

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

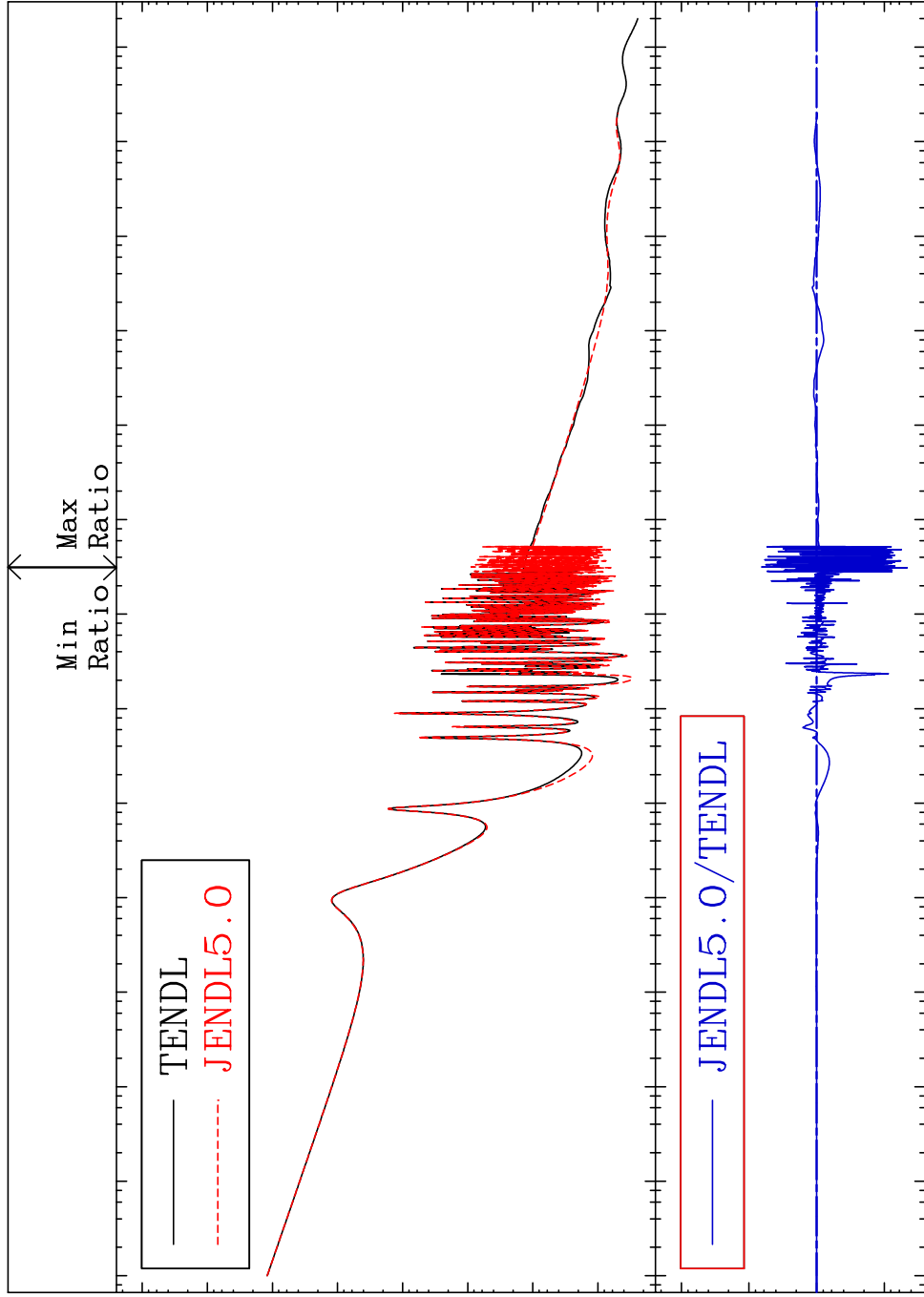
MAT 6240

Total

62-Sm-149

Cross Section

-95.42 To 545.9 %



1

Incident Energy (eV)

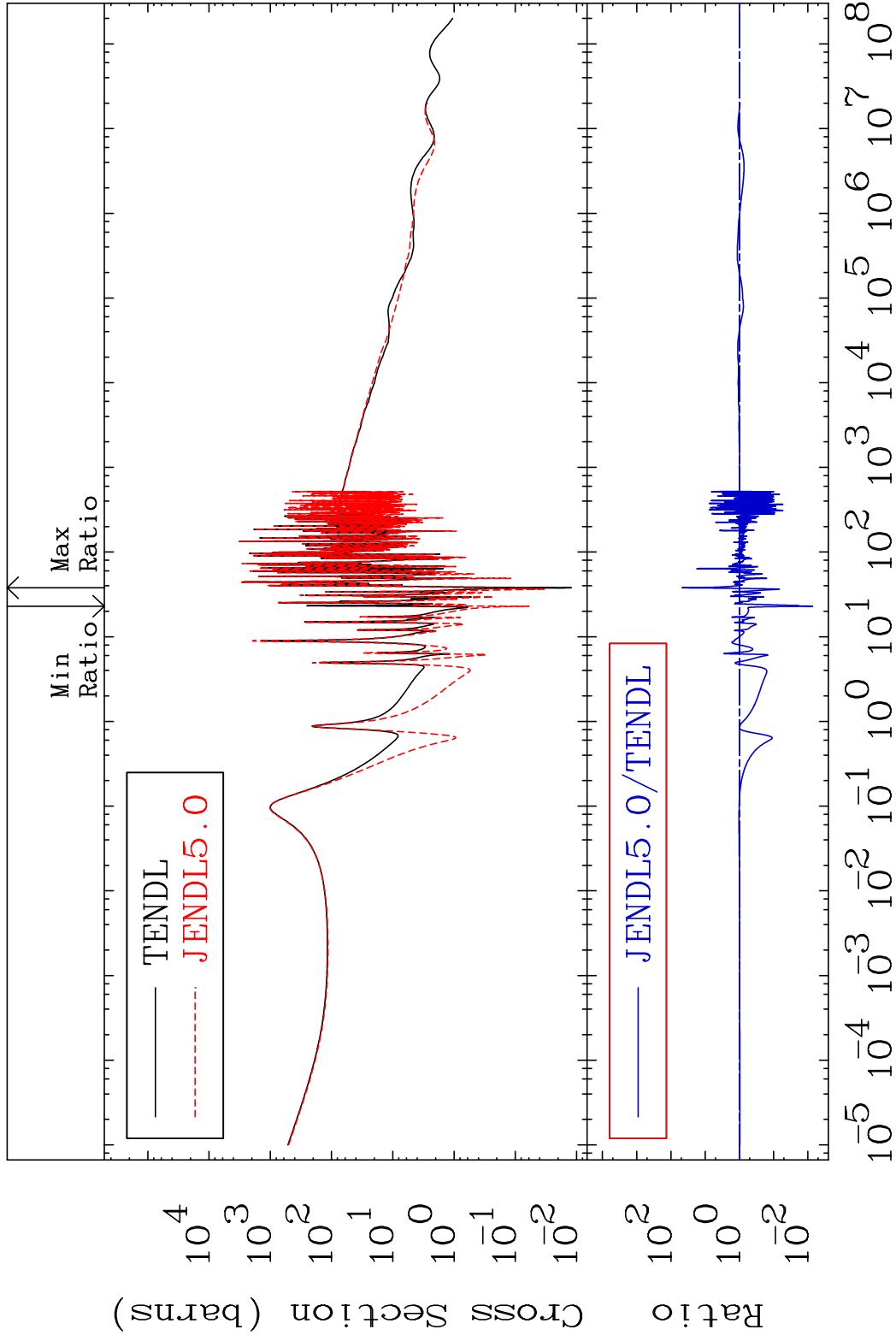
62-Sm-149

MAT 6240

Elastic

62-Sm-149

Cross Section -99.27 To 4538. %

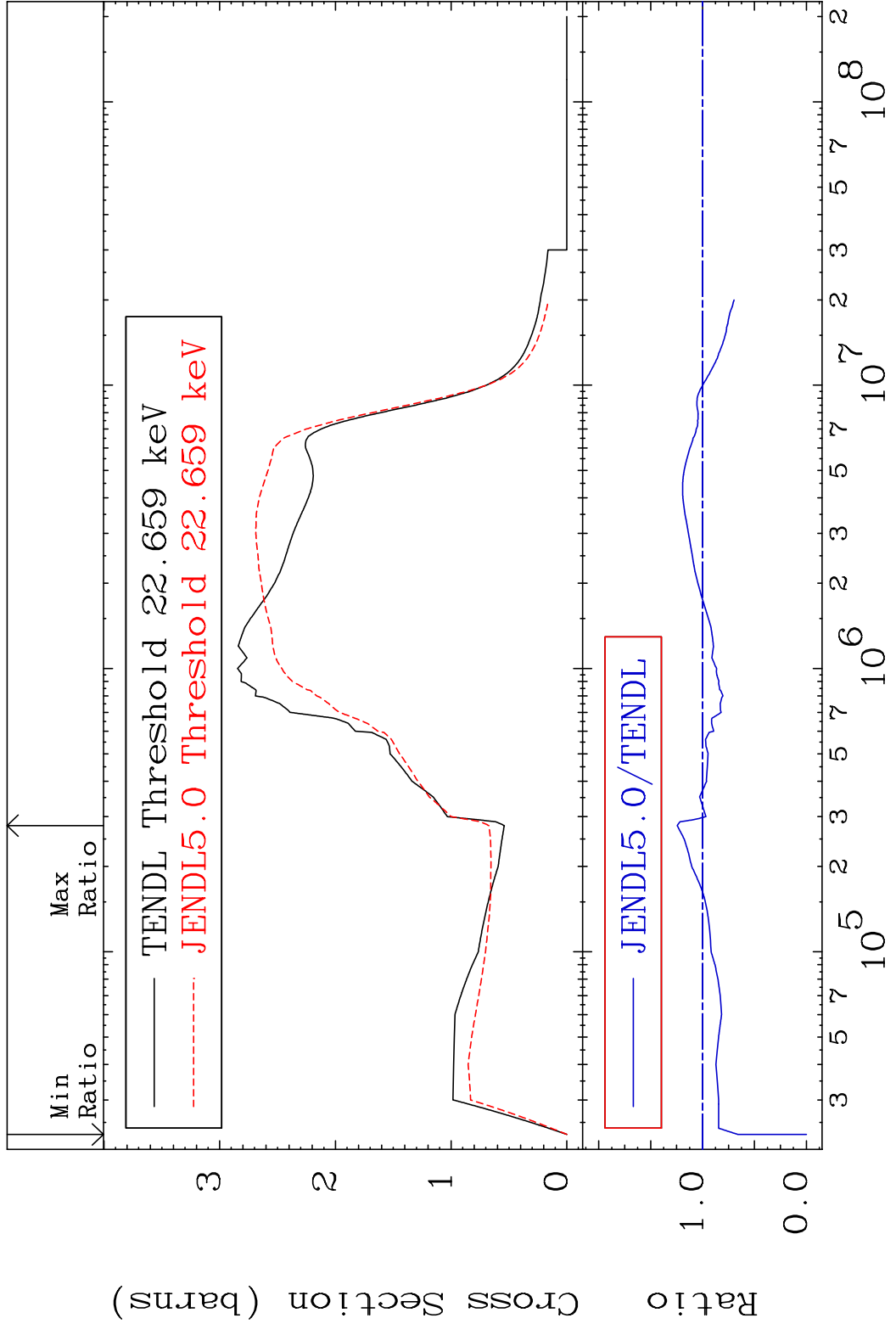


2

Incident Energy (eV)

62-Sm-149

MAT 6240 Inelastic 62-Sm-149
 Cross Section -100.0 To 24.45 %



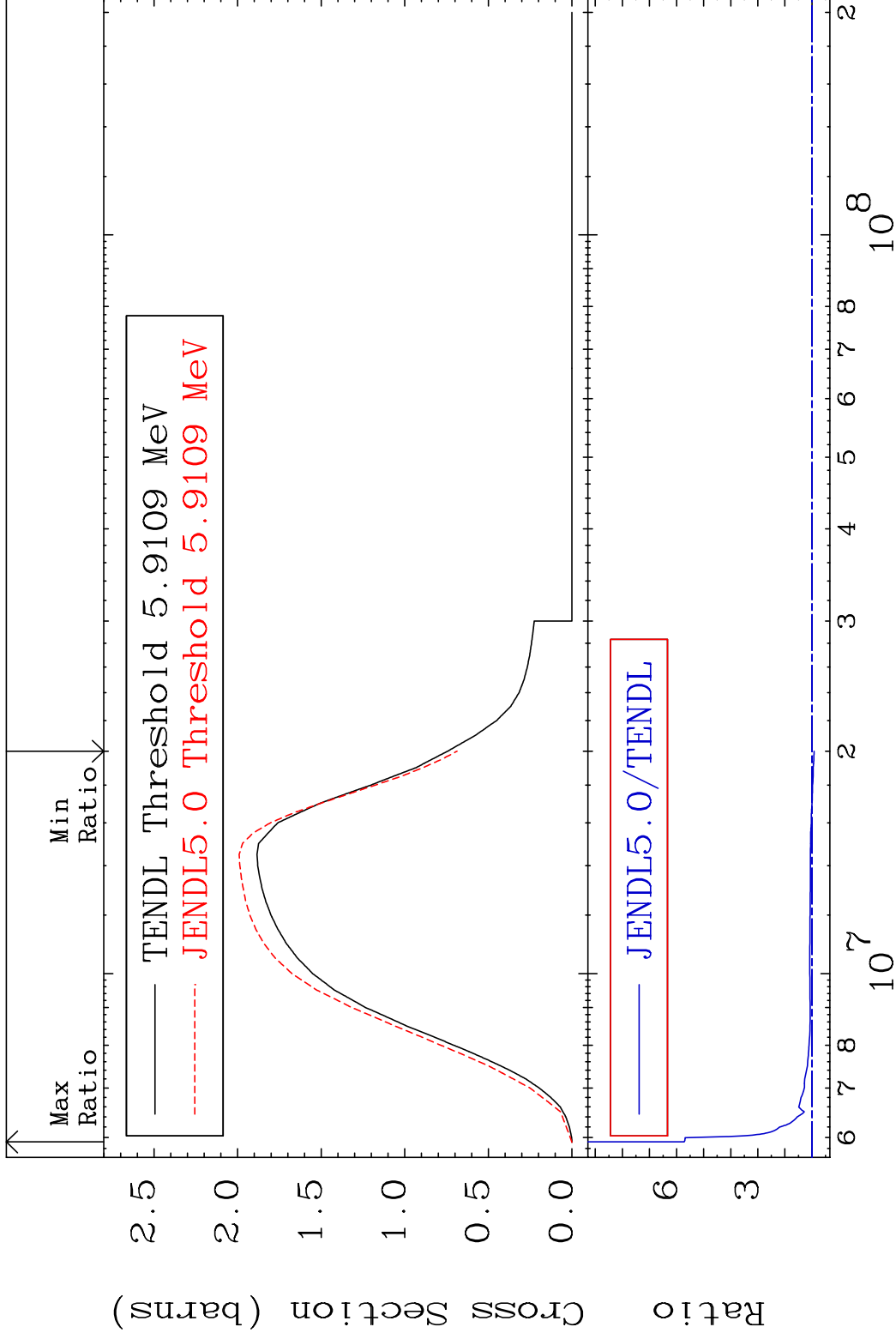
3 3 3 5 7 2 3 5 7 10⁶ 10⁷ 10⁸ 2 62-Sm-149

MAT 6240

(n,2n)

62-Sm-149

Cross Section -7.534 To 474.6 %

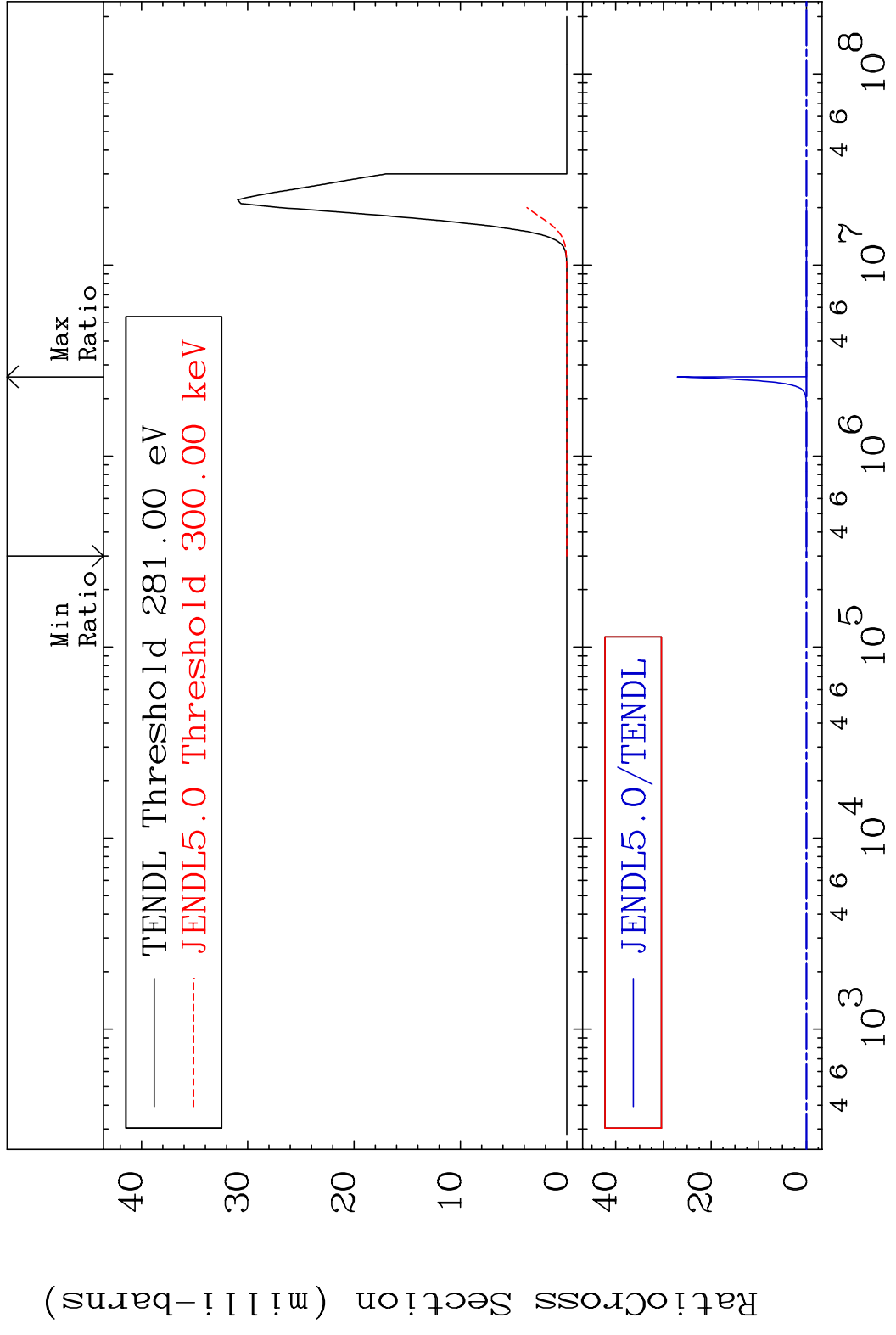


62-Sm-149

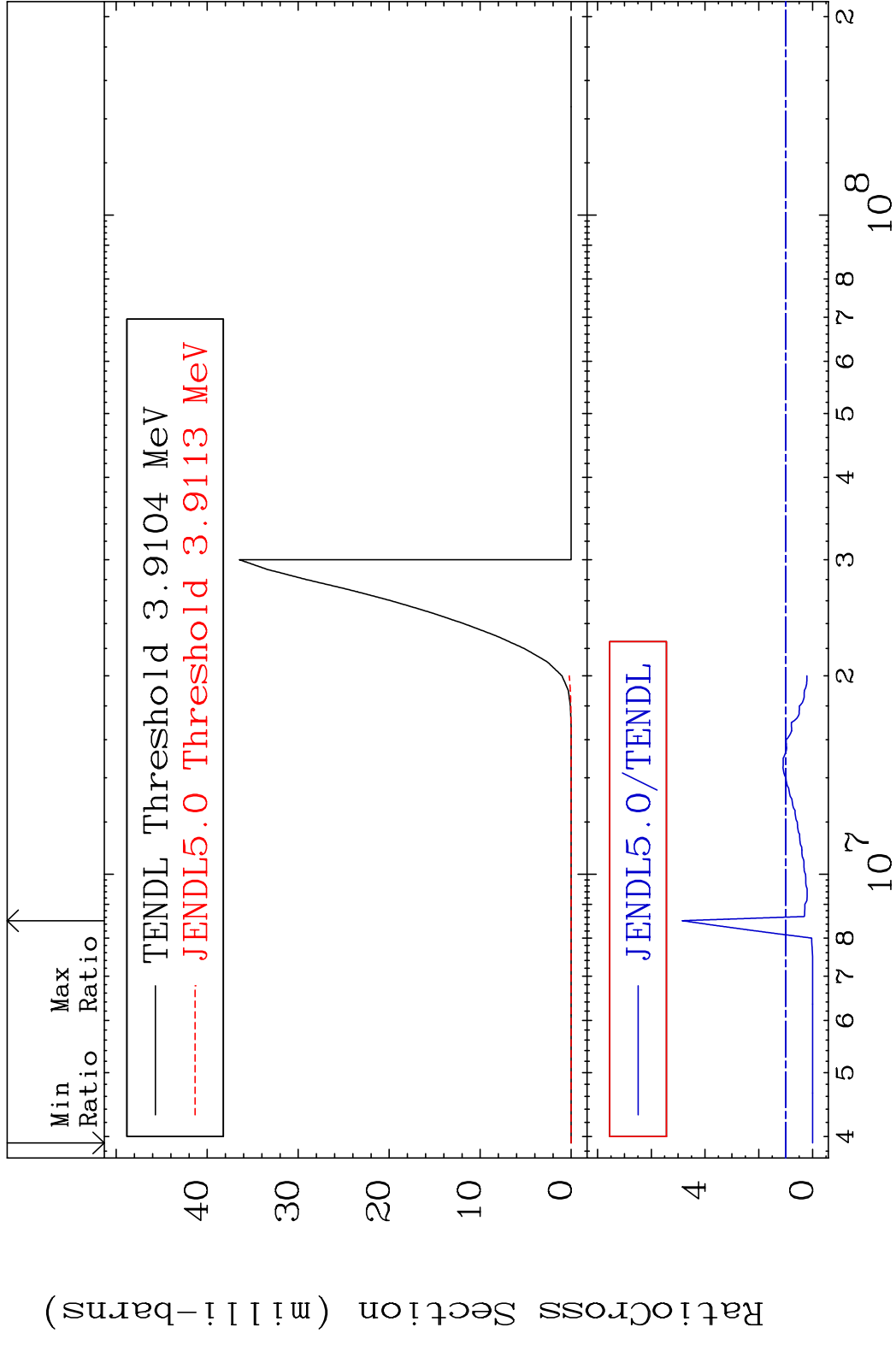
Incident Energy (eV)

4

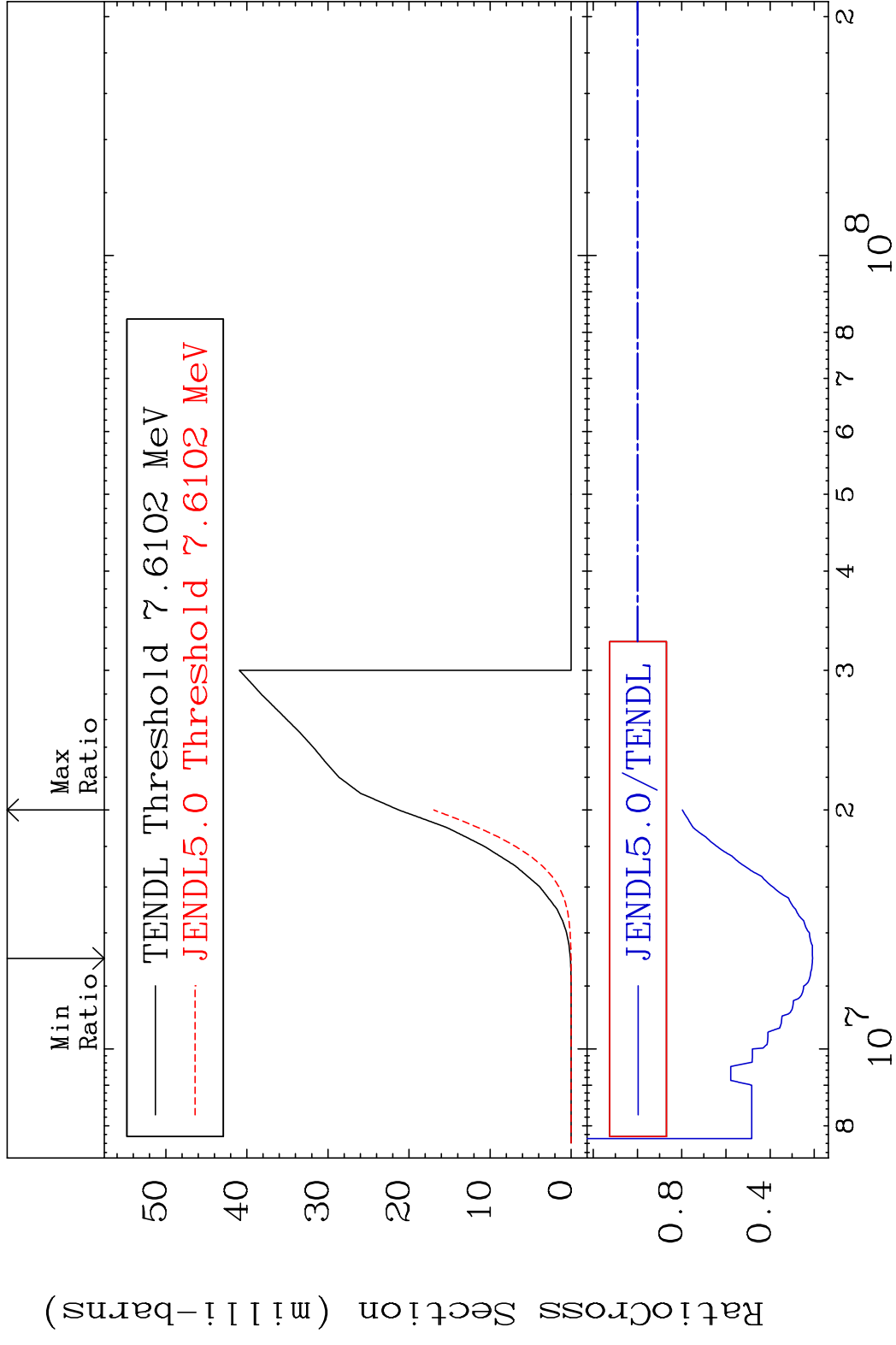
MAT 6240 (n, n') α 62-Sm-149
Cross Section -100.0 To 9999. %



