

Program Complot  
(Version 2018-1)

by

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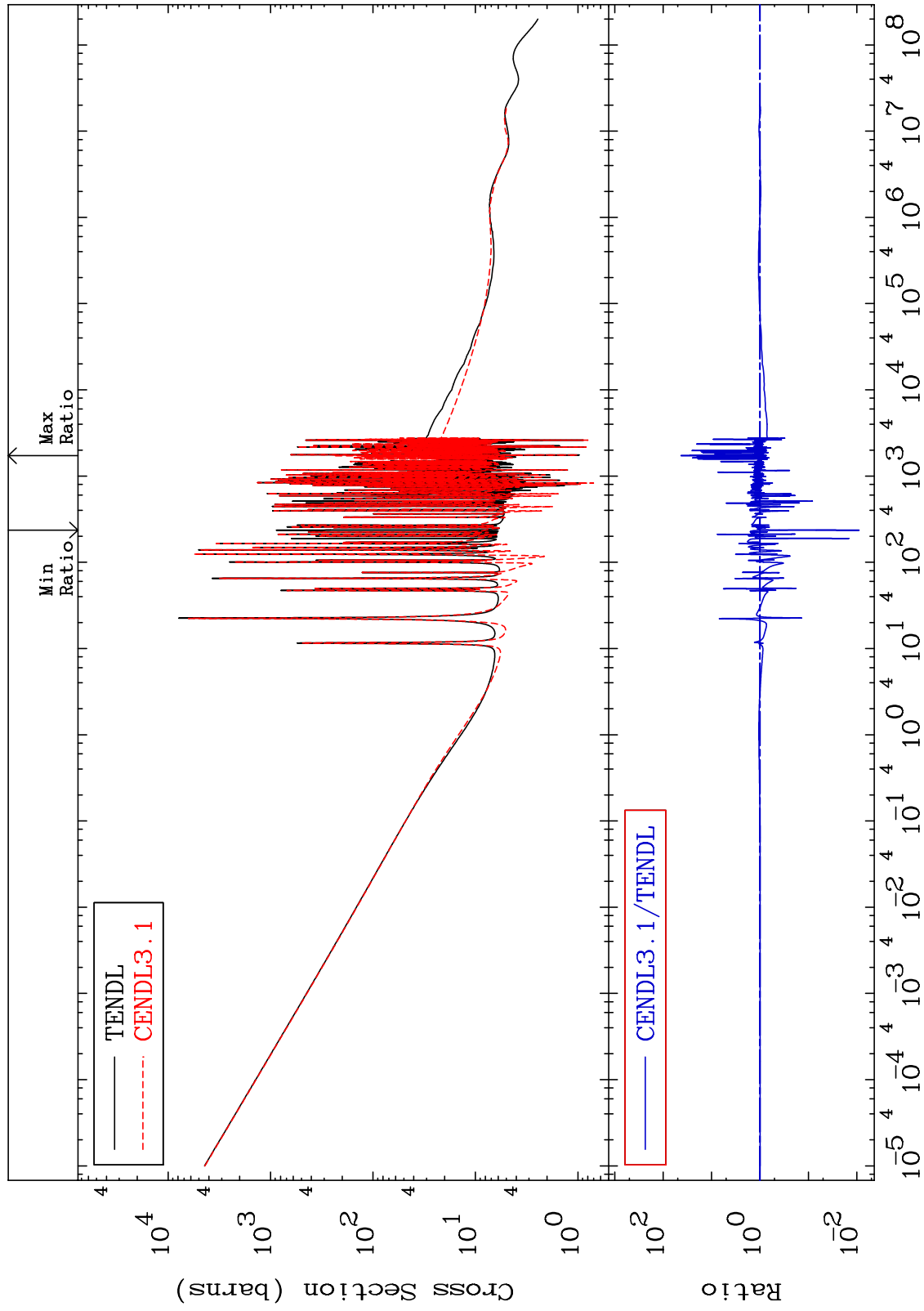
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6431

Total  
Cross Section

64-Gd-154  
-99.10 To 4208. %



1

Incident Energy (eV)

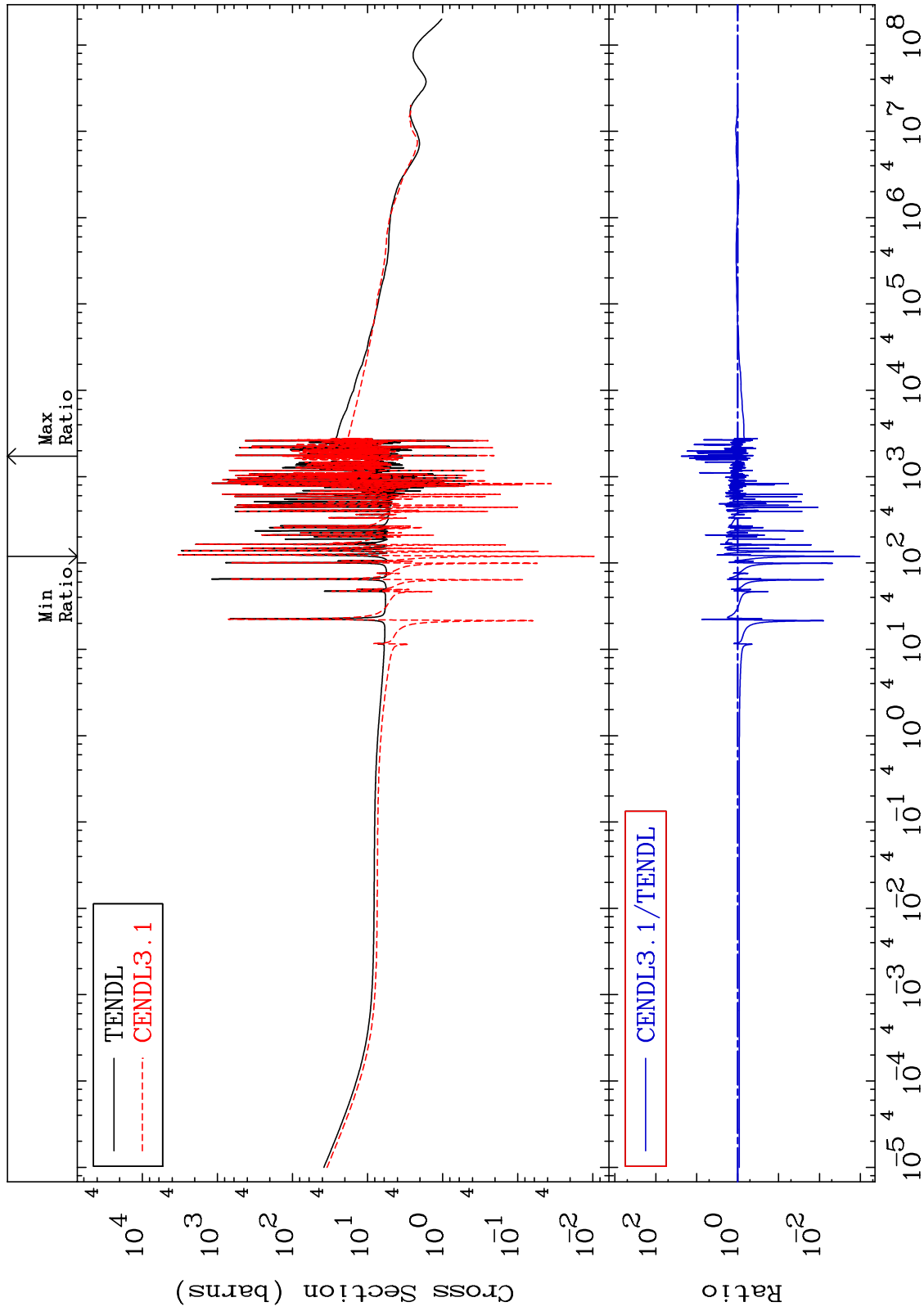
64-Gd-154

MAT 6431

Elastic  
Cross Section

64-Gd-154

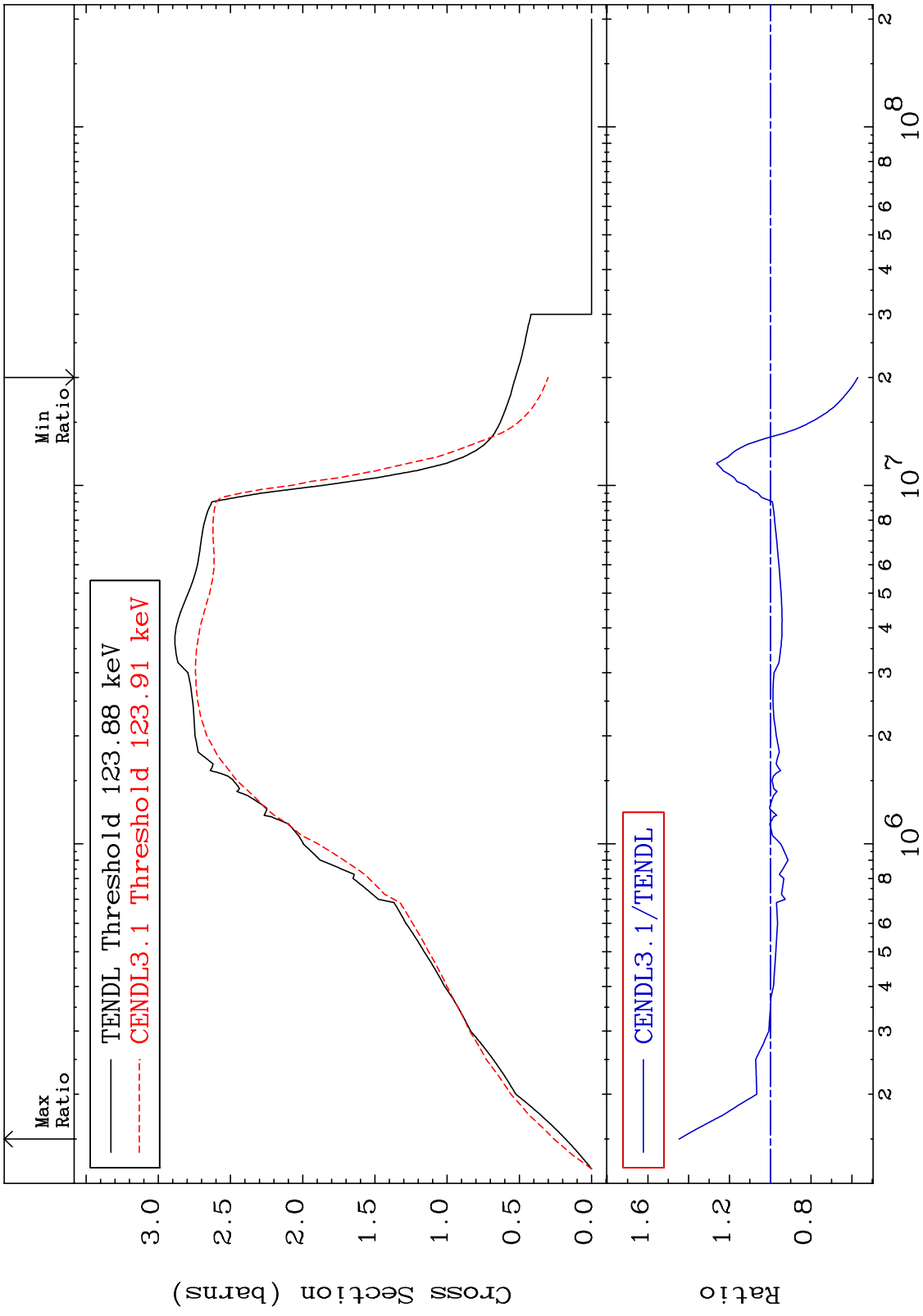
-99.90 To 2287. %



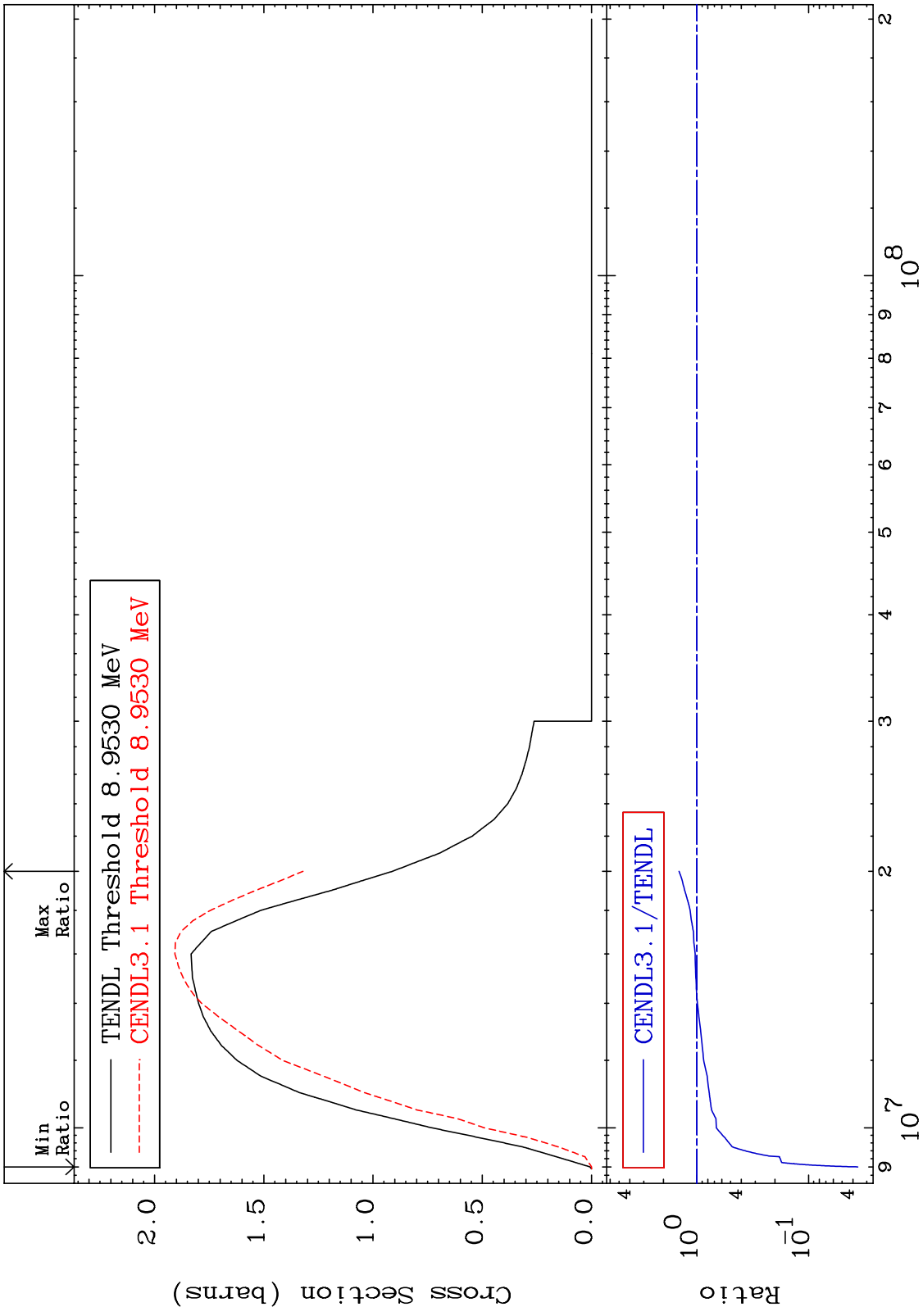
2

Incident Energy (eV)

64-Gd-154

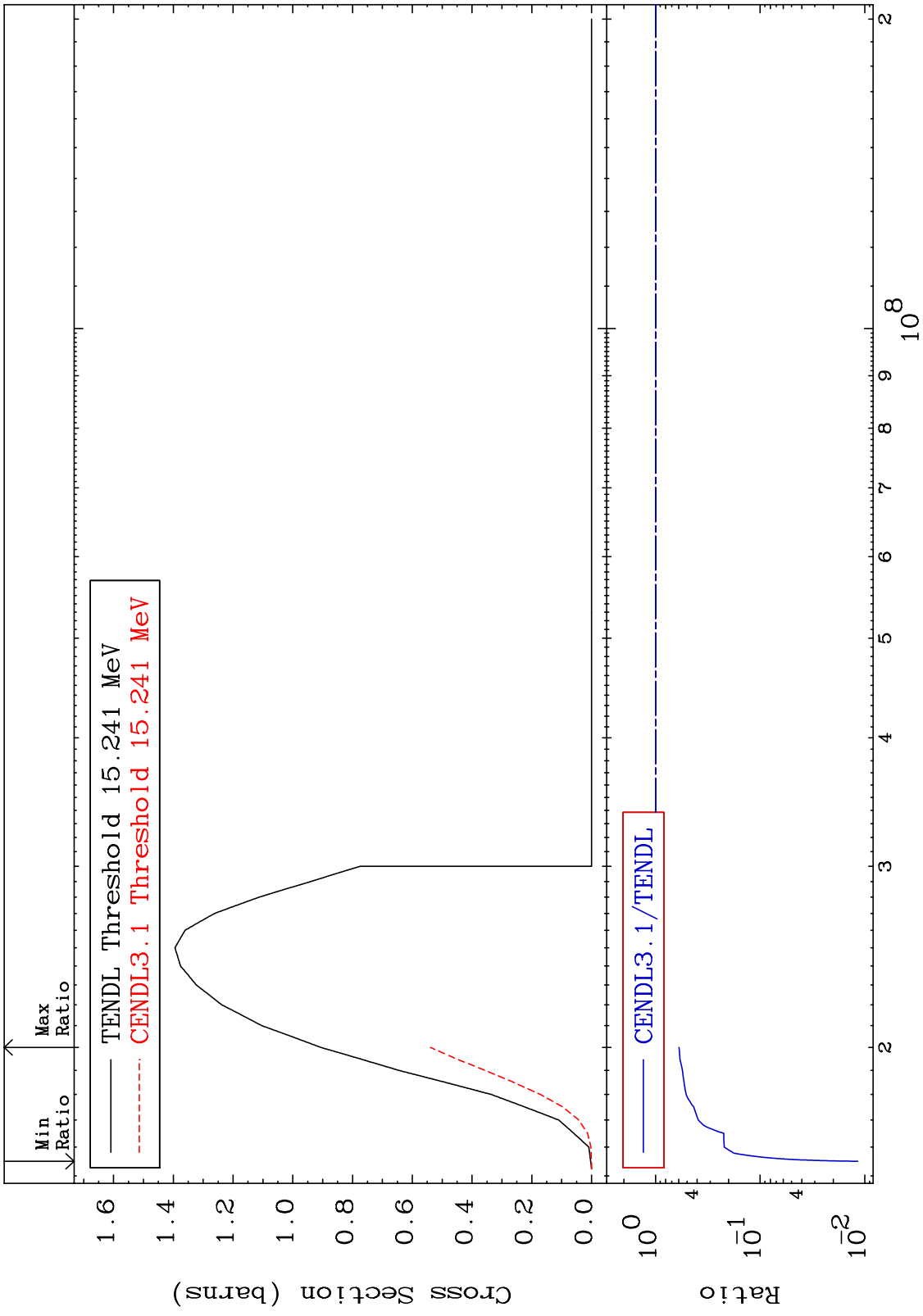


MAT 6431 (n,2n) 64-Gd-154  
Cross Section -96.39 To 44.89 %



4 Incident Energy (eV) 64-Gd-154

MAT 6431 (n,3n) 64-Gd-154  
 Cross Section -98.84 To -40.46%



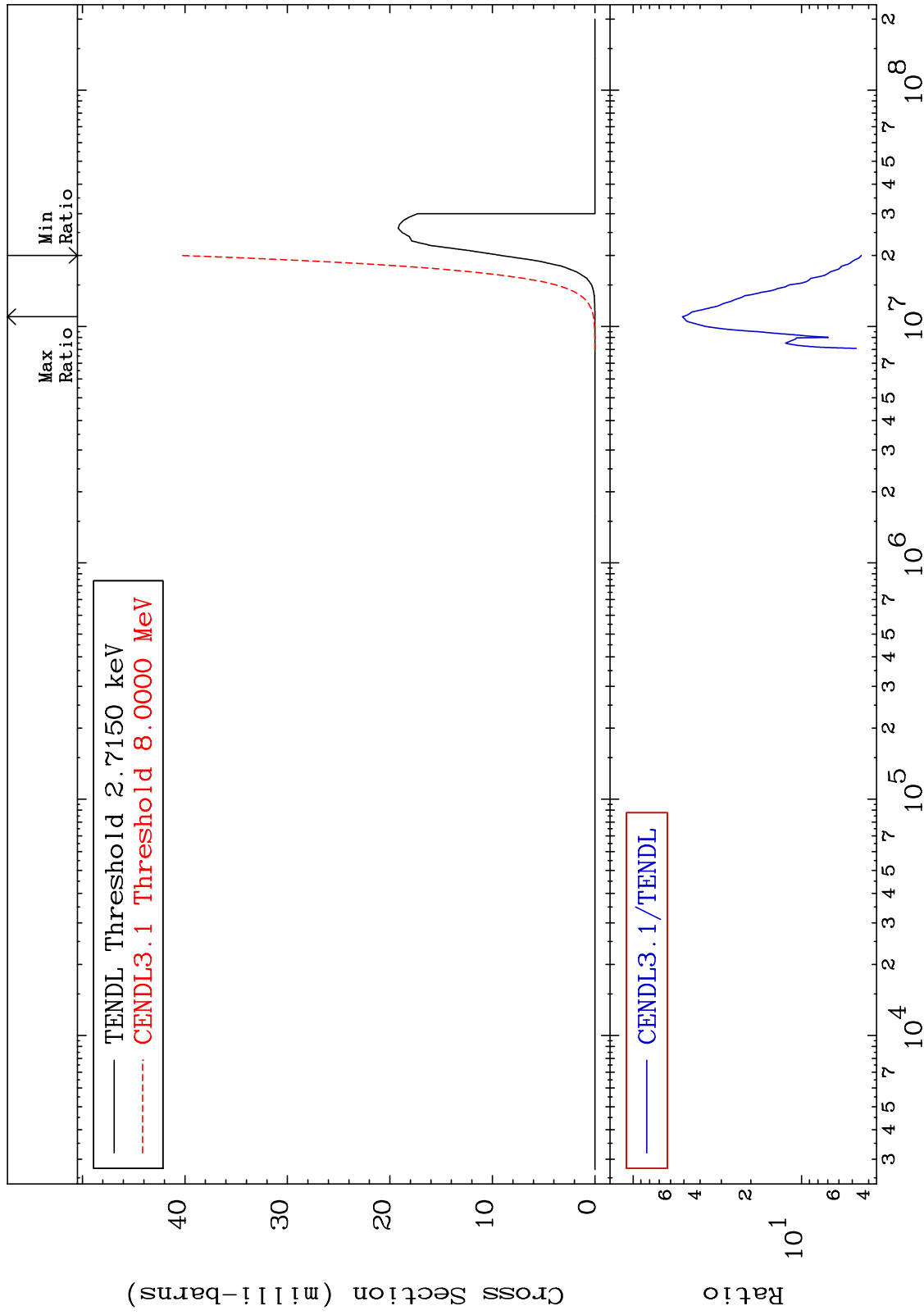
MAT 6431

$(n, n') \alpha$

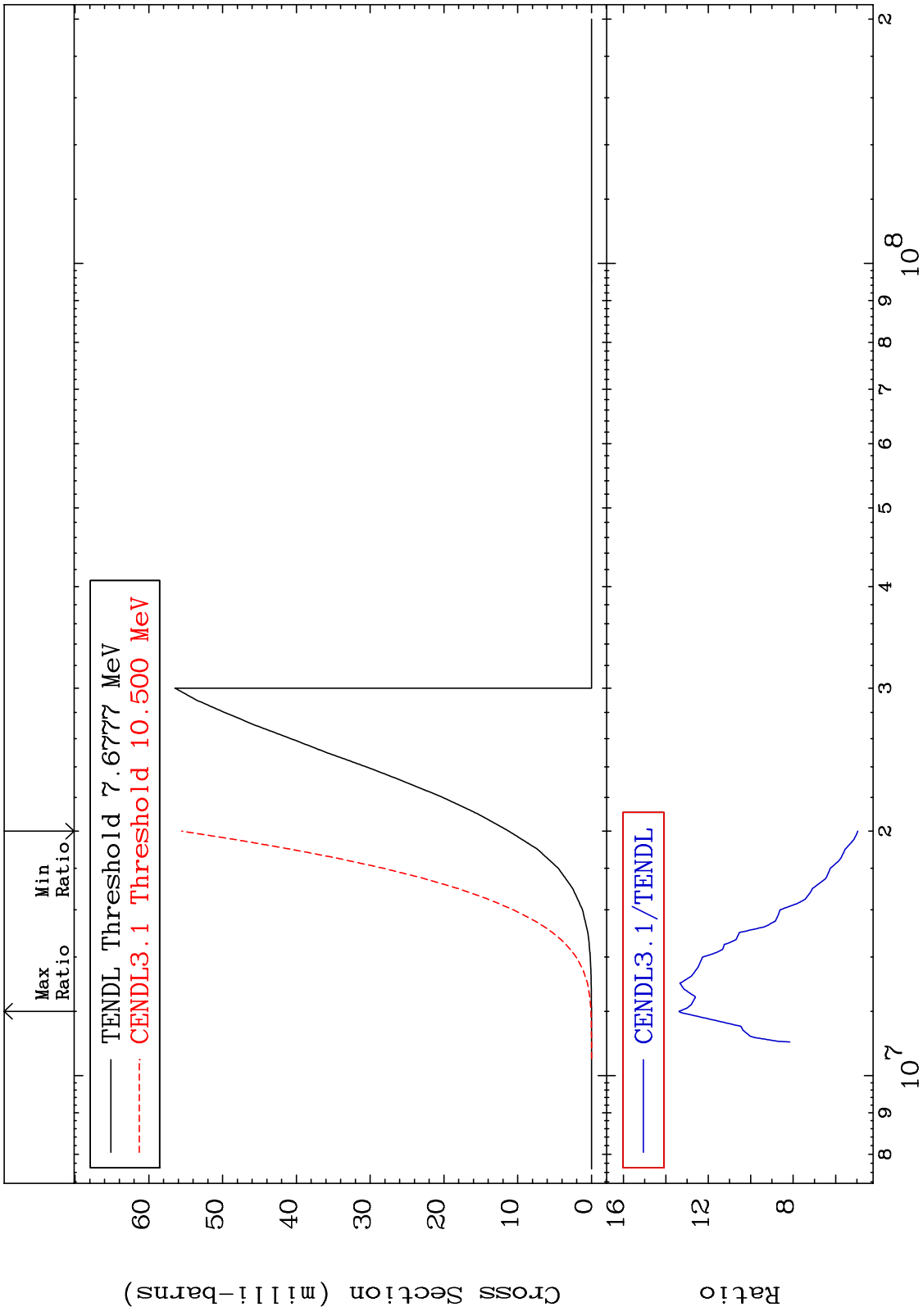
64-Gd-154

Cross Section

342.4 To 4998. %



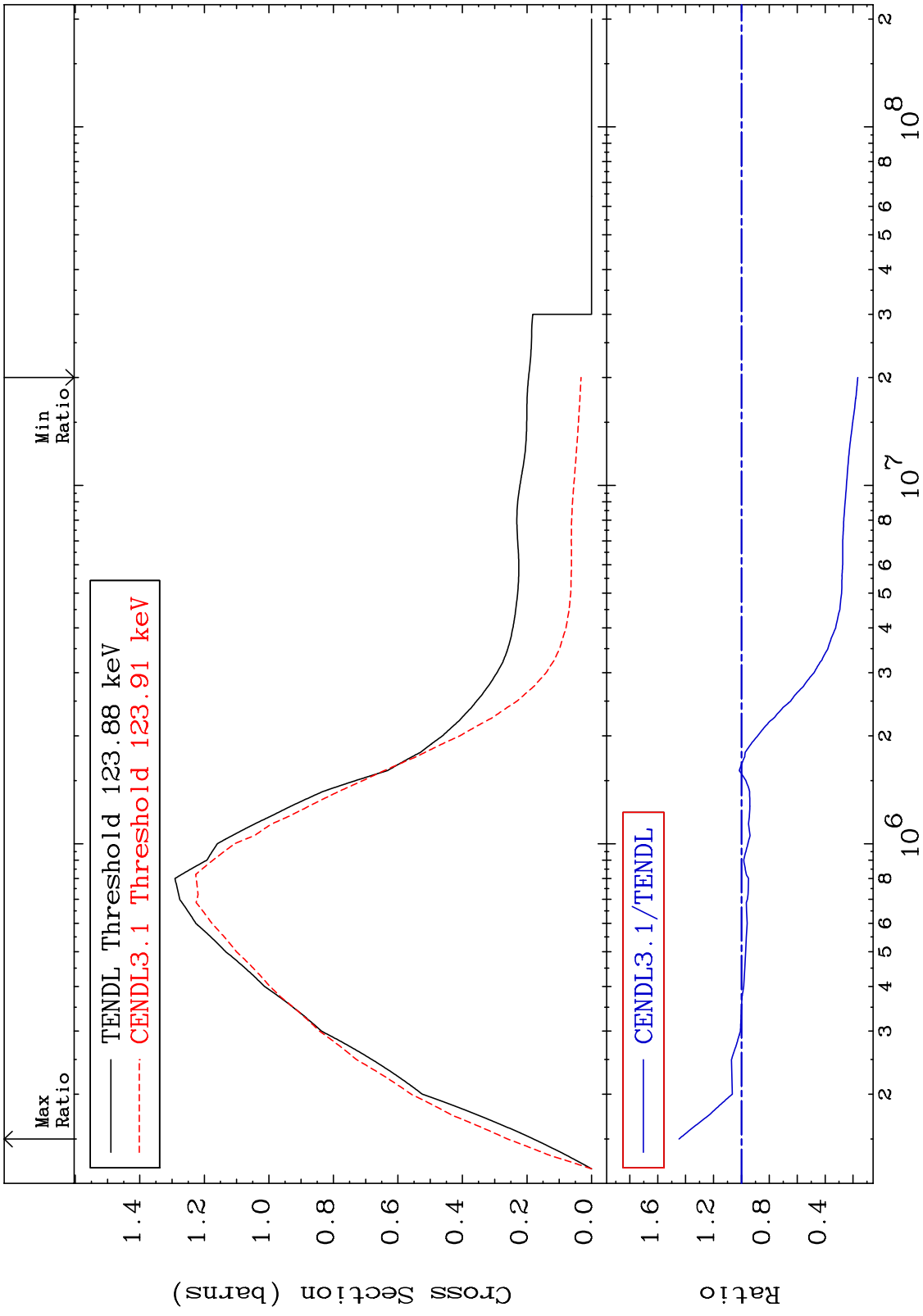
MAT 6431  $(n, n')$  p 64-Gd-154  
 Cross Section 395.3 To 1238. %



