

Program Complot
(Version 2021-1)

by

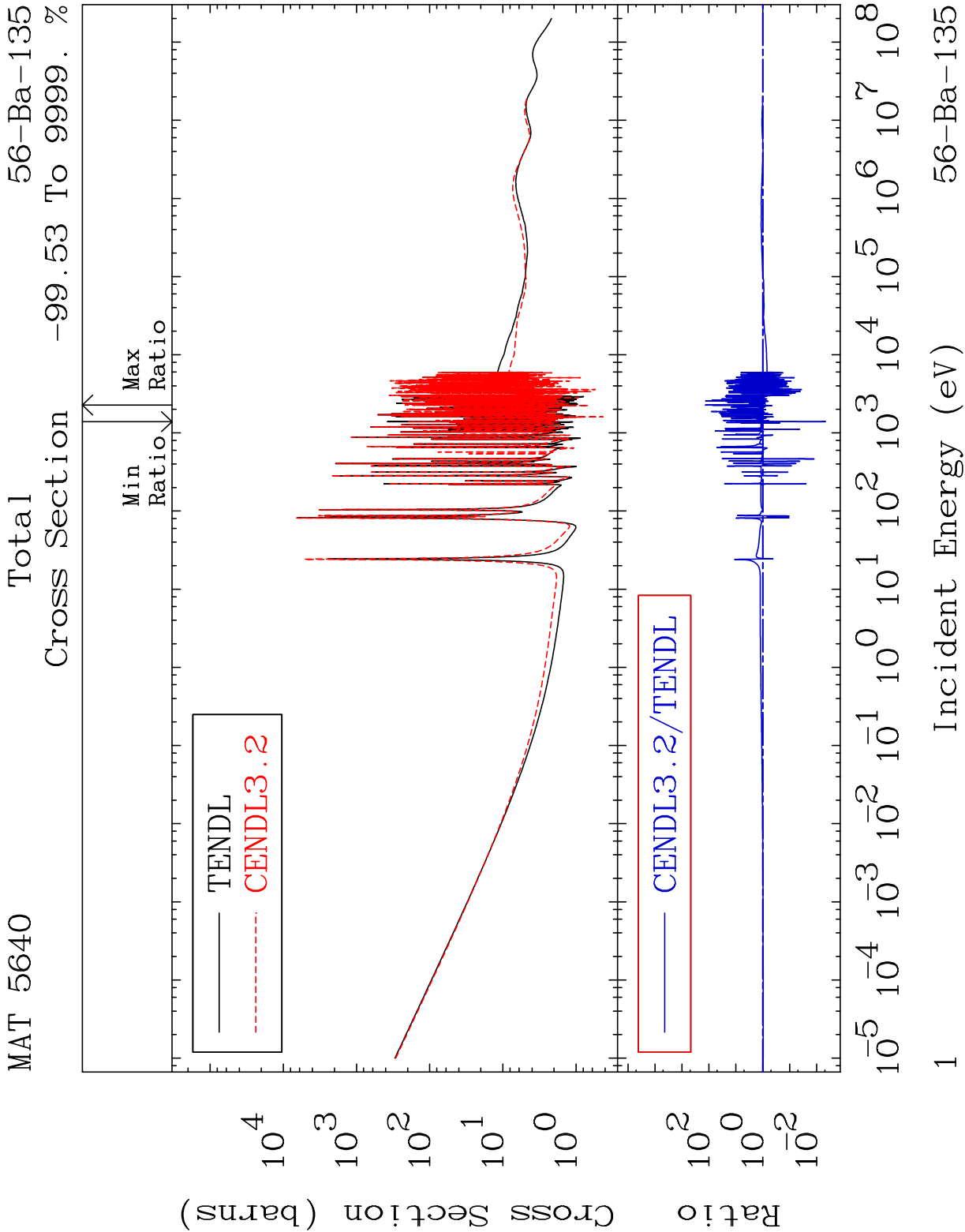
Dermott E. Cullen
(Present Contact Information)

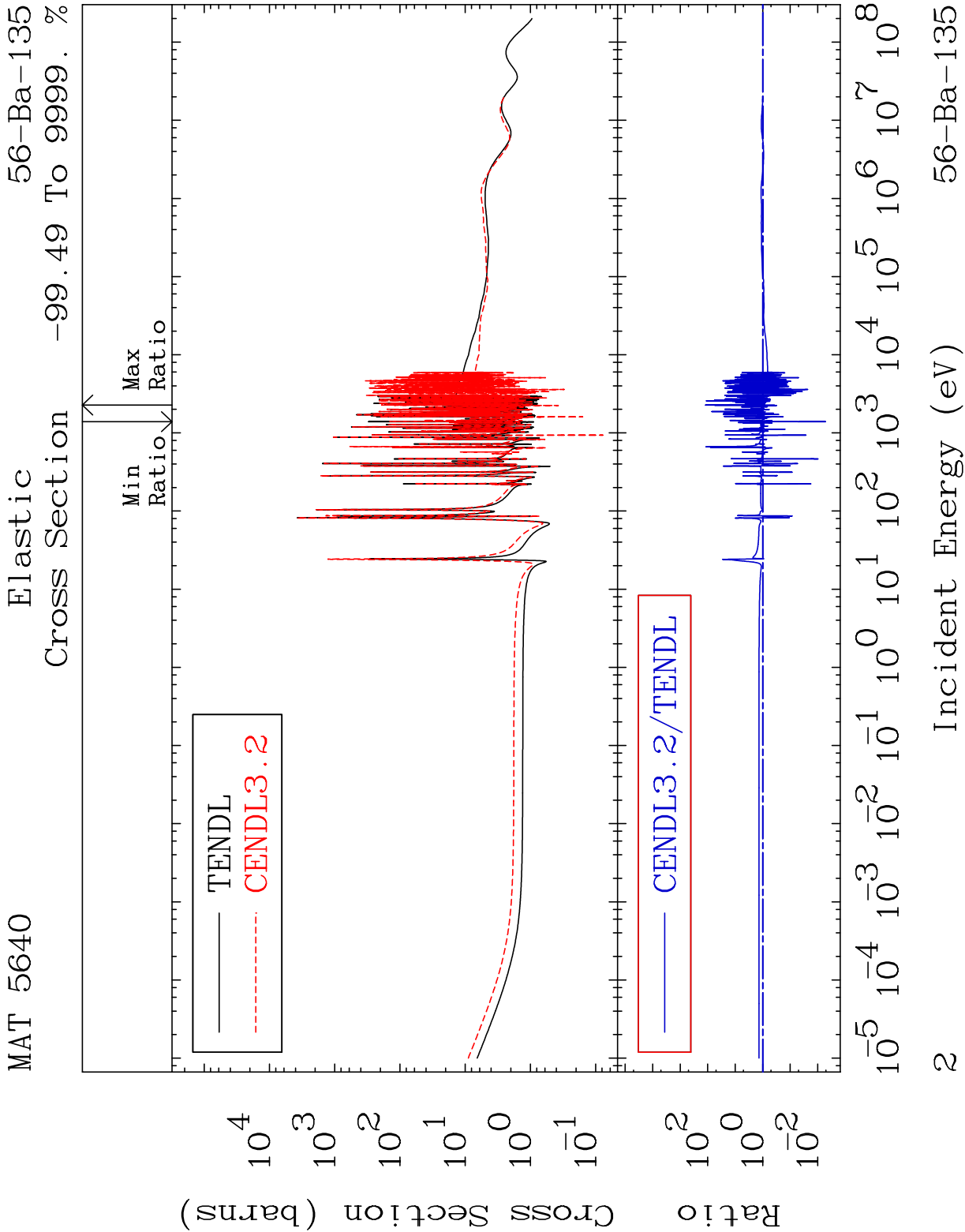
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

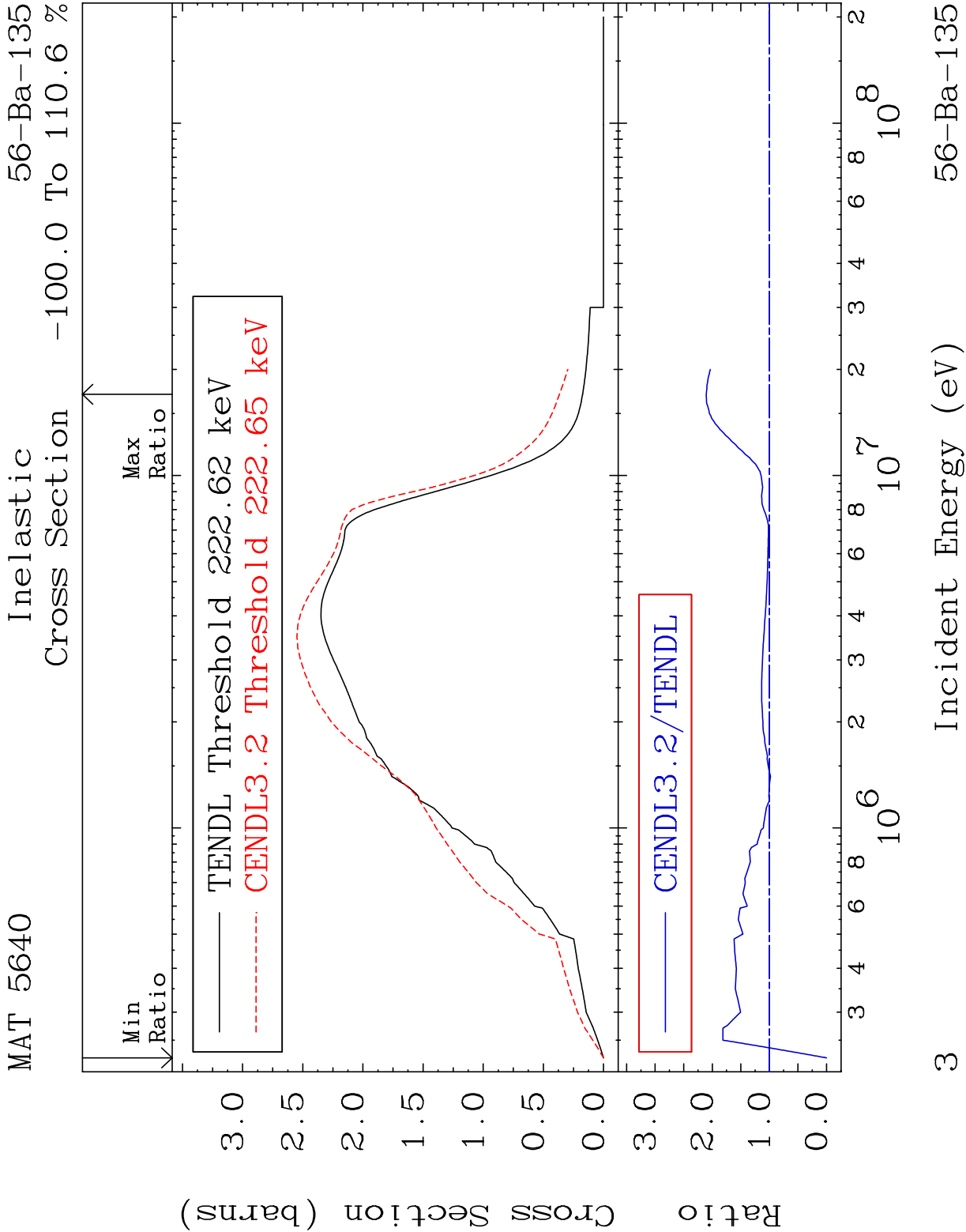
Tele: 925-443-1911

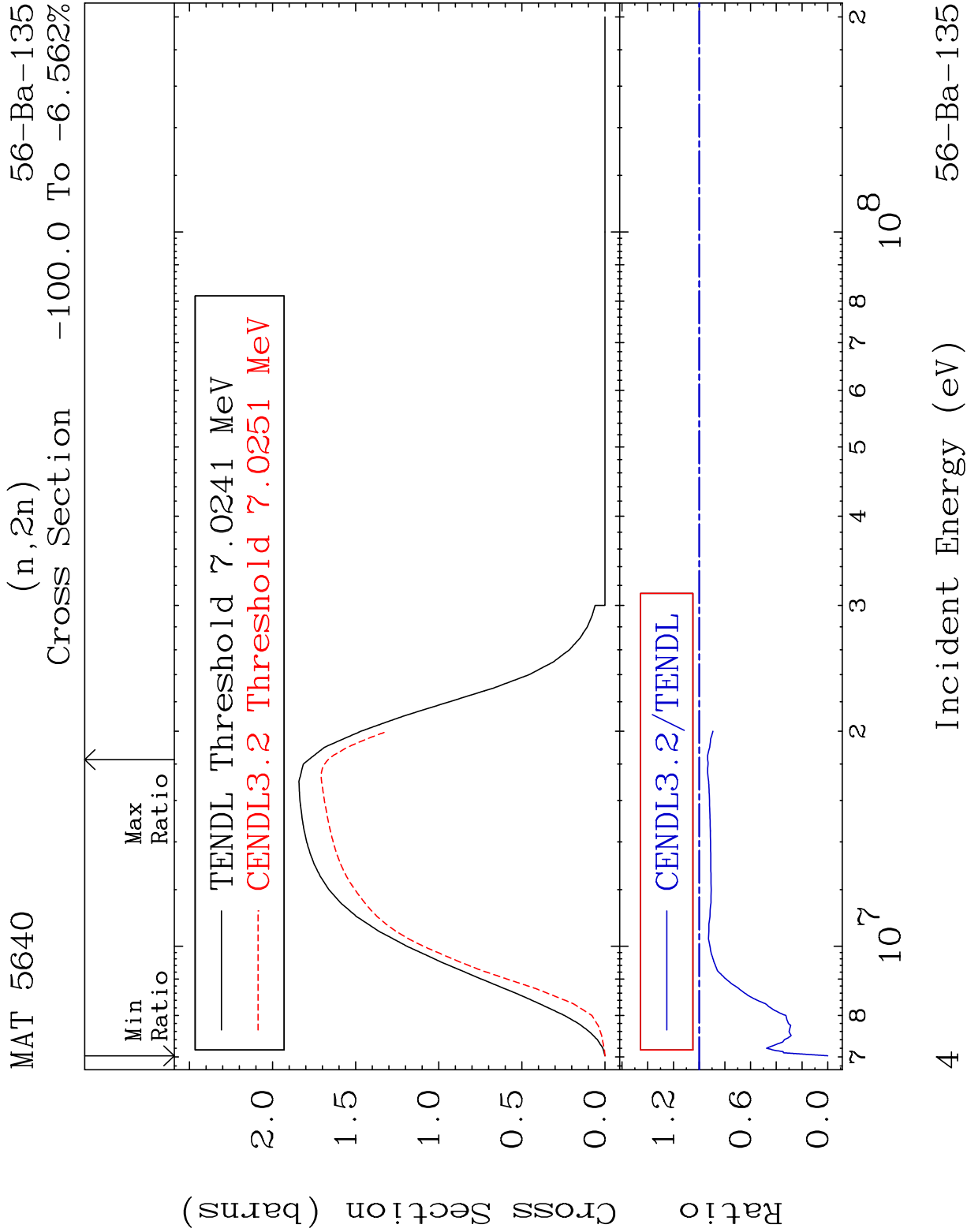
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

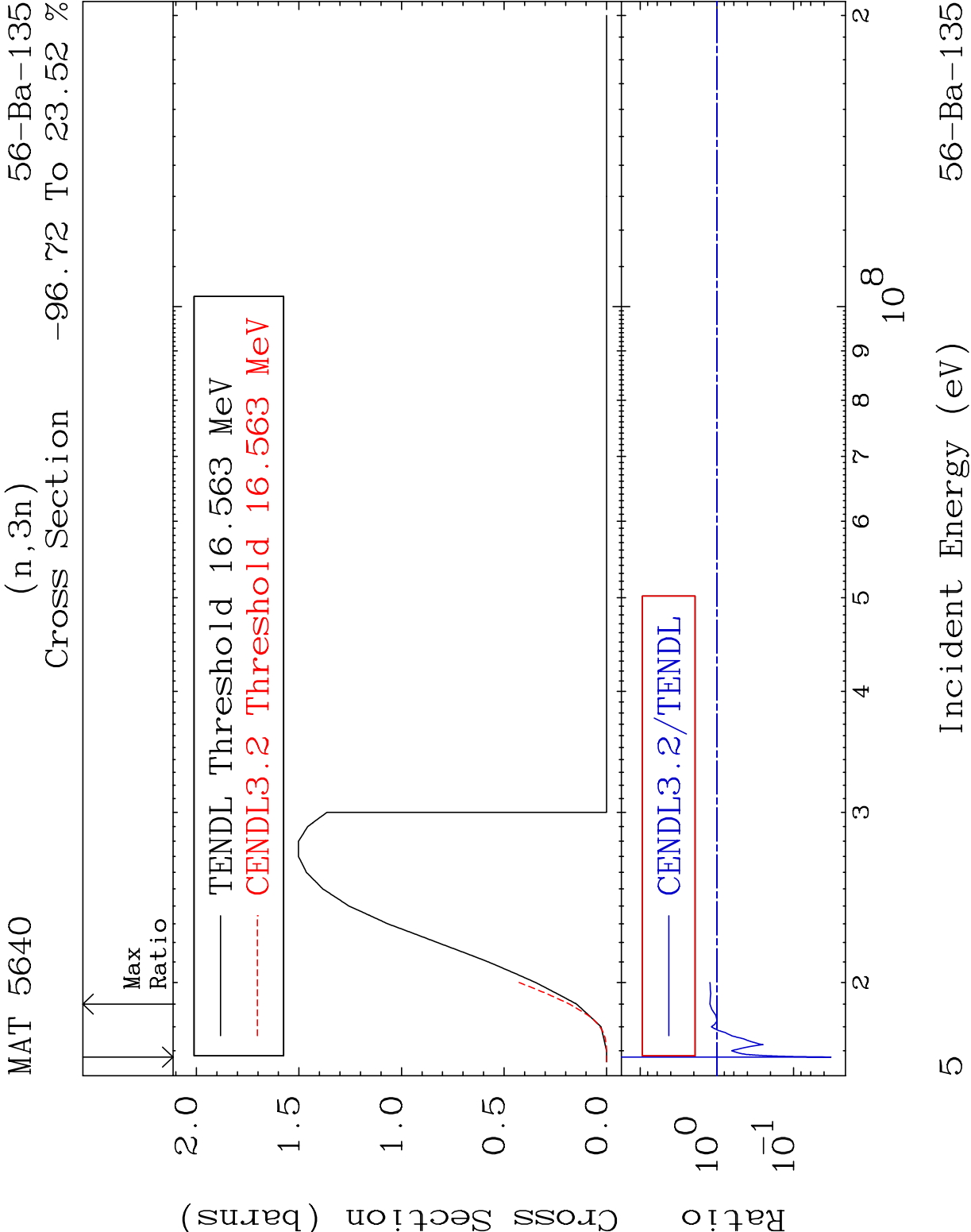
Press Mouse Button to Start

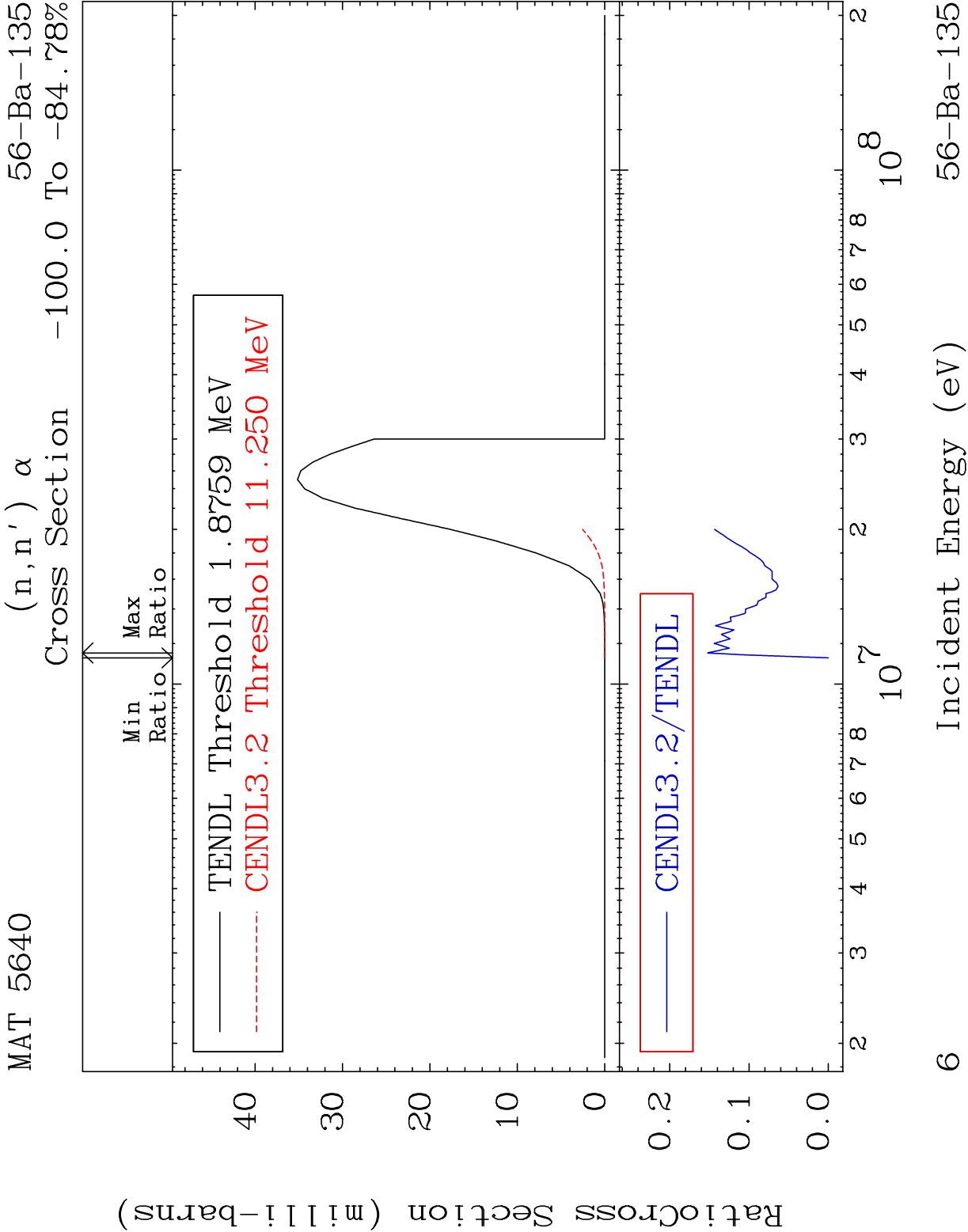


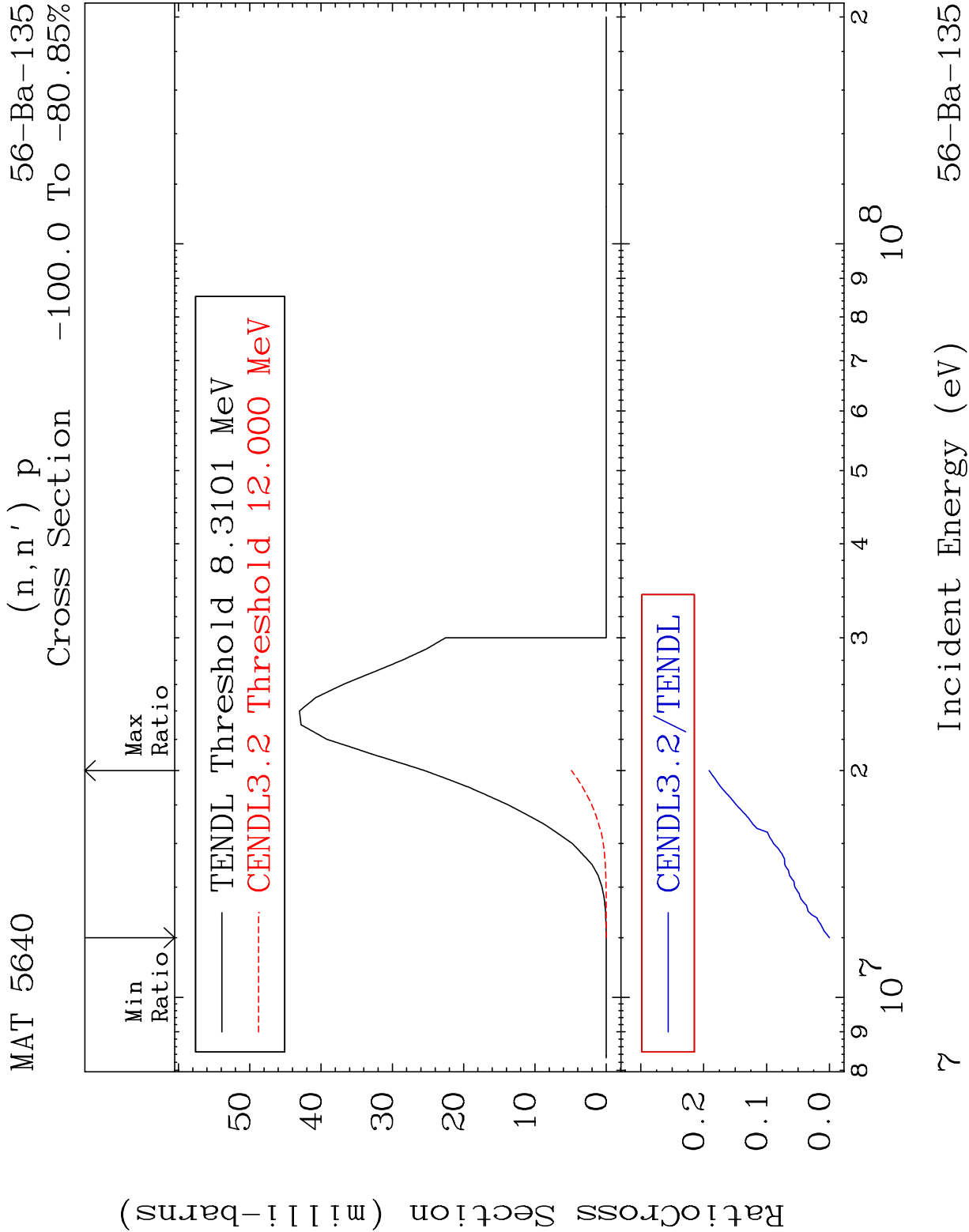




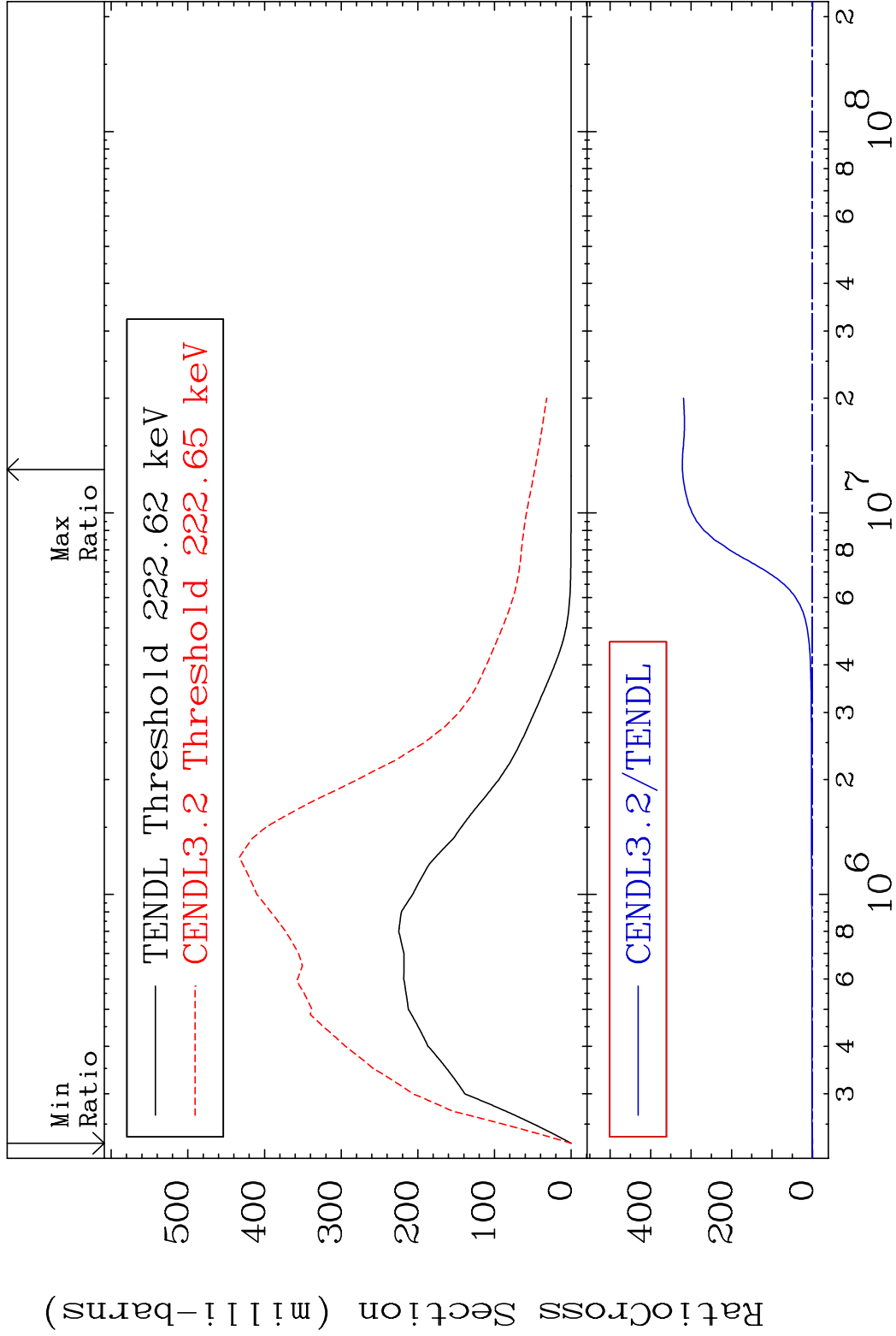




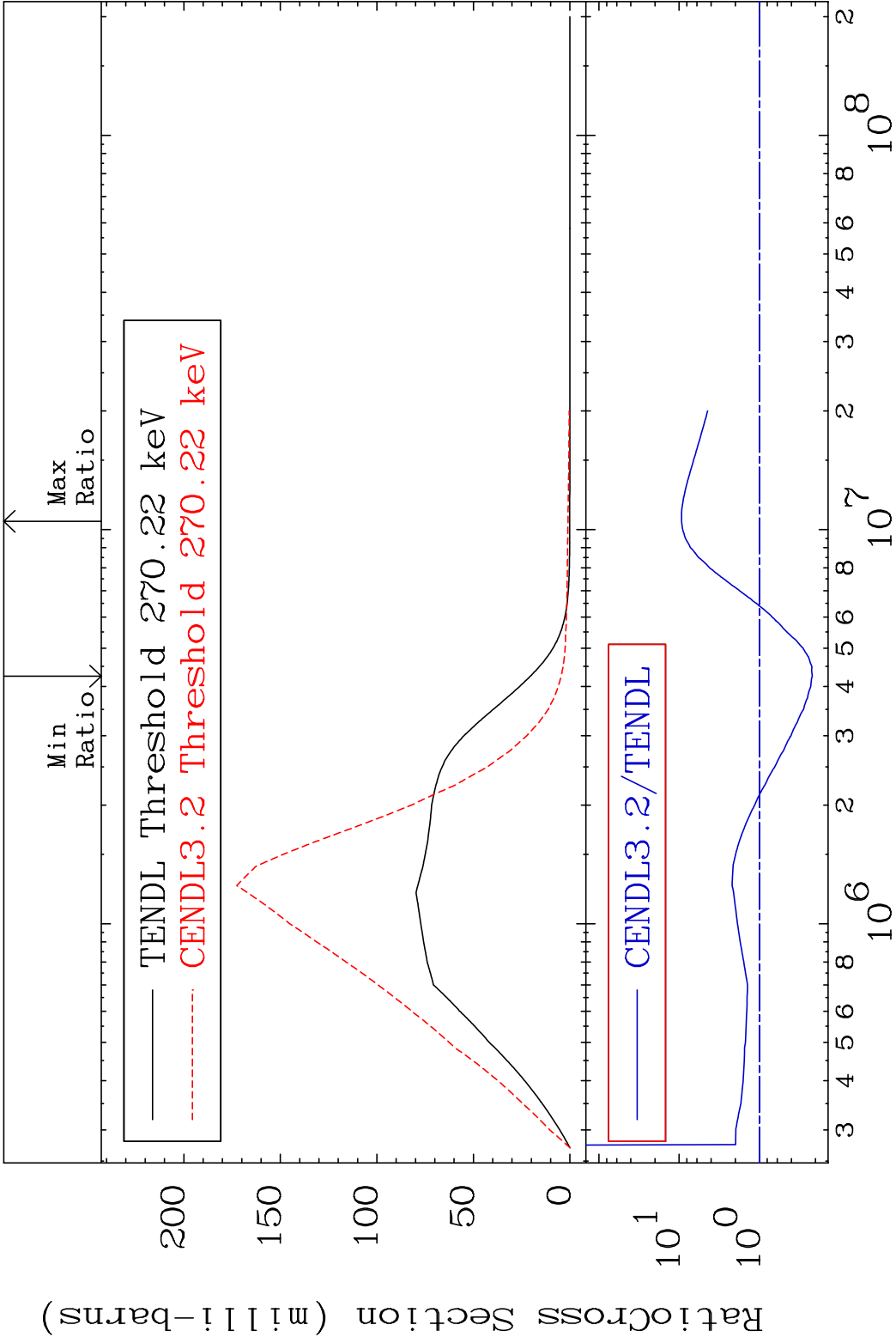


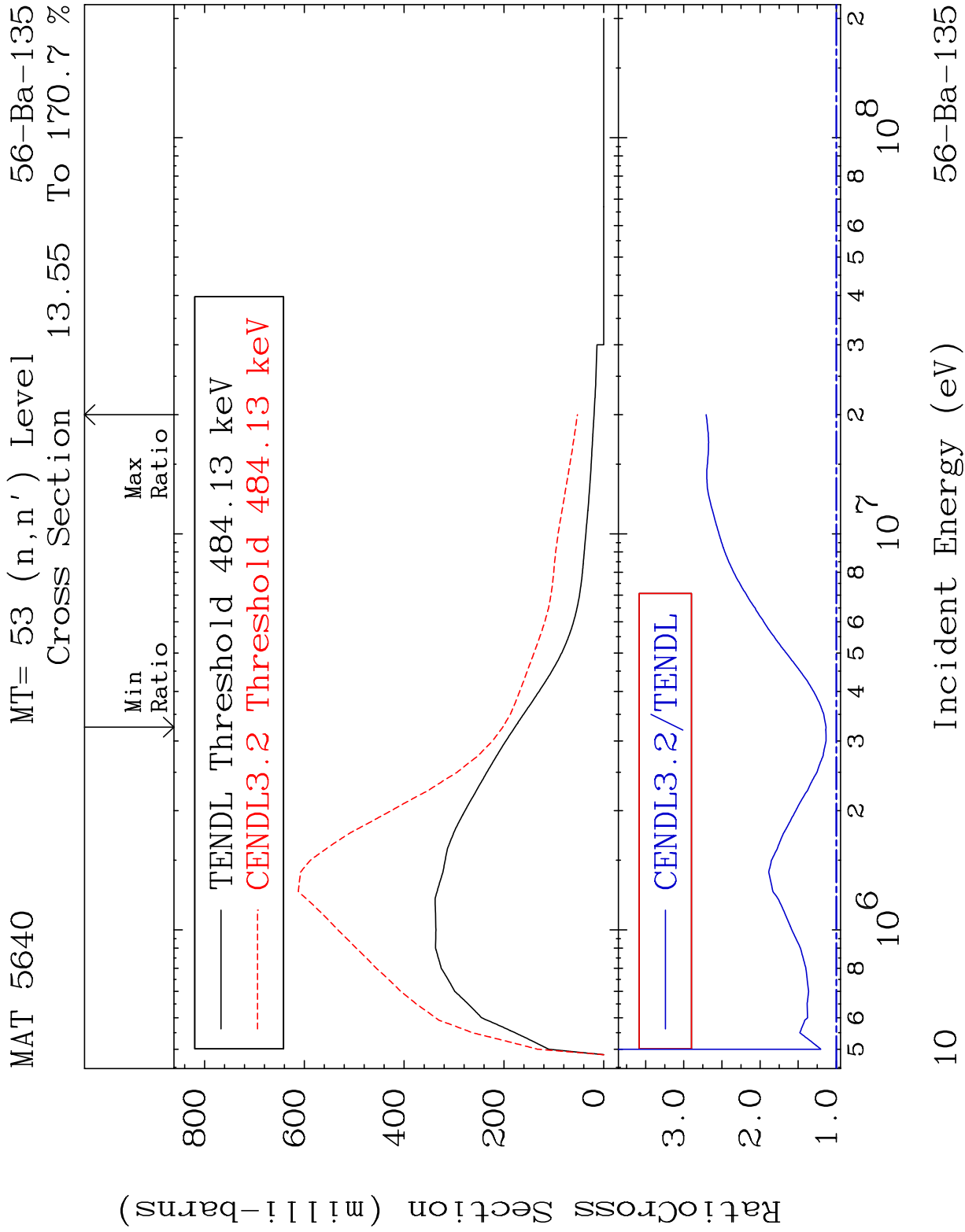


MAT 5640 MT= 51 (n,n') Level 56-Ba-135
Cross Section -100.0 To 9999. %

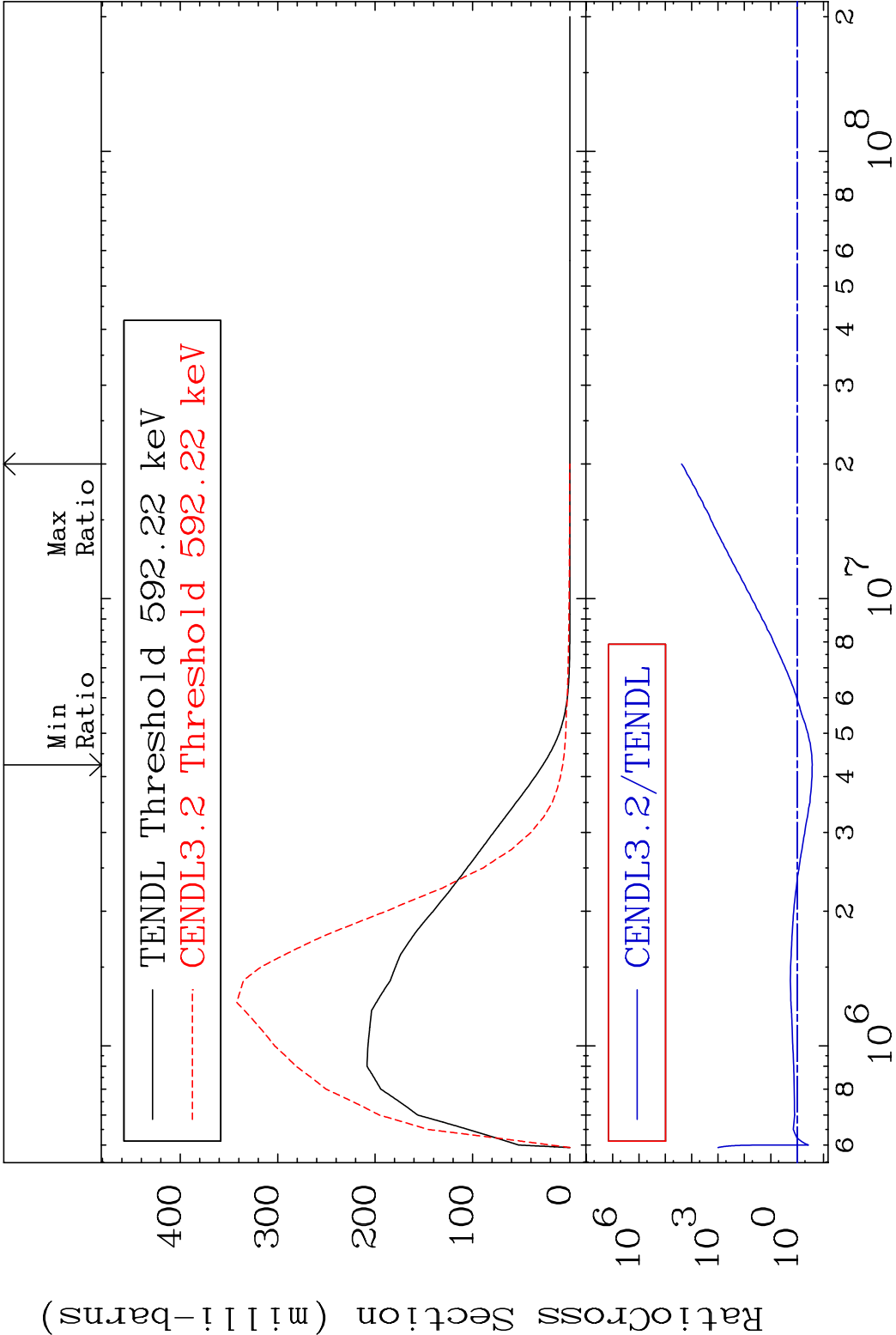


MAT 5640 MT= 52 (n,n') Level 56-Ba-135
Cross Section -78.01 To 834.0 %

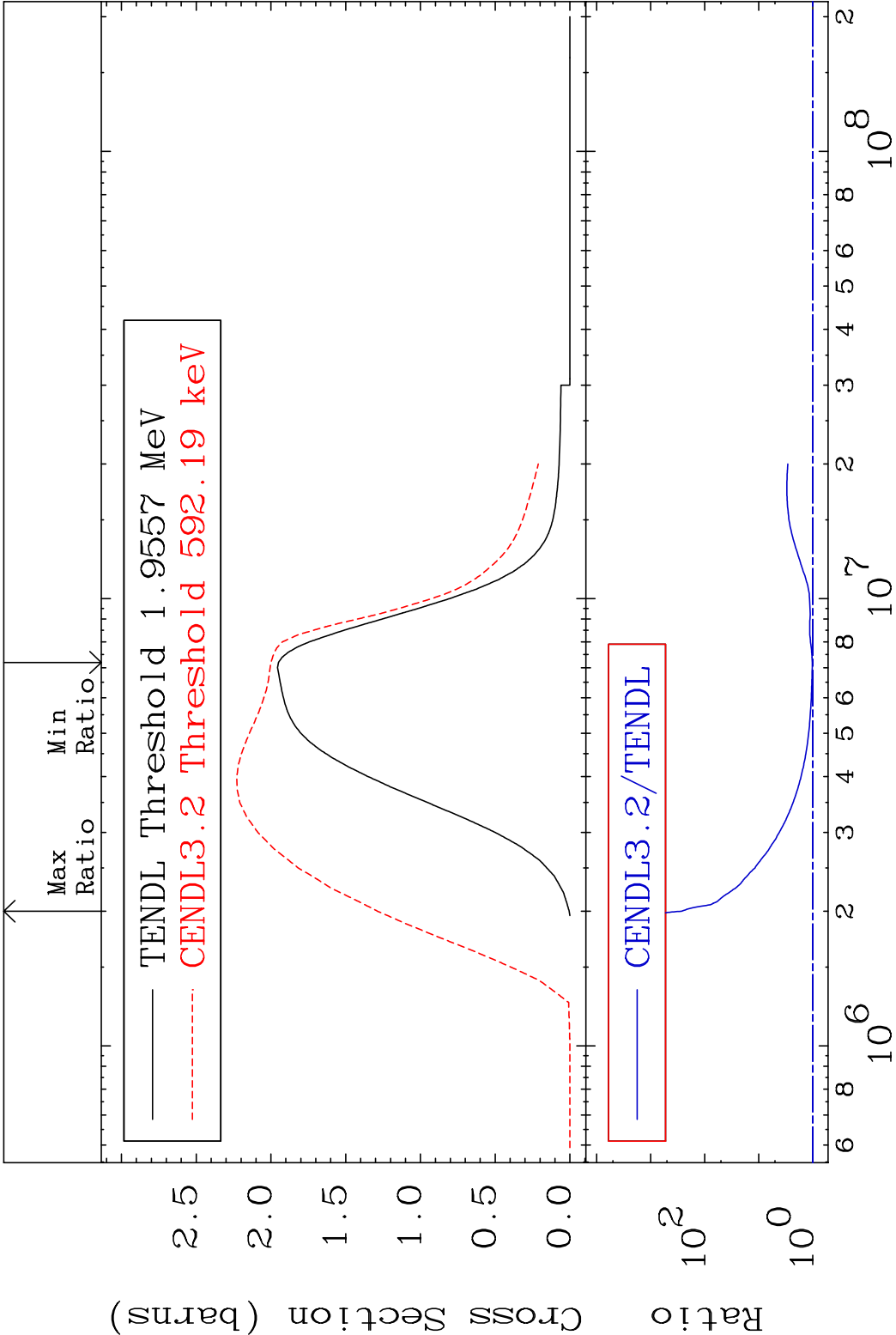




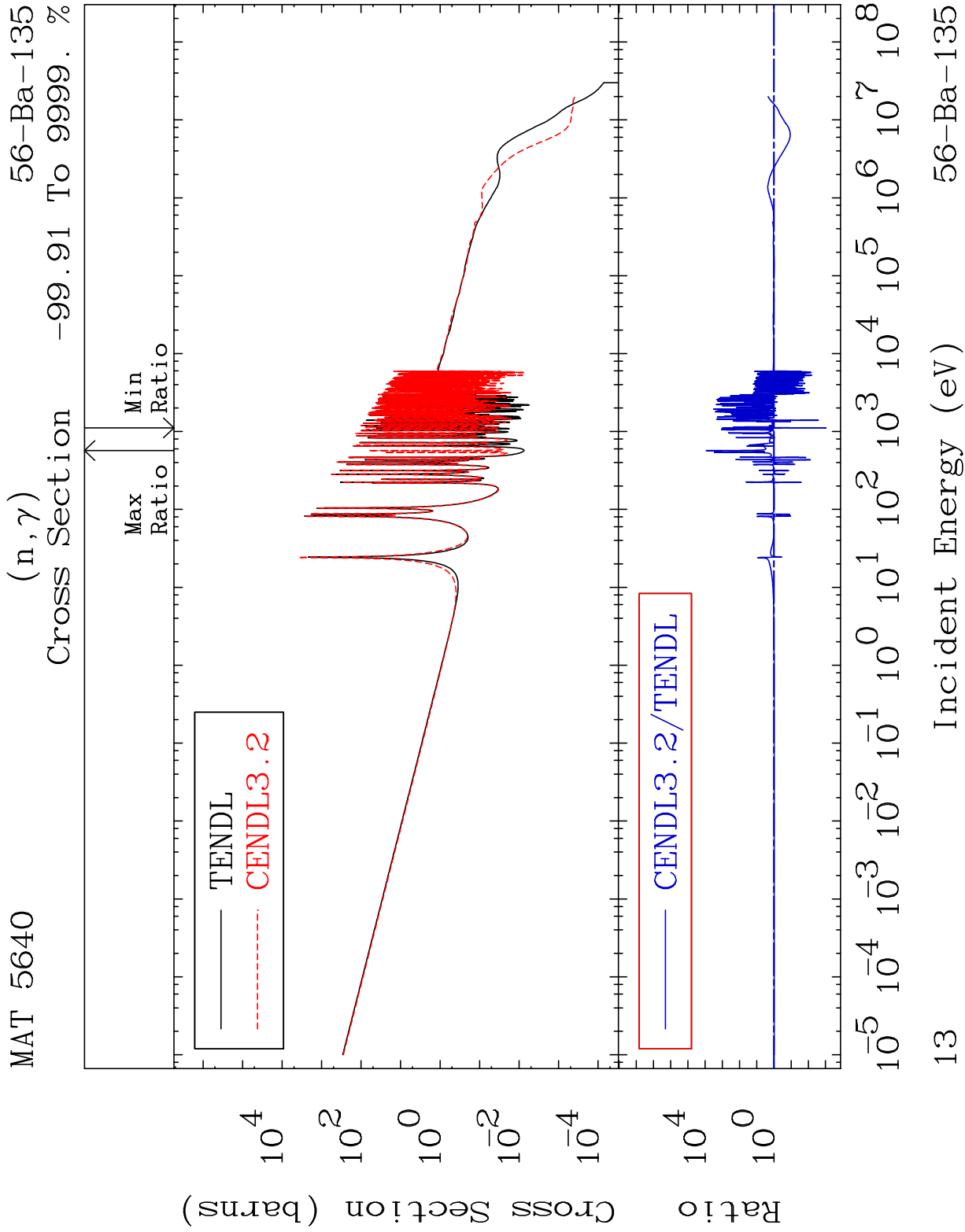
MAT 5640	MT= 54 (n,n')	Level	56-Ba-135
	Cross Section	-73.25 To 9999. %	

