

Program Complot
(Version 2021-1)

by

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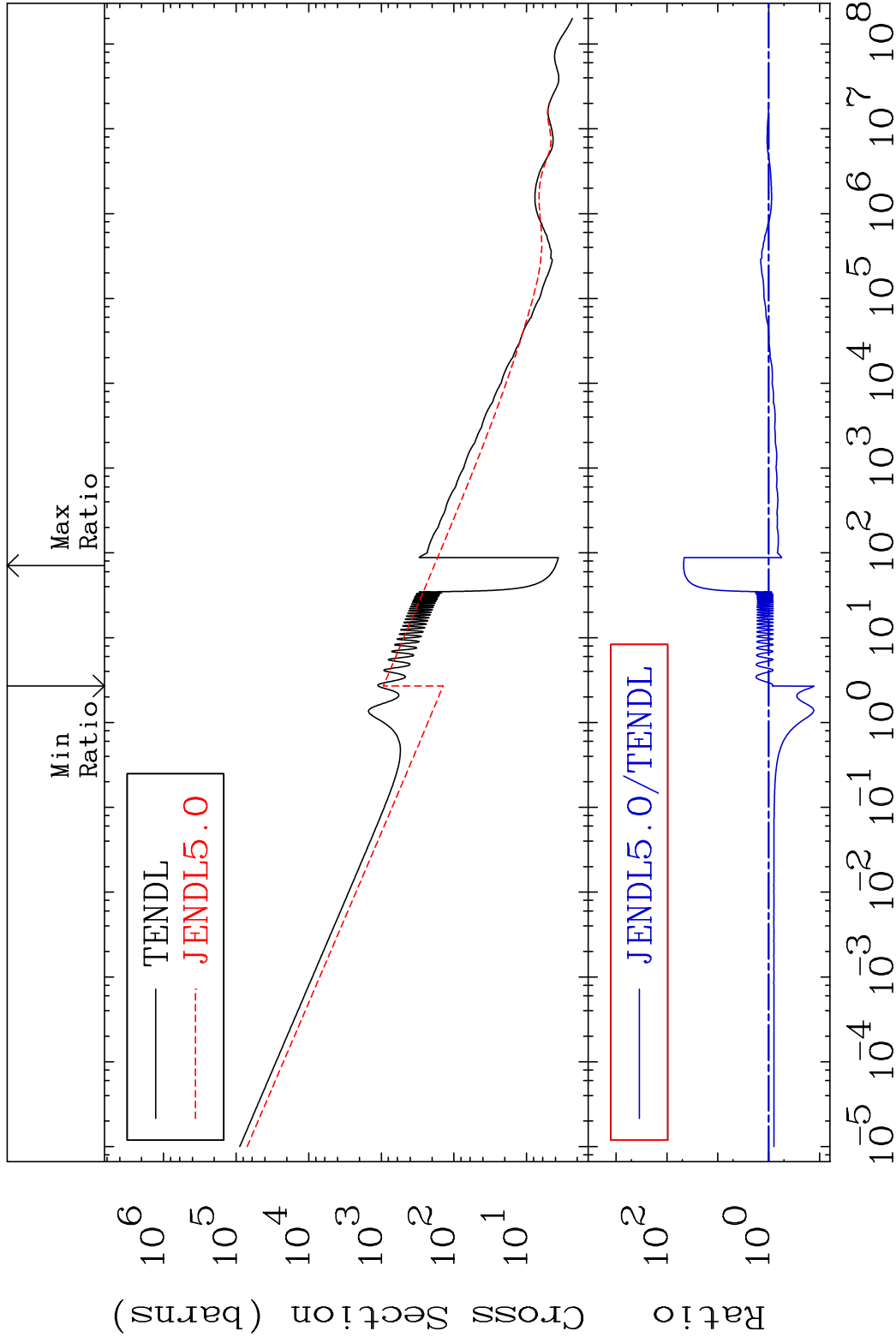
Press Mouse Button to Start

MAT 6155

Total

61-Pm-149

Cross Section -87.21 To 4602. %



1

Incident Energy (eV)

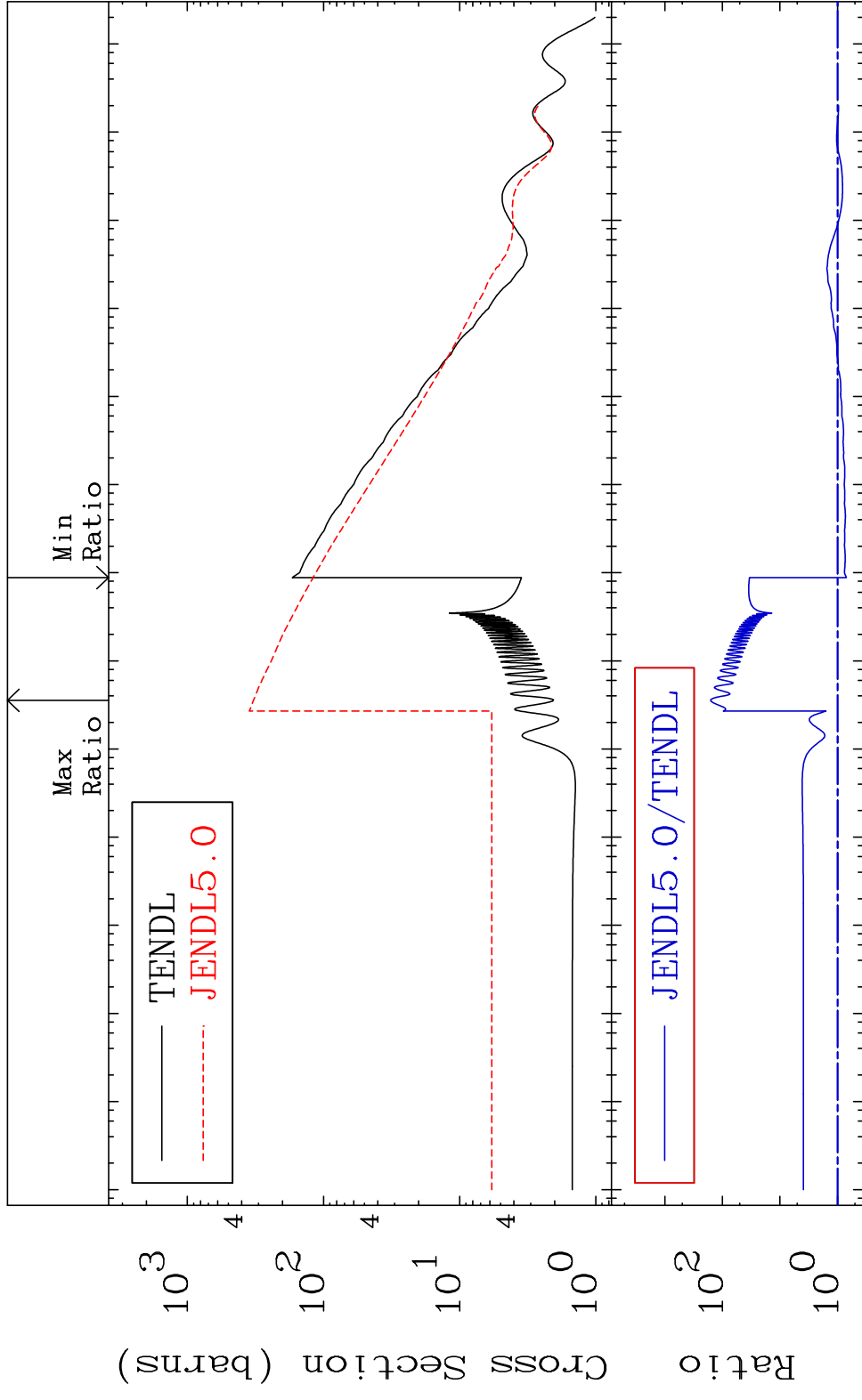
61-Pm-149

MAT 6155

61-Pm-149

Elastic

Cross Section -29.63 To 9999. %



10³
10²
10¹
10⁰
10²
10⁰
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

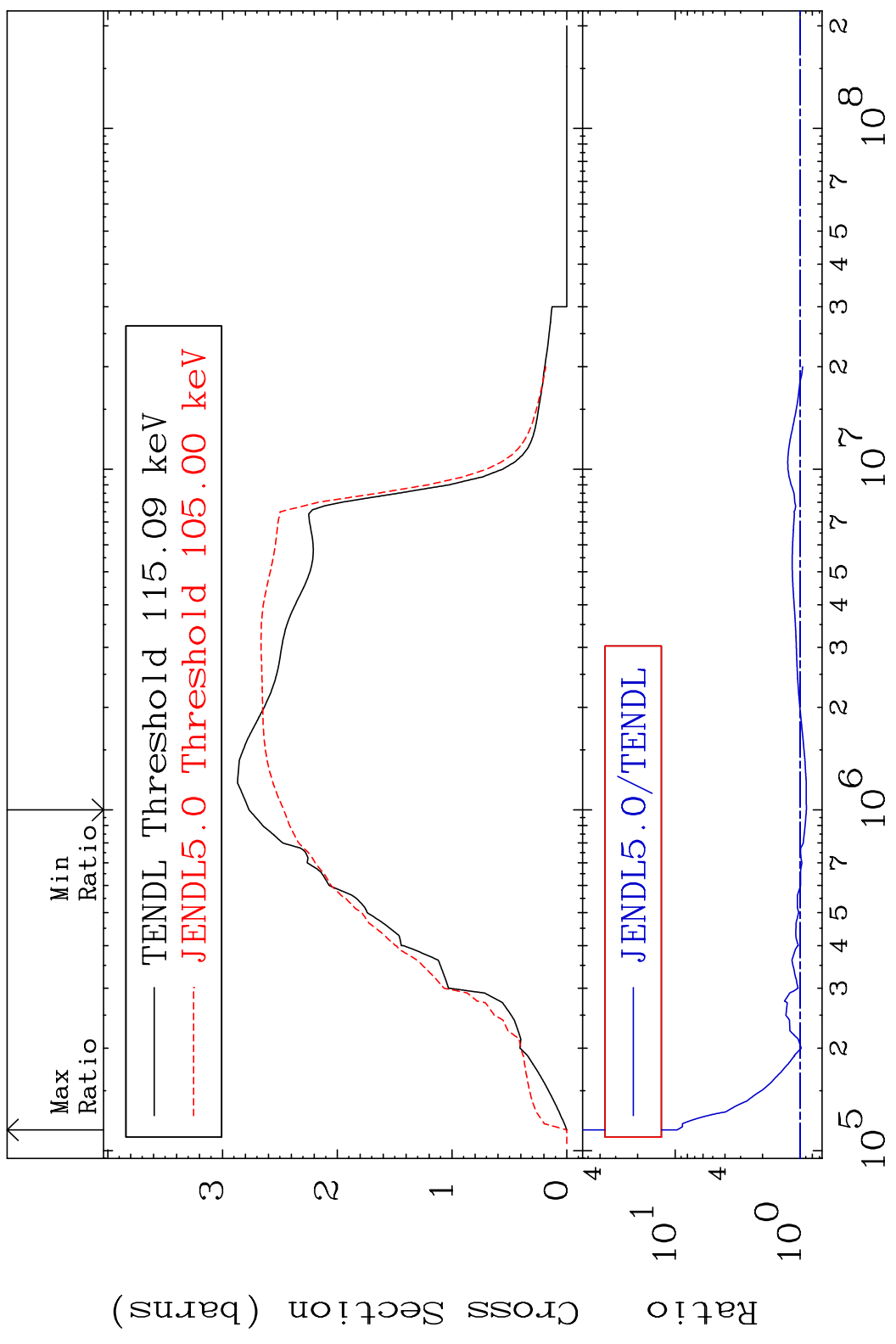
61-Pm-149

MAT 6155

Inelastic

61-Pm-149

Cross Section -10.92 To 864.8 %



3

Incident Energy (eV)

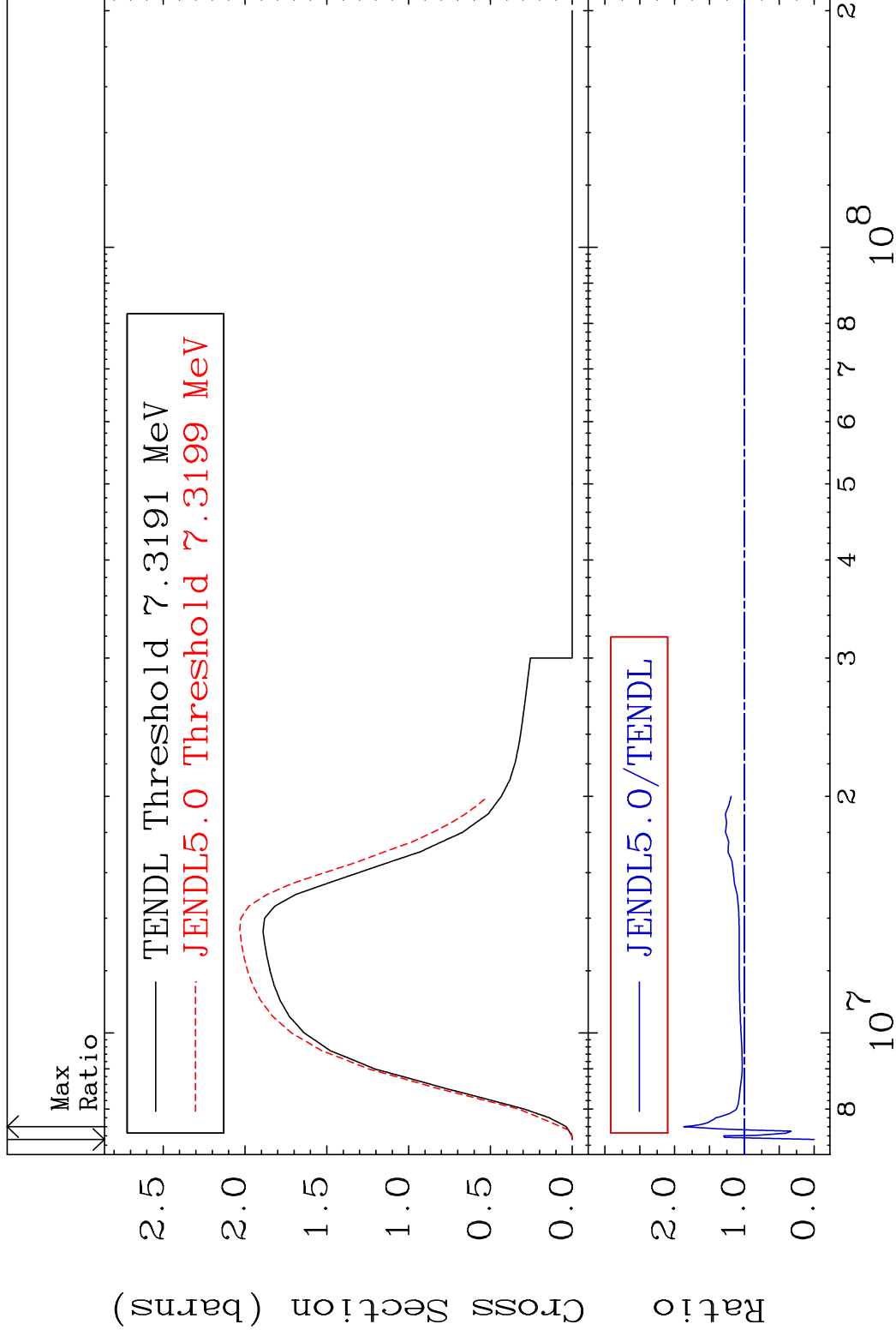
61-Pm-149

MAT 6155

(n,2n)

61-Pm-149

Cross Section -100.0 To 87.07 %



4

Incident Energy (eV)

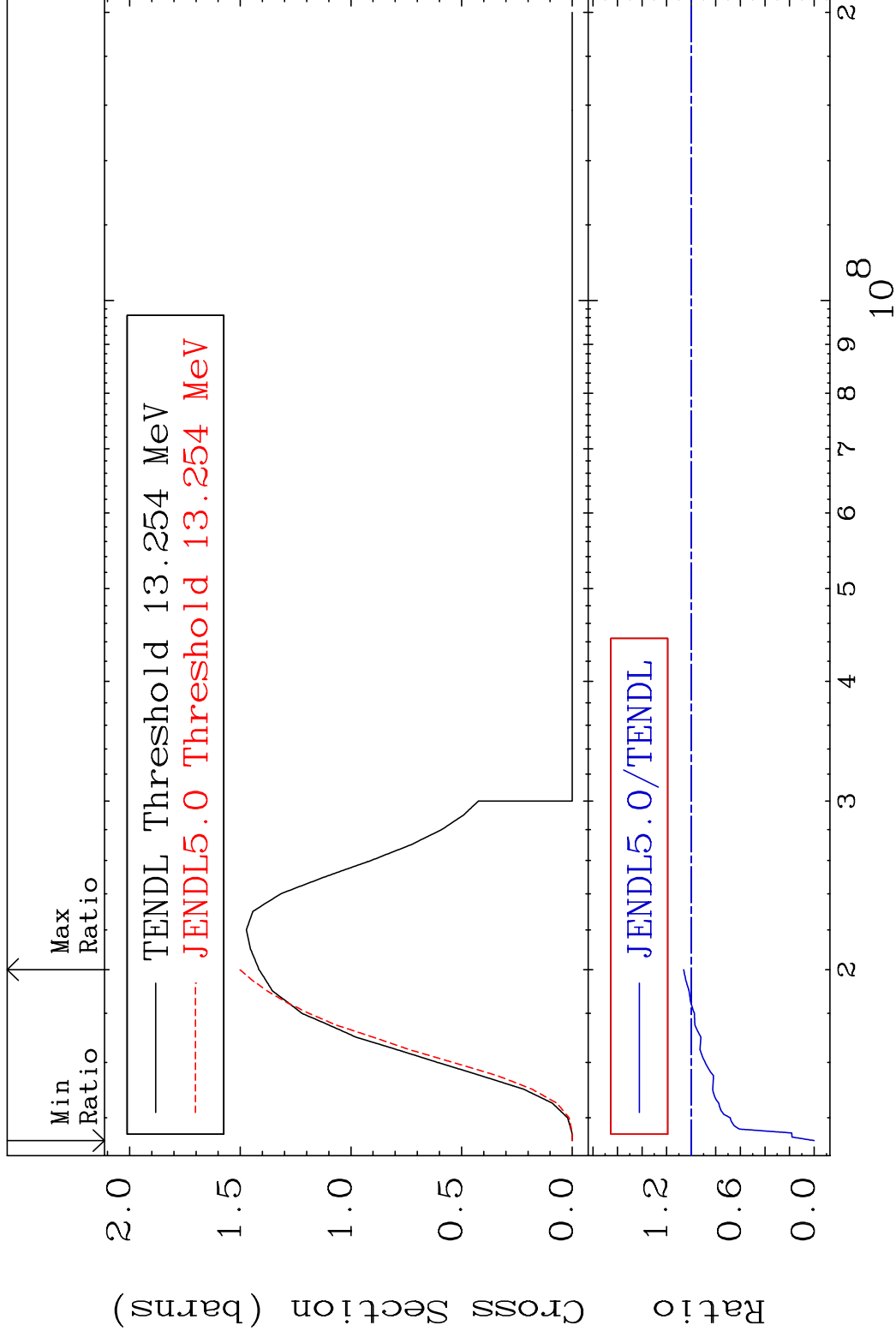
61-Pm-149

MAT 6155

(n,3n)

61-Pm-149

Cross Section -100.0 To 6.139 %



5

Incident Energy (eV)

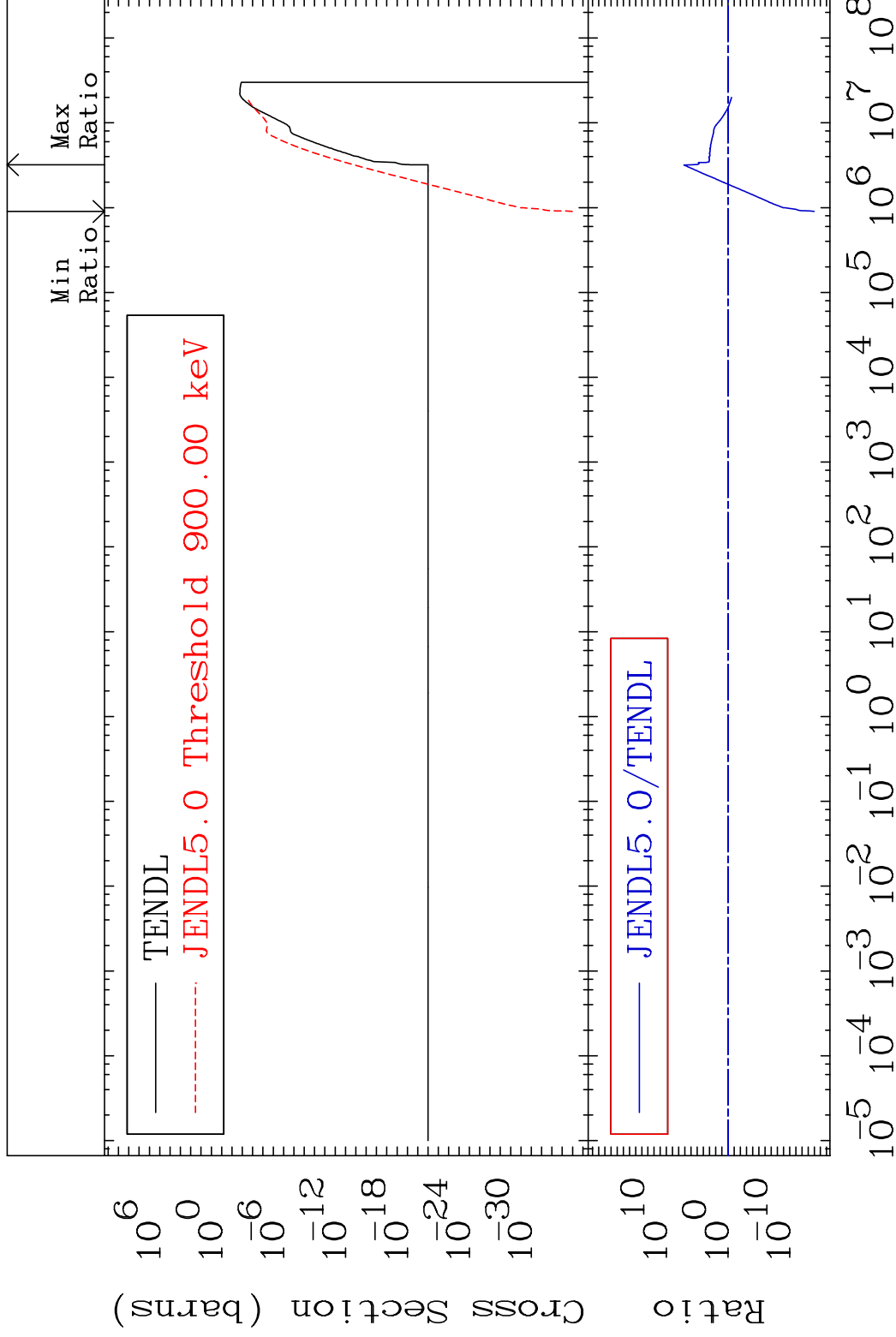
61-Pm-149

MAT 6155

(n, n') α

61-Pm-149

Cross Section -100.0 To 9999. %

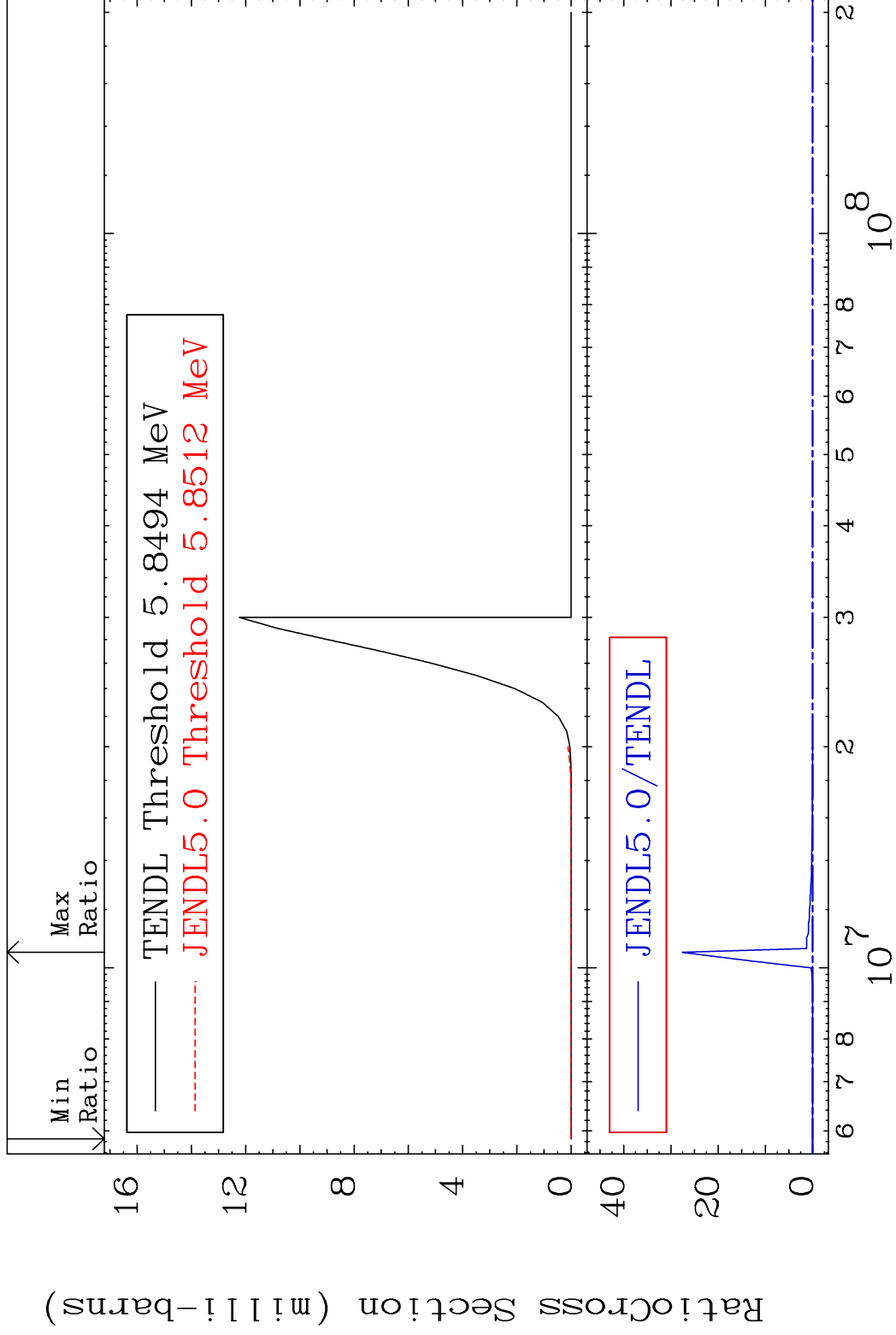


MAT 6155

(n,2n) α

61-Pm-149

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

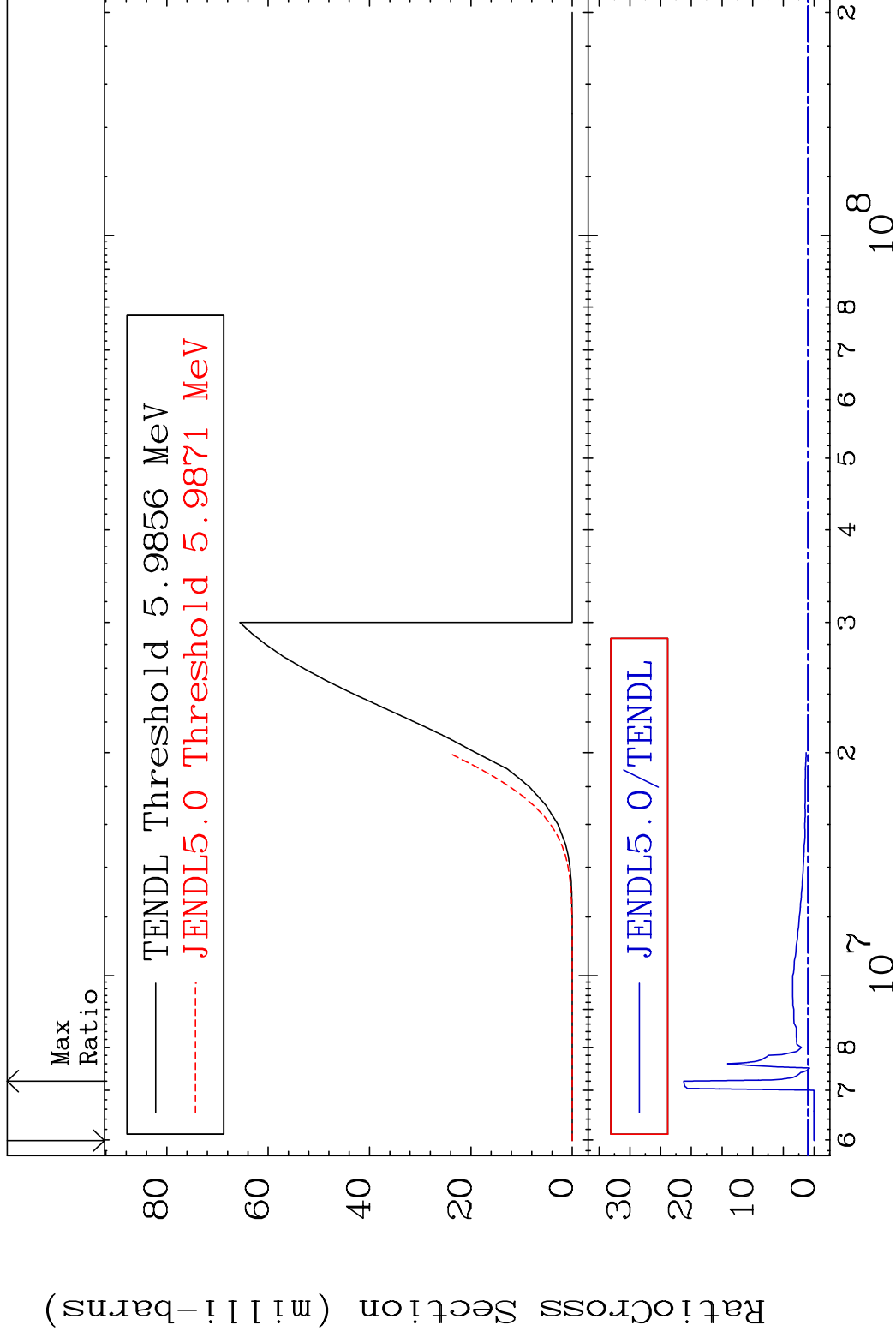
61-Pm-149

MAT 6155

(n, n') p

61-Pm-149

Cross Section -100.0 To 2024. %



8

Incident Energy (eV)

