

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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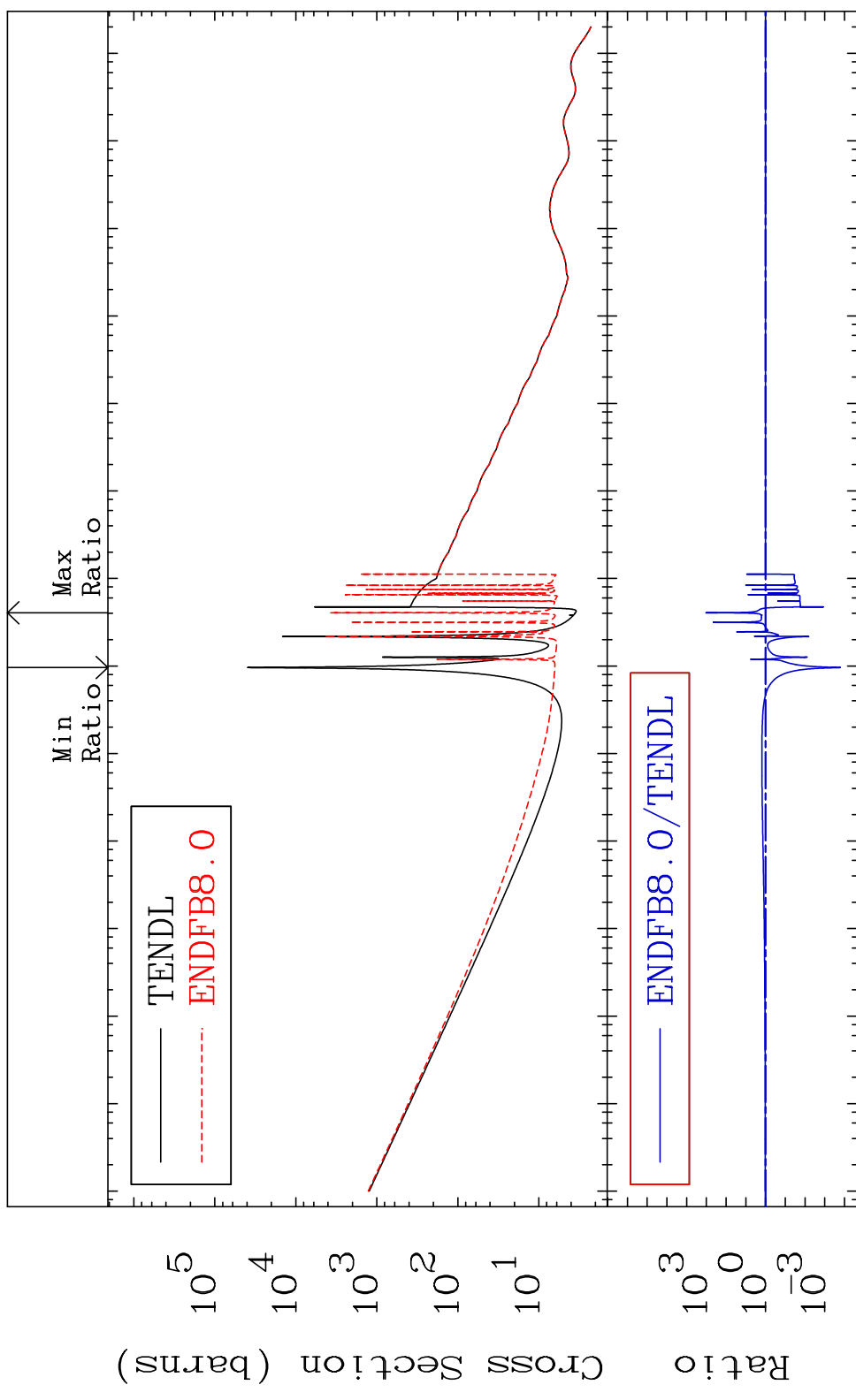
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6137

Total Cross Section -99.98 To 9999. % 61-Pm-143



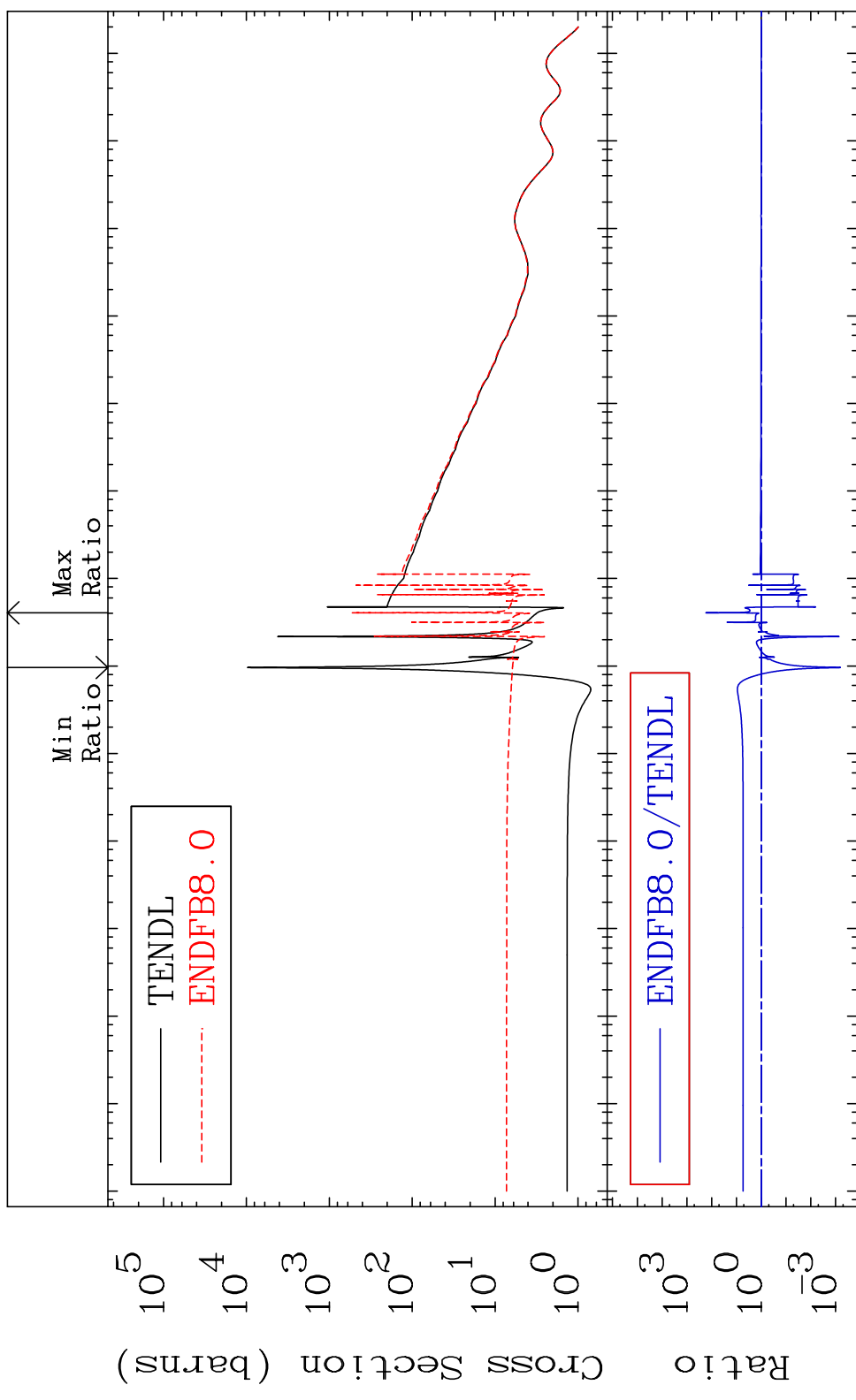
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

1 Incident Energy (eV) 61-Pm-143

MAT 6137

Elastic Cross Section -99.94 To 9999. %

61-Pm-143

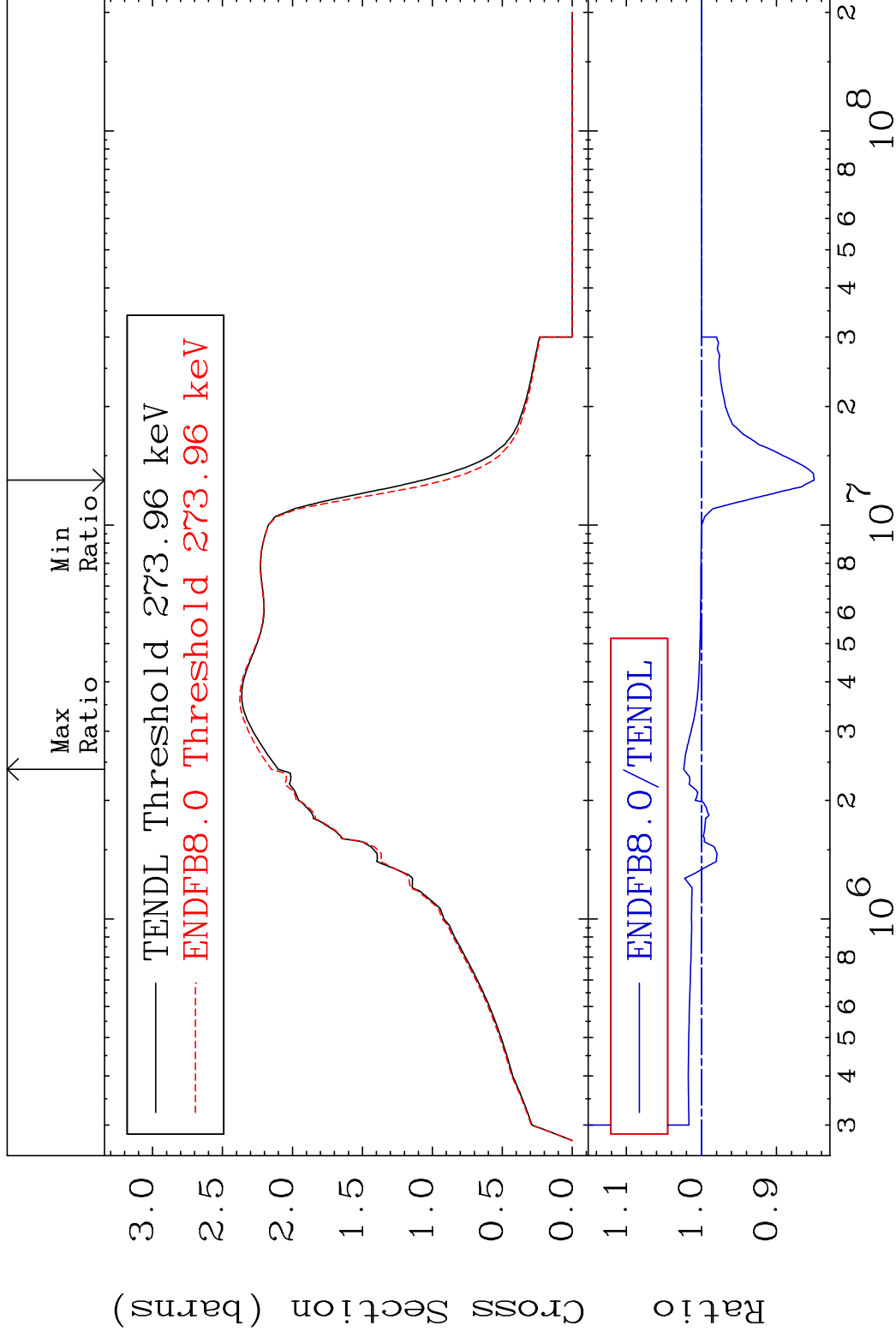


MAT 6137

Inelastic

61-Pm-143

Cross Section -15.00 To 2.376 %



3

Incident Energy (eV)

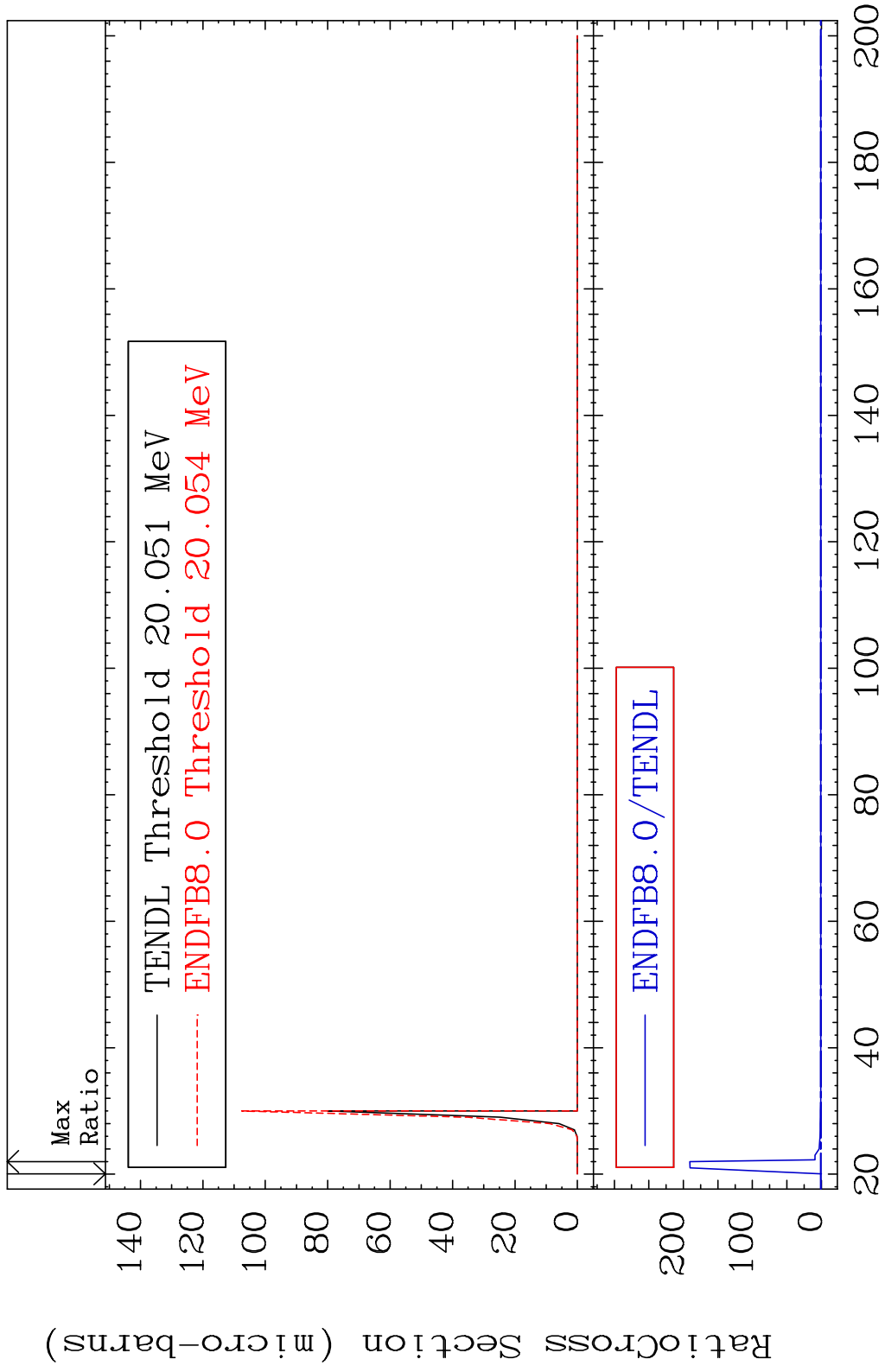
61-Pm-143

MAT 6137

(n,2n) d

61-Pm-143

Cross Section -100.0 To 9999. %



4

Incident Energy (MeV)

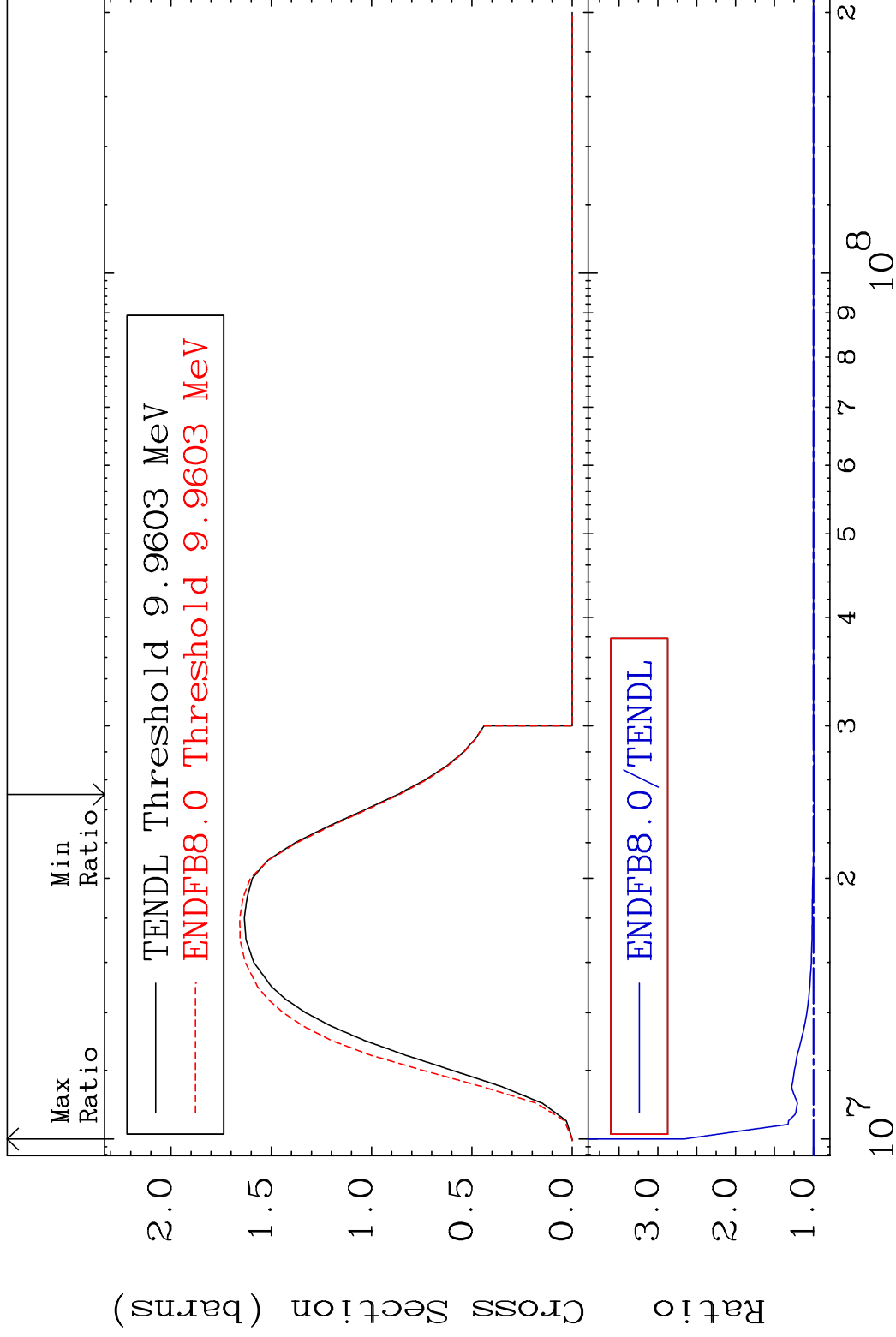
61-Pm-143

MAT 6137

(n,2n)

61-Pm-143

Cross Section -0.921 To 166.9 %



5

Incident Energy (eV)

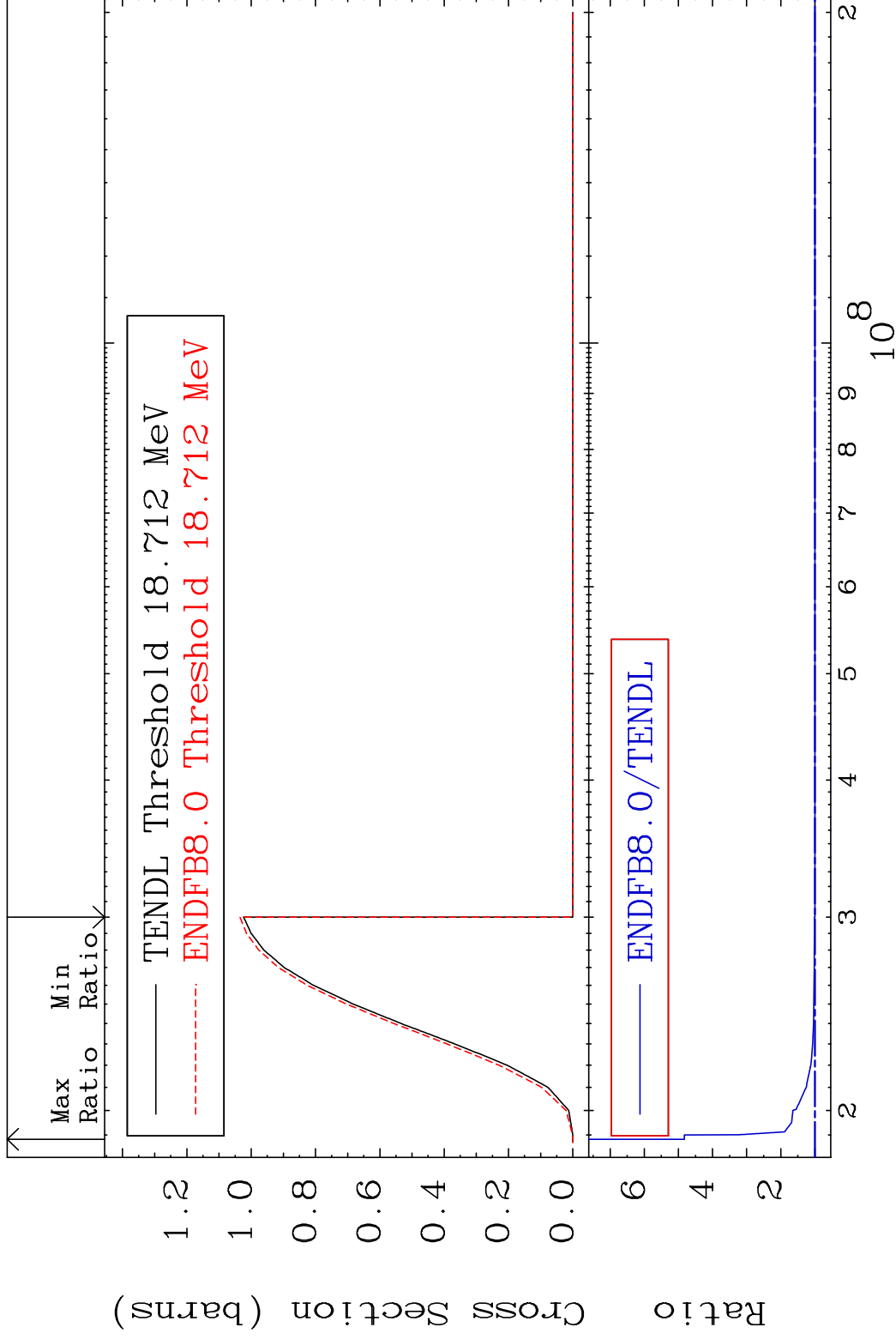
61-Pm-143

MAT 6137

(n,3n)

61-Pm-143

Cross Section 0.000 To 382.7 %



6

Incident Energy (eV)

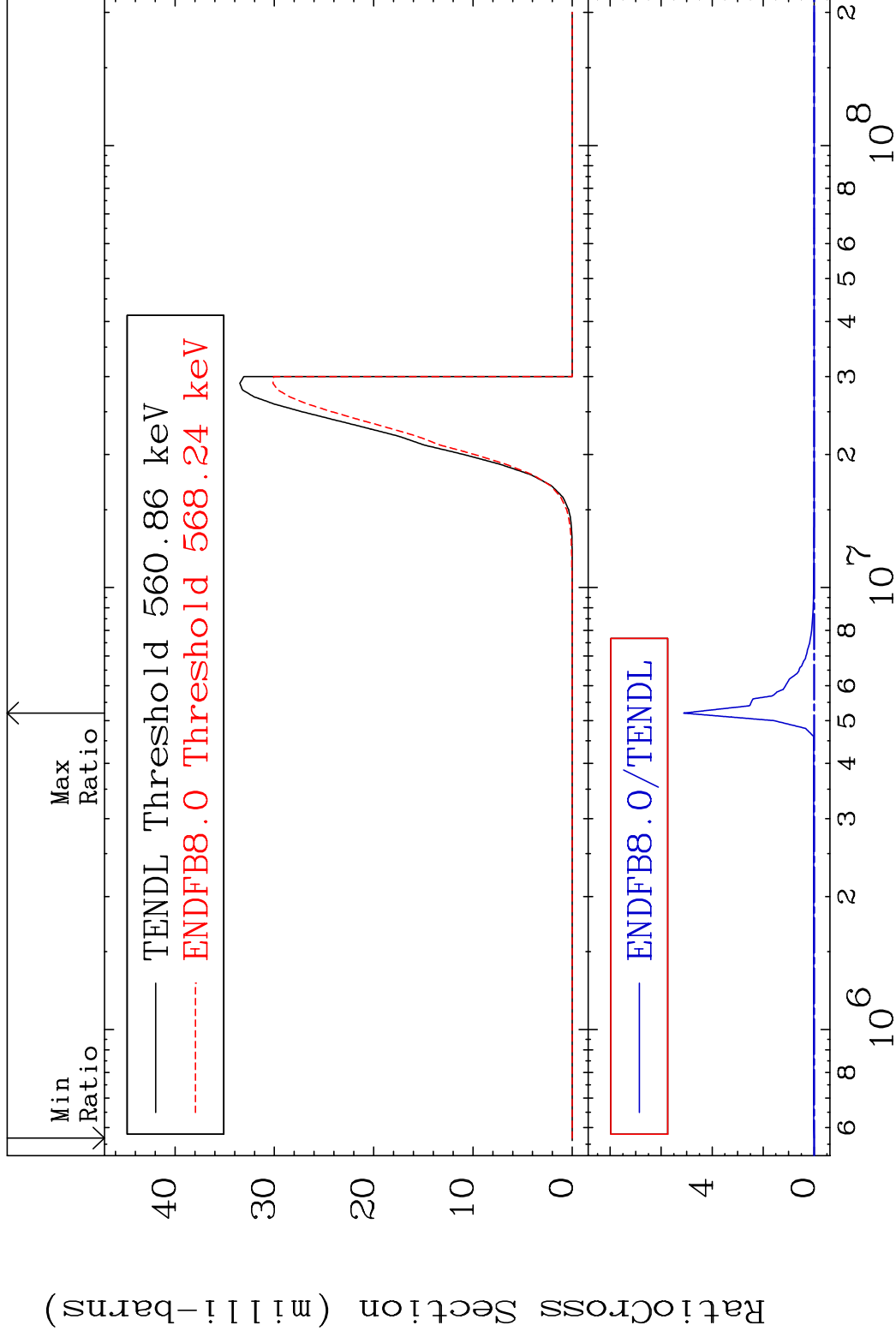
61-Pm-143

MAT 6137

(n, n') α

61-Pm-143

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

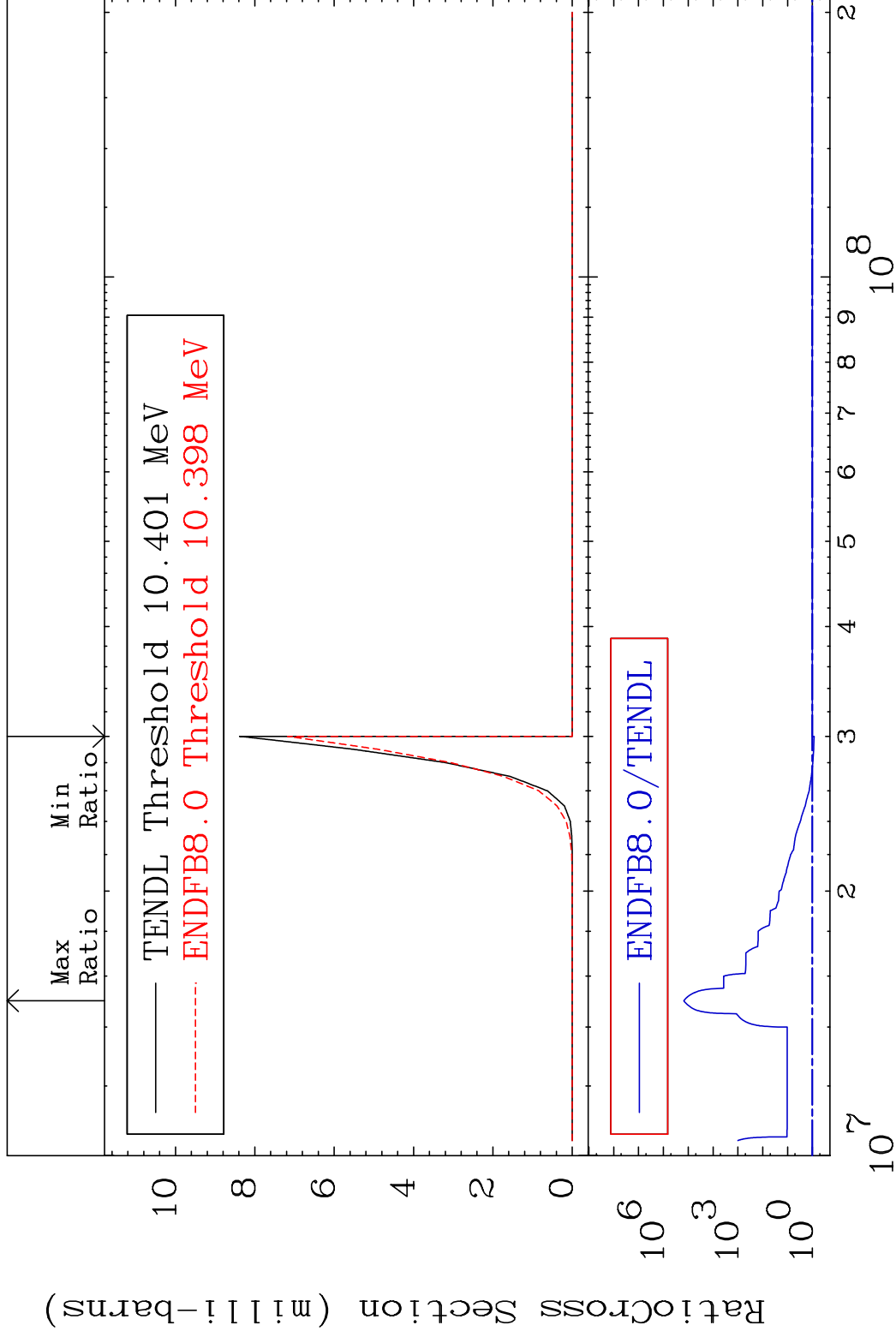
61-Pm-143

MAT 6137

(n,2n) α

61-Pm-143

Cross Section -14.41 To 9999. %



8

Incident Energy (eV)

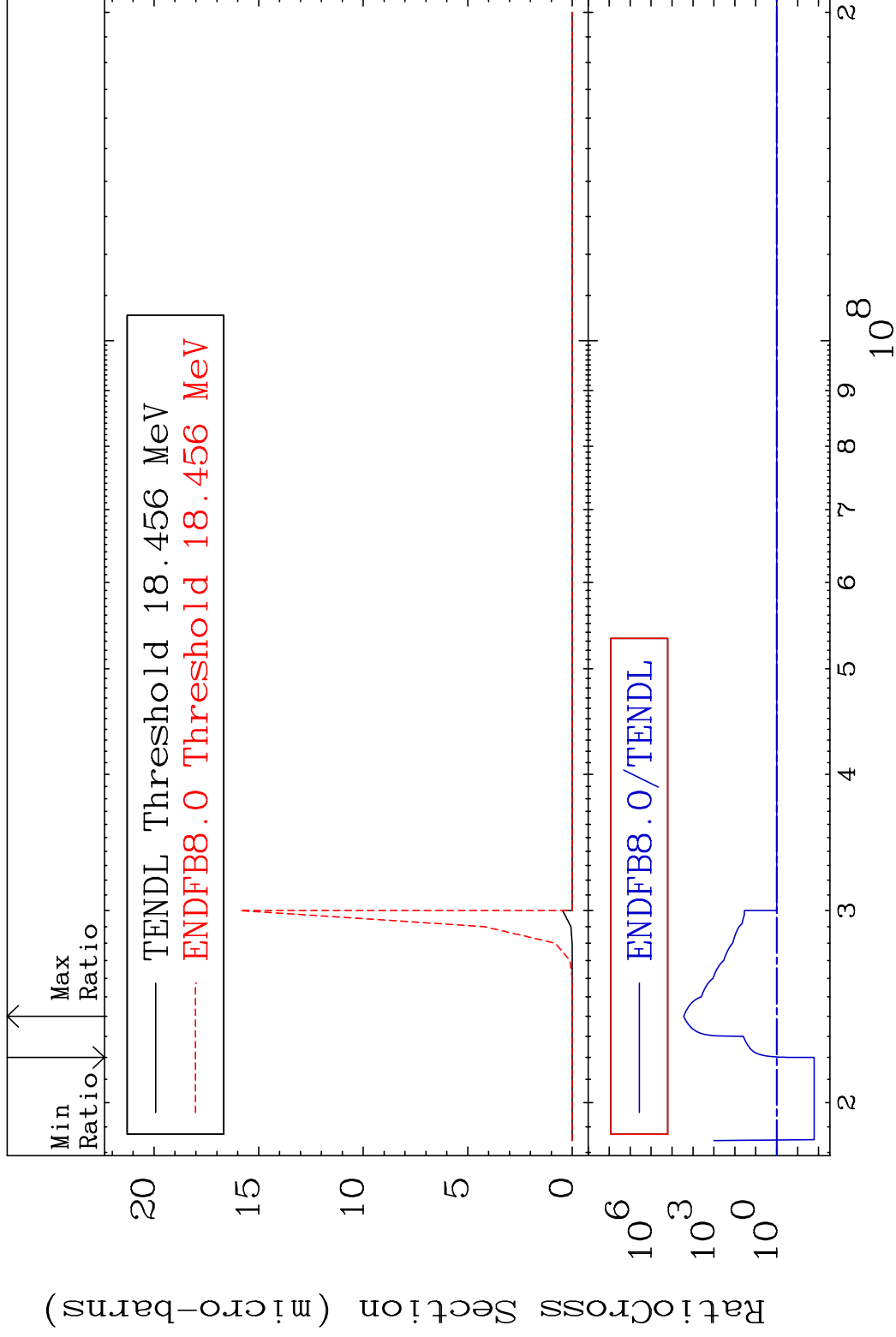
61-Pm-143

MAT 6137

(n,3n) α

61-Pm-143

Cross Section -98.37 To 9999. %

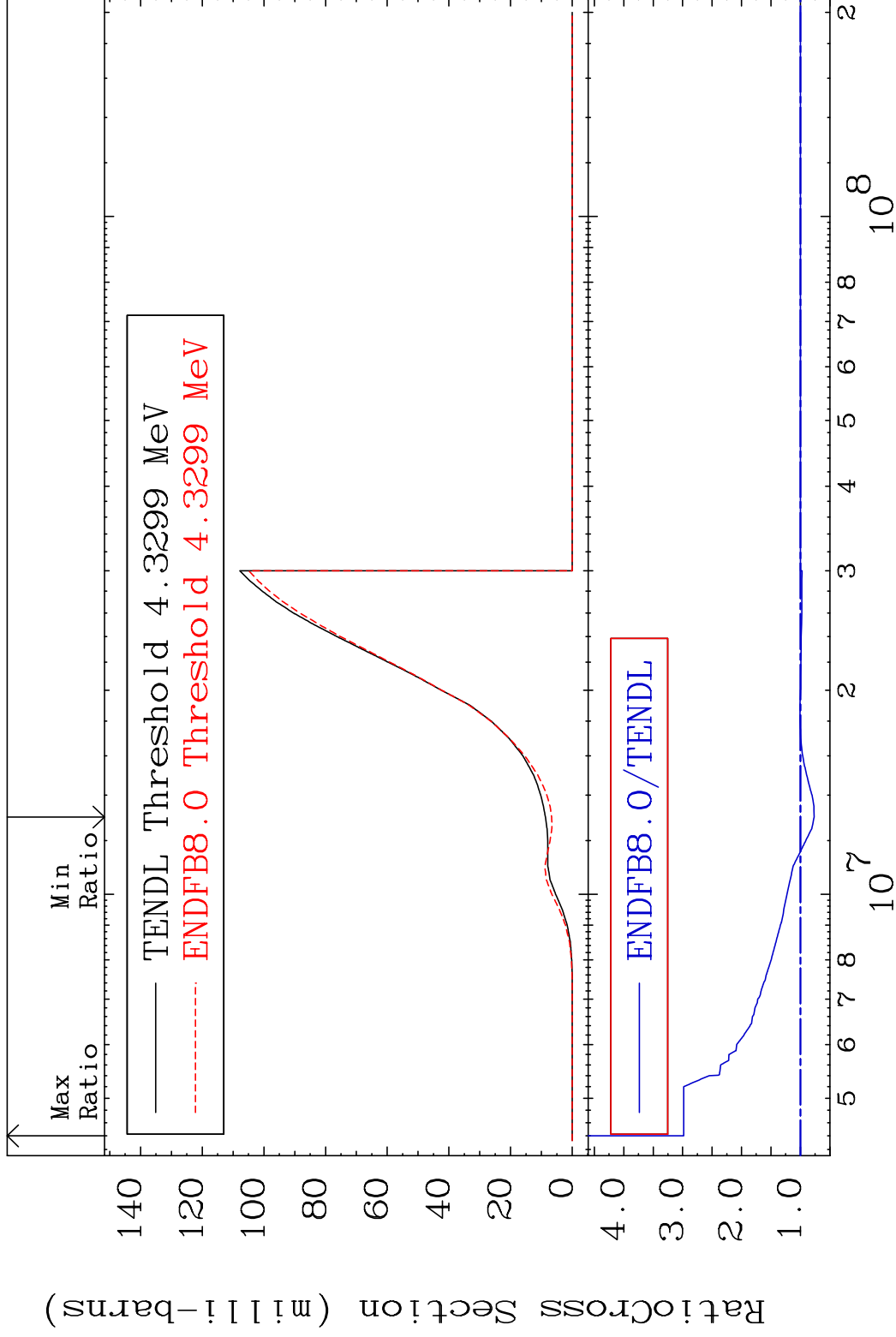


MAT 6137

(n, n') p

61-Pm-143

Cross Section -23.32 To 198.3 %



10

Incident Energy (eV)