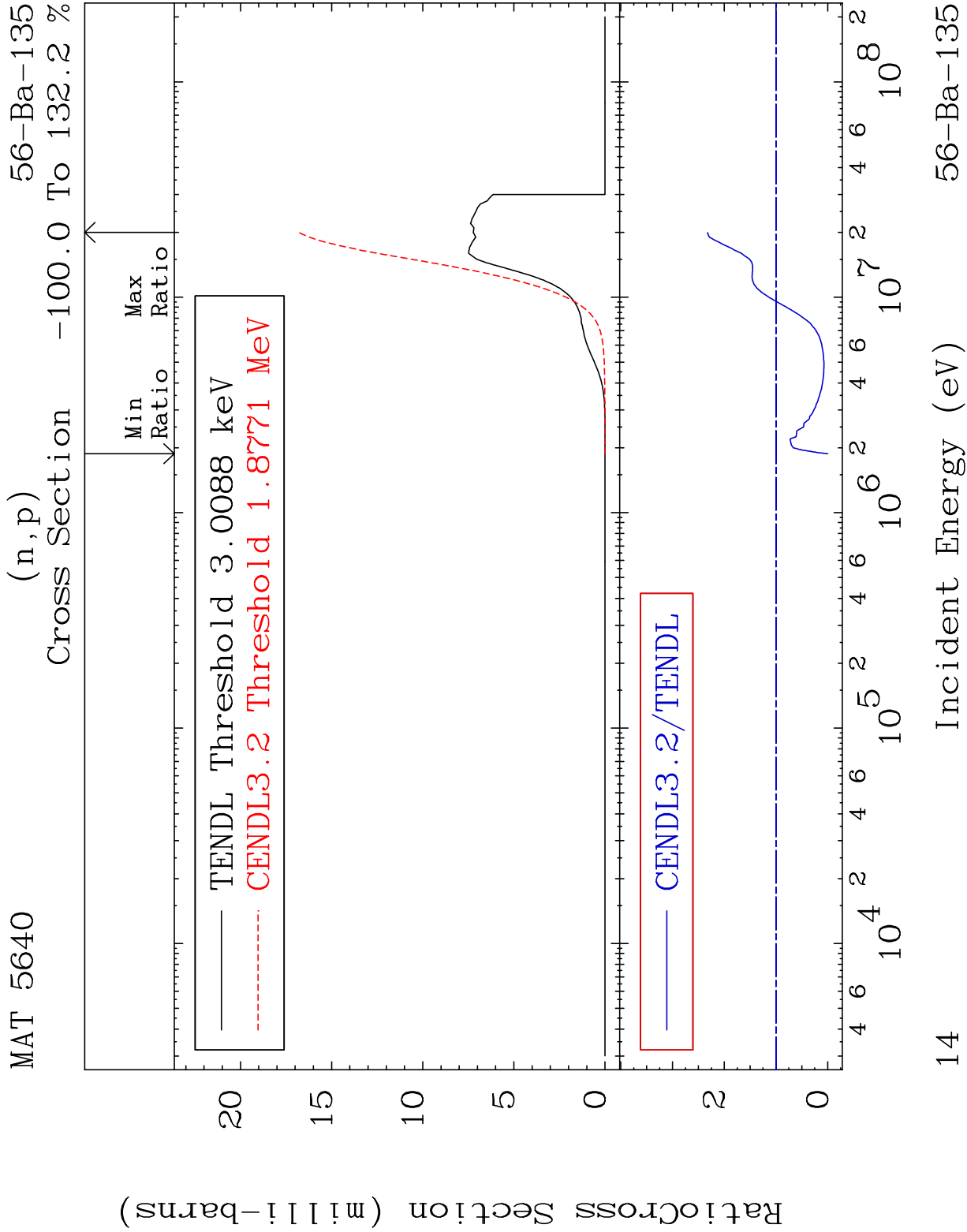


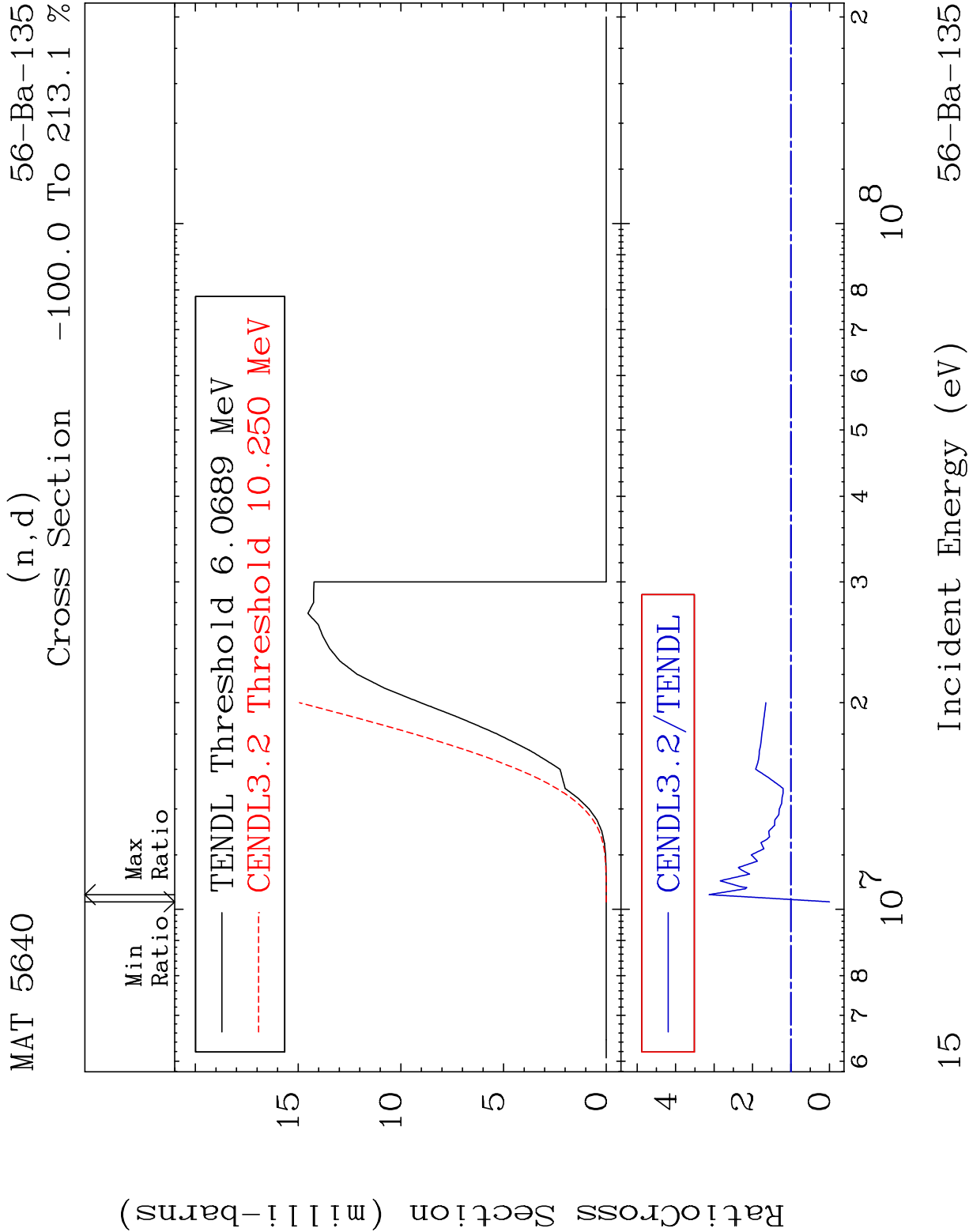
MAT 5640 (n,n') Continuum 56-Ba-135
Cross Section 2.503 To 9999. %

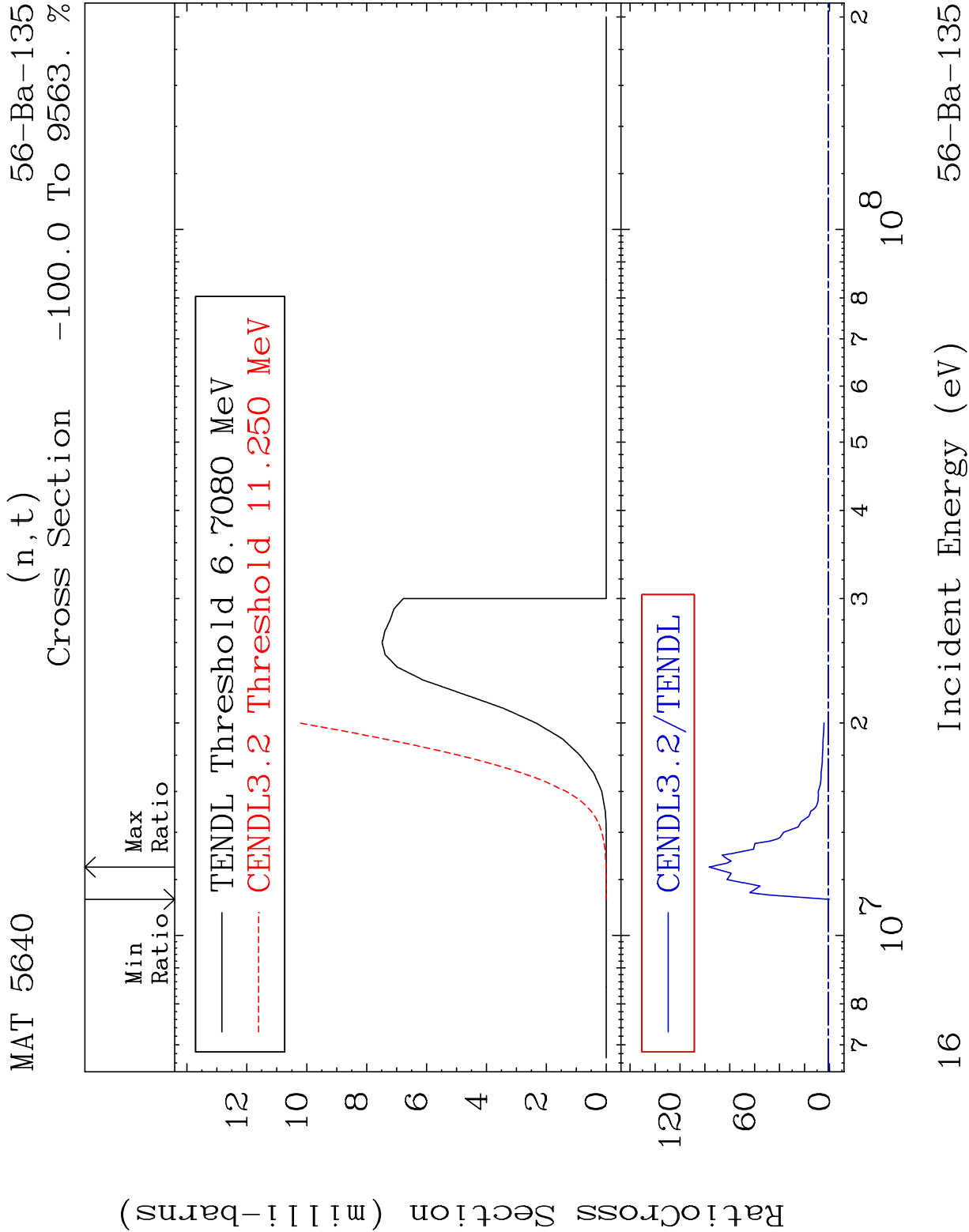


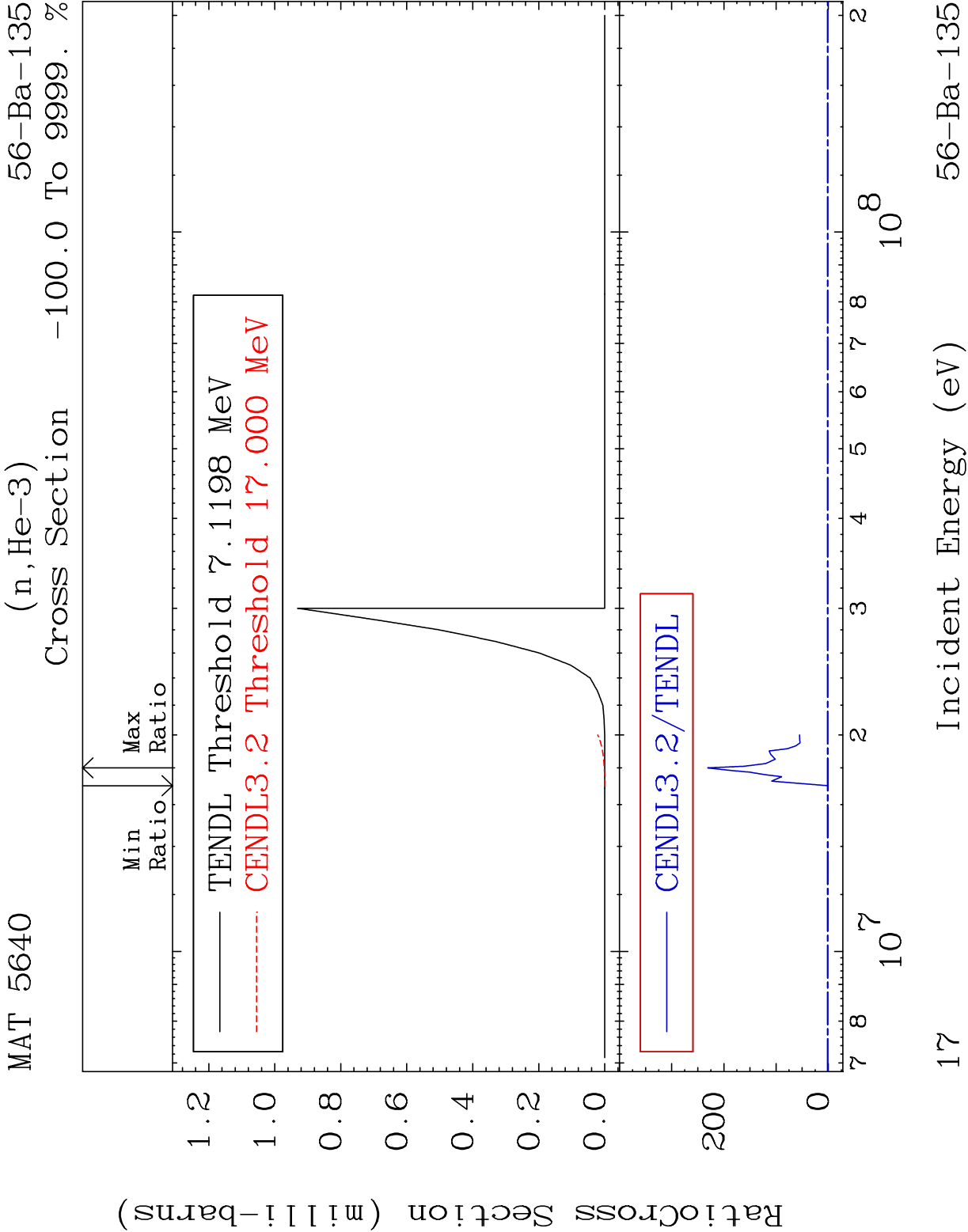
12 Incident Energy (eV) 56-Ba-135

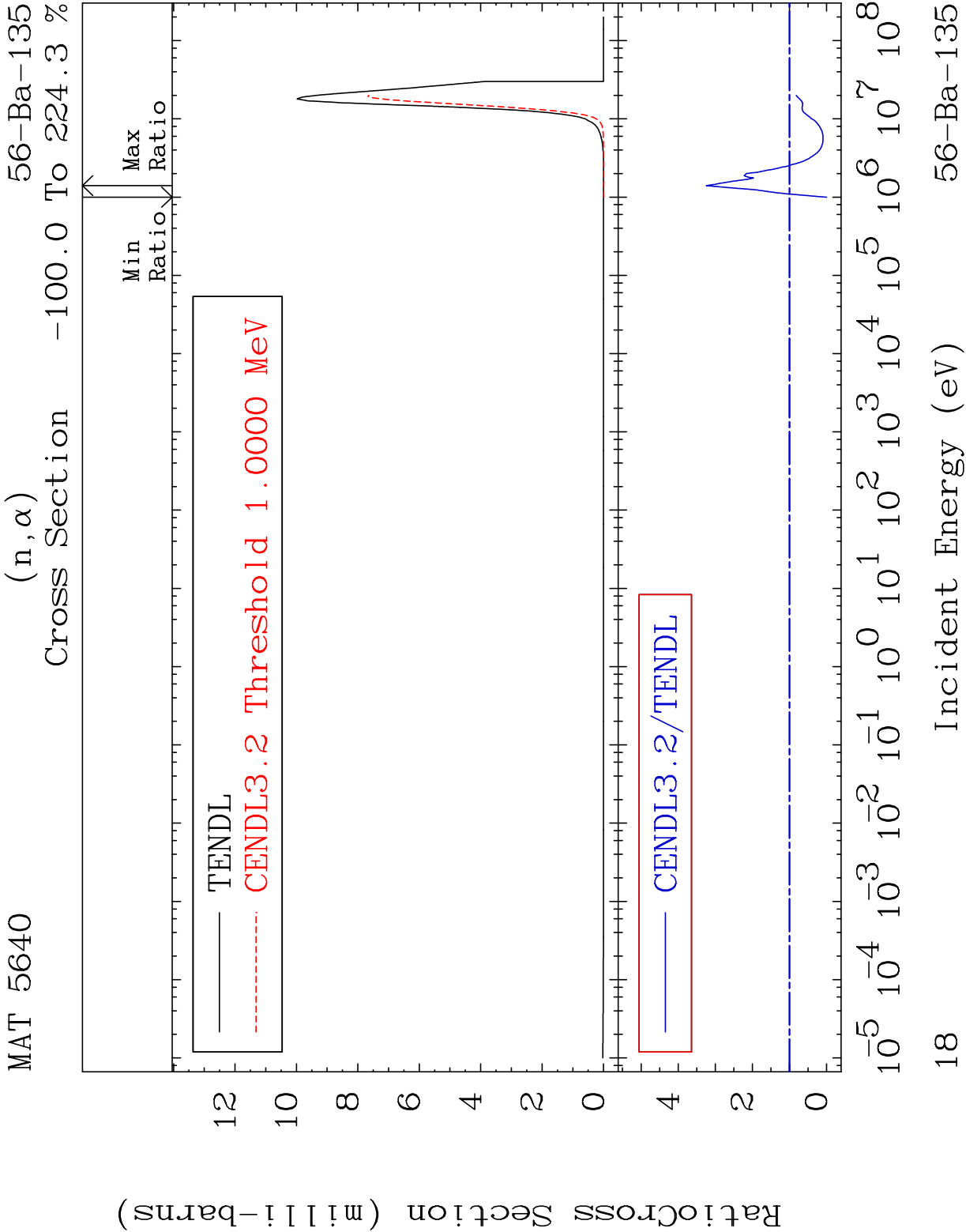


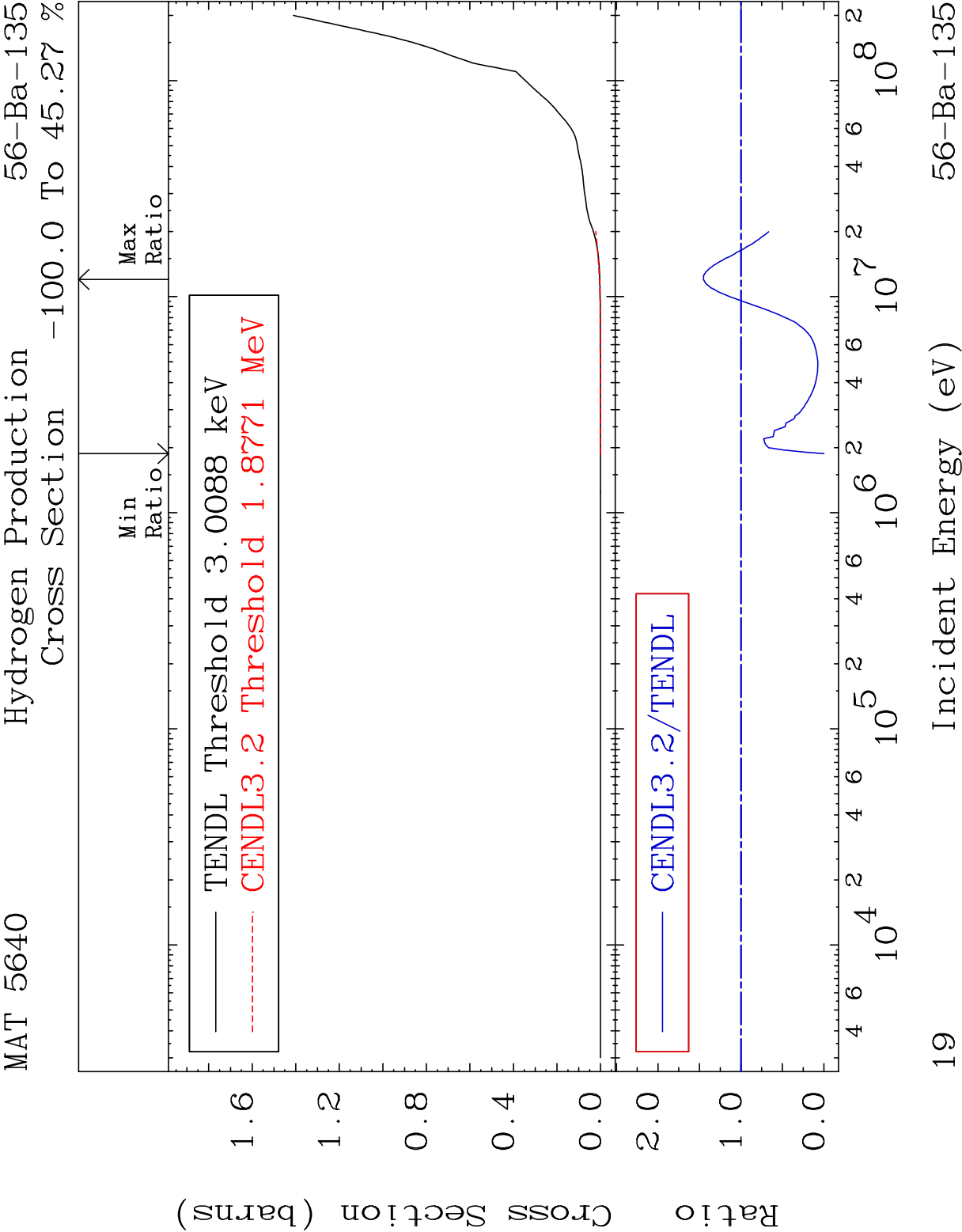




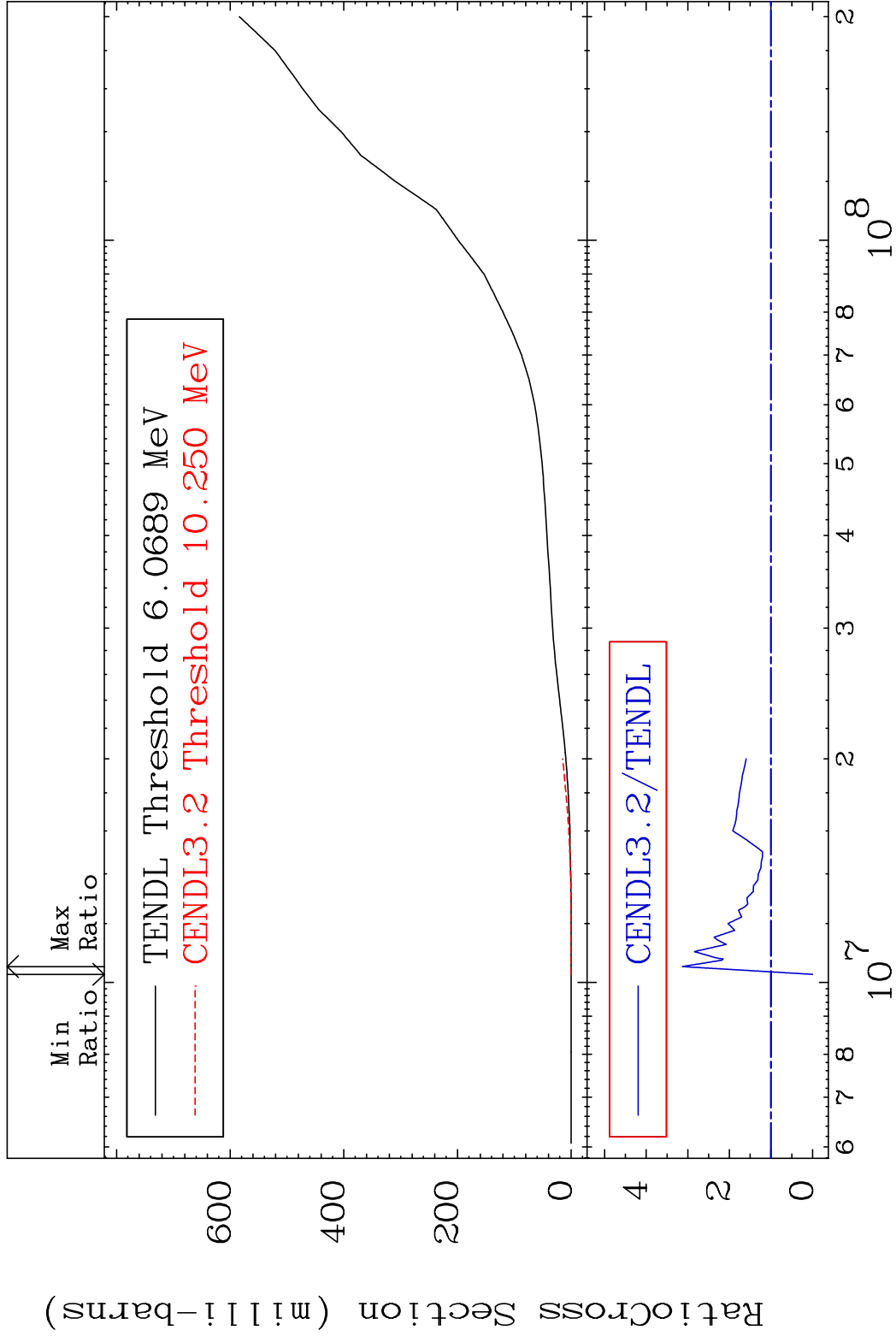




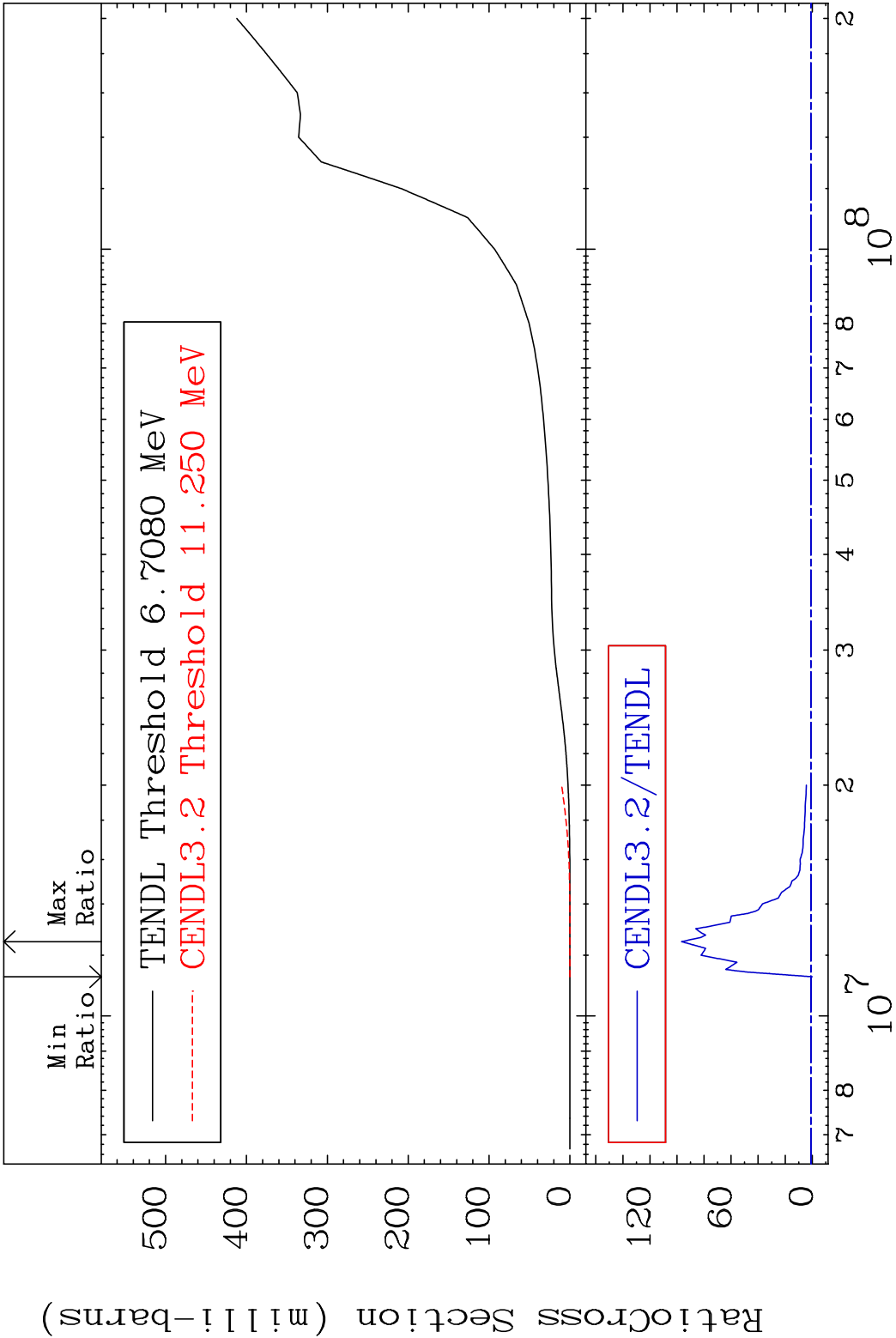


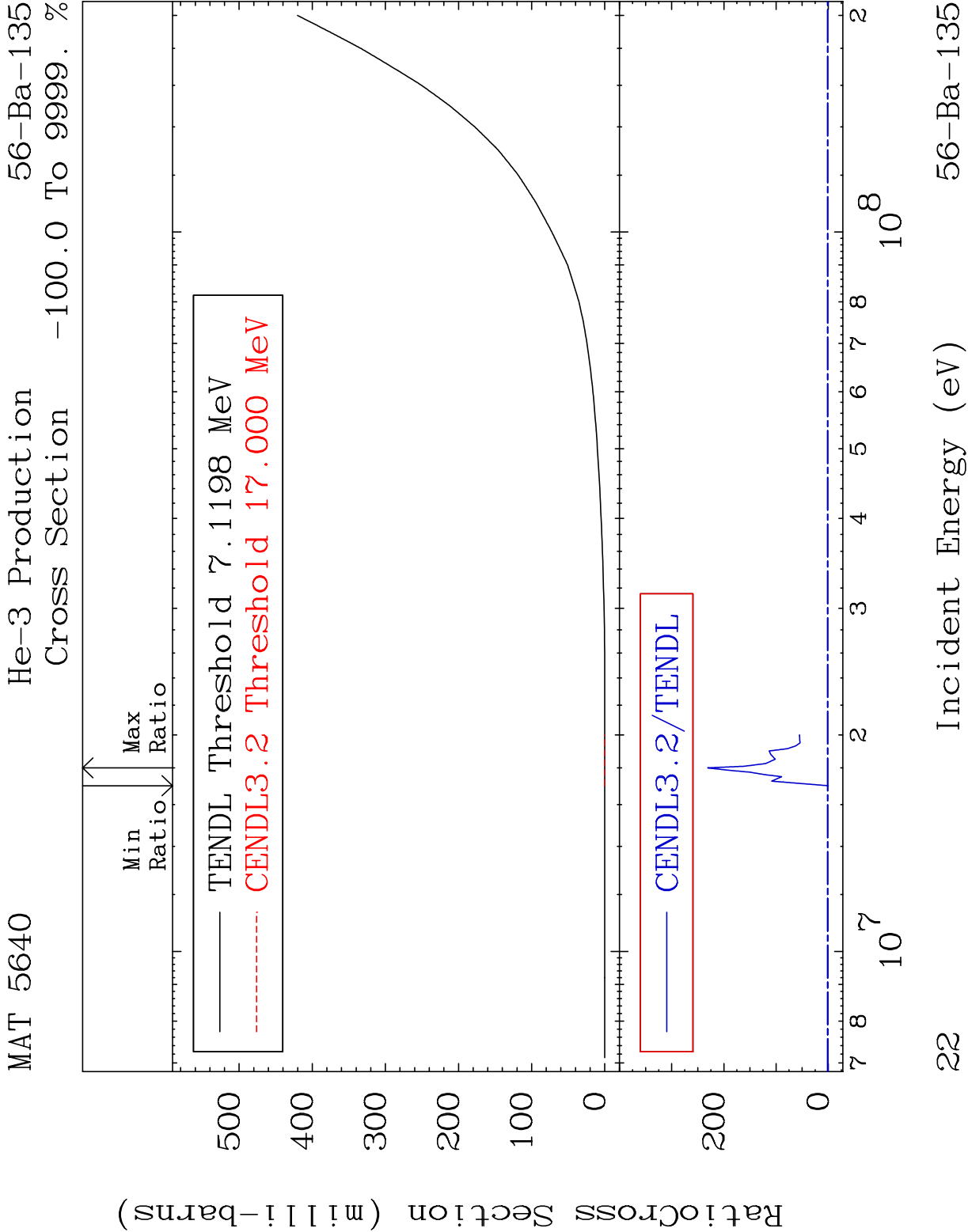


MAT 5640 Deuterium Production 56-Ba-135
Cross Section -100.0 To 213.1 %

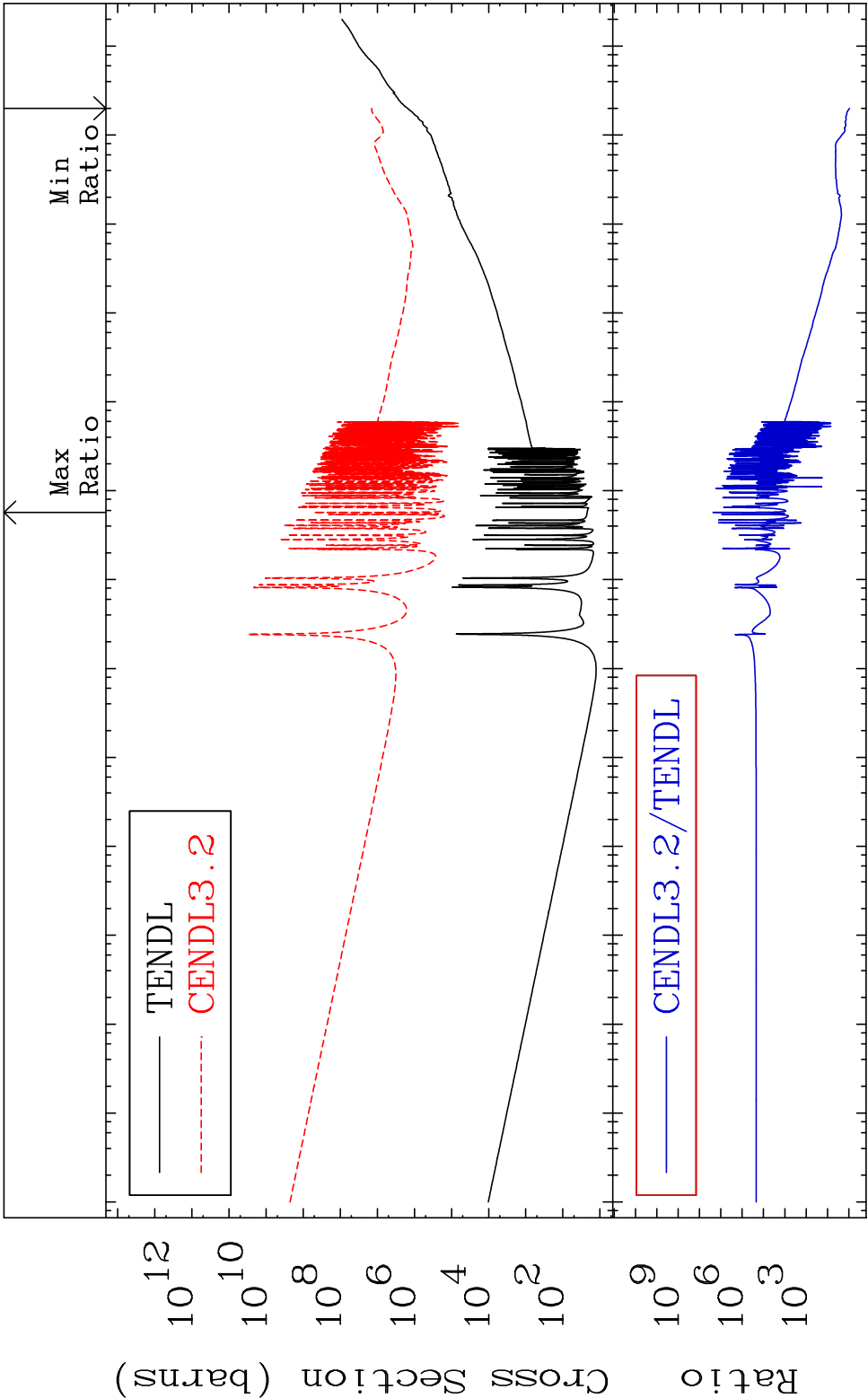


20 Incident Energy (eV) 56-Ba-135

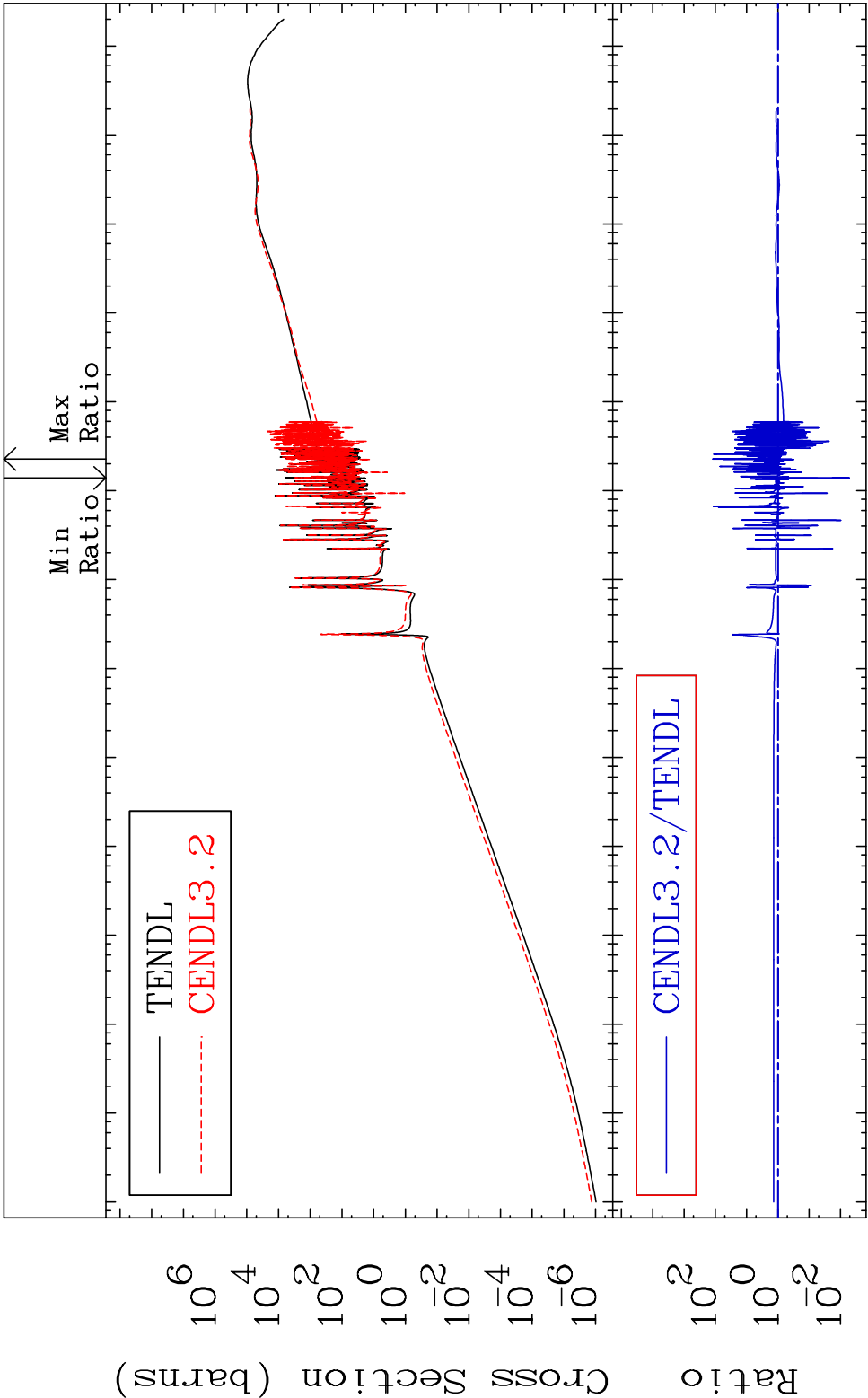




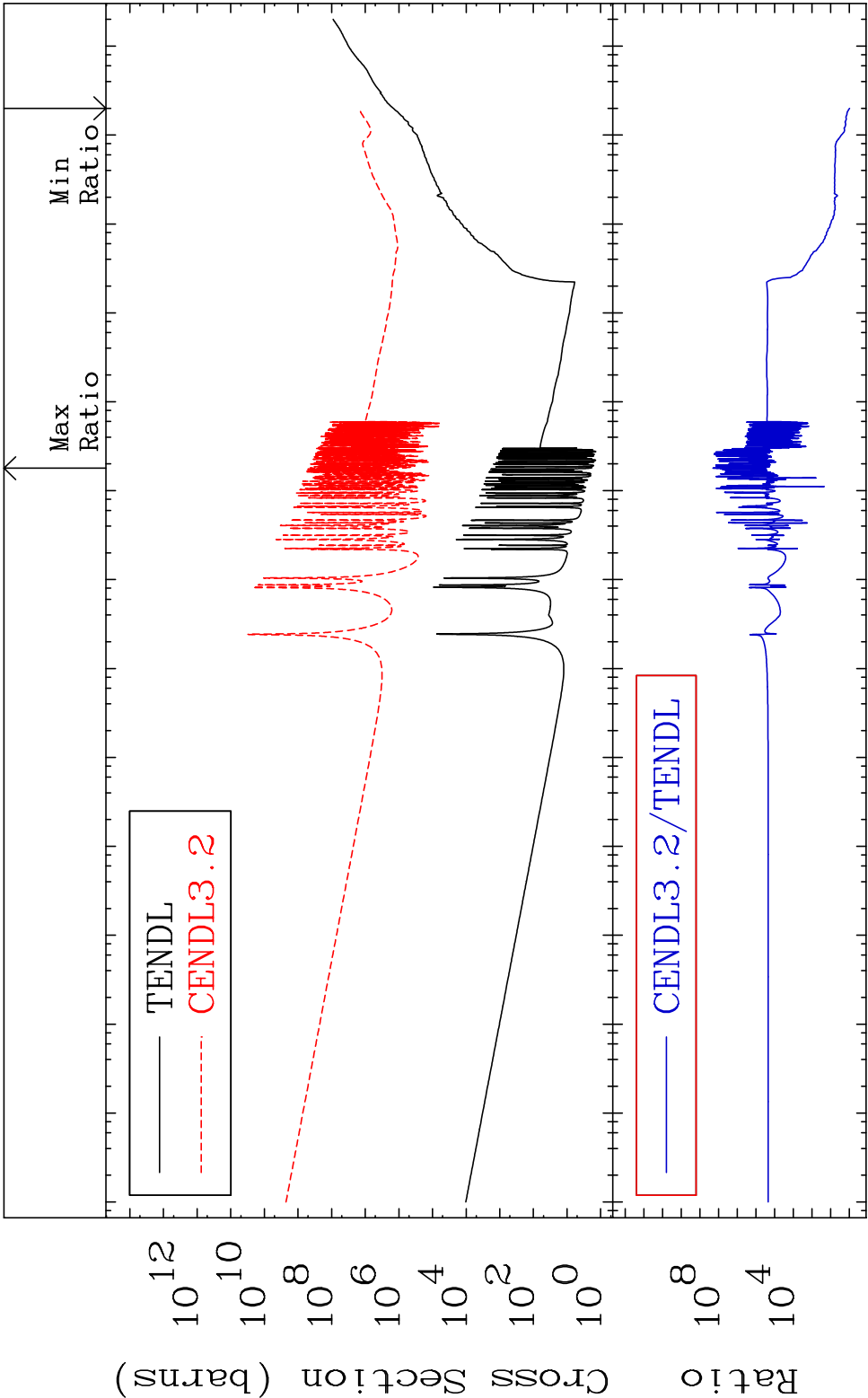
MAT 5640	Kerma total (eV-barns)	56-Ba-135
	Cross Section	823.7 To 9999. %

