

Program Complot  
(Version 2021-1)

by

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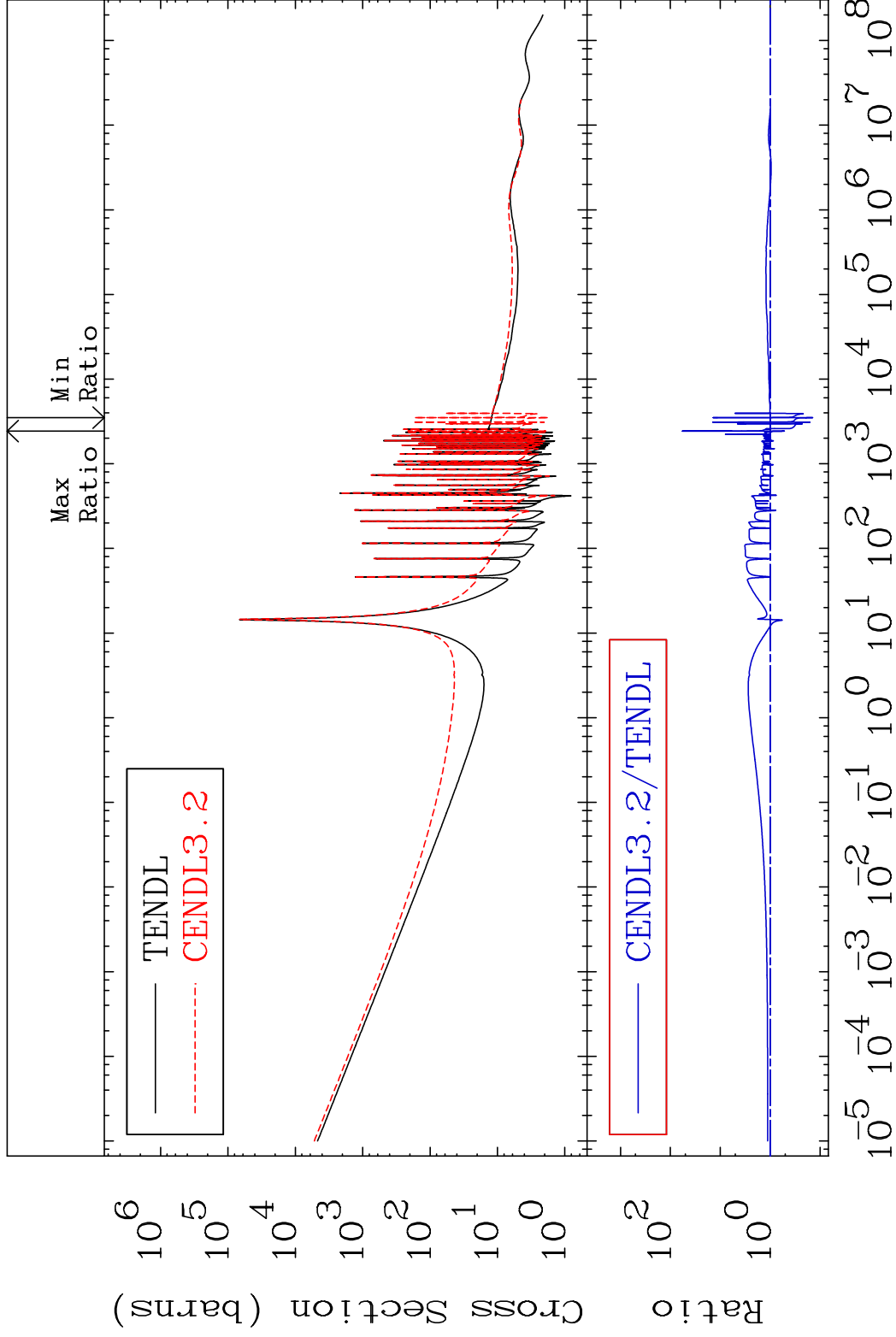
Press Mouse Button to Start

MAT 5446

Total

54-Xe-131

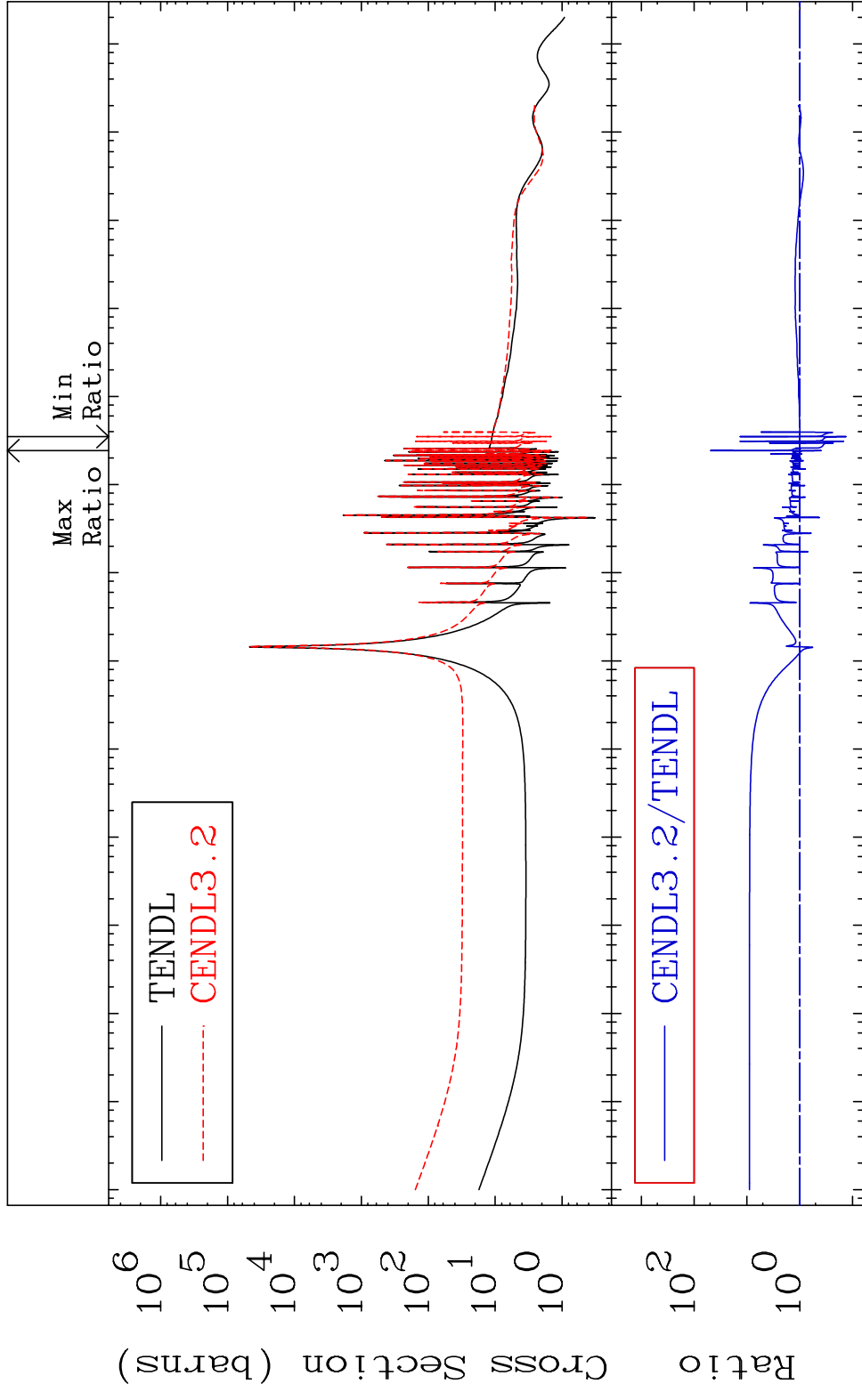
Cross Section -85.85 To 5658. %



54-Xe-131

MAT 5446

Elastic Cross Section -86.90 To 4746. %  
54-Xe-131

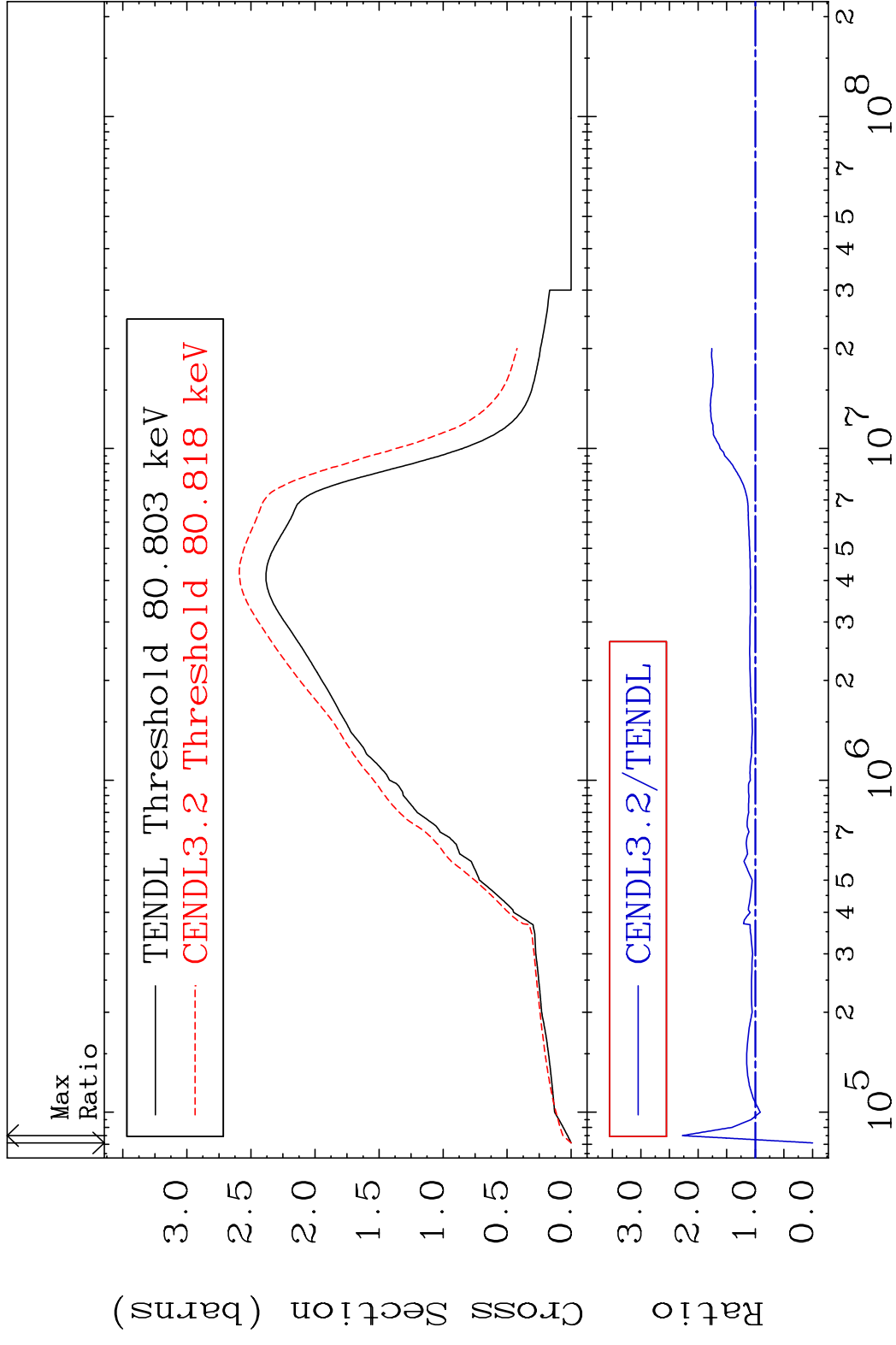


2

Incident Energy (eV)

54-Xe-131

MAT 5446 Inelastic 54-Xe-131  
 Cross Section -100.0 To 127.5 %



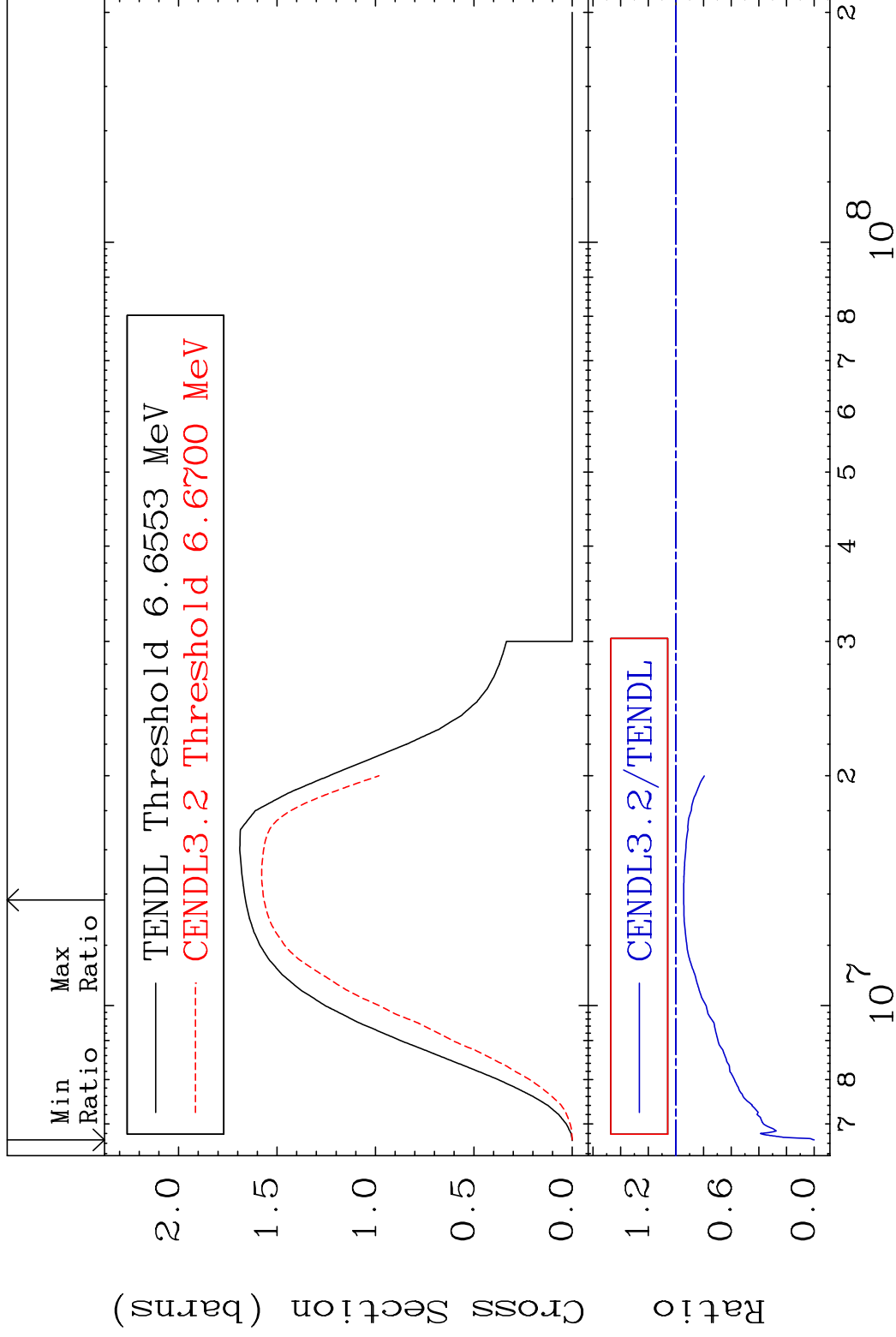
3 Incident Energy (eV) 54-Xe-131

MAT 5446

(n,2n)

54-Xe-131

Cross Section -100.0 To -5.651%



4

Incident Energy (eV)

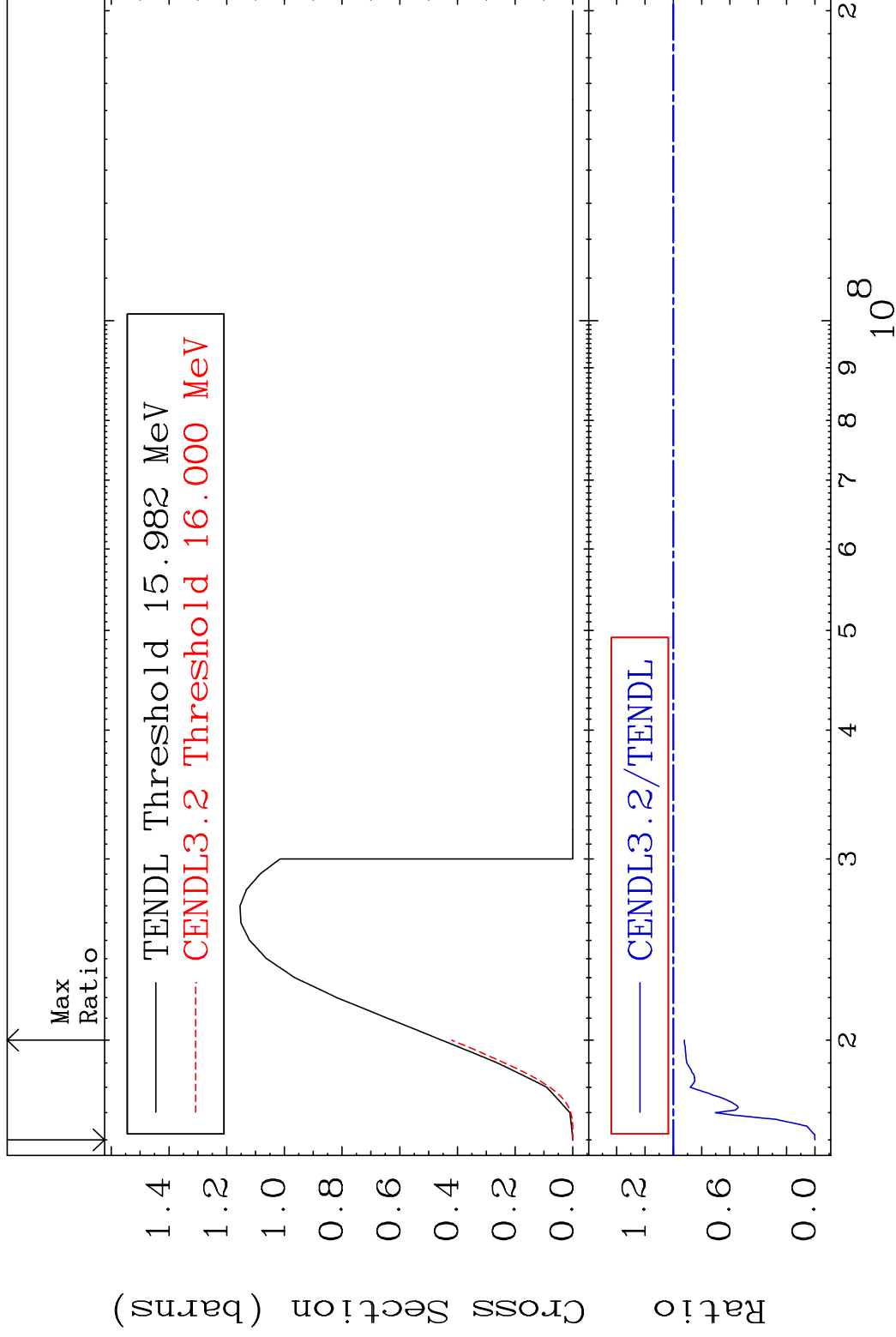
54-Xe-131

MAT 5446

(n,3n)

54-Xe-131

Cross Section -100.0 To -7.779%

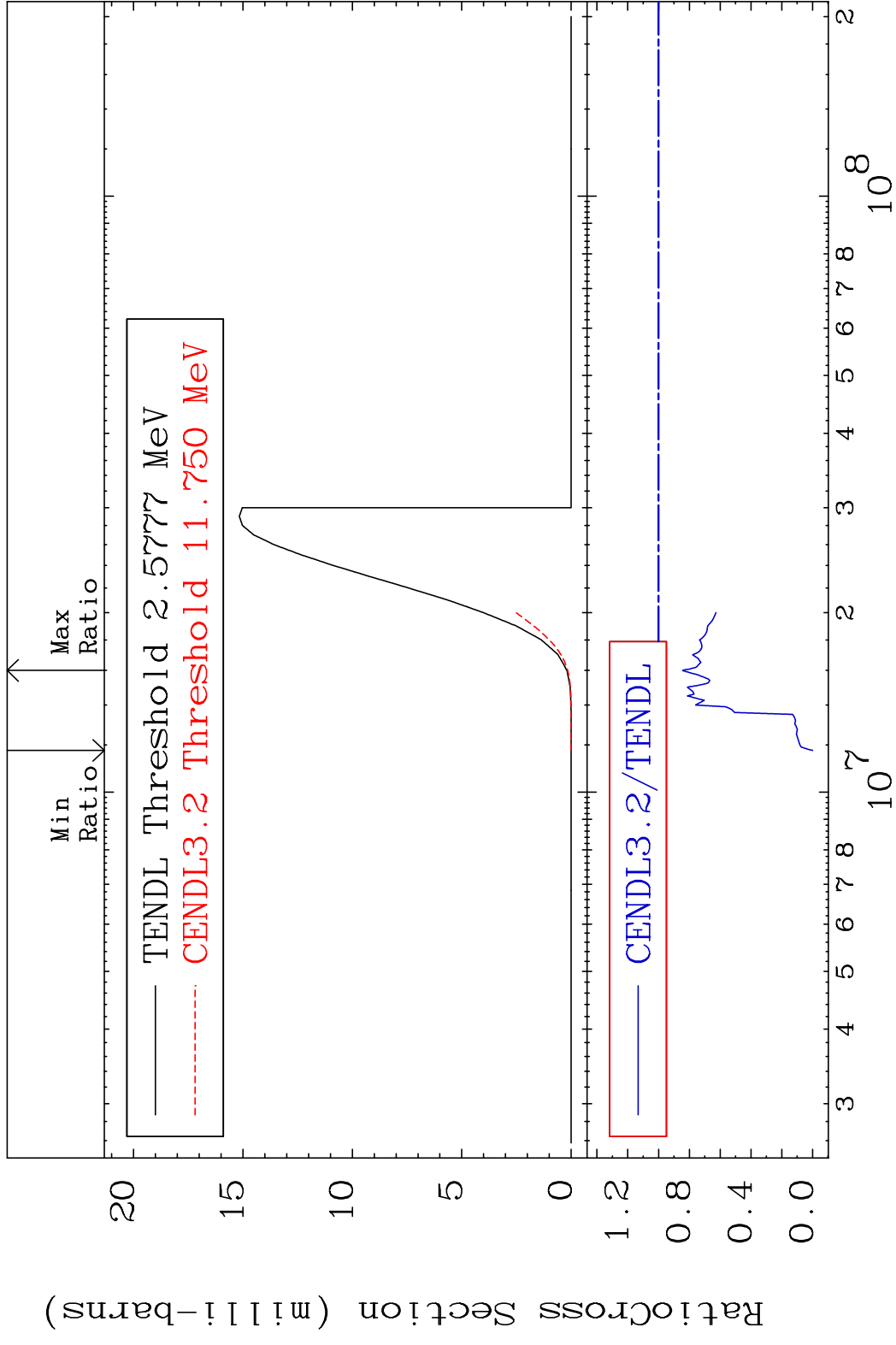


5

Incident Energy (eV)

