

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

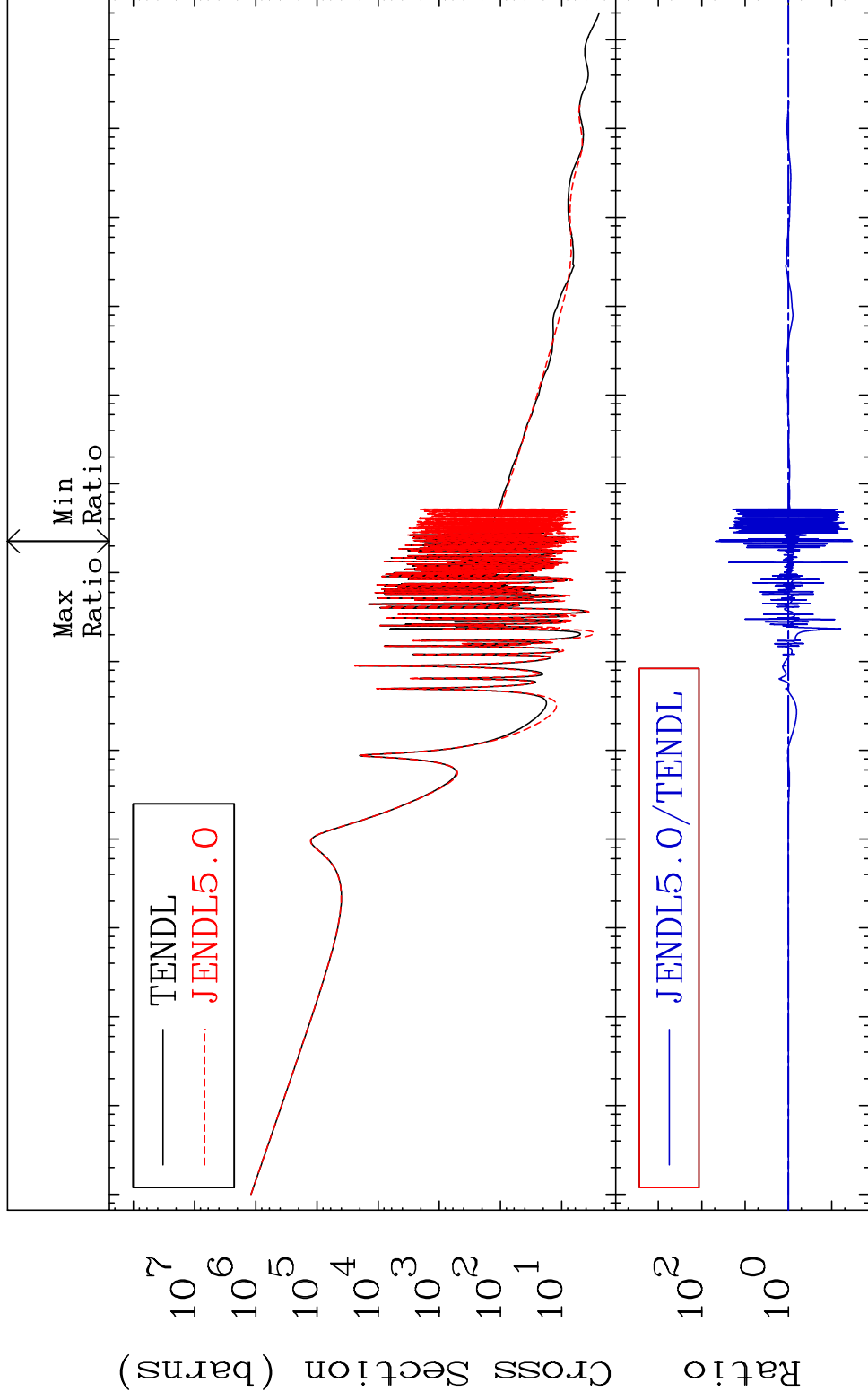
MAT 6240

Total

62-Sm-149

Cross Section

-96.64 To 4670. %



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

1

Incident Energy (eV)

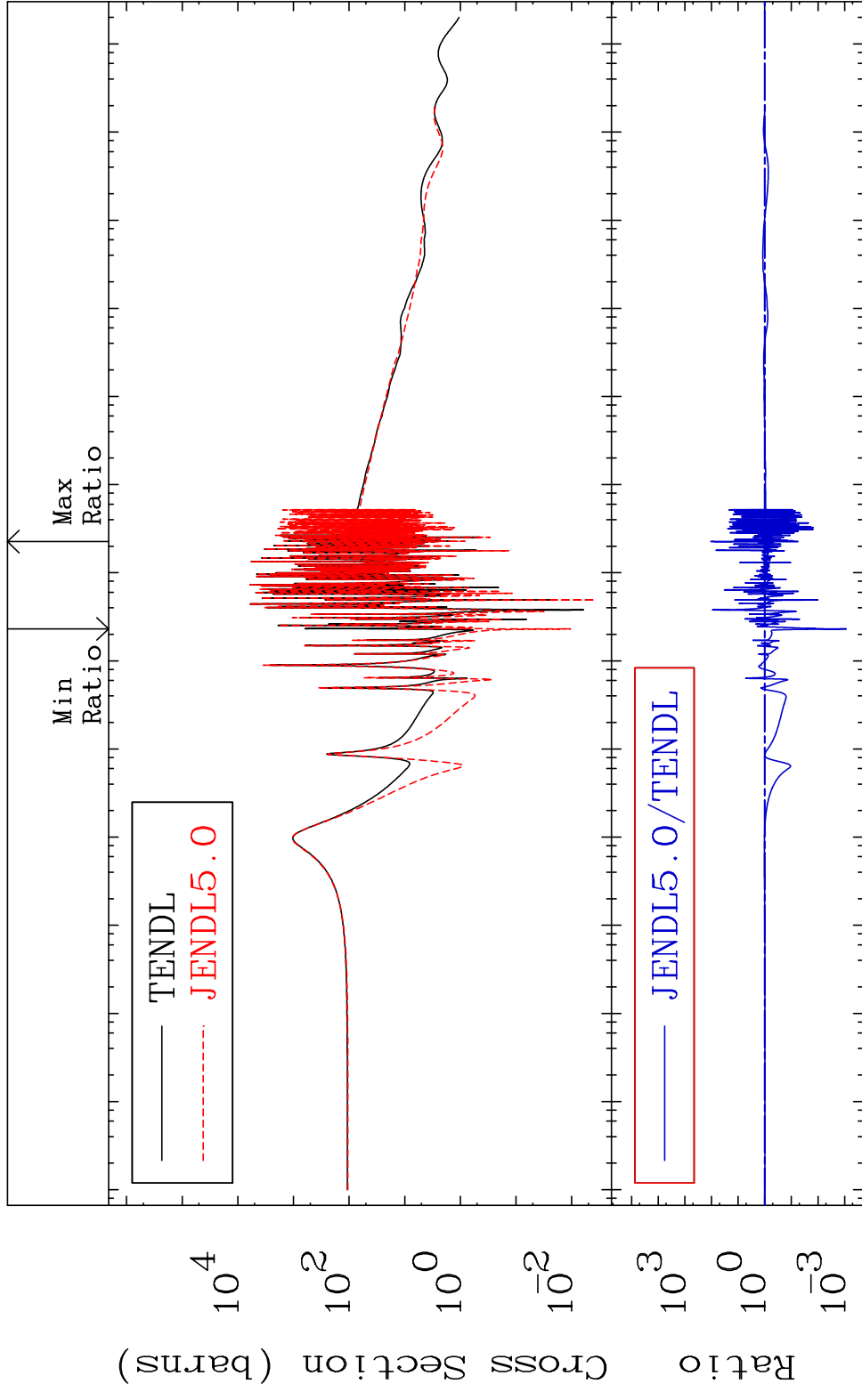
62-Sm-149

MAT 6240

62-Sm-149

Elastic

Cross Section -99.91 To 9999. %



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

2

Incident Energy (eV)

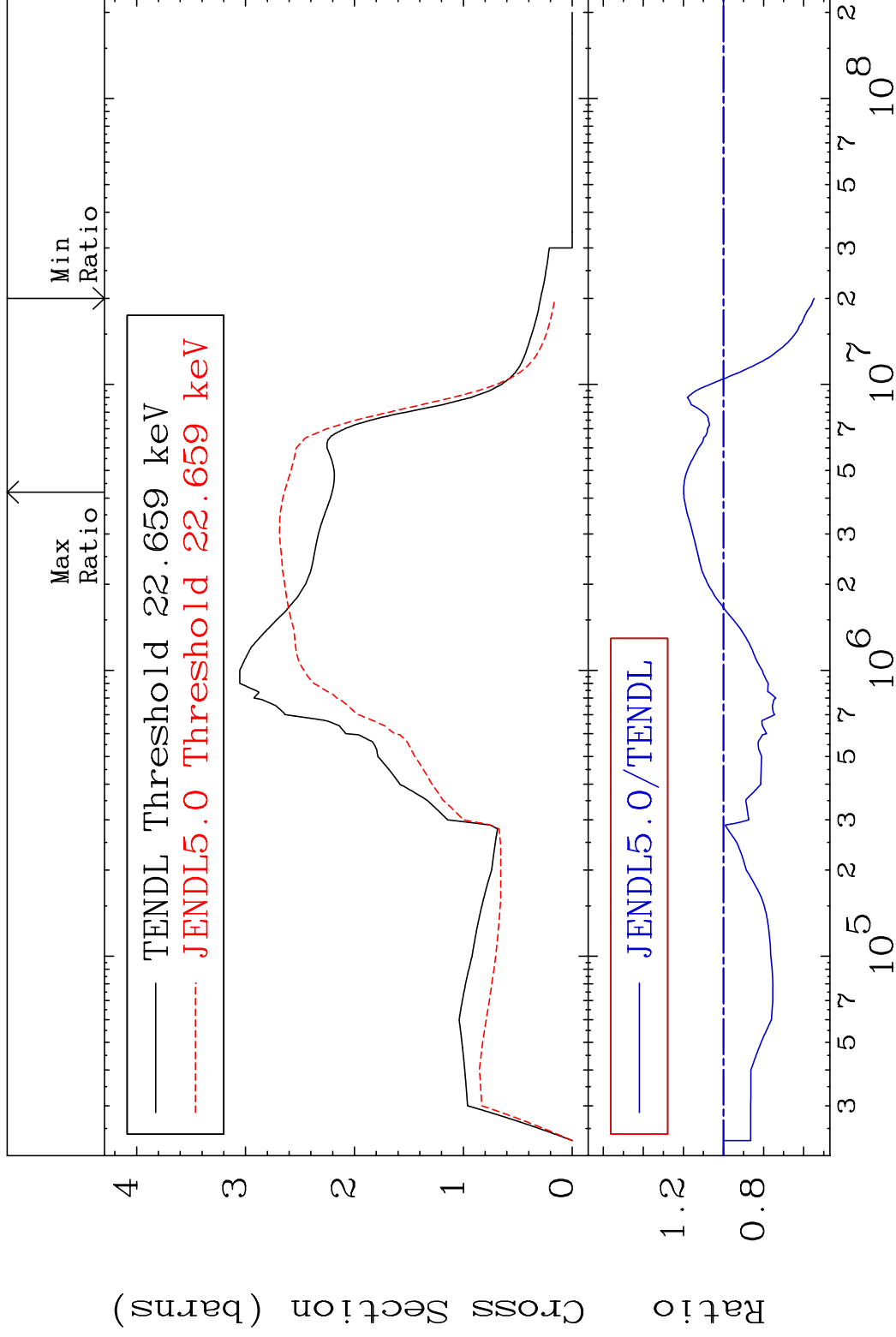
62-Sm-149

MAT 6240

Inelastic

62-Sm-149

Cross Section -45.22 To 19.87 %



3

Incident Energy (eV)

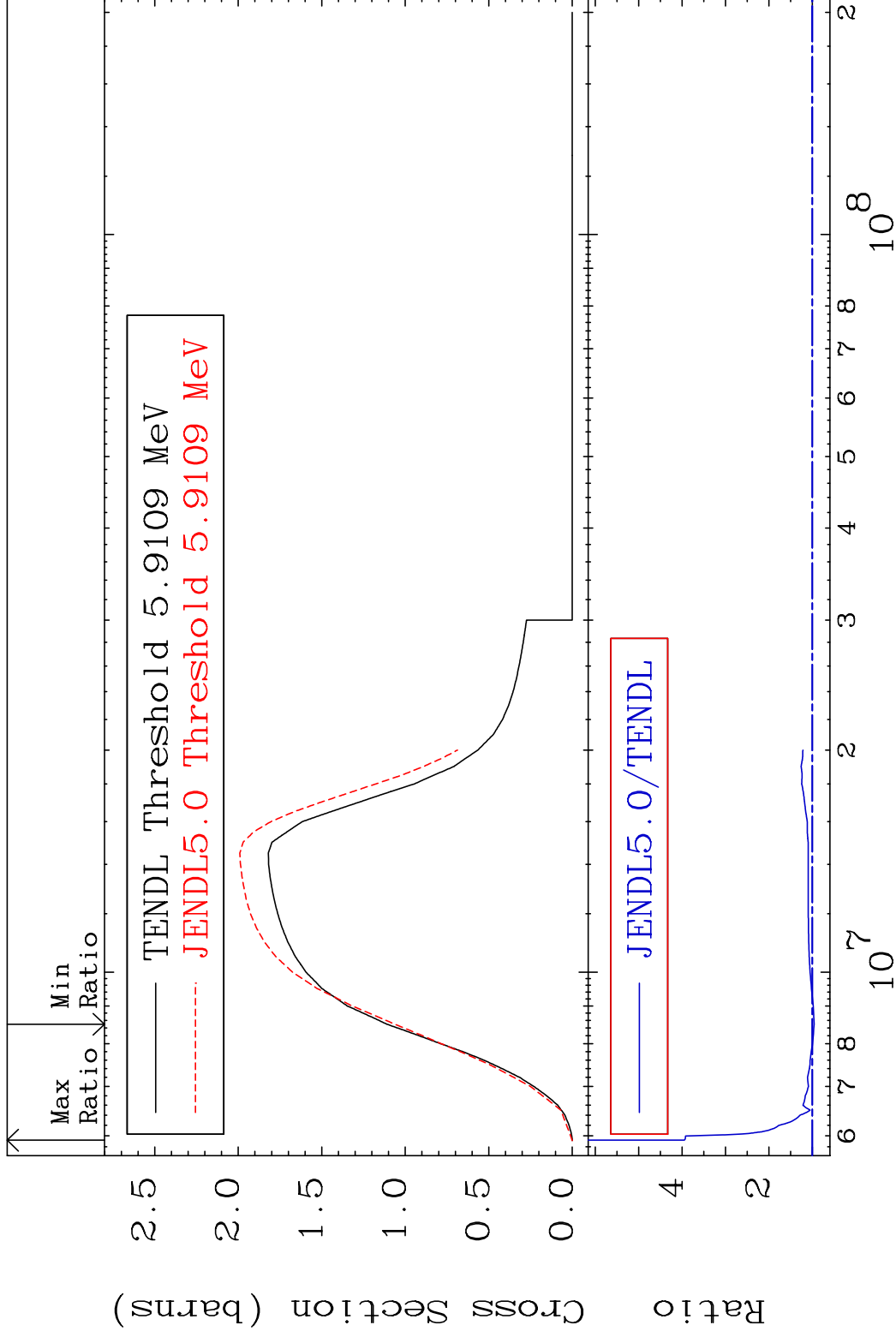
62-Sm-149

MAT 6240

(n,2n)

62-Sm-149

Cross Section -4.197 To 296.2 %

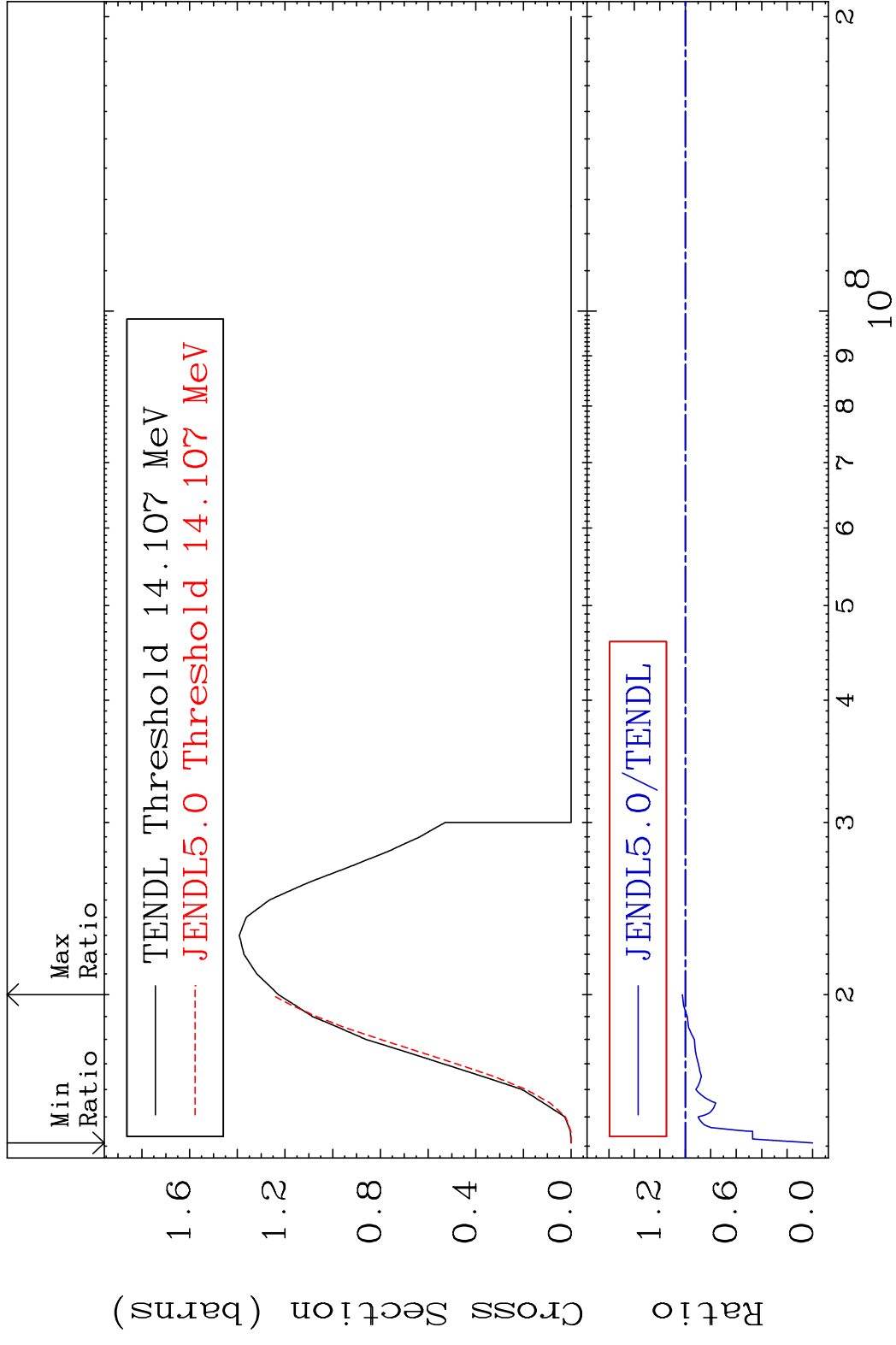


62-Sm-149

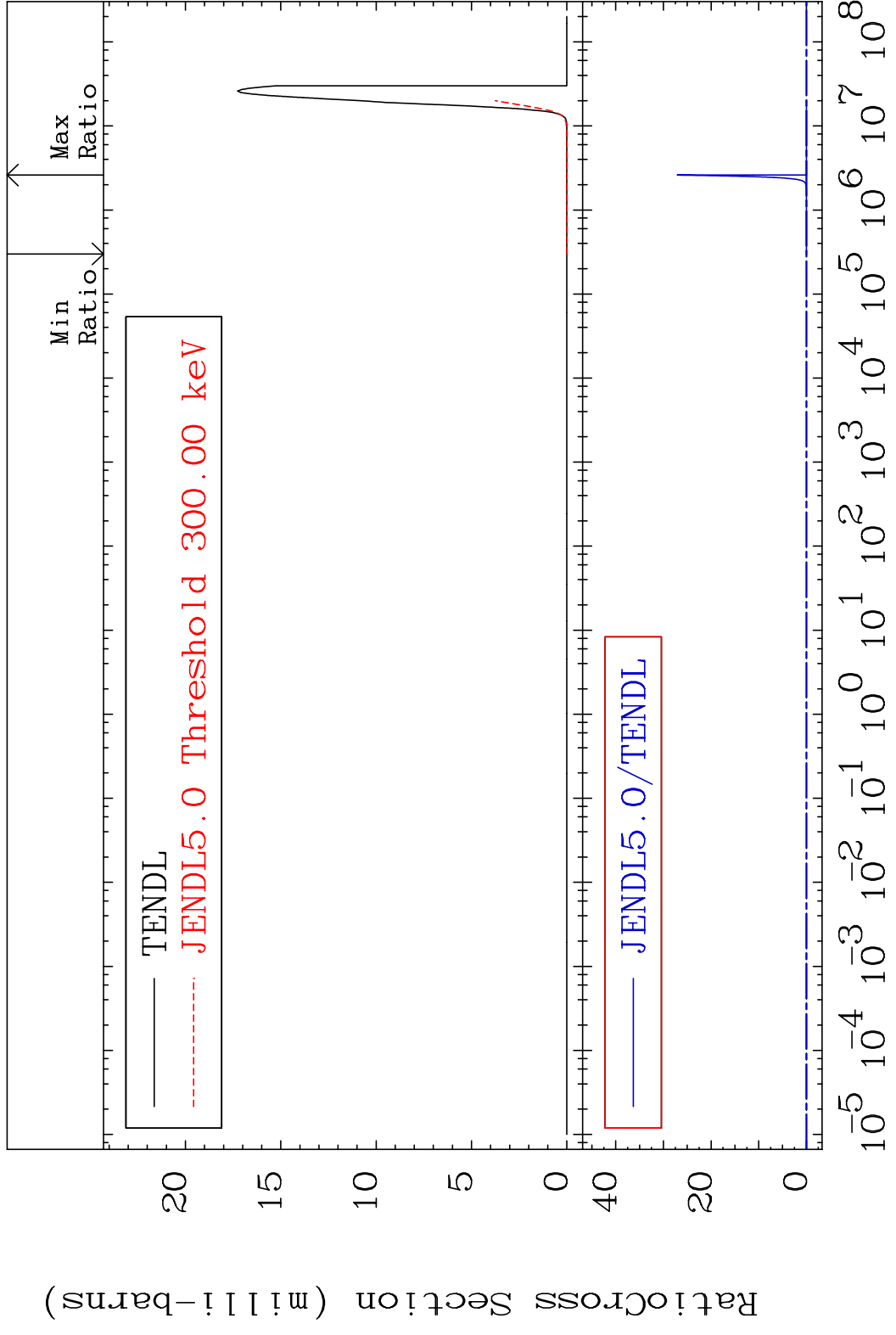
Incident Energy (eV)

4

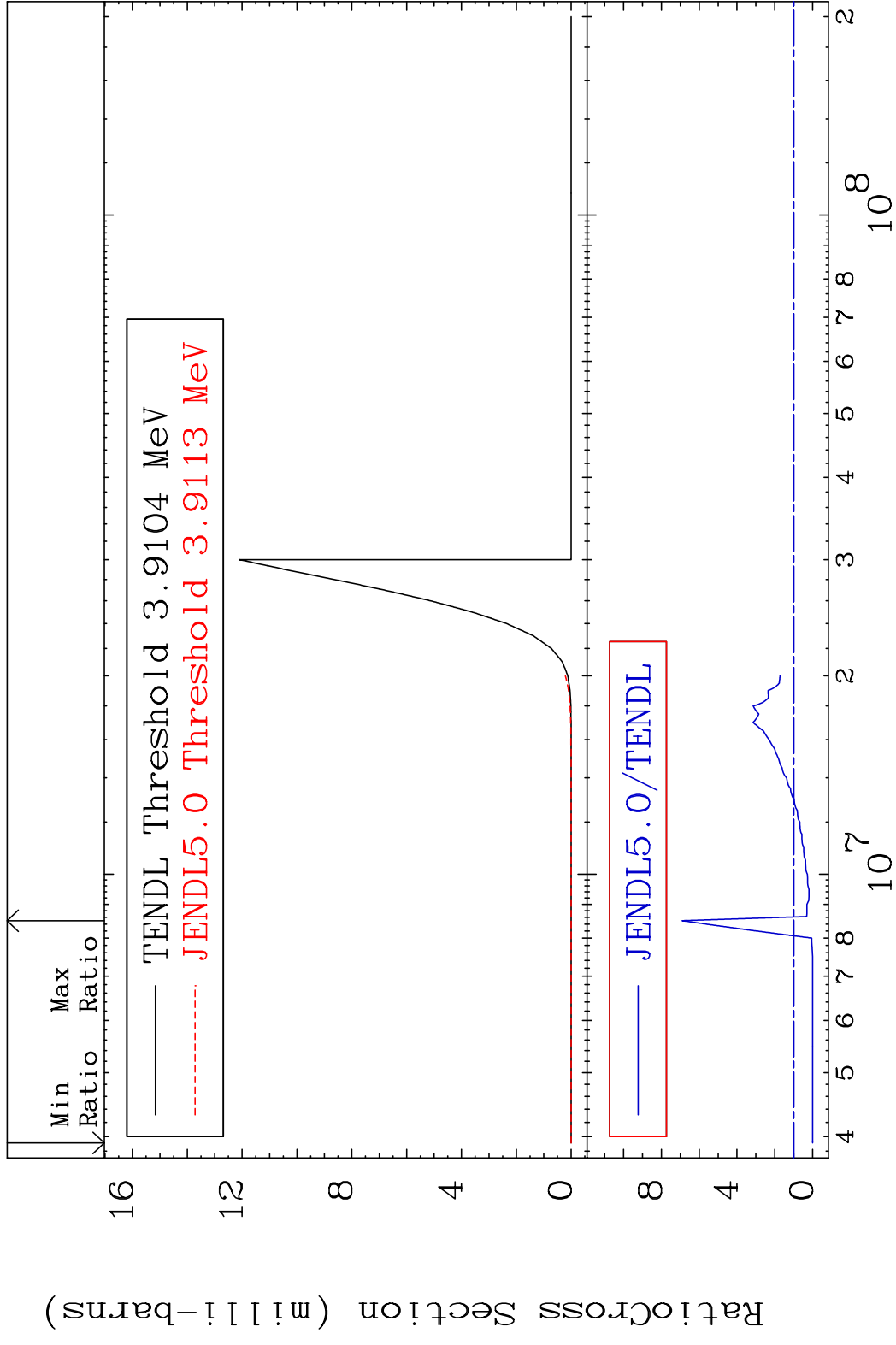
MAT 6240 (n,3n) 62-Sm-149
 Cross Section -100.0 To 2.306 %



