

Program Complot
(Version 2021-1)

by

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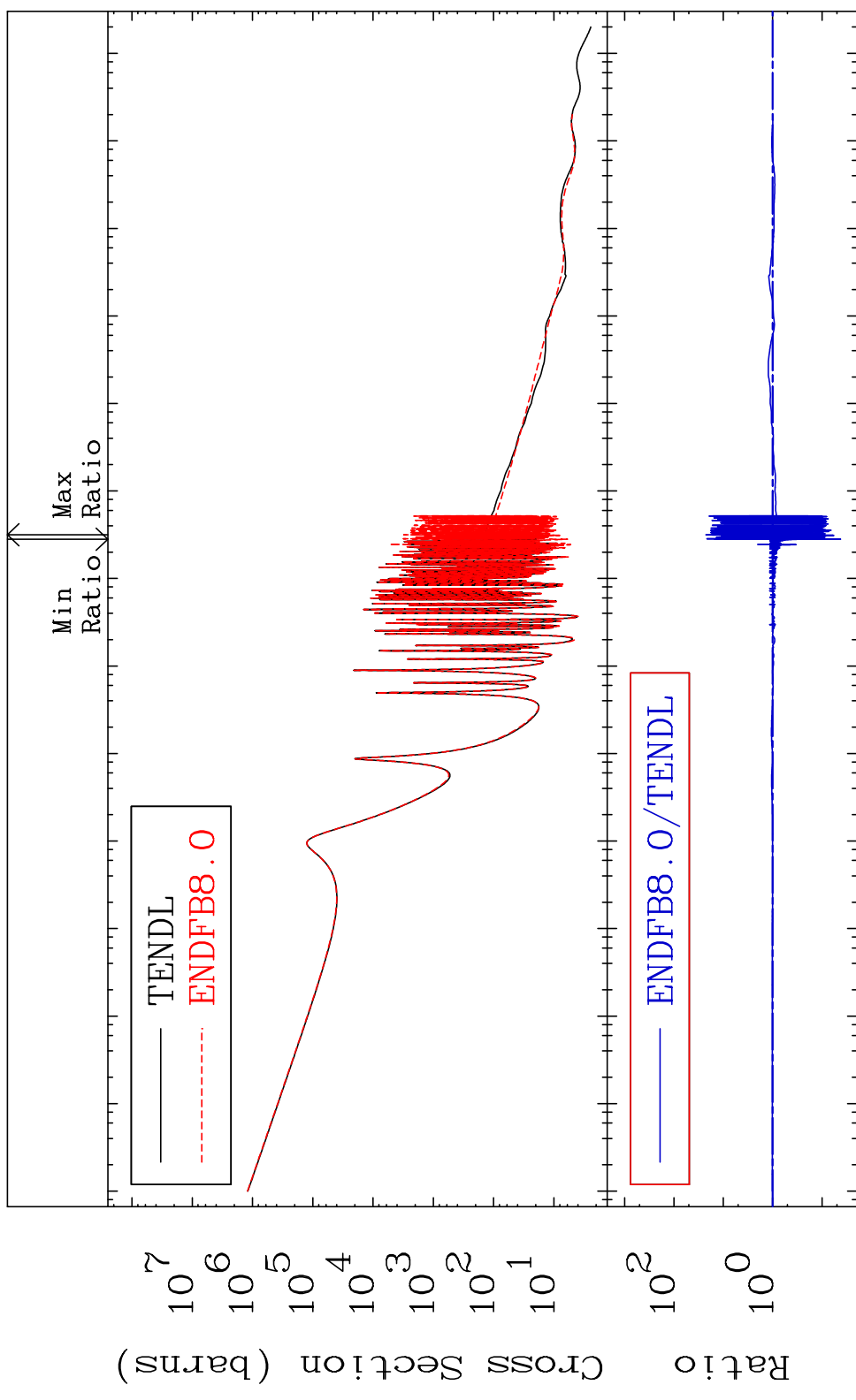
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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6240

Total Cross Section -95.77 To 2165. %
62-Sm-149



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

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

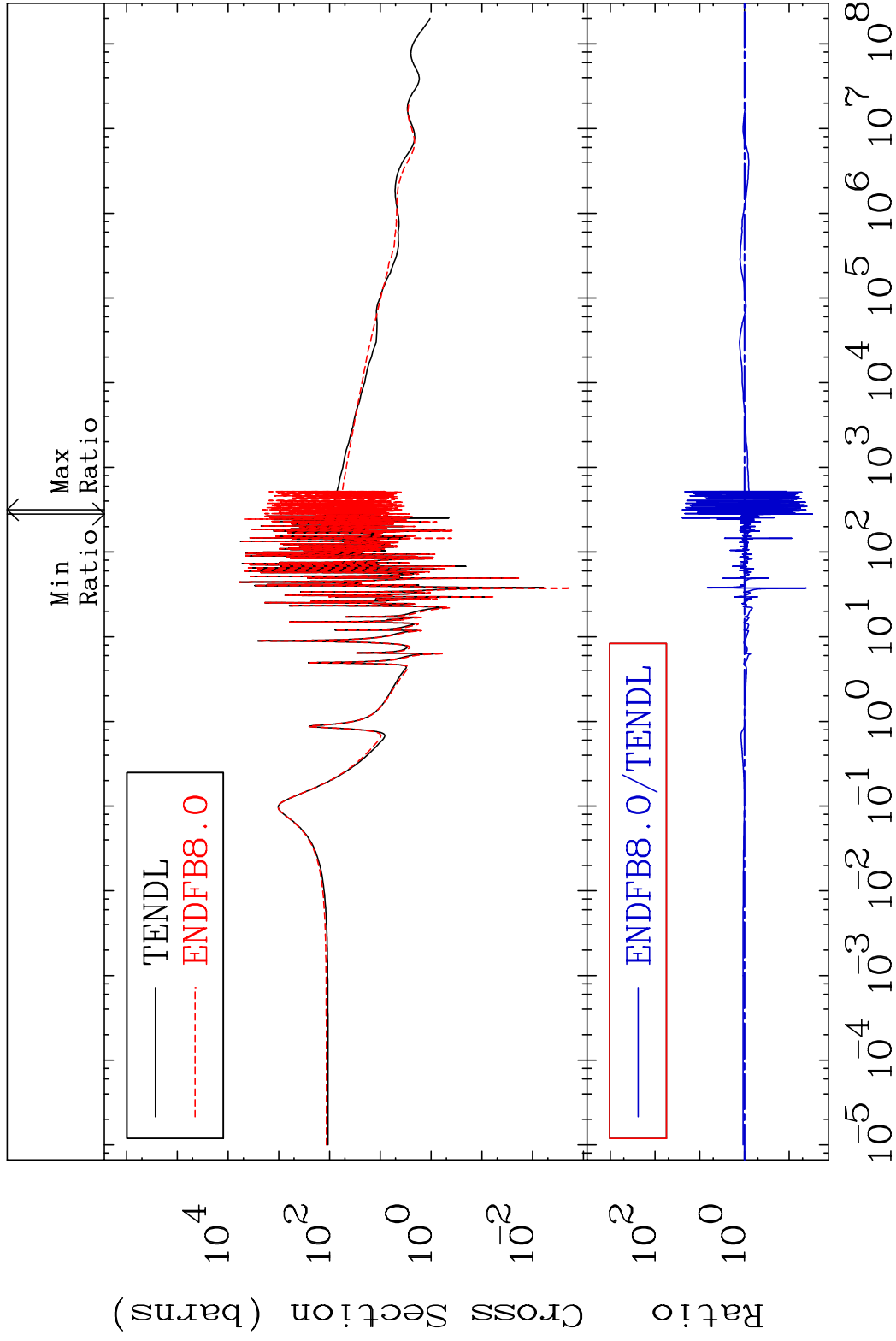
1 Incident Energy (eV) 62-Sm-149

MAT 6240

Elastic

62-Sm-149

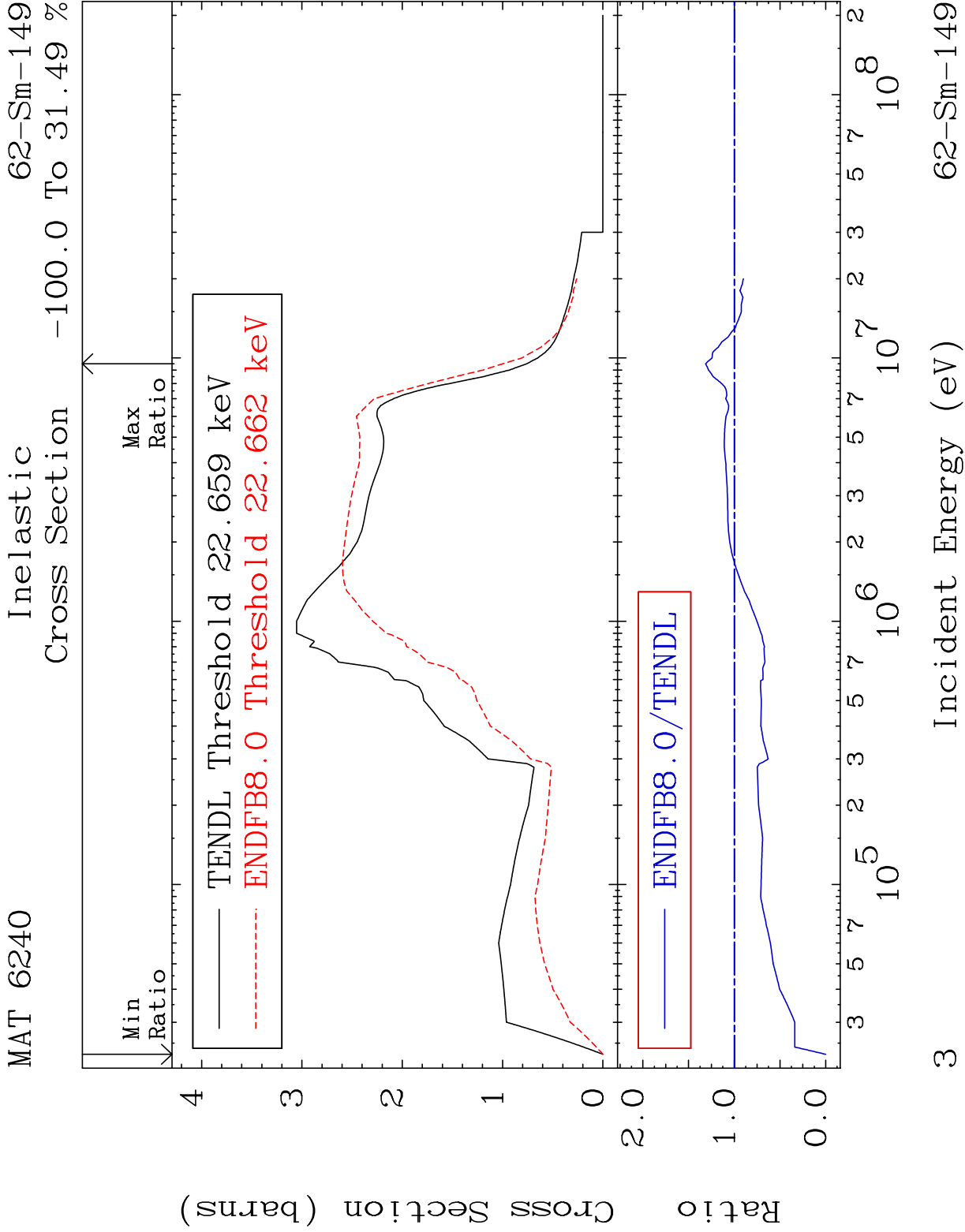
Cross Section -97.01 To 2351. %



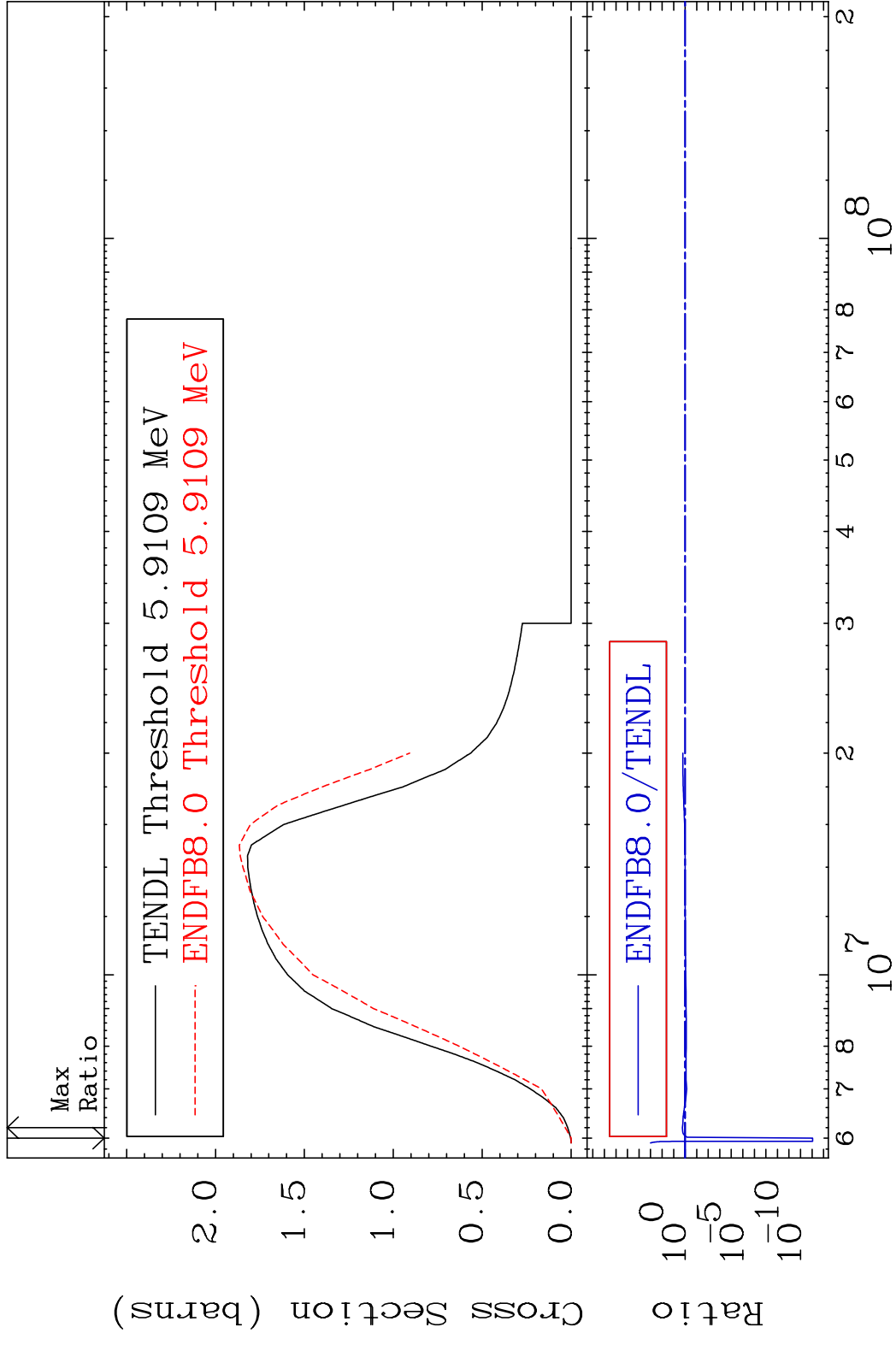
2

Incident Energy (eV)