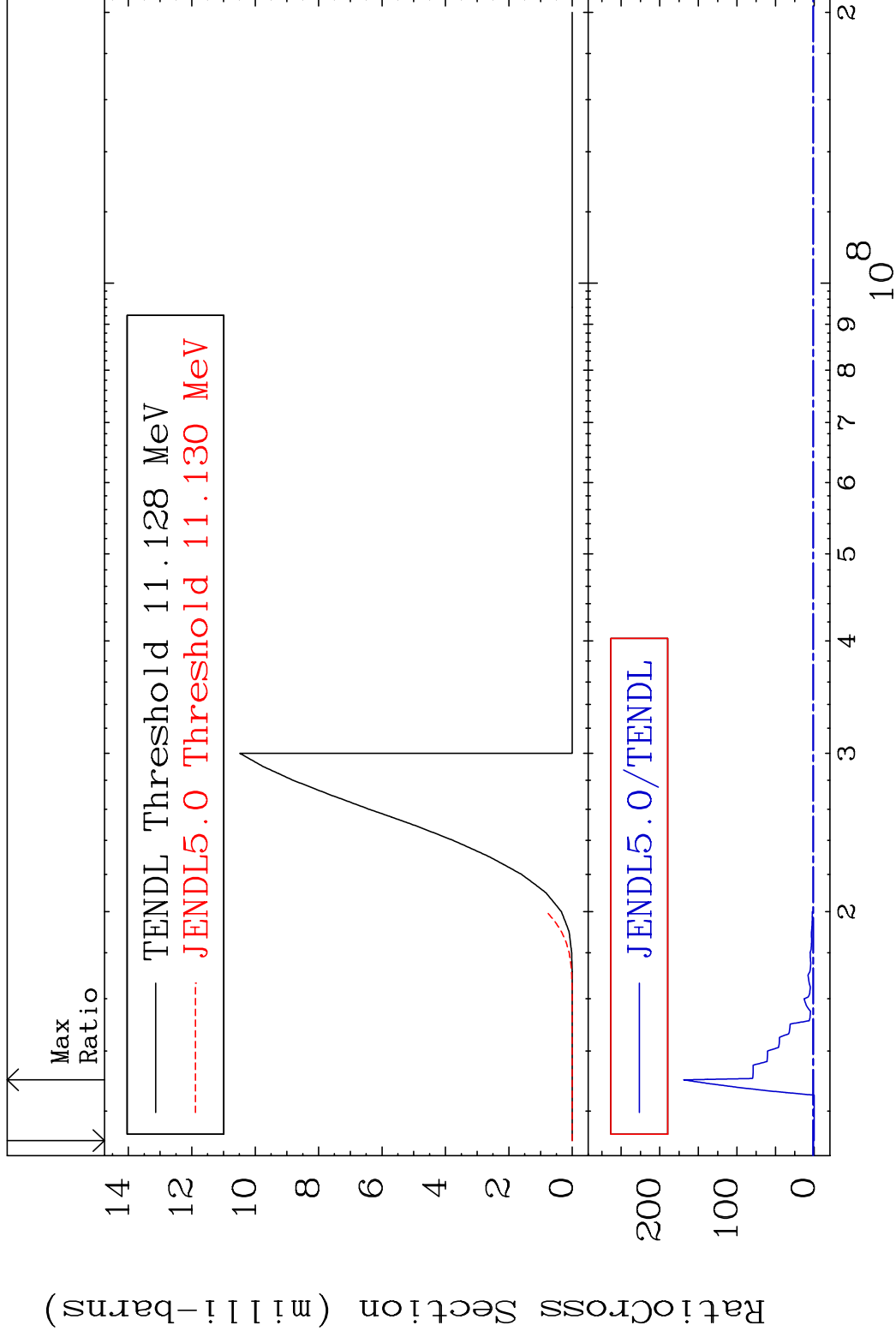
61-Pm-149

MAT 6155

(n, n') d

61-Pm-149

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

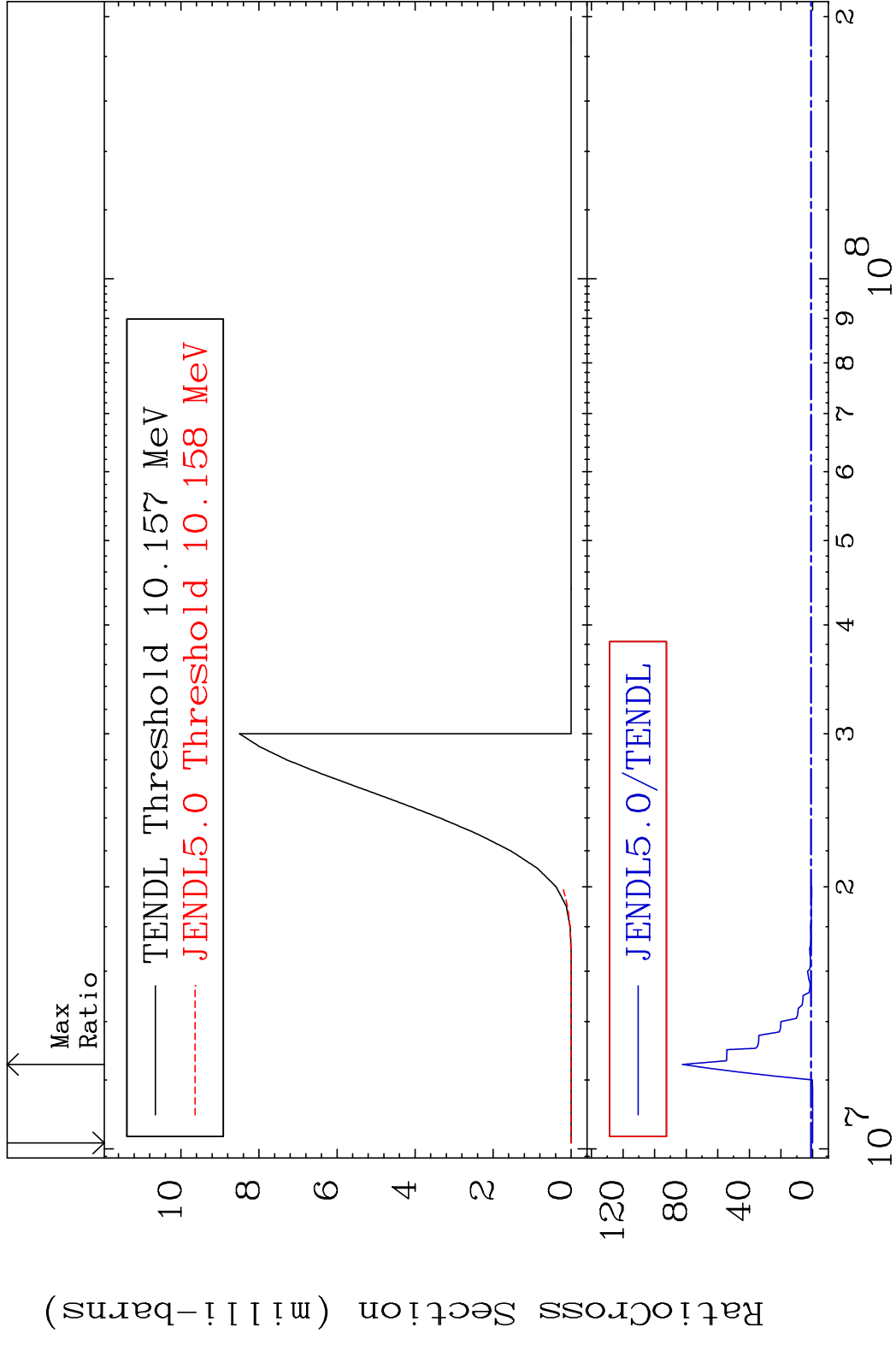
61-Pm-149

MAT 6155

(n, n') t

61-Pm-149

Cross Section -100.0 To 8142. %



10

Incident Energy (eV)

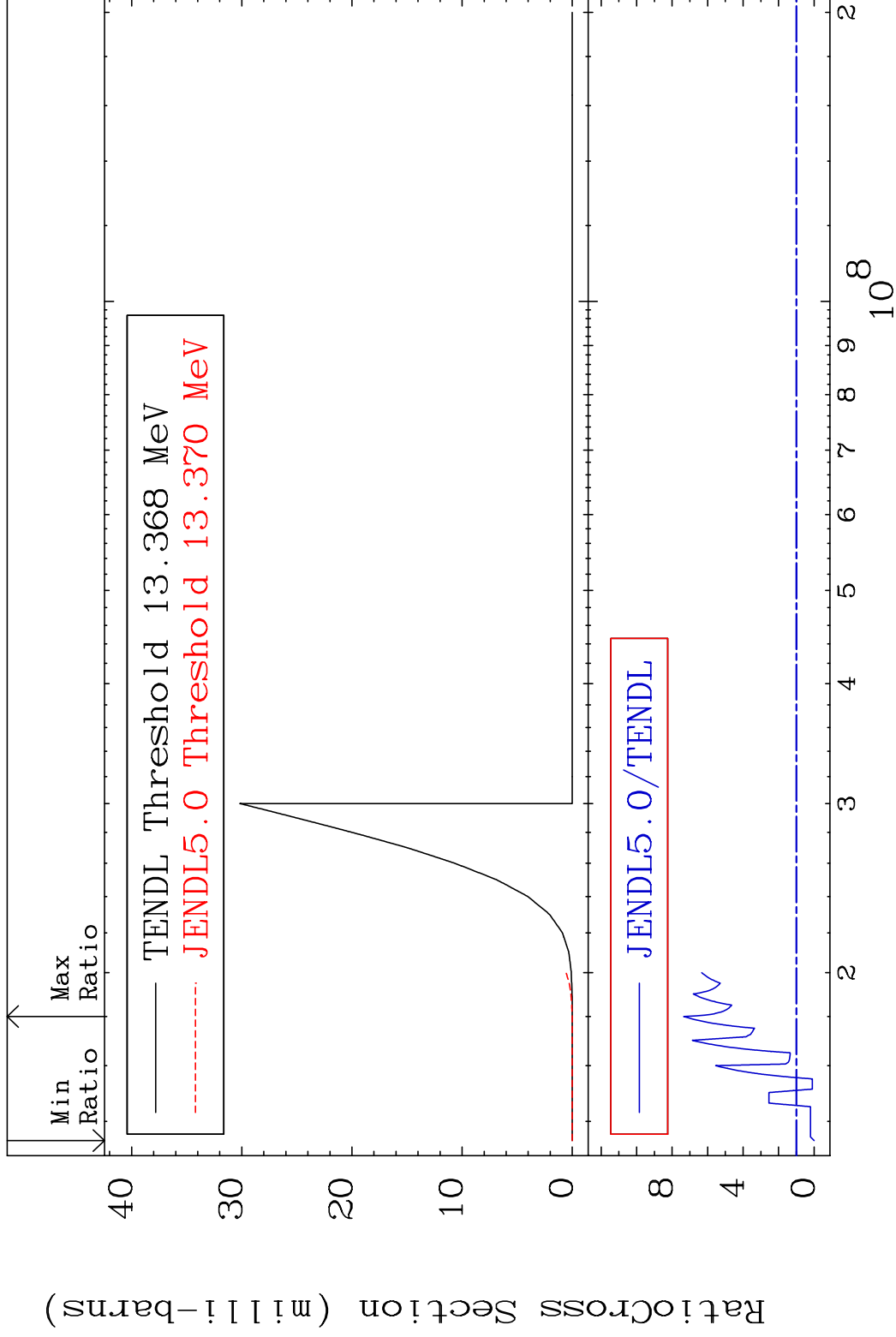
61-Pm-149

MAT 6155

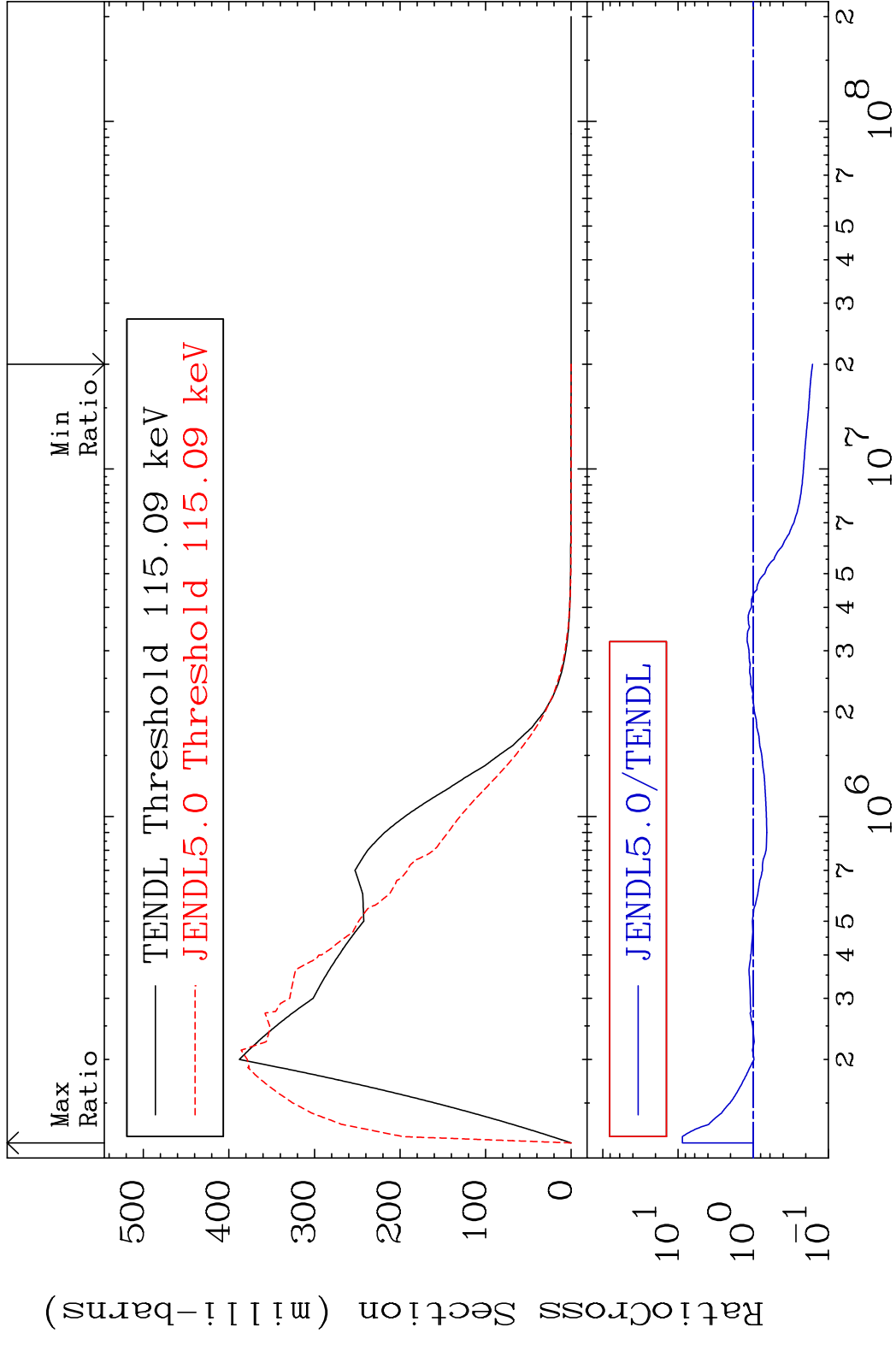
(n,2n) p

61-Pm-149

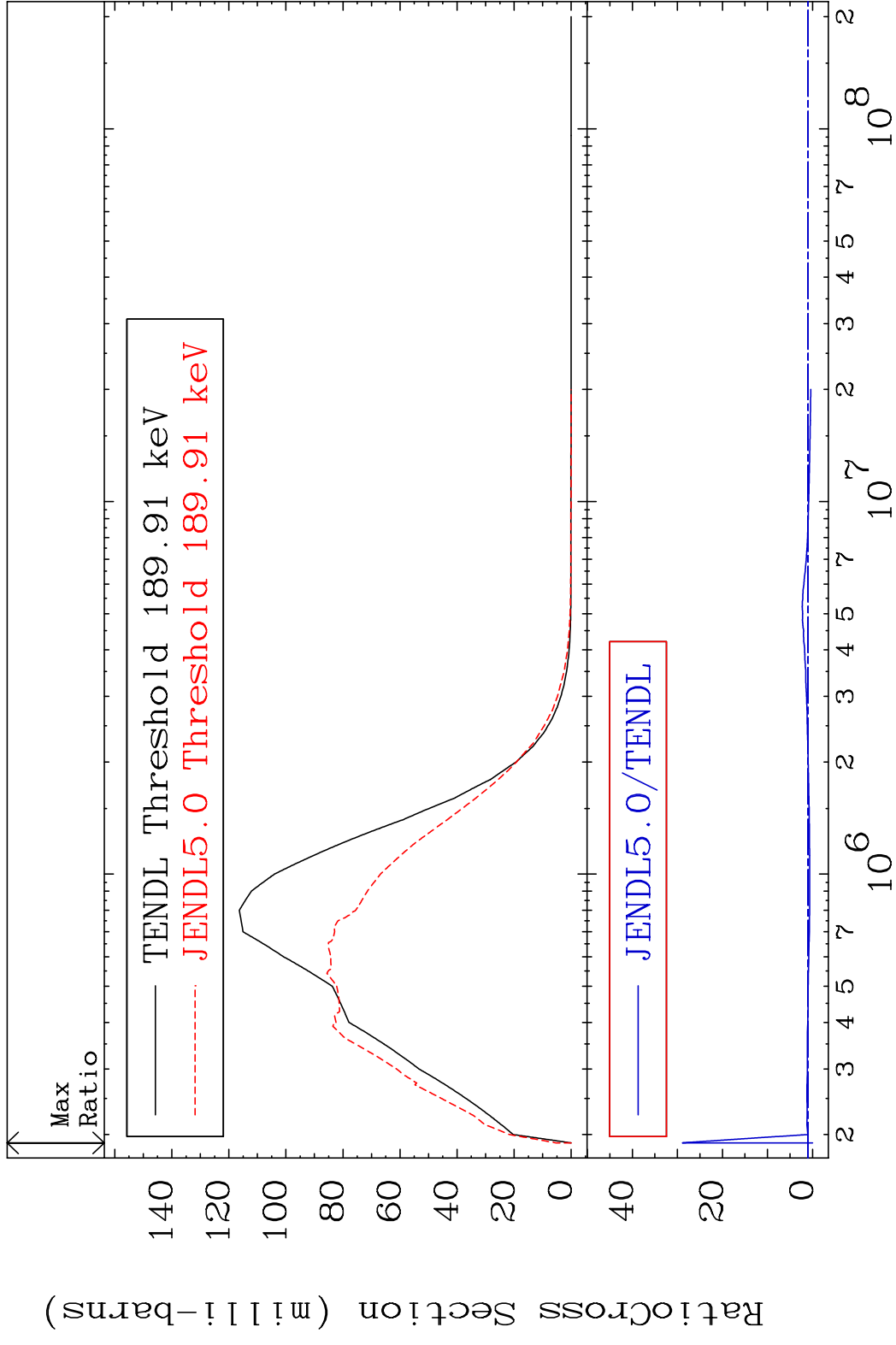
Cross Section -100.0 To 635.1 %



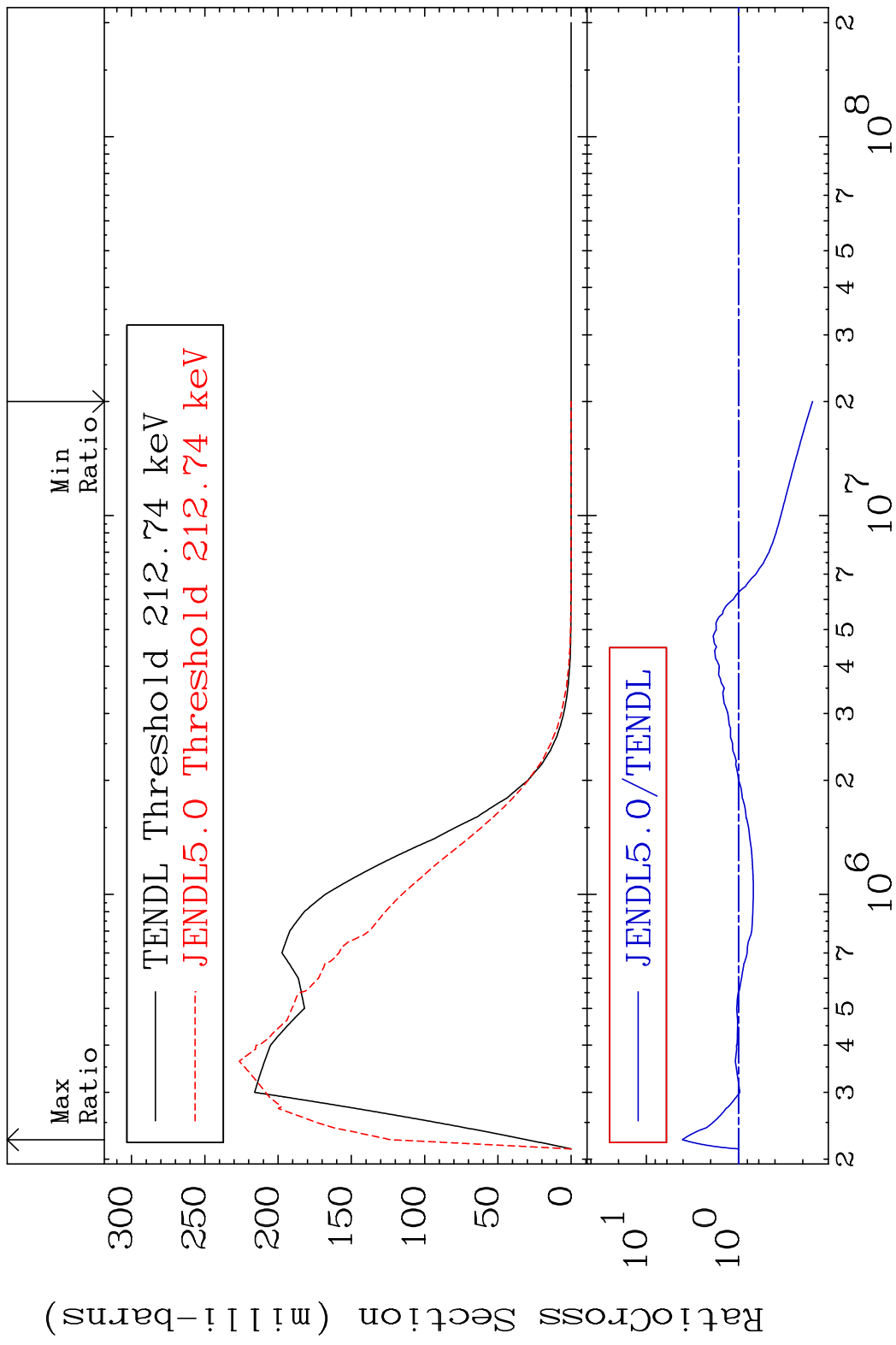
MAT 6155 MT= 51 (n, n') Level 61-Pm-149
 Cross Section -83.75 To 777.1 %



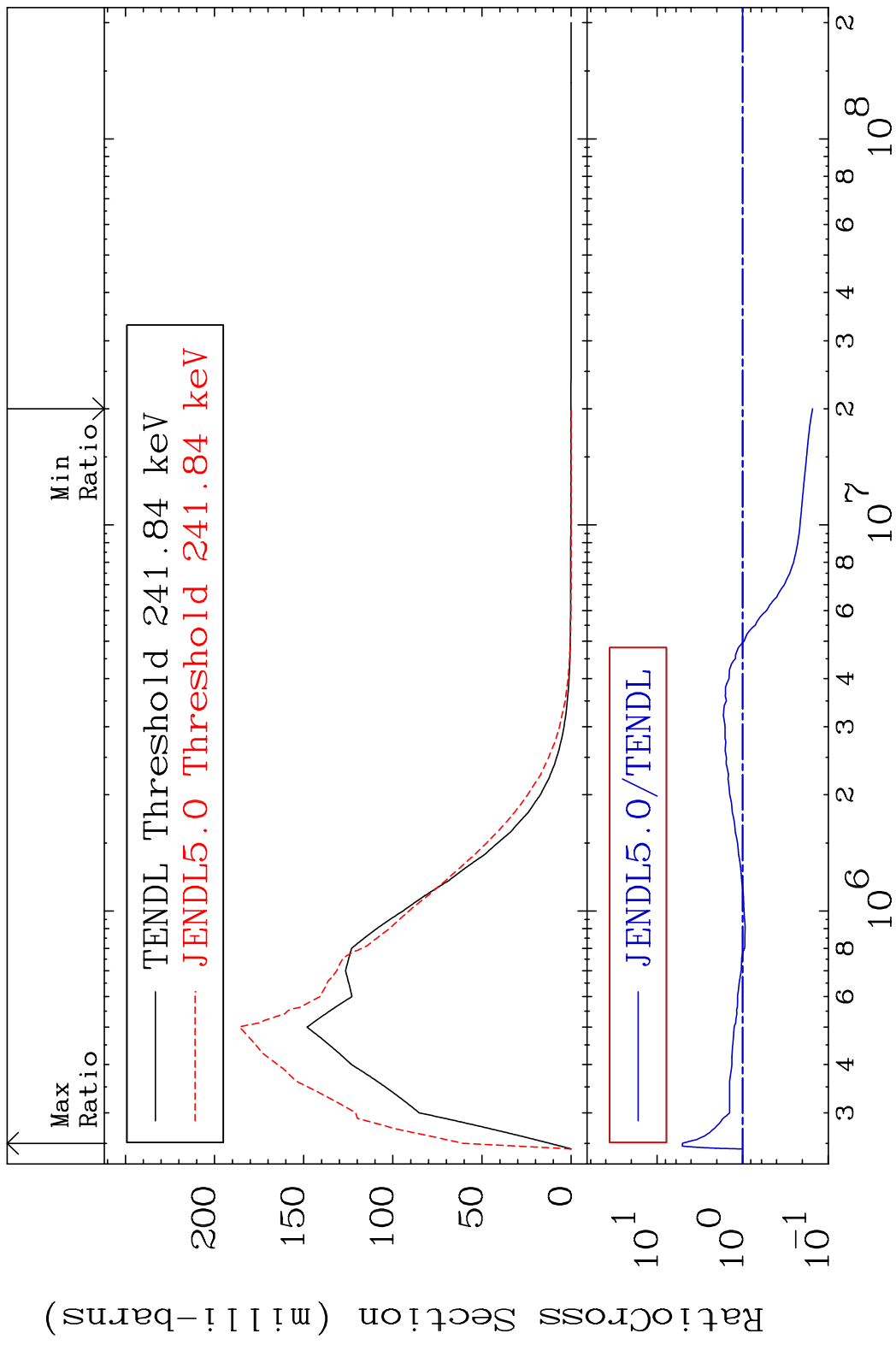
MAT 6155 MT= 52 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 2790. %



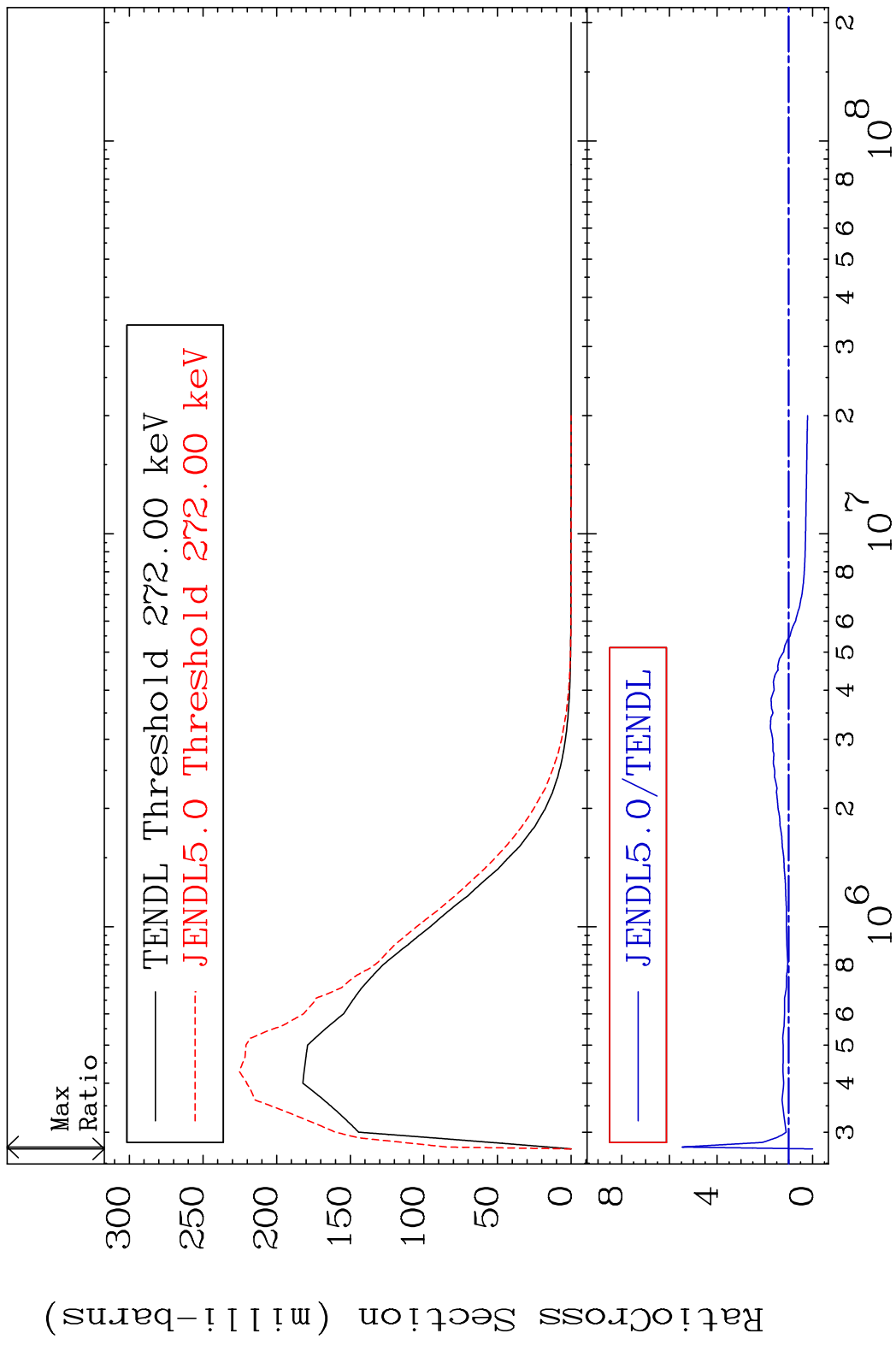
MAT 6155 MT= 53 (n, n') Level 61-Pm-149
 Cross Section -84.33 To 306.3 %



