

Program Complot
(Version 2021-1)

by

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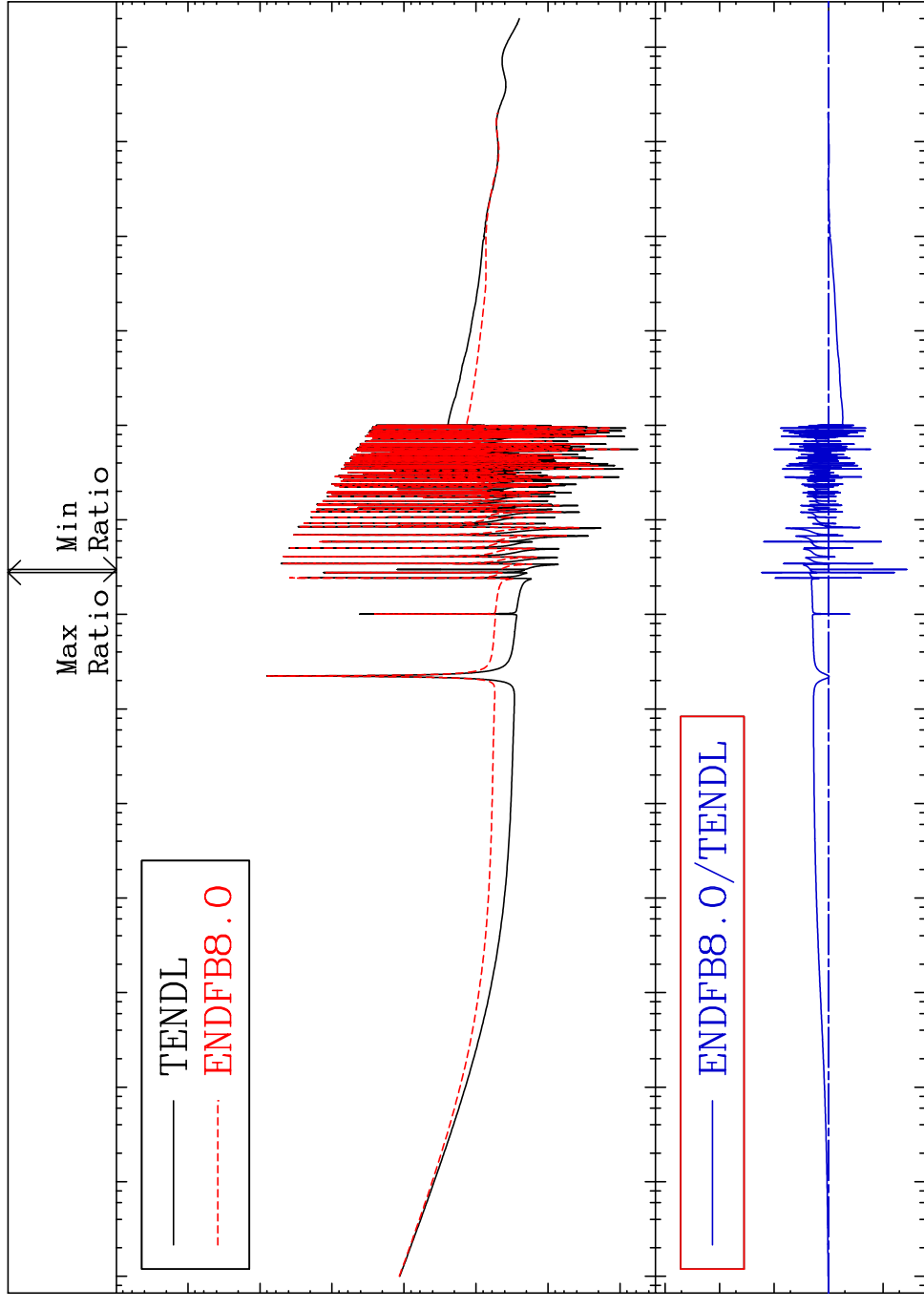
Press Mouse Button to Start

MAT 6443

Total

64-Gd-158

Cross Section -96.40 To 1577. %



Ratio
Cross Section (barns)

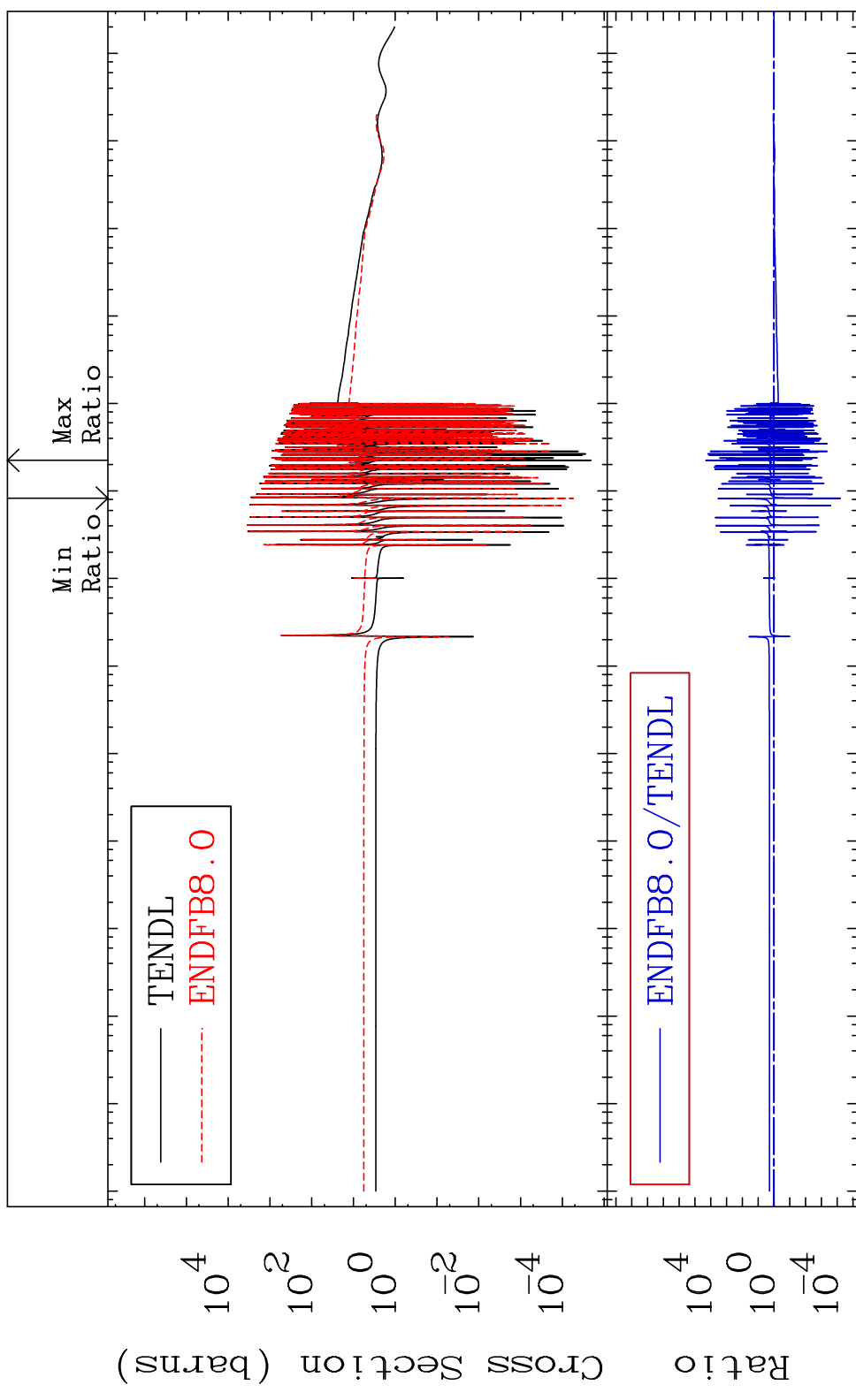
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Incident Energy (eV)

64-Gd-158

MAT 6443

Elastic Cross Section -99.99 To 9999. % 64-Gd-158

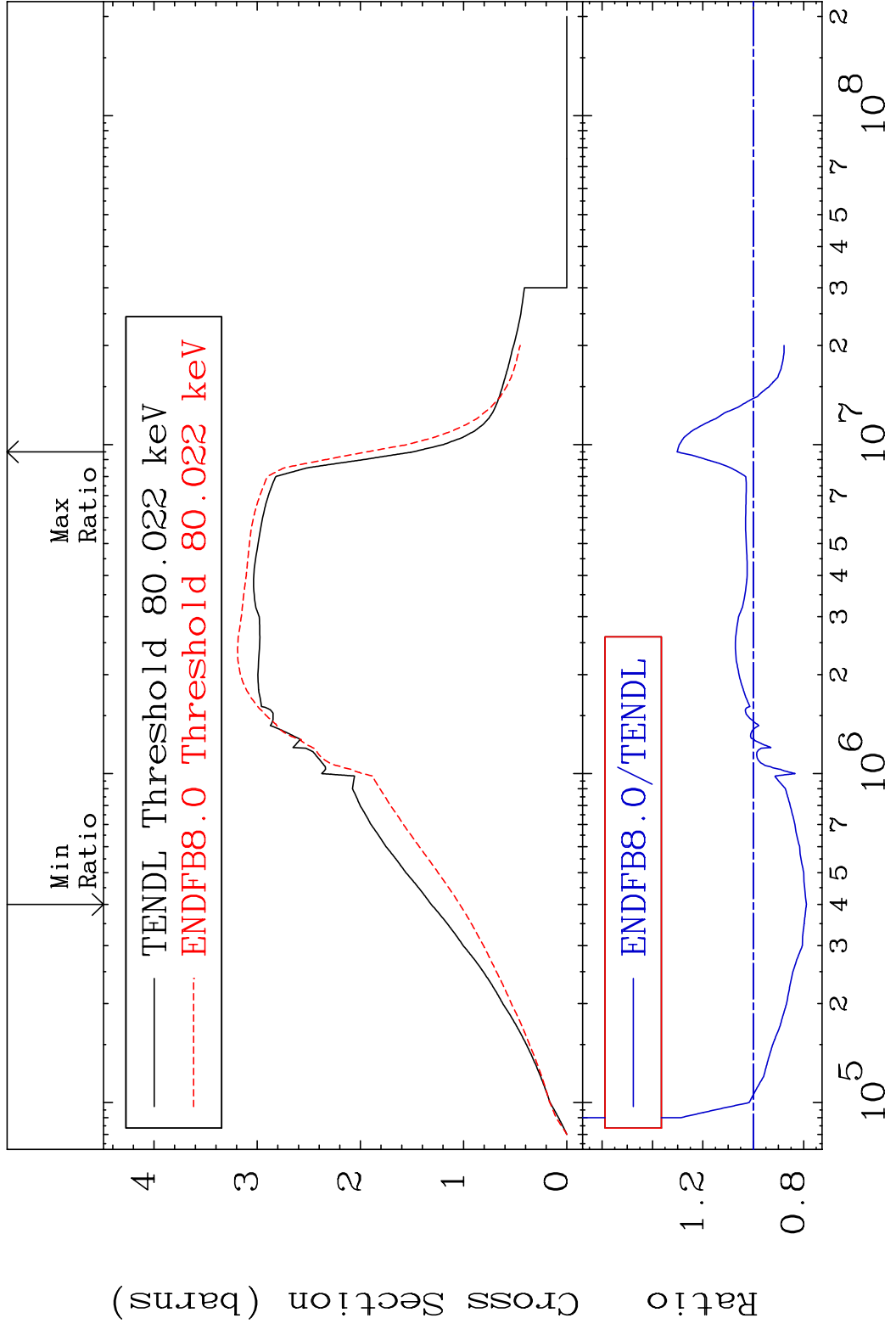


2 Incident Energy (eV) 64-Gd-158

MAT 6443

Inelastic Cross Section -21.08 To 30.20 %

64-Gd-158



3

Incident Energy (eV)

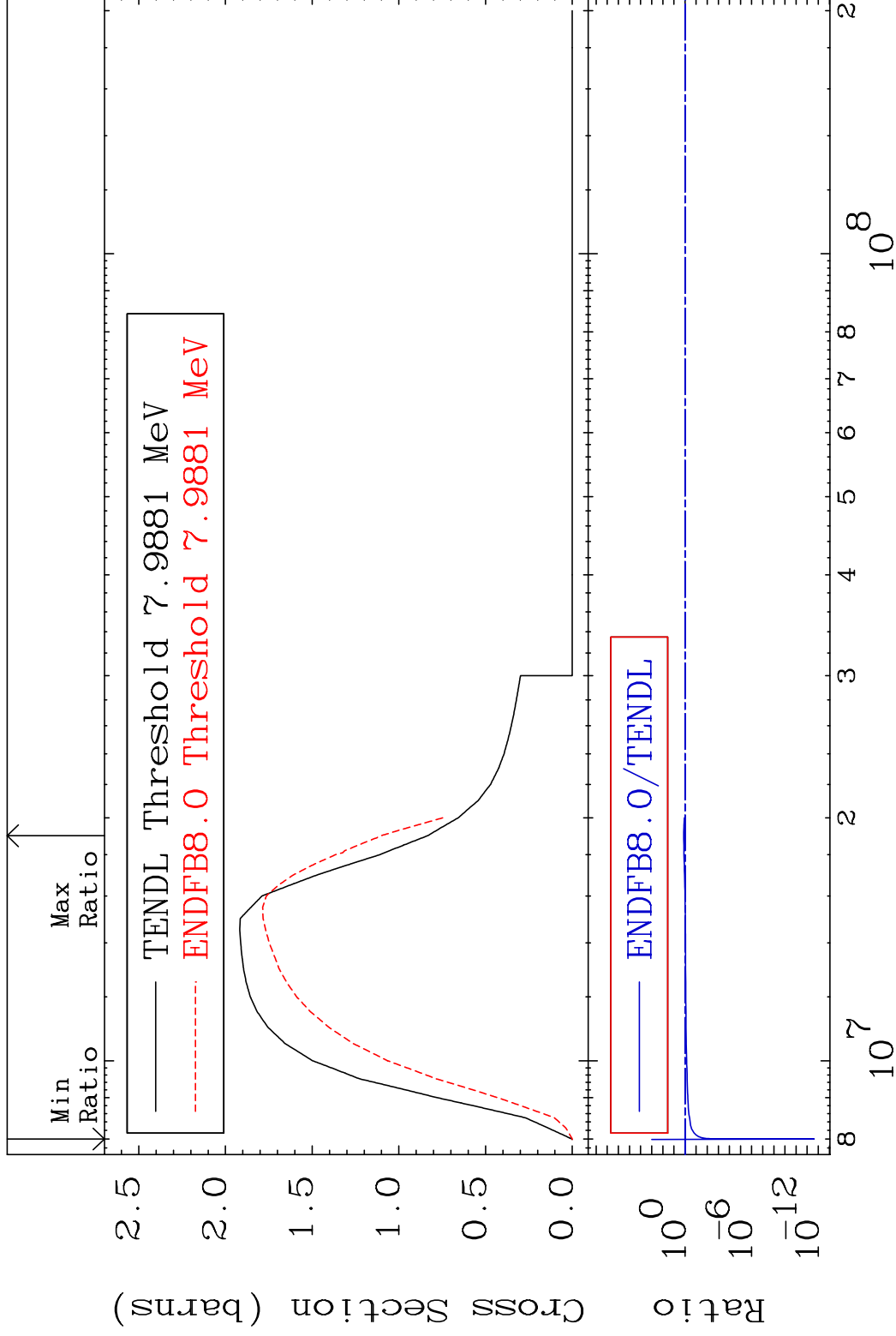
64-Gd-158

MAT 6443

(n,2n)

64-Gd-158

Cross Section -100.0 To 32.18 %



4

Incident Energy (eV)

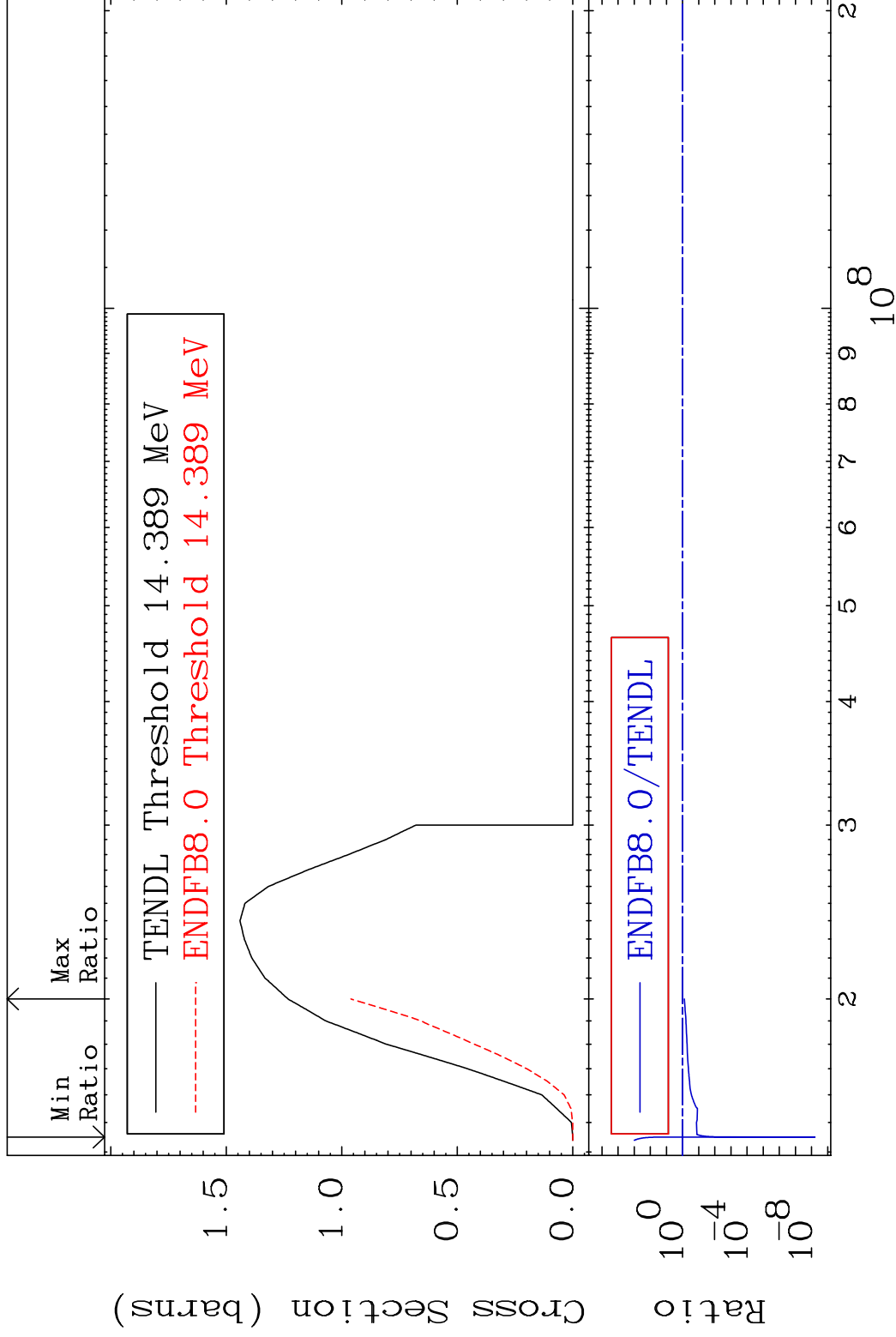
64-Gd-158

MAT 6443

(n,3n)

64-Gd-158

Cross Section -100.0 To -22.13%



5

Incident Energy (eV)

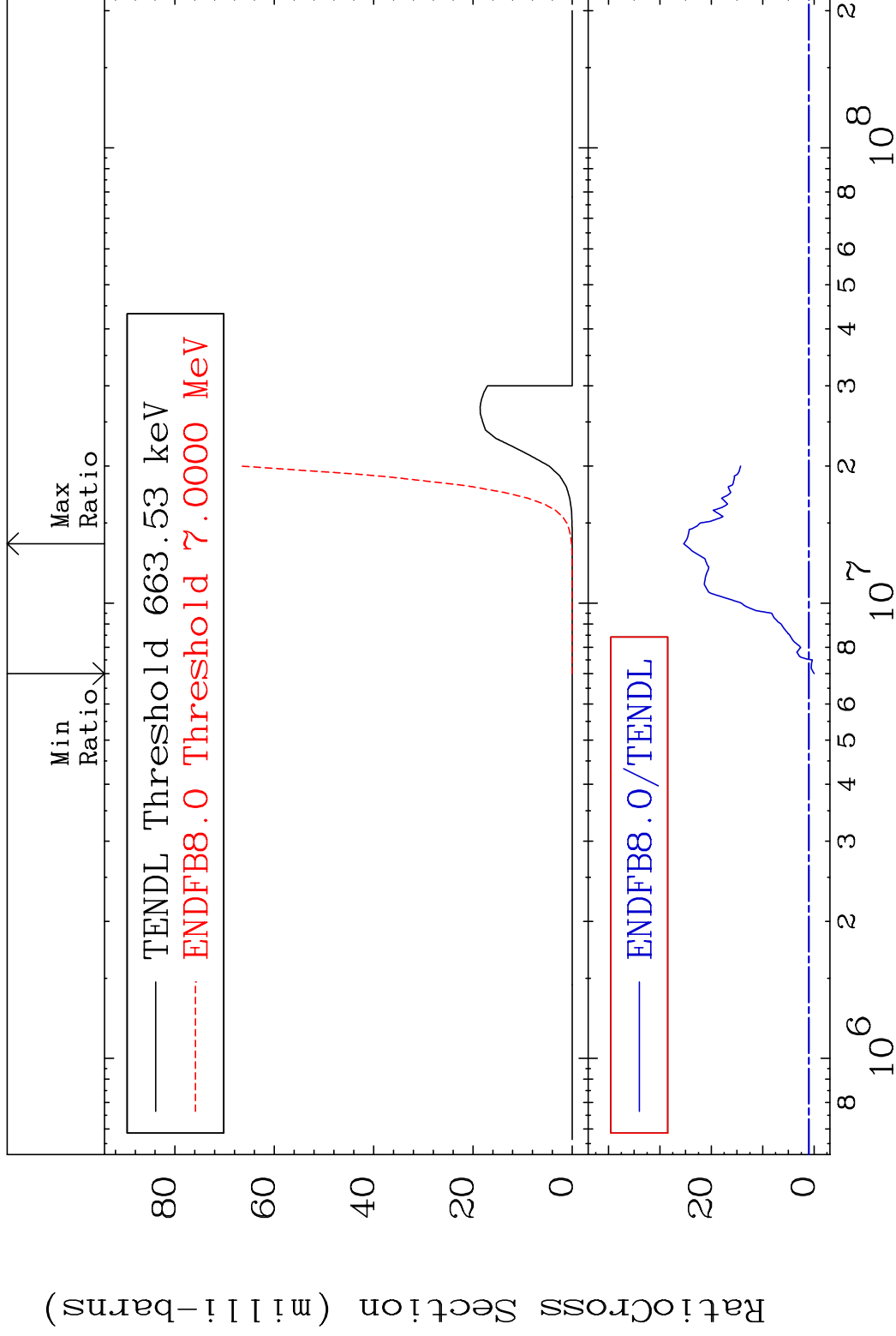
64-Gd-158

MAT 6443

(n, n') α

64-Gd-158

Cross Section -100.0 To 2438. %



6

Incident Energy (eV)

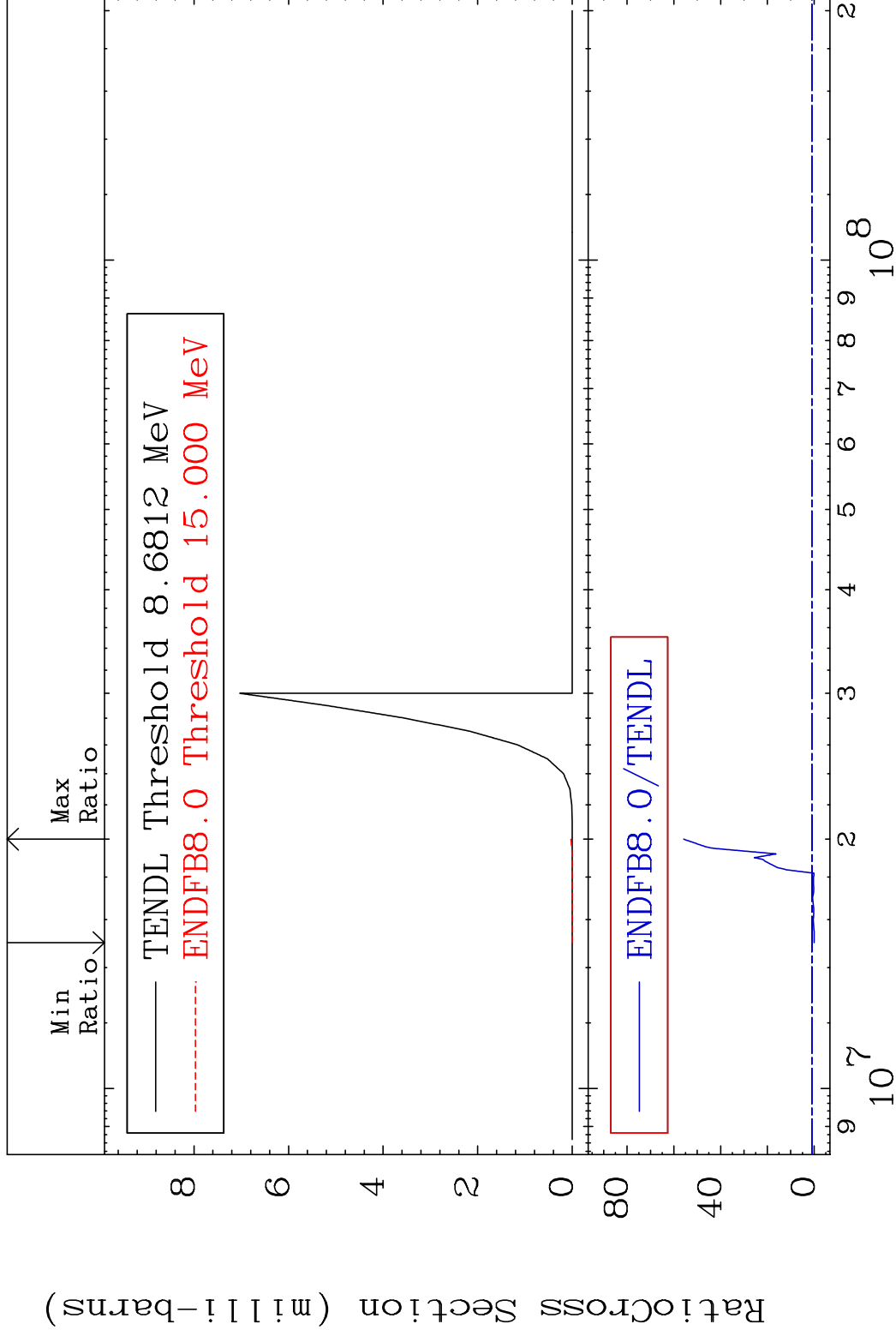
64-Gd-158

MAT 6443

(n,2n) α

64-Gd-158

Cross Section -100.0 To 5481. %



7

Incident Energy (eV)