62-Sm-149

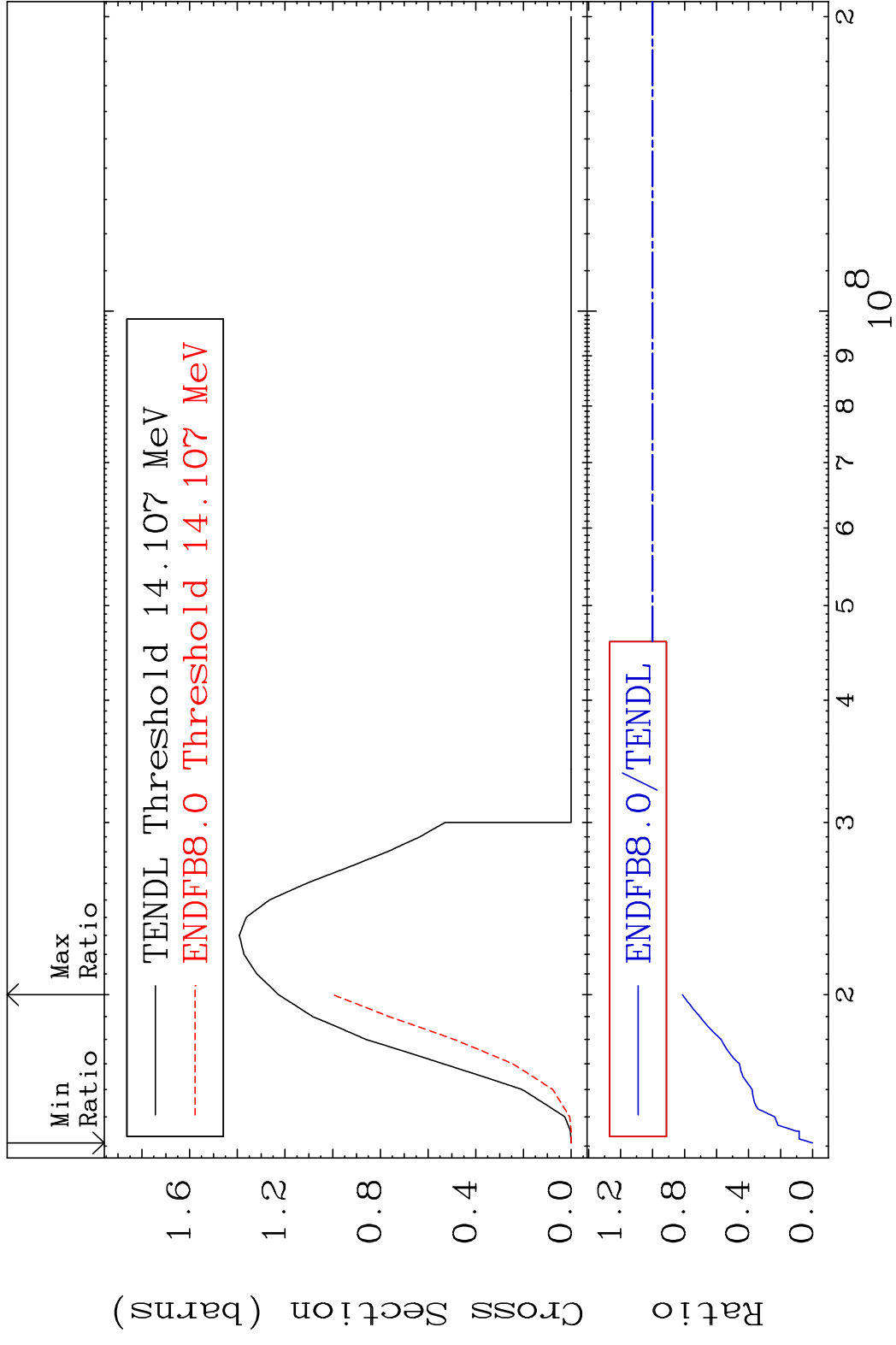


MAT 6240 (n,2n) 62-Sm-149
 Cross Section -100.0 To 74.72 %



4 Incident Energy (eV) 62-Sm-149

MAT 6240 (n,3n) 62-Sm-149
 Cross Section -100.0 To -18.59%

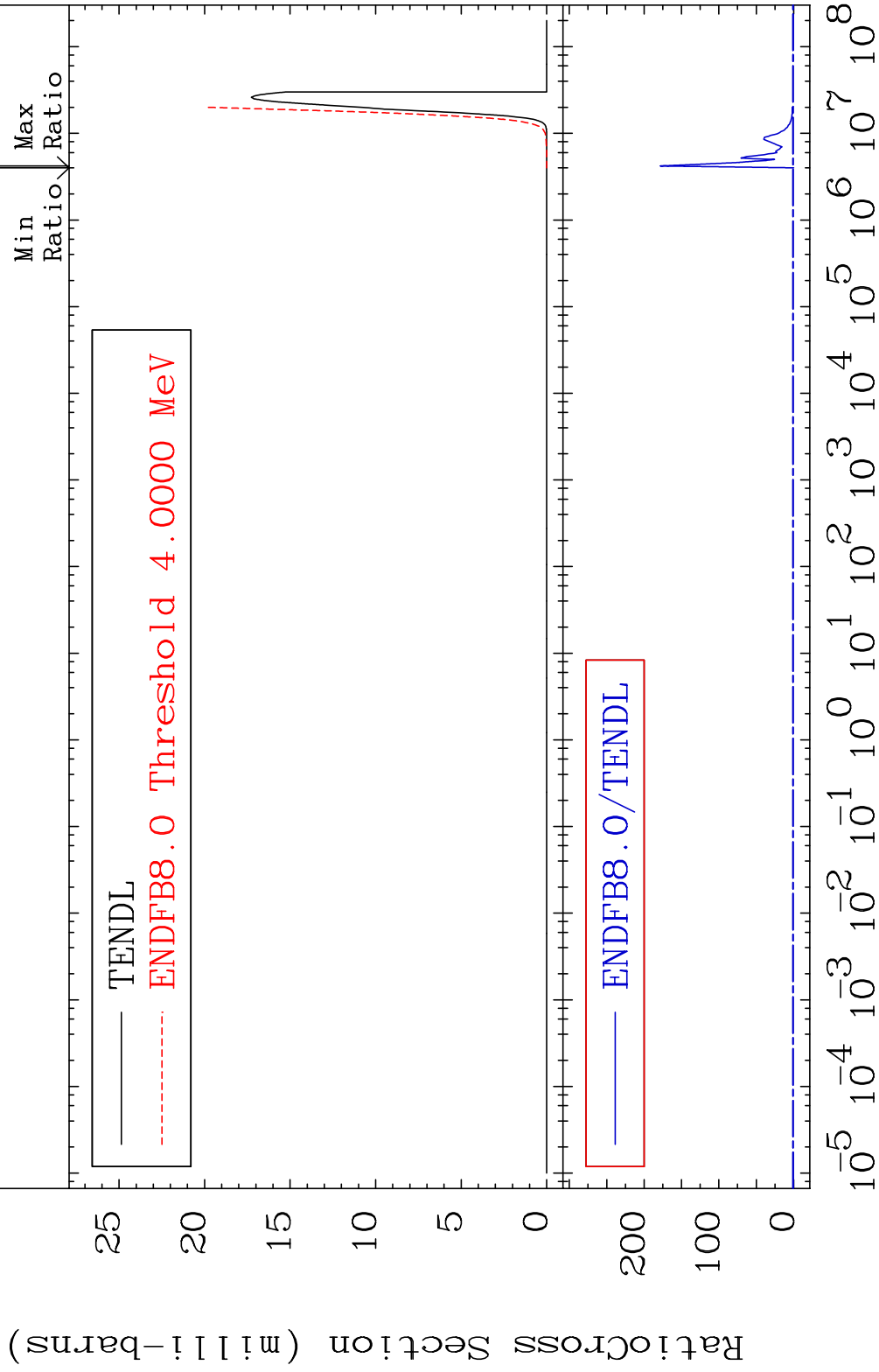


MAT 6240

(n, n') α

62-Sm-149

Cross Section -100.0 To 9999. %

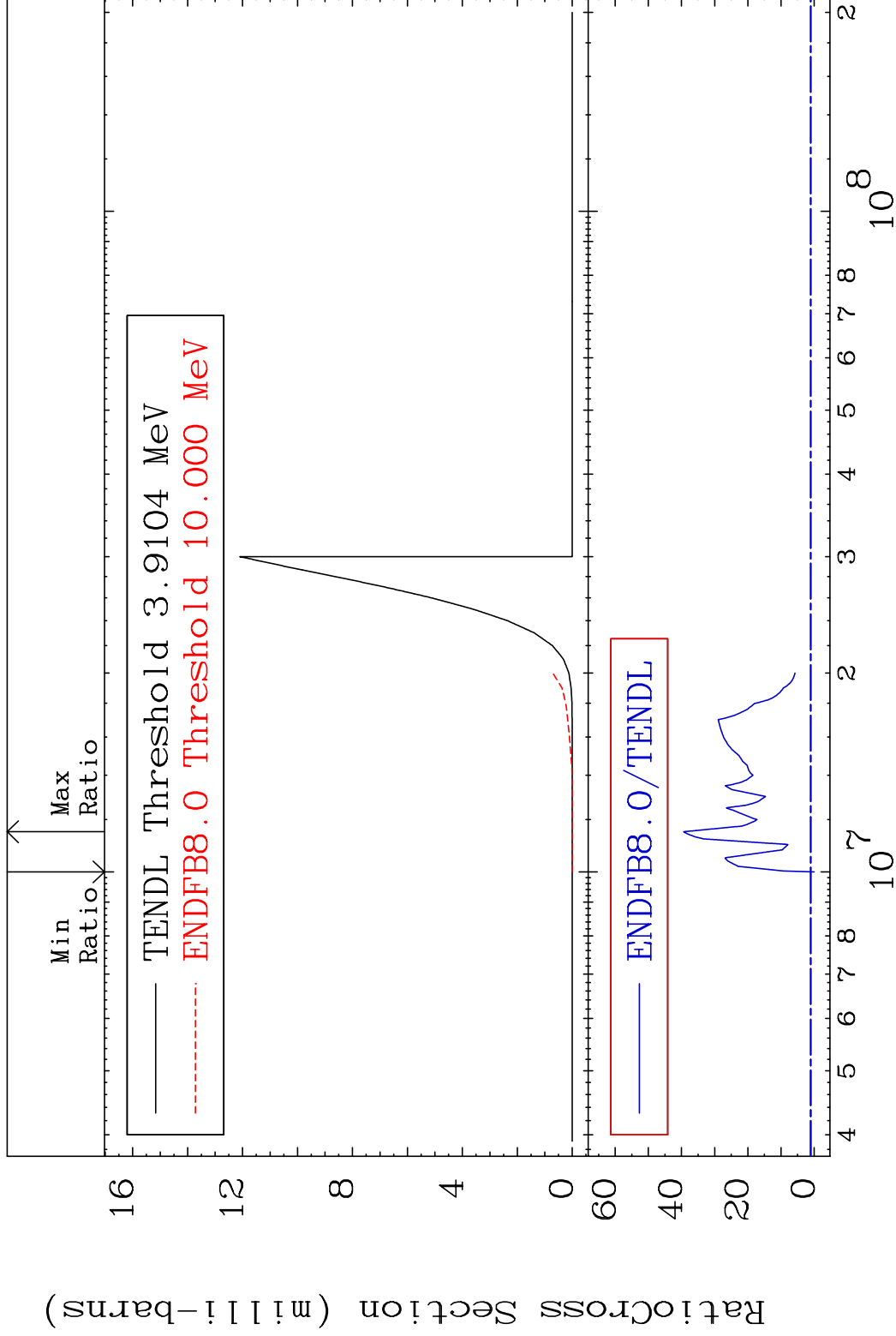


MAT 6240

(n,2n) α

62-Sm-149

Cross Section -100.0 To 3835. %

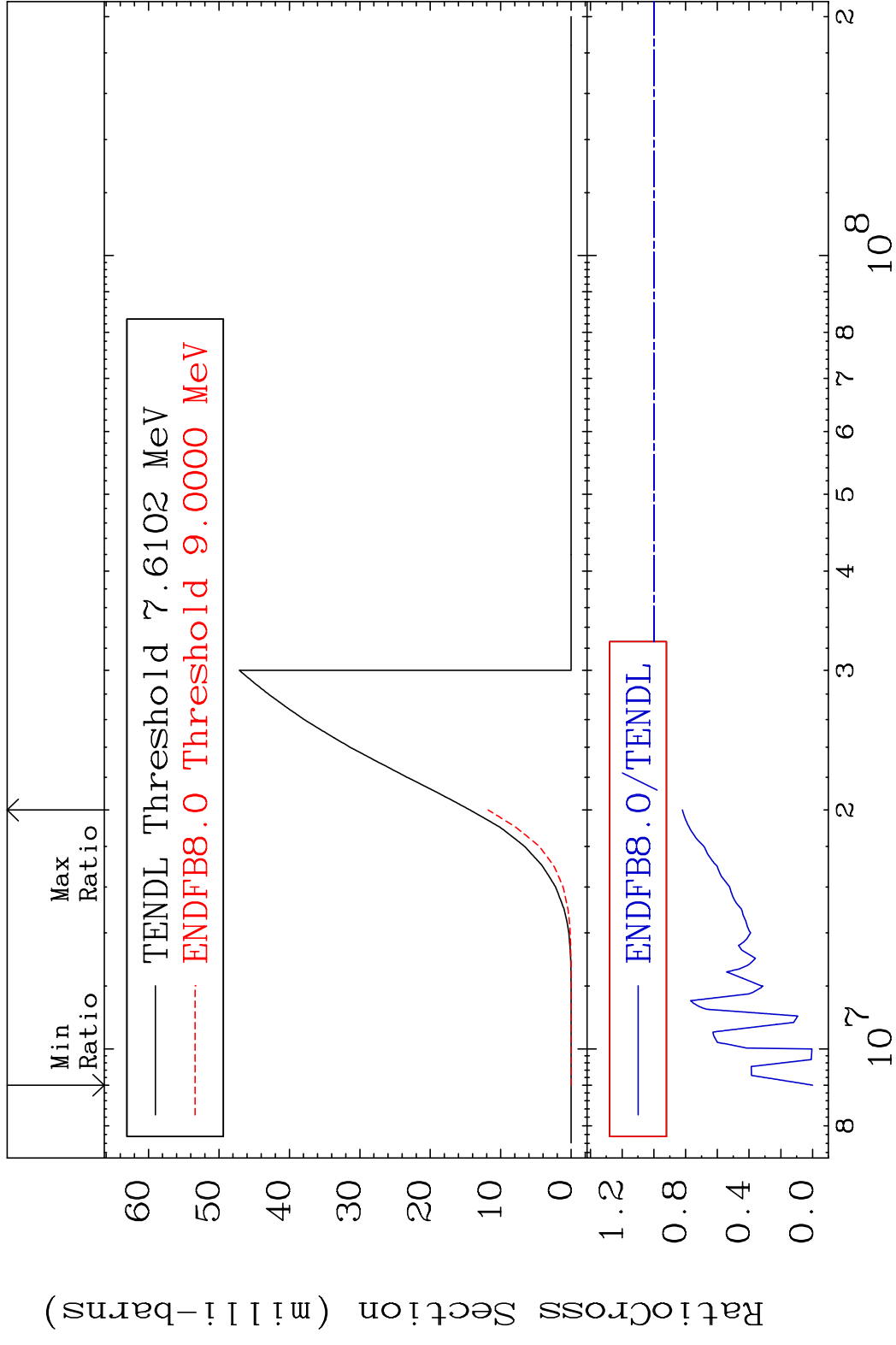


7

Incident Energy (eV)

