

Program Complot  
(Version 2021-1)

by

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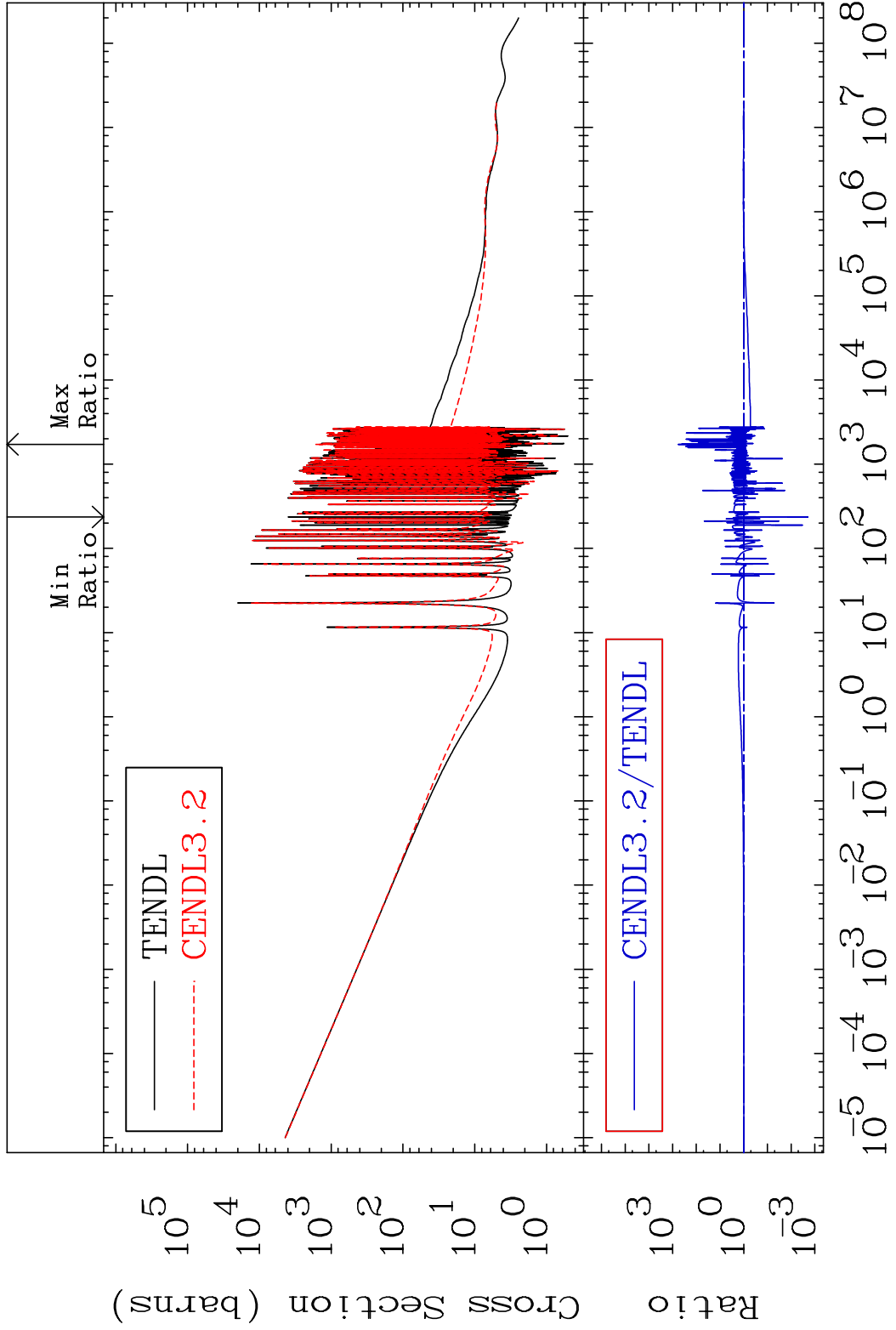
U.S.A.

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

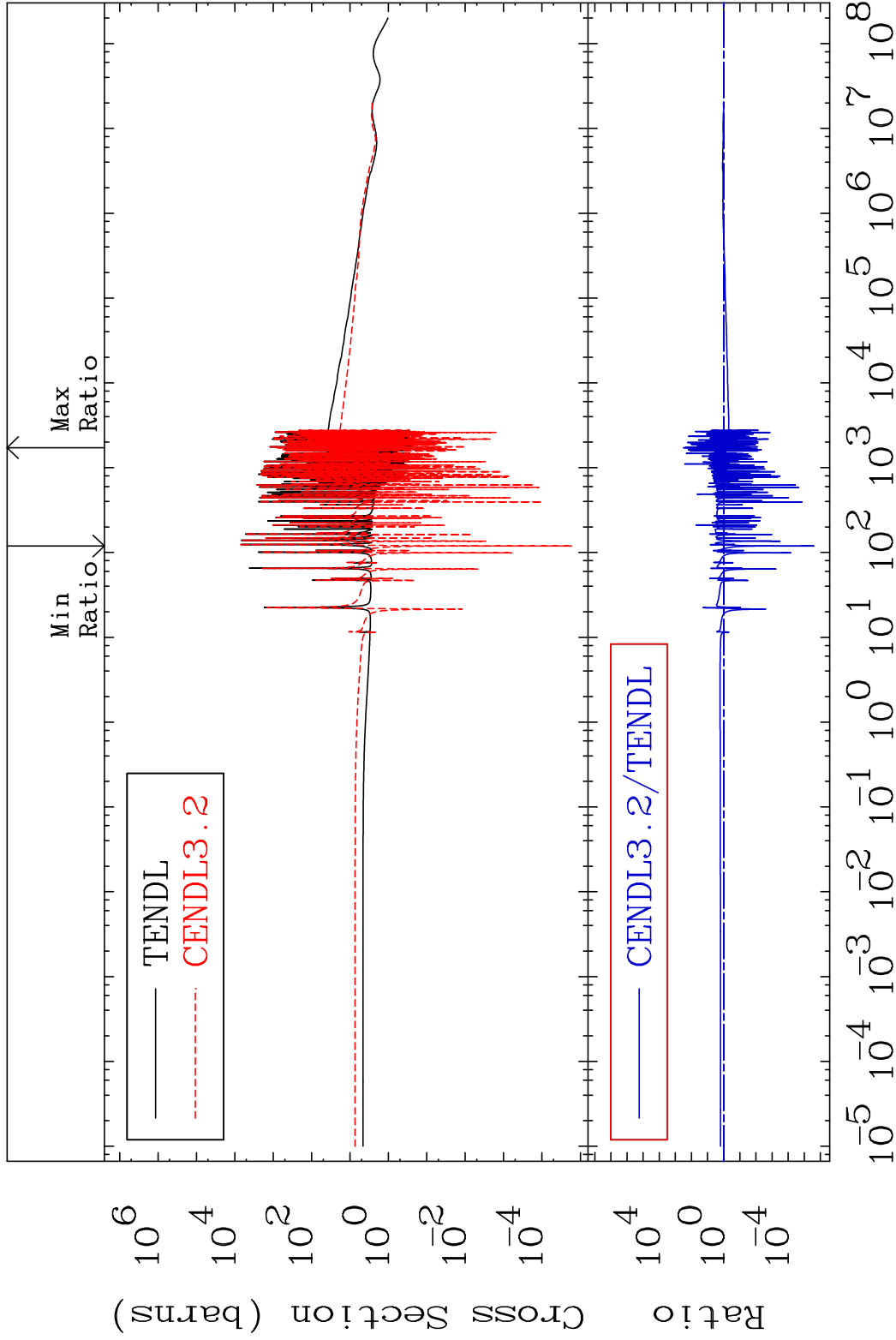
Press Mouse Button to Start

MAT 6431                      Total                      64-Gd-154  
 Cross Section                      -99.80 To 9999. %



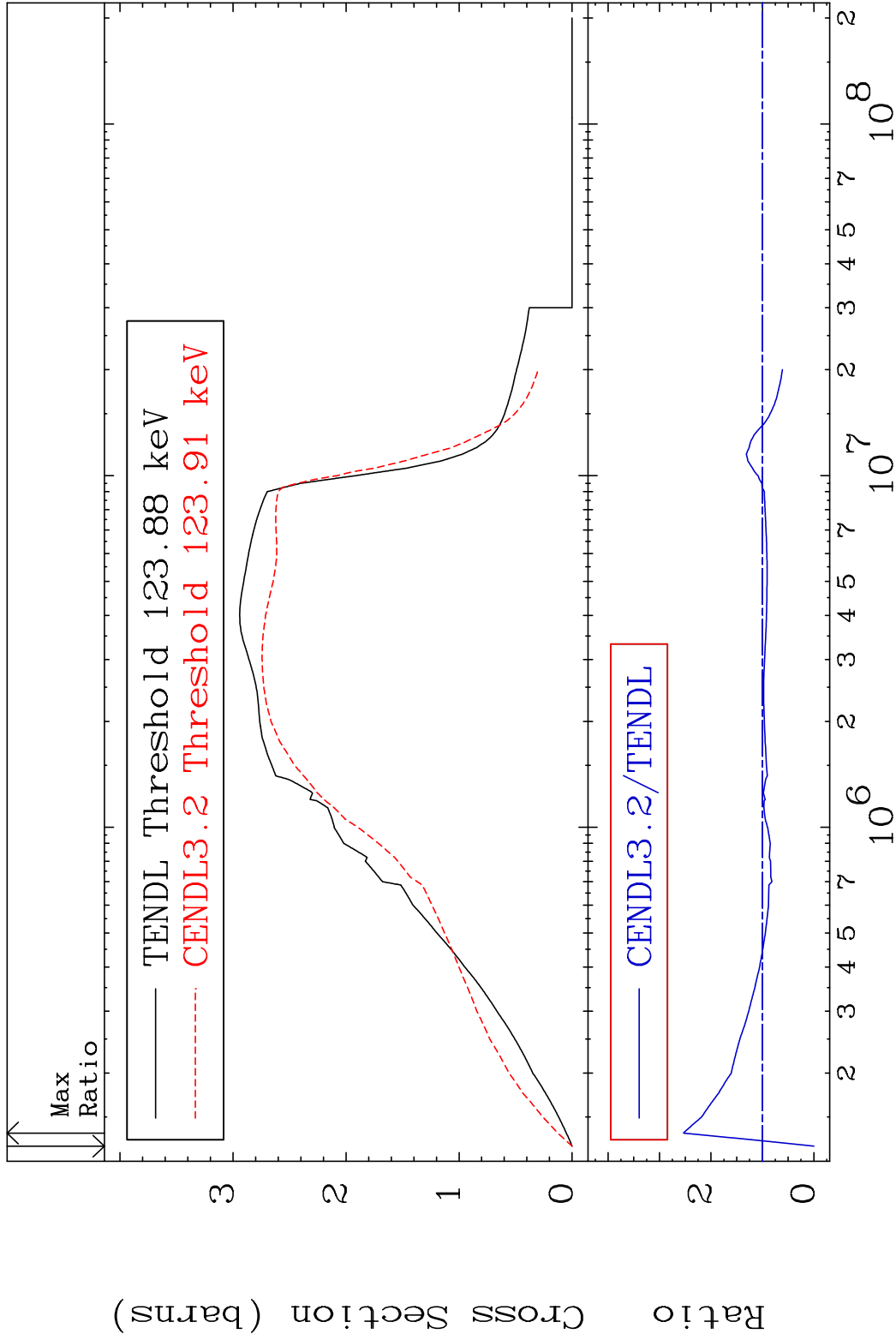
1                      Incident Energy (eV)                      64-Gd-154

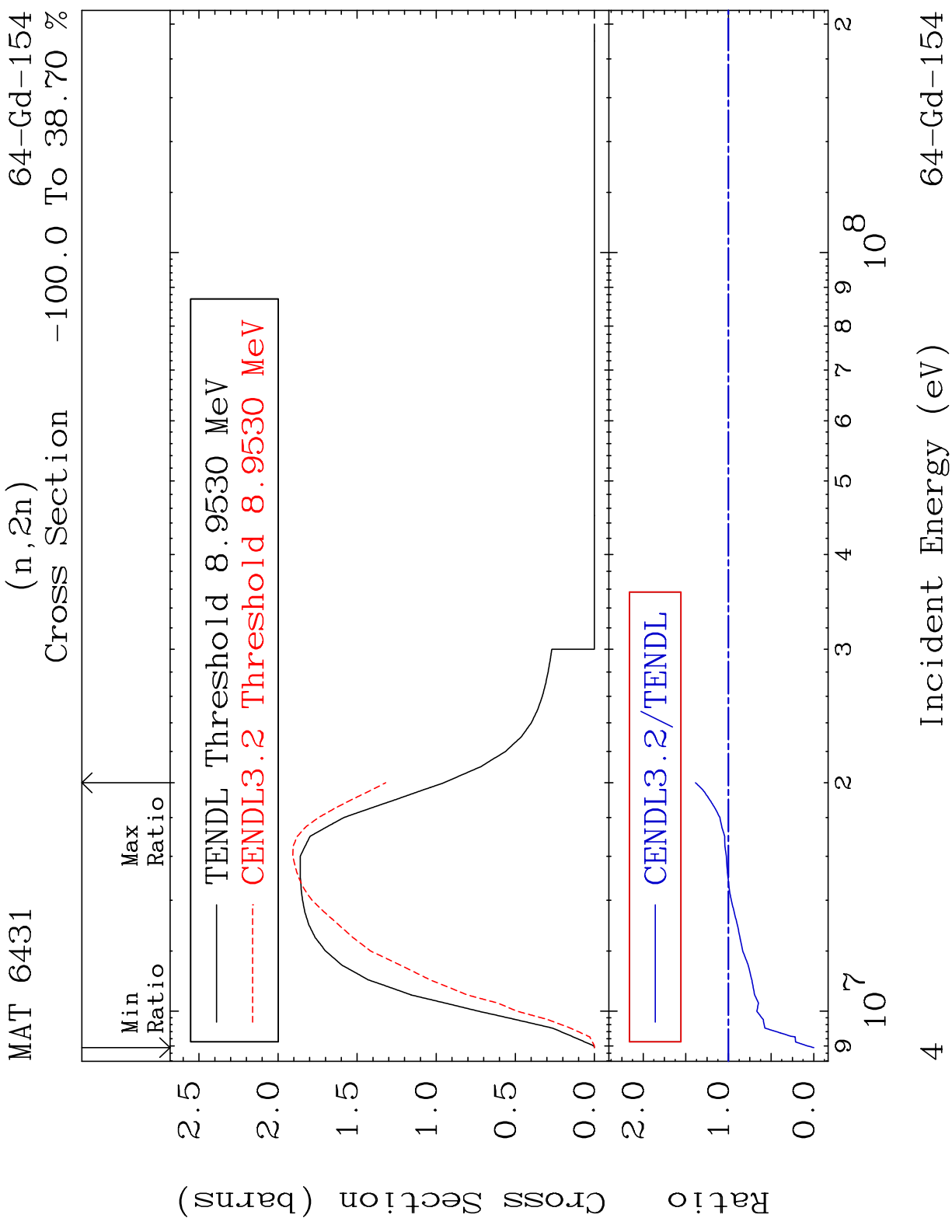
MAT 6431                      Elastic                      64-Gd-154  
 Cross Section                      -100.0 To 9999. %



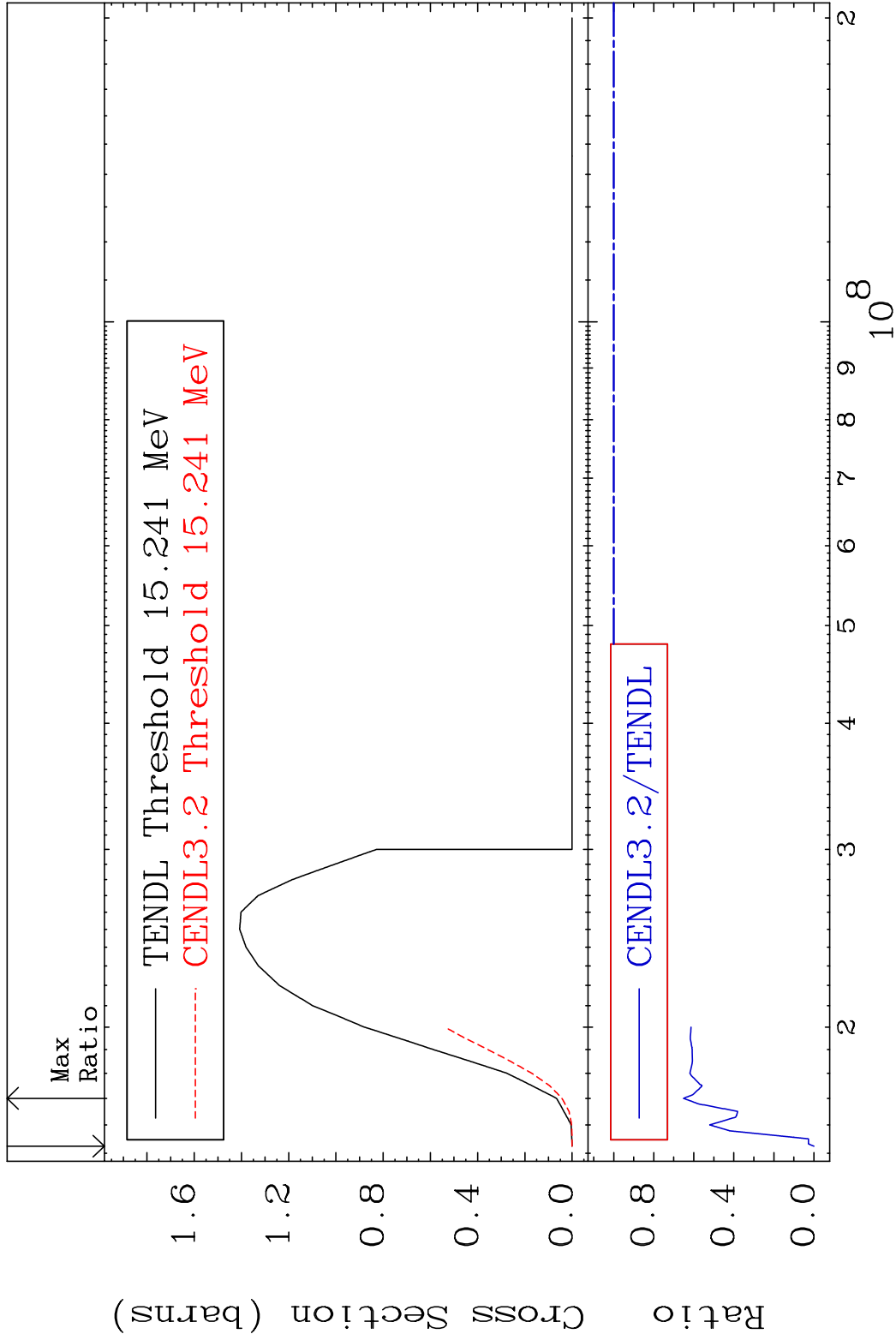
2                      Incident Energy (eV)                      64-Gd-154

MAT 6431 Inelastic 64-Gd-154  
 Cross Section -100.0 To 153.5 %





MAT 6431 (n,3n) 64-Gd-154  
 Cross Section -100.0 To -34.84%

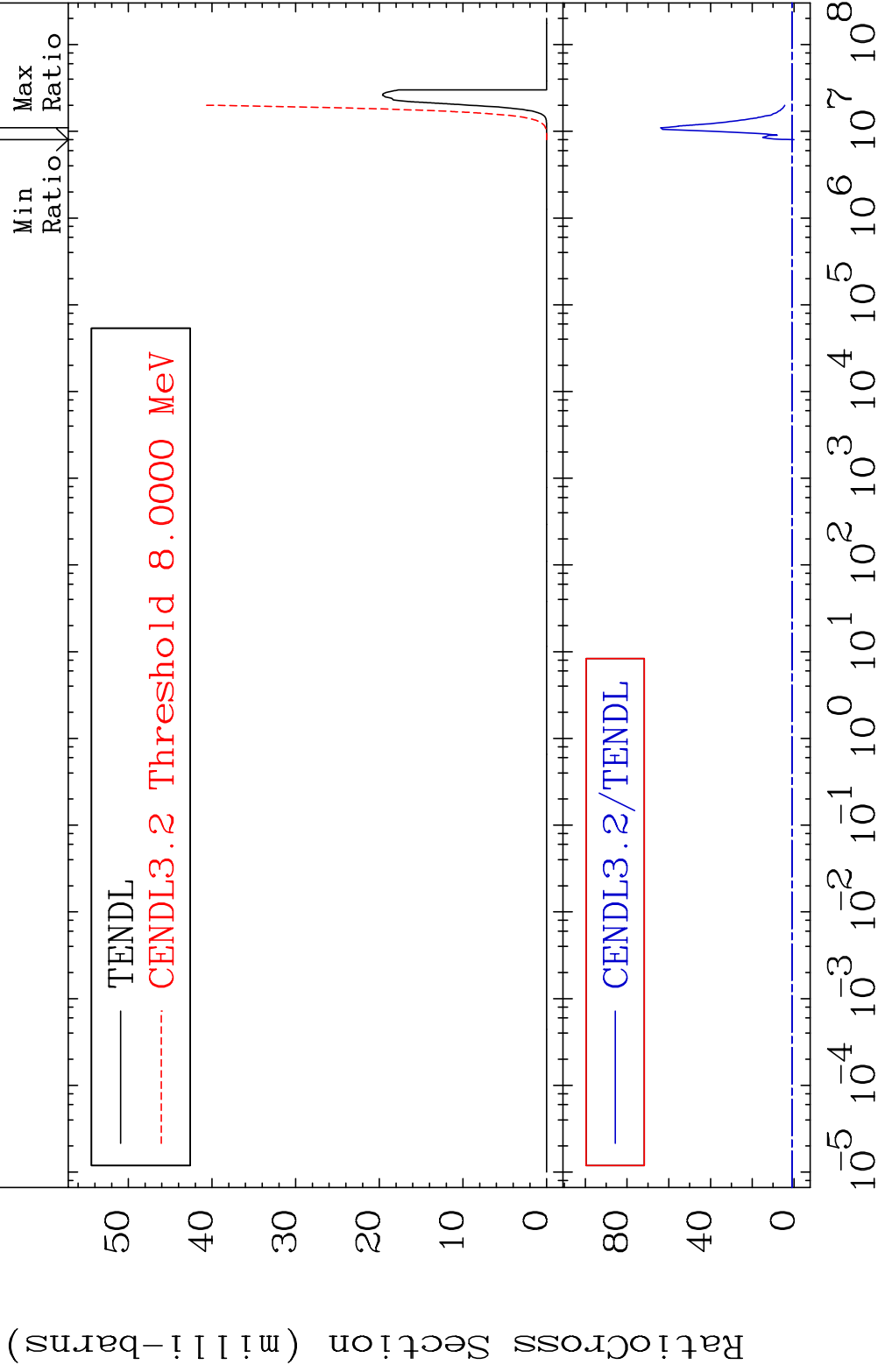


MAT 6431

(n, n')  $\alpha$

64-Gd-154

Cross Section -100.0 To 6293. %

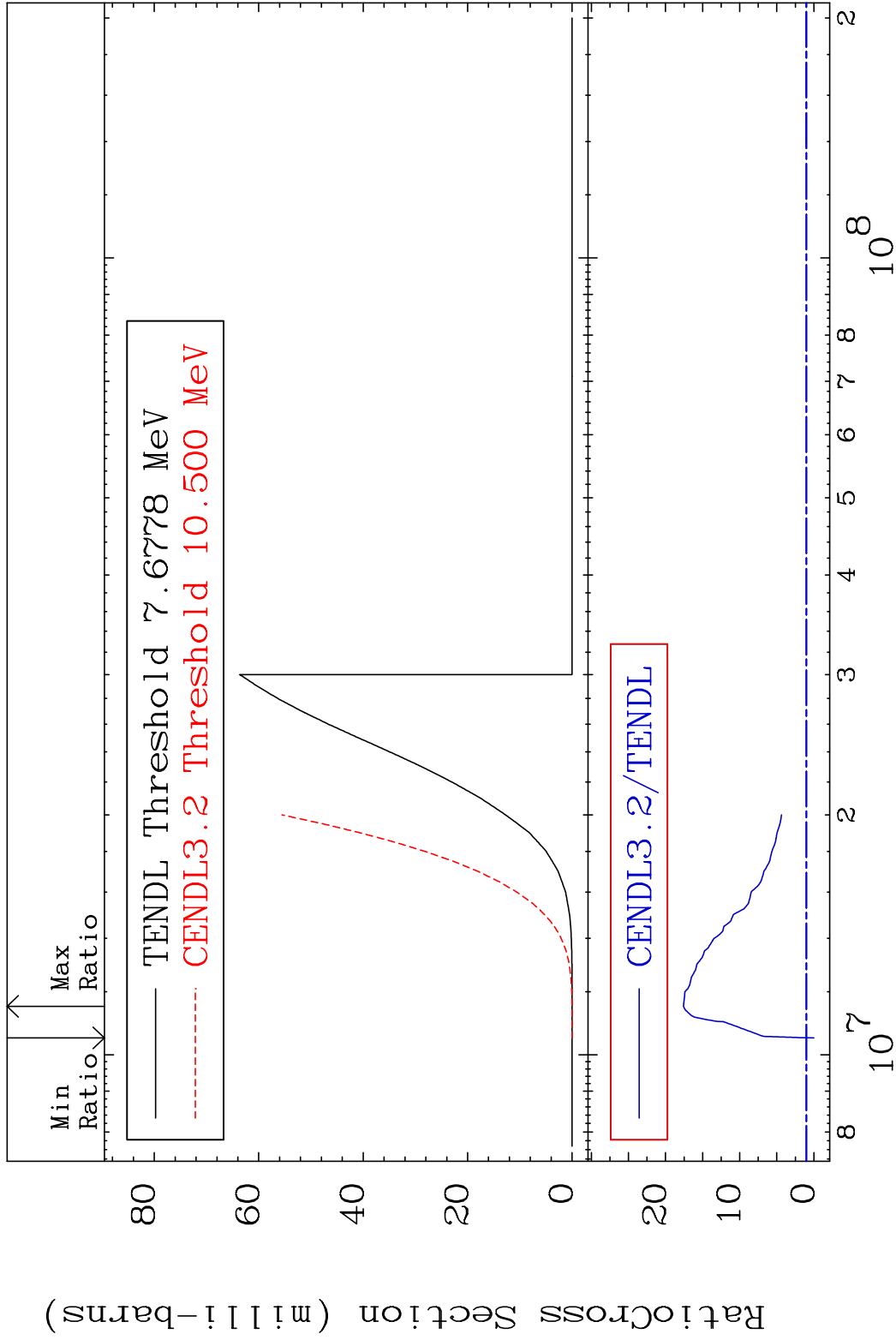


6

Incident Energy (eV)