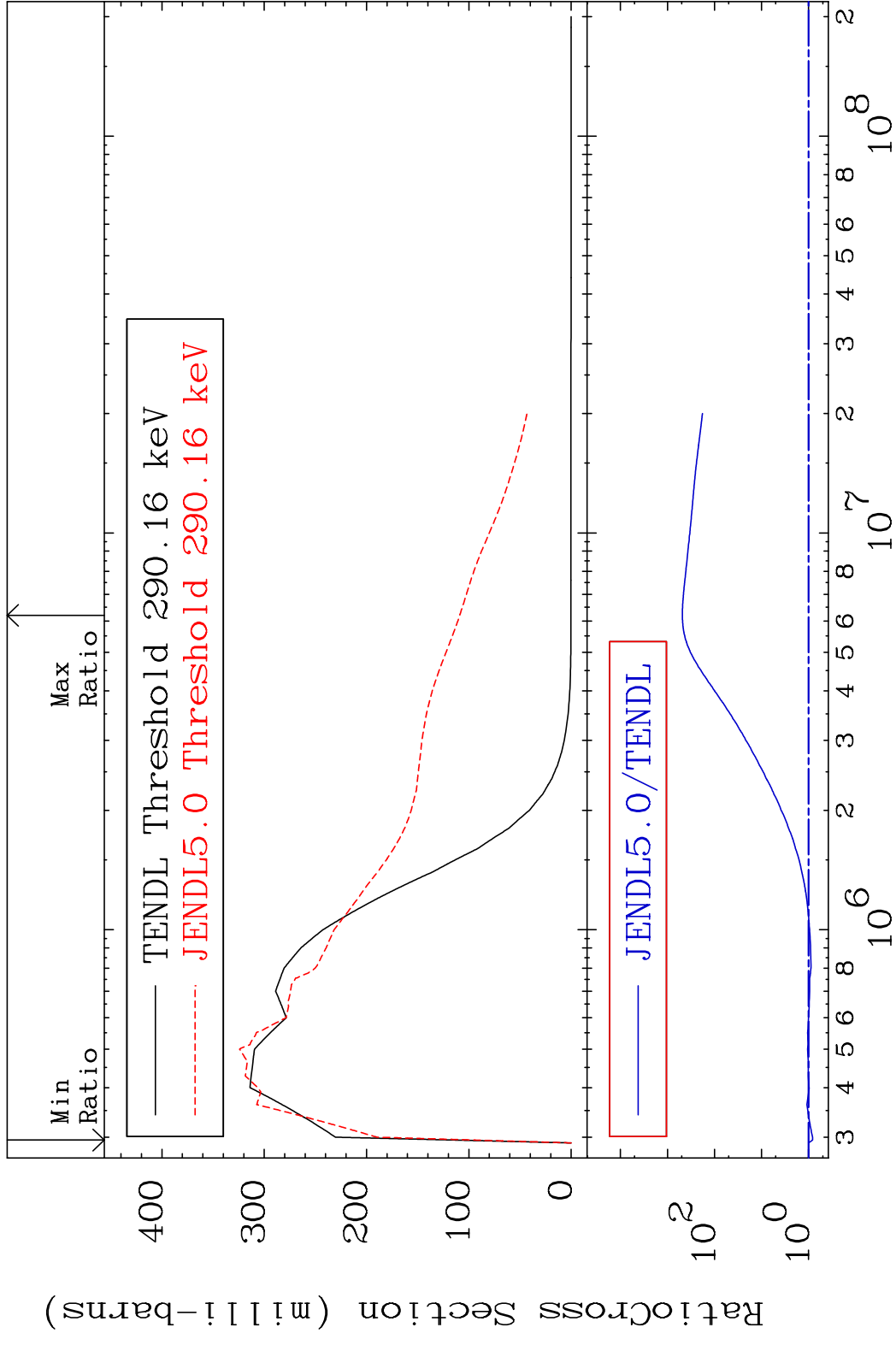
MAT 6155 MT= 54 (n,n') Level 61-Pm-149
 Cross Section -84.81 To 407.0 %



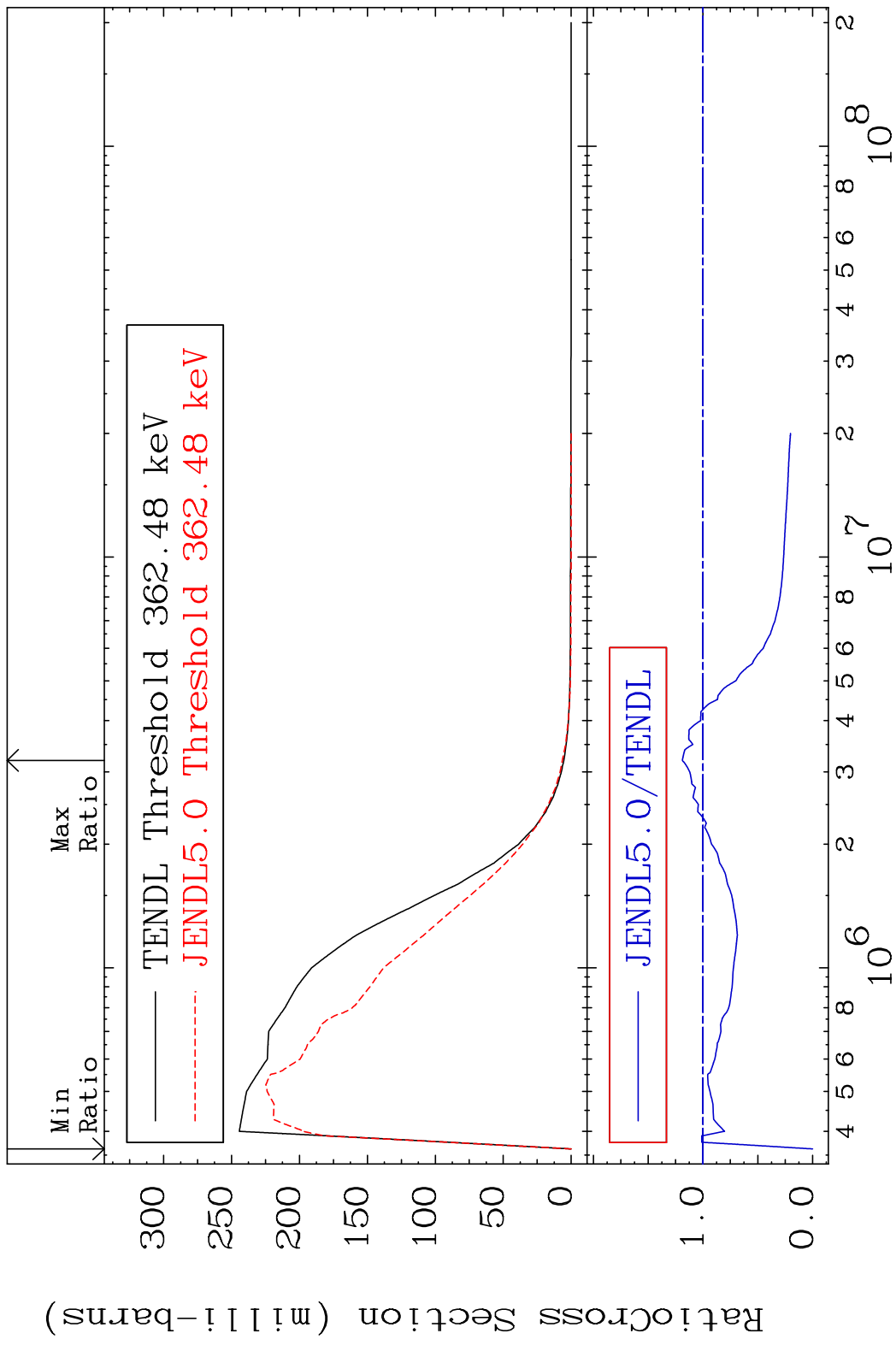
MAT 6155 MT= 55 (n,n') Level 61-Pm-149
 Cross Section -100.0 To 445.9 %



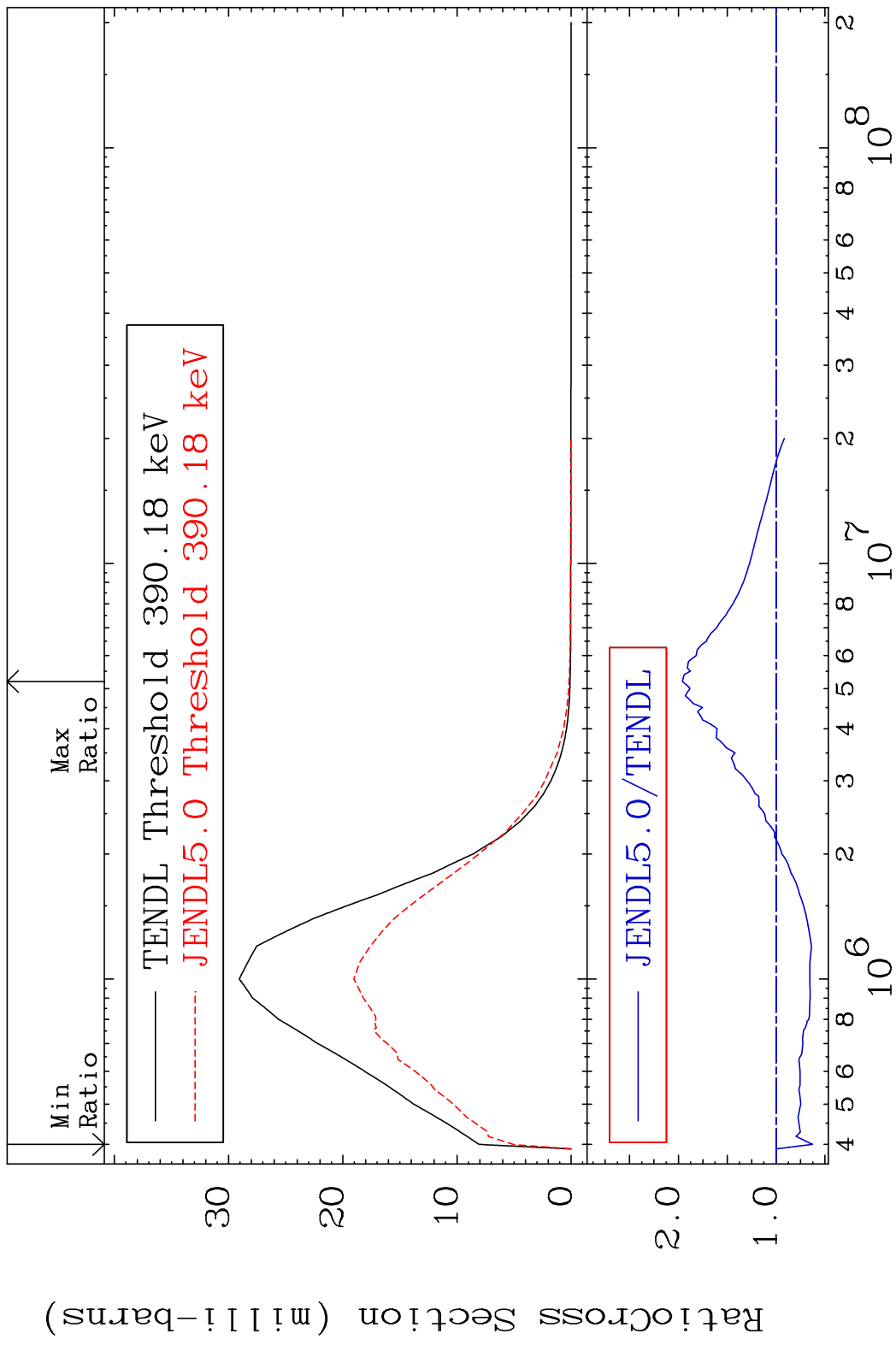
MAT 6155 MT= 56 (n, n') Level 61-Pm-149
 Cross Section -17.56 To 9999. %



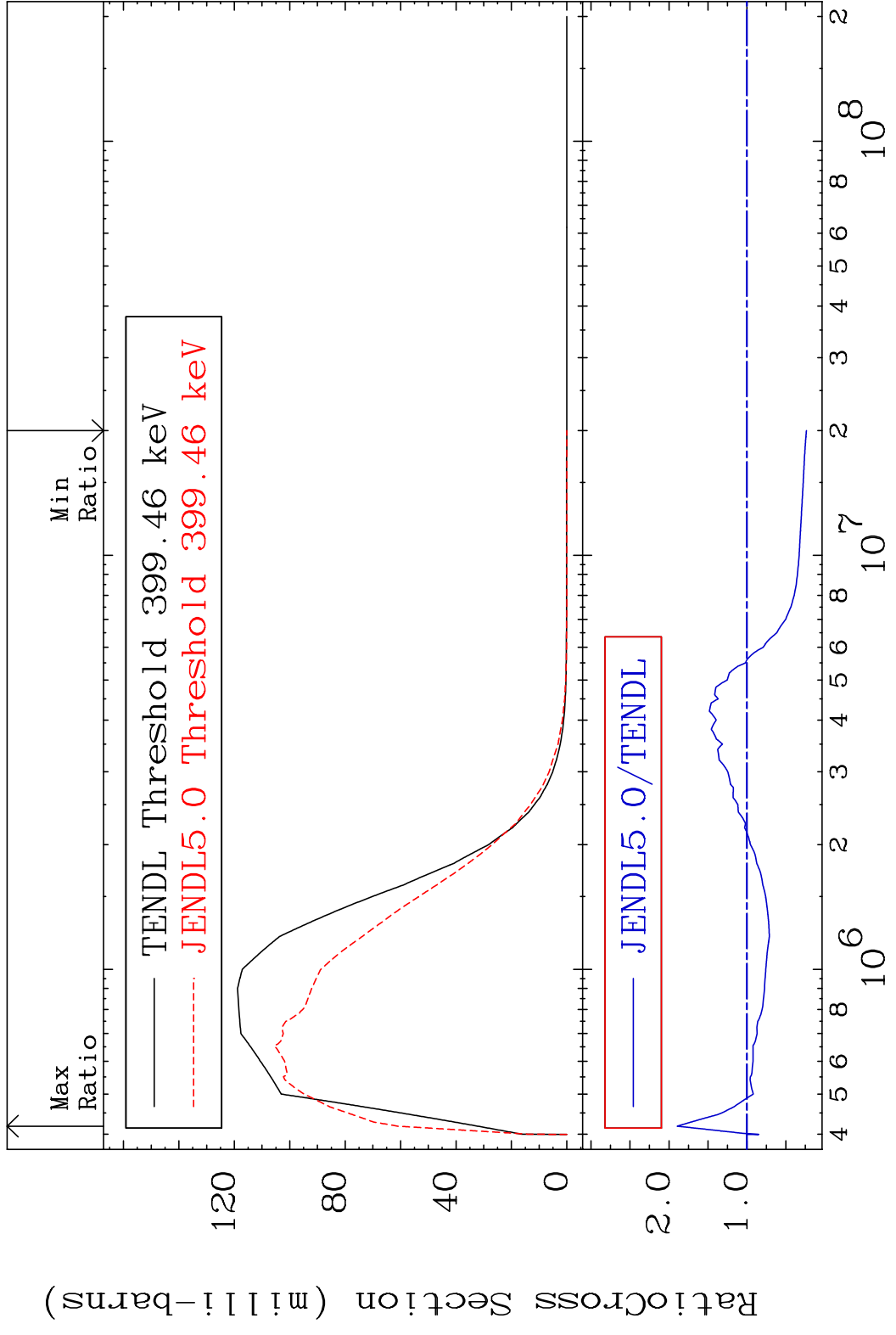
MAT 6155 MT= 57 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 18.81 %



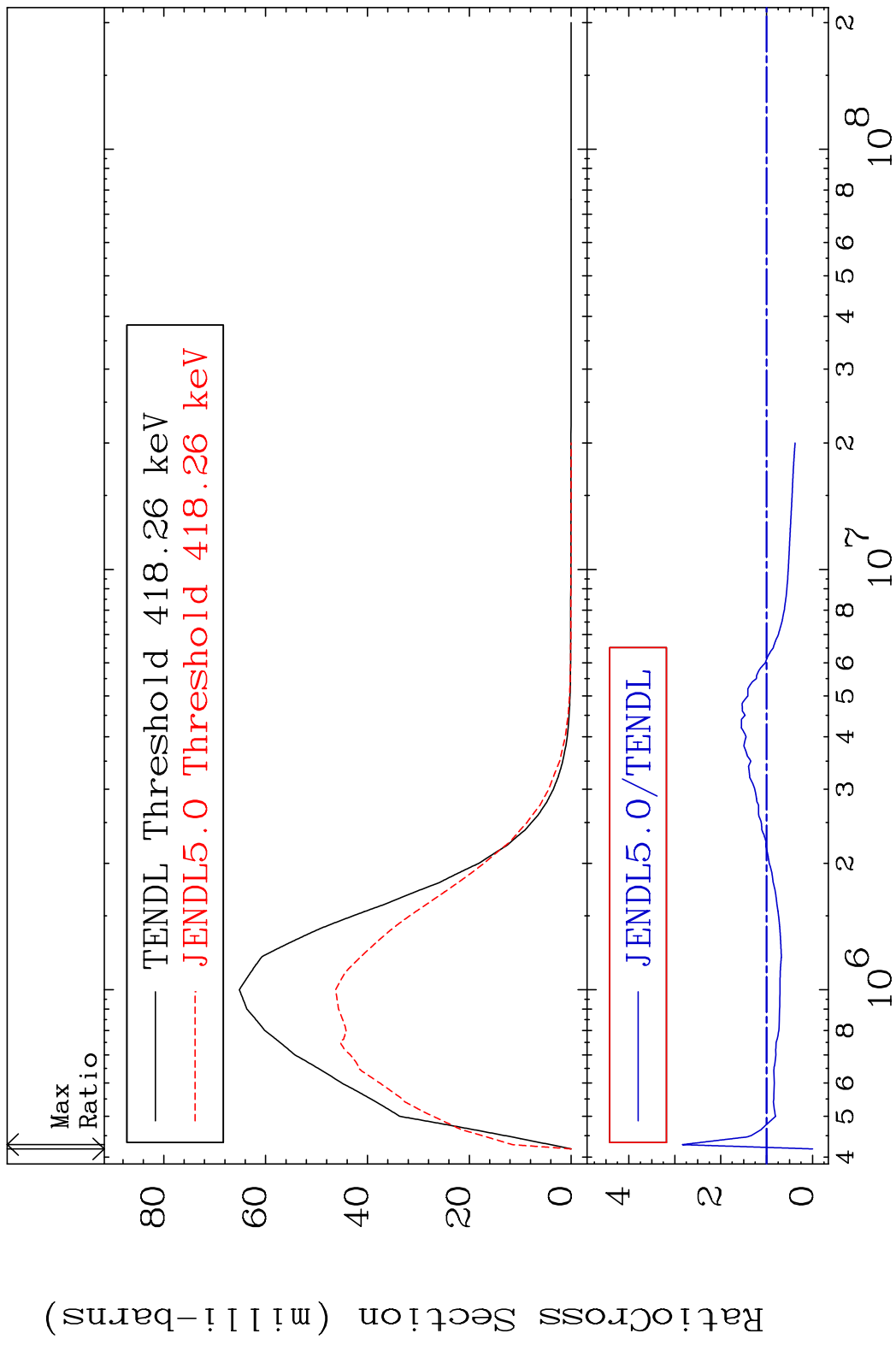
MAT 6155 MT= 58 (n, n') Level 61-Pm-149
 Cross Section -37.27 To 95.96 %



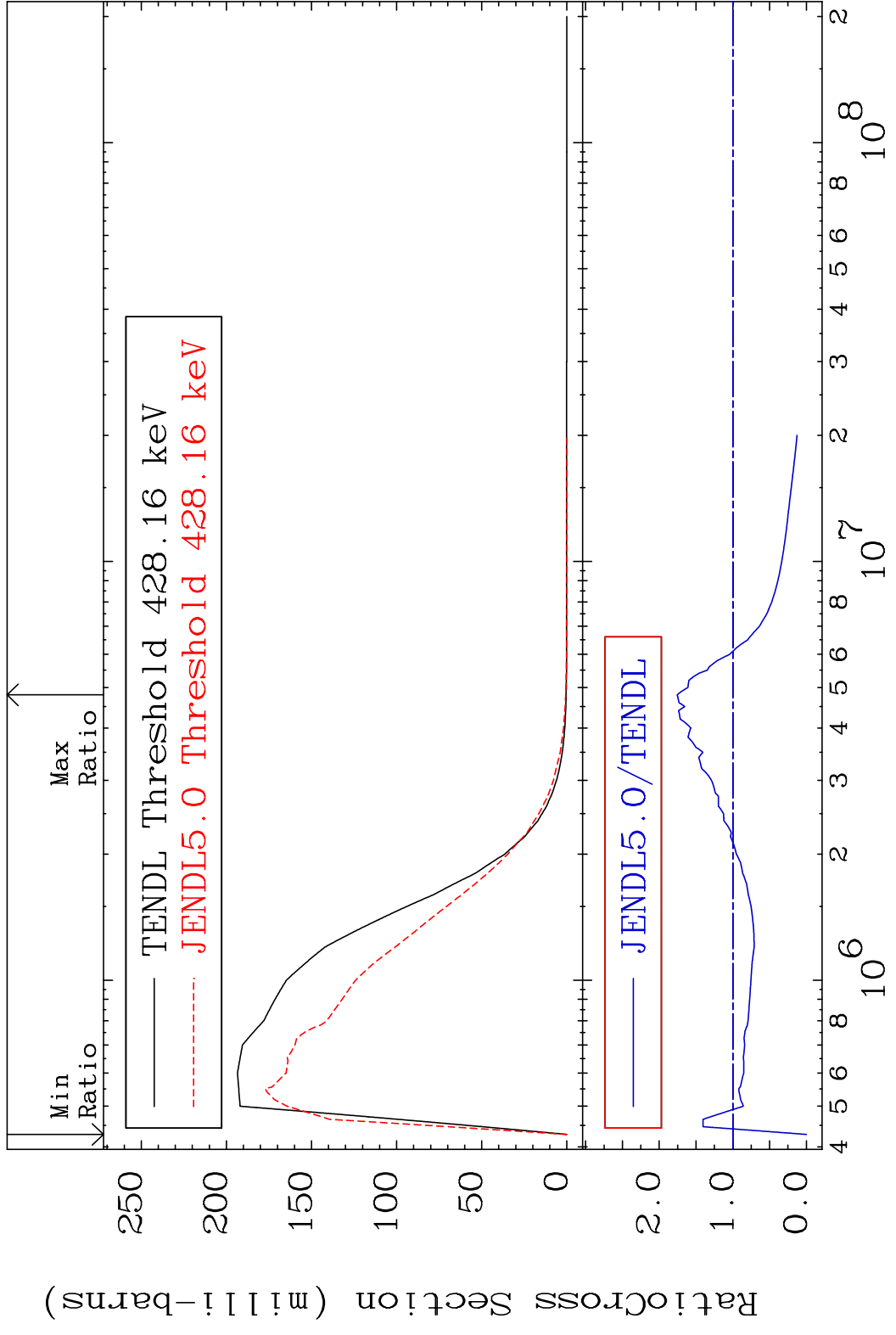
MAT 6155 MT= 59 (n,n') Level 61-Pm-149
 Cross Section -76.29 To 89.46 %



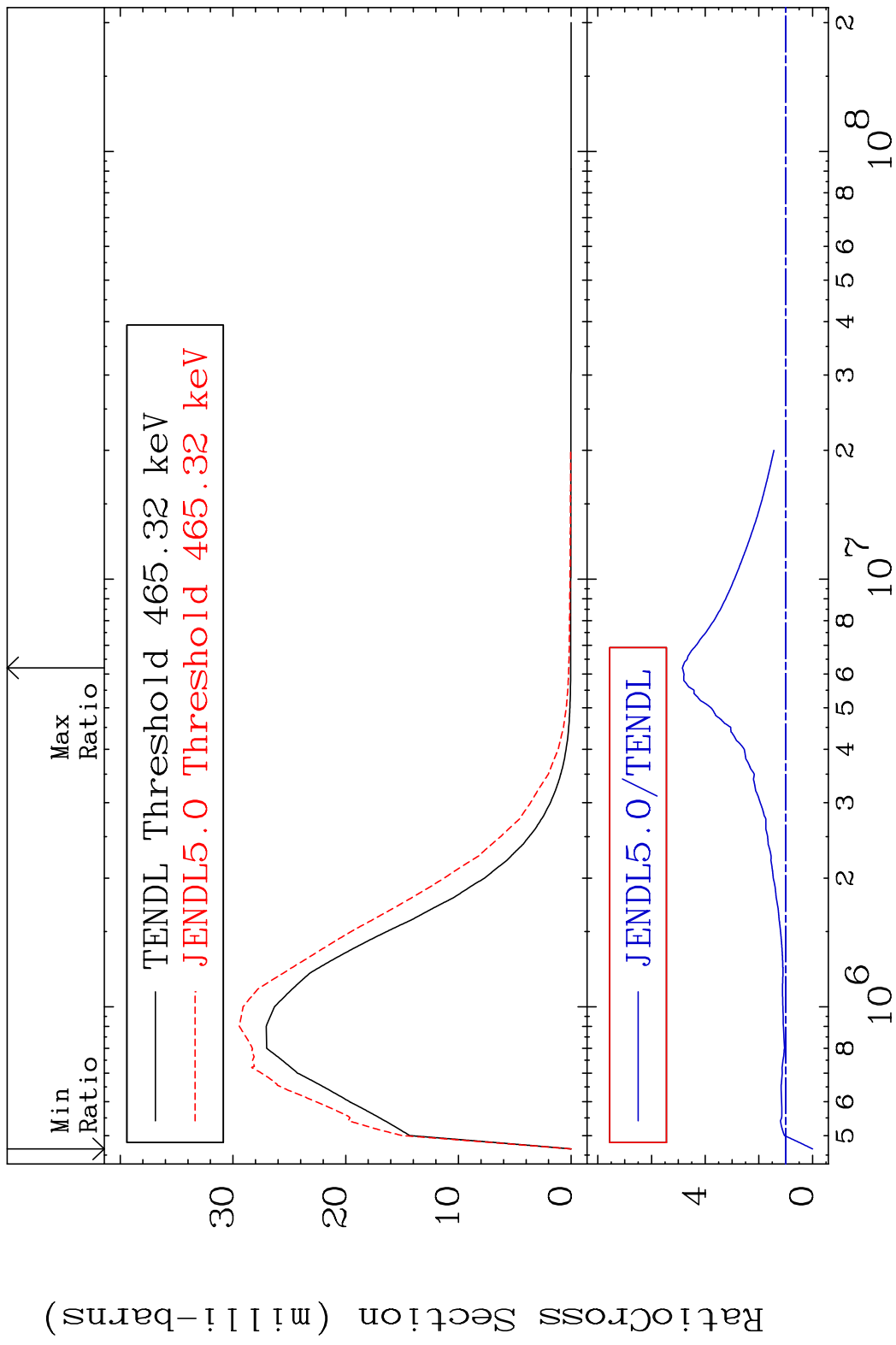
MAT 6155 MT= 60 (n,n') Level 61-Pm-149
 Cross Section -100.0 To 183.6 %



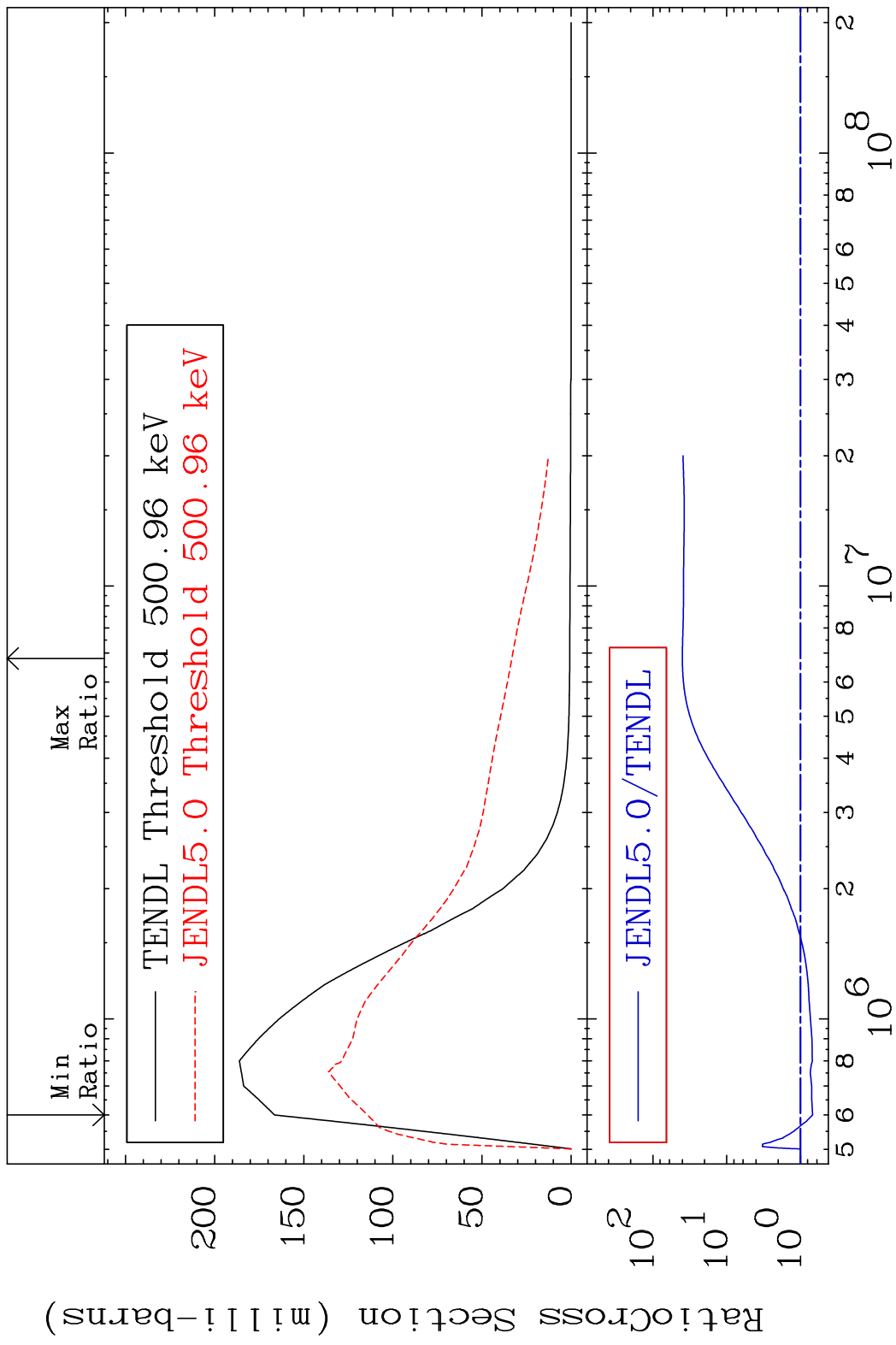
MAT 6155 MT= 61 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 75.58 %