7 8 9 10<sup>7</sup> 2 3 4 5 6 7 8 9 10<sup>8</sup> 2 64-Gd-154



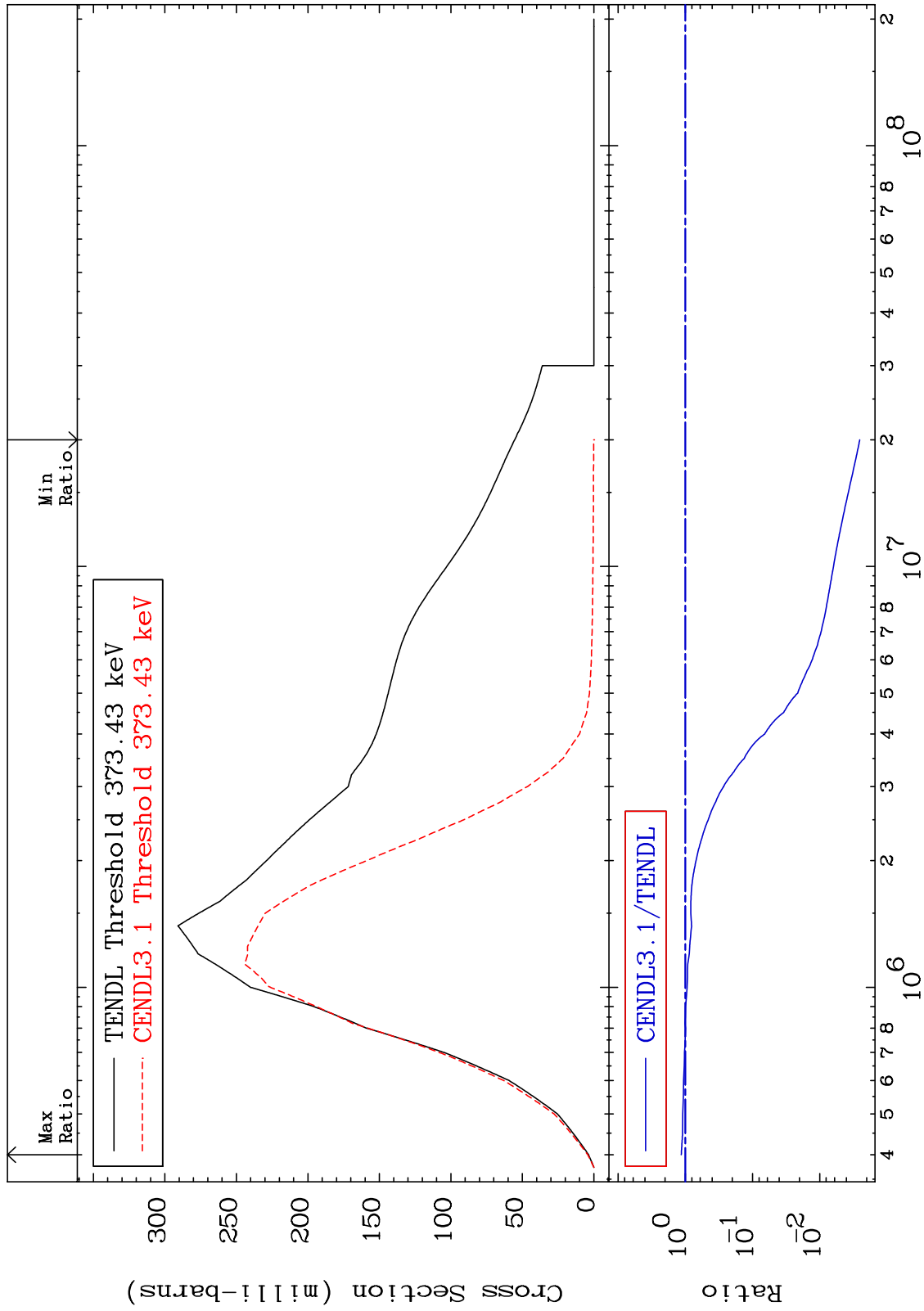
MAT 6431 MT= 51 (n,n') Level Cross Section 64-Gd-154 -83.44 To 44.73 %



