

Program Complot
(Version 2021-1)

by

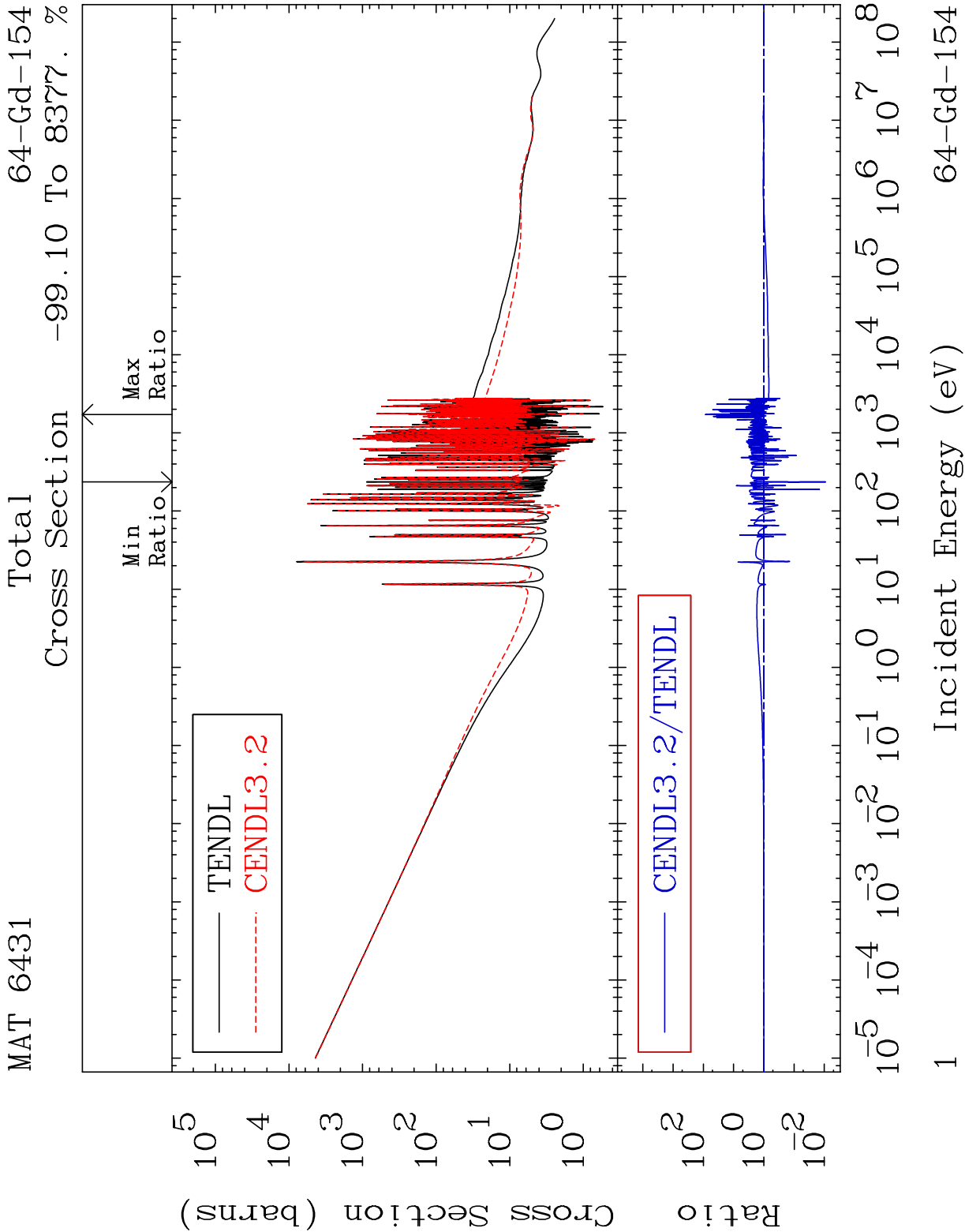
Dermott E. Cullen
(Present Contact Information)

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Press Mouse Button to Start

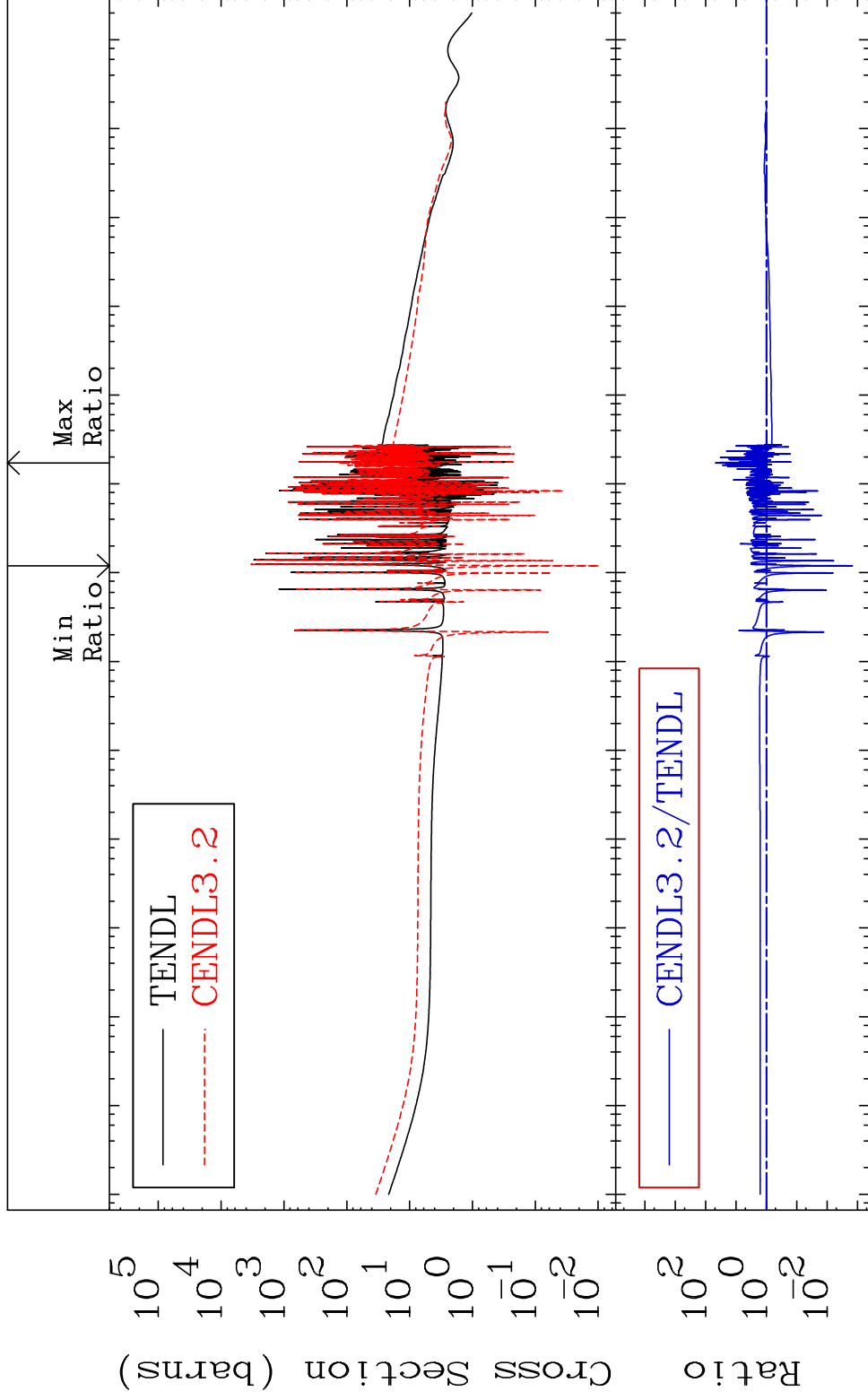


MAT 6431

Elastic

64-Gd-154

Cross Section -99.85 To 4611. %



2

Incident Energy (eV)

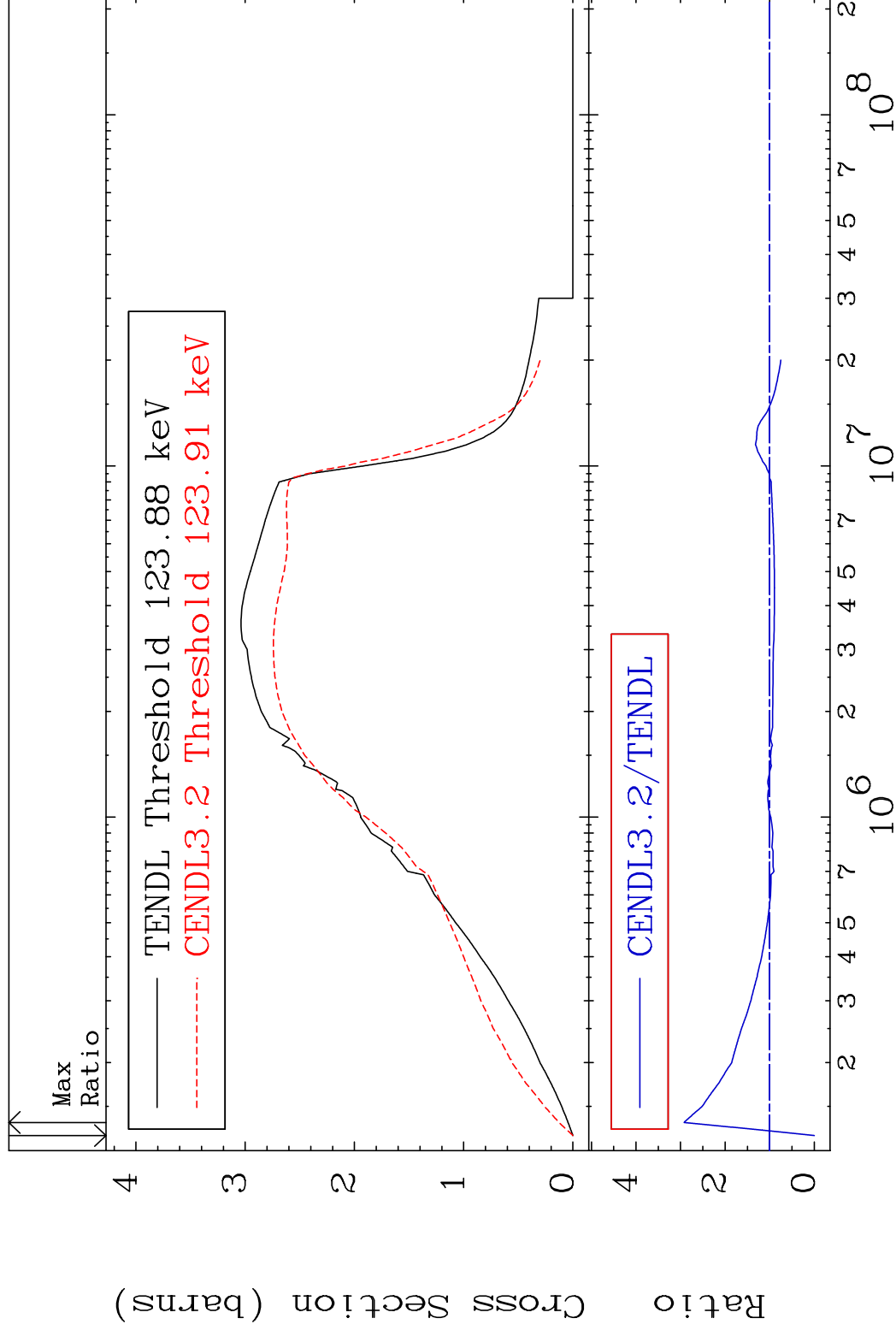
64-Gd-154

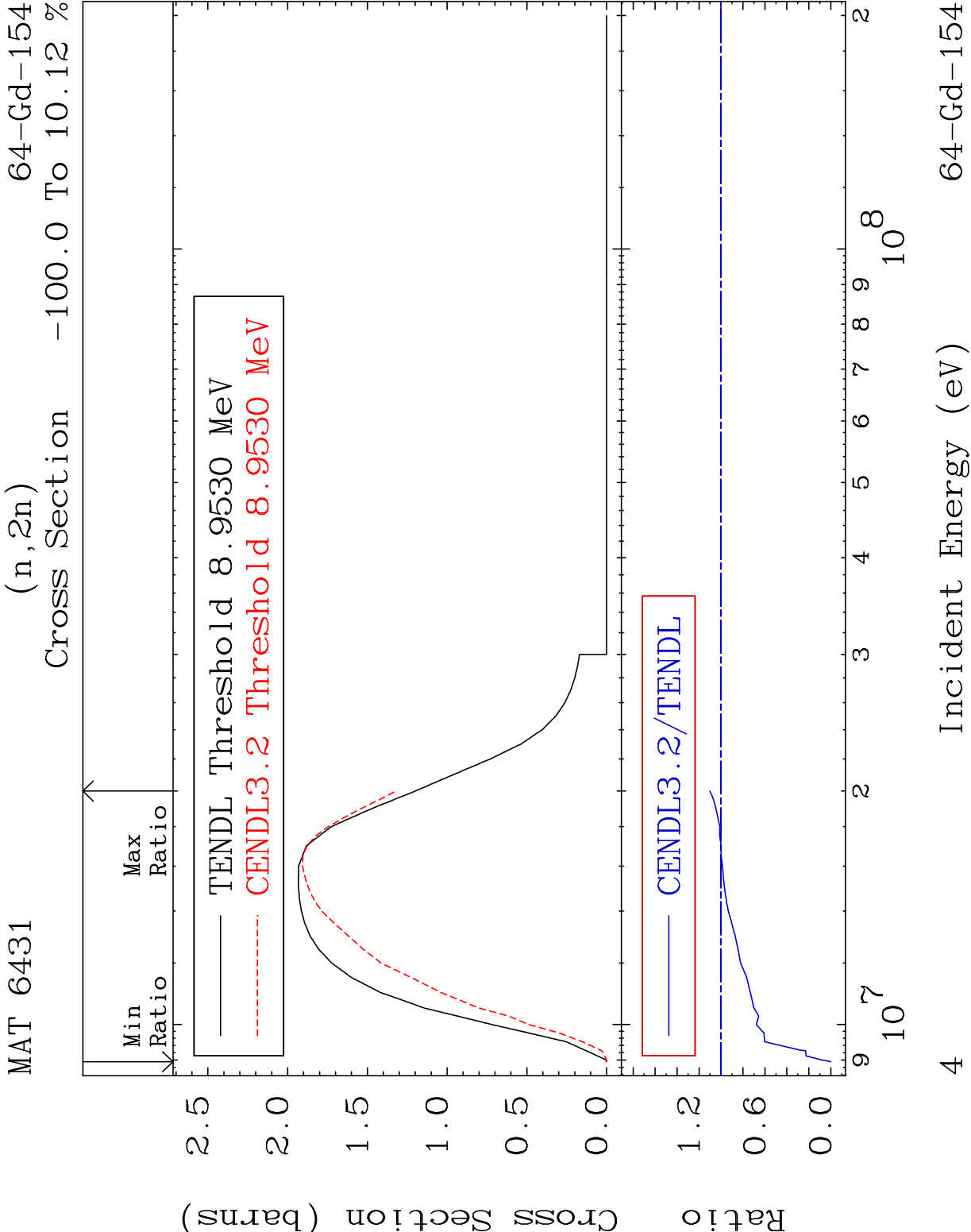
MAT 6431

Inelastic

64-Gd-154

Cross Section	-100.0 To 192.1 %
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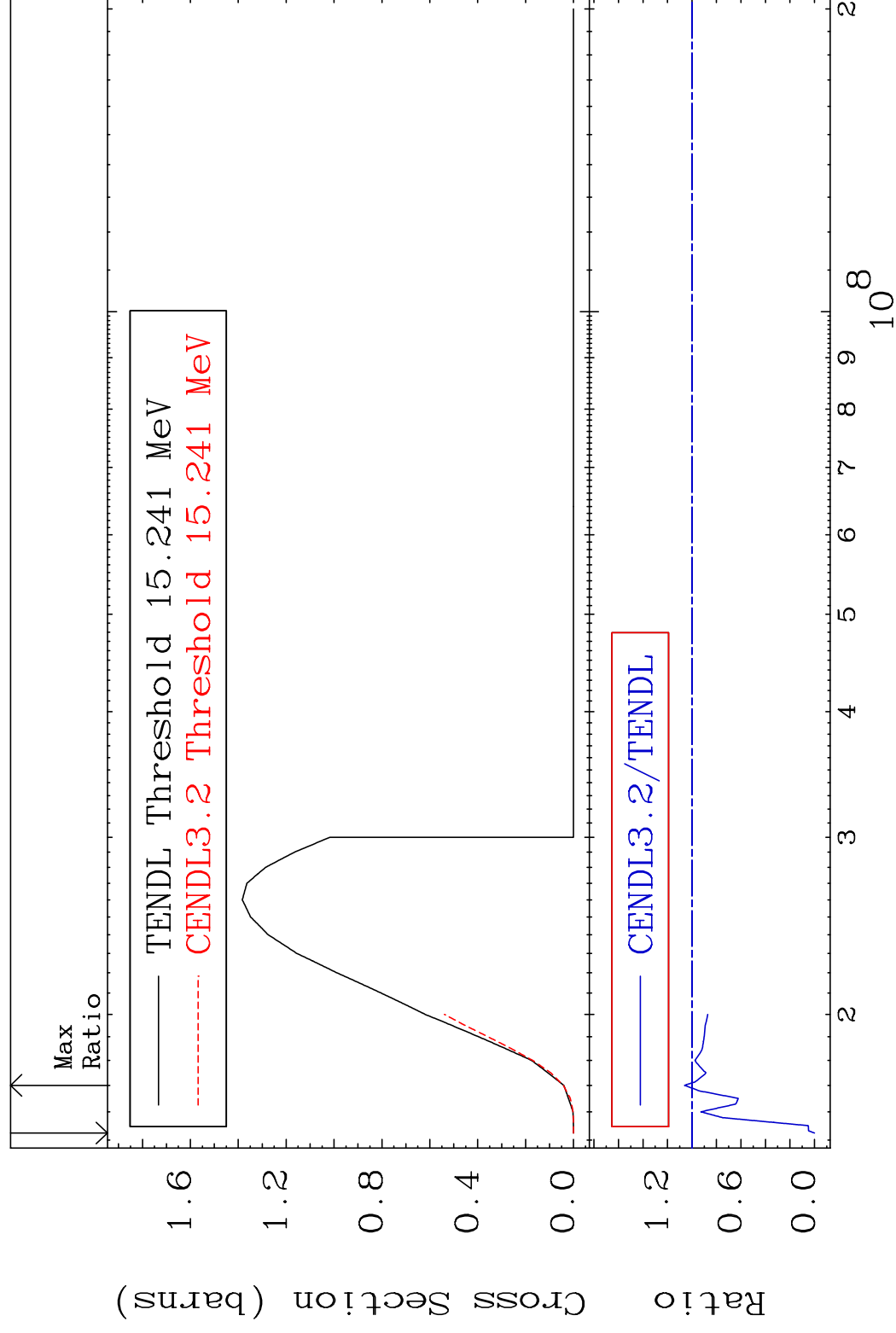


MAT 6431

$$(n, 3n)$$

64-Gd-154

Cross Section -100.0 To 6.125 %



5

Incident Energy (eV)

