

Program Complot
(Version 2021-1)

by

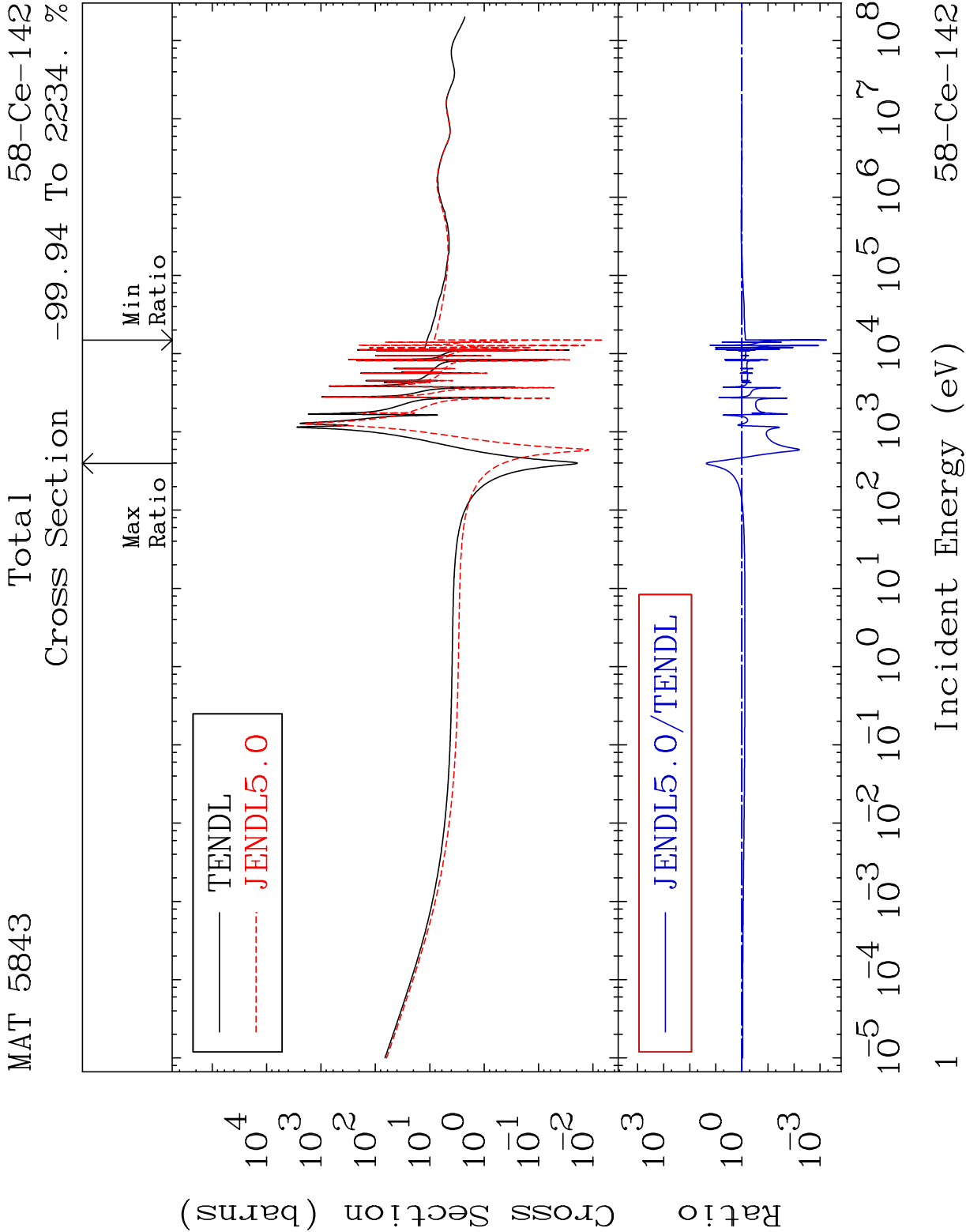
Dermott E. Cullen
(Present Contact Information)

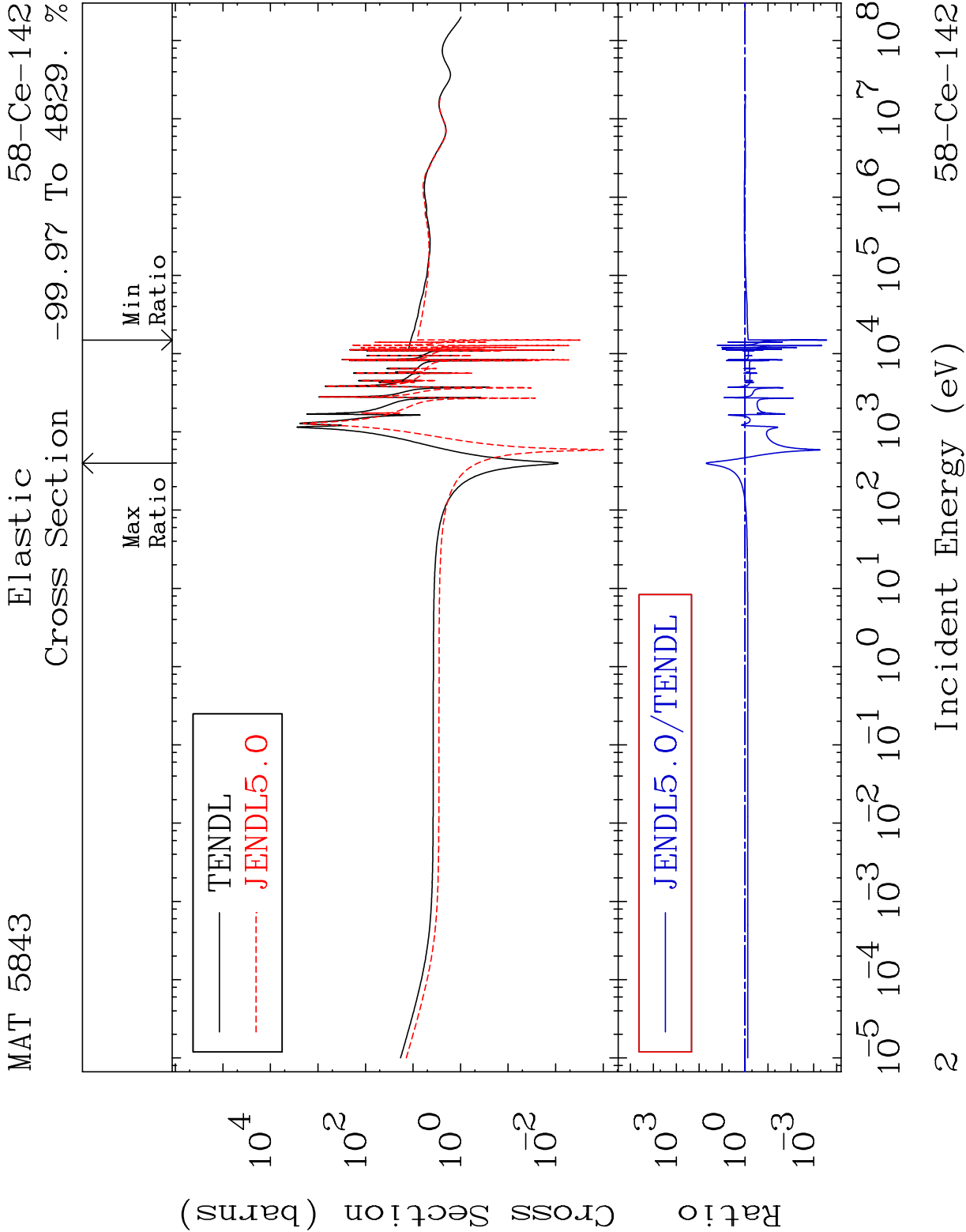
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

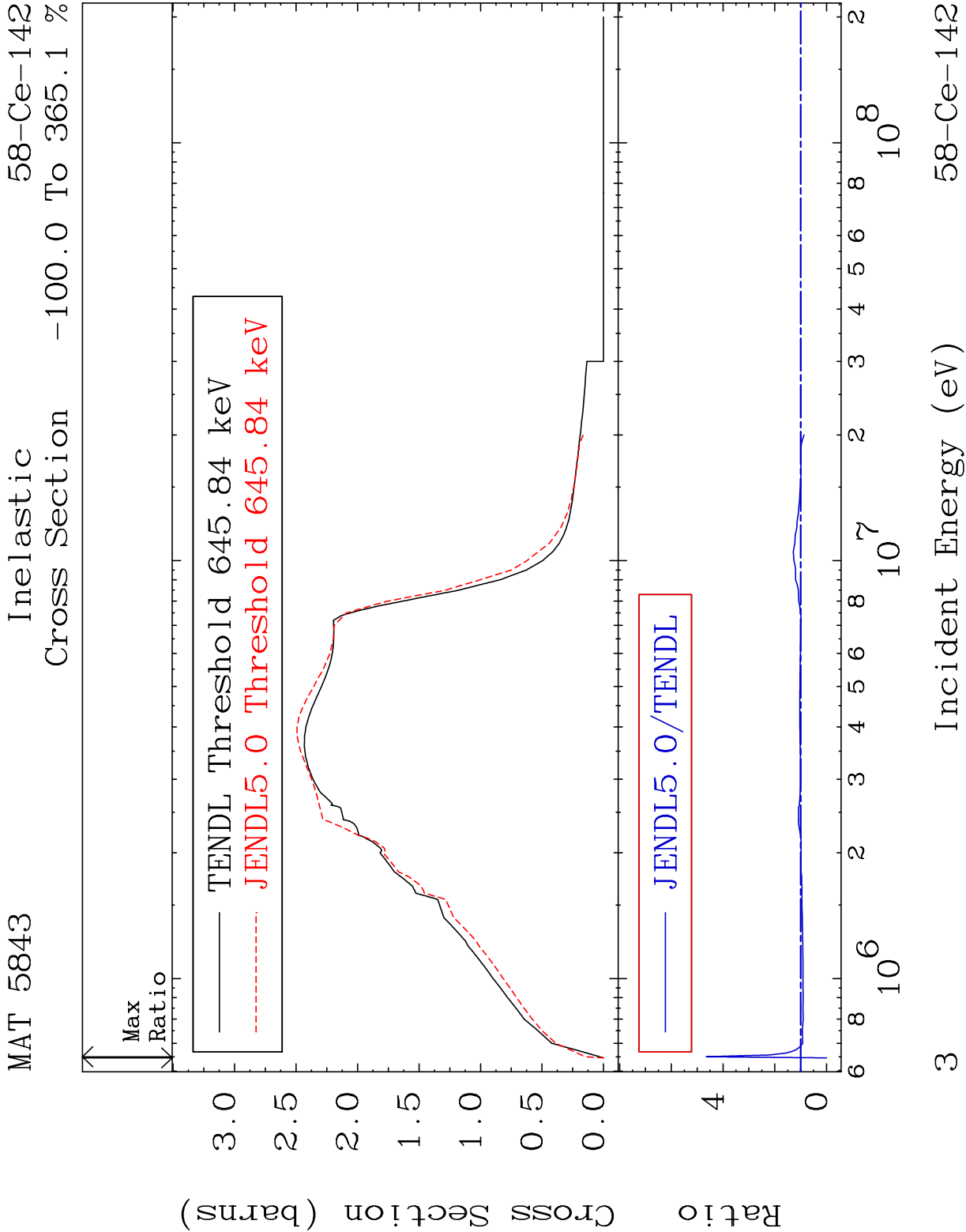
Tele: 925-443-1911

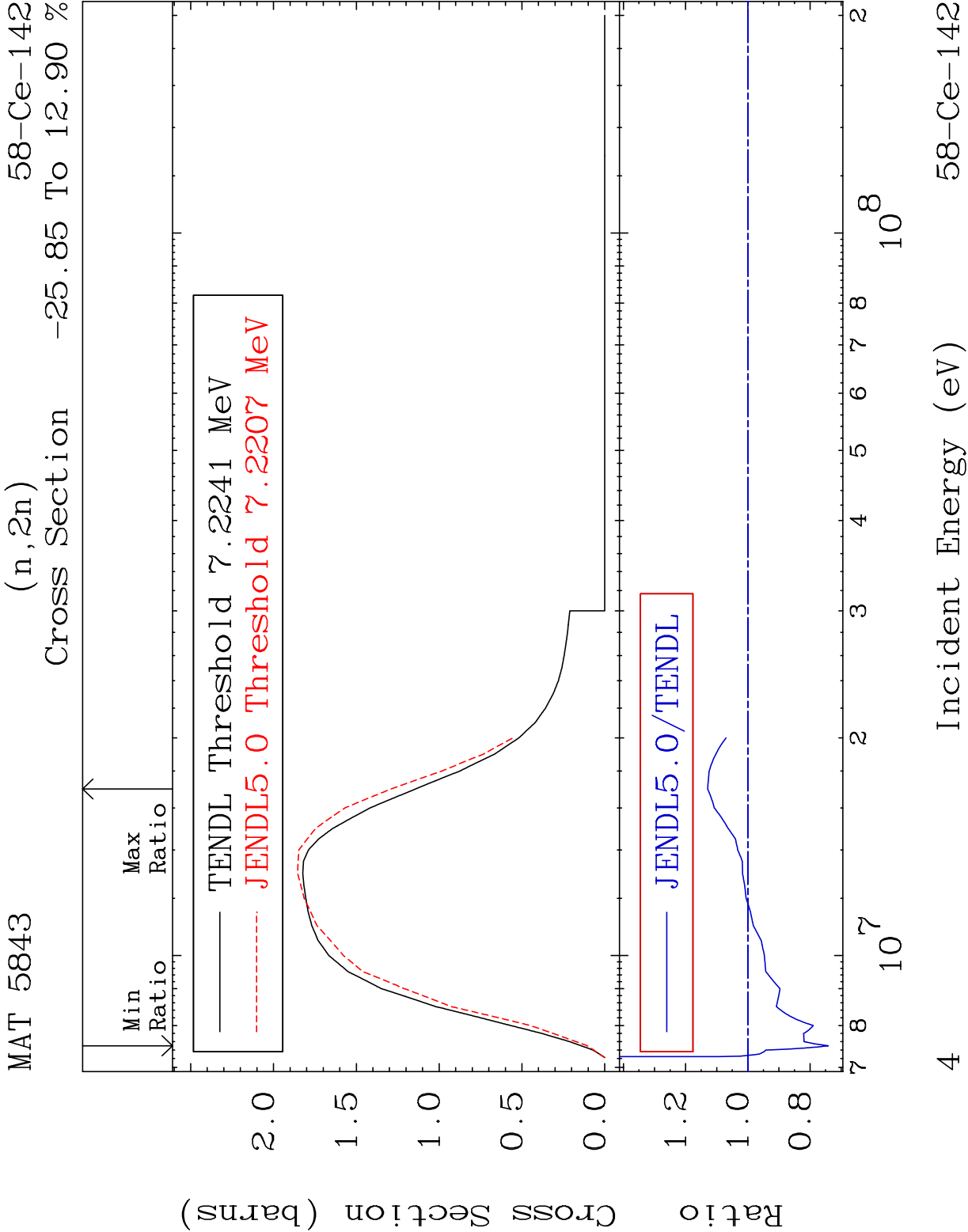
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