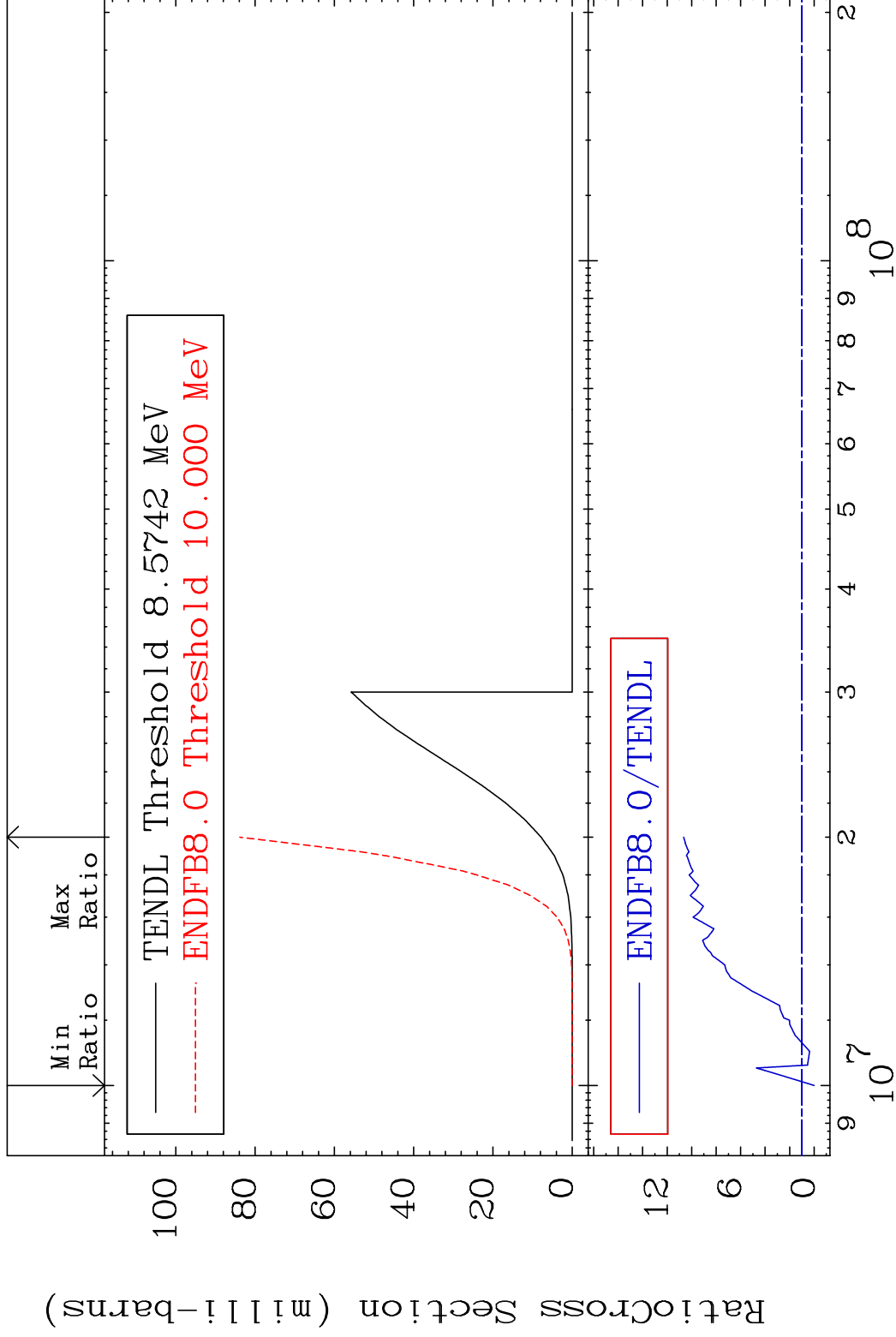
64-Gd-158

MAT 6443

(n, n') p

64-Gd-158

Cross Section -100.0 To 965.1 %



8

Incident Energy (eV)

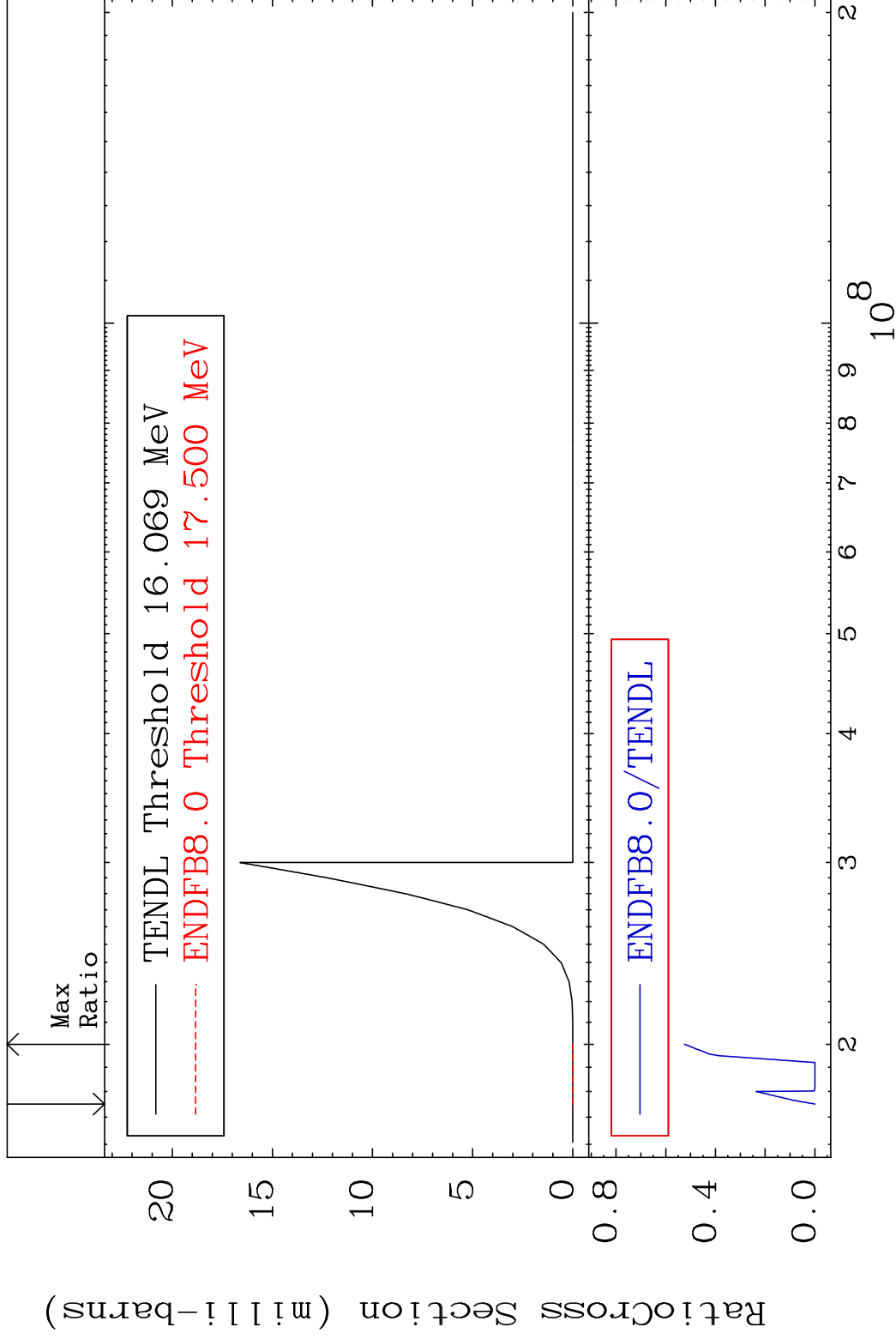
64-Gd-158

MAT 6443

(n,2n) p

64-Gd-158

Cross Section -100.0 To -47.47%

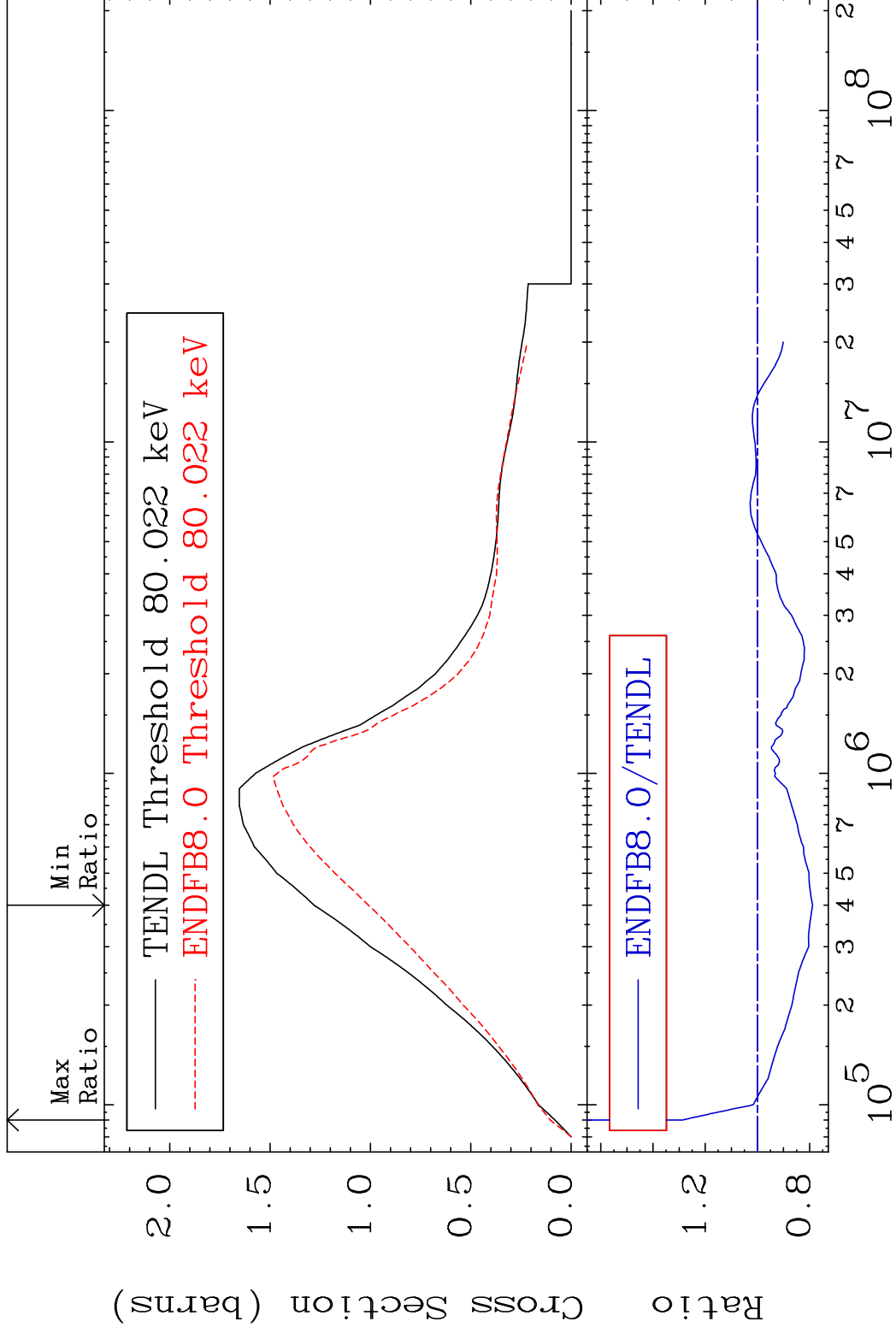


MAT 6443

MT= 51 (n, n') Level

64-Gd-158

Cross Section -21.14 To 28.76 %

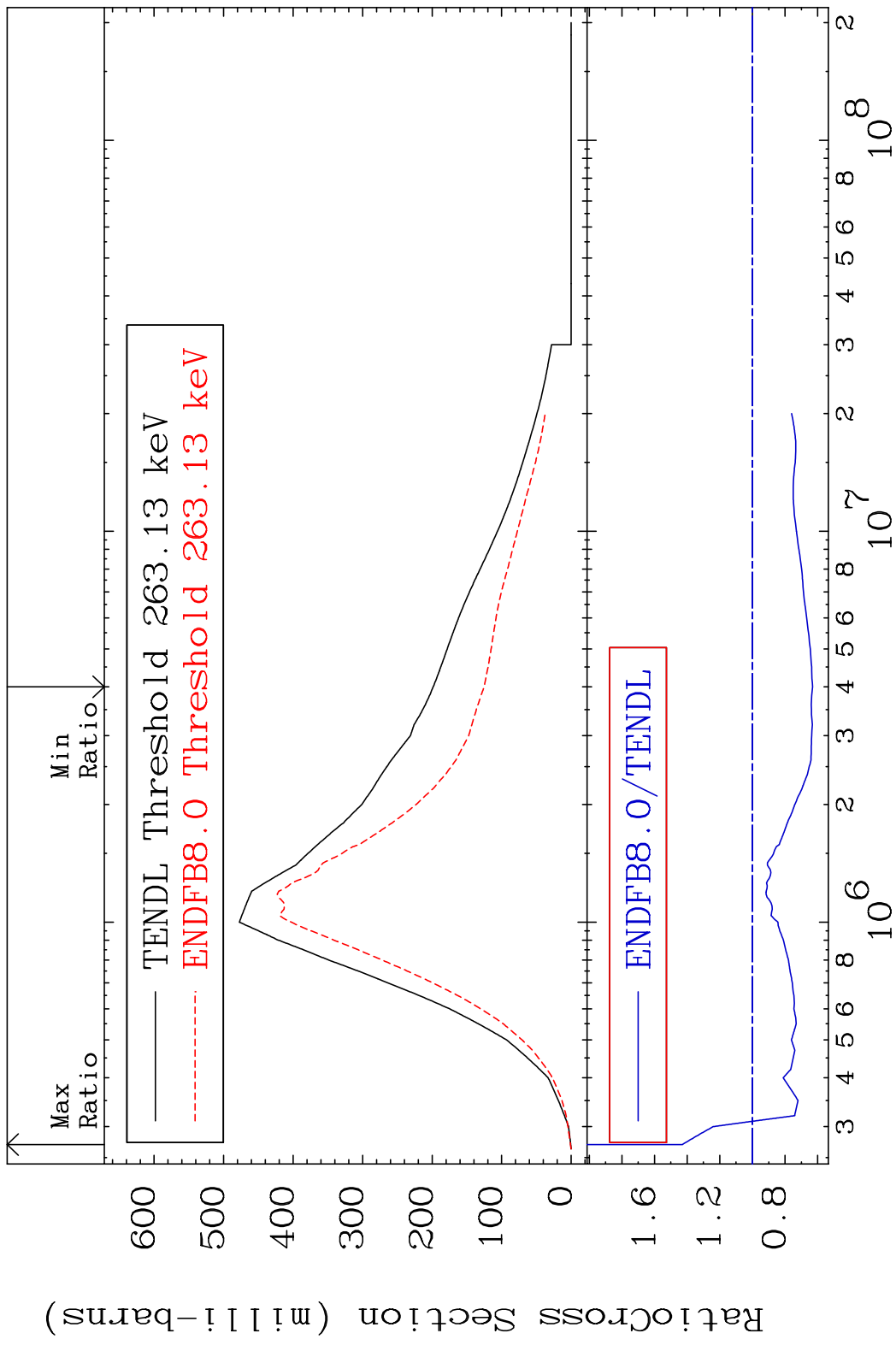


10

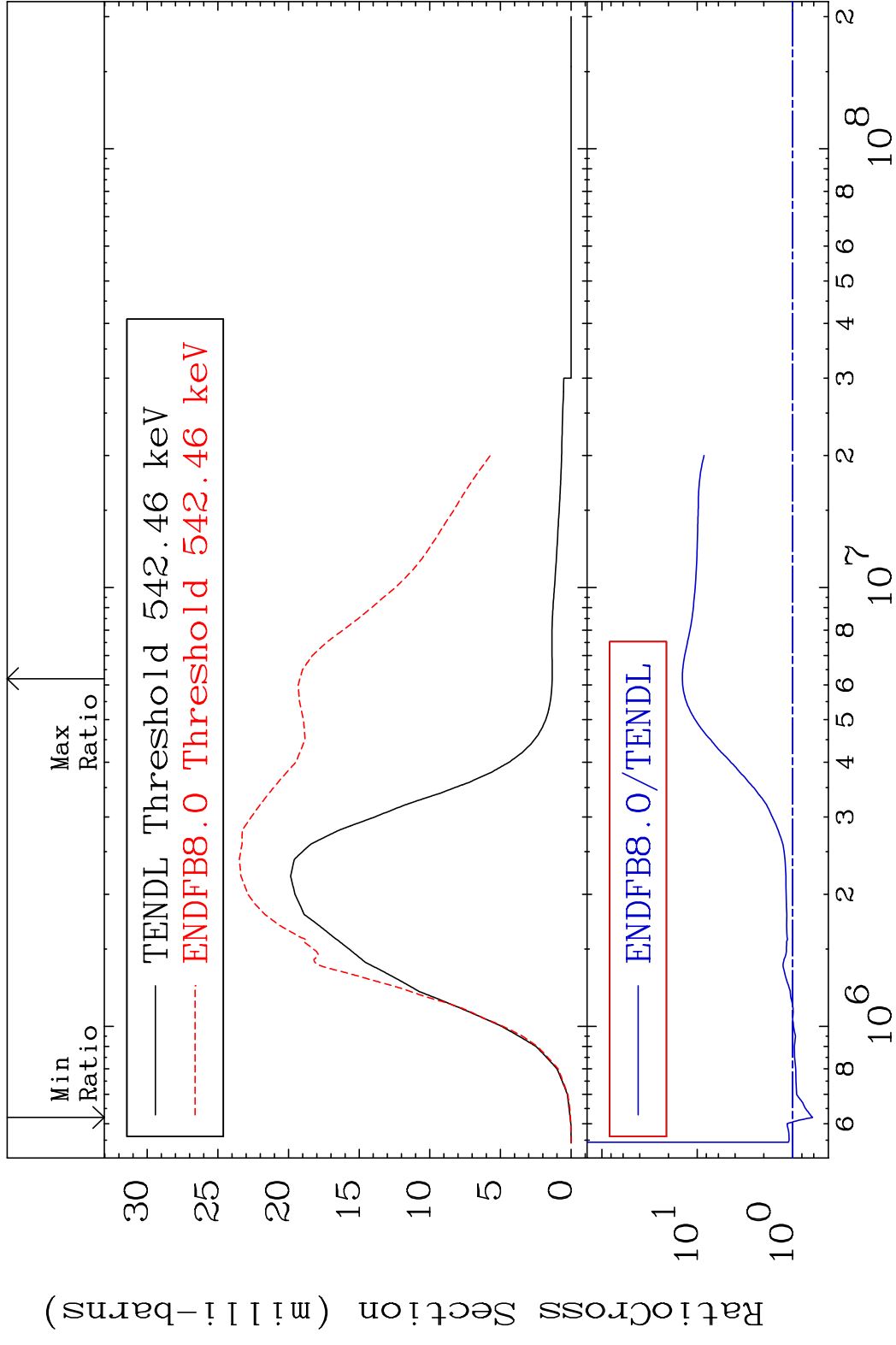
Incident Energy (eV)

64-Gd-158

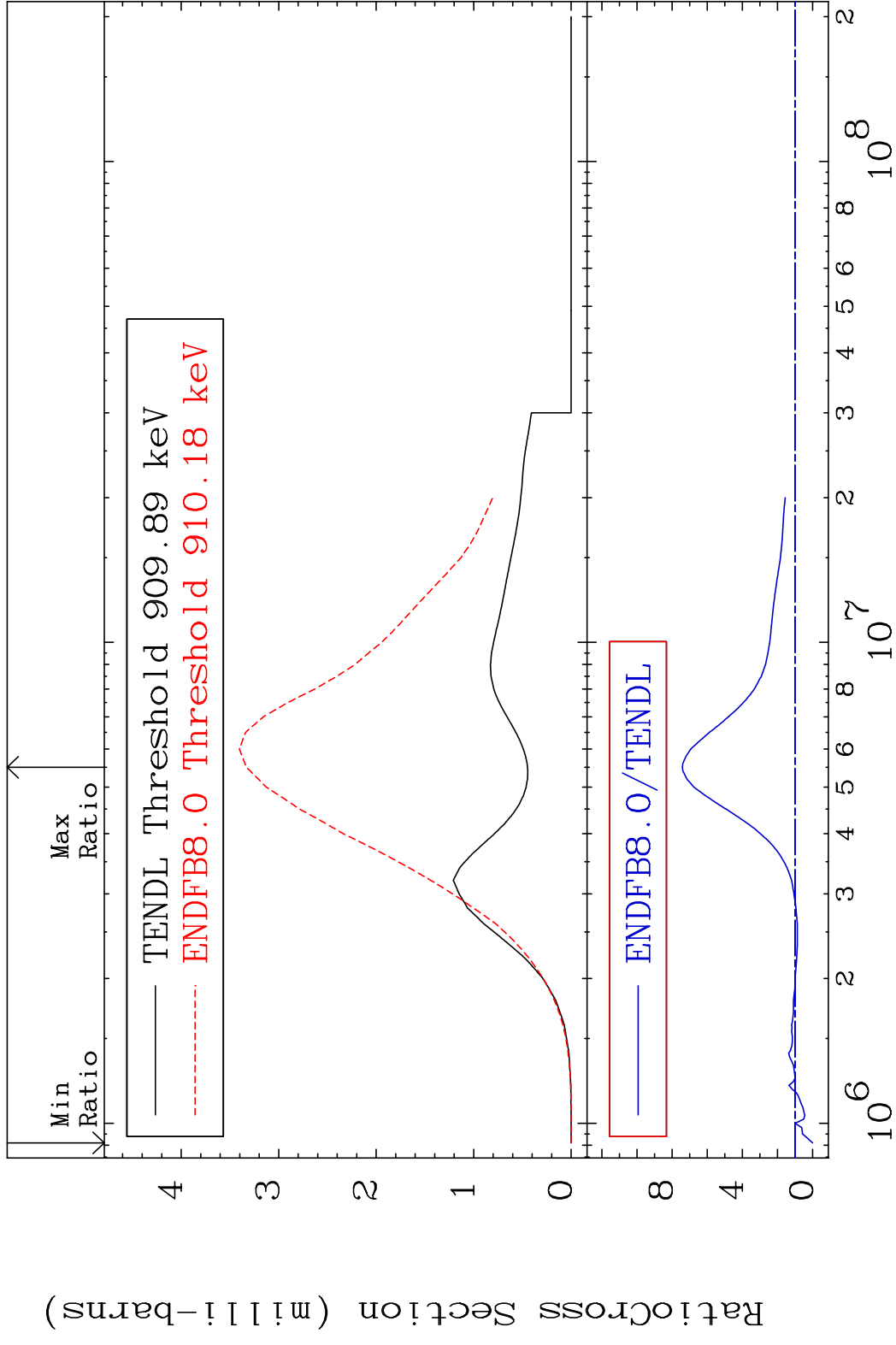
MAT 6443 MT= 52 (n, n') Level 64-Gd-158
 Cross Section -36.87 To 42.94 %



