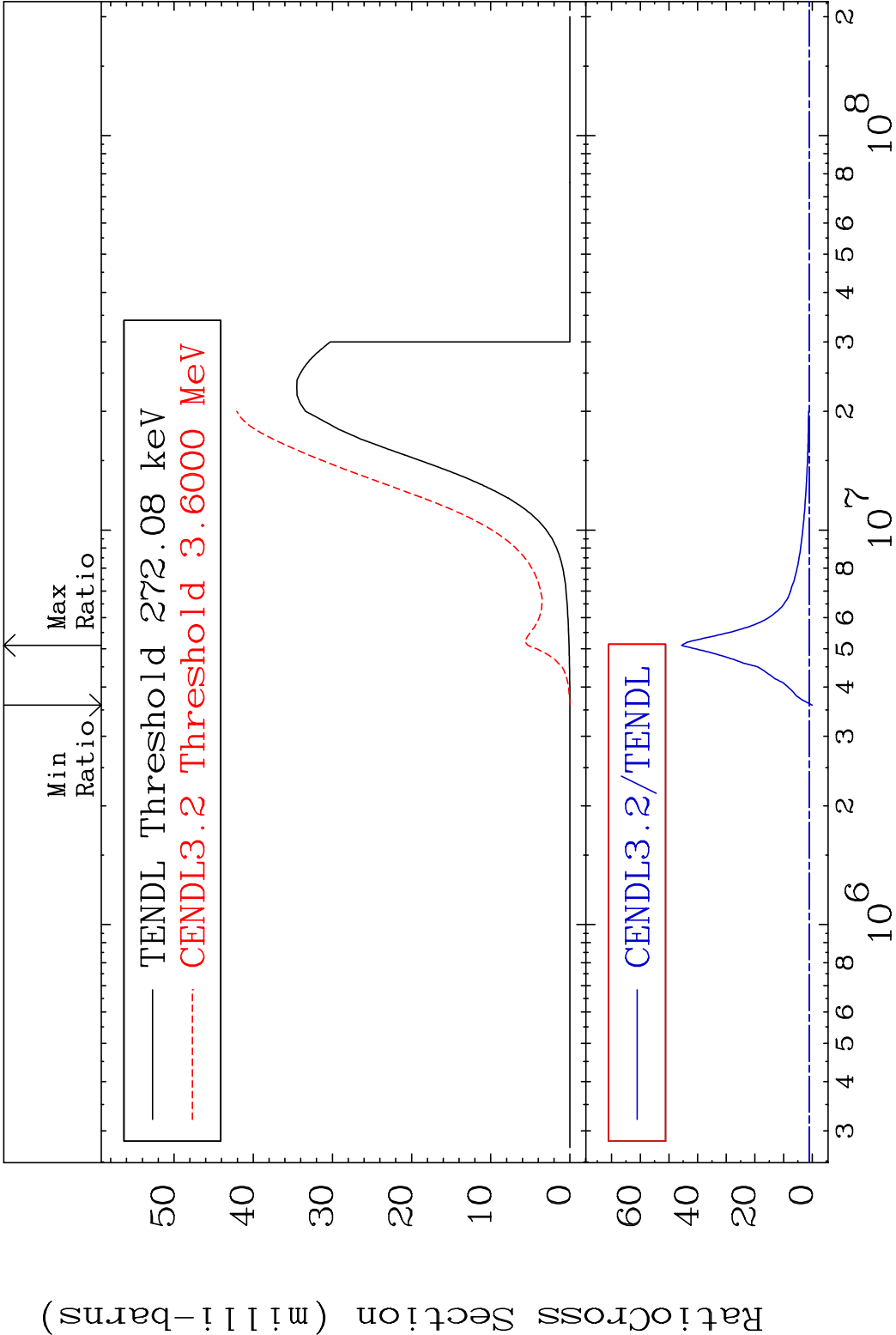
58-Ce-138

MAT 5831

(n,p)

58-Ce-138

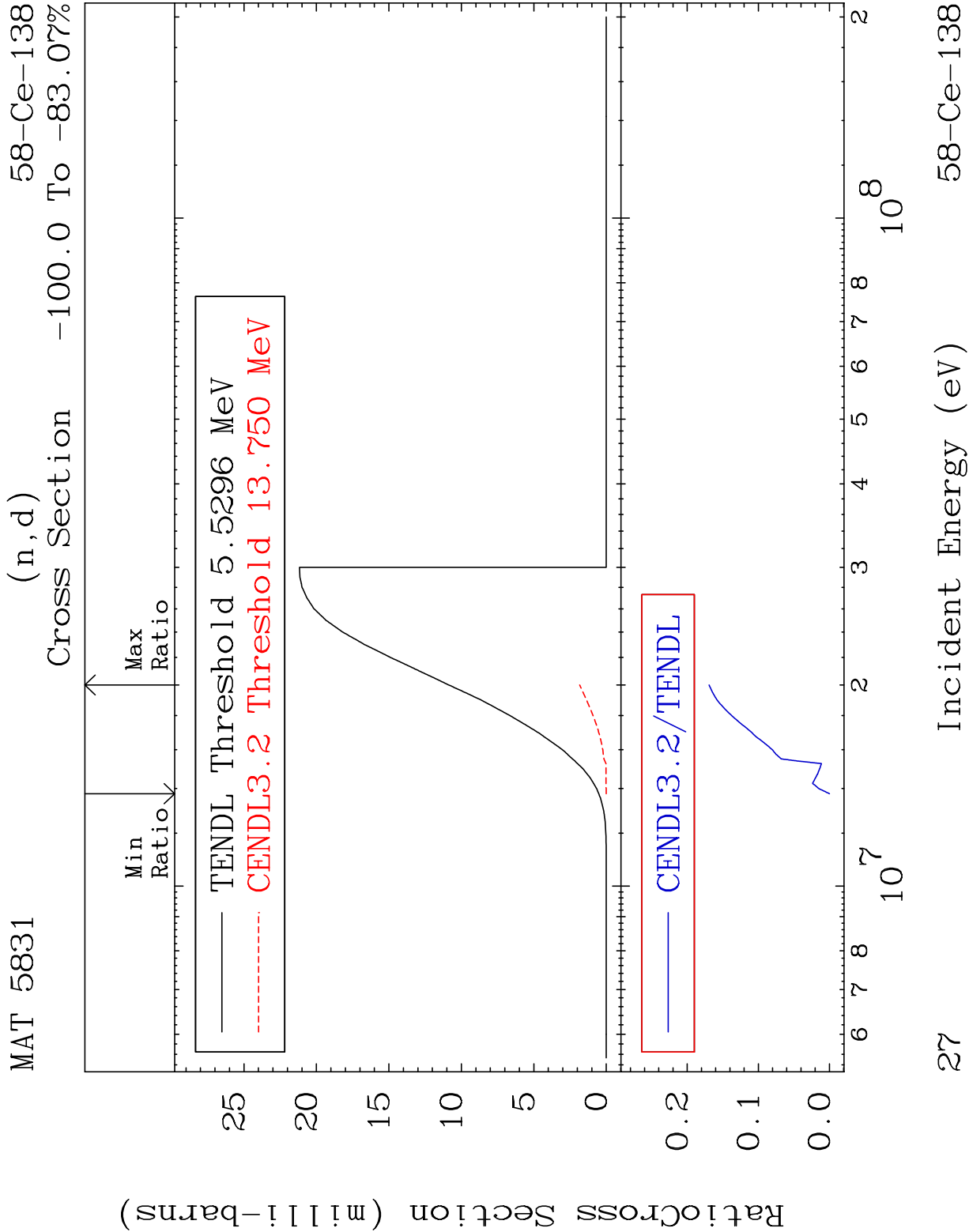
Cross Section -100.0 To 4460. %

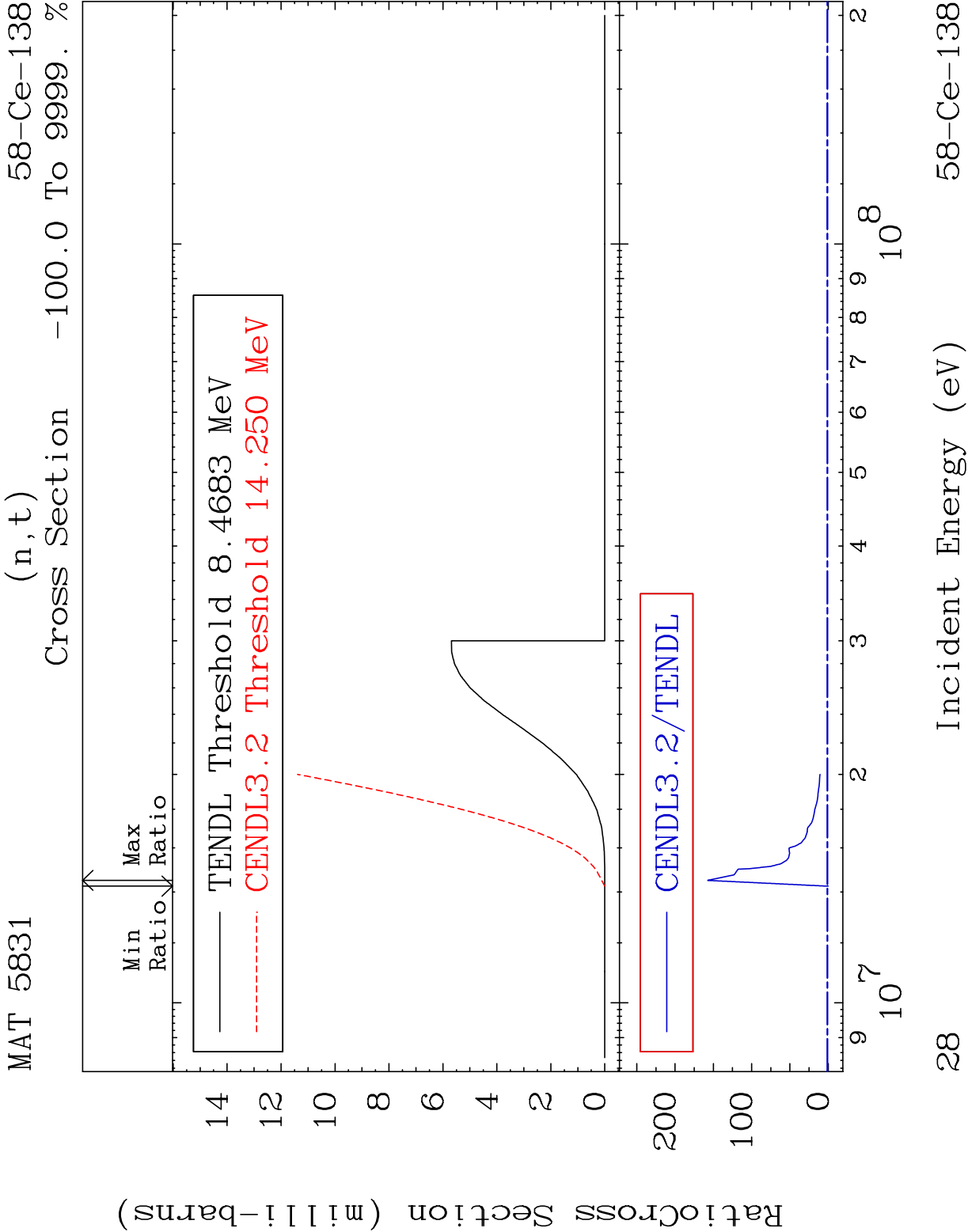


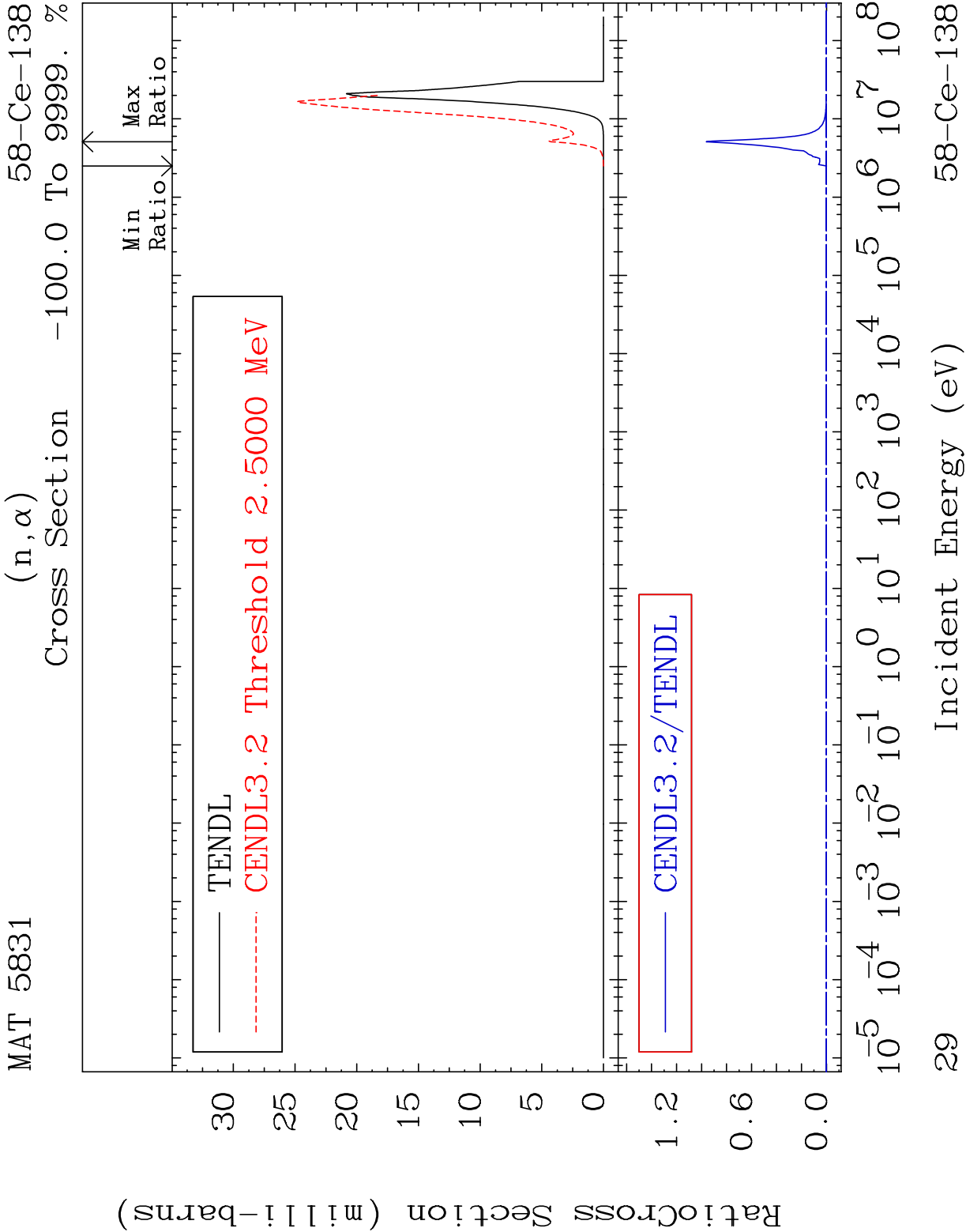
26

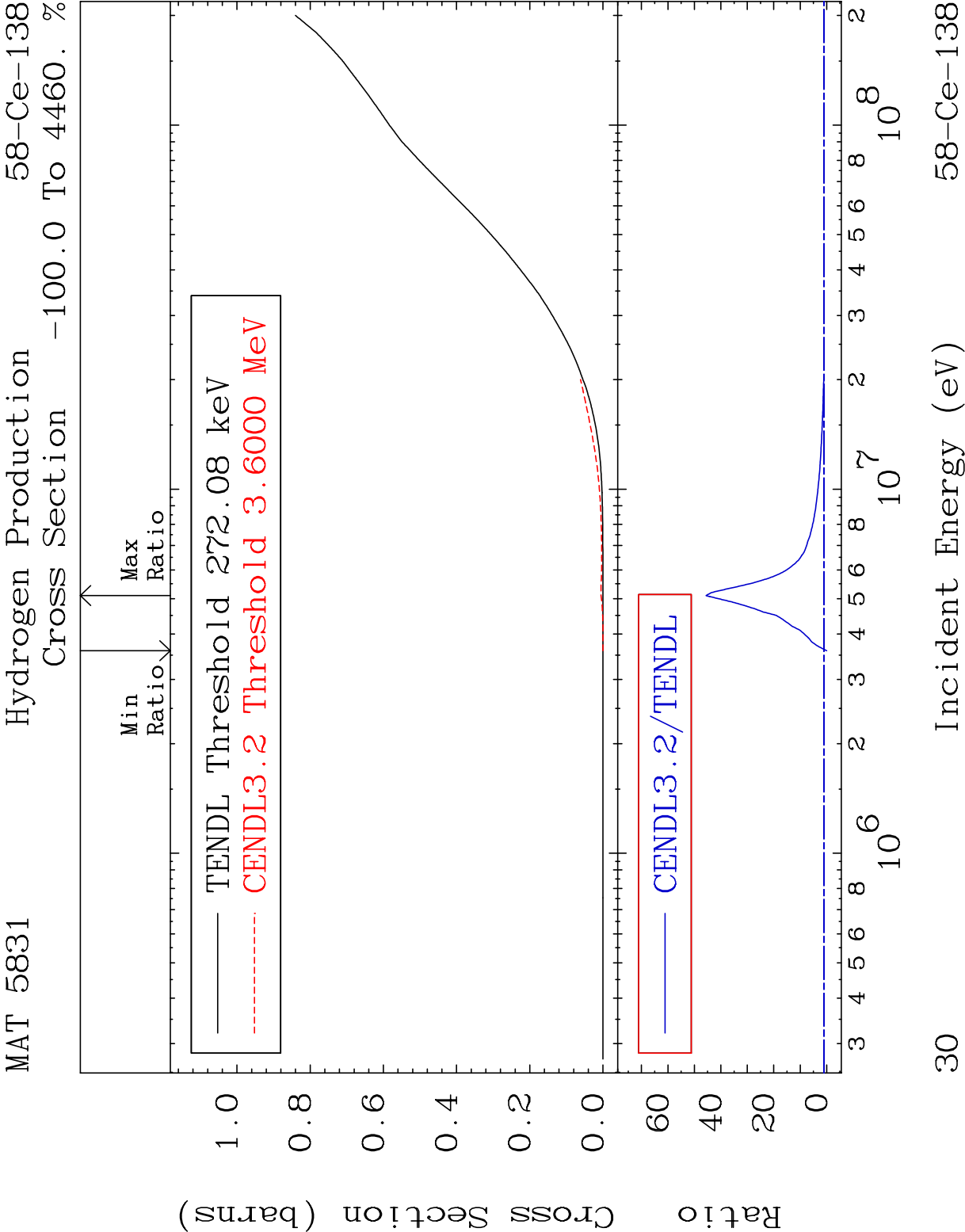
Incident Energy (eV)