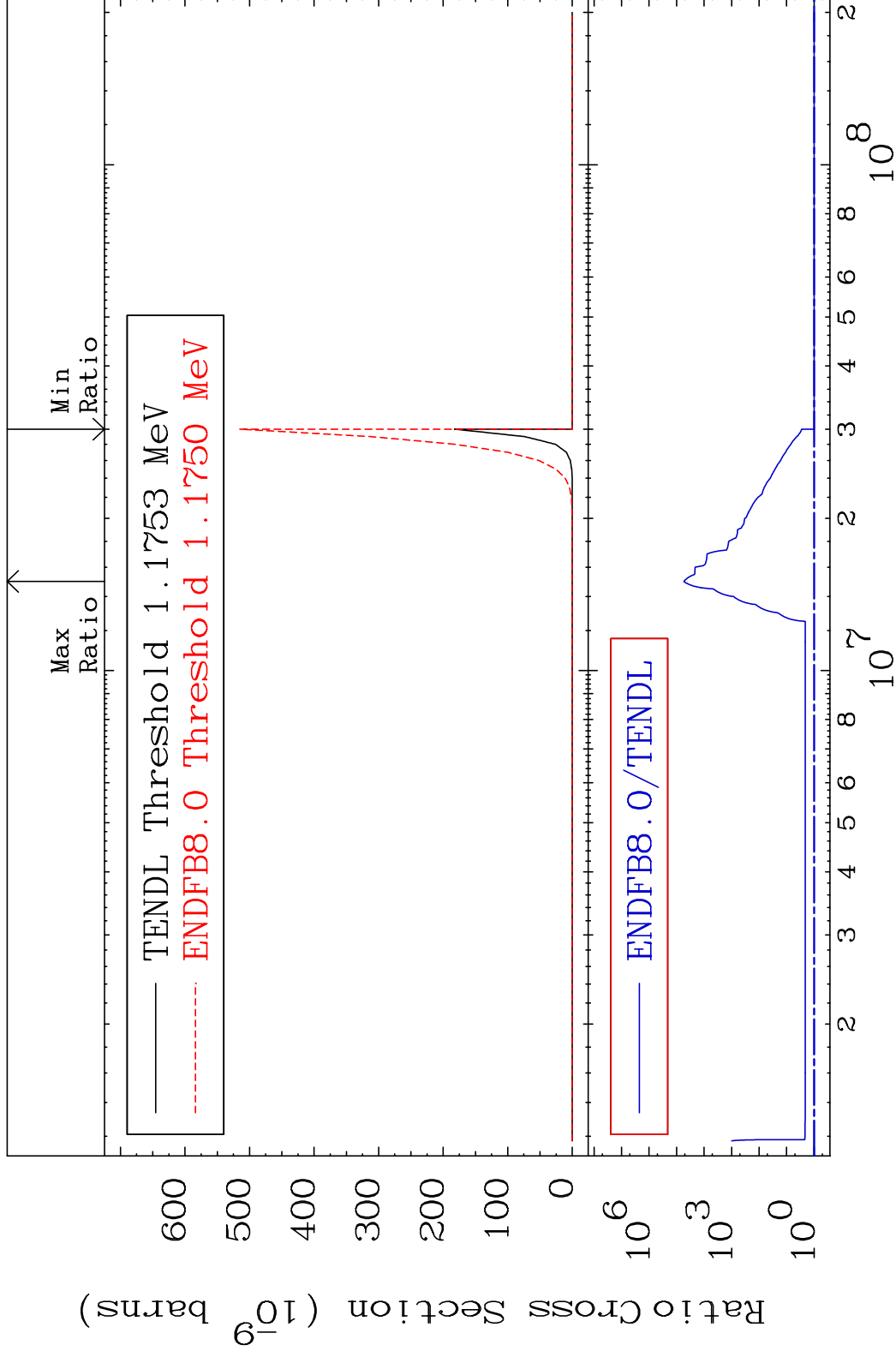
61-Pm-143

MAT 6137

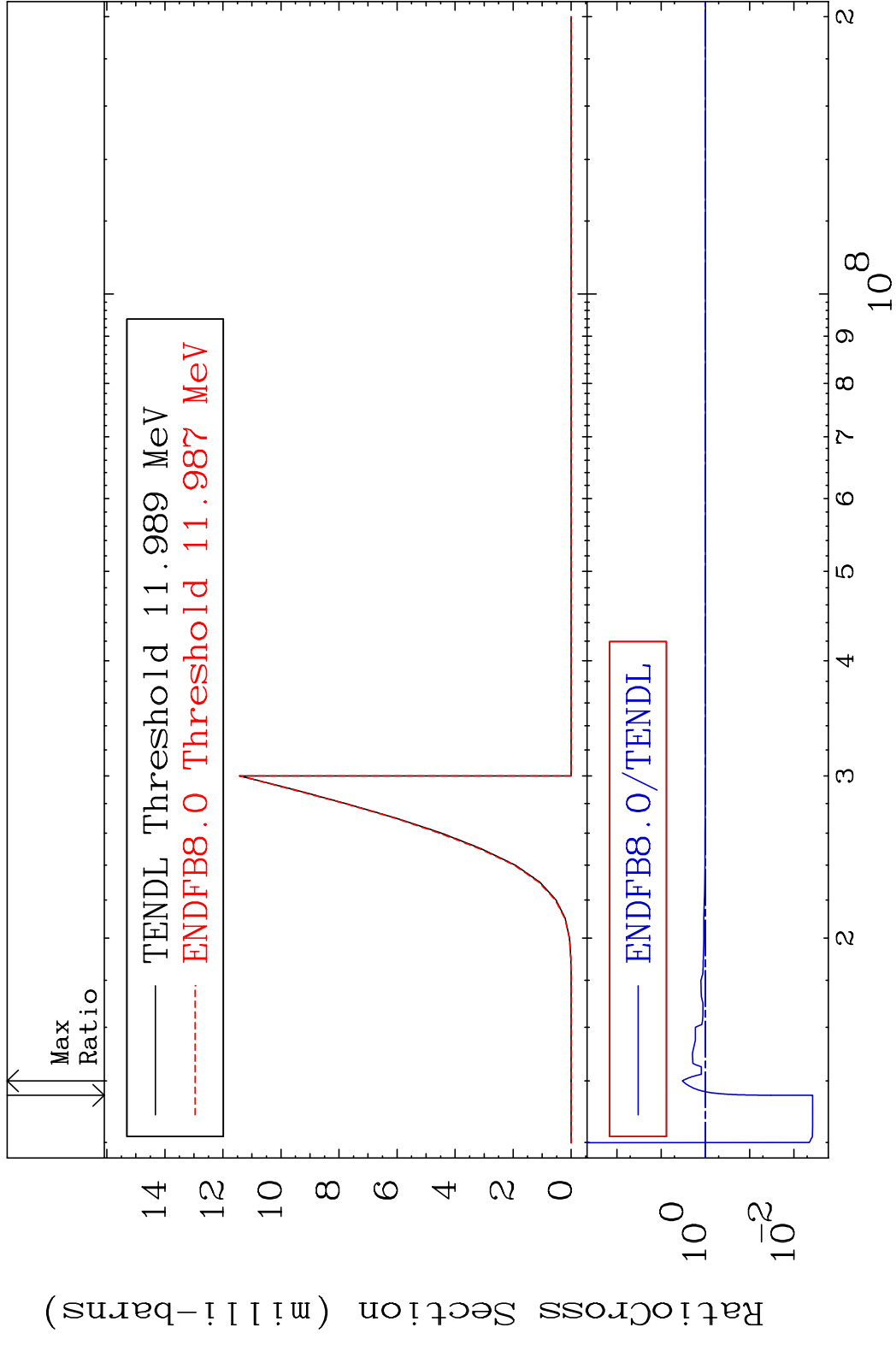
(n, n') 2 α

61-Pm-143

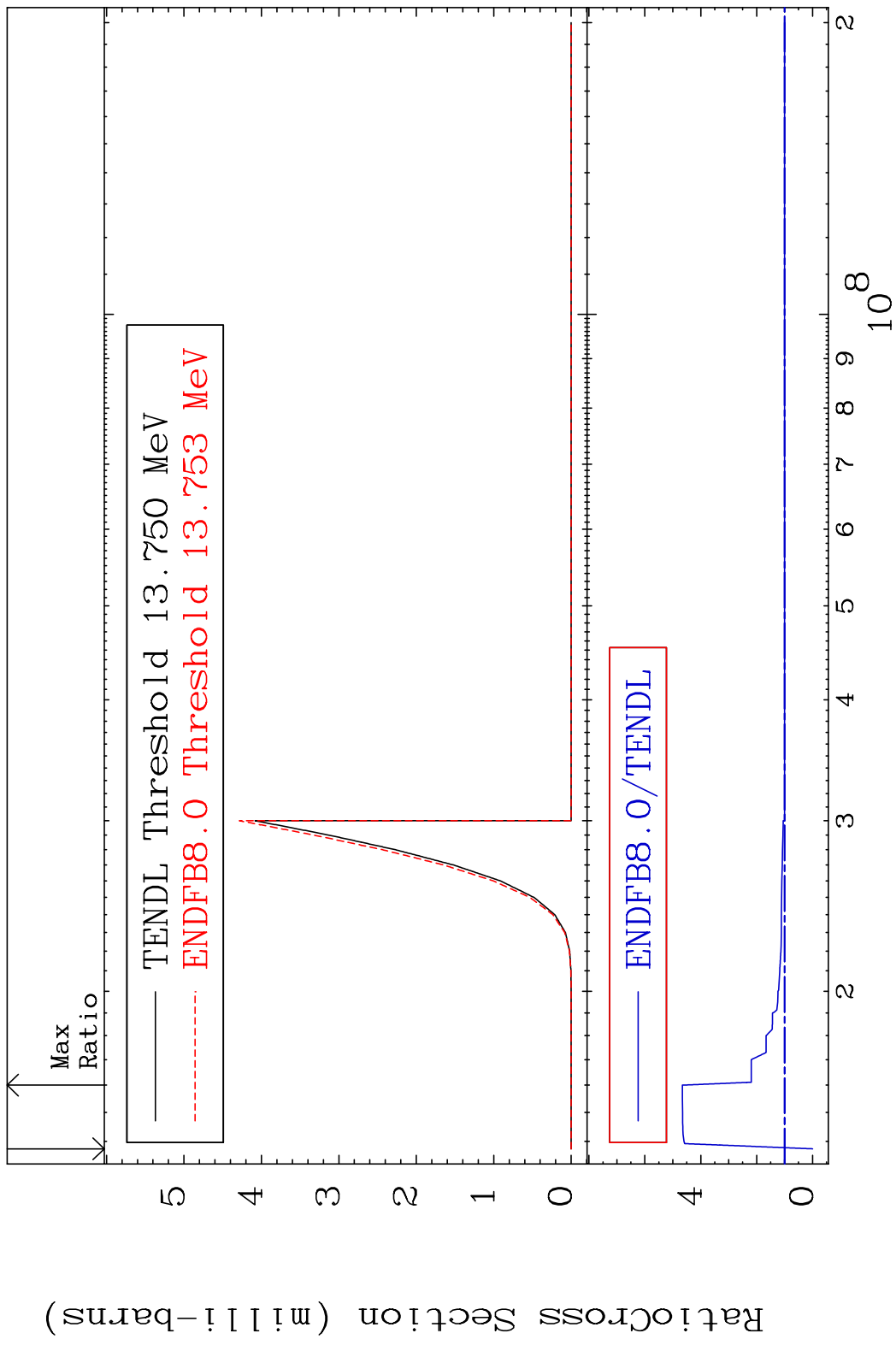
Cross Section 0.000 To 9999. %



MAT 6137 (n, n') d 61-Pm-143
 Cross Section -99.62 To 231.1 %



MAT 6137 (n, n') t 61-Pm-143
 Cross Section -100.0 To 365.8 %

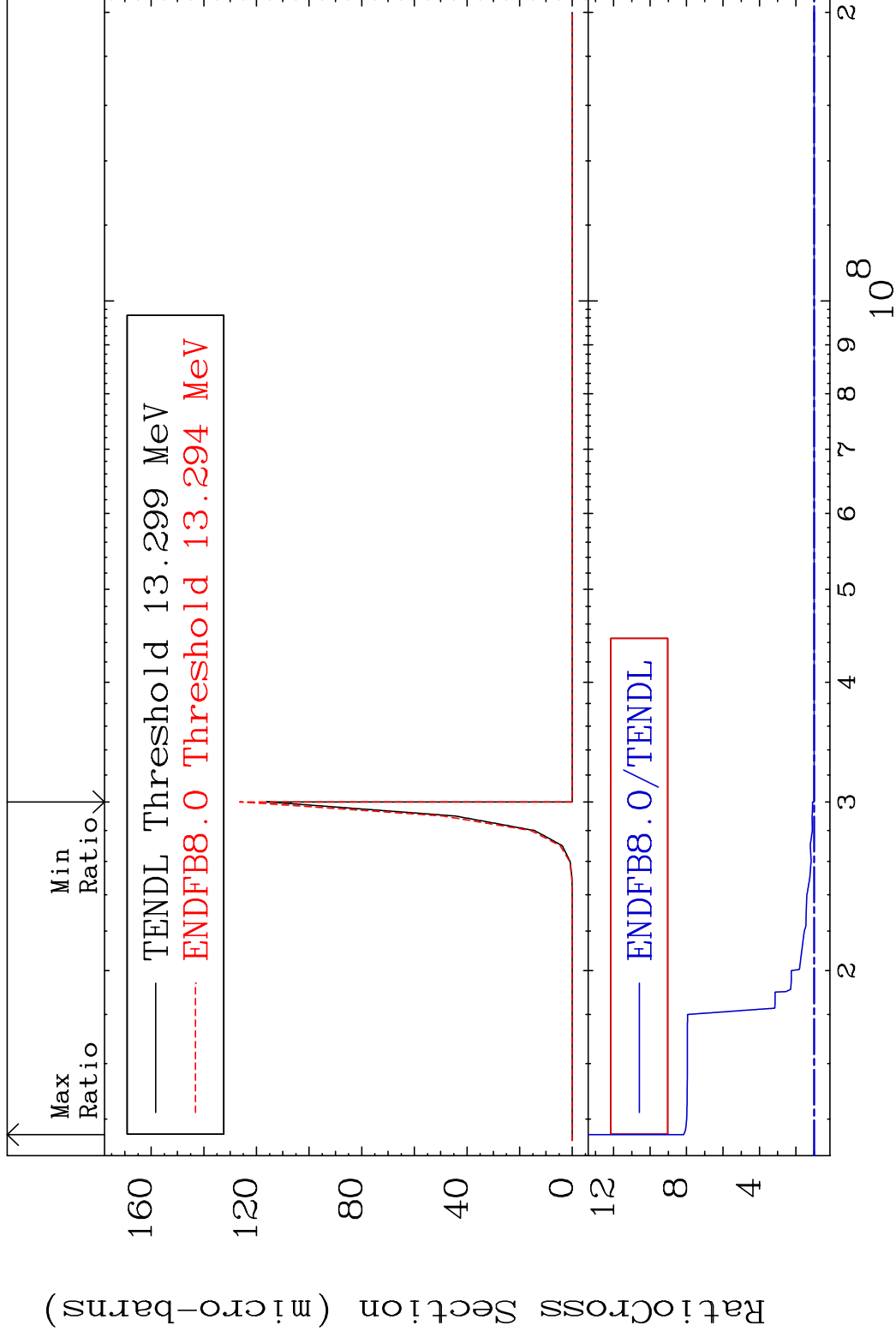


MAT 6137

(n,n') He-3

61-Pm-143

Cross Section 0.000 To 715.8 %



14

Incident Energy (eV)

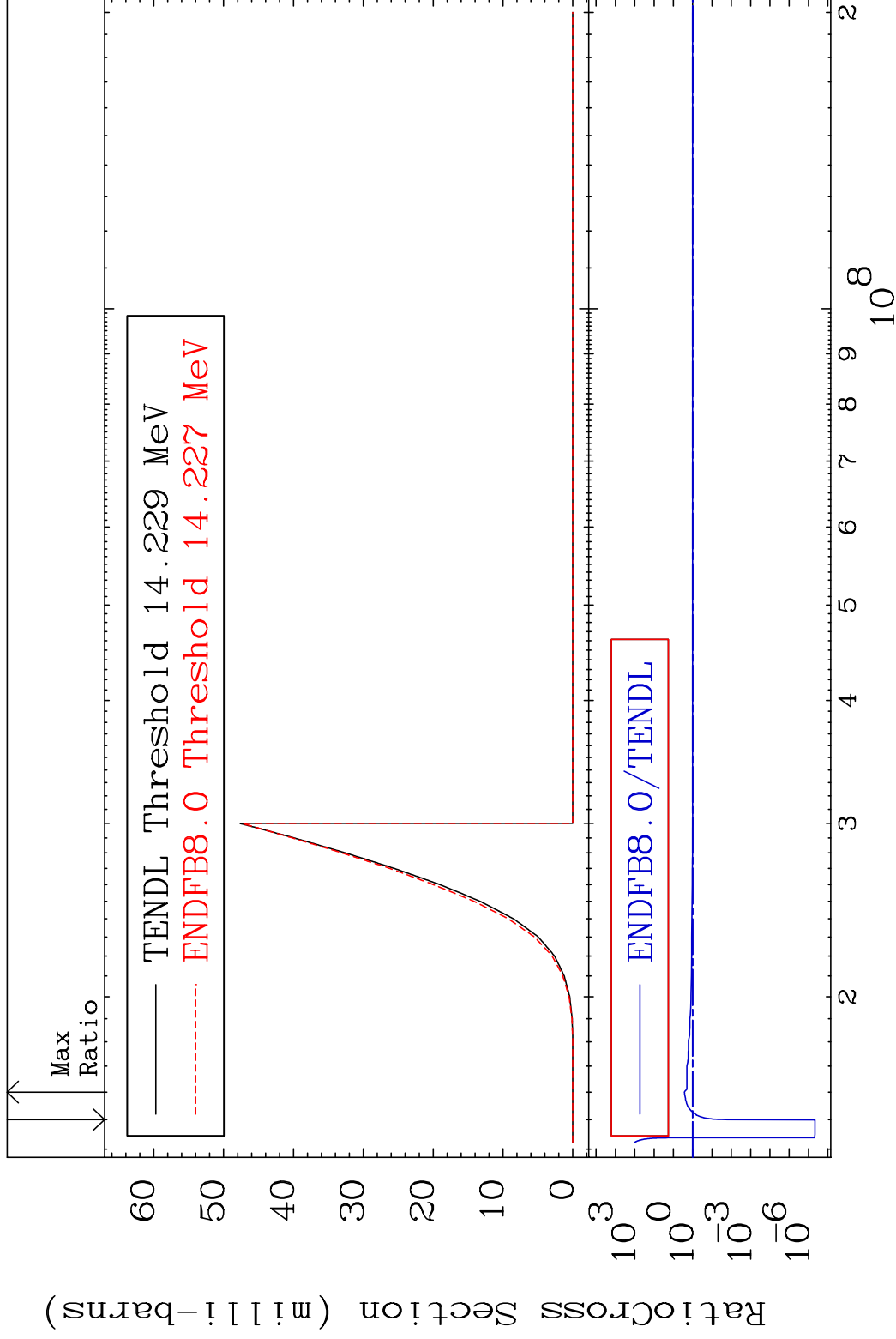
61-Pm-143

MAT 6137

(n,2n) p

61-Pm-143

Cross Section -100.0 To 170.7 %

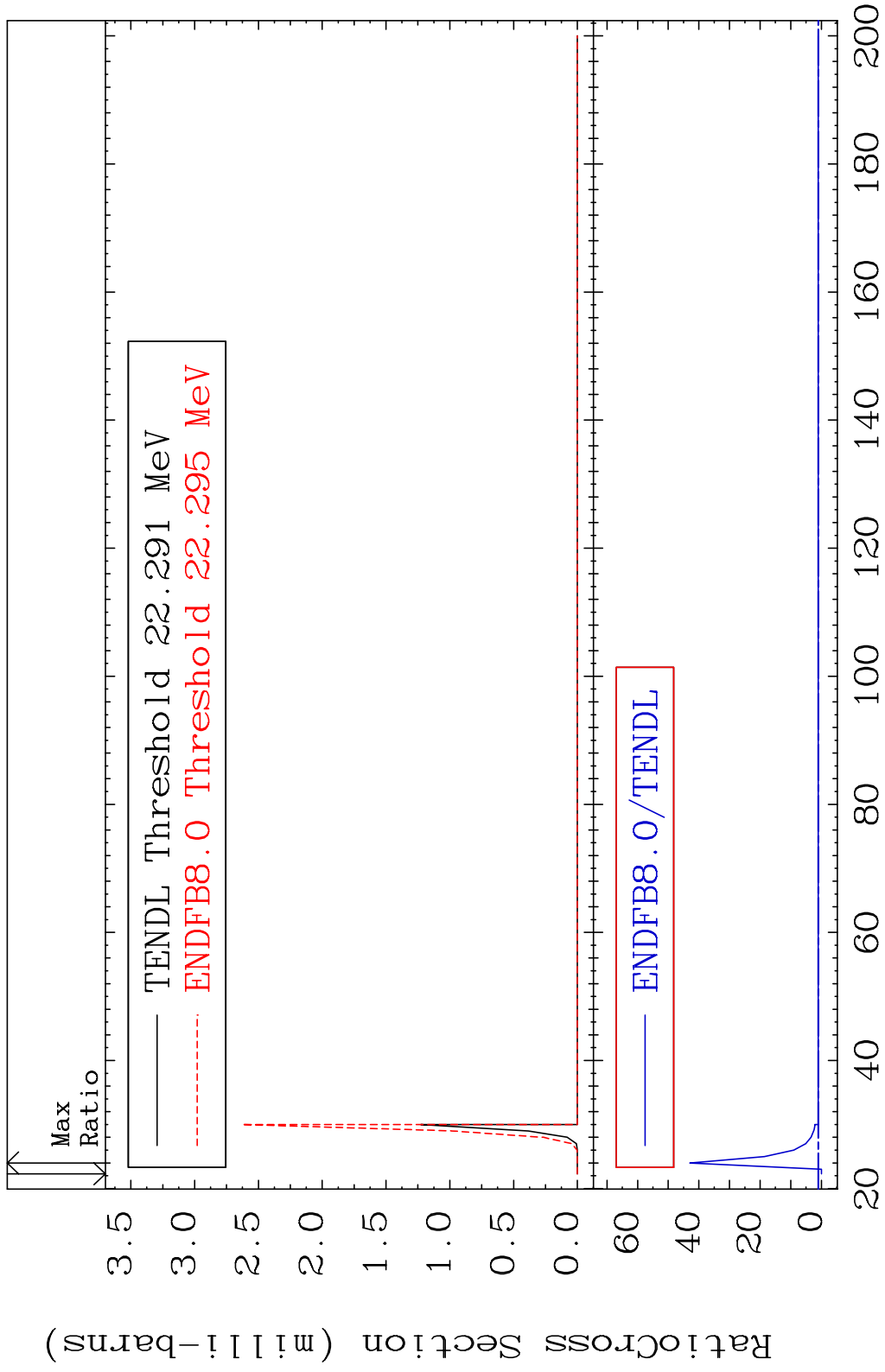


MAT 6137

(n,3n) p

61-Pm-143

Cross Section -100.0 To 4197. %

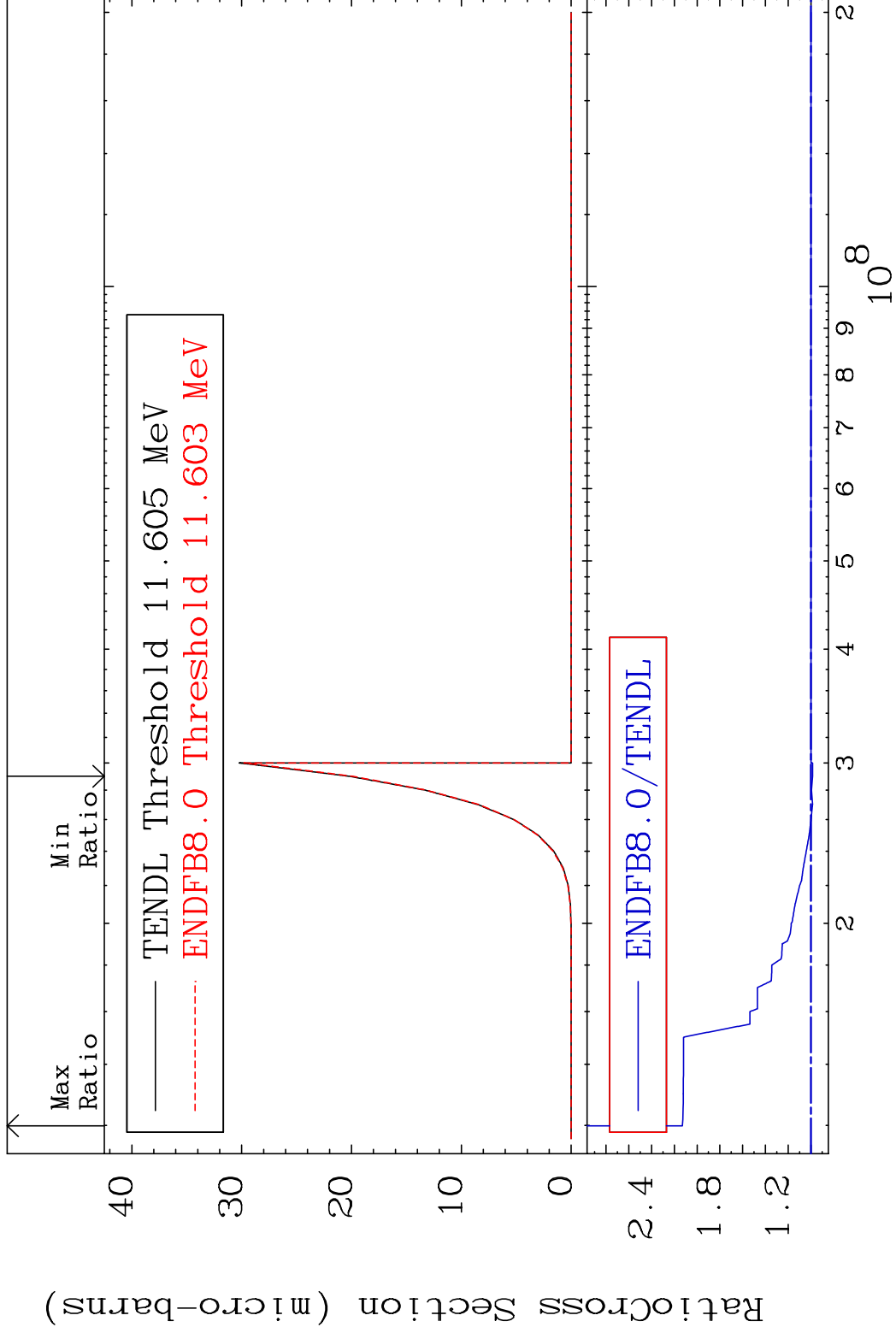


MAT 6137

(n,2n) p

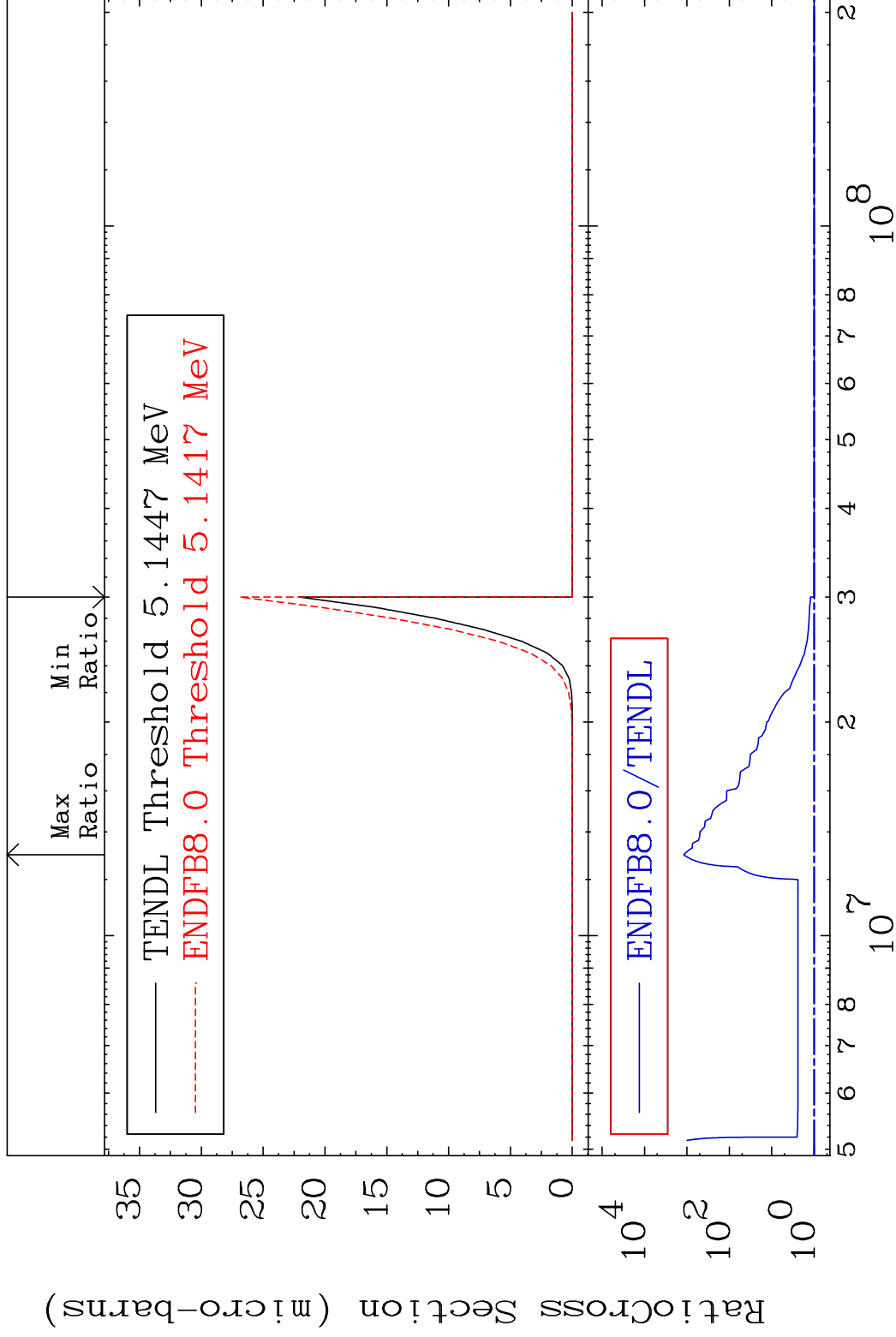
61-Pm-143

Cross Section -1.451 To 113.0 %



MAT 6137

(n,n') p α 61-Pm-143
Cross Section 0.000 To 9999. %

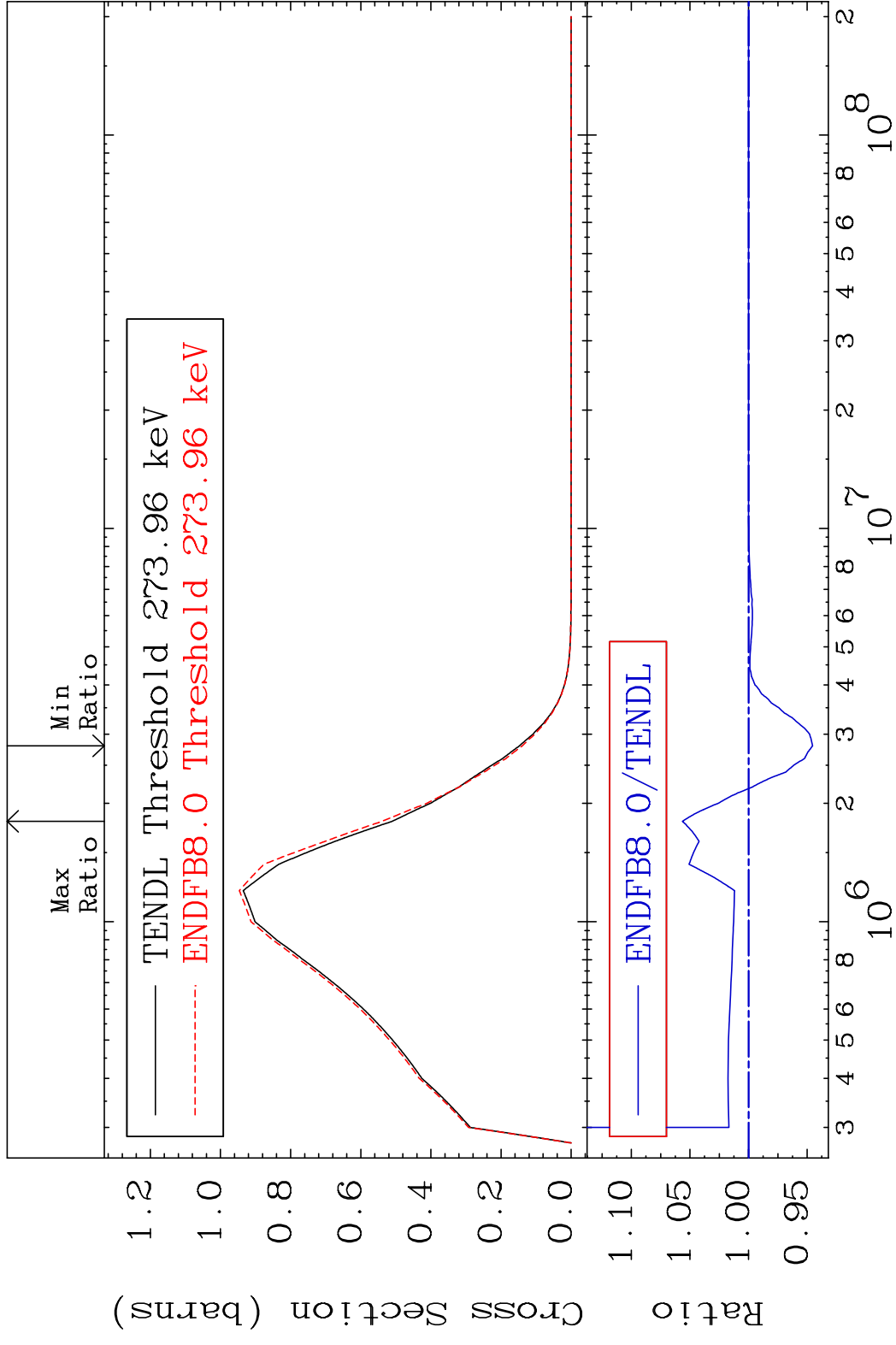


18

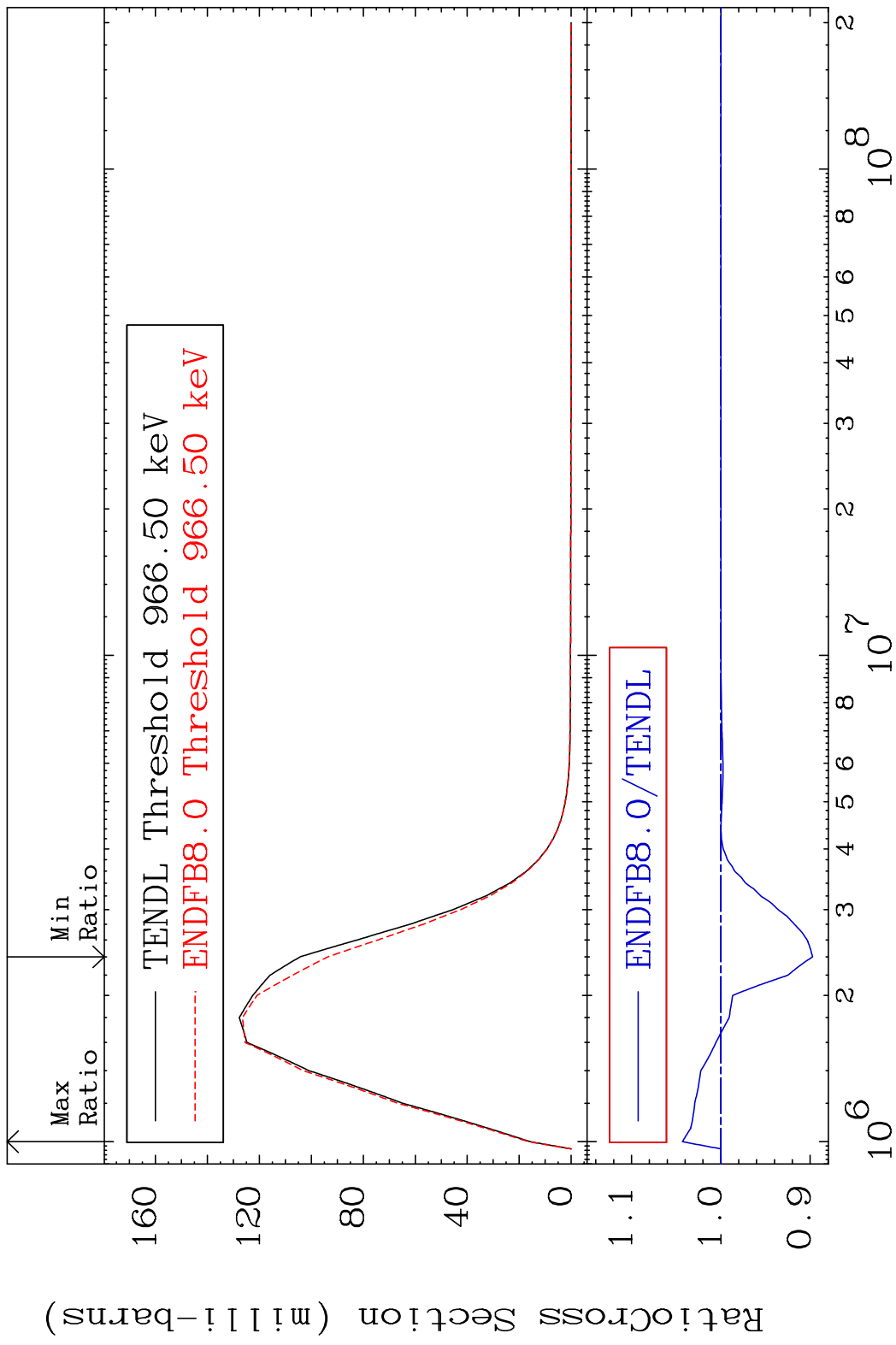
Incident Energy (eV)

