

Program Complot  
(Version 2021-1)

by

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Press Mouse Button to Start

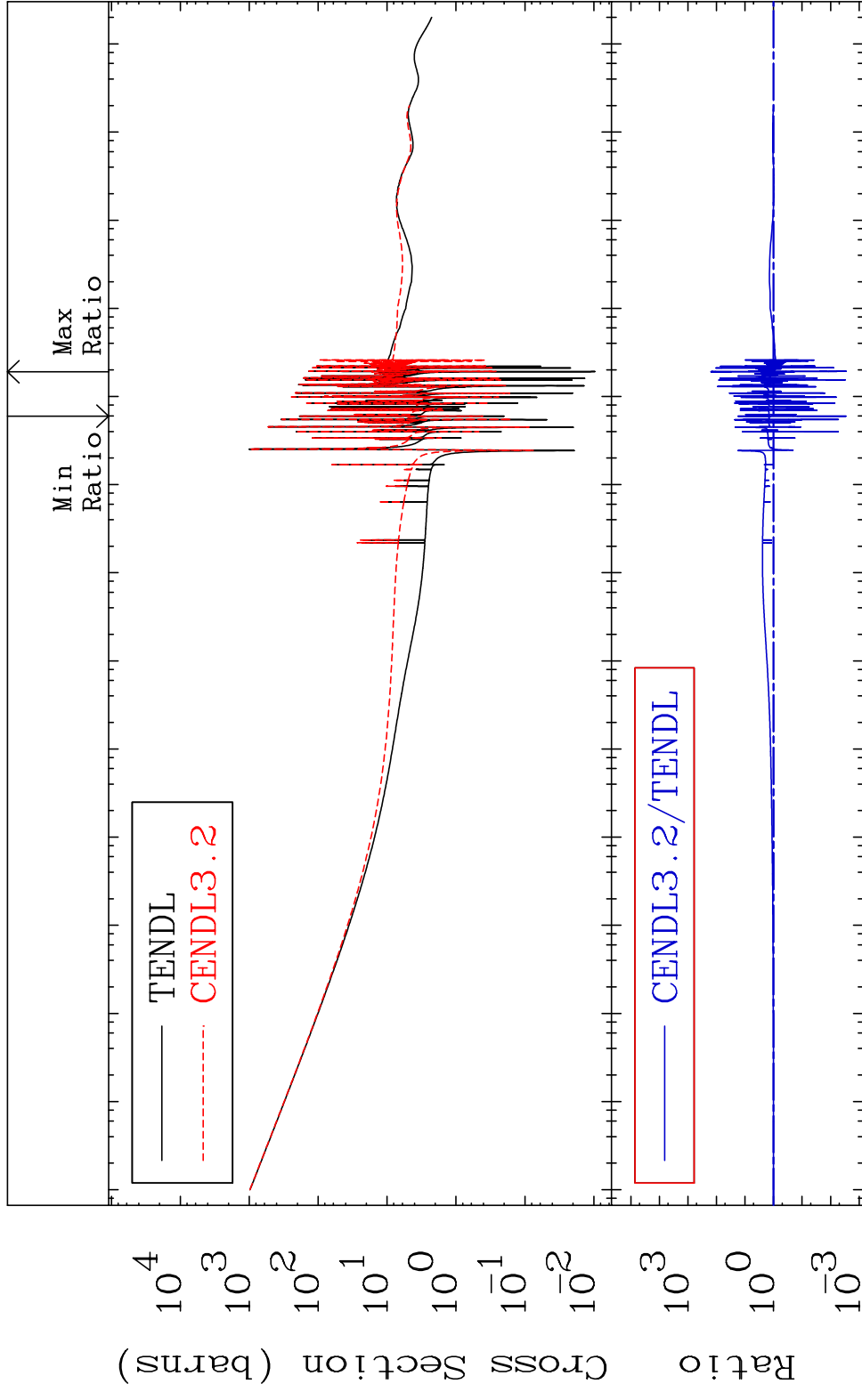
MAT 6025

Total

60-Nd-142

Cross Section

-99.72 To 9999. %



1

Incident Energy (eV)

60-Nd-142

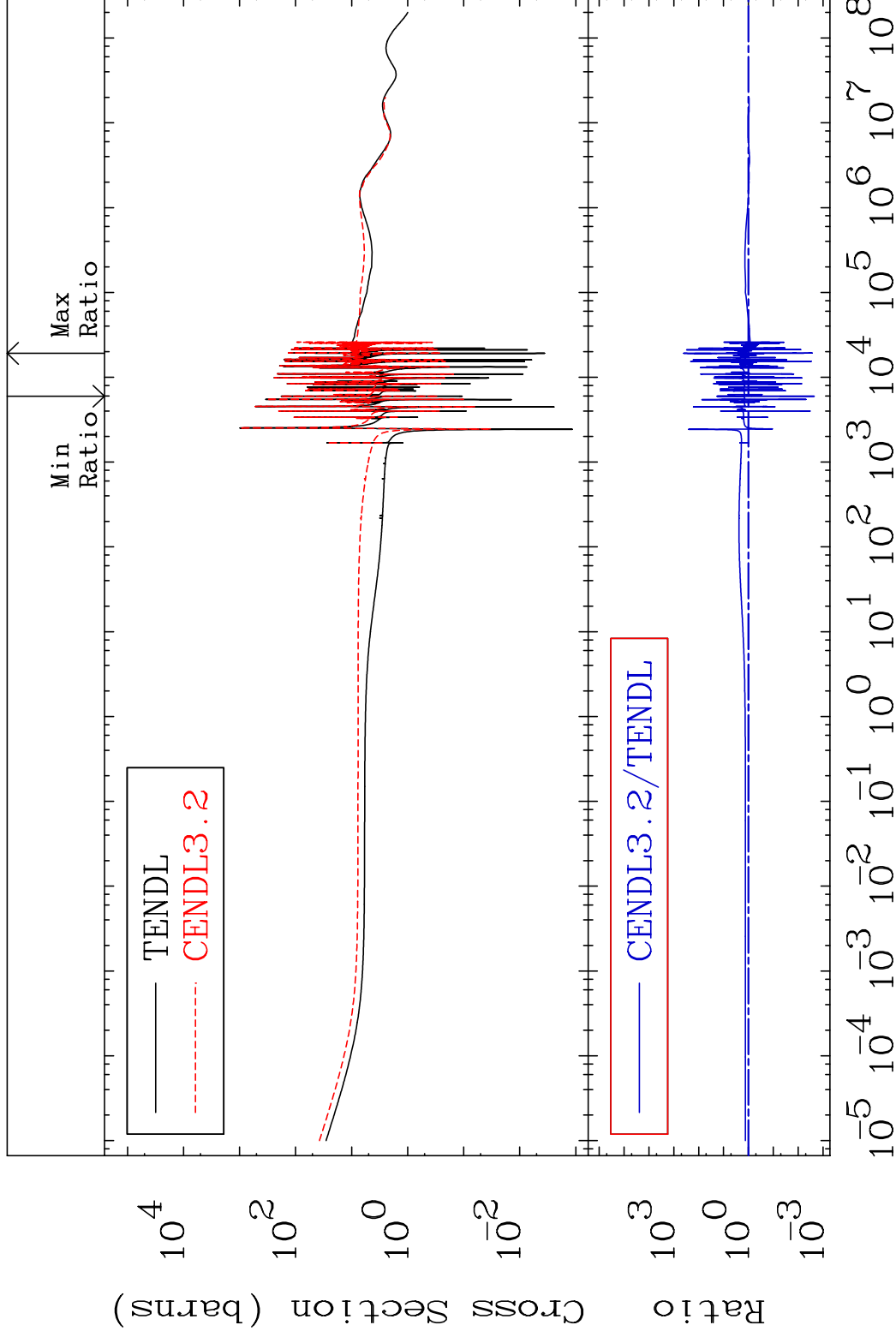
MAT 6025

Elastic

60-Nd-142

Cross Section

-99.777 To 9999. %

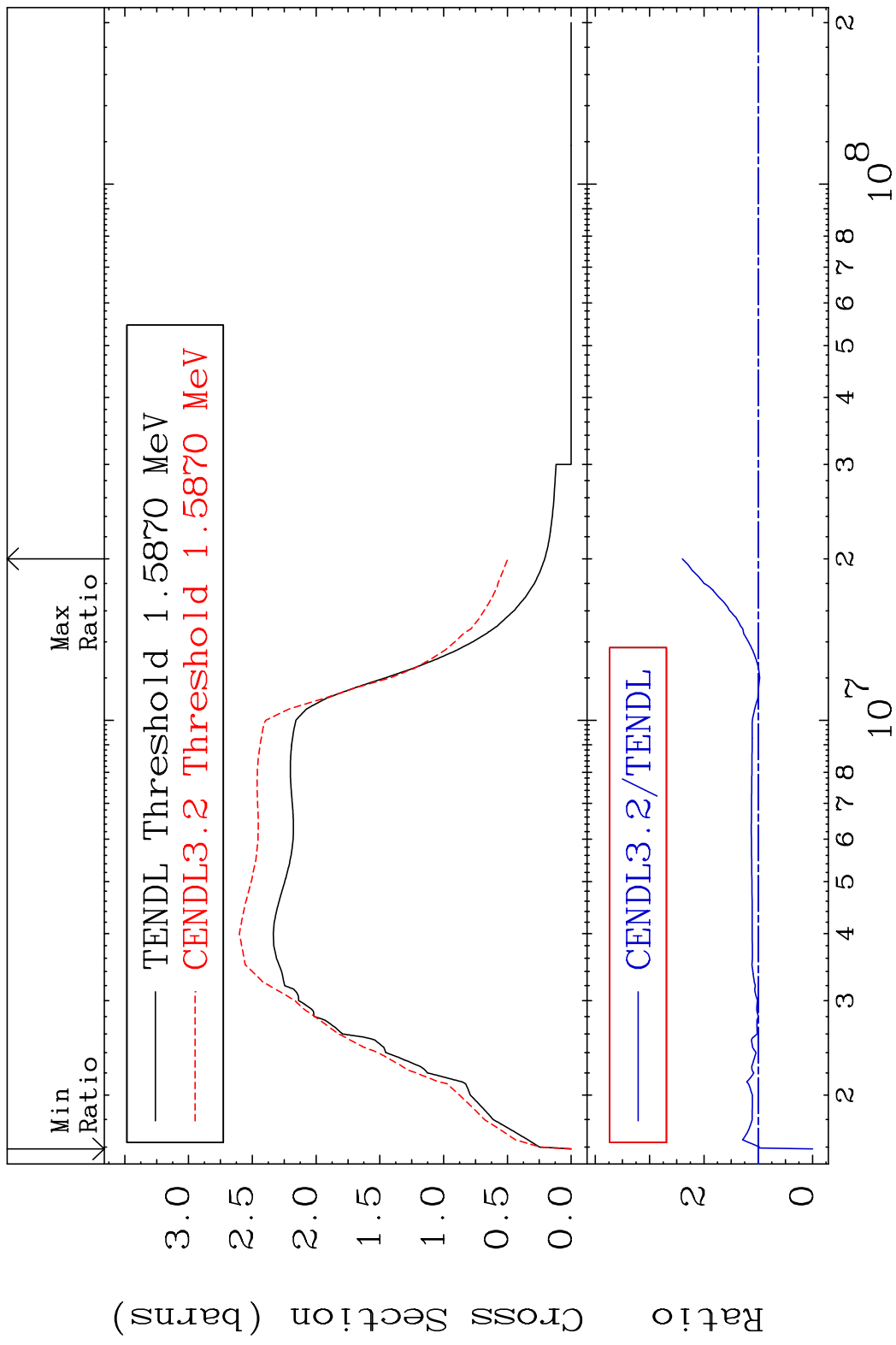


2

Incident Energy (eV)

60-Nd-142

MAT 6025 Inelastic 60-Nd-142  
 Cross Section -100.0 To 139.8 %



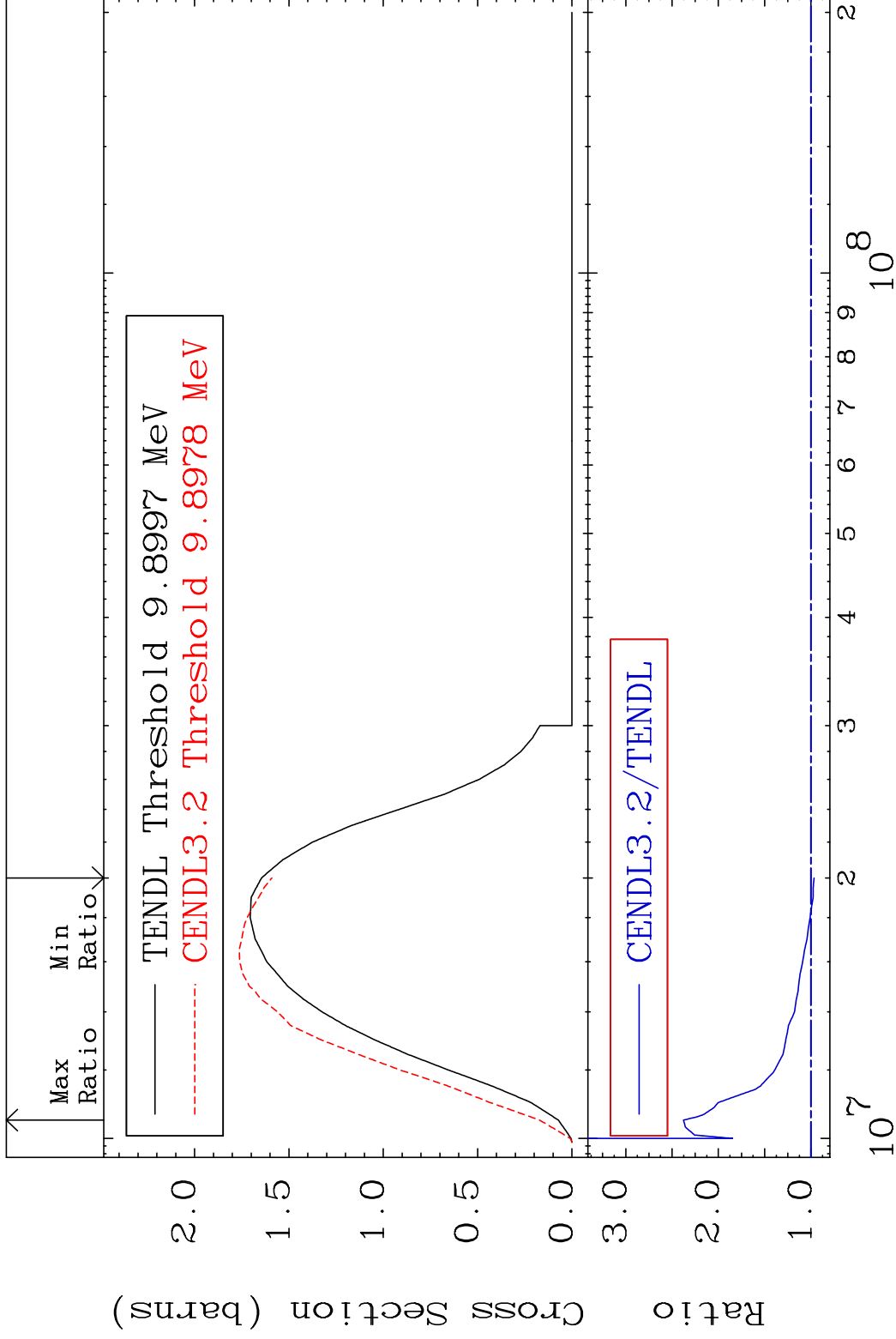
3 Incident Energy (eV) 60-Nd-142

MAT 6025

(n,2n)

60-Nd-142

Cross Section -3.324 To 137.7 %



60-Nd-142

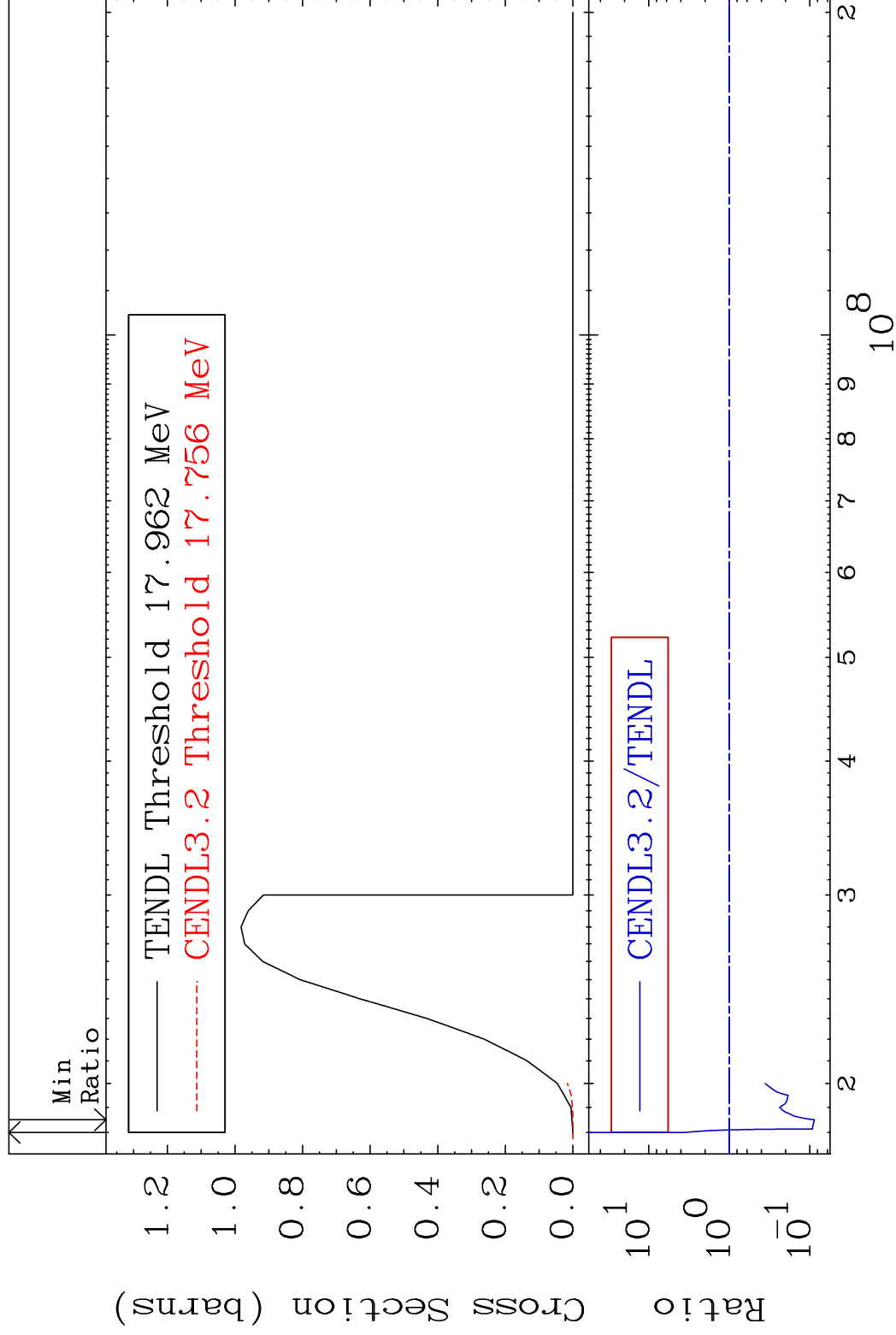
Incident Energy (eV)

MAT 6025

(n,3n)

60-Nd-142

Cross Section -91.20 To 264.6 %

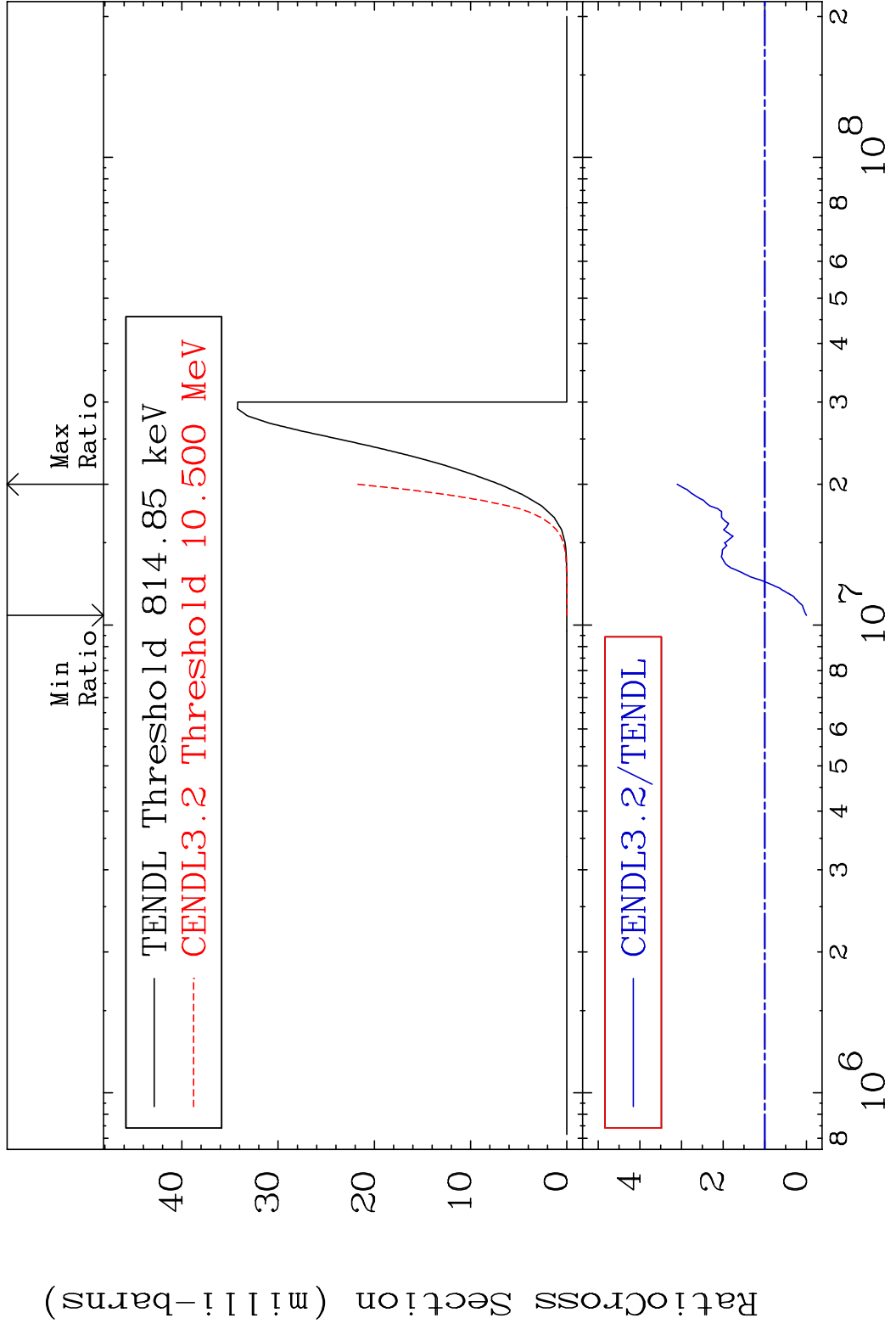


5

Incident Energy (eV)

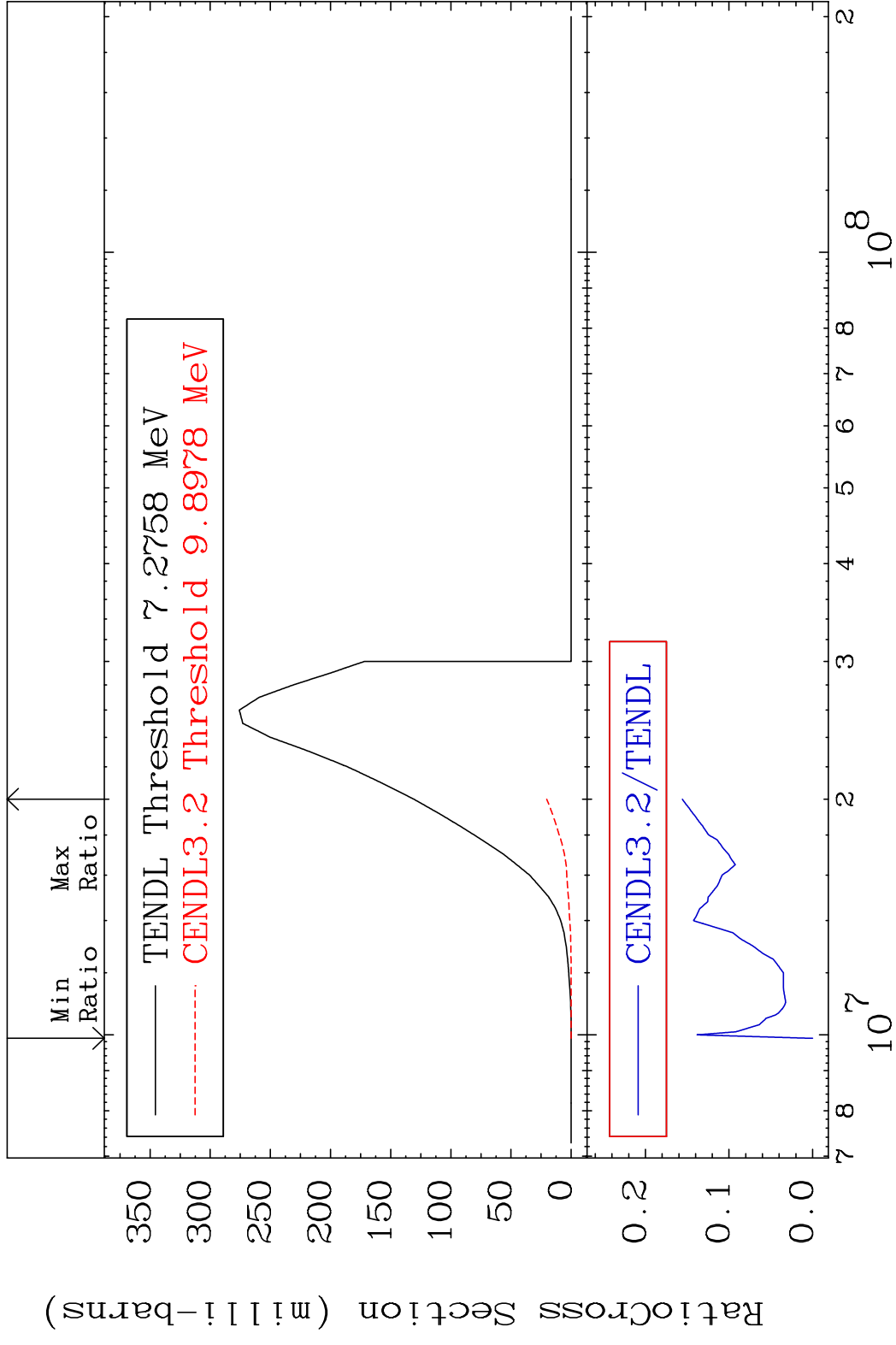
60-Nd-142

MAT 6025 (n, n')  $\alpha$  60-Nd-142  
 Cross Section -100.0 To 210.5 %



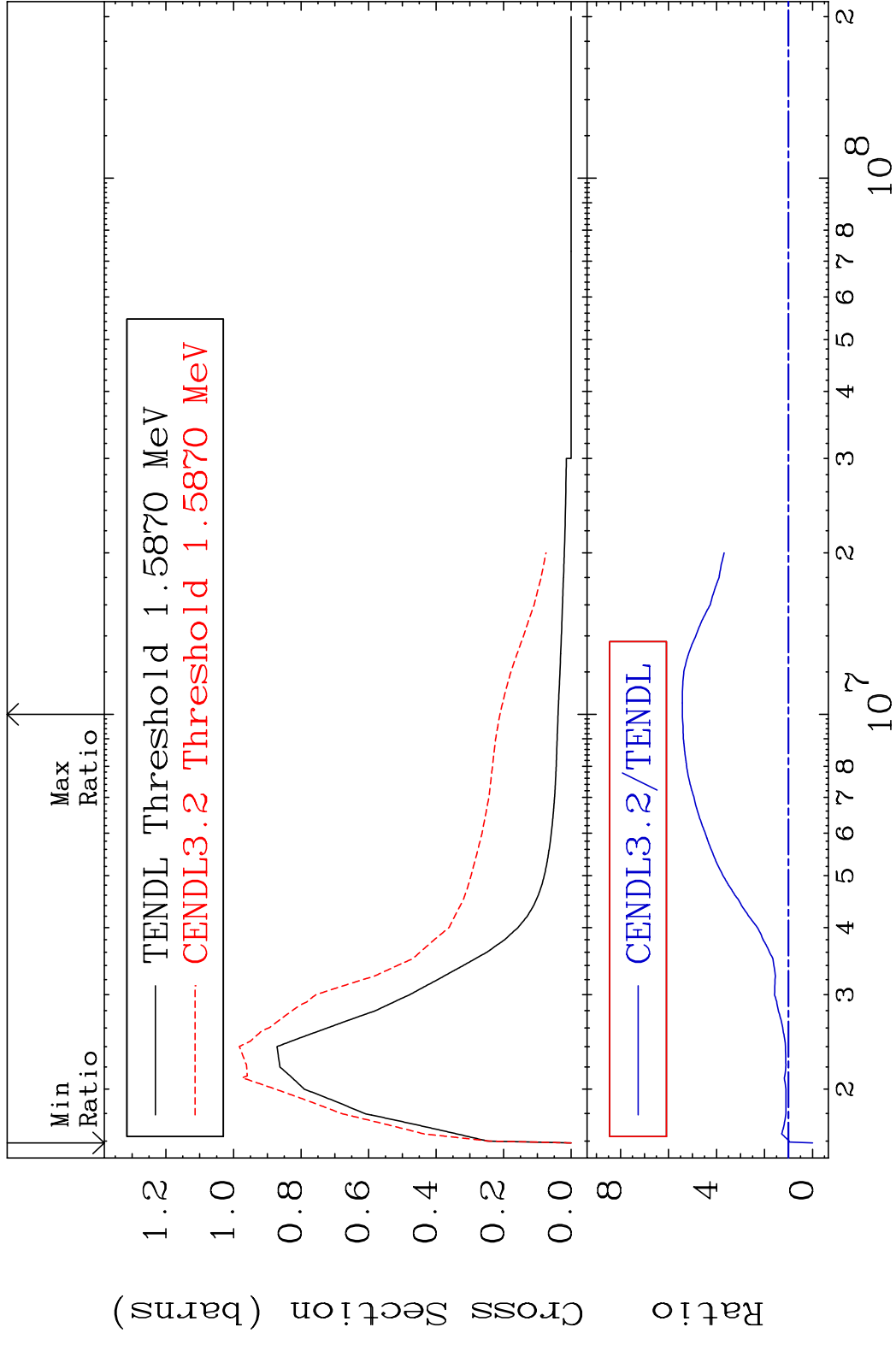
6 8 2 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 60-Nd-142

MAT 6025 (n, n') p 60-Nd-142  
 Cross Section -100.0 To -84.42%

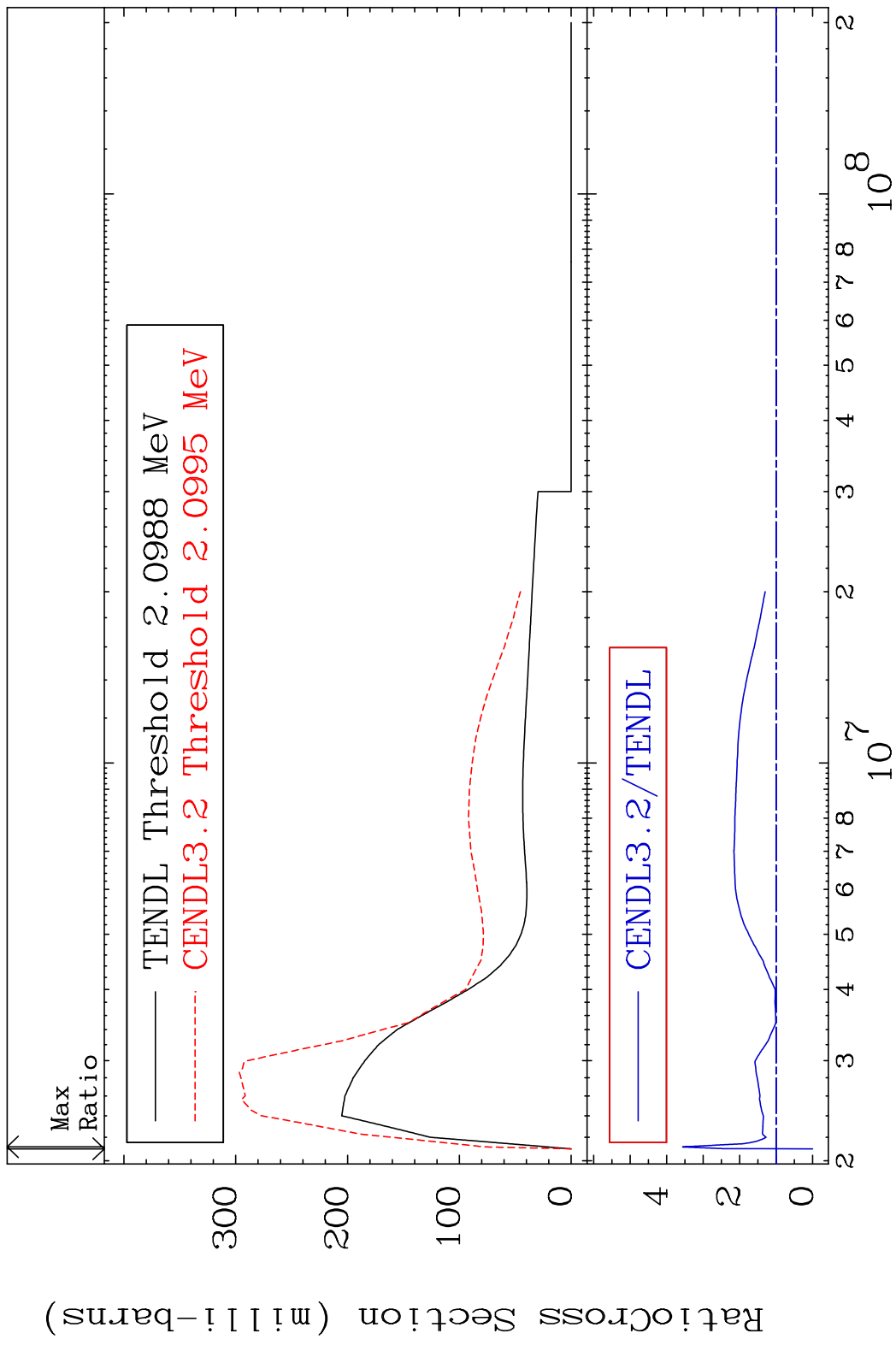


7 8 7 8 10 2 3 4 5 6 7 8 10 8 2  
 Incident Energy (eV) 60-Nd-142

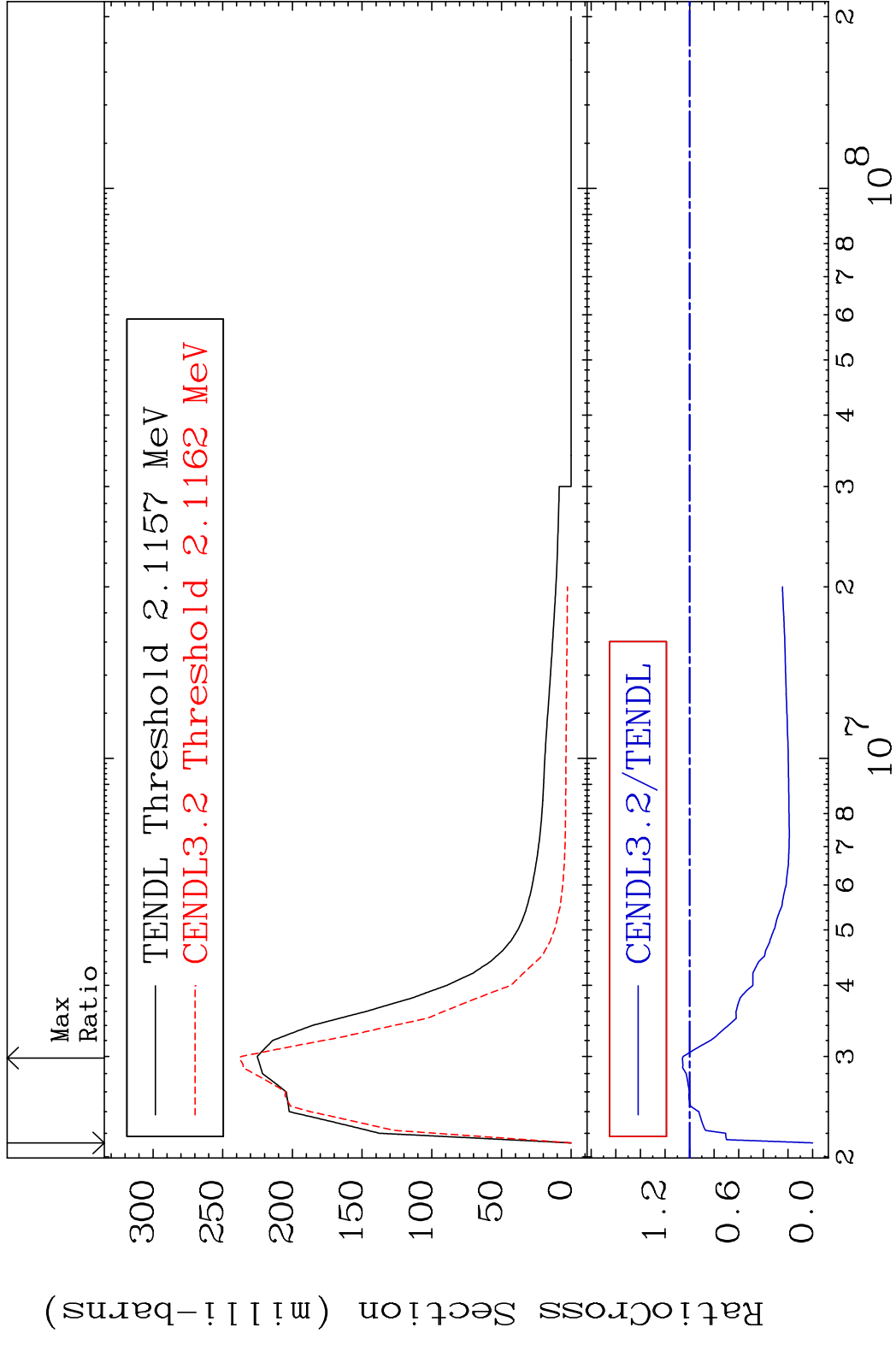
MAT 6025 MT= 51 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 442.3 %