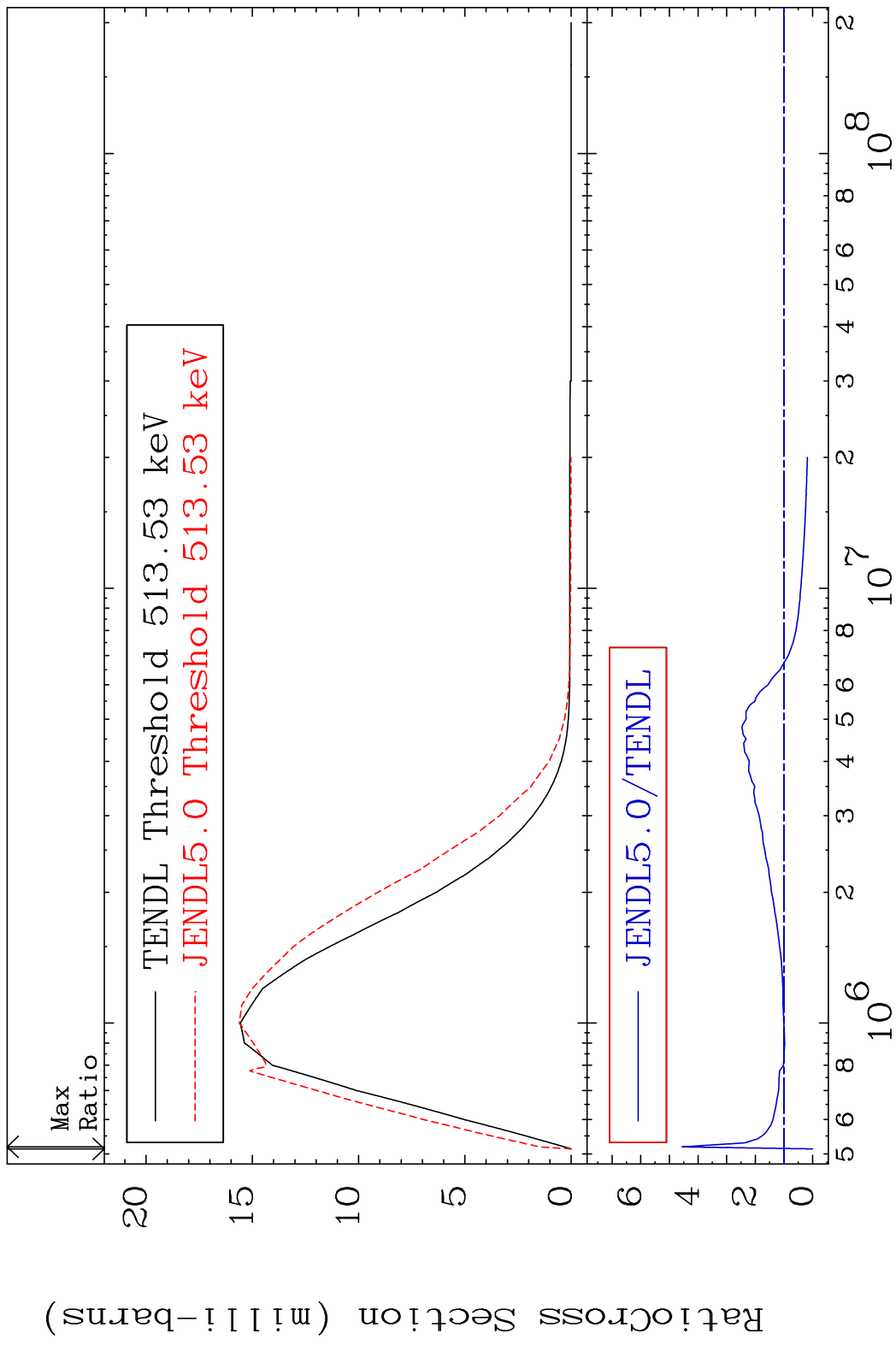
MAT 6155 MT= 62 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 385.2 %



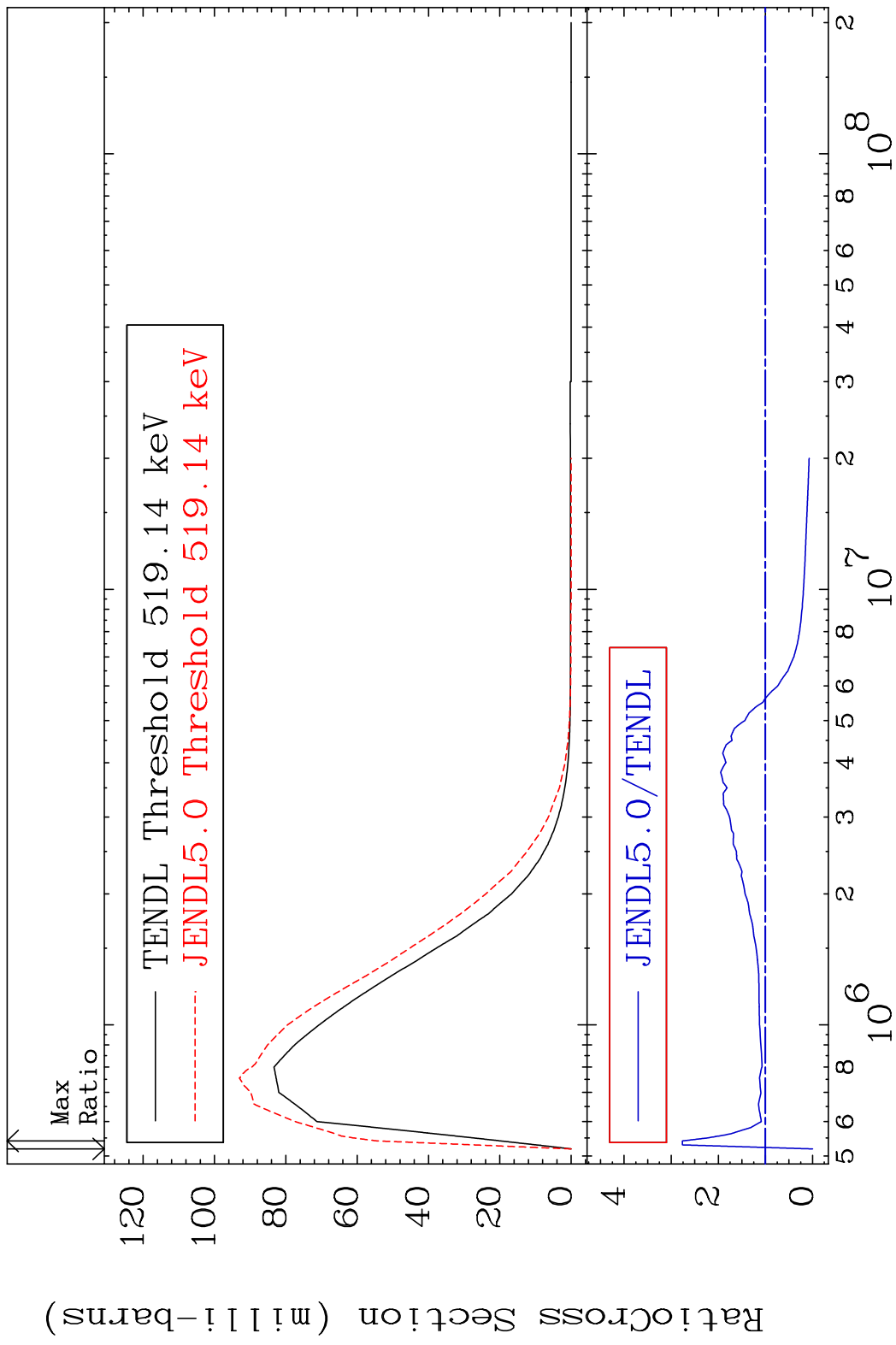
MAT 6155 MT= 63 (n, n') Level 61-Pm-149
 Cross Section -31.40 To 3891. %



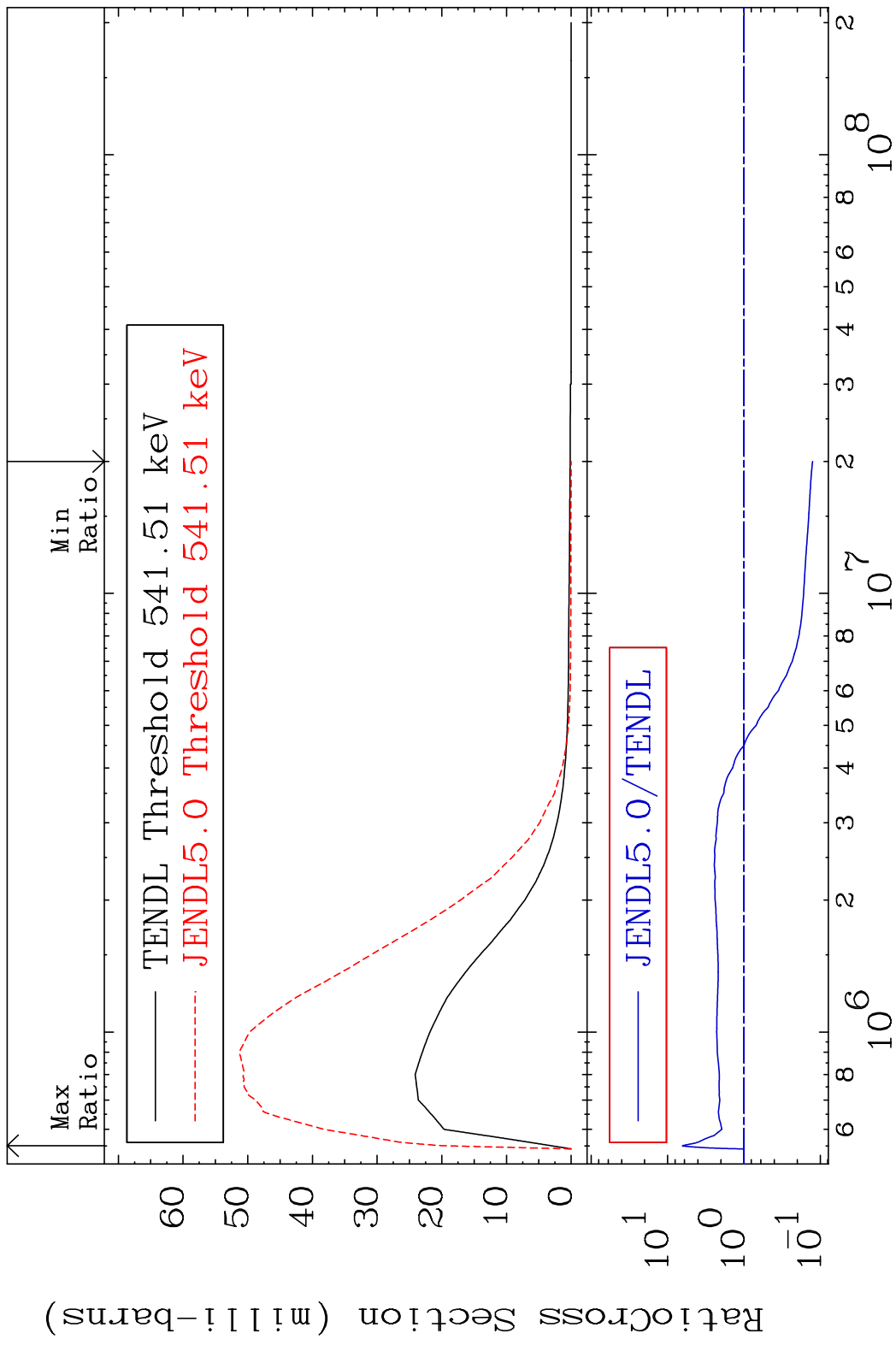
MAT 6155 MT= 64 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 354.7 %



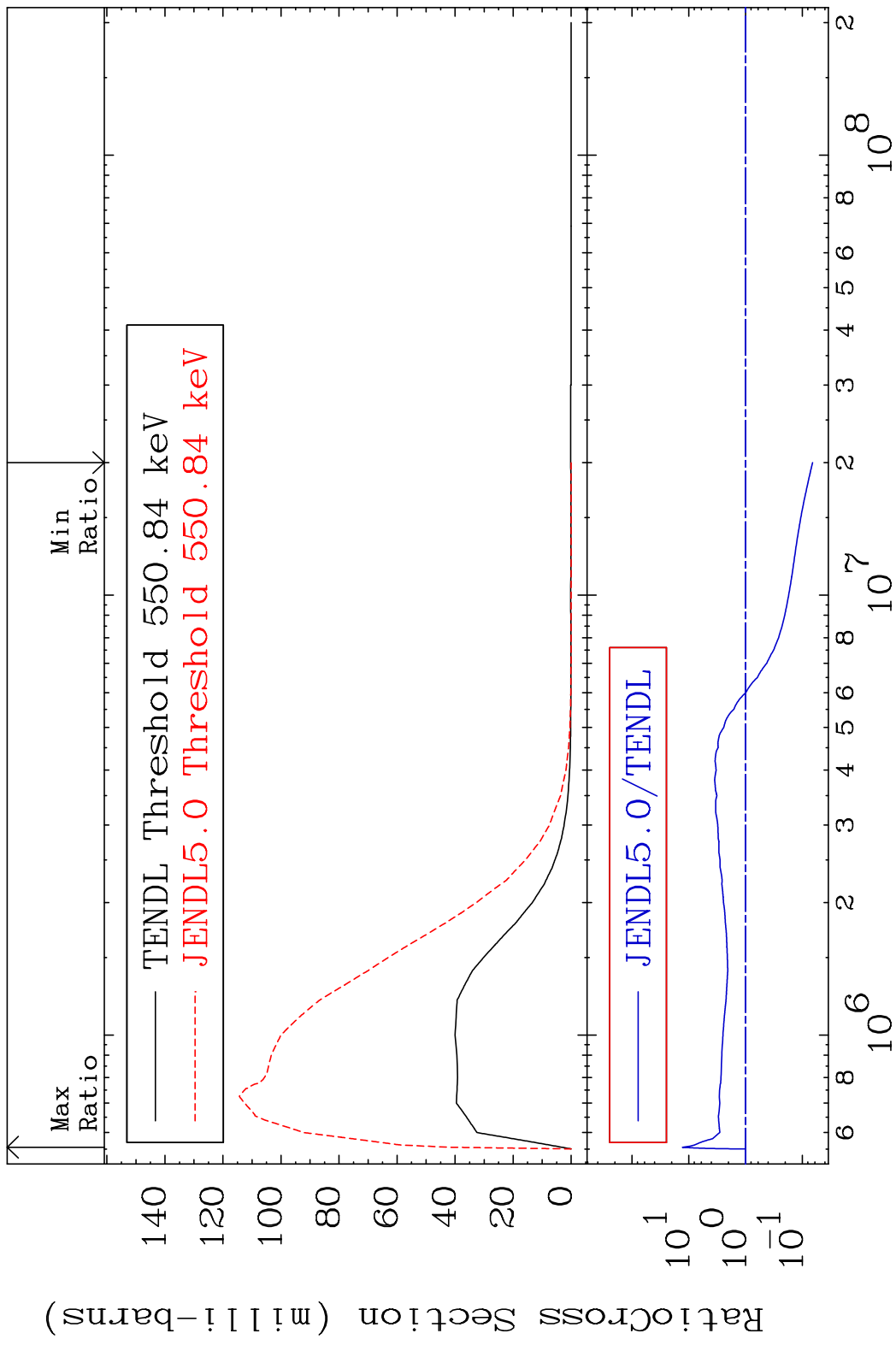
MAT 6155 MT= 65 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 176.4 %



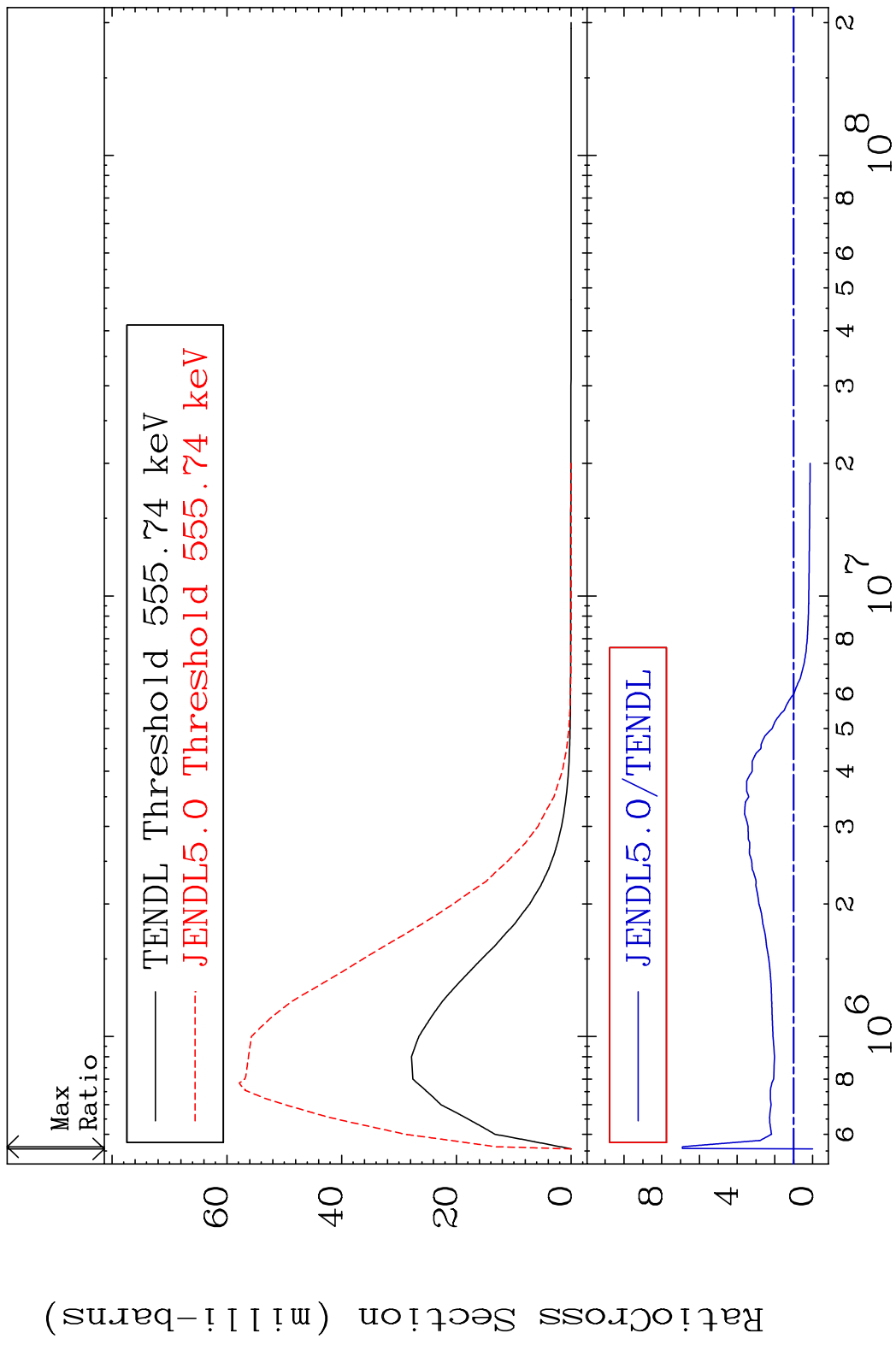
MAT 6155 MT= 66 (n, n') Level 61-Pm-149
 Cross Section -87.37 To 541.1 %



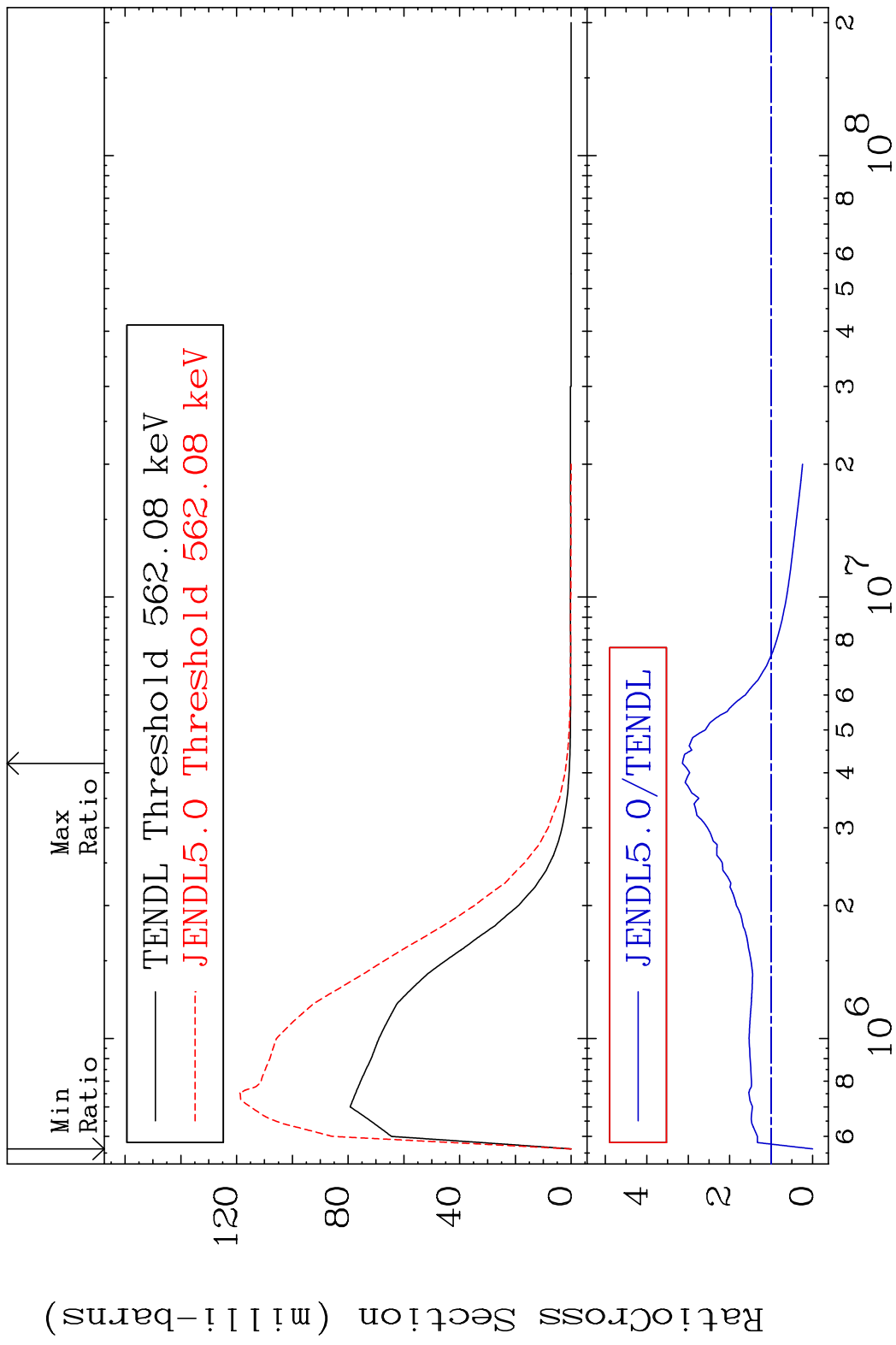
MAT 6155 MT= 67 (n, n') Level 61-Pm-149
 Cross Section -93.40 To 1196. %



MAT 6155 MT= 68 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 590.6 %

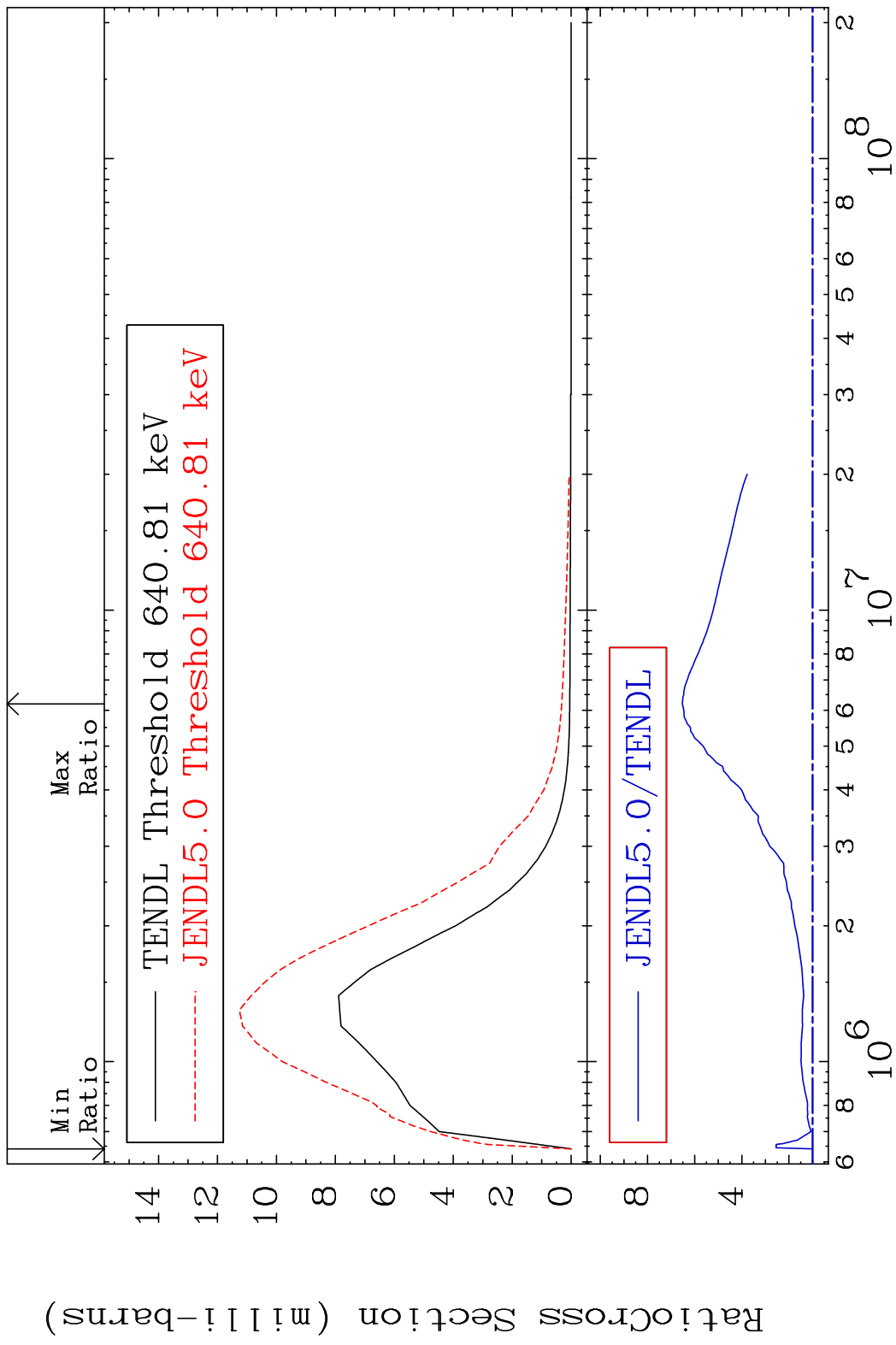


MAT 6155 MT= 69 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 214.3 %

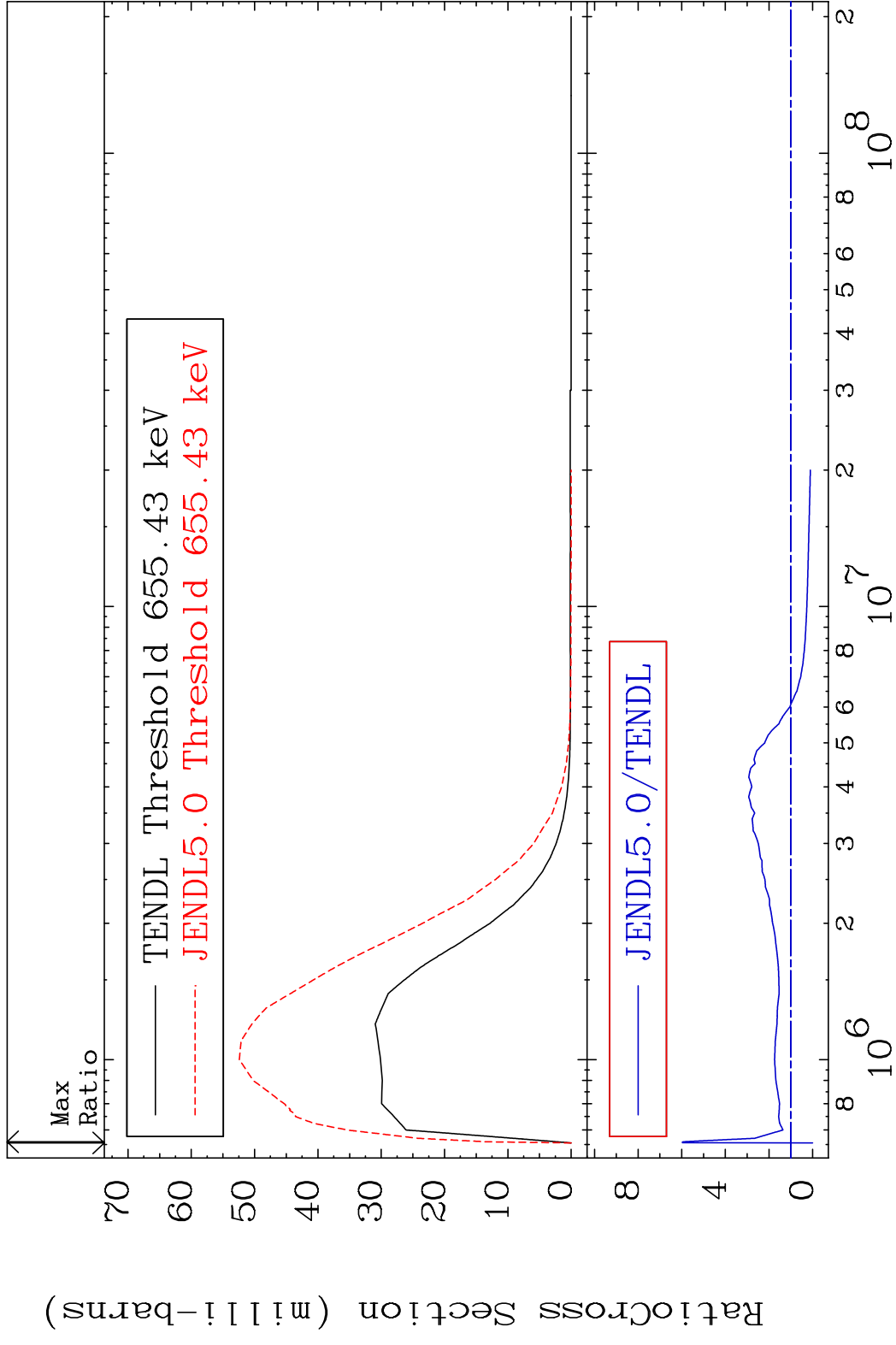


30 Incident Energy (eV) 61-Pm-149

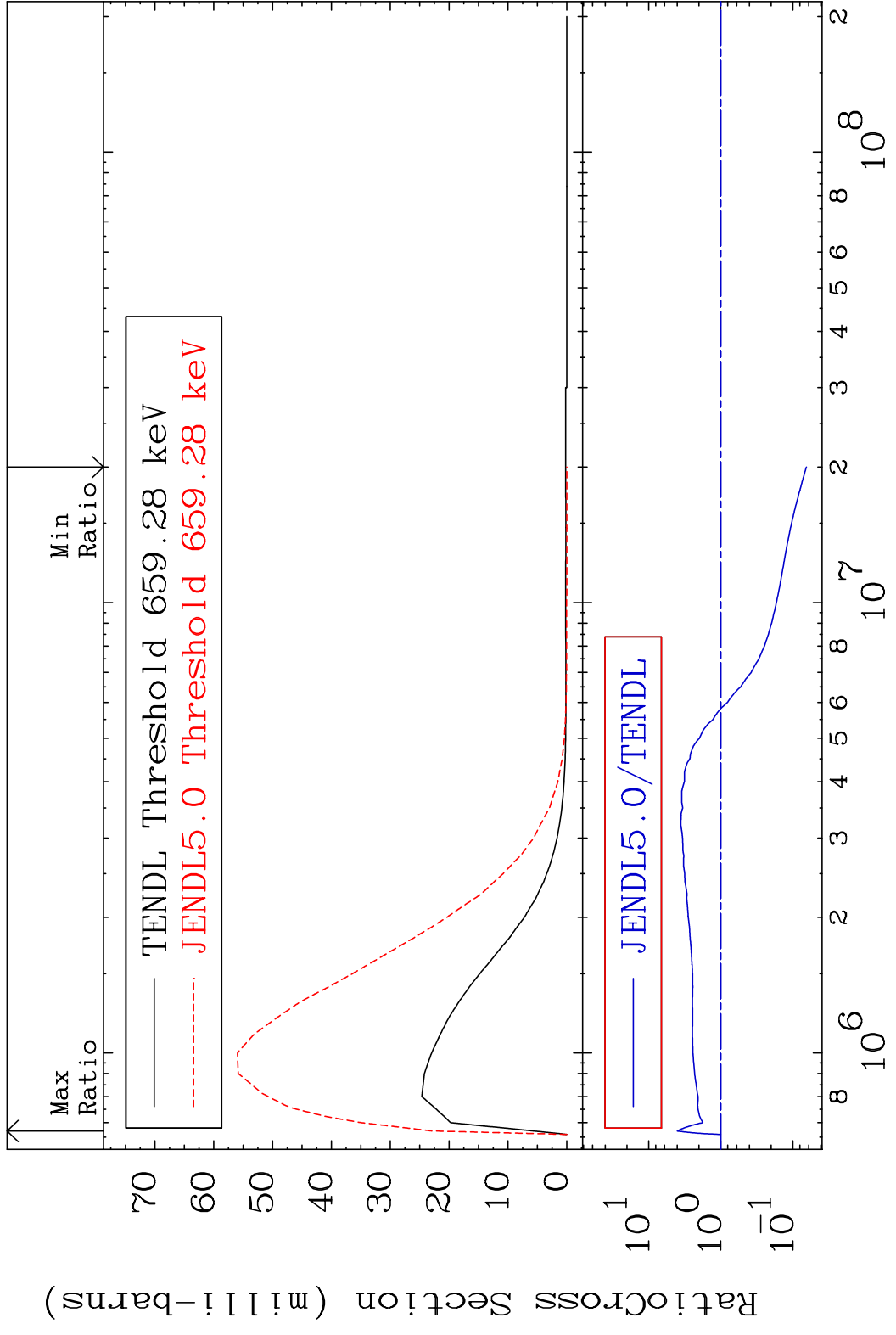
MAT 6155 MT= 70 (n, n') Level 61-Pm-149
 Cross Section 0.000 To 552.2 %