MAT 6443 MT= 53 (n, n') Level 64-Gd-158
 Cross Section -38.28 To 1331. %

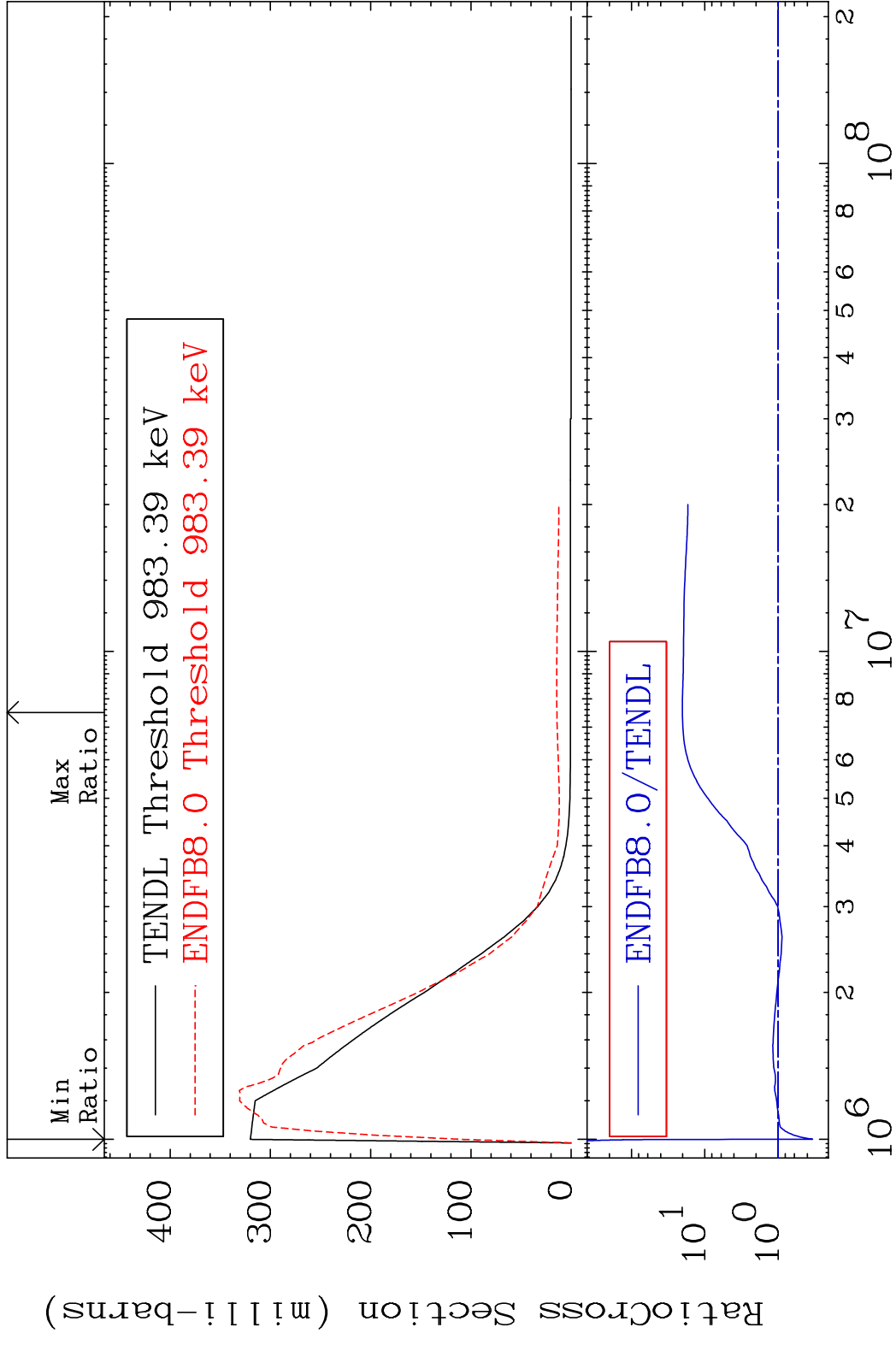


MAT 6443 MT= 54 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 641.5 %



13 Incident Energy (eV) 64-Gd-158

MAT 6443 MT= 55 (n,n') Level 64-Gd-158
 Cross Section -66.02 To 1923. %



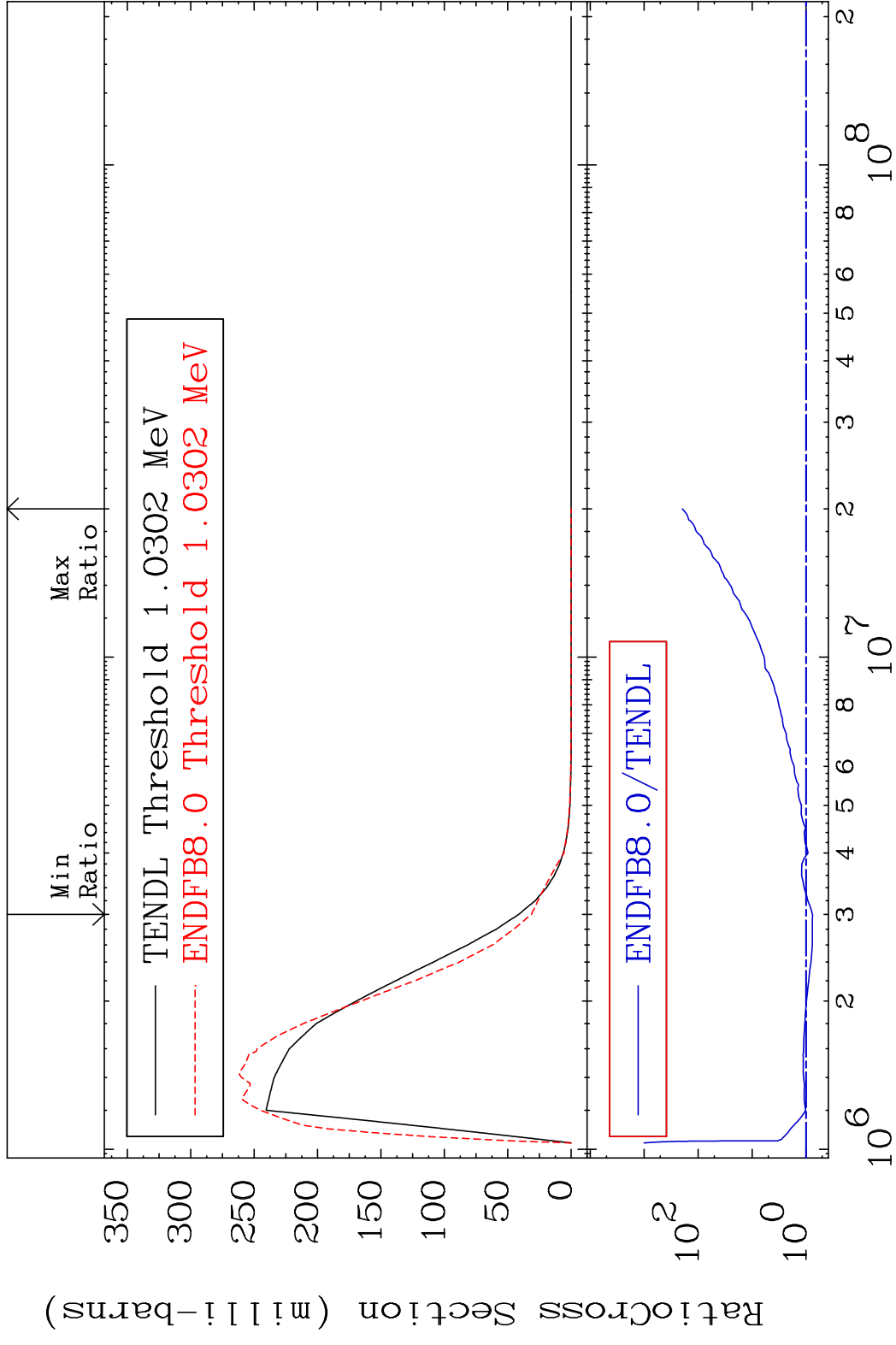
14 Incident Energy (eV) 64-Gd-158

MAT 6443

MT= 56 (n, n') Level

64-Gd-158

Cross Section -24.30 To 9999. %

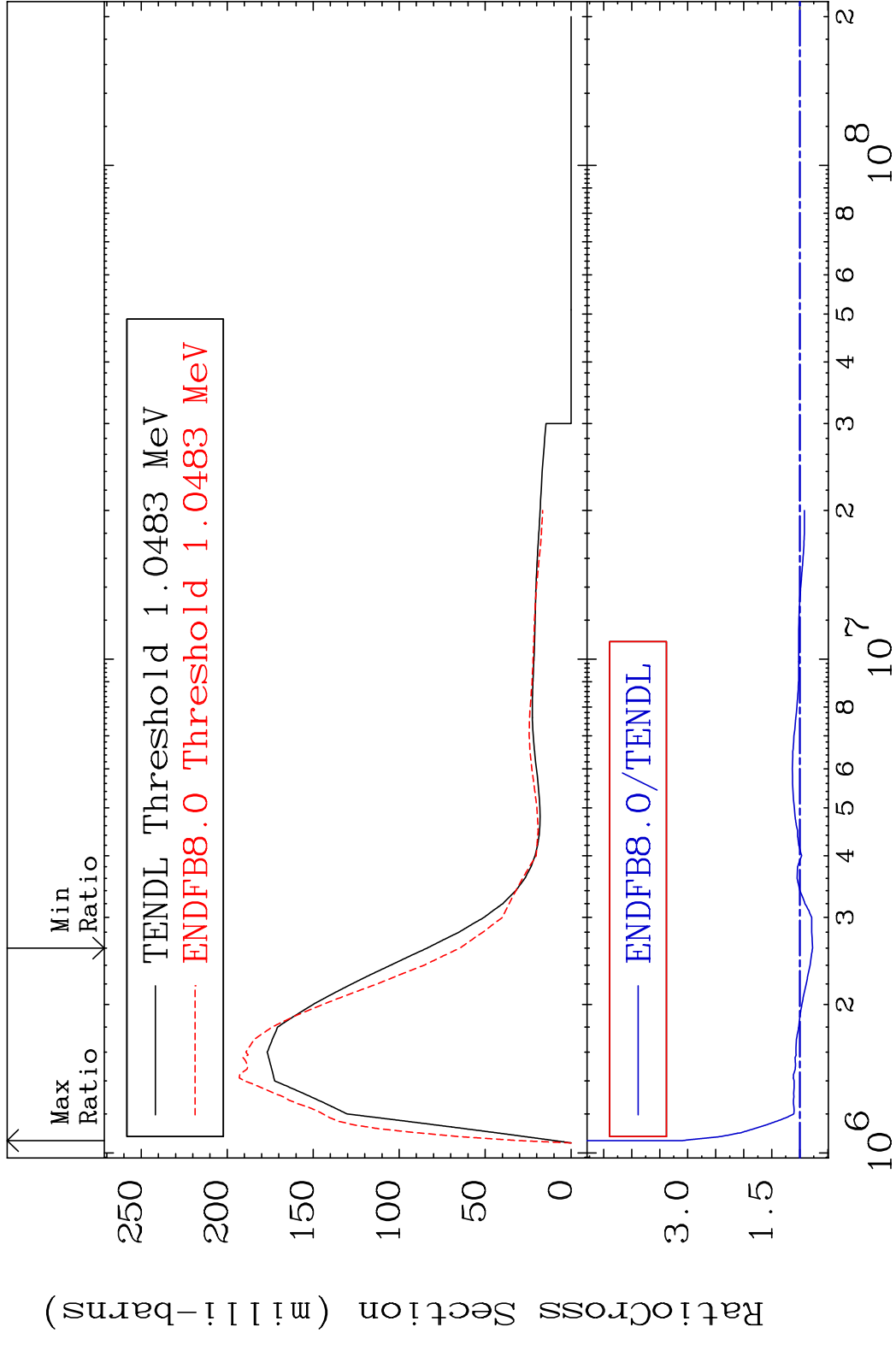


15

Incident Energy (eV)

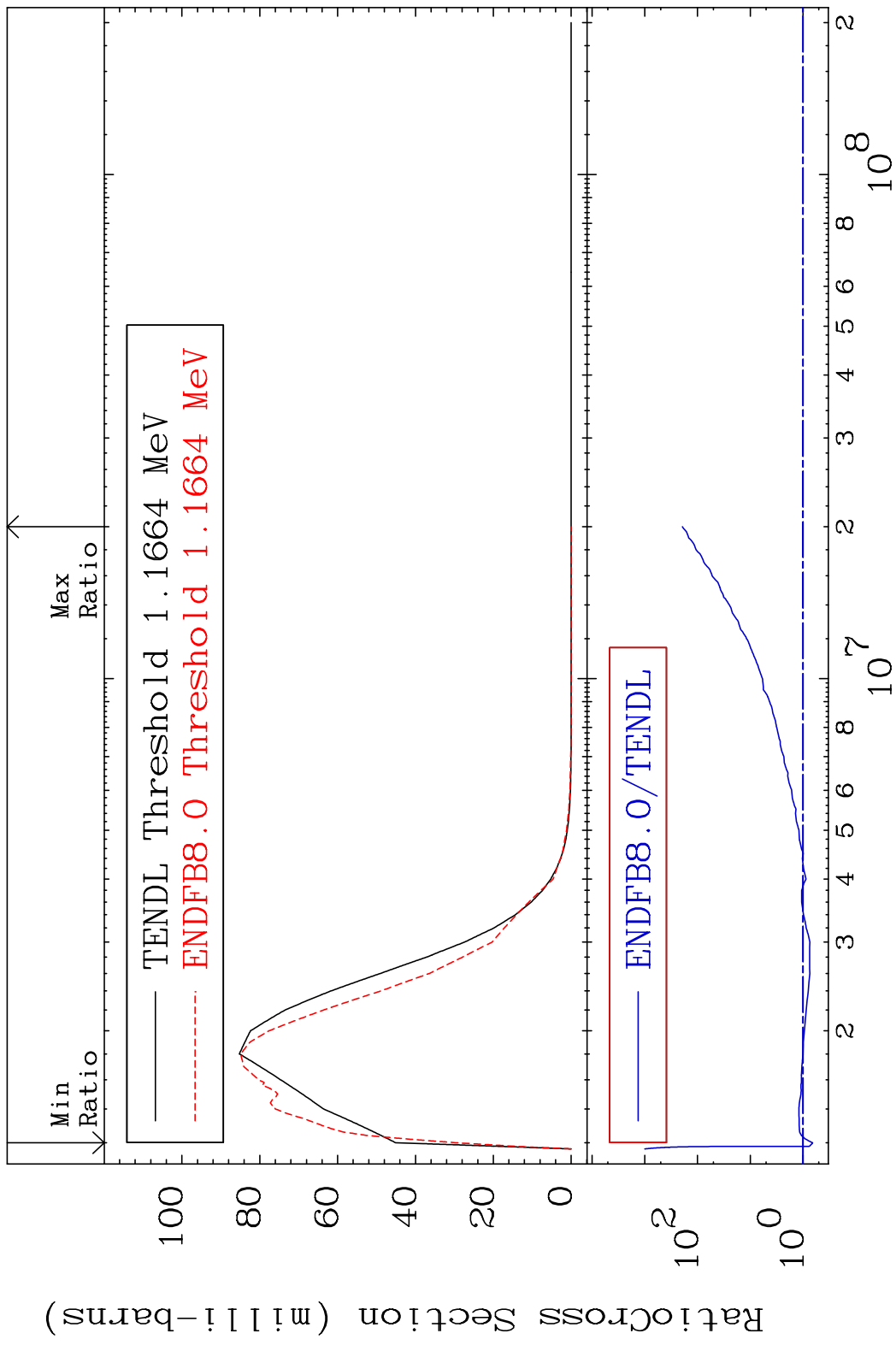
64-Gd-158

MAT 6443 MT= 57 (n, n') Level 64-Gd-158
 Cross Section -22.75 To 209.6 %



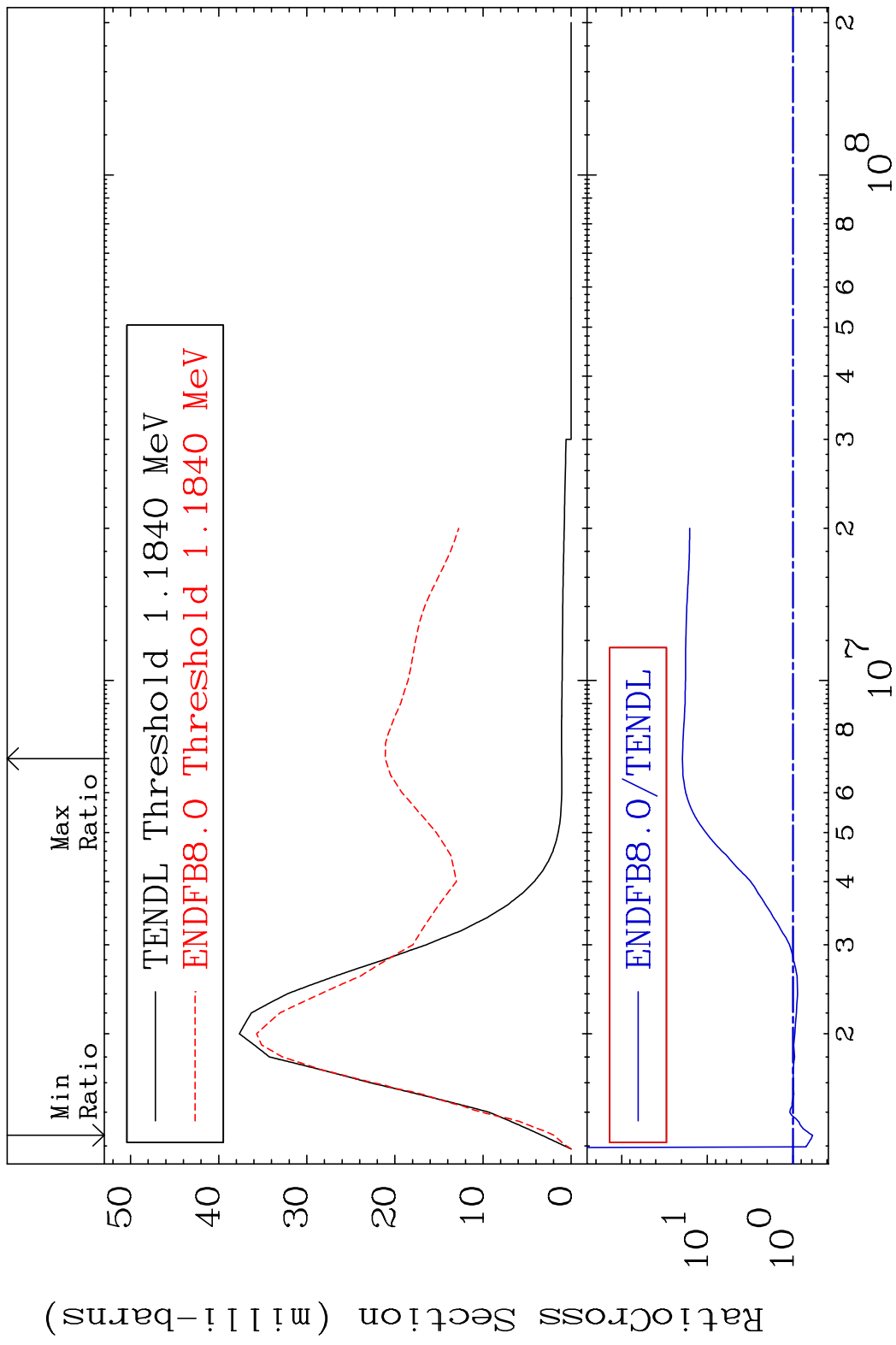
16 Incident Energy (eV) 64-Gd-158

MAT 6443 MT= 58 (n, n') Level 64-Gd-158
 Cross Section -34.11 To 9999. %

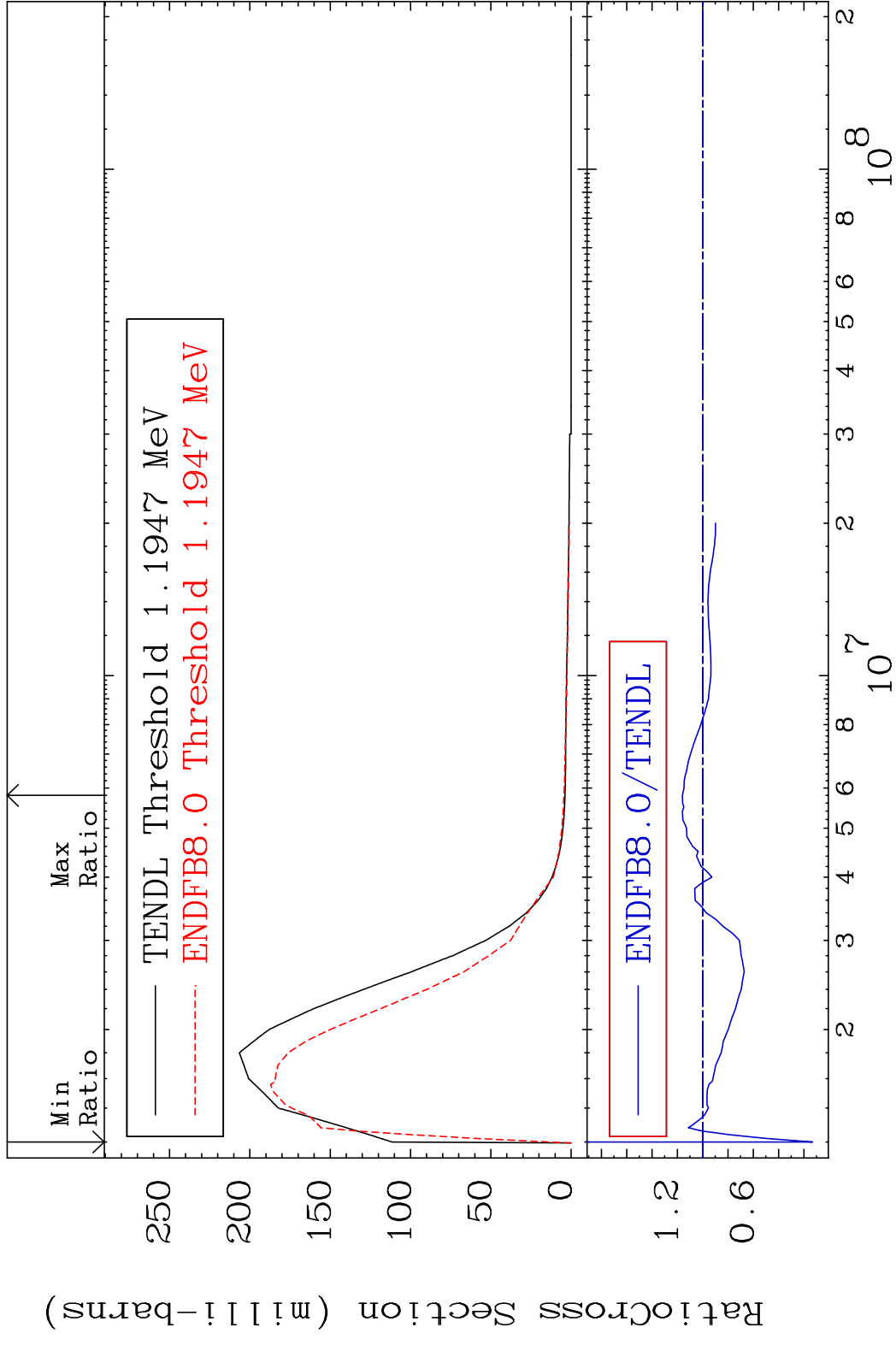


17 Incident Energy (eV) 64-Gd-158

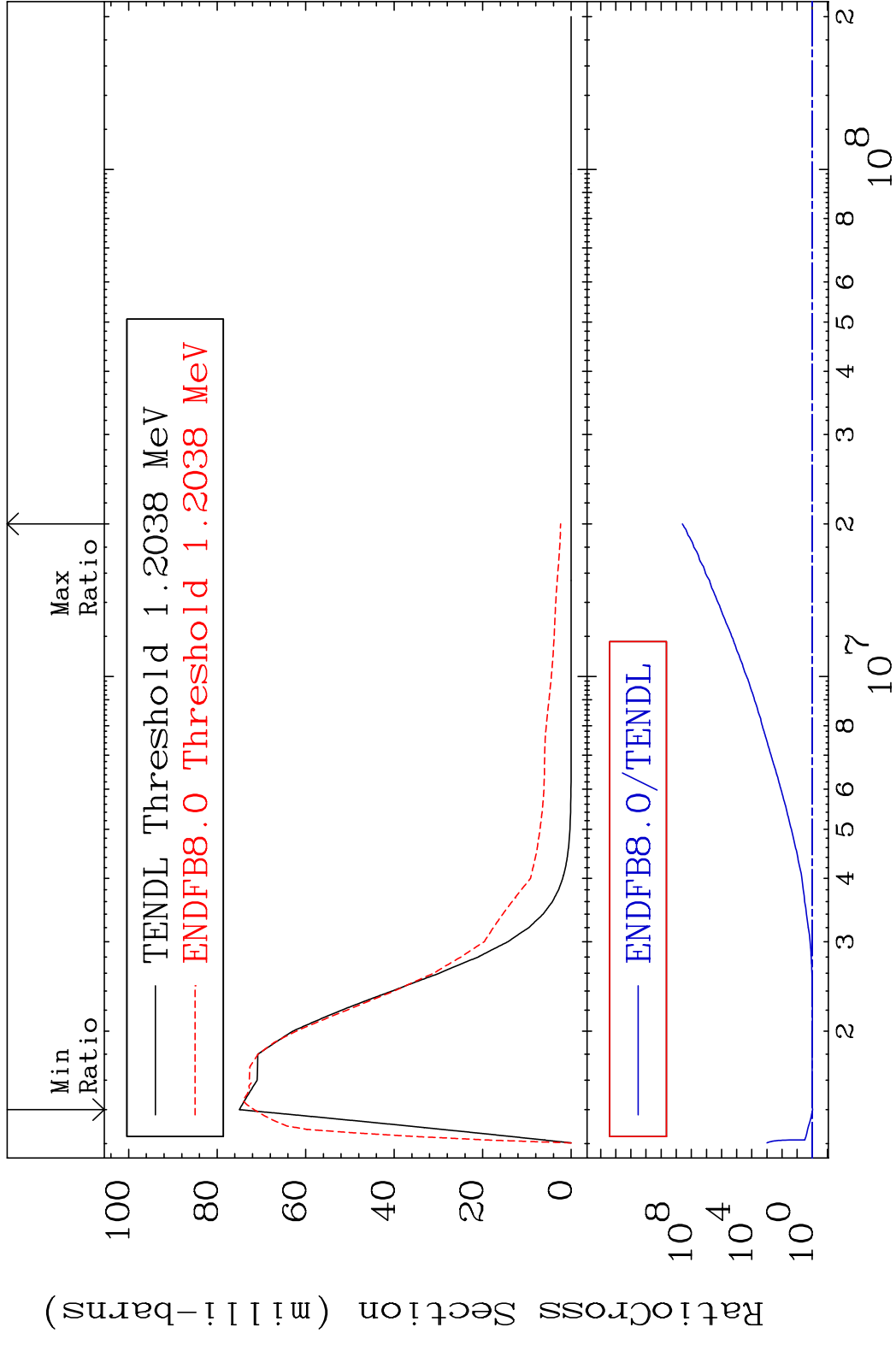
MAT 6443 MT= 59 (n, n') Level 64-Gd-158
 Cross Section -41.07 To 1857. %