64-Gd-154

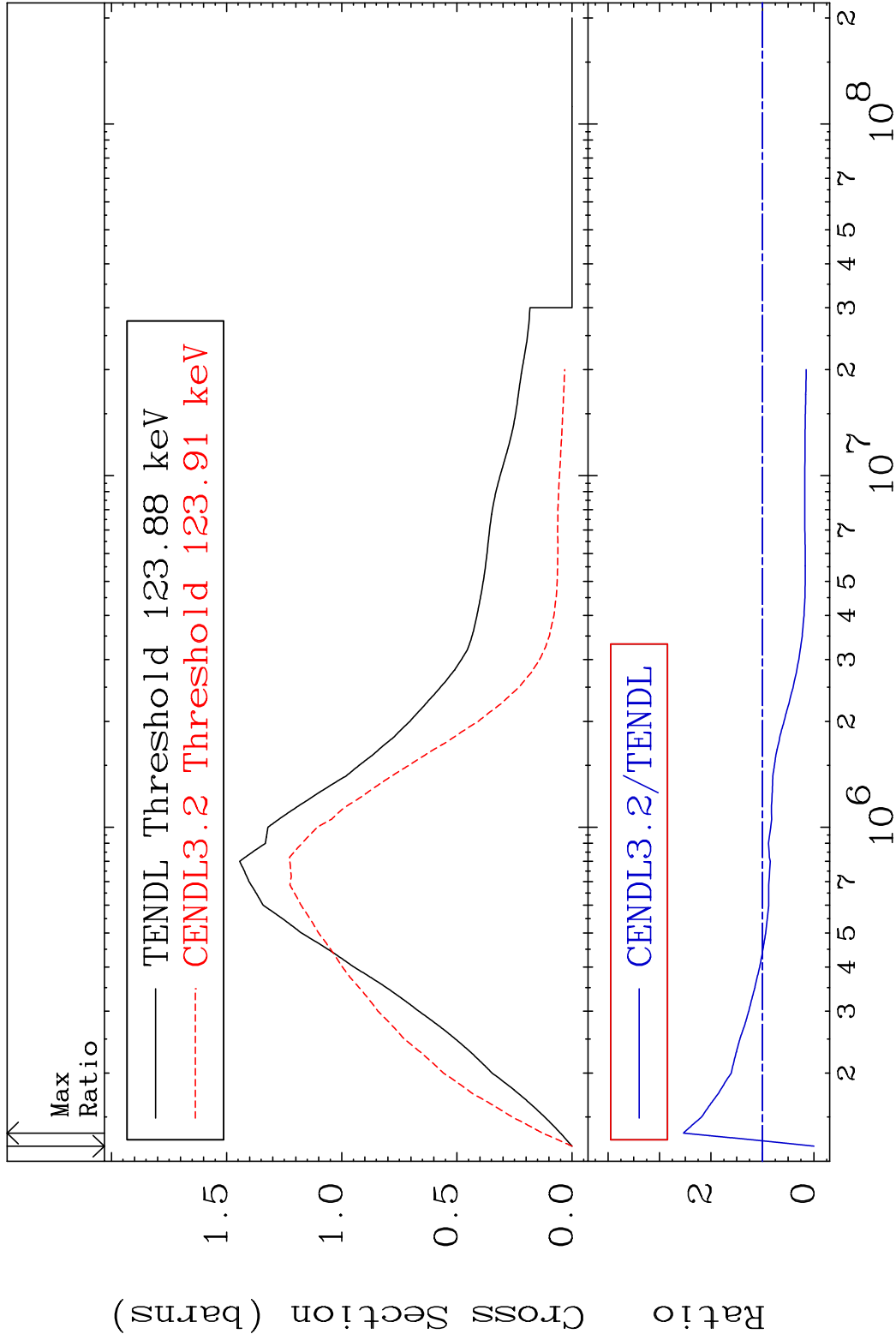
MAT 6431 (n, n') p 64-Gd-154  
 Cross Section -100.0 To 1659. %



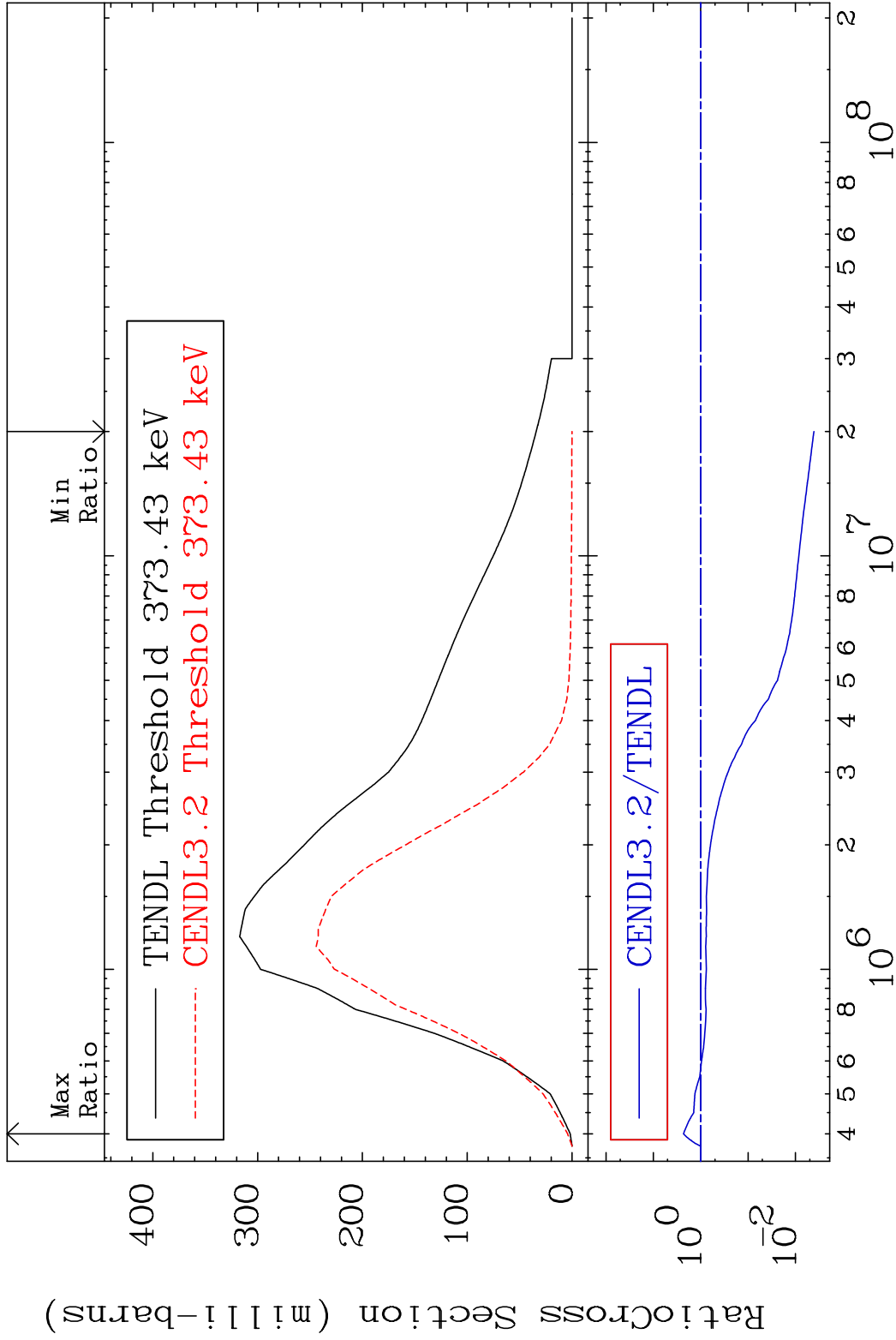
7 64-Gd-154



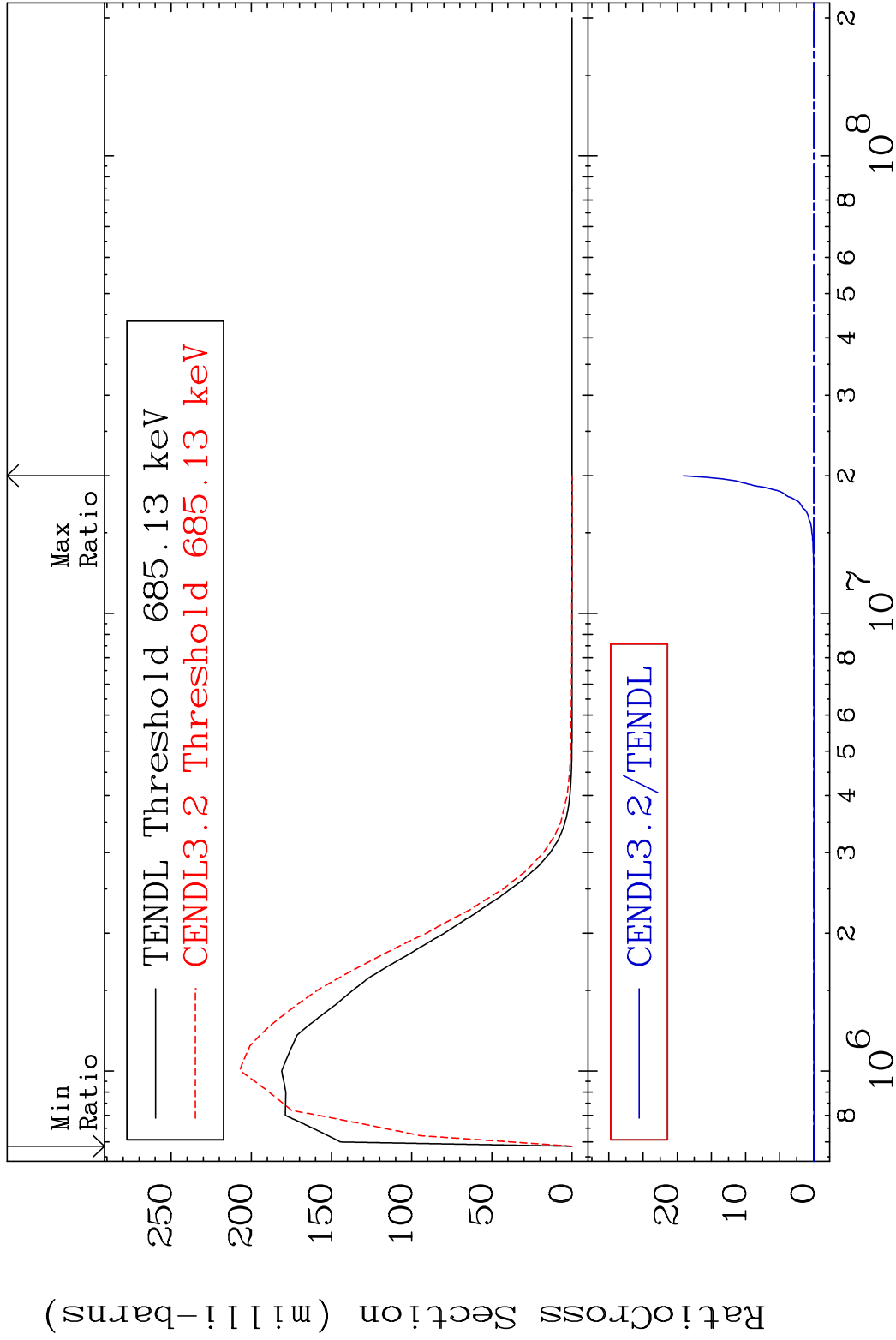
MAT 6431 MT= 51 (n, n') Level 64-Gd-154  
 Cross Section -100.0 To 153.5 %