MAT 6025 MT= 52 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 256.8 %

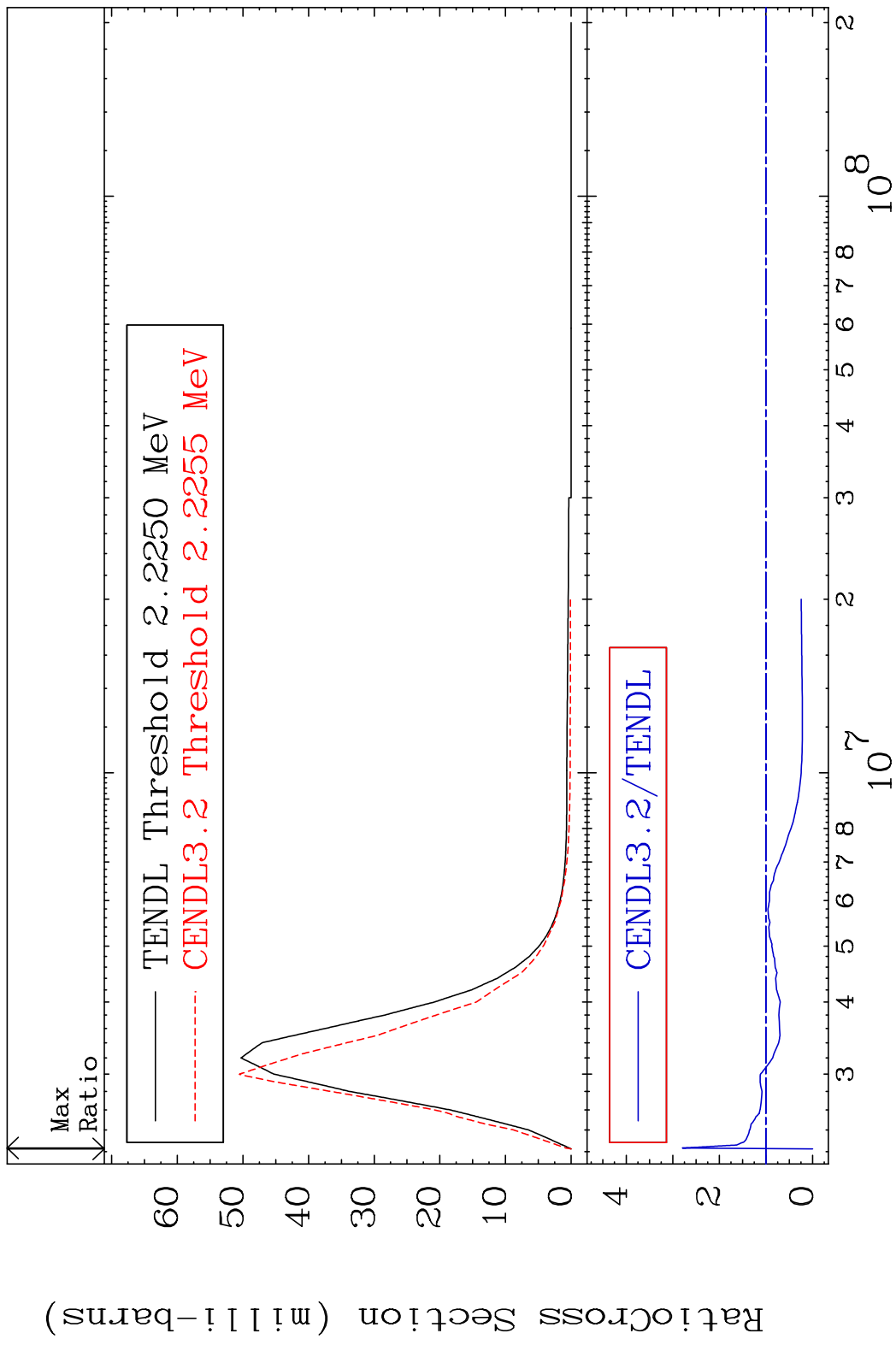


MAT 6025 MT= 53 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 5.870 %

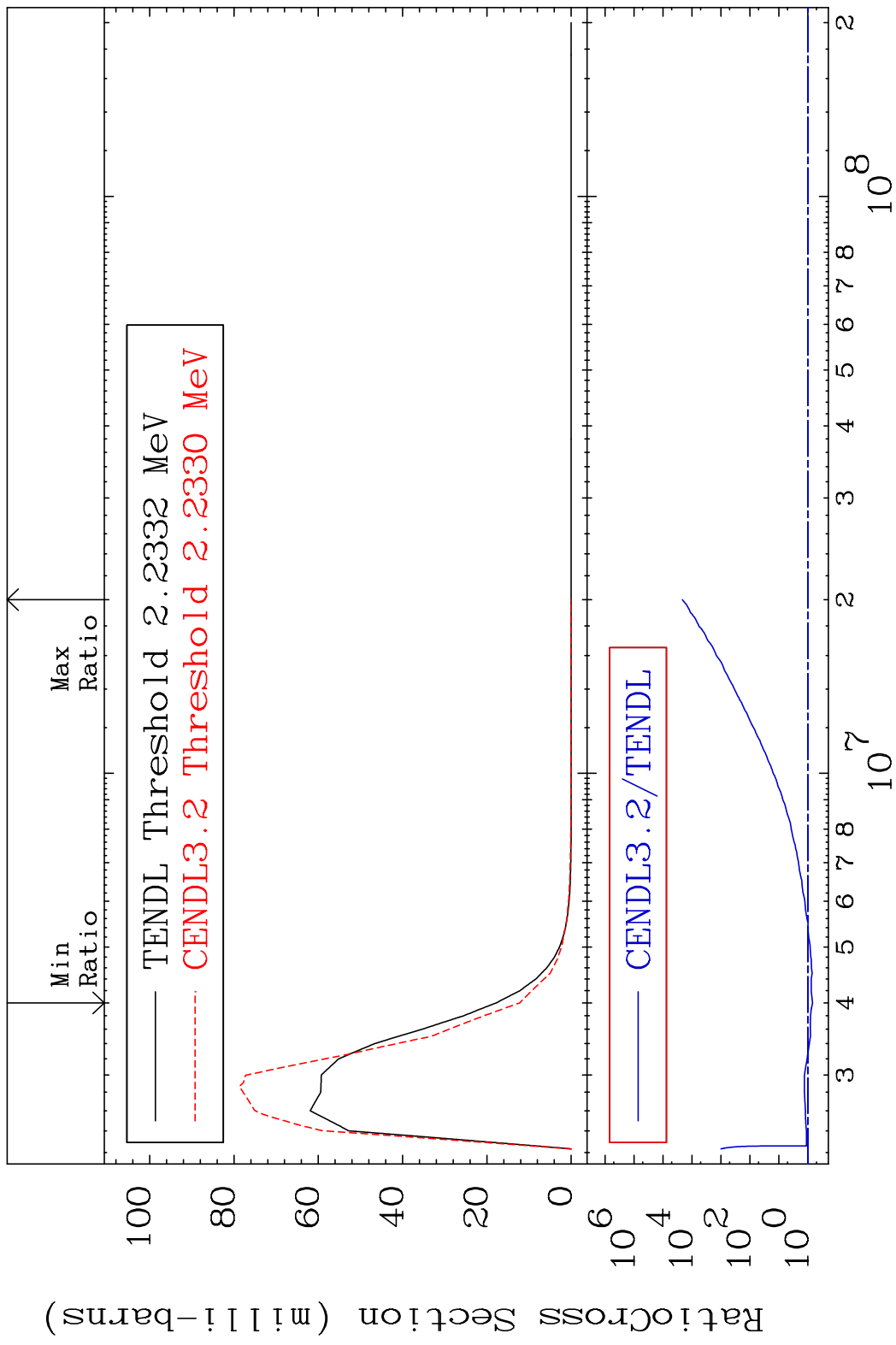


10 Incident Energy (eV) 60-Nd-142

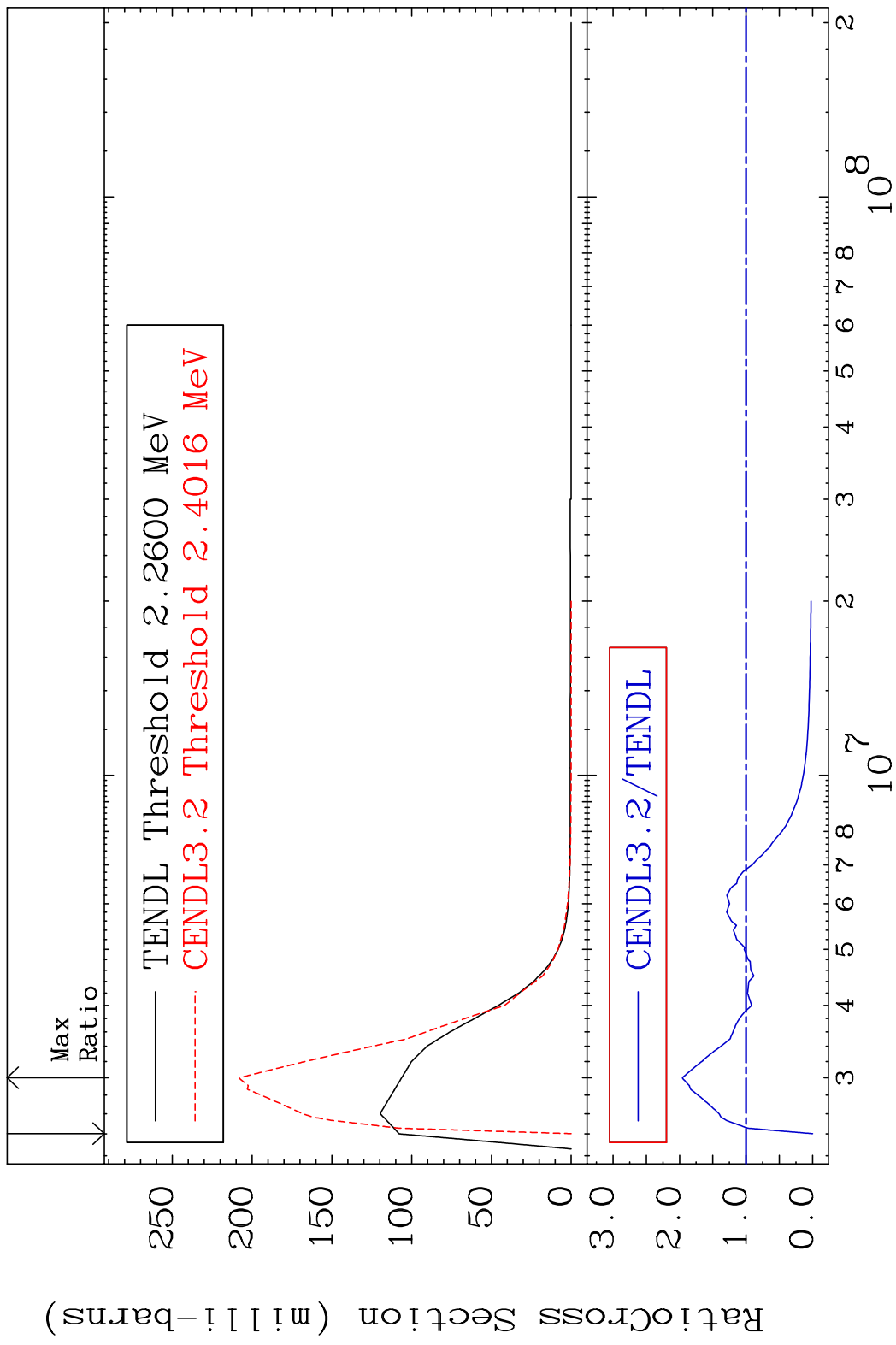
MAT 6025 MT= 54 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 179.4 %



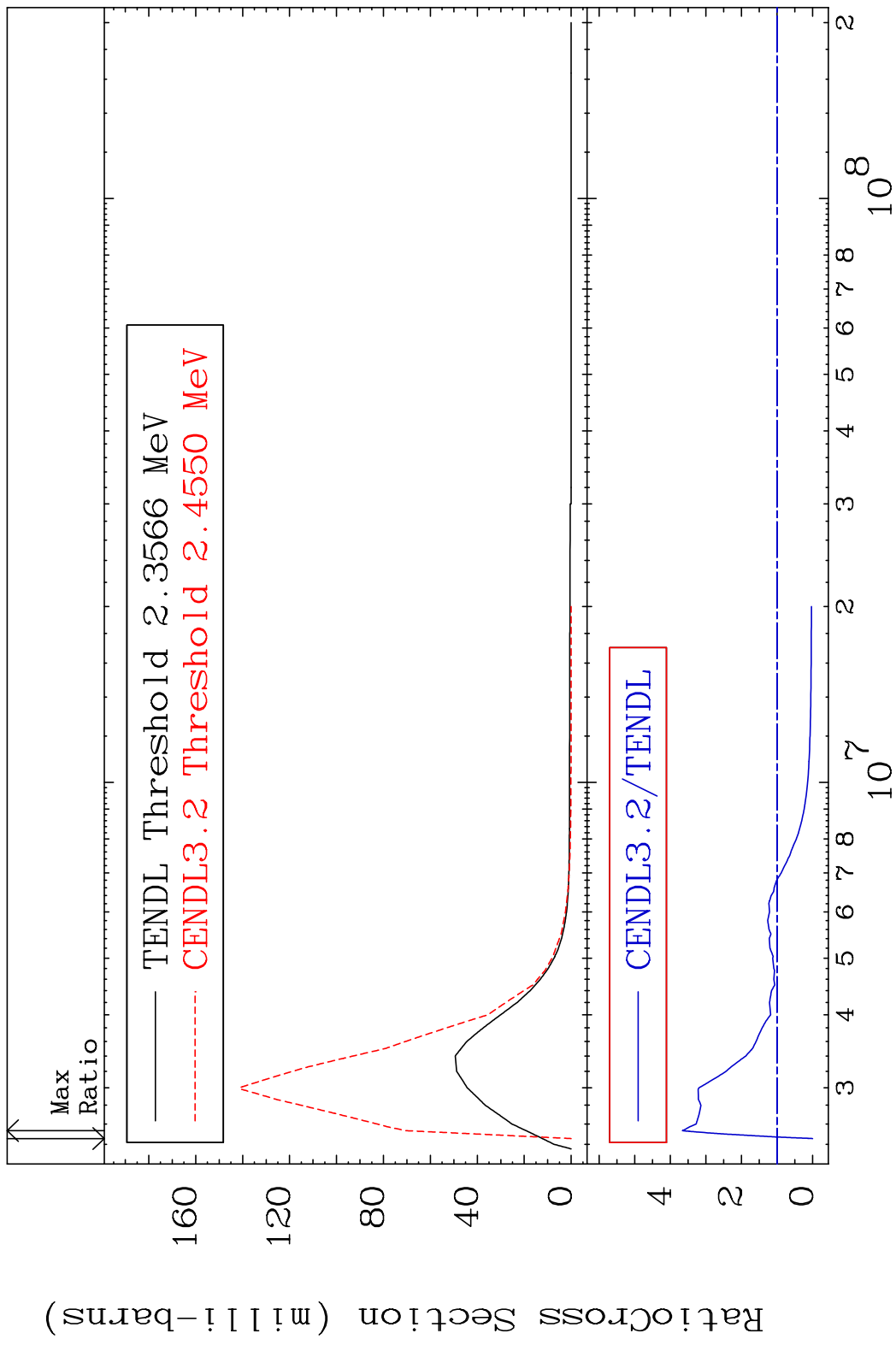
MAT 6025 MT= 55 (n, n') Level 60-Nd-142  
 Cross Section -31.27 To 9999. %



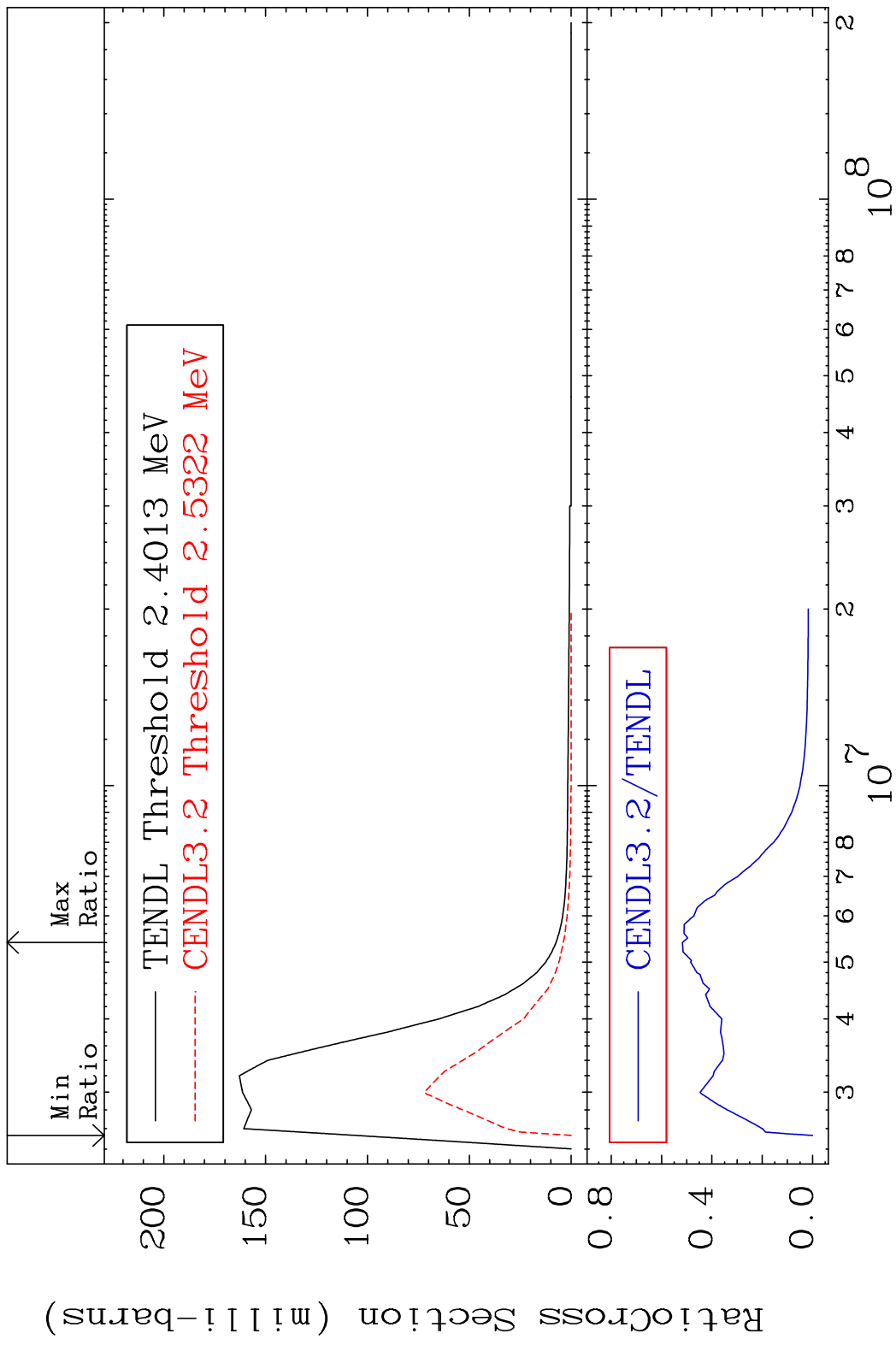
MAT 6025 MT= 56 (n,n') Level 60-Nd-142  
 Cross Section -100.0 To 95.78 %



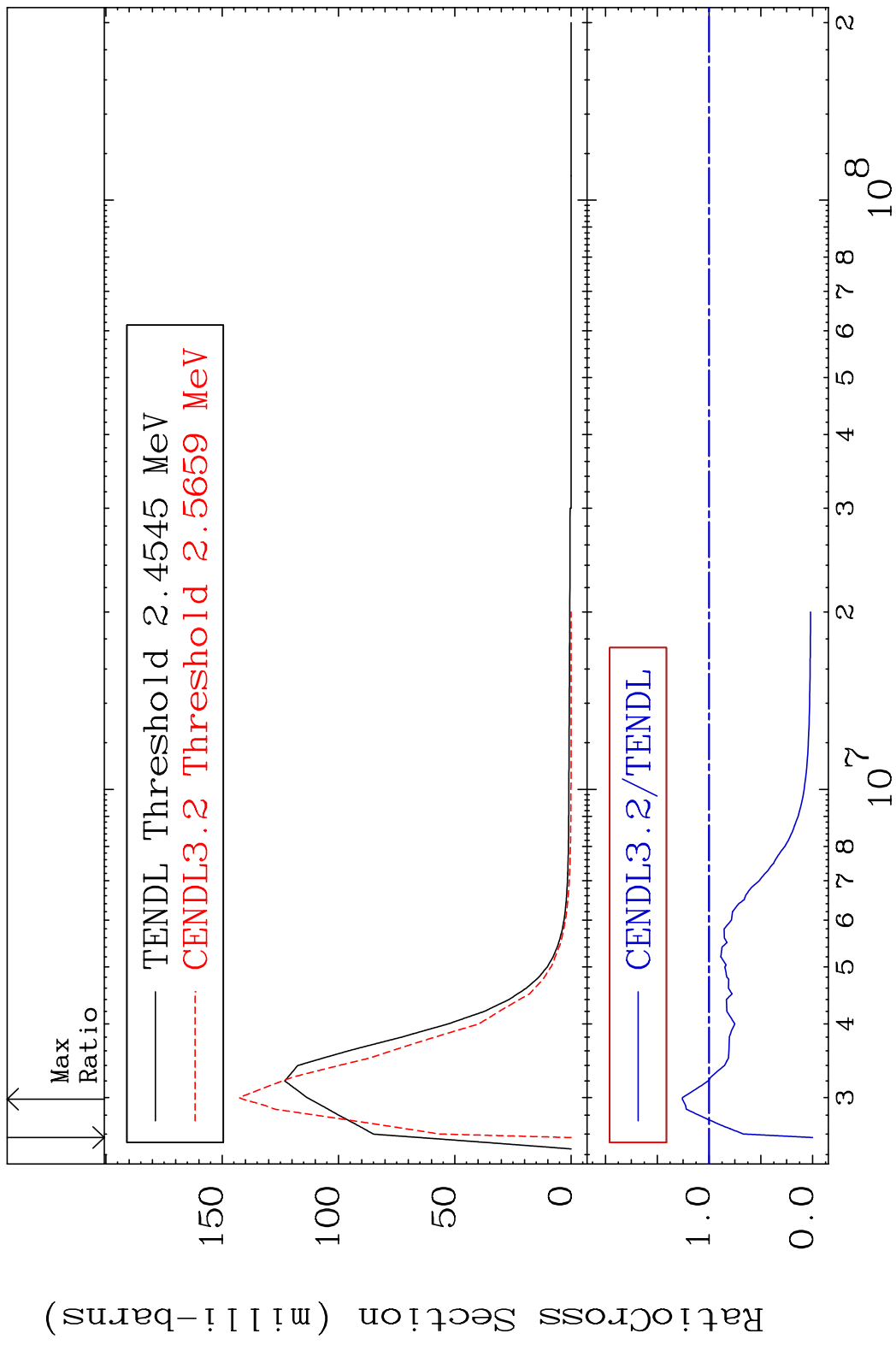
MAT 6025 MT= 57 (n,n') Level 60-Nd-142  
 Cross Section -100.0 To 266.2 %



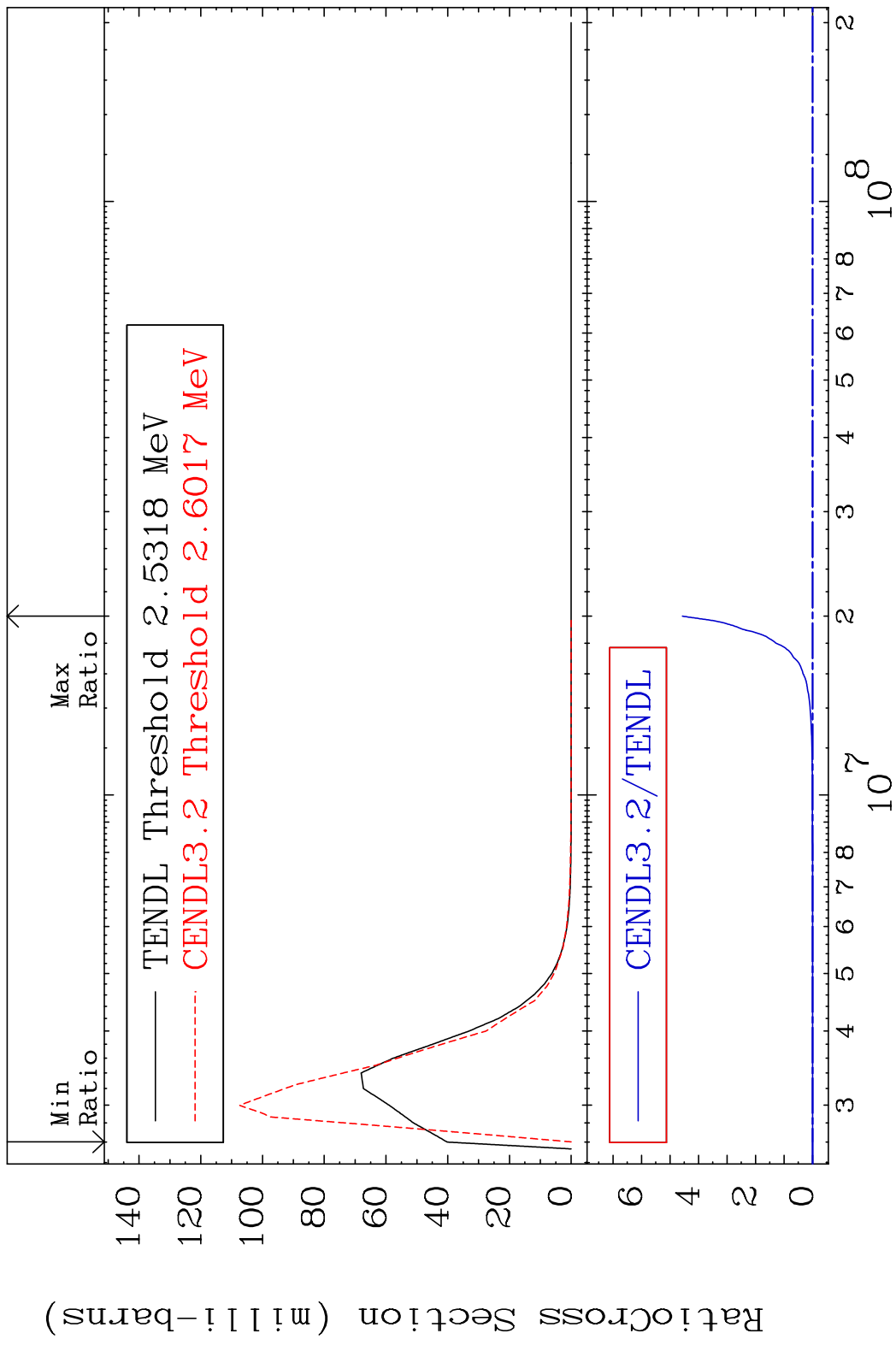
MAT 6025 MT= 58 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To -48.26%



MAT 6025 MT= 59 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 25.75 %

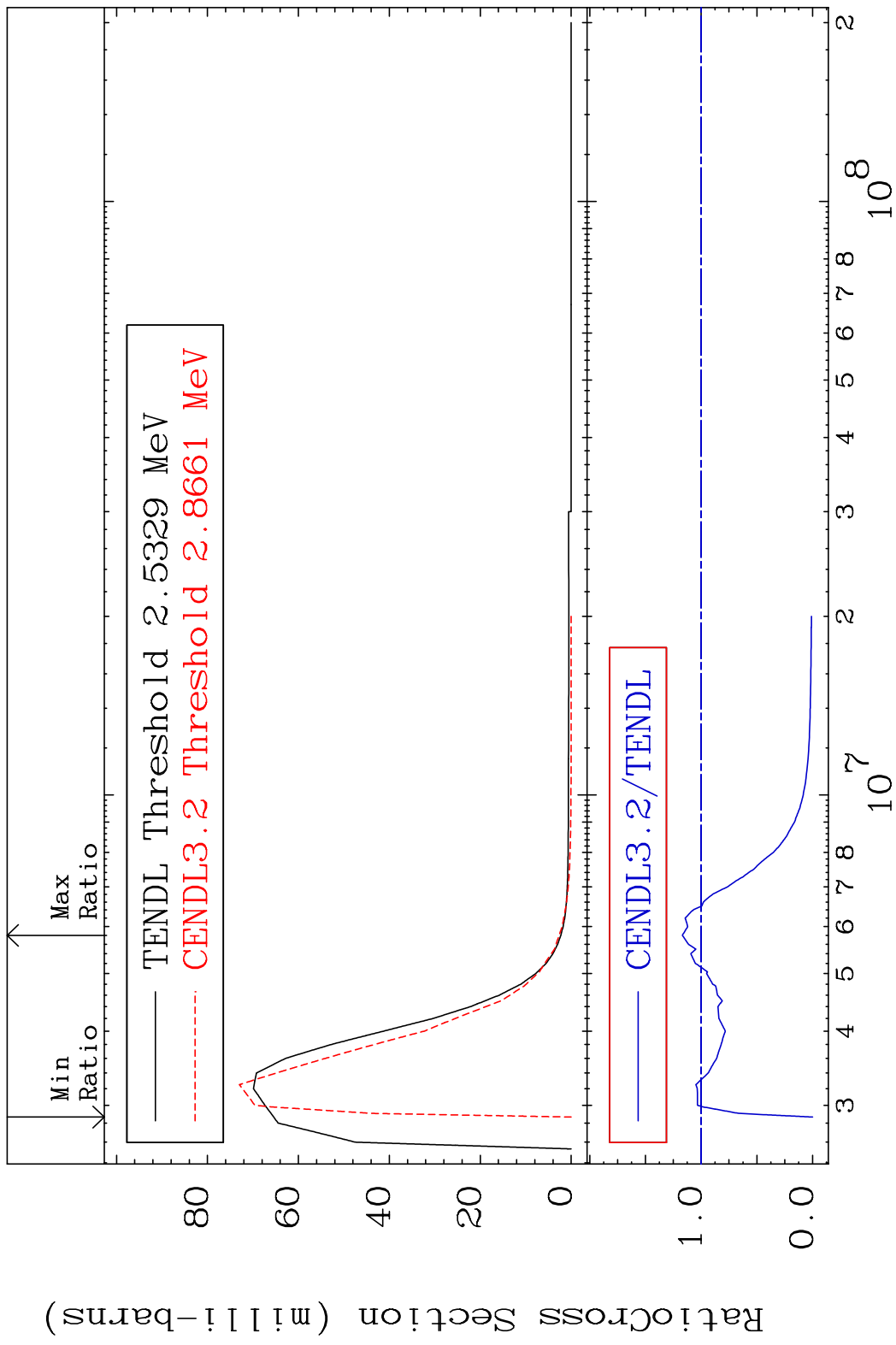


MAT 6025 MT= 60 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 9999. %

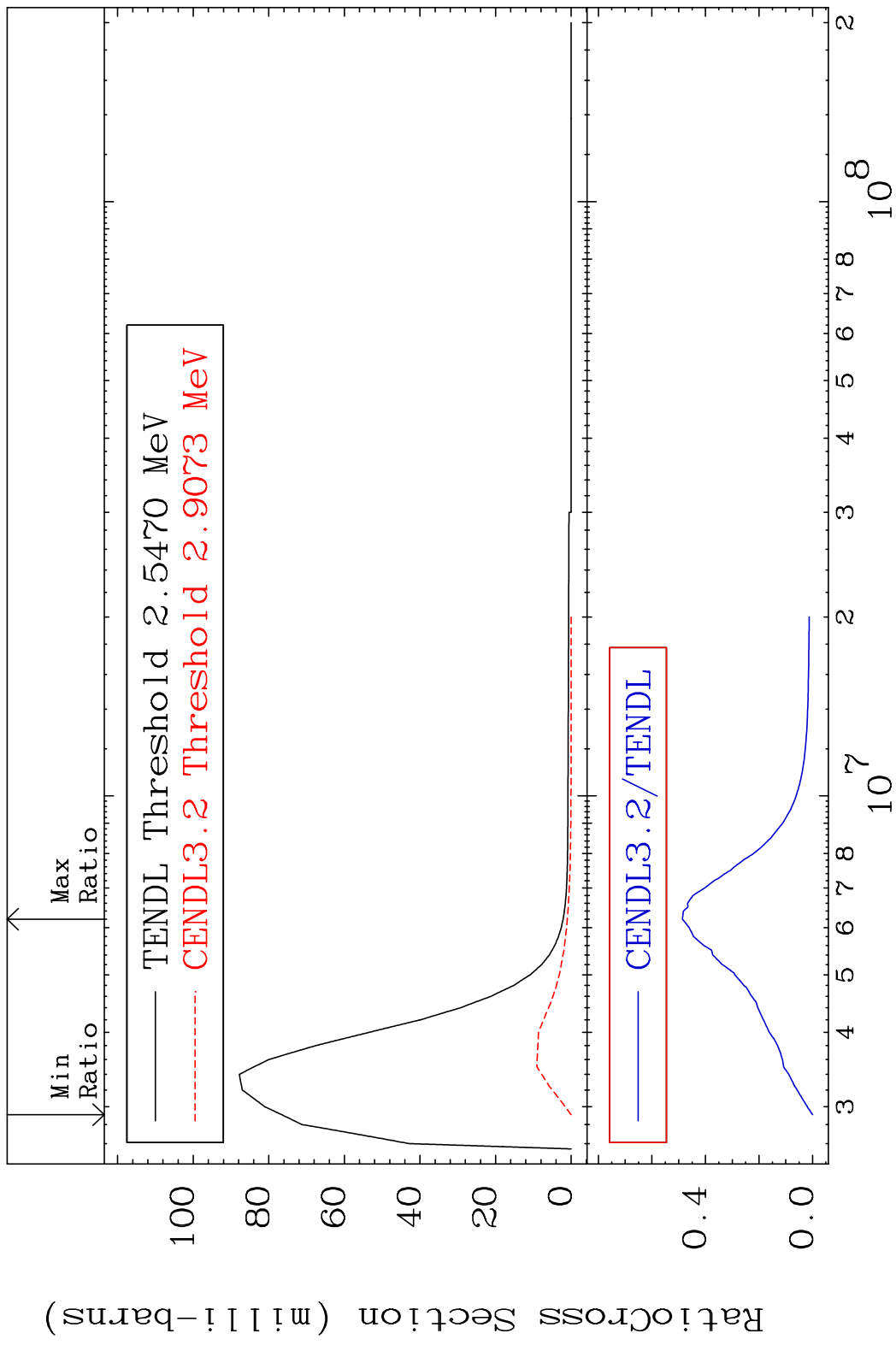


17 60-Nd-142

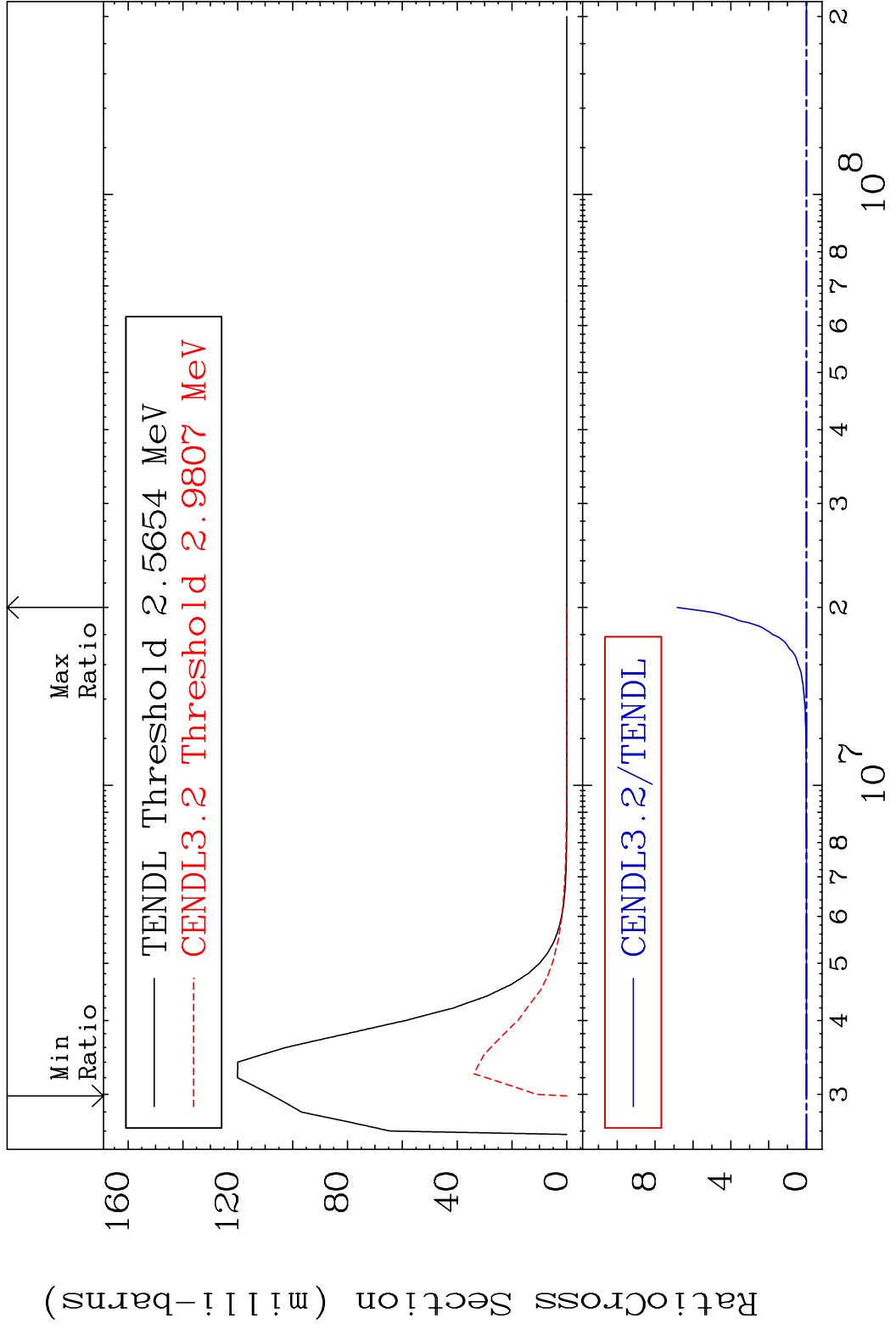
MAT 6025 MT= 61 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 16.89 %



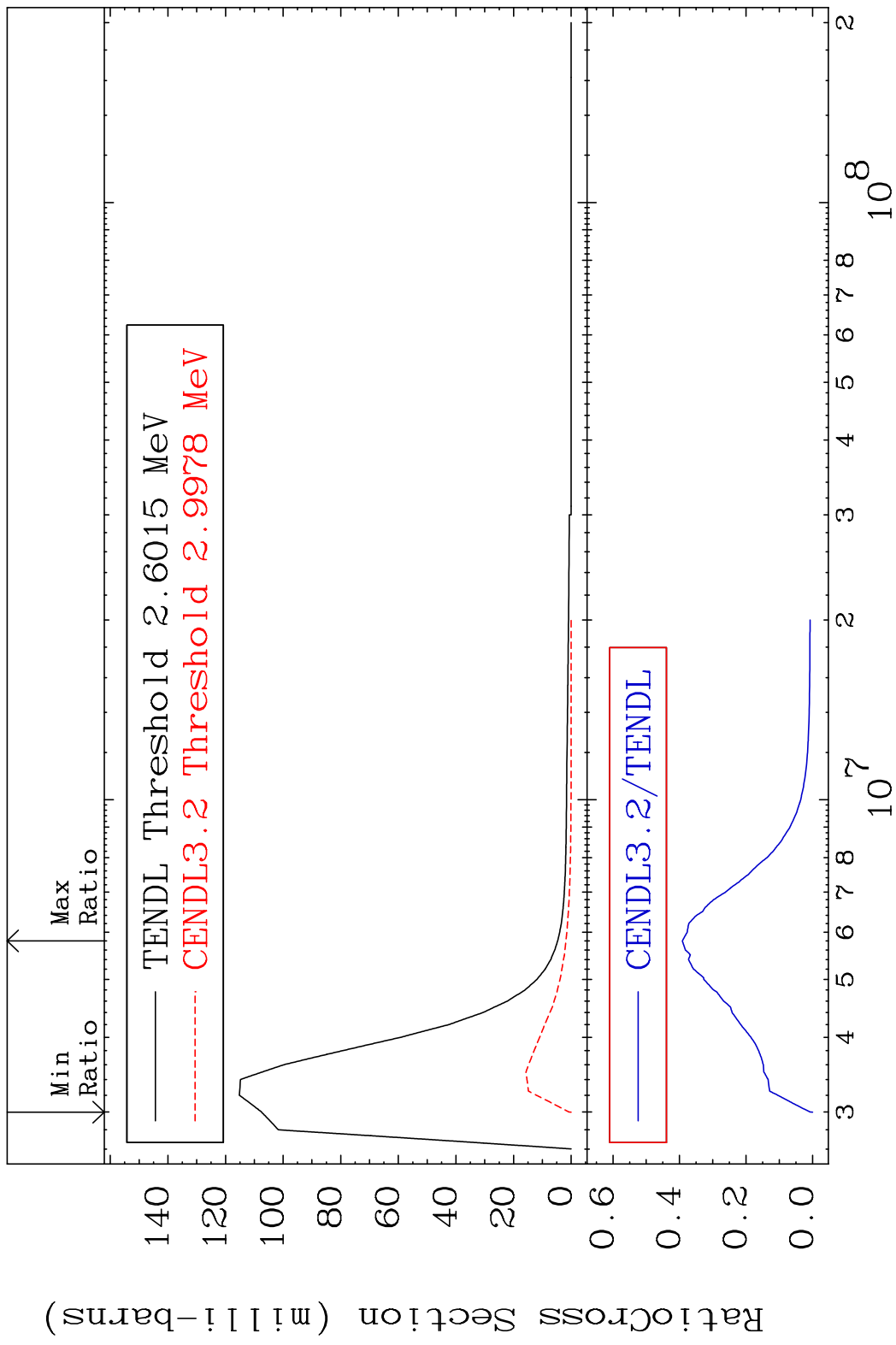
MAT 6025 MT= 62 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To -51.36%



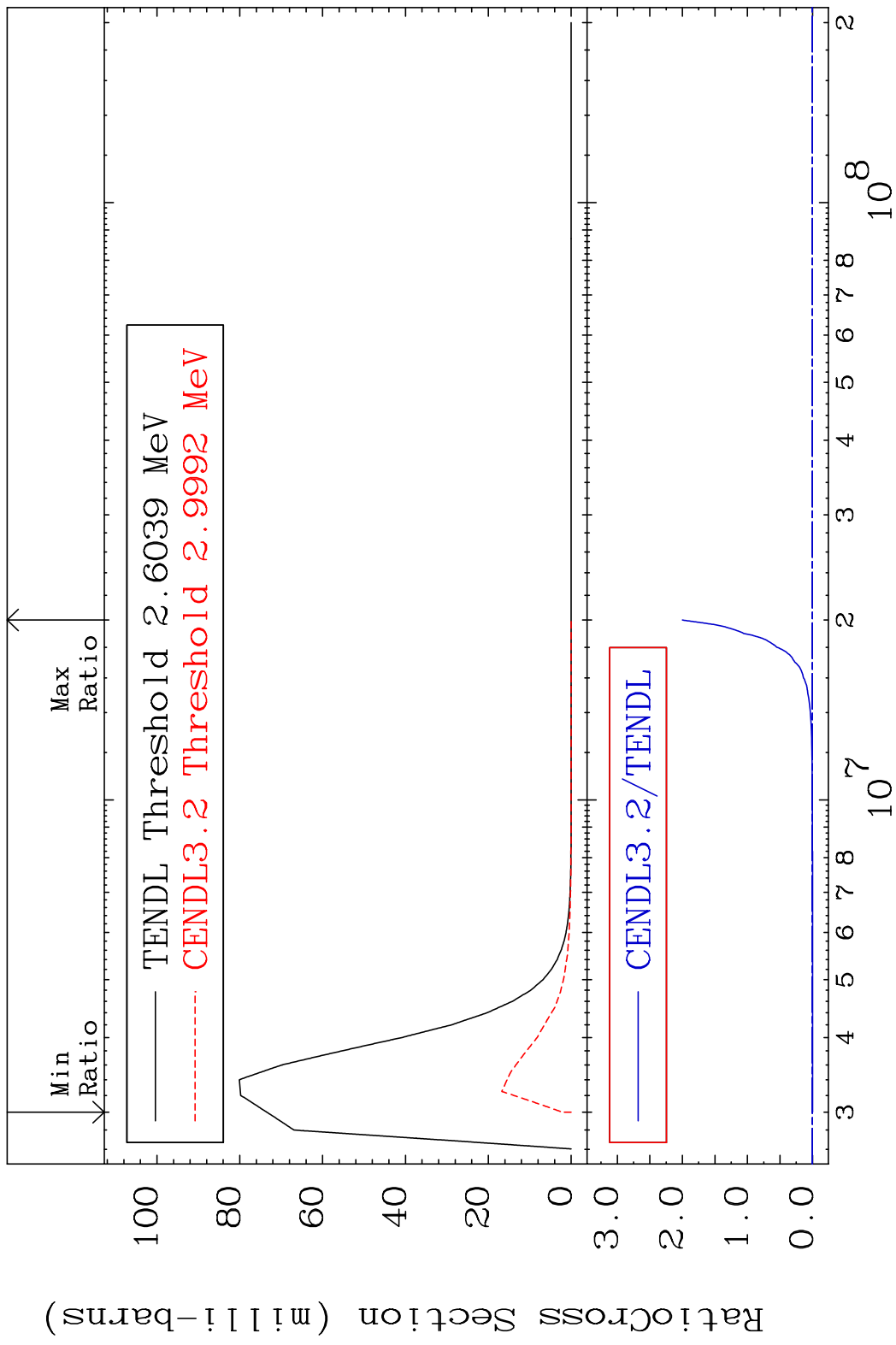
MAT 6025 MT= 63 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 9999. %