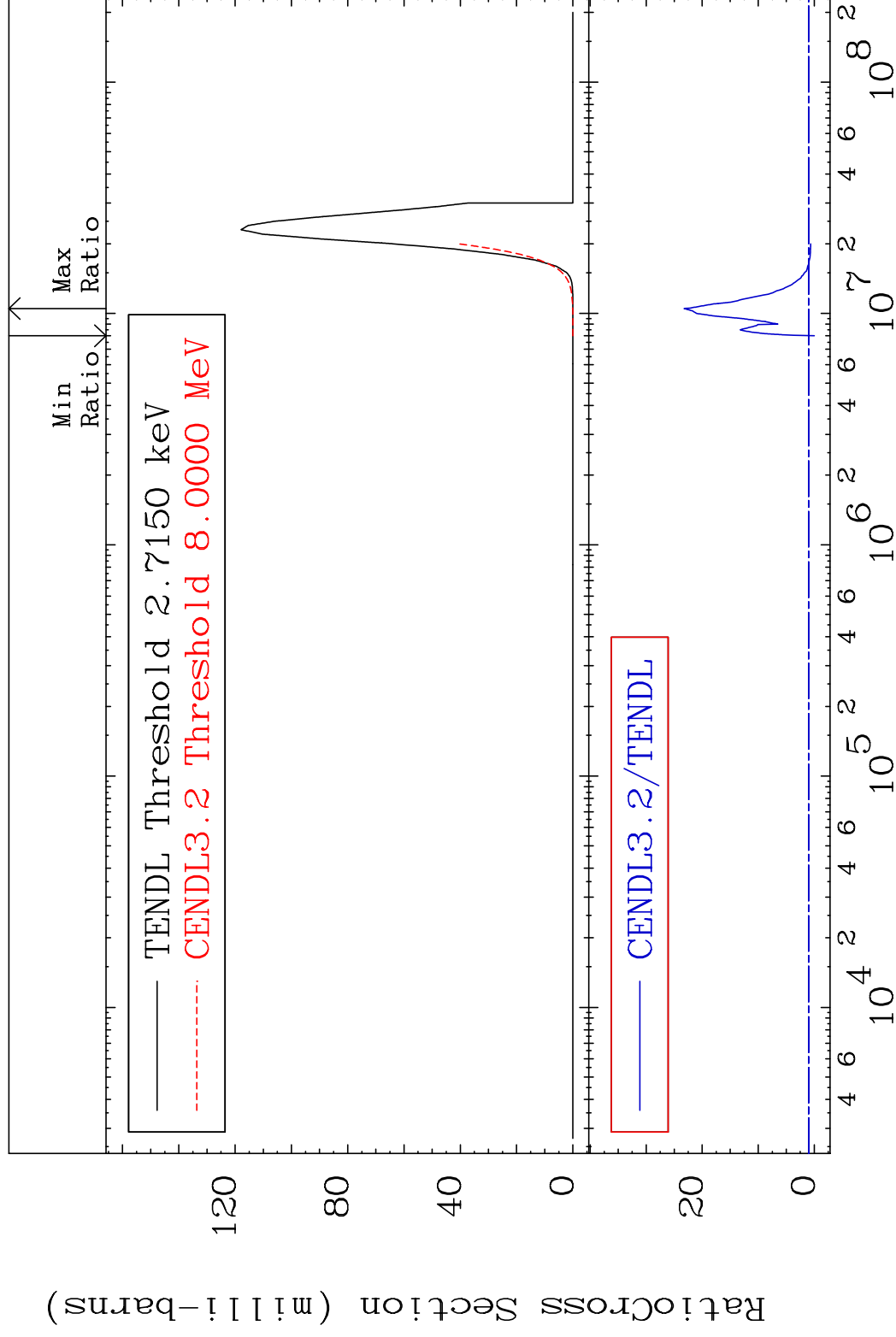
64-Gd-154

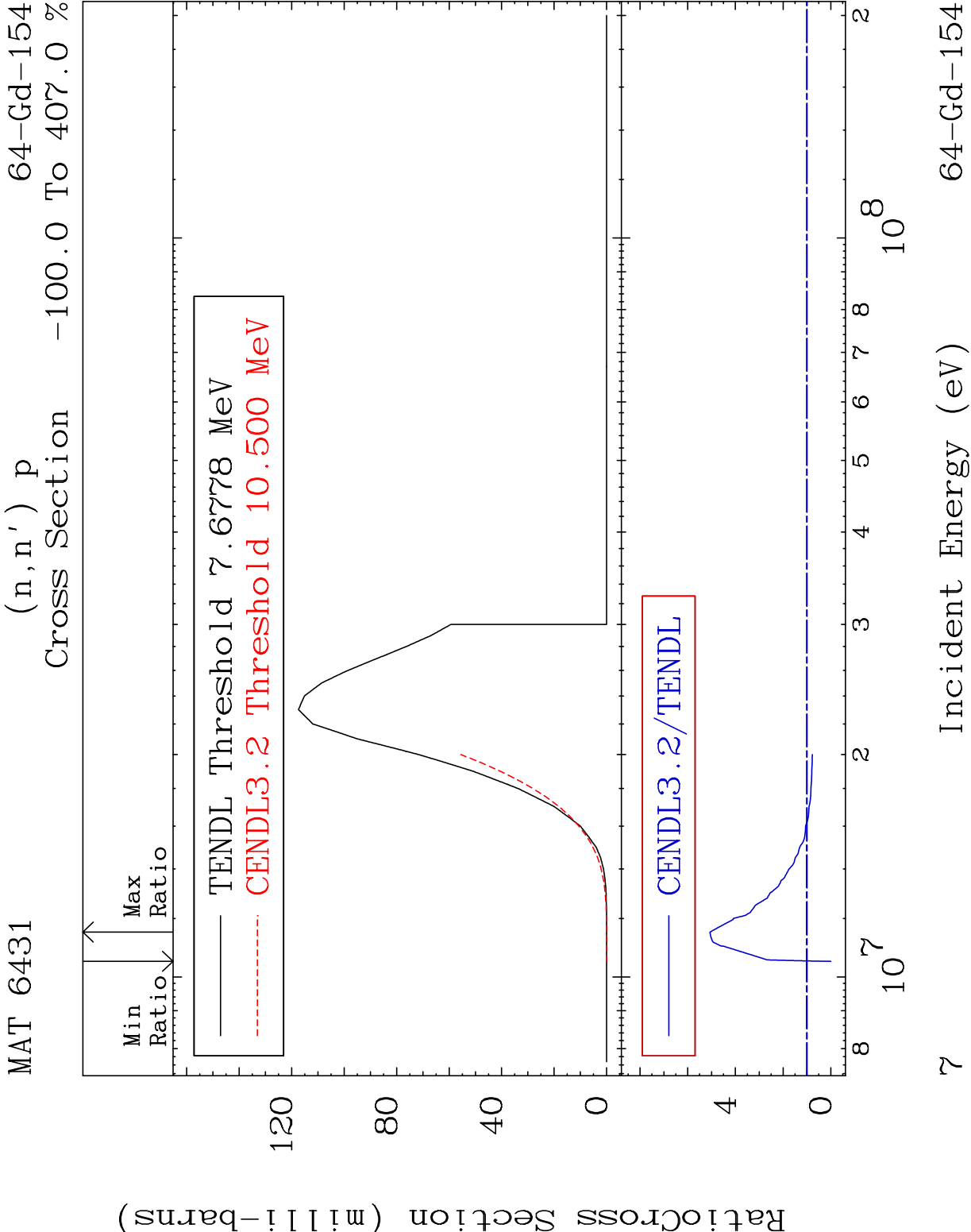
MAT 6431

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

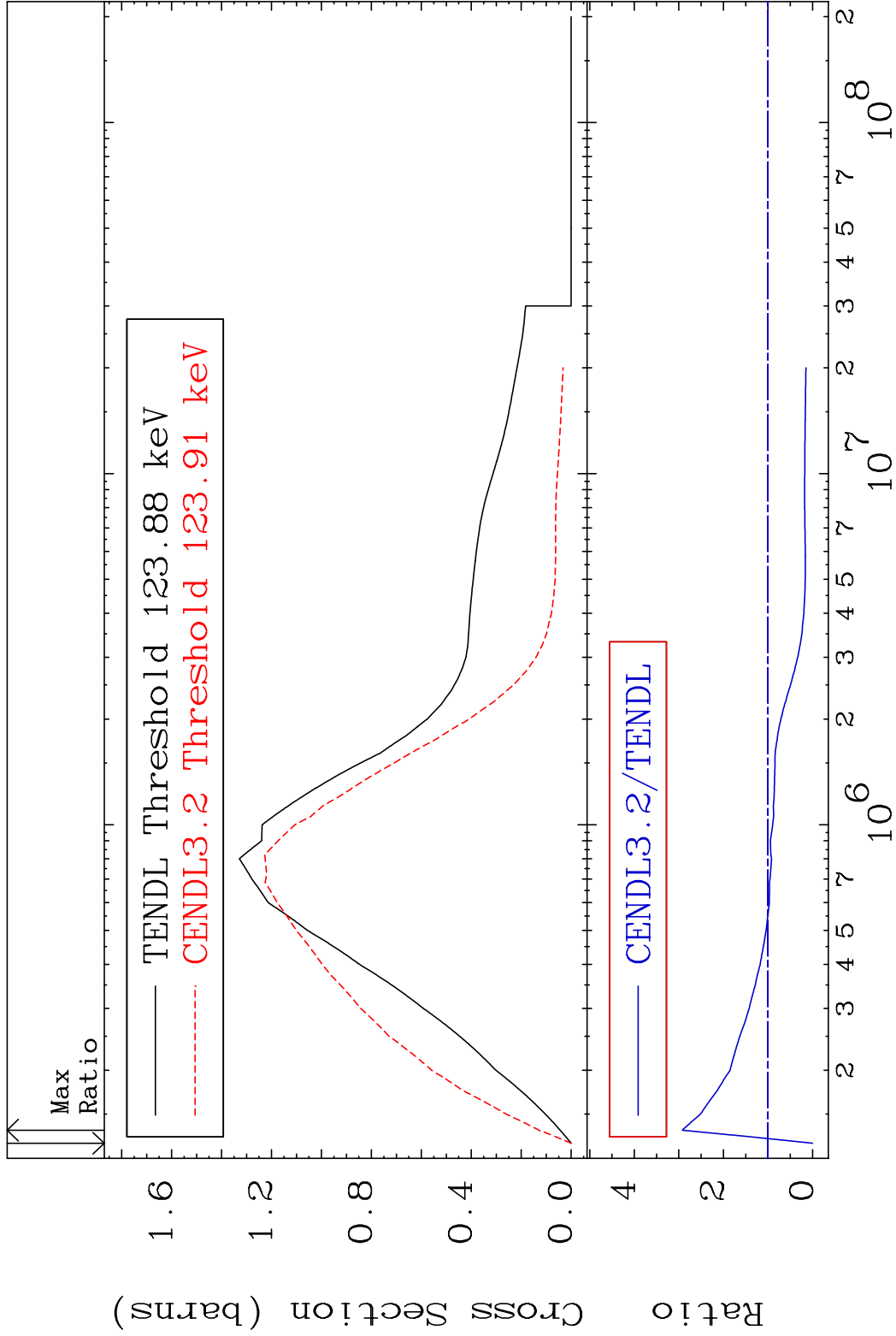
64-Gd-154

Cross Section -100.0 To 2224. %





MAT 6431 MT= 51 (n,n') Level 64-Gd-154
Cross Section -100.0 To 192.1 %



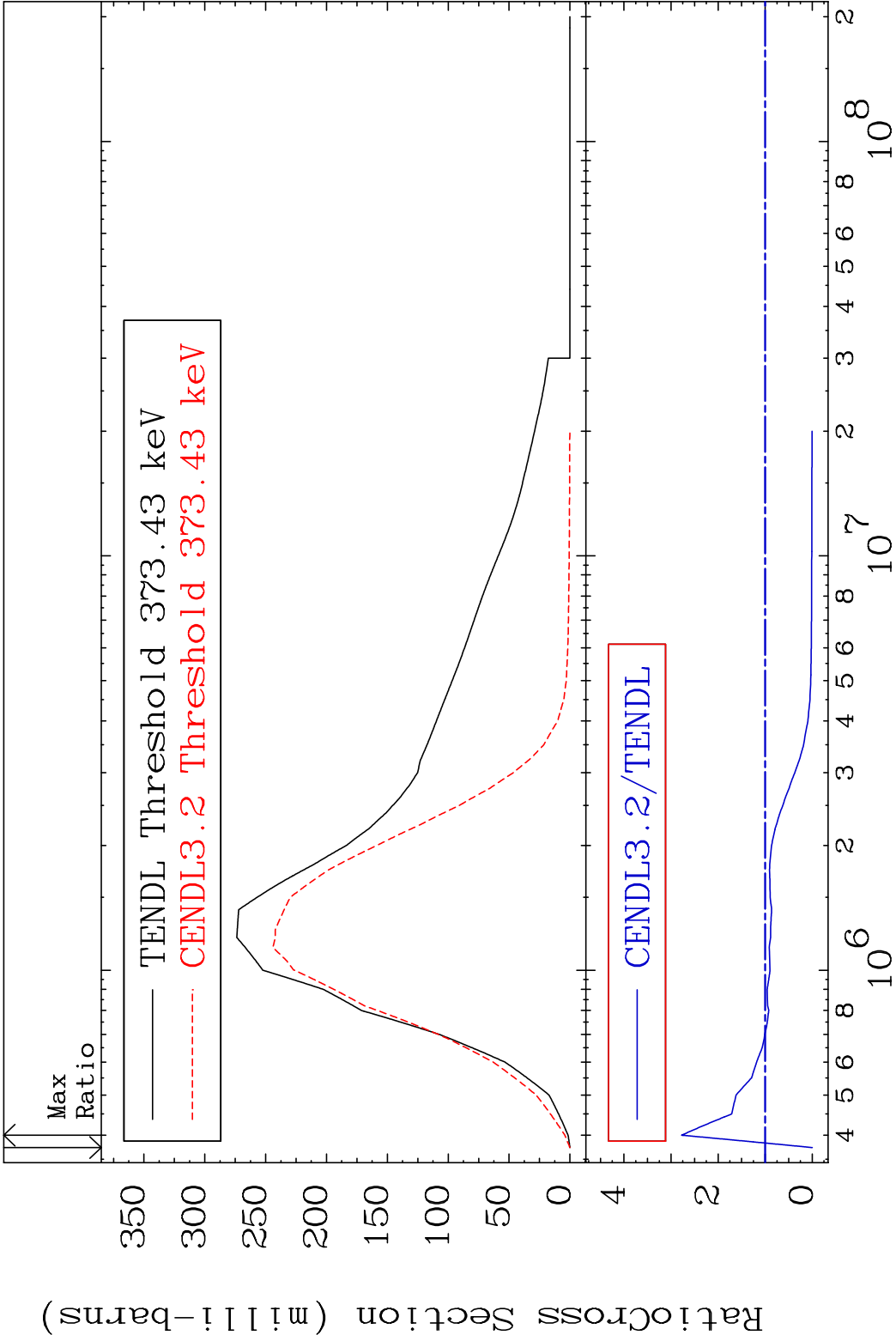
MAT 6431

MT= 52 (n,n') Level

64-Gd-154

Cross Section

-100.0 To 177.7 %

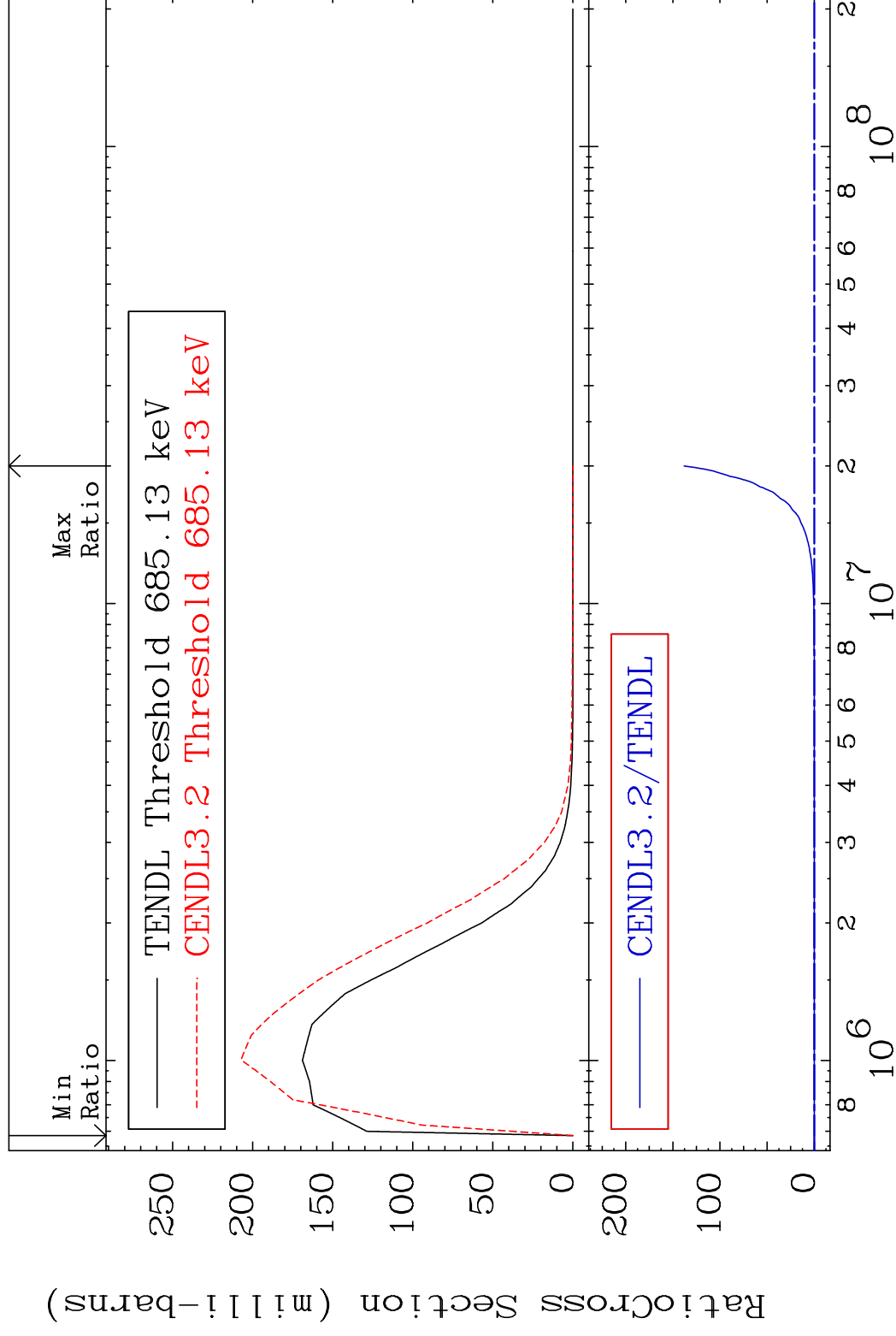


MAT 6431

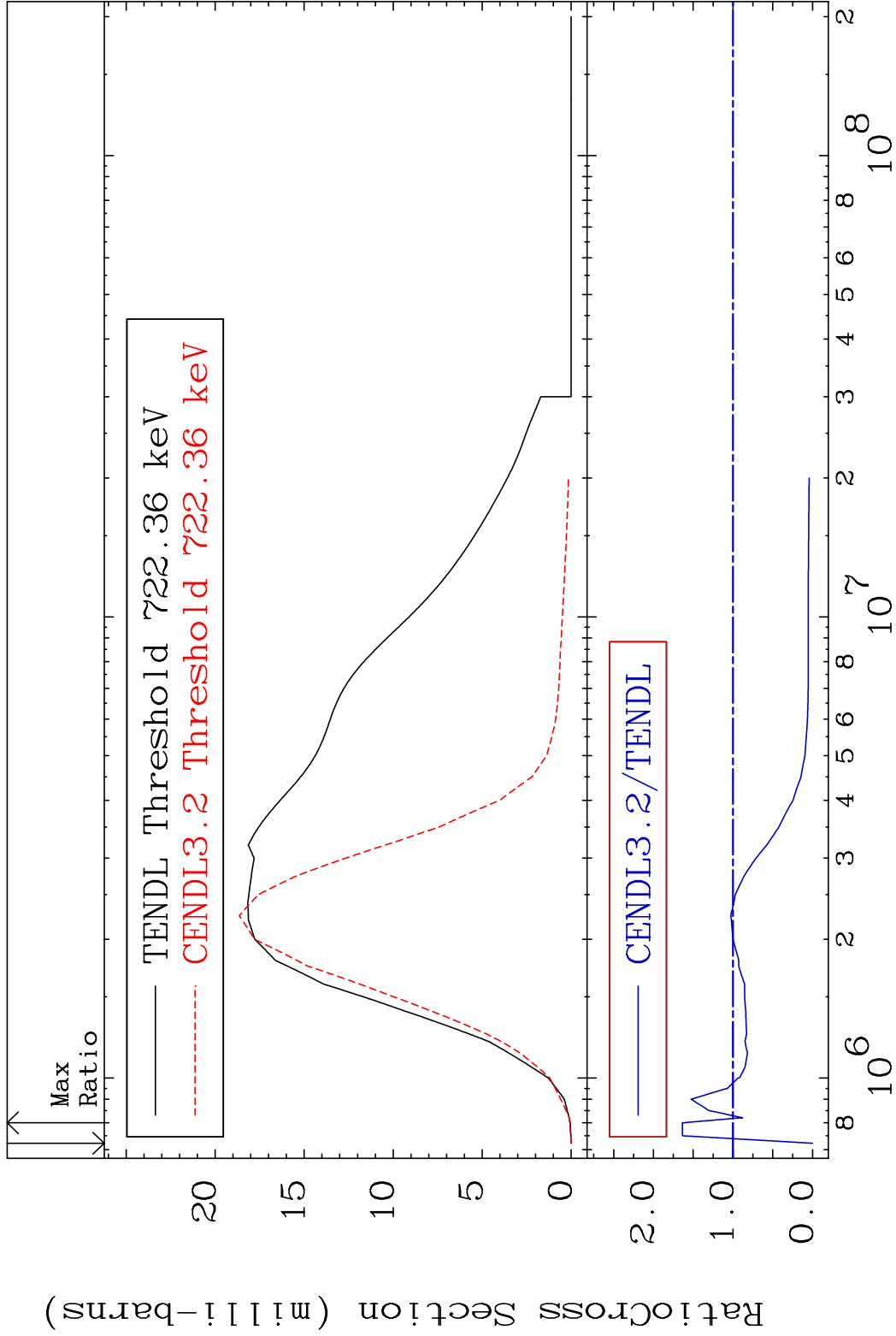
MT= 53 (n, n') Level

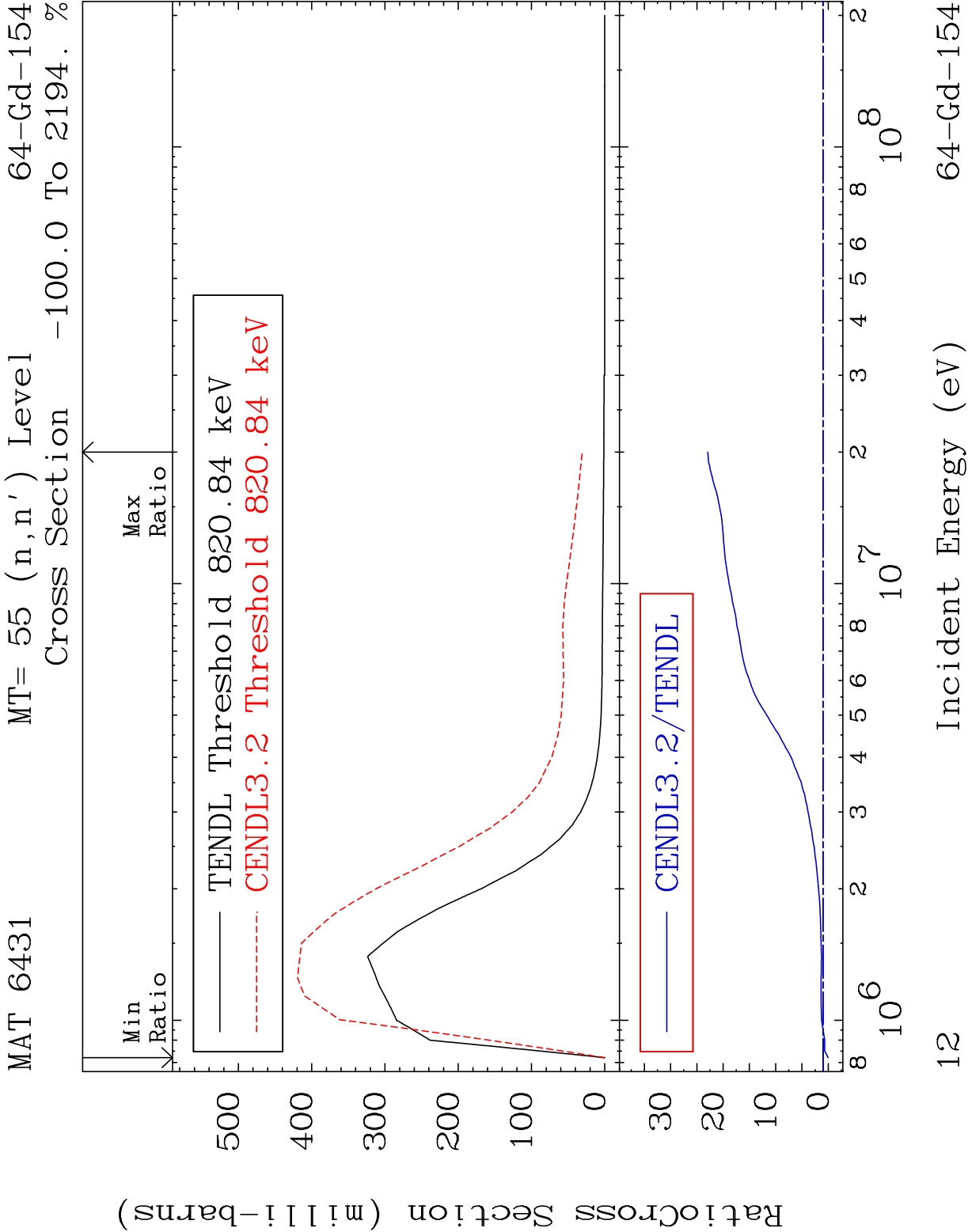
64-Gd-154

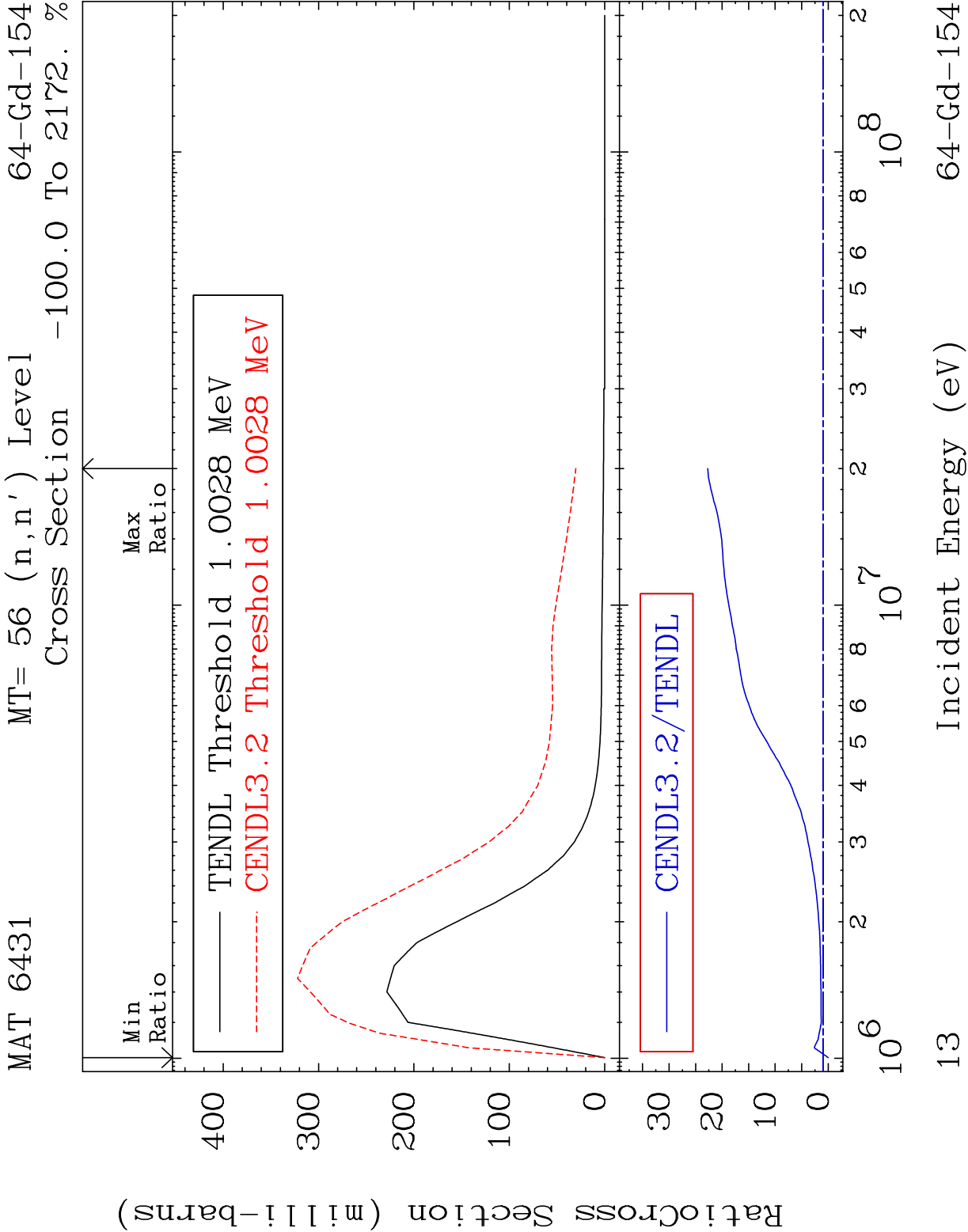
Cross Section -100.0 To 9999. %



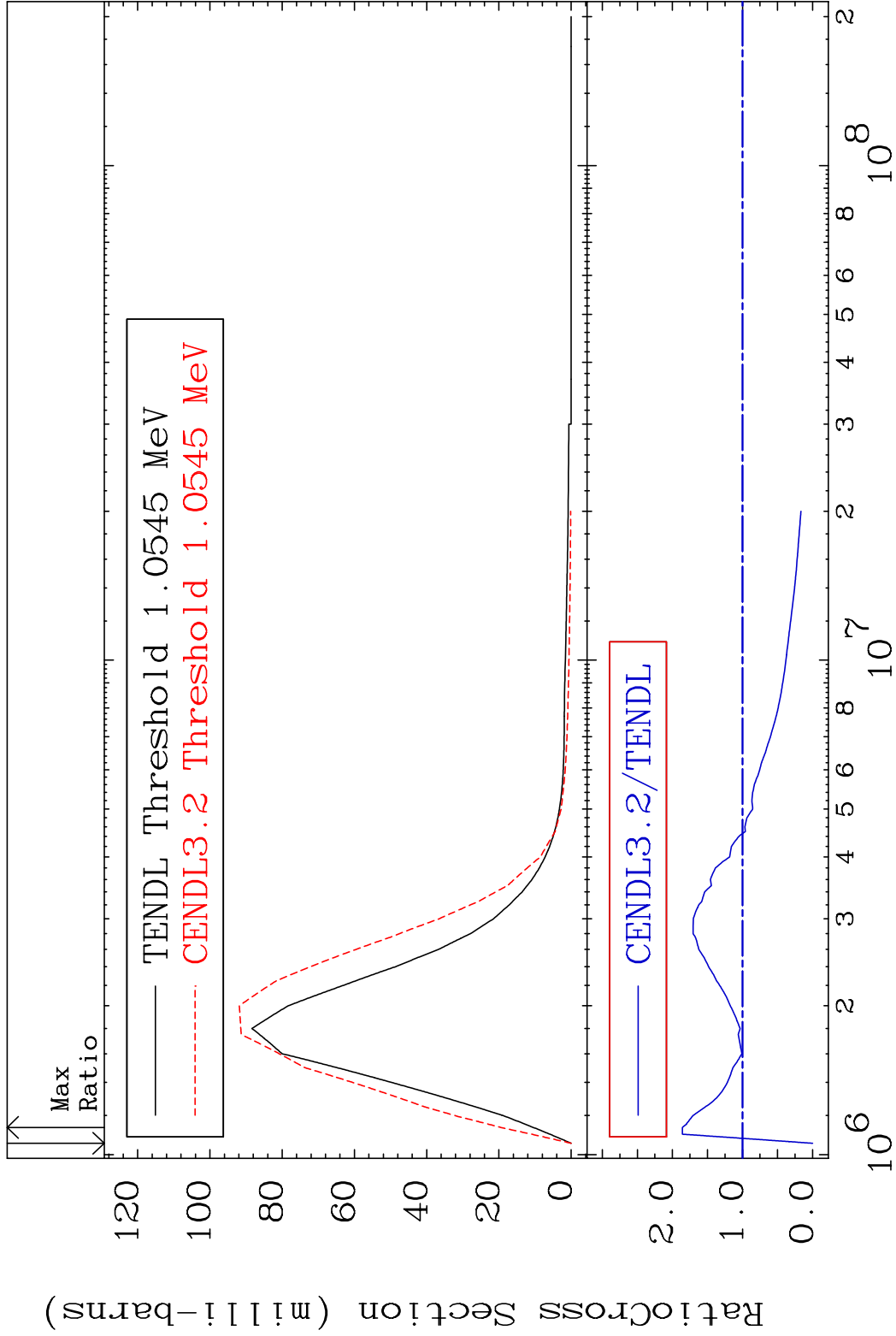
MAT 6431 MT= 54 (n,n') Level 64-Gd-154
Cross Section -100.0 To 63.65 %



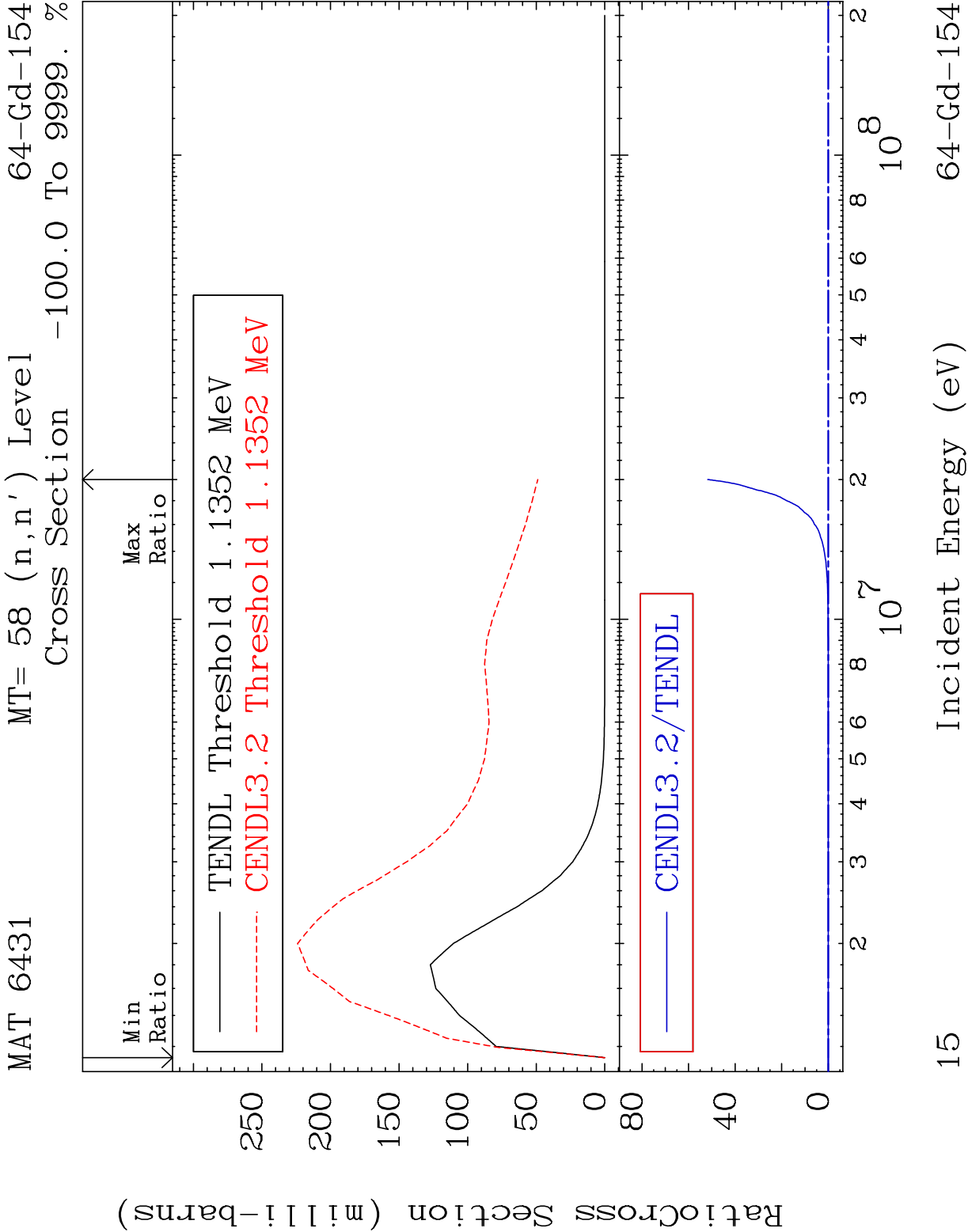


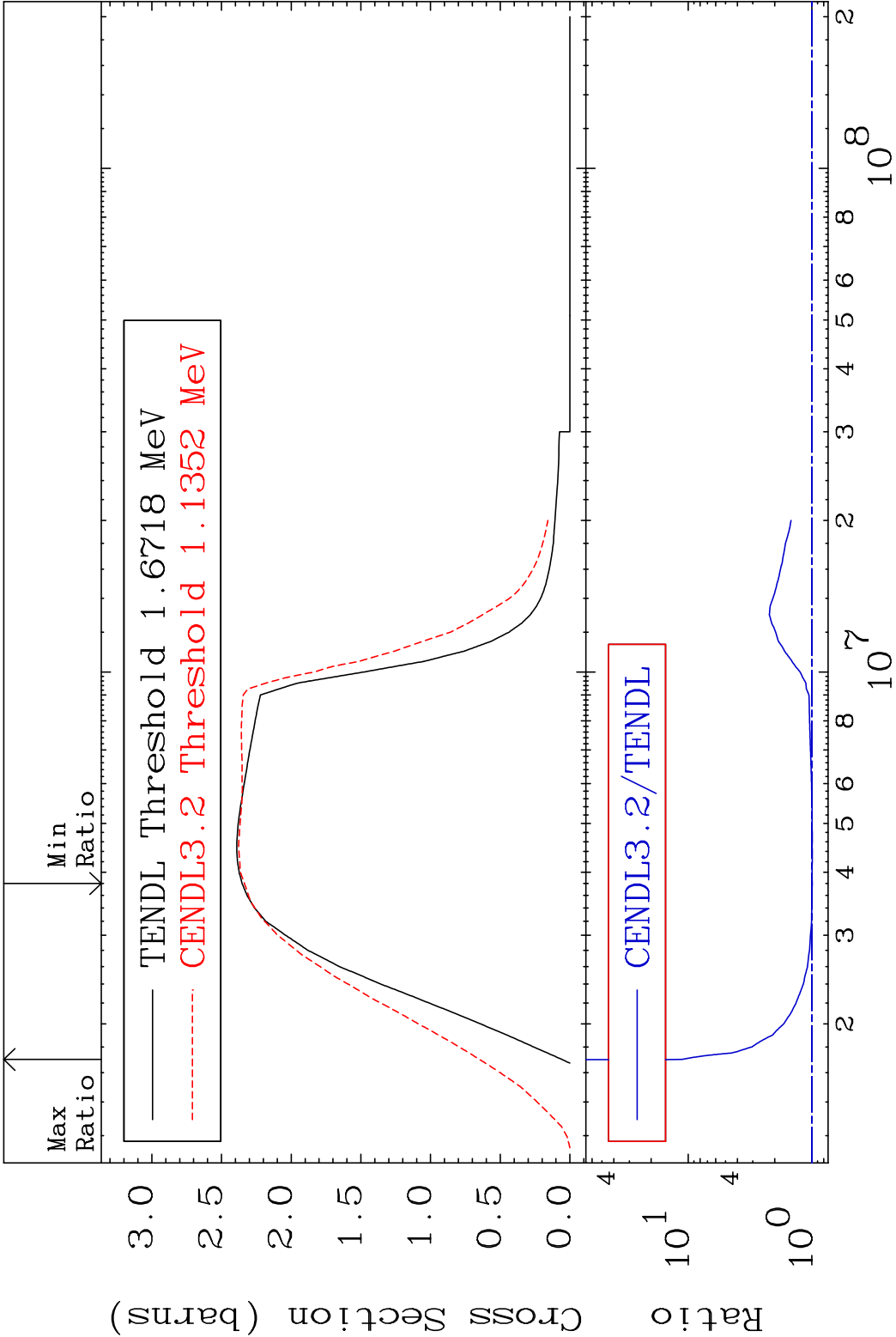


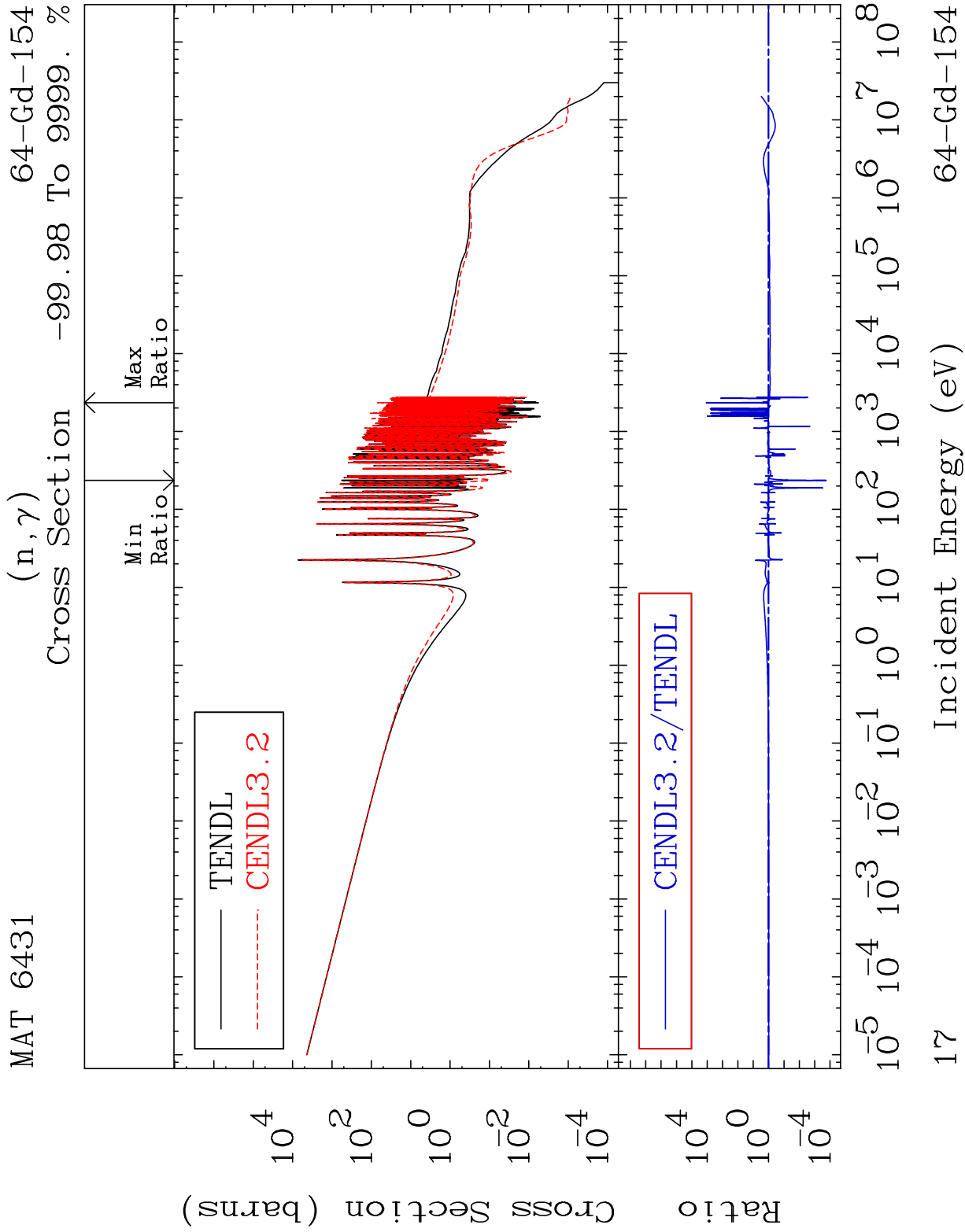
MAT 6431 MT= 57 (n,n') Level 64-Gd-154
Cross Section -100.0 To 85.81 %