61-Pm-143

MAT 6137 MT= 51 (n,n') Level 61-Pm-143
 Cross Section -5.462 To 5.646 %

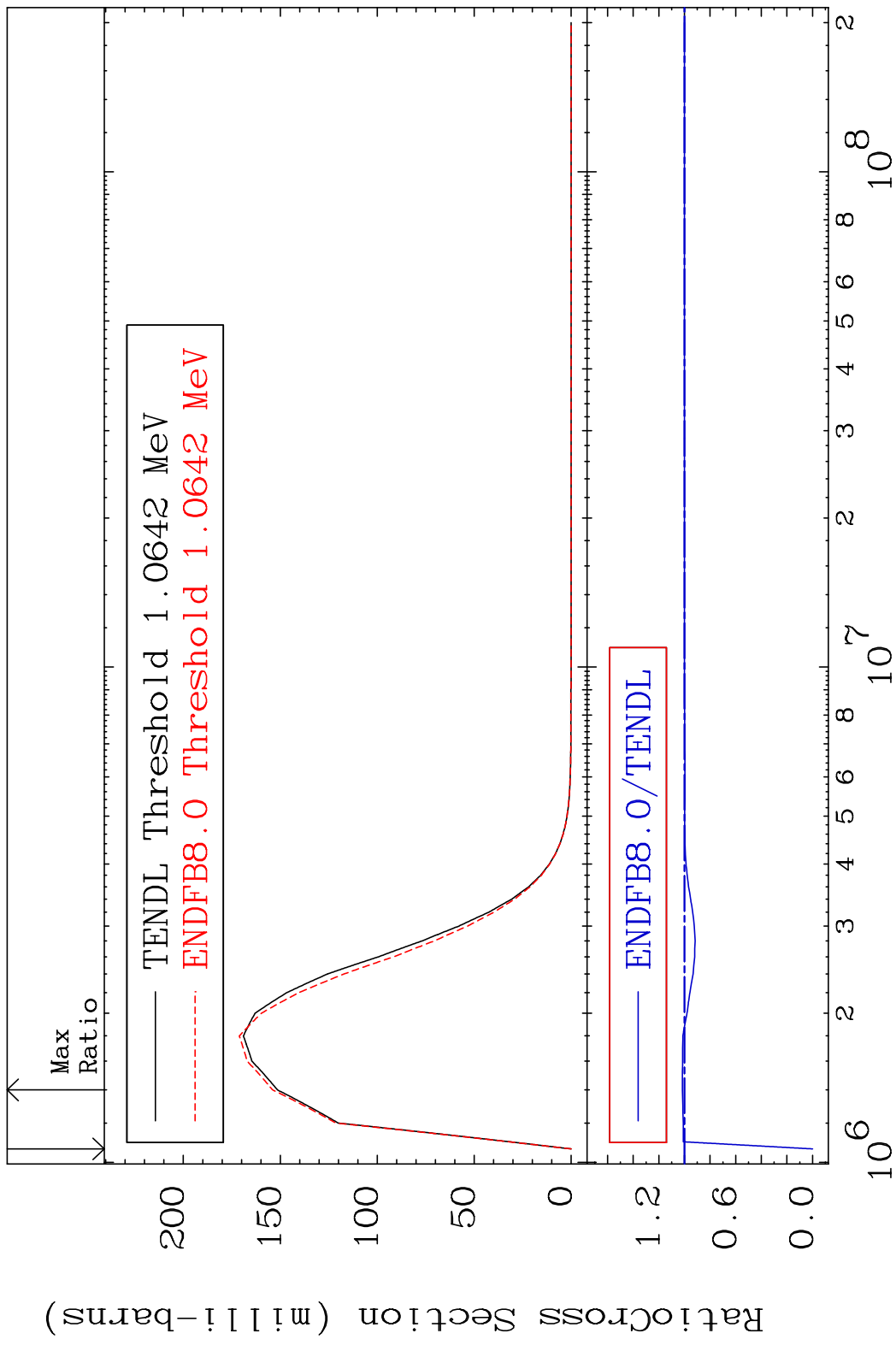


MAT 6137 MT= 52 (n,n') Level 61-Pm-143
 Cross Section -10.27 To 4.309 %

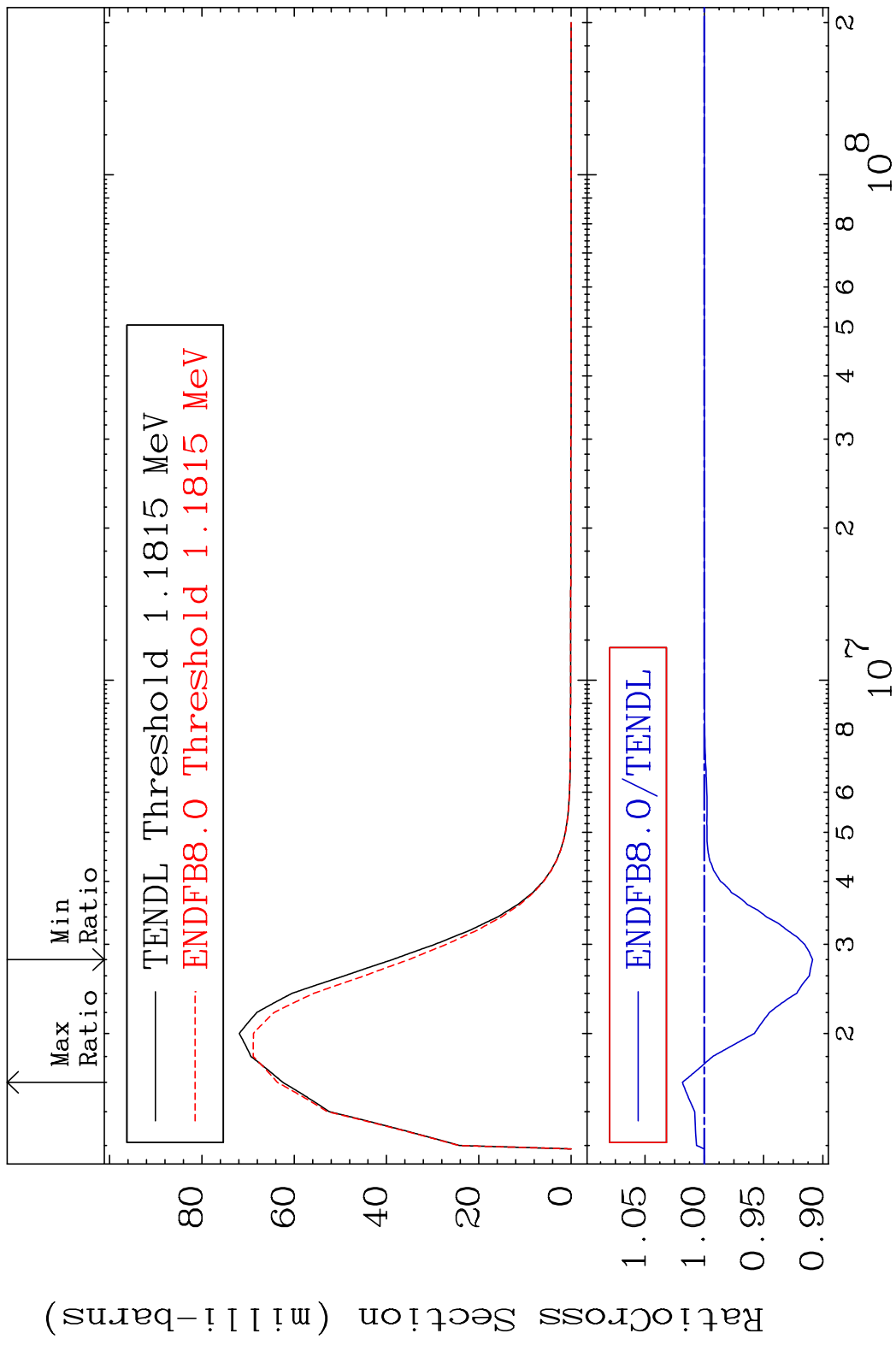


20 10⁶ 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 2 61-Pm-143

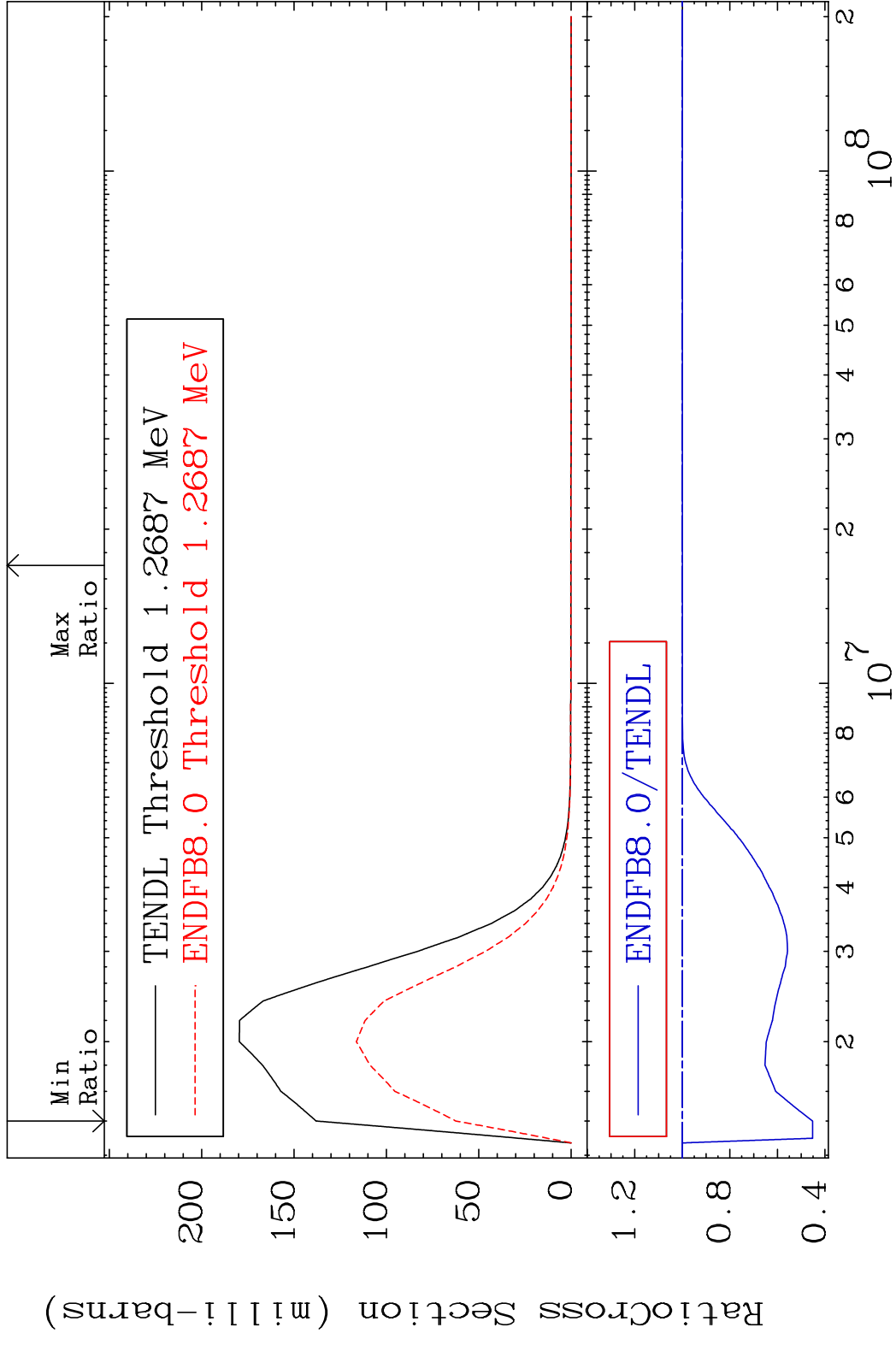
MAT 6137 MT= 53 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 1.647 %



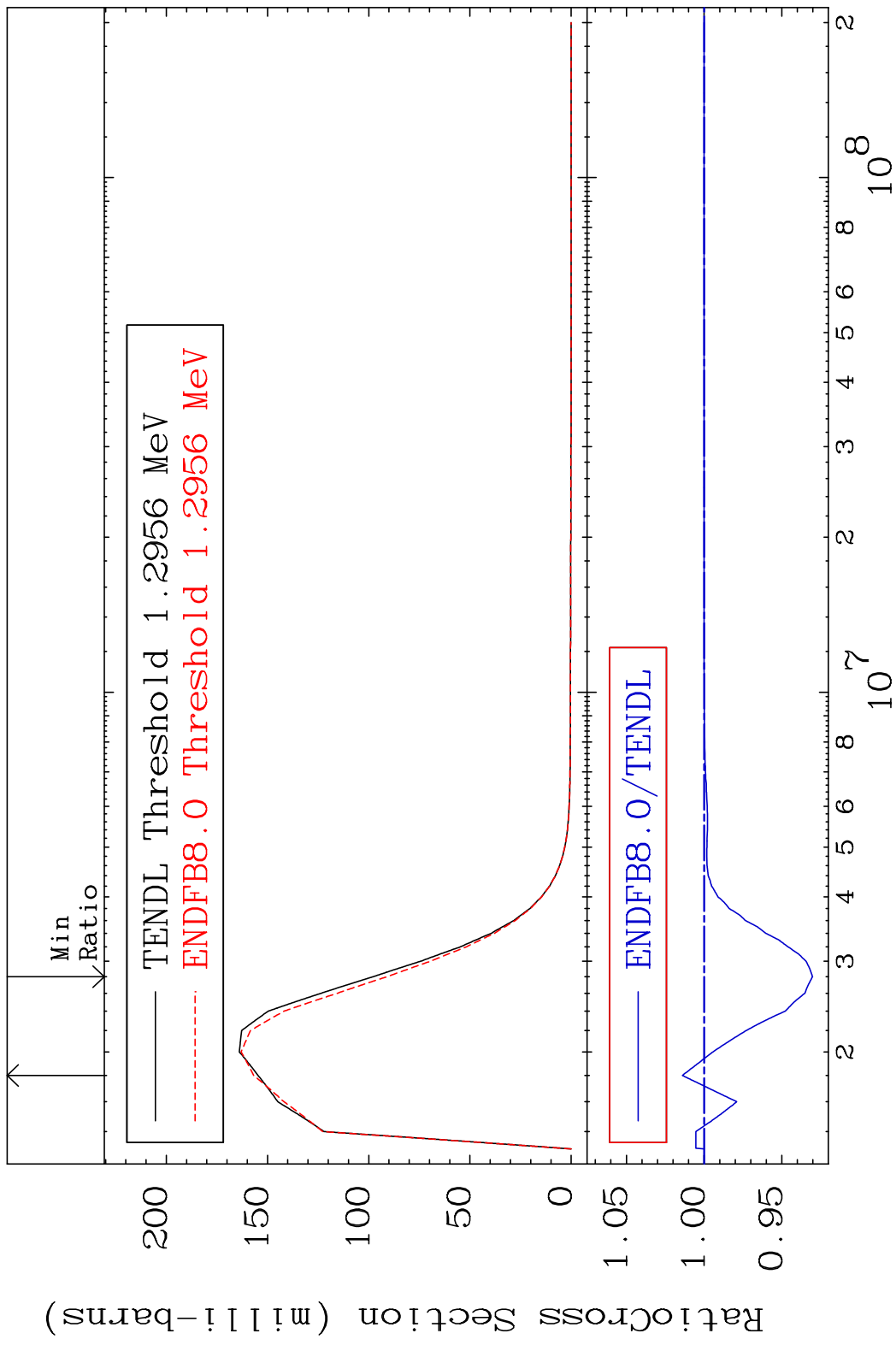
MAT 6137 MT= 54 (n, n') Level 61-Pm-143
 Cross Section -9.134 To 1.848 %



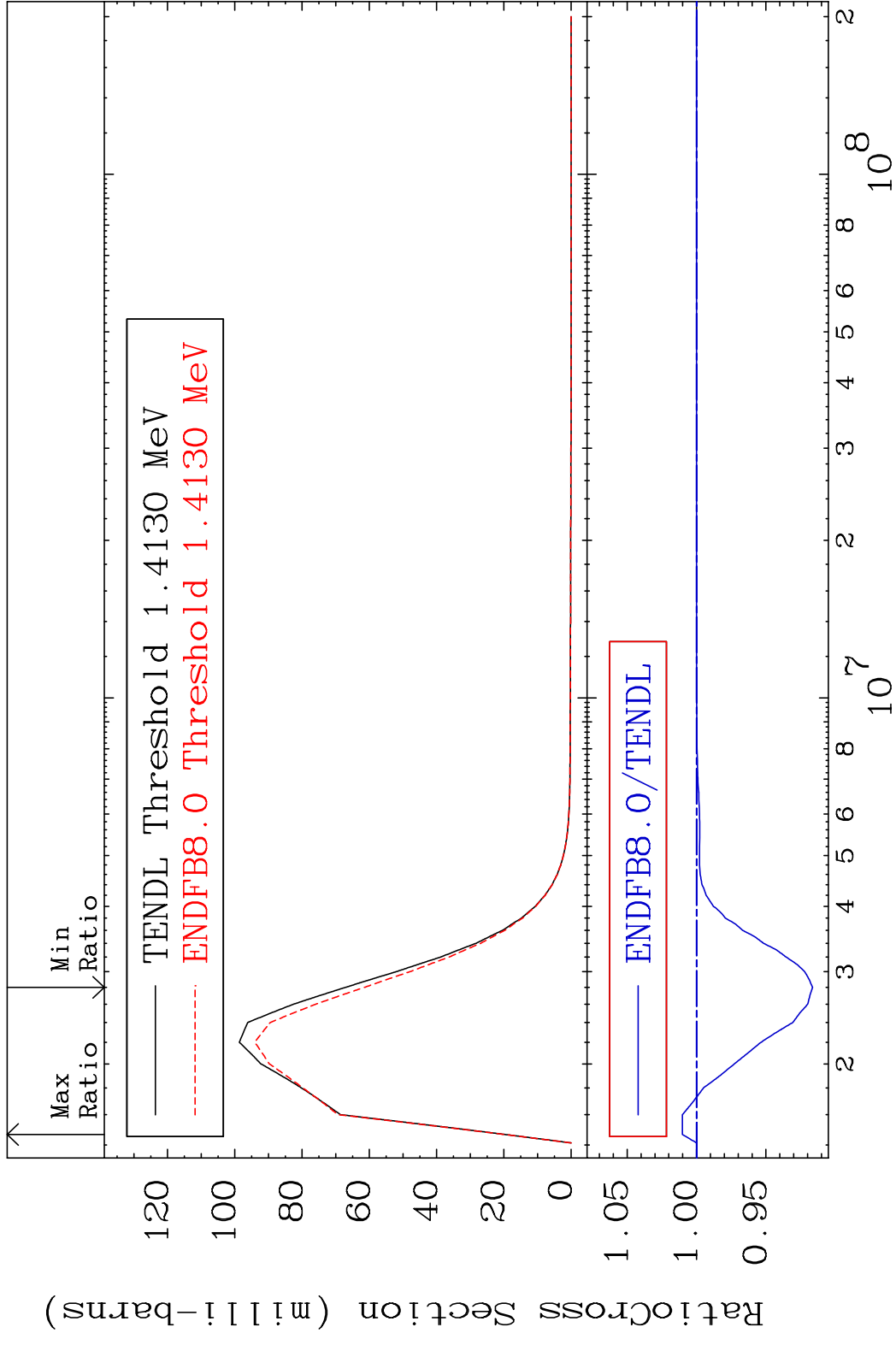
MAT 6137 MT= 55 (n, n') Level 61-Pm-143
 Cross Section -54.77 To 0.000 %



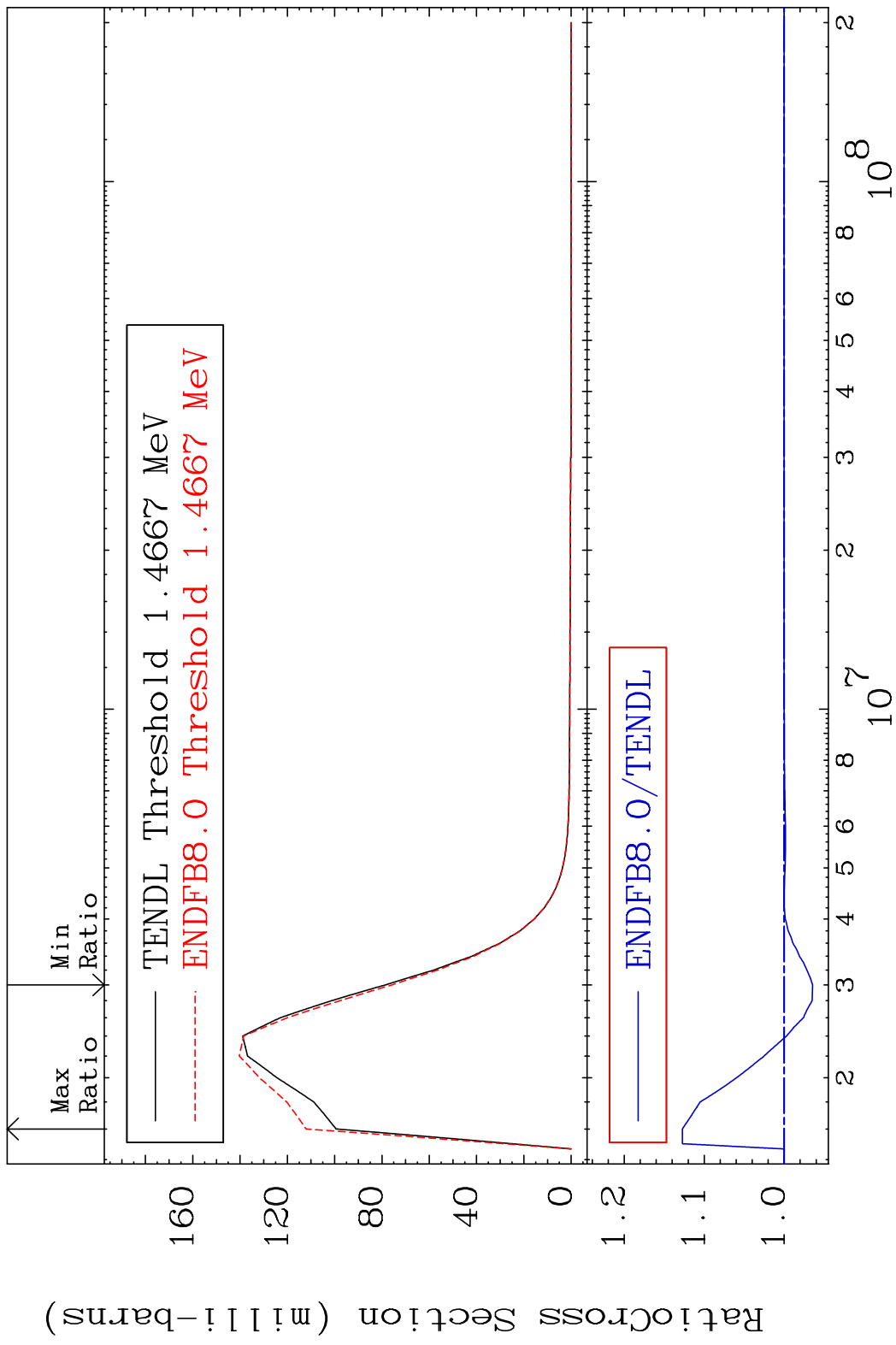
MAT 6137 MT= 56 (n, n') Level 61-Pm-143
 Cross Section -6.976 To 1.402 %



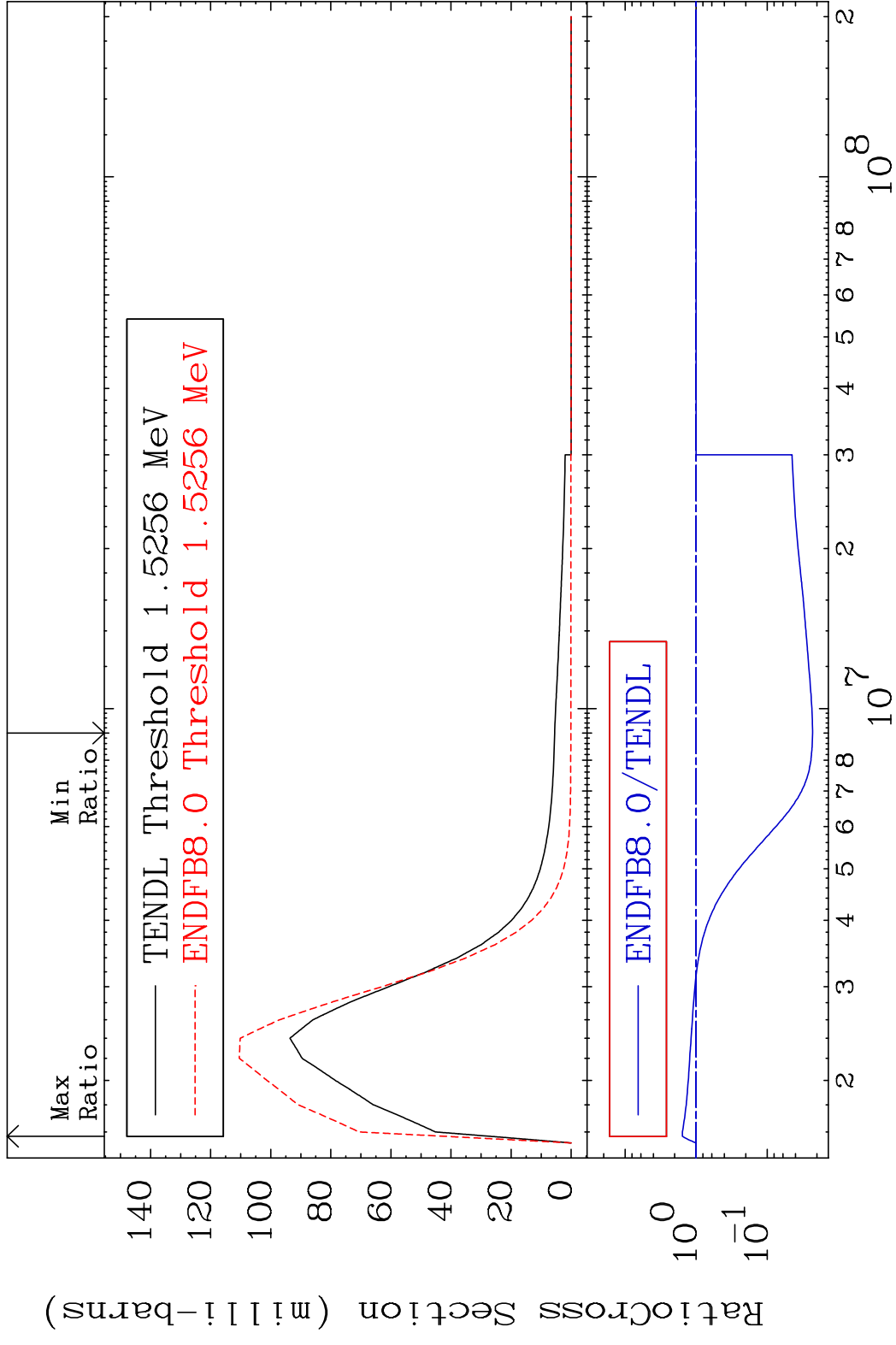
MAT 6137 MT= 57 (n,n') Level 61-Pm-143
 Cross Section -8.359 To 1.023 %



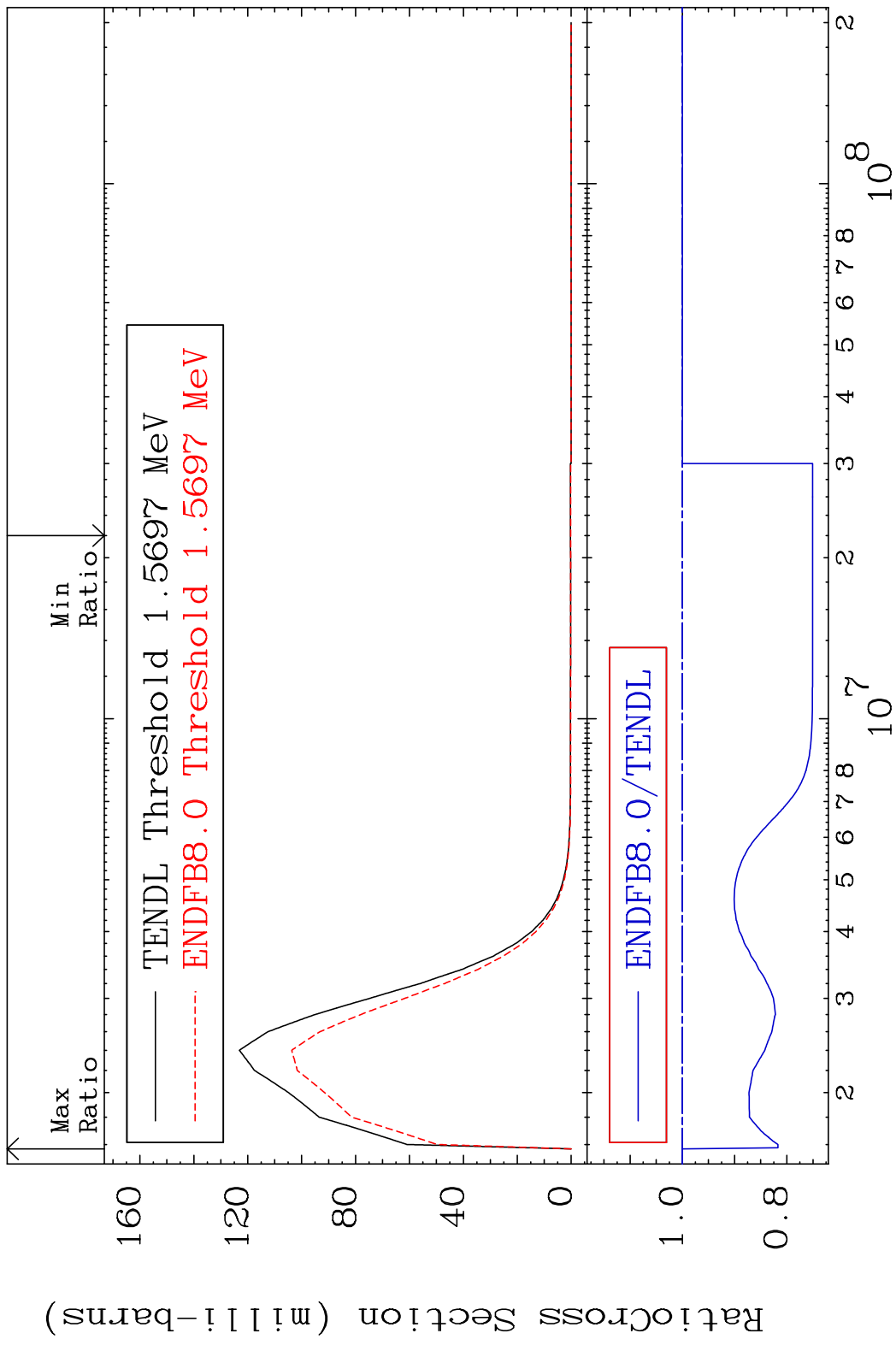
MAT 6137 MT= 58 (n,n') Level 61-Pm-143
 Cross Section -3.548 To 12.73 %



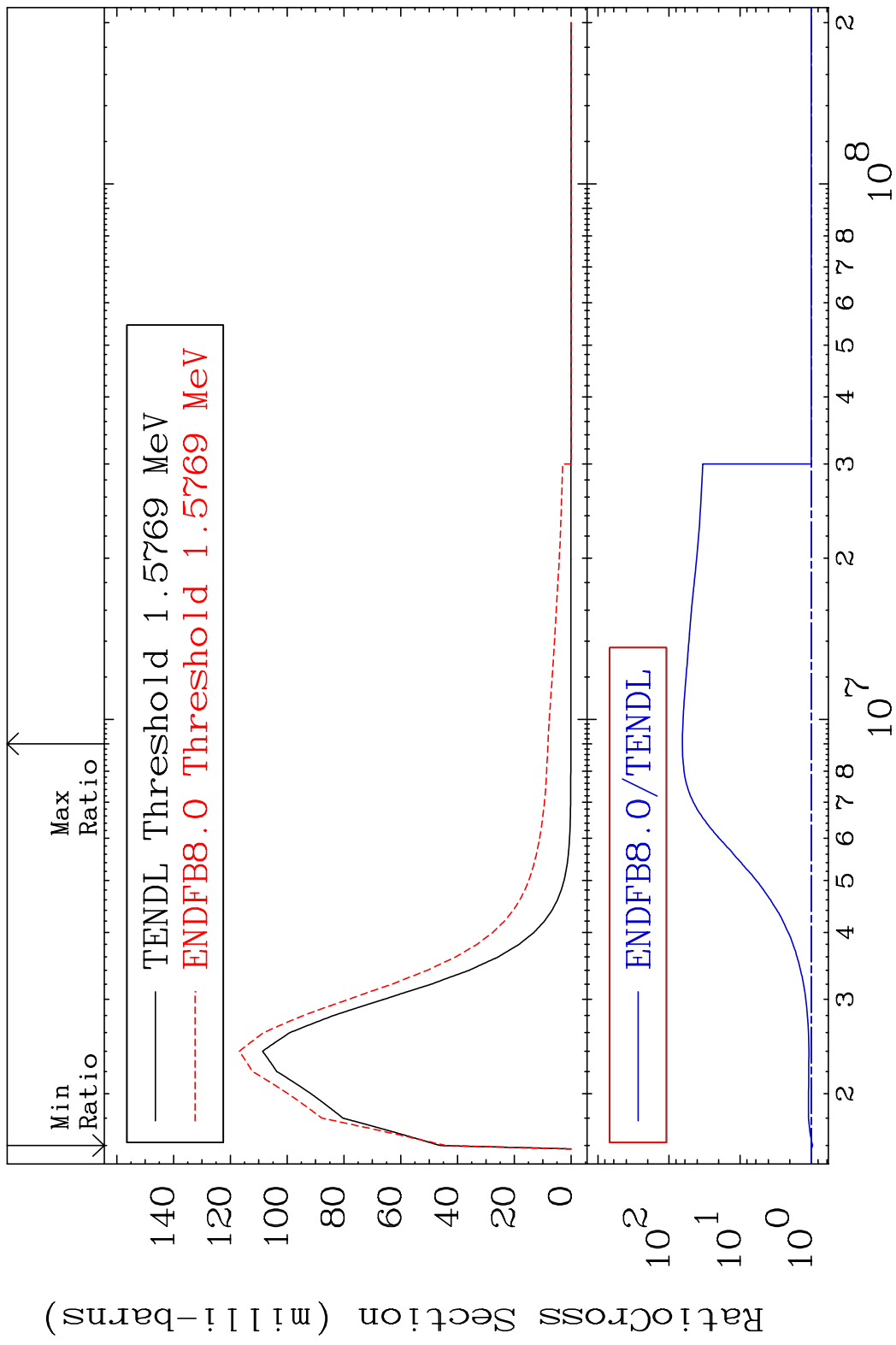
MAT 6137 MT= 59 (n, n') Level 61-Pm-143
 Cross Section -97.70 To 56.26 %



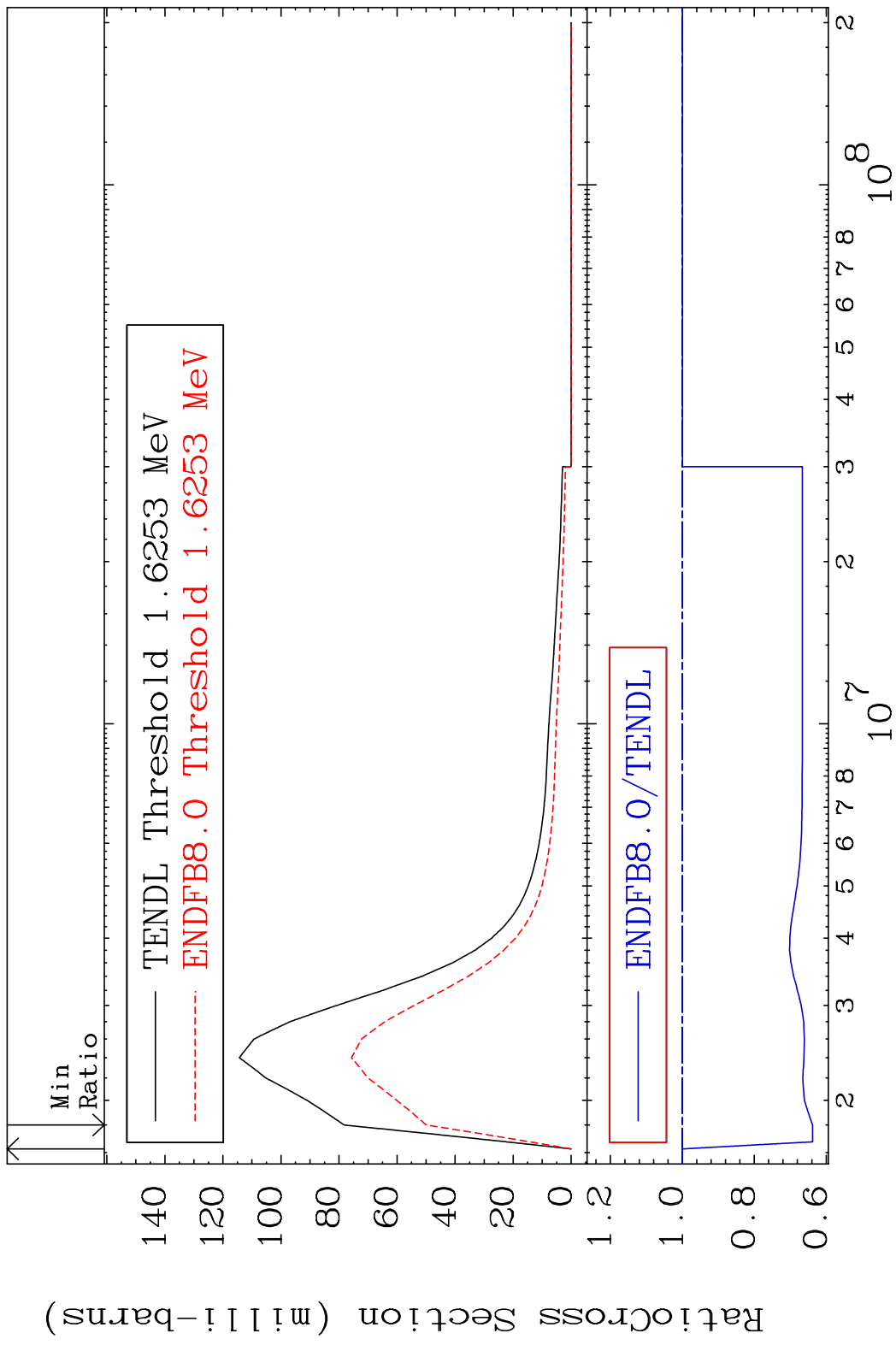
MAT 6137 MT= 60 (n, n') Level 61-Pm-143
 Cross Section -24.92 To 0.000 %