MAT 6025 MT= 64 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To -60.86%



MAT 6025 MT= 65 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 9999. %

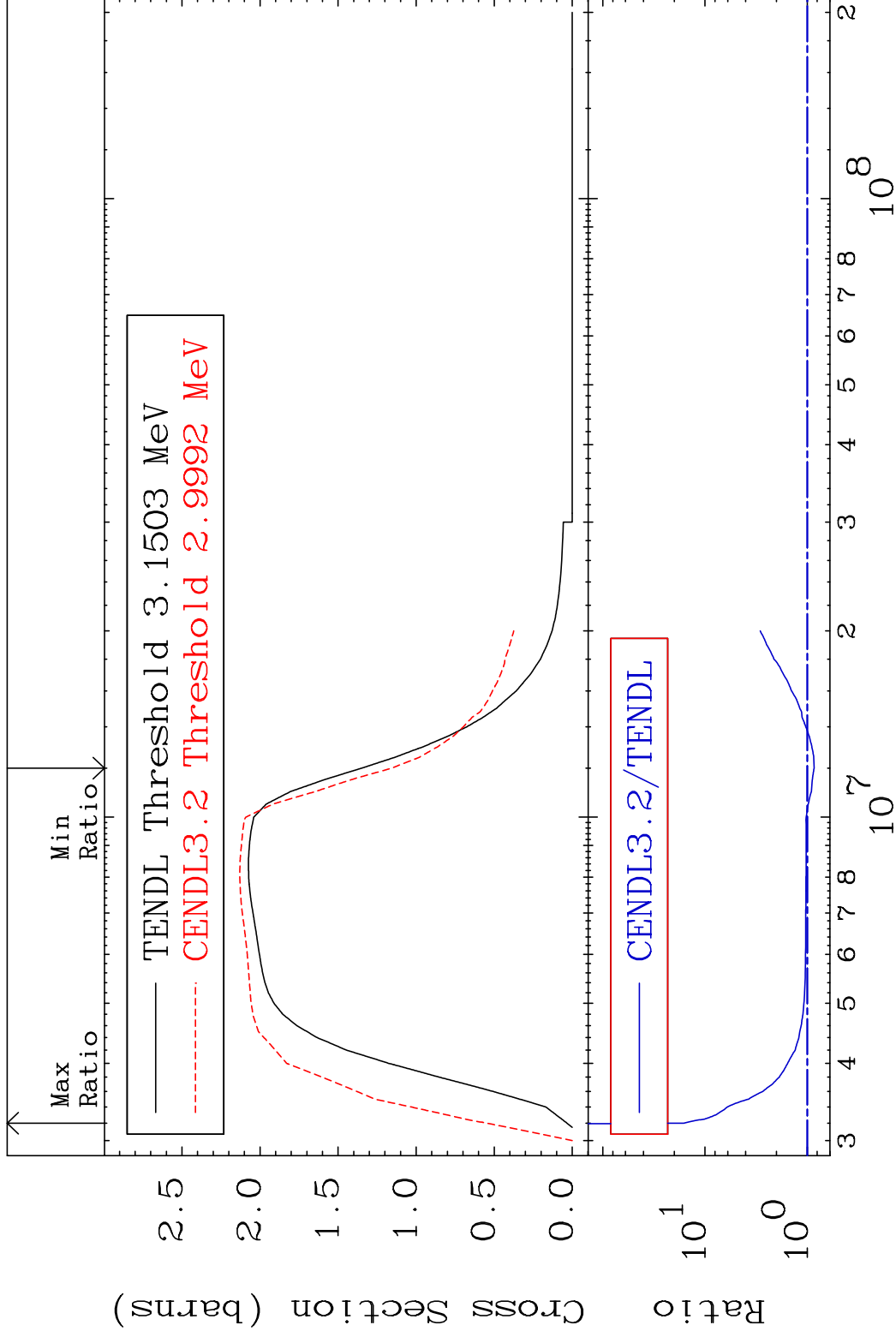


MAT 6025

(n, n') Continuum

60-Nd-142

Cross Section -14.33 To 1519. %



23

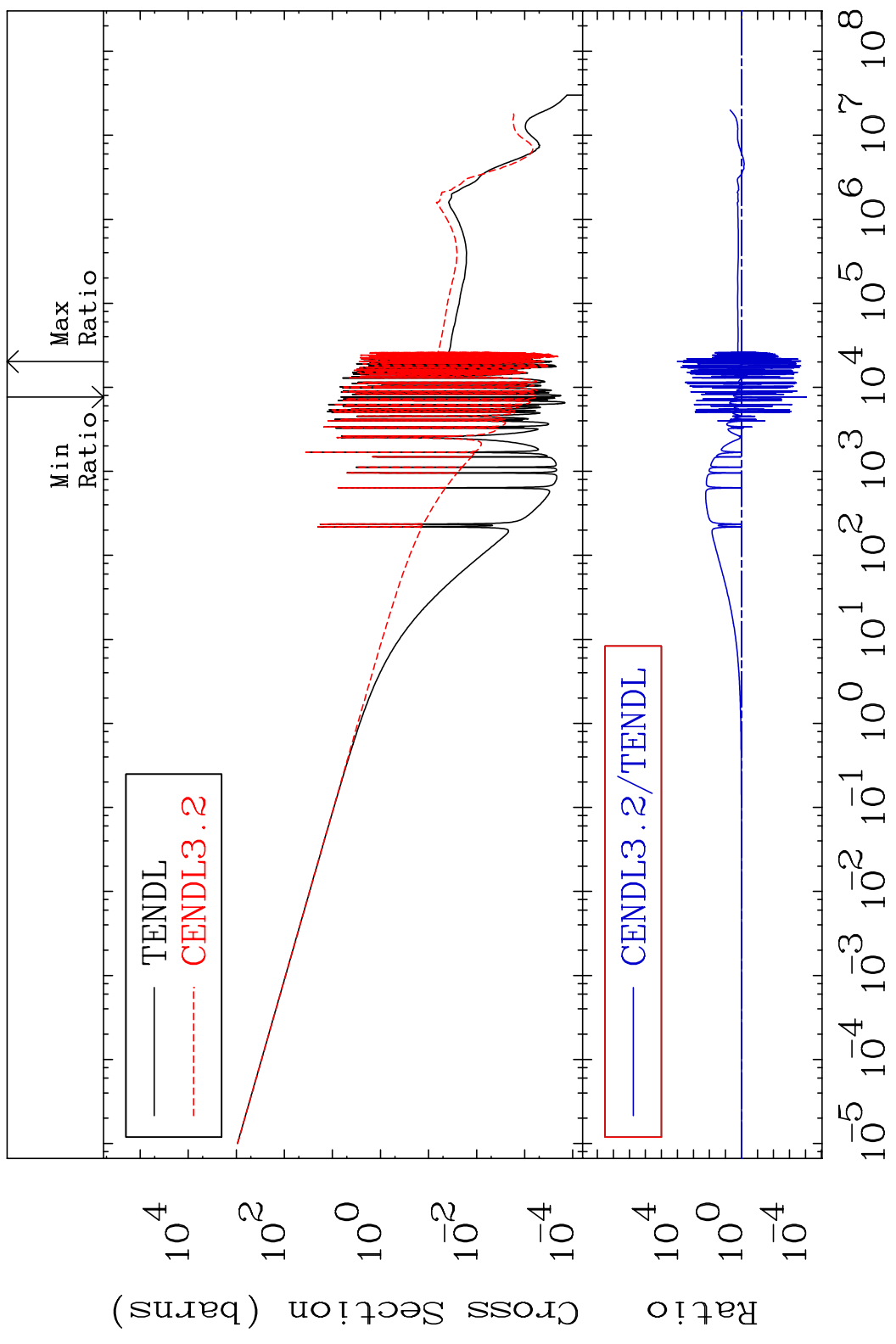
Incident Energy (eV)

60-Nd-142

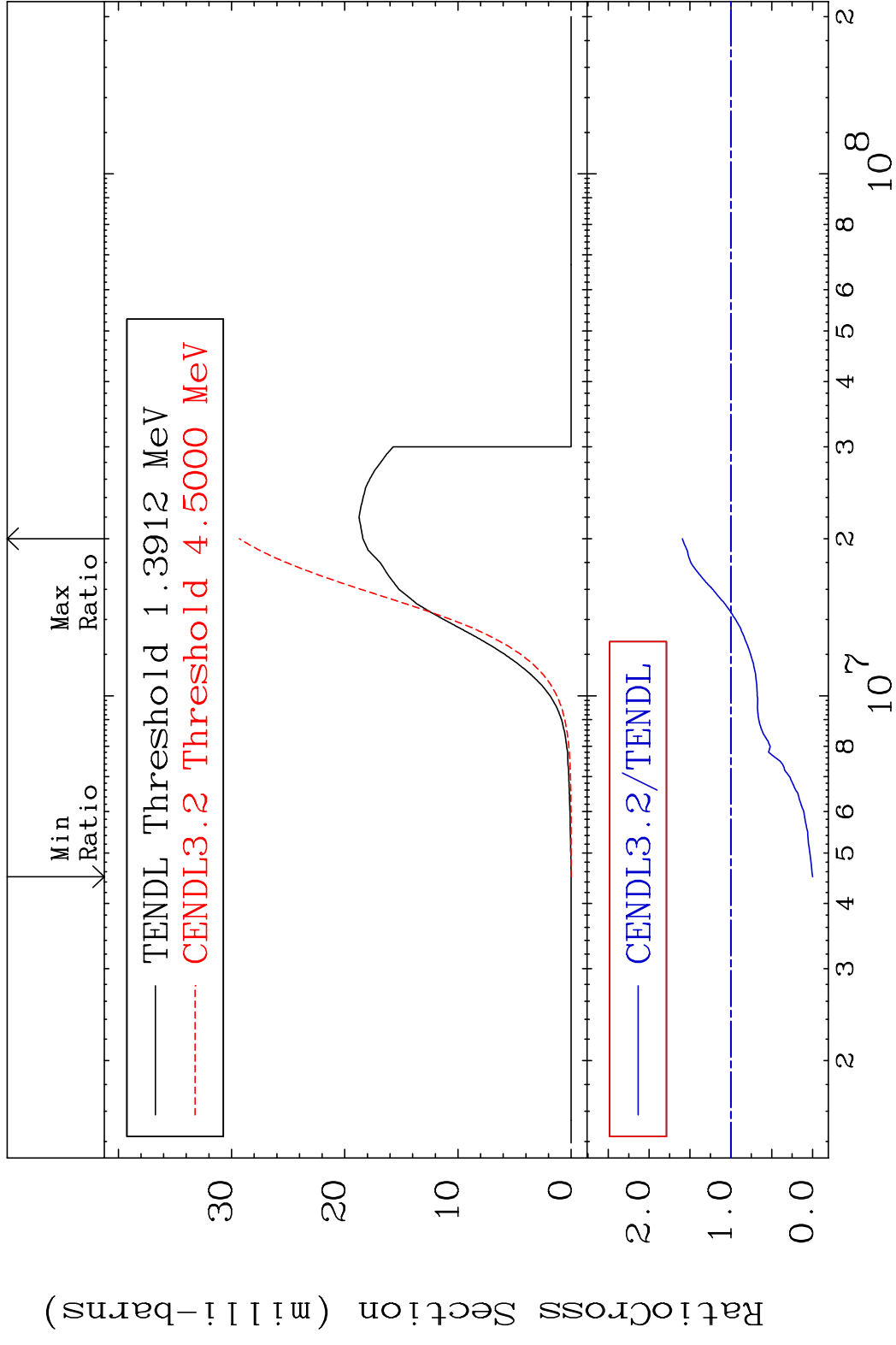
MAT 6025

(n,  $\gamma$ )

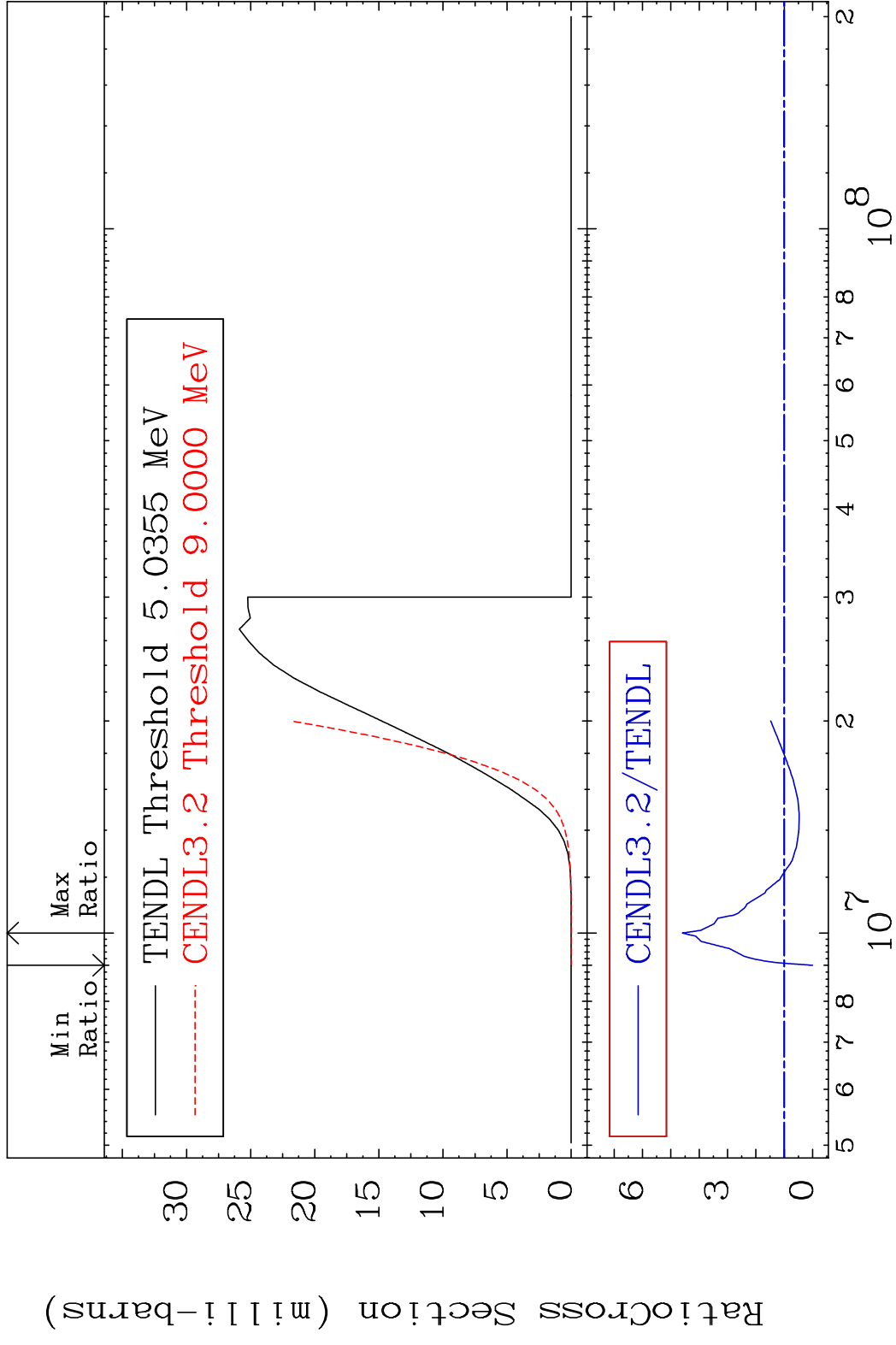
Cross Section  
-99.99 To 9999. %  
60-Nd-142



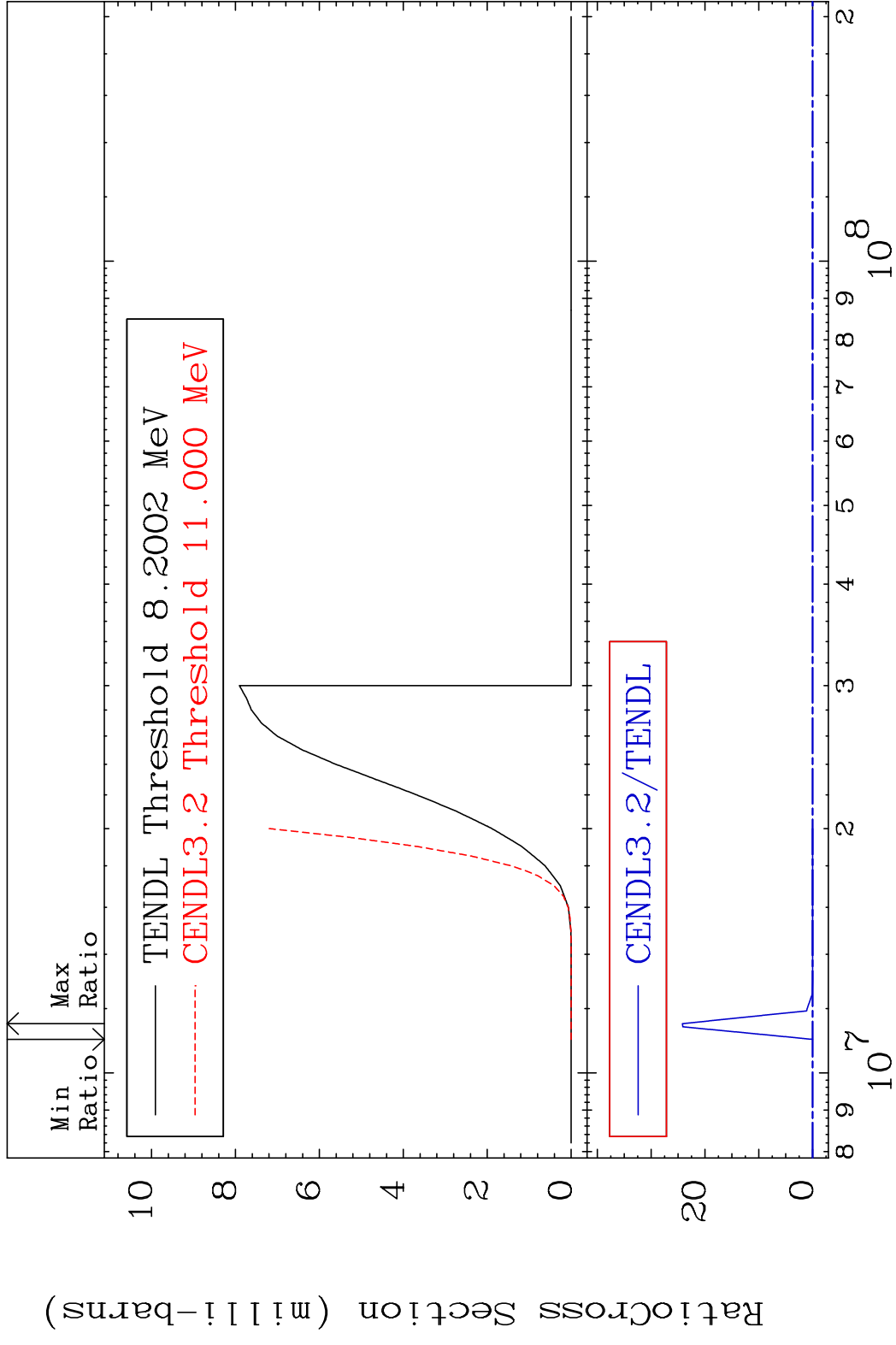
MAT 6025 (n,p) 60-Nd-142  
 Cross Section -100.0 To 59.36 %



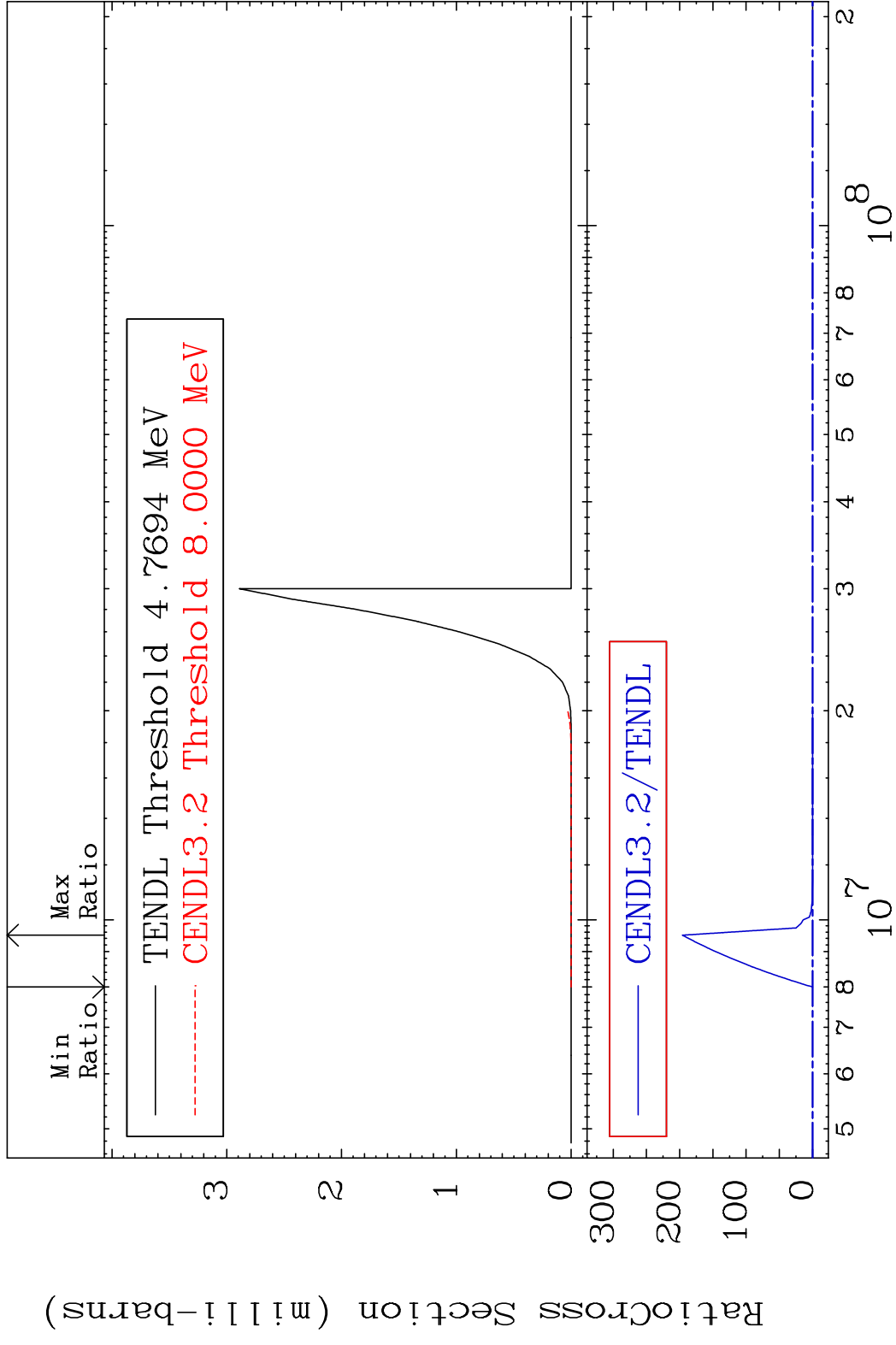
MAT 6025 (n,d) 60-Nd-142  
 Cross Section -100.0 To 359.4 %



MAT 6025 (n, t) 60-Nd-142  
 Cross Section -100.0 To 9999. %



MAT 6025 (n, He-3) 60-Nd-142  
 Cross Section -100.0 To 9999. %

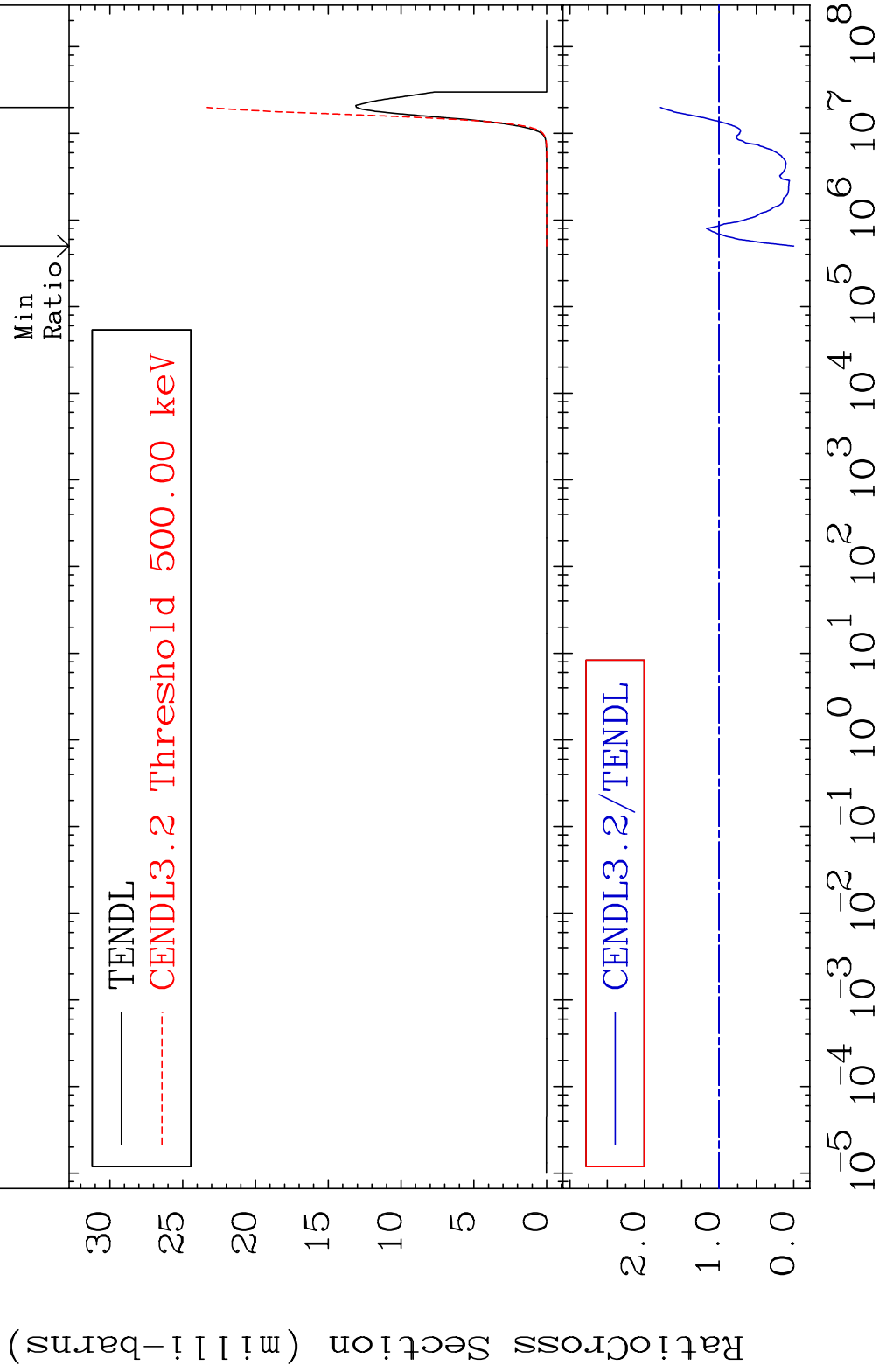


MAT 6025

(n,  $\alpha$ )

60-Nd-142

Cross Section -100.0 To 78.59 %

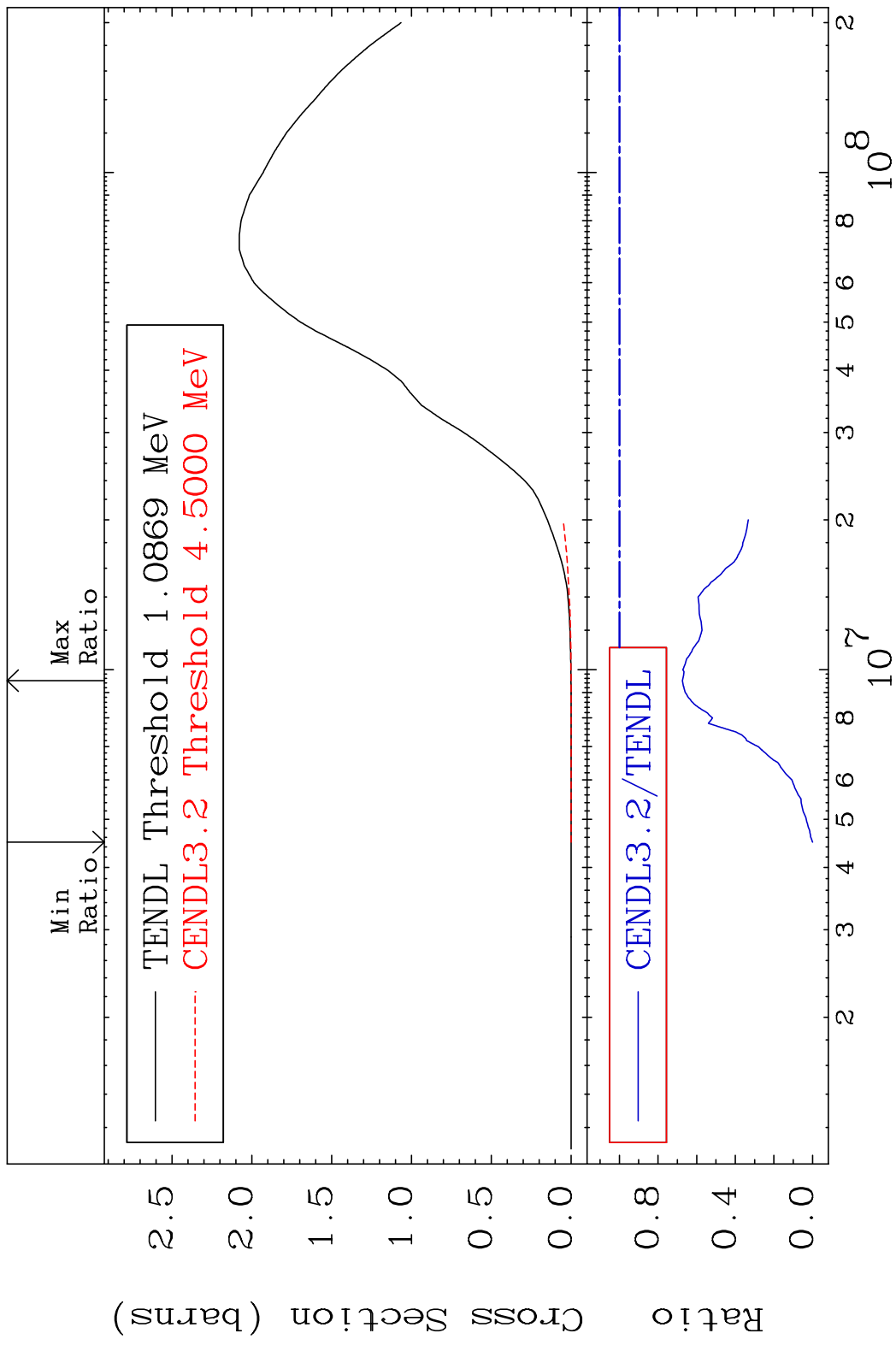


29

Incident Energy (eV)

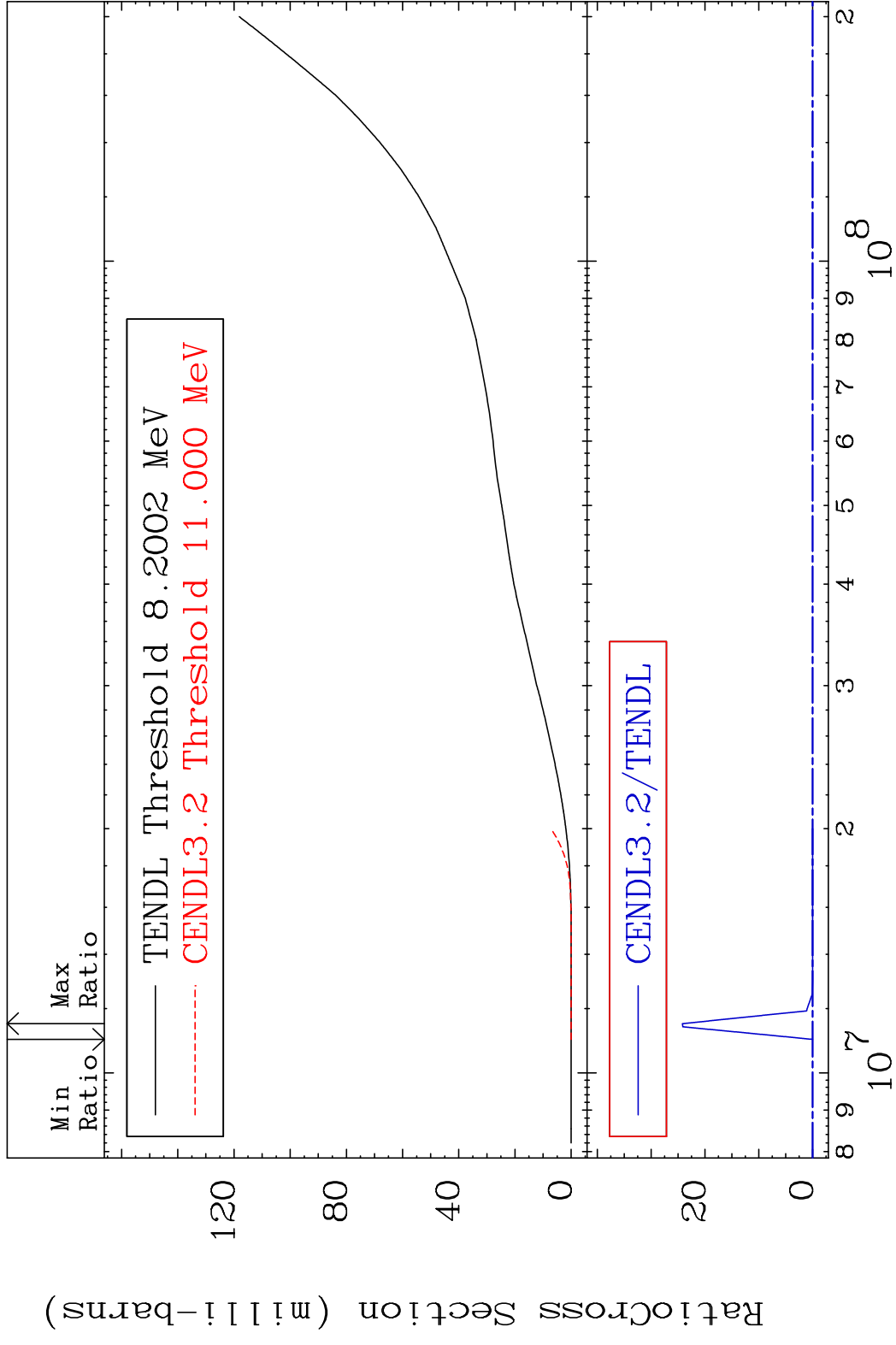
60-Nd-142

MAT 6025 Hydrogen Production 60-Nd-142  
 Cross Section -100.0 To -32.60%

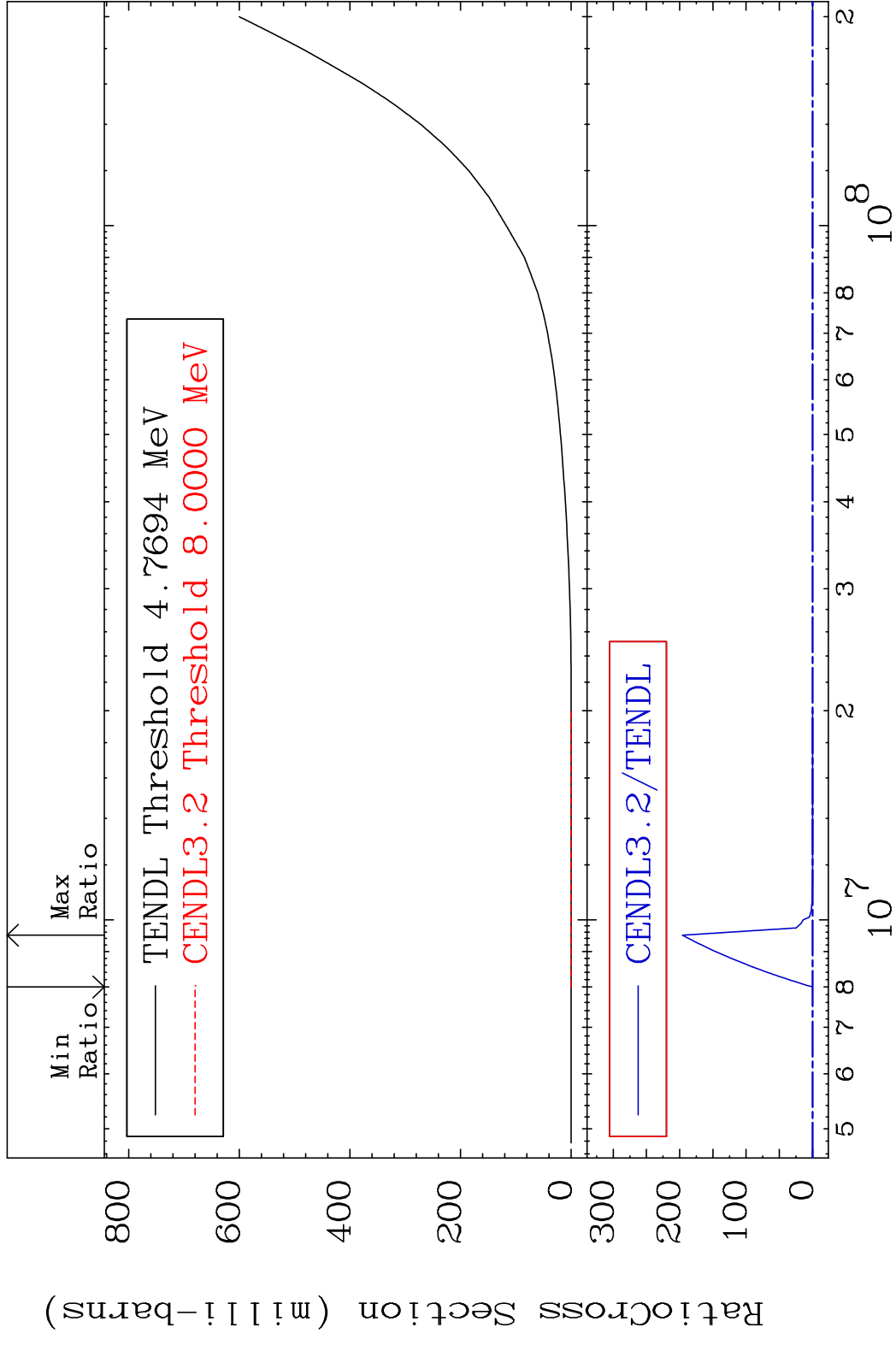




MAT 6025 Tritium Production 60-Nd-142  
 Cross Section -100.0 To 9999. %



MAT 6025 He-3 Production 60-Nd-142  
 Cross Section -100.0 To 9999. %



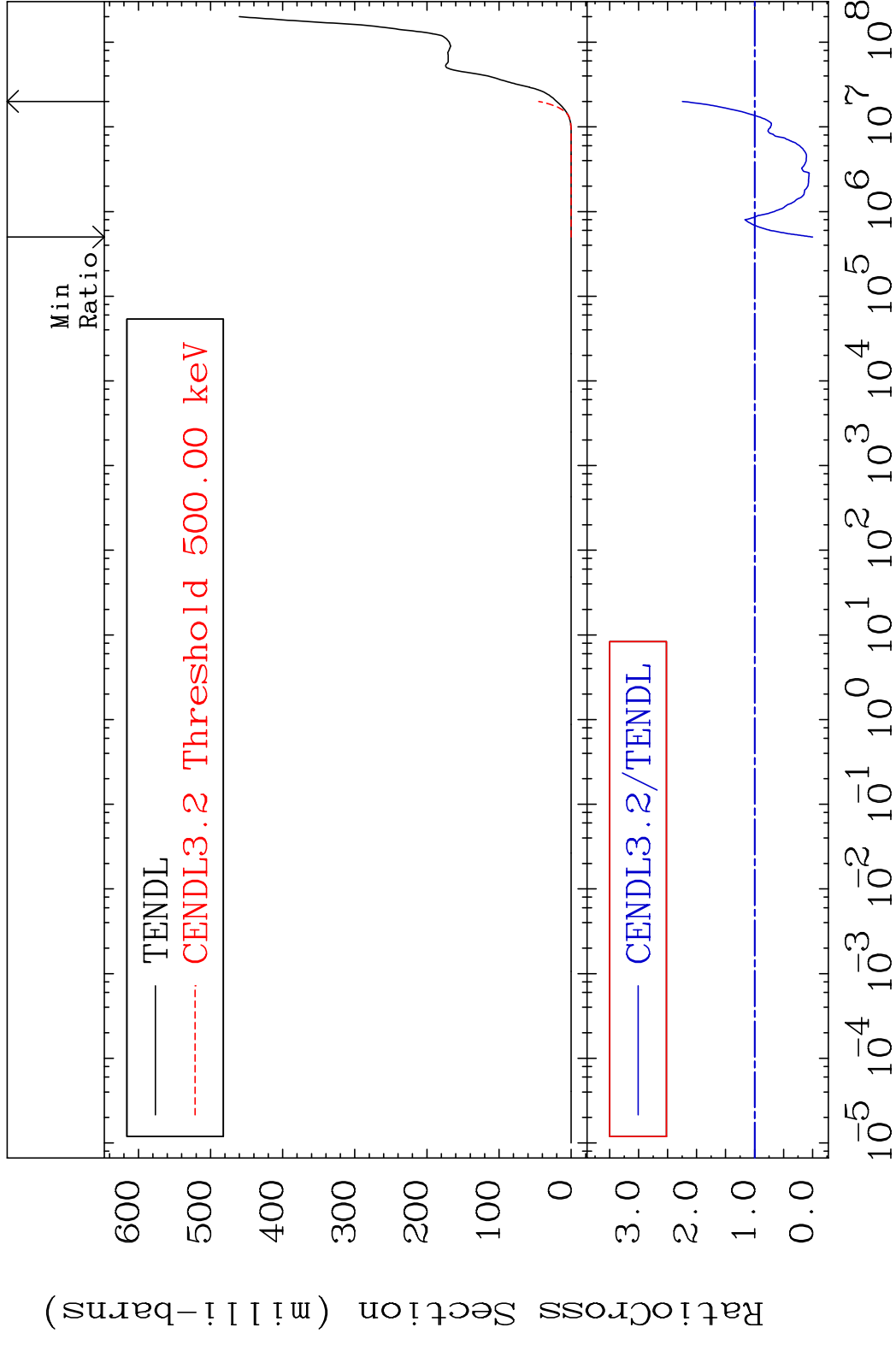
MAT 6025

He-4 Production

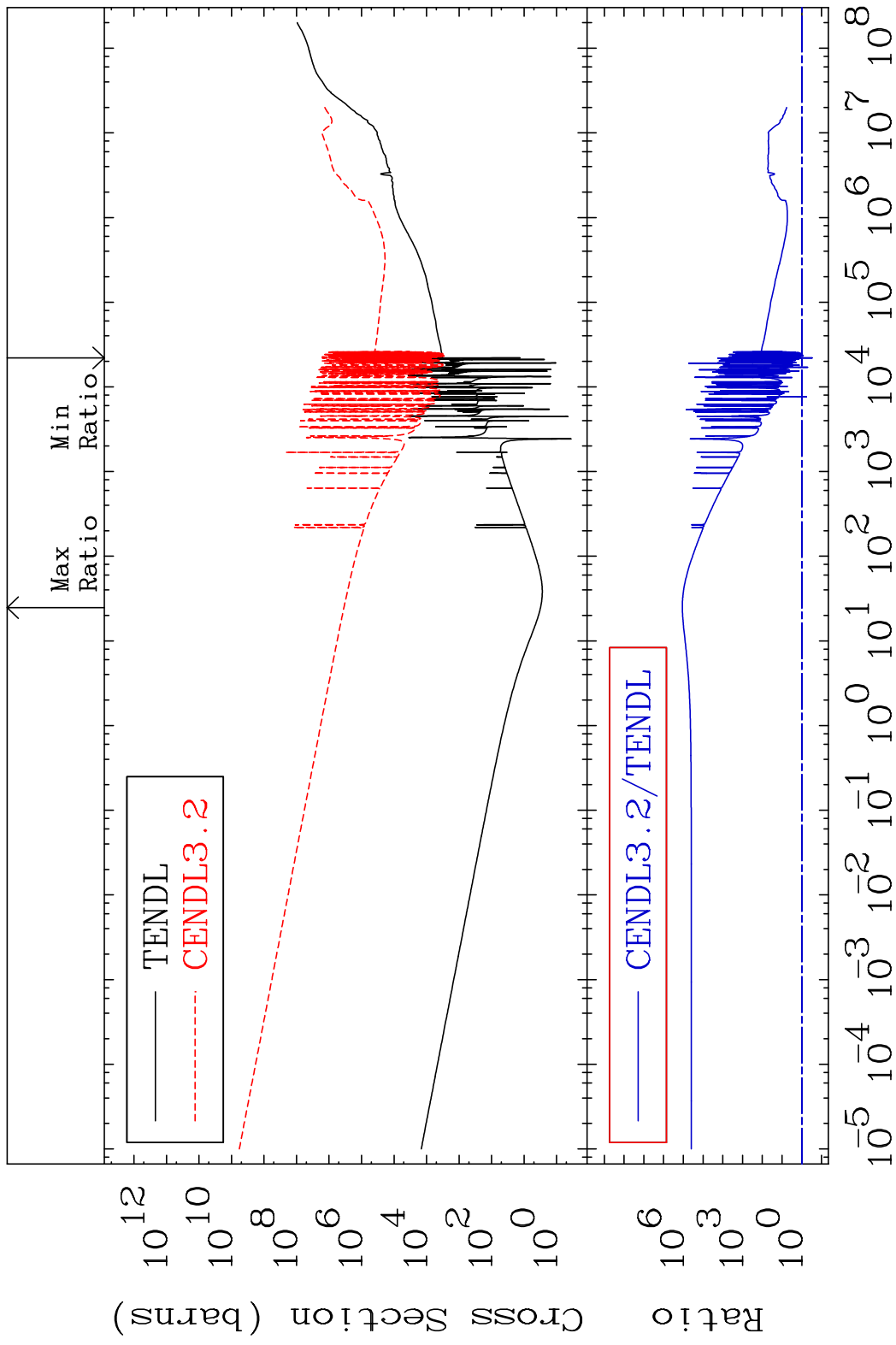
60-Nd-142

Cross Section

-100.0 To 124.6 %



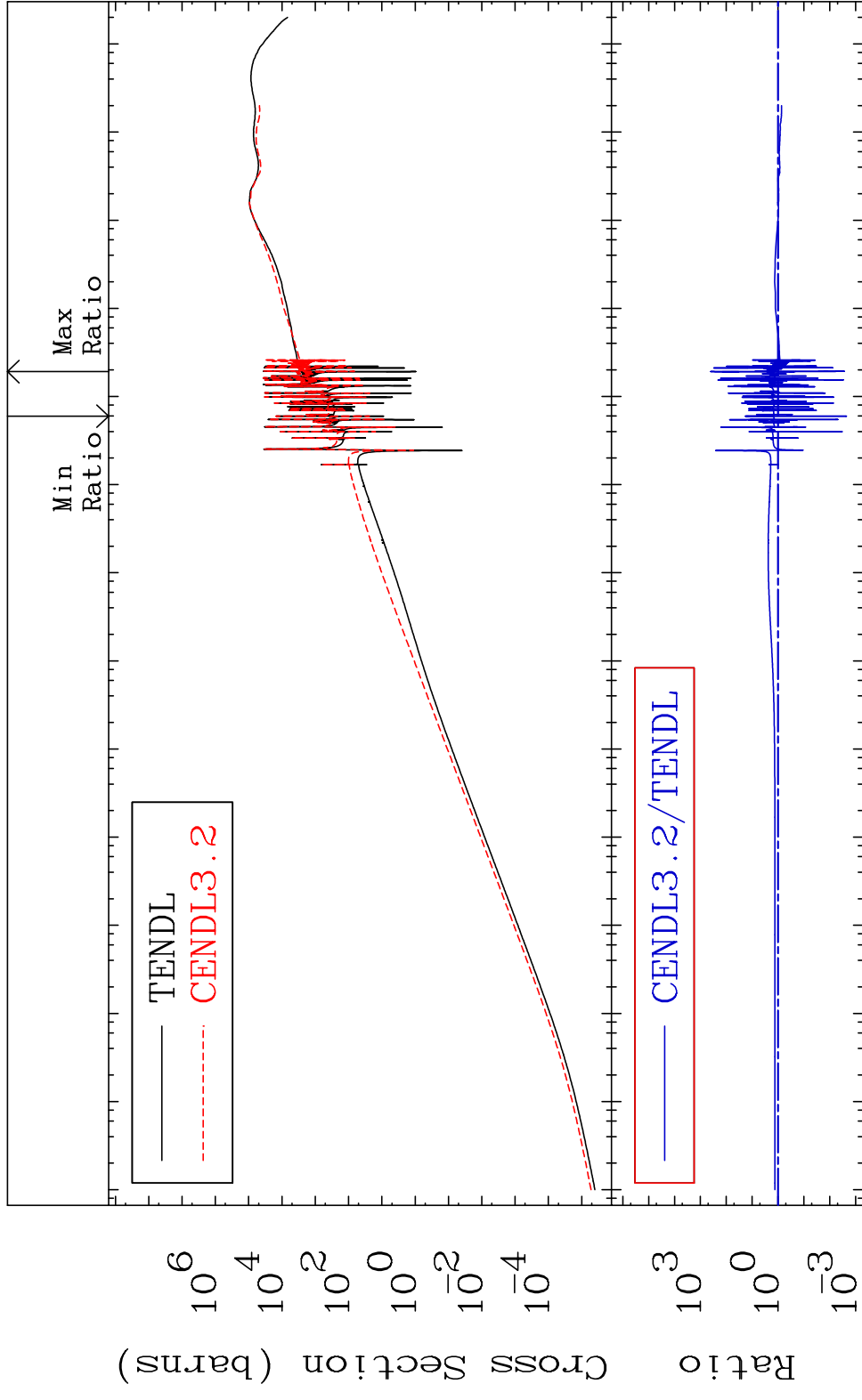
MAT 6025 Kerma total (eV-barns) 60-Nd-142  
 Cross Section -71.37 To 9999. %