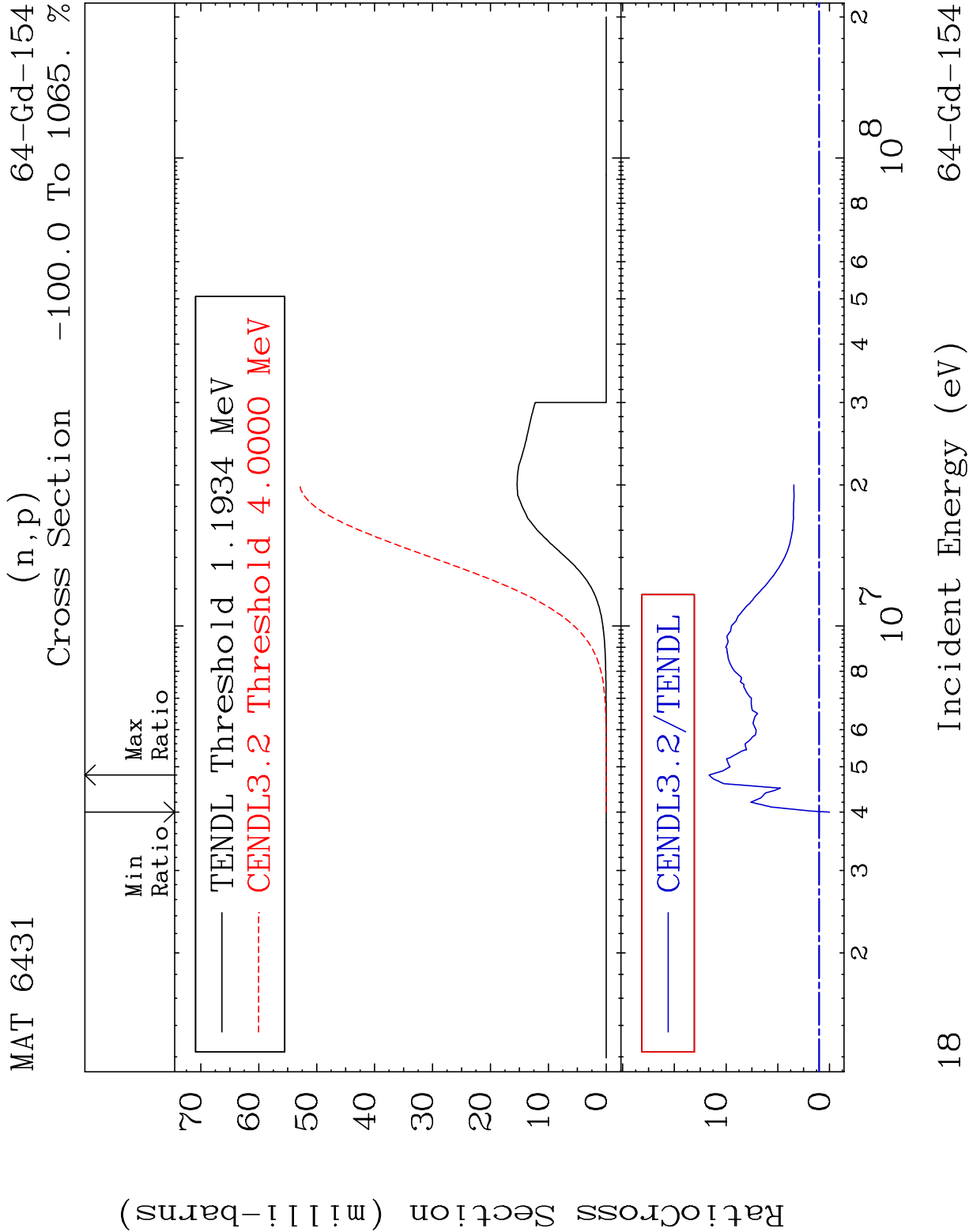


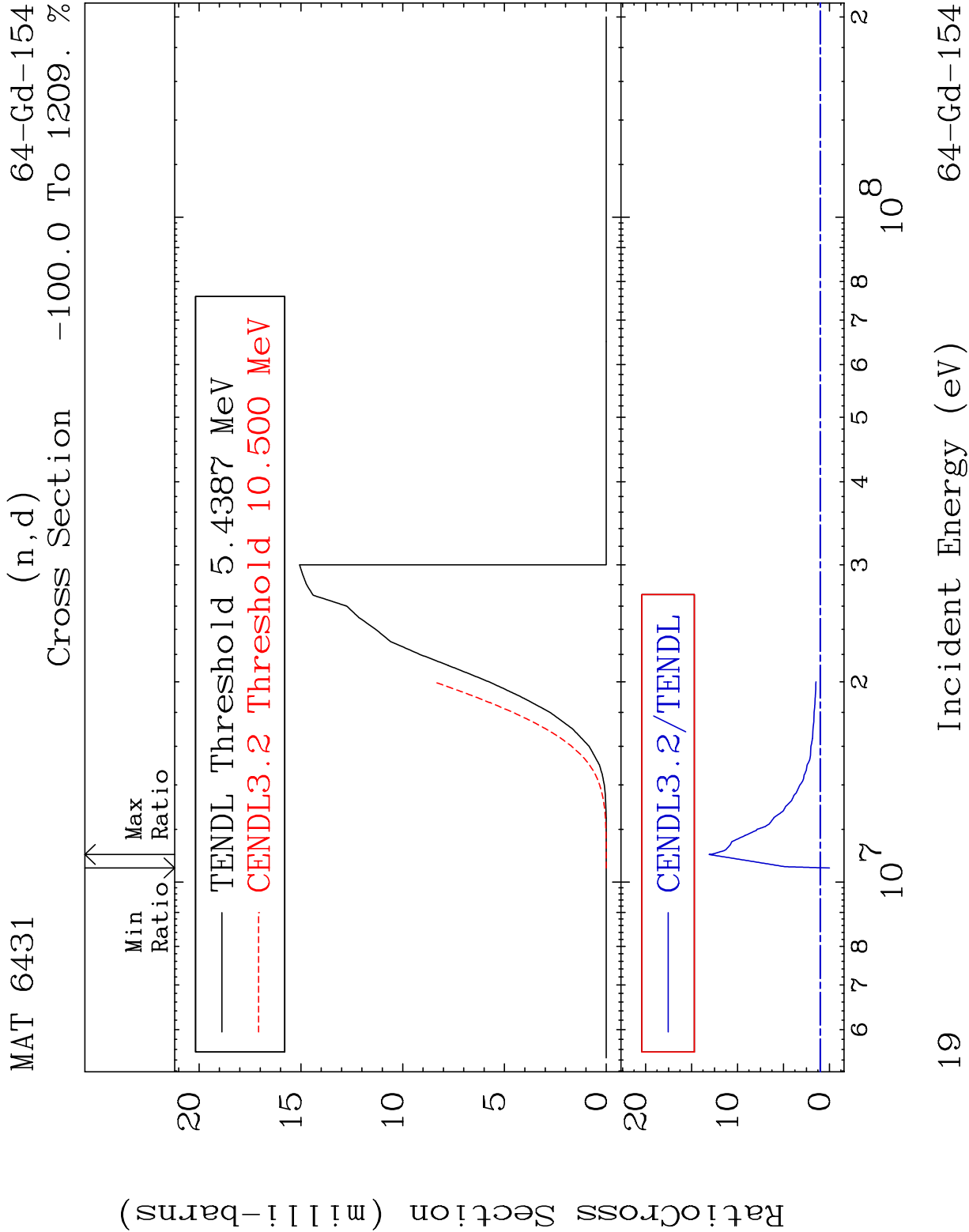
14 Incident Energy (eV) 64-Gd-154

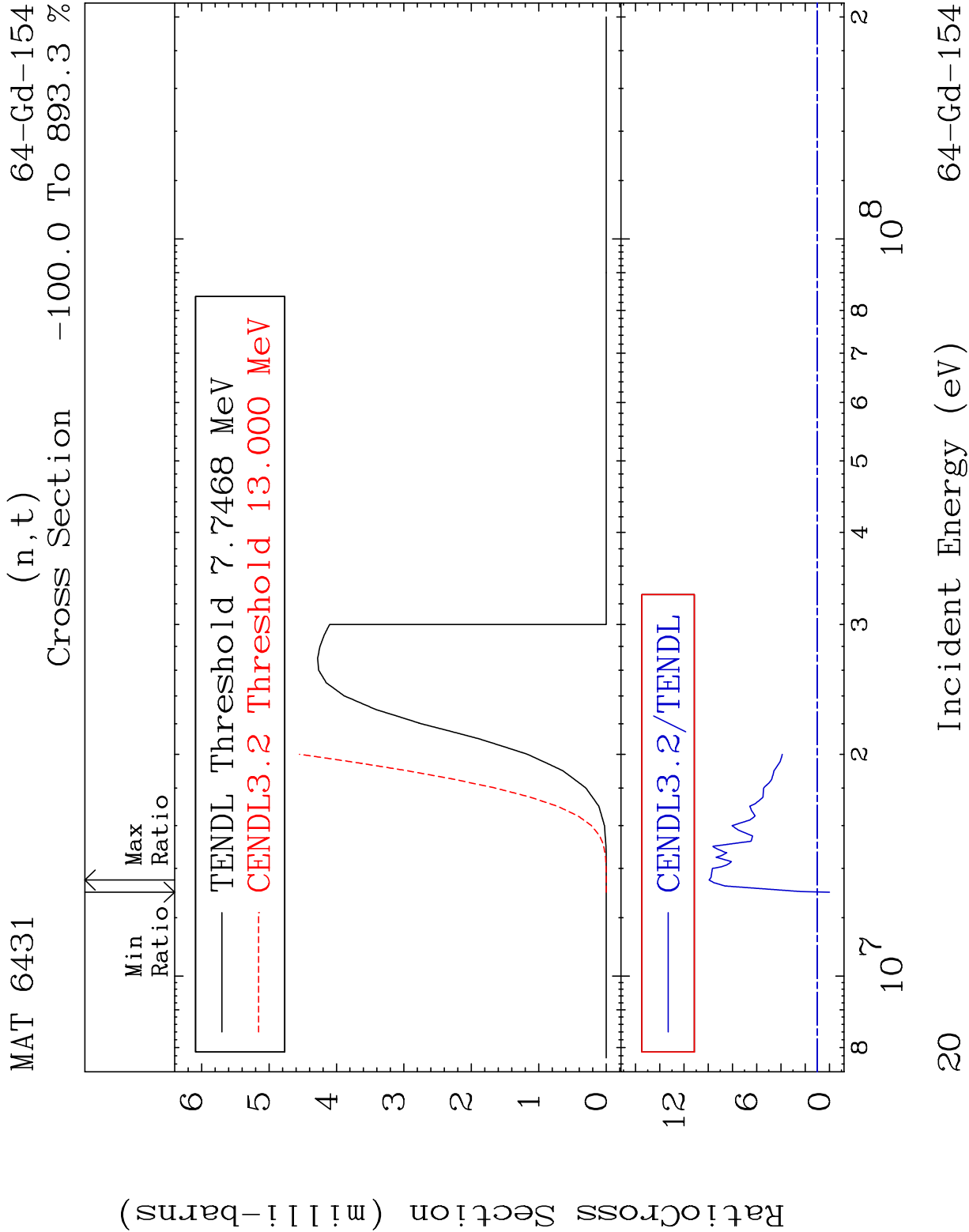










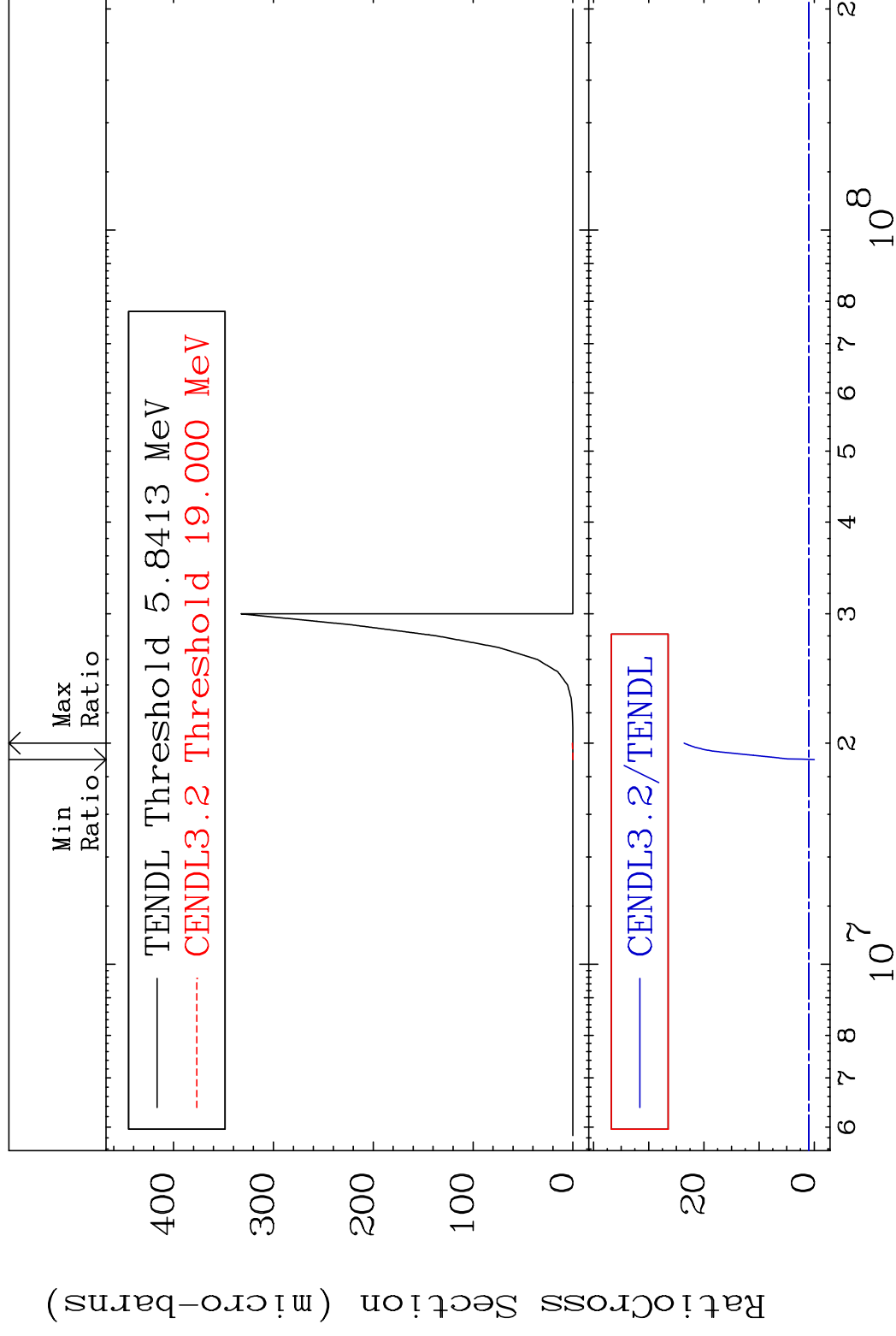


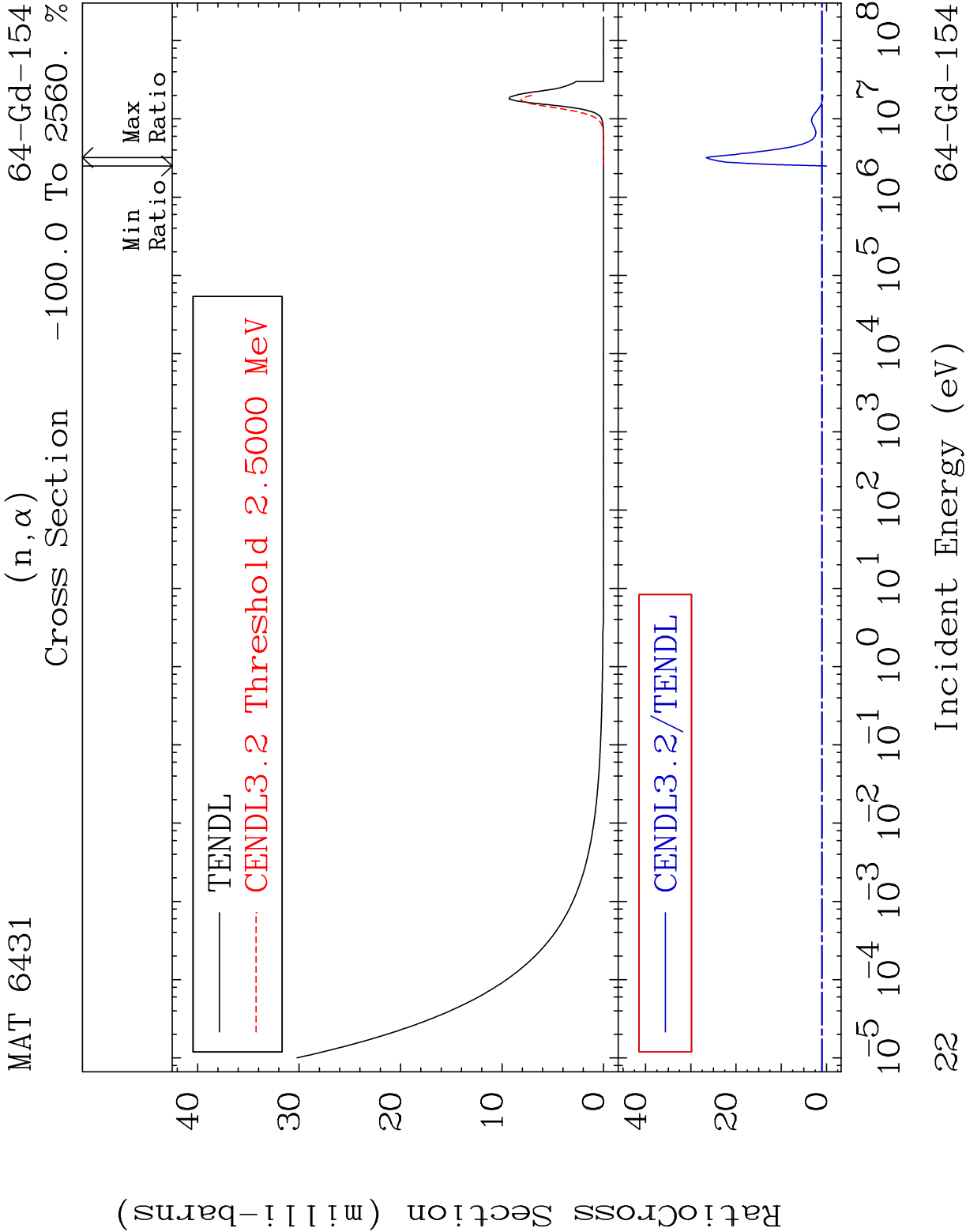
MAT 6431

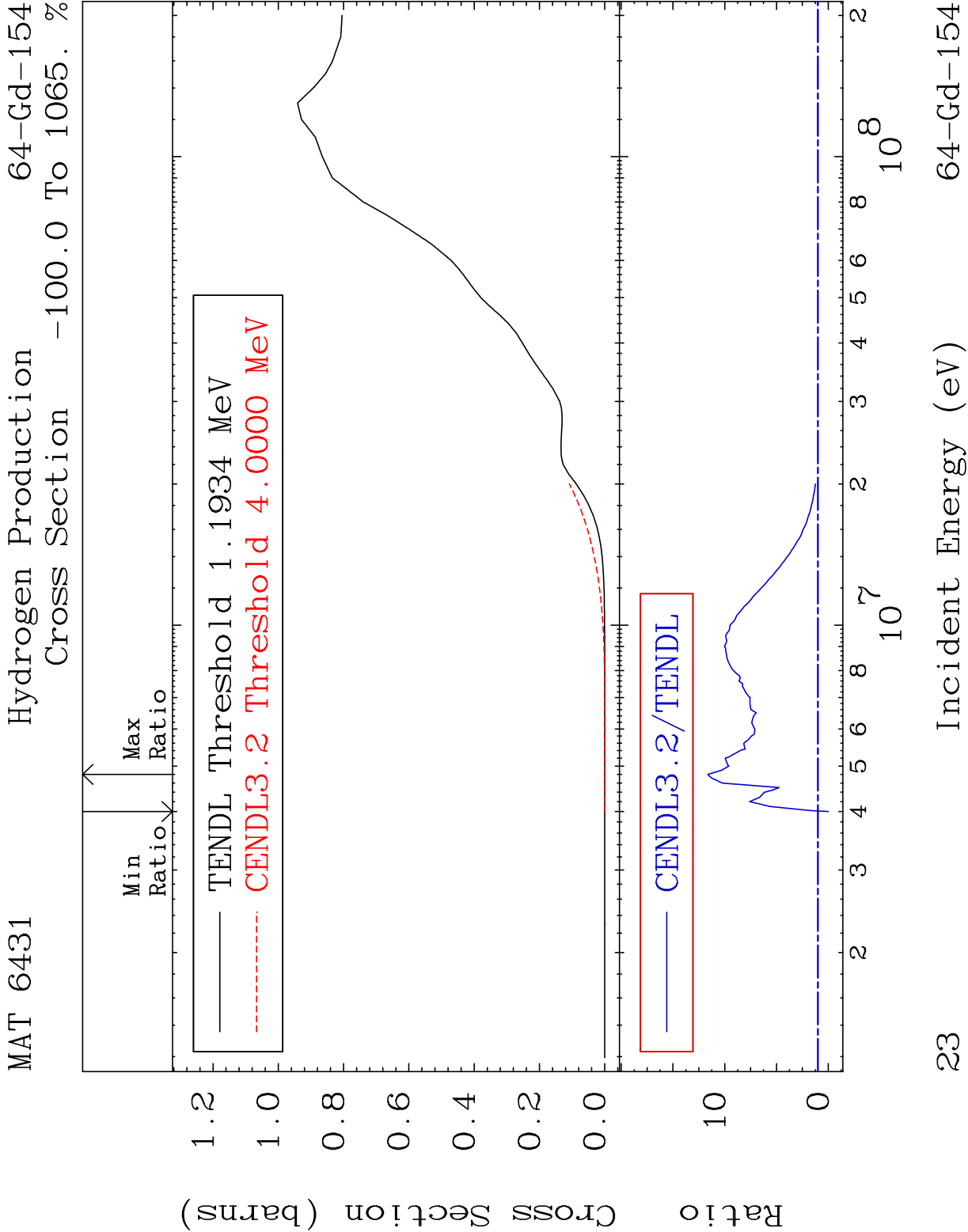
 $(n, \text{He-3})$

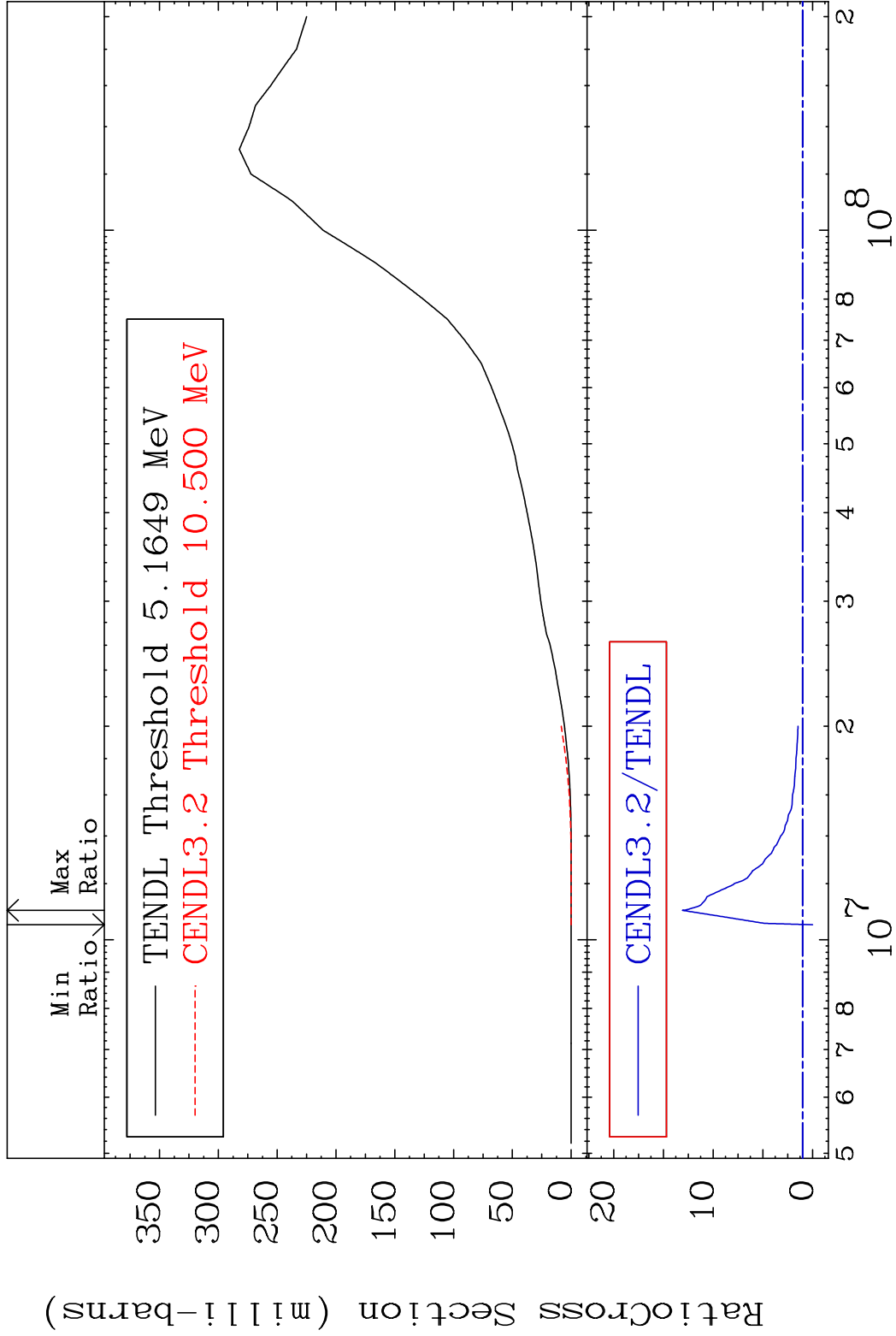
64-Gd-154

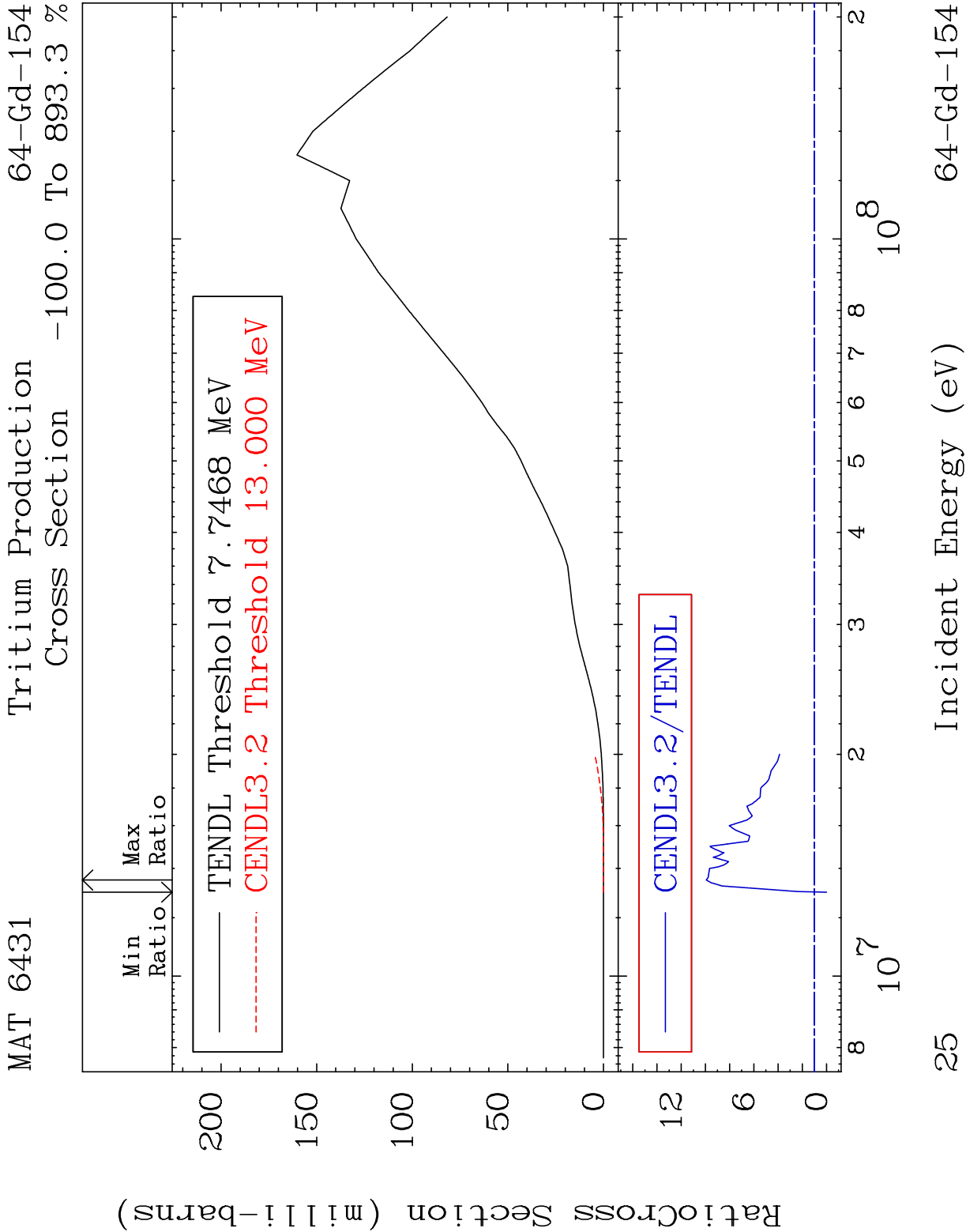
Cross Section	-100.0 To 2260. %

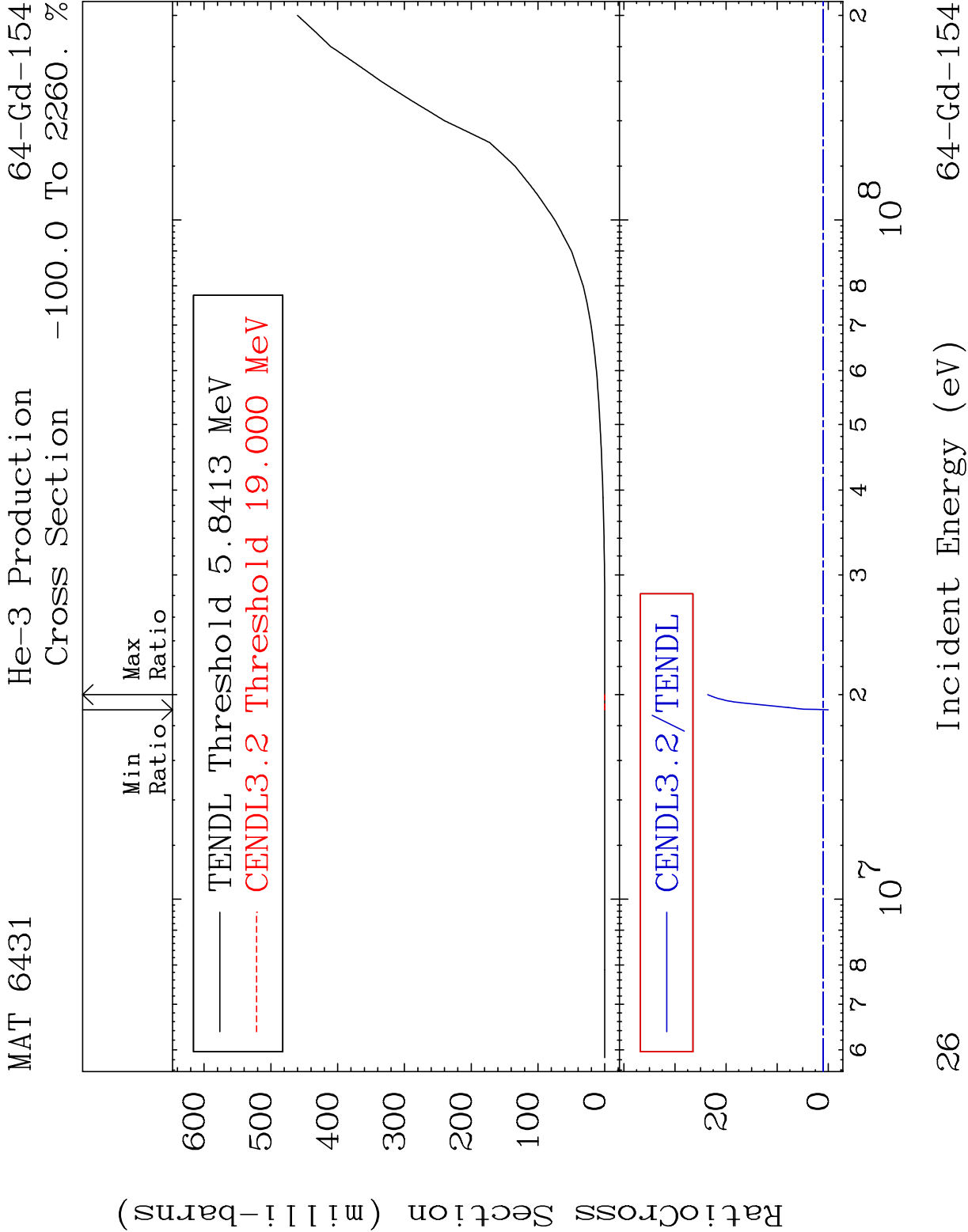




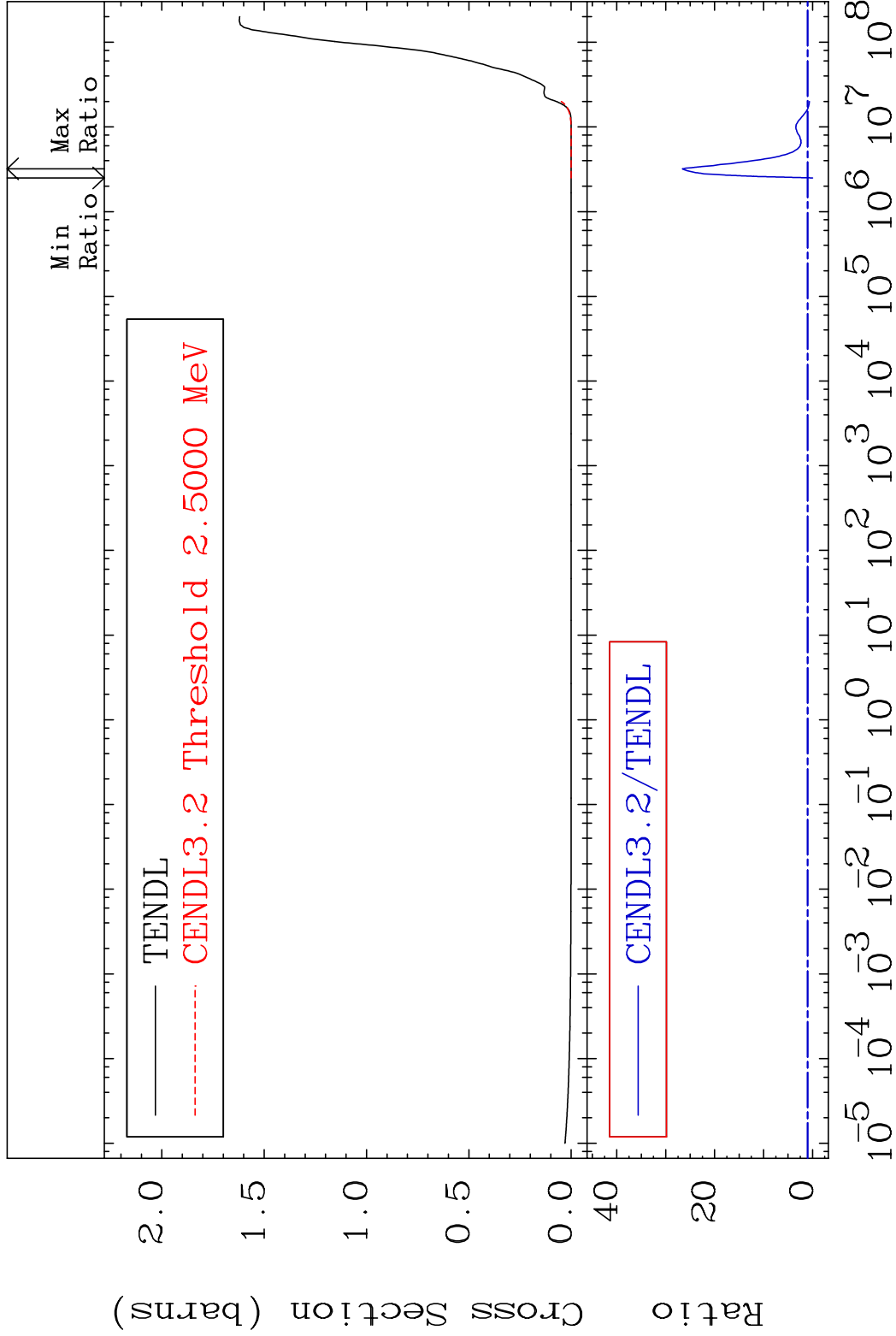






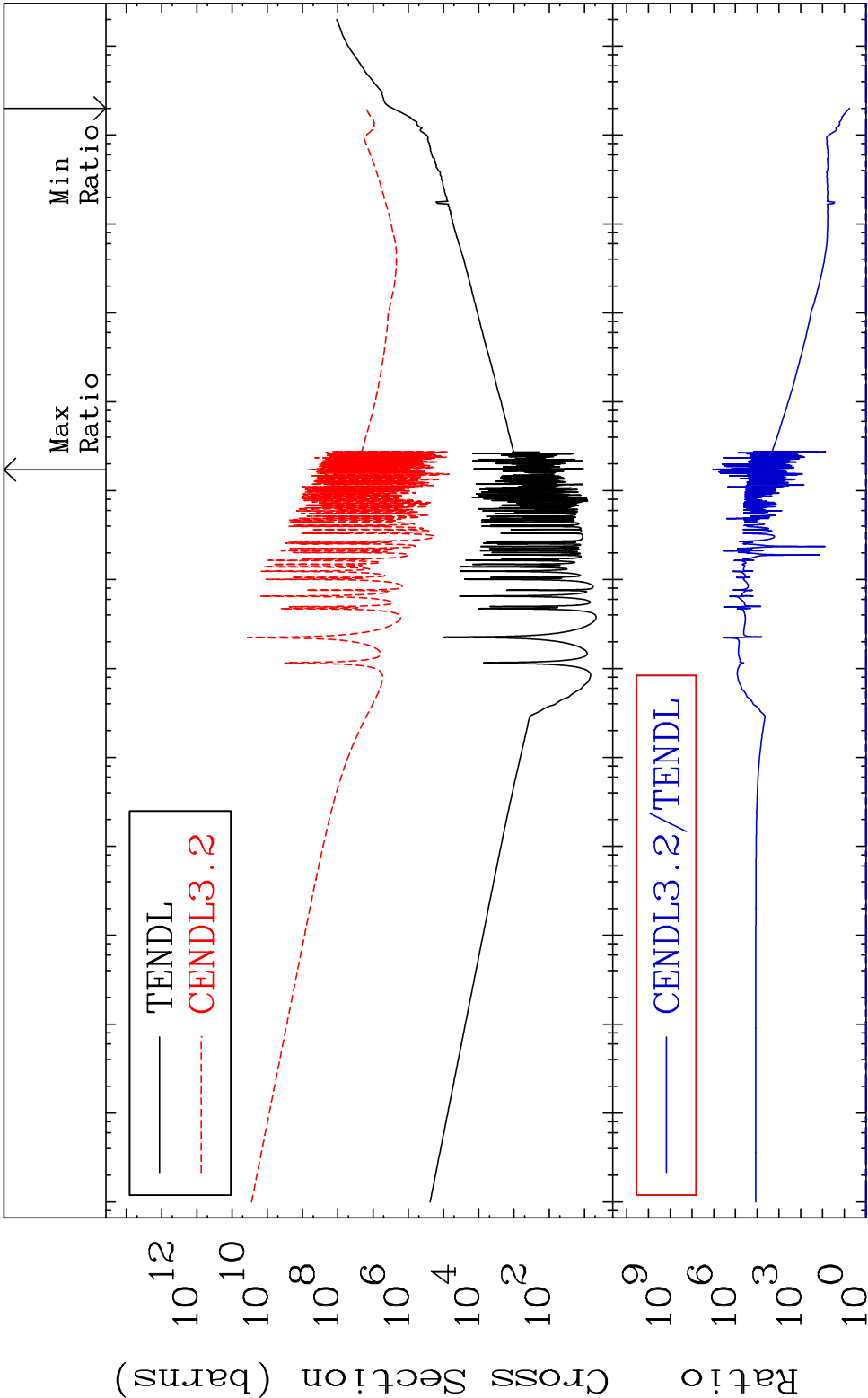


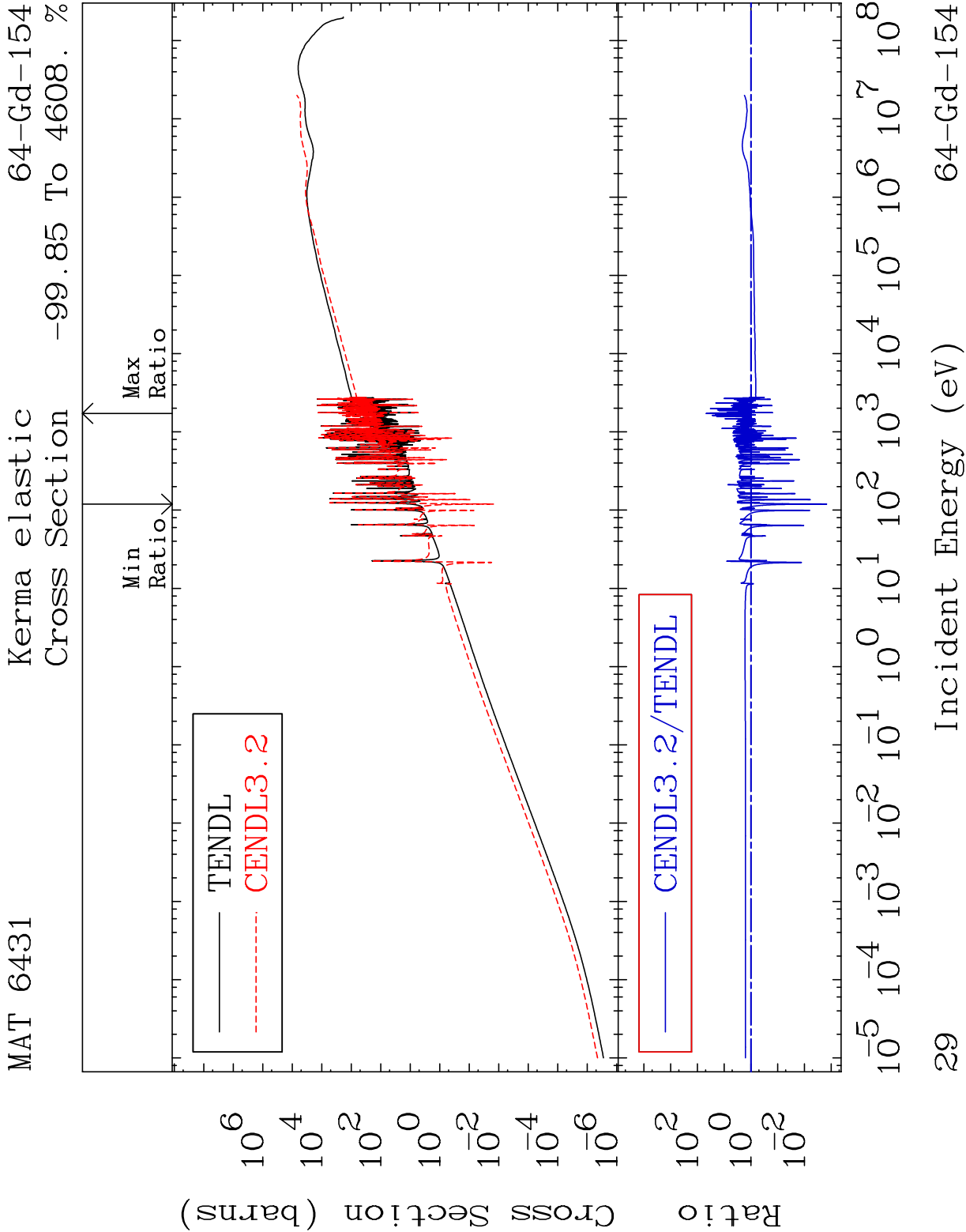
MAT 6431 He-4 Production 64-Gd-154
Cross Section -100.0 To 2560. %



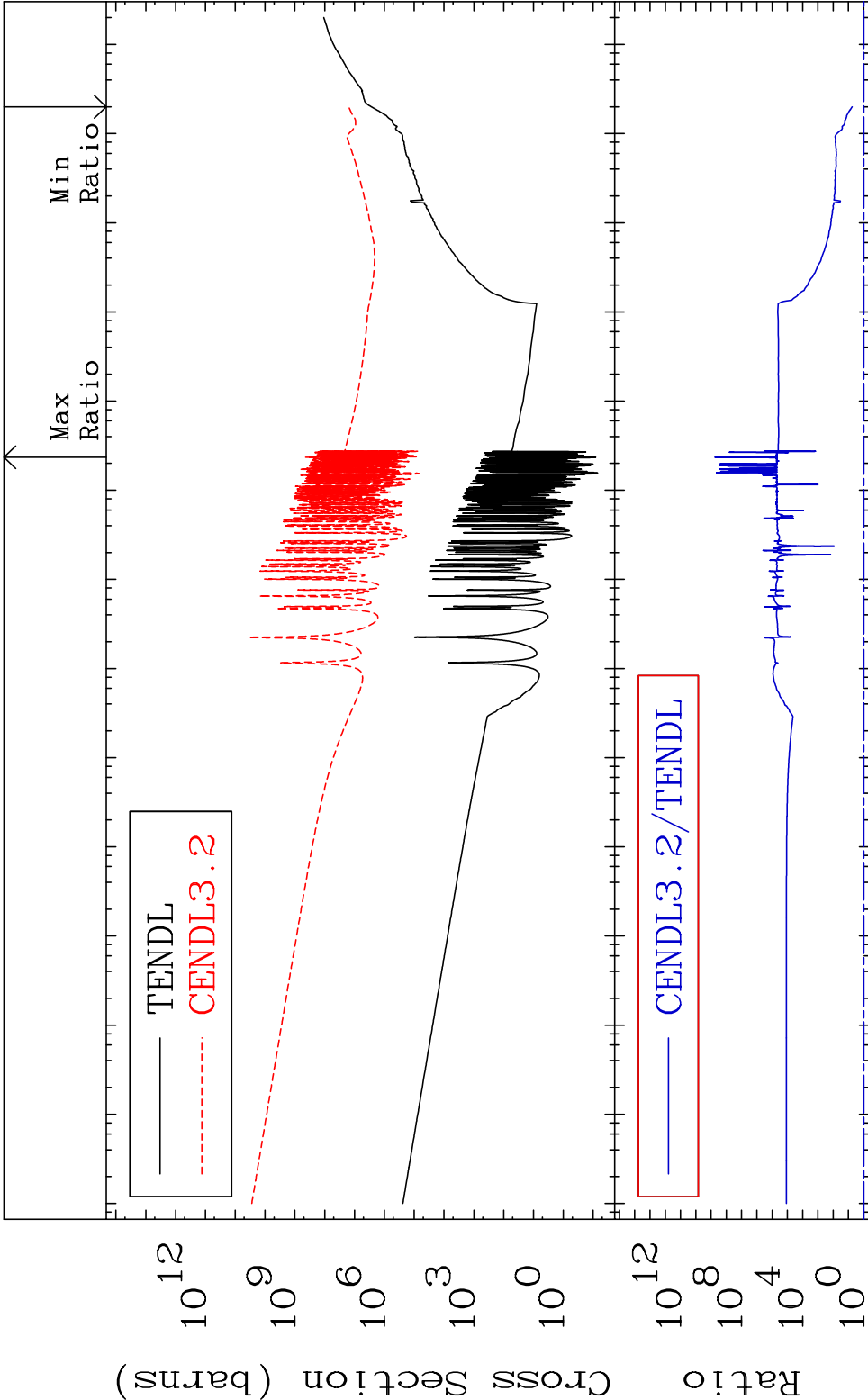
27 Incident Energy (eV) 64-Gd-154

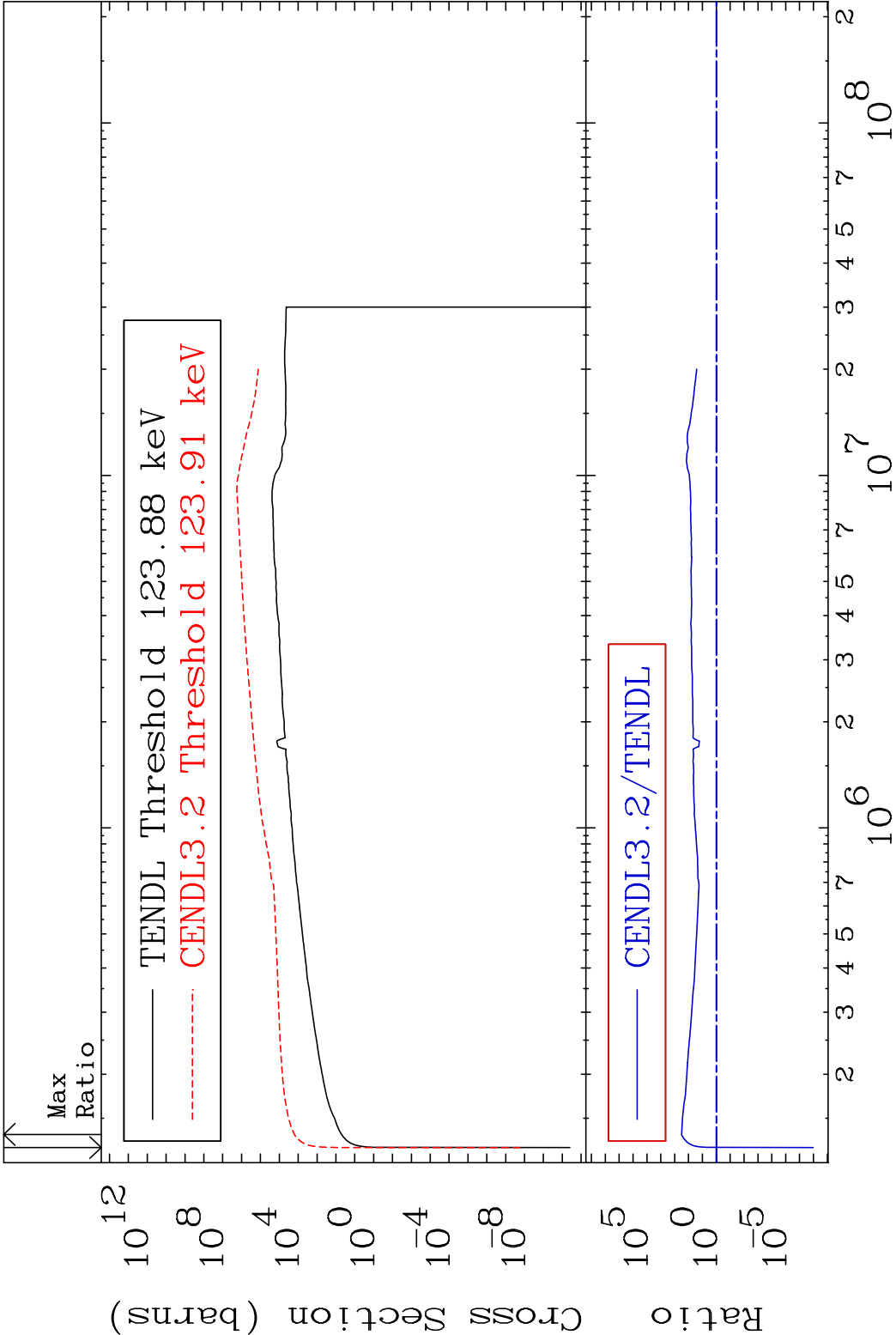
MAT 6431	Kerma total (eV-barns)	64-Gd-154
	Cross Section	469.3 To 9999. %