MAT 6431 MT= 52 (n, n') Level 64-Gd-154  
 Cross Section -99.59 To 131.4 %

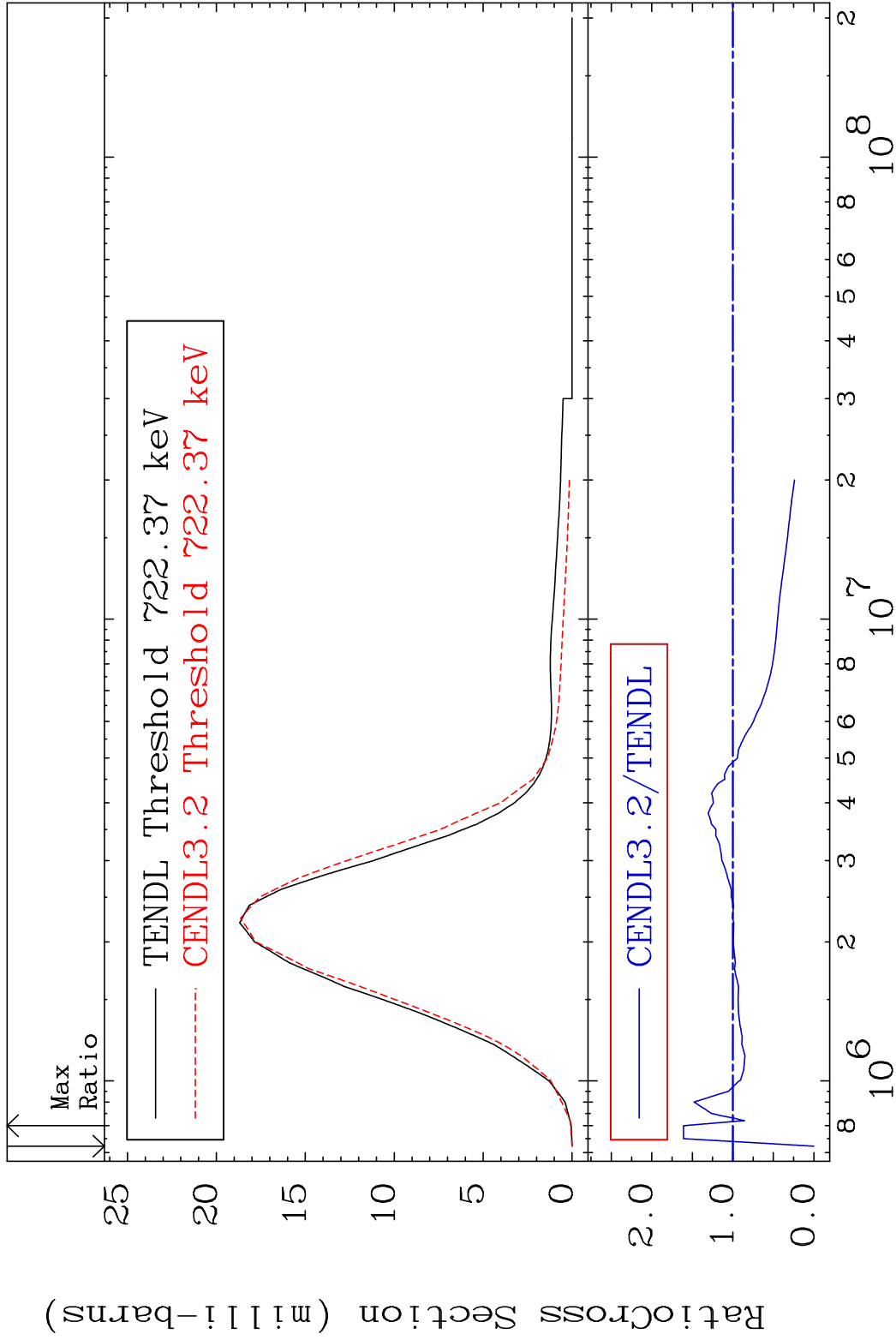


MAT 6431 MT= 53 (n, n') Level 64-Gd-154  
 Cross Section -100.0 To 9999. %



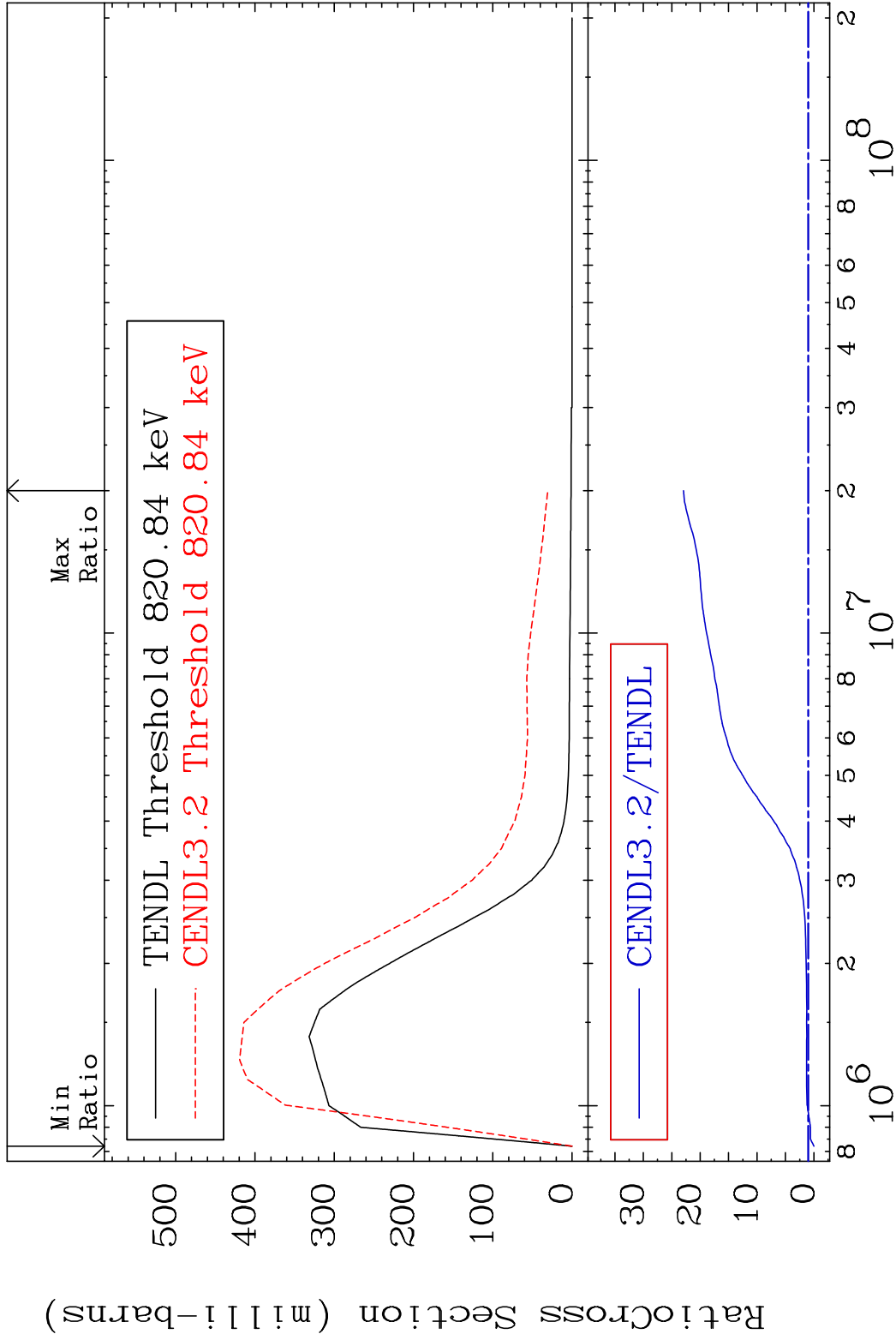
10 Incident Energy (eV) 64-Gd-154

MAT 6431 MT= 54 (n, n') Level 64-Gd-154  
Cross Section -100.0 To 60.96 %



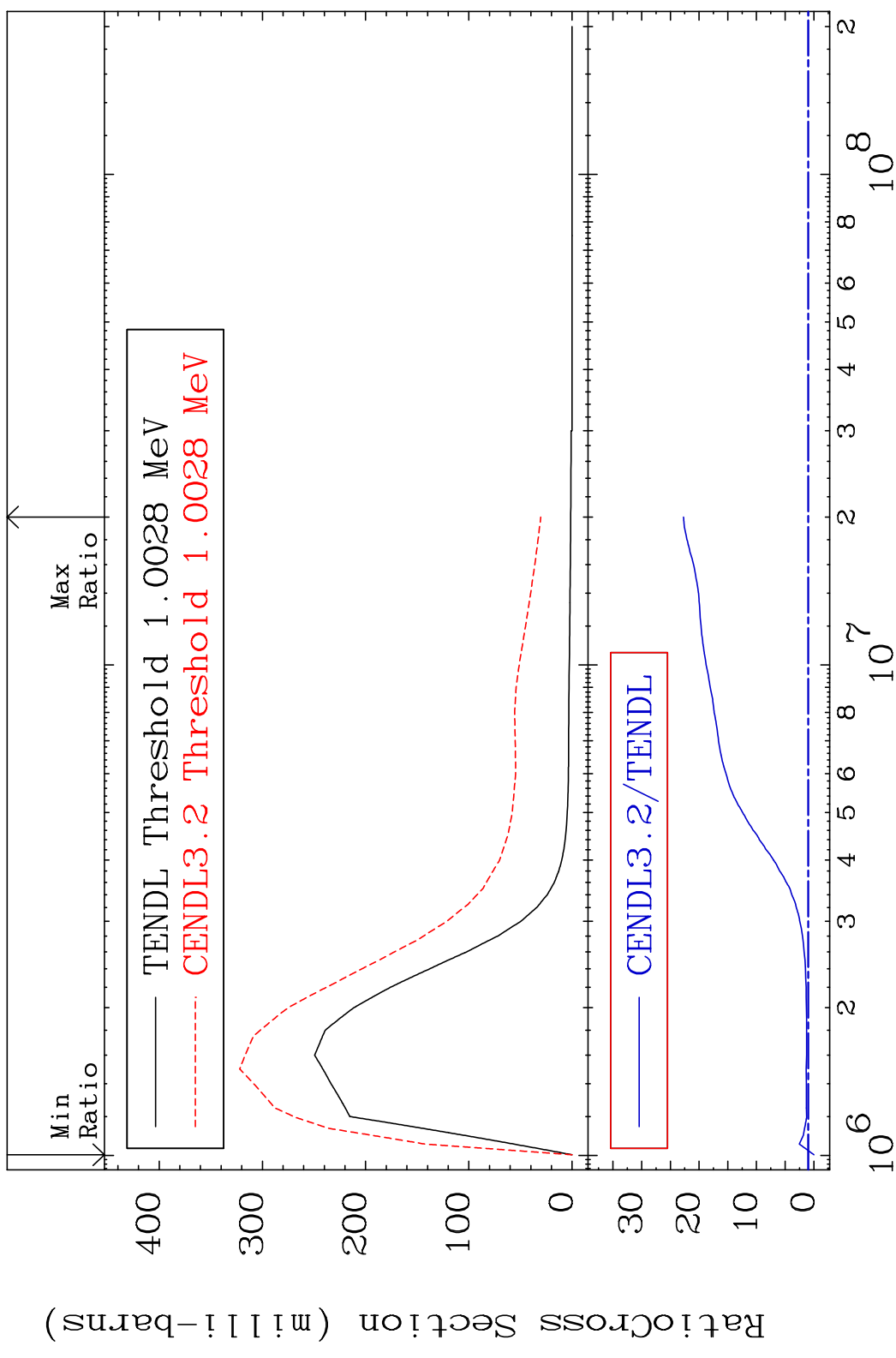
11 Incident Energy (eV) 64-Gd-154

MAT 6431 MT= 55 (n, n') Level 64-Gd-154  
 Cross Section -100.0 To 2194. %



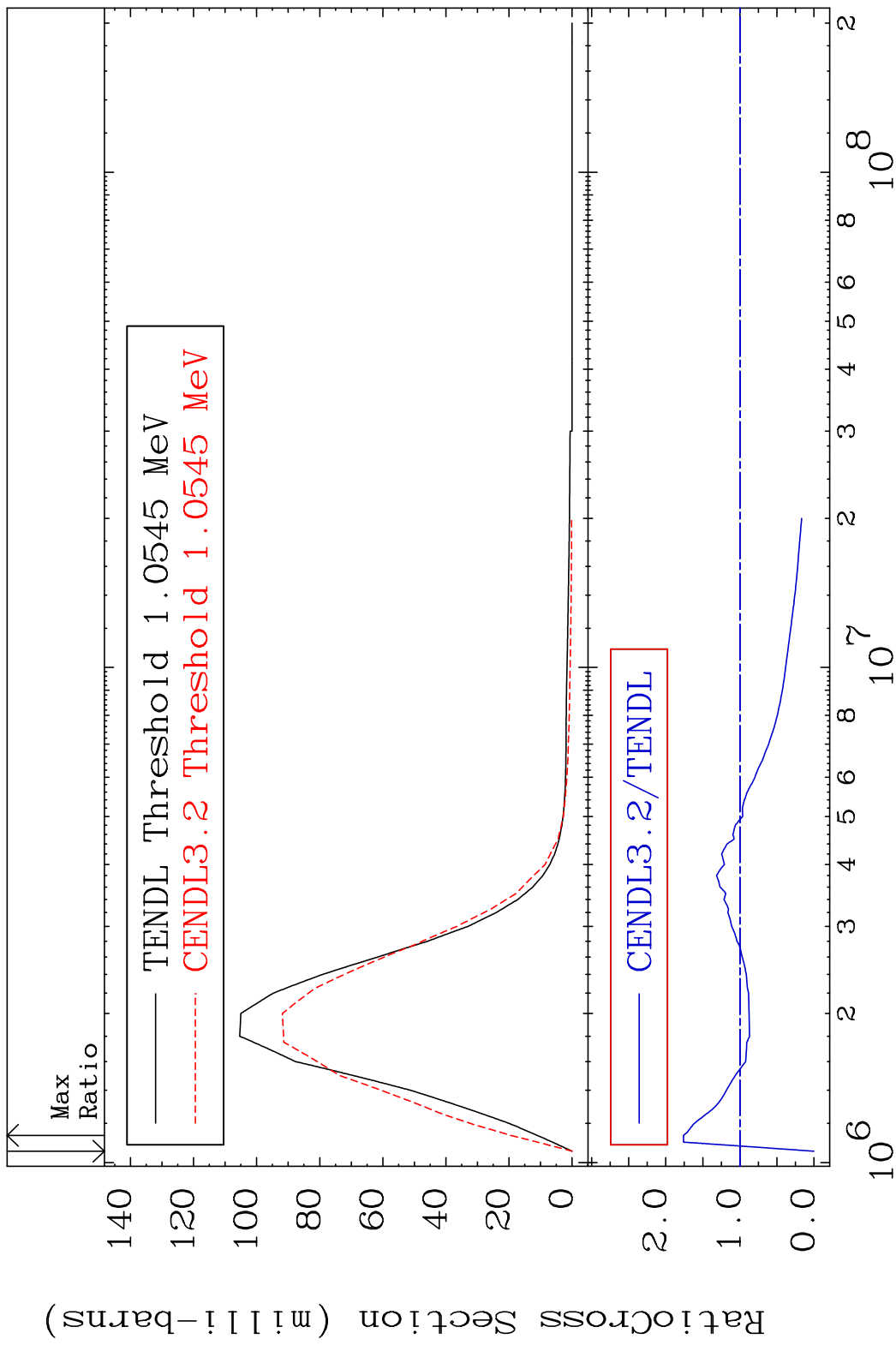
12 Incident Energy (eV) 64-Gd-154

MAT 6431 MT= 56 (n, n') Level 64-Gd-154  
 Cross Section -100.0 To 2172. %



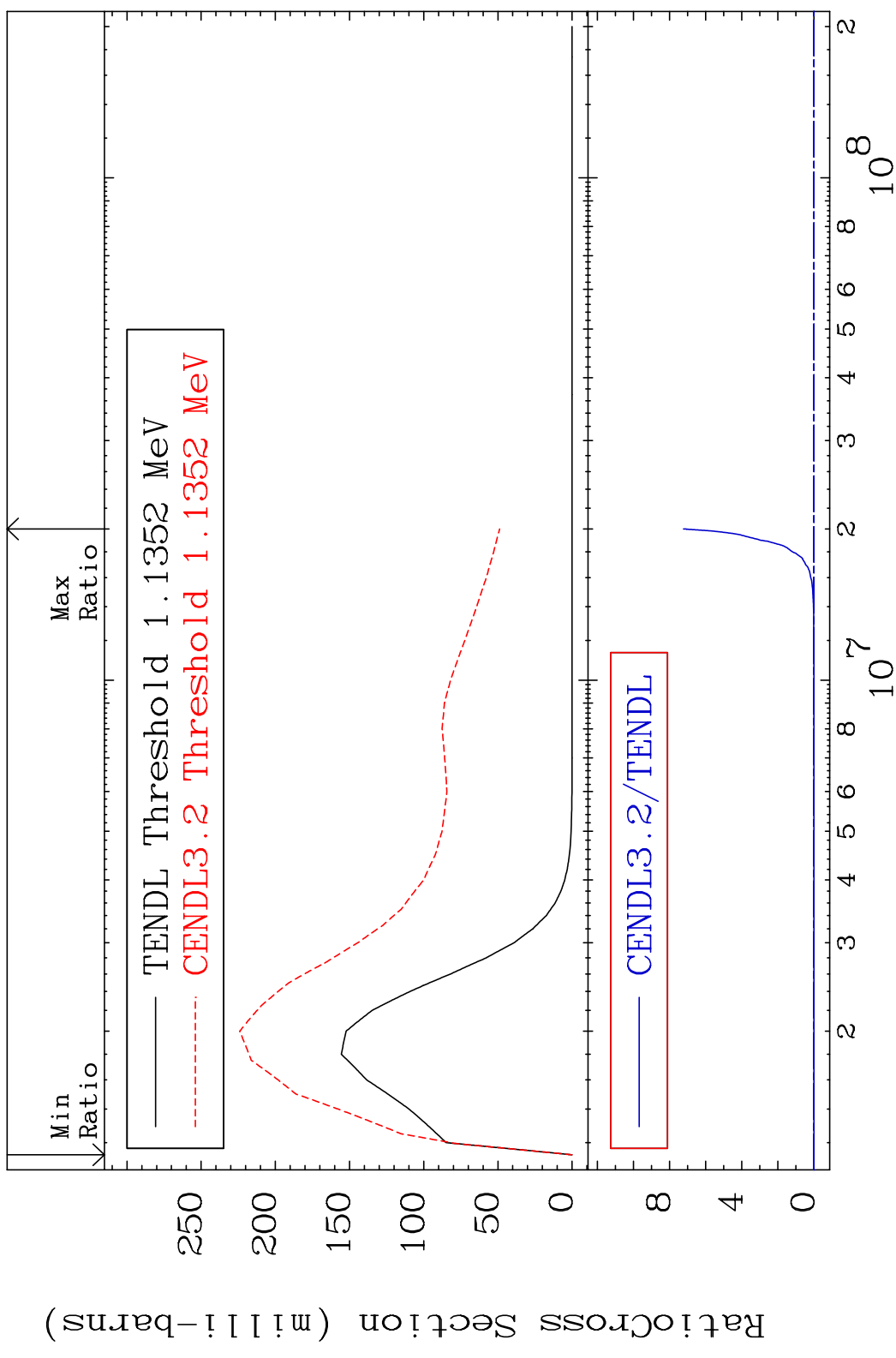
13 Incident Energy (eV) 64-Gd-154

MAT 6431 MT= 57 (n, n') Level 64-Gd-154  
 Cross Section -100.0 To 76.12 %



14 Incident Energy (eV) 64-Gd-154

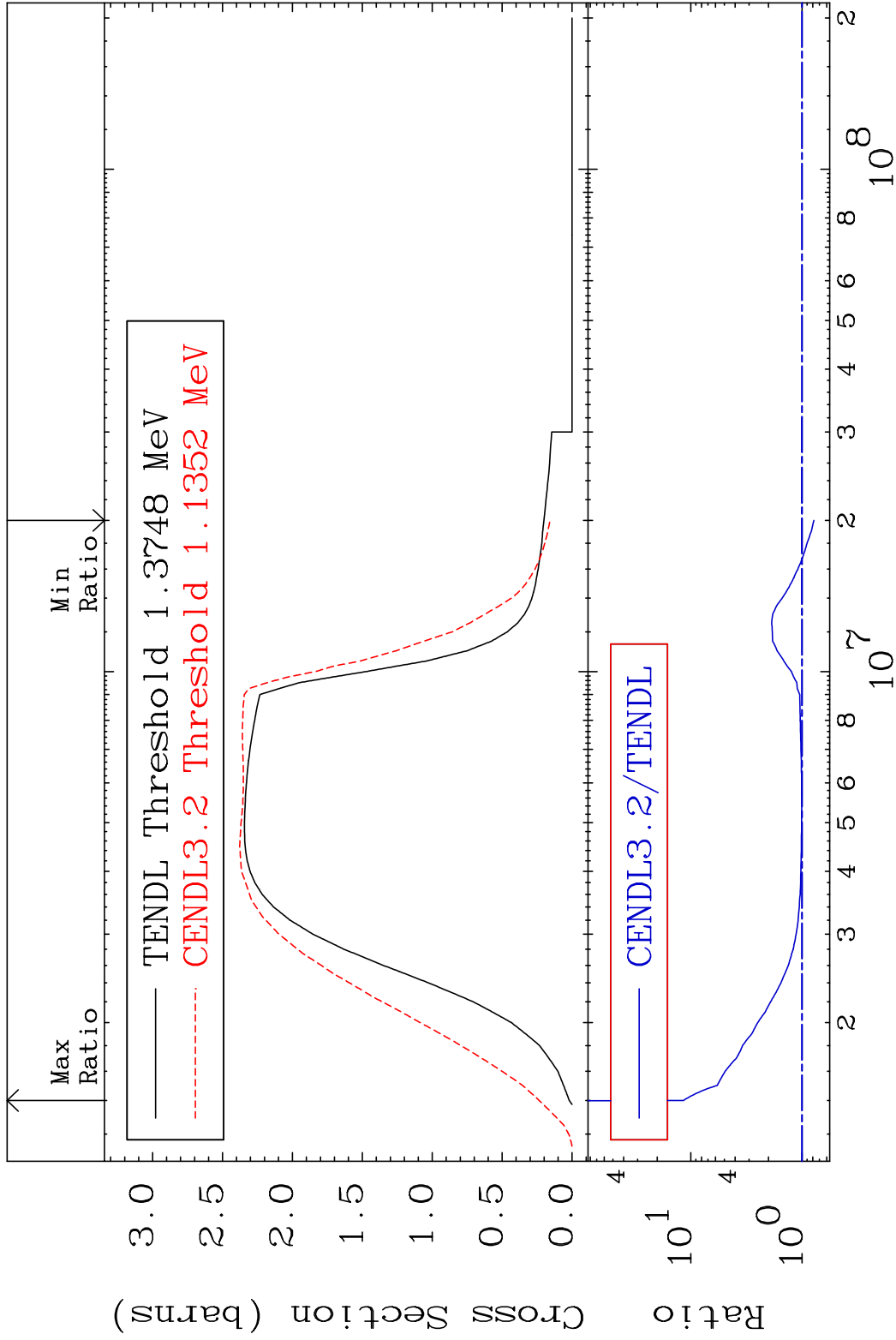
MAT 6431 MT= 58 (n, n') Level 64-Gd-154  
 Cross Section -100.0 To 9999. %



15 Incident Energy (eV) 64-Gd-154



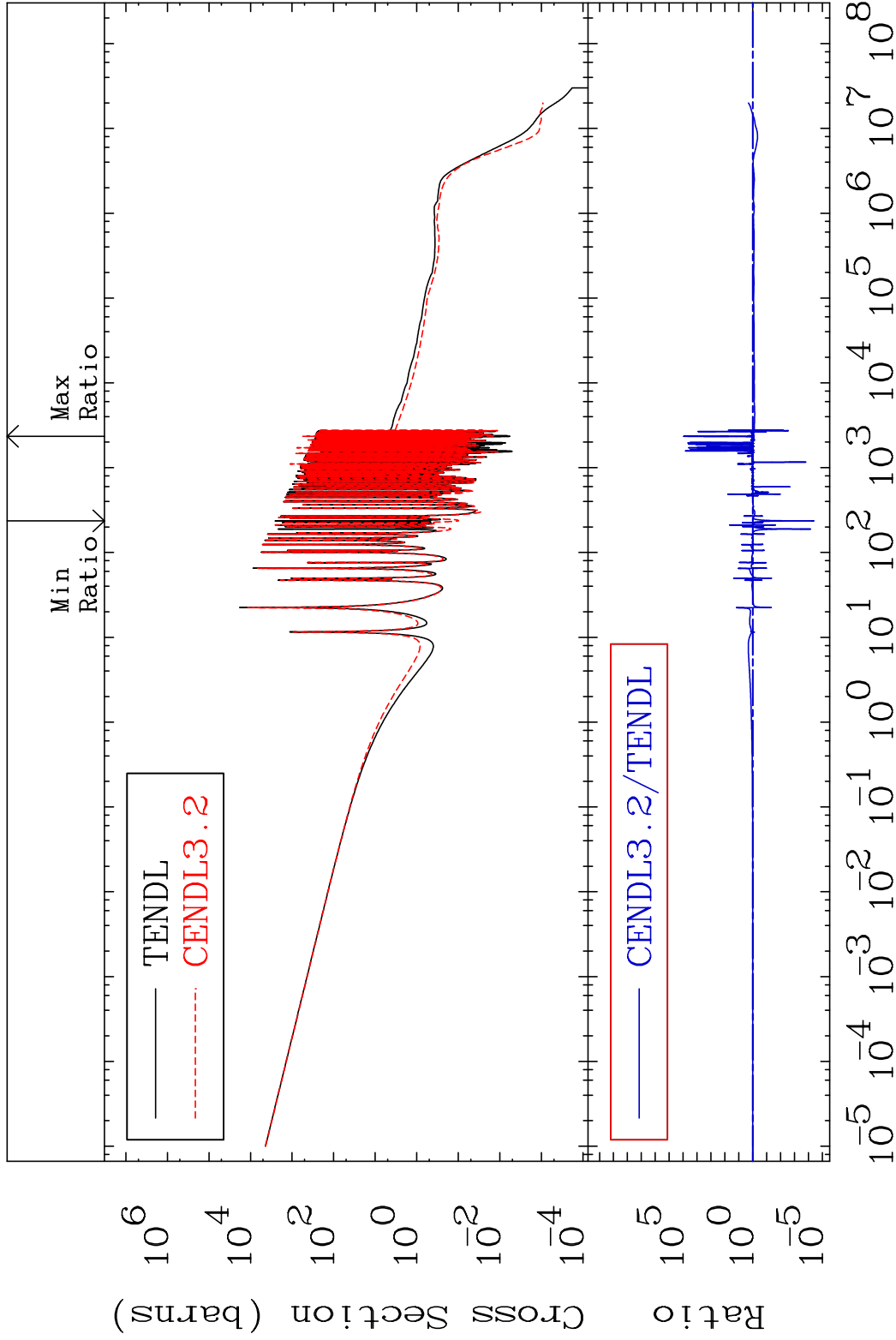
MAT 6431 (n, n') Continuum 64-Gd-154  
 Cross Section -21.66 To 1063. %



16 Incident Energy (eV) 64-Gd-154

MAT 6431

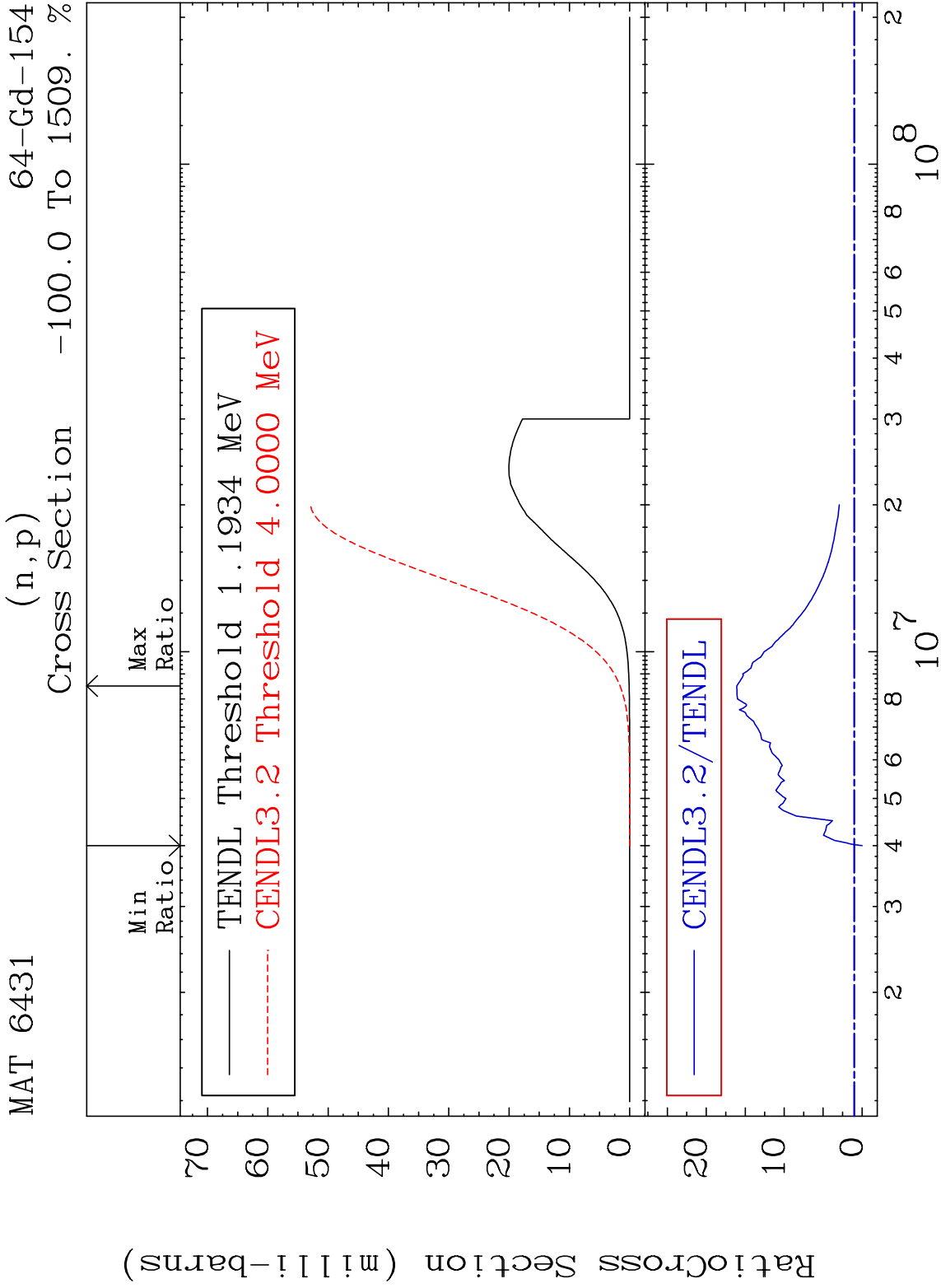
(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %  
64-Gd-154



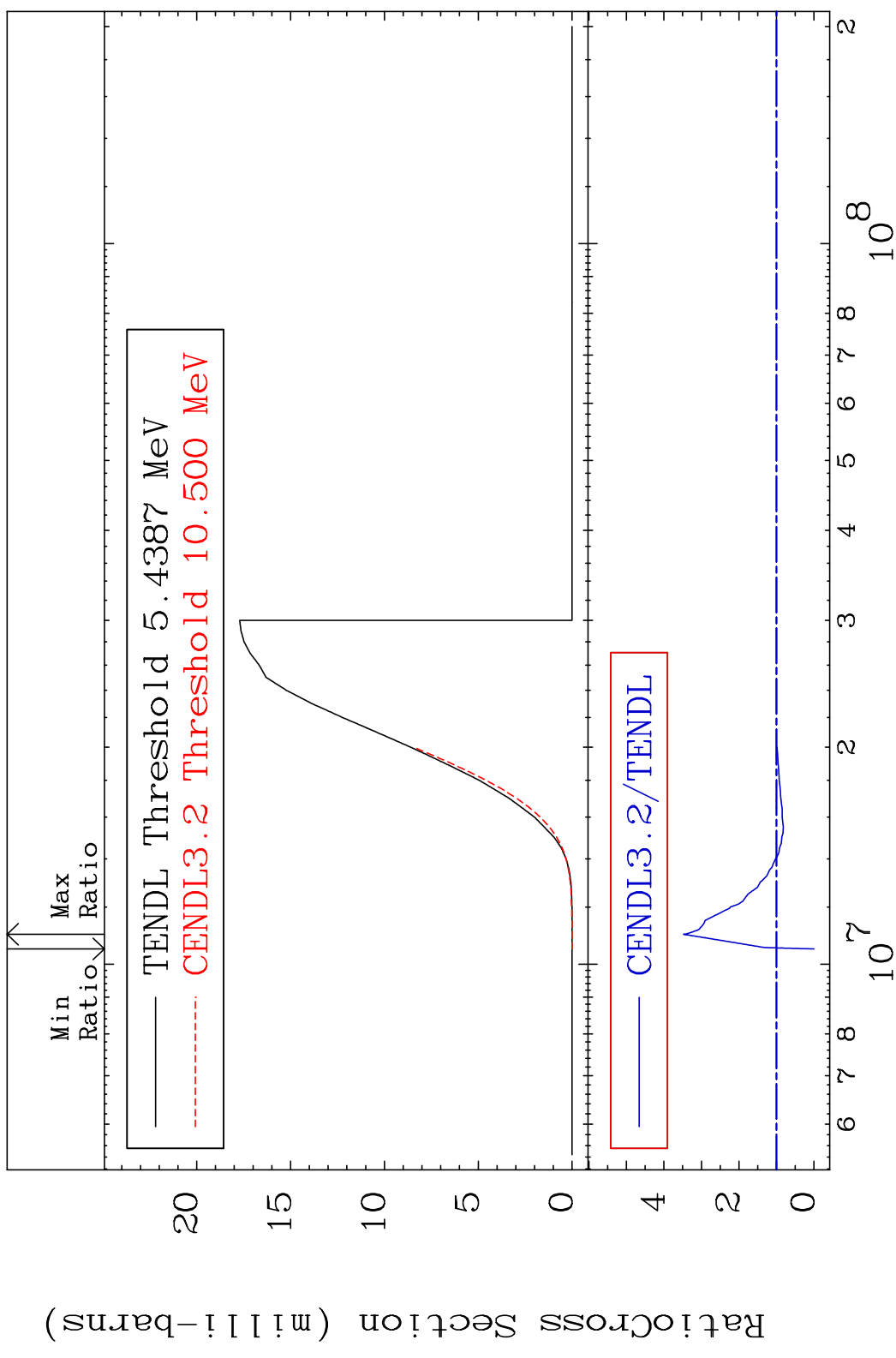
17

Incident Energy (eV)