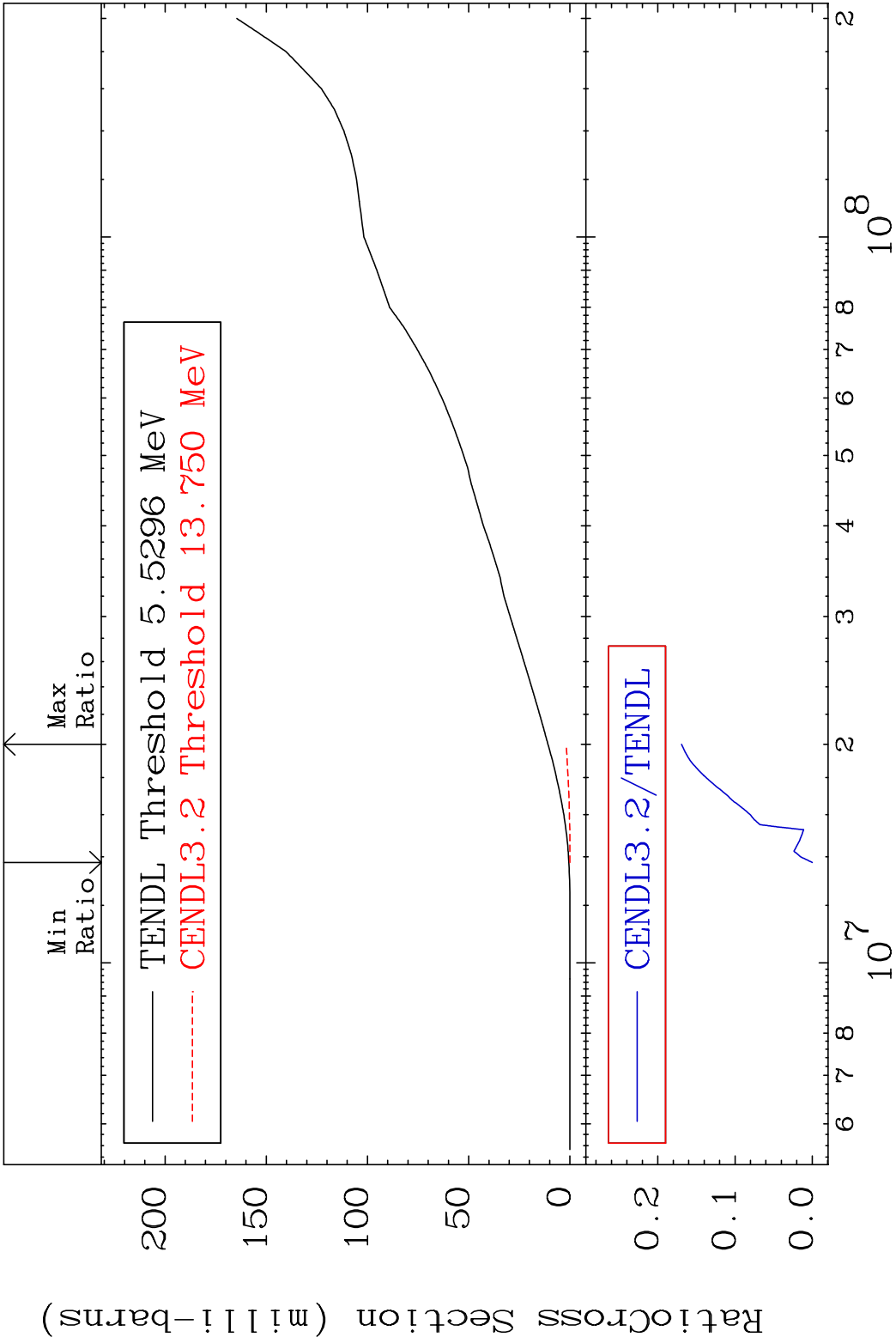
58-Ce-138



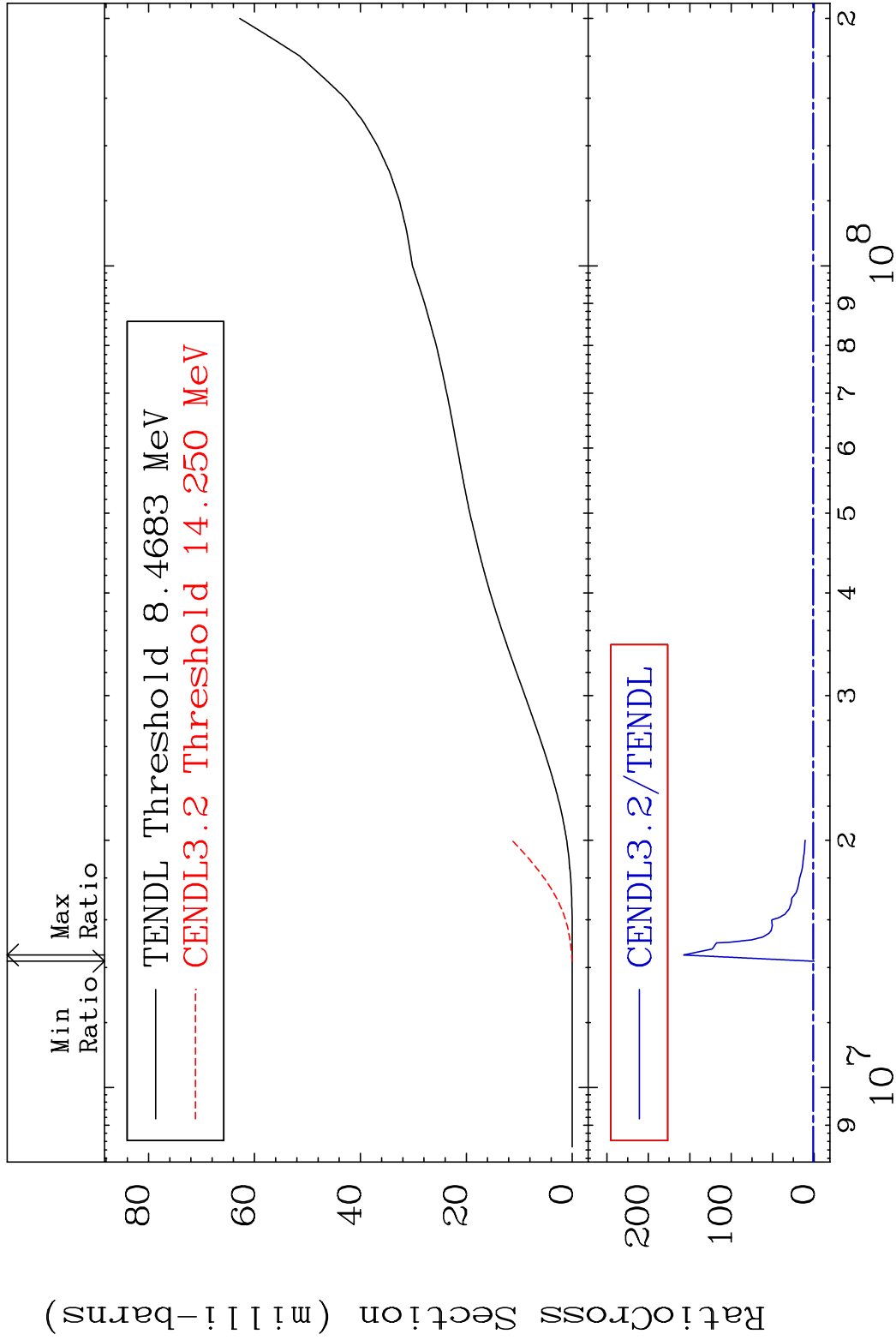




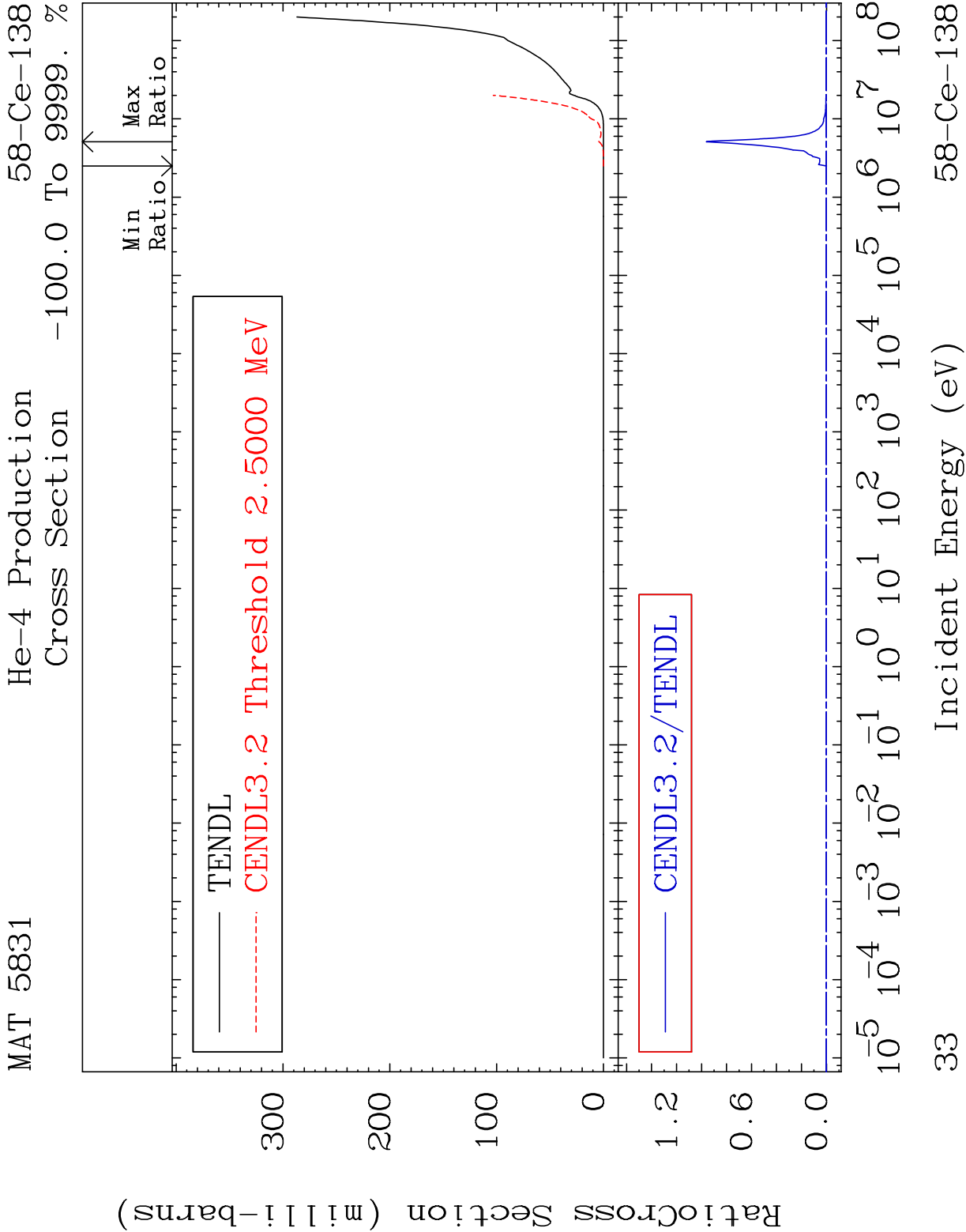




MAT 5831 Tritium Production 58-Ce-138
Cross Section -100.0 To 9999. %

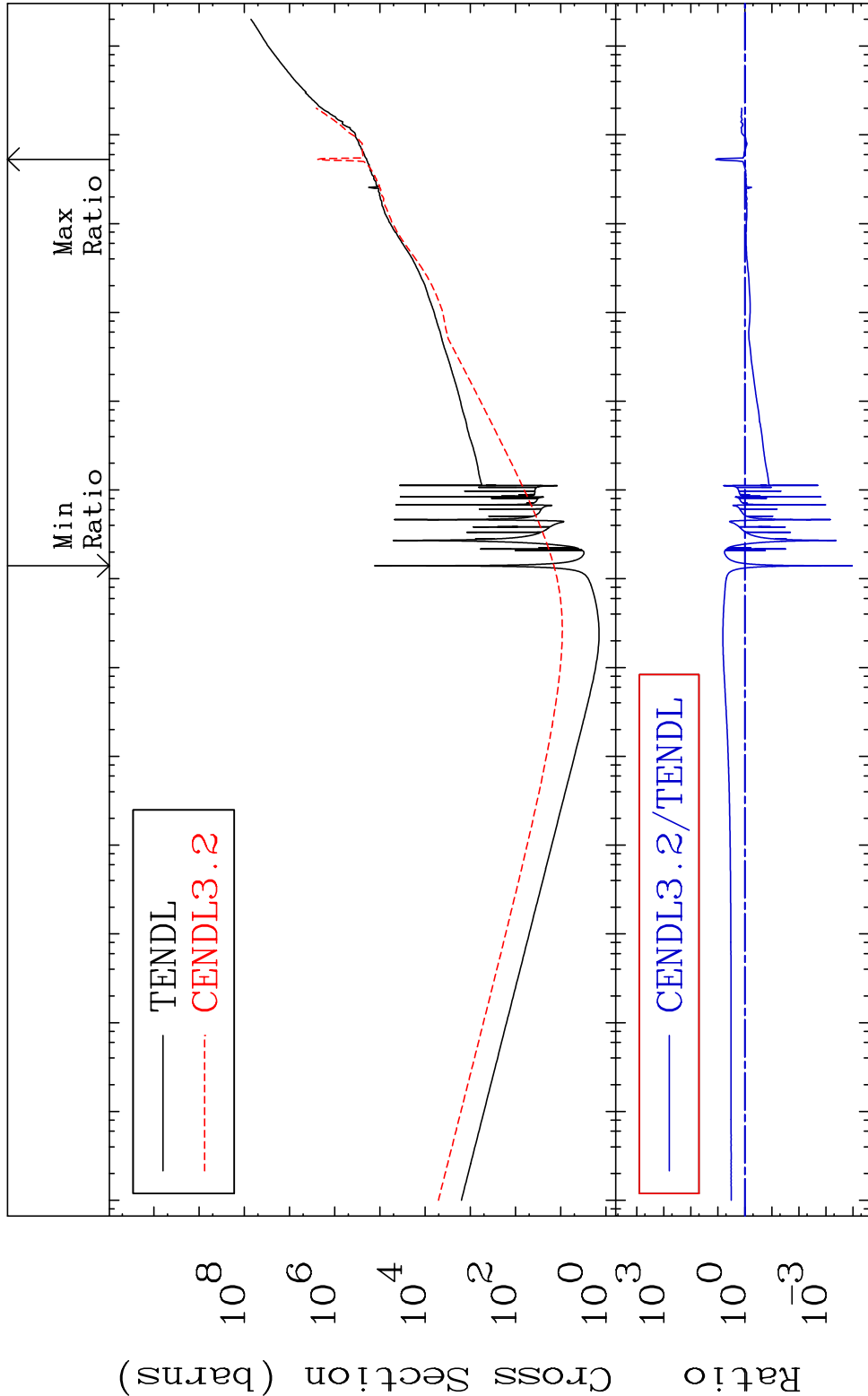


32 Incident Energy (eV) 58-Ce-138



MAT 5831 Kerma total (eV-barns) 58-Ce-138

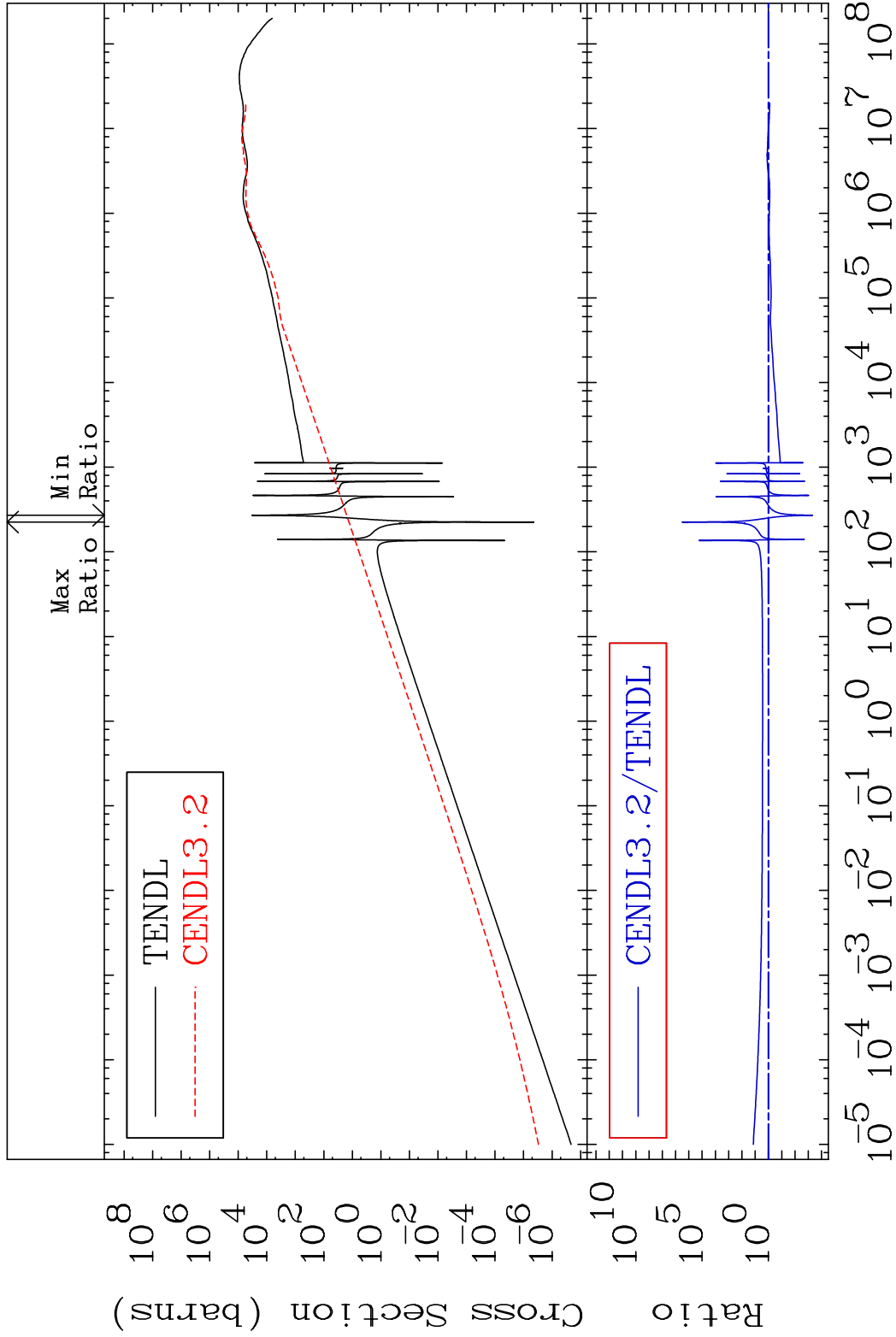
Cross Section -99.99 To 1104. %



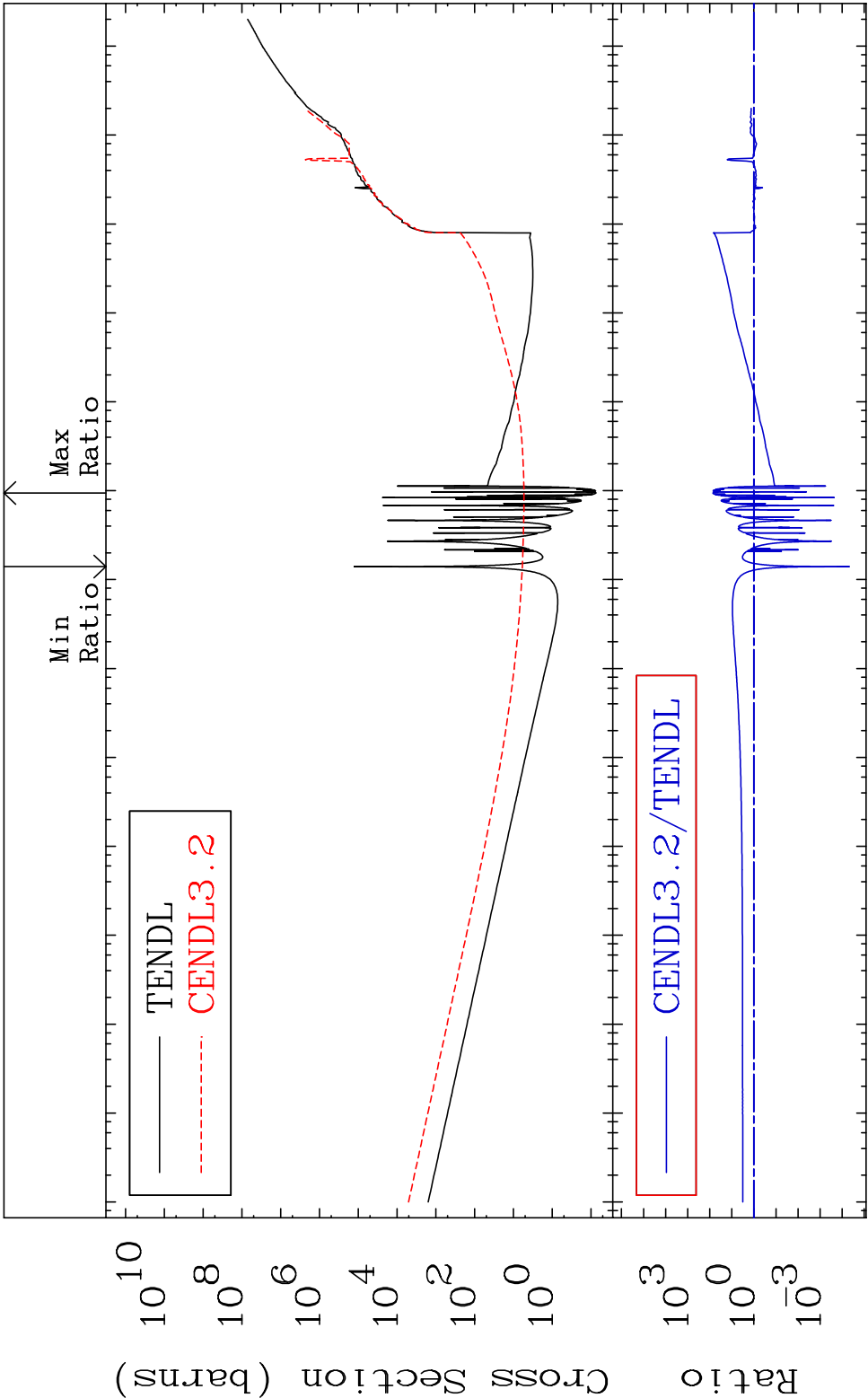
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

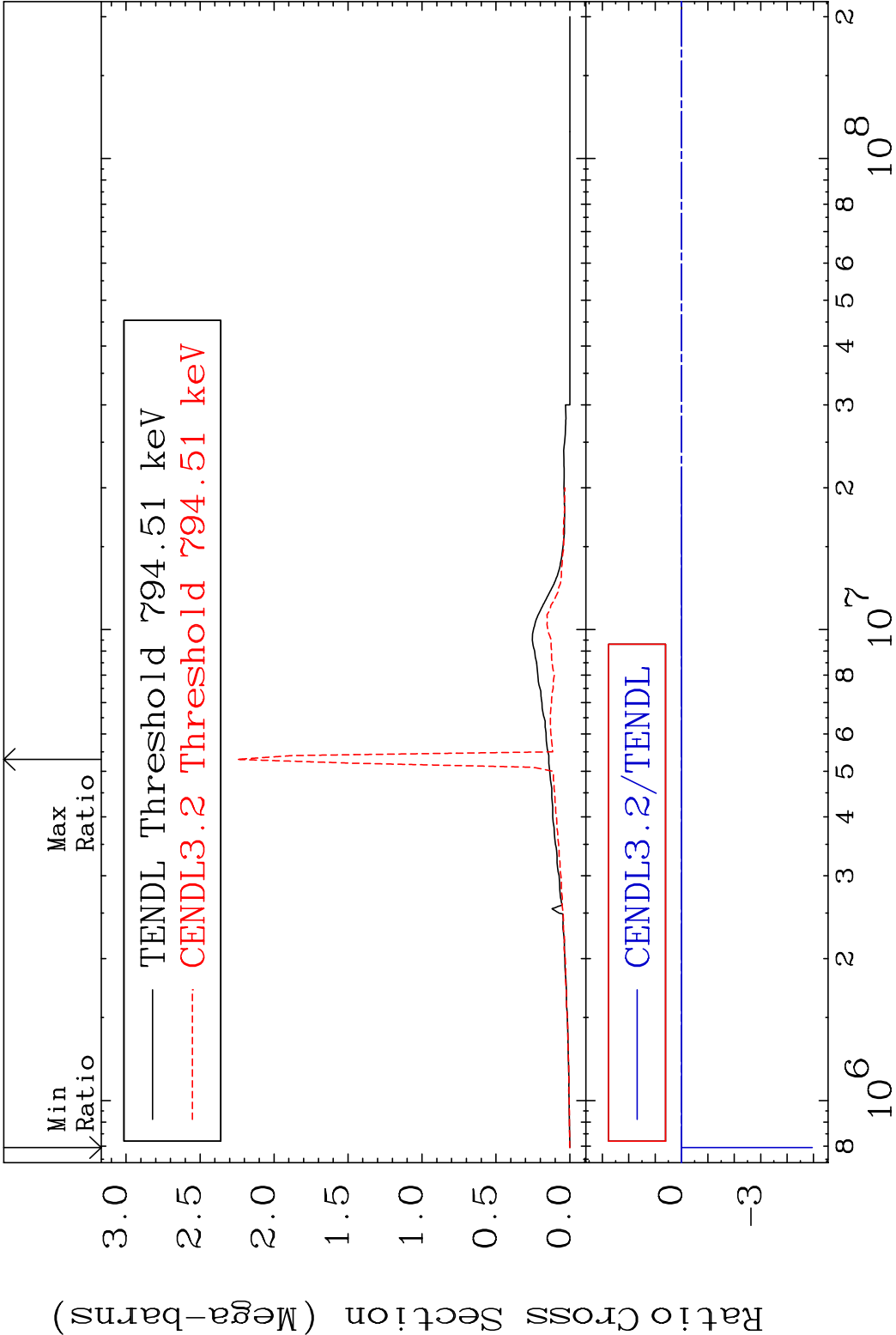
34 Incident Energy (eV) 58-Ce-138

MAT 5831	Kerma elastic	58-Ce-138
	Cross Section	-99.95 To 9999. %

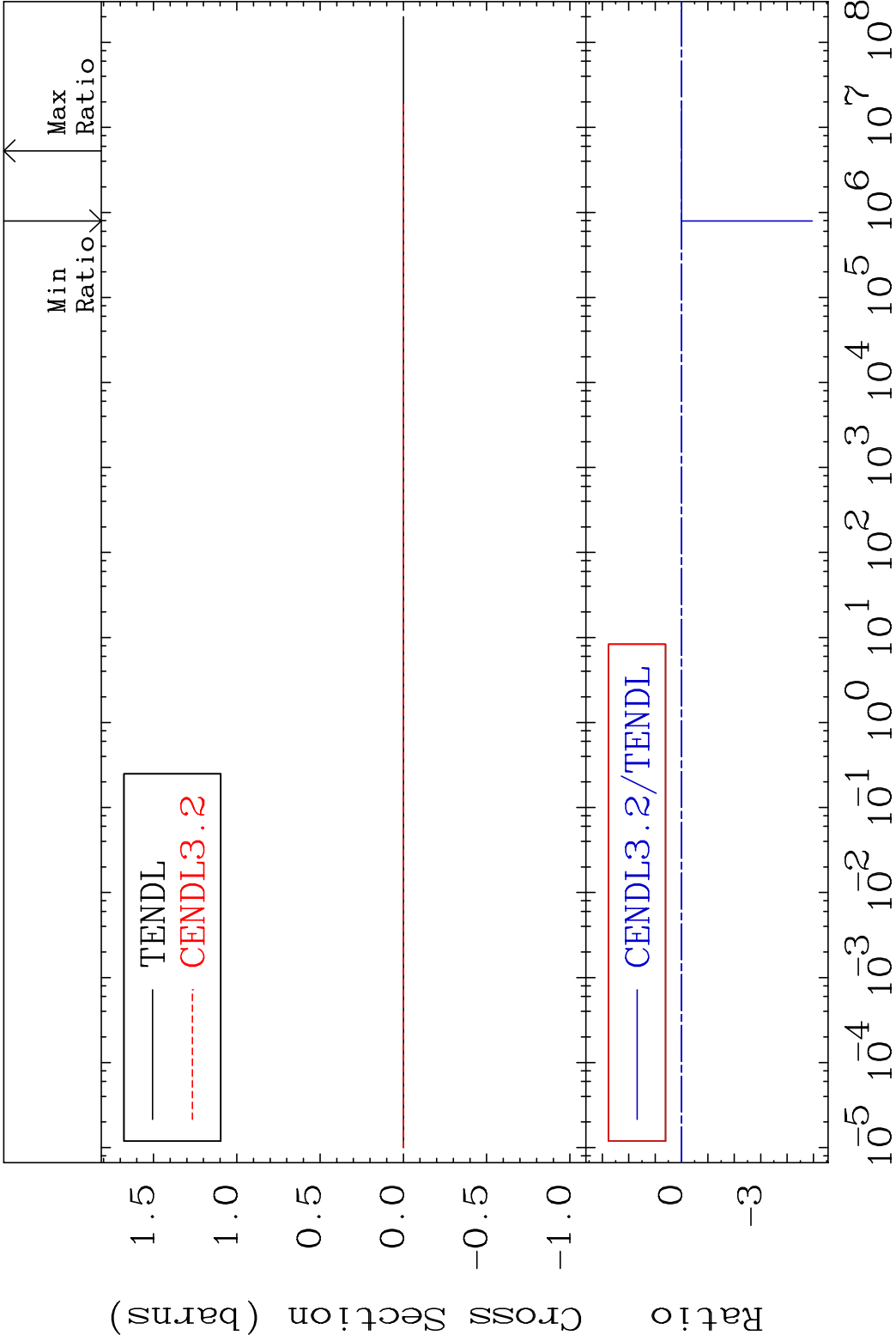


MAT 5831 Kerma non-elastic (all but mt2) 58-Ce-138
 Cross Section -100.0 To 7172. %





MAT 5831 Kerma fission (mt18 or mt19-20-21-38)58-Ce-138
Cross Section -9999. To 1480. %



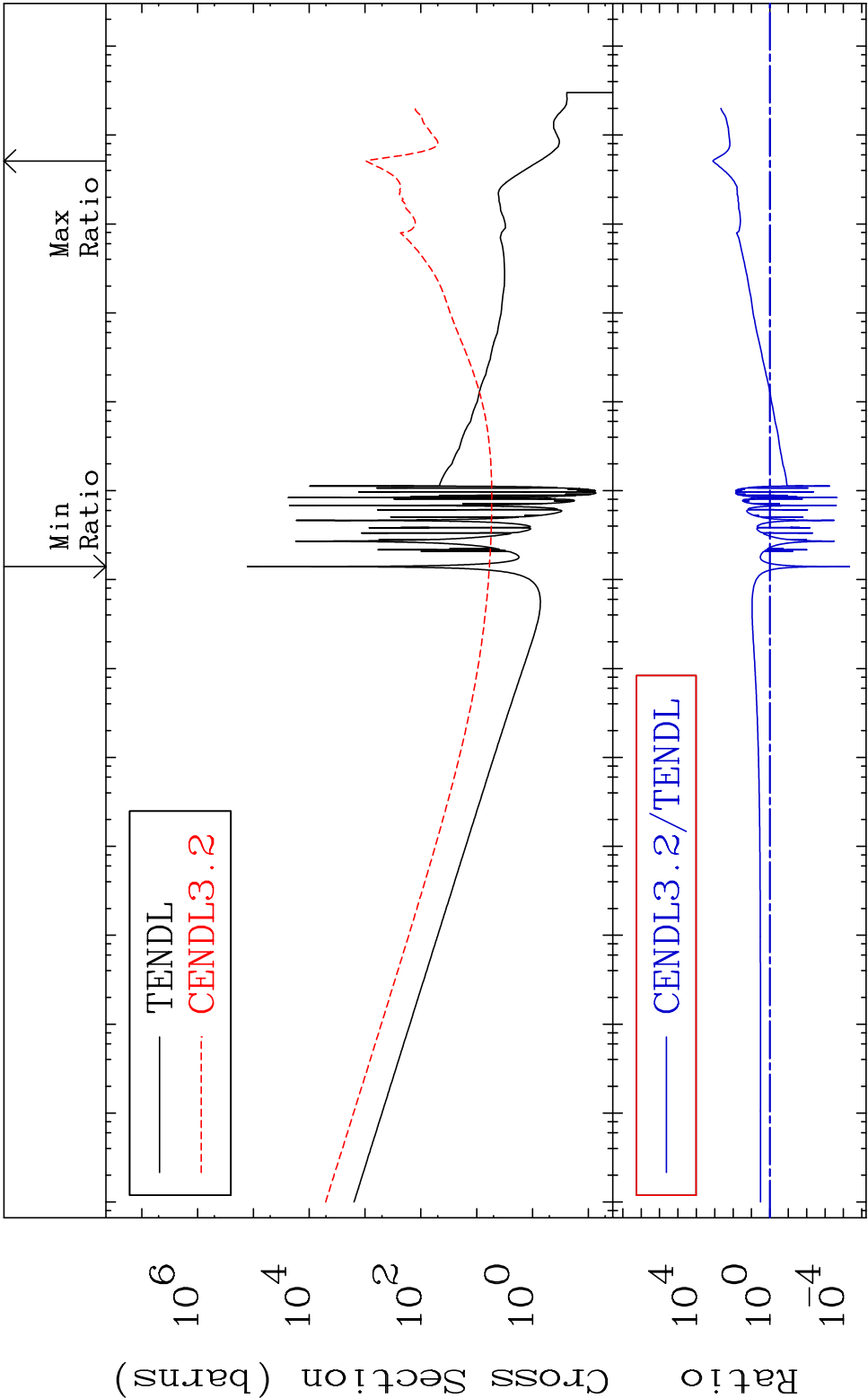
MAT 5831

Kerma capture (mt102)