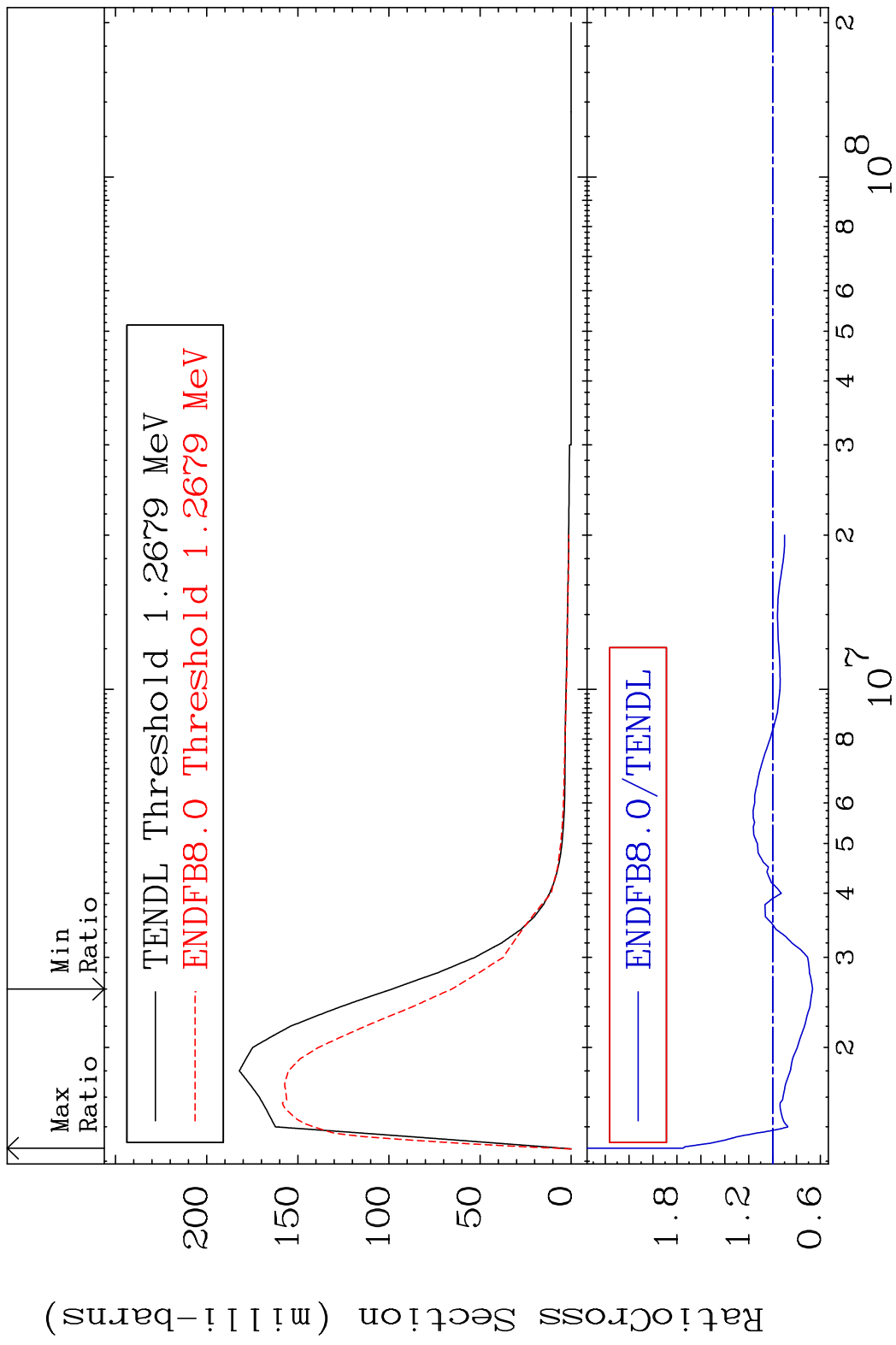
MAT 6443 MT= 60 (n,n') Level 64-Gd-158
 Cross Section -86.88 To 16.00 %



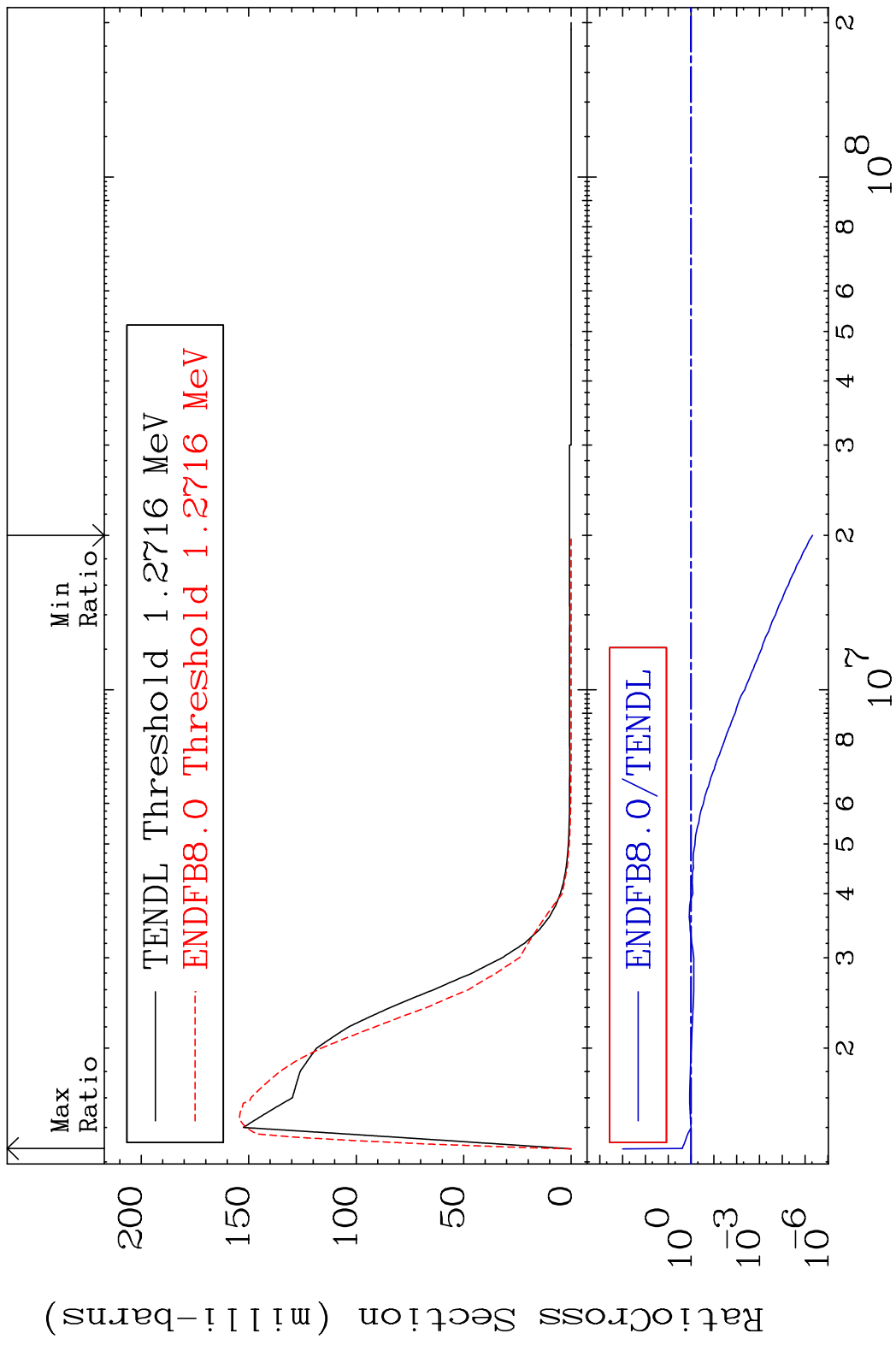
MAT 6443 MT= 61 (n, n') Level 64-Gd-158
 Cross Section -4.471 To 9999. %



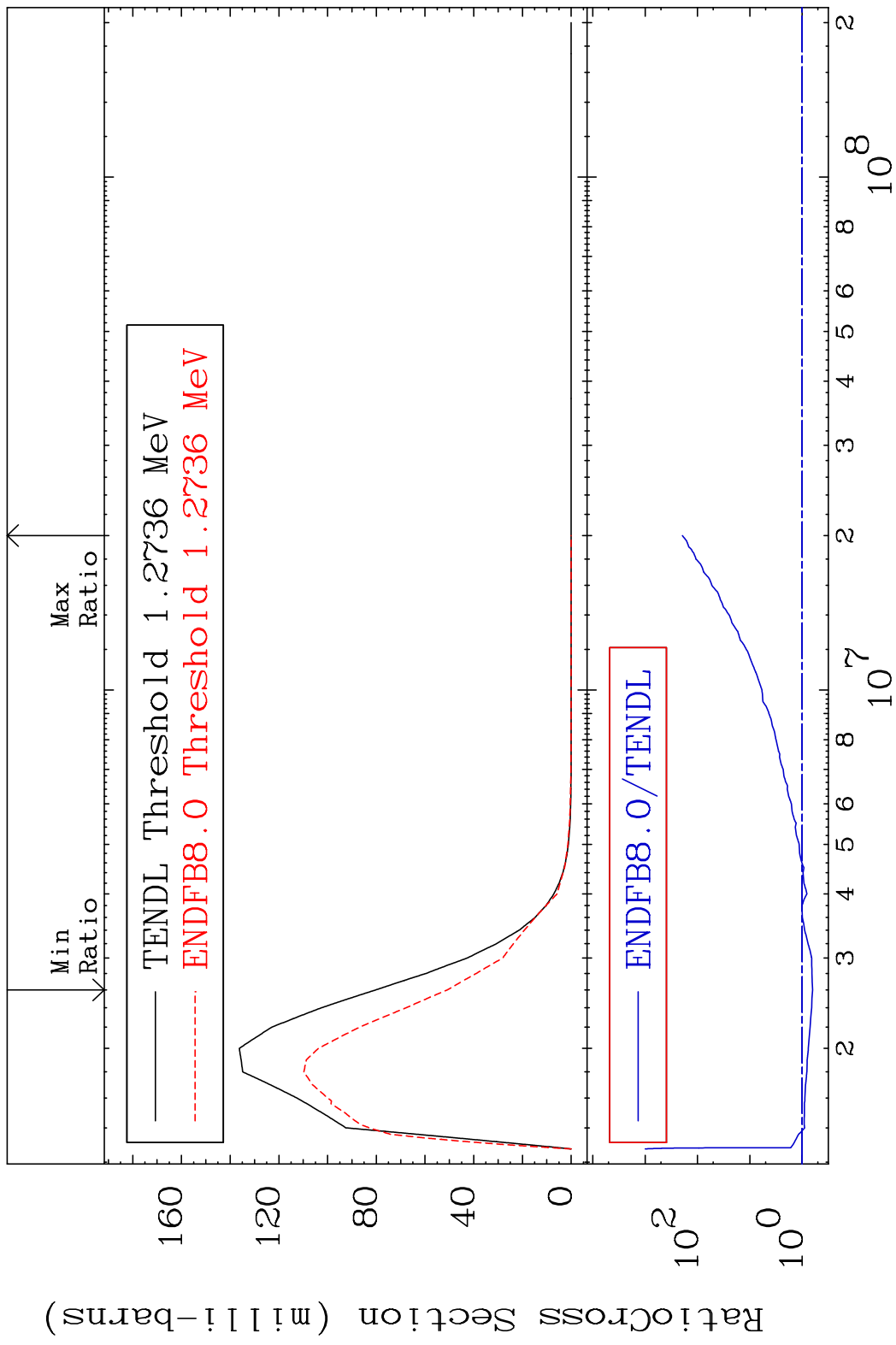
MAT 6443 MT= 62 (n,n') Level 64-Gd-158
 Cross Section -33.42 To 75.48 %



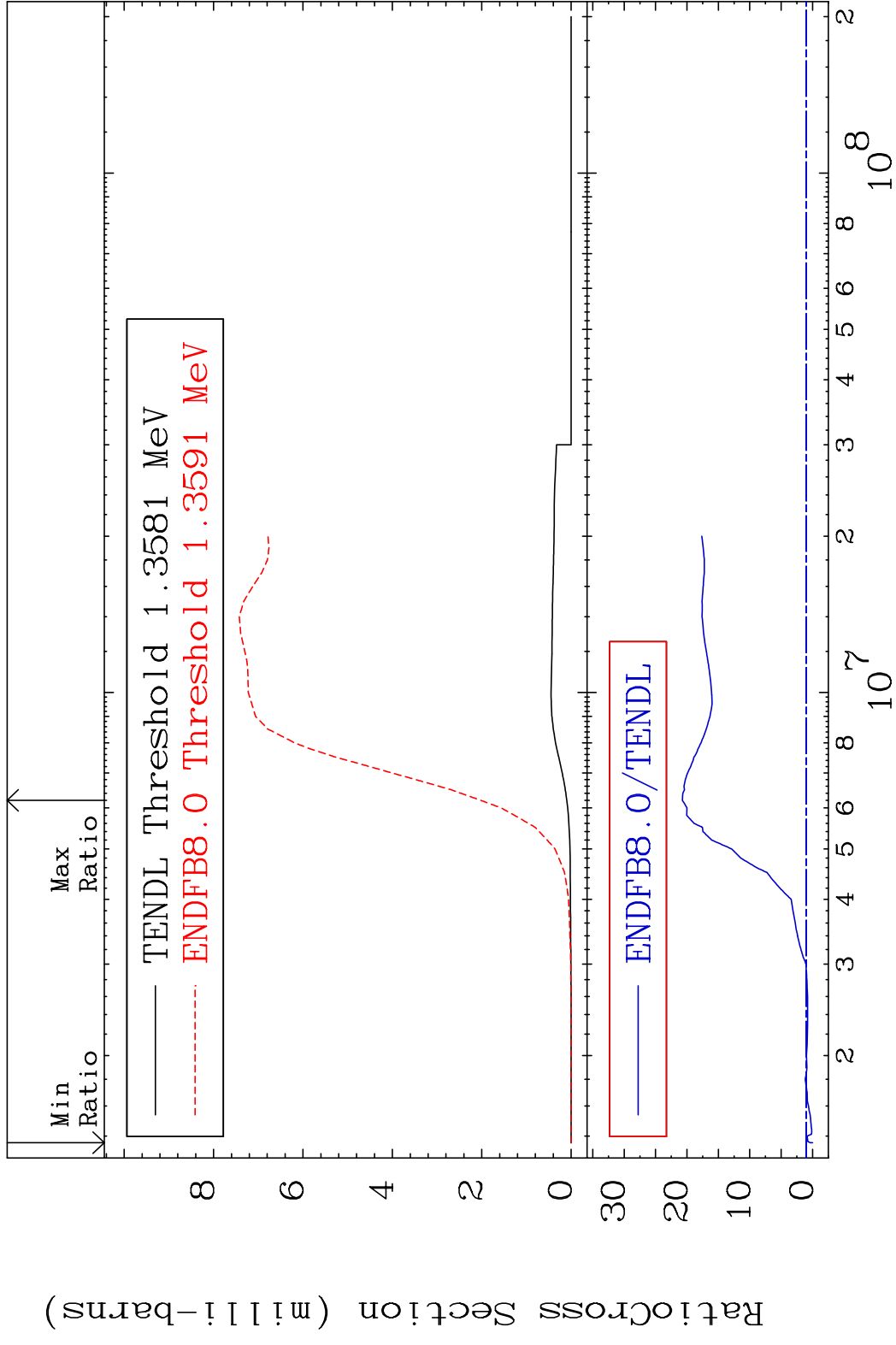
MAT 6443 MT= 63 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 139.0 %



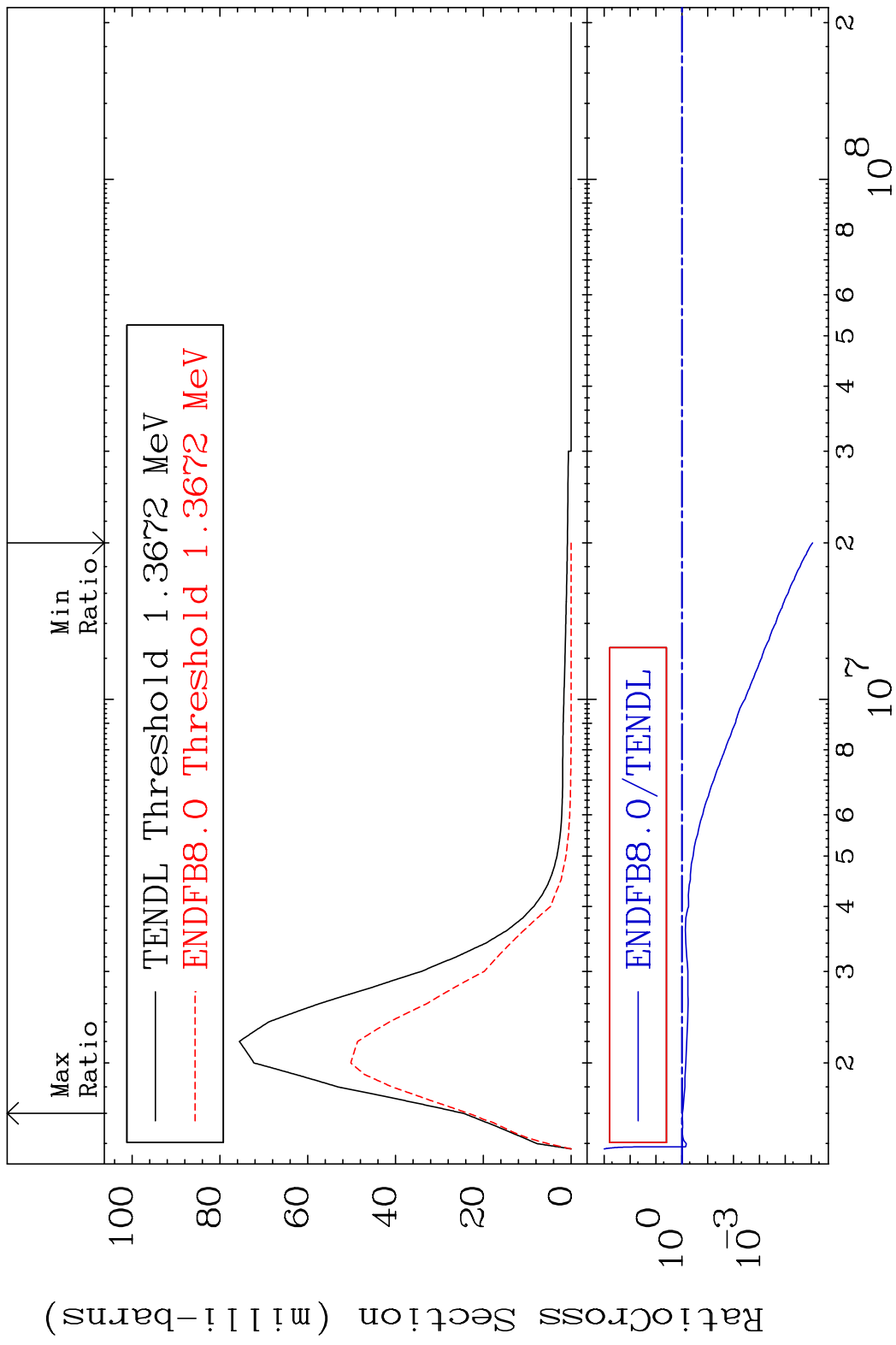
MAT 6443 MT= 64 (n, n') Level 64-Gd-158
 Cross Section -36.61 To 9999. %



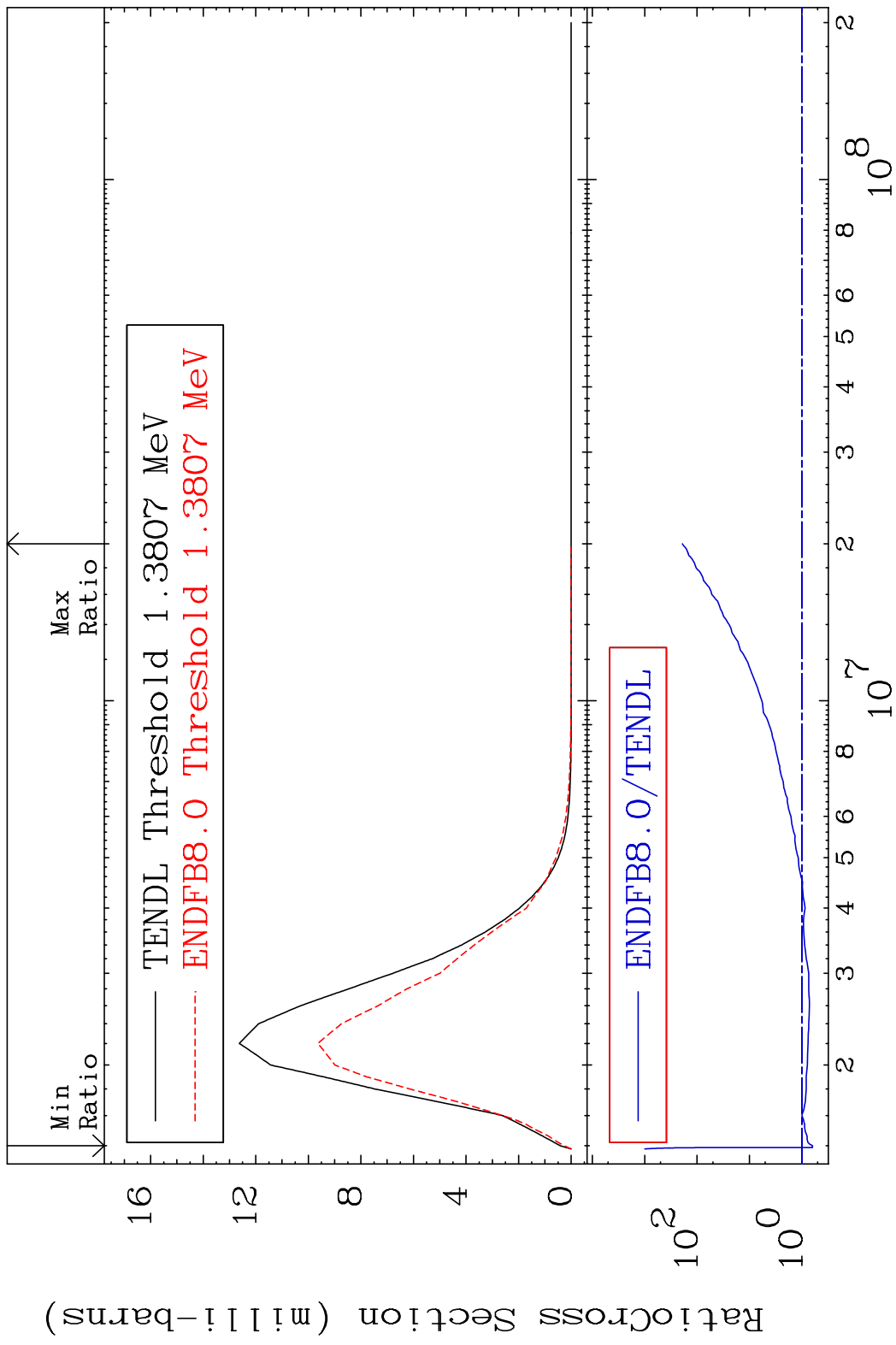
MAT 6443 MT= 65 (n,n') Level 64-Gd-158
 Cross Section -100.0 To 1974. %



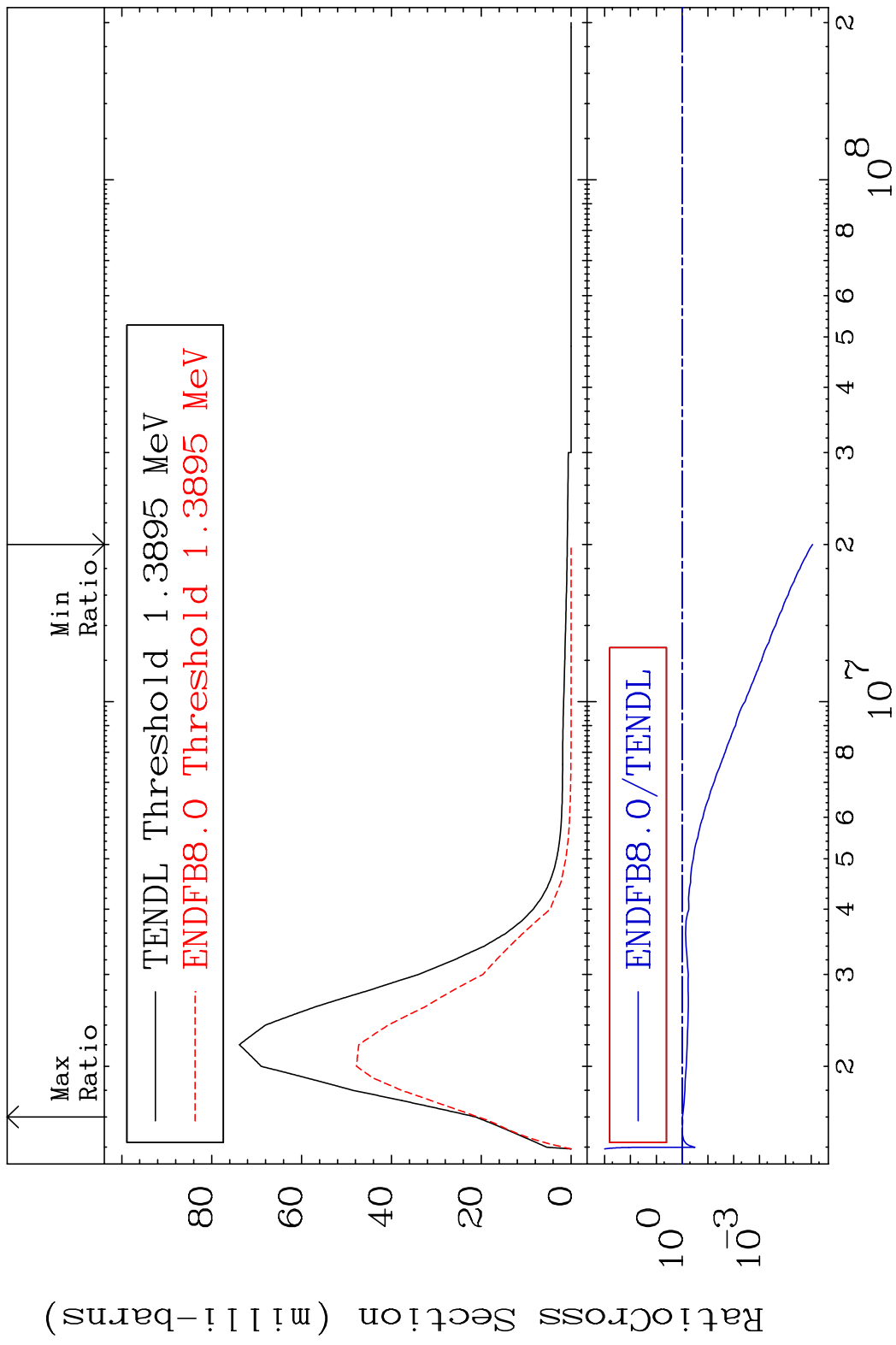
MAT 6443 MT= 66 (n, n') Level 64-Gd-158
 Cross Section -100.0 To -4.525%