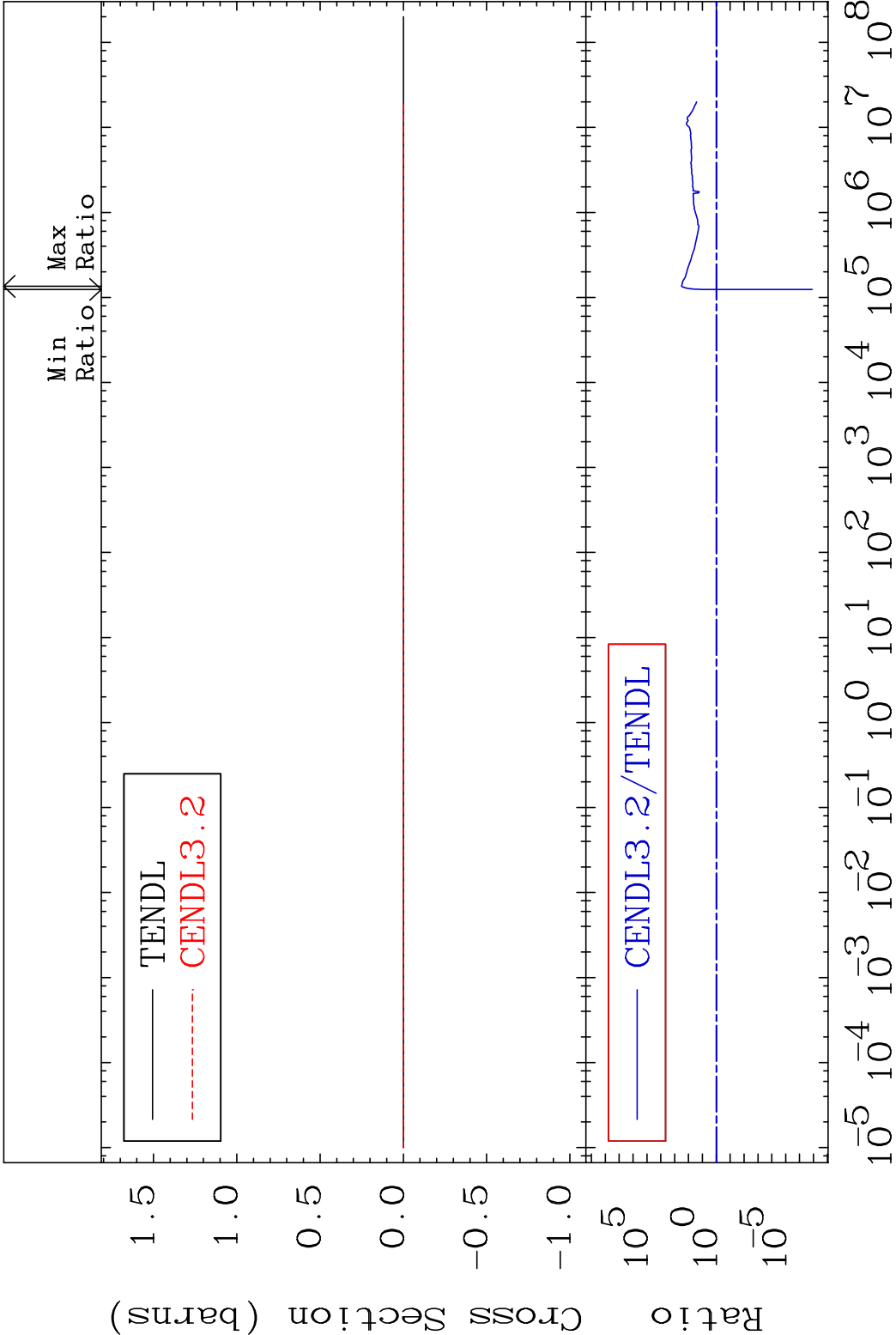


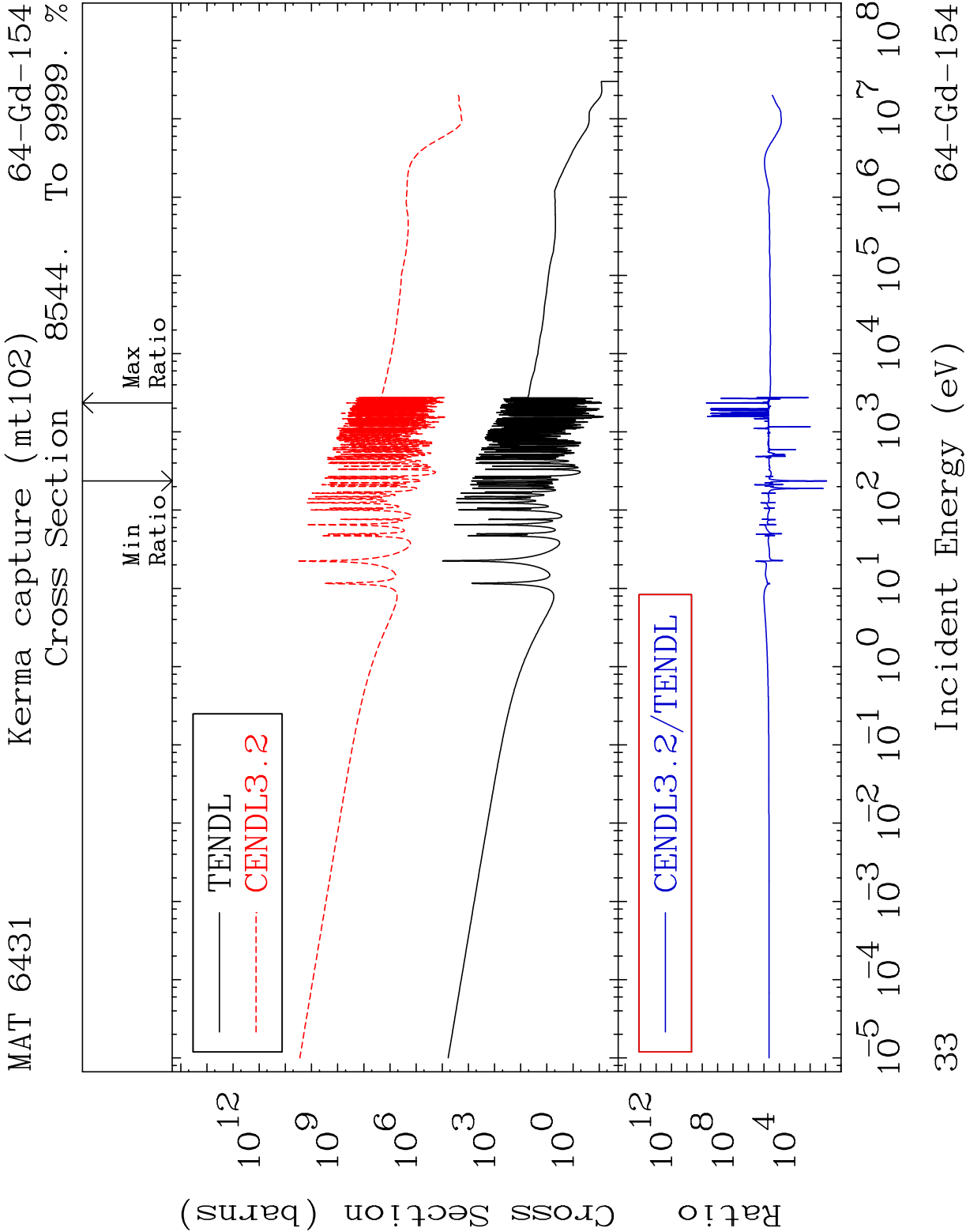
MAT 6431	Kerma non-elastic (all but mt2)	64-Gd-154
	Cross Section	474.9 To 9999. %

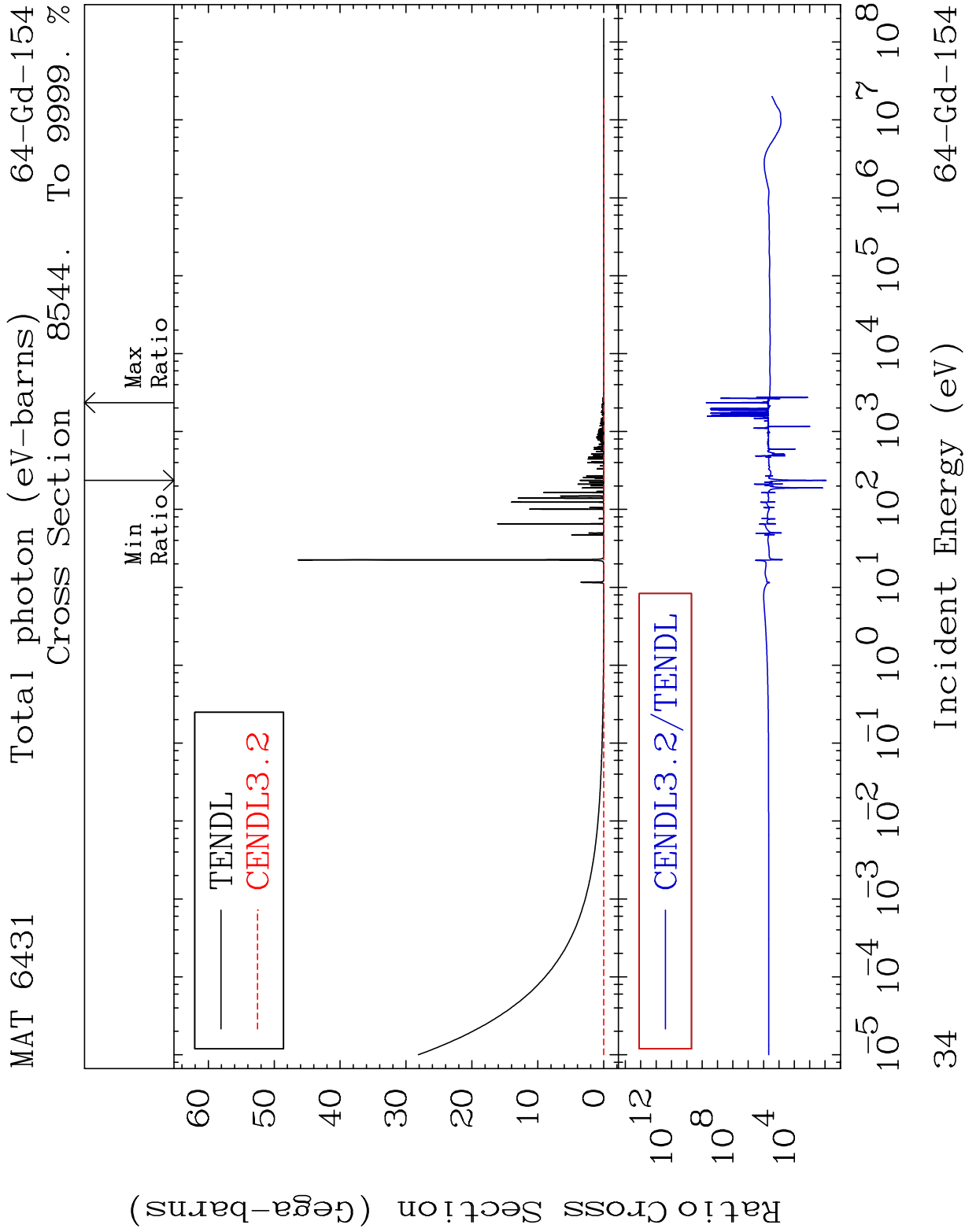




MAT 6431 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-154
 Cross Section -100.0 To 9999. %

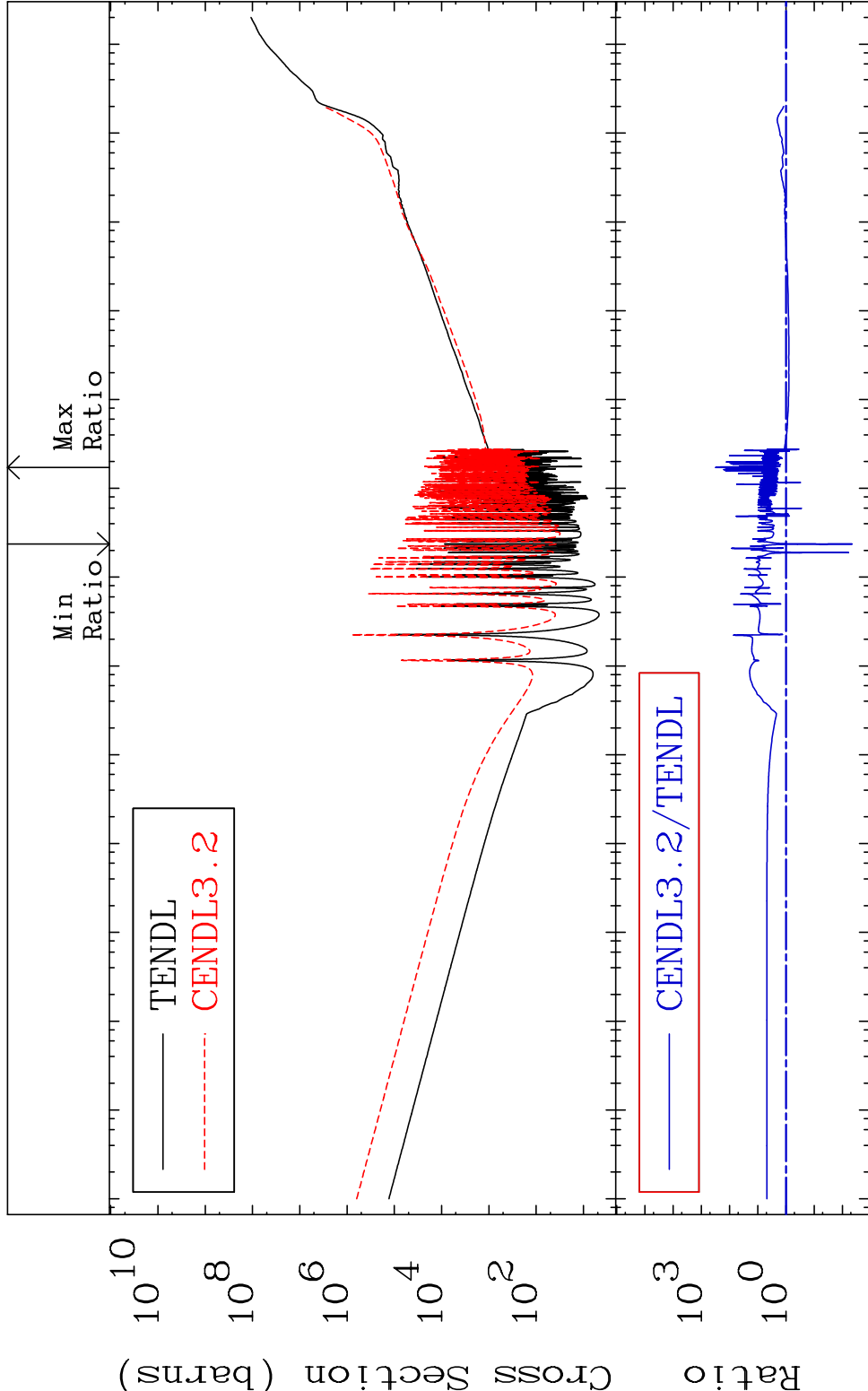




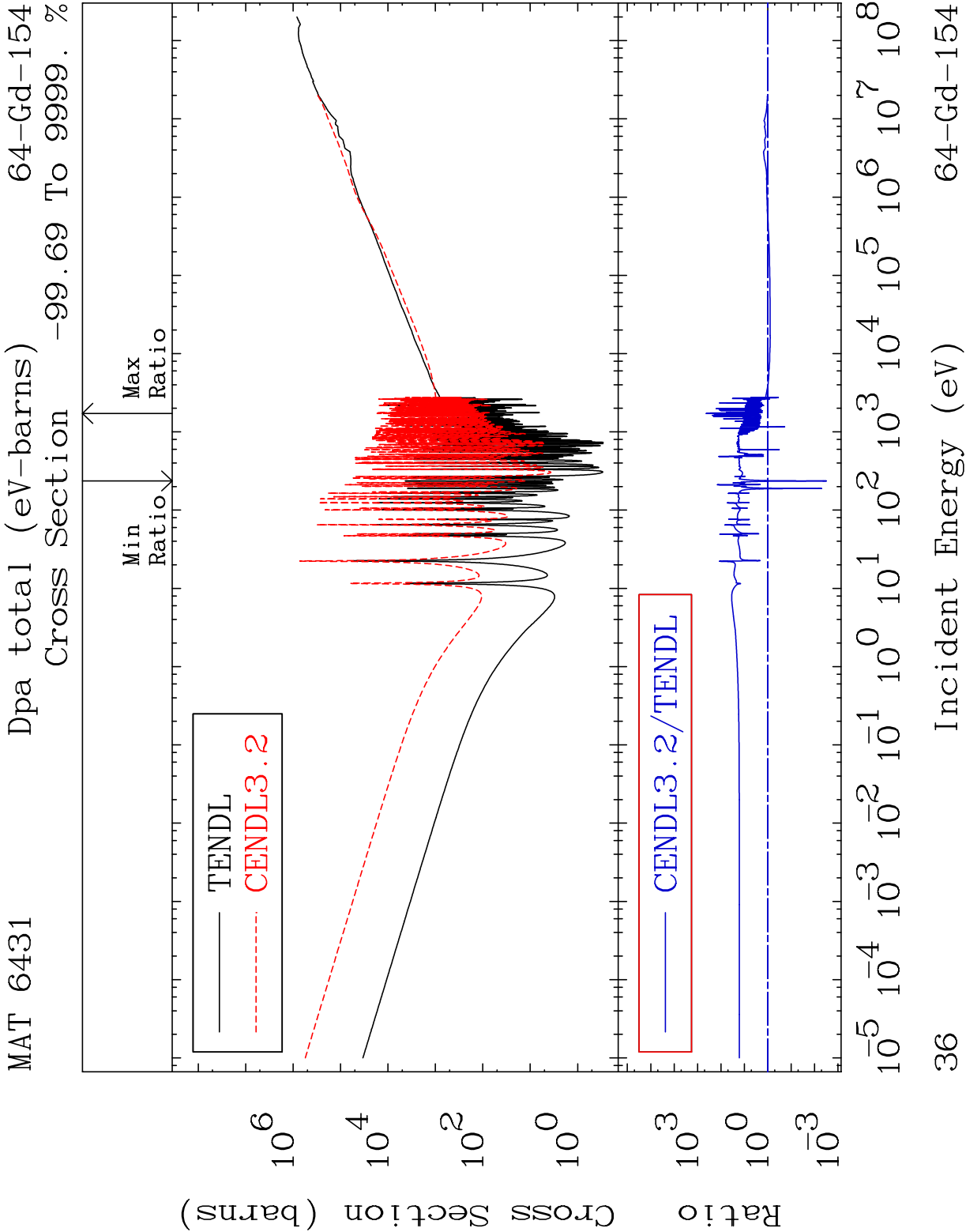


MAT 6431 Total kinematic kerma (high limit) 64-Gd-154

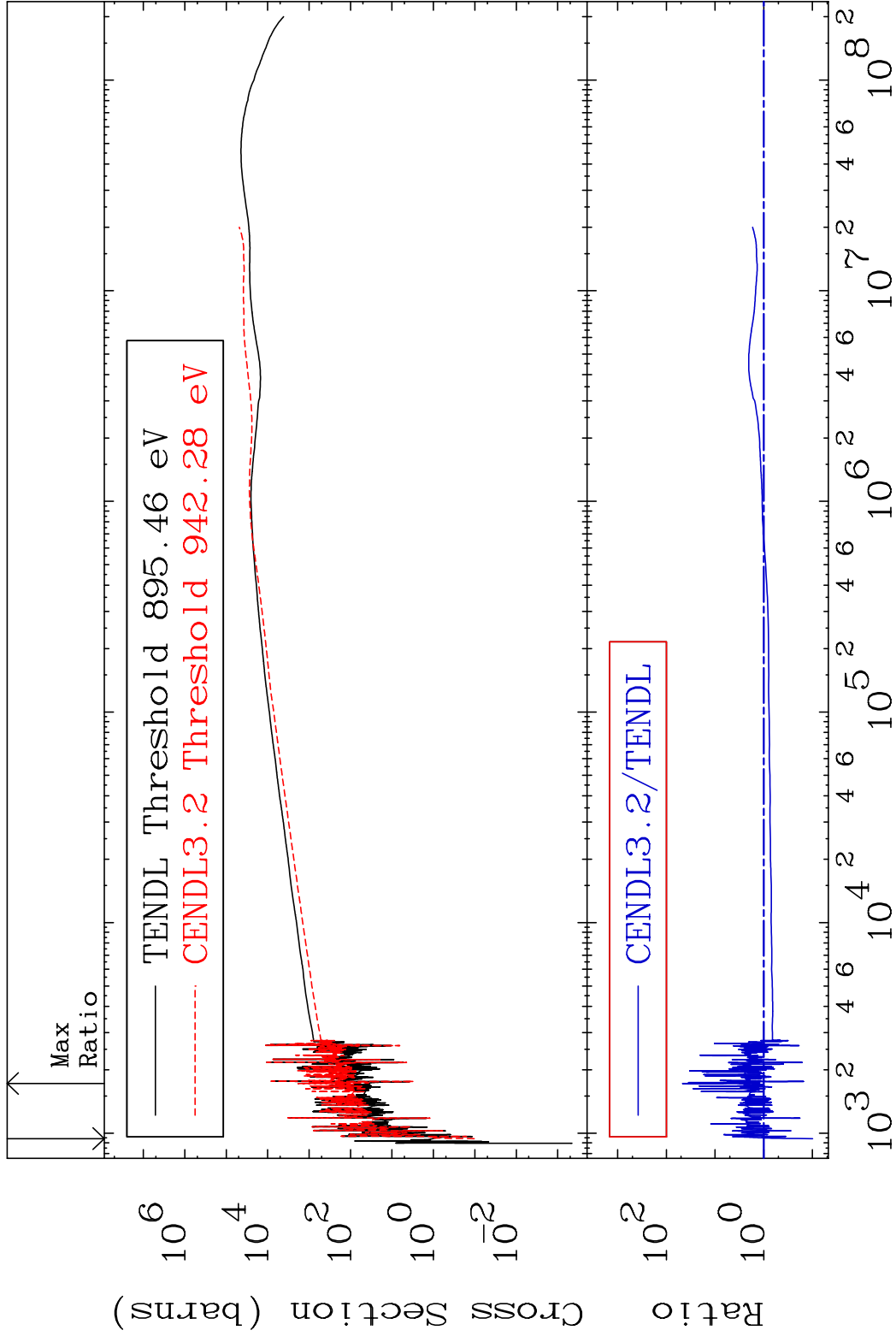
Cross Section -99.55 To 9999. %

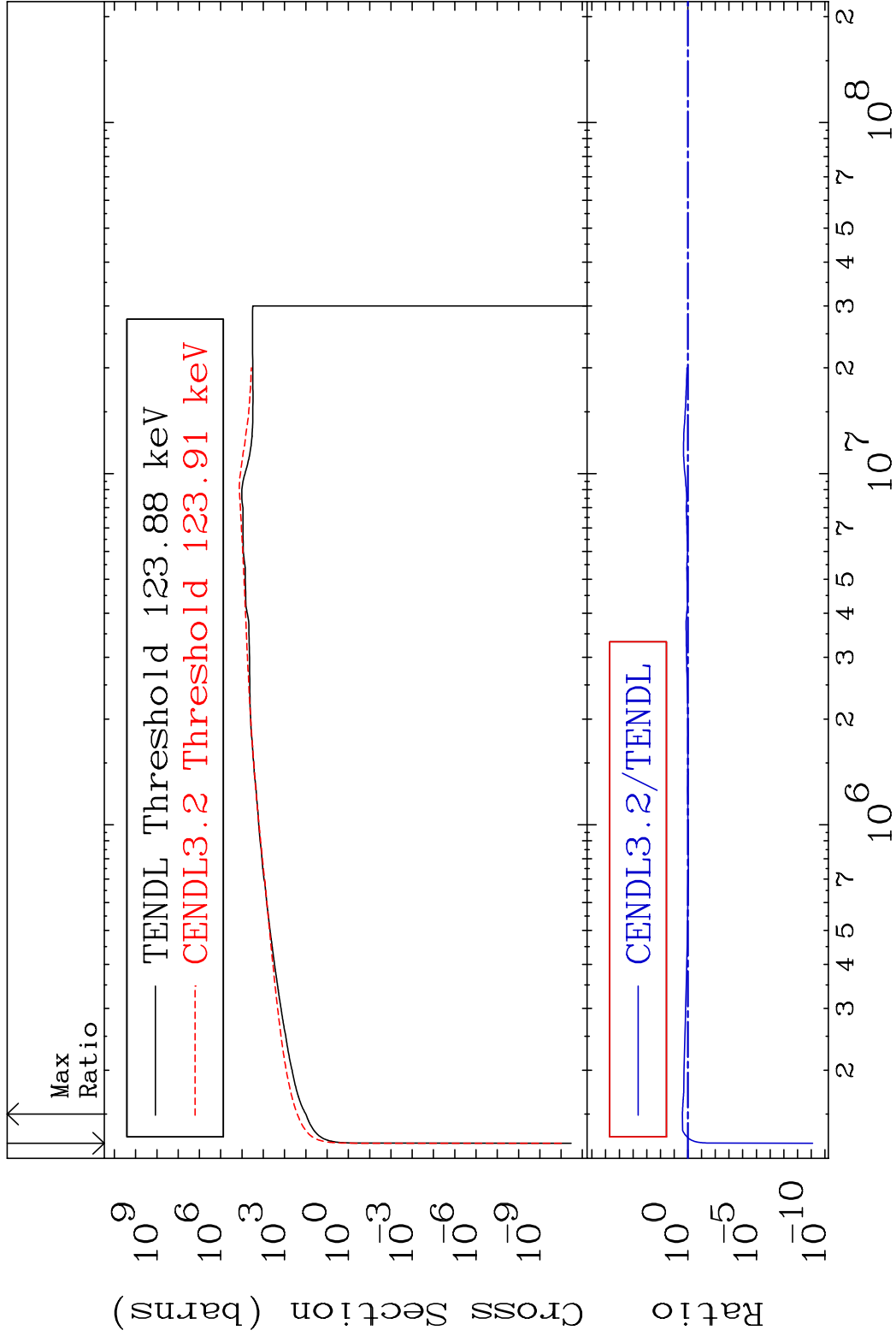


Incident Energy (eV) 64-Gd-154

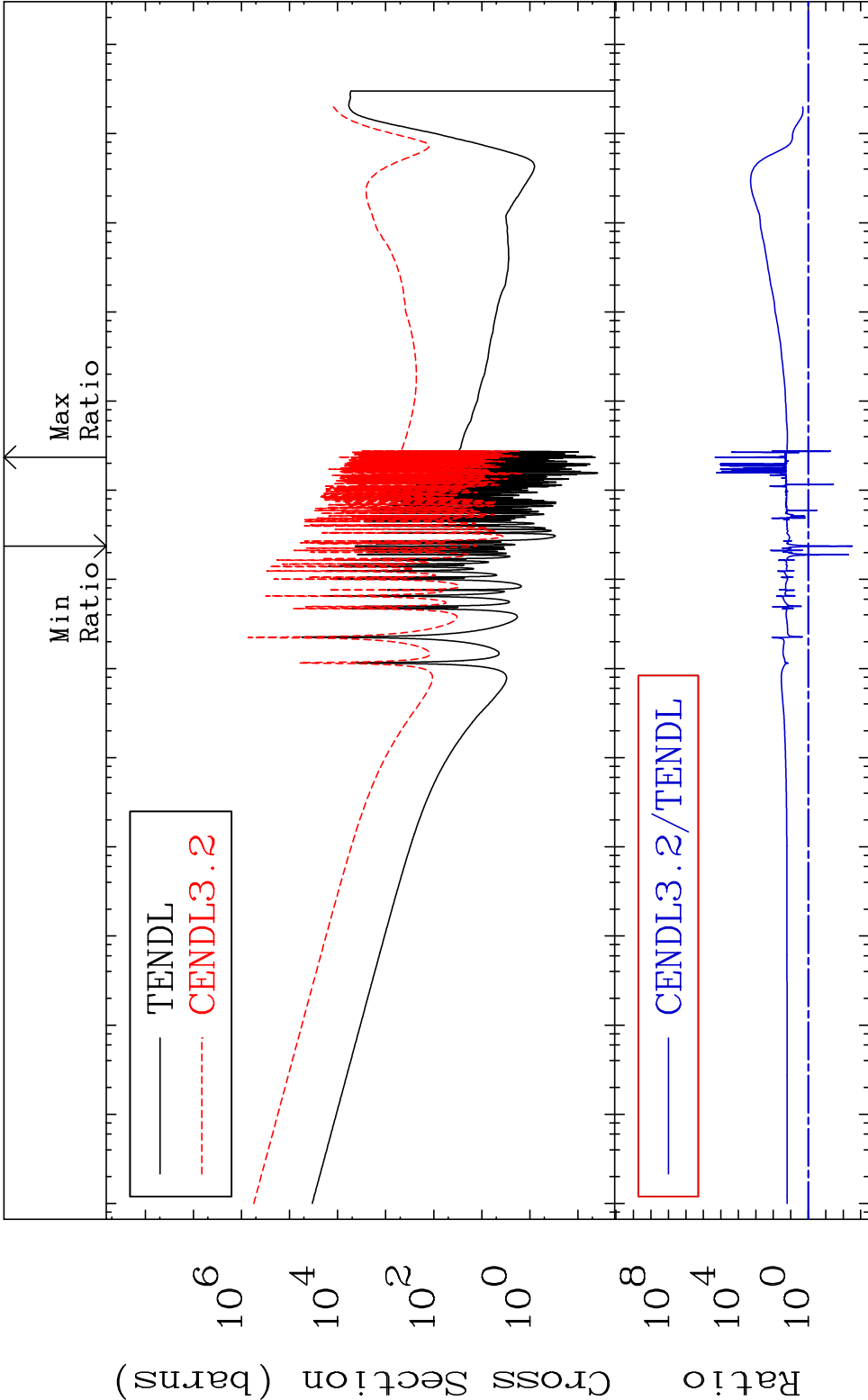


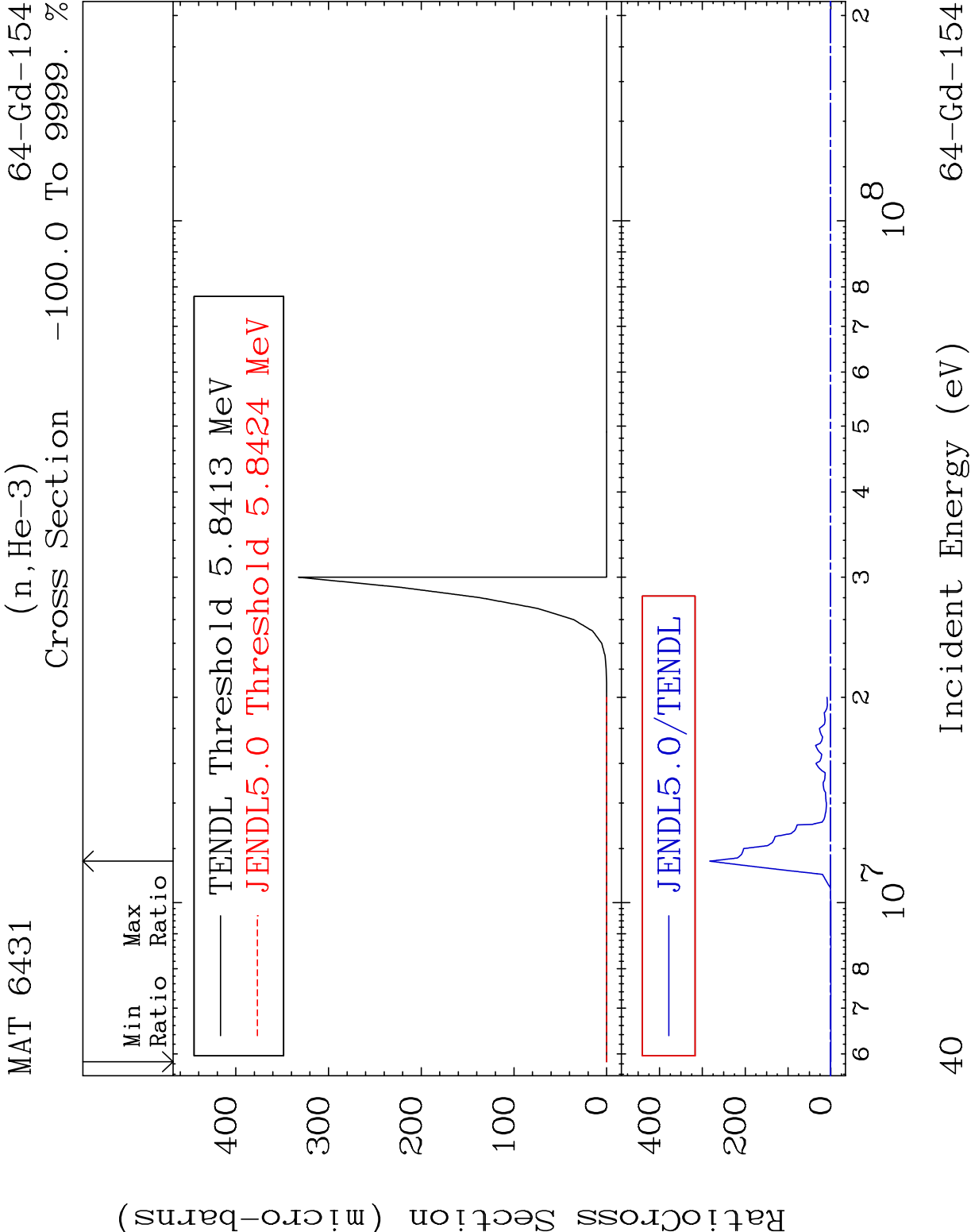
MAT 6431 Dpa elastic (mt2) 64-Gd-154
Cross Section -90.04 To 4606. %