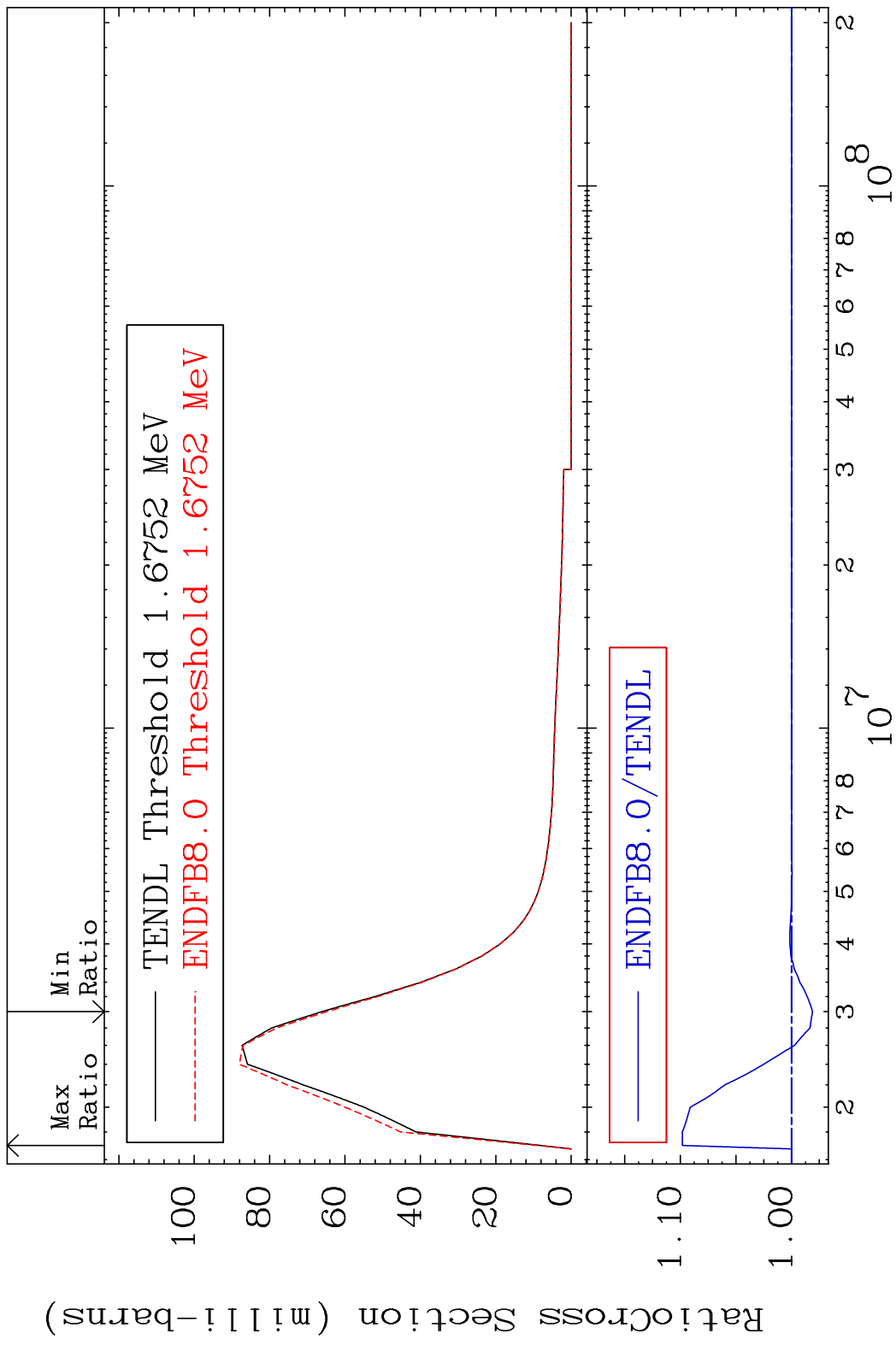
MAT 6137 MT= 61 (n,n') Level 61-Pm-143
 Cross Section -4.360 To 6397. %



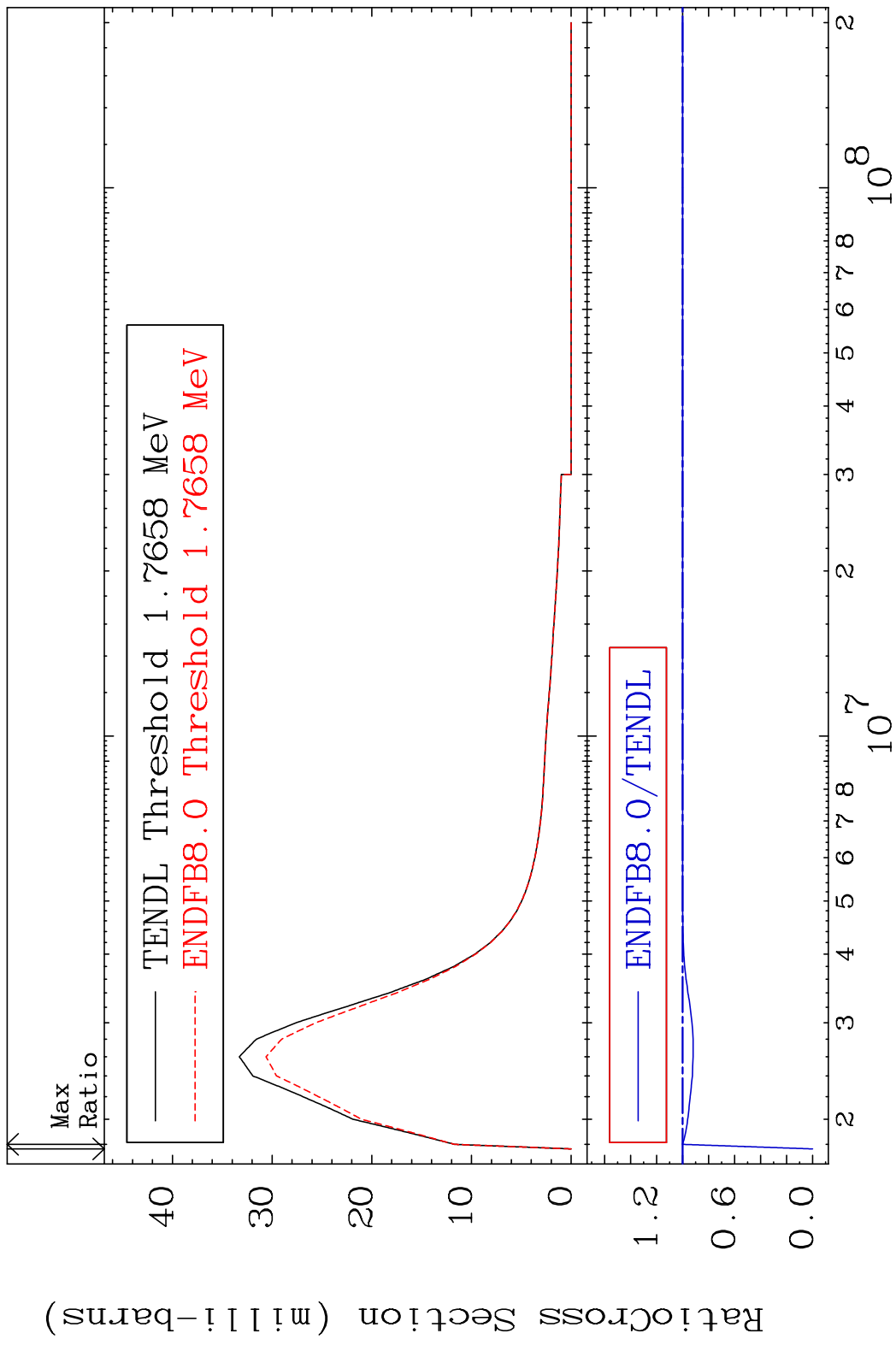
MAT 6137 MT= 63 (n, n') Level 61-Pm-143
 Cross Section -36.20 To 0.000 %



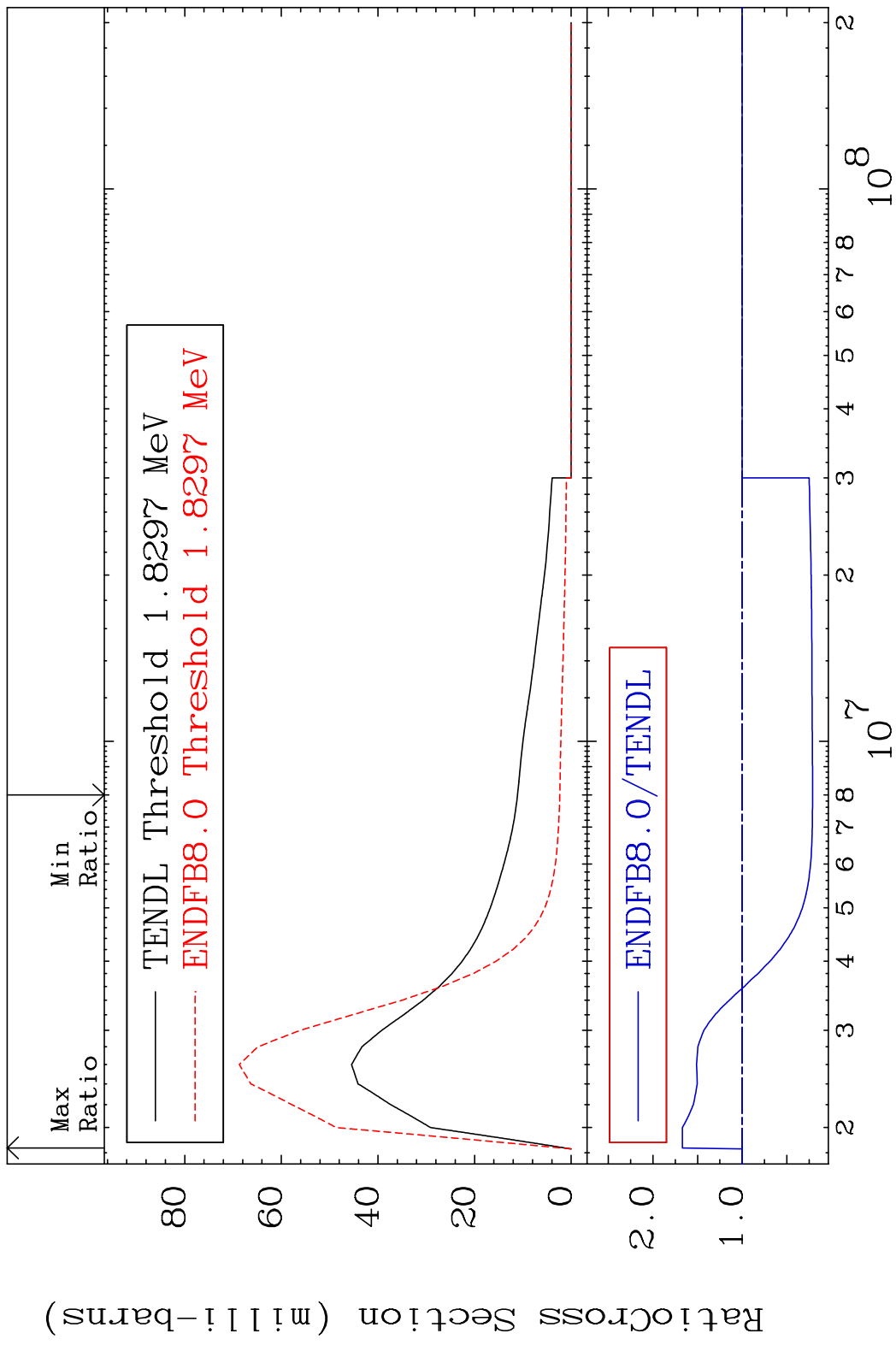
MAT 6137 MT= 64 (n,n') Level 61-Pm-143
 Cross Section -1.891 To 9.820 %



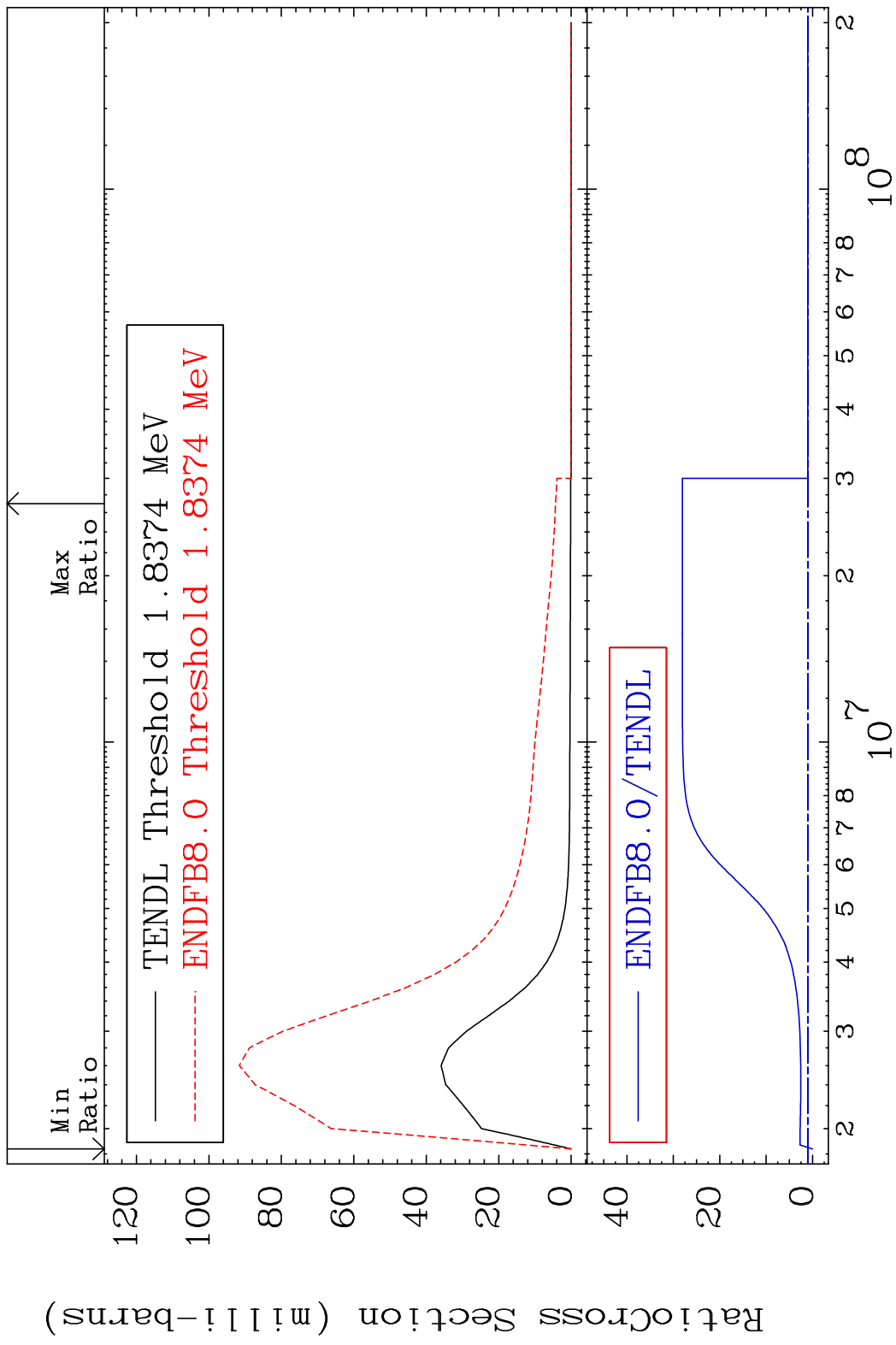
MAT 6137 MT= 65 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 0.213 %



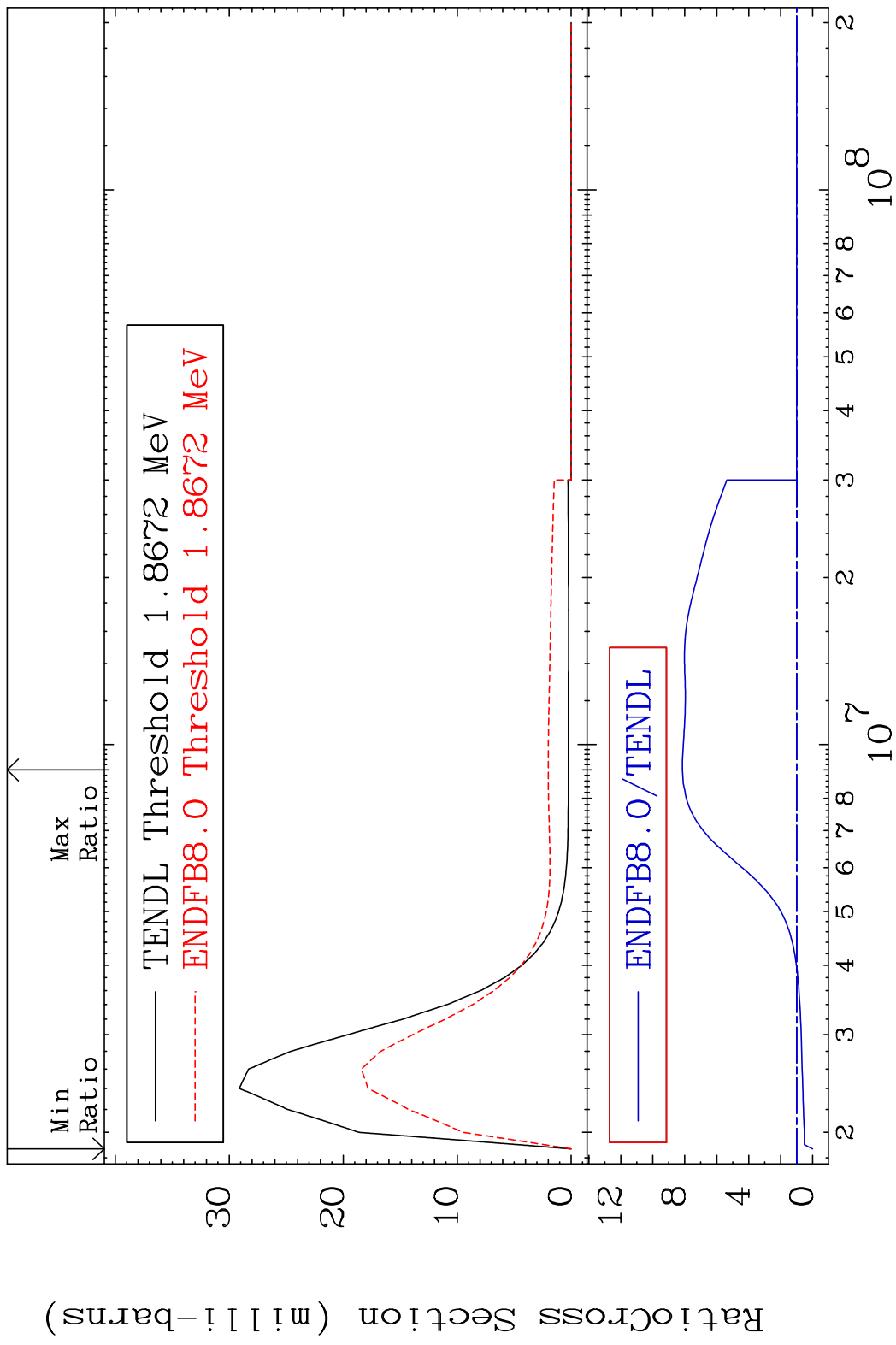
MAT 6137 MT= 66 (n,n') Level 61-Pm-143
 Cross Section -78.71 To 67.02 %



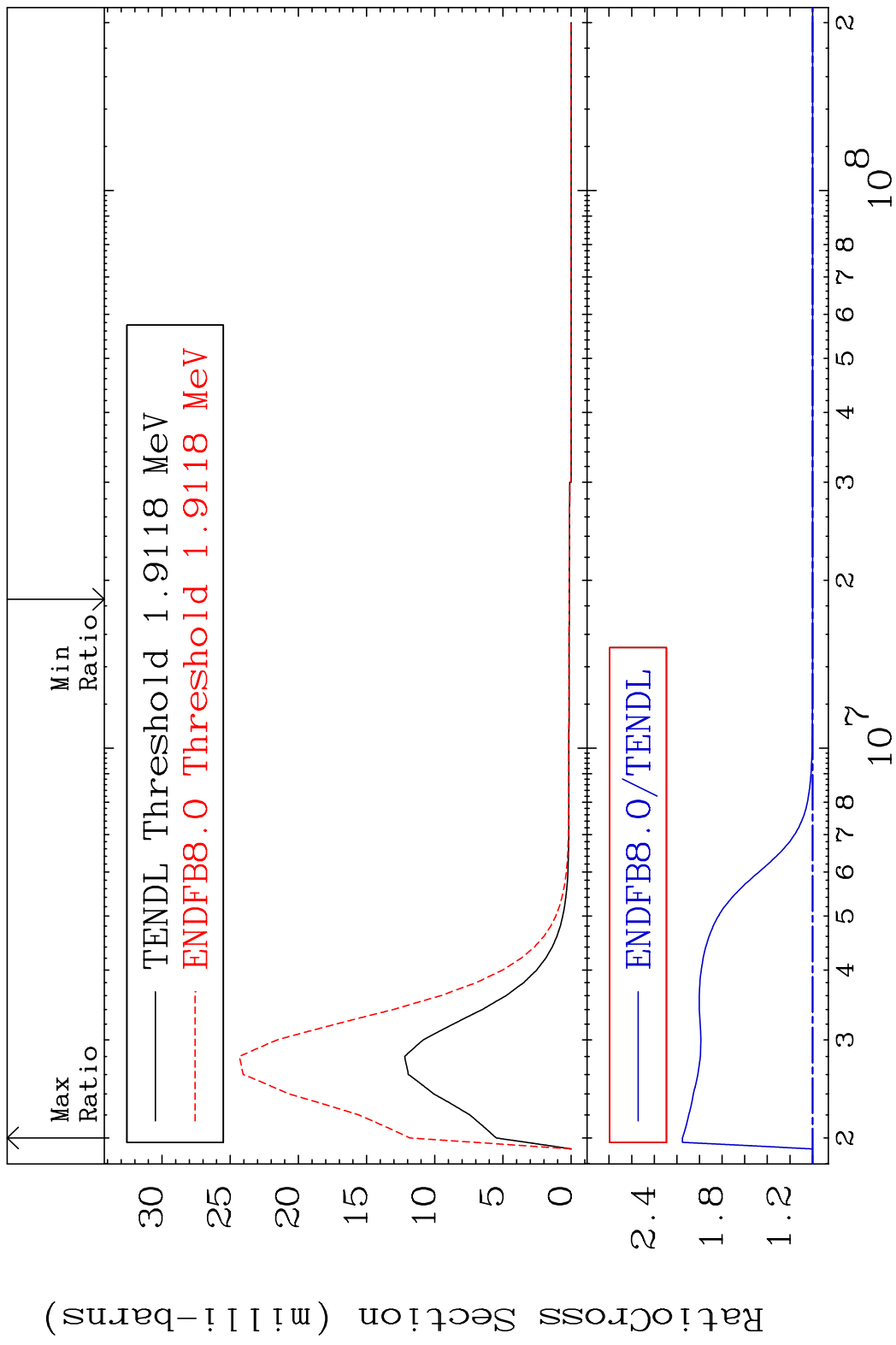
MAT 6137 MT= 67 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 2705. %



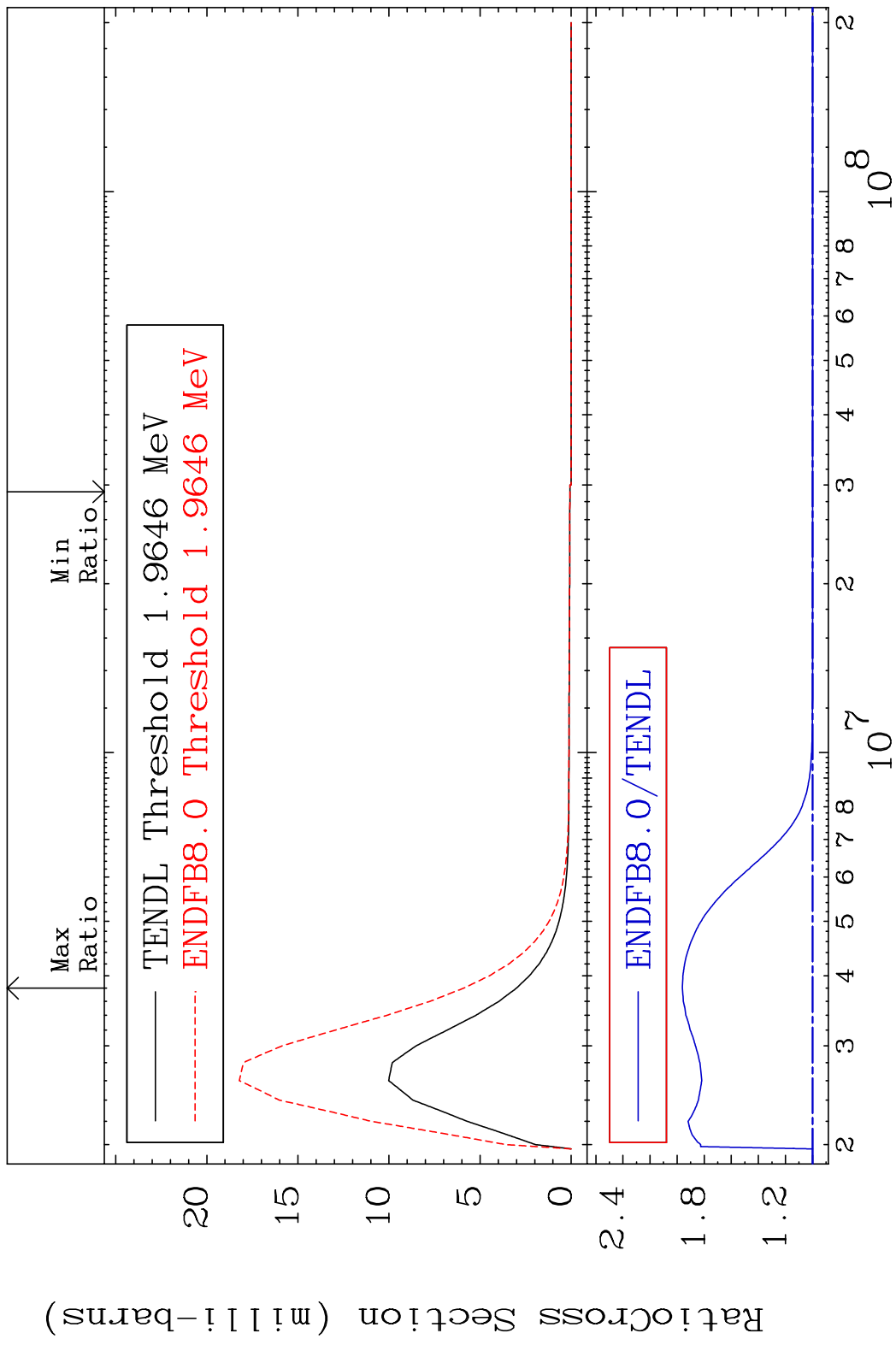
MAT 6137 MT= 68 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 715.1 %



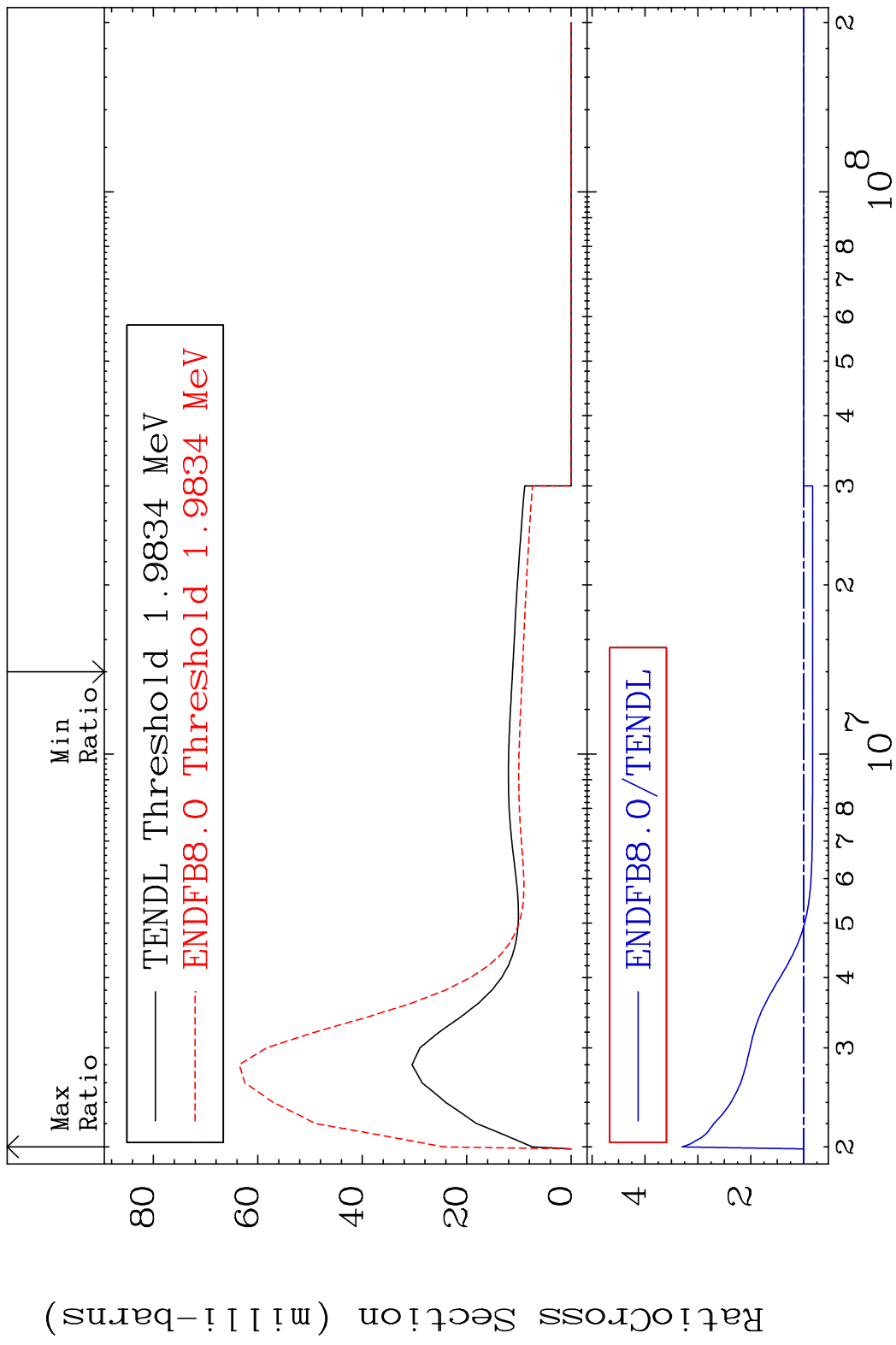
MAT 6137 MT= 69 (n, n') Level 61-Pm-143
 Cross Section 0.000 To 115.2 %



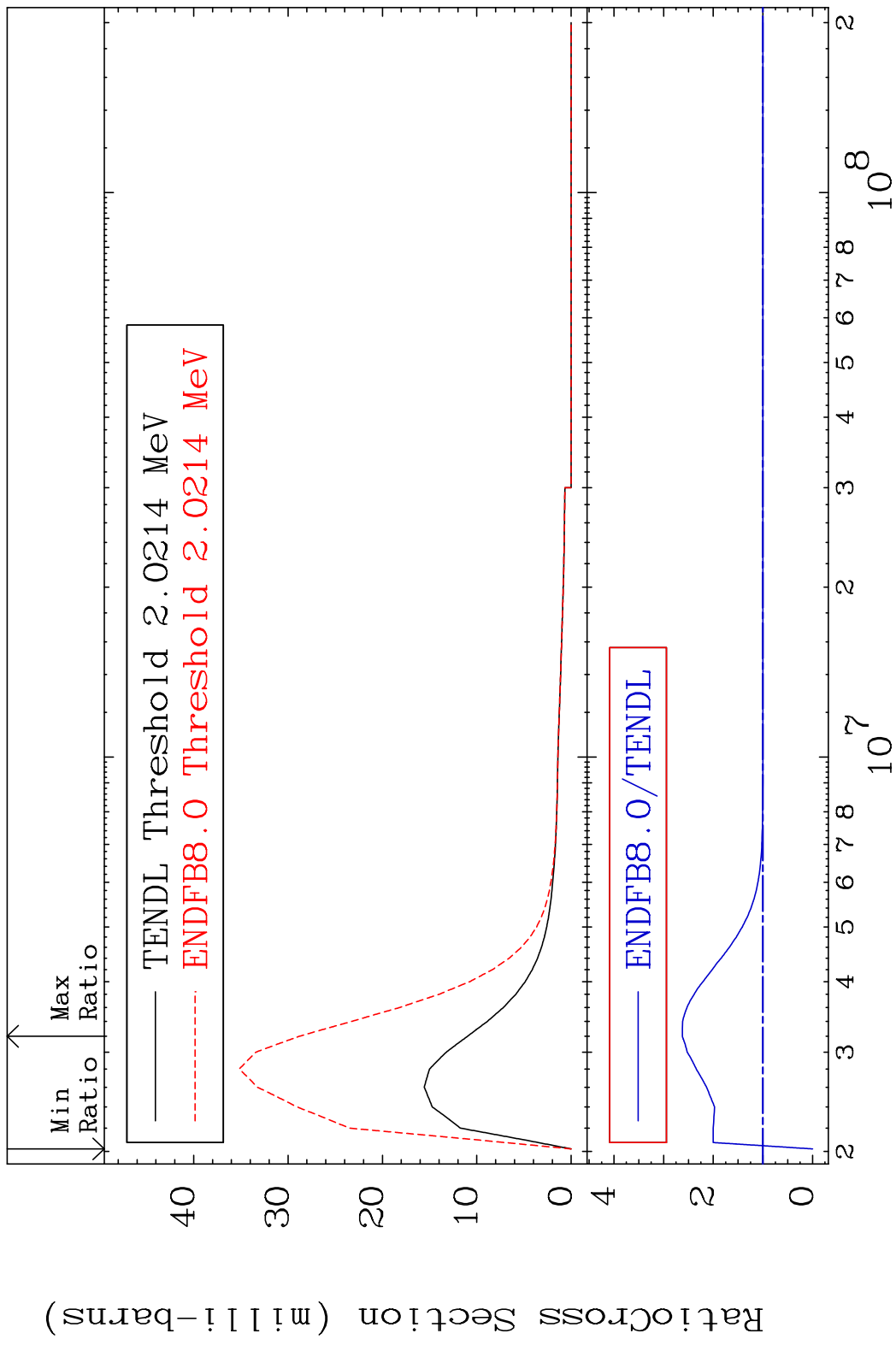
MAT 6137 MT= 70 (n, n') Level 61-Pm-143
 Cross Section 0.000 To 96.13 %