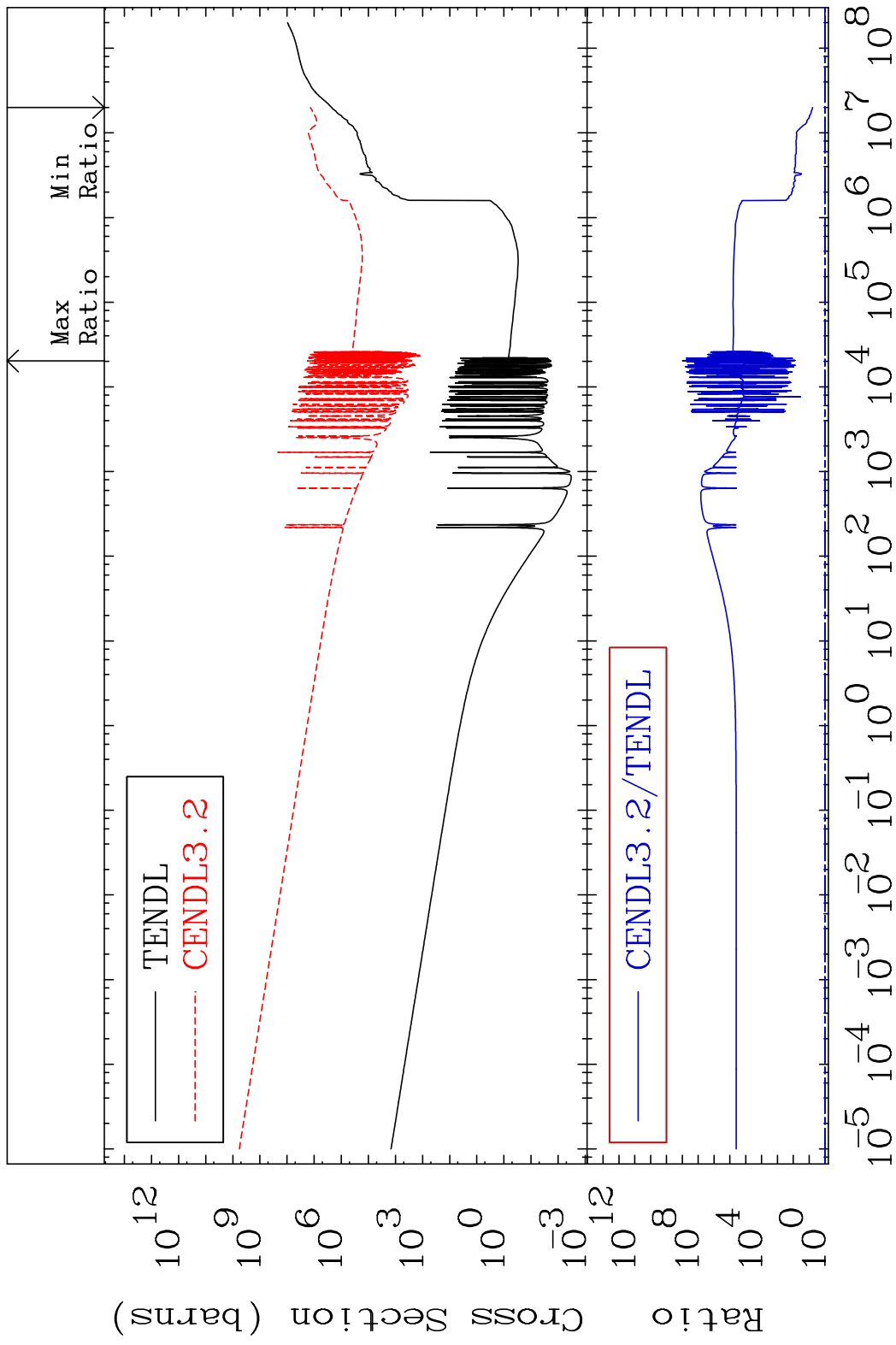
MAT 6025

Kerma elastic  
Cross Section

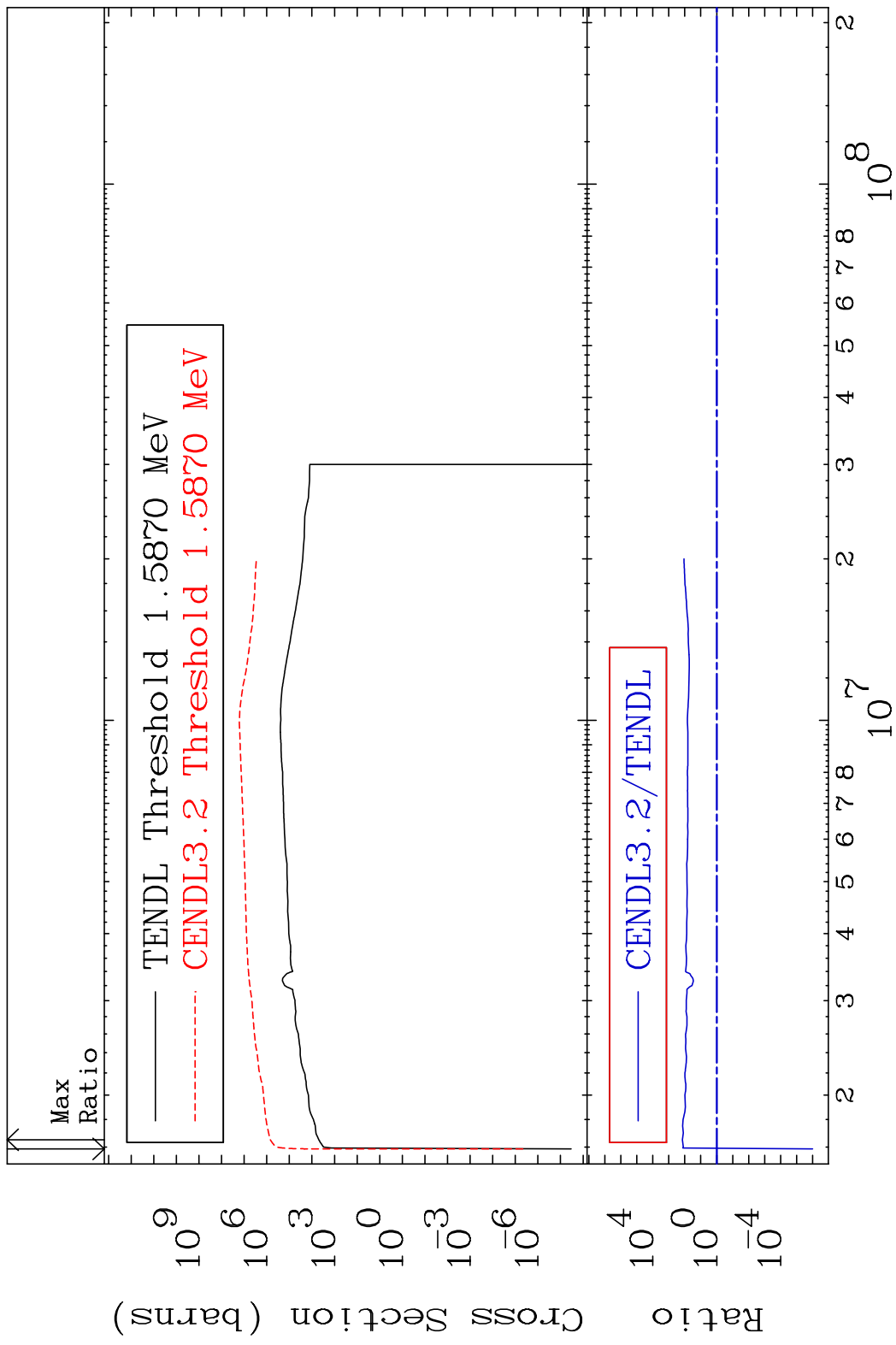
60-Nd-142  
-99.777 To 9999. %



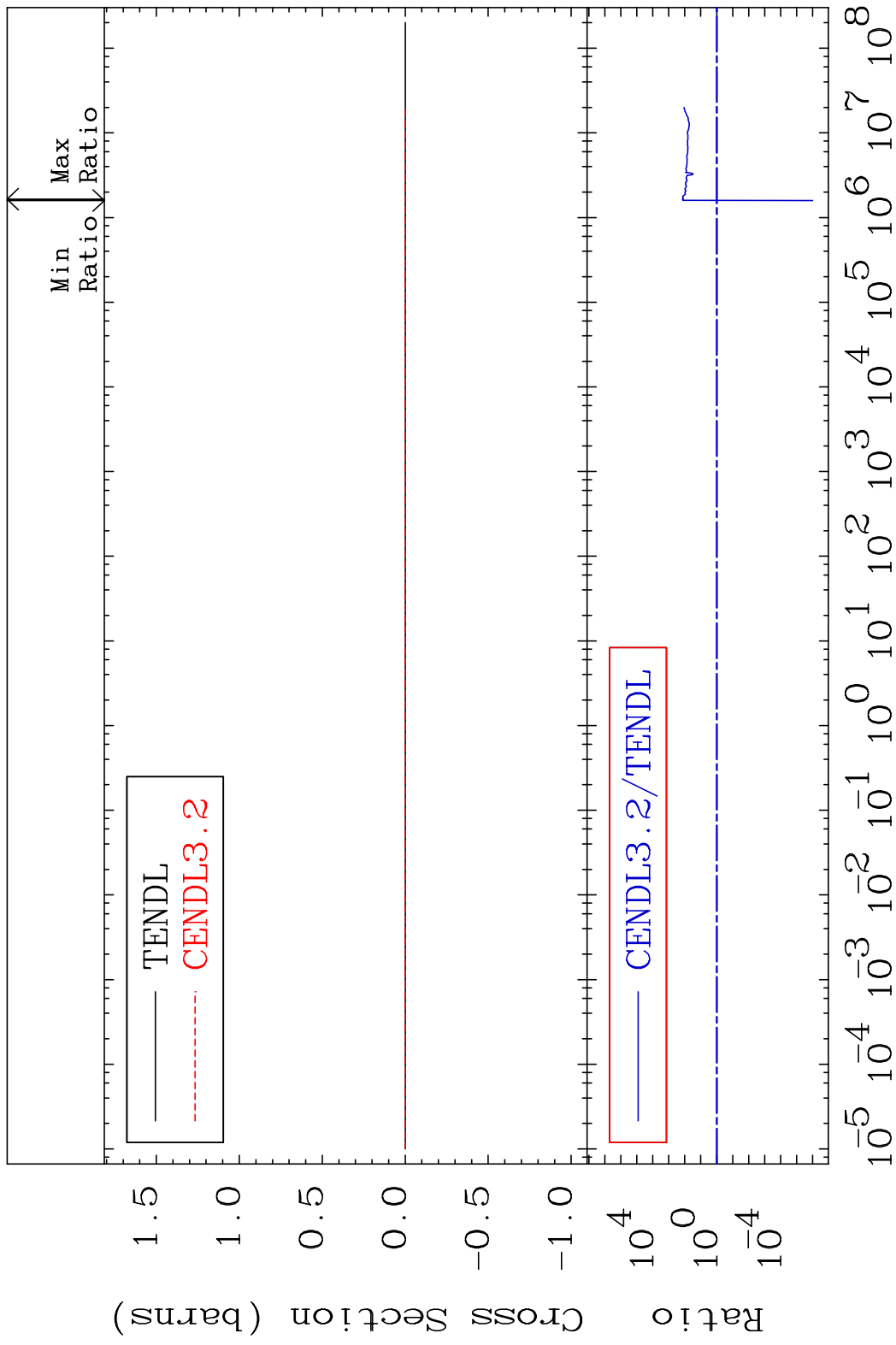
MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142  
 Cross Section 505.4 To 9999. %



MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142  
 Cross Section -100.0 To 9999. %

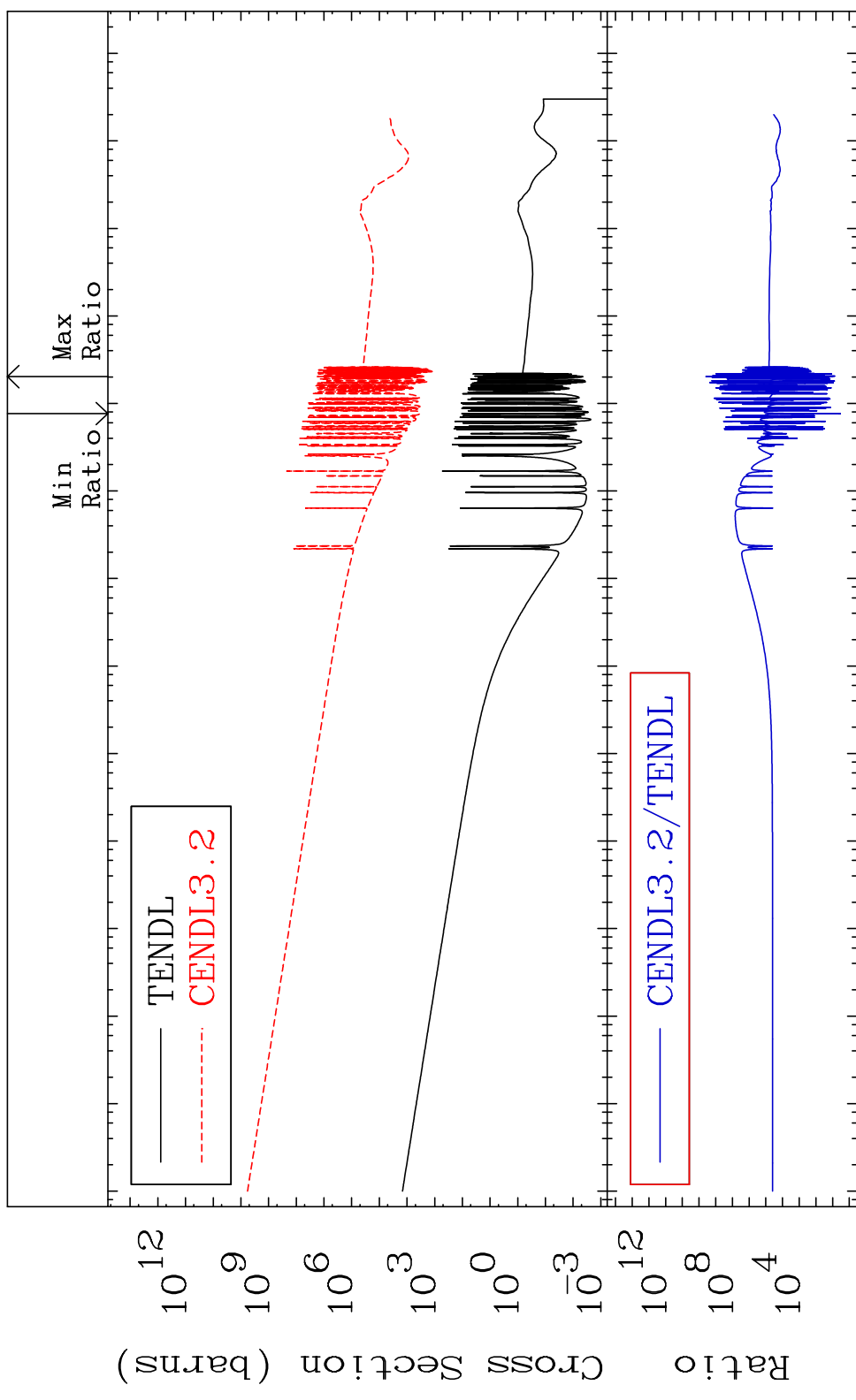


MAT 6025 Kerma fission (mt18 or mt19-20-21-38) <sup>60</sup>Nd-142  
 Cross Section -100.0 To 9999. %



MAT 6025

Kerma capture (mt102) 60-Nd-142  
Cross Section 3296. To 9999. %

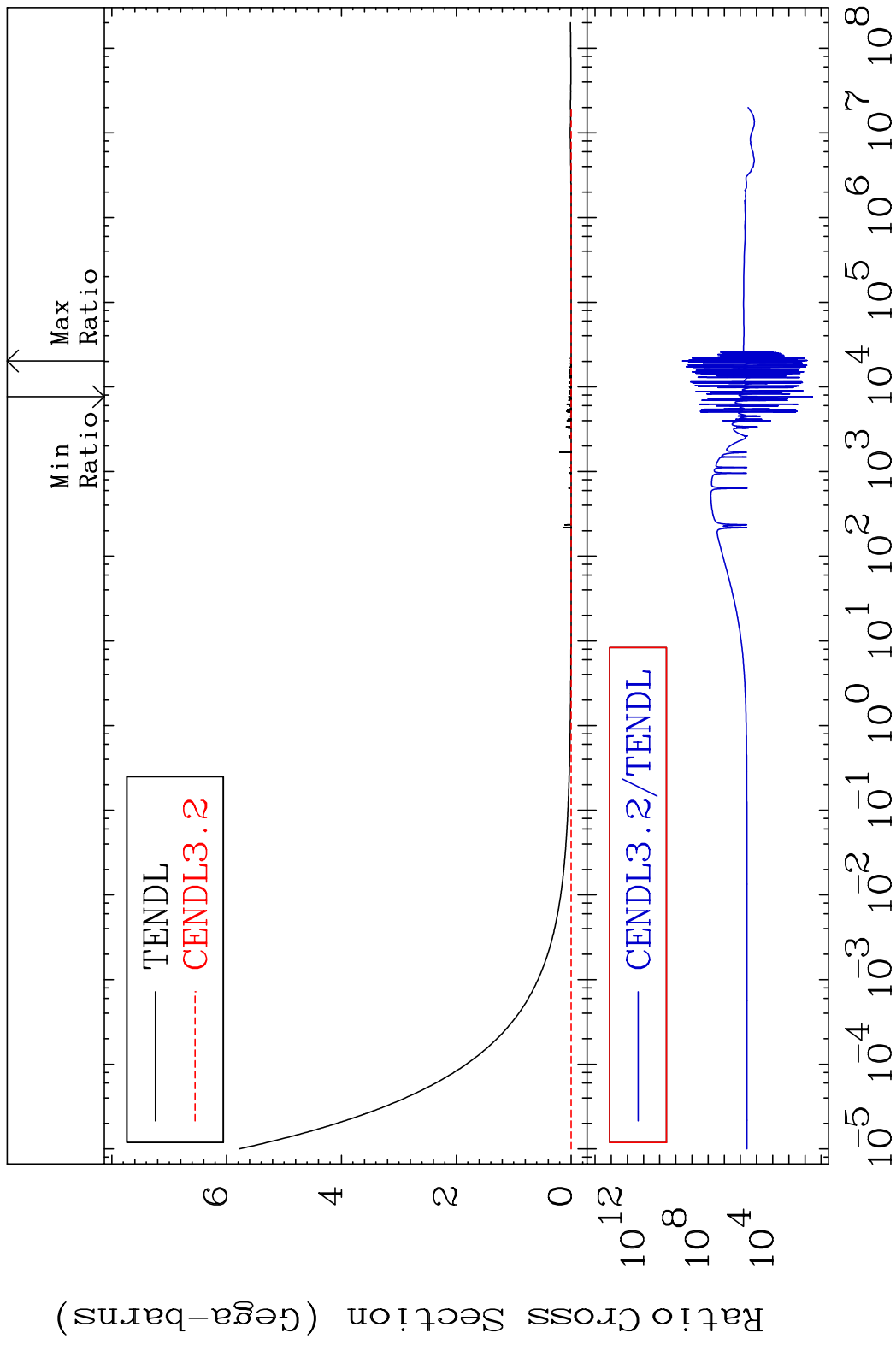


40

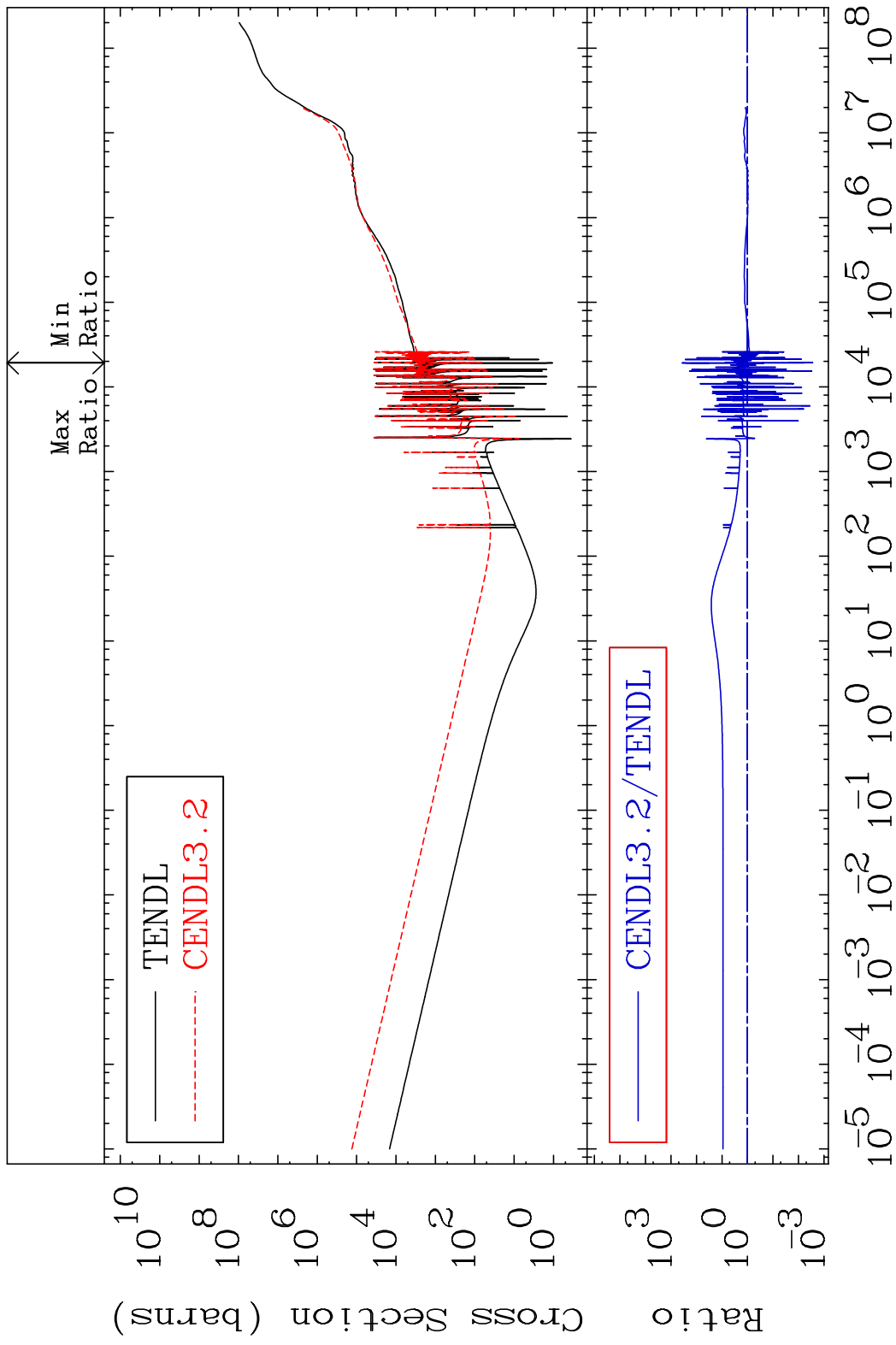
Incident Energy (eV)

60-Nd-142

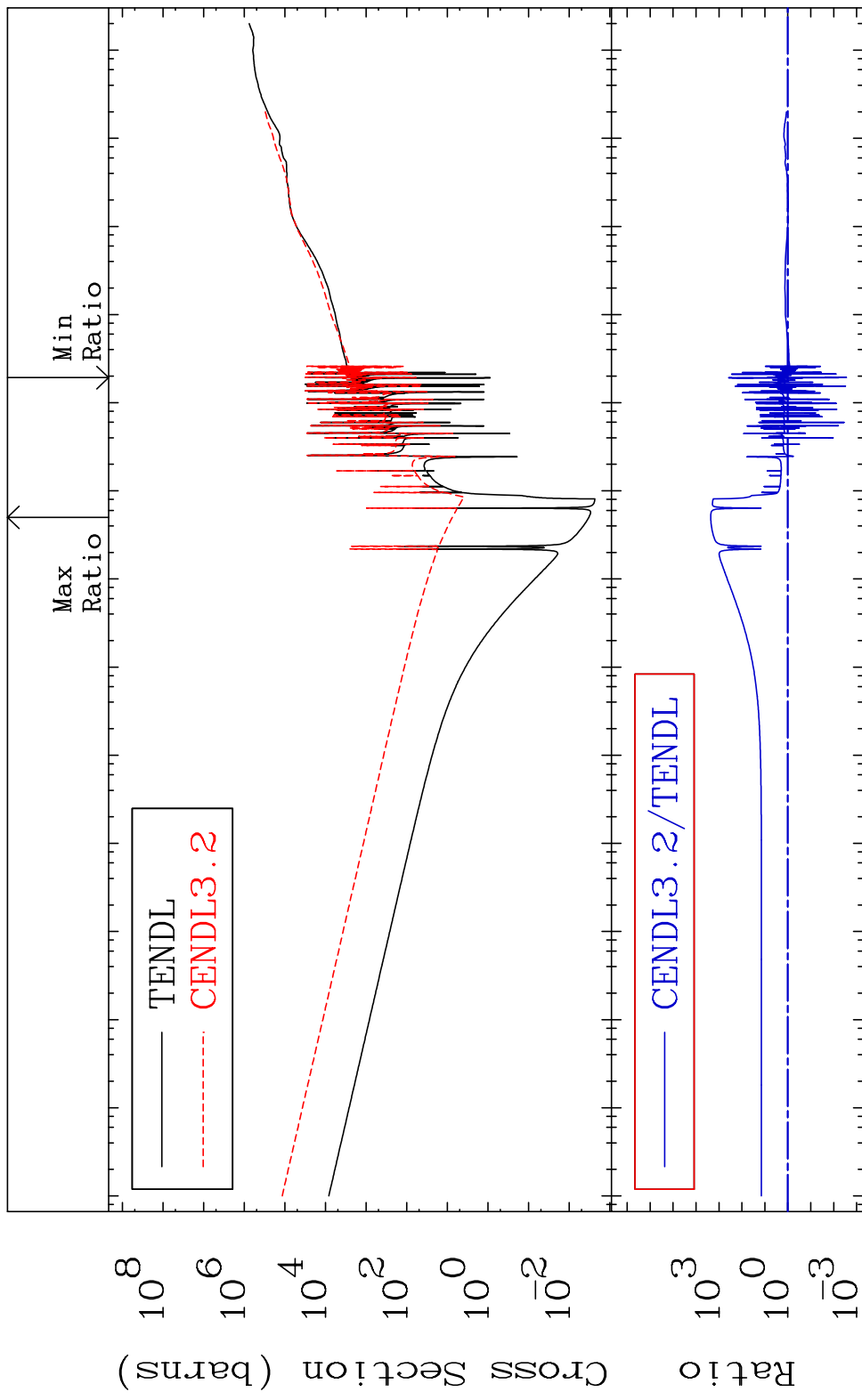
MAT 6025 Total photon (eV-barns) 60-Nd-142  
 Cross Section 3296. To 9999. %



MAT 6025 Total kinematic kerma (high limit) 60-Nd-142  
 Cross Section -99.72 To 9999. %



MAT 6025      Dpa total (eV-barns)      60-Nd-142  
 Cross Section      -99.72 To 9999. %



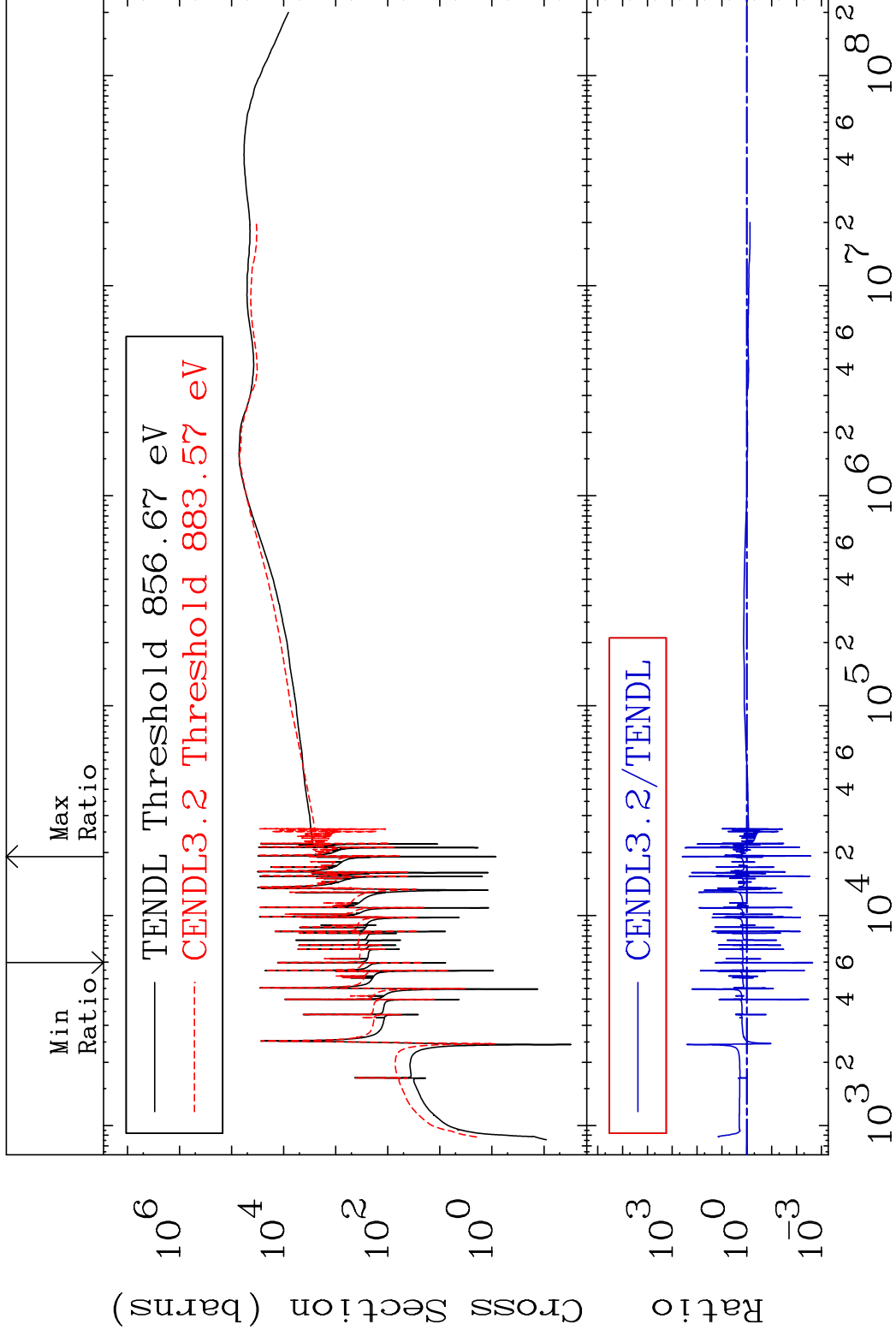
43      Incident Energy (eV)      60-Nd-142

MAT 6025

Dpa elastic (mt2)

60-Nd-142

Cross Section -99.777 To 9999. %

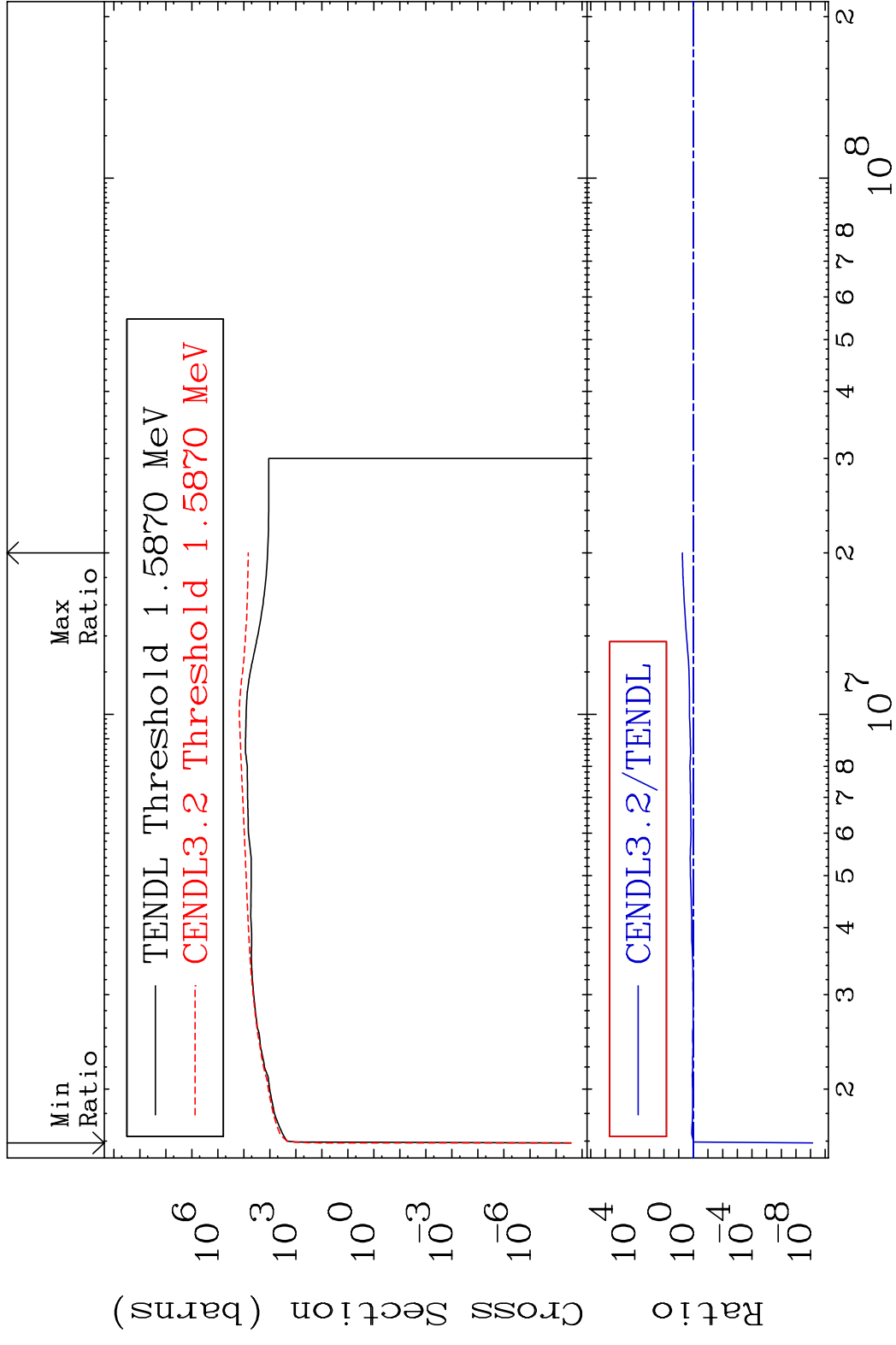


44

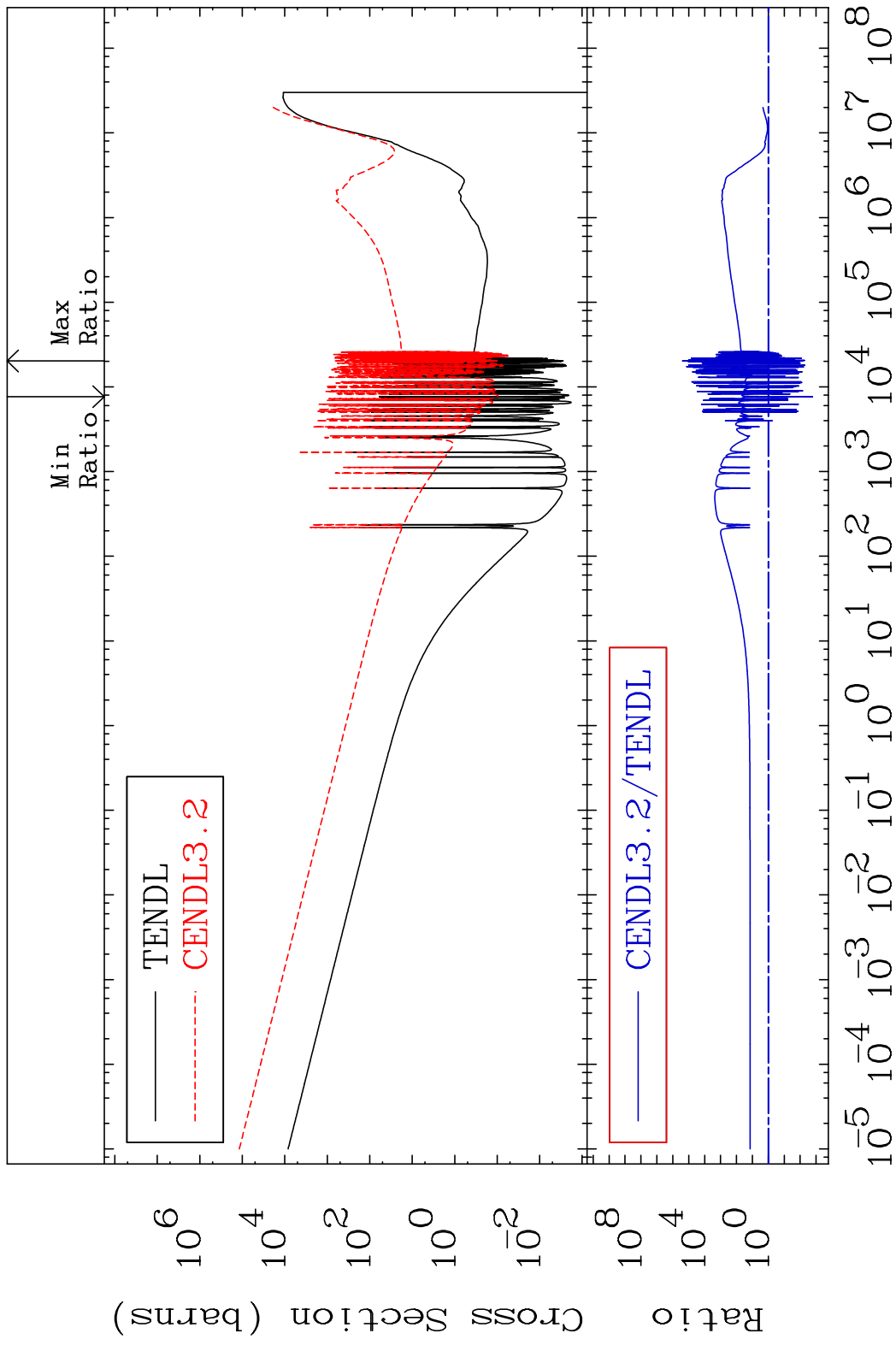
Incident Energy (eV)