MAT 6240 (n,2n) α 62-Sm-149
 Cross Section -100.0 To 384.3 %

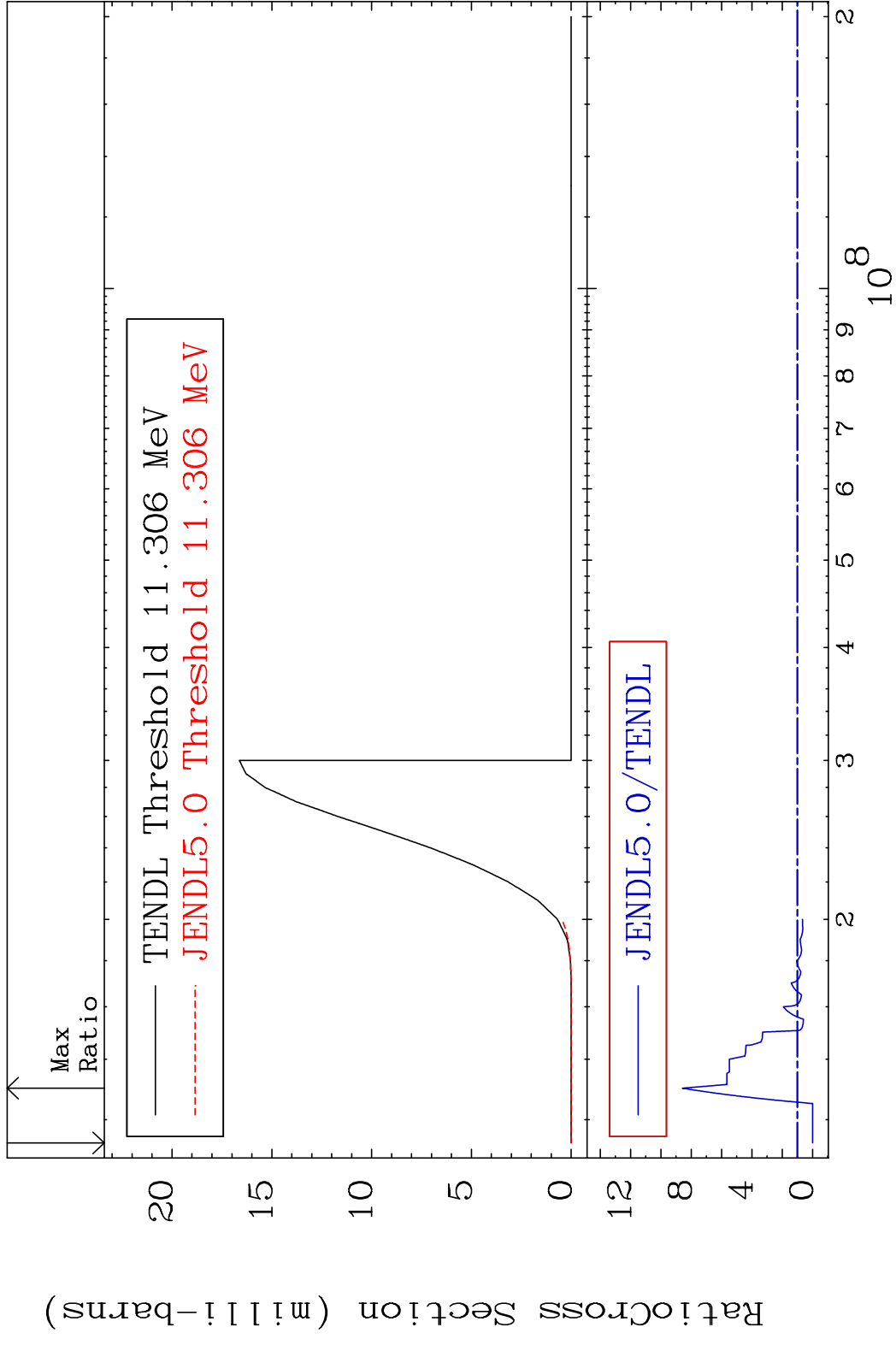


MAT 6240 (n, n') p 62-Sm-149
 Cross Section -79.22 To -20.30%

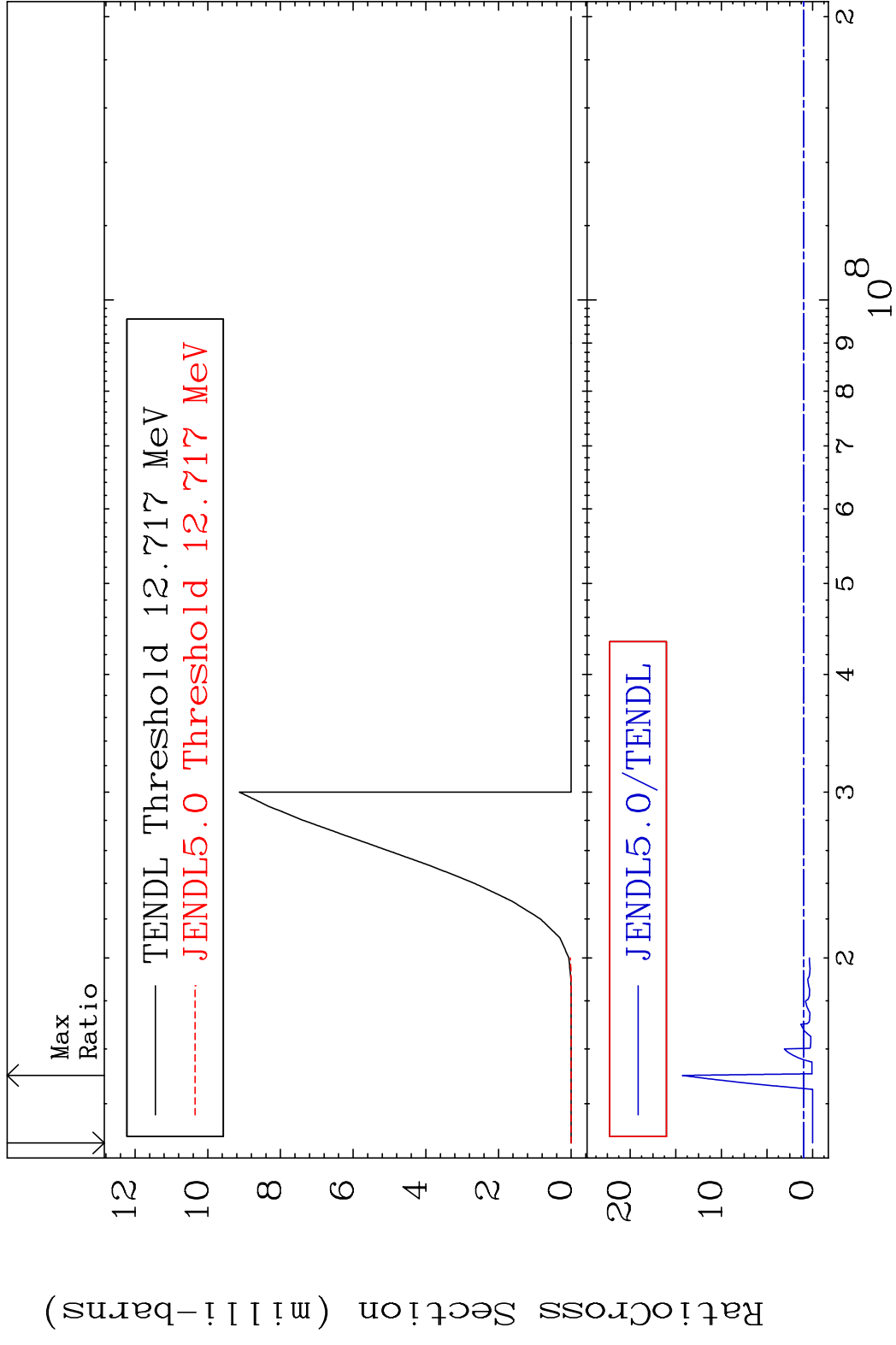


8 8 Incident Energy (eV) 62-Sm-149

MAT 6240 (n, n') d 62-Sm-149
 Cross Section -100.0 To 758.5 %

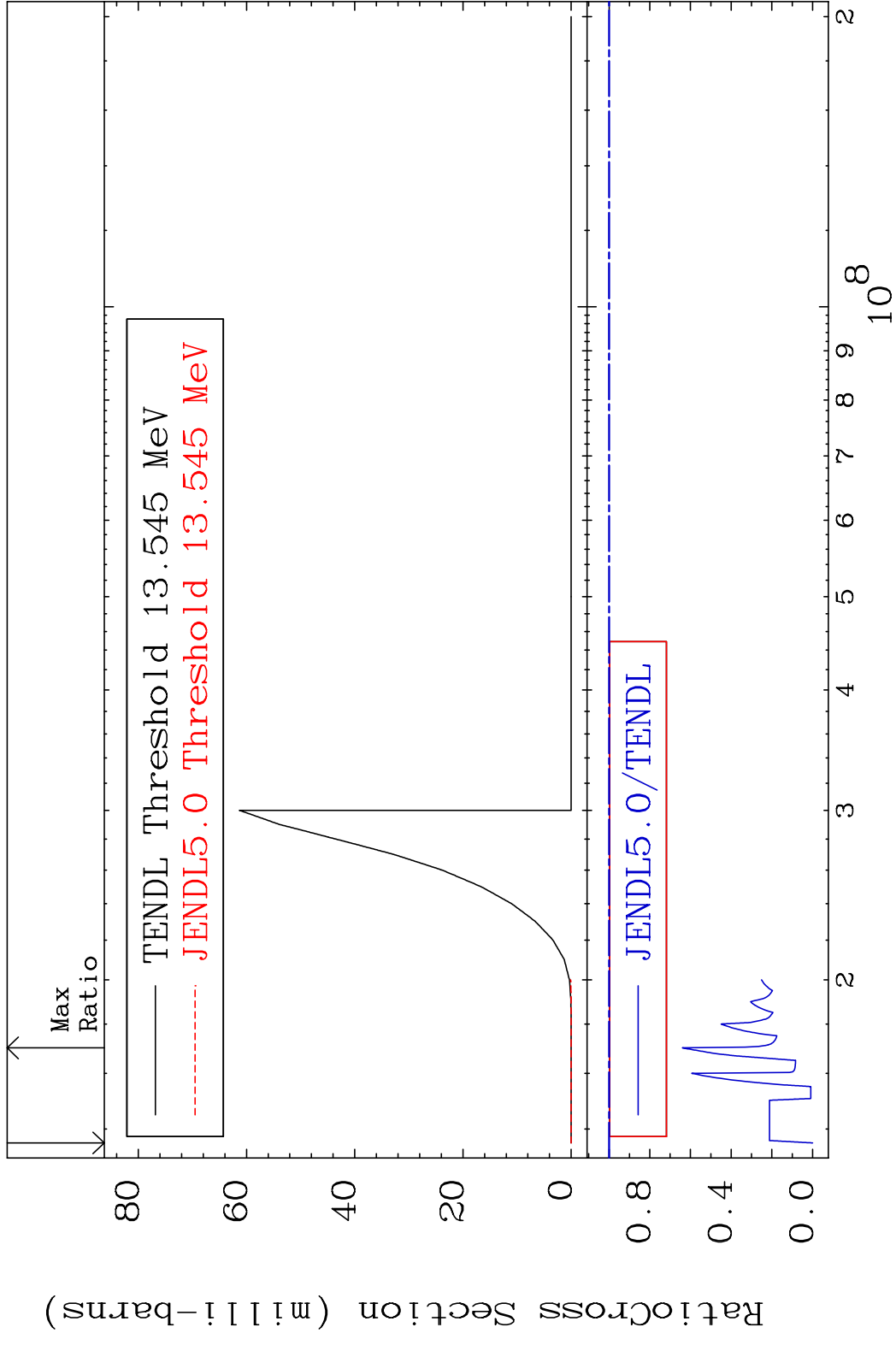


MAT 6240 (n, n') t 62-Sm-149
 Cross Section -100.0 To 1328. %

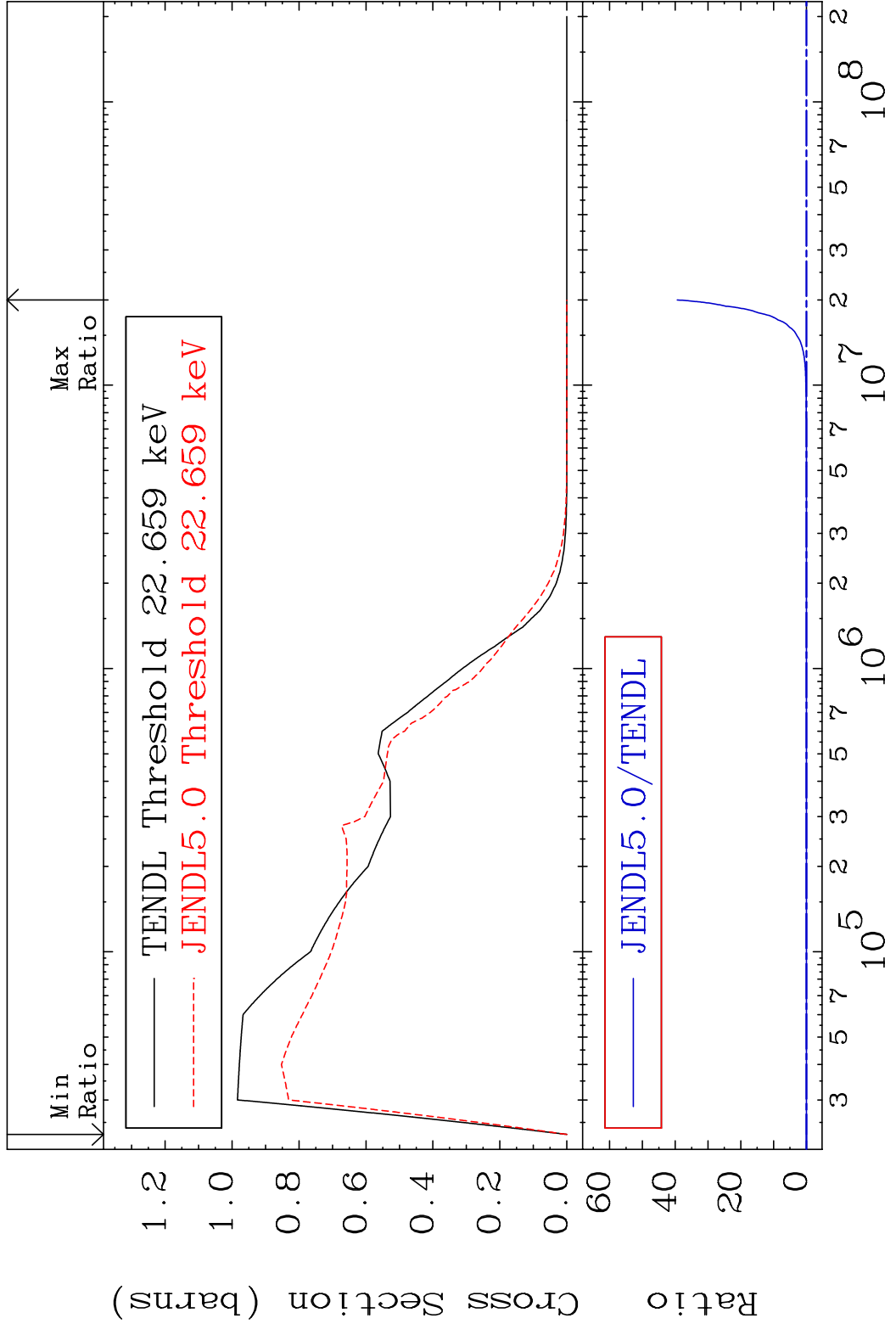


10 100 1000 10000 100000 1000000 10000000 100000000 1000000000 62-Sm-149

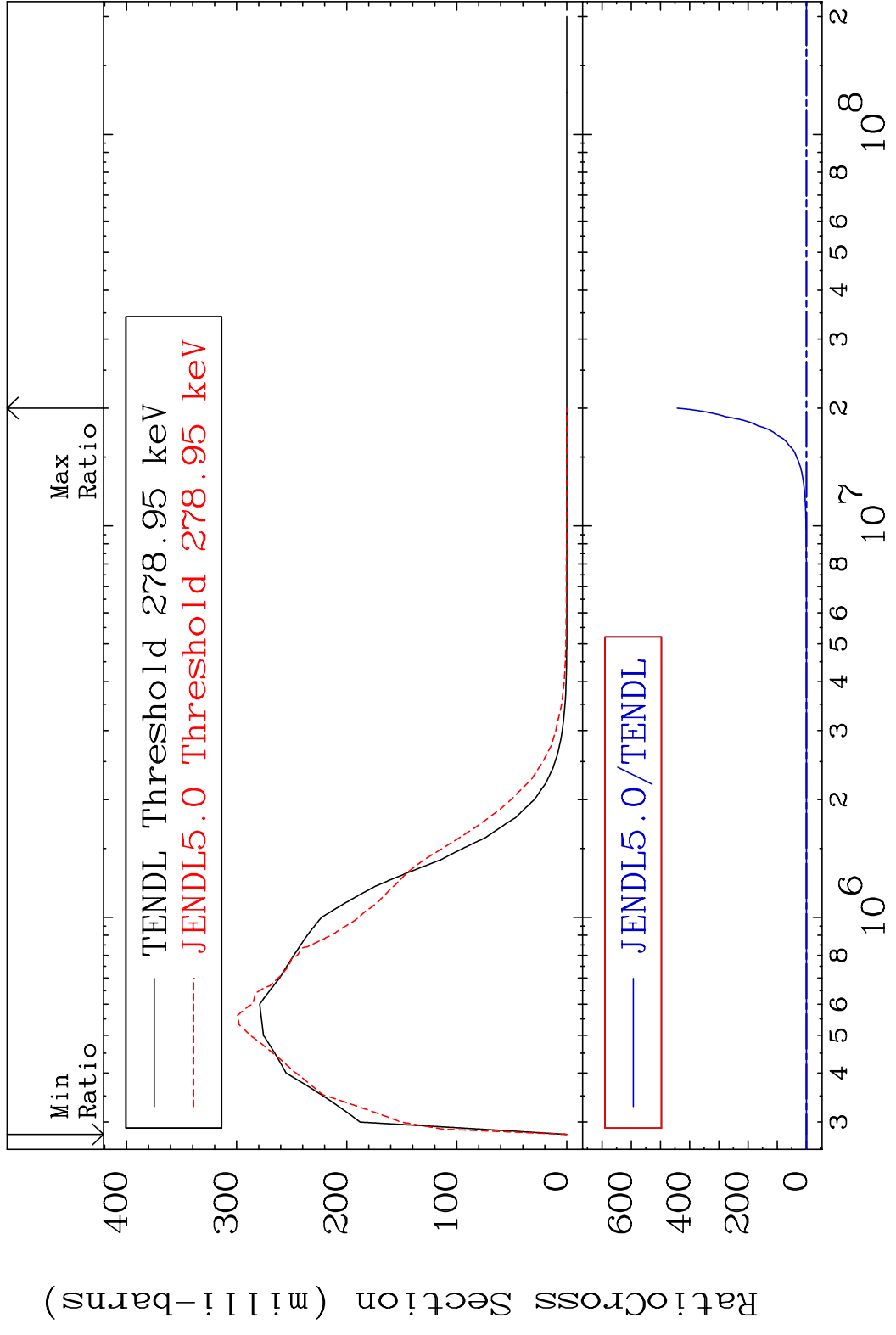
MAT 6240 (n,2n) p 62-Sm-149
 Cross Section -100.0 To -36.01%



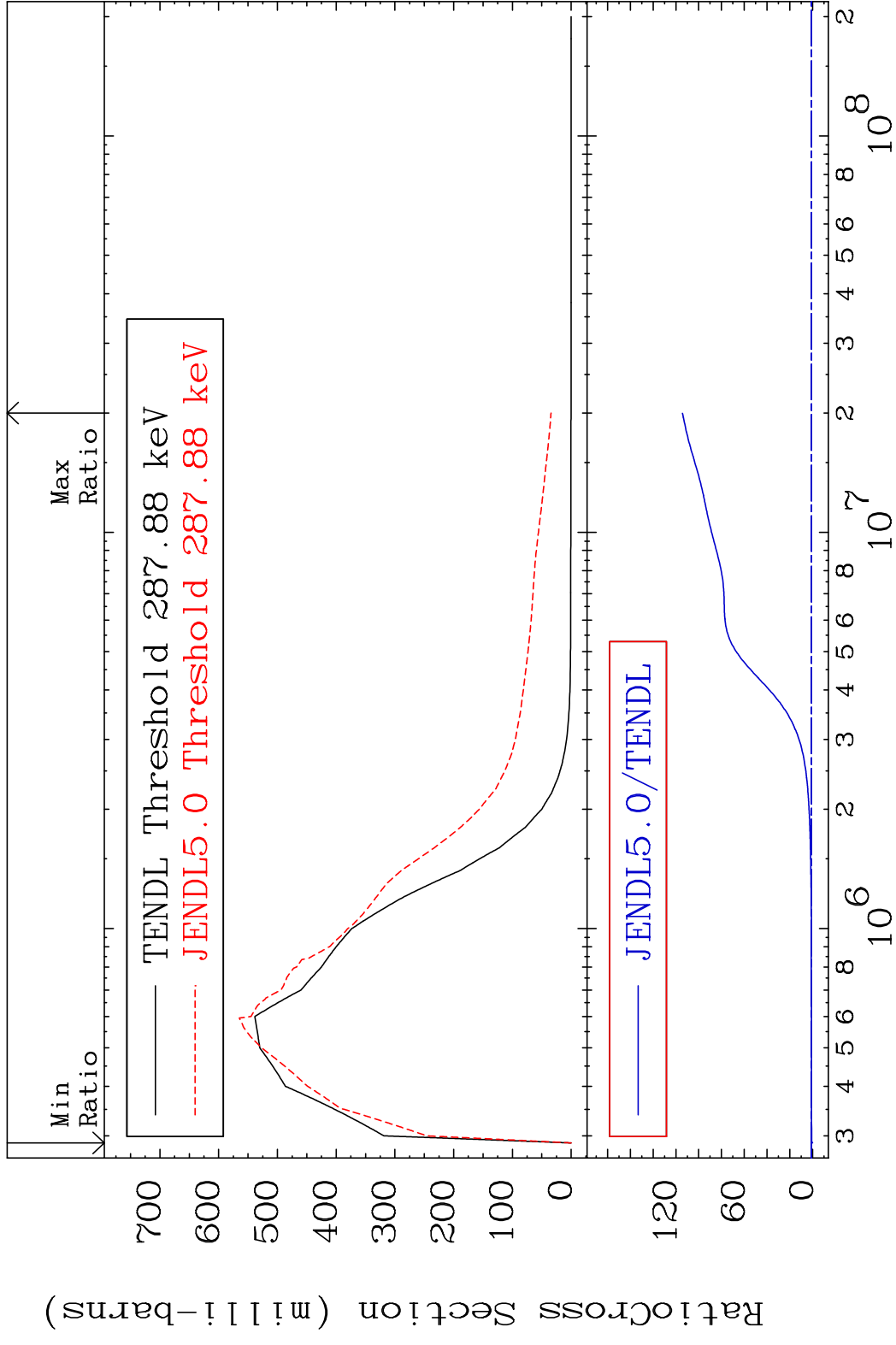
MAT 6240 MT= 51 (n,n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



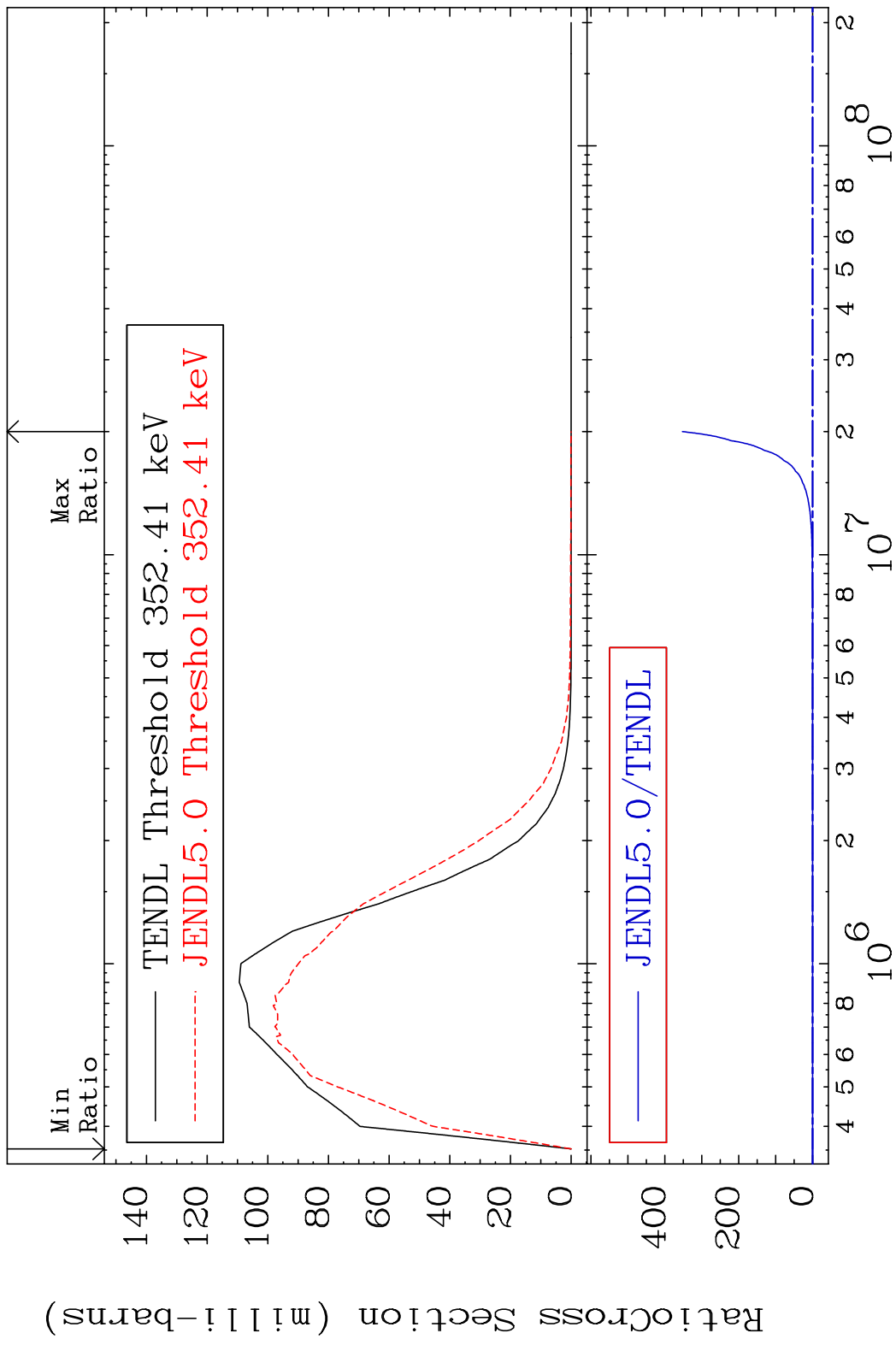
MAT 6240 MT= 52 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



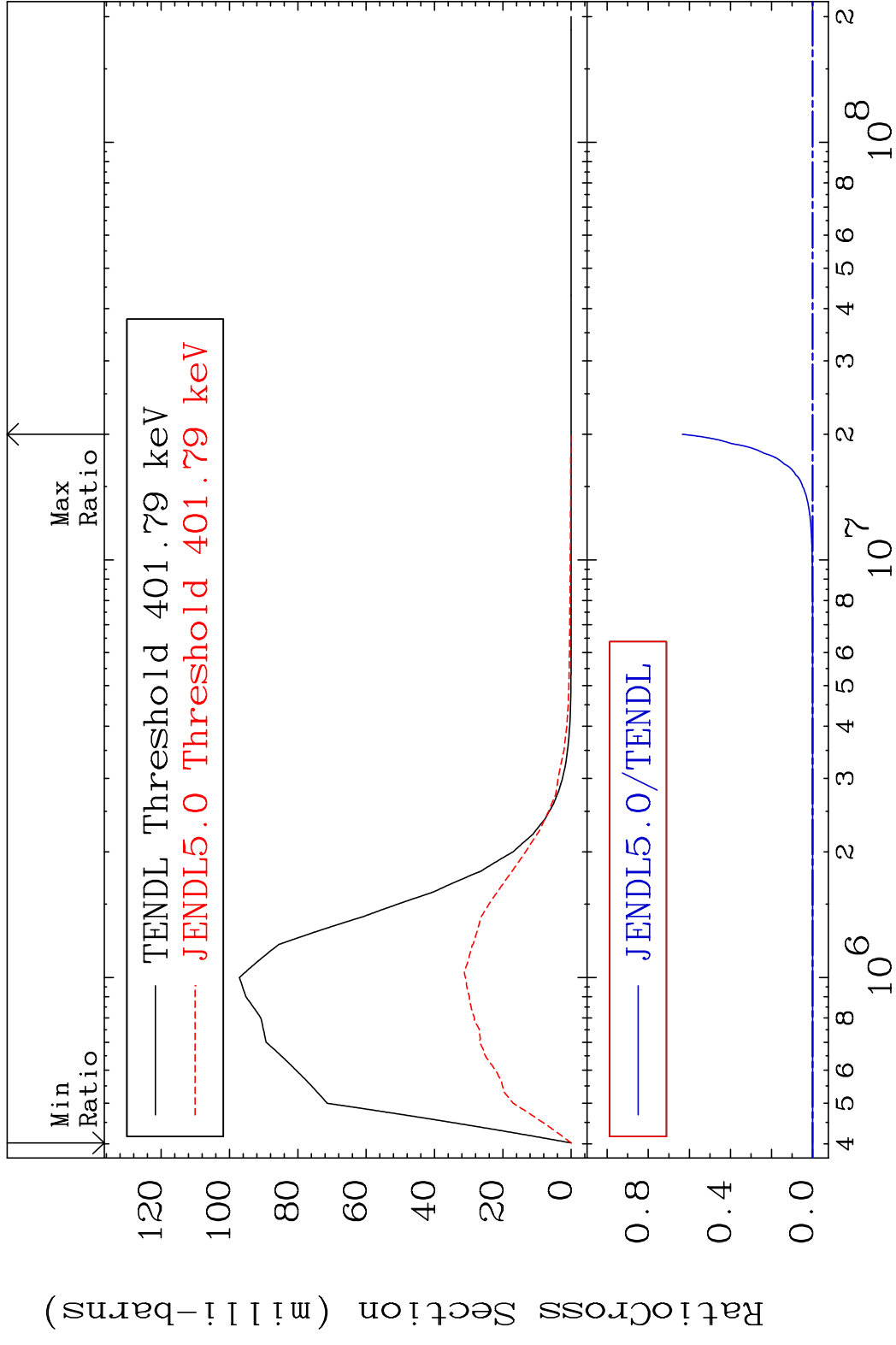
MAT 6240 MT= 53 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



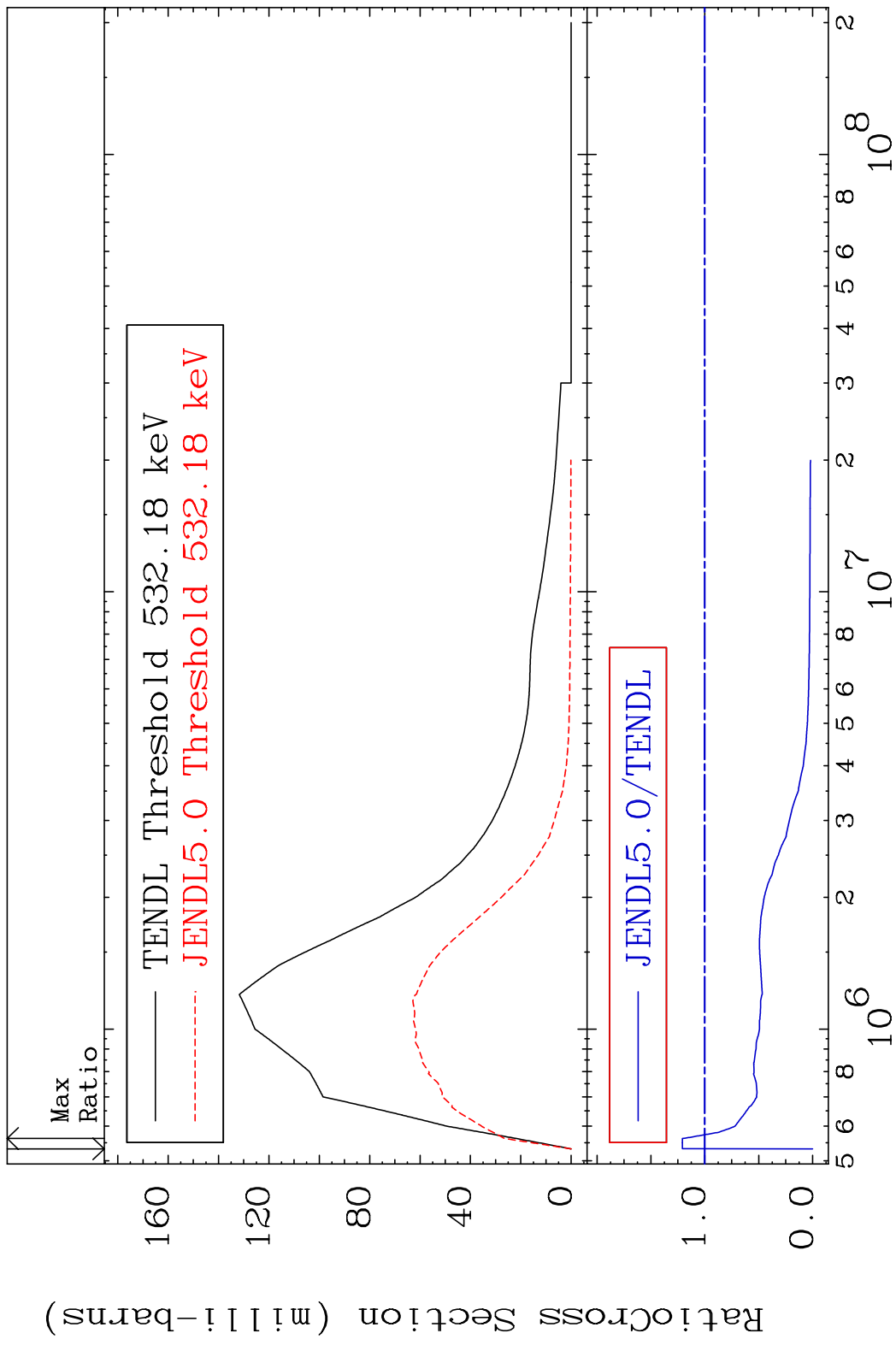
MAT 6240 MT= 54 (n,n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



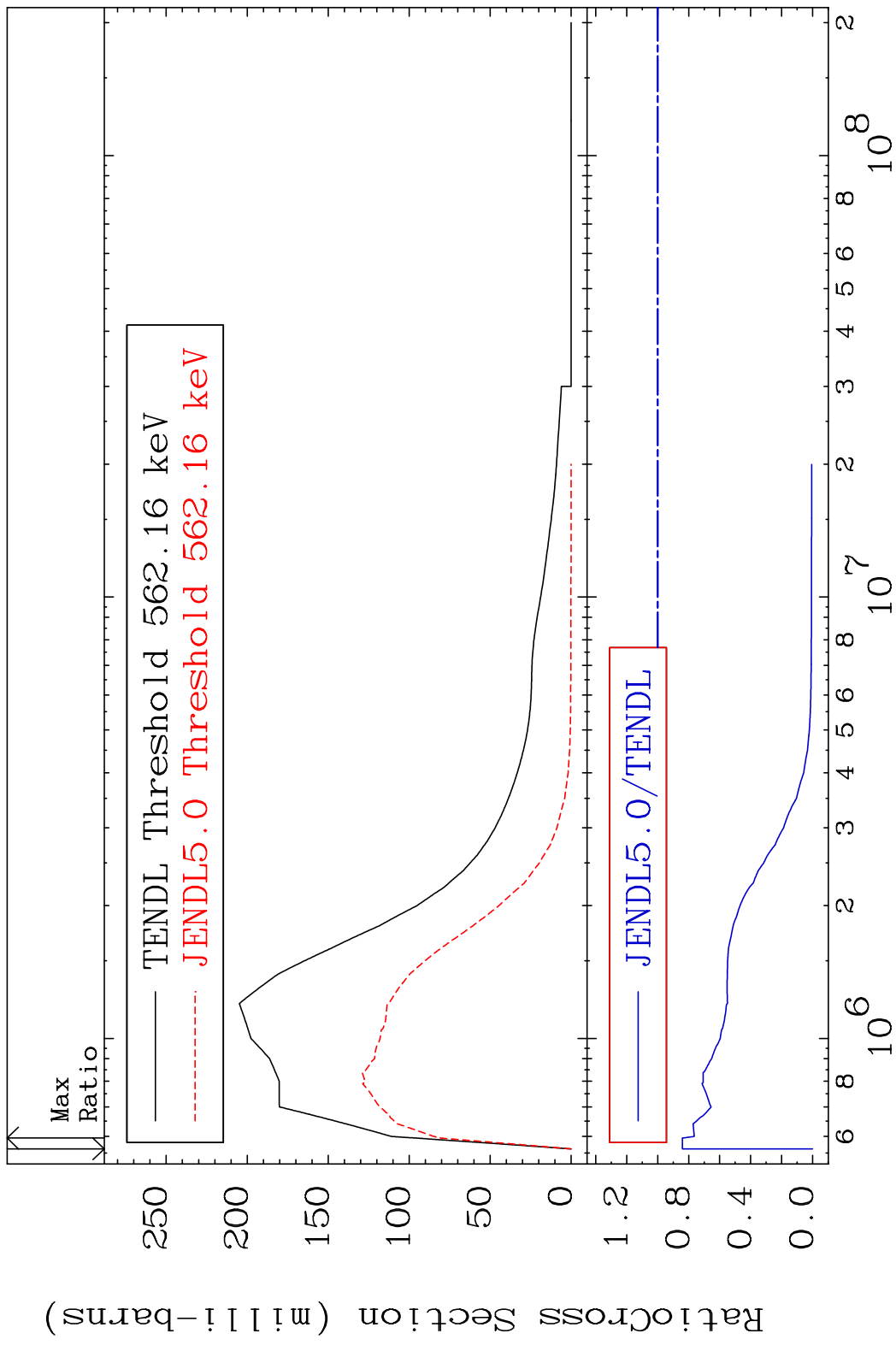
MAT 6240 MT= 55 (n,n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