54-Xe-131

MAT 5446 (n, n')  $\alpha$  54-Xe-131  
 Cross Section -100.0 To -15.45%



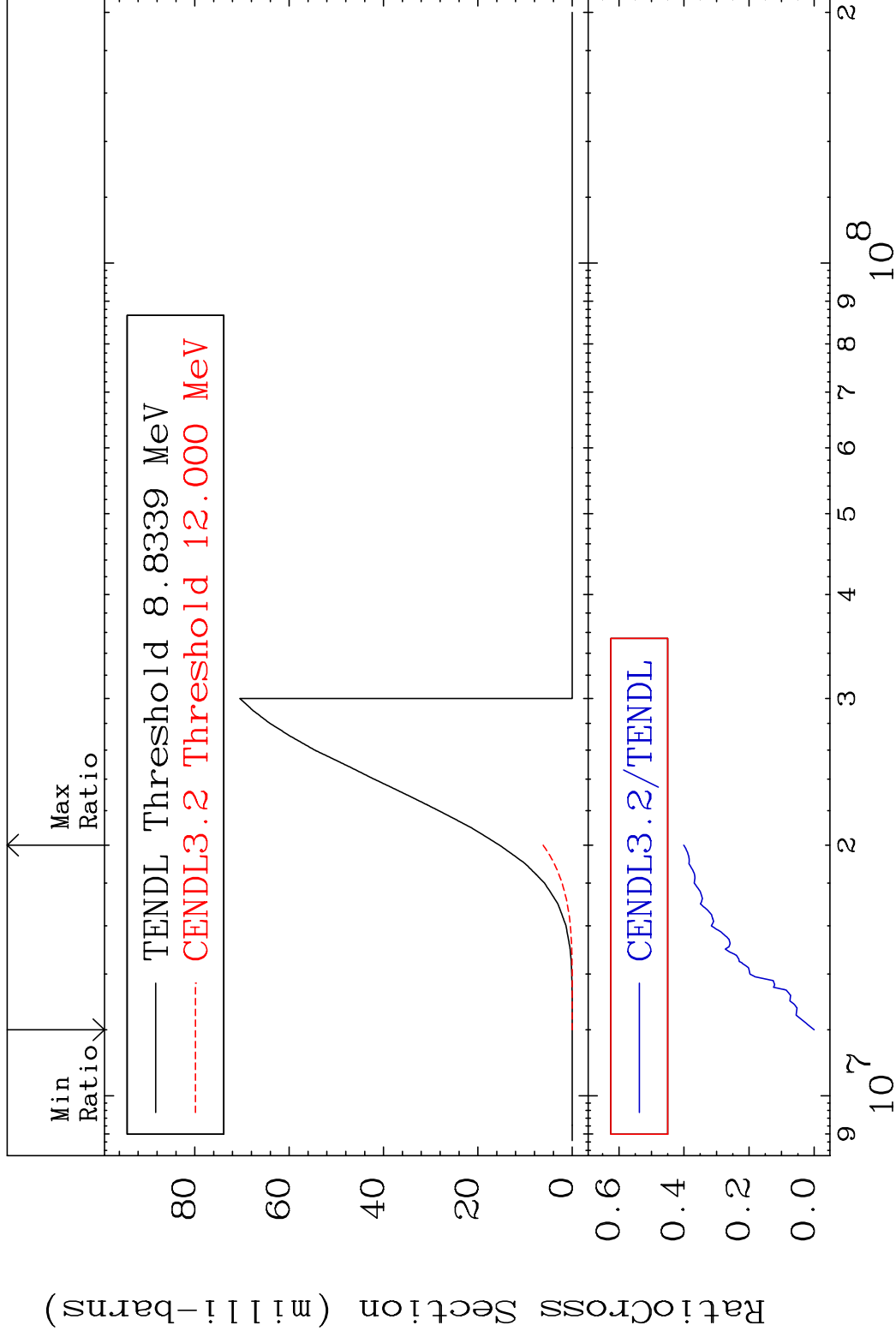
6 Incident Energy (eV) 54-Xe-131

MAT 5446

(n, n') p

54-Xe-131

Cross Section -100.0 To -59.90%

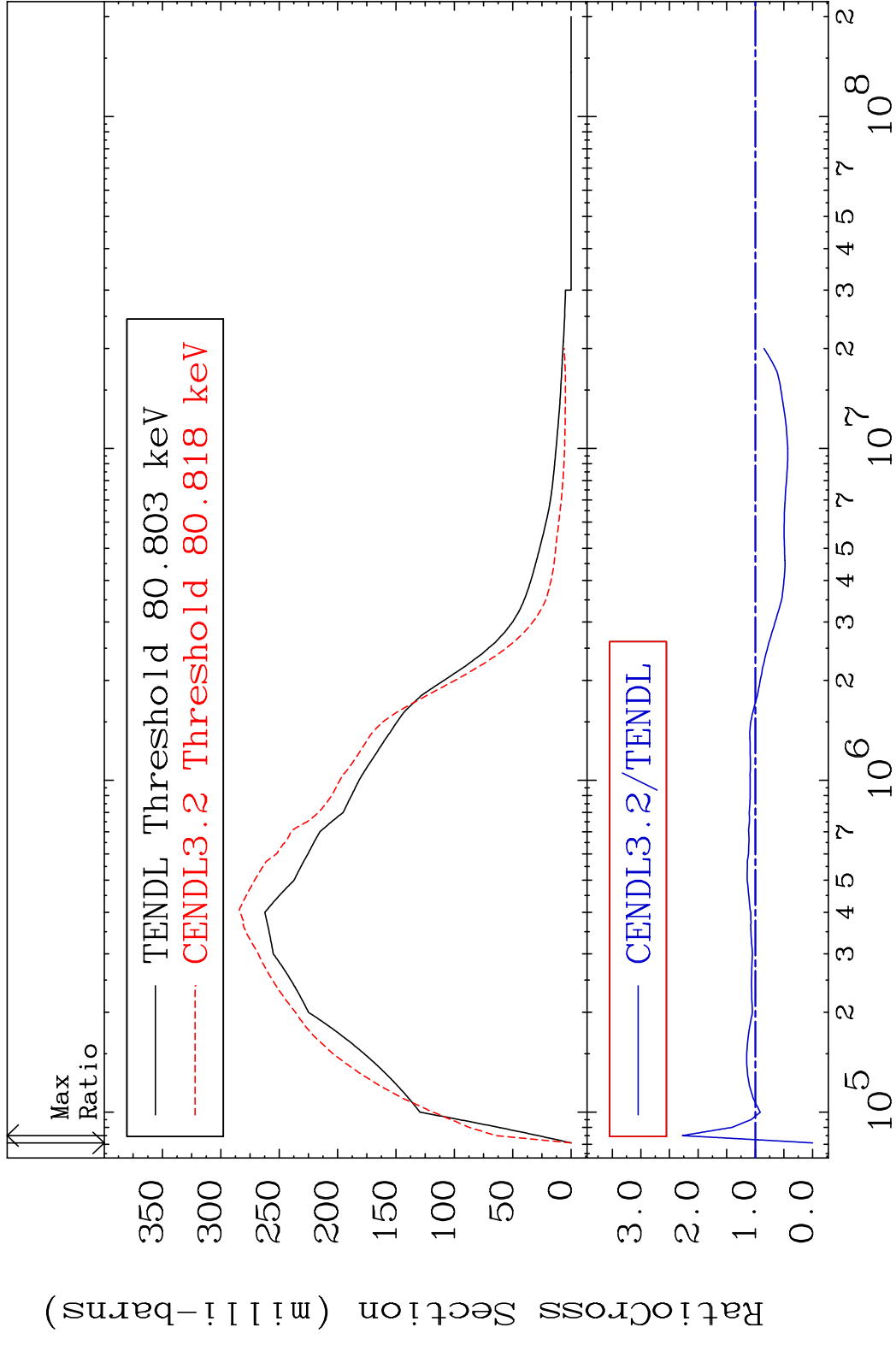


7

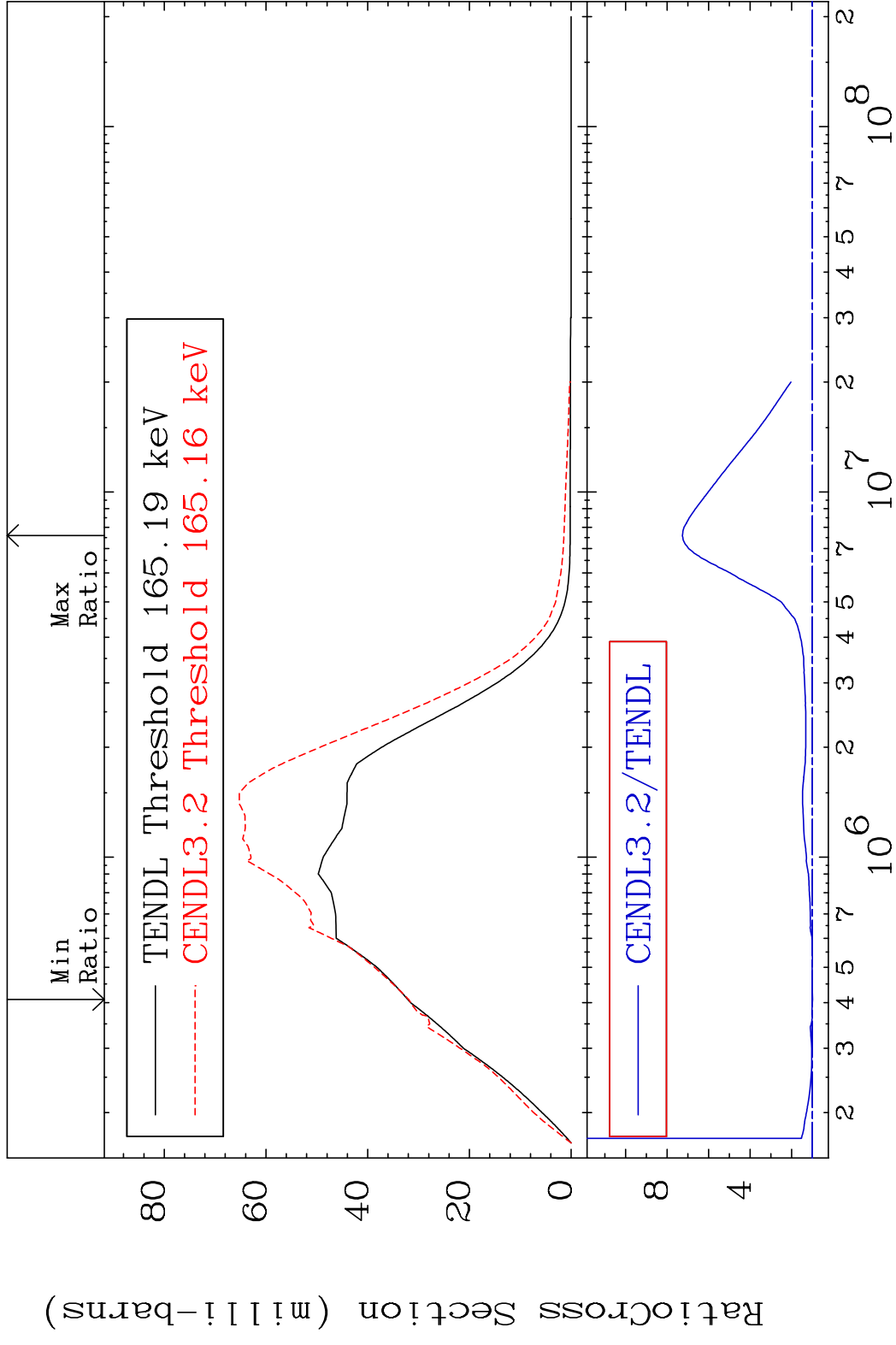
Incident Energy (eV)

54-Xe-131

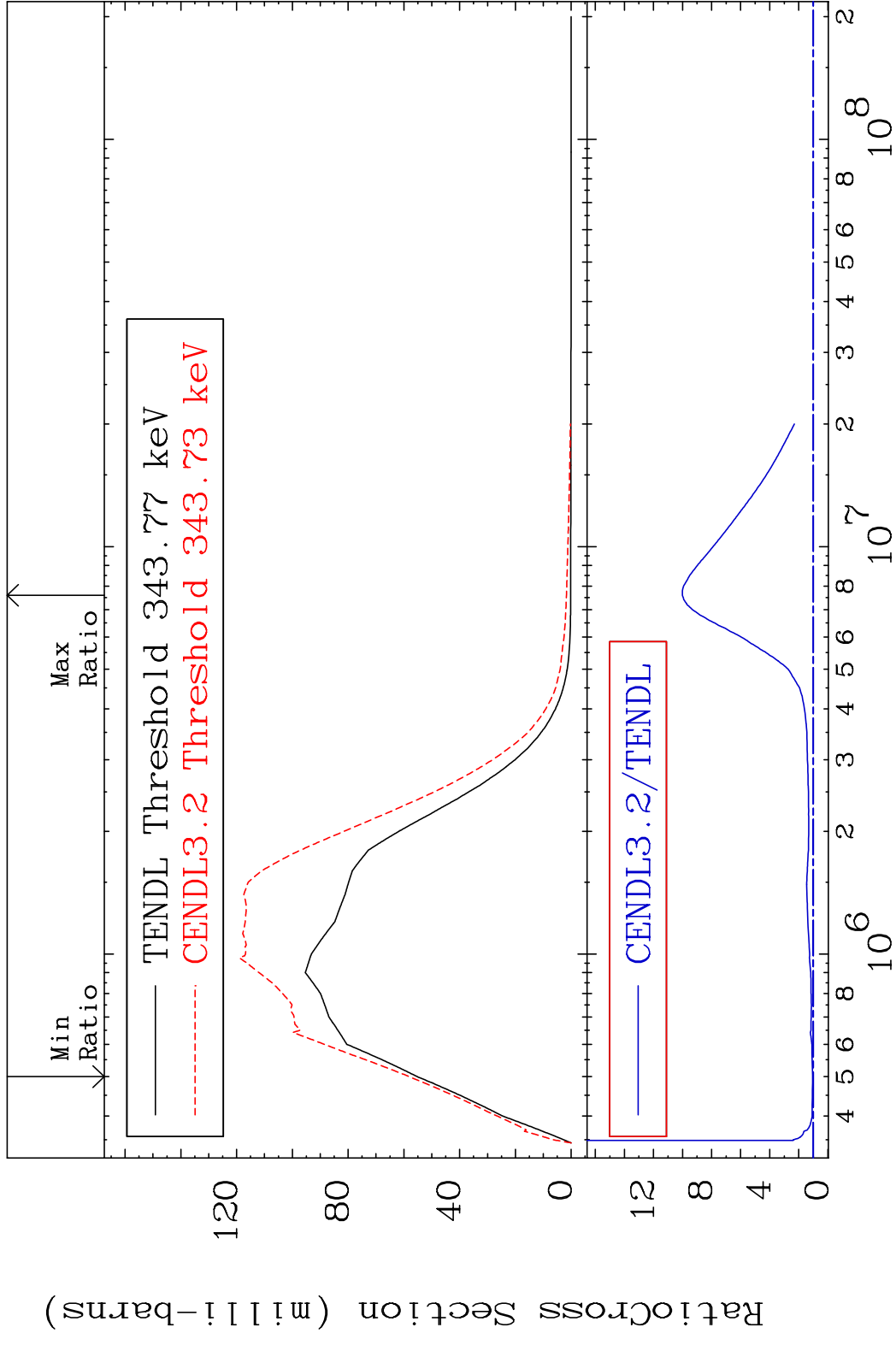
MAT 5446 MT= 51 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 127.5 %



MAT 5446 MT= 52 (n, n') Level 54-Xe-131  
 Cross Section -0.513 To 626.9 %

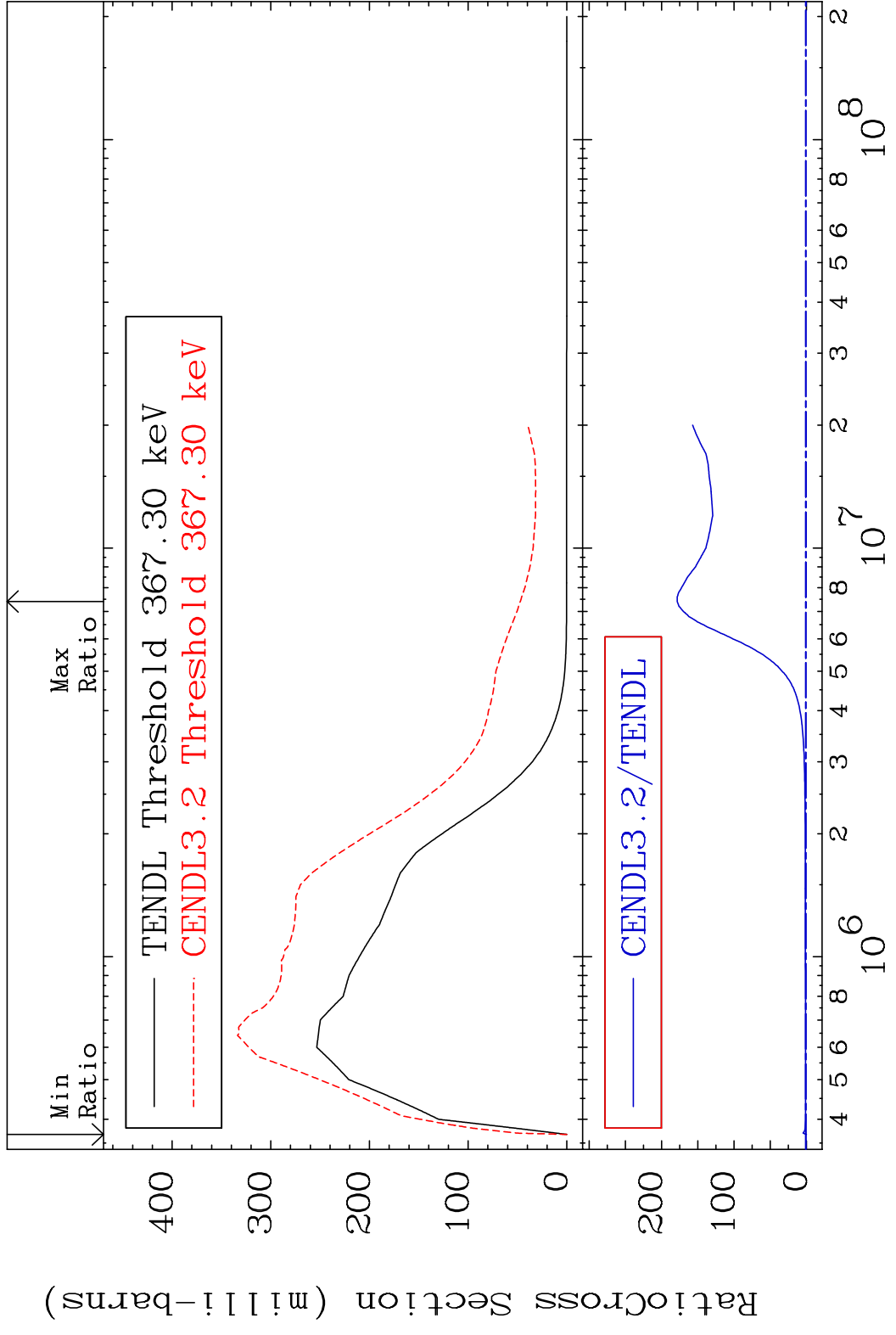


MAT 5446 MT= 53 (n, n') Level 54-Xe-131  
 Cross Section 5.181 To 901.2 %

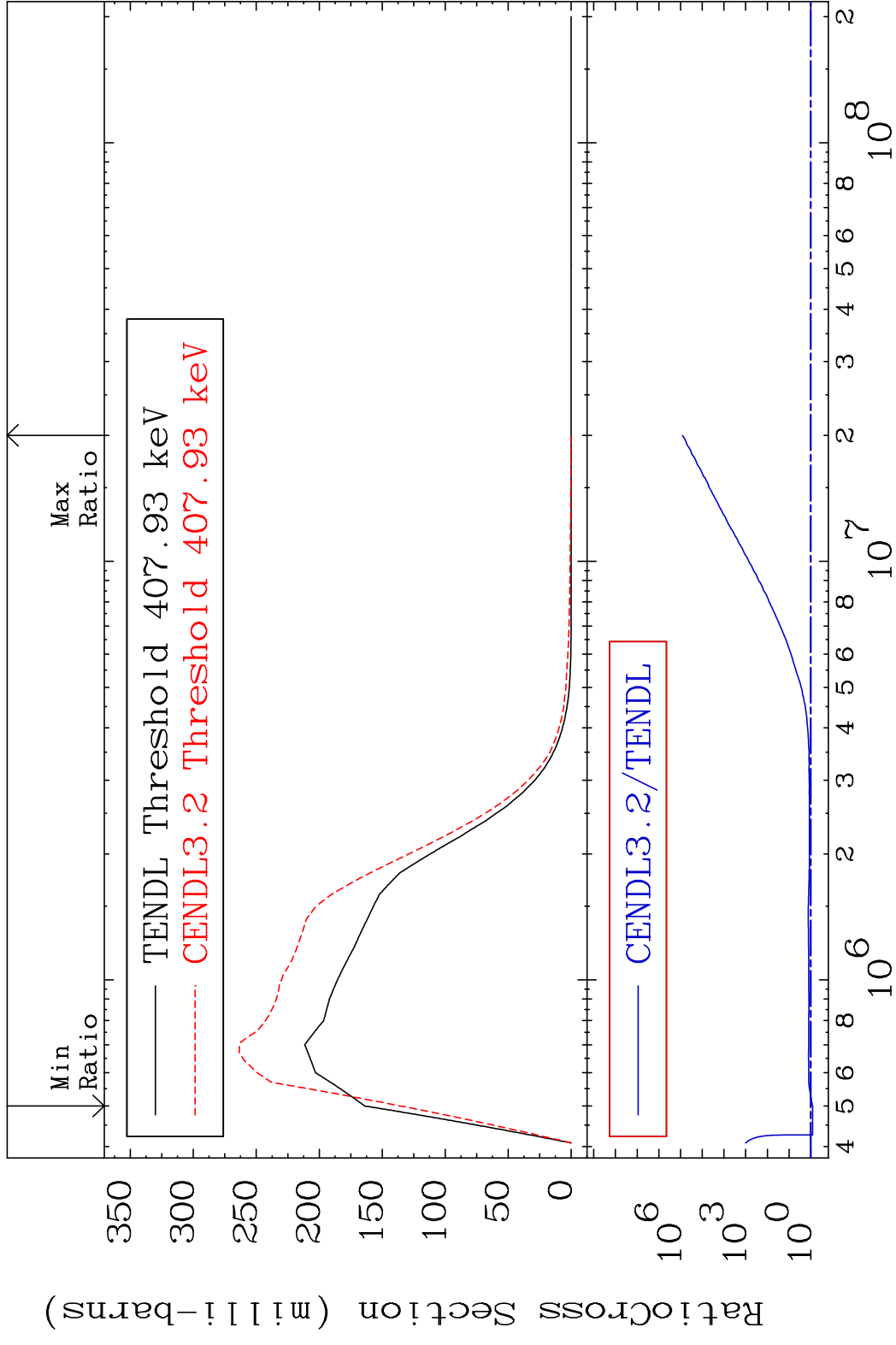


10 Incident Energy (eV) 54-Xe-131

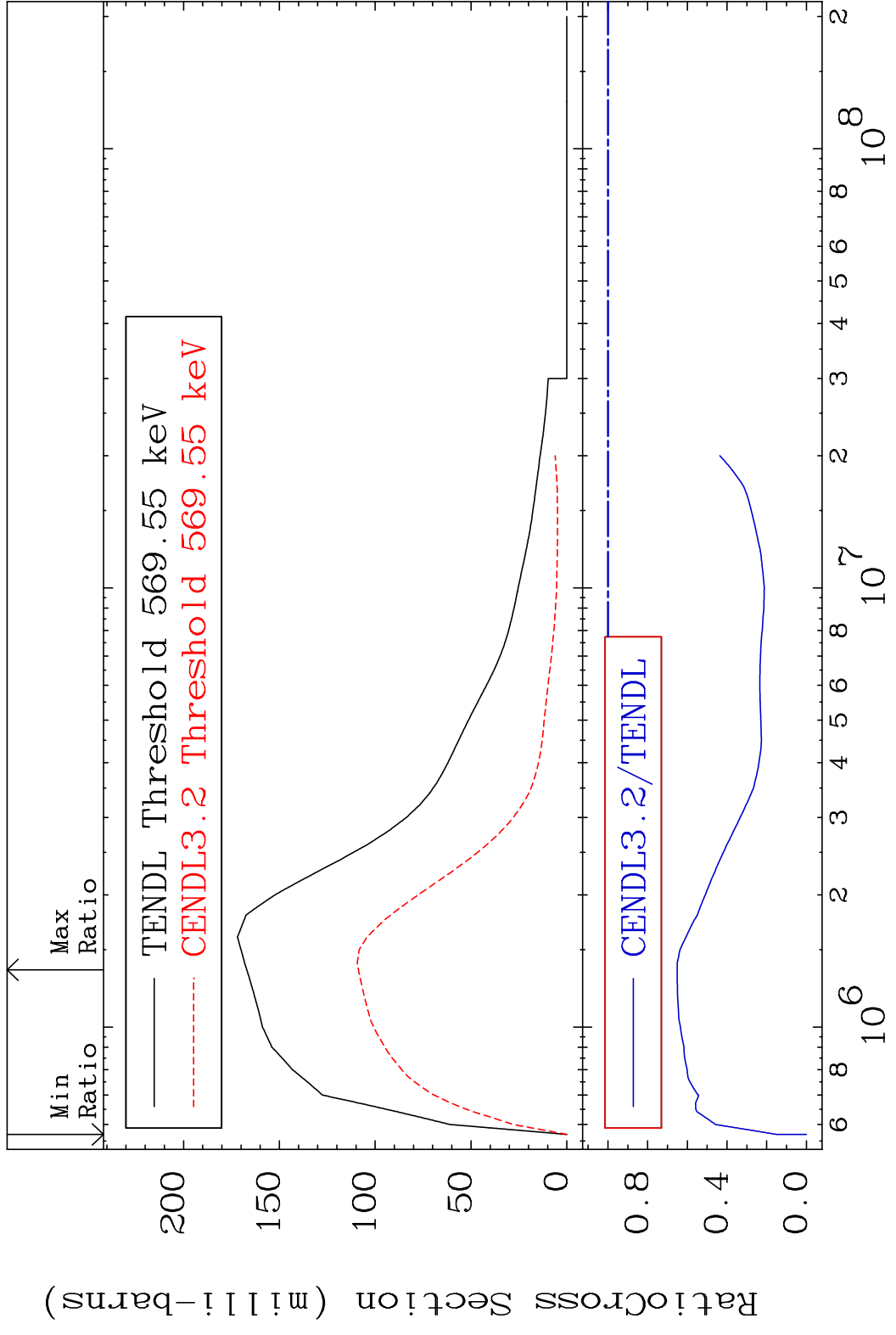
MAT 5446 MT= 54 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 9999. %