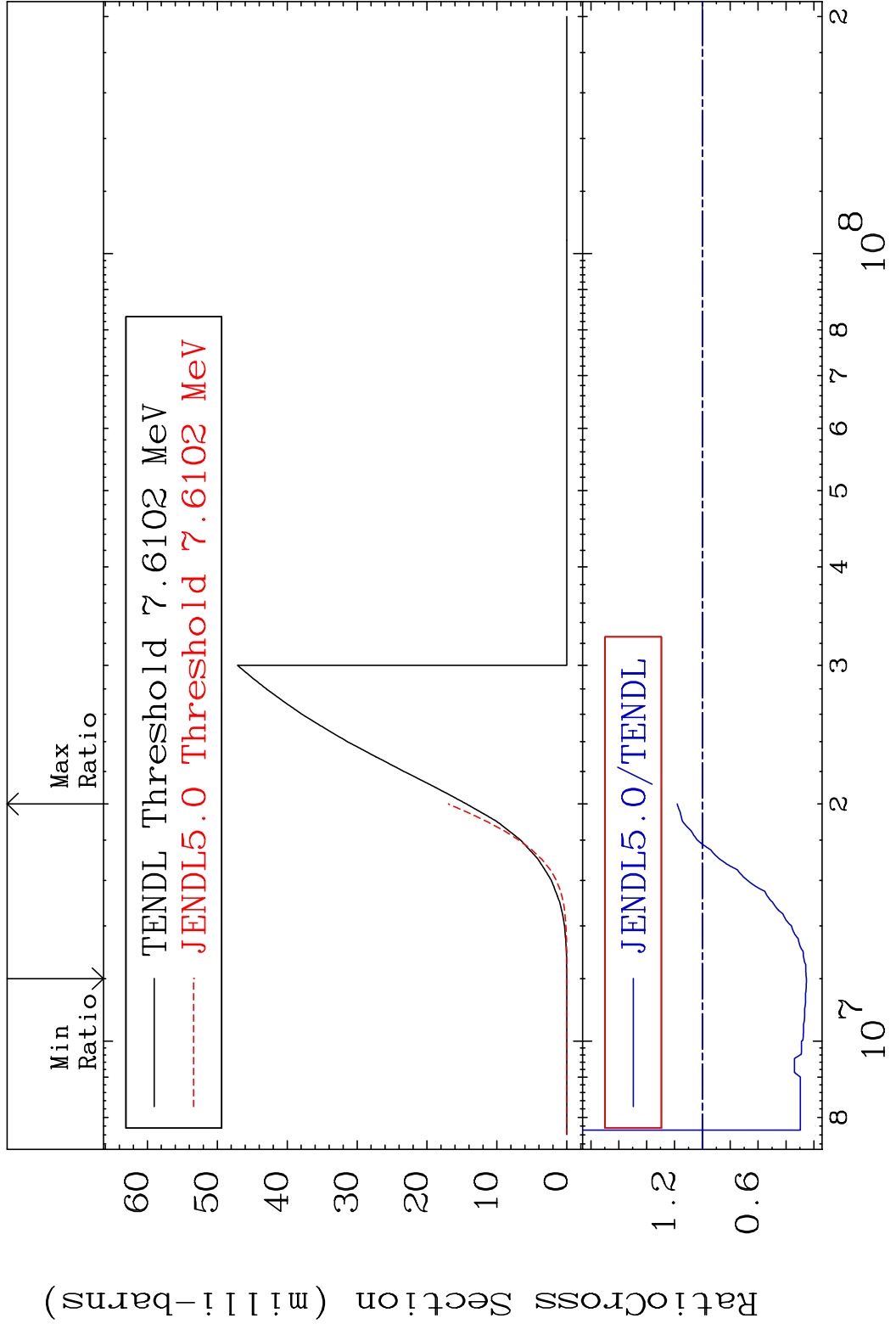
MAT 6240 (n, n') α 62-Sm-149
 Cross Section -100.0 To 9999. %



MAT 6240 (n,2n) α 62-Sm-149
 Cross Section -100.0 To 589.1 %

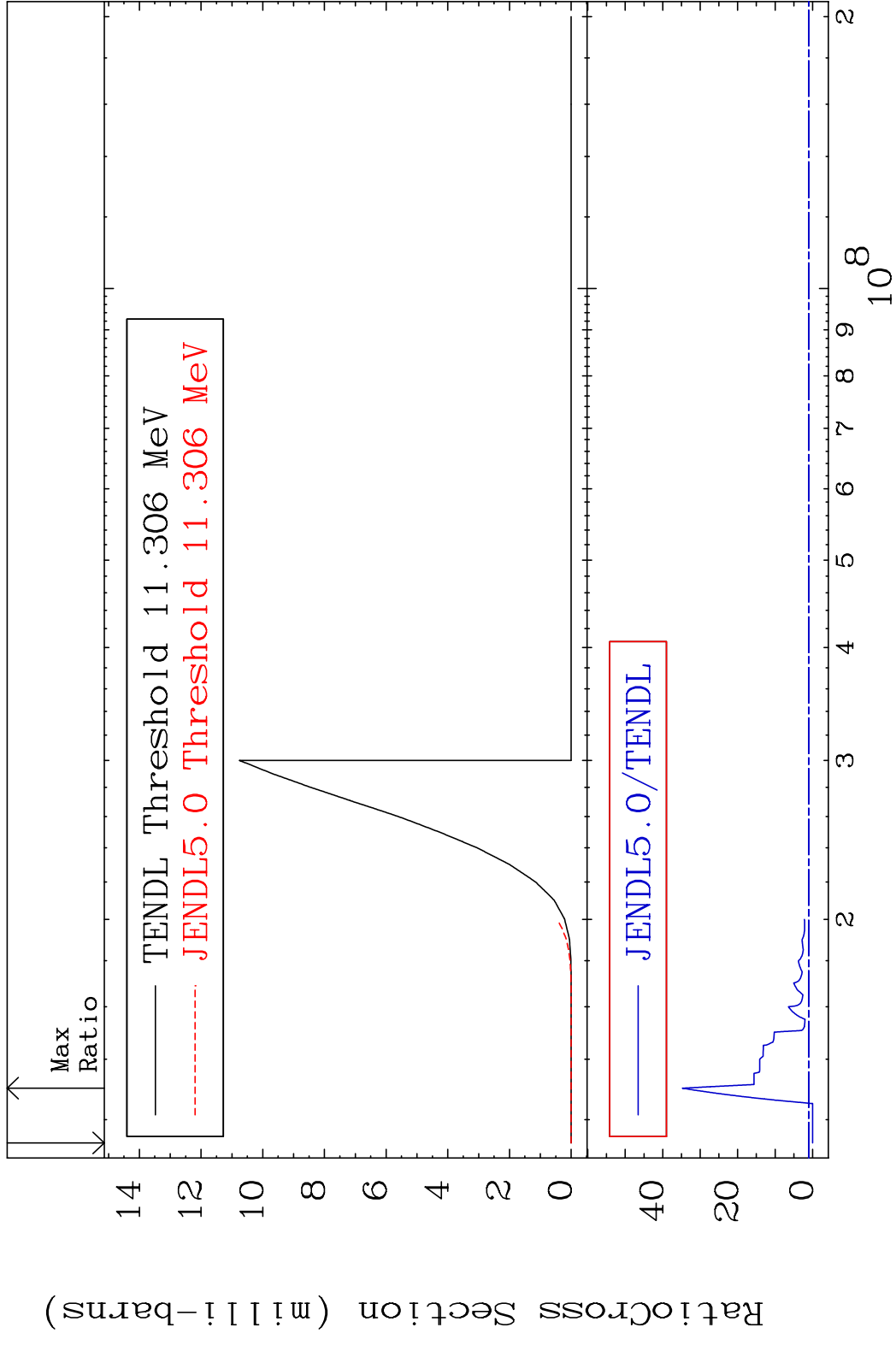


MAT 6240 (n, n') p 62-Sm-149
 Cross Section -74.64 To 18.08 %

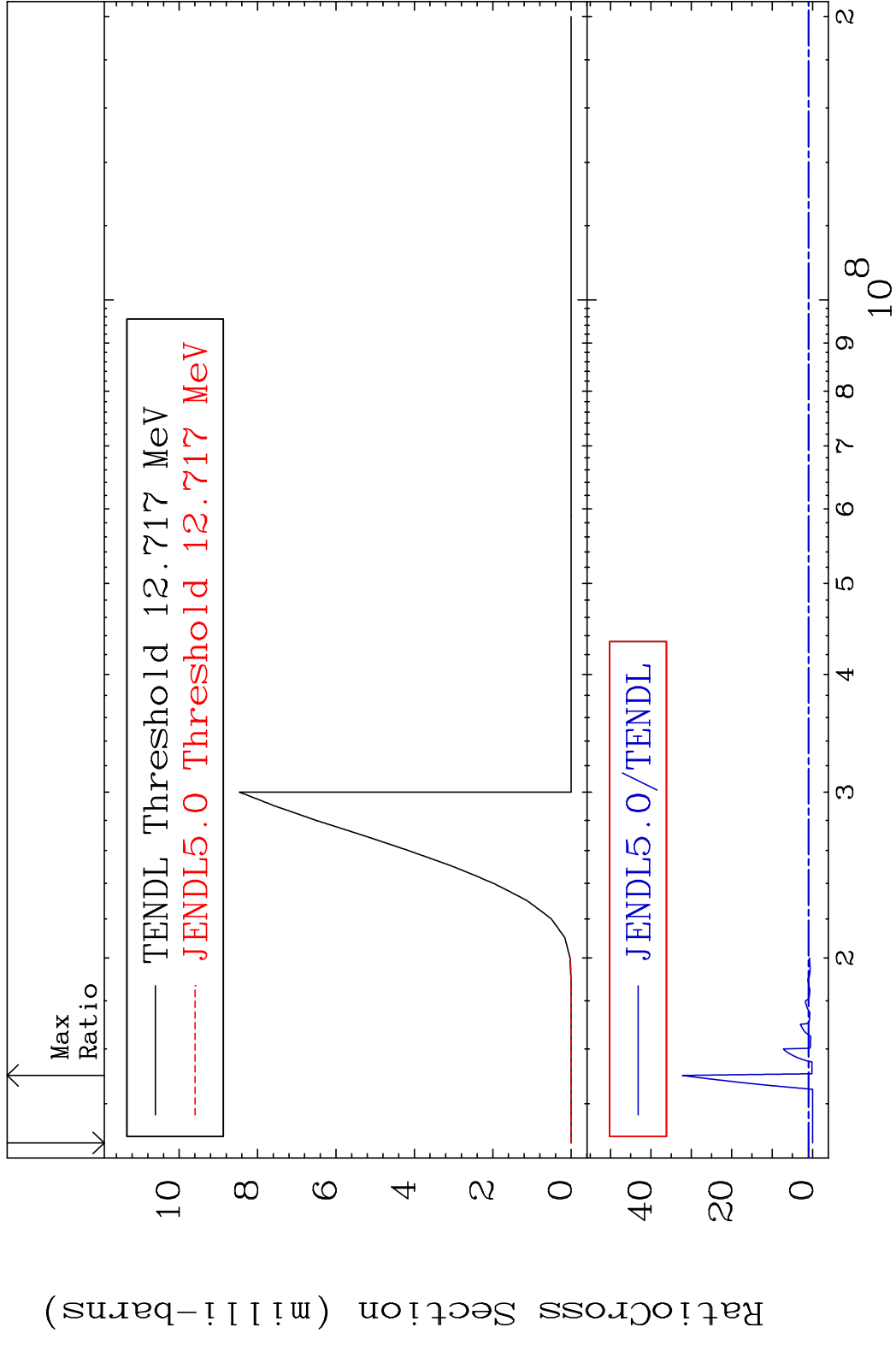


8 8 Incident Energy (eV) 62-Sm-149

MAT 6240 (n, n') d 62-Sm-149
 Cross Section -100.0 To 3375. %



MAT 6240 (n, n') t 62-Sm-149
 Cross Section -100.0 To 3122. %



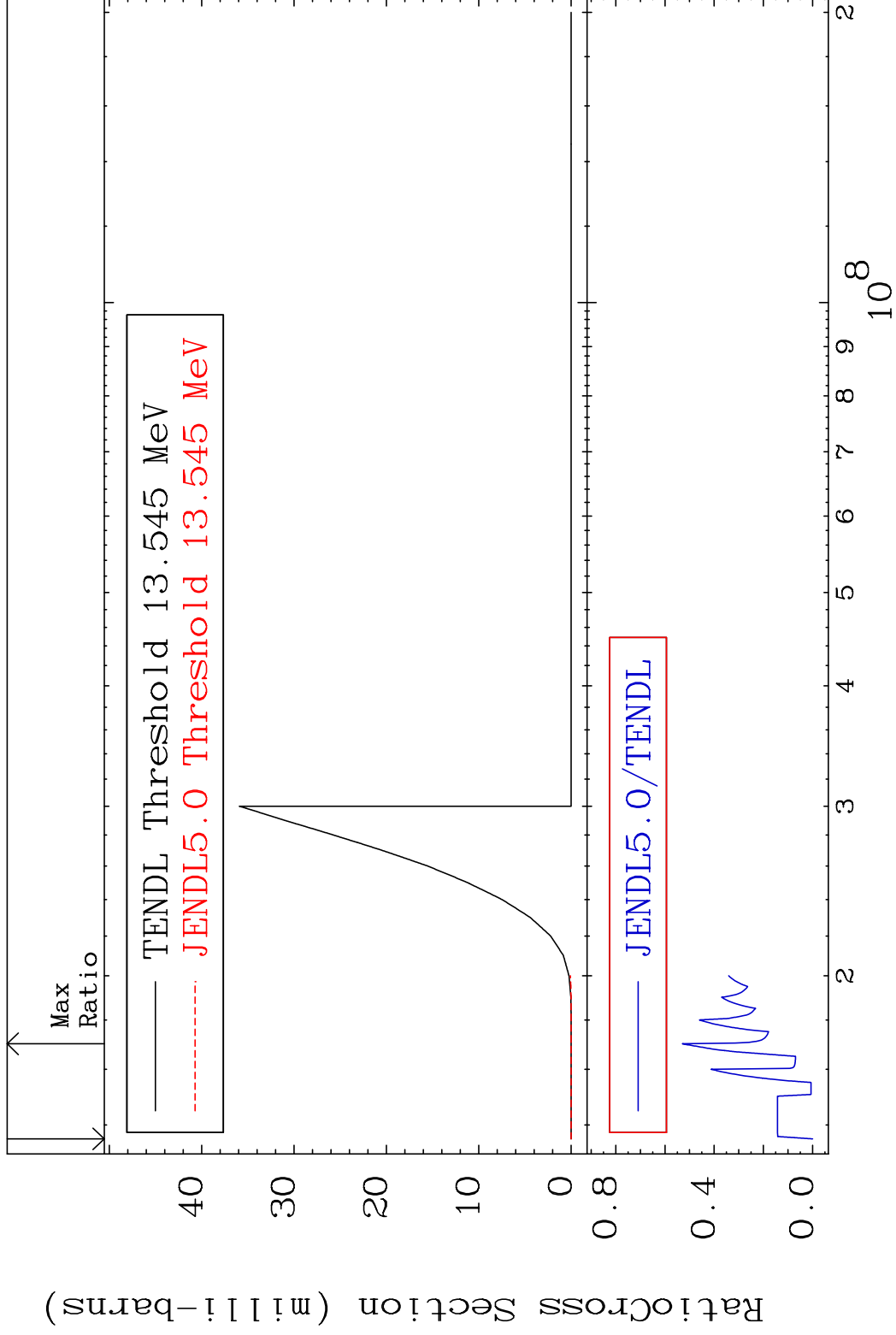
10 Incident Energy (eV) 62-Sm-149

MAT 6240

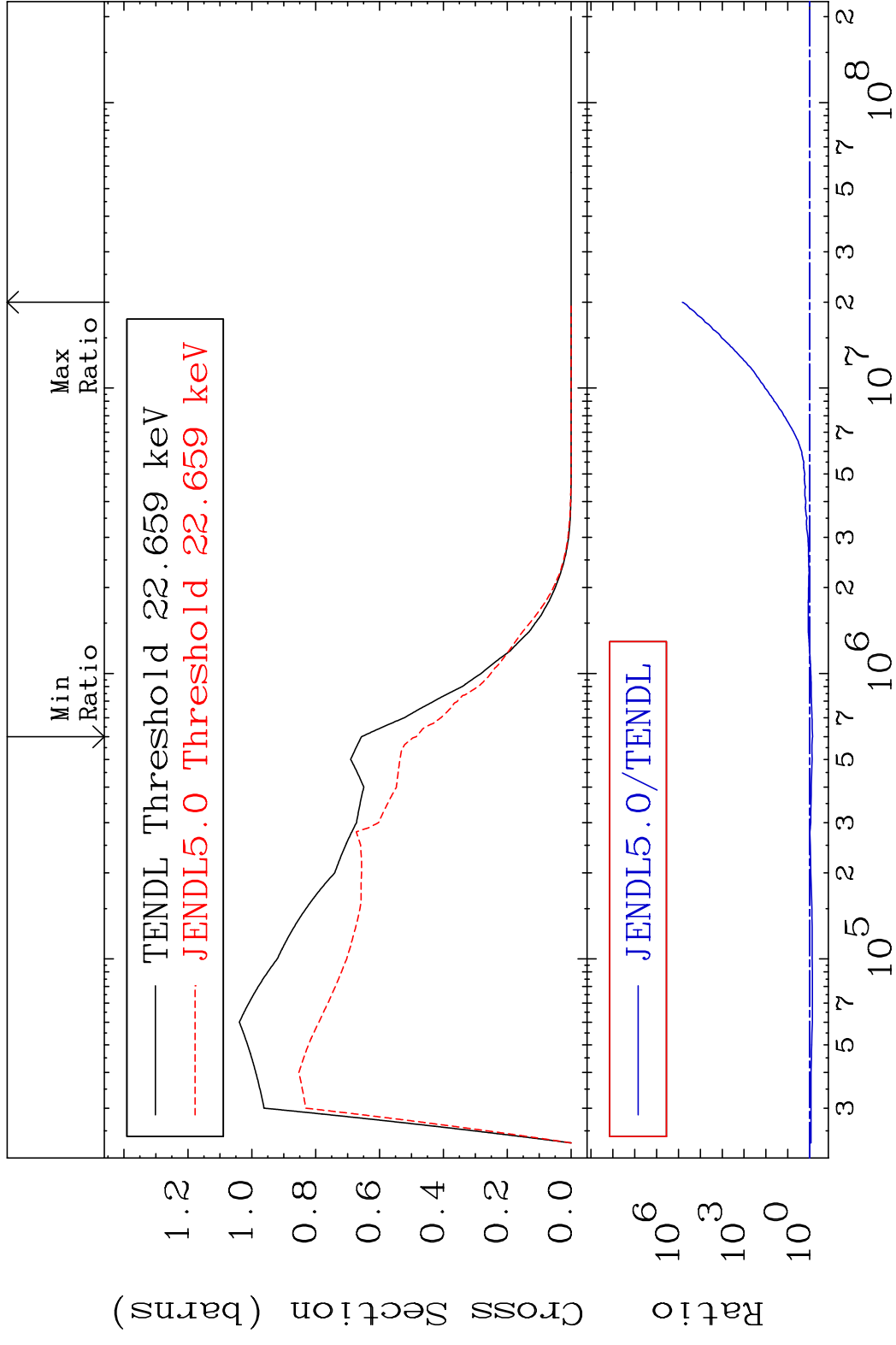
(n,2n) p

62-Sm-149

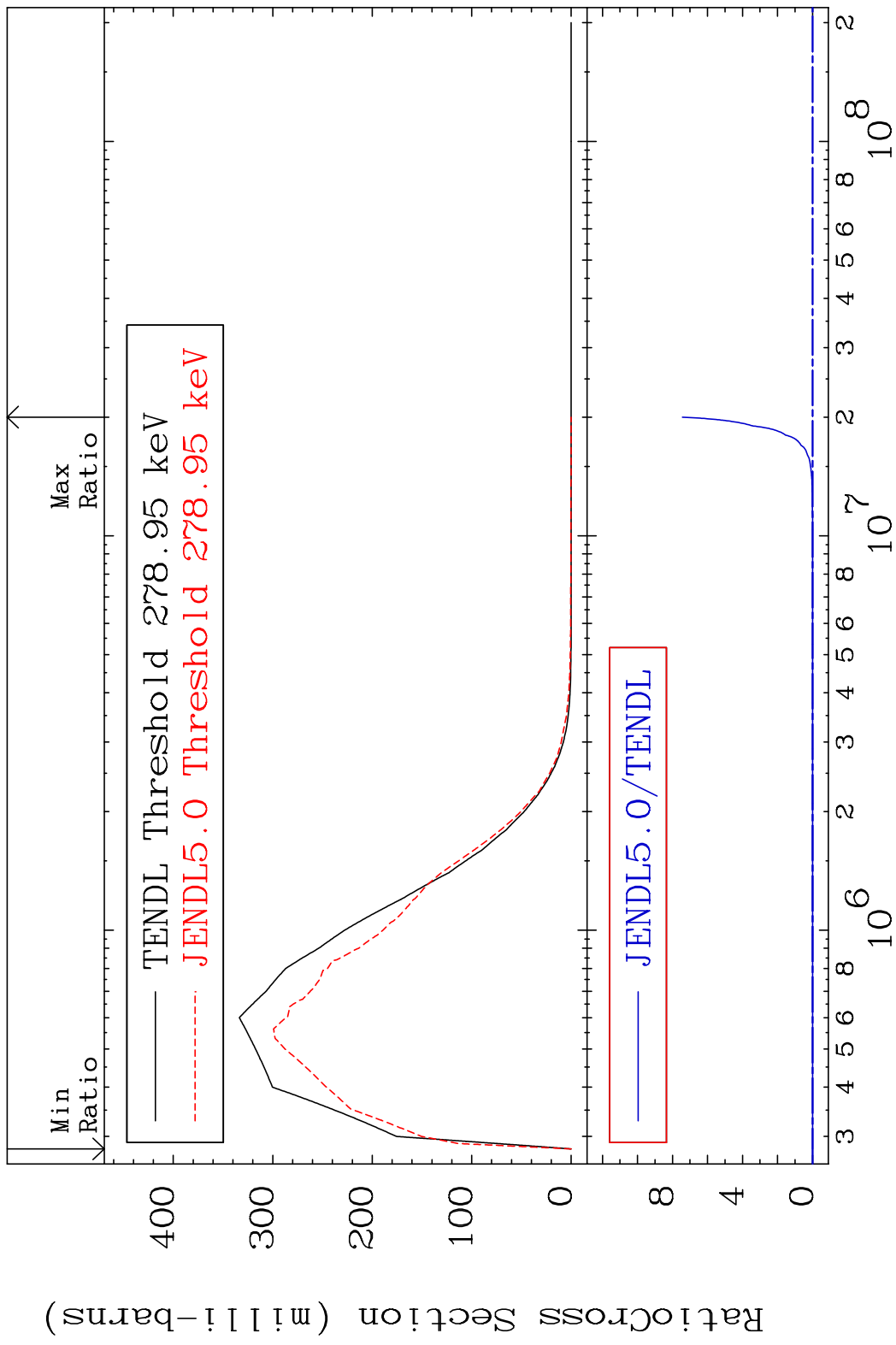
Cross Section -100.0 To -47.07%



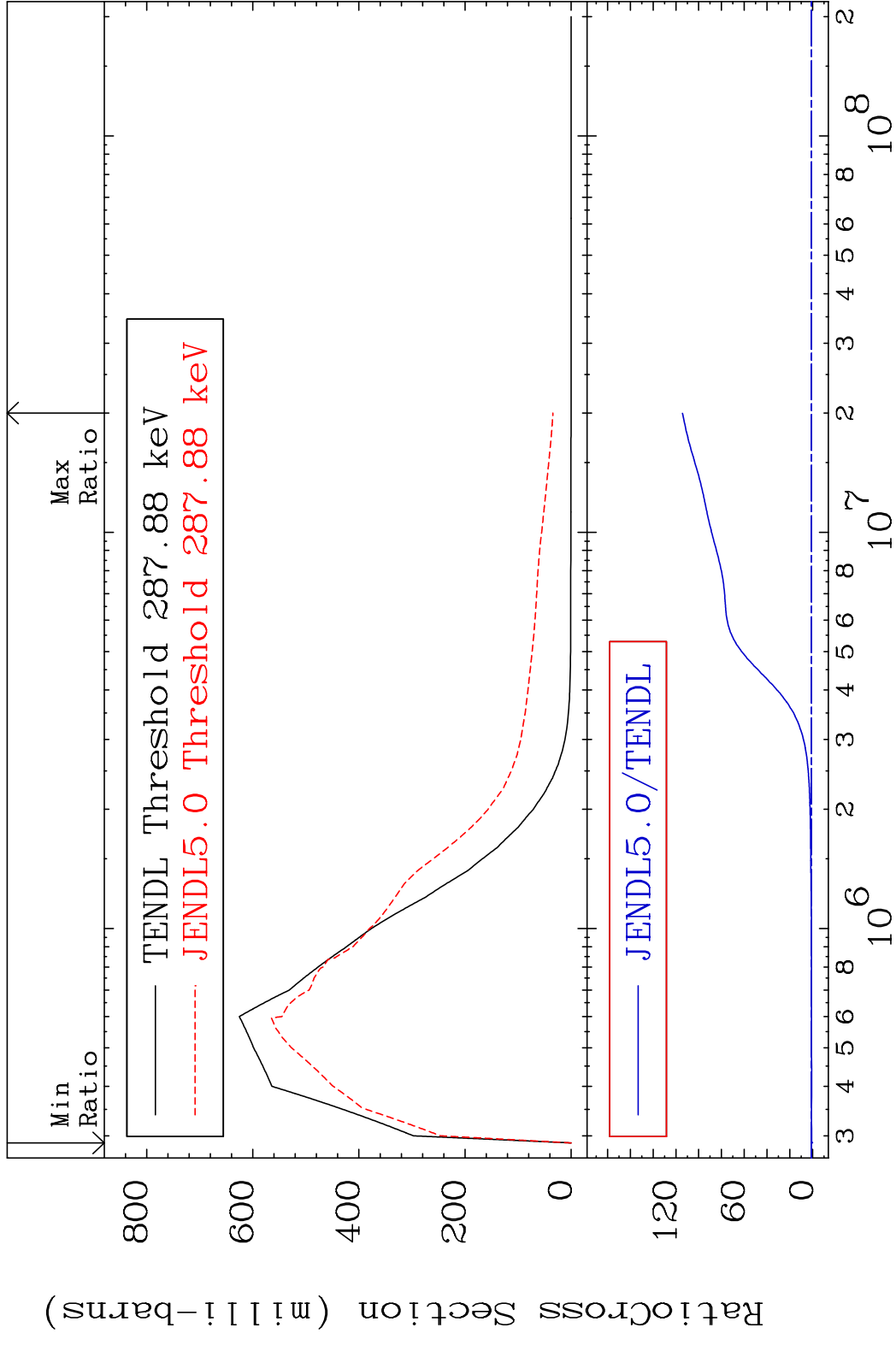
MAT 6240 MT= 51 (n,n') Level 62-Sm-149
 Cross Section -26.15 To 9999. %