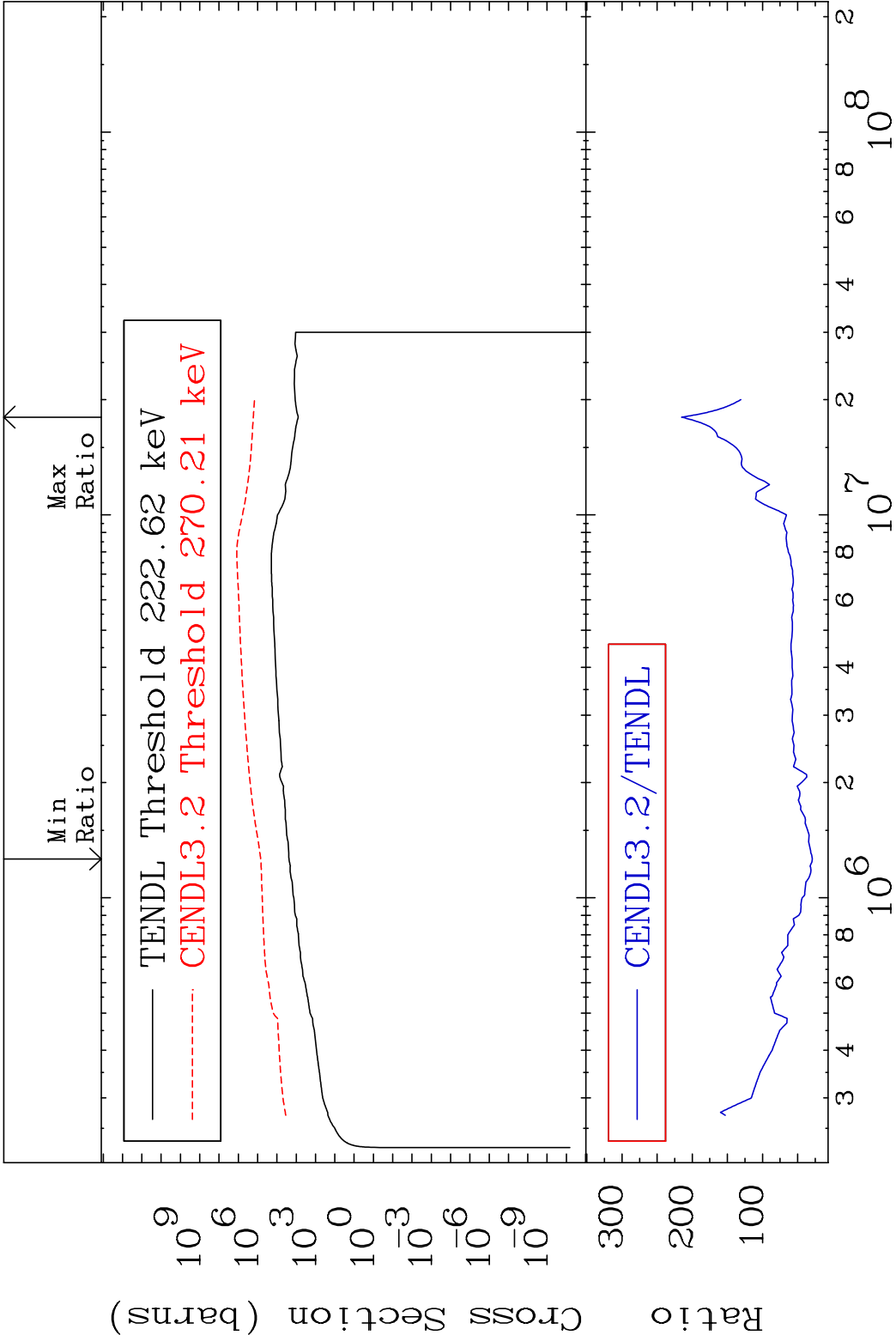


MAT 5640	Kerma elastic	56-Ba-135
	Cross Section	-99.49 To 9999. %



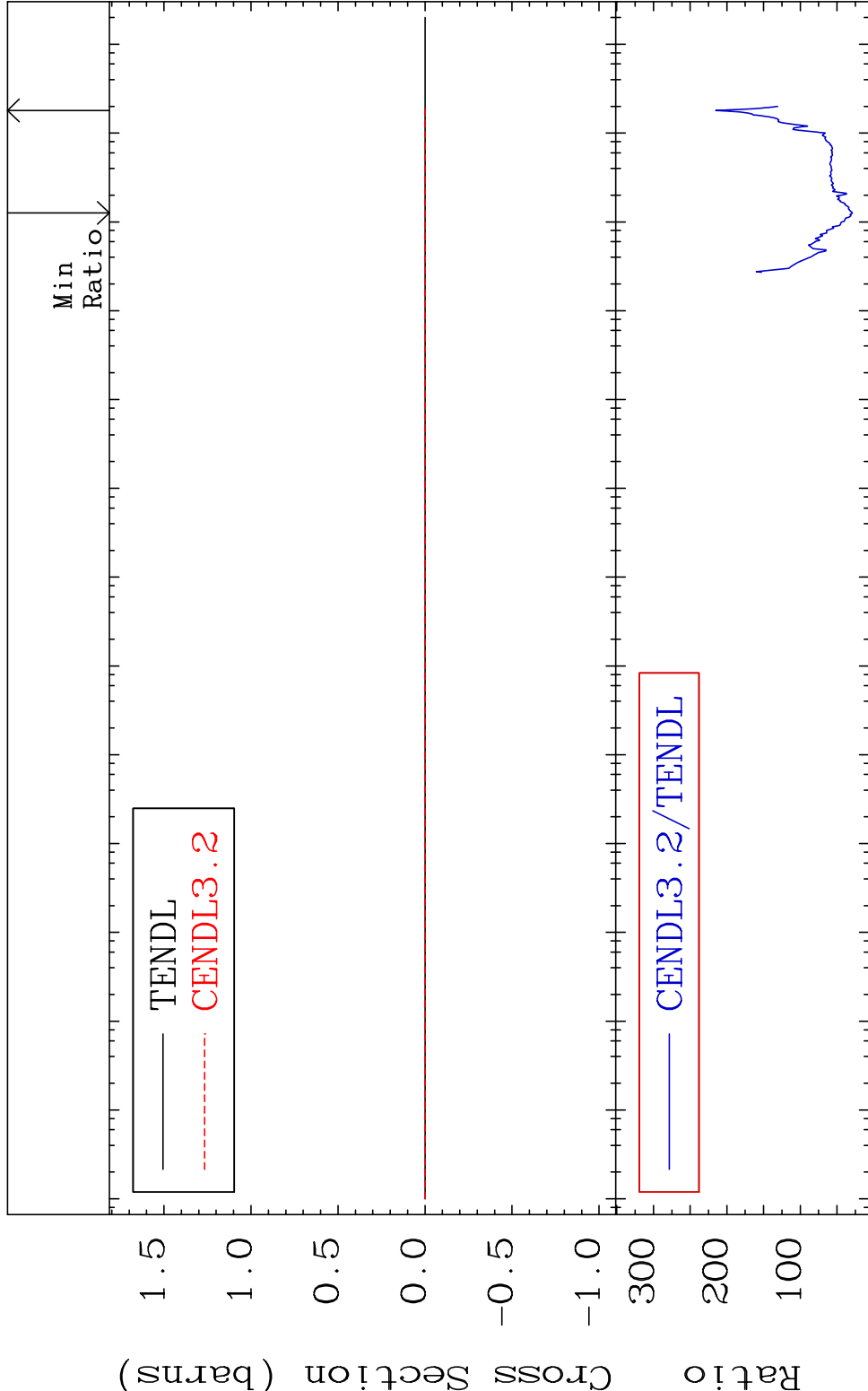
MAT 5640 Kerma non-elastic (all but mt2) 56-Ba-135
Cross Section 863.4 To 9999. %





MAT 5640 Kerma fission (mt18 or mt19-20-21-38)56-Ba-135

Cross Section 2830. To 9999. %



Ratio

300

200

100

Ratio

CENDL3.2/TENDL

Cross Section (barns)

1.5

1.0

0.5

0.0

-0.5

-1.0

Incident Energy (eV)

10⁻⁵

10⁻⁴

10⁻³

10⁻²

10⁻¹

10⁰

10¹

10²

10³

10⁴

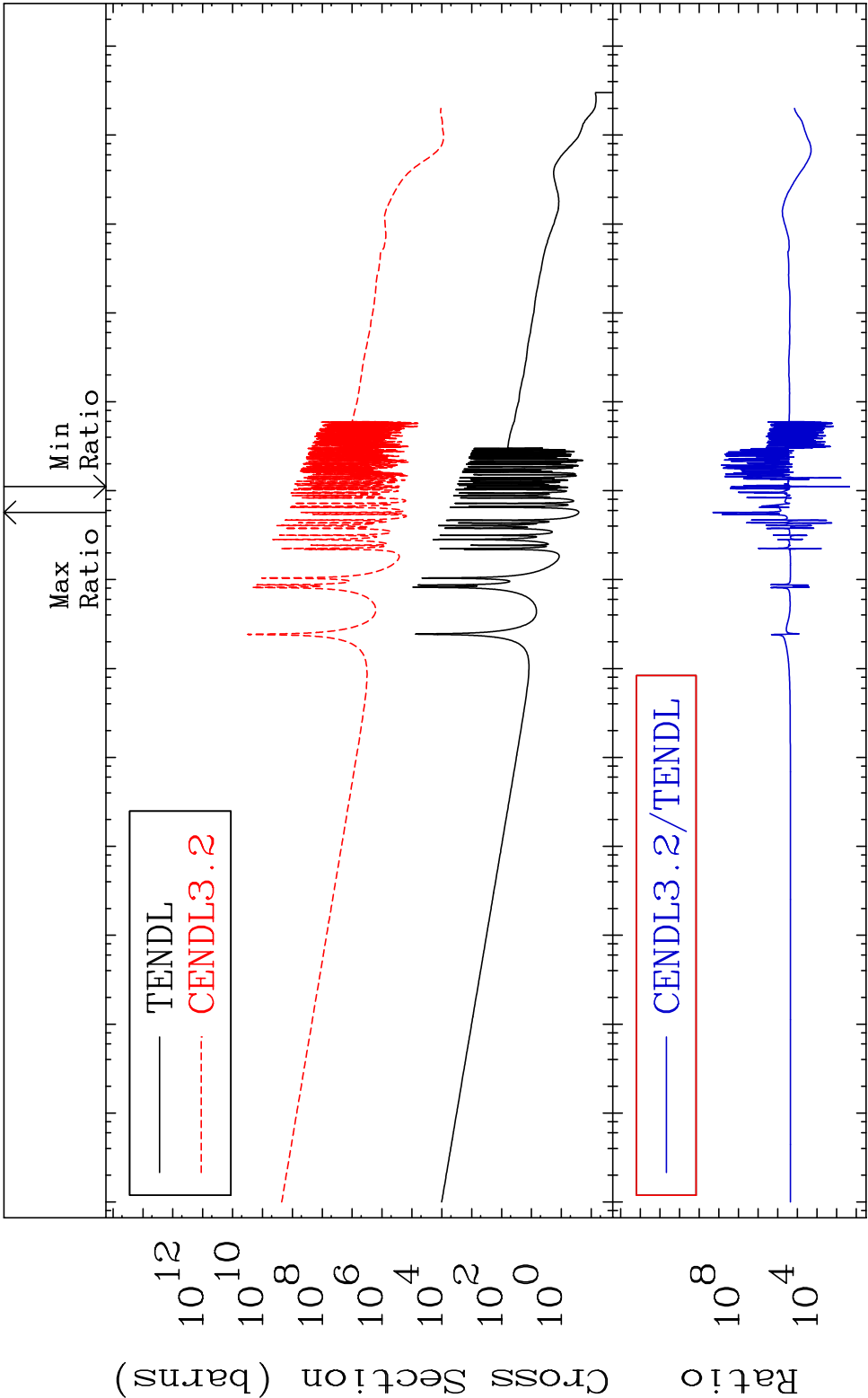
Min

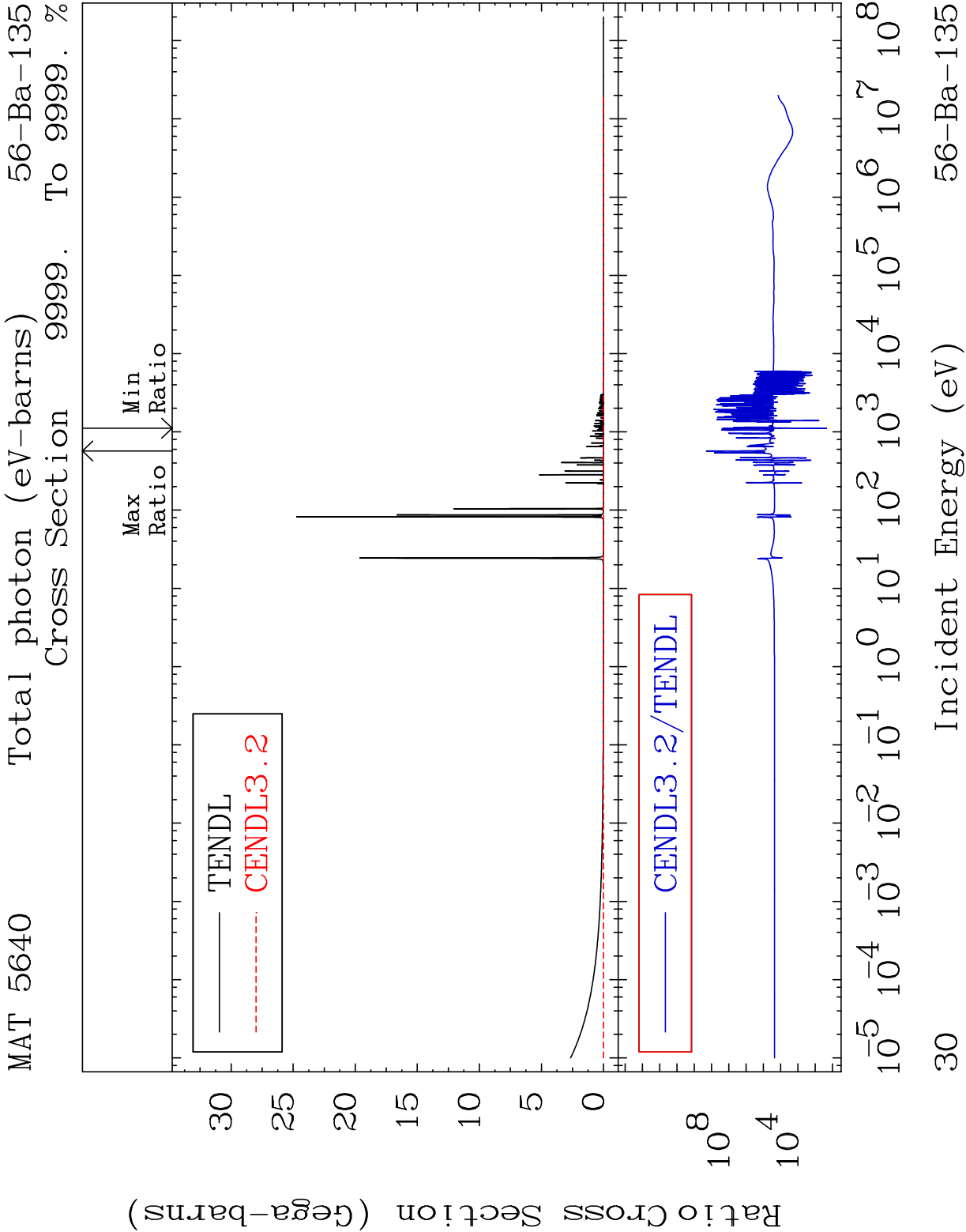
Ratio

56-Ba-135

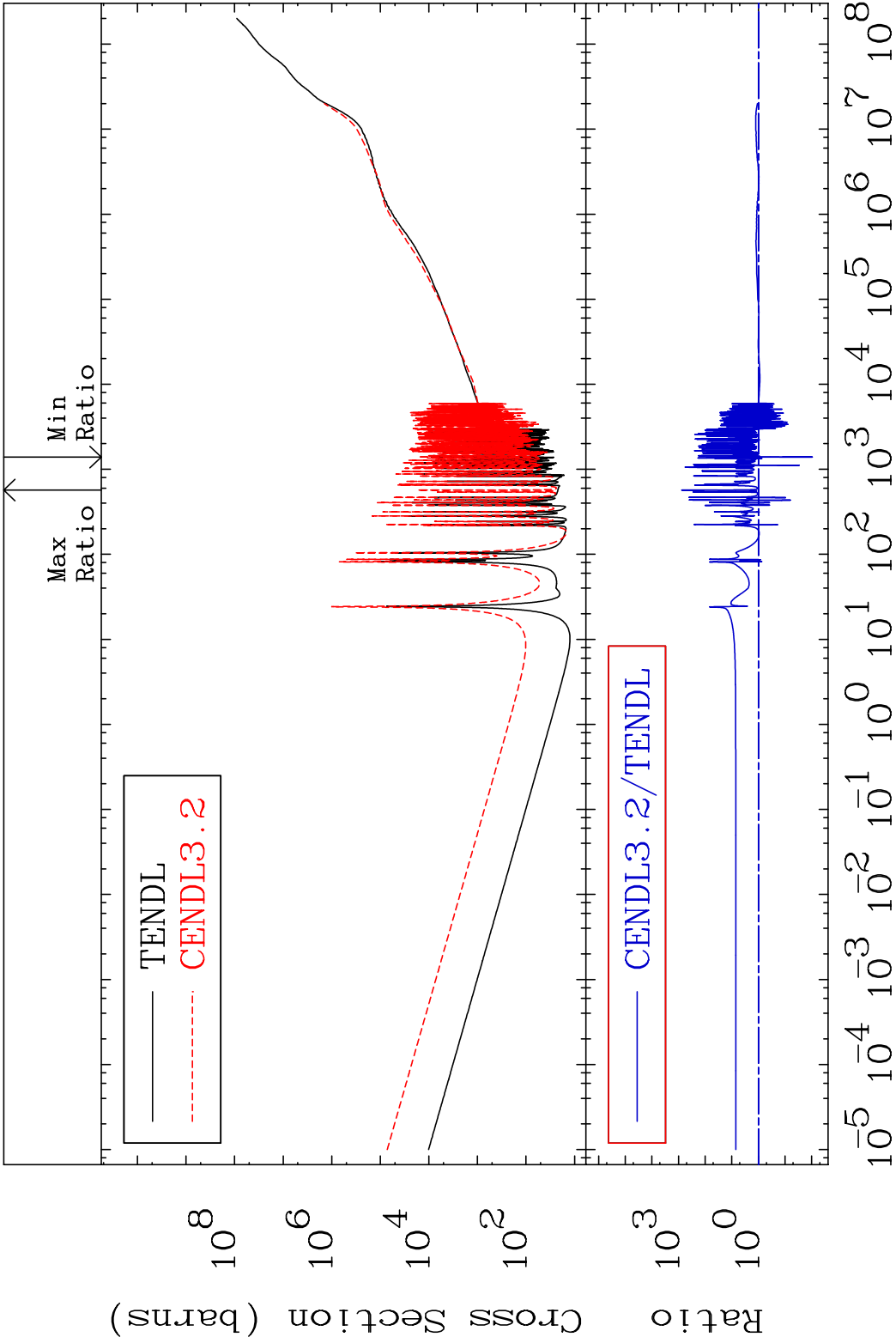
Incident Energy (eV)

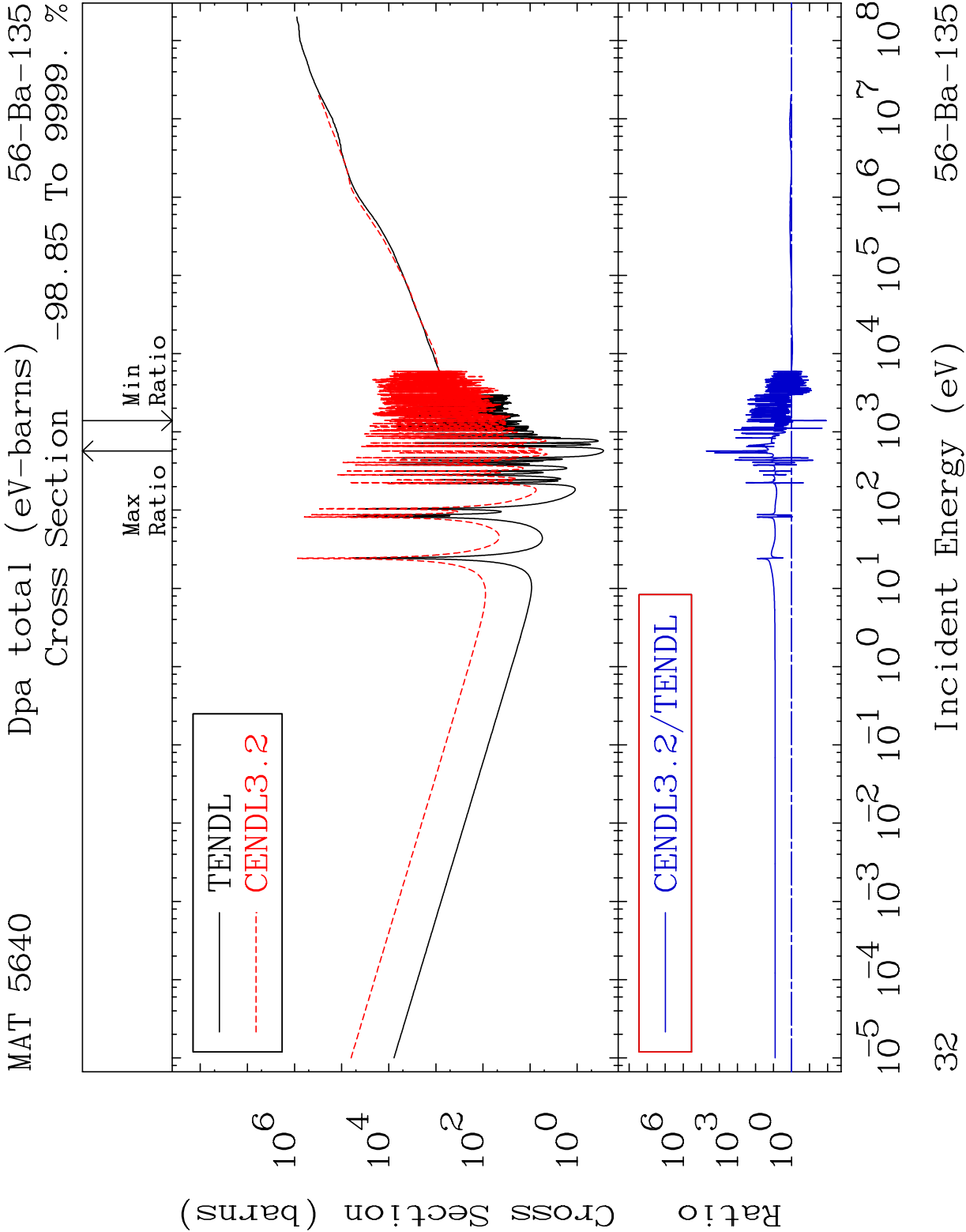
28



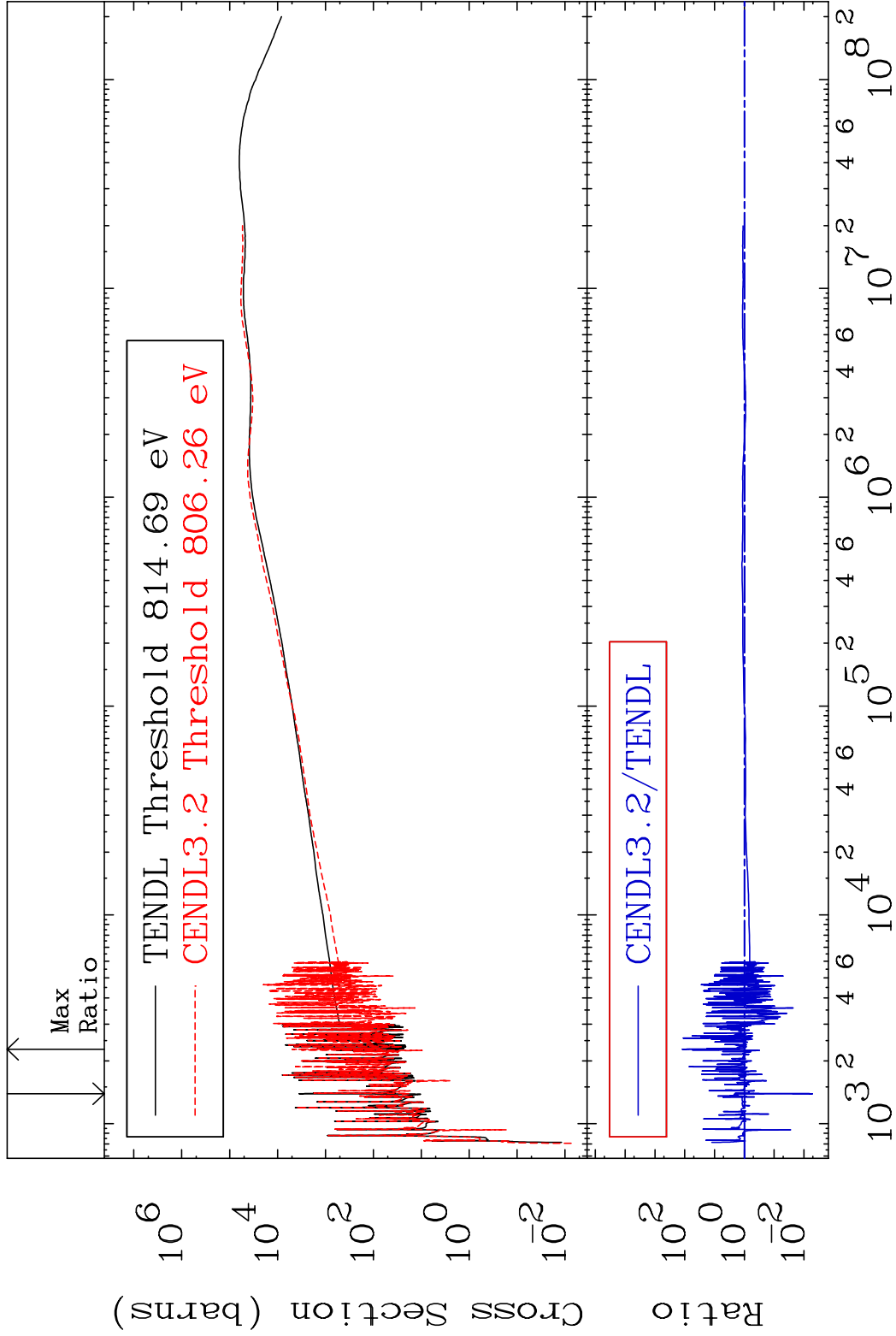


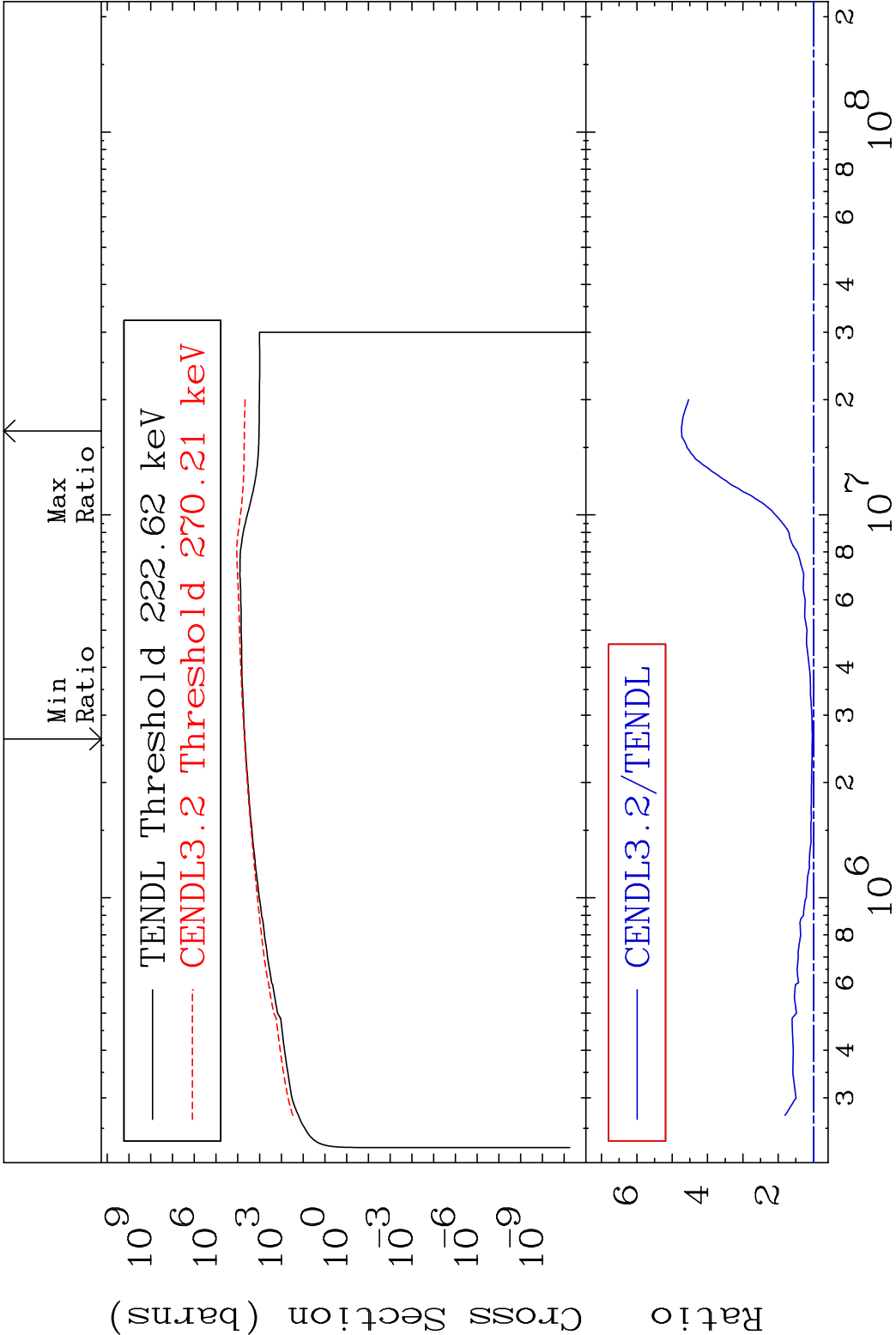
MAT 5640 Total kinematic kerma (high limit) 56-Ba-135
Cross Section -99.04 To 9999. %



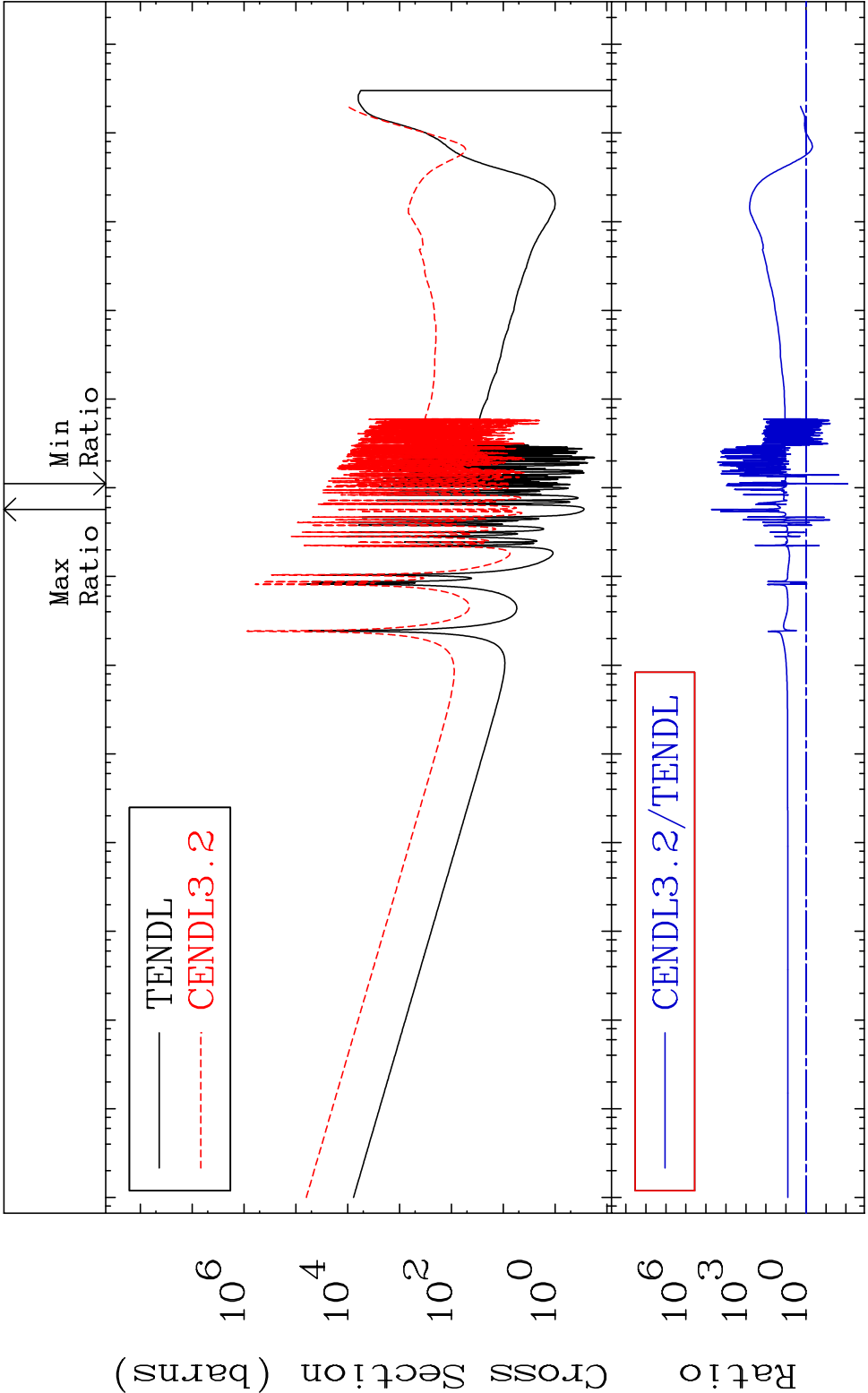


MAT 5640 Dpa elastic (mt2) 56-Ba-135
Cross Section -99.49 To 9999. %

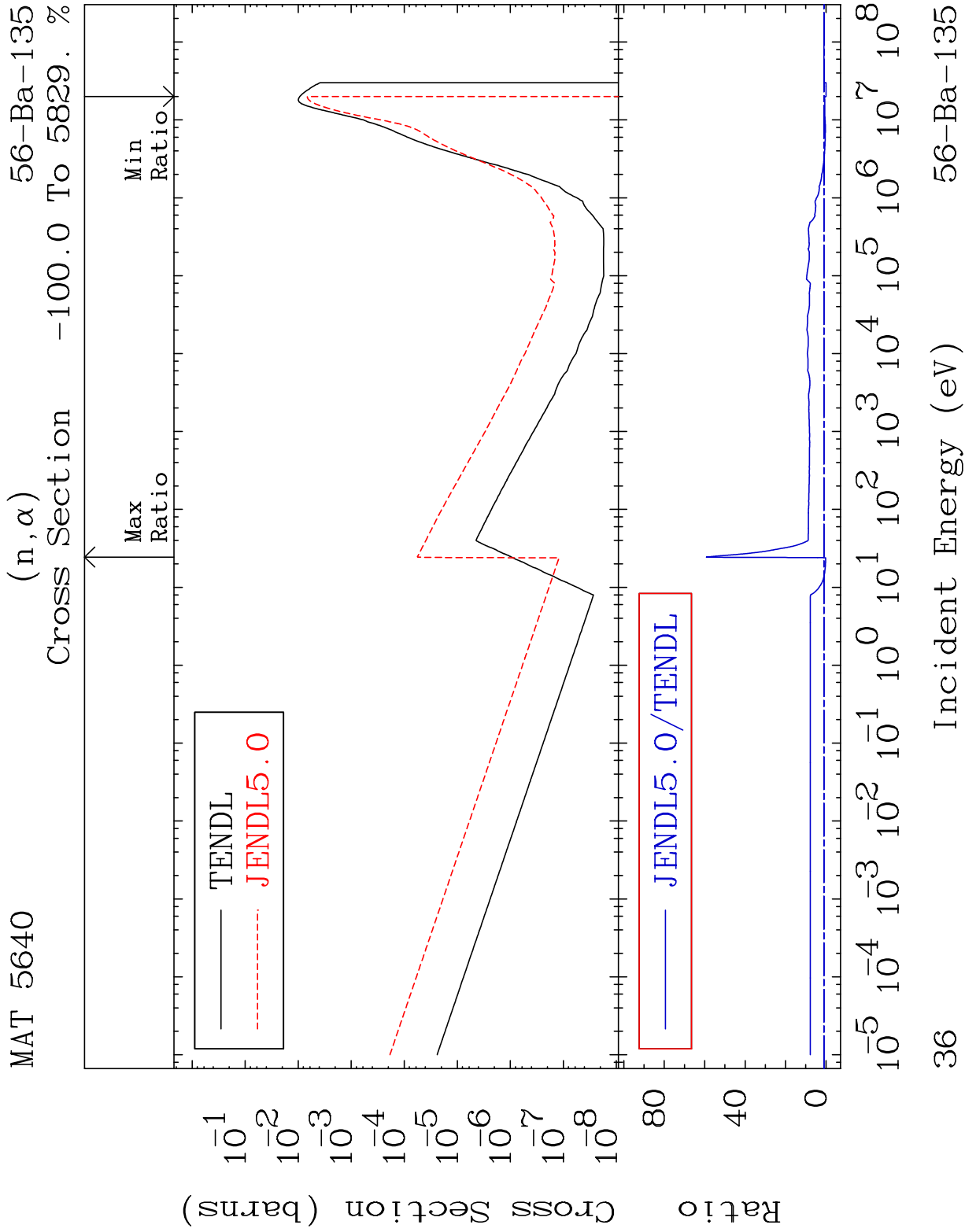


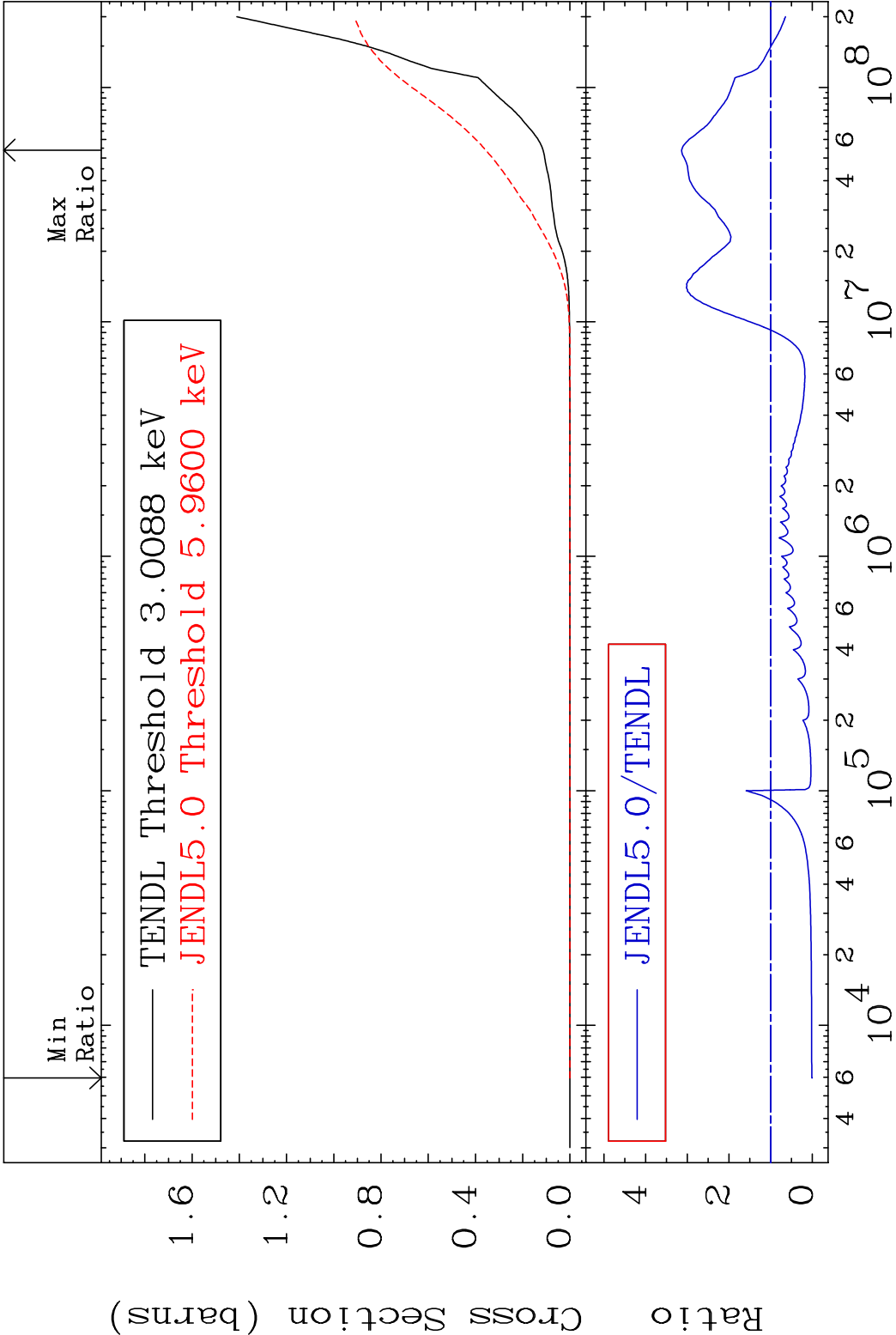


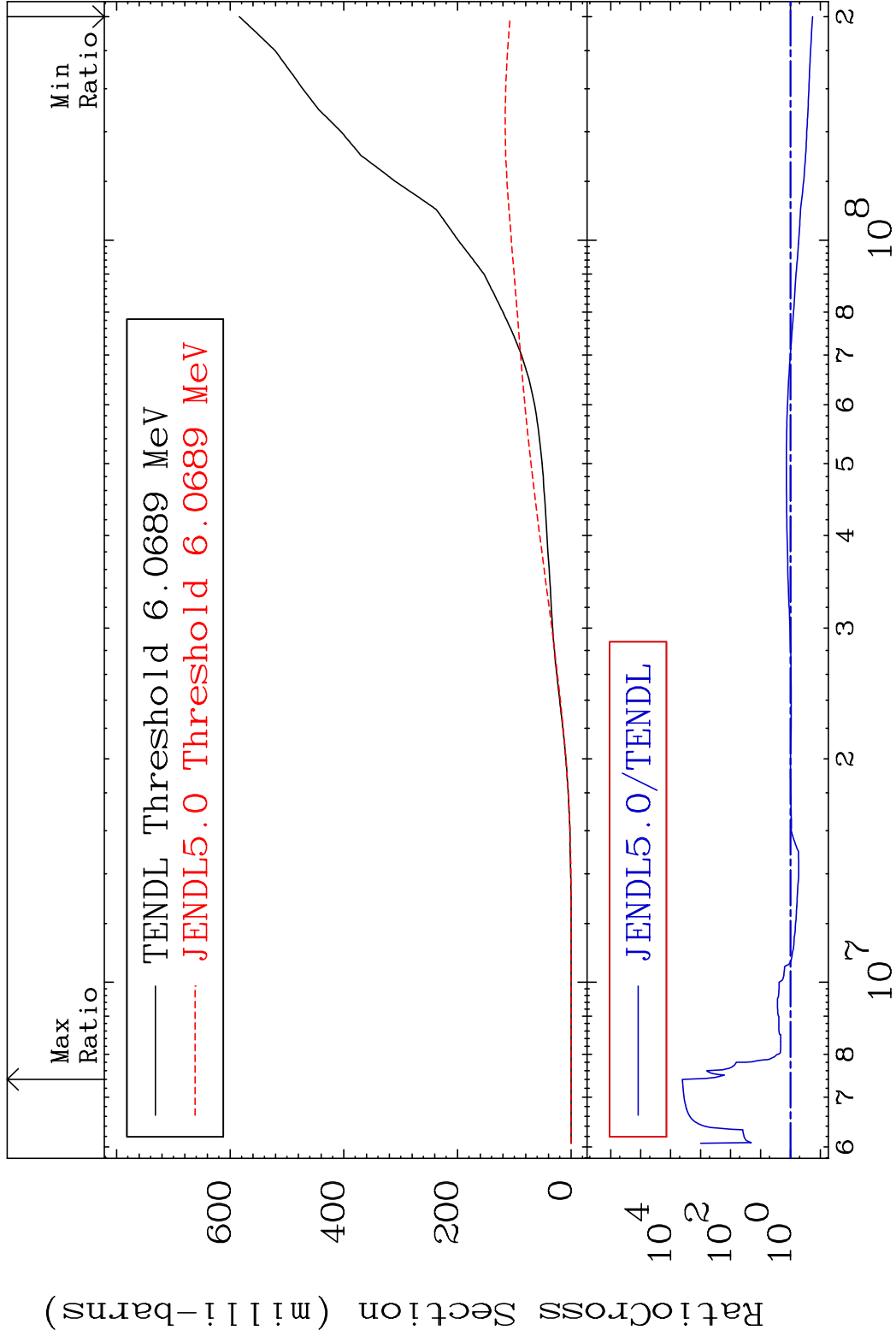
MAT 5640 Dpa disappearance (mt102 -120) 56-Ba-135
Cross Section -99.18 To 9999. %