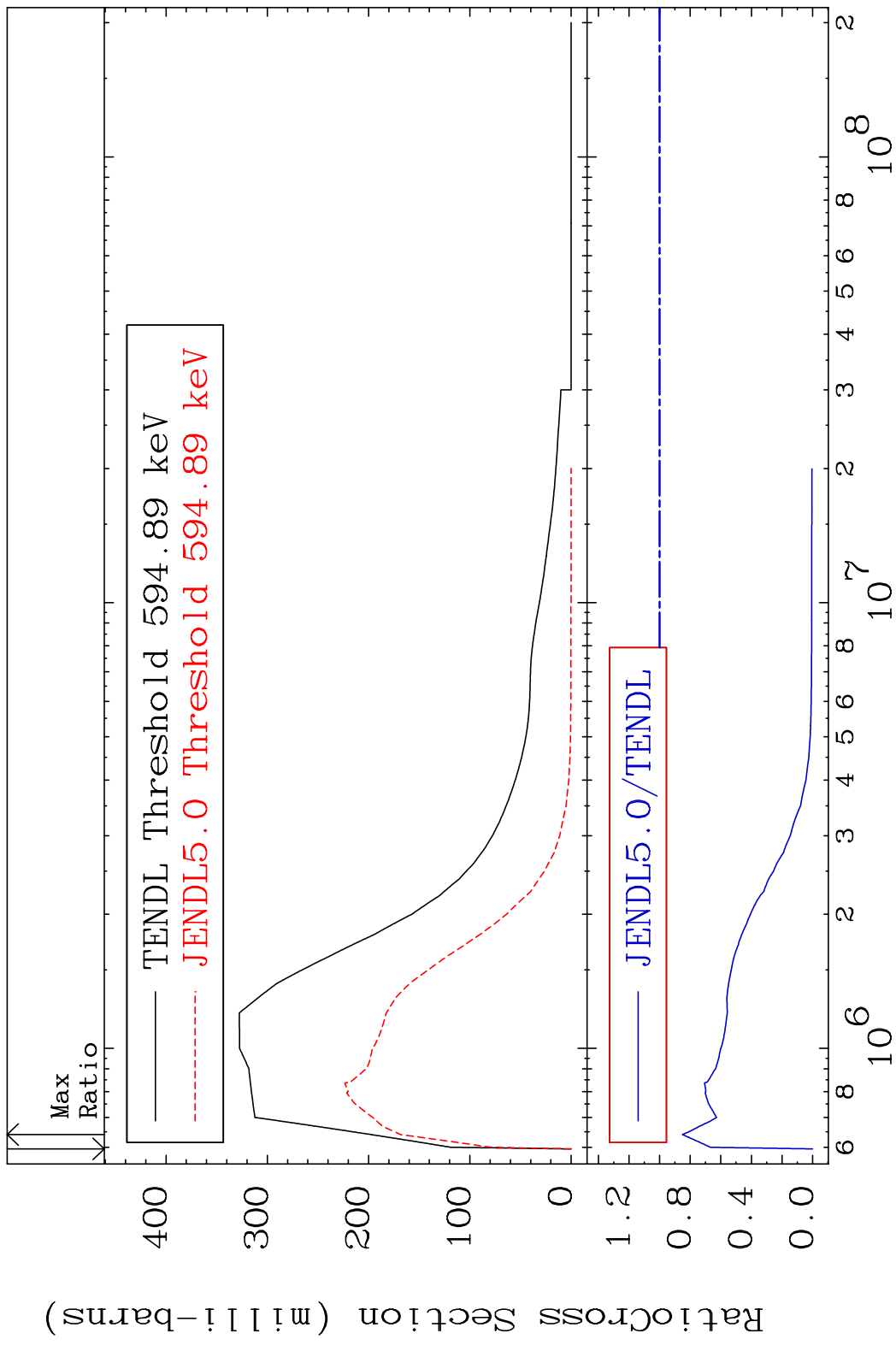
MAT 6240 MT= 56 (n,n') Level 62-Sm-149
 Cross Section -100.0 To 20.83 %



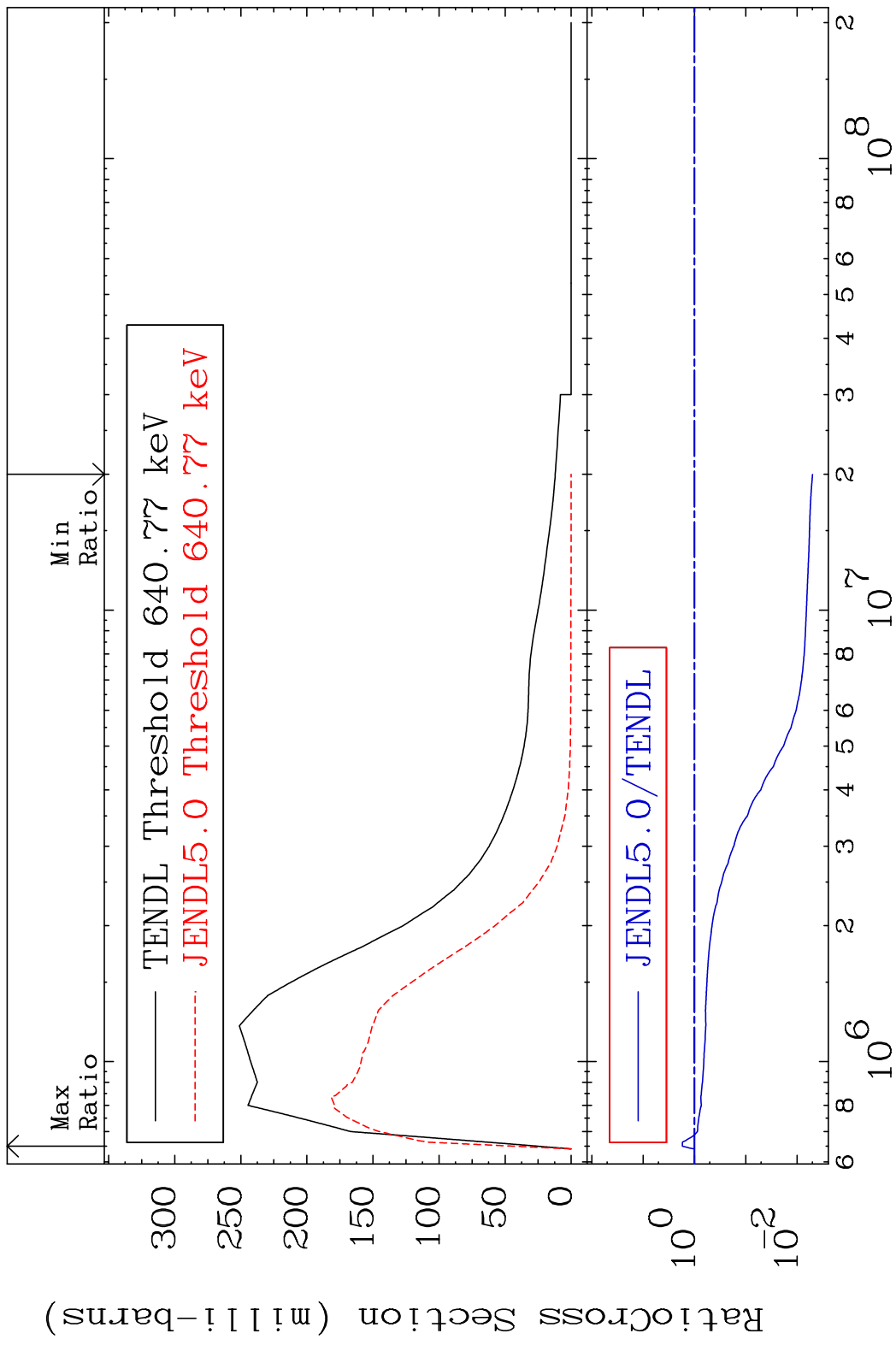
MAT 6240 MT= 57 (n,n') Level 62-Sm-149
 Cross Section -100.0 To -15.91%



MAT 6240 MT= 58 (n,n') Level 62-Sm-149
 Cross Section -100.0 To -14.87%

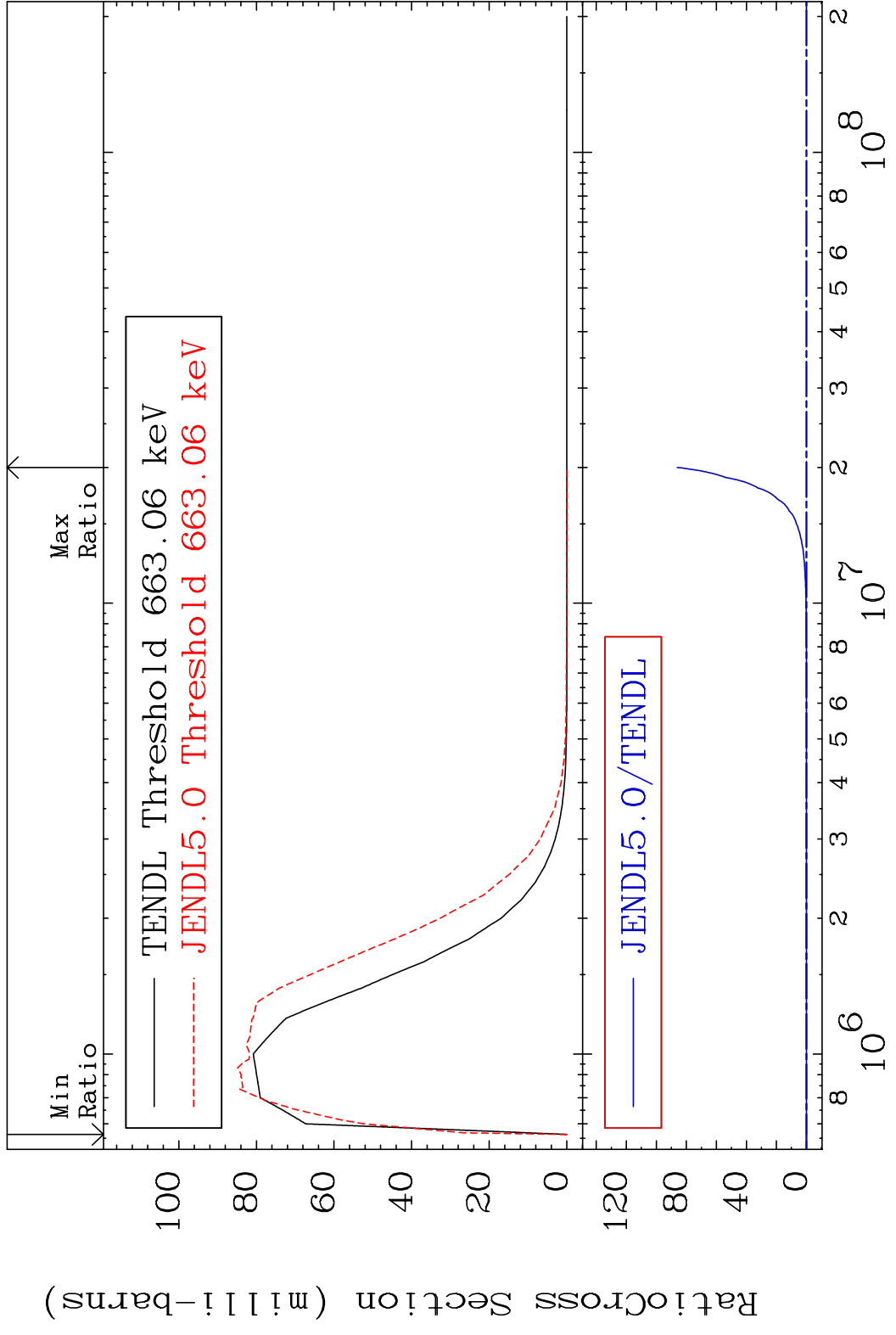


MAT 6240 MT= 59 (n, n') Level 62-Sm-149
 Cross Section -99.50 To 71.48 %

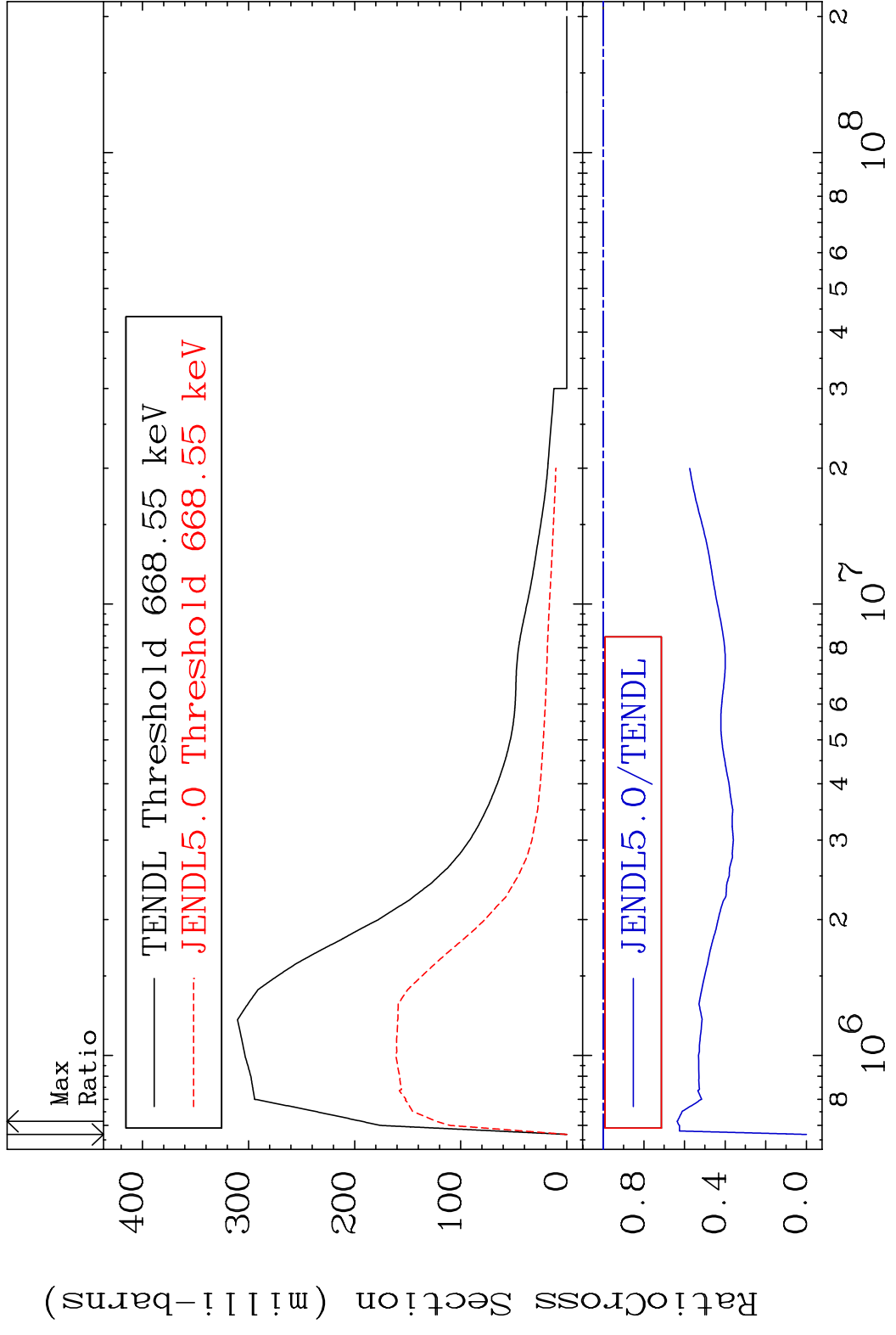


20 Incident Energy (eV) 62-Sm-149

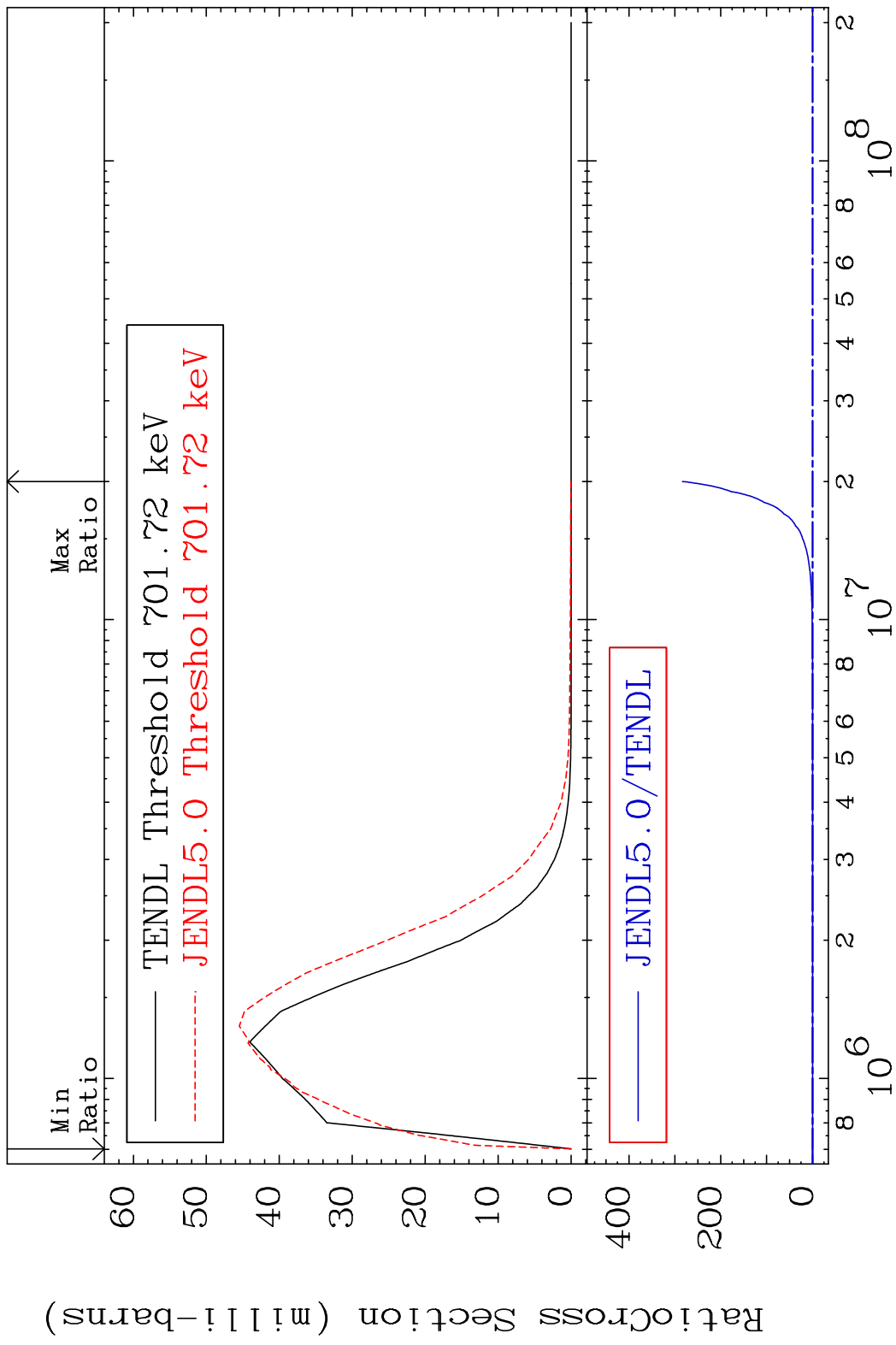
MAT 6240 MT= 60 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



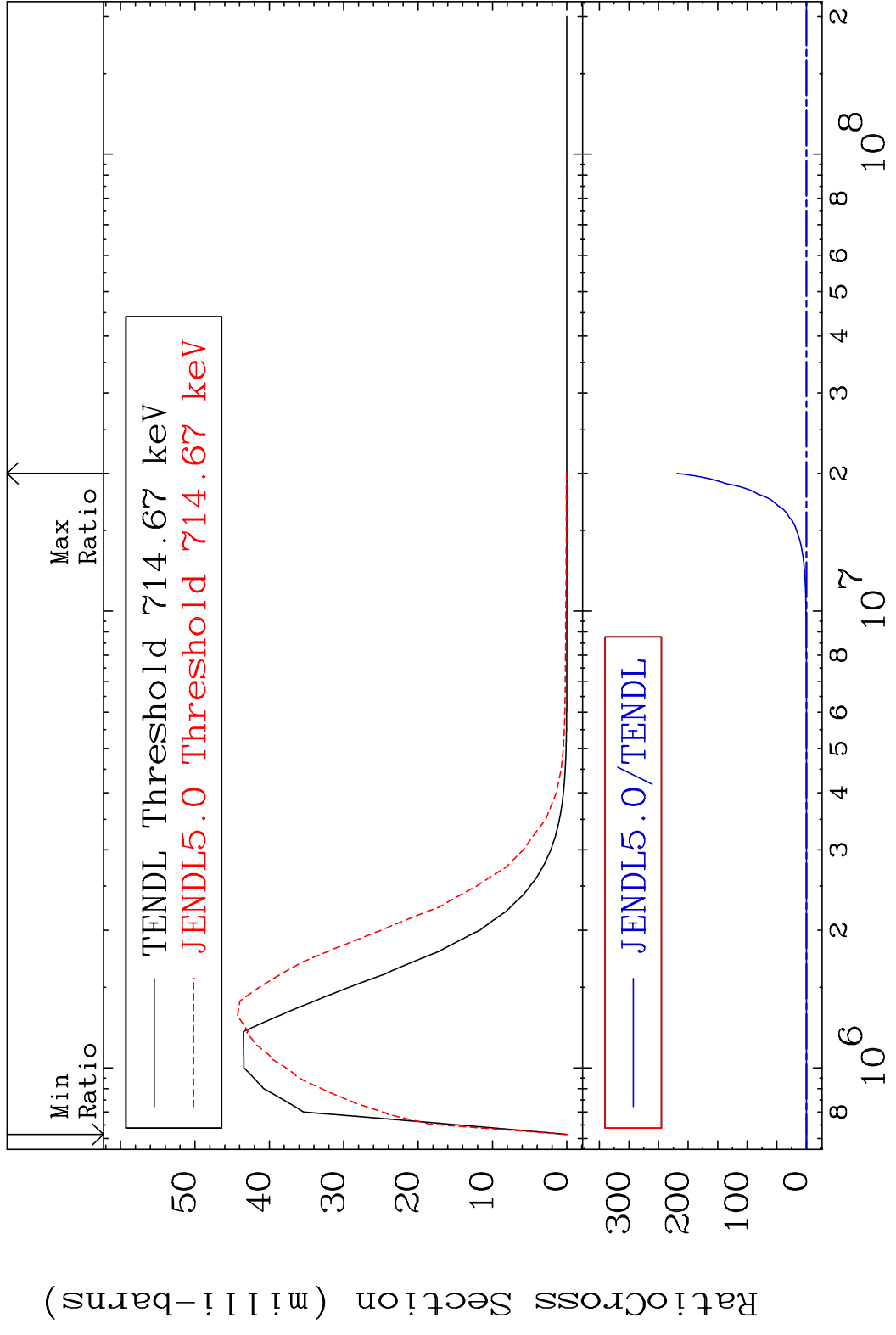
MAT 6240 MT= 61 (n,n') Level 62-Sm-149
 Cross Section -100.0 To -36.40%



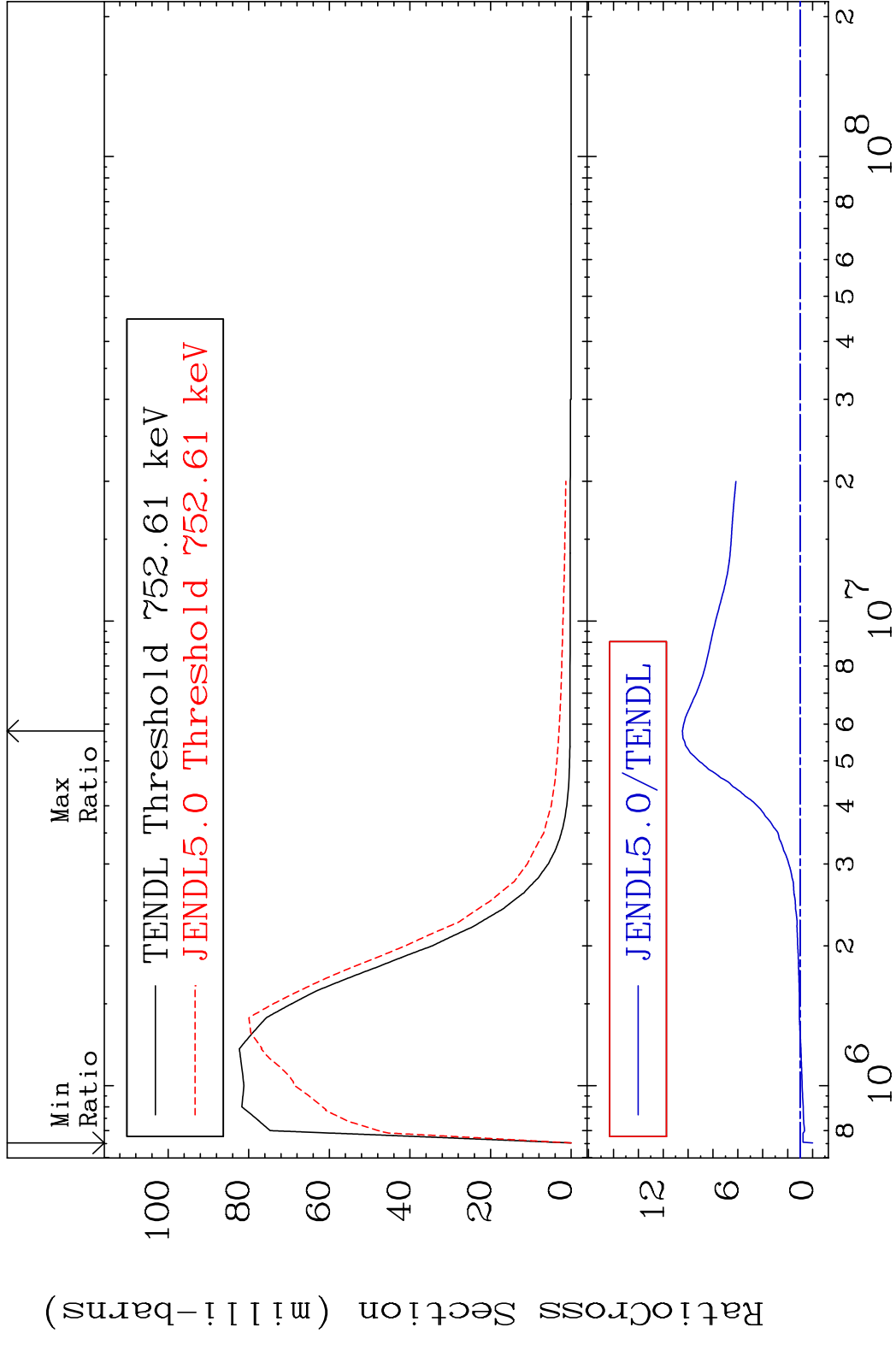
MAT 6240 MT= 62 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



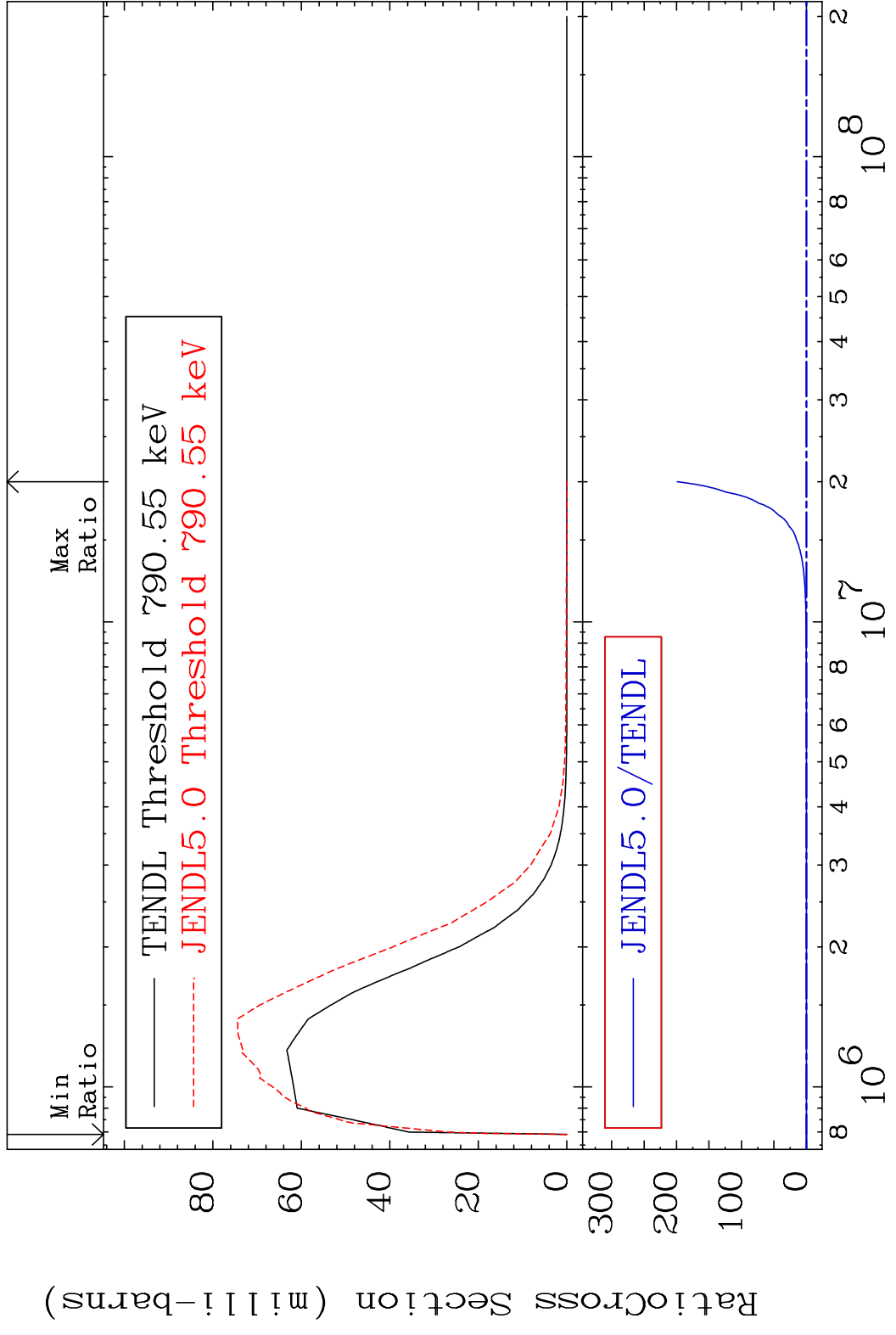
MAT 6240 MT= 63 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