MAT 6431

MT= 52 (n,n') Level  
Cross Section

64-Gd-154  
-99.75 To 15.06 %



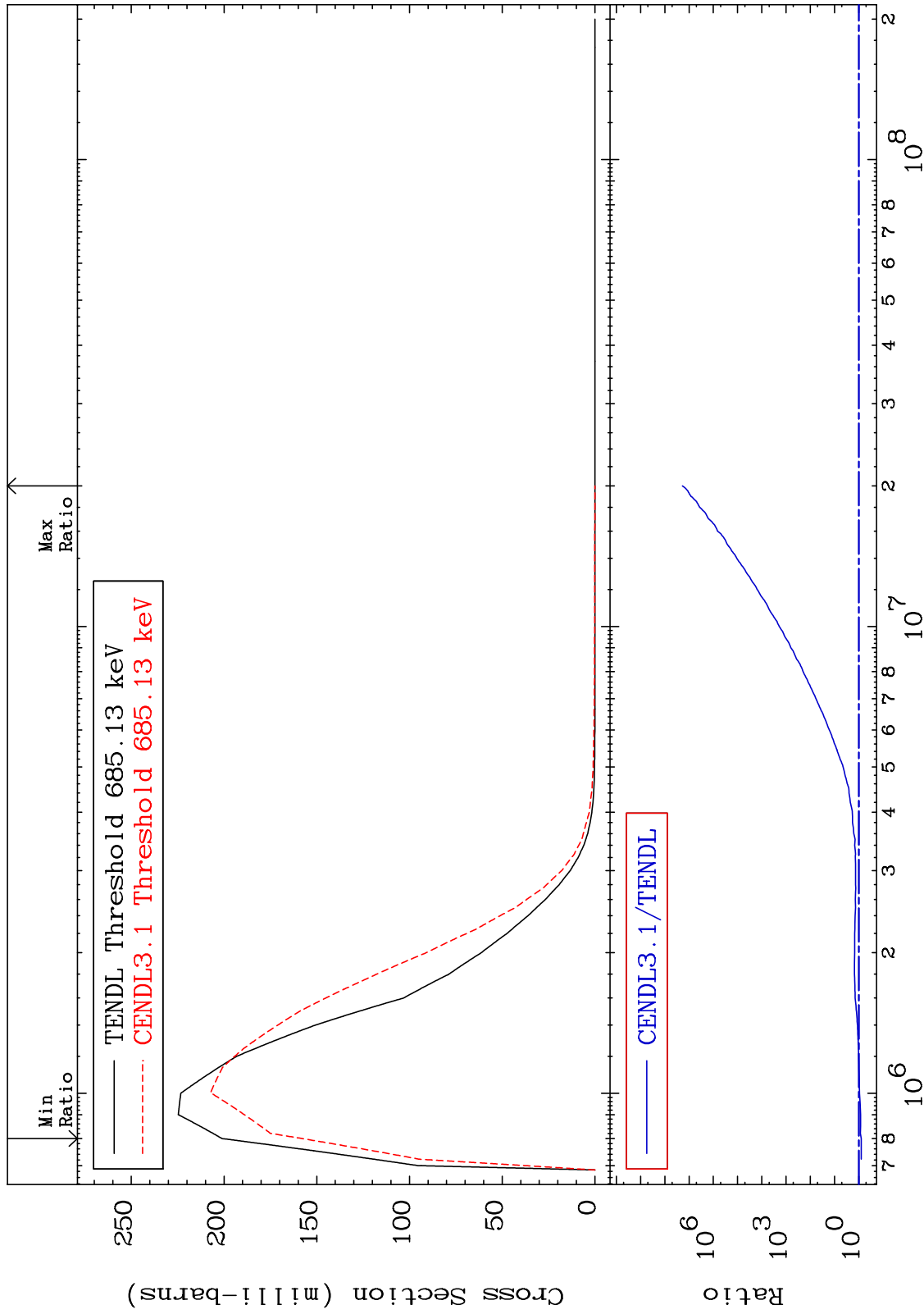
9

64-Gd-154

MAT 6431

MT= 53 (n,n') Level  
Cross Section

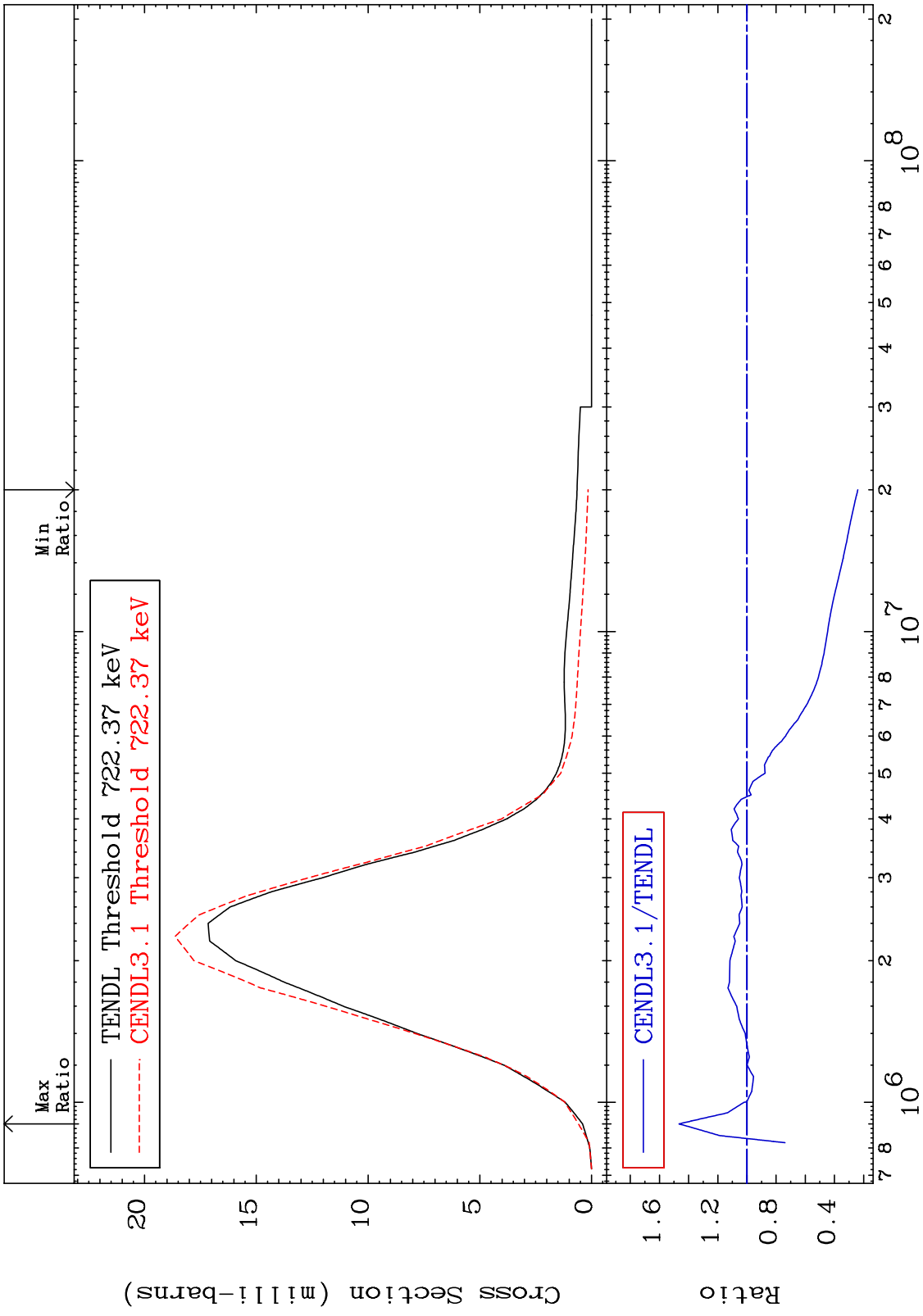
64-Gd-154  
-21.44 To 9999. %



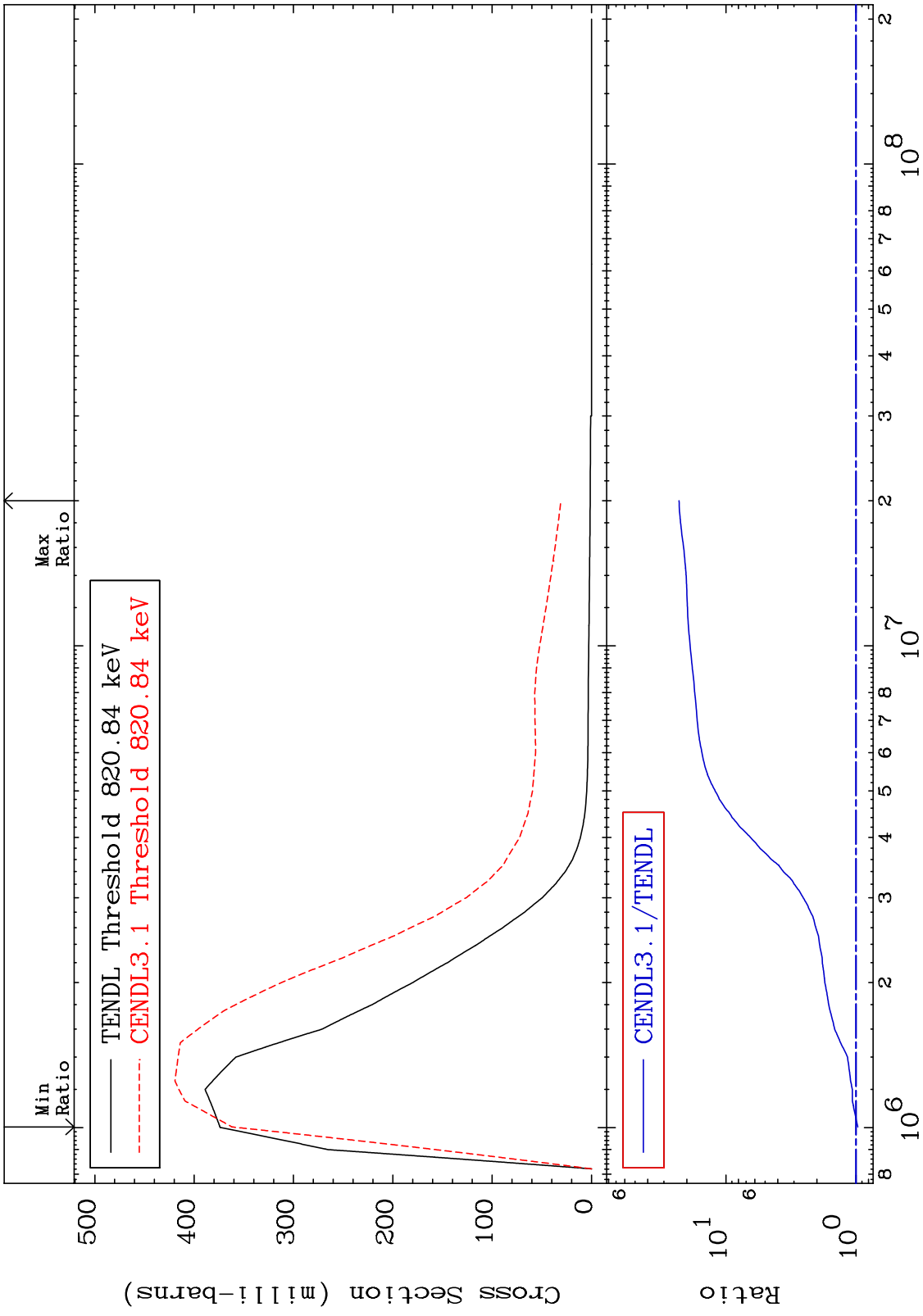
10

64-Gd-154

MAT 6431 MT= 54 (n,n') Level Cross Section 64-Gd-154  
 -76.05 To 46.58 %



MAT 6431 MT= 55 (n,n') Level Cross Section 64-Gd-154  
 -3.234 To 2194. %

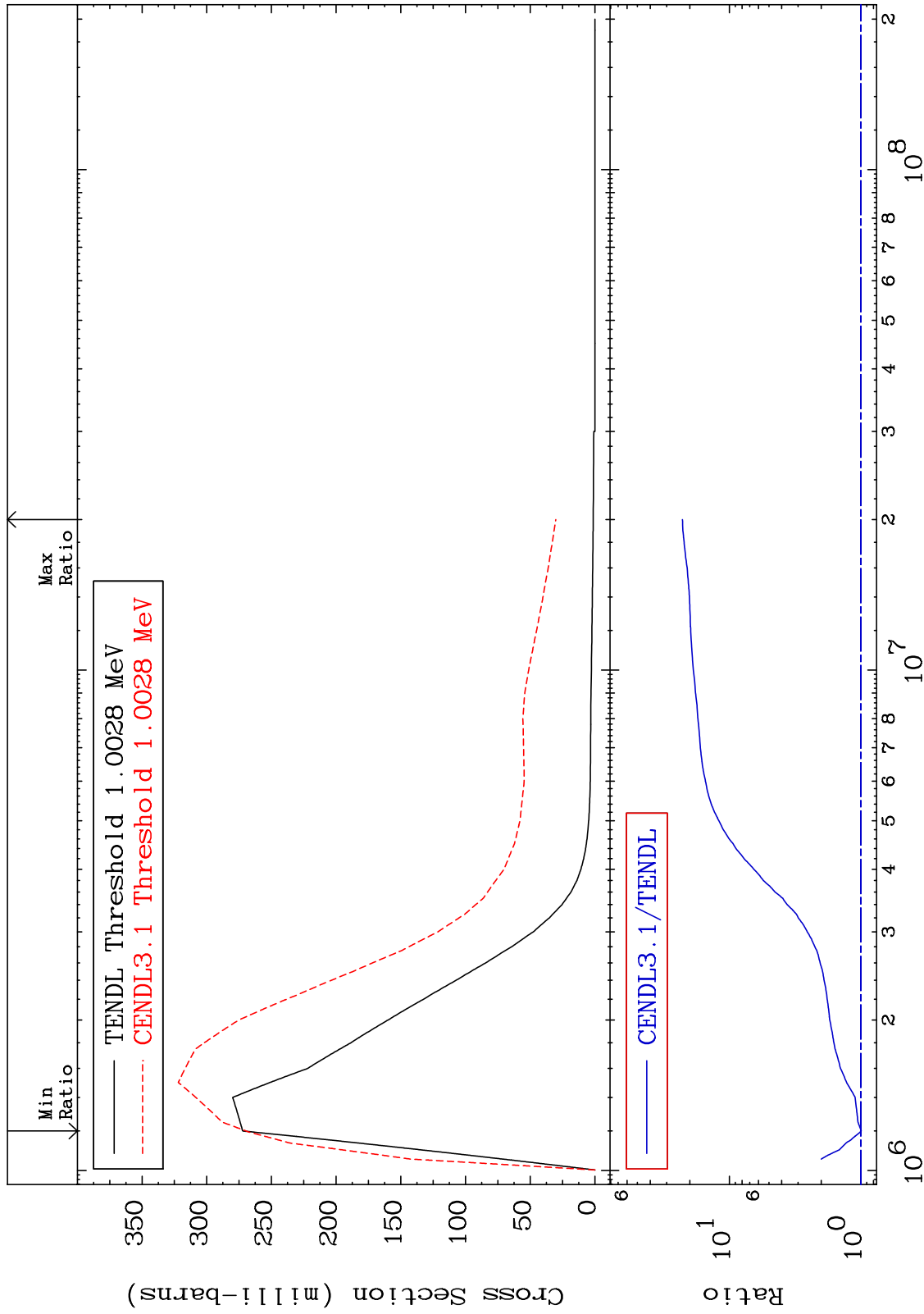


12 Incident Energy (eV) 64-Gd-154

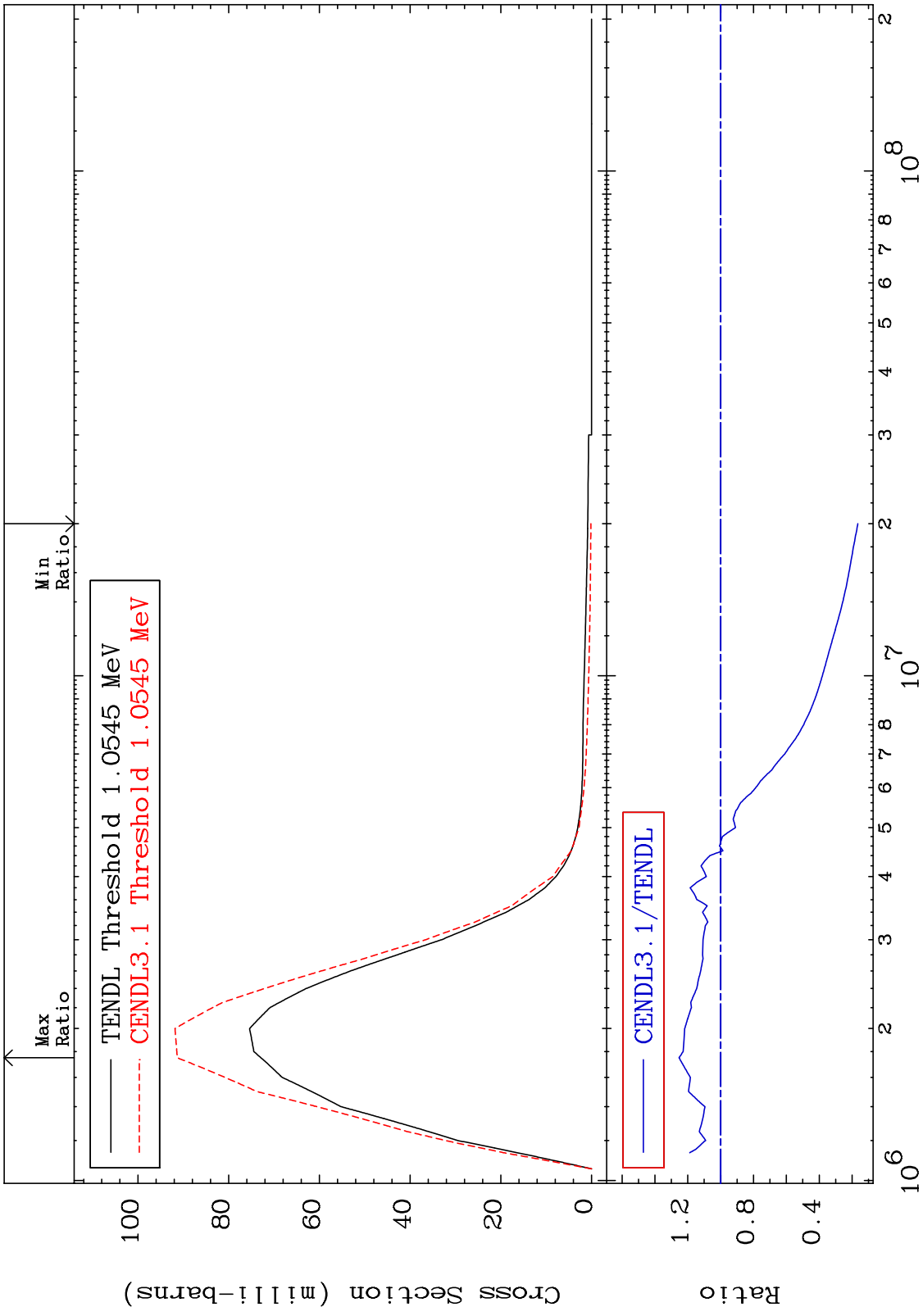
MAT 6431

MT= 56 (n,n') Level  
Cross Section

64-Gd-154  
-0.945 To 2172. %

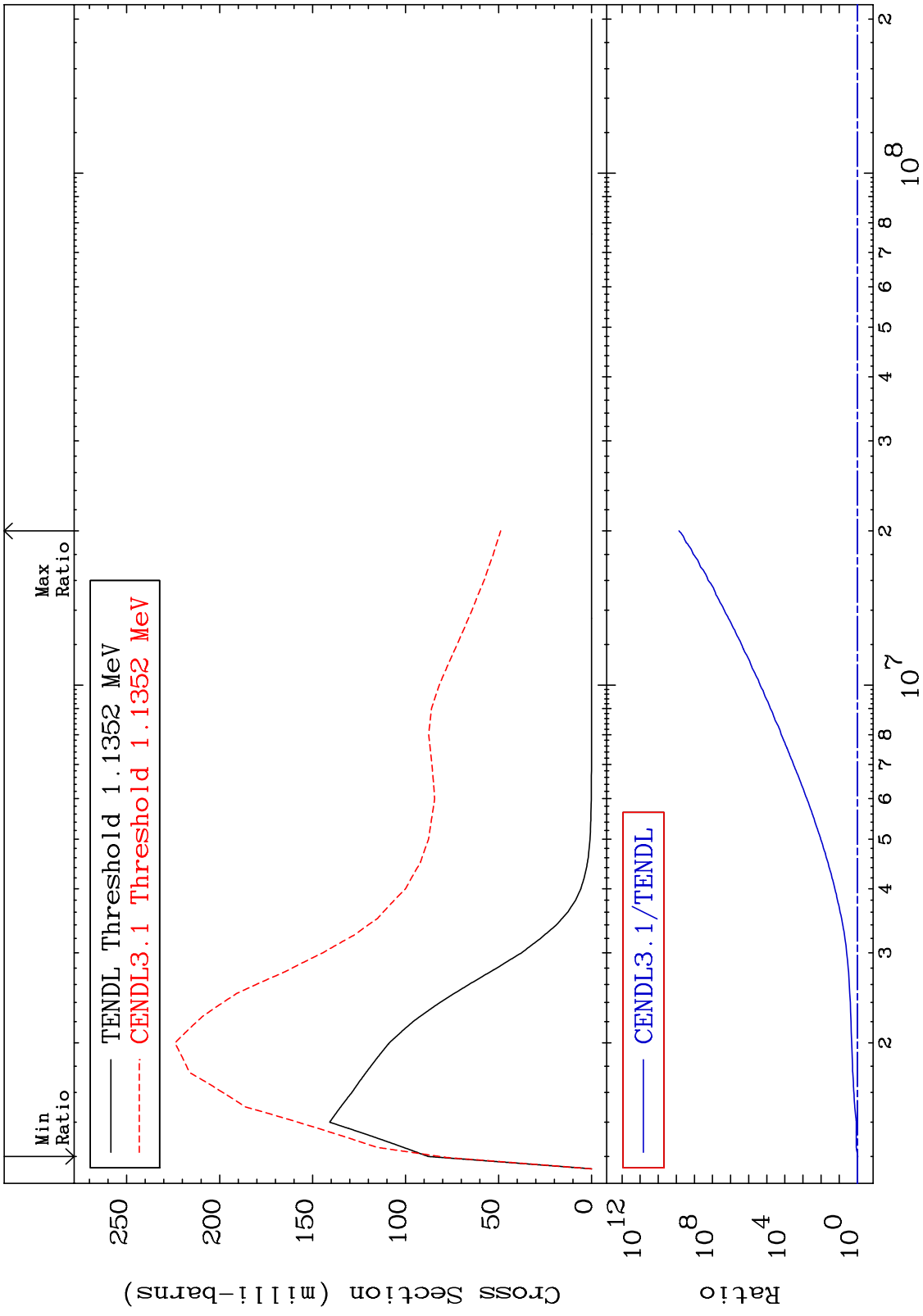


MAT 6431 MT= 57 (n,n') Level Cross Section 64-Gd-154 -83.51 To 25.31 %



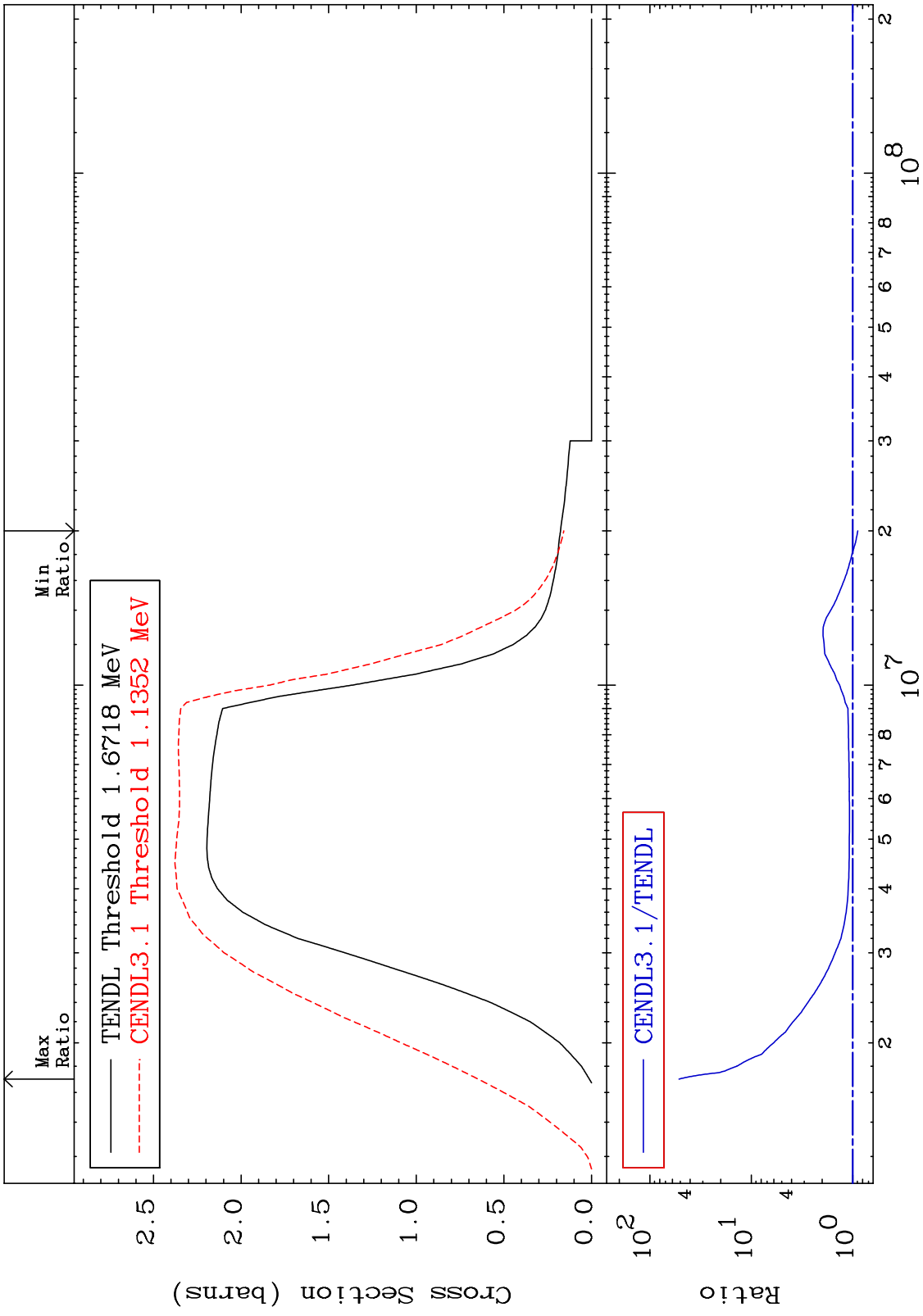
14 64-Gd-154

MAT 6431 MT= 58 (n,n') Level Cross Section 64-Gd-154  
 -7.199 To 9999. %





MAT 6431 (n, n') Continuum Cross Section 64-Gd-154 -11.00 To 5051. %

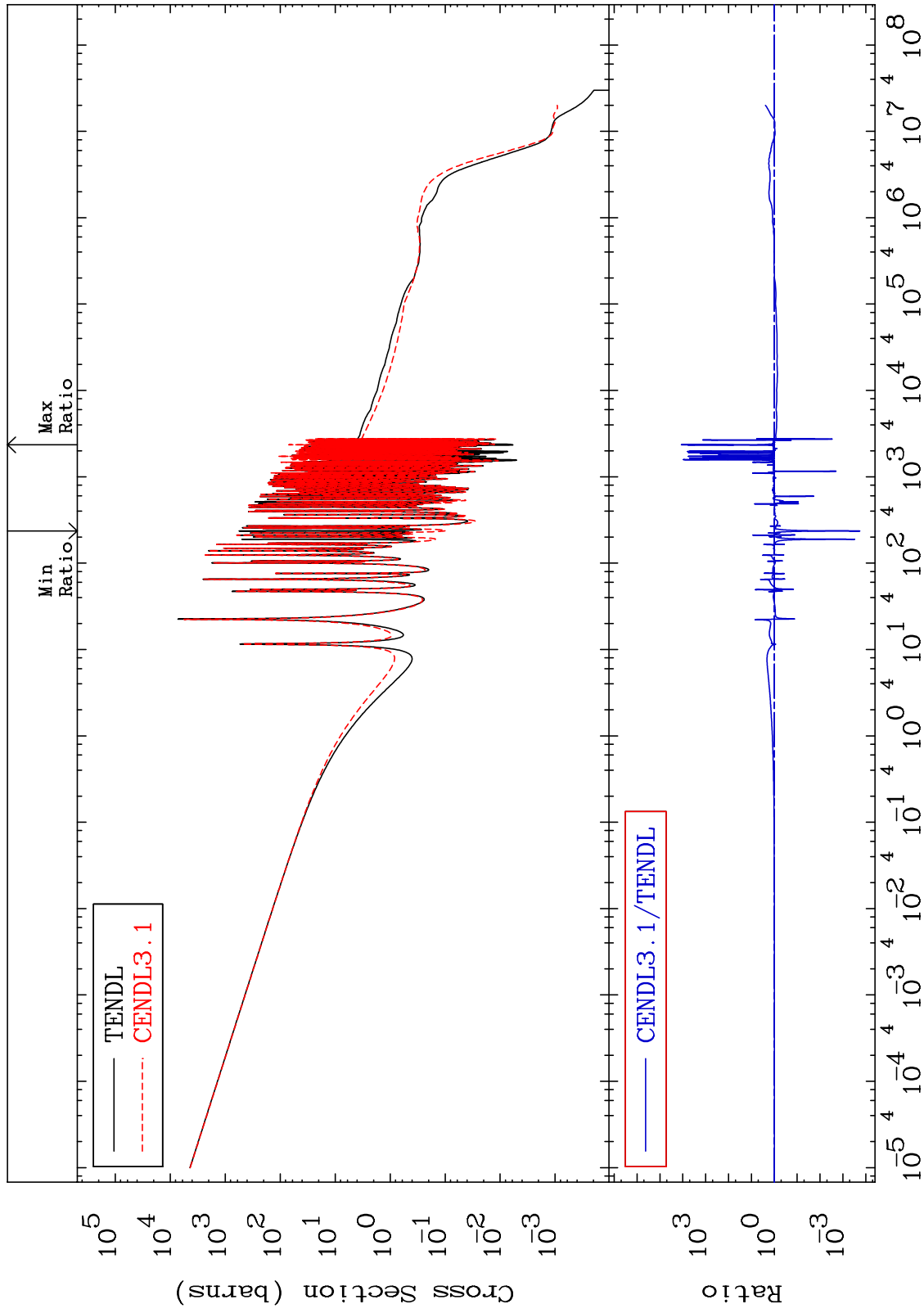


MAT 6431

(n,  $\gamma$ )

64-Gd-154

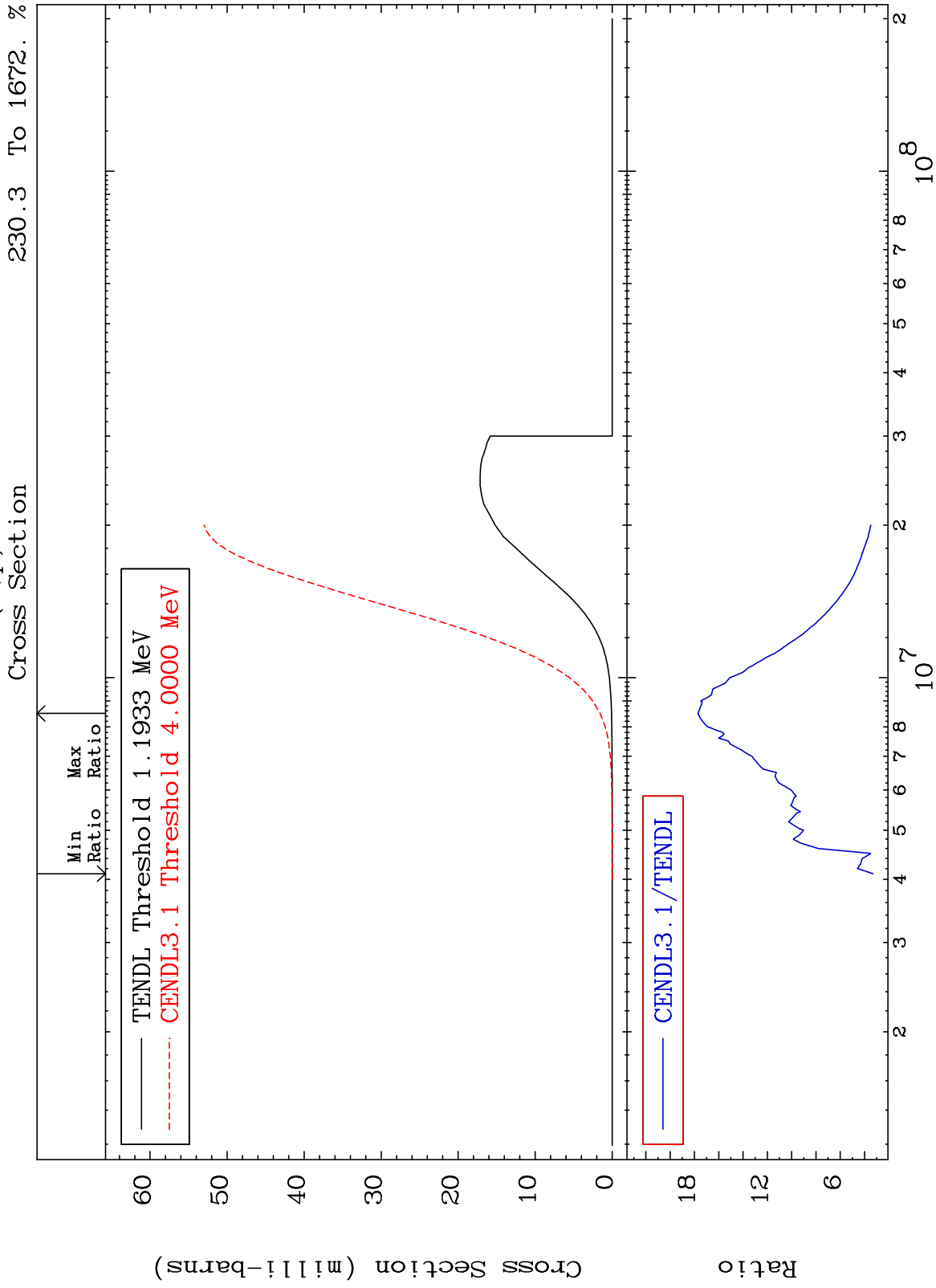
-99.98 To 9999. %



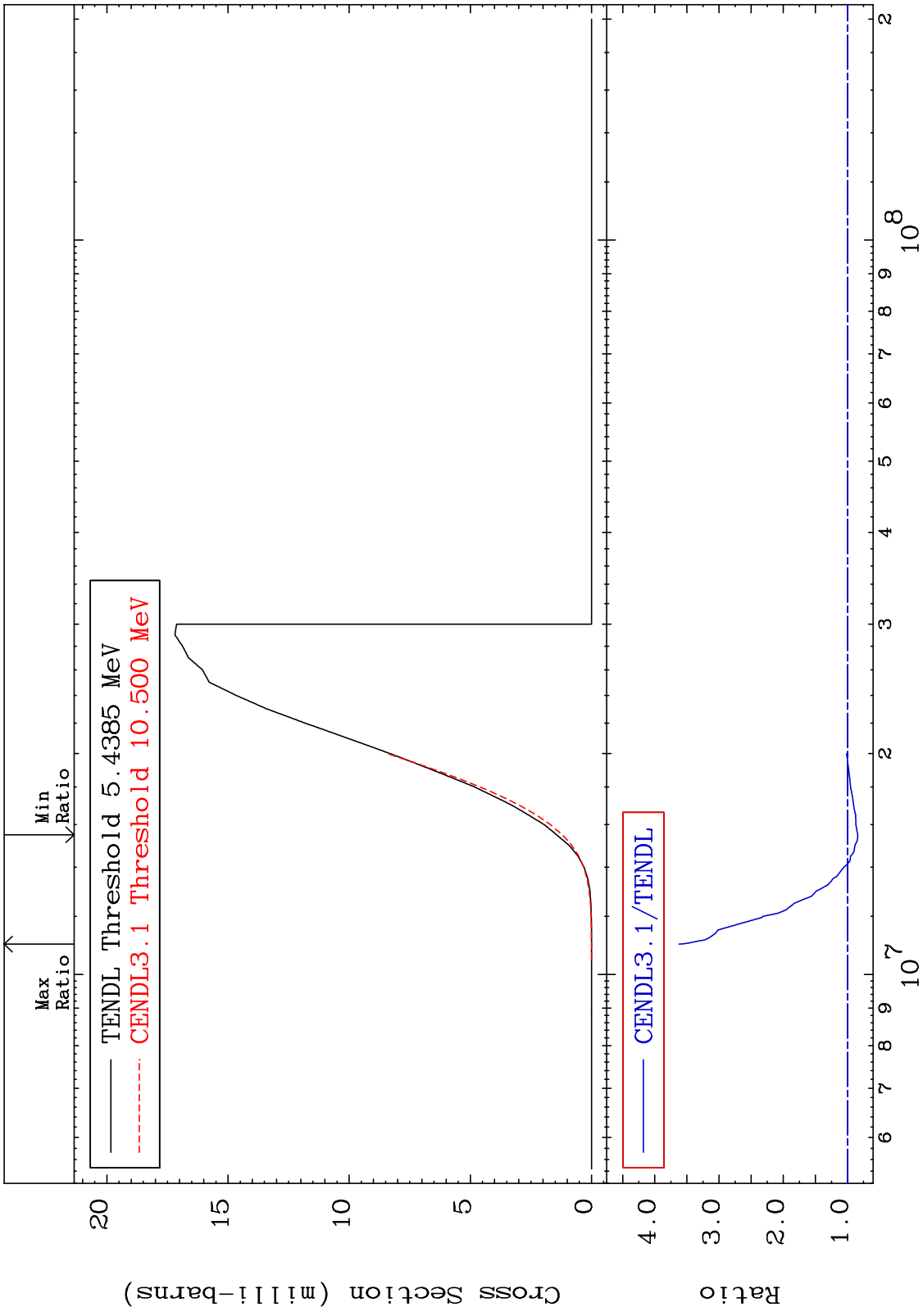
MAT 6431

(n,p)

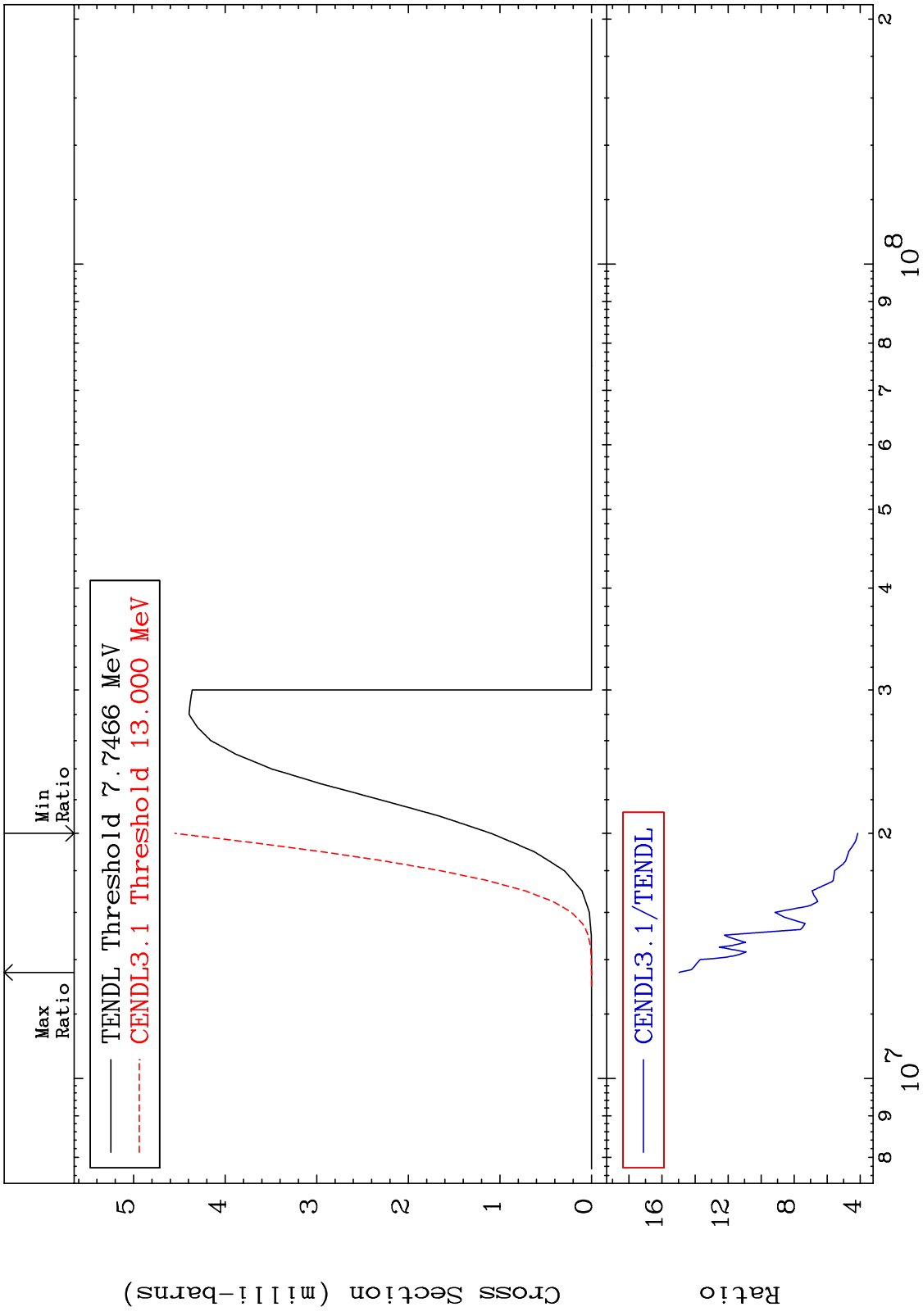
64-Gd-154  
230.3 To 1672. %



MAT 6431 (n,d) Cross Section 64-Gd-154  
 -16.08 To 262.3 %

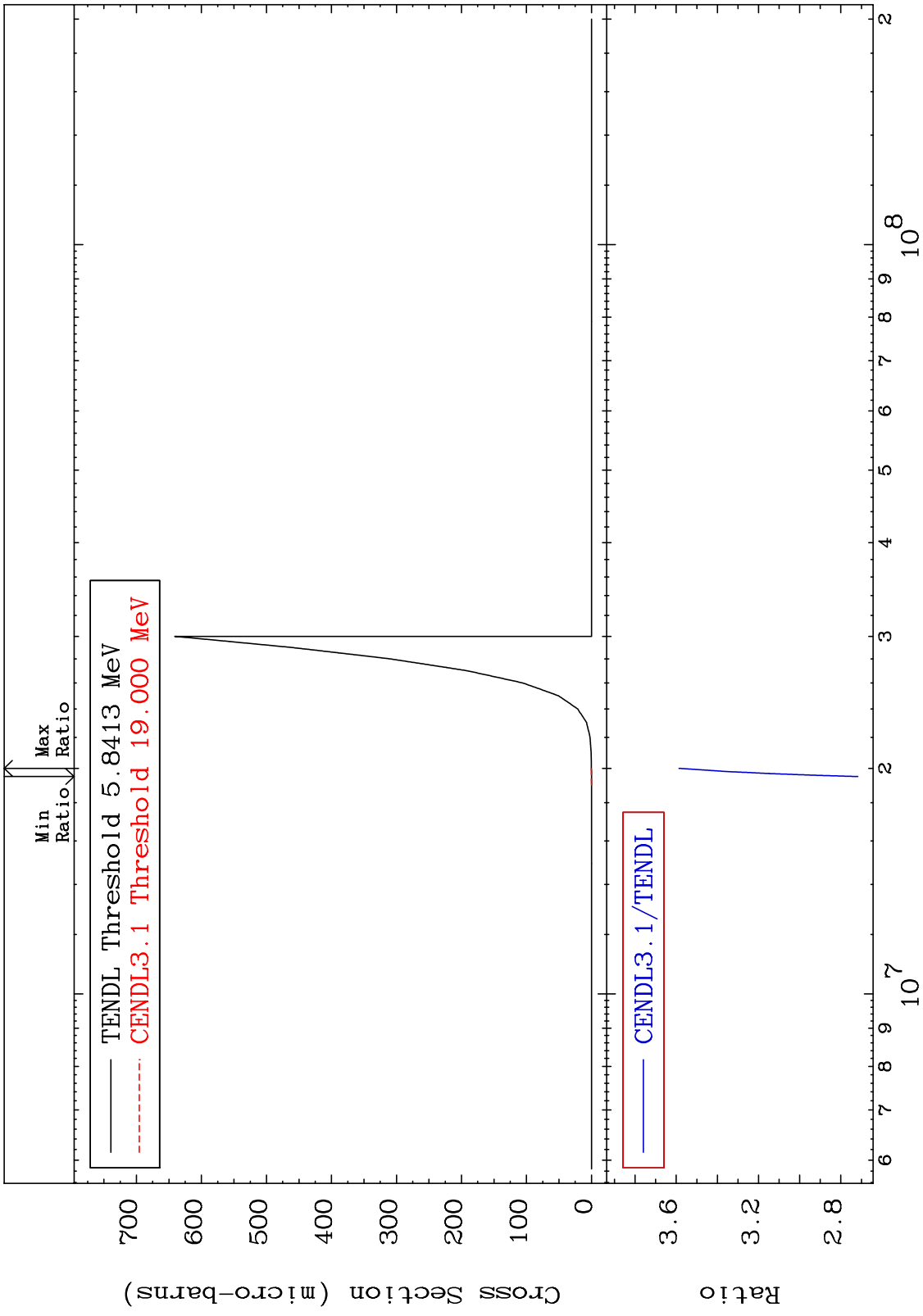


MAT 6431 (n,t) Cross Section 64-Gd-154 314.2 To 1397. %



20 64-Gd-154

MAT 6431 (n, He-3) Cross Section 64-Gd-154 171.7 To 258.6 %



21 64-Gd-154 Incident Energy (eV)