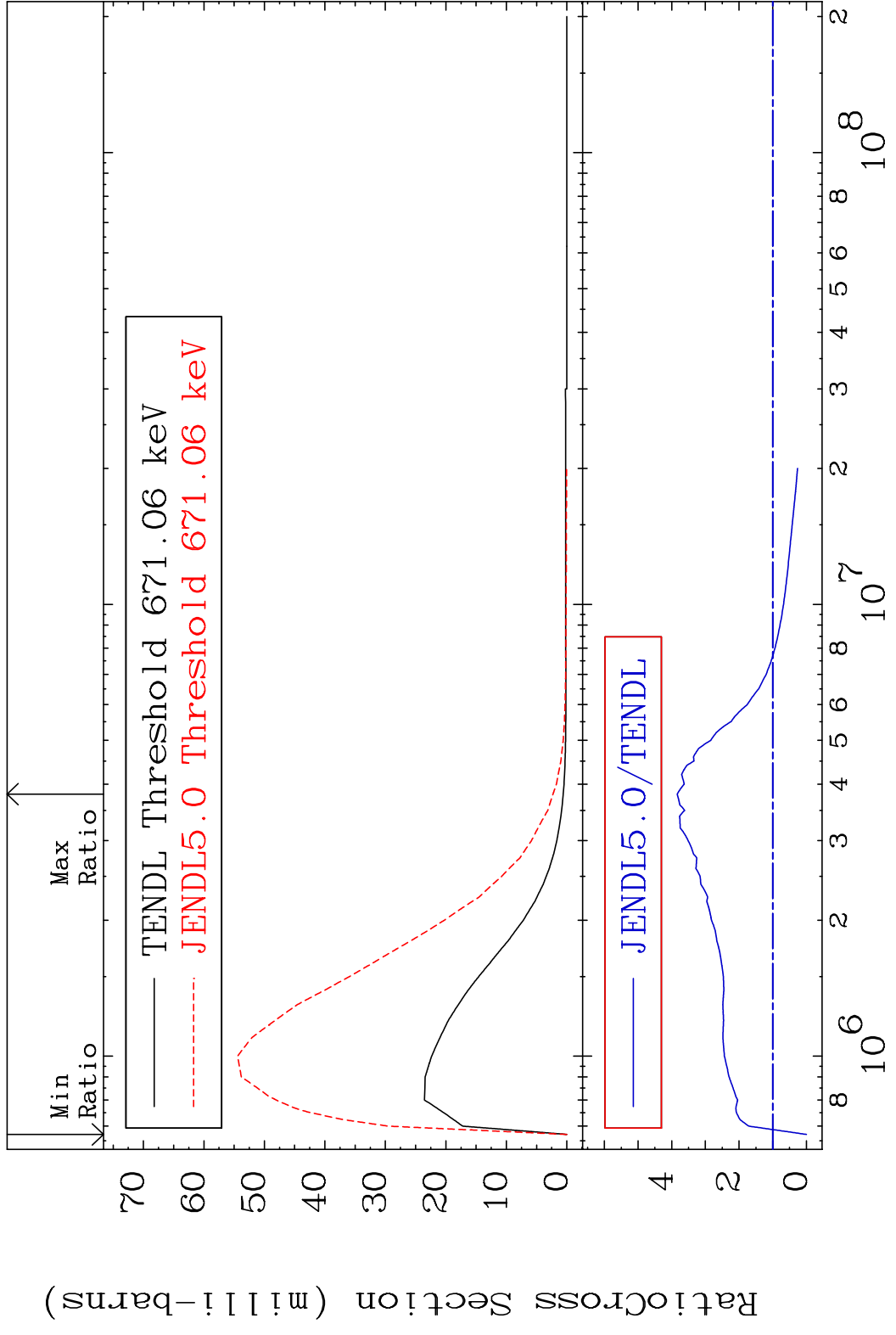
MAT 6155 MT= 71 (n,n') Level 61-Pm-149
 Cross Section -100.0 To 497.1 %



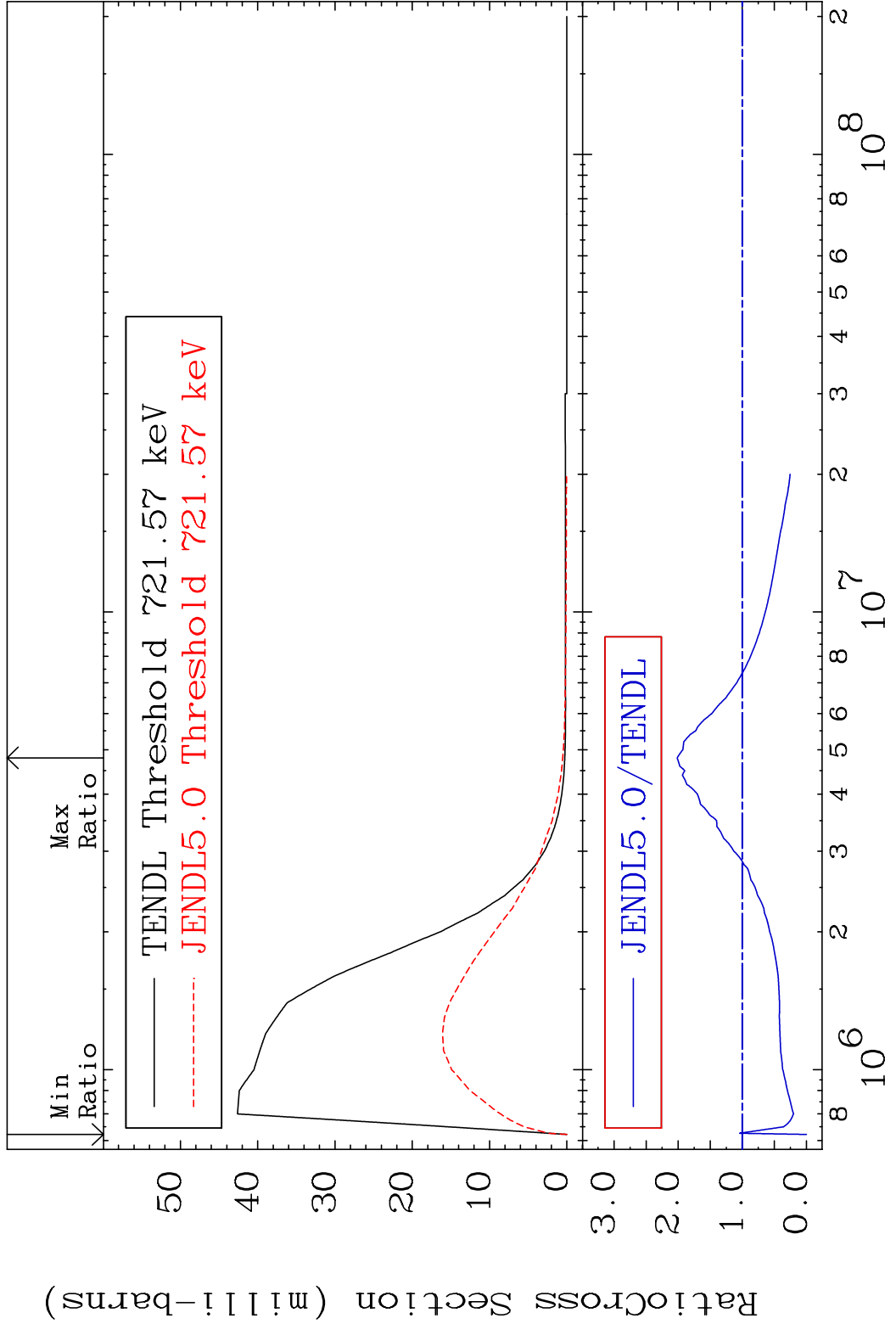
MAT 6155 MT= 72 (n, n') Level 61-Pm-149
 Cross Section -93.52 To 301.7 %



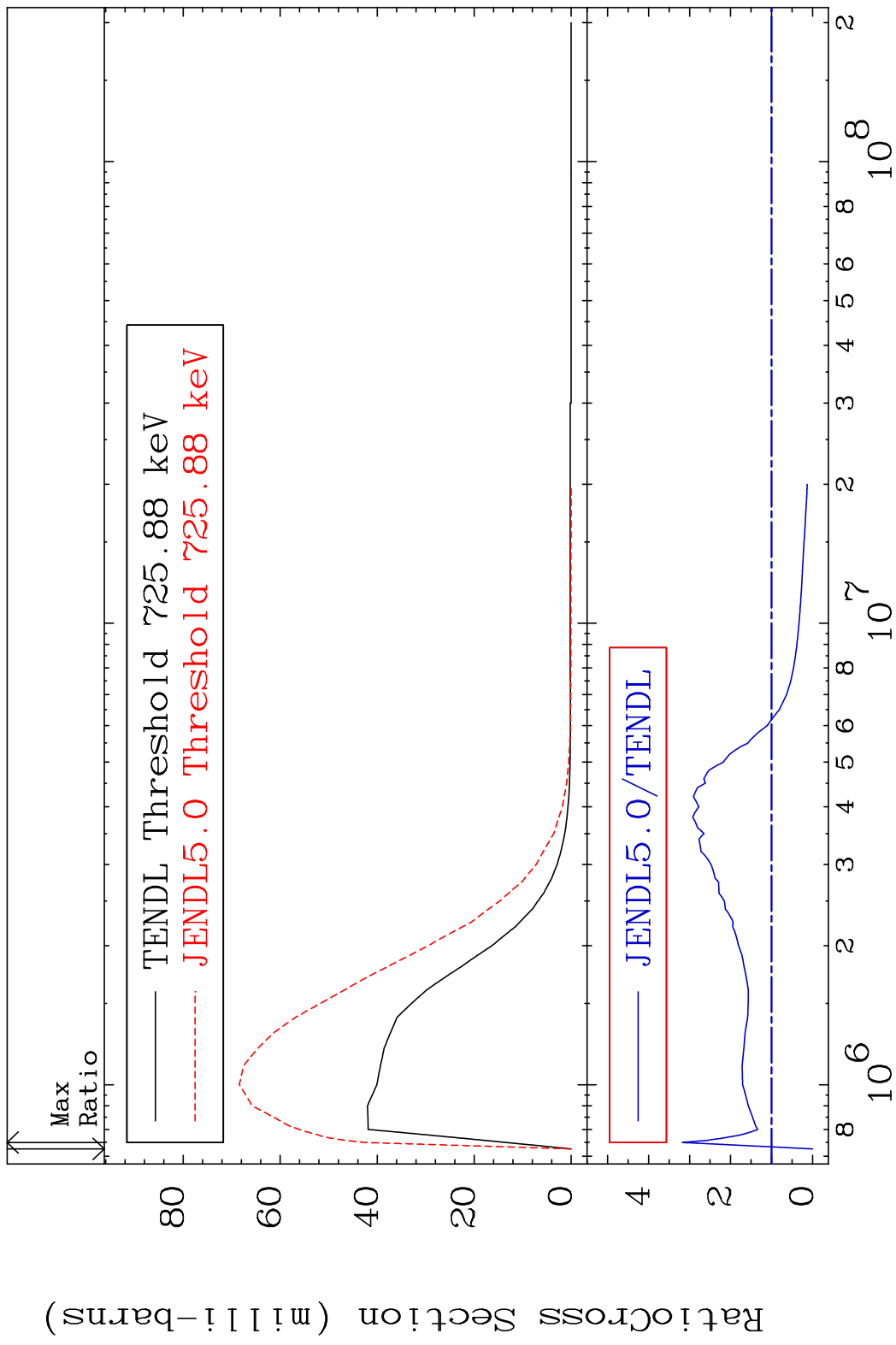
MAT 6155 MT= 73 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 283.8 %



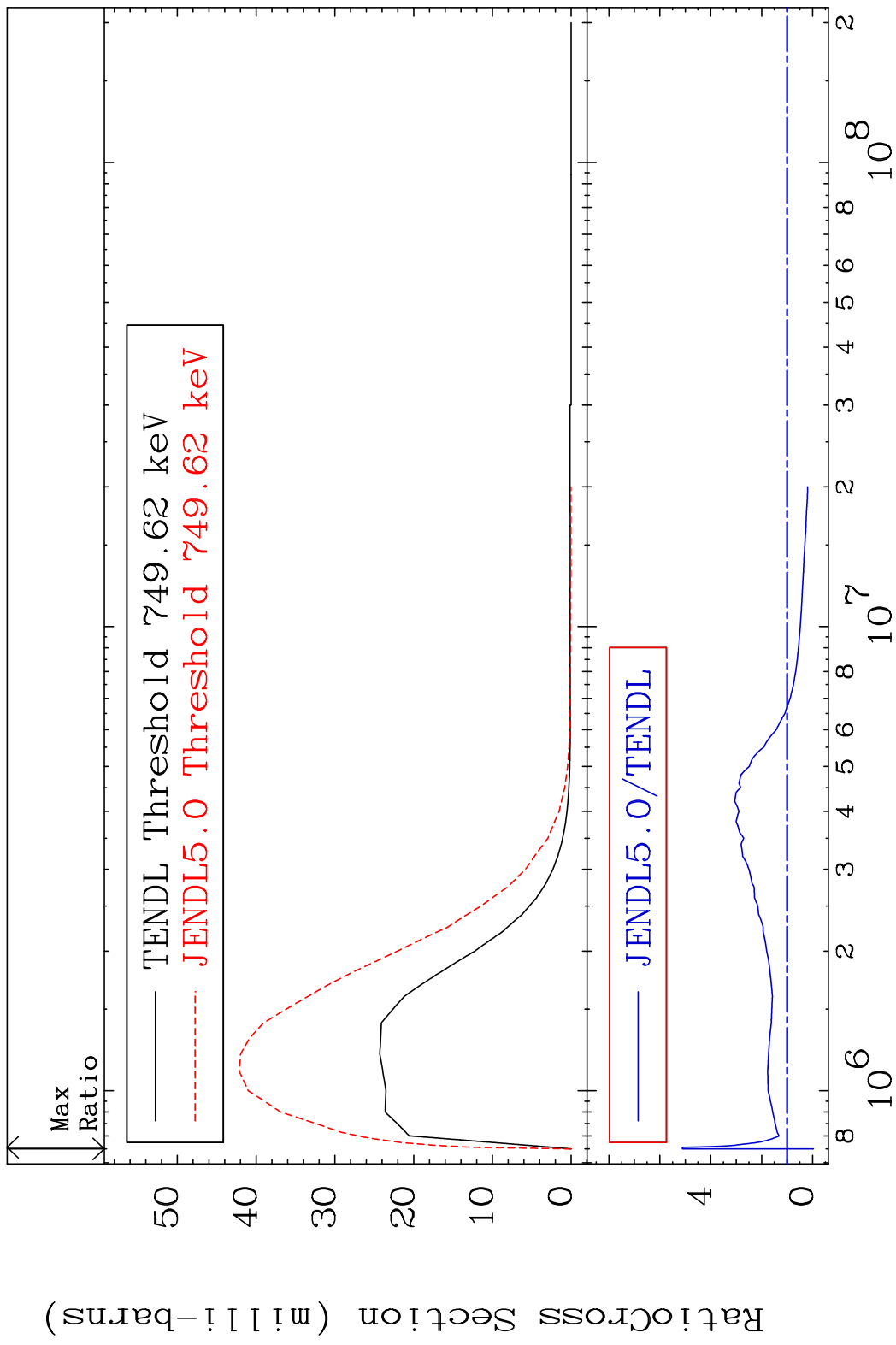
MAT 6155 MT= 74 (n,n') Level 61-Pm-149
 Cross Section -100.0 To 101.5 %



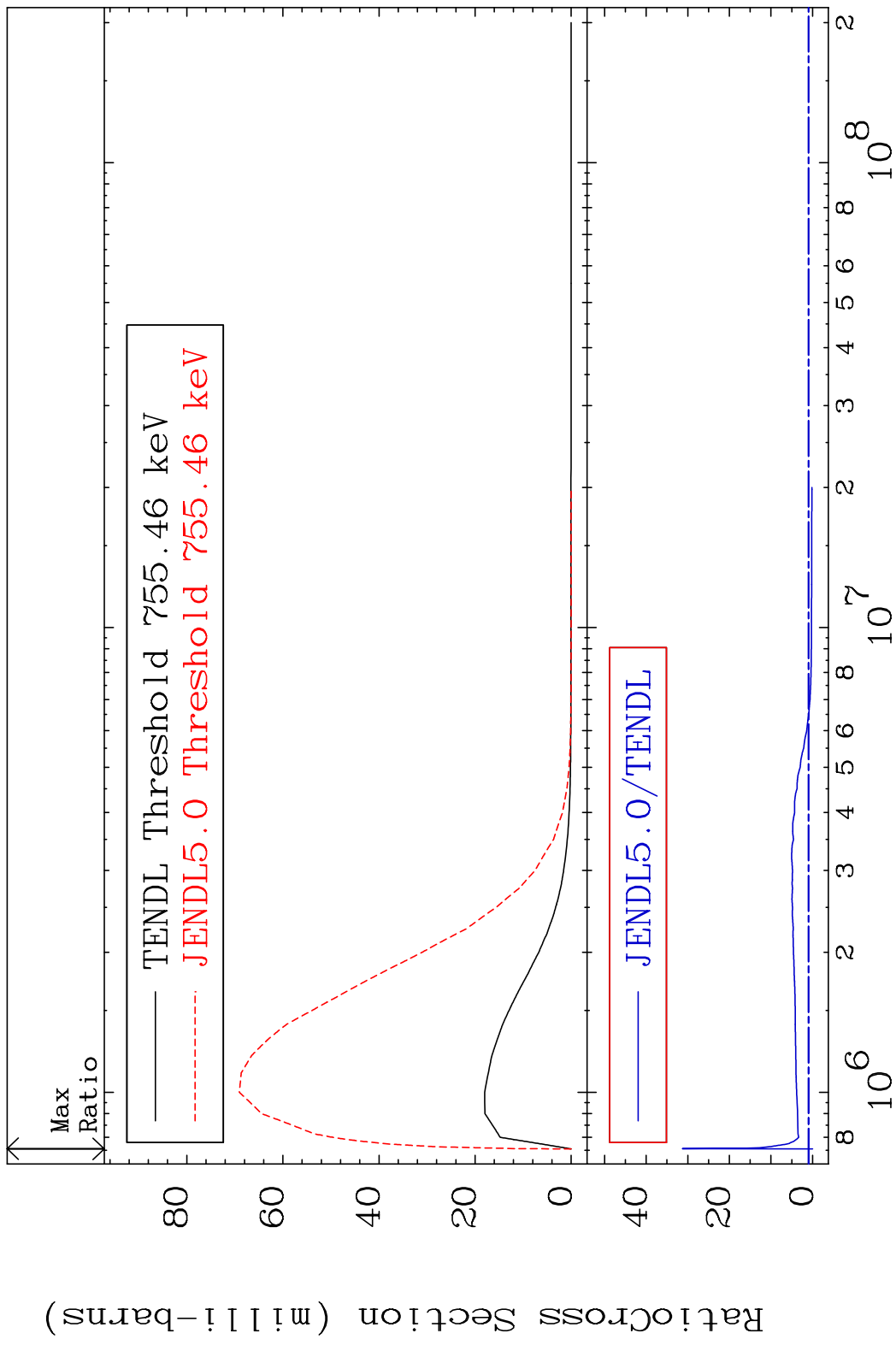
MAT 6155 MT= 75 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 217.7 %



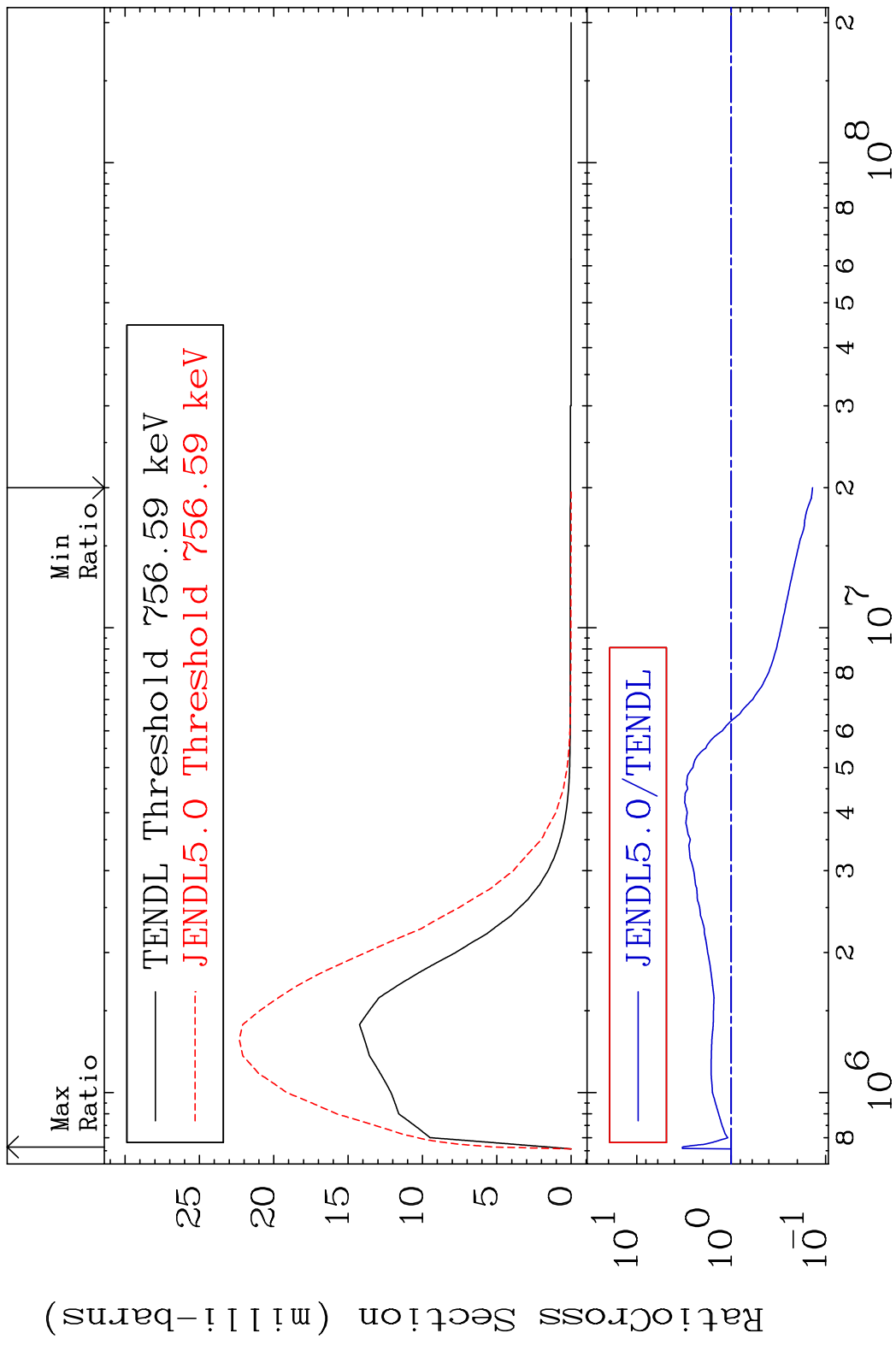
MAT 6155 MT= 76 (n,n') Level 61-Pm-149
 Cross Section -100.0 To 411.5 %



MAT 6155 MT= 77 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 3030. %

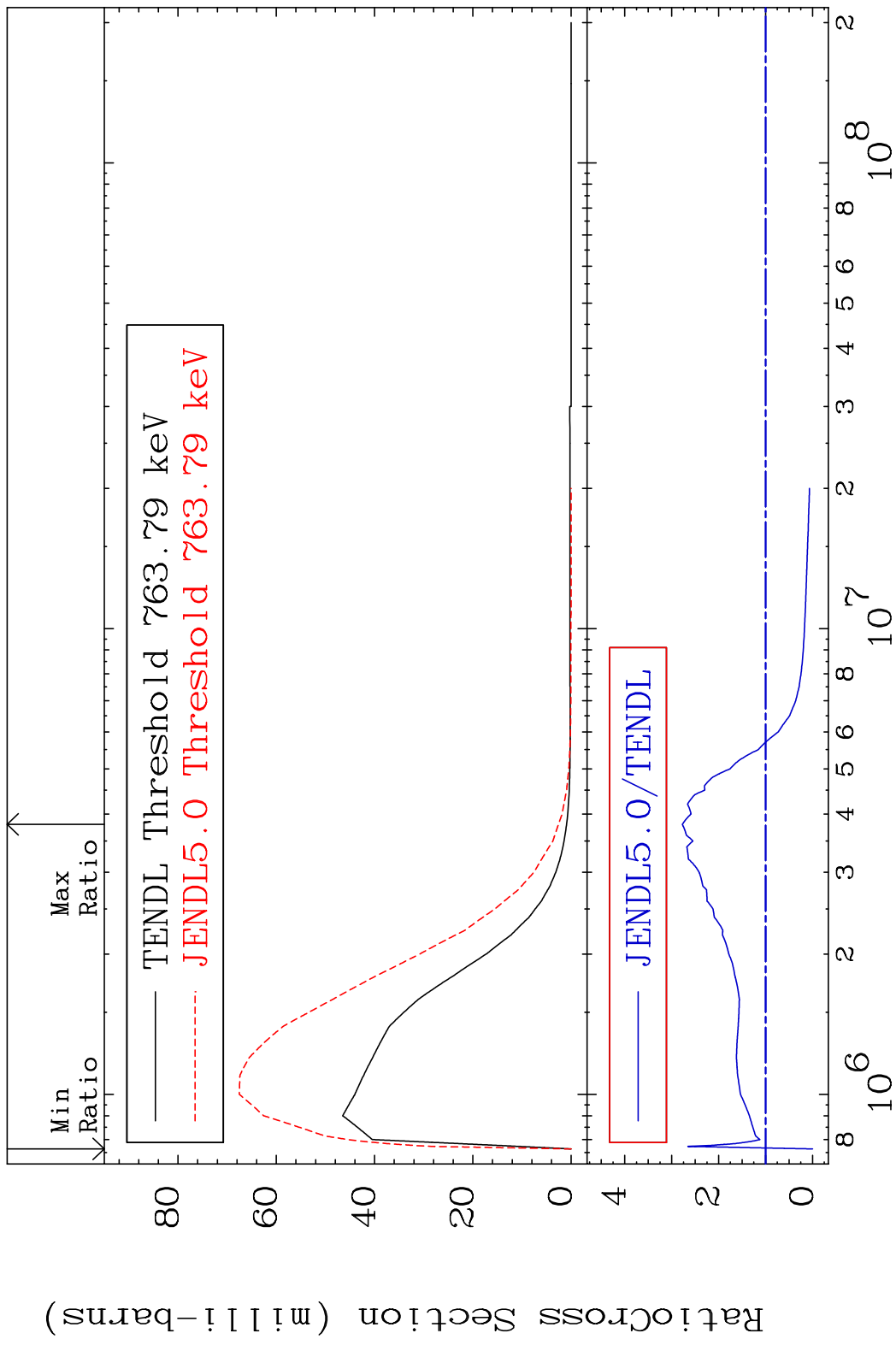


MAT 6155 MT= 78 (n, n') Level 61-Pm-149
 Cross Section -86.22 To 229.7 %



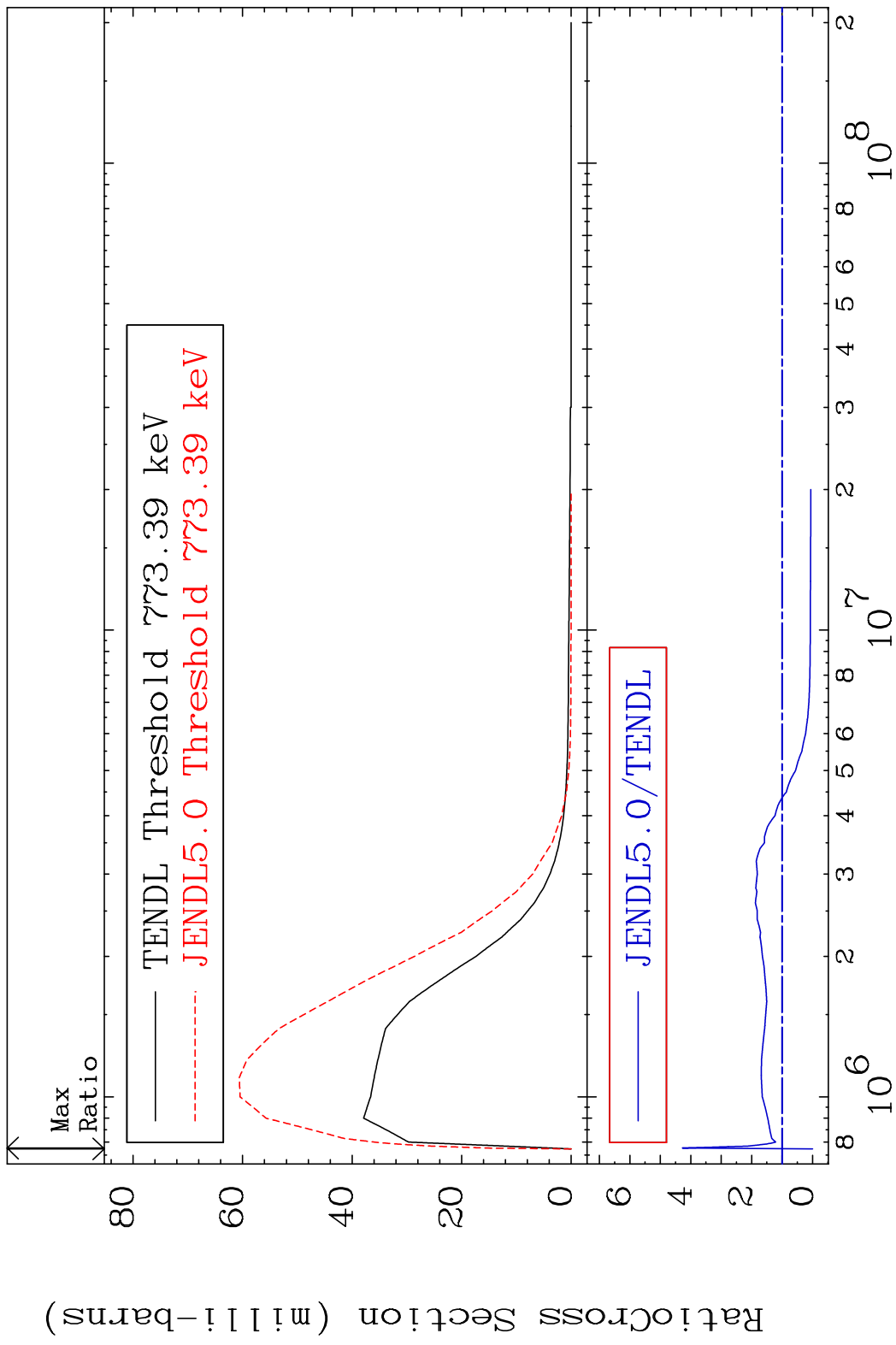
39 Incident Energy (eV) 61-Pm-149

MAT 6155 MT= 79 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 177.3 %



40 80 60 40 20 0 4 2 0 8 10⁶ 10⁷ 10⁸ 2 3 4 5 6 8 10 20 40 60 80 100 120 140 160 180 200