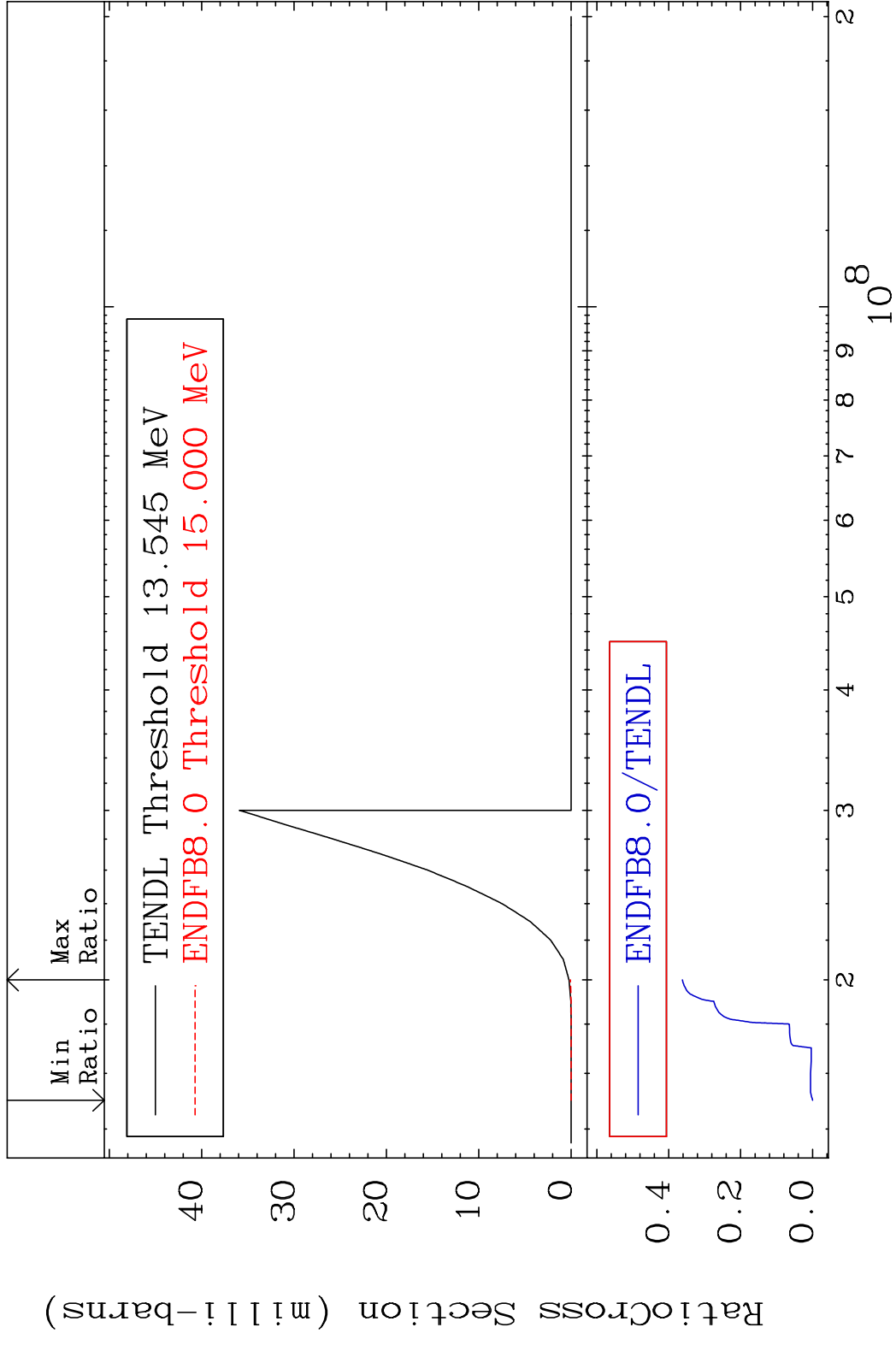
62-Sm-149

MAT 6240 (n, n') p 62-Sm-149
 Cross Section -100.0 To -17.94%

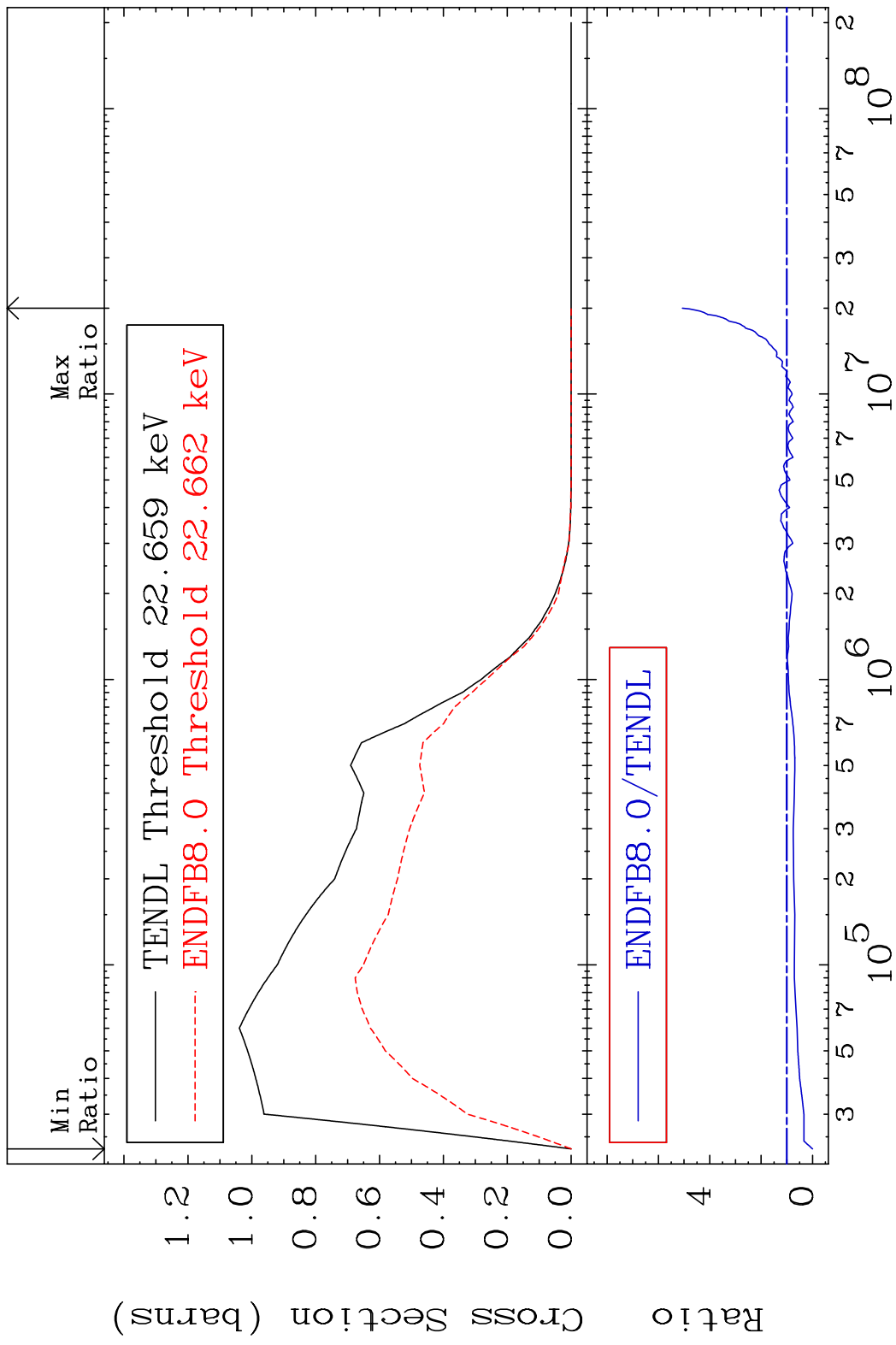


8 8 Incident Energy (eV) 62-Sm-149

MAT 6240 (n,2n) p 62-Sm-149
 Cross Section -100.0 To -63.79%

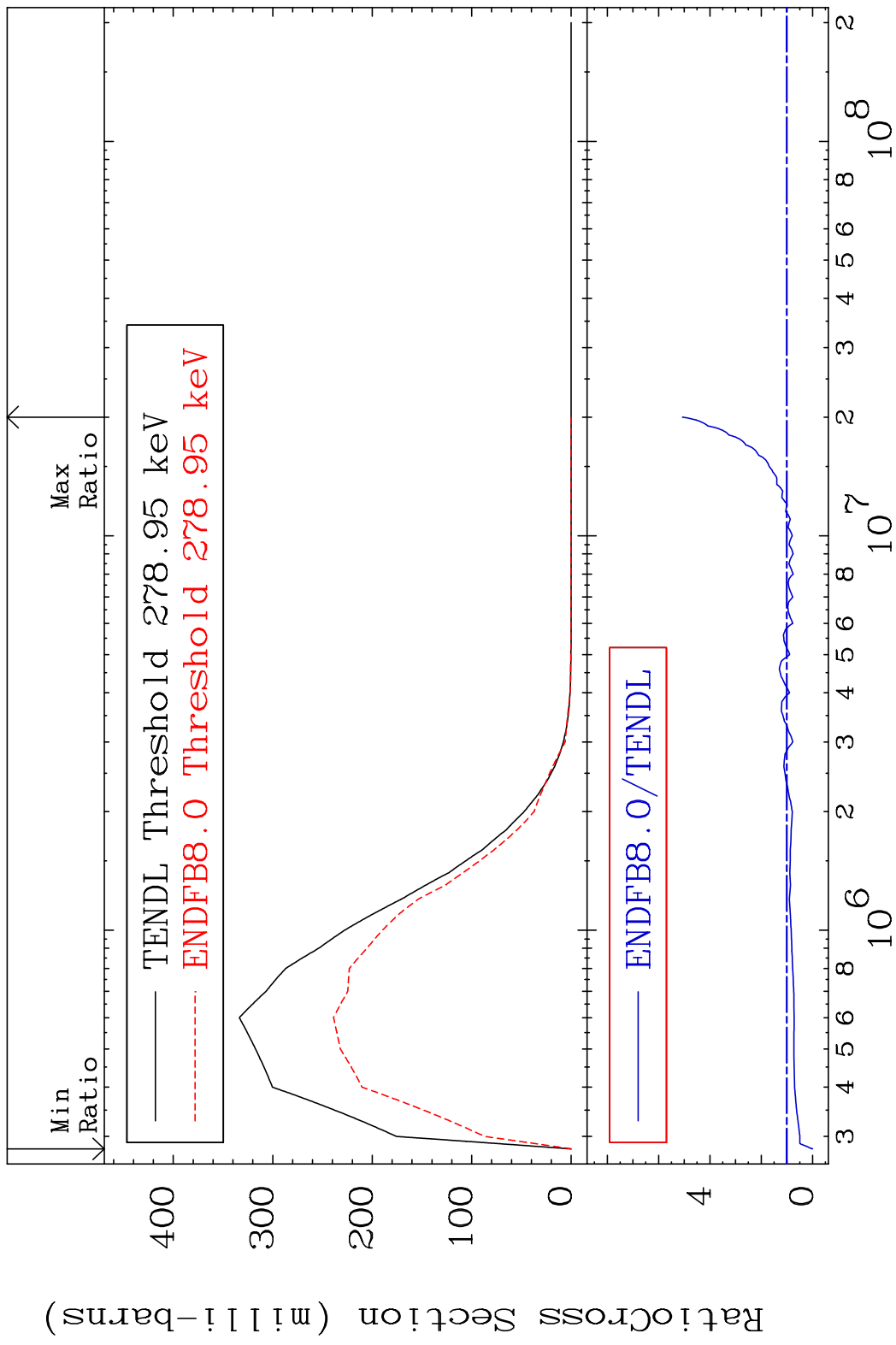


MAT 6240 MT= 51 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 406.8 %

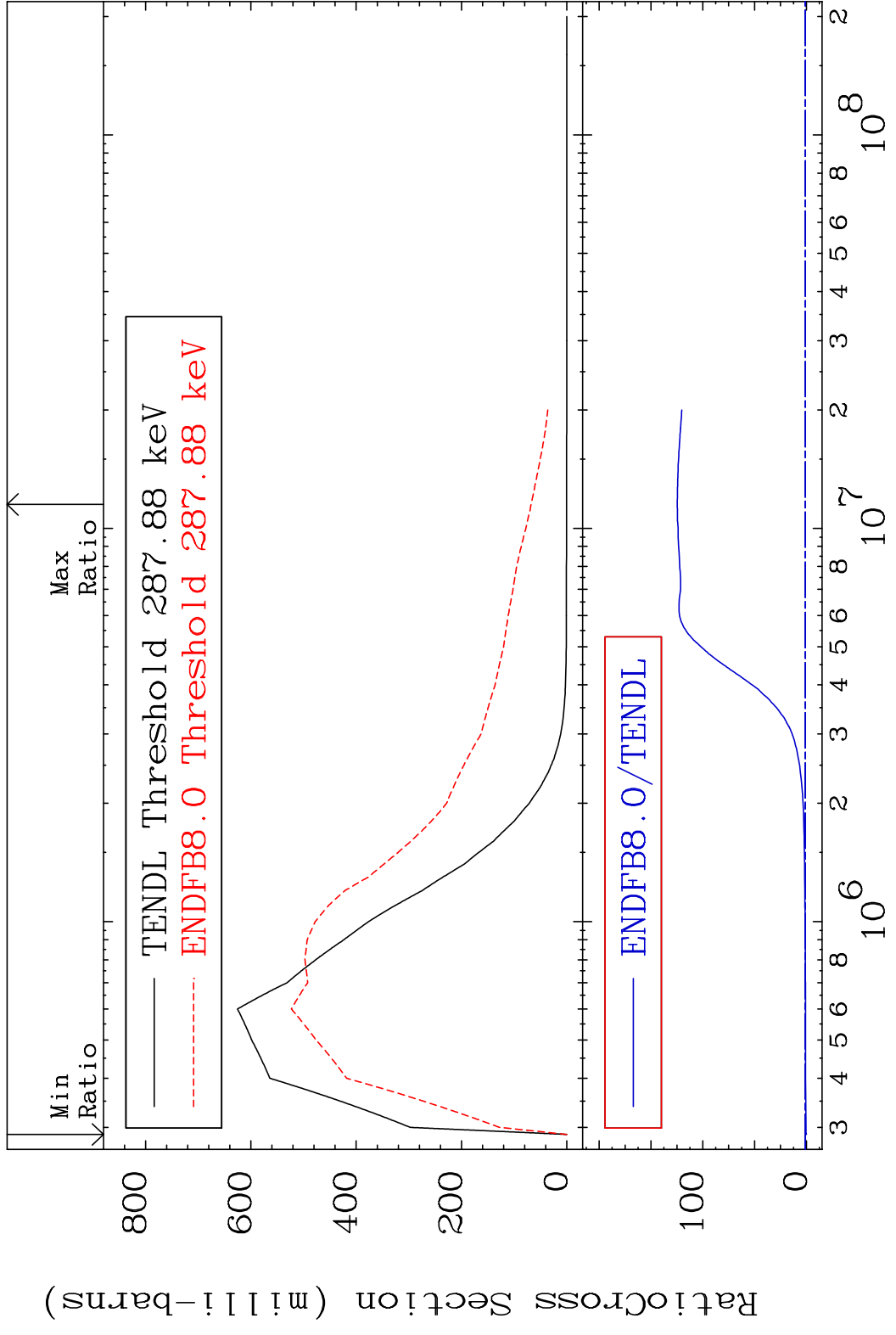


10 Incident Energy (eV) 62-Sm-149

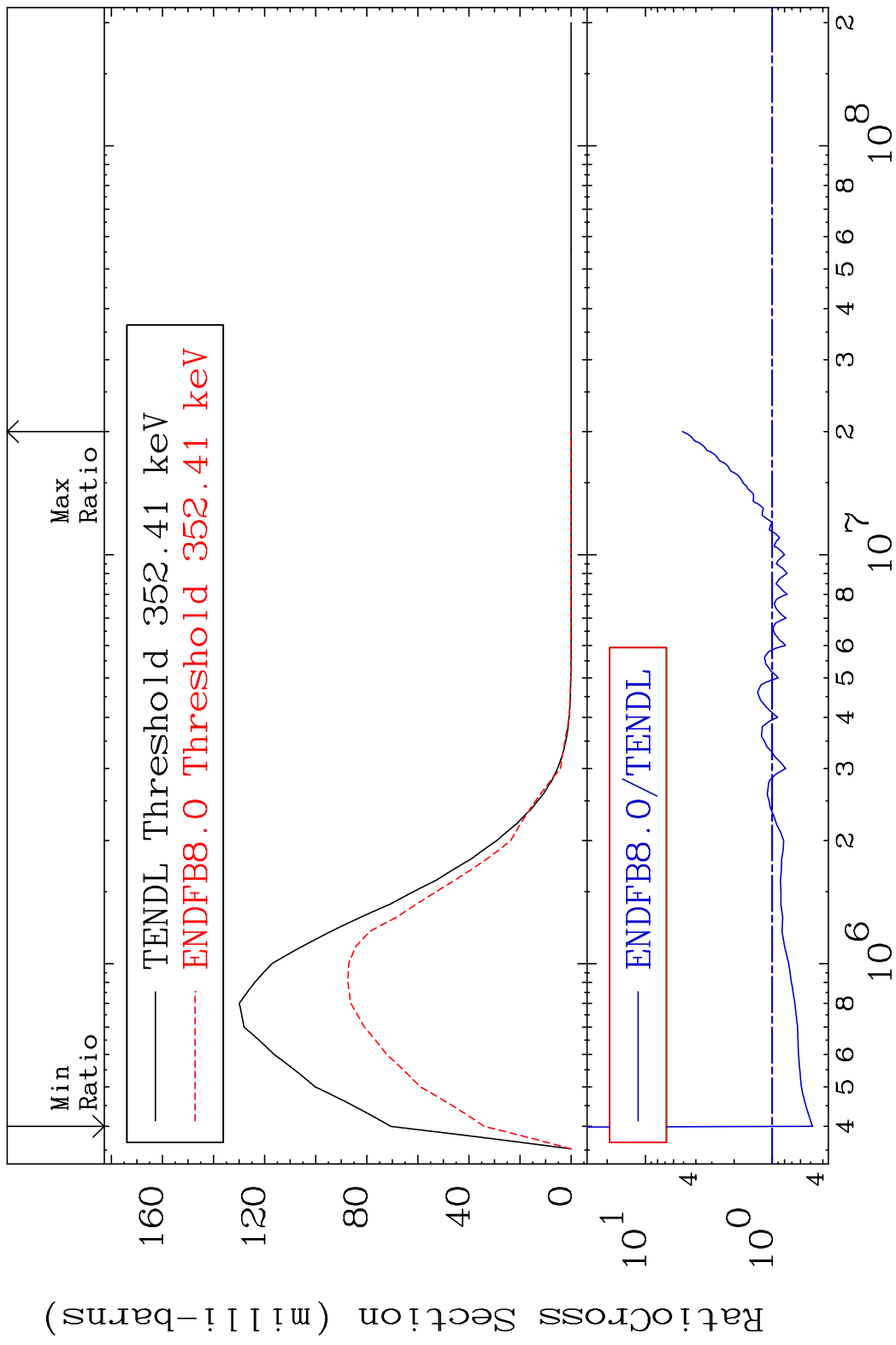
MAT 6240 MT= 52 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 407.3 %



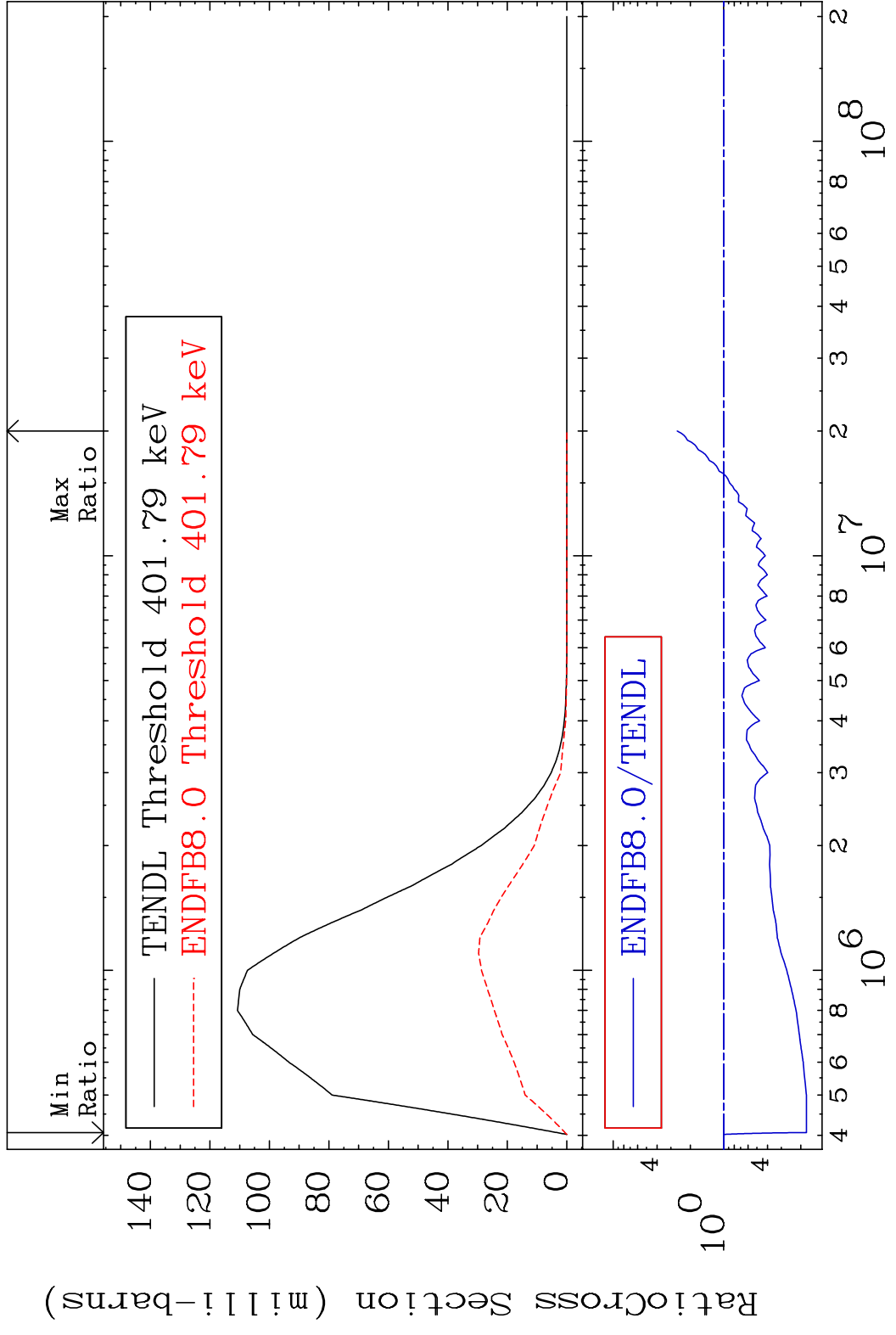
MAT 6240 MT= 53 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 9999. %



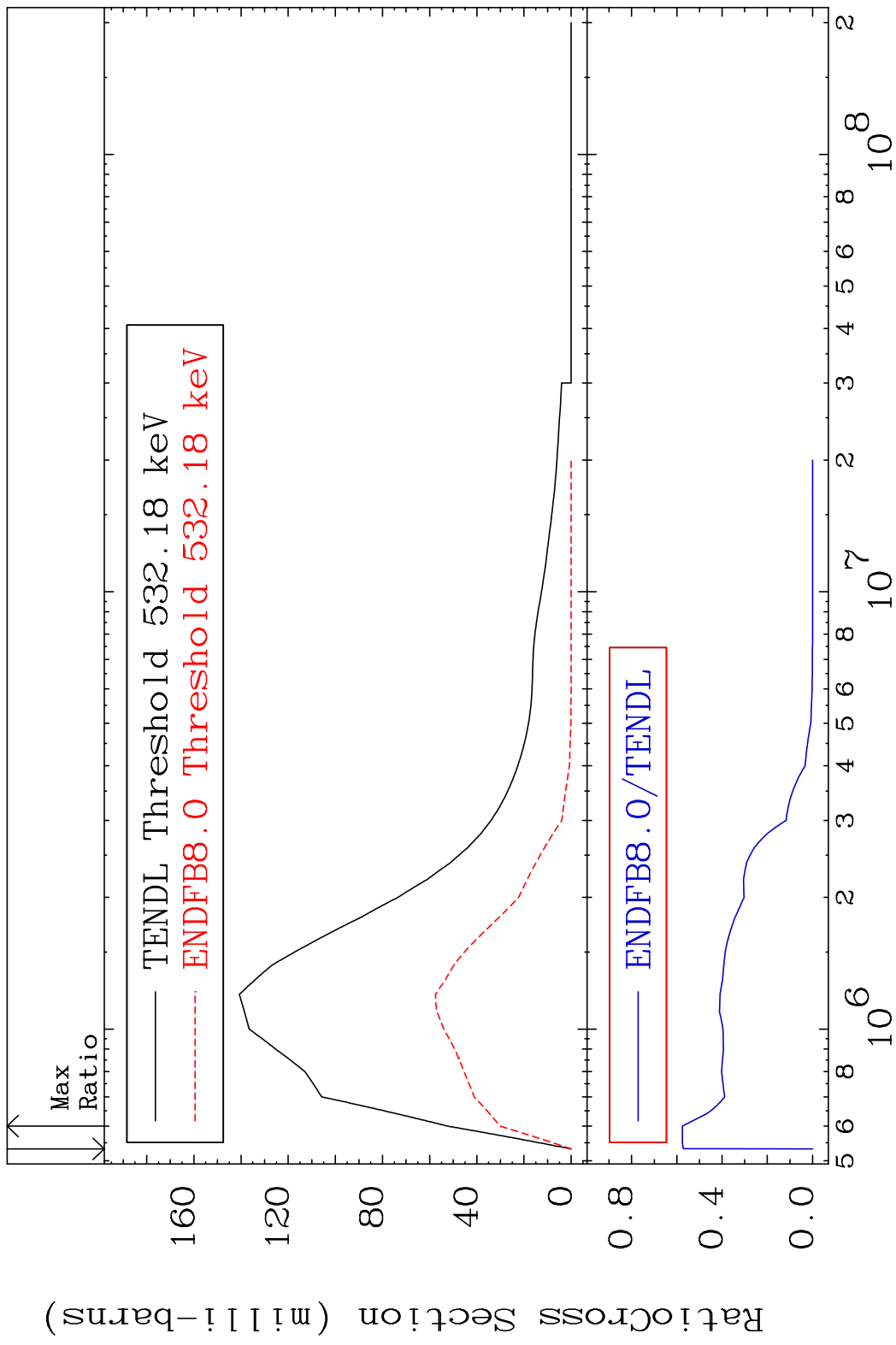
MAT 6240 MT= 54 (n,n') Level 62-Sm-149
 Cross Section -51.85 To 411.0 %



MAT 6240 MT= 55 (n,n') Level 62-Sm-149
 Cross Section -82.24 To 163.0 %

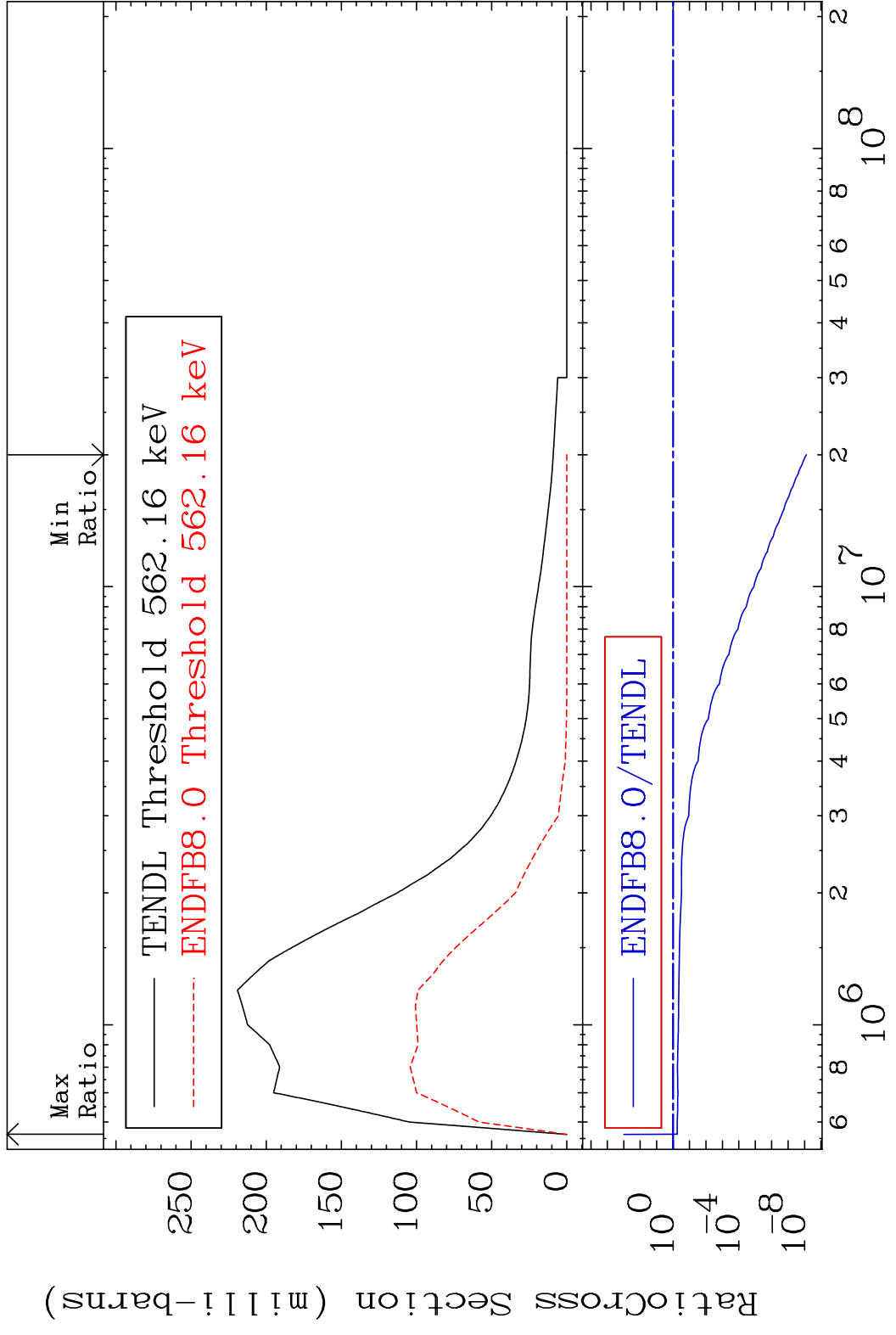


MAT 6240 MT= 56 (n,n') Level 62-Sm-149
 Cross Section -100.0 To -42.44%



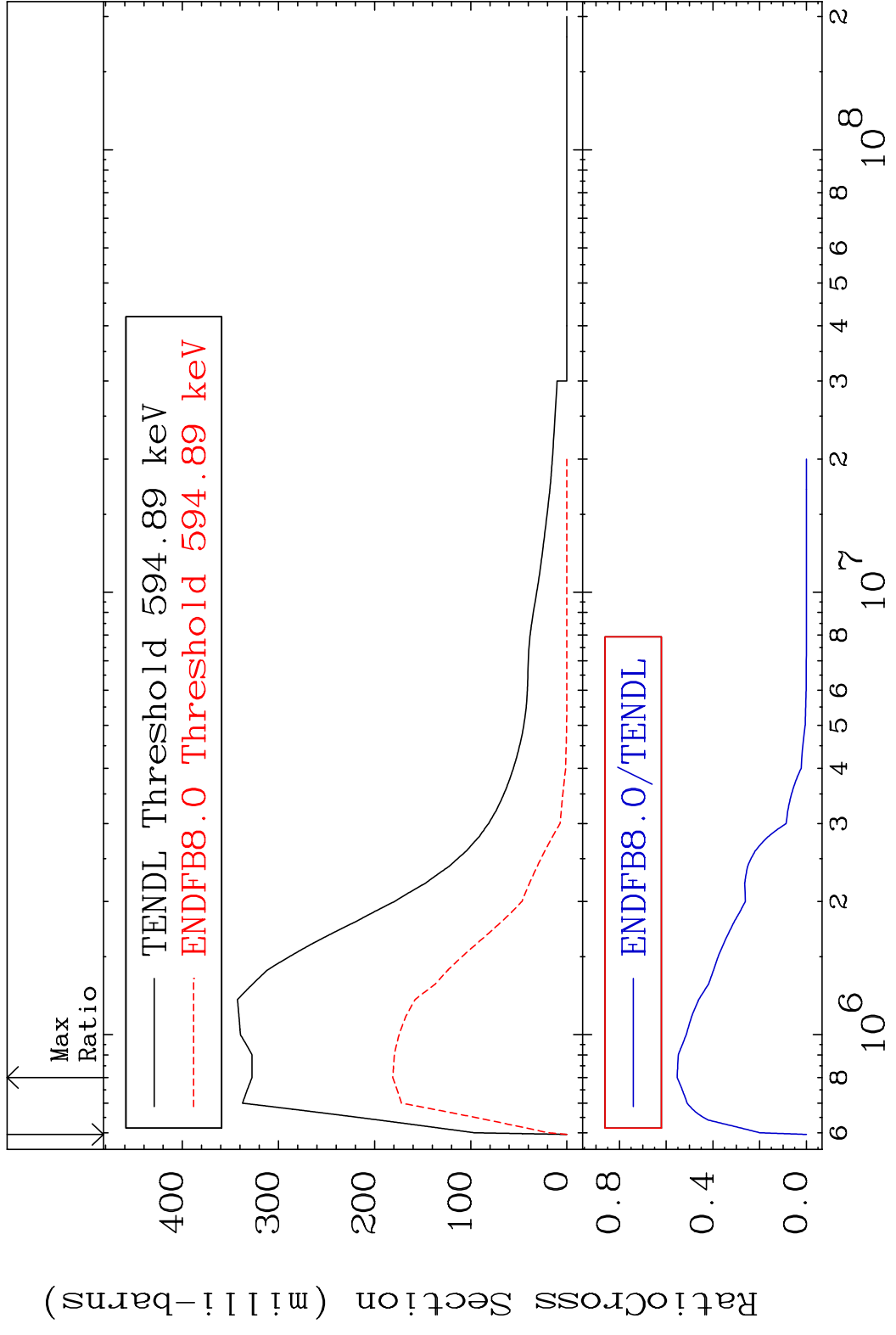
15 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 57 (n, n') Level 62-Sm-149
 Cross Section -100.0 To -43.82%