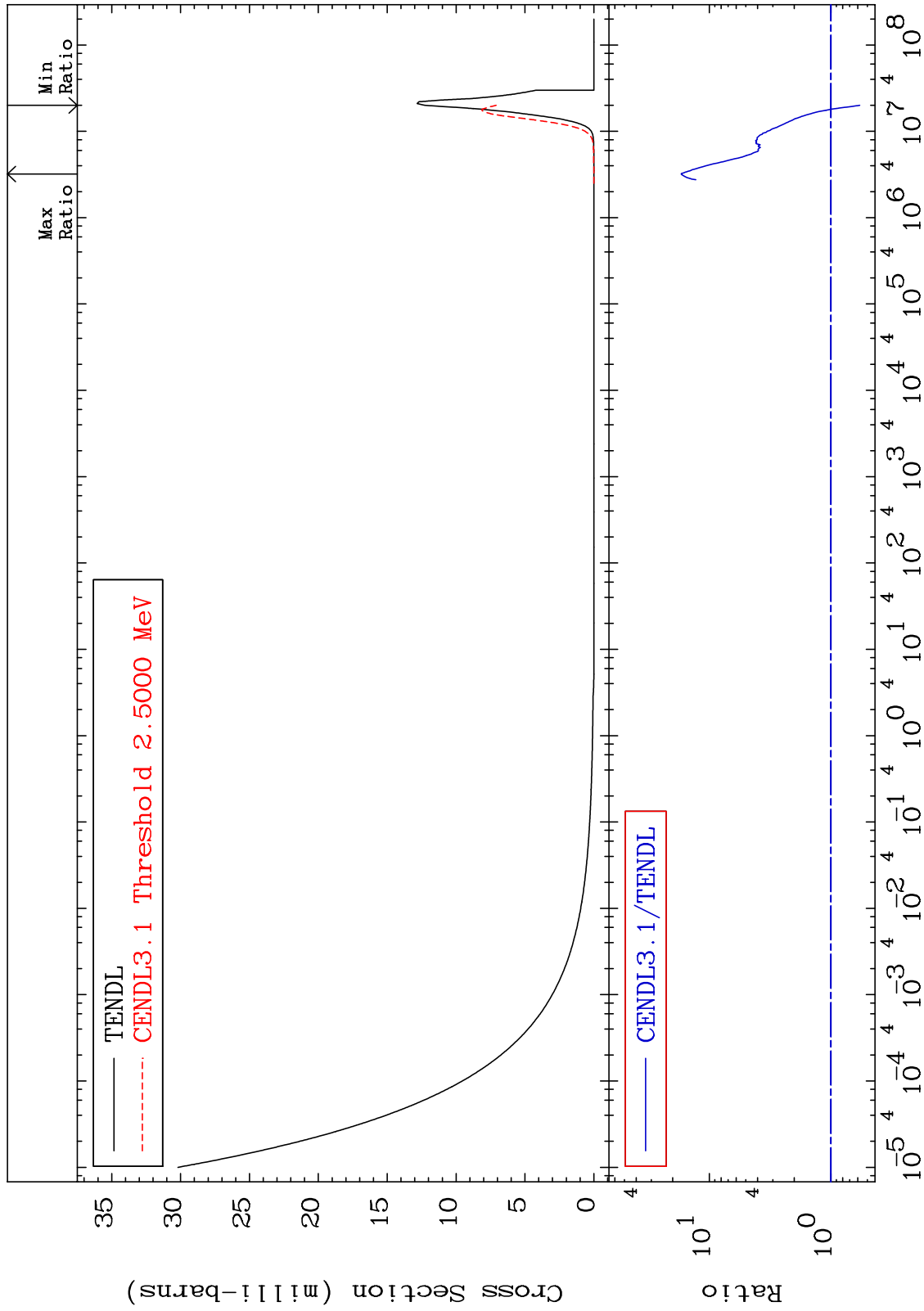
MAT 6431

(n,  $\alpha$ )

64-Gd-154

Cross Section

-42.22 To 1602. %



22

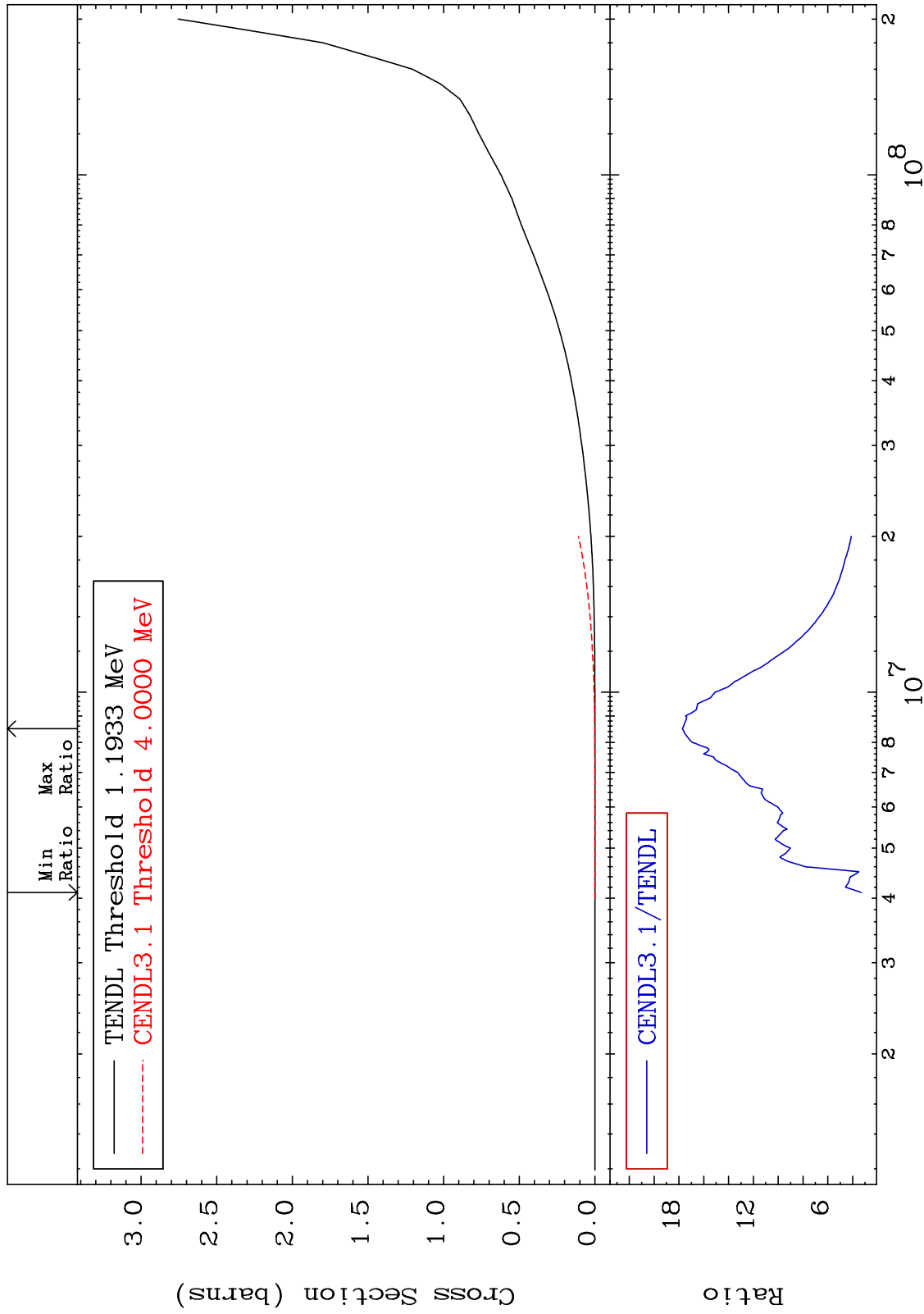
Incident Energy (eV)

64-Gd-154

MAT 6431

Hydrogen Production  
Cross Section

64-Gd-154  
230.3 To 1672. %



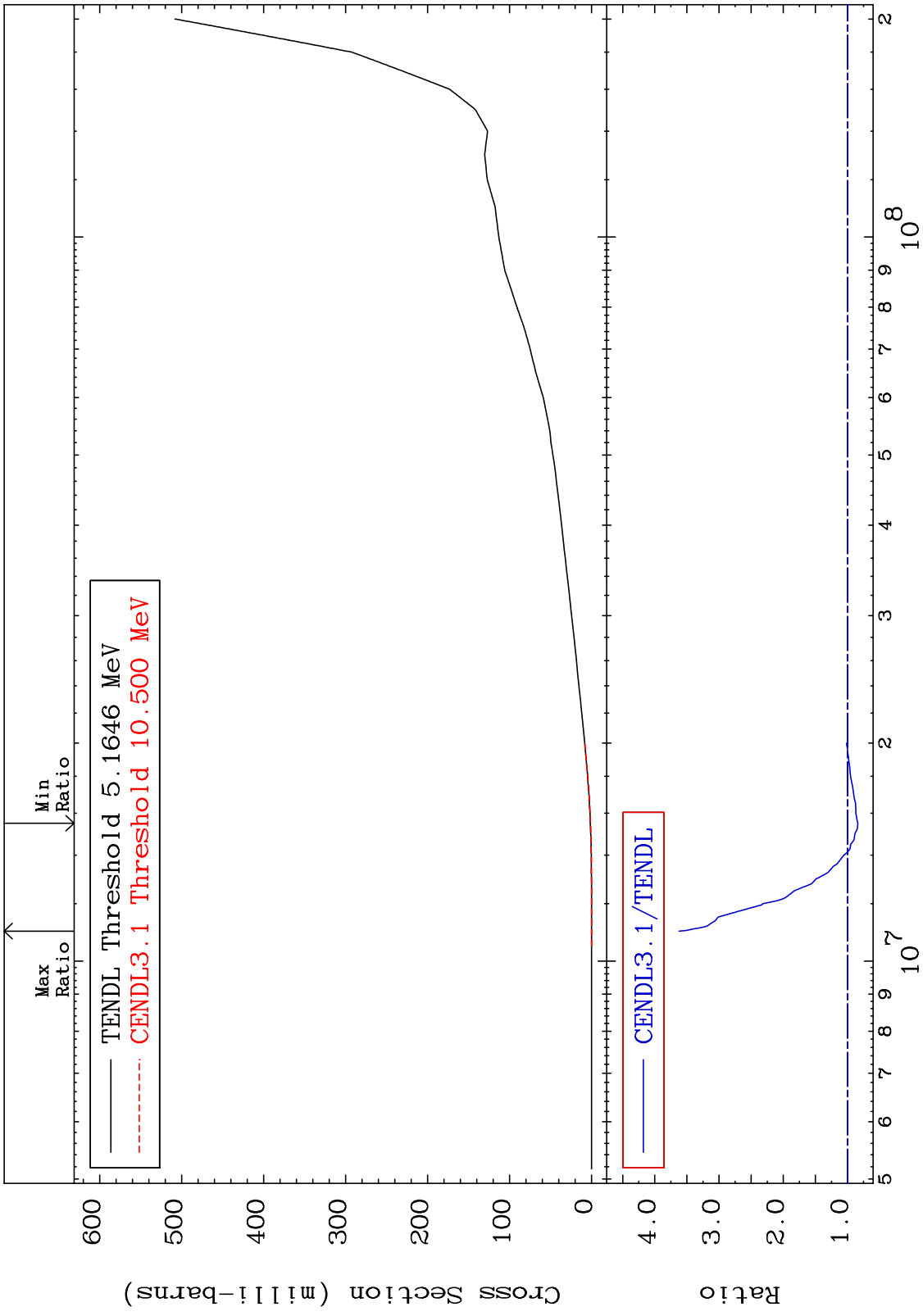
23

Incident Energy (eV)

64-Gd-154



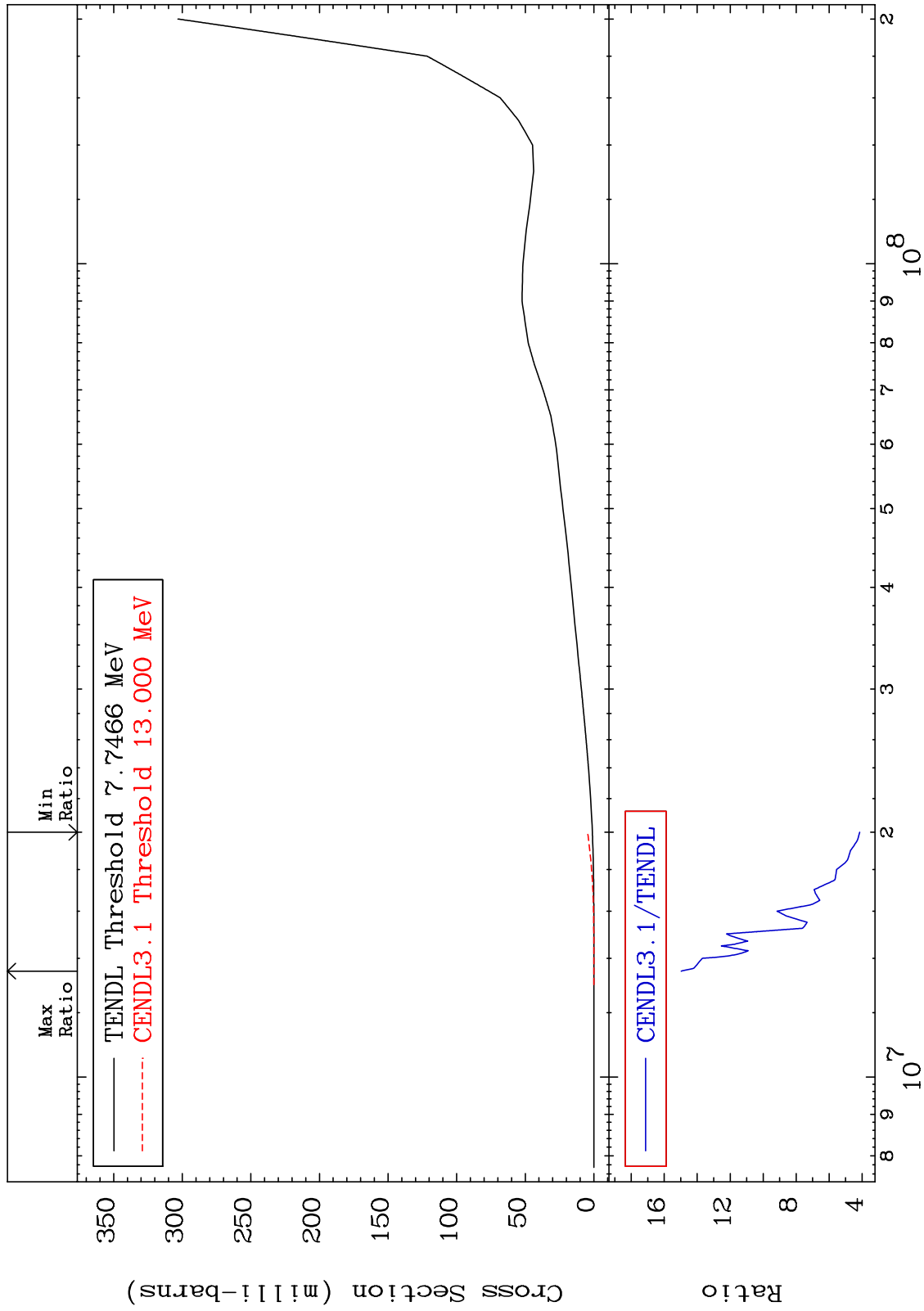
MAT 6431 Deuterium Production Cross Section 64-Gd-154 -16.08 To 262.3 %



MAT 6431

Tritium Production  
Cross Section

64-Gd-154  
314.0 To 1397. %



25

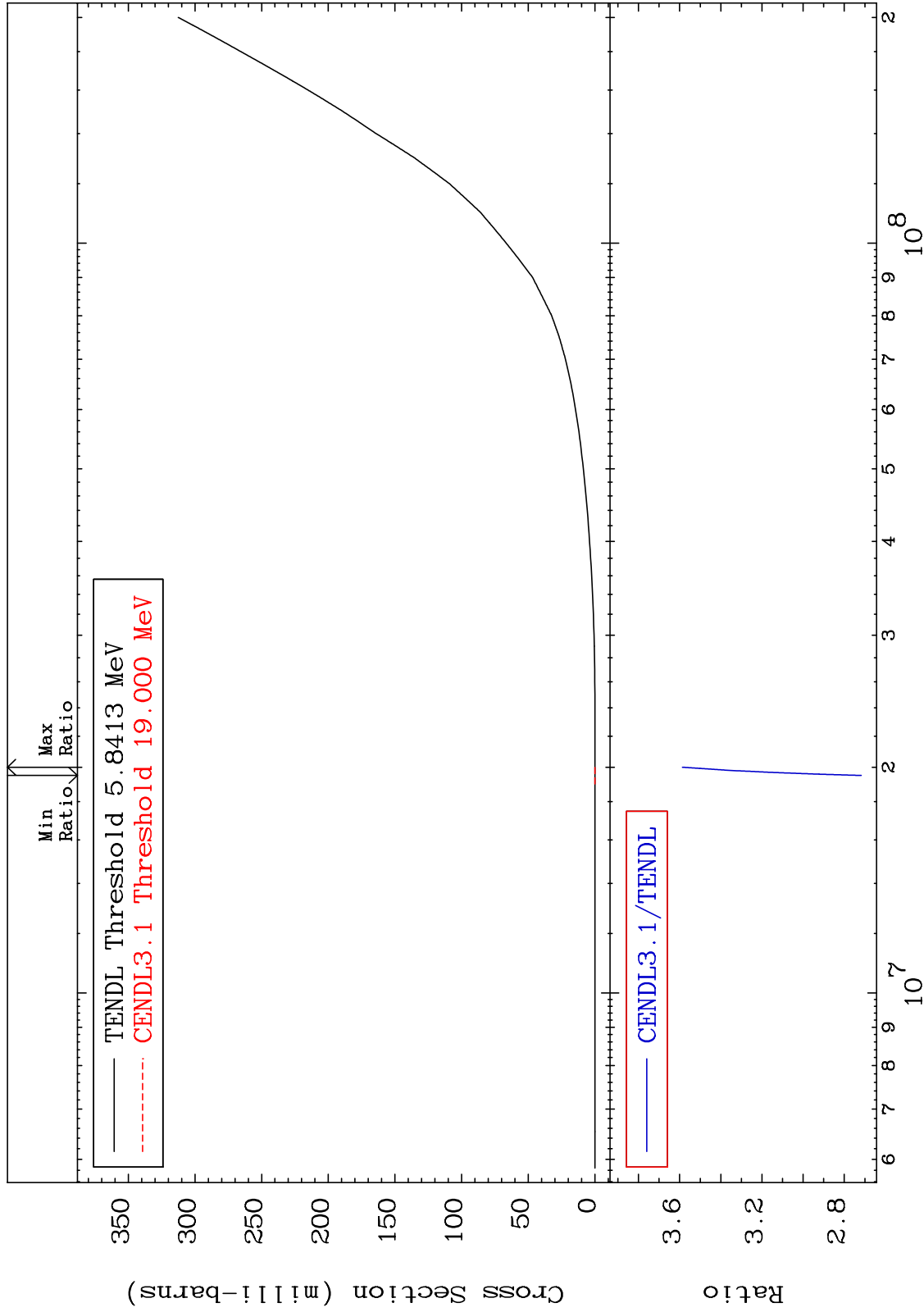
Incident Energy (eV)

64-Gd-154

MAT 6431

He-3 Production  
Cross Section

64-Gd-154  
171.7 To 258.6 %



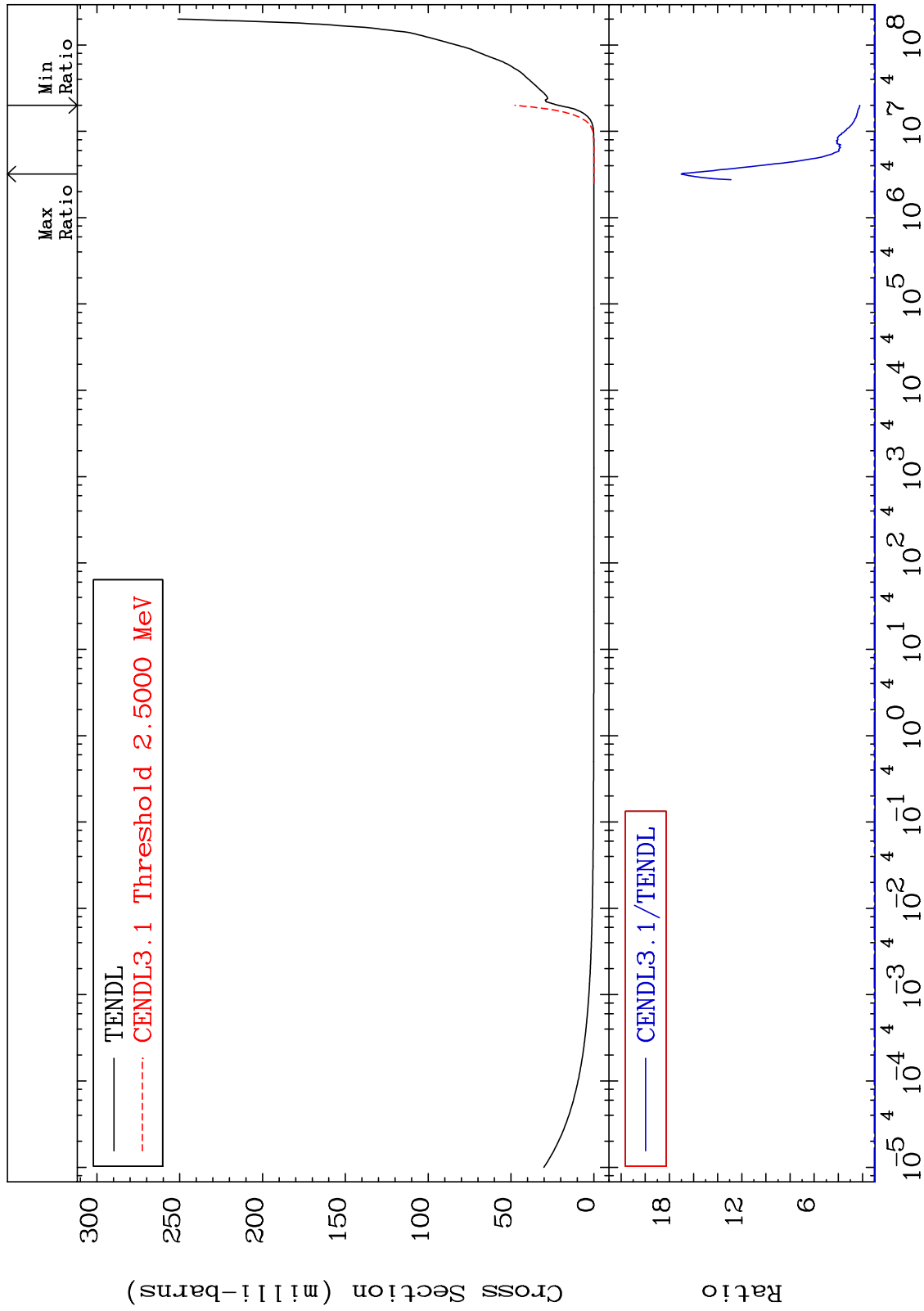
26

64-Gd-154

MAT 6431

He-4 Production  
Cross Section

64-Gd-154  
122.4 To 1602. %

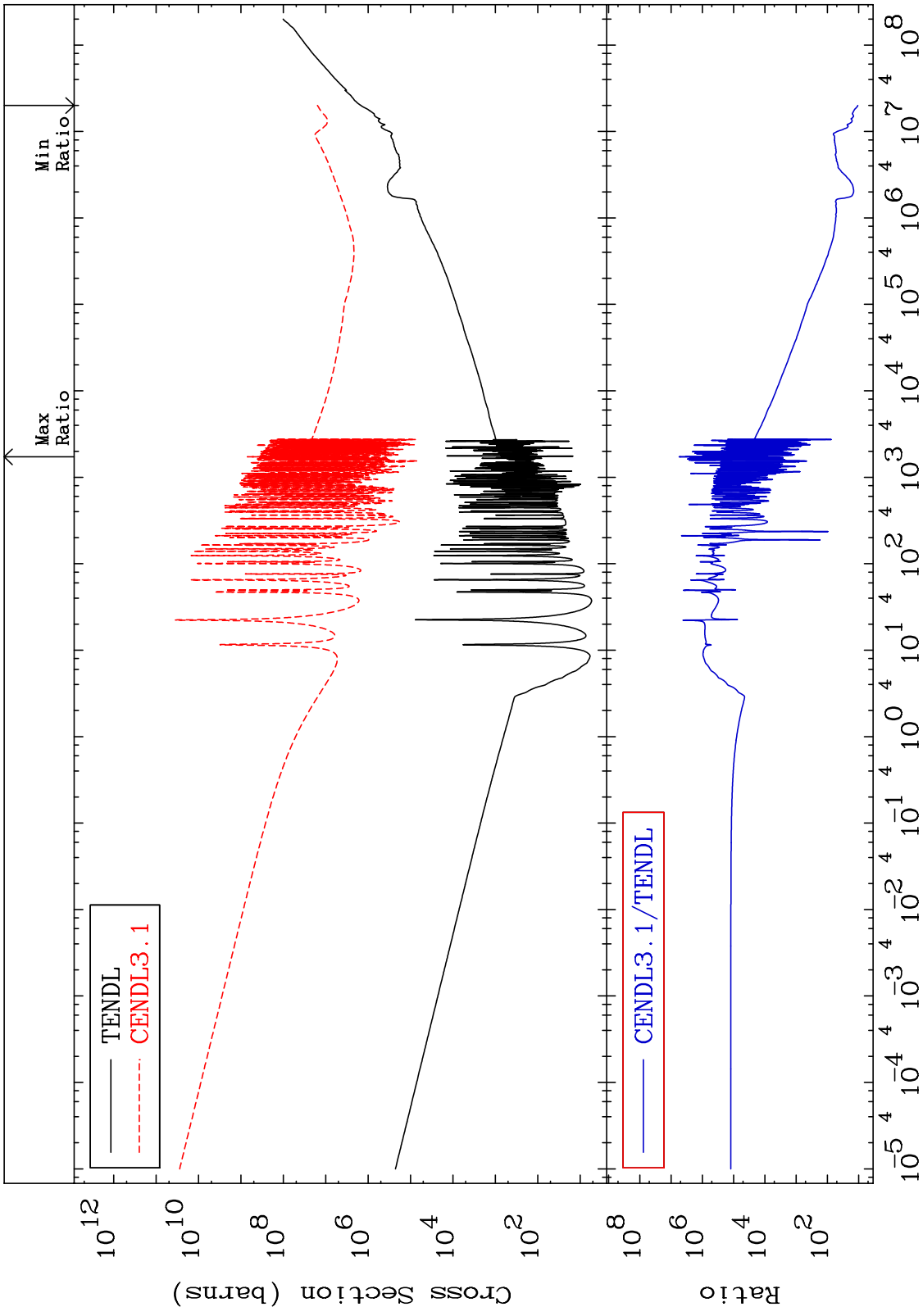


27

Incident Energy (eV)

64-Gd-154

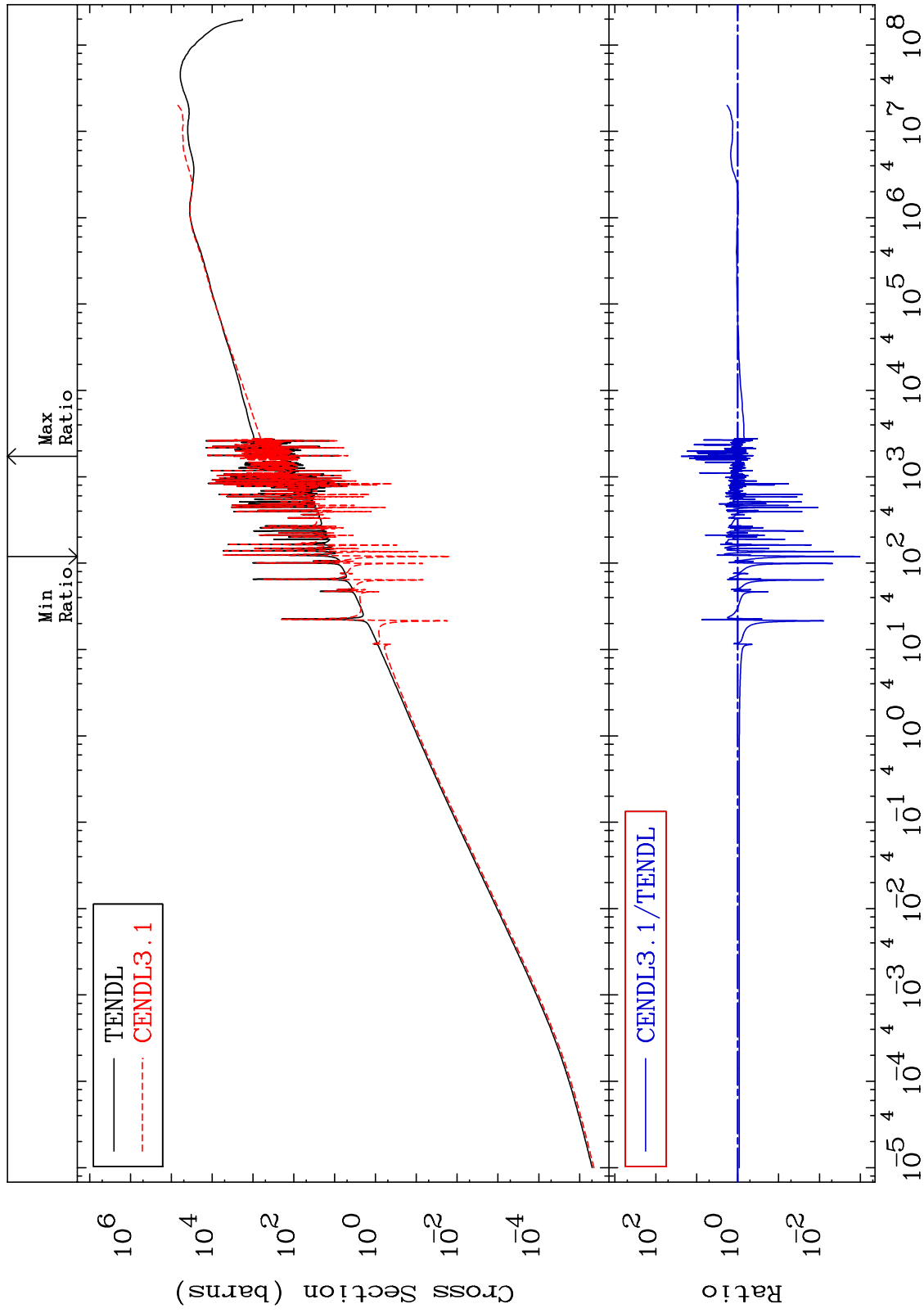
MAT 6431      Kerma total (eV-barns)  
 Cross Section      64-Gd-154  
 966.6    To 9999. %