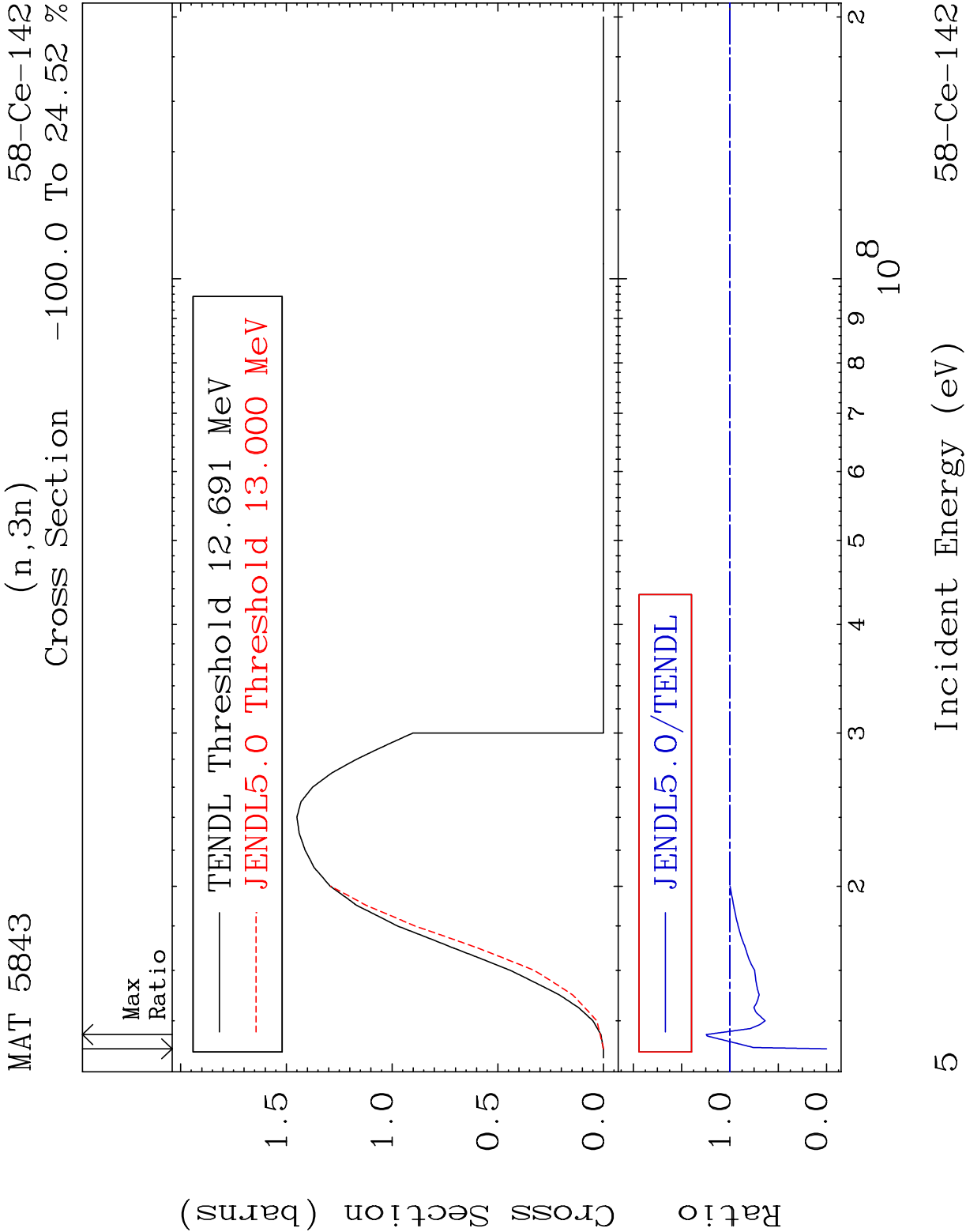
Press Mouse Button to Start

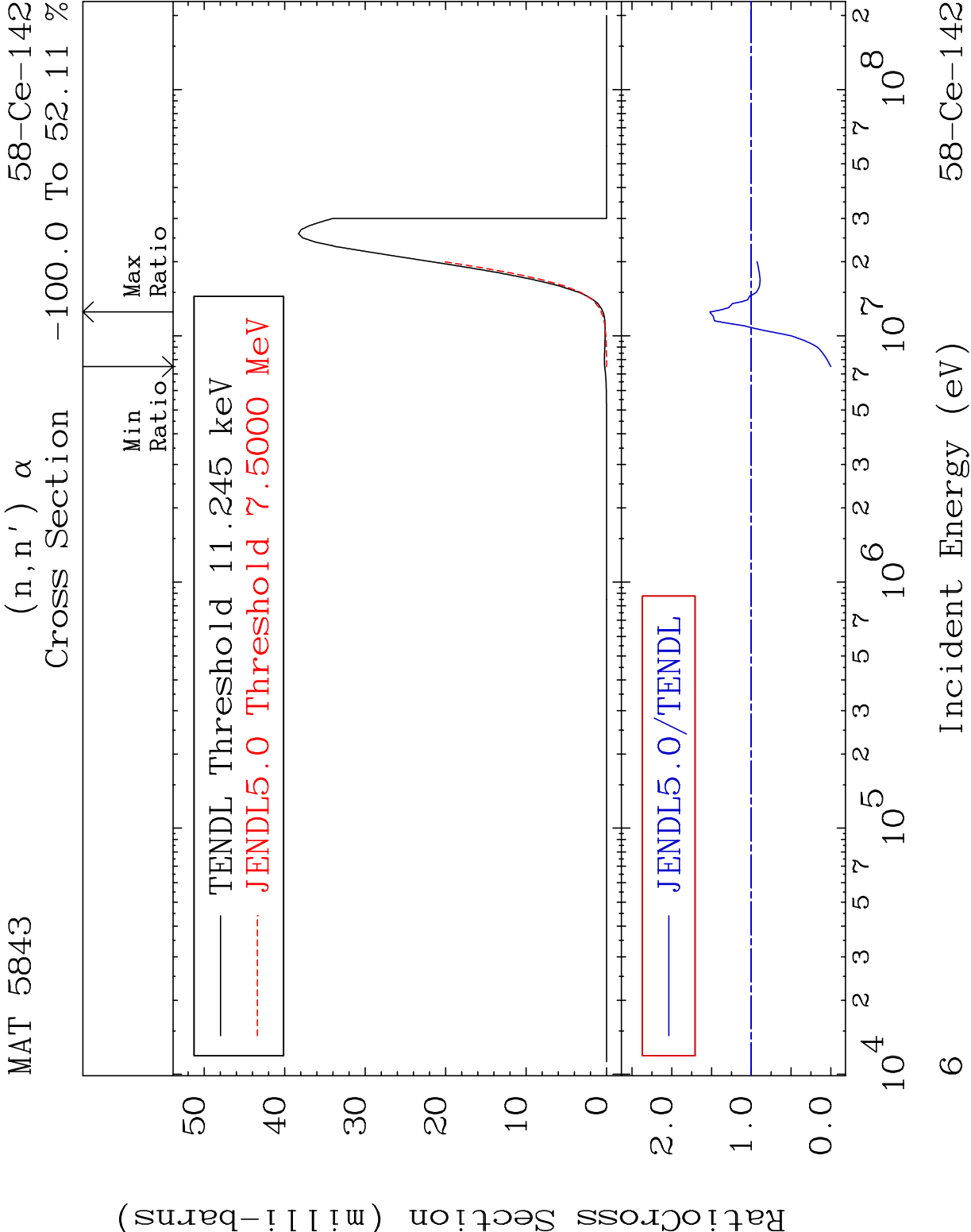


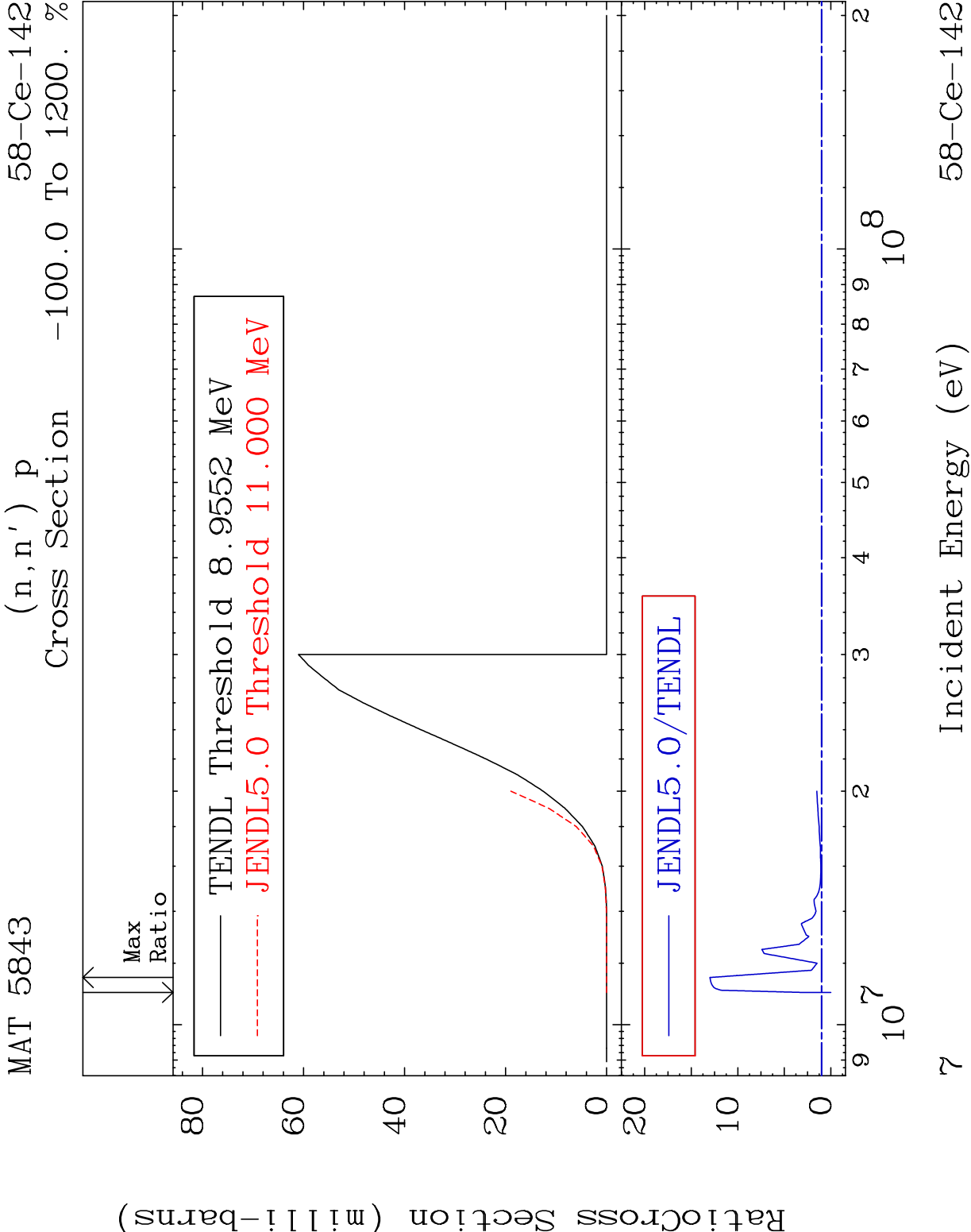


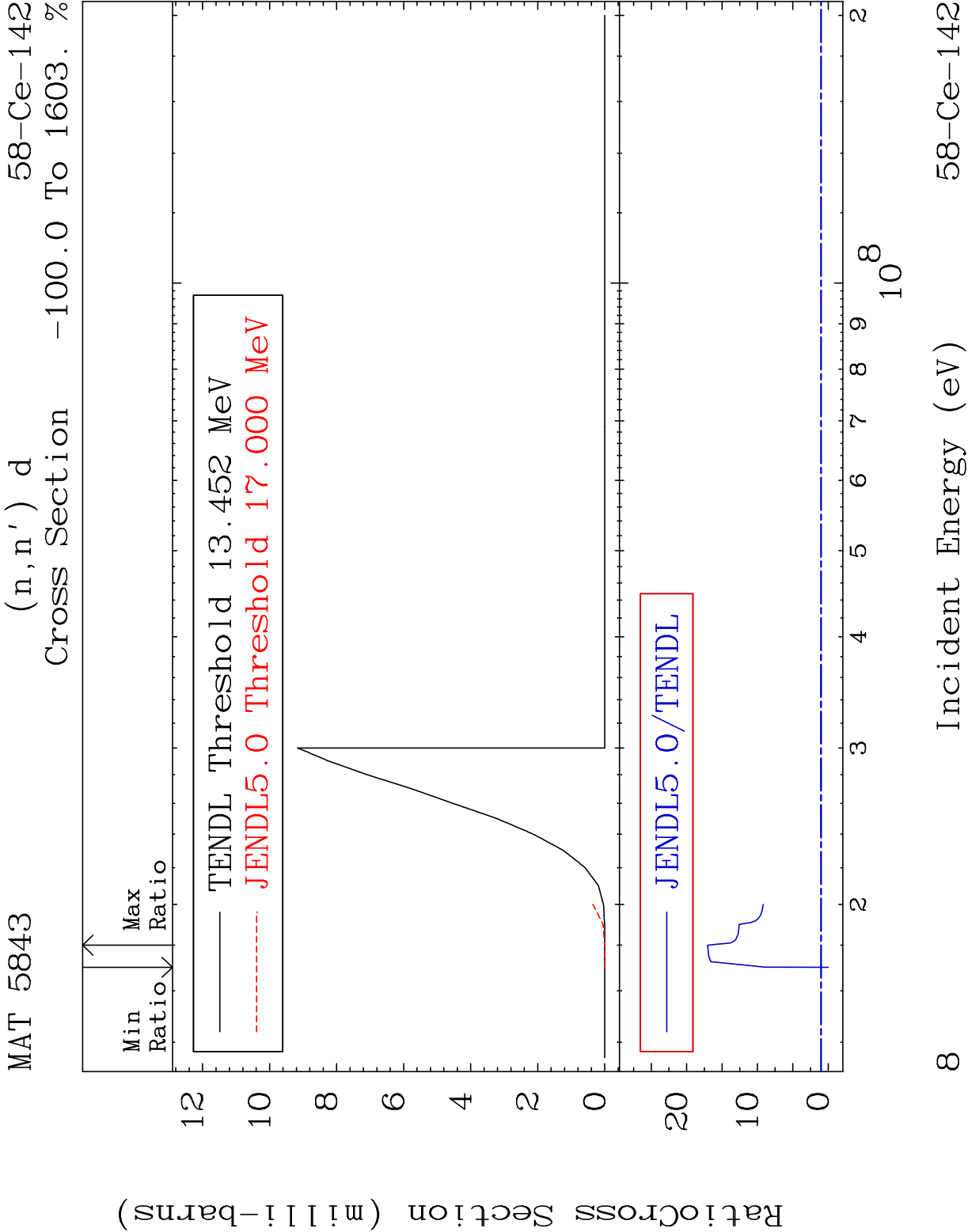




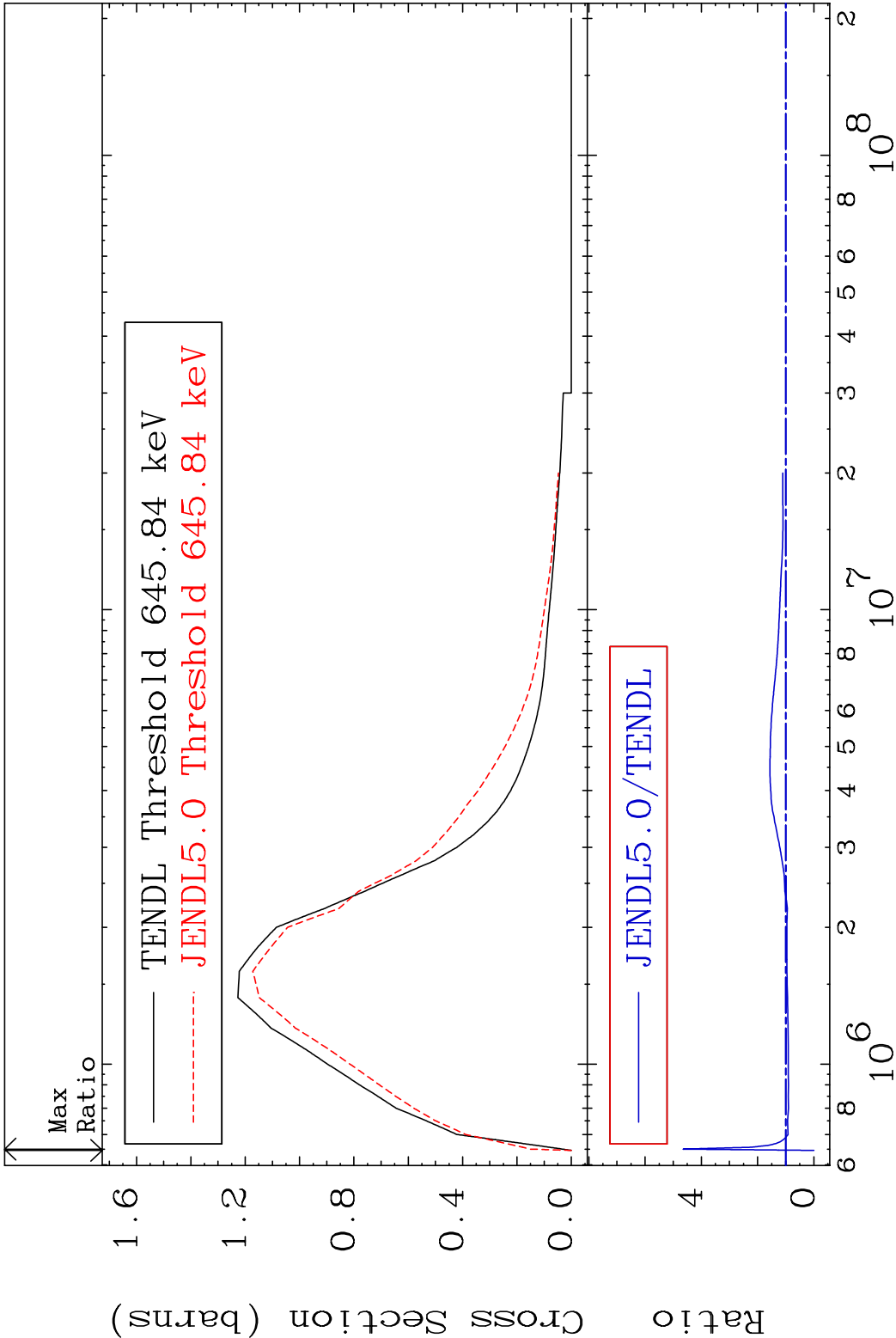








MAT 5843 MT= 51 (n,n') Level 58-Ce-142
Cross Section -100.0 To 365.1 %



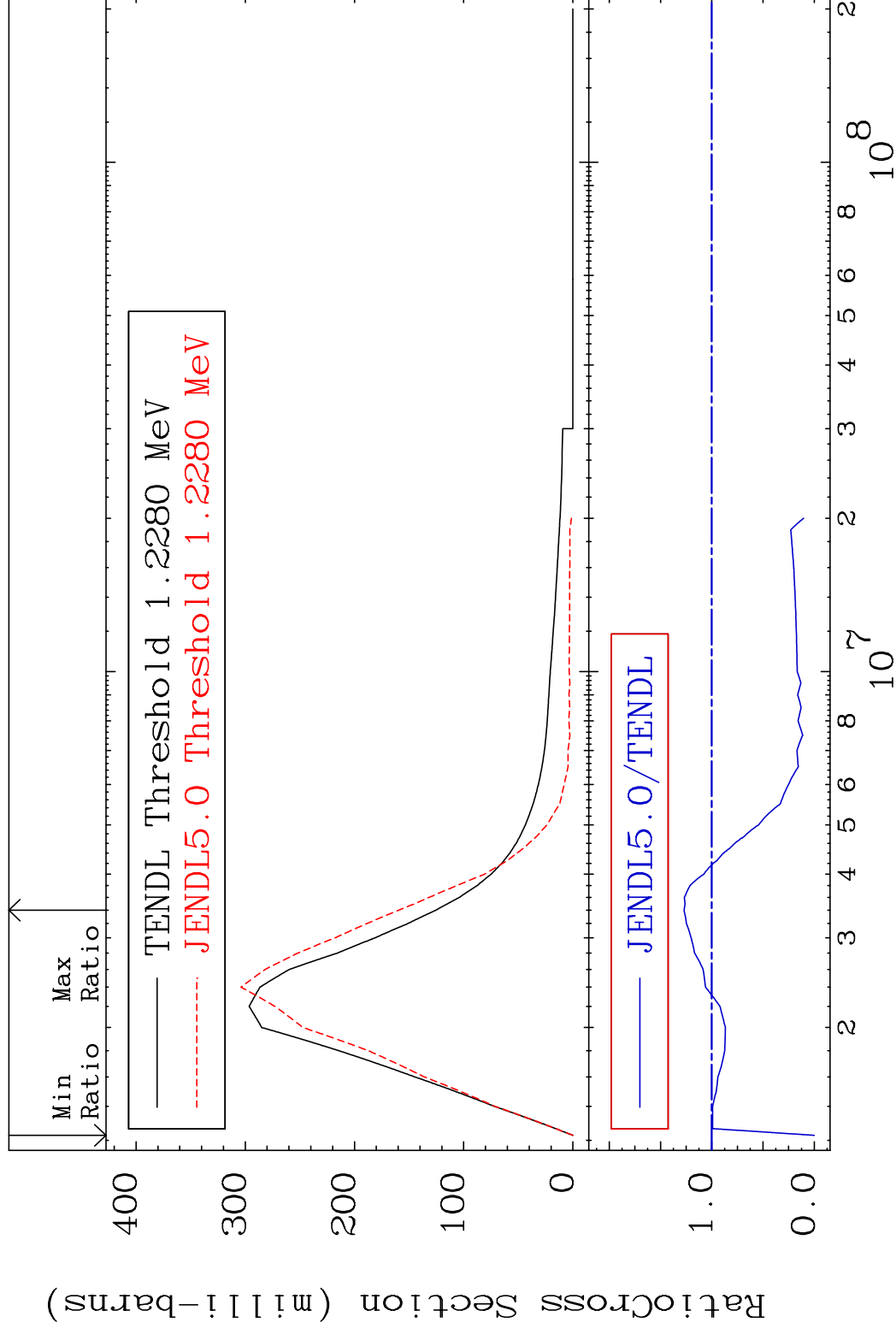
9 Incident Energy (eV) 58-Ce-142

MAT 5843

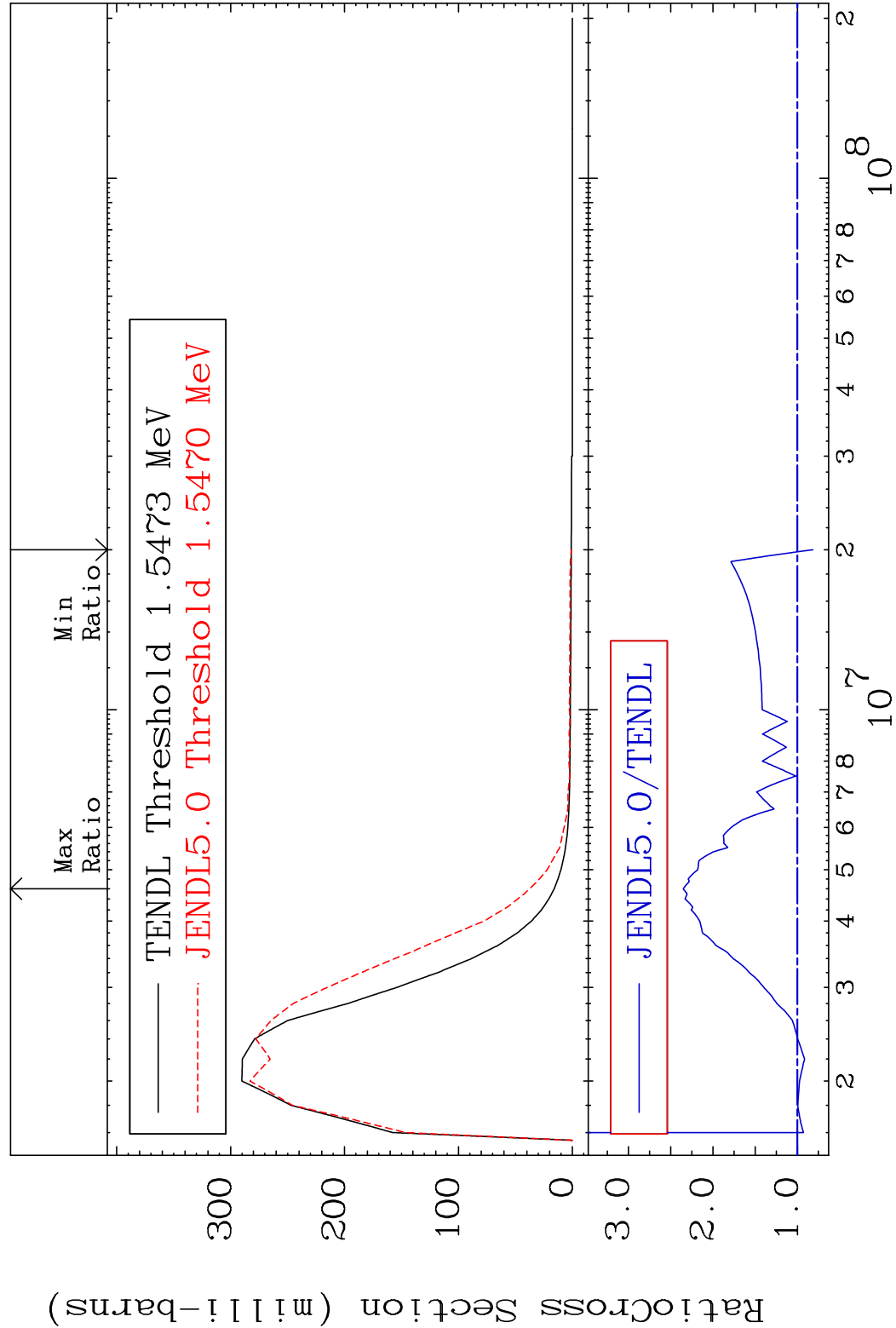
MT= 52 (n, n') Level

58-Ce-142

Cross Section	-100.0 To 27.04 %



MAT 5843	MT= 53 (n,n')	Level	58-Ce-142
	Cross Section	-18.36 To 135.2 %	



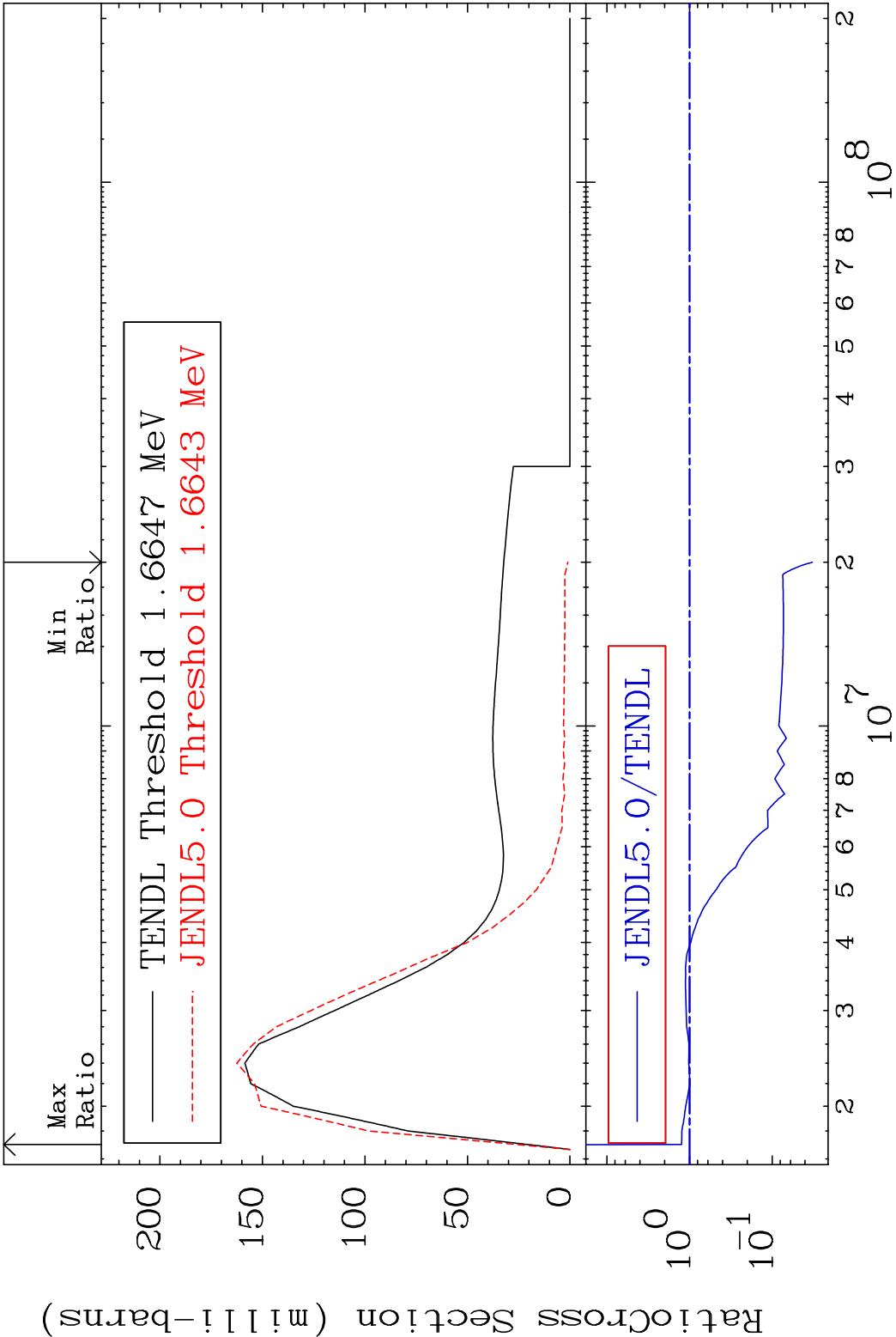
MAT 5843

MT= 54 (n,n') Level

58-Ce-142

Cross Section

-96.72 To 25.18 %

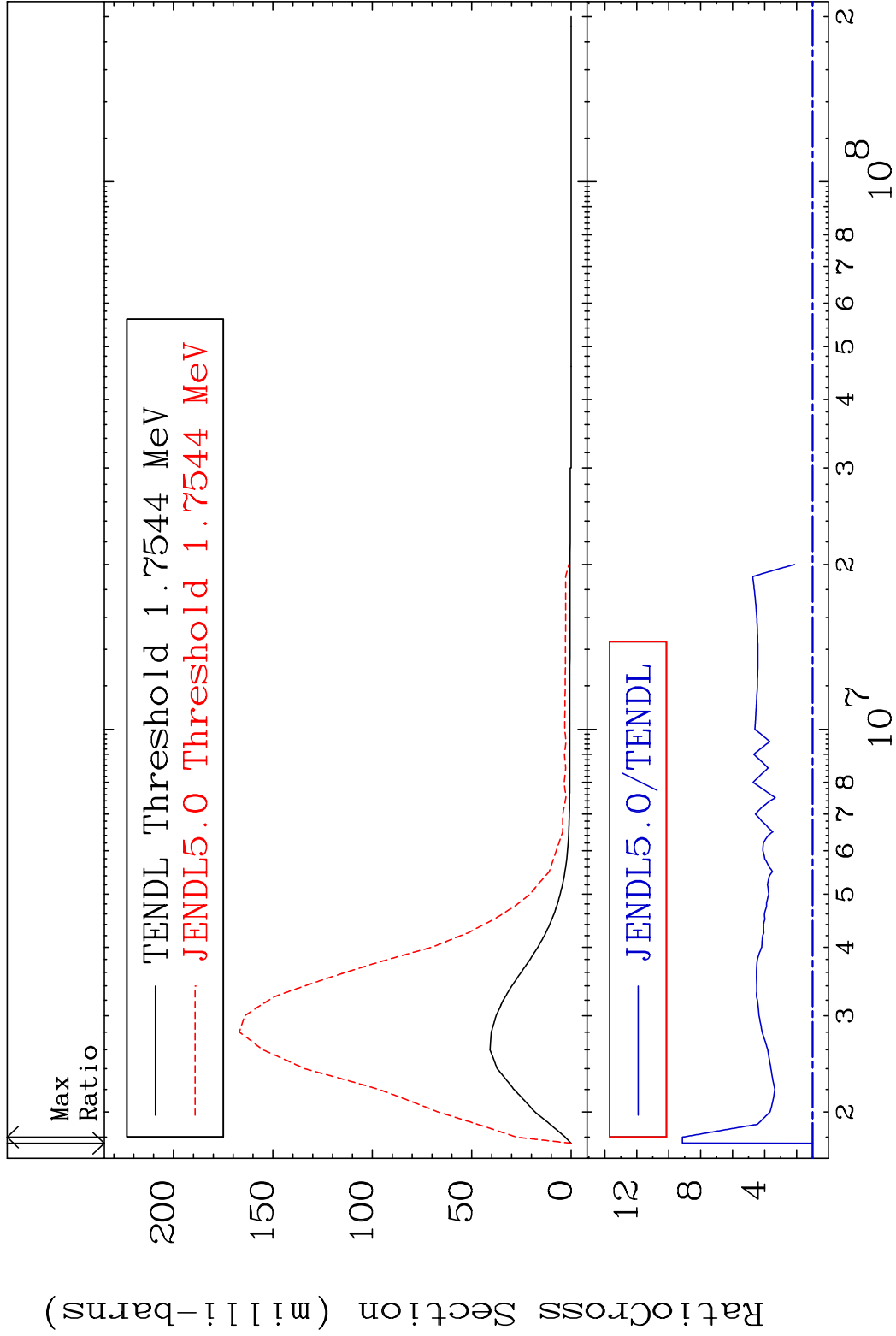


12

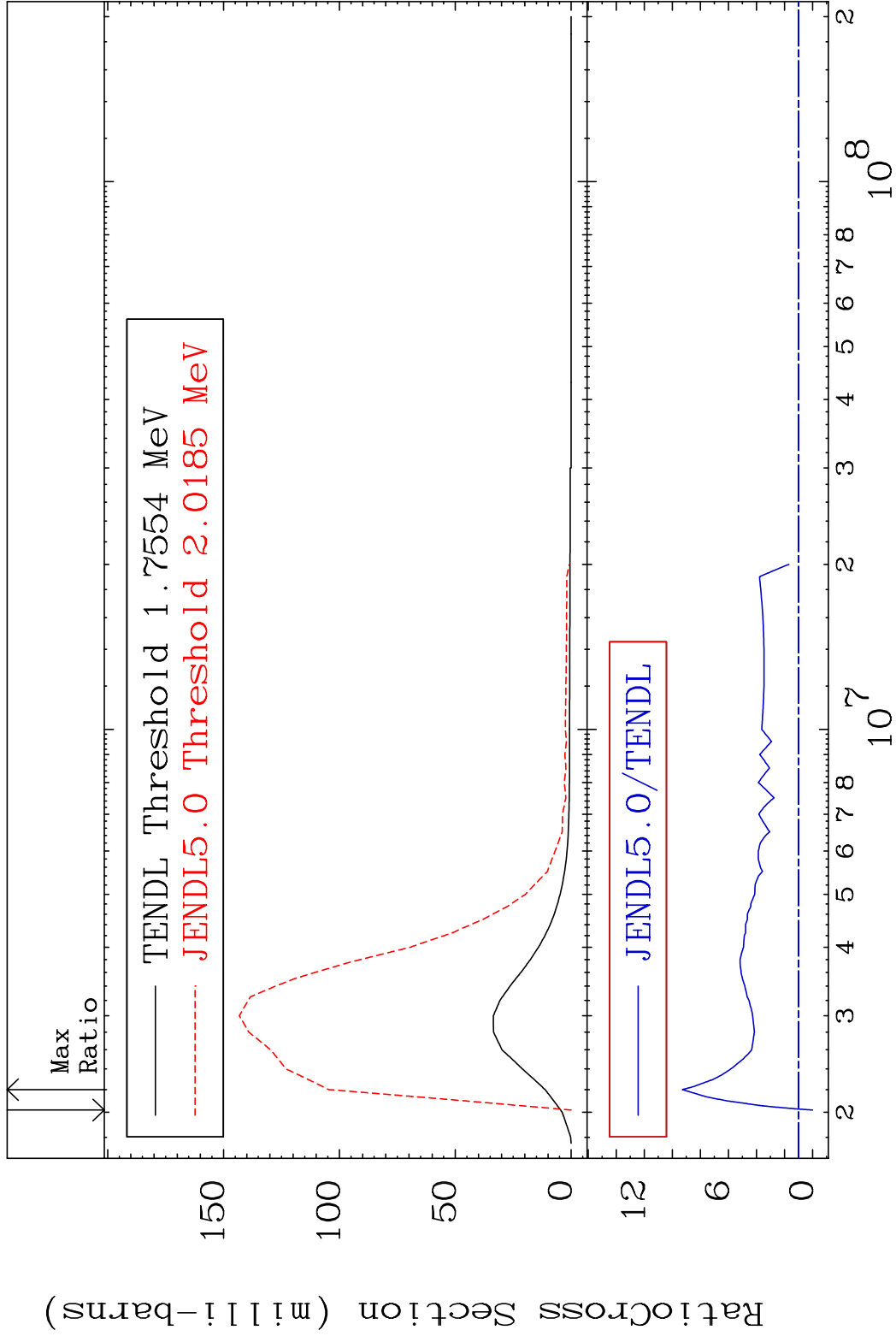
Incident Energy (eV)

58-Ce-142

MAT 5843 MT= 55 (n,n') Level 58-Ce-142
Cross Section 0.000 To 814.6 %



MAT 5843 MT= 56 (n,n') Level 58-Ce-142
Cross Section -100.0 To 828.3 %



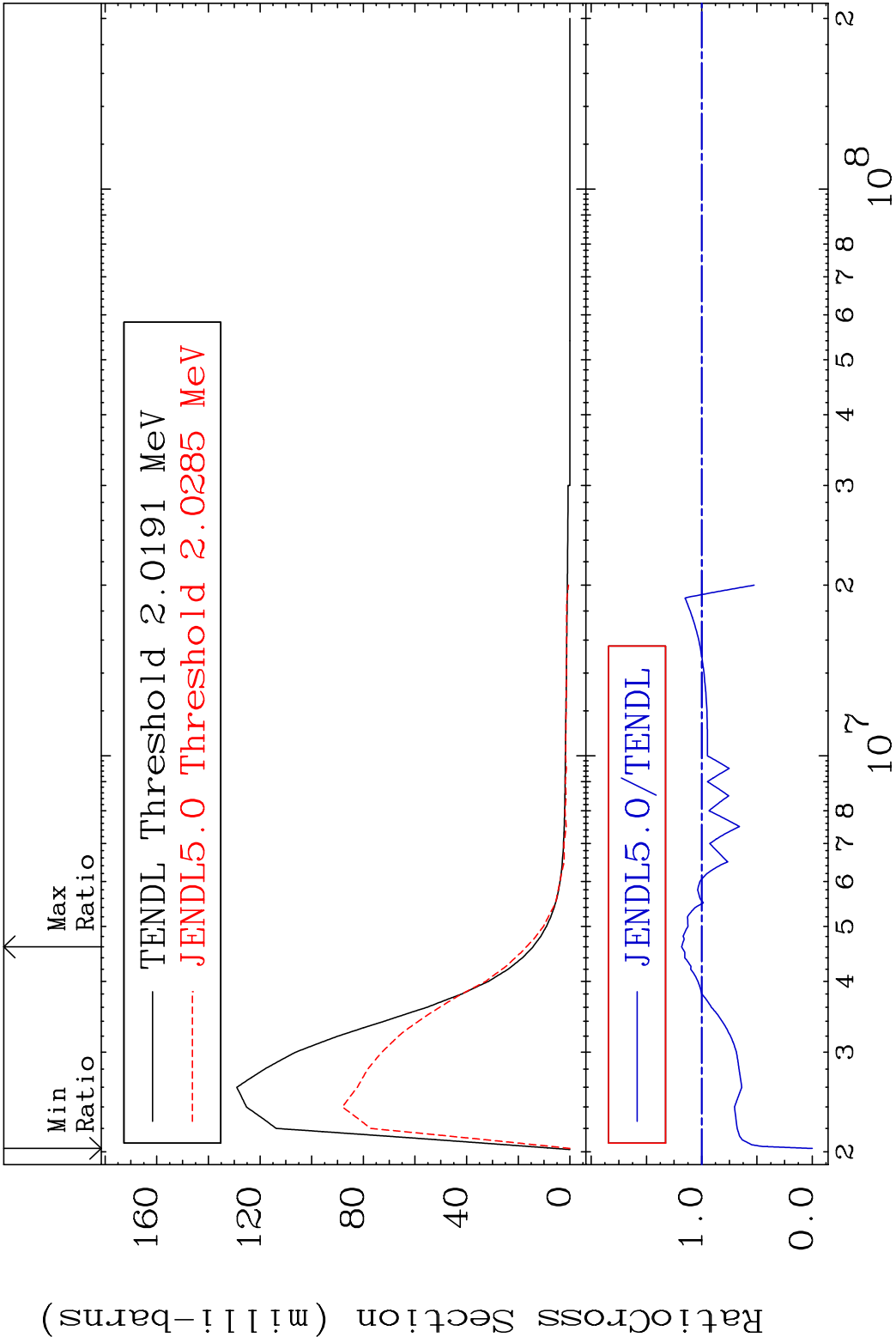
MAT 5843

MT= 57 (n,n') Level

58-Ce-142

Cross Section

-100.0 To 18.24 %



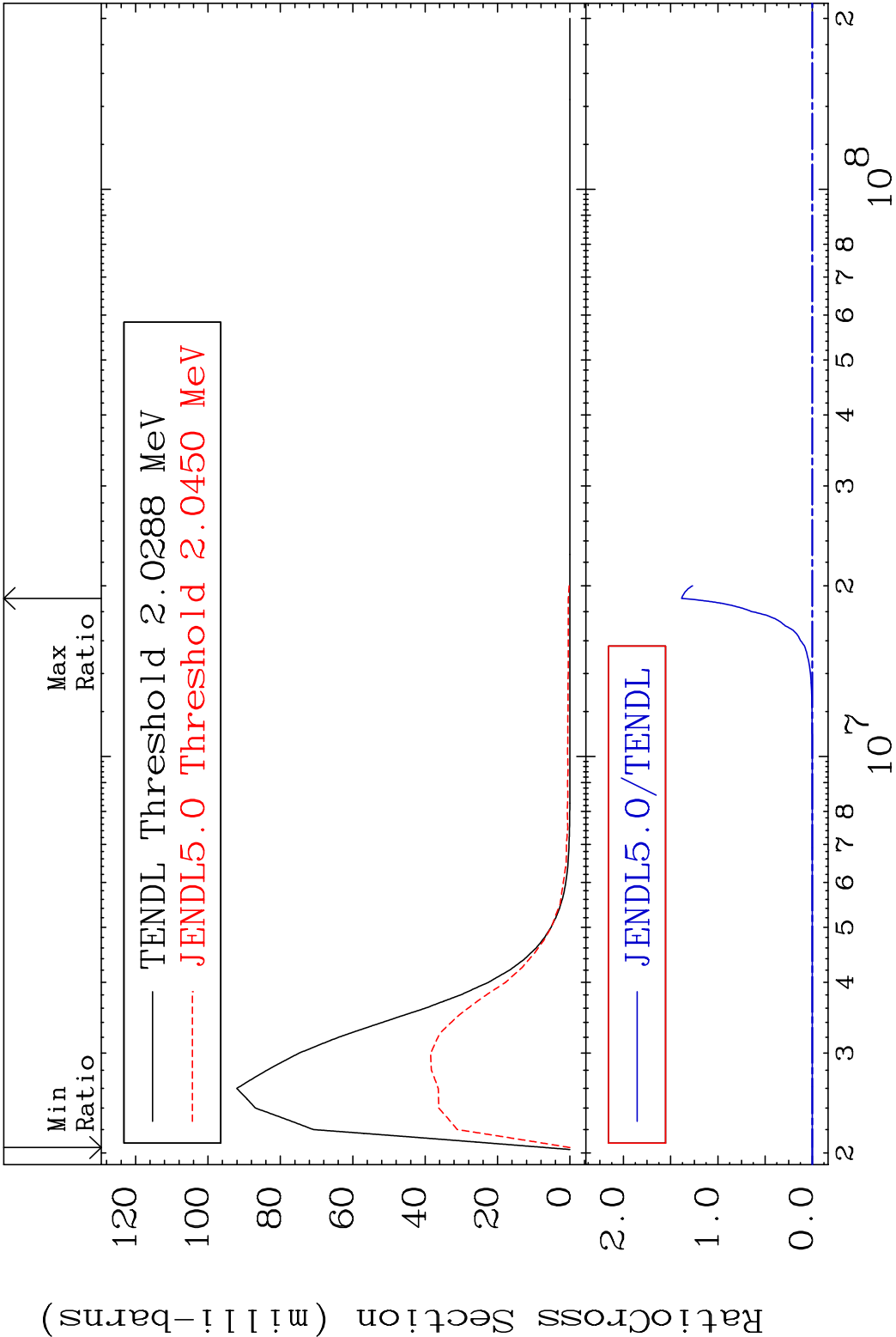
MAT 5843

MT= 58 (n,n') Level

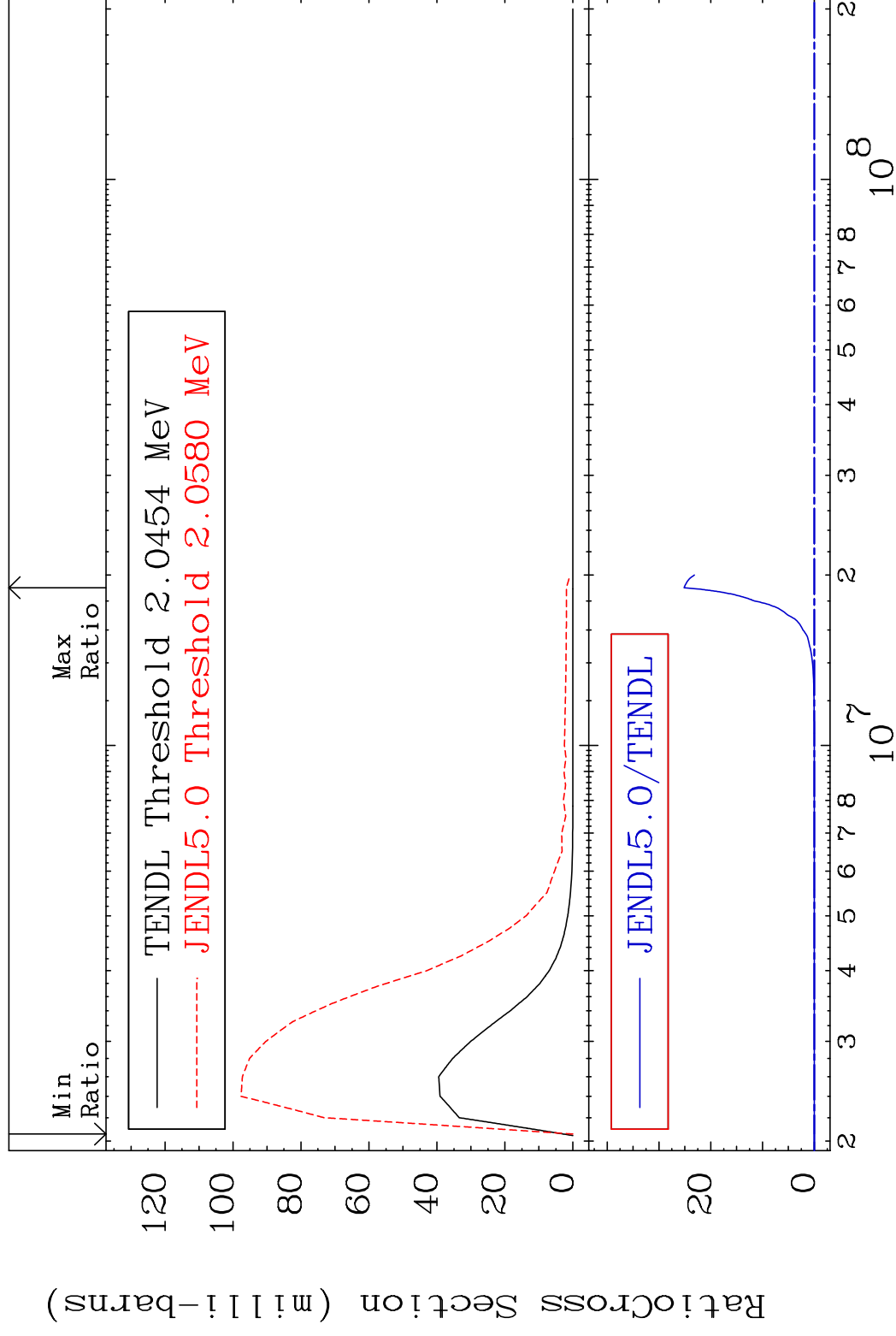
58-Ce-142

Cross Section

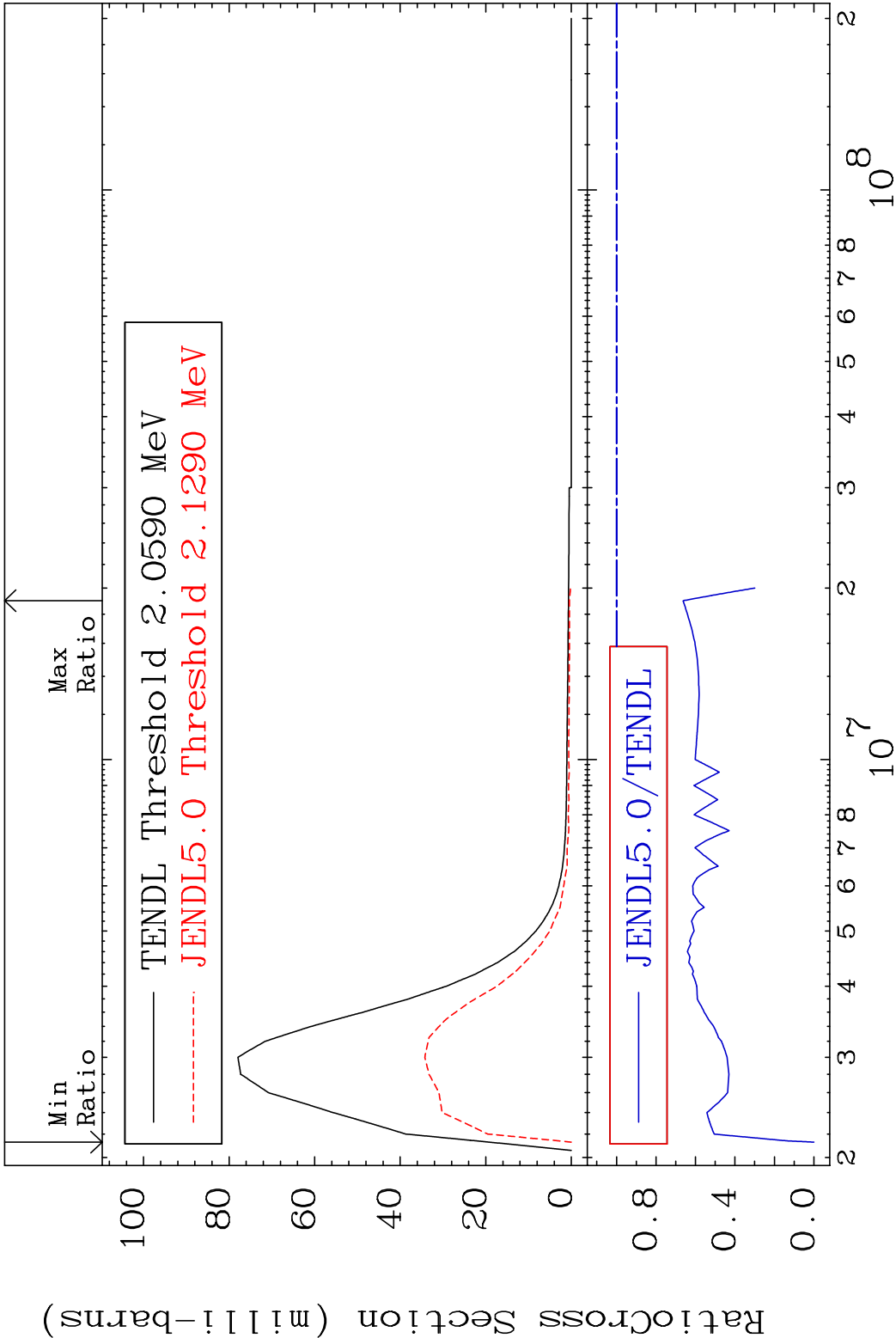
-100.0 To 9999. %



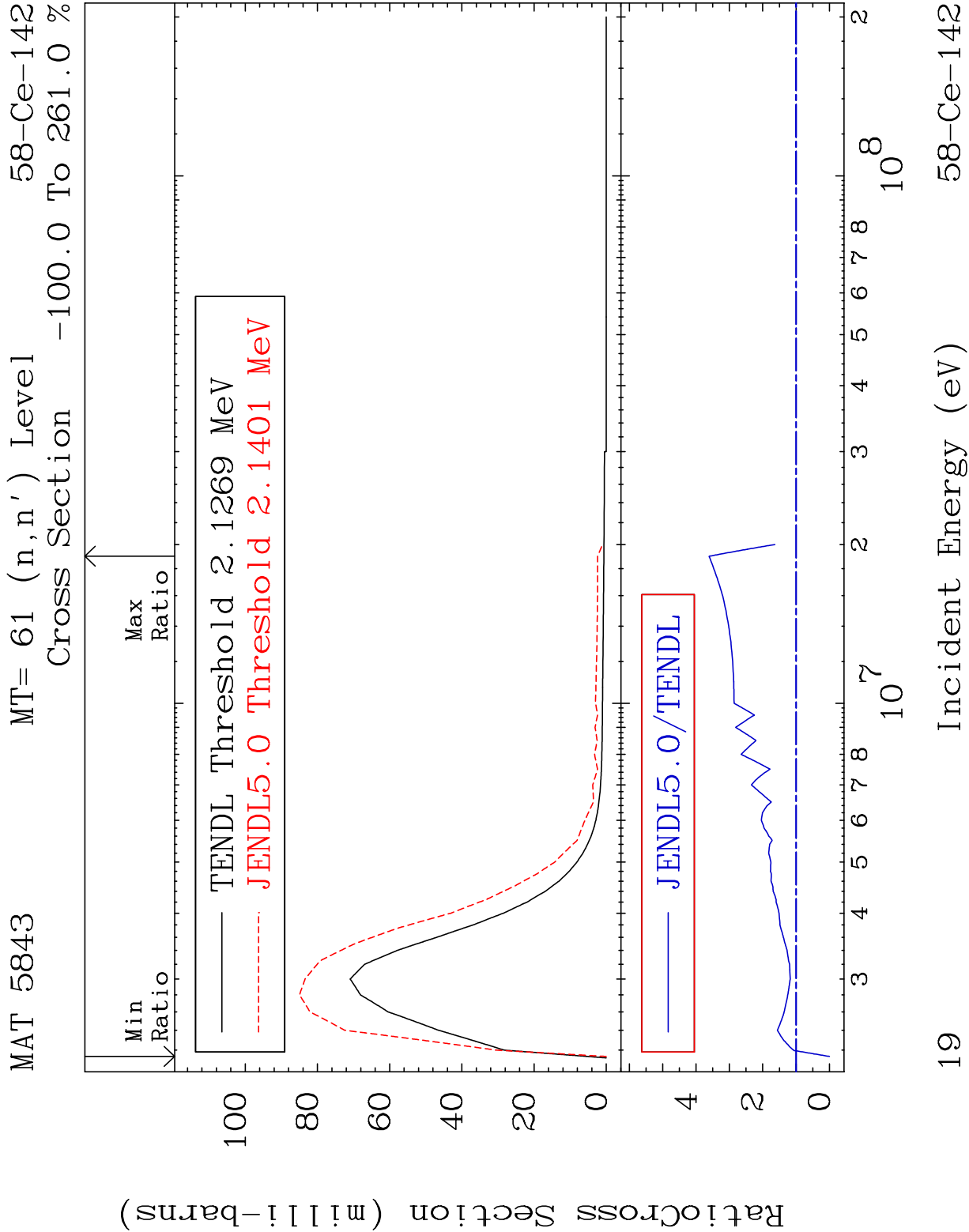
MAT 5843 MT= 59 (n, n') Level 58-Ce-142
Cross Section -100.0 To 9999. %



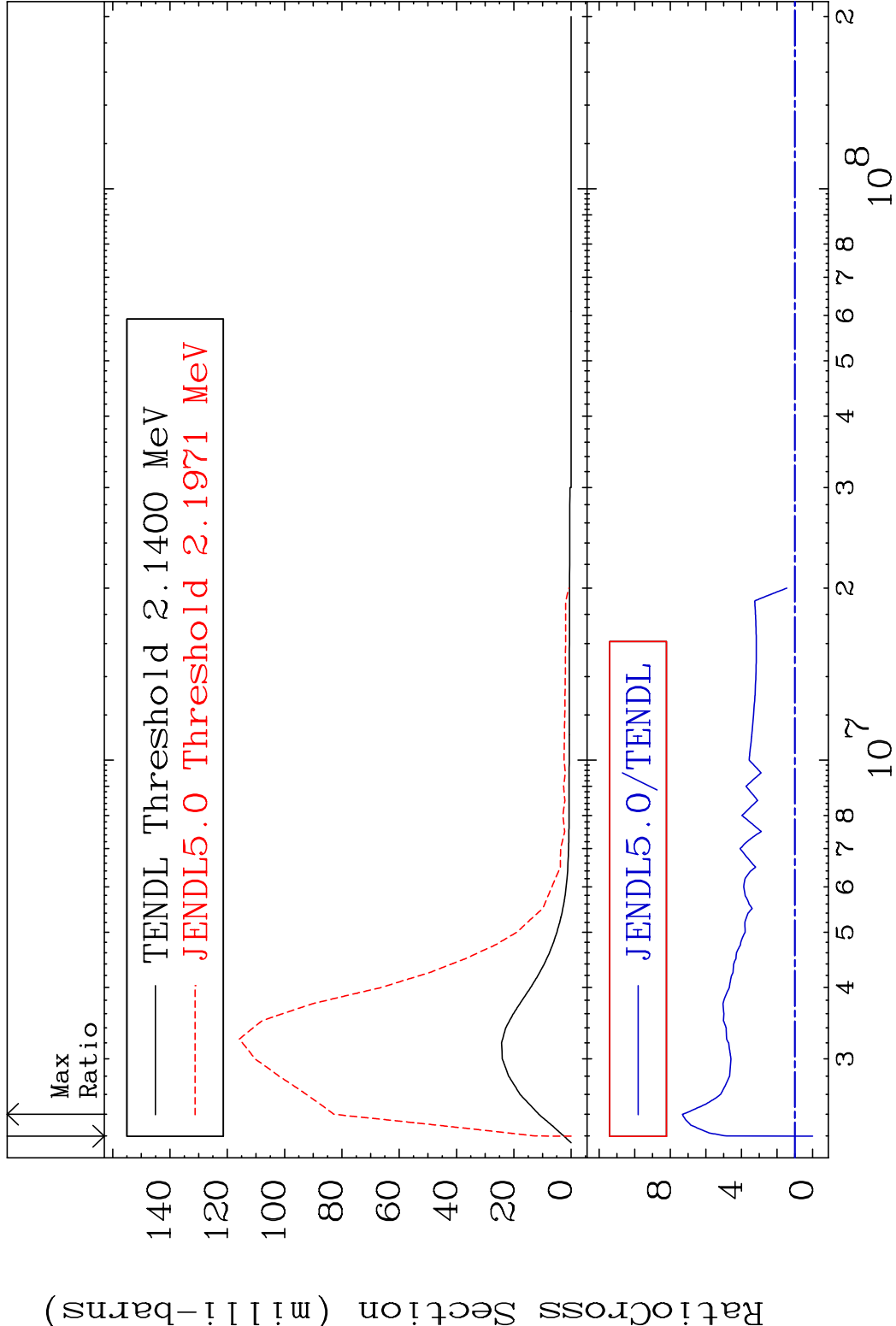
MAT 5843 MT= 60 (n,n') Level 58-Ce-142
Cross Section -100.0 To -33.71%