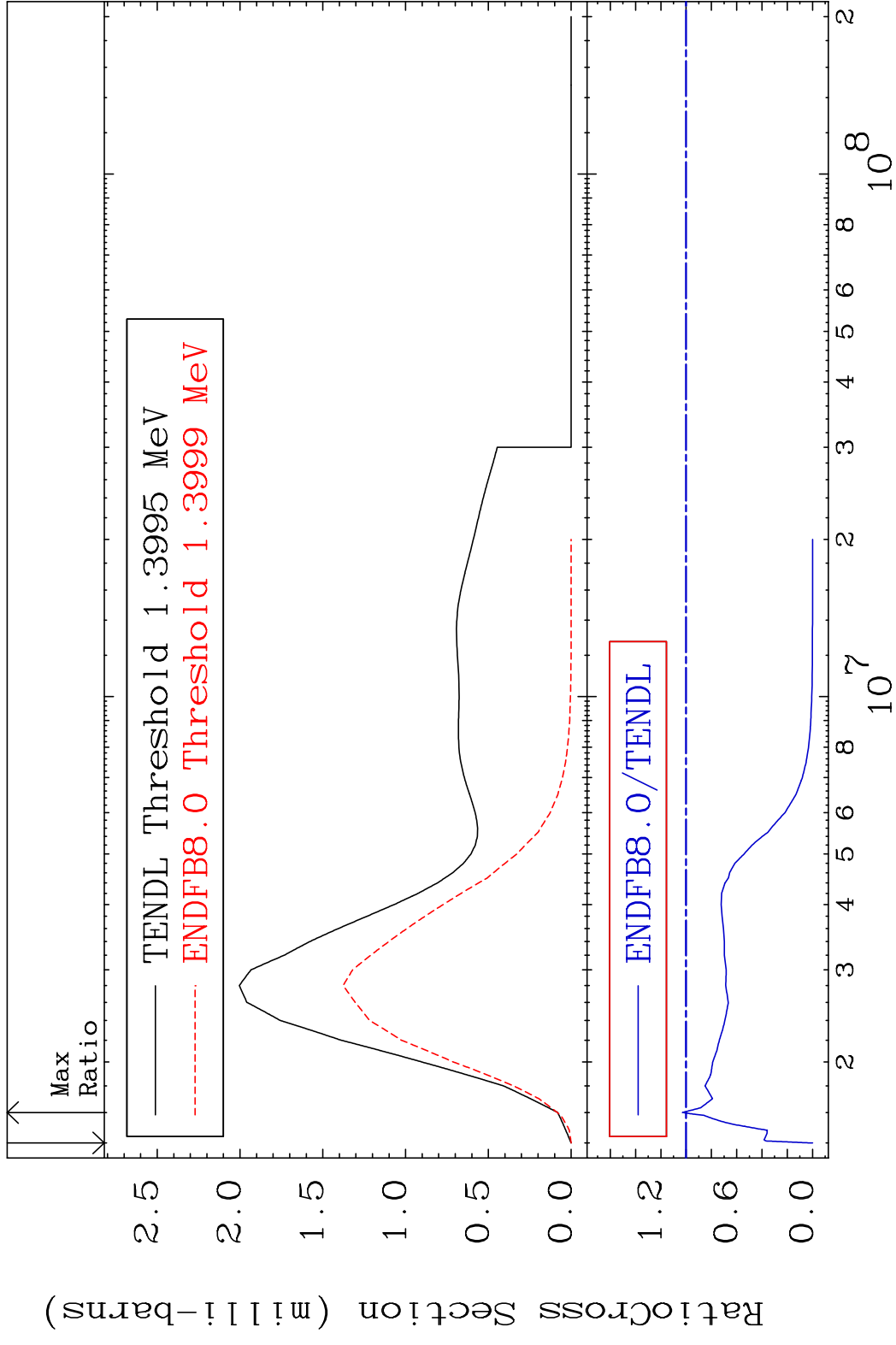
MAT 6443 MT= 67 (n, n') Level 64-Gd-158
 Cross Section -37.62 To 9999. %



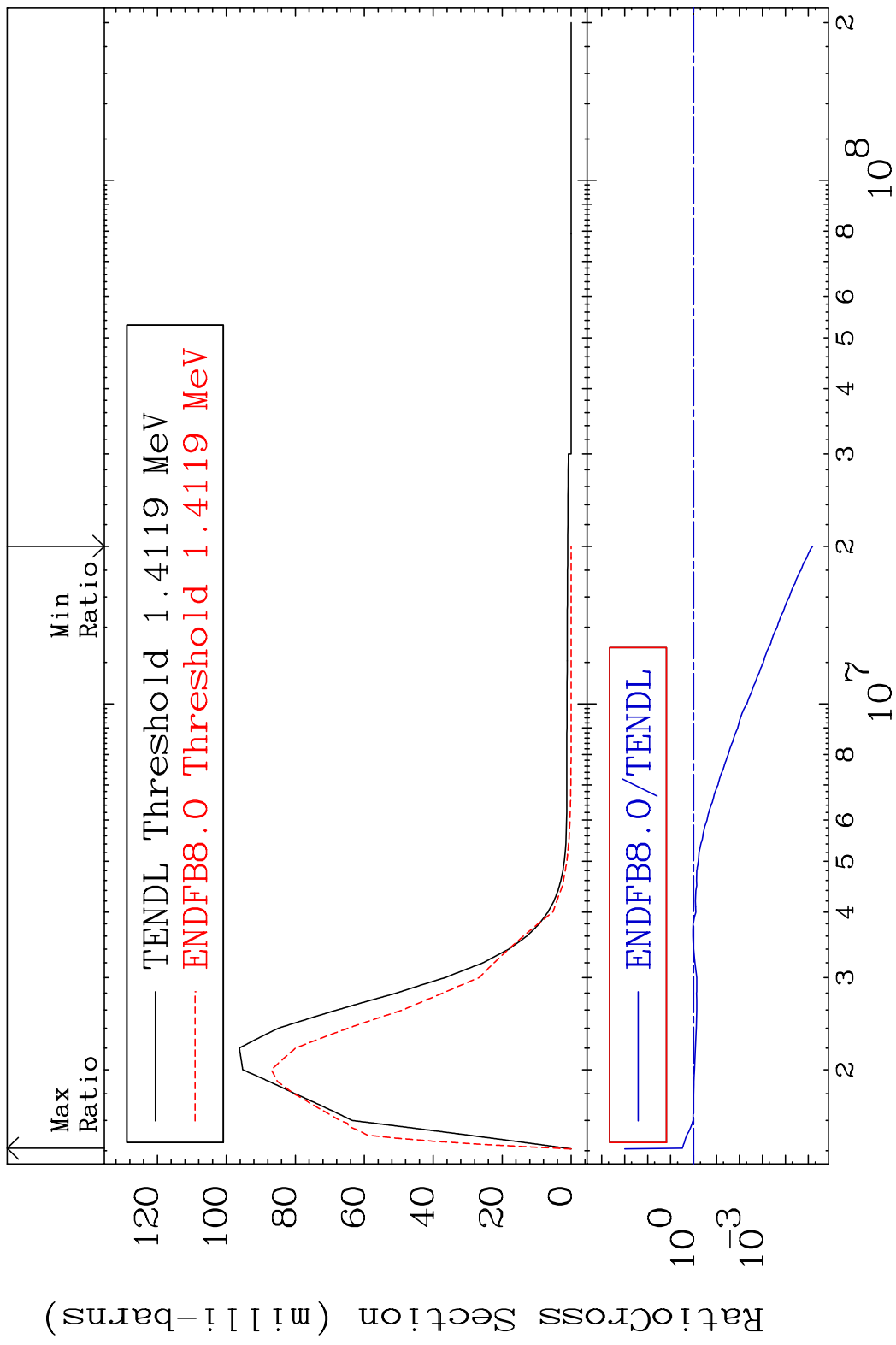
MAT 6443 MT= 68 (n, n') Level 64-Gd-158
 Cross Section -100.0 To -2.190%



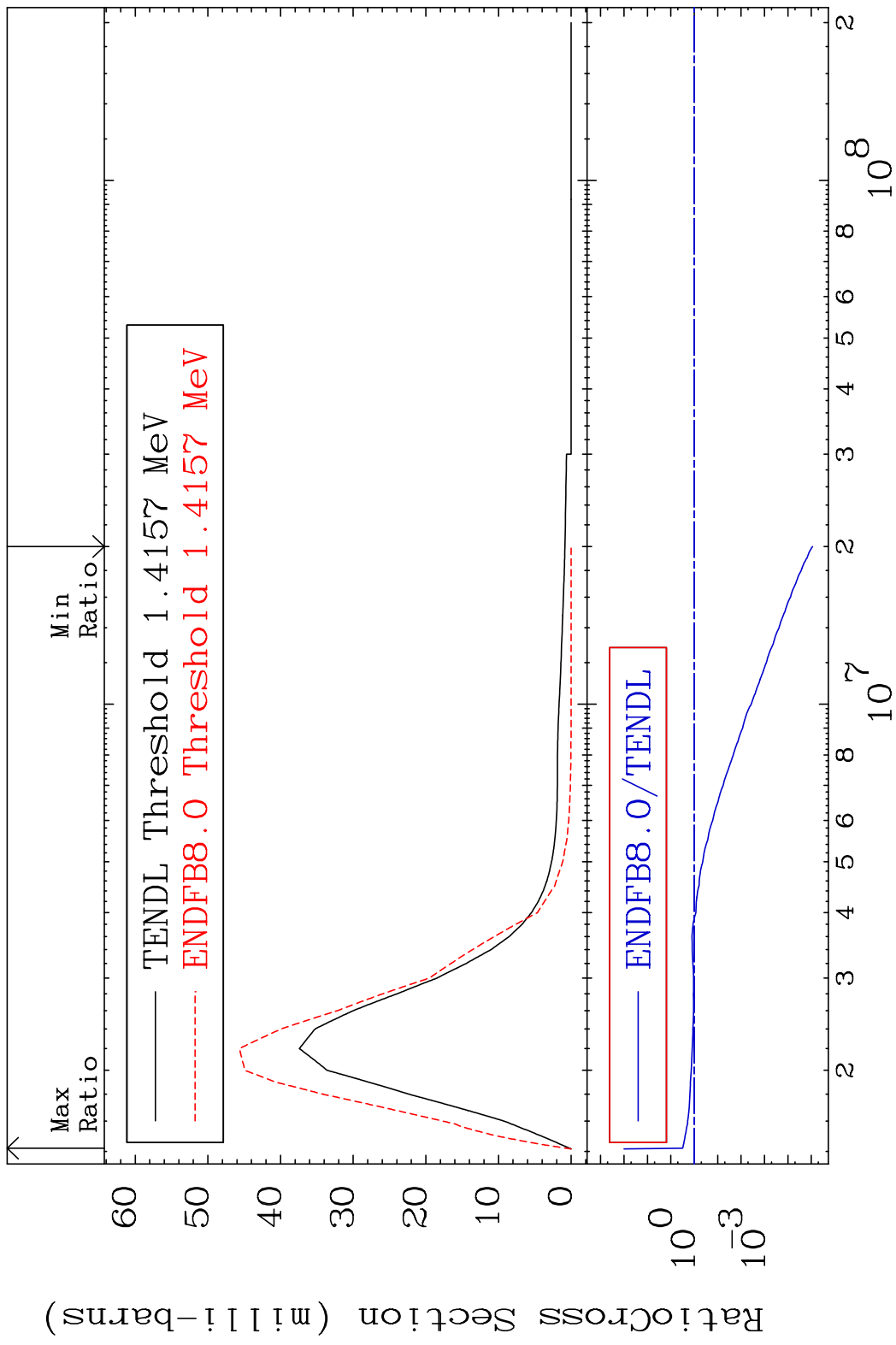
MAT 6443 MT= 69 (n,n') Level 64-Gd-158
 Cross Section -100.0 To 2.986 %



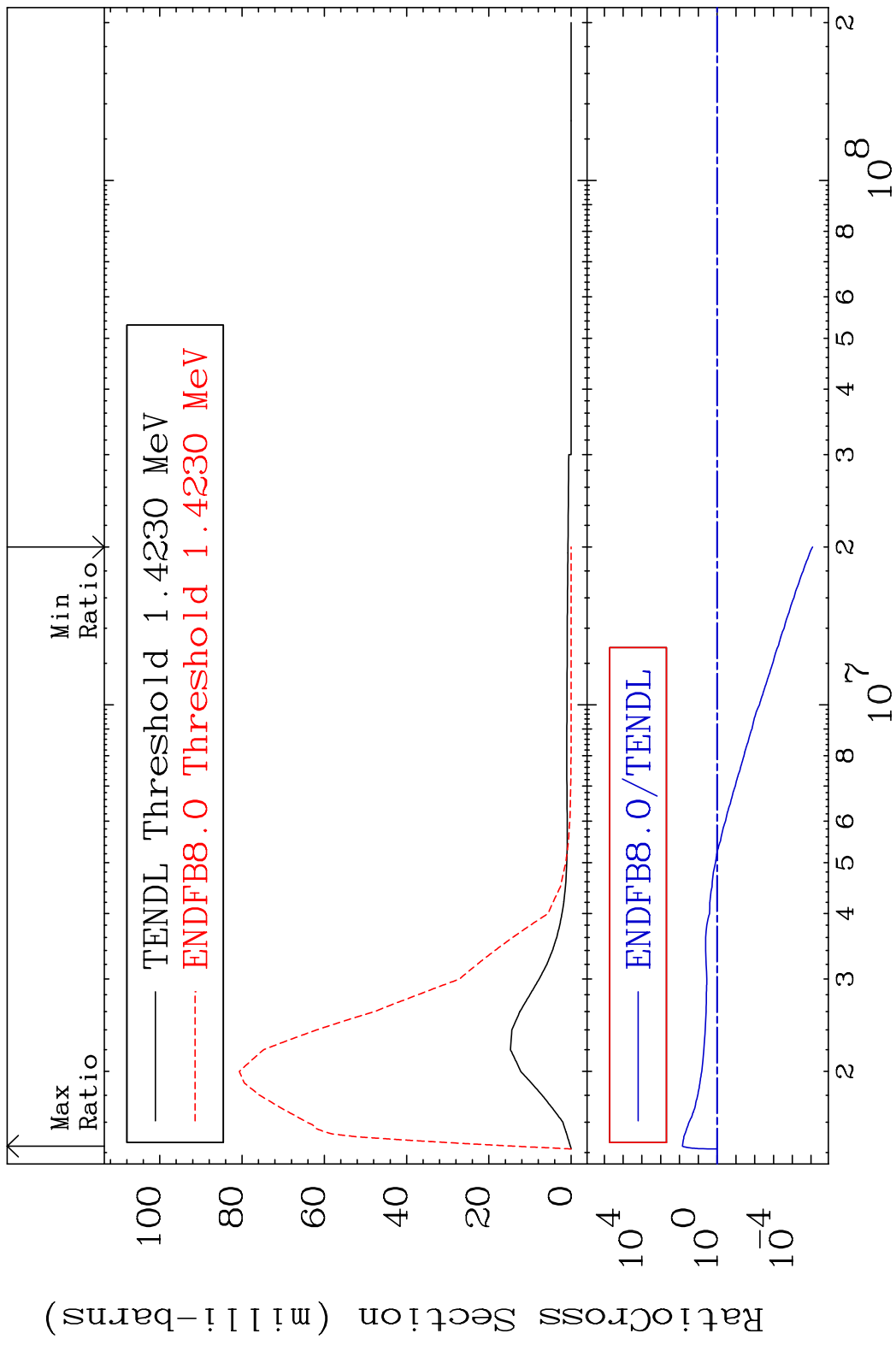
MAT 6443 MT= 70 (n,n') Level 64-Gd-158
 Cross Section -100.0 To 207.4 %



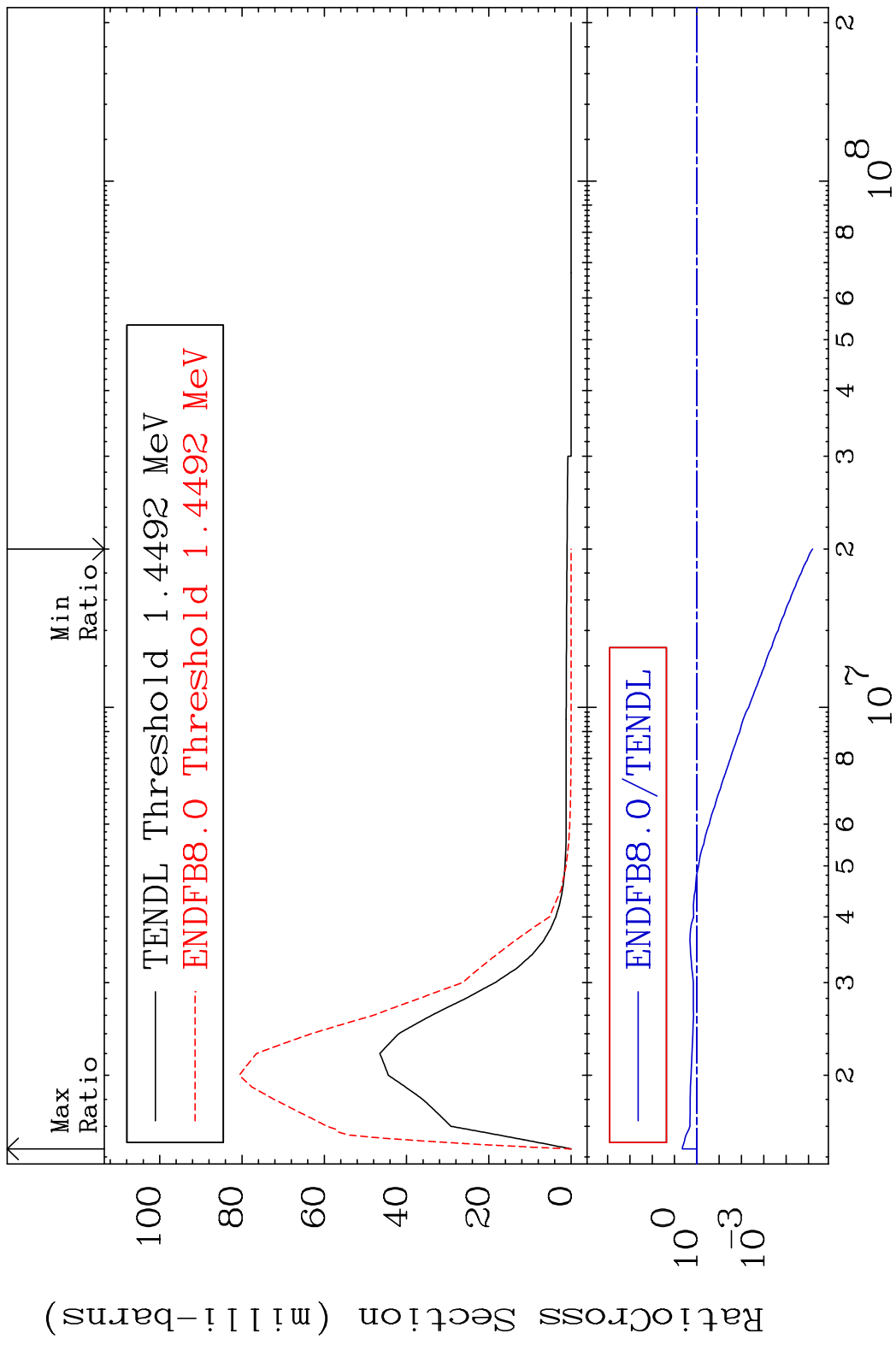
MAT 6443 MT= 71 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 221.7 %



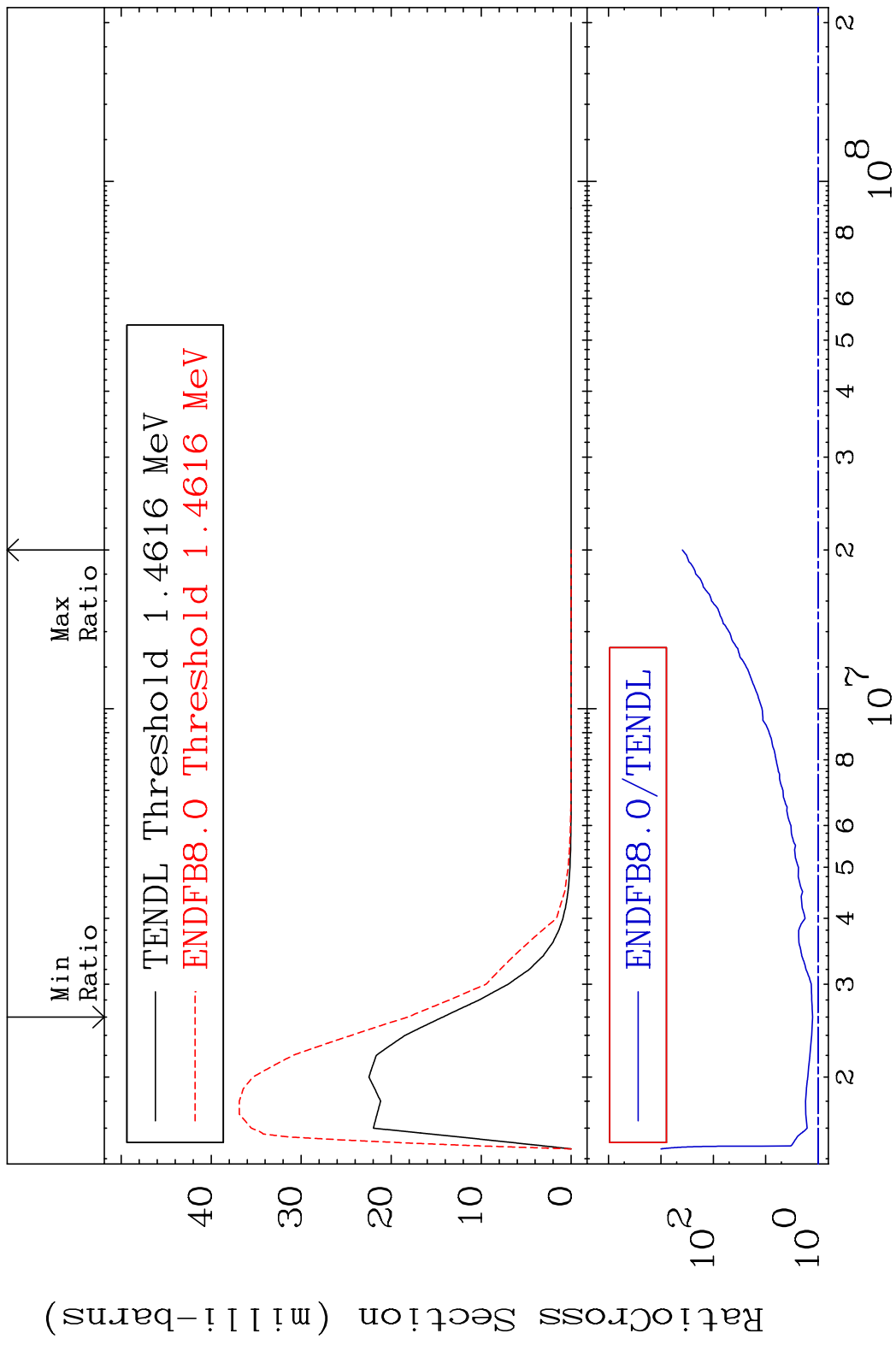
MAT 6443 MT= 72 (n,n') Level 64-Gd-158
 Cross Section -100.0 To 6958. %