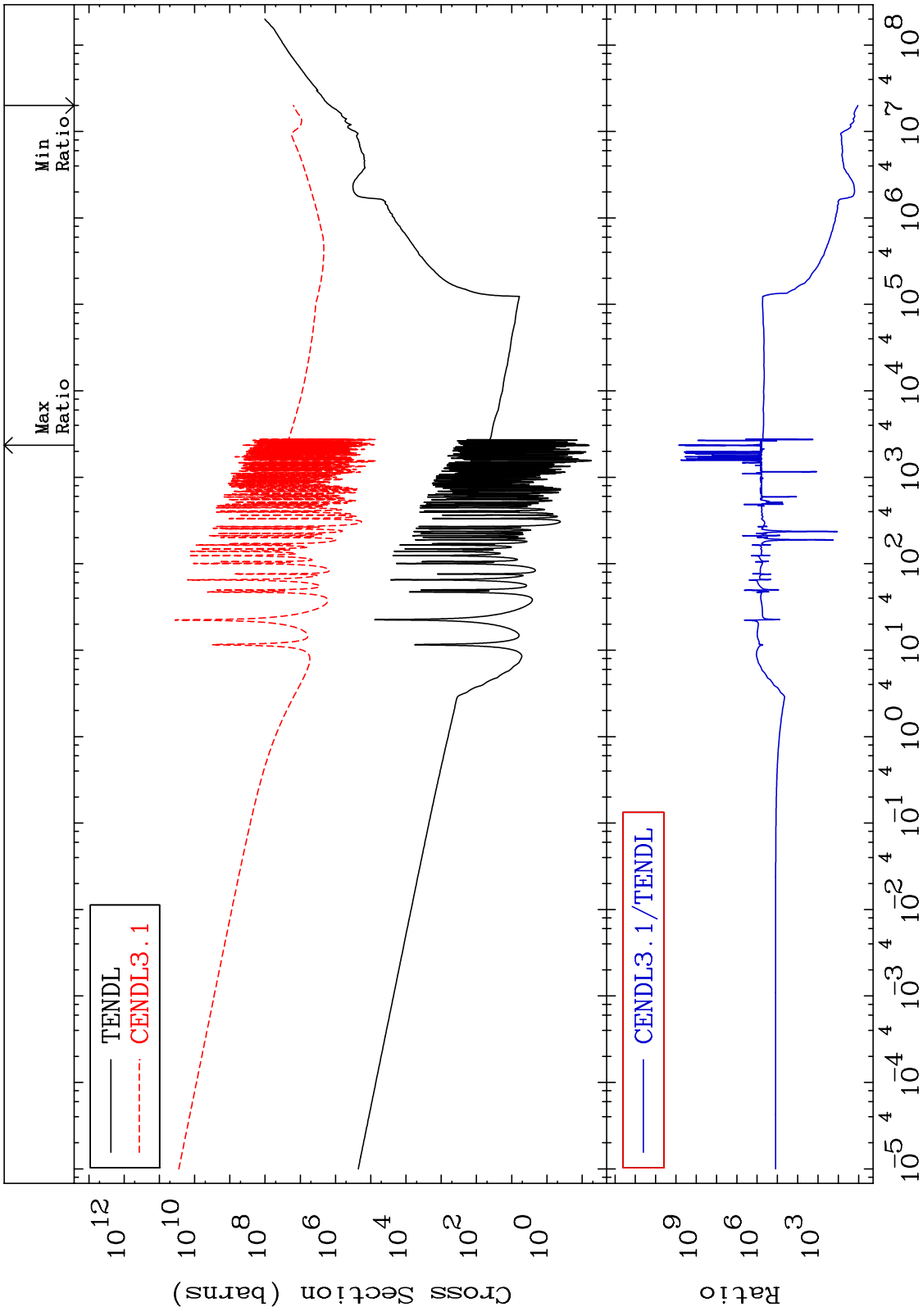
MAT 6431

Kerma elastic  
Cross Section

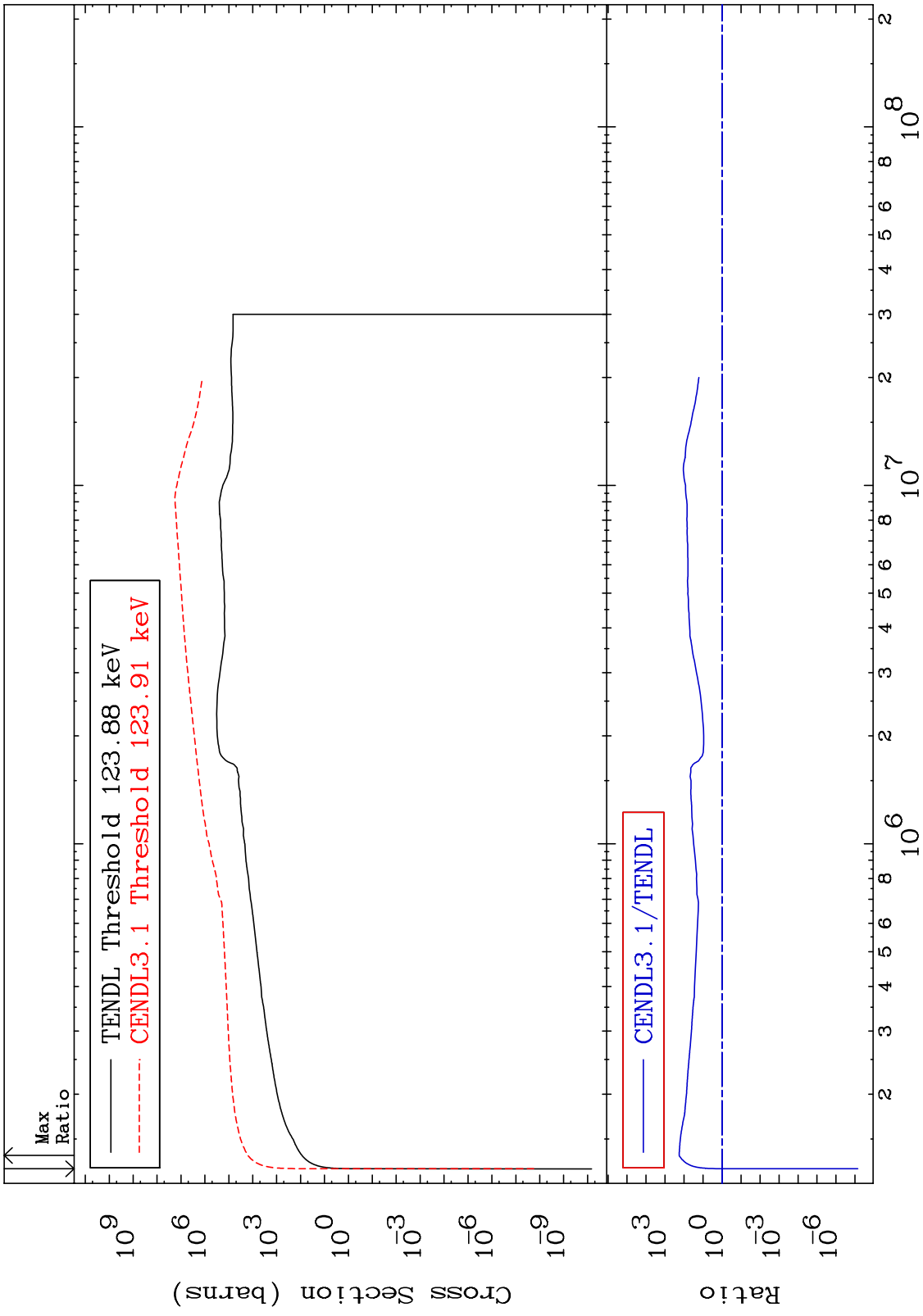
64-Gd-154  
-99.90 To 2285. %



MAT 6431 Kerma non-elastic (all but mt2) Cross Section 64-Gd-154 990.3 To 9999. %



MAT 6431 Kerma inelastic (mt51-91) 64-Gd-154  
 Cross Section -100.0 To 9999. %

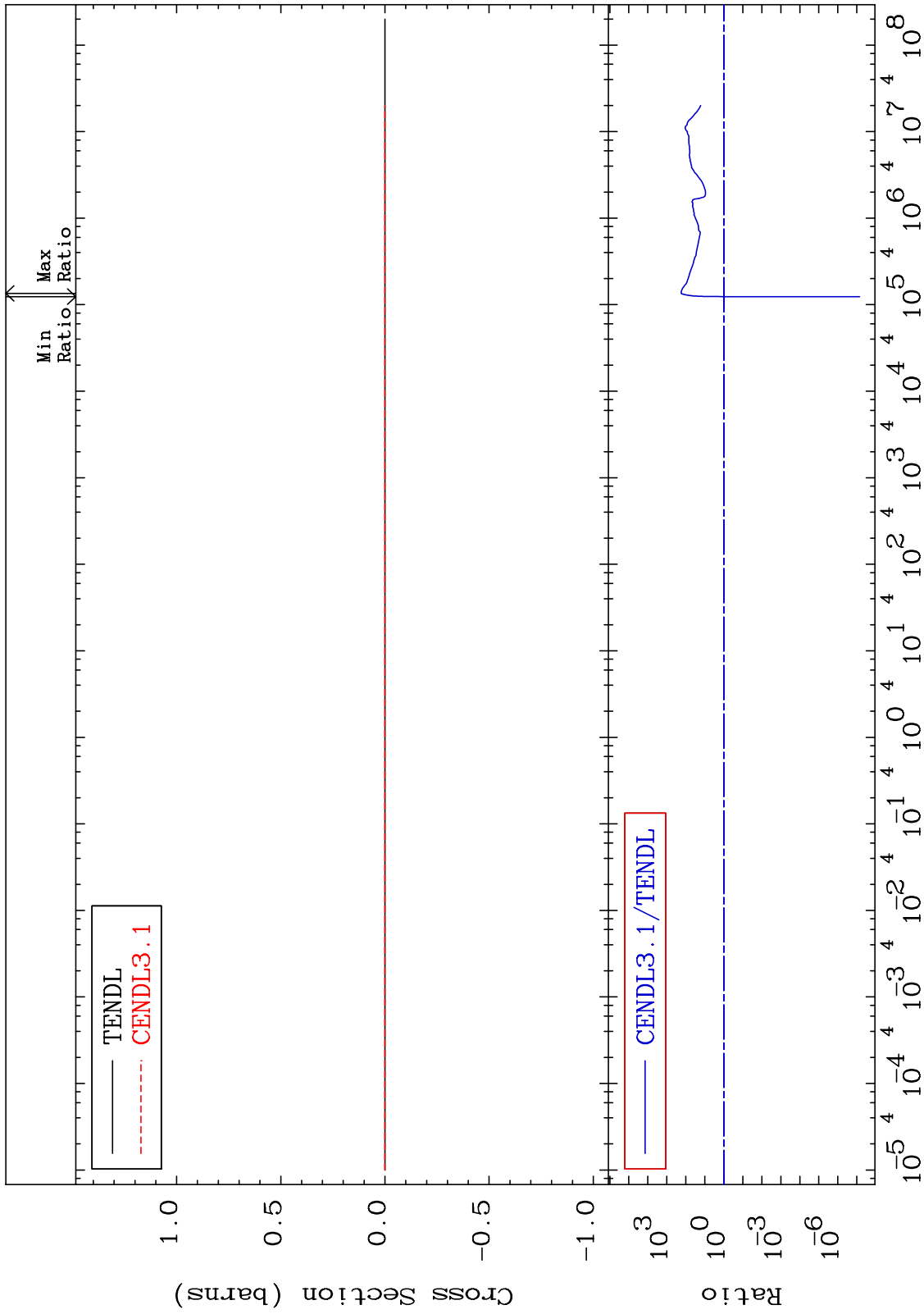




MAT 6431

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

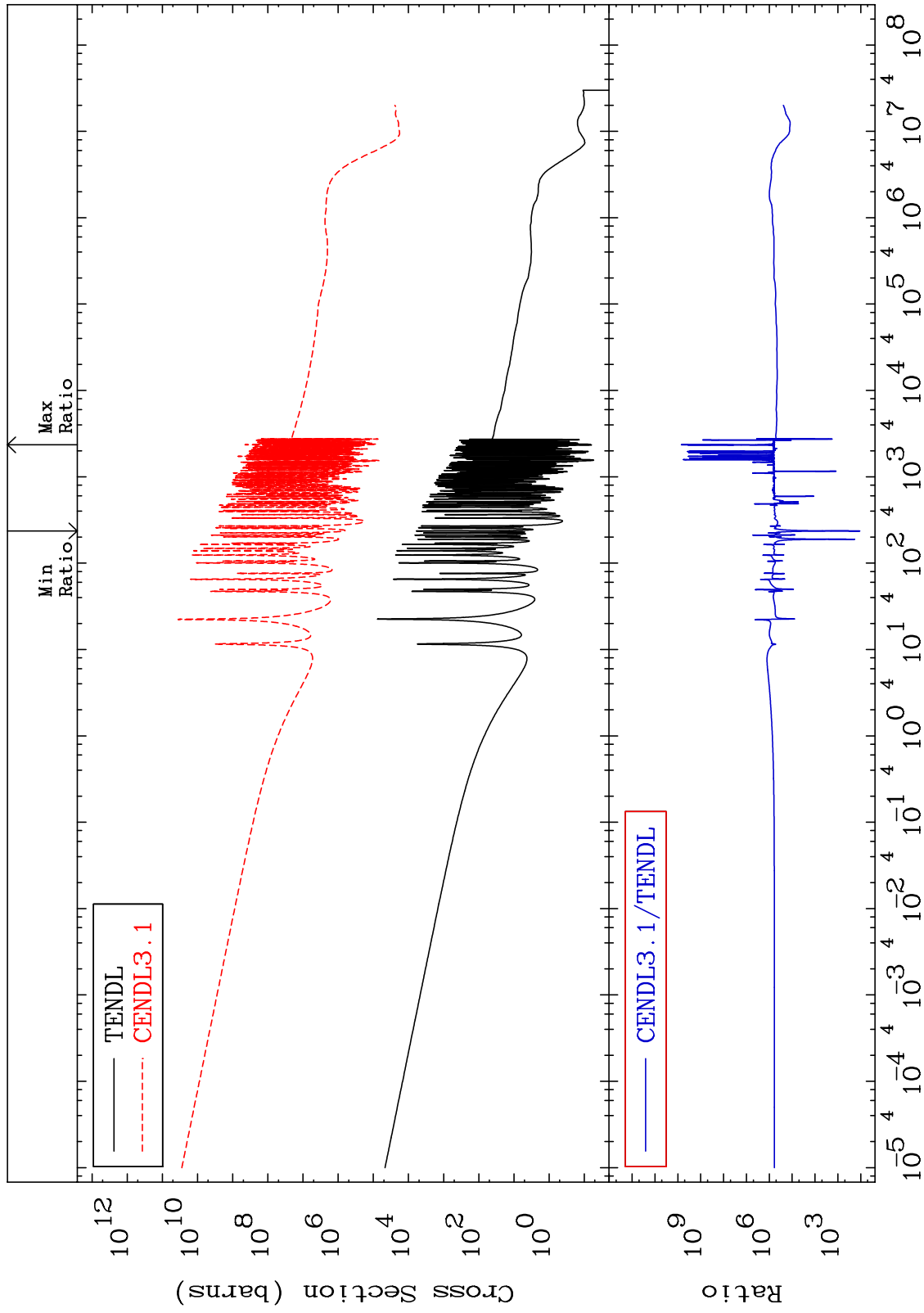
64-Gd-154  
-100.0 To 9999. %



MAT 6431

Kerma capture (mt102)  
Cross Section

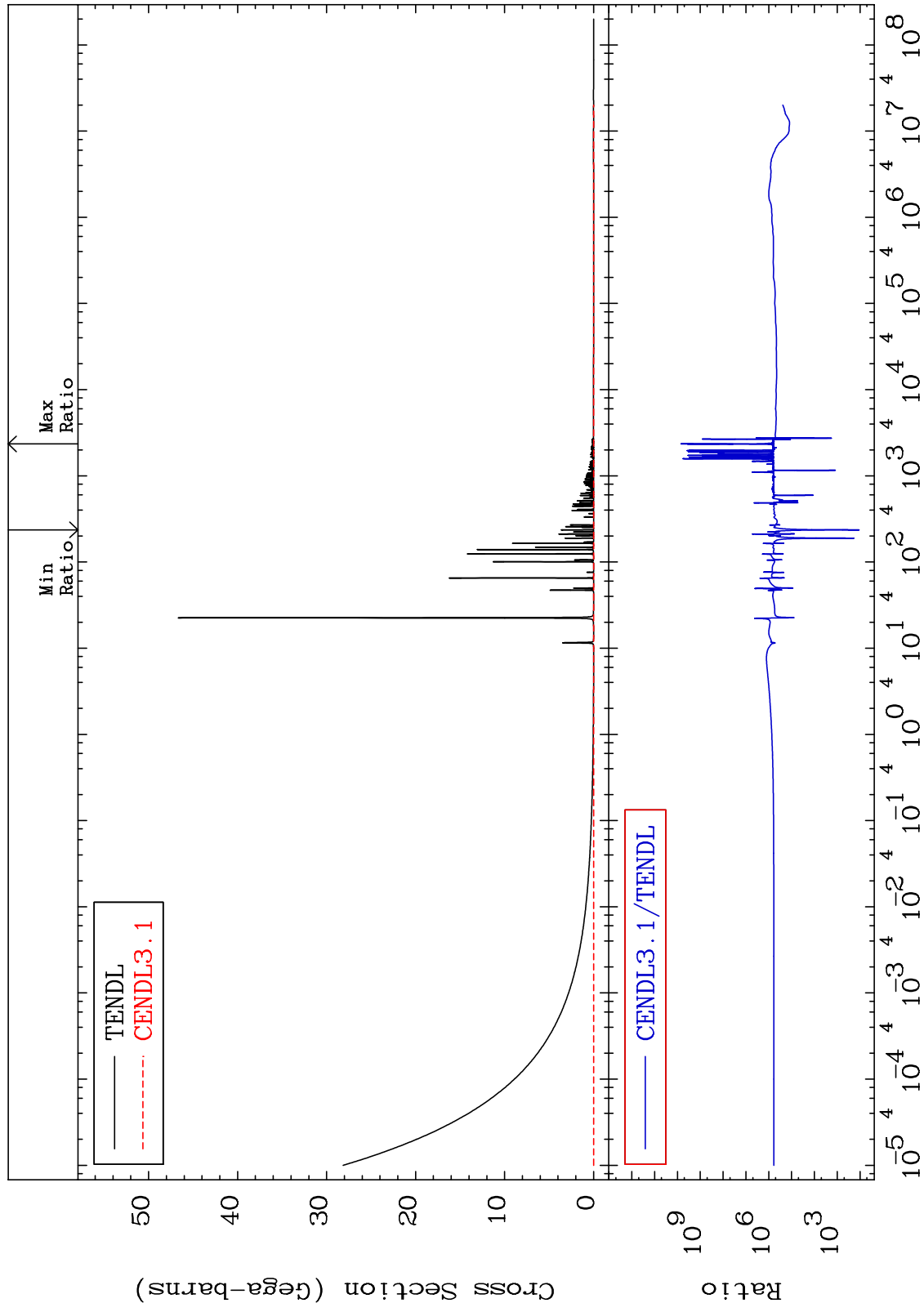
64-Gd-154  
9999. To 9999. %



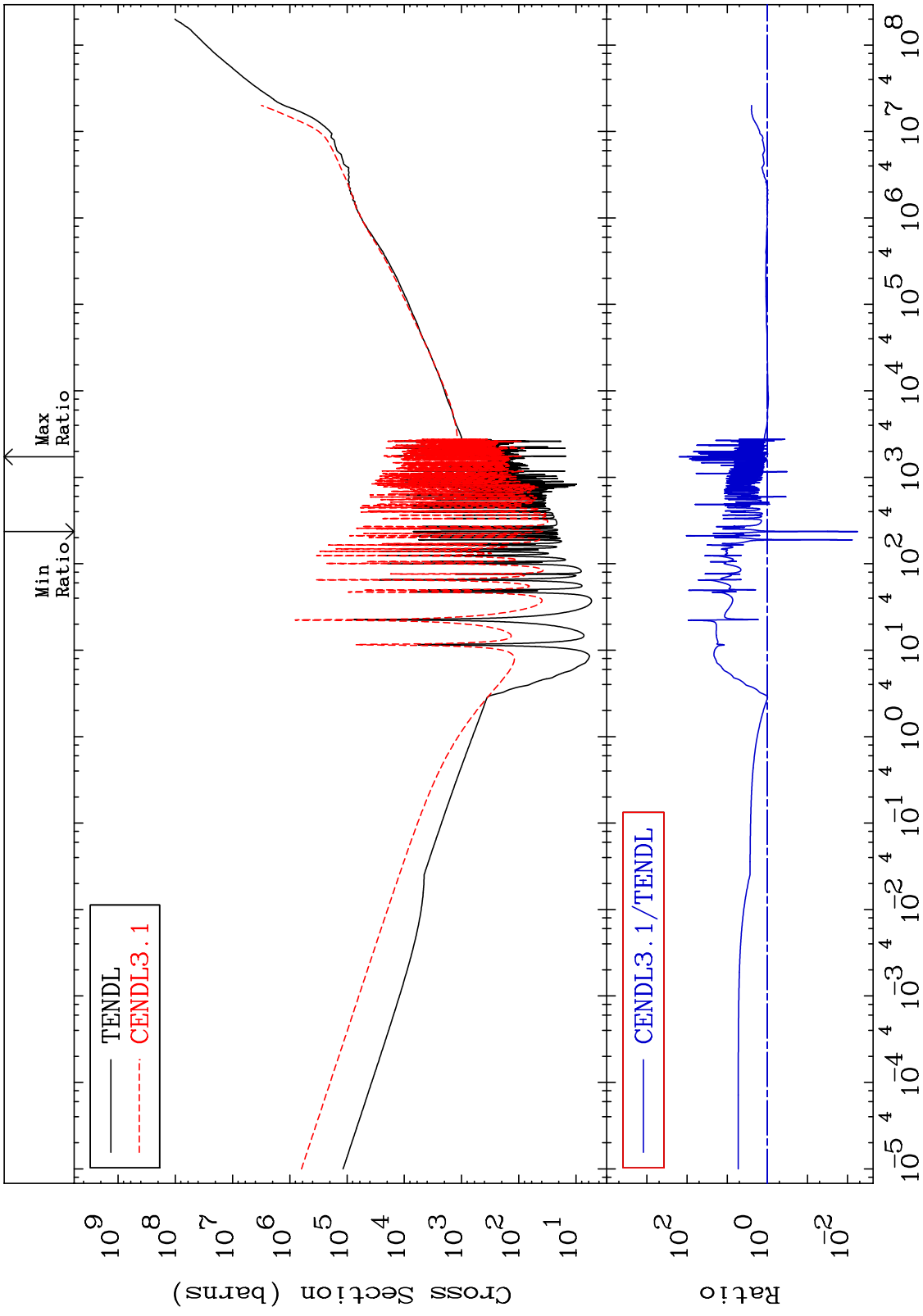
MAT 6431

Total photon (eV-barns)  
Cross Section

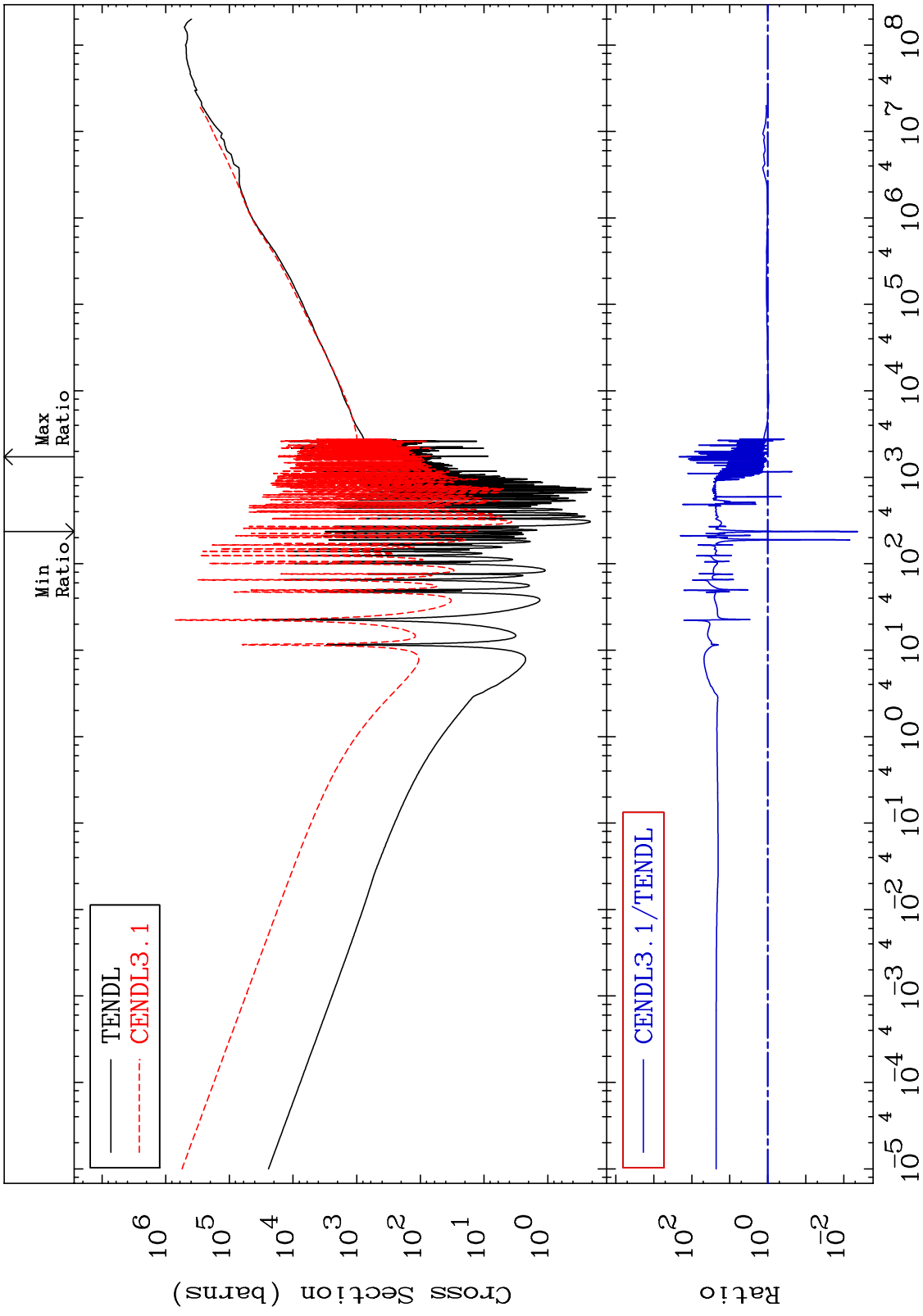
64-Gd-154  
9999. To 9999. %



MAT 6431 Total kinematic kerma (high limit) 64-Gd-154  
 Cross Section -99.44 To 9999. %