60-Nd-142

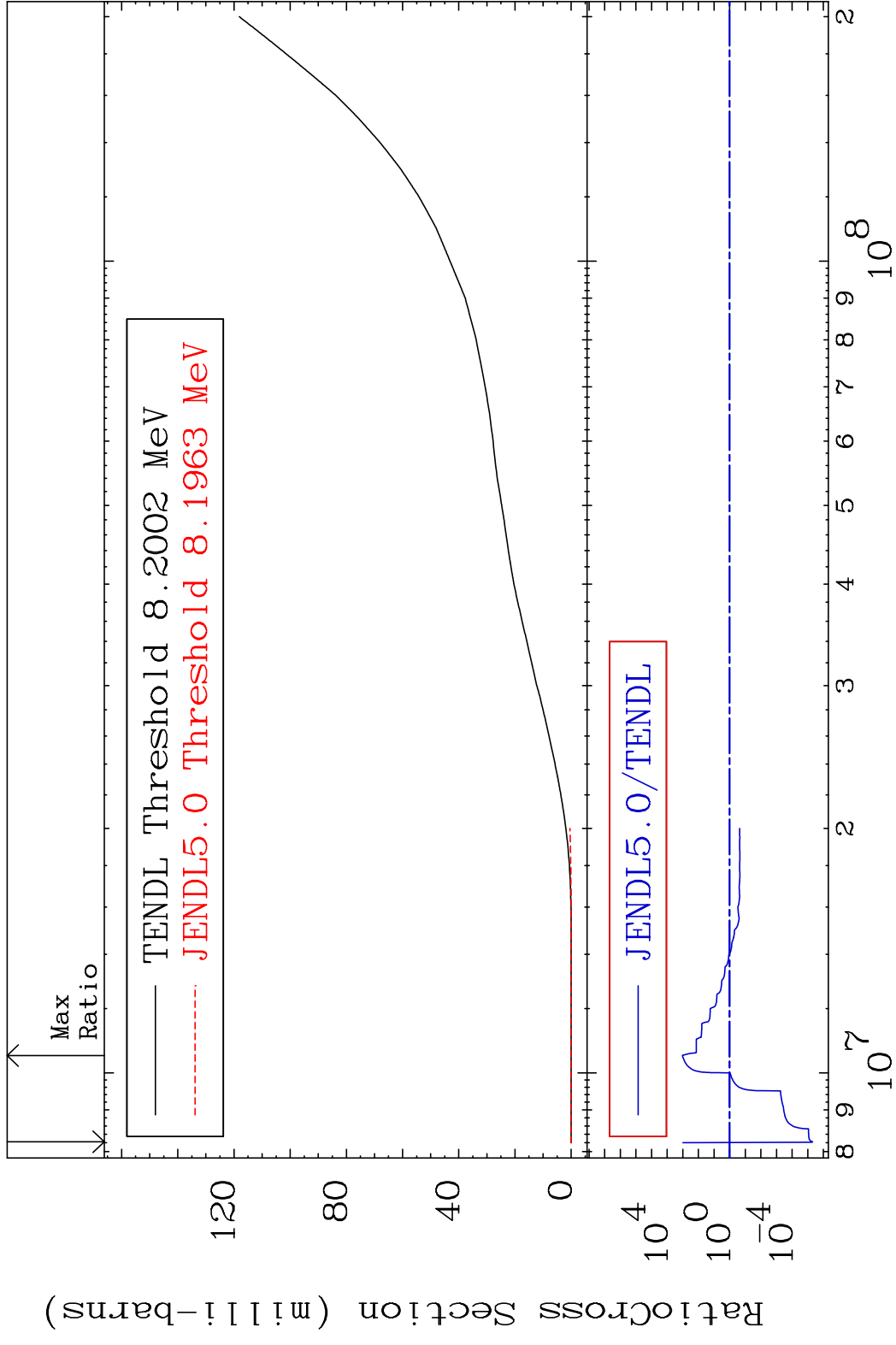
MAT 6025      Dpa inelastic (mt51-91)      60-Nd-142  
 Cross Section      -100.0 To 460.0 %



MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142  
 Cross Section -99.83 To 9999. %



MAT 6025 Tritium Production 60-Nd-142  
 Cross Section -100.0 To 9999. %

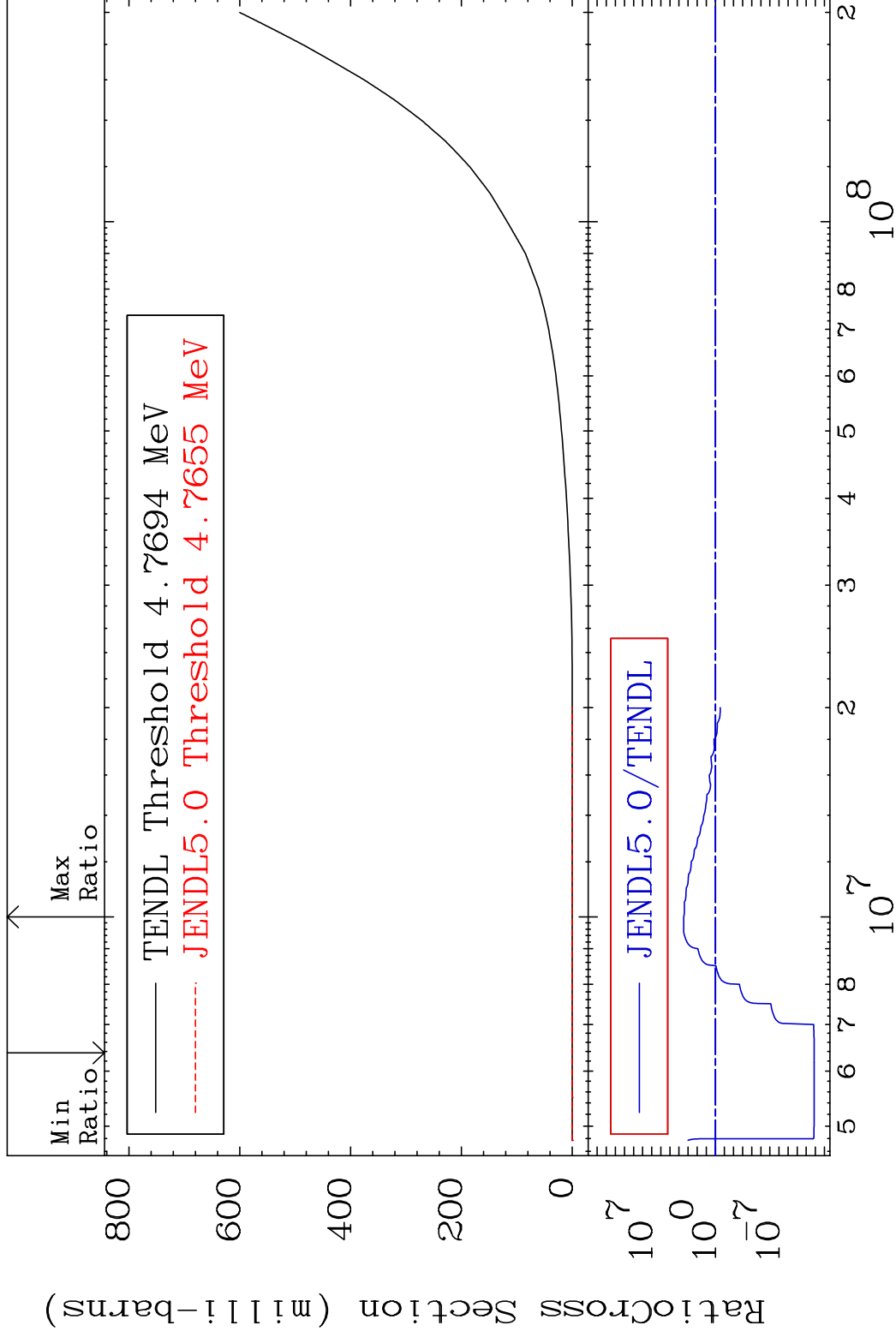


MAT 6025

He-3 Production

60-Nd-142

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

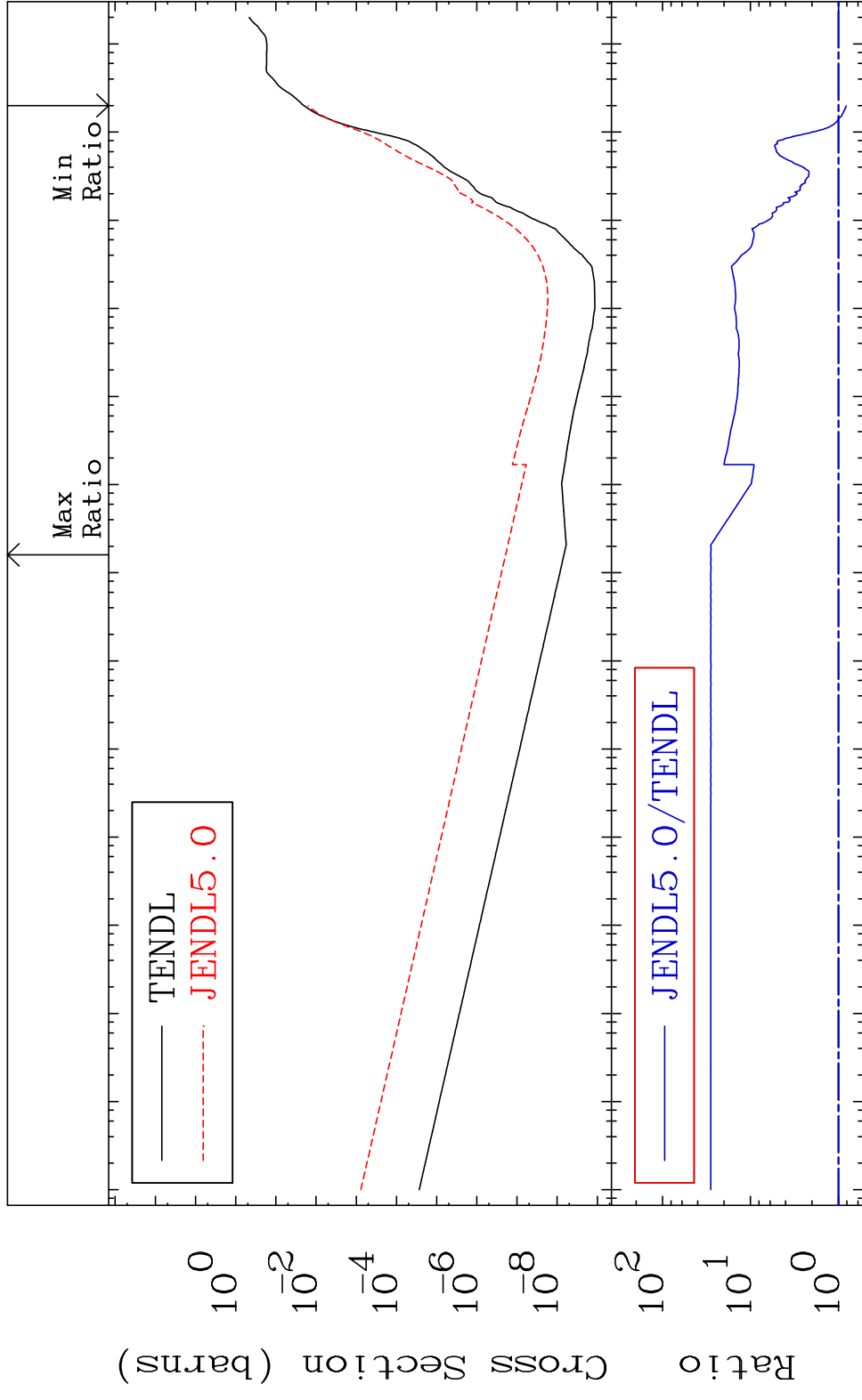
60-Nd-142

MAT 6025

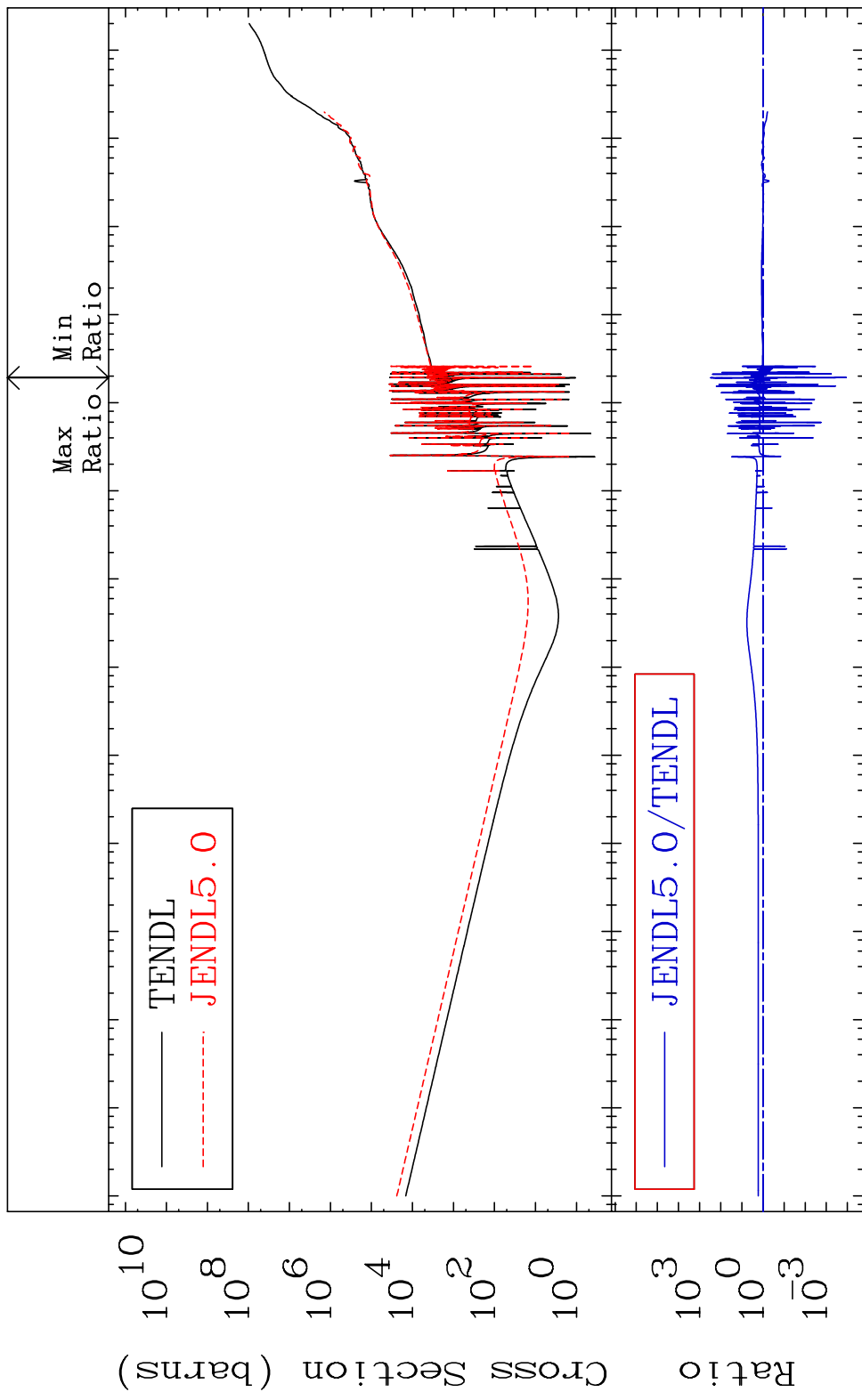
He-4 Production

60-Nd-142

Cross Section -18.70 To 2737. %

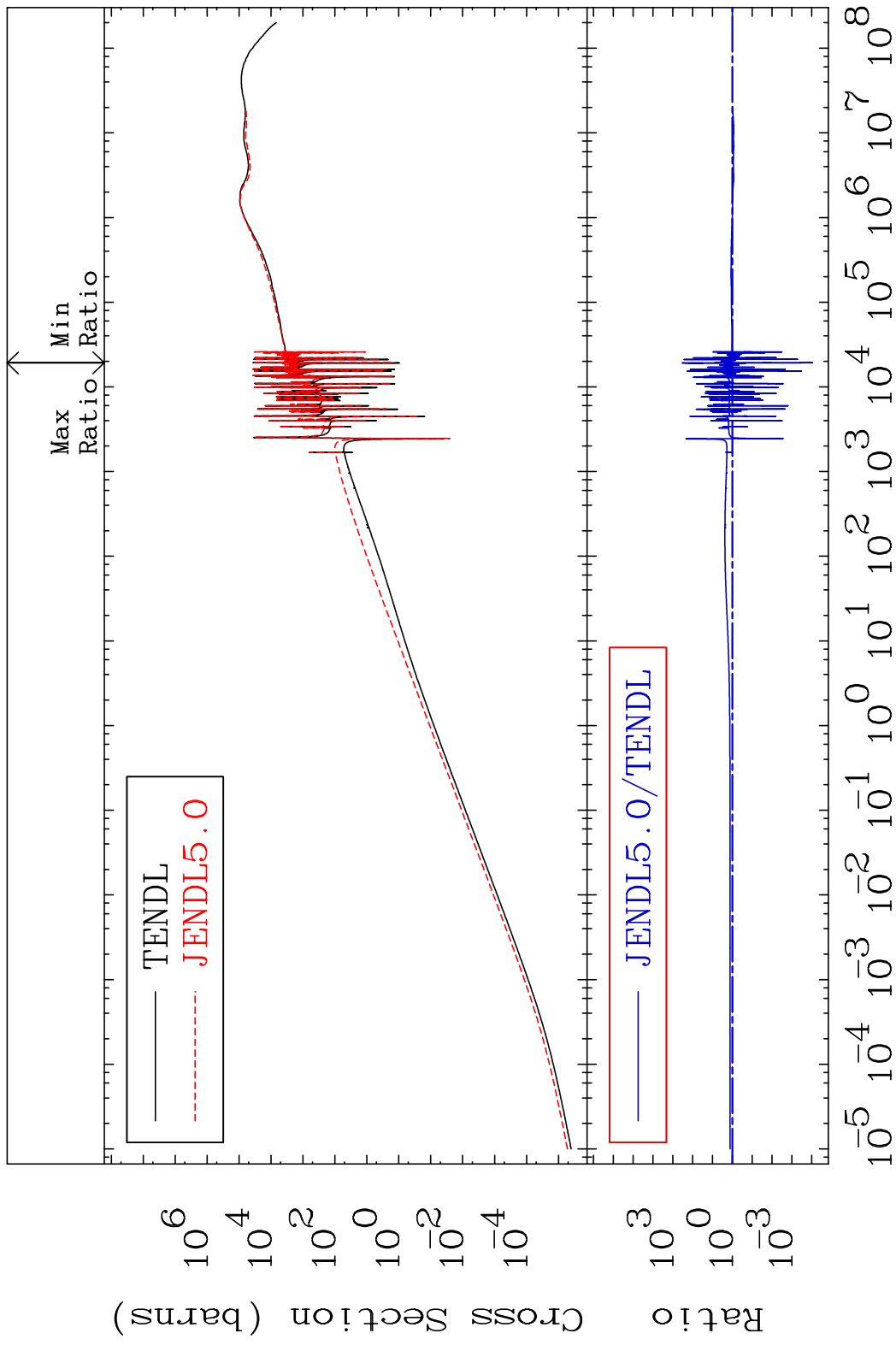


MAT 6025 Kerma total (eV-barns) 60-Nd-142  
 Cross Section -99.99 To 9999. %

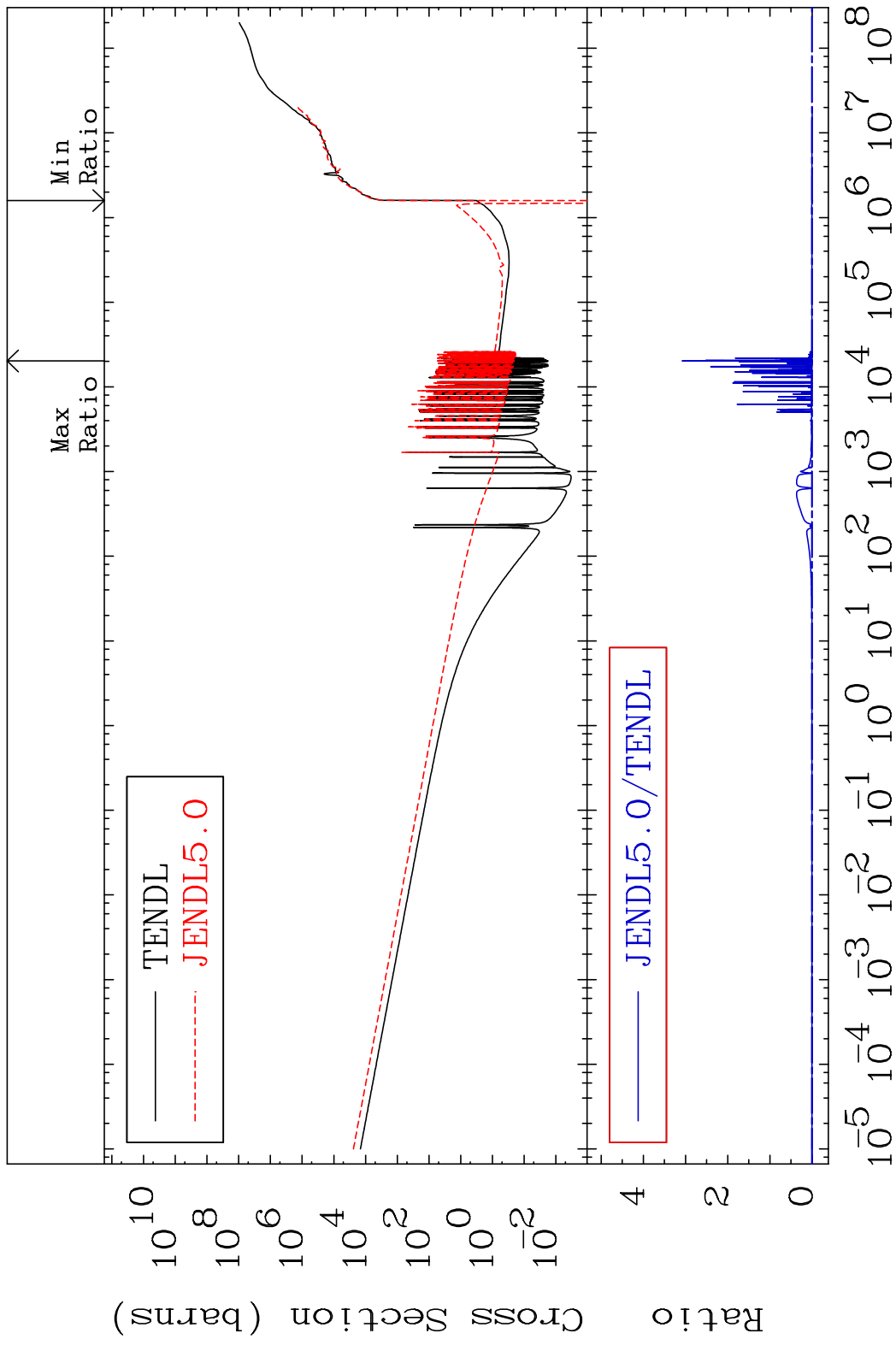


50 Incident Energy (eV) 60-Nd-142

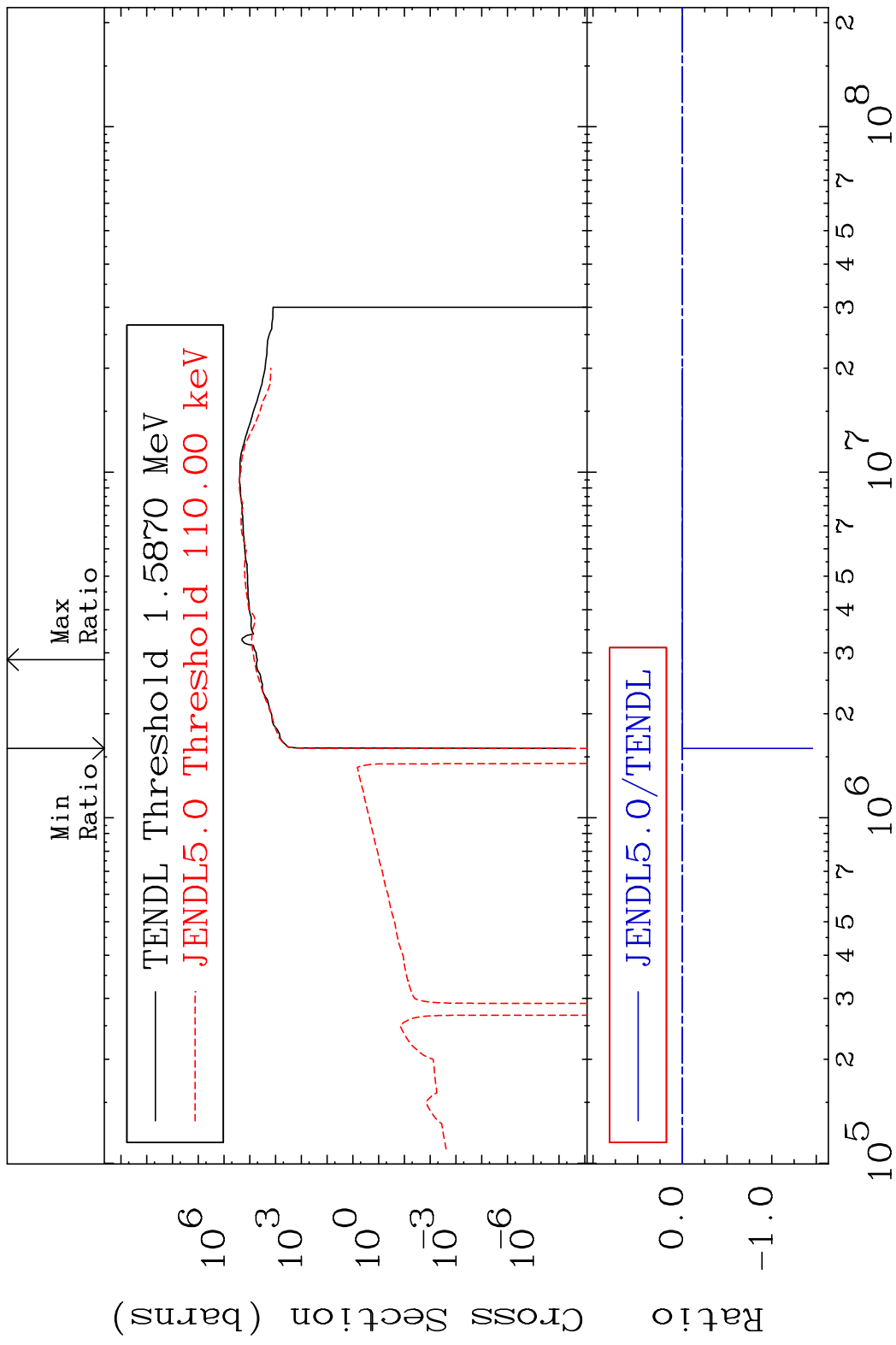
MAT 6025      Kerma elastic      60-Nd-142  
 Cross Section      -99.99 To 9999. %



MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142  
 Cross Section -1251. To 9999. %

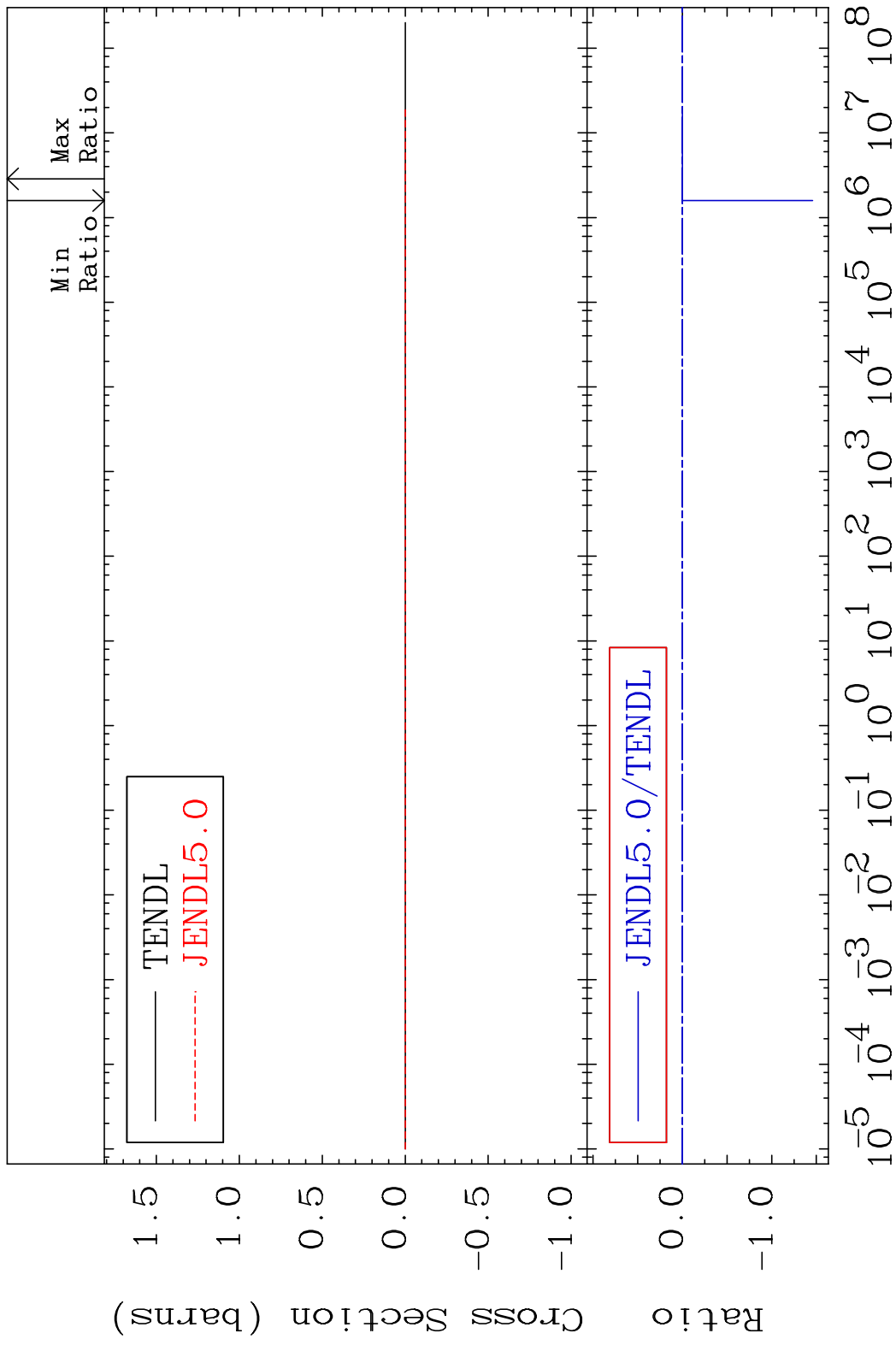


MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142  
 Cross Section -9999. To 33.13 %



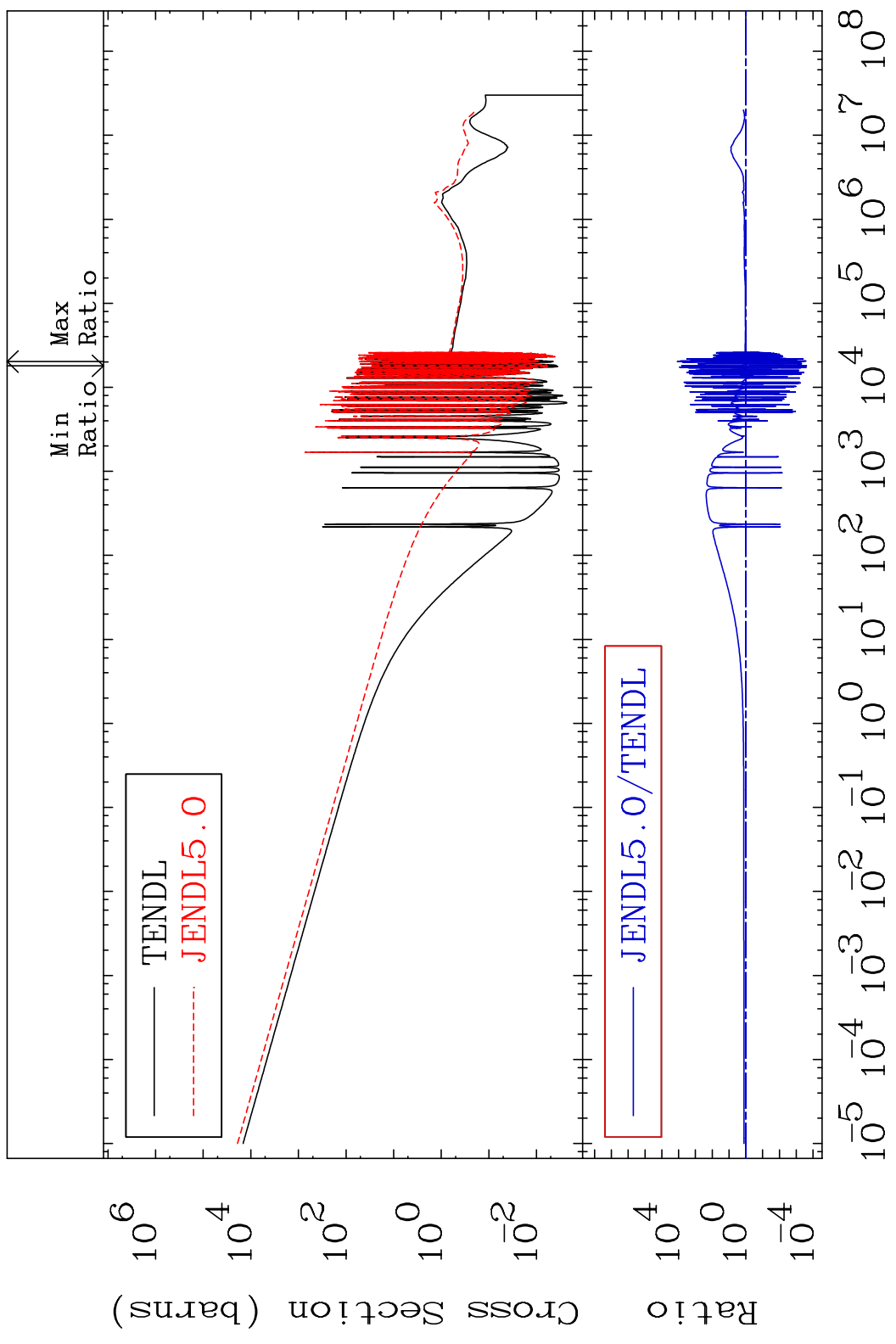
53 Incident Energy (eV) 60-Nd-142

MAT 6025 Kerma fission (mt18 or mt19-20-21-38) <sup>60</sup>Nd-142  
 Cross Section -9999. To 33.13 %



MAT 6025

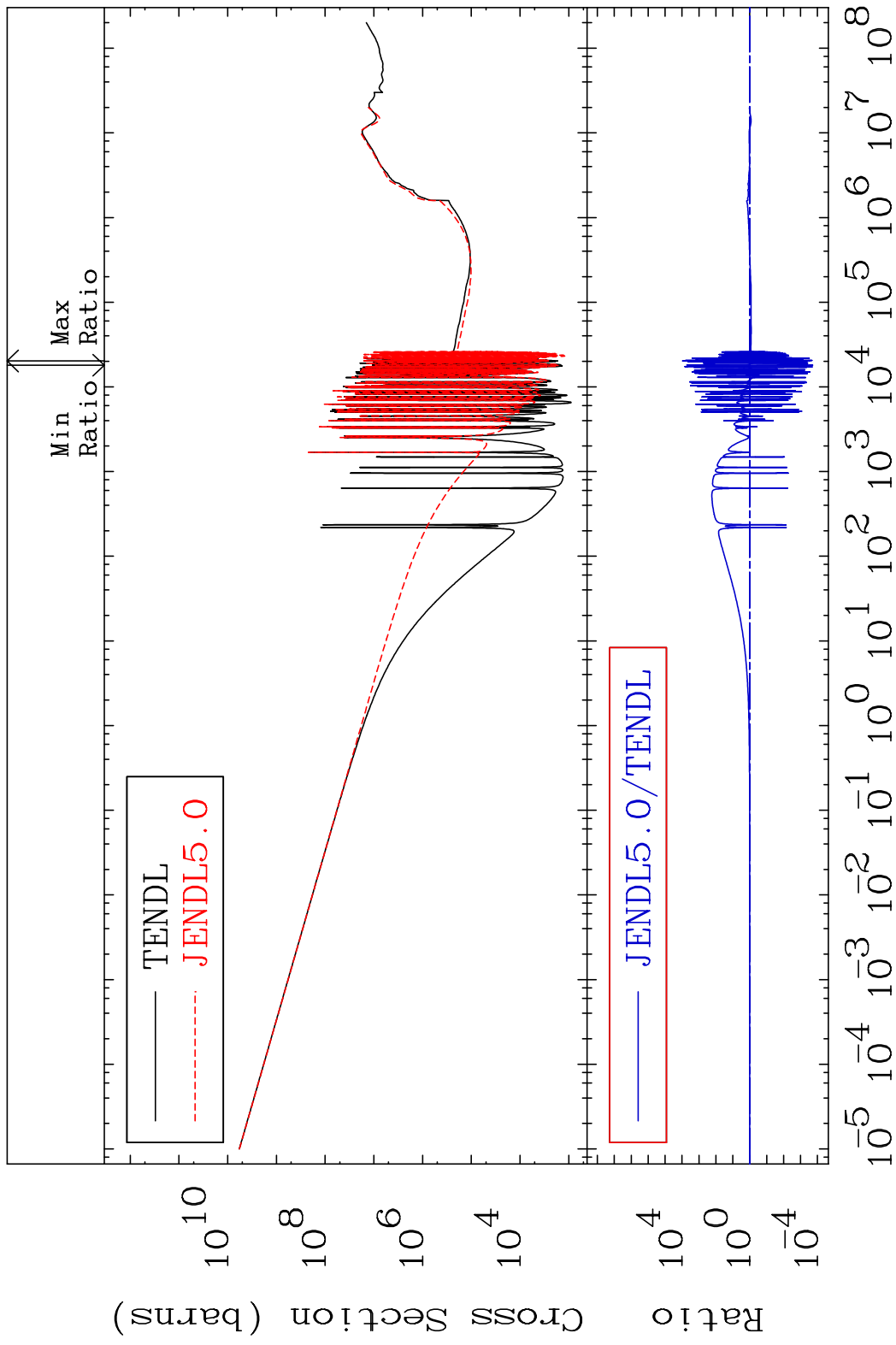
Kerma capture (mt102) 60-Nd-142  
Cross Section -99.98 To 9999. %



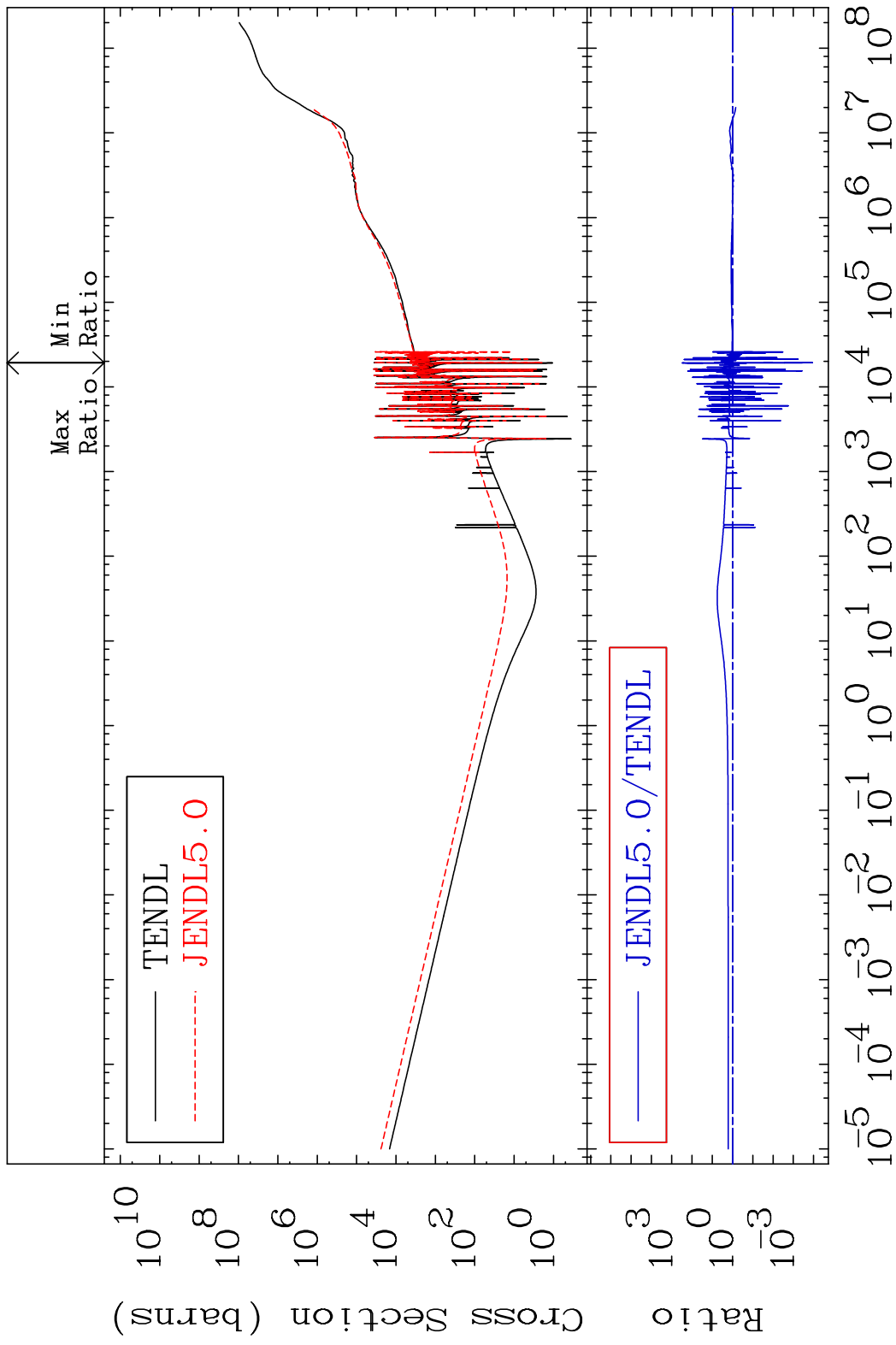
55

Incident Energy (eV) 60-Nd-142

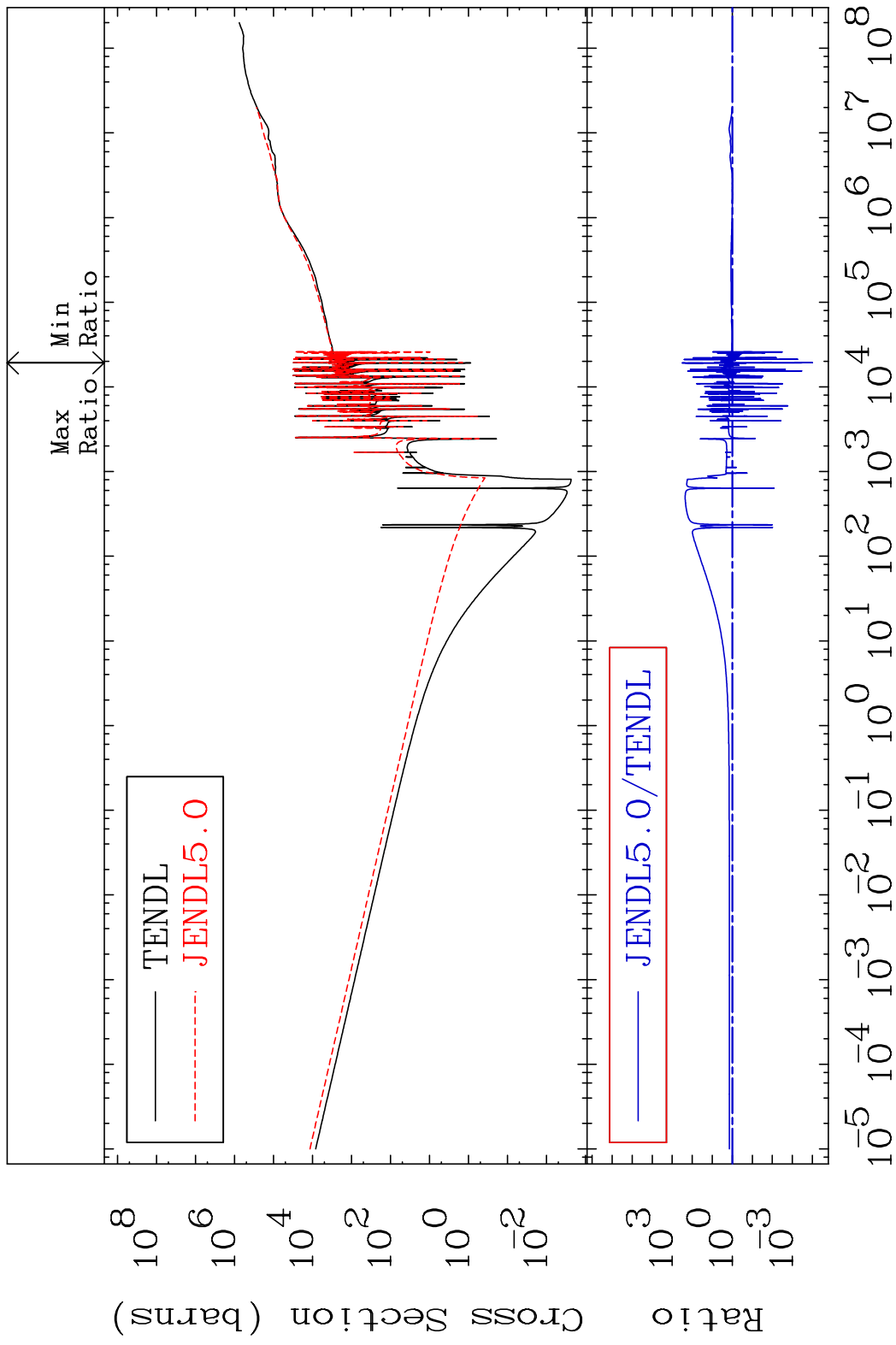
MAT 6025 Total photon (eV-barns) 60-Nd-142  
 Cross Section -99.98 To 9999. %