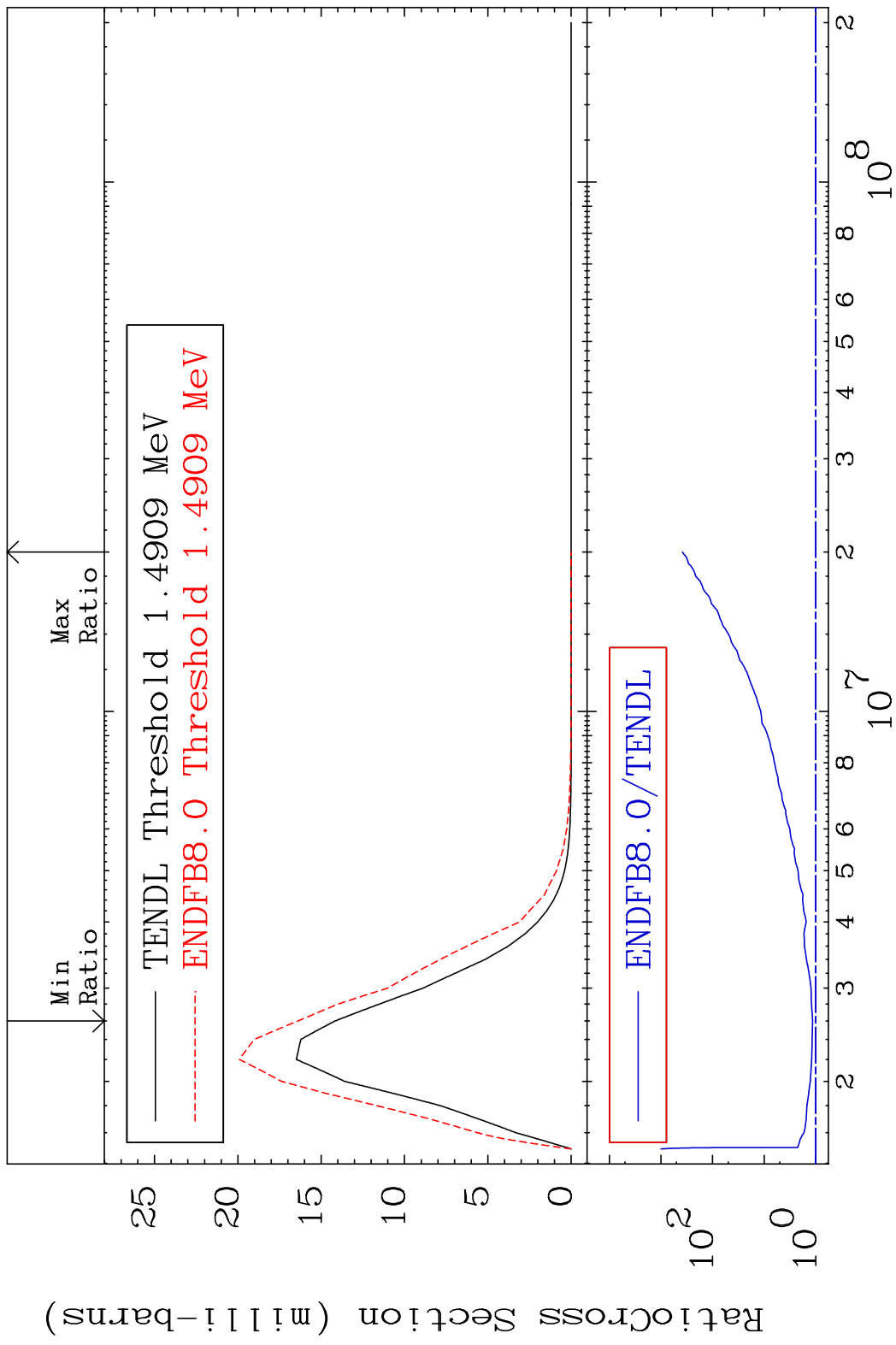
MAT 6443 MT= 73 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 345.8 %



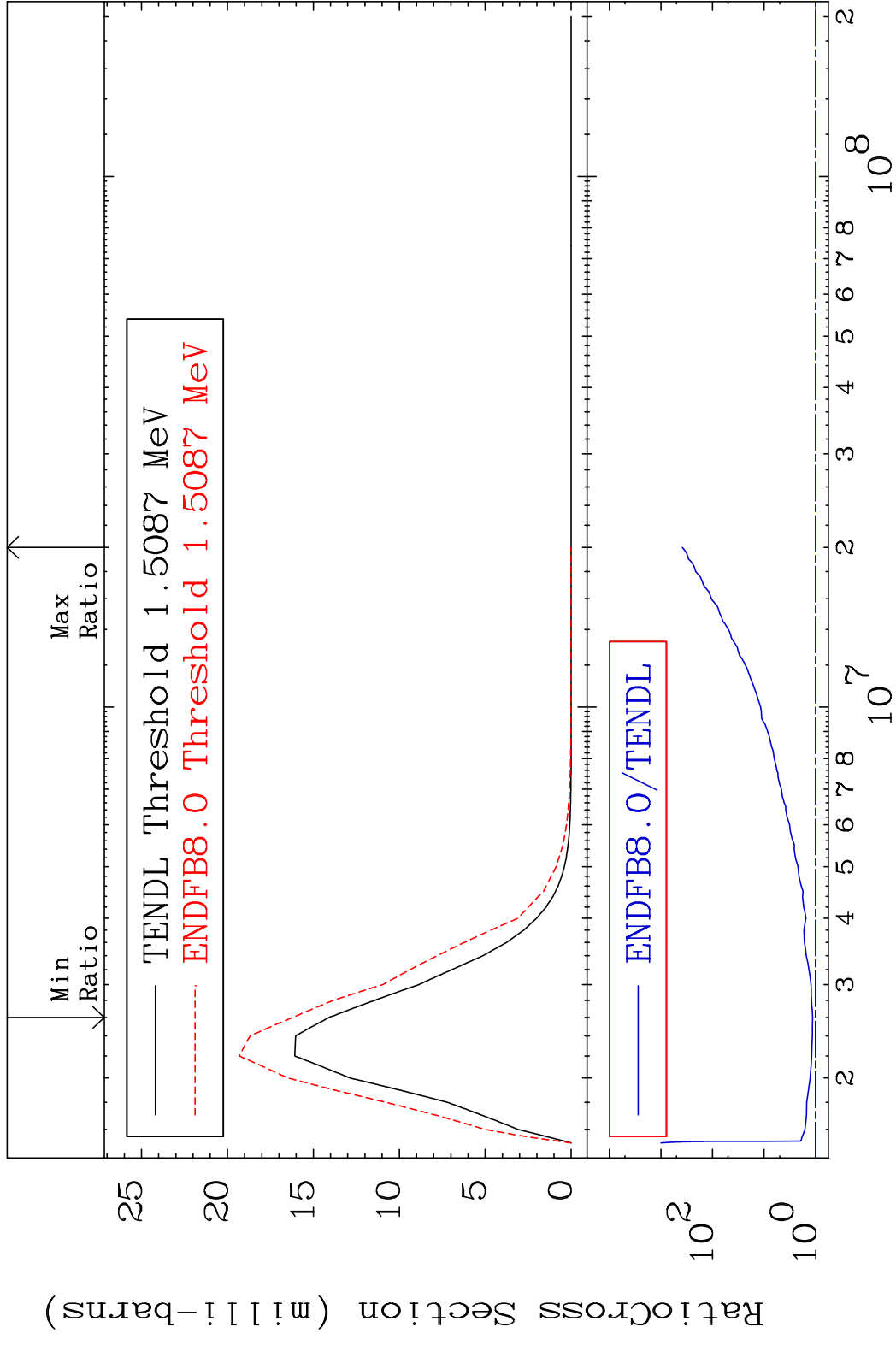
MAT 6443 MT= 74 (n, n') Level 64-Gd-158
 Cross Section 27.38 To 9999. %



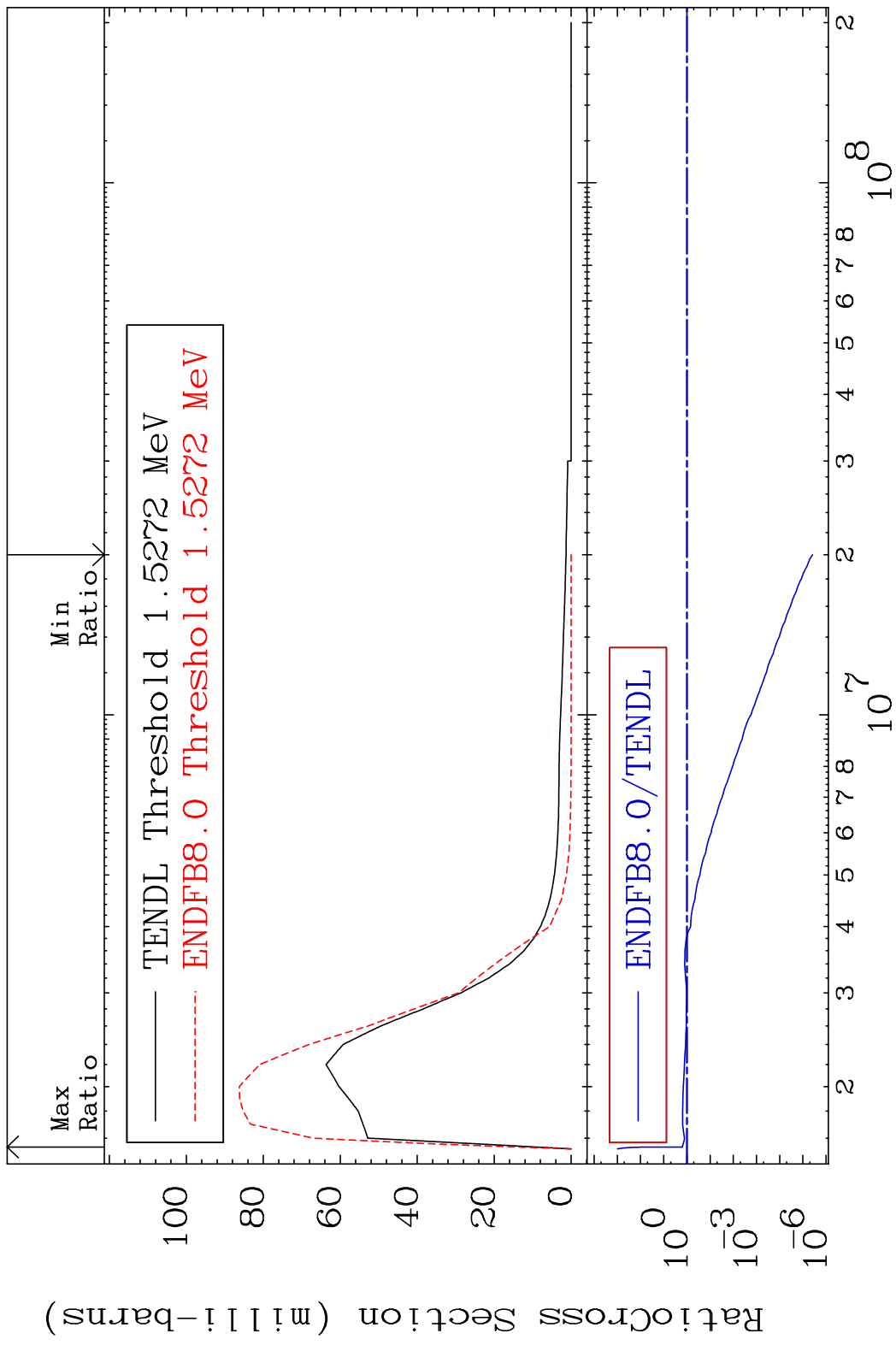
MAT 6443 MT= 75 (n, n') Level 64-Gd-158
 Cross Section 15.62 To 9999. %



MAT 6443 MT= 76 (n, n') Level 64-Gd-158
 Cross Section 15.05 To 9999. %



MAT 6443 MT= 77 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 57.03 %

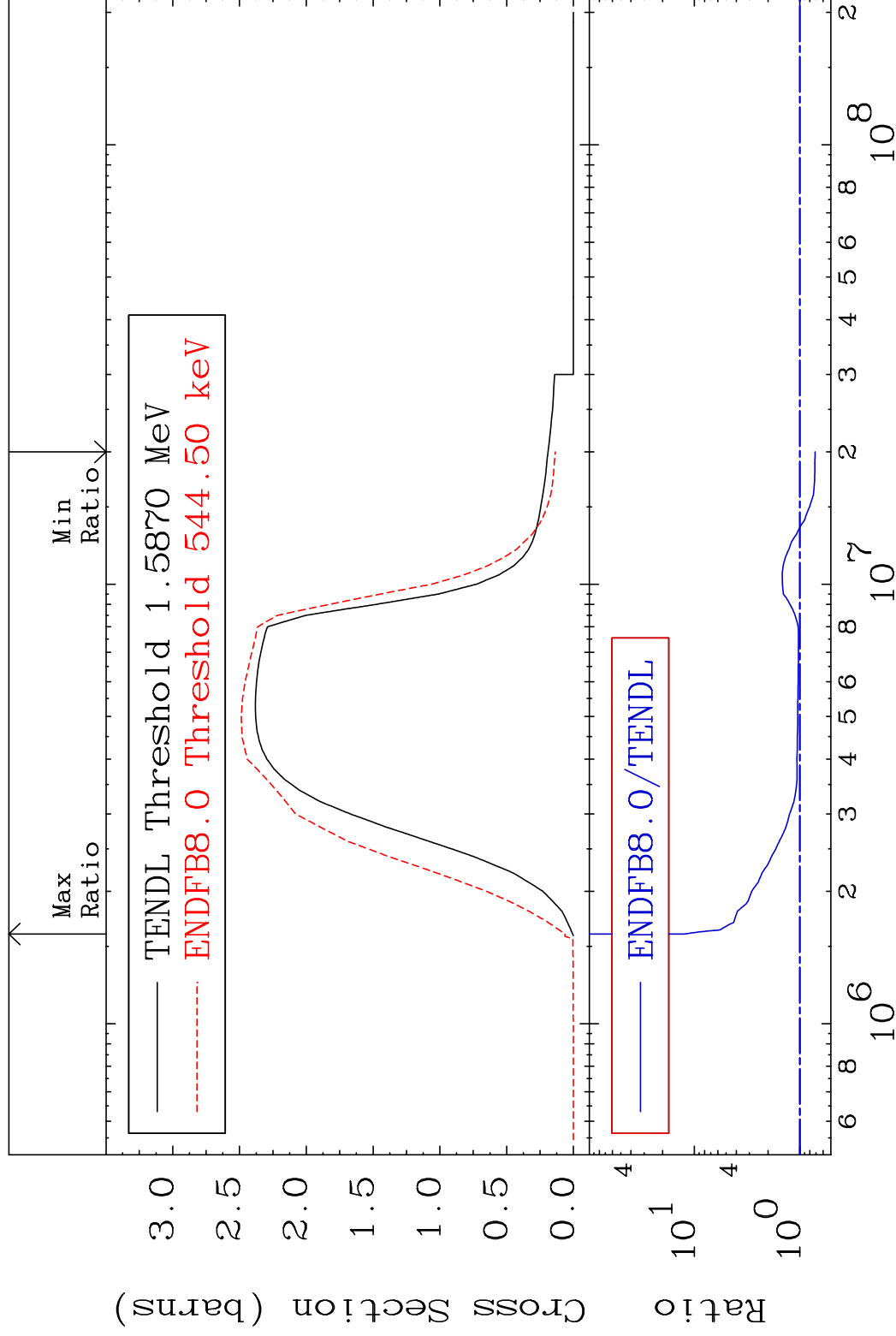


MAT 6443

(n, n') Continuum

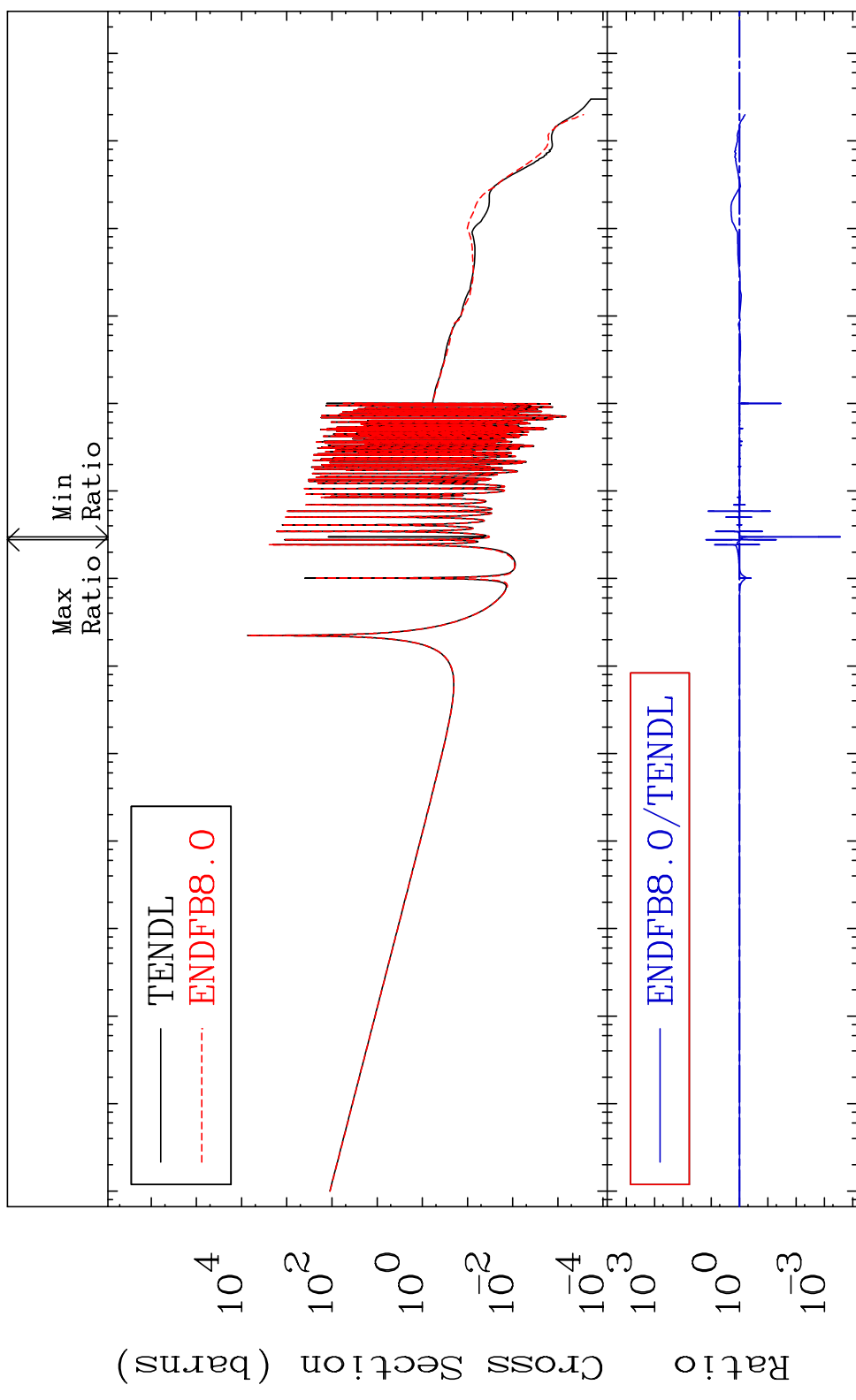
64-Gd-158

Cross Section -28.49 To 1136. %



MAT 6443

(n, γ)
Cross Section -99.97 To 1449. %
64-Gd-158



38

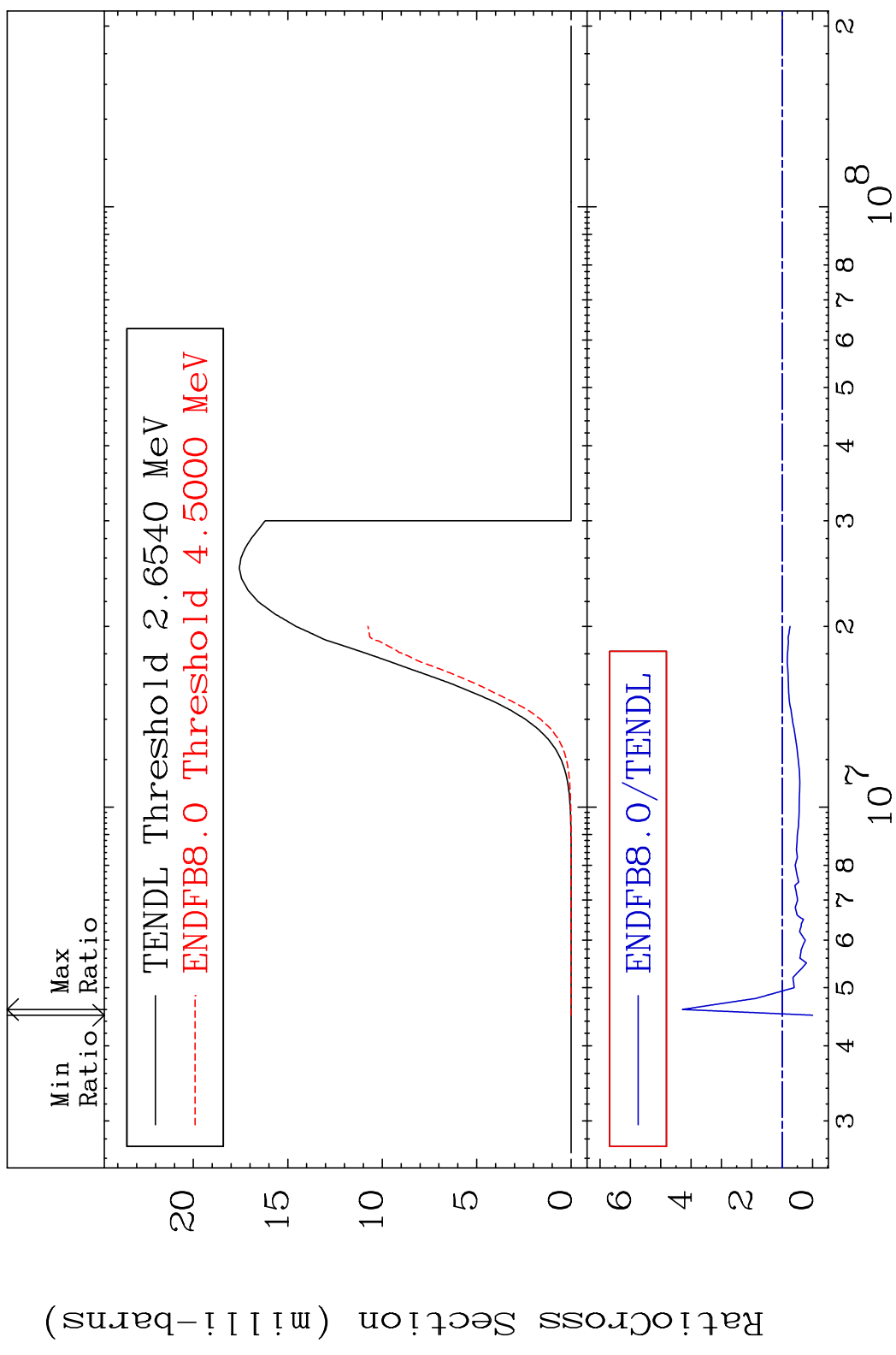
Incident Energy (eV) 64-Gd-158

MAT 6443

(n, p)

64-Gd-158

Cross Section -100.0 To 328.8 %

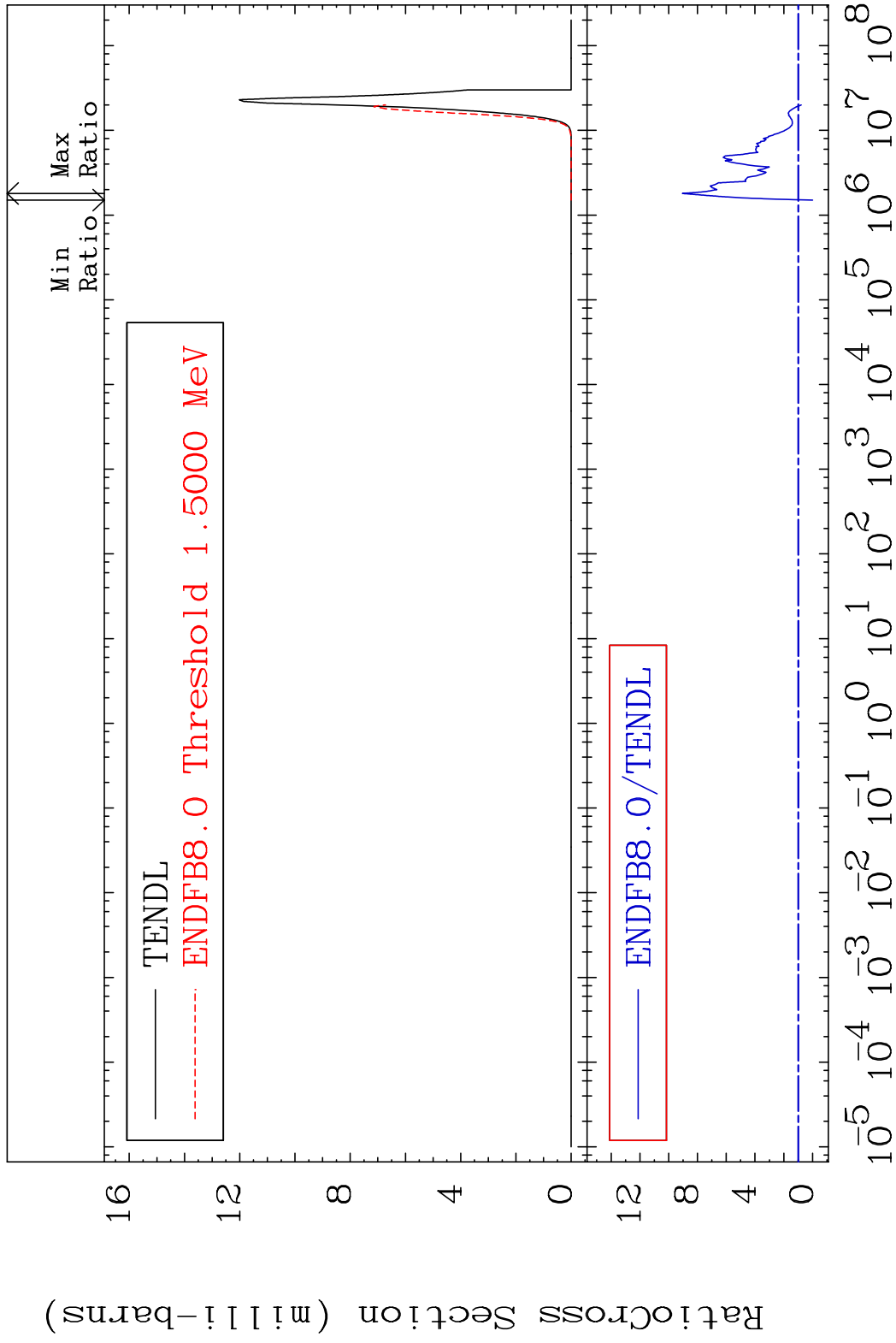


MAT 6443

(n, α)