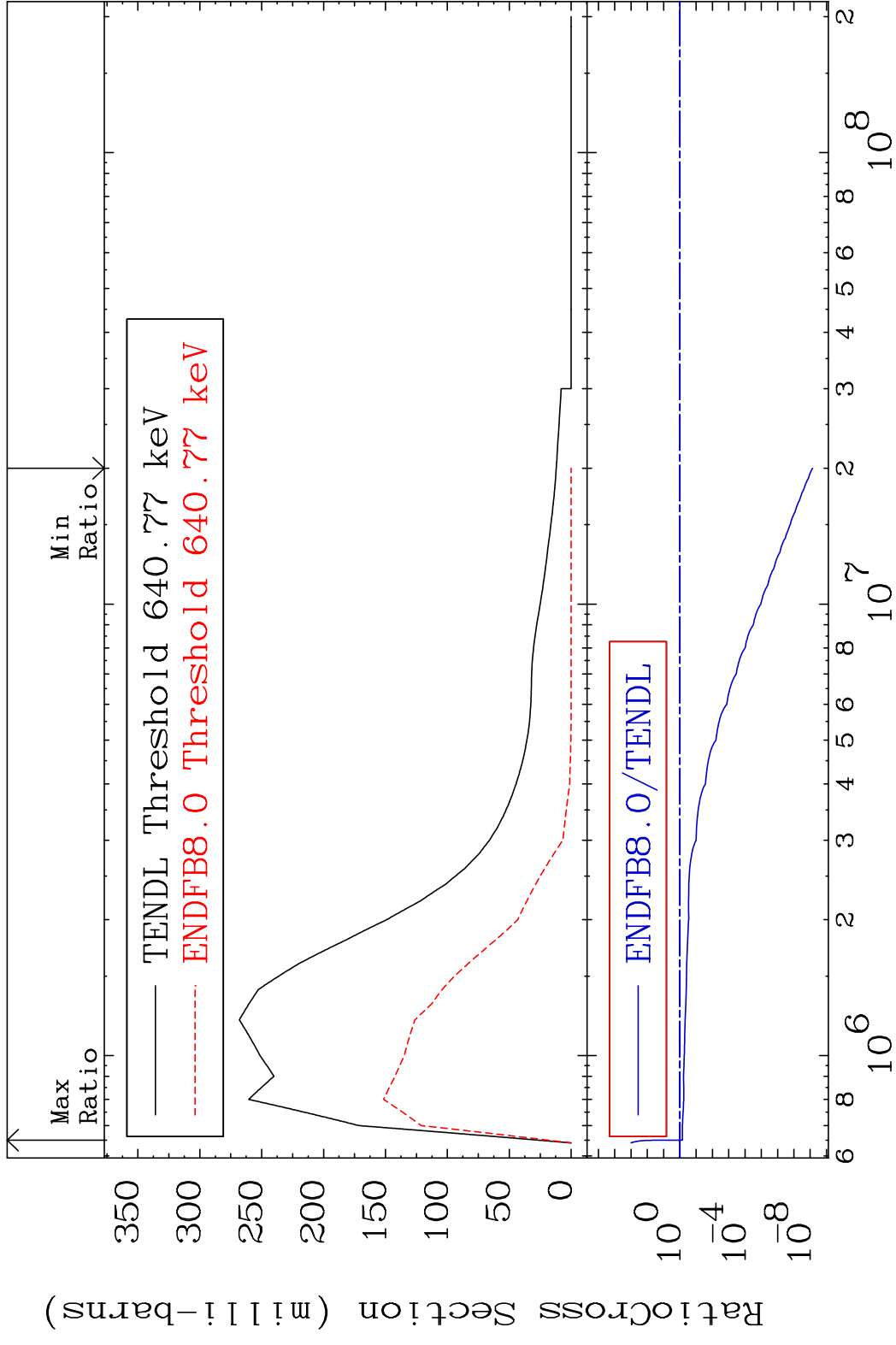


16 Incident Energy (eV) 62-Sm-149

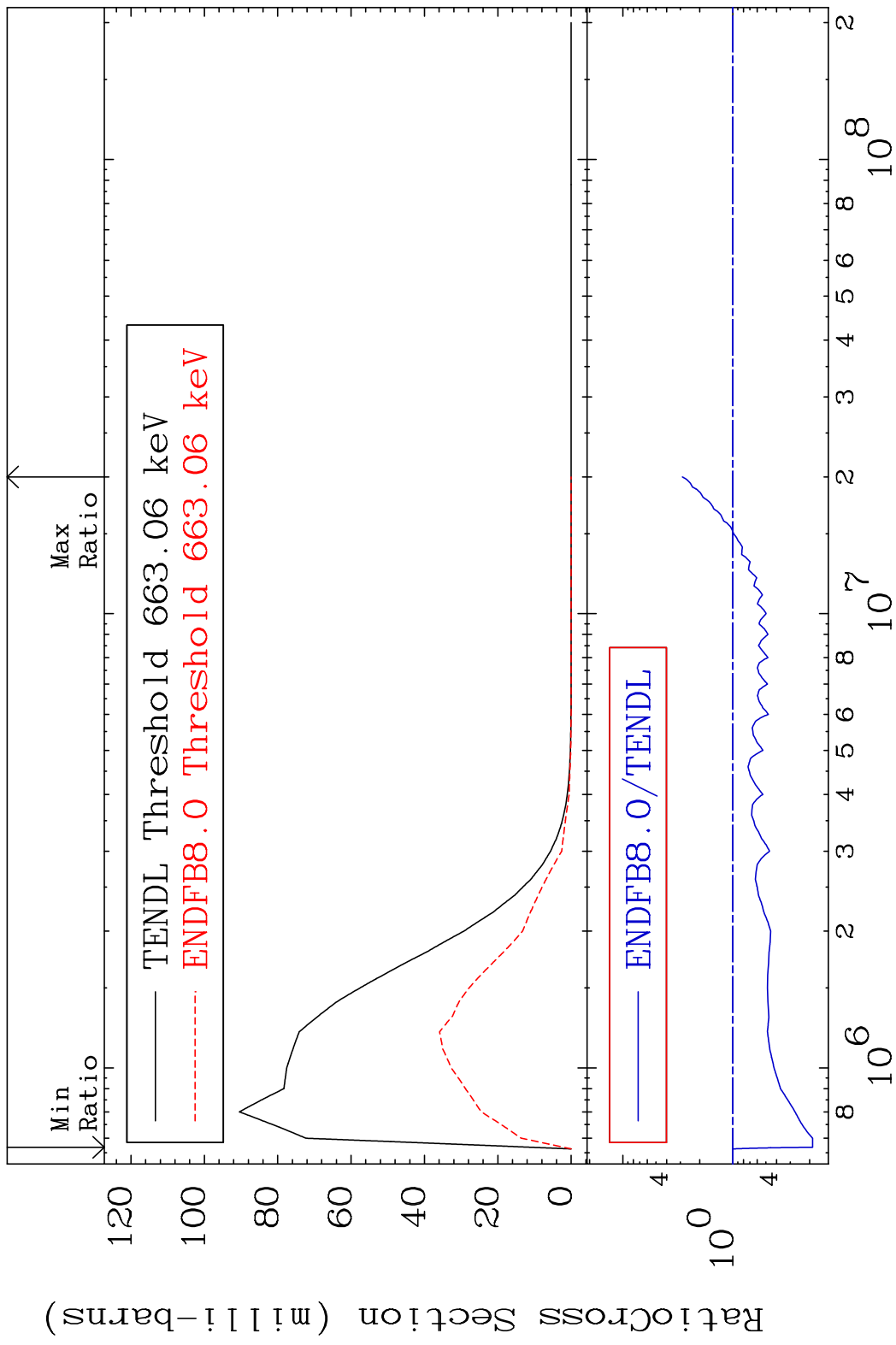
MAT 6240 MT= 58 (n,n') Level 62-Sm-149
 Cross Section -100.0 To -44.71%



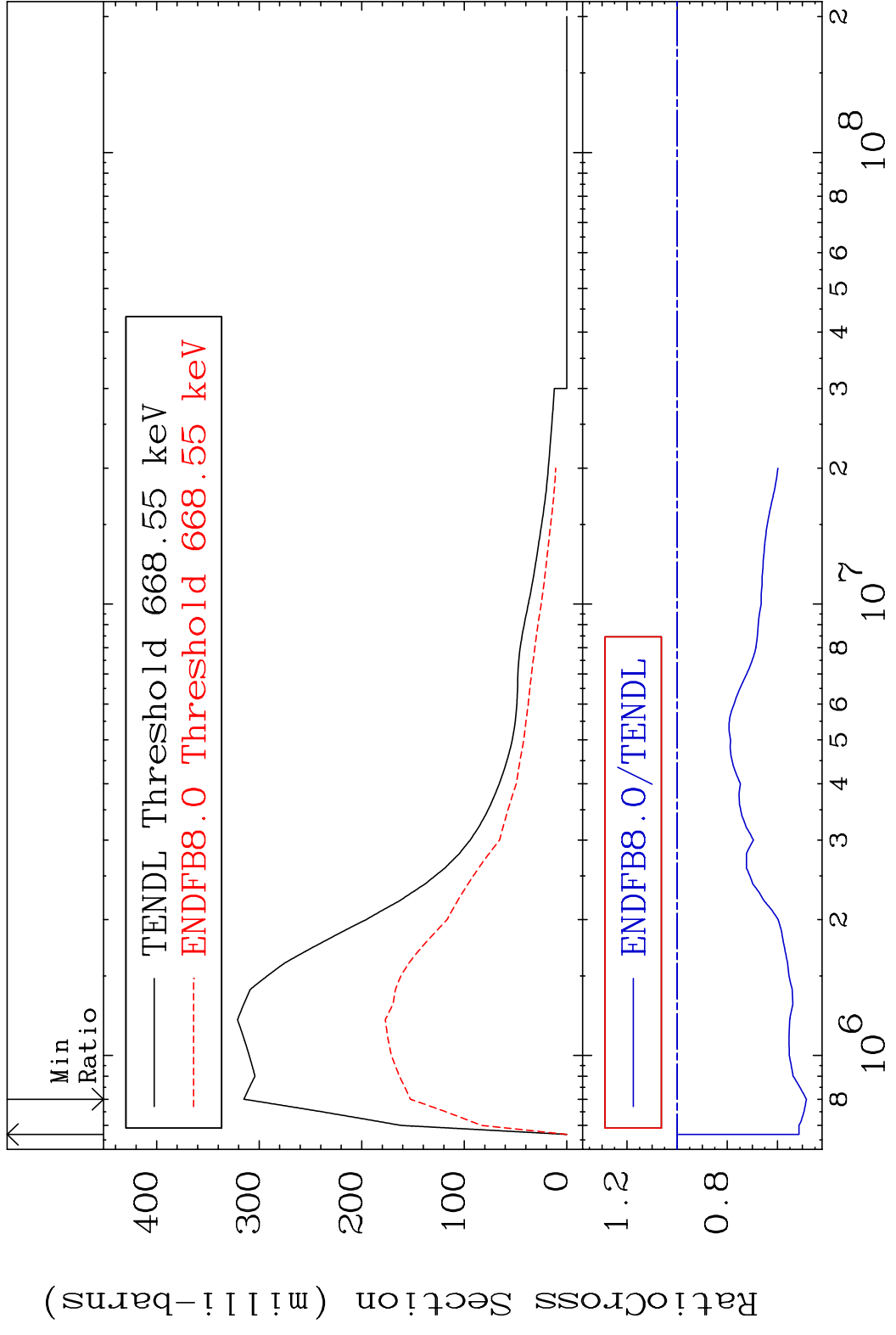
MAT 6240 MT= 59 (n, n') Level 62-Sm-149
 Cross Section -100.0 To -29.35%



MAT 6240 MT= 60 (n, n') Level 62-Sm-149
 Cross Section -81.17 To 187.3 %

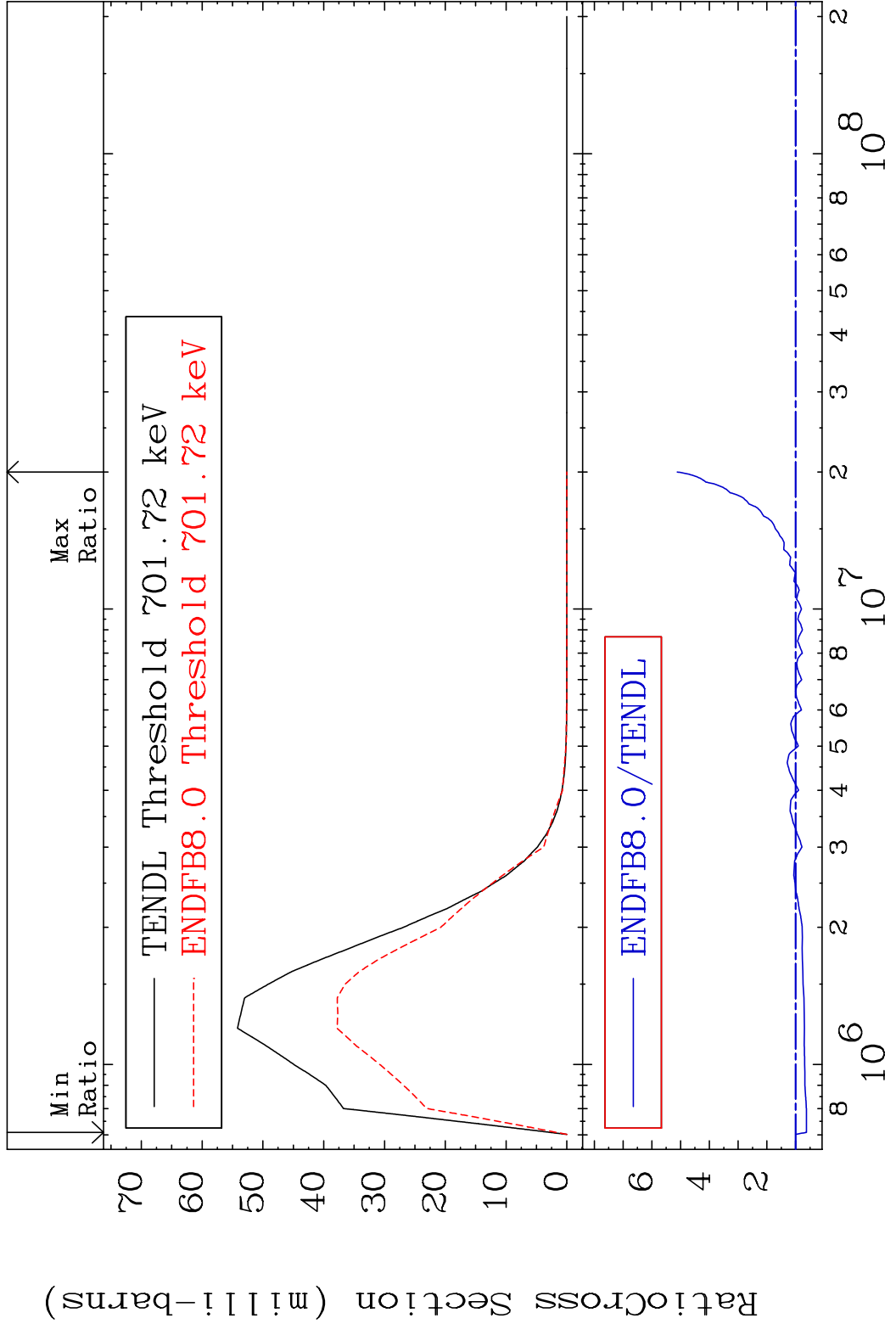


MAT 6240 MT= 61 (n,n') Level 62-Sm-149
 Cross Section -51.56 To 0.000 %

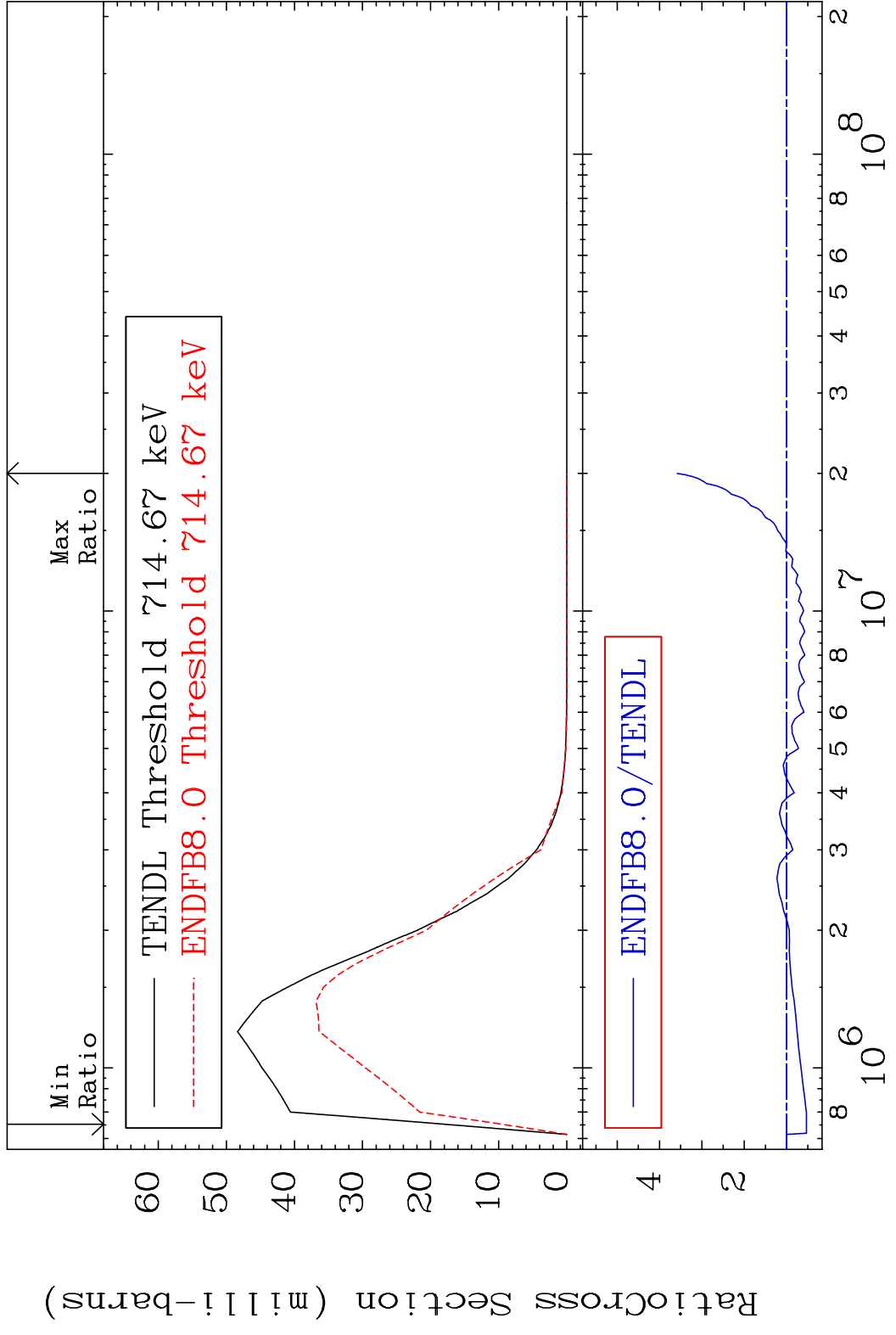


20 Incident Energy (eV) 62-Sm-149

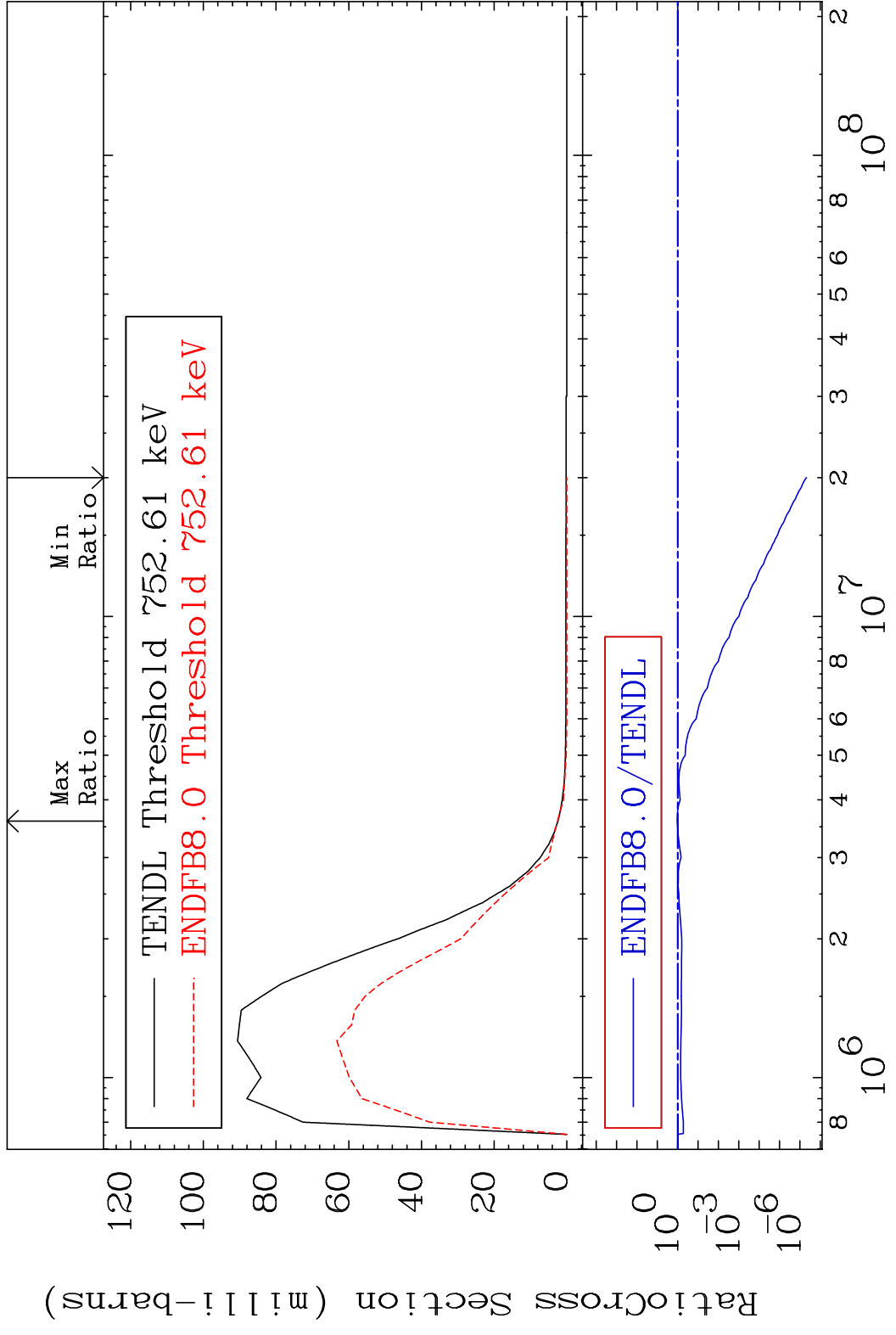
MAT 6240 MT= 62 (n, n') Level 62-Sm-149
 Cross Section -37.31 To 411.8 %