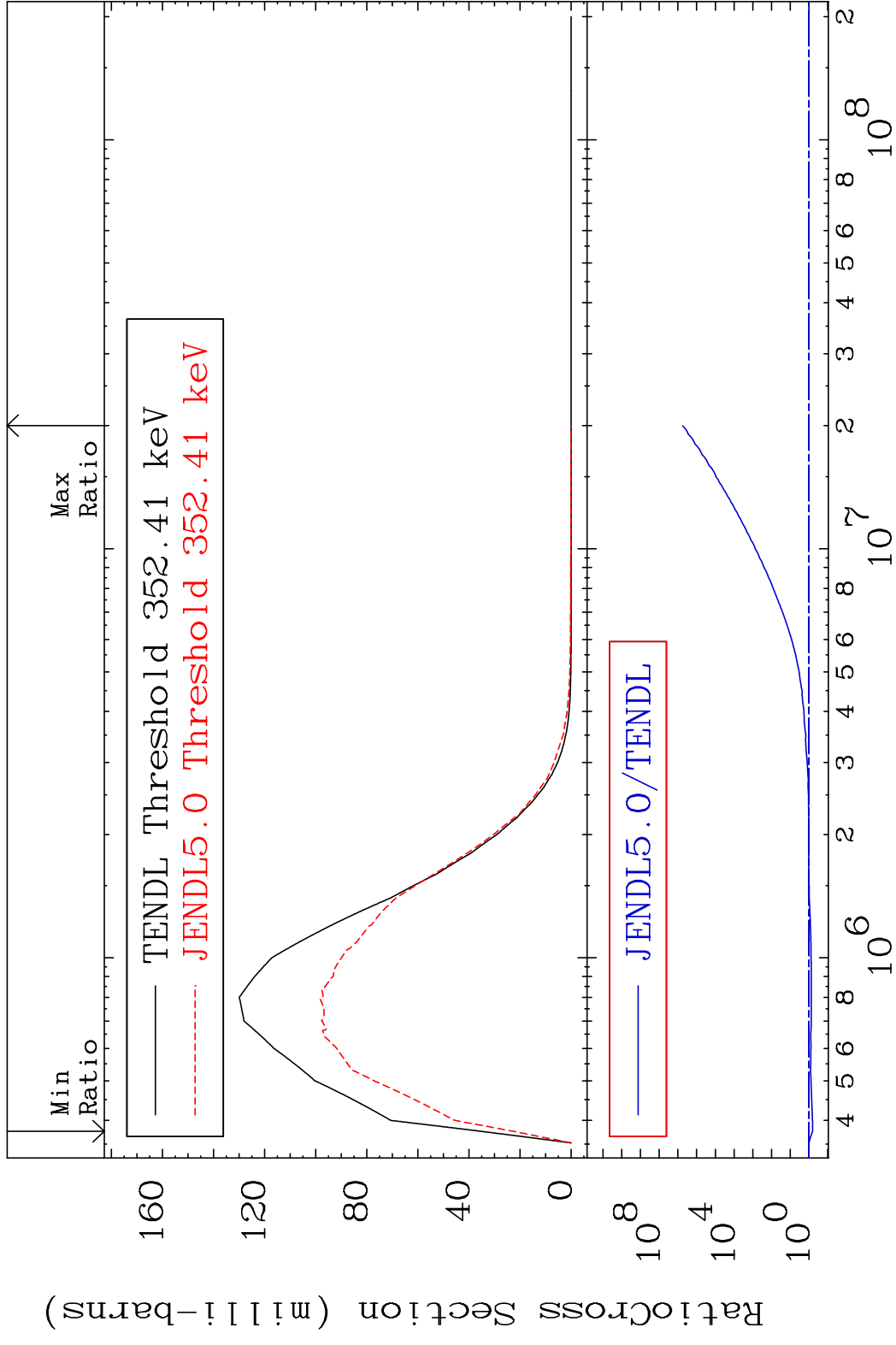
MAT 6240 MT= 52 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



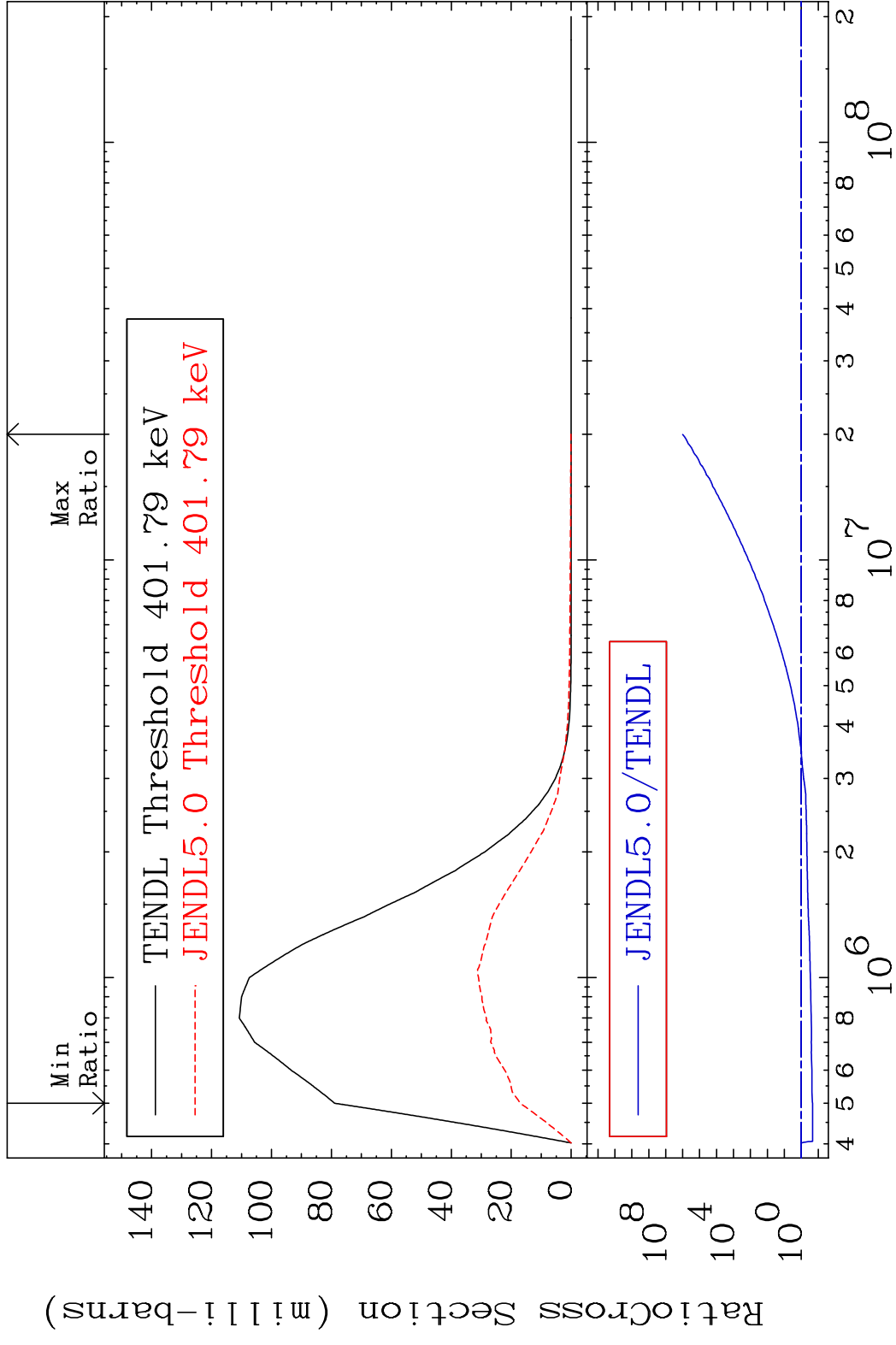
MAT 6240 MT= 53 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



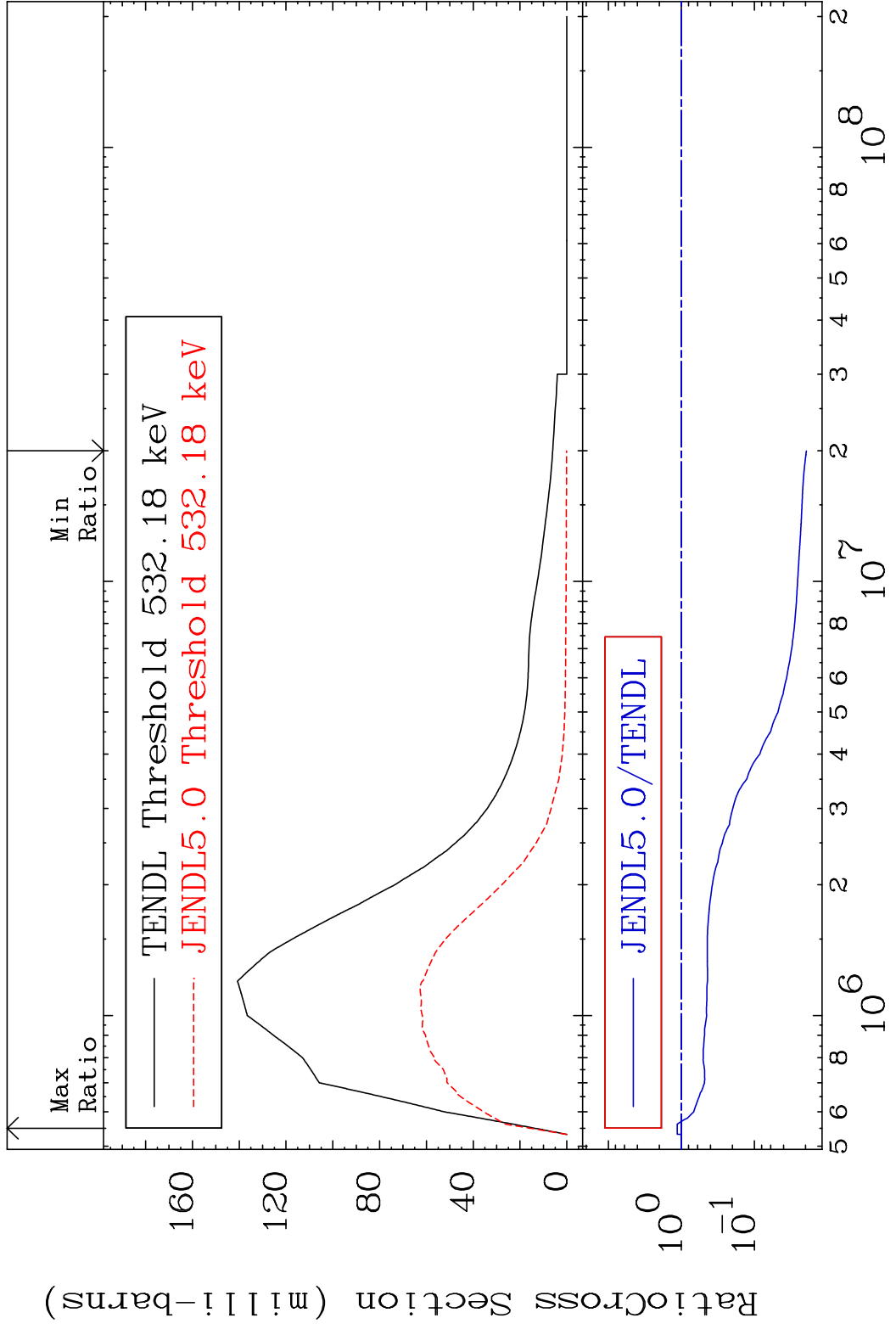
MAT 6240 MT= 54 (n,n') Level 62-Sm-149
 Cross Section -35.63 To 9999. %



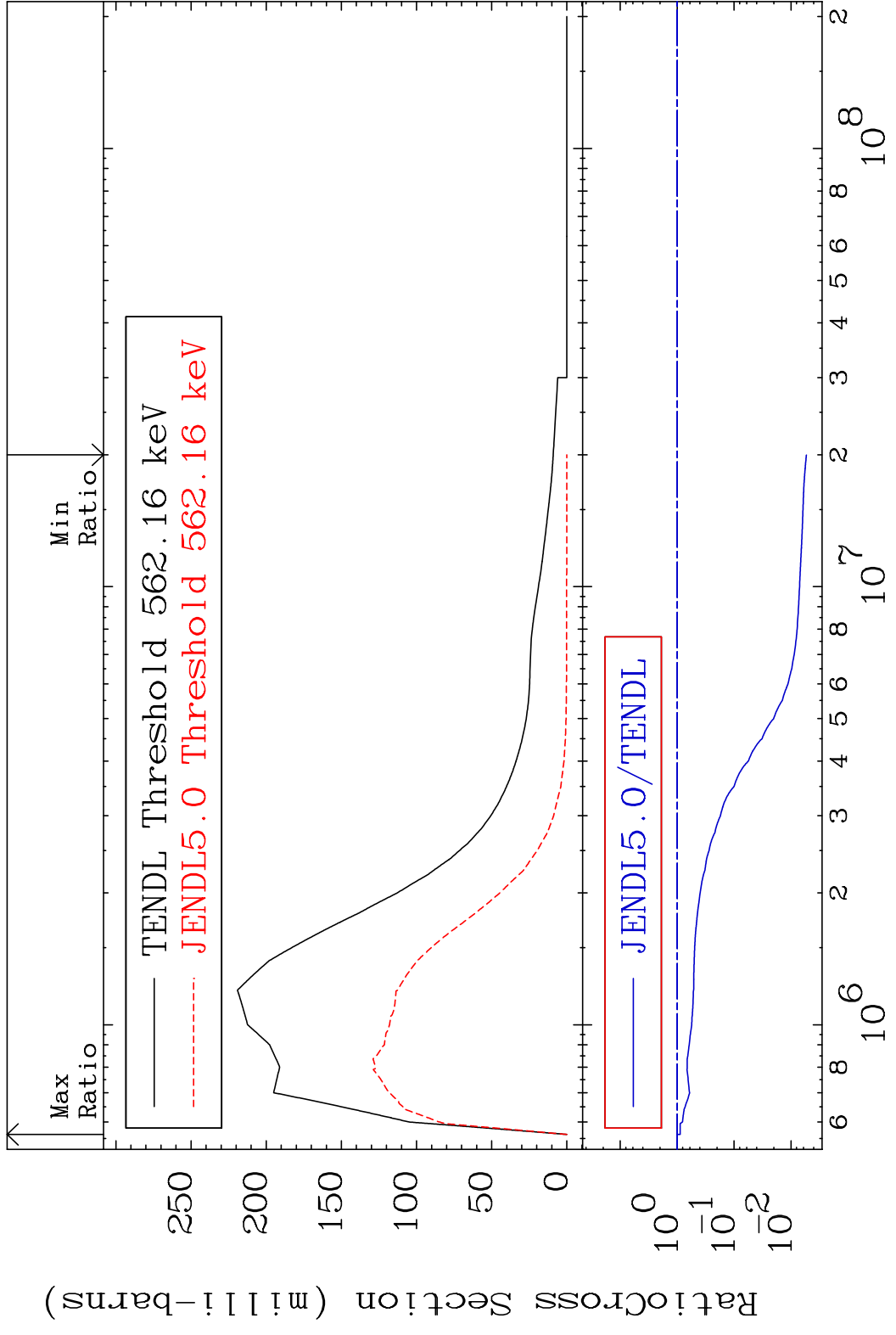
MAT 6240 MT= 55 (n,n') Level 62-Sm-149
 Cross Section -78.49 To 9999. %



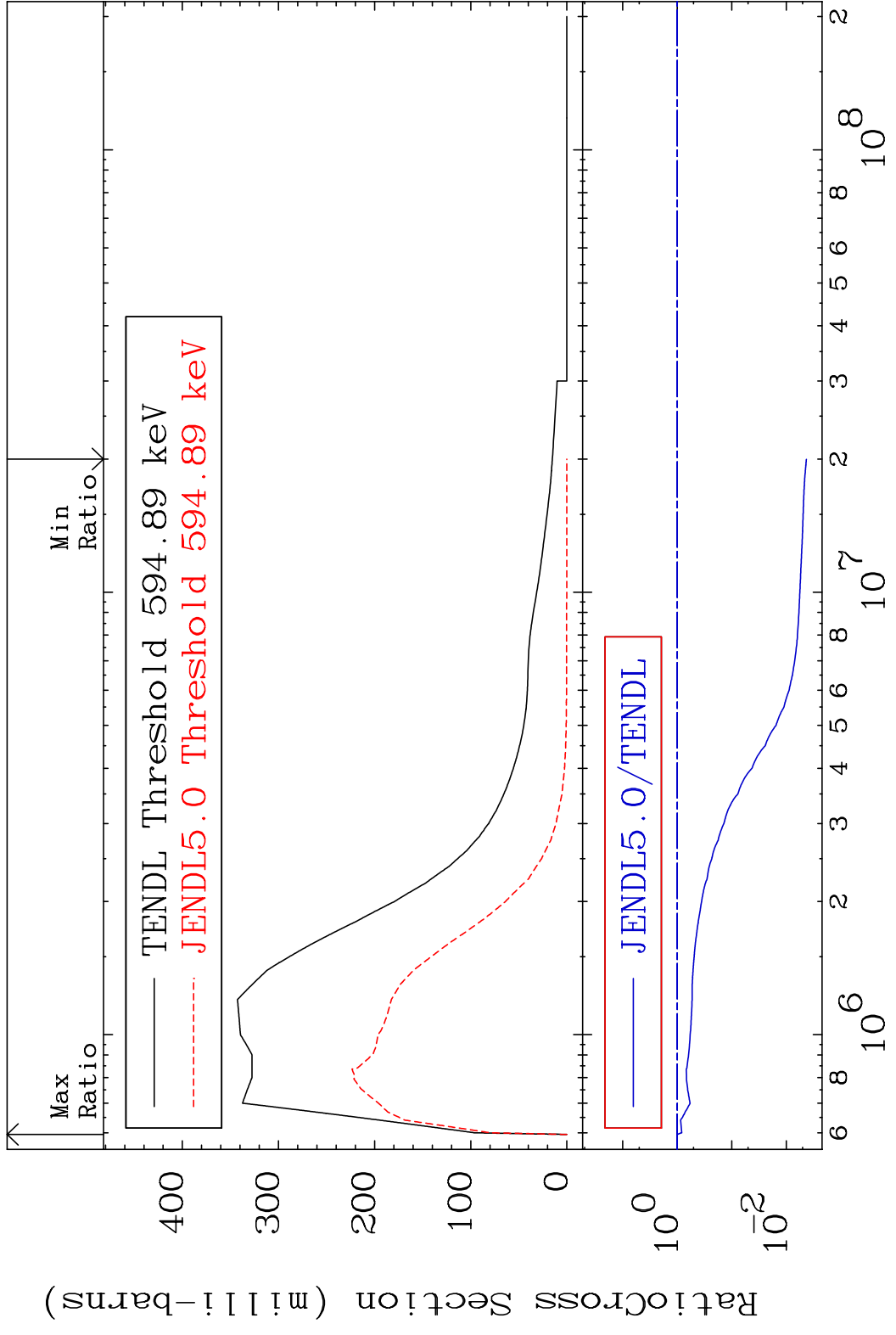
MAT 6240 MT= 56 (n, n') Level 62-Sm-149
 Cross Section -98.05 To 14.15 %



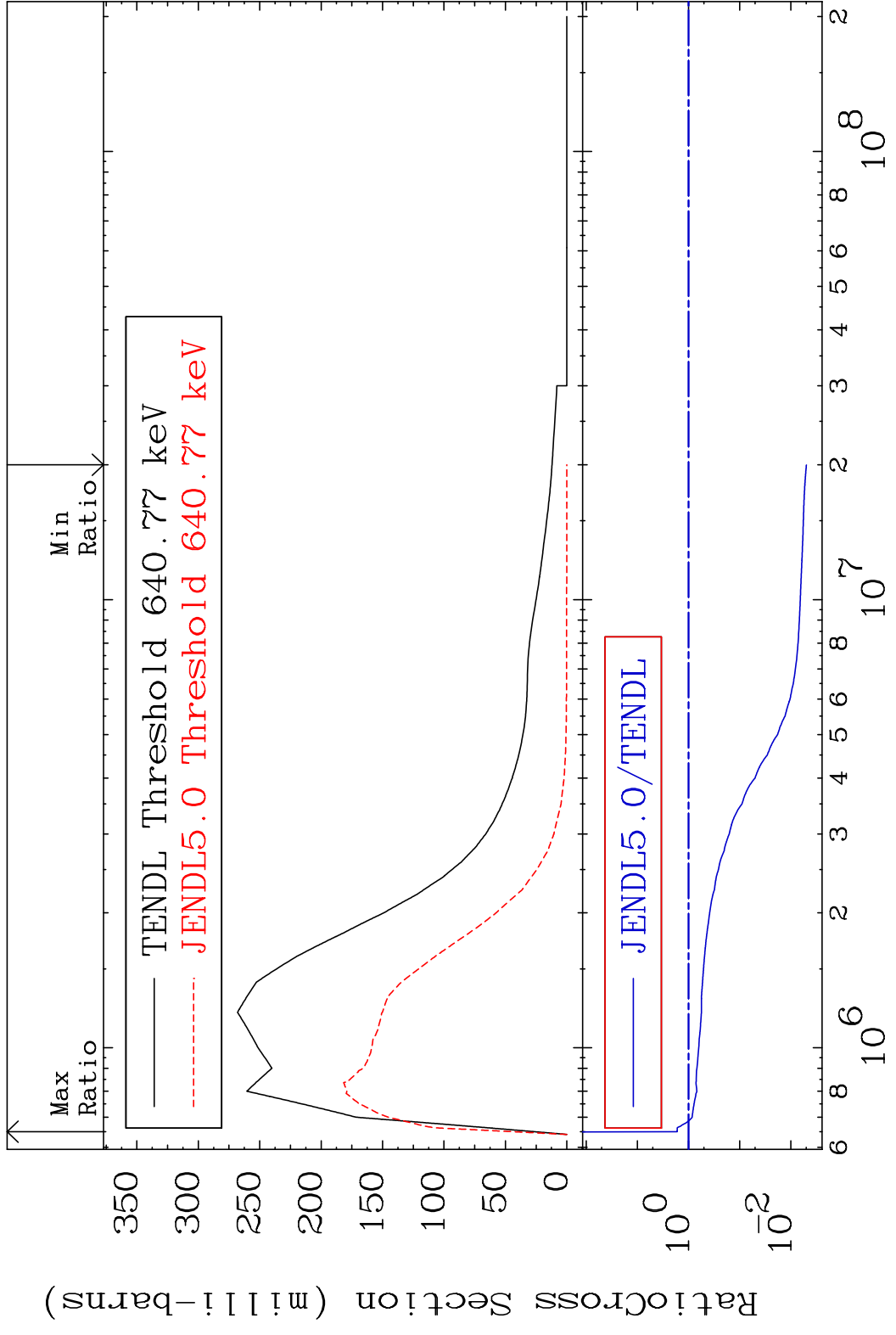
MAT 6240 MT= 57 (n, n') Level 62-Sm-149
 Cross Section -99.46 To 0.000 %