64-Gd-154

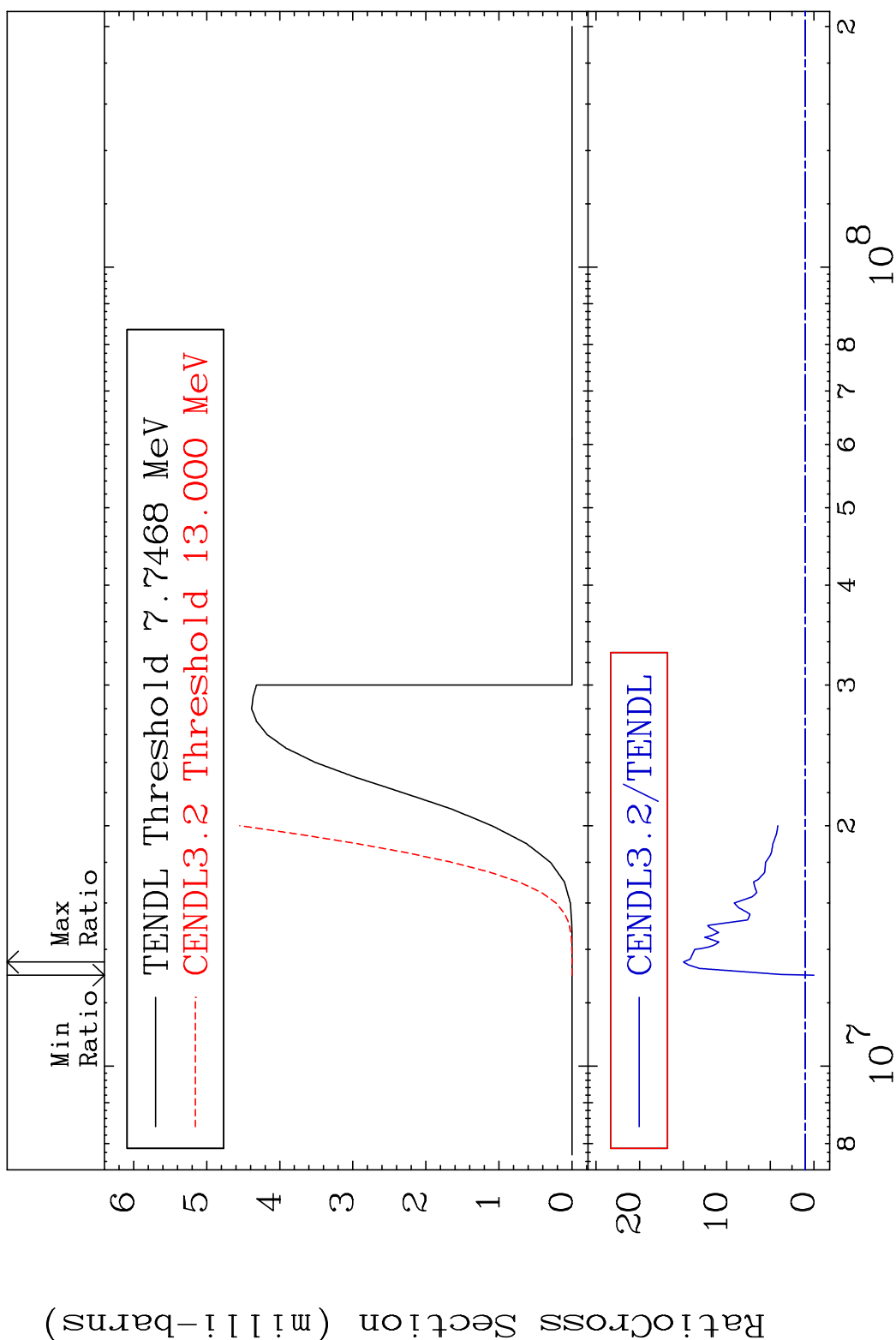


MAT 6431 (n, d) 64-Gd-154  
 Cross Section -100.0 To 248.0 %



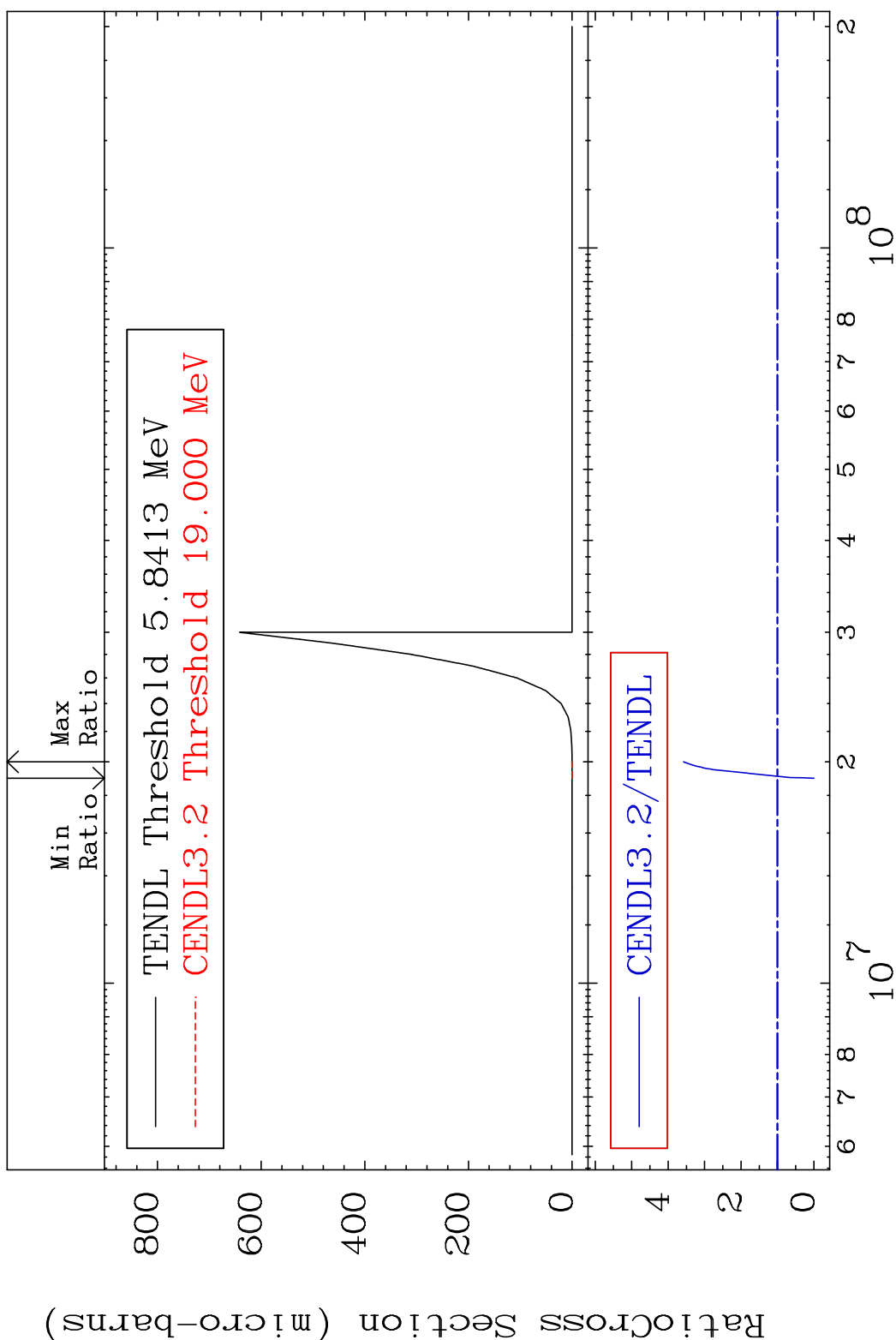
19 64-Gd-154

MAT 6431 (n, t) 64-Gd-154  
 Cross Section -100.0 To 1397. %



20 8 10<sup>7</sup> 2 64-Gd-154

MAT 6431 (n, He-3) 64-Gd-154  
 Cross Section -100.0 To 257.9 %



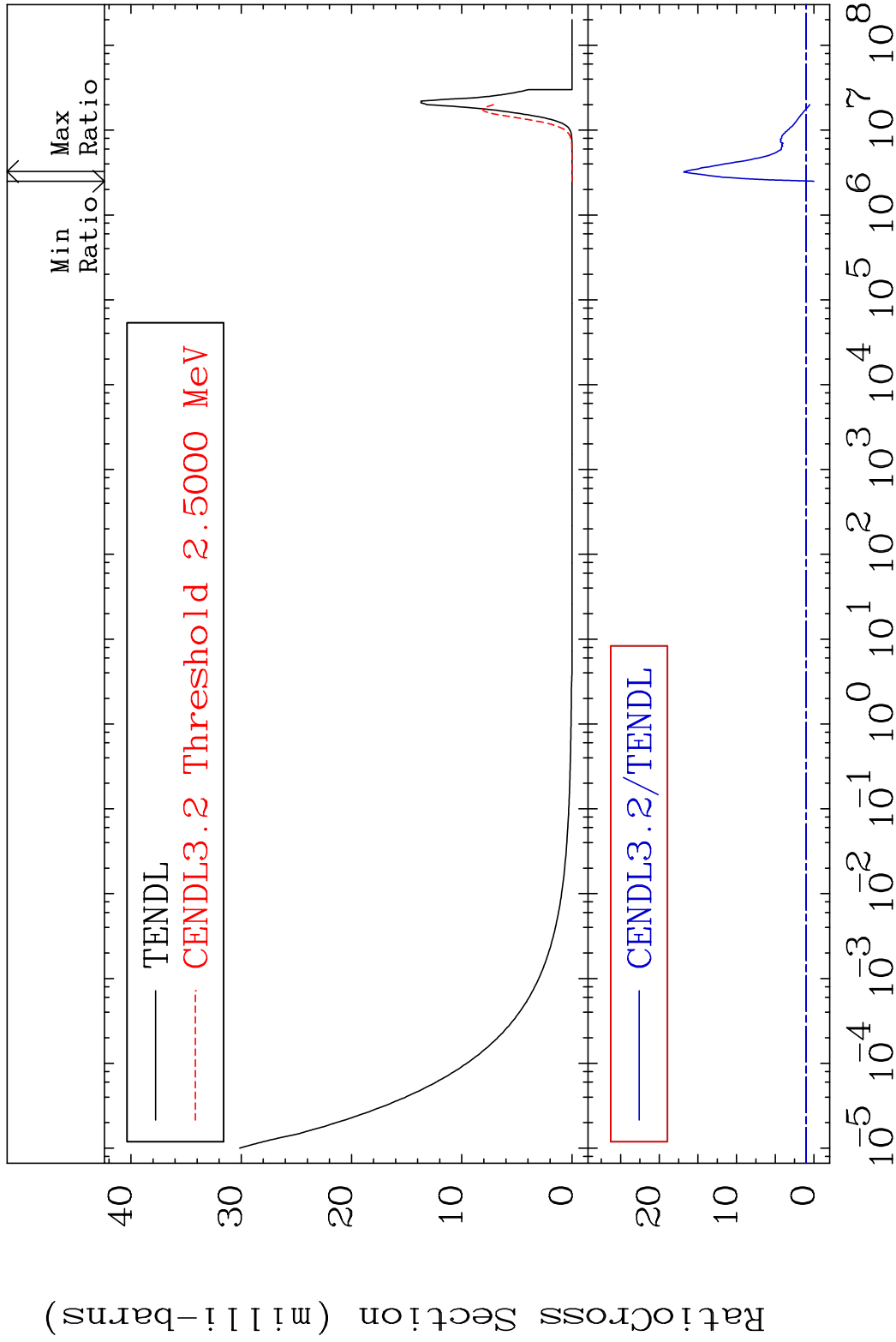
21 64-Gd-154

MAT 6431

(n,  $\alpha$ )

64-Gd-154

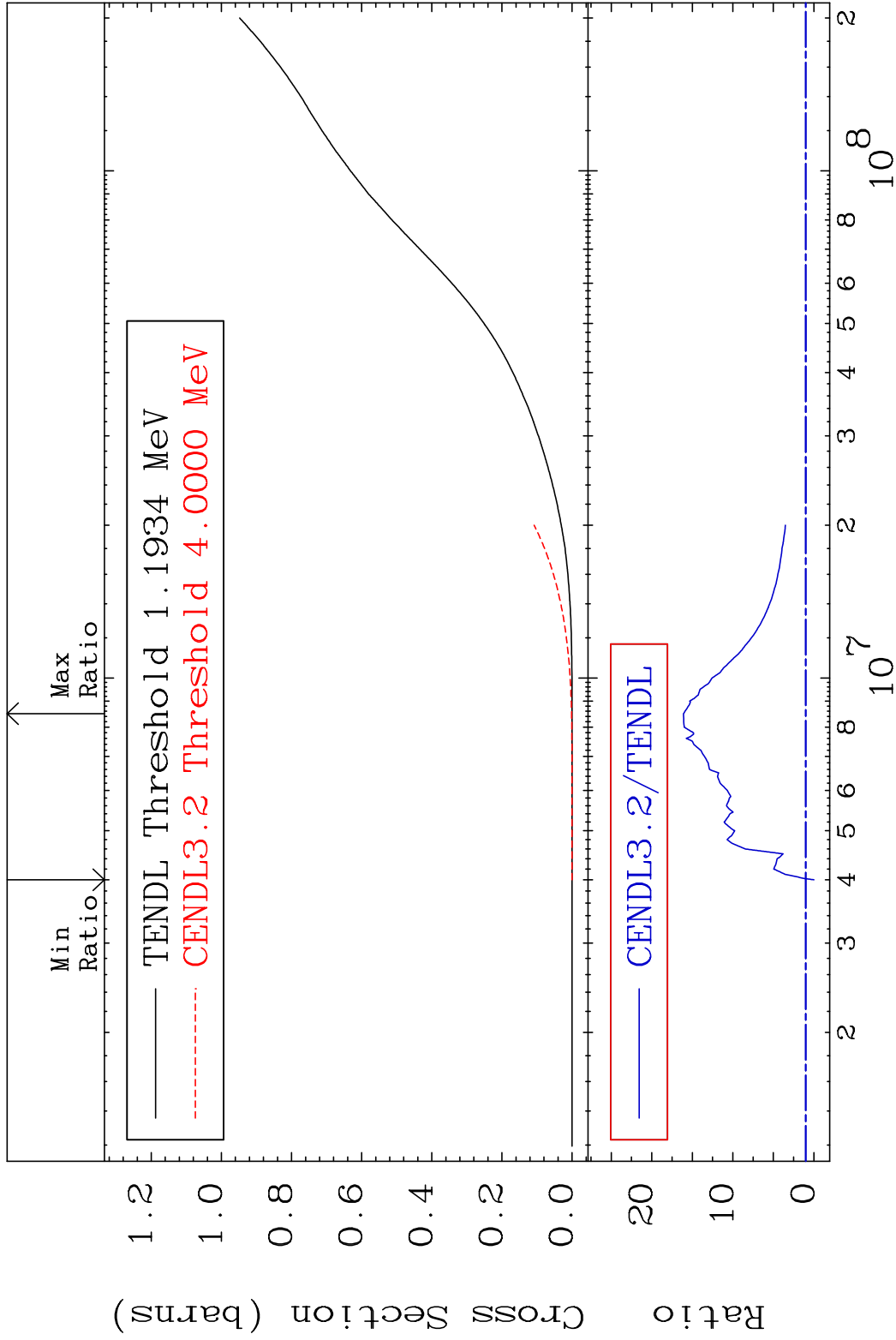
Cross Section -100.0 To 1587. %



22

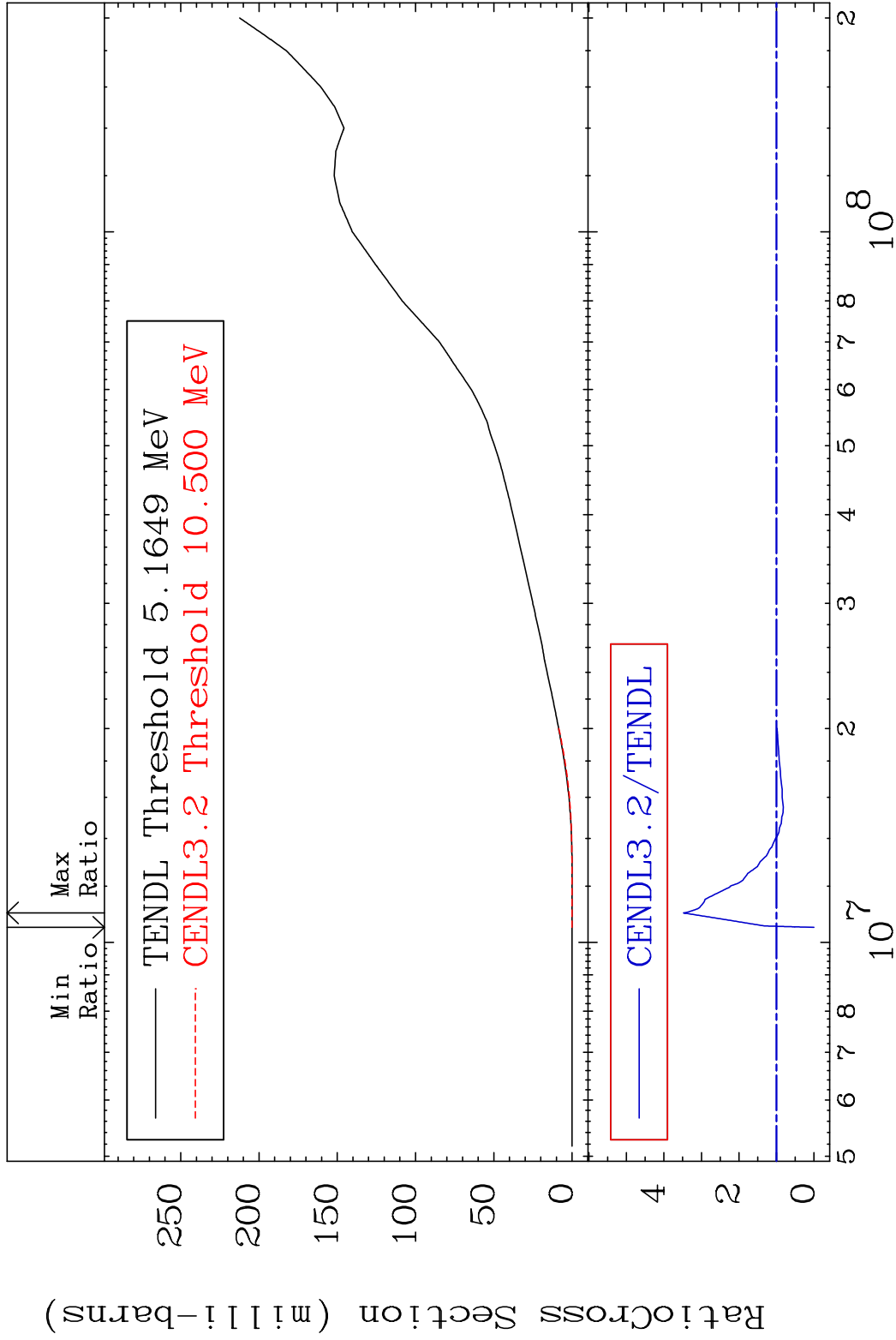
Incident Energy (eV)

64-Gd-154



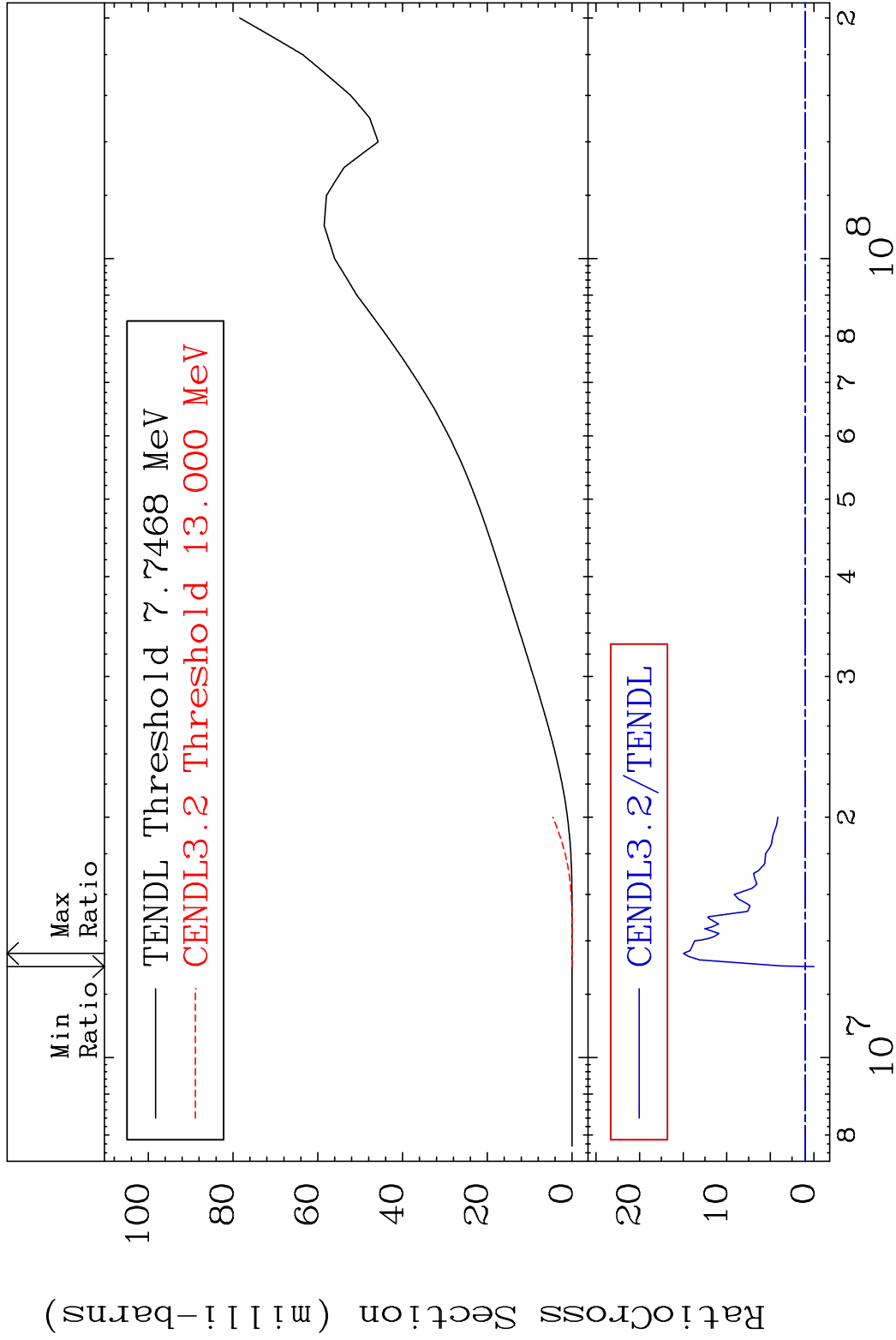


MAT 6431 Deuterium Production 64-Gd-154  
 Cross Section -100.0 To 248.0 %



24 Incident Energy (eV) 64-Gd-154

MAT 6431 Tritium Production 64-Gd-154  
 Cross Section -100.0 To 1397. %



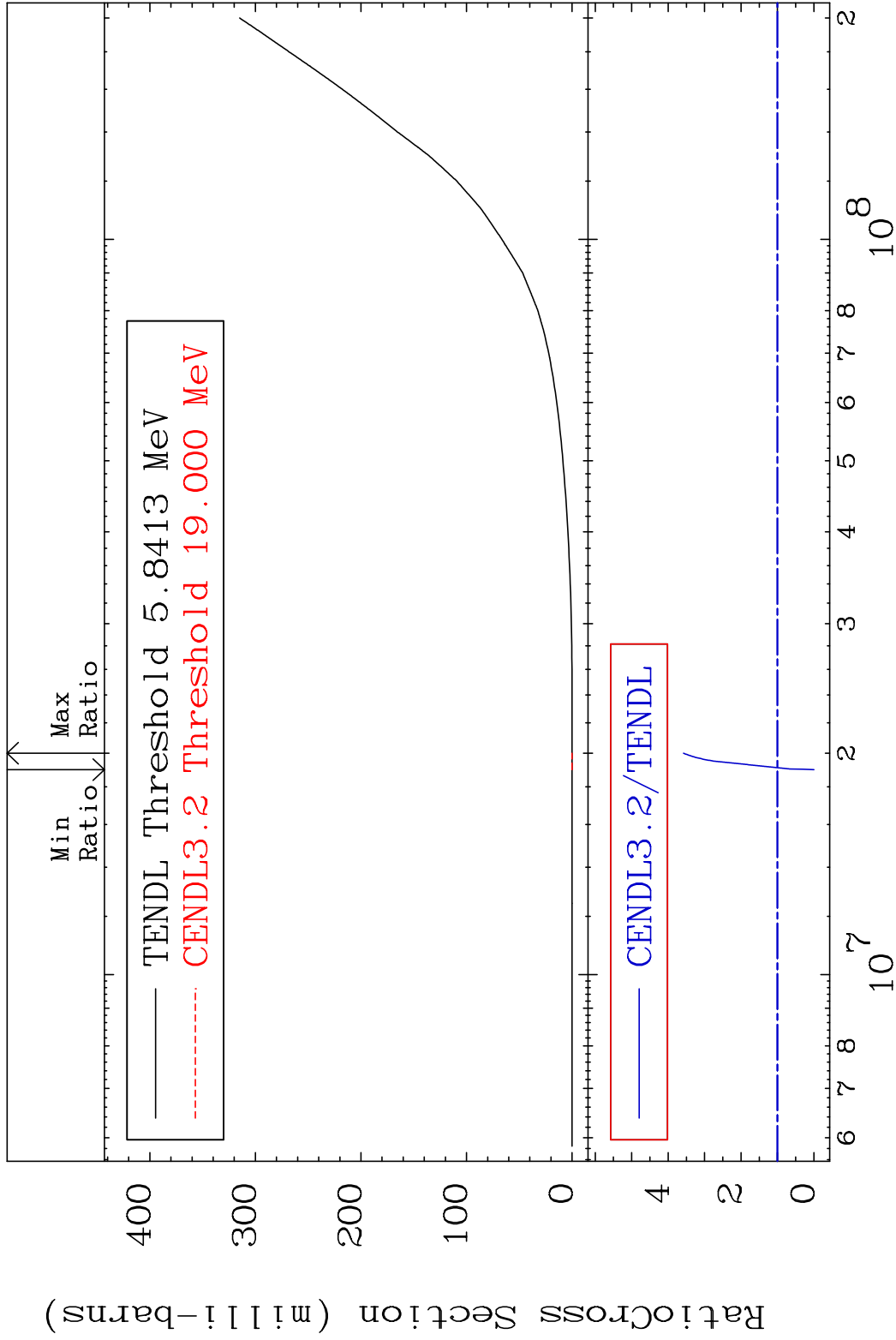
25 64-Gd-154

MAT 6431

He-3 Production

64-Gd-154

Cross Section -100.0 To 257.9 %



26

Incident Energy (eV)