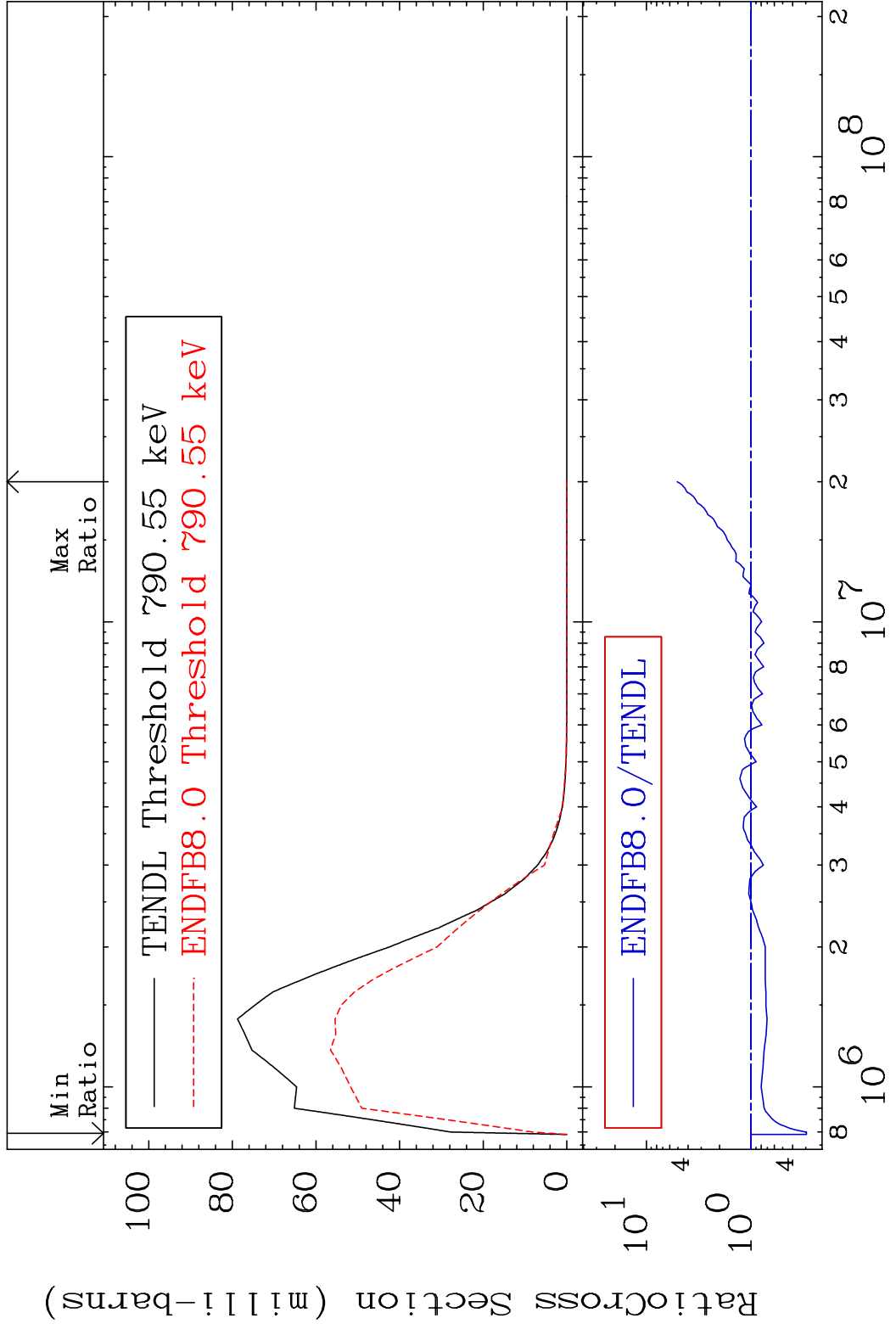
MAT 6240 MT= 63 (n, n') Level 62-Sm-149
 Cross Section -46.71 To 258.3 %



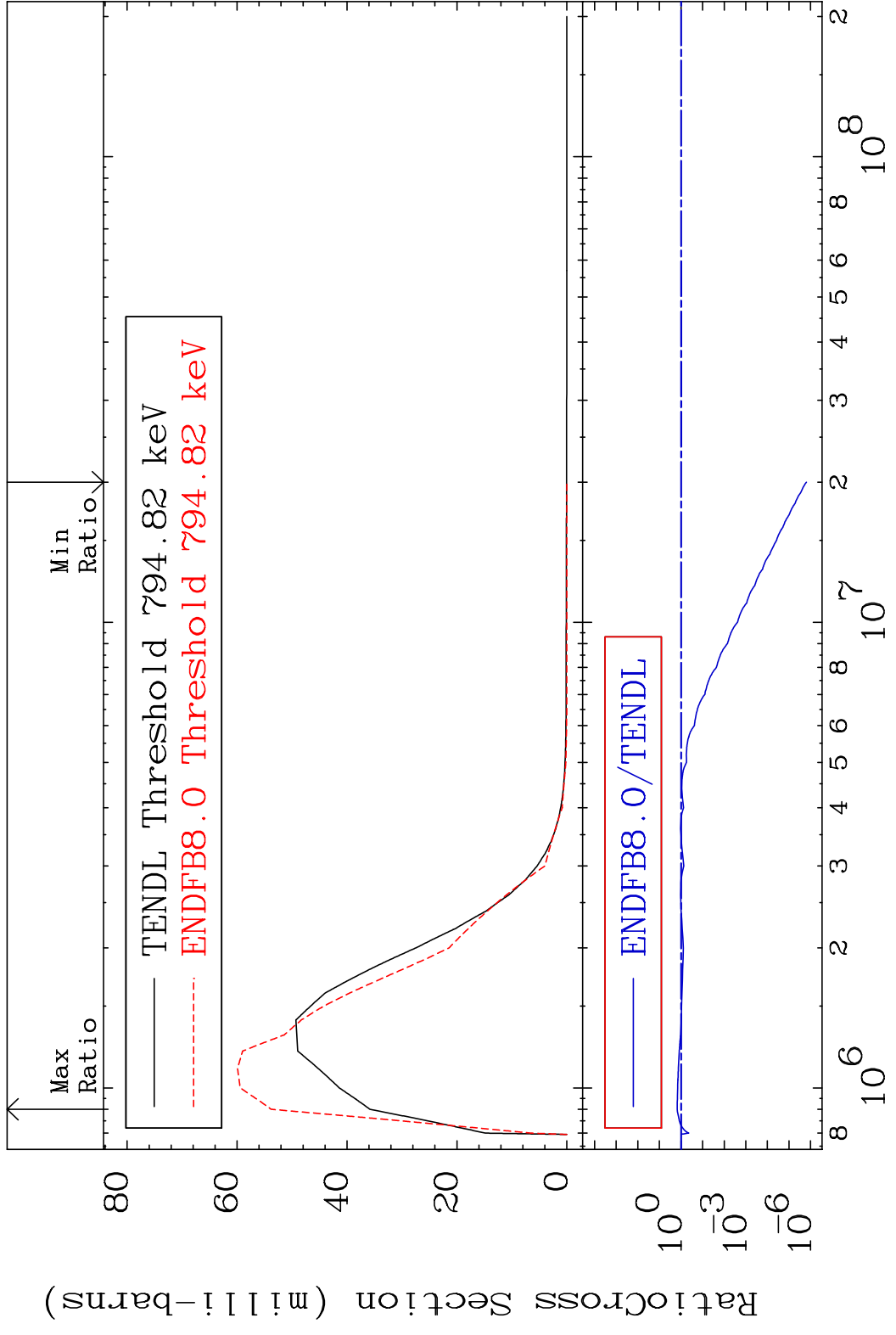
MAT 6240 MT= 64 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 5.099 %



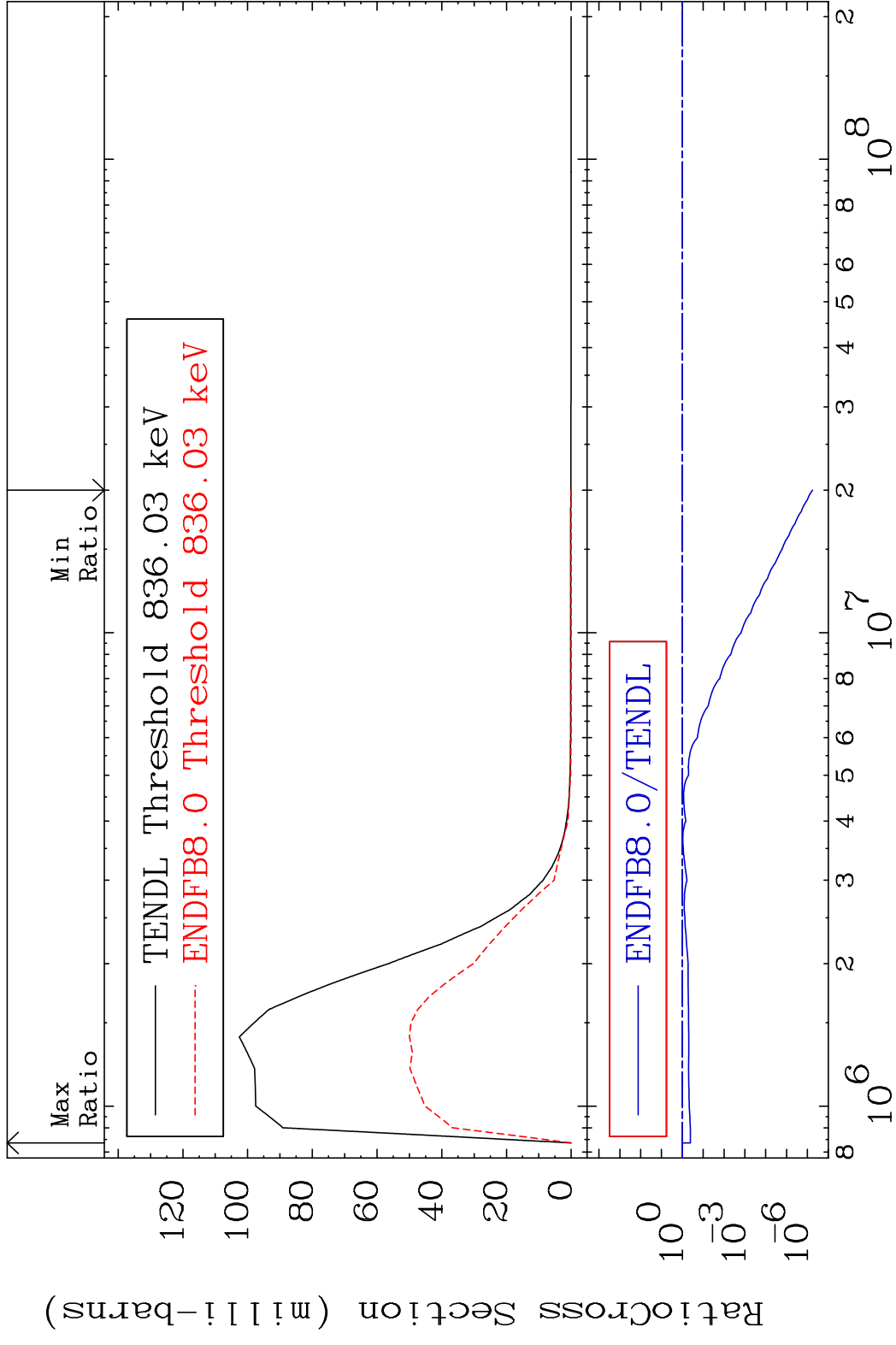
MAT 6240 MT= 65 (n, n') Level 62-Sm-149
 Cross Section -70.38 To 408.5 %