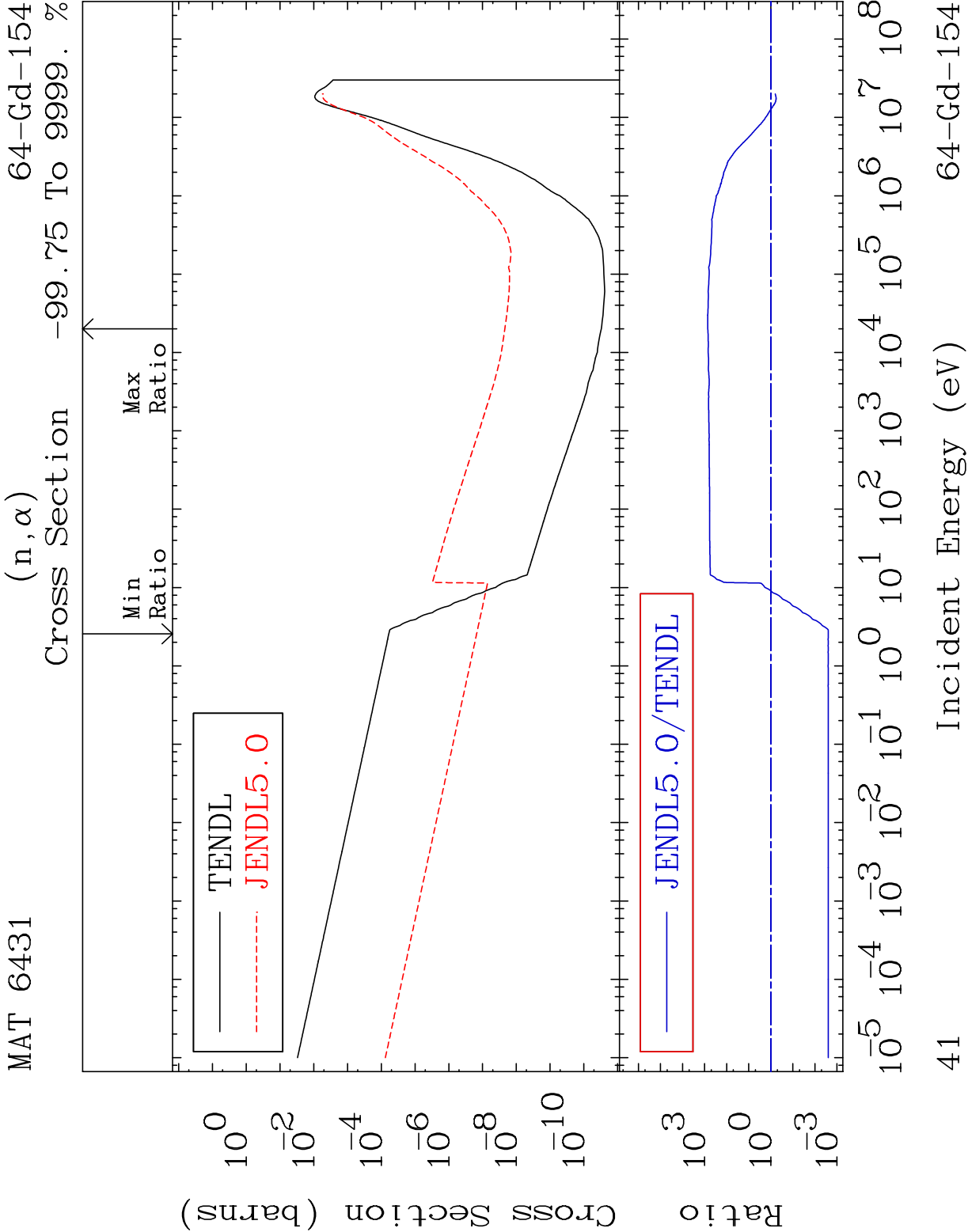


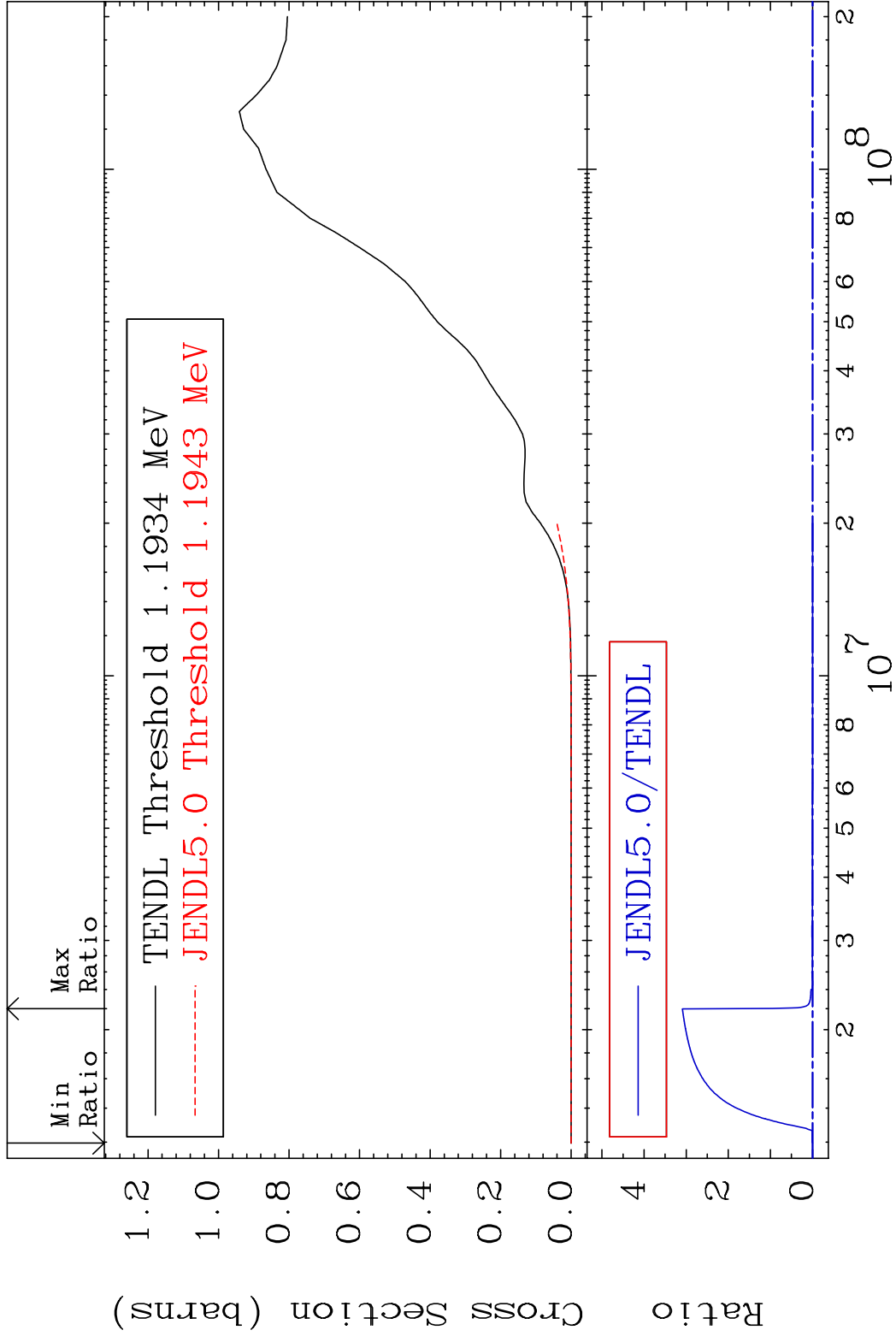


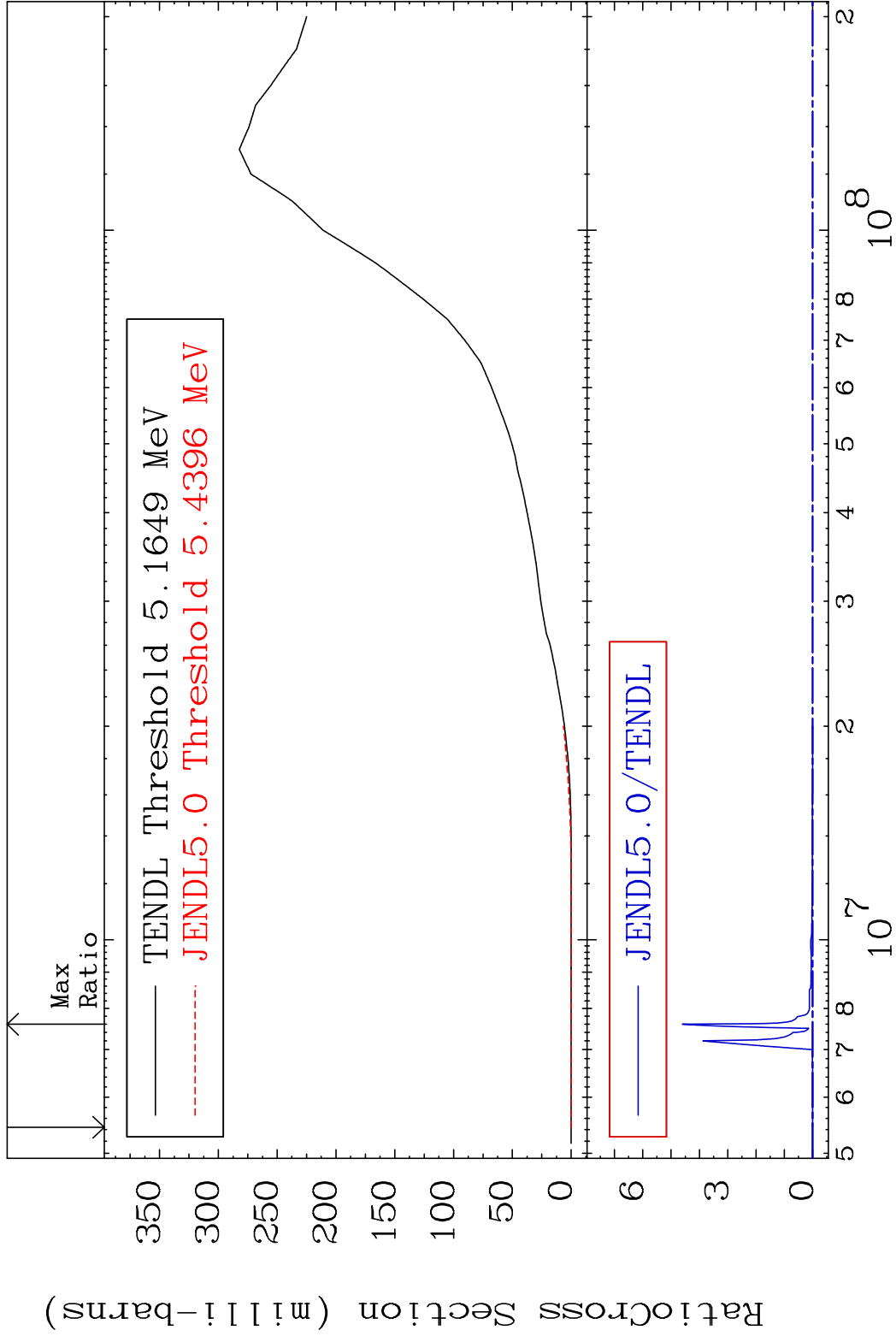
MAT 6431 Dpa disappearance (mt102 -120) 64-Gd-154
Cross Section -99.69 To 9999. %

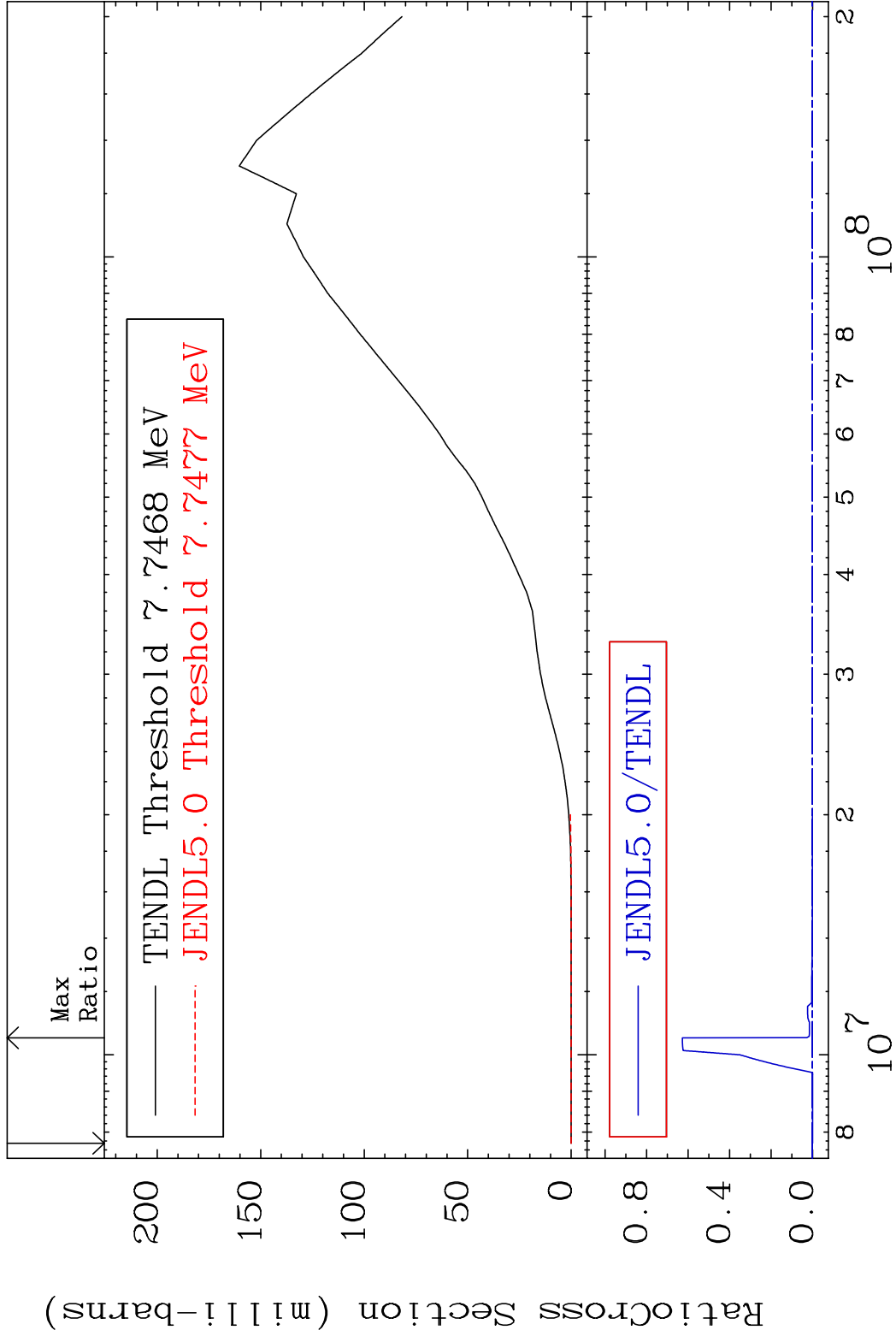


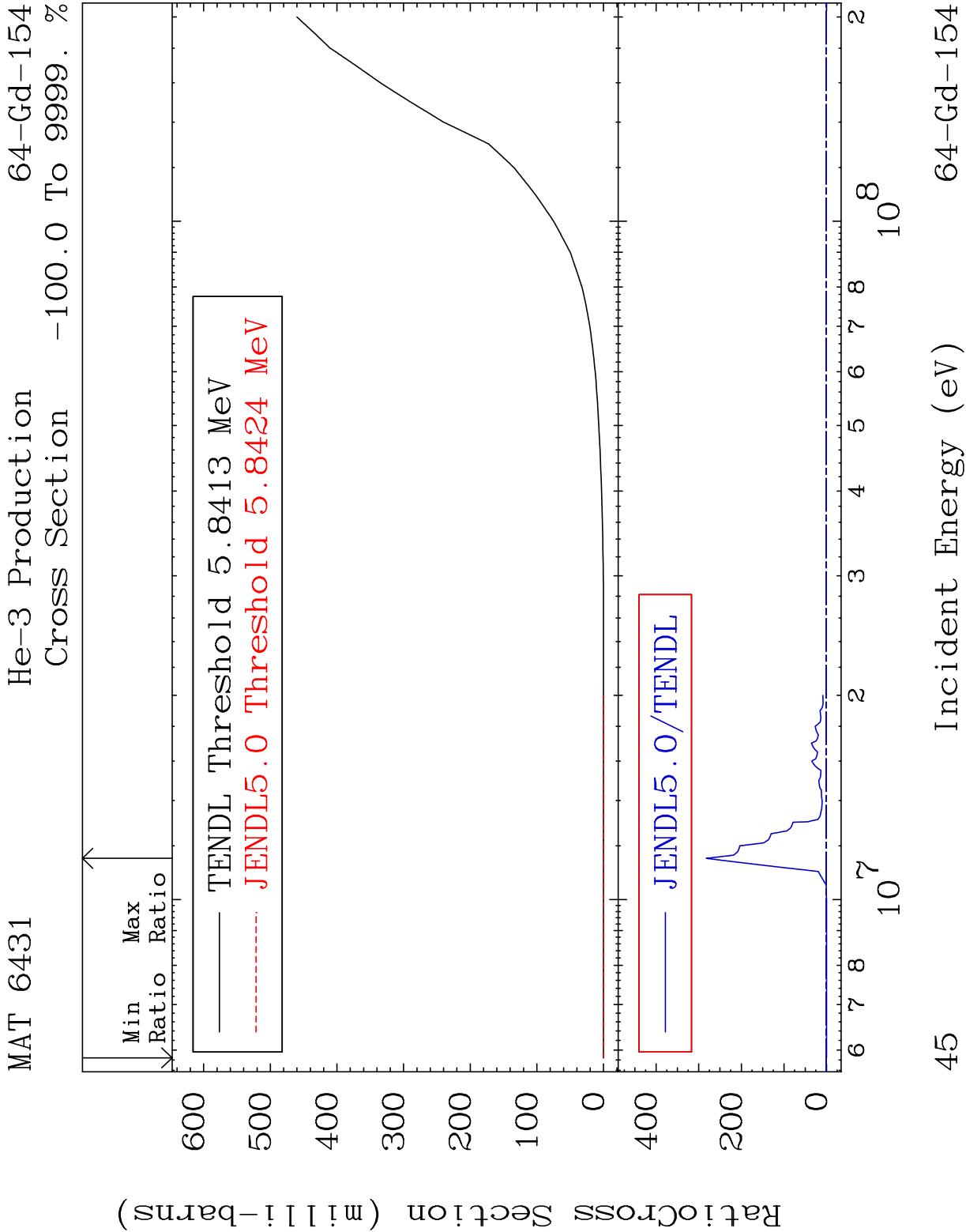


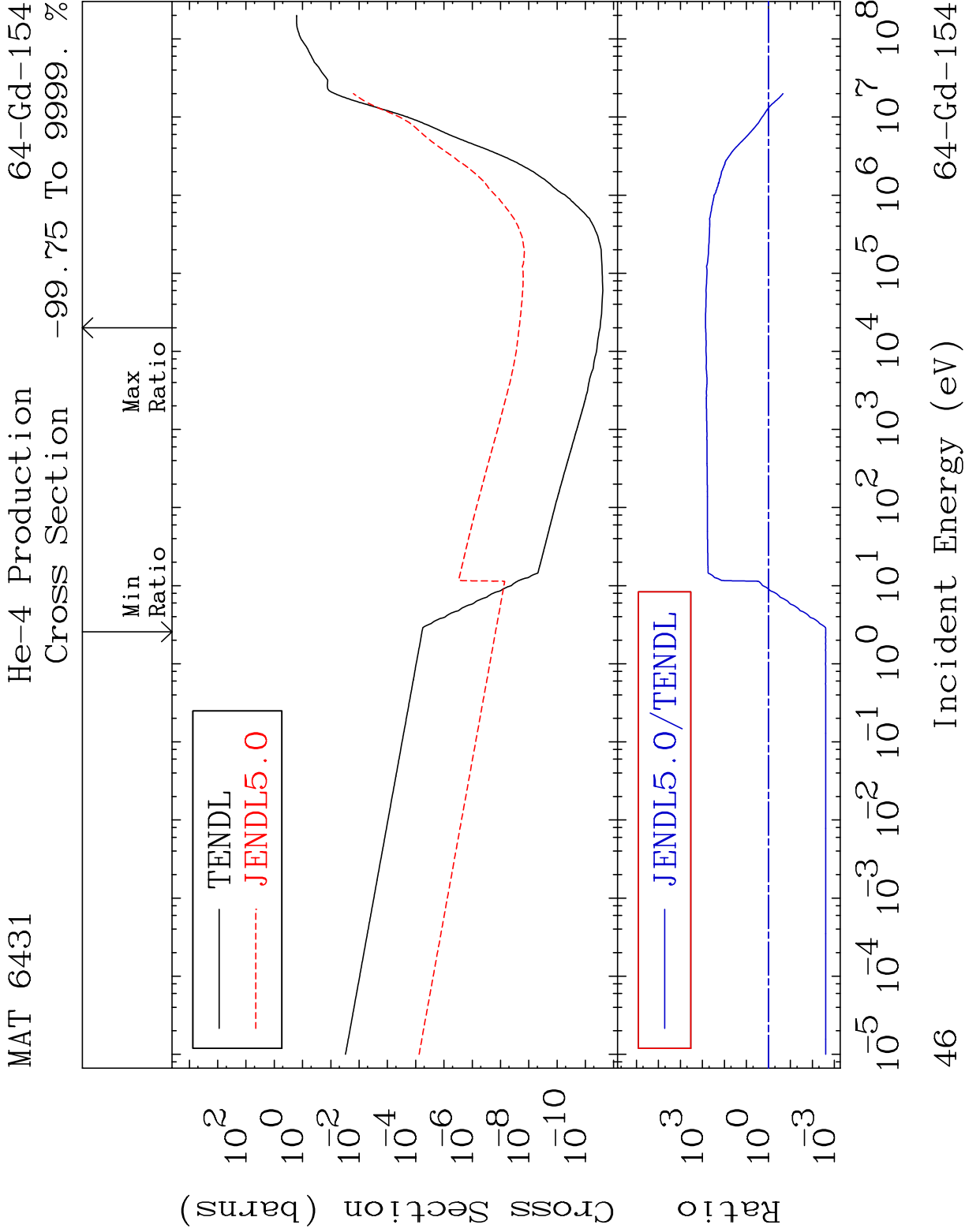




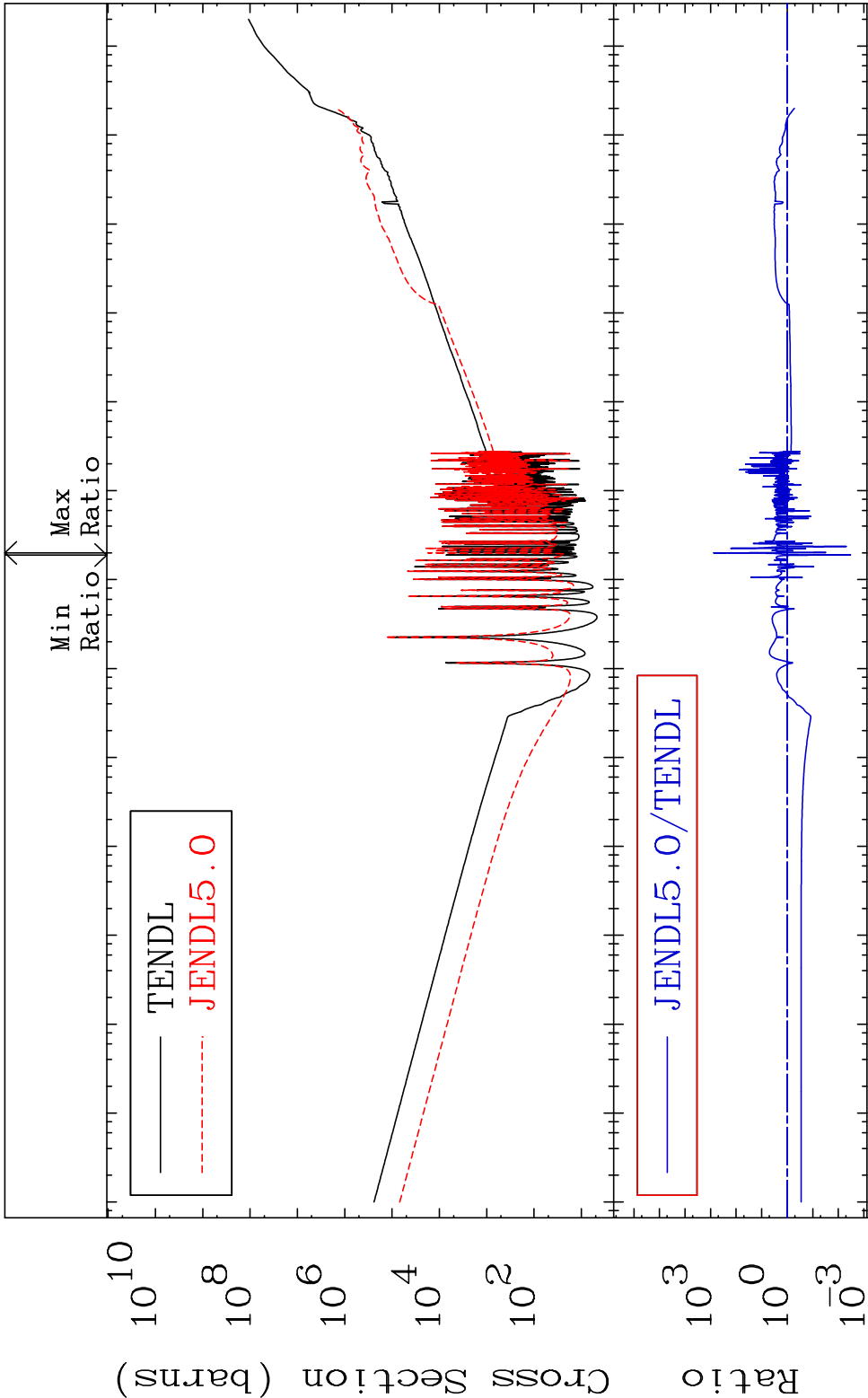






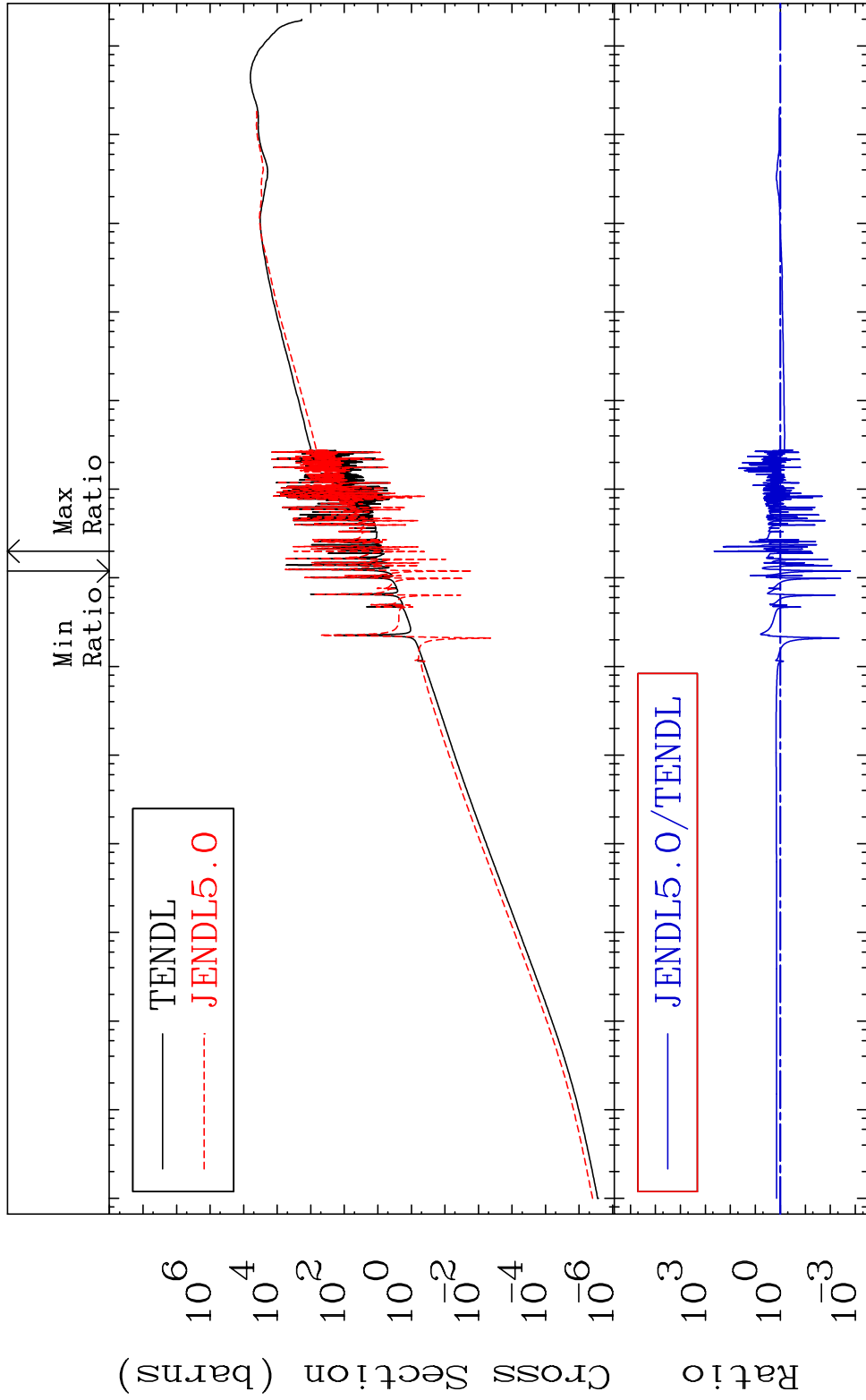


MAT 6431 Kerma total (eV-barns) 64-Gd-154
Cross Section -99.66 To 9999. %



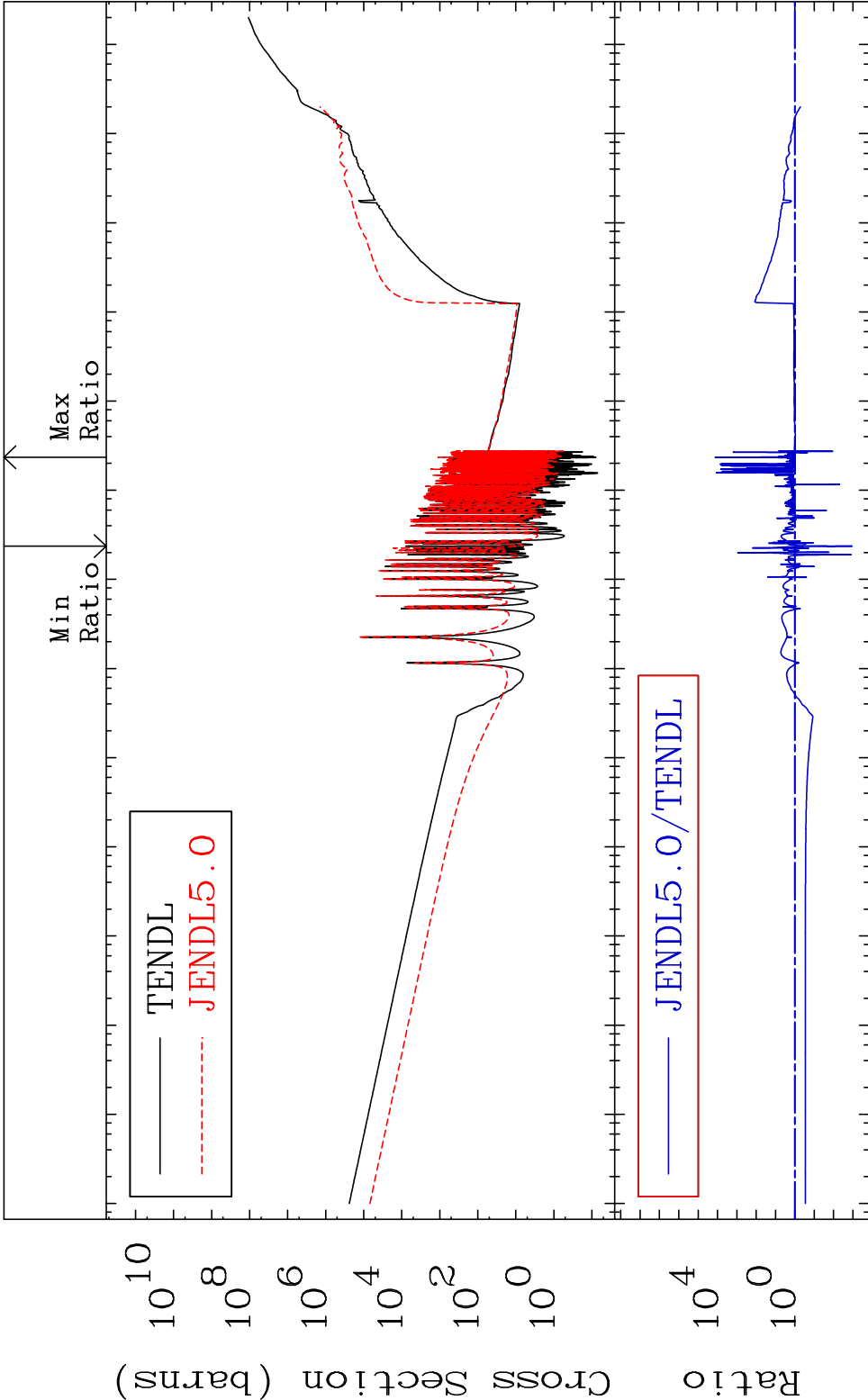
47 Incident Energy (eV) 64-Gd-154

MAT 6431 Kerma elastic 64-Gd-154
Cross Section -99.84 To 9999. %



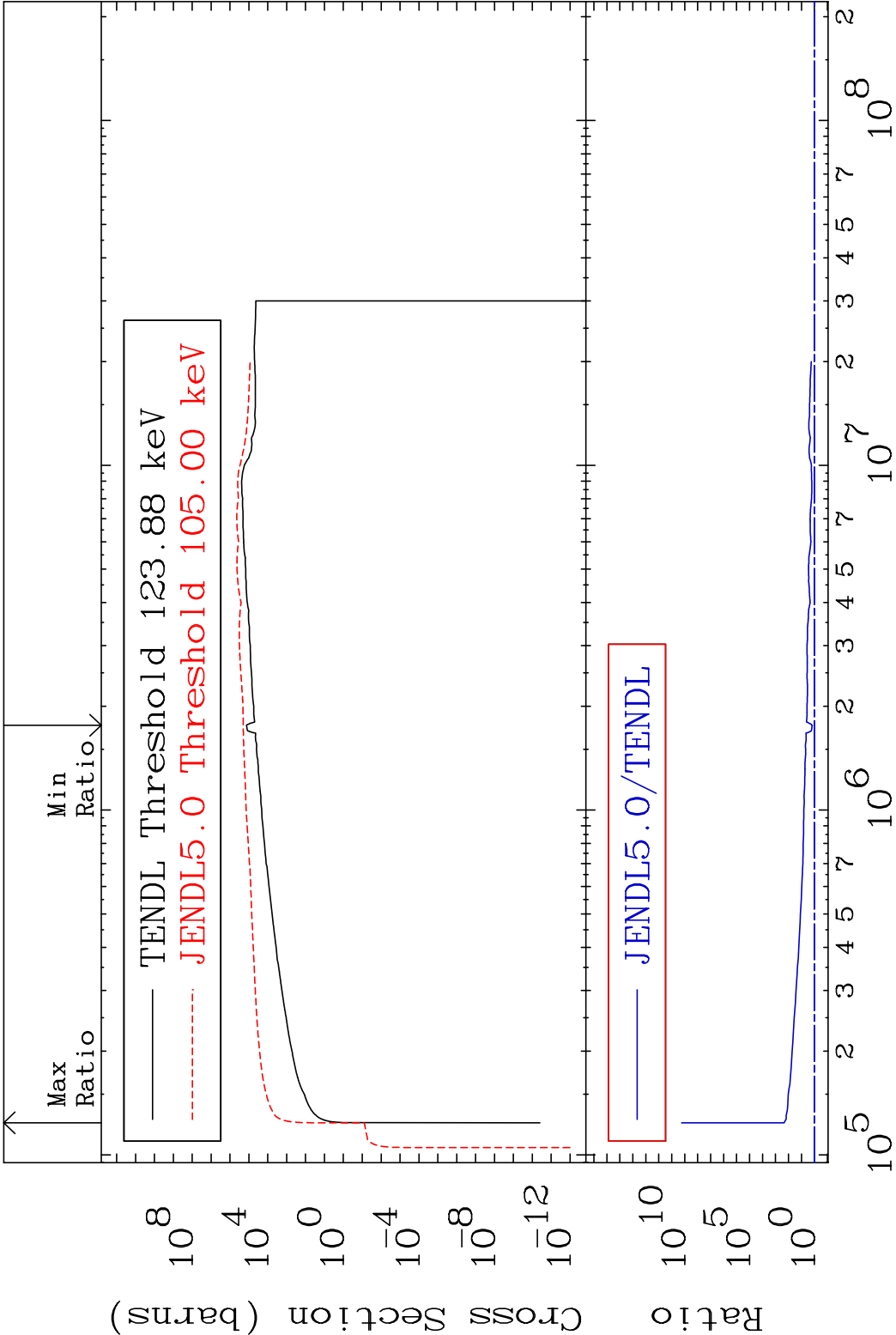
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

MAT 6431 Kerma non-elastic (all but mt2) 64-Gd-154
Cross Section -99.89 To 9999. %