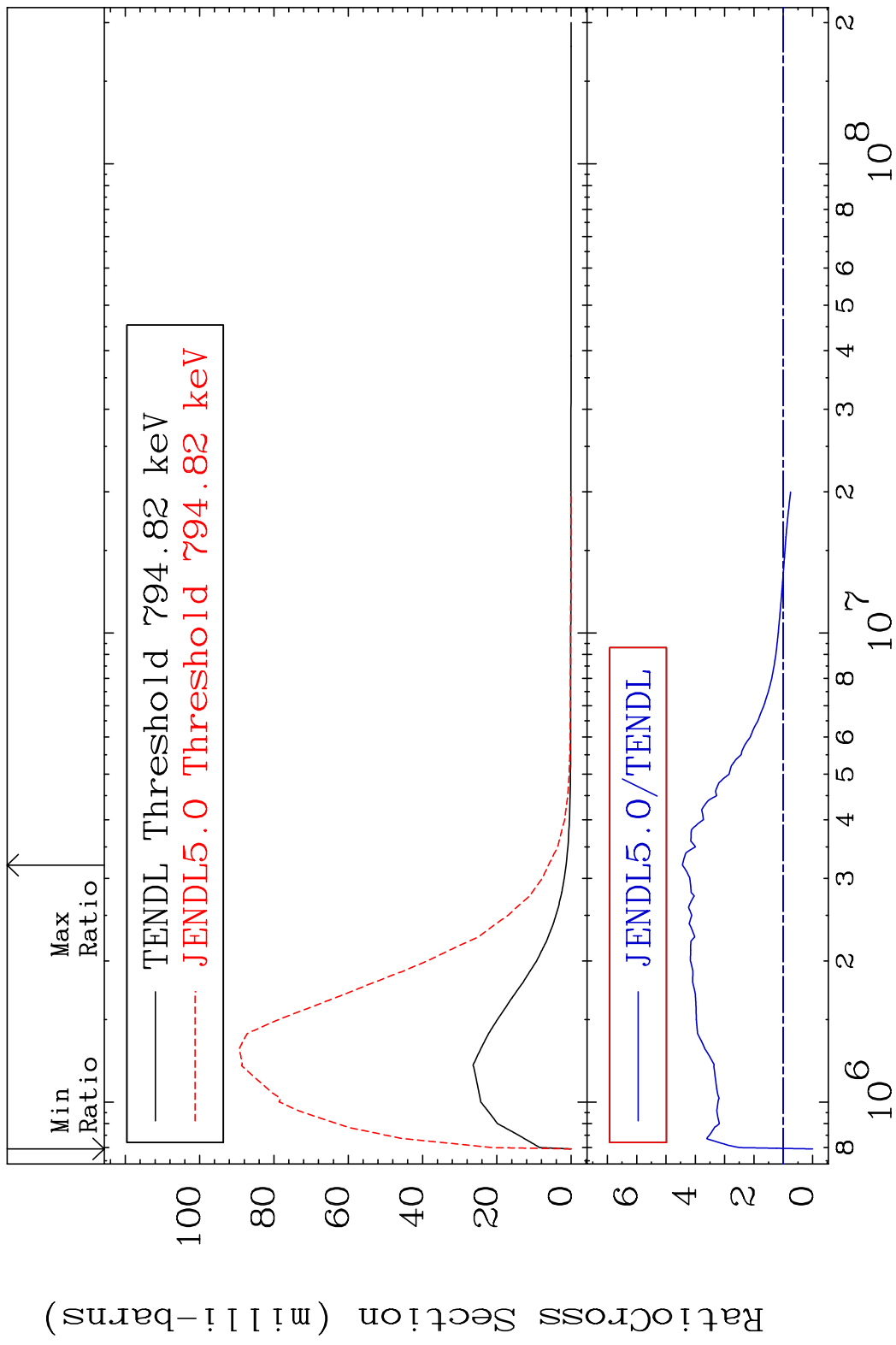
MAT 6240 MT= 64 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 946.1 %



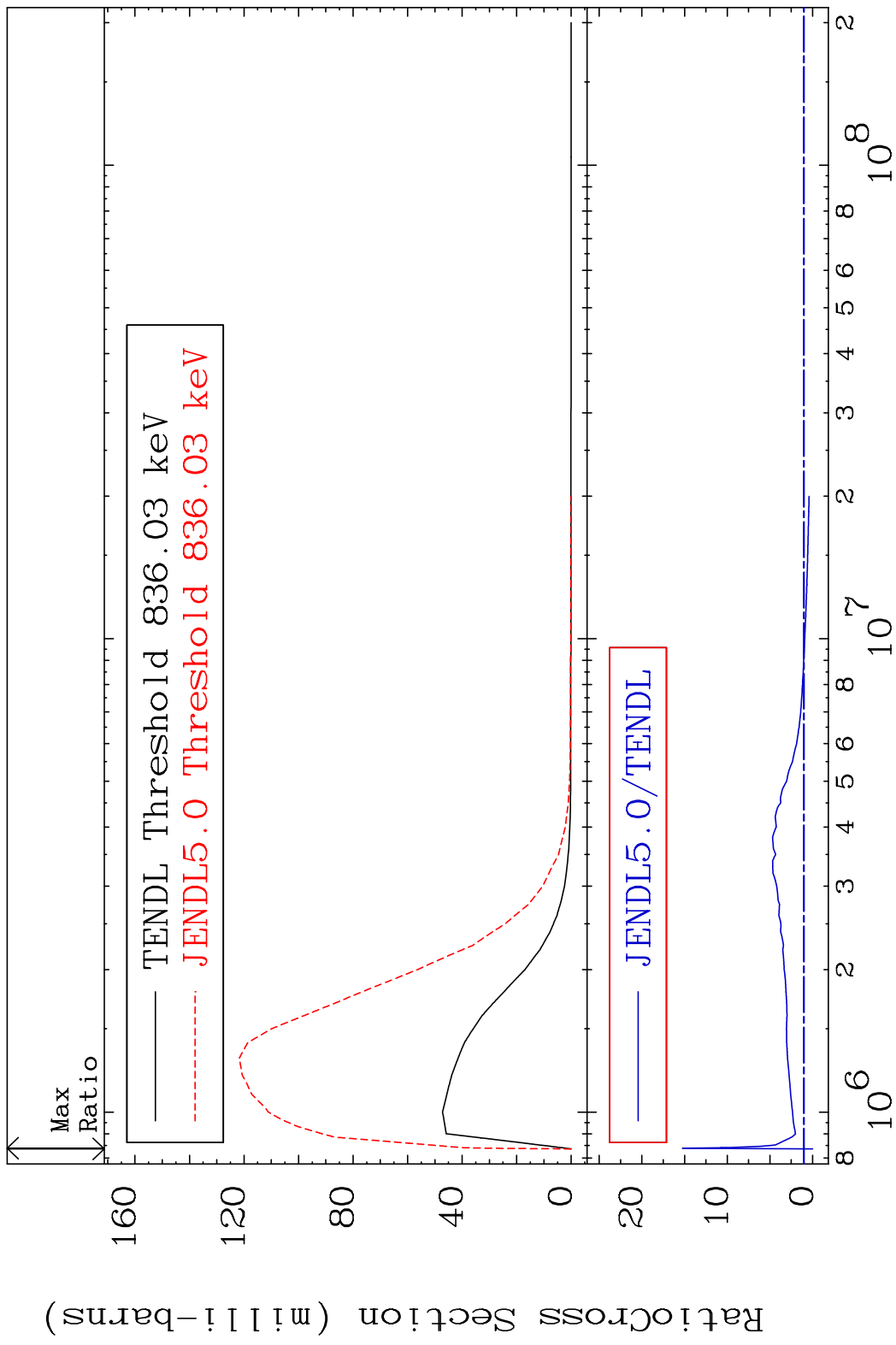
MAT 6240 MT= 65 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



MAT 6240 MT= 66 (n,n') Level 62-Sm-149
 Cross Section -100.0 To 344.2 %

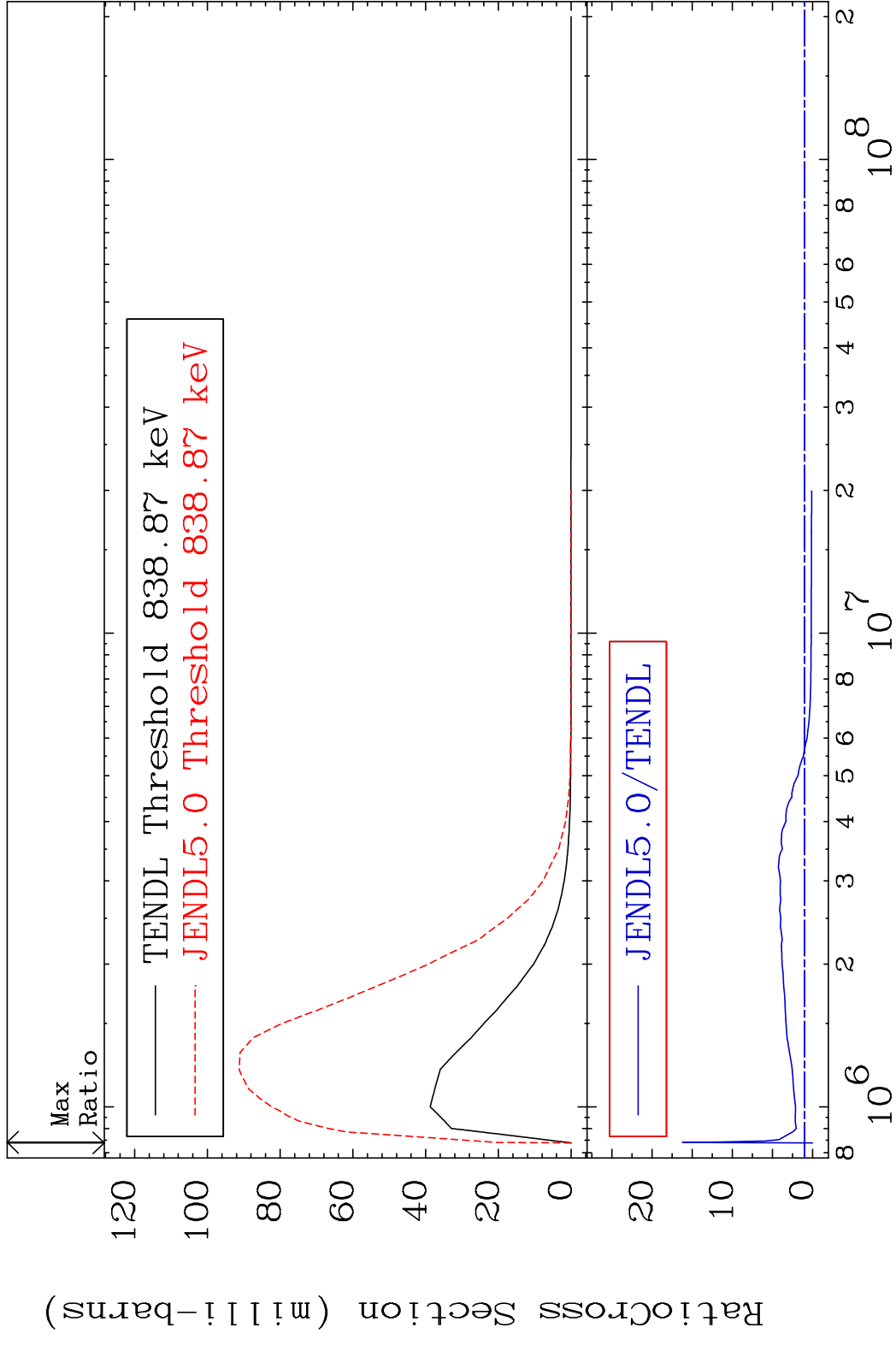


MAT 6240 MT= 67 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 1426. %



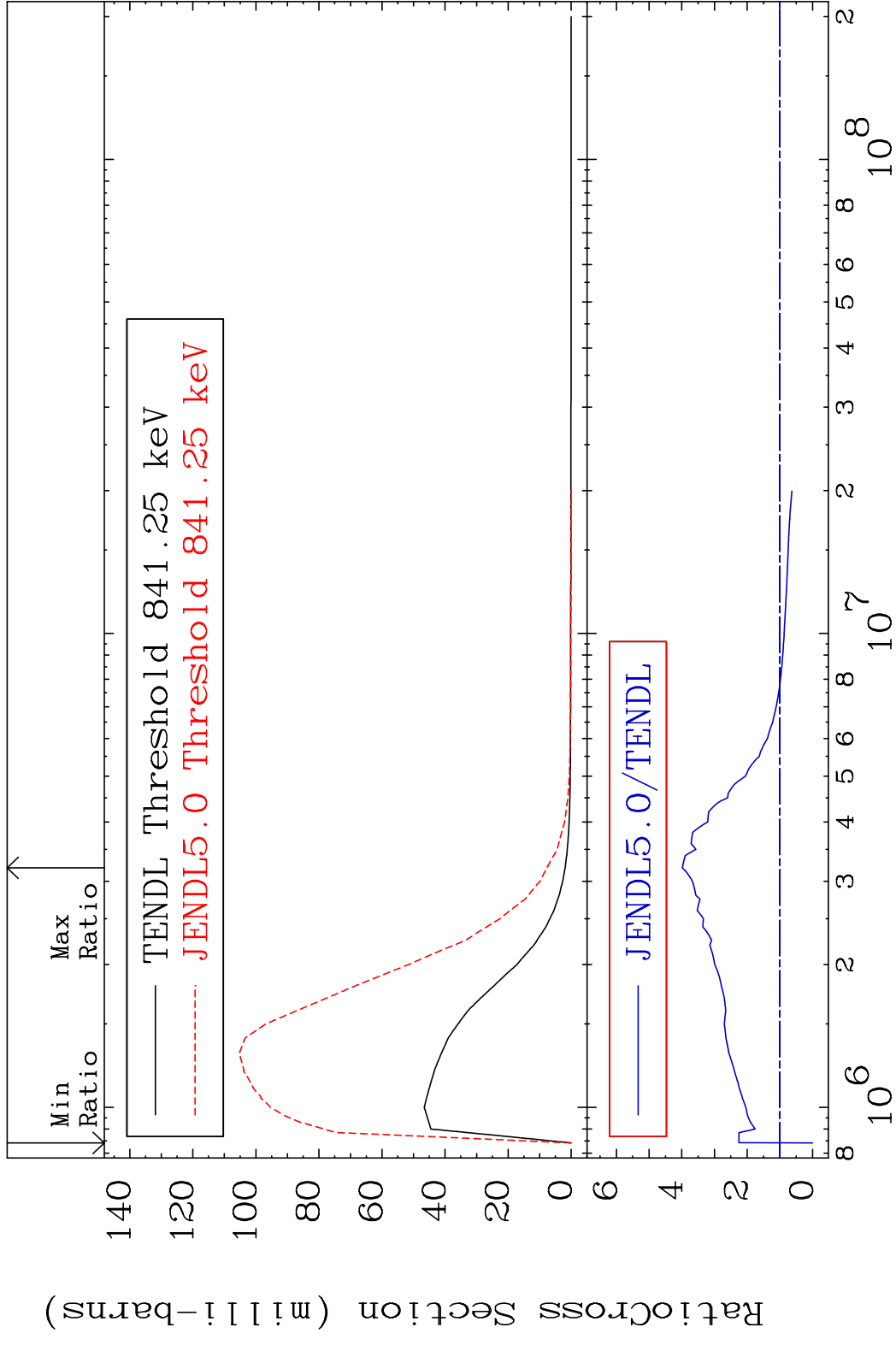
28 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 68 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 1523. %



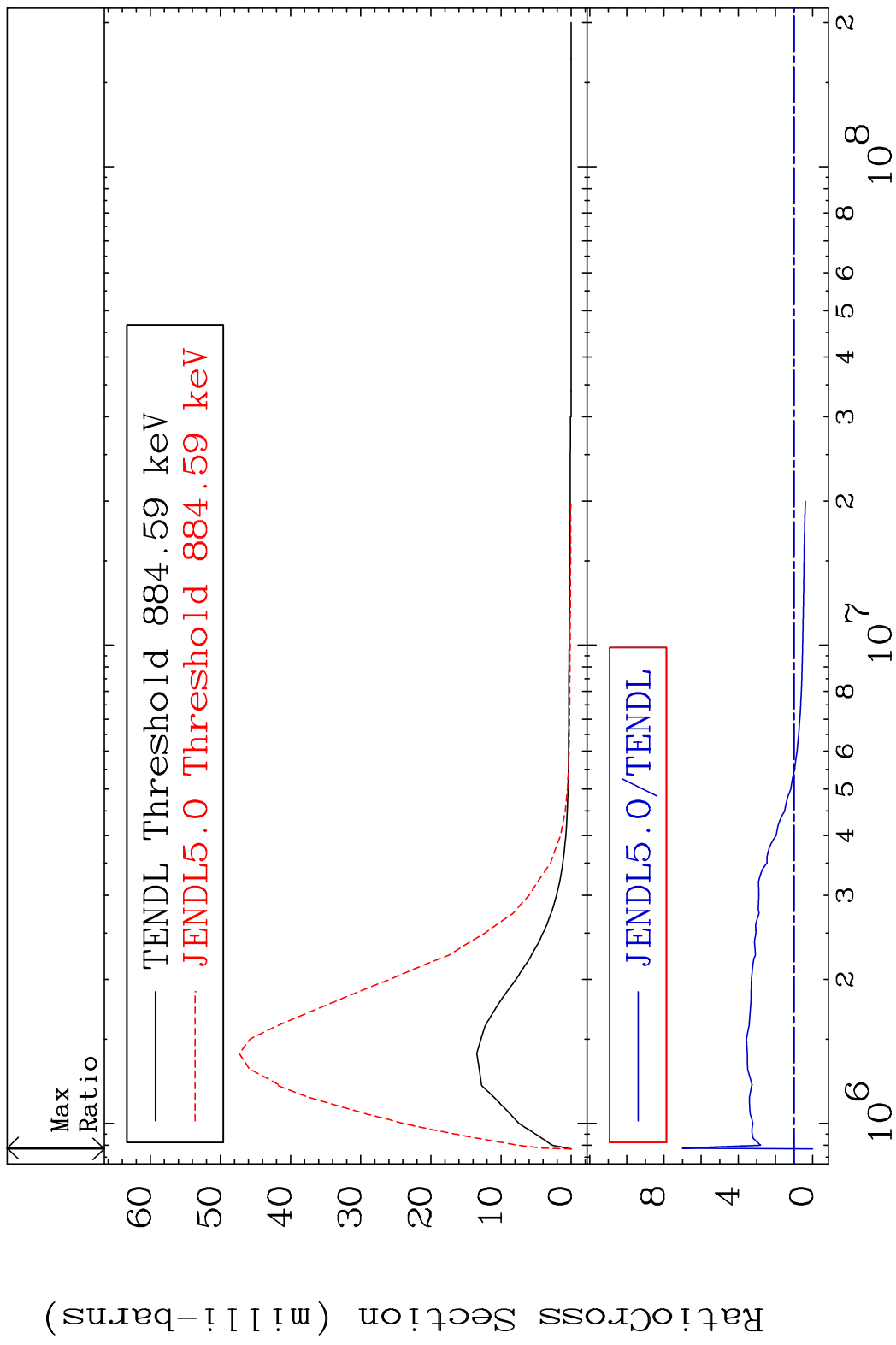
29 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 69 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 298.3 %

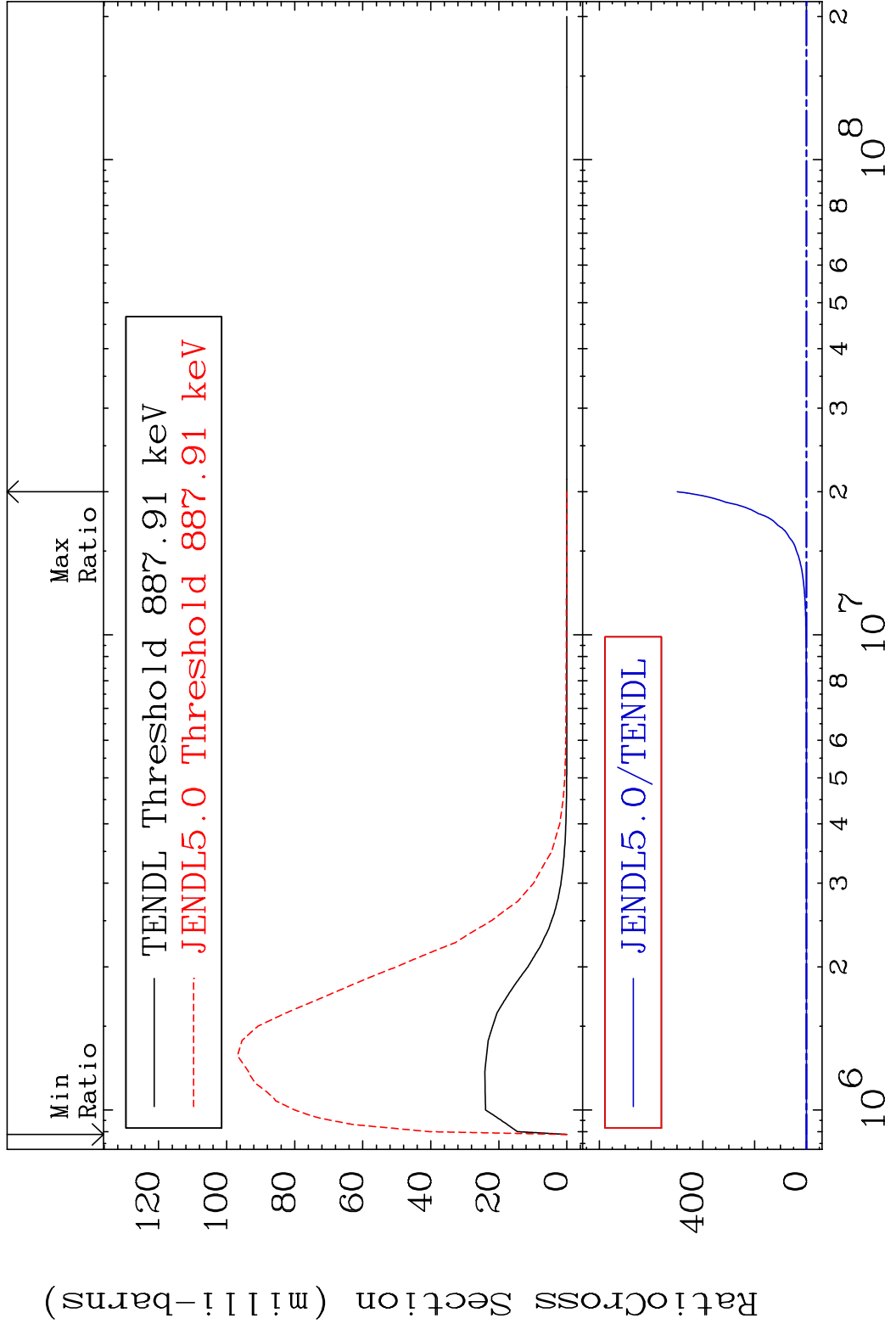


30 Incident Energy (eV) 62-Sm-149

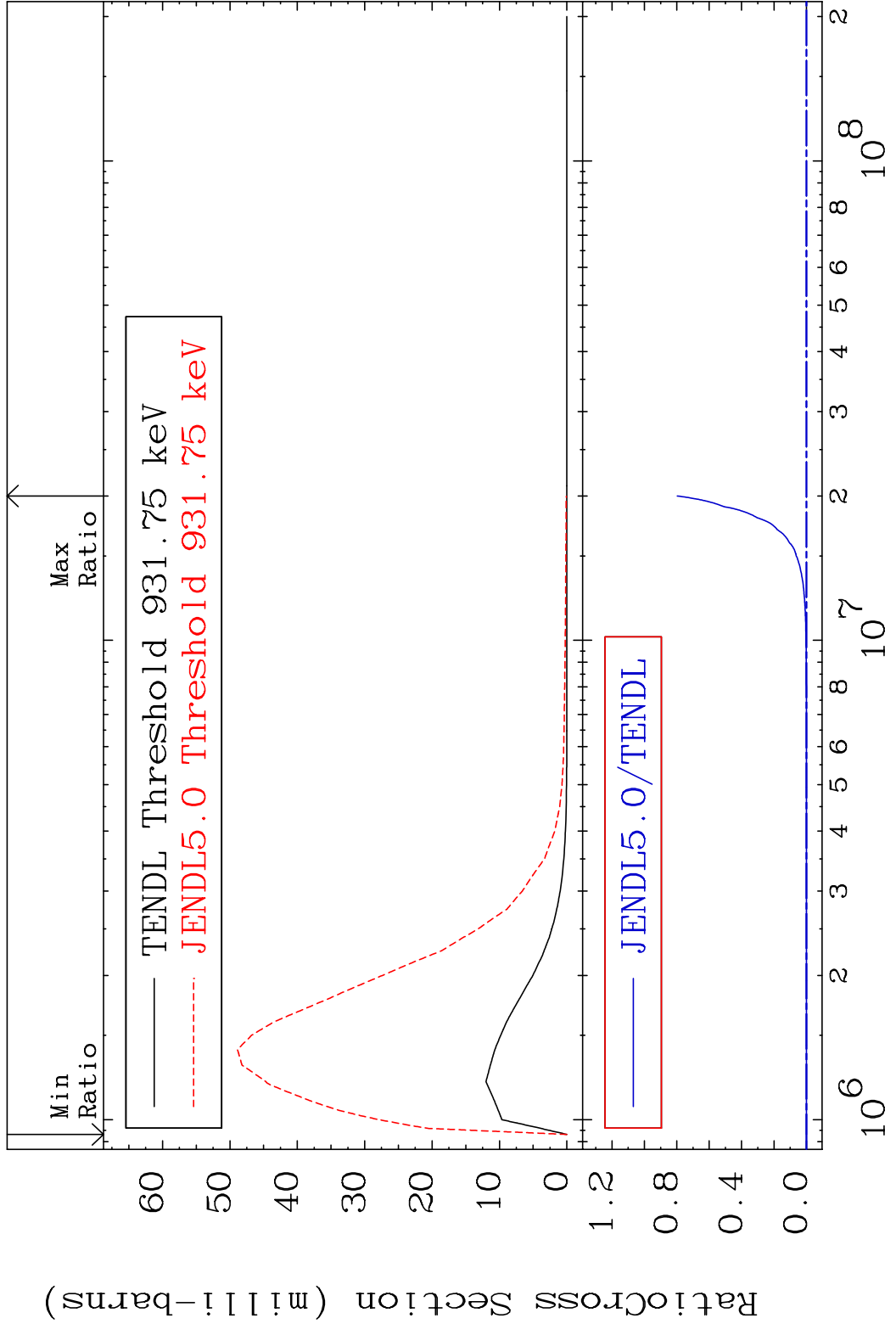
MAT 6240 MT= 70 (n,n') Level 62-Sm-149
 Cross Section -100.0 To 601.1 %



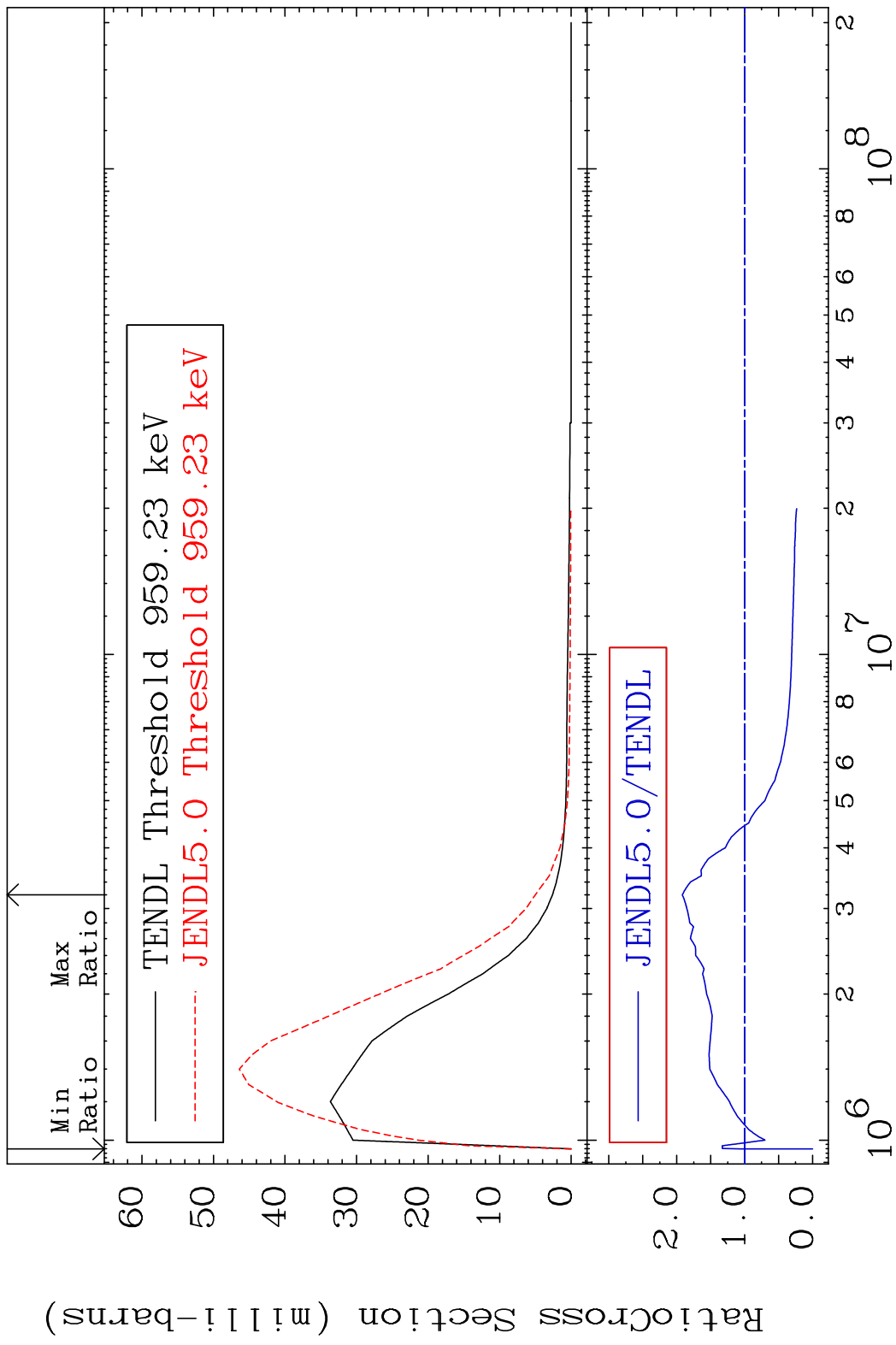
MAT 6240 MT= 71 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