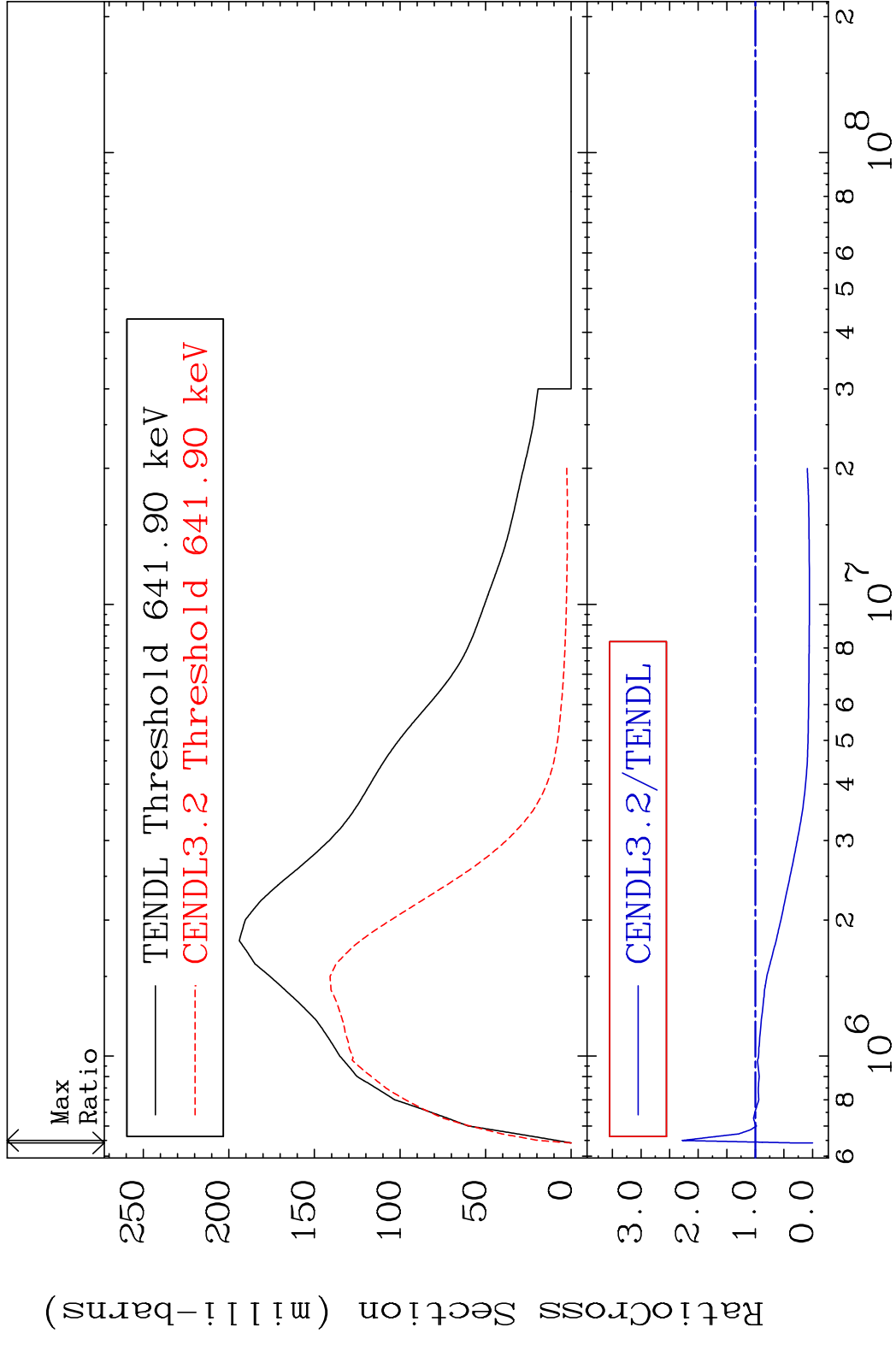
MAT 5446 MT= 55 (n,n') Level 54-Xe-131  
 Cross Section -17.28 To 9999. %



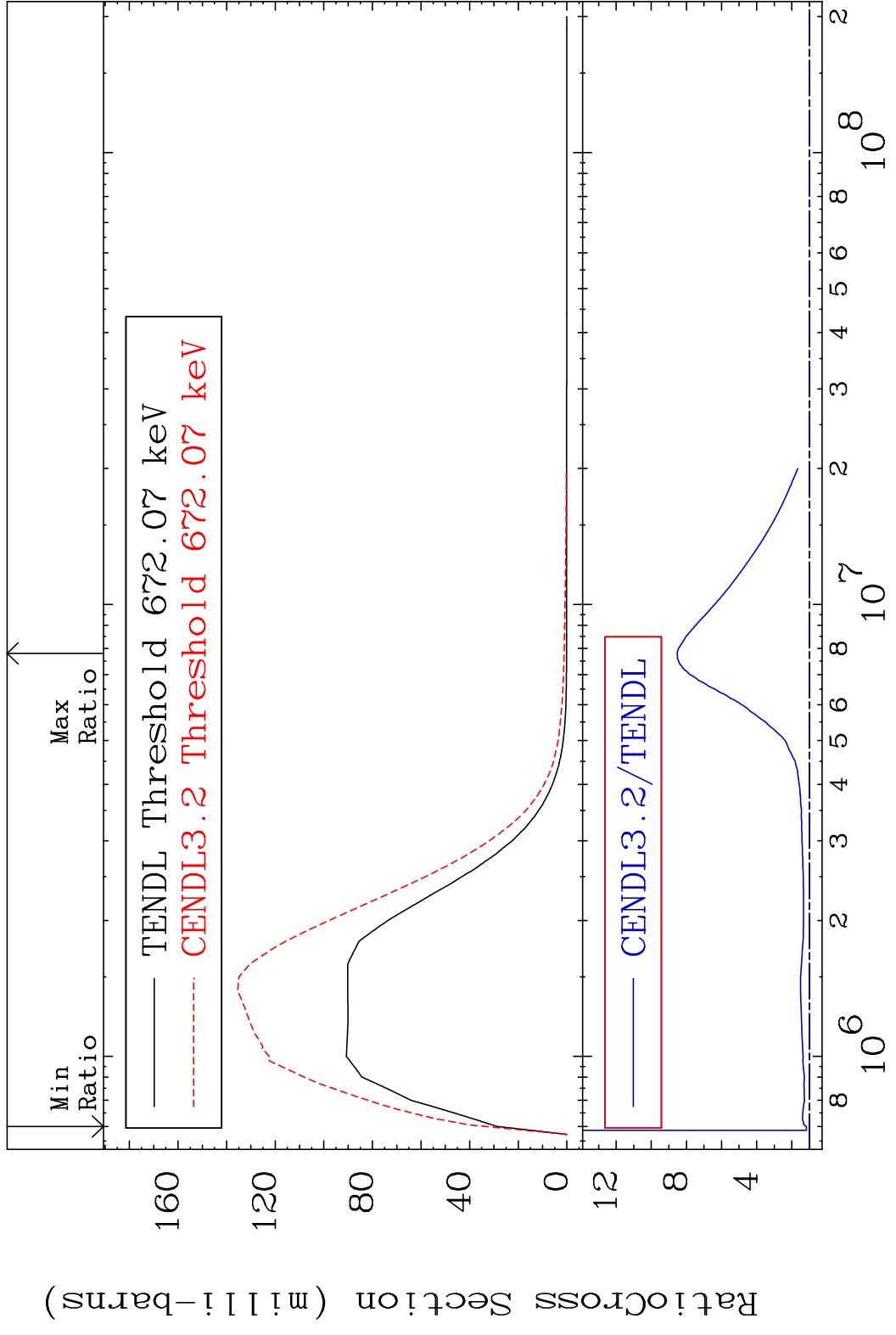
MAT 5446 MT= 56 (n,n') Level 54-Xe-131  
 Cross Section -100.0 To -34.89%



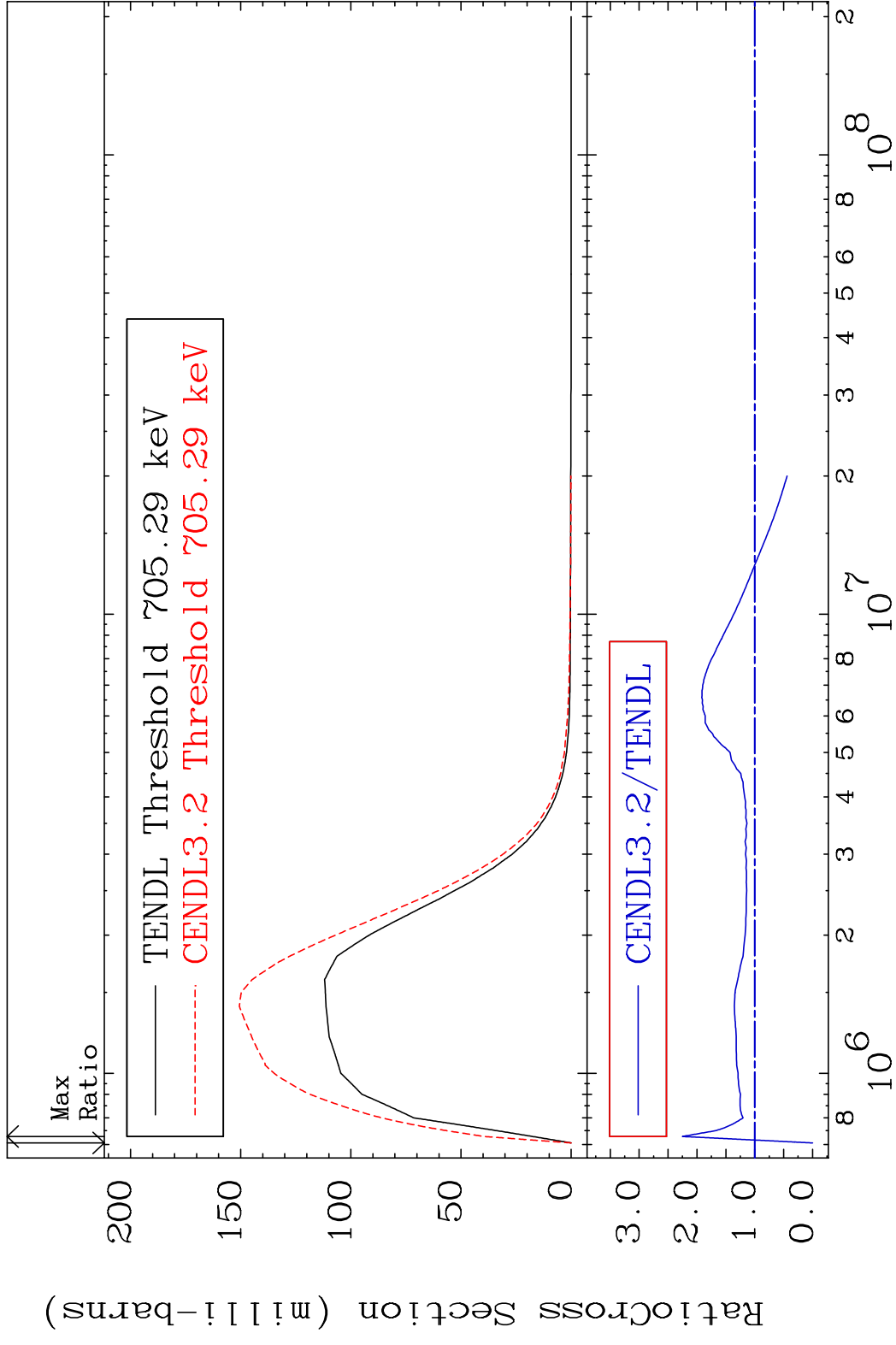
MAT 5446 MT= 57 (n,n') Level 54-Xe-131  
 Cross Section -100.0 To 127.7 %



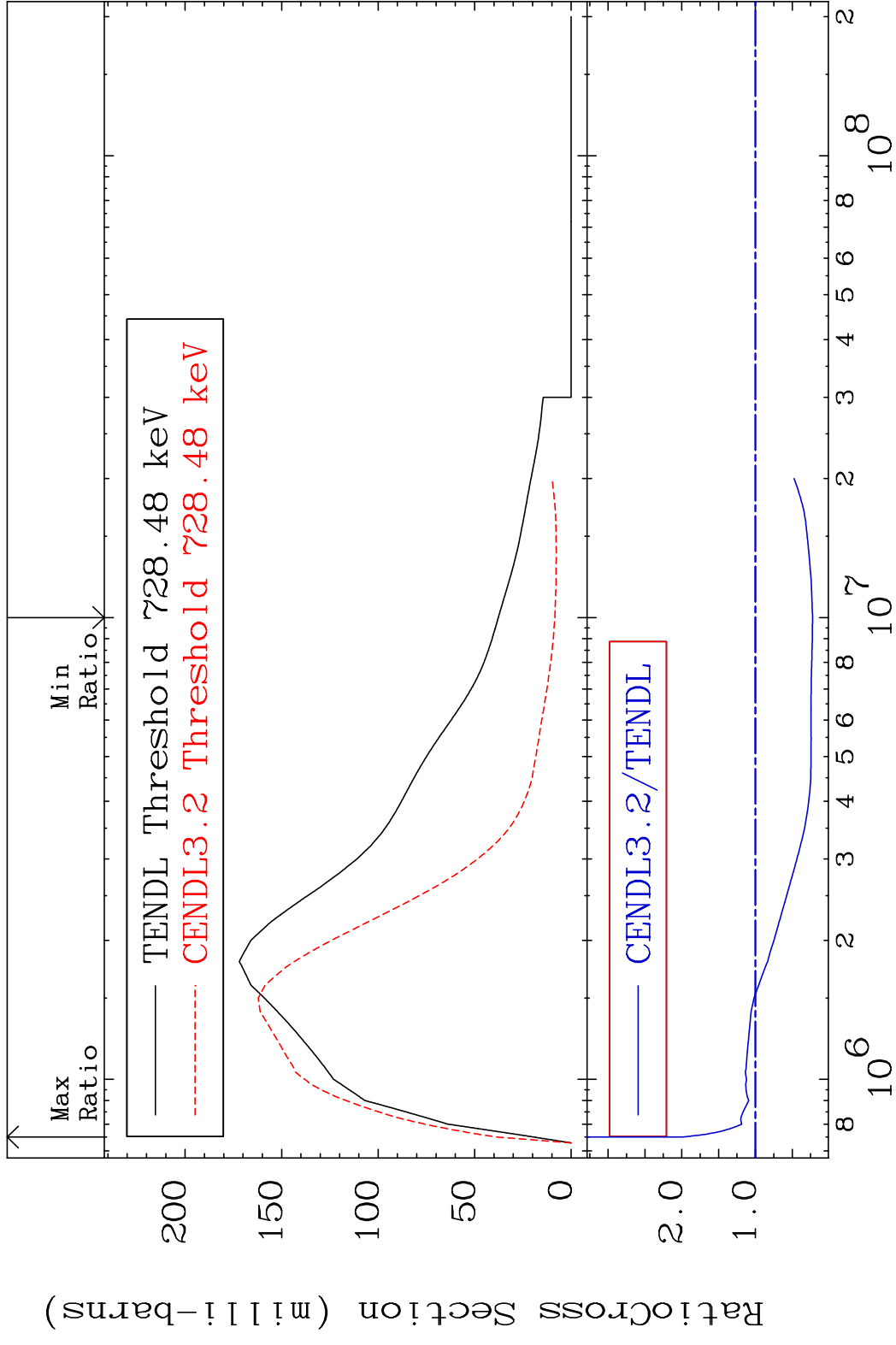
MAT 5446 MT= 58 (n, n') Level 54-Xe-131  
 Cross Section 16.63 To 752.5 %



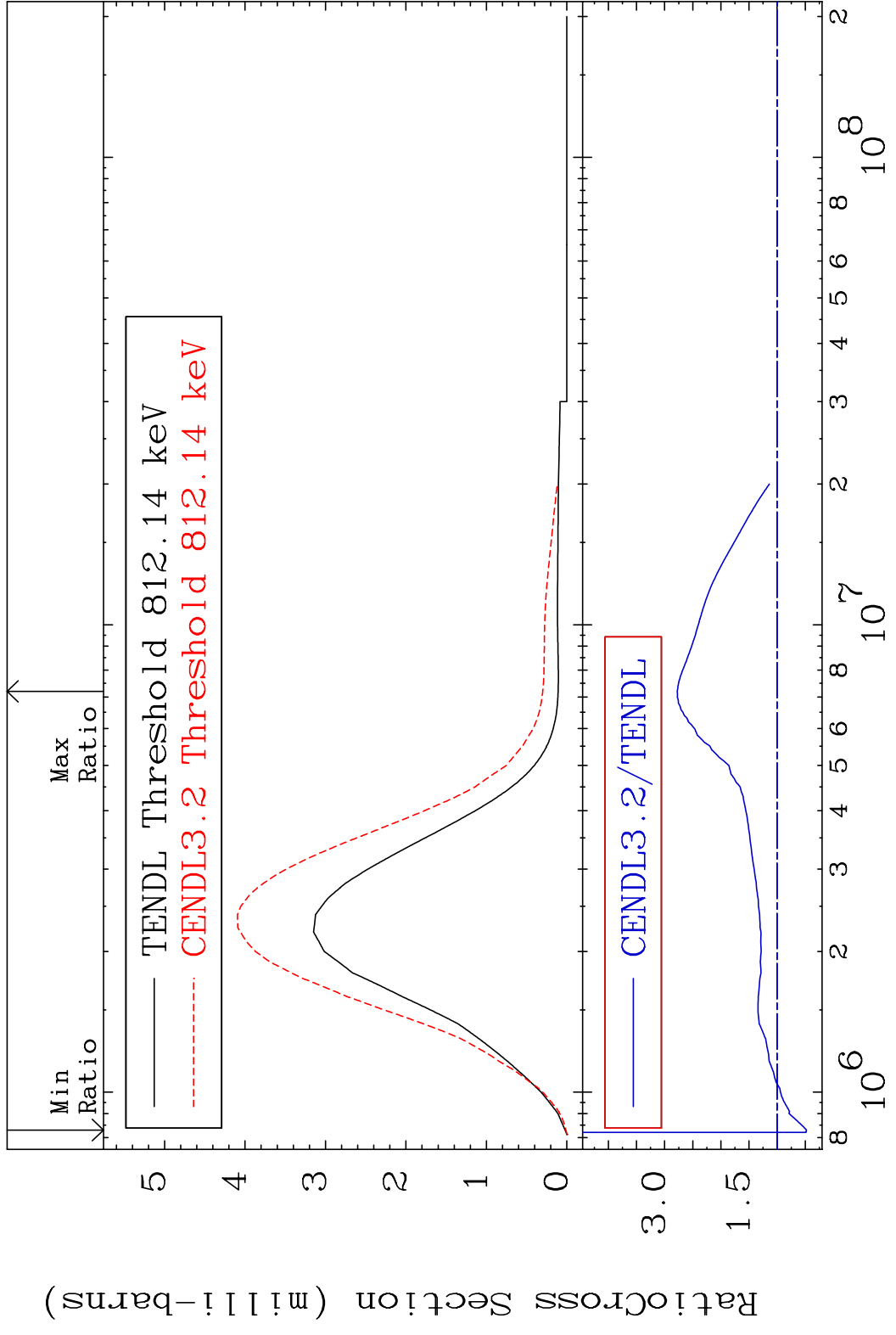
MAT 5446 MT= 59 (n,n') Level 54-Xe-131  
 Cross Section -100.0 To 125.2 %