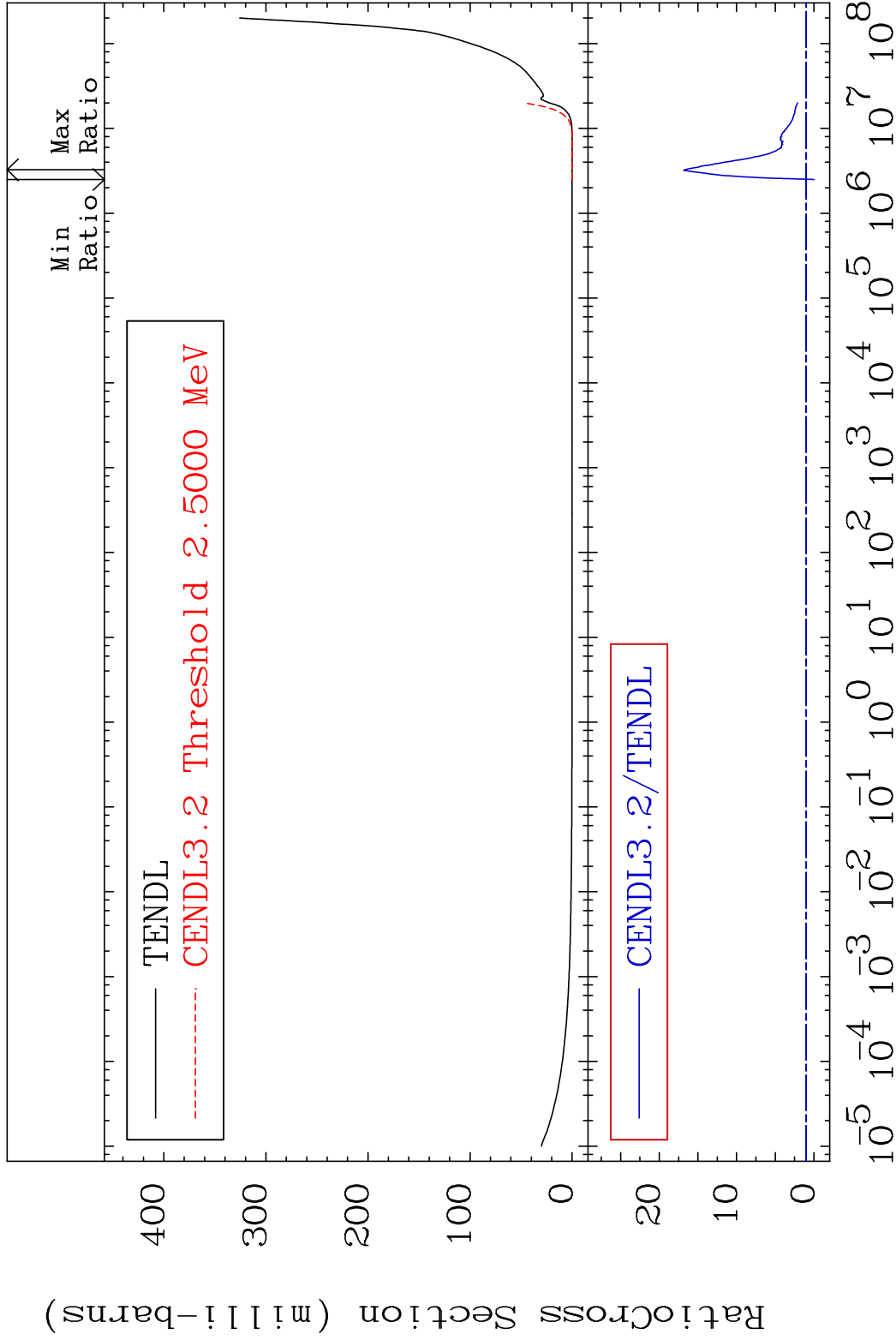
64-Gd-154

MAT 6431

He-4 Production

64-Gd-154

Cross Section -100.0 To 1587. %

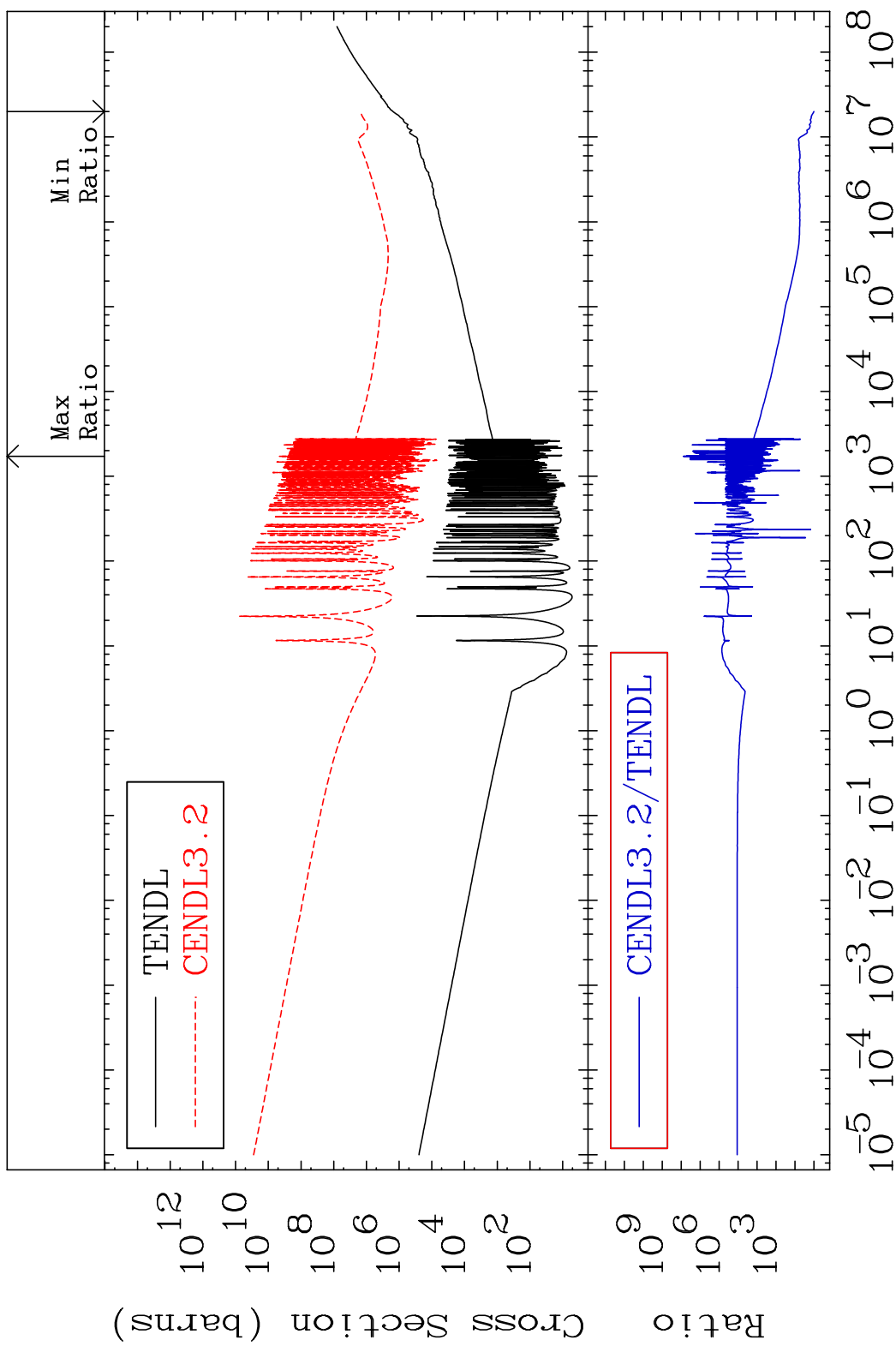


27

Incident Energy (eV)

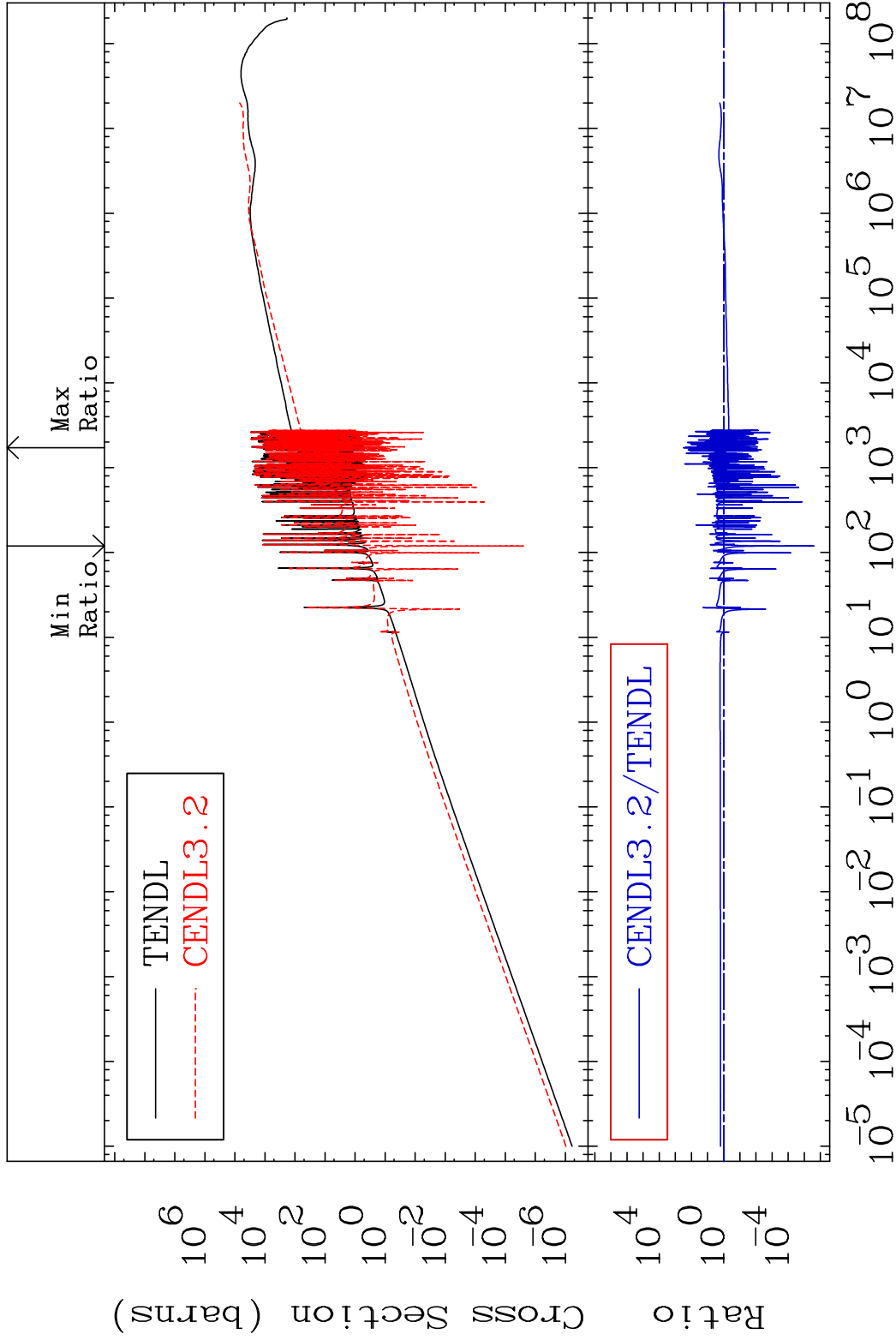
64-Gd-154

MAT 6431 Kerma total (eV-barns) 64-Gd-154  
 Cross Section 917.9 To 9999. %

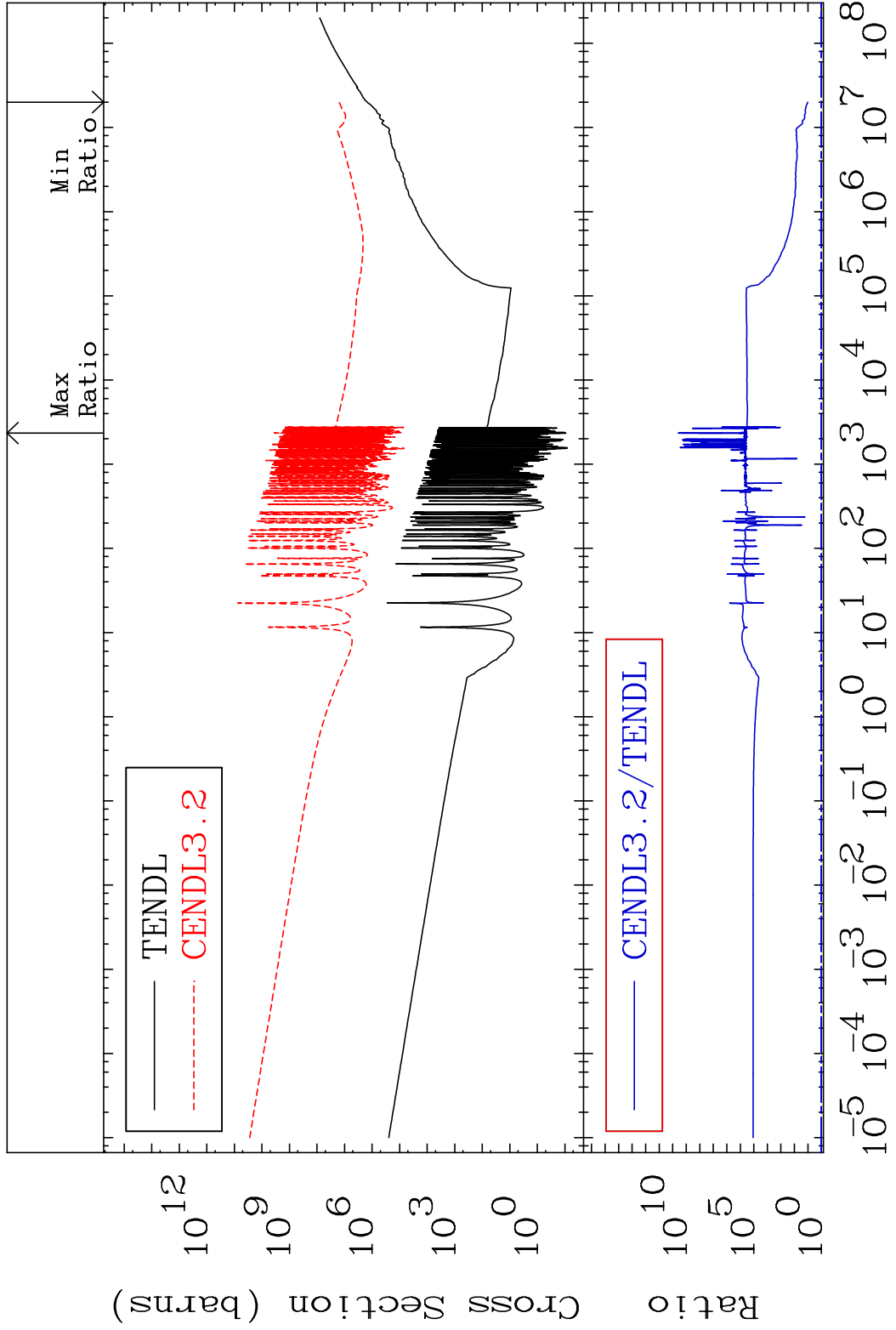


28 Incident Energy (eV) 64-Gd-154

MAT 6431      Kerma elastic      64-Gd-154  
 Cross Section      -100.0 To 9999. %

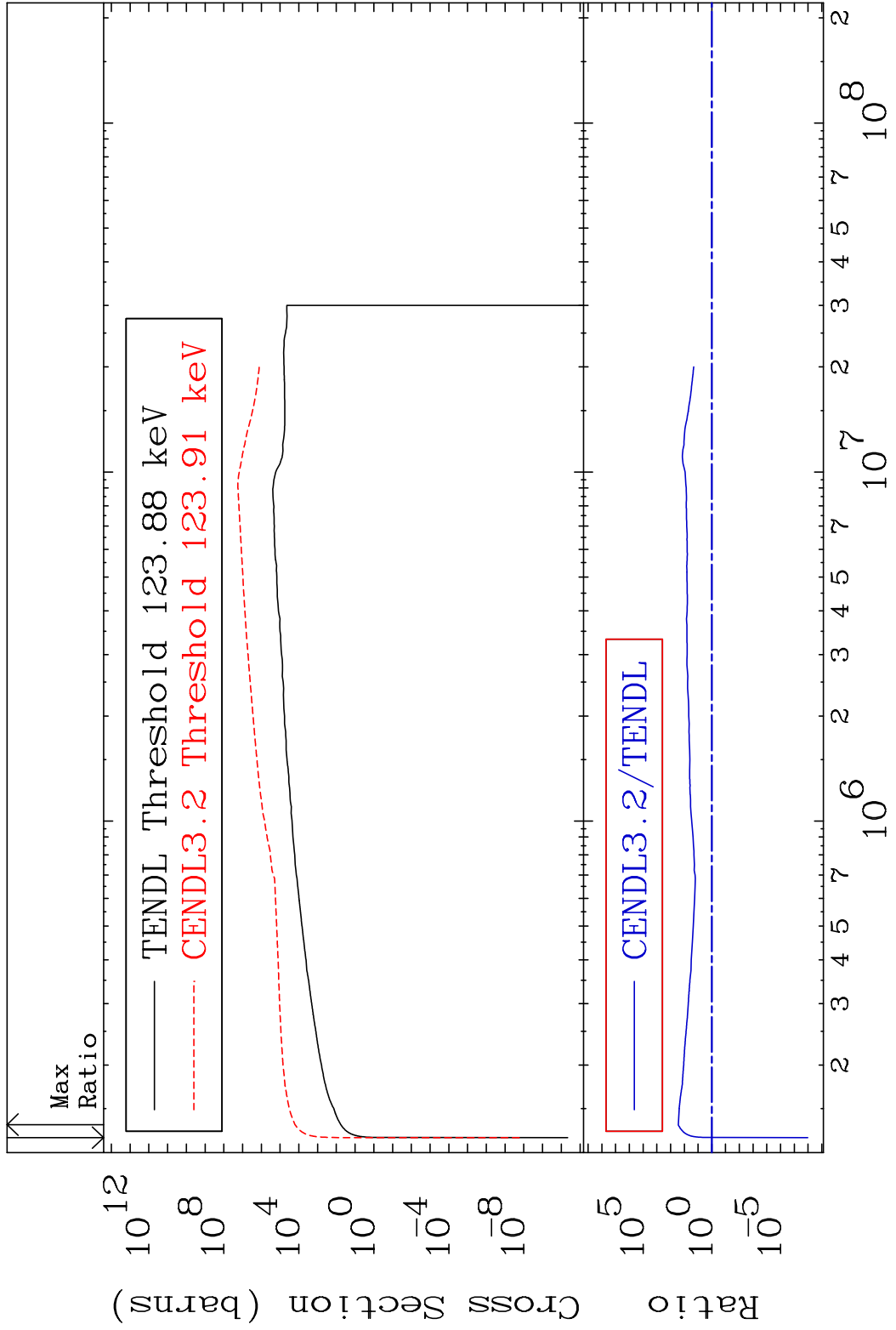


MAT 6431 Kerma non-elastic (all but mt2) 64-Gd-154  
 Cross Section 939.8 To 9999. %