MAT 6137 MT= 71 (n, n') Level 61-Pm-143
 Cross Section -16.66 To 229.4 %

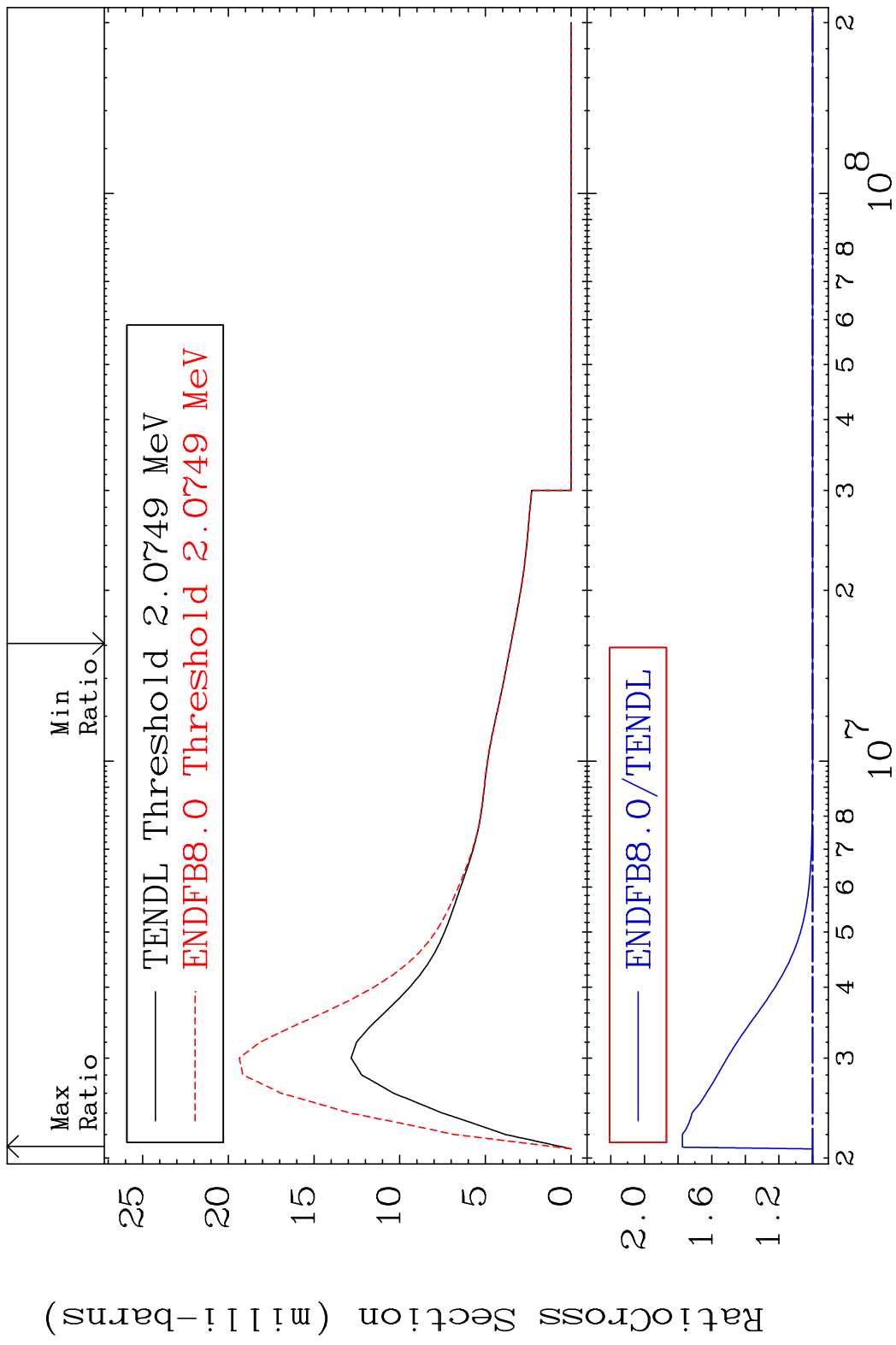


MAT 6137 MT= 72 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 162.3 %

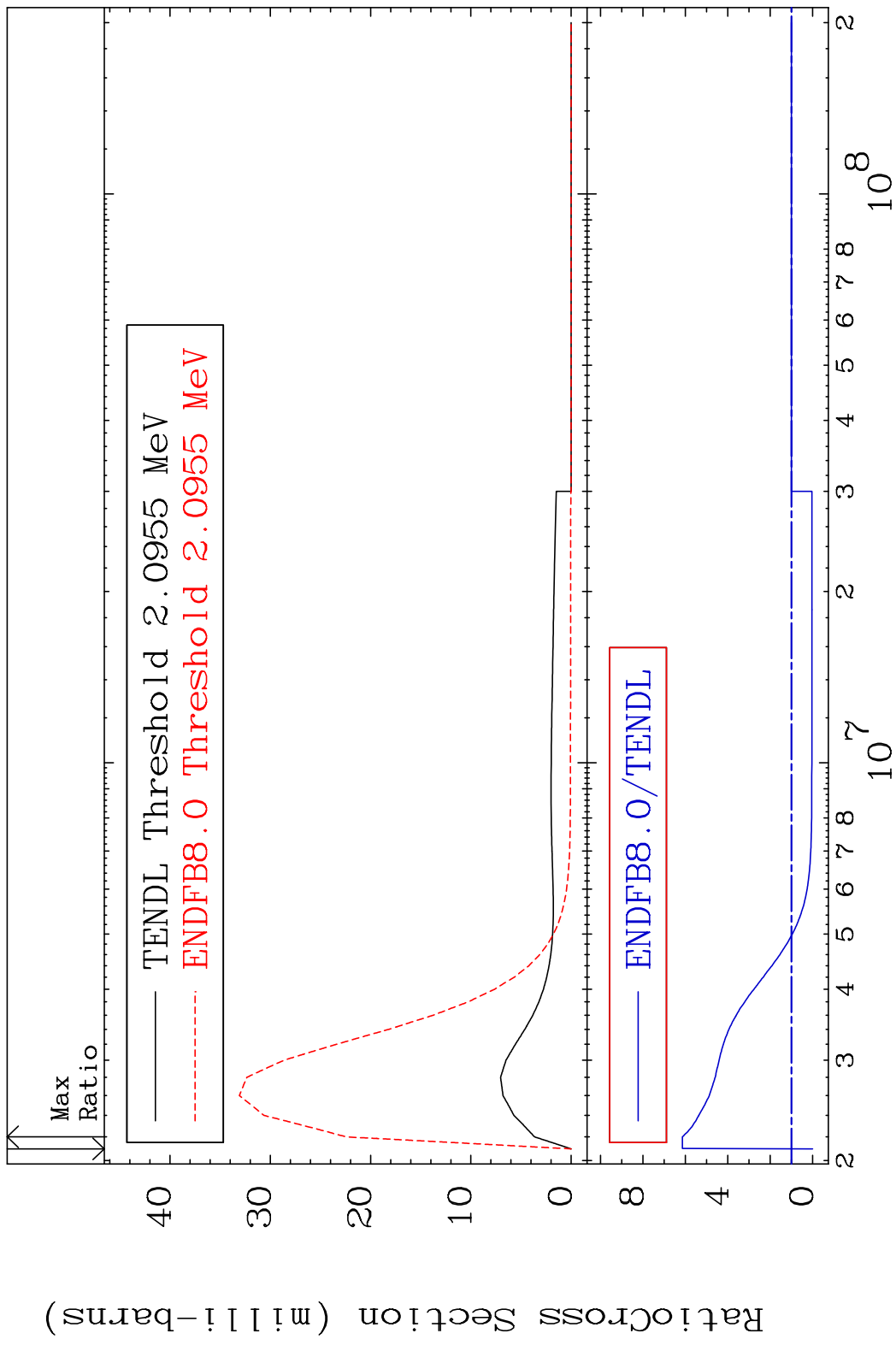


40 Incident Energy (eV) 61-Pm-143

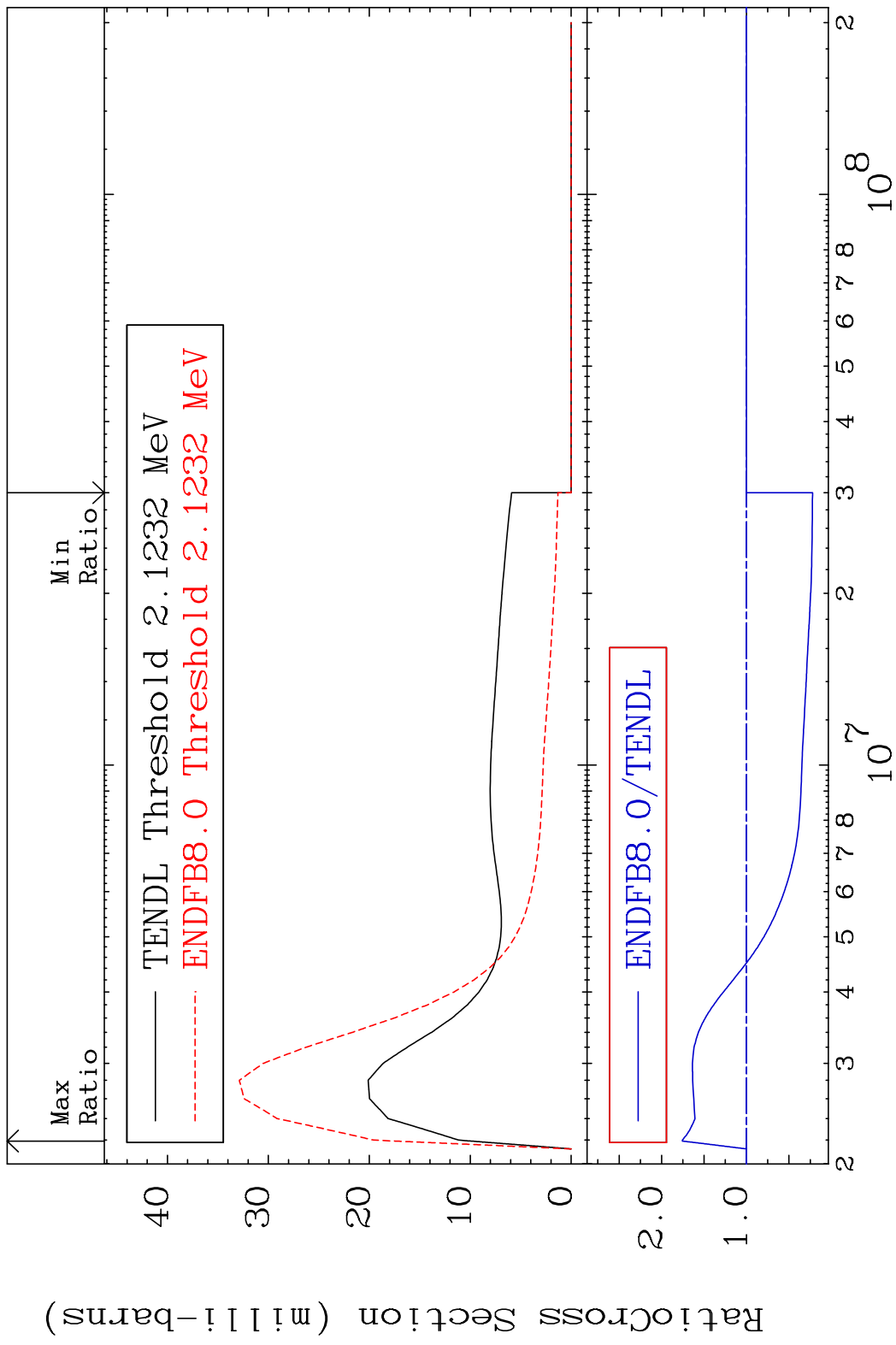
MAT 6137 MT= 73 (n, n') Level 61-Pm-143
 Cross Section 0.000 To 77.48 %



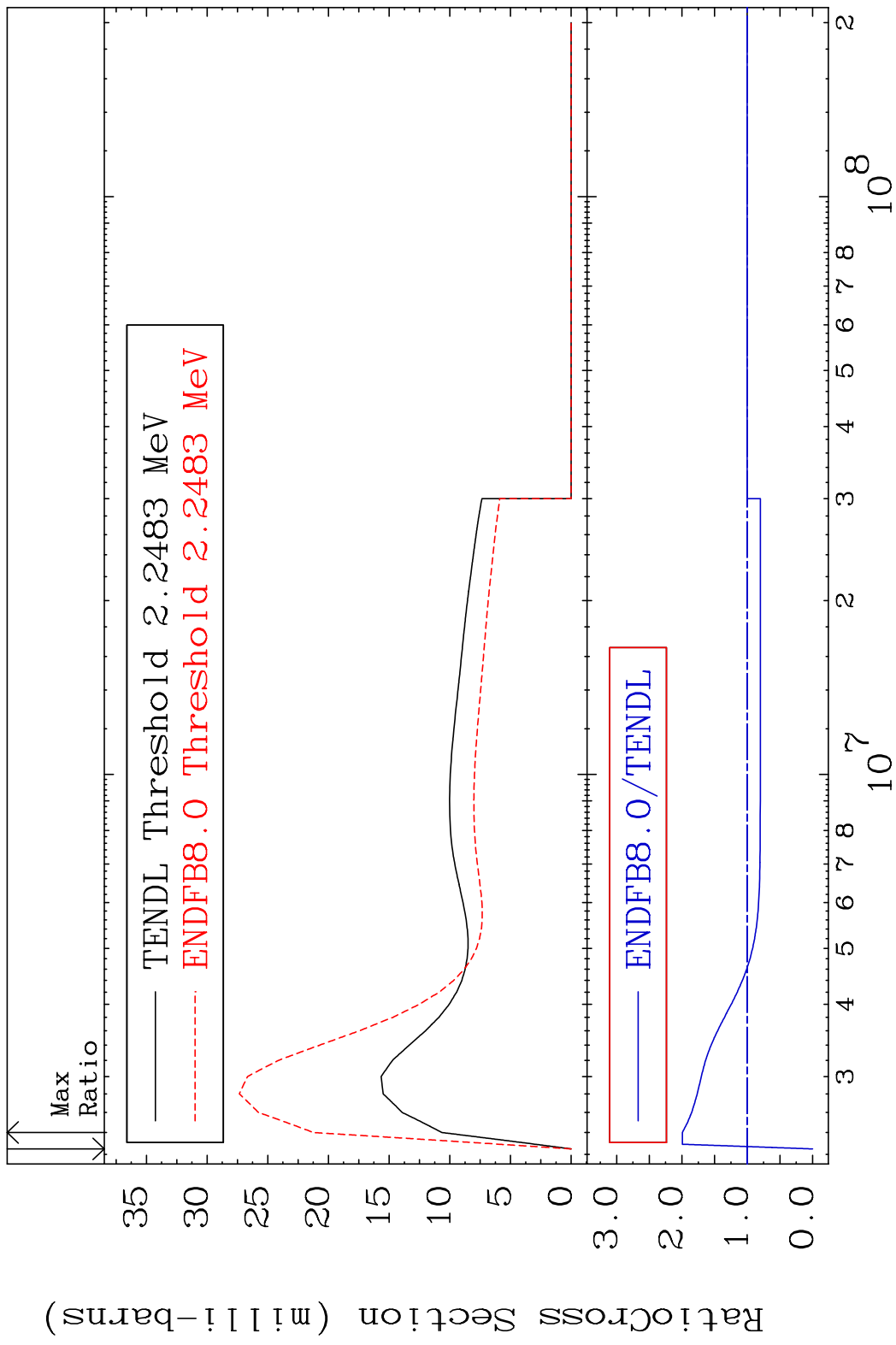
MAT 6137 MT= 74 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 514.1 %



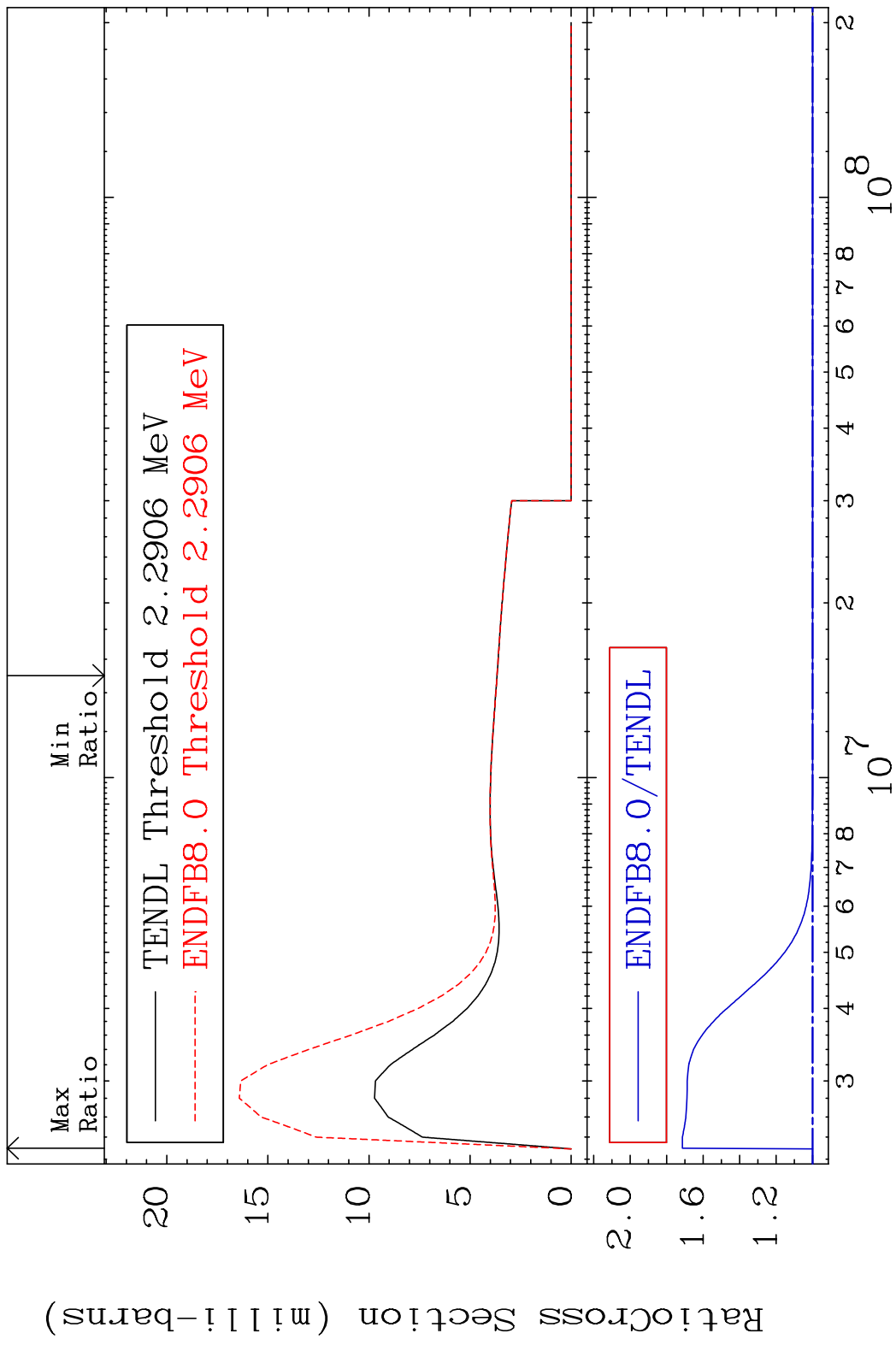
MAT 6137 MT= 75 (n, n') Level 61-Pm-143
 Cross Section -77.76 To 75.55 %



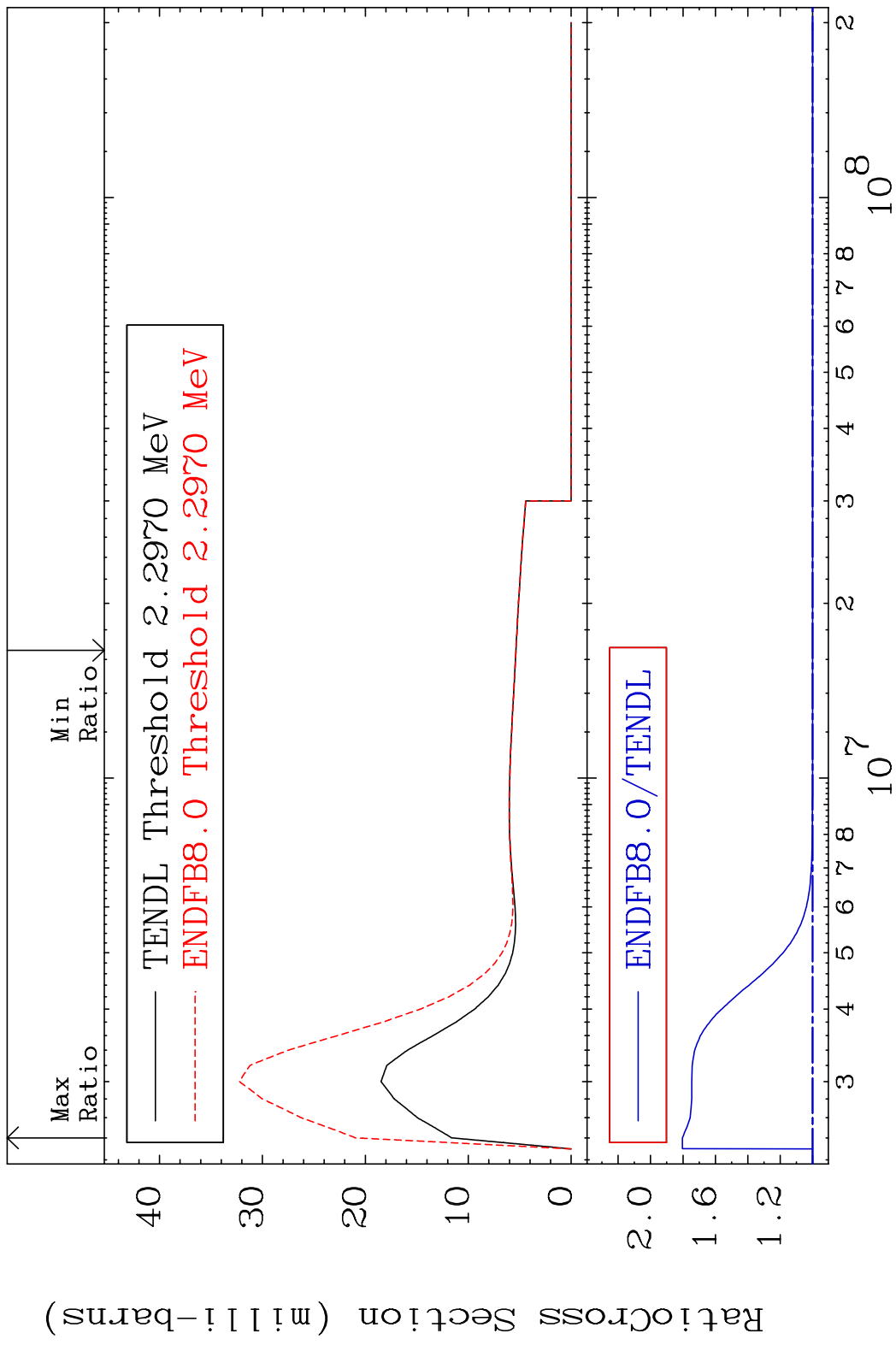
MAT 6137 MT= 76 (n, n') Level 61-Pm-143
 Cross Section -100.0 To 99.33 %



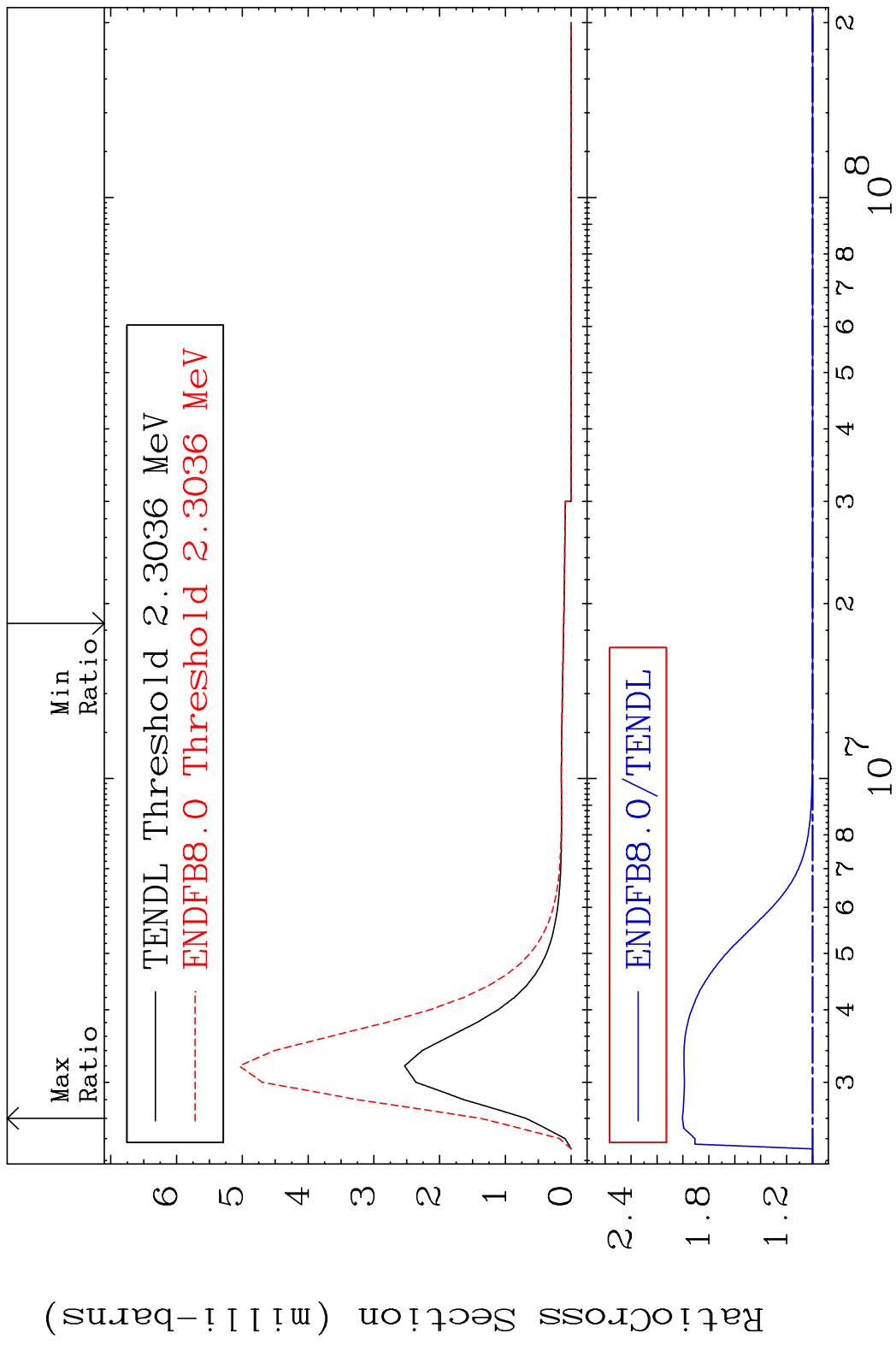
MAT 6137 MT= 77 (n, n') Level 61-Pm-143
 Cross Section 0.000 To 71.37 %



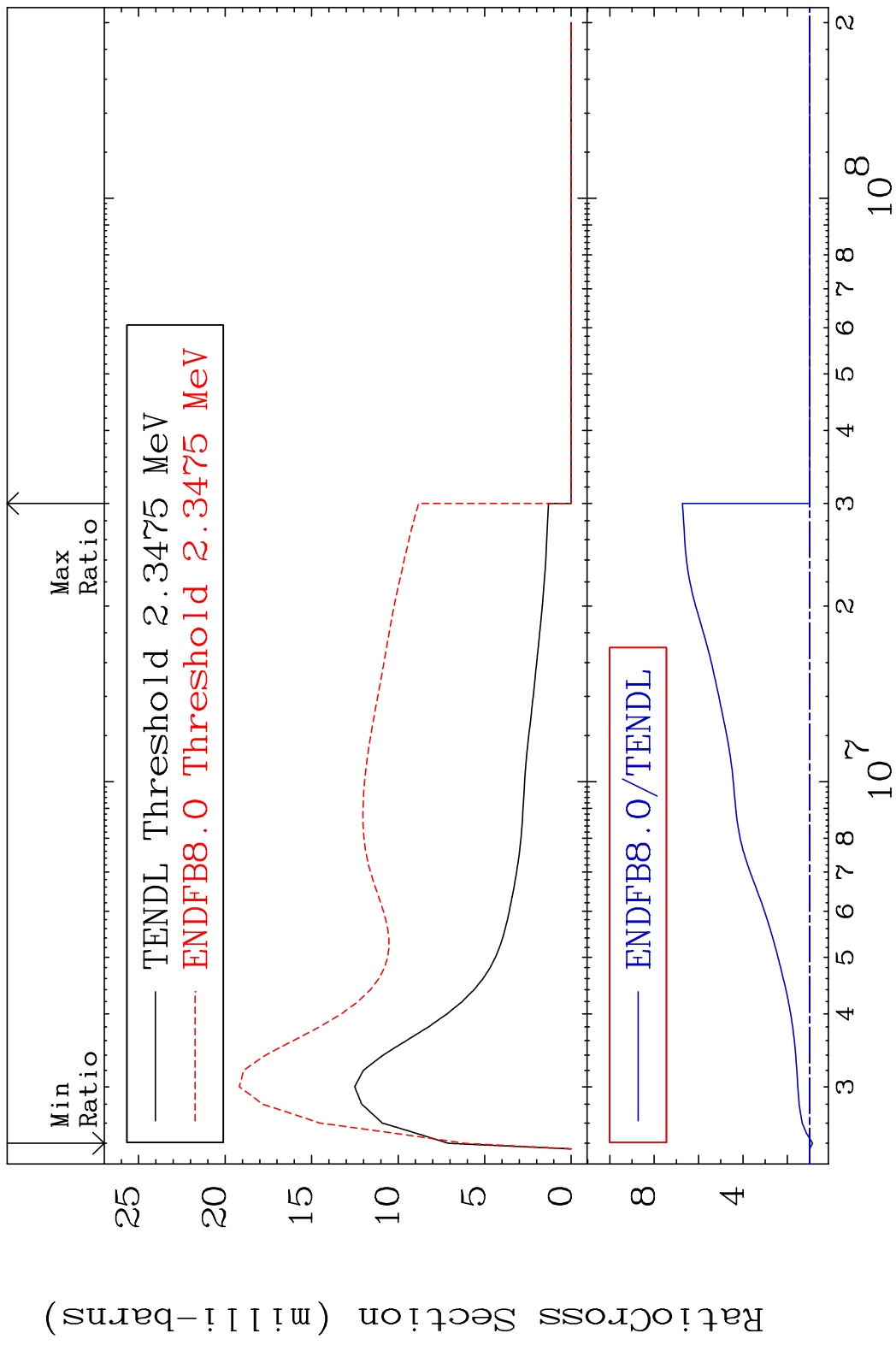
MAT 6137 MT= 78 (n, n') Level 61-Pm-143
 Cross Section 0.000 To 80.38 %



MAT 6137 MT= 79 (n, n') Level 61-Pm-143
 Cross Section 0.000 To 100.4 %



MAT 6137 MT= 80 (n, n') Level 61-Pm-143
 Cross Section -13.50 To 573.2 %



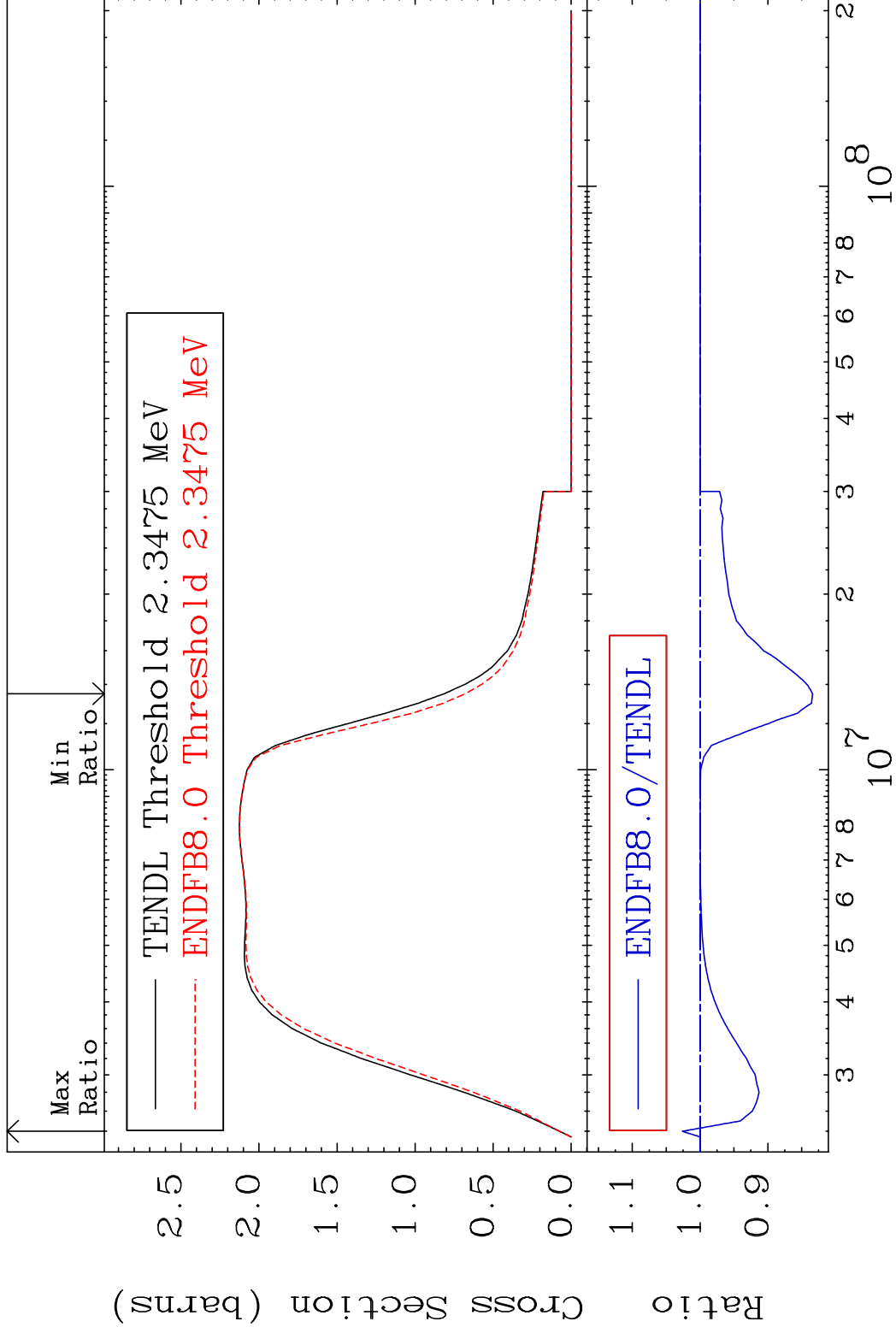
48 61-Pm-143

MAT 6137

(n,n') Continuum

61-Pm-143

Cross Section -16.60 To 2.614 %



49

Incident Energy (eV)

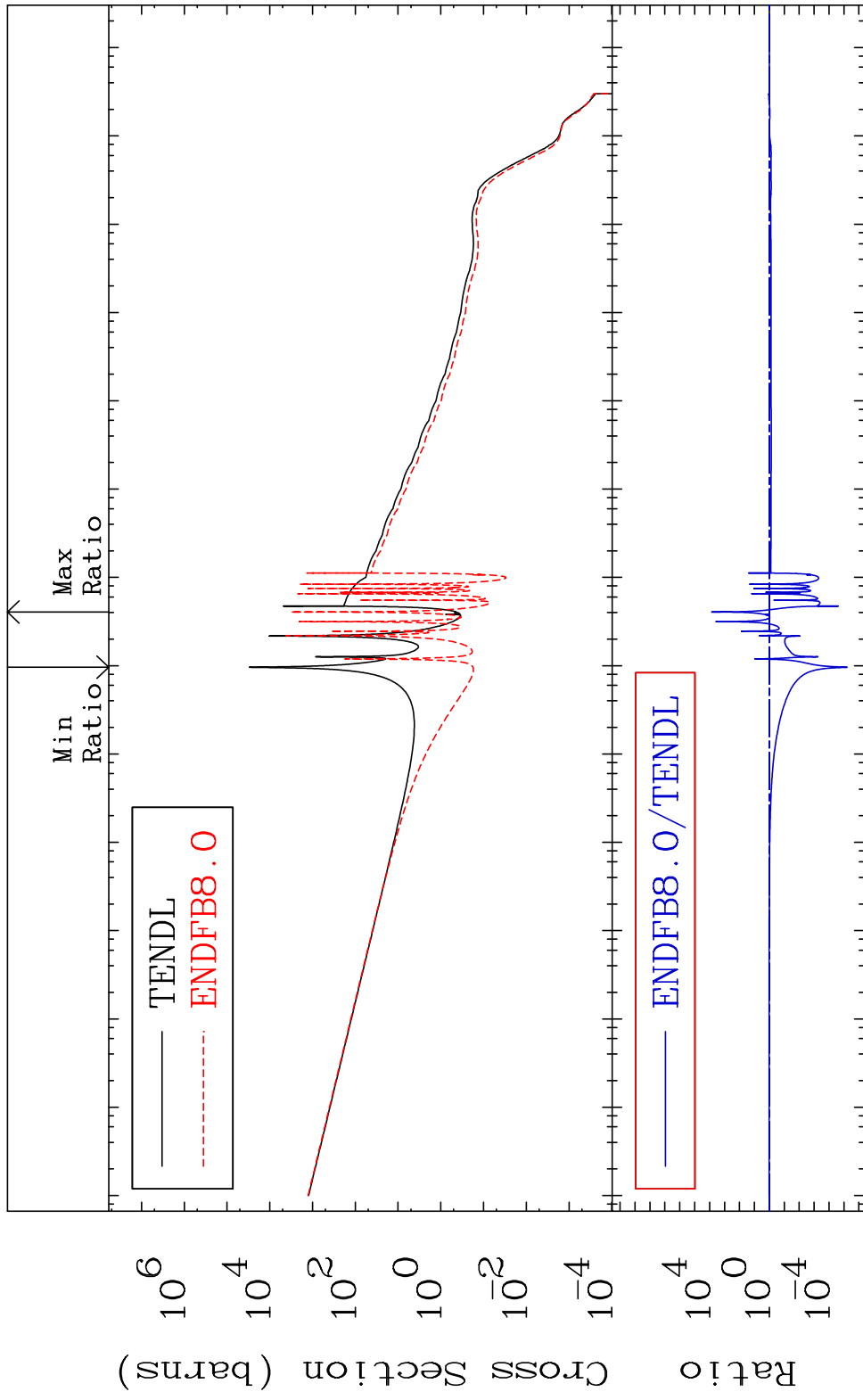
61-Pm-143

MAT 6137

(n, γ)

61-Pm-143

Cross Section -100.0 To 9999. %



50

Incident Energy (eV)

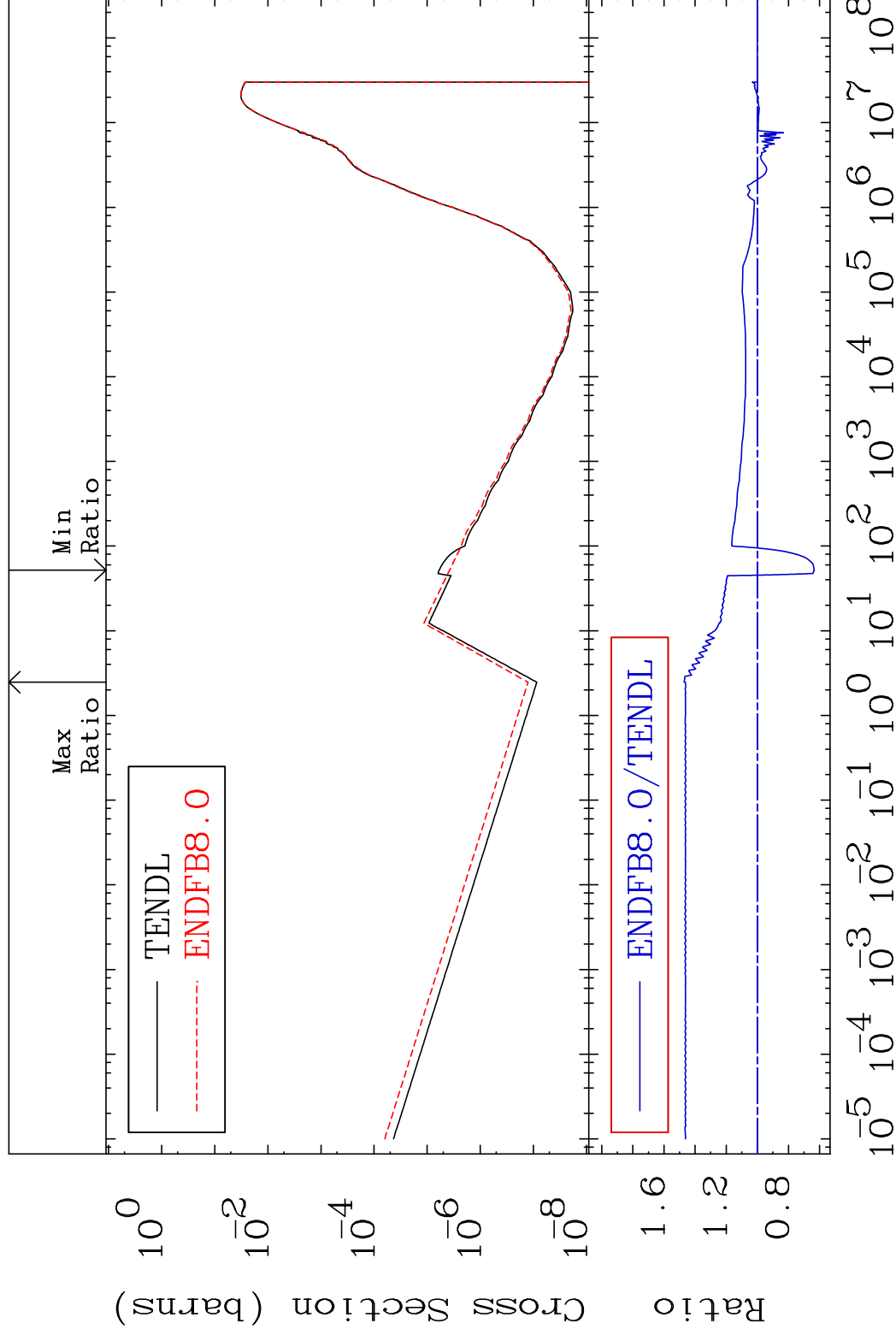
61-Pm-143

MAT 6137

(n, p)