MAT 5446 MT= 60 (n,n') Level 54-Xe-131  
 Cross Section -77.58 To 99.19 %

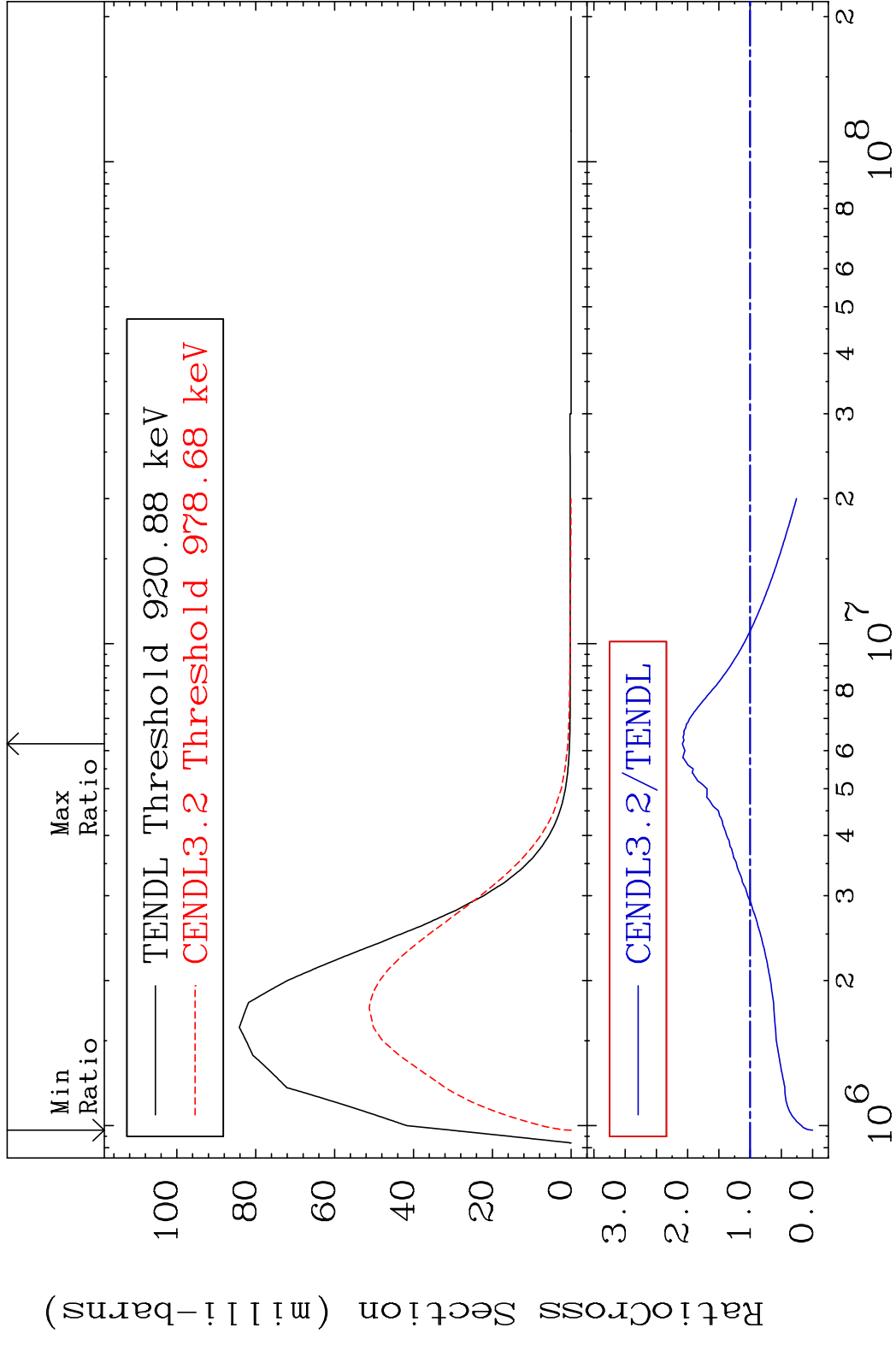


MAT 5446 MT= 61 (n, n') Level 54-Xe-131  
 Cross Section -52.02 To 177.7 %

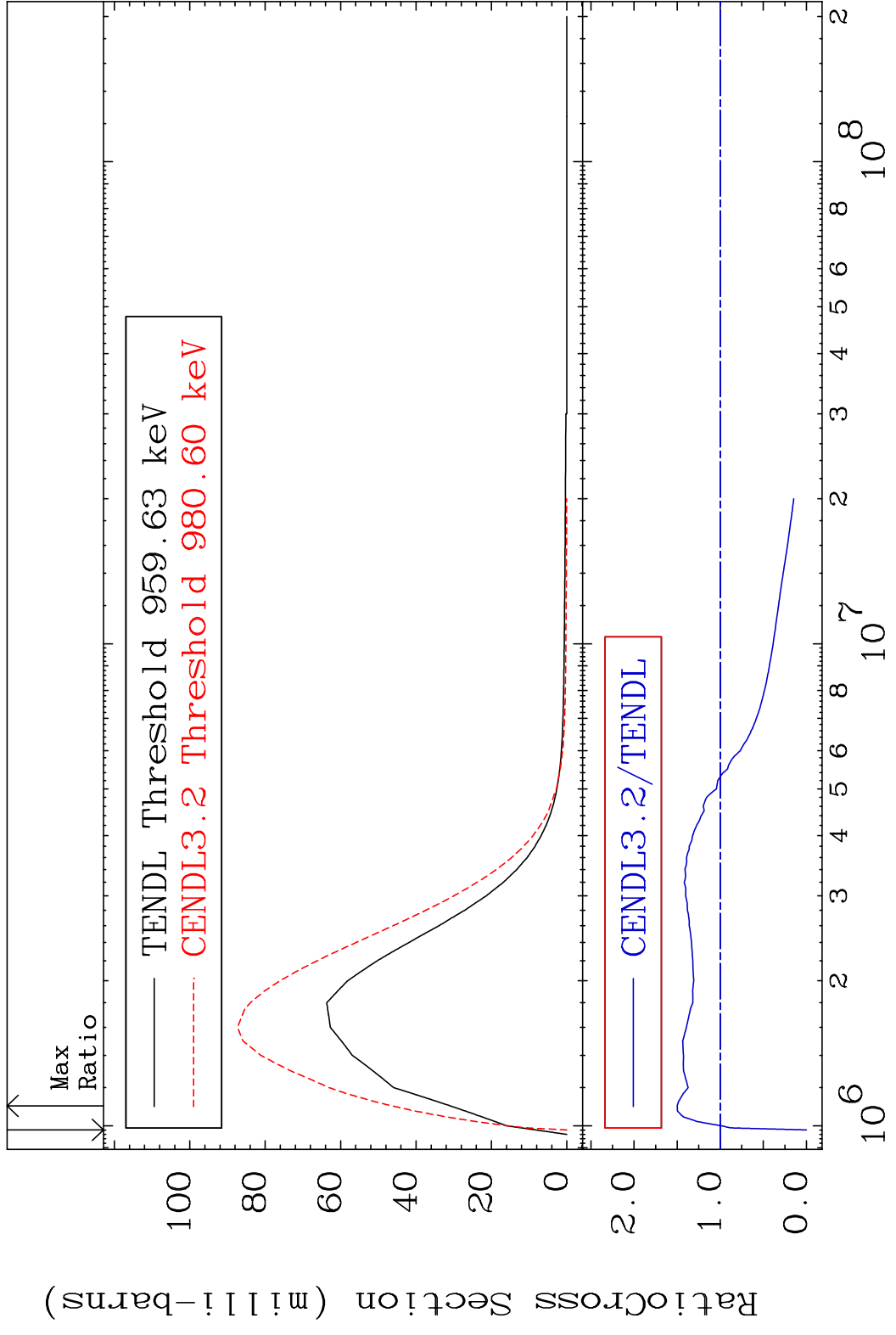


18 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 62 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 108.5 %

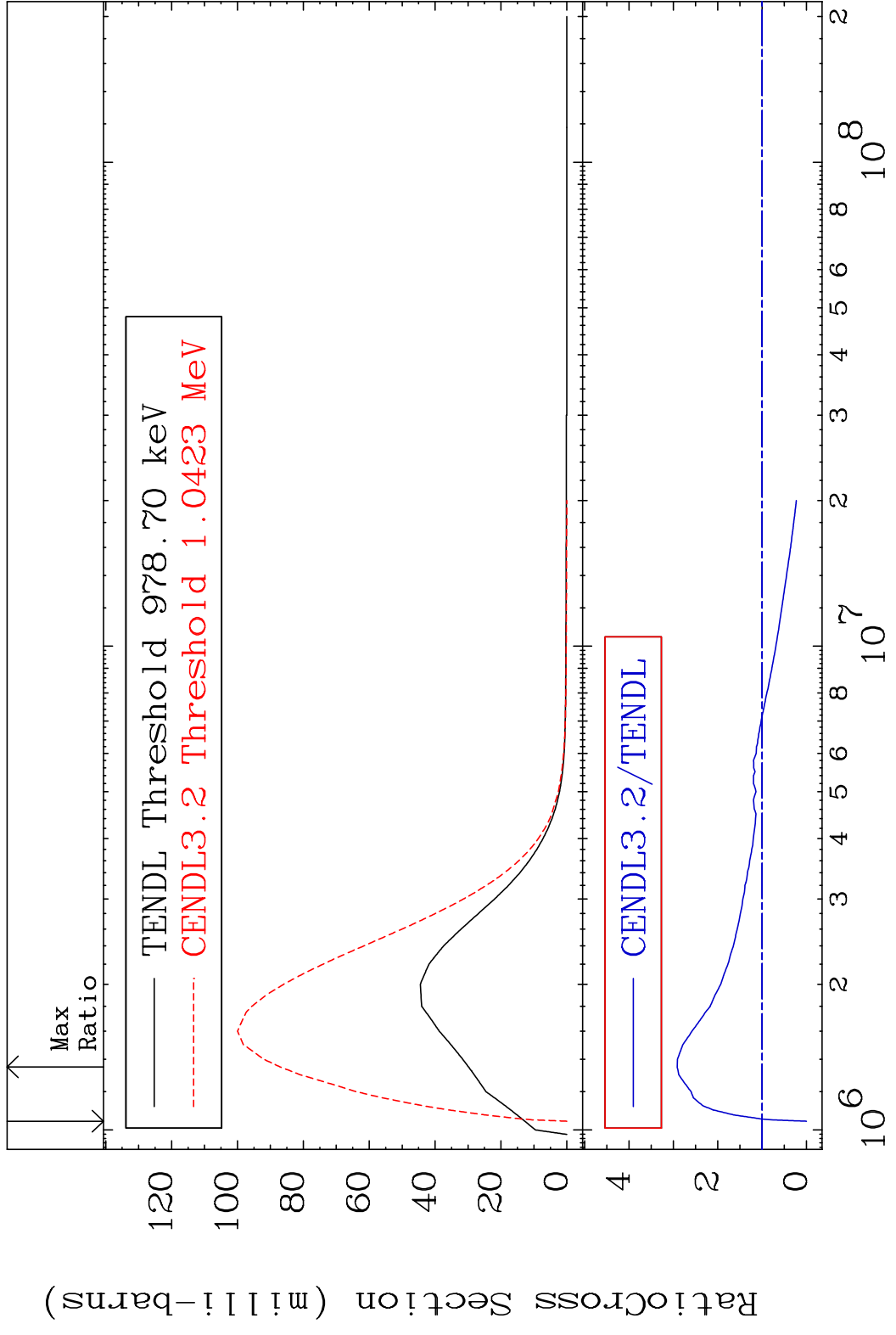


MAT 5446 MT= 63 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 49.96 %

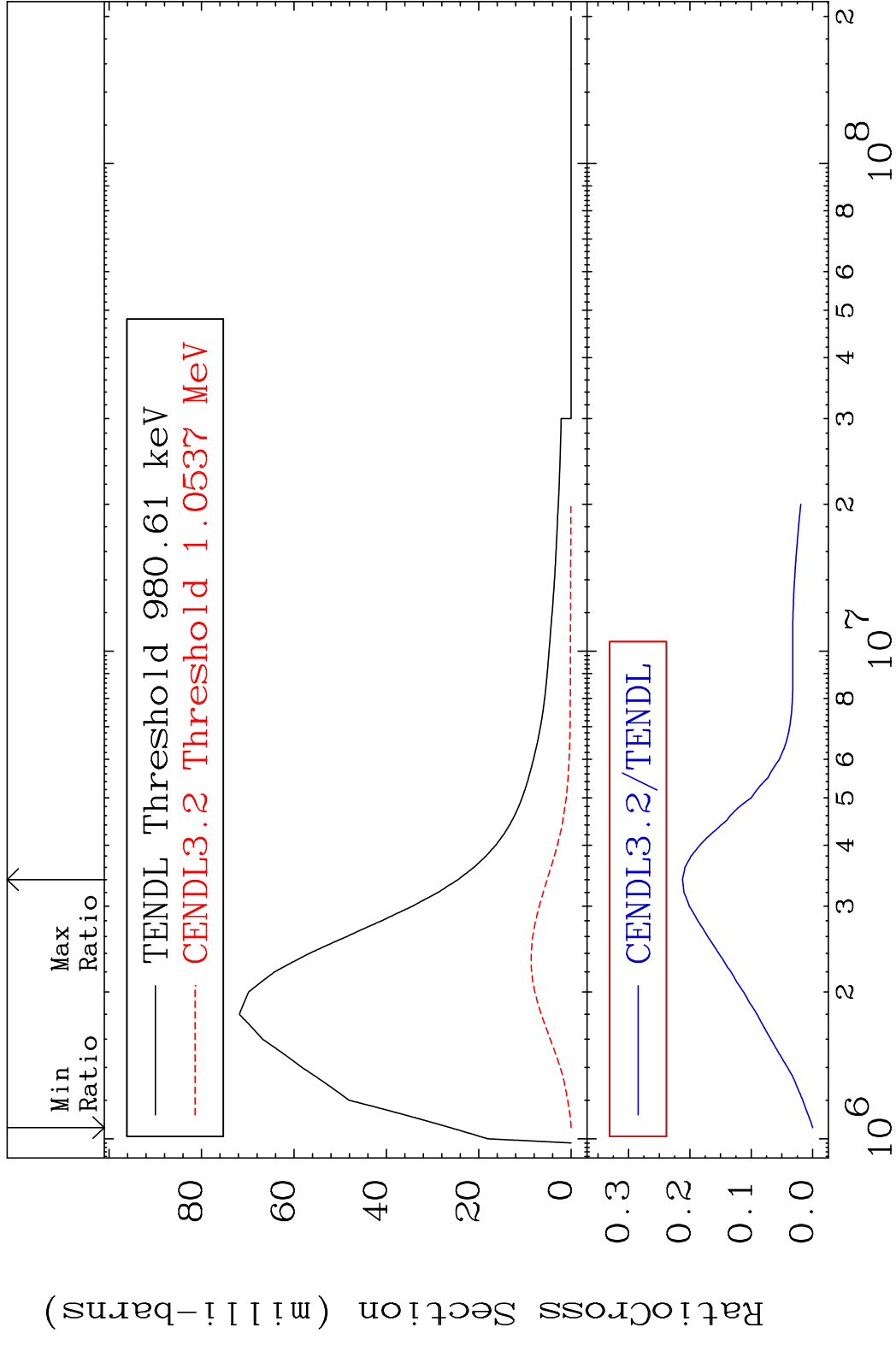


20 2 3 4 5 6 8 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 54-Xe-131

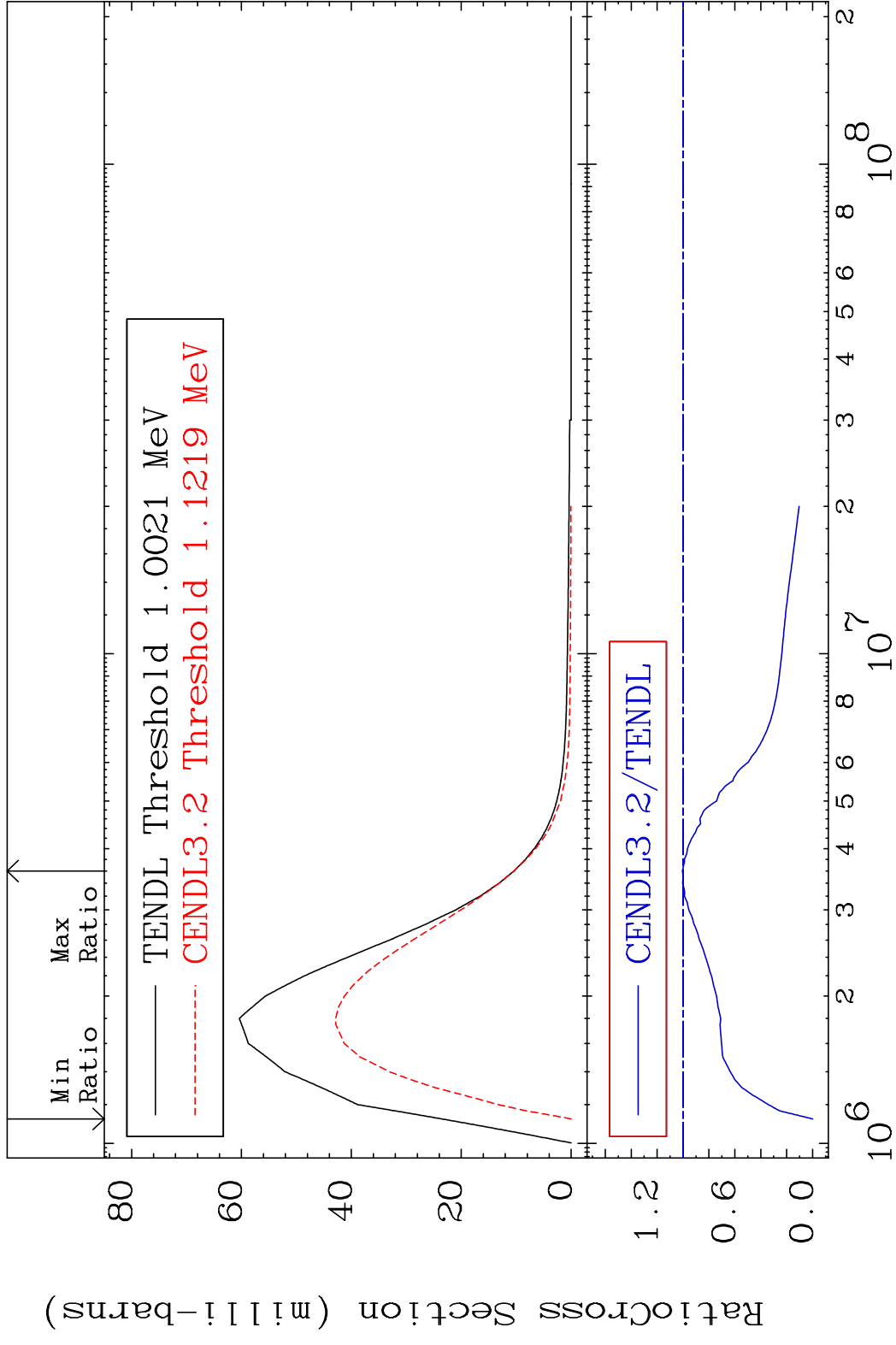
MAT 5446 MT= 64 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 191.5 %



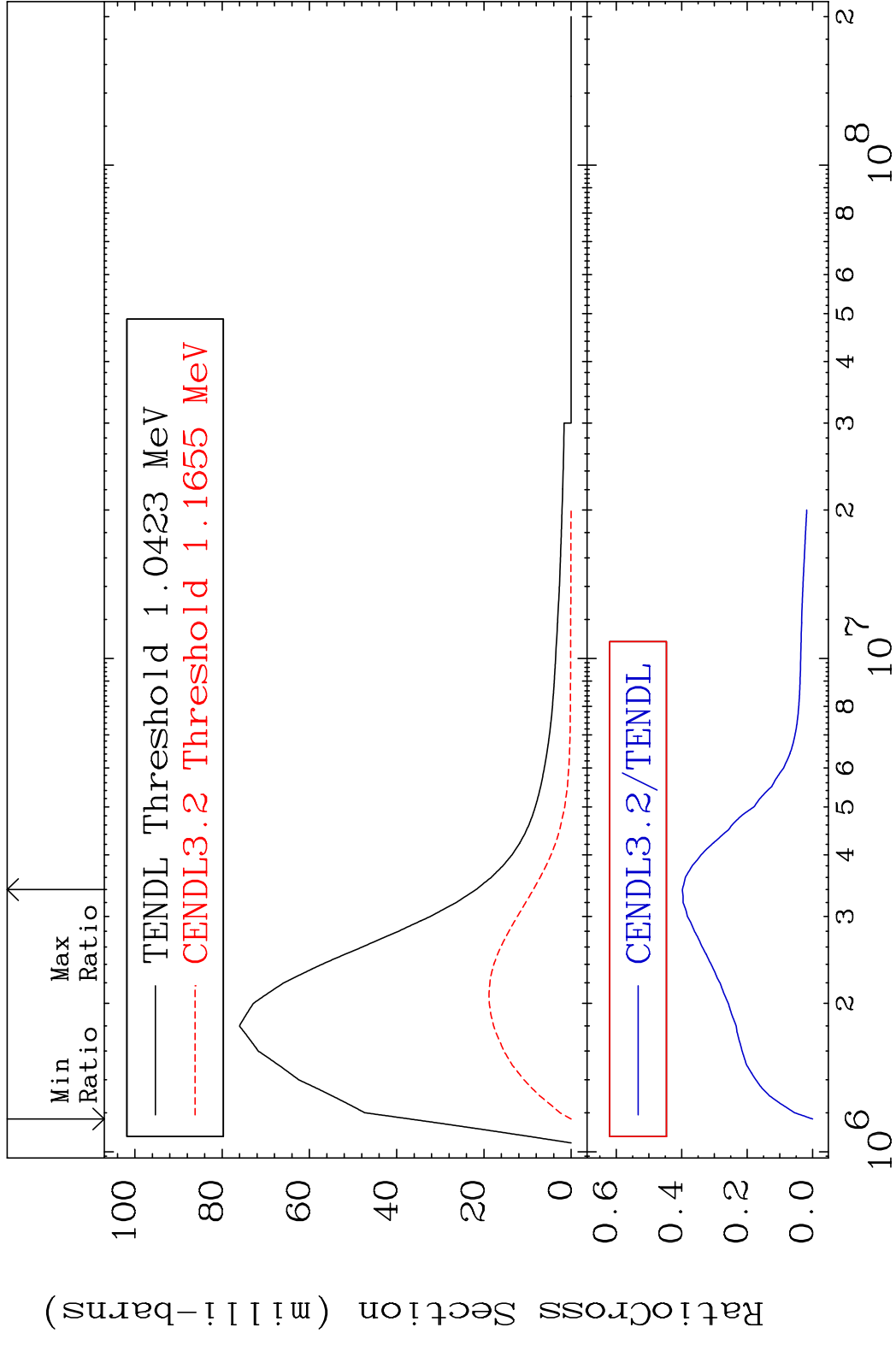
MAT 5446 MT= 65 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To -78.77%



MAT 5446 MT= 66 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 0.518 %

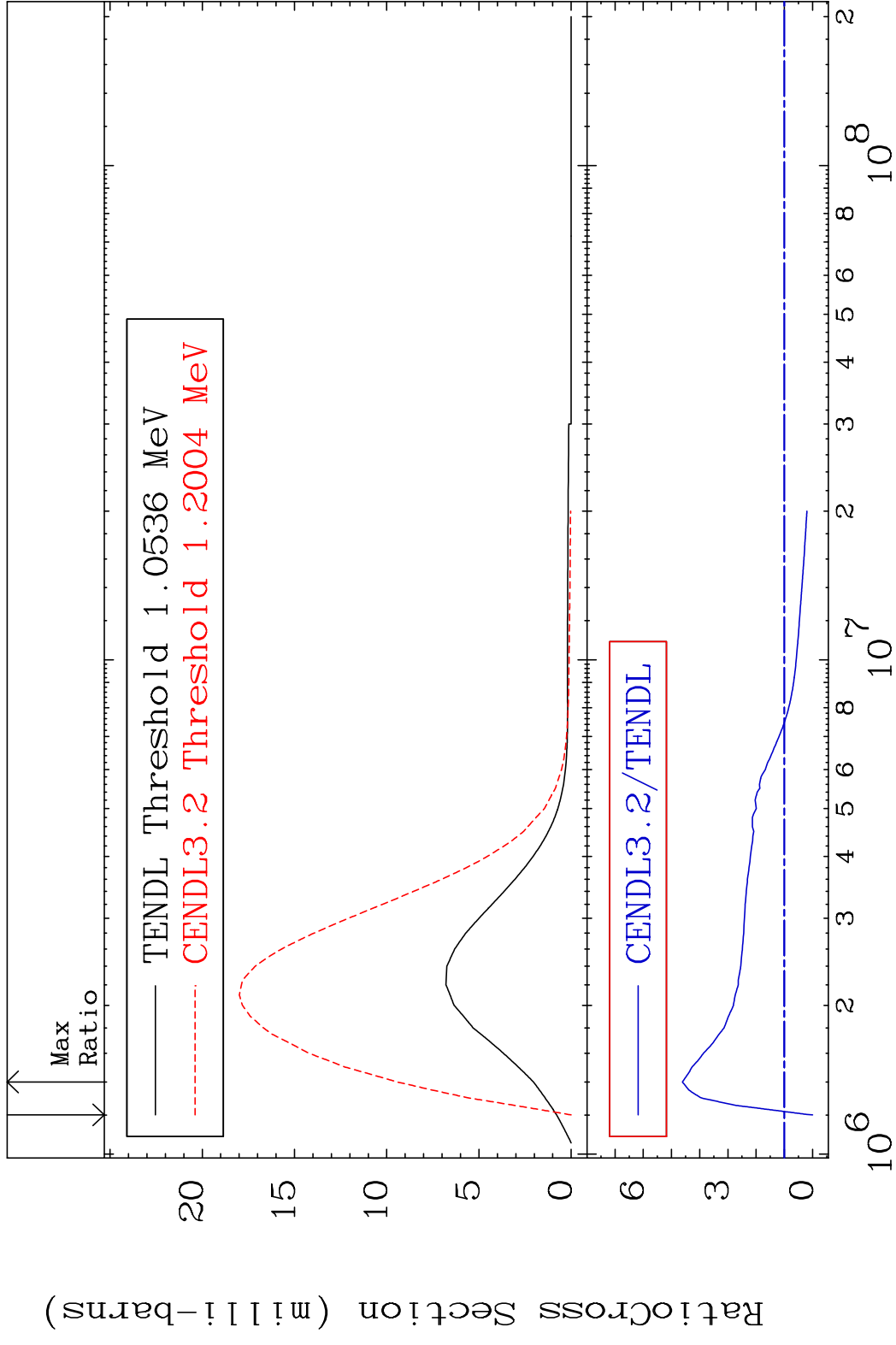


MAT 5446 MT= 67 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To -60.20%



24 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 68 (n, n') Level 54-Xe-131  
 Cross Section -100.0 To 361.4 %