MAT 6240 MT= 72 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %

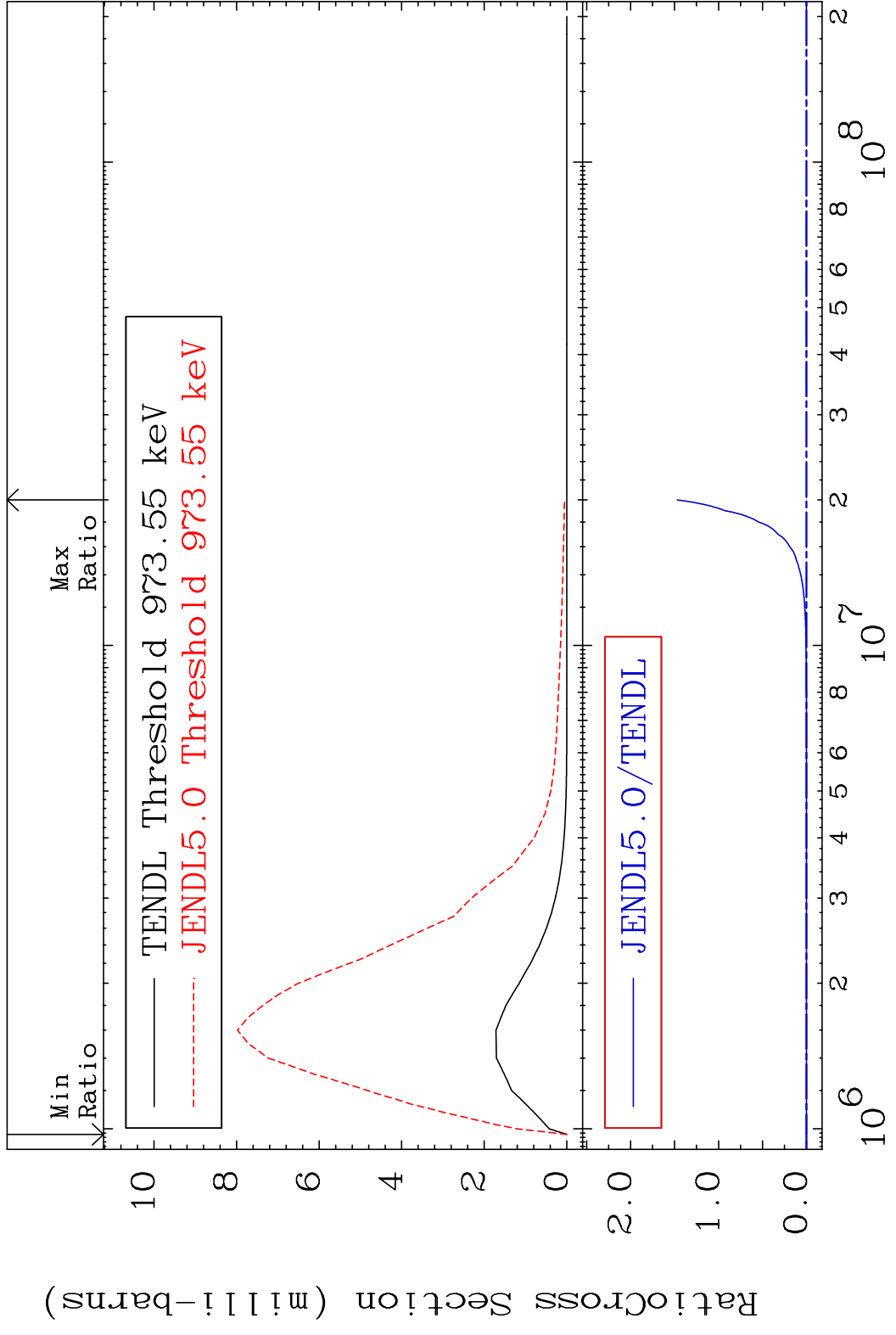


MAT 6240 MT= 73 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 91.74 %



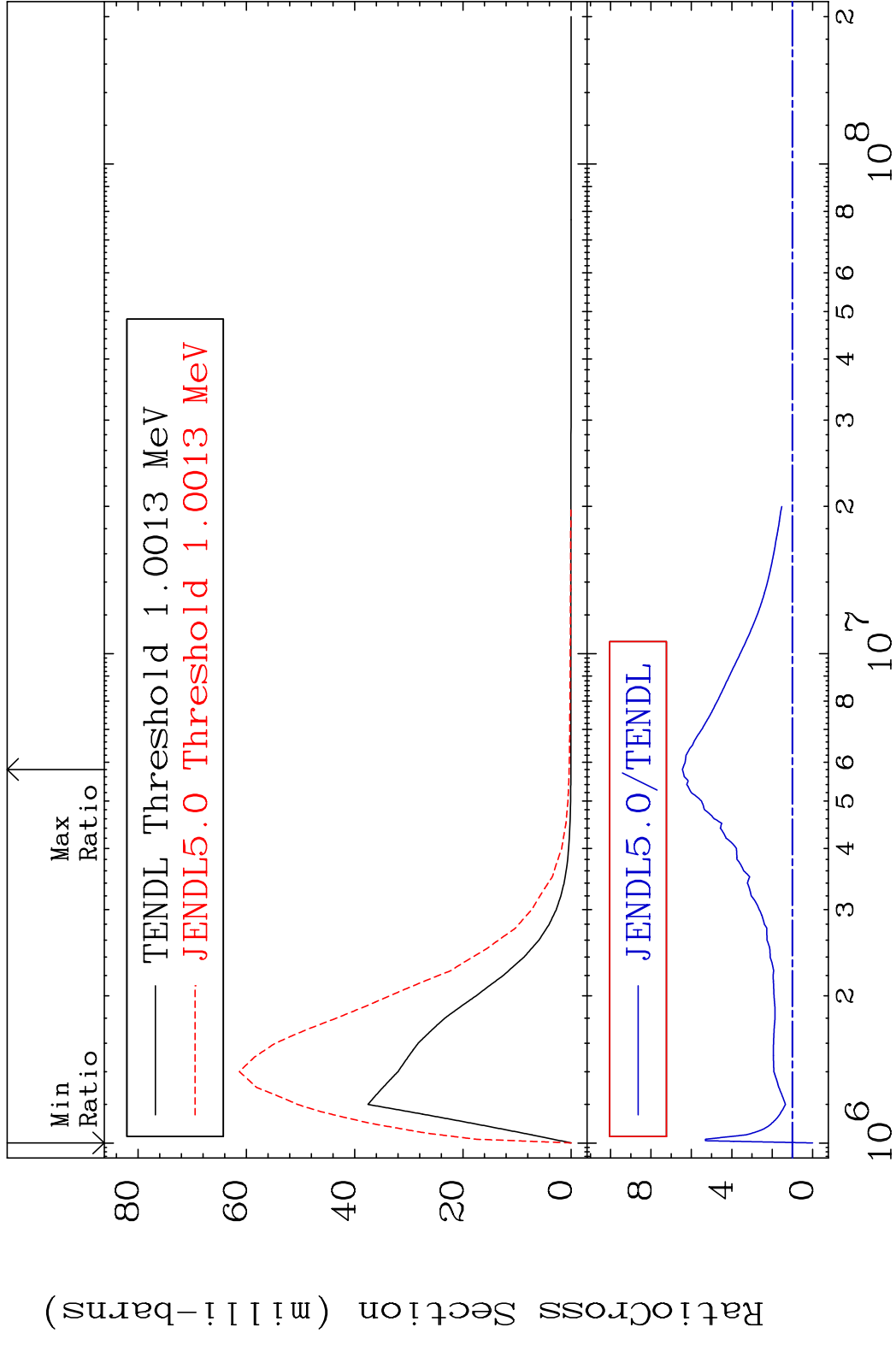
34 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 74 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %

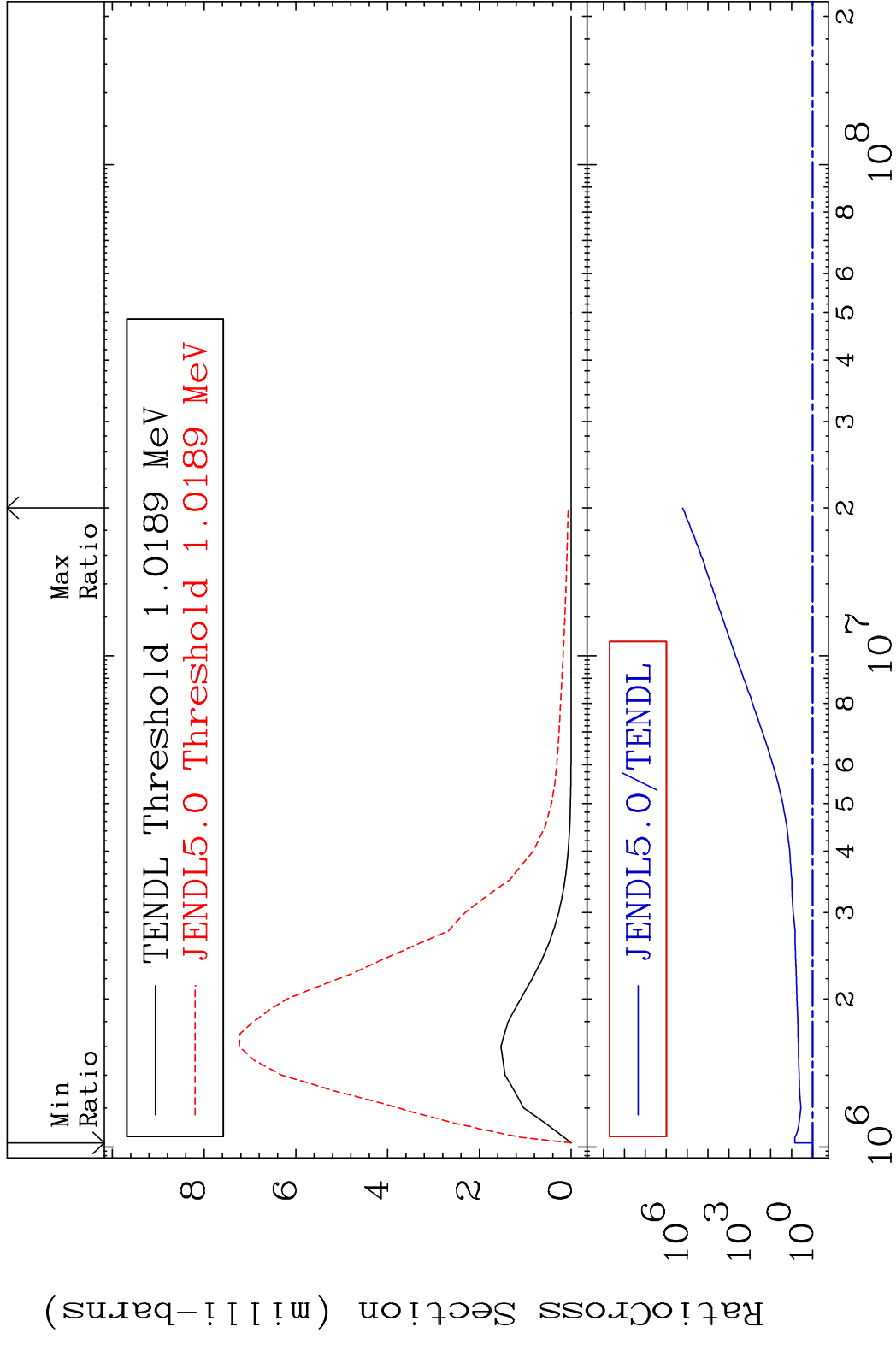


35 Incident Energy (eV) 62-Sm-149

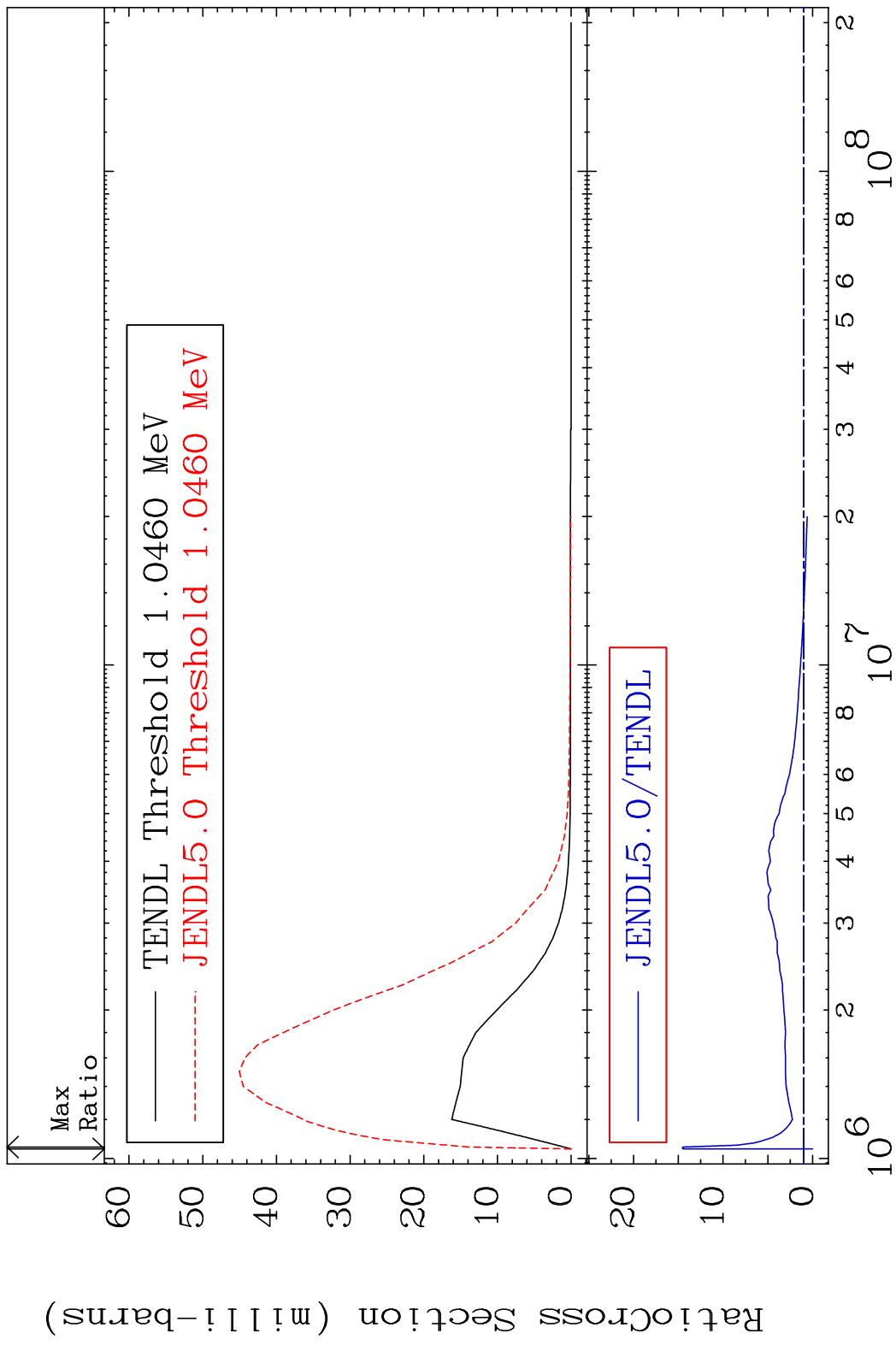
MAT 6240 MT= 75 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 544.8 %



MAT 6240 MT= 76 (n, n') Level 62-Sm-149
 Cross Section 0.000 To 9999. %

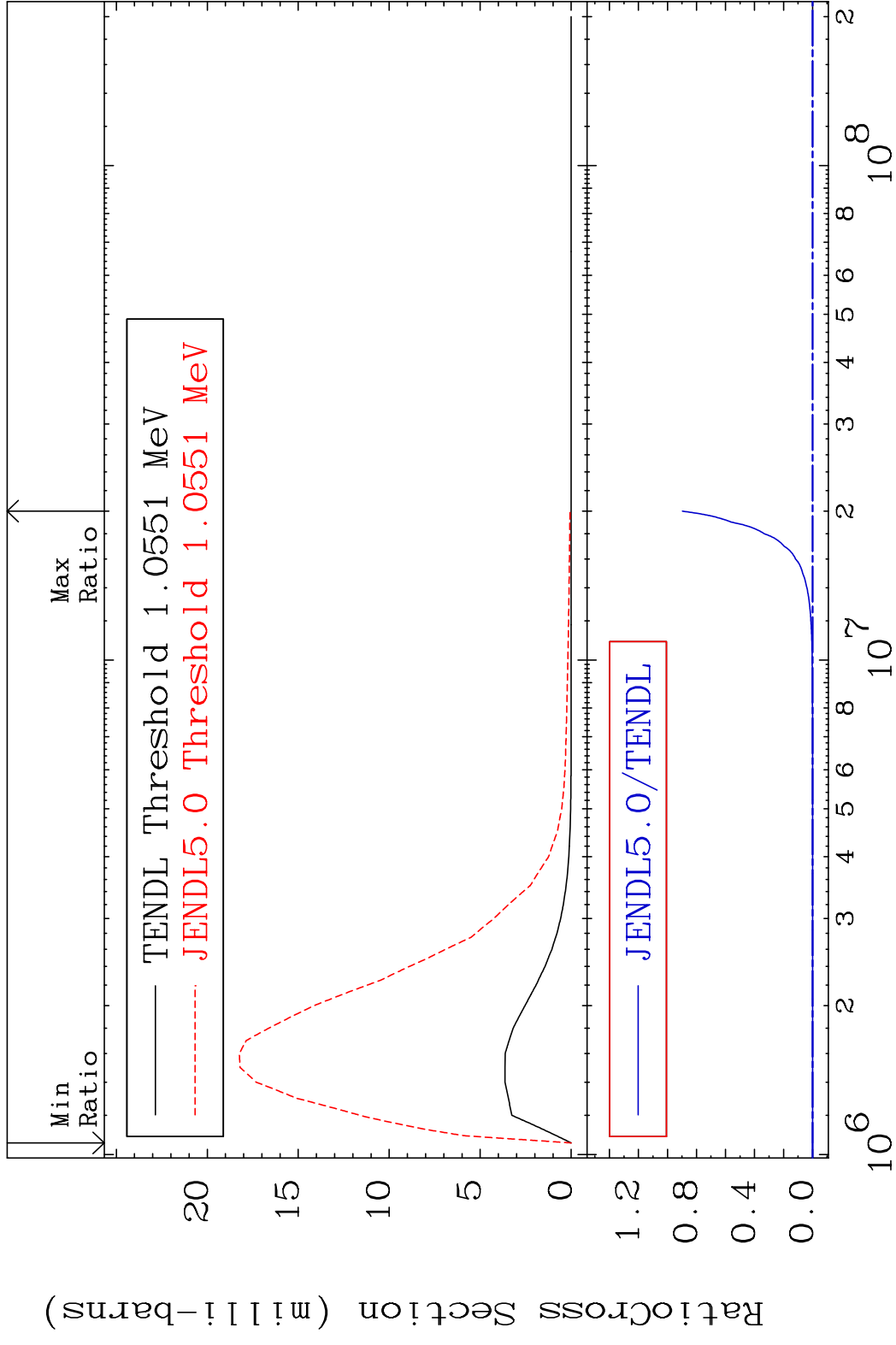


MAT 6240 MT= 77 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 1355. %



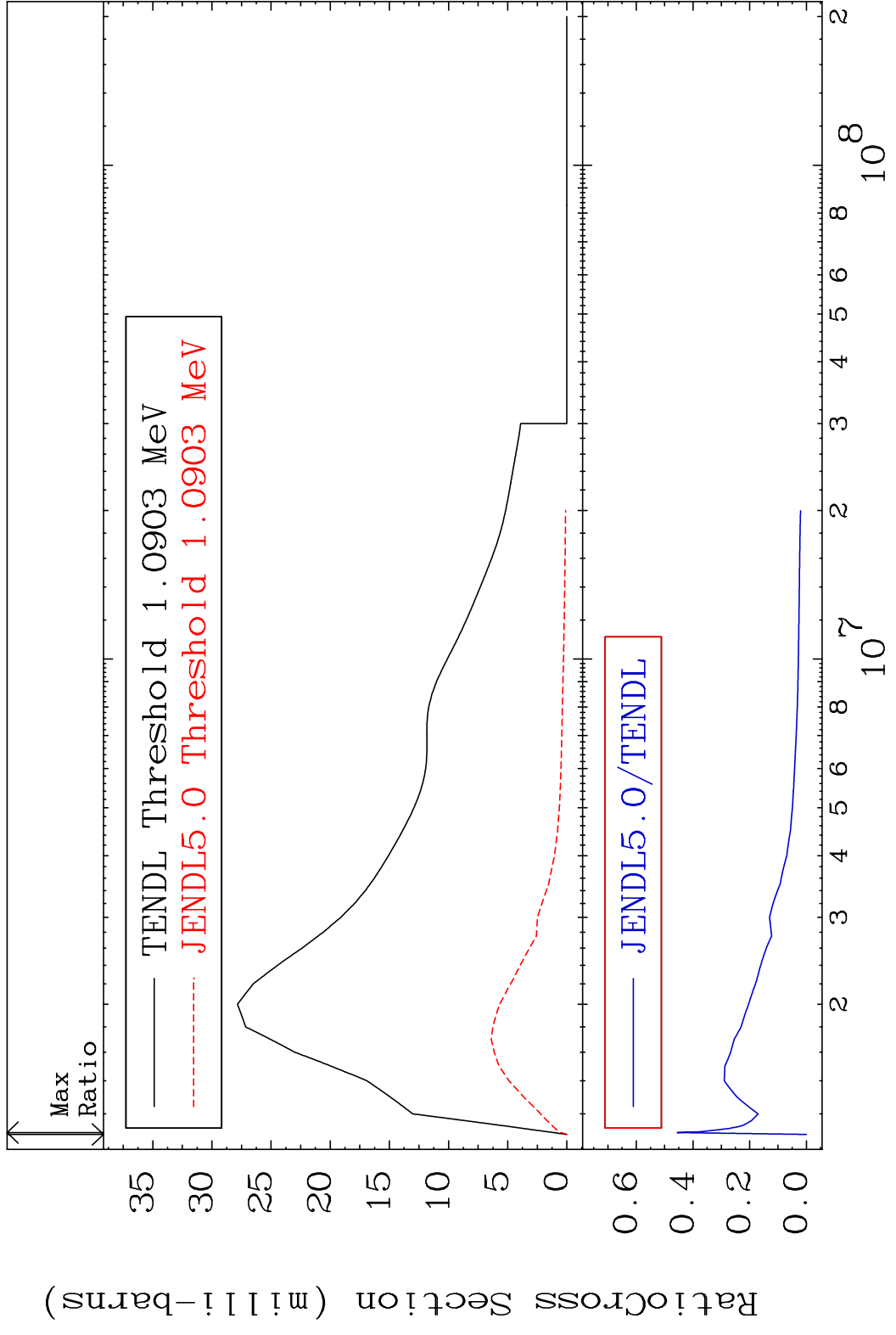
38 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 78 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



39 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 79 (n, n') Level 62-Sm-149
 Cross Section -100.0 To -54.44%

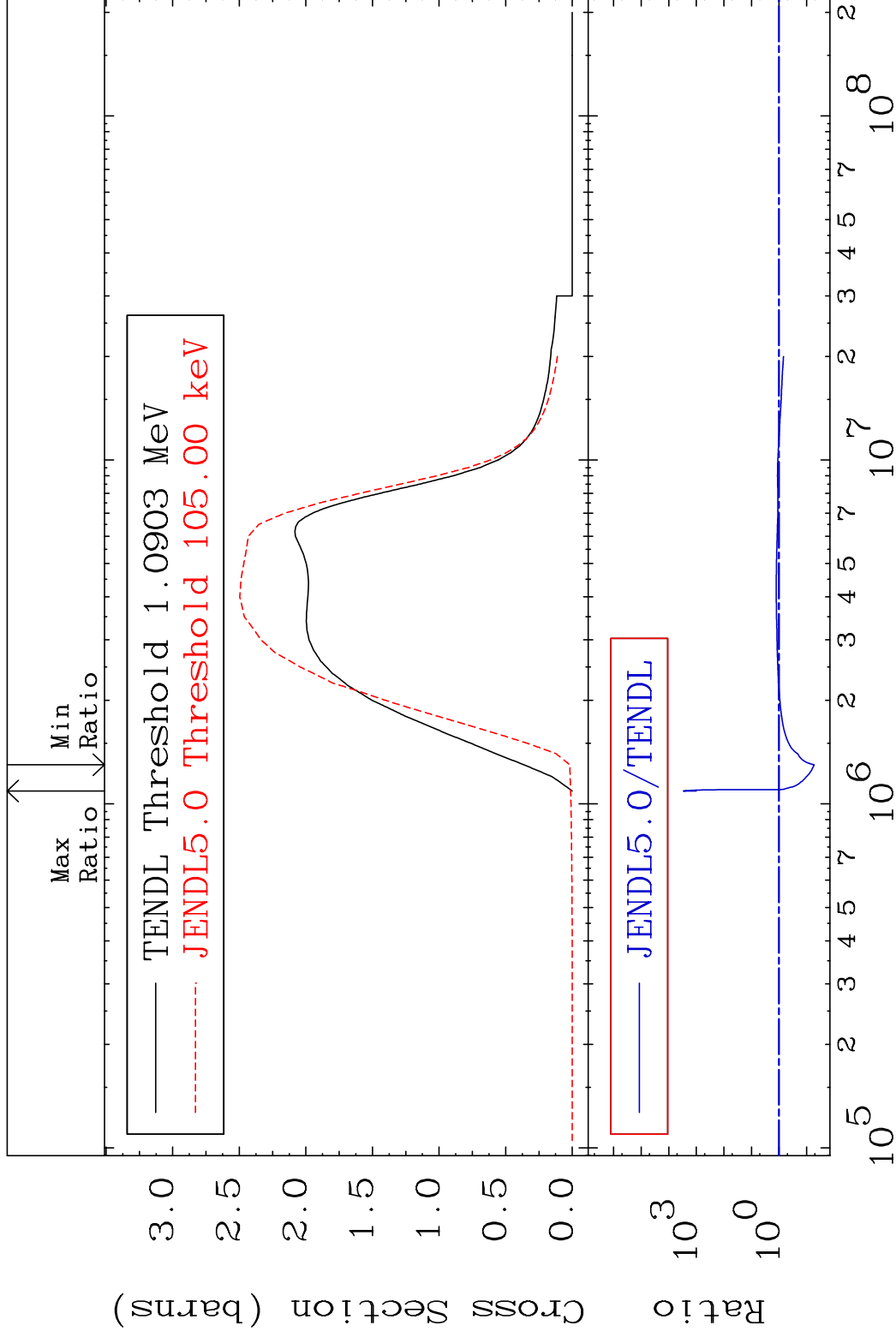


MAT 6240

(n, n') Continuum

62-Sm-149

Cross Section -94.66 To 9999. %



41

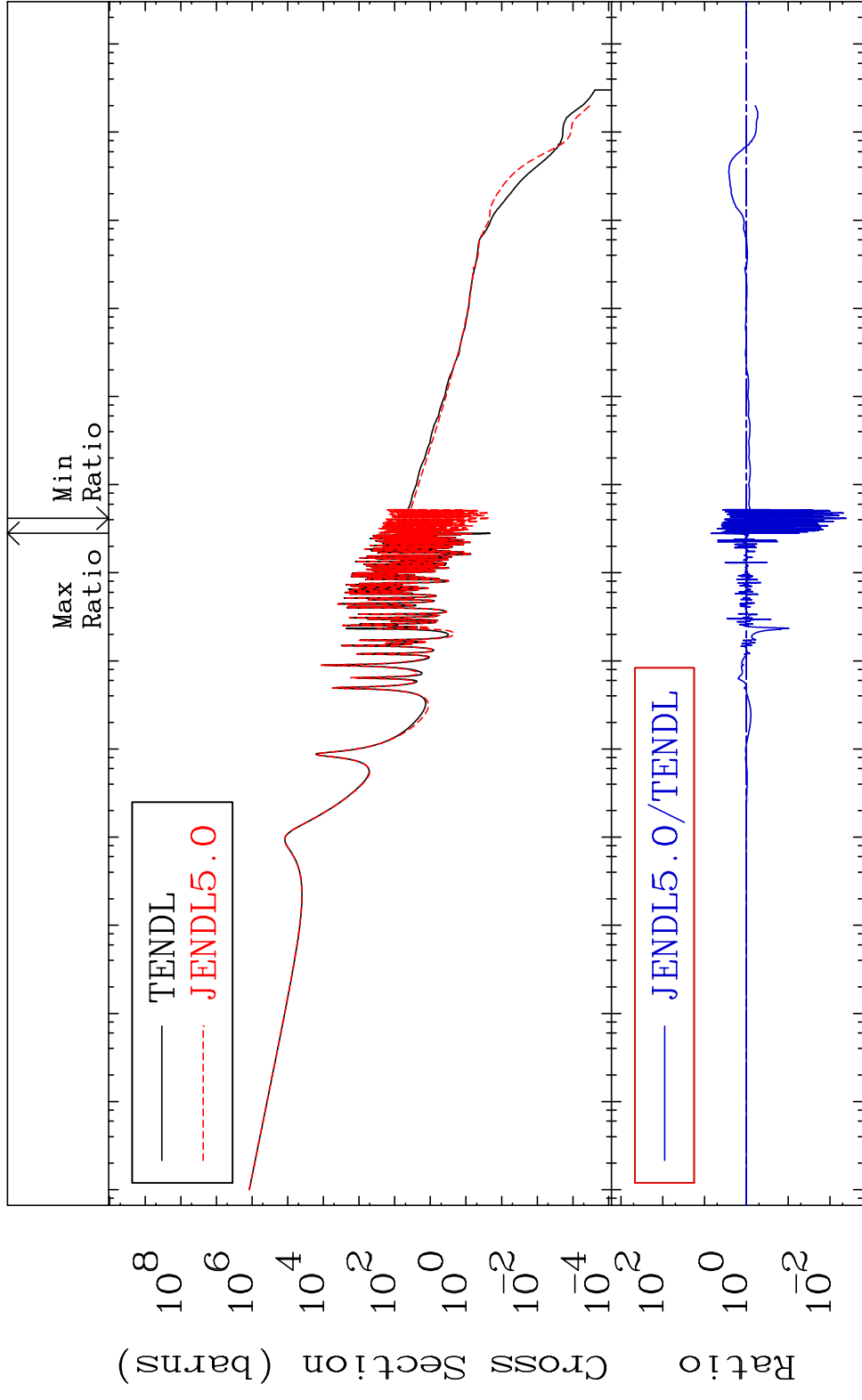
Incident Energy (eV)

62-Sm-149

MAT 6240

(n, γ)
Cross Section -99.59 To 613.9 %

62-Sm-149



42

Incident Energy (eV)