61-Pm-143

Cross Section -36.61 To 47.09 %



51

Incident Energy (eV)

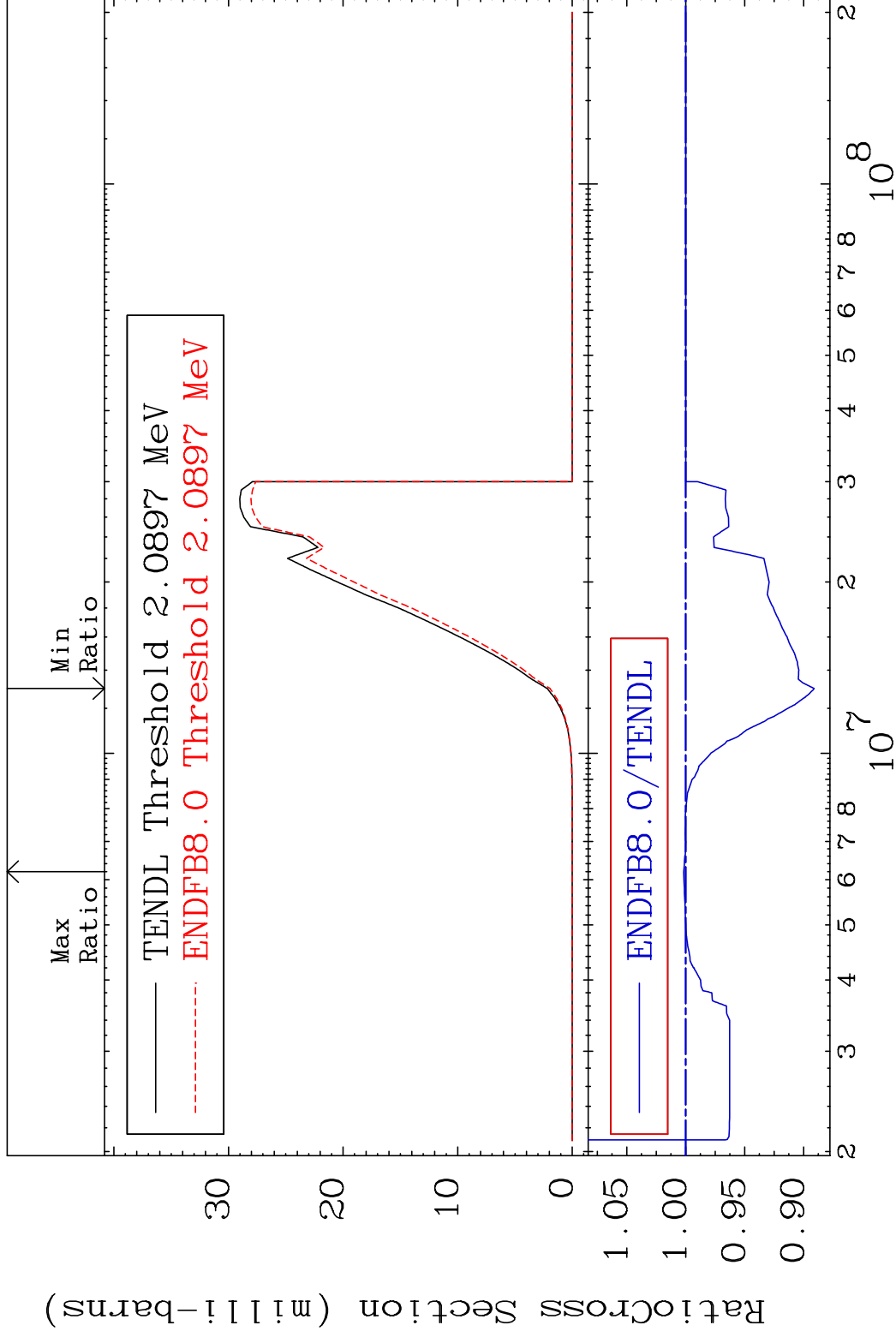
61-Pm-143

MAT 6137

(n, d)

61-Pm-143

Cross Section -10.90 To 0.169 %

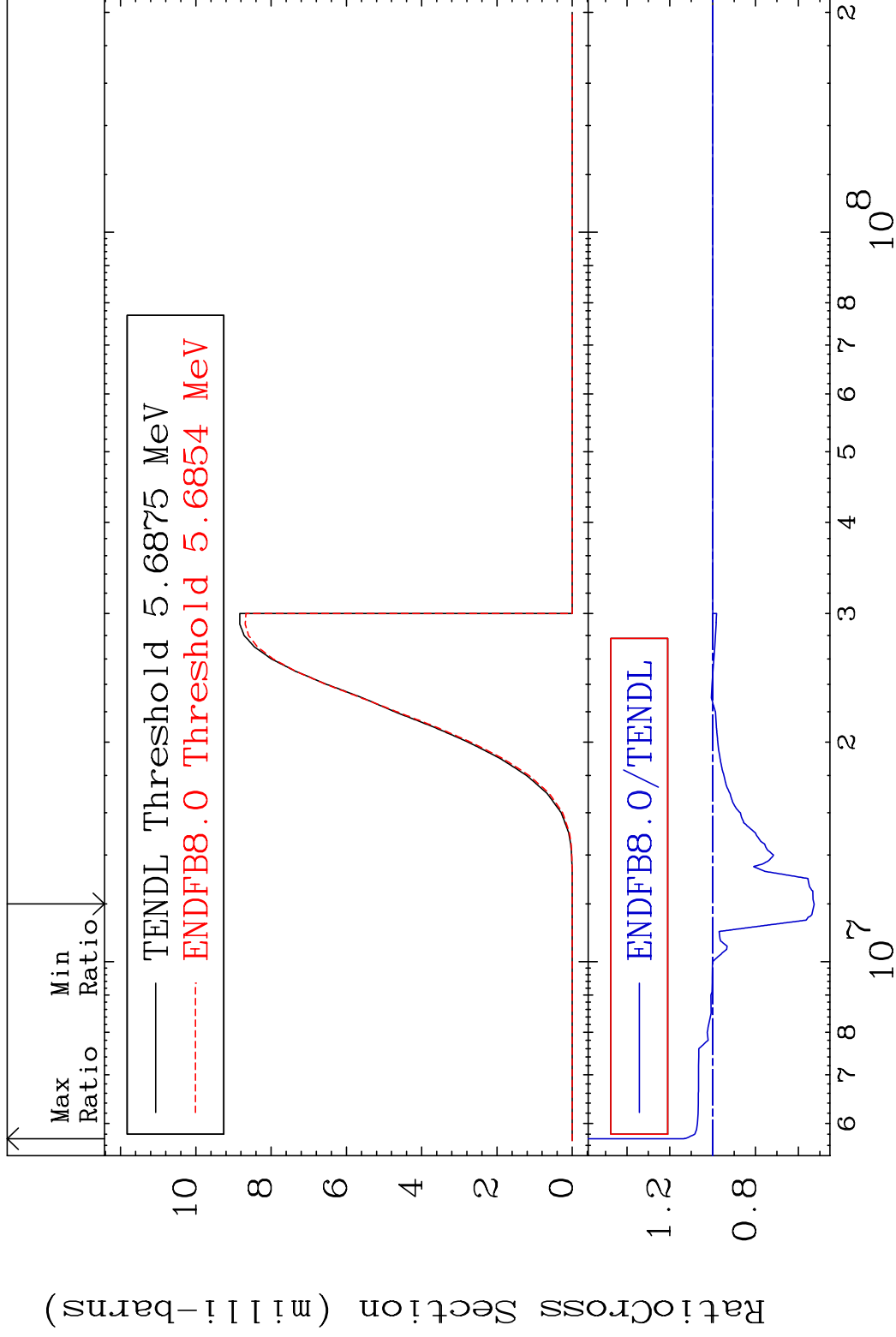


MAT 6137

(n, t)

61-Pm-143

Cross Section -47.36 To 13.54 %



53

Incident Energy (eV)

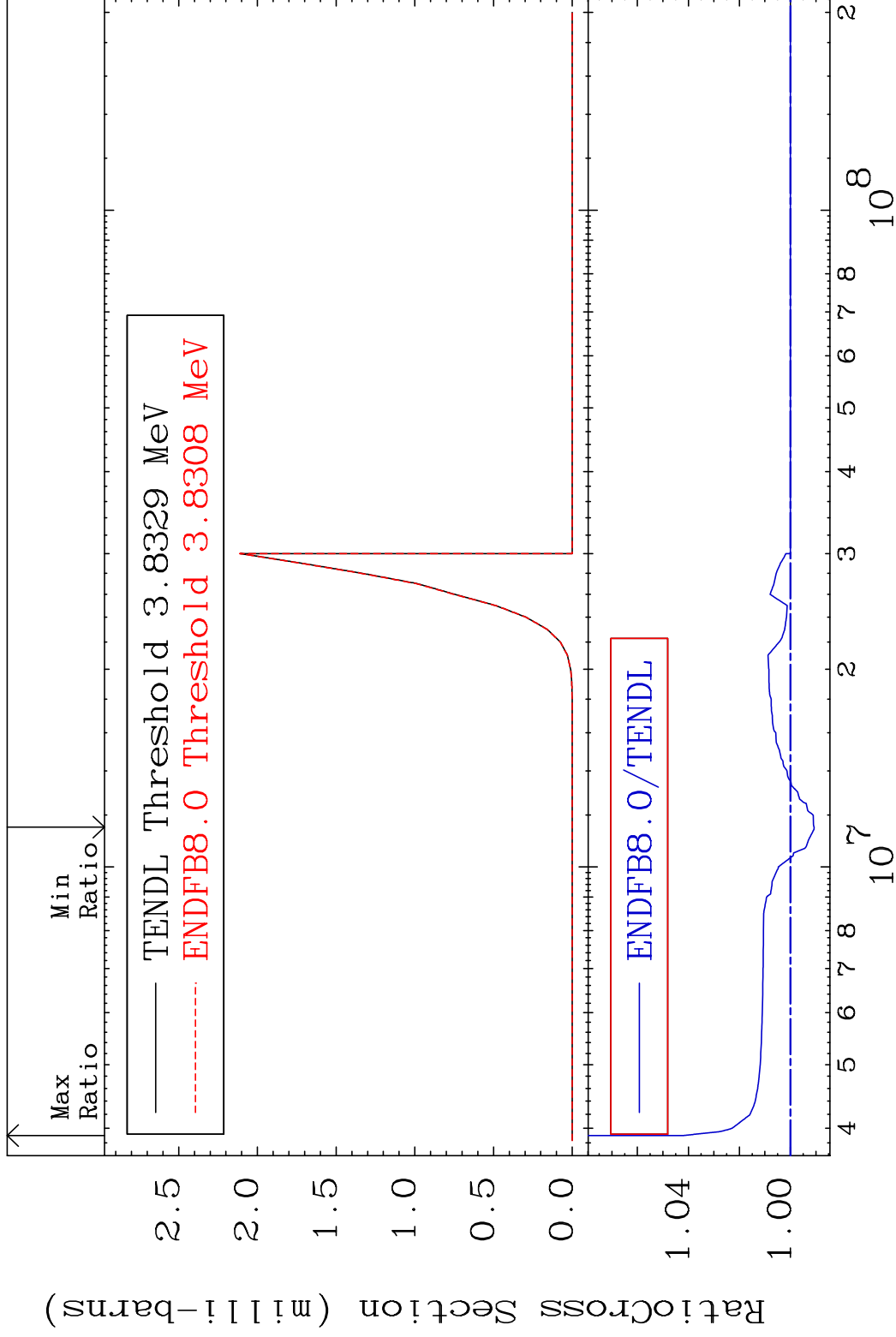
61-Pm-143

MAT 6137

(n, He-3)

61-Pm-143

Cross Section -0.930 To 4.185 %

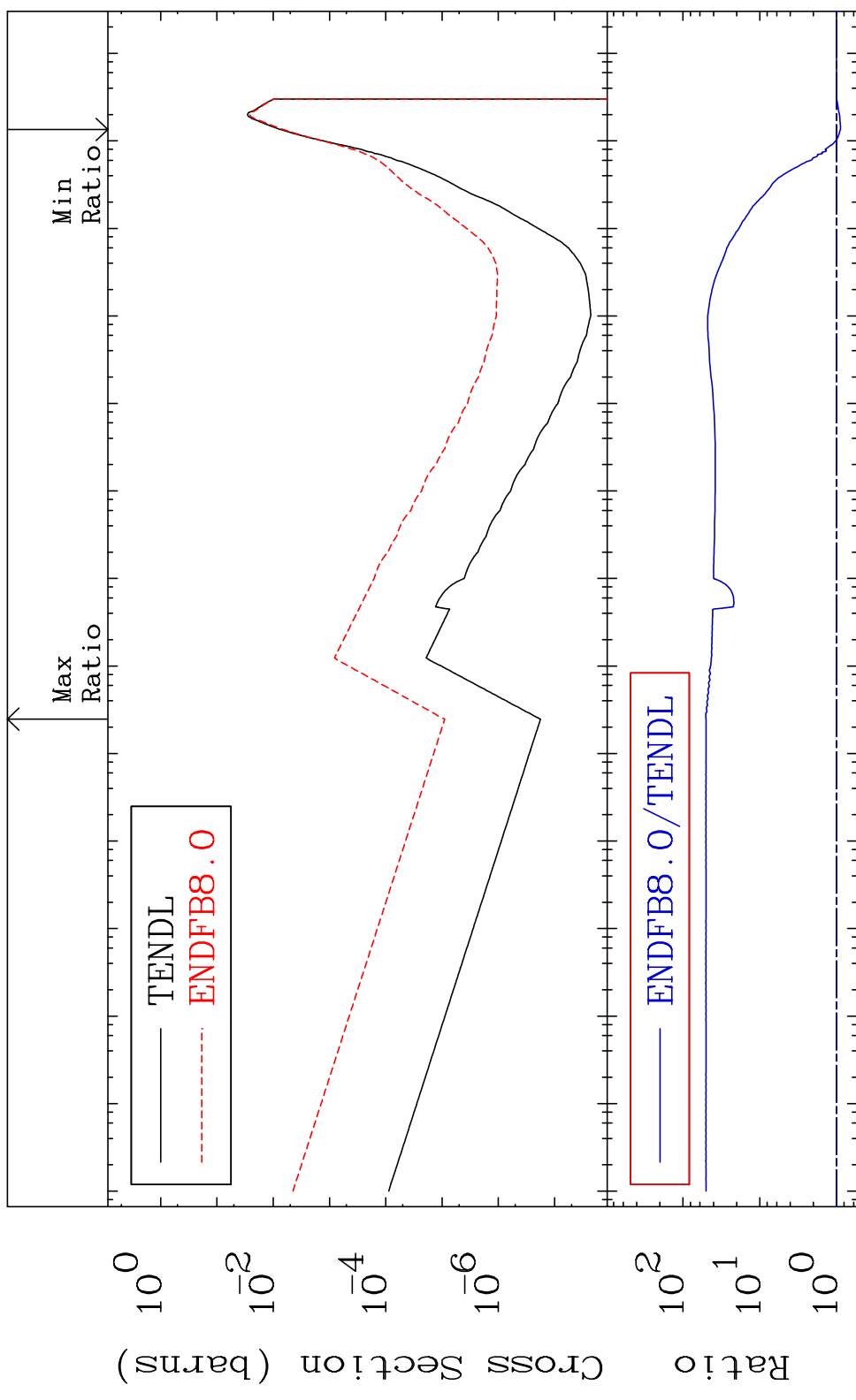


MAT 6137

(n, α)

61-Pm-143

Cross Section -11.01 To 4950. %

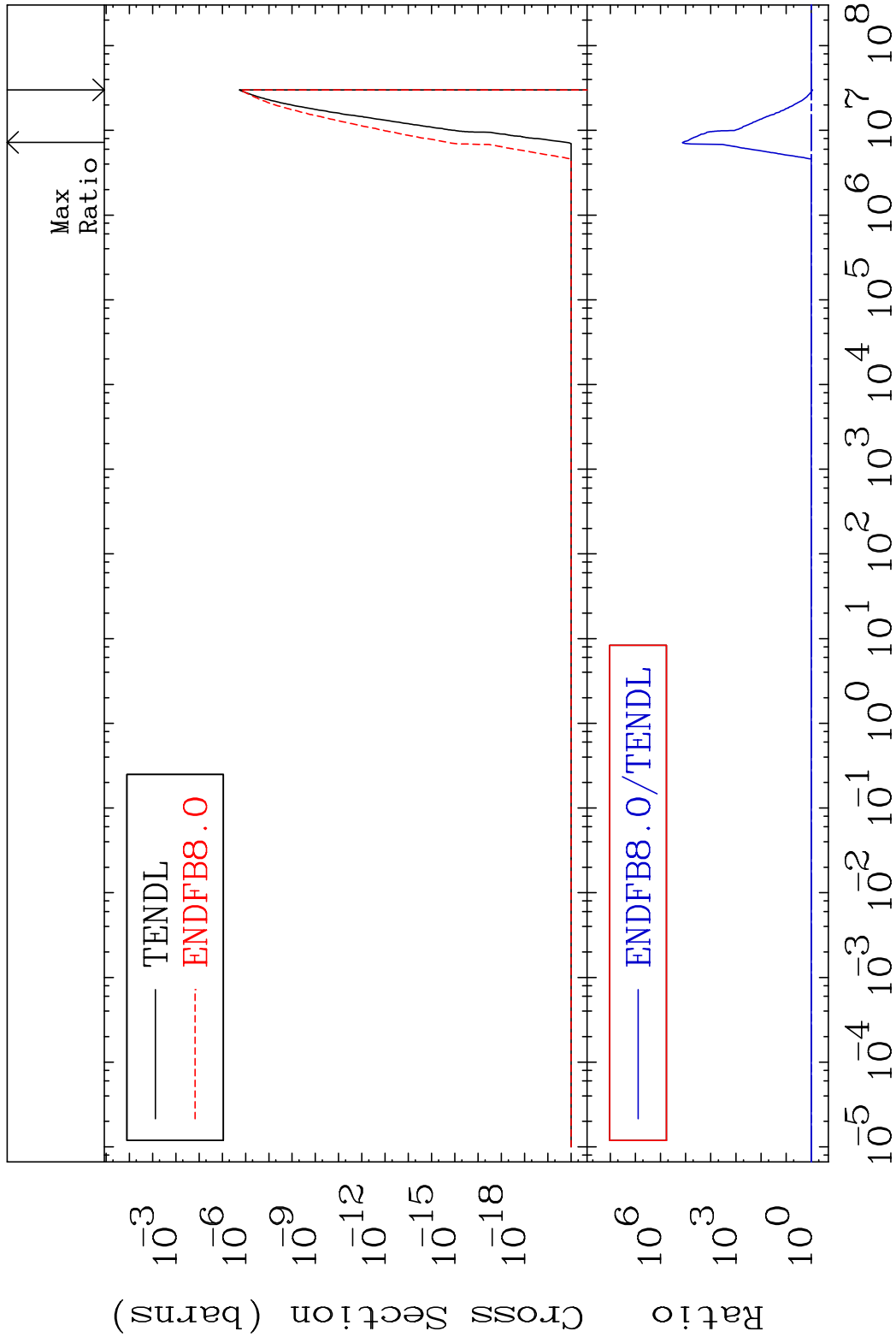


MAT 6137

(n,2α)

61-Pm-143

Cross Section -11.30 To 9999. %



56

Incident Energy (eV)

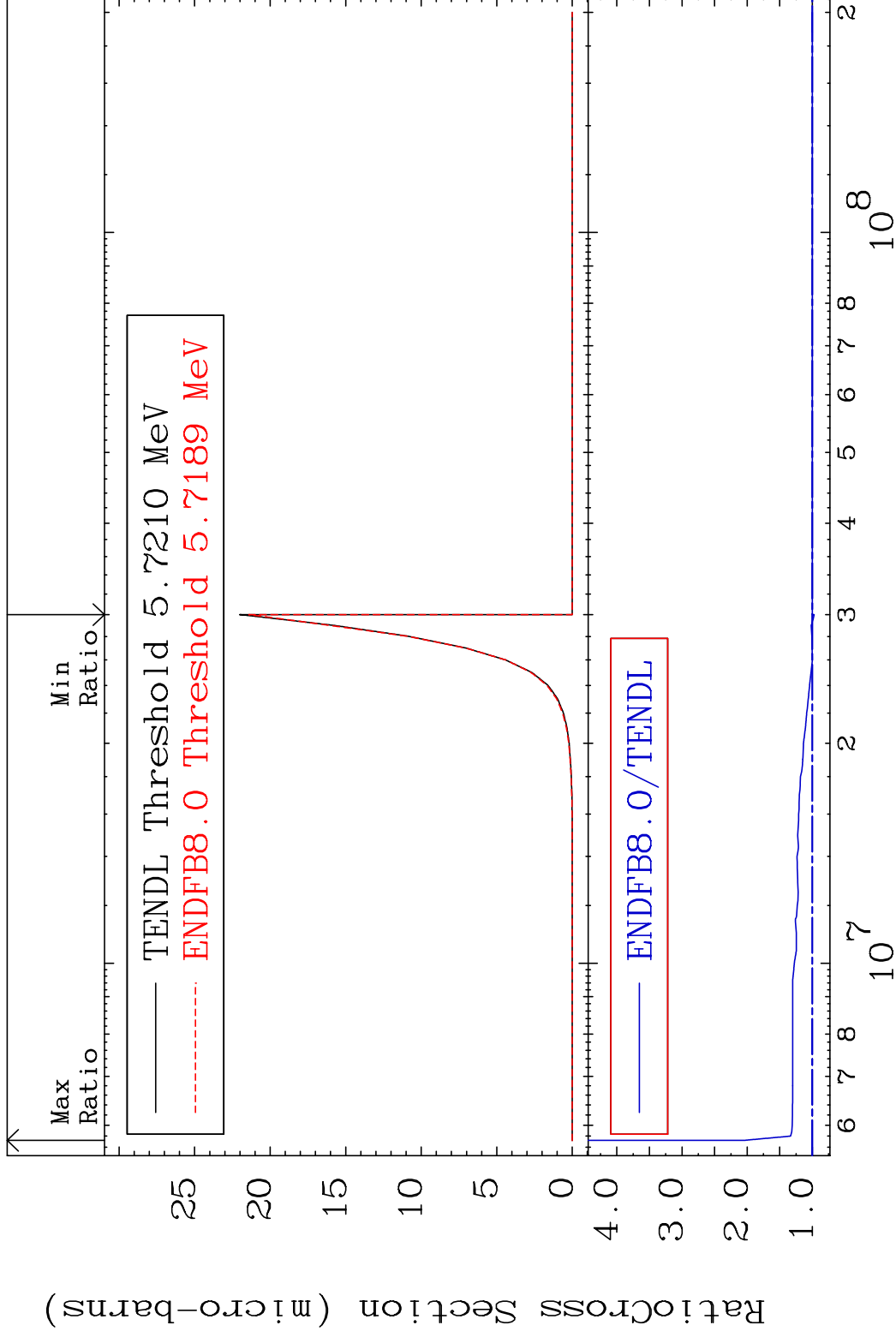
61-Pm-143

MAT 6137

(n,2p)

61-Pm-143

Cross Section -2.732 To 197.5 %



57

Incident Energy (eV)

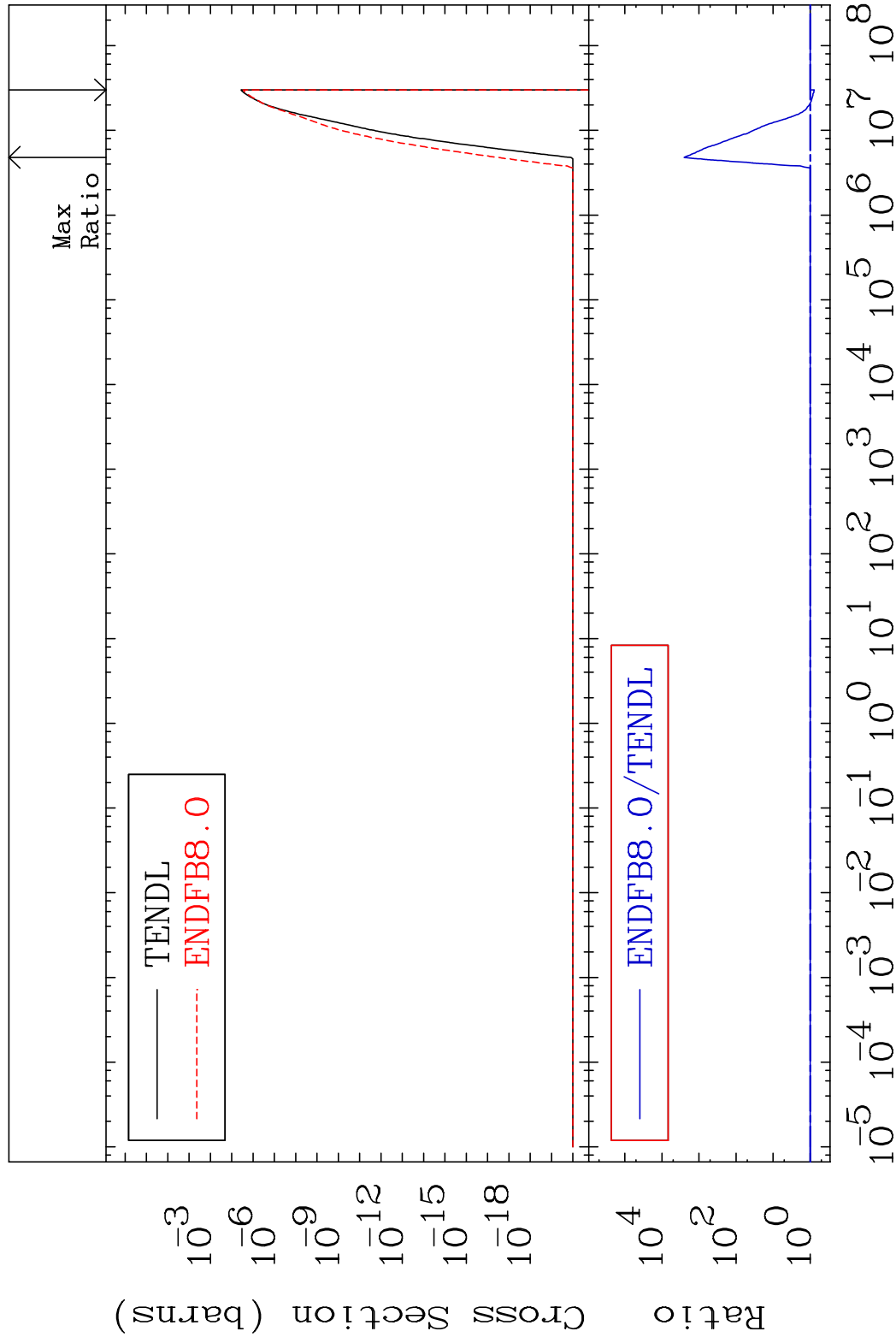
61-Pm-143

MAT 6137

(n,p) α

61-Pm-143

Cross Section -22.28 To 9999. %



58

Incident Energy (eV)

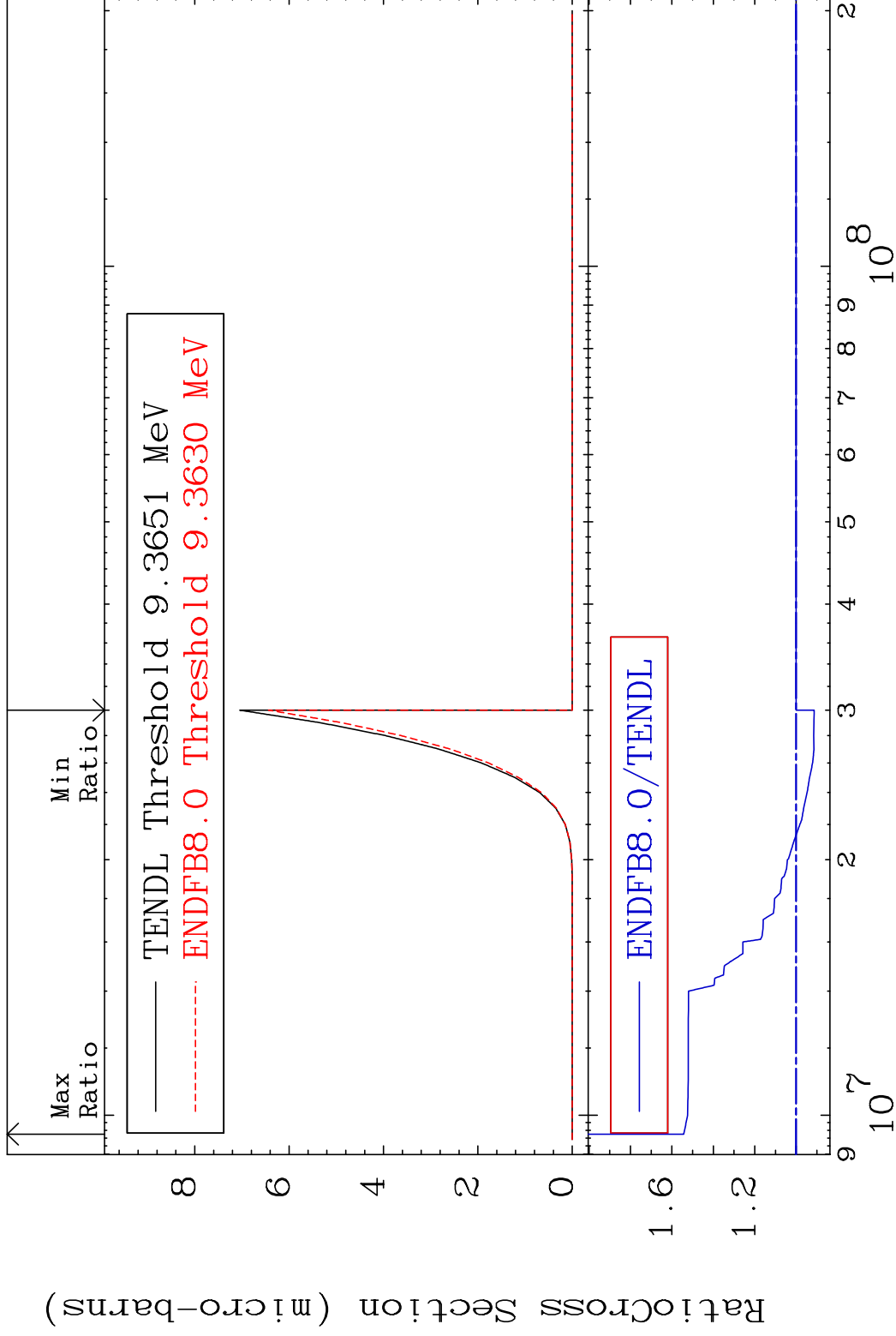
61-Pm-143

MAT 6137

(n,p) d

61-Pm-143

Cross Section -8.655 To 54.33 %



59

Incident Energy (eV)

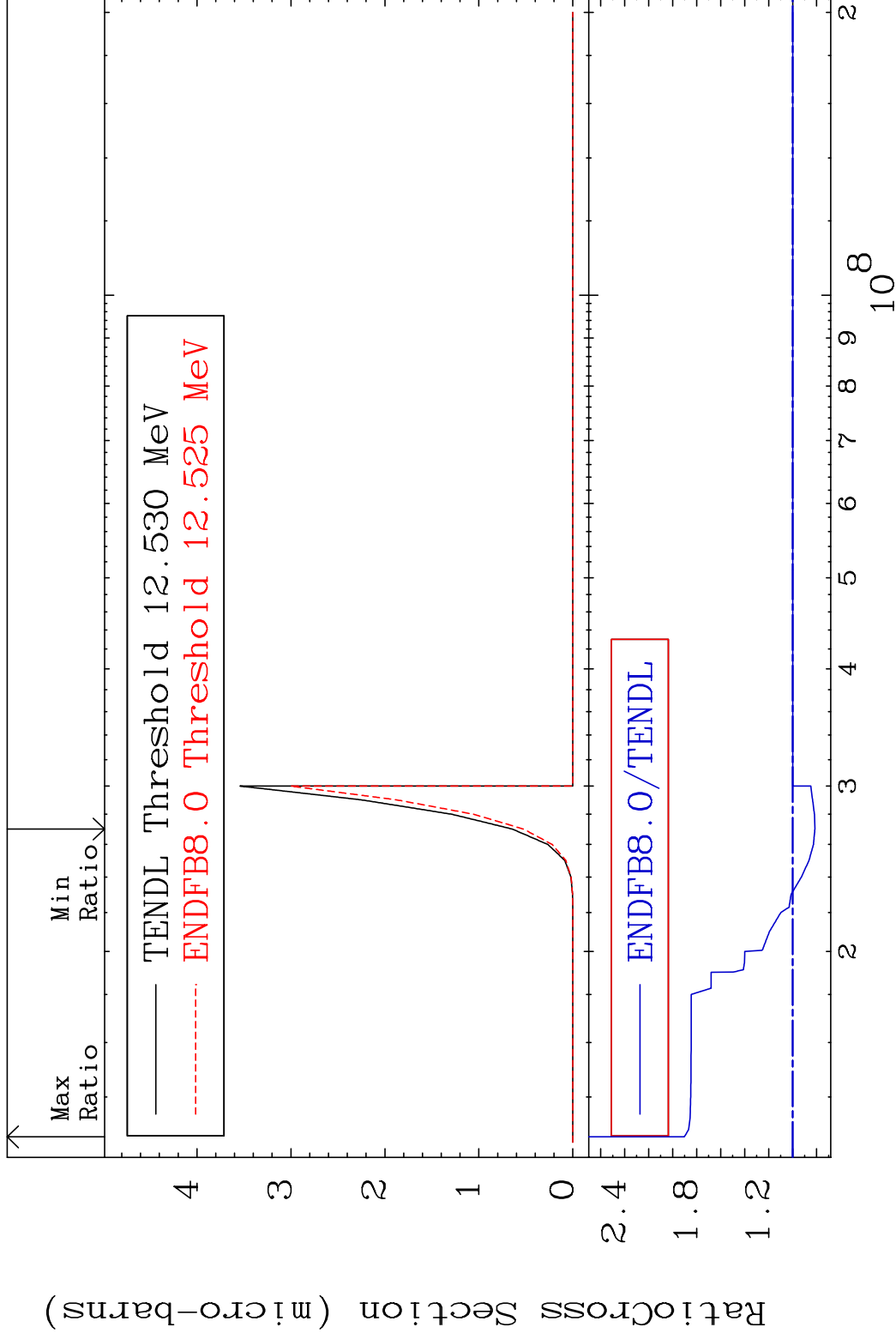
61-Pm-143

MAT 6137

(n,p) t

61-Pm-143

Cross Section -18.54 To 90.28 %



60

Incident Energy (eV)

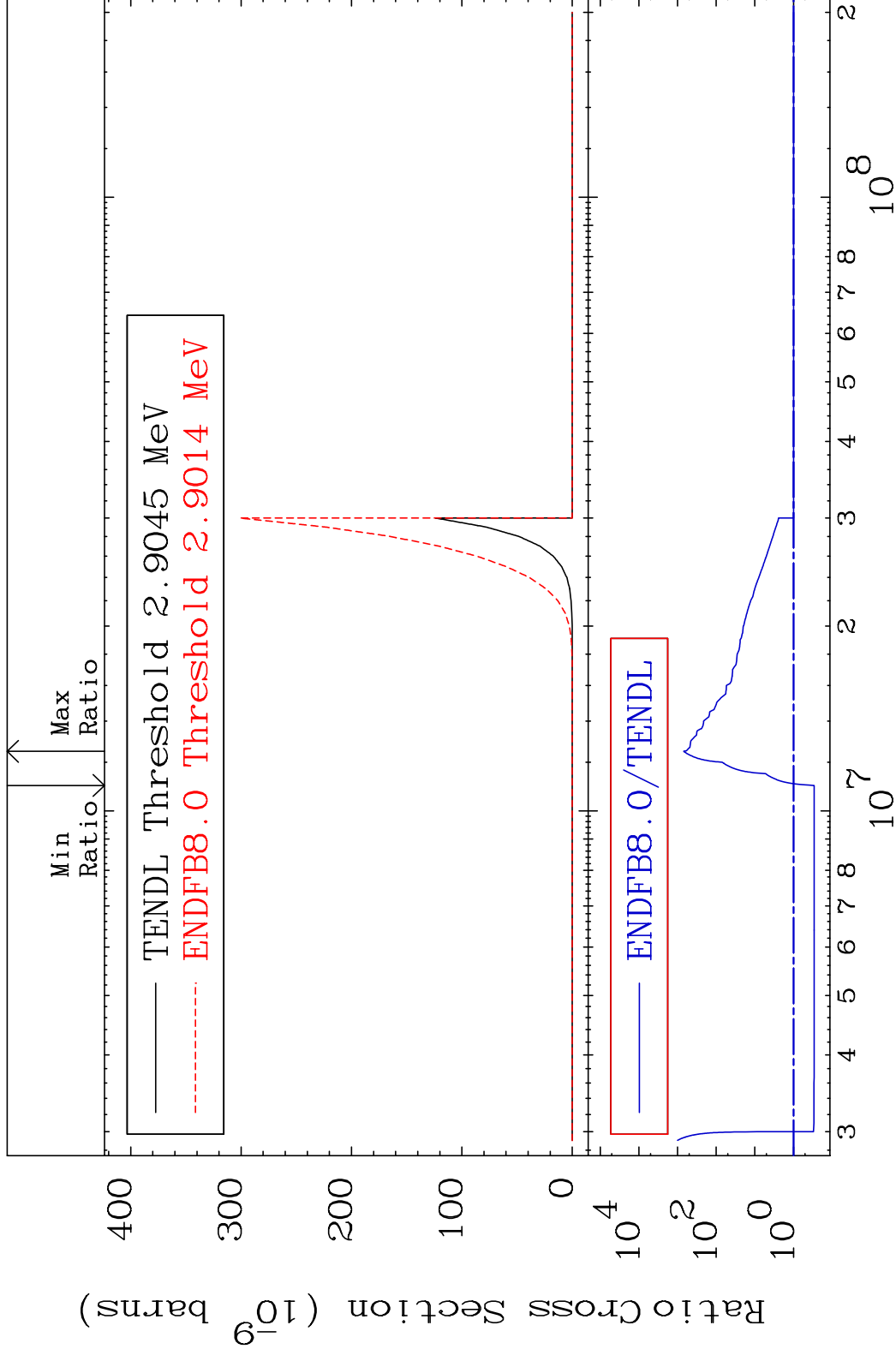
61-Pm-143

MAT 6137

(n,d) α

61-Pm-143

Cross Section -70.73 To 9999. %



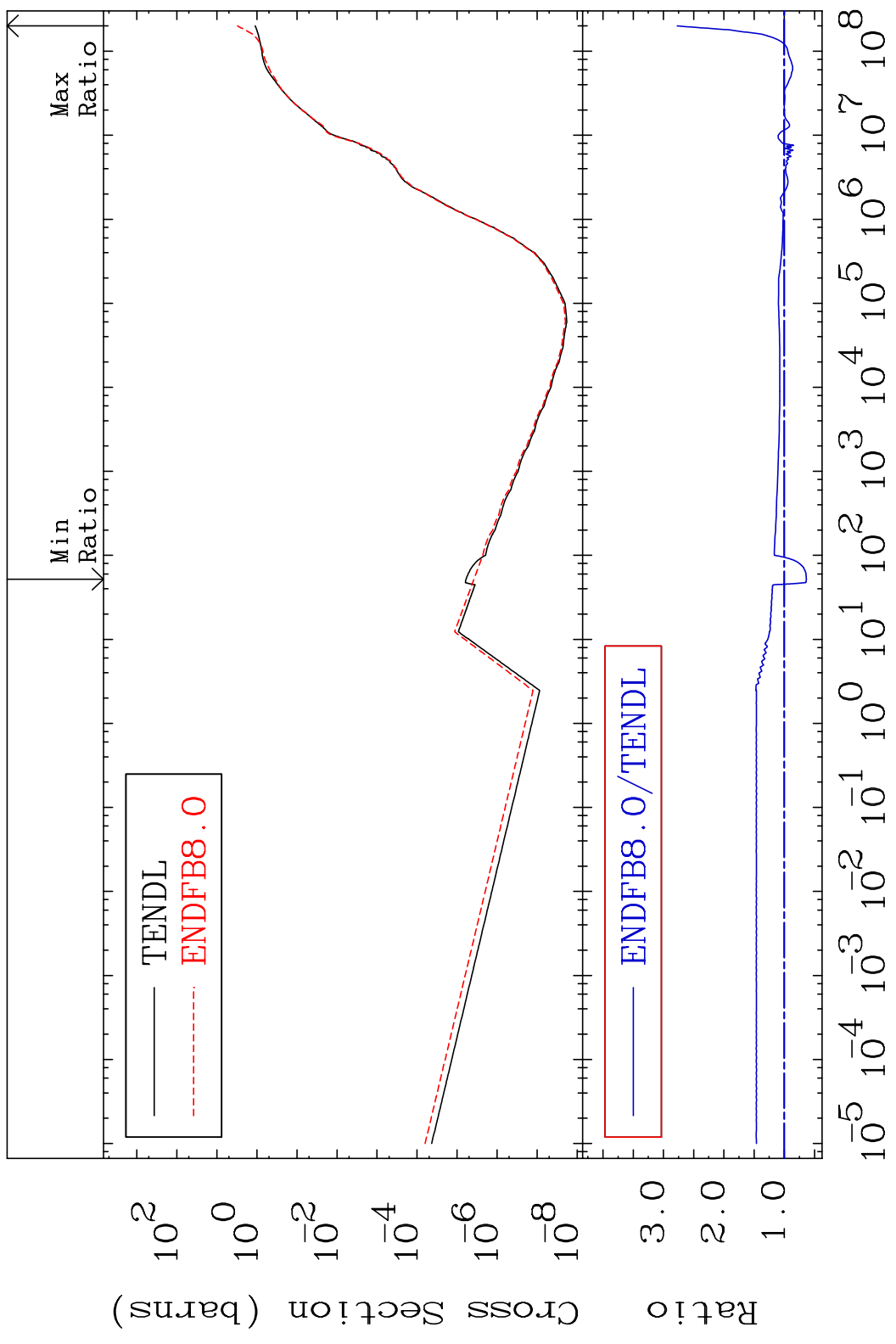
61

Incident Energy (eV)