MAT 6240 MT= 58 (n,n') Level 62-Sm-149
 Cross Section -99.57 To 0.000 %

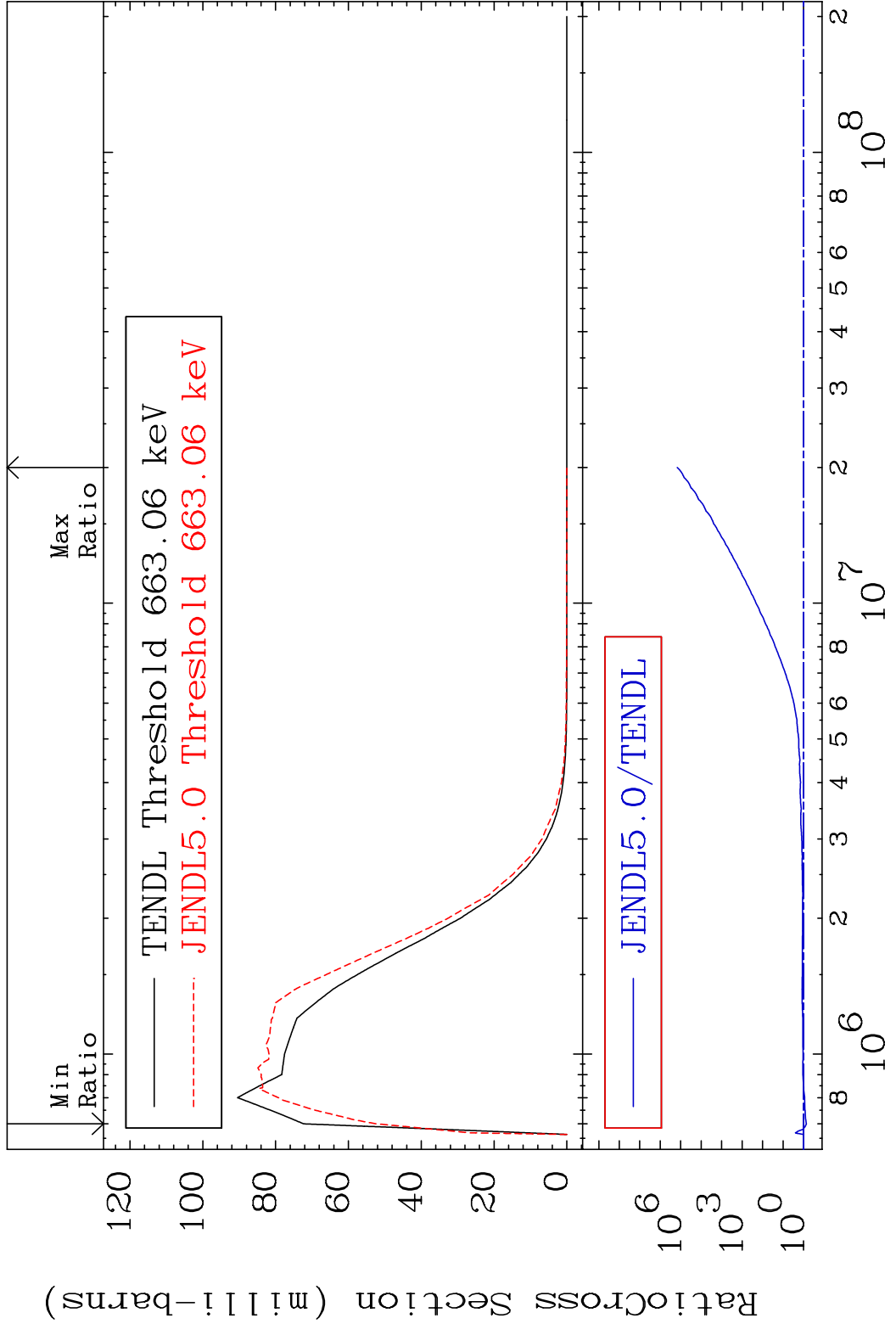


MAT 6240 MT= 59 (n, n') Level 62-Sm-149
 Cross Section -99.50 To 66.86 %

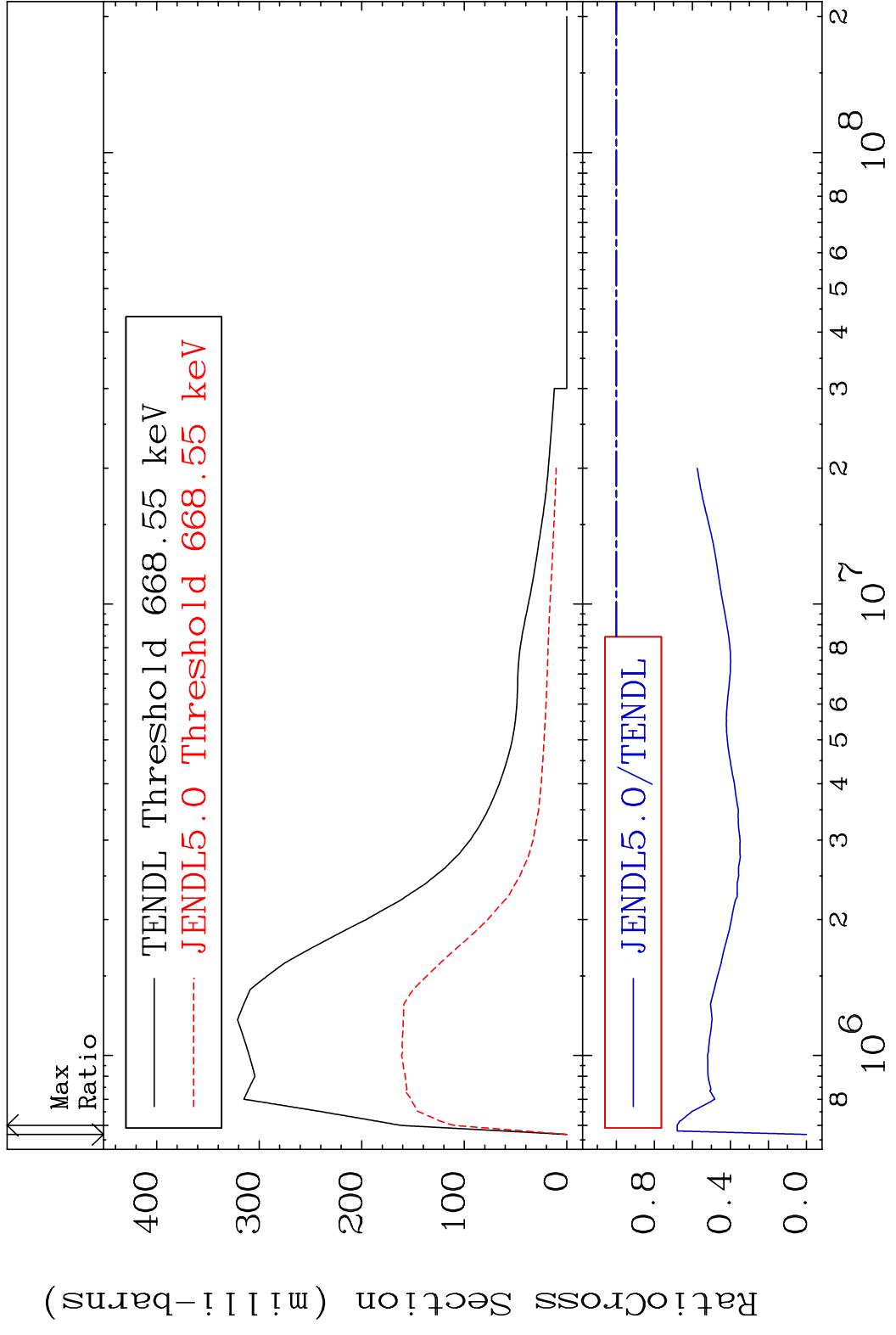


20 Incident Energy (eV) 62-Sm-149

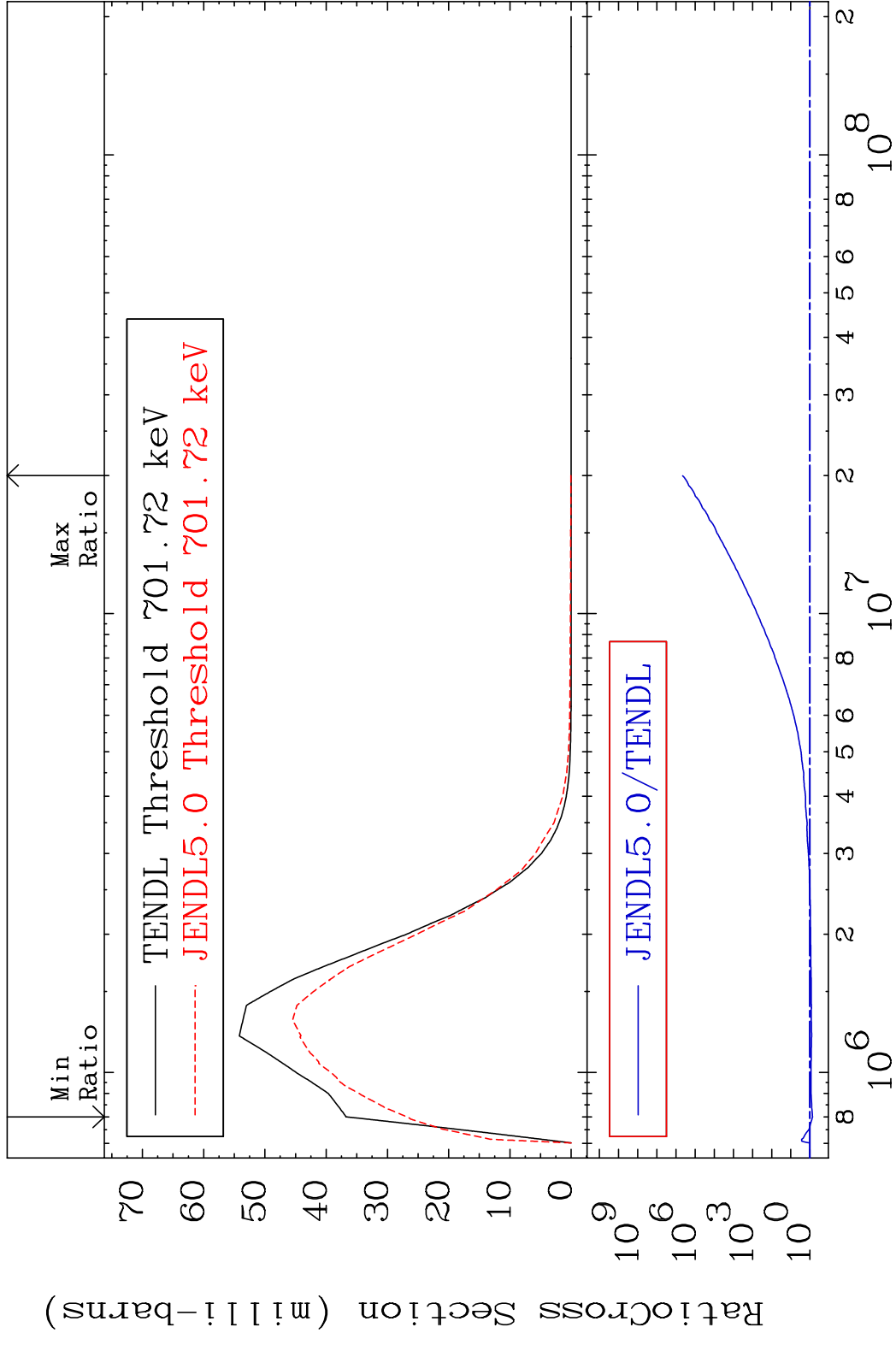
MAT 6240 MT= 60 (n, n') Level 62-Sm-149
 Cross Section -27.73 To 9999. %



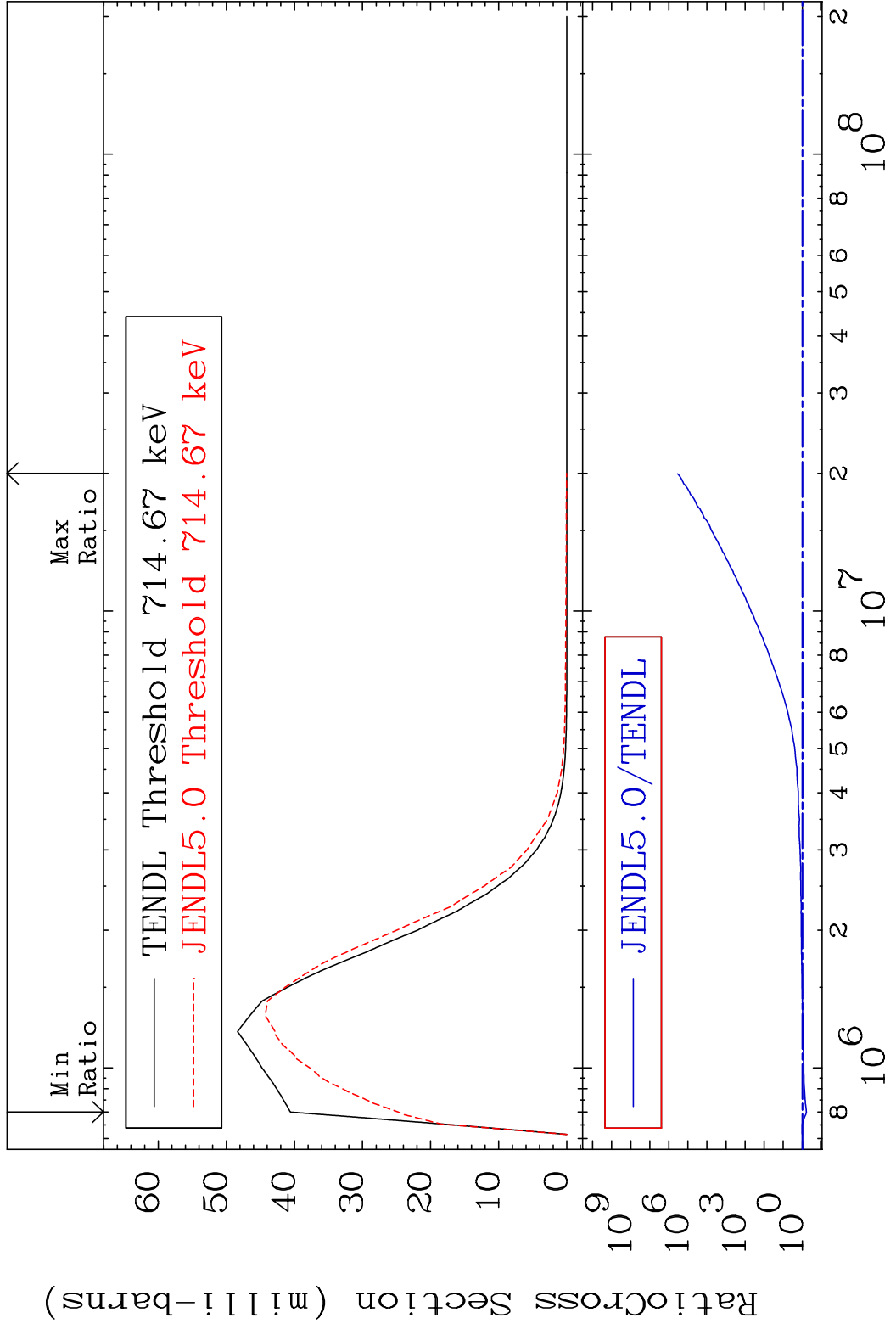
MAT 6240 MT= 61 (n,n') Level 62-Sm-149
 Cross Section -100.0 To -32.00%



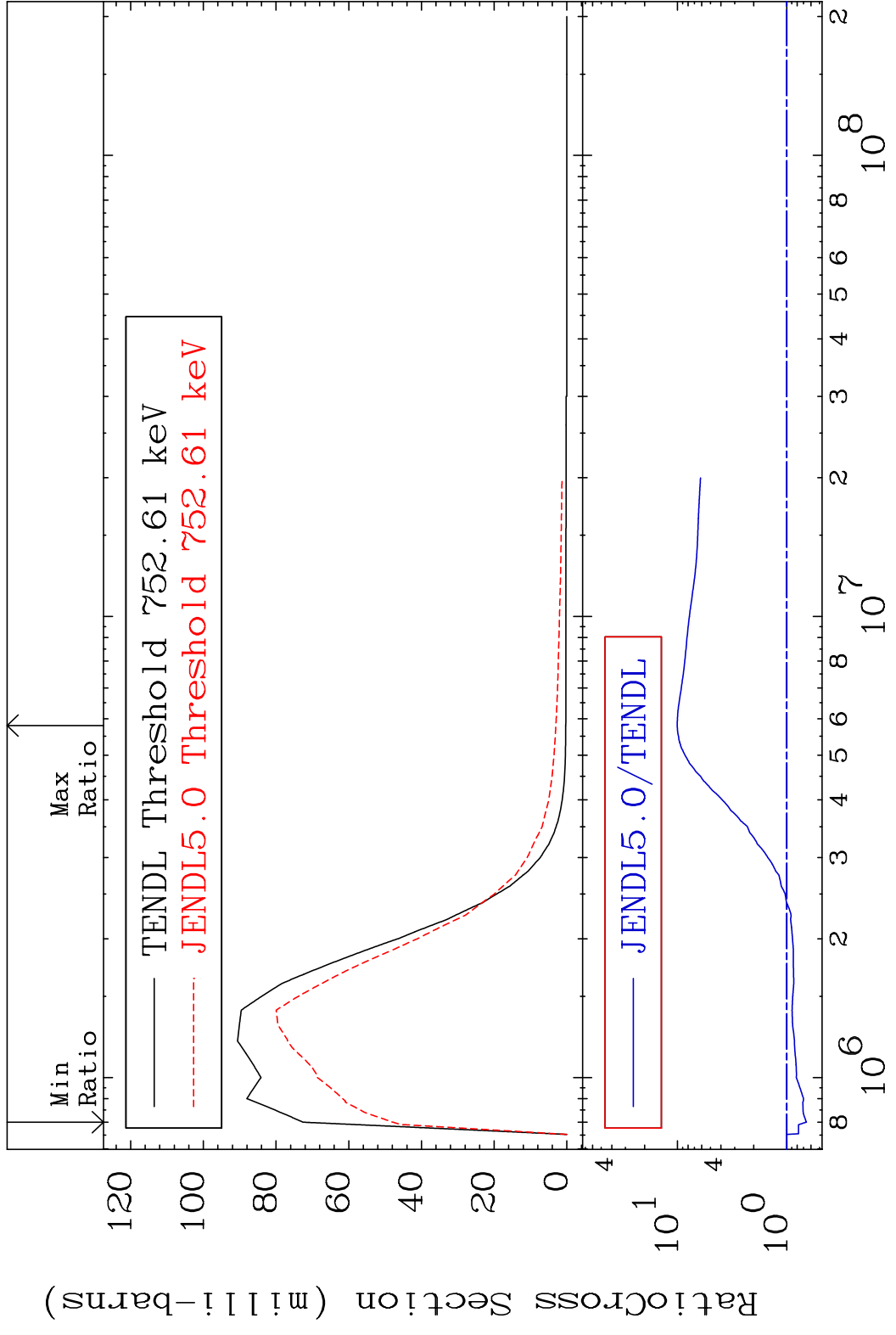
MAT 6240 MT= 62 (n, n') Level 62-Sm-149
 Cross Section -26.85 To 9999. %



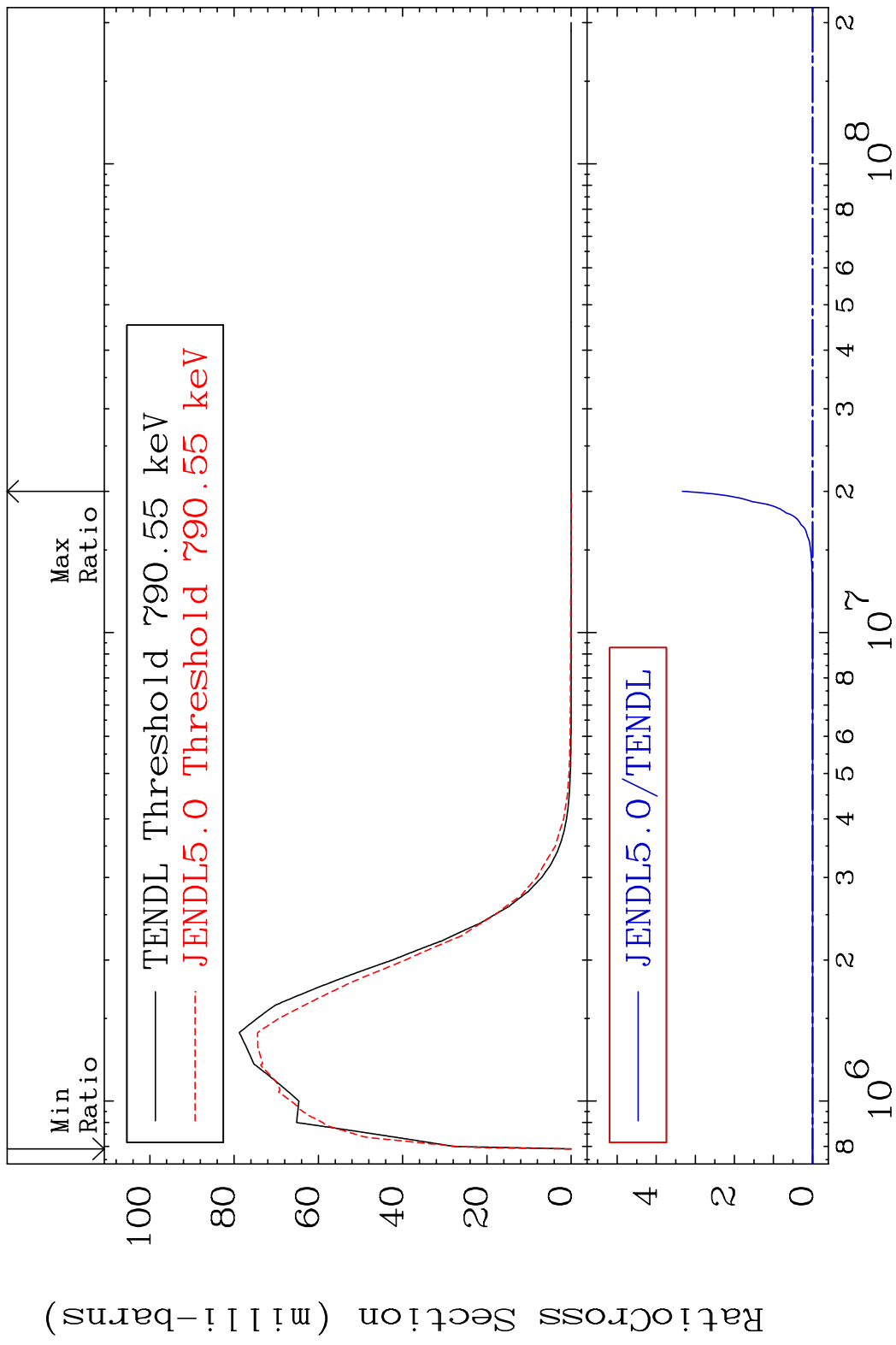
MAT 6240 MT= 63 (n, n') Level 62-Sm-149
 Cross Section -38.98 To 9999. %



MAT 6240 MT= 64 (n, n') Level 62-Sm-149
 Cross Section -34.04 To 907.7 %

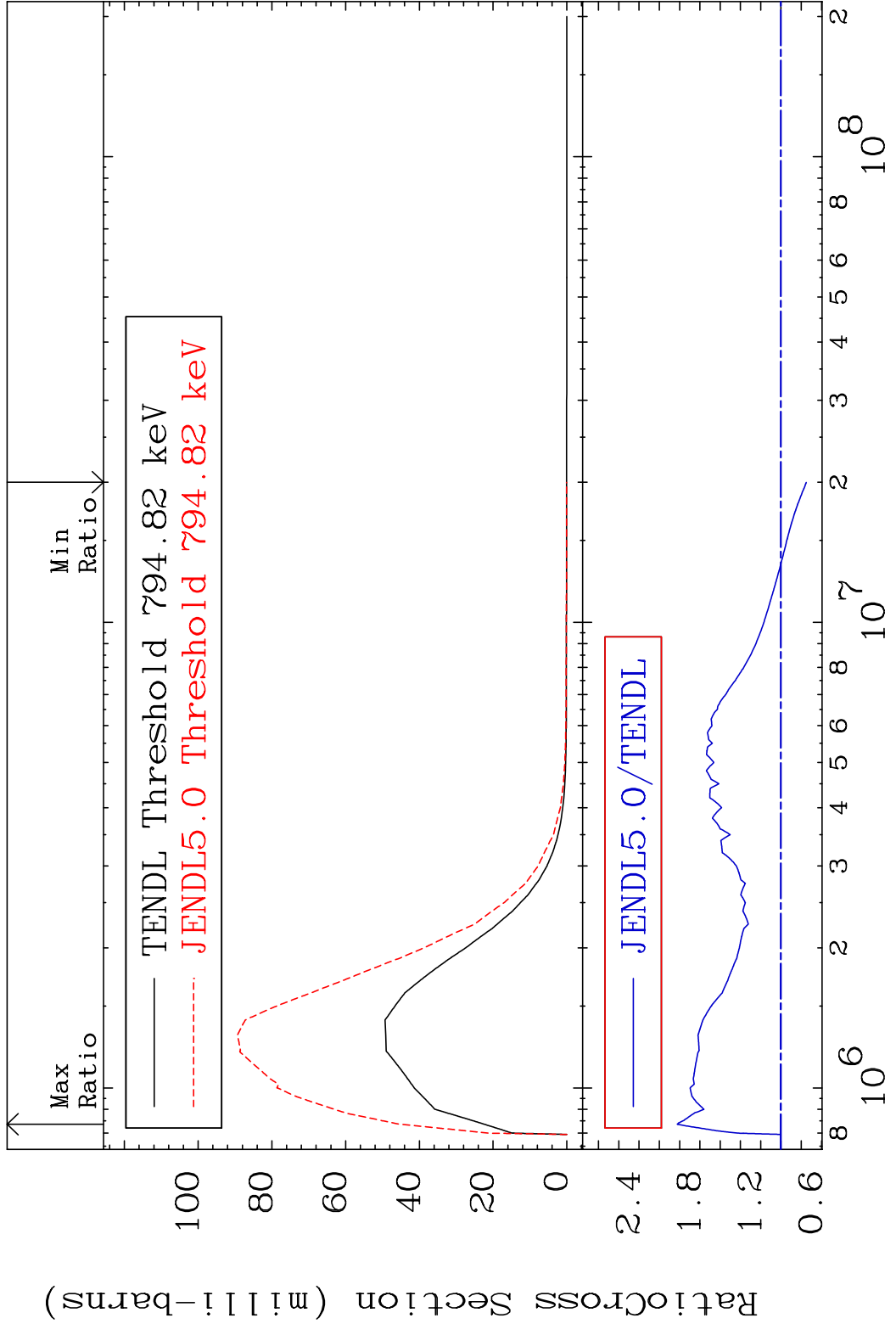


MAT 6240 MT= 65 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %

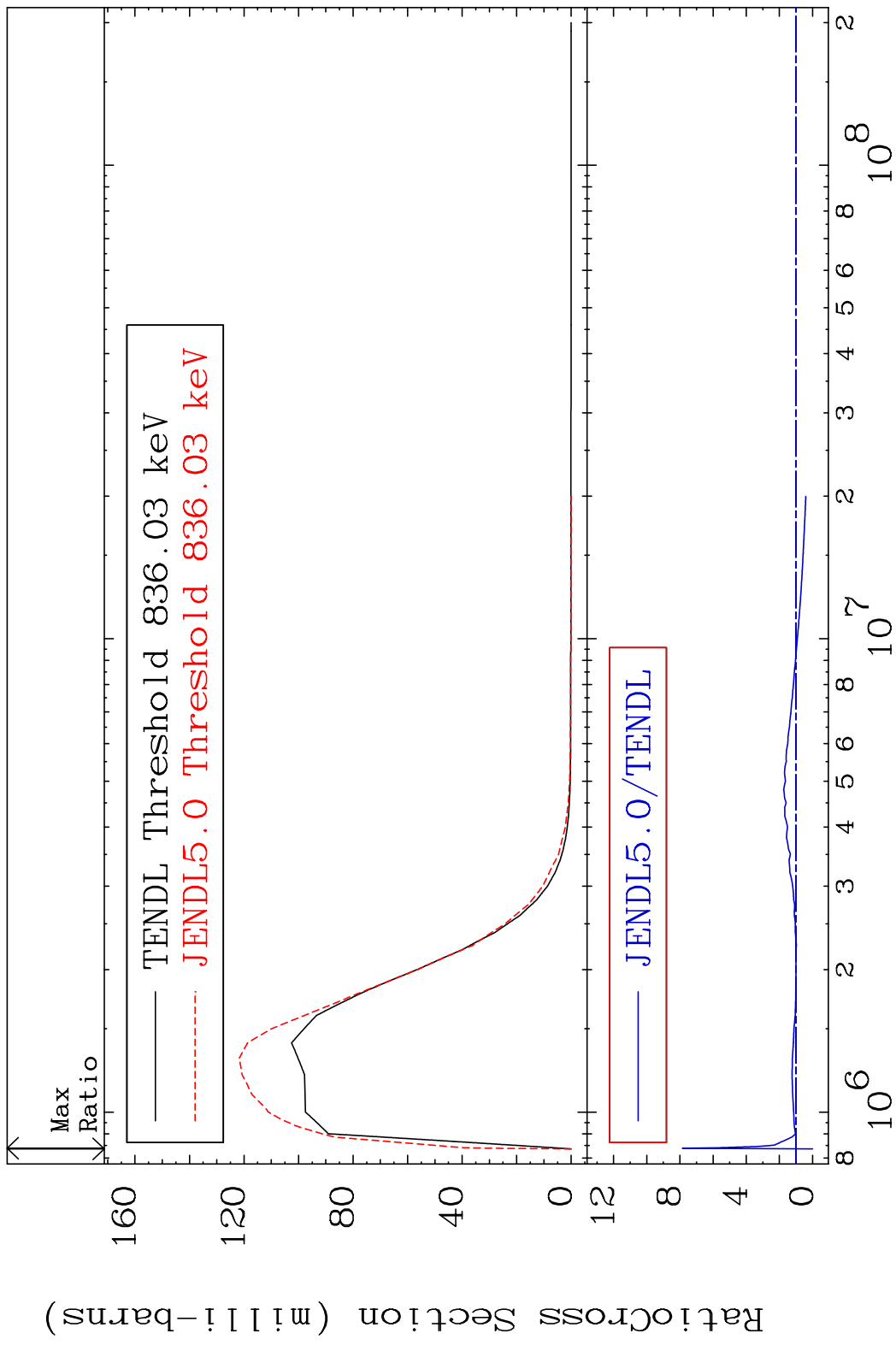


26 Incident Energy (eV) 62-Sm-149

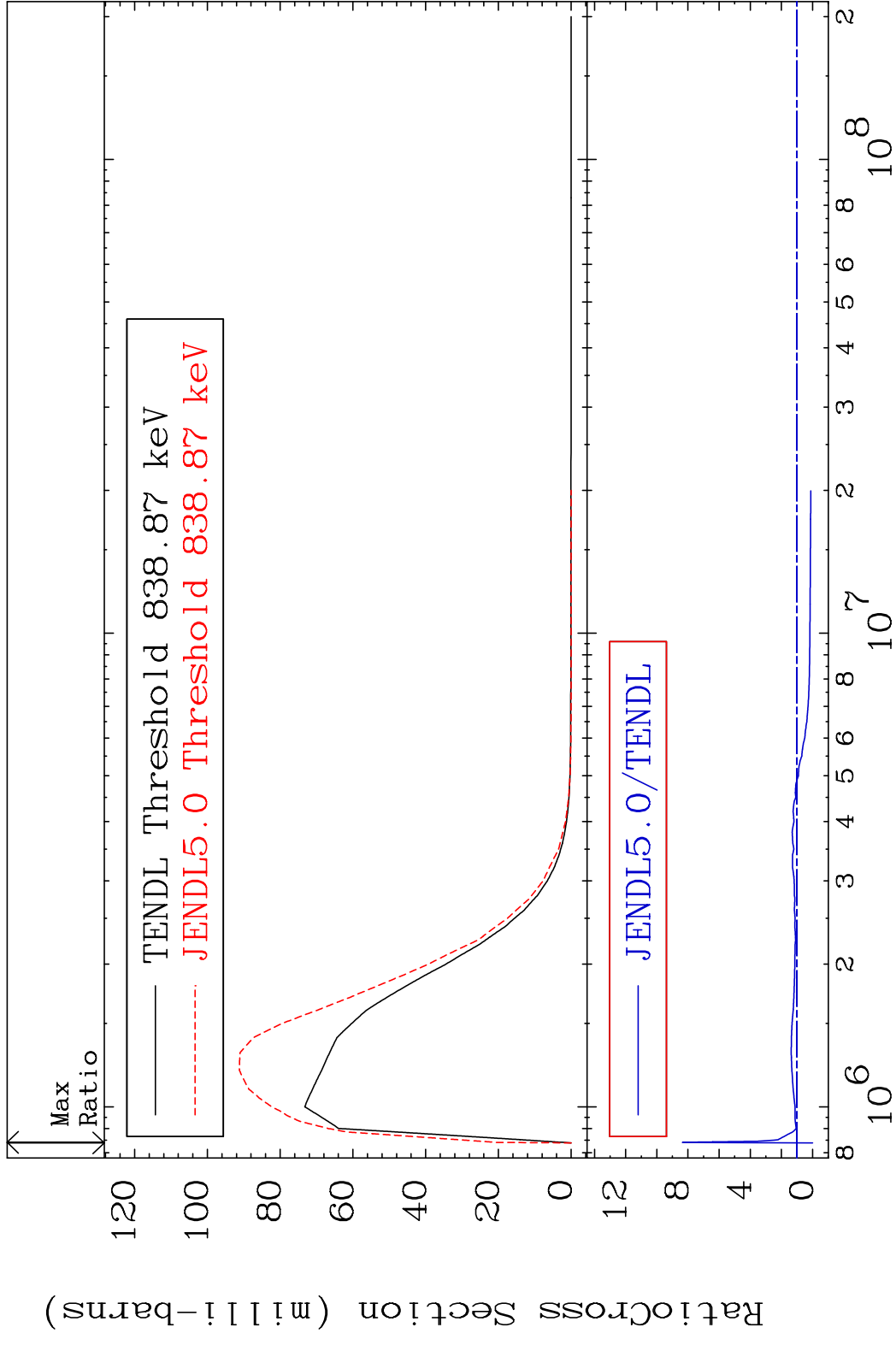
MAT 6240 MT= 66 (n, n') Level 62-Sm-149
 Cross Section -25.09 To 102.4 %