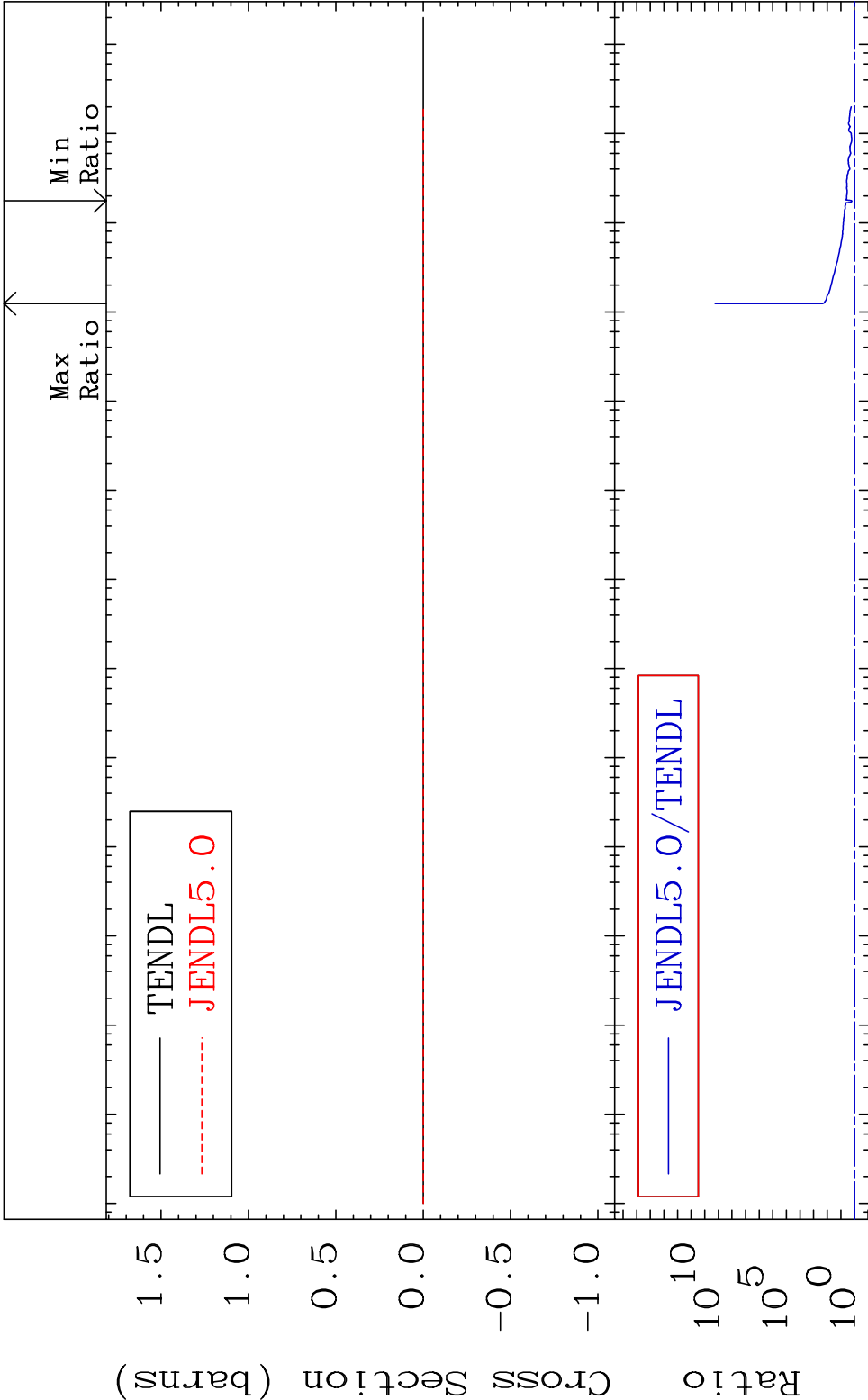
49 Incident Energy (eV) 64-Gd-154

MAT 6431 Kerma inelastic (mt51-91) 64-Gd-154
Cross Section 47.40 To 9999. %

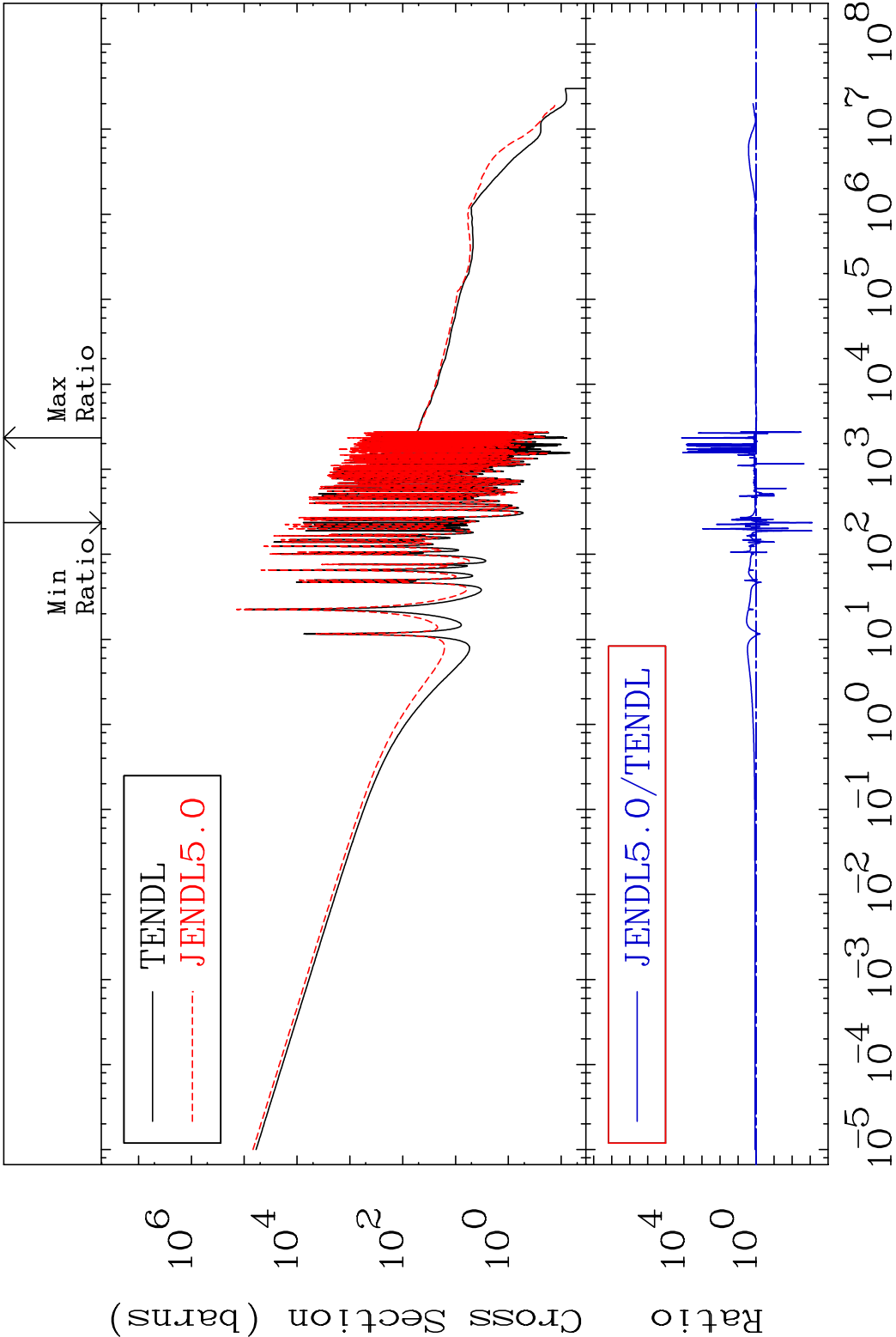


50 Incident Energy (eV) 64-Gd-154

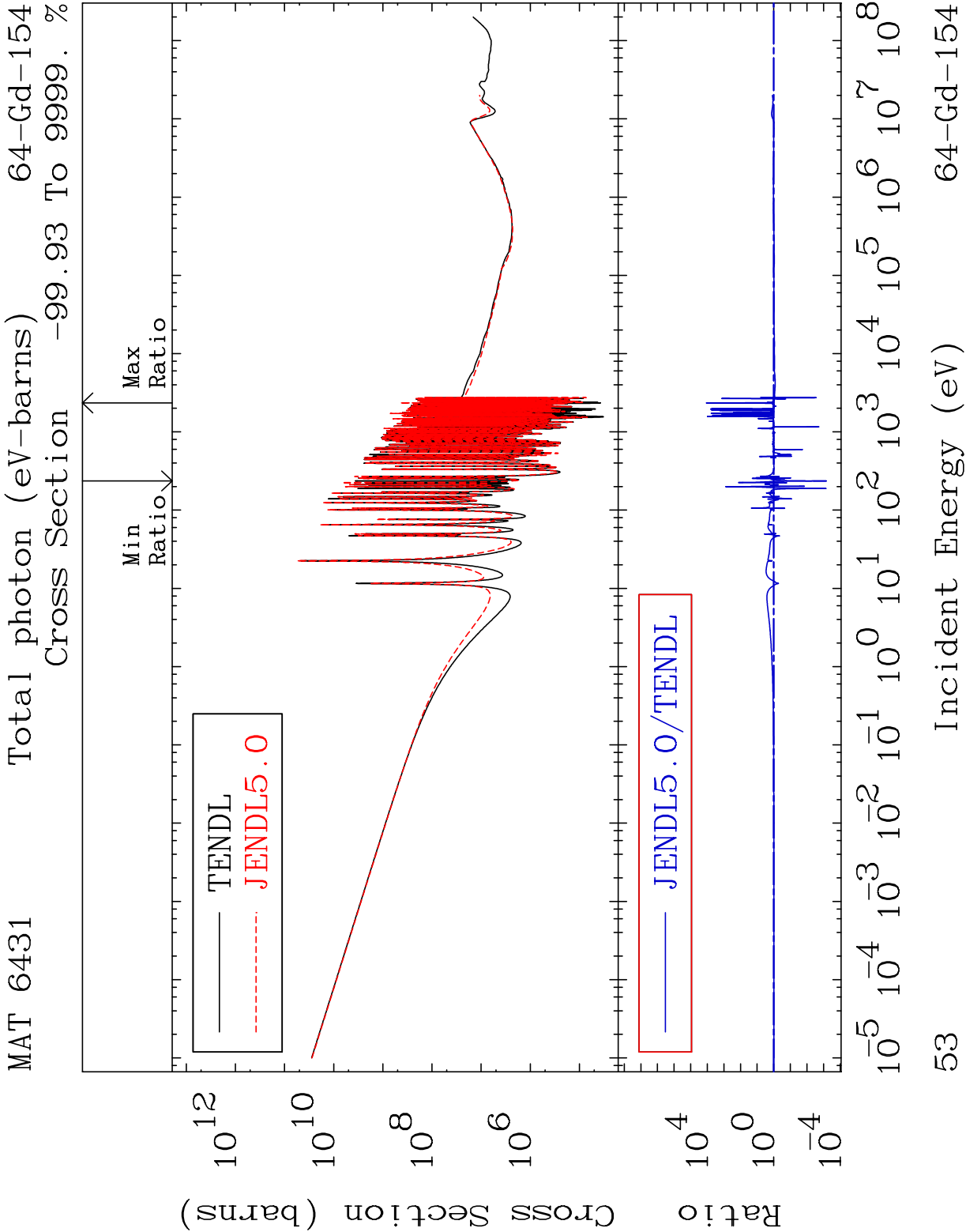
MAT 6431 Kerma fission (mt18 or mt19-20-21-38)64-Gd-154
Cross Section 47.40 To 9999. %



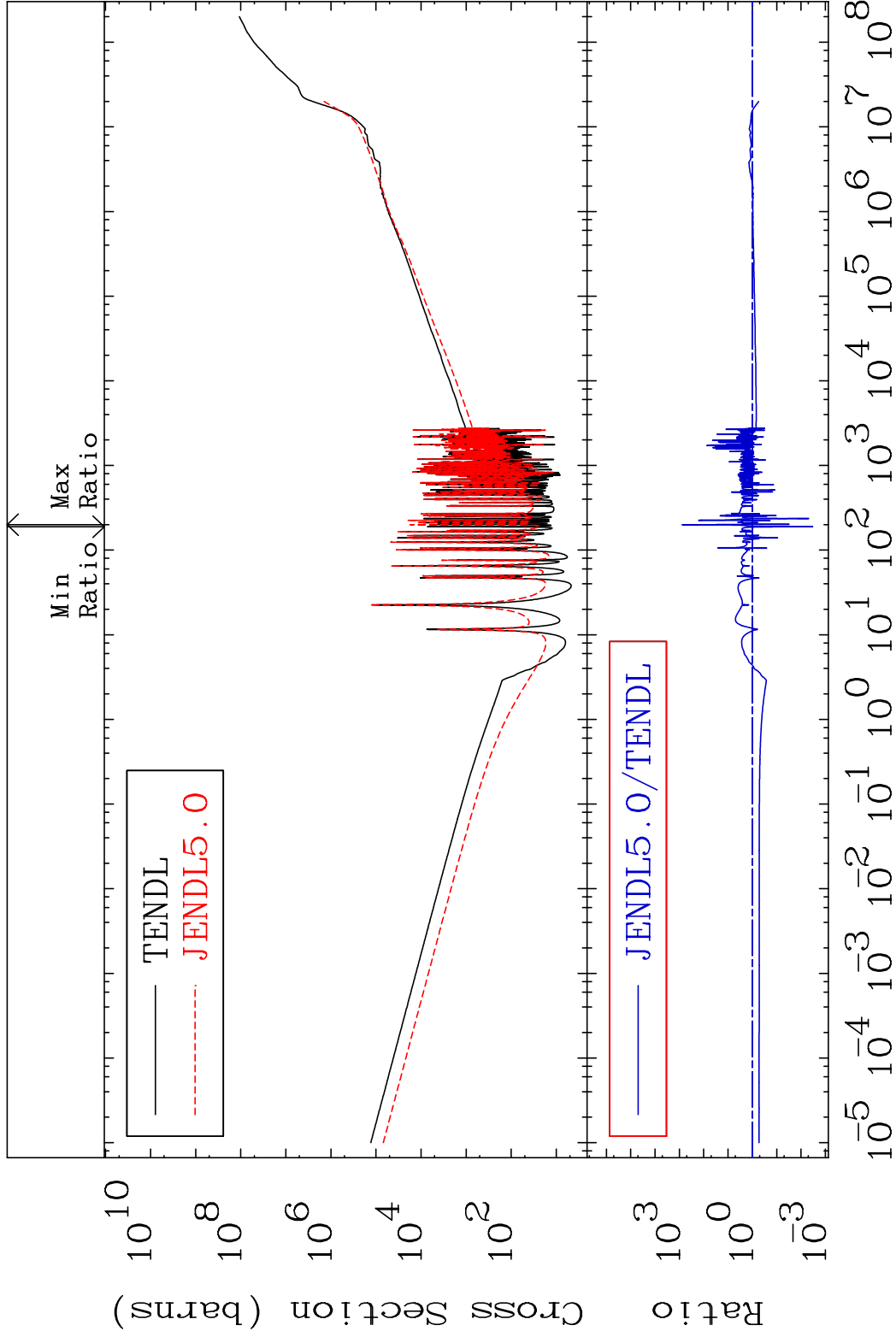
MAT 6431 Kerma capture (mt102) 64-Gd-154
Cross Section -99.92 To 9999. %



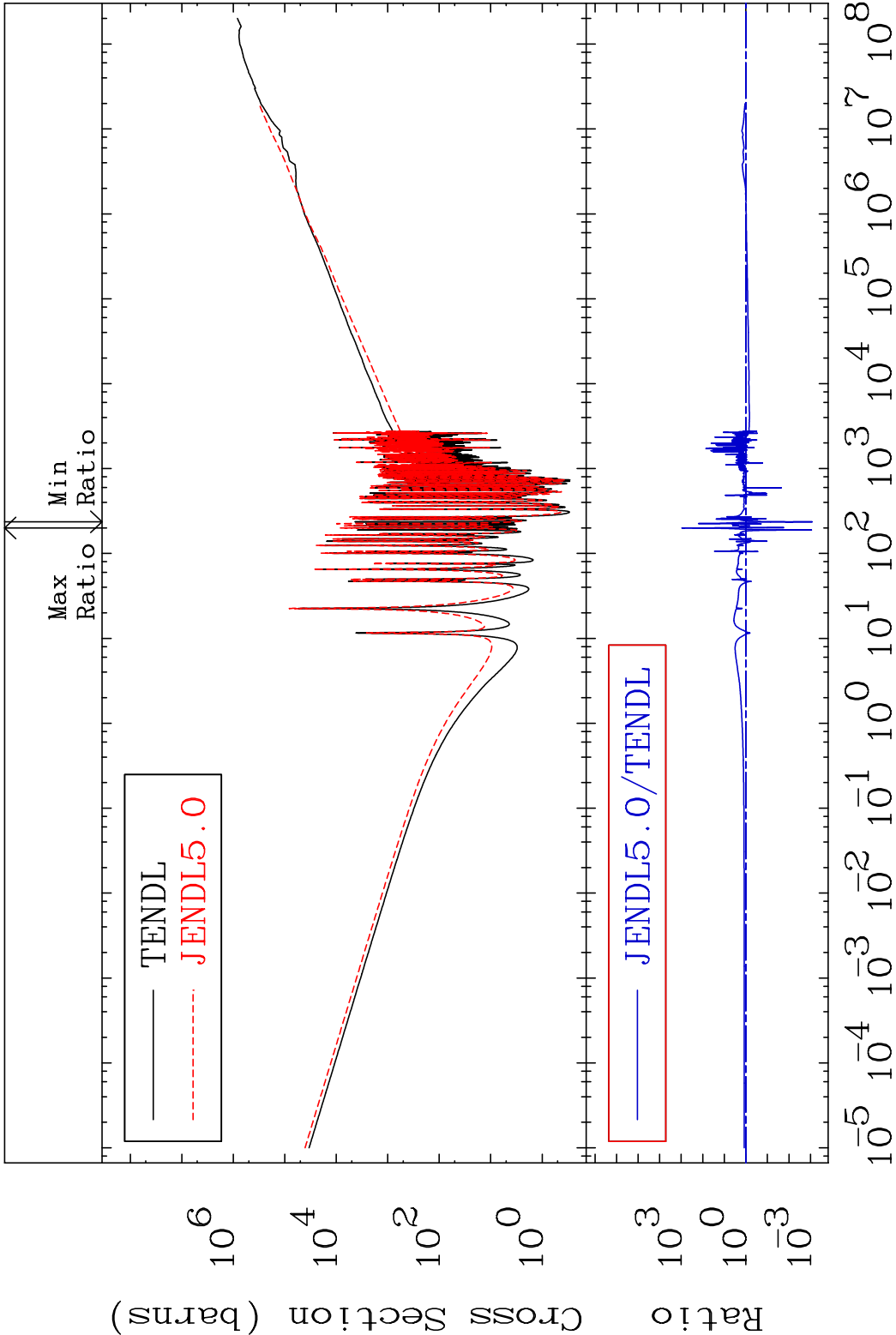
52 Incident Energy (eV) 64-Gd-154



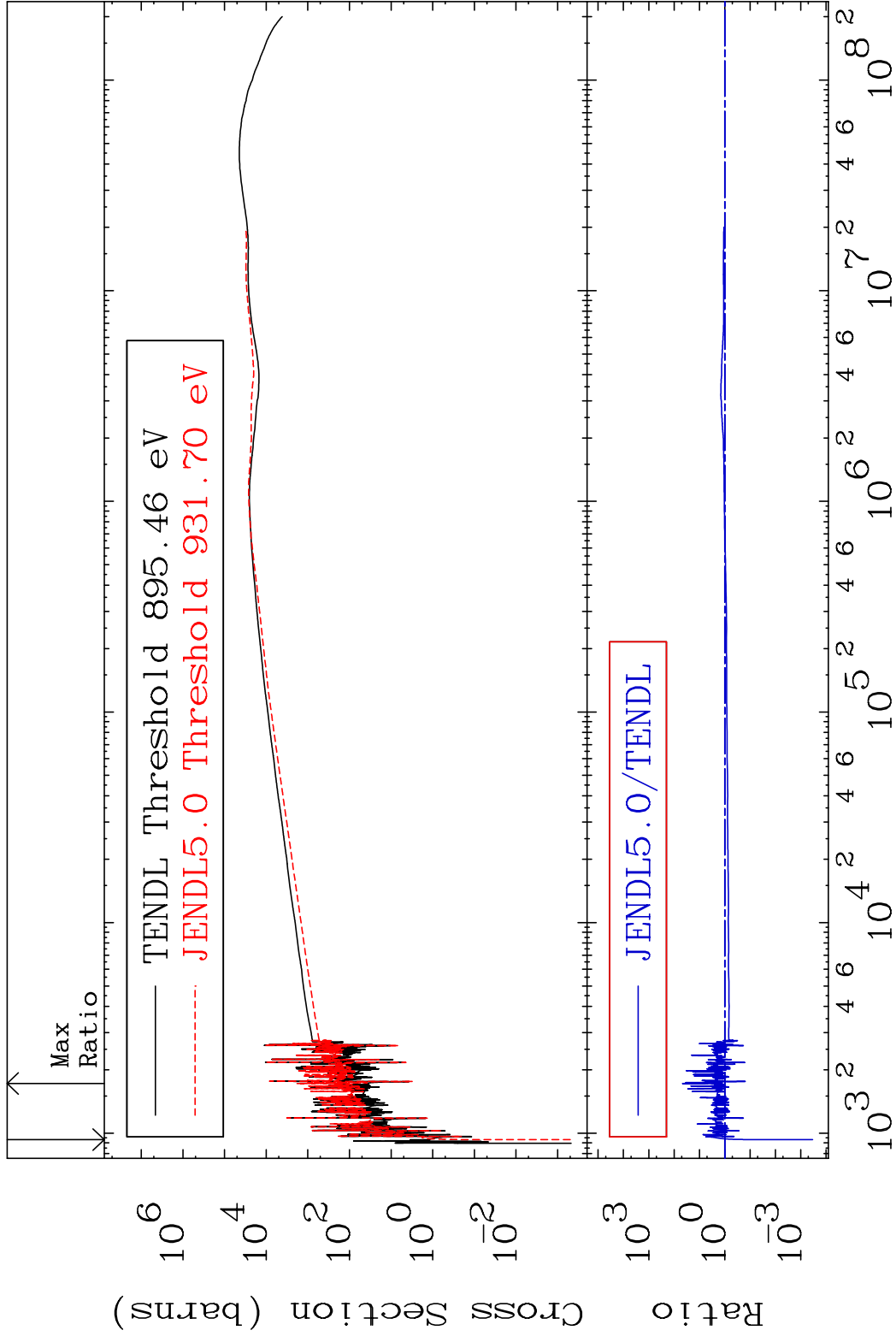
MAT 6431 Total kinematic kerma (high limit) 64-Gd-154
Cross Section -99.66 To 9999. %

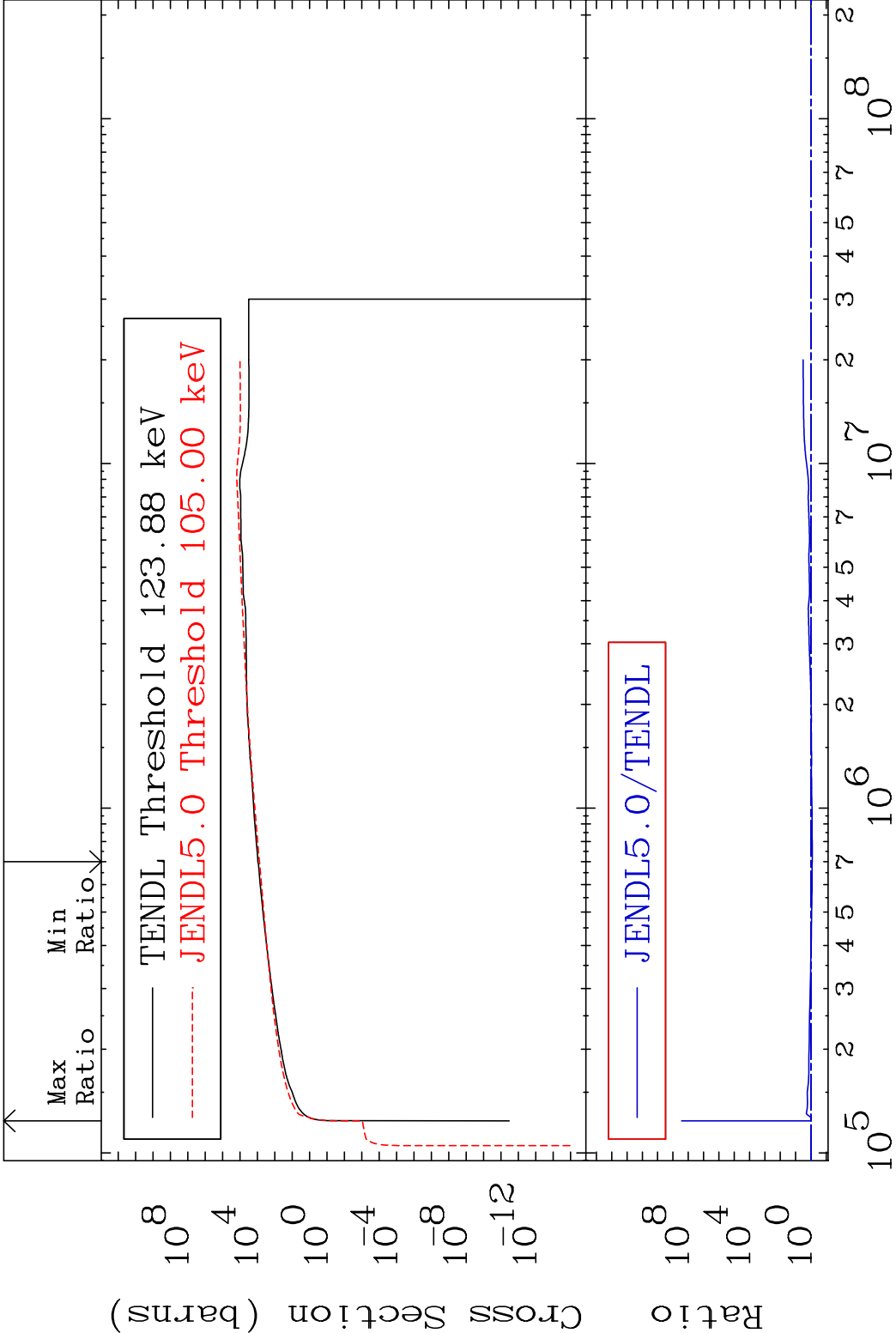


MAT 6431 Dpa total (eV-barns) 64-Gd-154
Cross Section -99.92 To 9999. %

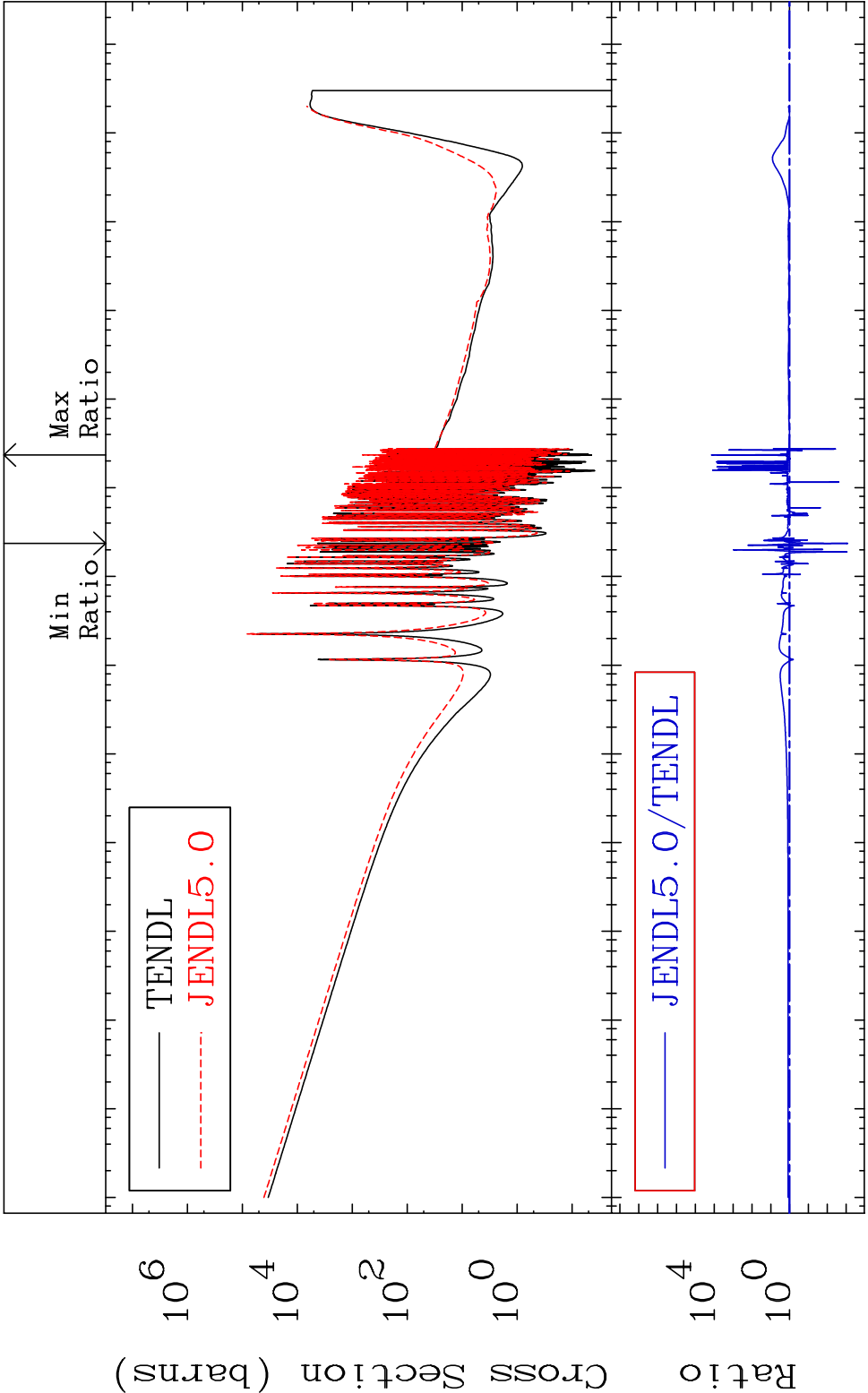


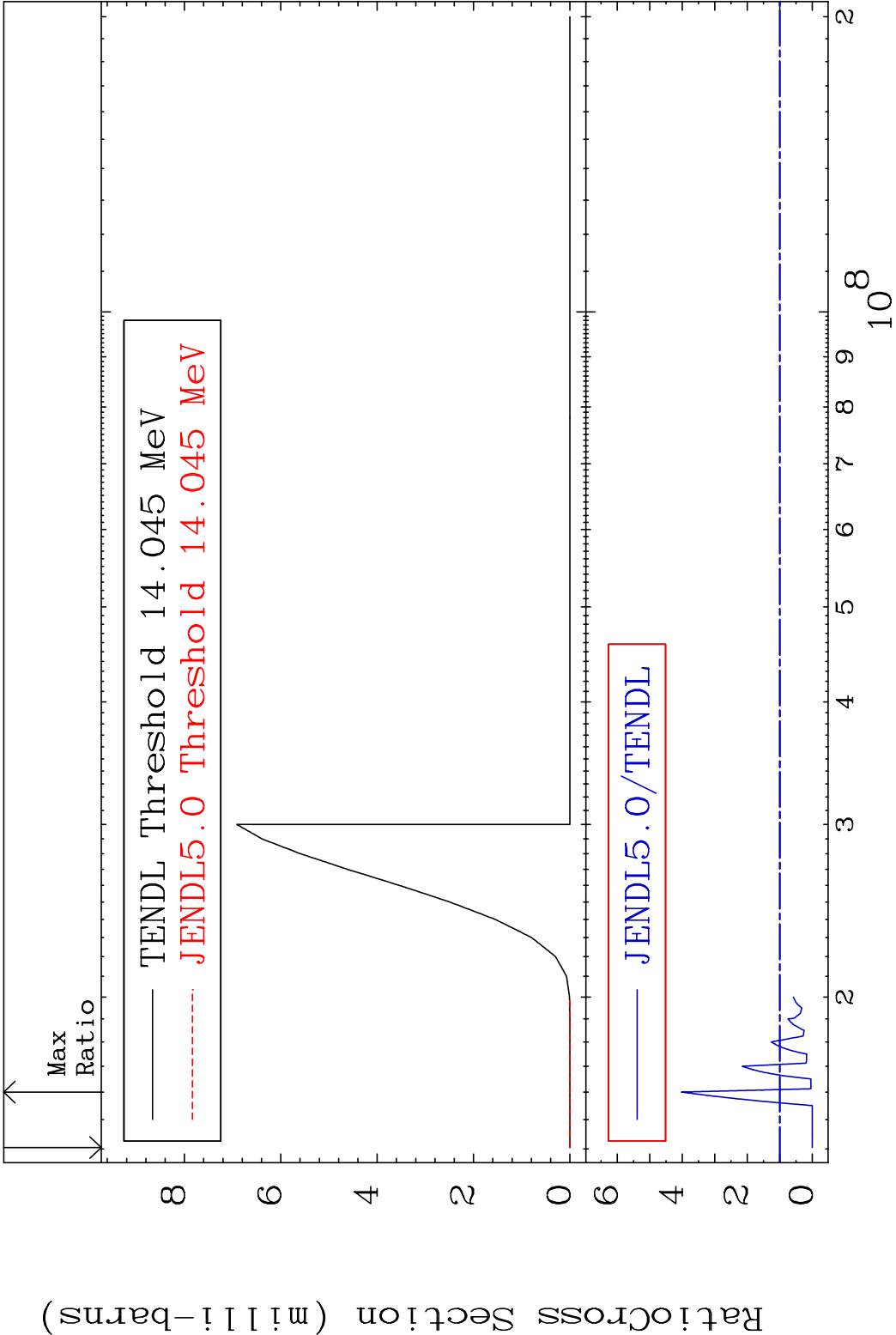
MAT 6431 Dpa elastic (mt2) 64-Gd-154
Cross Section -99.97 To 4608. %