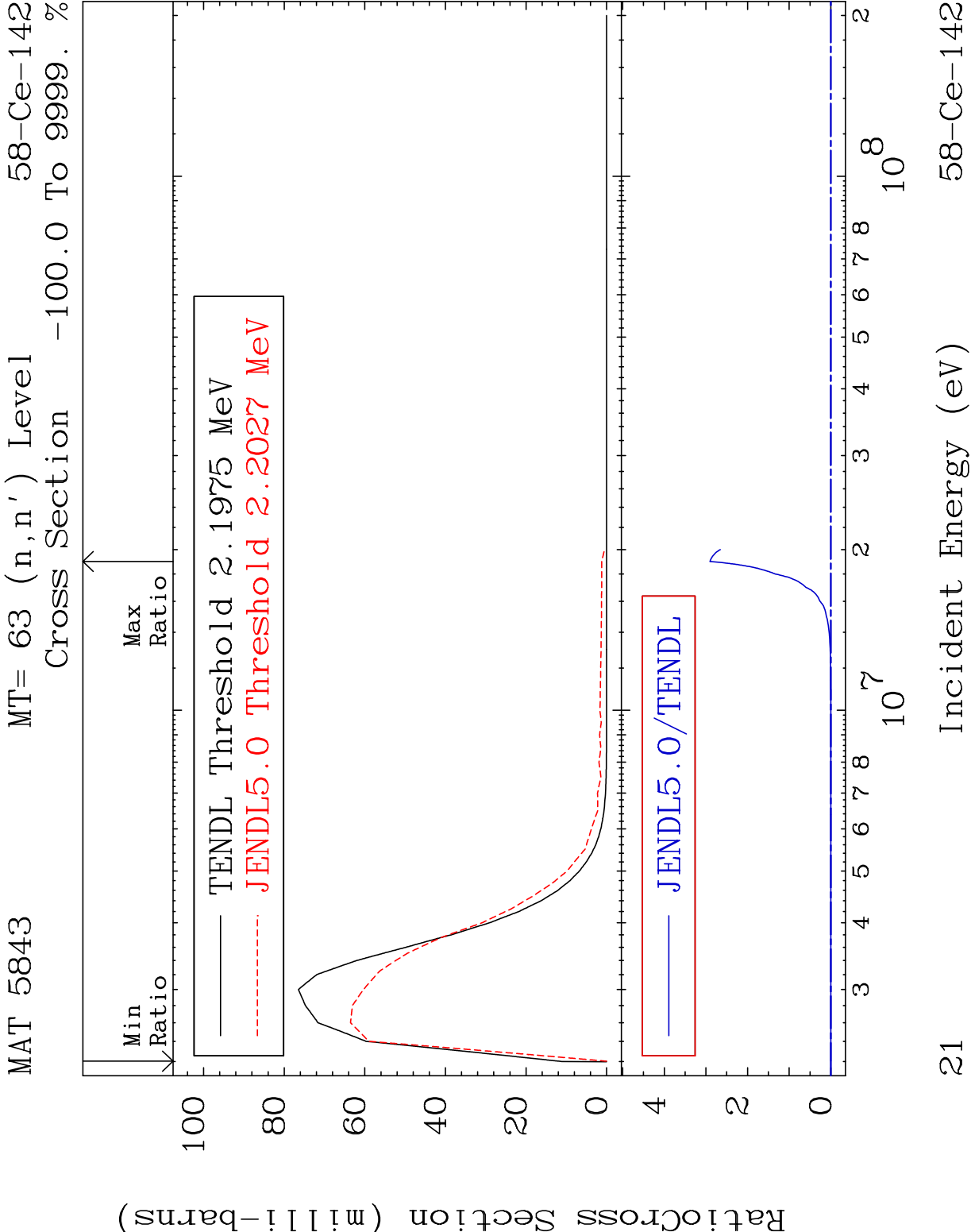


18 Incident Energy (eV) 58-Ce-142

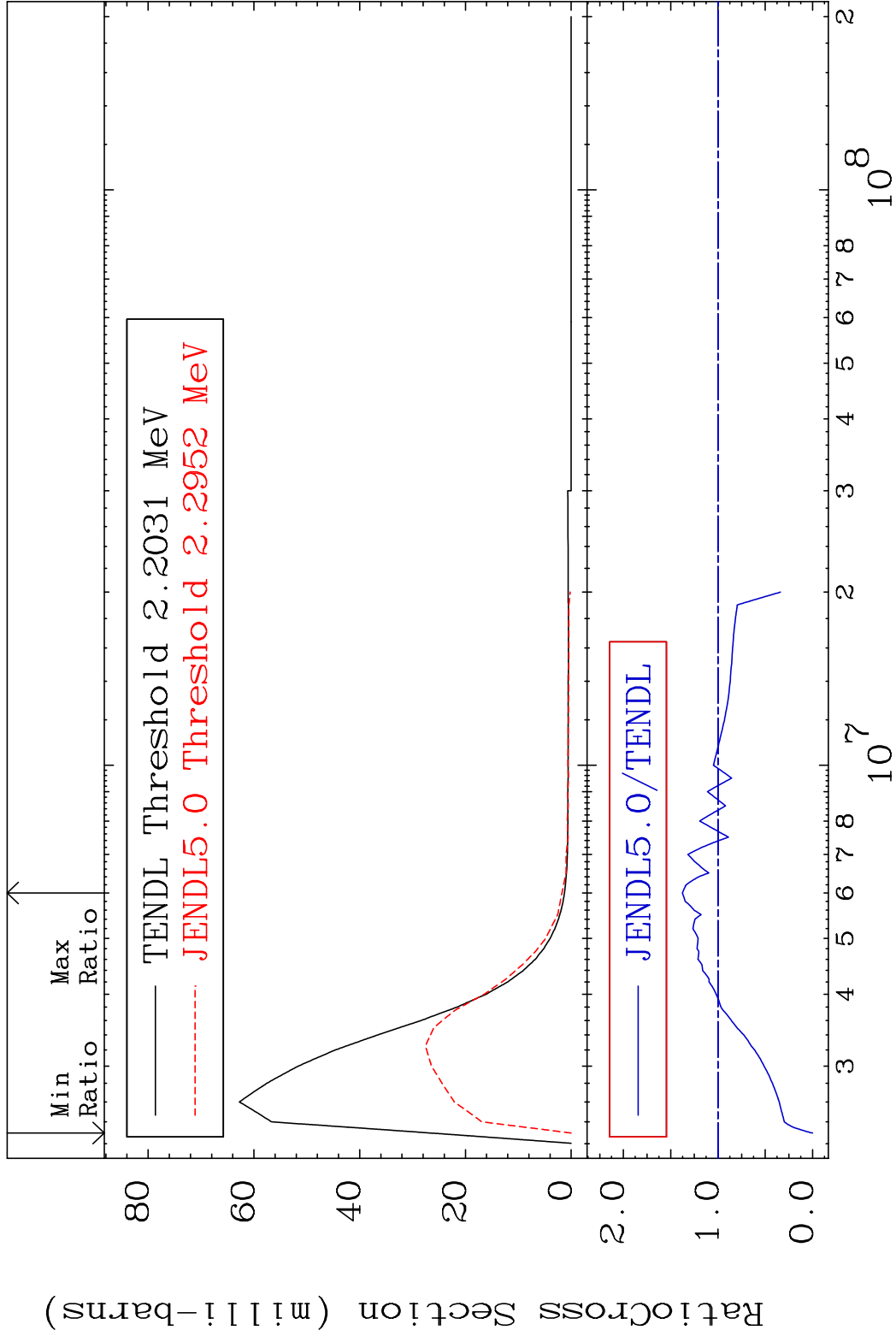


MAT 5843 MT= 62 (n,n') Level 58-Ce-142
Cross Section -100.0 To 632.5 %

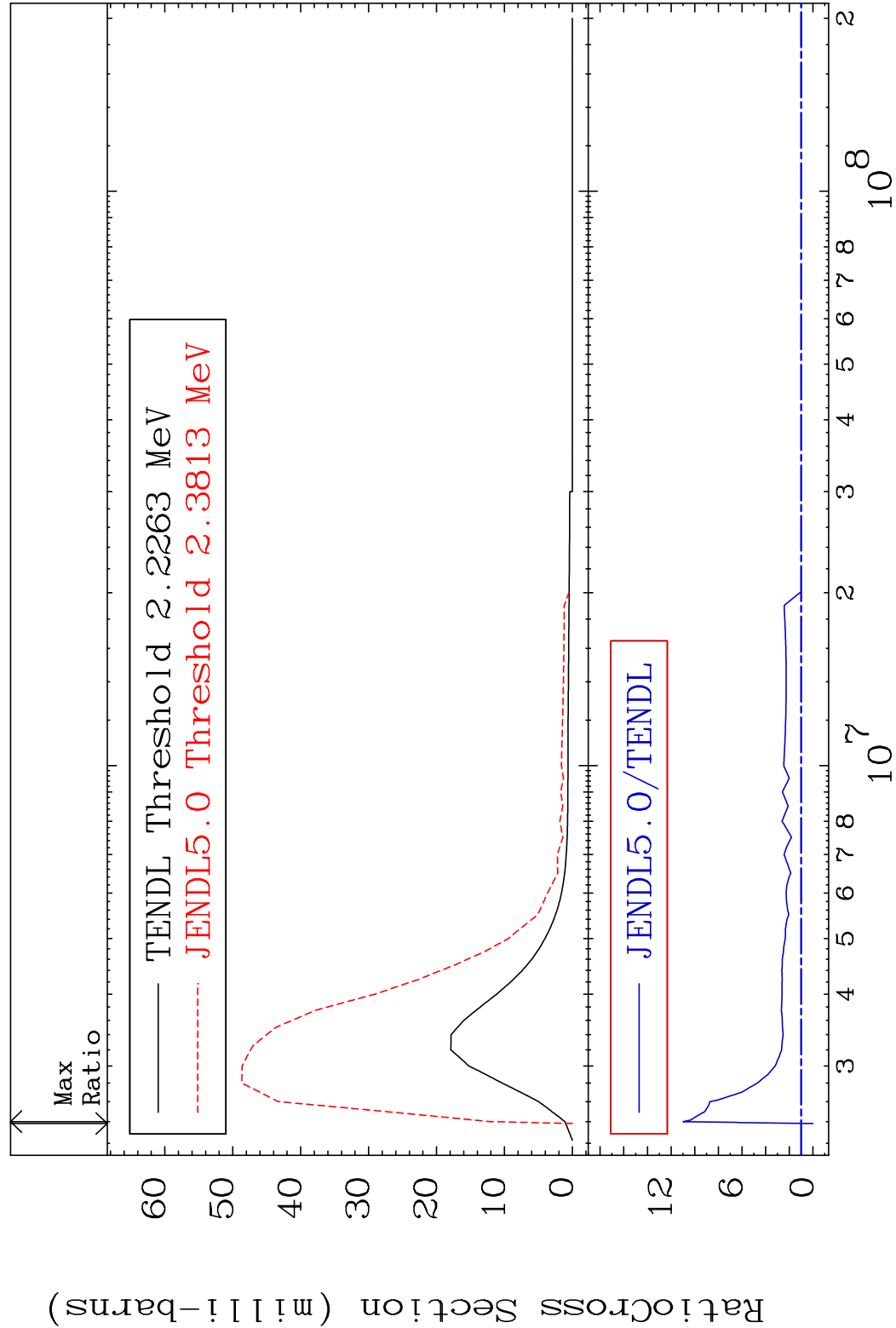




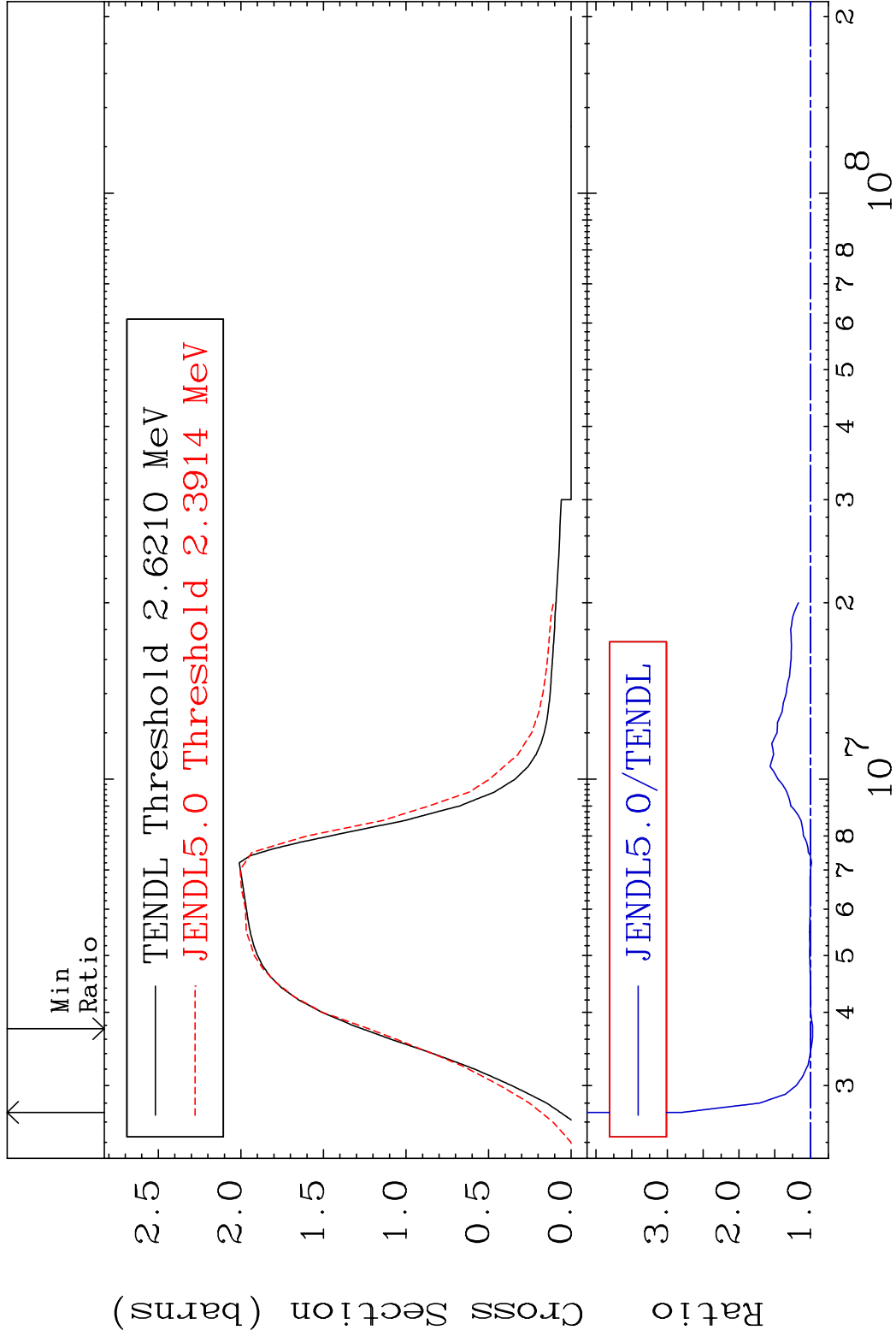
MAT 5843 MT= 64 (n,n') Level 58-Ce-142
Cross Section -100.0 To 37.66 %

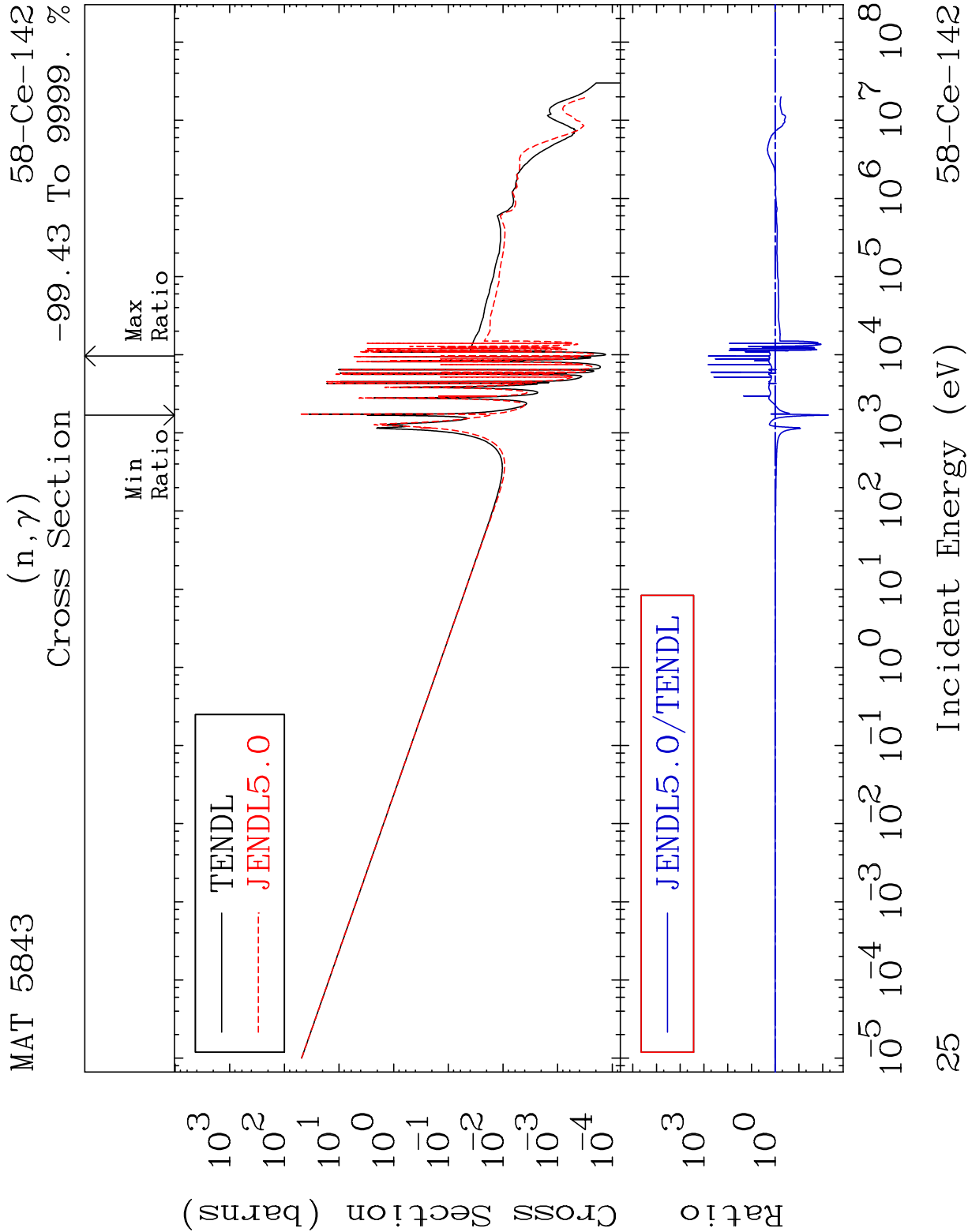


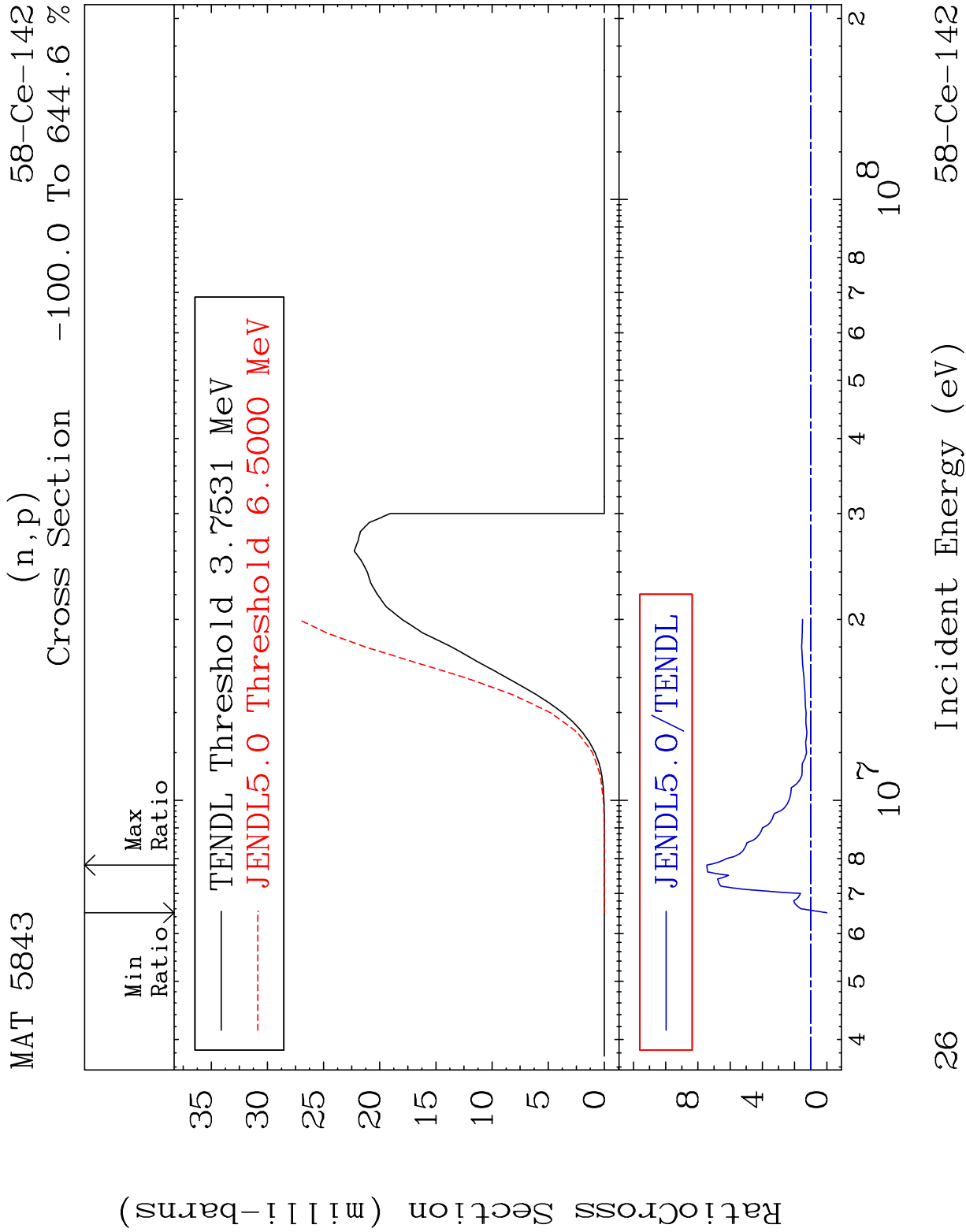
MAT 5843 MT= 65 (n,n') Level 58-Ce-142
 Cross Section -100.0 To 997.6 %

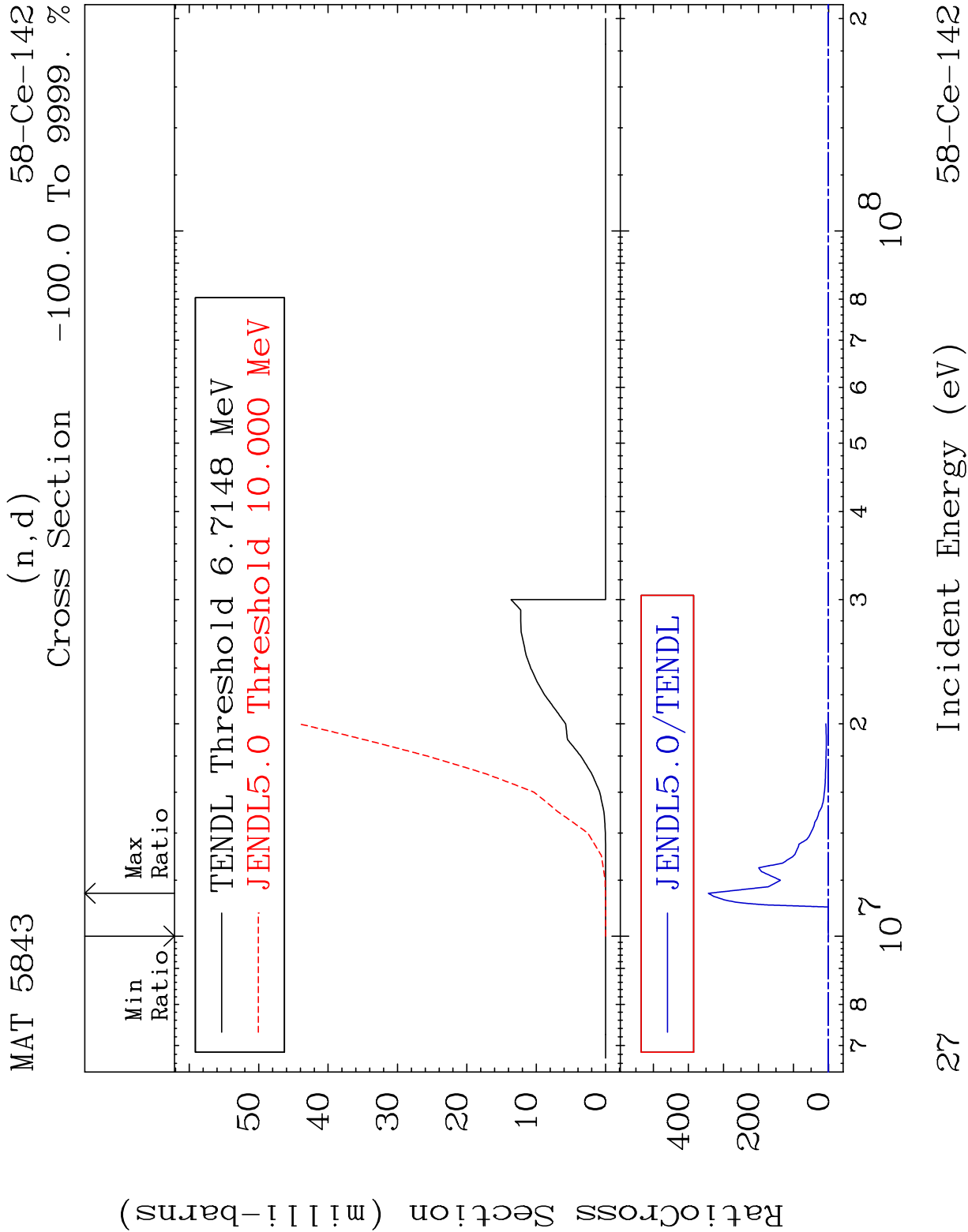


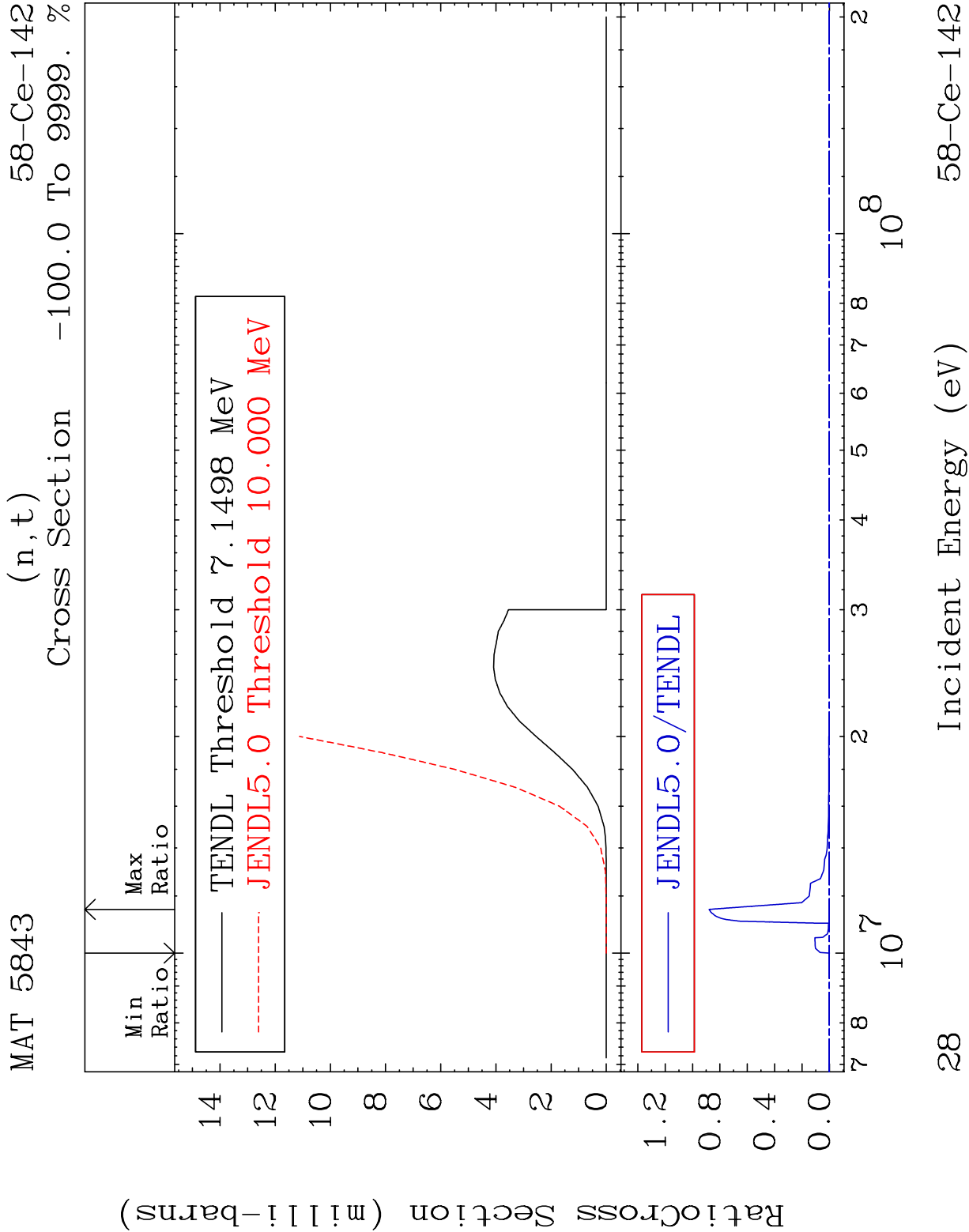
MAT 5843 (n,n') Continuum 58-Ce-142
Cross Section -3.030 To 179.1 %