MAT 6155 MT= 80 (n, n') Level 61-Pm-149
 Cross Section -100.0 To 327.6 %



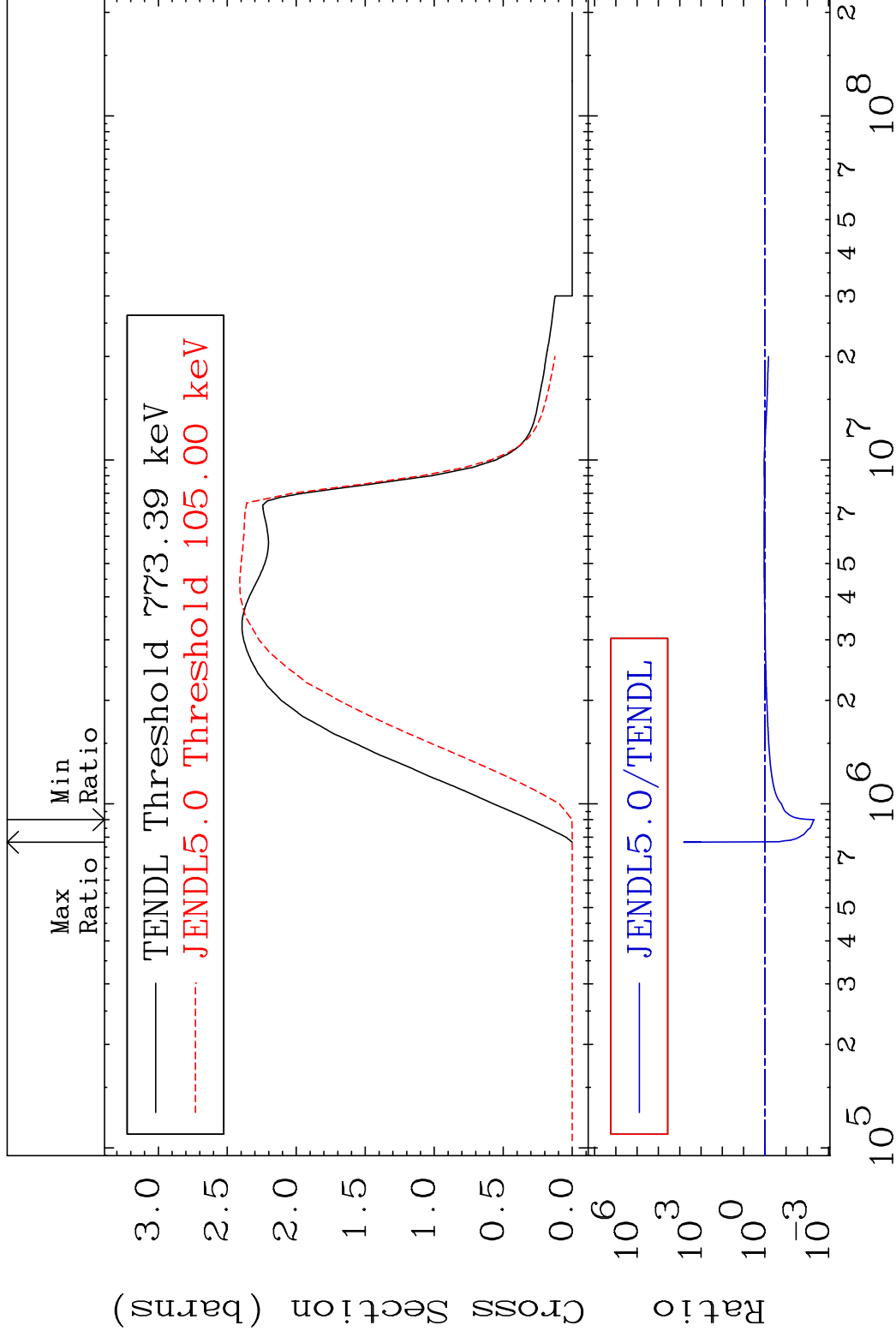
41 Incident Energy (eV) 61-Pm-149

MAT 6155

(n, n') Continuum

61-Pm-149

Cross Section -99.52 To 9999. %



42

Incident Energy (eV)

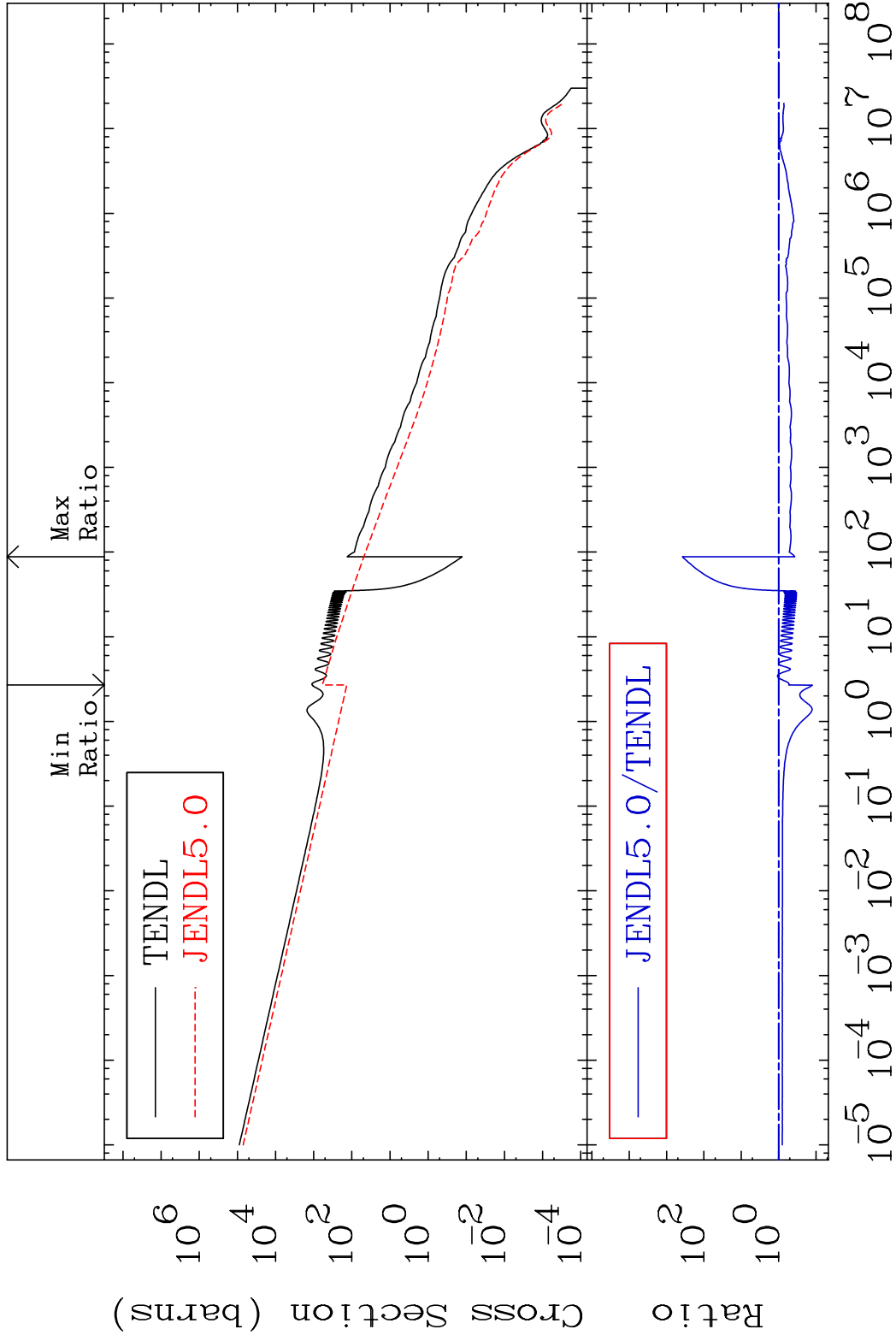
61-Pm-149

MAT 6155

(n, γ)

61-Pm-149

Cross Section -87.70 To 9999. %

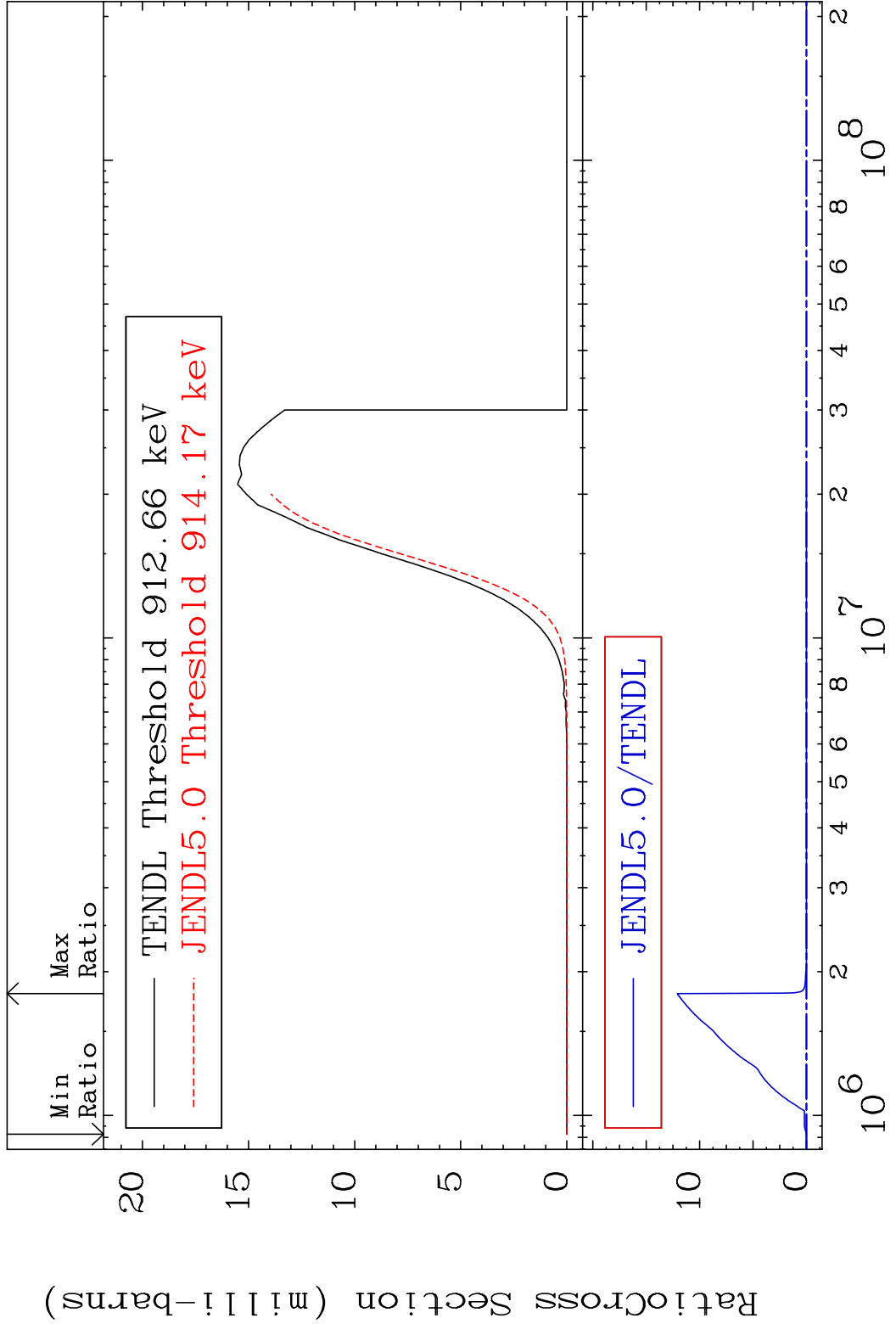


43

Incident Energy (eV)

61-Pm-149

MAT 6155 (n,p) 61-Pm-149
 Cross Section -100.0 To 9999. %



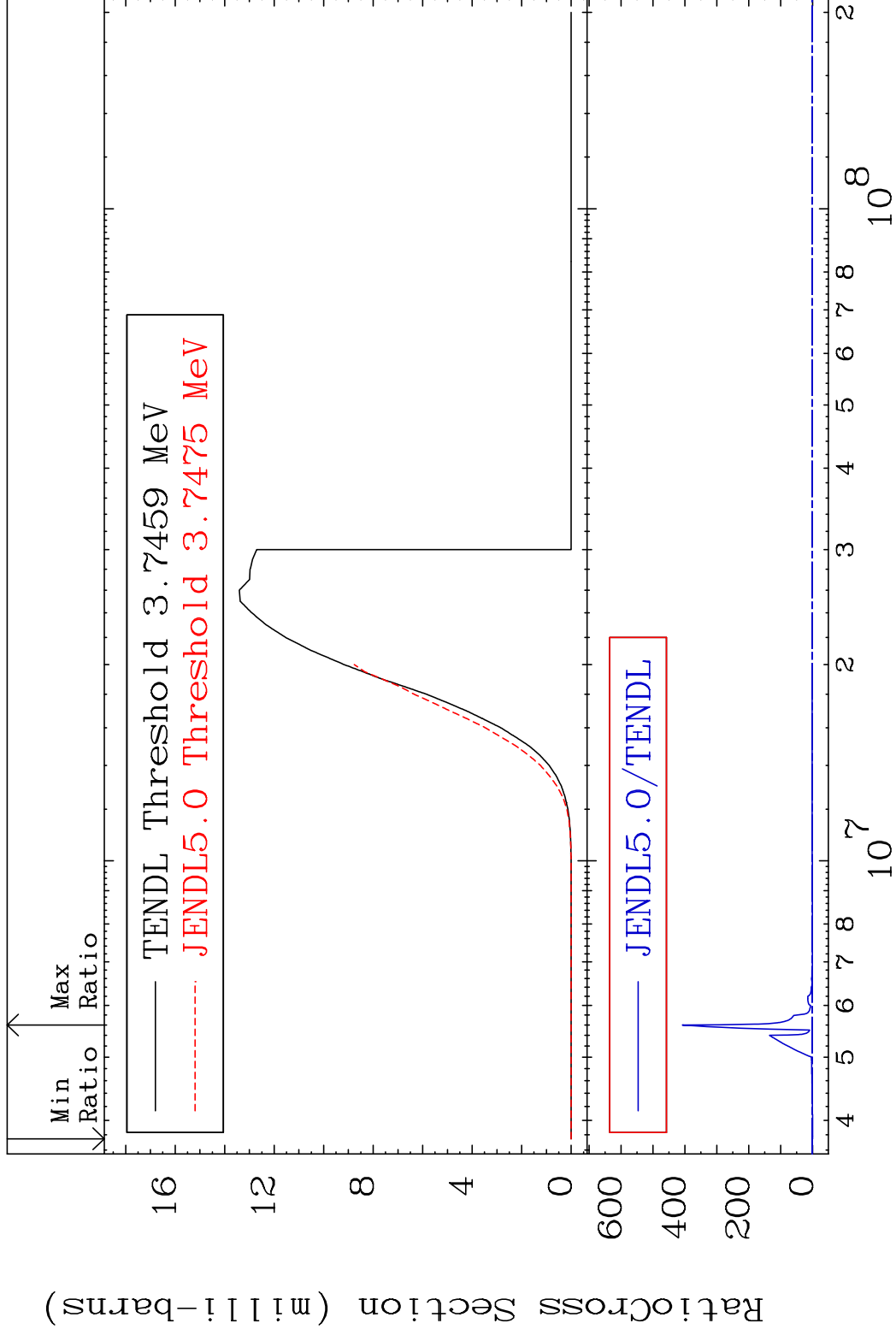
44 Incident Energy (eV) 61-Pm-149

MAT 6155

(n,d)

61-Pm-149

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

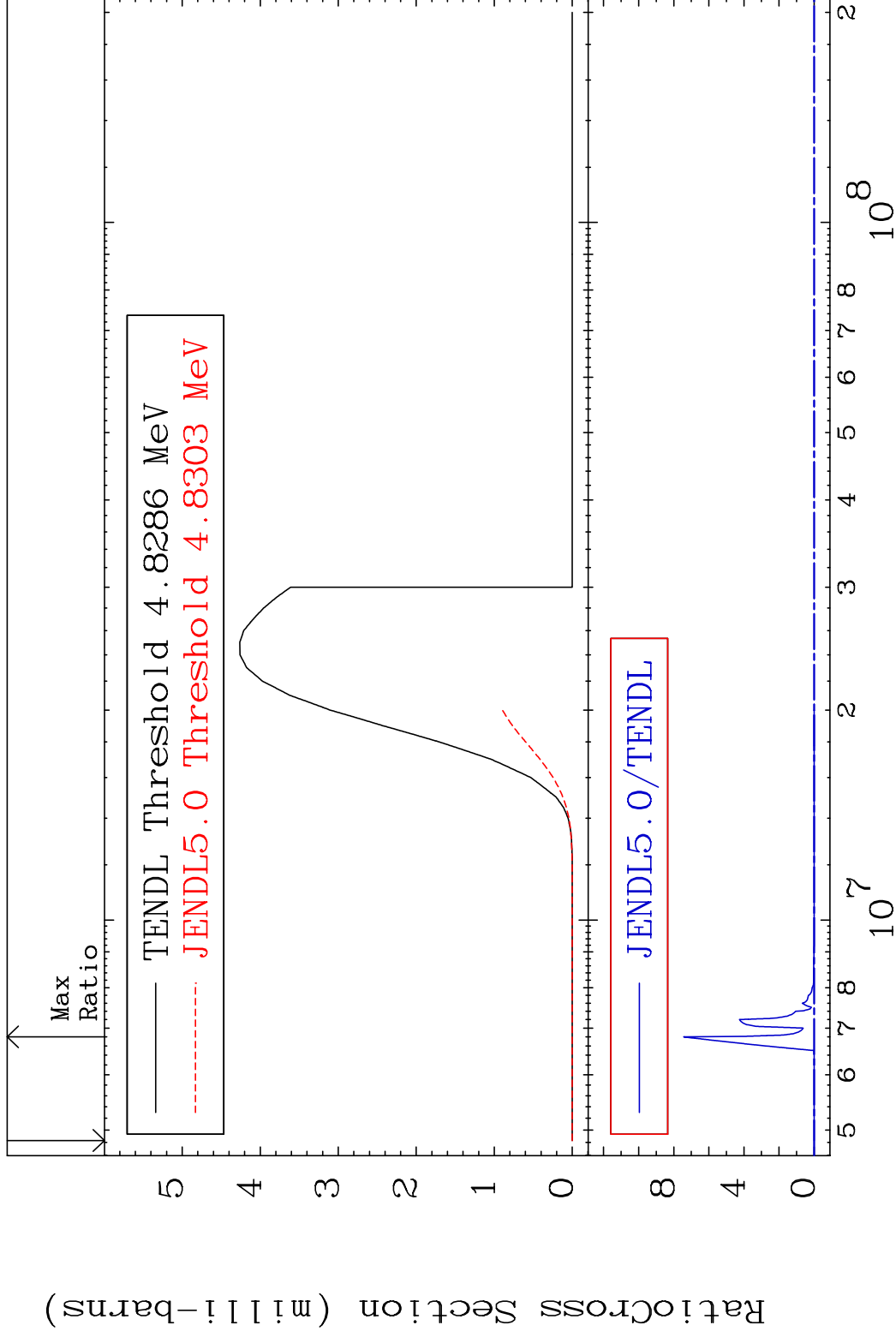
61-Pm-149

MAT 6155

(n, t)

61-Pm-149

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

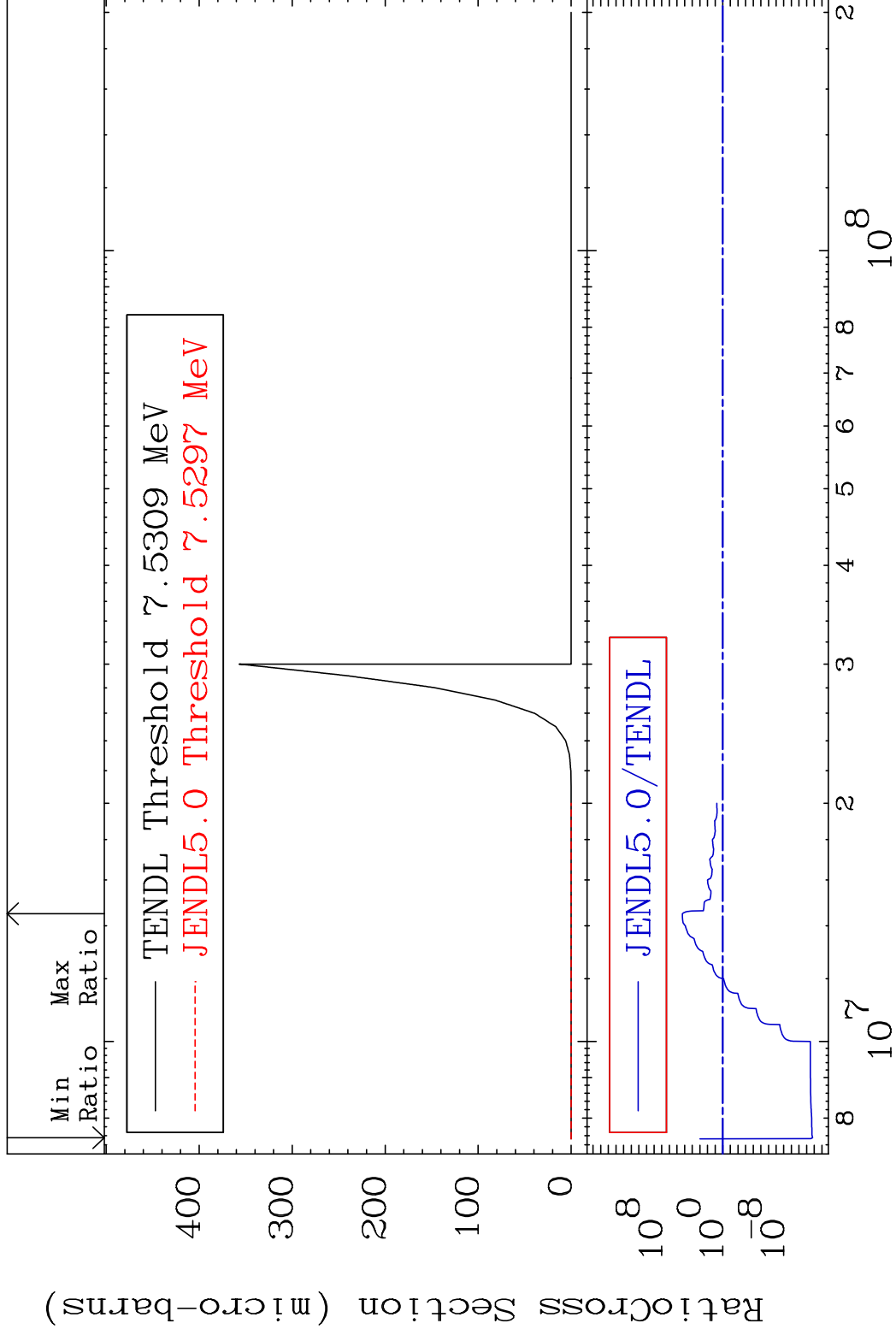
61-Pm-149

MAT 6155

(n, He-3)

61-Pm-149

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

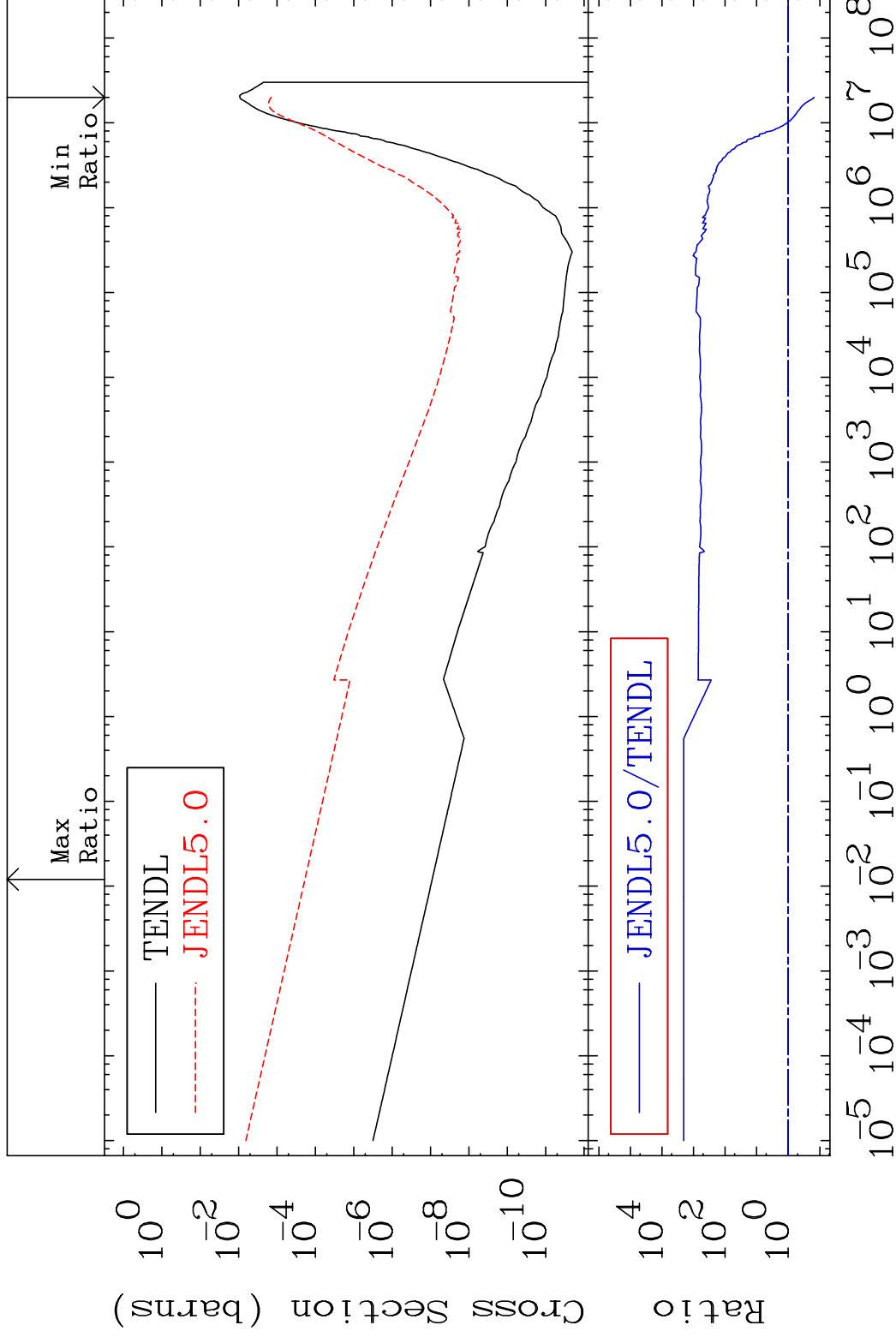
61-Pm-149

MAT 6155

(n, α)

61-Pm-149

Cross Section -84.89 To 9999. %



48

Incident Energy (eV)