25 Incident Energy (eV) 54-Xe-131

MAT 5446

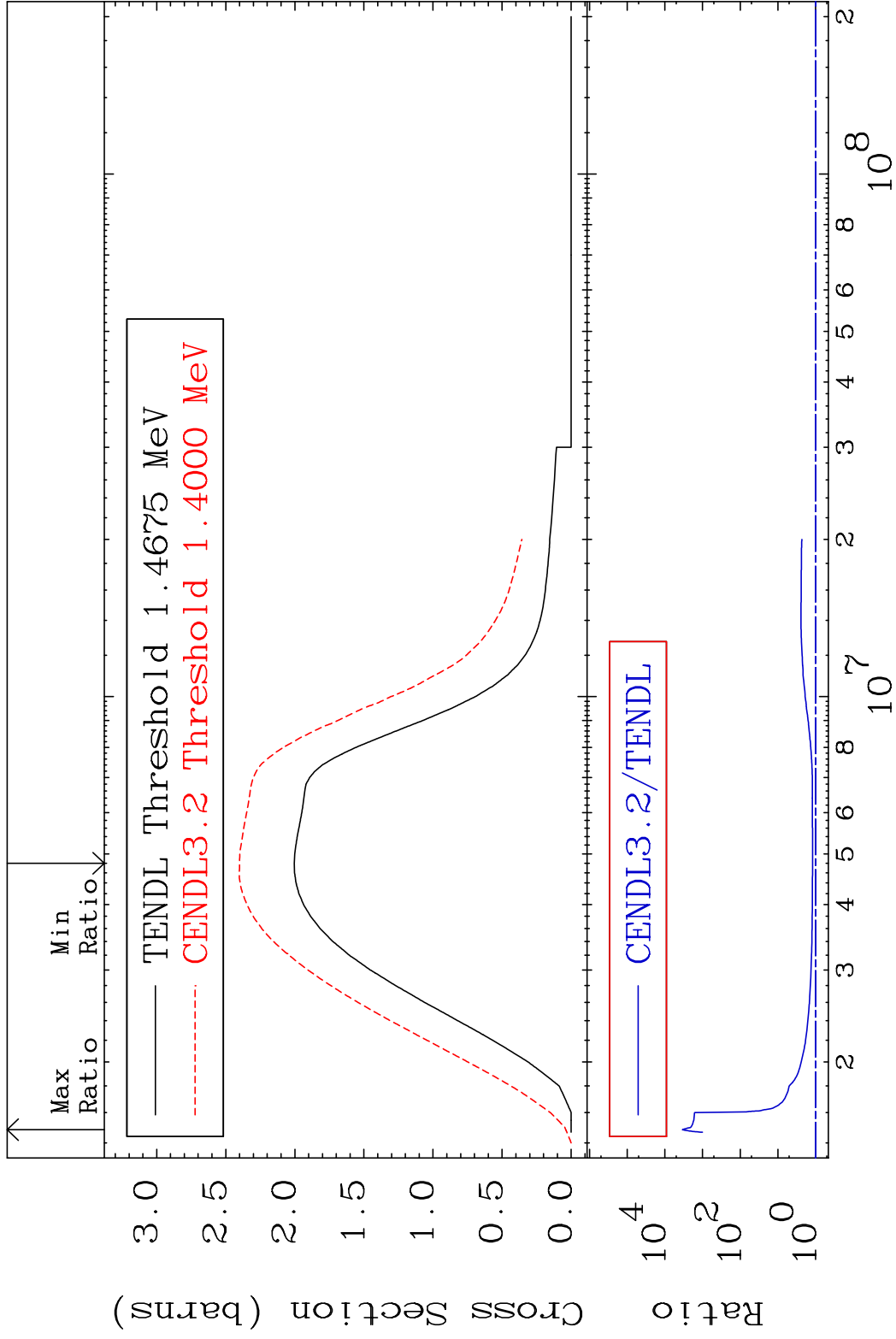
(n,n') Continuum

54-Xe-131

Cross Section

19.76

To 9999. %

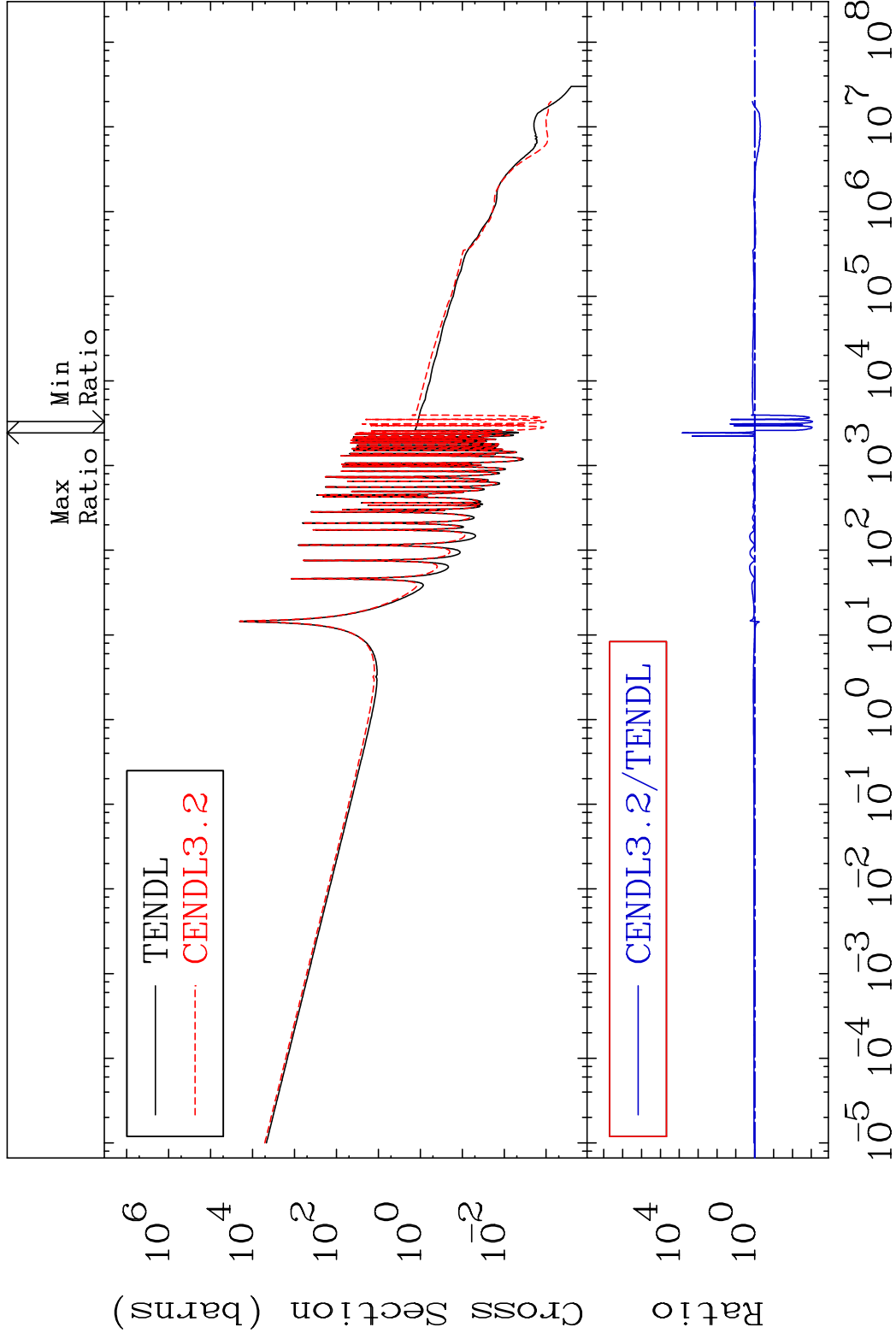


MAT 5446

(n,  $\gamma$ )

54-Xe-131

Cross Section -99.91 To 9999. %



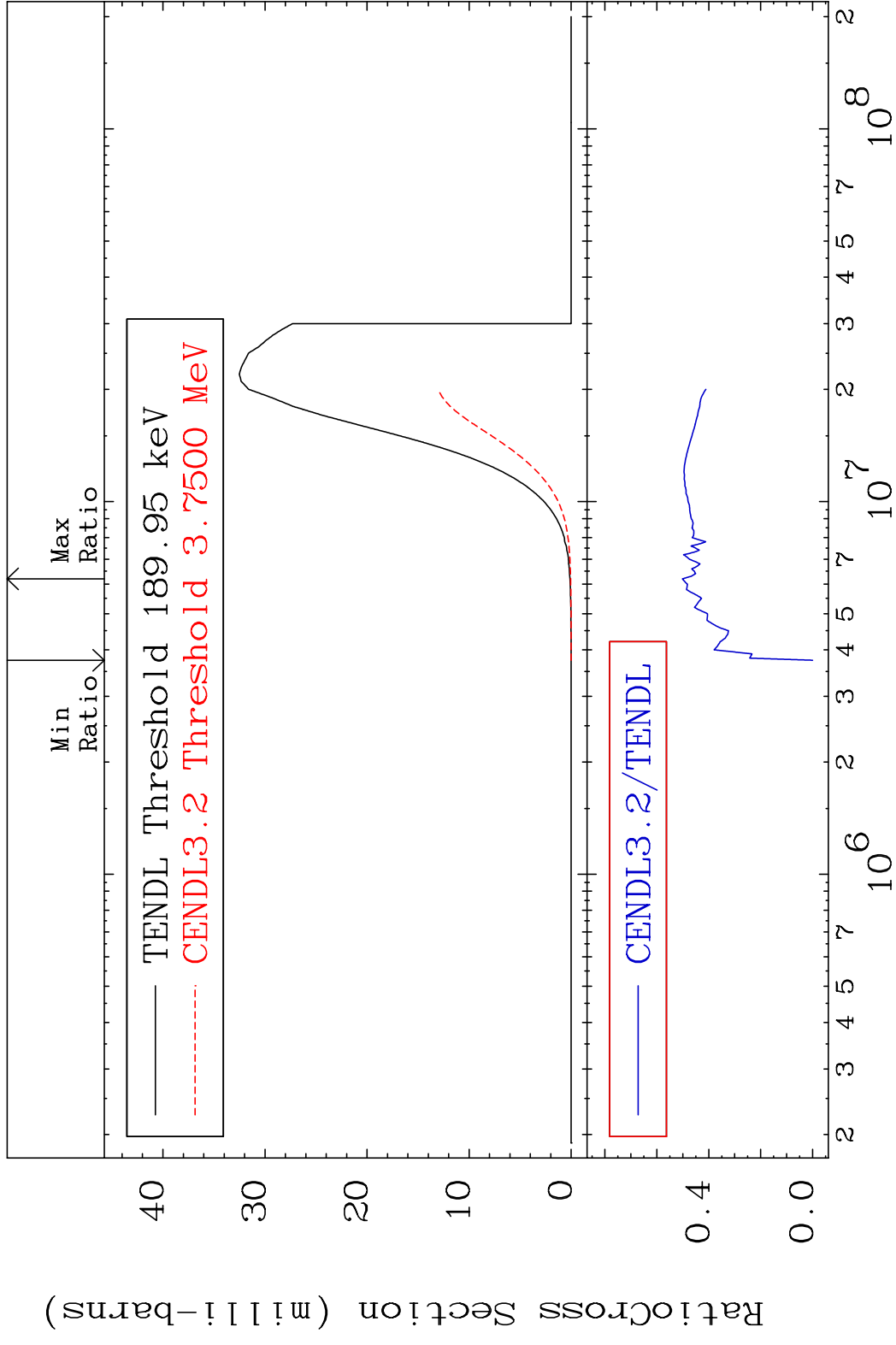
27

Incident Energy (eV)

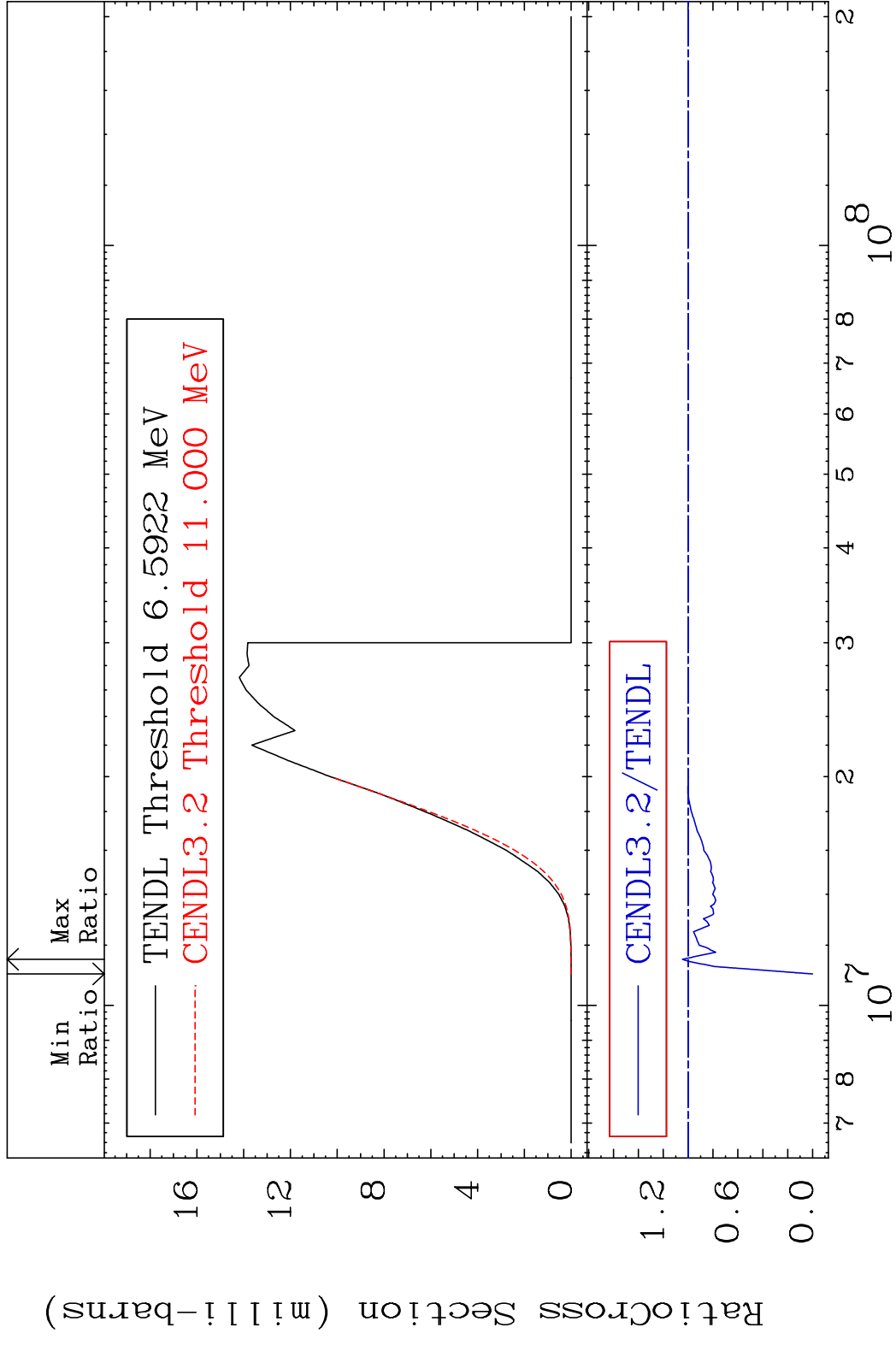
54-Xe-131

MAT 5446

(n, p) 54-Xe-131  
Cross Section -100.0 To -49.83%



MAT 5446 (n,d) 54-Xe-131  
 Cross Section -100.0 To 4.650 %

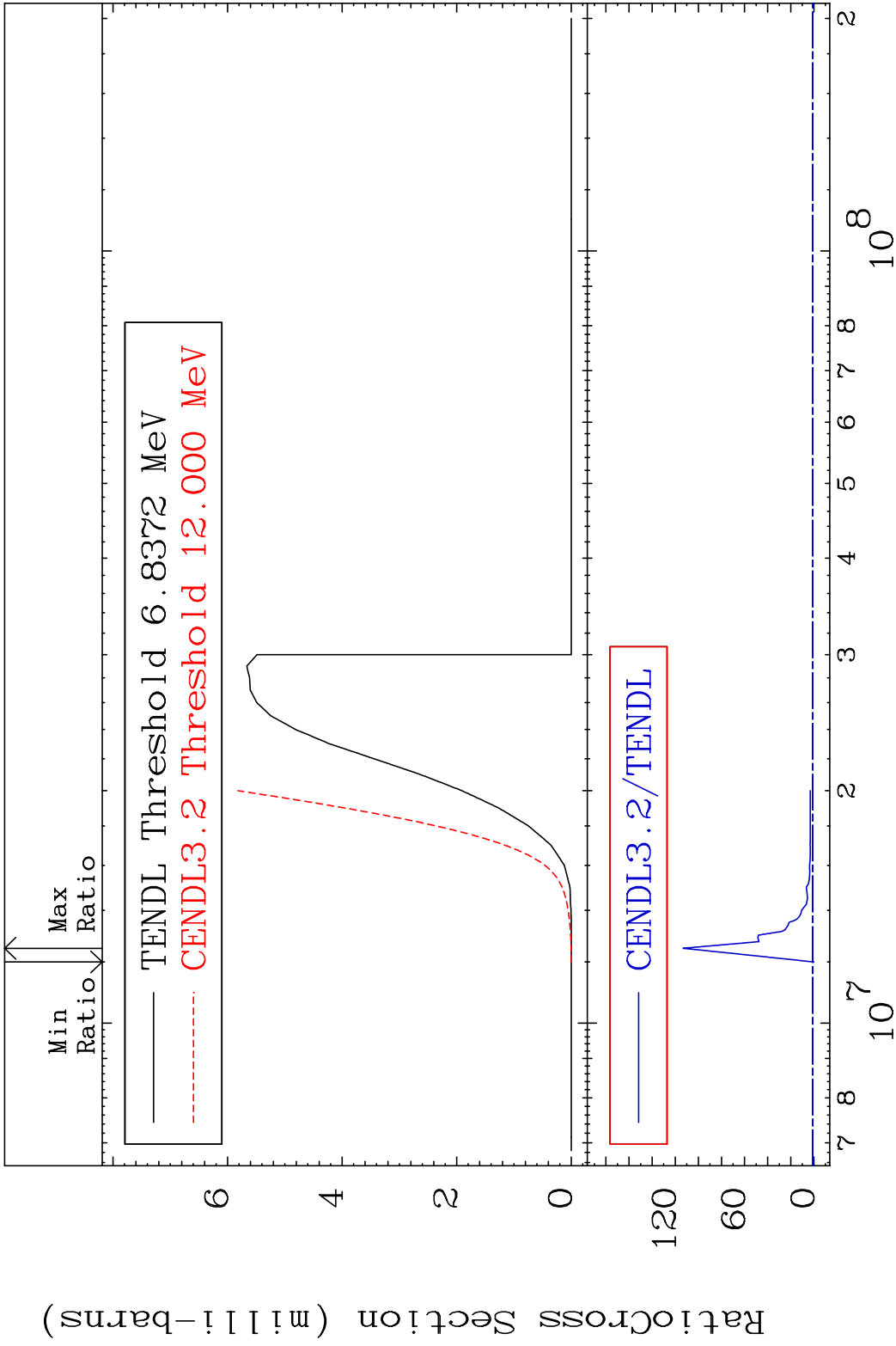


MAT 5446

(n, t)

54-Xe-131

Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

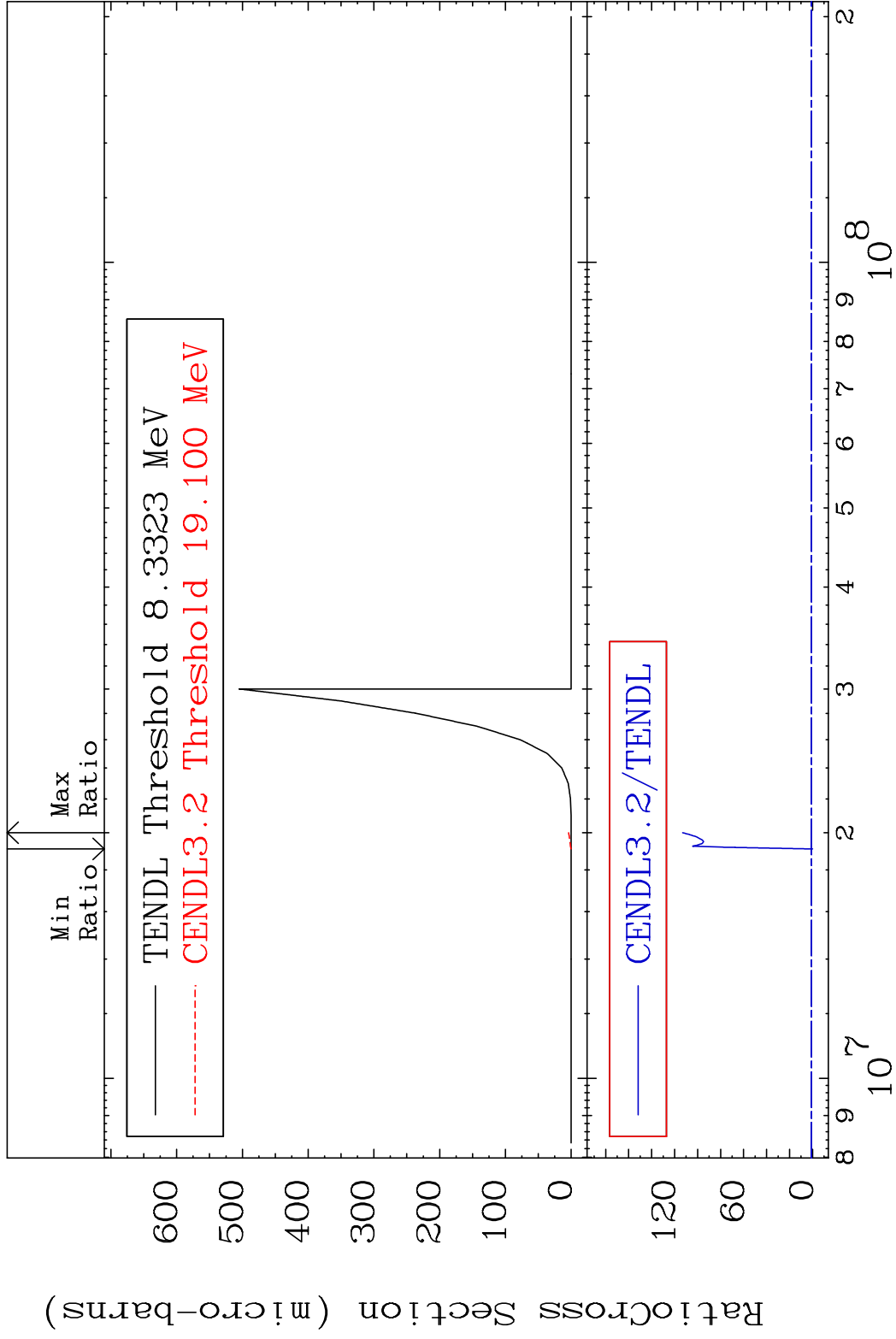
54-Xe-131

MAT 5446

(n, He-3)