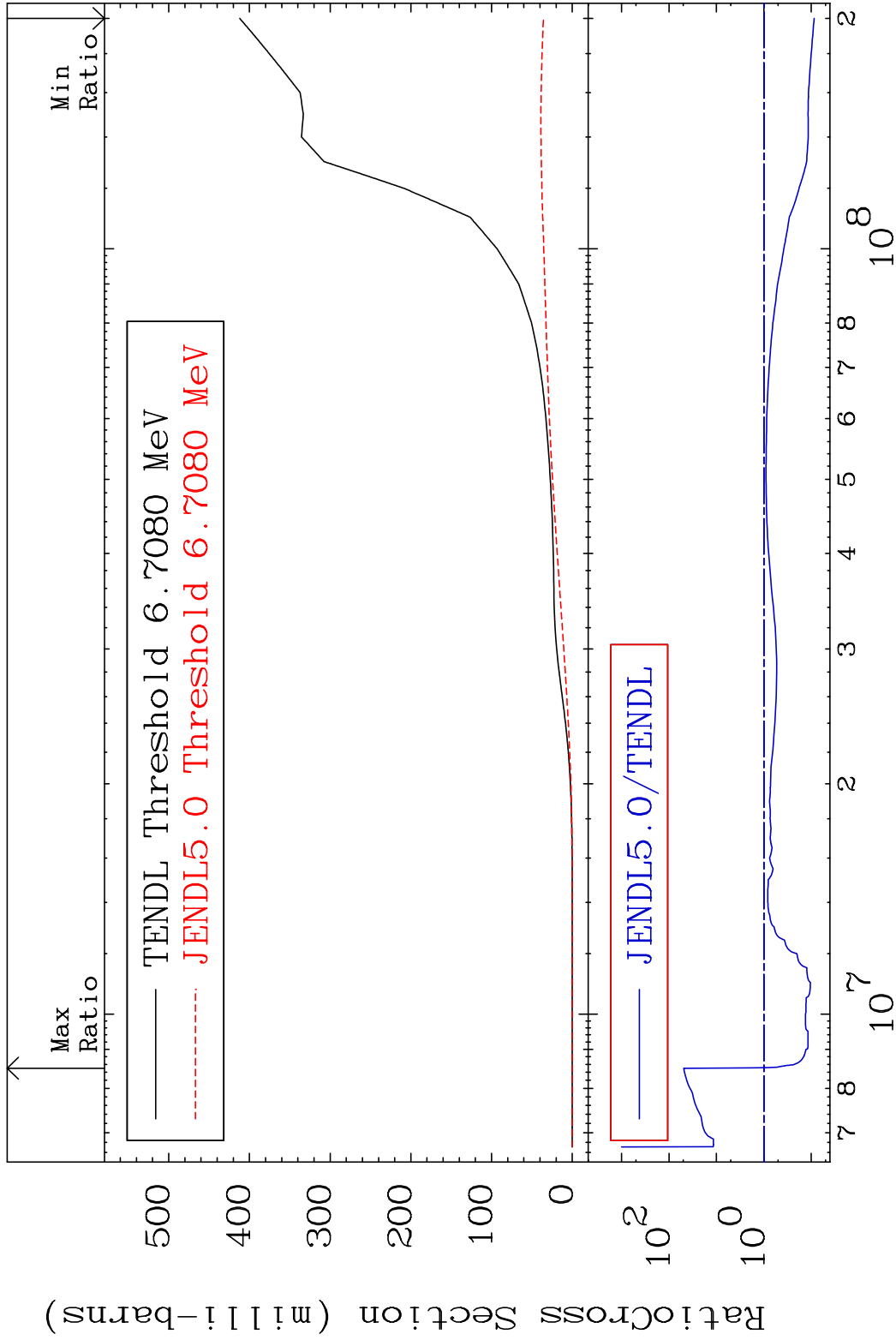
35 Incident Energy (eV) 56-Ba-135

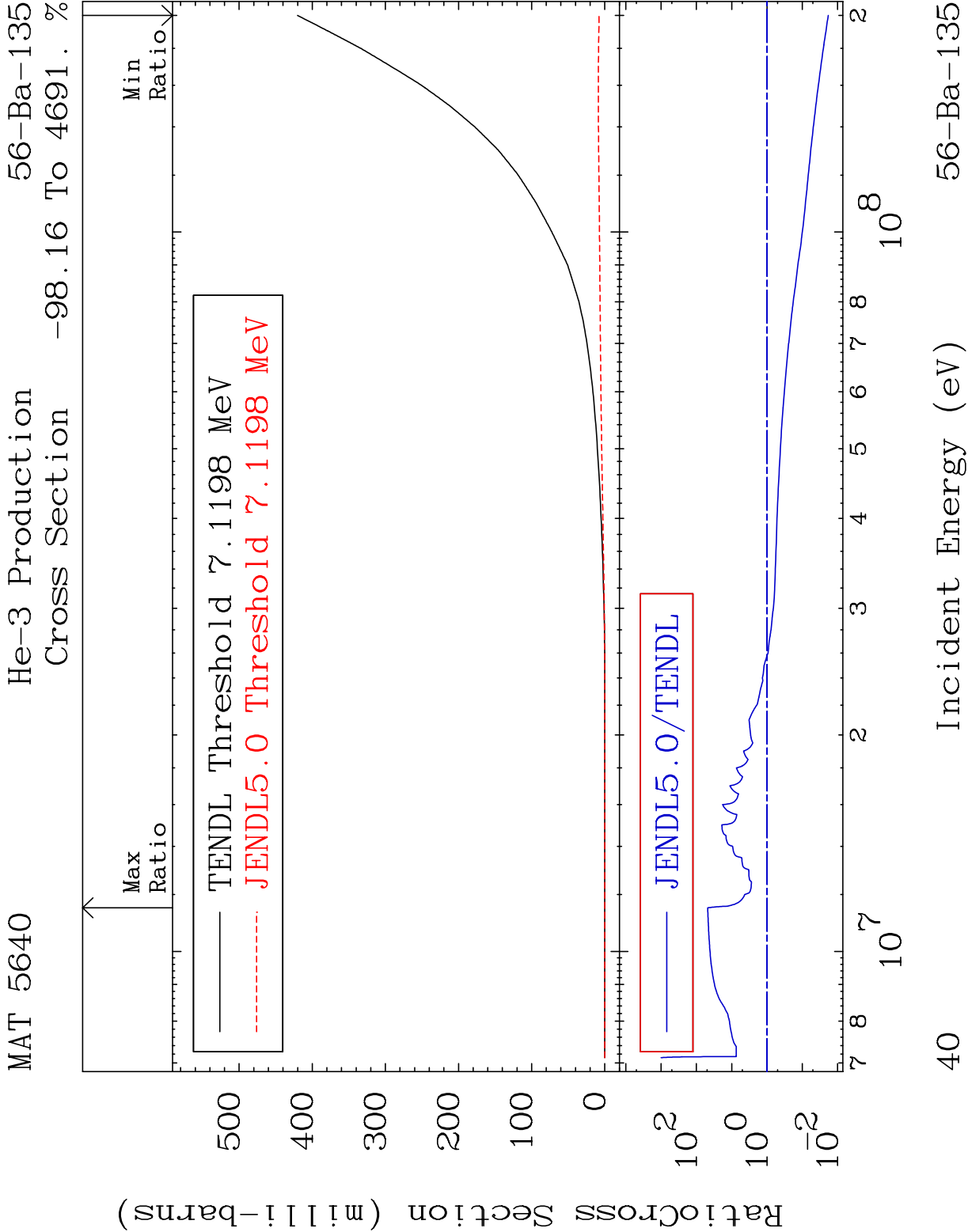


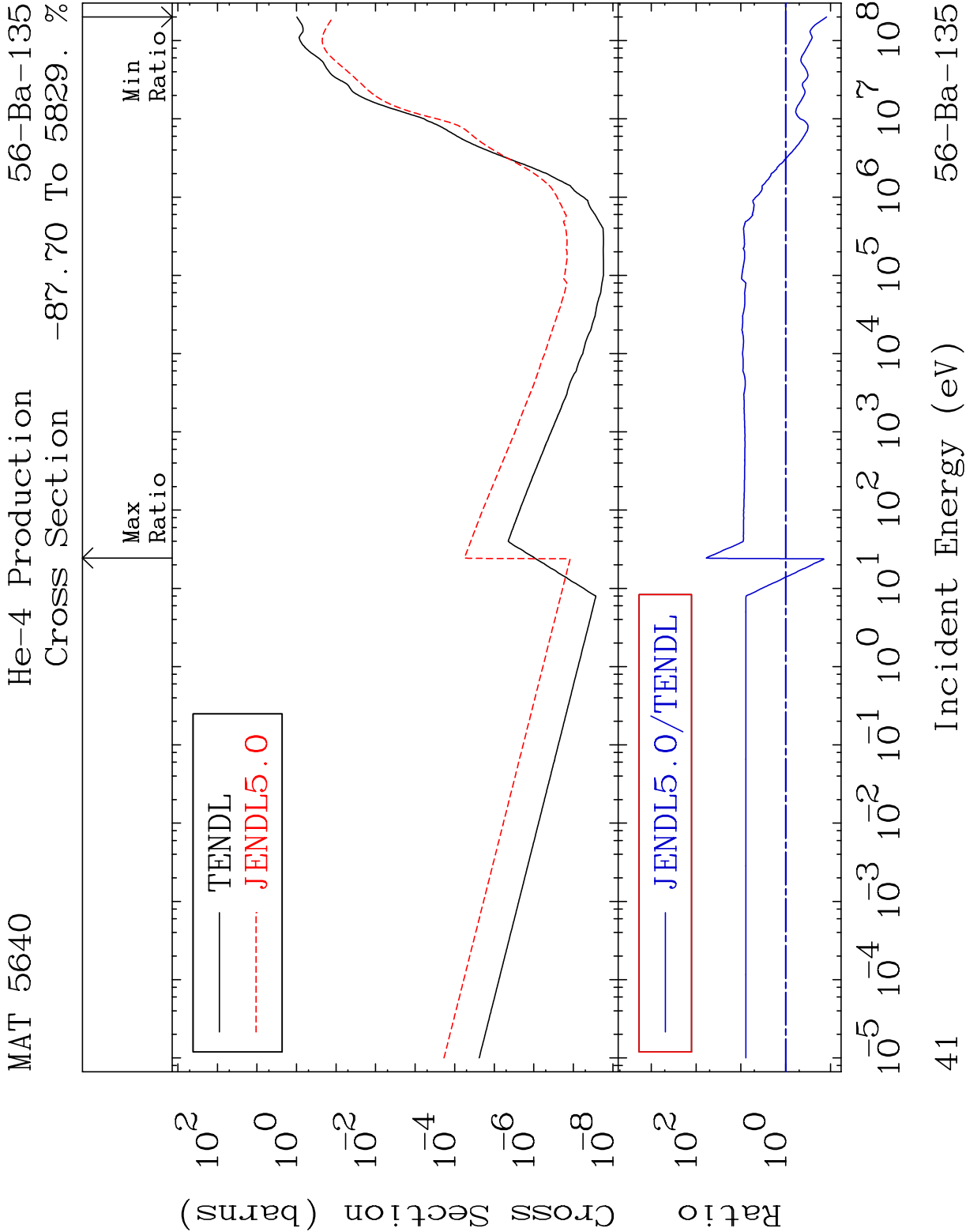




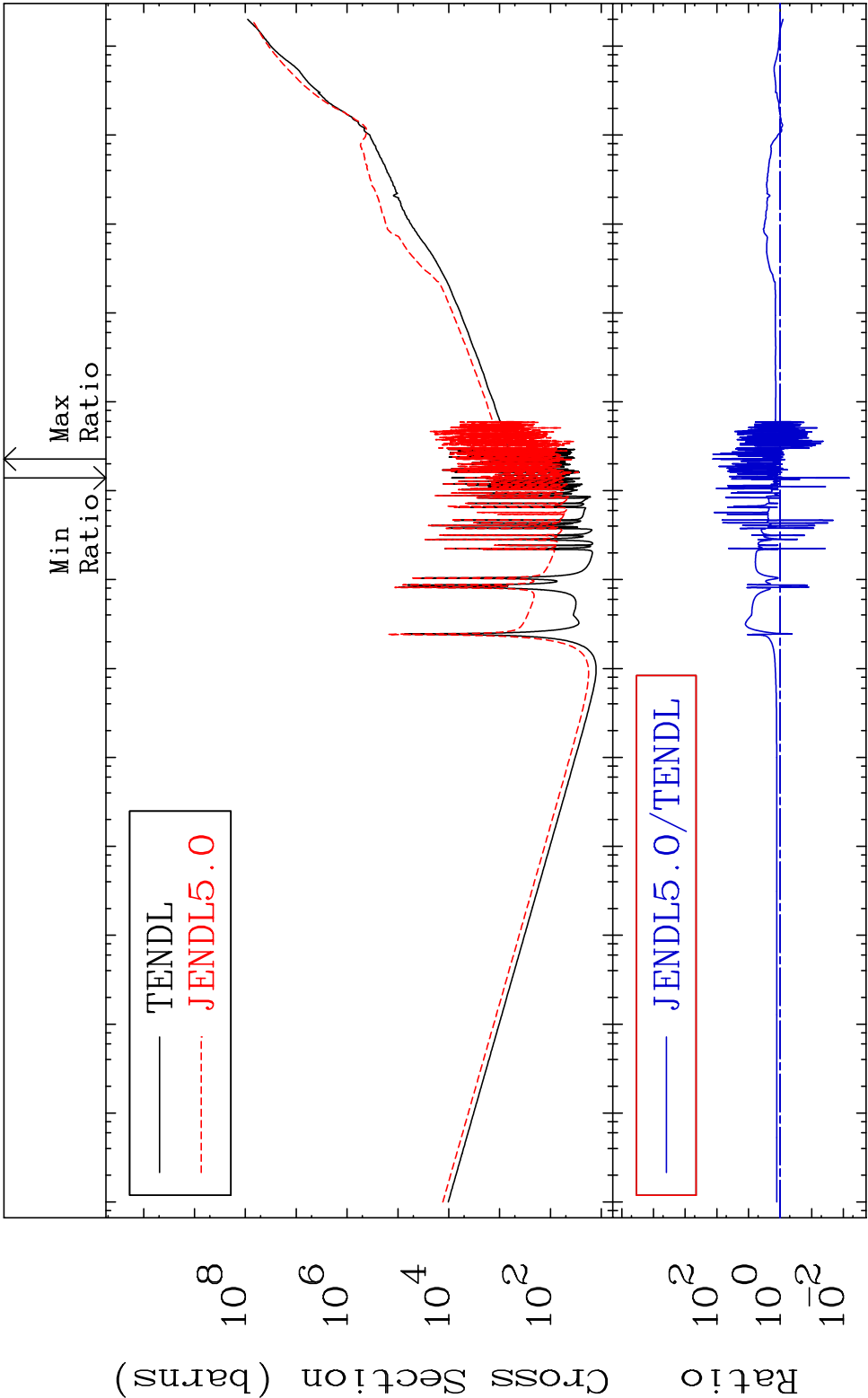
MAT 5640 Tritium Production 56-Ba-135
Cross Section -91.31 To 4809. %



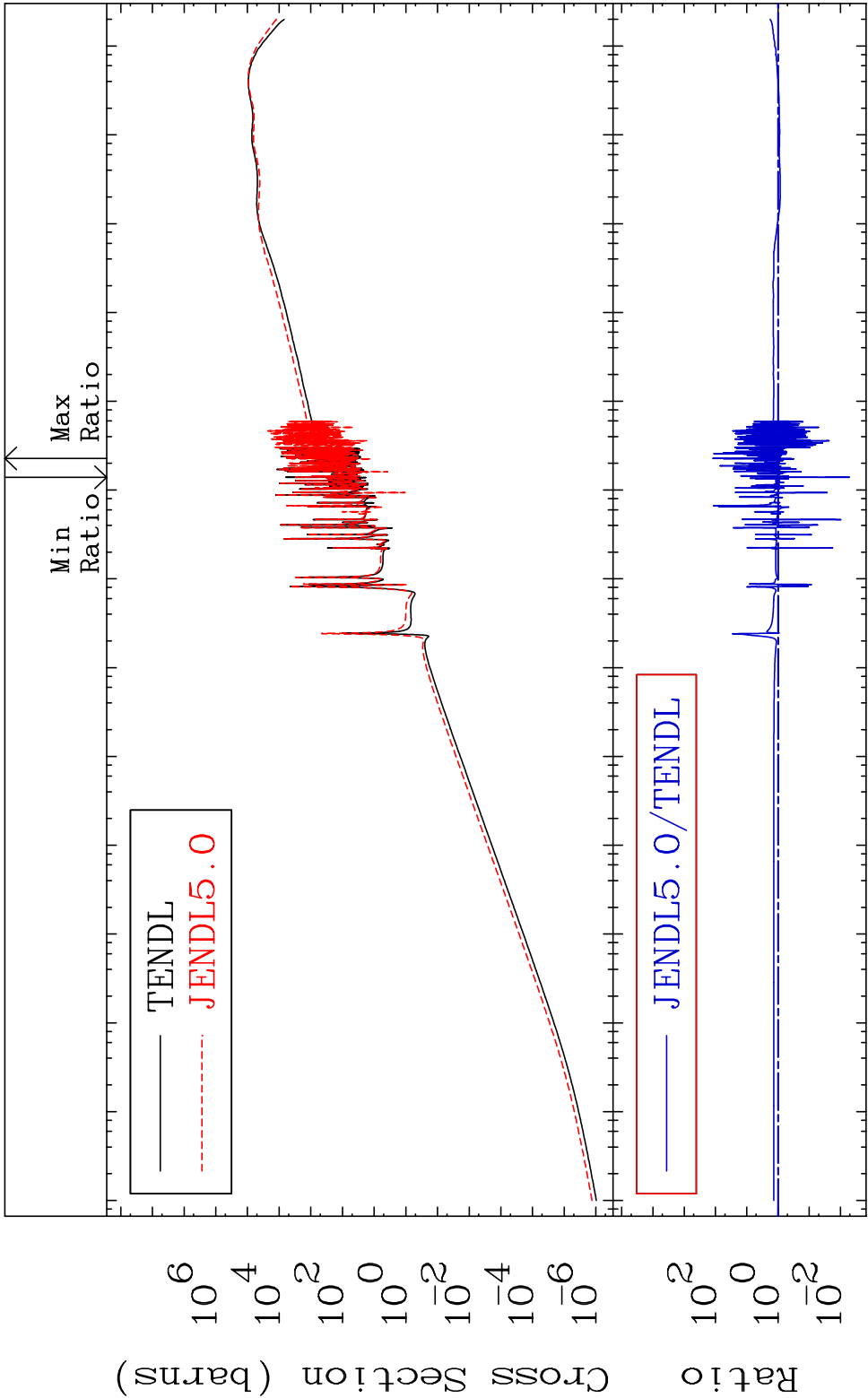




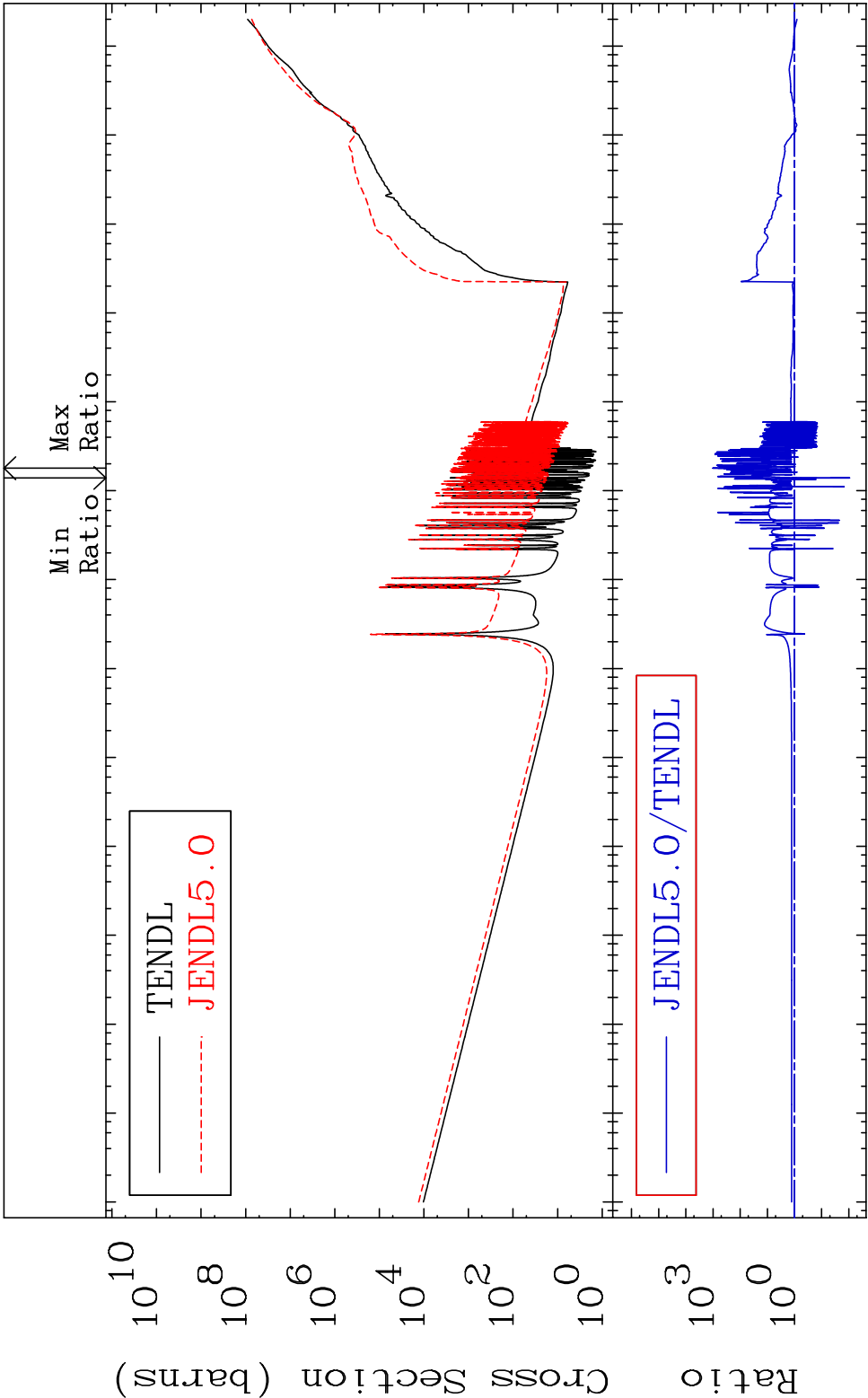
MAT 5640 Kerma total (eV-barns) 56-Ba-135
Cross Section -99.36 To 9999. %



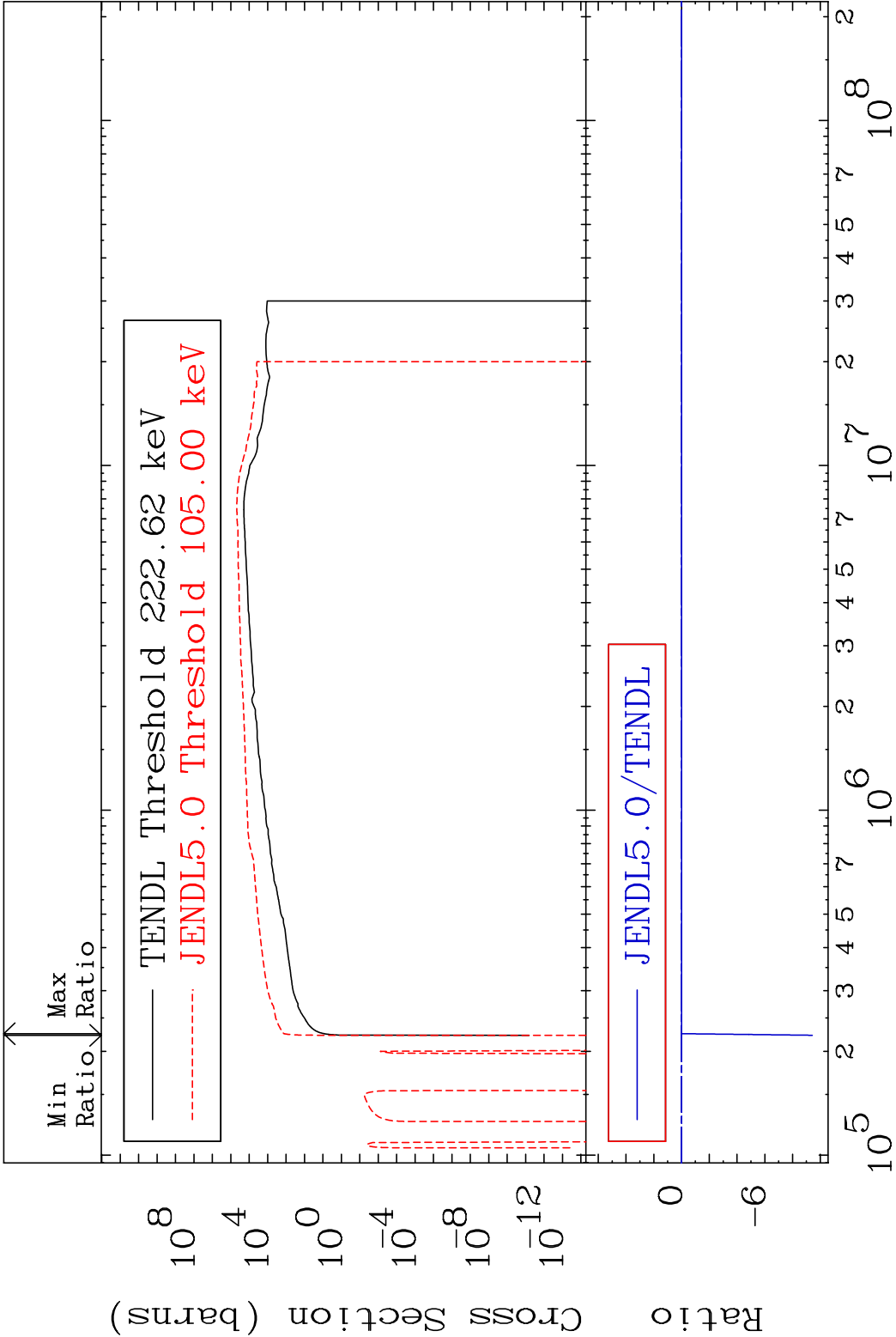
MAT 5640 Kerma elastic 56-Ba-135
Cross Section -99.49 To 9999. %



MAT 5640 Kerma non-elastic (all but mt2) 56-Ba-135
Cross Section -99.06 To 9999. %

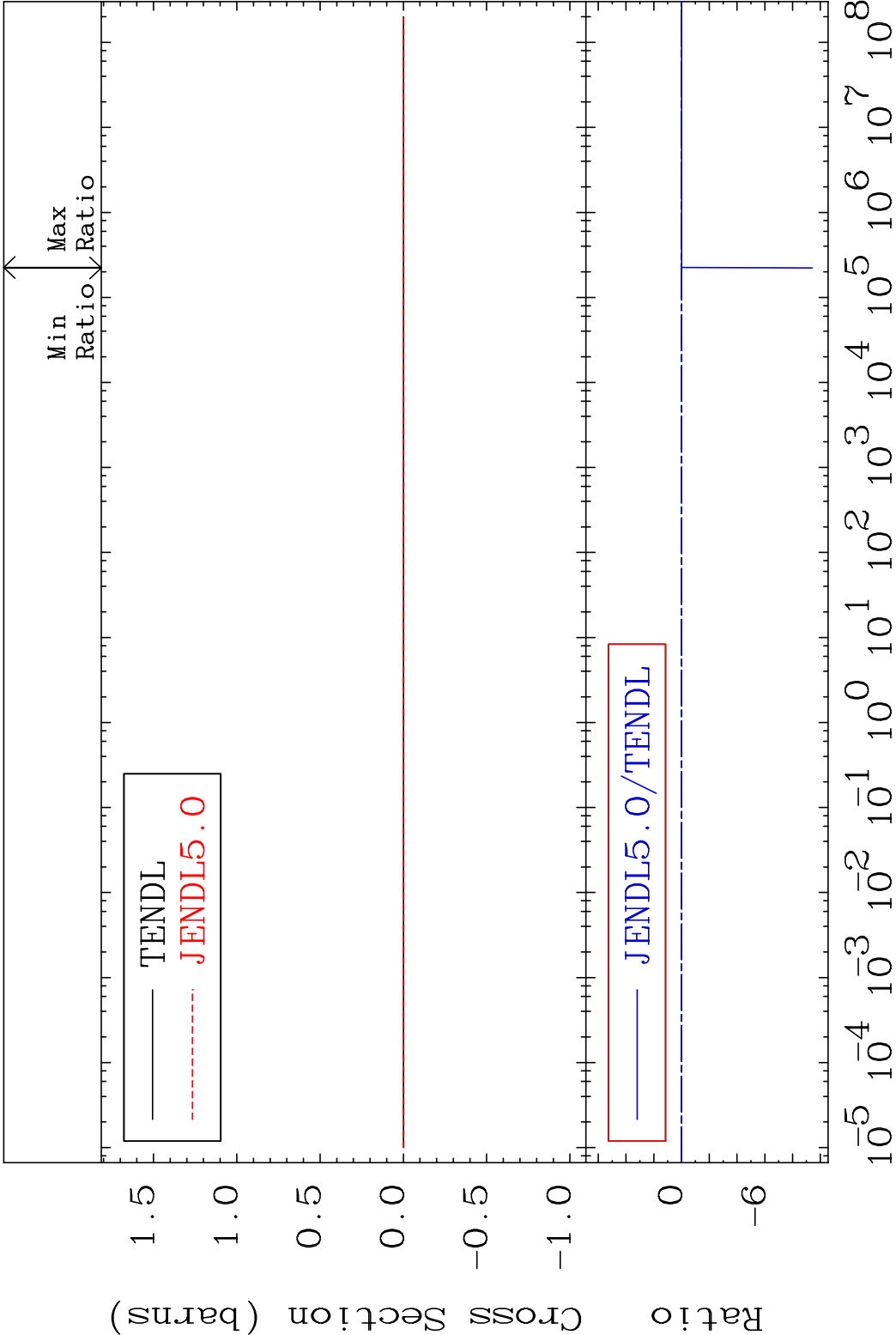


MAT 5640 Kerma inelastic (mt51-91) 56-Ba-135
Cross Section -9999. To 9999. %

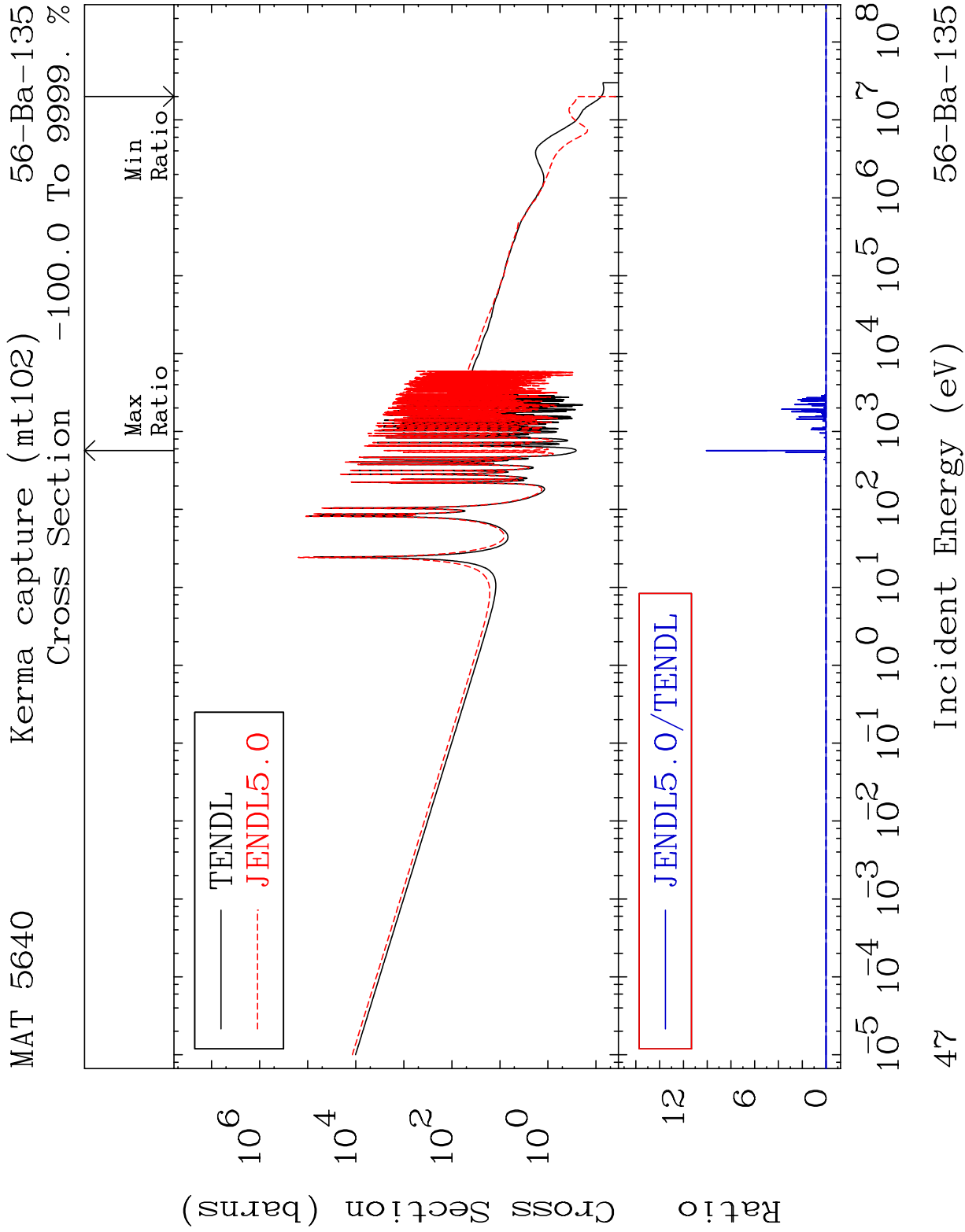


45 Incident Energy (eV) 56-Ba-135

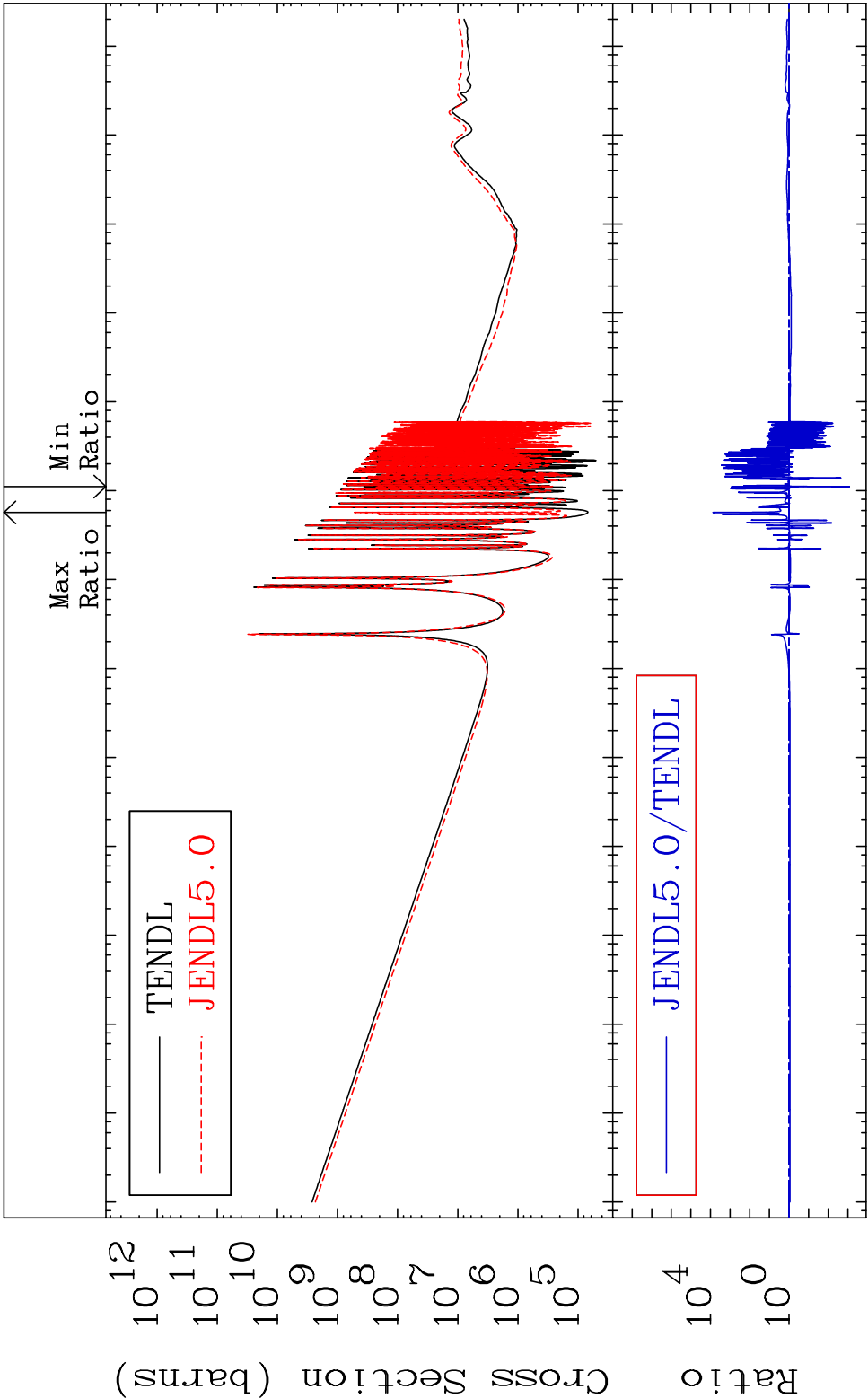
MAT 5640 Kerma fission (mt18 or mt19-20-21-38)56-Ba-135
Cross Section -9999. To 9999. %



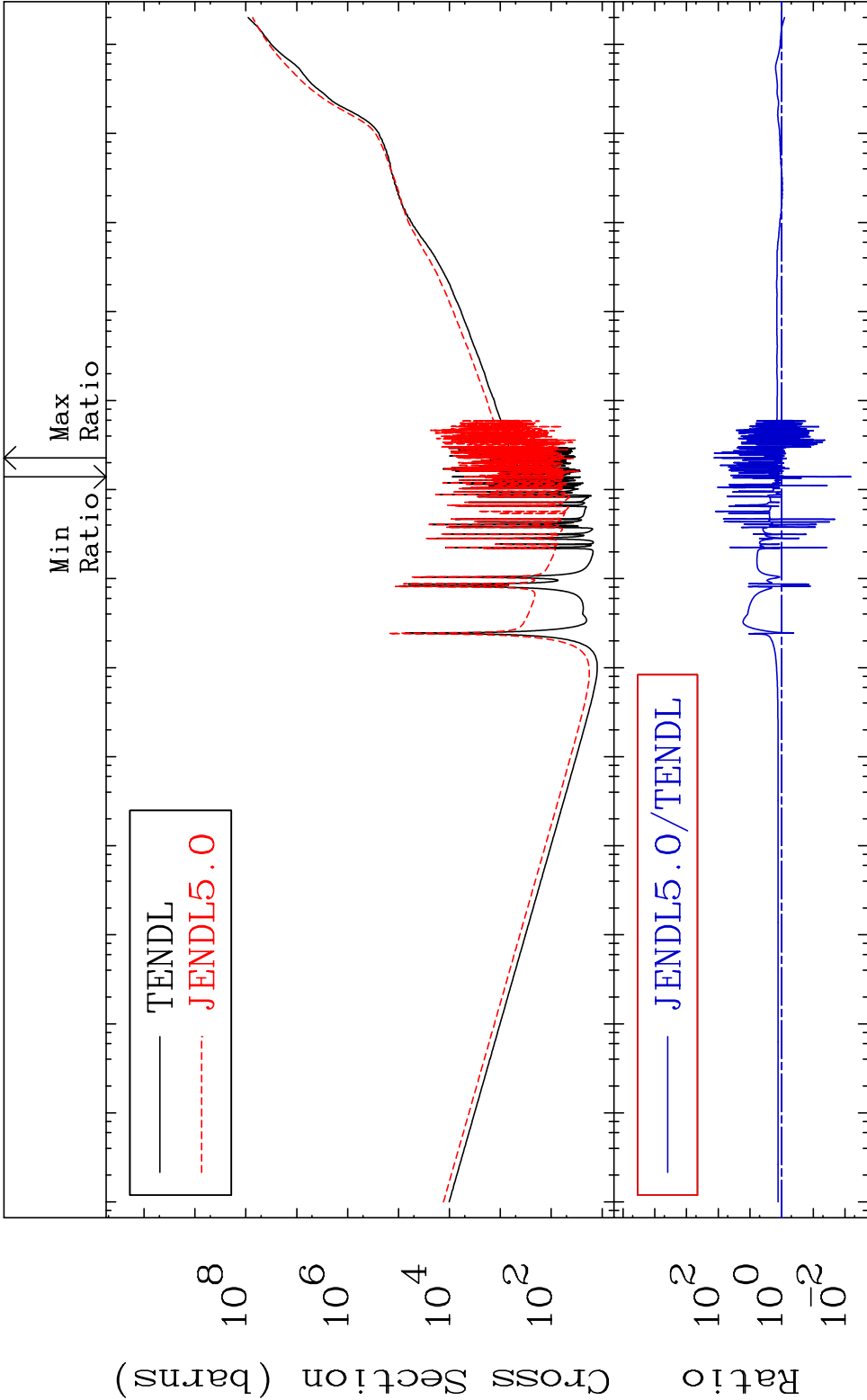
46 Incident Energy (eV) 56-Ba-135



MAT 5640 Total photon (eV-barns) 56-Ba-135
Cross Section -99.92 To 9999. %



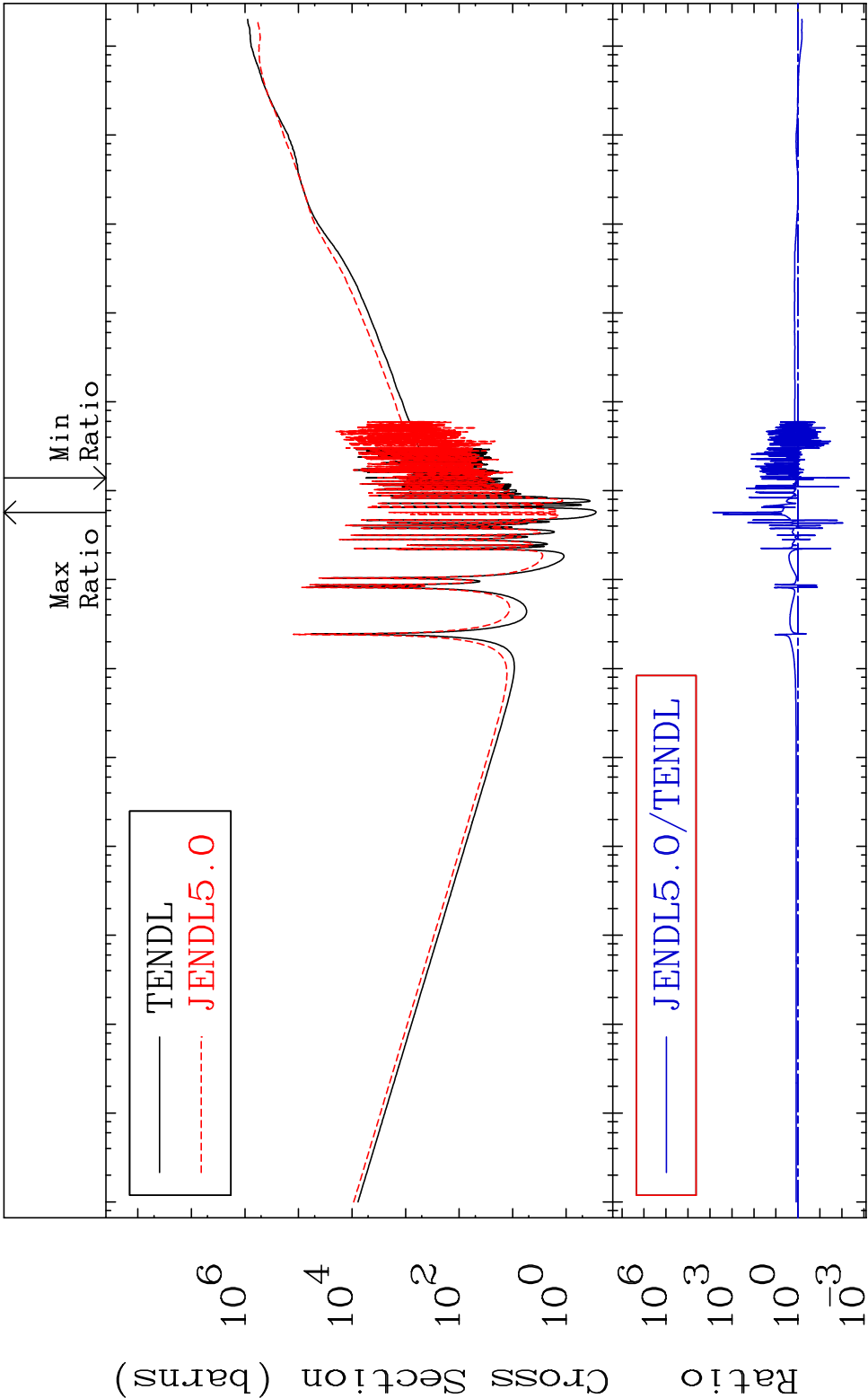
MAT 5640 Total kinematic kerma (high limit) 56-Ba-135
Cross Section -99.36 To 9999. %