MAT 6025 Total kinematic kerma (high limit) 60-Nd-142  
 Cross Section -99.99 To 9999. %



MAT 6025      Dpa total (eV-barns)      60-Nd-142  
 Cross Section      -99.99 To 9999. %

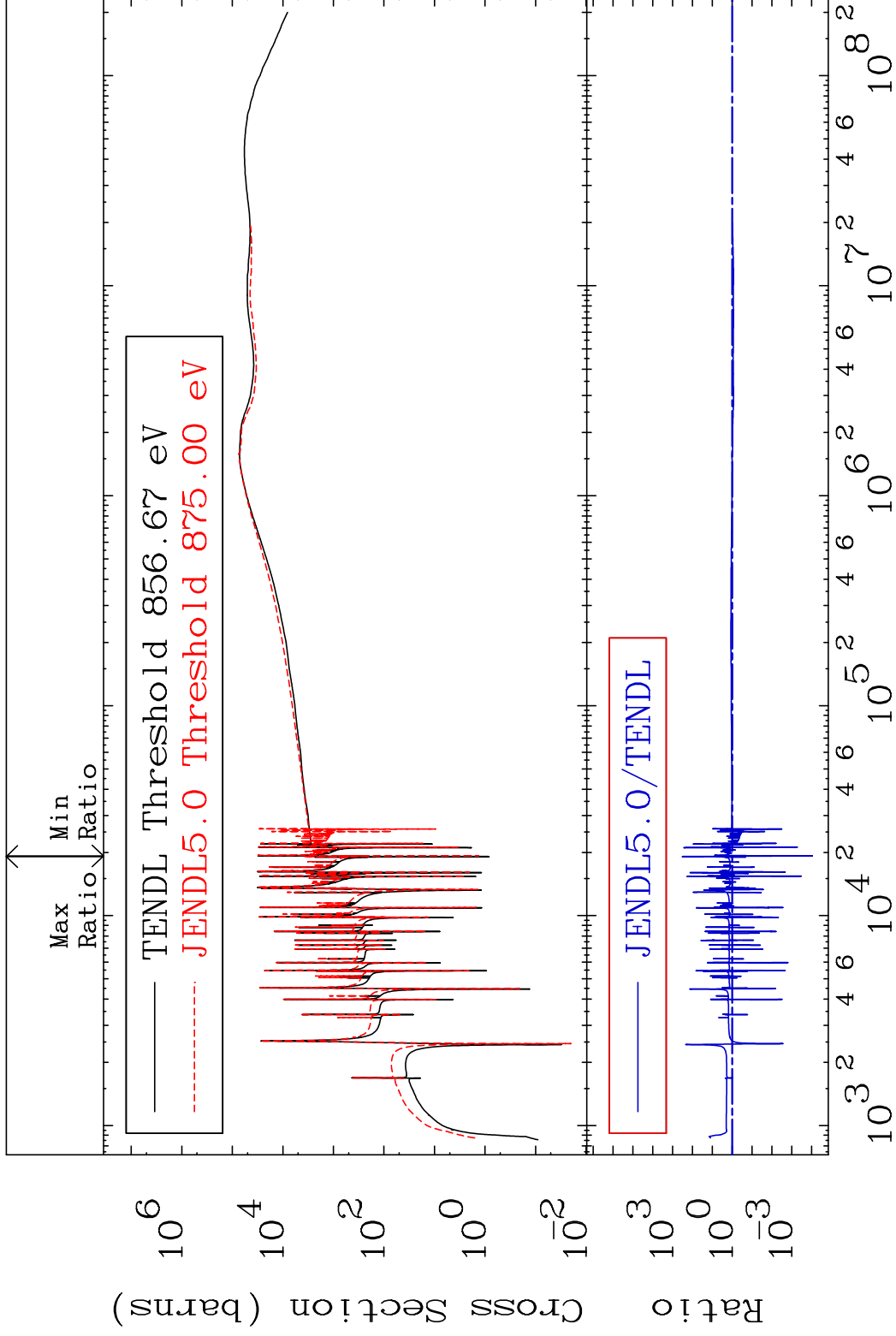


MAT 6025

Dpa elastic (mt2)

60-Nd-142

Cross Section -99.99 To 9999. %

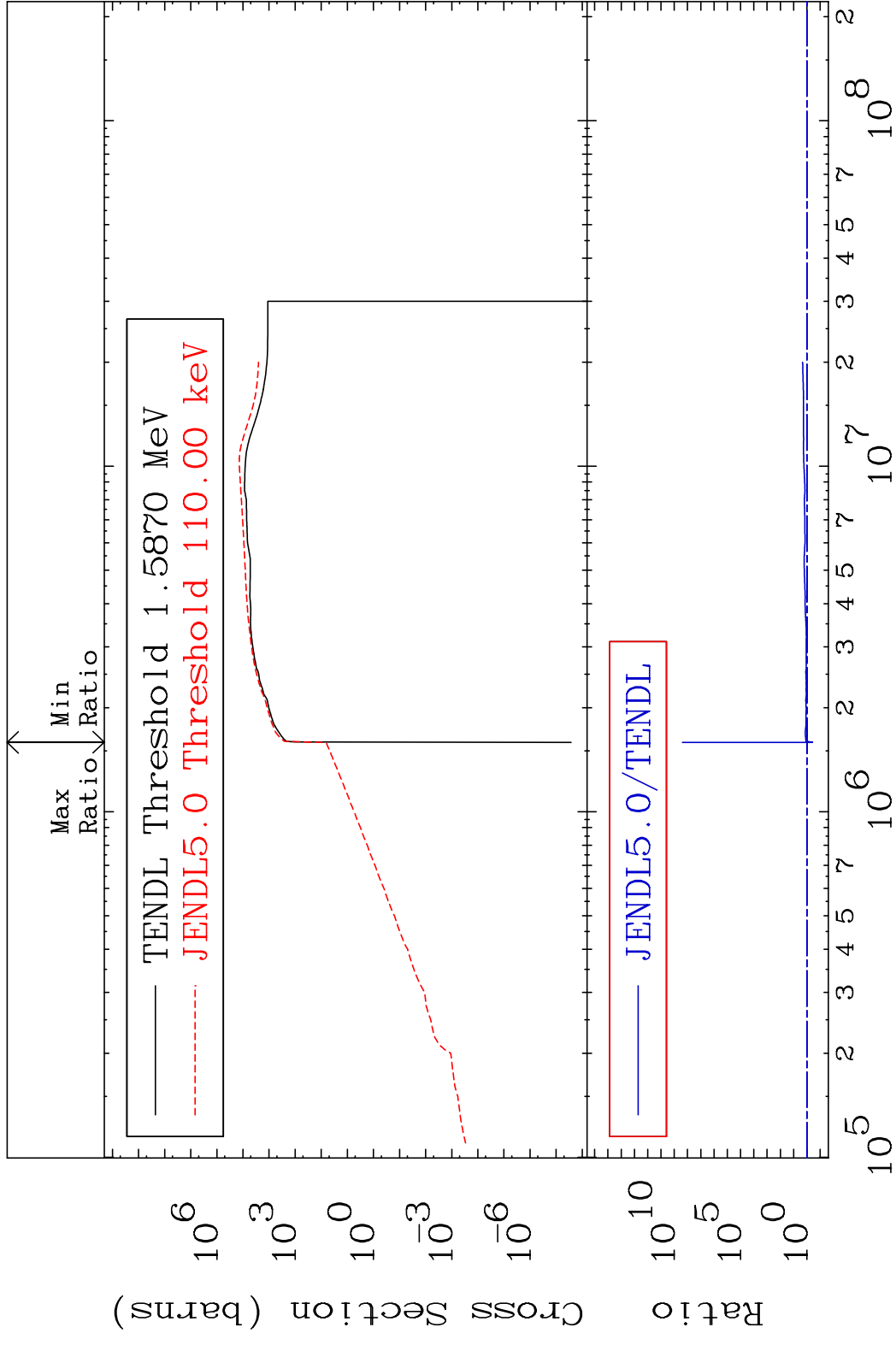


59

Incident Energy (eV)

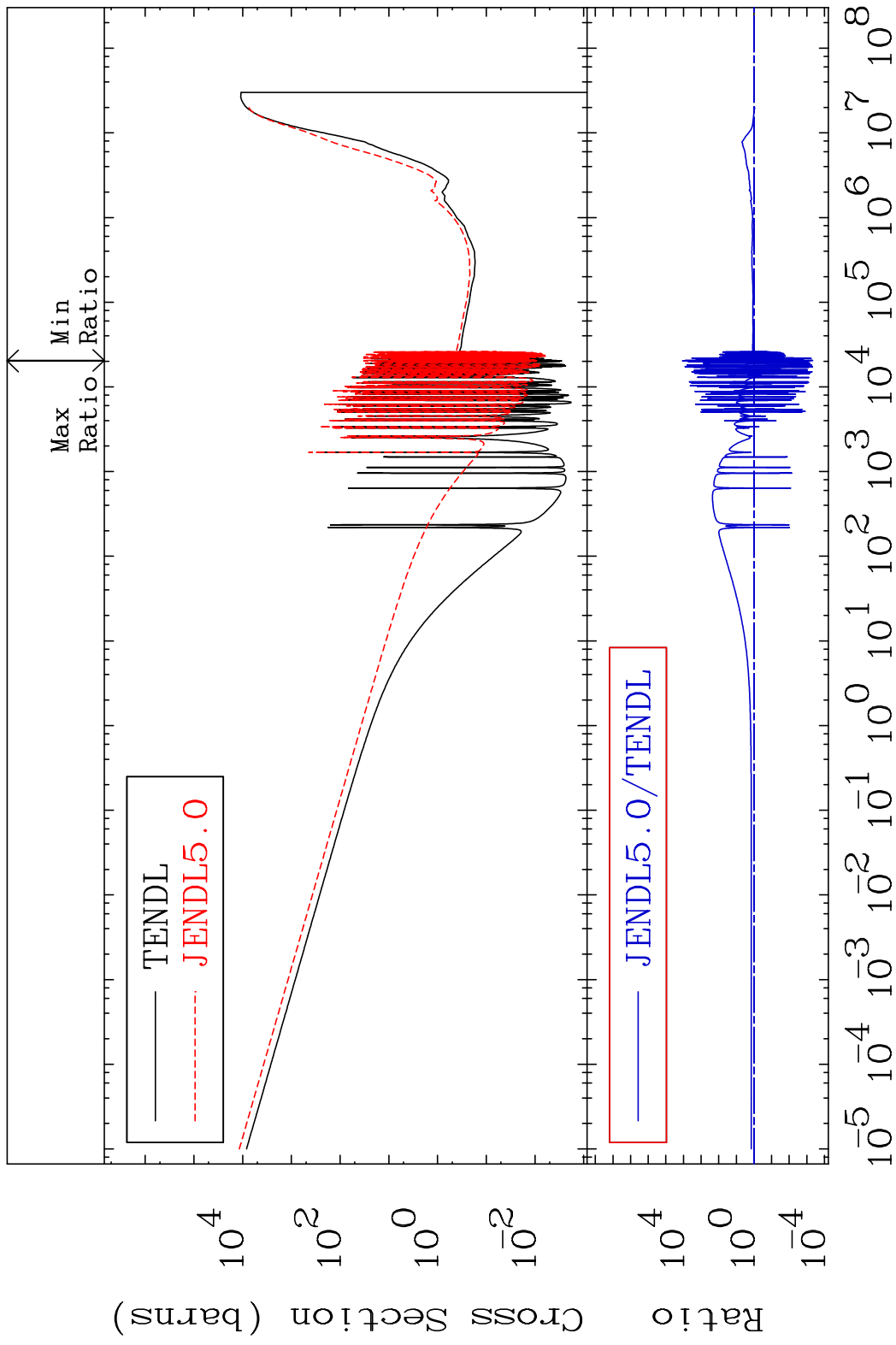
60-Nd-142

MAT 6025 Dpa inelastic (mt51-91) 60-Nd-142  
 Cross Section -62.60 To 9999. %



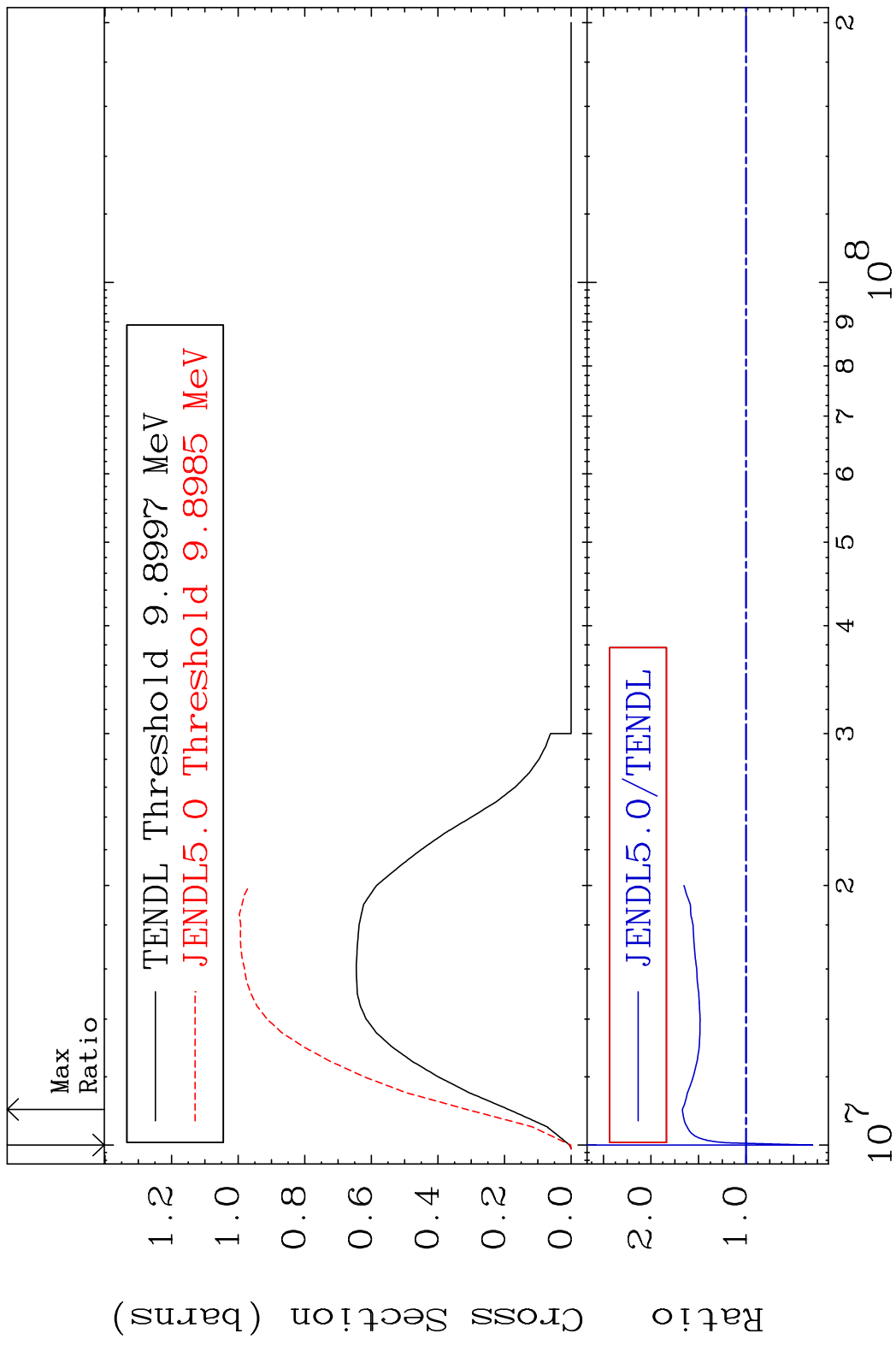
60 Incident Energy (eV) 60-Nd-142

MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142  
 Cross Section -99.95 To 9999. %

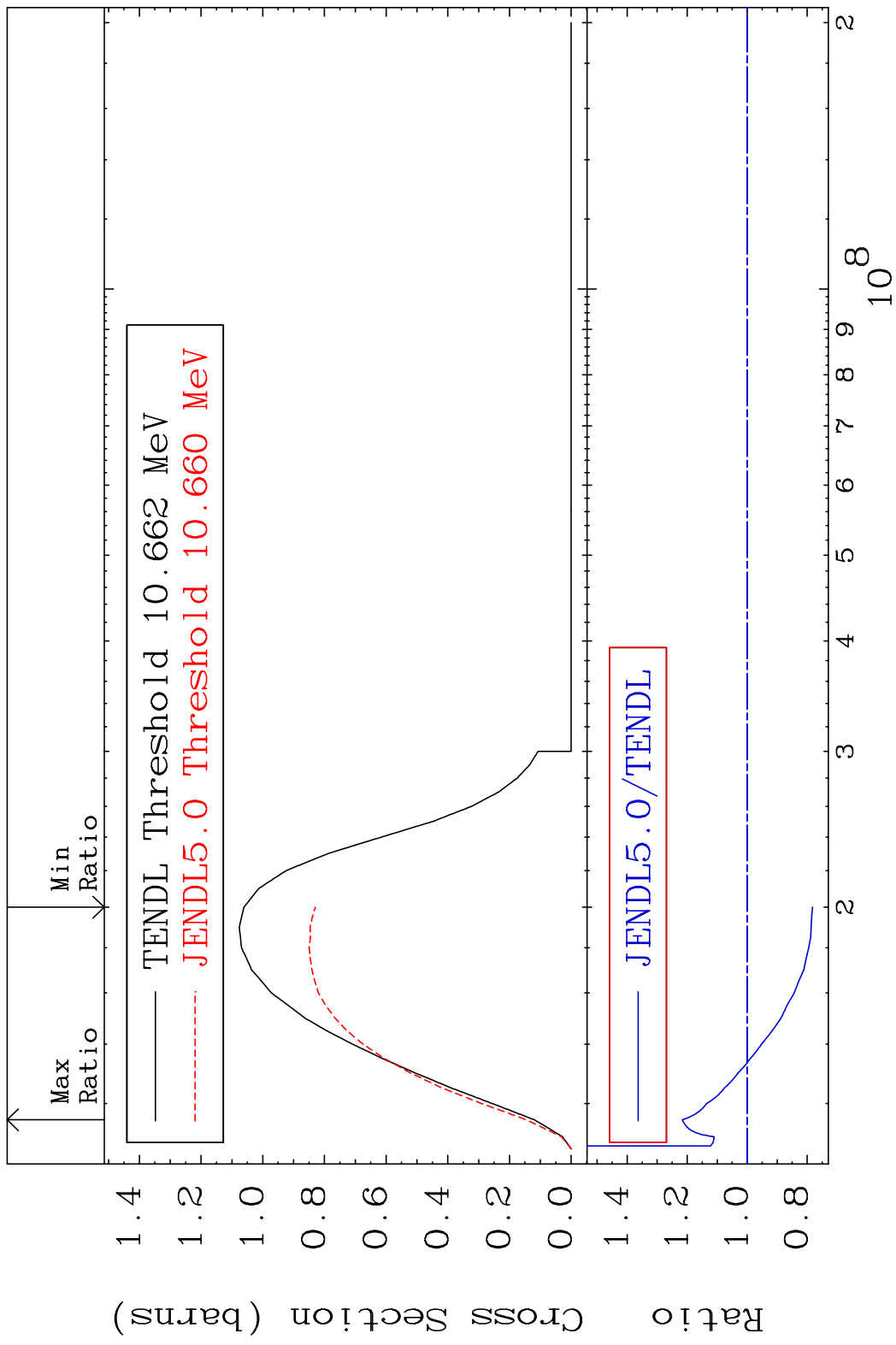


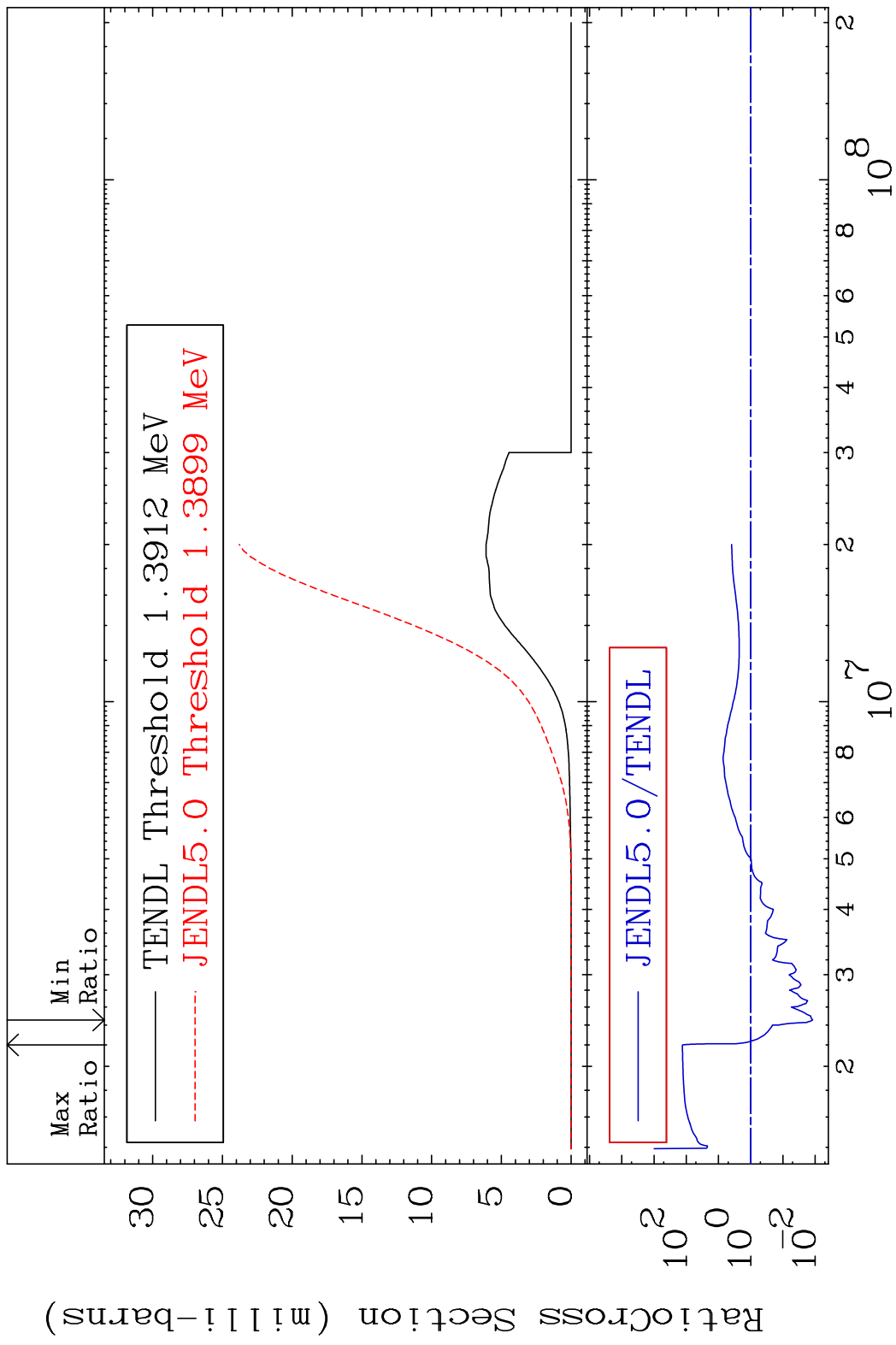
61 Incident Energy (eV) 60-Nd-142

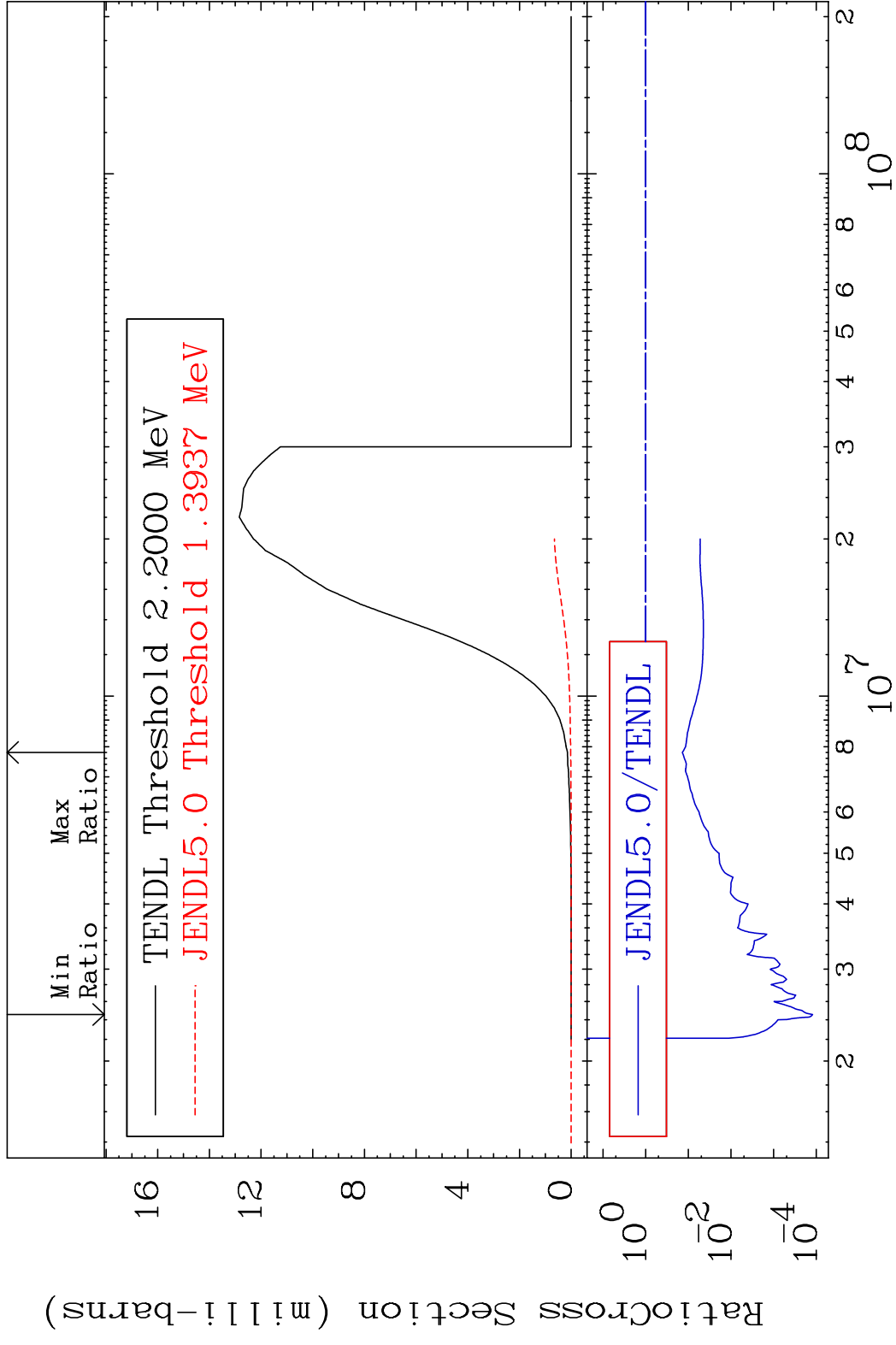
MAT 6025 (n,2n):60-Nd-141g 60-Nd-142  
 Radionuclide Production Cross Section 67.00 %



62 Incident Energy (eV) 60-Nd-142







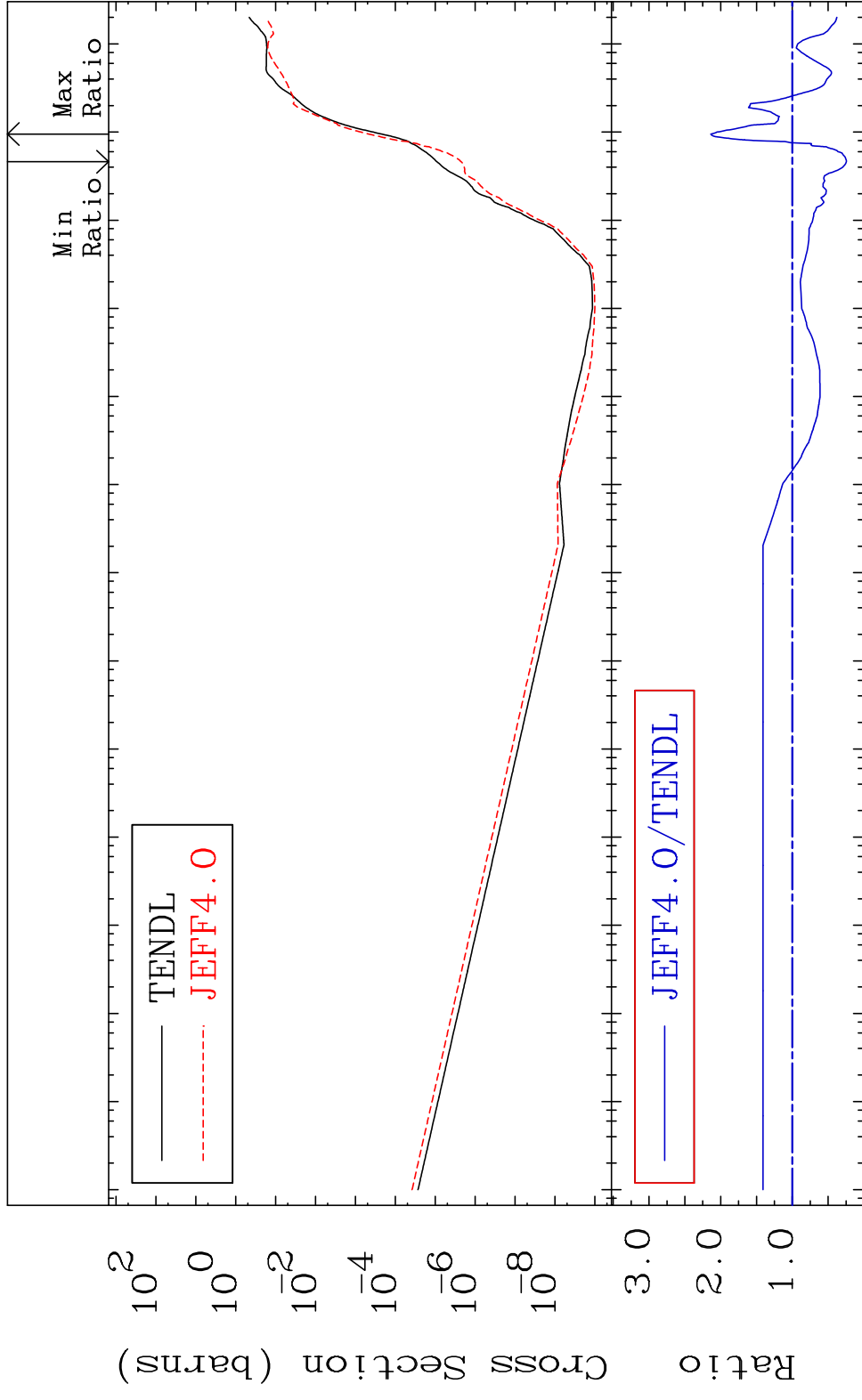
MAT 6025

He-4 Production

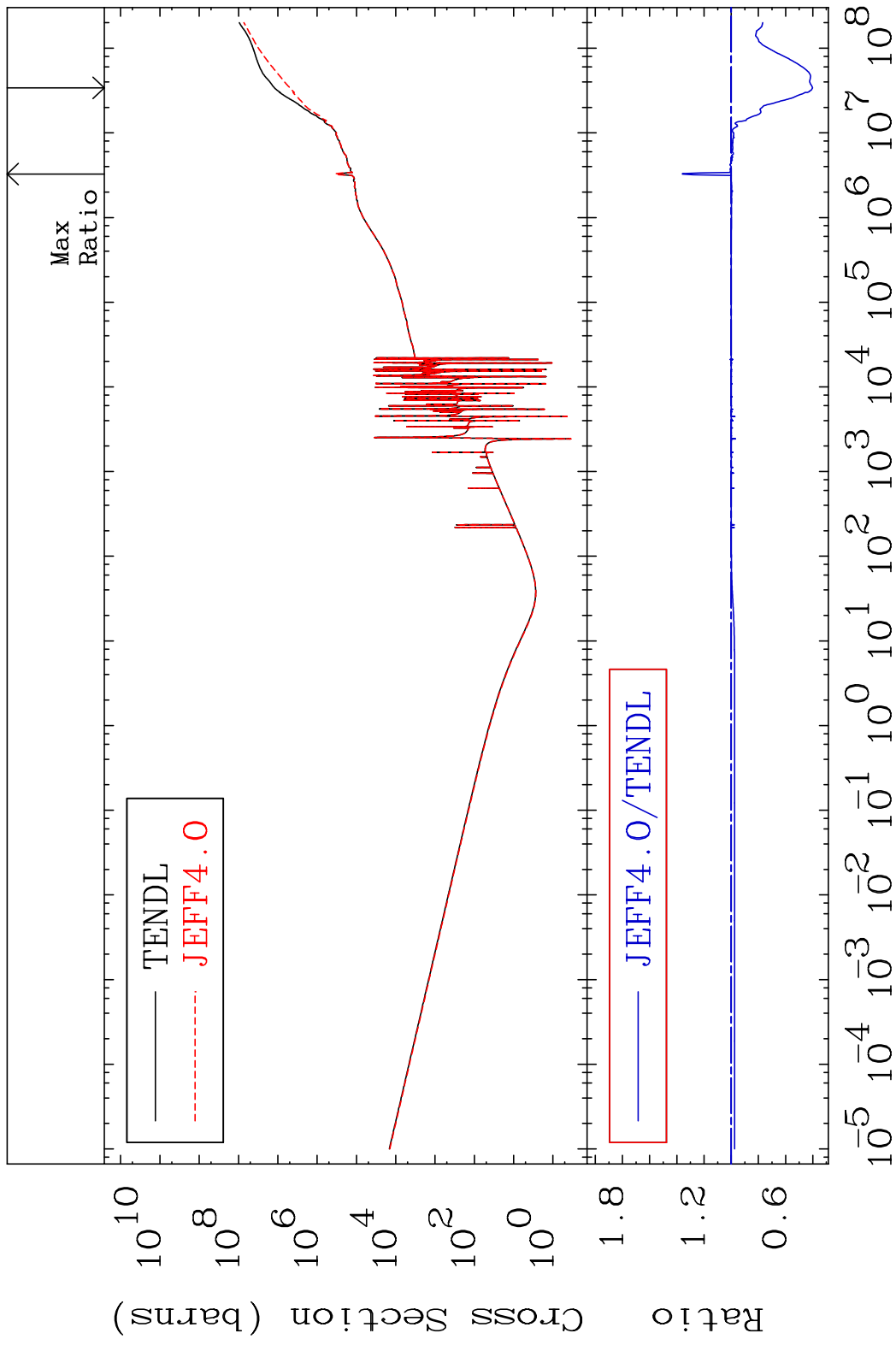
60-Nd-142

Cross Section

-75.42 To 113.9 %



MAT 6025 Kerma total (eV-barns) 60-Nd-142  
 Cross Section -59.83 To 35.95 %



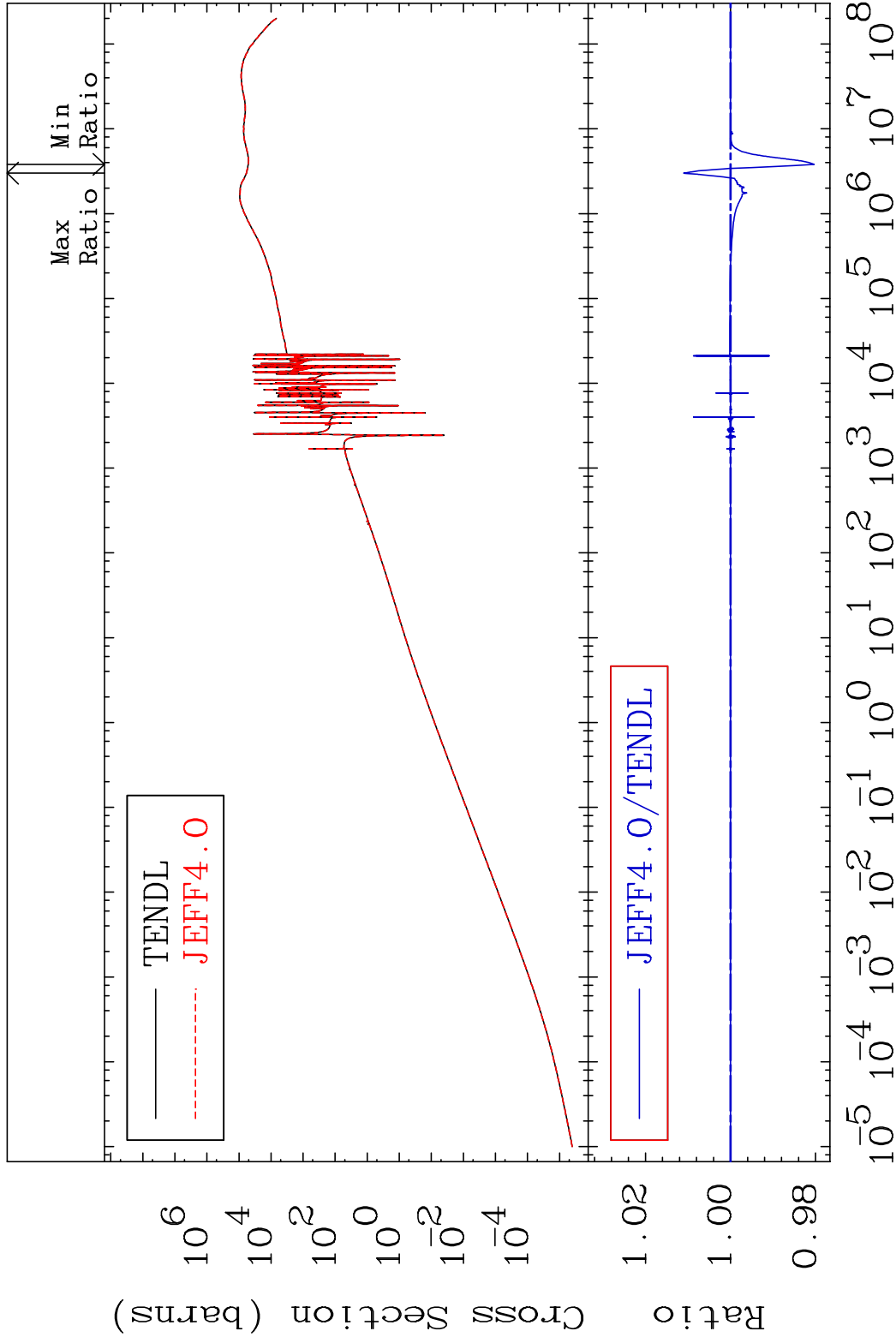
67 Incident Energy (eV) 60-Nd-142

MAT 6025

Kerma elastic

60-Nd-142

Cross Section -1.964 To 1.103 %

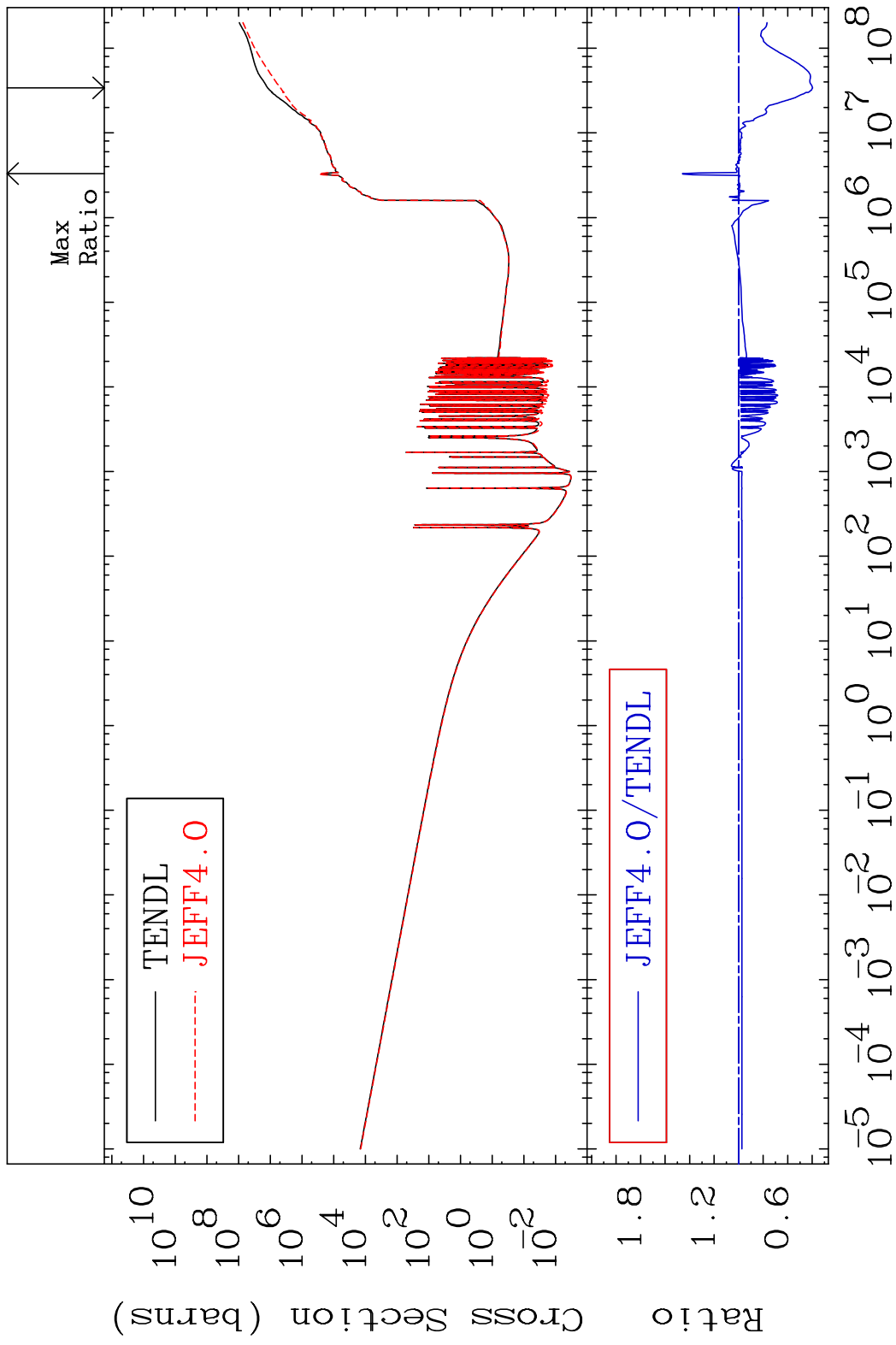


68

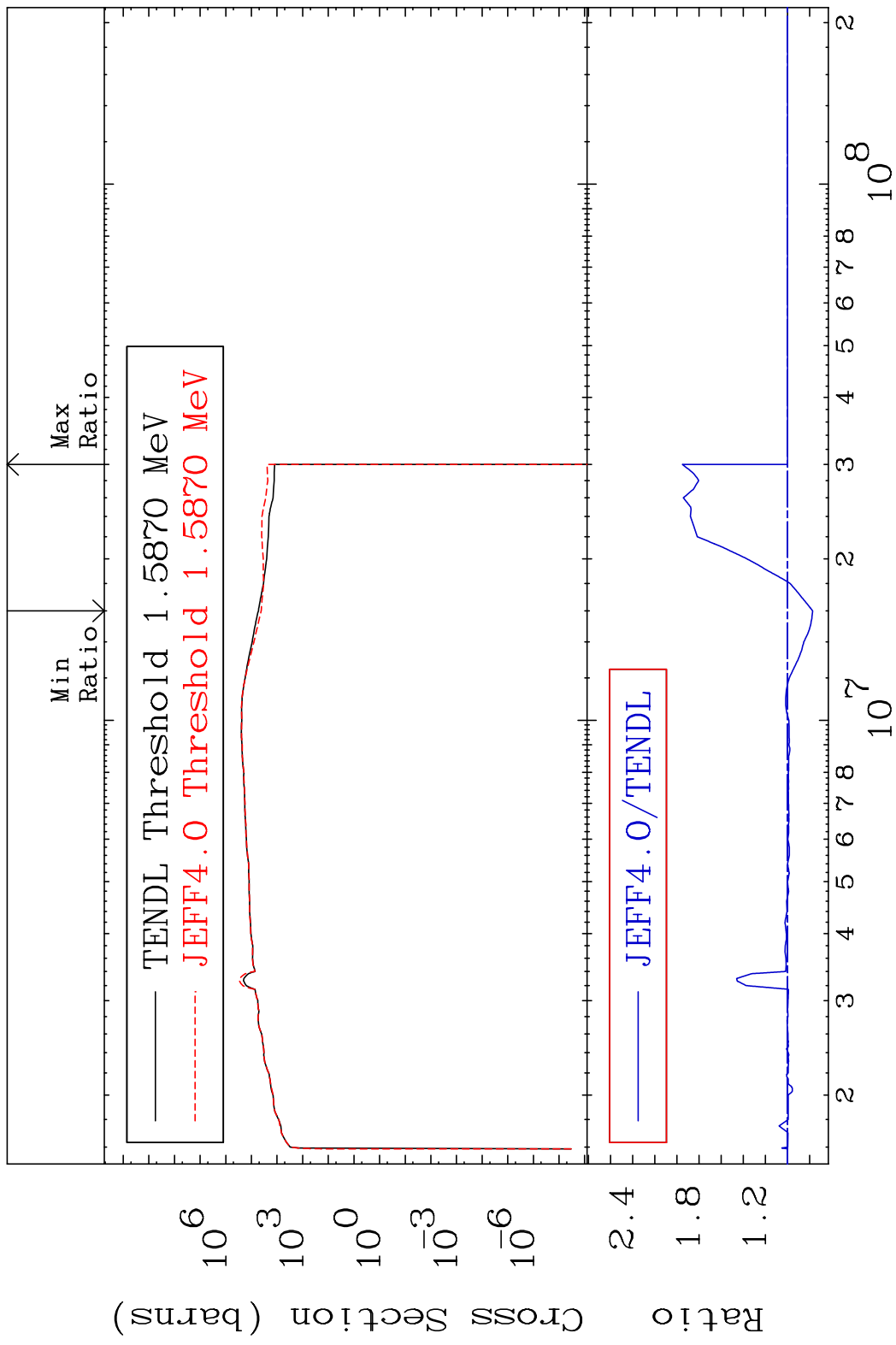
Incident Energy (eV)