58-Ce-138

Cross Section

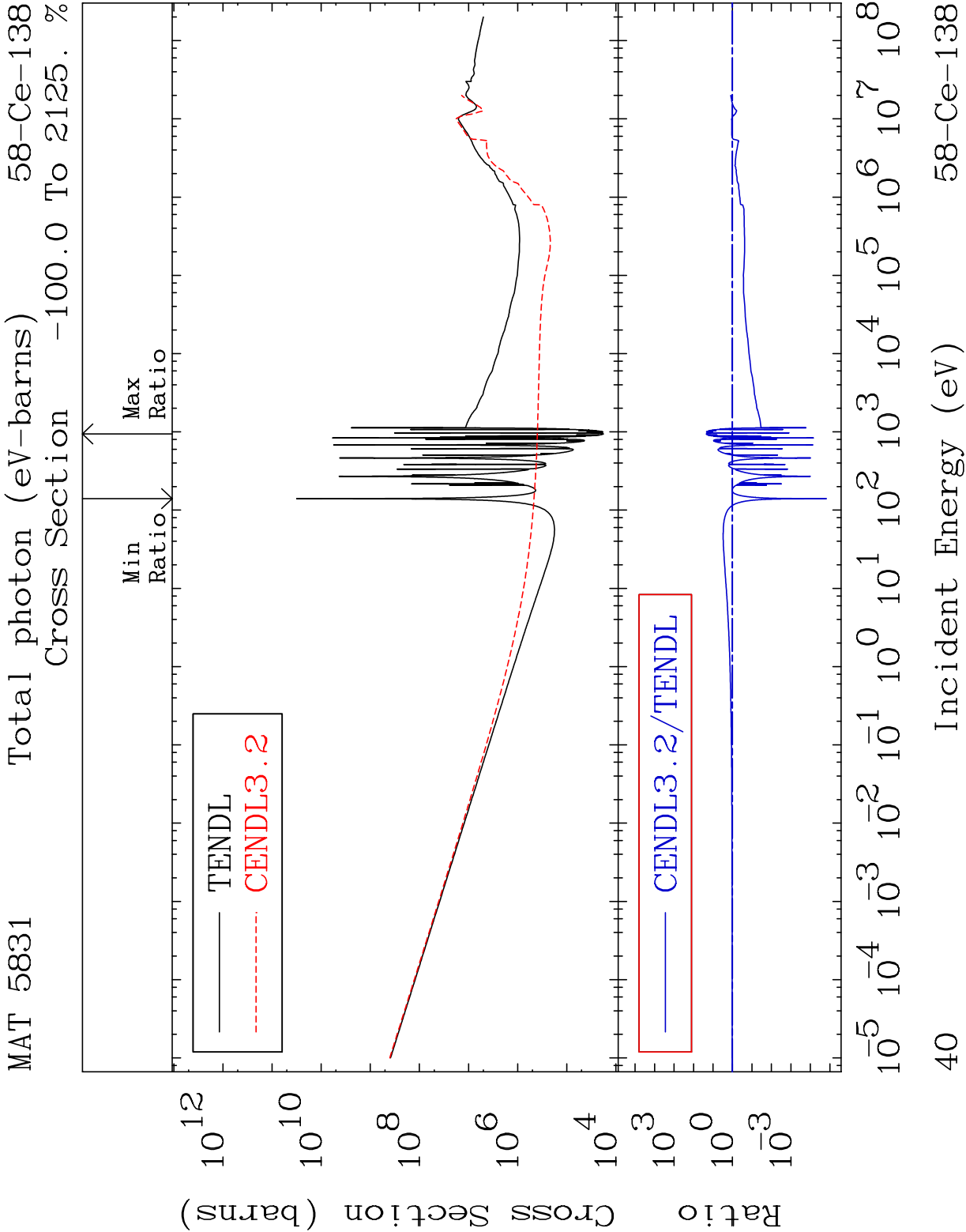
-100.0 To 9999. %



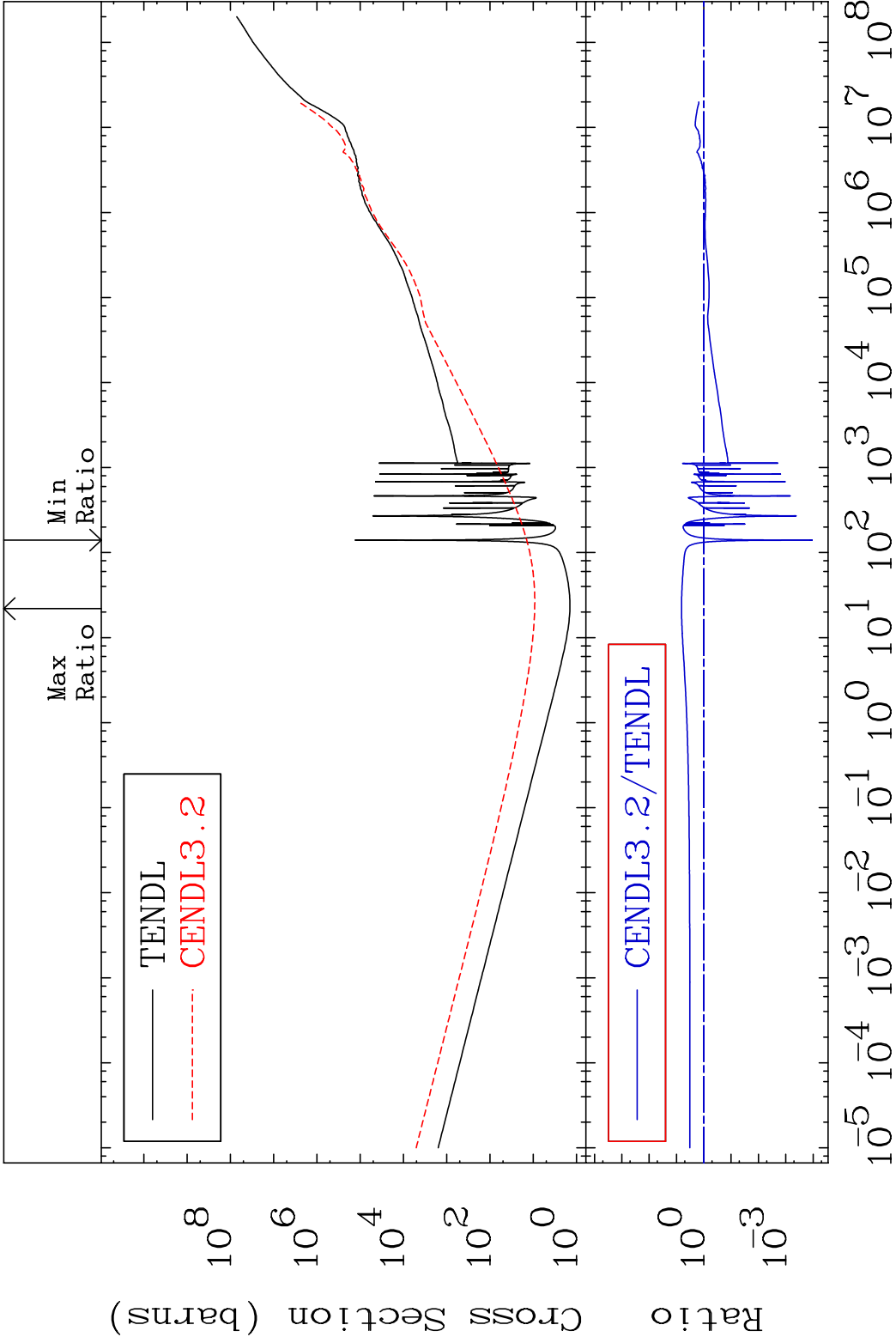
39

Incident Energy (eV)

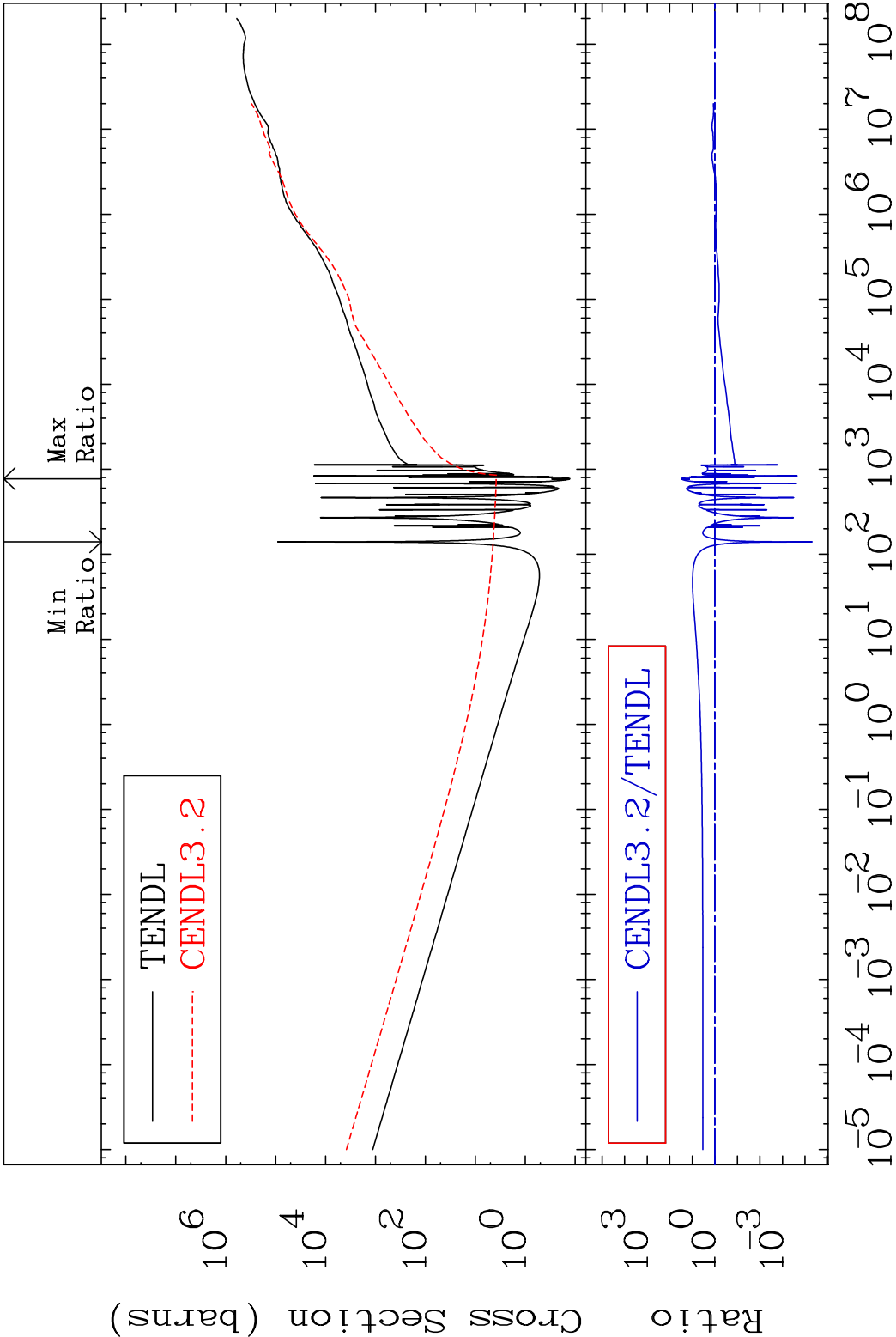
58-Ce-138



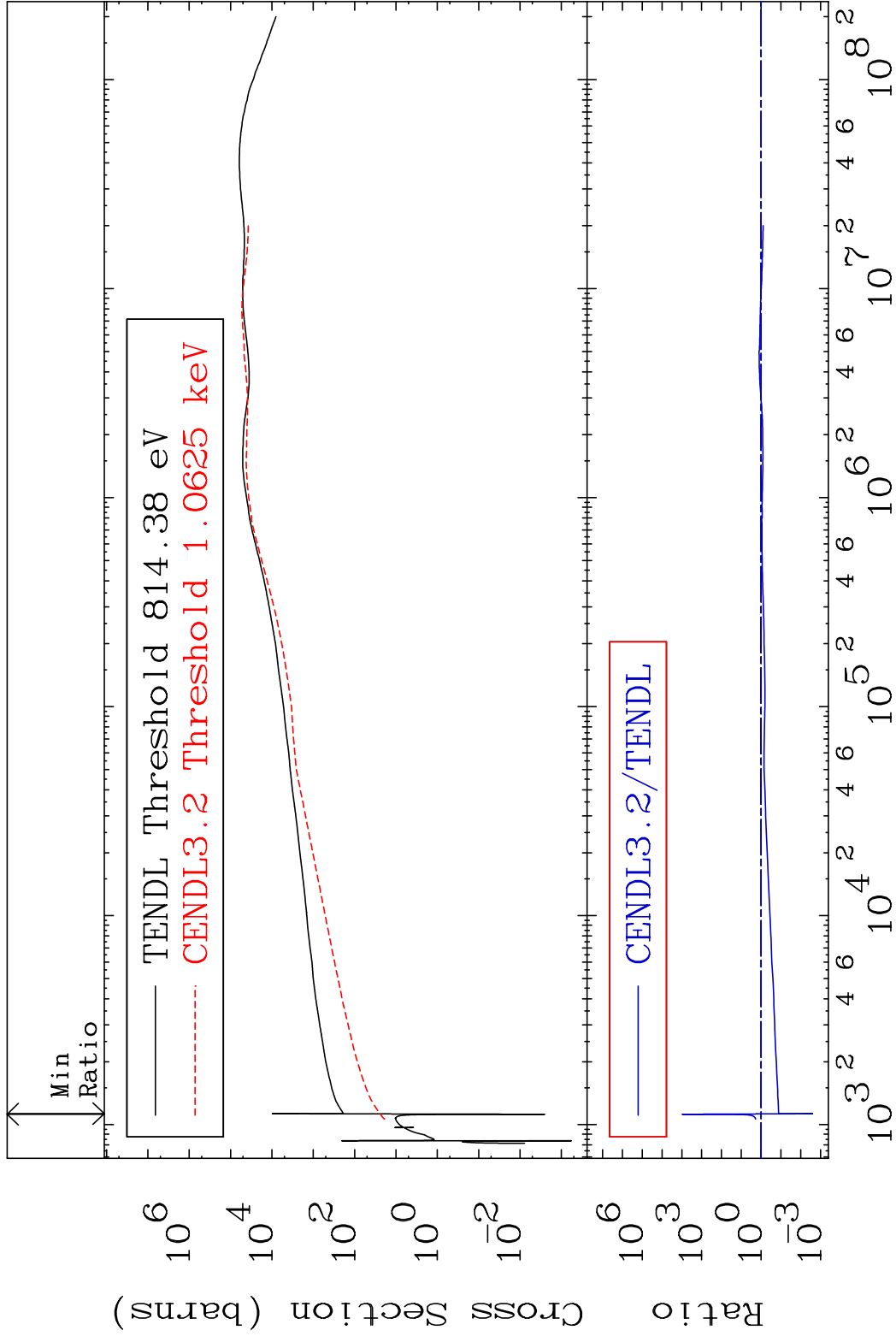
MAT 5831 Total kinematic kerma (high limit) 58-Ce-138
Cross Section -99.99 To 552.7 %



MAT 5831	Dpa total (eV-barns)	58-Ce-138
	Cross Section	-100.0 To 2889. %

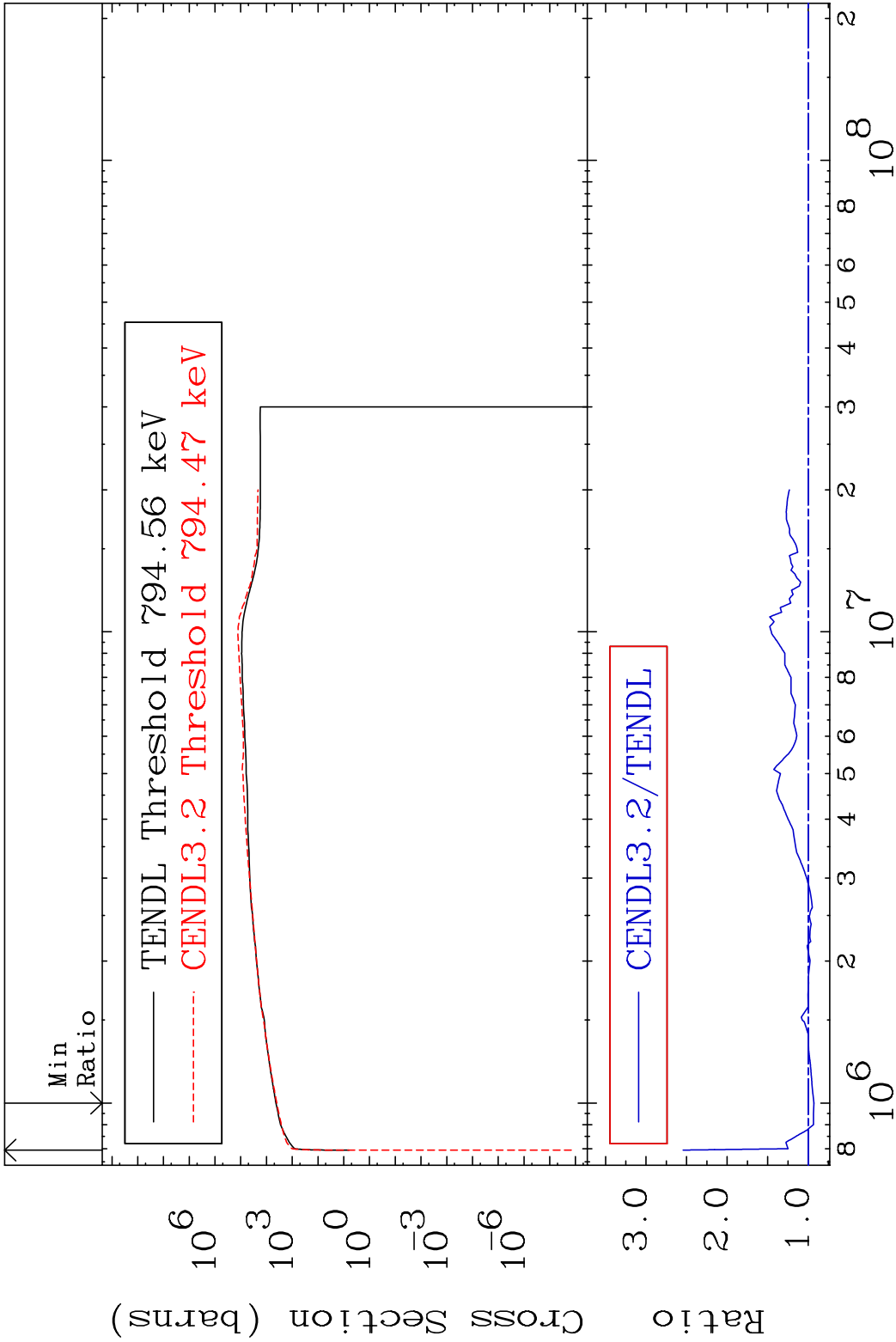


MAT 5831 Dpa elastic (mt2) 58-Ce-138
Cross Section -99.75 To 9999. %

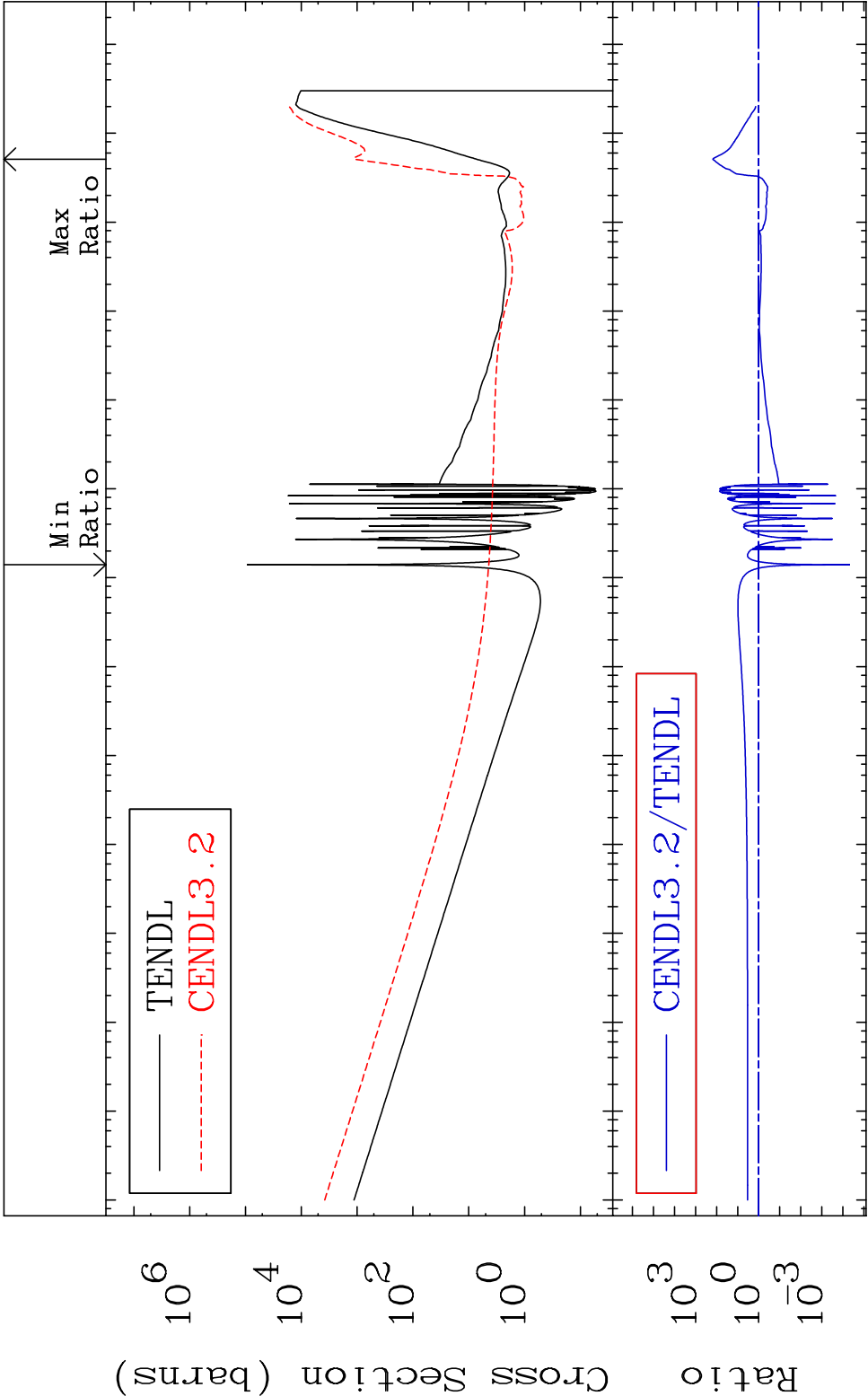


43 Incident Energy (eV) 58-Ce-138

MAT 5831 Dpa inelastic (mt51-91) 58-Ce-138
Cross Section -7.017 To 154.4 %

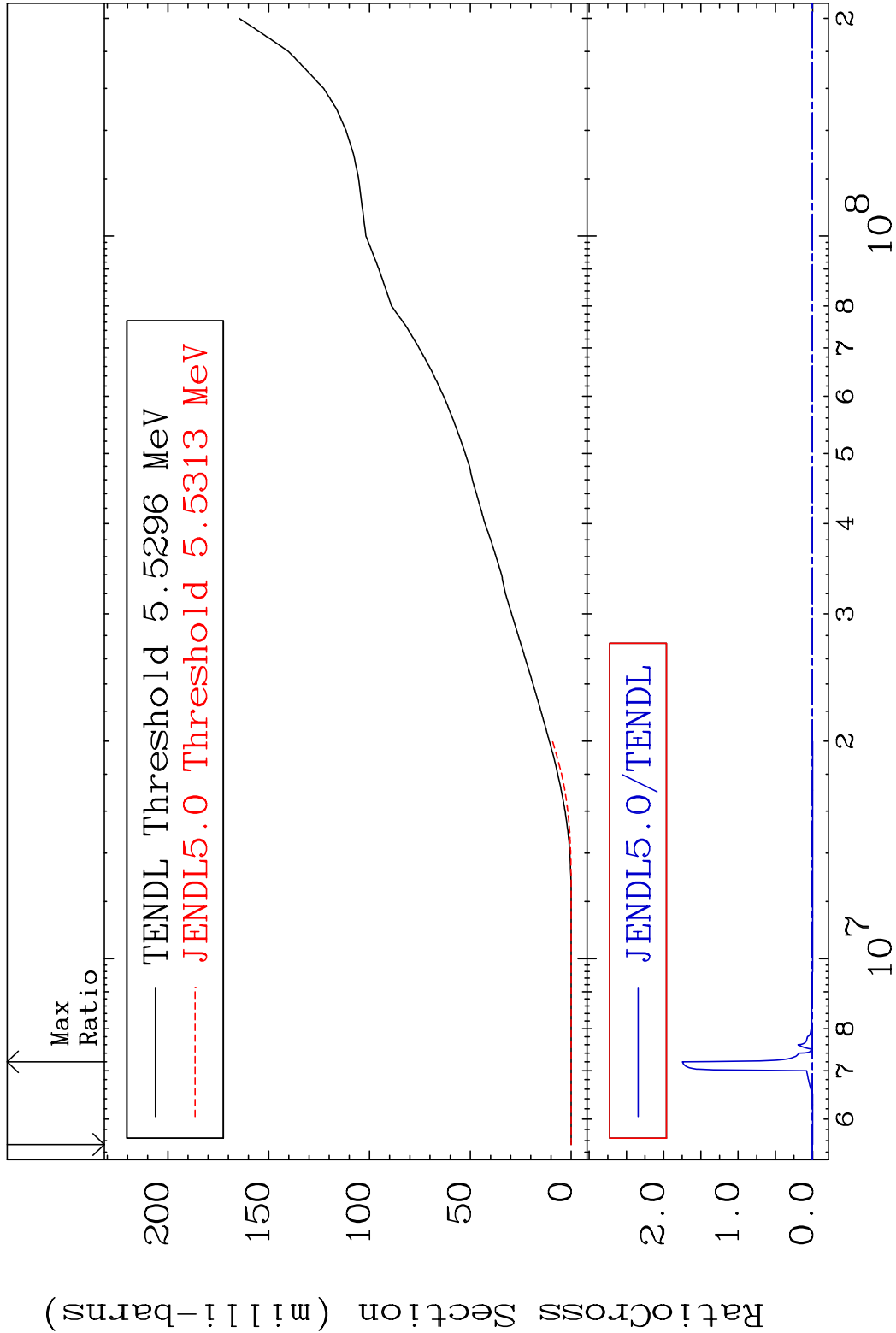


MAT 5831 Dpa disappearance (mt102 -120) 58-Ce-138
Cross Section -100.0 To 9999. %