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

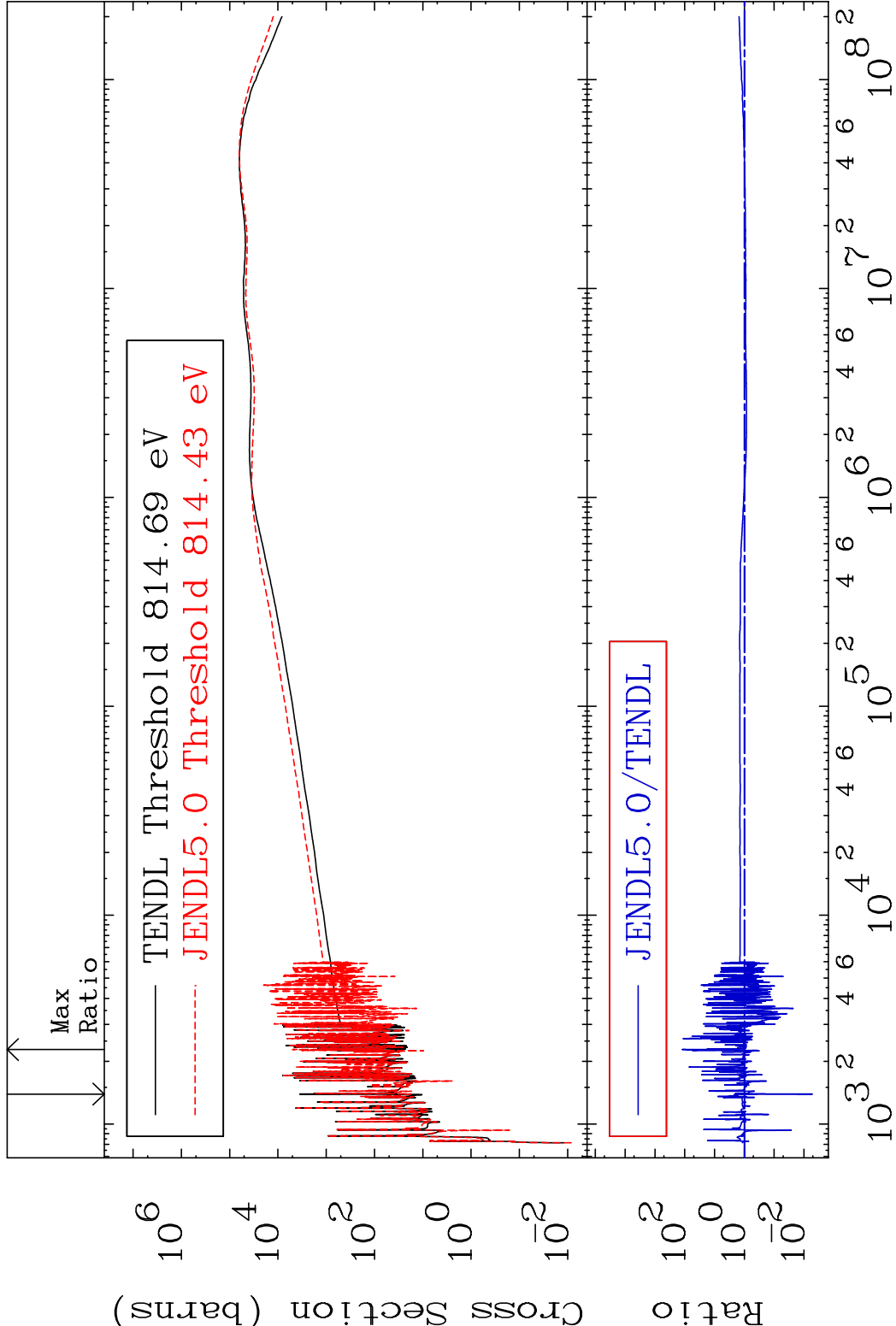
49 Incident Energy (eV) 56-Ba-135

MAT 5640 Dpa total (eV-barns) 56-Ba-135
Cross Section -99.55 To 9999. %



50 Incident Energy (eV) 56-Ba-135

MAT 5640 Dpa elastic (mt2) 56-Ba-135
Cross Section -99.49 To 9999. %



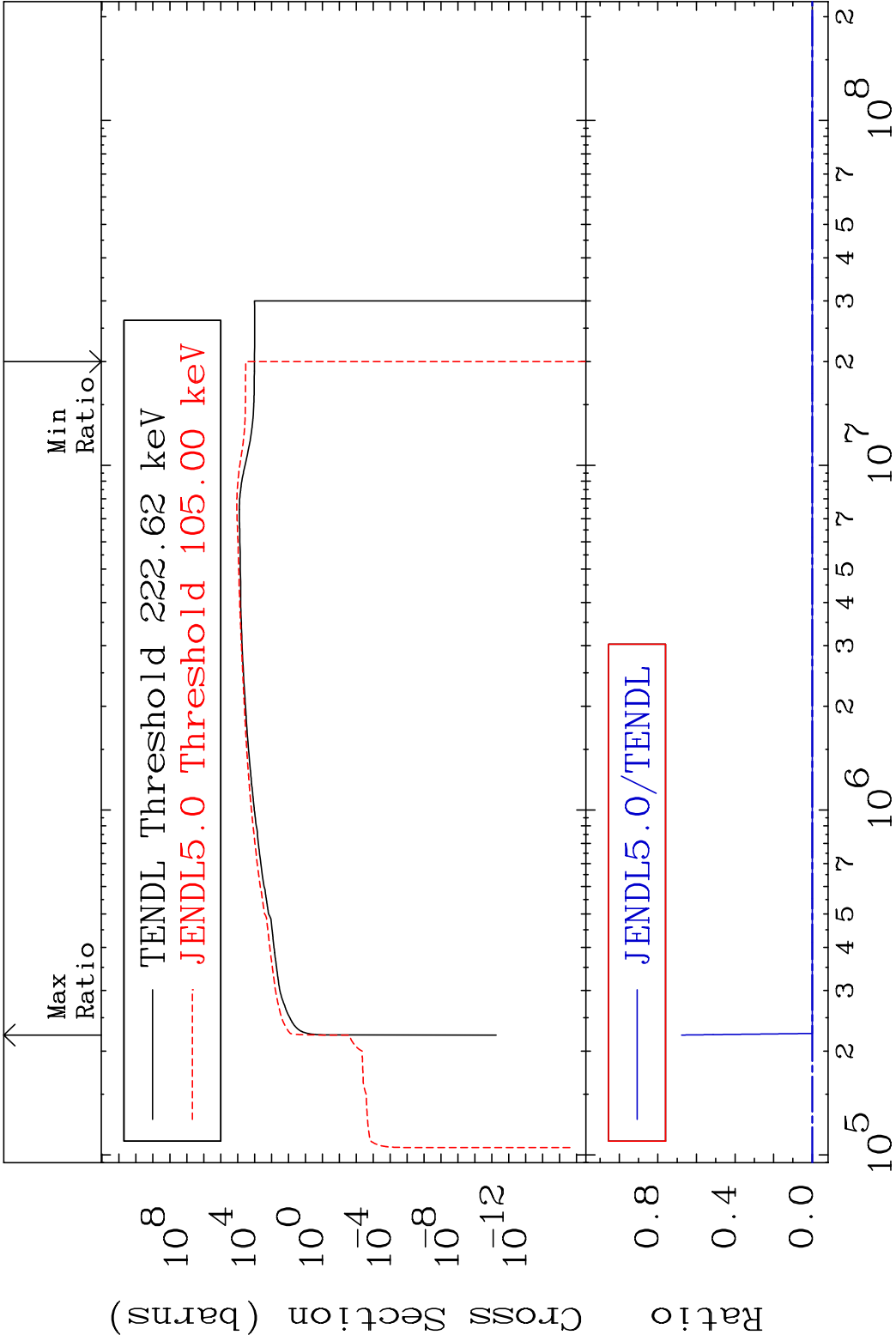
MAT 5640

Dpa inelastic (mt51-91)

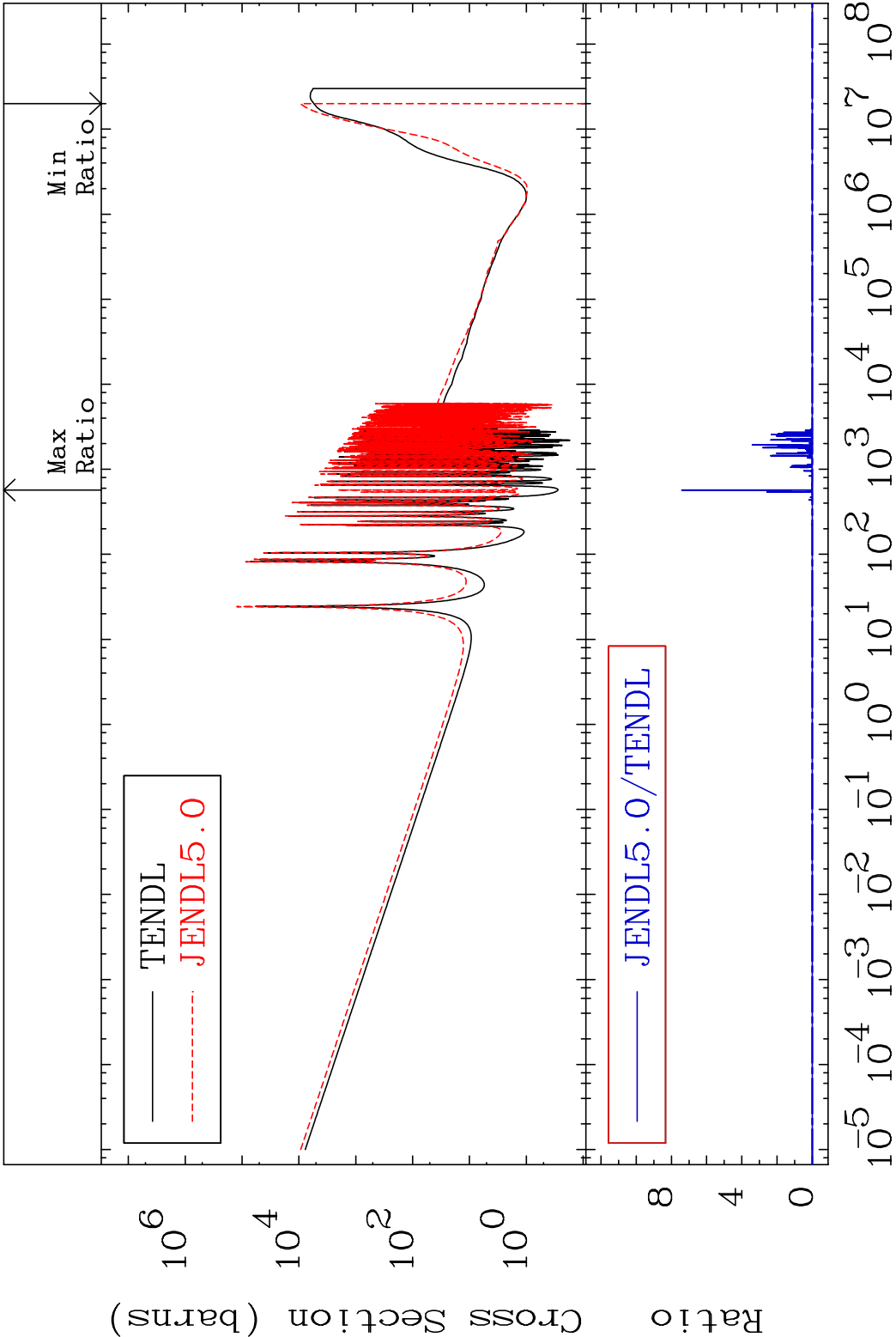
56-Ba-135

Cross Section

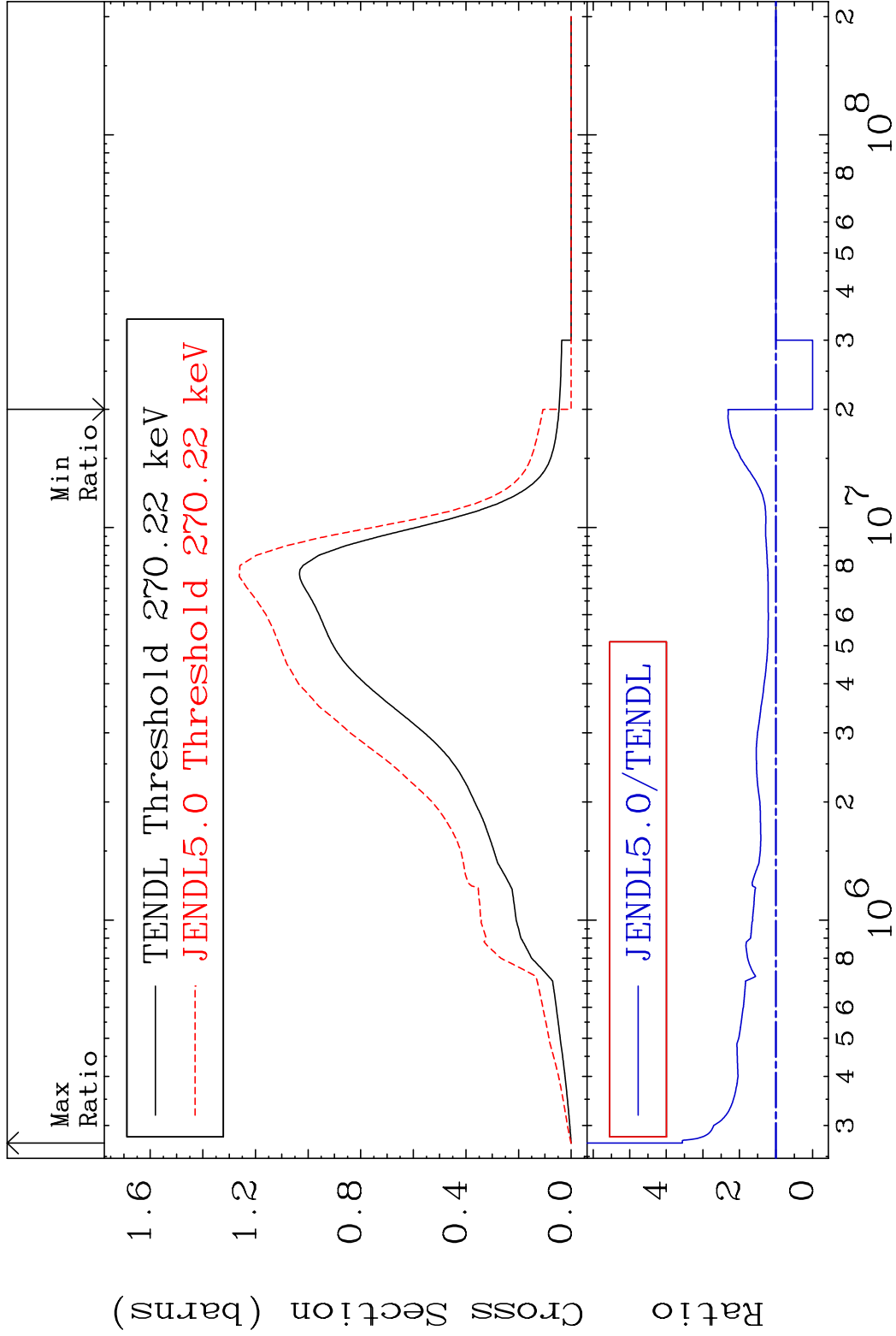
-100.0 To 9999. %

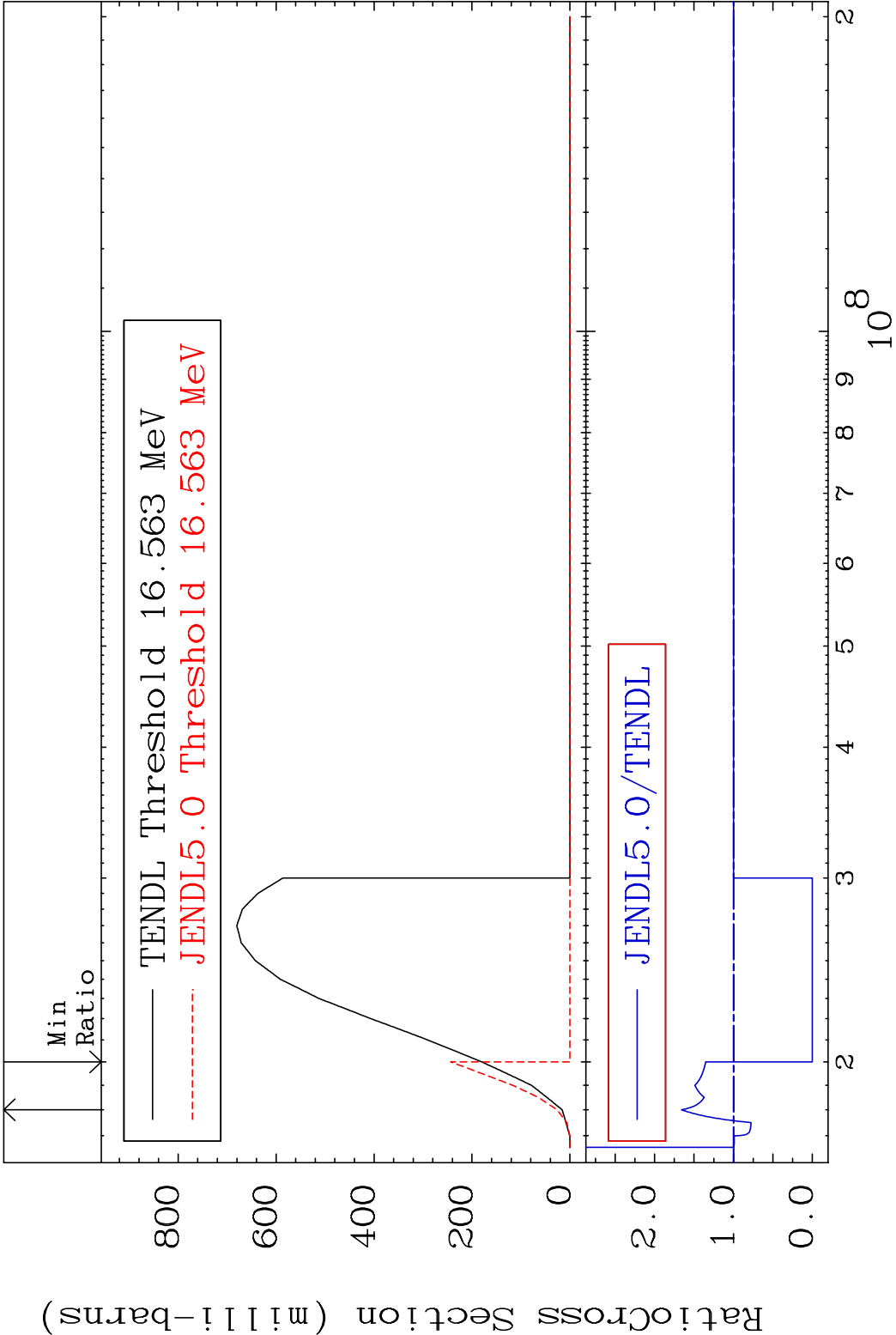


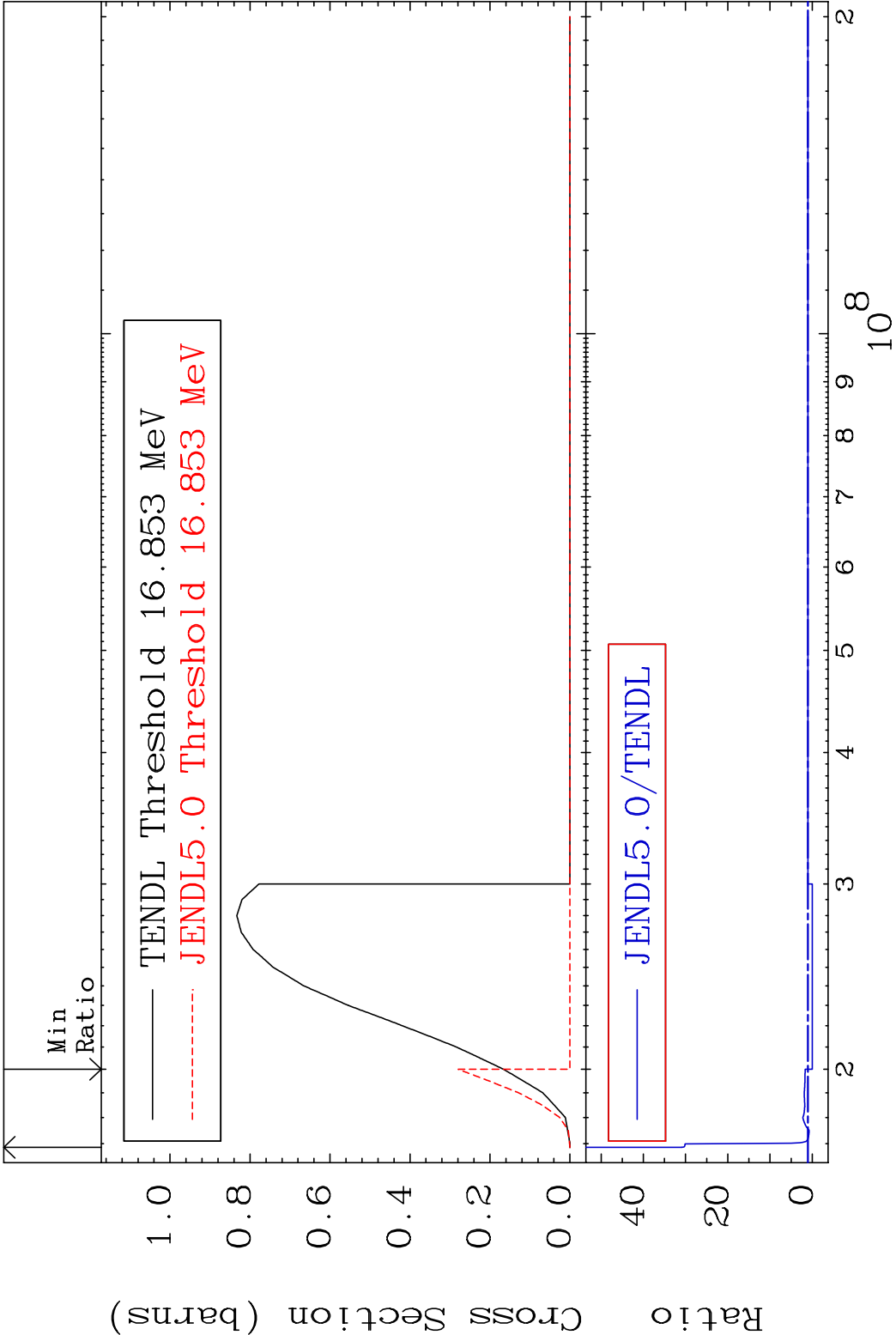
MAT 5640 Dpa disappearance (mt102 -120) 56-Ba-135
Cross Section -100.0 To 9999. %