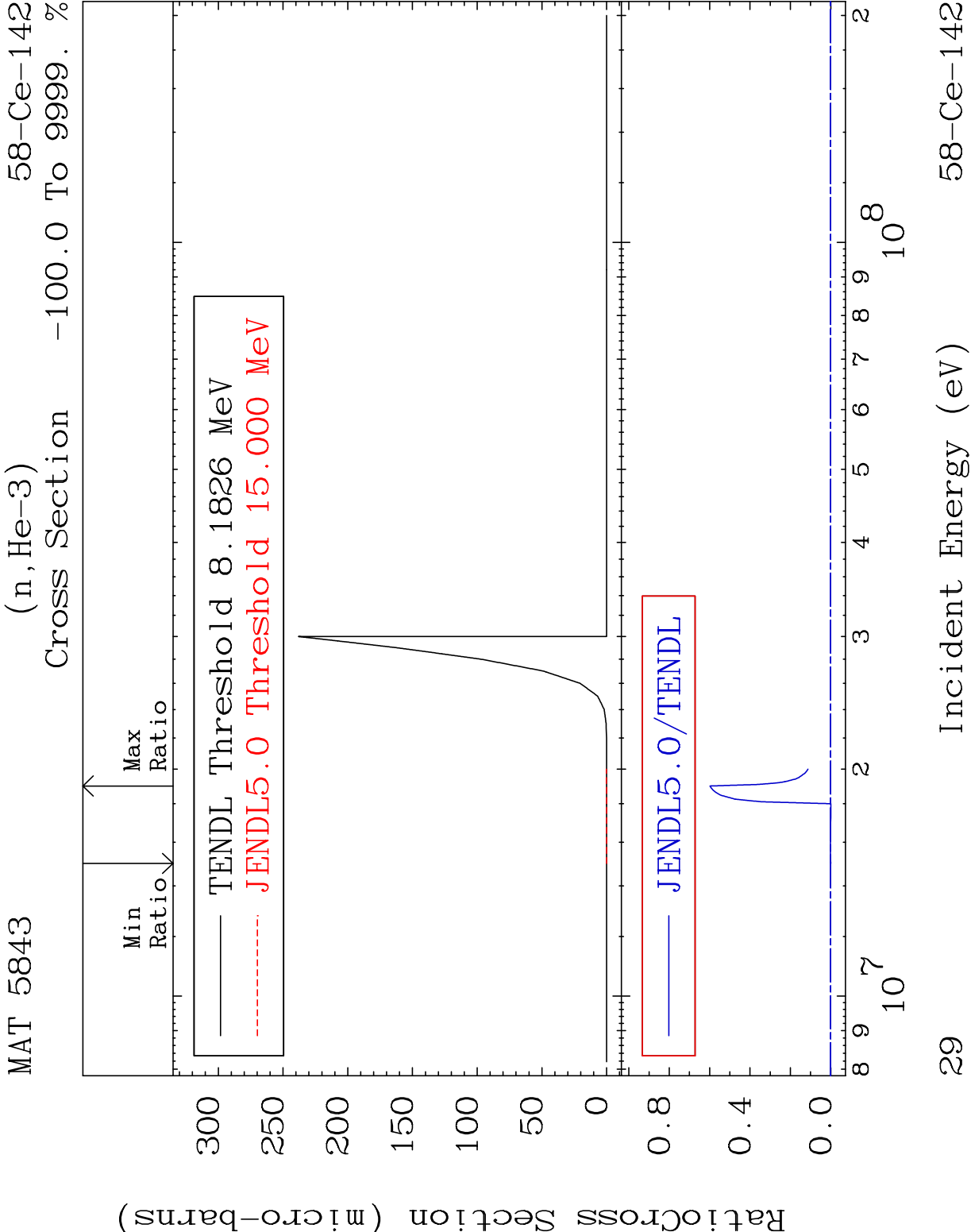


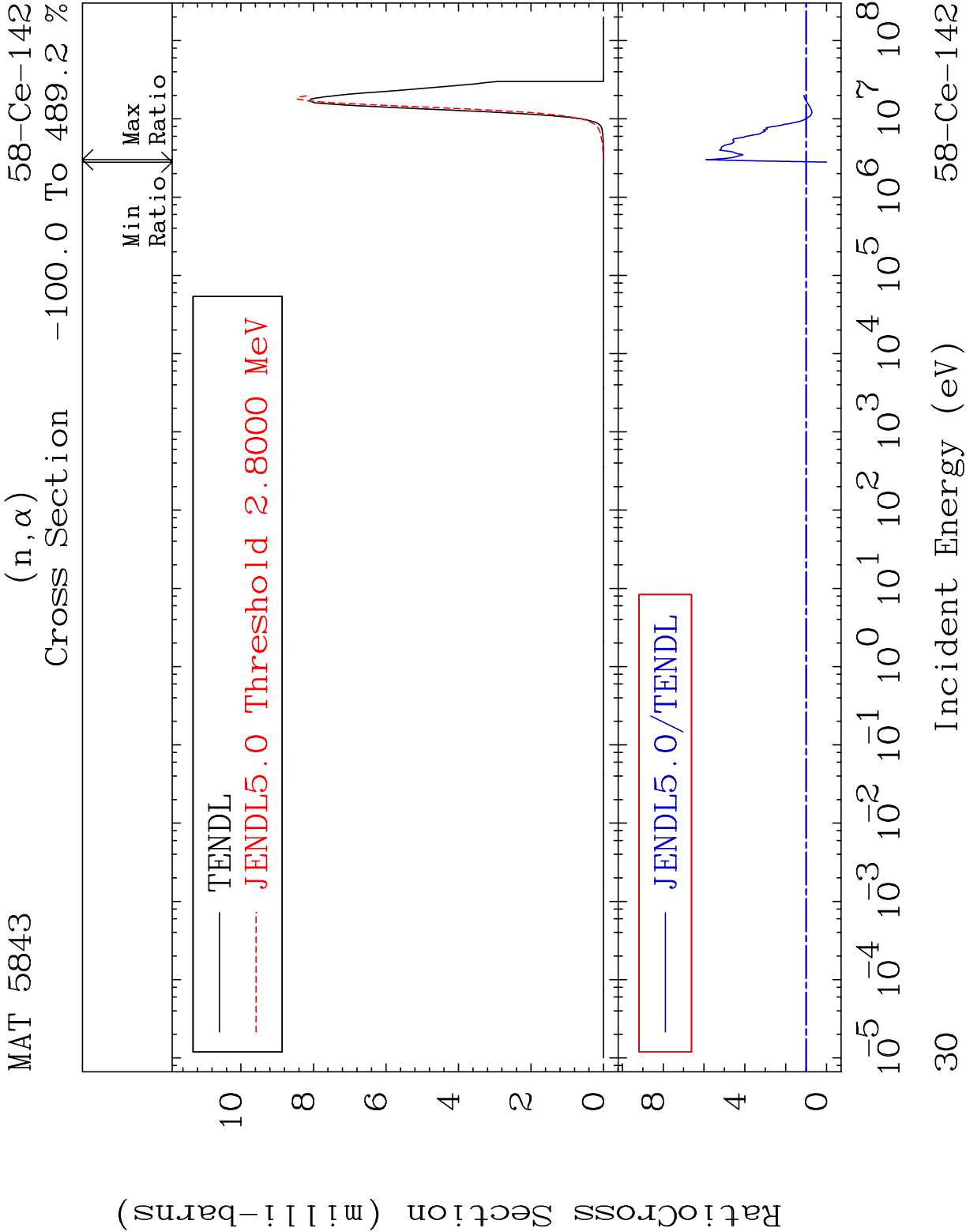












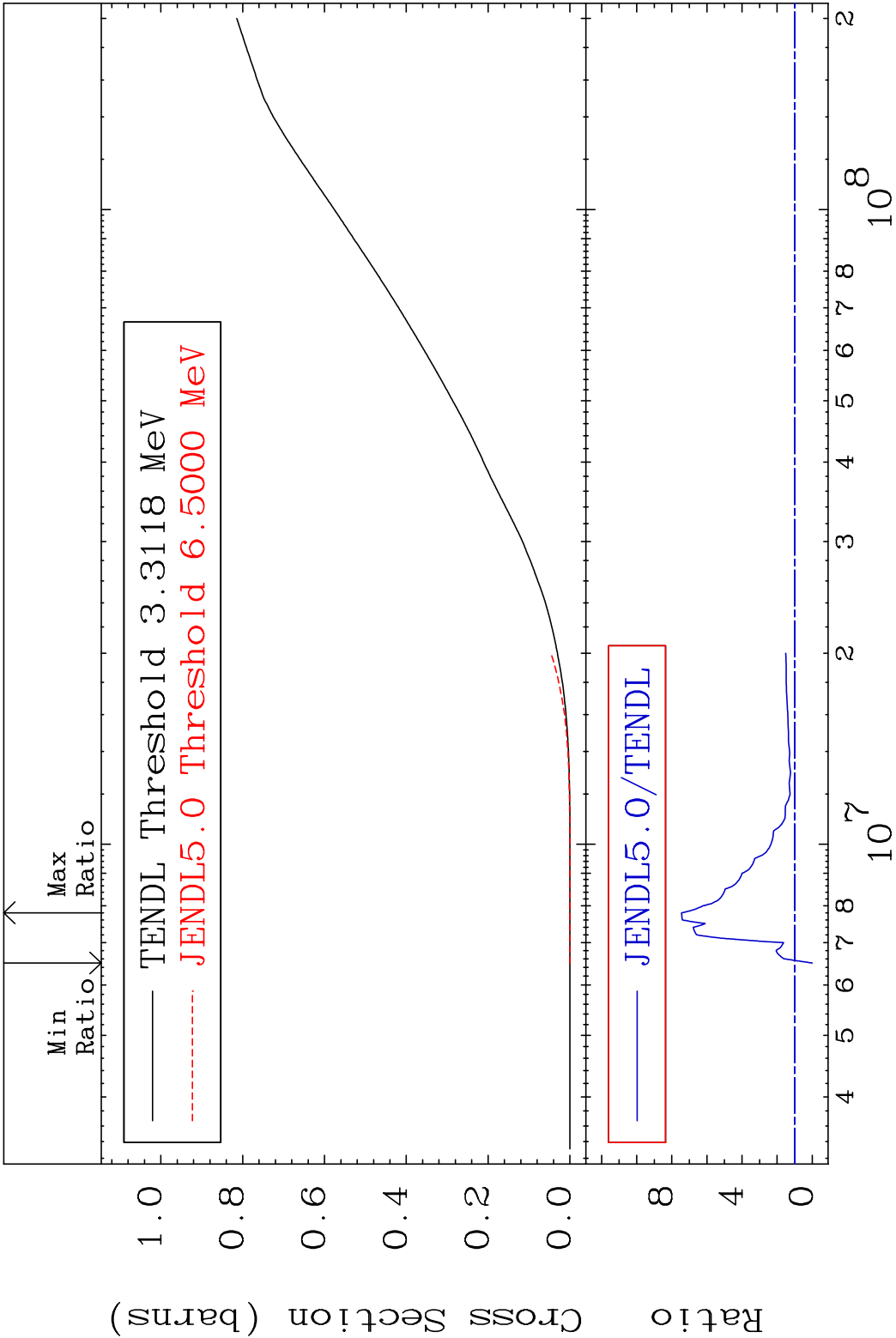
MAT 5843

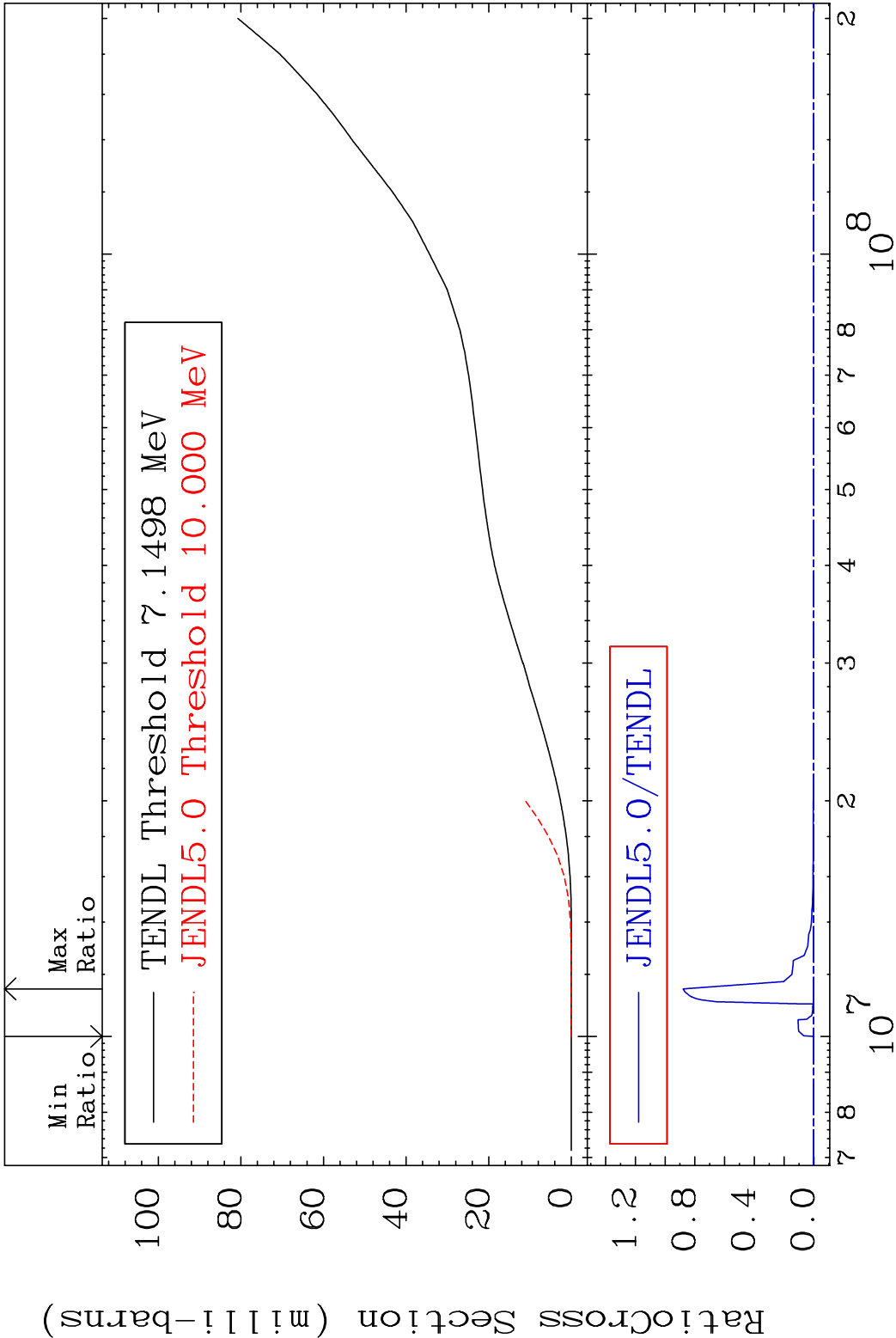
Hydrogen Production

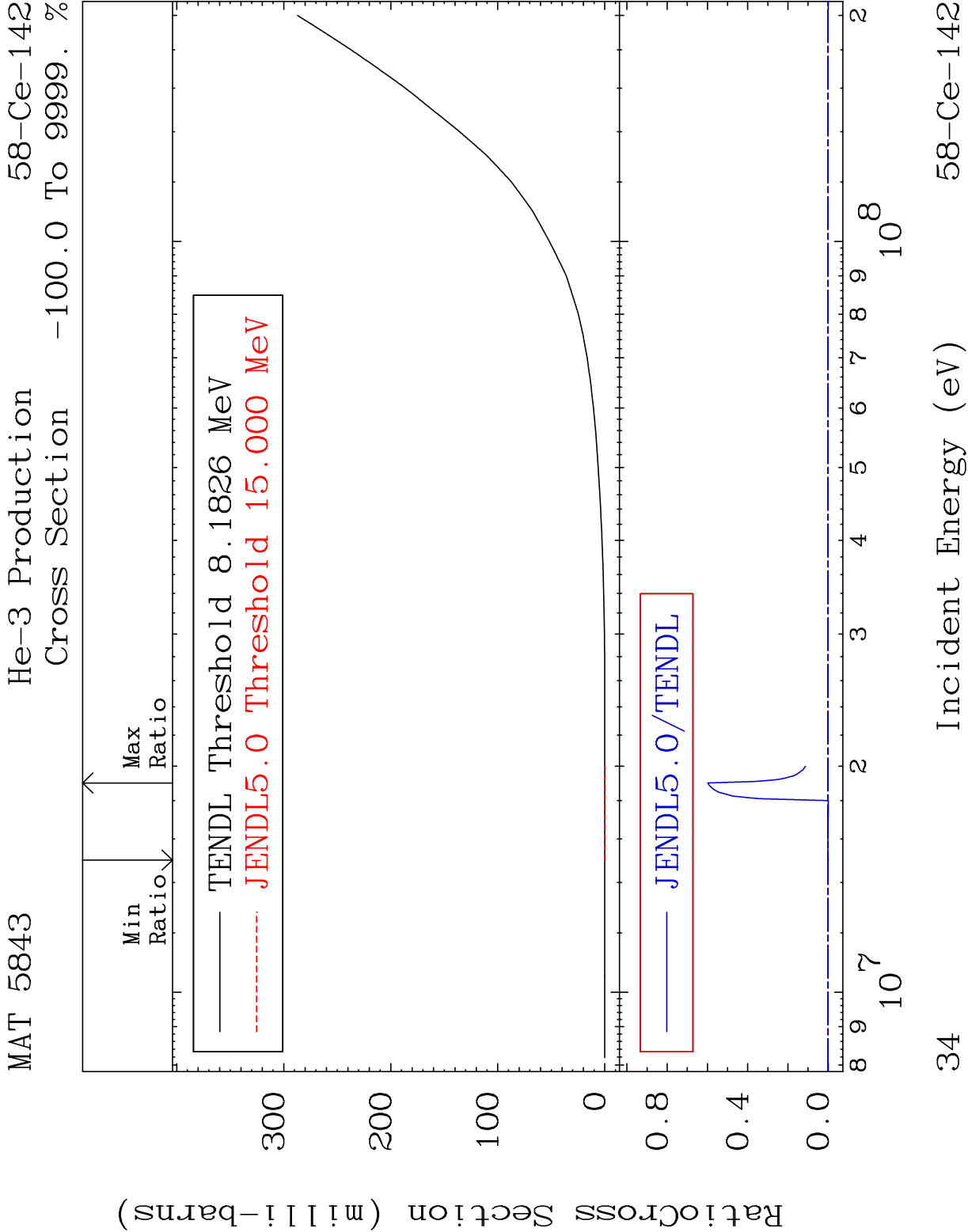
58-Ce-142

Cross Section

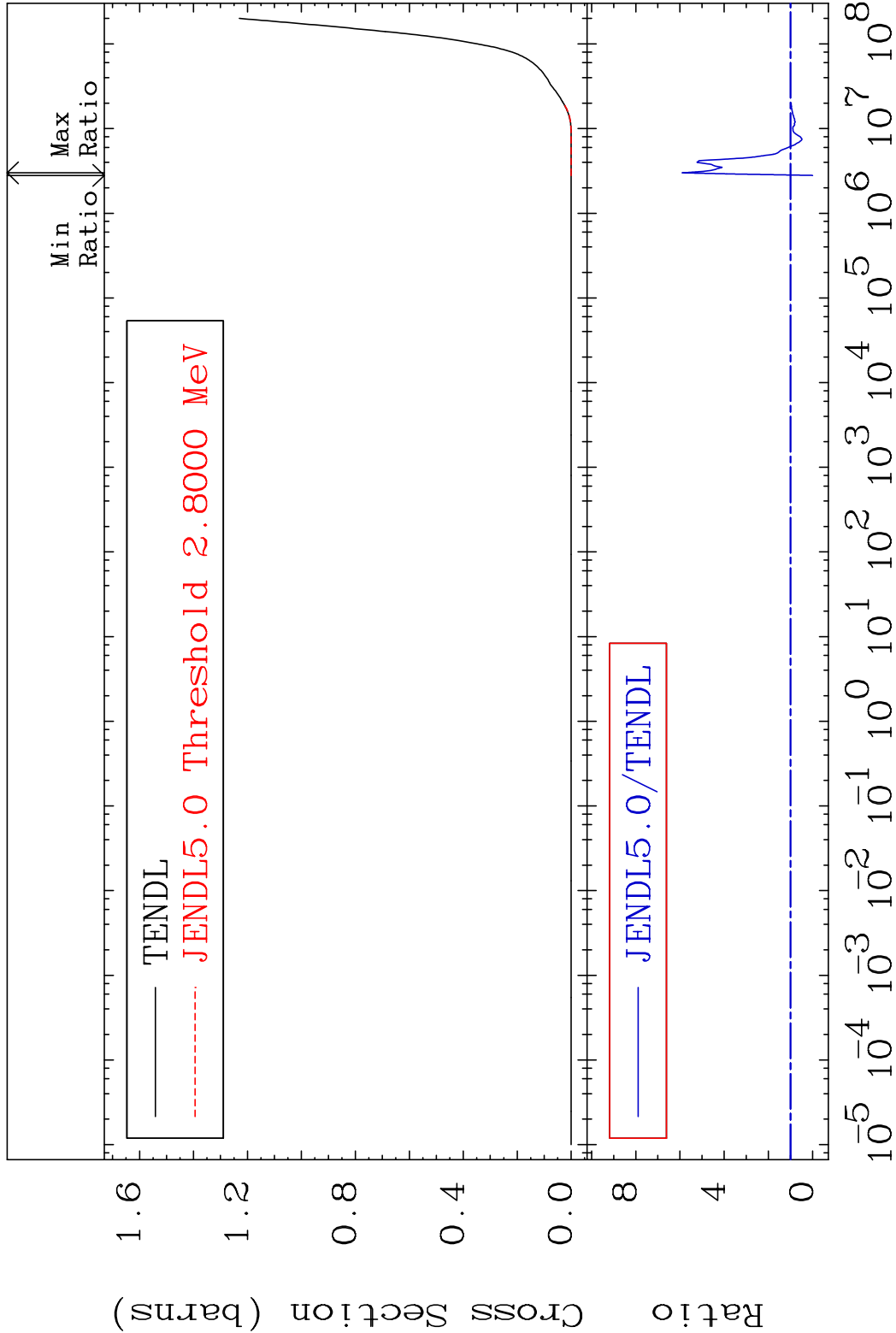
-100.0 To 644.6 %





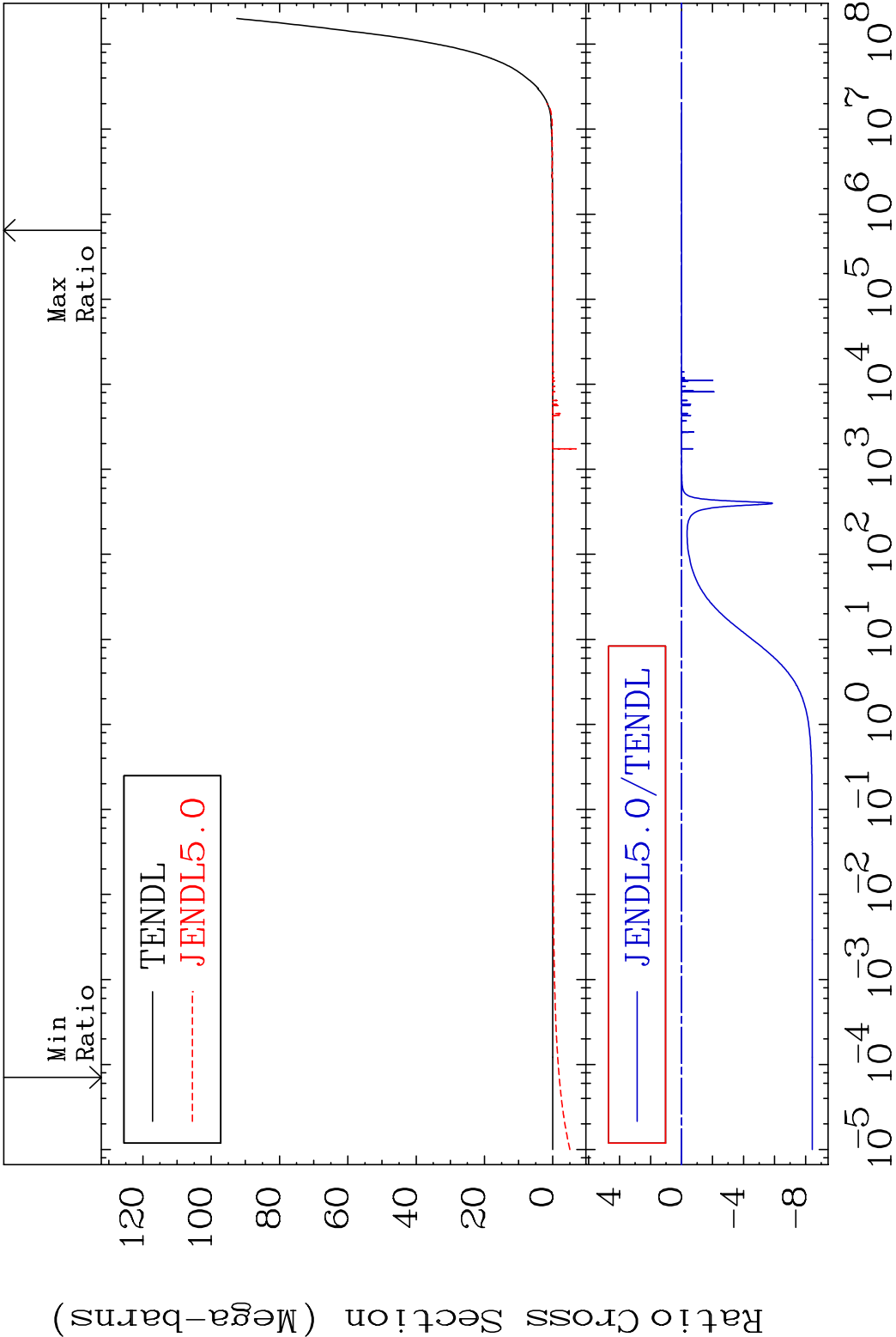


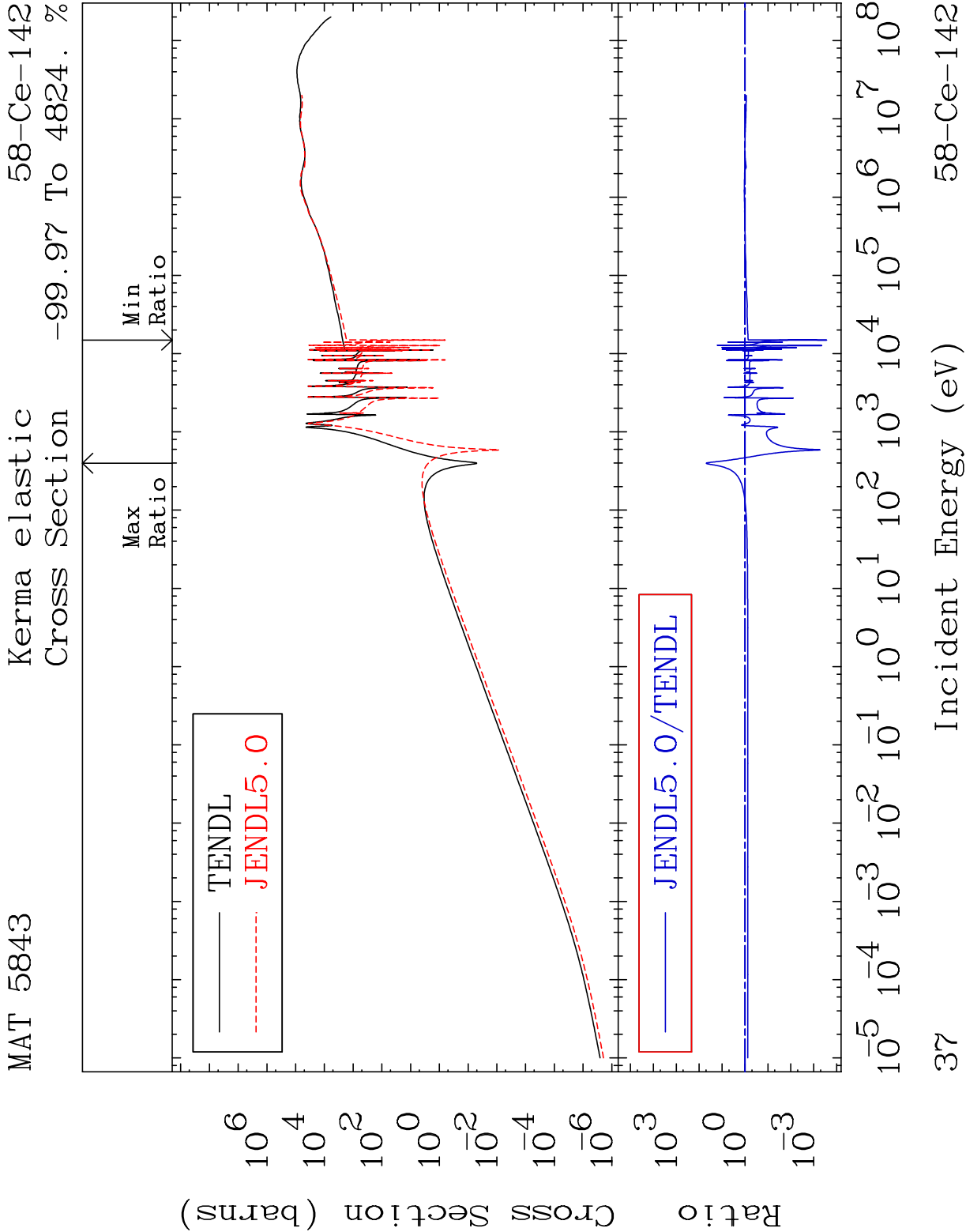
MAT 5843 He-4 Production 58-Ce-142
Cross Section -100.0 To 489.2 %



35 Incident Energy (eV) 58-Ce-142

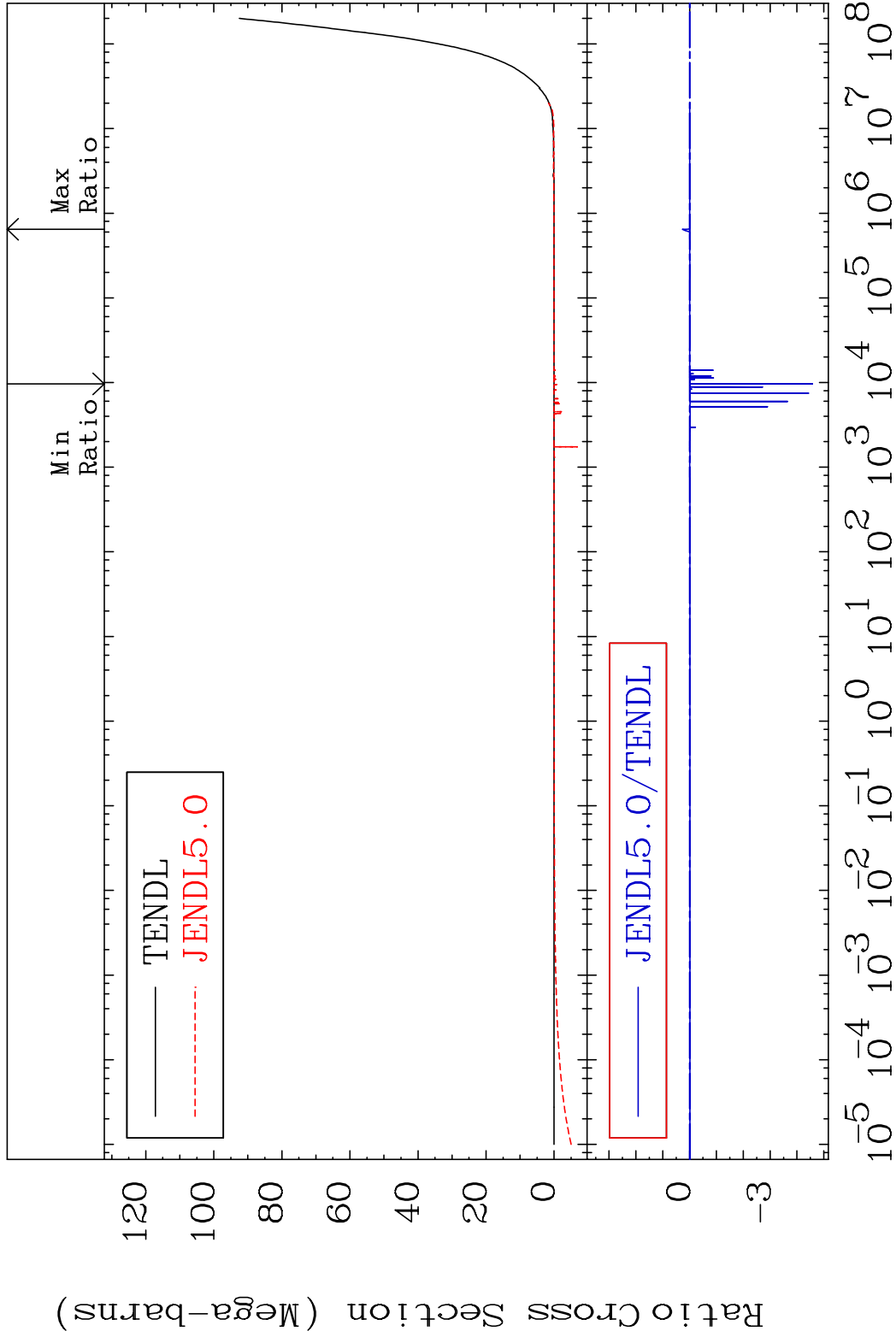
MAT 5843 Kerma total (eV-barns) 58-Ce-142
Cross Section -9999. To 133.1 %





MAT 5843 Kerma non-elastic (all but mt2) 58-Ce-142

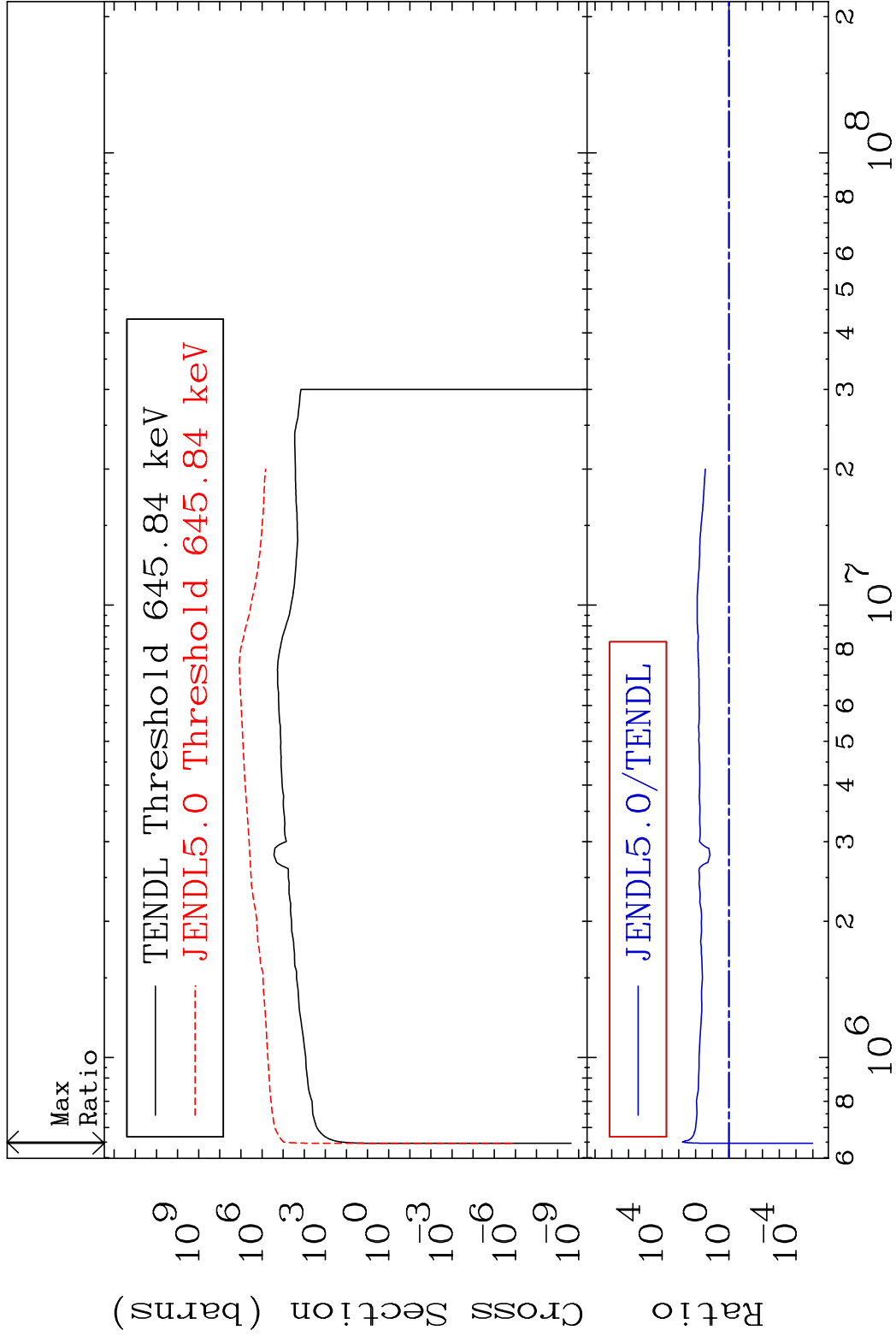
Cross Section -9999. To 9999. %



38

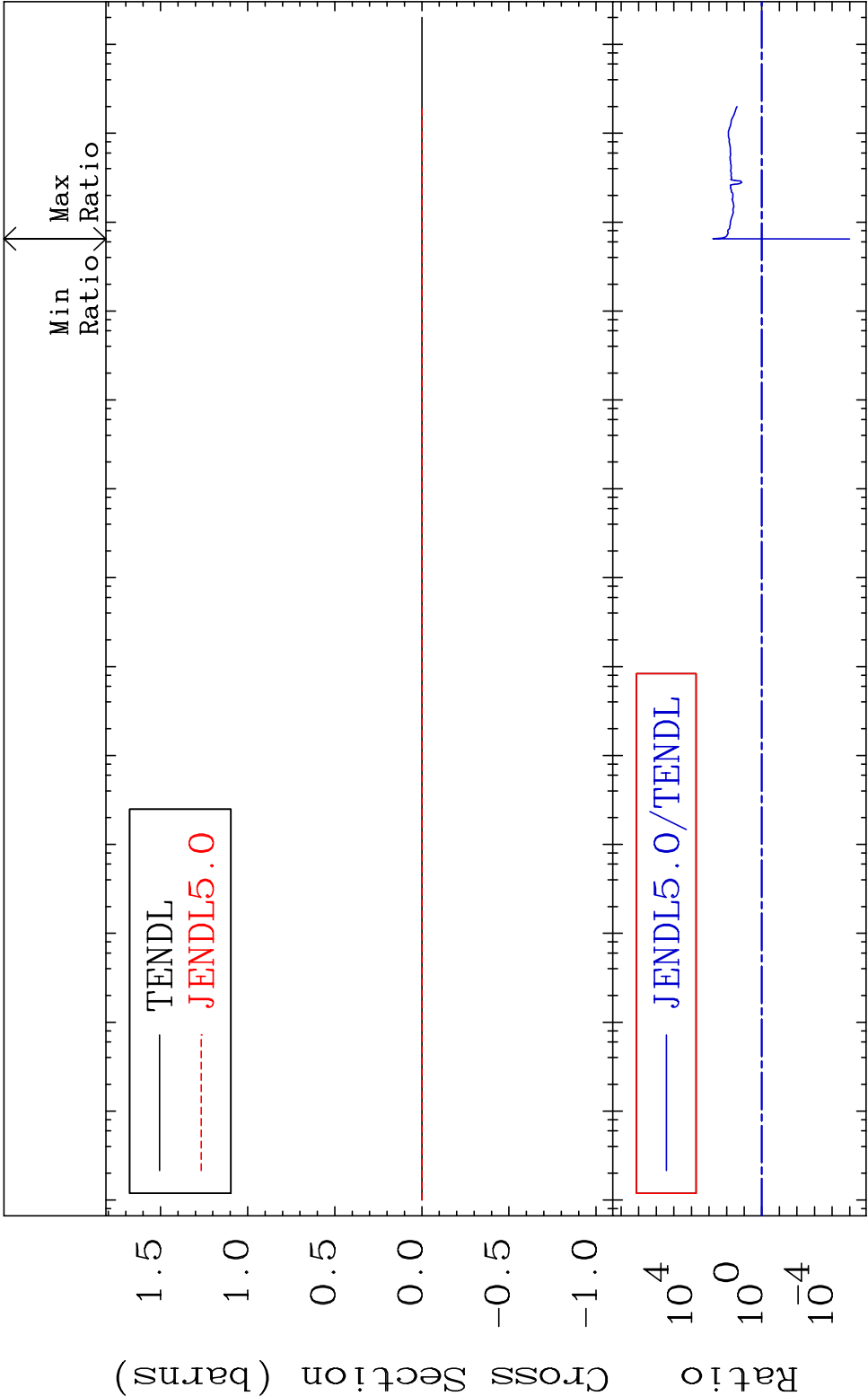
Incident Energy (eV)

58-Ce-142

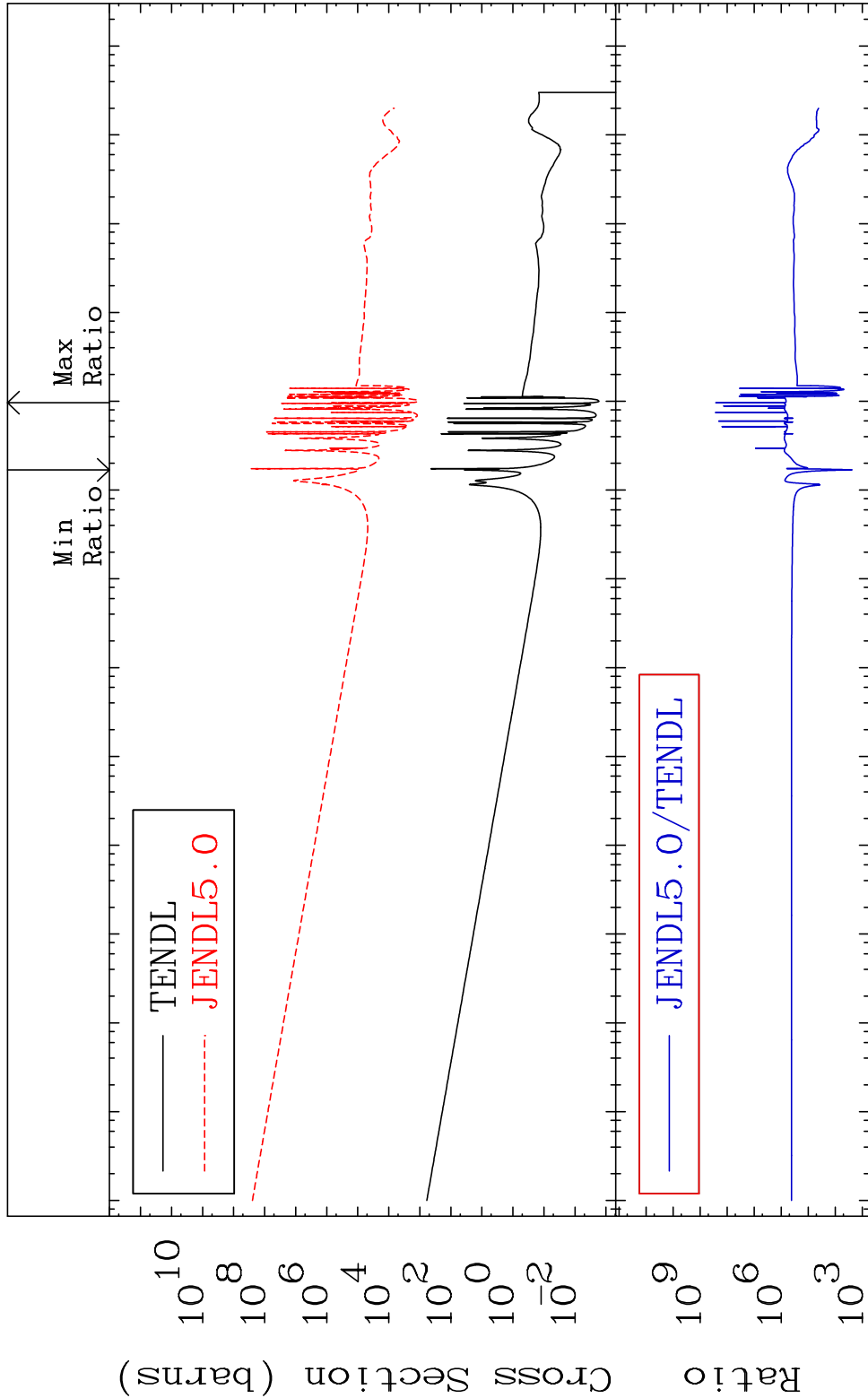


MAT 5843Kerma fission (mt18 or mt19-20-21-38)58-Ce-142

Cross Section -100.0 To 9999. %

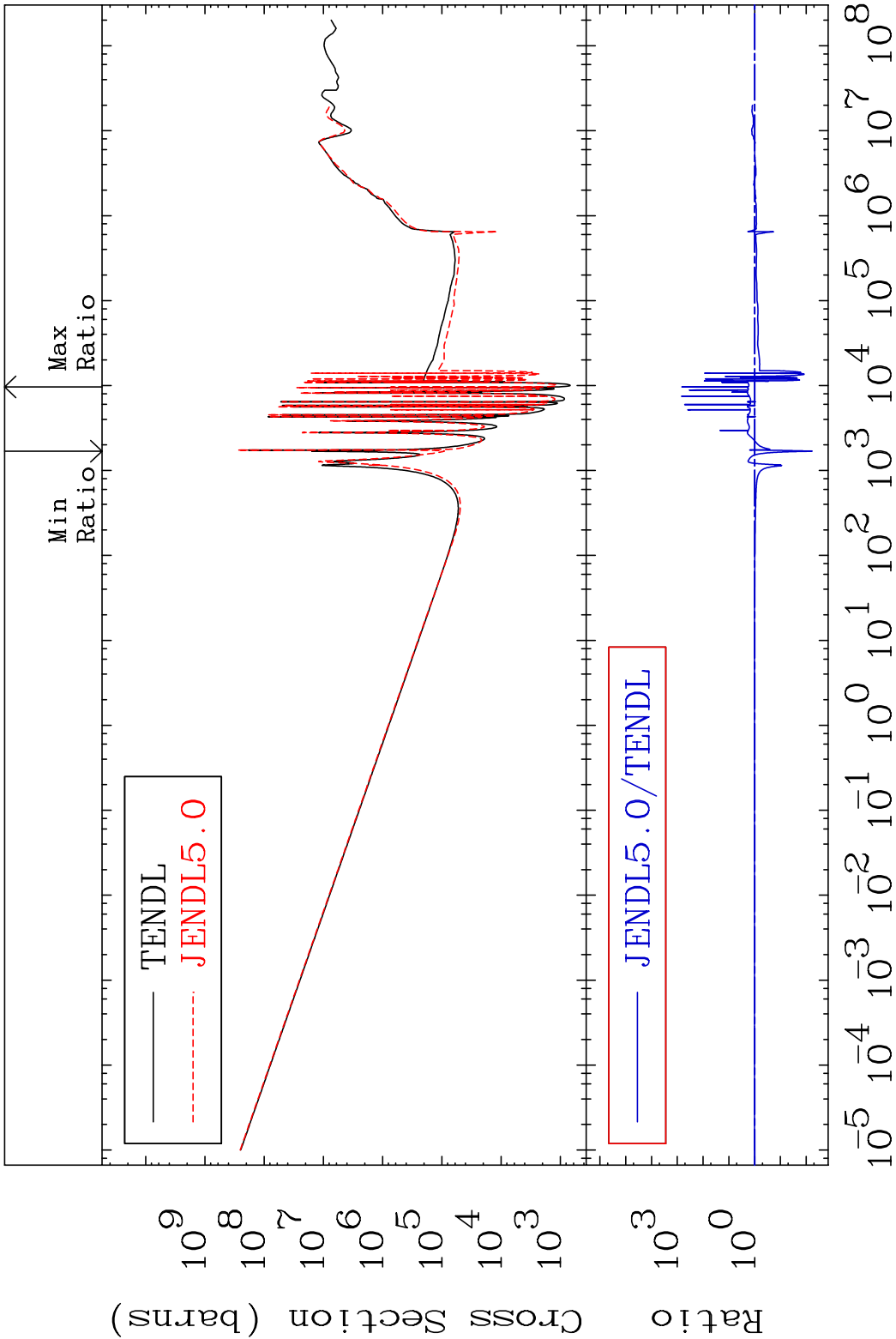


MAT 5843 Kerma capture (mt102) 58-Ce-142
Cross Section 9999. To 9999. %



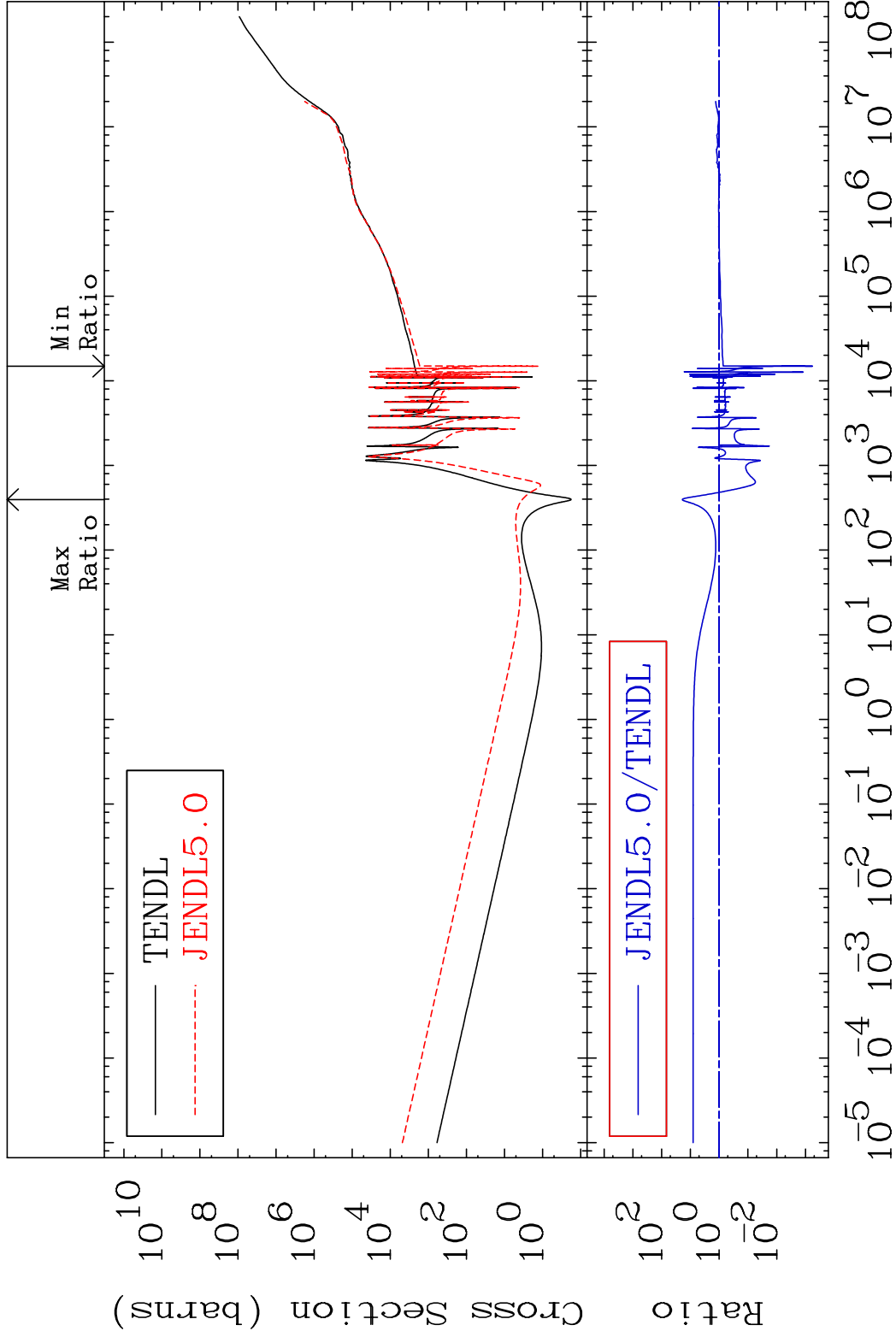
41 Incident Energy (eV) 58-Ce-142

MAT 5843 Total photon (eV-barns) 58-Ce-142
Cross Section -99.42 To 9999. %



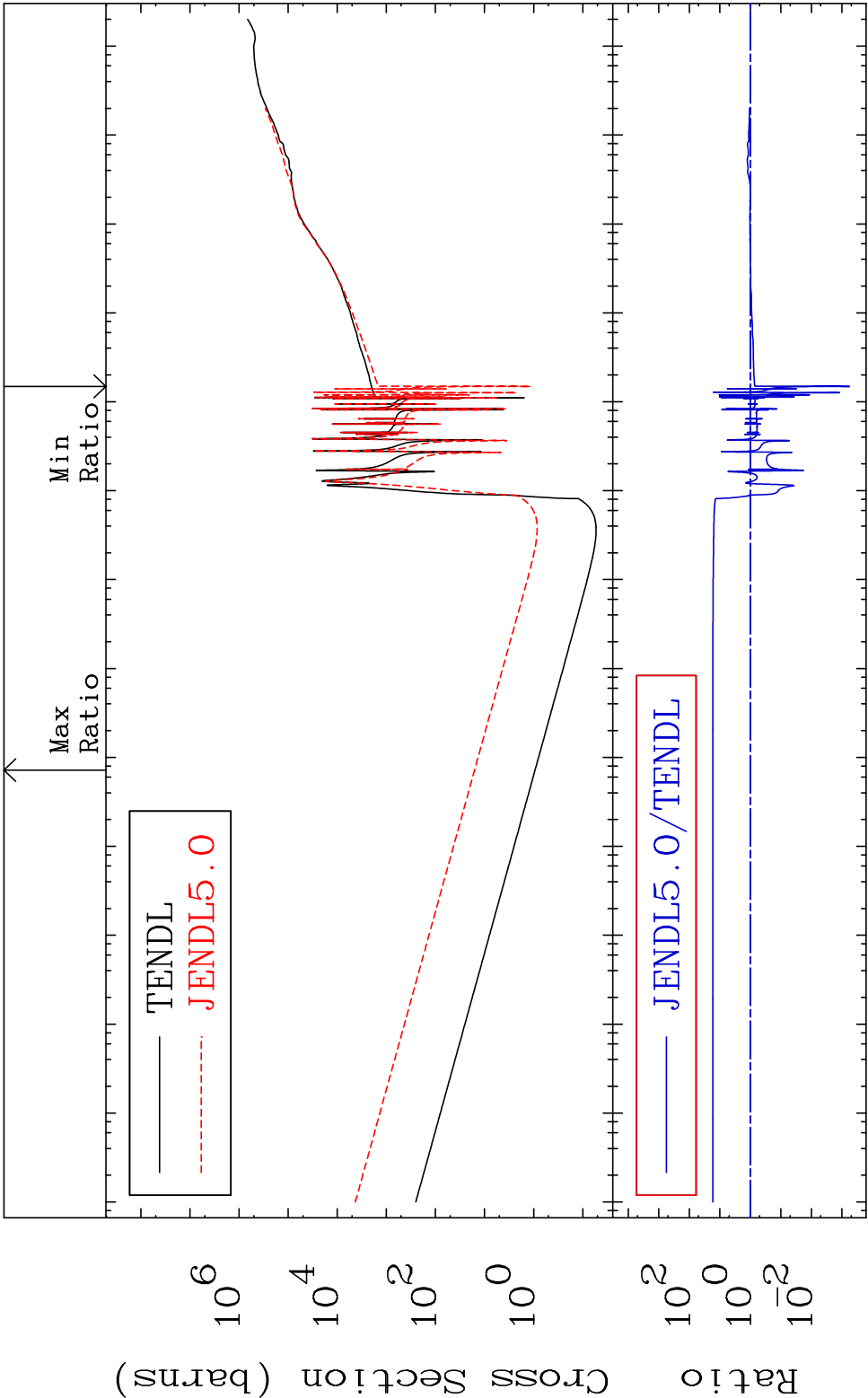
42 Incident Energy (eV) 58-Ce-142

MAT 5843 Total kinematic kerma (high limit) 58-Ce-142
Cross Section -99.94 To 1815. %