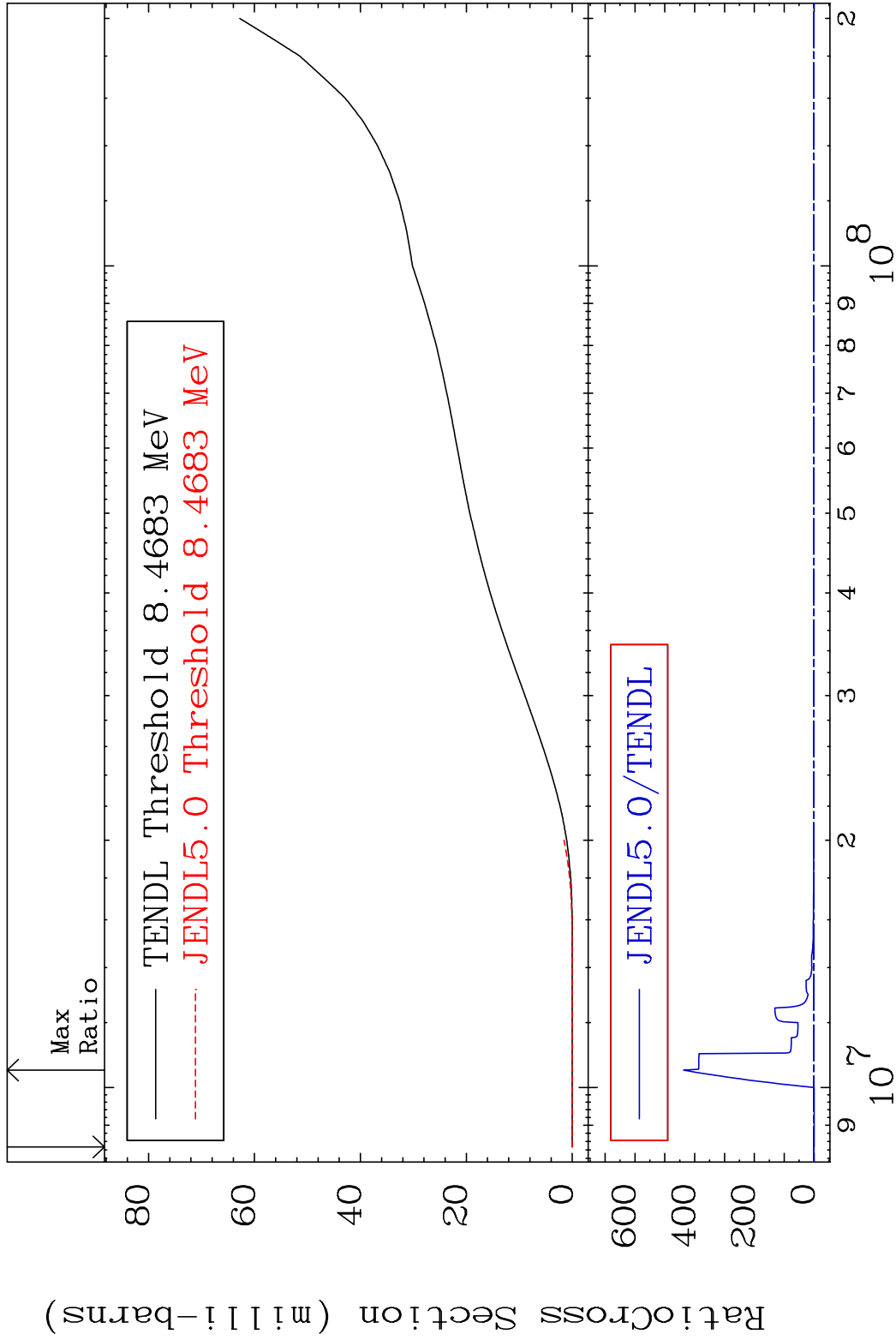


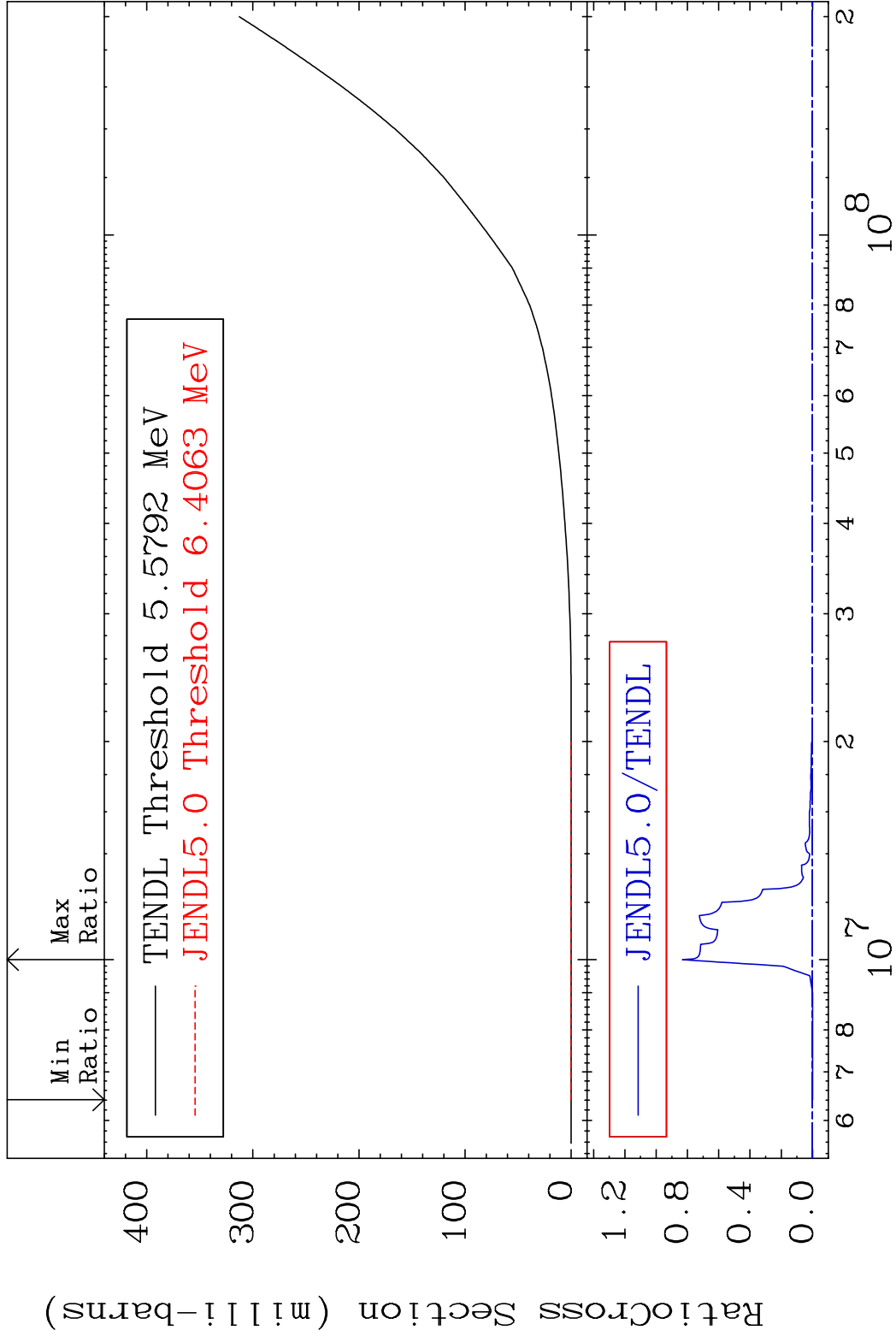
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

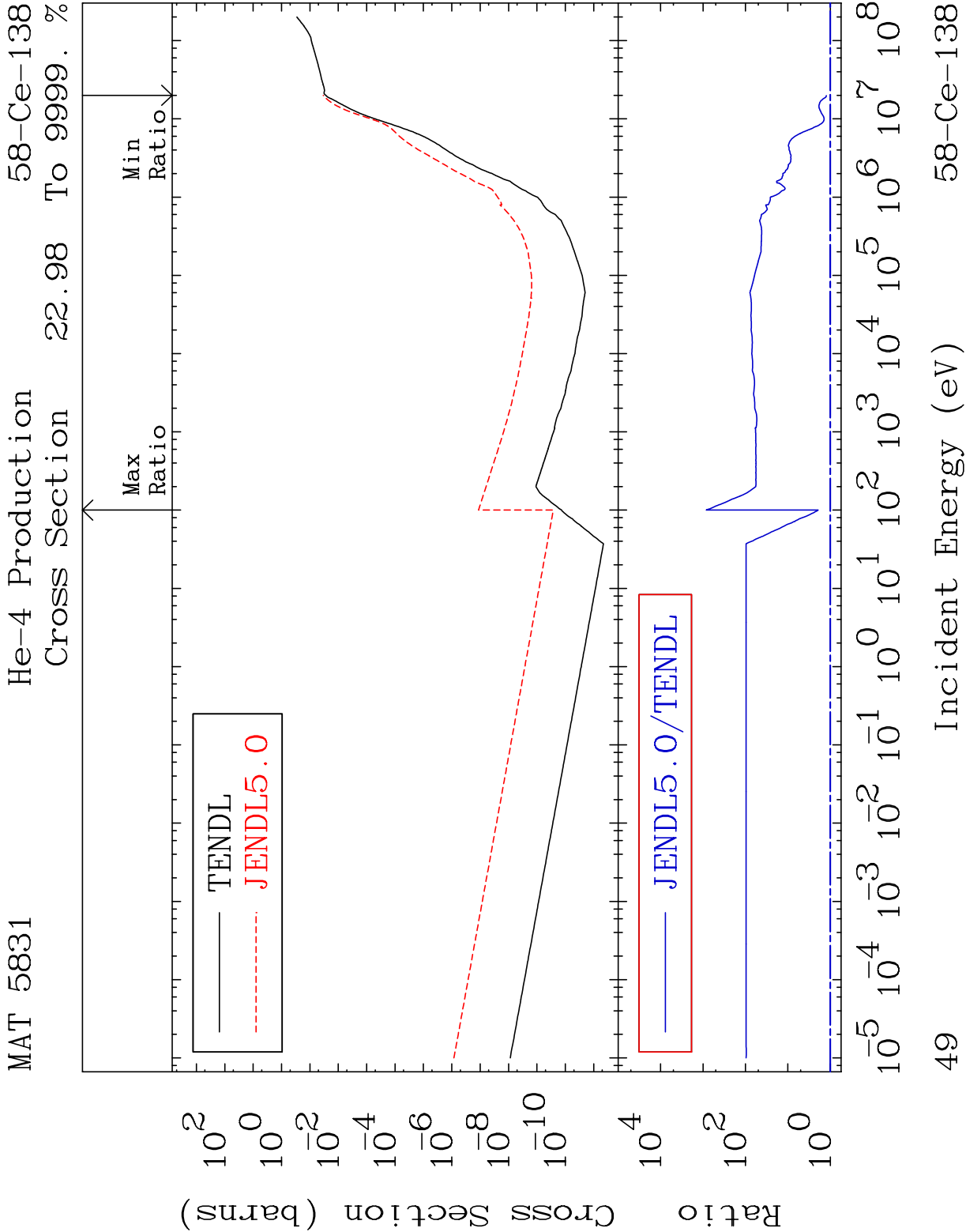
45 Incident Energy (eV) 58-Ce-138



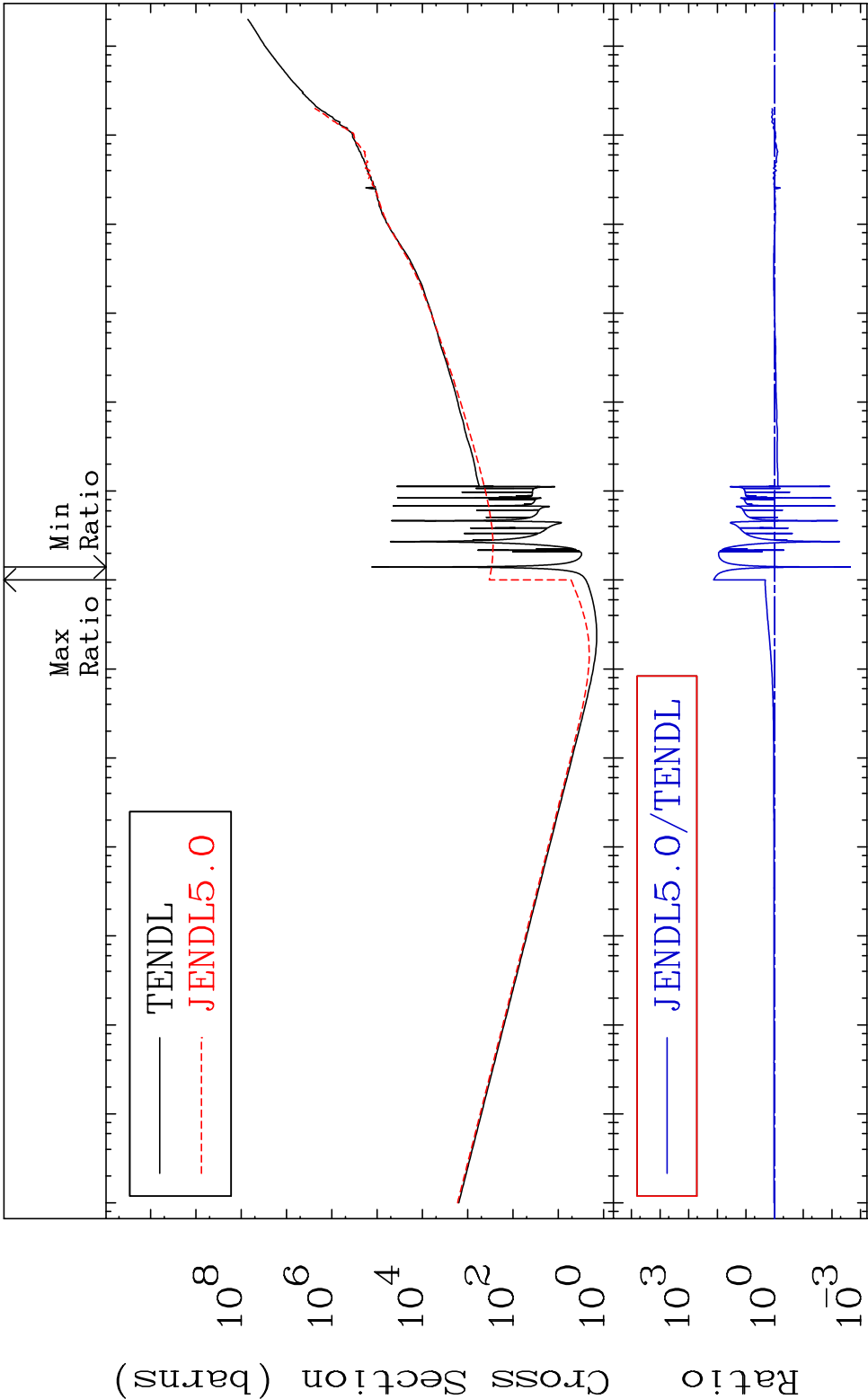
MAT 5831 Tritium Production 58-Ce-138
Cross Section -100.0 To 9999. %





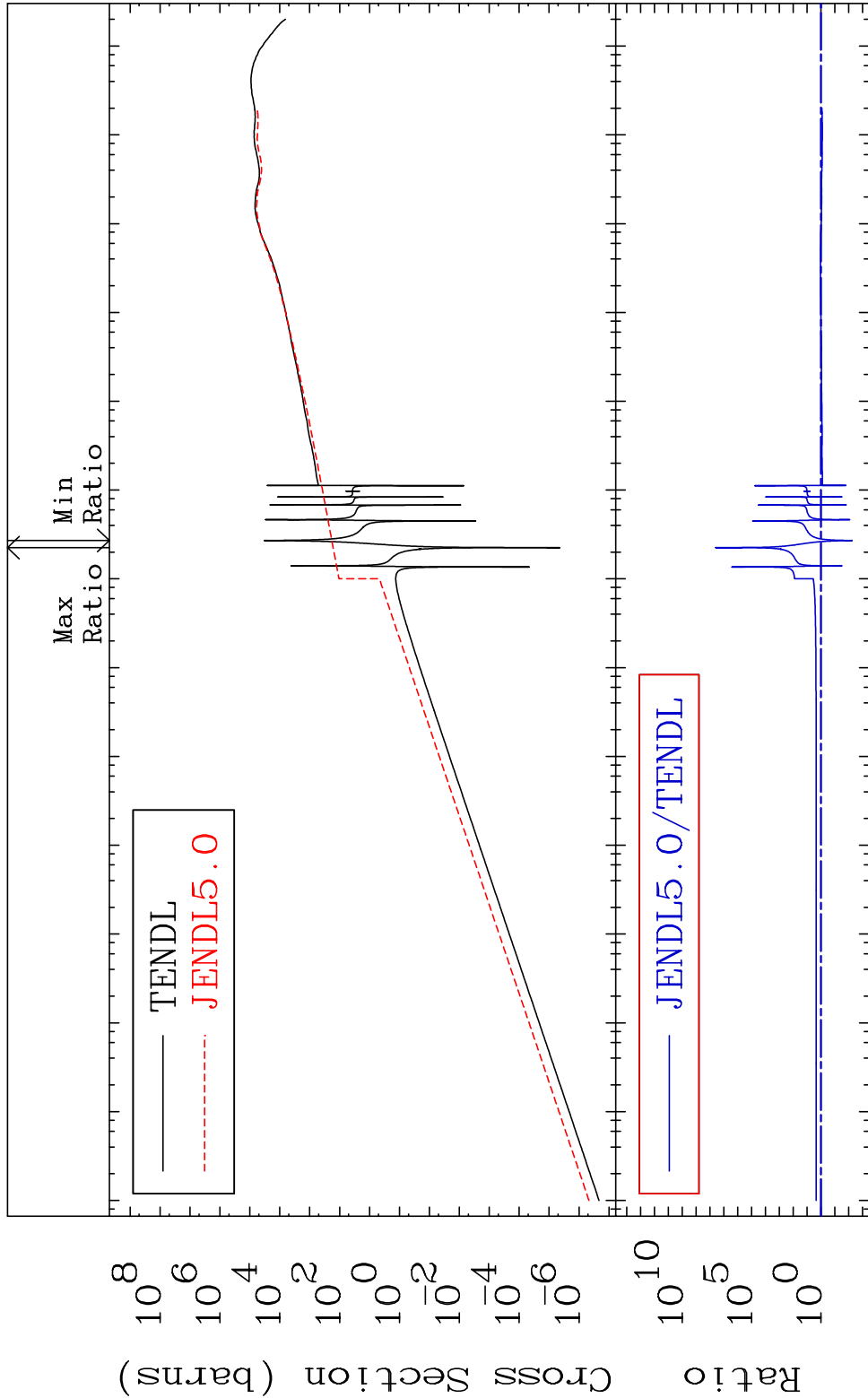


MAT 5831 Kerma total (eV-barns) 58-Ce-138
Cross Section -99.77 To 9999. %



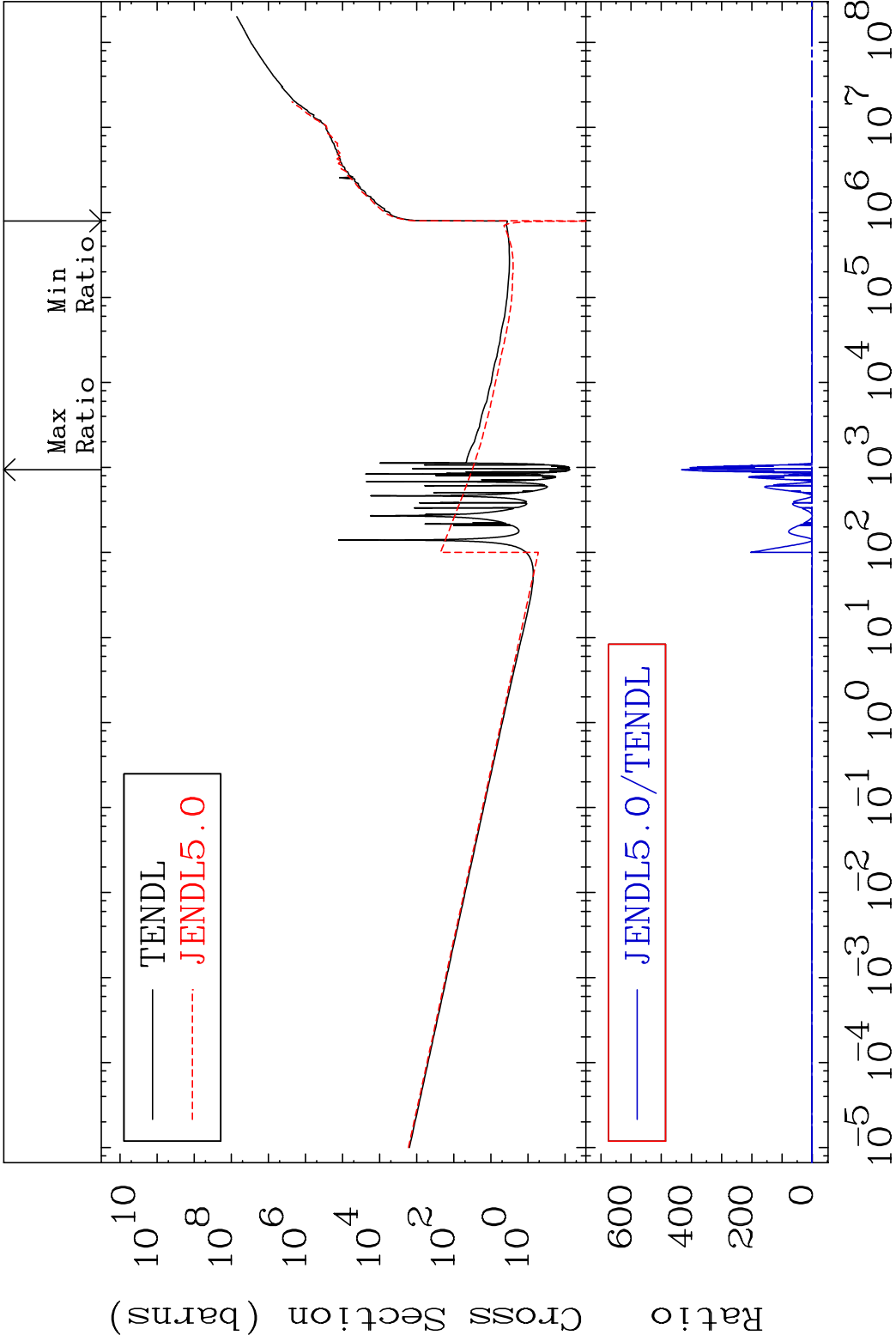
50 Incident Energy (eV) 58-Ce-138

MAT 5831 Kerma elastic 58-Ce-138
Cross Section -99.45 To 9999. %

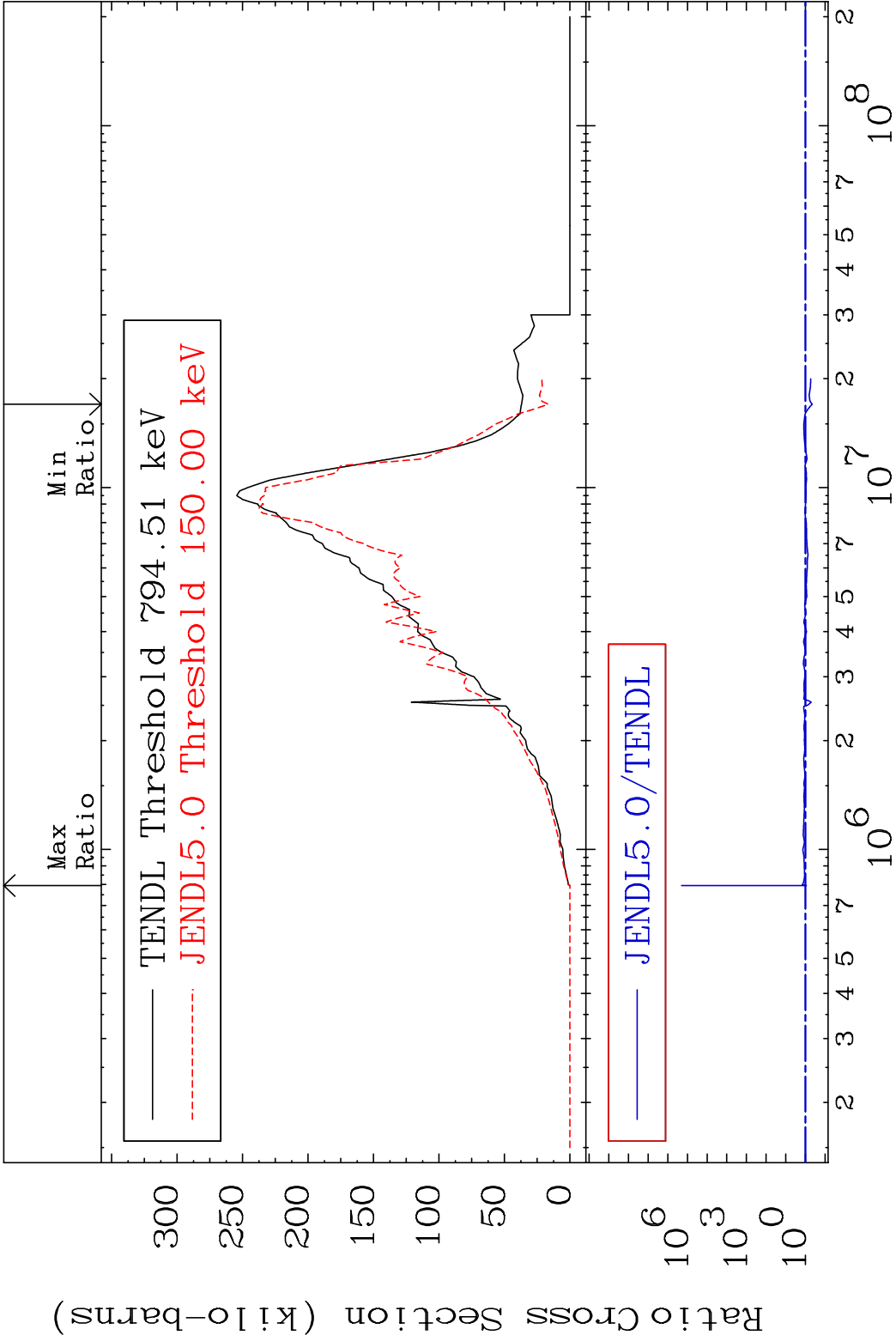


51 Incident Energy (eV) 58-Ce-138

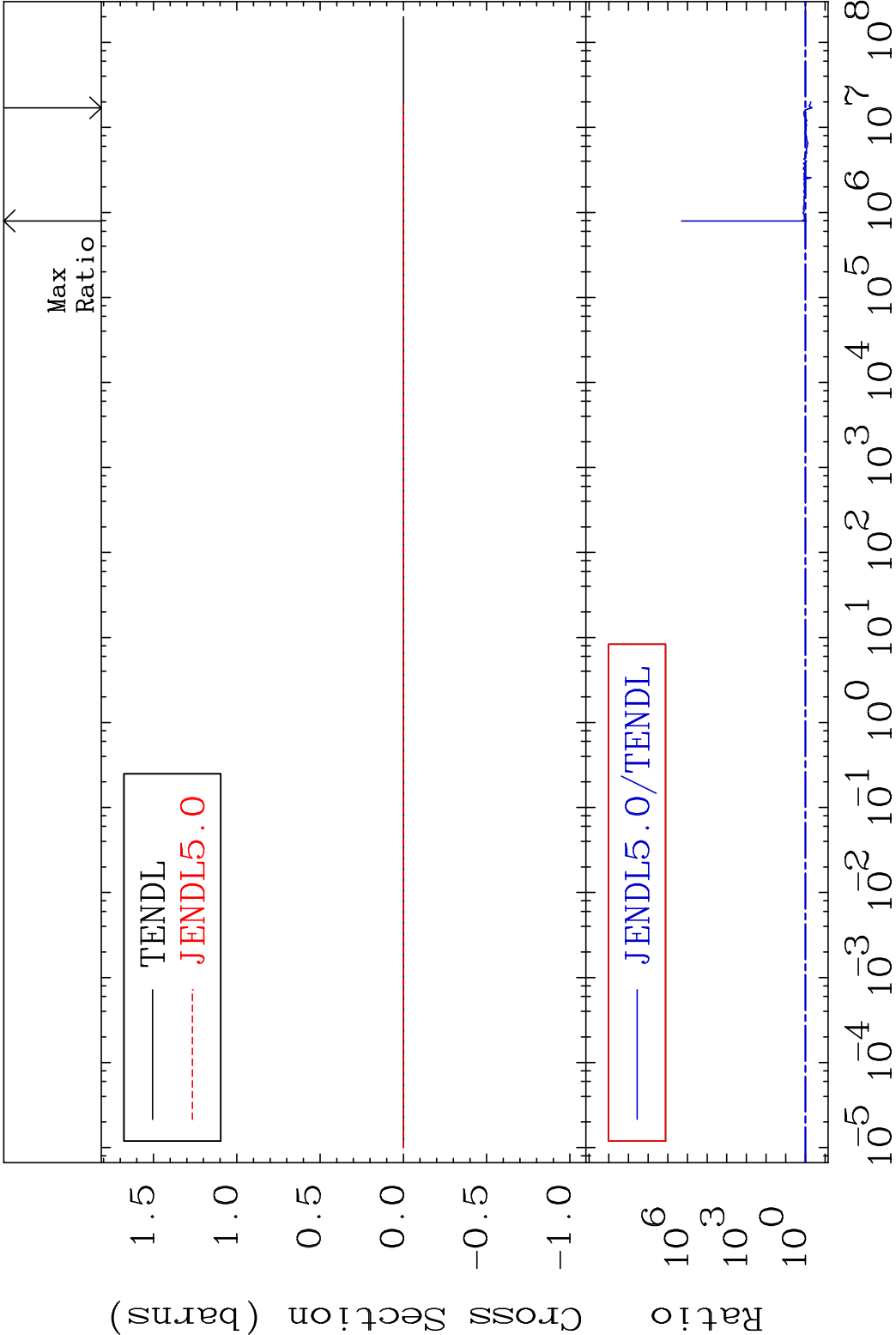
MAT 5831 Kerma non-elastic (all but mt2) 58-Ce-138
Cross Section -108.0 To 9999. %