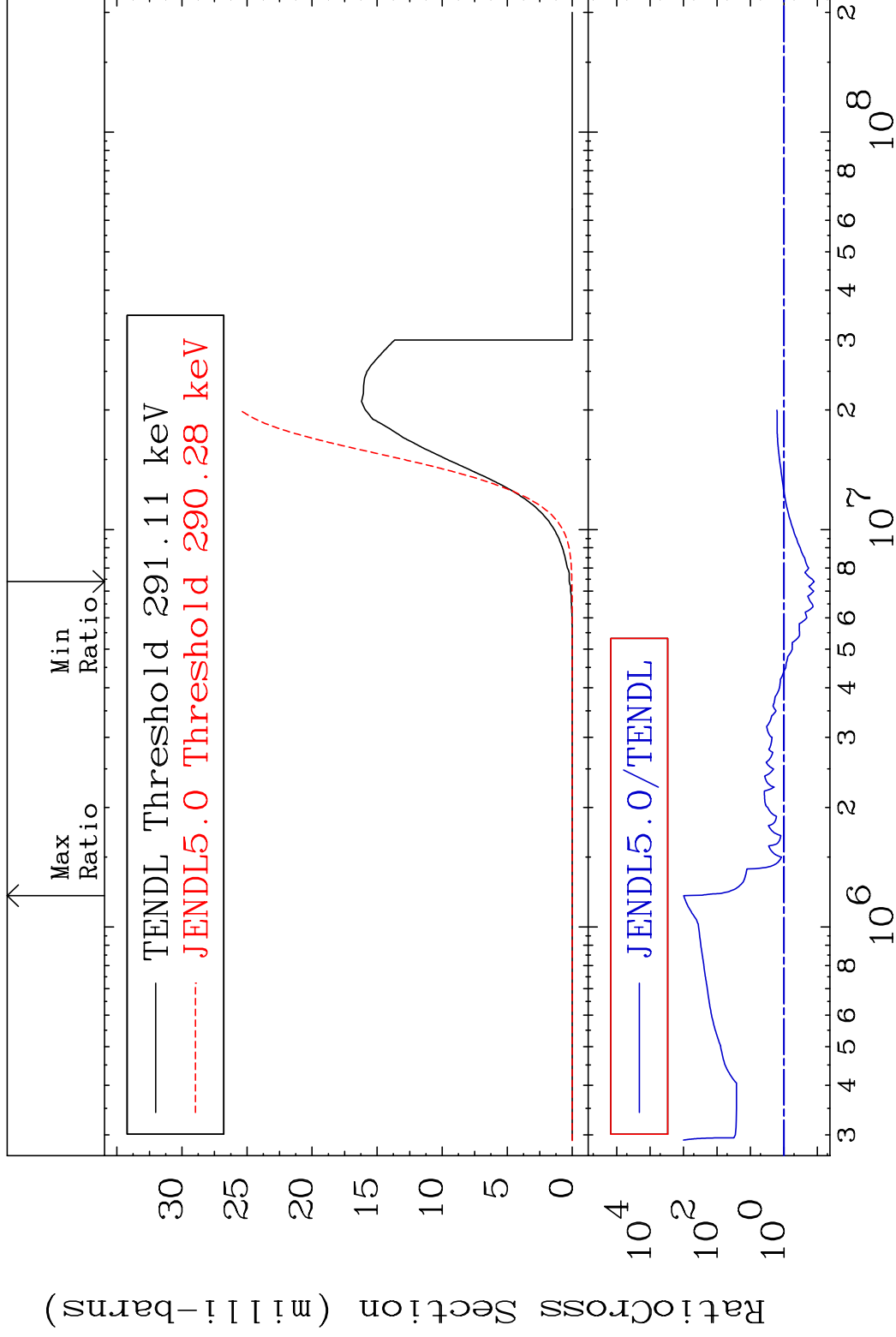
62-Sm-149

MAT 6240

(n, p)

62-Sm-149

Cross Section -87.51 To 9999. %

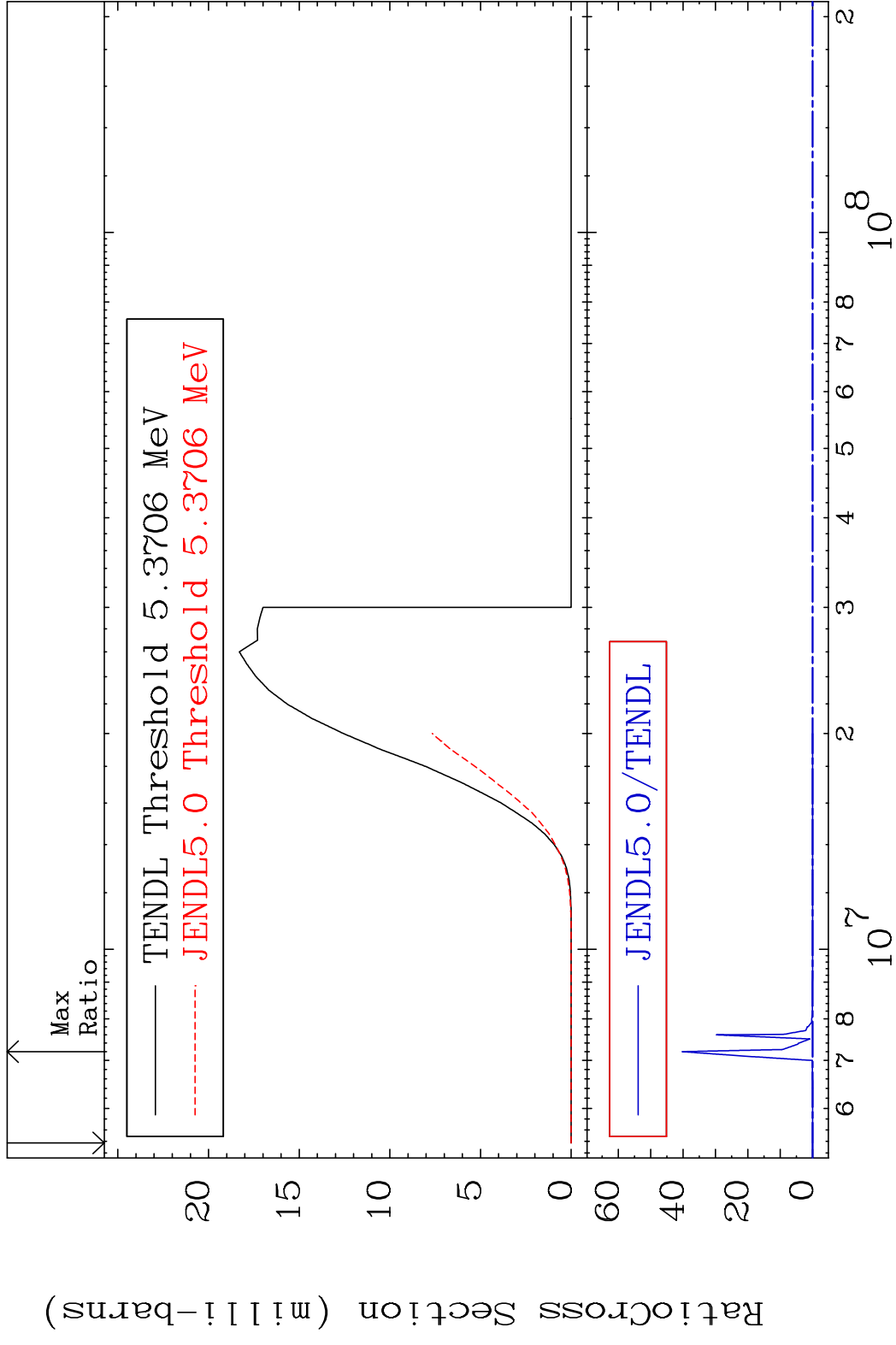


43

Incident Energy (eV)

62-Sm-149

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

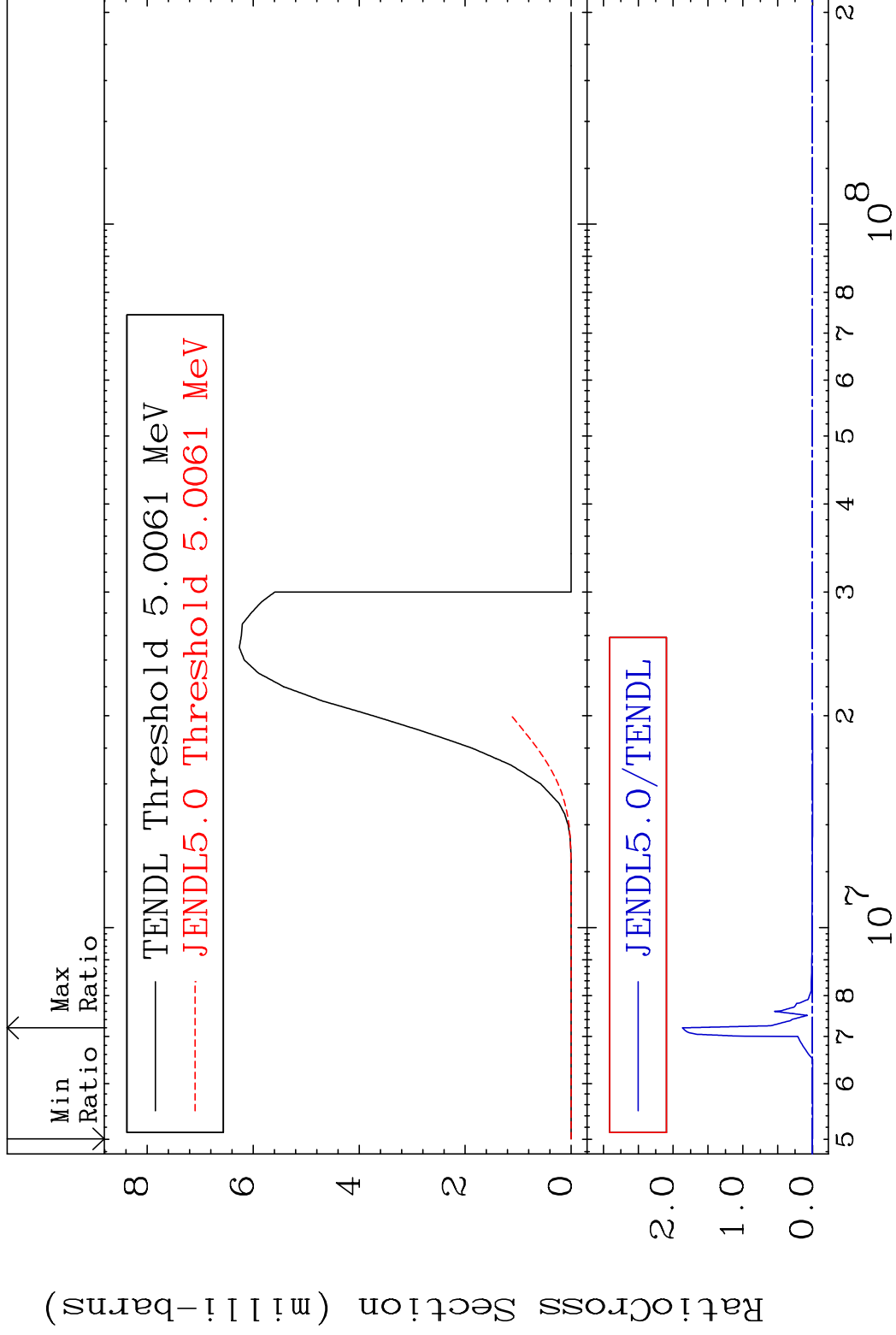


MAT 6240

(n, t)

62-Sm-149

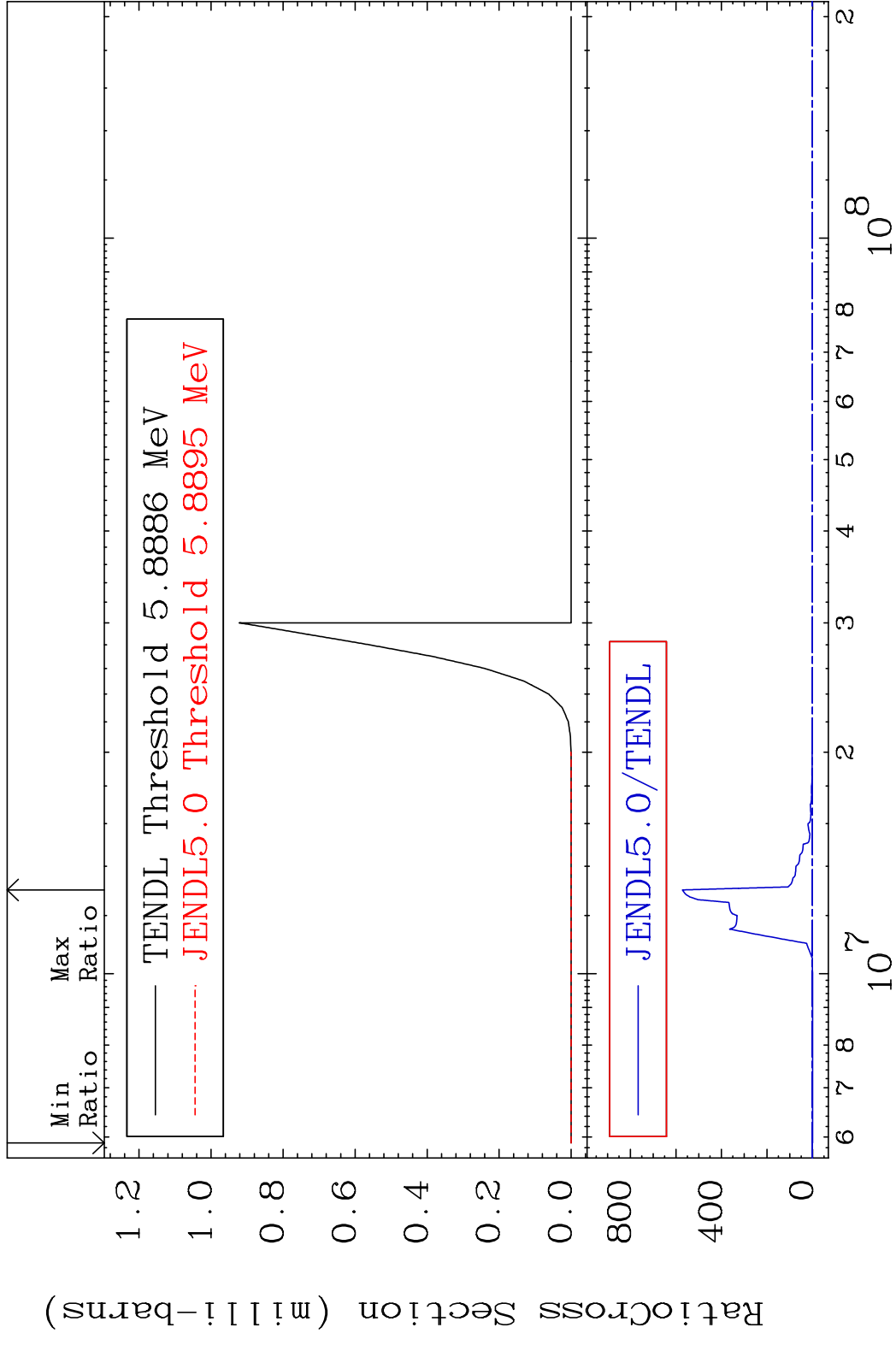
Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

62-Sm-149

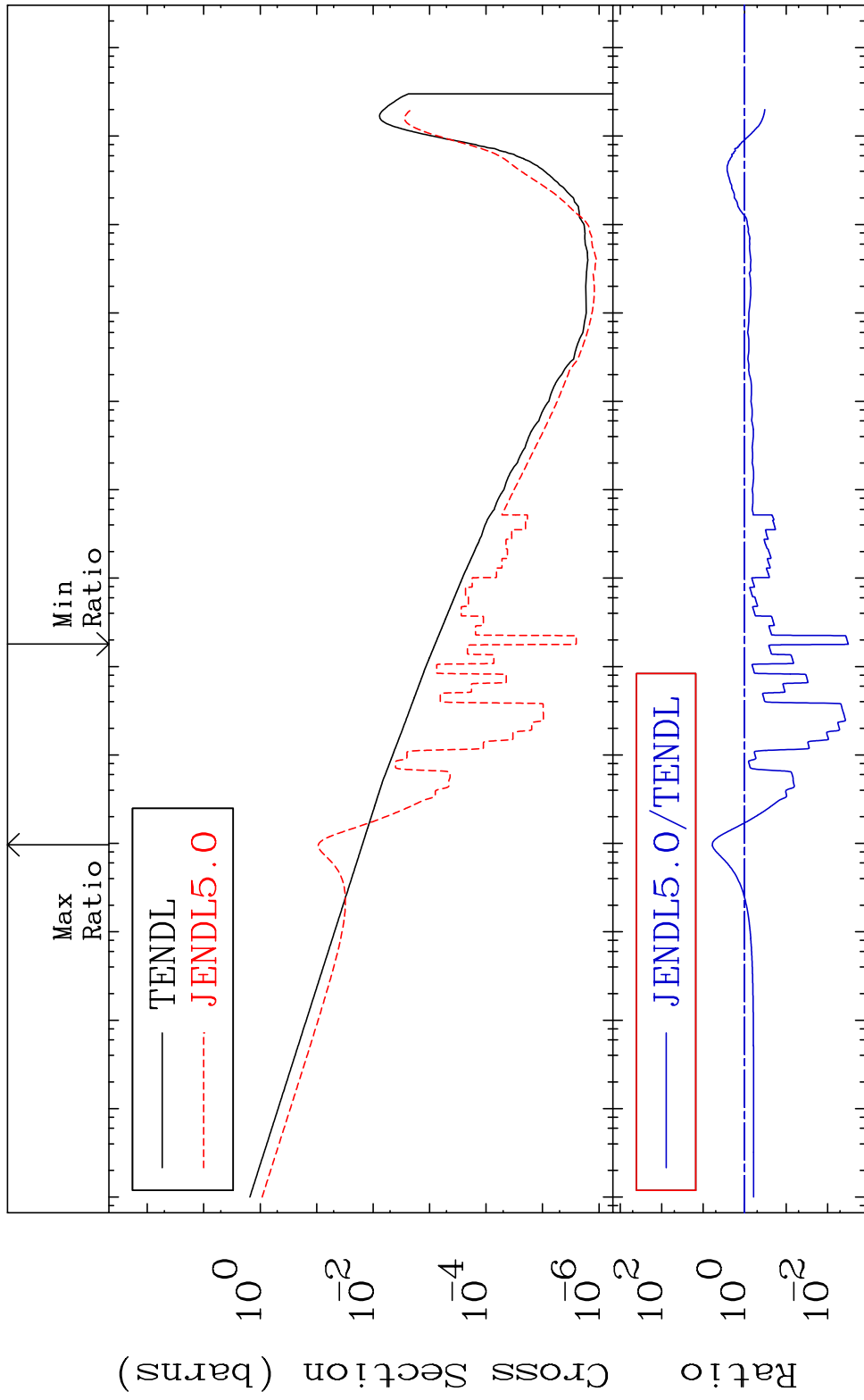


MAT 6240

(n, α)

62-Sm-149

Cross Section -99.68 To 500.5 %



Ratio

Cross Section (barns)

Incident Energy (eV)

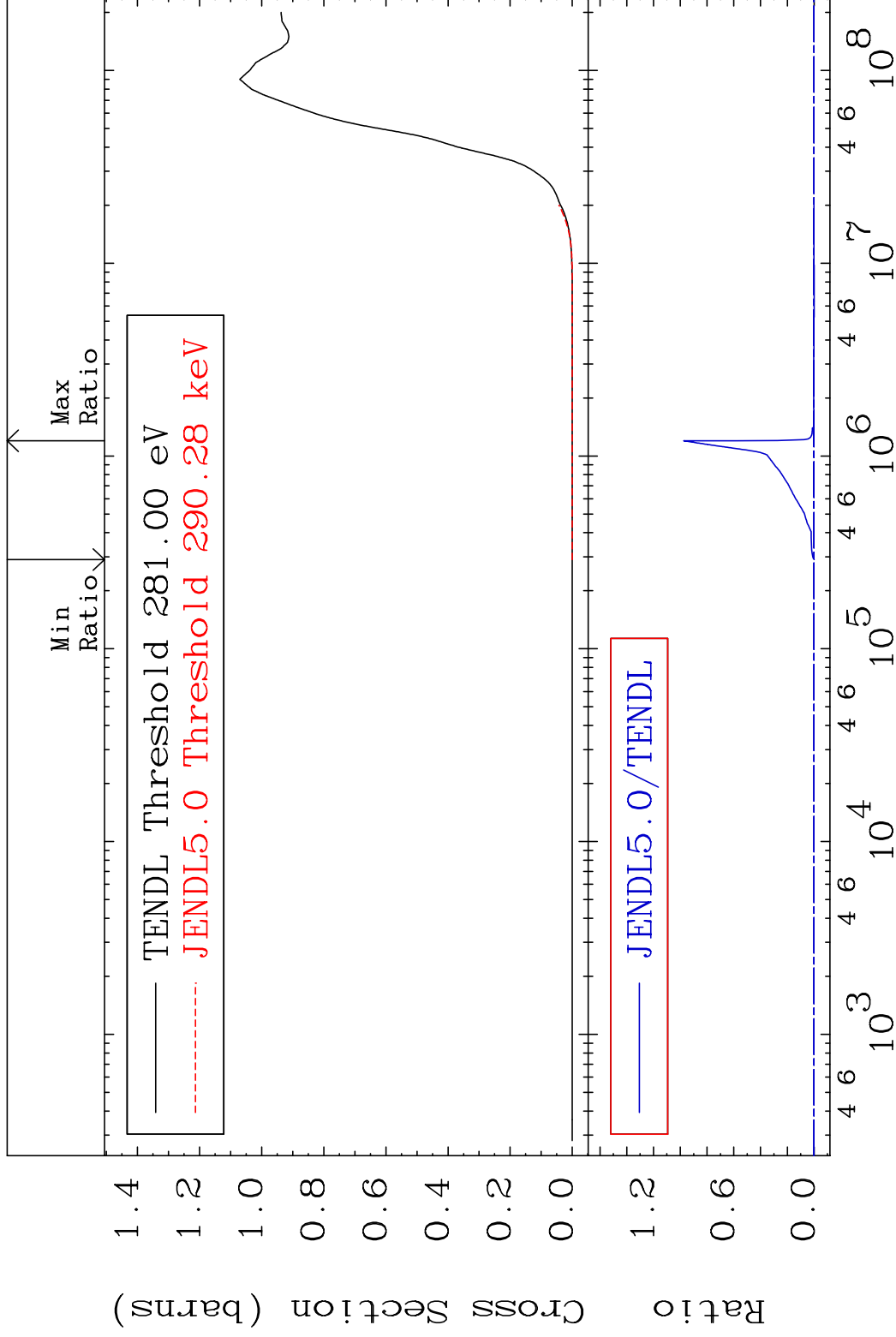
62-Sm-149

MAT 6240

Hydrogen Production

62-Sm-149

Cross Section -100.0 To 9999. %

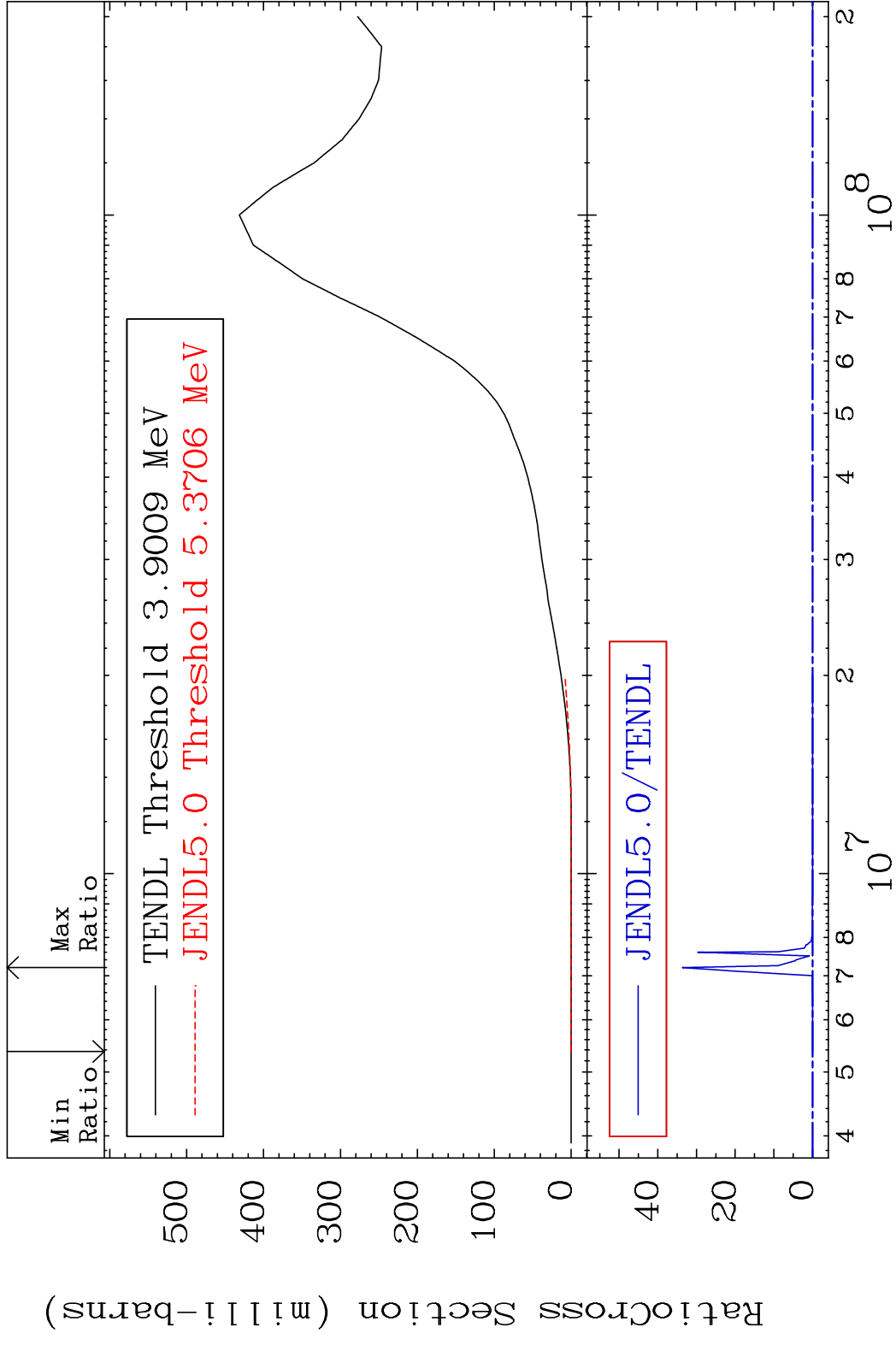


48

Incident Energy (eV)

62-Sm-149

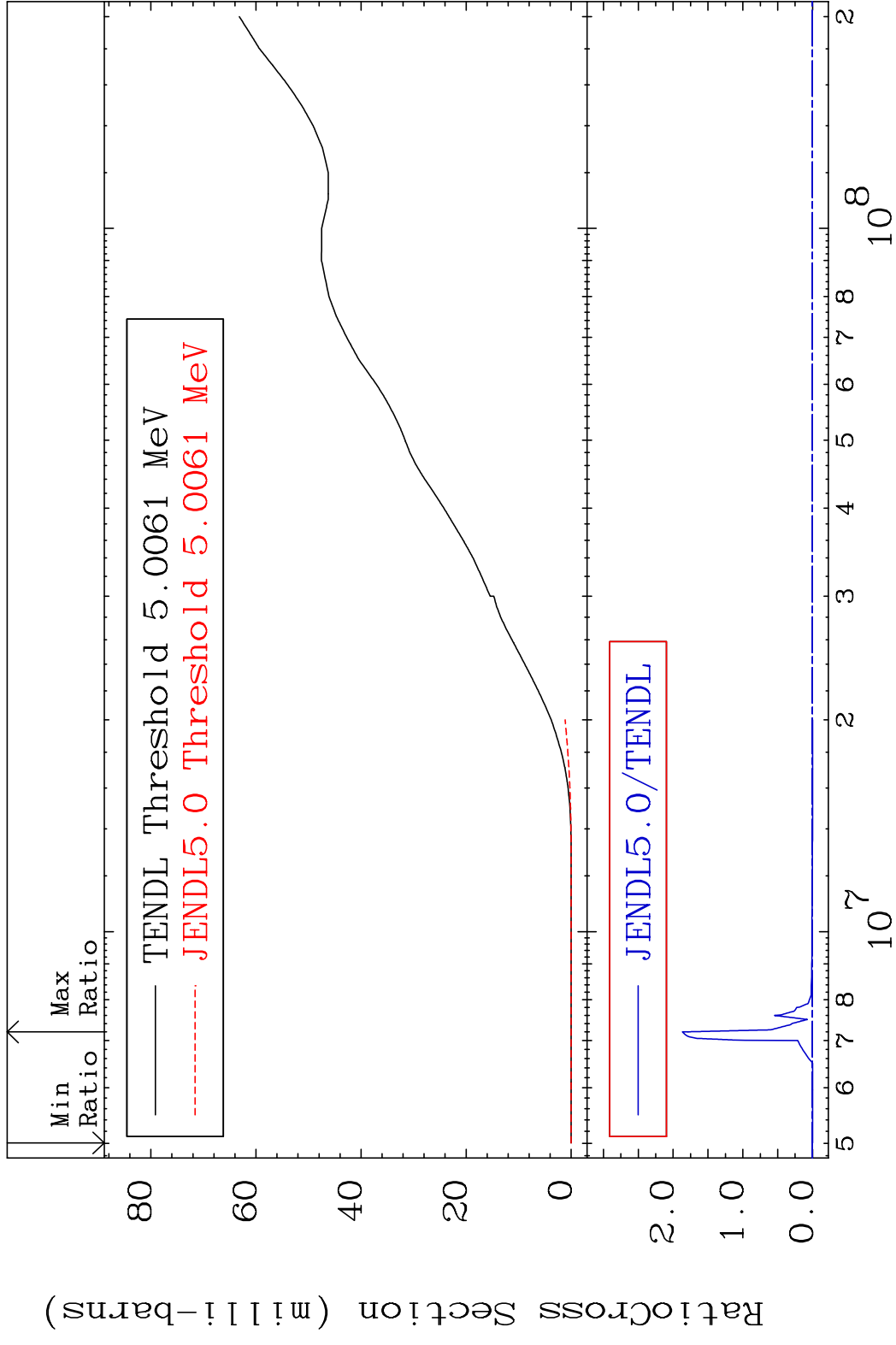
MAT 6240 Deuterium Production 62-Sm-149
 Cross Section -100.0 To 9999. %