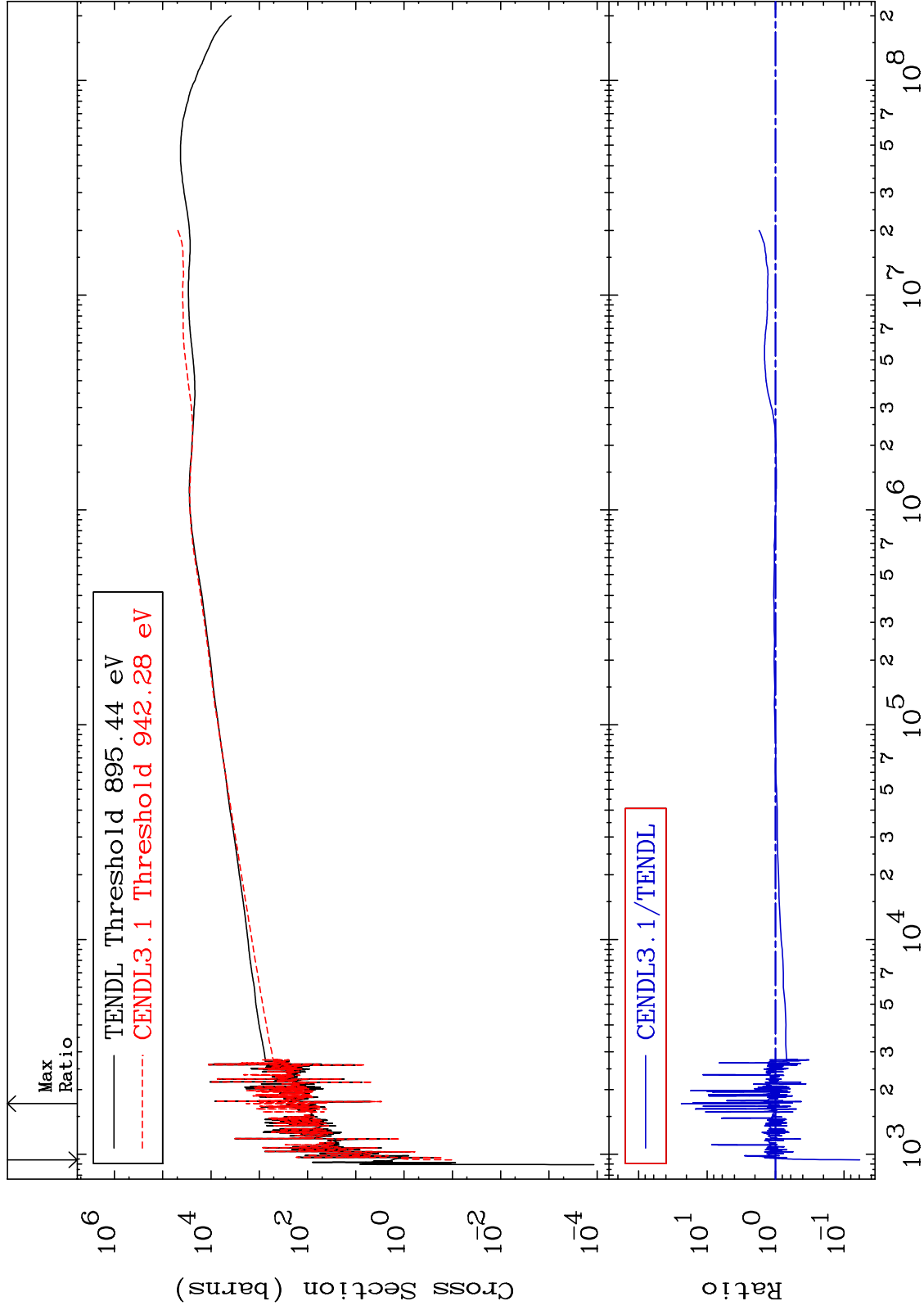
MAT 6431      Dpa total (eV-barns)      64-Gd-154  
 -99.57 To 9999. %



MAT 6431

Dpa elastic (mt2)  
Cross Section

64-Gd-154  
-94.10 To 2283. %



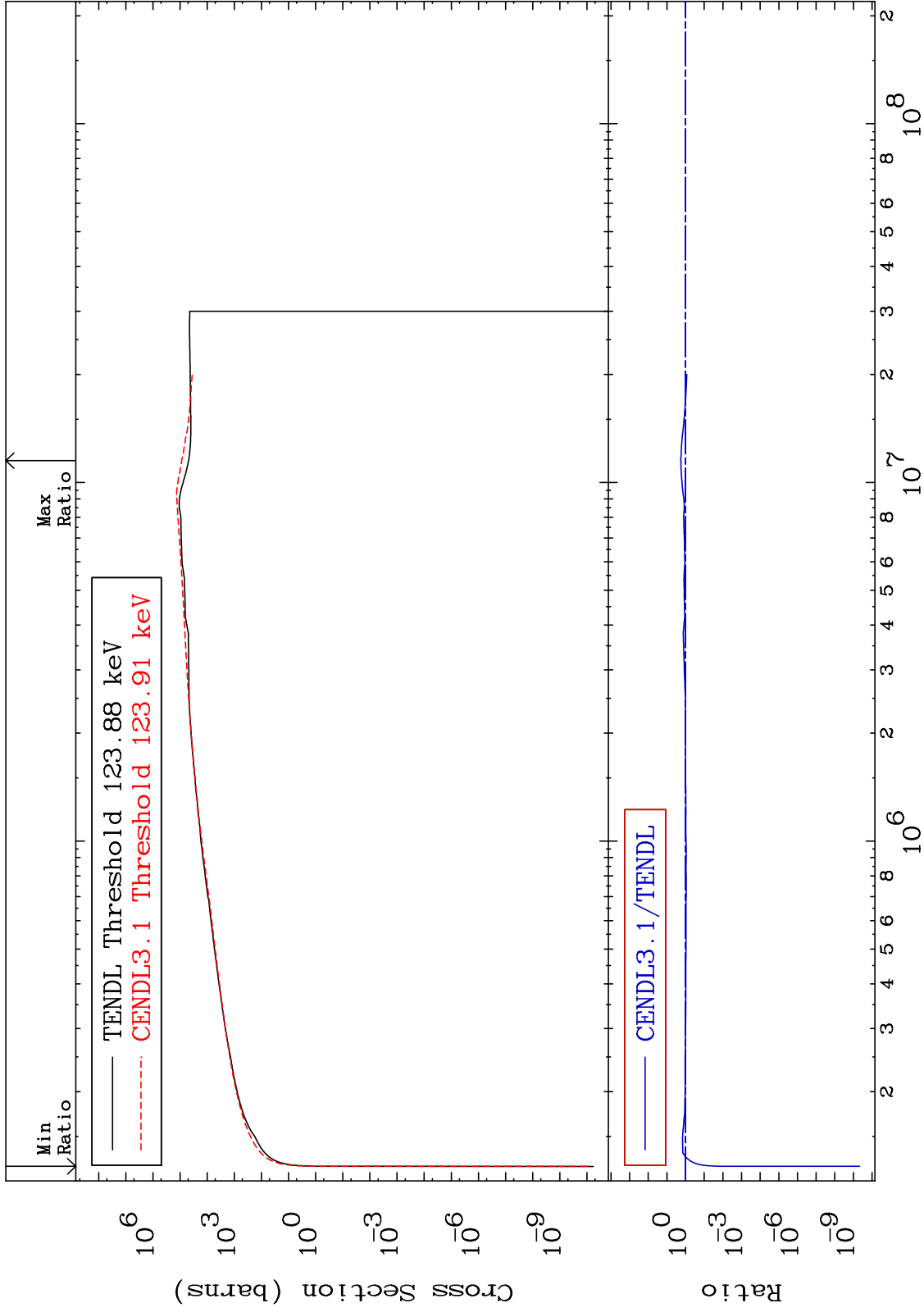
37

64-Gd-154

MAT 6431

Dpa inelastic (mt51-91)  
Cross Section

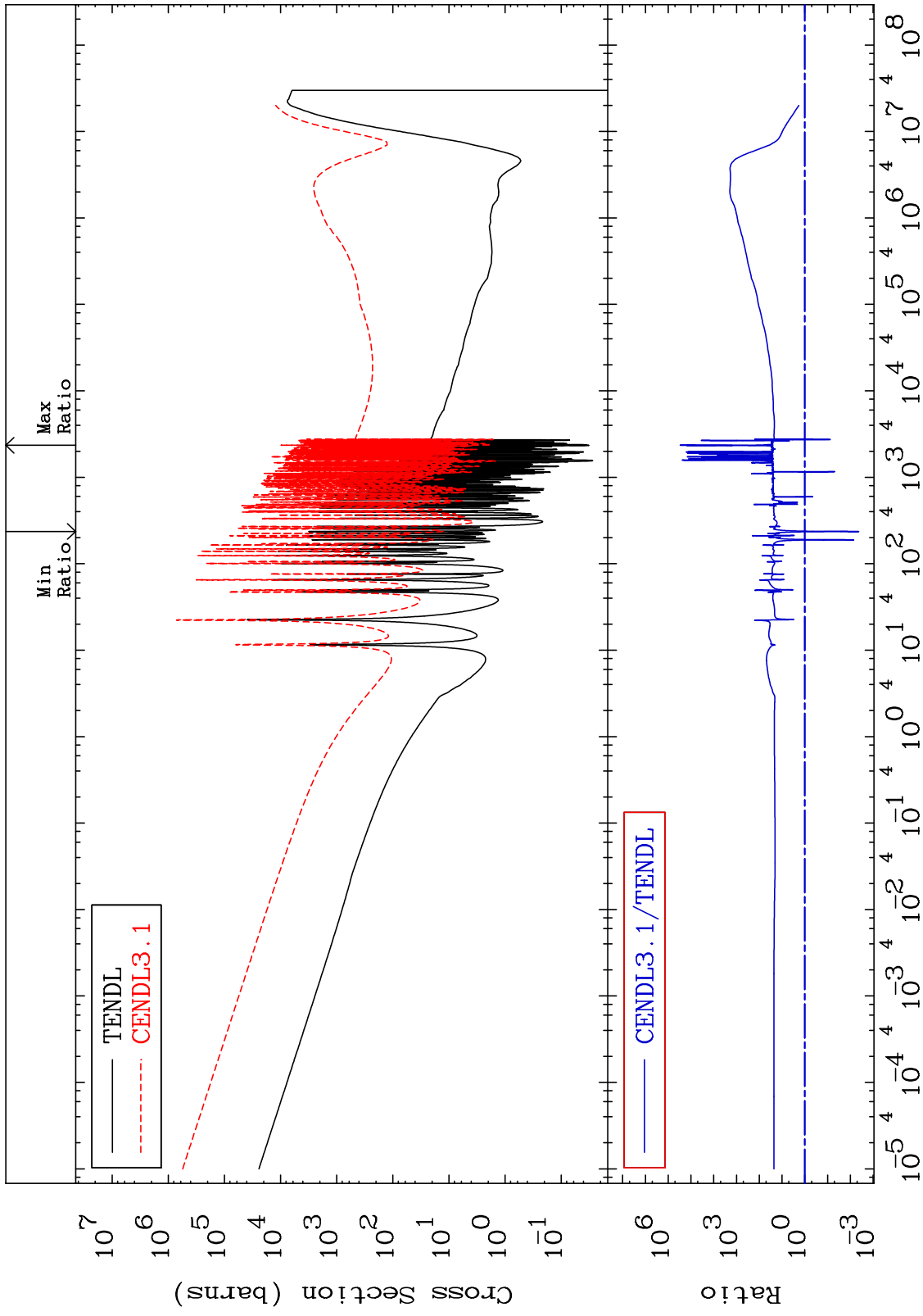
64-Gd-154  
-100.0 To 79.46 %



MAT 6431

Dpa disappearance (mt102 -120)  
Cross Section

64-Gd-154  
-99.57 To 9999. %





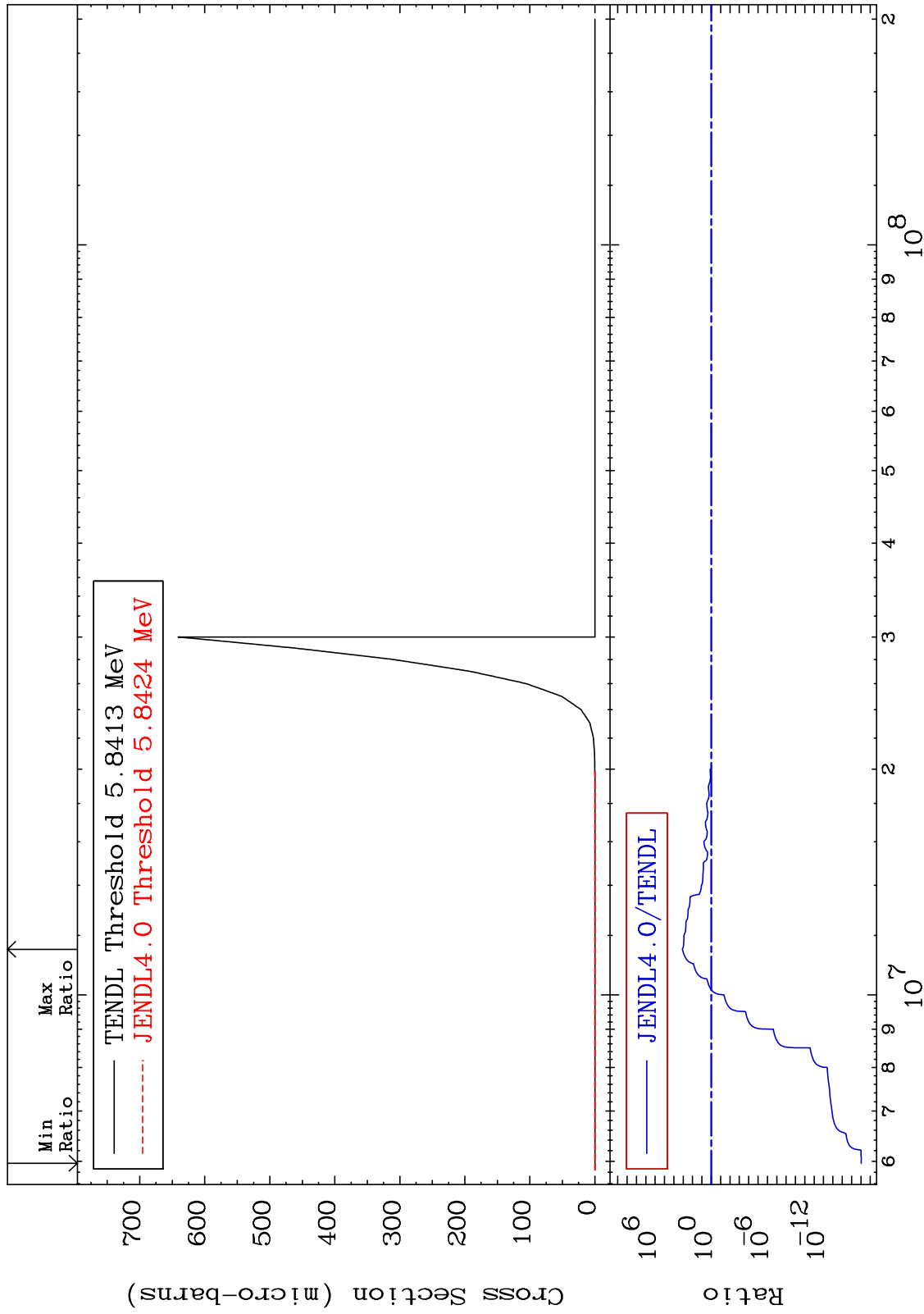
MAT 6431

(n, He-3)

64-Gd-154

-100.0 To 9999. %

Cross Section



40

Incident Energy (eV)

64-Gd-154

MAT 6431

(n,  $\alpha$ )