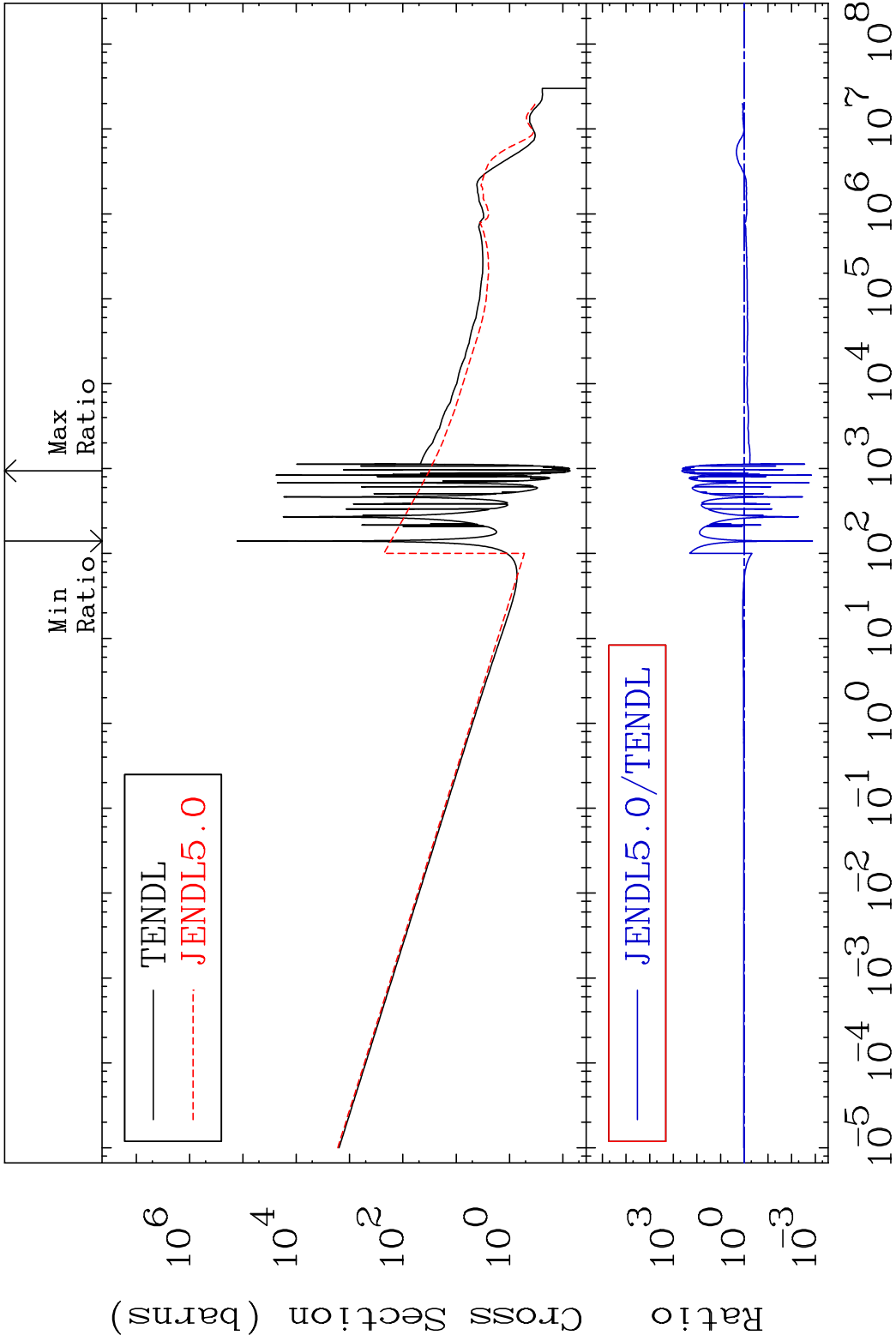
52 Incident Energy (eV) 58-Ce-138



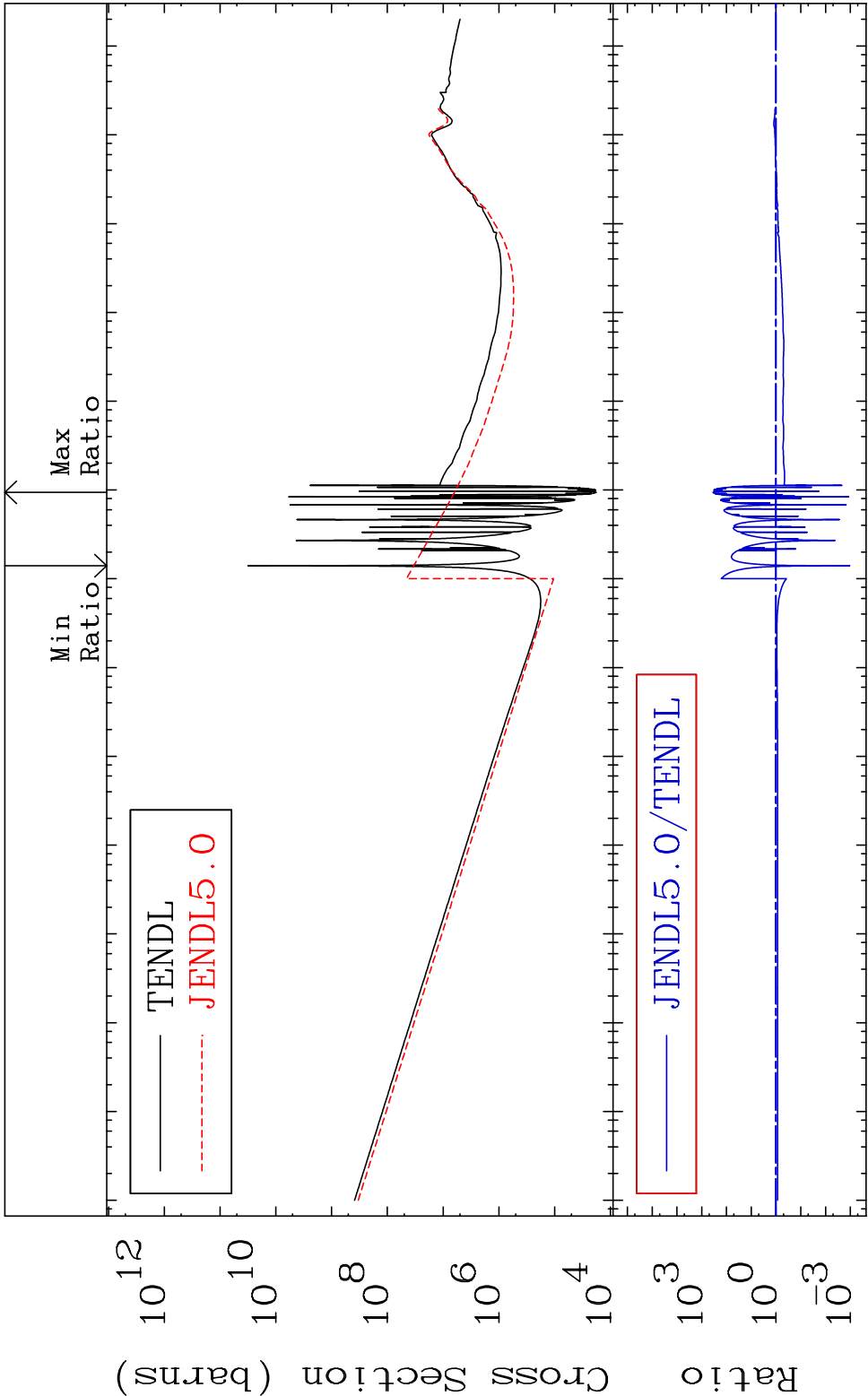
MAT 5831 Kerma fission (mt18 or mt19-20-21-38)58-Ce-138
Cross Section -55.13 To 9999. %



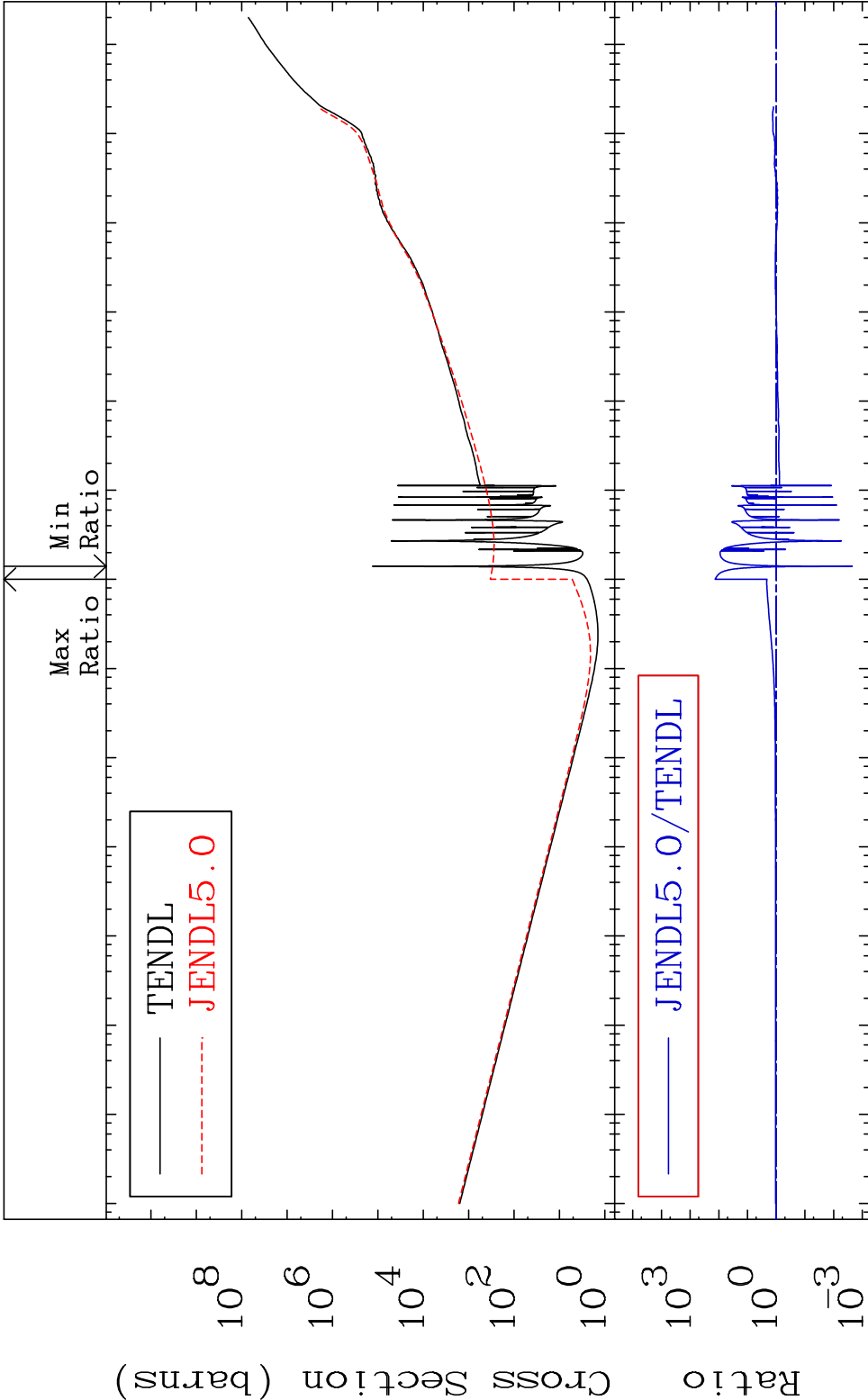
MAT 5831 Kerma capture (mt102) 58-Ce-138
Cross Section -99.87 To 9999. %



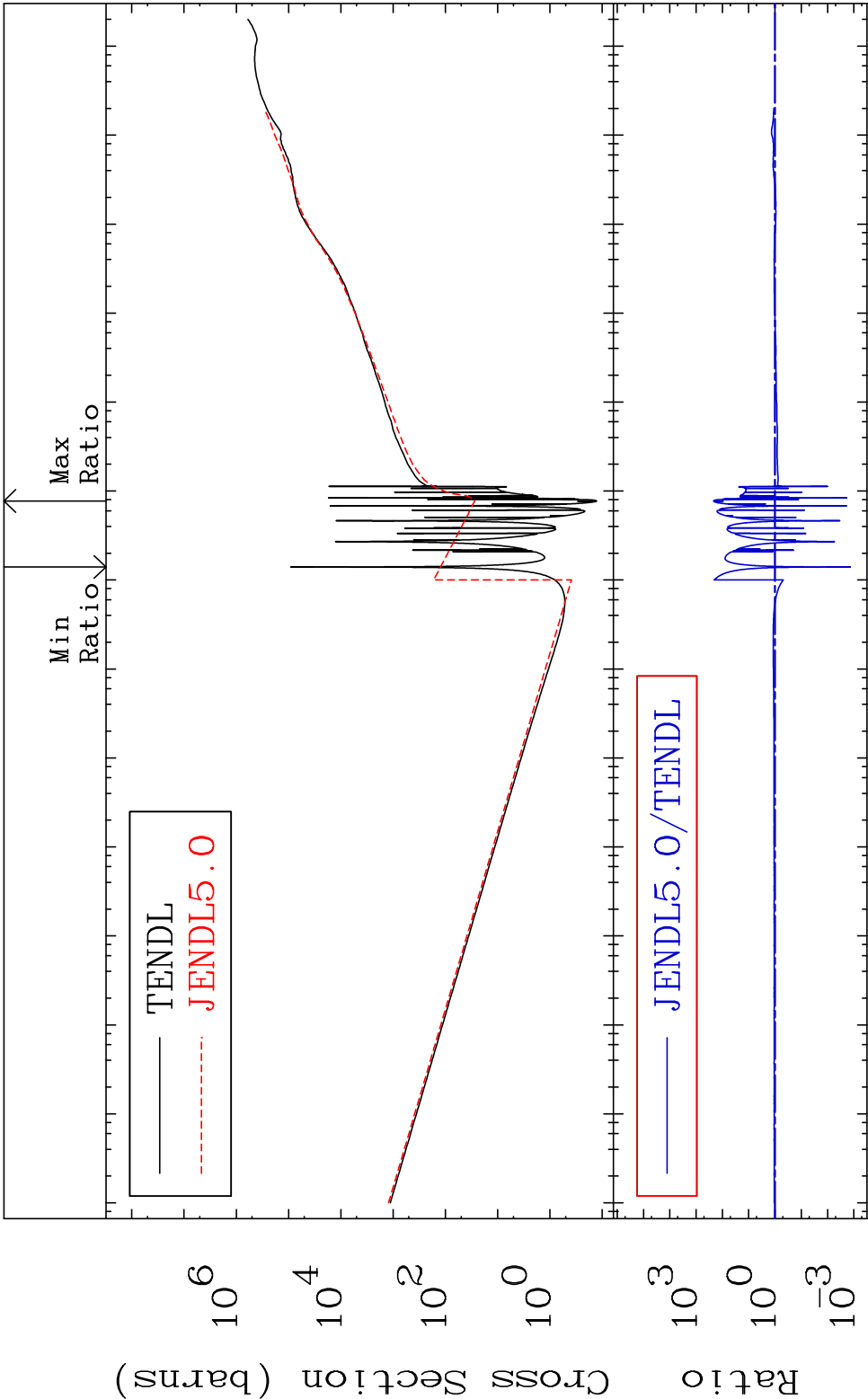
MAT 5831 Total photon (eV-barns) 58-Ce-138
Cross Section -99.89 To 9999. %



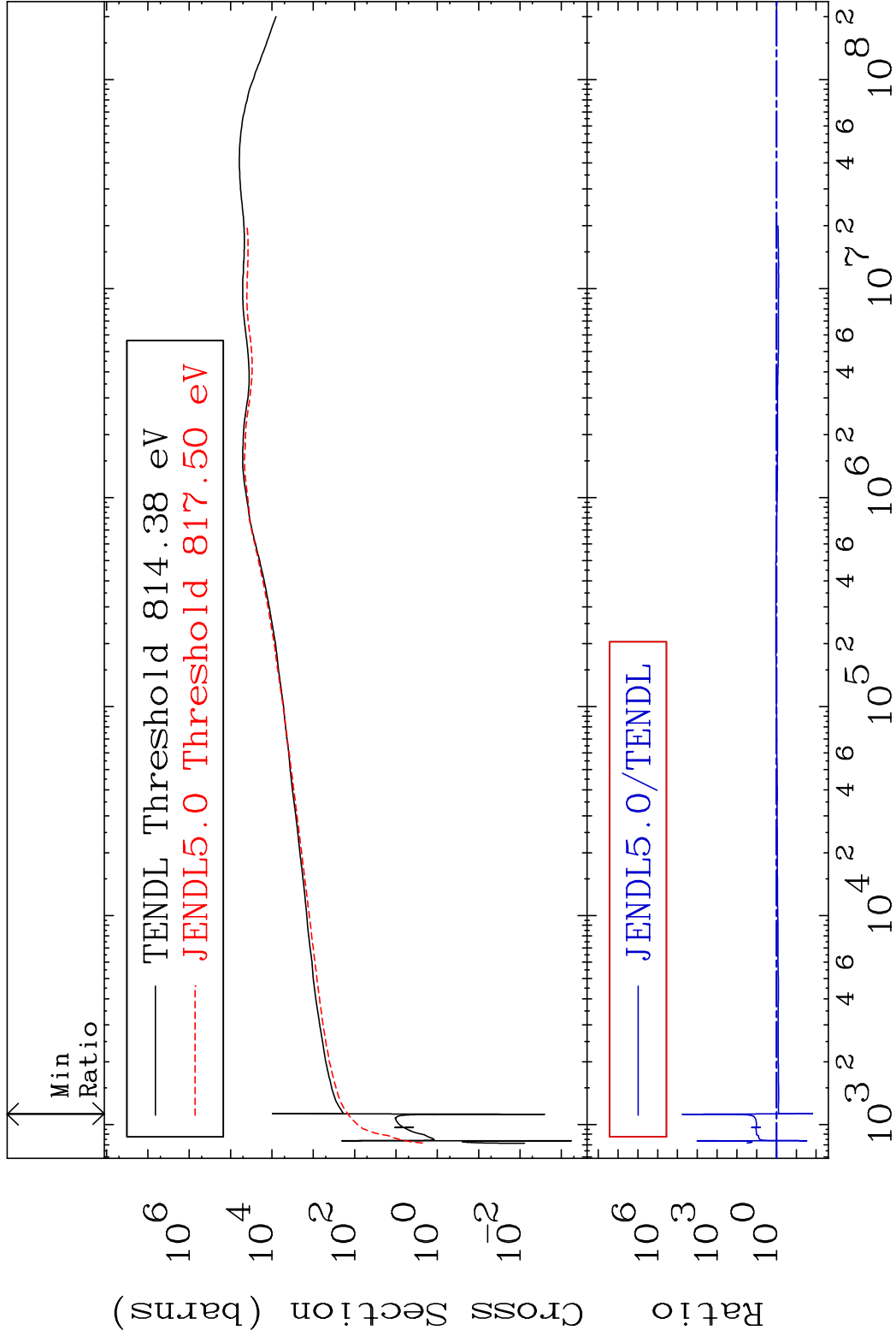
MAT 5831 Total kinematic kerma (high limit) 58-Ce-138
Cross Section -99.77 To 9999. %

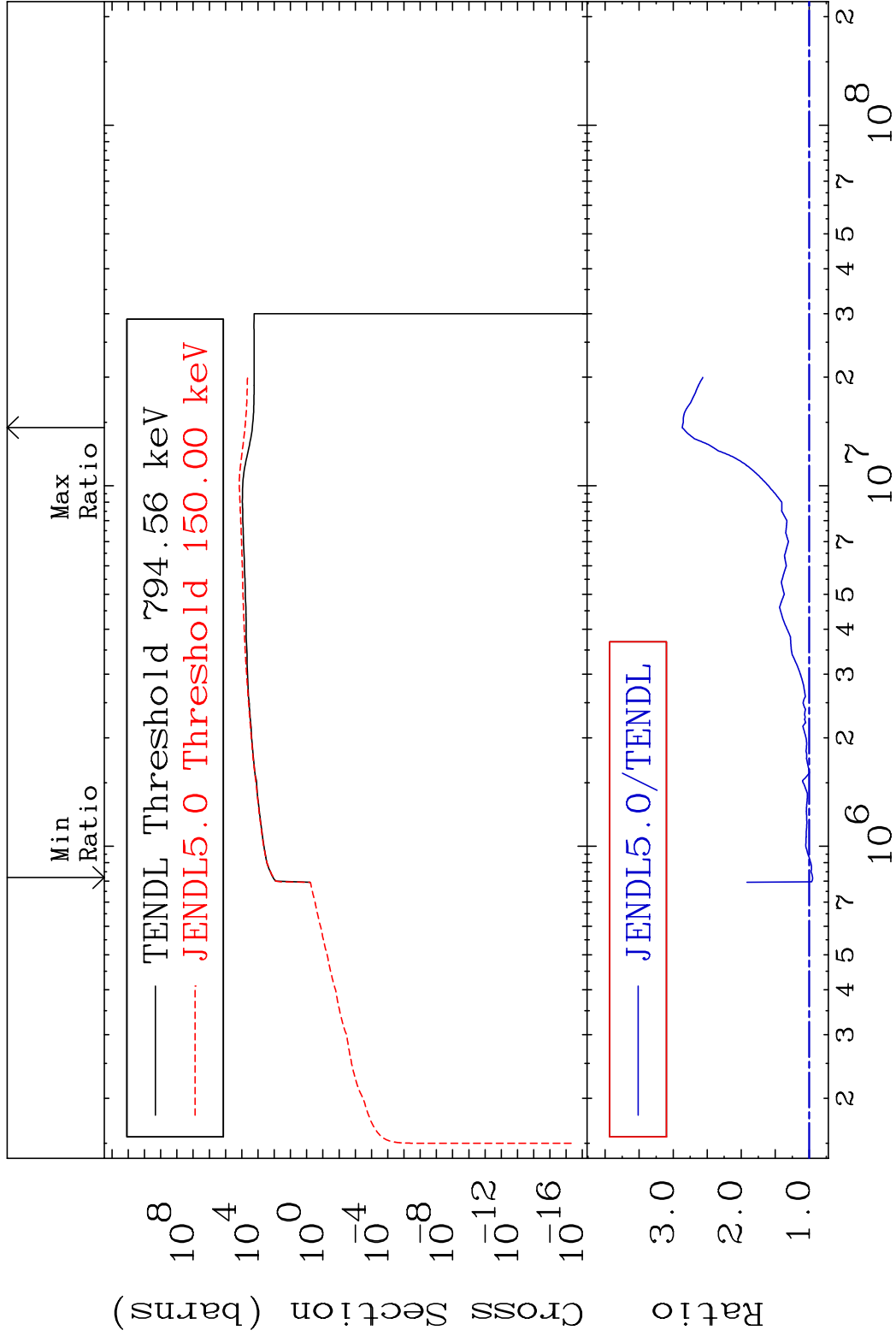


MAT 5831 Dpa total (eV-barns) 58-Ce-138
Cross Section -99.86 To 9999. %

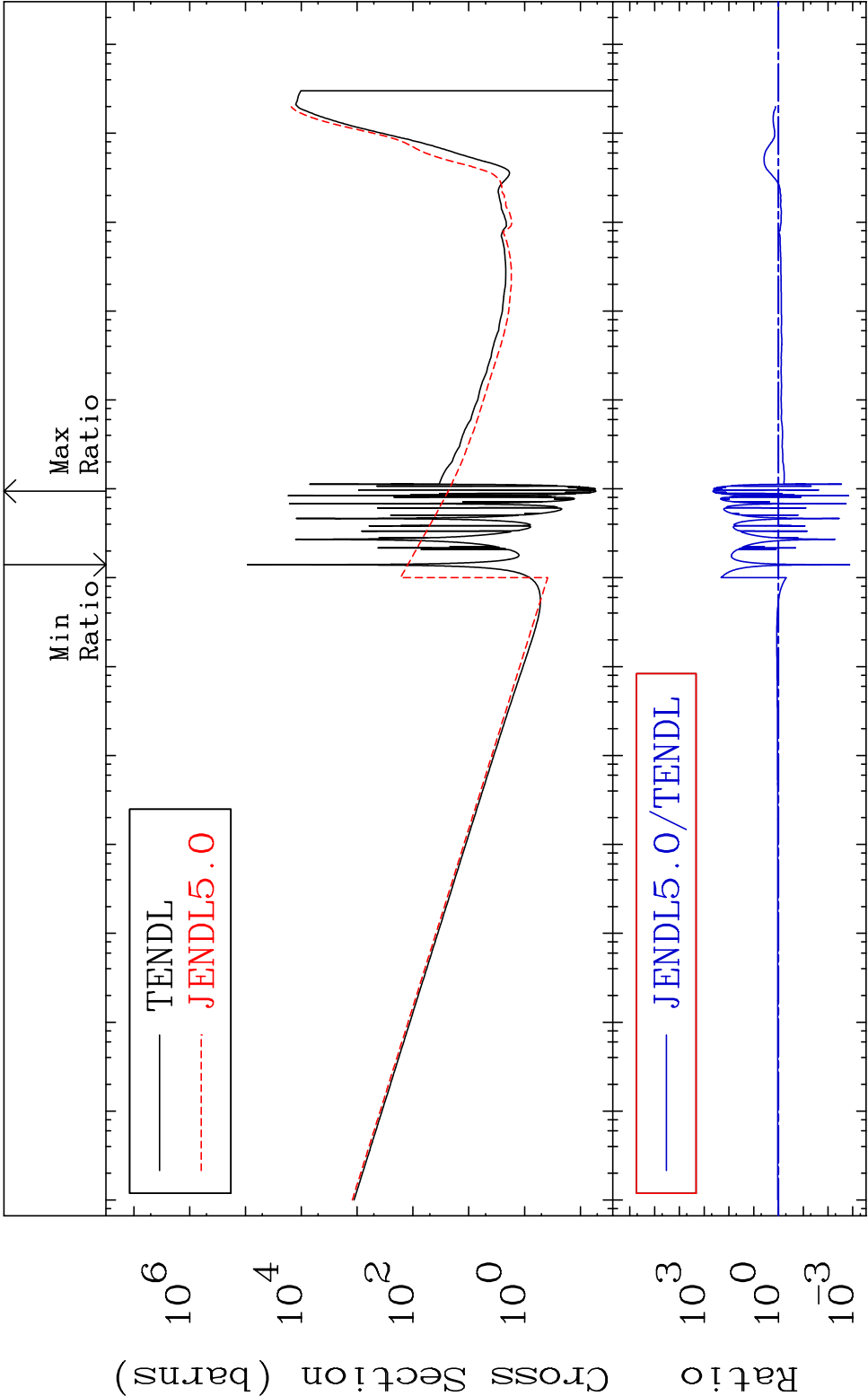


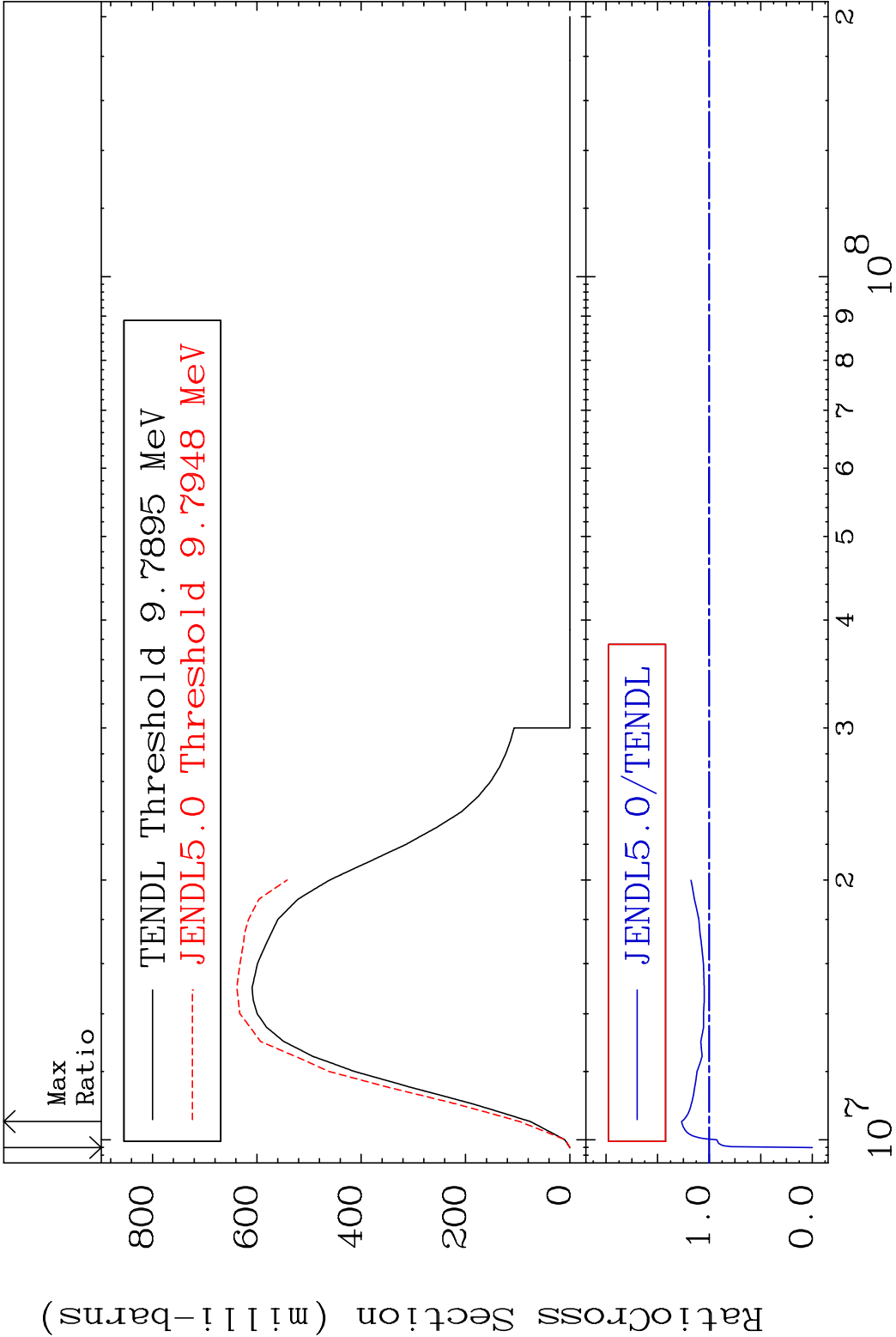
MAT 5831 Dpa elastic (mt2) 58-Ce-138
Cross Section -98.49 To 9999. %