49 Incident Energy (eV) 62-Sm-149

MAT 6240

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

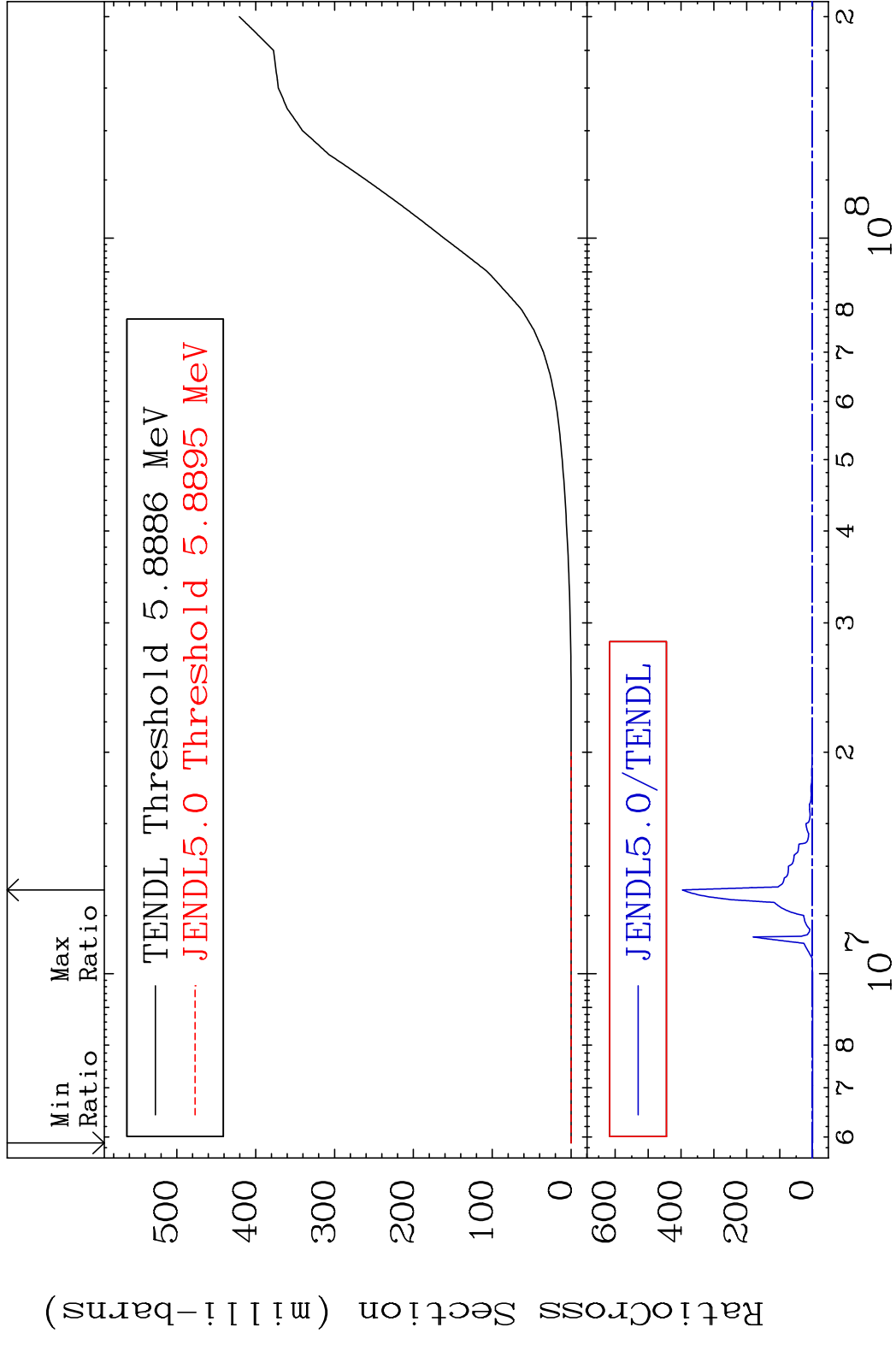


50

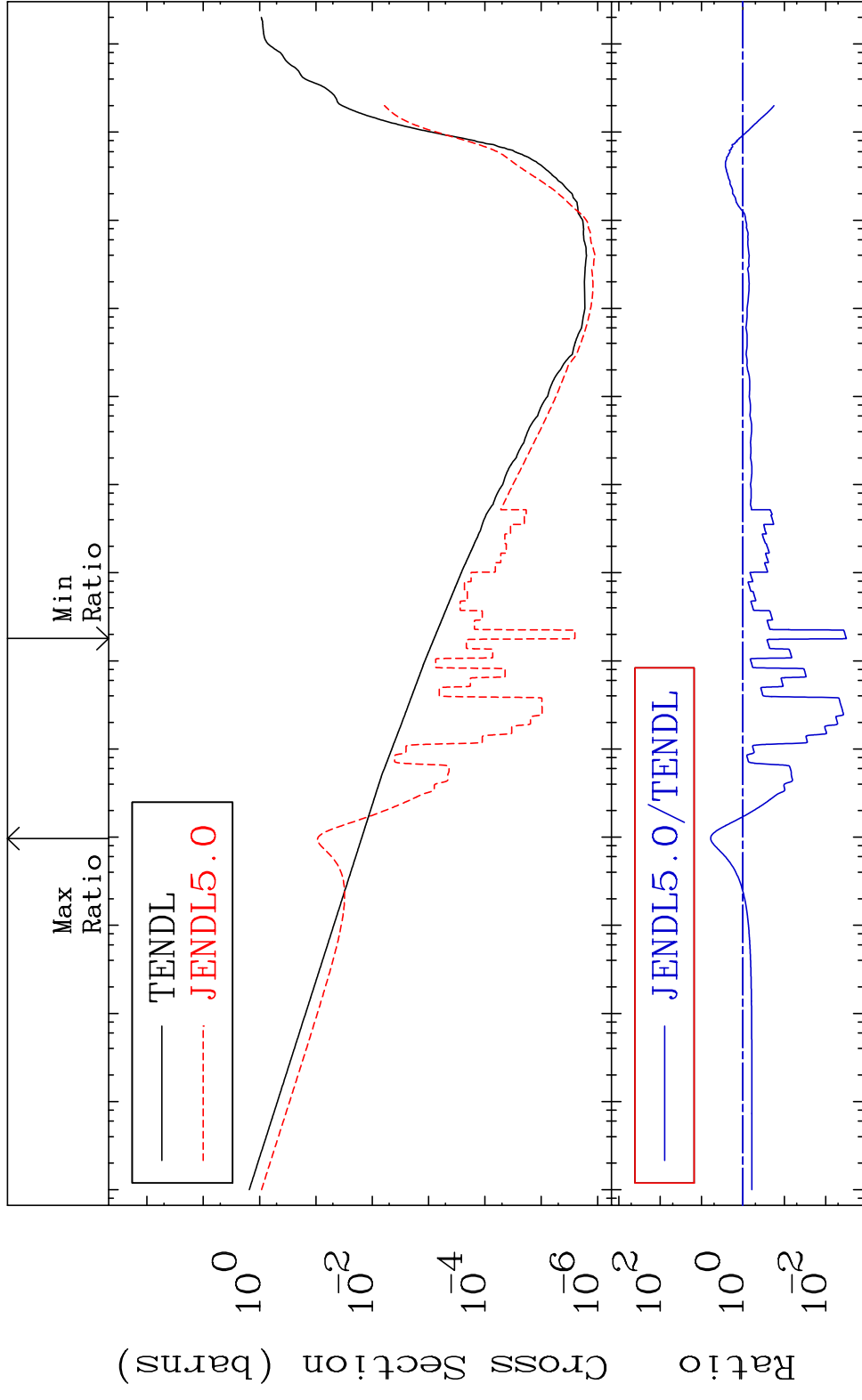
Incident Energy (eV)

62-Sm-149

Cross Section -100.0 To 9999. %

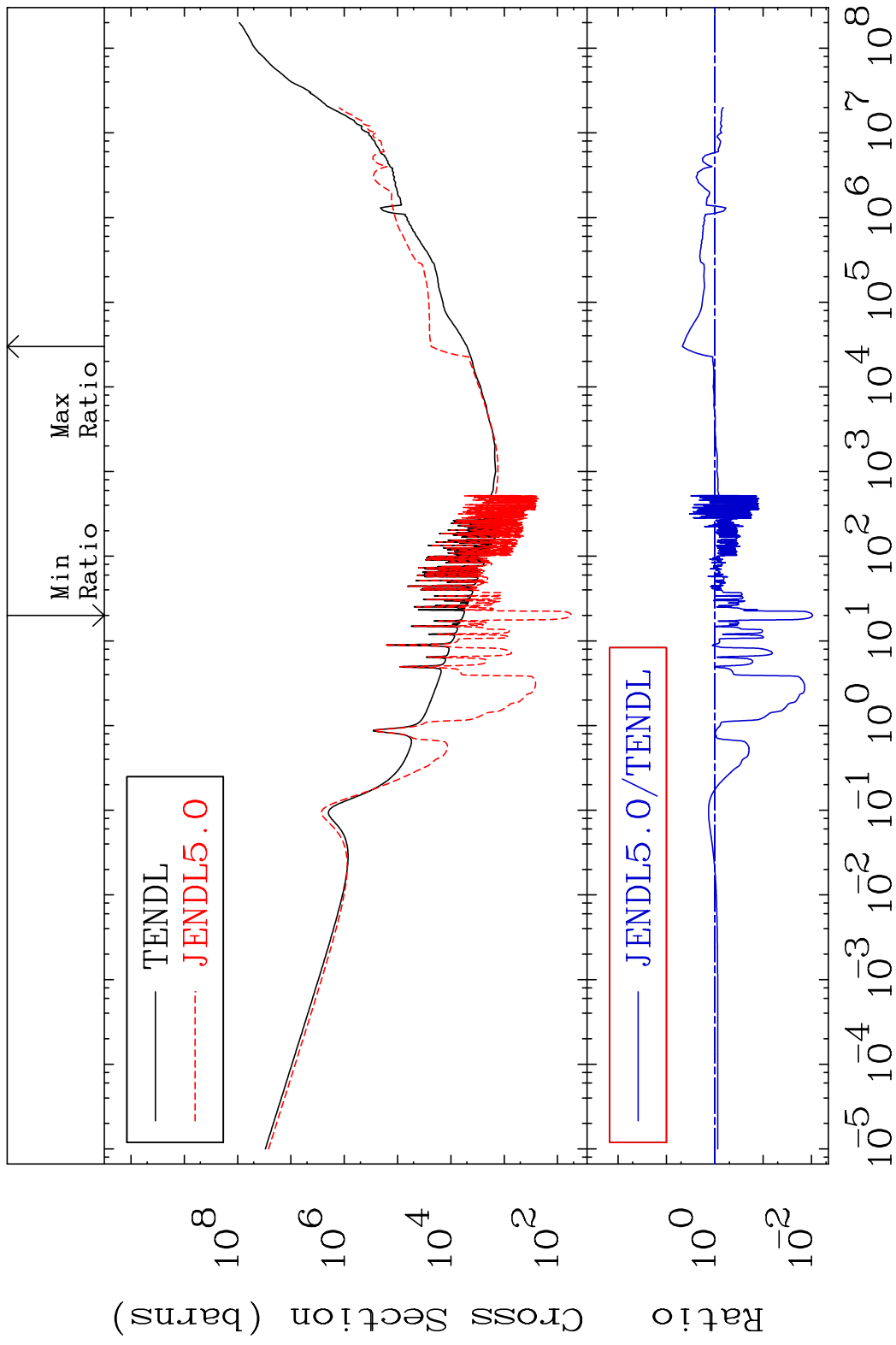


MAT 6240 He-4 Production 62-Sm-149
 Cross Section -99.68 To 500.5 %



52 Incident Energy (eV) 62-Sm-149

MAT 6240 Kerma total (eV-barns) 62-Sm-149
 Cross Section -99.05 To 369.8 %



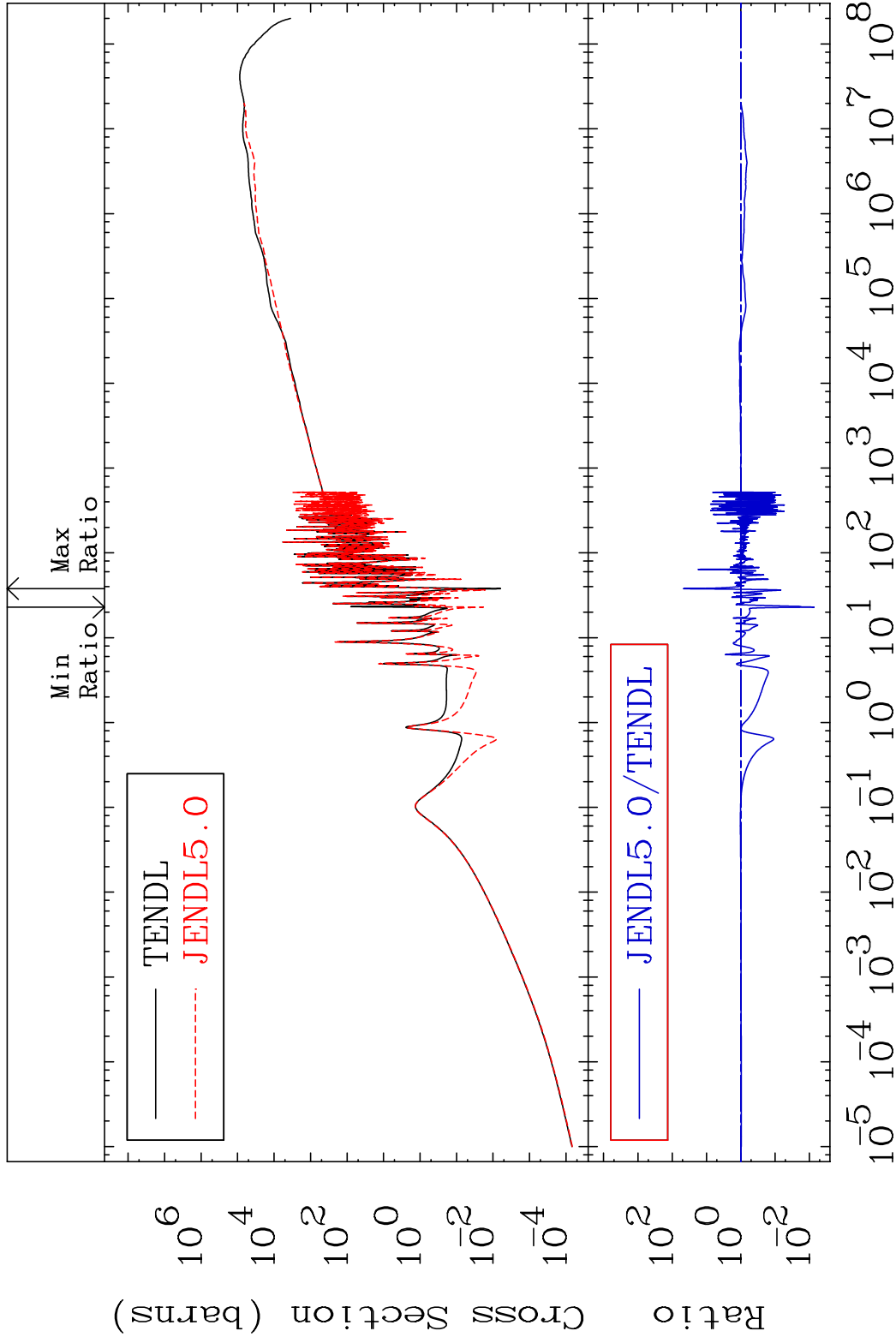
MAT 6240

Kerma elastic

62-Sm-149

Cross Section

-99.27 To 4538. %

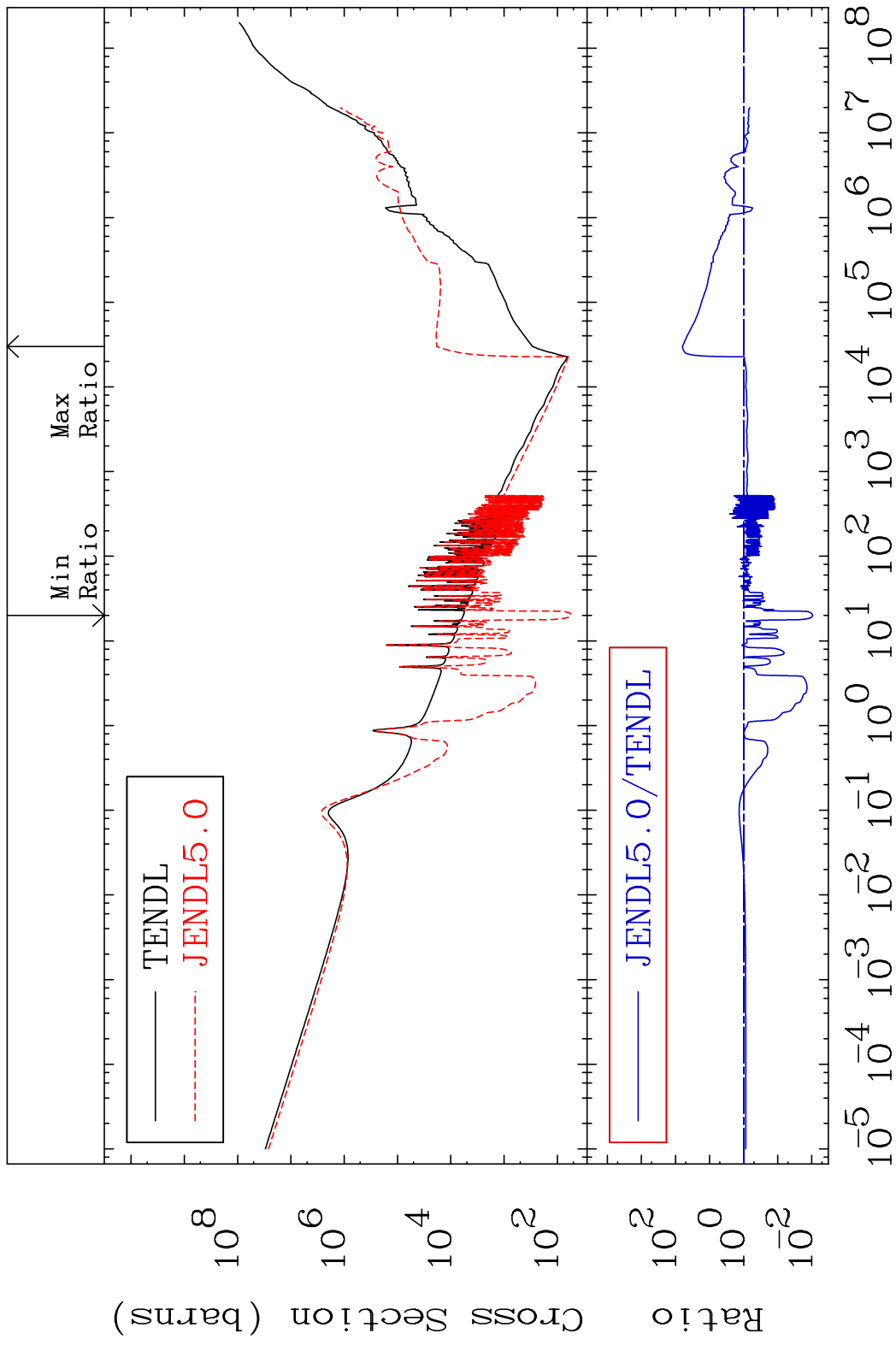


54

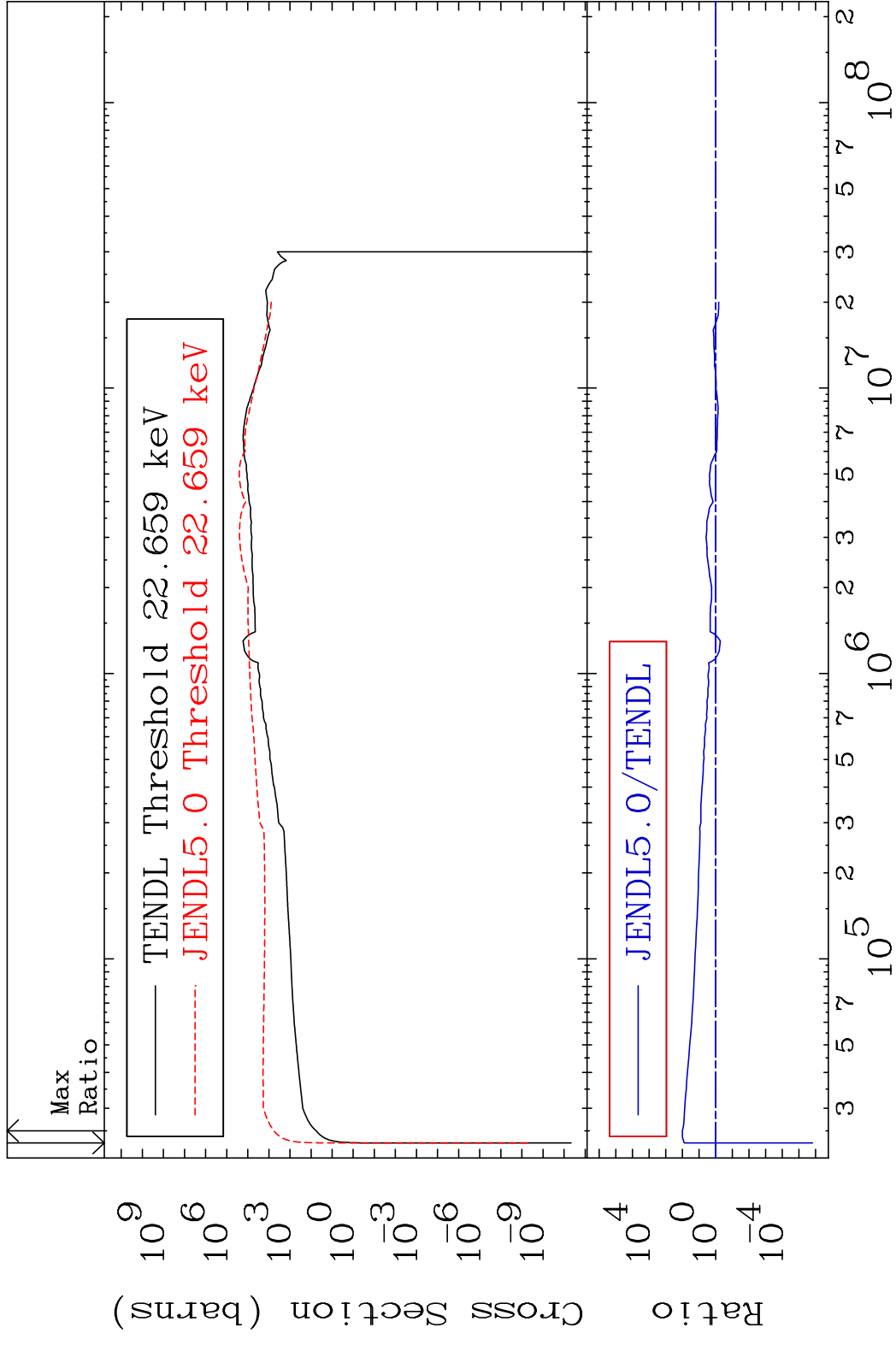
Incident Energy (eV)

62-Sm-149

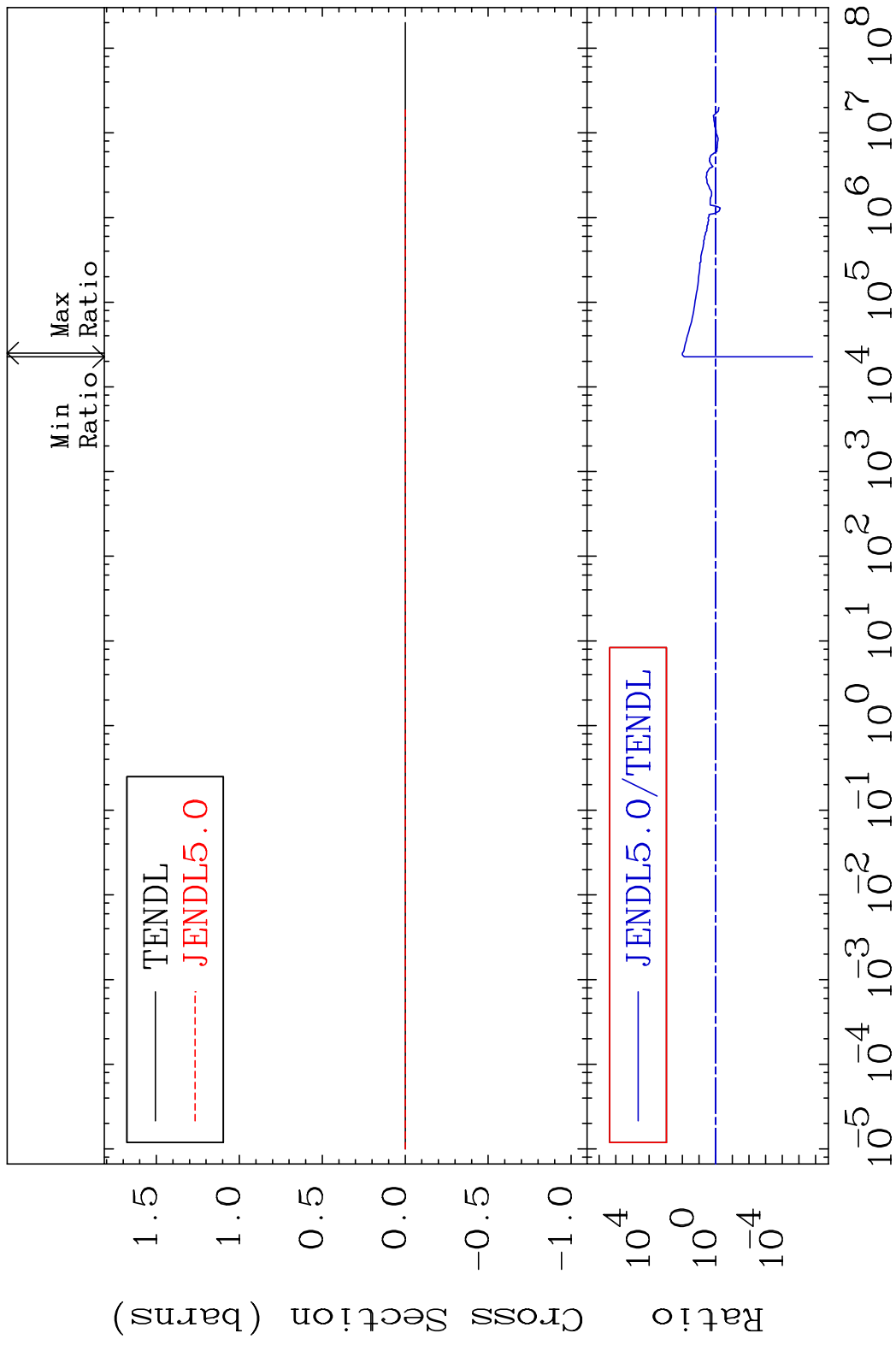
MAT 6240 Kerma non-elastic (all but mt2) 62-Sm-149
 Cross Section -99.05 To 6184. %



MAT 6240 Kerma inelastic (mt51-91) 62-Sm-149
 Cross Section -100.0 To 9999. %

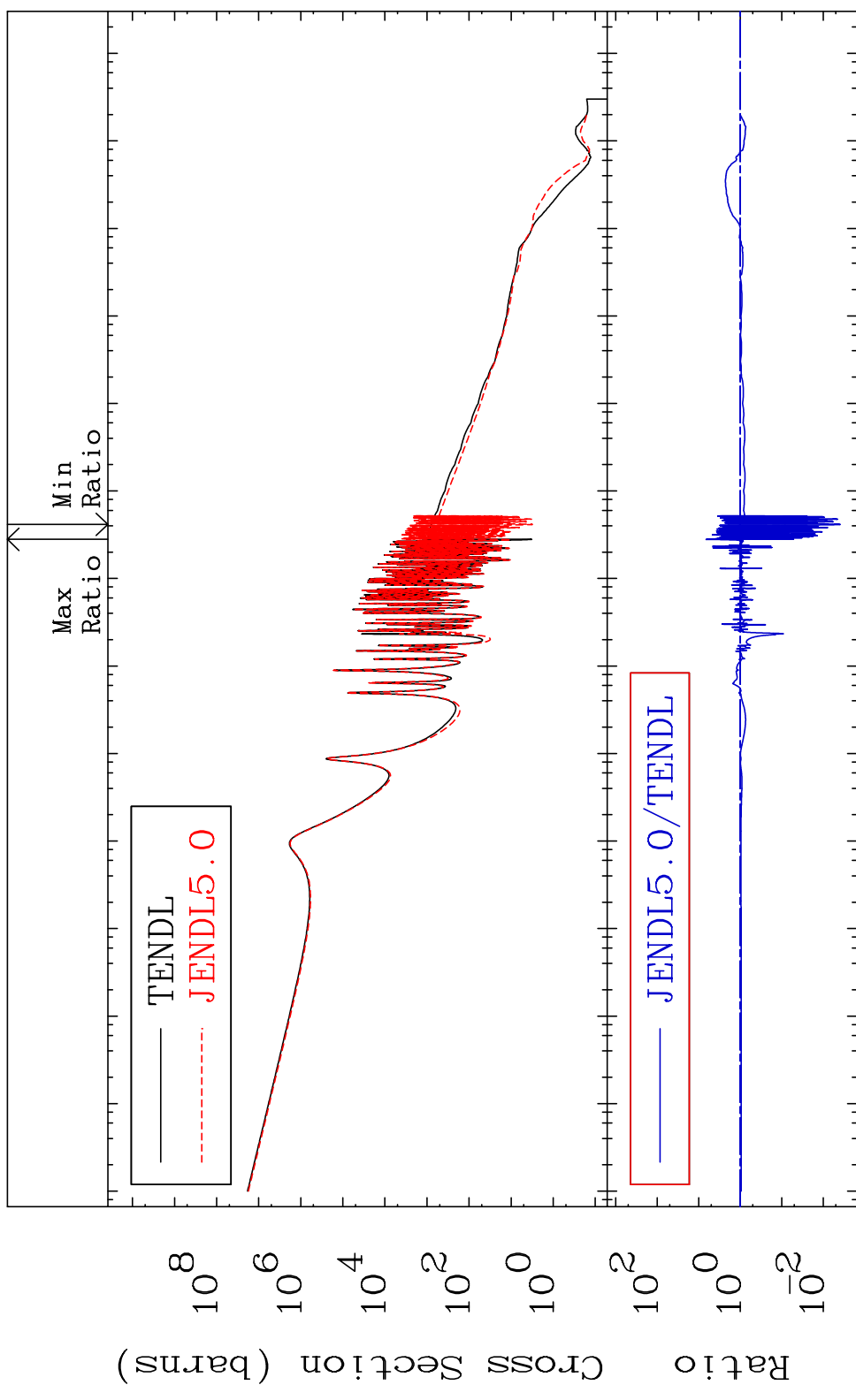


MAT 6240 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -149
 Cross Section -100.0 To 9999. %



MAT 6240

Kerma capture (mt102) 62-Sm-149
Cross Section -99.61 To 577.8 %

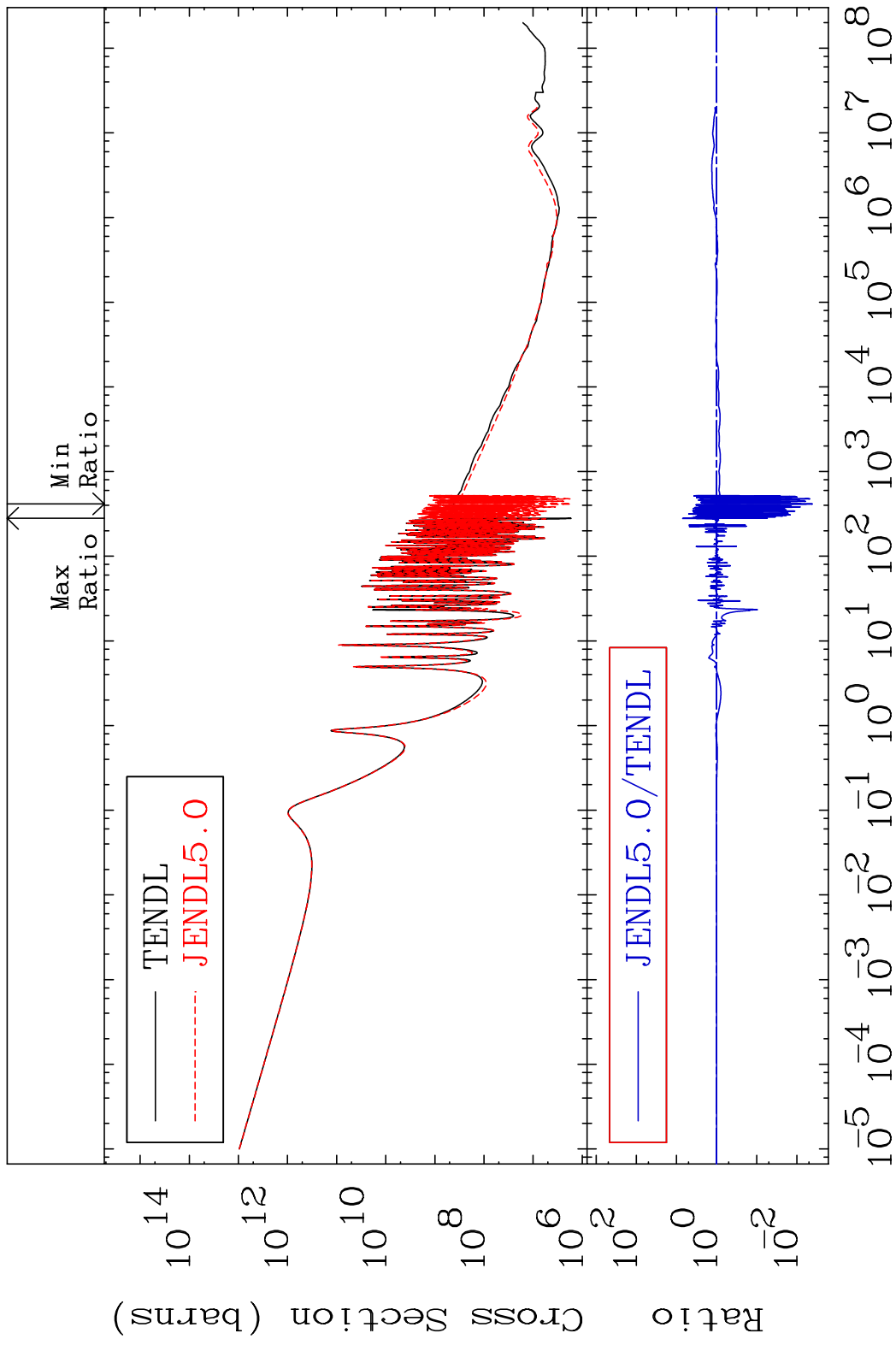


Ratio
Cross Section (barns)