60-Nd-142

MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142  
 Cross Section -60.24 To 45.95 %

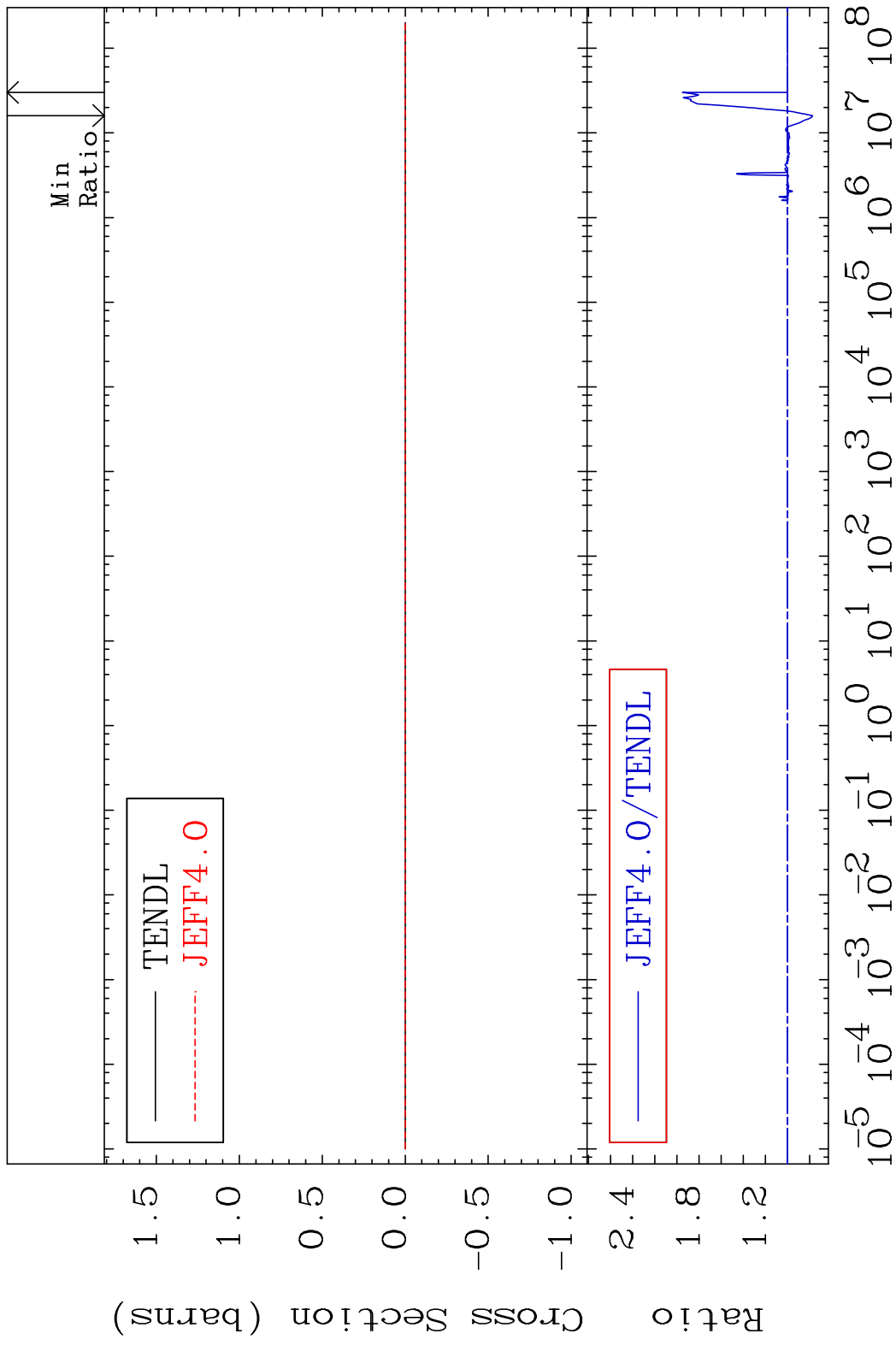


MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142  
 Cross Section -22.54 To 95.07 %



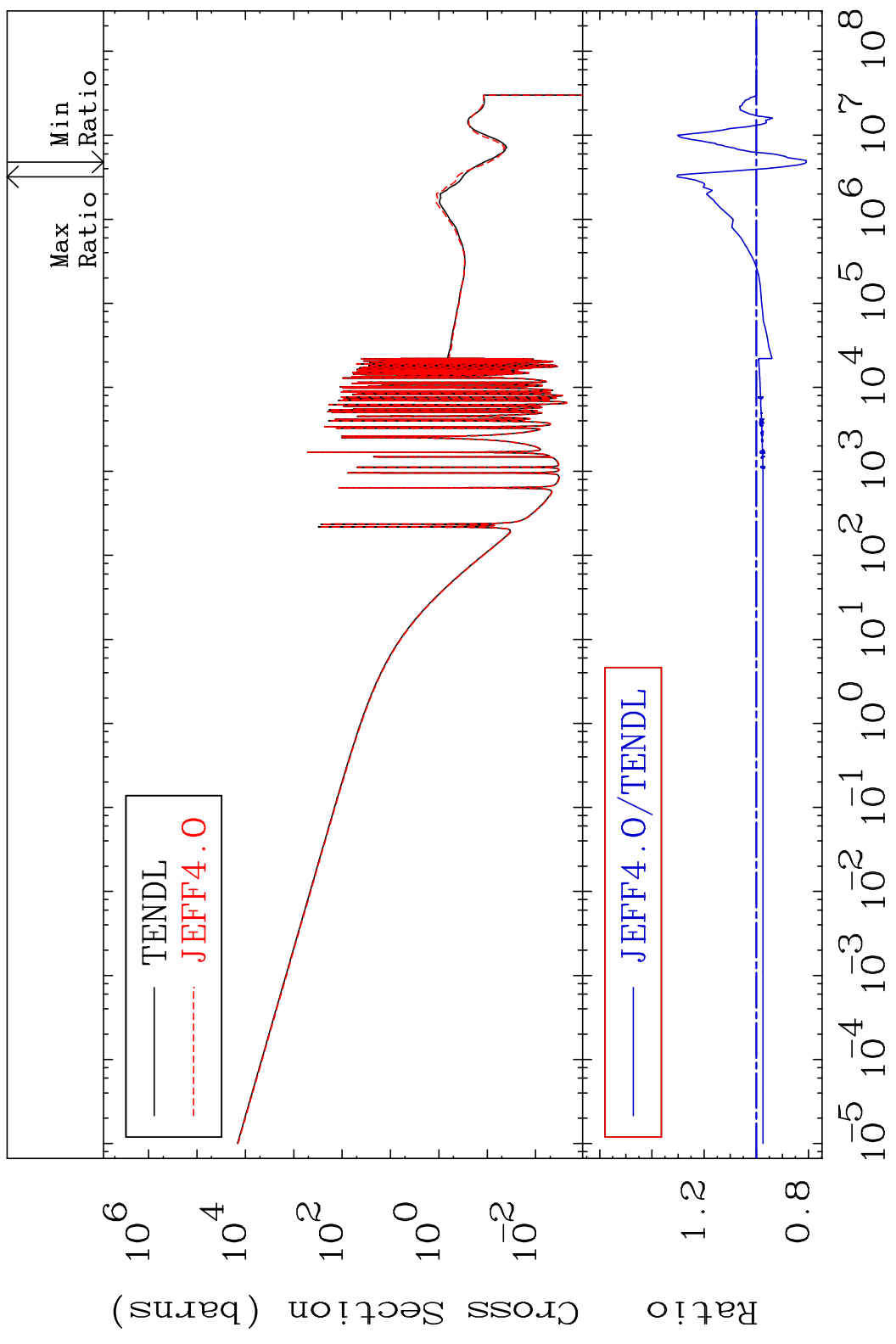
70 Incident Energy (eV) 60-Nd-142

MAT 6025 Kerma fission (mt18 or mt19-20-21-38)  $^{60}\text{Nd-142}$   
 Cross Section -22.54 To 95.07 %



MAT 6025

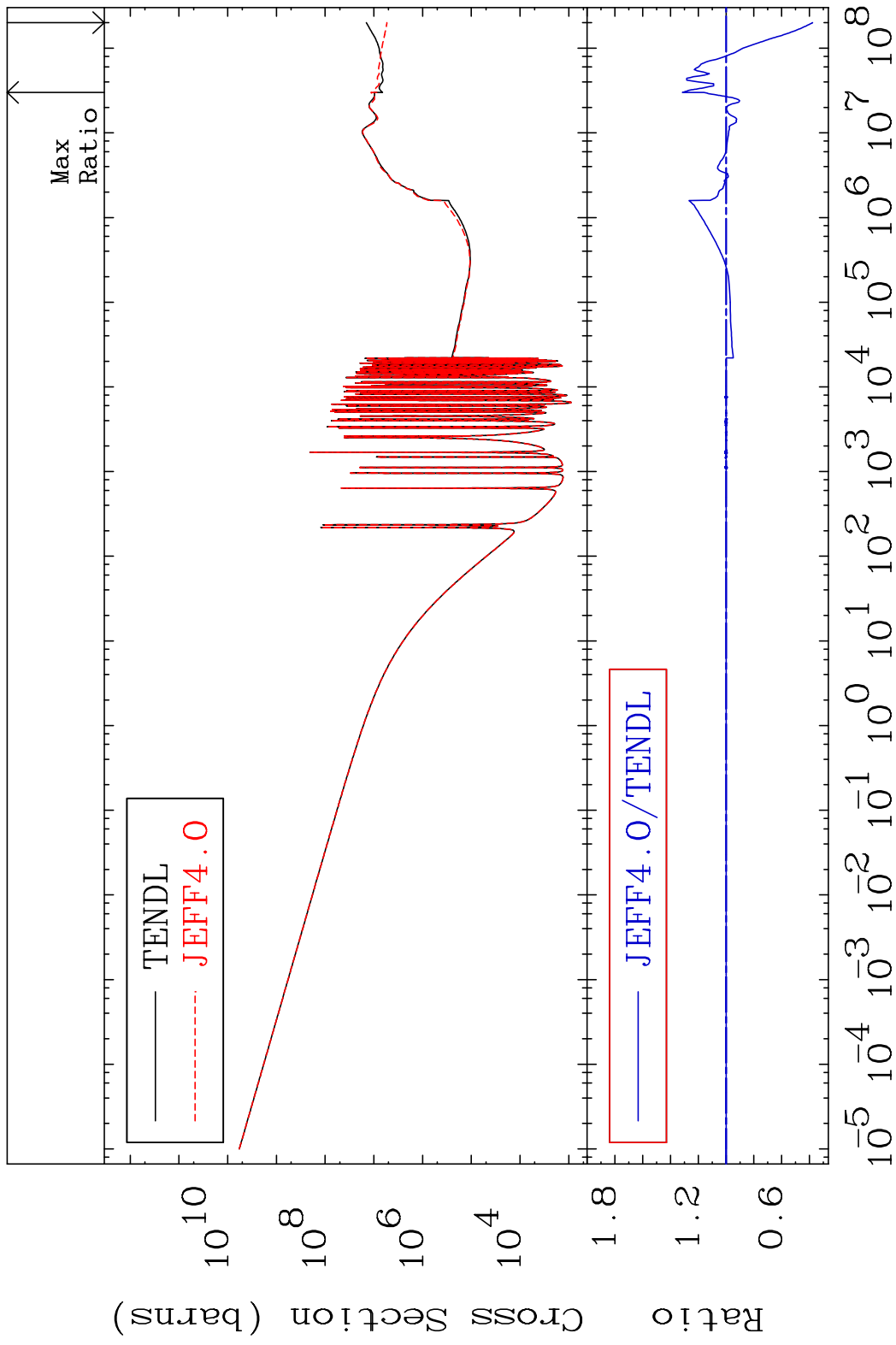
Kerma capture (mt102) 60-Nd-142  
Cross Section -19.19 To 30.33 %



72

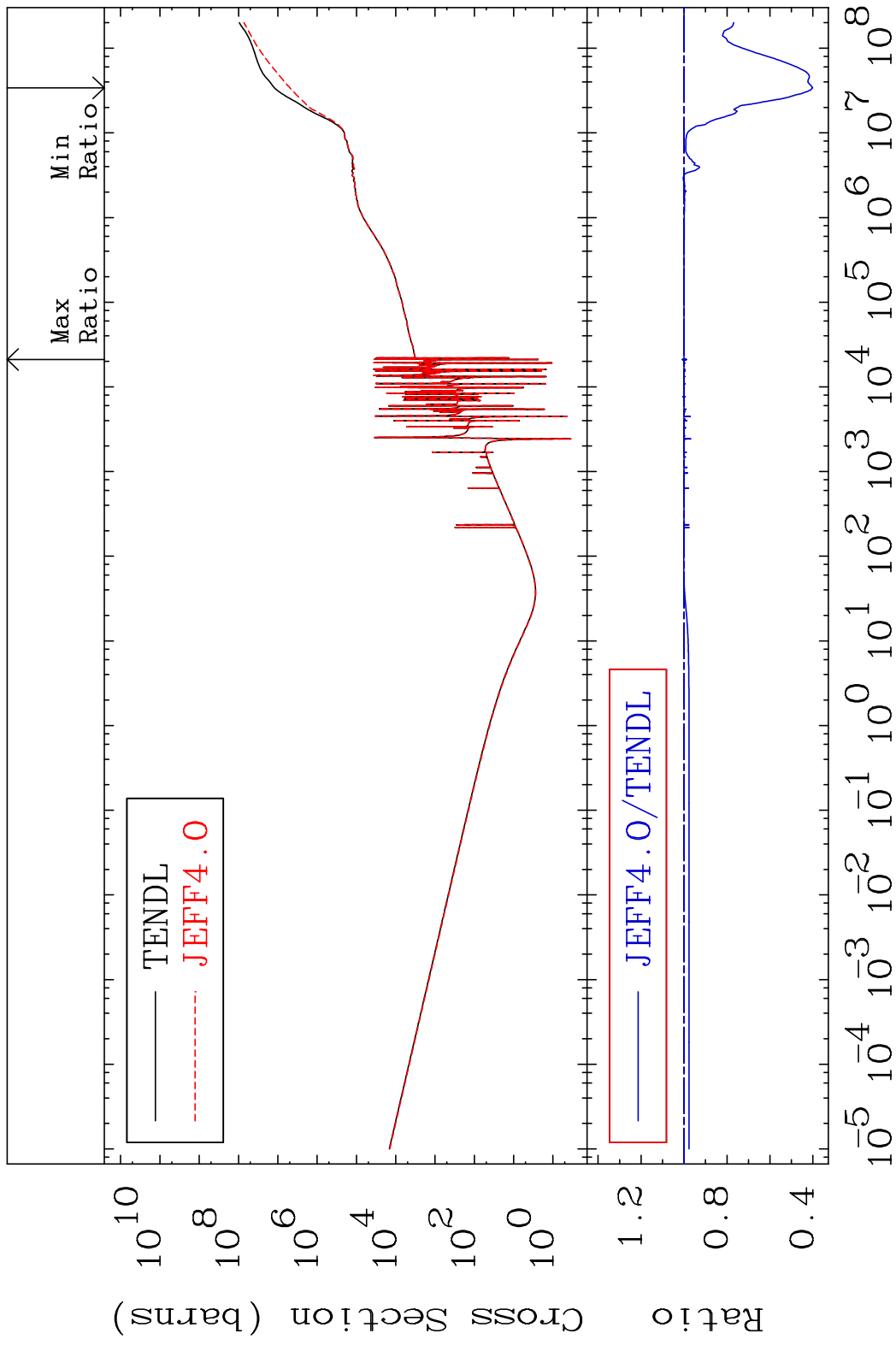
Incident Energy (eV) 60-Nd-142

MAT 6025 Total photon (eV-barns) 60-Nd-142  
Cross Section -62.24 To 31.49 %



73 Incident Energy (eV) 60-Nd-142

MAT 6025 Total kinematic kerma (high limit) 60-Nd-142  
 Cross Section -59.83 To 0.774 %

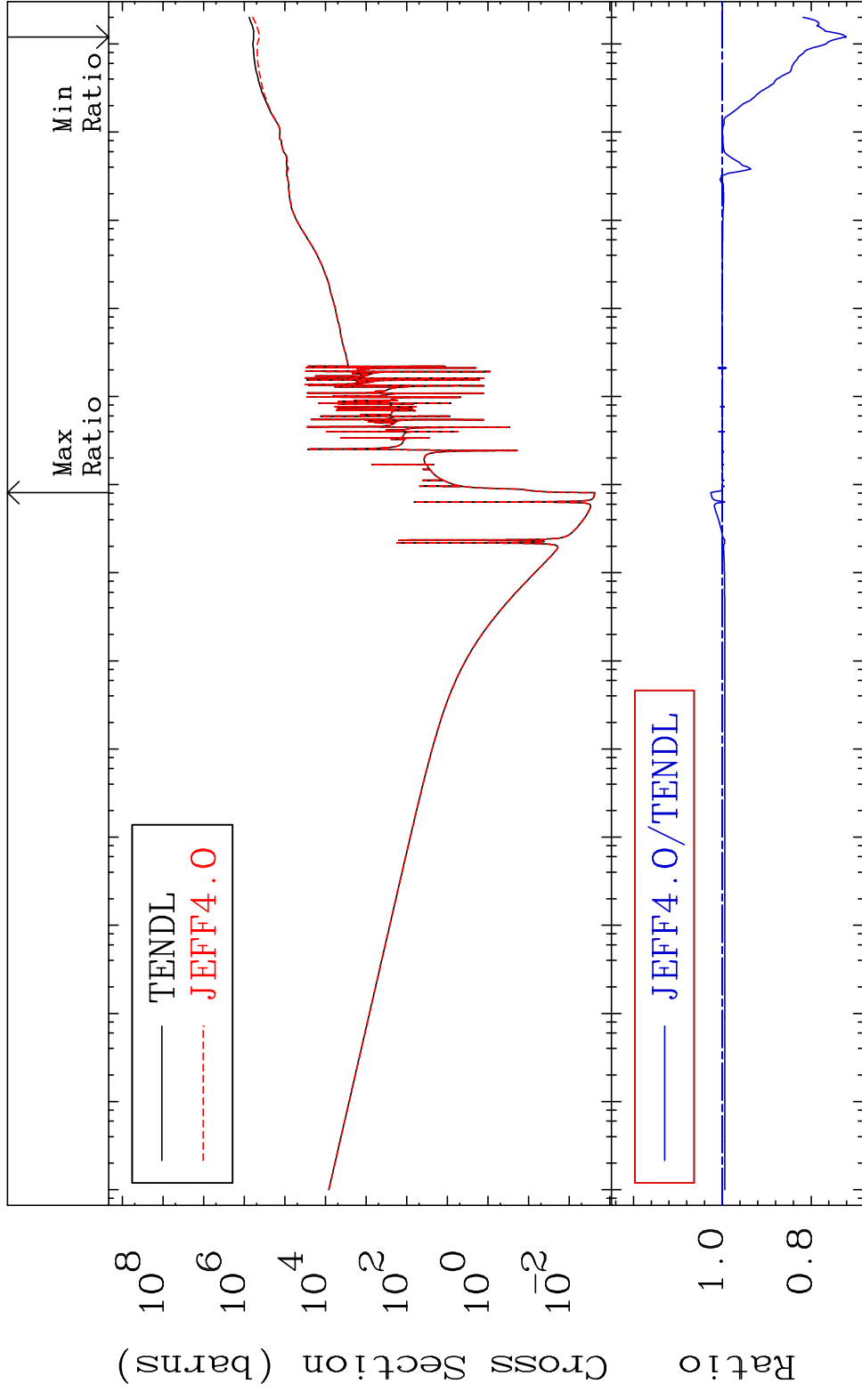


MAT 6025

Dpa total (eV-barns)

60-Nd-142

Cross Section -27.93 To 2.612 %



75

Incident Energy (eV)

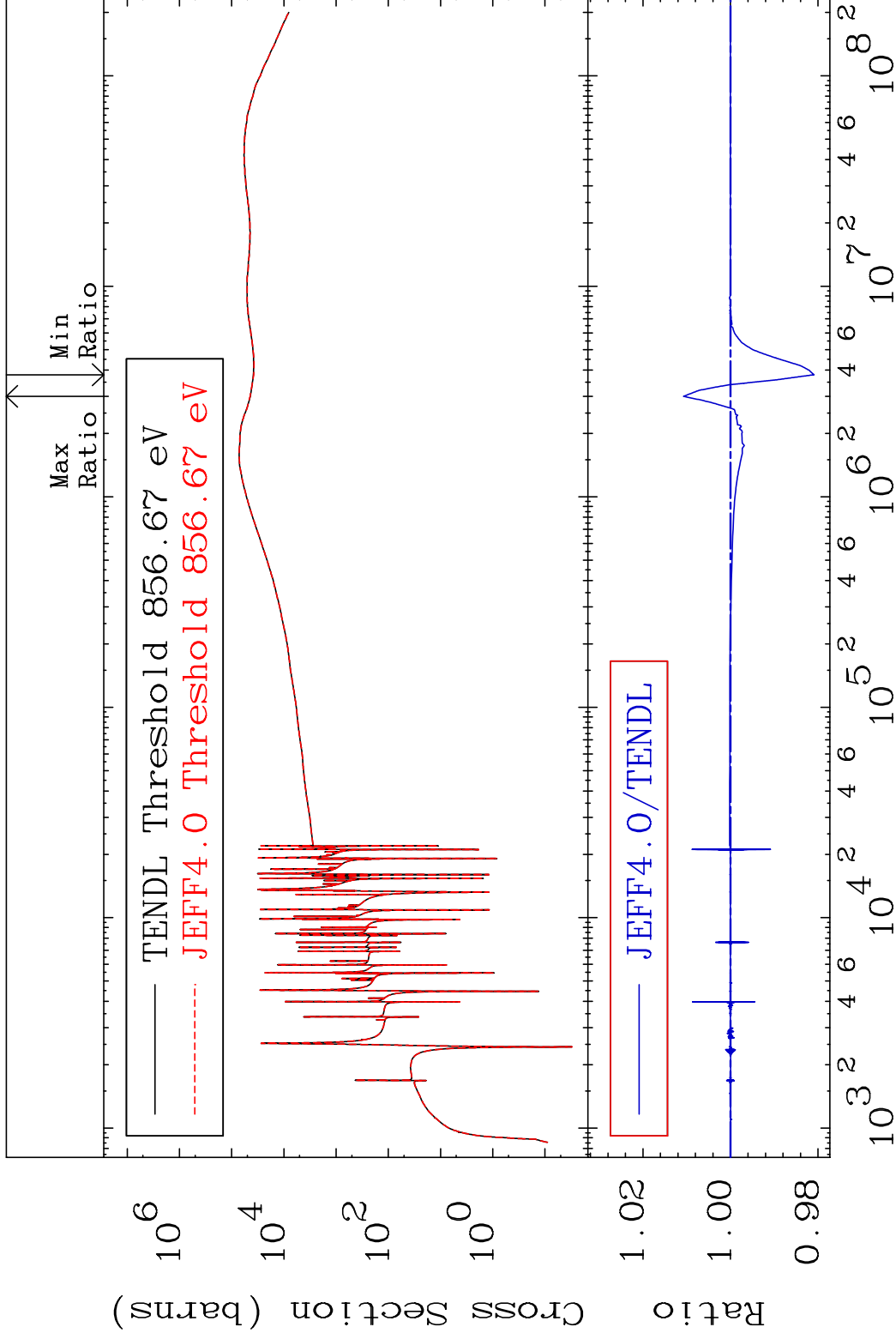
60-Nd-142

MAT 6025

Dpa elastic (mt2)

60-Nd-142

Cross Section -1.909 To 1.075 %

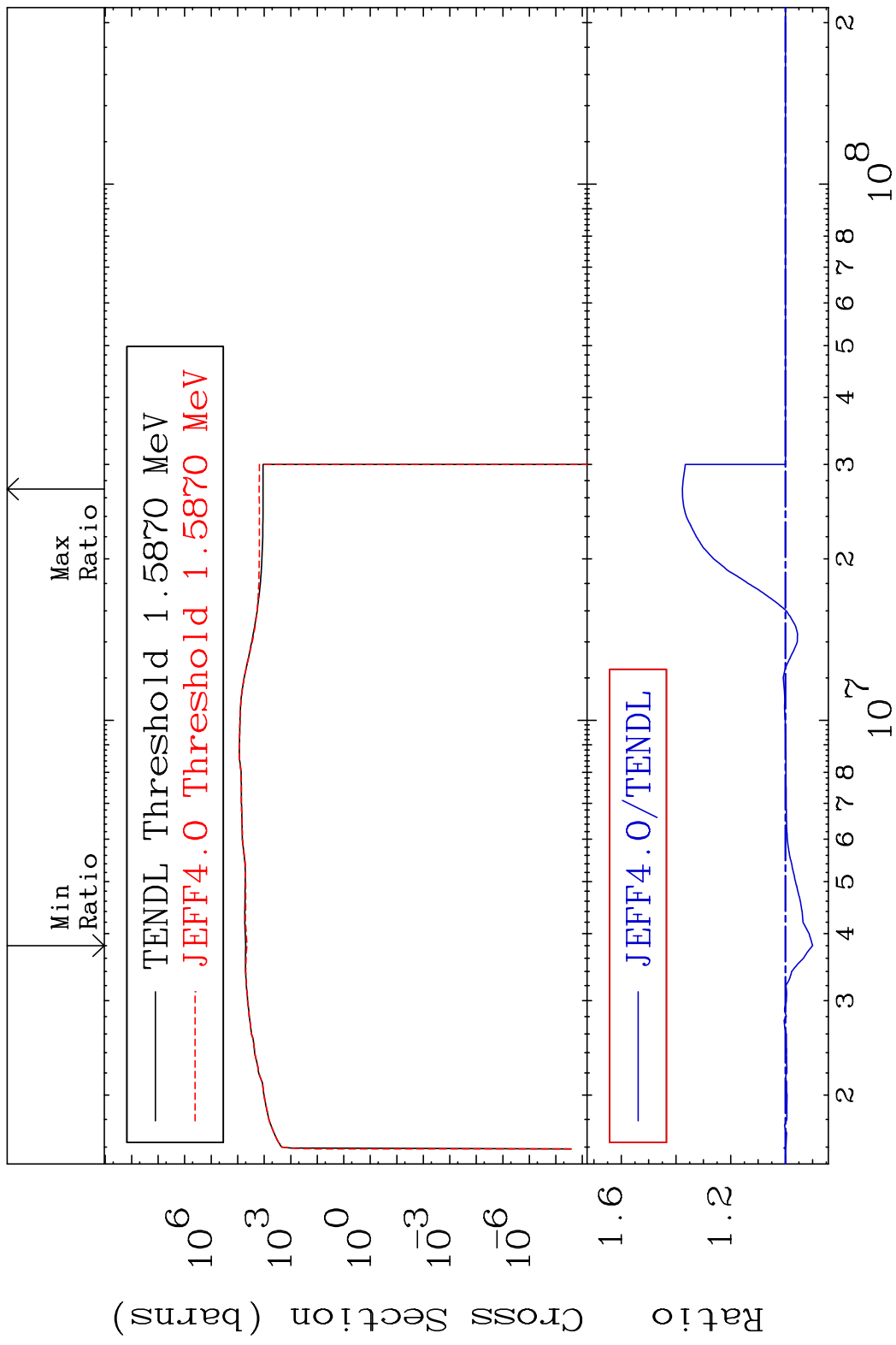


76

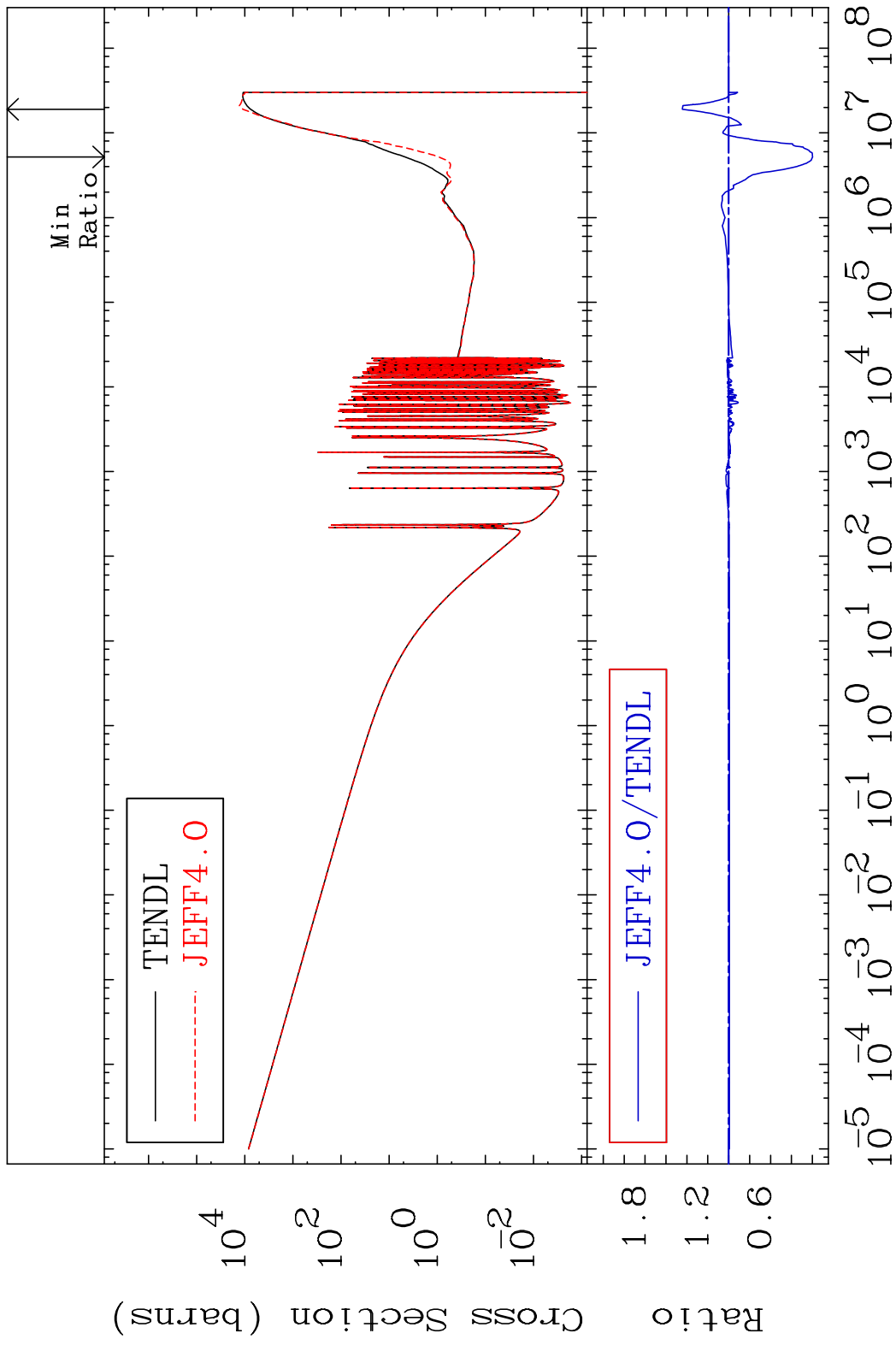
Incident Energy (eV)

60-Nd-142

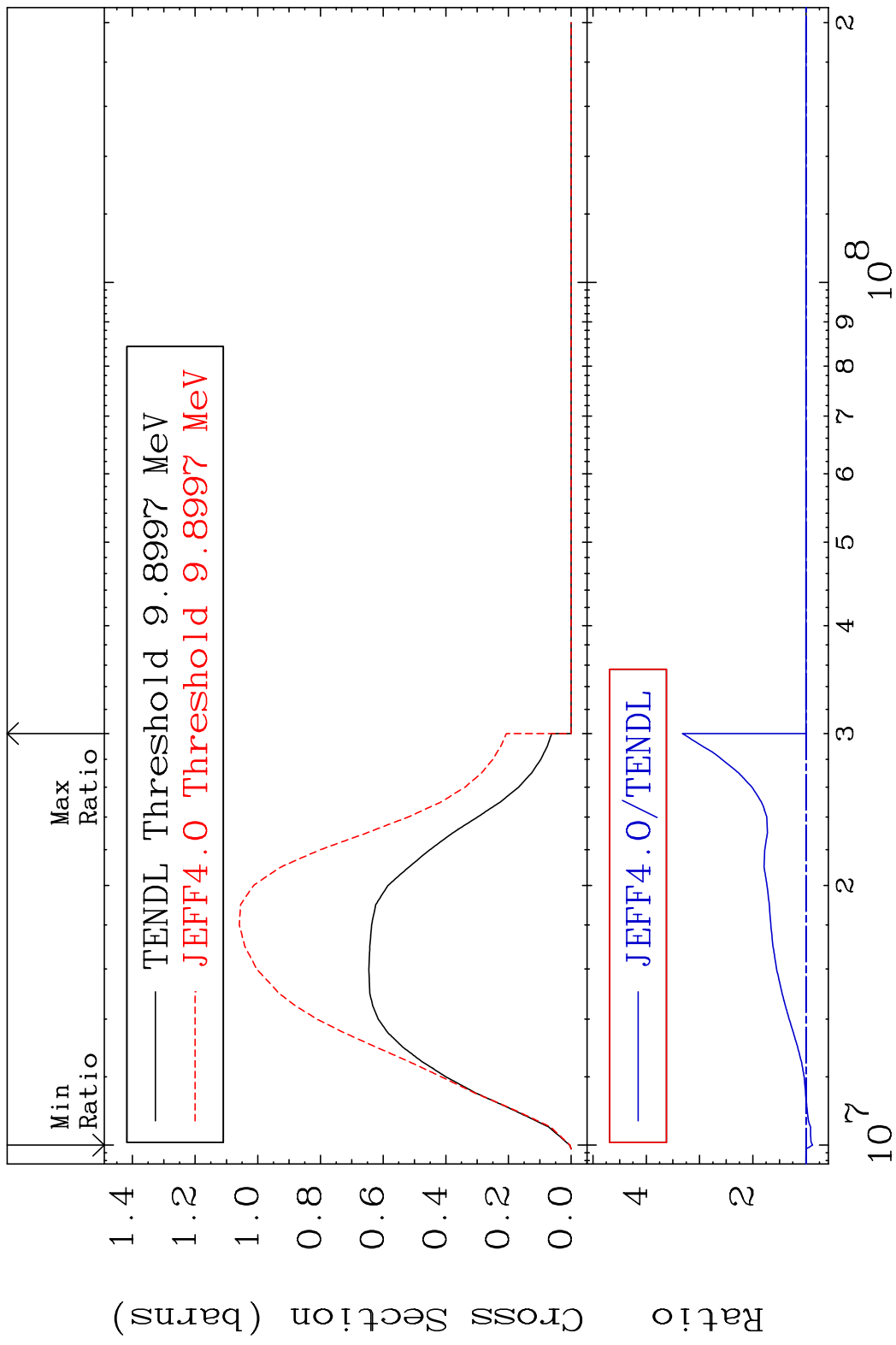
MAT 6025 Dpa inelastic (mt51-91) 60-Nd-142  
 Cross Section -9.949 To 37.68 %



MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142  
 Cross Section -80.17 To 44.32 %

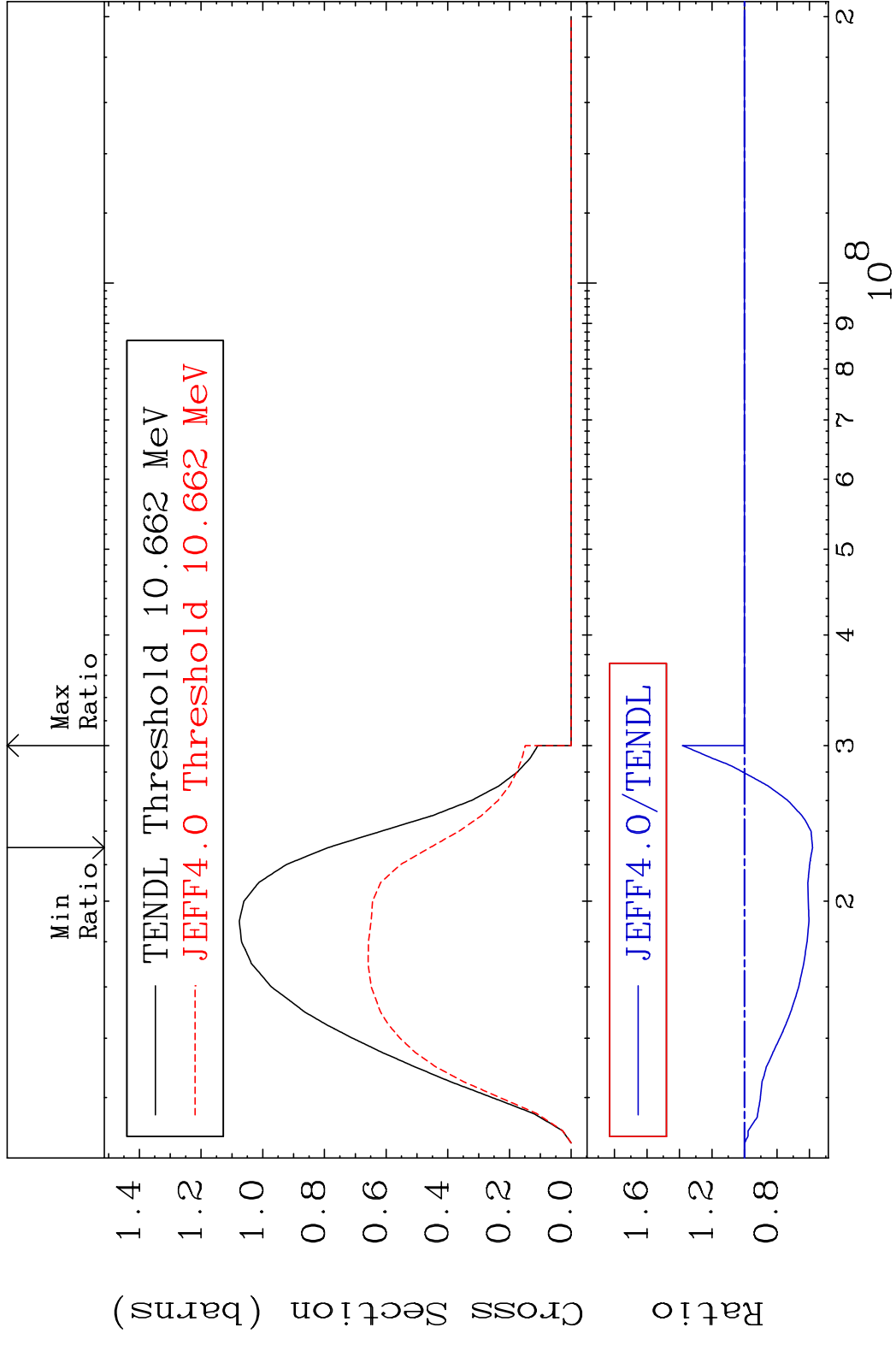


MAT 6025 (n,2n):60-Nd-141g 60-Nd-142  
 Radionuclide Production Cross Section 1.23233 %