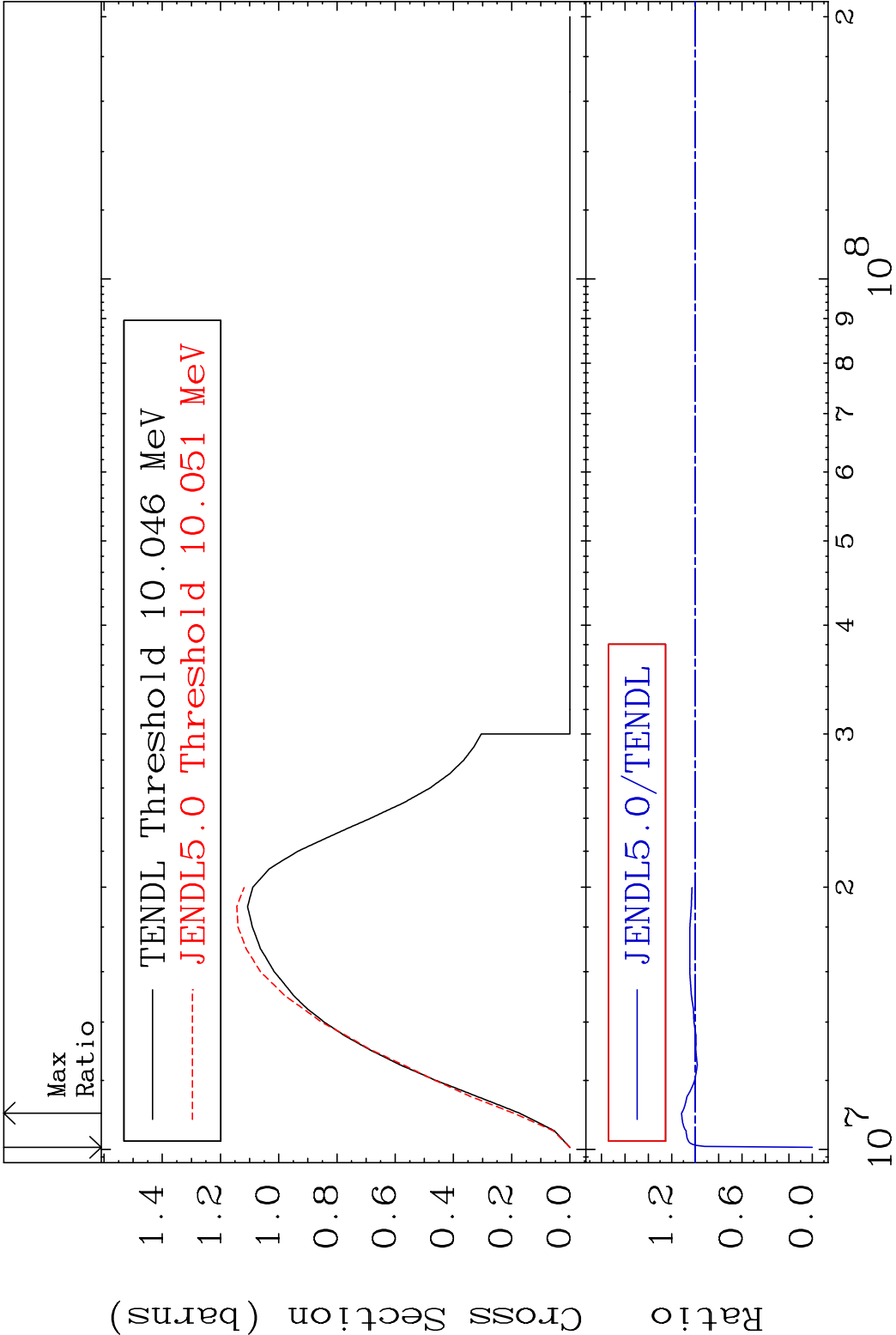


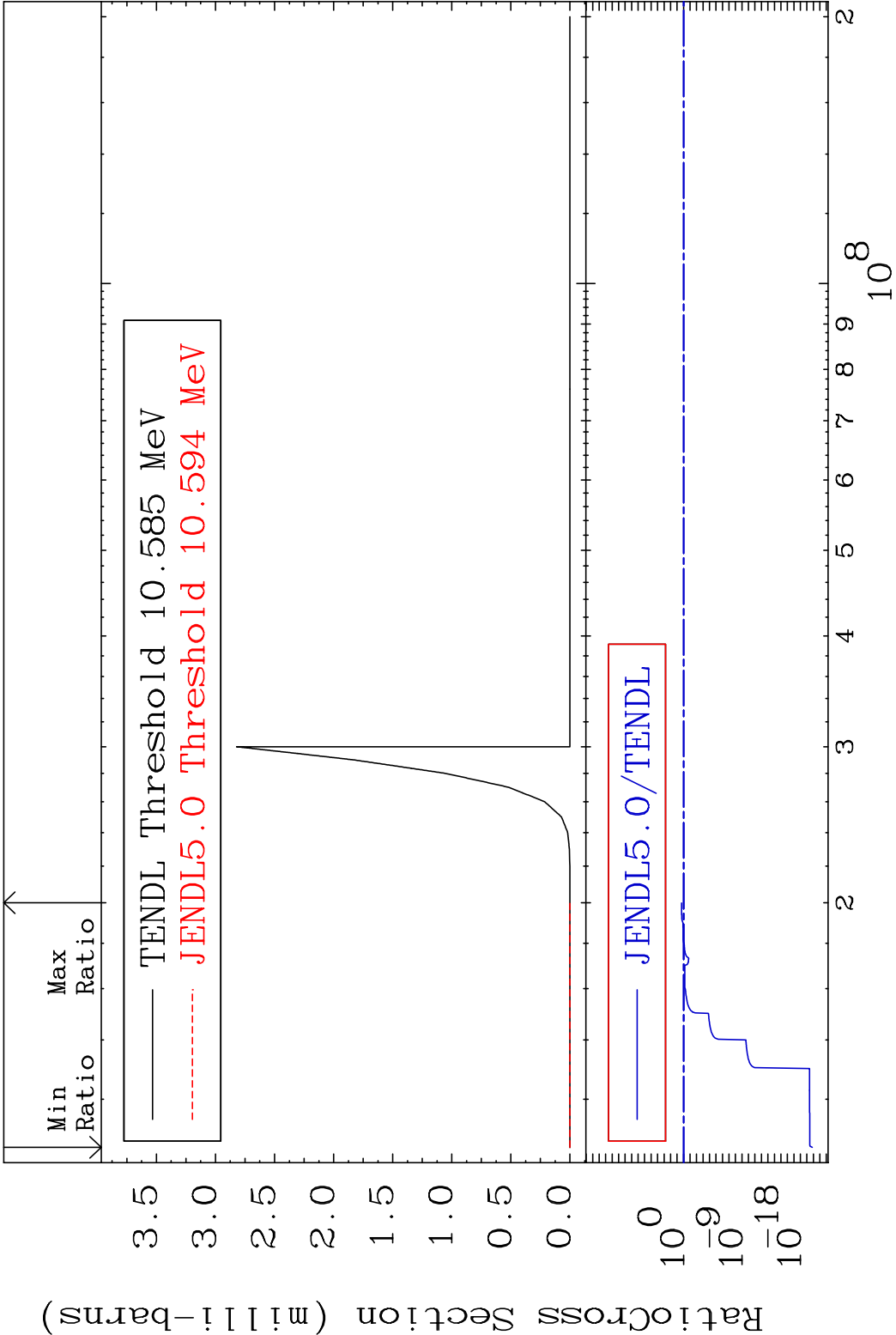


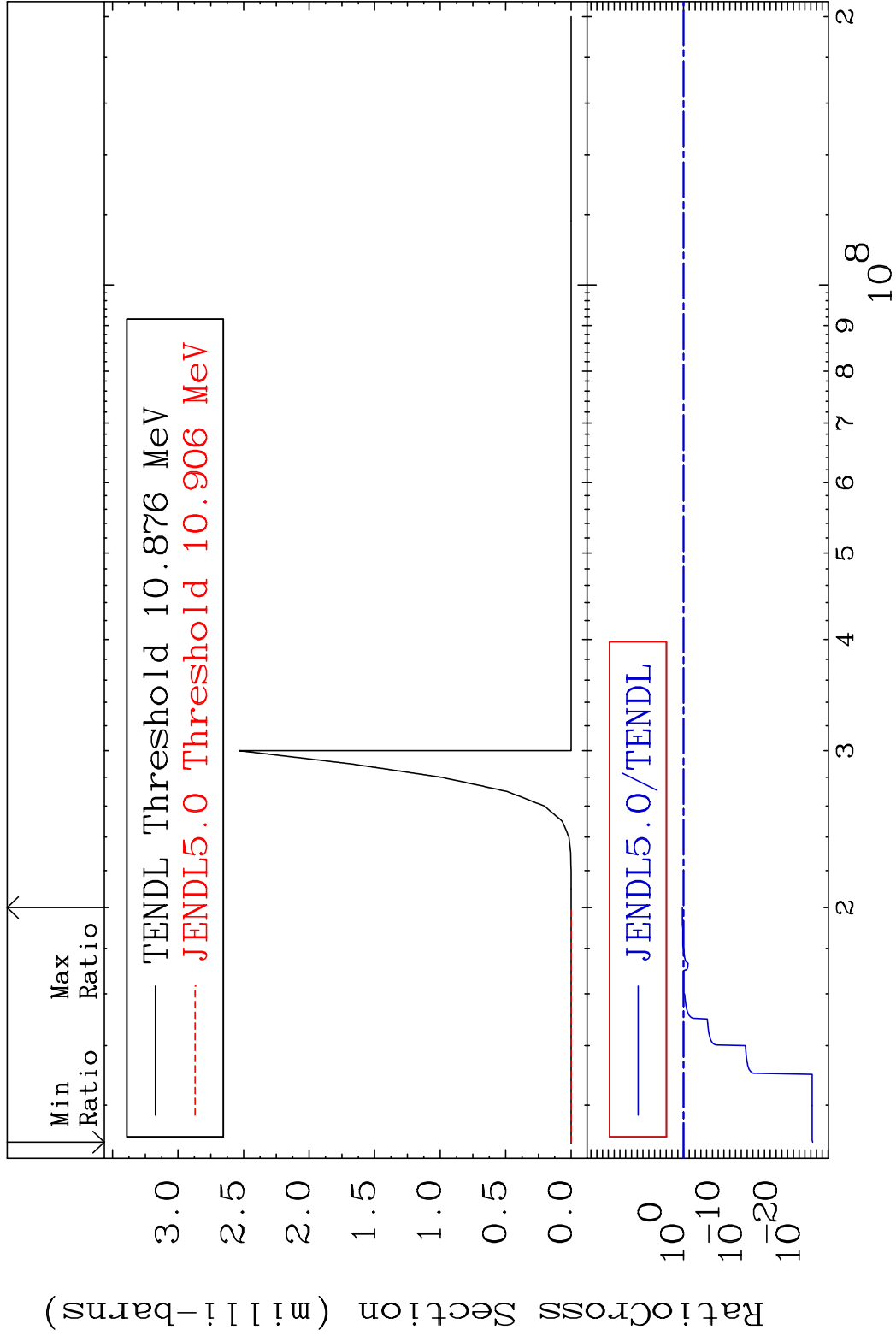
MAT 5831 Dpa disappearance (mt102 -120) 58-Ce-138
Cross Section -99.86 To 9999. %