MAT 6240 MT= 67 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 685.3 %

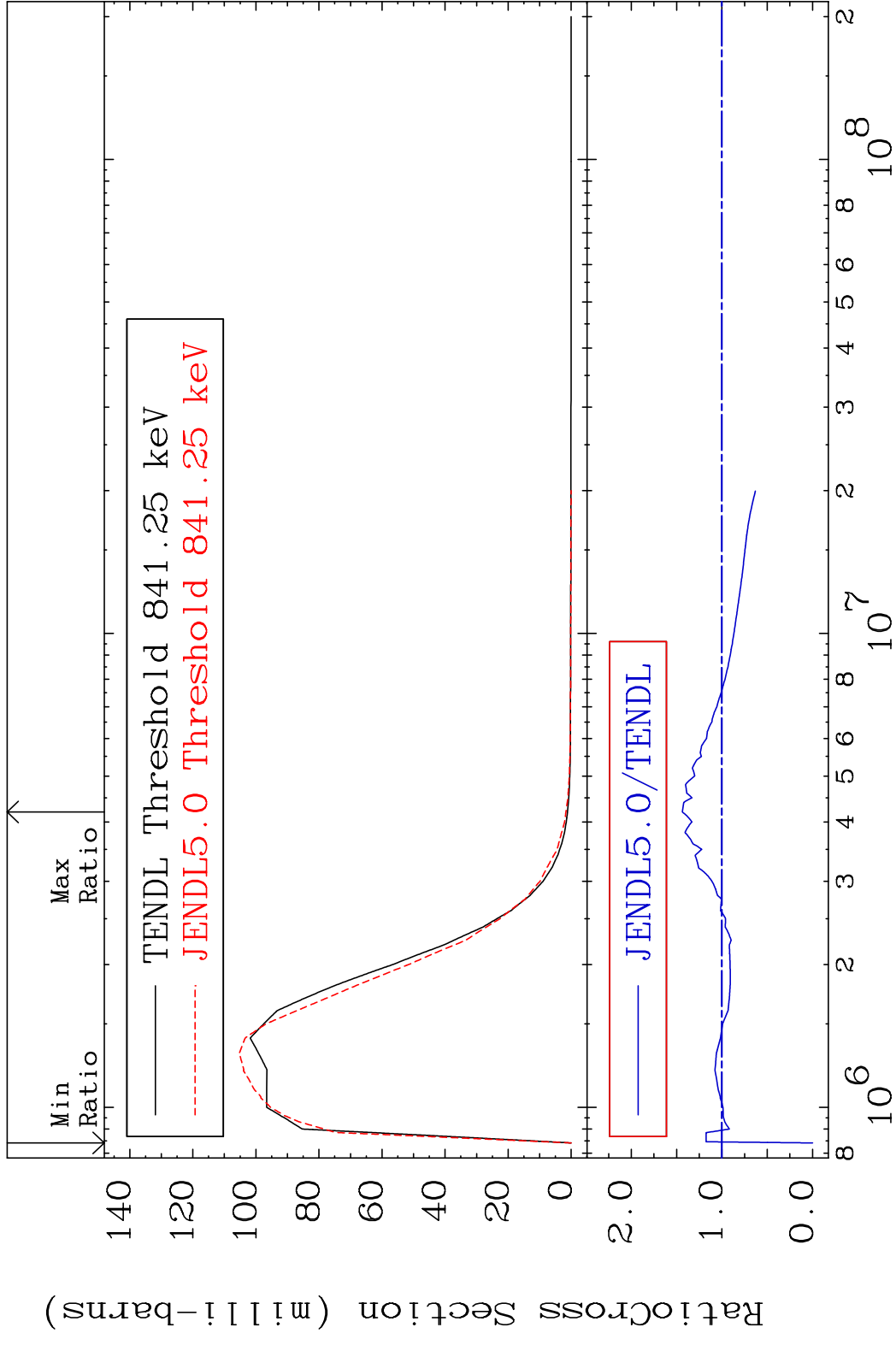


MAT 6240 MT= 68 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 736.0 %



29 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 69 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 43.69 %



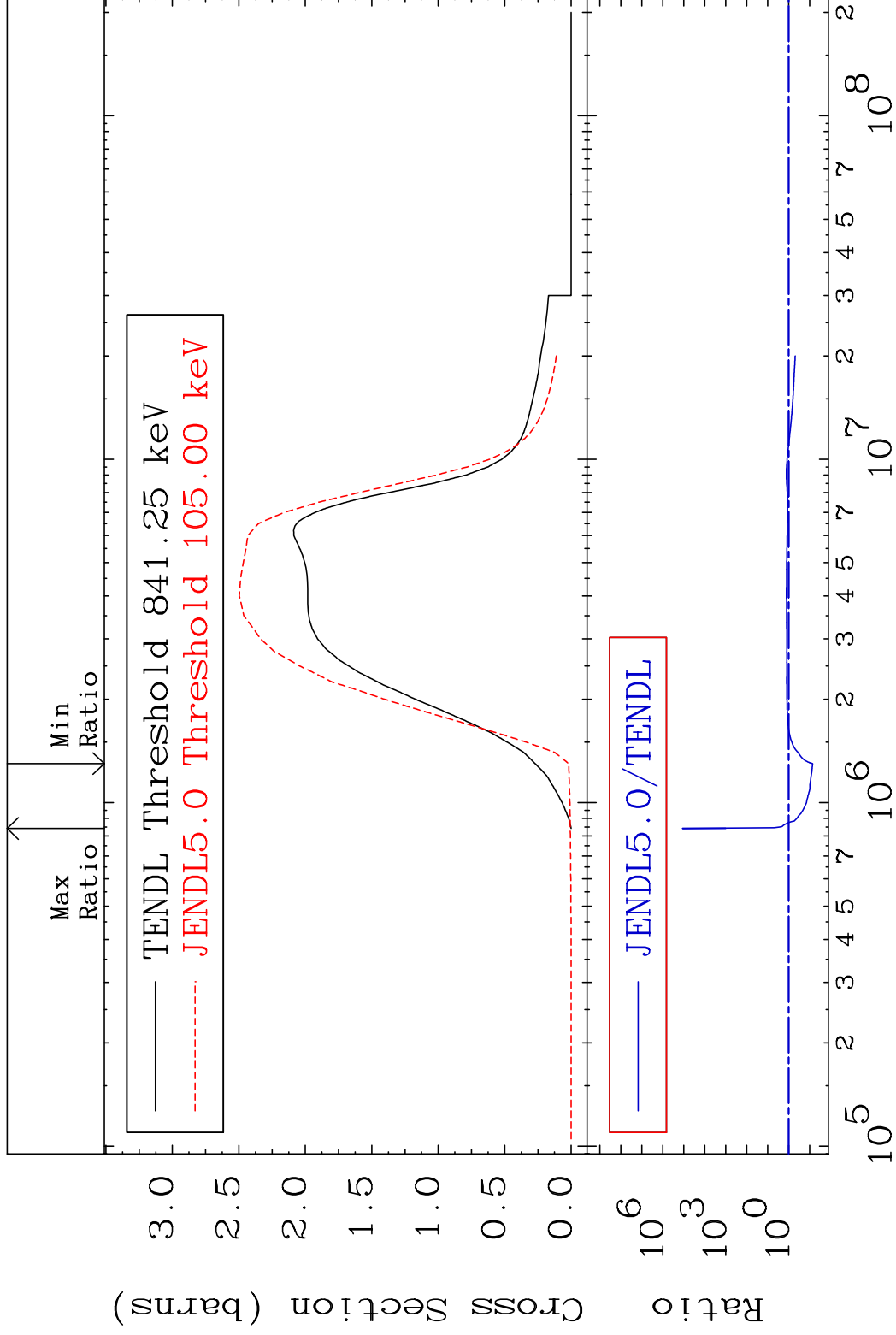
30 Incident Energy (eV) 62-Sm-149

MAT 6240

(n, n') Continuum

62-Sm-149

Cross Section -92.82 To 9999. %



31

Incident Energy (eV)

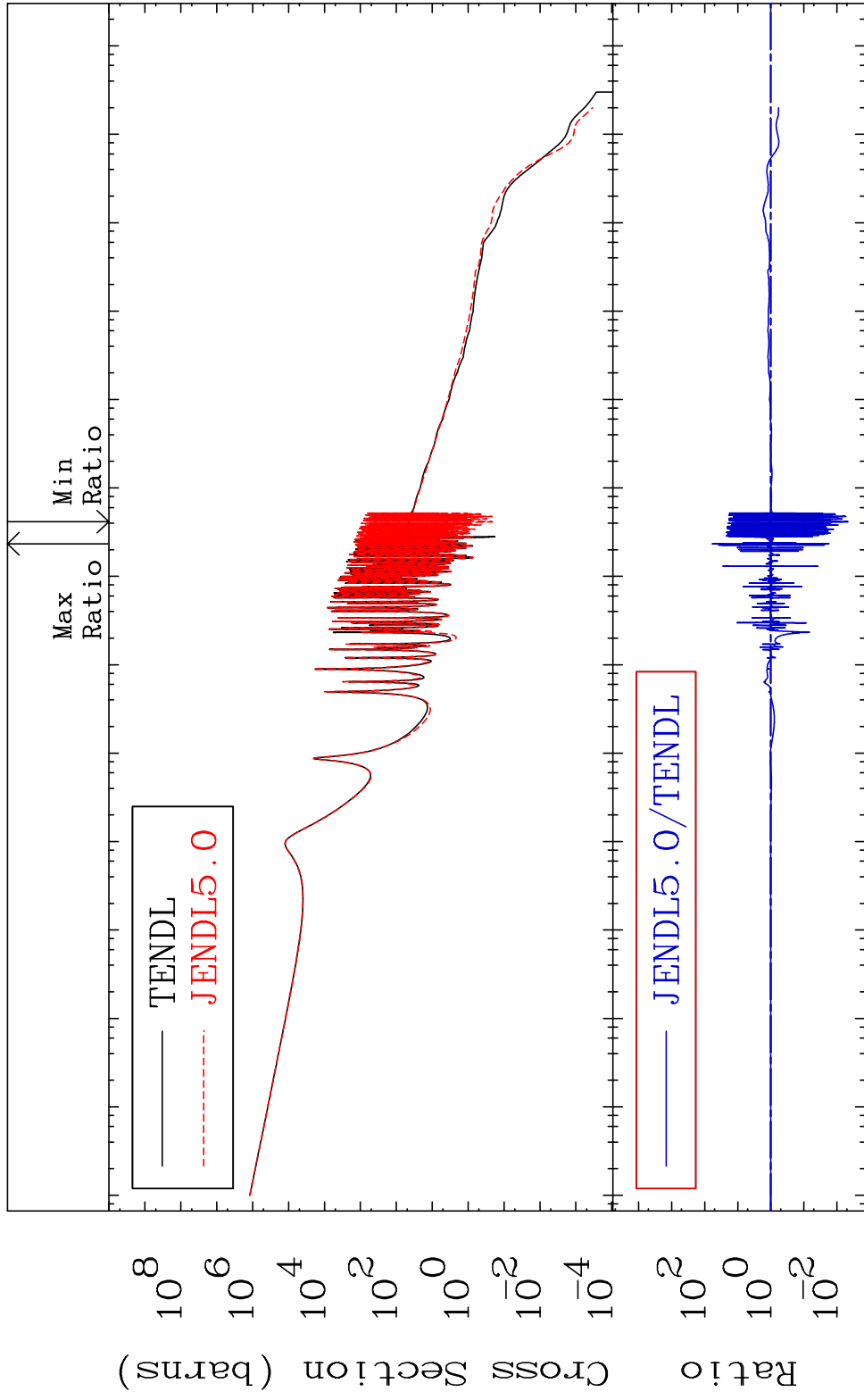
62-Sm-149

MAT 6240

(n, γ)

62-Sm-149

Cross Section -99.54 To 5755. %



32

Incident Energy (eV)

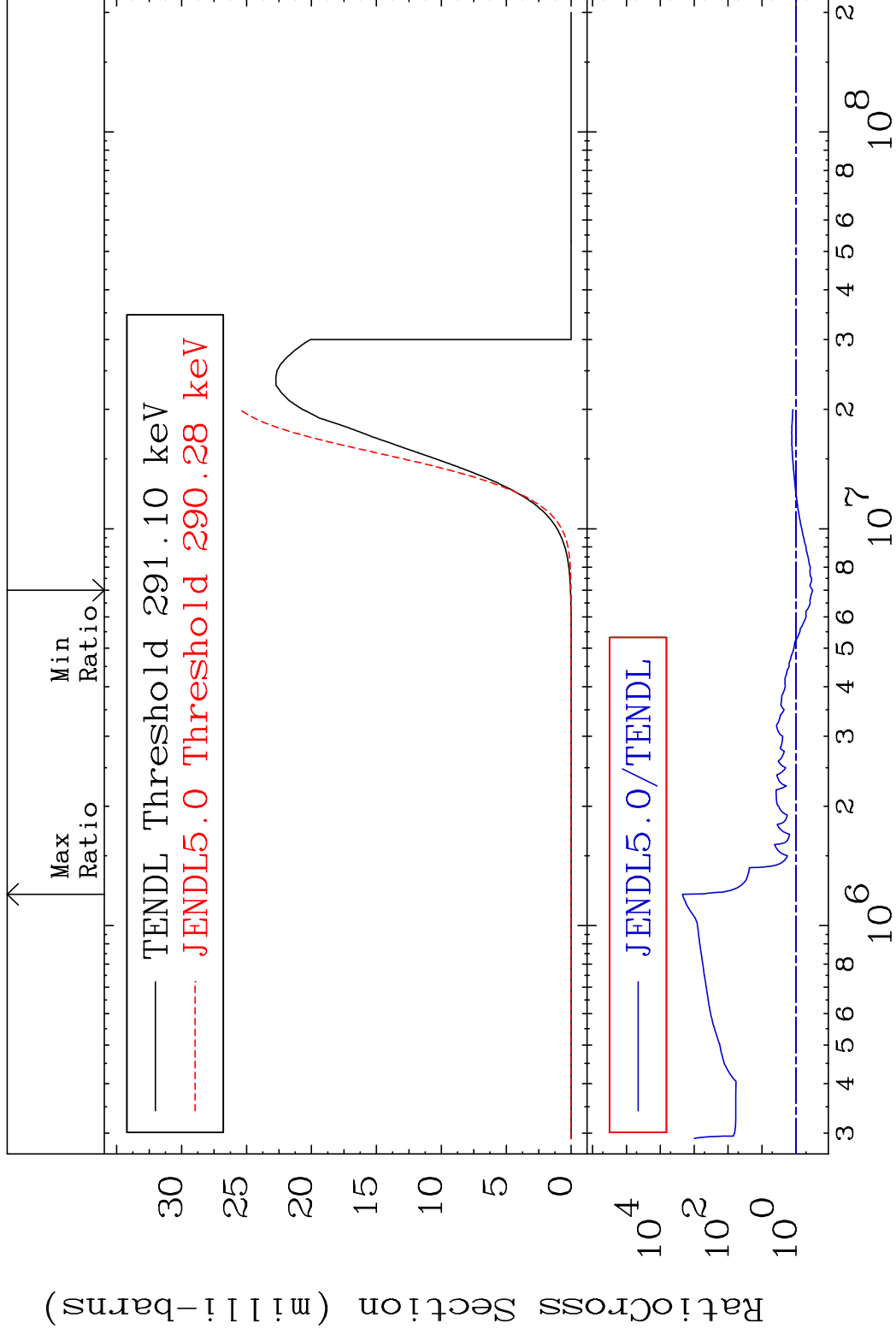
62-Sm-149

MAT 6240

(n, p)

62-Sm-149

Cross Section -67.83 To 9999. %

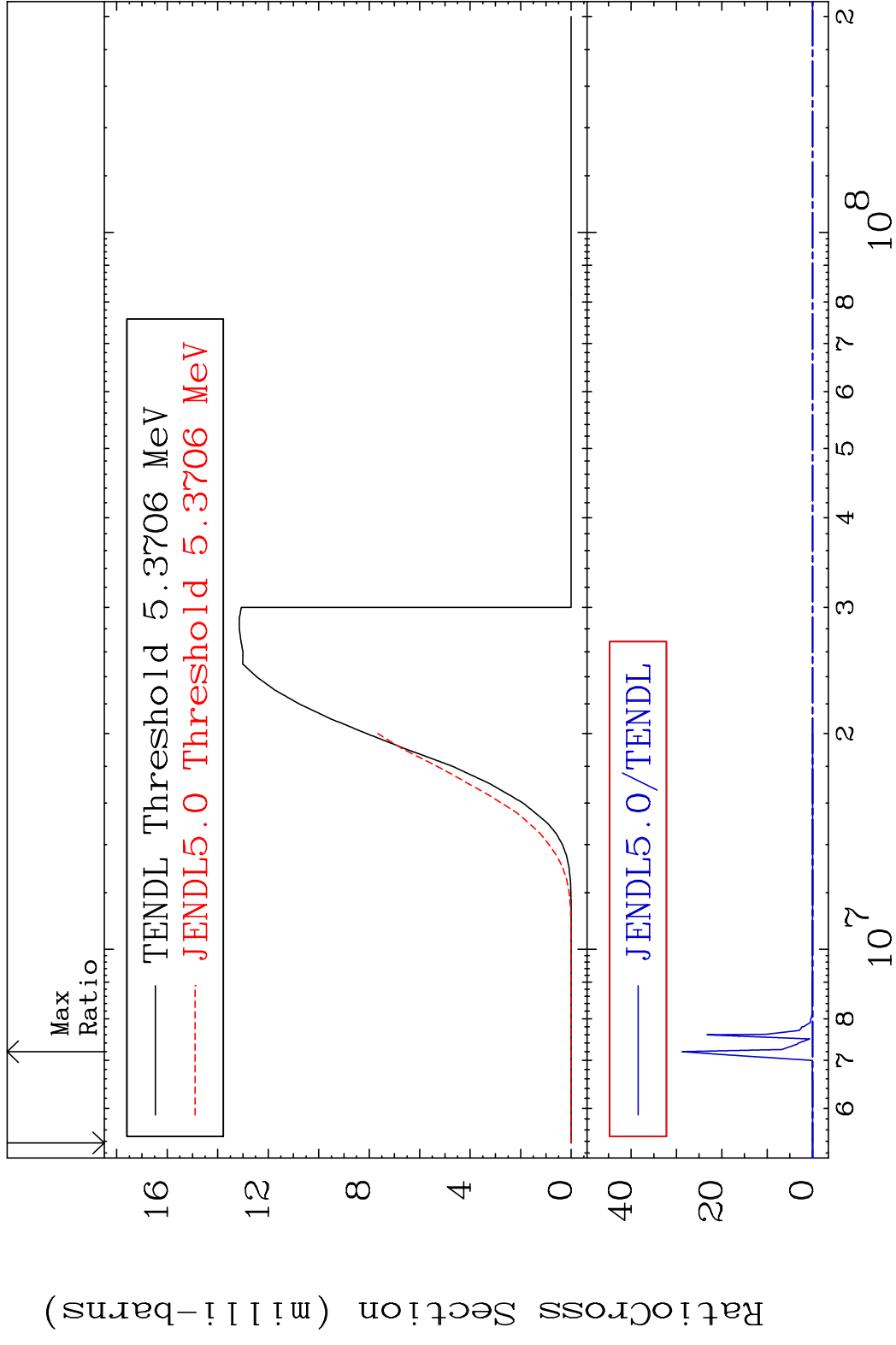


33

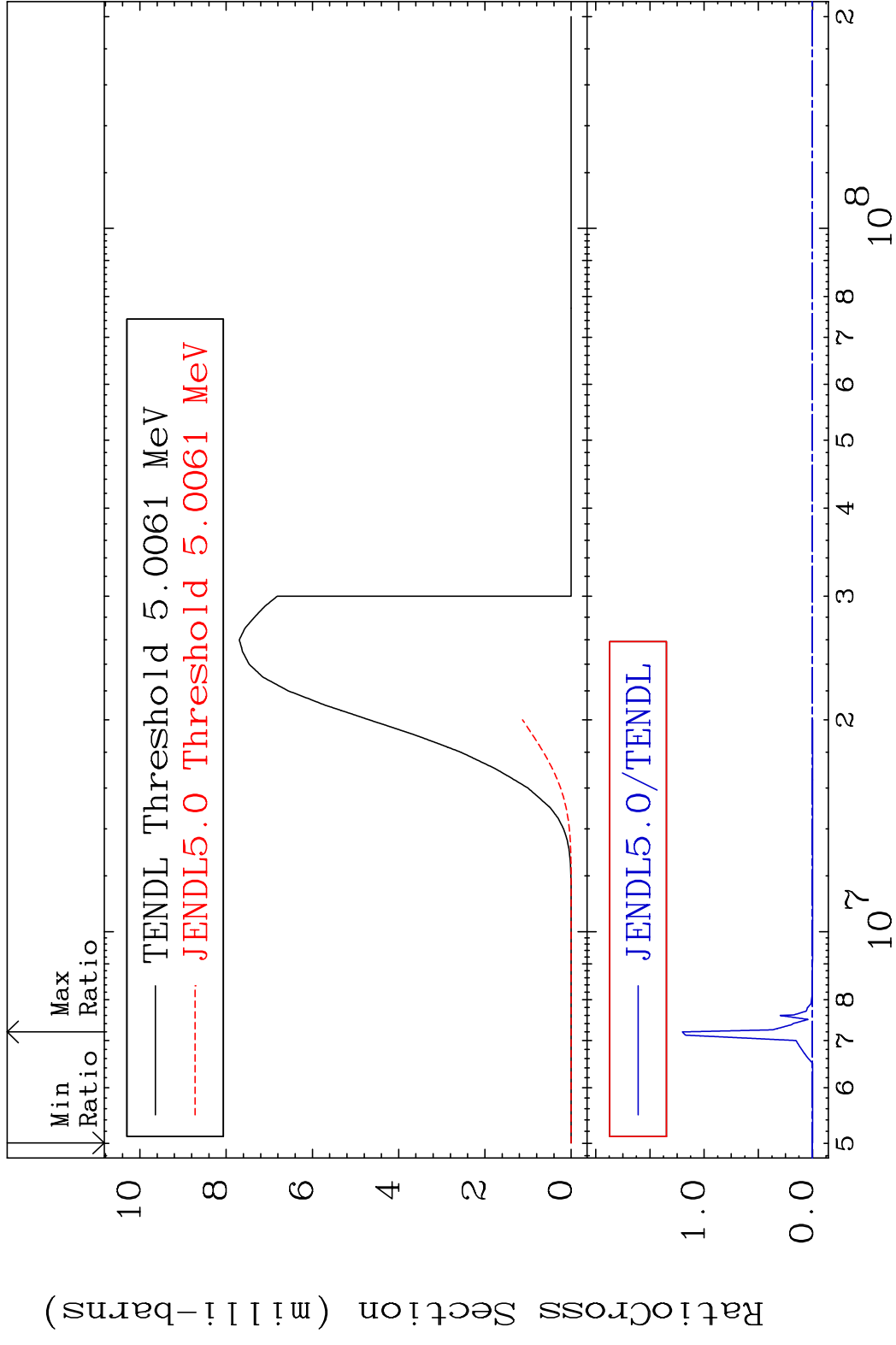
Incident Energy (eV)