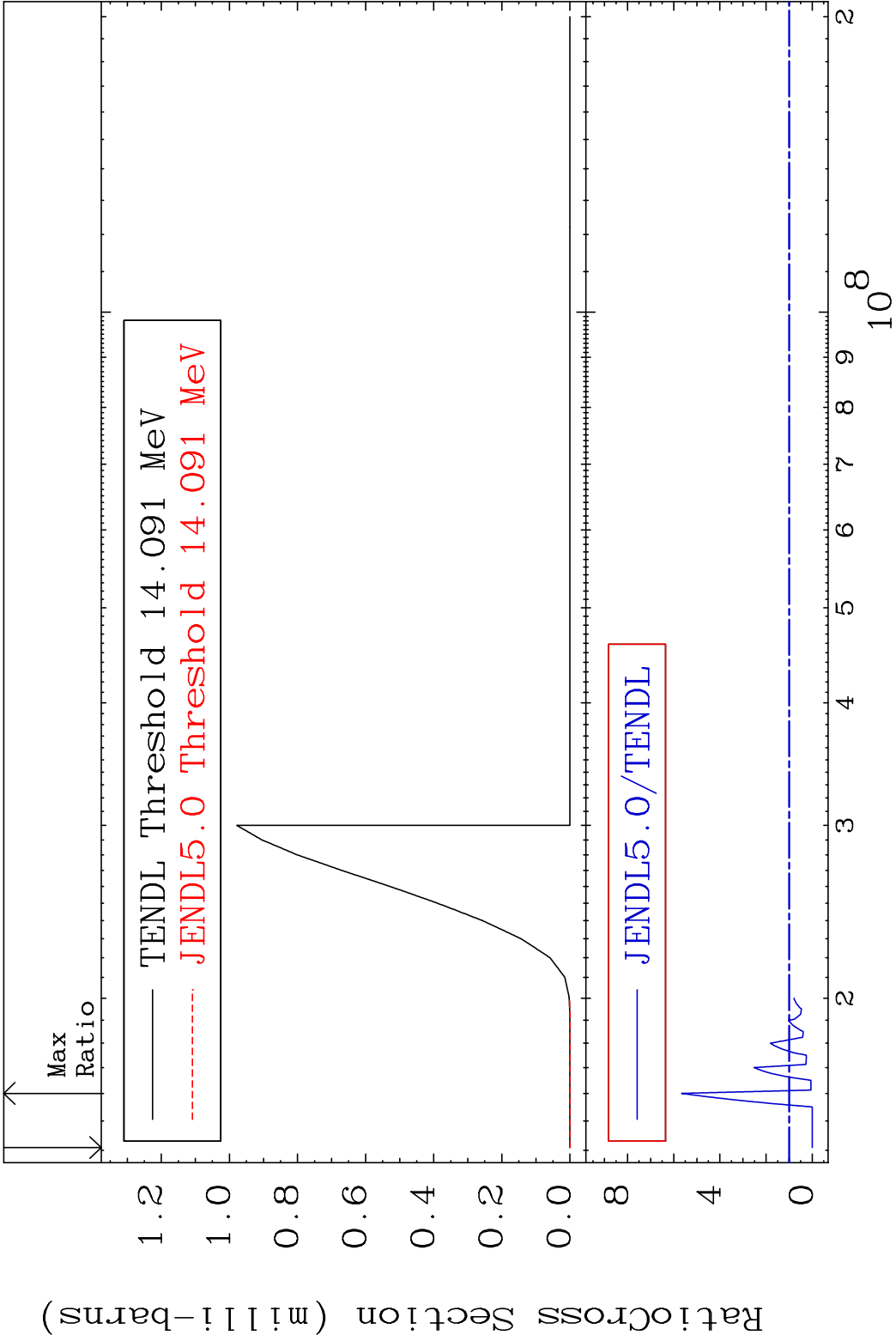


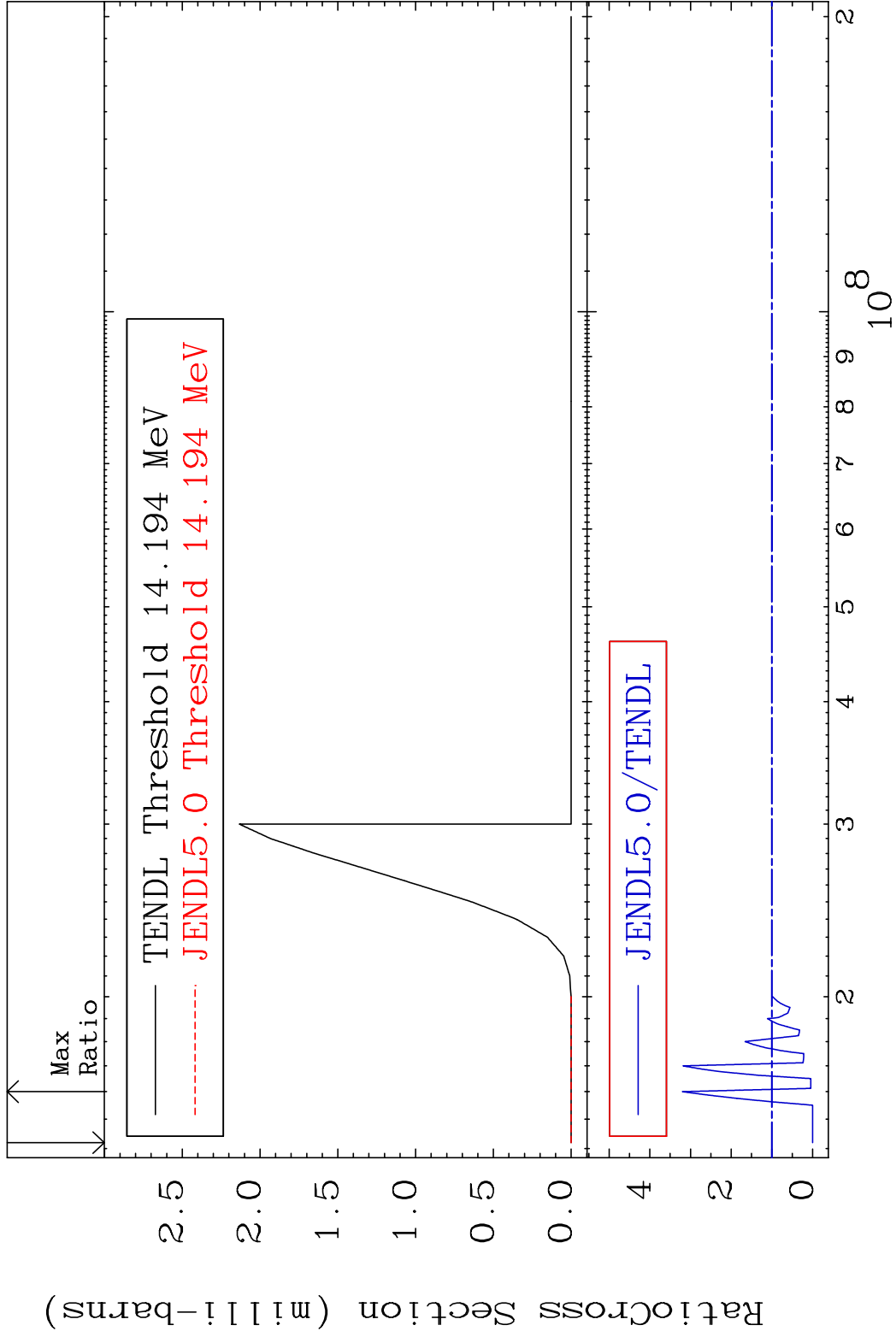


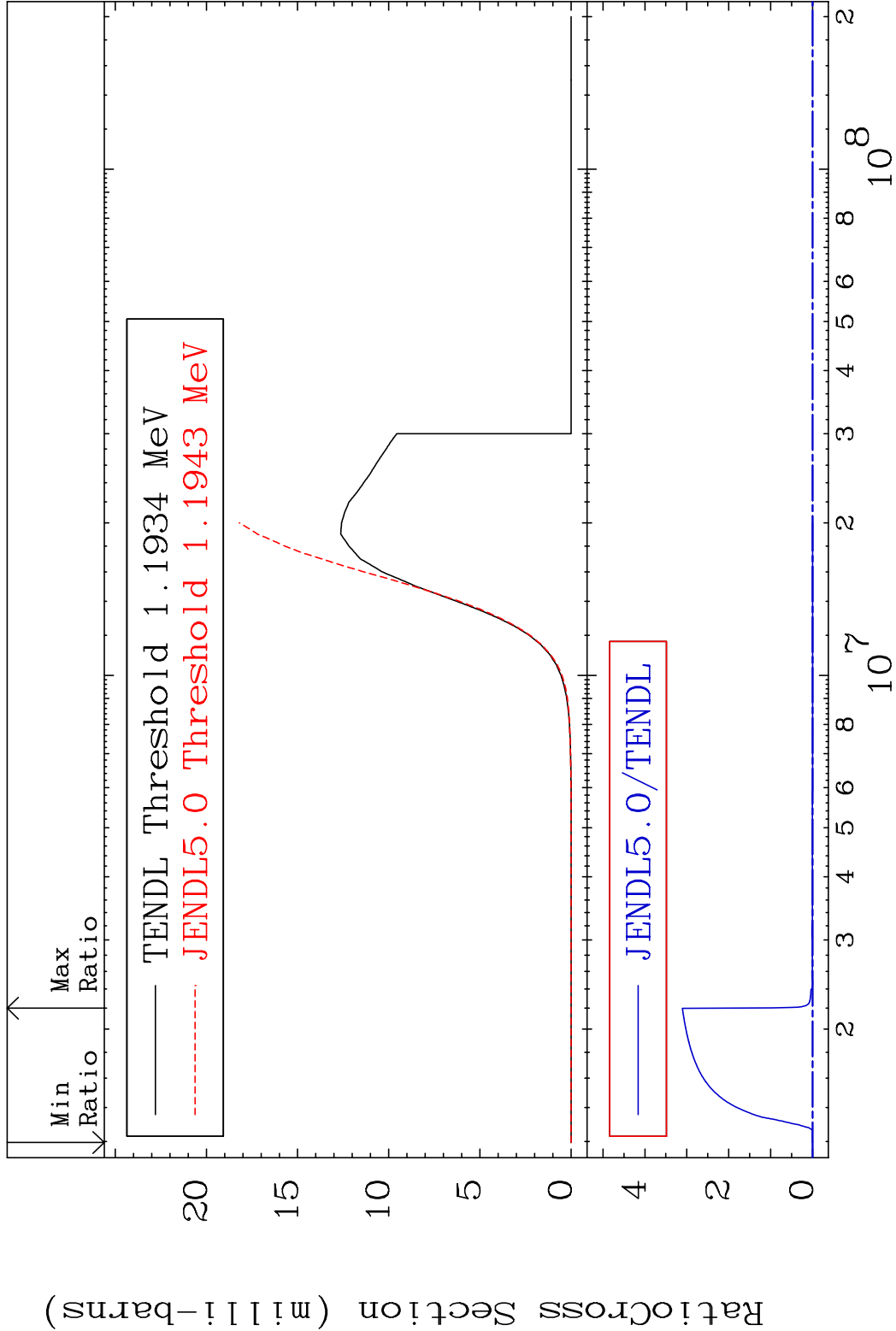
MAT 6431 Dpa disappearance (mt102 -120) 64-Gd-154
Cross Section -99.92 To 9999. %

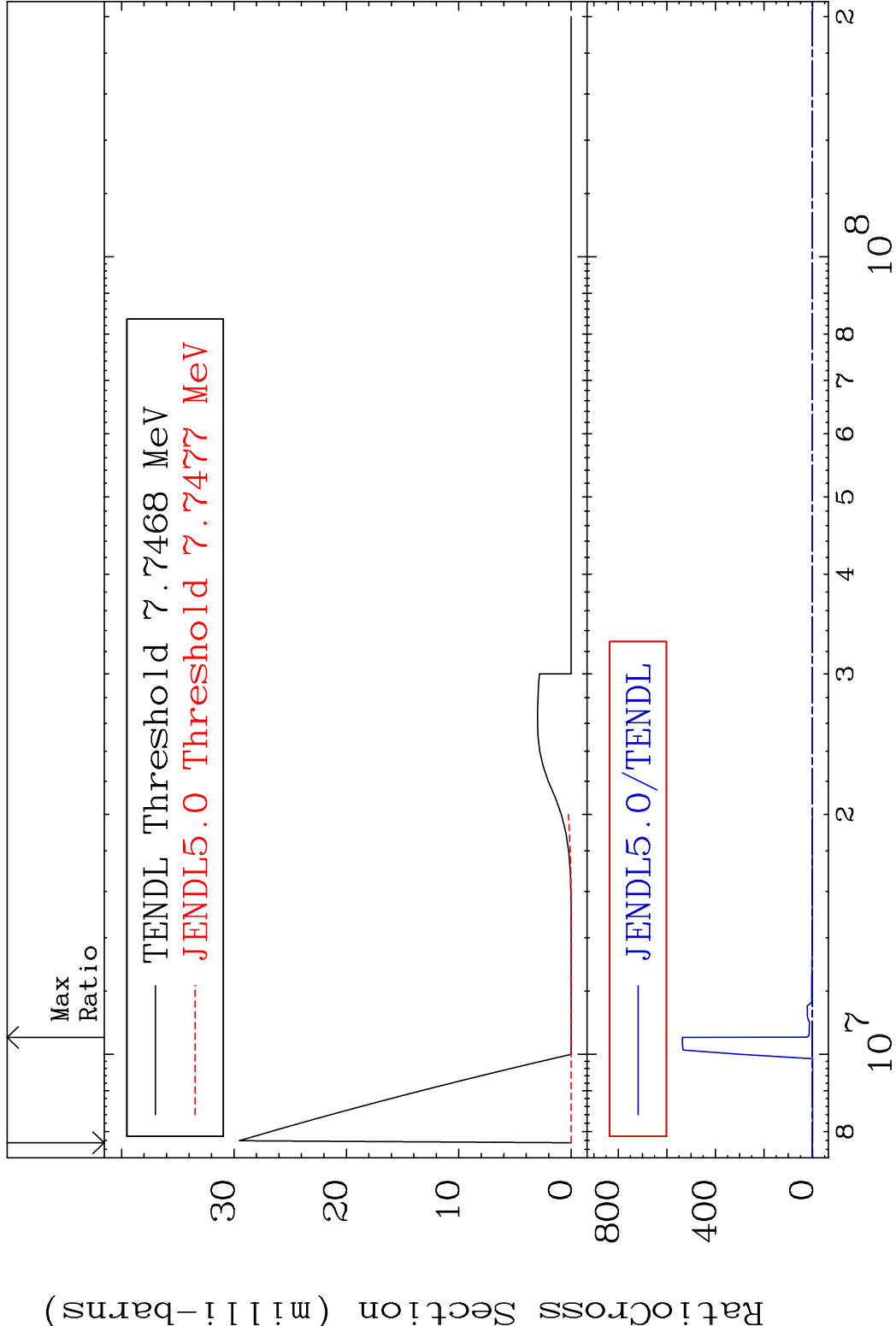


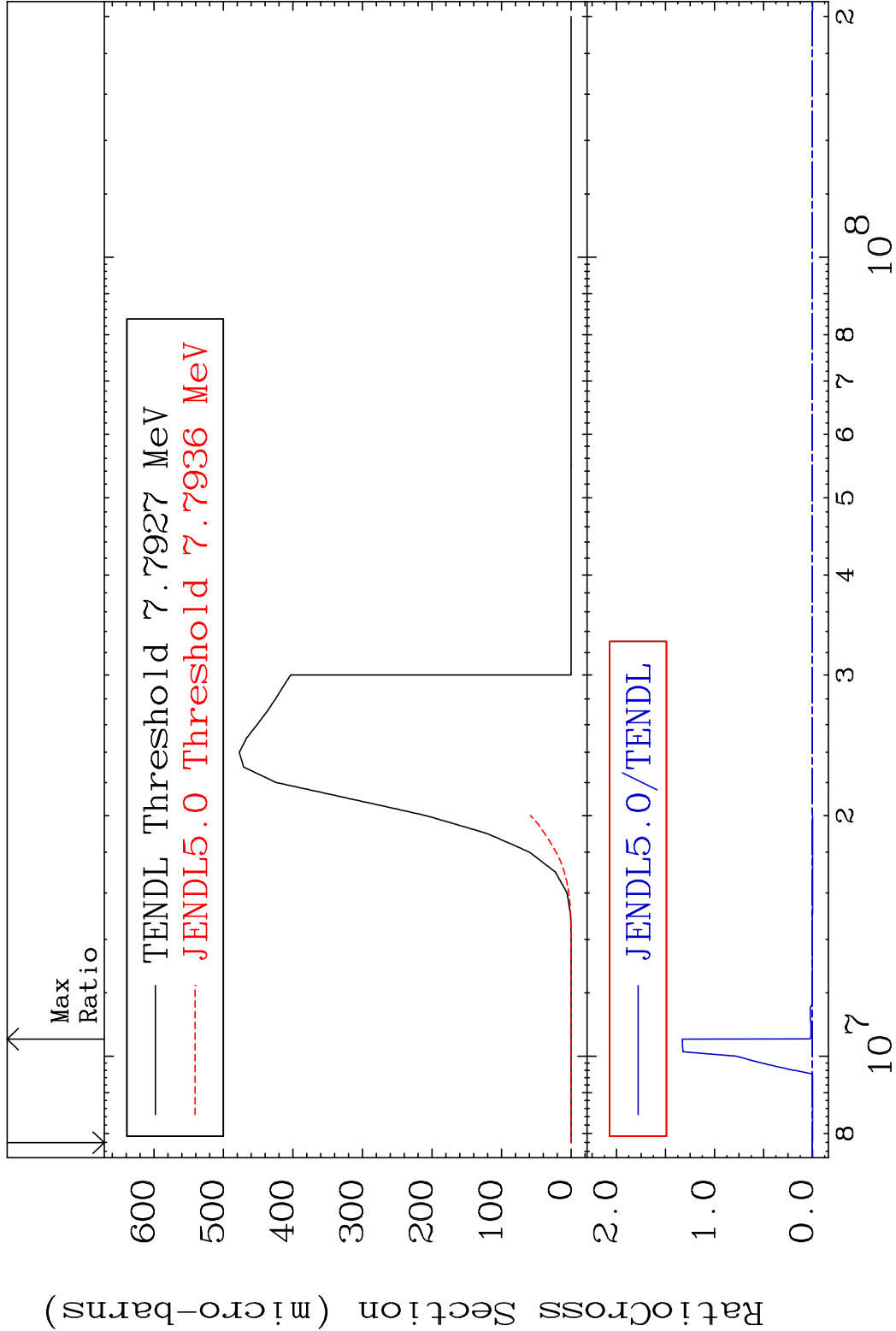


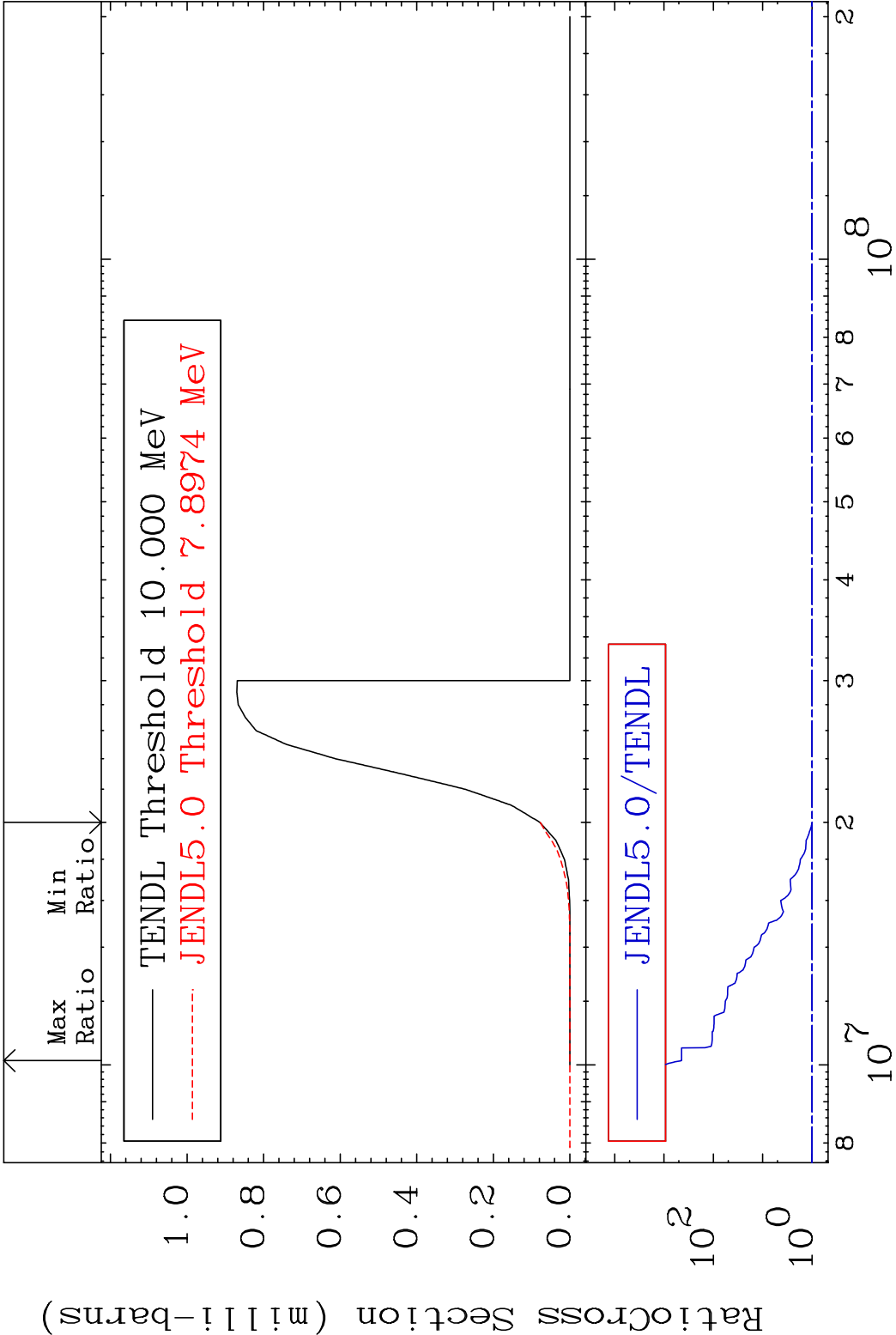


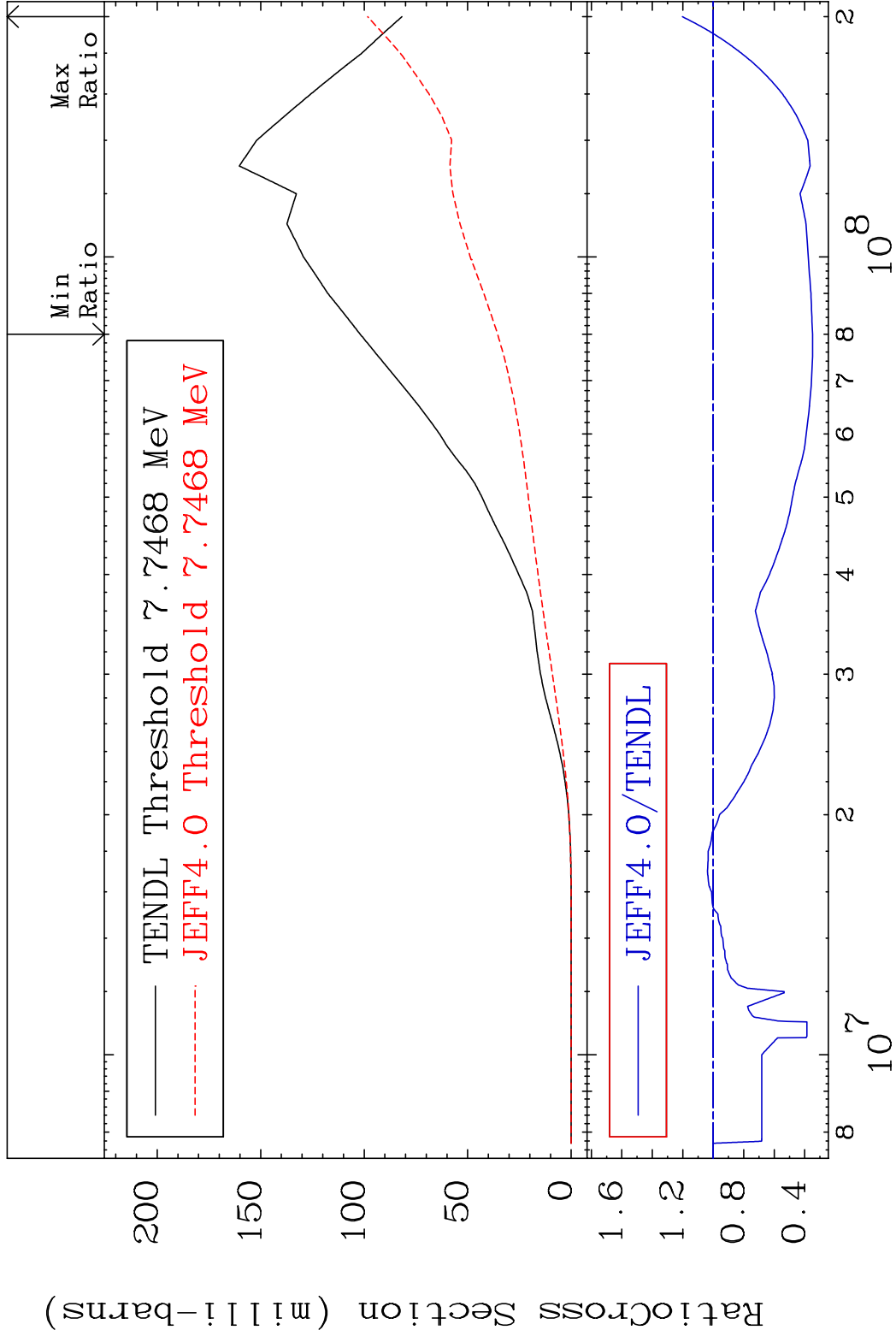


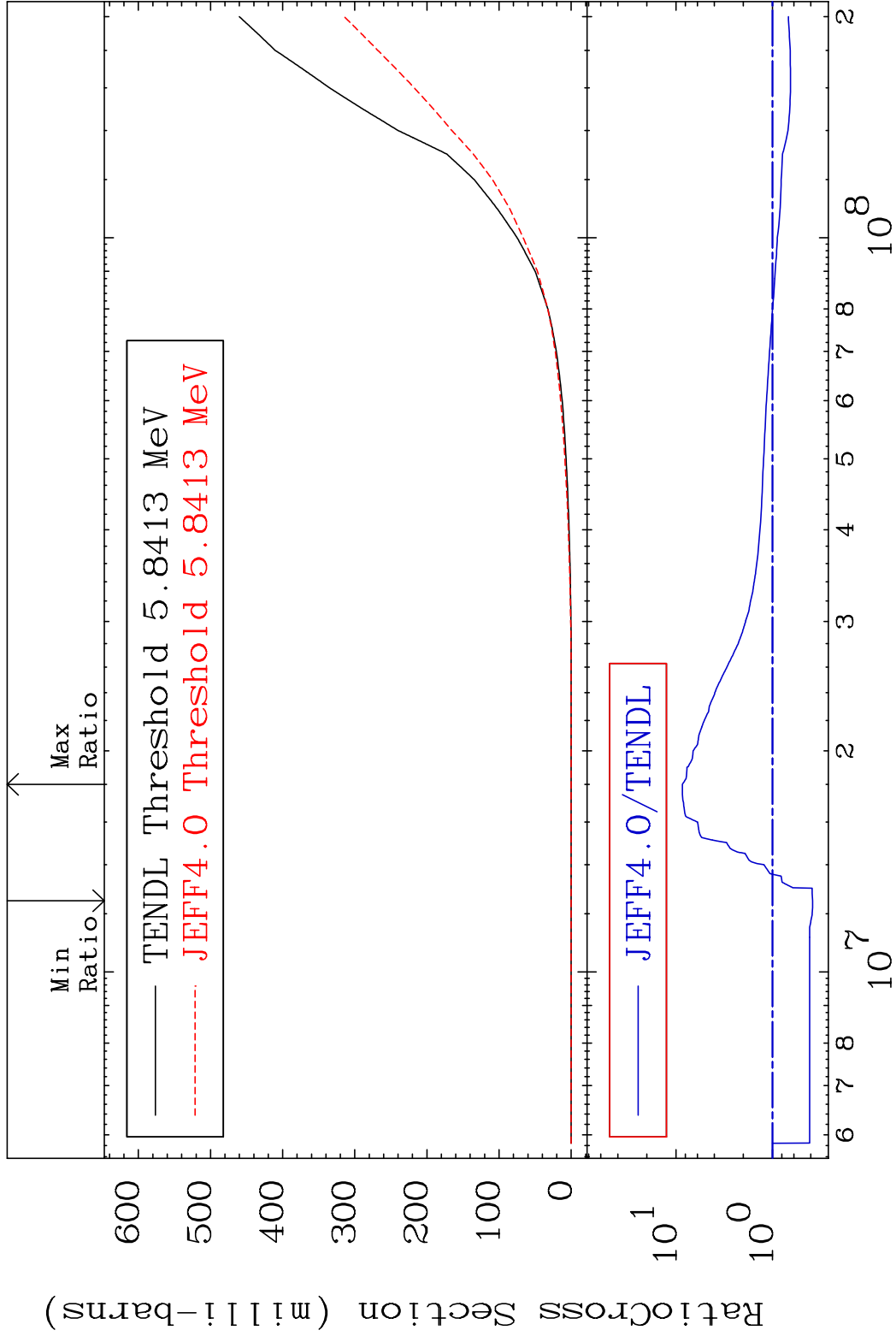












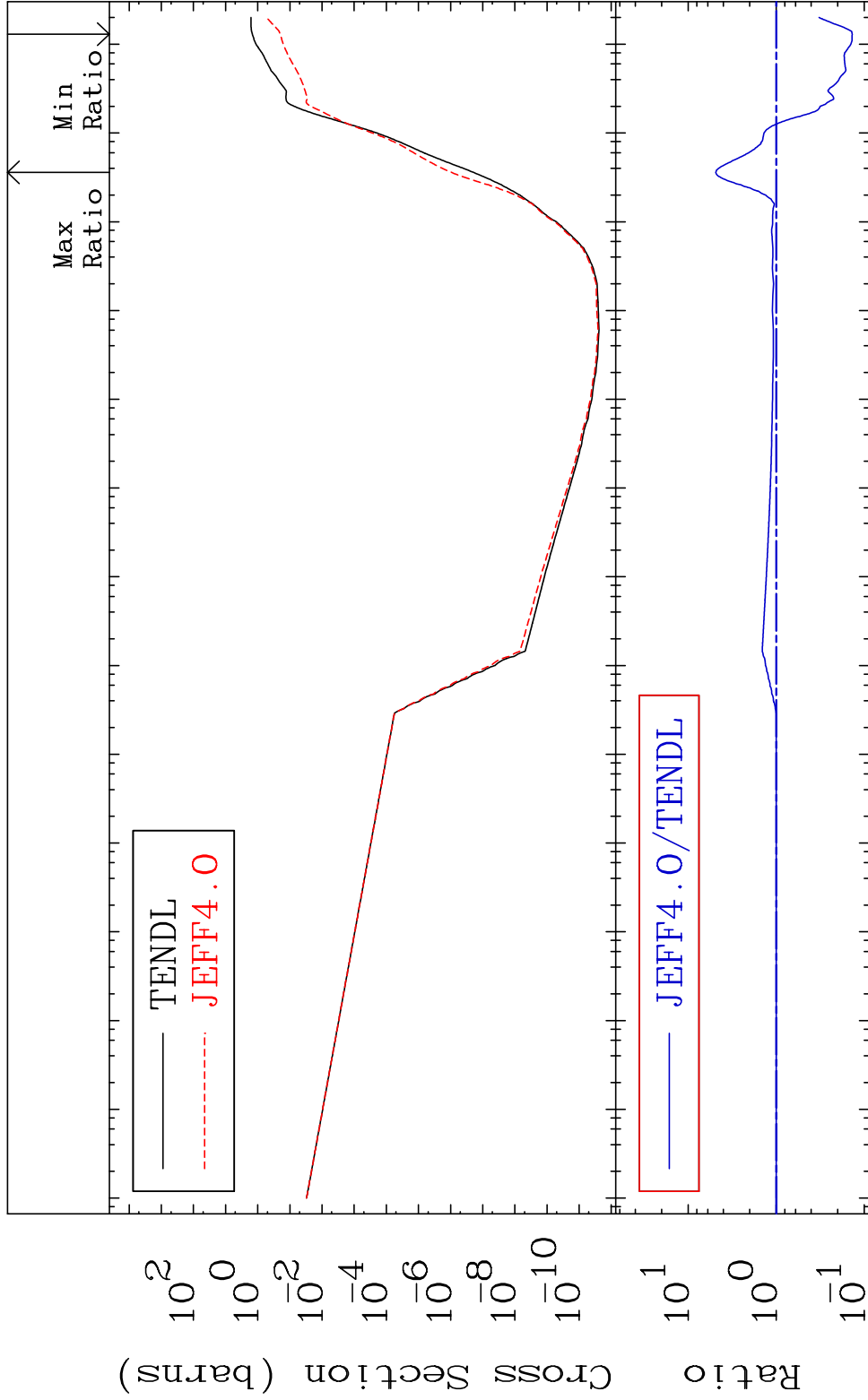
MAT 6431

He-4 Production

64-Gd-154

Cross Section

-86.33 To 387.7 %

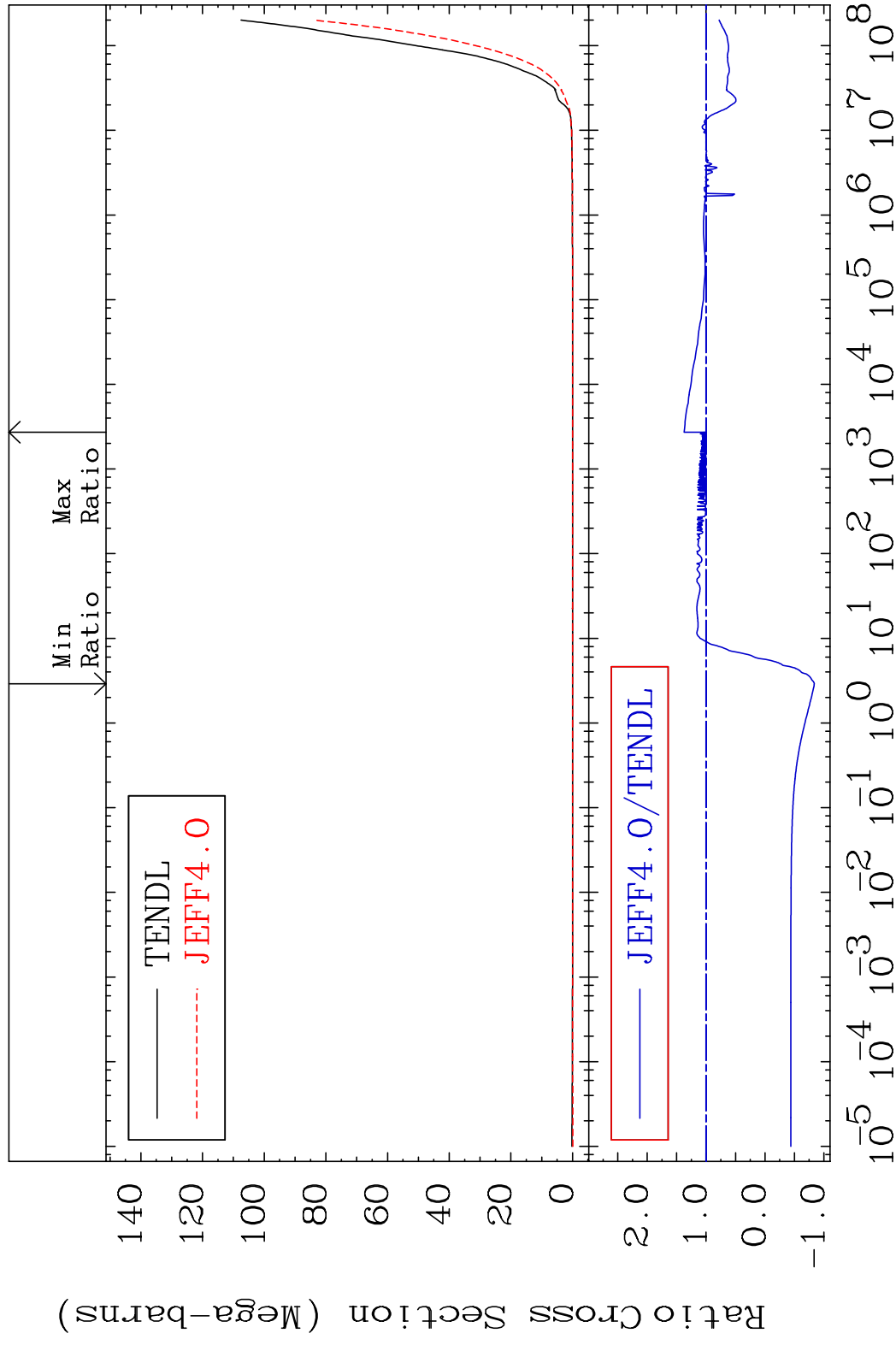


MAT 6431

Kerma total	(eV-barns)
64-Gd-154	

64-Gd-154

Cross Section -183.7 To 37.44 %



Min	Max
Ratio	Ratio

TENDL

JEFF4.0

JEFF4.0/TENDL

99

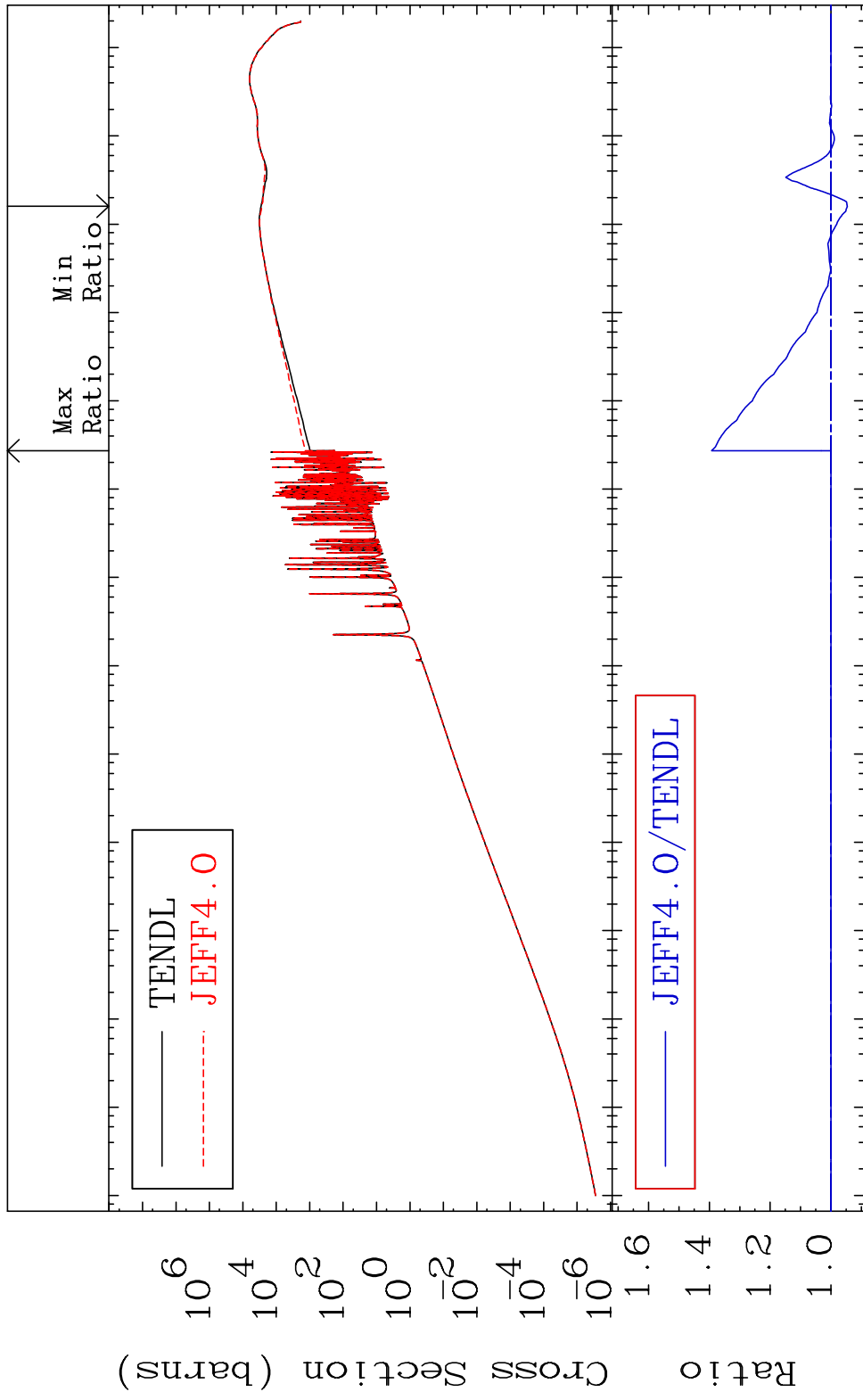
Incident Energy (eV)