54-Xe-131

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

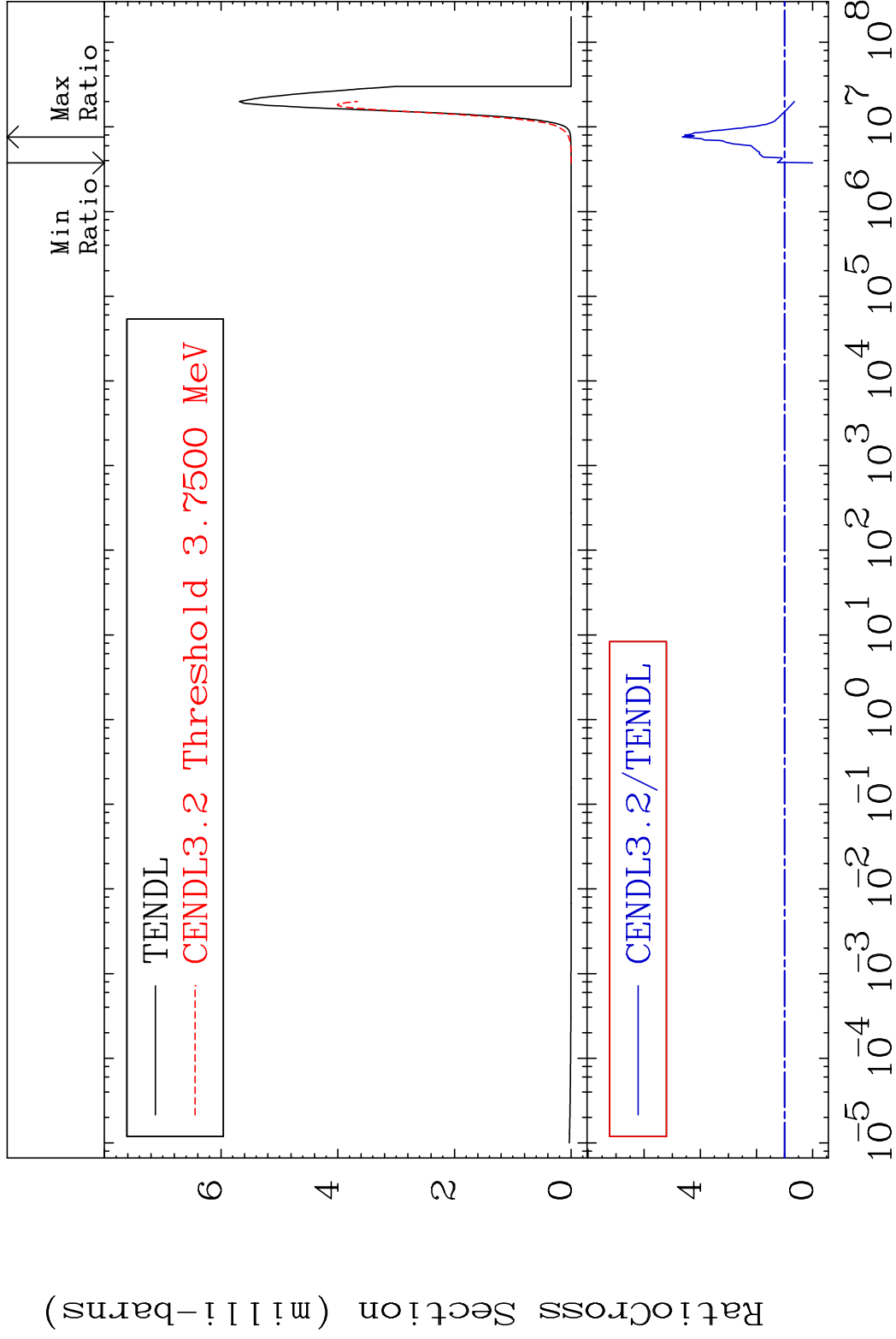
54-Xe-131

MAT 5446

(n,  $\alpha$ )

54-Xe-131

Cross Section -100.0 To 364.0 %



32

Incident Energy (eV)

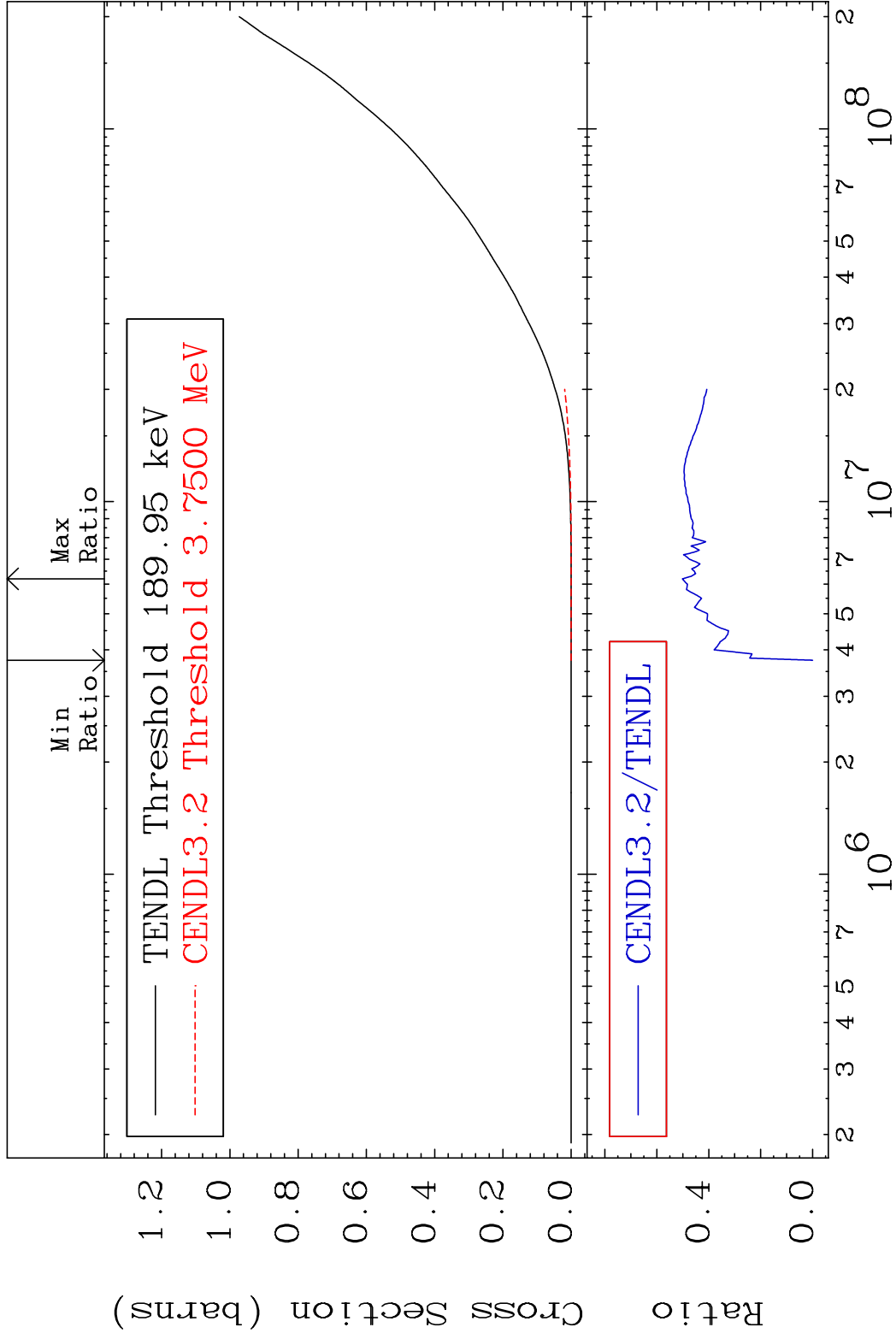
54-Xe-131

MAT 5446

Hydrogen Production

54-Xe-131

Cross Section -100.0 To -49.83%



33

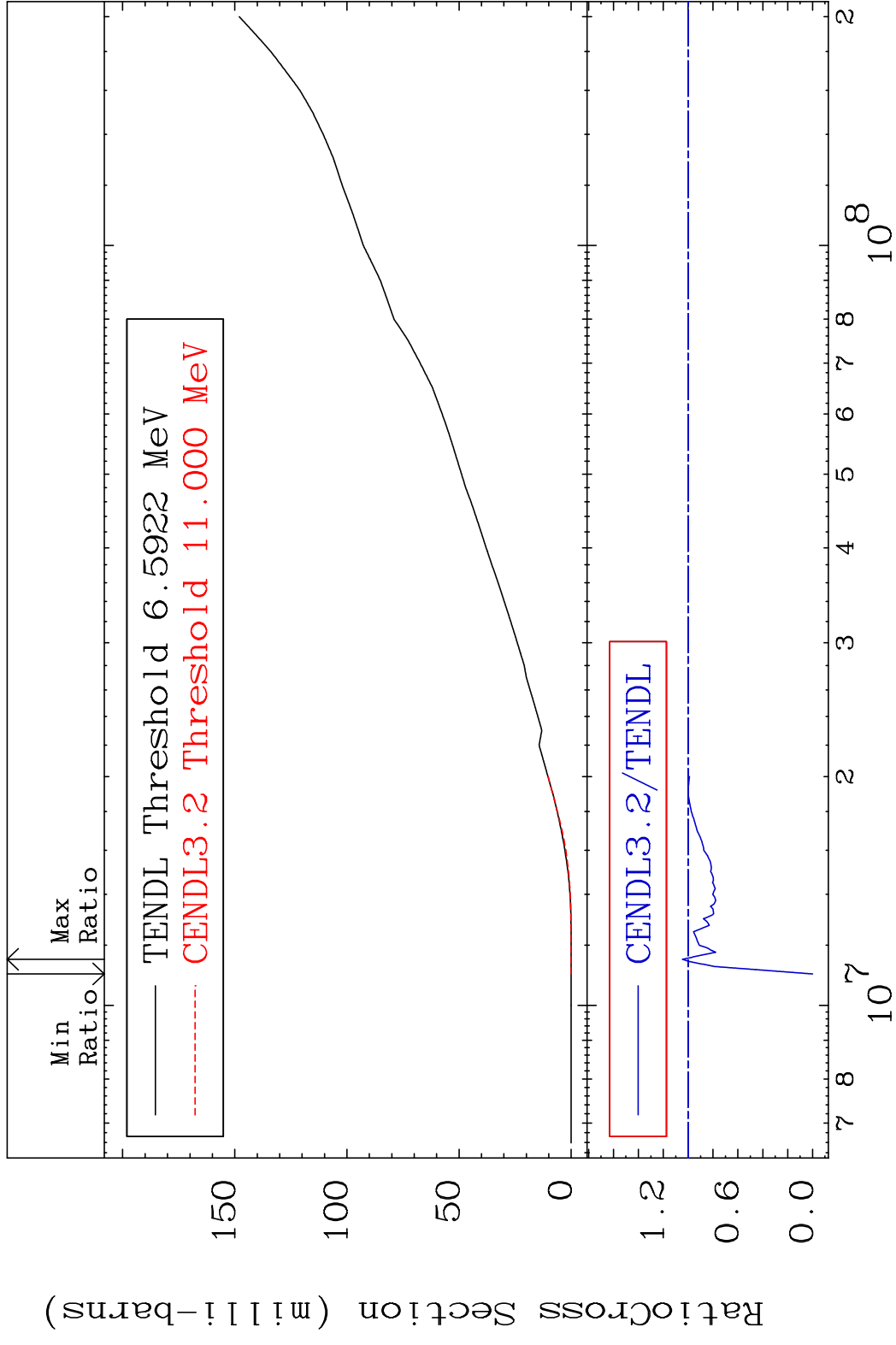
Incident Energy (eV)

54-Xe-131

MAT 5446

Deuterium Production 54-Xe-131

Cross Section -100.0 To 4.650 %



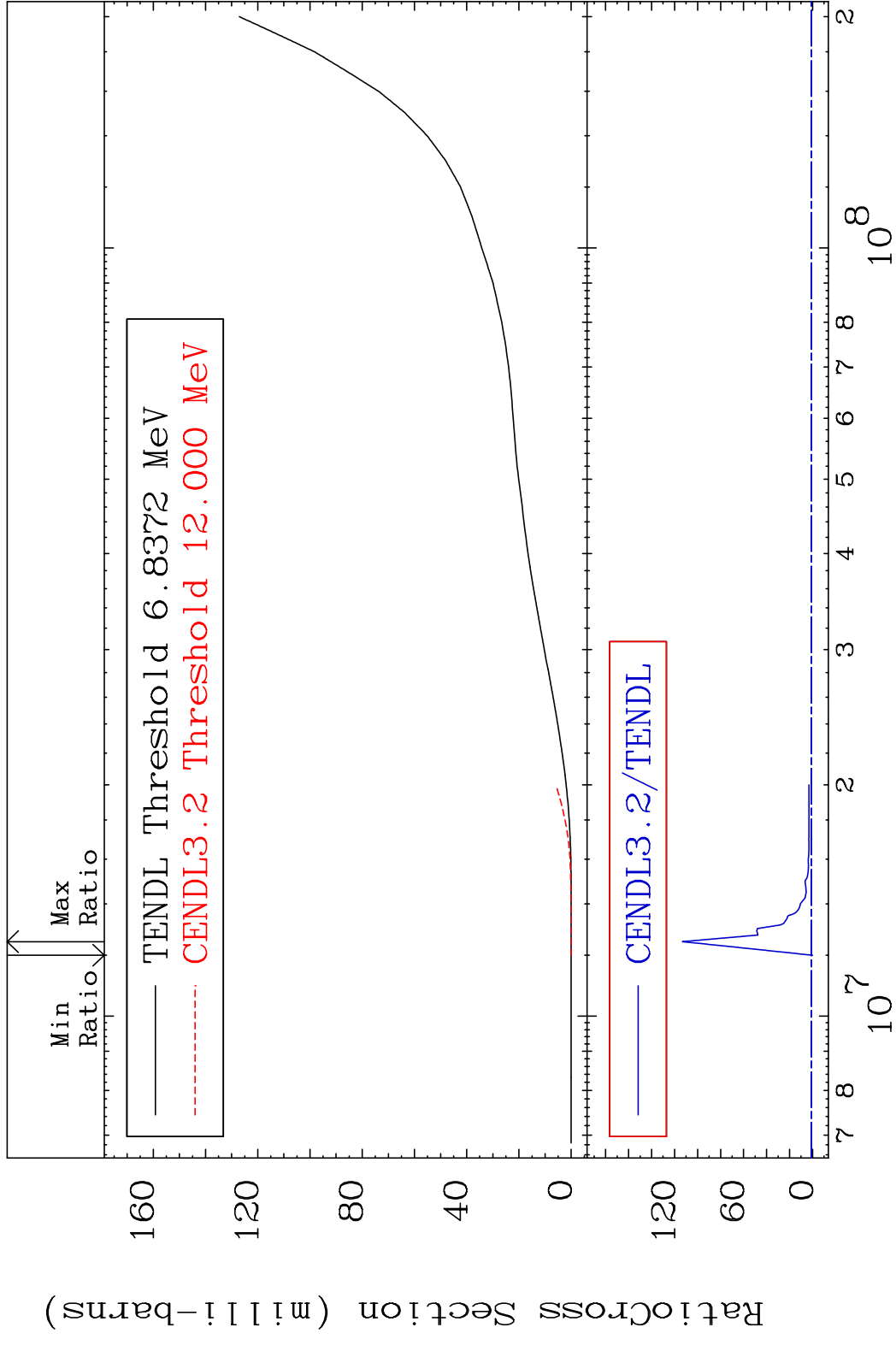
34

Incident Energy (eV)

54-Xe-131

MAT 5446

Tritium Production 54-Xe-131  
Cross Section -100.0 To 9999. %

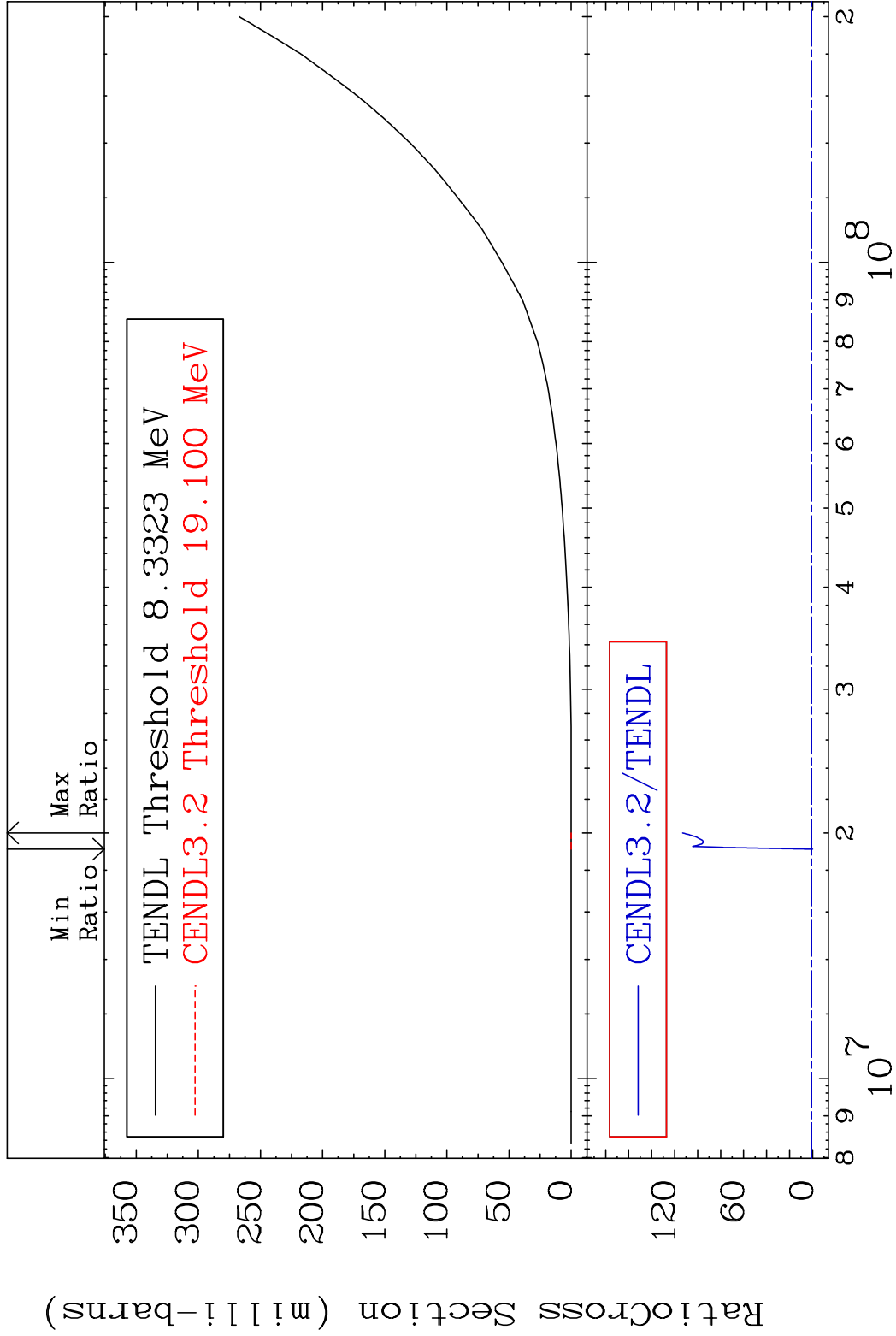


MAT 5446

He-3 Production

54-Xe-131

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

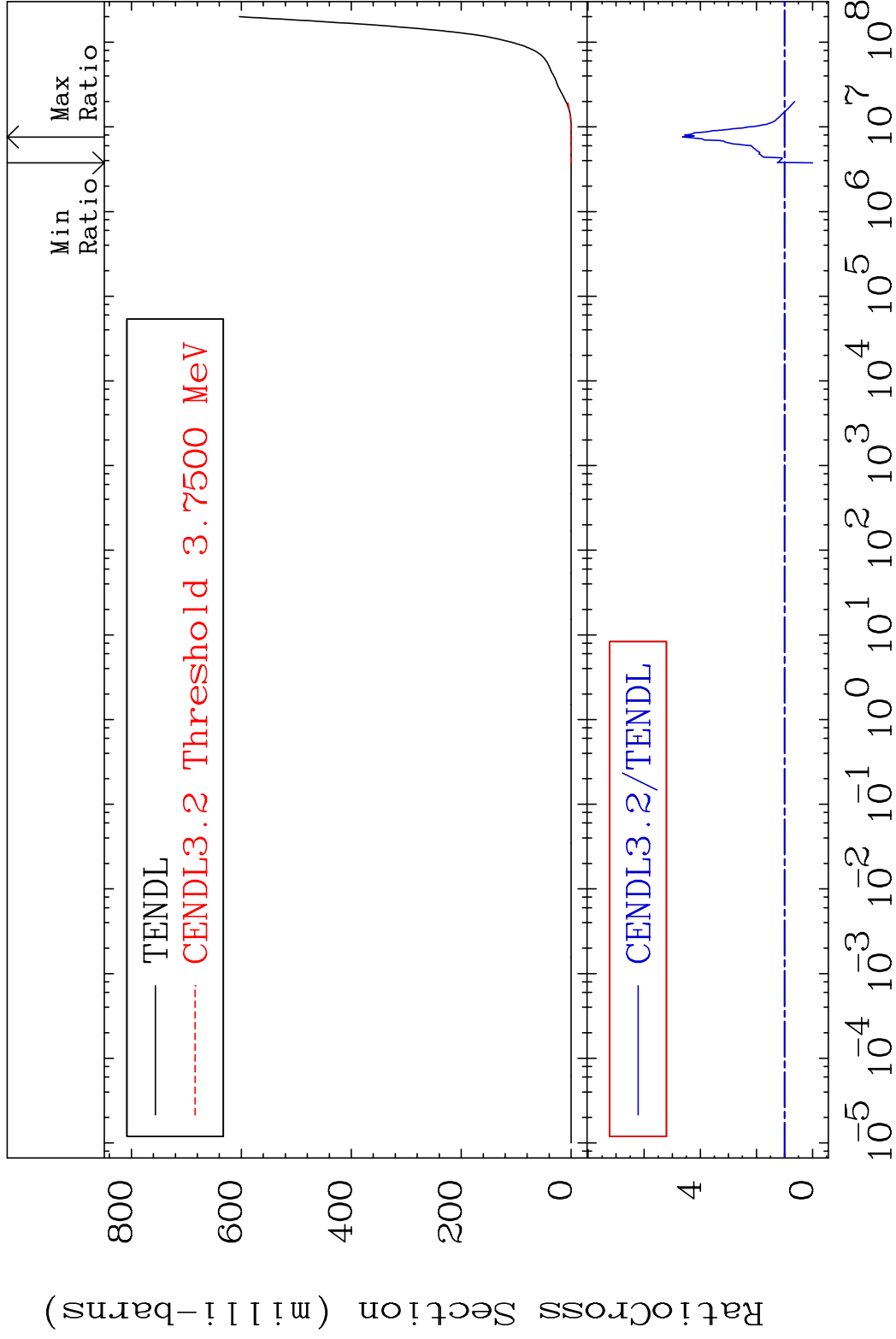
54-Xe-131

MAT 5446

He-4 Production

54-Xe-131

Cross Section -100.0 To 364.0 %

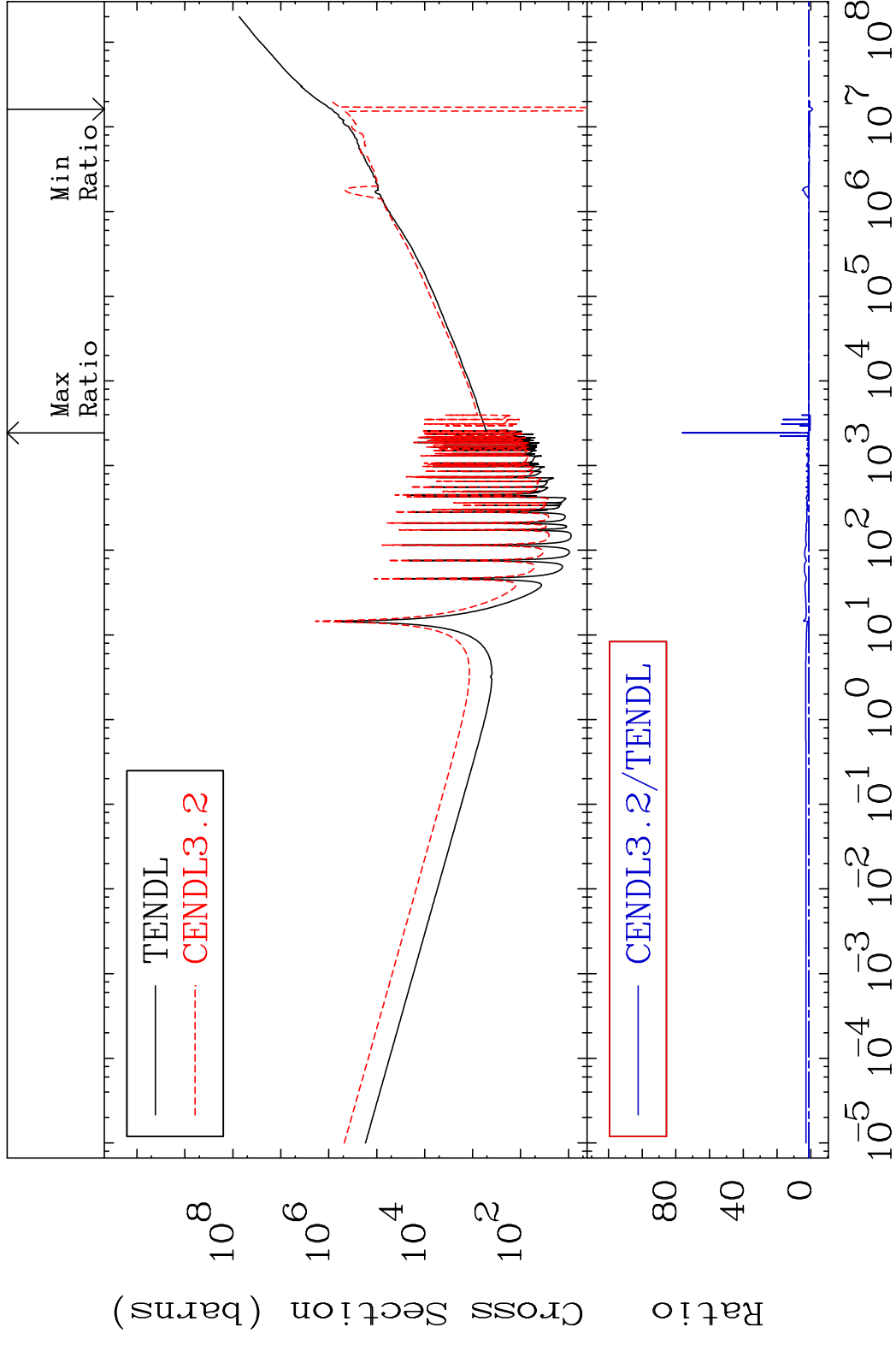


37

Incident Energy (eV)