64-Gd-154

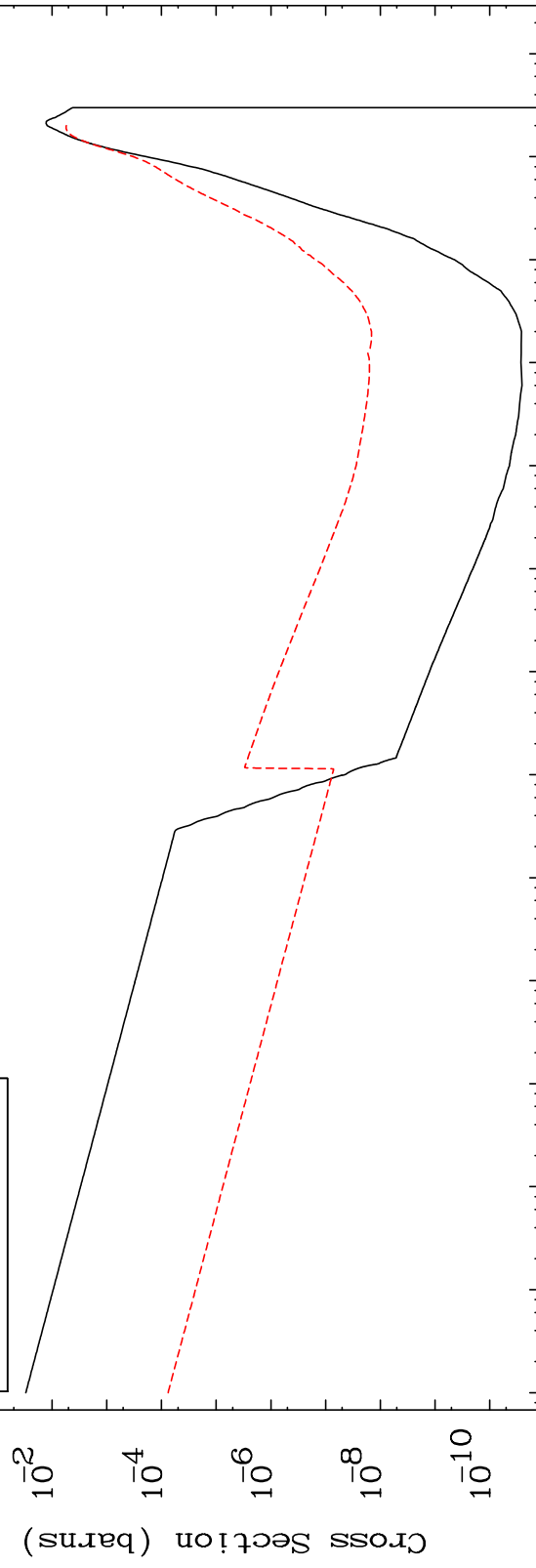
-99.75 To 9999. %

Cross Section

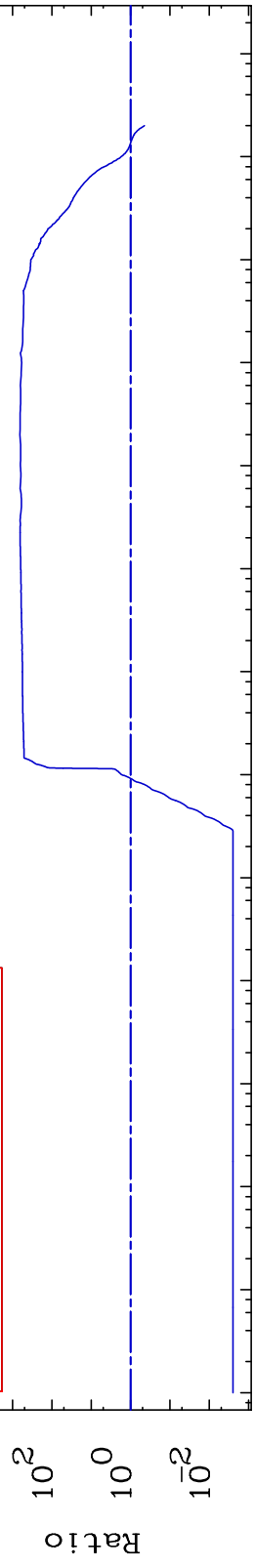
Min Ratio

Max Ratio

— TENDL  
- - - JENDL4.0



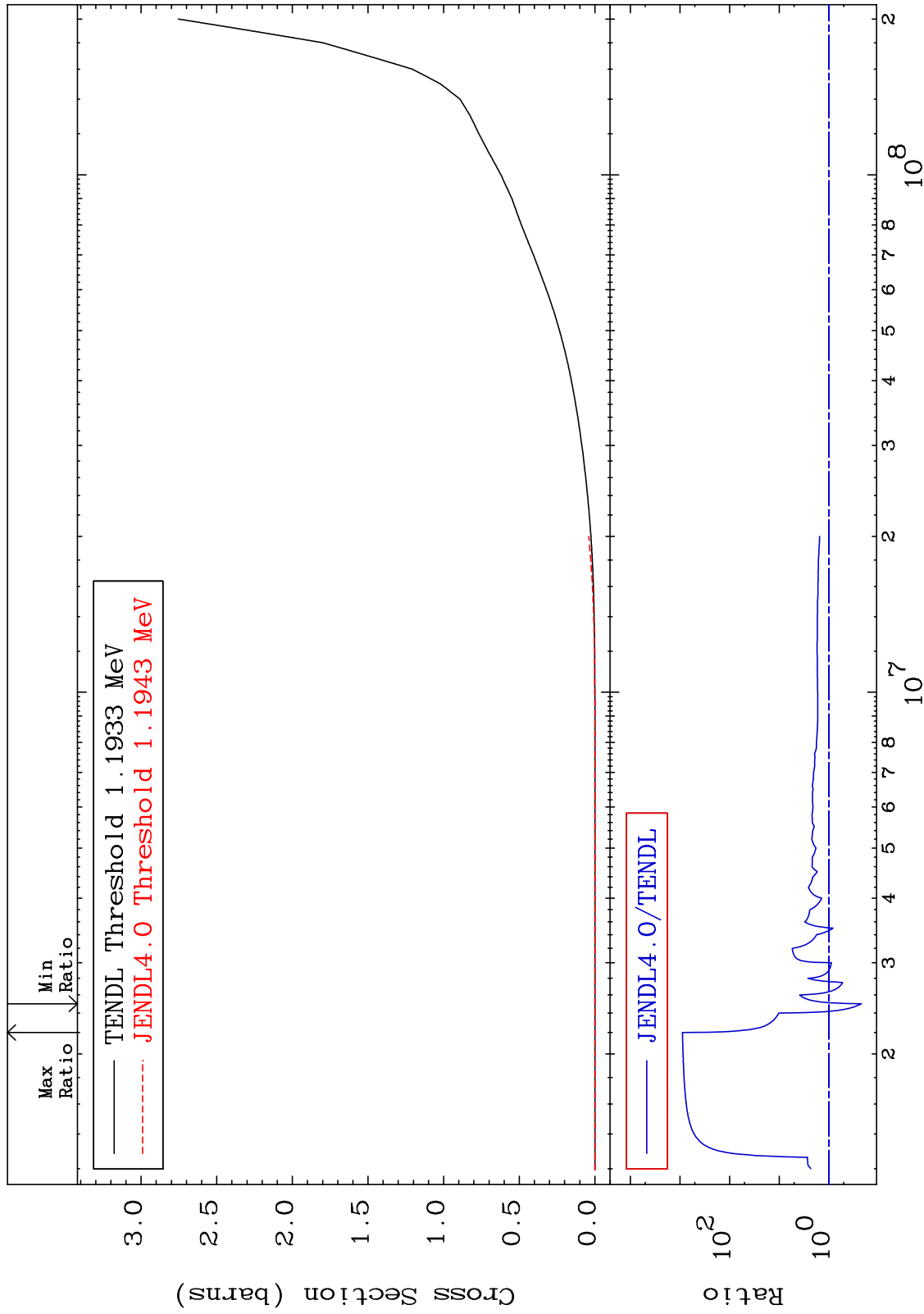
— JENDL4.0/TENDL

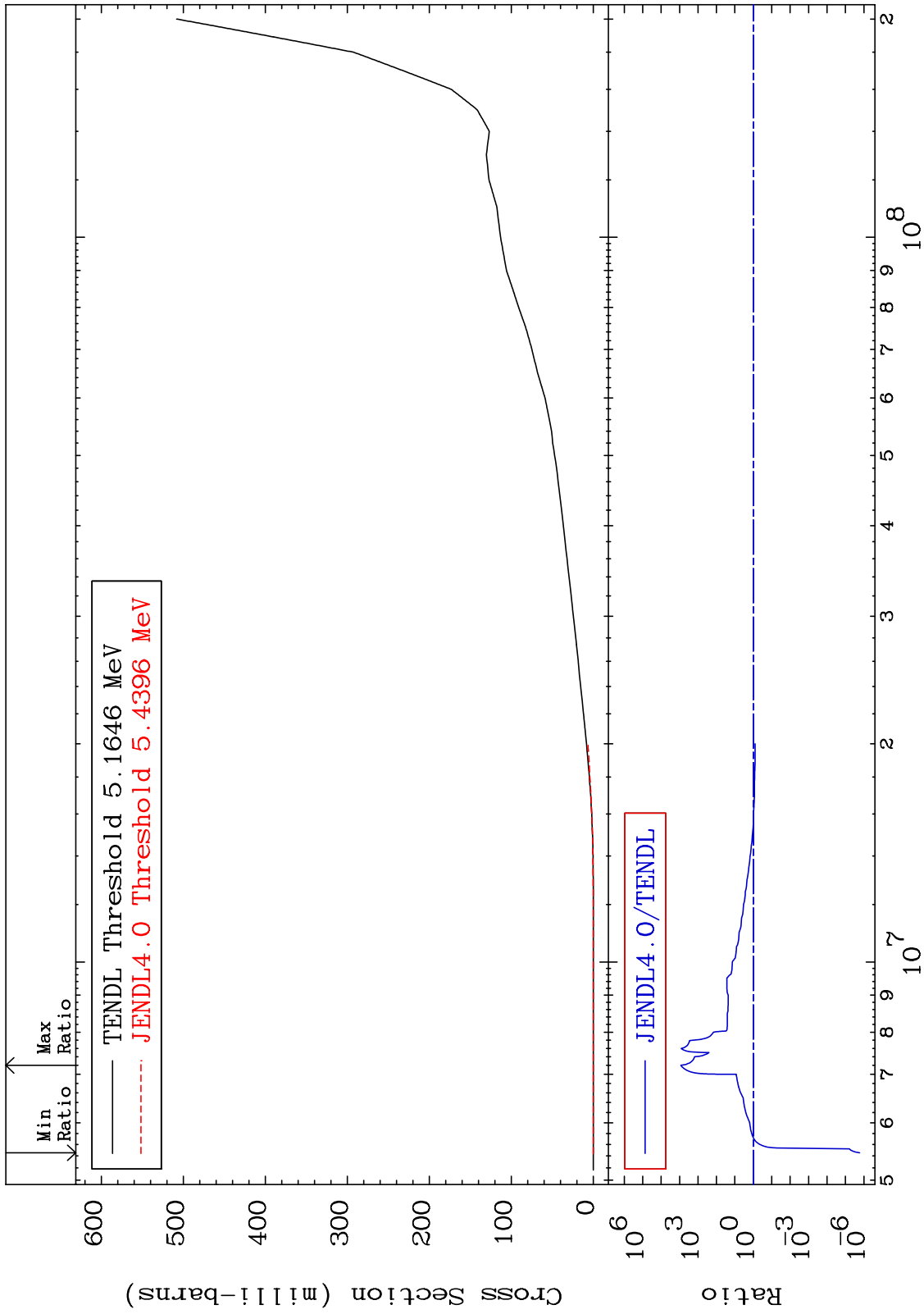


MAT 6431

Hydrogen Production  
Cross Section

64-Gd-154  
-77.82 To 9999. %

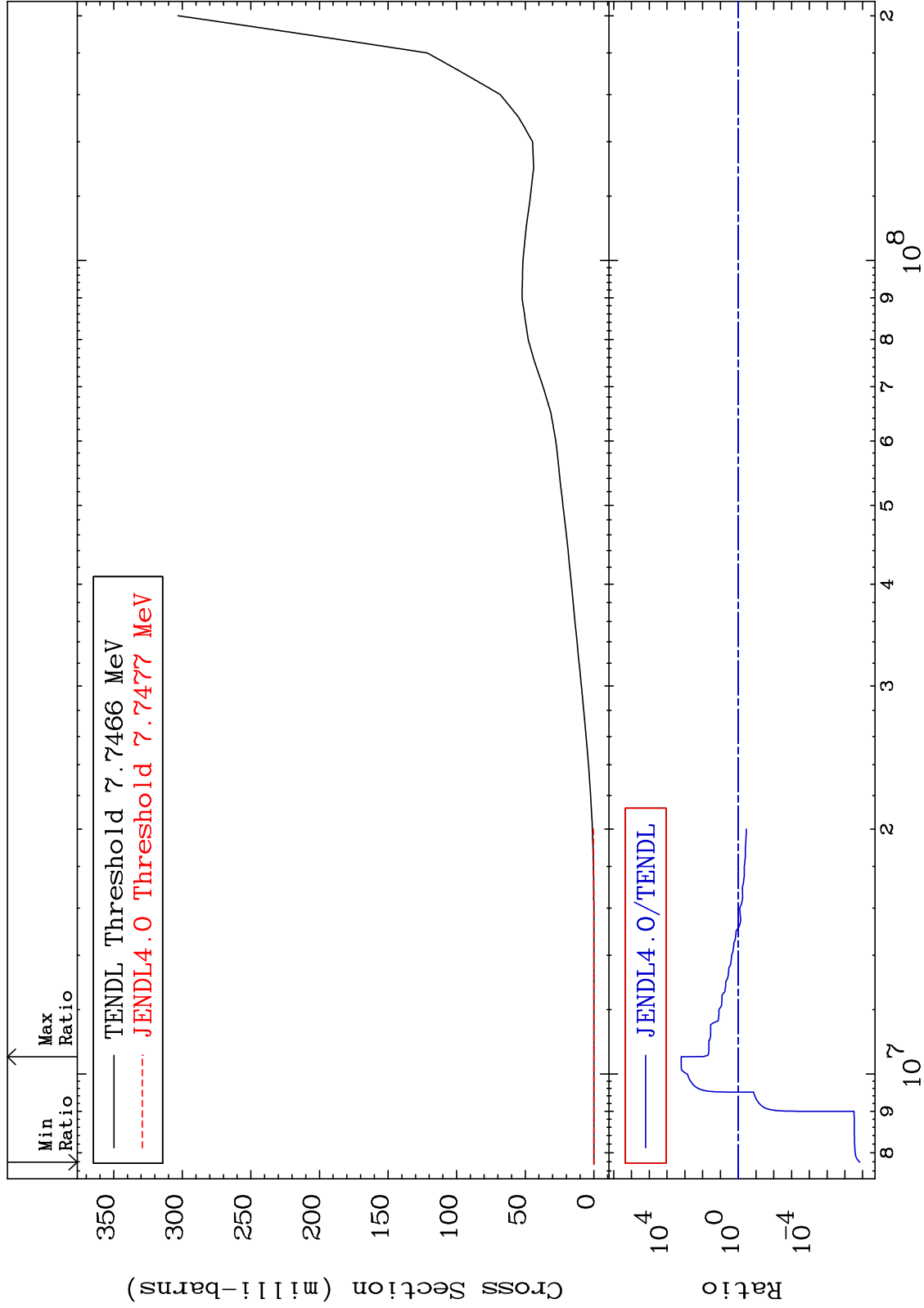




MAT 6431

Tritium Production  
Cross Section

64-Gd-154  
-100.0 To 9999. %



44

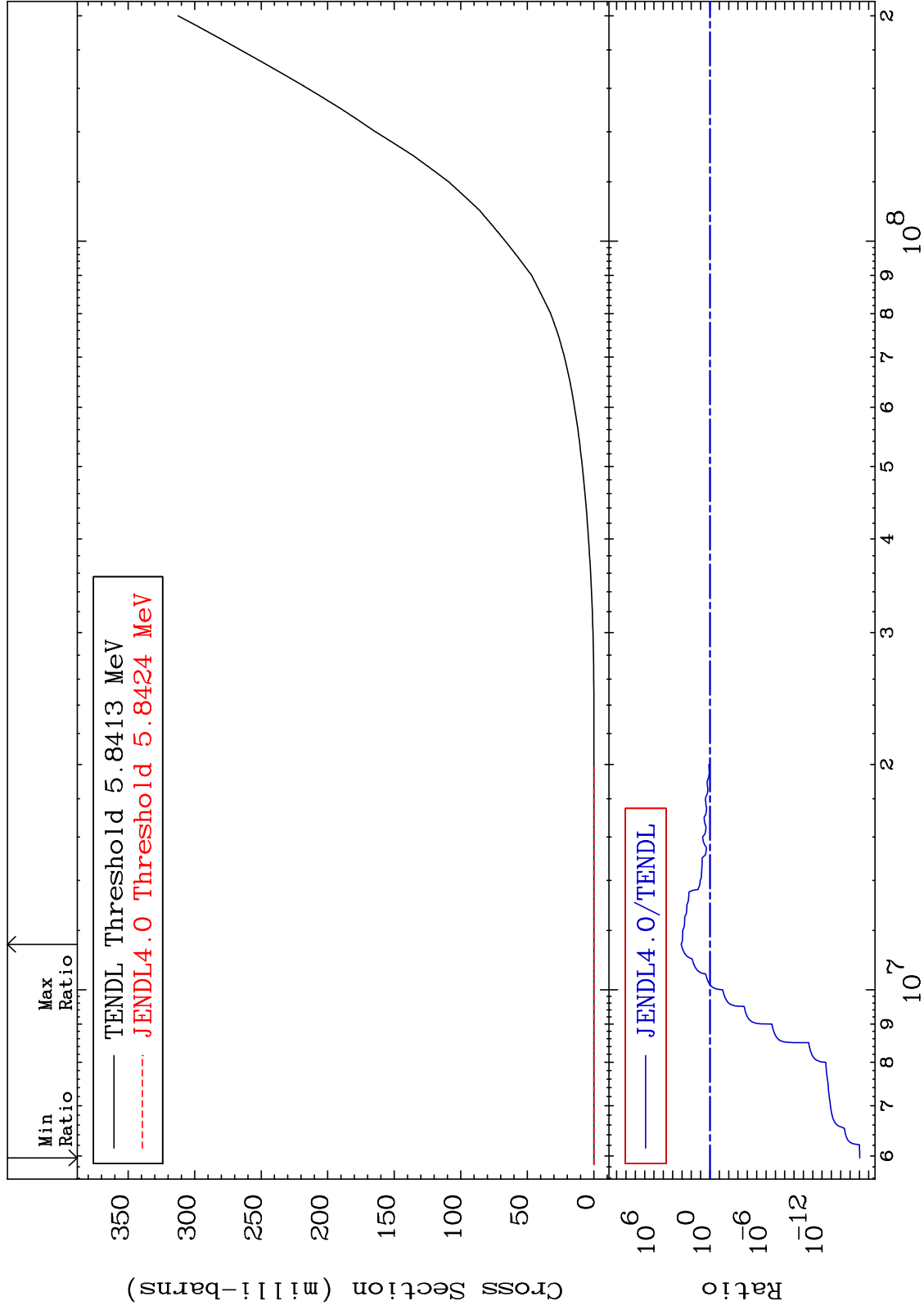
Incident Energy (eV)

64-Gd-154

MAT 6431

He-3 Production  
Cross Section

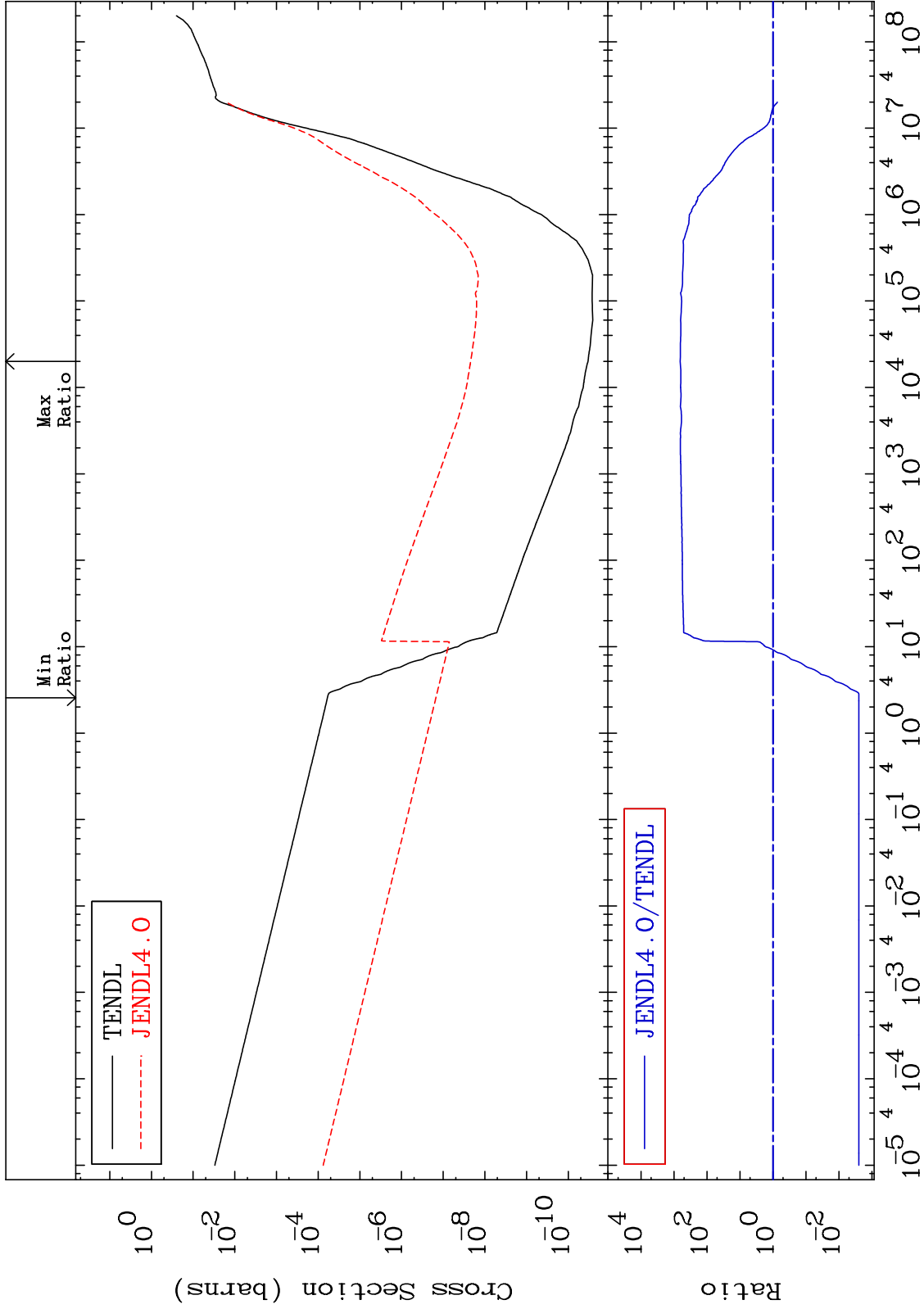
64-Gd-154  
-100.0 To 9999. %



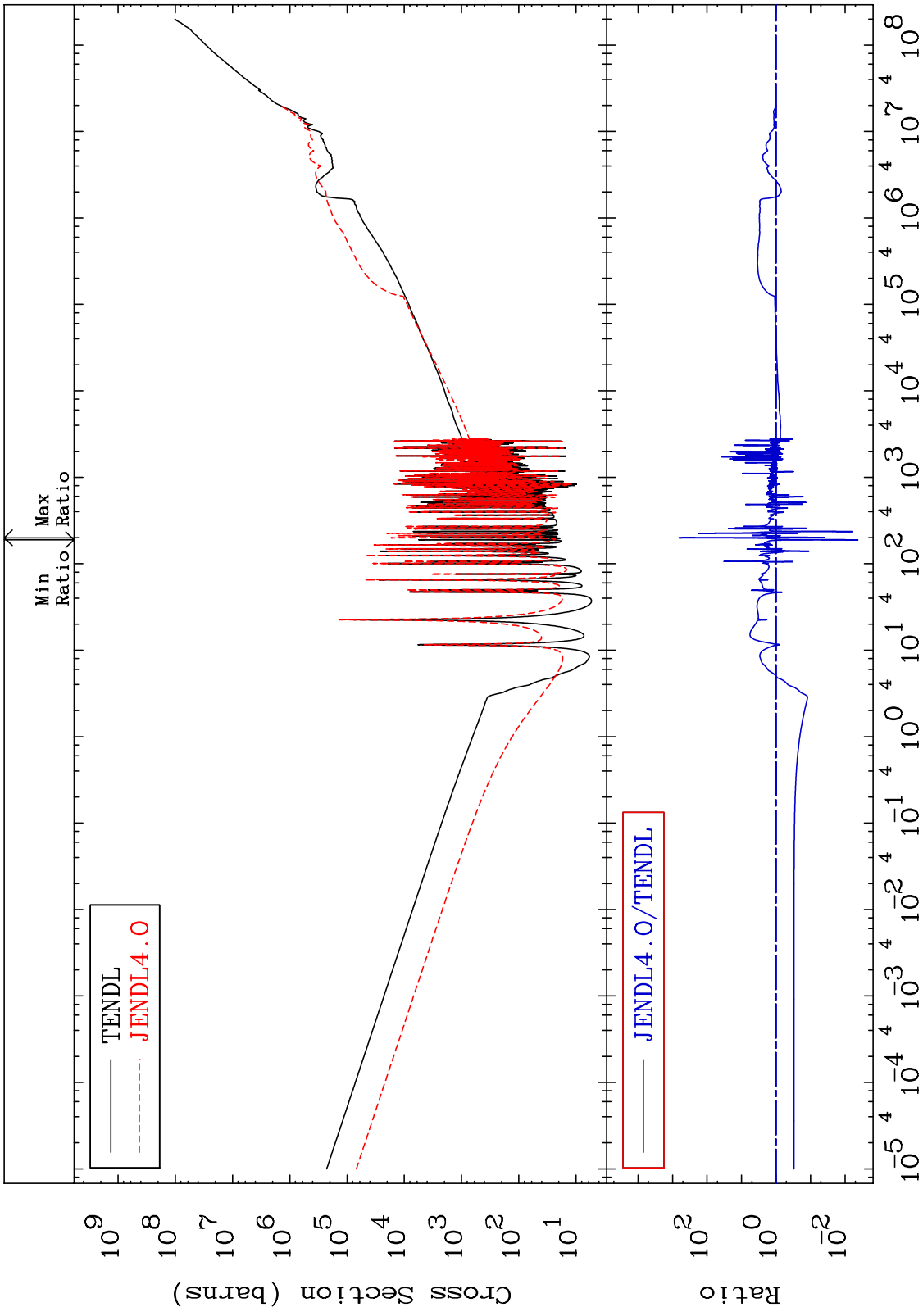
MAT 6431

He-4 Production  
Cross Section

64-Gd-154  
-99.75 To 9999. %



MAT 6431 Kerma total (eV-barns) 64-Gd-154  
 Cross Section -99.58 To 9999. %

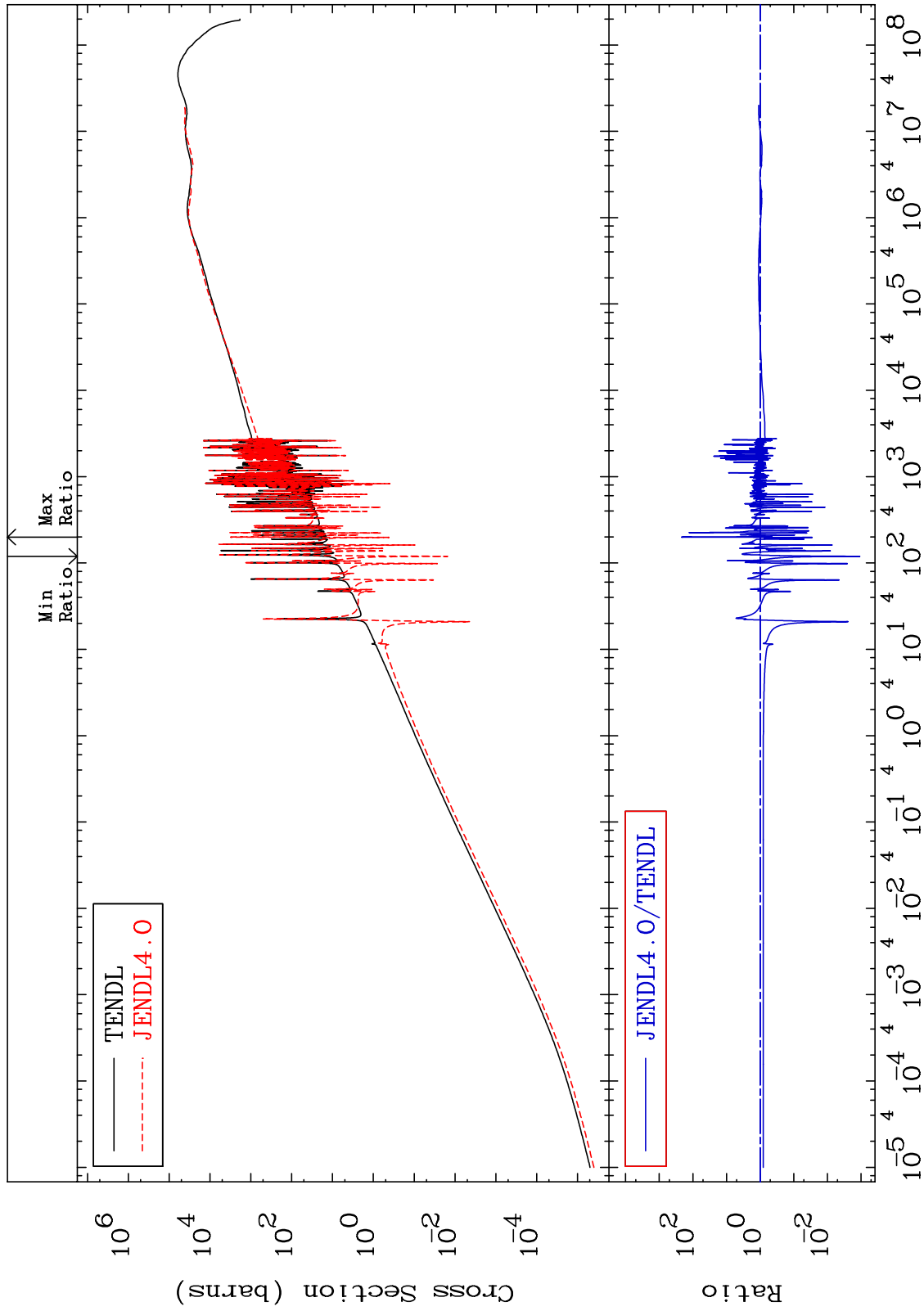




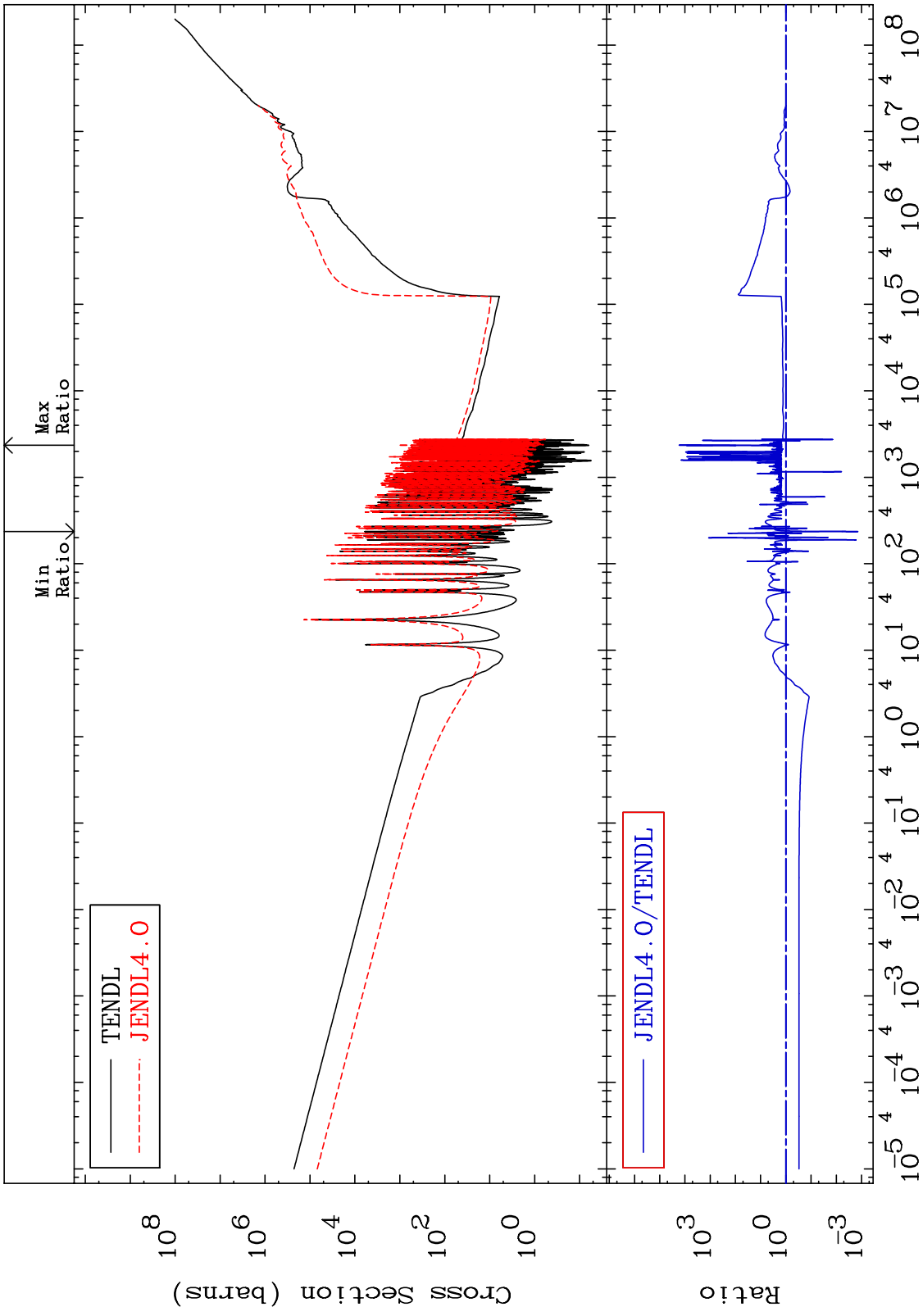
MAT 6431

Kerma elastic  
Cross Section

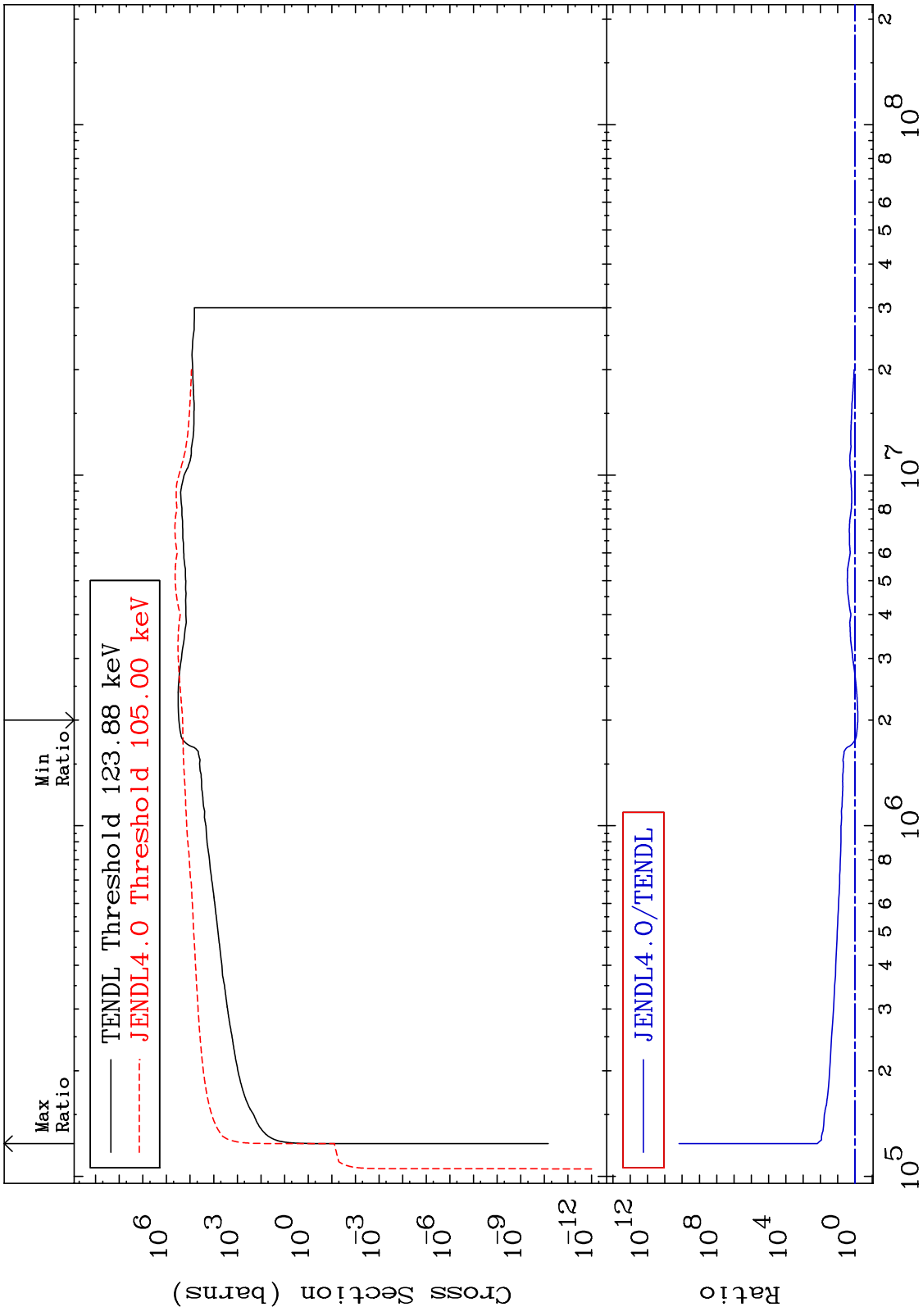
64-Gd-154  
-99.89 To 9999. %



MAT 6431 Kerma non-elastic (all but mt2) 64-Gd-154  
 Cross Section -99.86 To 9999. %