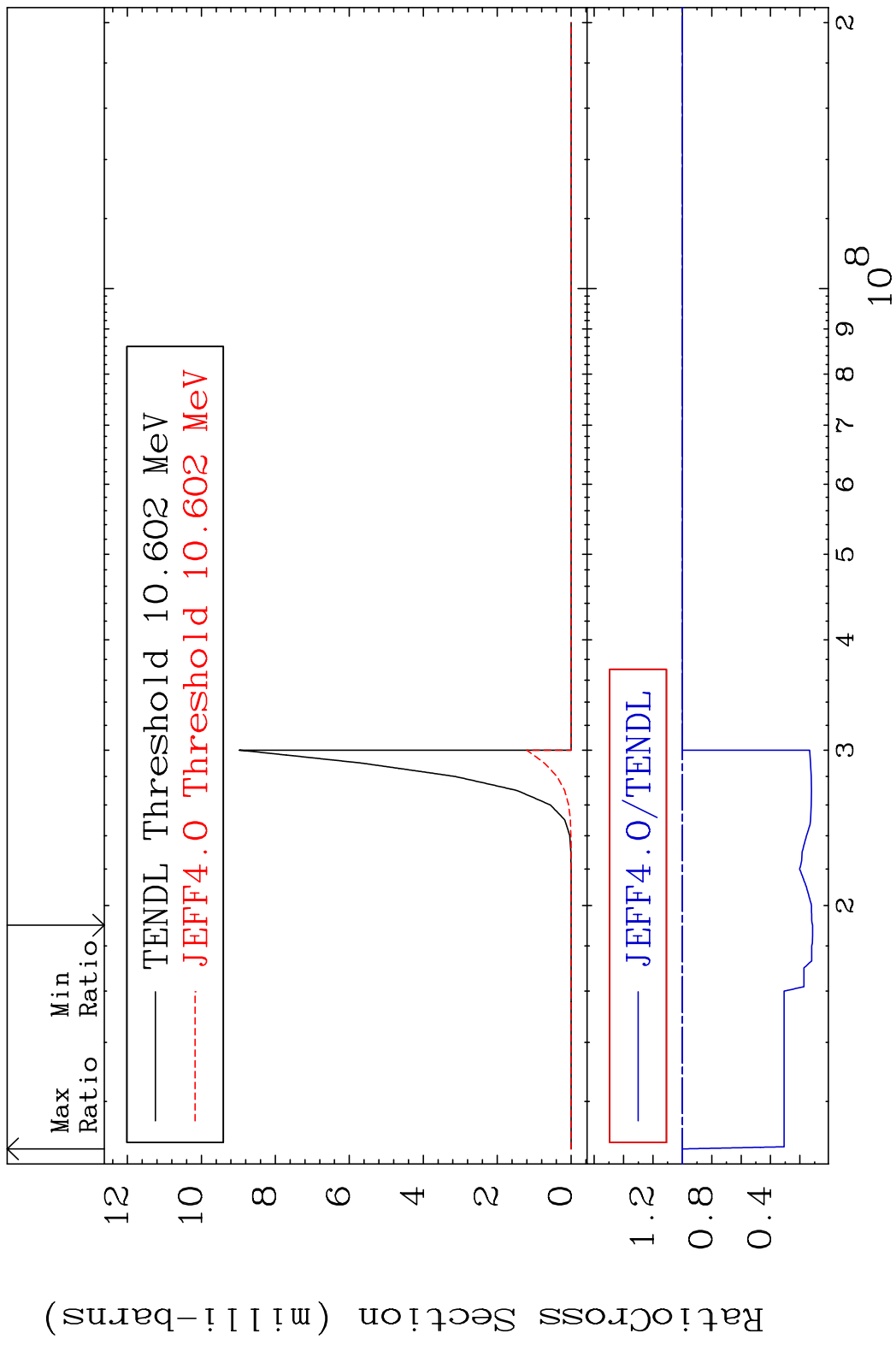


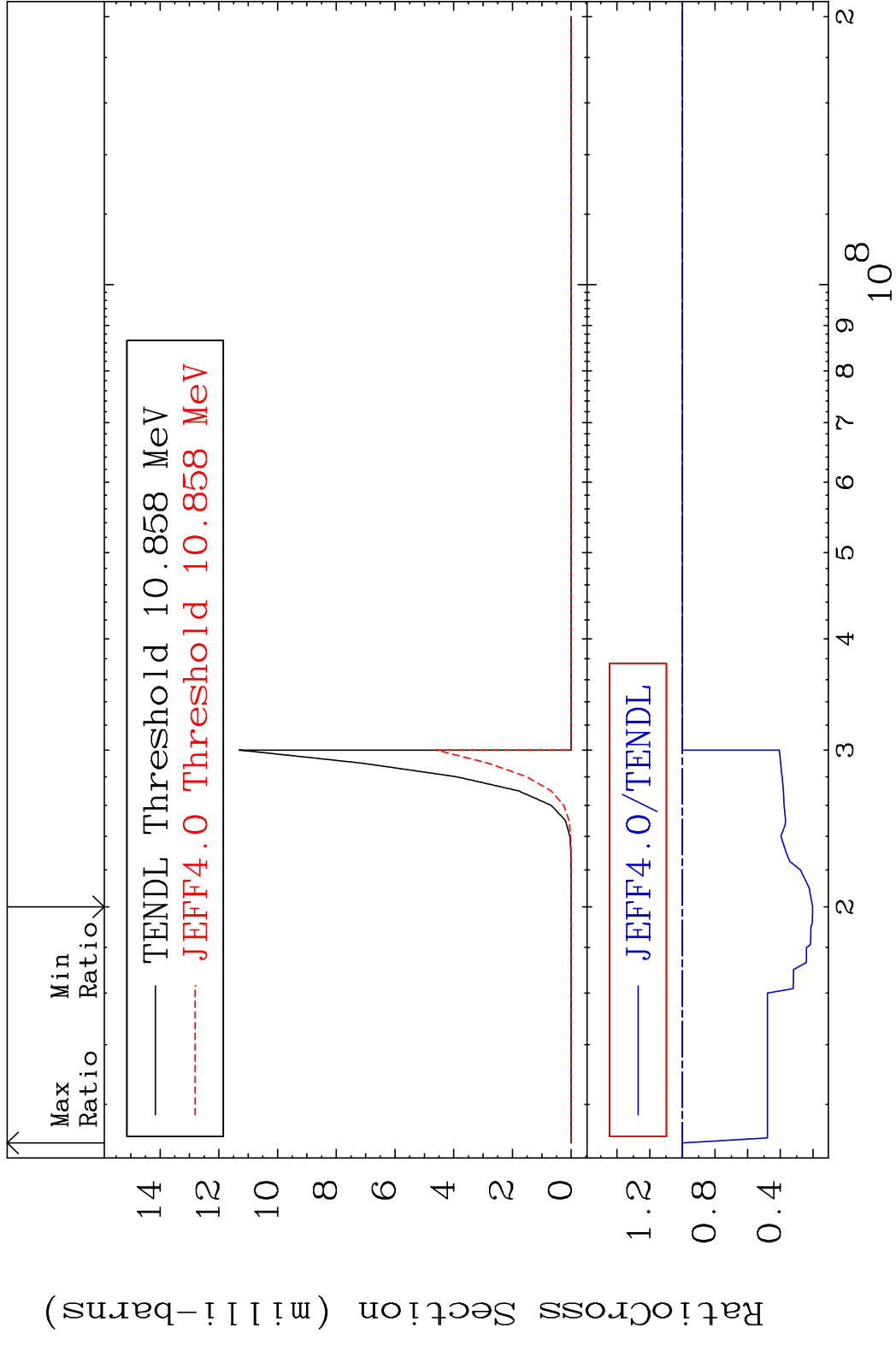
79 Incident Energy (eV) 60-Nd-142

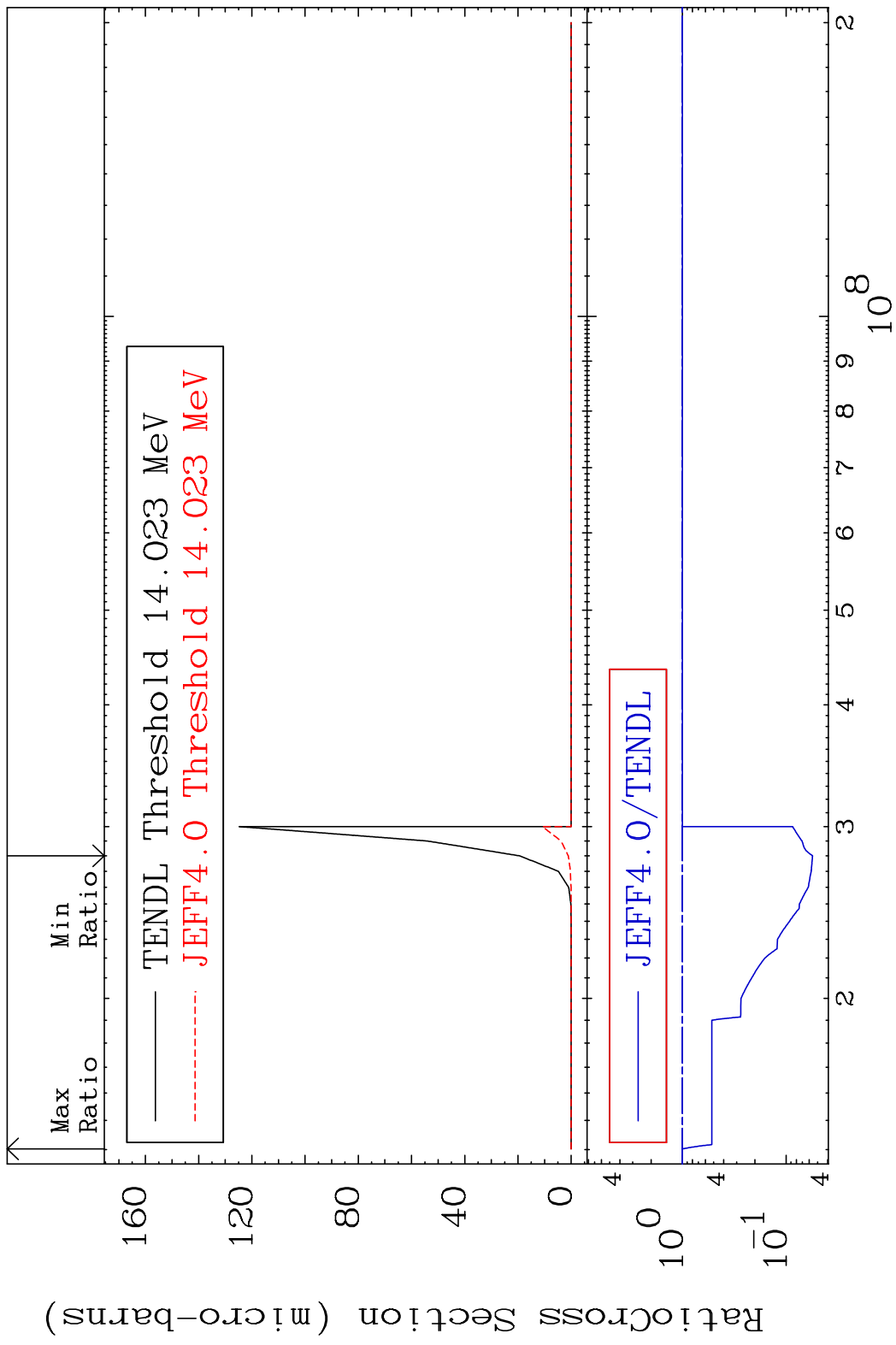
MAT 6025 (n,2n):60-Nd-141m2 60-Nd-142  
 Radionuclide Production Cross Section 38.24 %

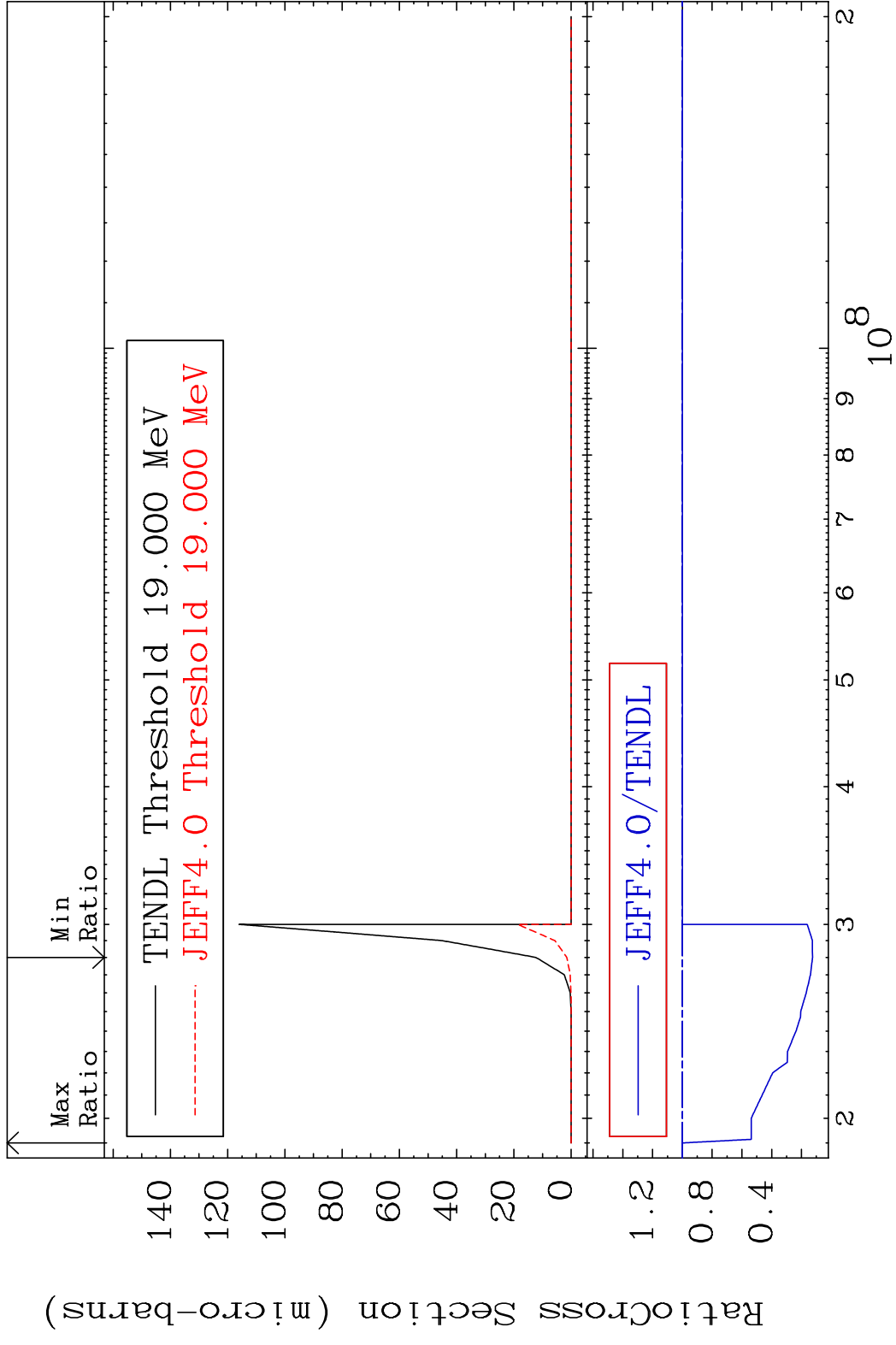


MAT 6025 (n,2n)  $\alpha$ :58-Ce-137g 60-Nd-142  
 Radionuclide Production Cross Section 0.000 %

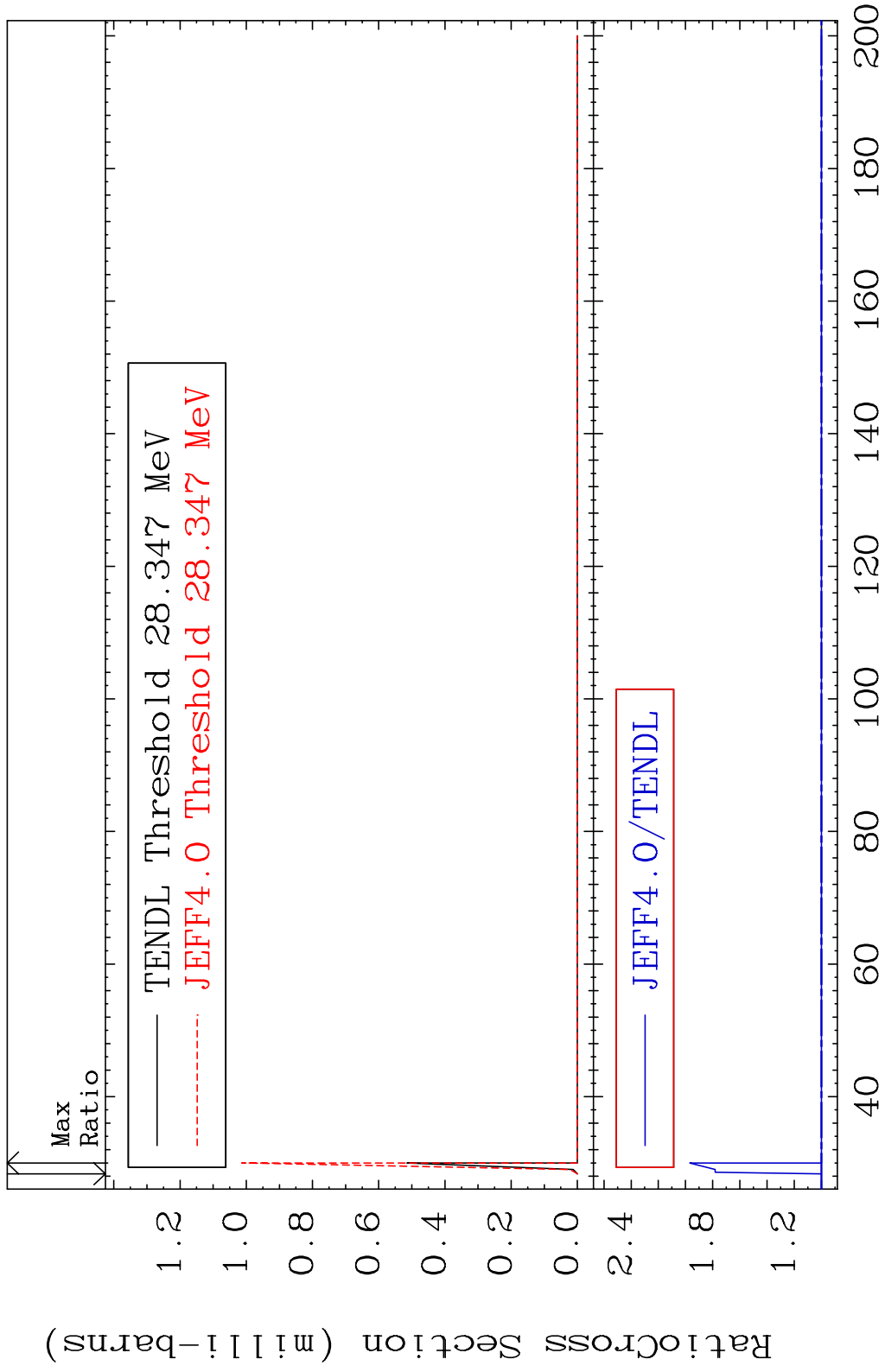




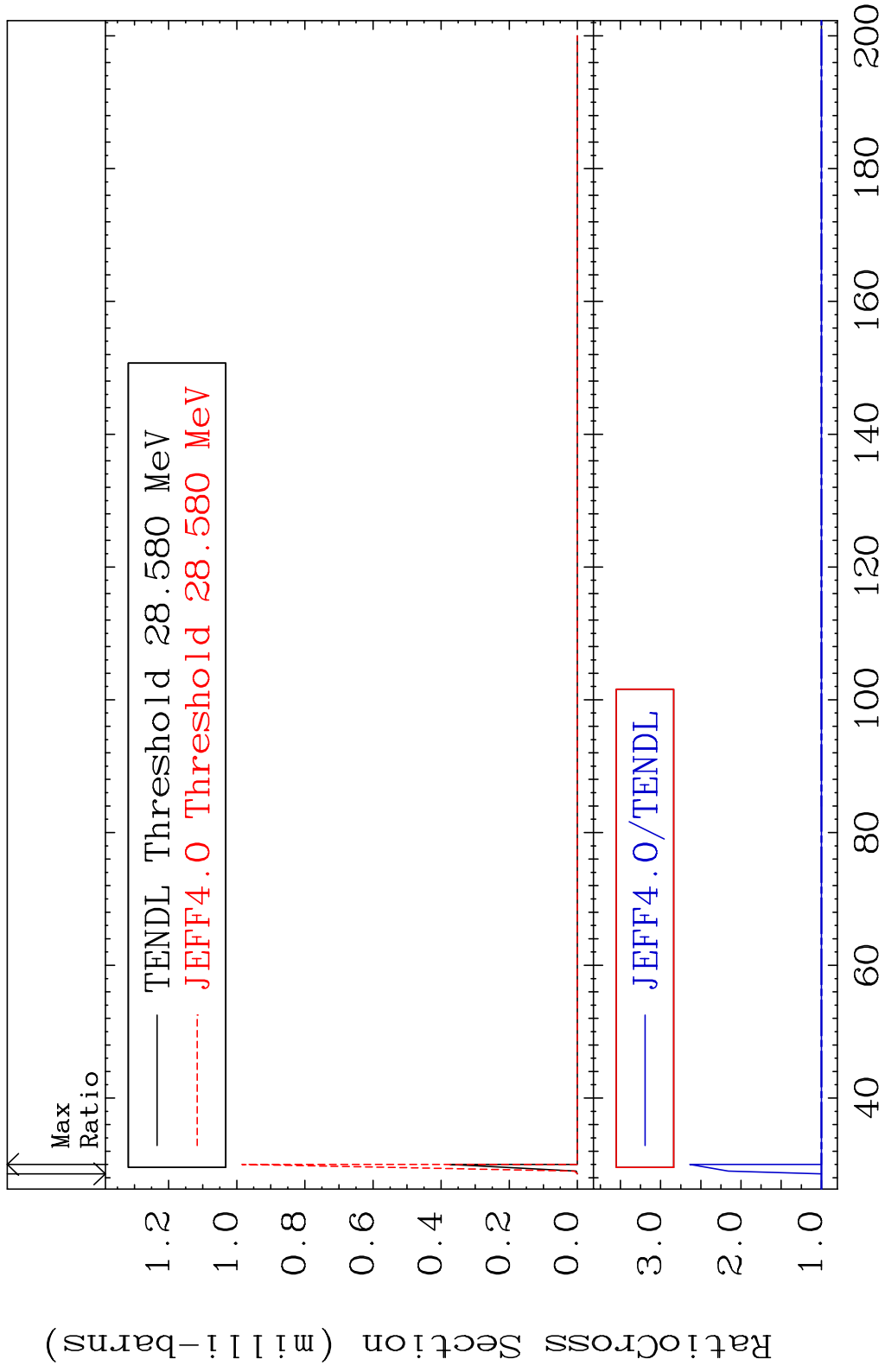




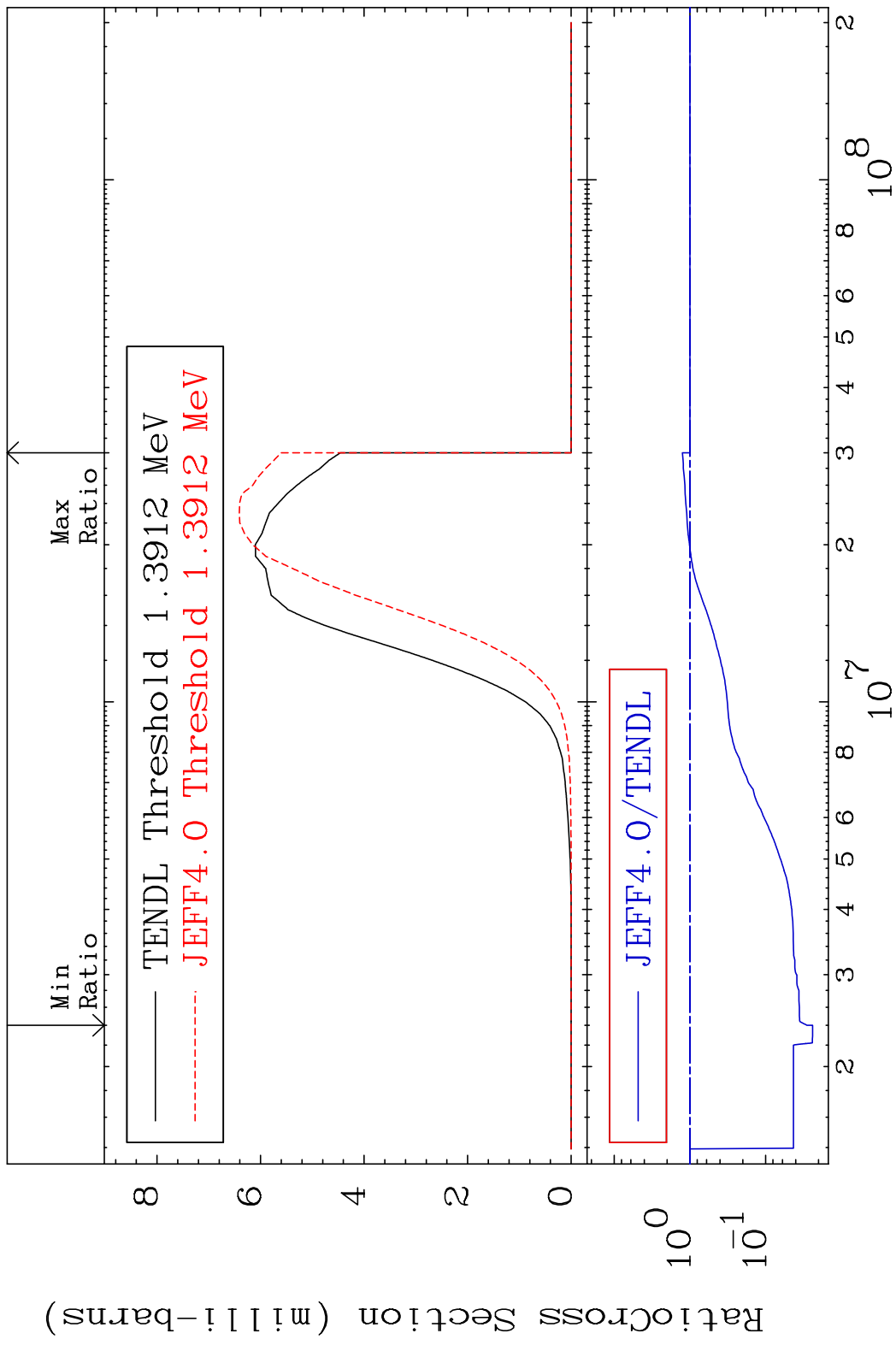
MAT 6025 (n,4n):60-Nd-139g 60-Nd-142  
 Radionuclide Production Cross Section 96.85 %

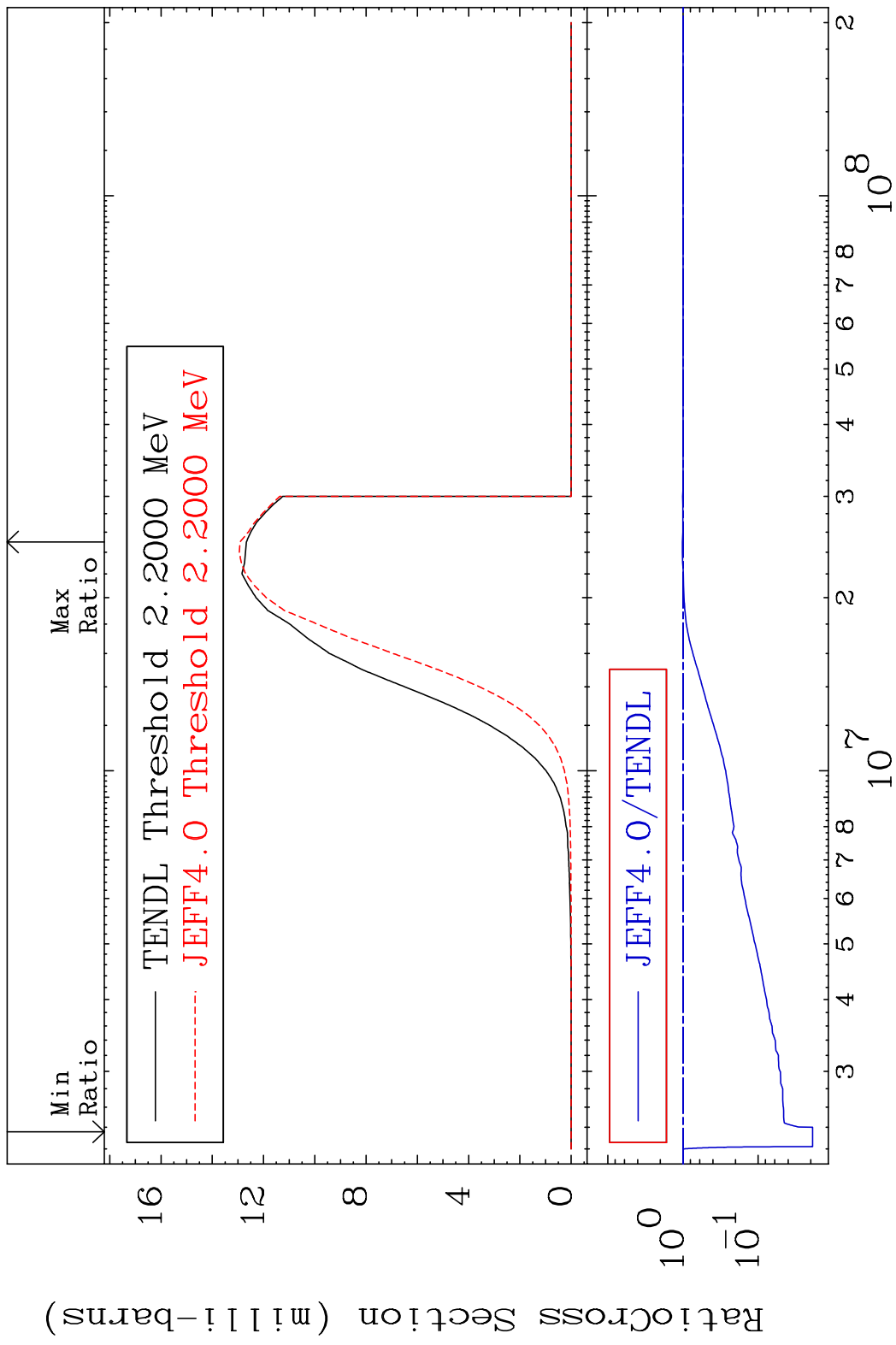


MAT 6025 (n, 4n):60-Nd-139m2 60-Nd-142  
 Radionuclide Production Cross Section 163.7 %

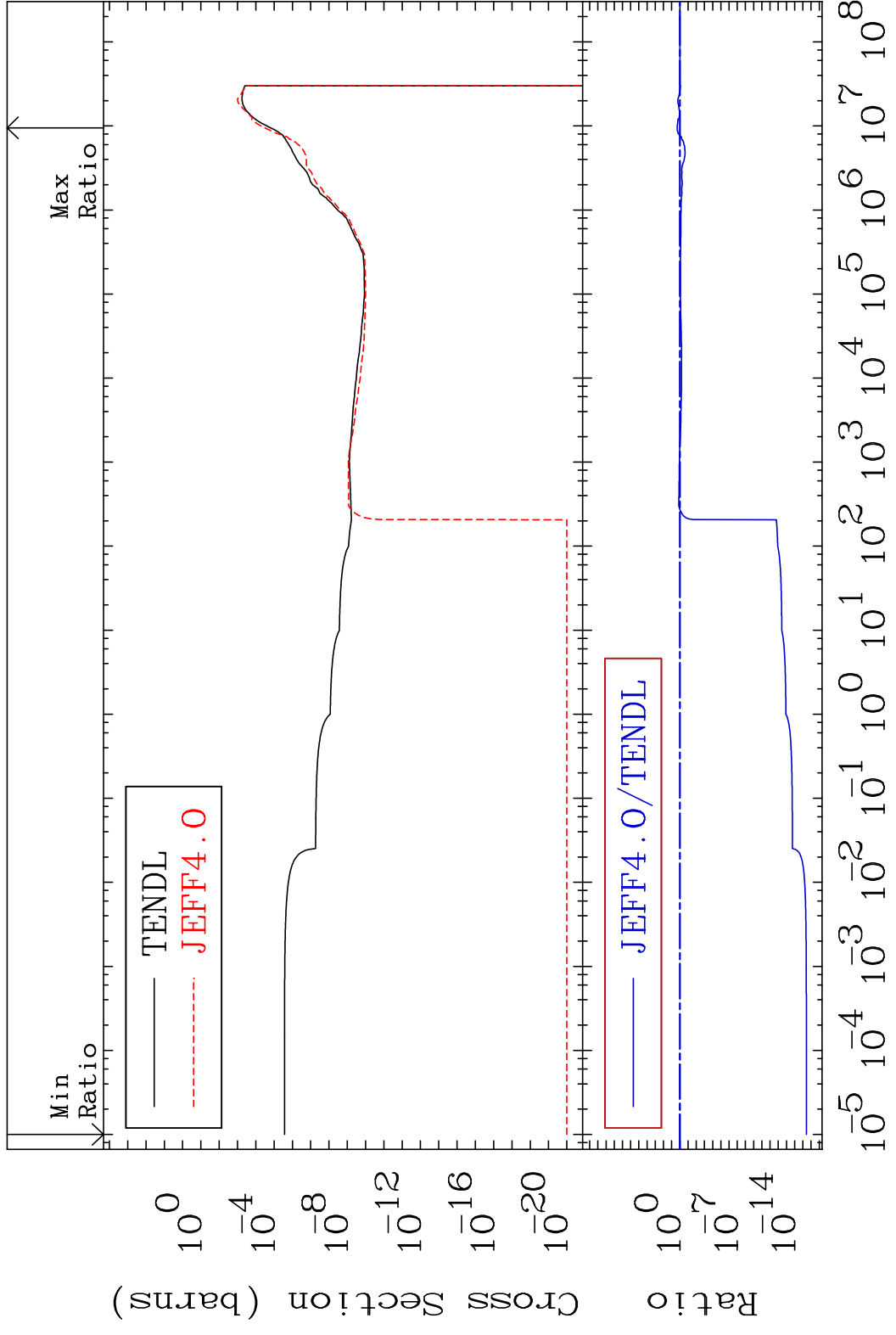


MAT 6025 (n,p):59-Pr-142g 60-Nd-142  
 Radionuclide Production Cross Section 25.60 %

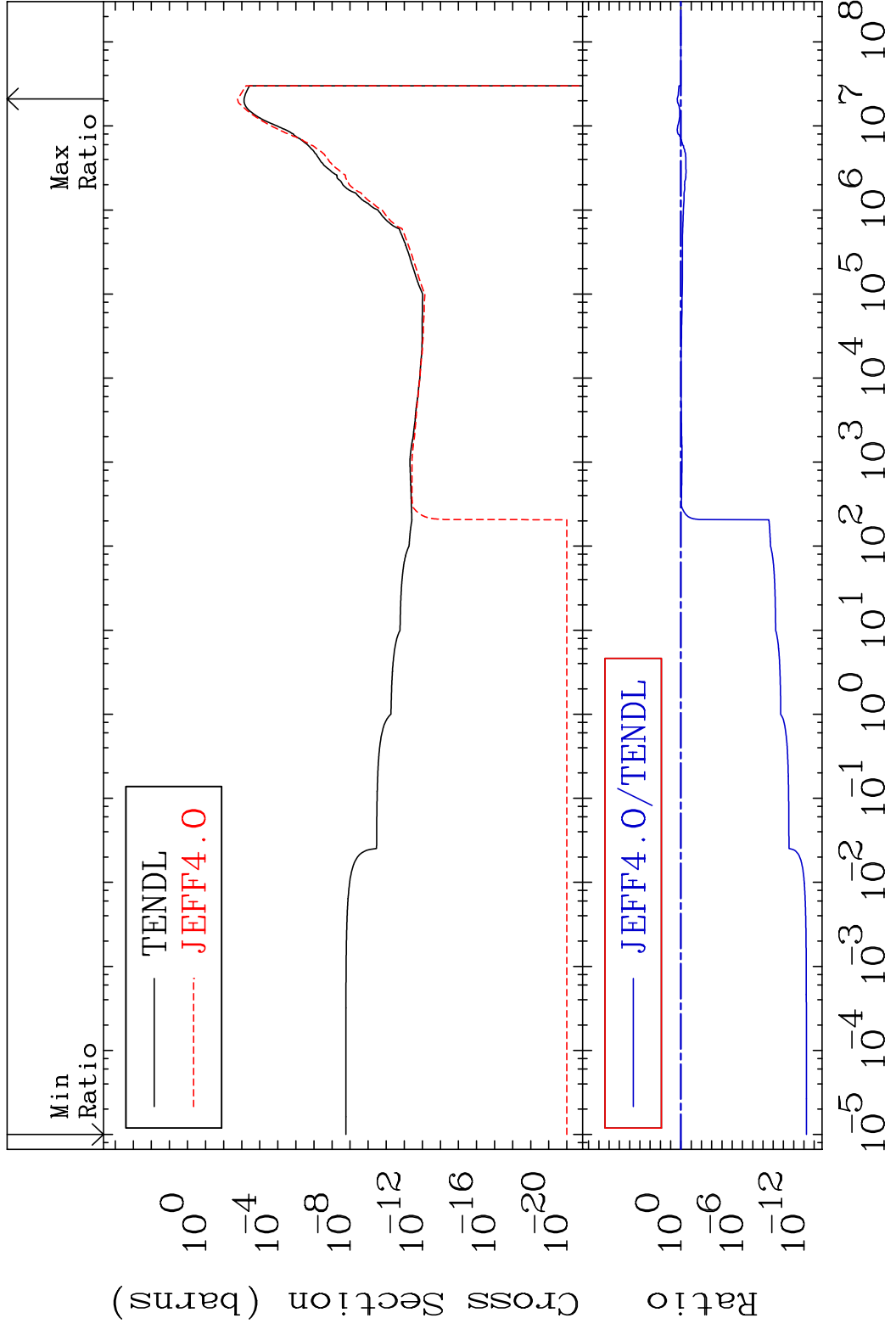




MAT 6025 (n,α):58-Ce-139g 60-Nd-142  
 Radionuclide Production Cross Section 100.0 dth 111.5 %

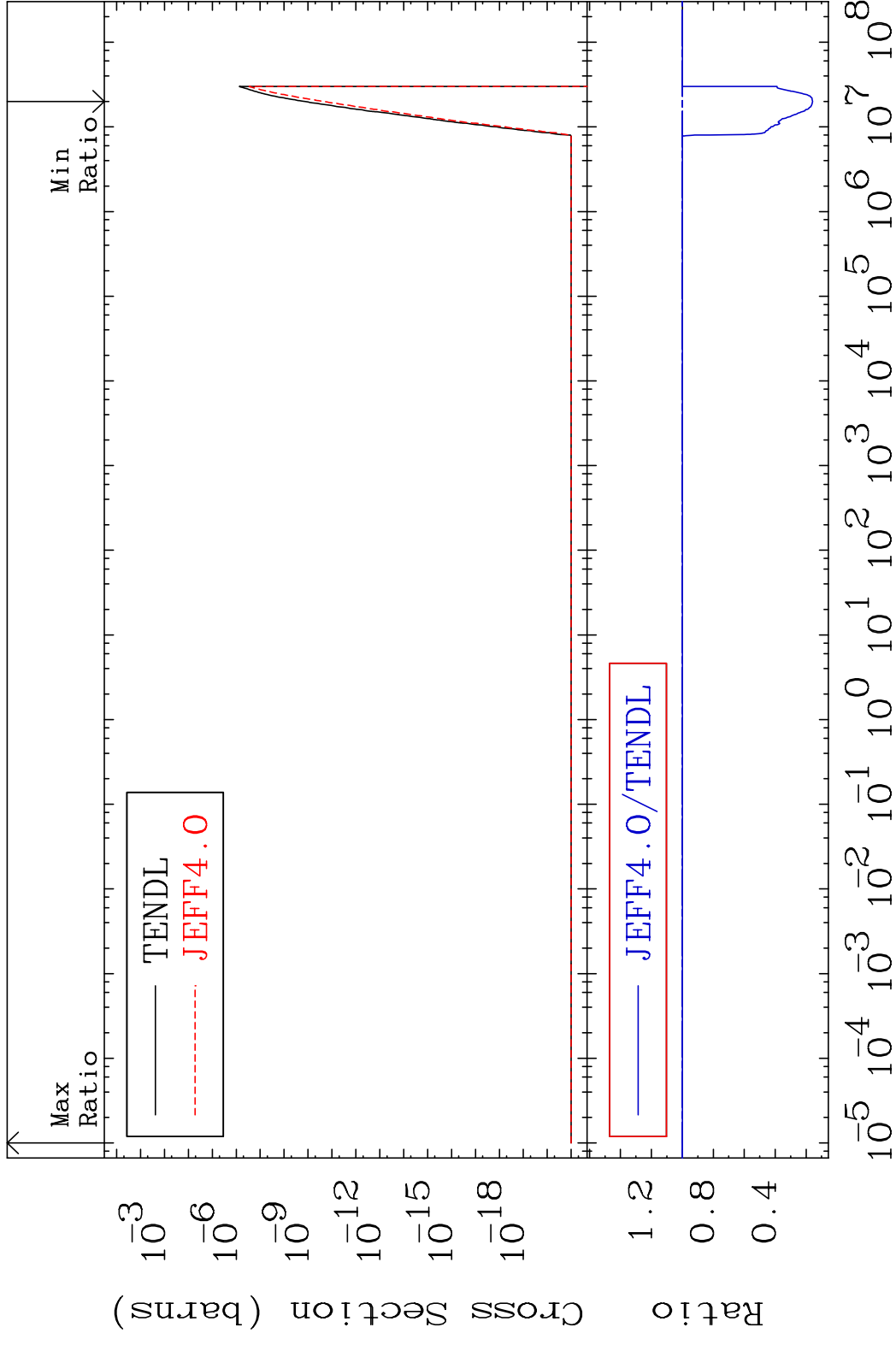


MAT 6025 (n,  $\alpha$ ):58-Ce-139m2 60-Nd-142  
 Radionuclide Production Cross Section 130.9 %



90 Incident Energy (eV) 60-Nd-142

MAT 6025 (n,2α):56-Ba-135g 60-Nd-142  
 Radionuclide Production Cross Section 0.000 %



MAT 6025 (n, 2α):56-Ba-135m2 60-Nd-142  
 Radionuclide Production Cross Section 5.60E-17 0.000 %