54-Xe-131

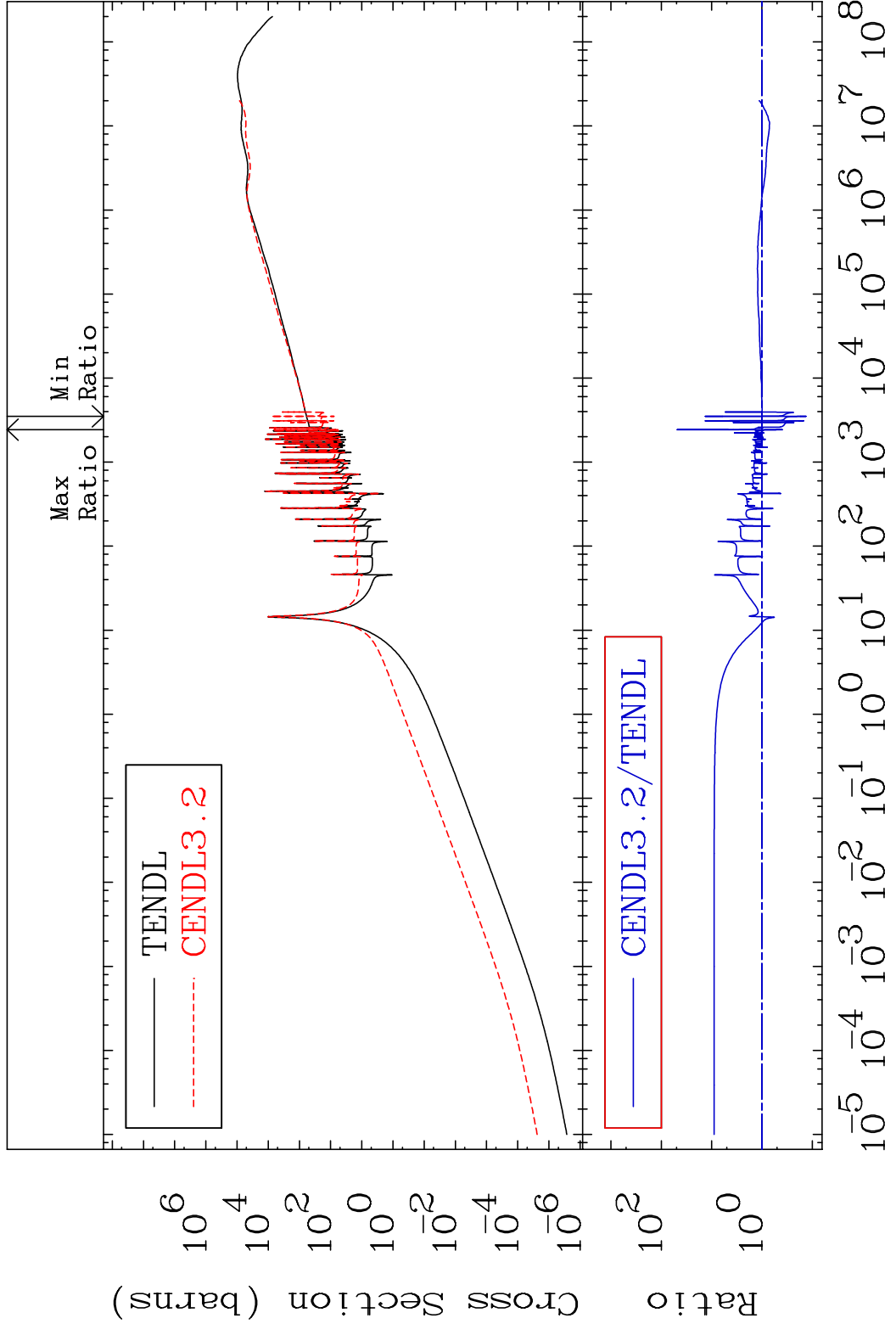
MAT 5446 Kerma total (eV-barns) 54-Xe-131  
 Cross Section -209.5 To 7516. %



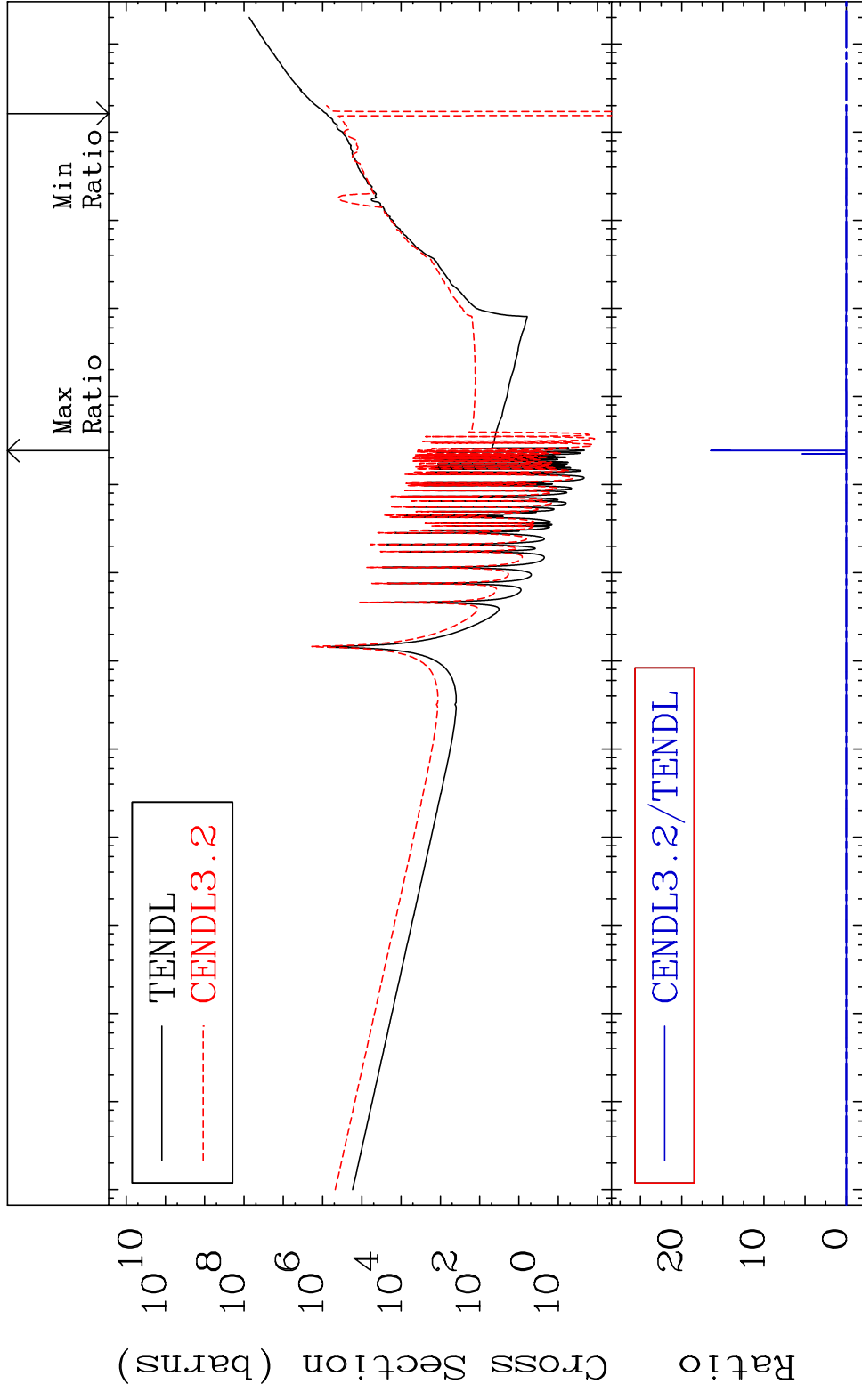
38 Incident Energy (eV) 54-Xe-131

MAT 5446

Kerma elastic Cross Section -86.93 To 4737. %  
54-Xe-131

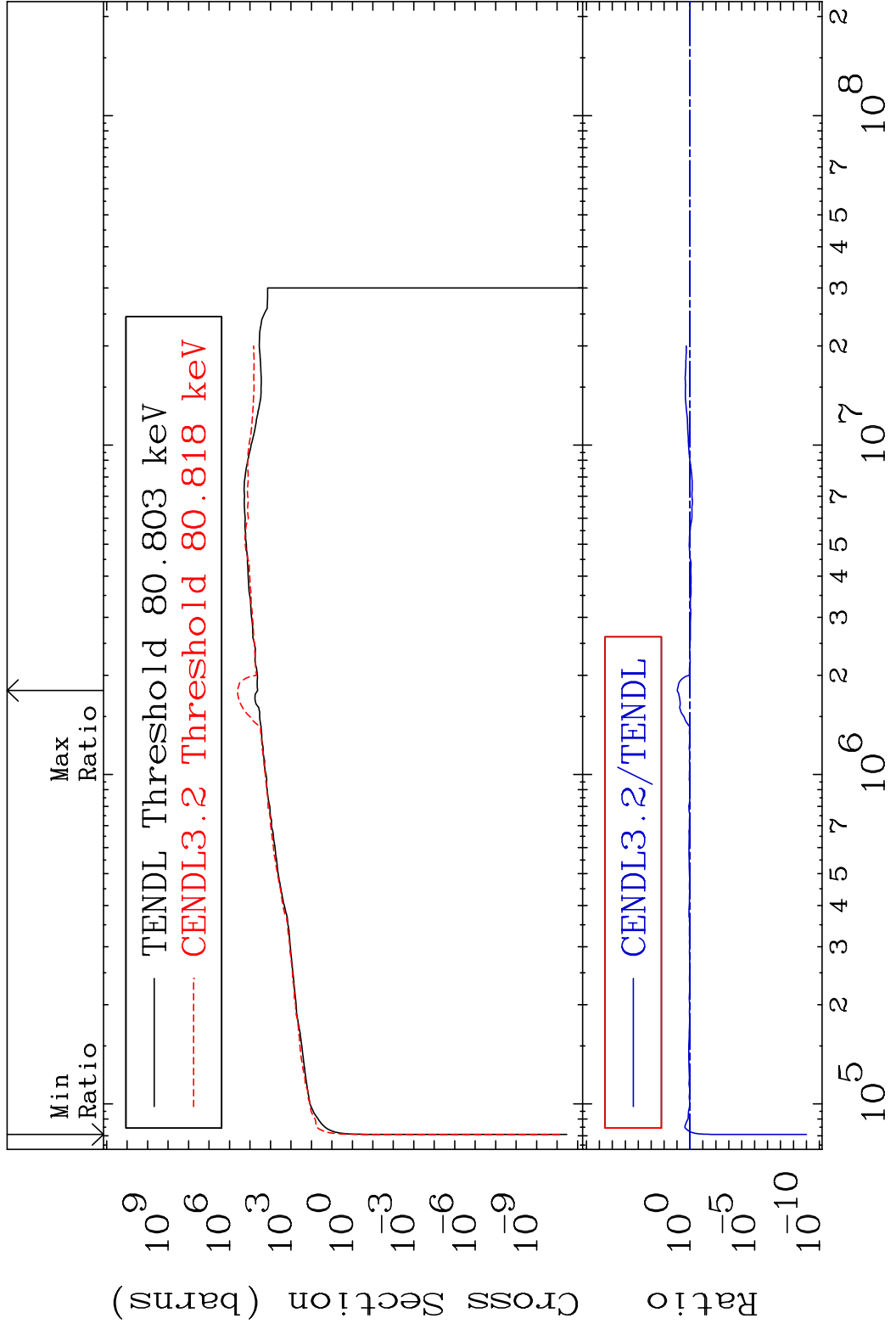


MAT 5446 Kerma non-elastic (all but mt2) 54-Xe-131  
 Cross Section -226.7 To 9999. %

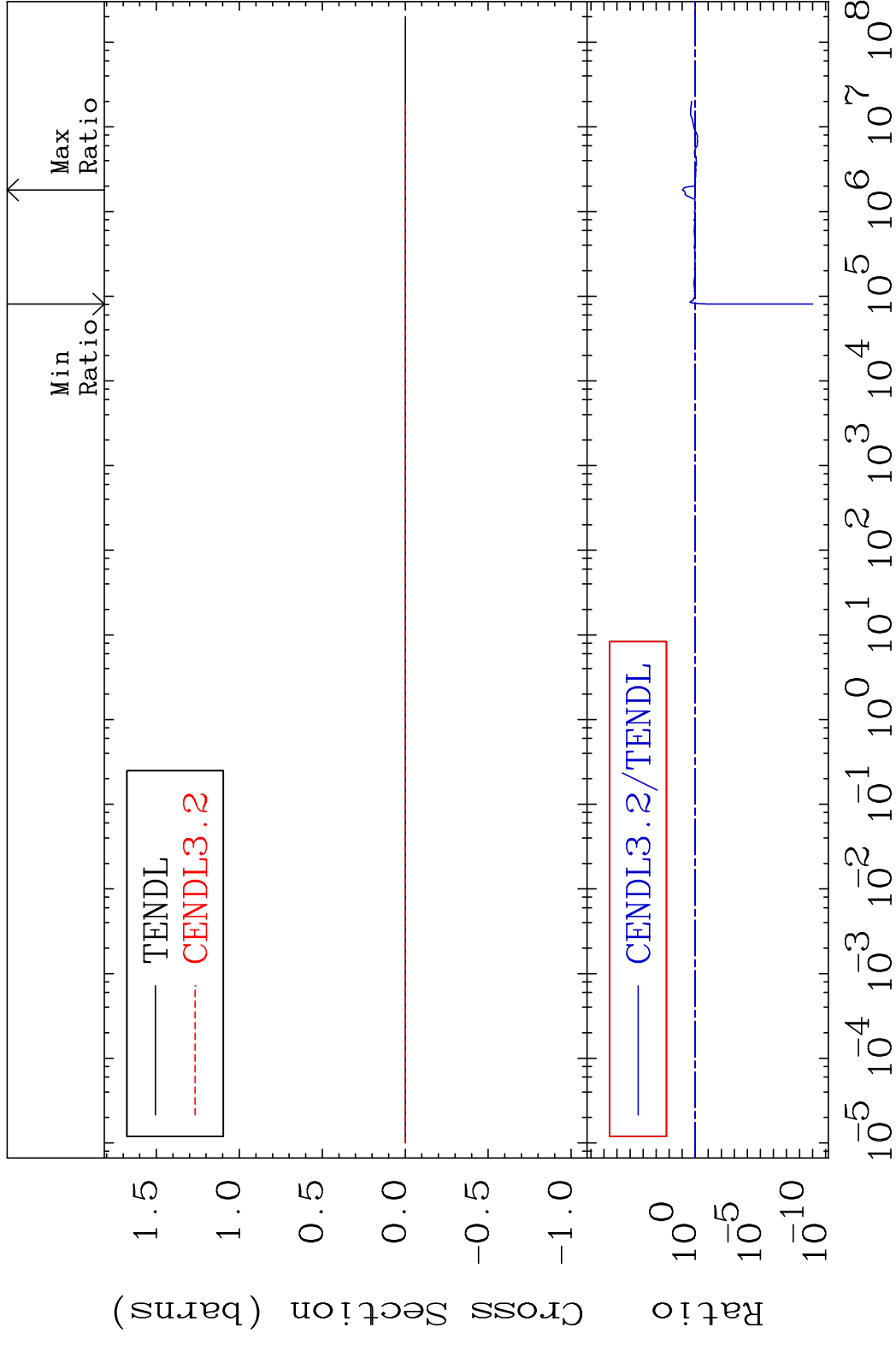


40 Incident Energy (eV) 54-Xe-131

MAT 5446 Kerma inelastic (mt51-91) 54-Xe-131  
 Cross Section -100.0 To 872.9 %



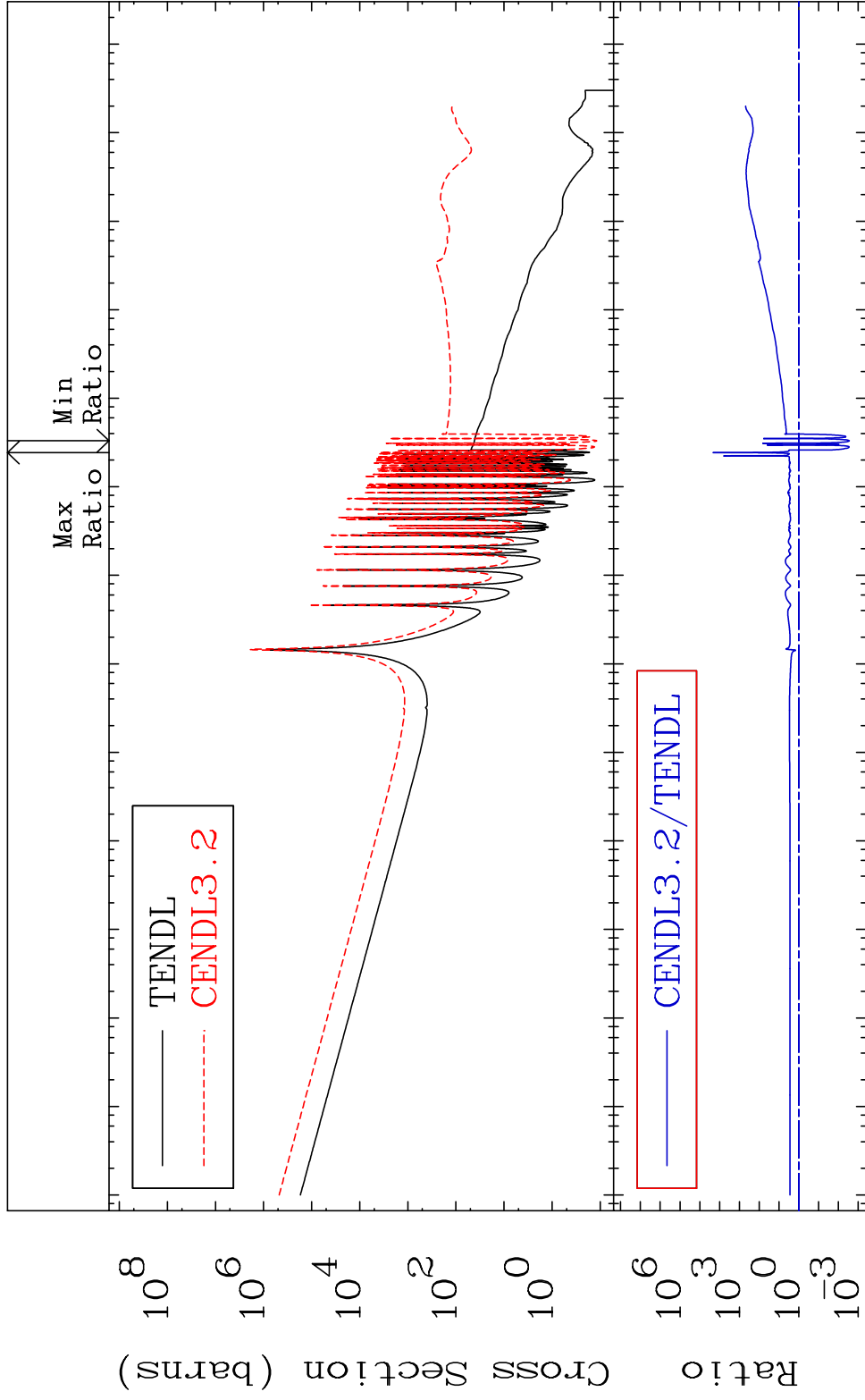
MAT 5446 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-131  
 Cross Section -100.0 To 872.9 %



MAT 5446

Kerma capture (mt102) 54-Xe-131

Cross Section -99.72 To 9999. %



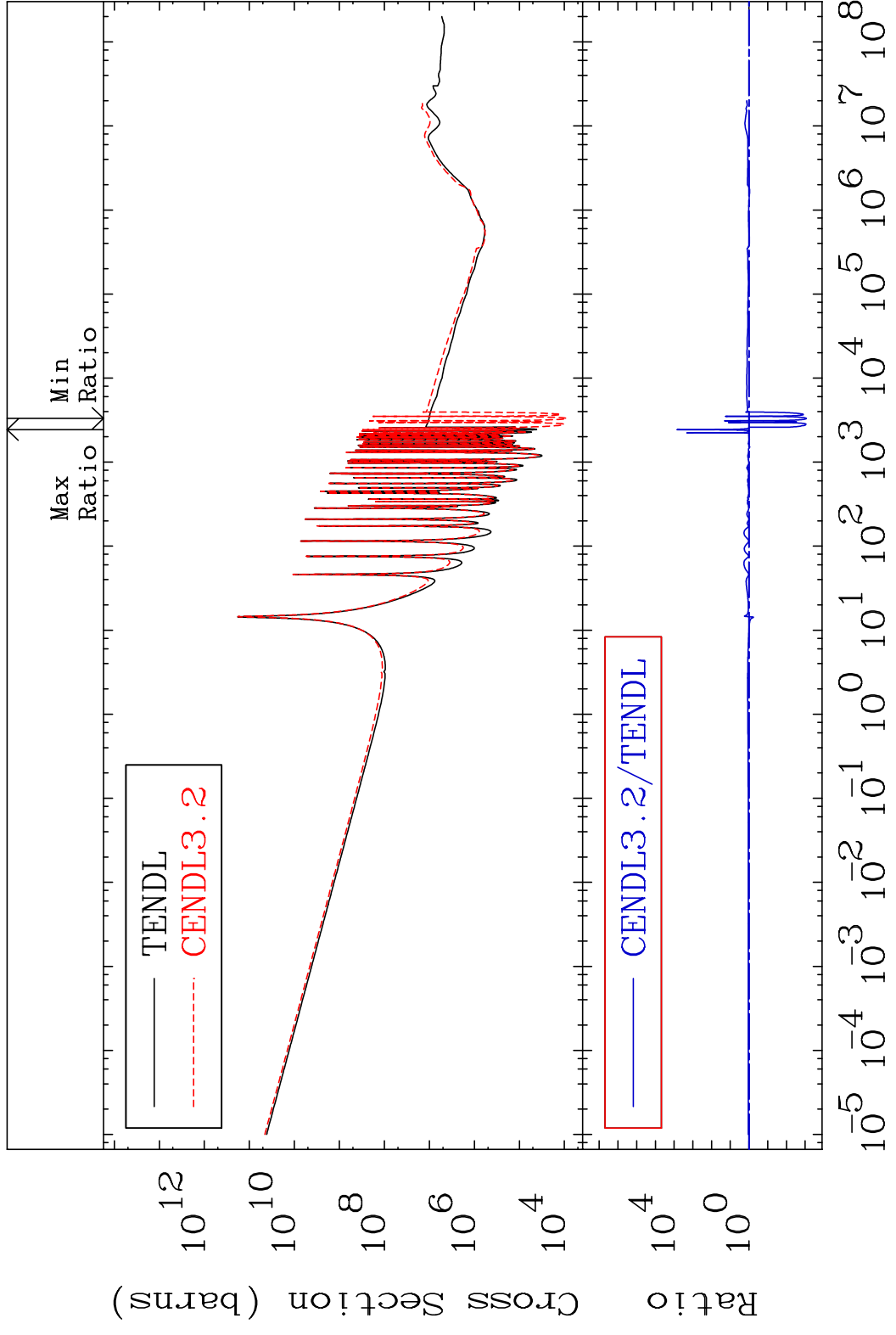
43

Incident Energy (eV)