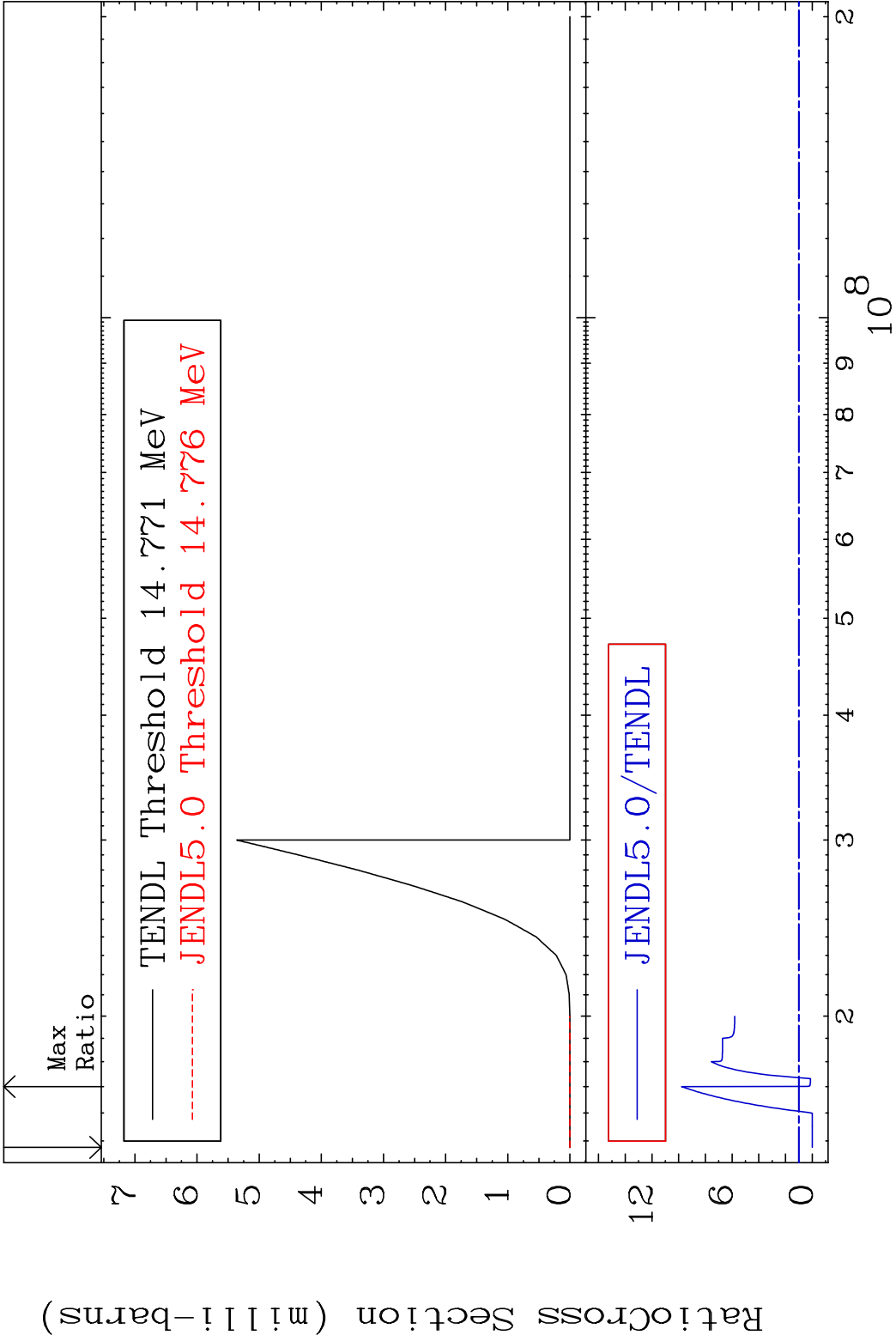


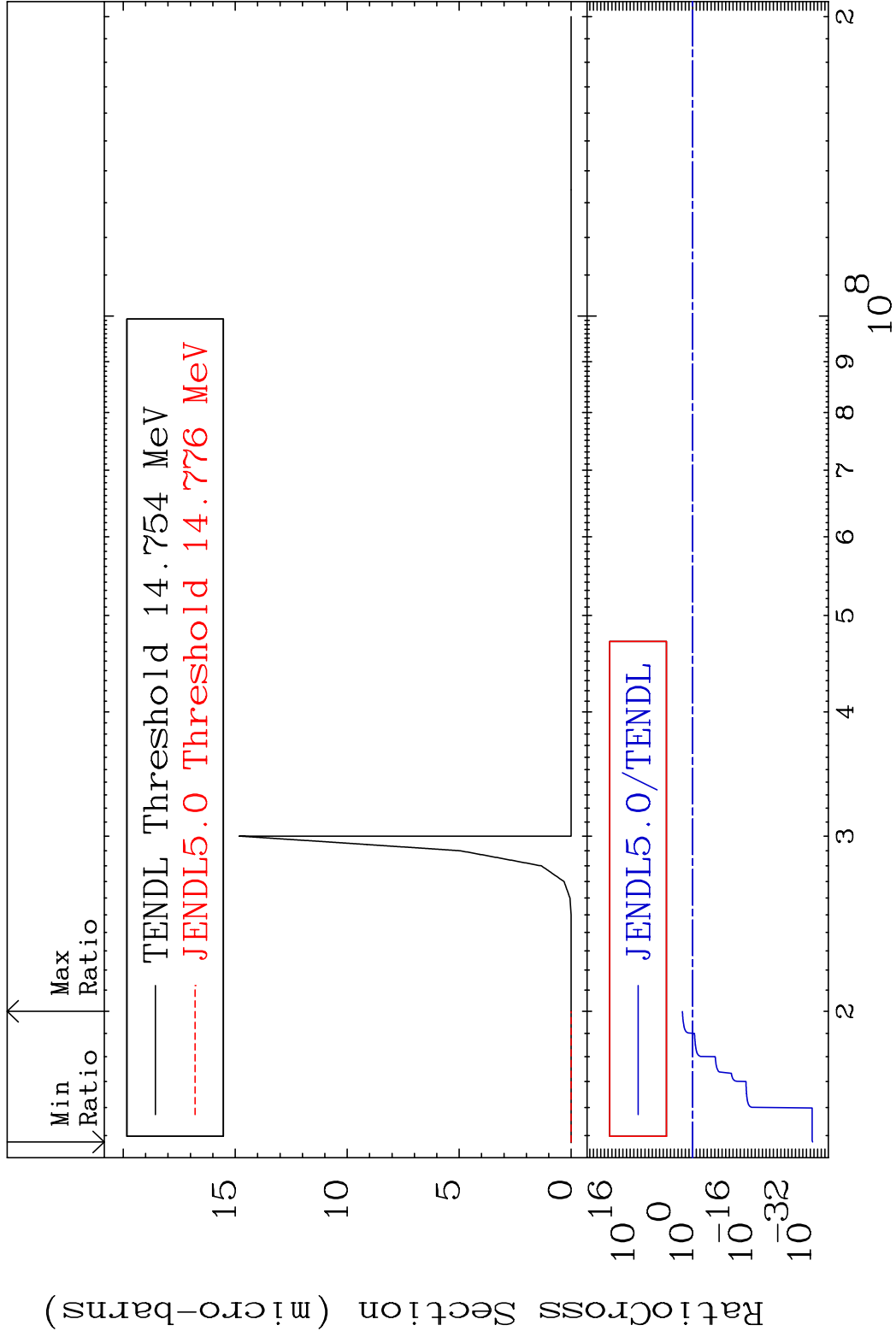


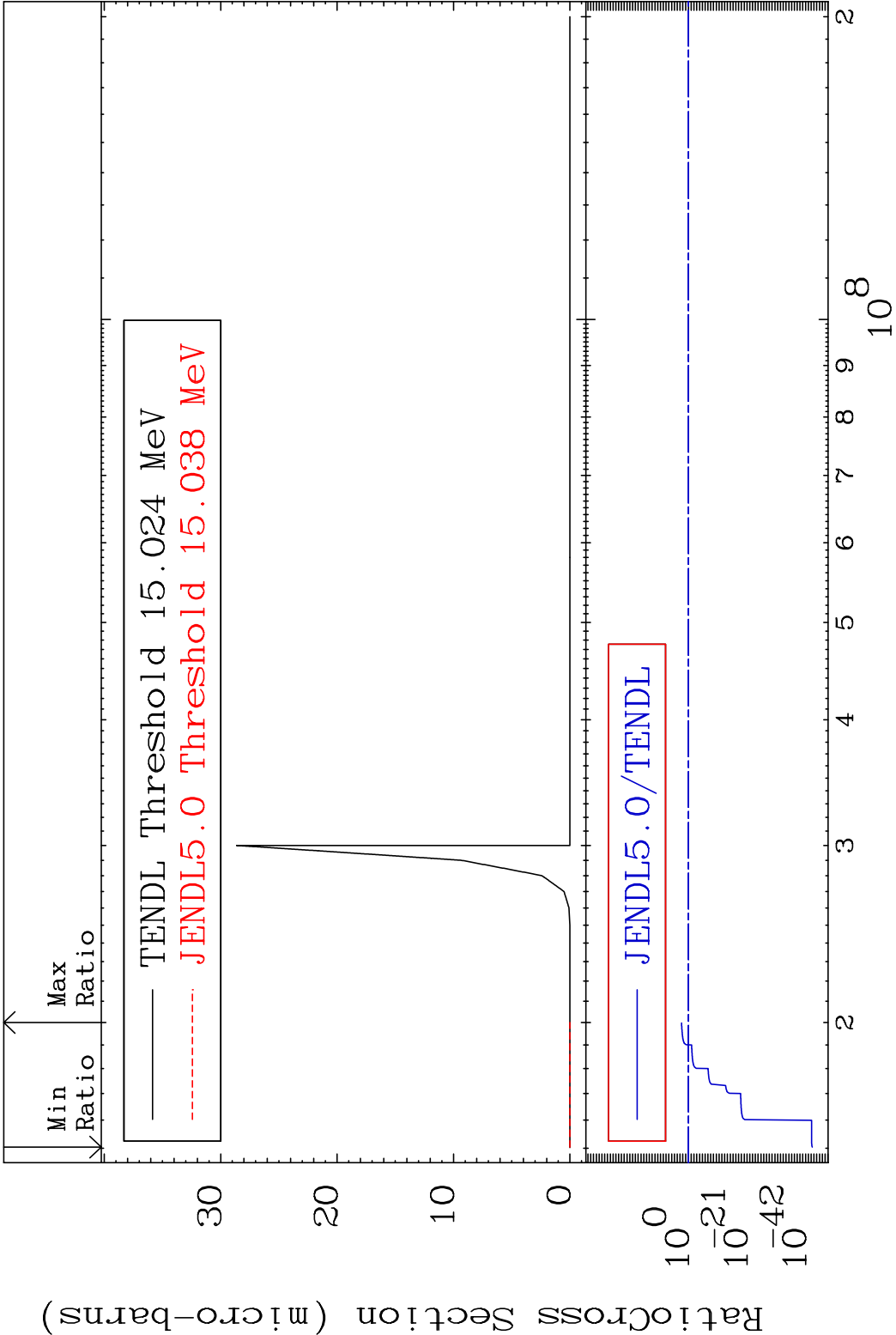


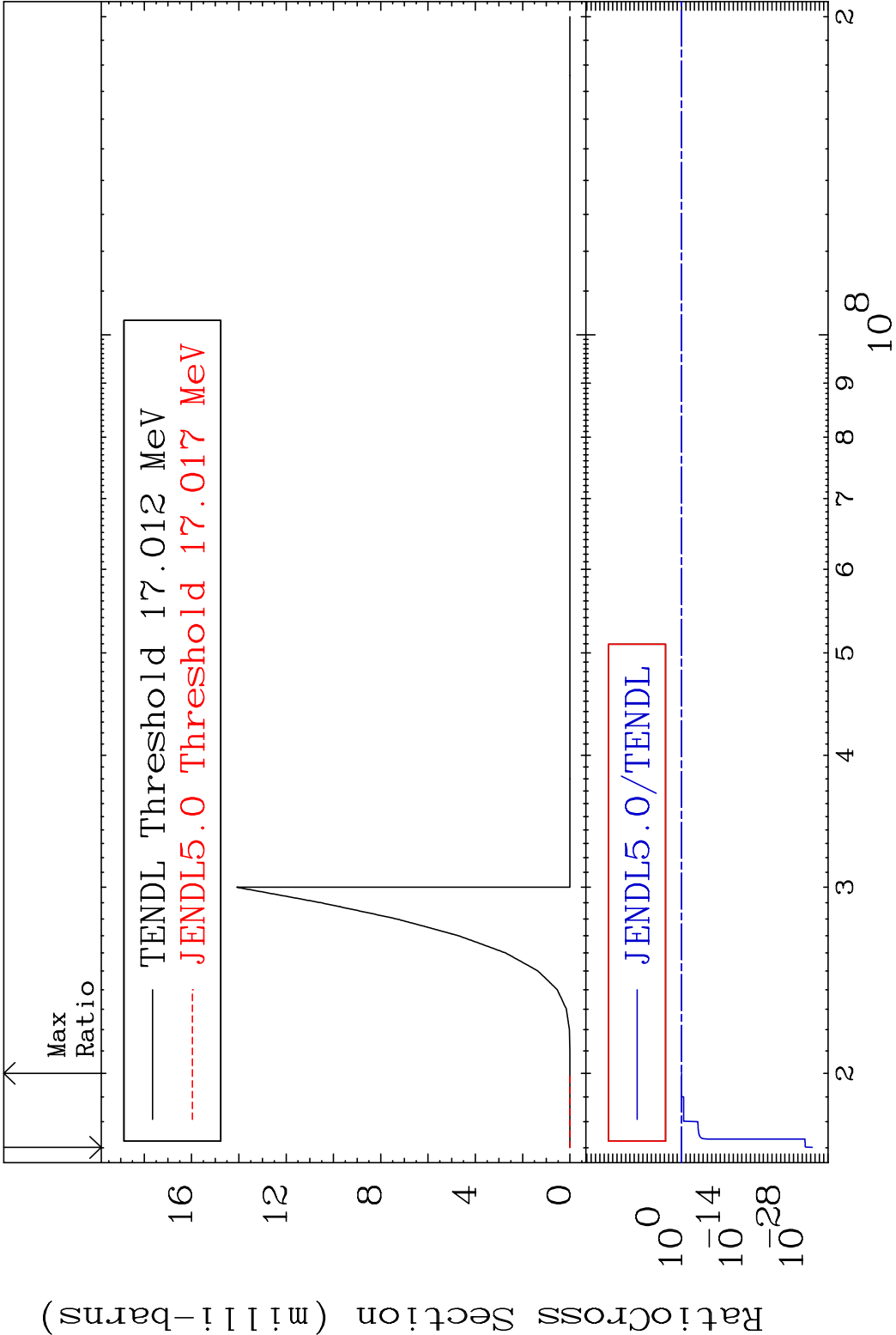


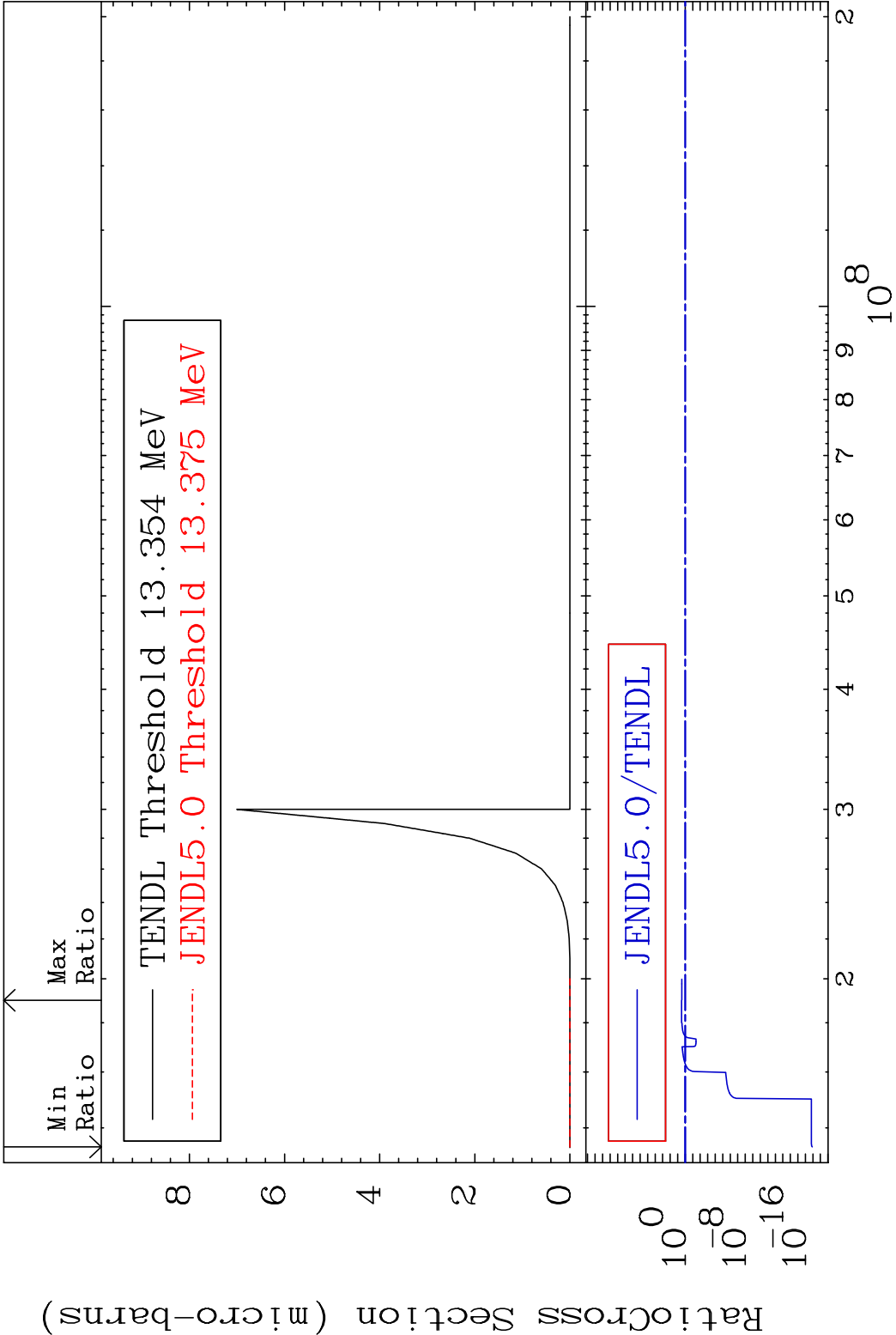


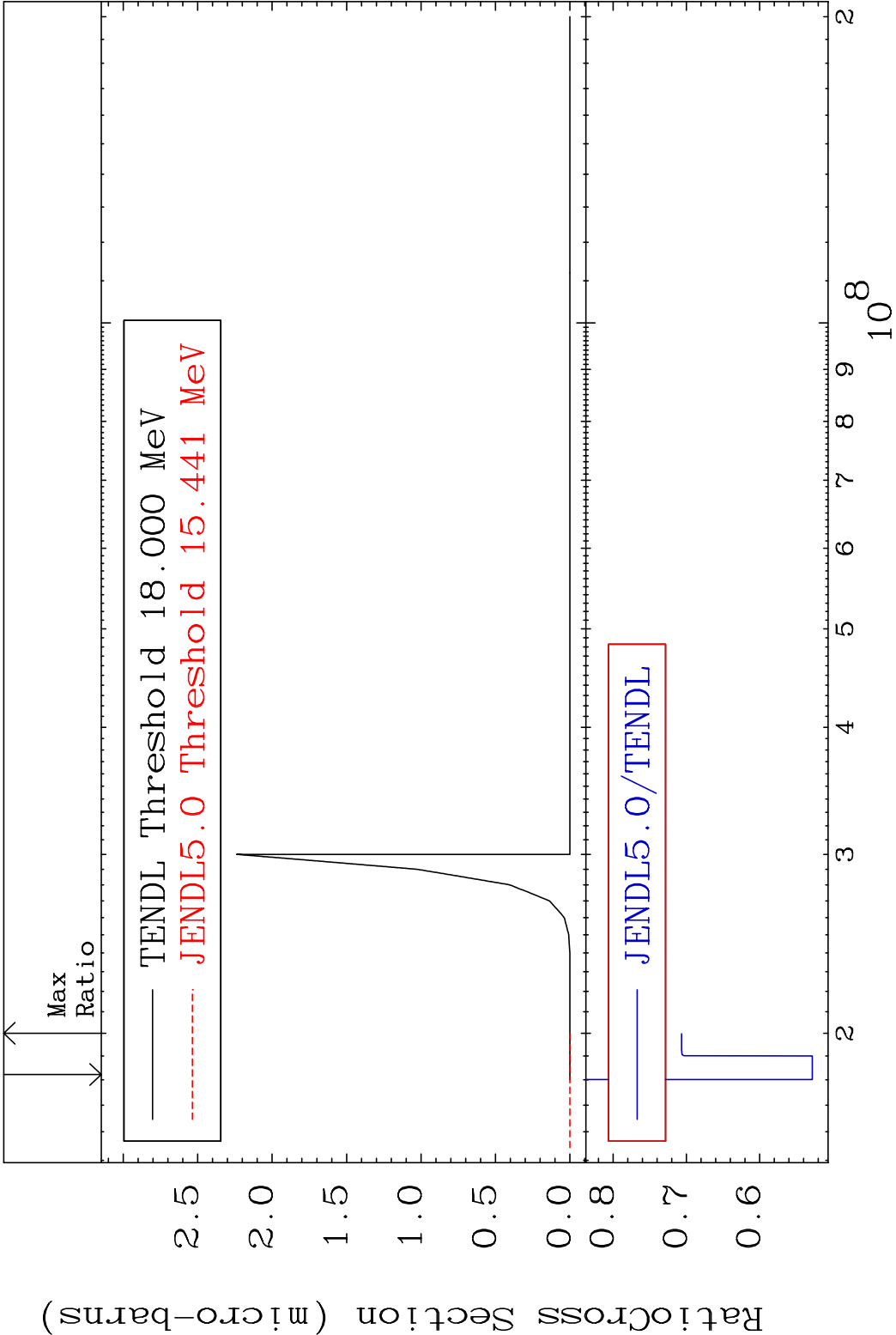


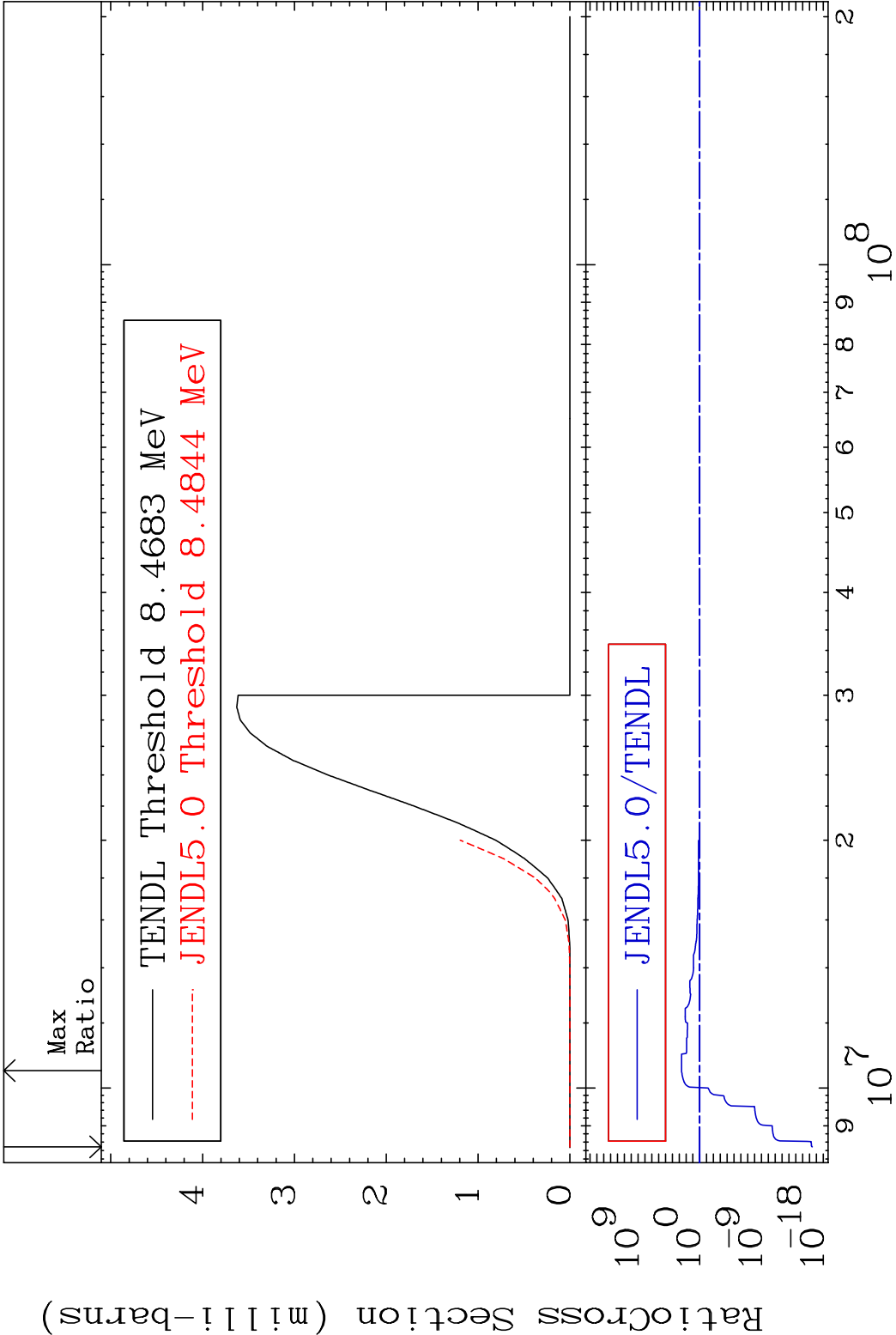


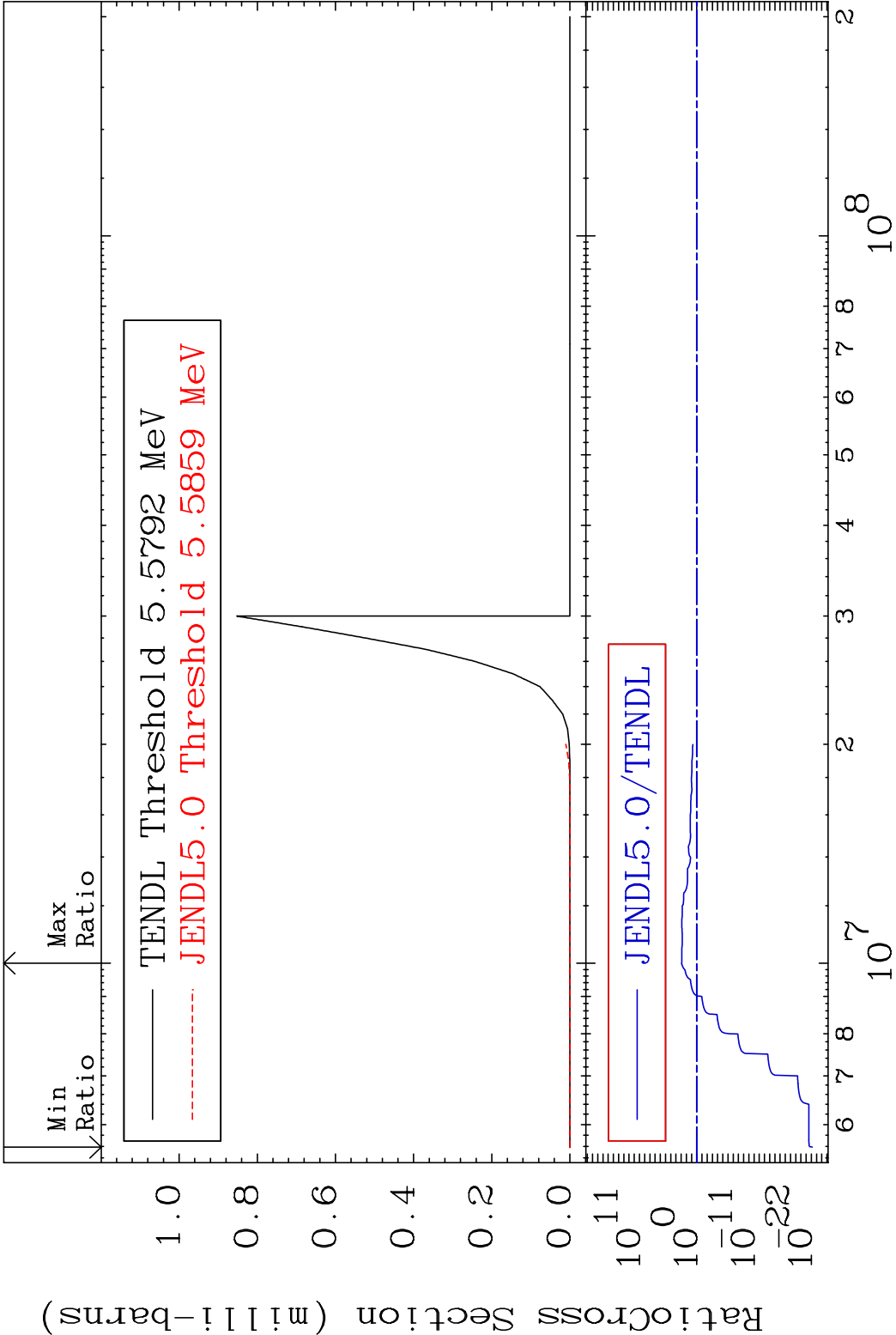


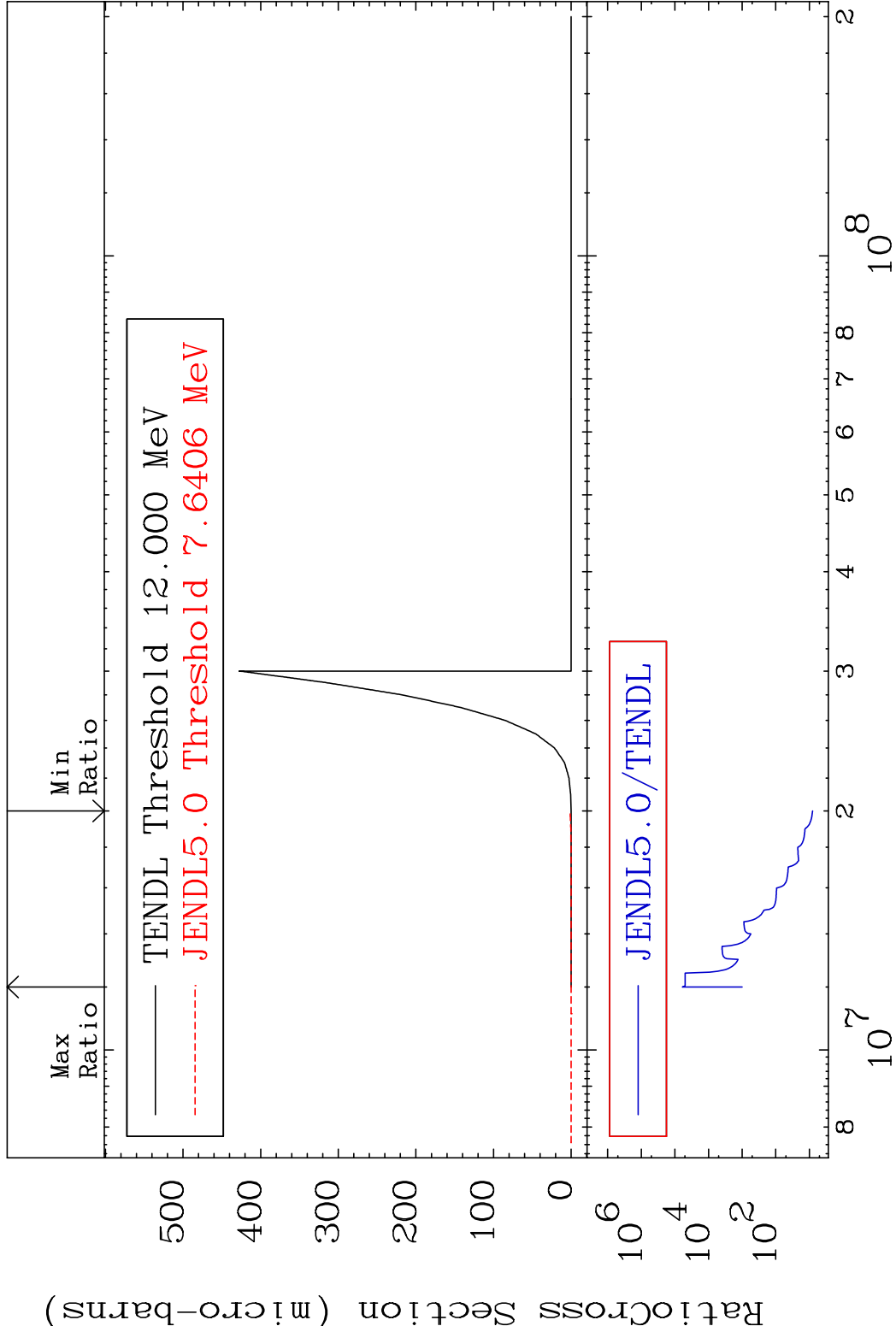


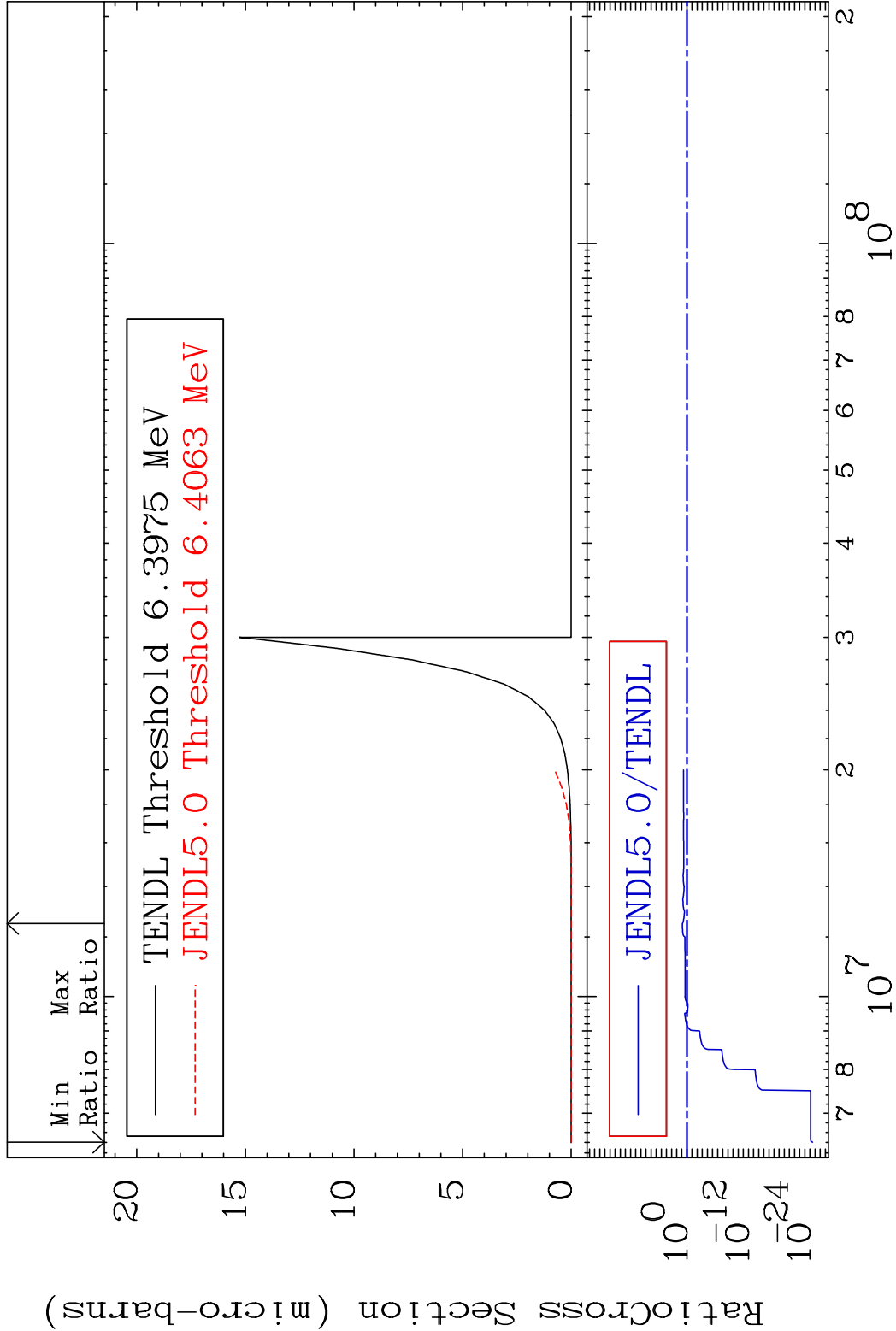


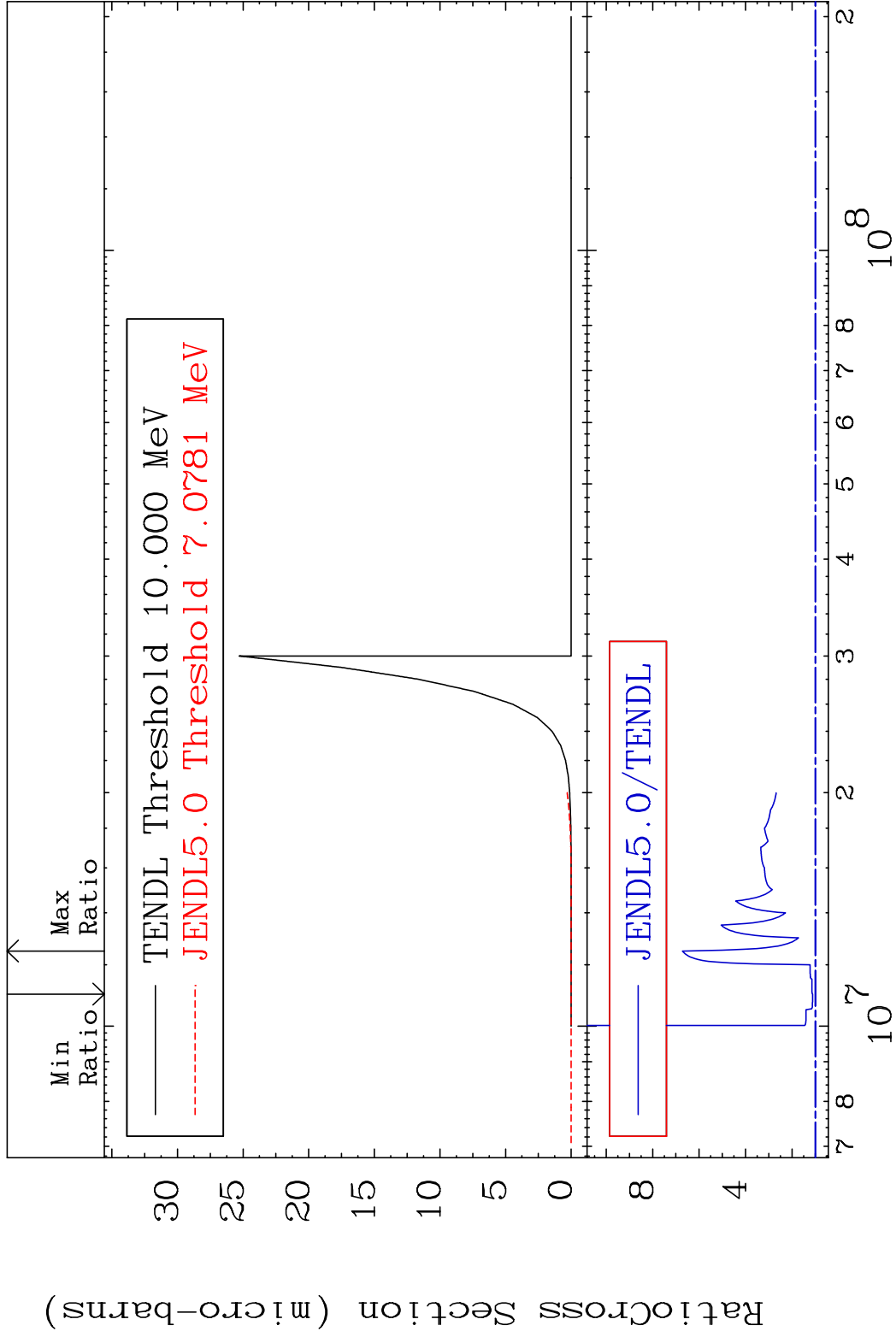