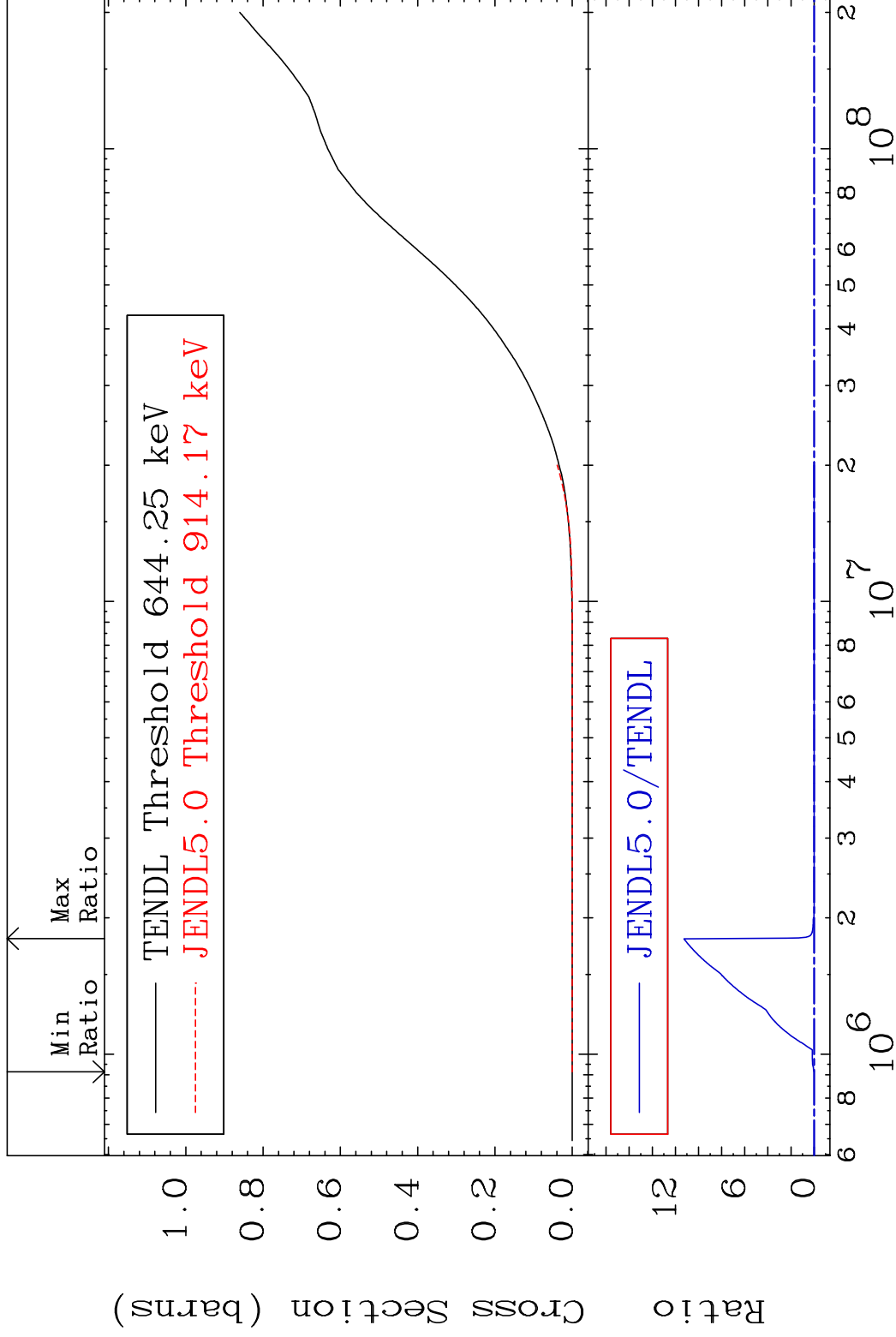
61-Pm-149

MAT 6155

Hydrogen Production

61-Pm-149

Cross Section -100.0 To 9999. %



49

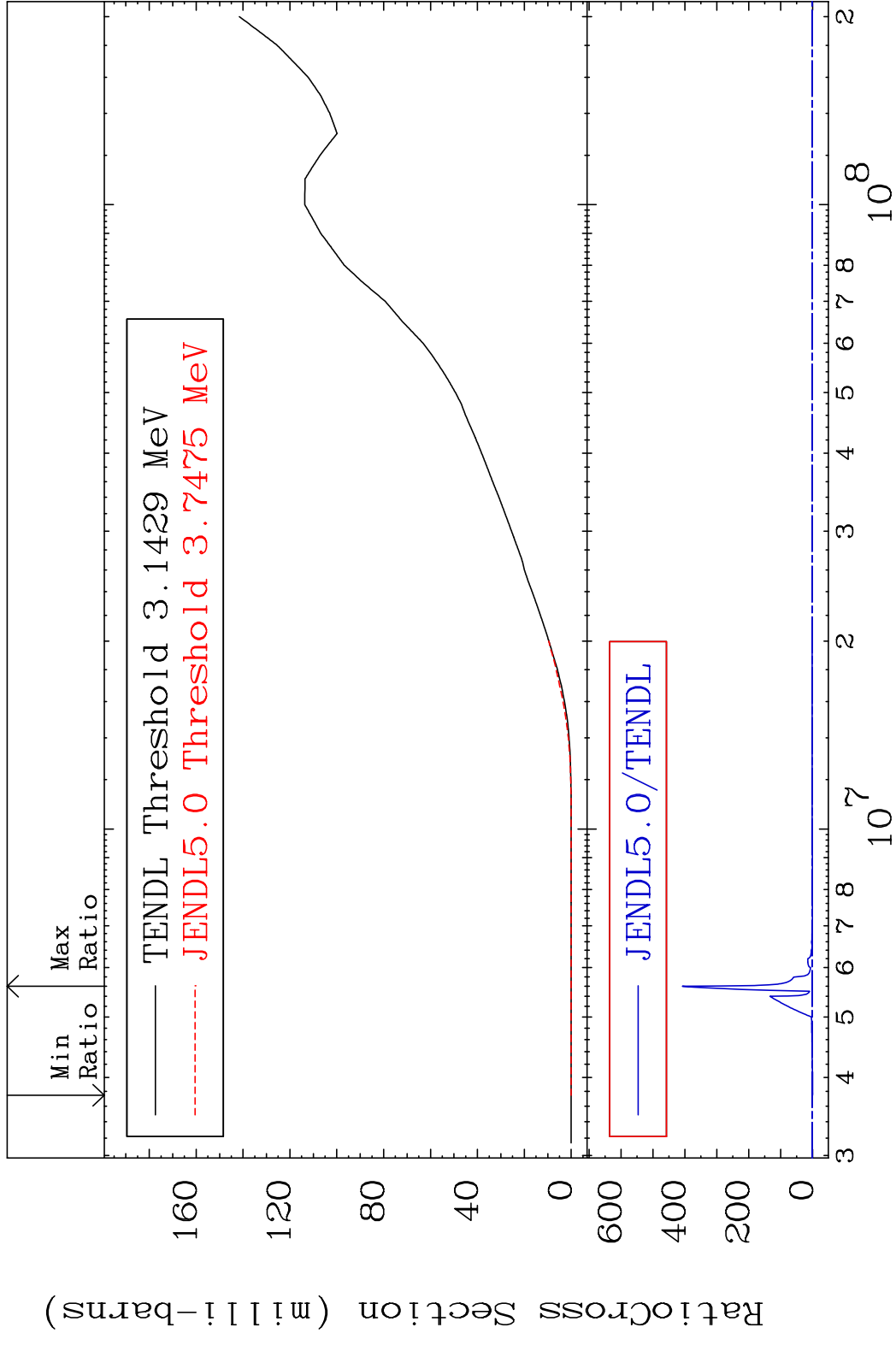
Incident Energy (eV)

61-Pm-149

MAT 6155

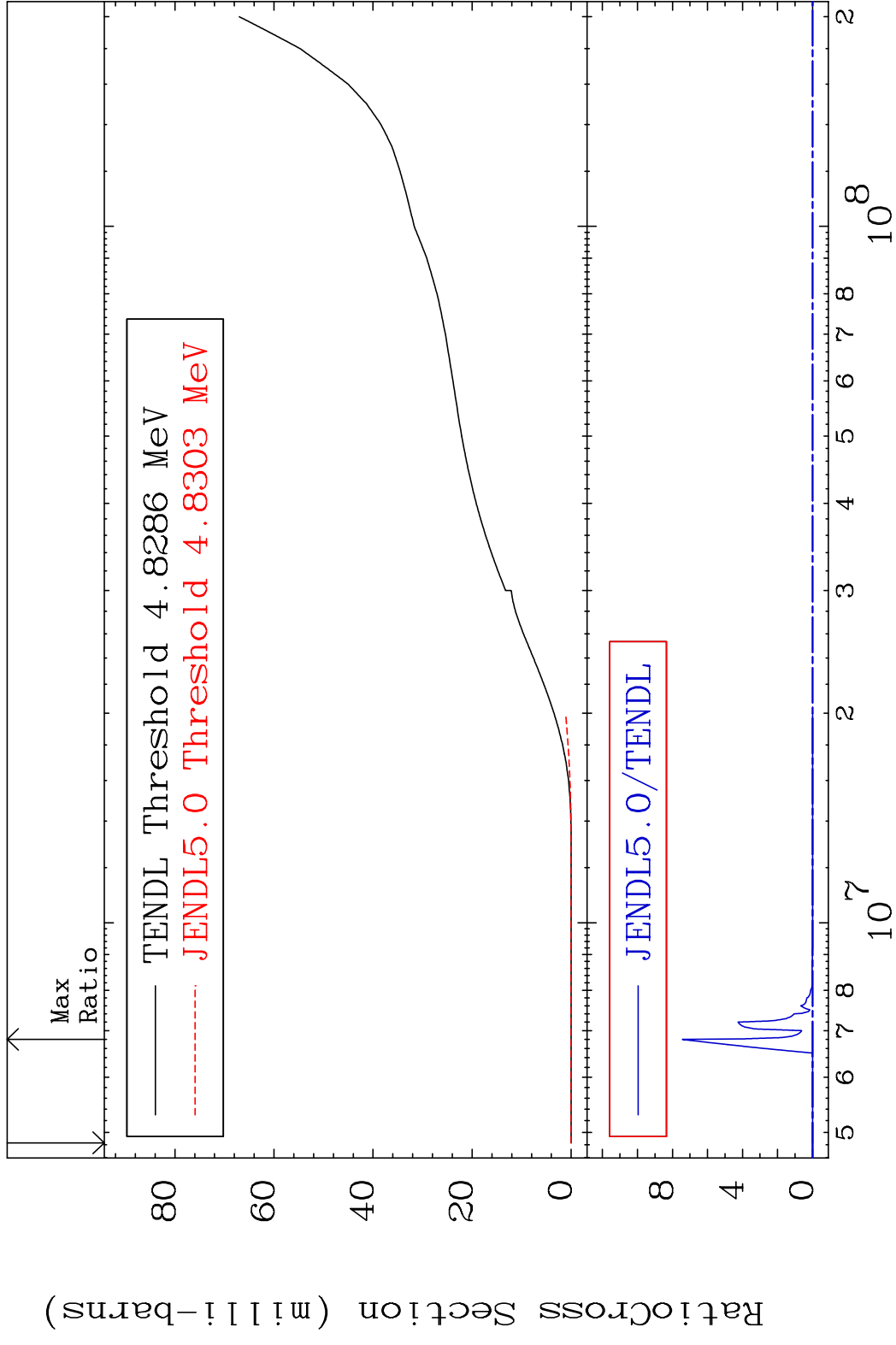
Deuterium Production 61-Pm-149

Cross Section -100.0 To 9999. %



MAT 6155

Tritium Production 61-Pm-149
Cross Section -100.0 To 9999. %

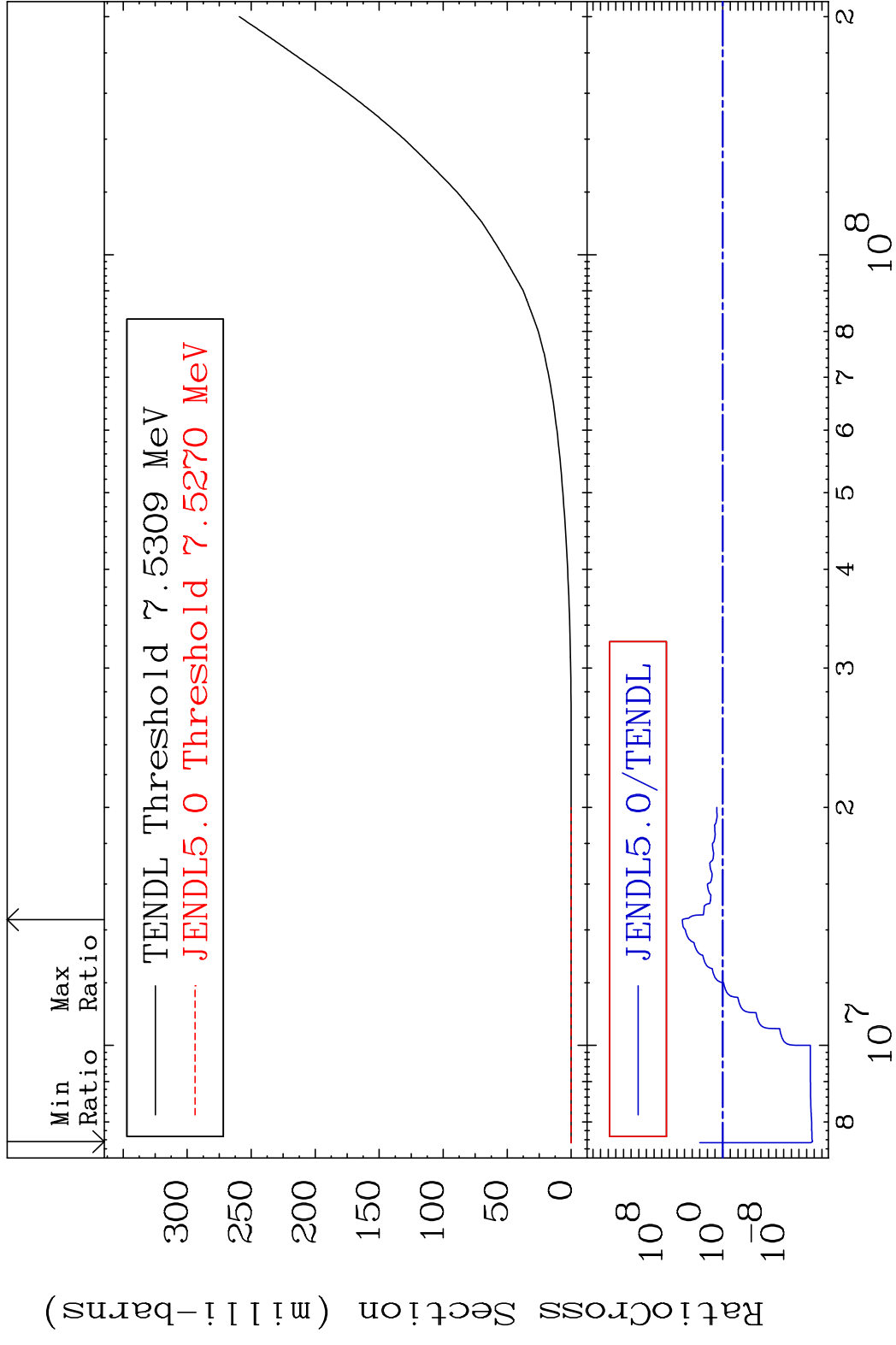


MAT 6155

He-3 Production

61-Pm-149

Cross Section -100.0 To 9999. %

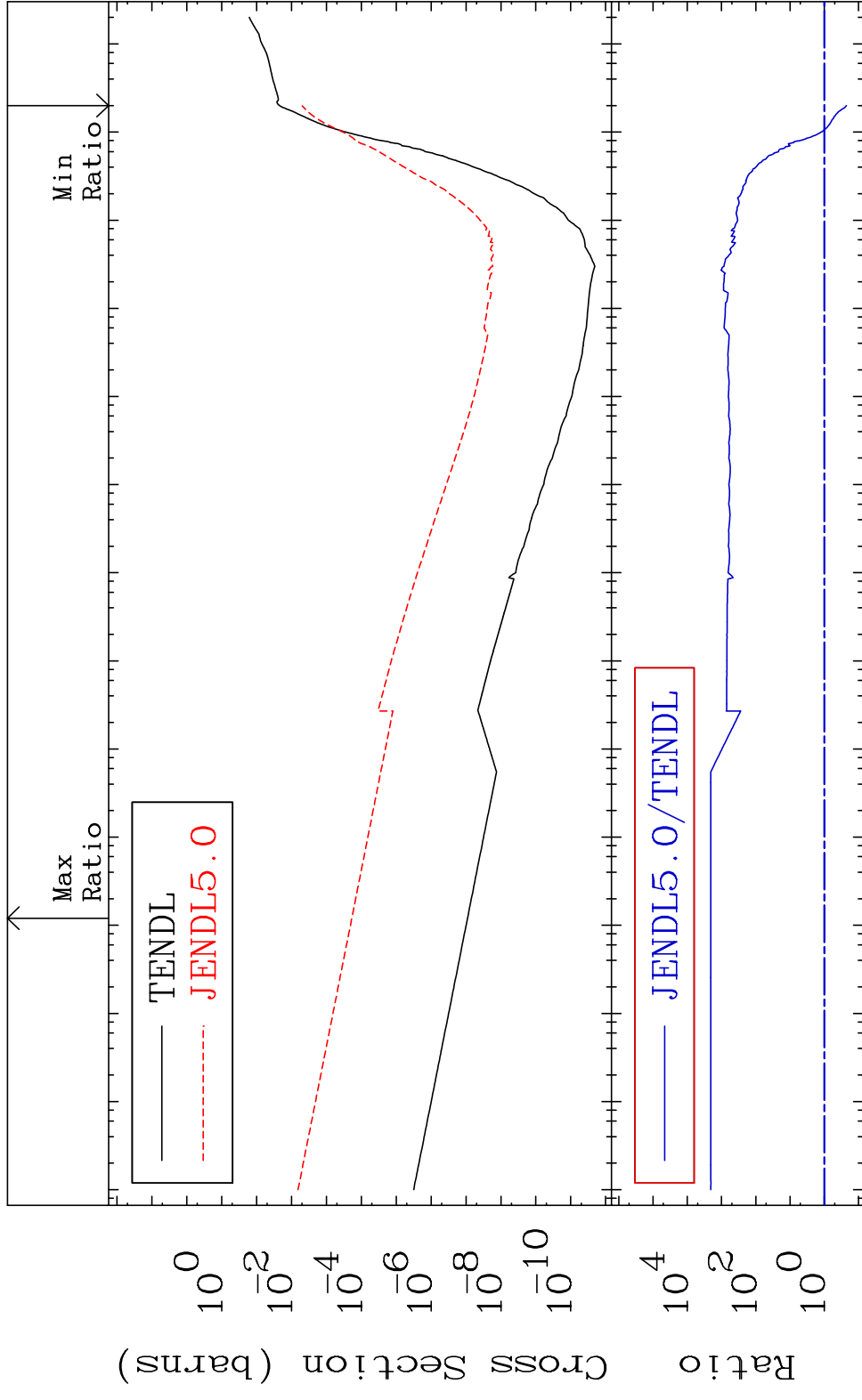


MAT 6155

He-4 Production

61-Pm-149

Cross Section -77.18 To 9999. %



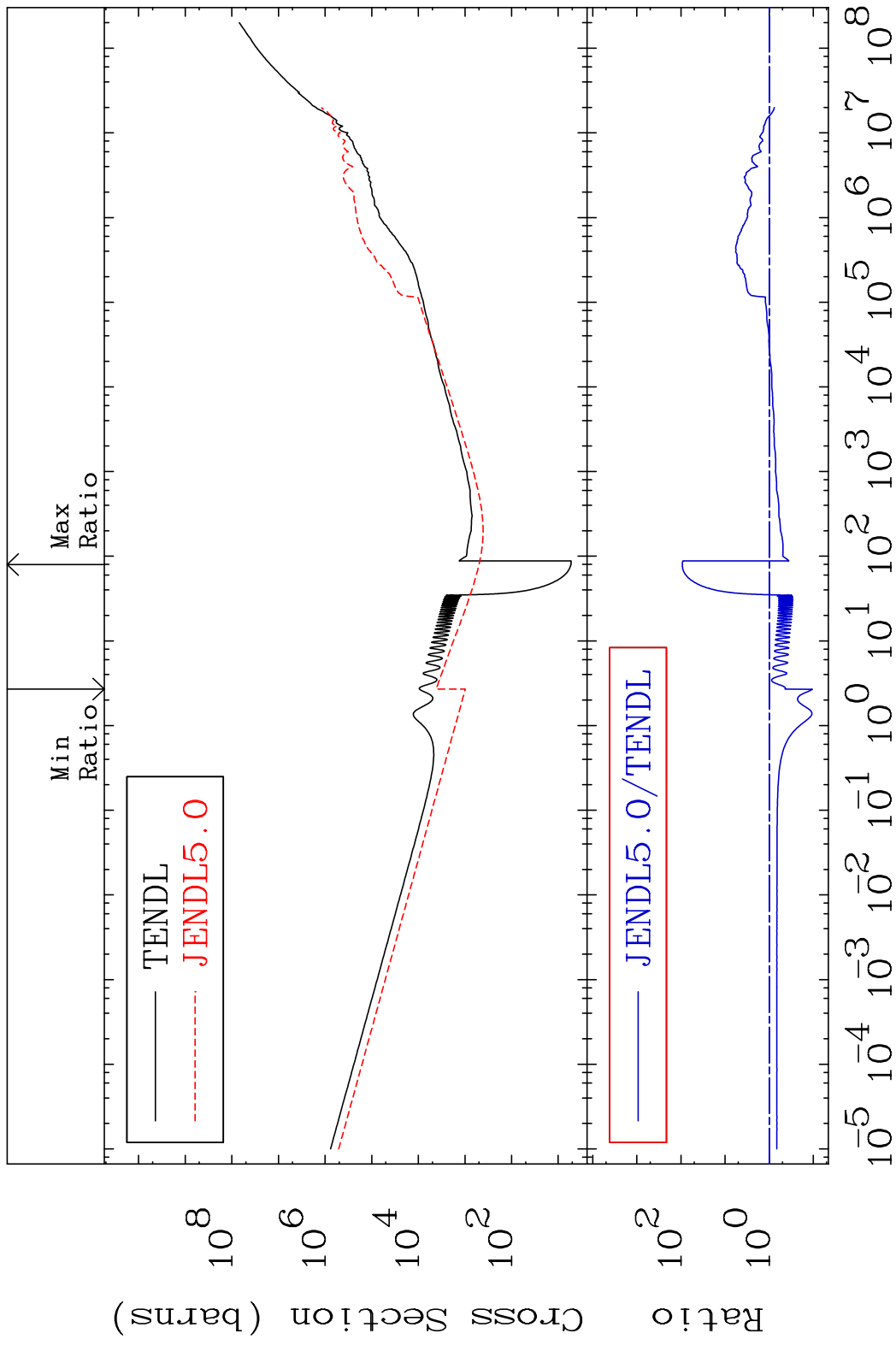
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

53

Incident Energy (eV)

61-Pm-149

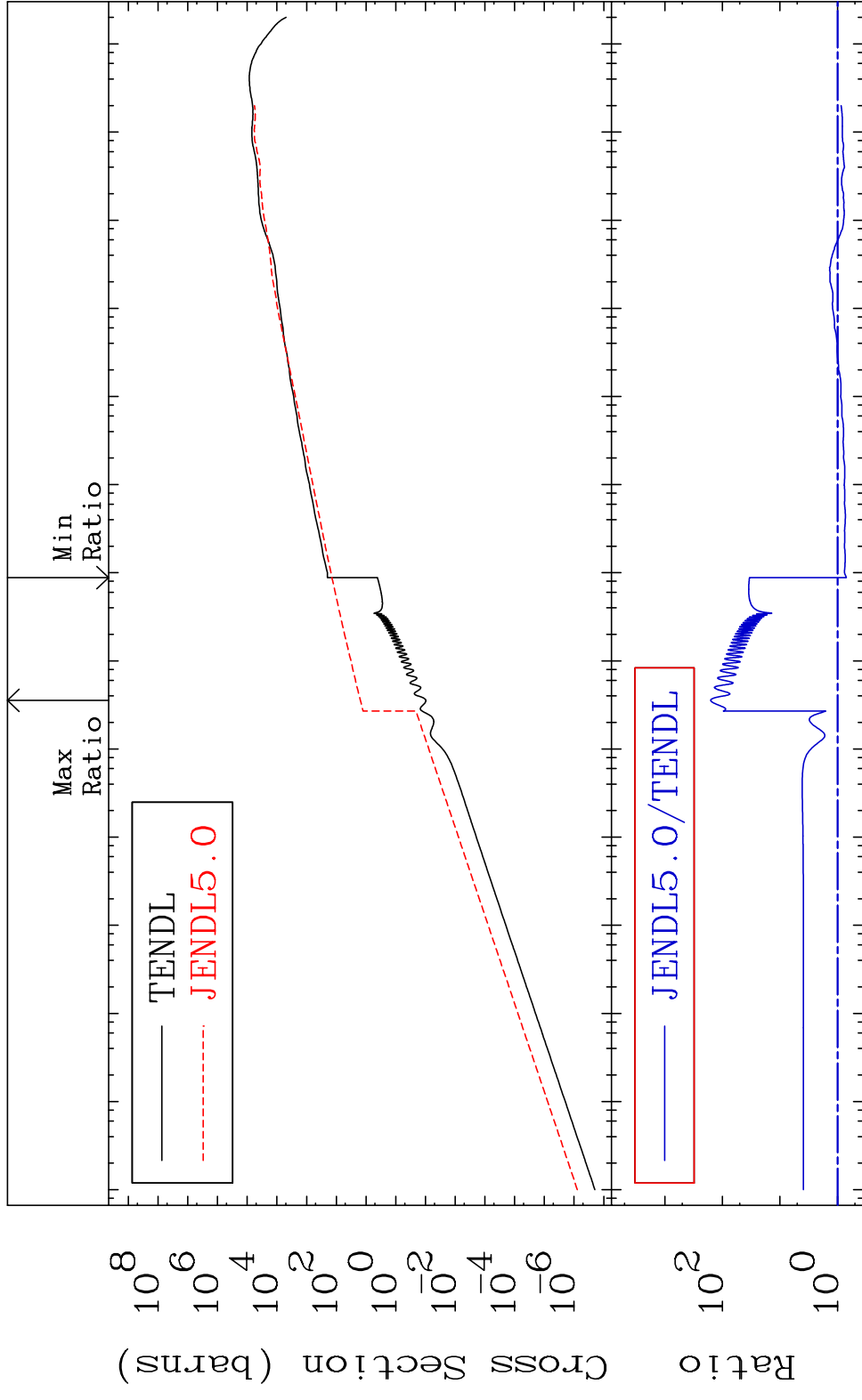
MAT 6155 Kerma total (eV-barns) 61-Pm-149
 Cross Section -89.60 To 9208. %



MAT 6155

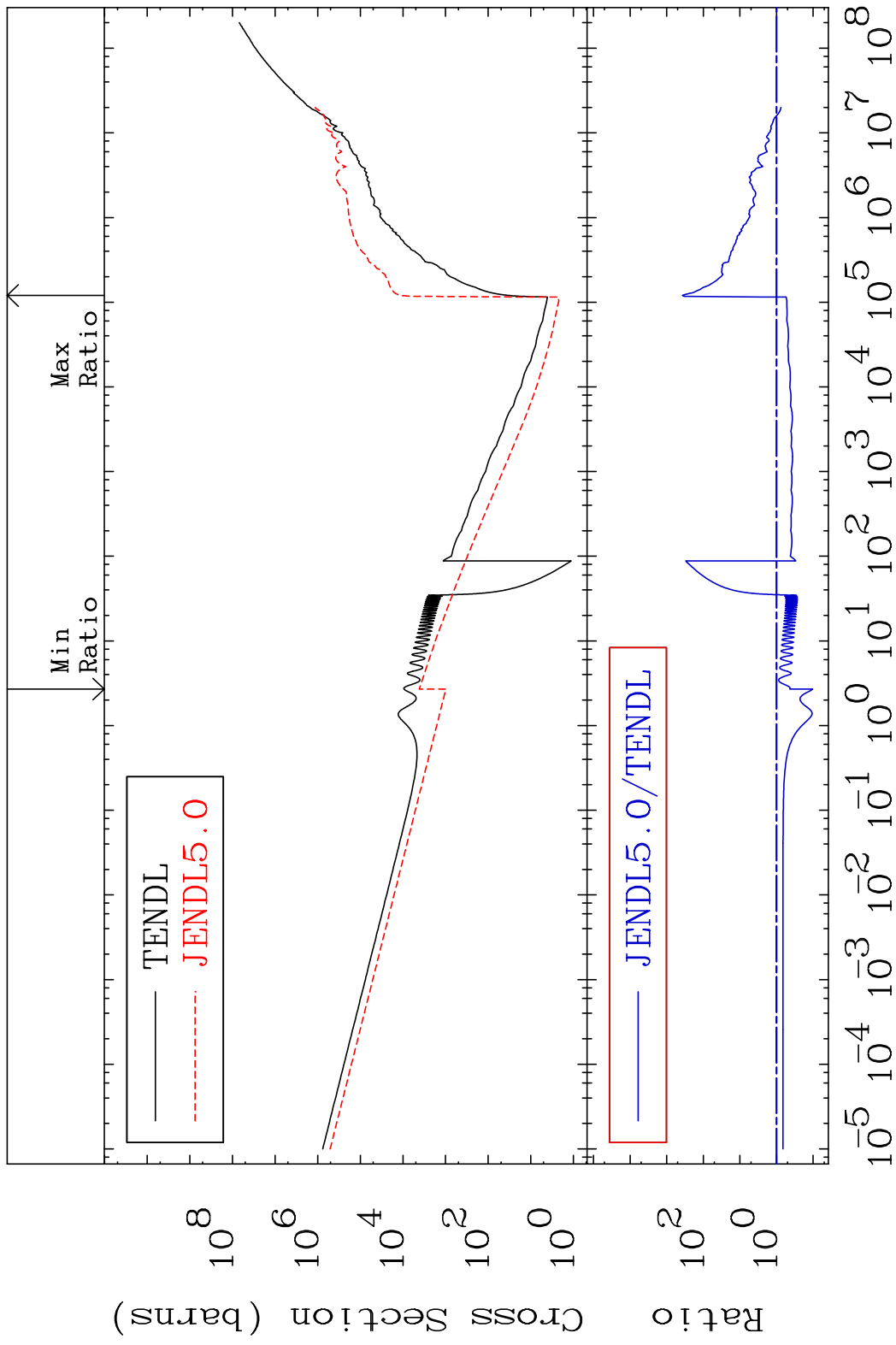
Kerma elastic
Cross Section

61-Pm-149
-29.64 To 9999. %

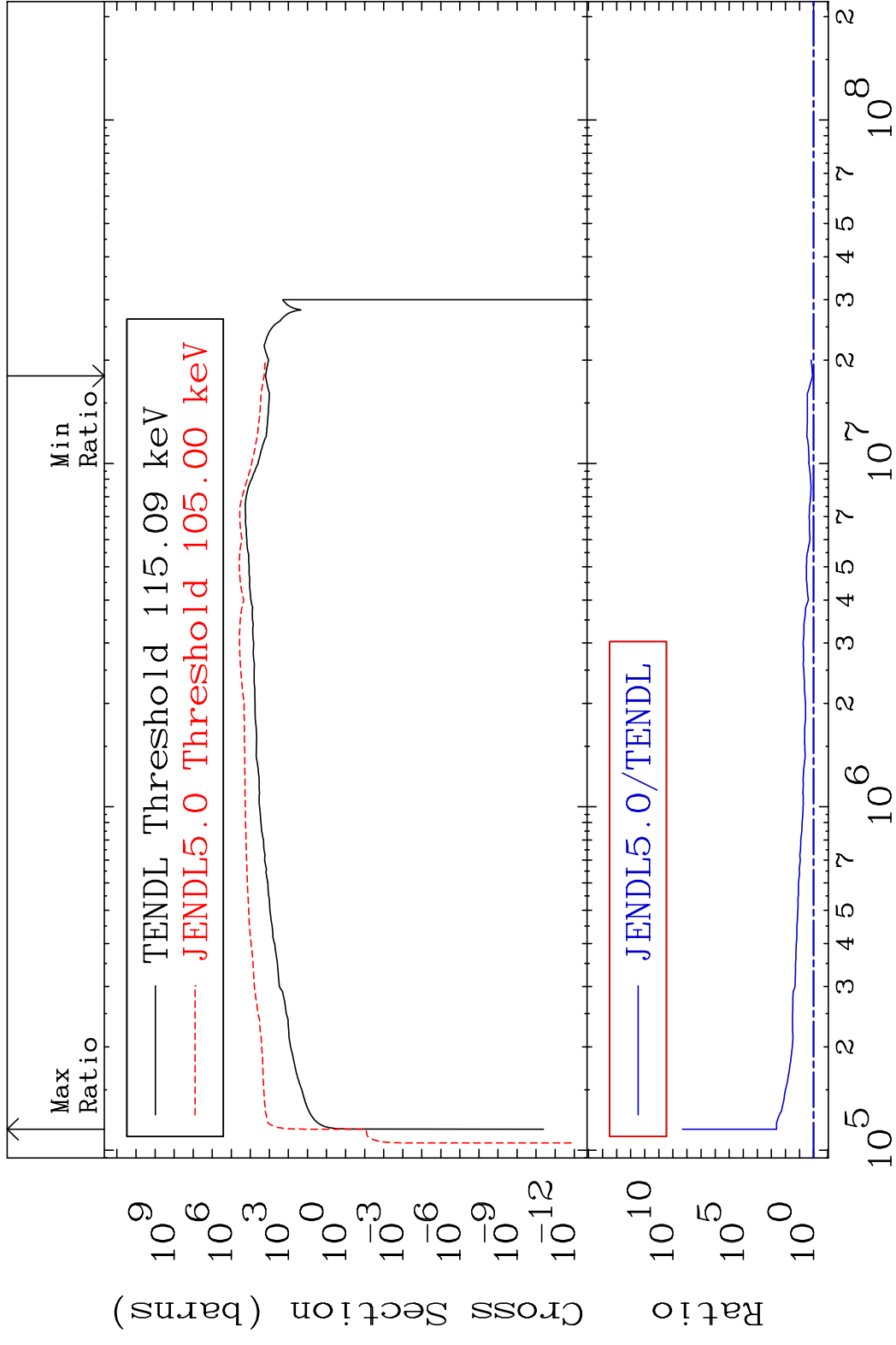


Incident Energy (eV)