MAT 6431 Kerma inelastic (mt51-91) 64-Gd-154  
Cross Section -31.44 To 9999. %

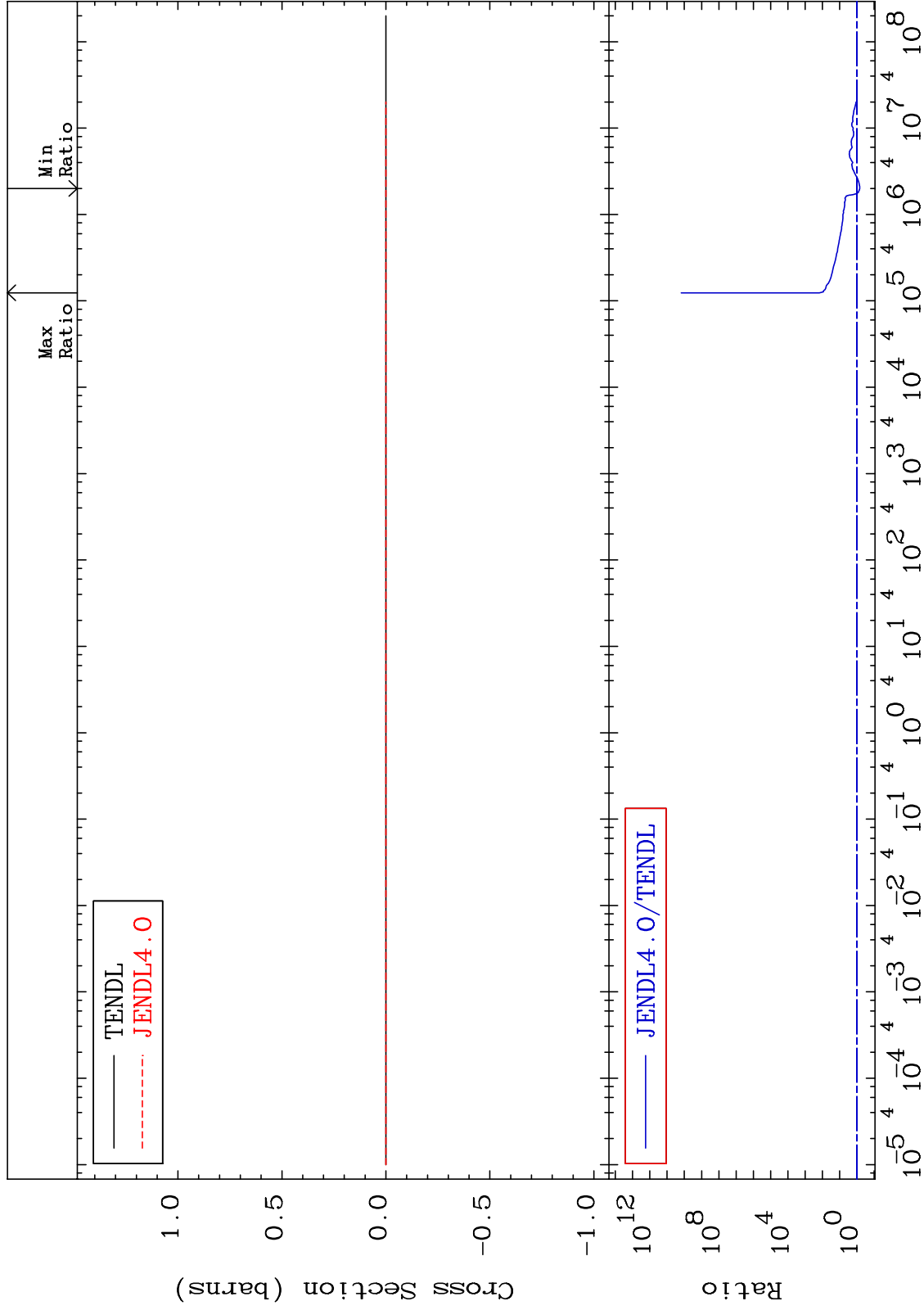


50 Incident Energy (eV) 64-Gd-154

MAT 6431

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

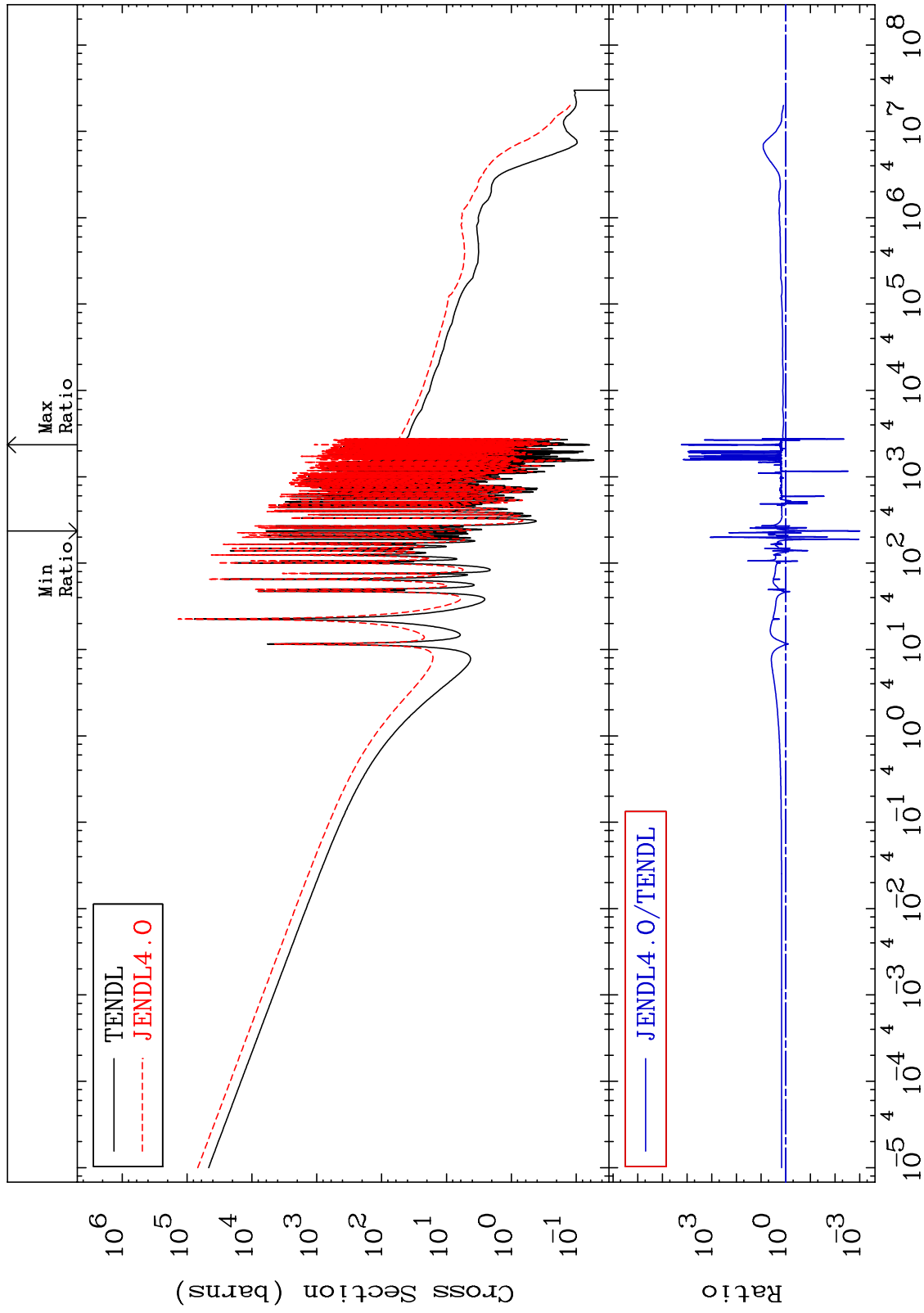
64-Gd-154  
-31.44 To 9999. %



MAT 6431

Kerma capture (mt102)  
Cross Section

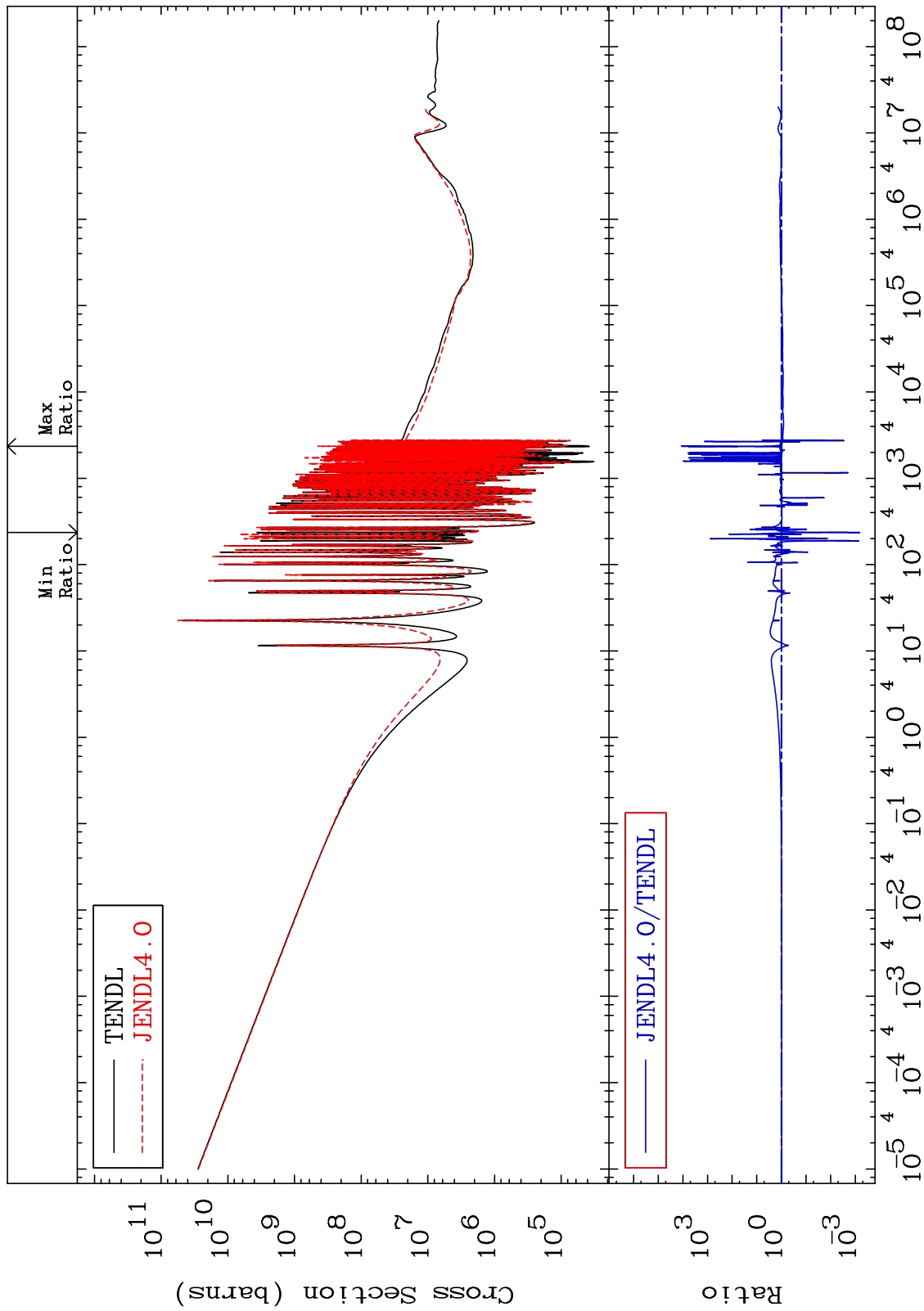
64-Gd-154  
-99.90 To 9999. %



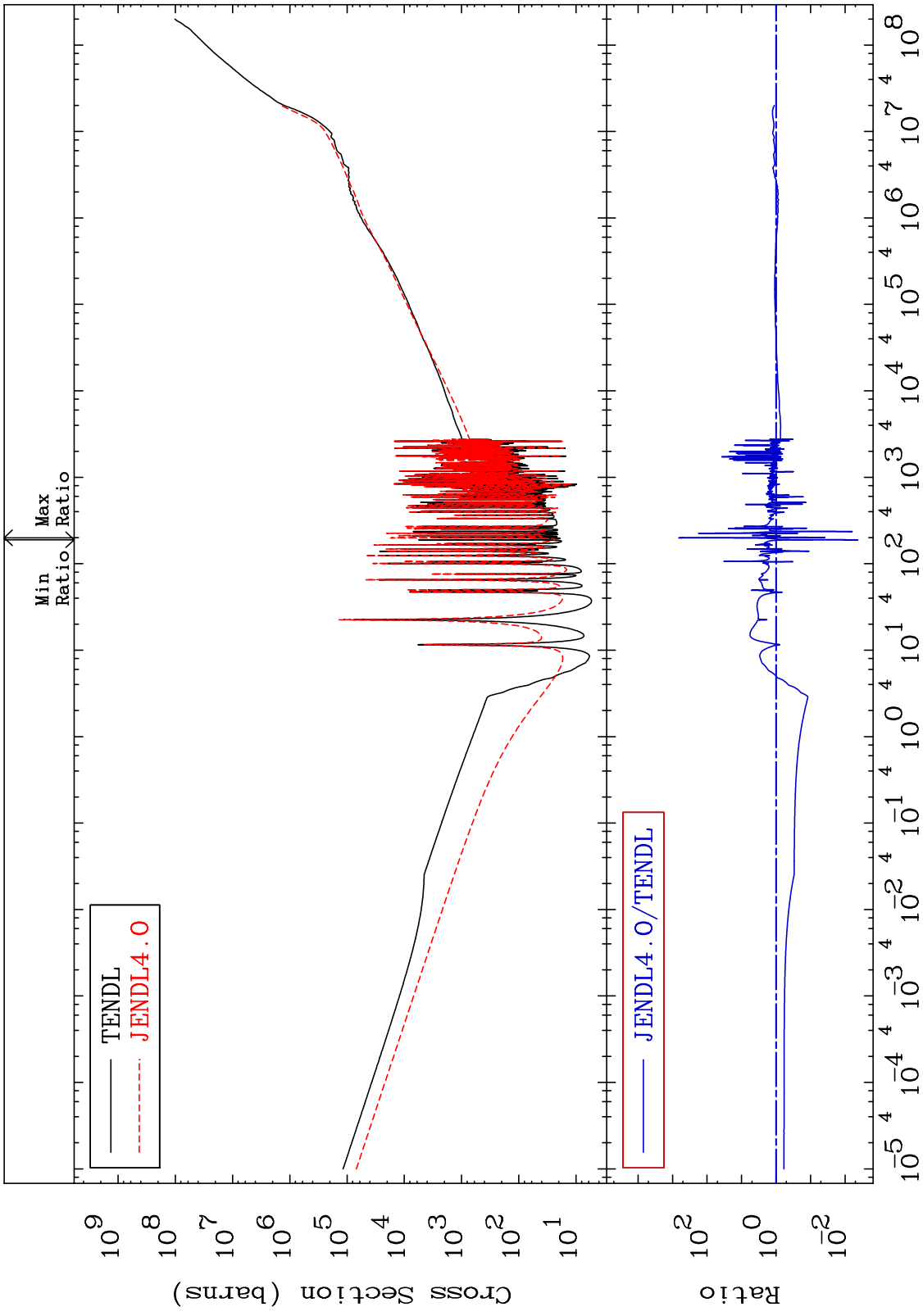
MAT 6431

Total photon (eV-barns)  
Cross Section

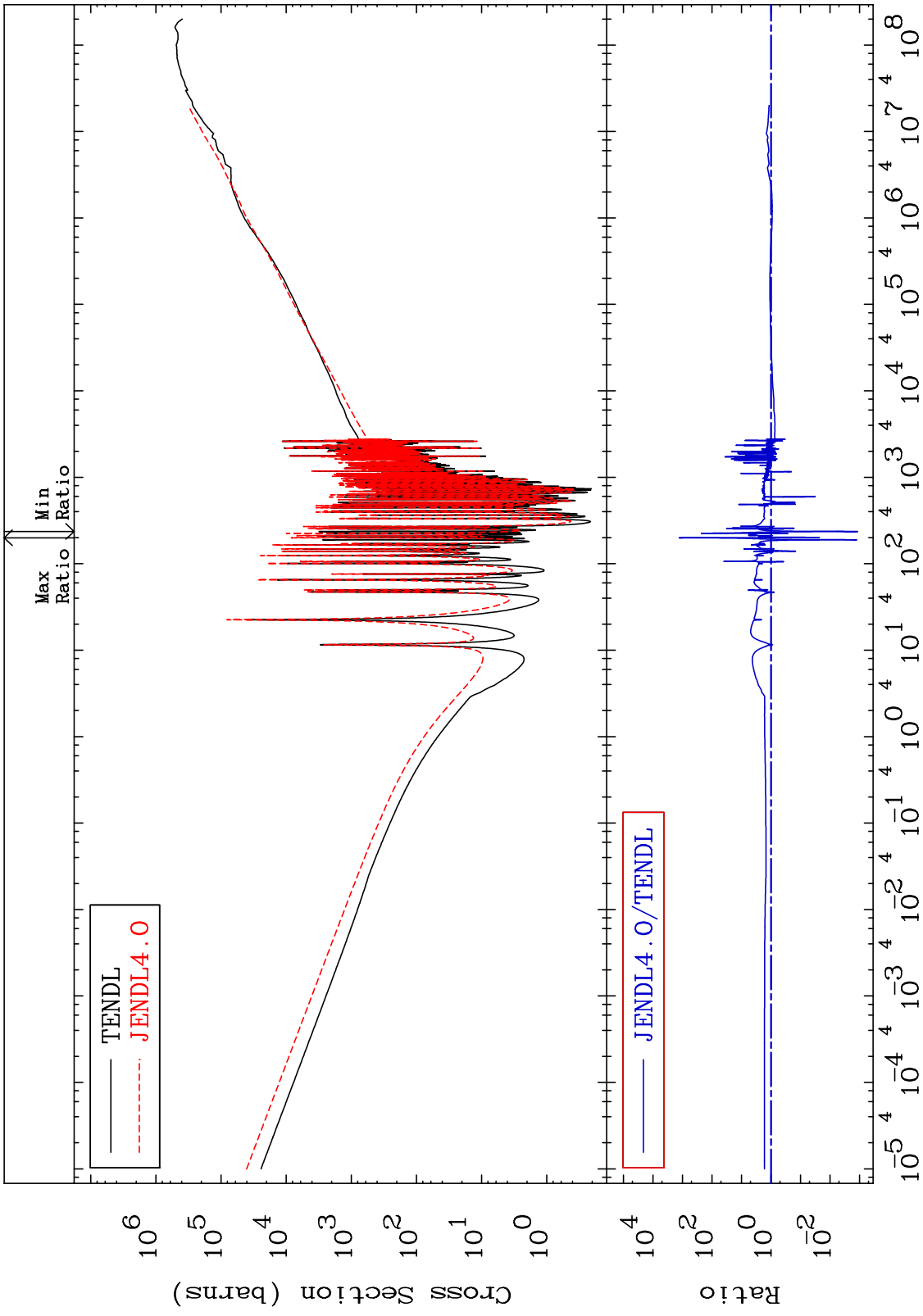
64-Gd-154  
-99.93 To 9999. %



MAT 6431 Total kinematic kerma (high limit) 64-Gd-154  
 Cross Section -99.58 To 9999. %



MAT 6431      Dpa total (eV-barns)      64-Gd-154  
 Cross Section      -99.89 To 9999. %



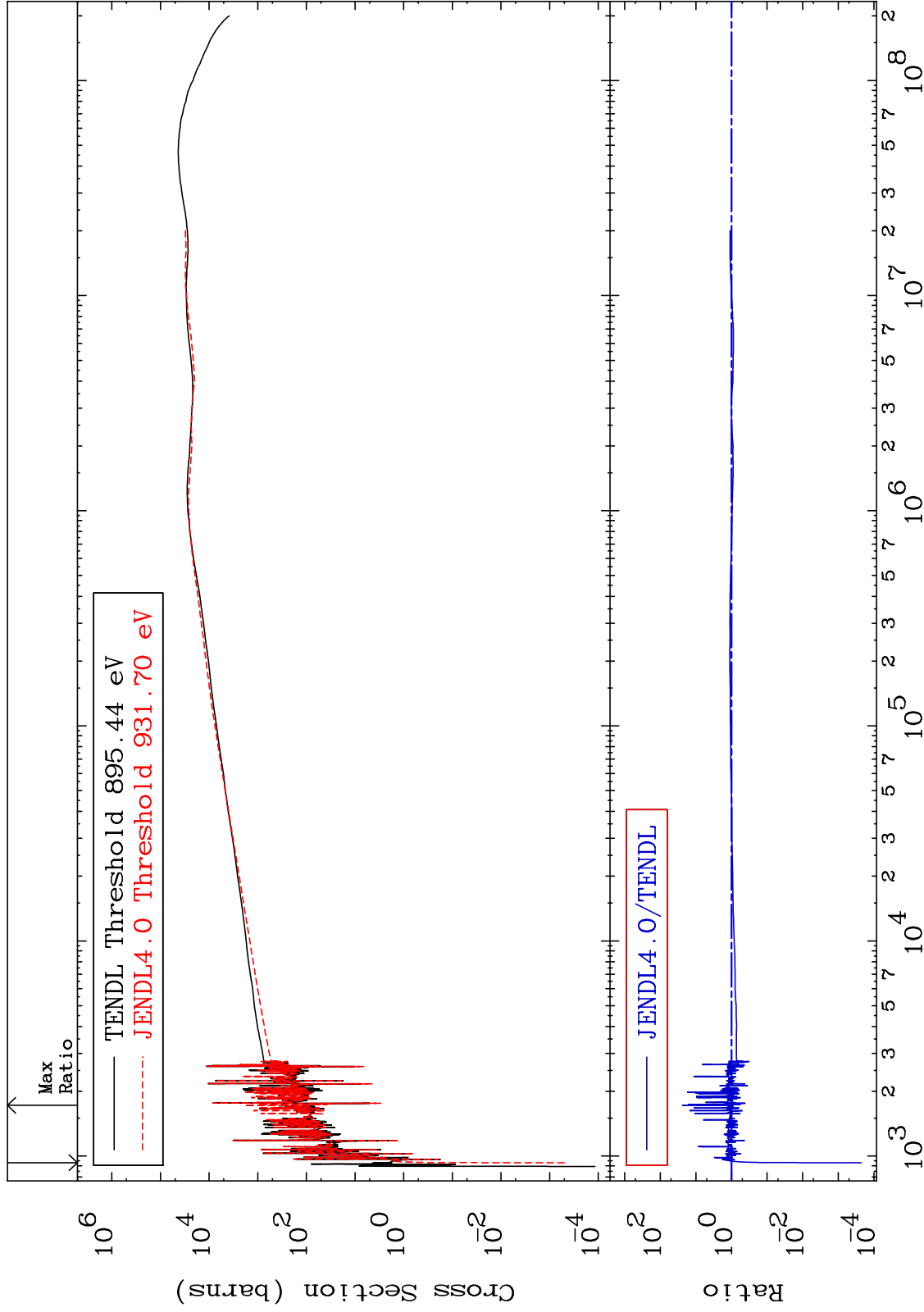
55      Incident Energy (eV)      64-Gd-154



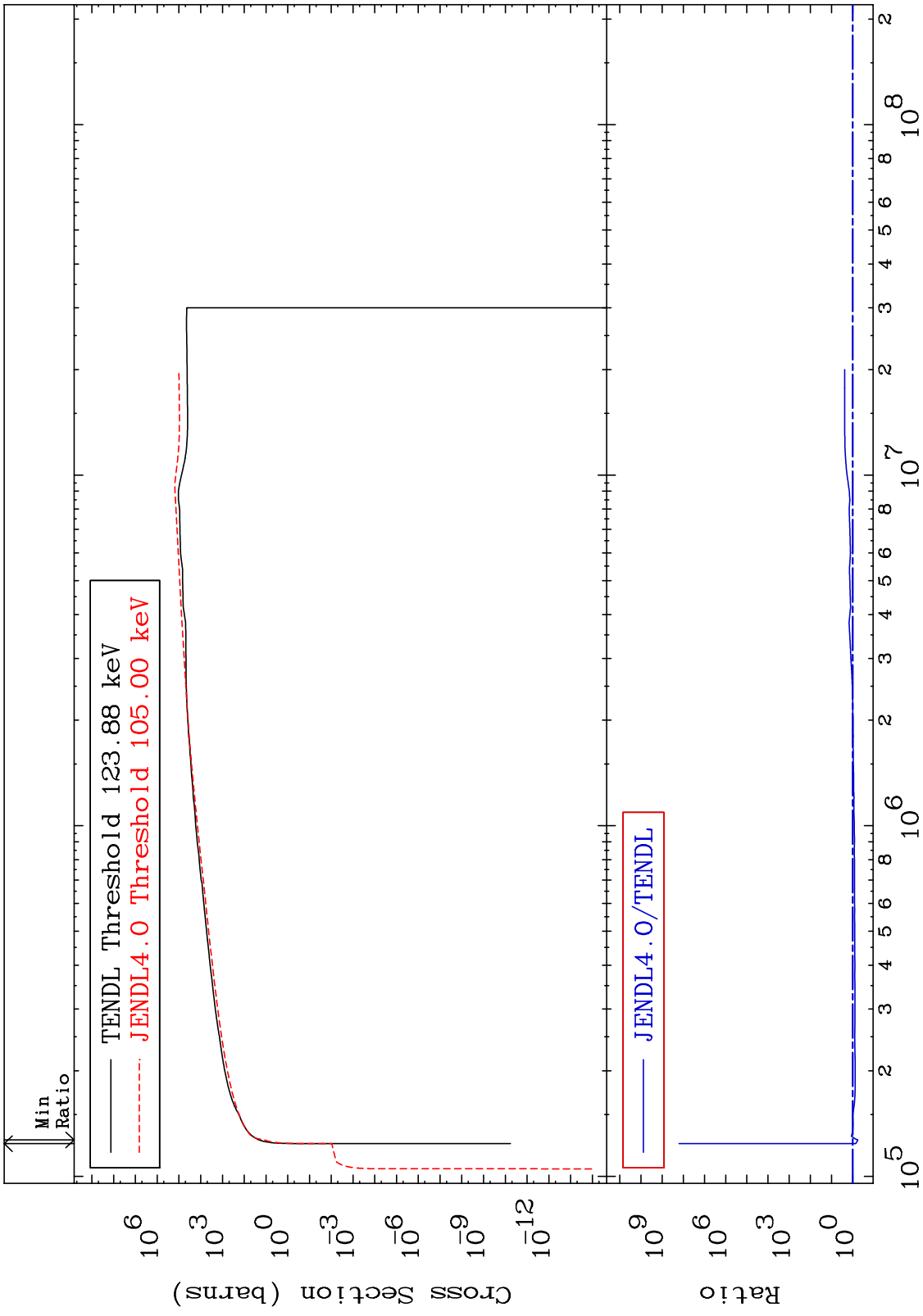
MAT 6431

Dpa elastic (mt2)  
Cross Section

64-Gd-154  
-99.98 To 2284. %



MAT 6431      Dpa inelastic (mt51-91)      64-Gd-154  
 Cross Section      -43.09 To 9999. %



57      Incident Energy (eV)      64-Gd-154

MAT 6431      Dpa disappearance (mt102 -120)      64-Gd-154  
 Cross Section      -99.89 To 9999. %