43 Incident Energy (eV) 58-Ce-142

MAT 5843 Dpa total (eV-barns) 58-Ce-142
Cross Section -99.94 To 1607. %



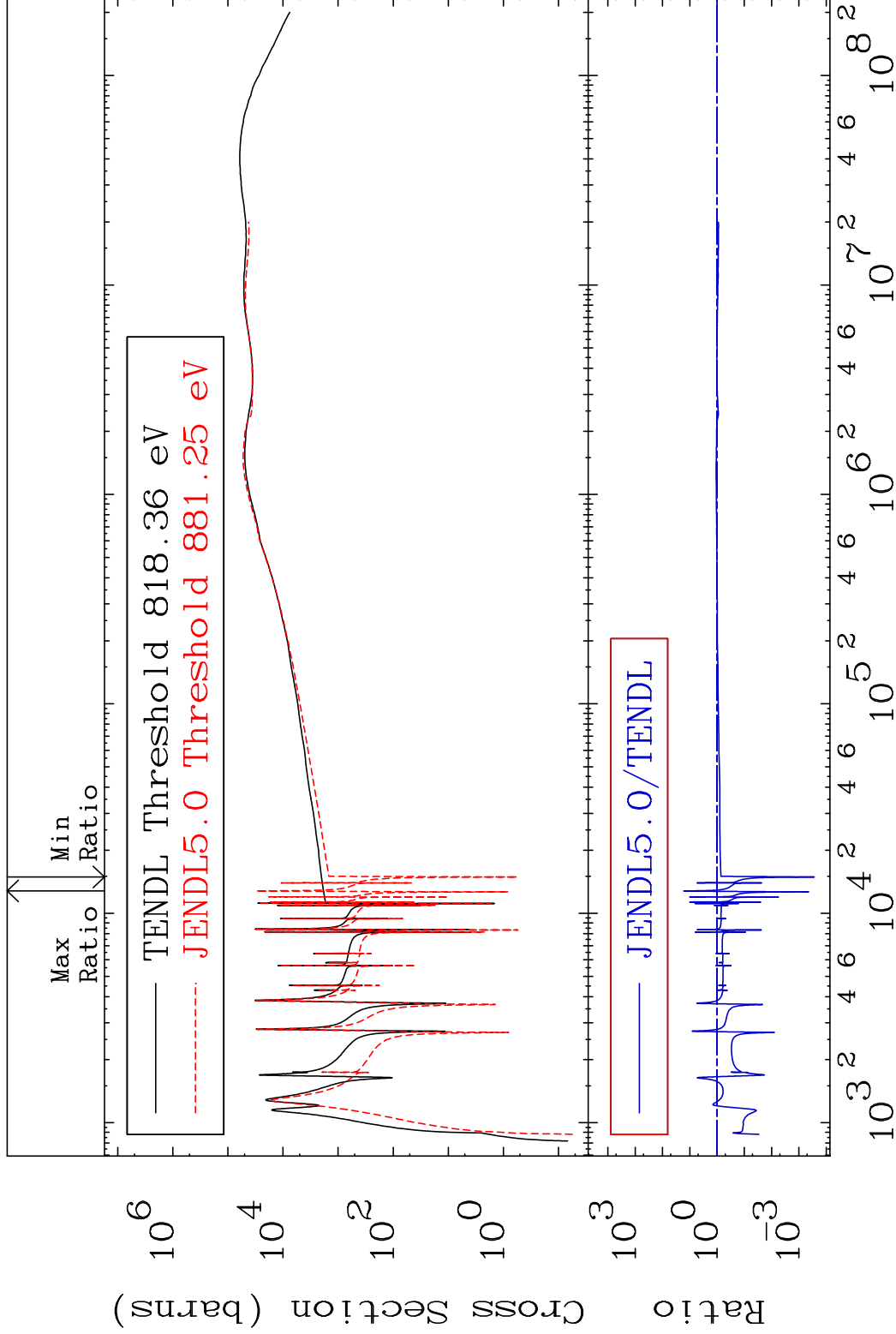
44 Incident Energy (eV) 58-Ce-142

MAT 5843

Dpa elastic (mt2)

58-Ce-142

Cross Section -99.97 To 1576. %

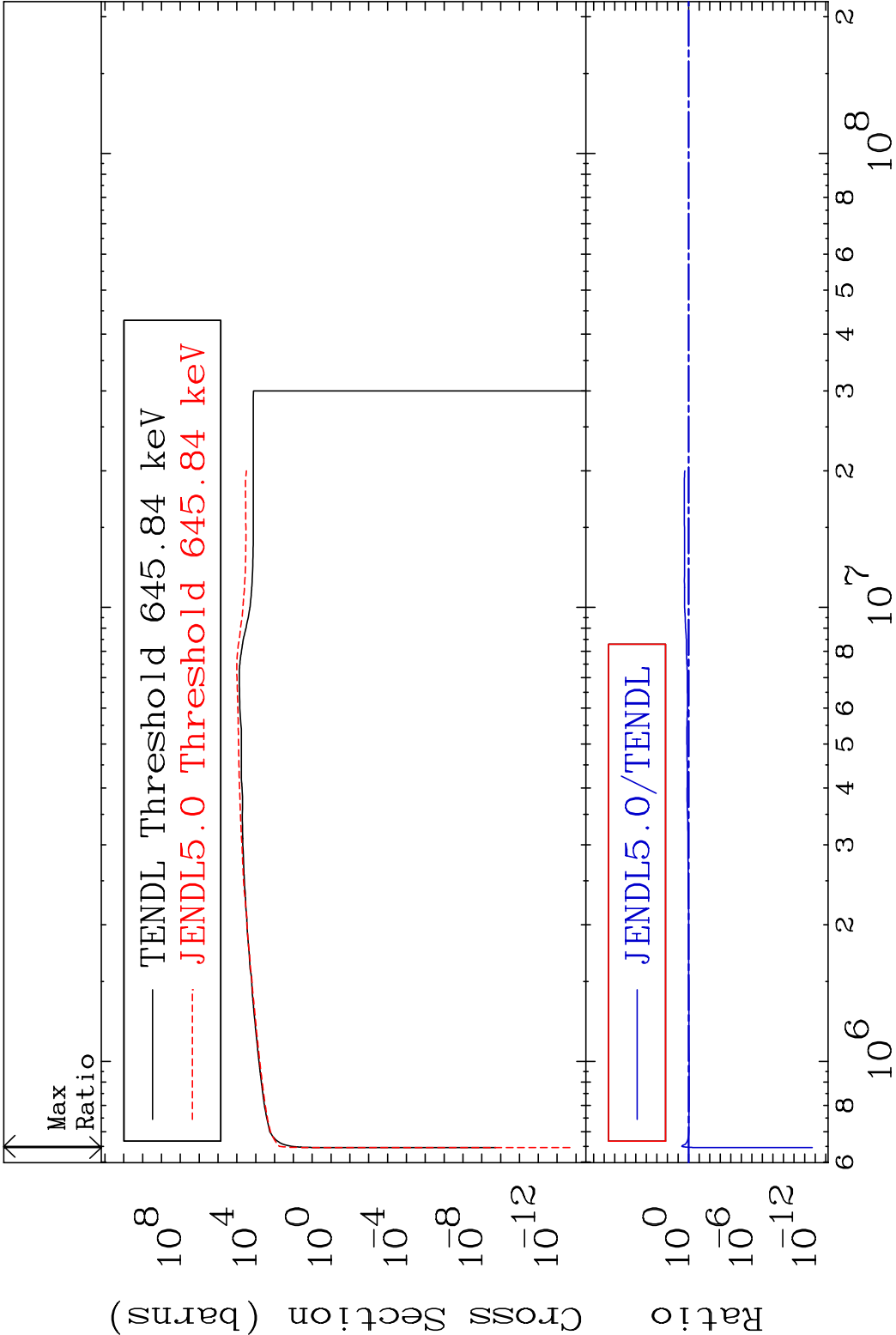


45

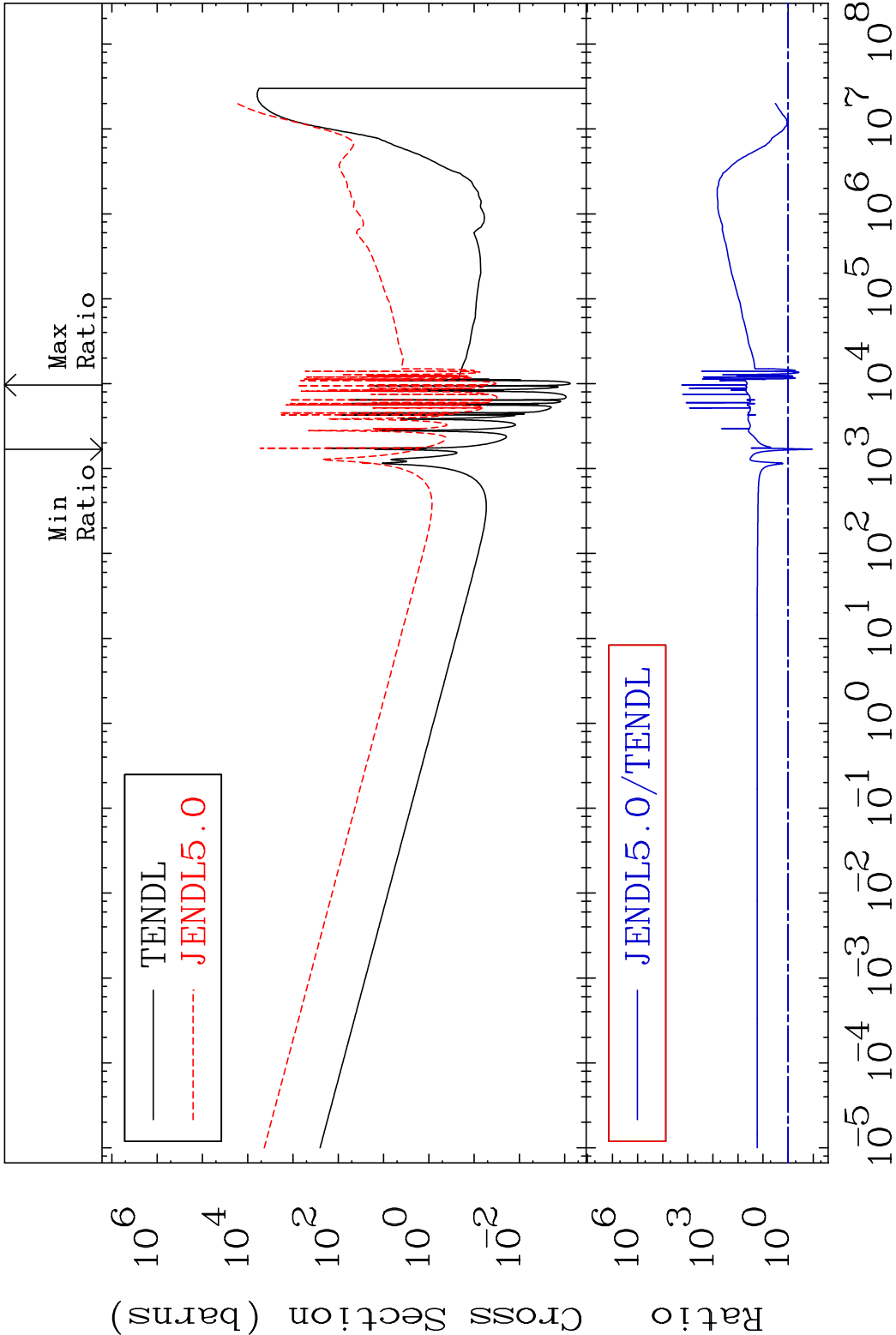
Incident Energy (eV)

58-Ce-142

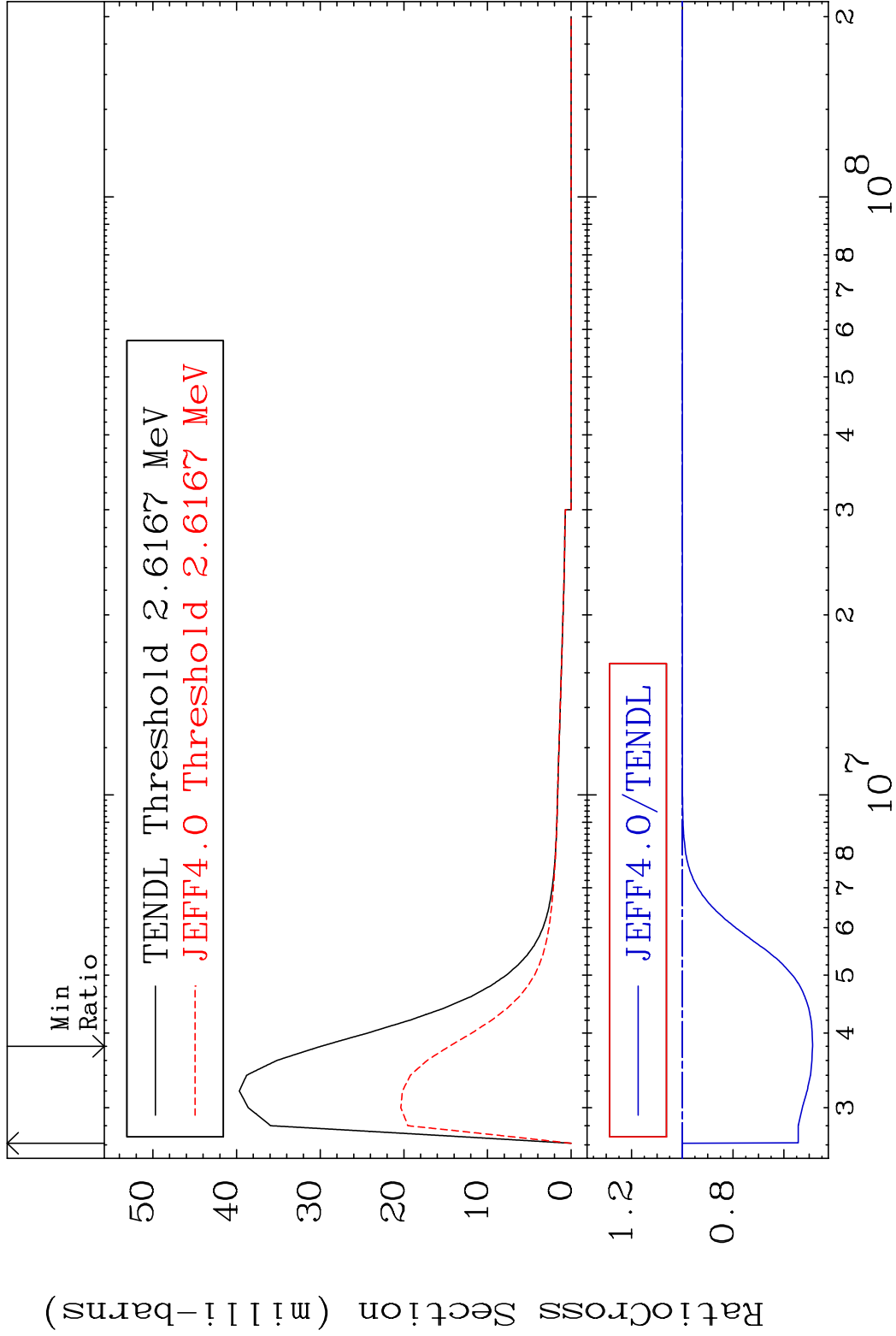
MAT 5843 Dpa inelastic (mt51-91) 58-Ce-142
Cross Section -100.0 To 365.1 %

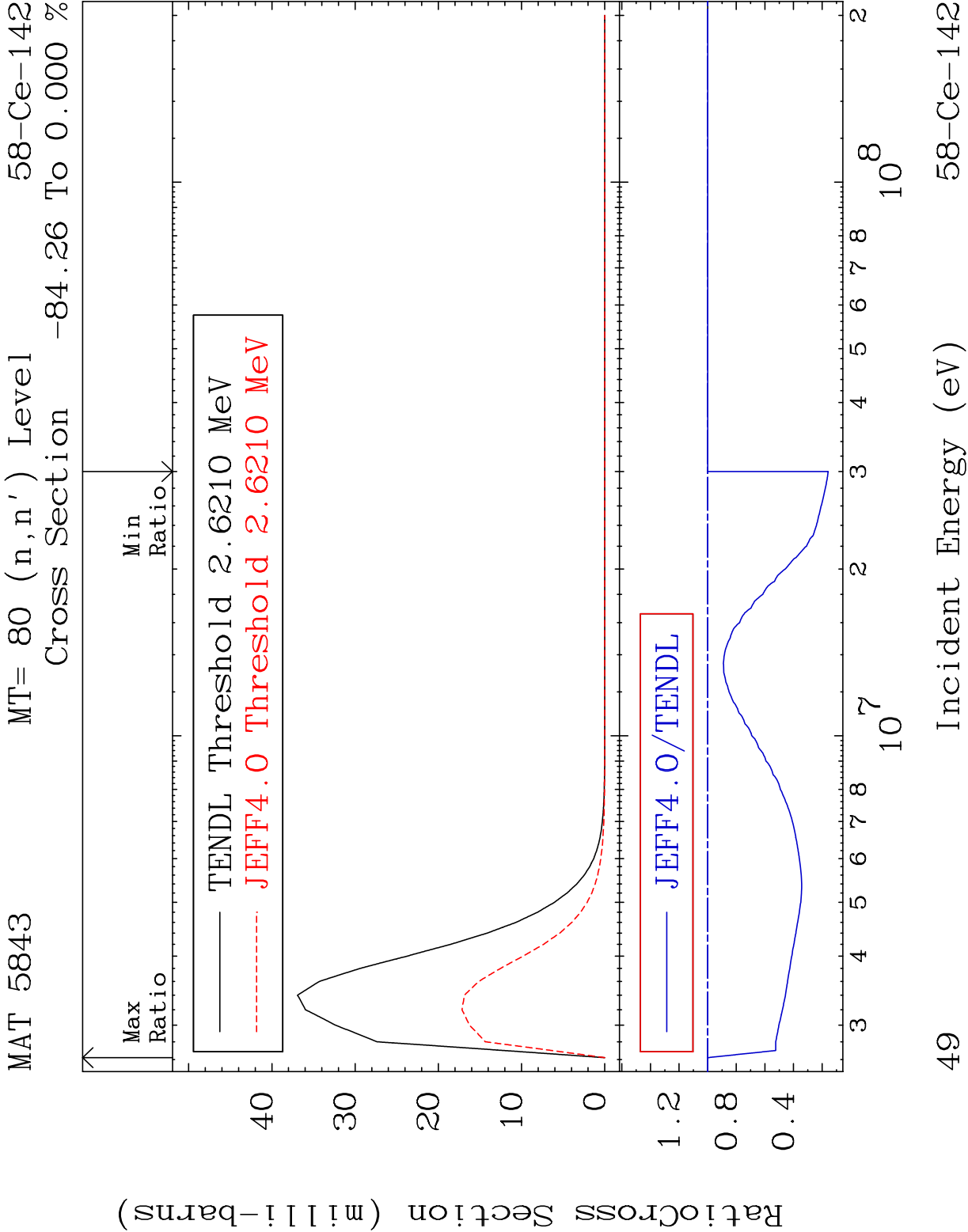


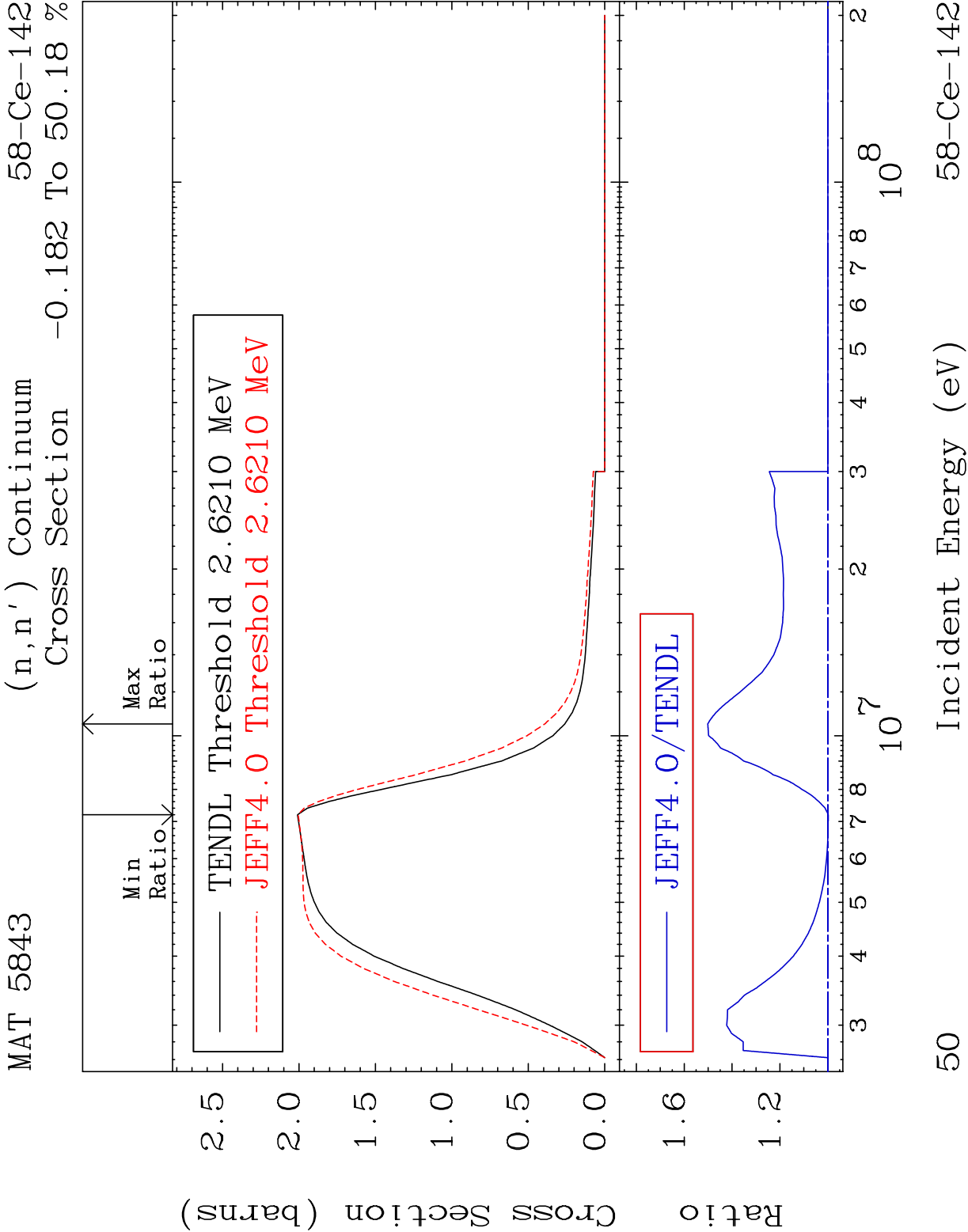
MAT 5843 Dpa disappearance (mt102 -120) 58-Ce-142
Cross Section -89.15 To 9999. %



MAT 5843 MT= 79 (n,n') Level 58-Ce-142
Cross Section -51.30 To 0.000 %





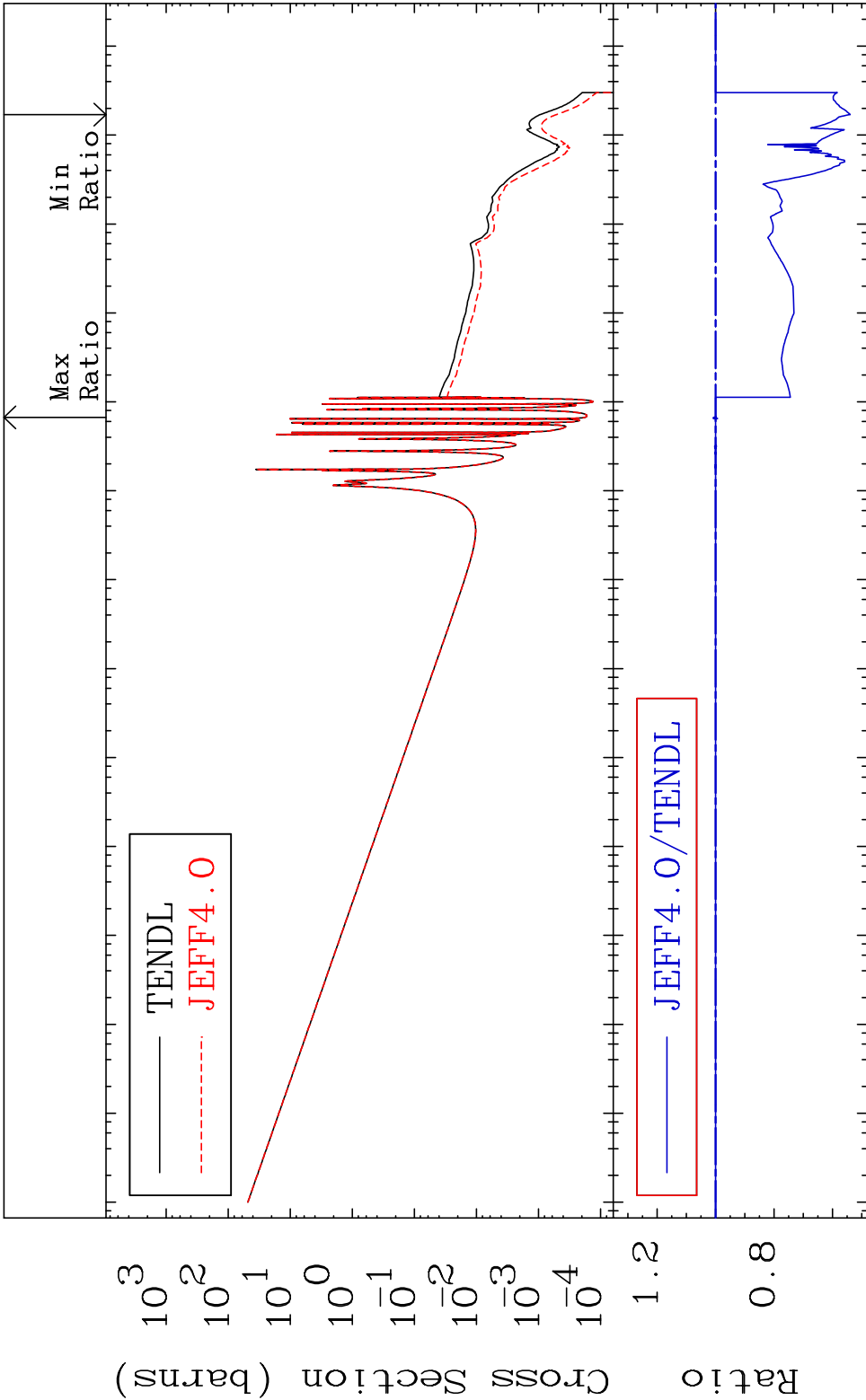


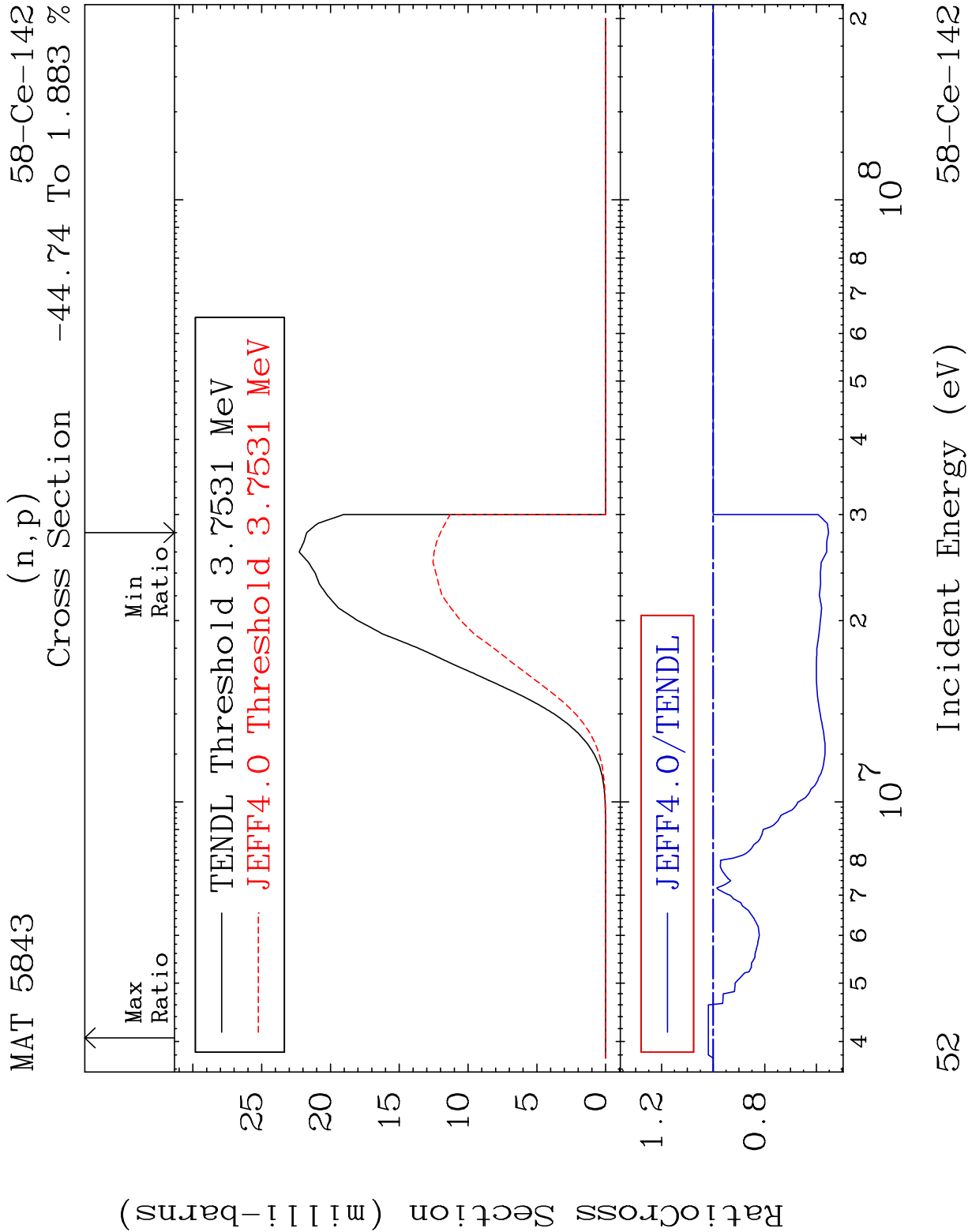
MAT 5843

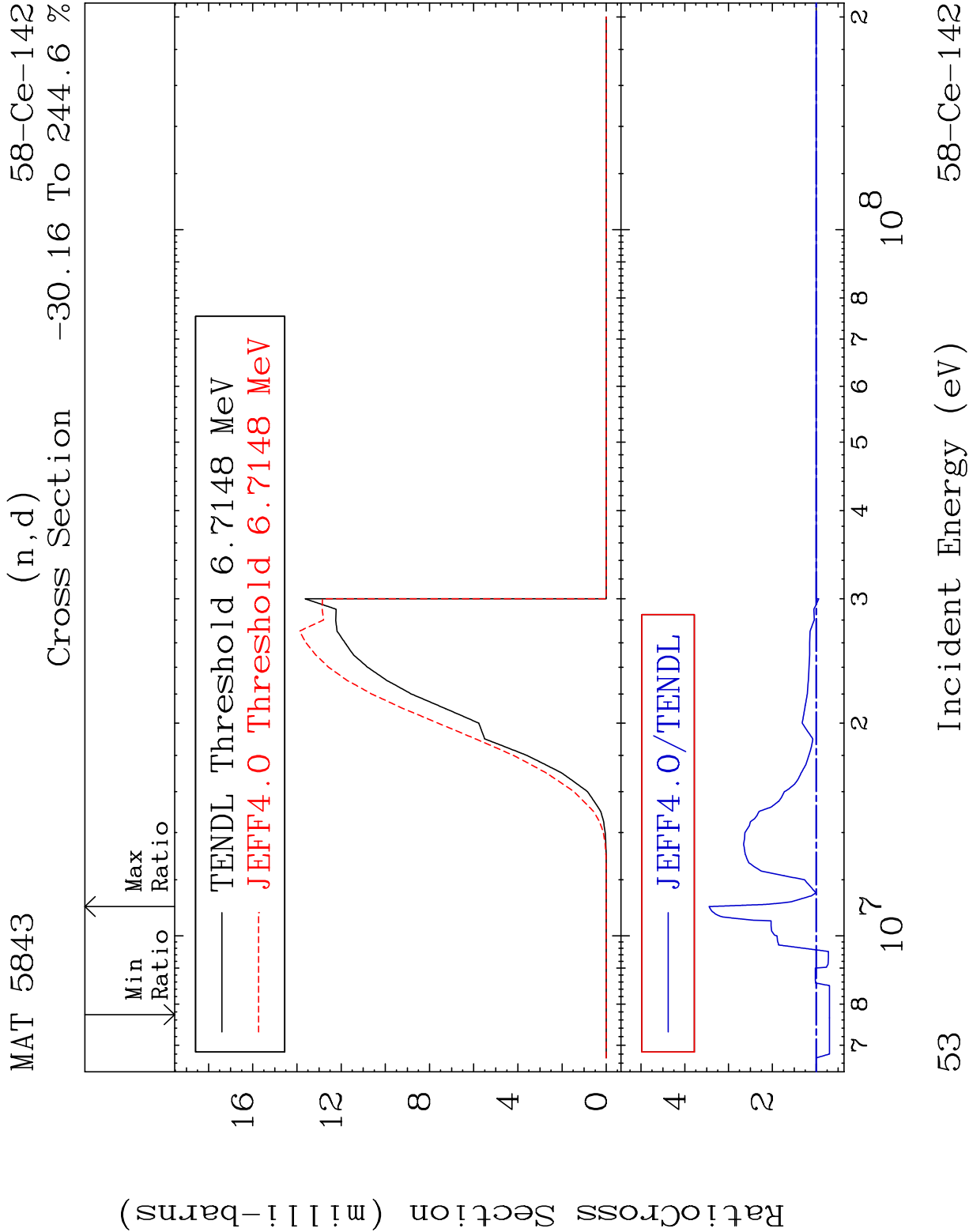
(n, γ)