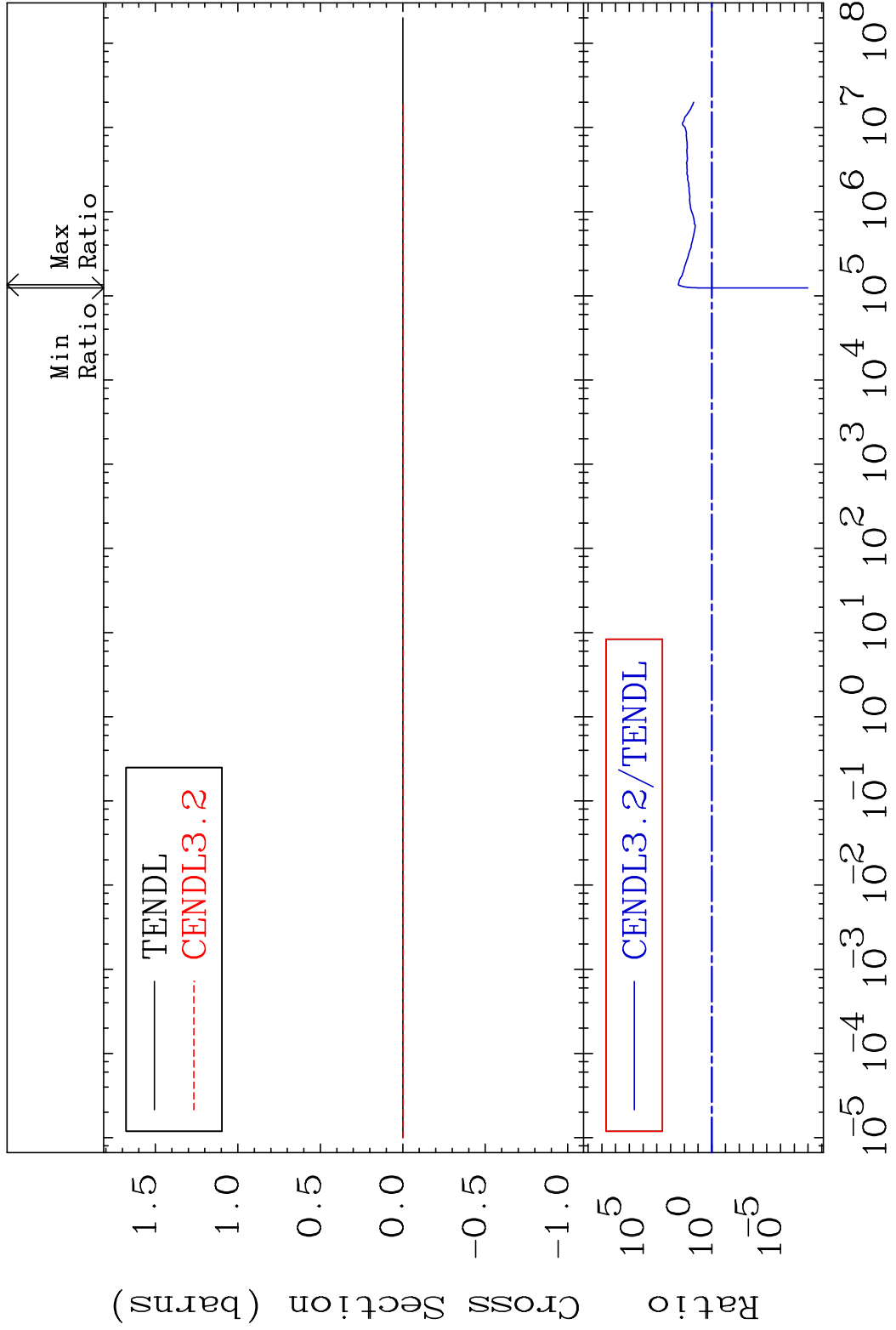
30 Incident Energy (eV) 64-Gd-154

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

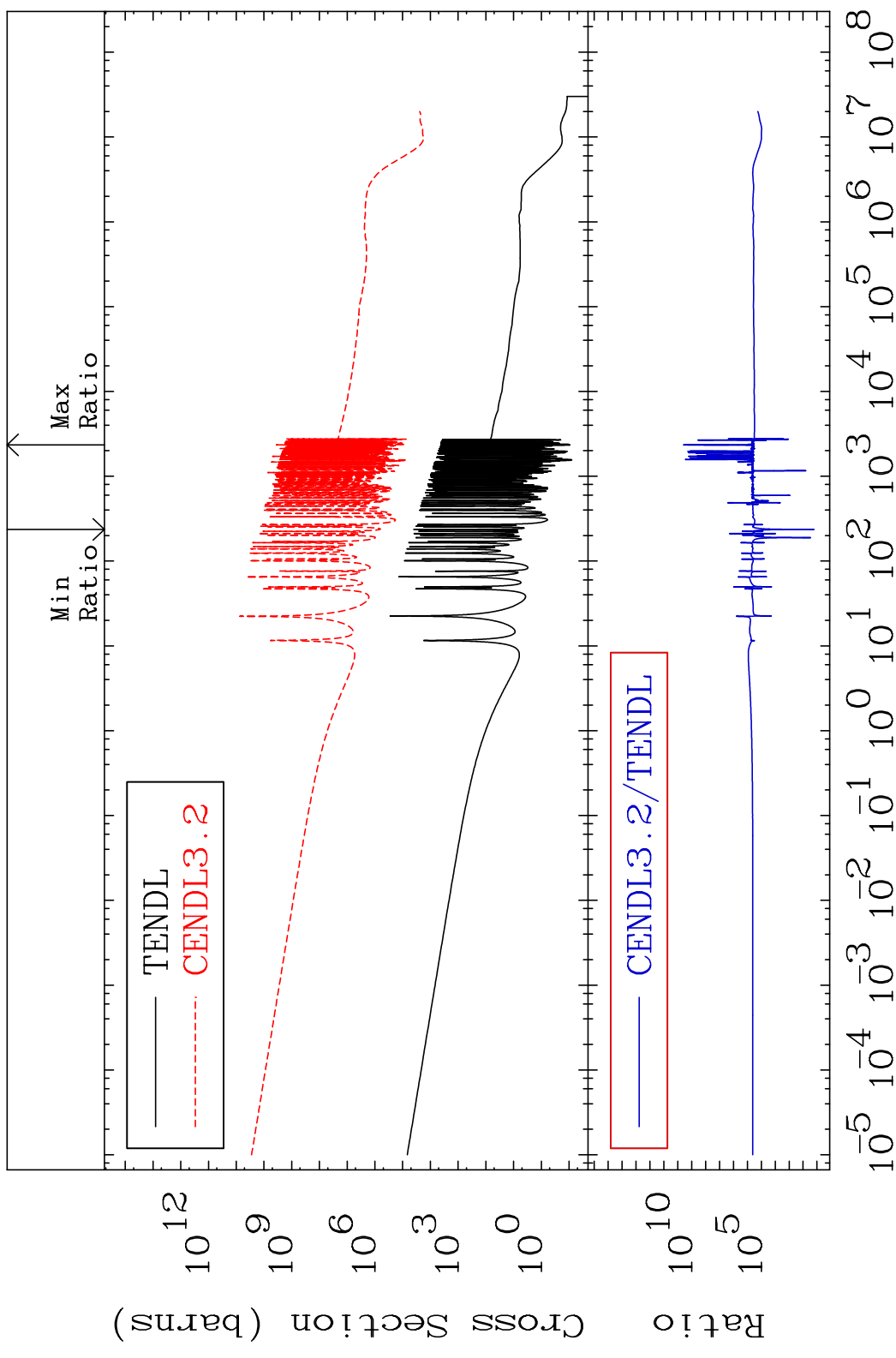




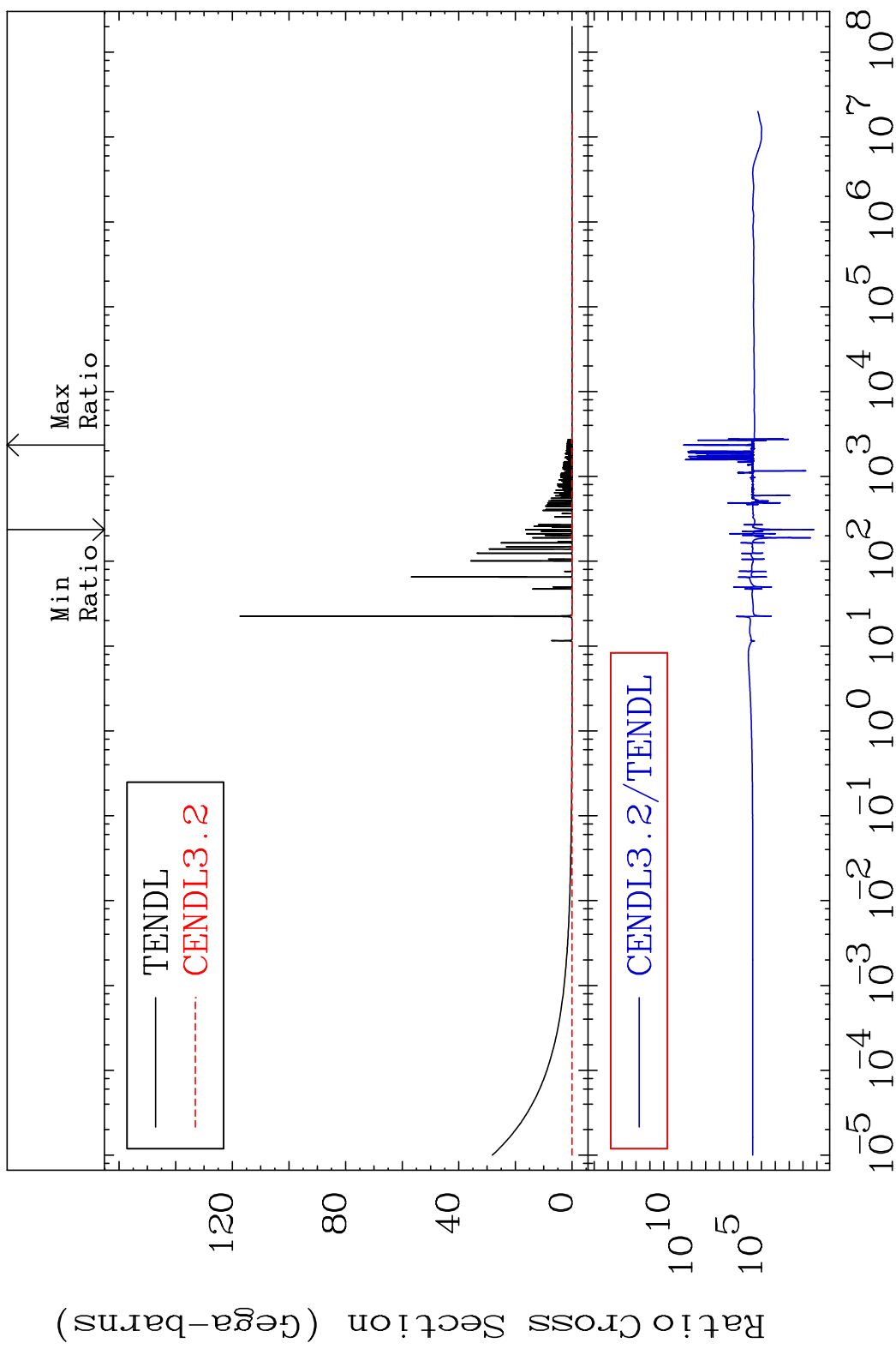
MAT 6431 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-154  
 Cross Section -100.0 To 9999. %



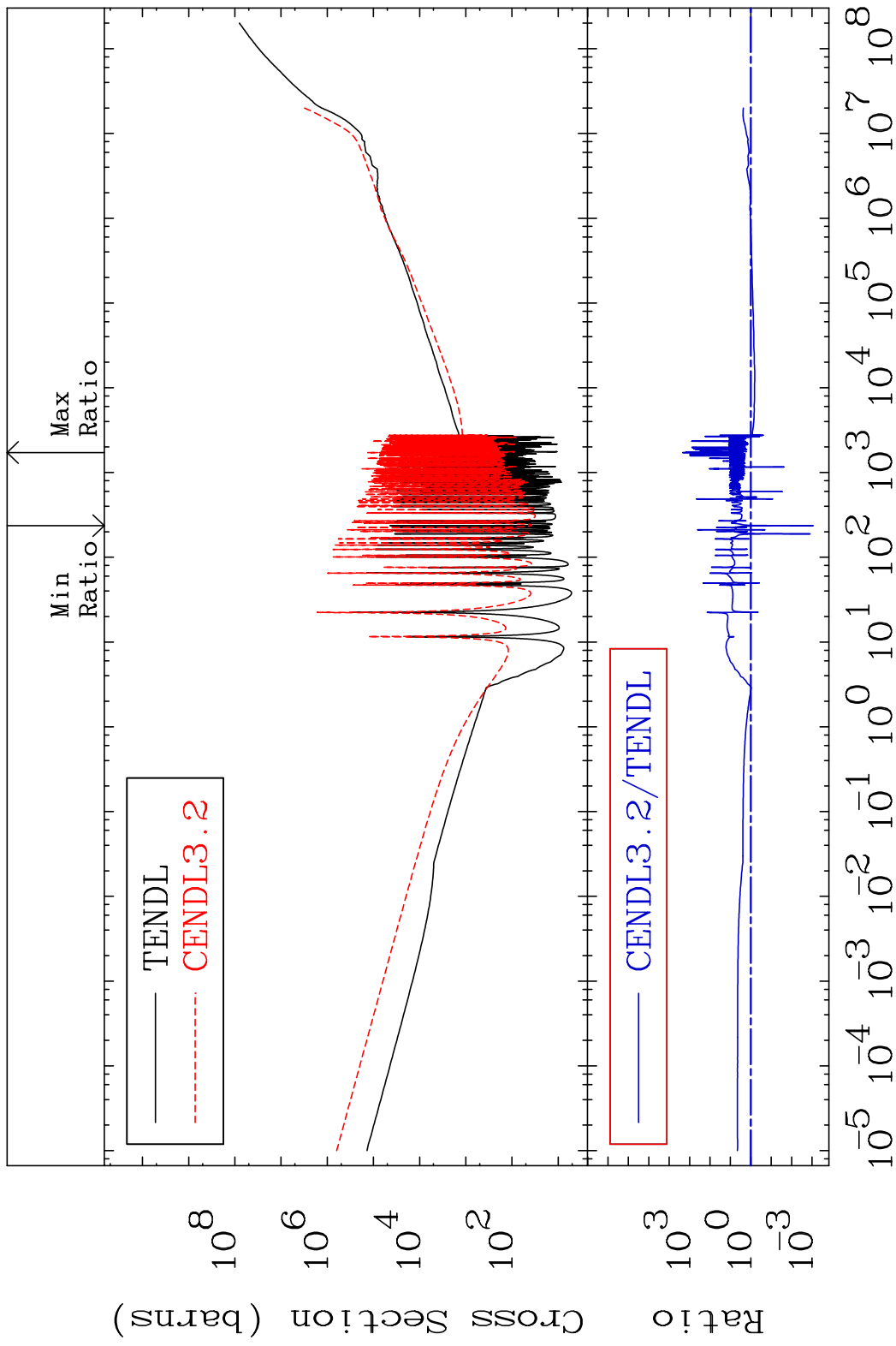
MAT 6431 Kerma capture (mt102) 64-Gd-154  
 Cross Section 1574. To 9999. %



MAT 6431 Total photon (eV-barns) 64-Gd-154  
 Cross Section 1574. To 9999. %

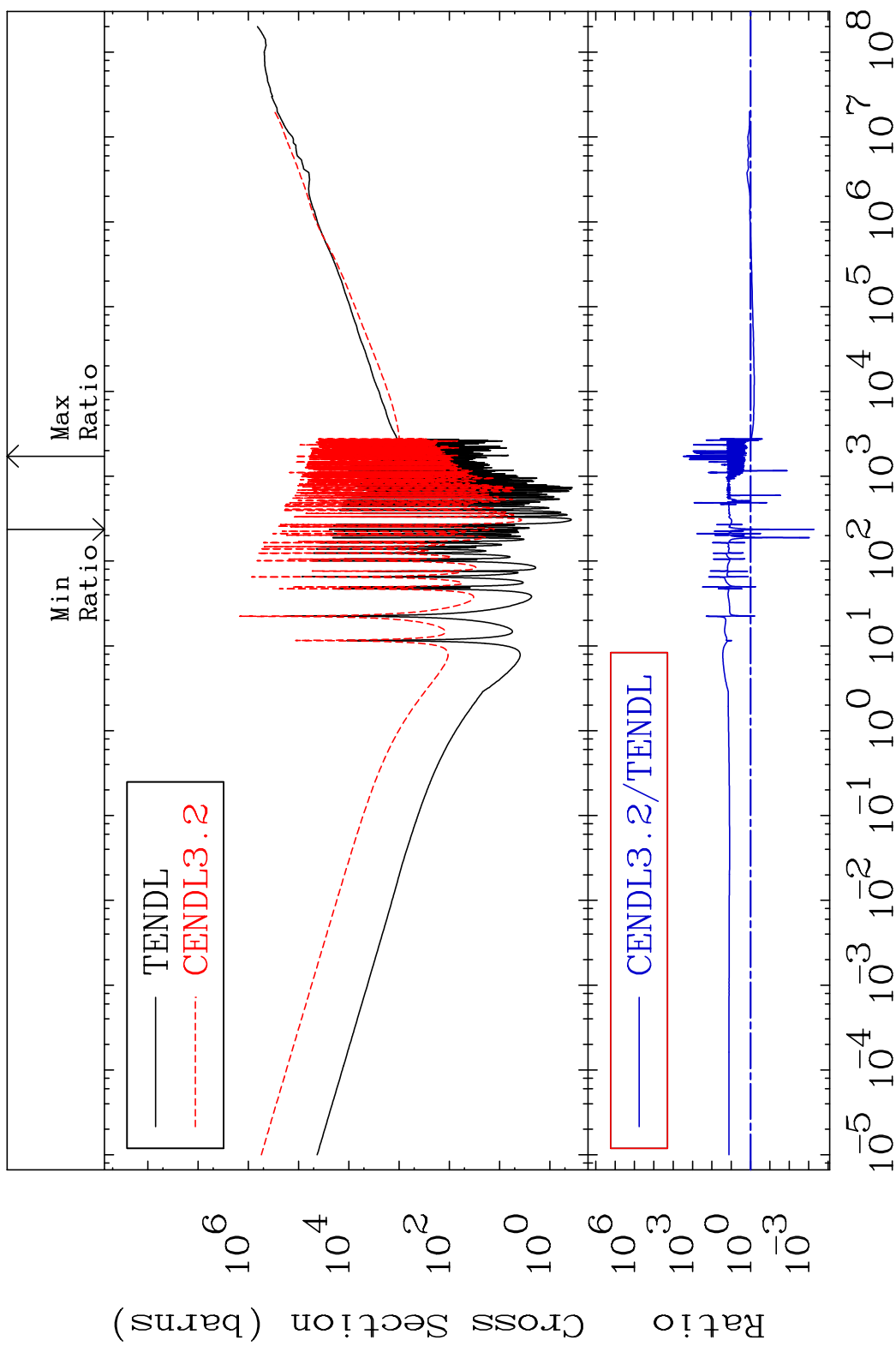


MAT 6431 Total kinematic kerma (high limit) 64-Gd-154  
 Cross Section -99.91 To 9999. %



35 Incident Energy (eV) 64-Gd-154

MAT 6431      Dpa total (eV-barns)      64-Gd-154  
 Cross Section      -99.95 To 9999. %



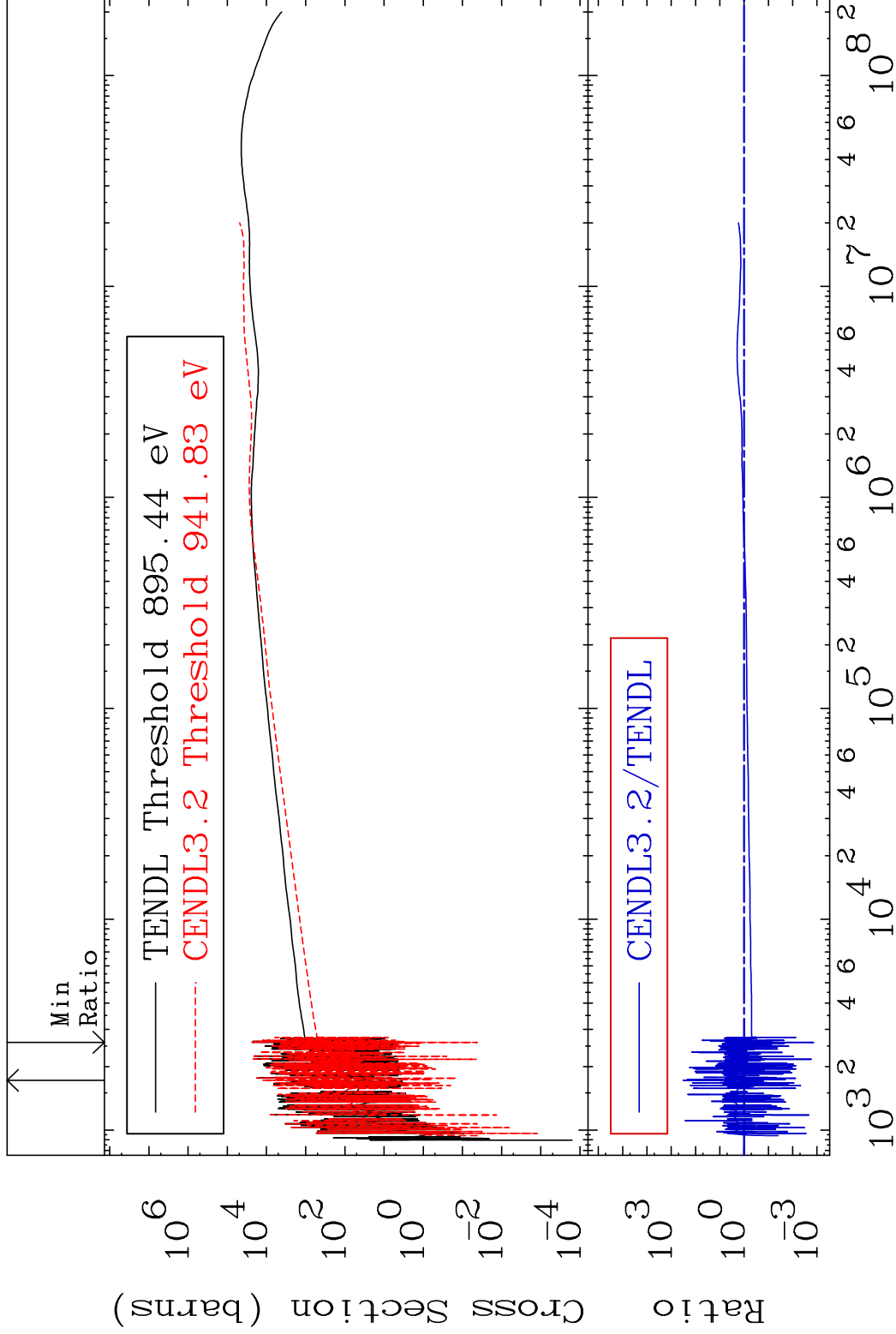
36      Incident Energy (eV)      64-Gd-154

MAT 6431

Dpa elastic (mt2)

64-Gd-154

Cross Section -99.87 To 9999. %

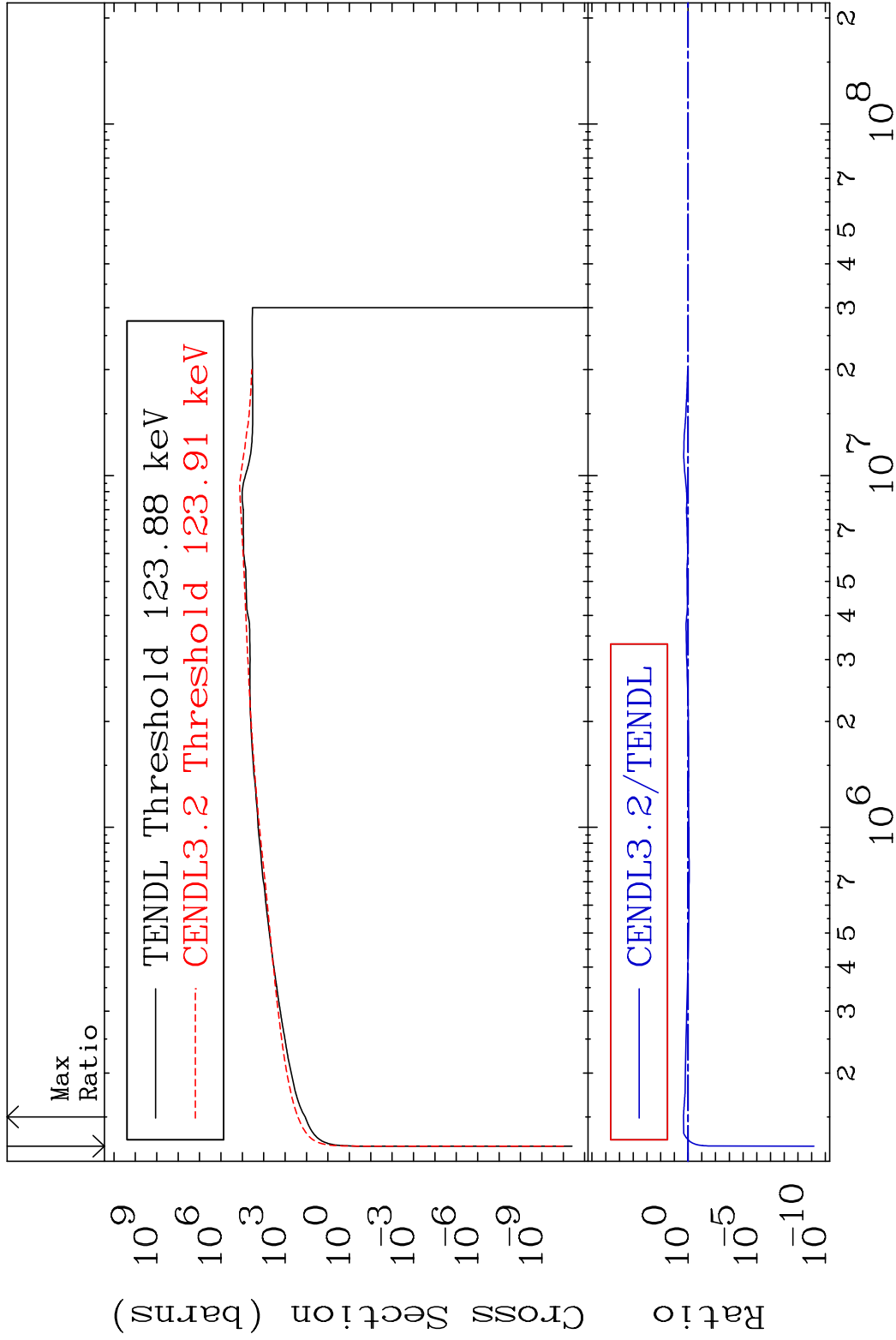


37

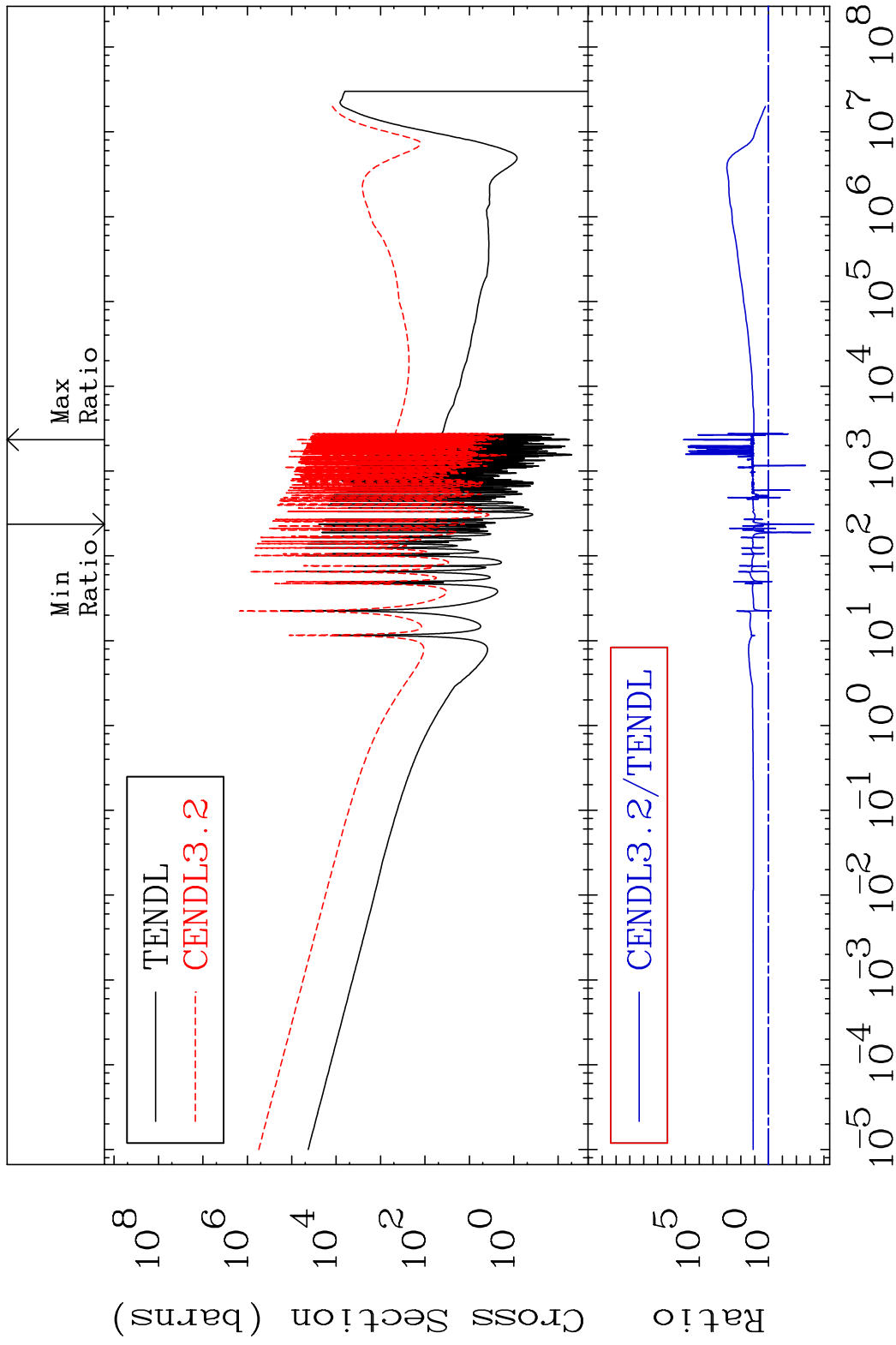
Incident Energy (eV)

64-Gd-154

MAT 6431      Dpa inelastic (mt51-91)      64-Gd-154  
 Cross Section      -100.0 To 118.0 %