62-Sm-149

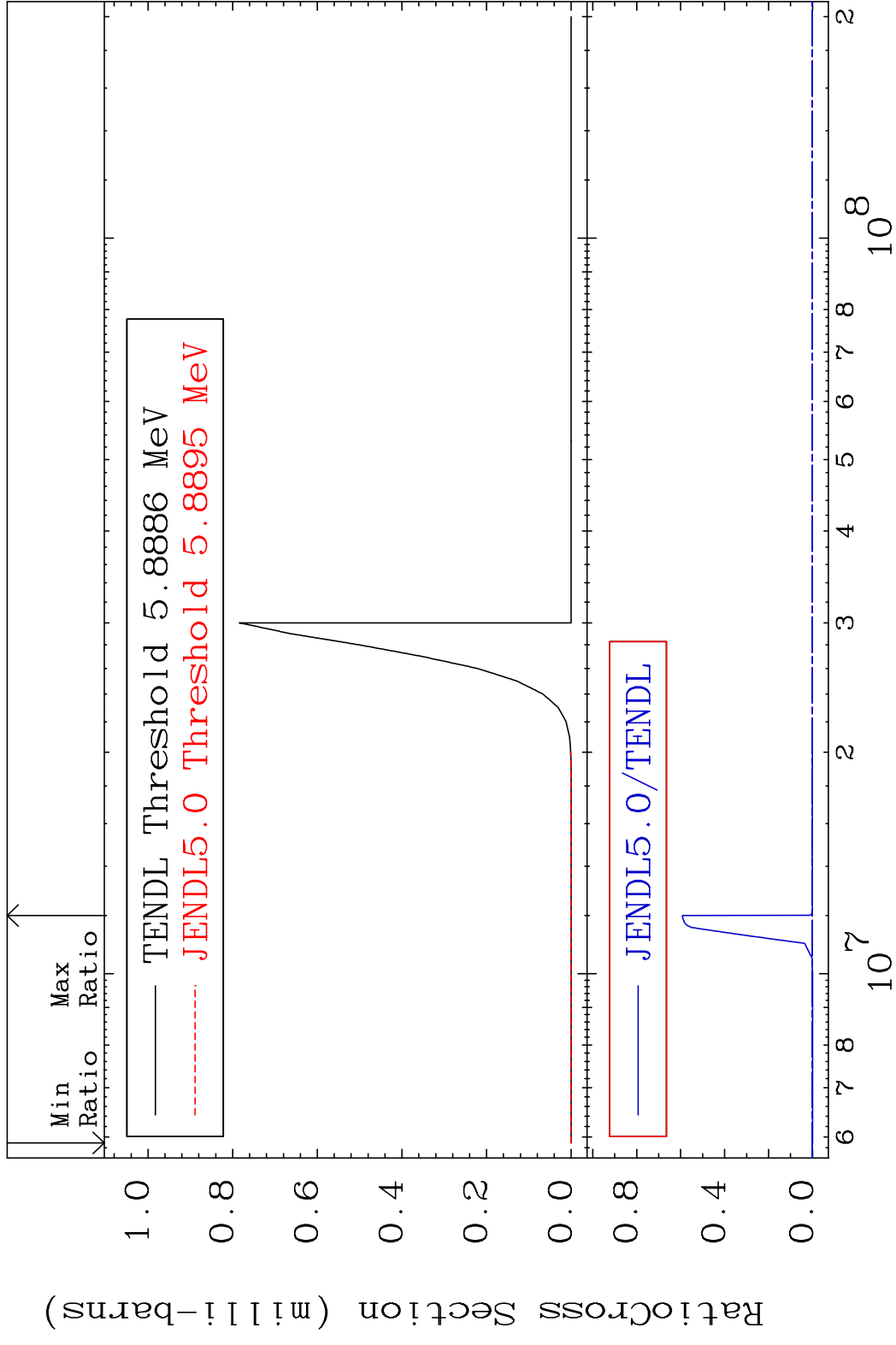
MAT 6240 (n,d) 62-Sm-149
 Cross Section -100.0 To 9999. %



MAT 6240 (n, t) 62-Sm-149
 Cross Section -100.0 To 9999. %



MAT 6240 (n, He-3) 62-Sm-149
 Cross Section -100.0 To 9999. %

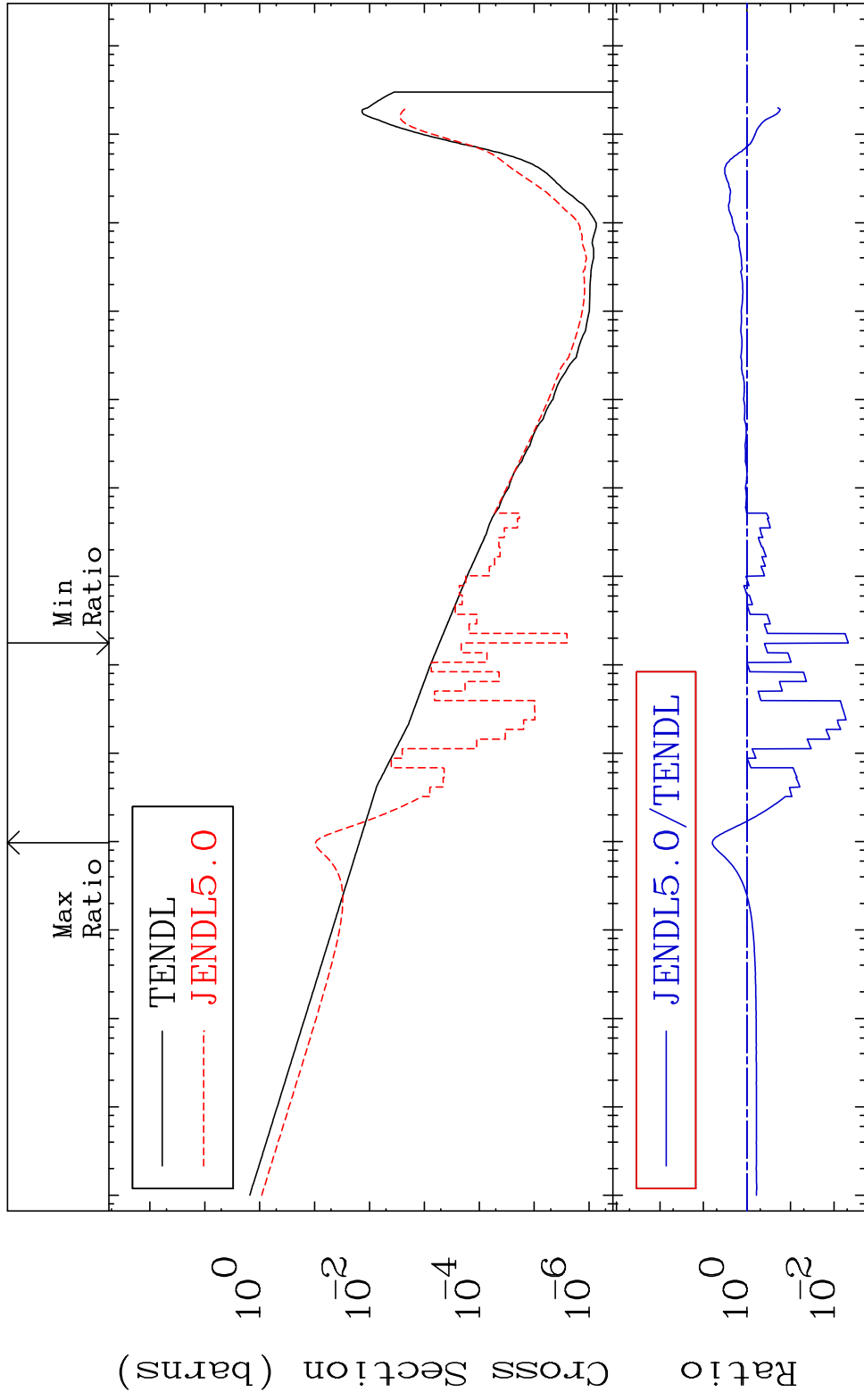


MAT 6240

(n, α)

62-Sm-149

Cross Section -99.53 To 524.9 %



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

37

Incident Energy (eV)

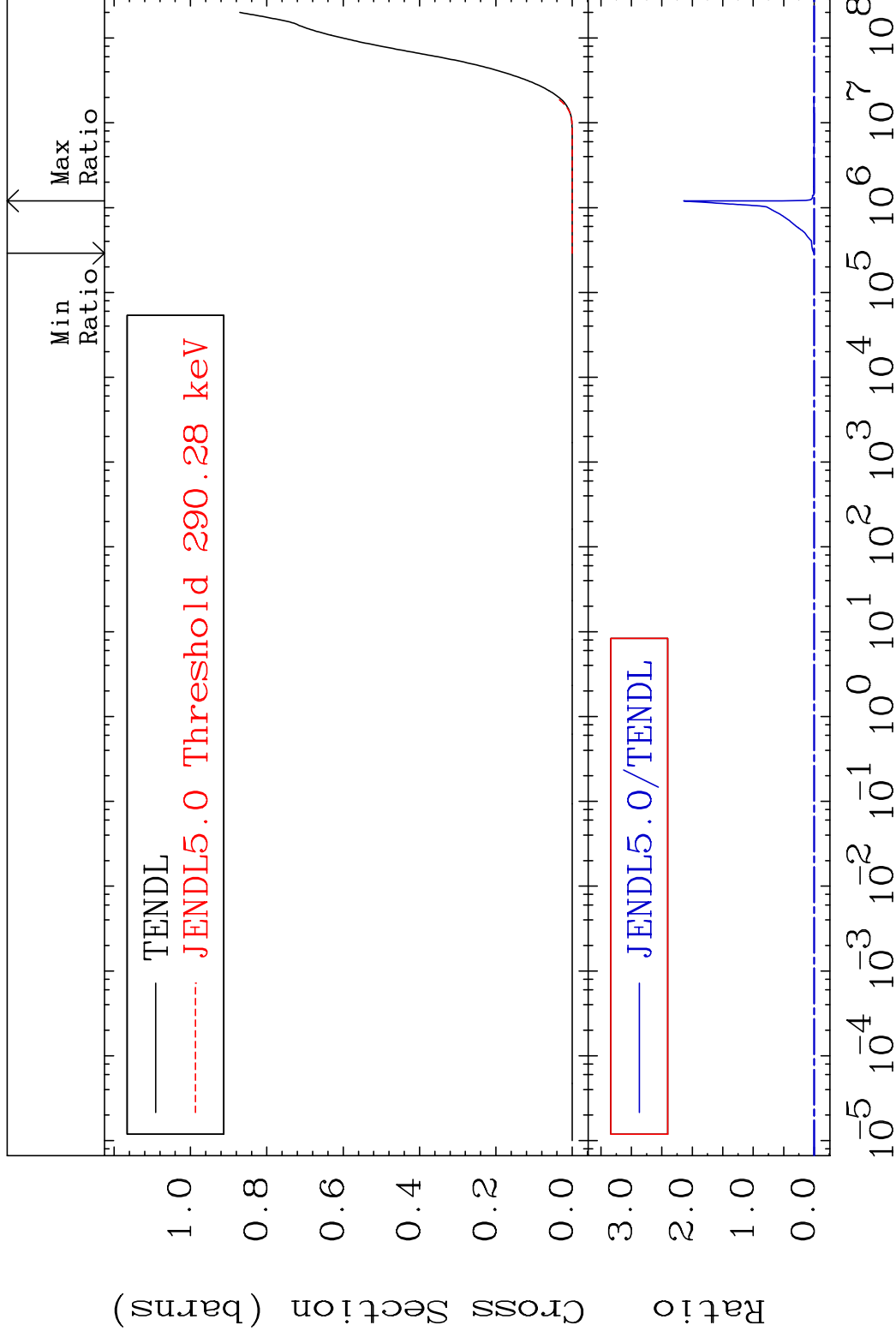
62-Sm-149

MAT 6240

Hydrogen Production

62-Sm-149

Cross Section -100.0 To 9999. %

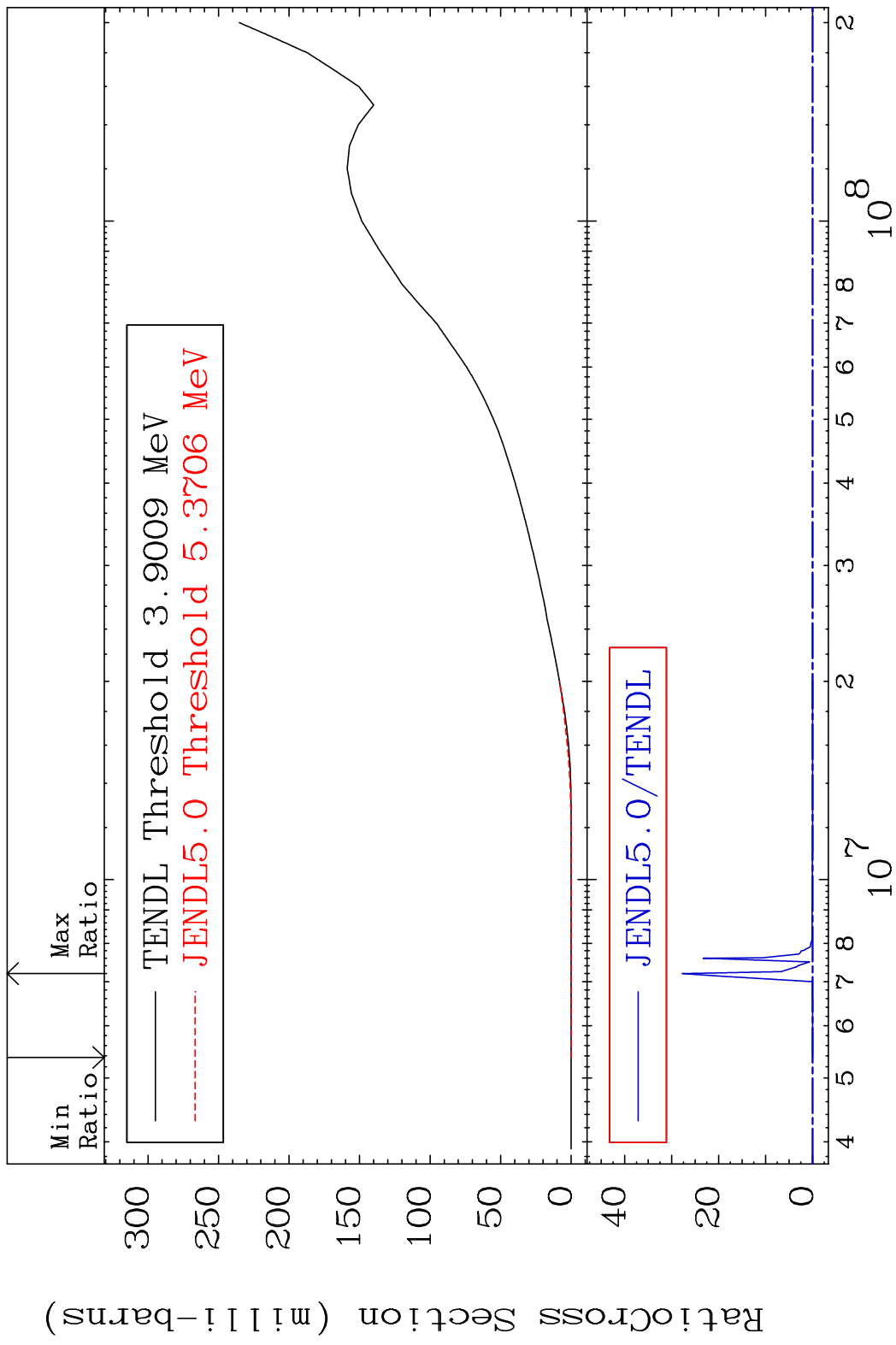


38

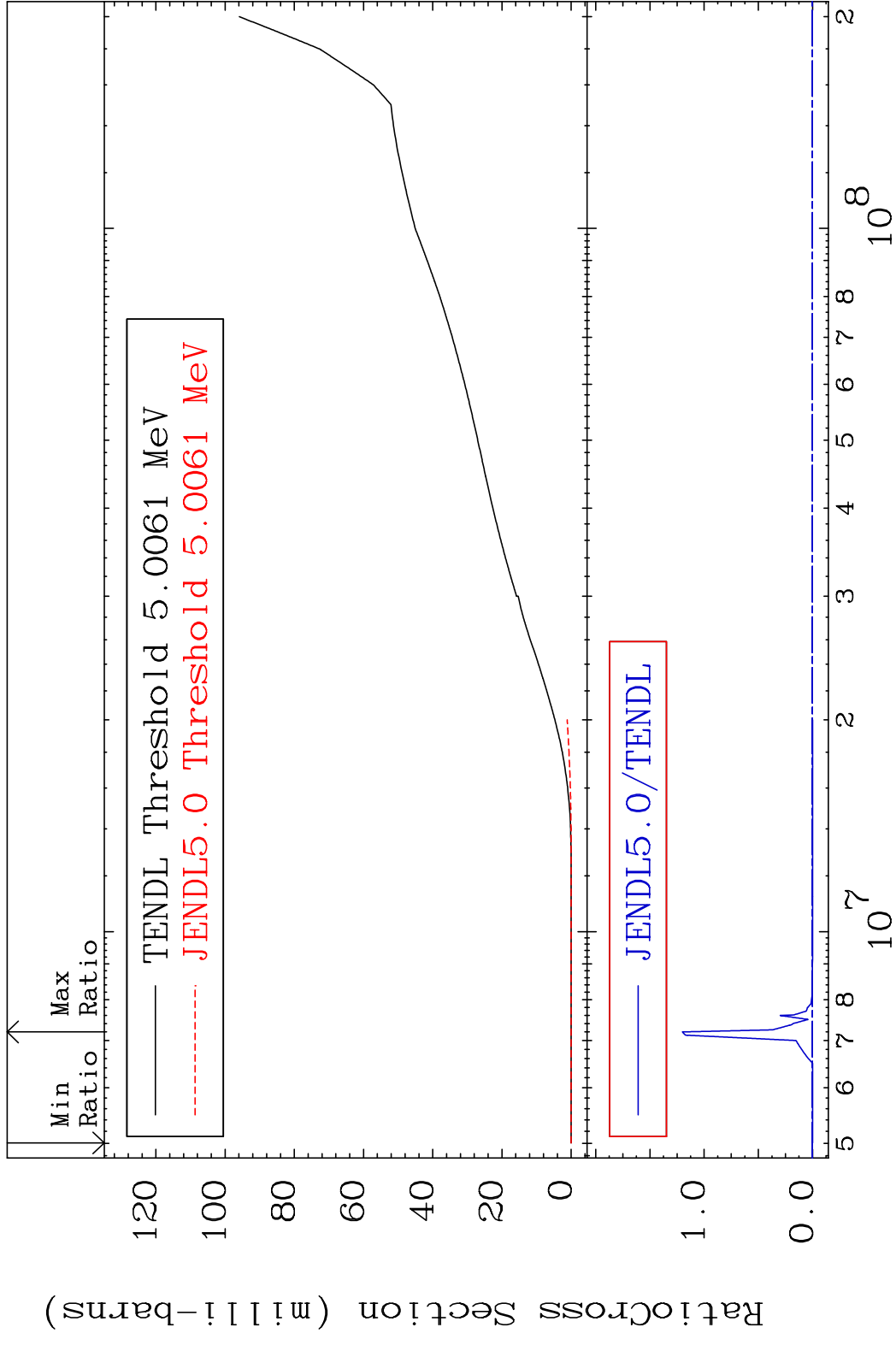
Incident Energy (eV)

62-Sm-149

MAT 6240 Deuterium Production 62-Sm-149
 Cross Section -100.0 To 9999. %



MAT 6240 Tritium Production 62-Sm-149
 Cross Section -100.0 To 9999. %



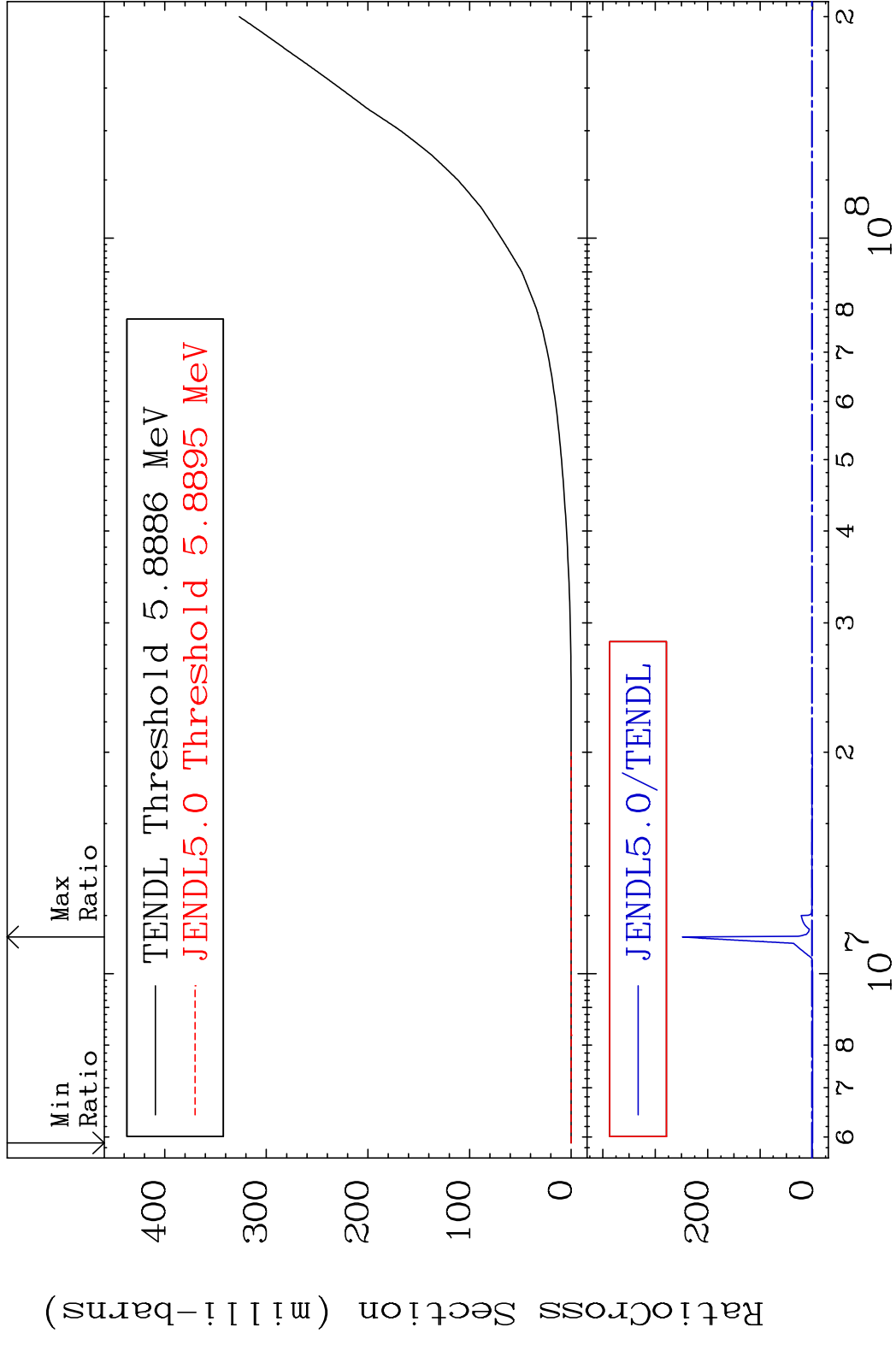
40 Incident Energy (eV) 62-Sm-149

MAT 6240

He-3 Production

62-Sm-149

Cross Section -100.0 To 9999. %

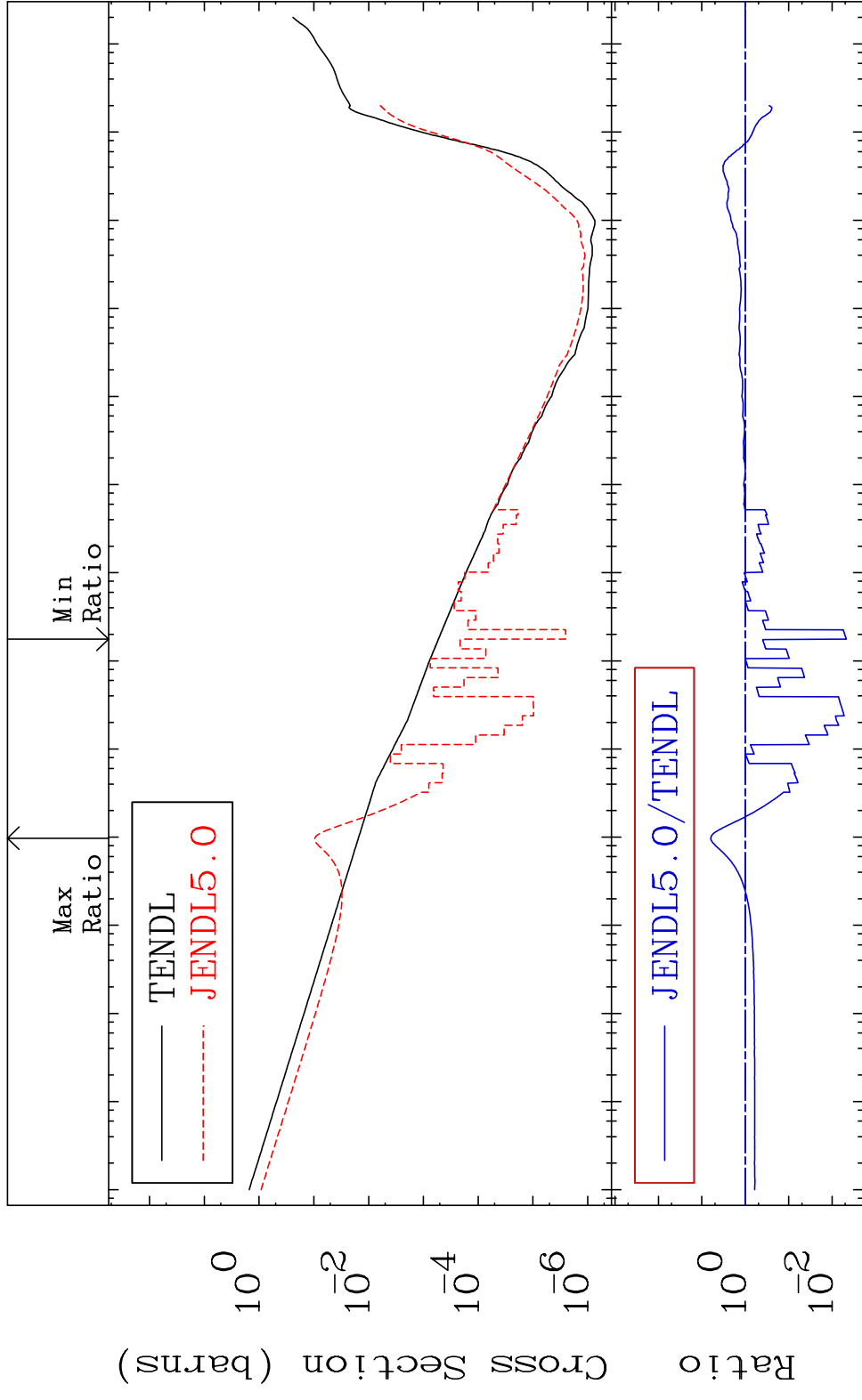


41

Incident Energy (eV)