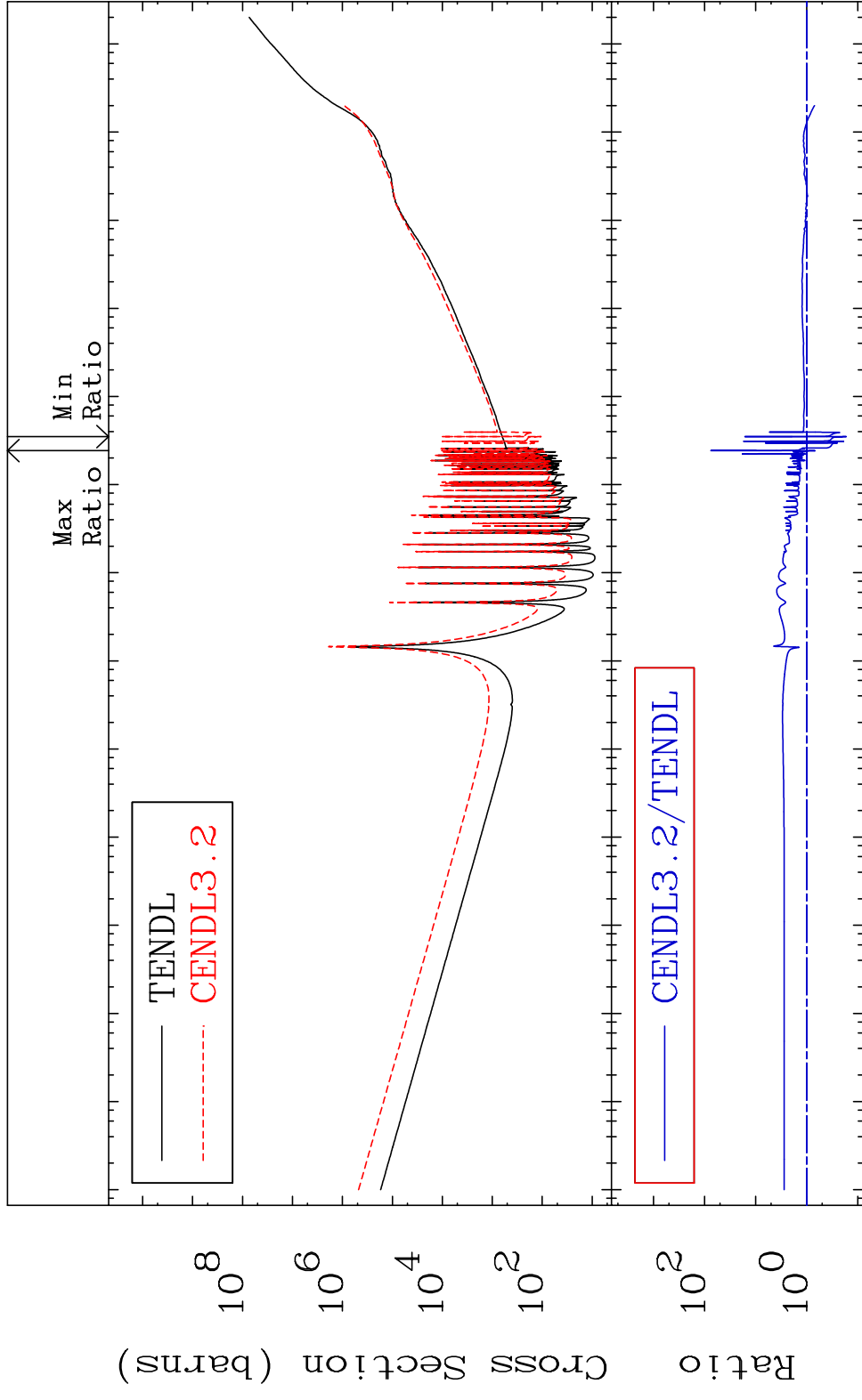
54-Xe-131

MAT 5446

Total photon (eV-barns) 54-Xe-131  
Cross Section -99.91 To 9999. %



MAT 5446 Total kinematic kerma (high limit) 54-Xe-131  
Cross Section -83.16 To 7516. %

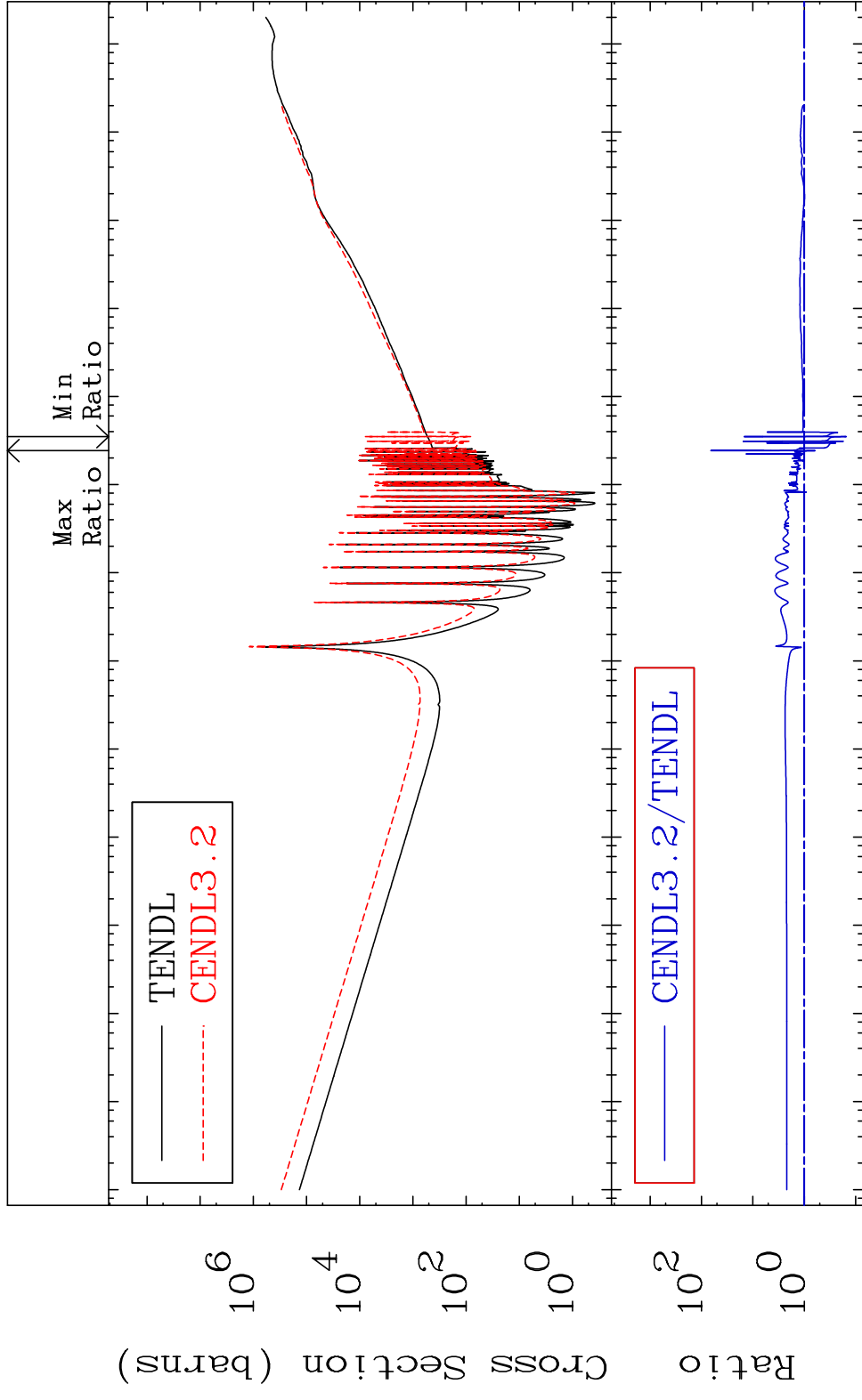


MAT 5446

Dpa total (eV-barns)

54-Xe-131

Cross Section -84.86 To 6517. %



46

Incident Energy (eV)

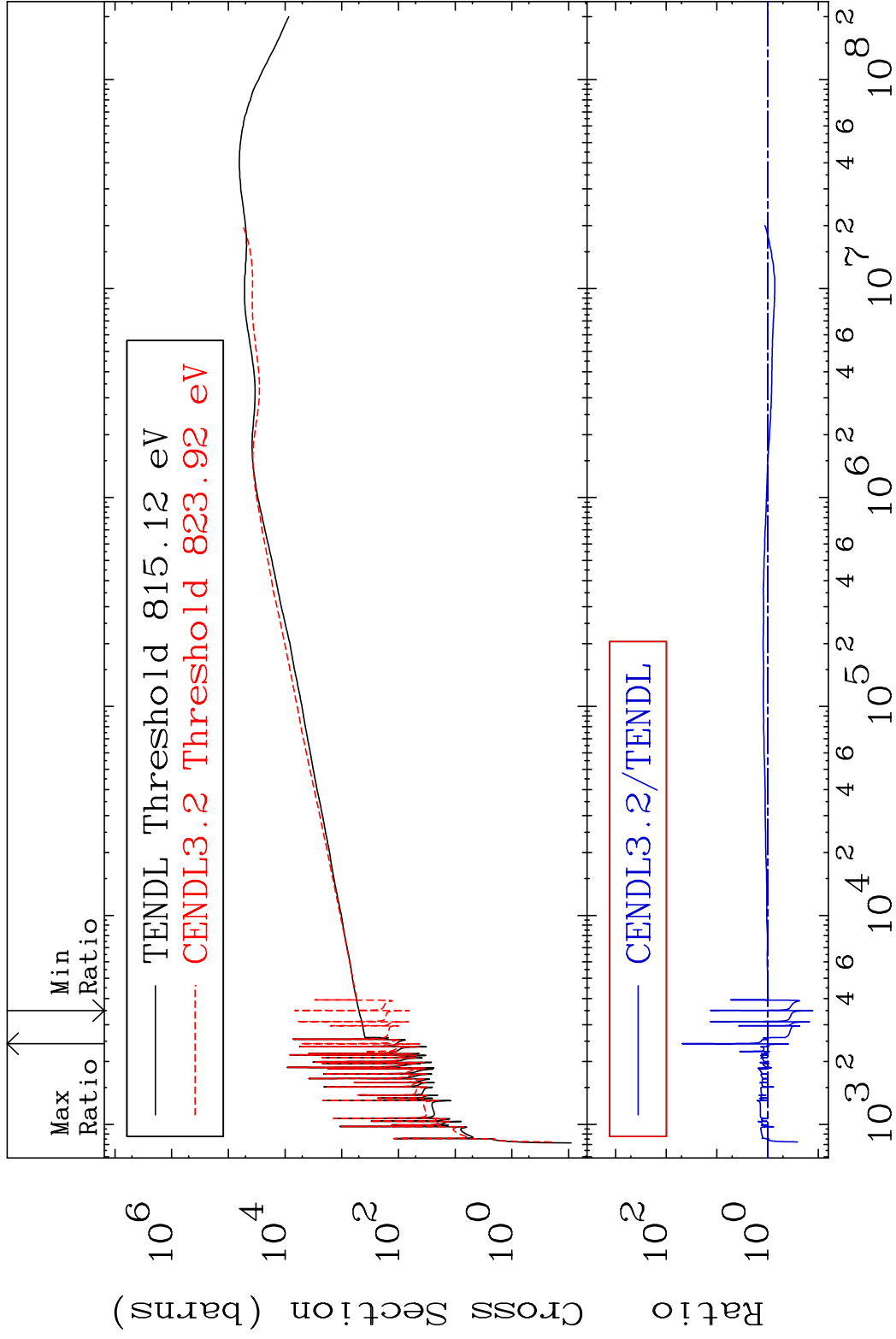
54-Xe-131

MAT 5446

Dpa elastic (mt2)

54-Xe-131

Cross Section -86.99 To 4708. %

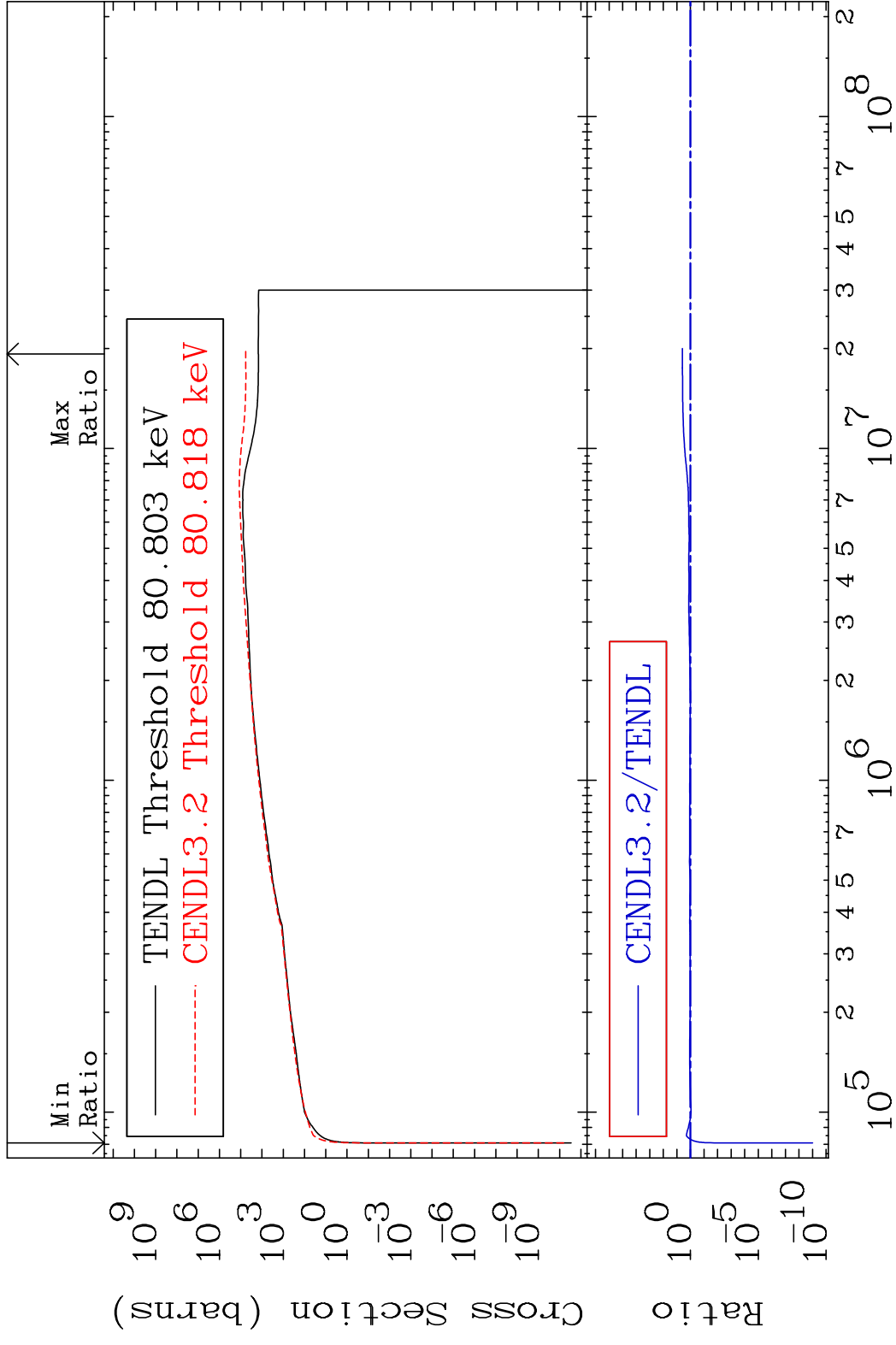


47

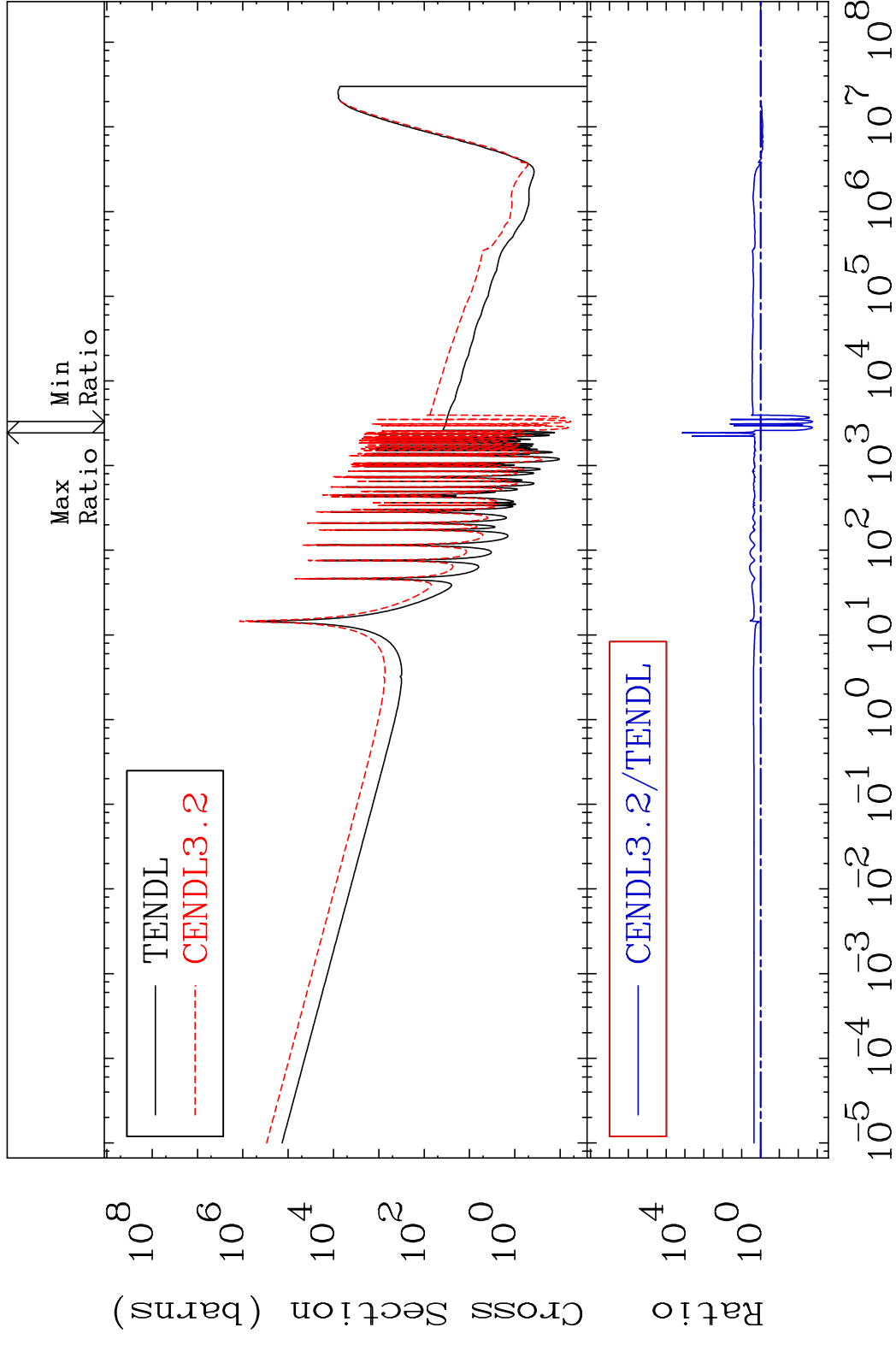
Incident Energy (eV)

54-Xe-131

MAT 5446      Dpa inelastic (mt51-91)      54-Xe-131  
 Cross Section      -100.0 To 296.6 %

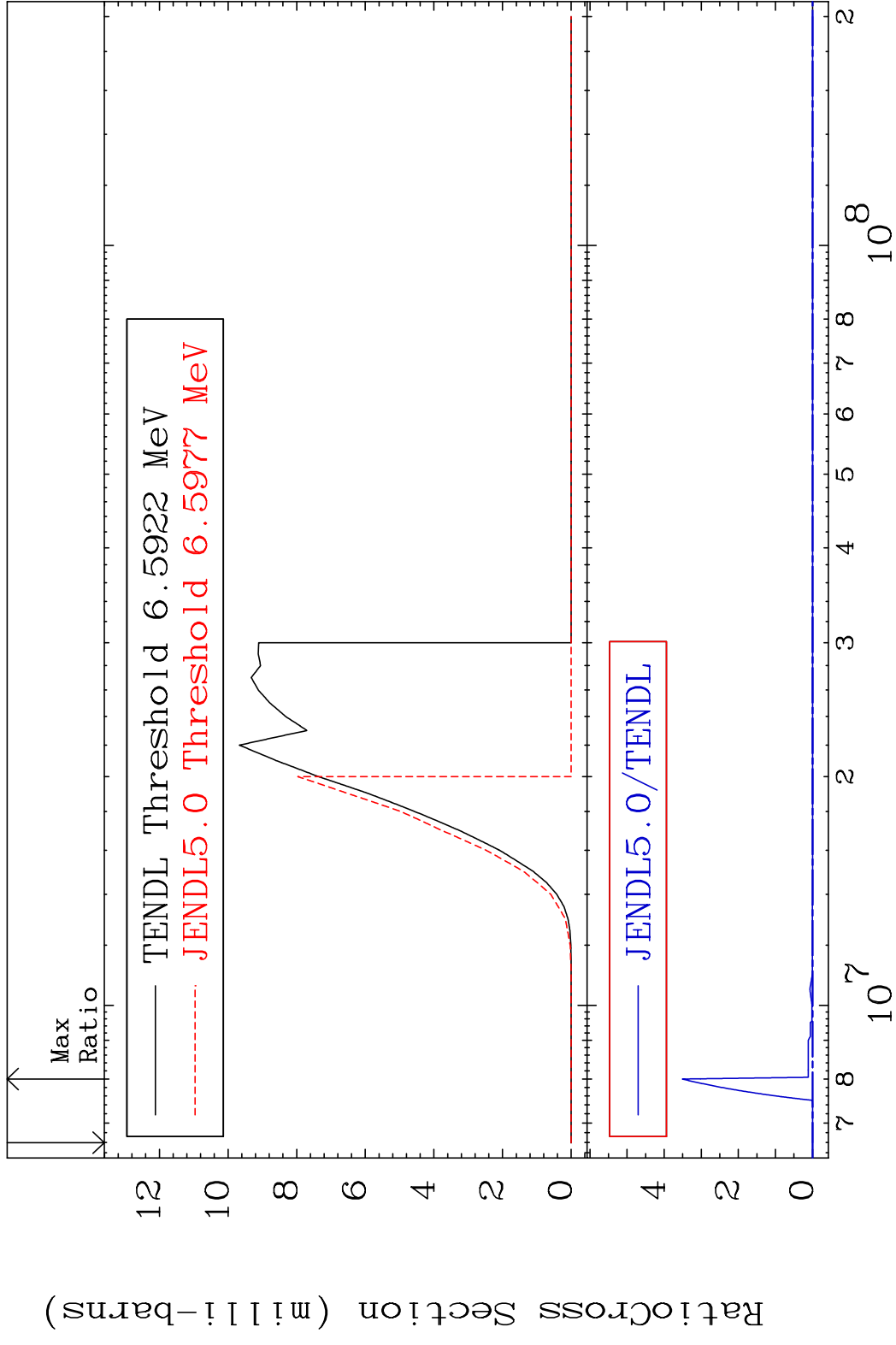


MAT 5446 Dpa disappearance (mt102 -120) 54-Xe-131  
 Cross Section -99.82 To 9999. %



49 Incident Energy (eV) 54-Xe-131

MAT 5446 (n,d):53-I -130g 54-Xe-131  
 Radionuclide Production Cross Section (%)



50 Incident Energy (eV) 54-Xe-131

MAT 5446 (n, d):53-I -130m1 54-Xe-131  
 Radionuclide Production Cross Section Ratio 9999. %