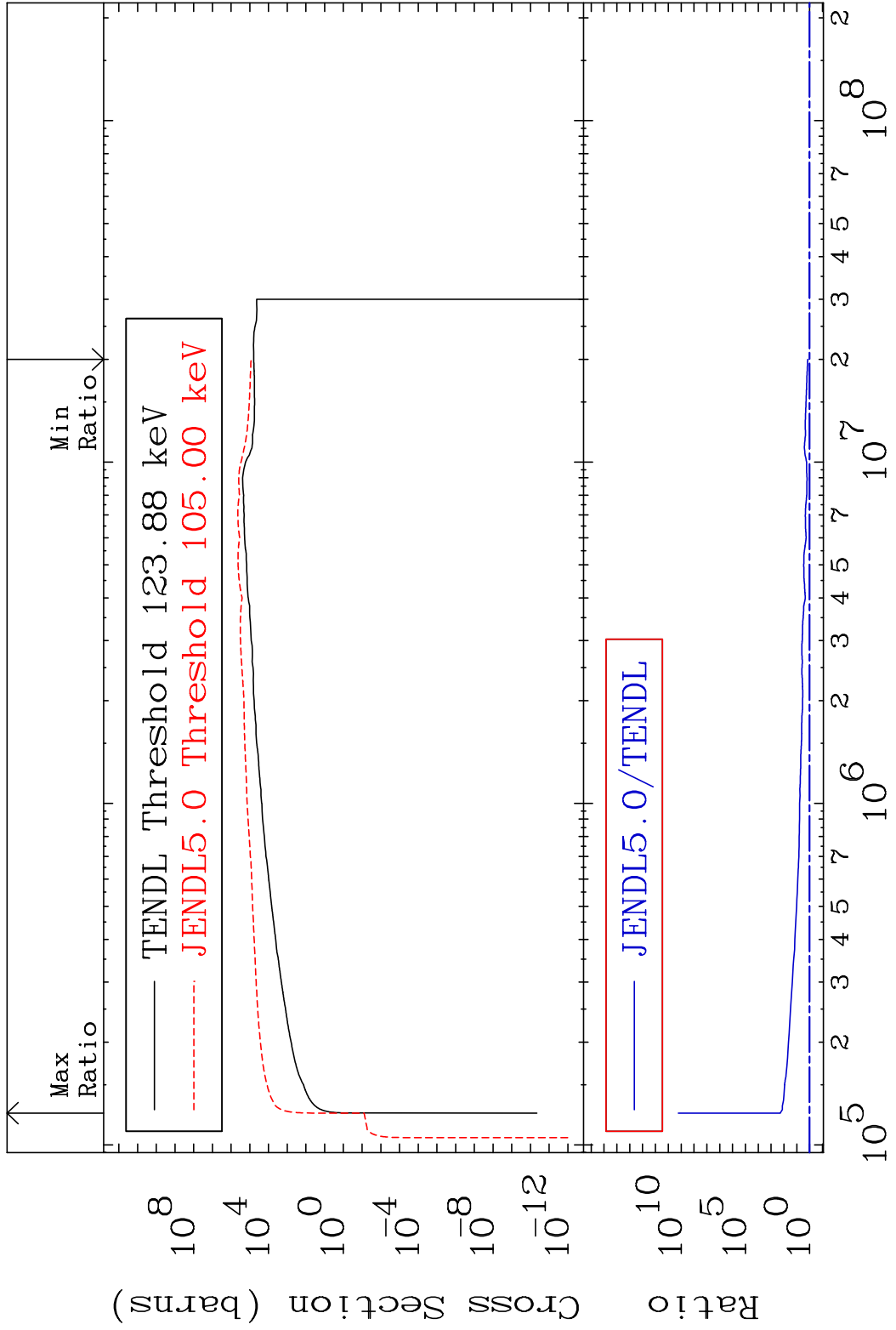
MAT 6431 Dpa disappearance (mt102 -120) 64-Gd-154  
 Cross Section -99.95 To 9999. %



39 Incident Energy (eV) 64-Gd-154

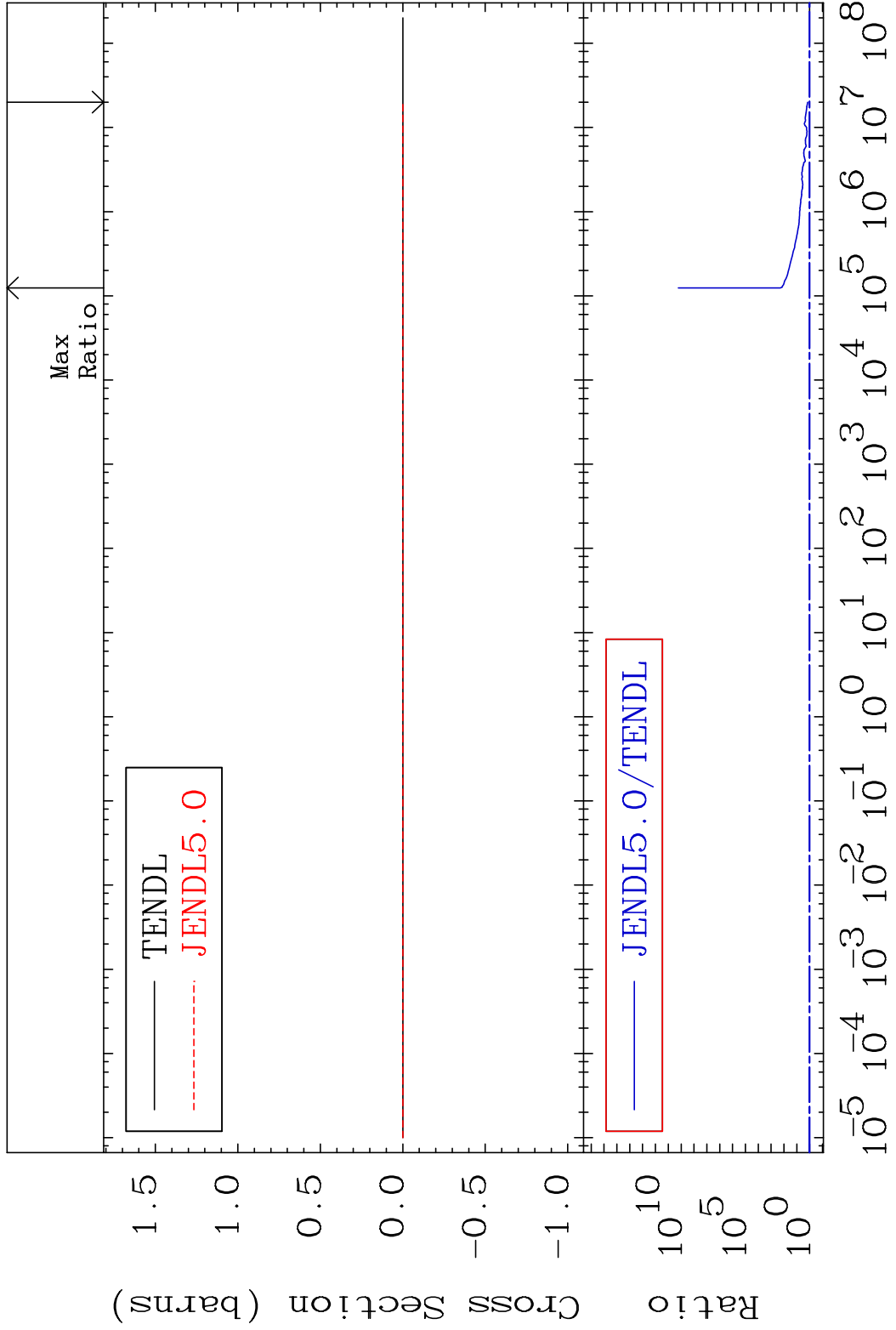


MAT 6431 Kerma inelastic (mt51-91) 64-Gd-154  
 Cross Section 41.14 To 9999. %

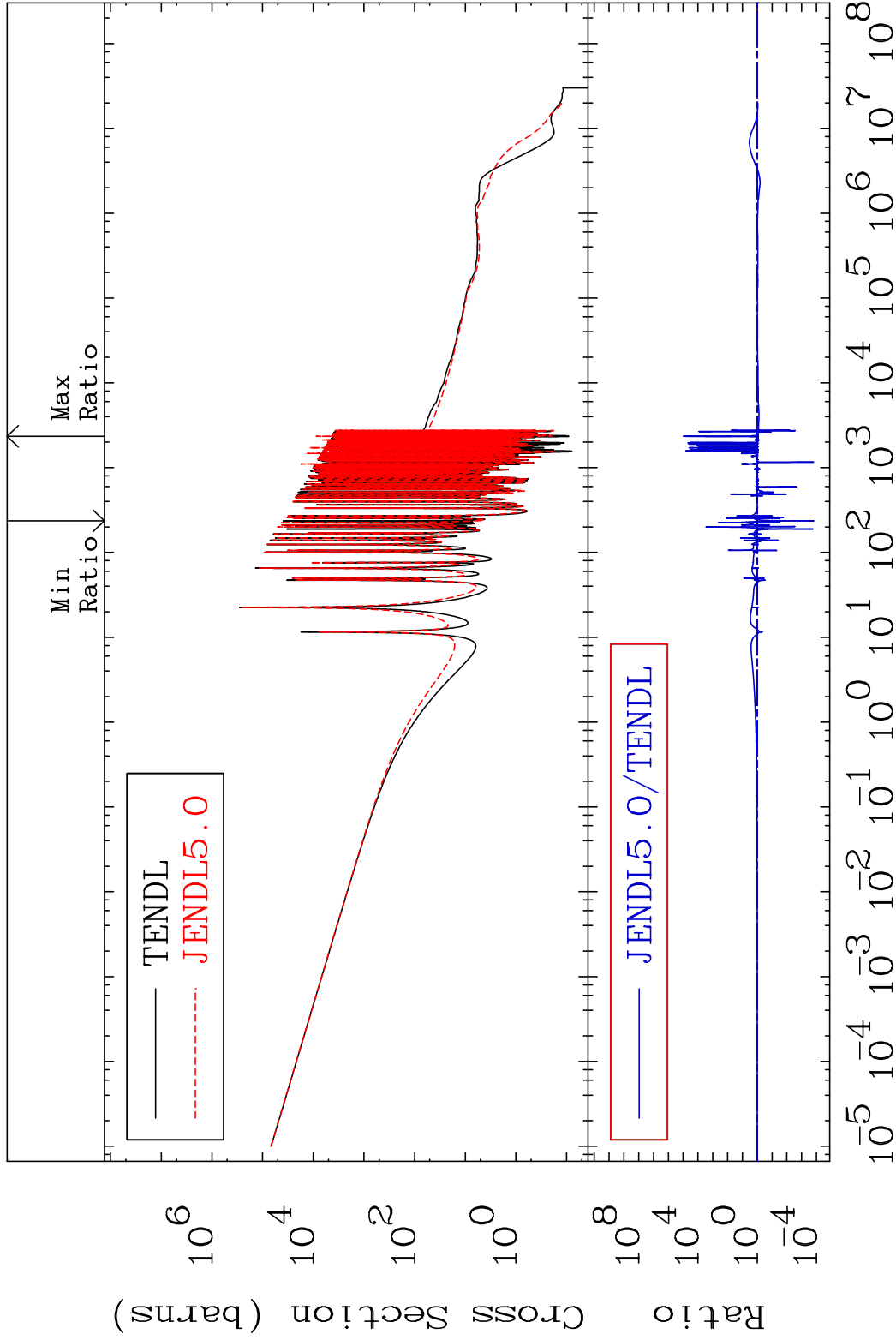


40 Incident Energy (eV) 64-Gd-154

MAT 6431 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-154  
 Cross Section 41.14 To 9999. %

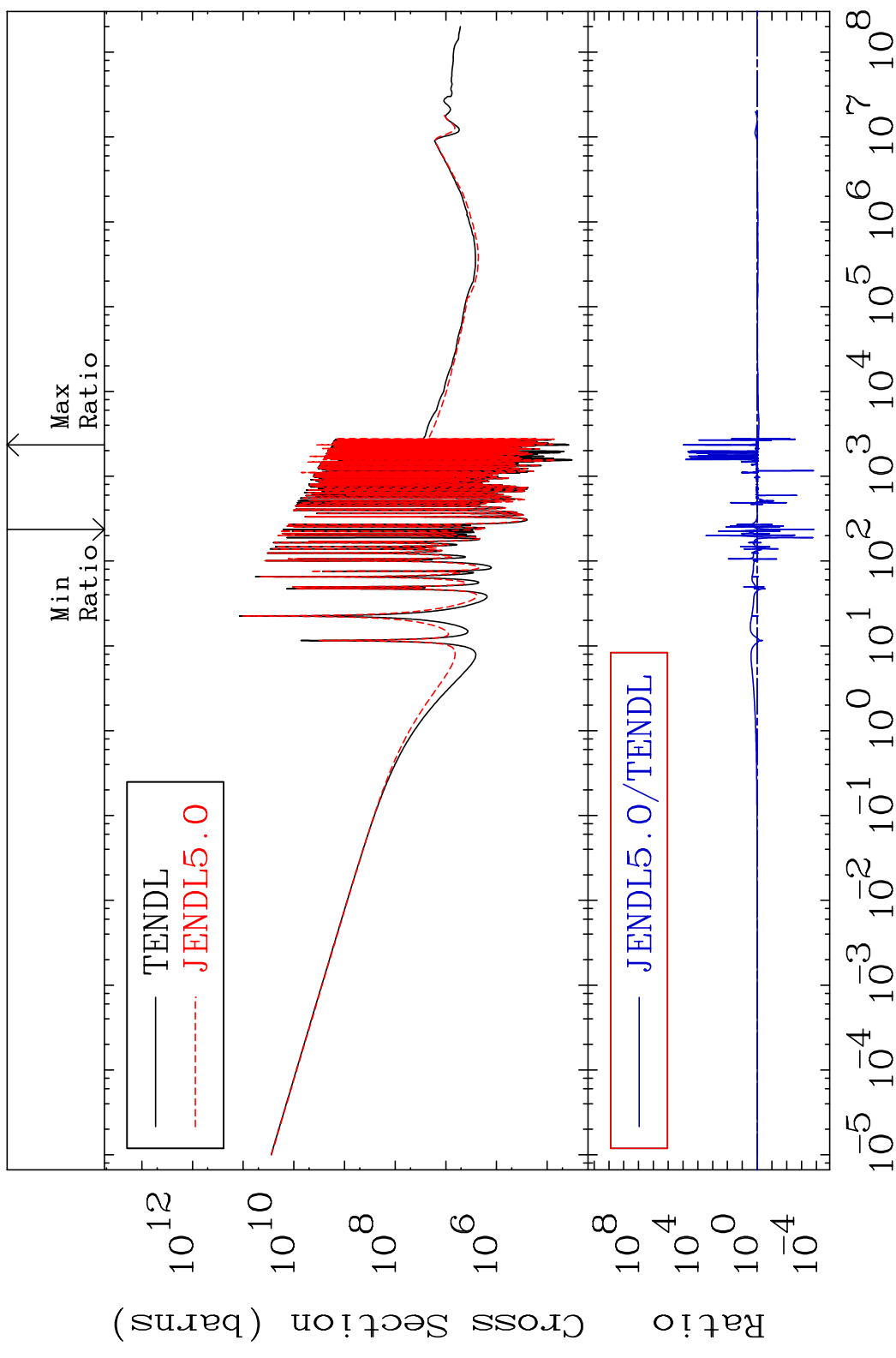


MAT 6431 Kerma capture (mt102) 64-Gd-154  
 Cross Section -99.99 To 9999. %



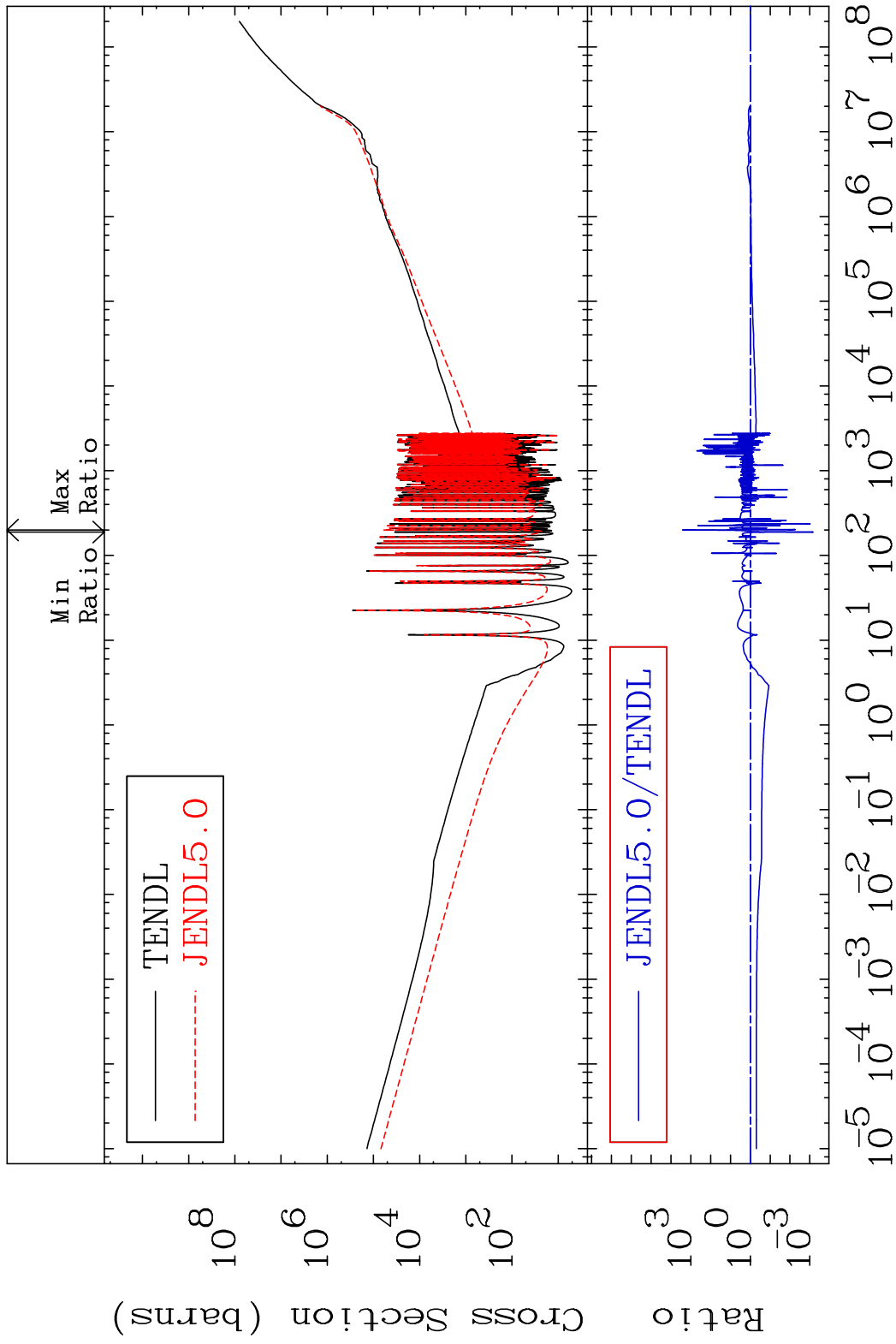
42 Incident Energy (eV) 64-Gd-154

MAT 6431 Total photon (eV-barns) 64-Gd-154  
 Cross Section -99.99 To 9999. %

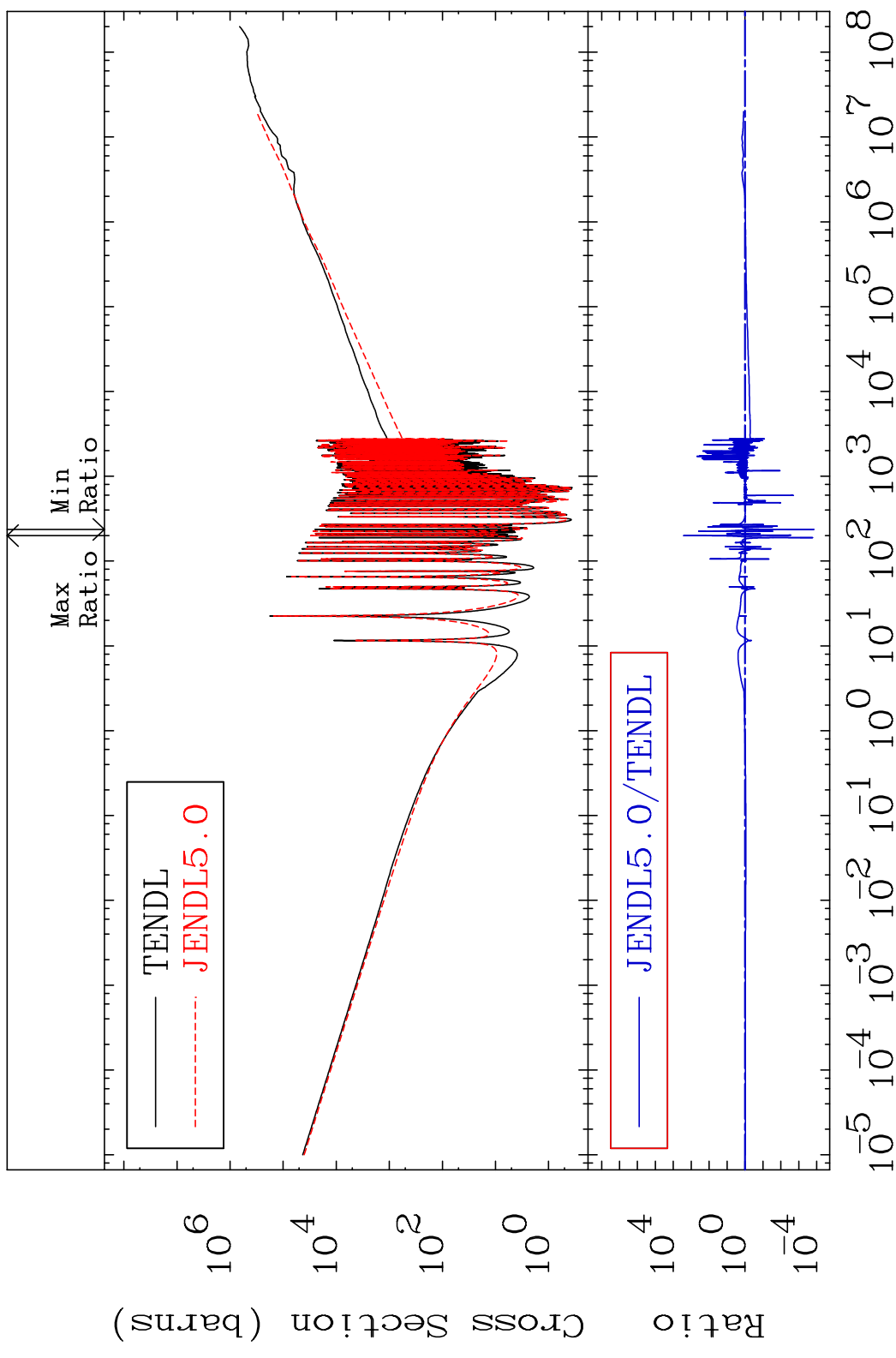


43 Incident Energy (eV) 64-Gd-154

MAT 6431 Total kinematic kerma (high limit) 64-Gd-154  
 Cross Section -99.93 To 9999. %



MAT 6431 Dpa total (eV-barns) 64-Gd-154  
 Cross Section -99.99 To 9999. %



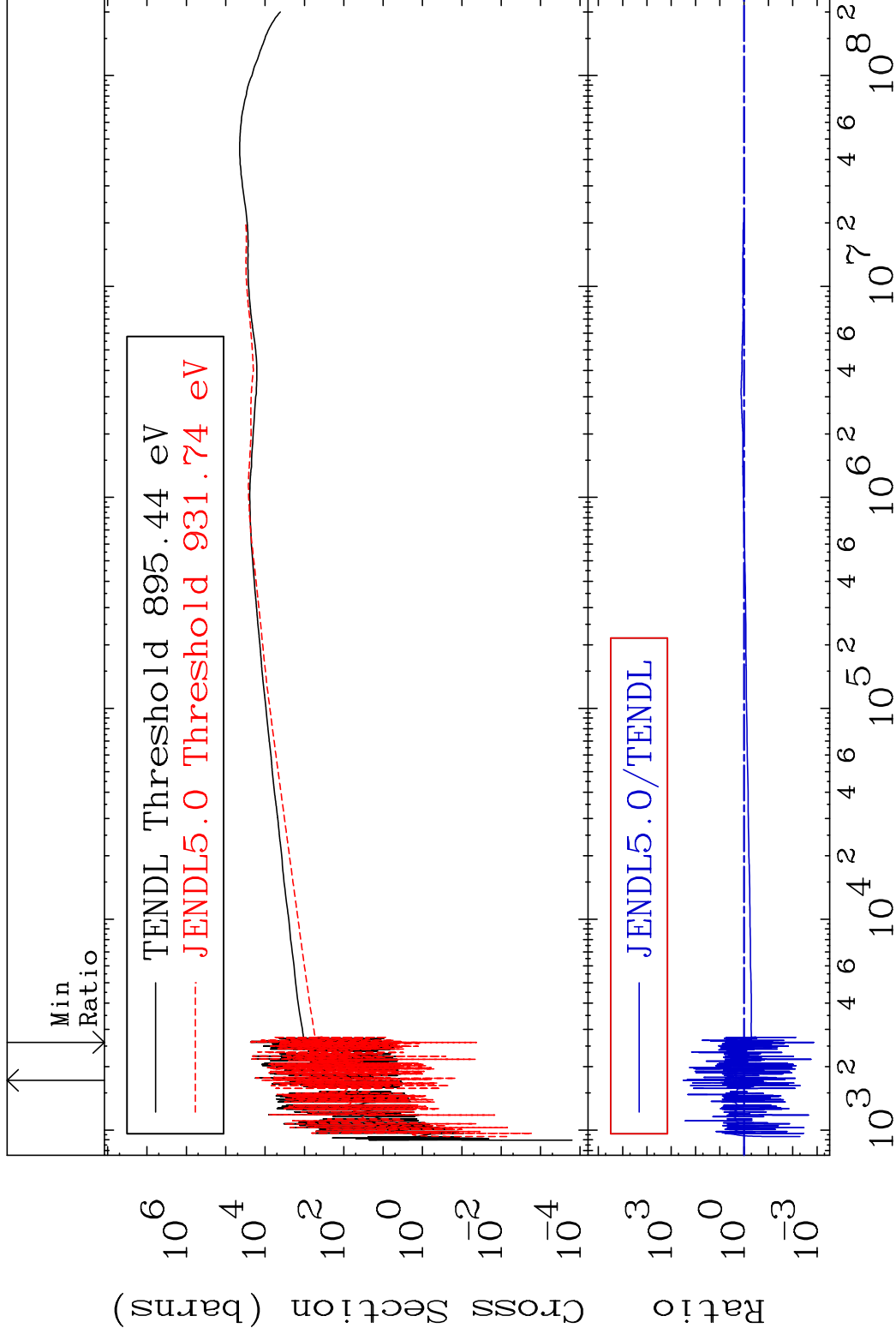
45 Incident Energy (eV) 64-Gd-154

MAT 6431

Dpa elastic (mt2)