MAT 6240 MT= 66 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 50.15 %

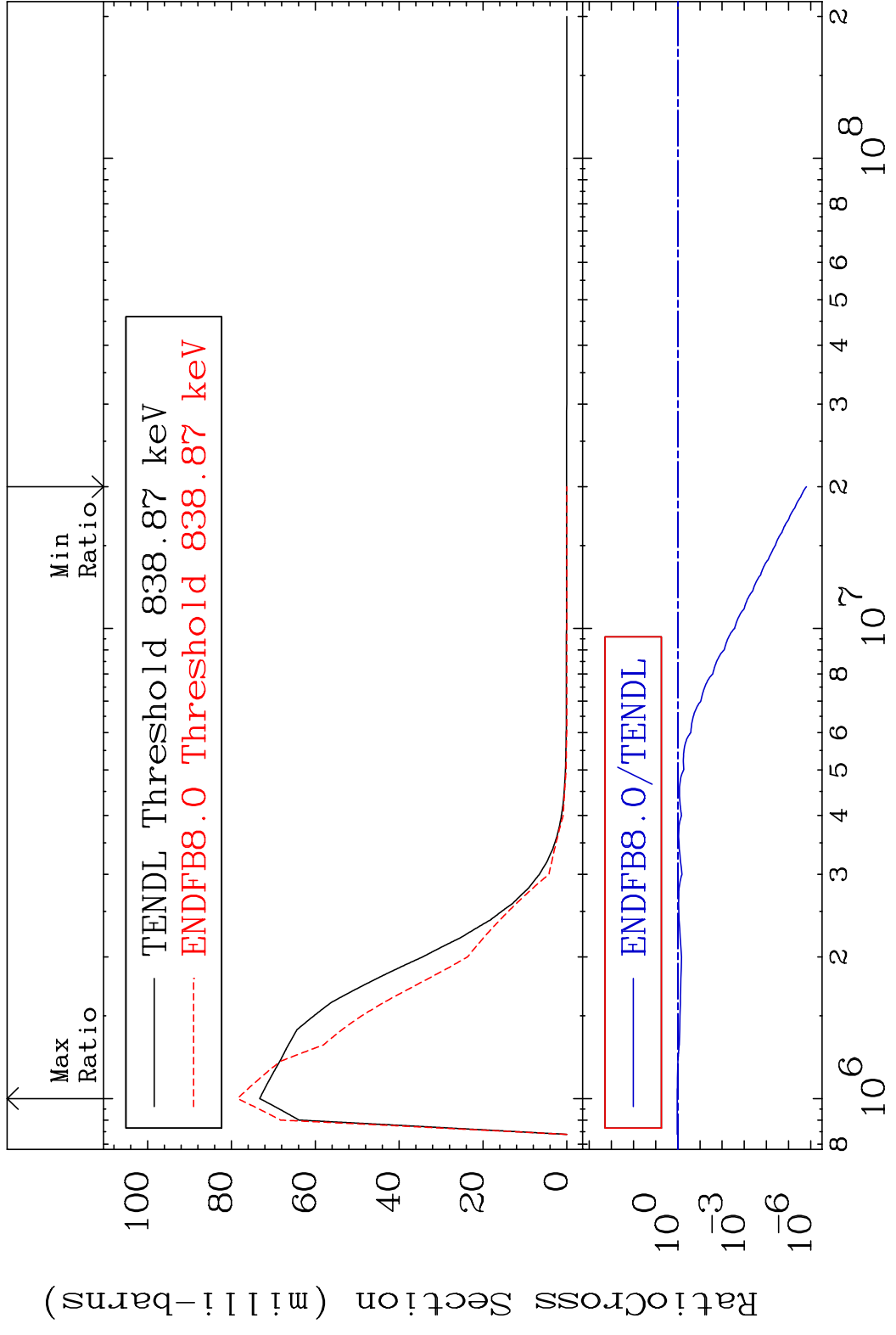


MAT 6240 MT= 67 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 0.000 %

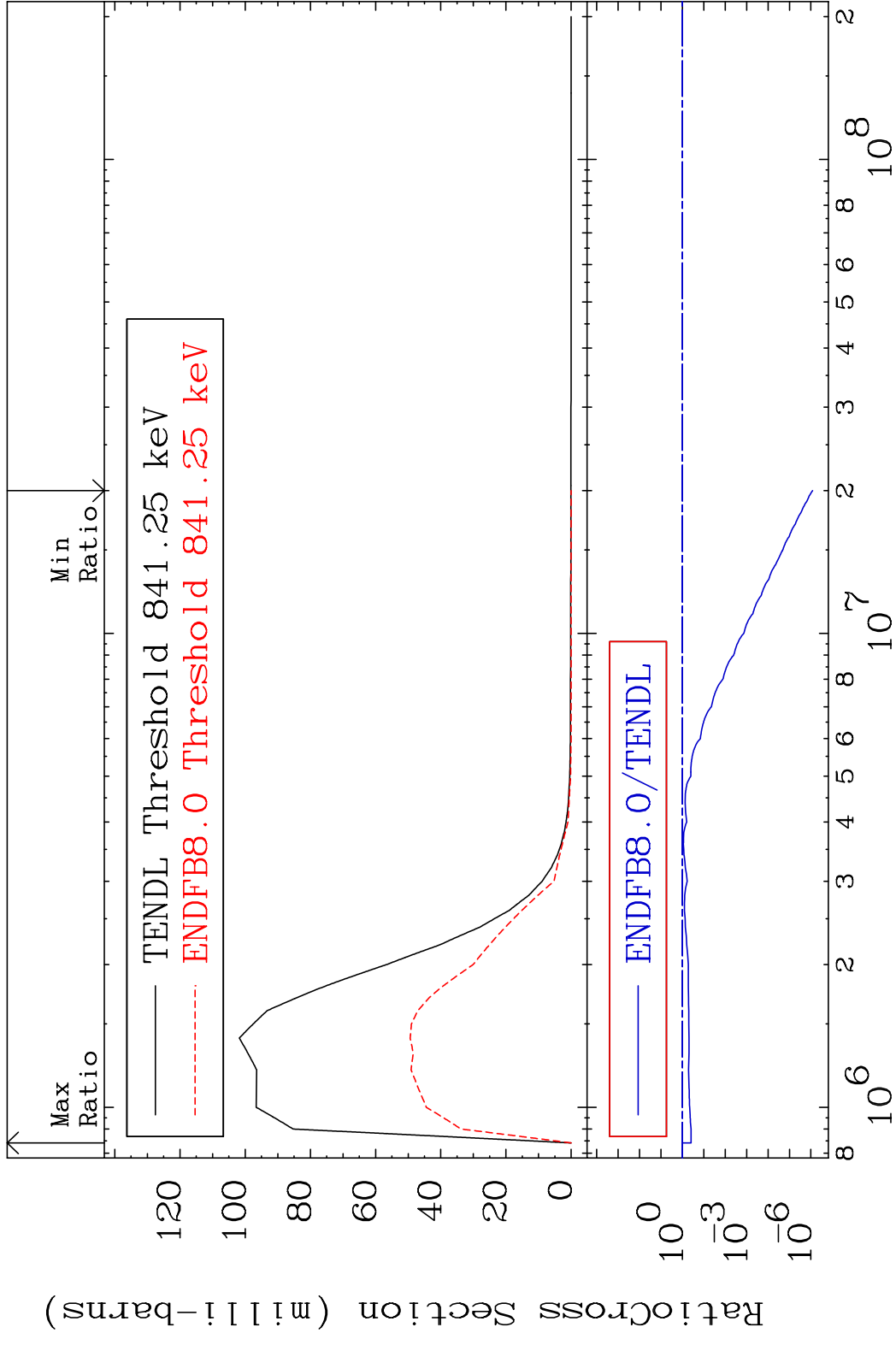


26 Incident Energy (eV) 62-Sm-149

MAT 6240 MT= 68 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 7.224 %

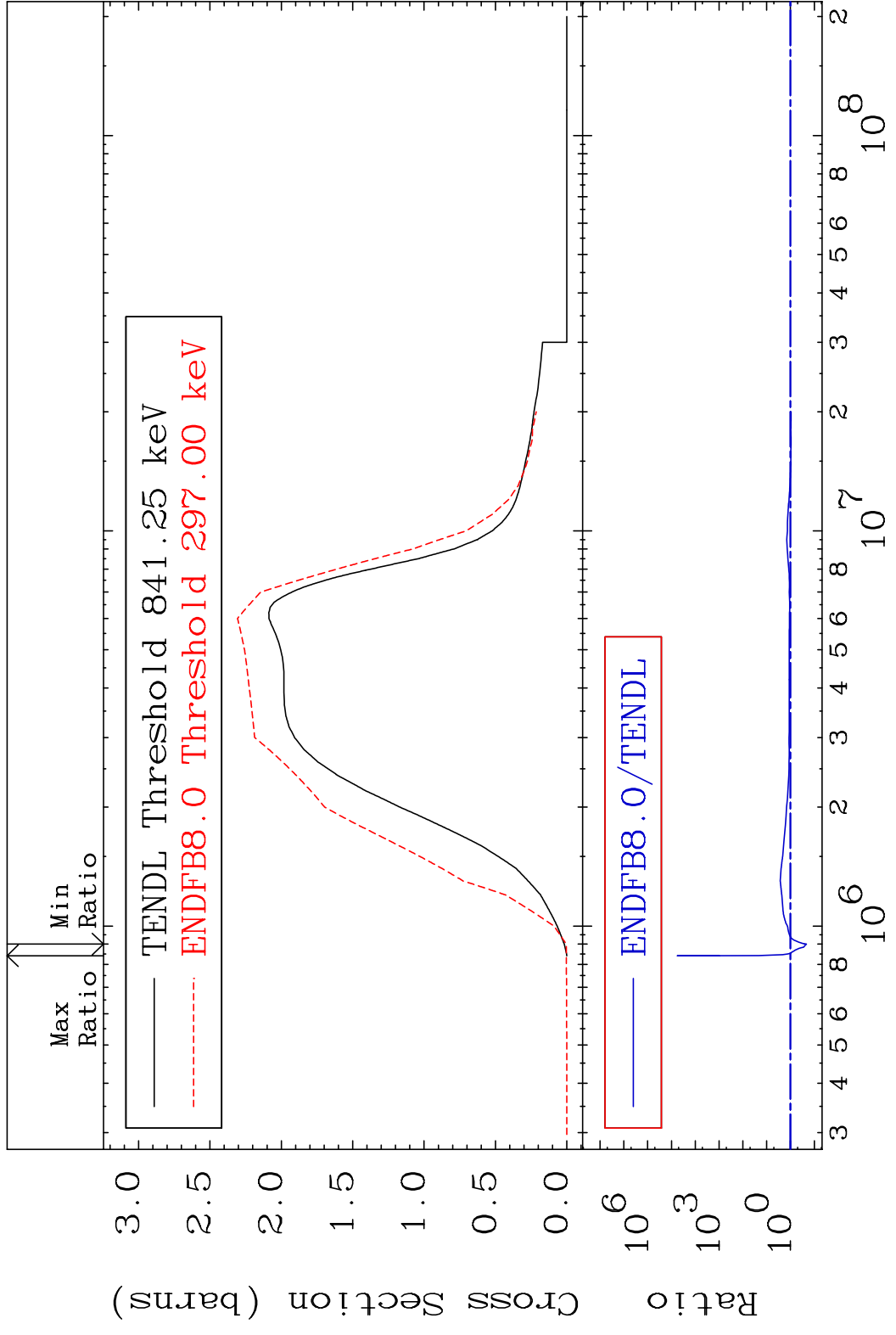


MAT 6240 MT= 69 (n, n') Level 62-Sm-149
 Cross Section -100.0 To 0.000 %



28 Incident Energy (eV) 62-Sm-149

MAT 6240 (n, n') Continuum 62-Sm-149
 Cross Section -78.57 To 9999. %

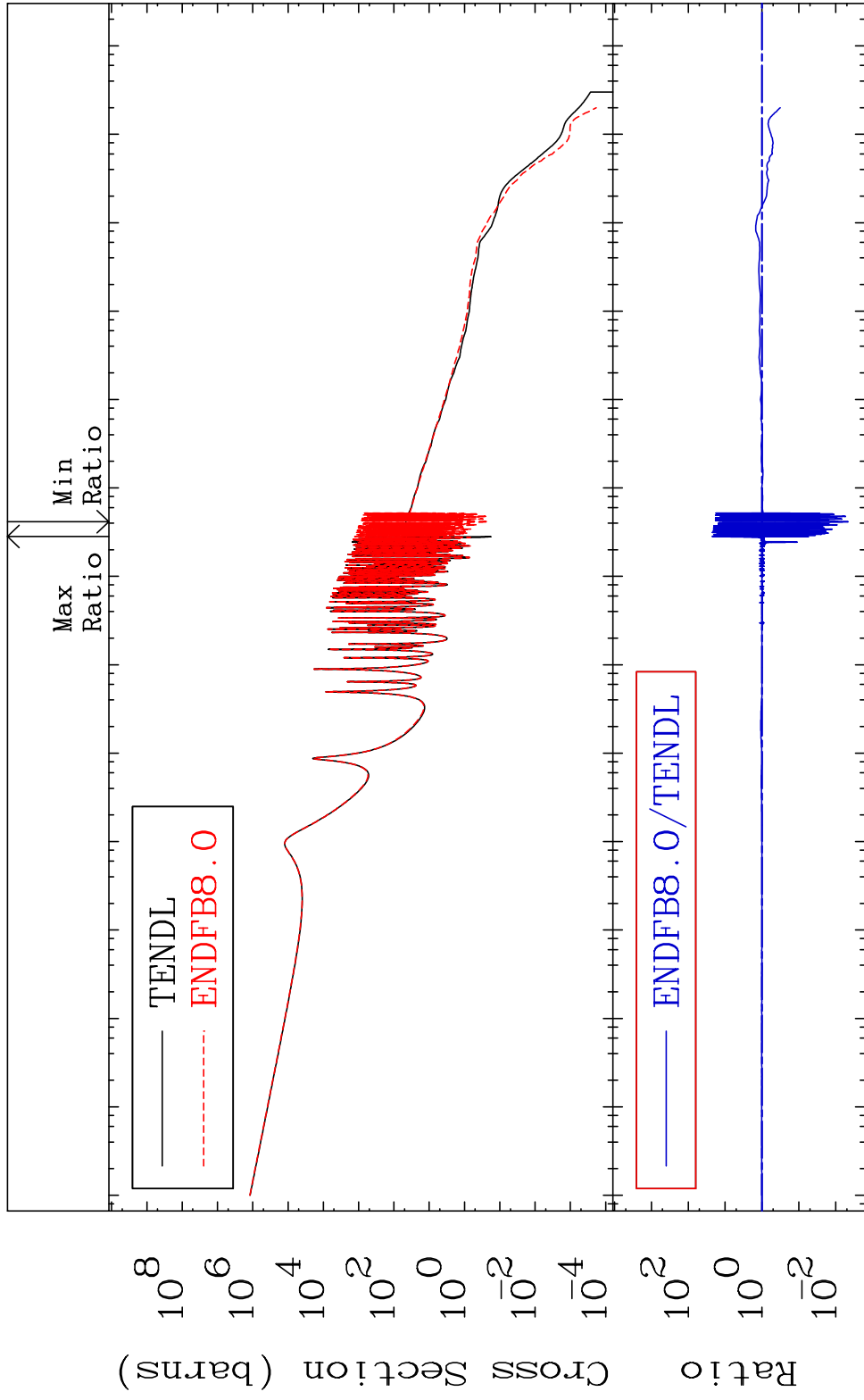


MAT 6240

(n, γ)

62-Sm-149

Cross Section -99.54 To 2121. %

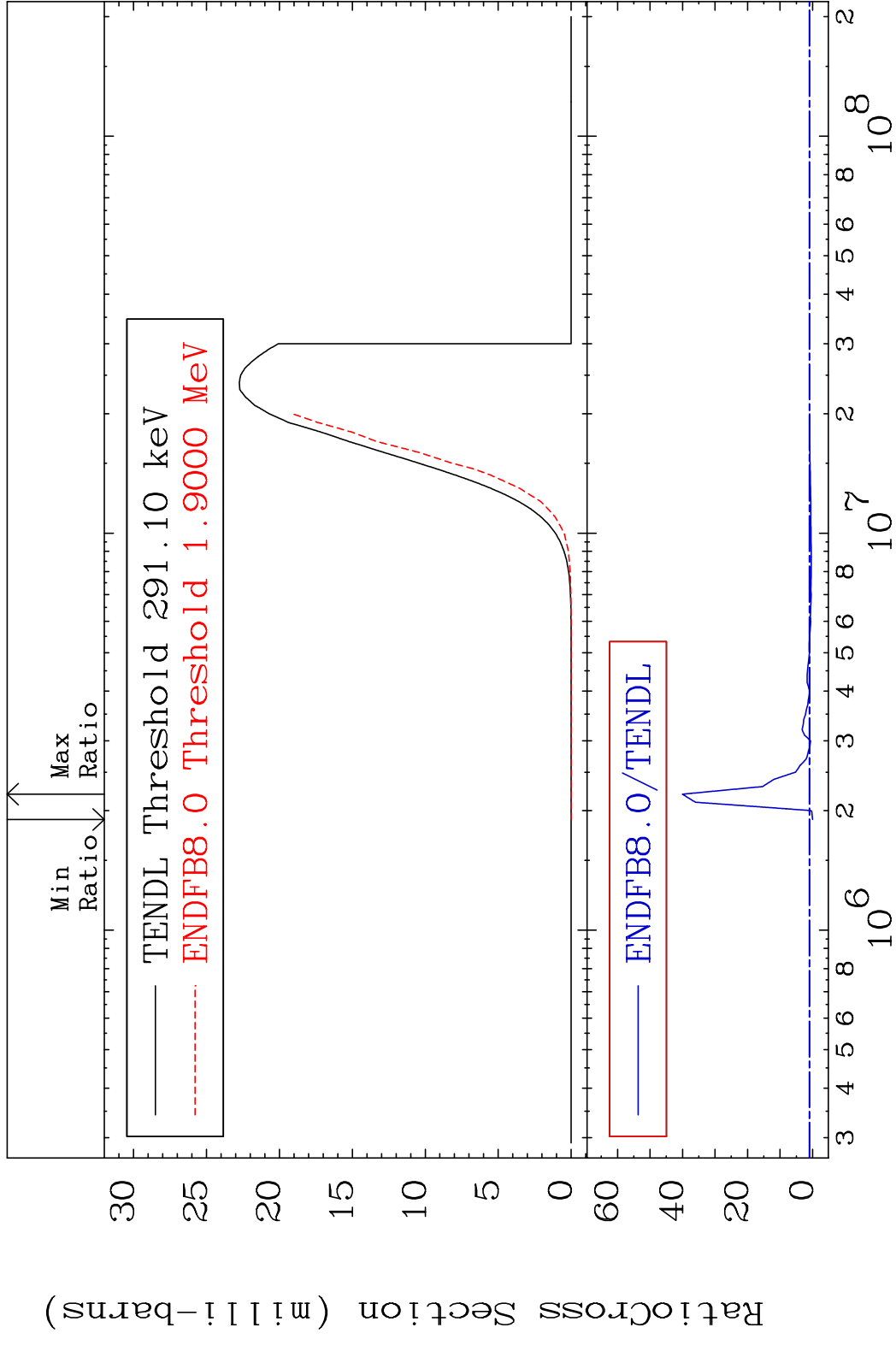


30

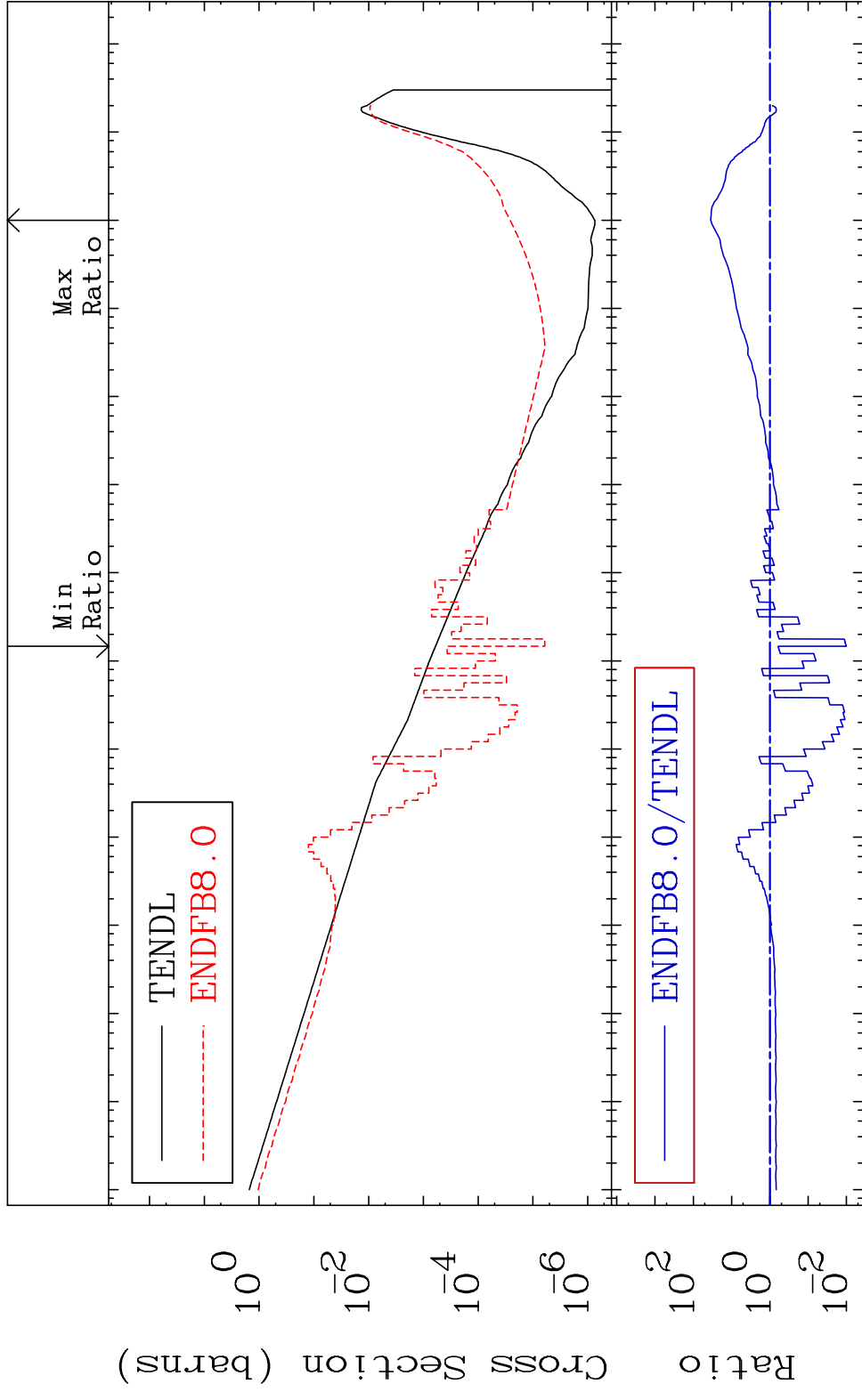
Incident Energy (eV)

62-Sm-149

MAT 6240 (n,p) 62-Sm-149
 Cross Section -100.0 To 3905. %



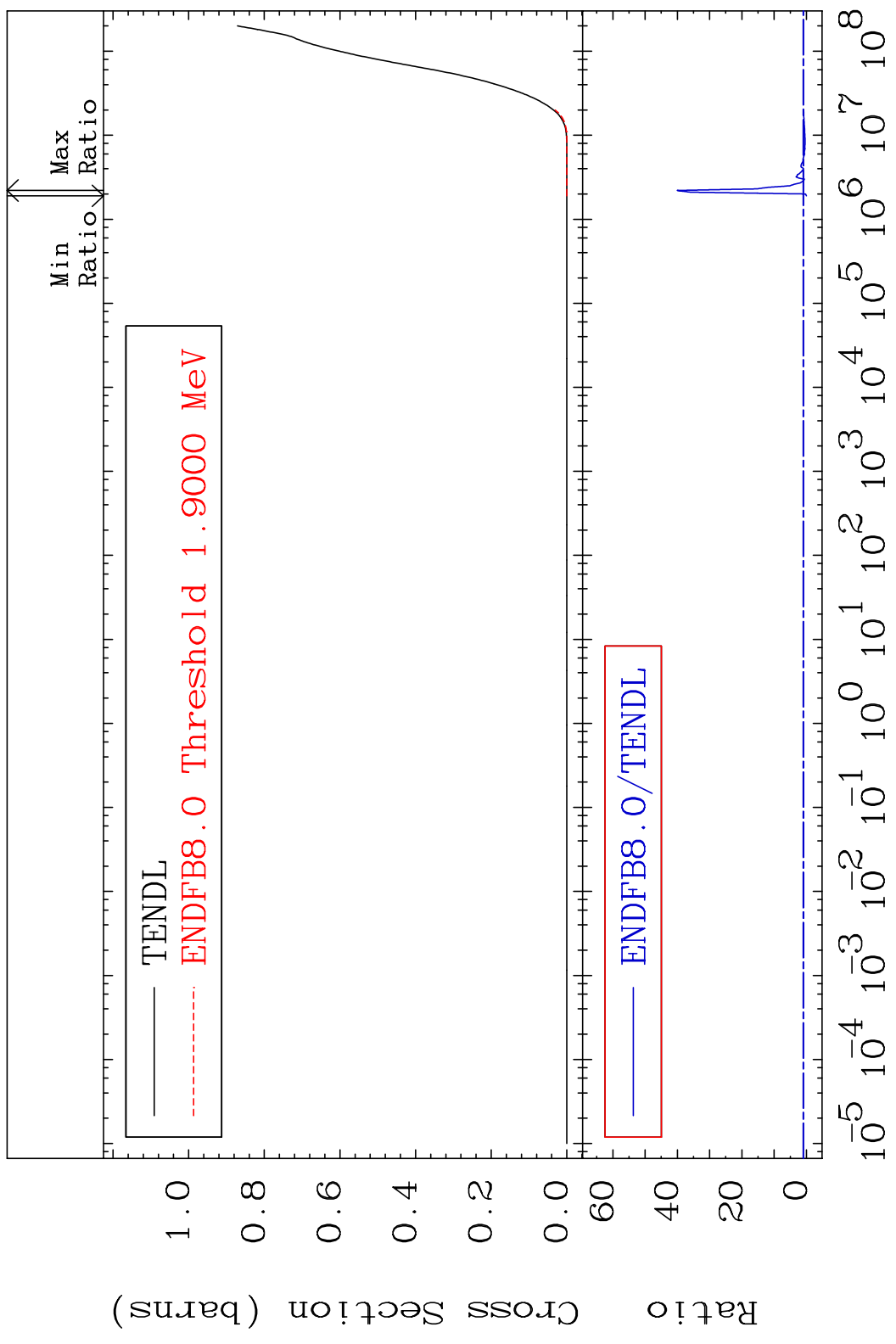
MAT 6240 (n, α) Cross Section -98.99 To $3416. \%$ 62-Sm-149