61-Pm-143

MAT 6137

Hydrogen Production 61-Pm-143
Cross Section -36.61 To 177.3 %



62

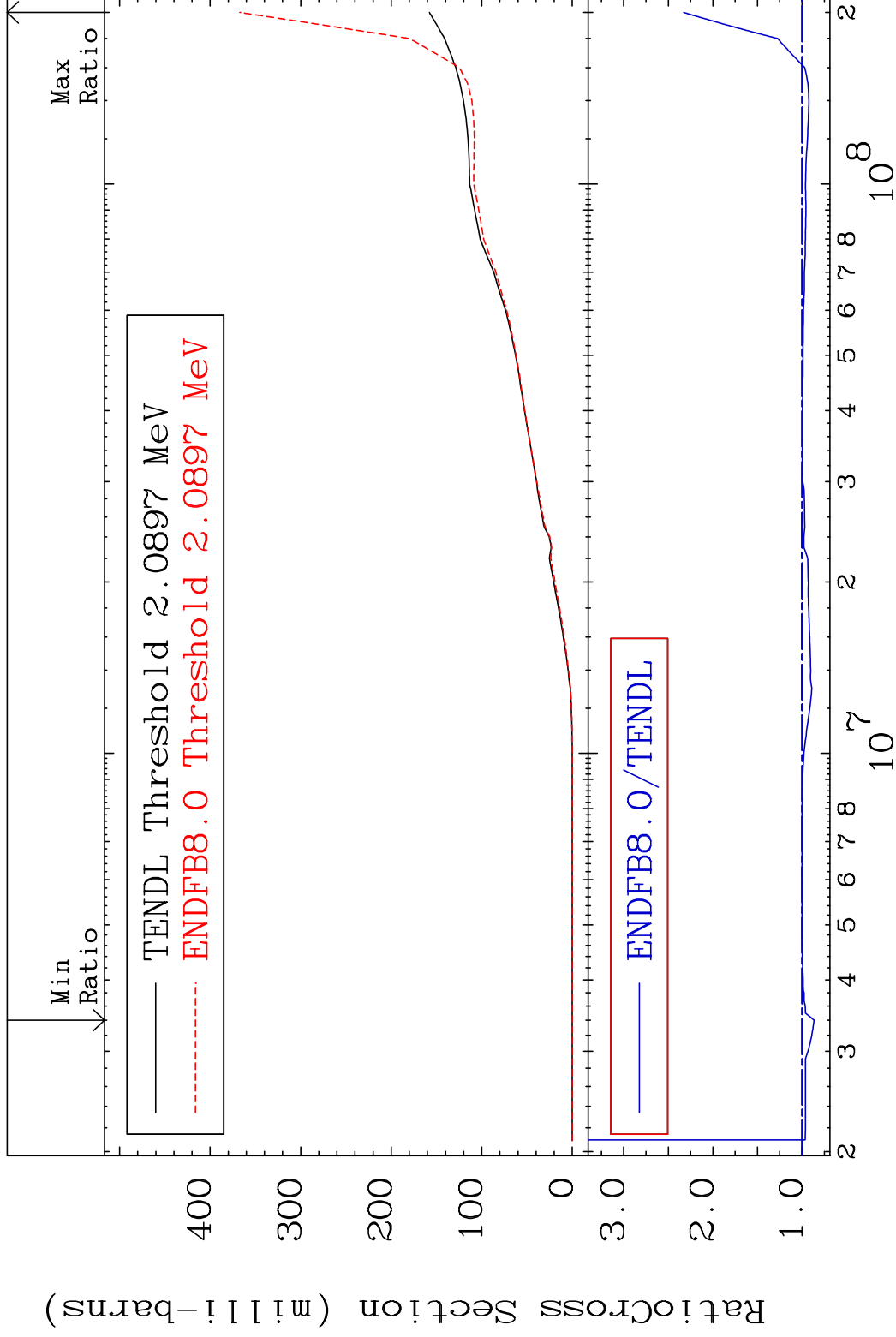
Incident Energy (eV) 61-Pm-143

MAT 6137

Deuterium Production

61-Pm-143

Cross Section -13.50 To 132.8 %



63

Incident Energy (eV)

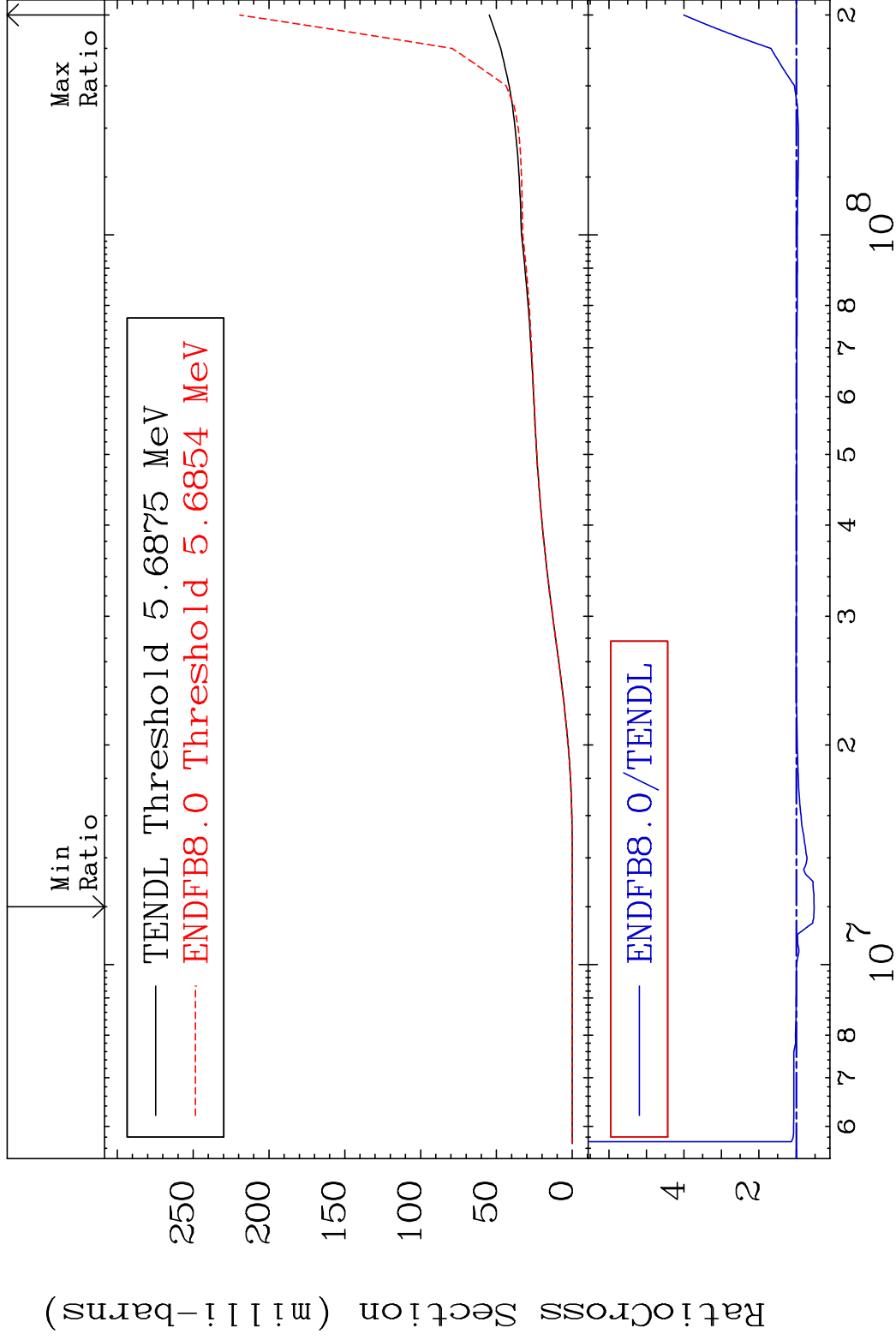
61-Pm-143

MAT 6137

Tritium Production

61-Pm-143

Cross Section -47.36 To 300.6 %



64

Incident Energy (eV)

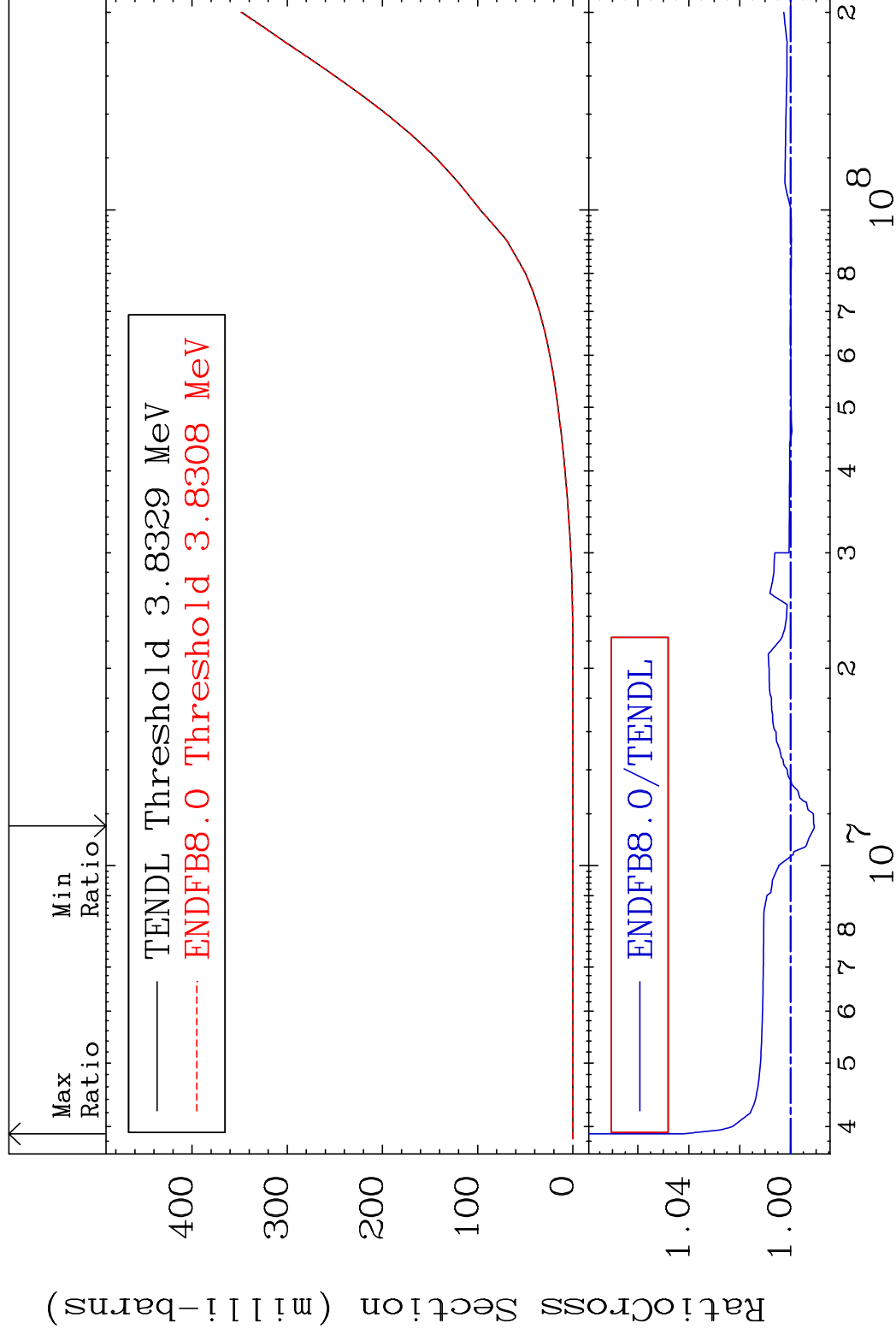
61-Pm-143

MAT 6137

He-3 Production

61-Pm-143

Cross Section -0.930 To 4.185 %



65

Incident Energy (eV)

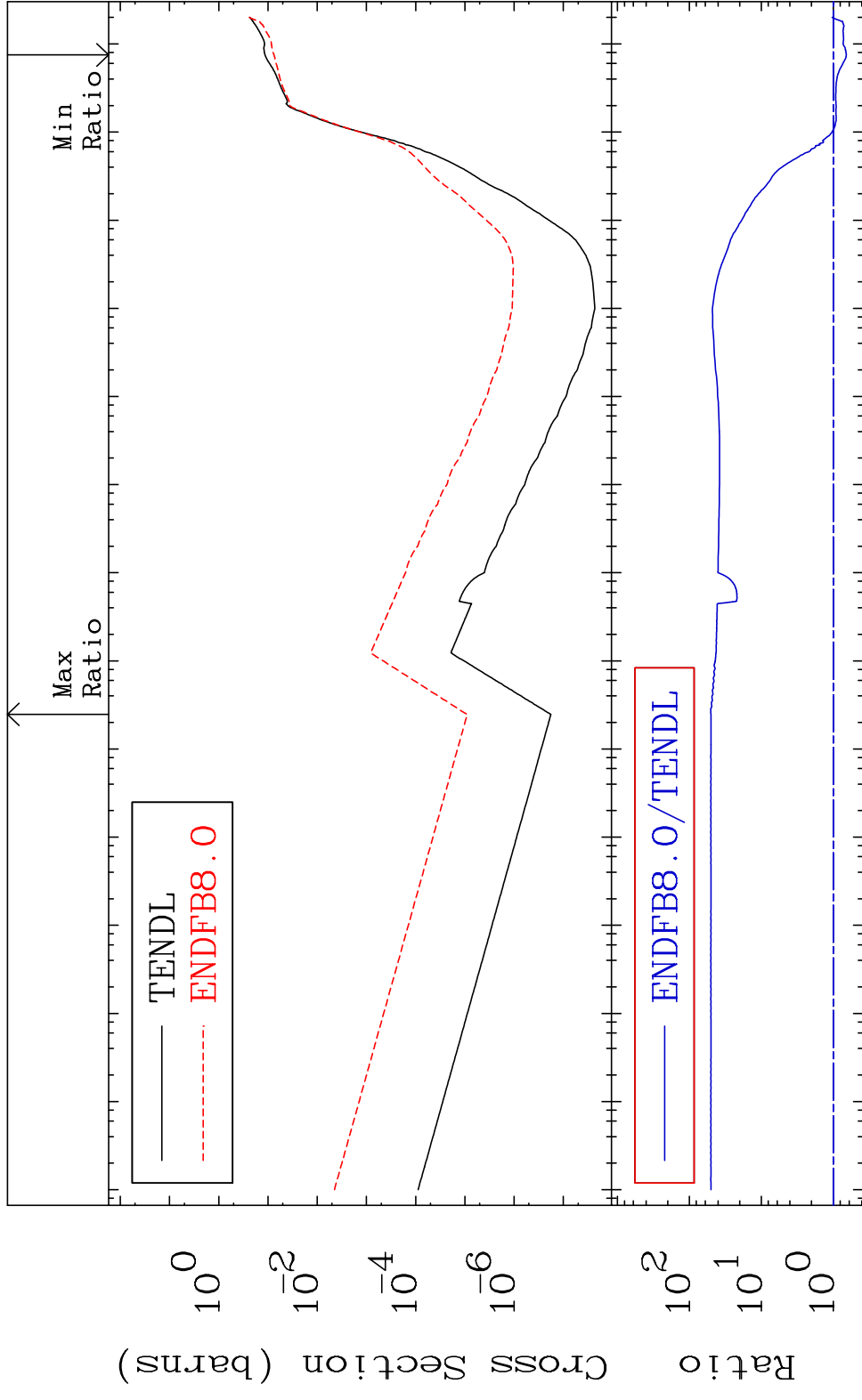
61-Pm-143

MAT 6137

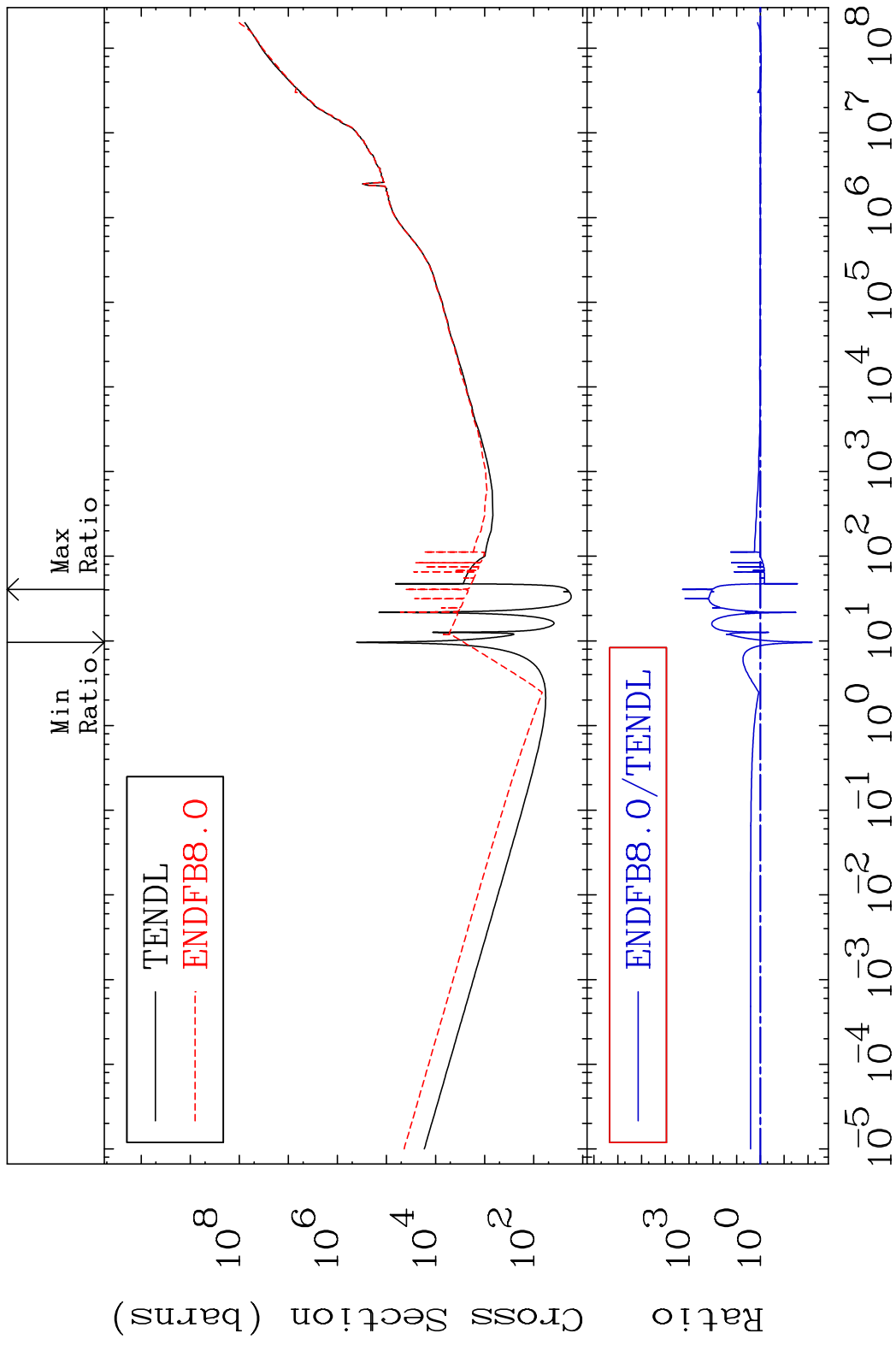
He-4 Production

61-Pm-143

Cross Section -34.32 To 4950. %



MAT 6137 Kerma total (eV-barns) 61-Pm-143
 Cross Section -99.36 To 9999. %



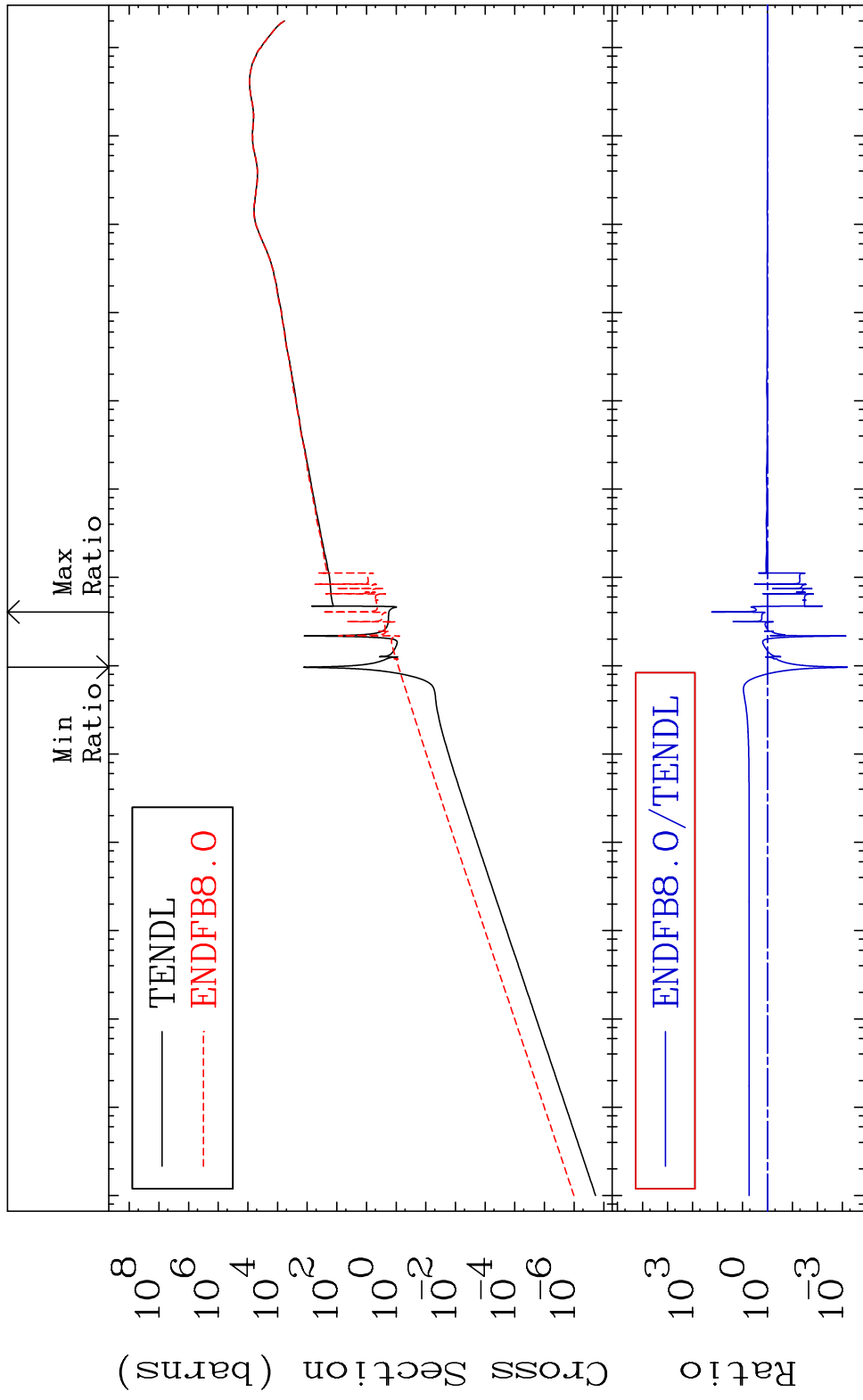
67 Incident Energy (eV) 61-Pm-143

MAT 6137

Kerma elastic

61-Pm-143

Cross Section -99.94 To 9999. %

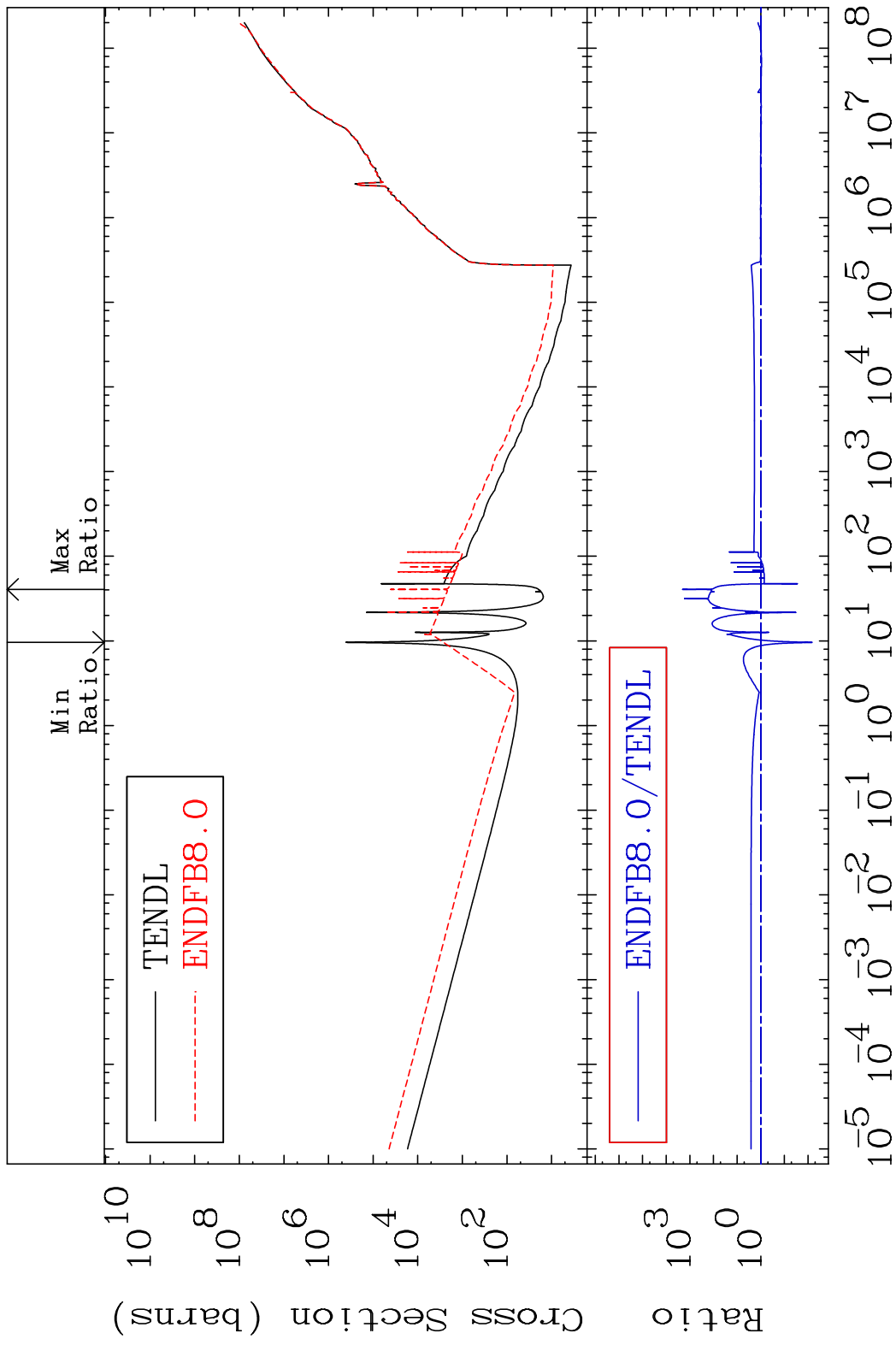


68

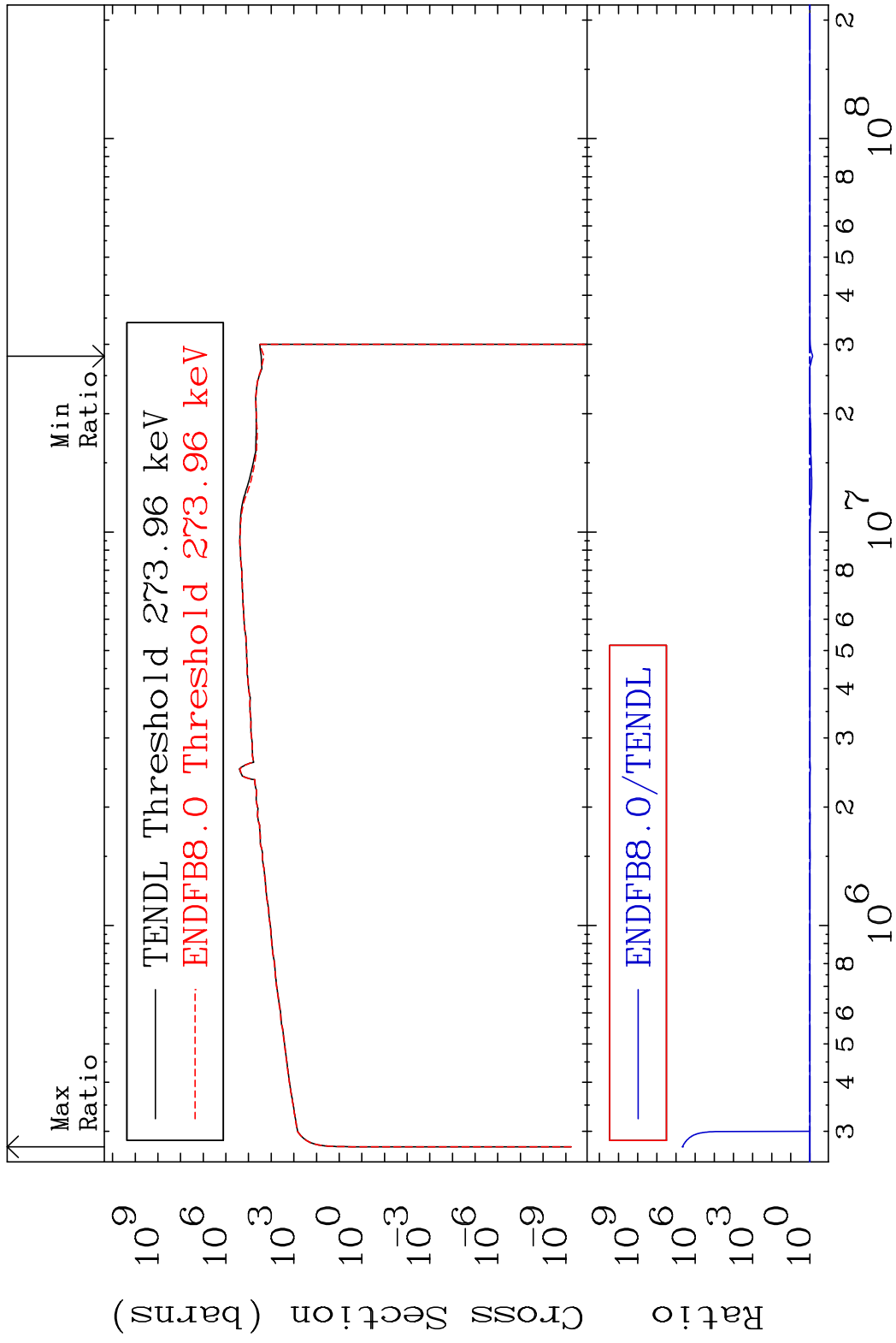
Incident Energy (eV)

61-Pm-143

MAT 6137 Kerma non-elastic (all but mt2) 61-Pm-143
 Cross Section -99.36 To 9999. %

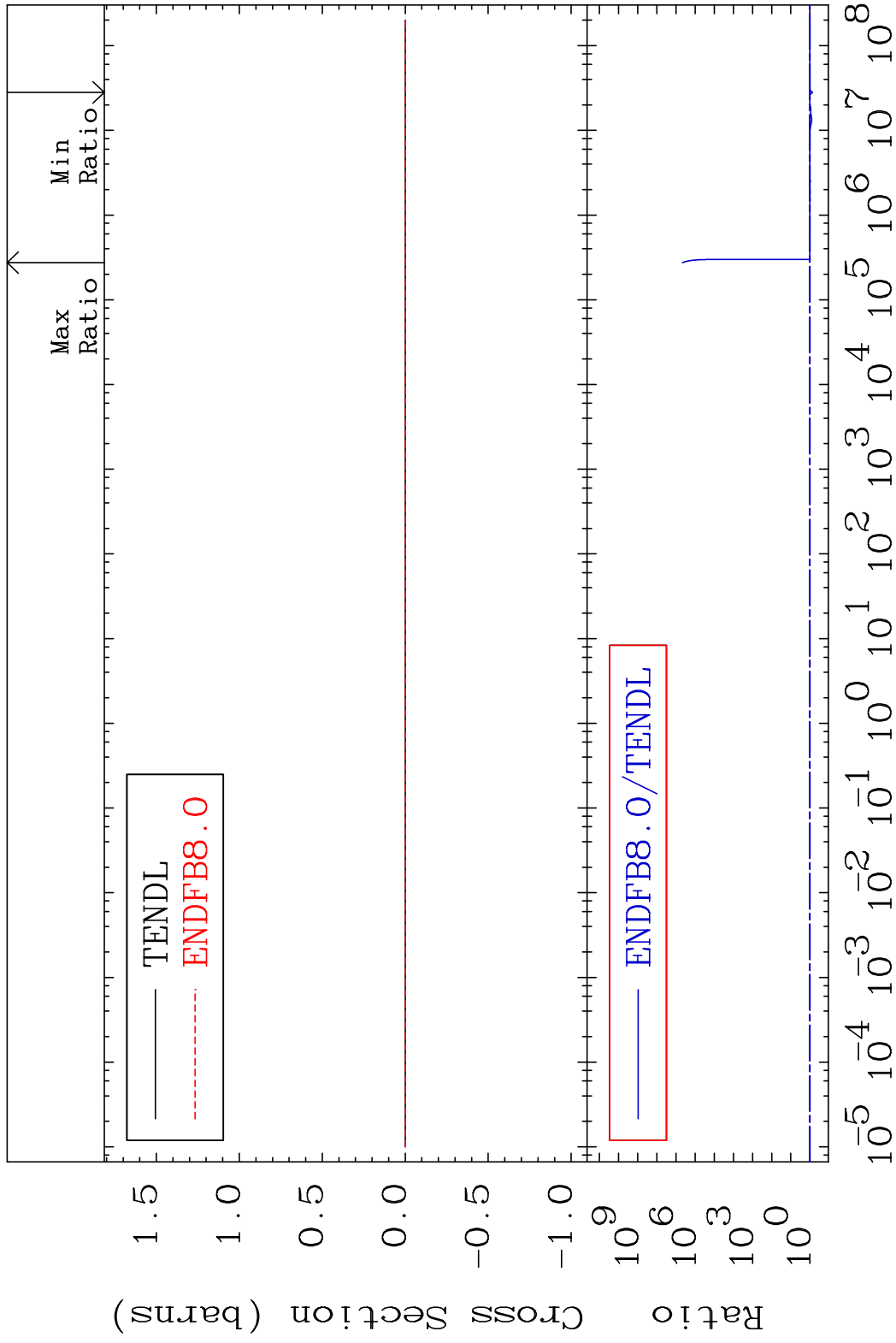


MAT 6137 Kerma inelastic (mt51-91) 61-Pm-143
 Cross Section -26.96 To 9999. %



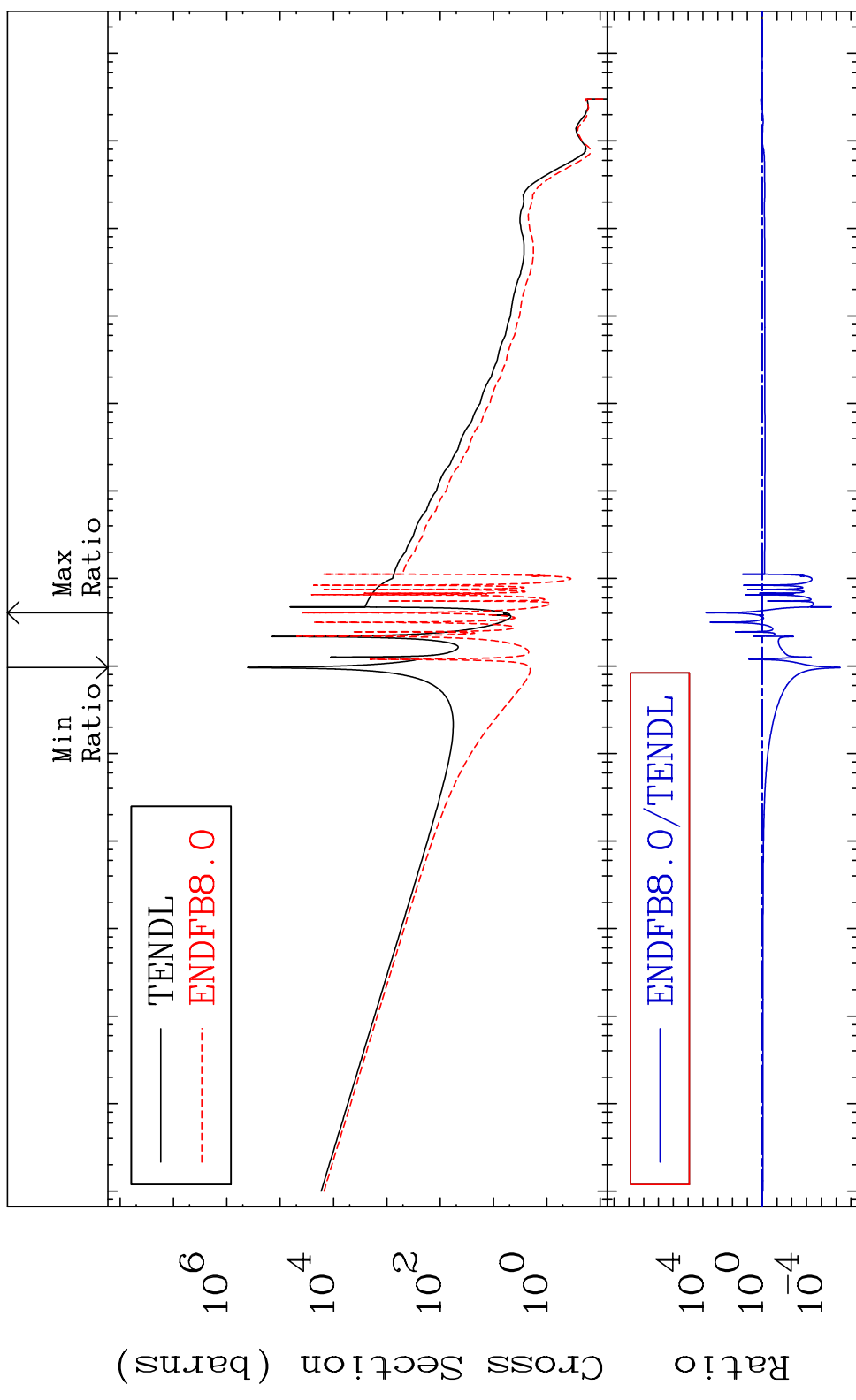
70 Incident Energy (eV) 61-Pm-143

MAT 6137 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-143
 Cross Section -26.96 To 9999. %