64-Gd-154

Cross Section -99.87 To 9999. %

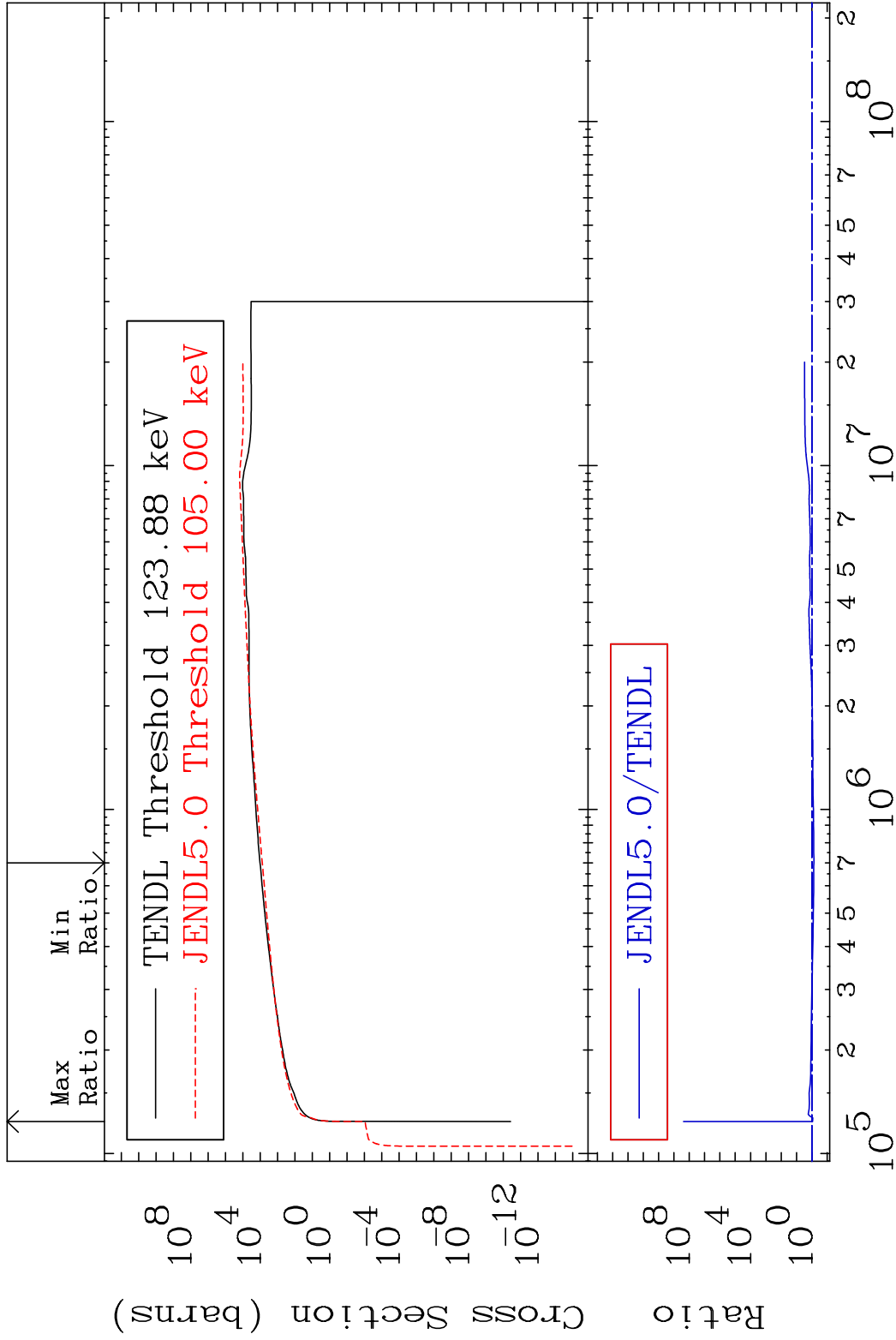


46

Incident Energy (eV)

64-Gd-154

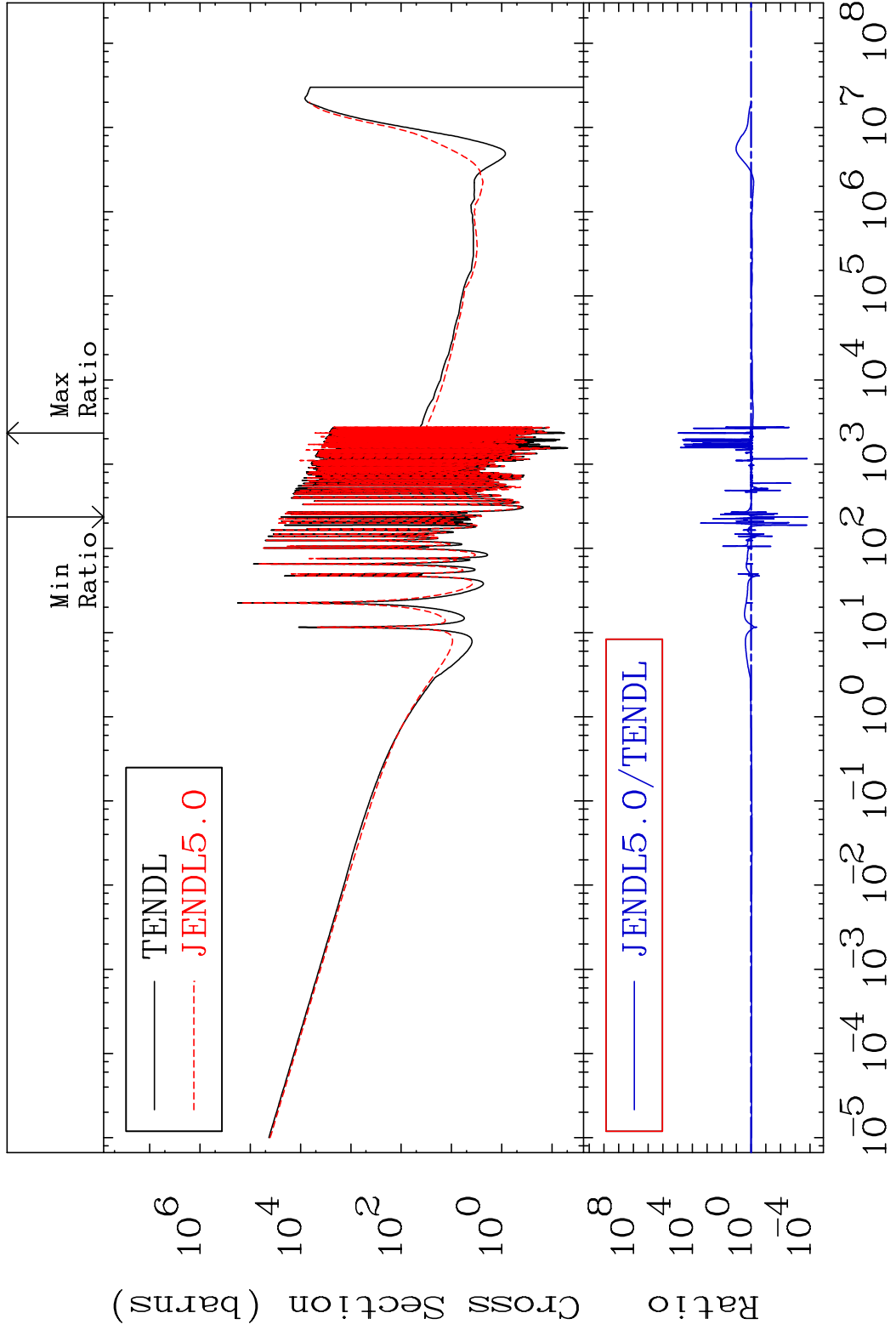
MAT 6431      Dpa inelastic (mt51-91)      64-Gd-154  
 Cross Section    -26.88 To 9999. %



47      Incident Energy (eV)      64-Gd-154

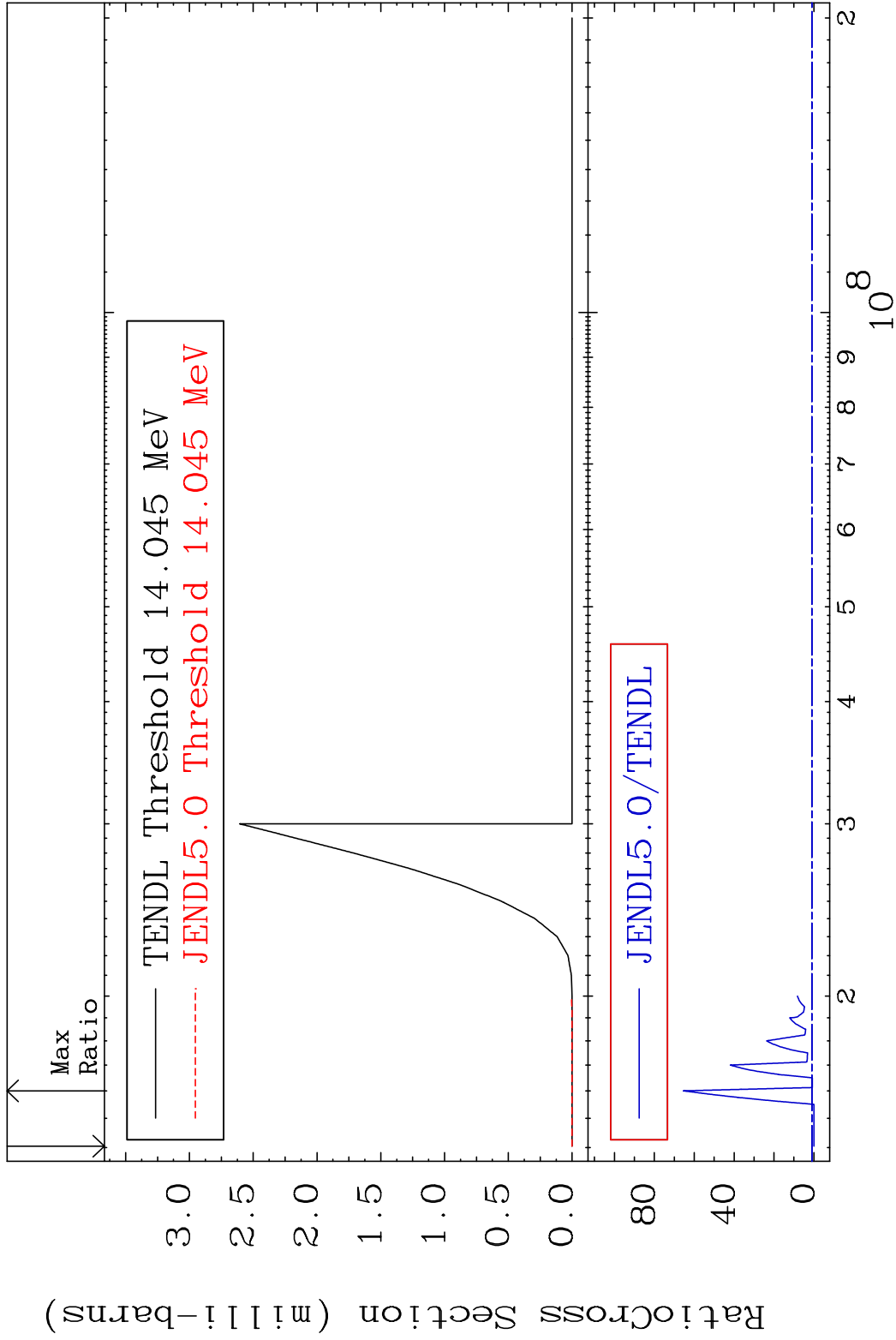


MAT 6431 Dpa disappearance (mt102 -120) 64-Gd-154  
 Cross Section -99.99 To 9999. %

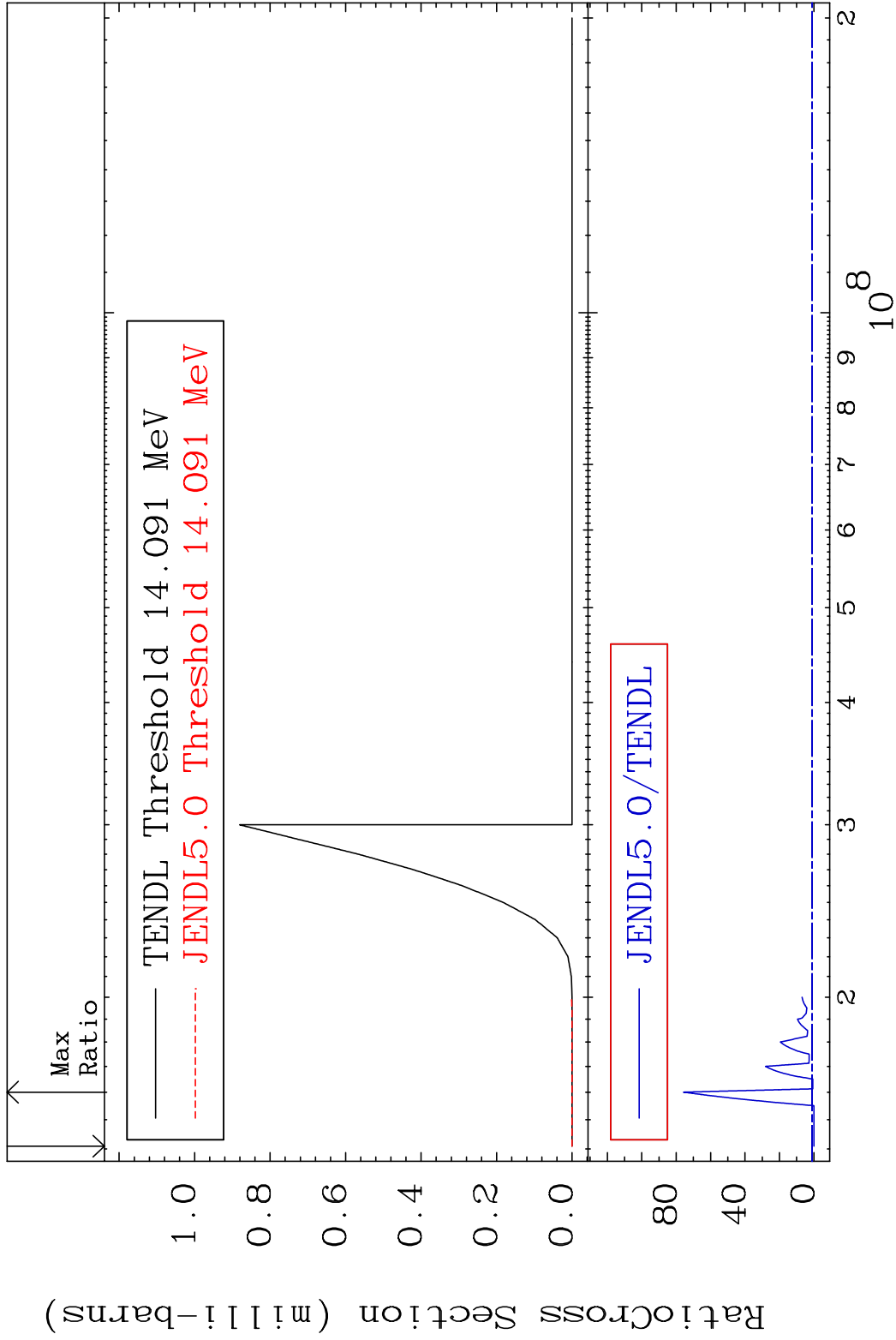


48 Incident Energy (eV) 64-Gd-154

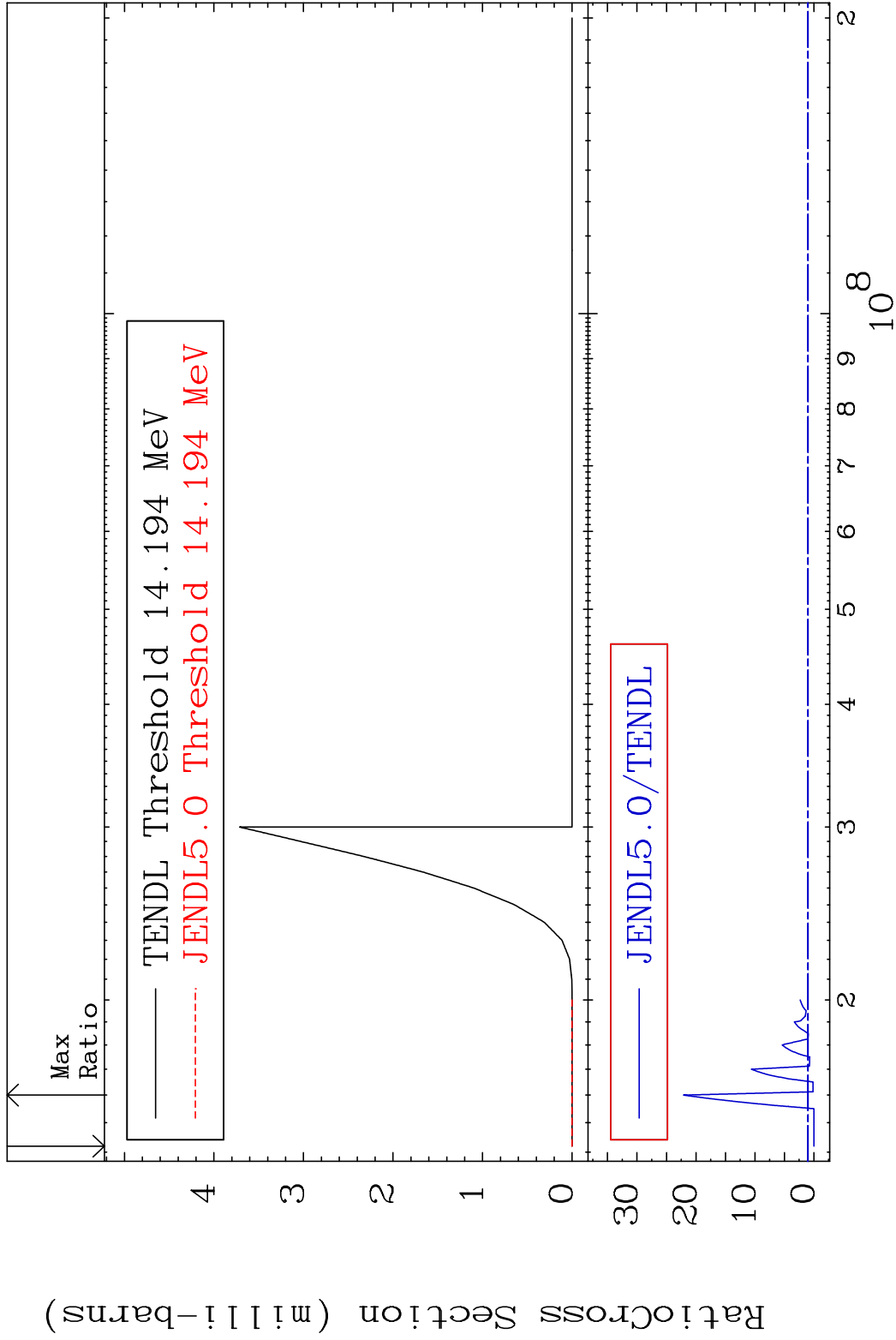
MAT 6431 (n, n') d:63-Eu-152g 64-Gd-154  
 Radionuclide Production Cross Section 180000 to 6439. %



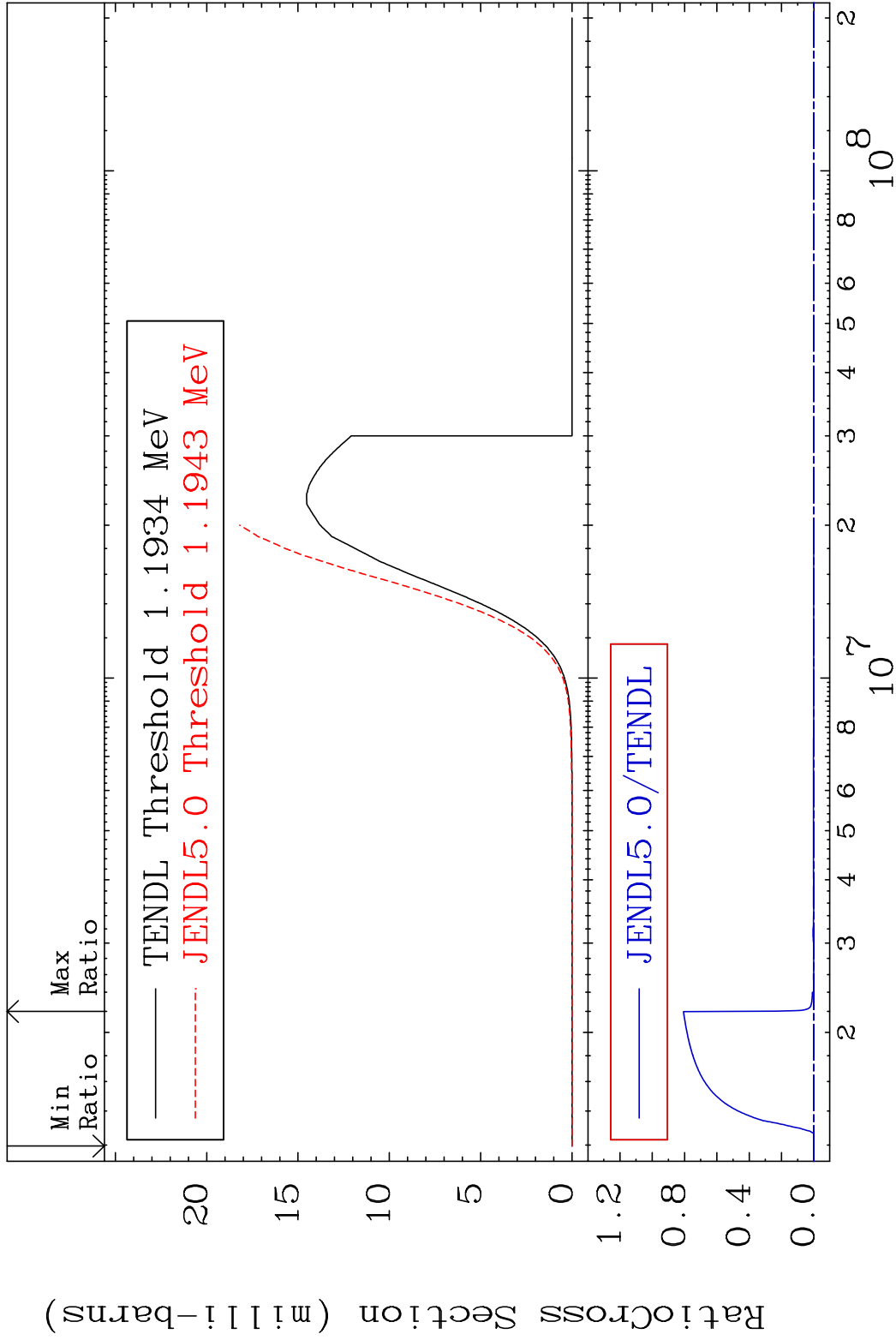
MAT 6431 (n, n') d:63-Eu-152m1 64-Gd-154  
 Radionuclide Production Cross Section 180000 dfo 7478. %



50 64-Gd-154



MAT 6431 (n,p):63-Eu-154g 64-Gd-154  
 Radionuclide Production Cross Section 180000 dpo 9999. %



MAT 6431 (n,t):63-Eu-152g 64-Gd-154  
 Radionuclide Production Cross Section 180000 dtd 9999. %