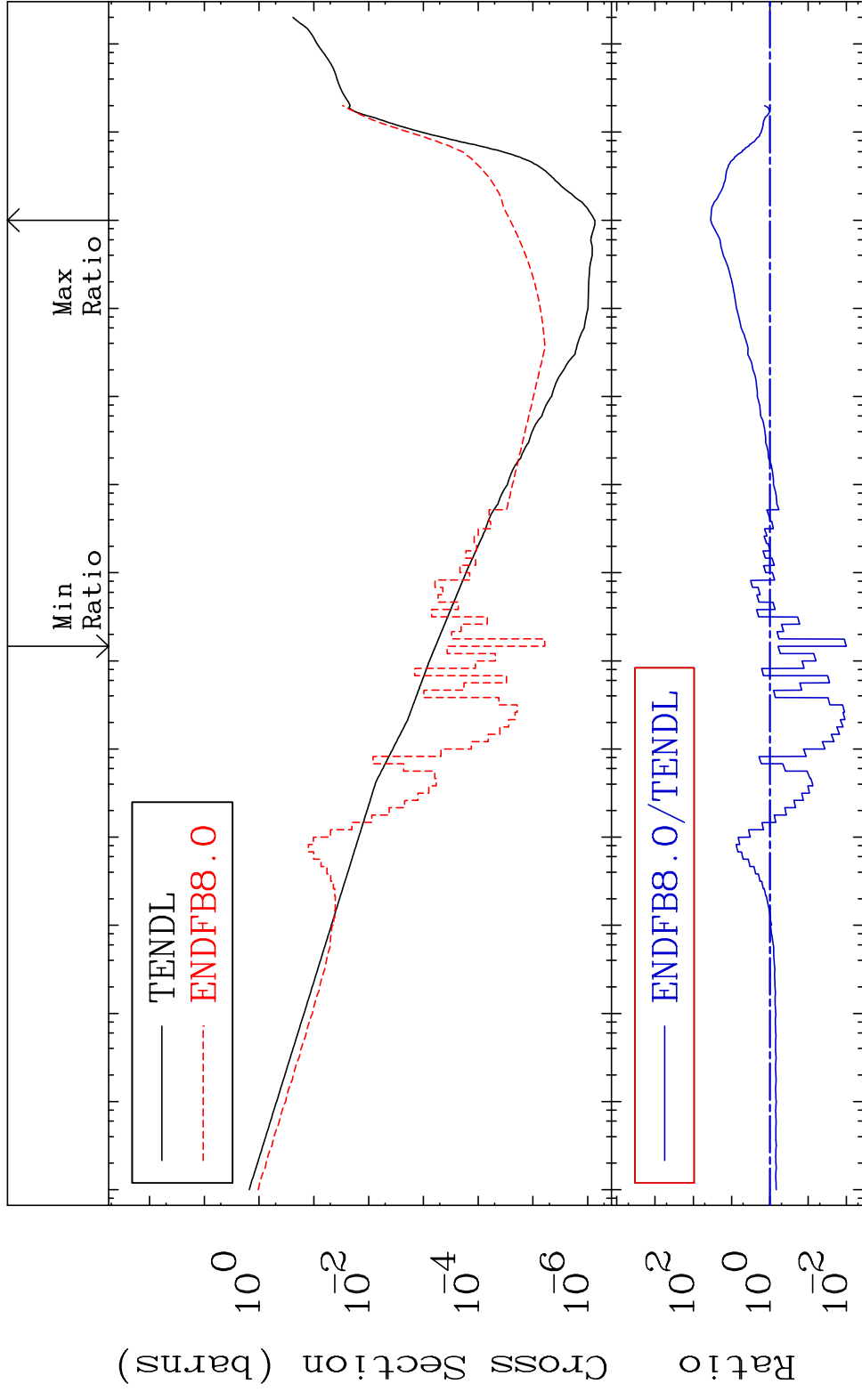
MAT 6240

Hydrogen Production
Cross Section -100.0 To 3905. %

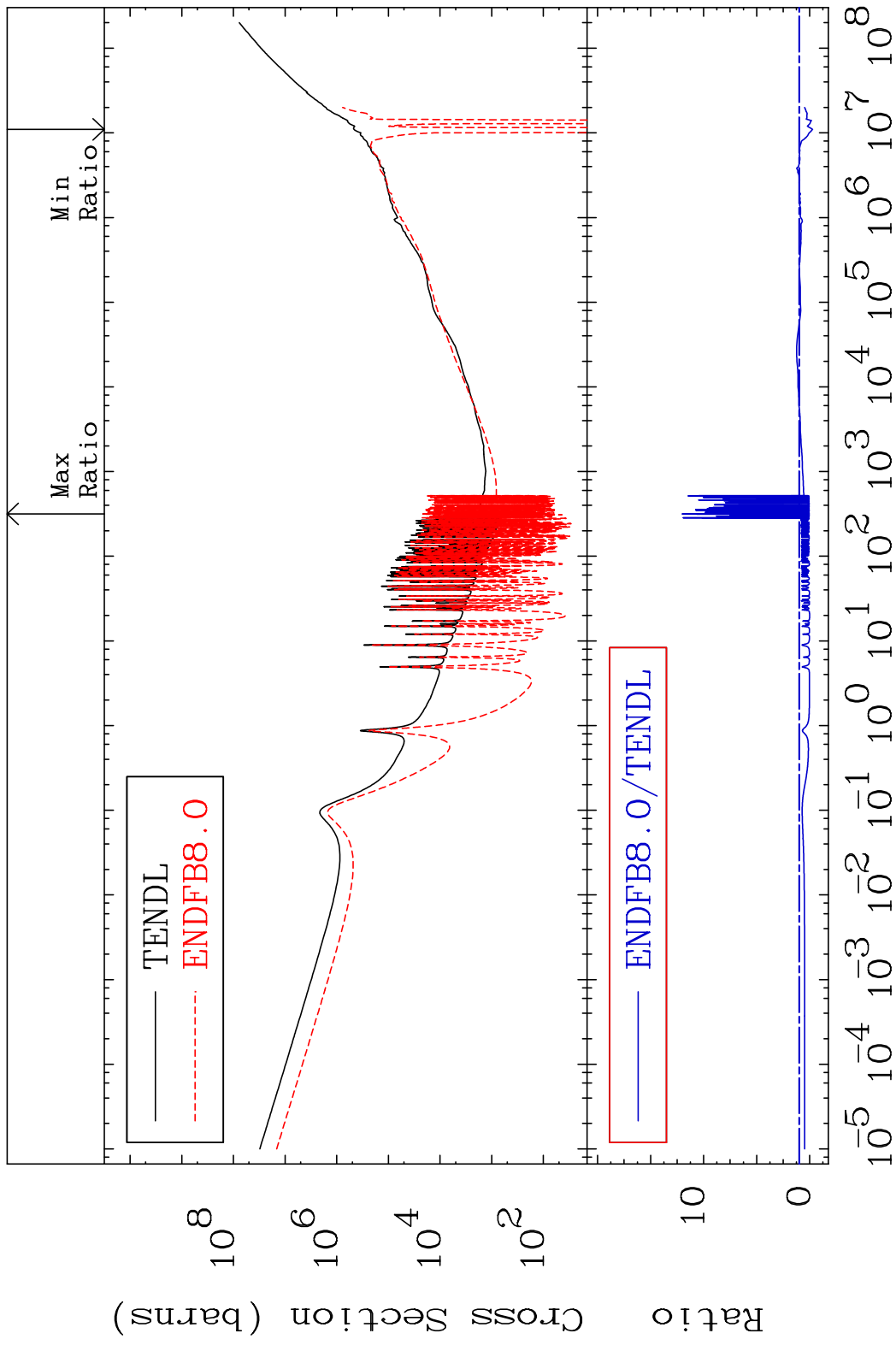
62-Sm-149



MAT 6240 He-4 Production 62-Sm-149
 Cross Section -98.99 To 3416. %



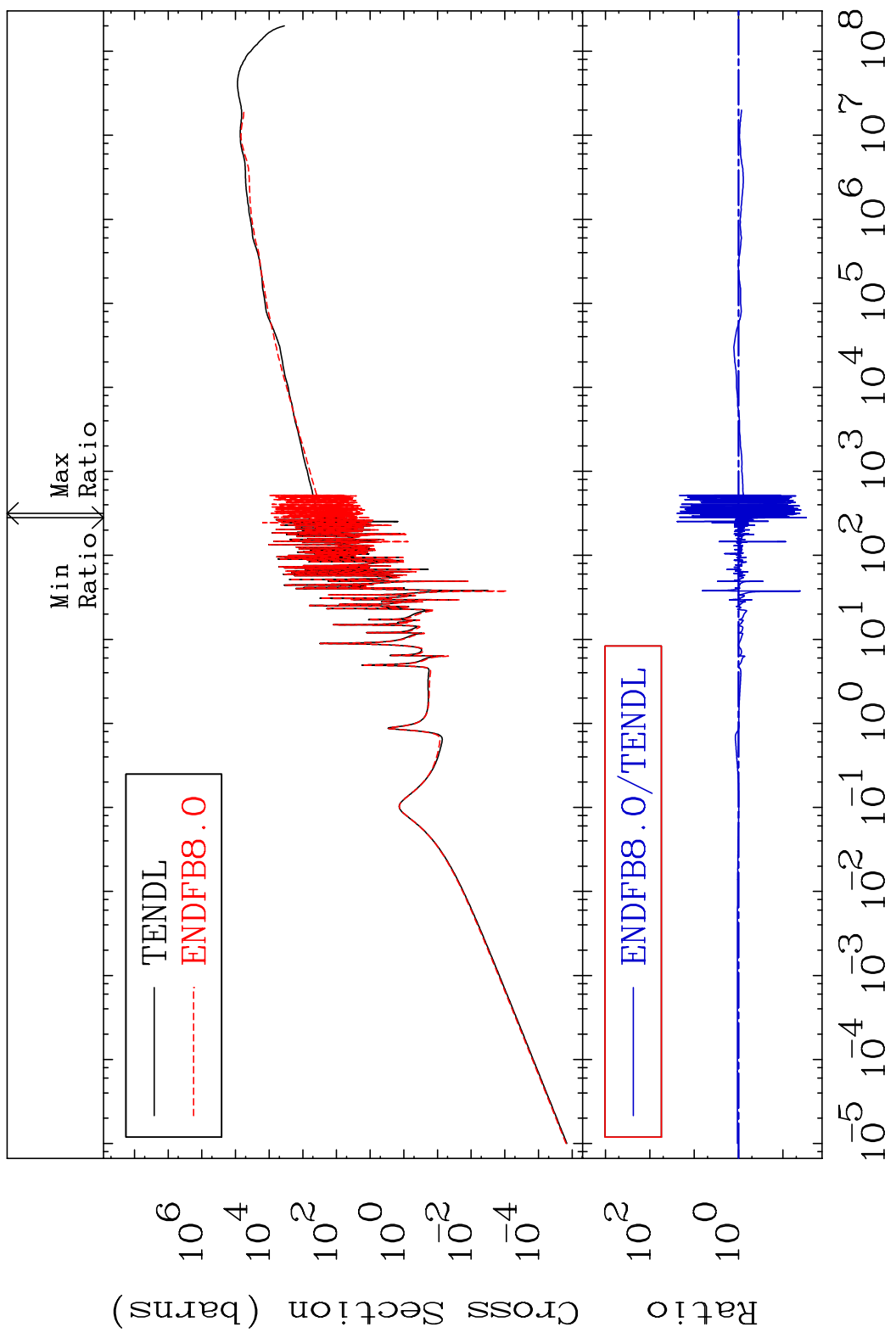
MAT 6240 Kerma total (eV-barns) 62-Sm-149
Cross Section -127.2 To 1101. %



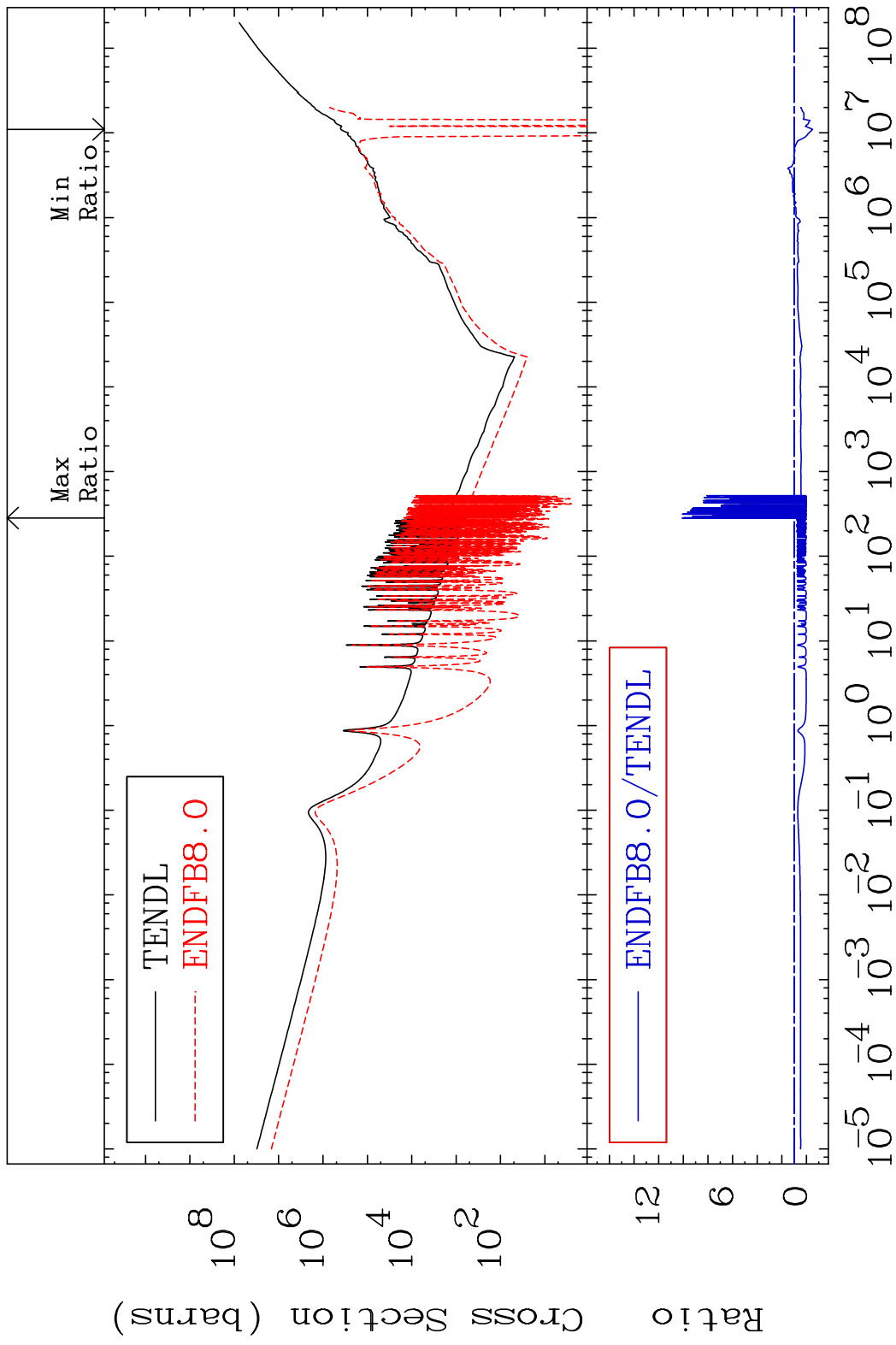
35 Incident Energy (eV) 62-Sm-149

MAT 6240

Kerma elastic Cross Section -97.06 To 2311. %
62-Sm-149

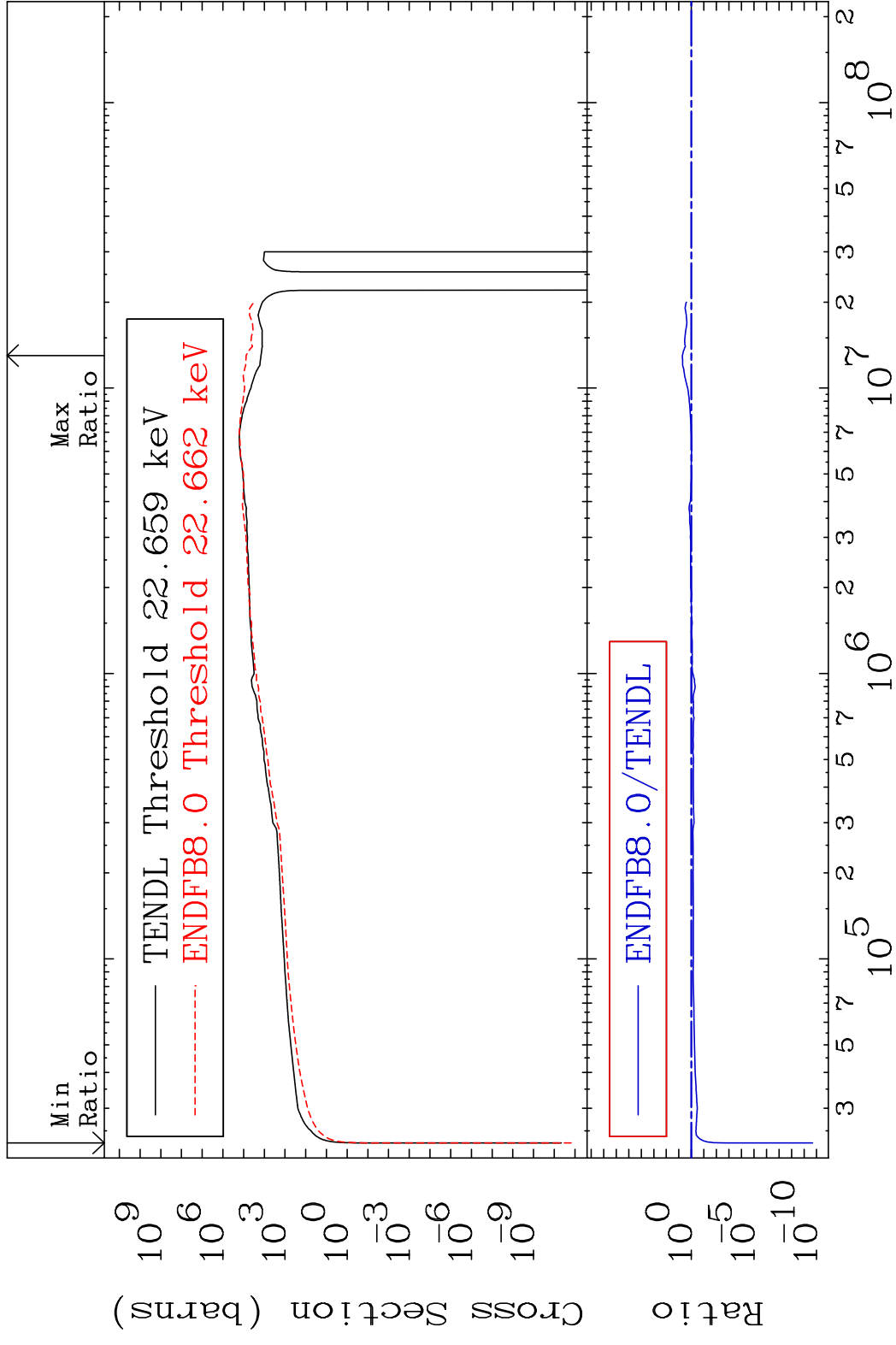


MAT 6240 Kerma non-elastic (all but mt2) 62-Sm-149
 Cross Section -149.6 To 907.8 %

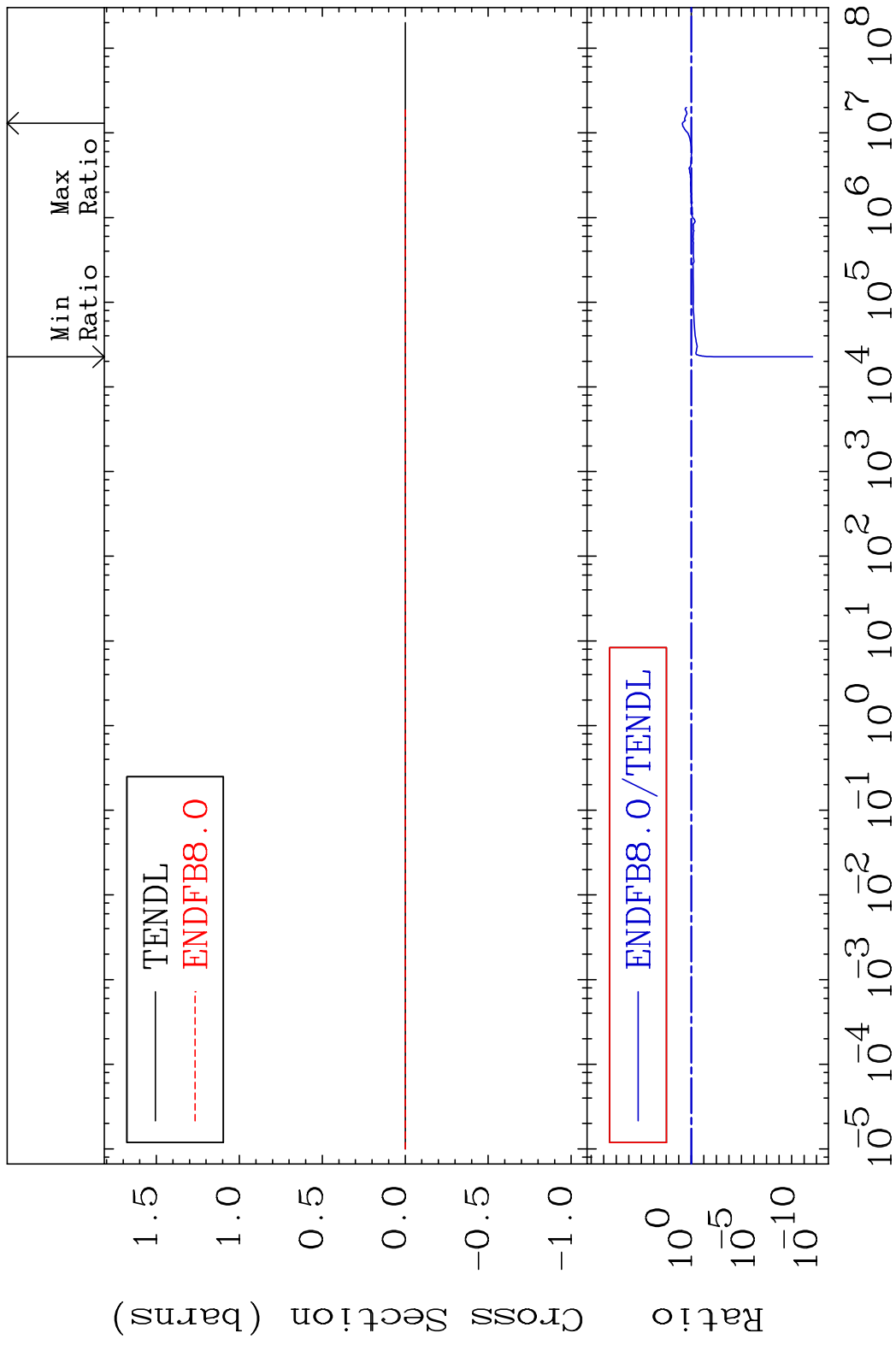


37 Incident Energy (eV) 62-Sm-149

MAT 6240 Kerma inelastic (mt51-91) 62-Sm-149
 Cross Section -100.0 To 423.5 %

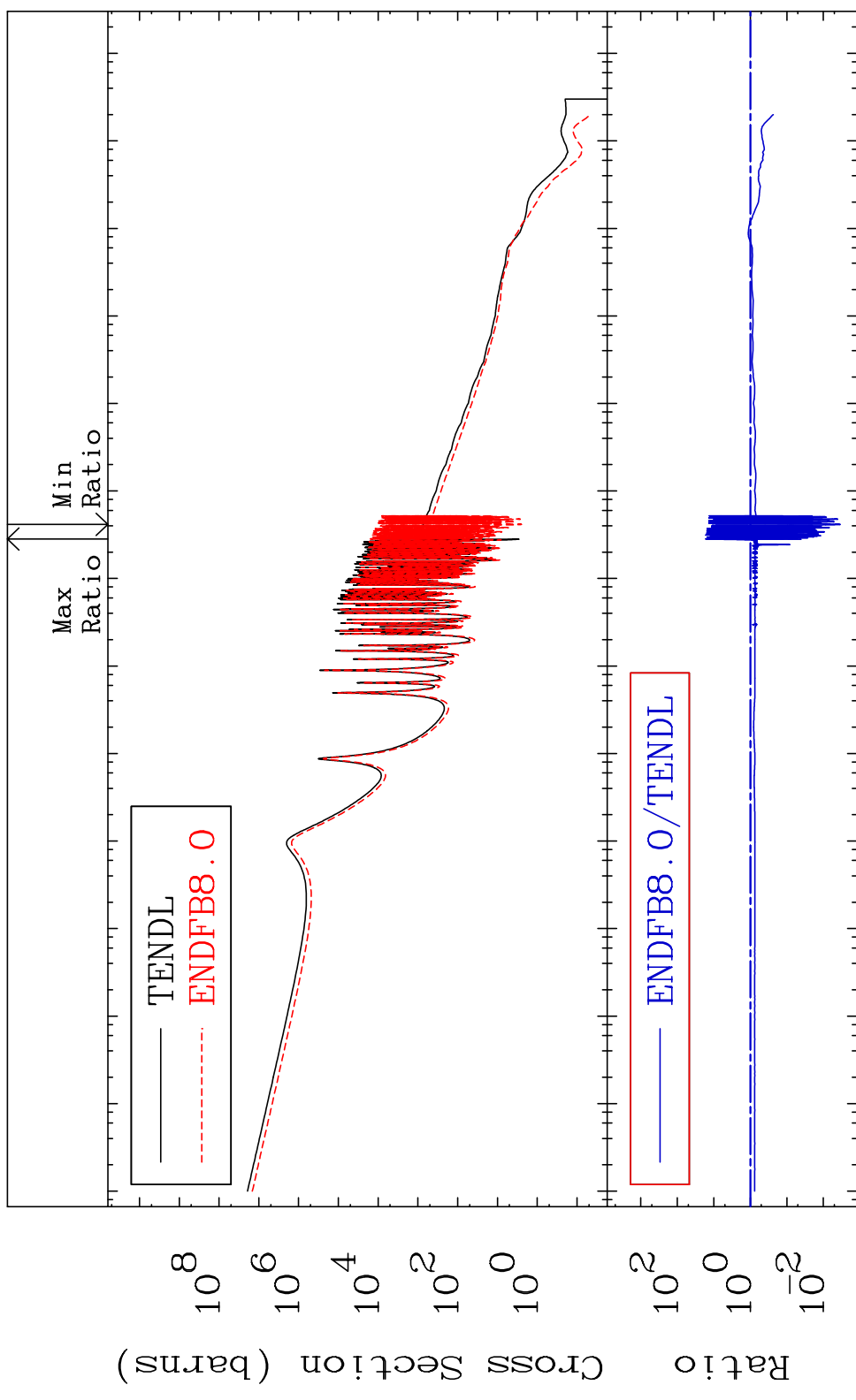


MAT 6240 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-149
 Cross Section -100.0 To 423.5 %