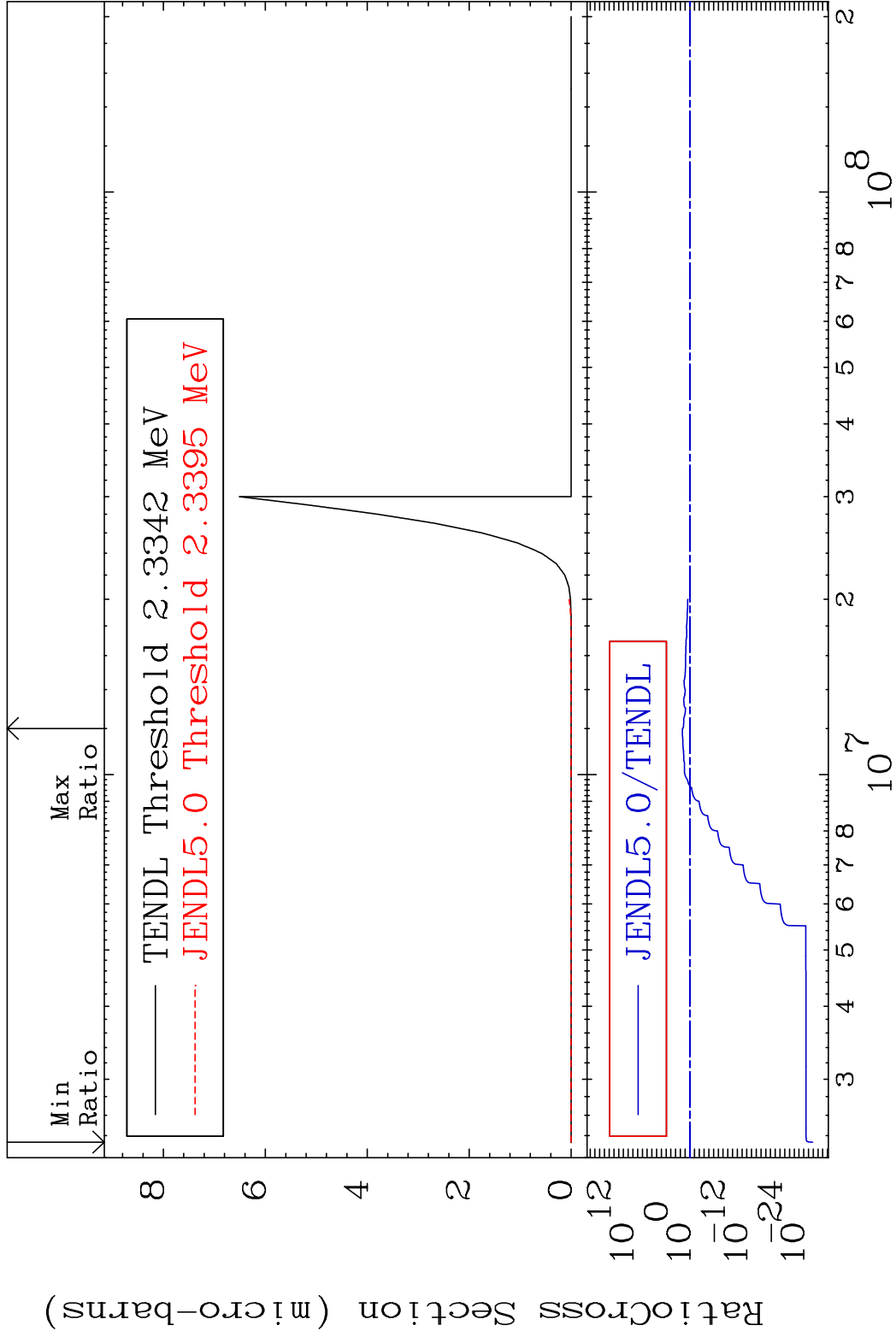


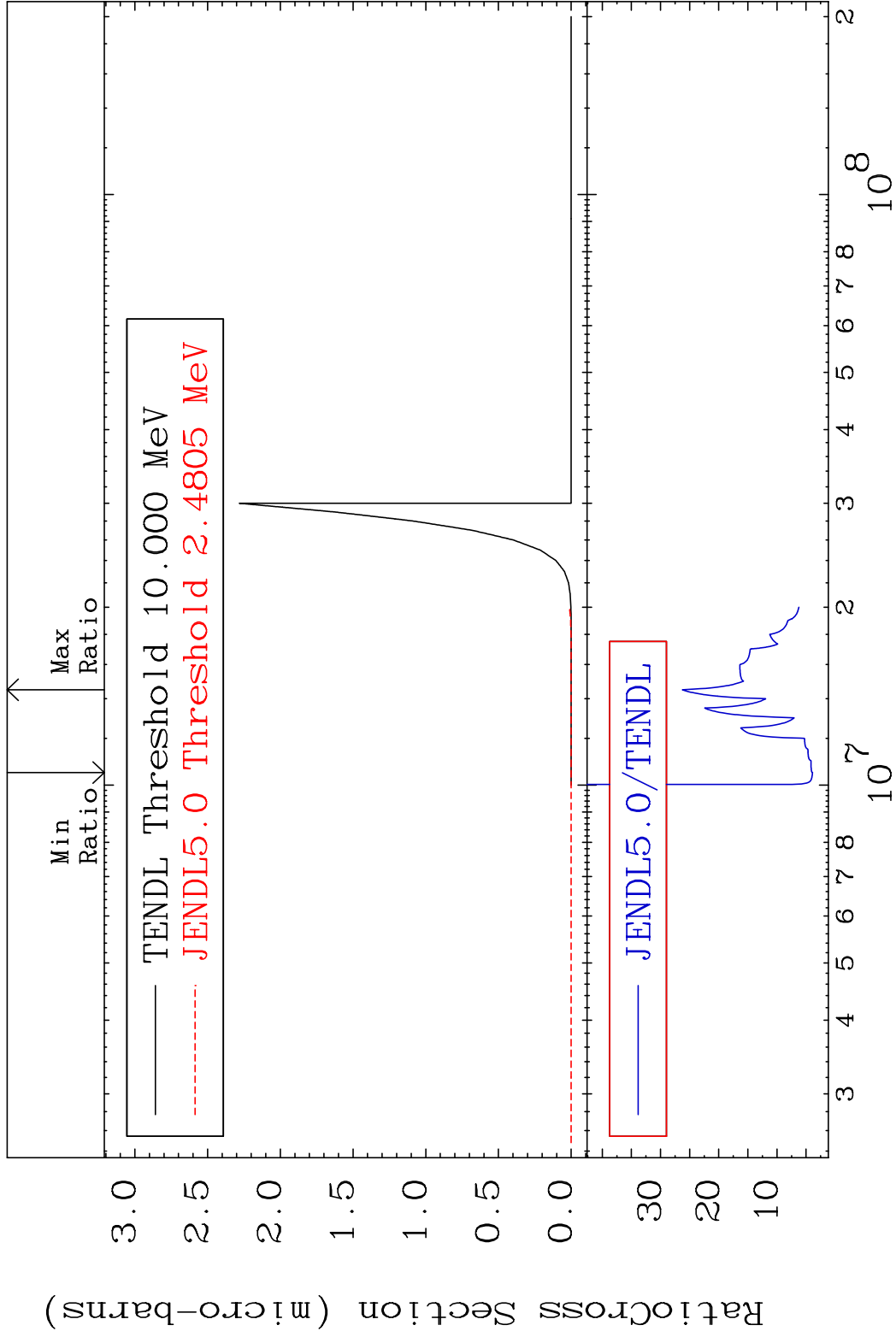


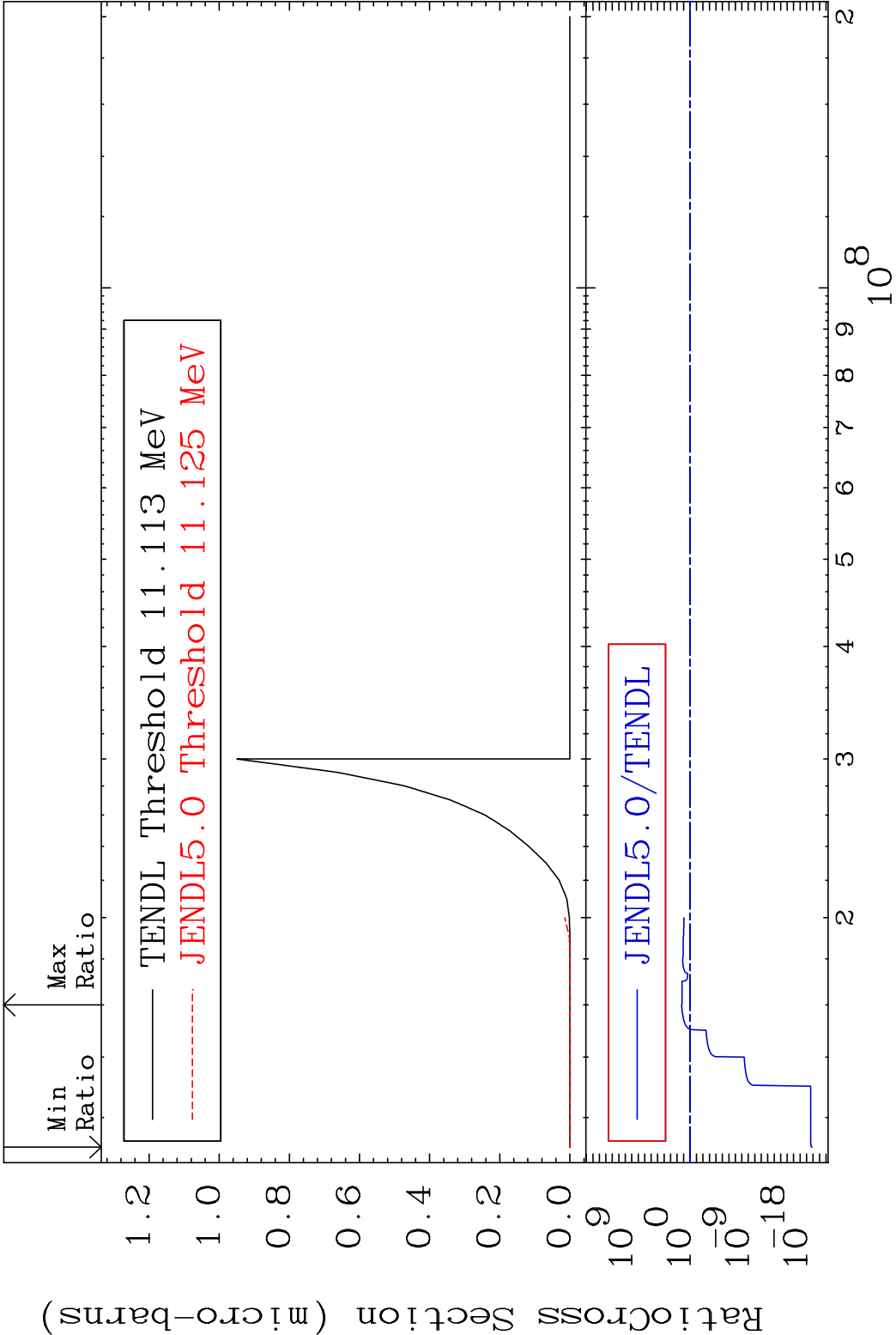


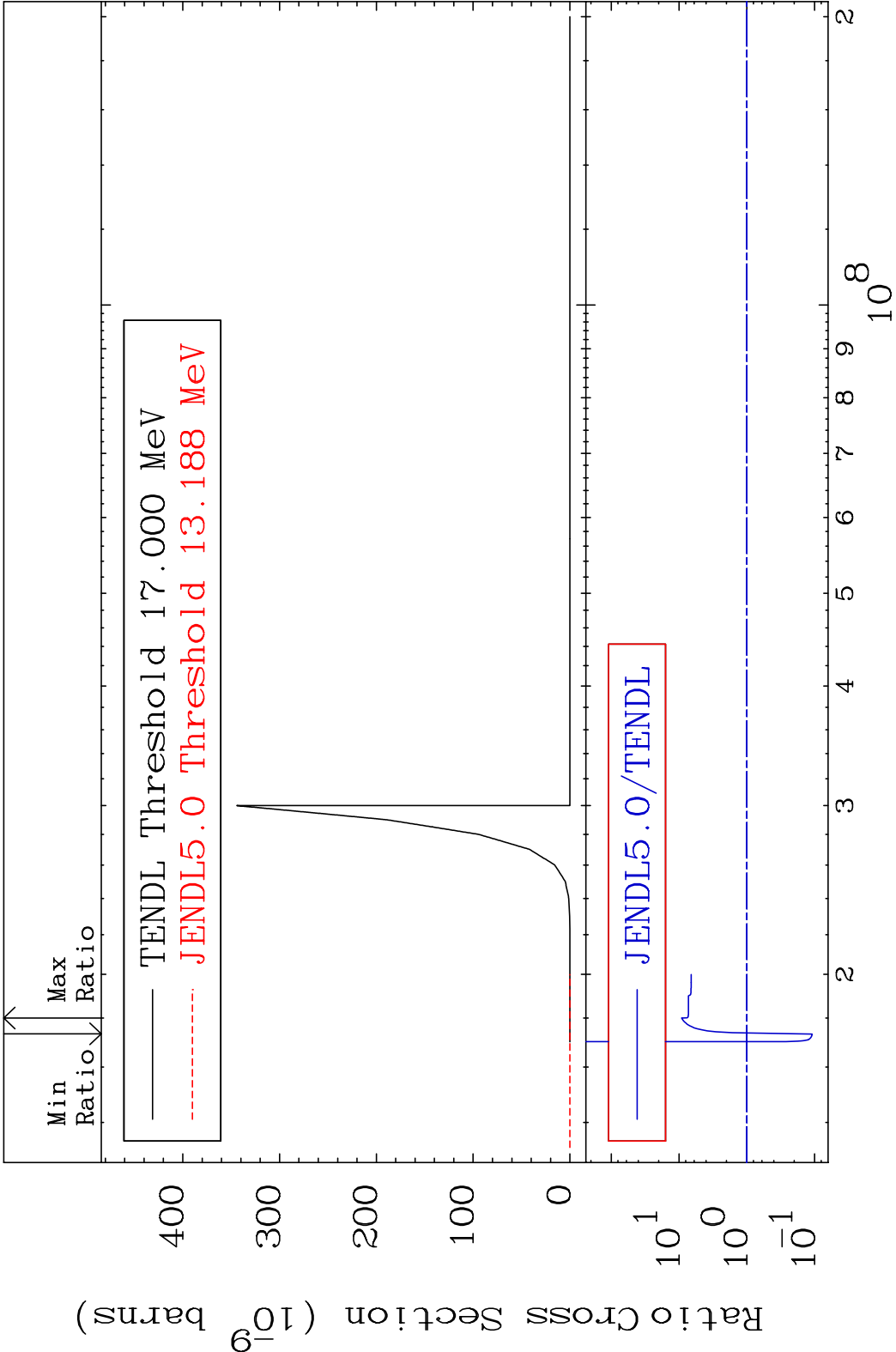


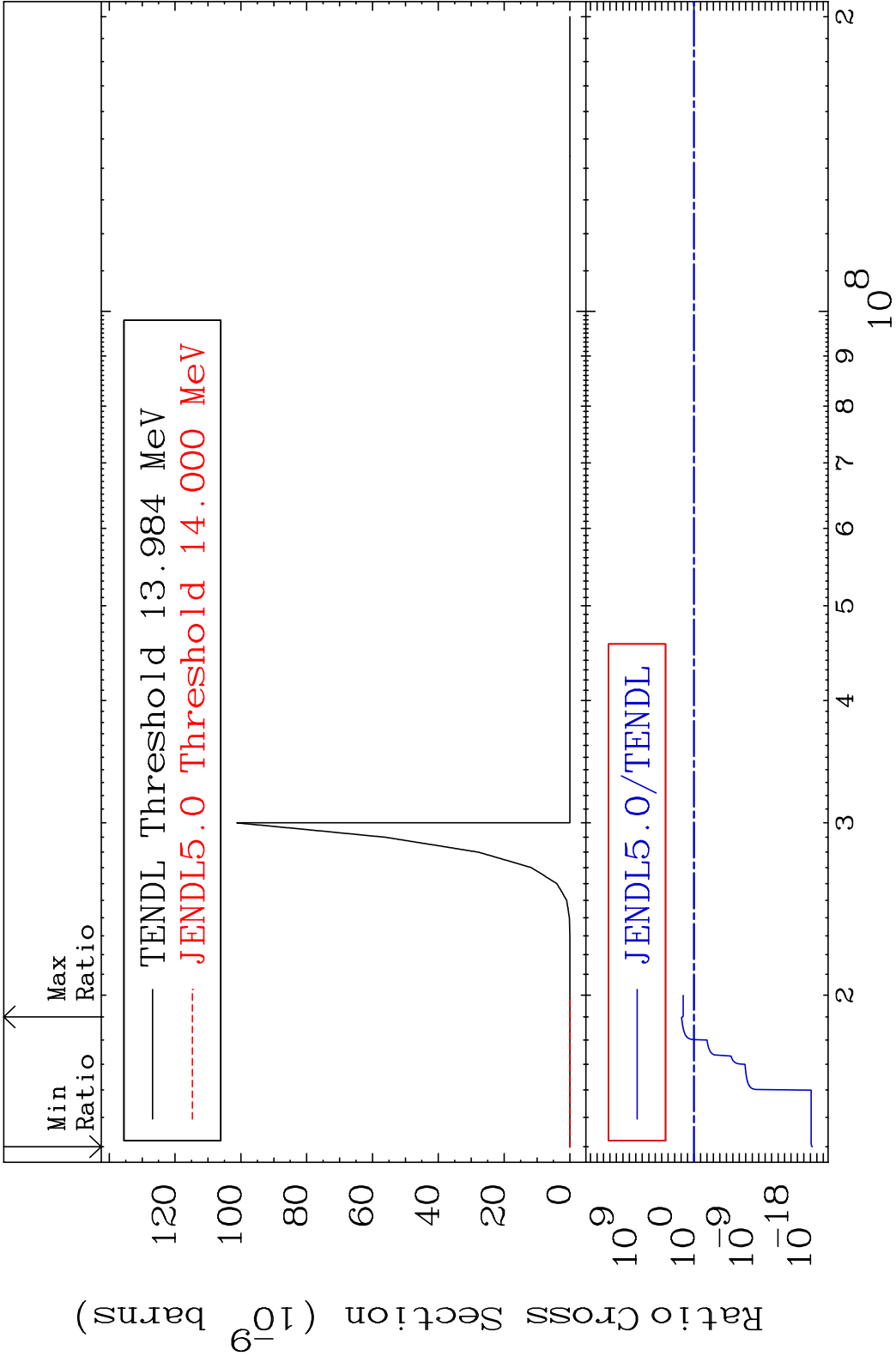
Radionuclide Production Cross Section (micro-barns)



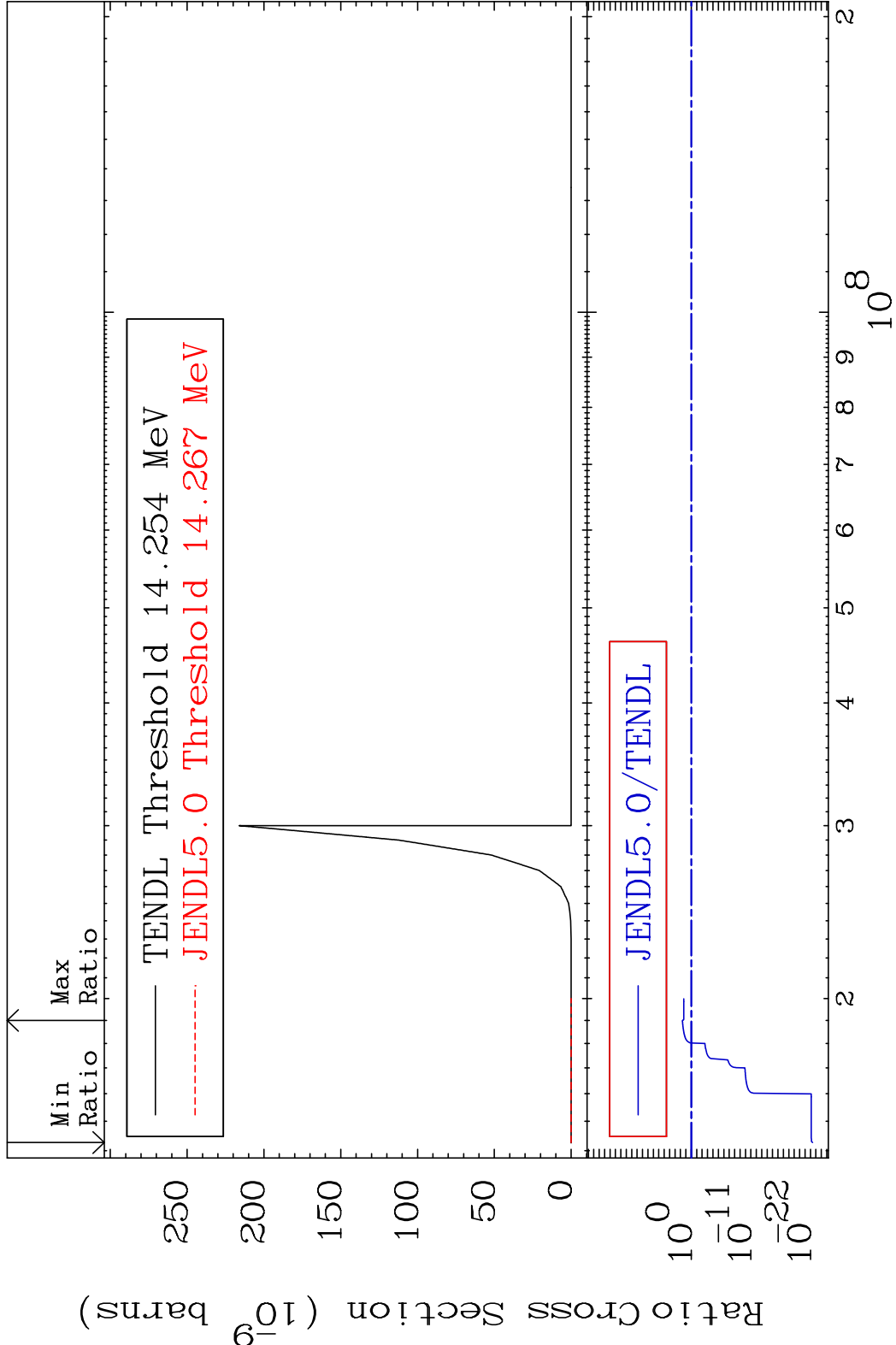


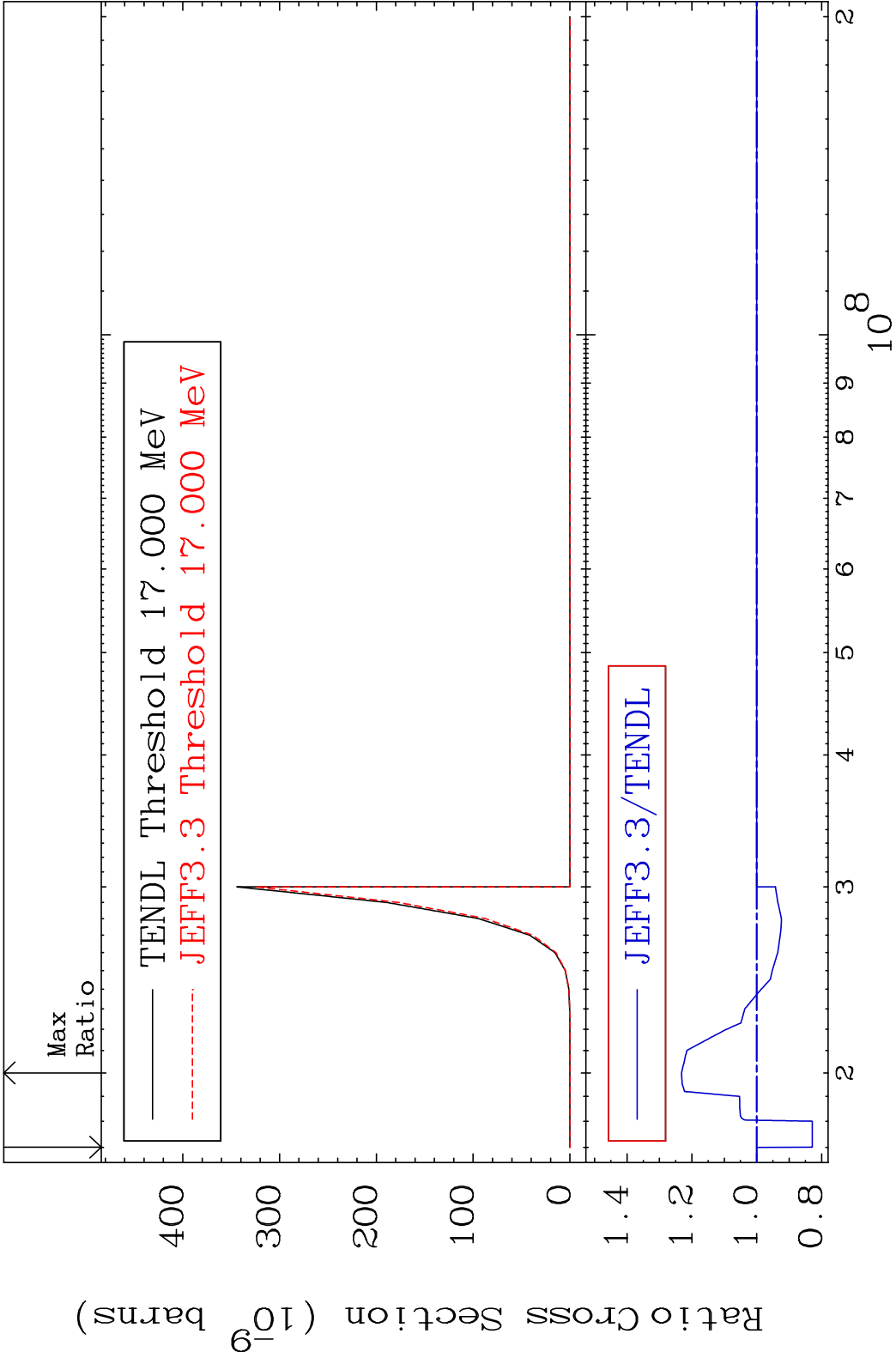






Radionuclide Production Cross Section (barns) to 4339. %





Radionuclide Production Cross Section 13.984 MeV 5.135 %