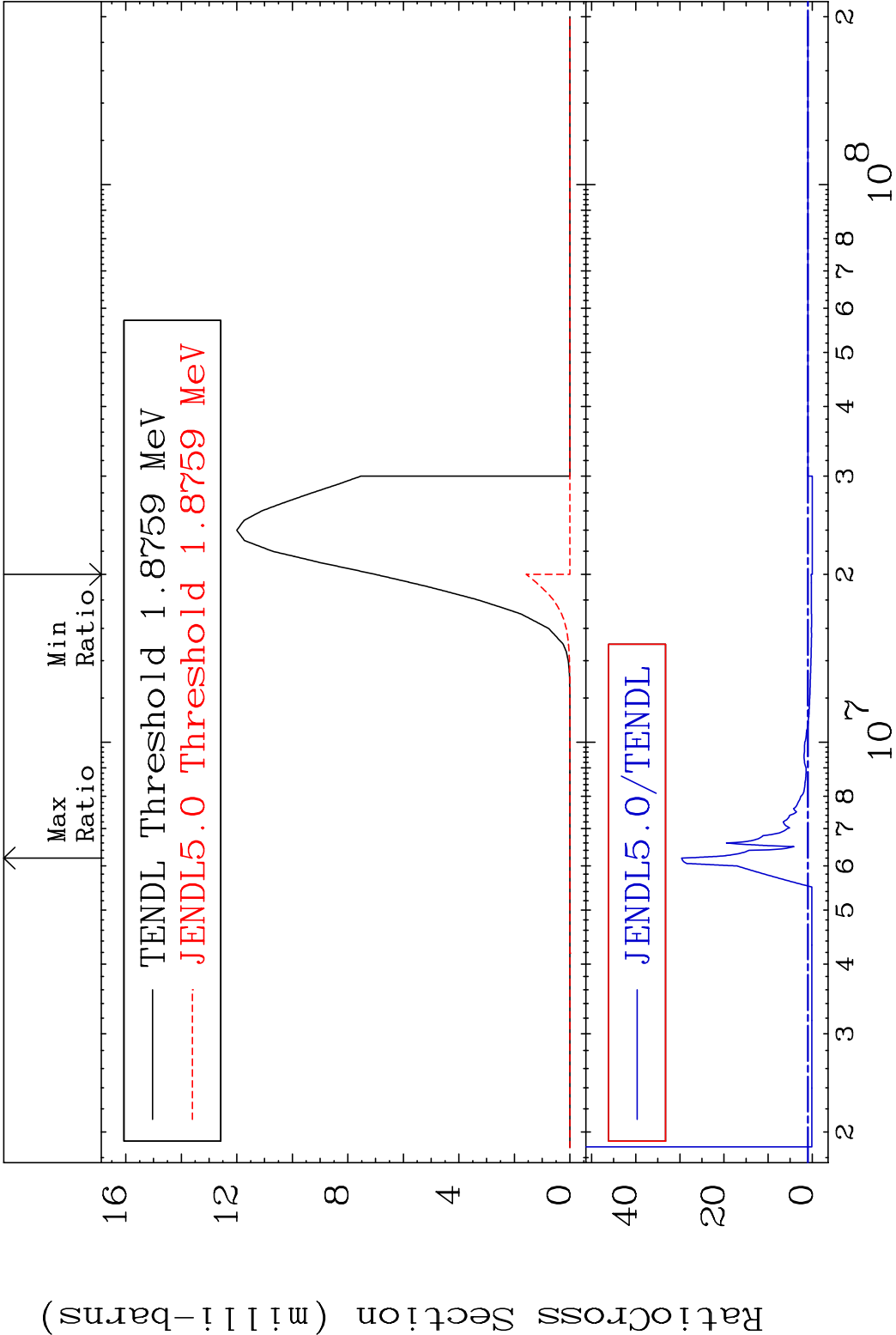


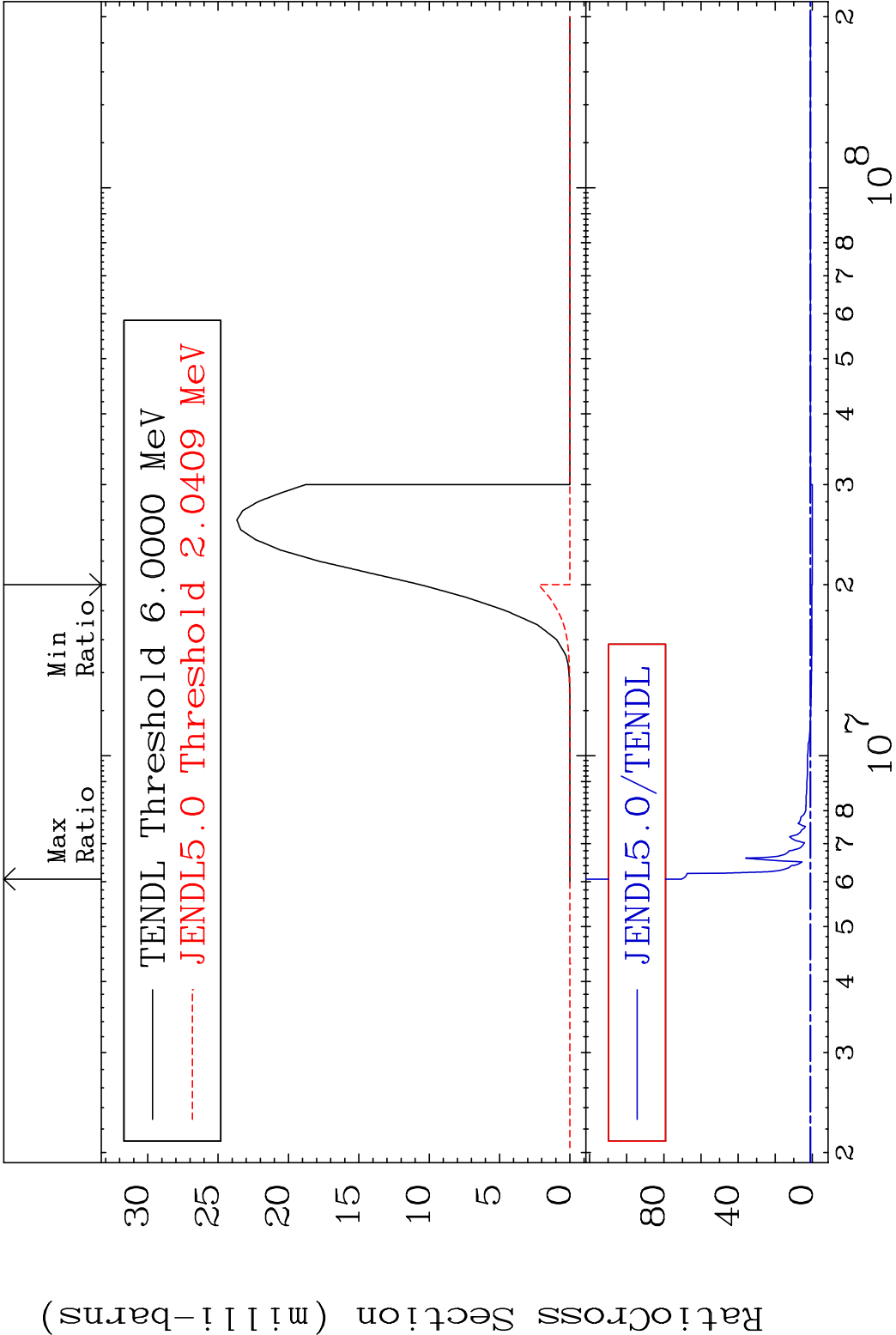
53 Incident Energy (eV) 56-Ba-135

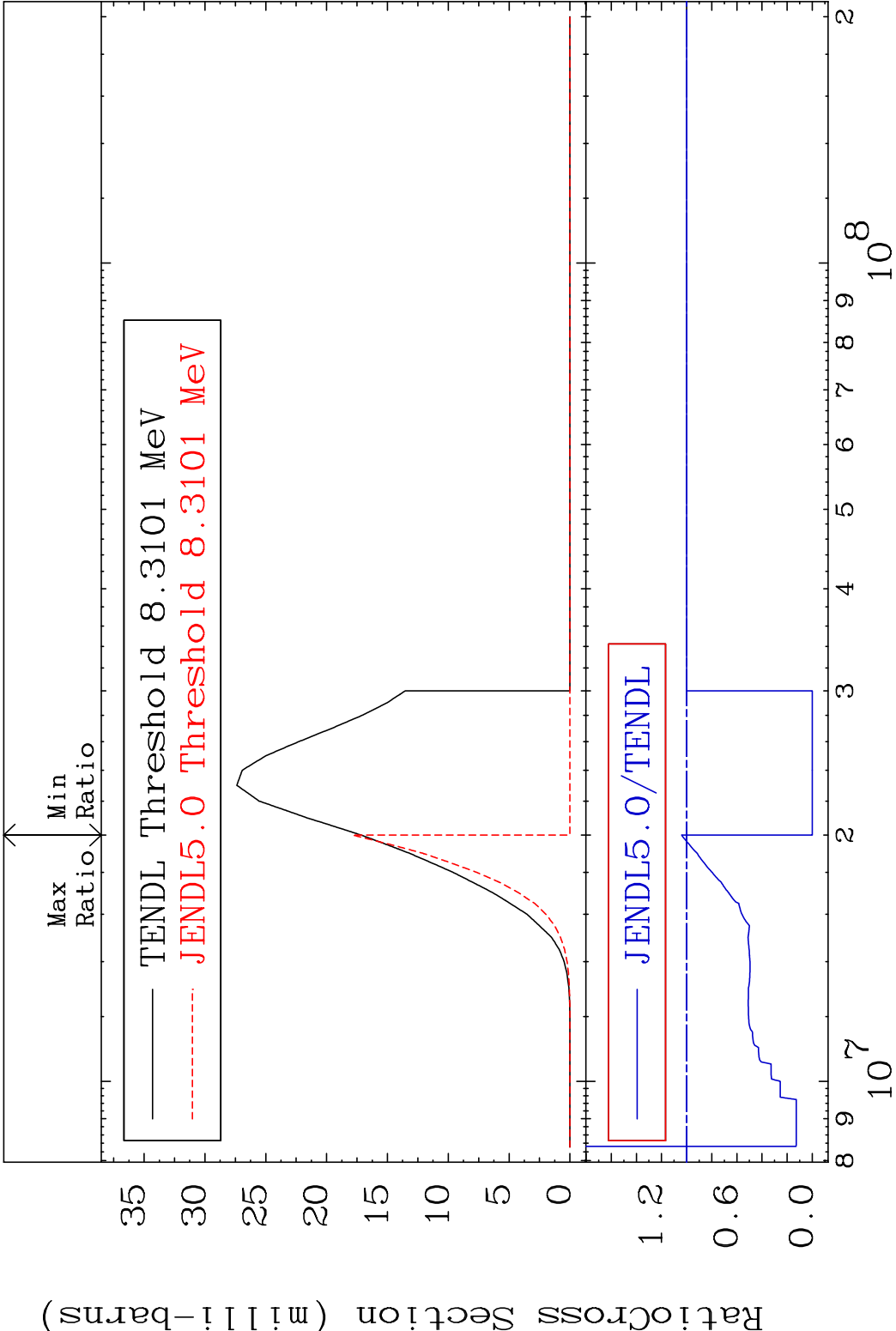


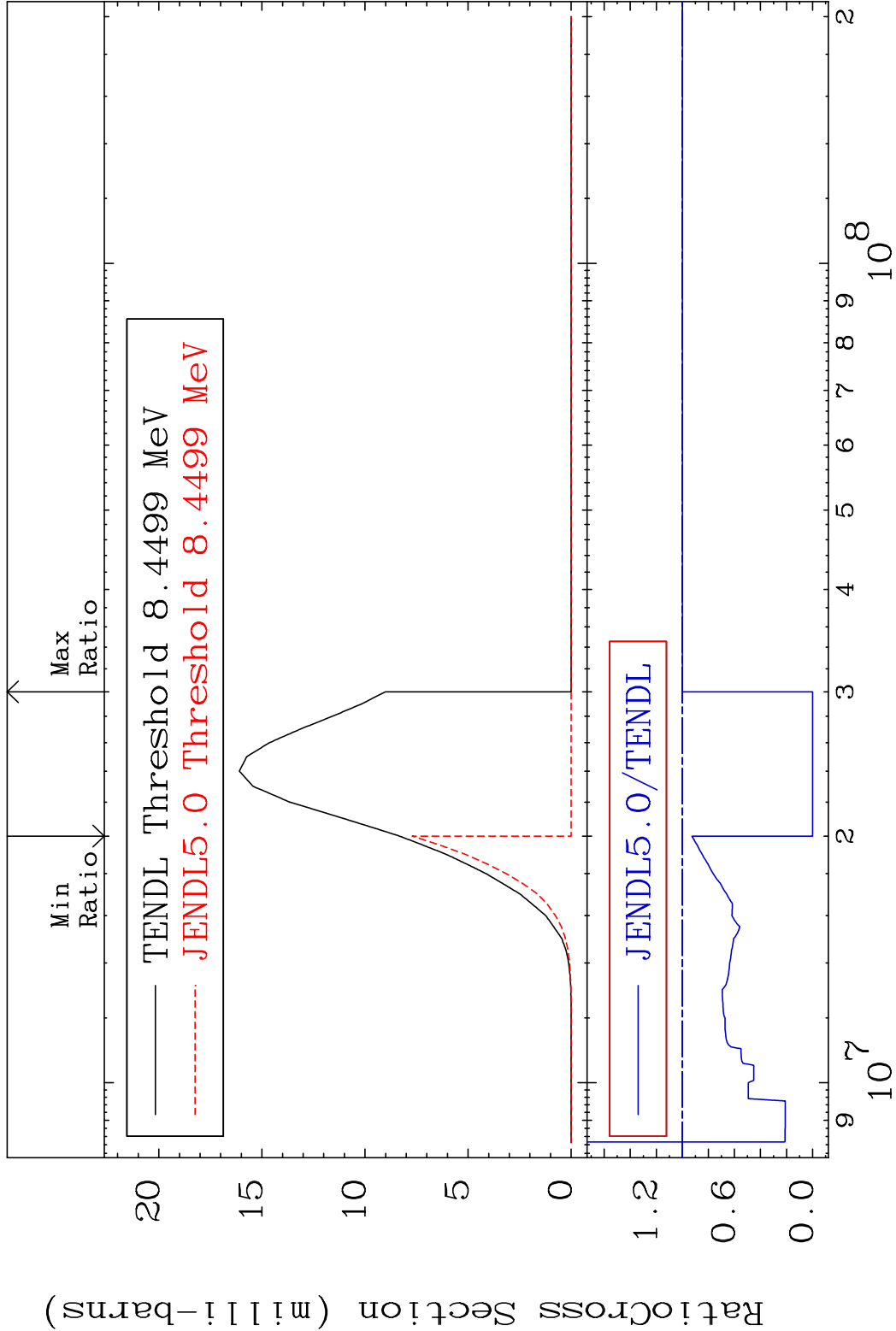


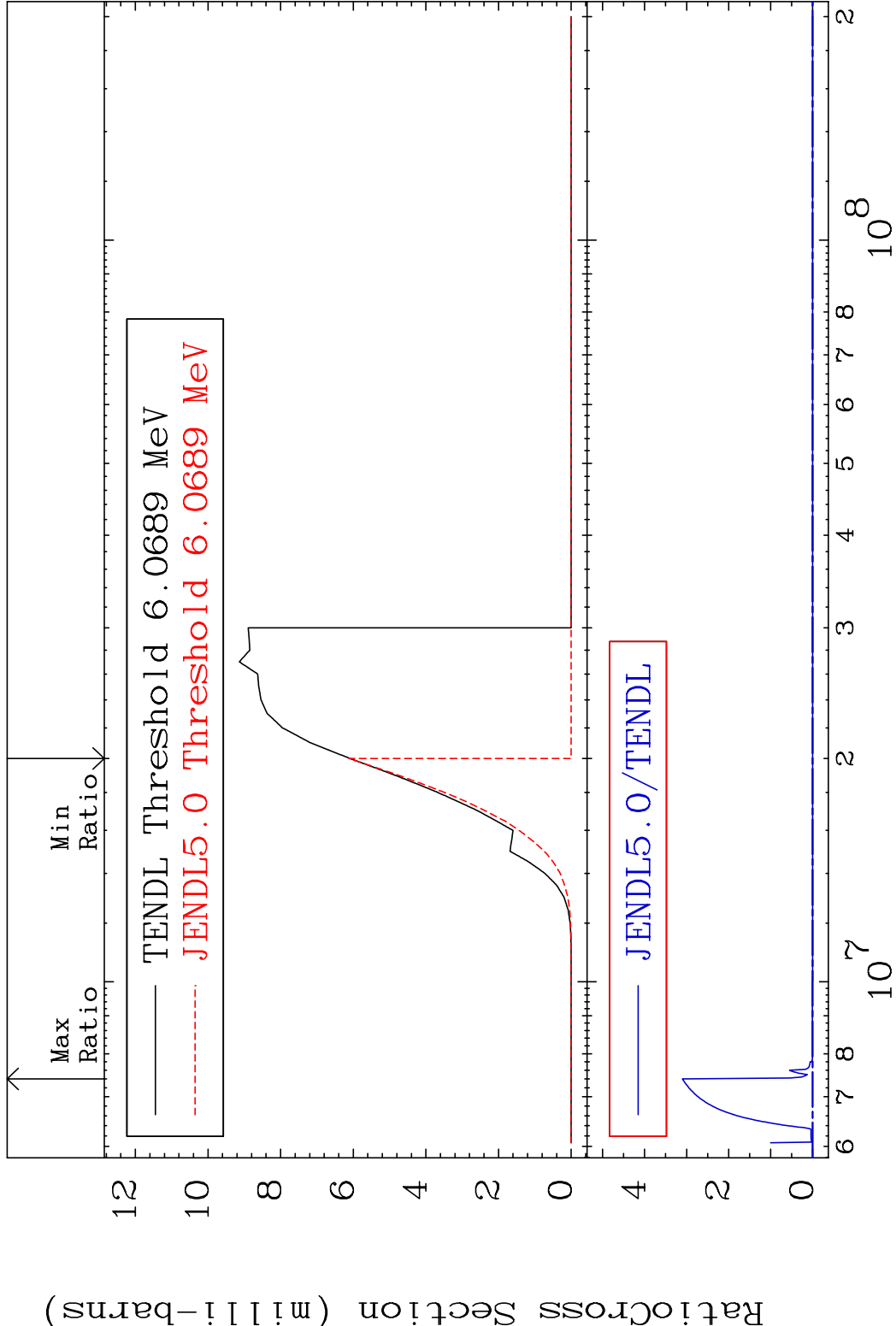


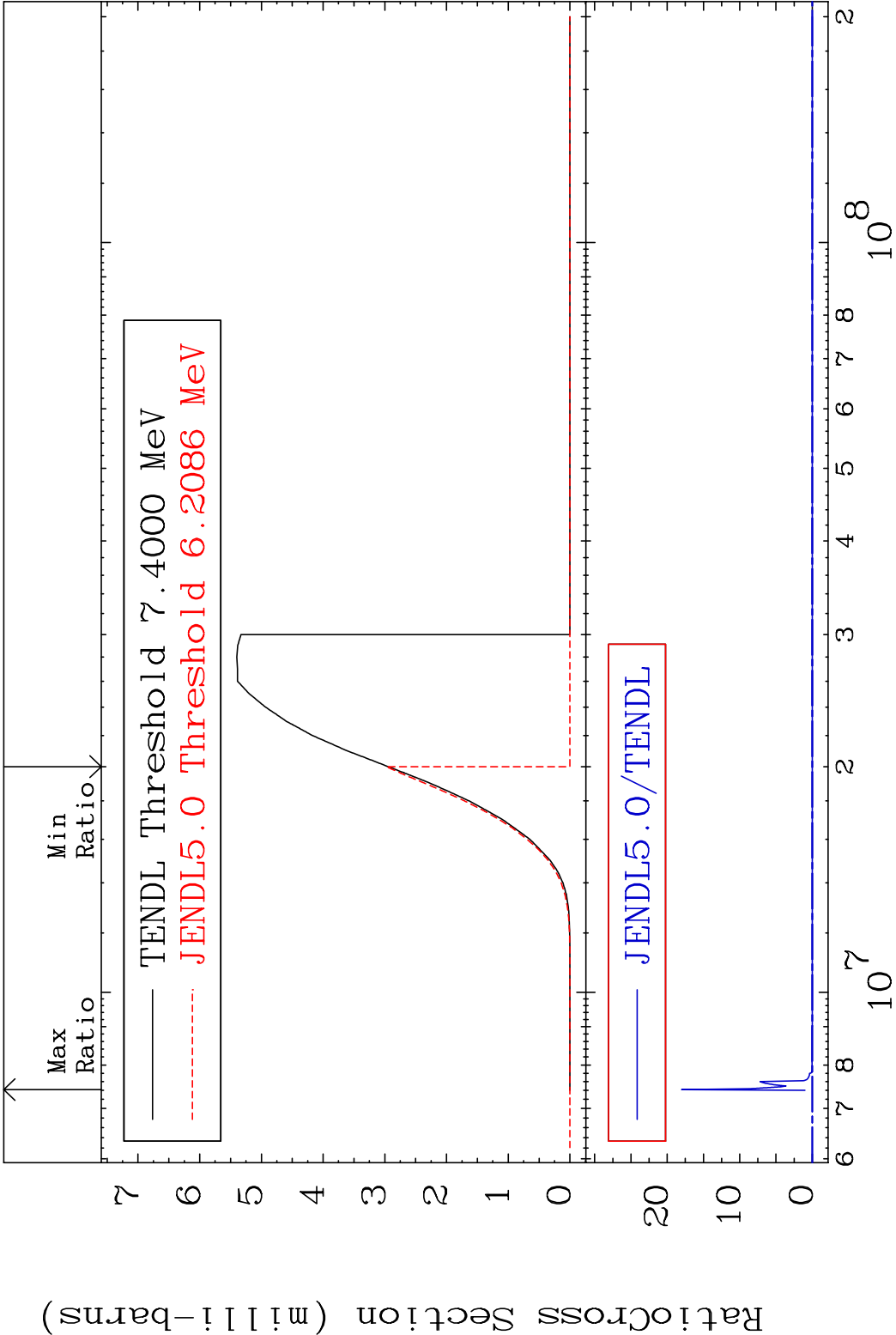


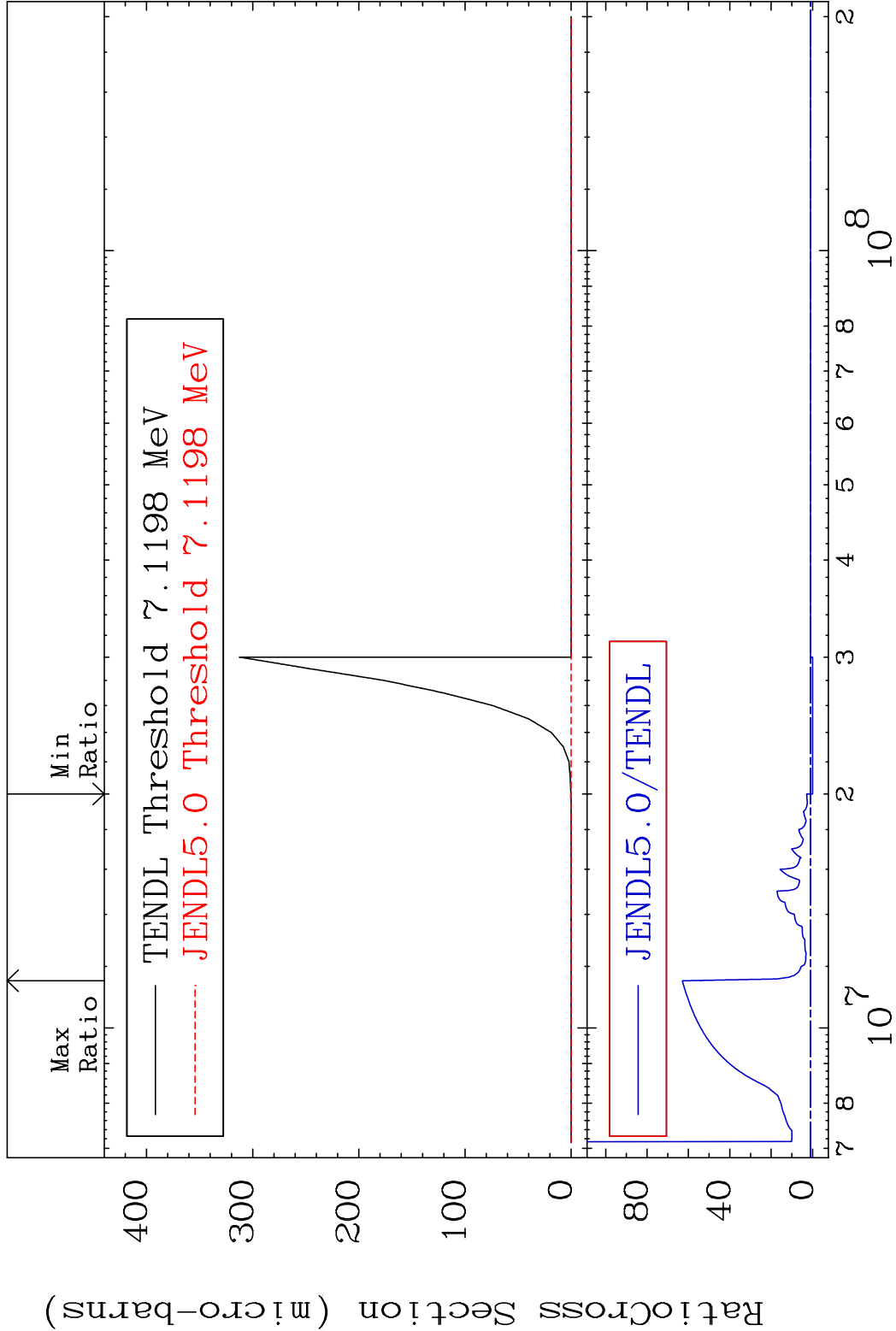




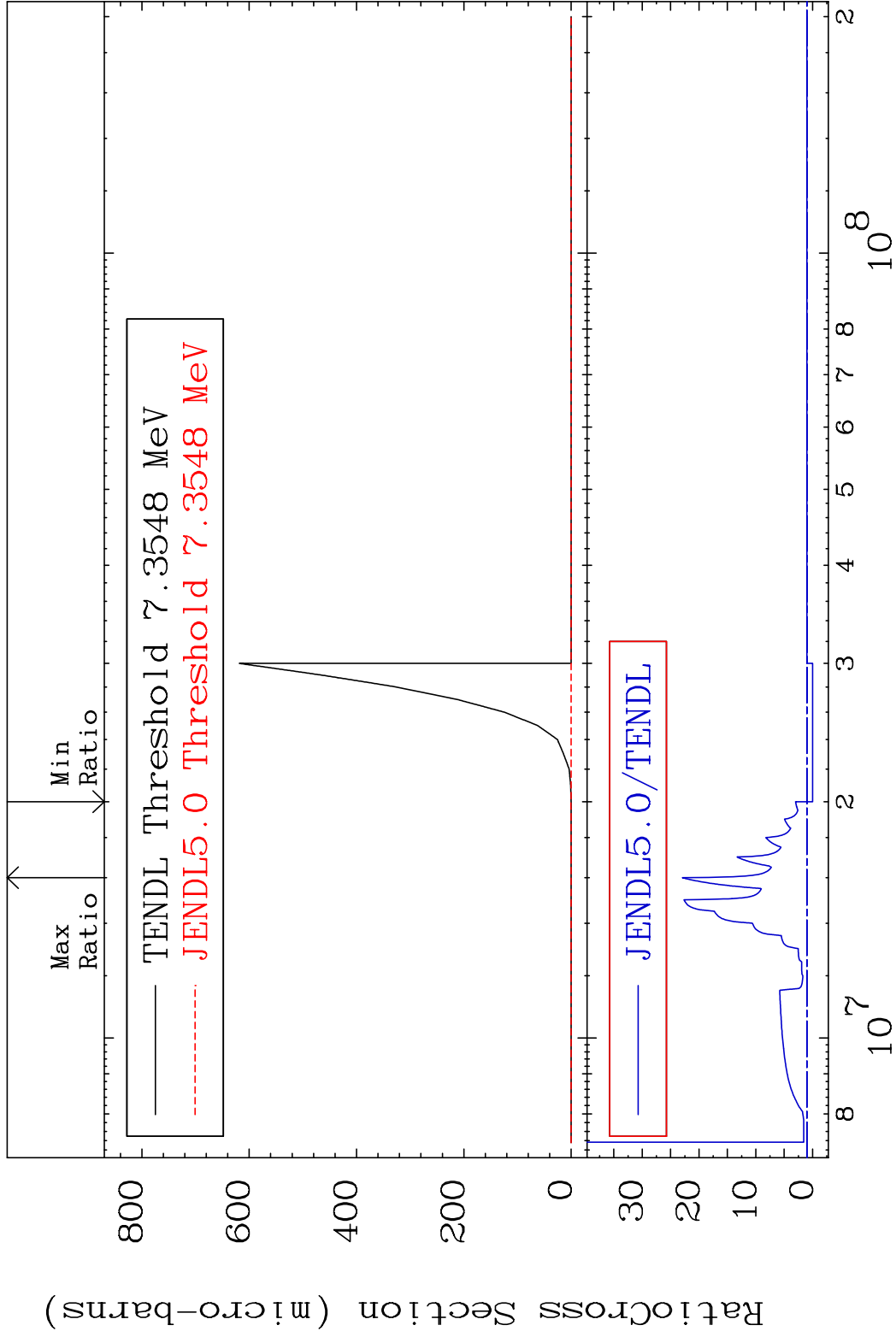




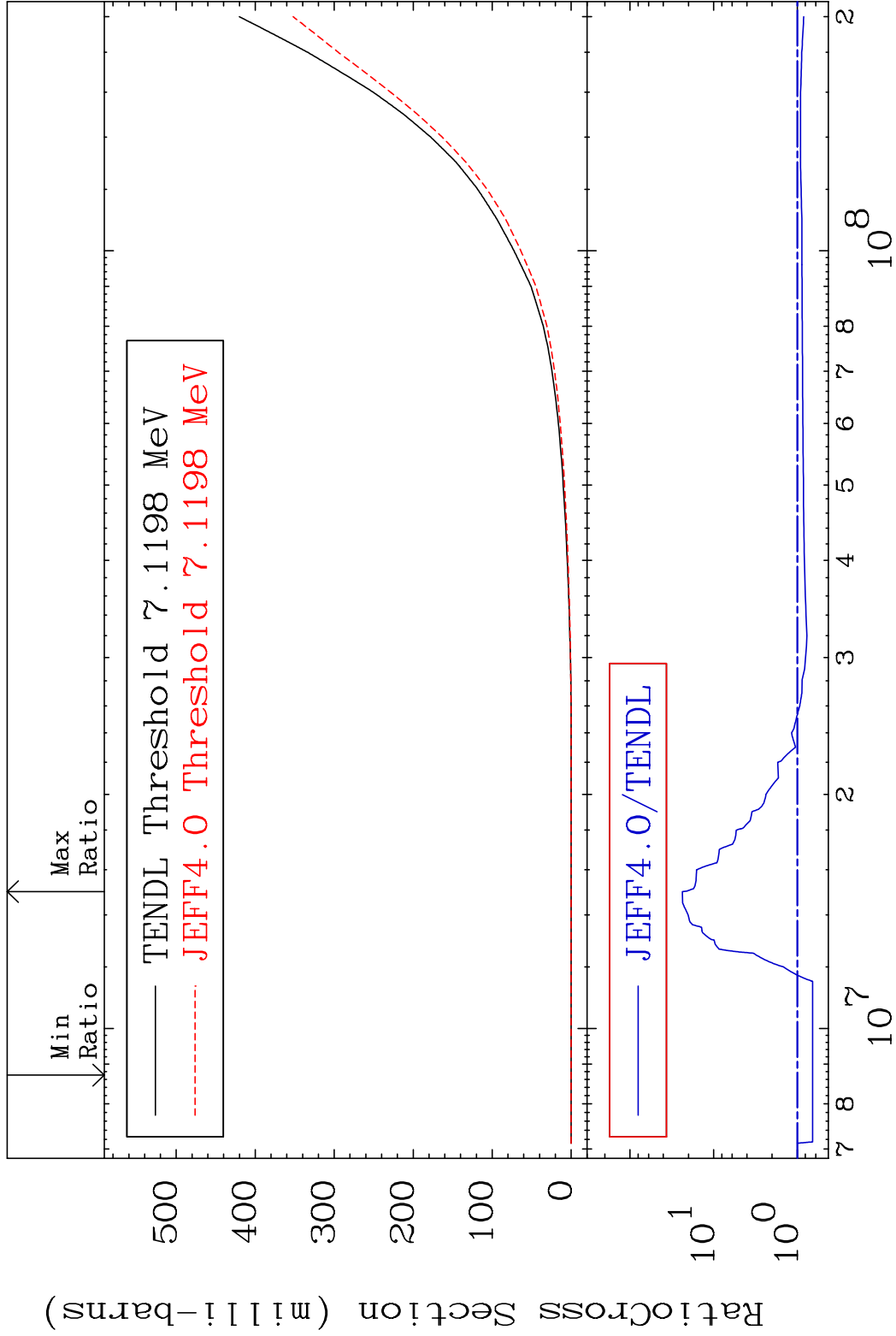




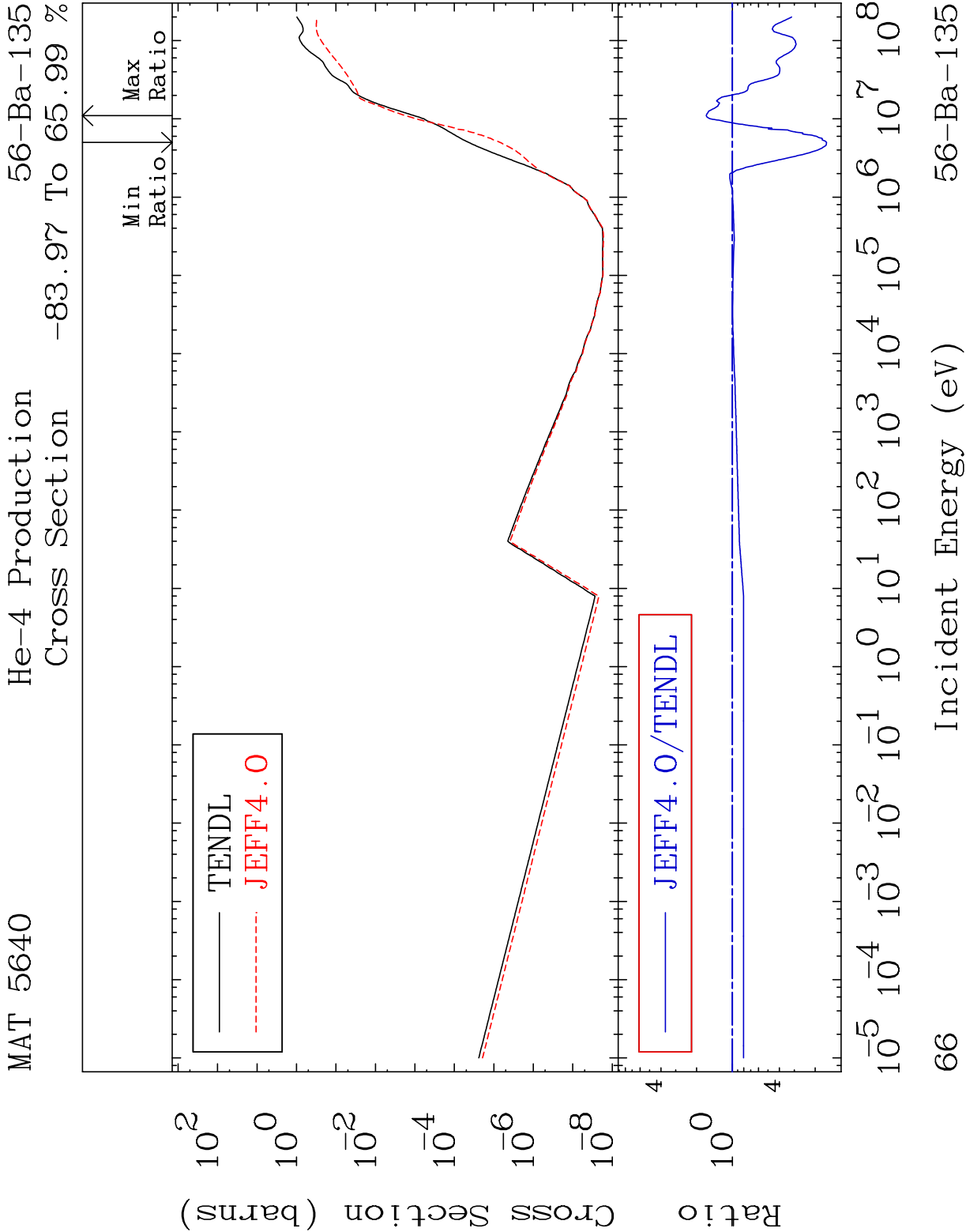
Radionuclide Production Cross Section (micro-barns)

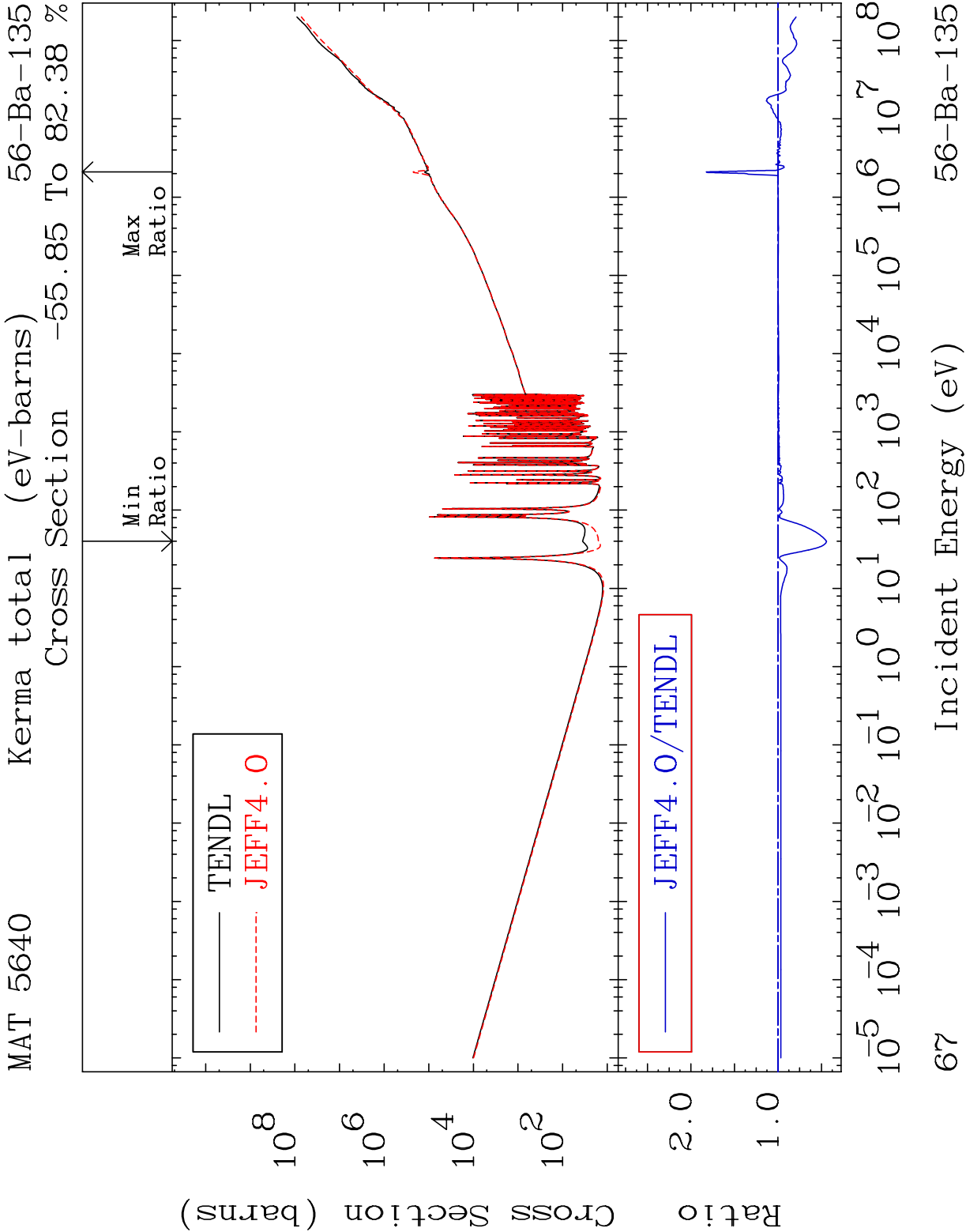


MAT 5640 He-3 Production 56-Ba-135
Cross Section -34.29 To 2266. %

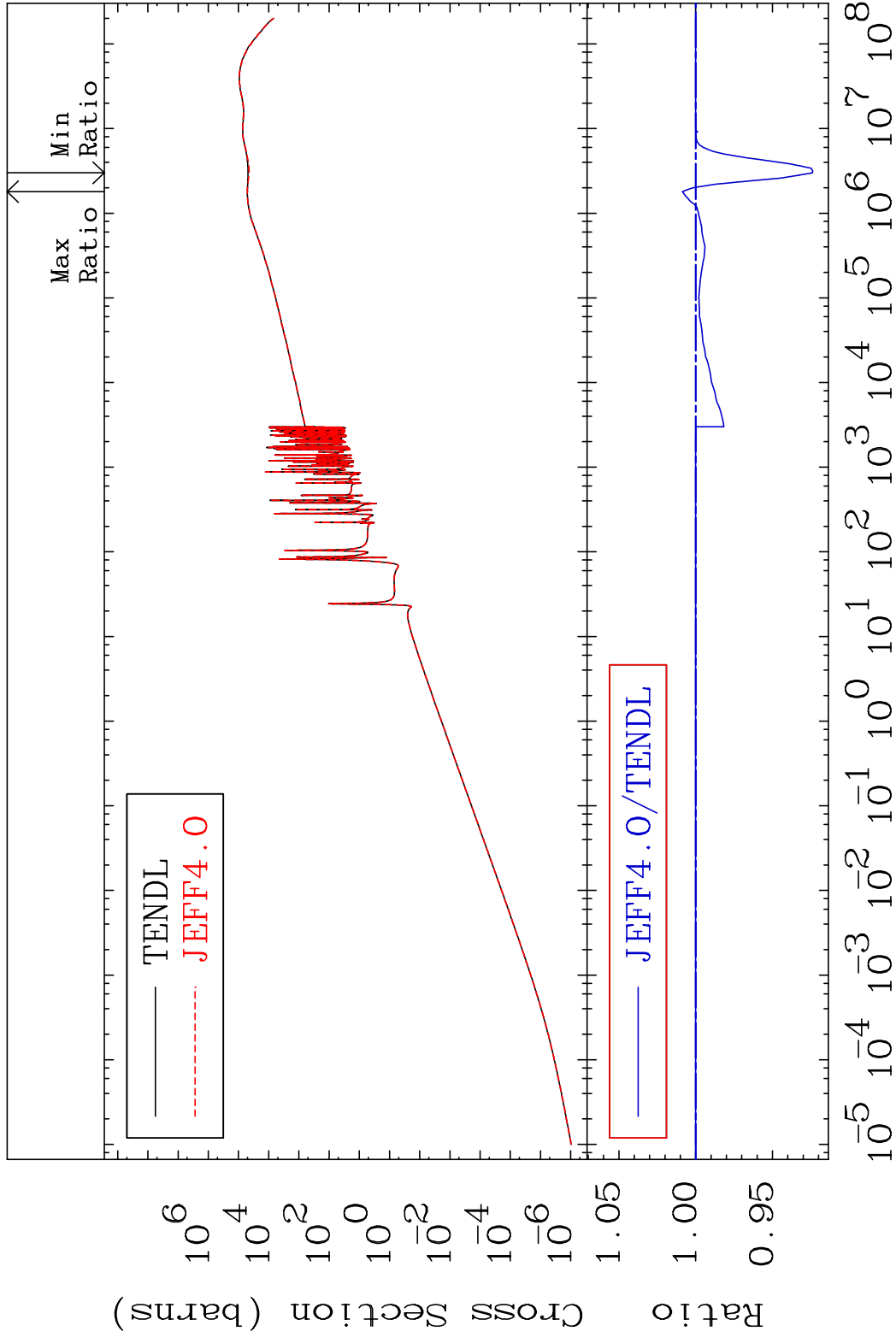


65 Incident Energy (eV) 56-Ba-135

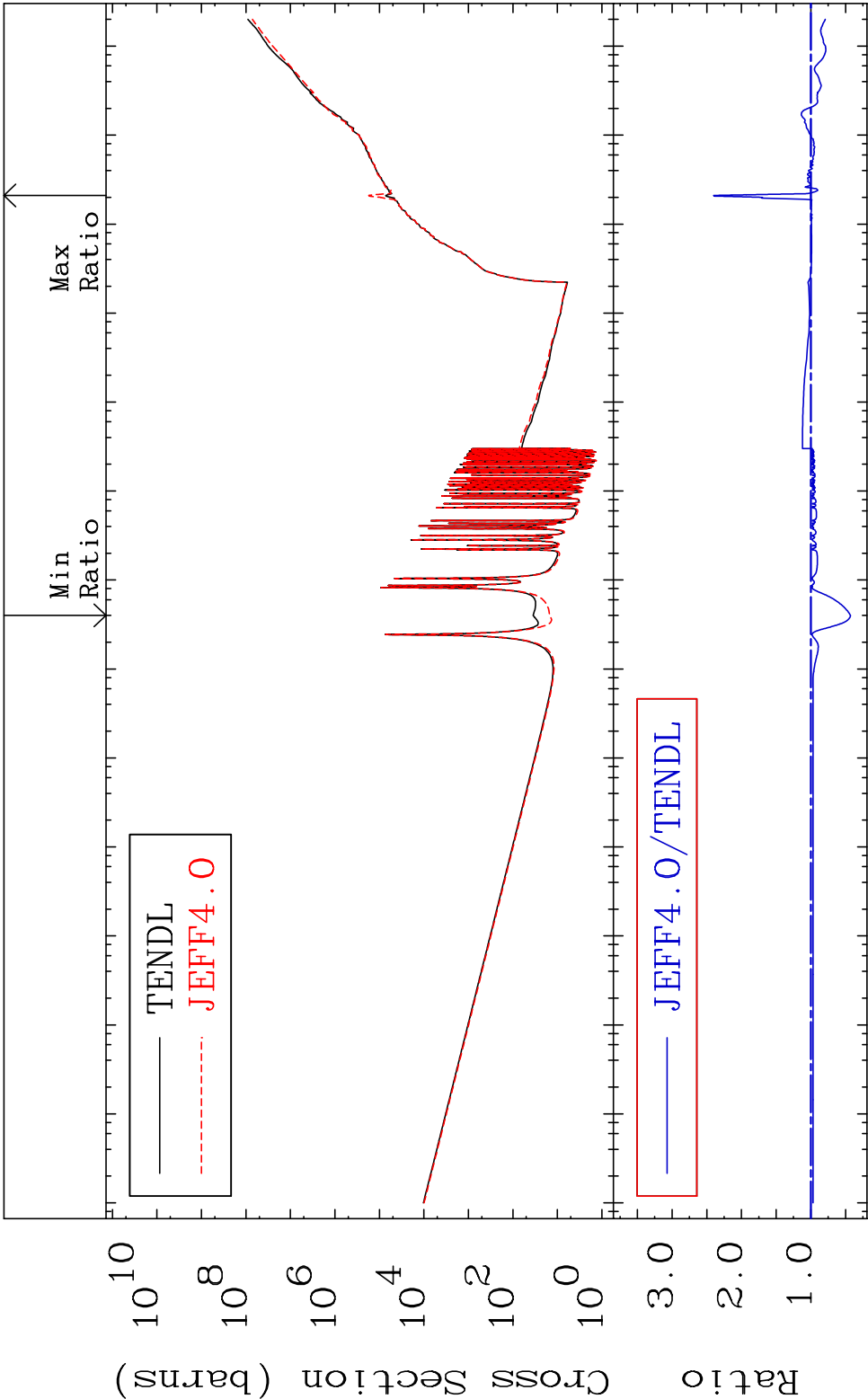




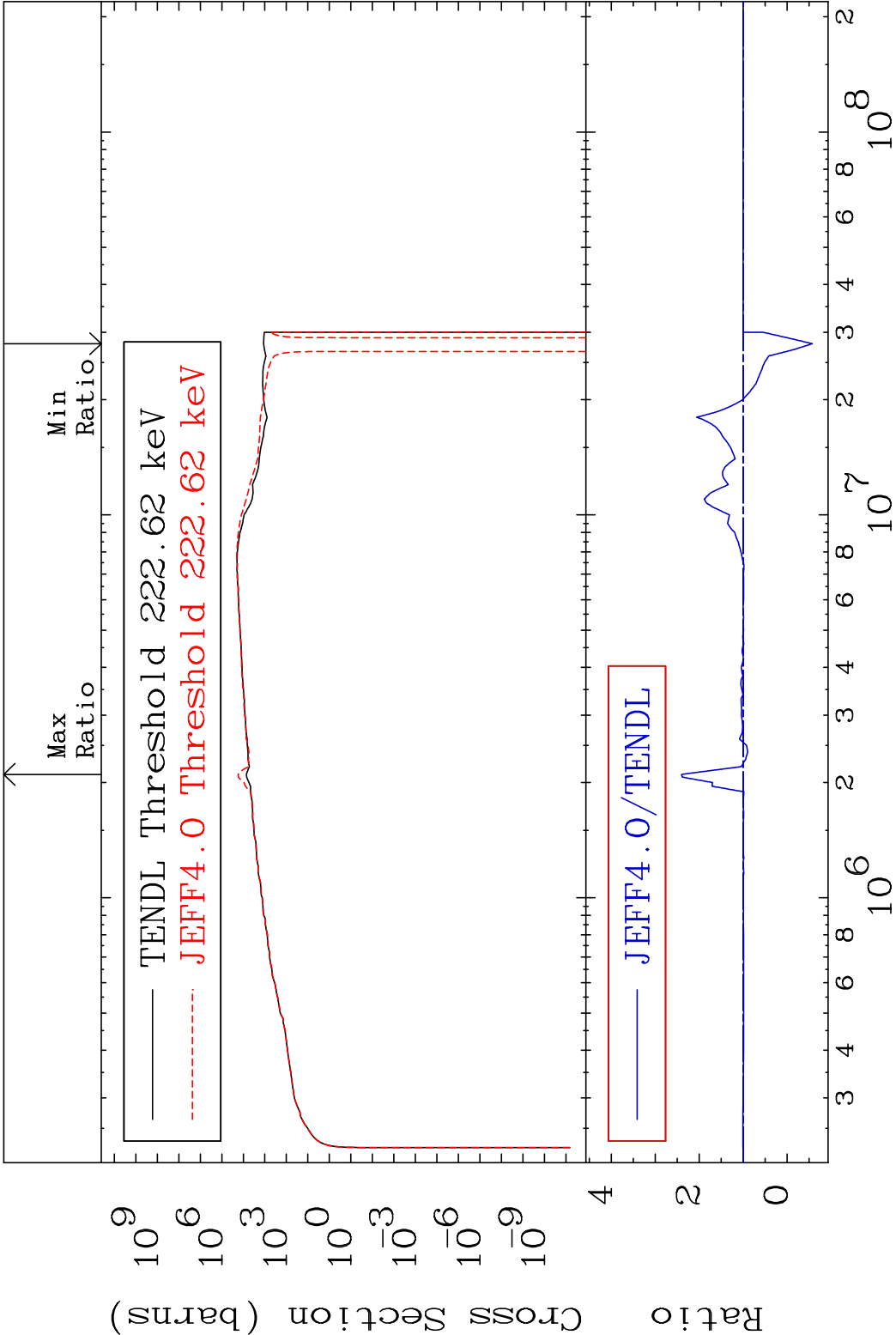
MAT 5640 Kerma elastic 56-Ba-135
Cross Section -7.612 To 0.868 %



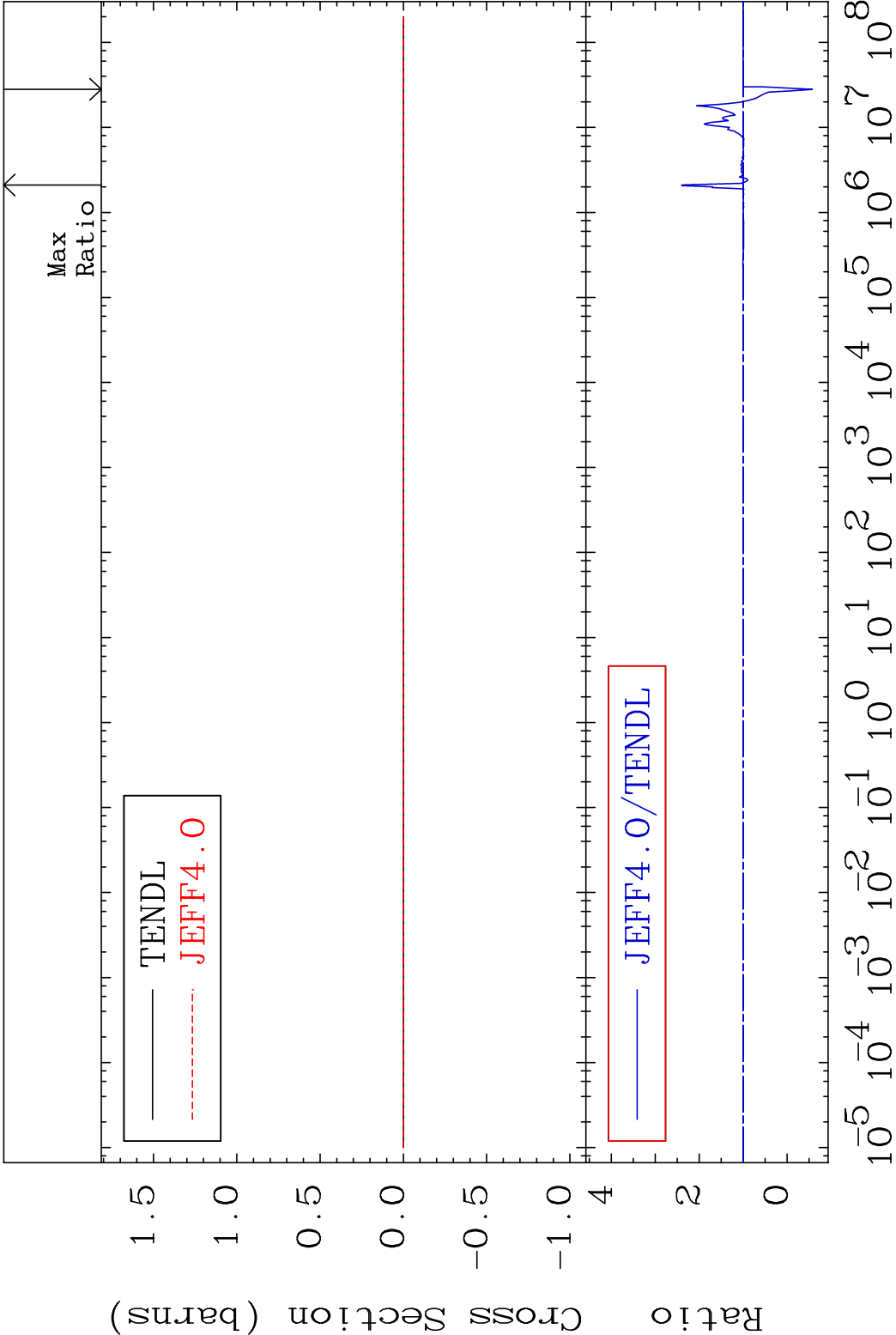
MAT 5640 Kerma non-elastic (all but mt2) 56-Ba-135
 Cross Section -56.96 To 140.2 %



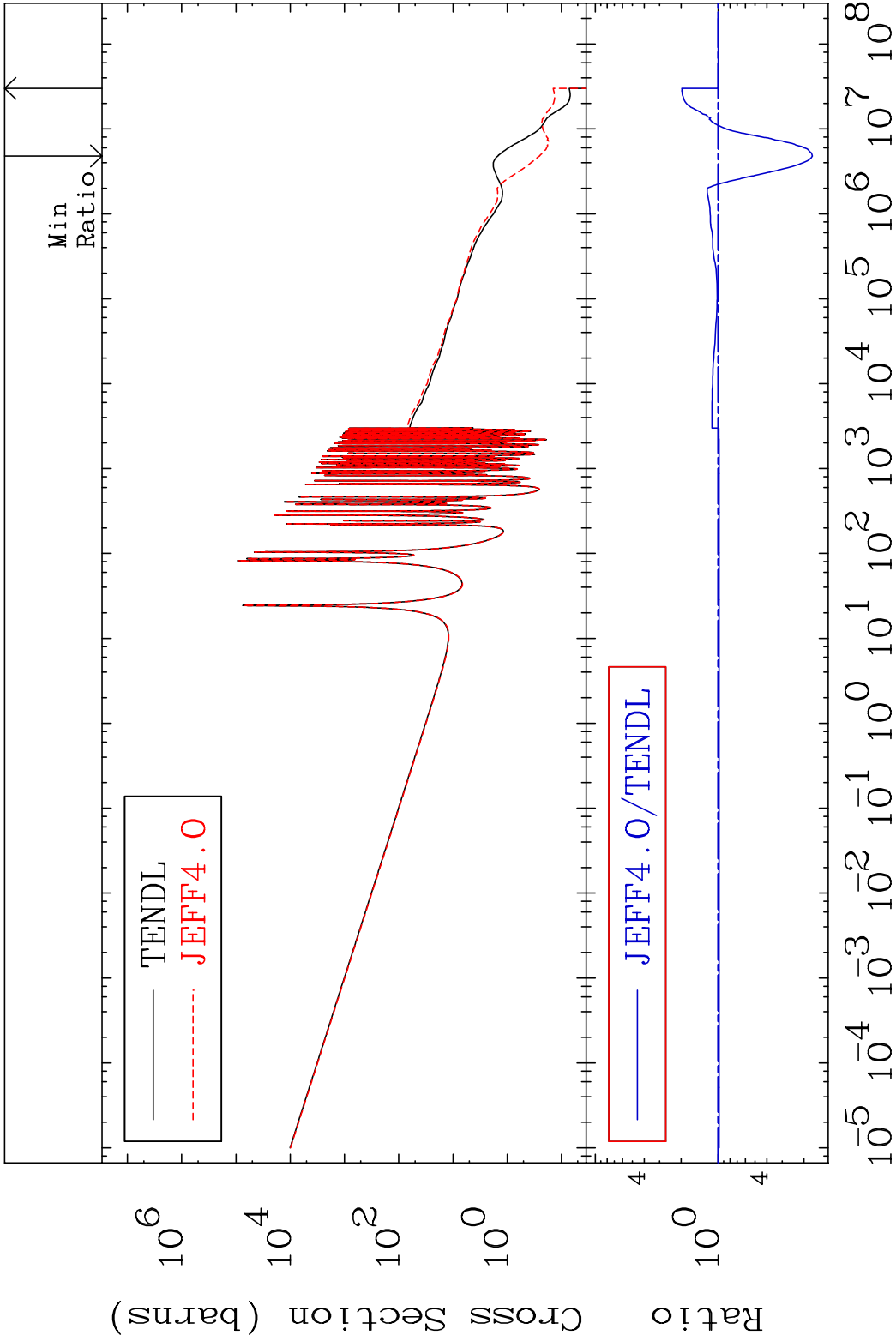
69 Incident Energy (eV) 56-Ba-135



MAT 5640 Kerma fission (mt18 or mt19-20-21-38)56-Ba-135
Cross Section -157.4 To 140.2 %

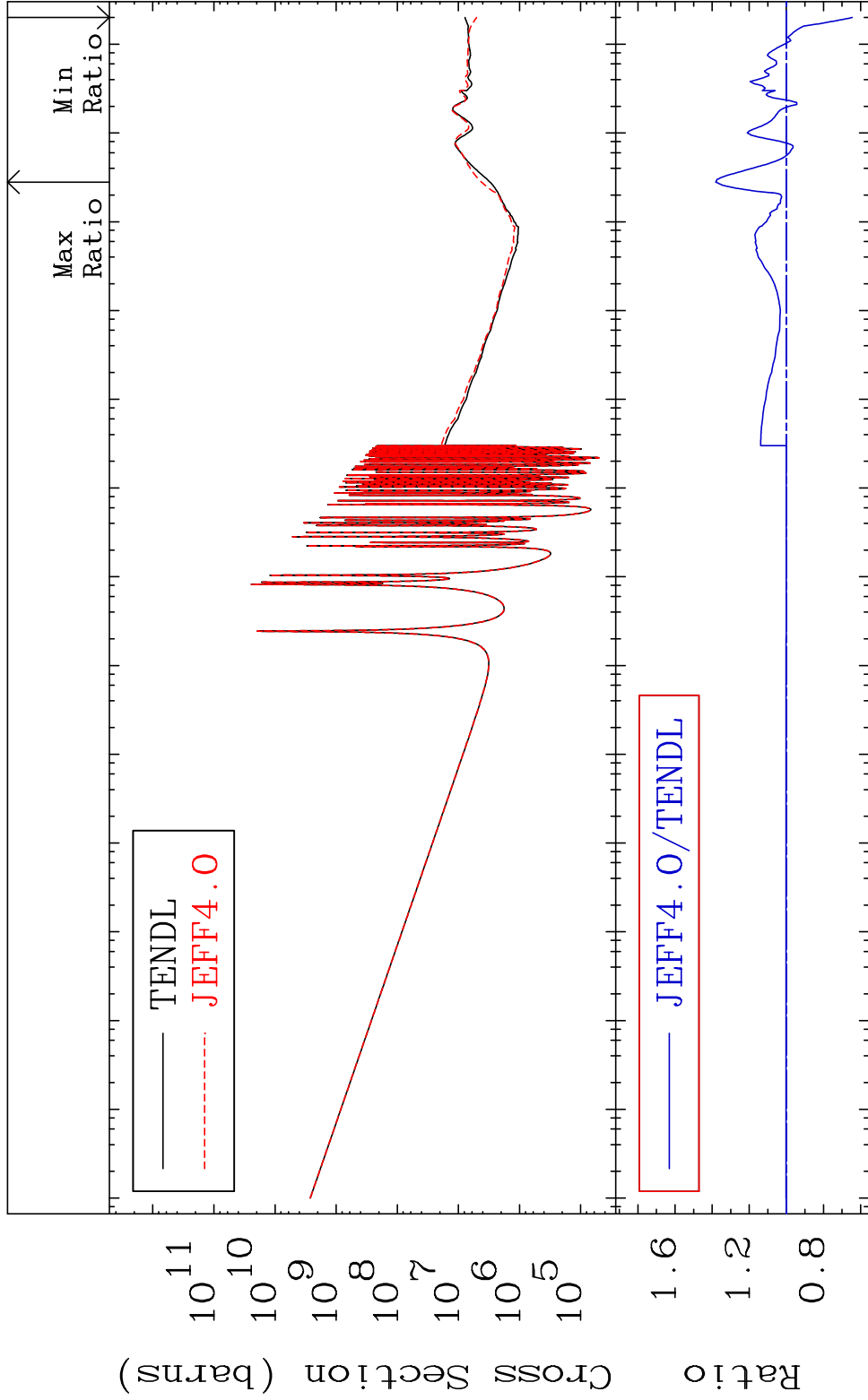


MAT 5640 Kerma capture (mt102) 56-Ba-135
Cross Section -82.92 To 97.70 %



72 Incident Energy (eV) 56-Ba-135

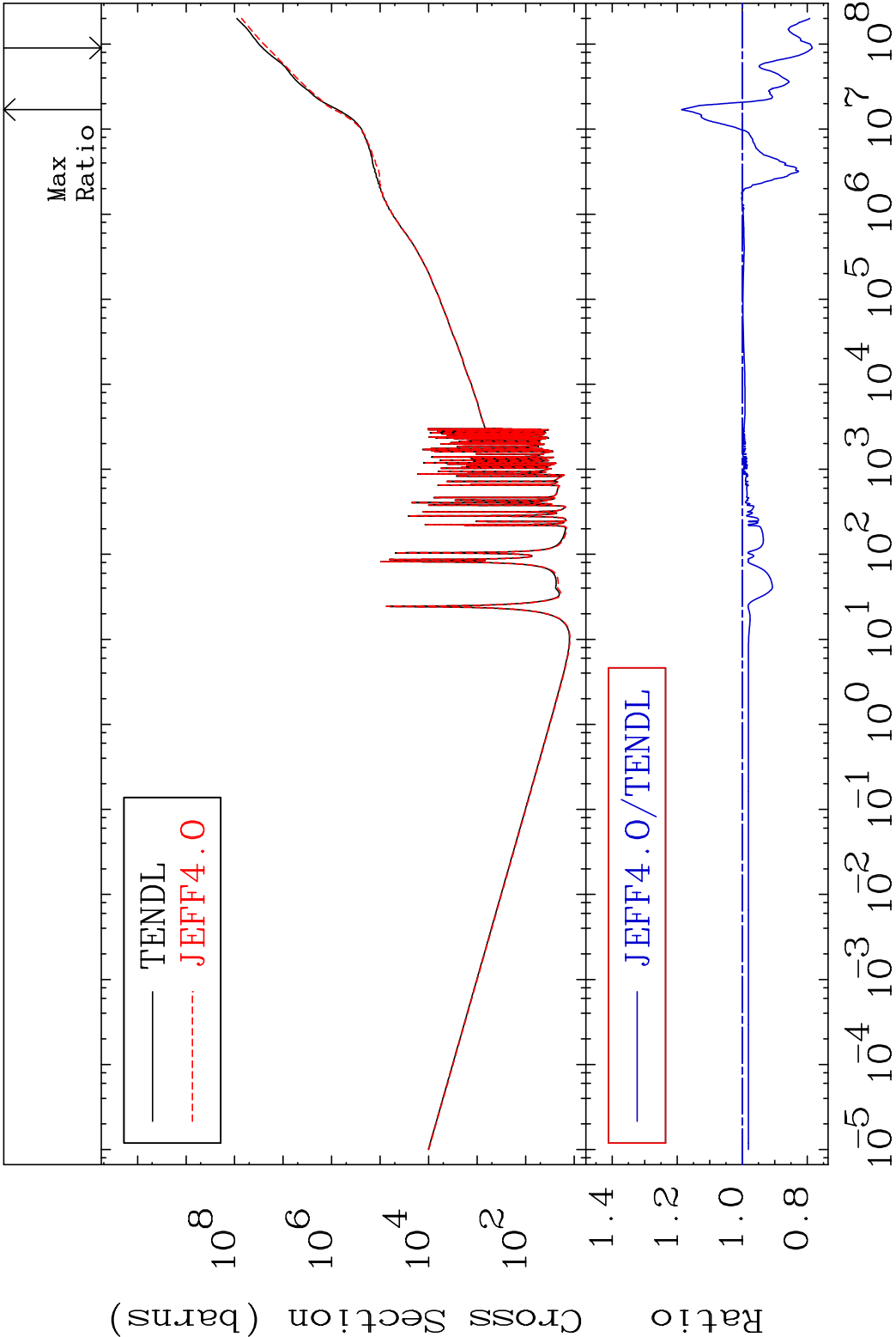
MAT 5640 Total photon (eV-barns) 56-Ba-135
Cross Section -35.48 To 38.11 %