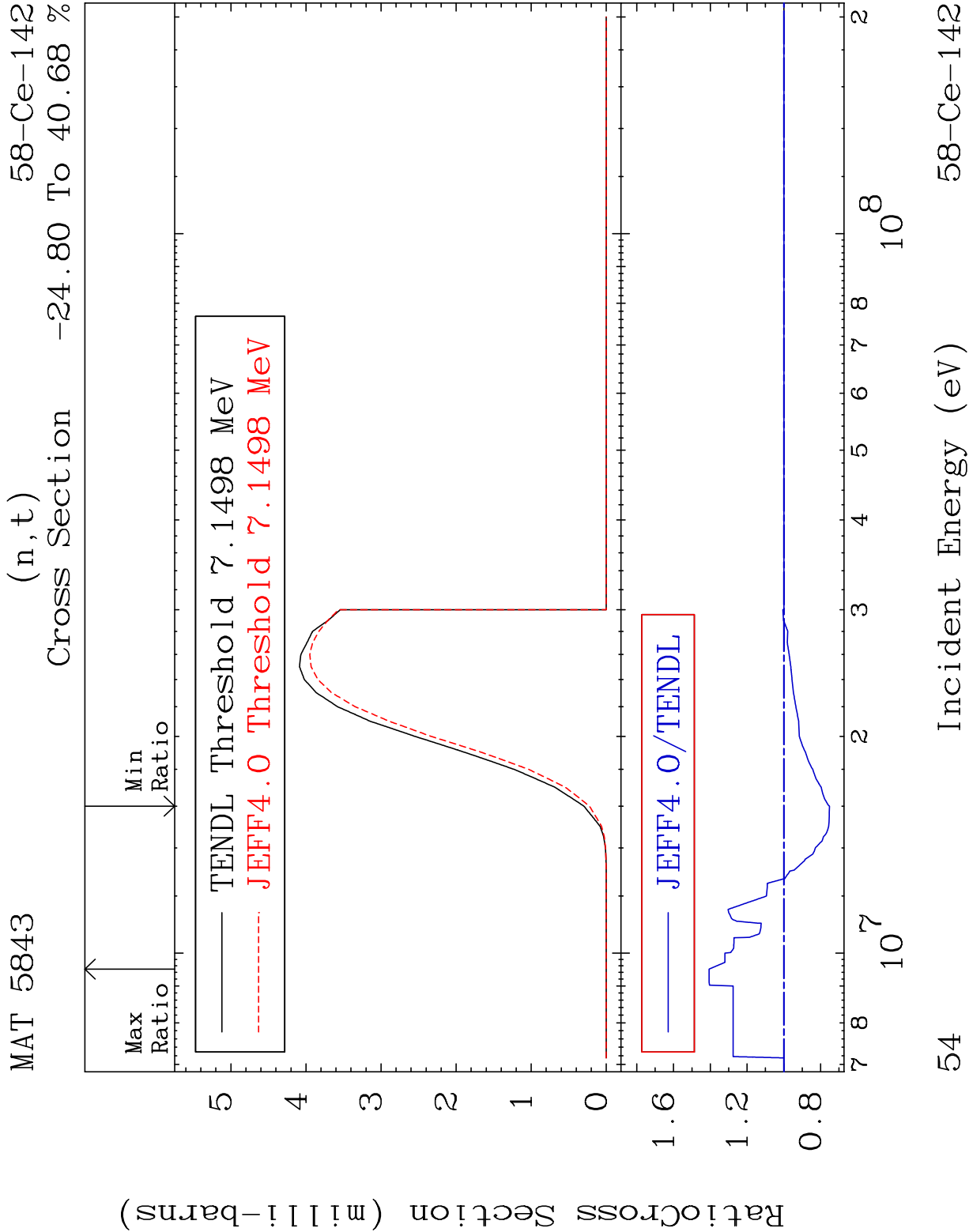
58-Ce-142

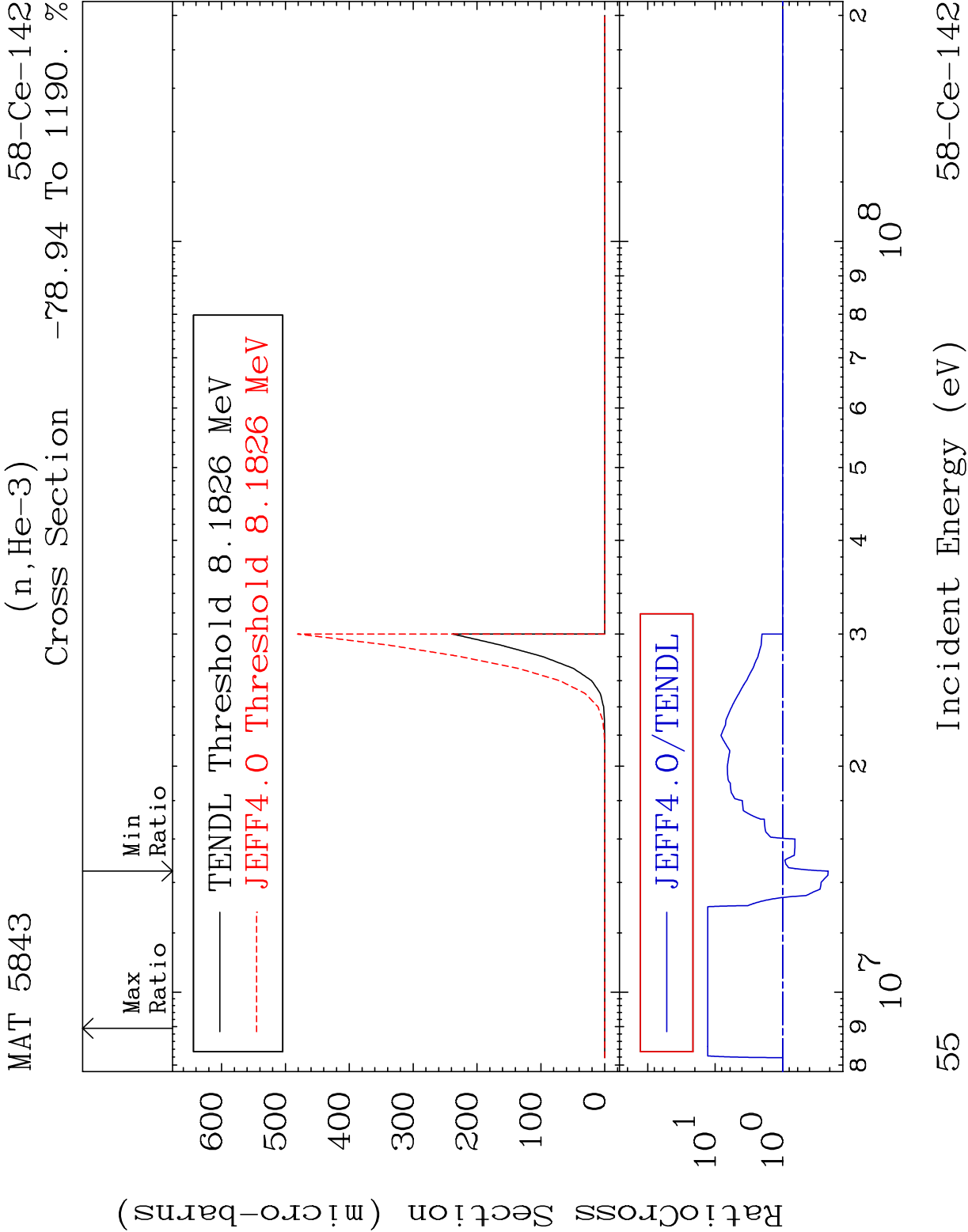
Cross Section -46.06 To 0.742 %

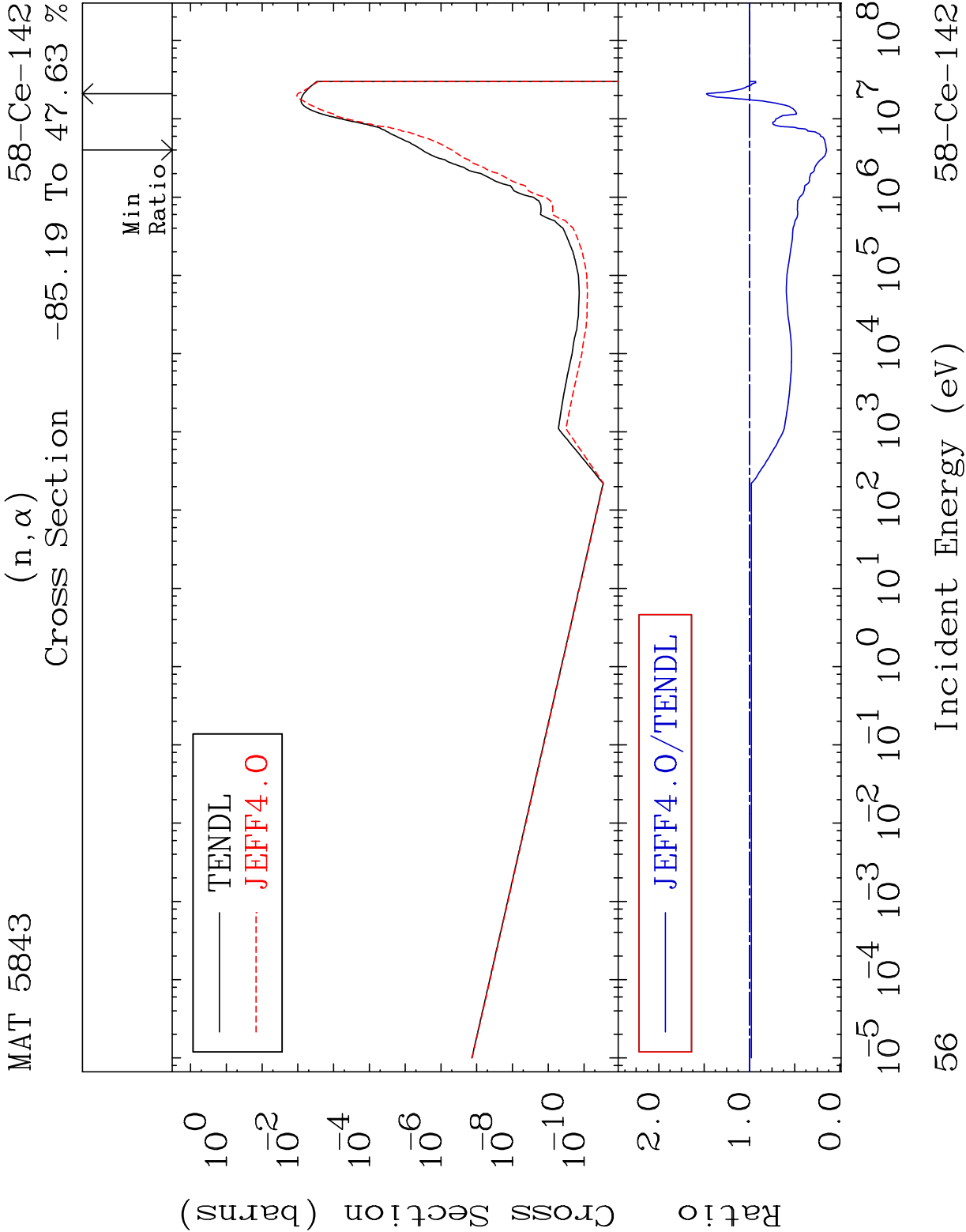










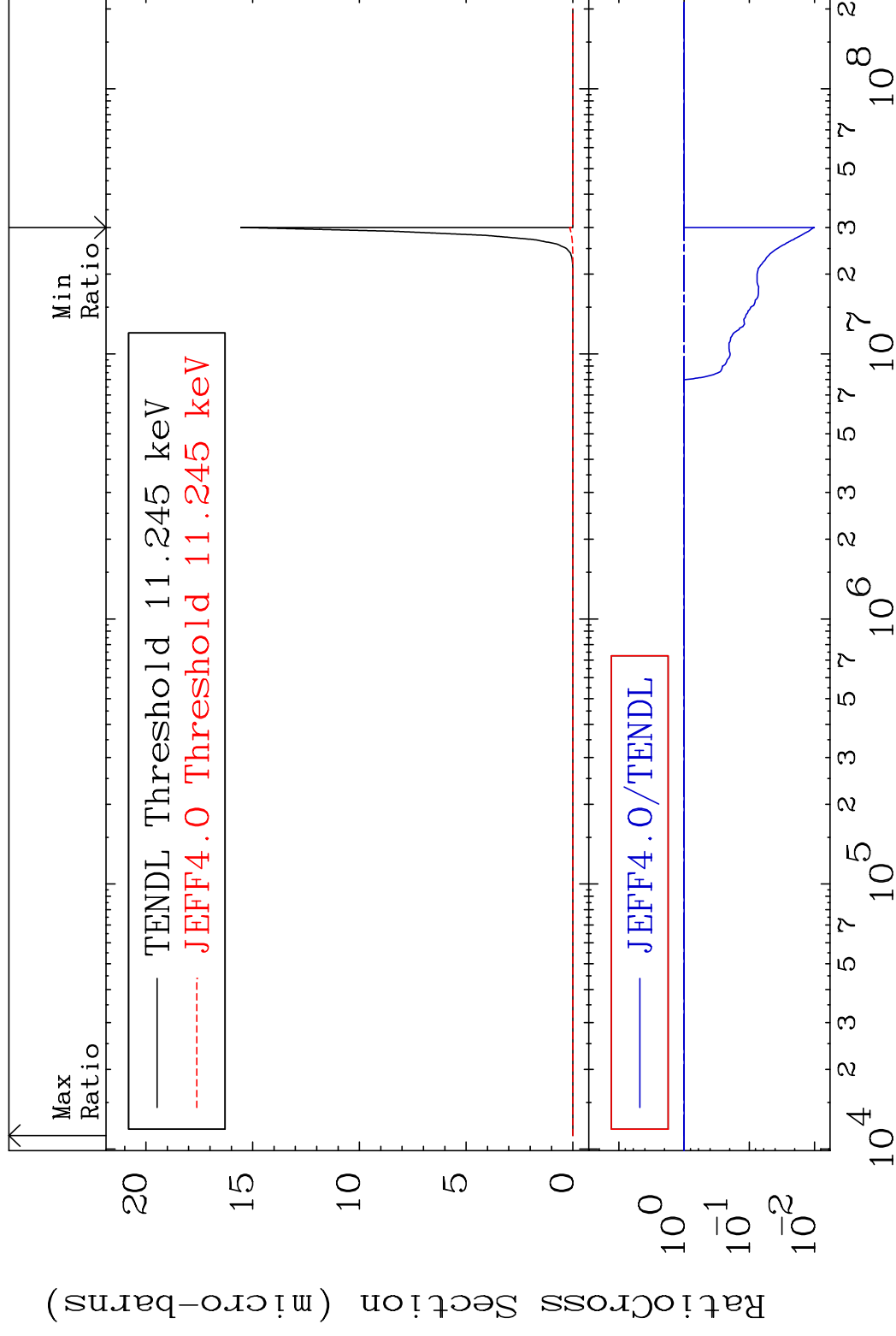


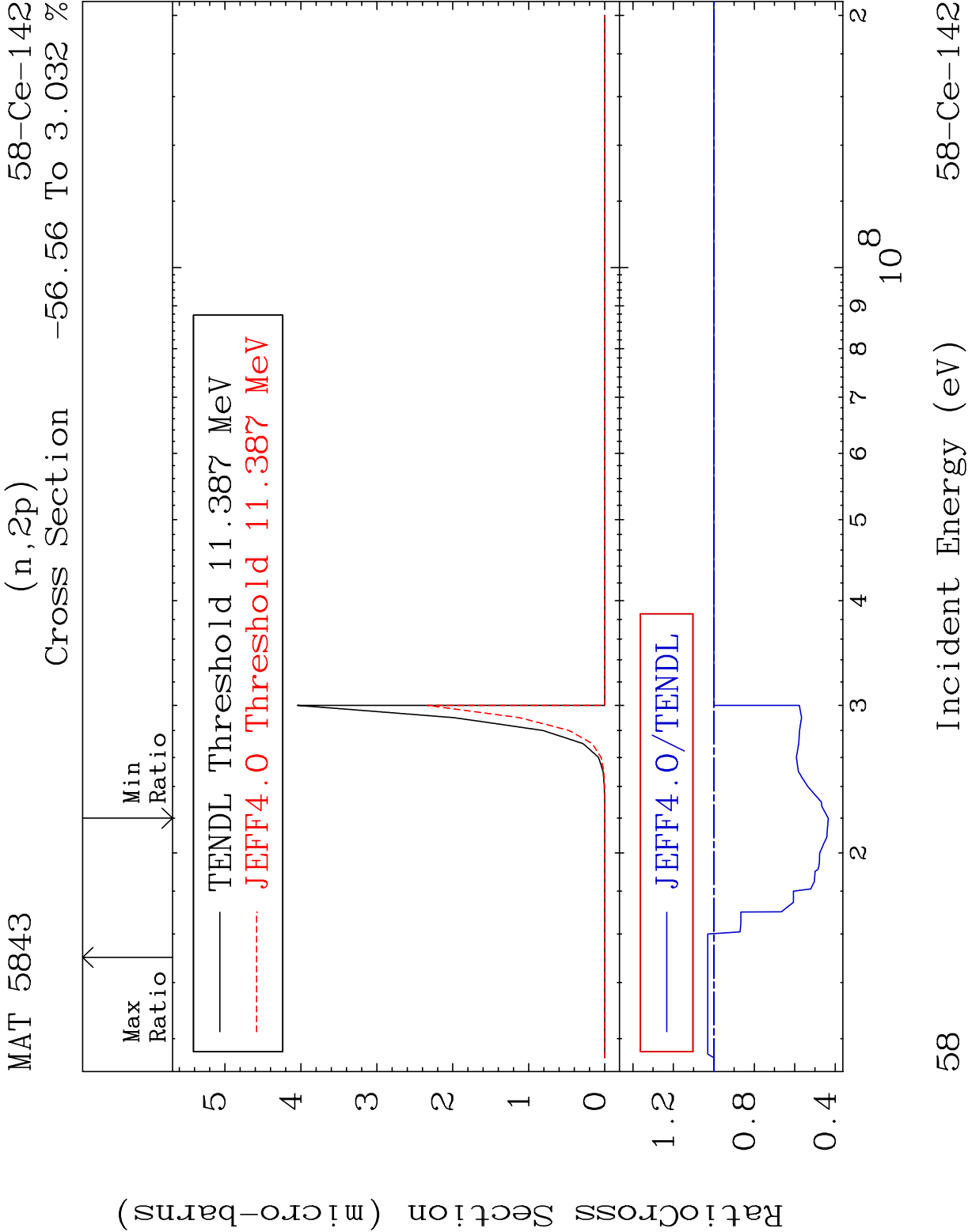
MAT 5843

$$(n, 2\alpha)$$

58-Ce-142

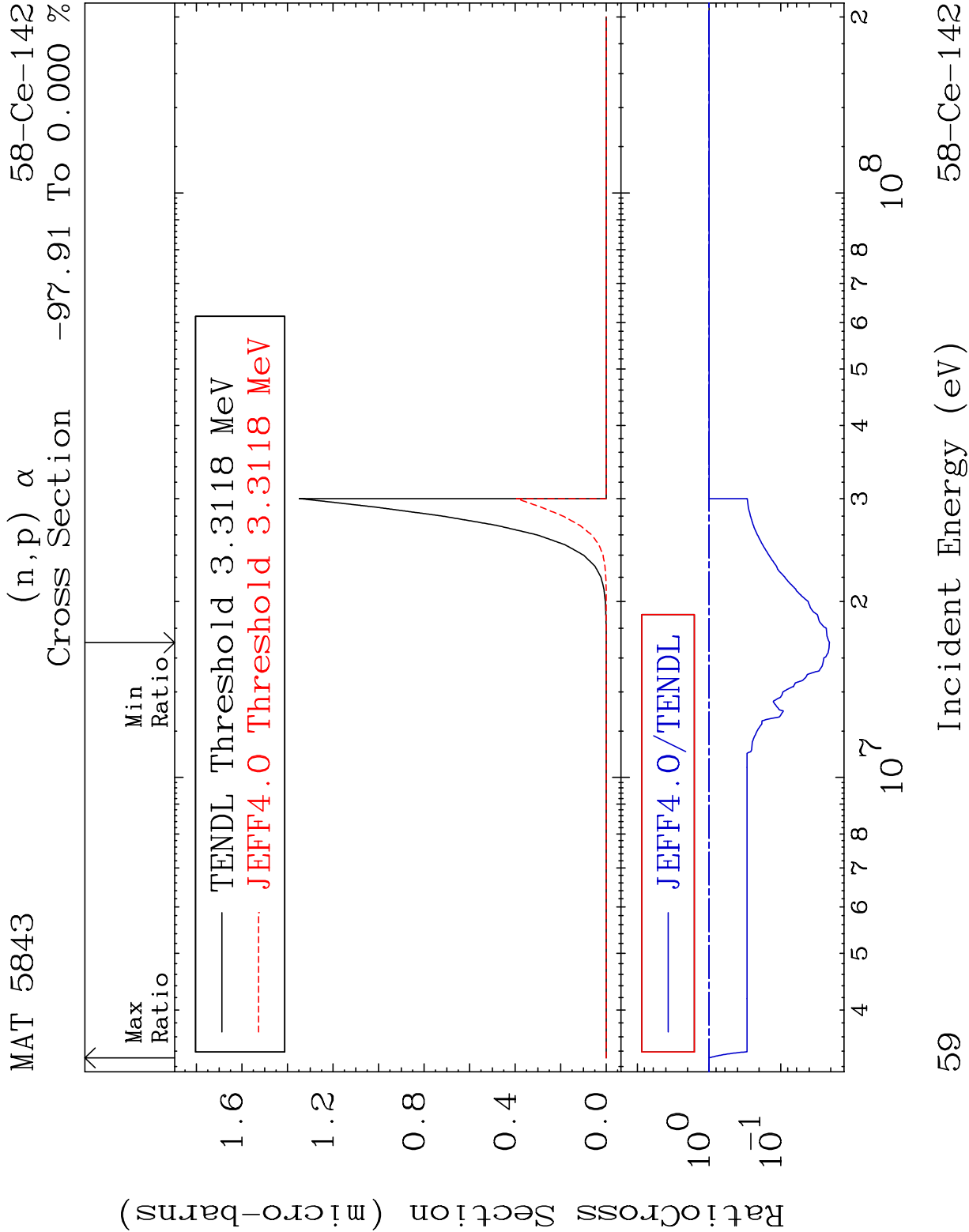
Cross Section -98.99 To 0.000 %

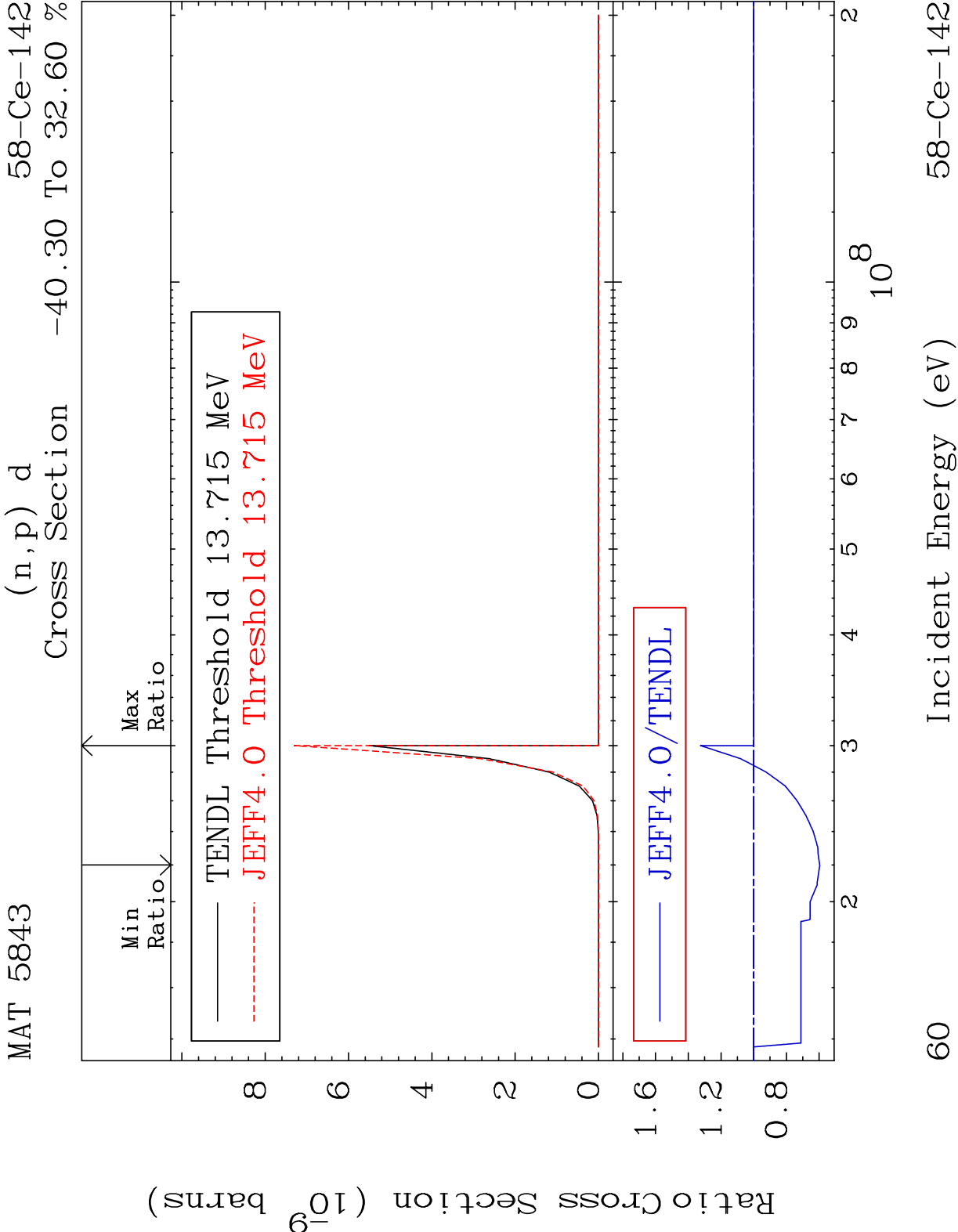


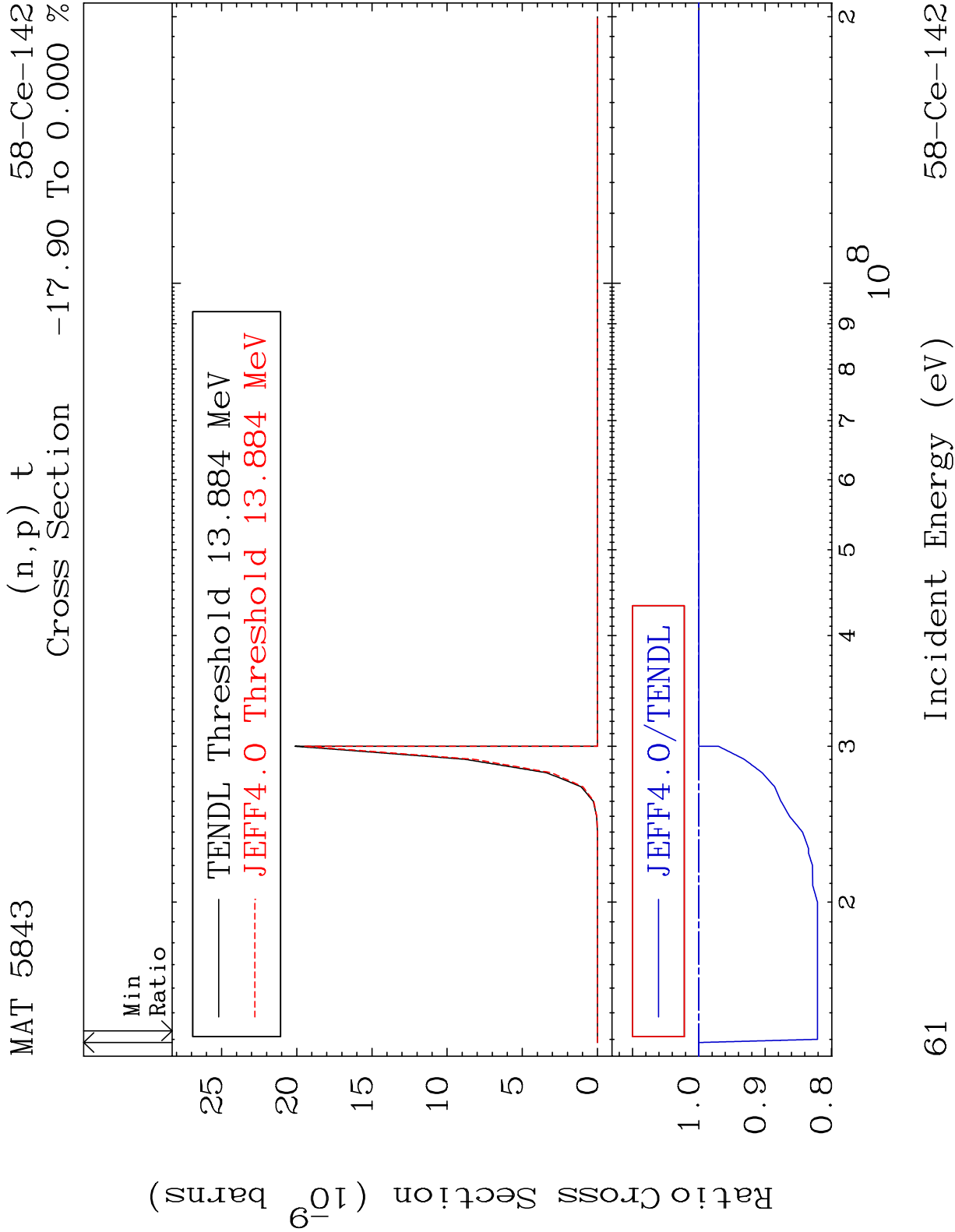


58

58-Ce-142





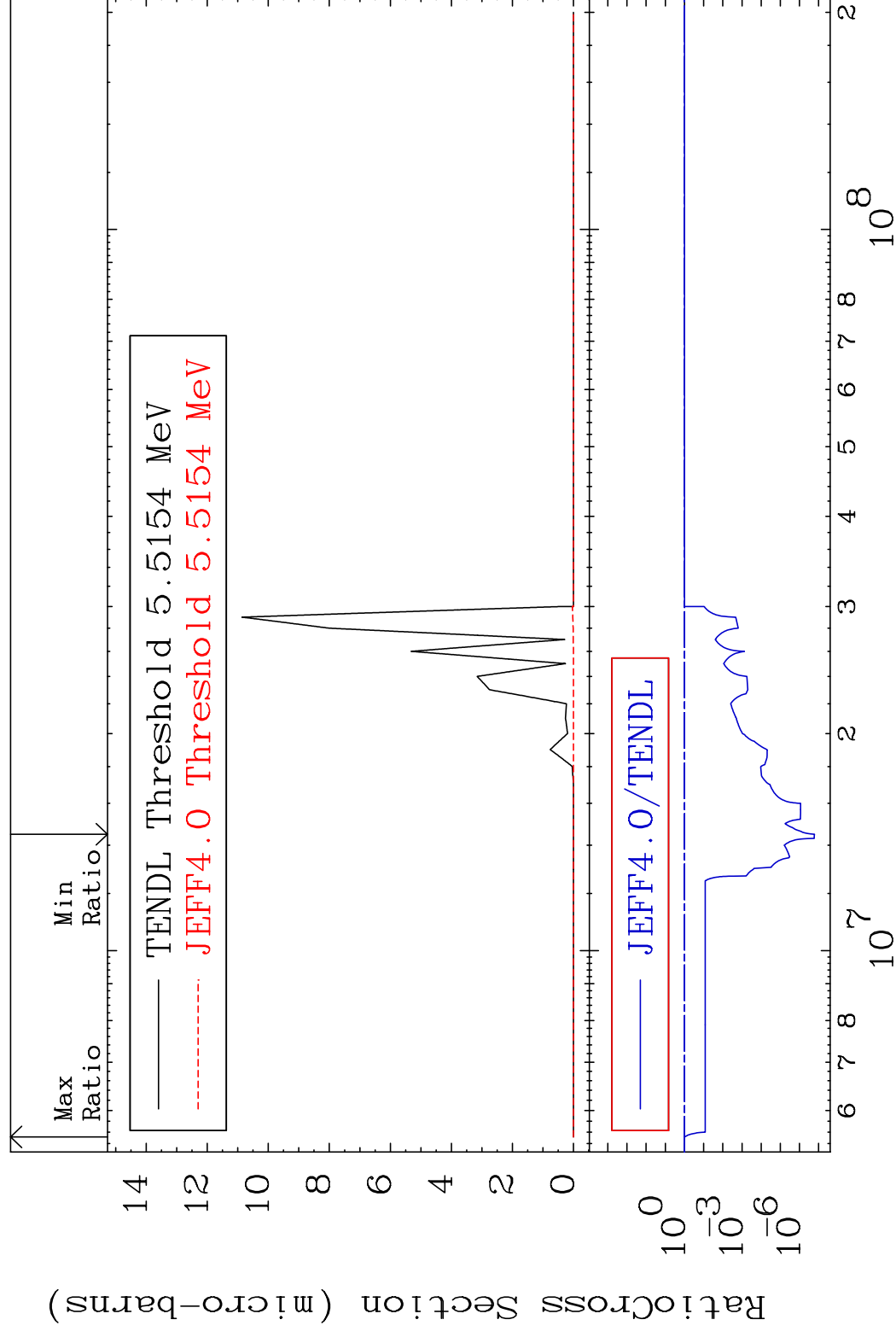


MAT 5843

$$(n, d) \propto$$

58-Ce-142

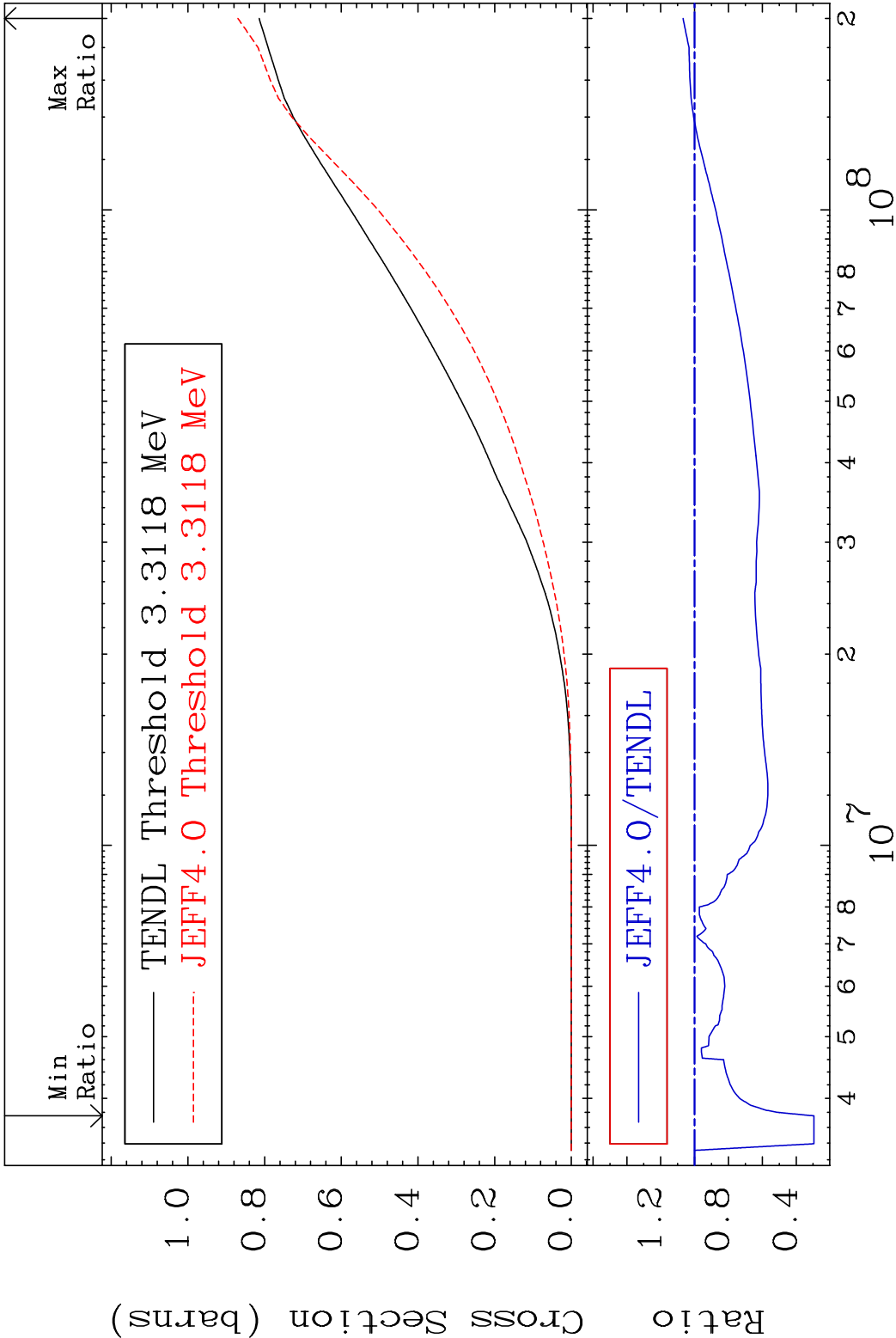
Cross Section



26

Incident Energy (eV)