MAT 6240

Kerma capture (mt102) 62-Sm-149
Cross Section -99.66 To 1561. %



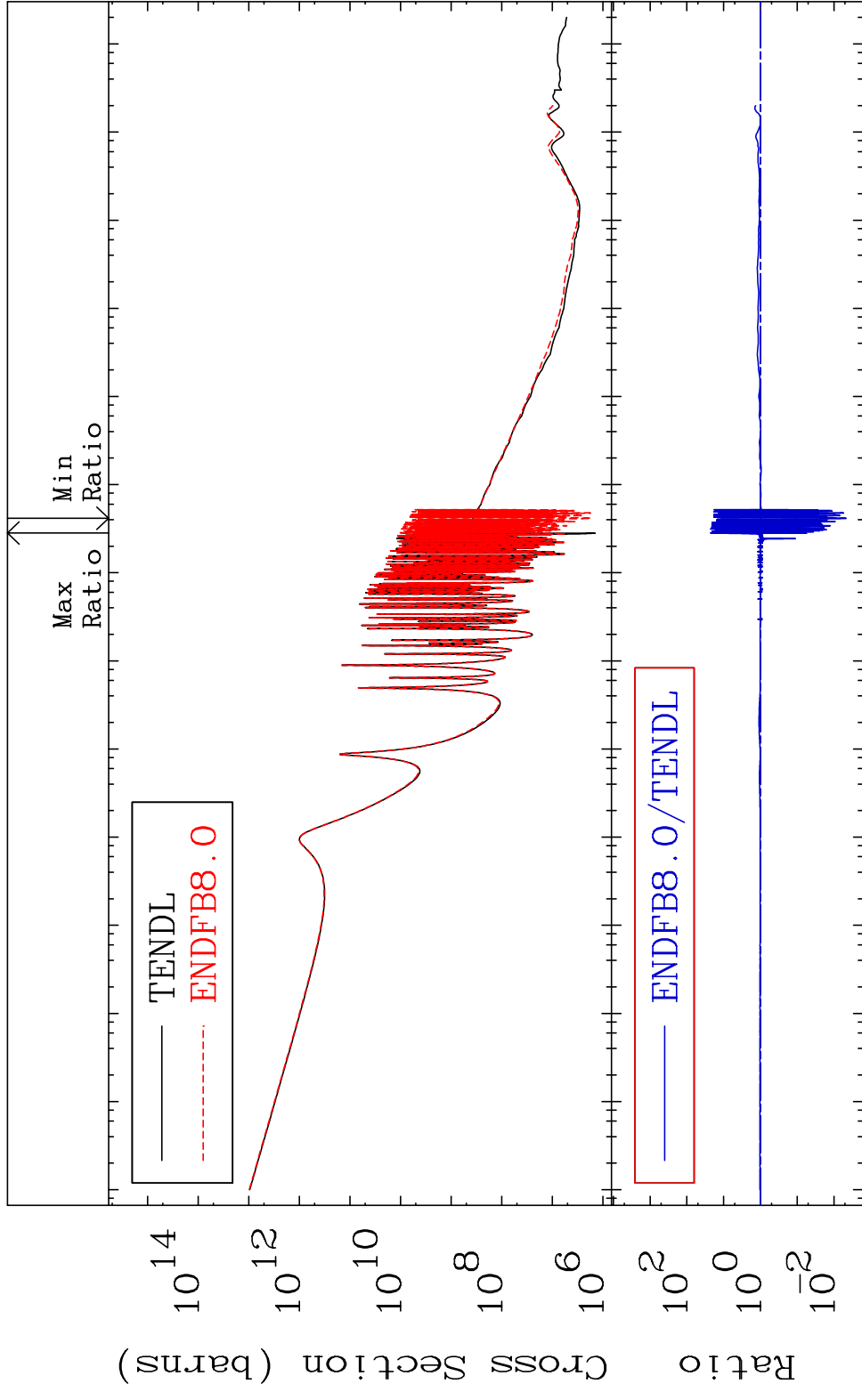
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

40

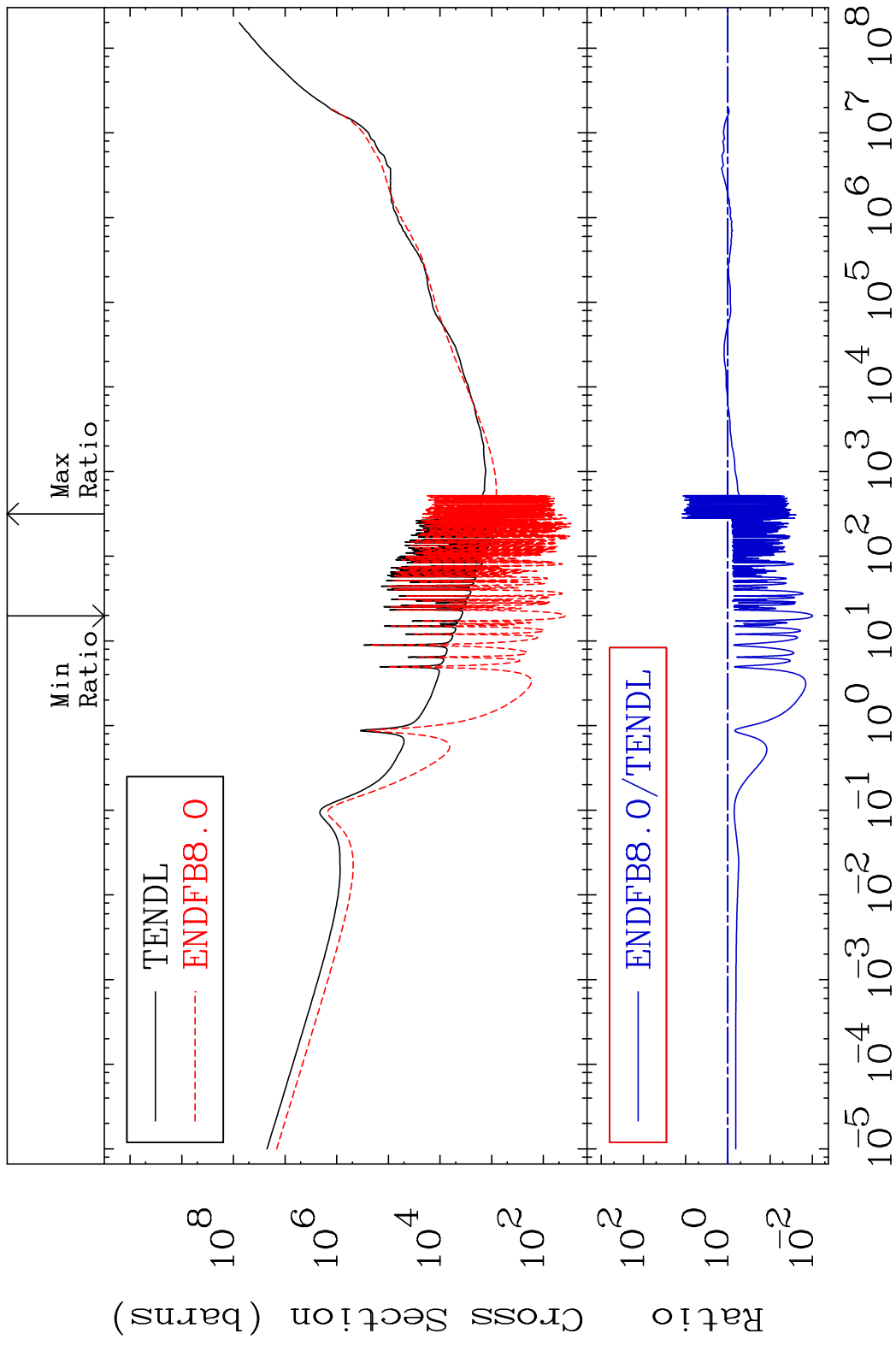
Incident Energy (eV)

62-Sm-149

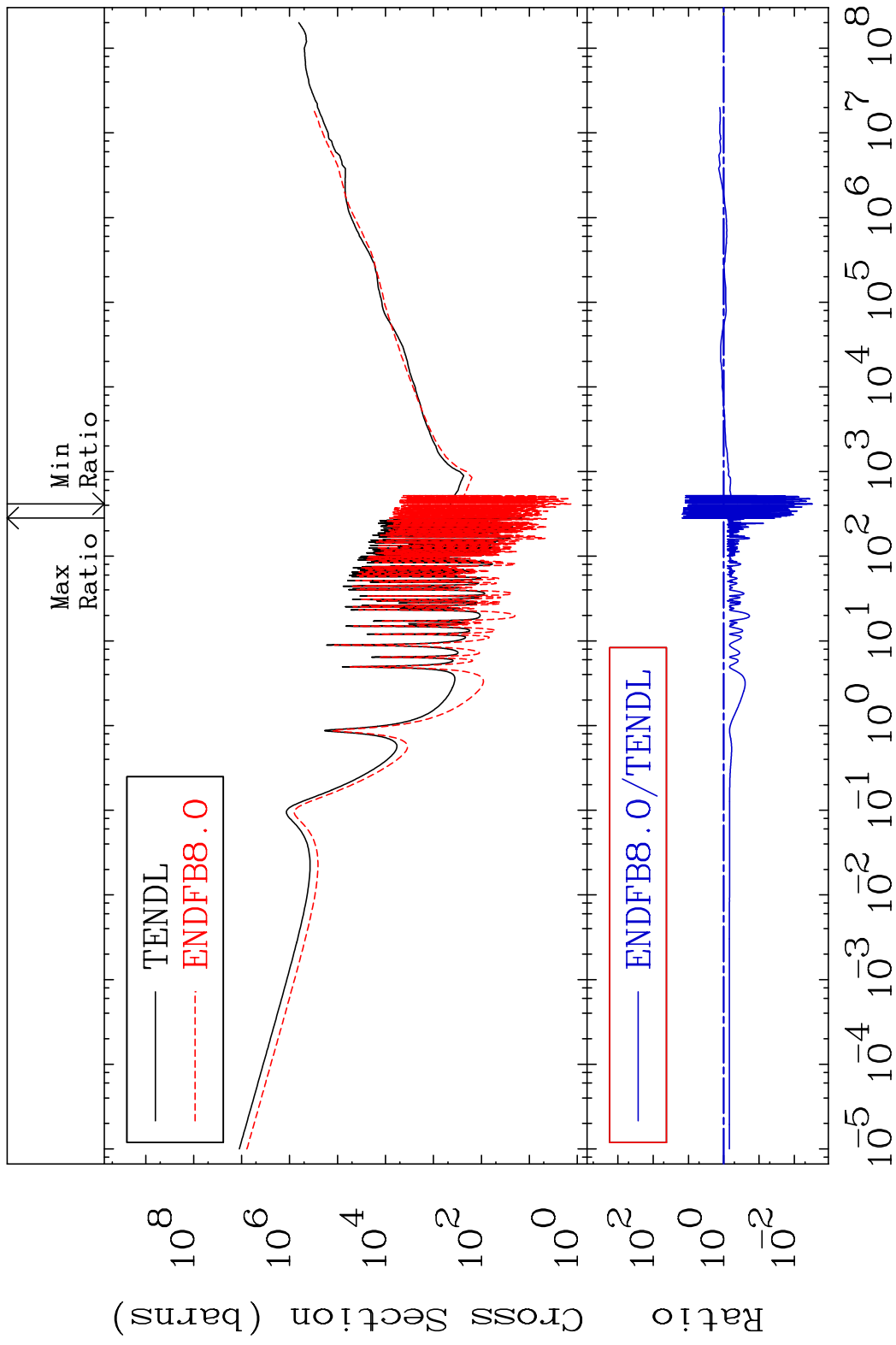
MAT 6240 Total photon (eV-barns) 62-Sm-149
Cross Section -99.54 To 2143. %



MAT 6240 Total kinematic kerma (high limit) 62-Sm-149
 Cross Section -99.02 To 1098. %



MAT 6240 Dpa total (eV-barns) 62-Sm-149
Cross Section -99.69 To 1389. %



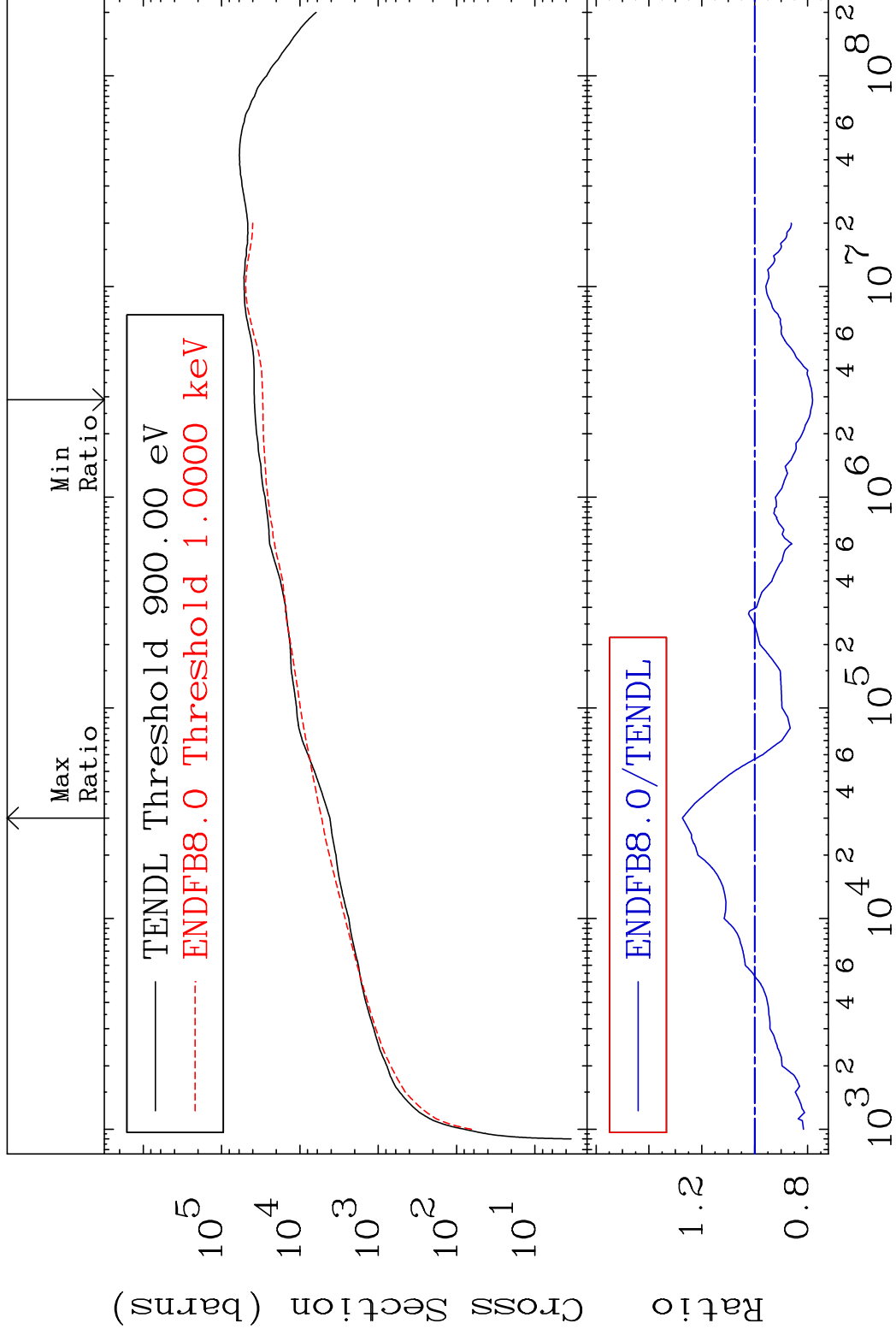
43 Incident Energy (eV) 62-Sm-149

MAT 6240

Dpa elastic (mt2)

62-Sm-149

Cross Section -21.91 To 27.35 %

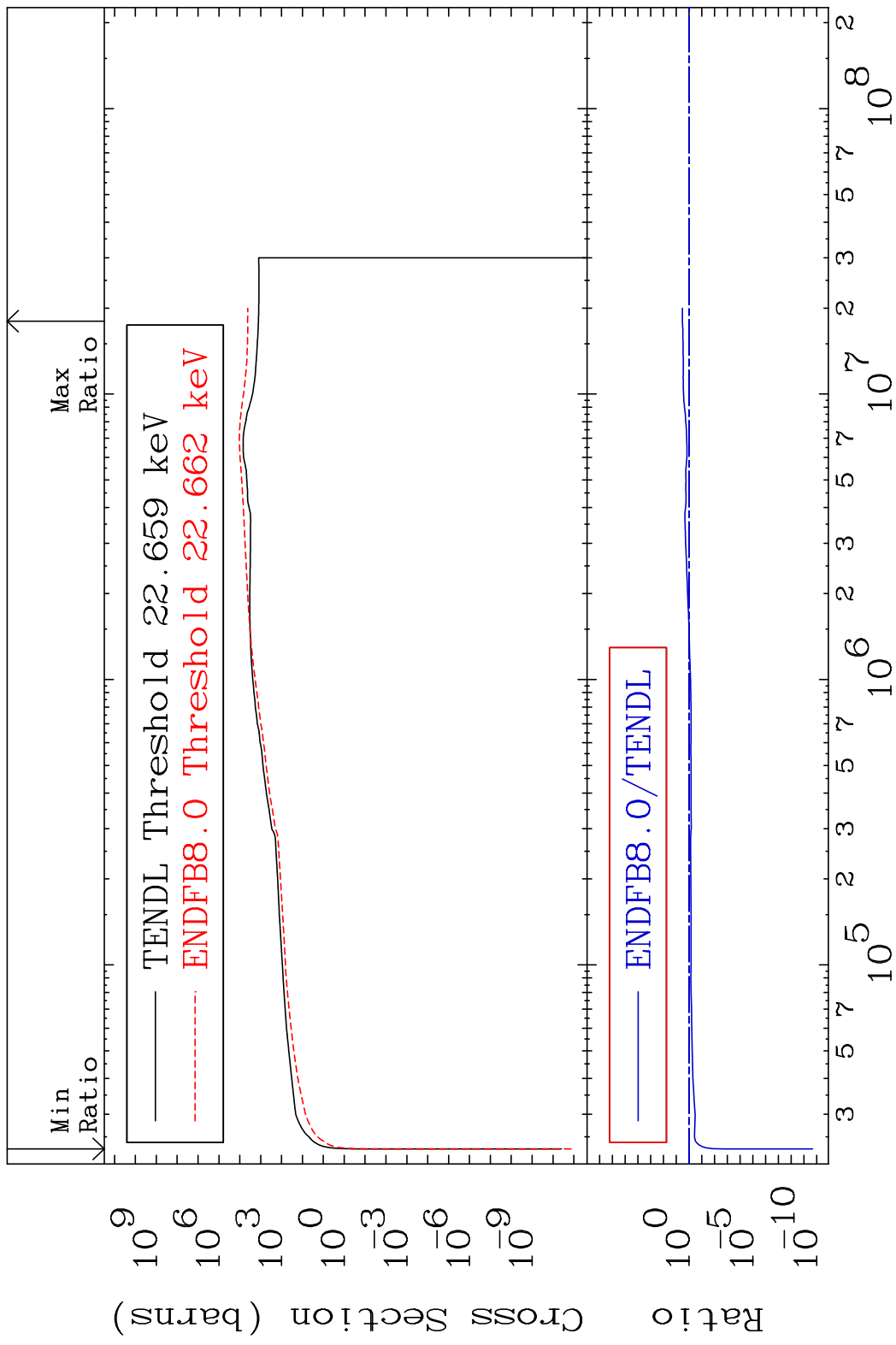


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Incident Energy (eV)

62-Sm-149

MAT 6240 Dpa inelastic (mt51-91) 62-Sm-149
 Cross Section -100.0 To 233.7 %



MAT 6240 Dpa disappearance (mt102 -120) 62-Sm-149
 Cross Section -99.69 To 1389. %