64-Gd-154

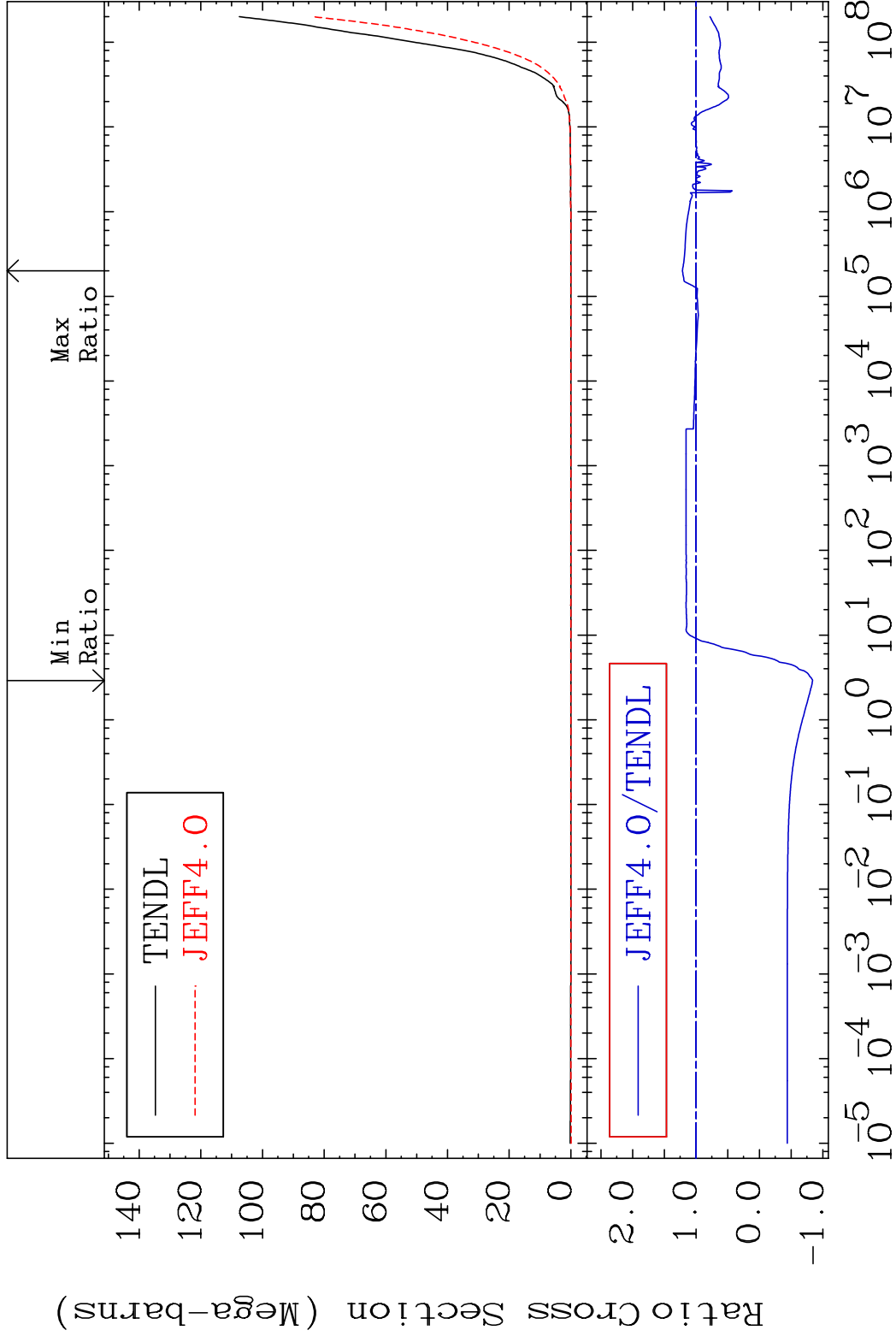
MAT 6431

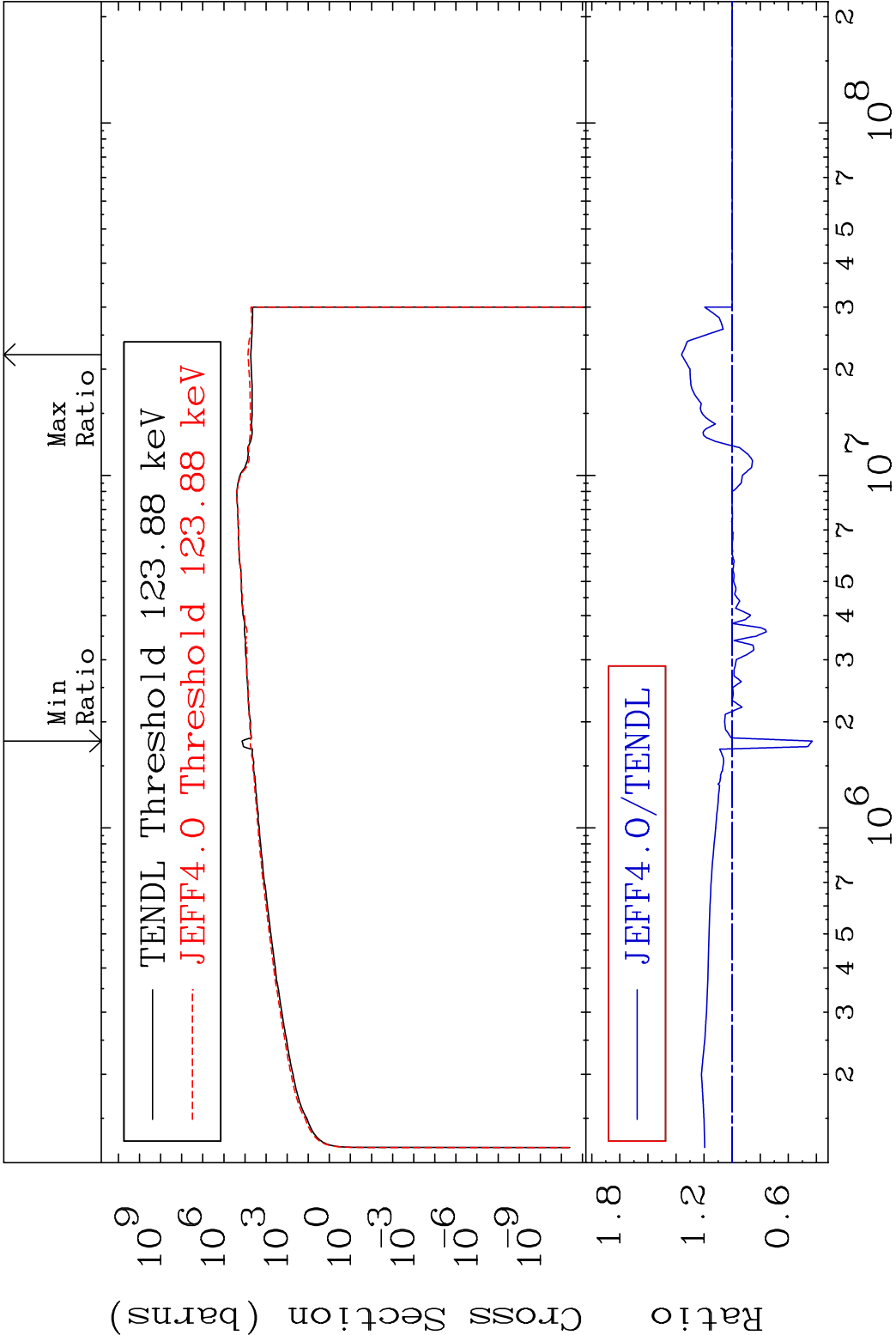
Kerma elastic
Cross Section

64-Gd-154
-5.382 To 39.29 %



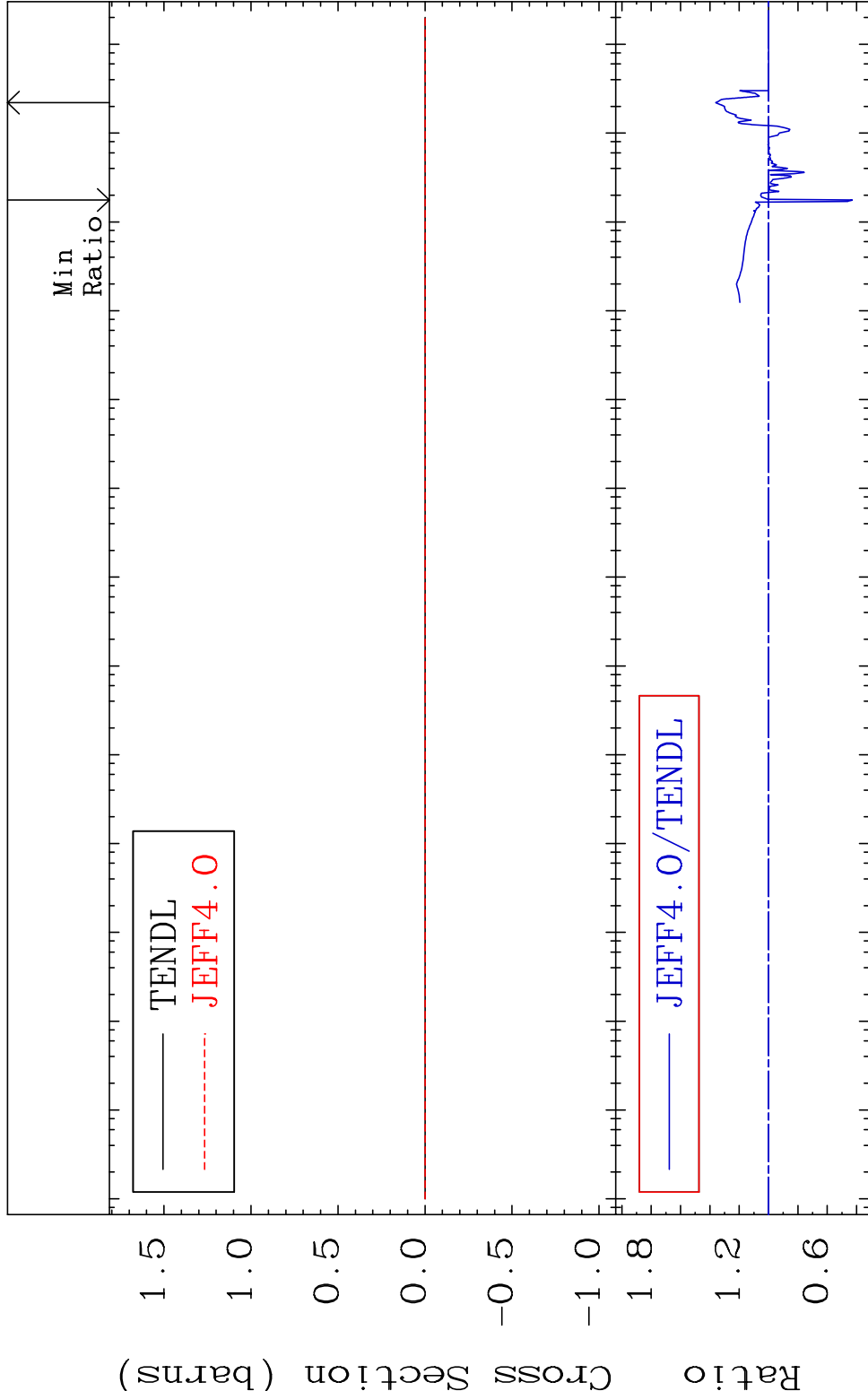
70 Incident Energy (eV) 64-Gd-154



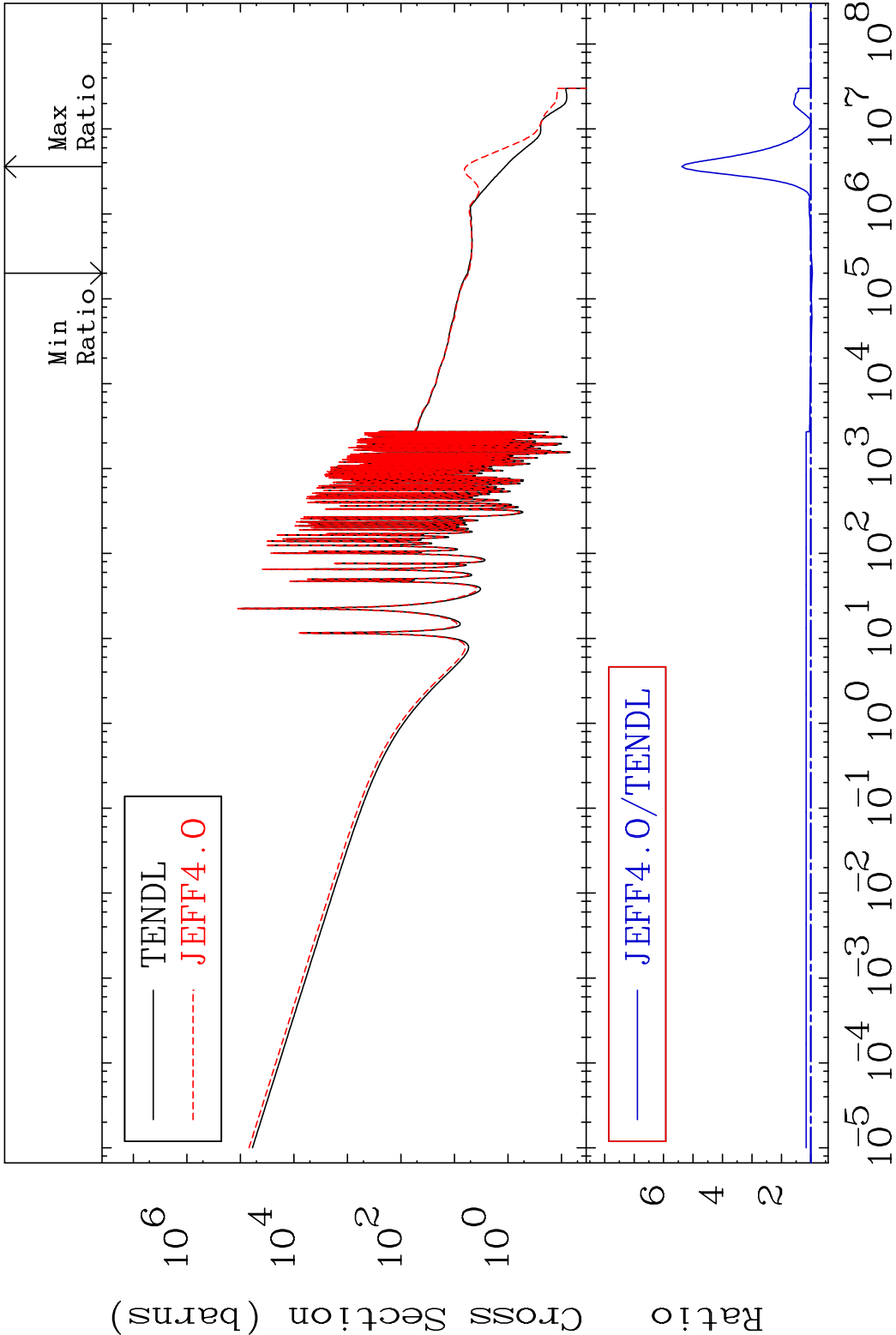


MAT 6431 Kerma fission (mt18 or mt19-20-21-38)64-Gd-154

Cross Section -57.00 To 36.07 %

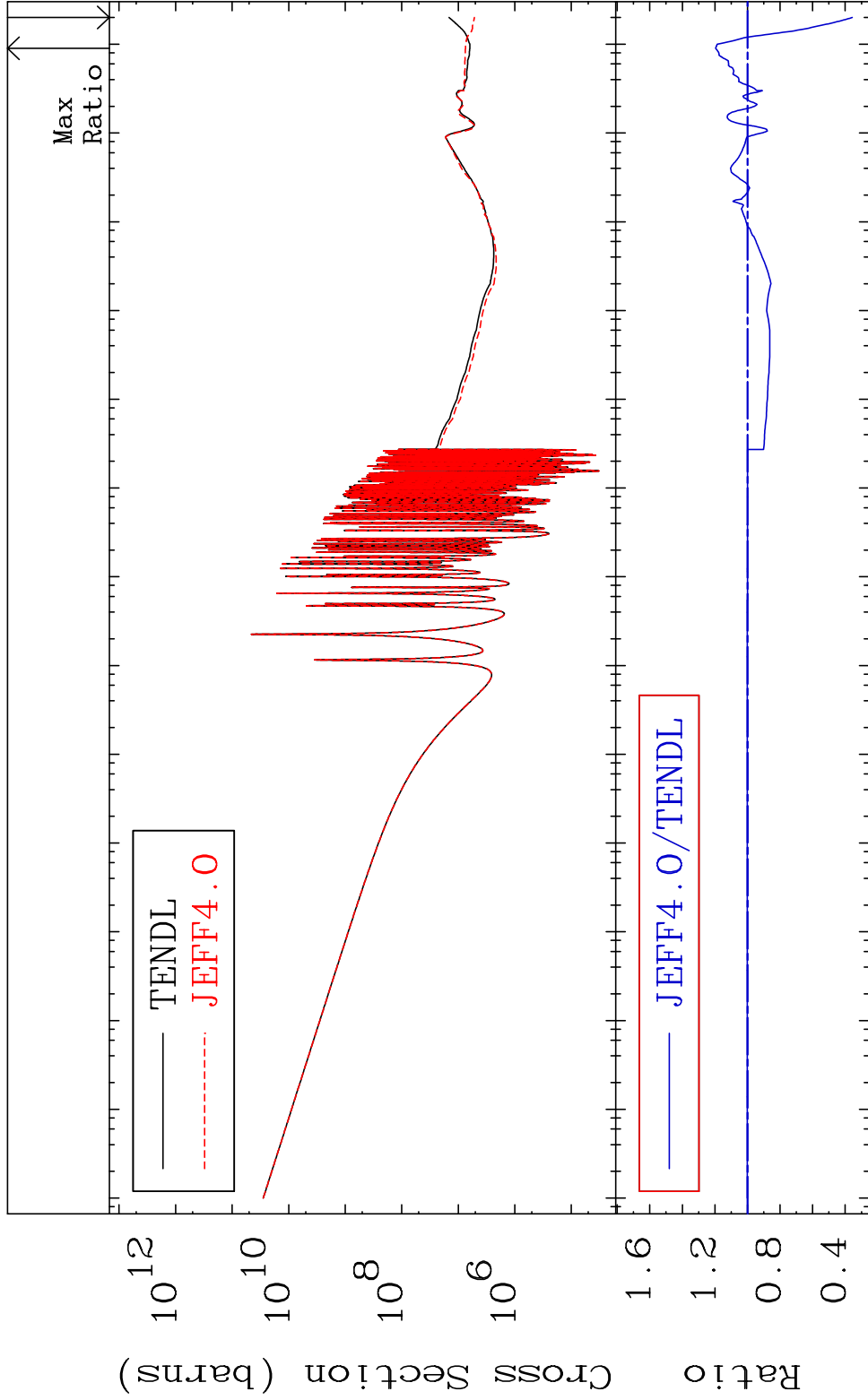


MAT 6431 Kerma capture (mt102) 64-Gd-154
Cross Section -4.978 To 438.3 %



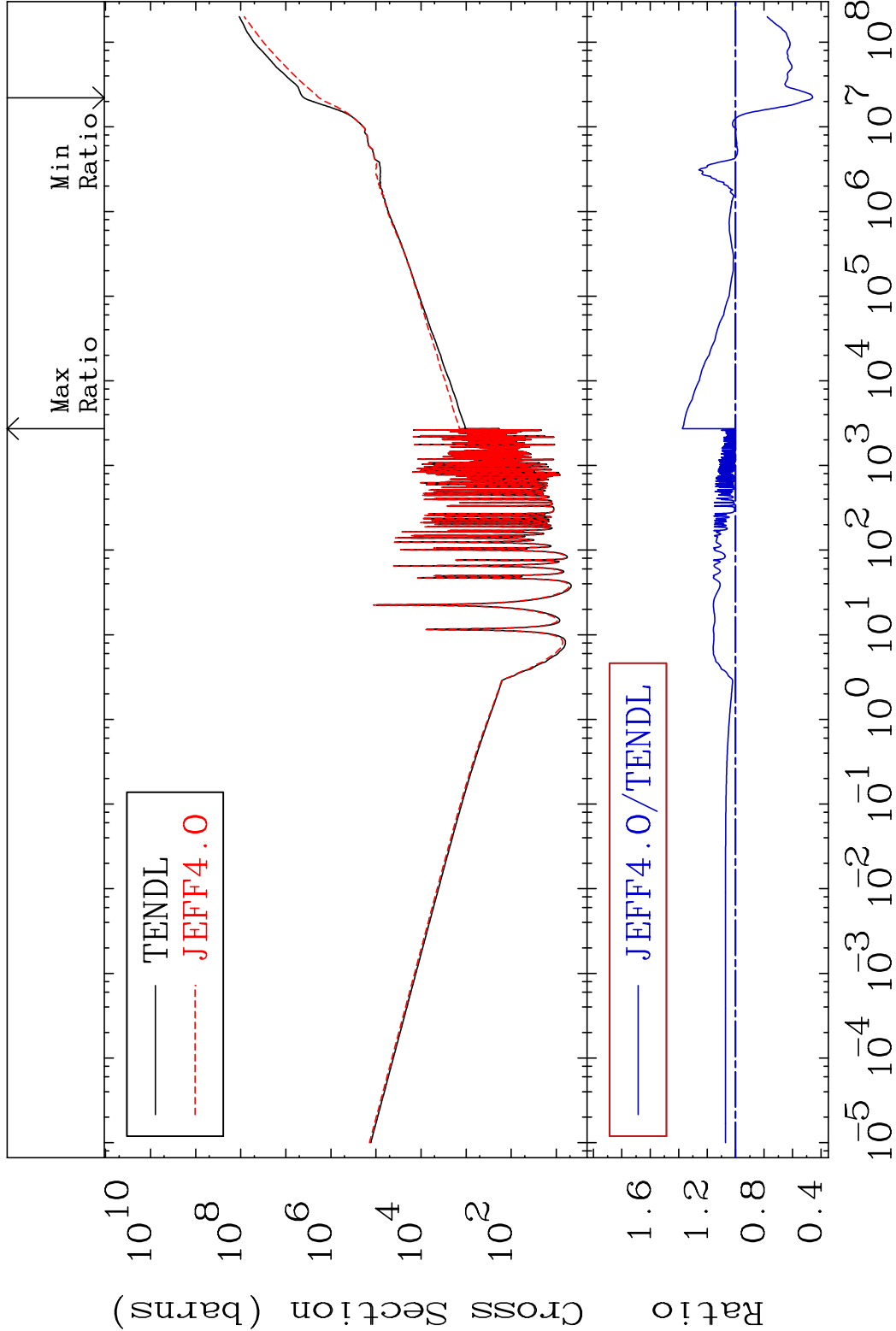
74 Incident Energy (eV) 64-Gd-154

MAT 6431 Total photon (eV-barns) 64-Gd-154
Cross Section -64.30 To 19.54 %

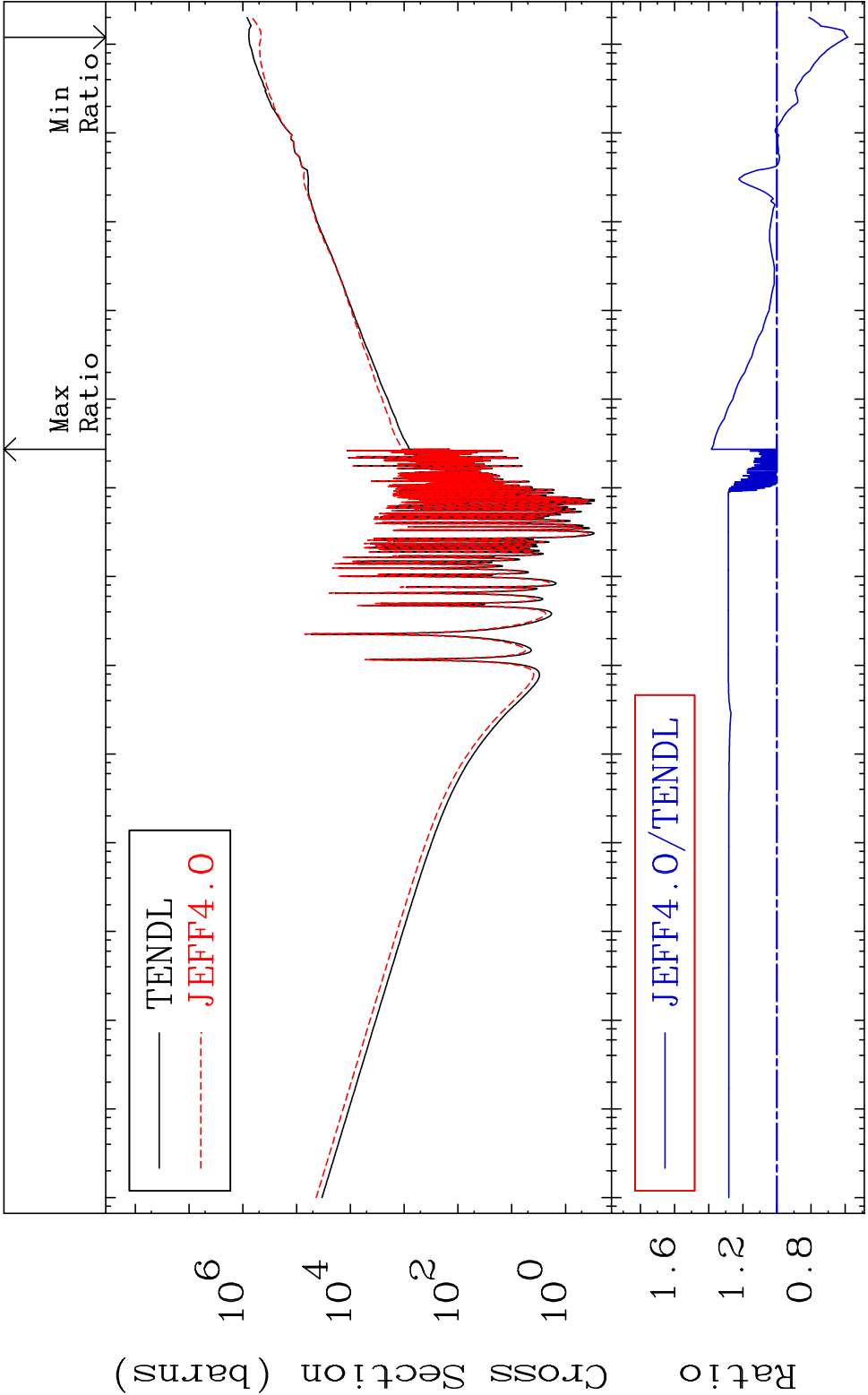


75 Incident Energy (eV) 64-Gd-154

MAT 6431 Total kinematic kerma (high limit) 64-Gd-154
Cross Section -54.07 To 37.44 %



MAT 6431 Dpa total (eV-barns) 64-Gd-154
Cross Section -41.46 To 38.42 %



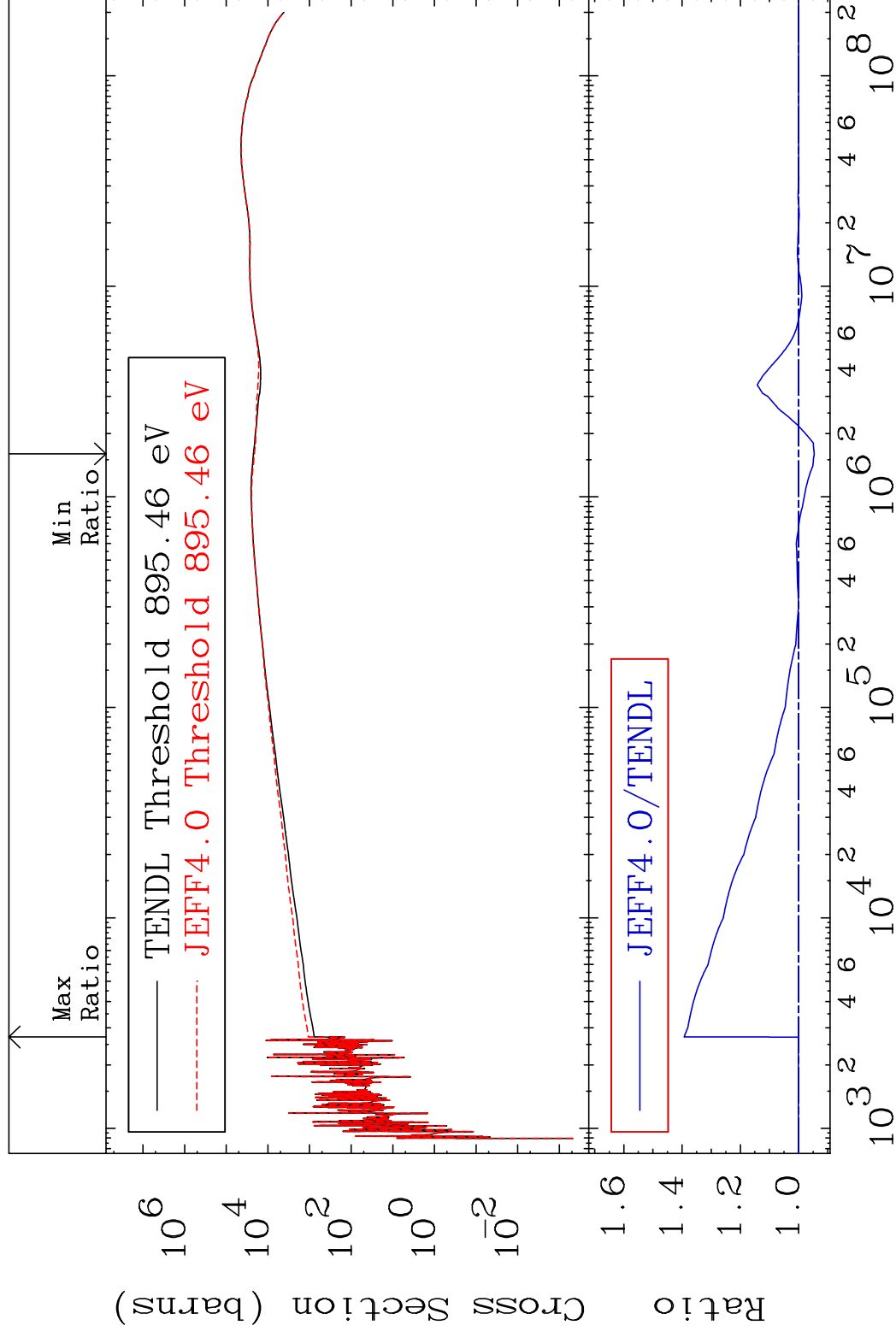
77 Incident Energy (eV) 64-Gd-154

MAT 6431

Dpa elastic (mt2)

64-Gd-154

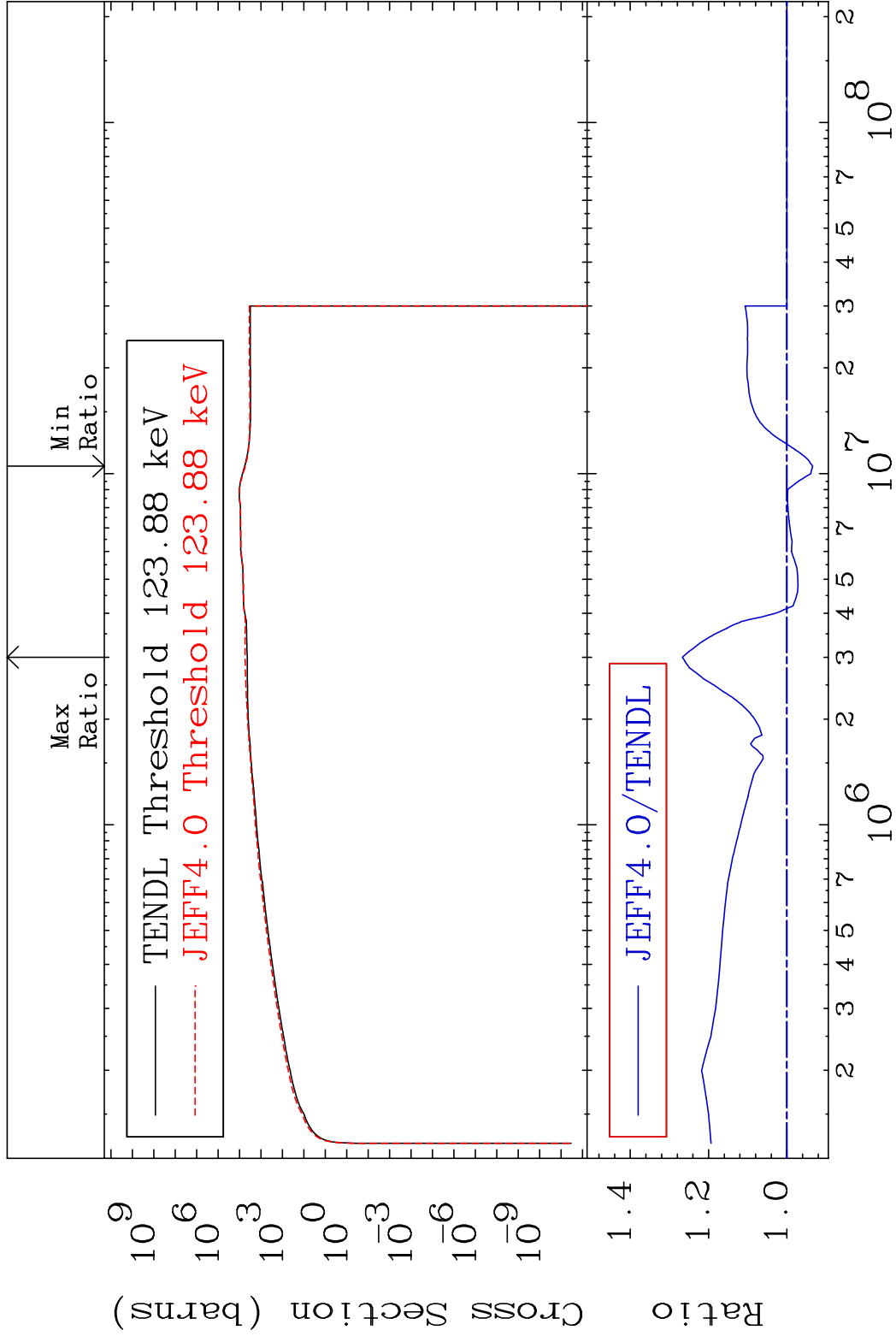
Cross Section -5.378 To 39.31 %



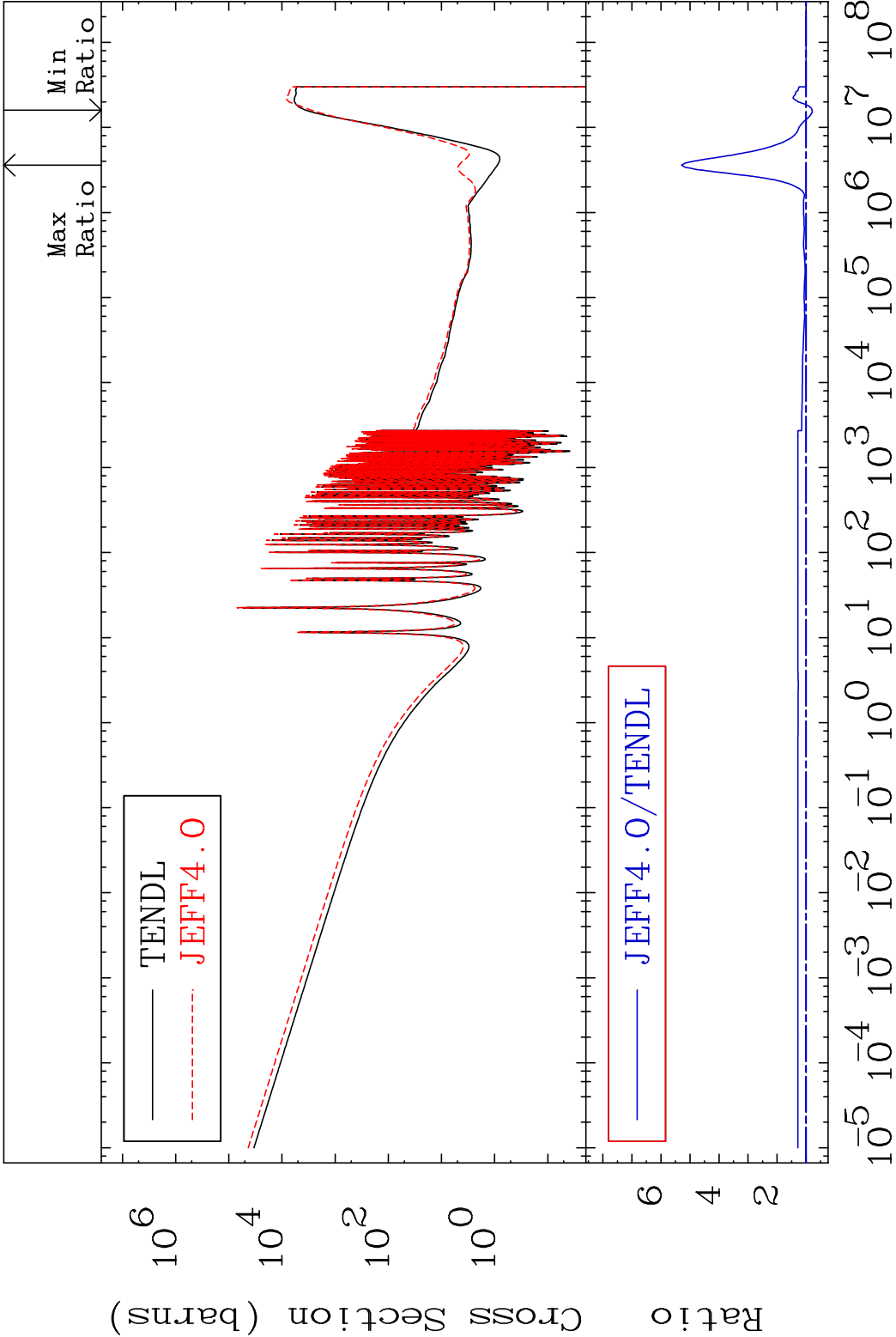
82

Incident Energy (eV)

64-Gd-154



MAT 6431 Dpa disappearance (mt102 -120) 64-Gd-154
Cross Section -21.08 To 429.0 %



80 Incident Energy (eV) 64-Gd-154