58-Ce-142



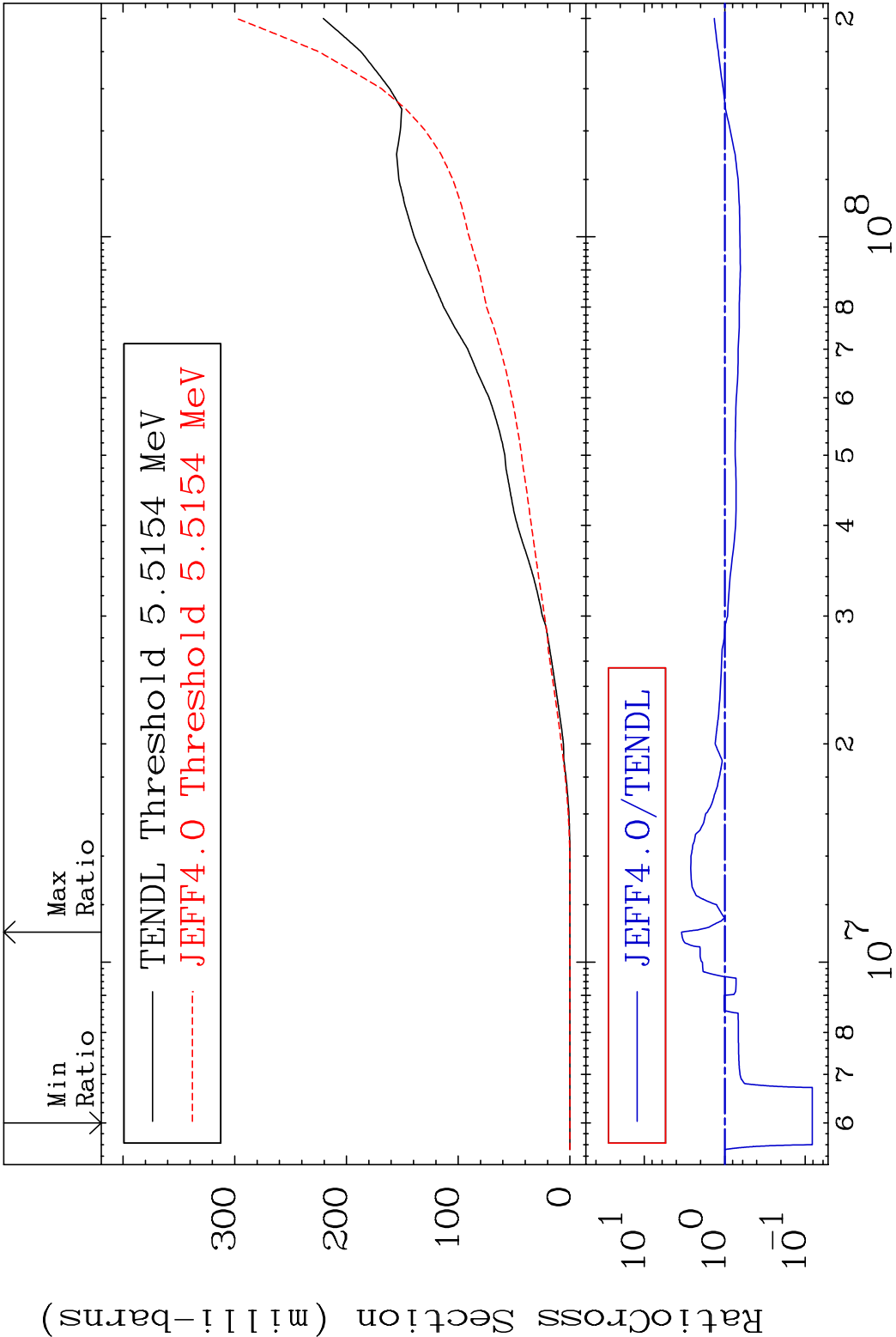
MAT 5843

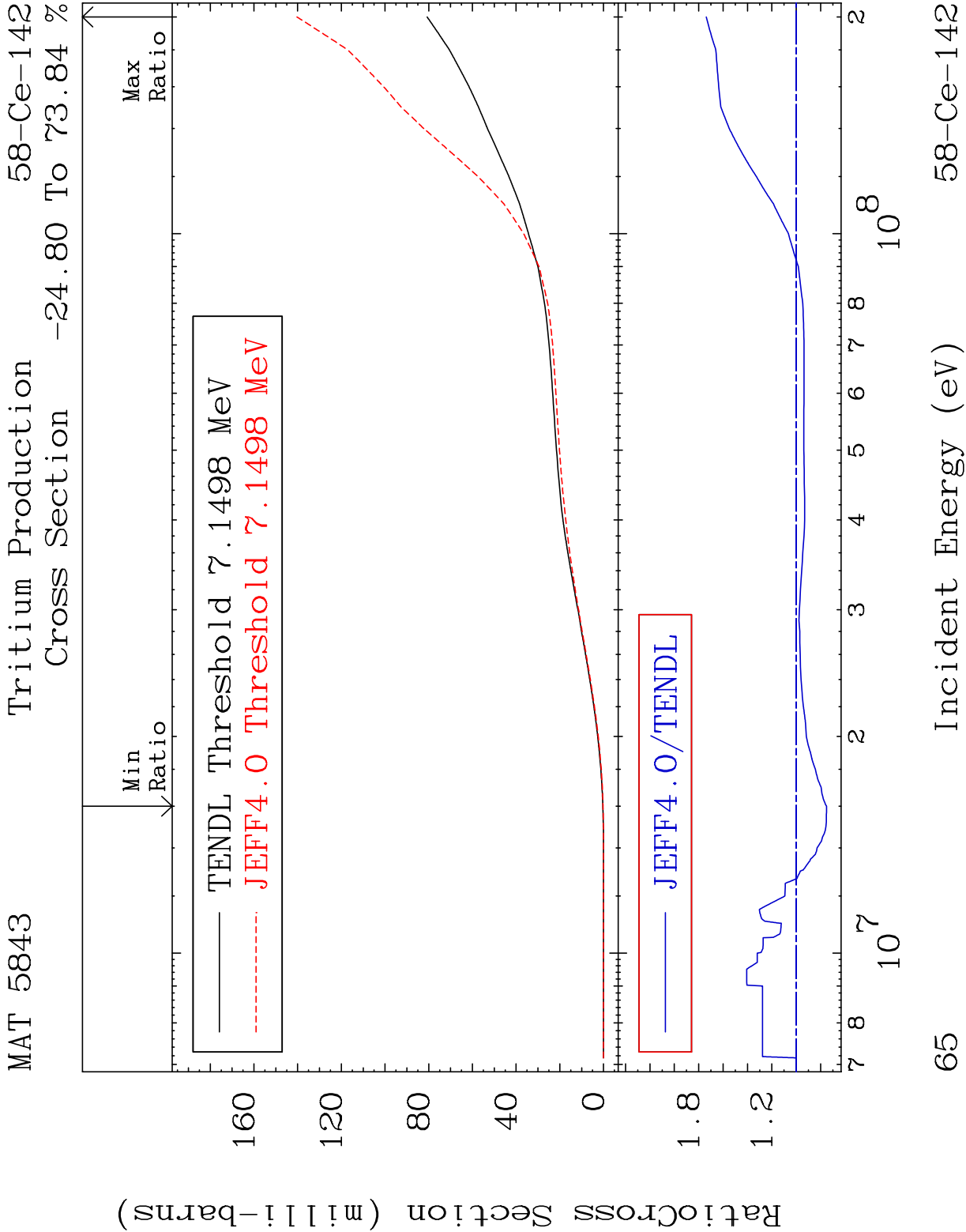
Deuterium Production

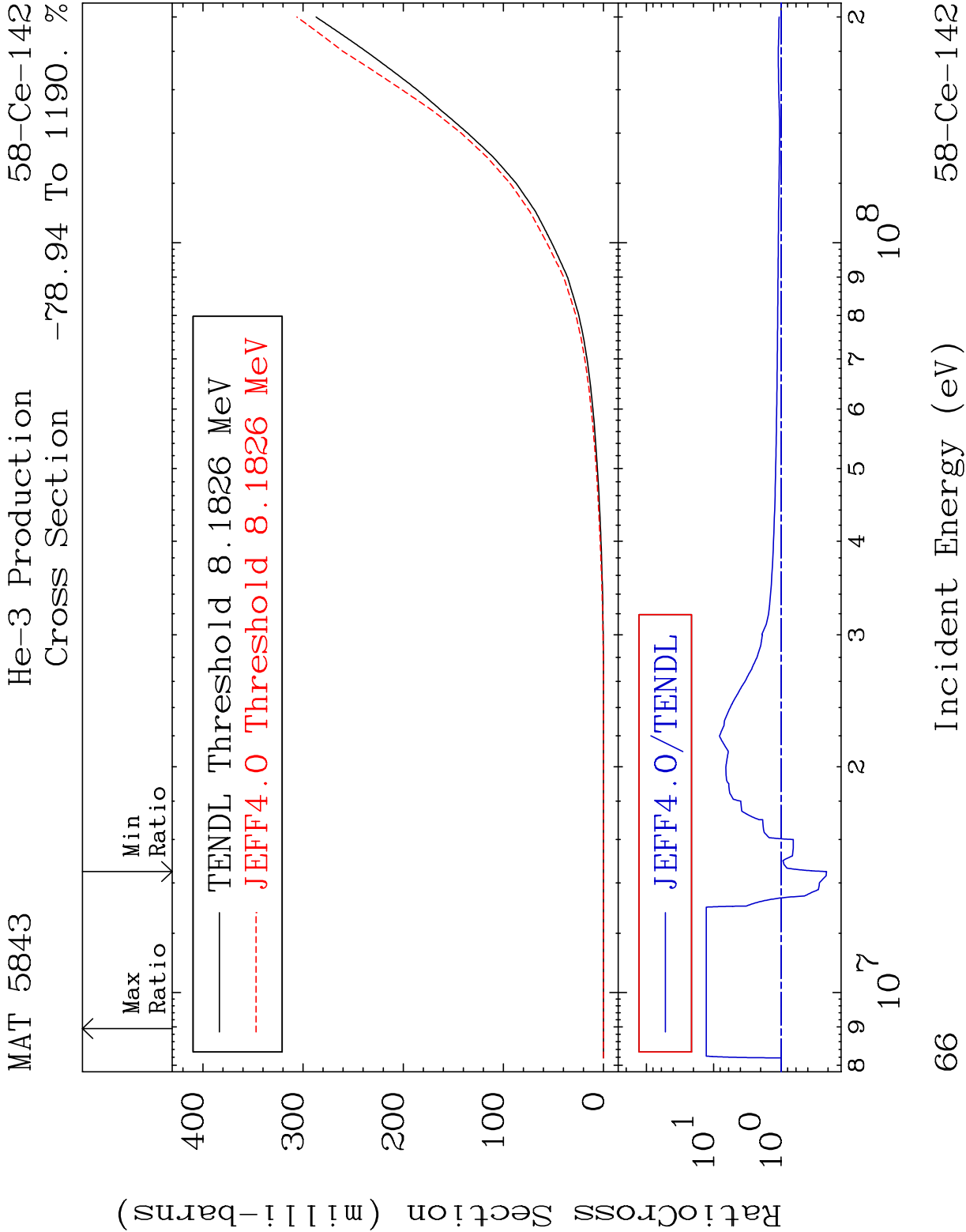
58-Ce-142

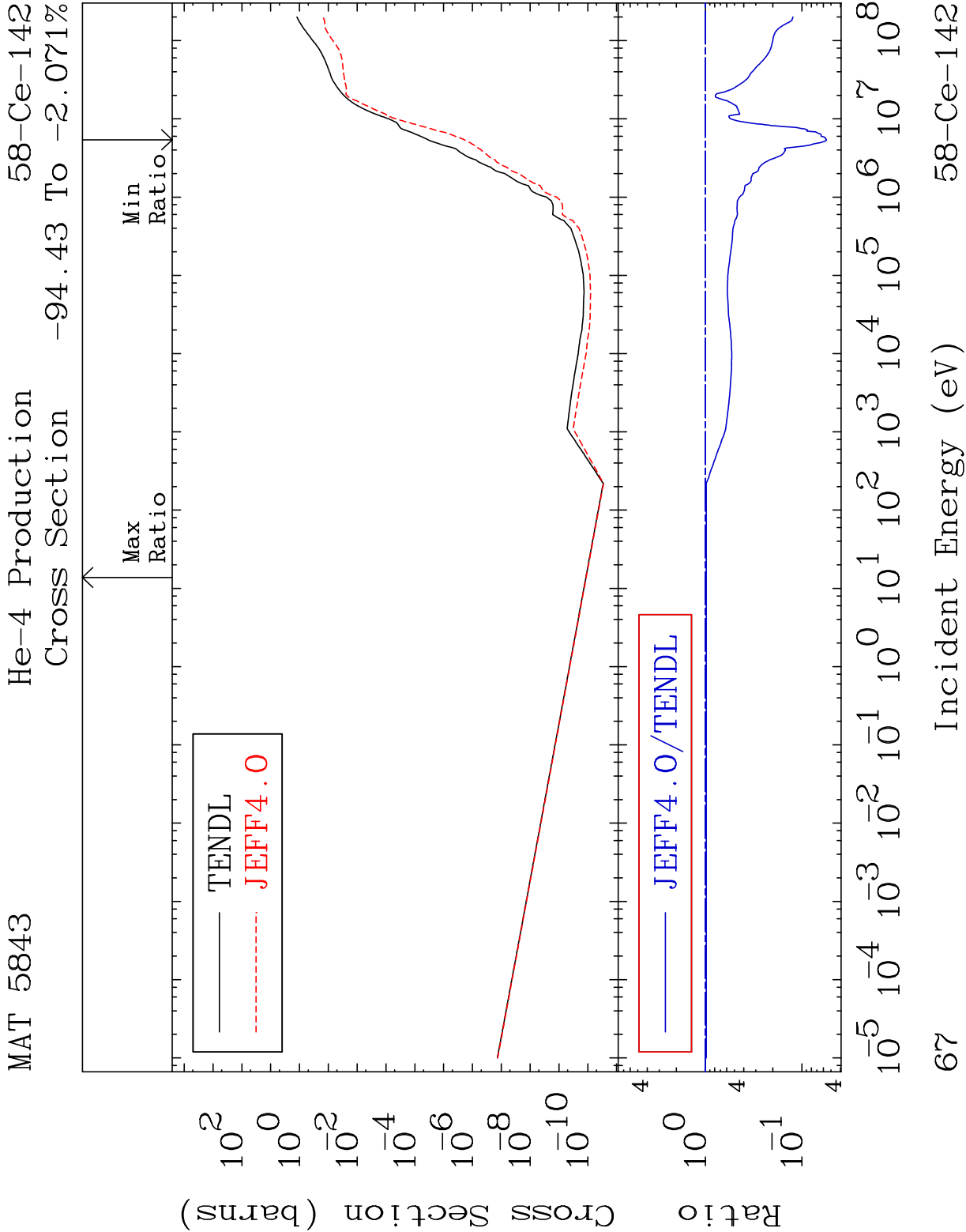
Cross Section

-91.83 To 244.6 %

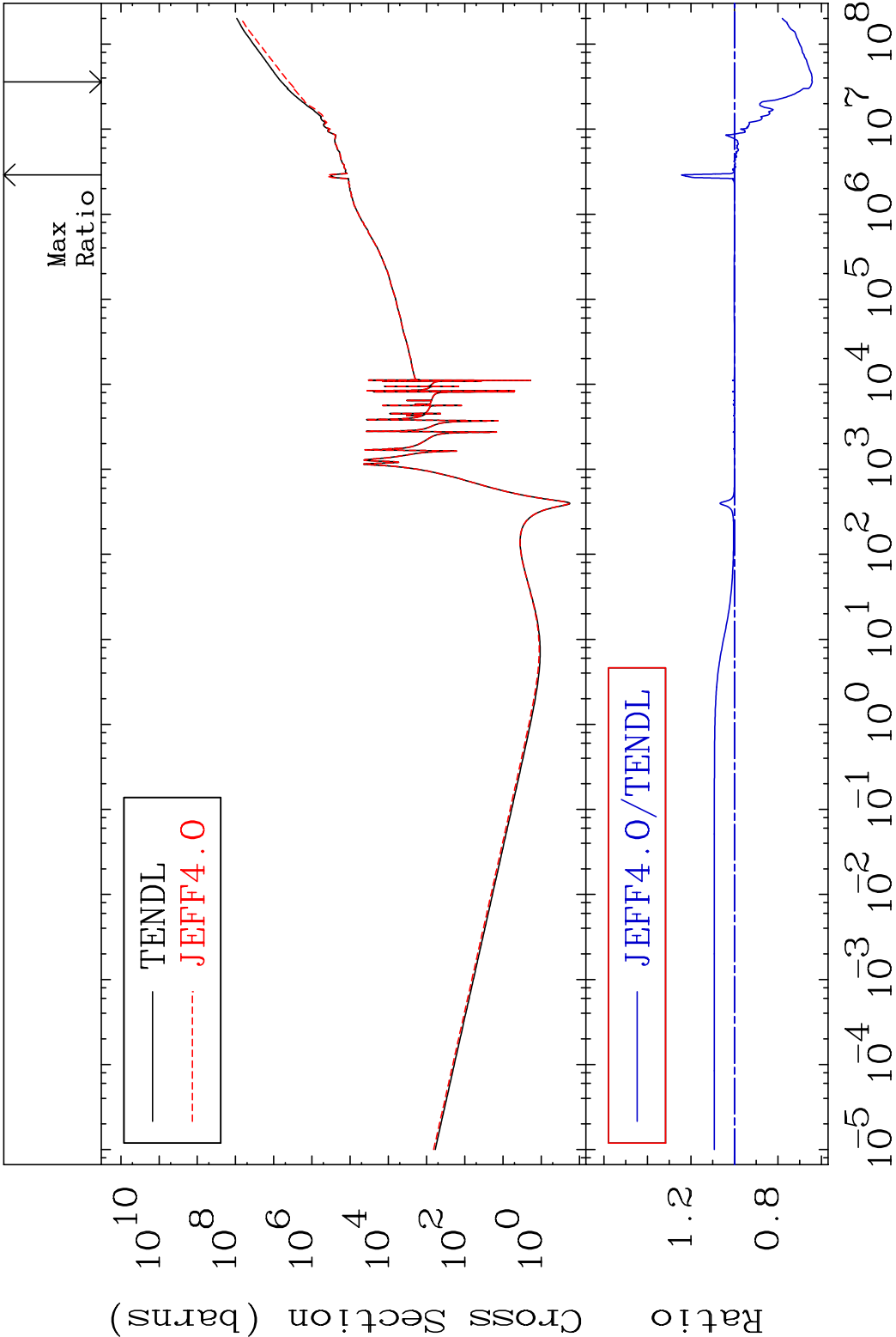






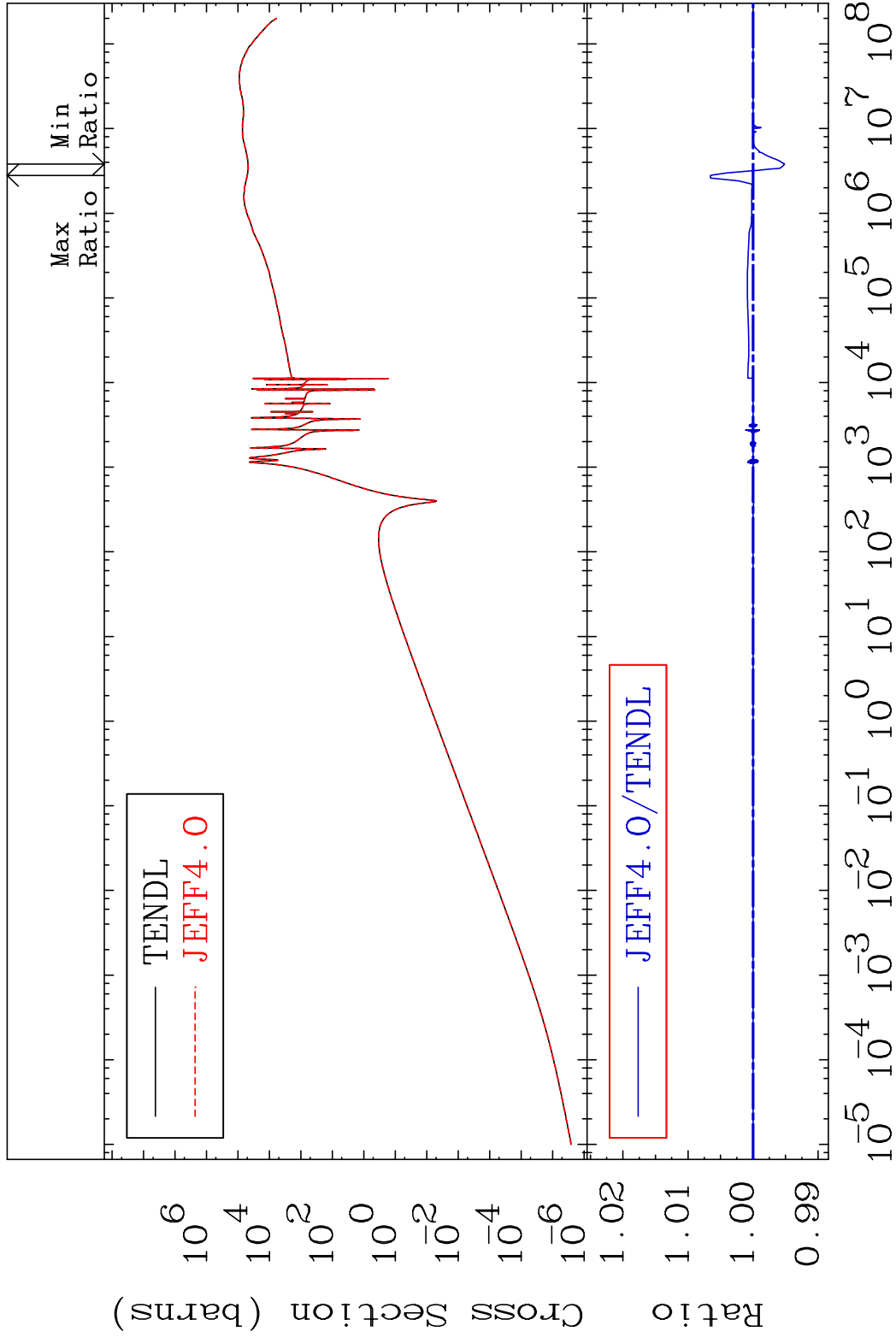


MAT 5843 Kerma total (eV-barns) 58-Ce-142
Cross Section -35.75 To 24.36 %



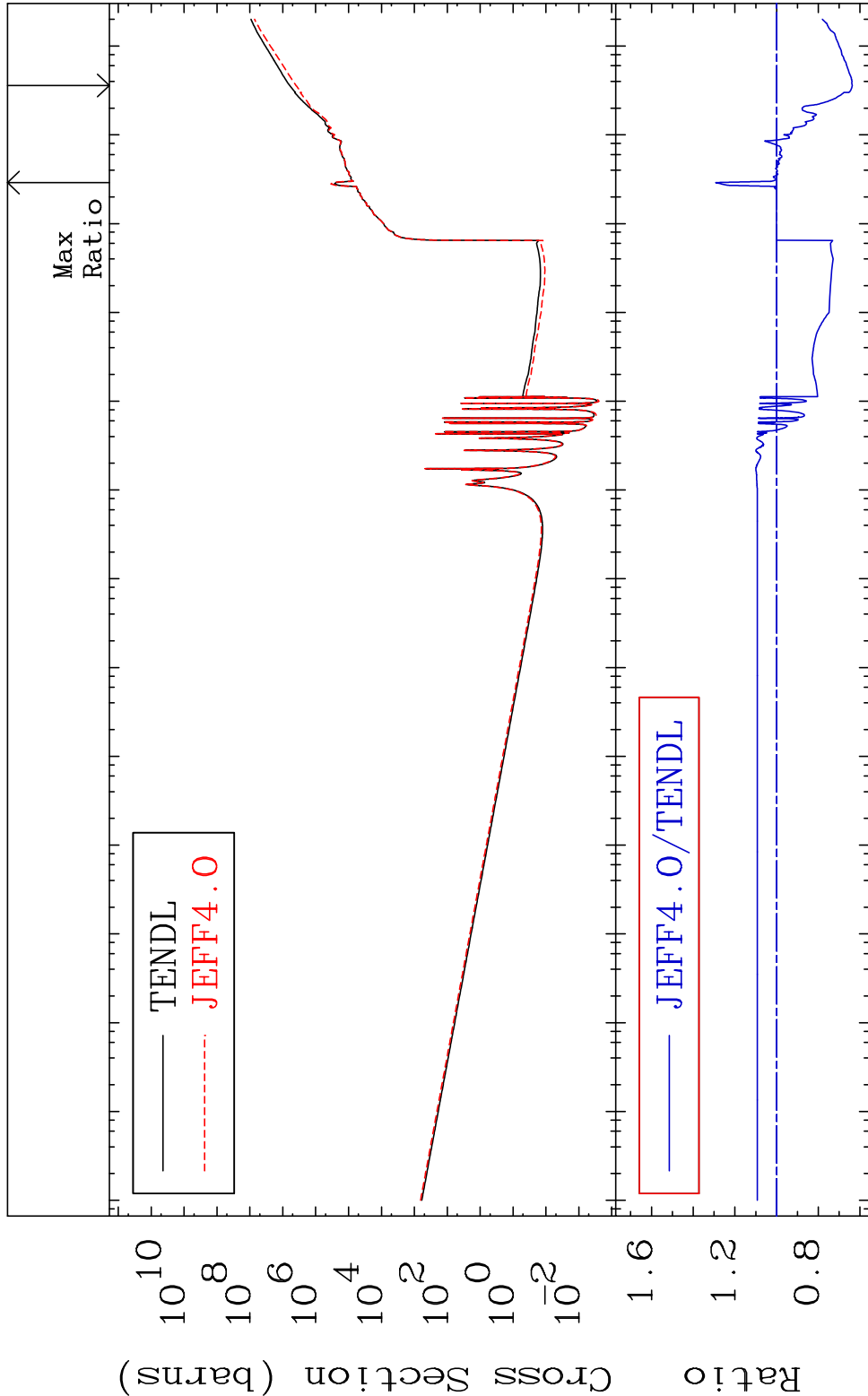
68 Incident Energy (eV) 58-Ce-142

MAT 5843	Kerma elastic	58-Ce-142
	Cross Section	-0.485 To 0.657 %



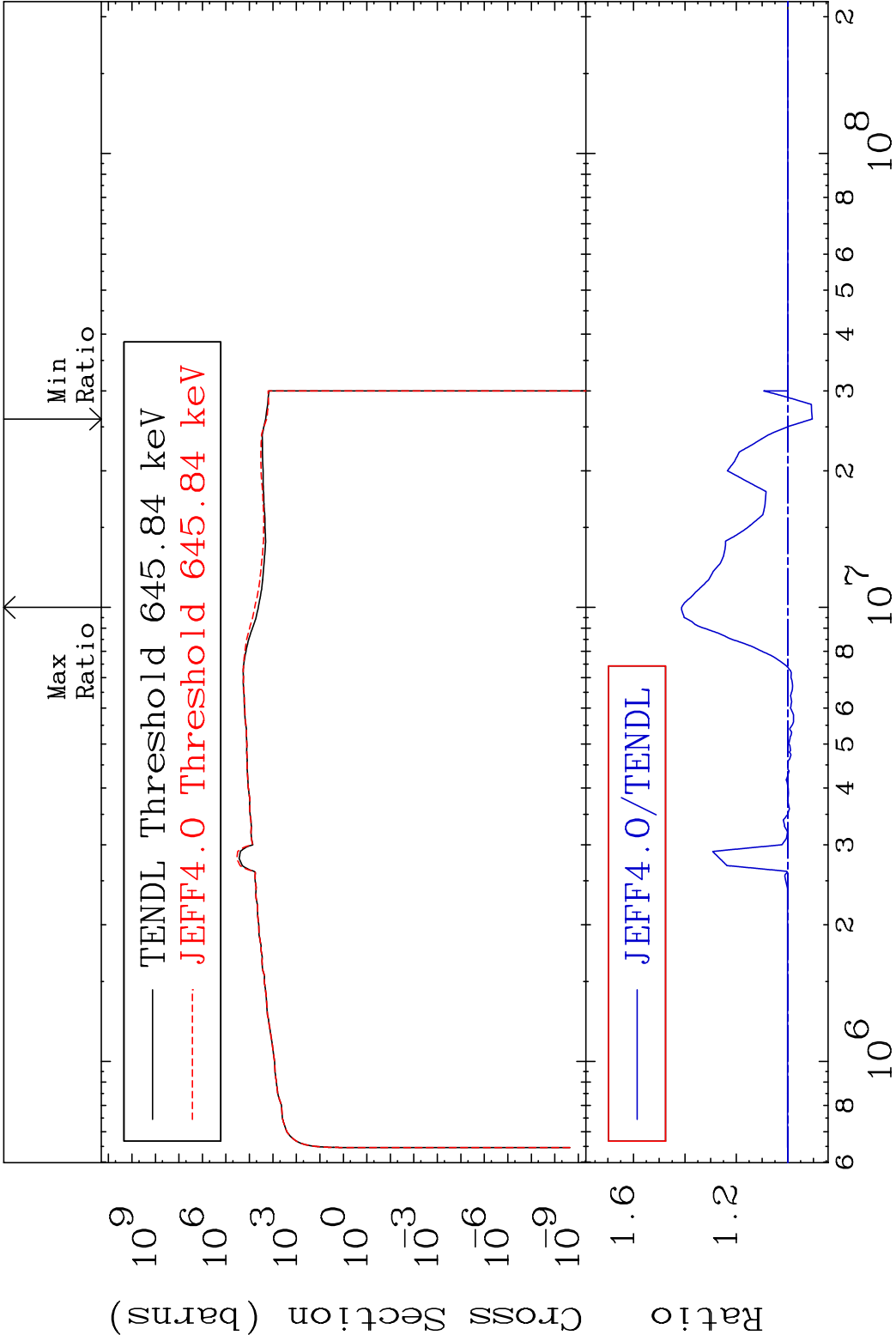
MAT 5843 Kerma non-elastic (all but mt2) 58-Ce-142

Cross Section -36.26 To 29.23 %

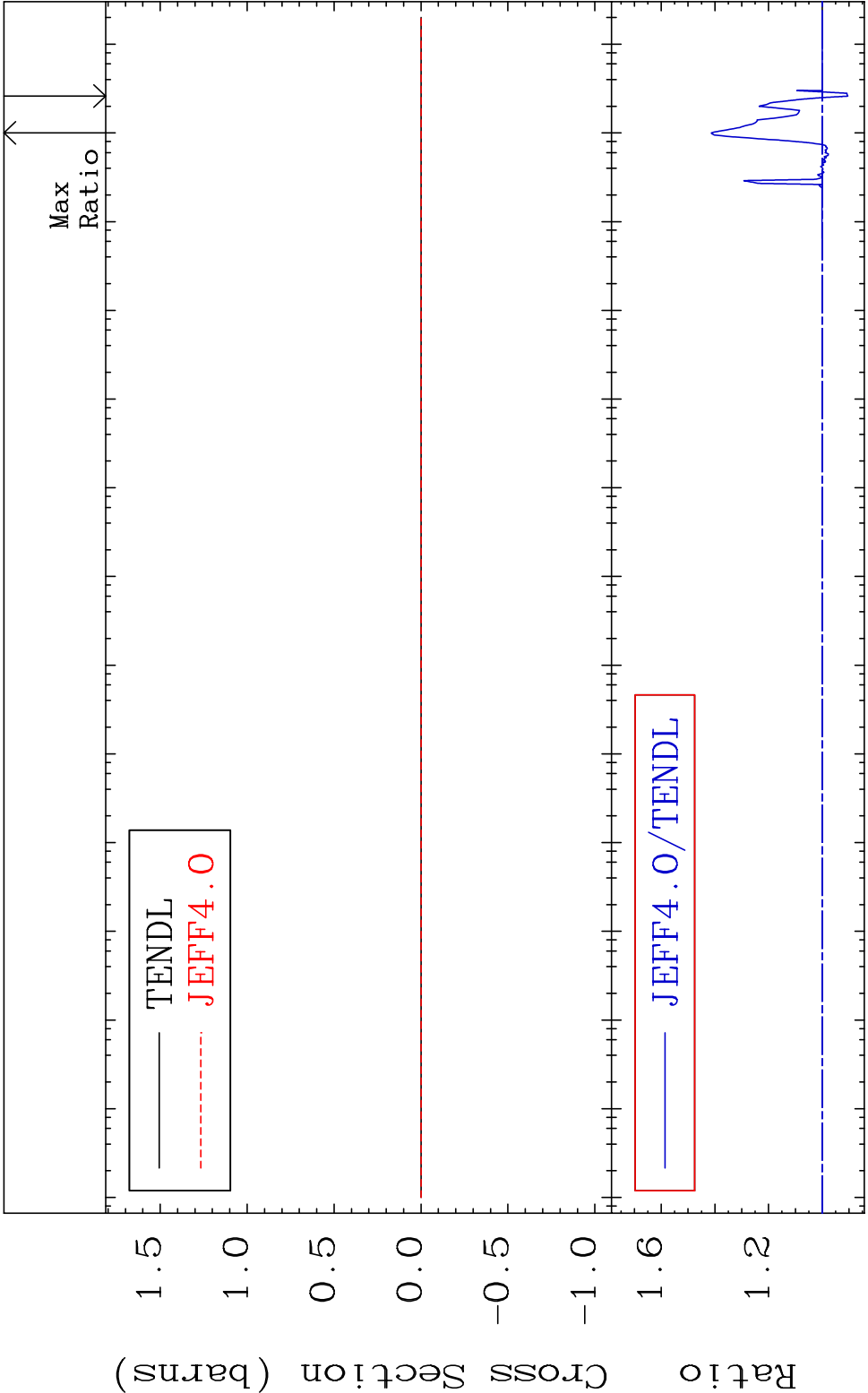


10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

70 Incident Energy (eV) 58-Ce-142



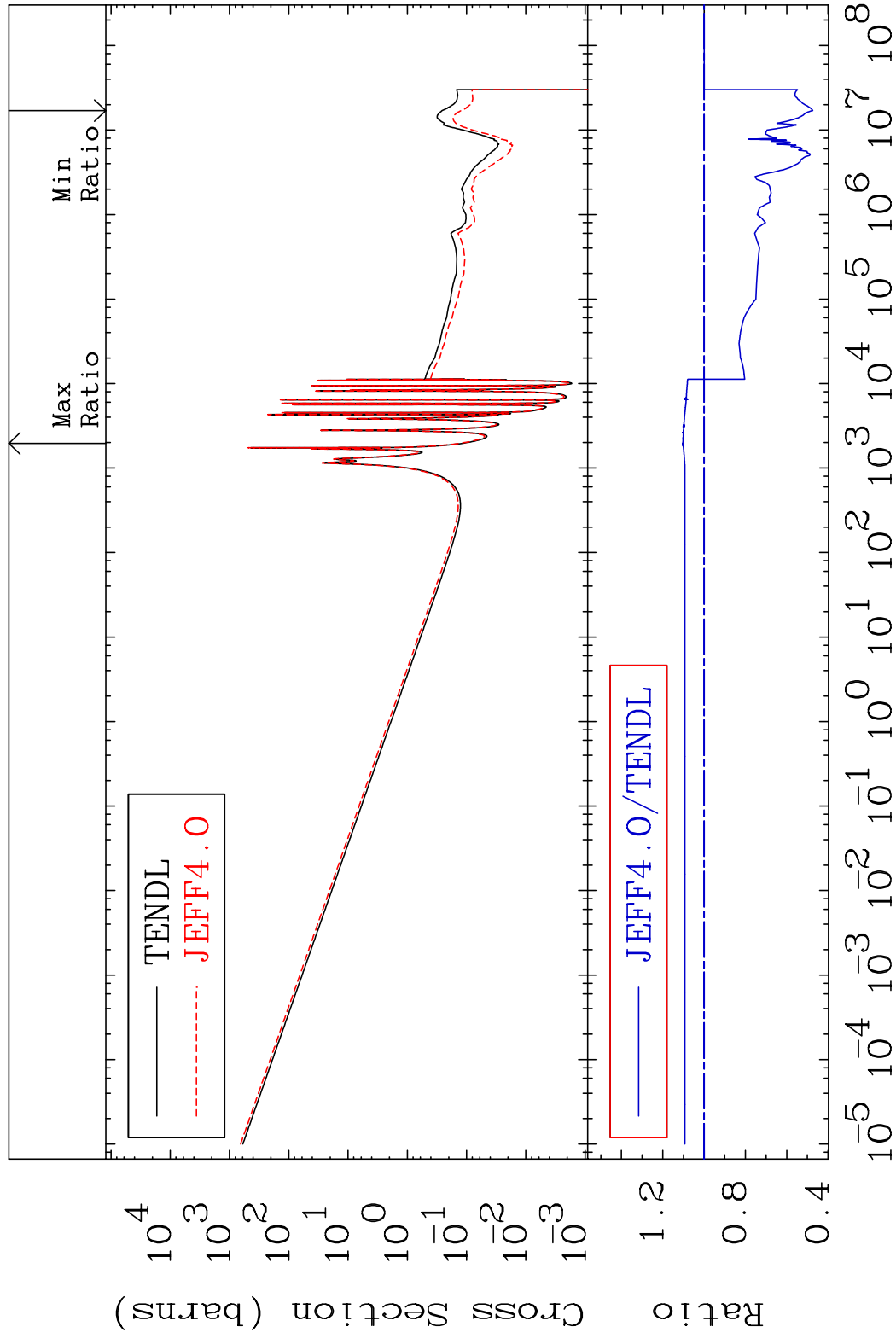
MAT 5843Kerma fission (mt18 or mt19-20-21-38)58-Ce-142
Cross Section -9.525 To 41.33 %



MAT 5843

Kerma capture (mt102)	58-Ce-142
Cross Section	-52.57 To 10.32 %

Cross Section -52.57 To 10.32 %

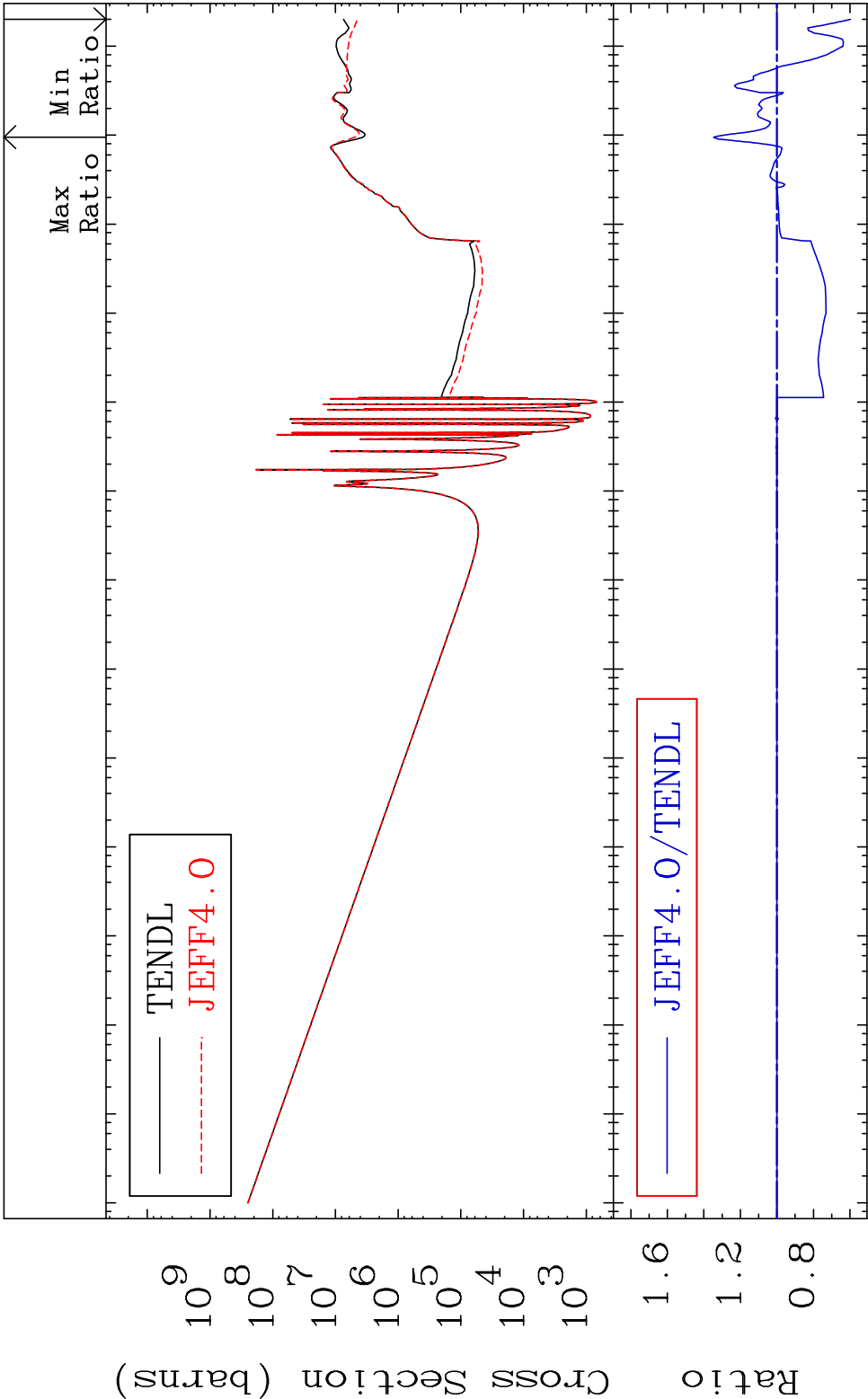


32

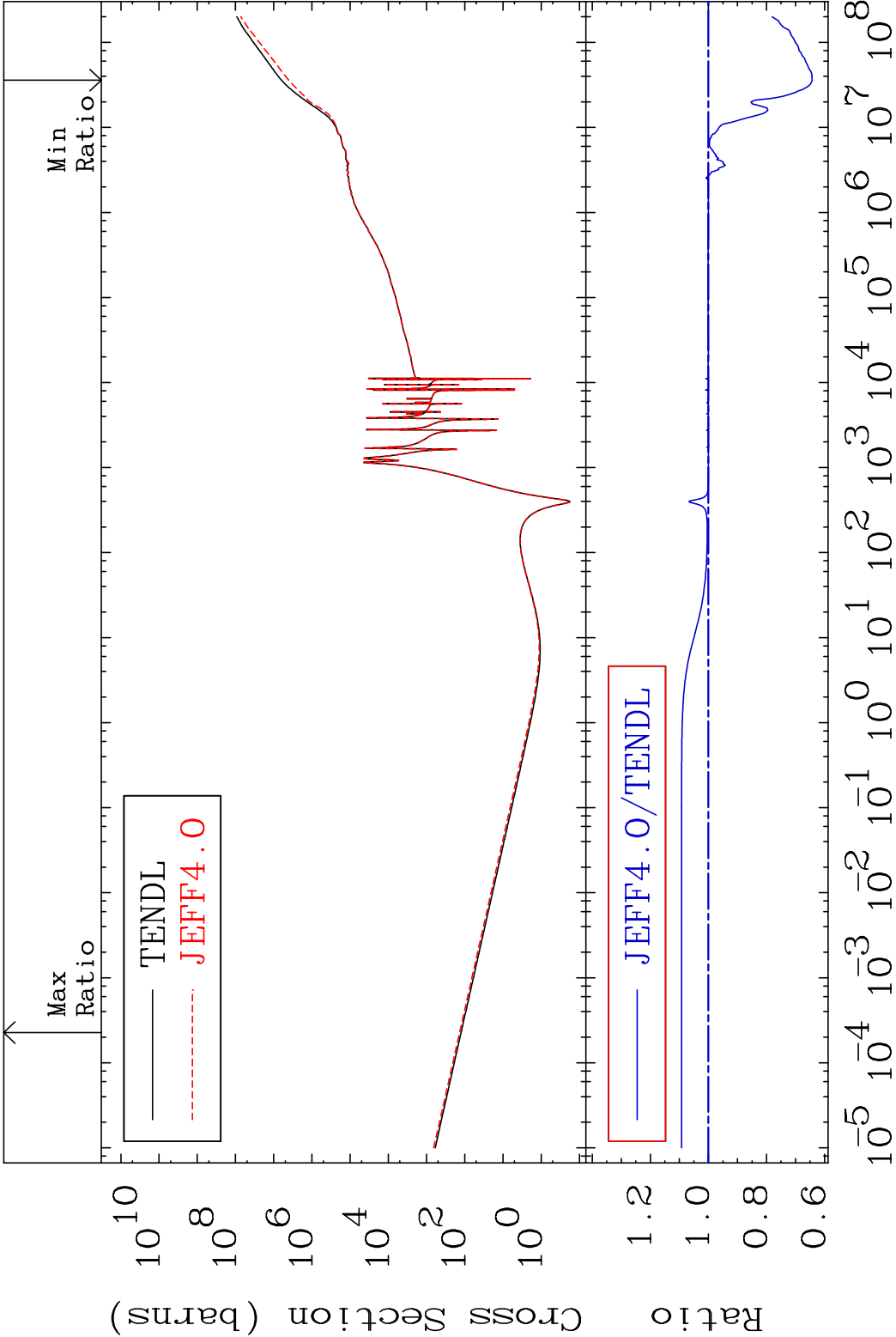
Incident Energy (eV)