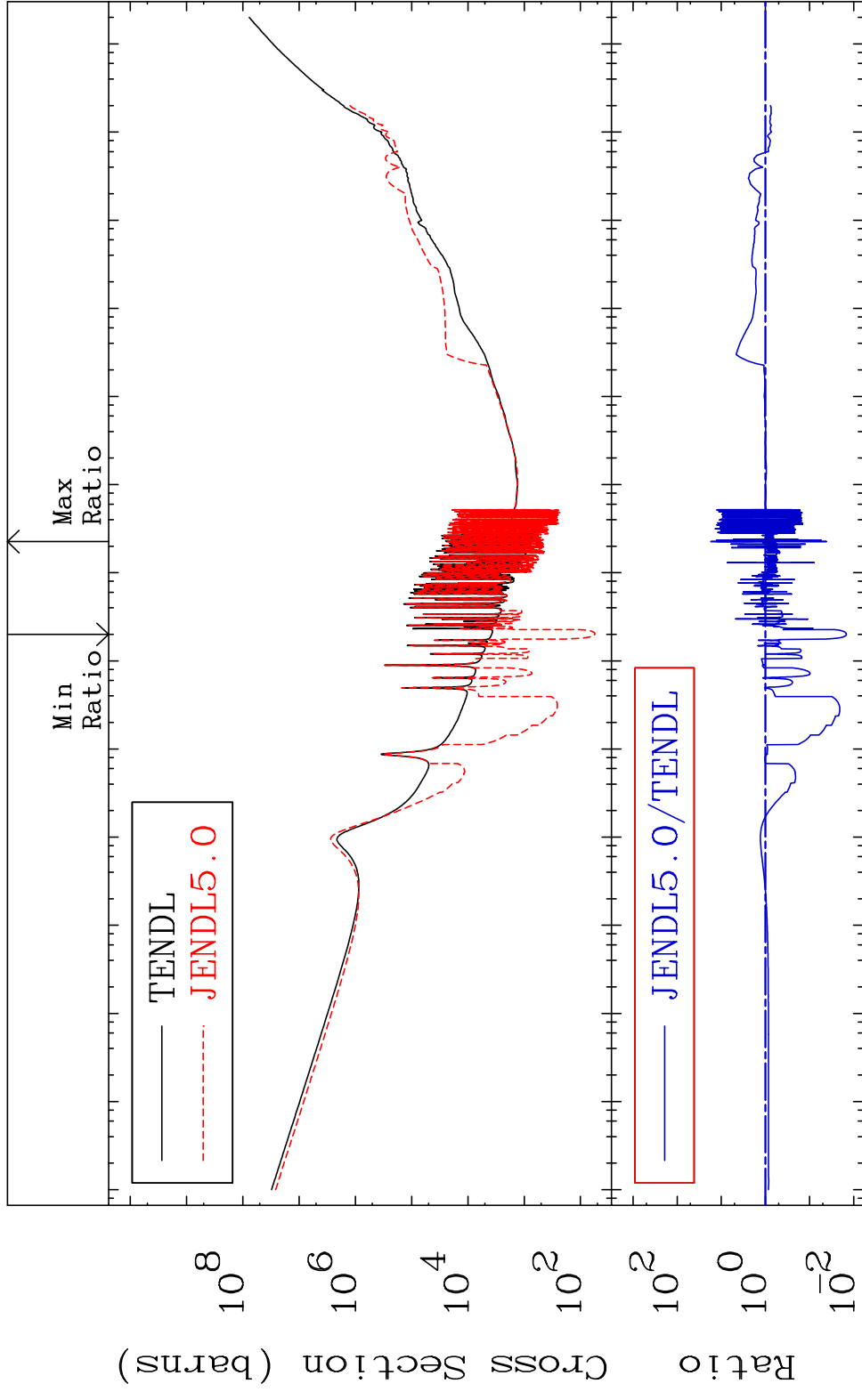
62-Sm-149

MAT 6240 He-4 Production 62-Sm-149
 Cross Section -99.53 To 524.9 %



Incident Energy (eV) 62-Sm-149

MAT 6240 Kerma total (eV-barns) 62-Sm-149
 Cross Section -98.53 To 1635. %

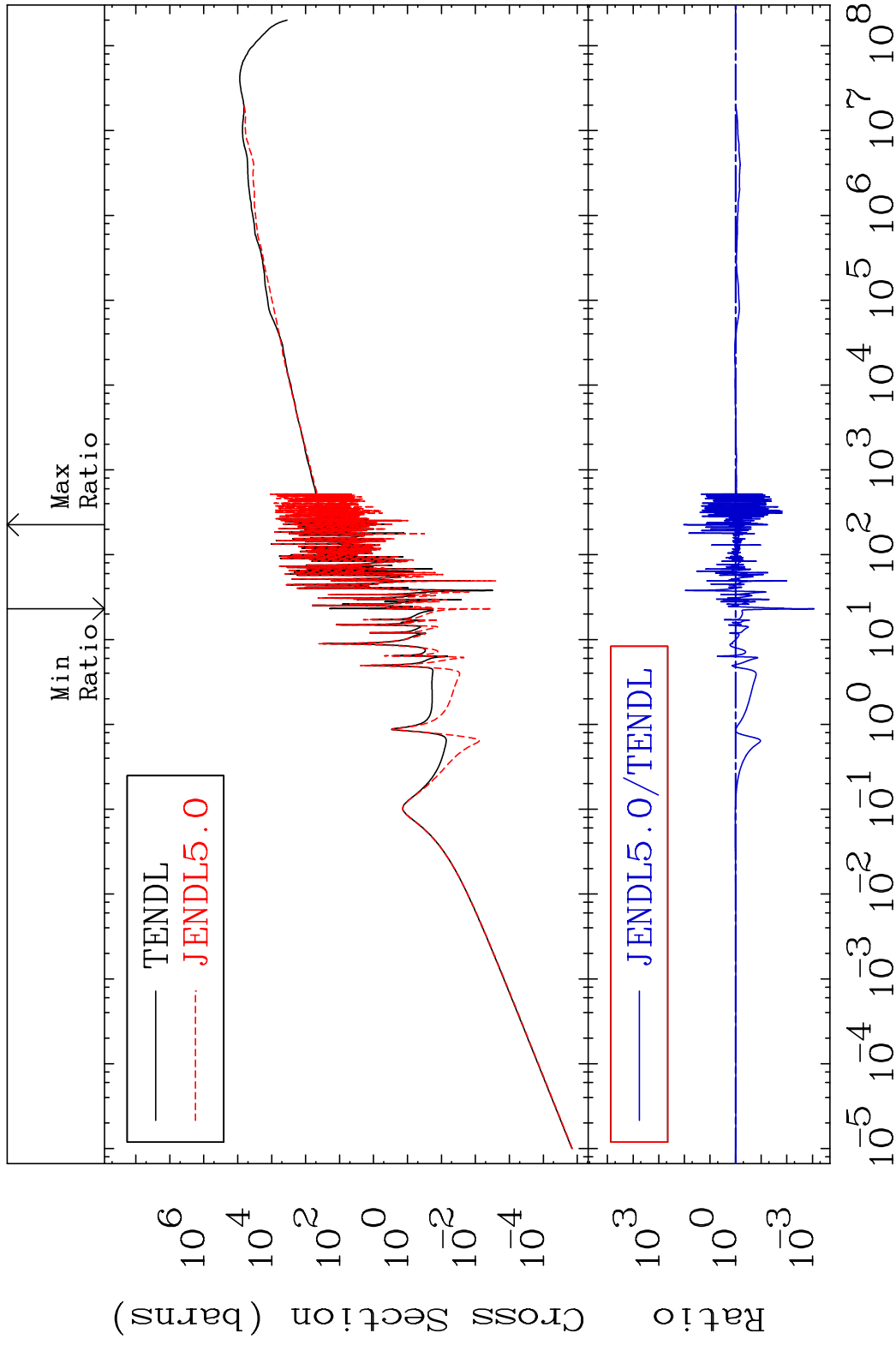


MAT 6240

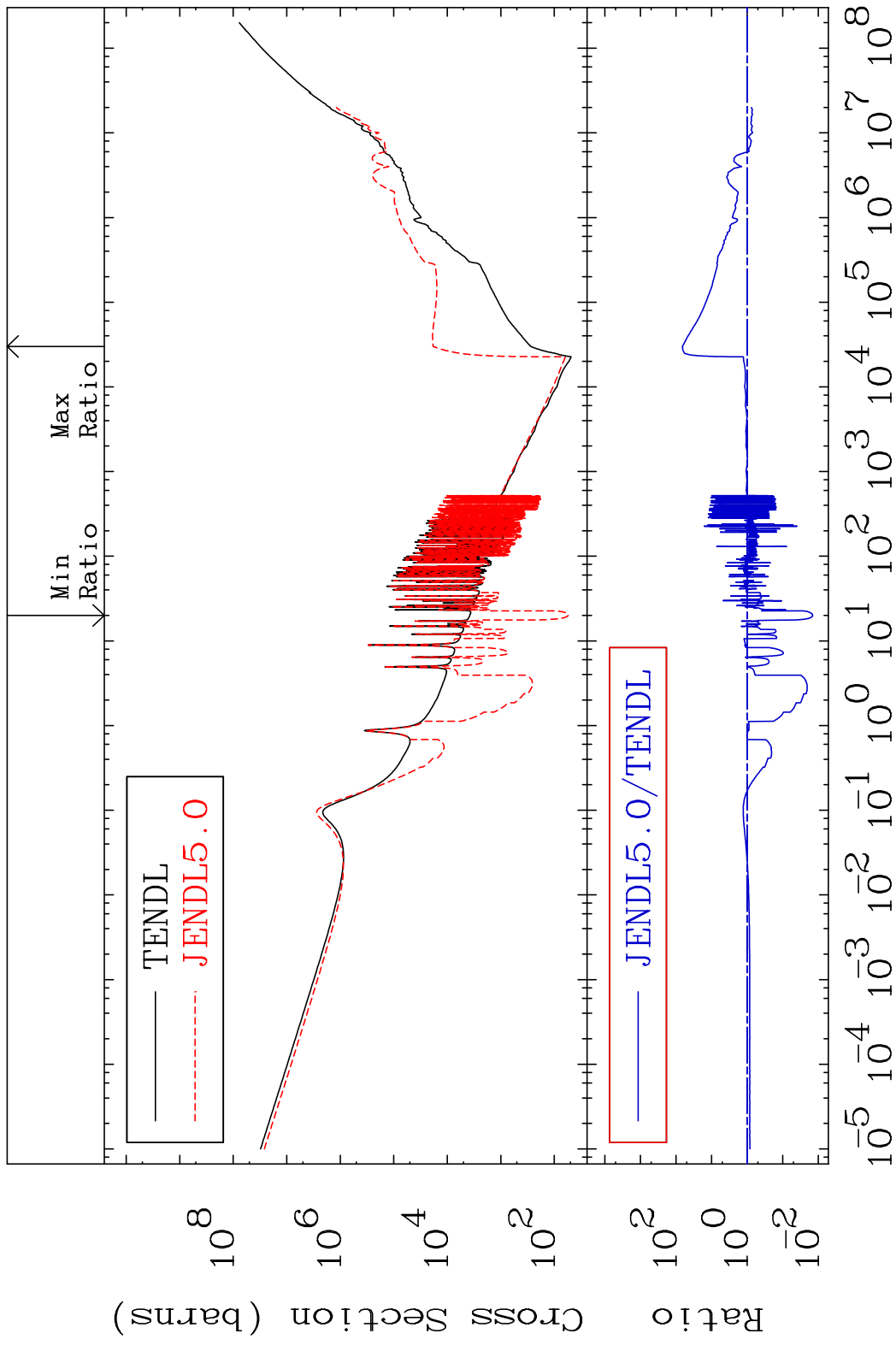
Kerma elastic

62-Sm-149

Cross Section -99.91 To 9999. %

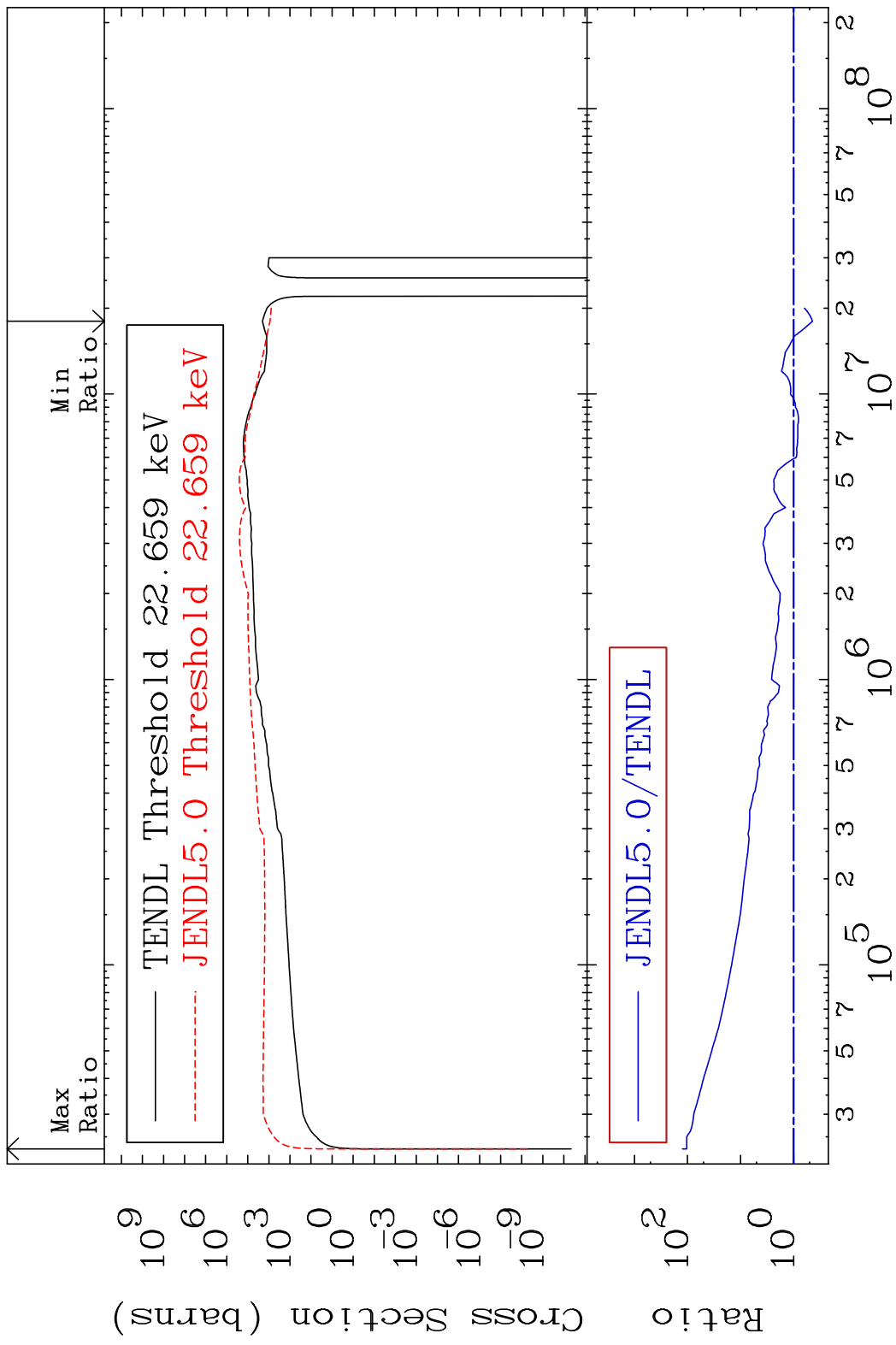


MAT 6240 Kerma non-elastic (all but mt2) 62-Sm-149
 Cross Section -98.54 To 6567. %

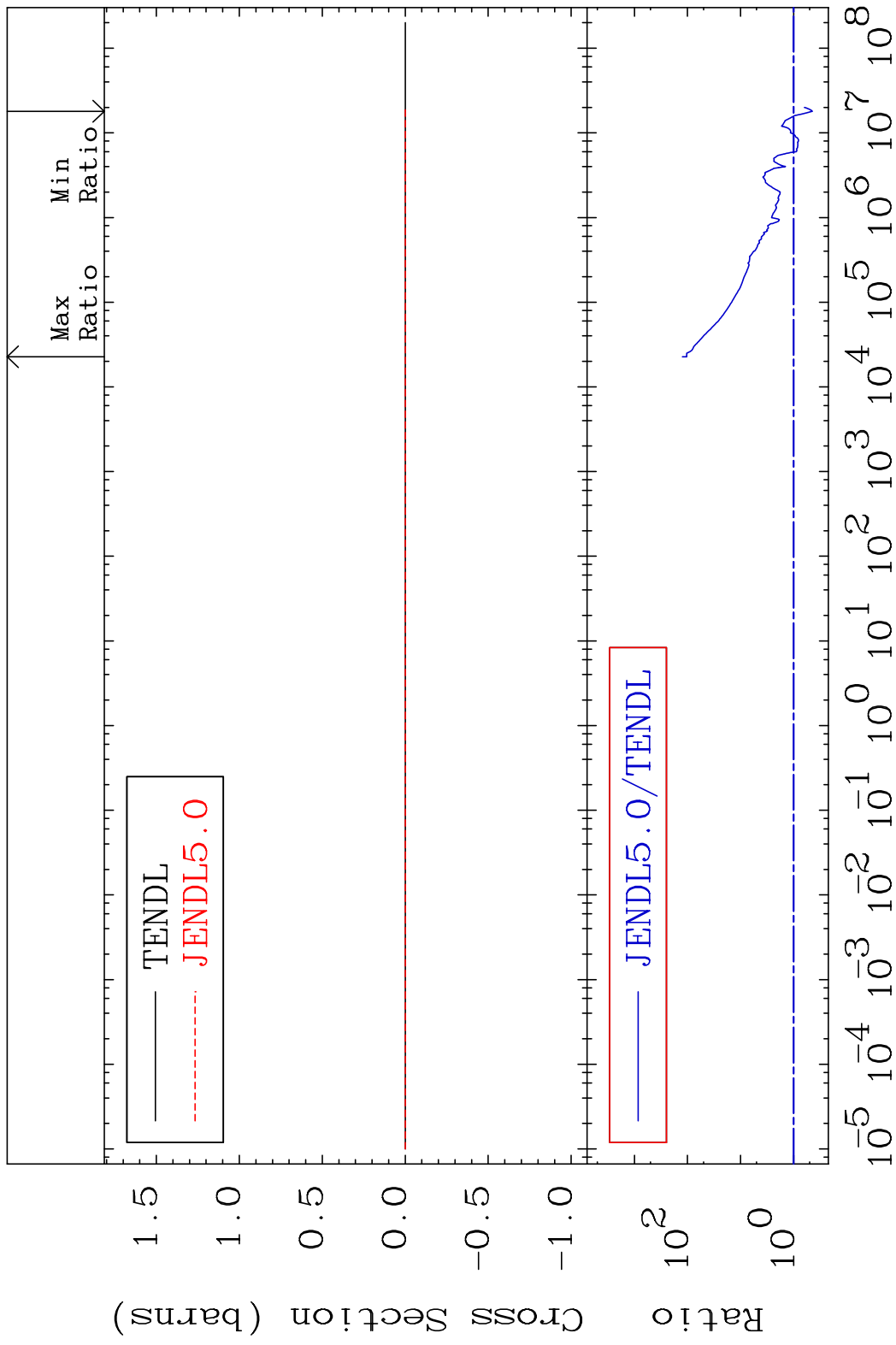


45 Incident Energy (eV) 62-Sm-149

MAT 6240 Kerma inelastic (mt51-91) 62-Sm-149
 Cross Section -55.79 To 9999. %

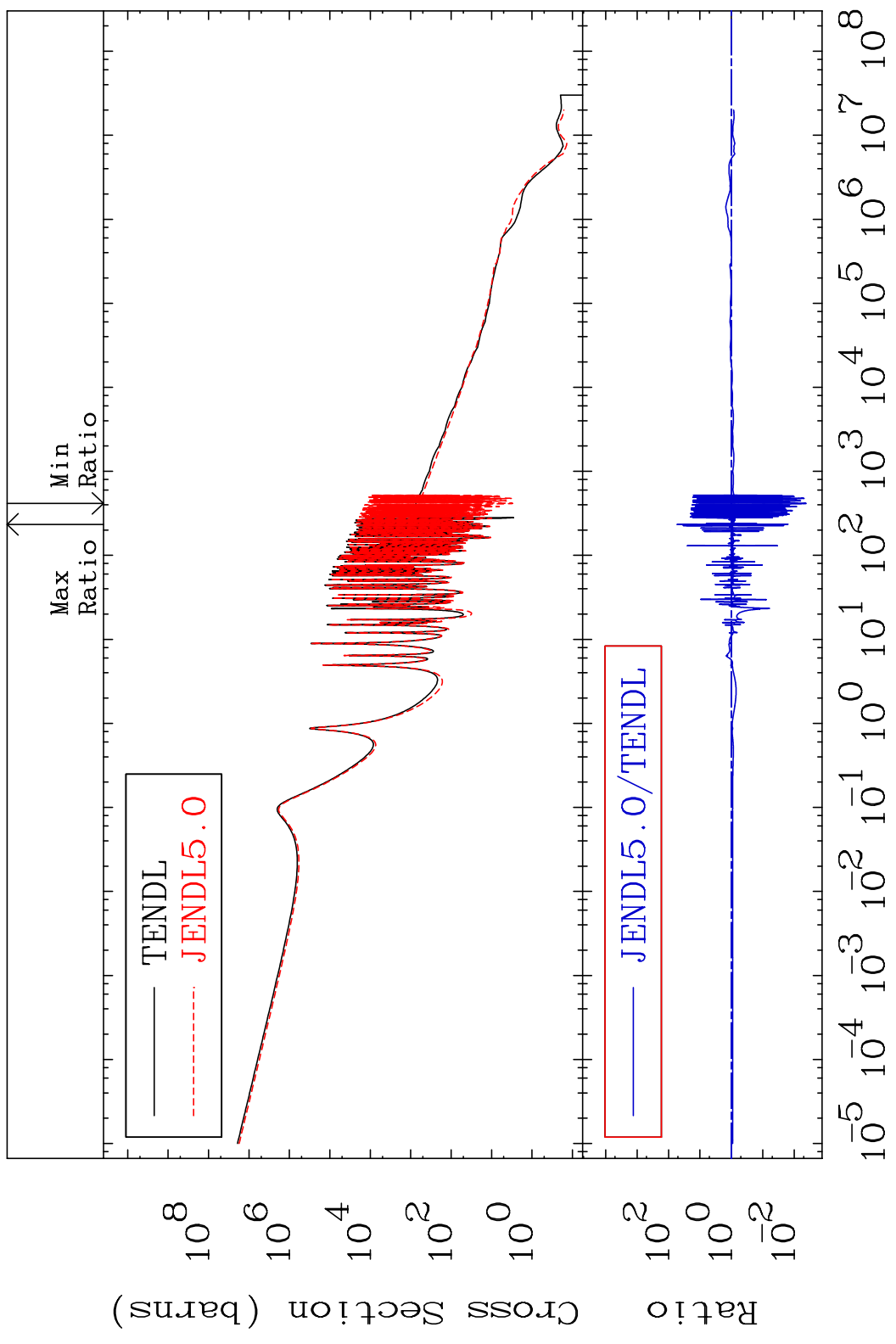


MAT 6240 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-149
 Cross Section -55.79 To 9999. %



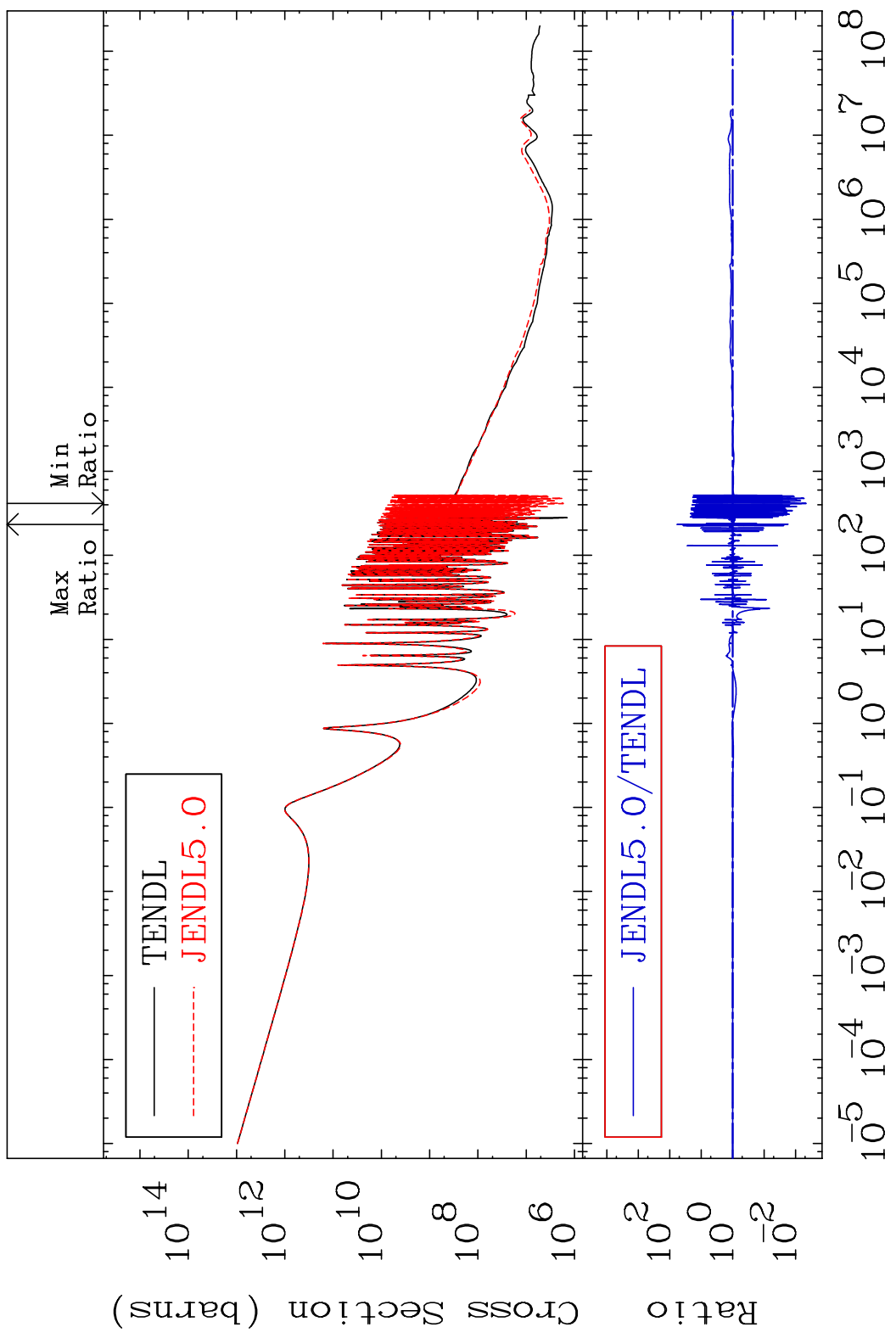
MAT 6240

Kerma capture (mt102) 62-Sm-149
Cross Section -99.59 To 5200. %



MAT 6240

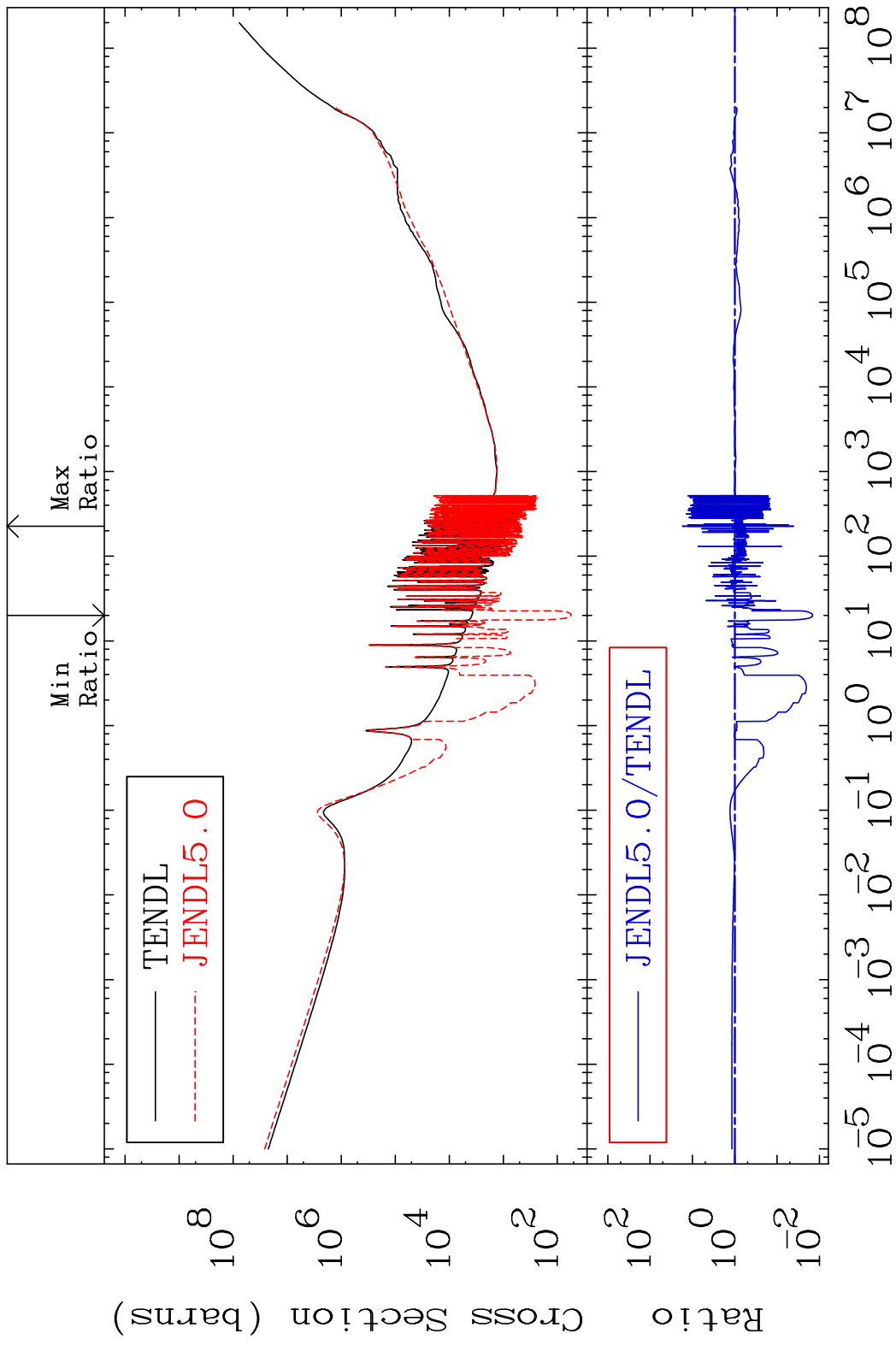
Total photon (eV-barns) 62-Sm-149
Cross Section -99.54 To 5739. %