10⁸
10⁶
10⁴
10²
10⁰
10⁻²

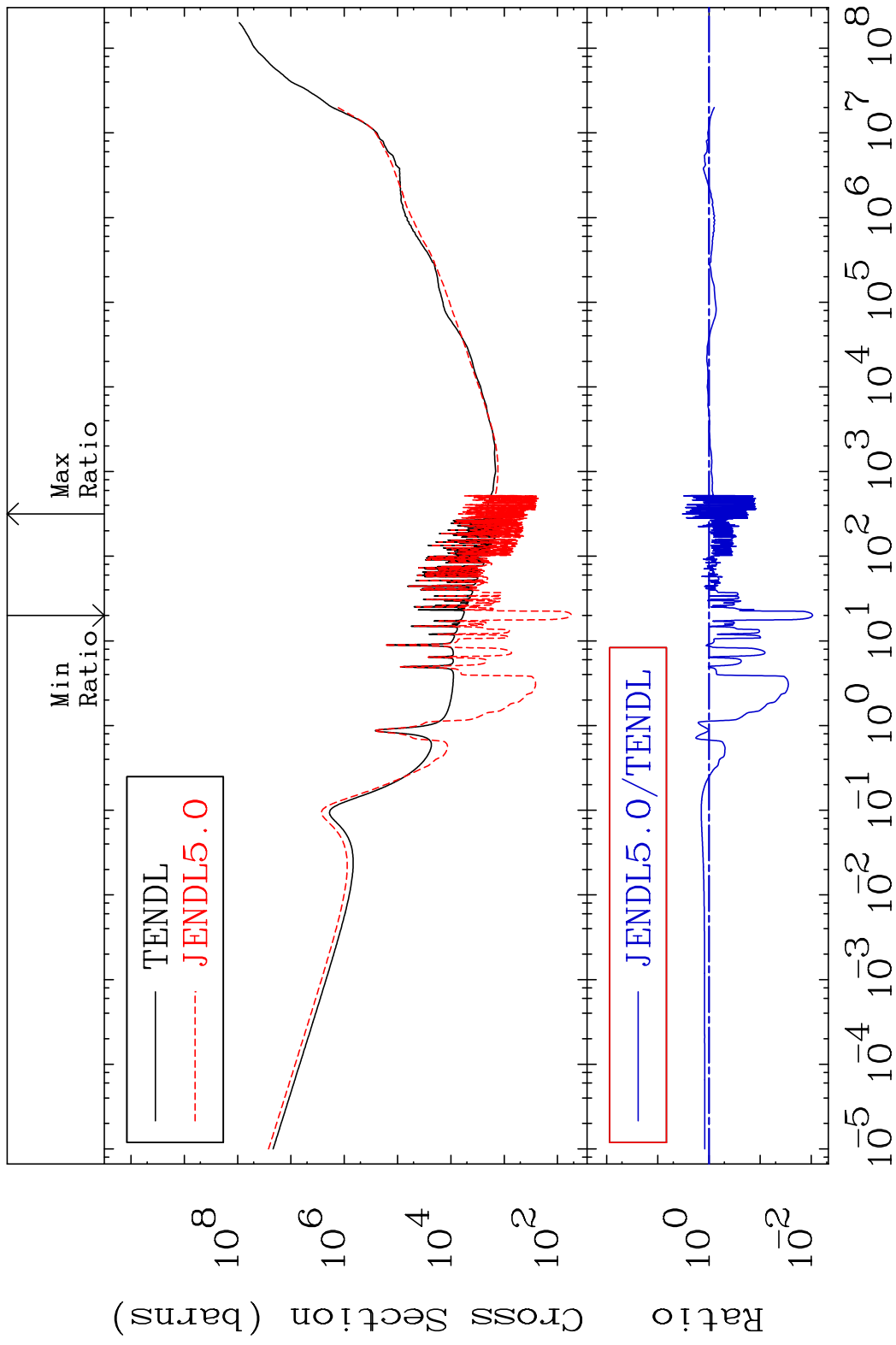
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 6240 Total photon (eV-barns) 62-Sm-149
 Cross Section -99.59 To 611.7 %



59 Incident Energy (eV) 62-Sm-149

MAT 6240 Total kinematic kerma (high limit) 62-Sm-149
Cross Section -99.05 To 231.5 %

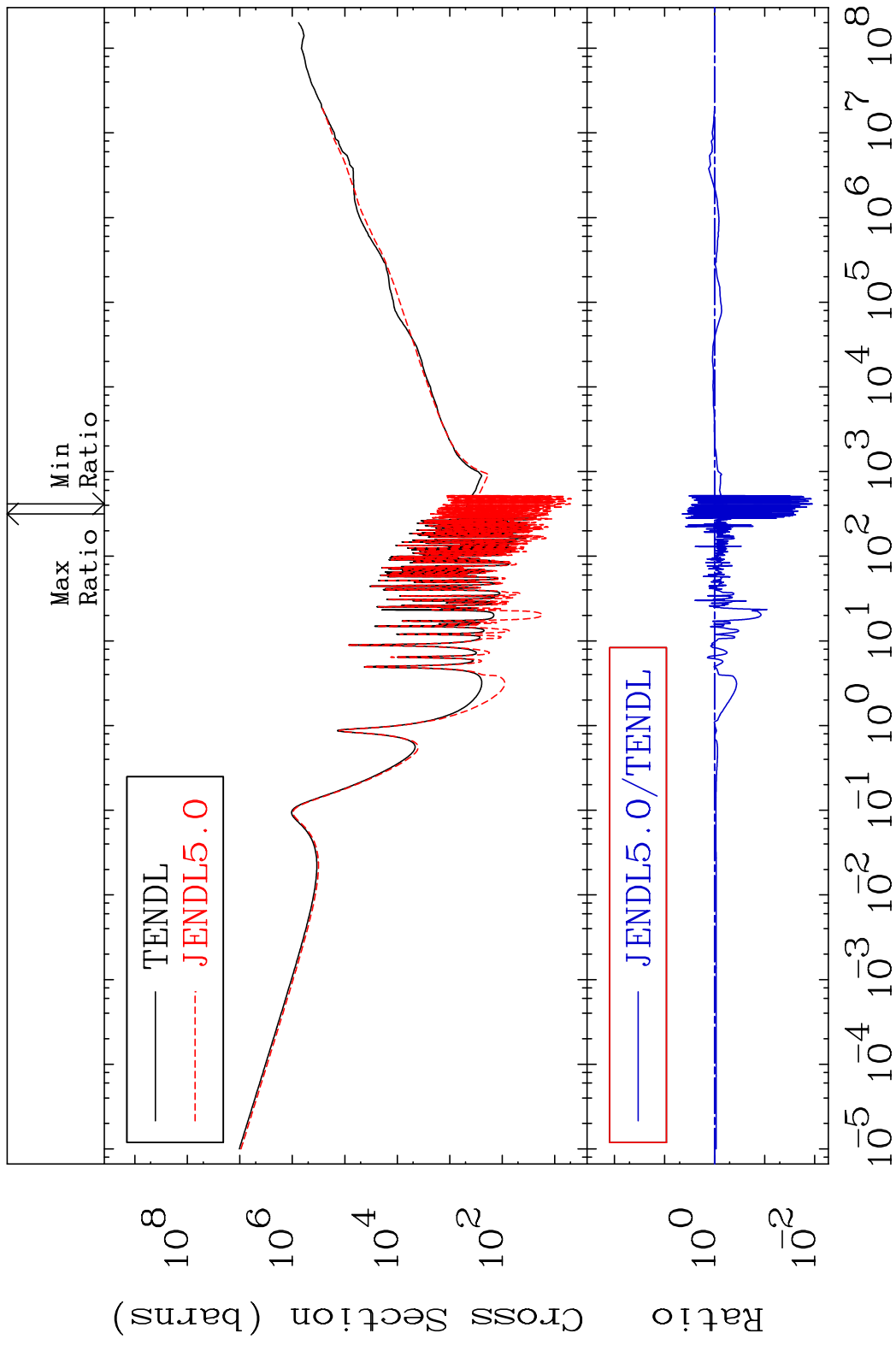


60

Incident Energy (eV)

62-Sm-149

MAT 6240 Dpa total (eV-barns) 62-Sm-149
Cross Section -98.90 To 340.4 %



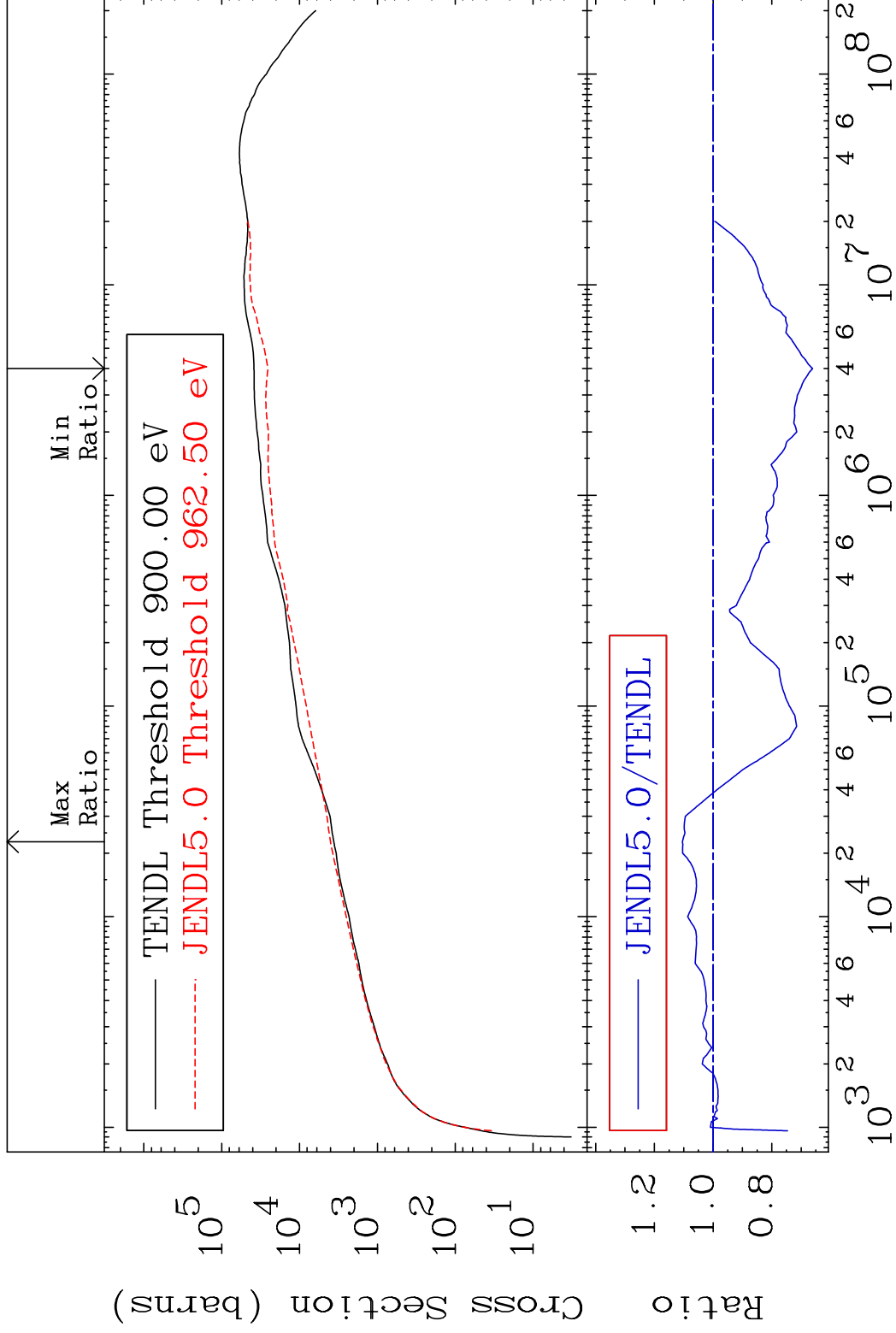
MAT 6240

Dpa elastic (mt2)

62-Sm-149

Cross Section

-33.88 To 10.47 %

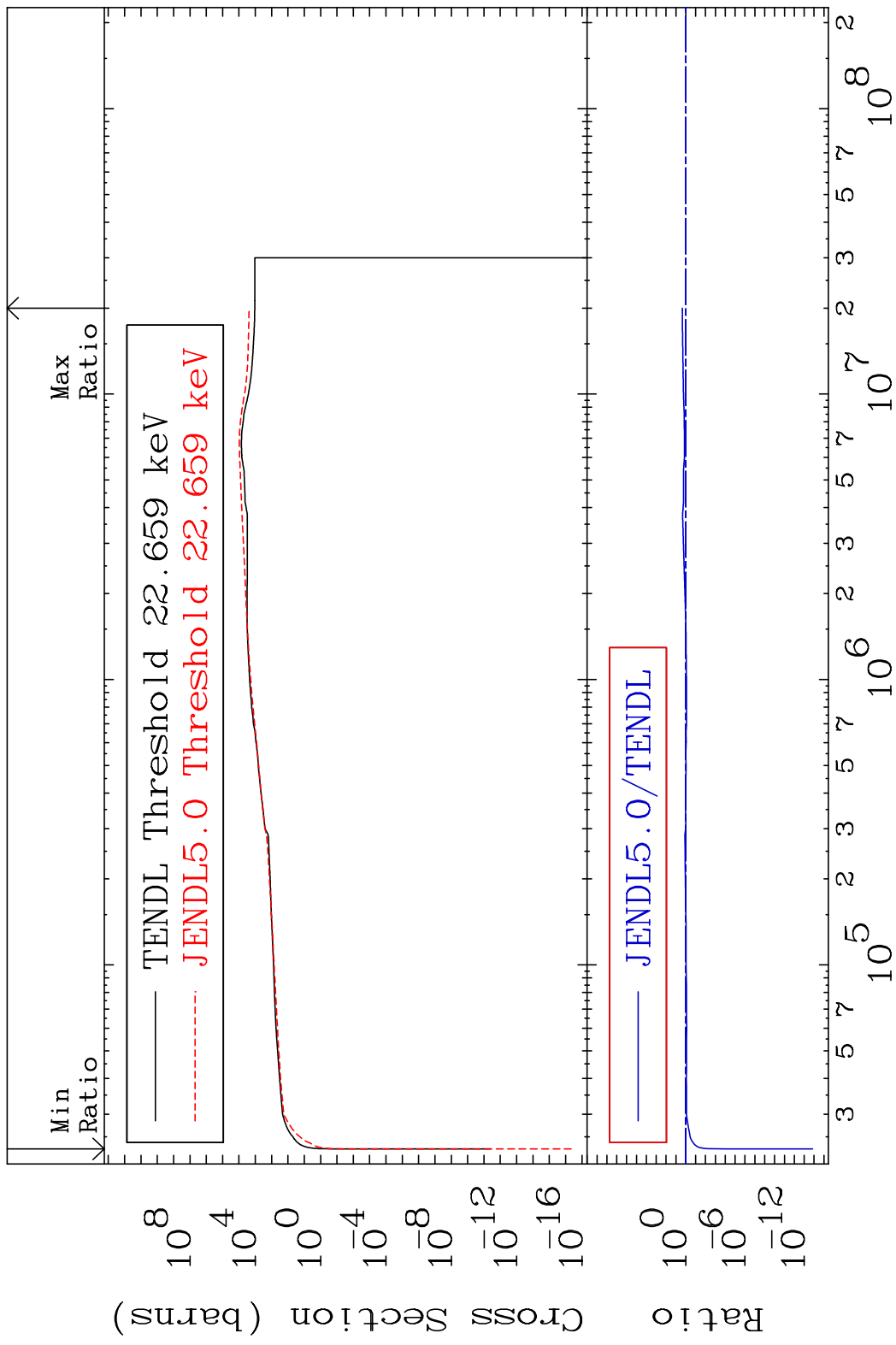


62

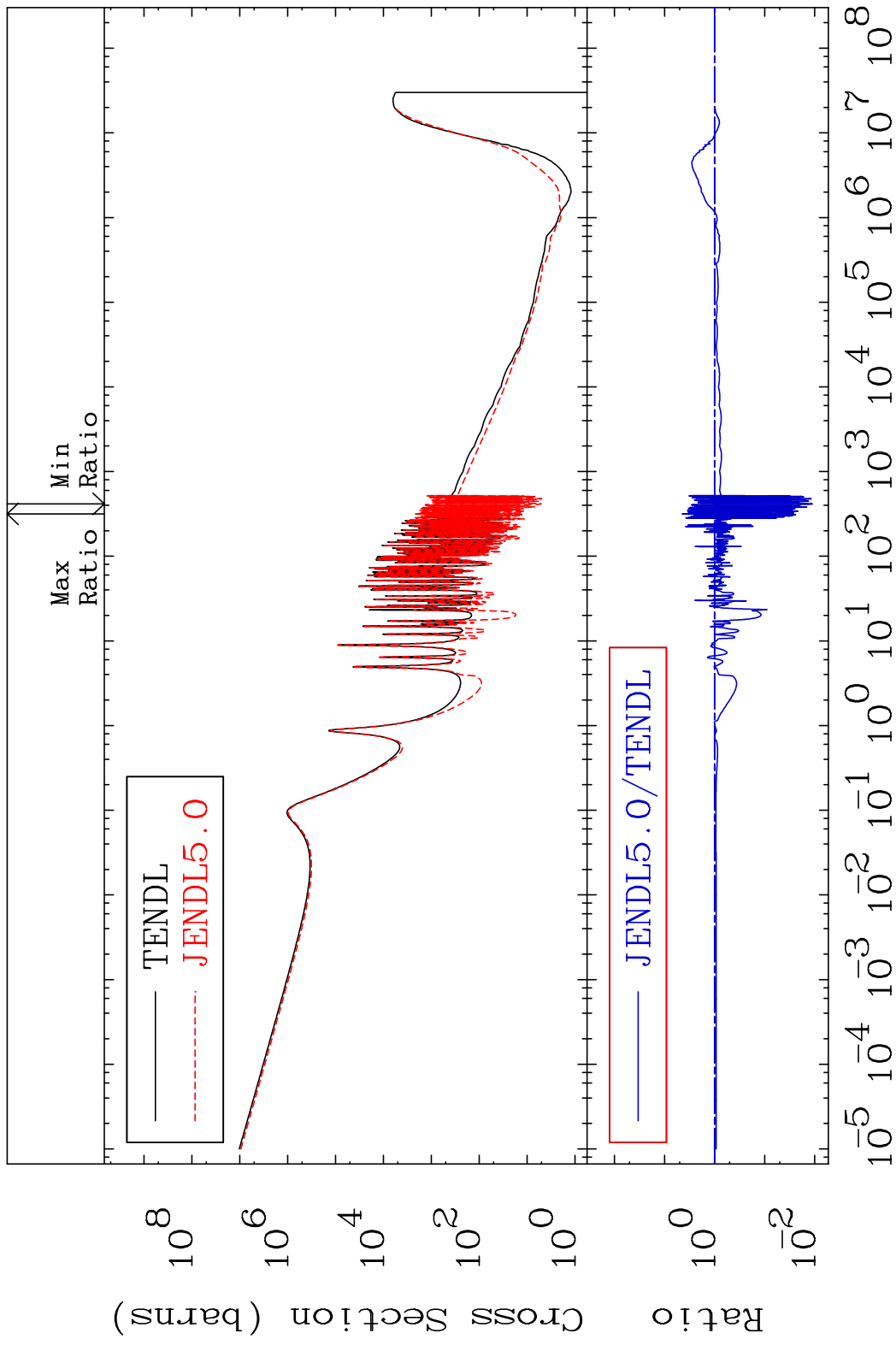
Incident Energy (eV)

62-Sm-149

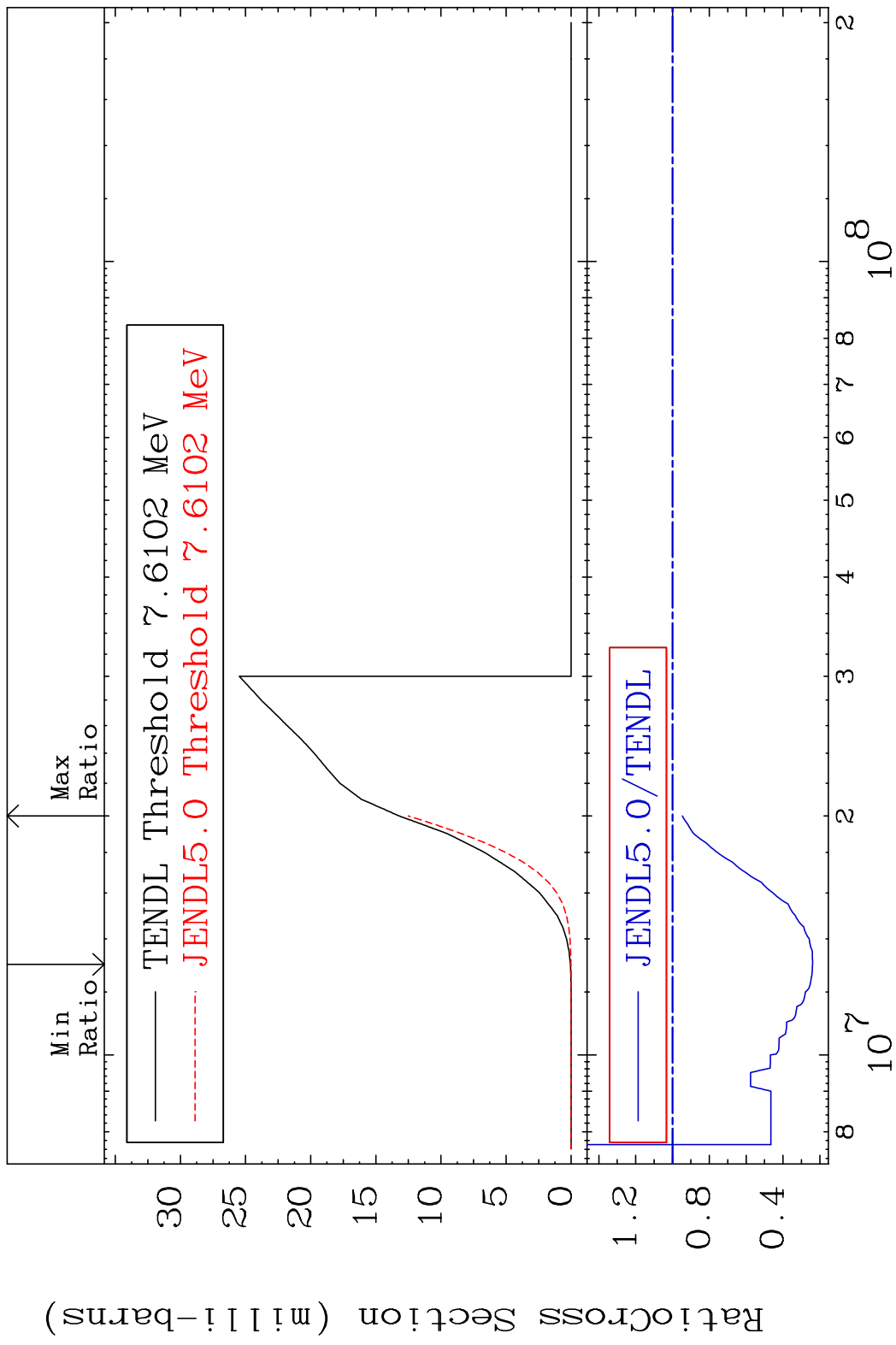
MAT 6240 Dpa inelastic (mt51-91) 62-Sm-149
 Cross Section -100.0 To 122.5 %

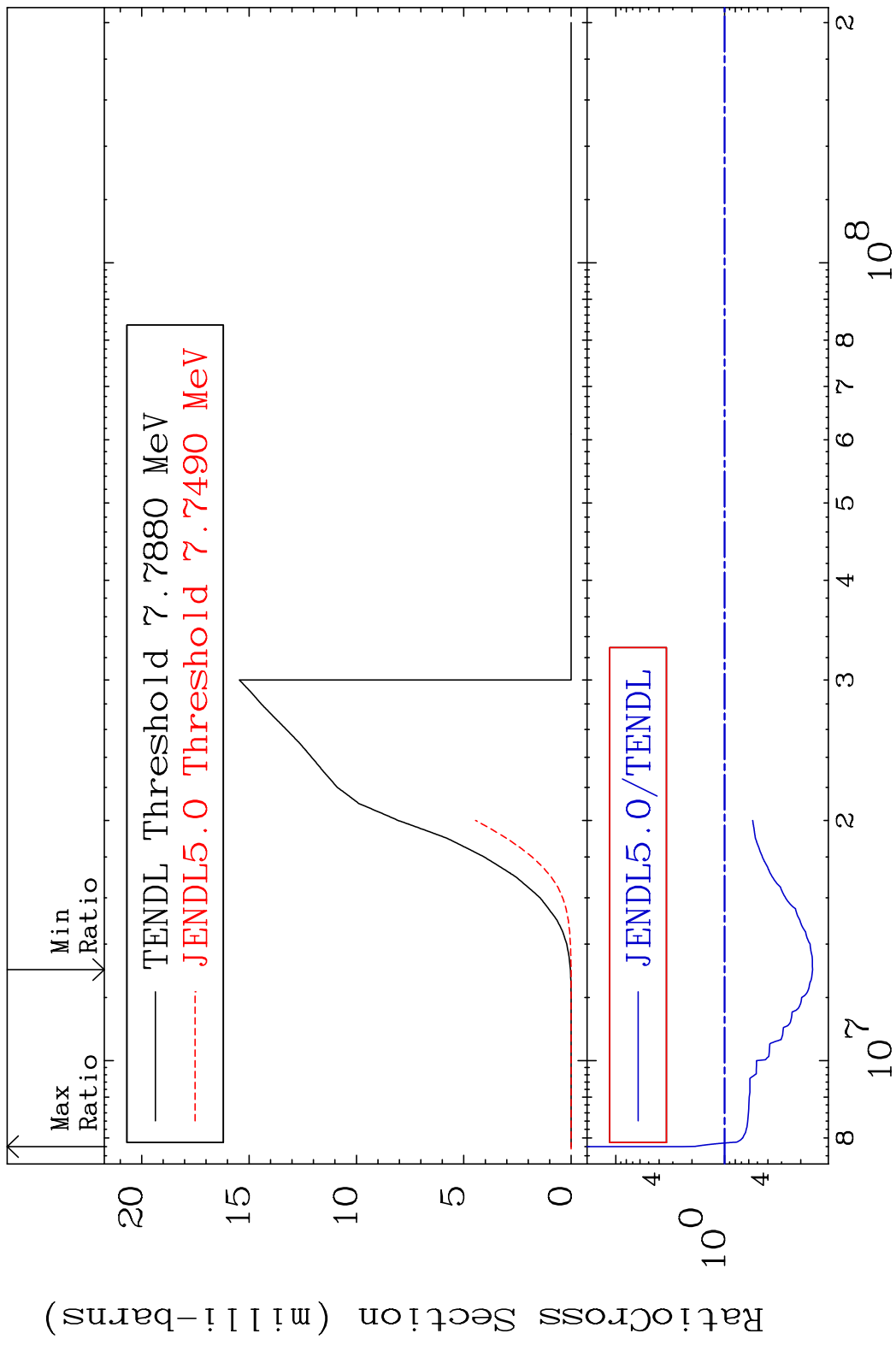


MAT 6240 Dpa disappearance (mt102 -120) 62-Sm-149
 Cross Section -98.90 To 340.4 %

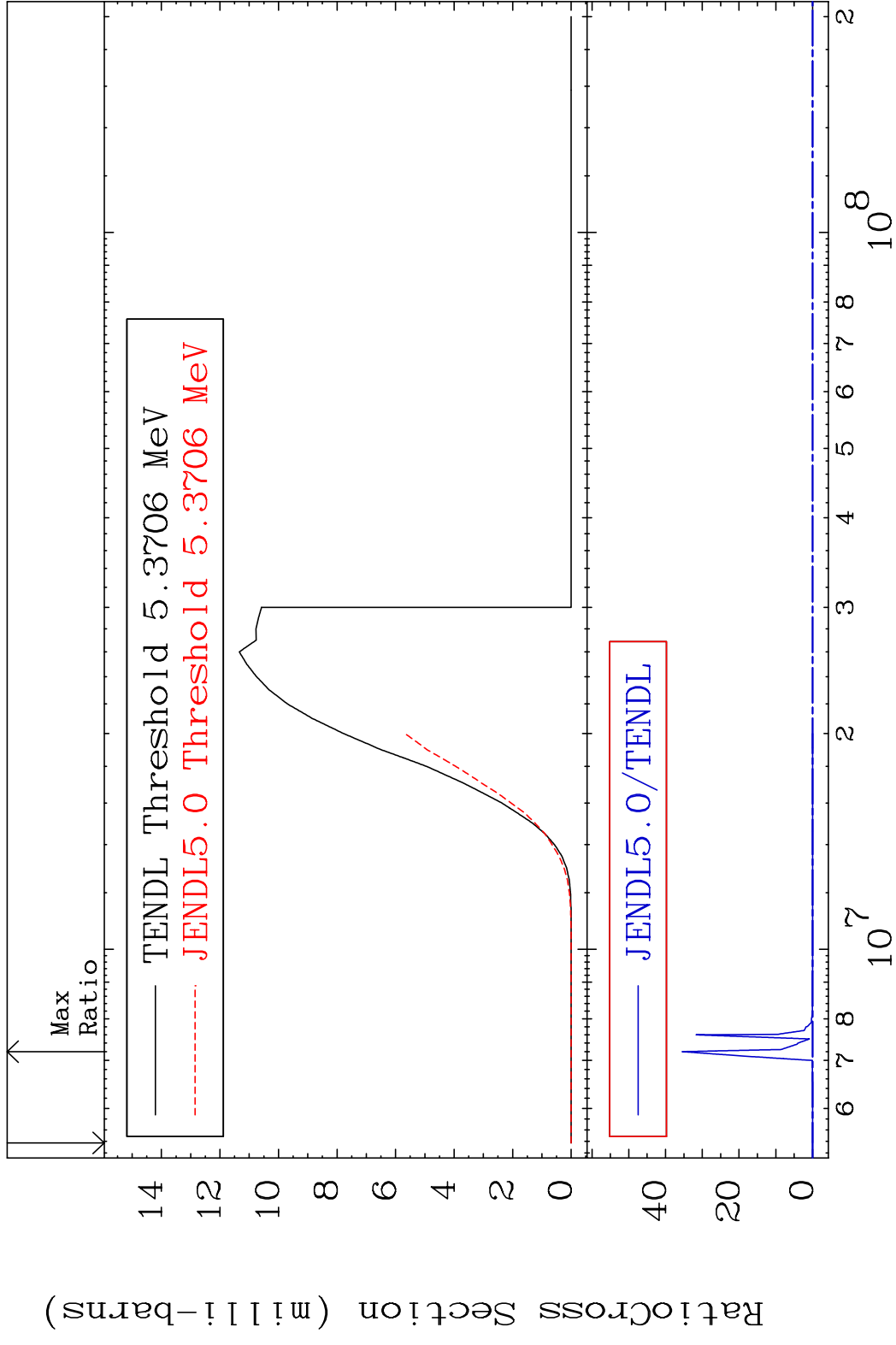


MAT 6240 (n, n') p:61-Pm-148g 62-Sm-149
 Radionuclide Production Cross Section -5.367%





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



MAT 6240 (n, d): 61-Pm-148m3 62-Sm-149
 Radionuclide Production Cross Section 58e50 d to 9999. %