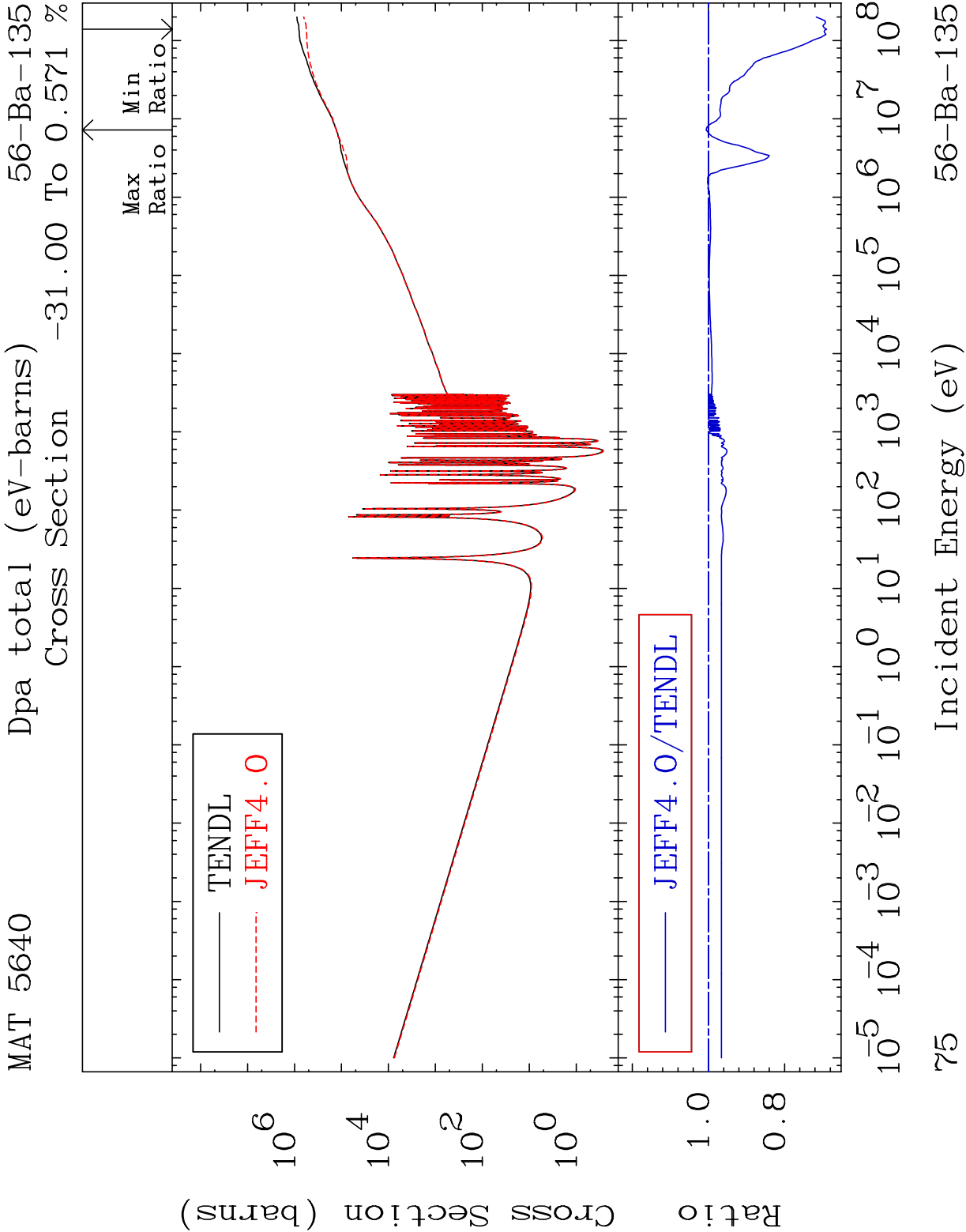


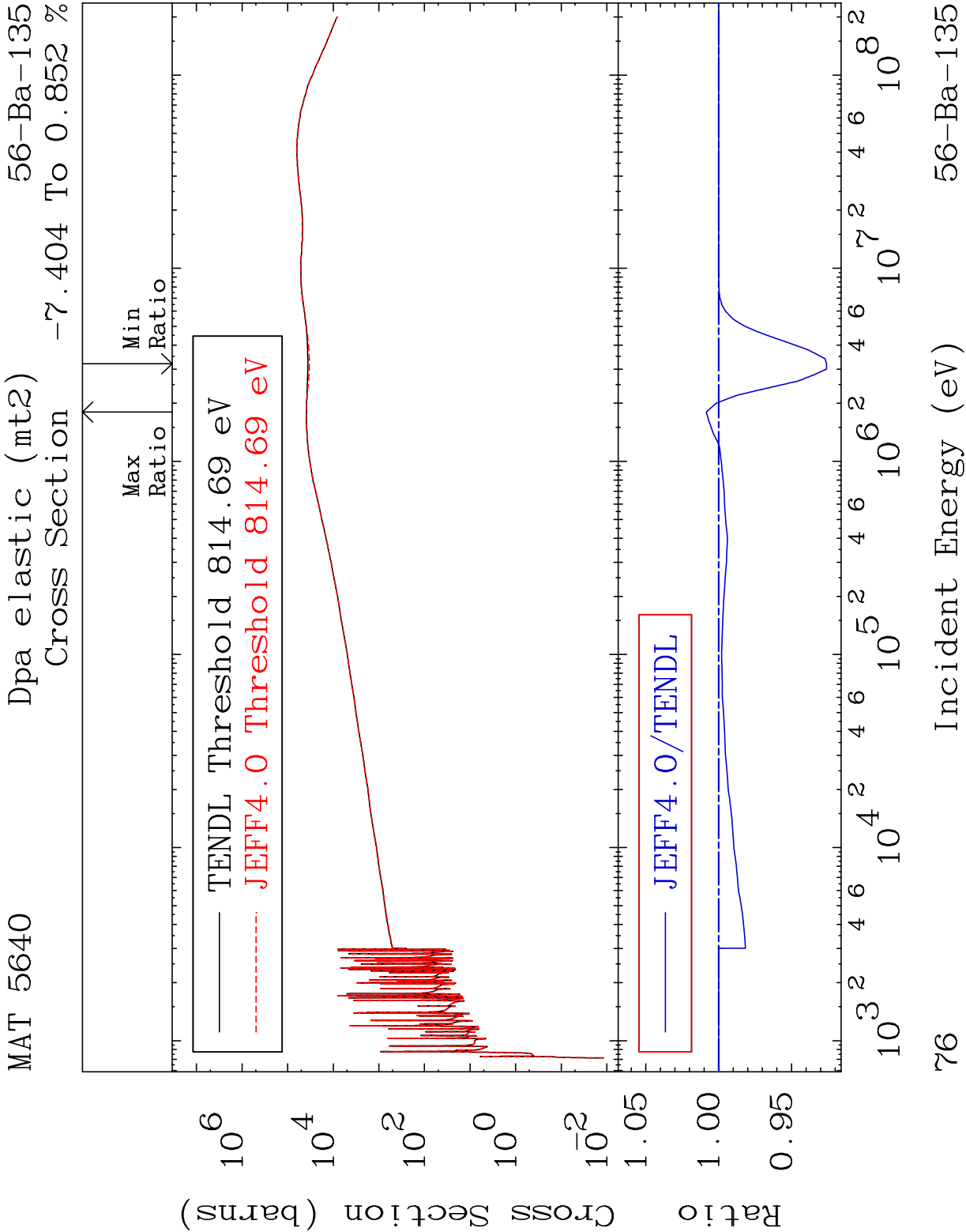
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

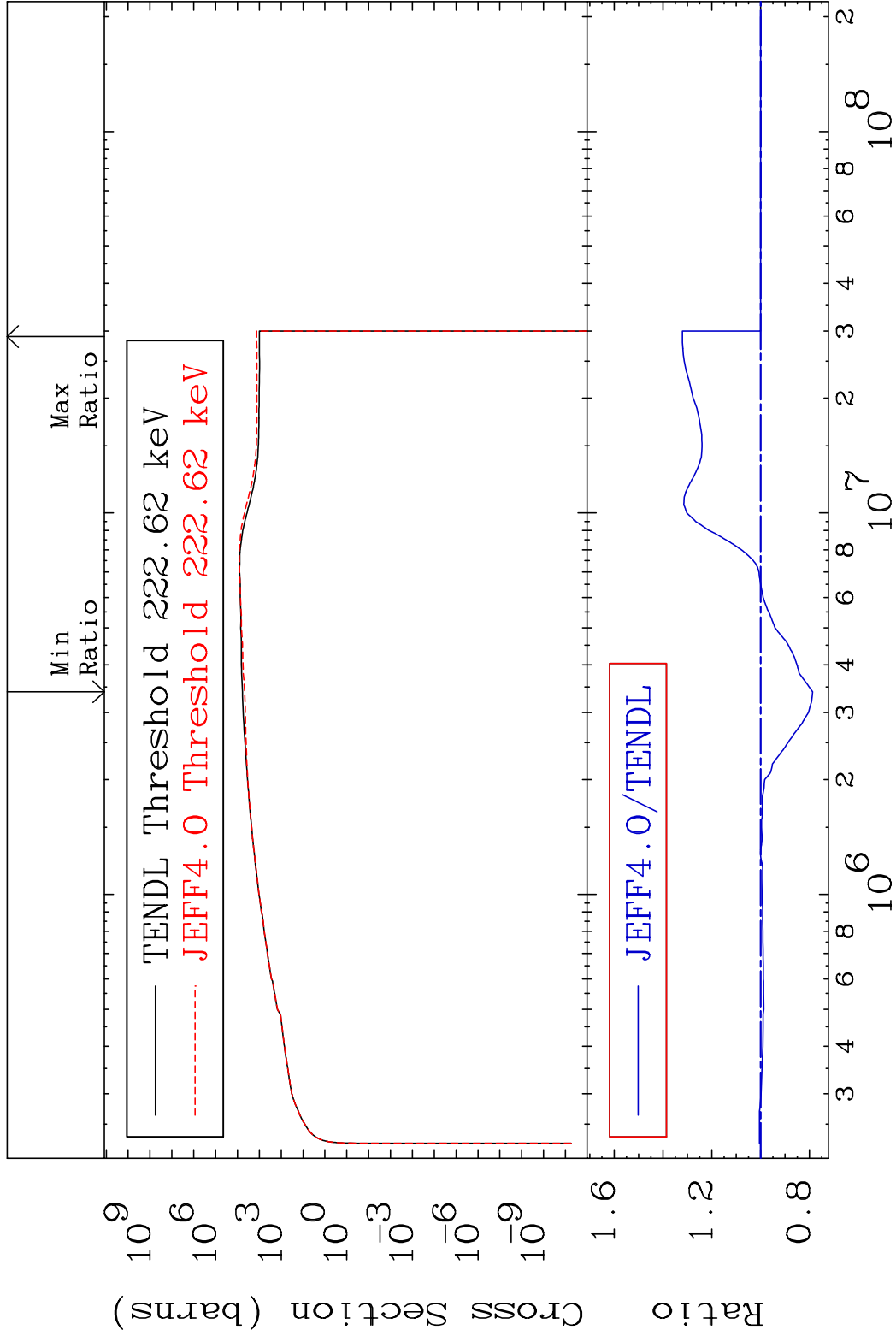
73 Incident Energy (eV) 56-Ba-135

MAT 5640 Total kinematic kerma (high limit) 56-Ba-135
Cross Section -21.55 To 18.68 %

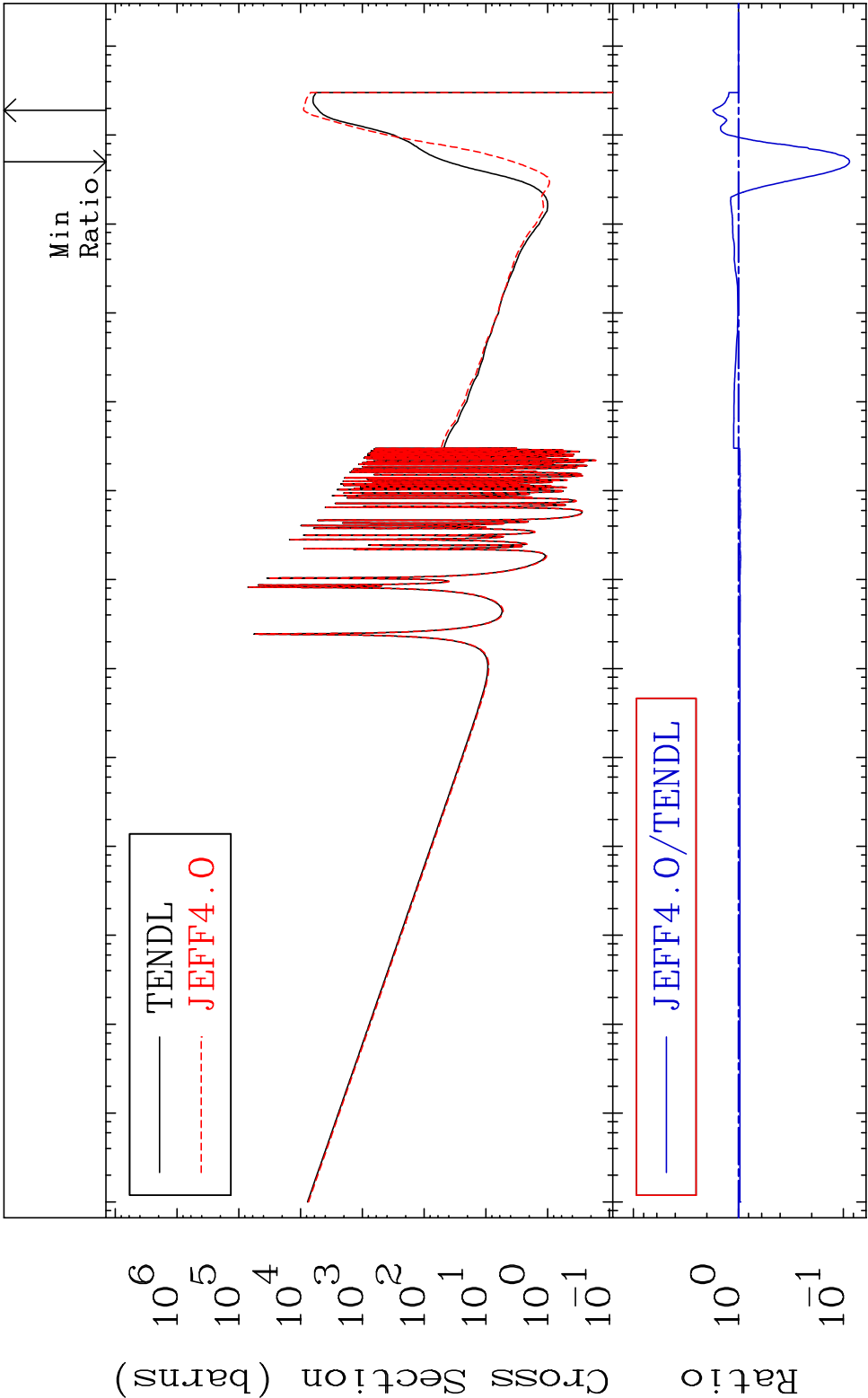




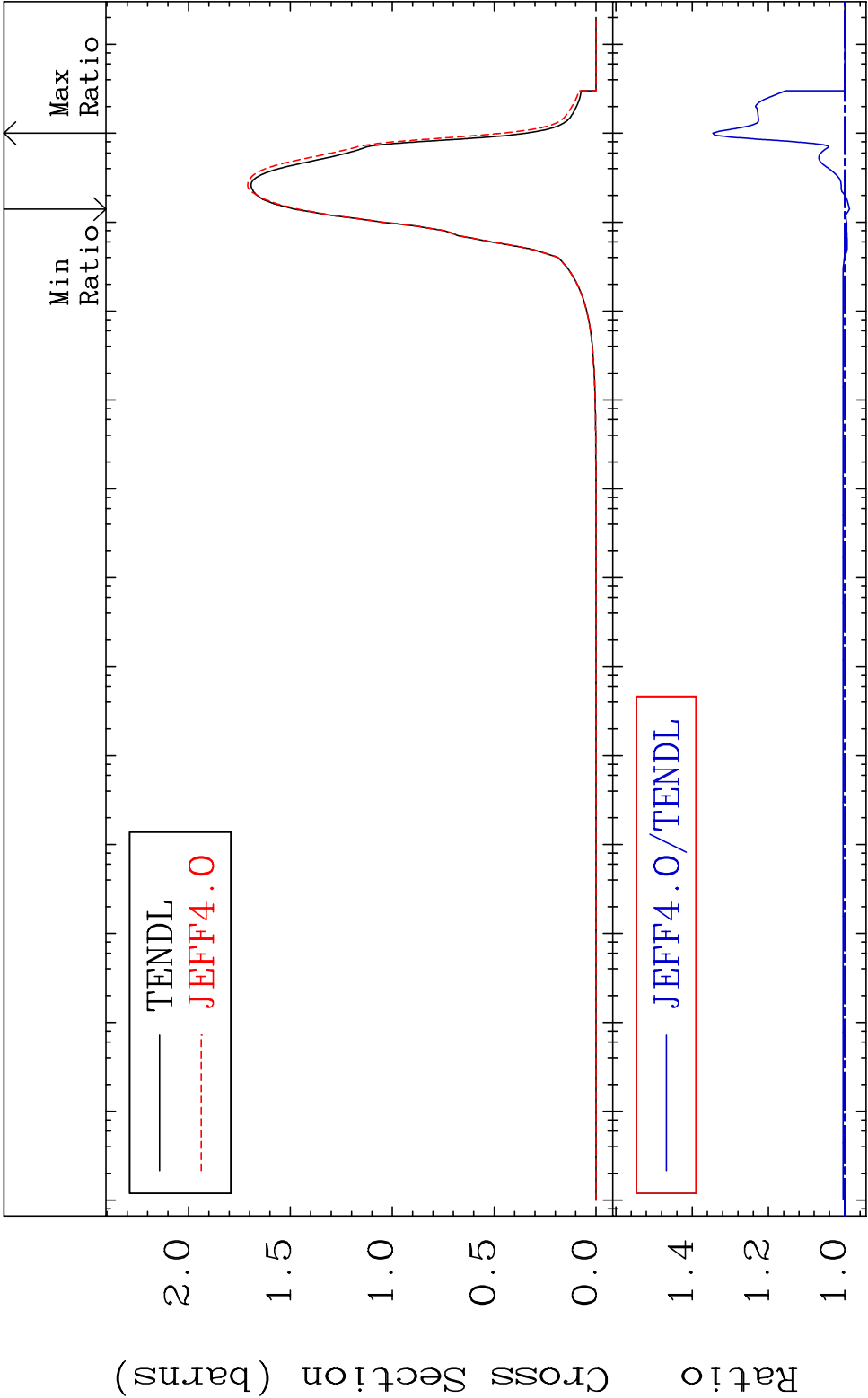


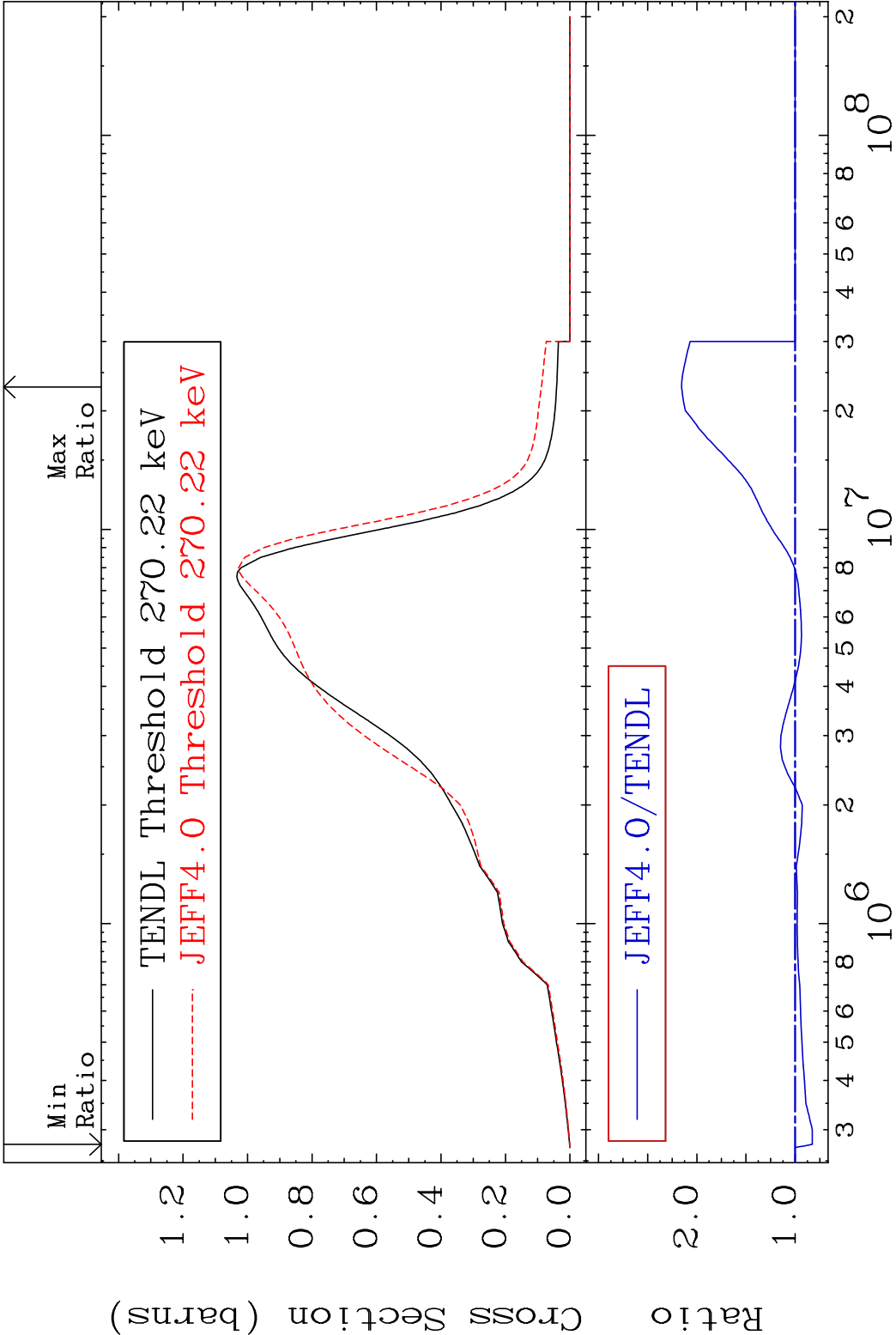


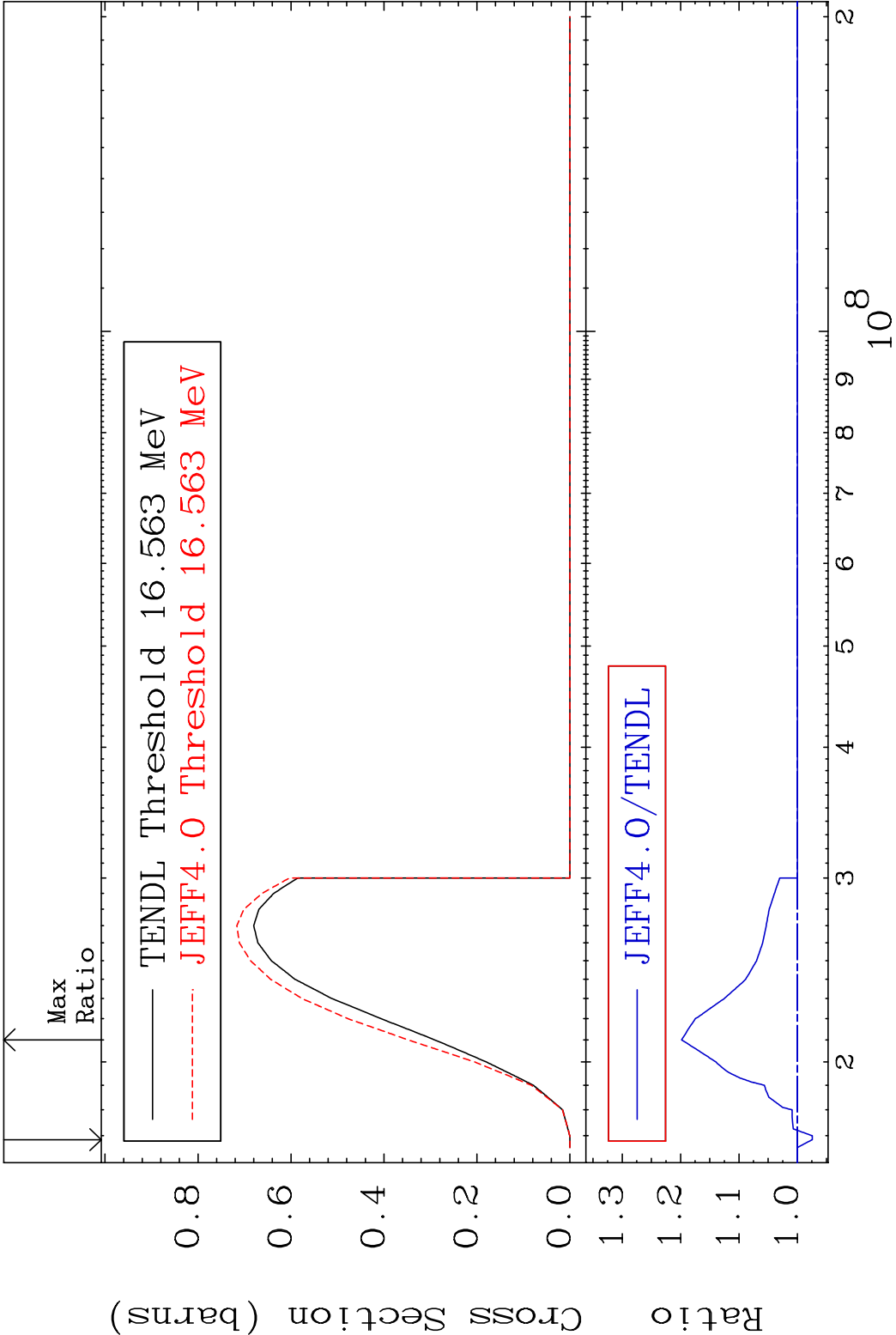
MAT 5640 Dpa disappearance (mt102 -120) 56-Ba-135
Cross Section -91.28 To 75.21 %