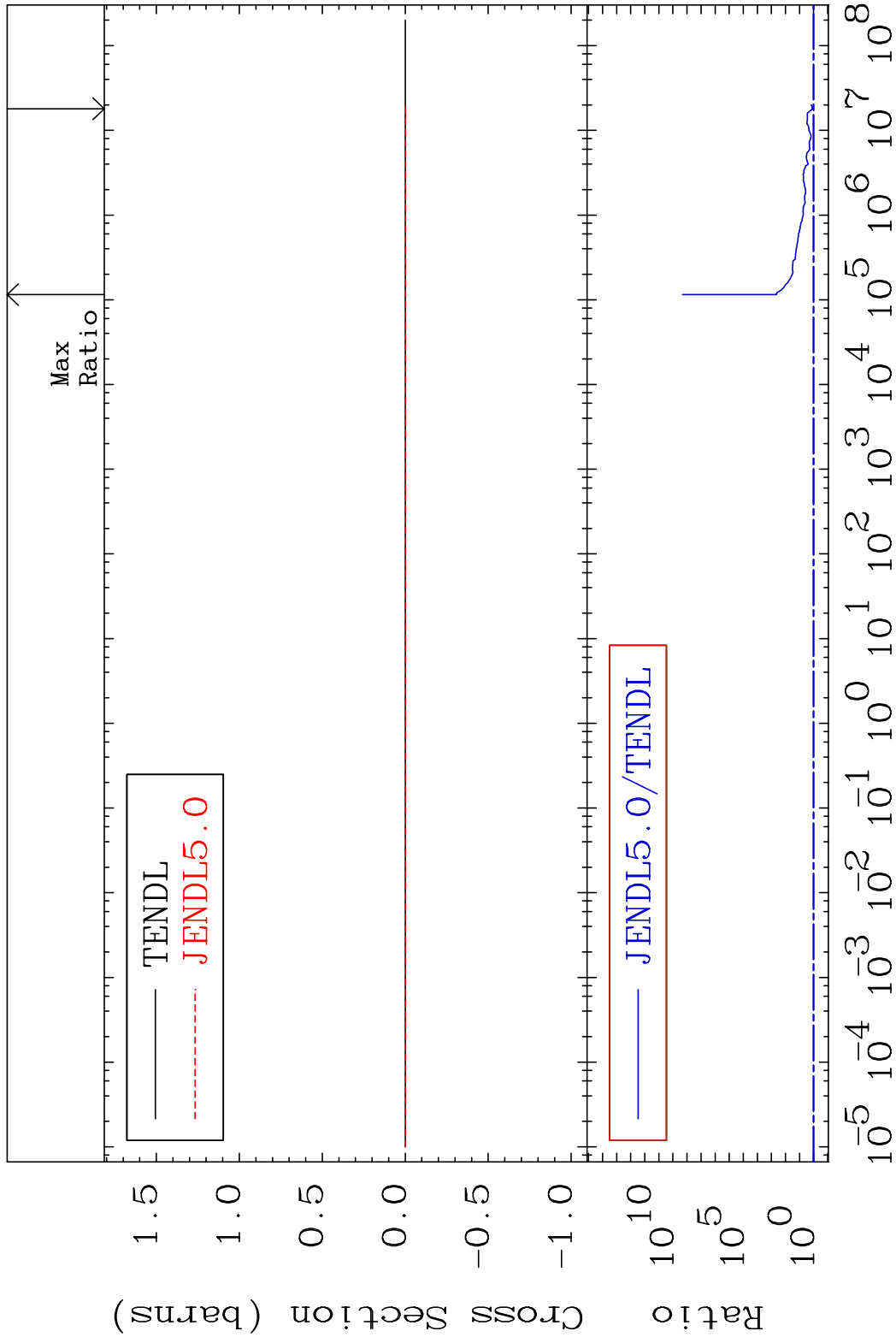
MAT 6155 Kerma non-elastic (all but mt2) 61-Pm-149
 Cross Section -89.60 To 9999. %



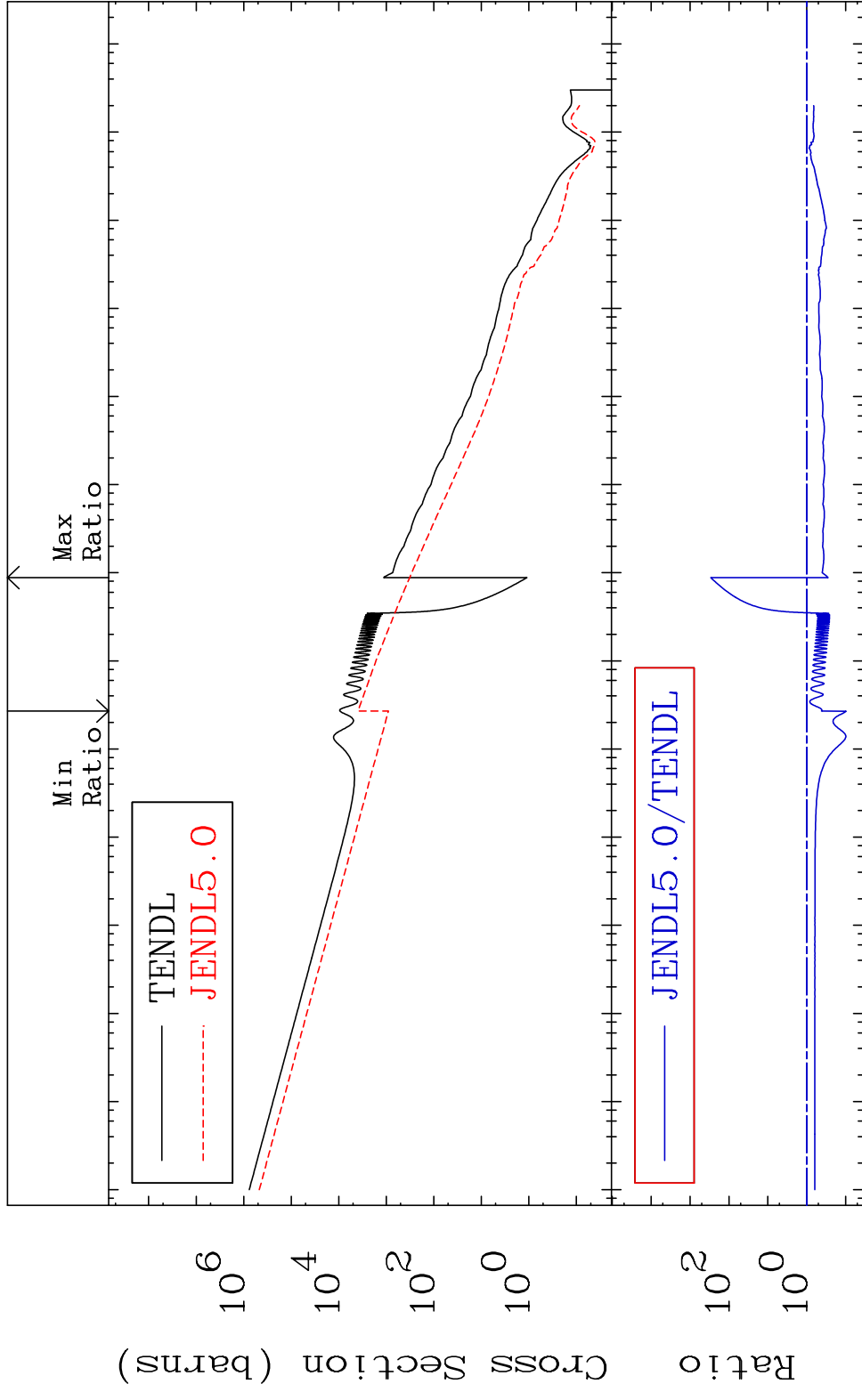
MAT 6155 Kerma inelastic (mt51-91) 61-Pm-149
 Cross Section 18.53 To 9999. %



MAT 6155 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-149
 Cross Section 18.53 To 9999. %

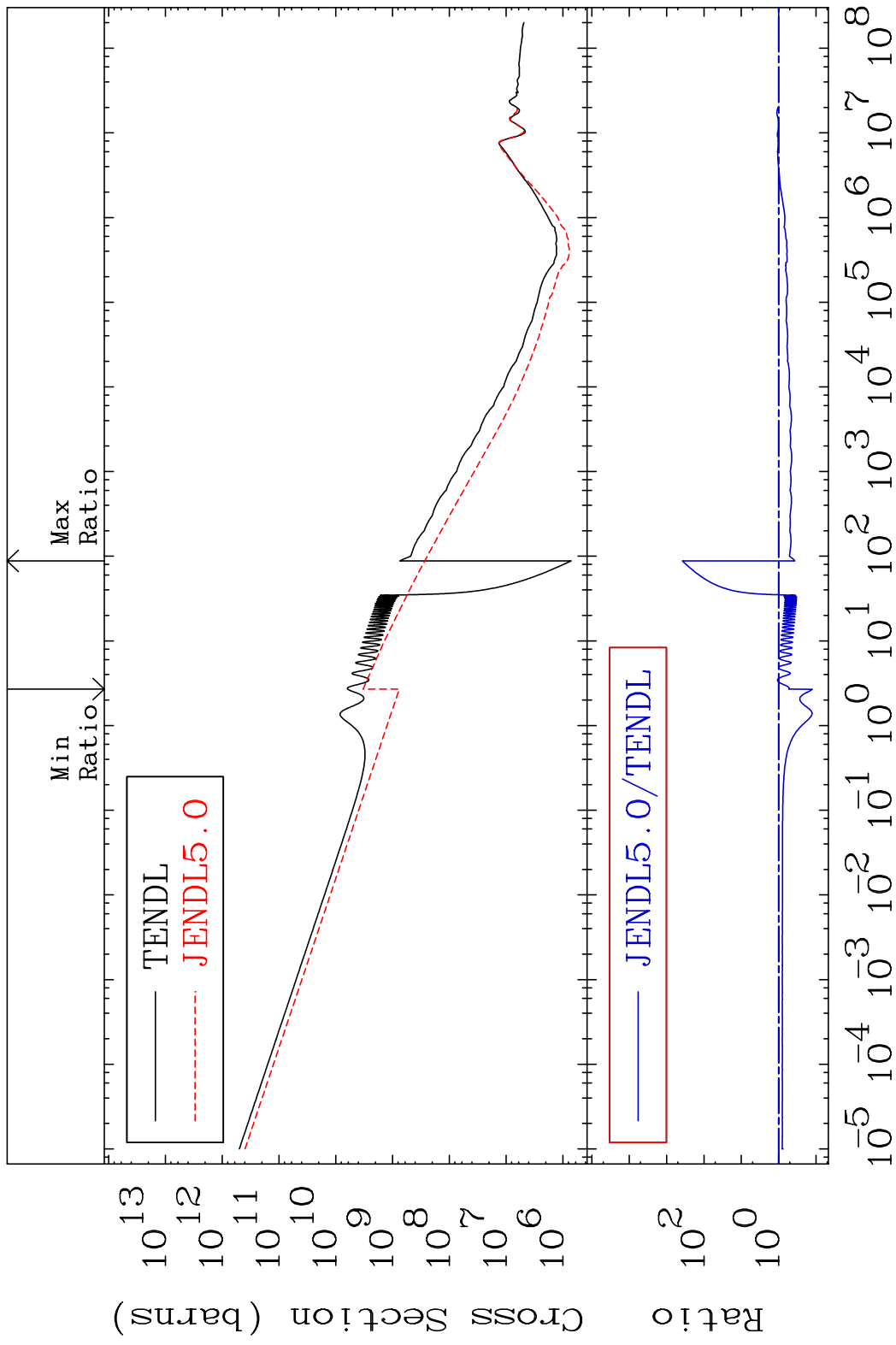


MAT 6155 Kerma capture (mt102) 61-Pm-149
 Cross Section -90.43 To 9999. %



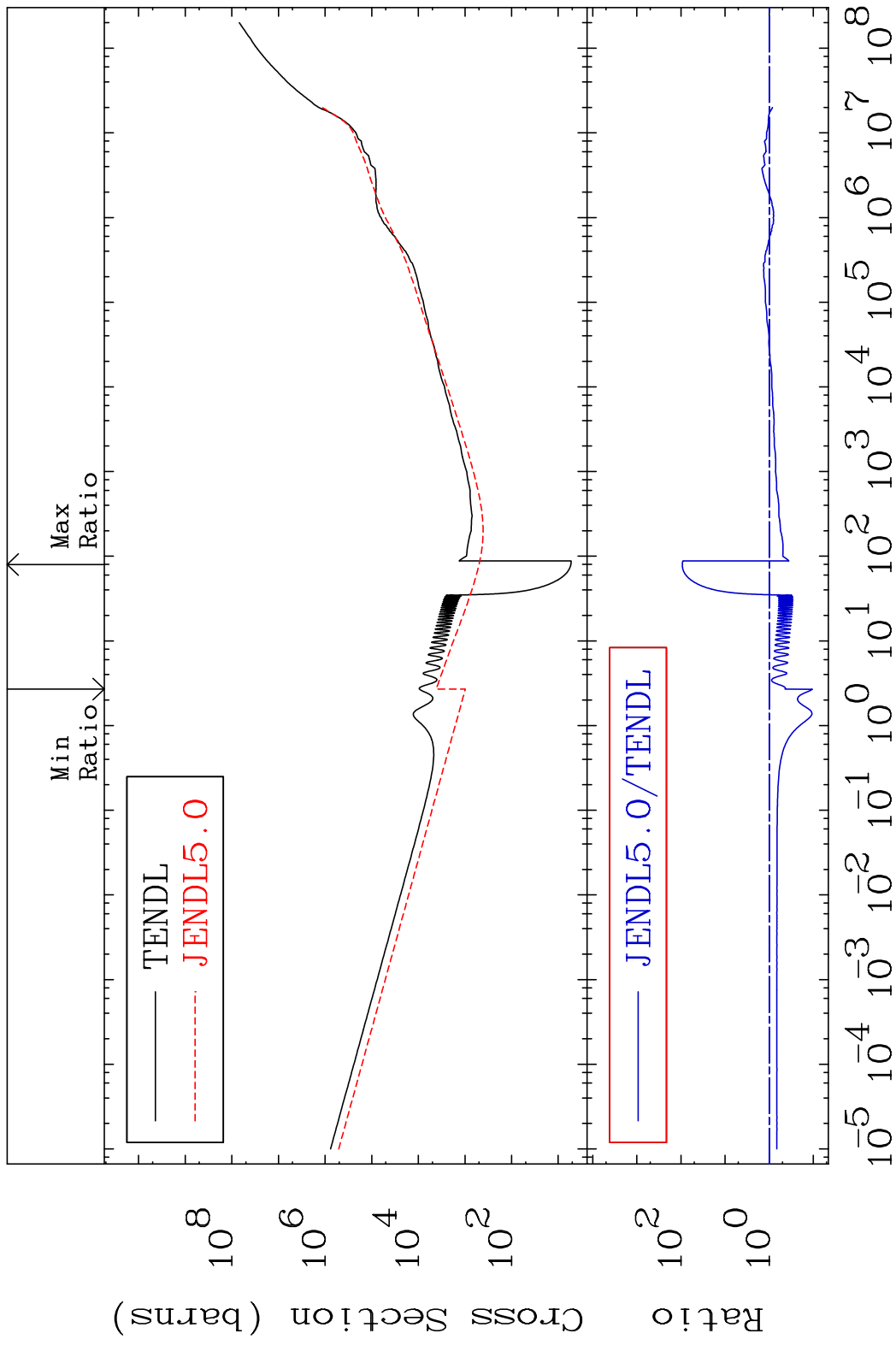
59 Incident Energy (eV) 61-Pm-149

MAT 6155 Total photon (eV-barns) 61-Pm-149
 Cross Section -87.68 To 9999. %

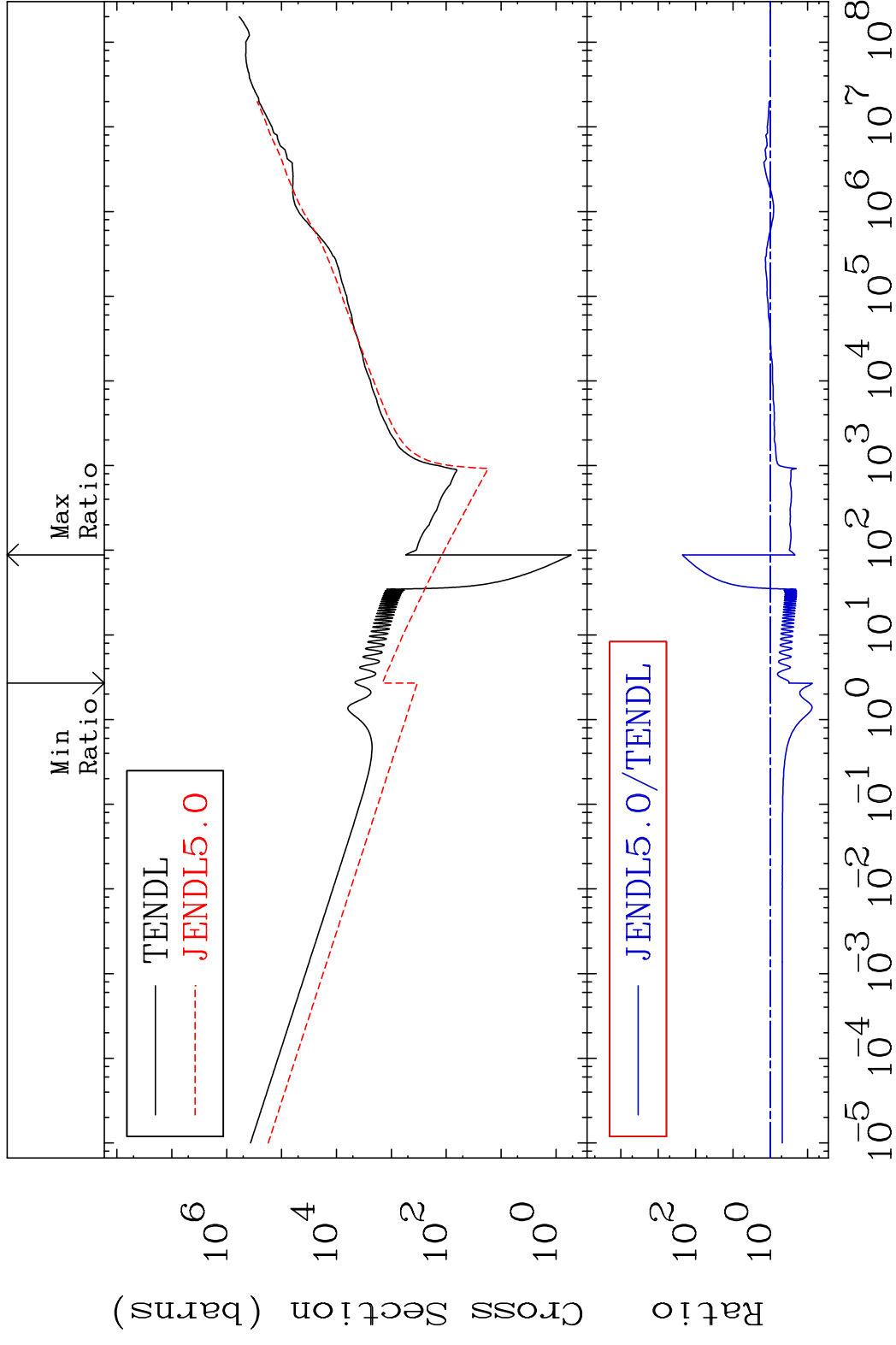


60 Incident Energy (eV) 61-Pm-149

MAT 6155 Total kinematic kerma (high limit) 61-Pm-149
 Cross Section -89.60 To 9208. %



MAT 6155 Dpa total (eV-barns) 61-Pm-149
 Cross Section -92.60 To 9999. %

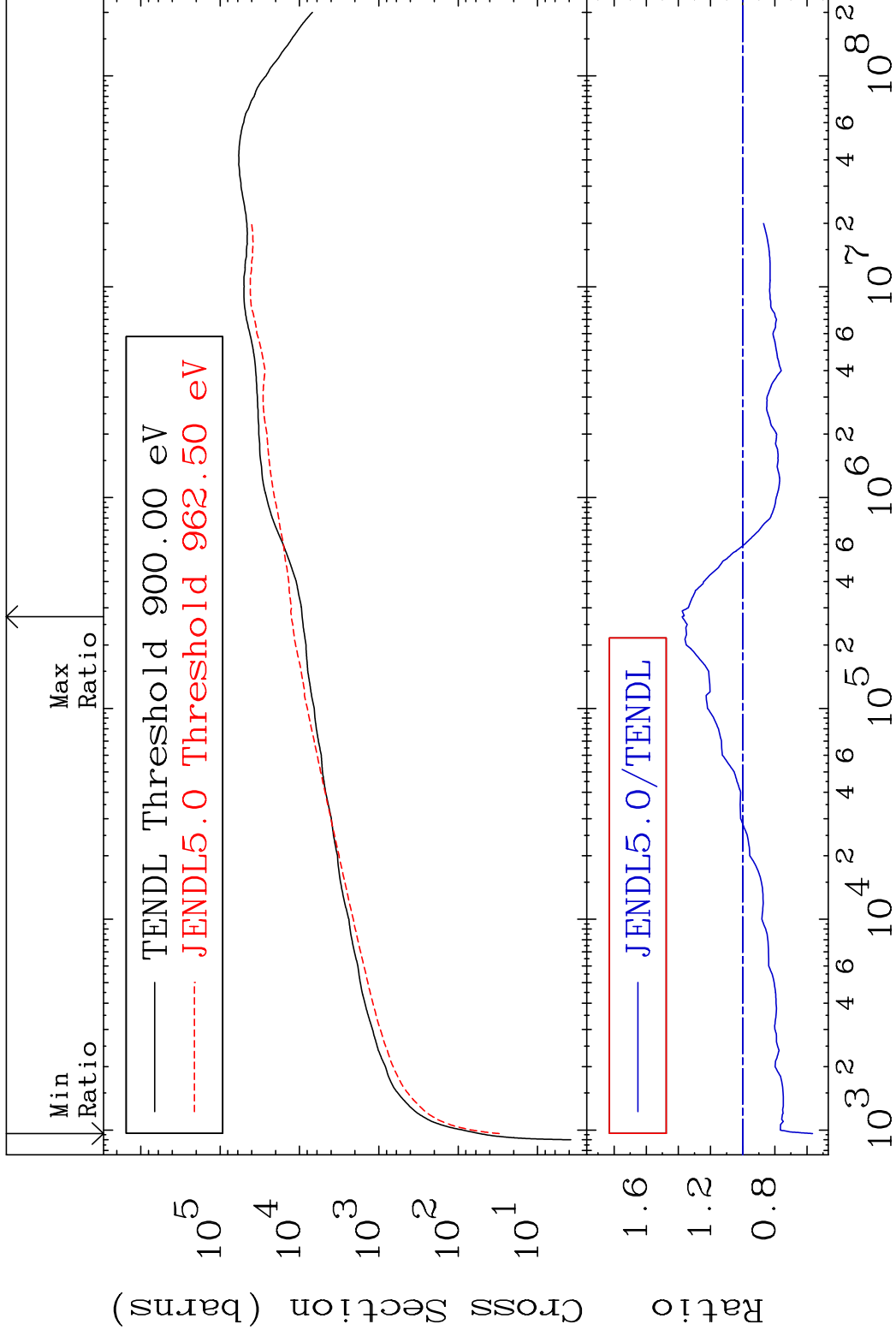


MAT 6155

Dpa elastic (mt2)

61-Pm-149

Cross Section -43.39 To 37.66 %

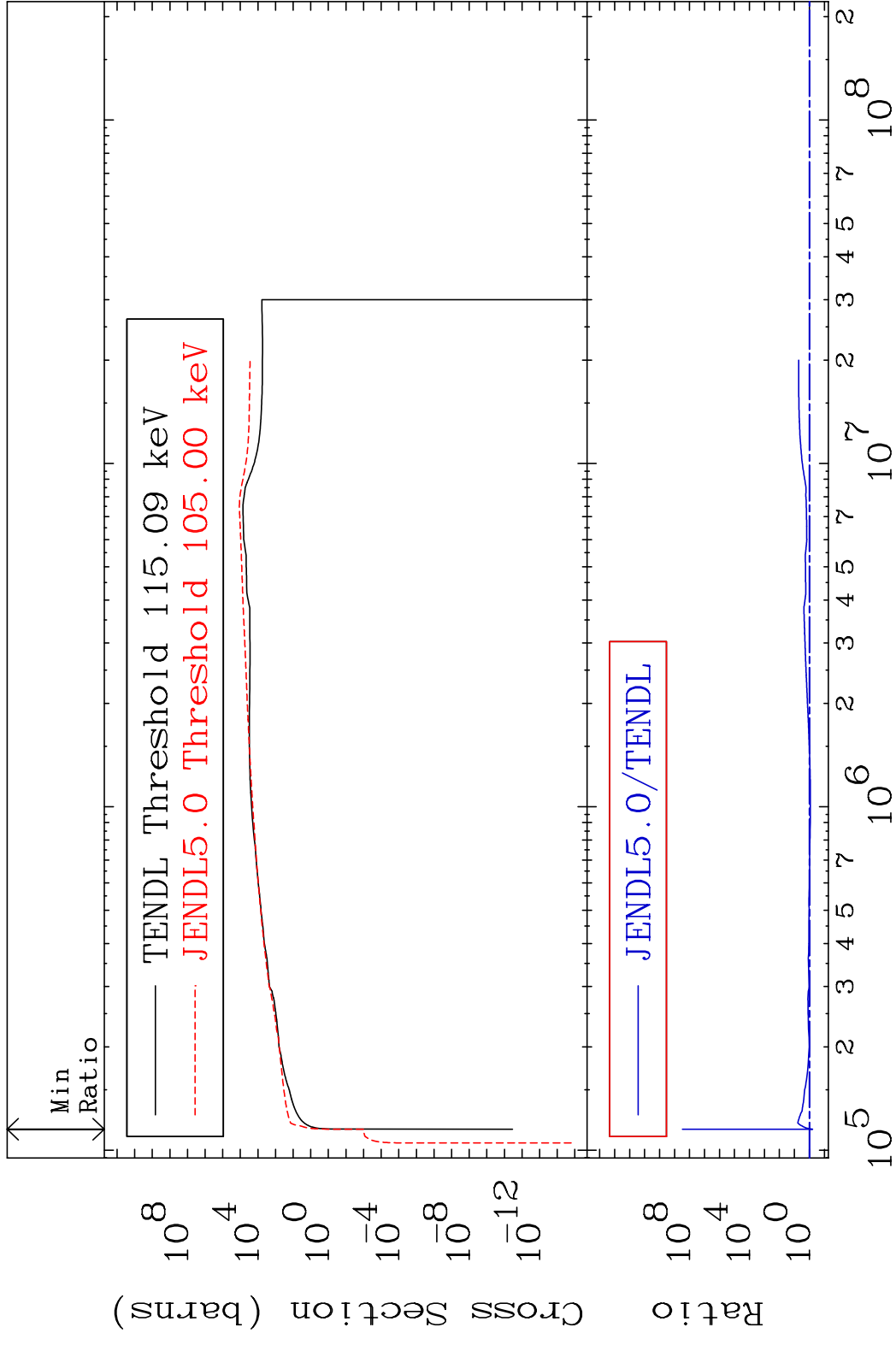


63

Incident Energy (eV)

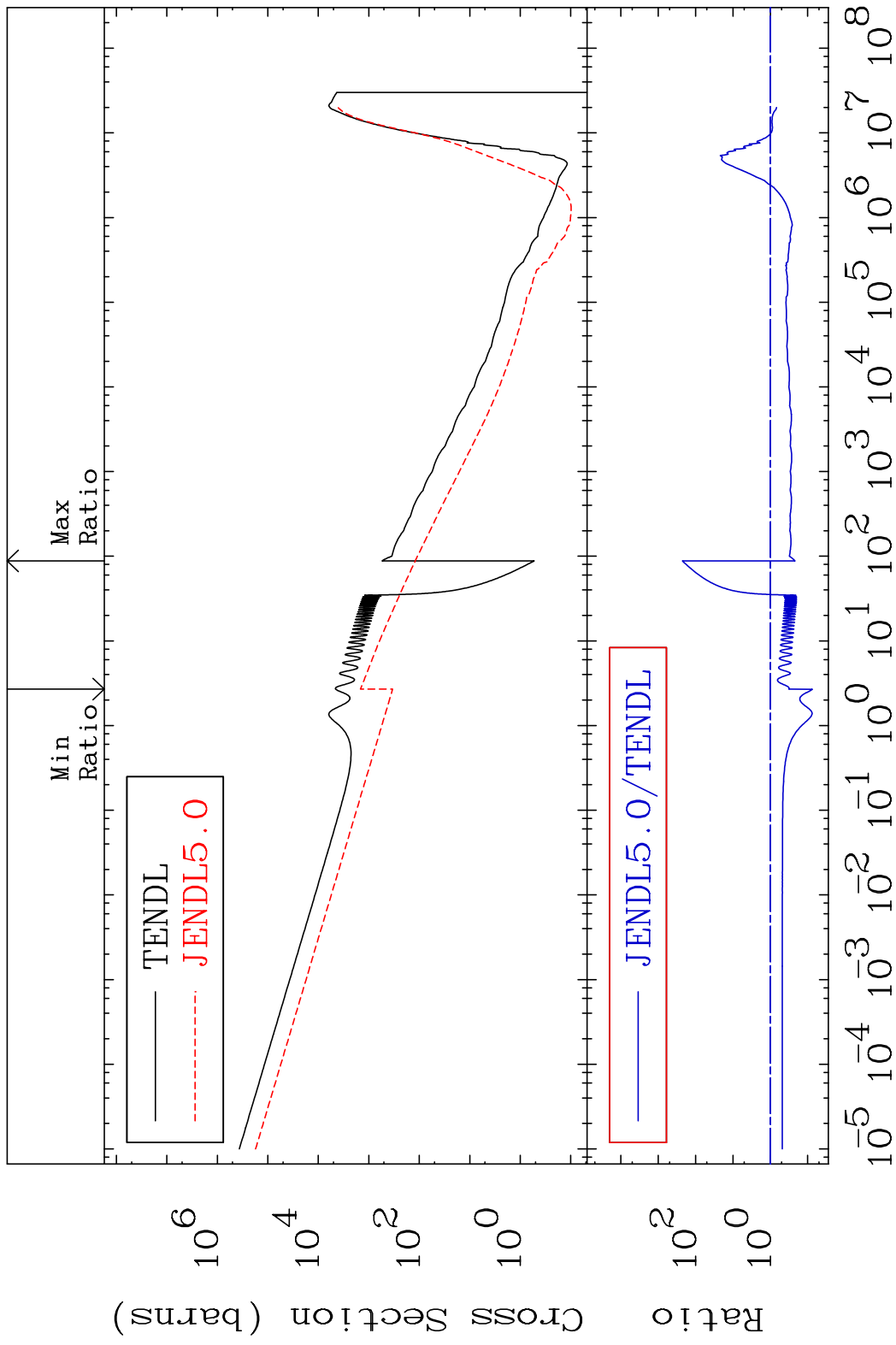
61-Pm-149

MAT 6155 Dpa inelastic (mt51-91) 61-Pm-149
 Cross Section -38.68 To 9999. %



64 Incident Energy (eV) 61-Pm-149

MAT 6155 Dpa disappearance (mt102 -120) 61-Pm-149
 Cross Section -92.60 To 9999. %



65 Incident Energy (eV) 61-Pm-149