49

Incident Energy (eV) 62-Sm-149

MAT 6240 Total kinematic kerma (high limit) 62-Sm-149
 Cross Section -98.54 To 1629. %



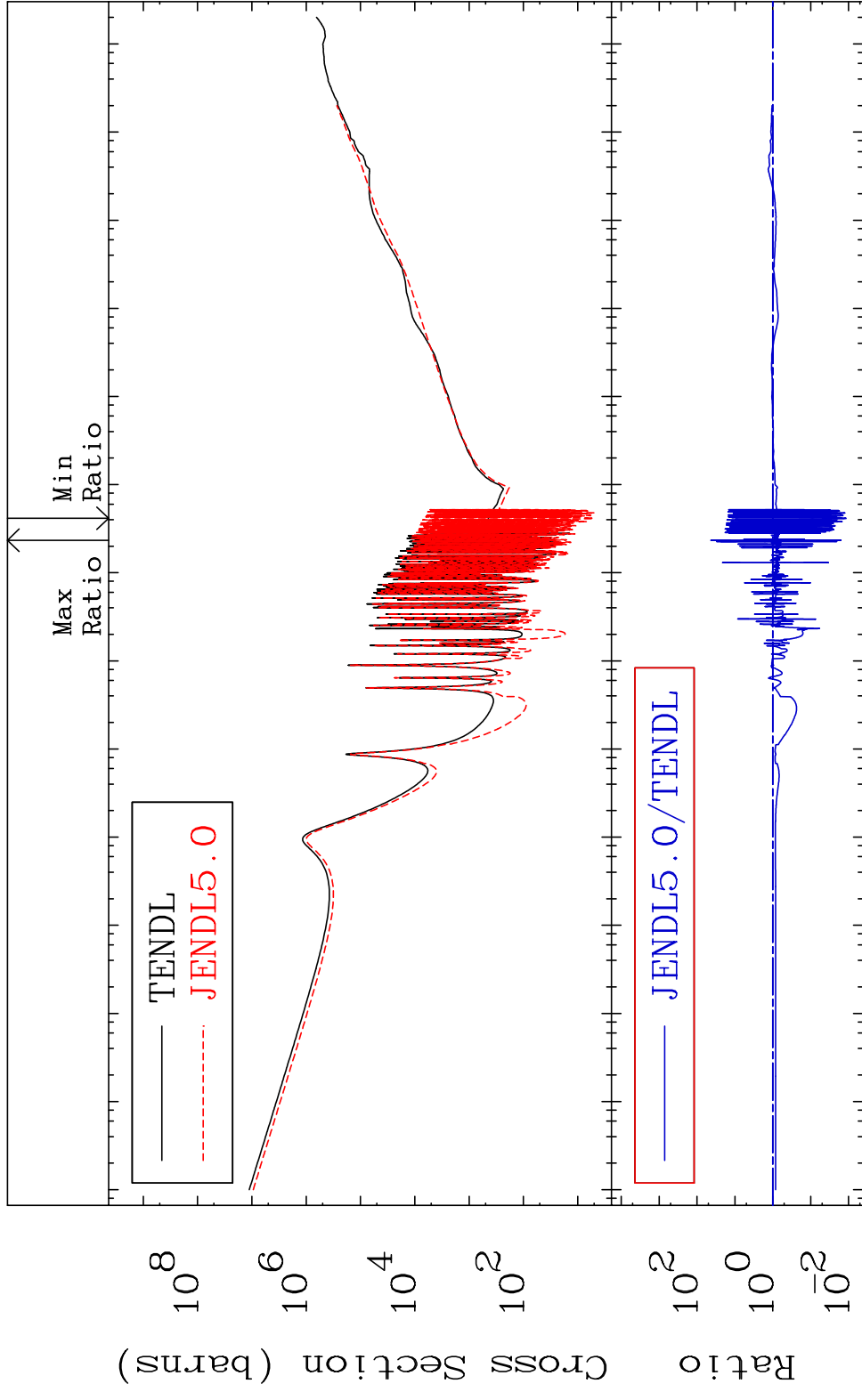
50 Incident Energy (eV) 62-Sm-149

MAT 6240

Dpa total (eV-barns)

62-Sm-149

Cross Section -98.86 To 4249. %



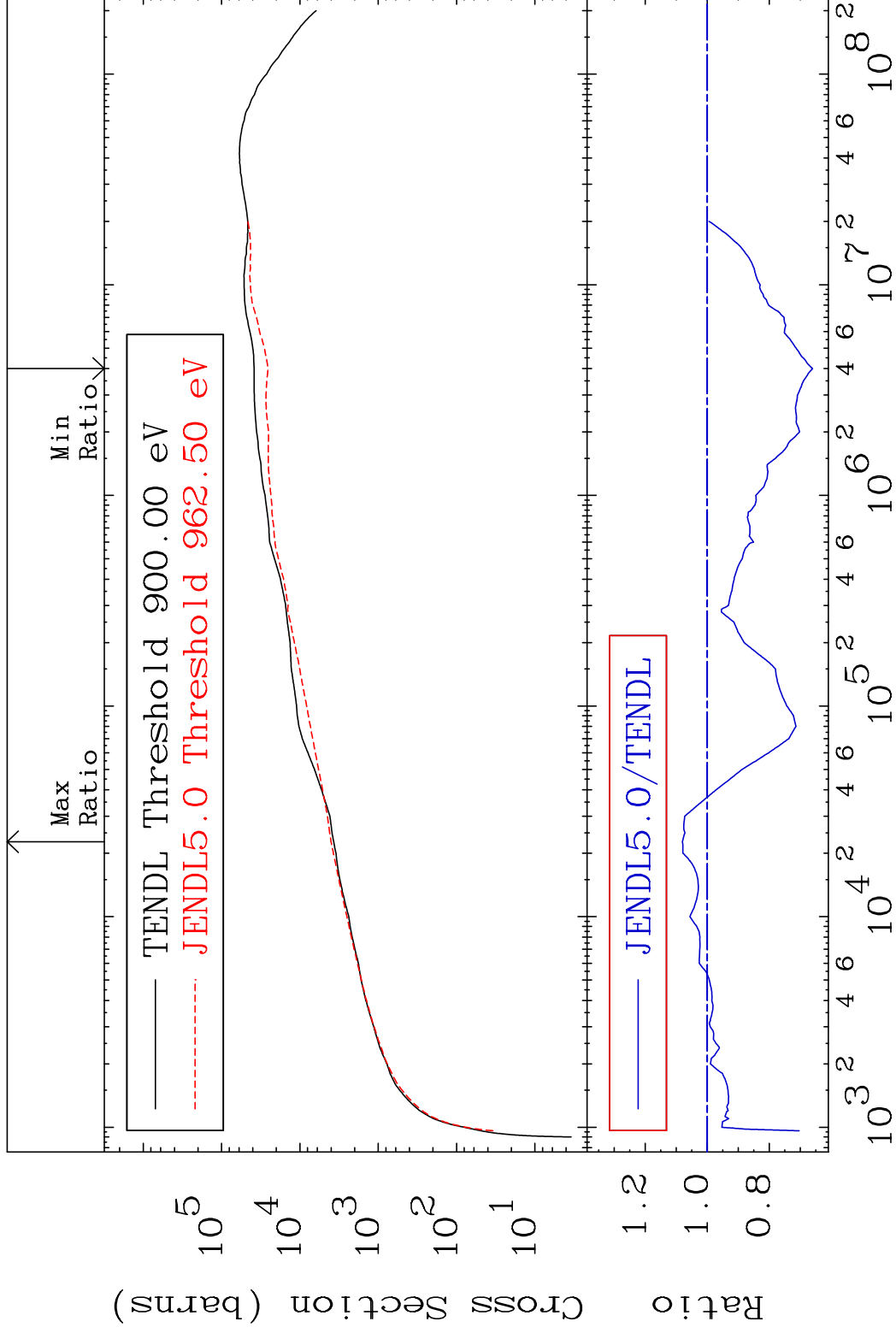
MAT 6240

Dpa elastic (mt2)

62-Sm-149

Cross Section

-33.94 To 8.033 %

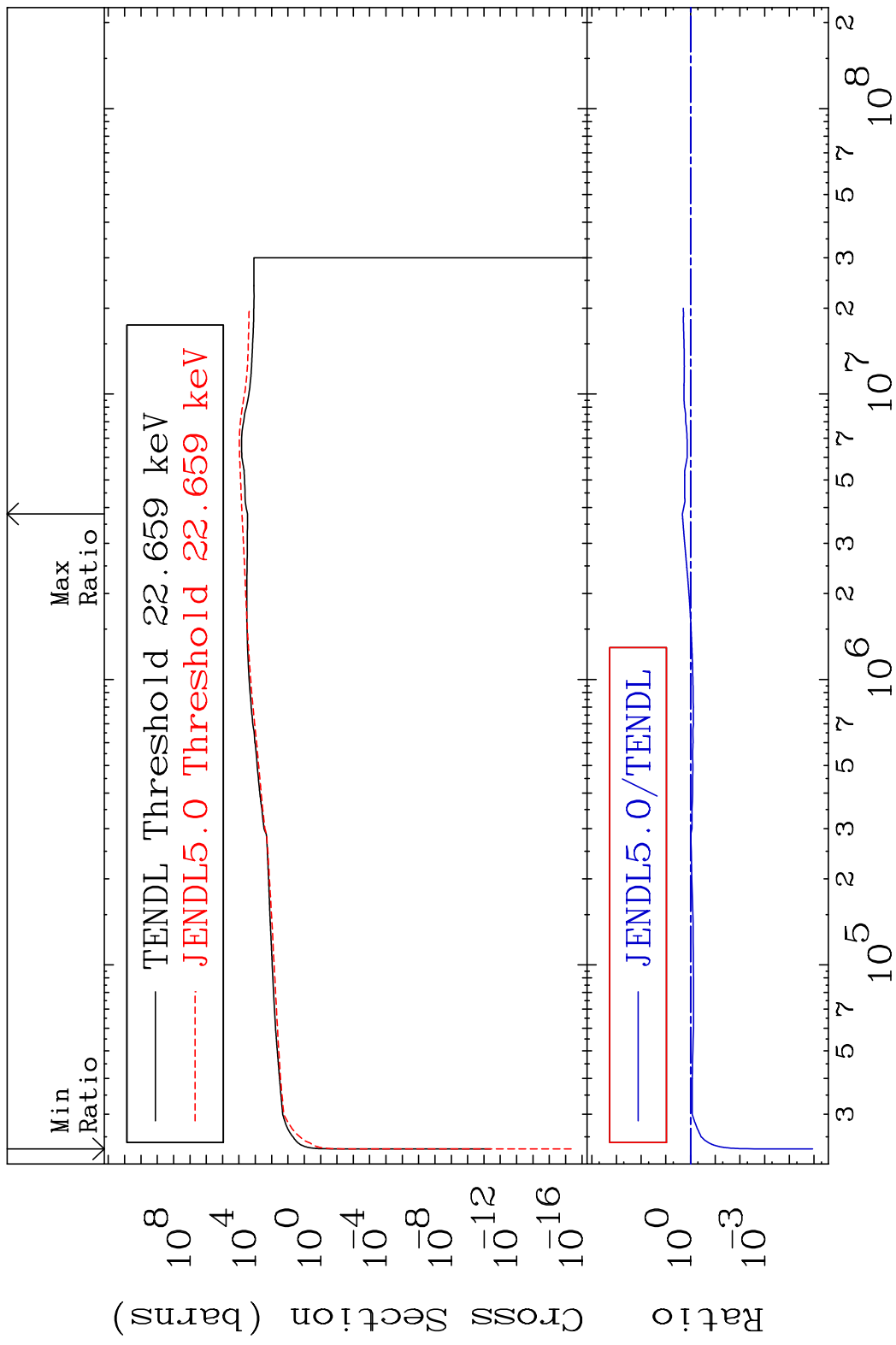


52

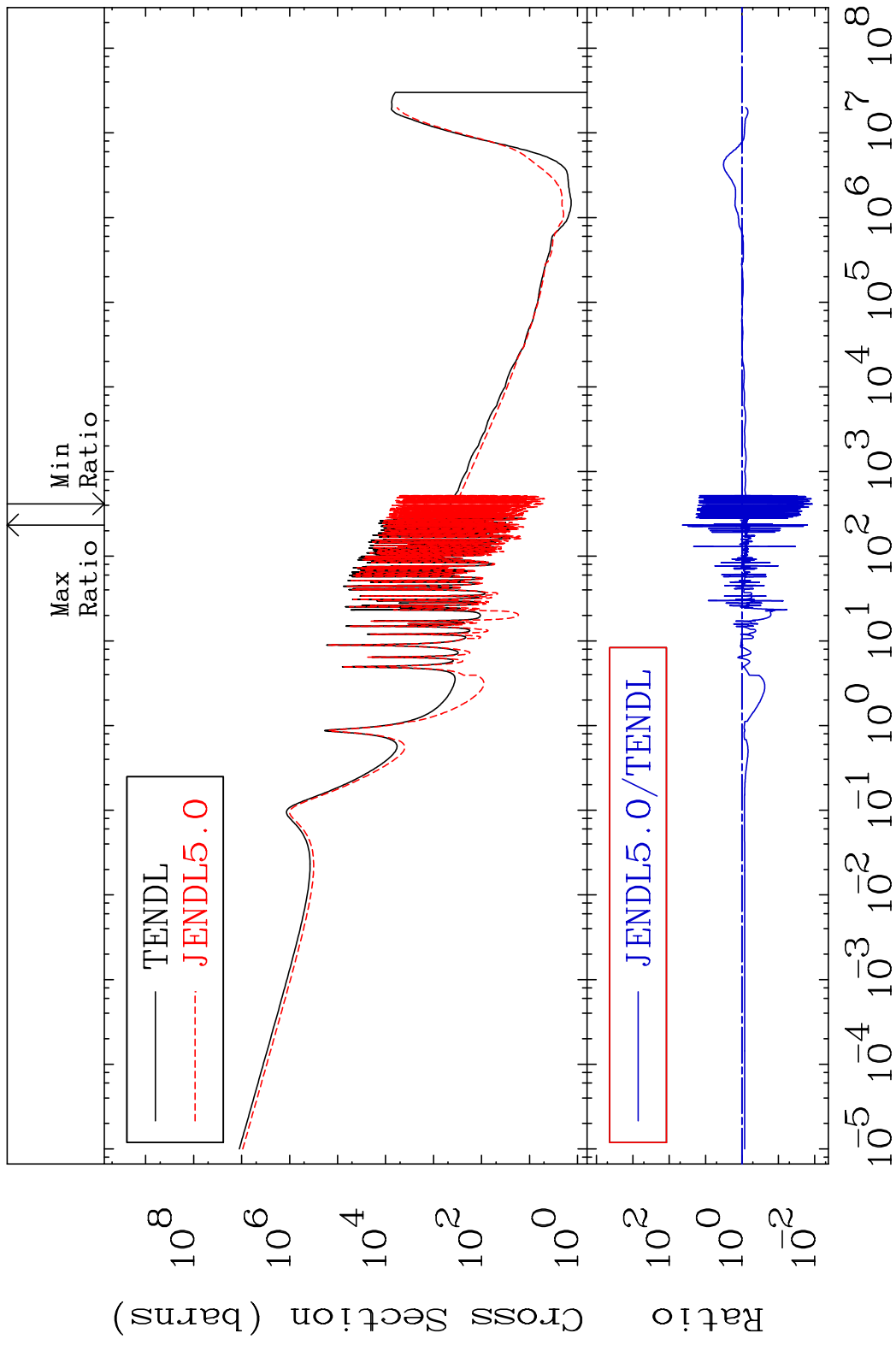
Incident Energy (eV)

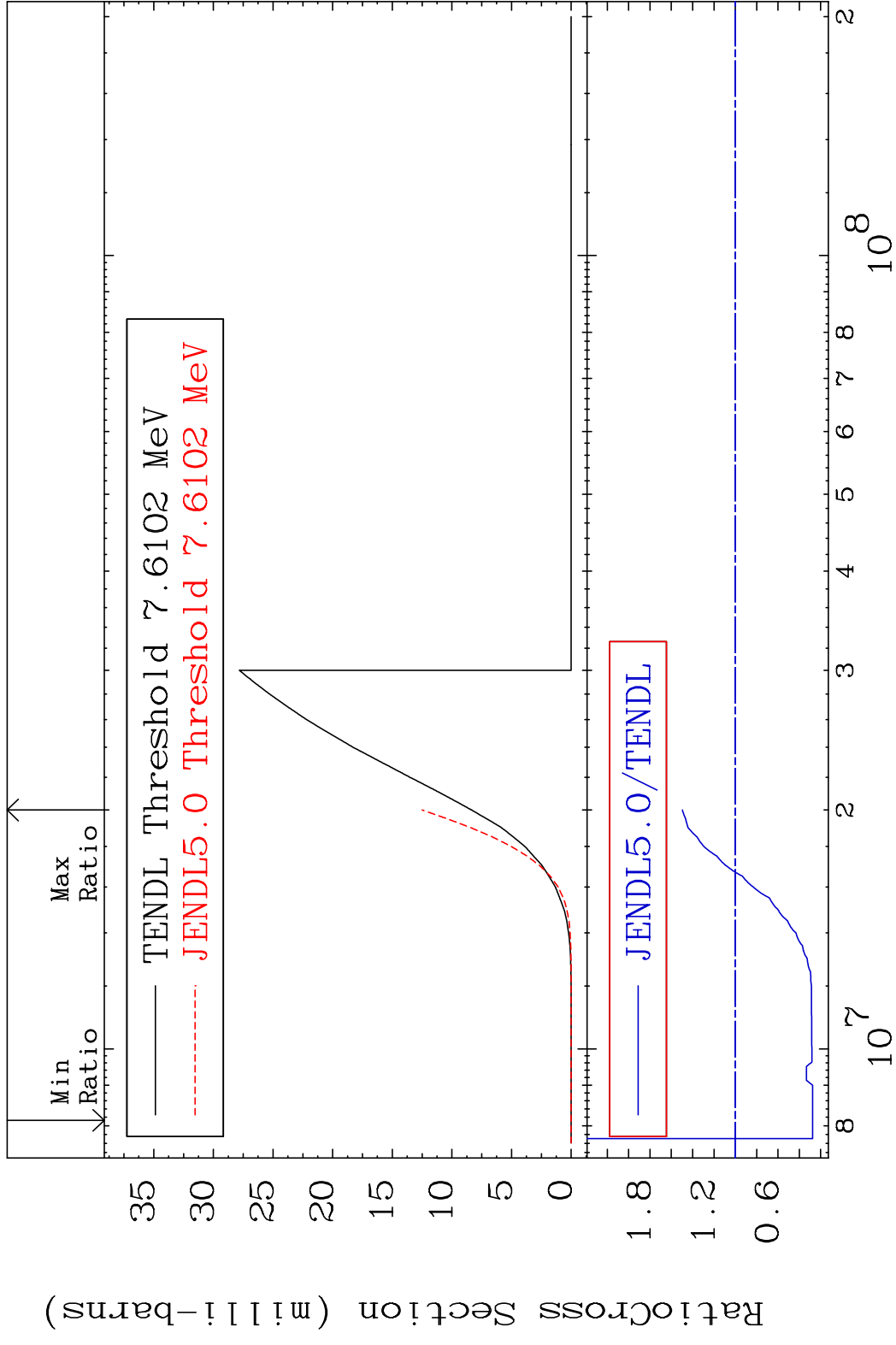
62-Sm-149

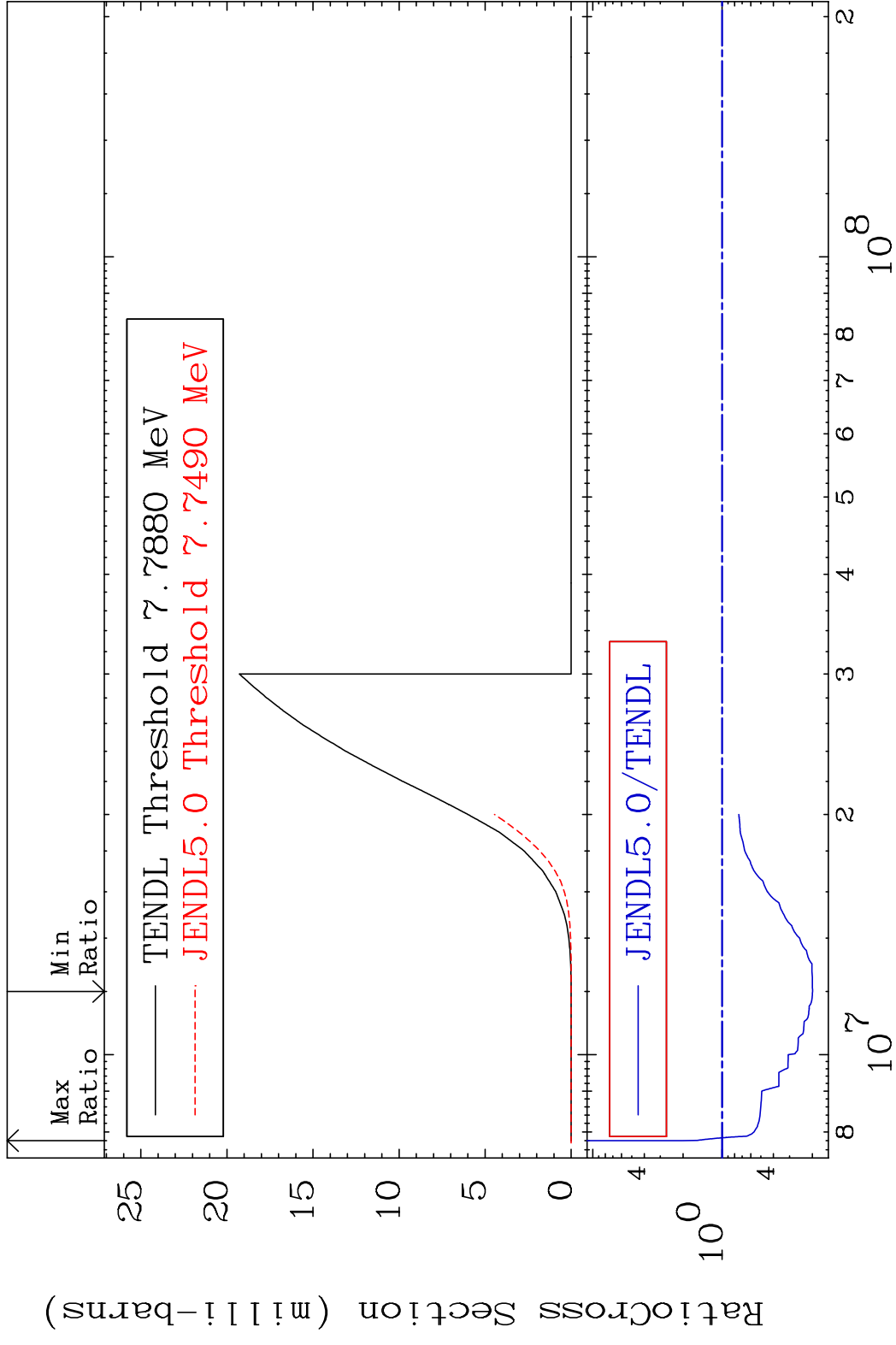
MAT 6240 Dpa inelastic (mt51-91) 62-Sm-149
 Cross Section -100.0 To 114.8 %



MAT 6240 Dpa disappearance (mt102 -120) 62-Sm-149
 Cross Section -98.86 To 4249. %







MAT 6240 (n,d):61-Pm-148g 62-Sm-149
 Radionuclide Production Cross Section Ratio 9999. %