64-Gd-158

Cross Section -100.0 To 805.0 %

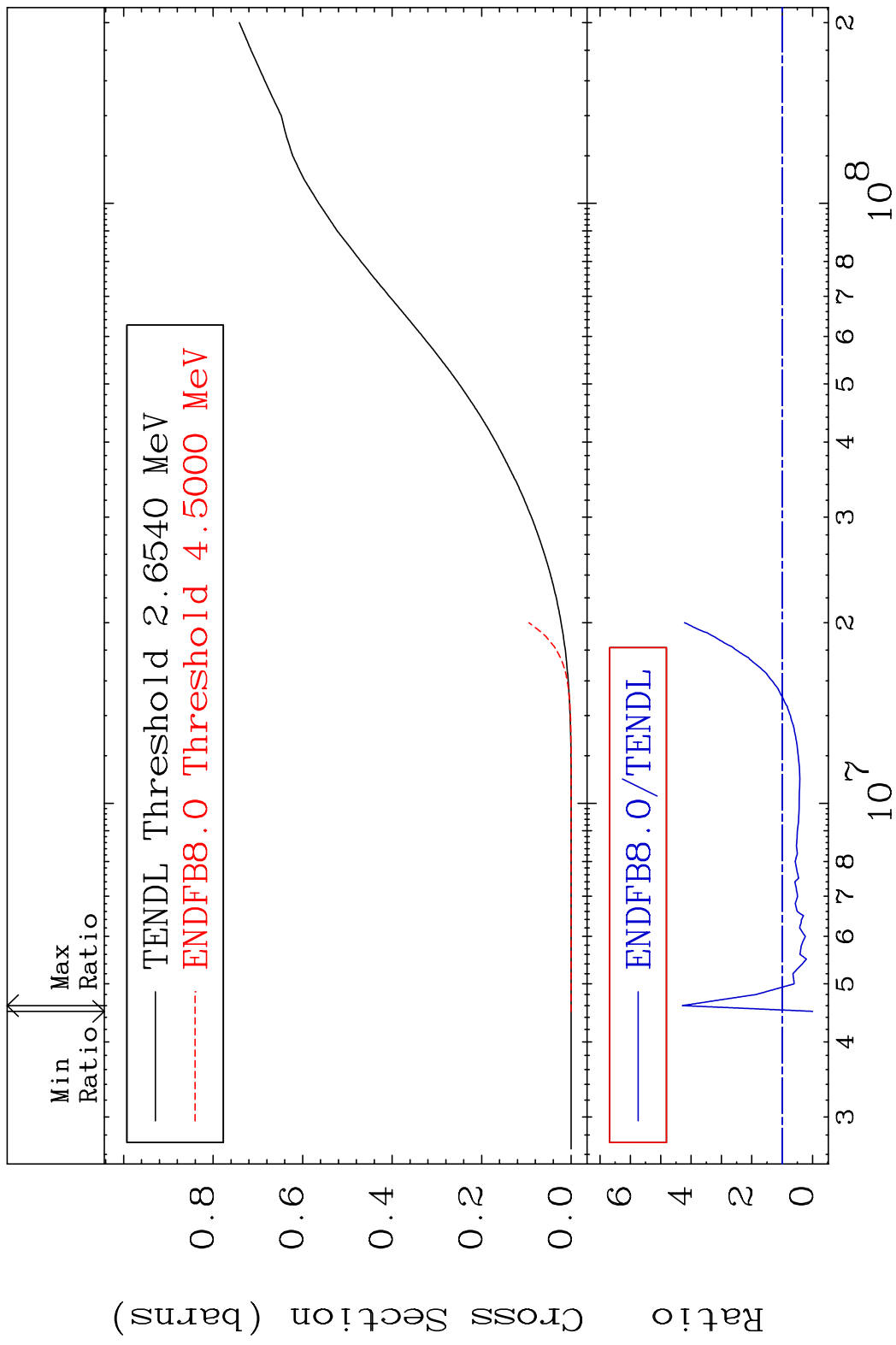


40

Incident Energy (eV)

64-Gd-158

MAT 6443 Hydrogen Production 64-Gd-158
 Cross Section -100.0 To 328.8 %

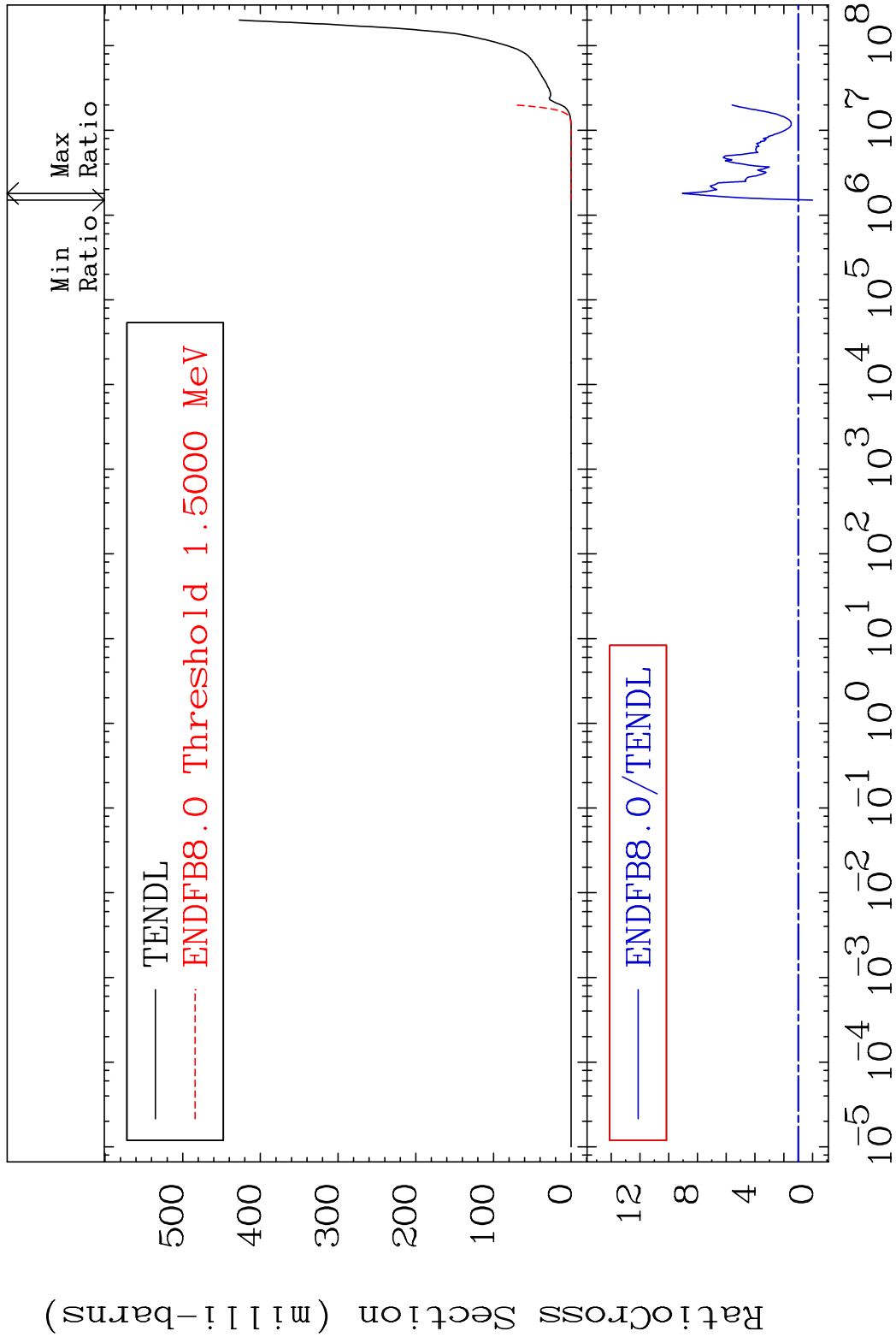


MAT 6443

He-4 Production

64-Gd-158

Cross Section -100.0 To 805.0 %

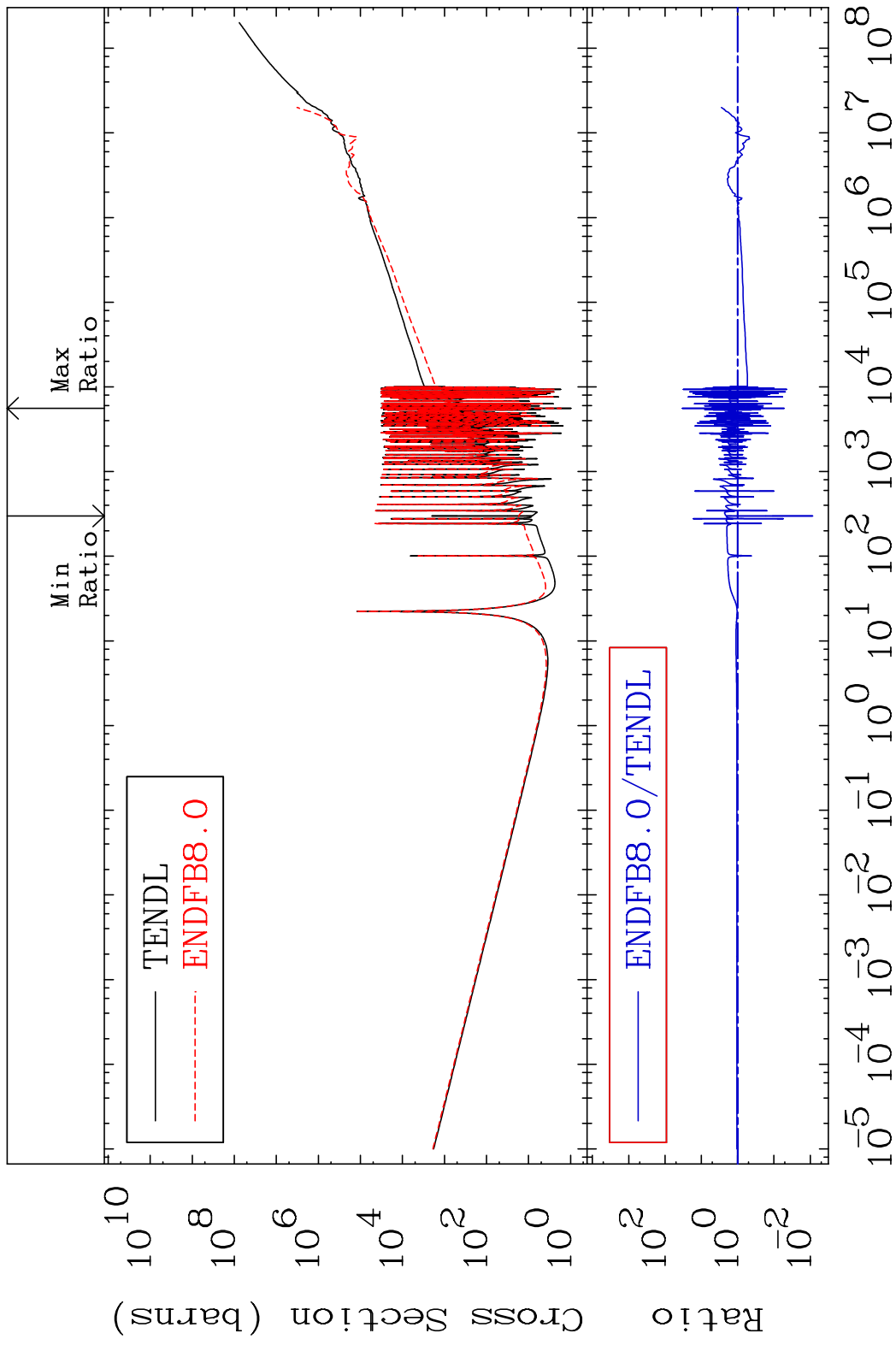


42

Incident Energy (eV)

64-Gd-158

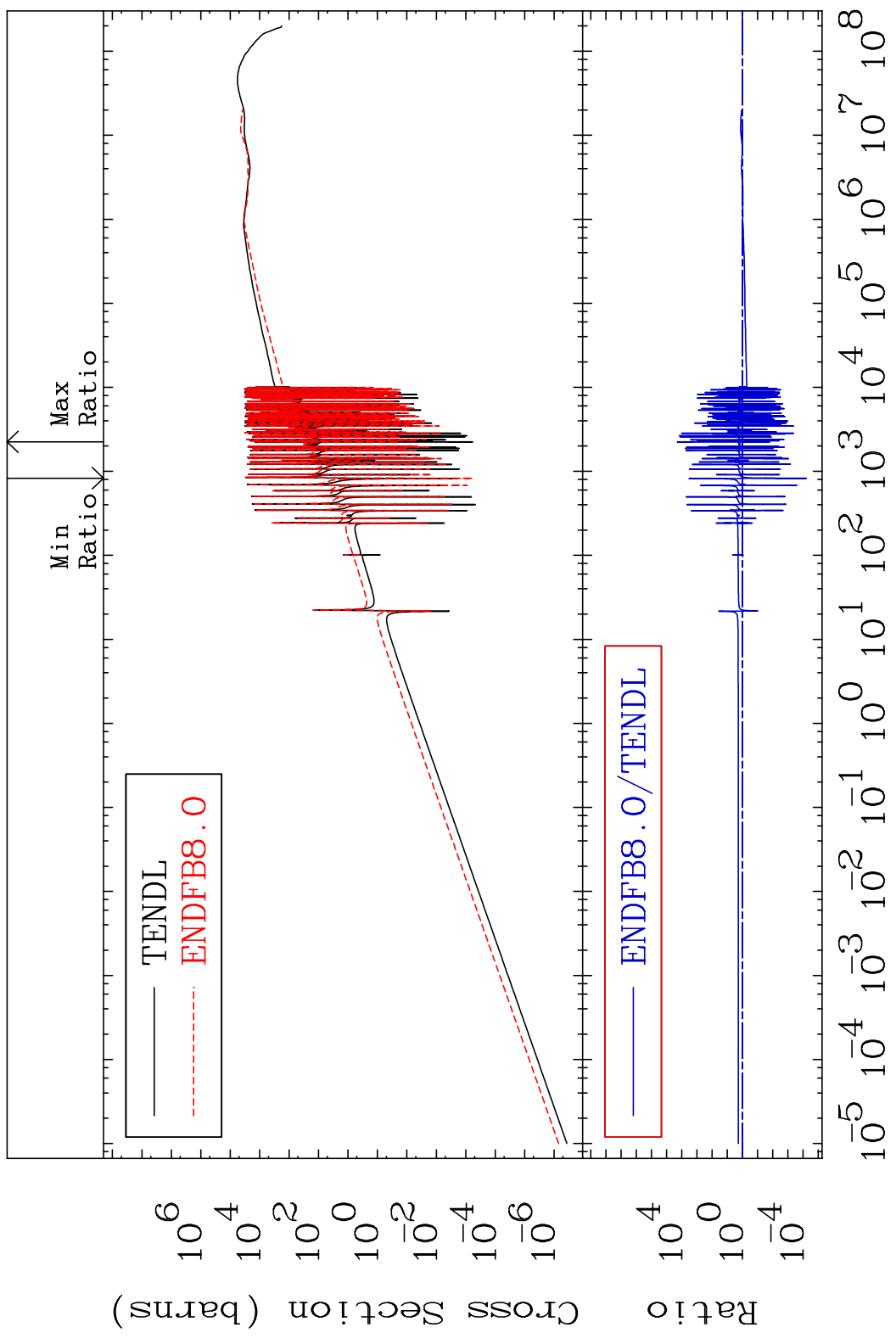
MAT 6443 Kerma total (eV-barns) 64-Gd-158
 Cross Section -99.14 To 3230. %



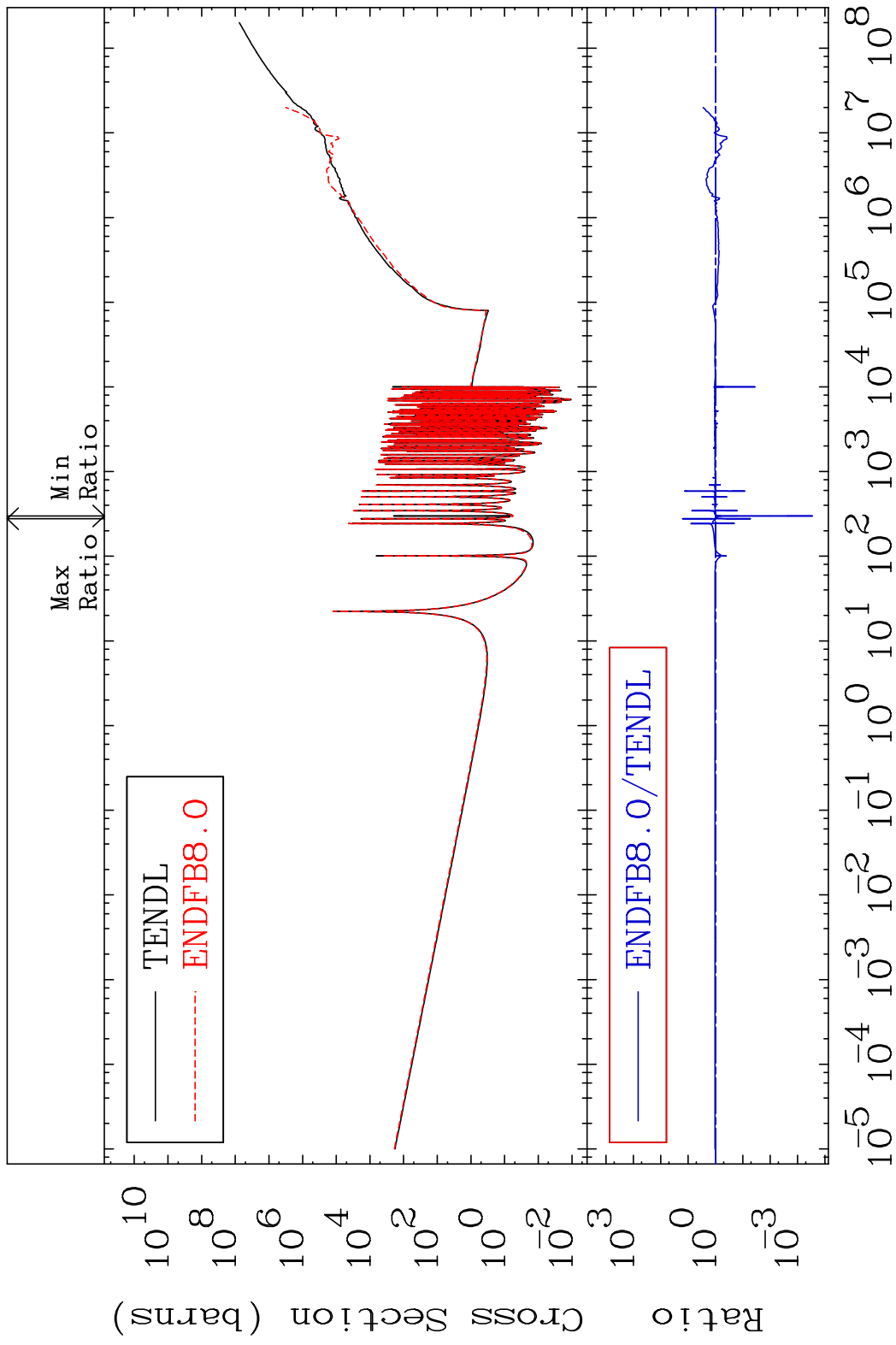
43 Incident Energy (eV) 64-Gd-158

MAT 6443

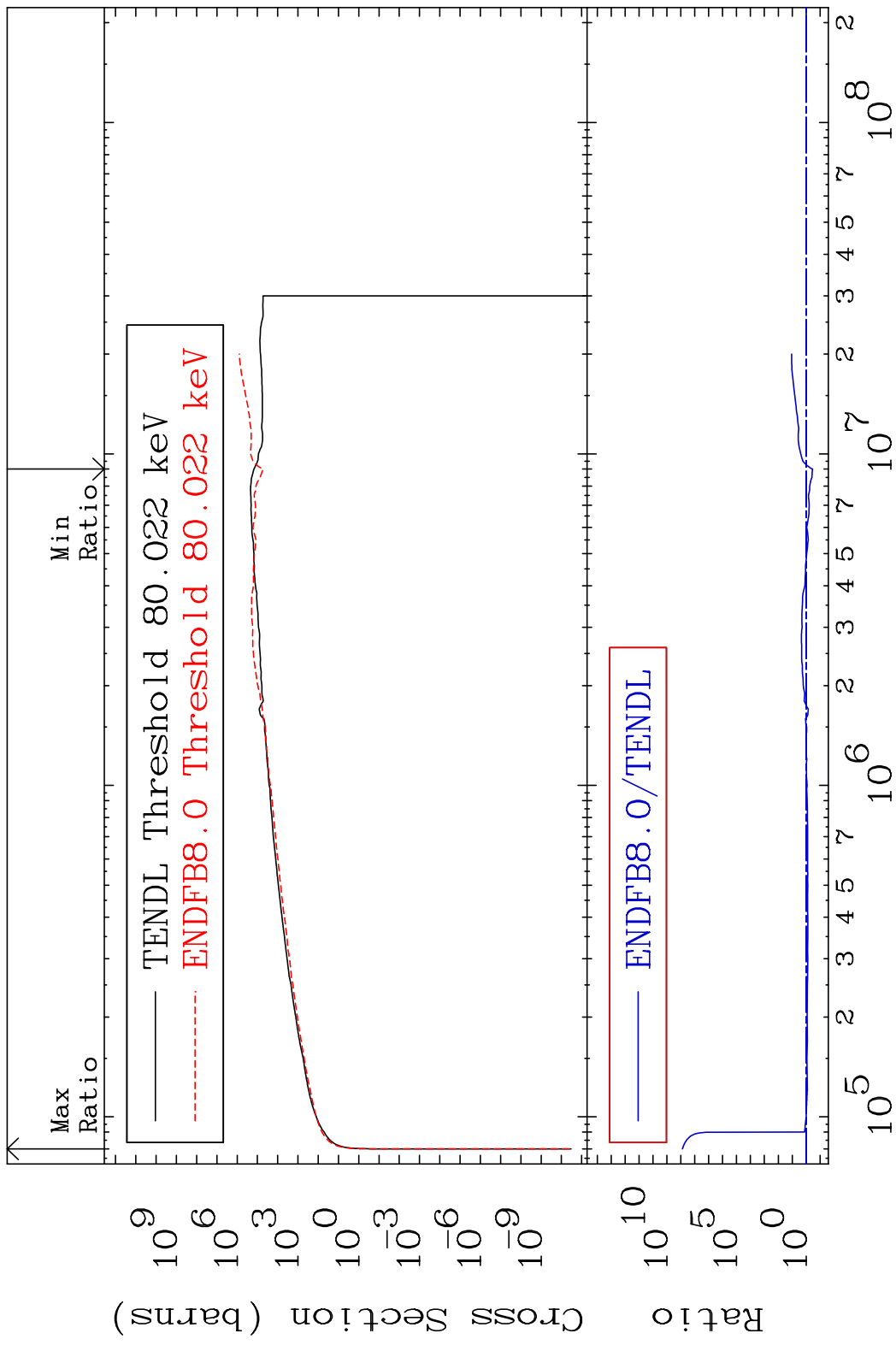
Kerma elastic Cross Section -99.99 To 9999. %
64-Gd-158