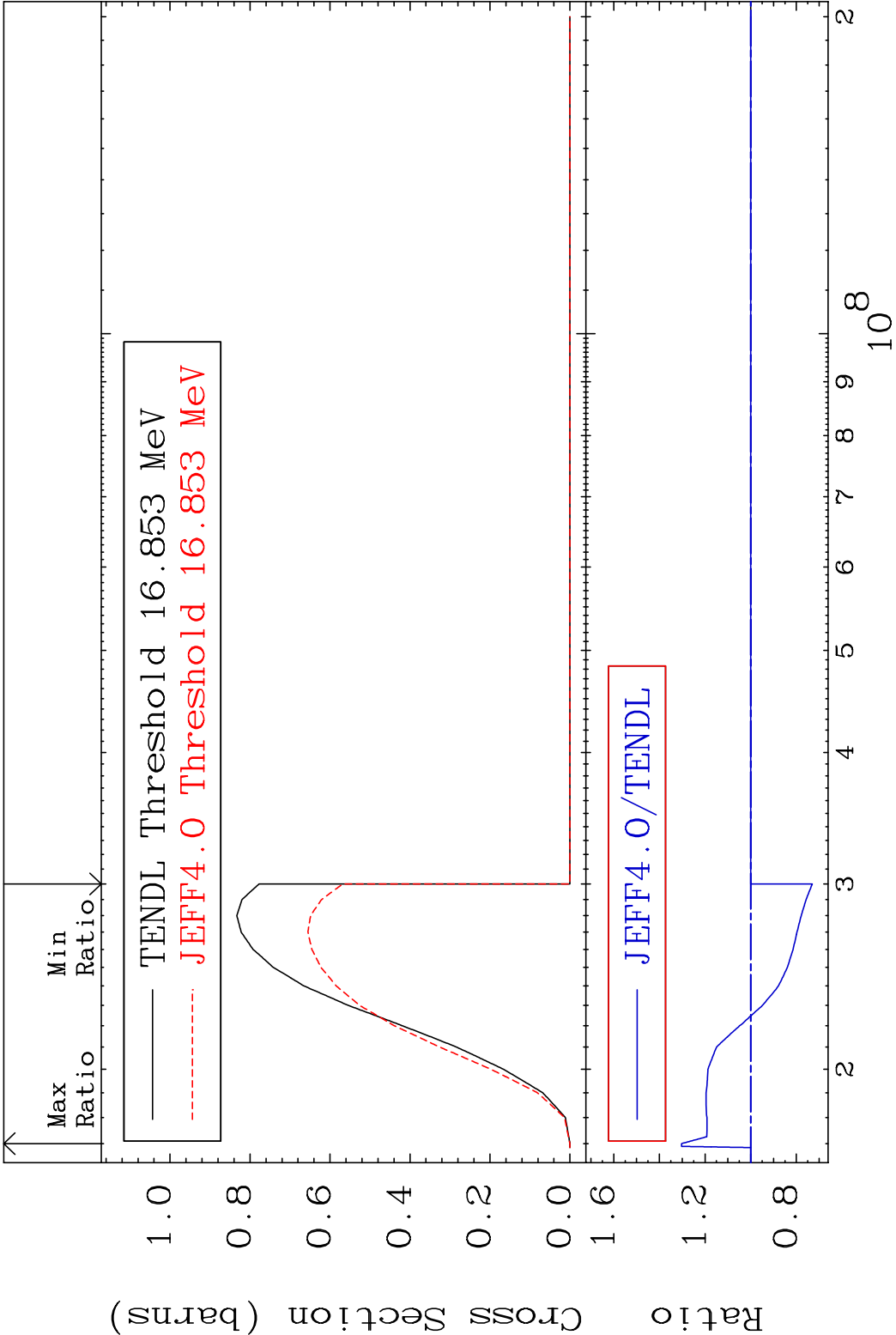


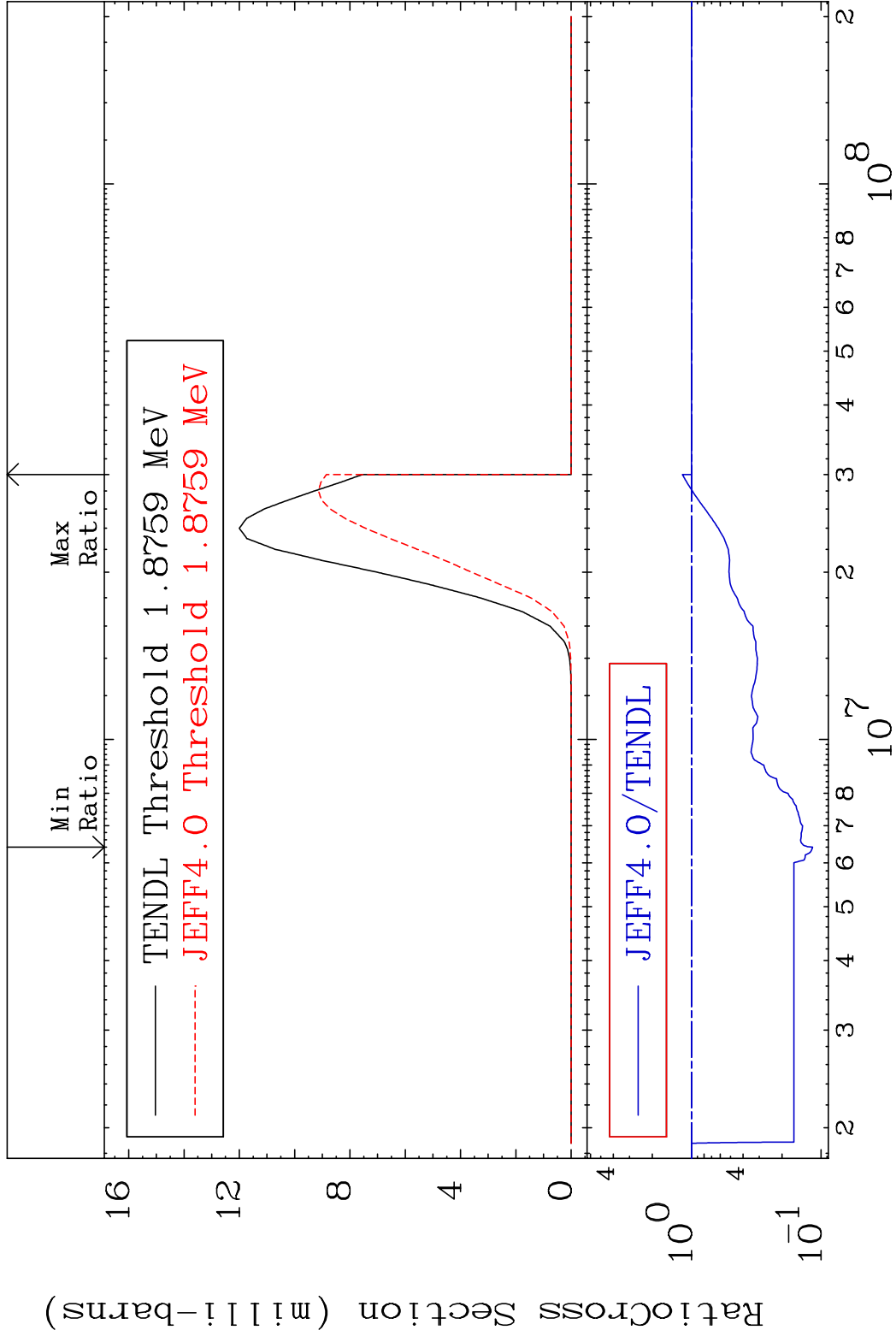
78 Incident Energy (eV) 56-Ba-135

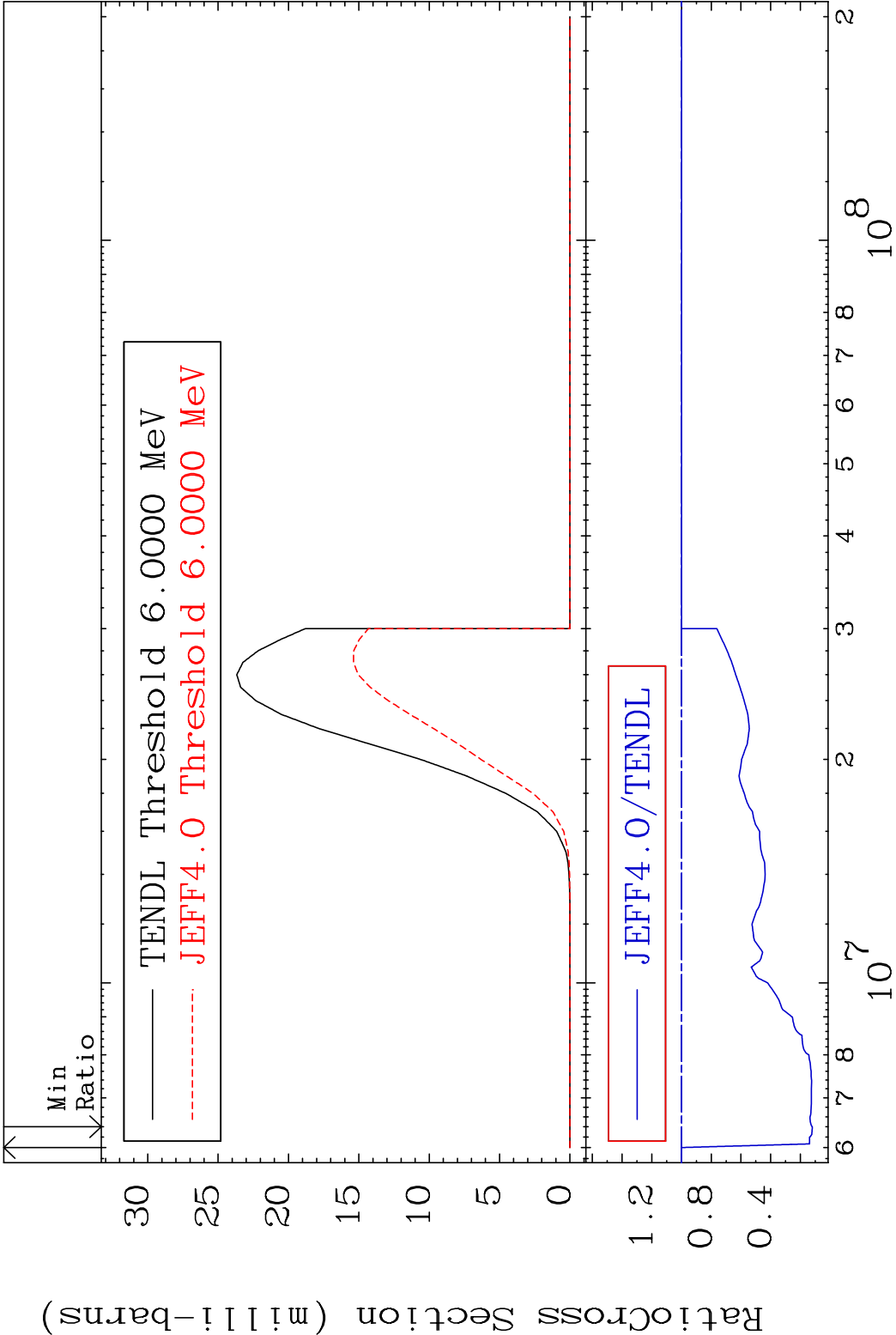


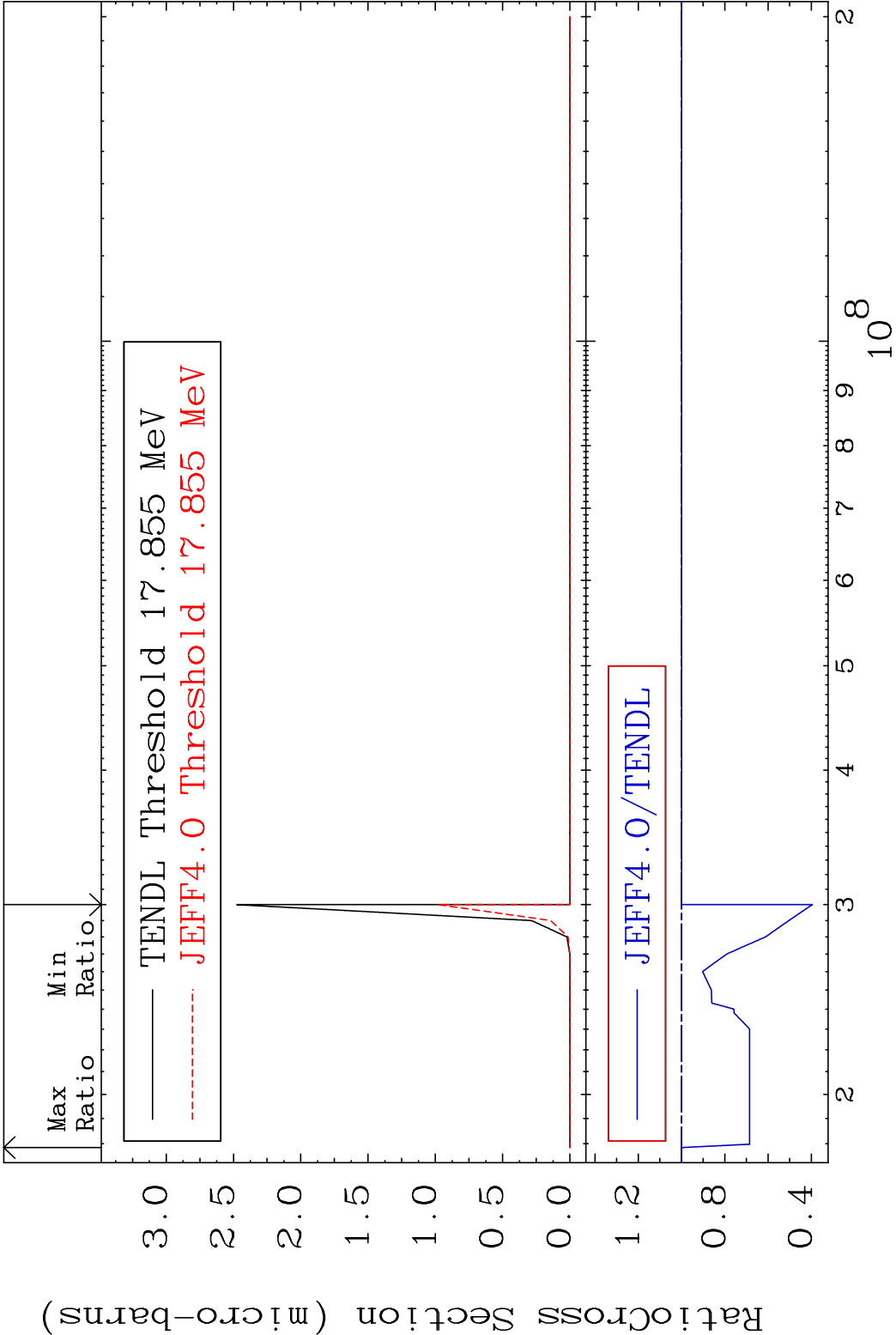


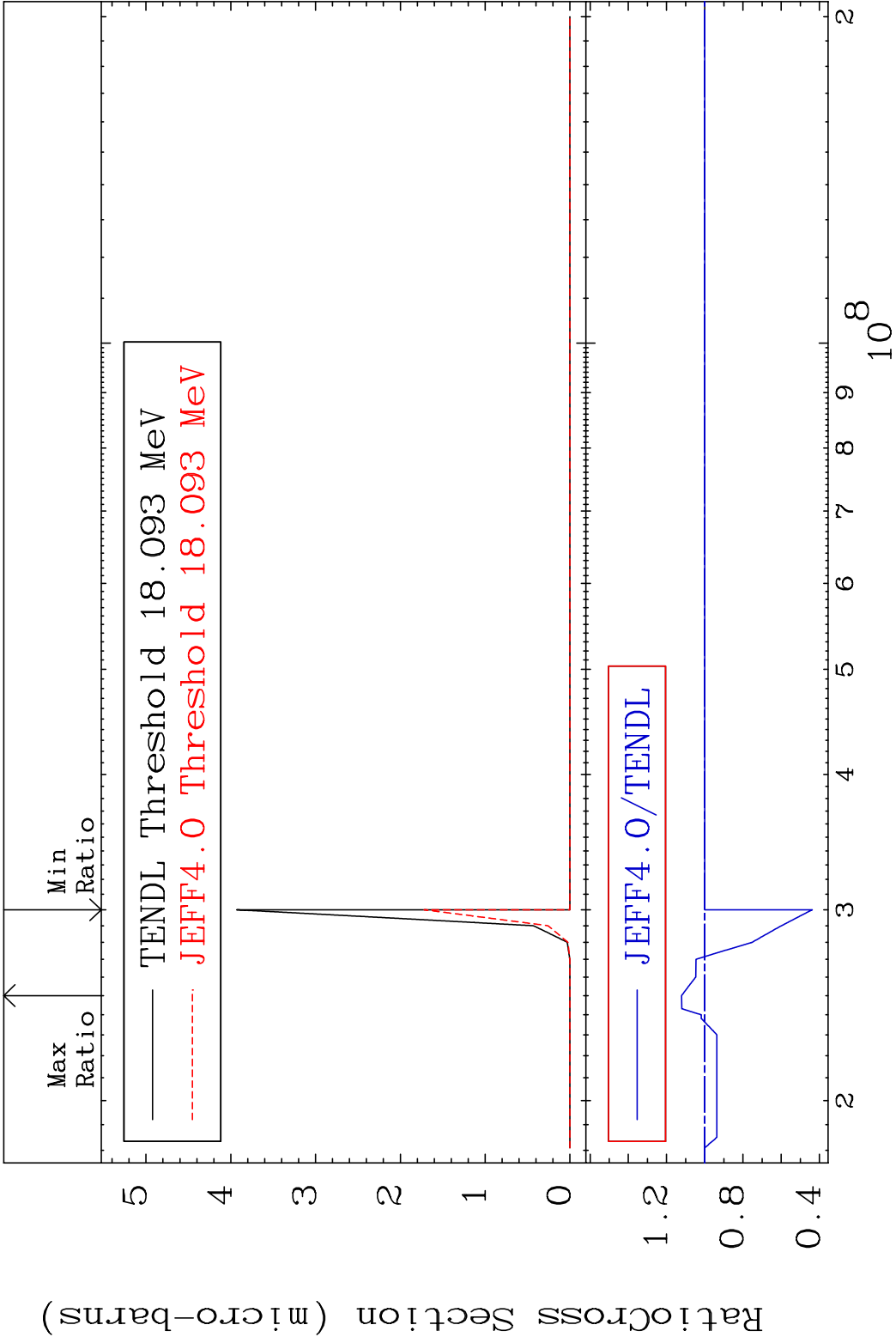


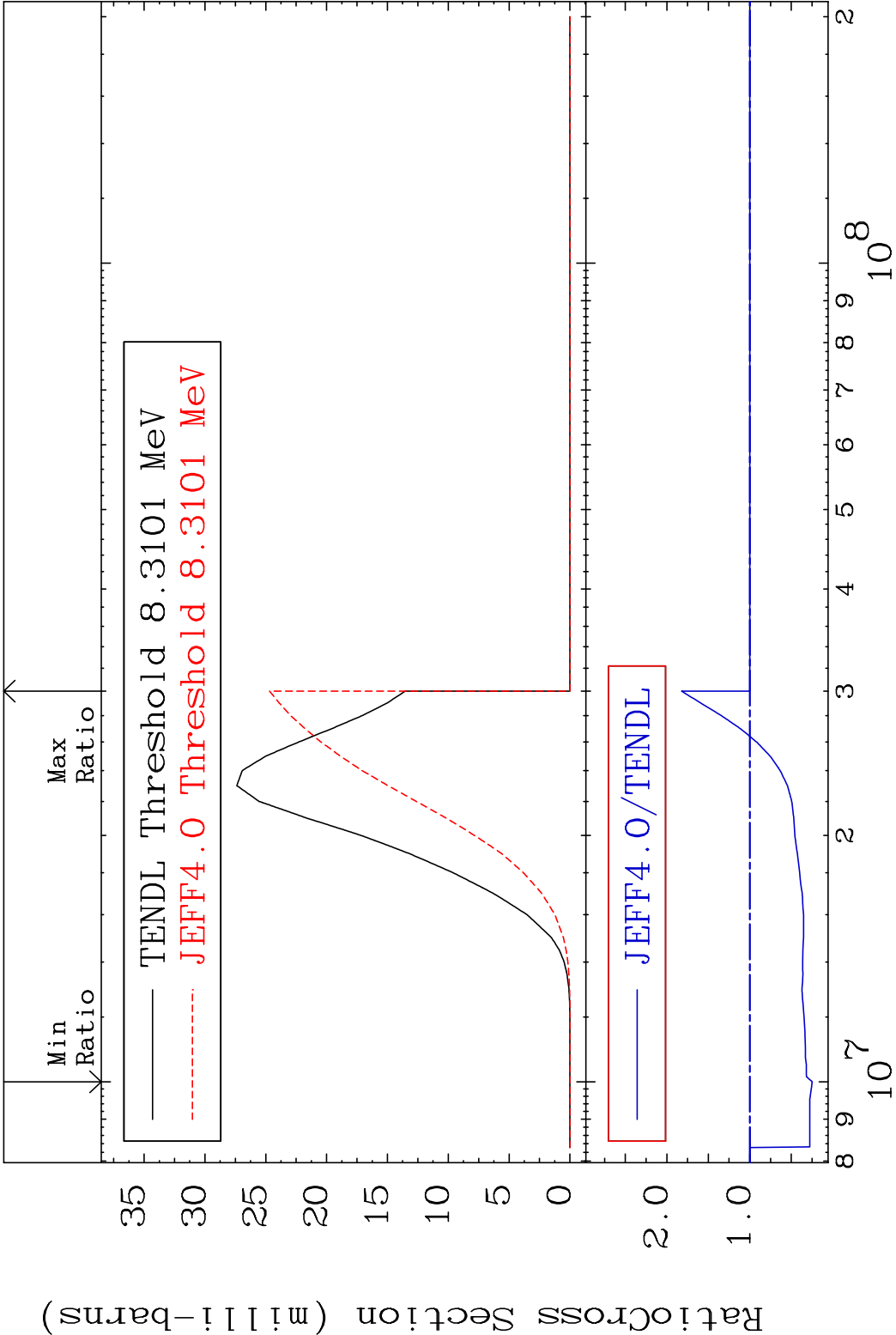




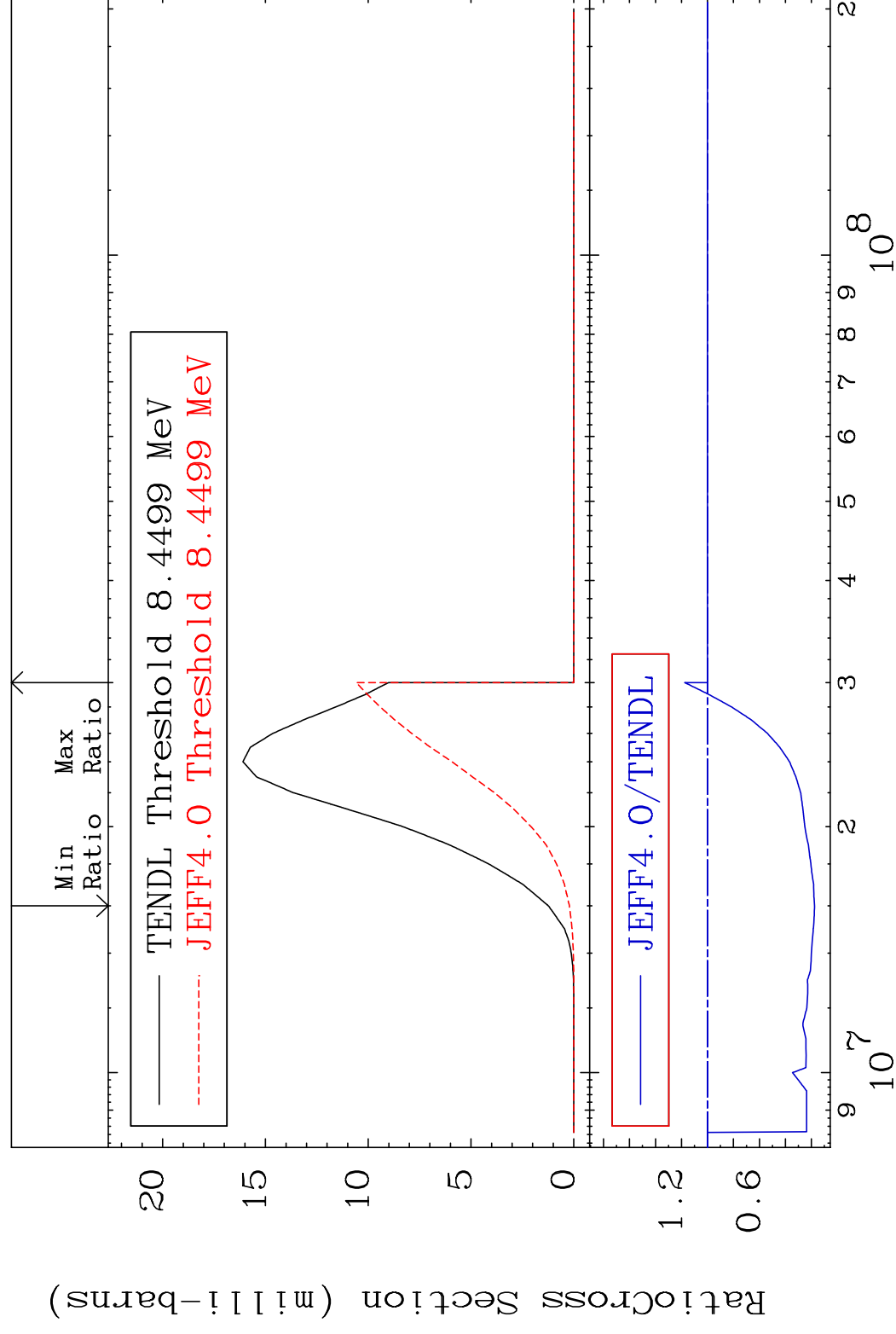


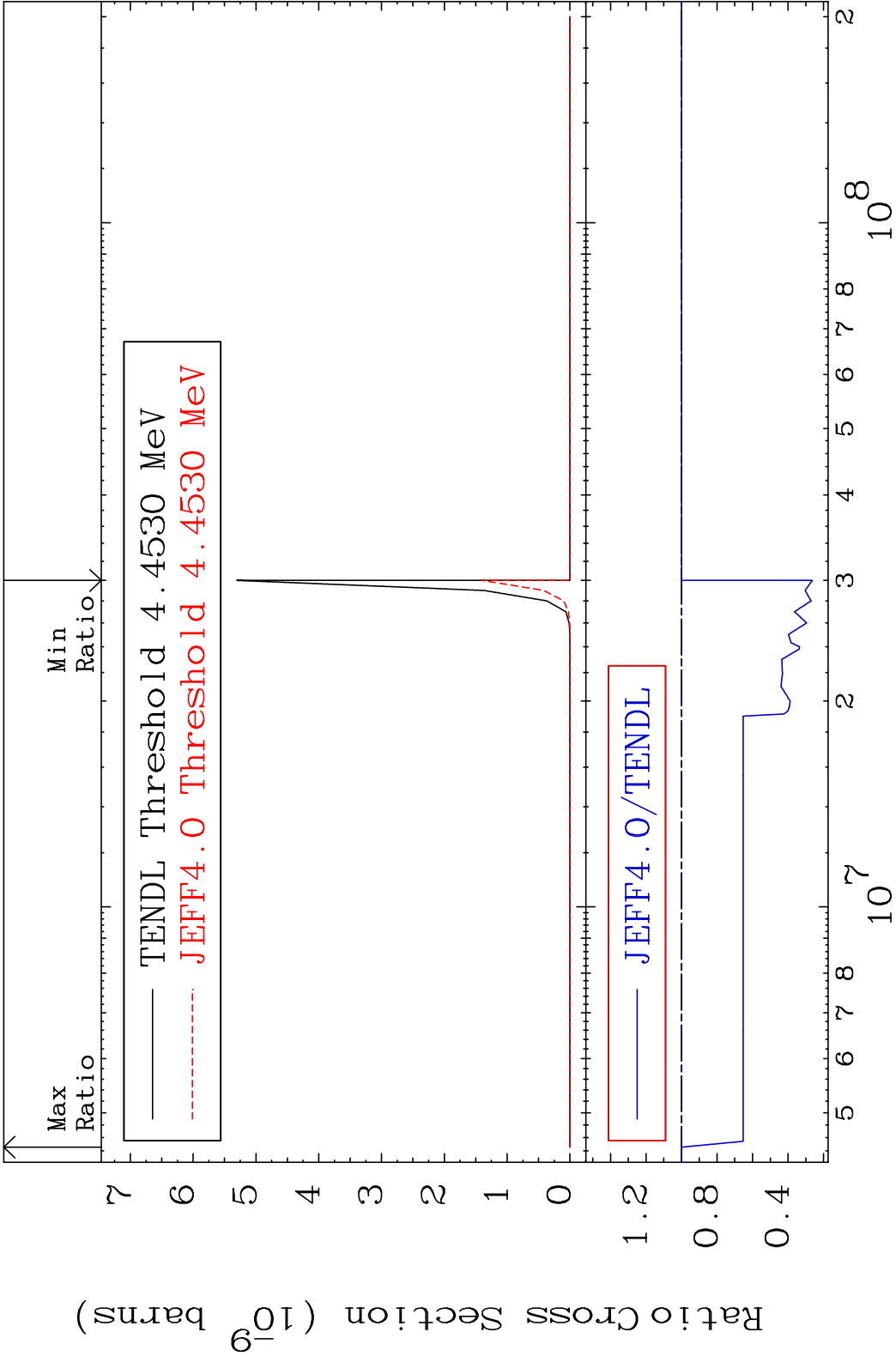


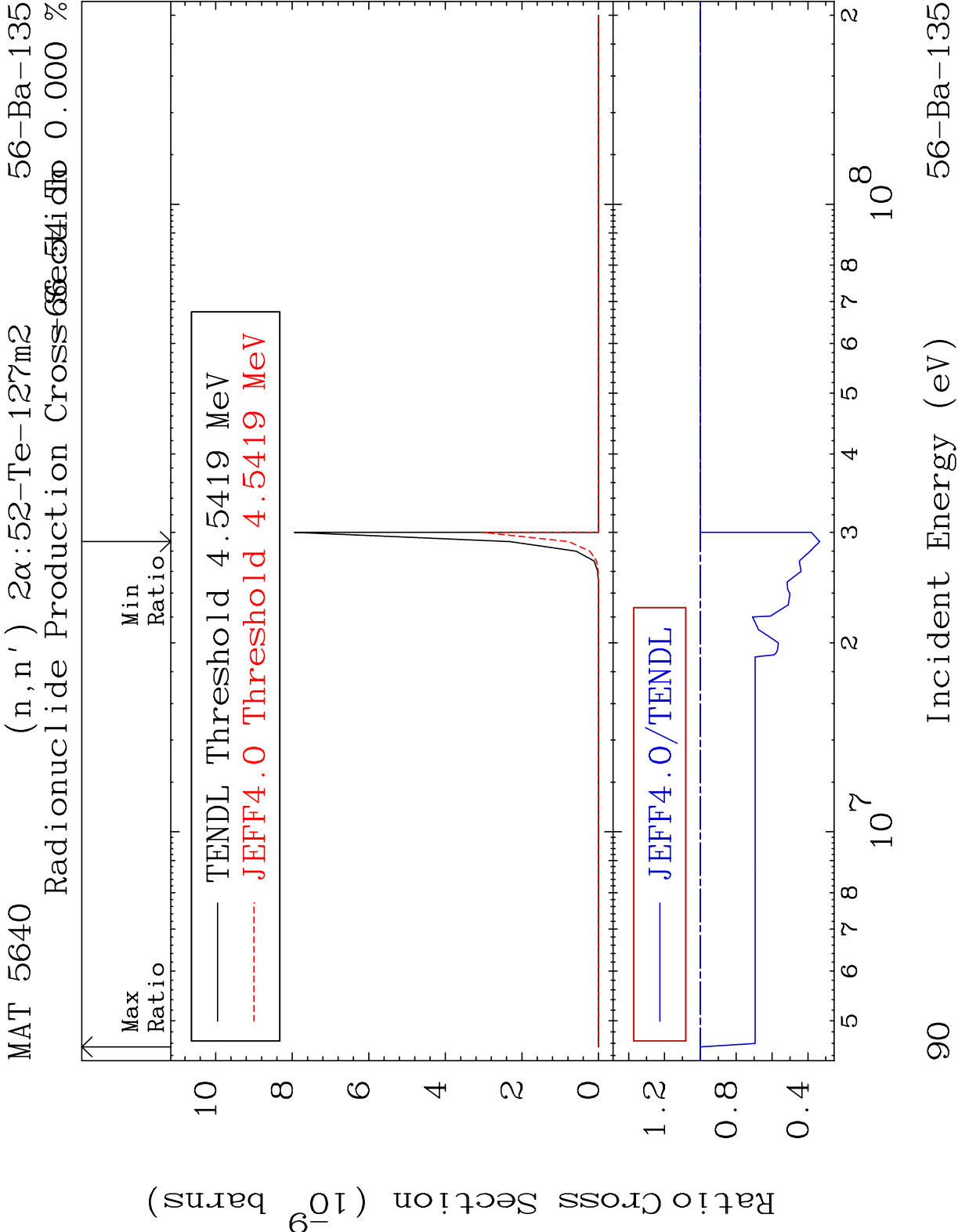




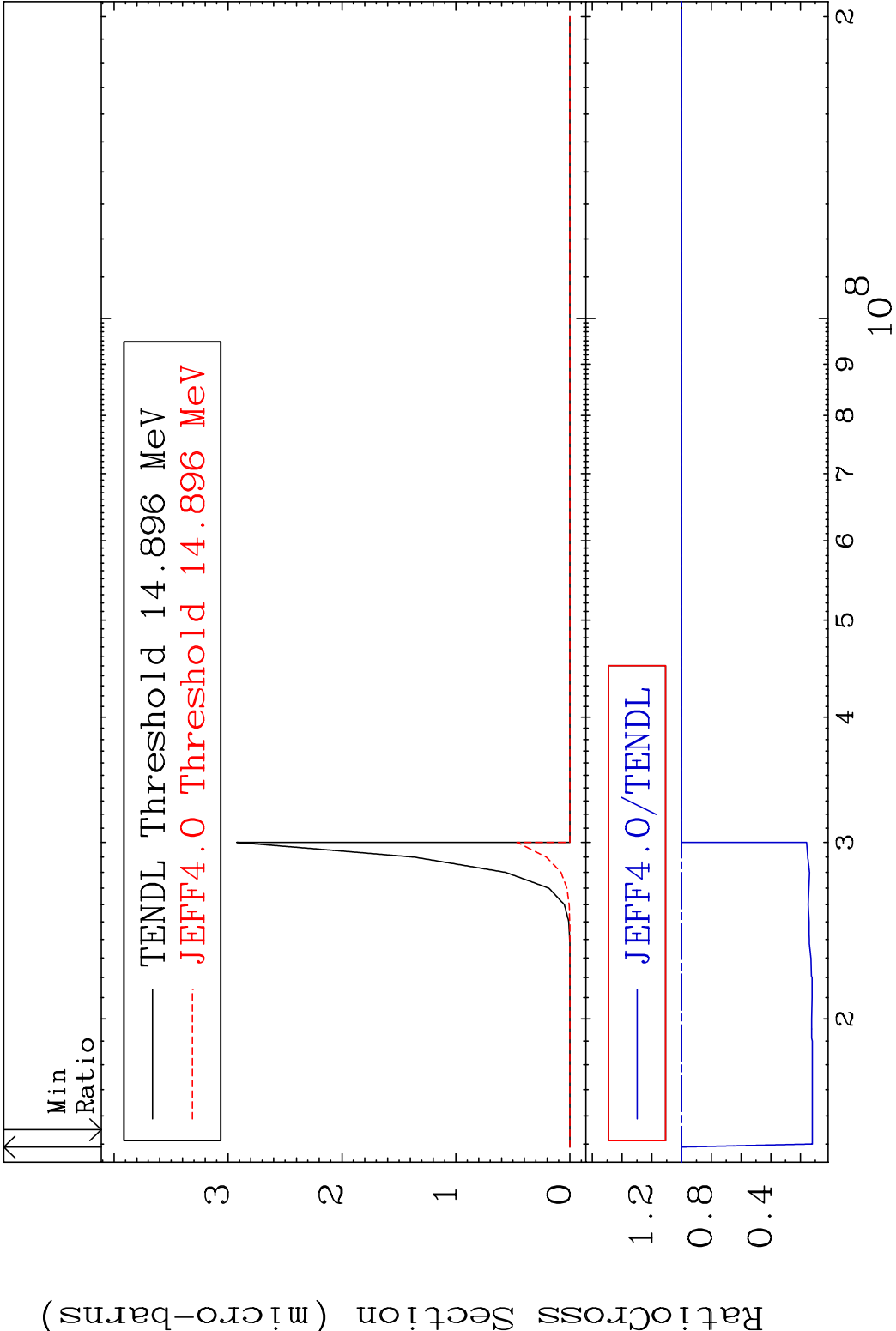
MAT 5640 (n, n') p:55-Cs-134m3 56-Ba-135
Radionuclide Production Cross Section 17.55 %

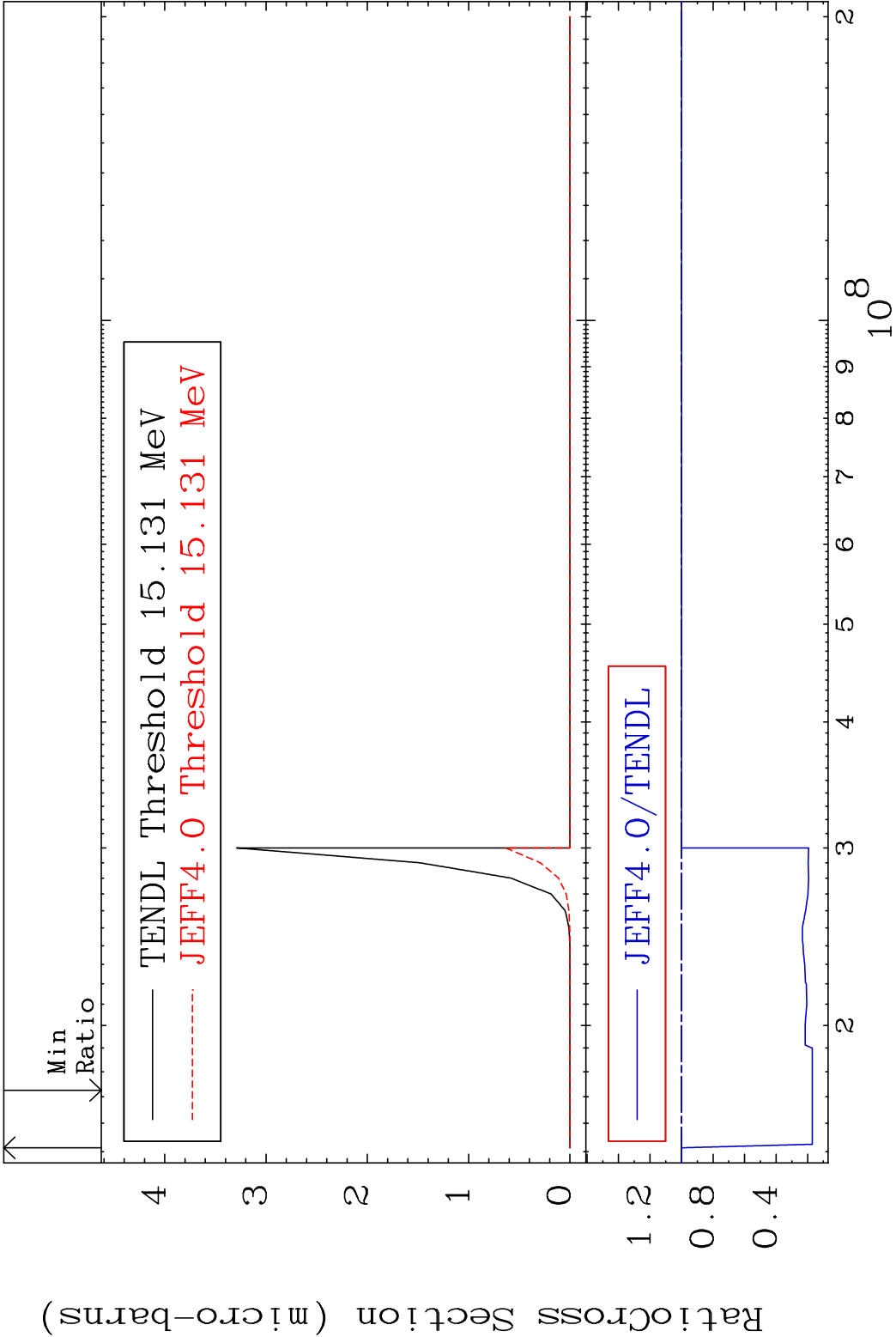


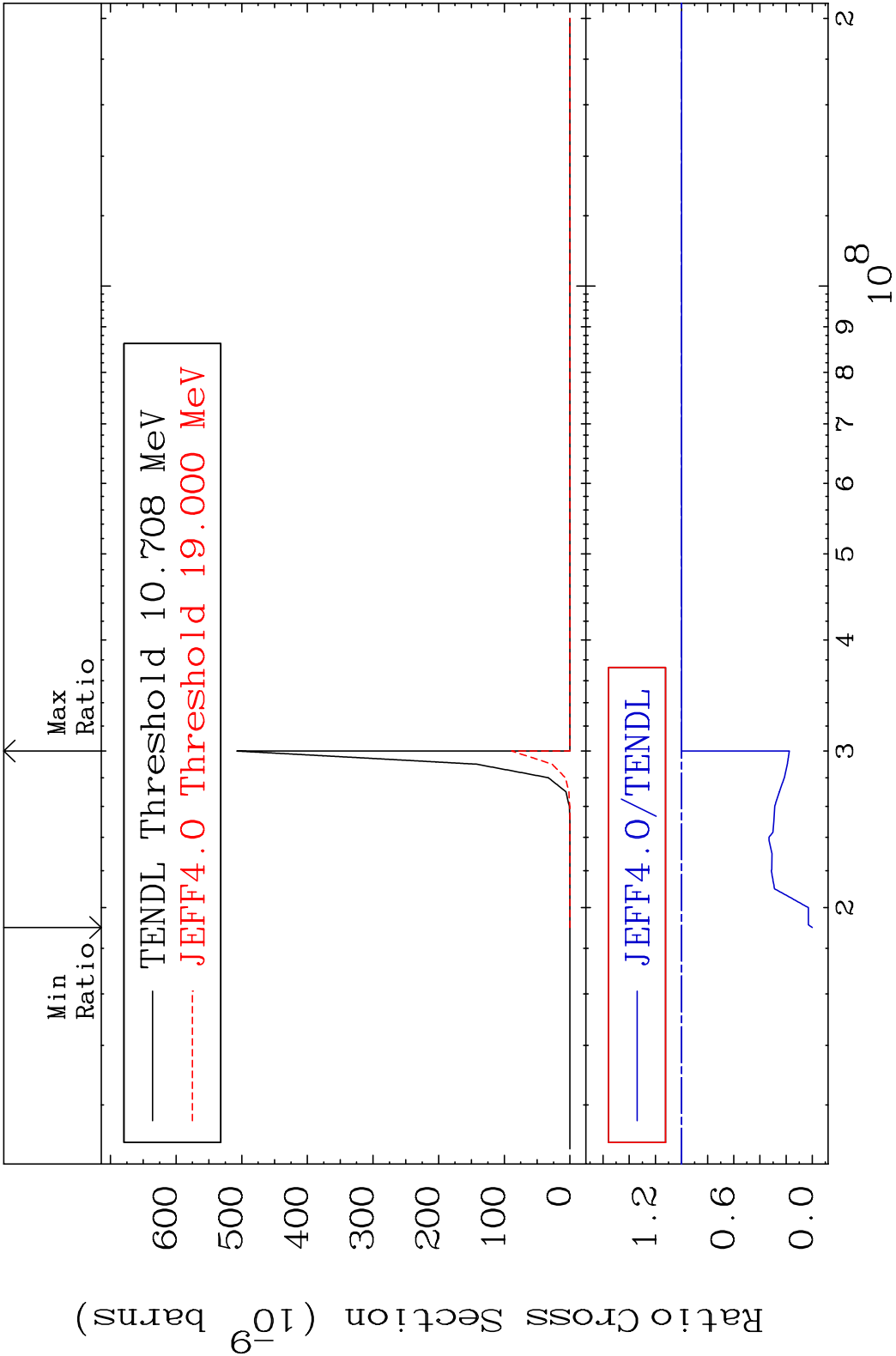


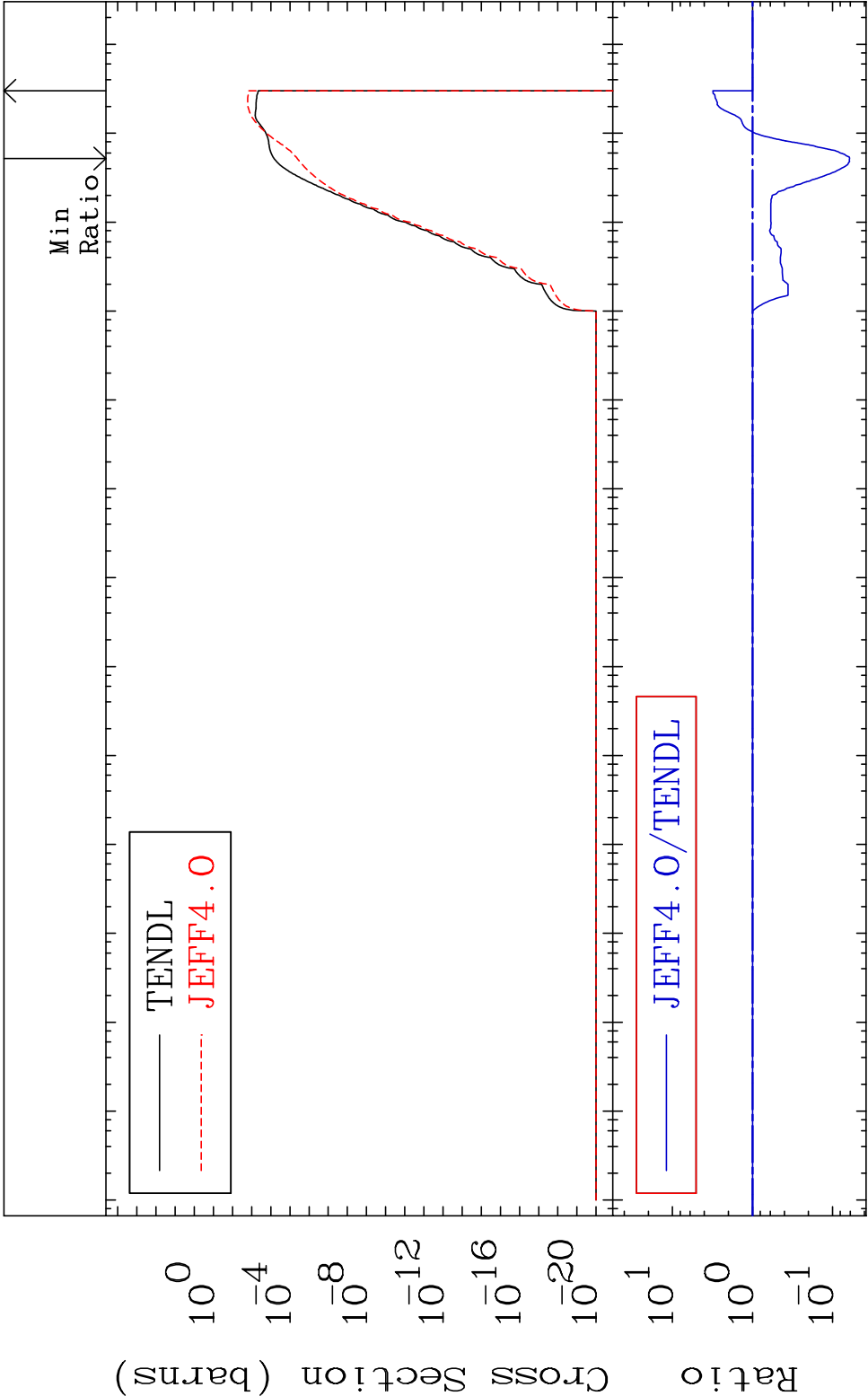


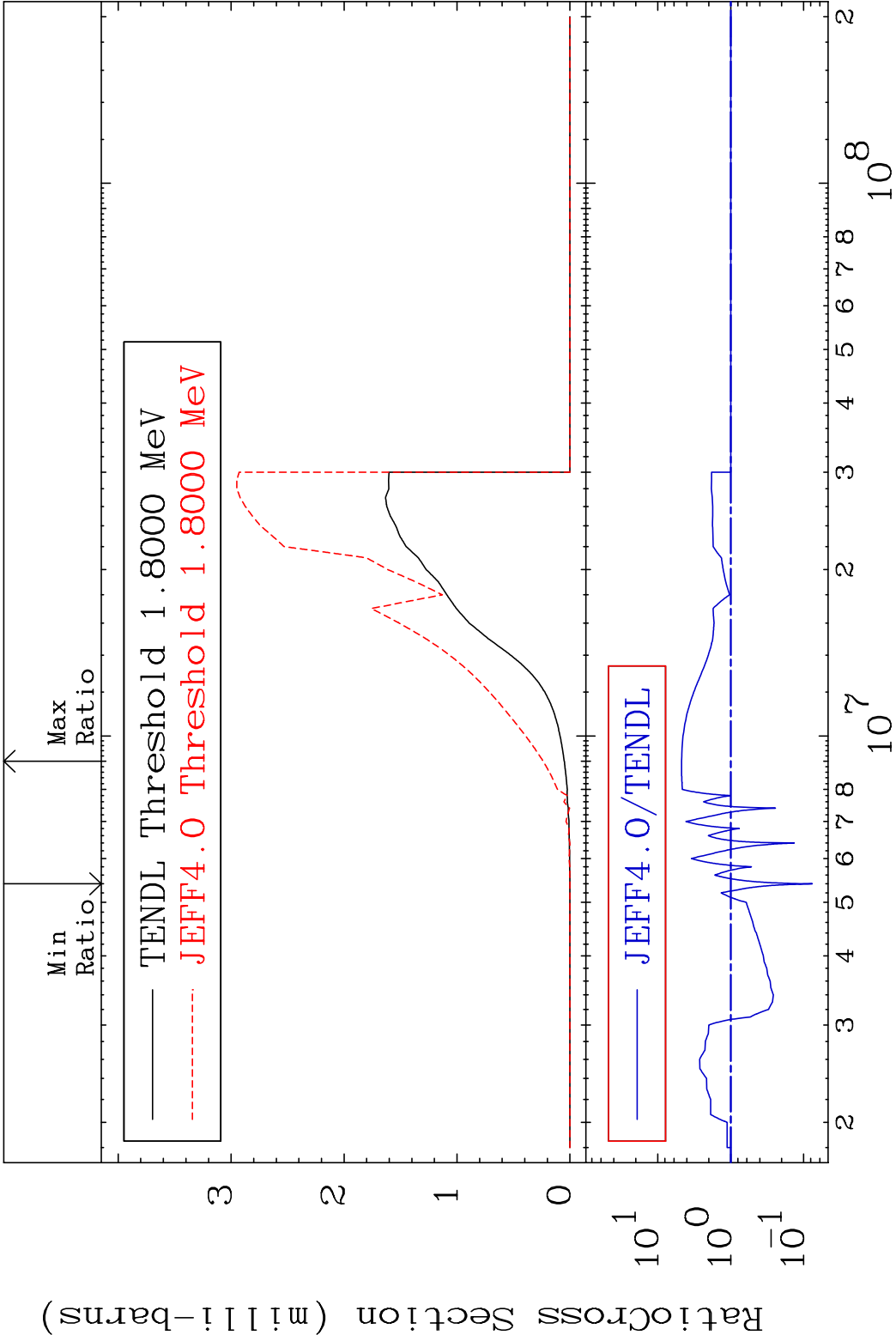
Ratio Cross Section (10^{-9} barns)

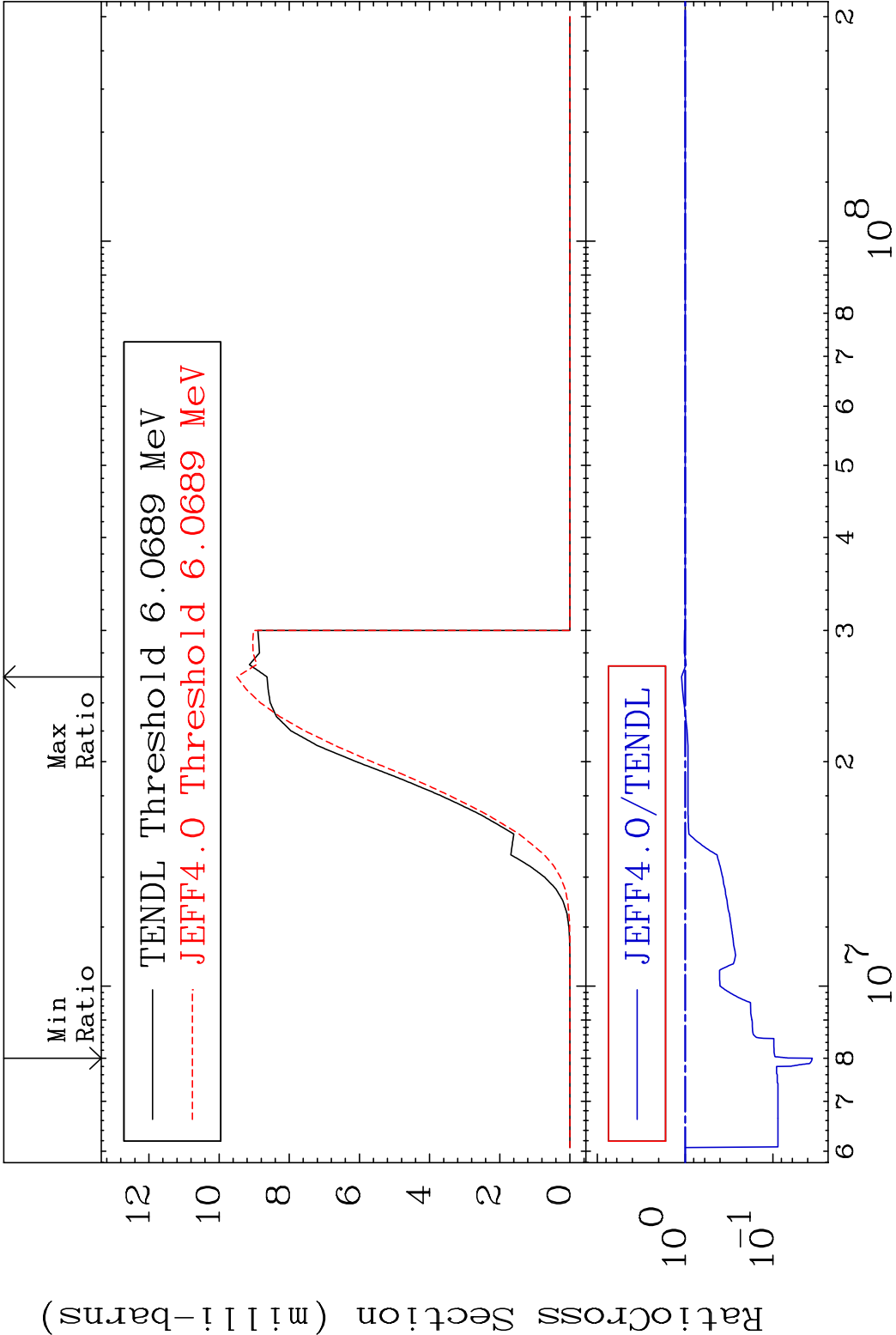


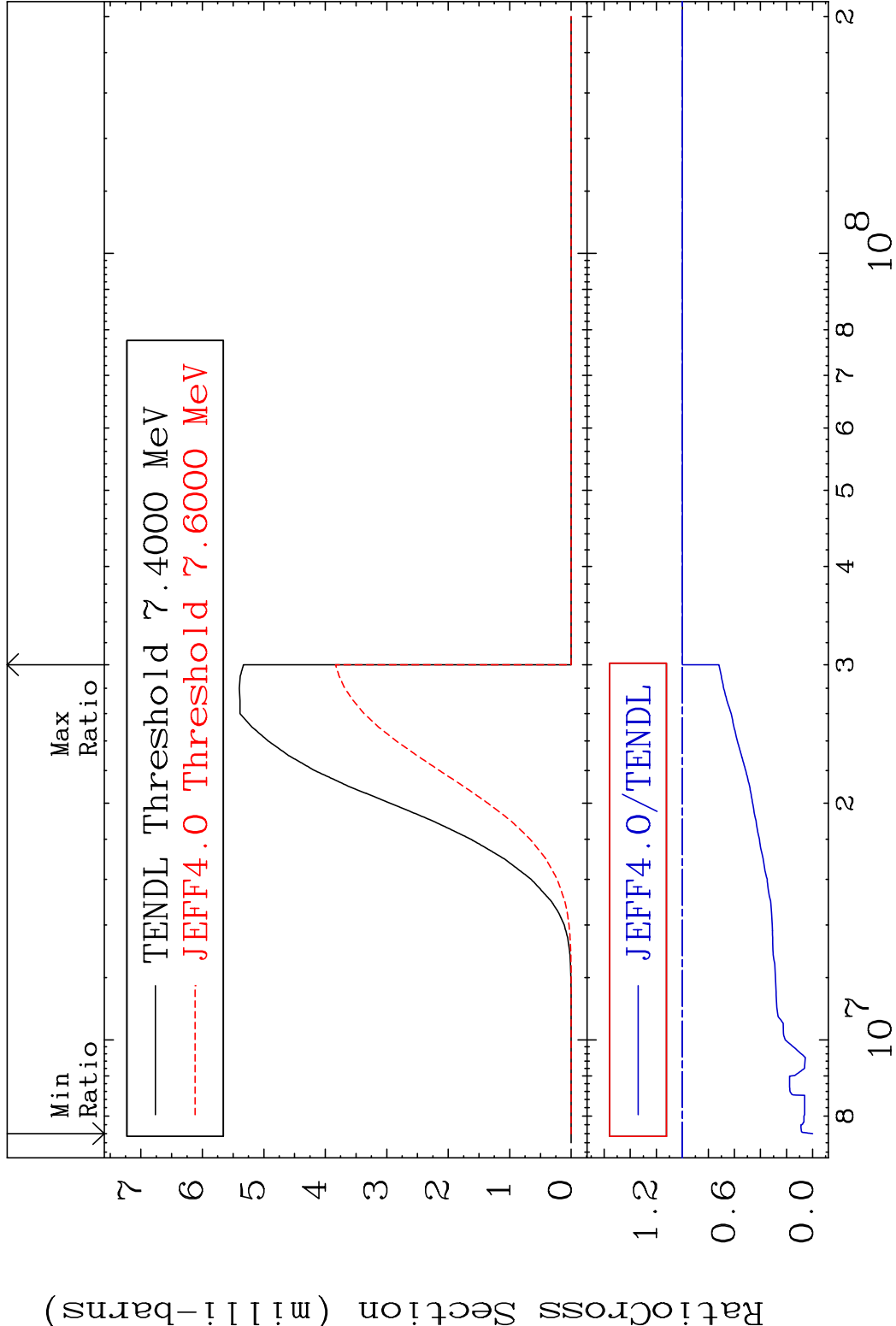


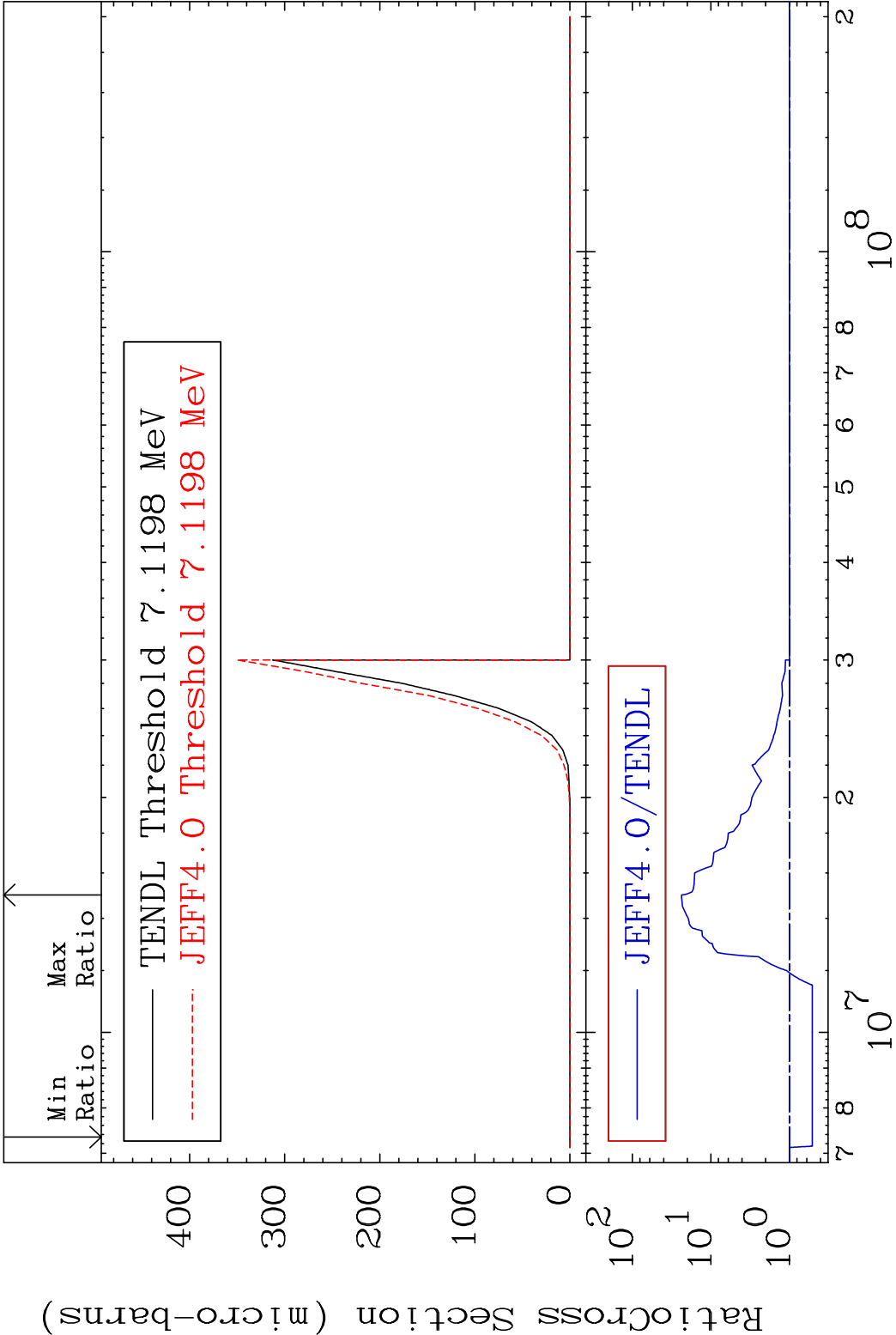




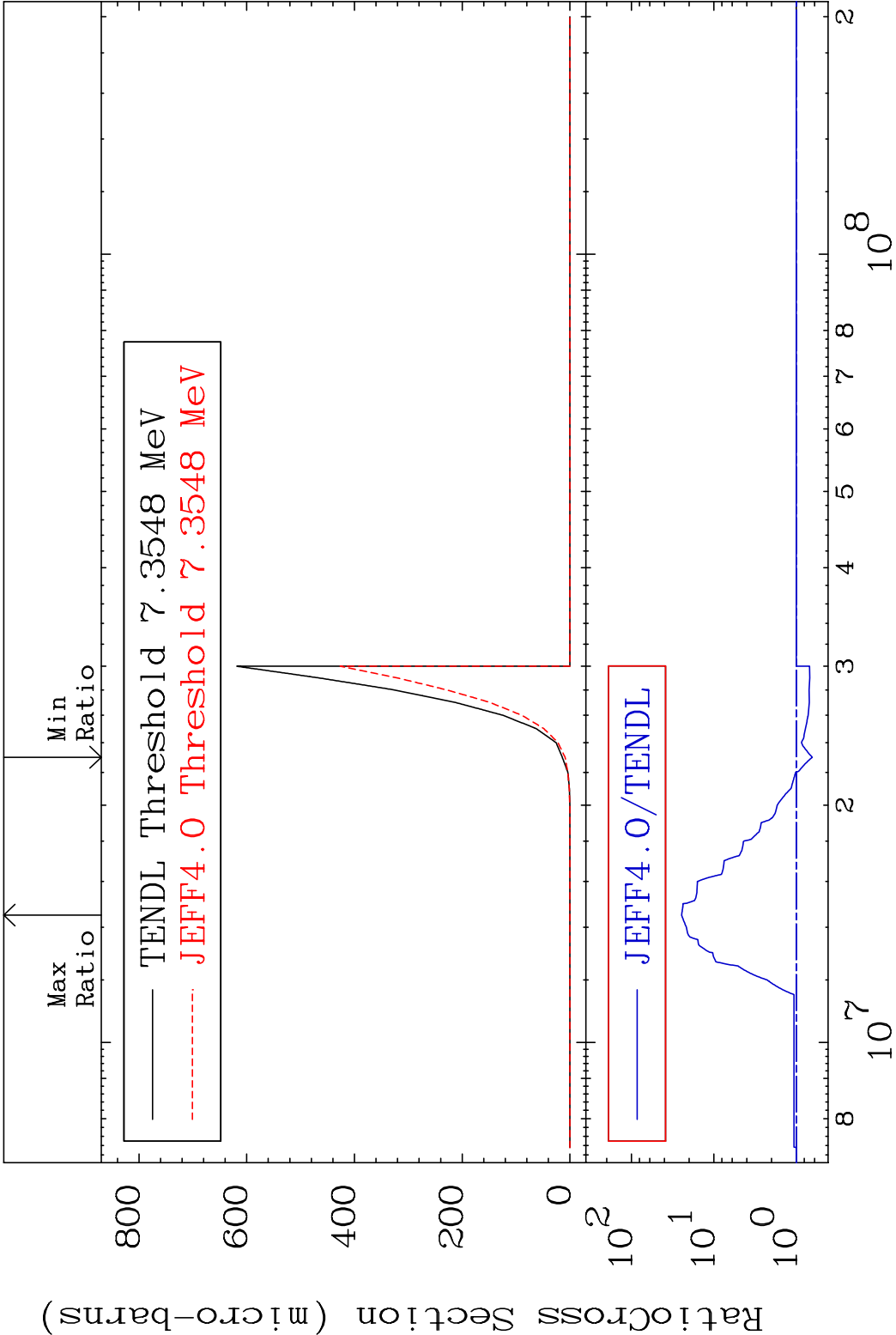








MAT 5640 (n,He-3):54-Xe-133m1 56-Ba-135
Radionuclide Production Cross Section to 2370. %



100 Incident Energy (eV) 56-Ba-135