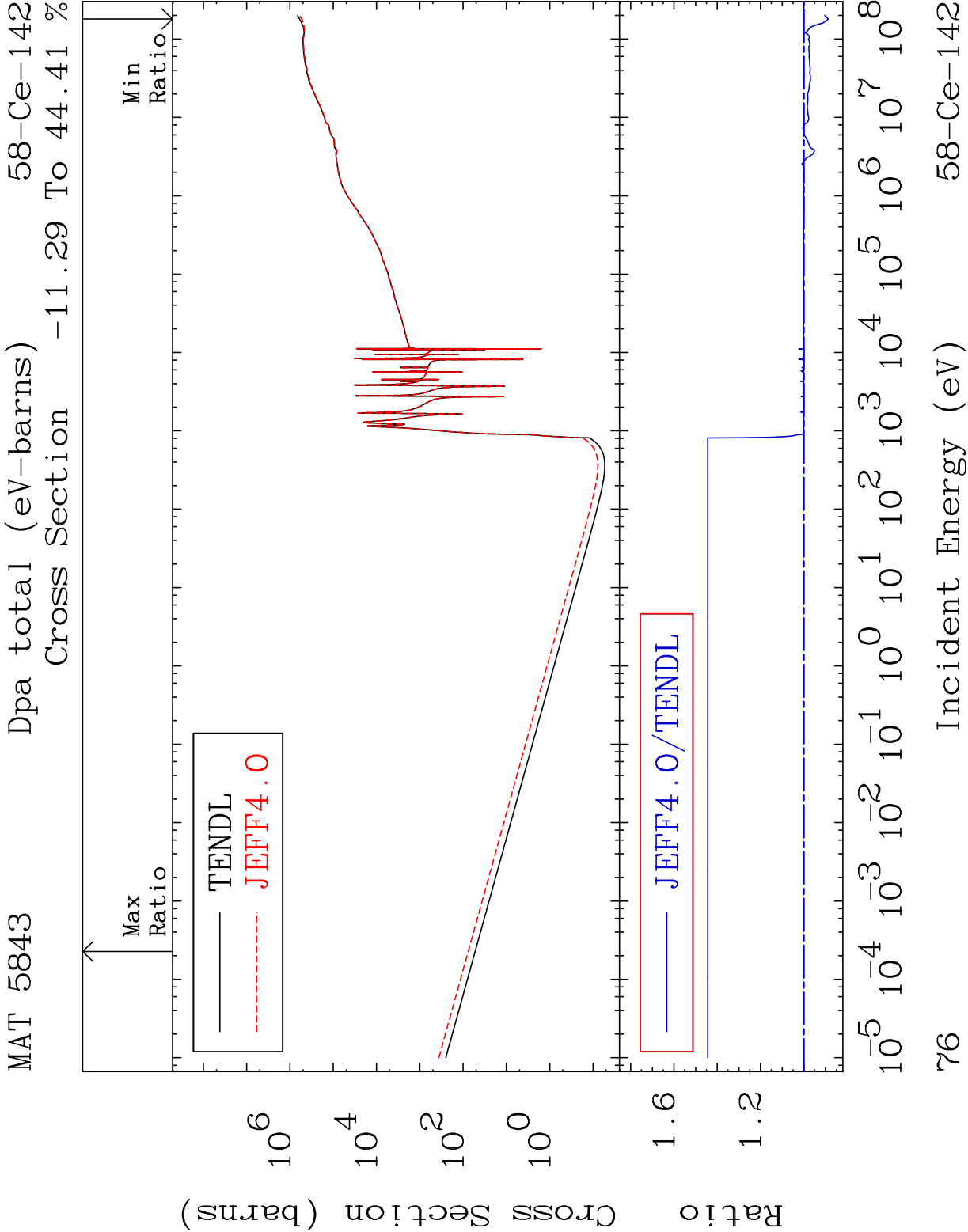
58-Ce-142

MAT 5843 Total photon (eV-barns) 58-Ce-142
Cross Section -40.22 To 34.69 %

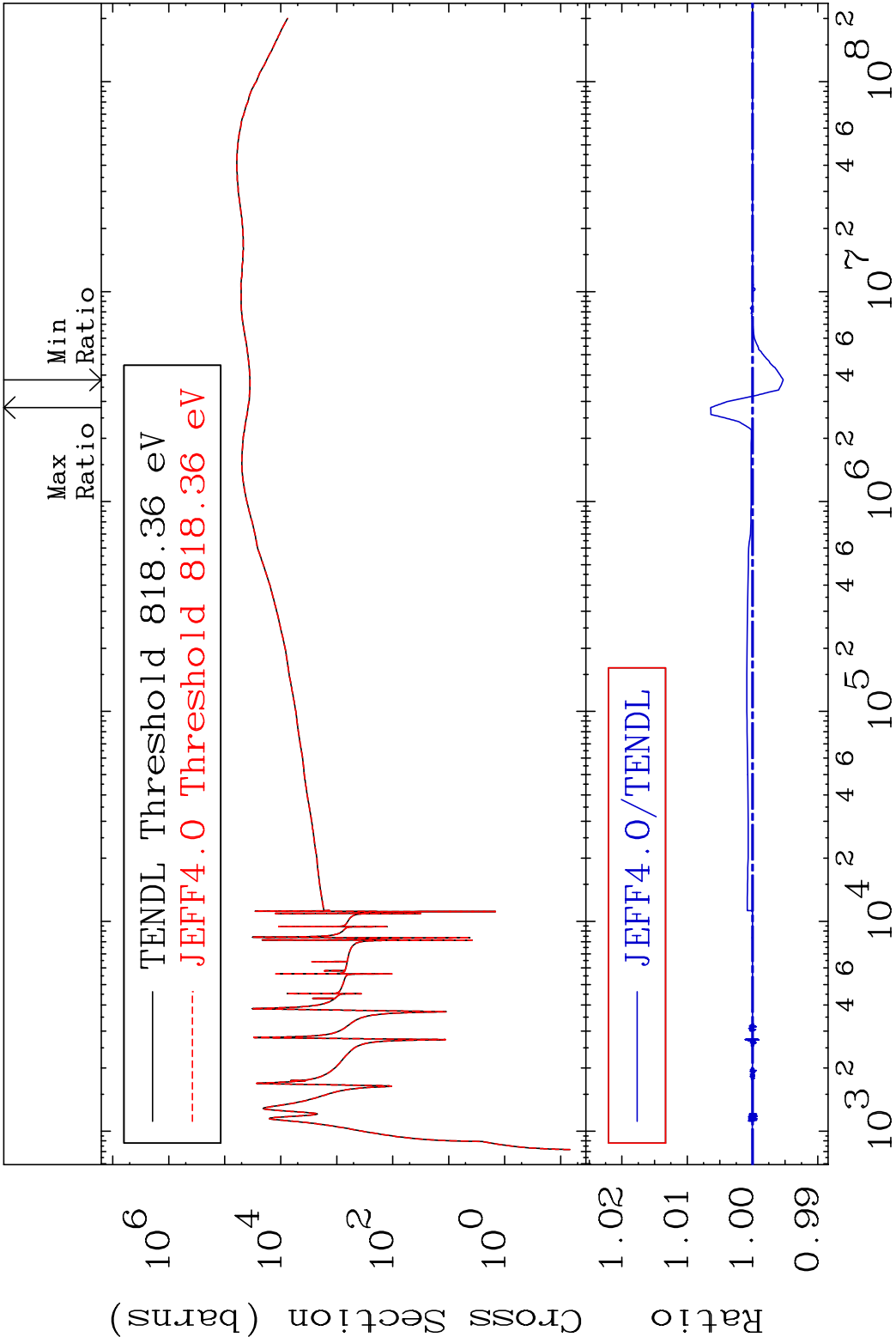


MAT 5843 Total kinematic kerma (high limit) 58-Ce-142
Cross Section -35.75 To 9.263 %



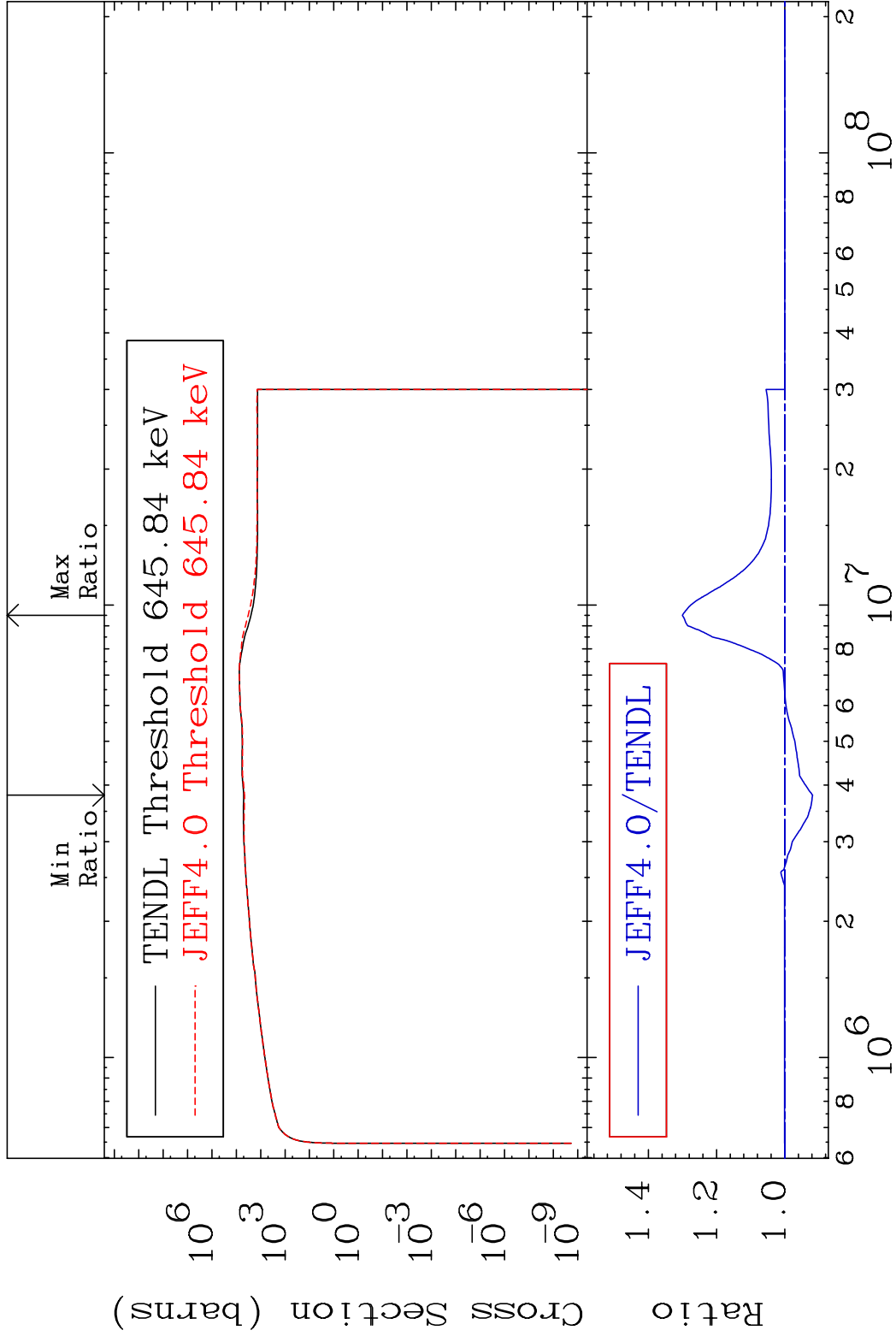


MAT 5843 Dpa elastic (mt2) 58-Ce-142
Cross Section -0.469 To 0.641 %

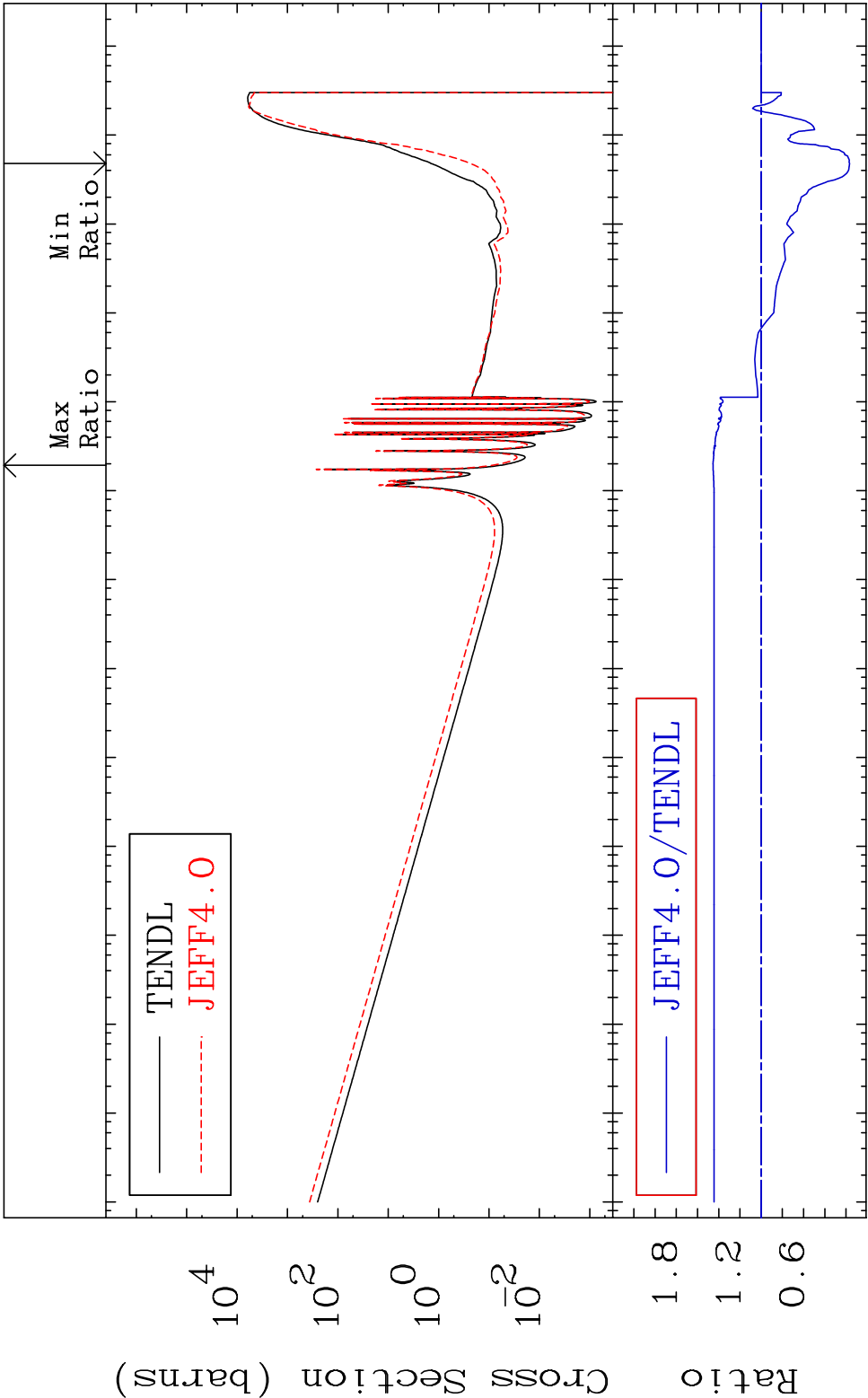


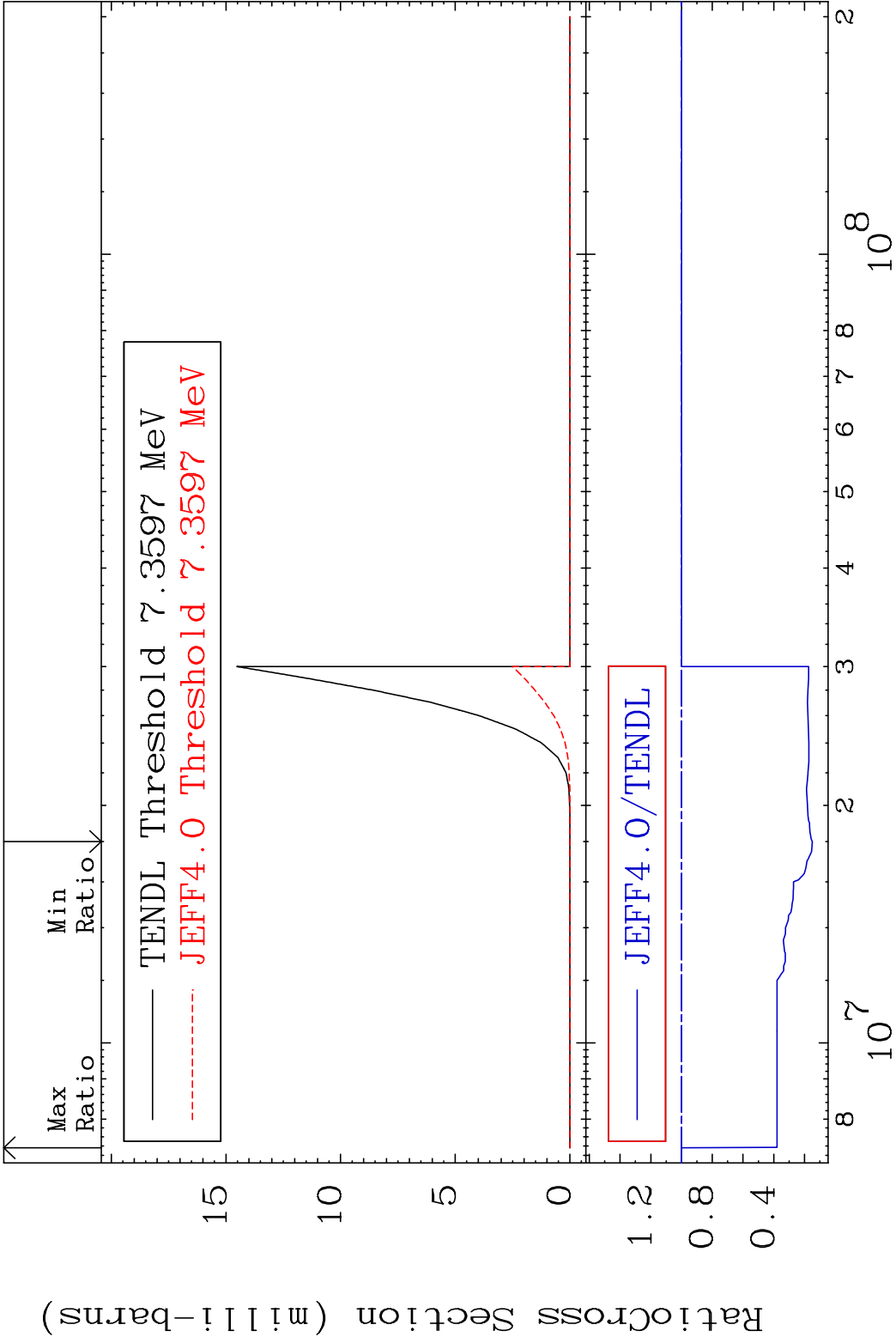
77 Incident Energy (eV) 58-Ce-142

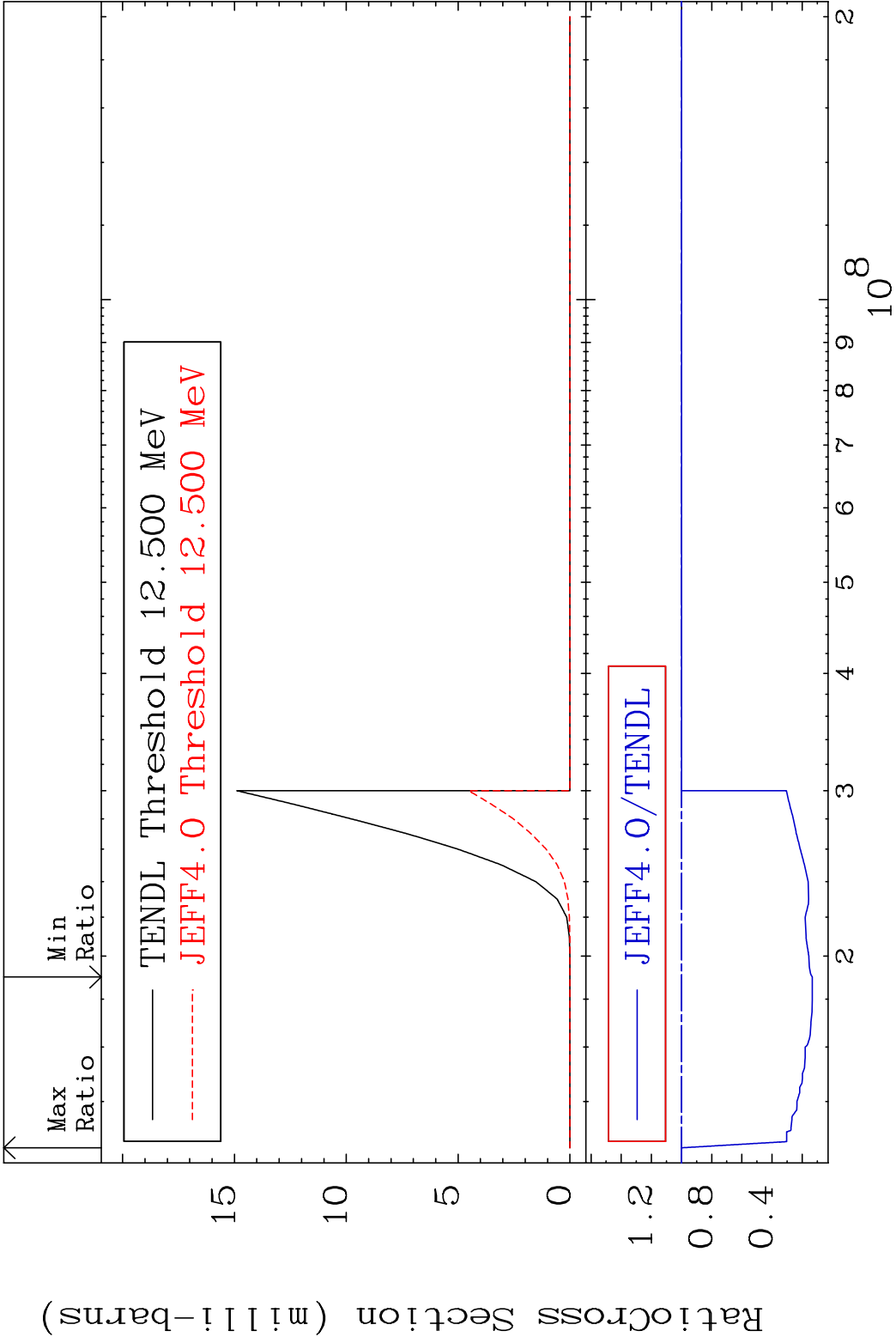
MAT 5843 Dpa inelastic (mt51-91) 58-Ce-142
Cross Section -8.159 To 30.03 %

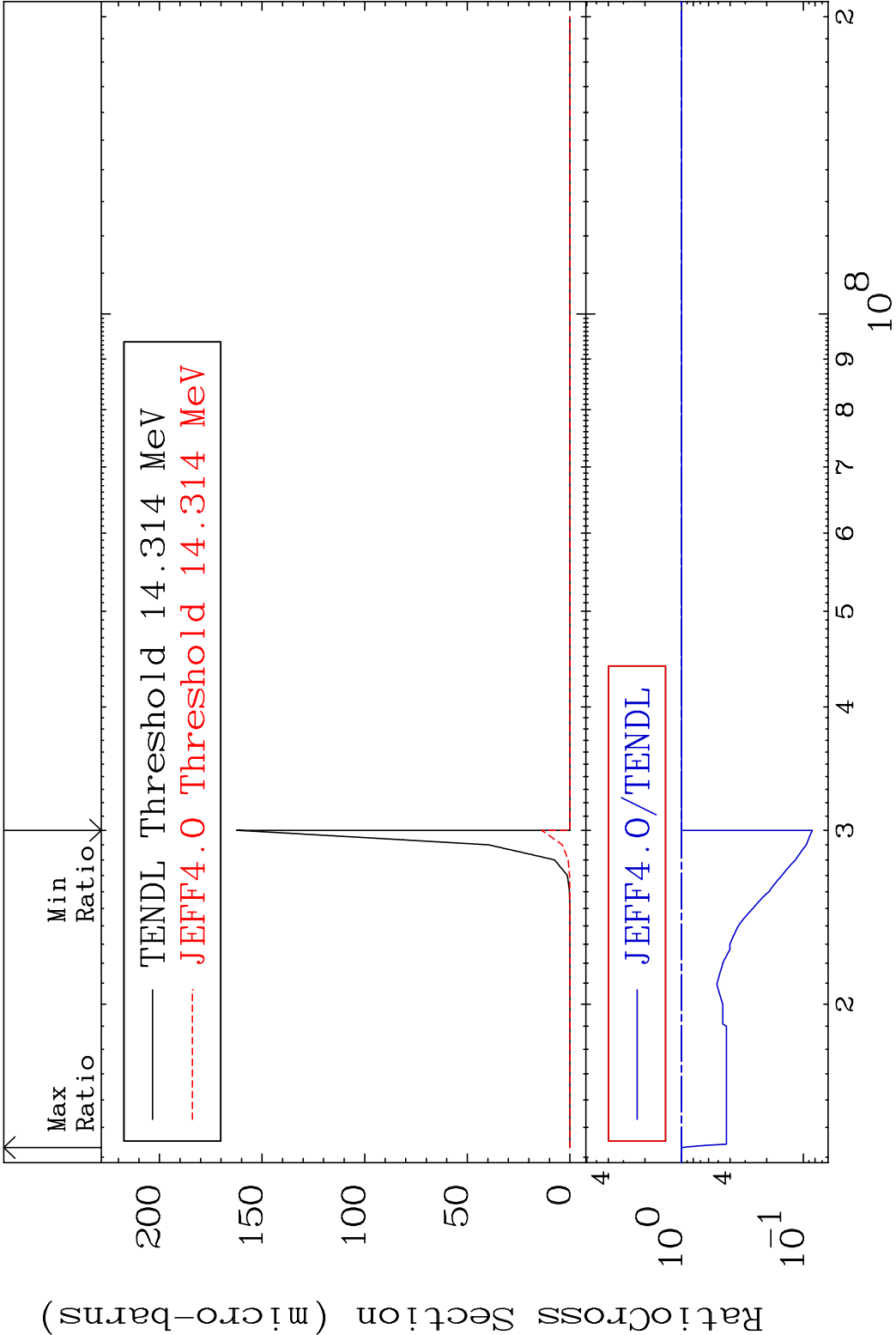


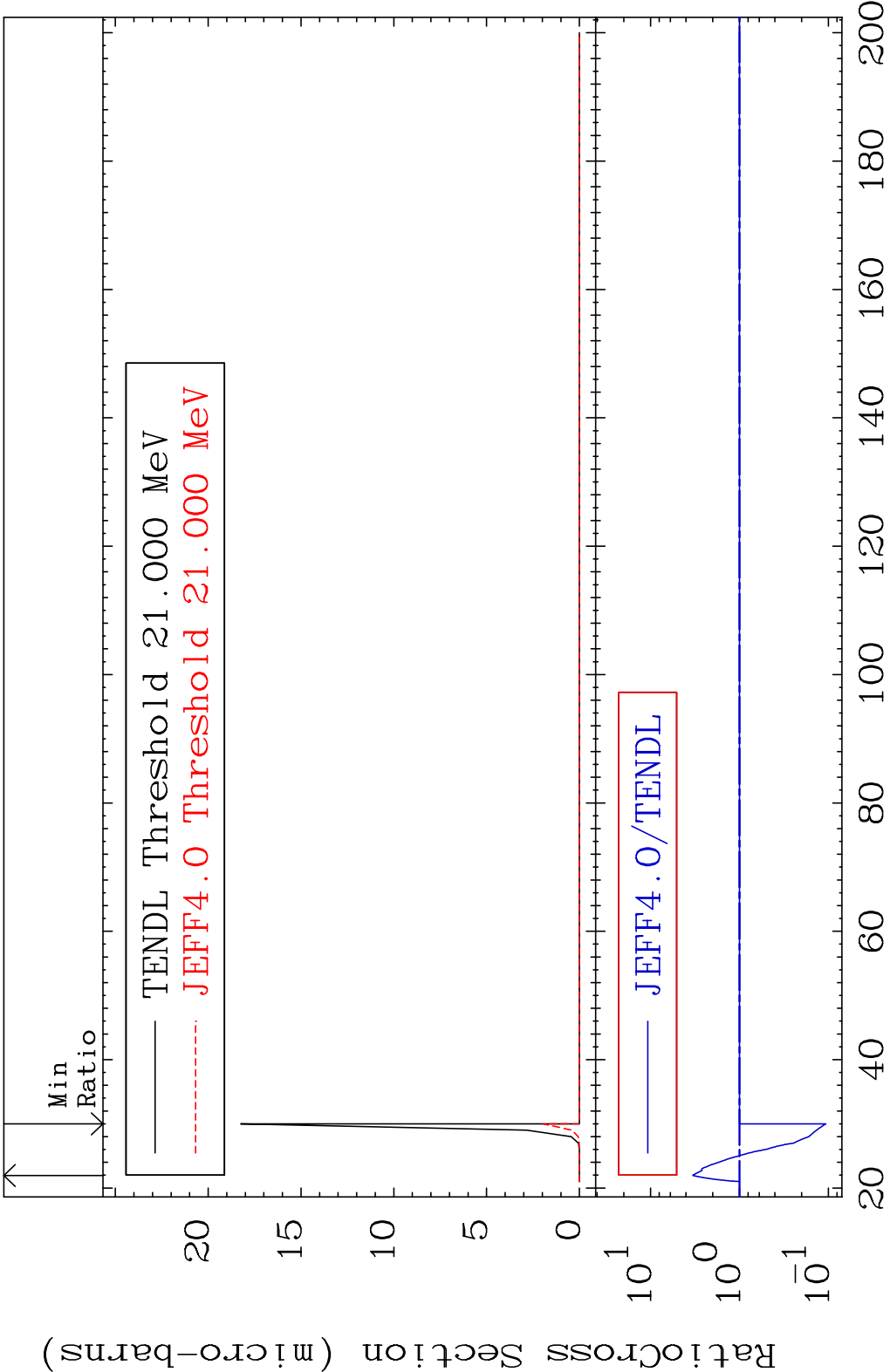
MAT 5843 Dpa disappearance (mt102 -120) 58-Ce-142
Cross Section -83.25 To 45.57 %

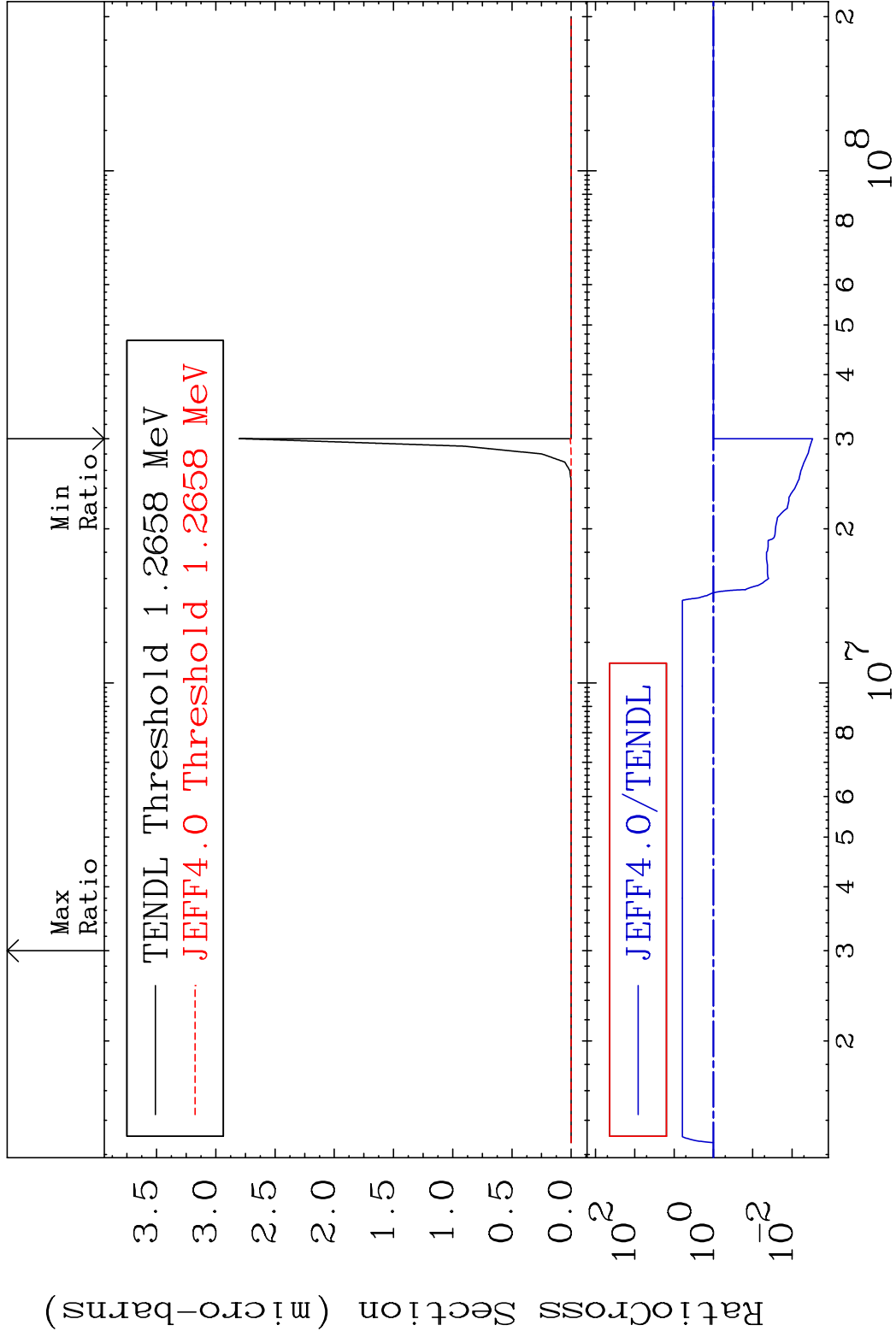


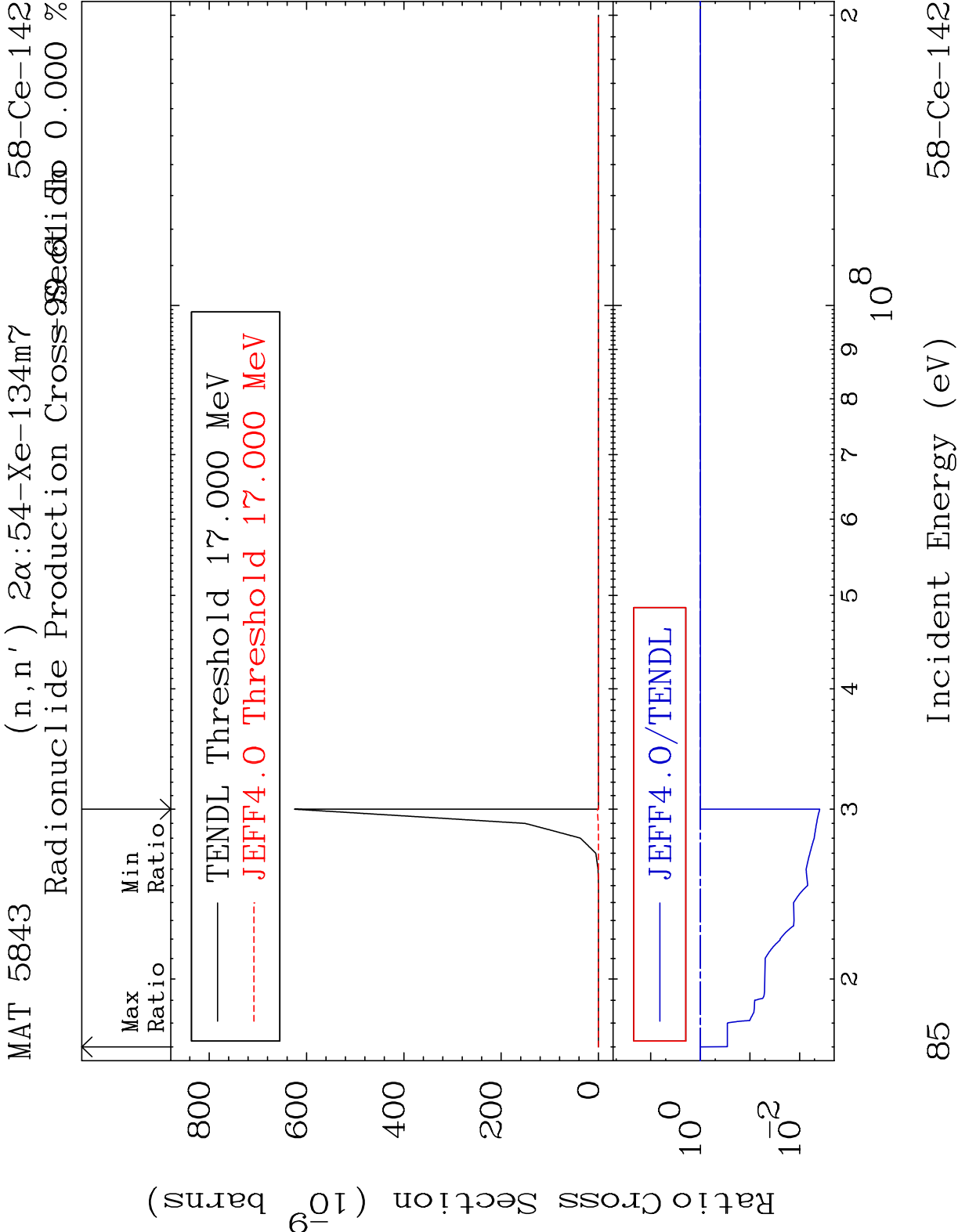












85

58-Ce-142