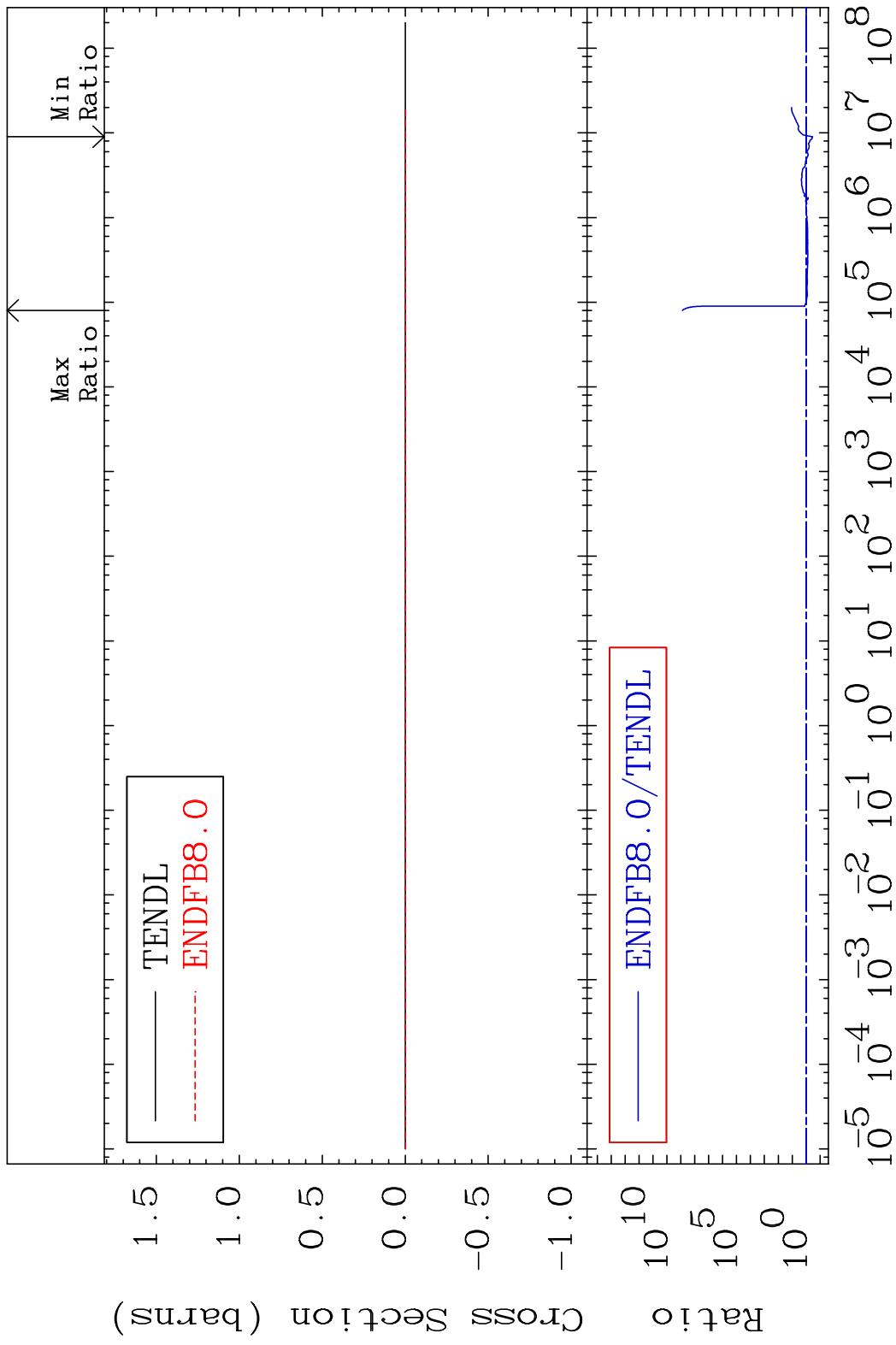
MAT 6443 Kerma non-elastic (all but mt2) 64-Gd-158
 Cross Section -99.97 To 1530. %



MAT 6443 Kerma inelastic (mt51-91) 64-Gd-158
 Cross Section -65.41 To 9999. %

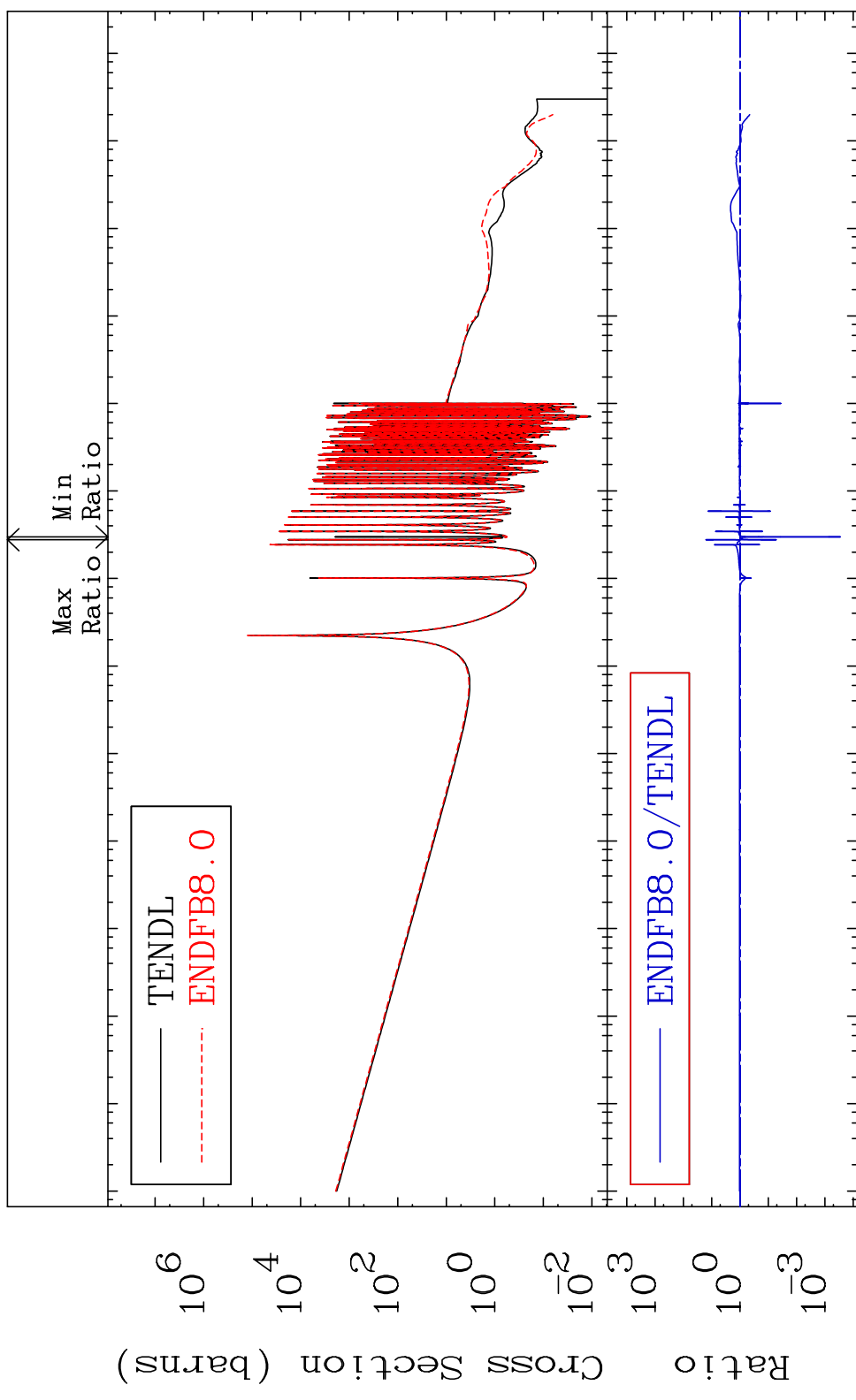


MAT 6443 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-158
 Cross Section -65.41 To 9999. %



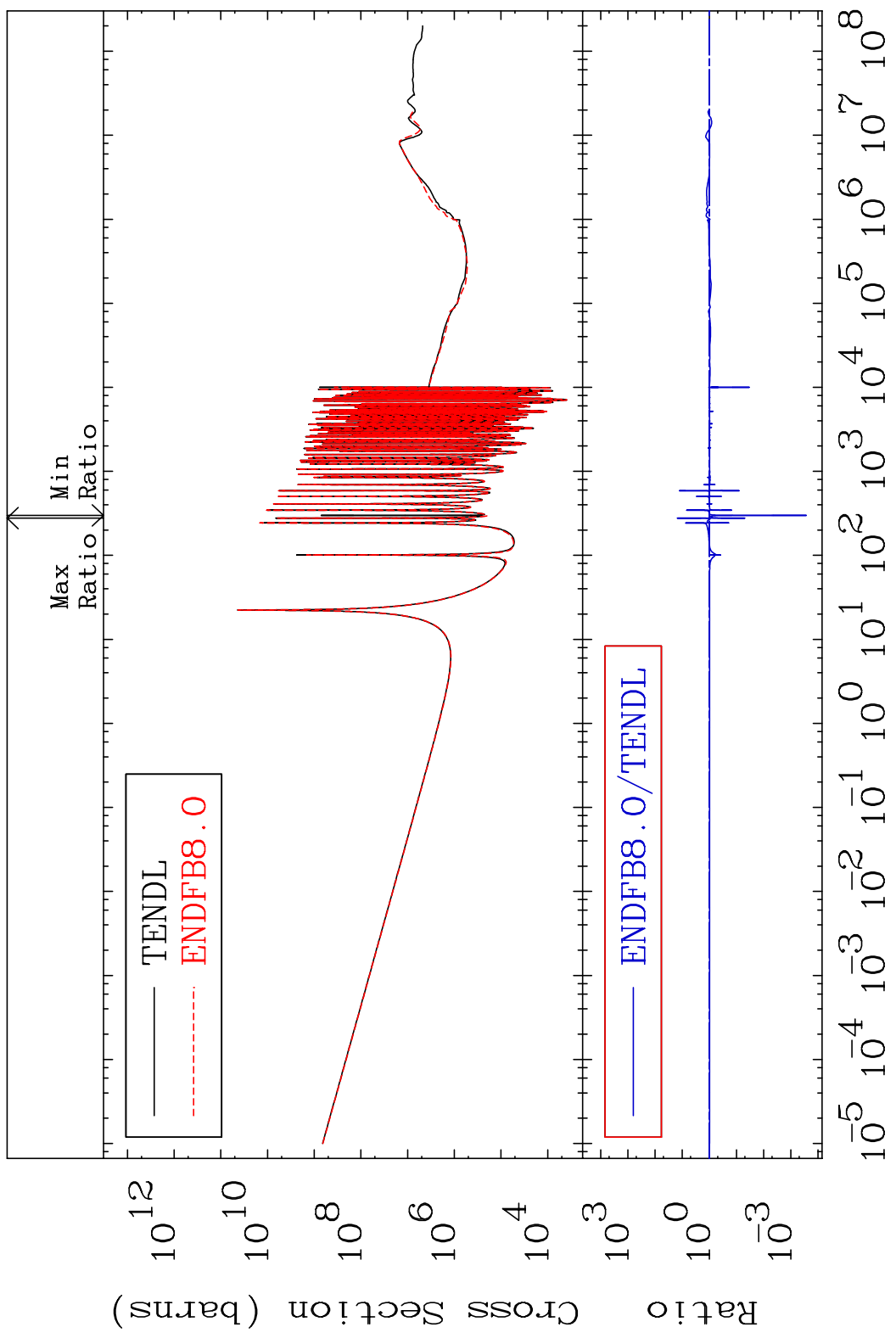
MAT 6443

Kerma capture (mt102) 64-Gd-158
Cross Section -99.97 To 1530. %



MAT 6443

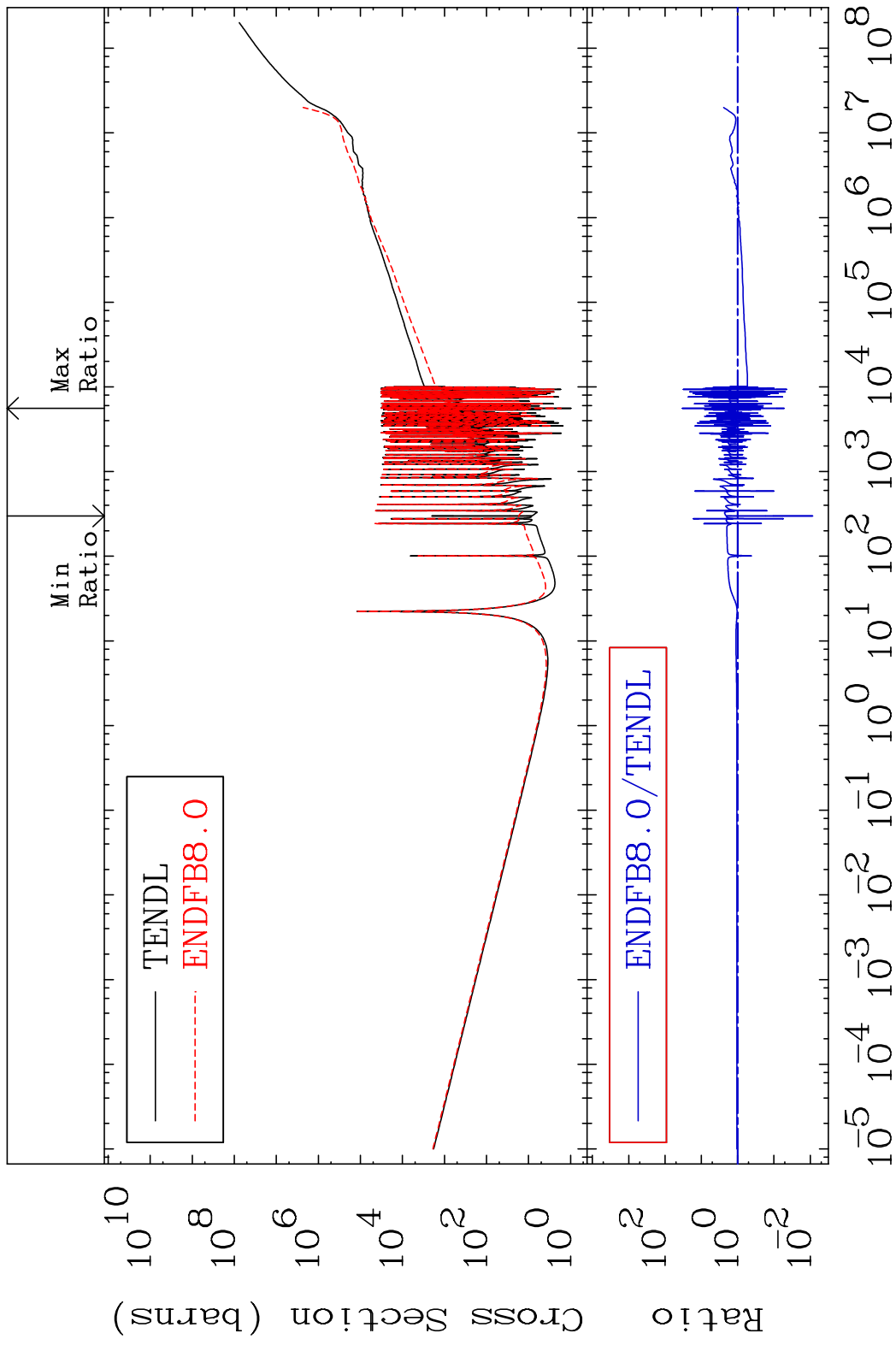
Total photon (eV-barns) 64-Gd-158
Cross Section -99.97 To 1444. %



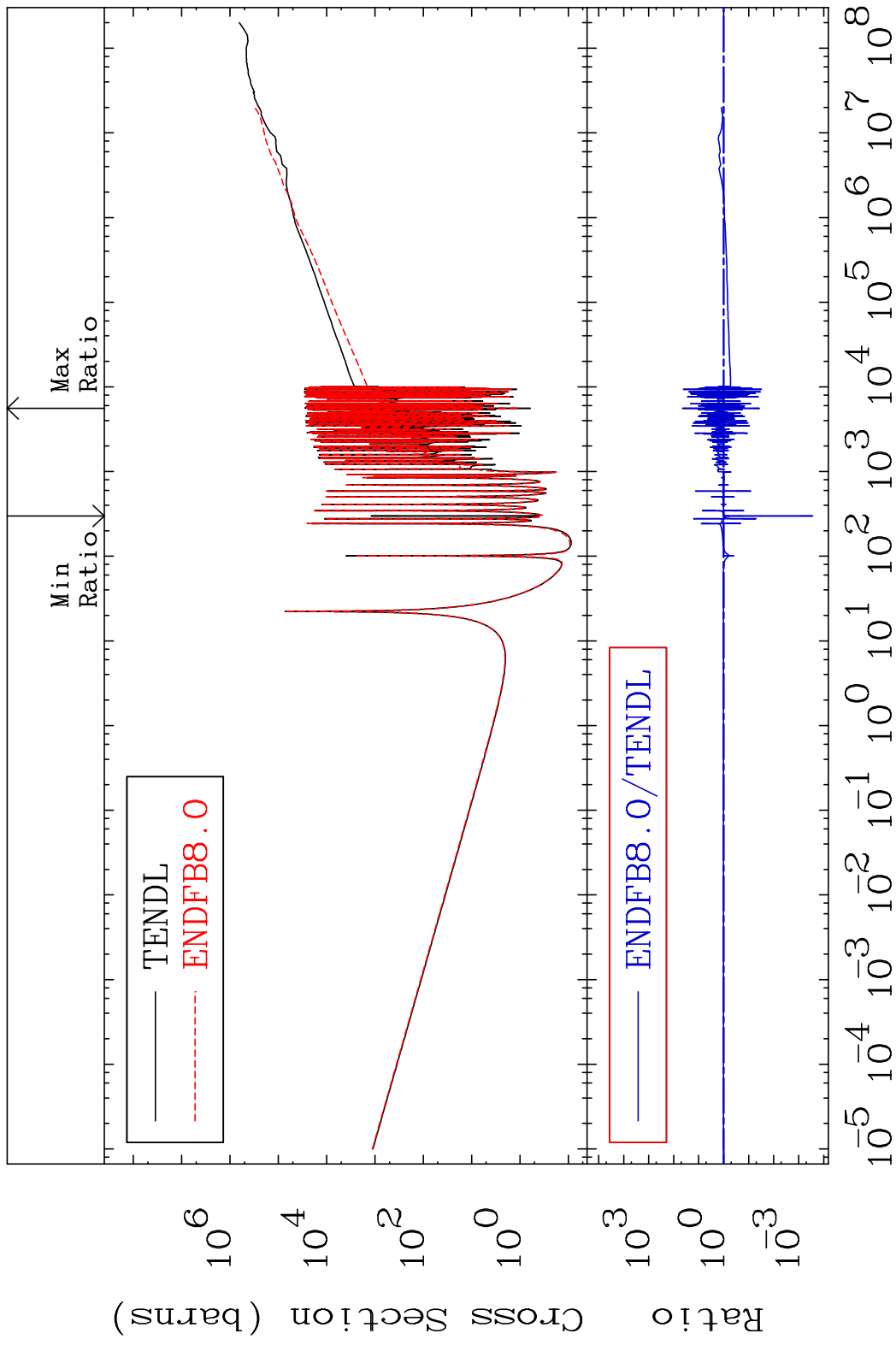
49

Incident Energy (eV) 64-Gd-158

MAT 6443 Total kinematic kerma (high limit) 64-Gd-158
 Cross Section -99.14 To 3230. %



MAT 6443 Dpa total (eV-barns) 64-Gd-158
 Cross Section -99.97 To 4404. %

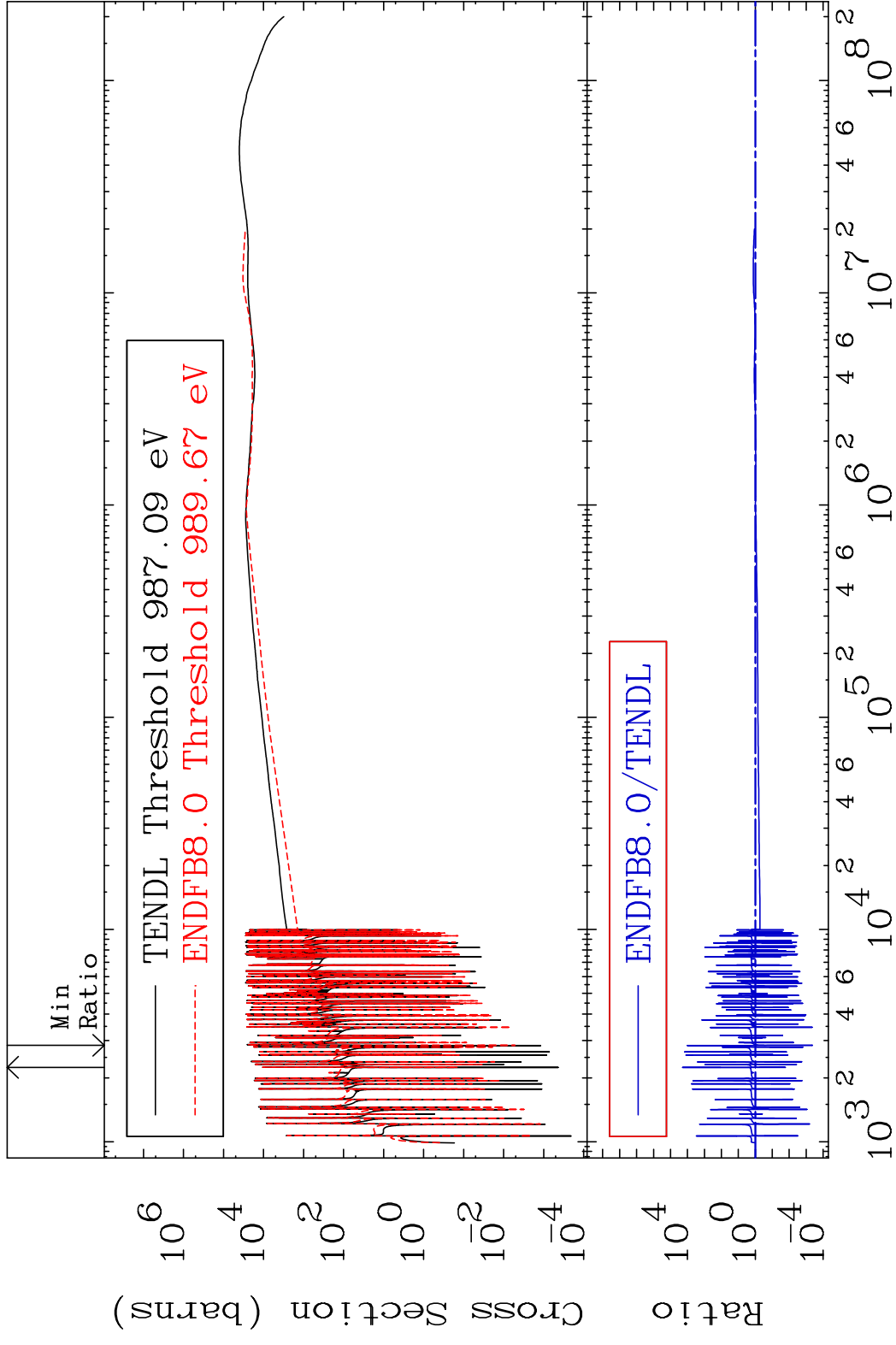


MAT 6443

Dpa elastic (mt2)

64-Gd-158

Cross Section -99.96 To 9999. %



52

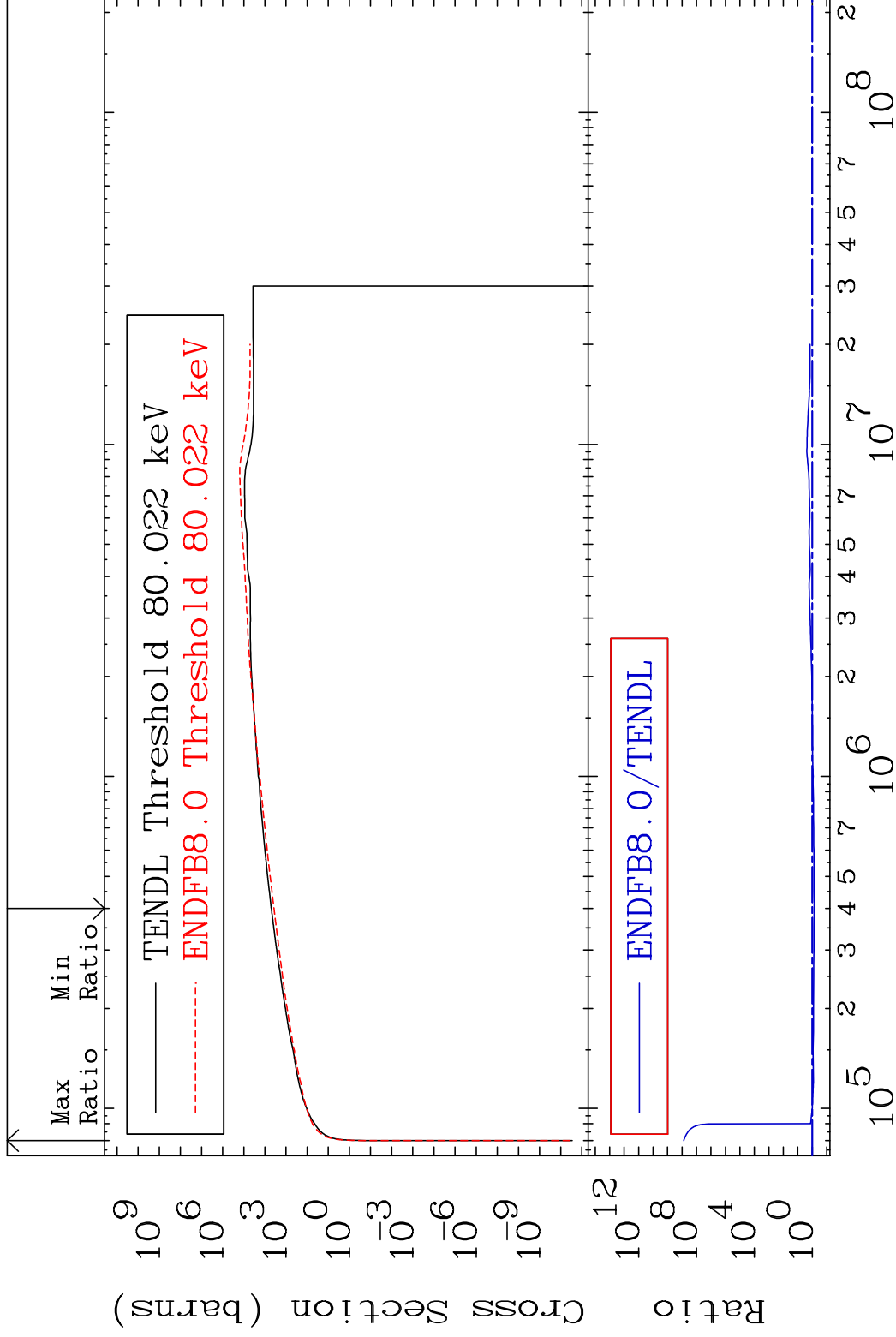
Incident Energy (eV)

64-Gd-158

MAT 6443

Dpa inelastic (mt51-91) 64-Gd-158

Cross Section -25.23 To 9999. %



53

Incident Energy (eV)

64-Gd-158

MAT 6443 Dpa disappearance (mt102 -120) 64-Gd-158
 Cross Section -99.97 To 1497. %