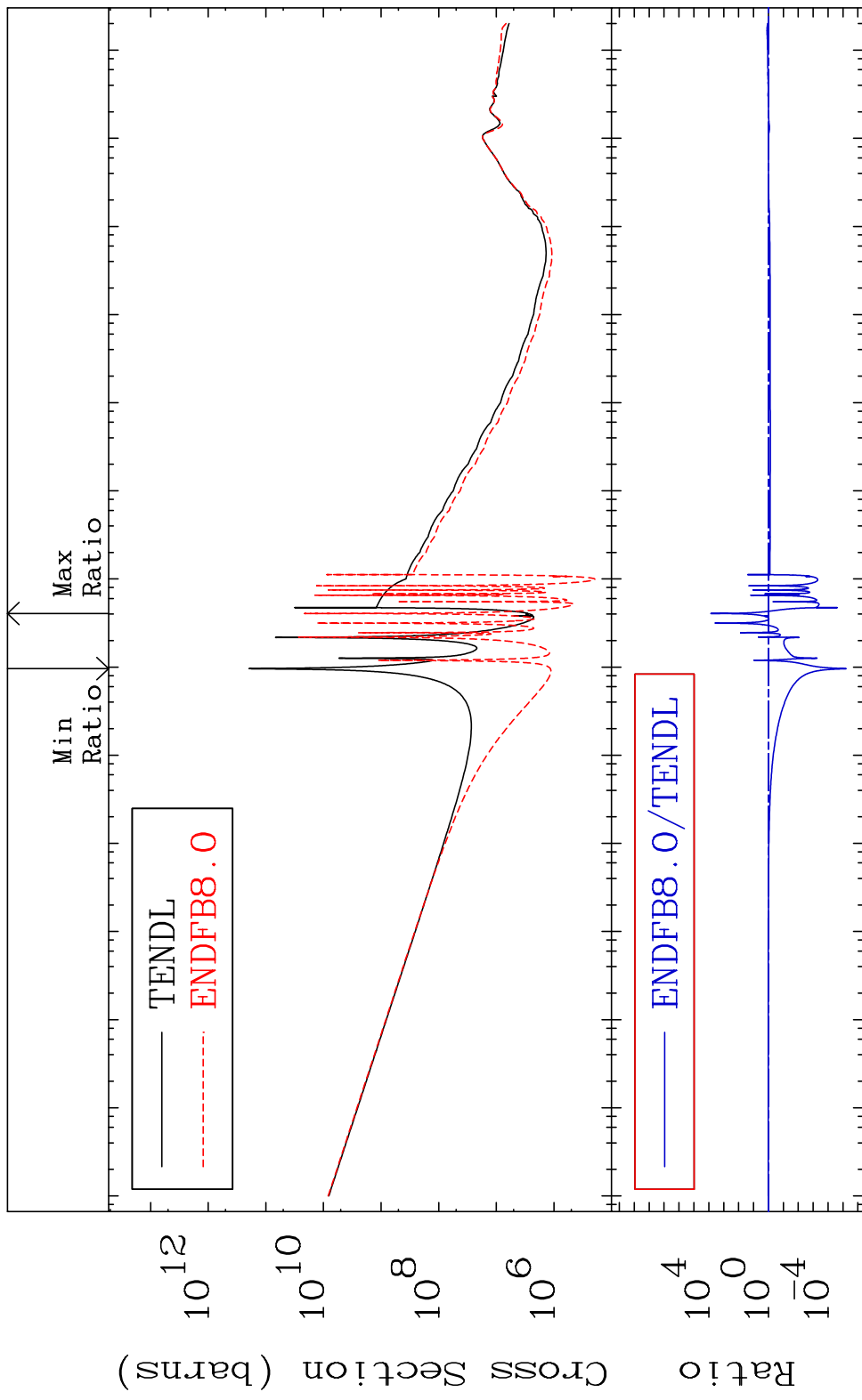


MAT 6137

Kerma capture (mt102) 61-Pm-143
Cross Section -100.0 To 9999. %

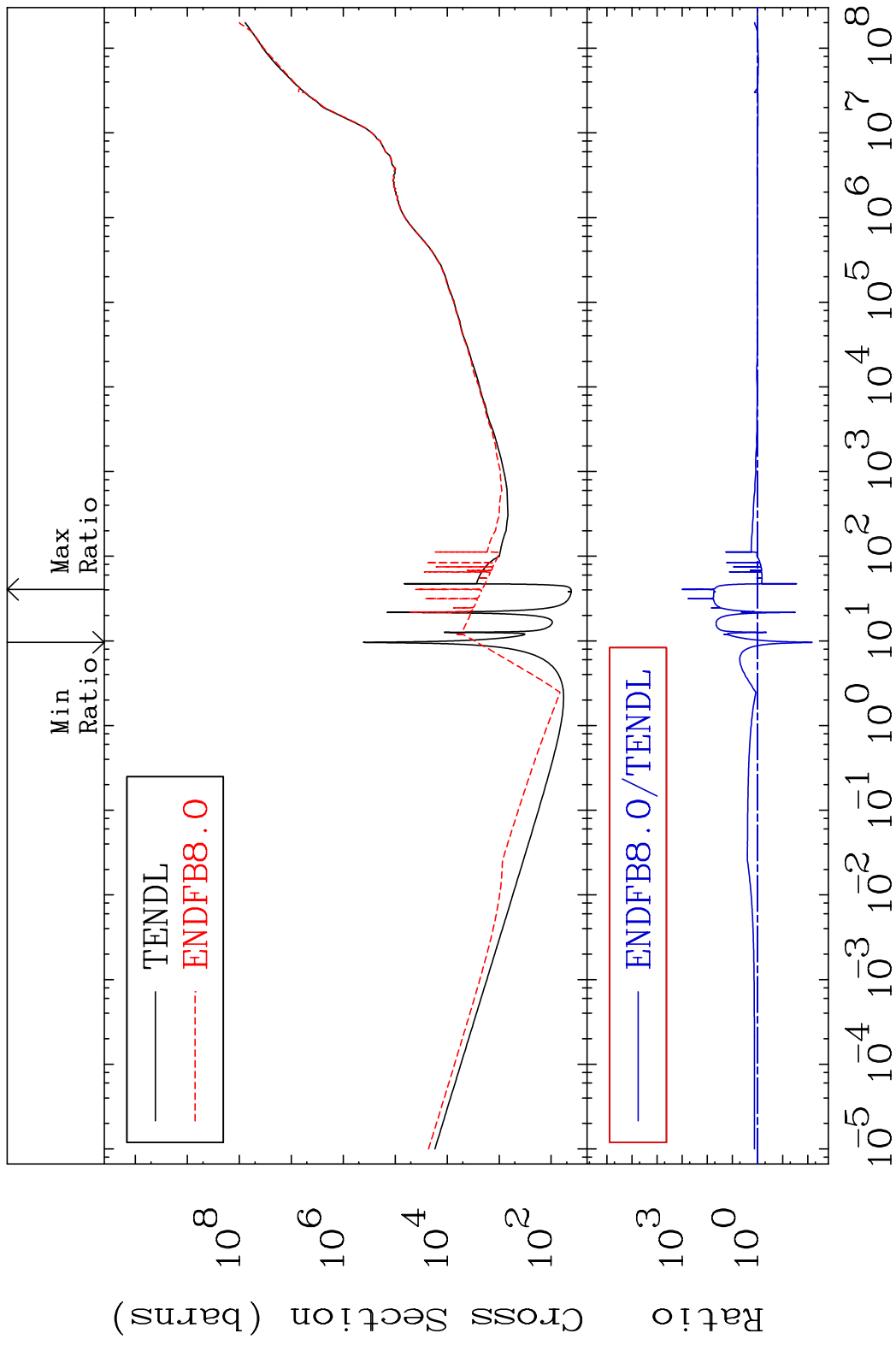


MAT 6137 Total photon (eV-barns) 61-Pm-143
 Cross Section -100.0 To 9999. %

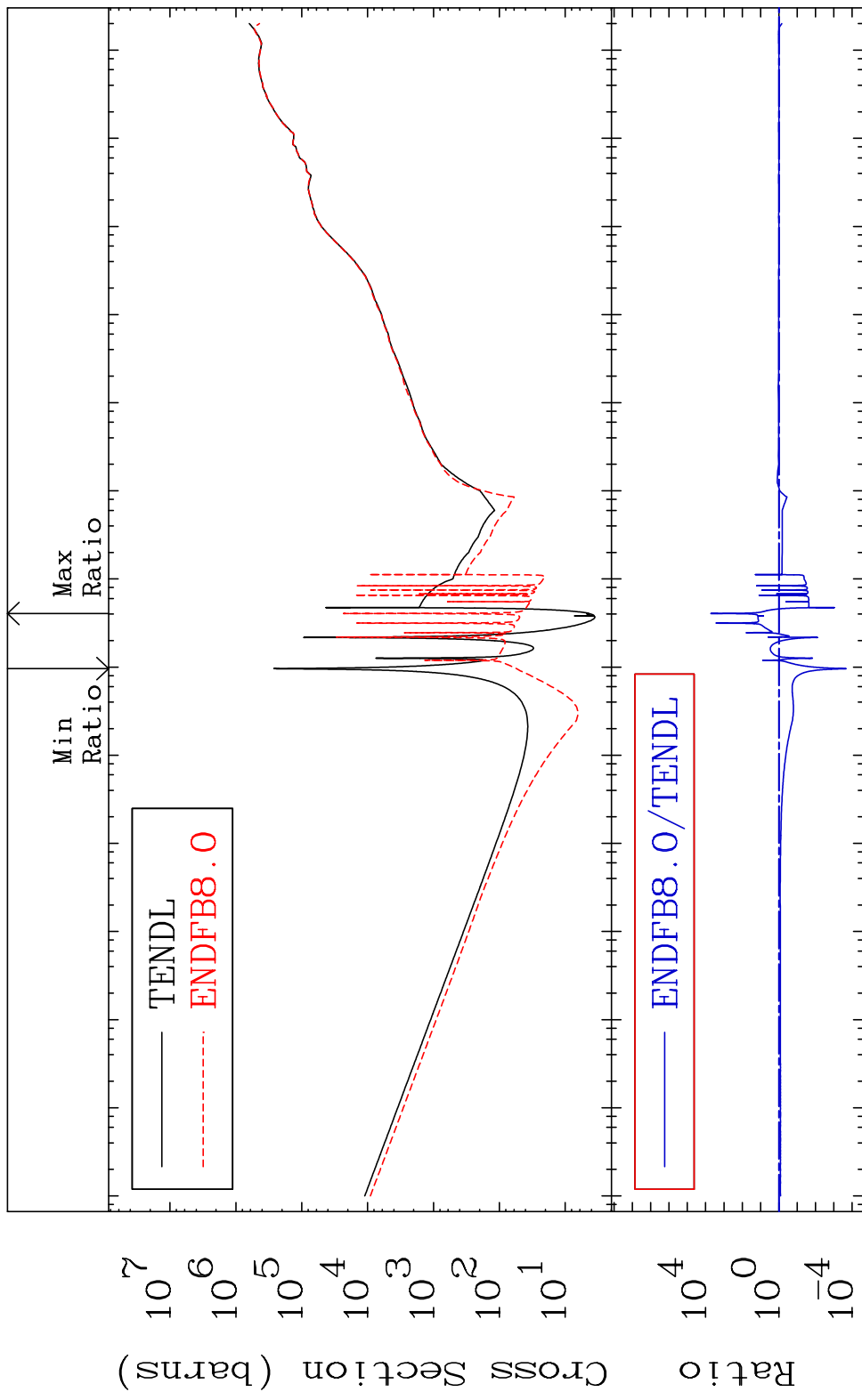


73 Incident Energy (eV) 61-Pm-143

MAT 6137 Total kinematic kerma (high limit) 61-Pm-143
 Cross Section -99.36 To 9999. %



MAT 6137 Dpa total (eV-barns) 61-Pm-143
 Cross Section -99.98 To 9999. %



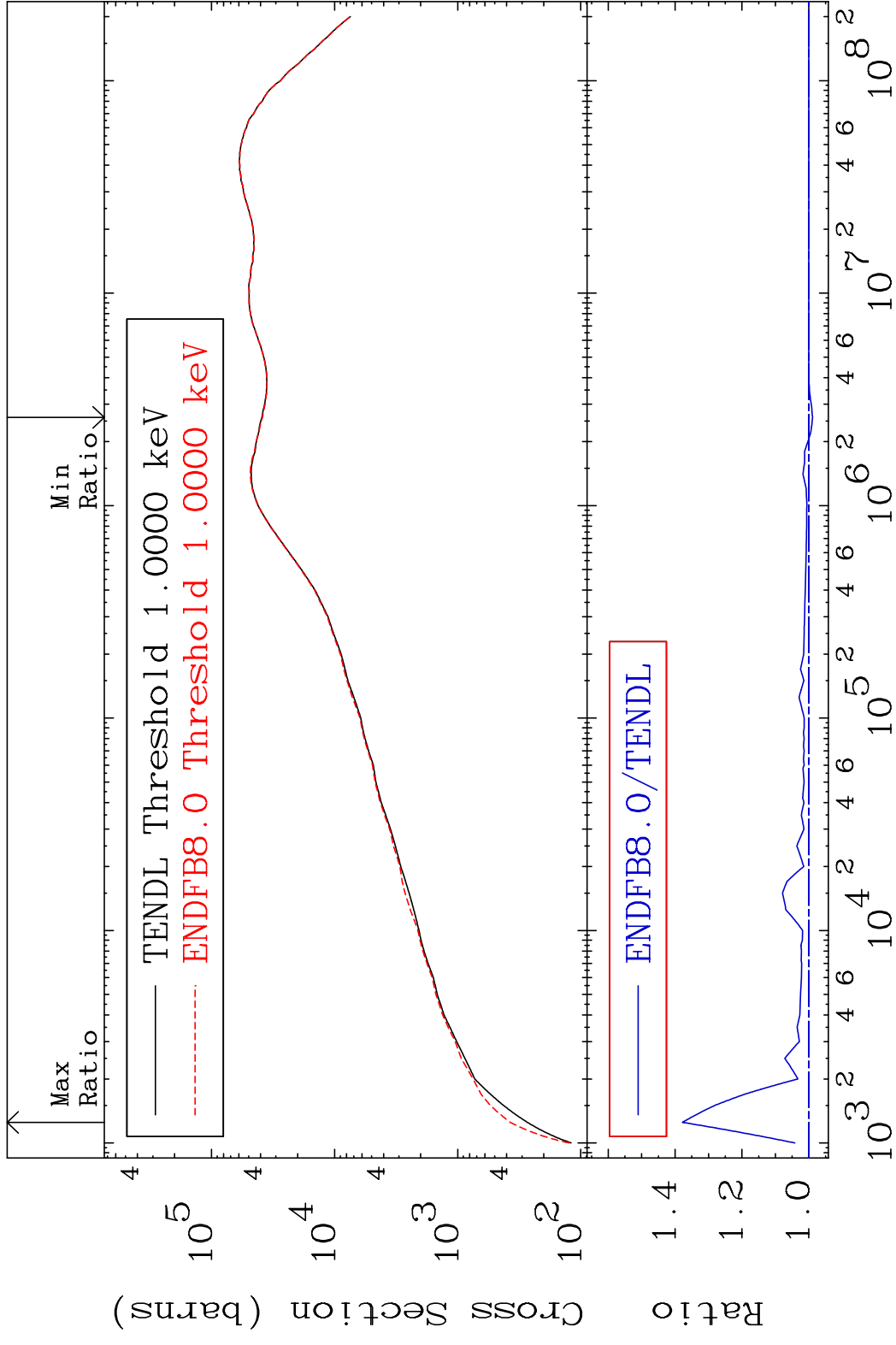
75 Incident Energy (eV) 61-Pm-143

MAT 6137

Dpa elastic (mt2)

61-Pm-143

Cross Section -1.113 To 37.83 %

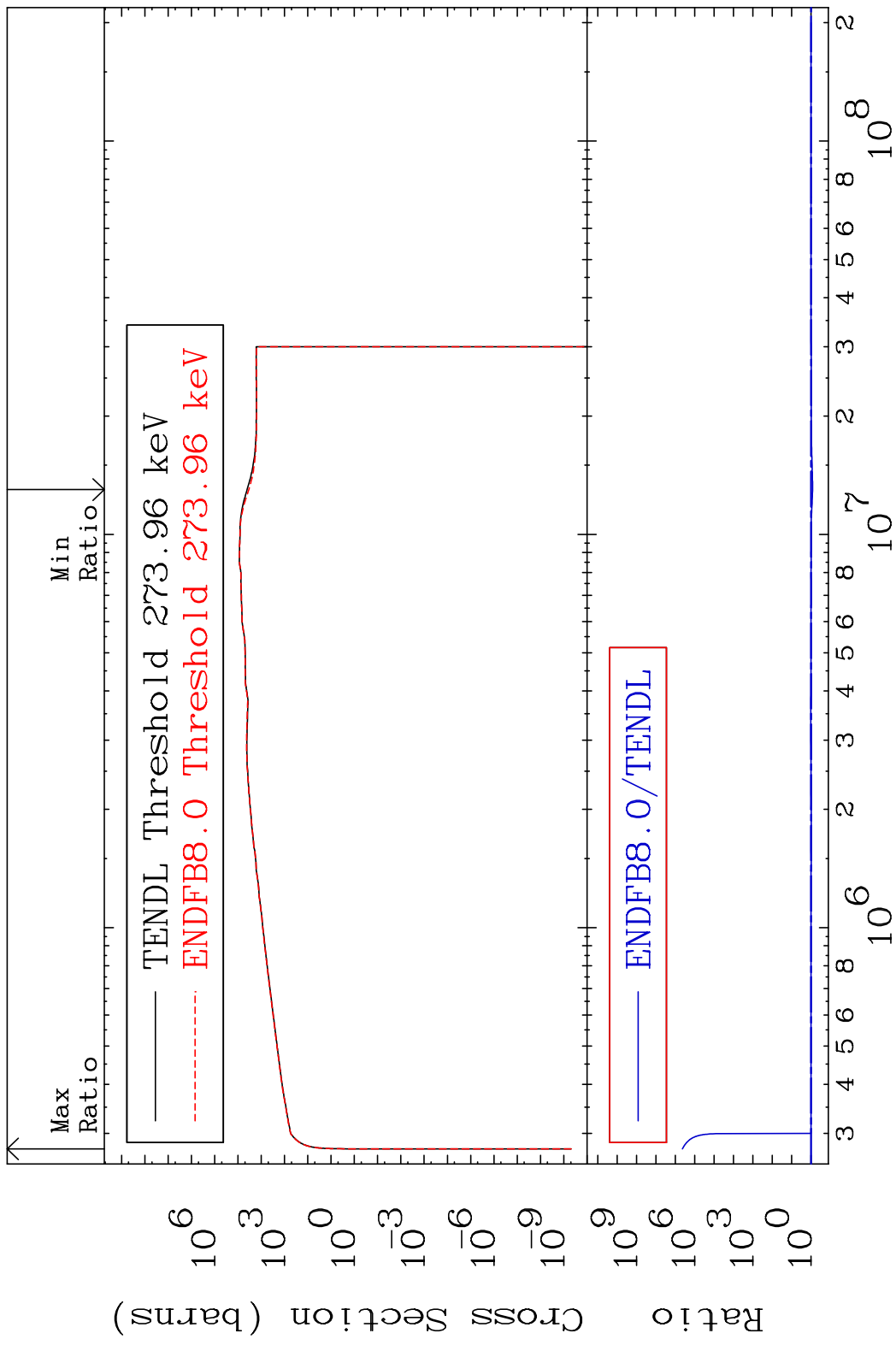


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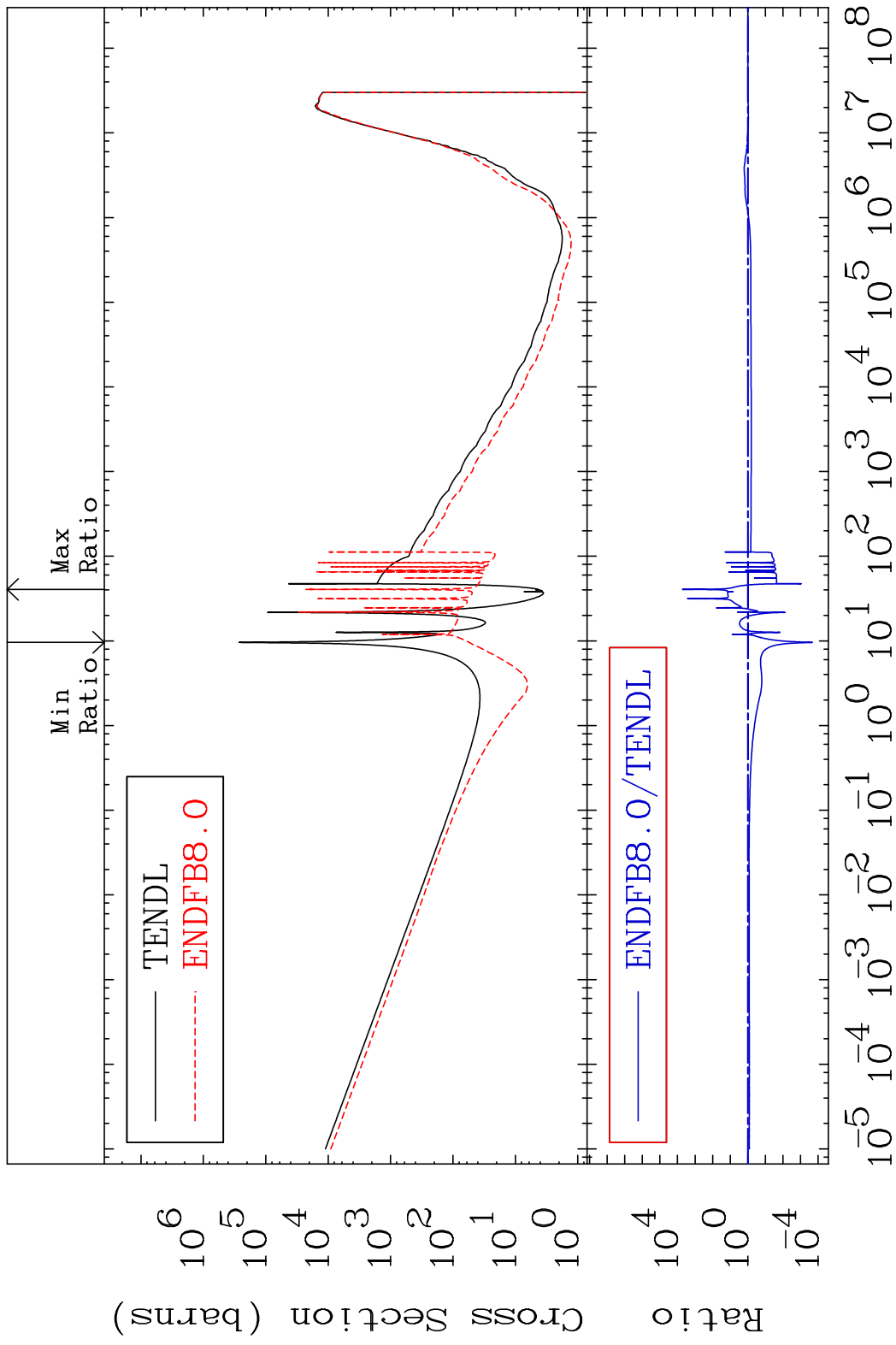
Incident Energy (eV)

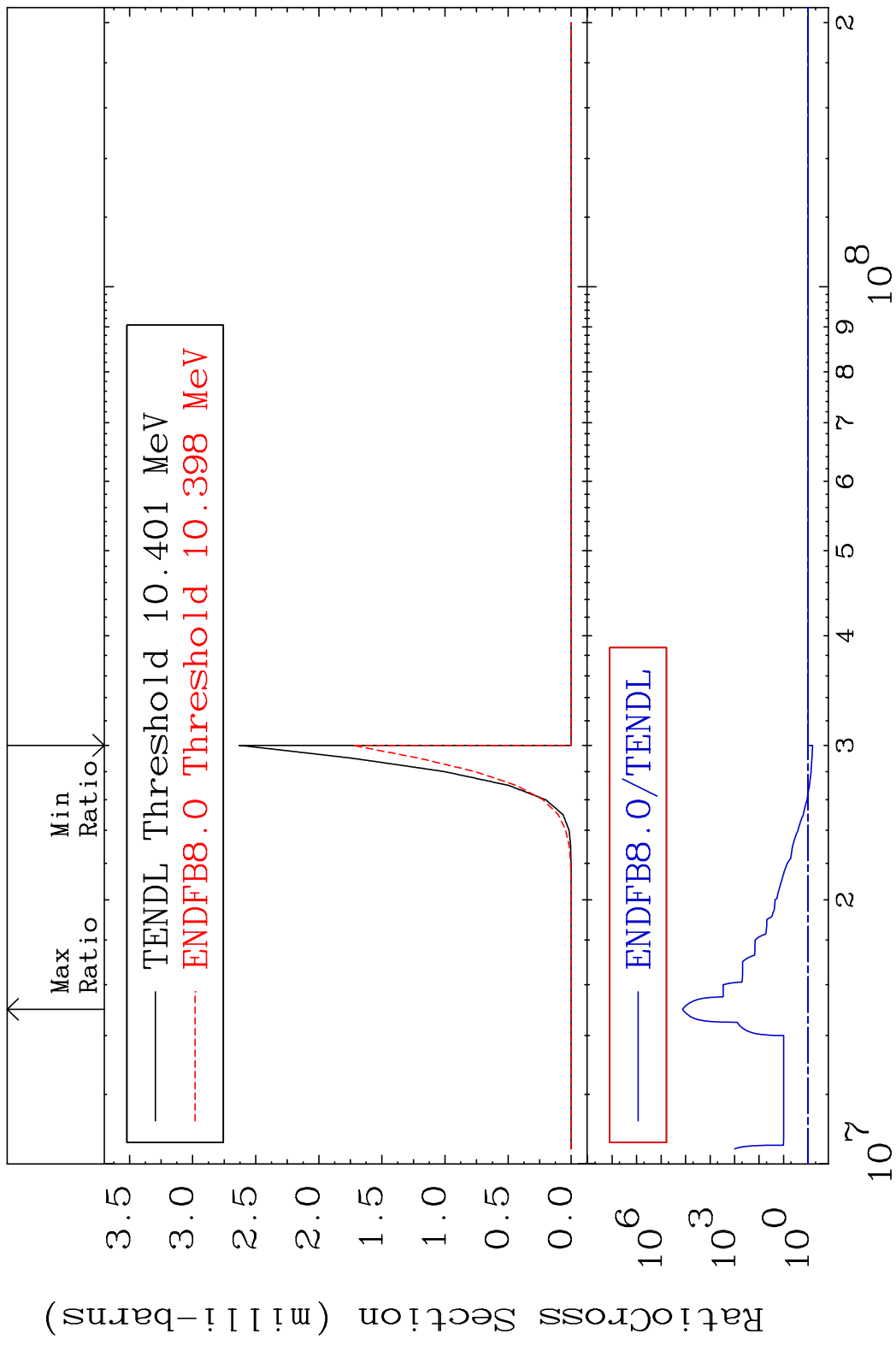
61-Pm-143

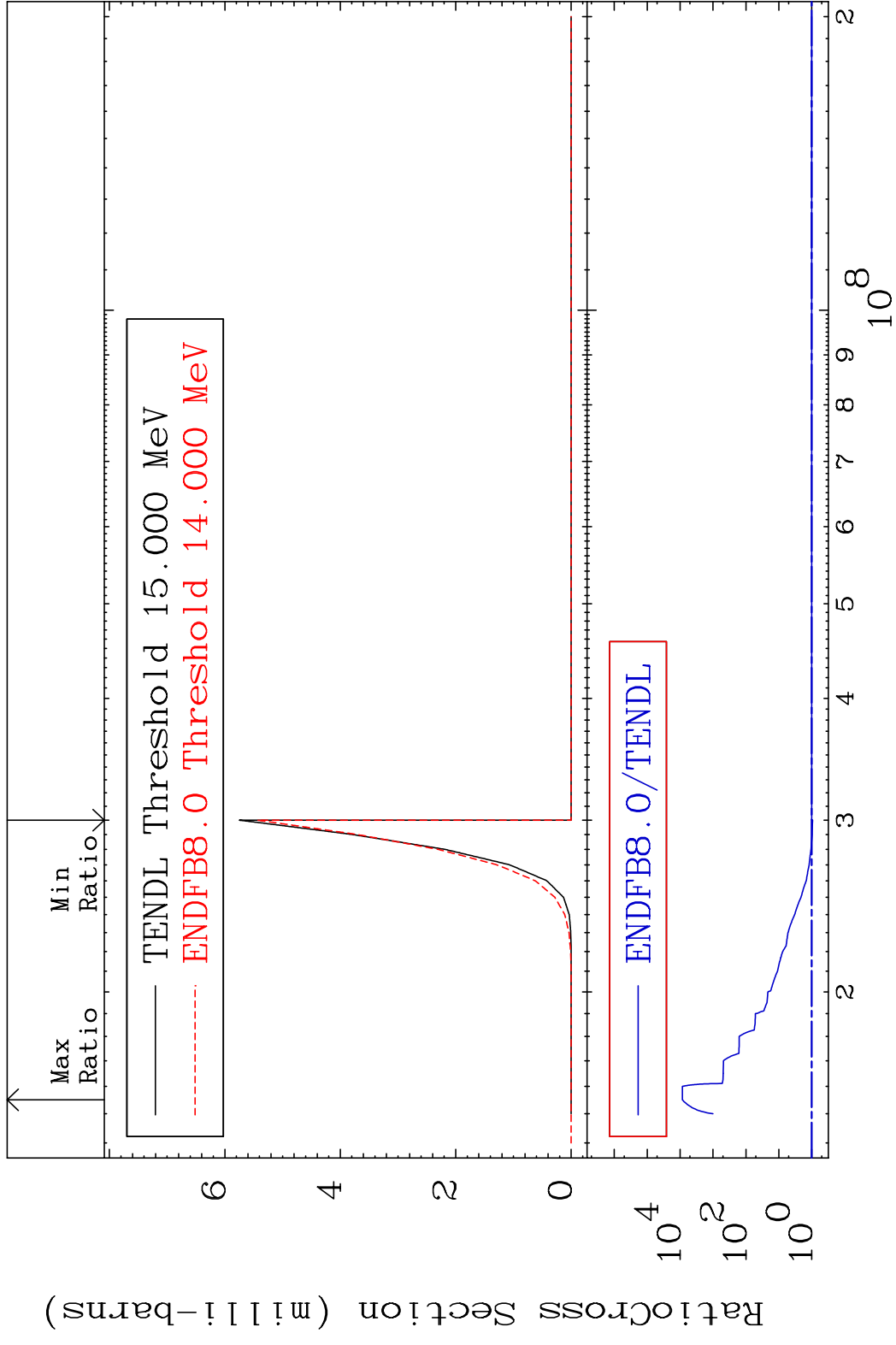
MAT 6137 Dpa inelastic (mt51-91) 61-Pm-143
 Cross Section -15.70 To 9999. %



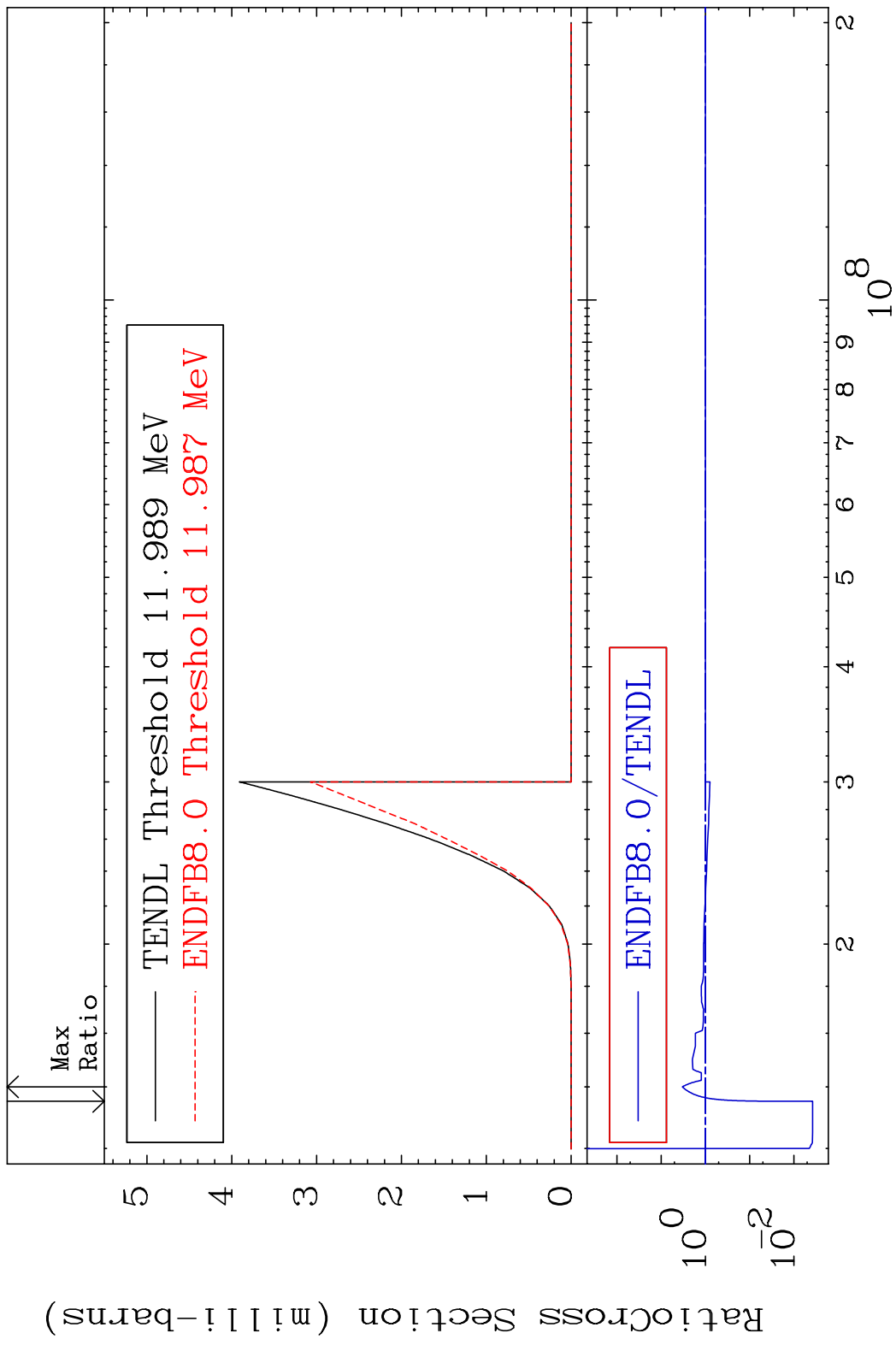
MAT 6137 Dpa disappearance (mt102 -120) 61-Pm-143
 Cross Section -99.98 To 9999. %

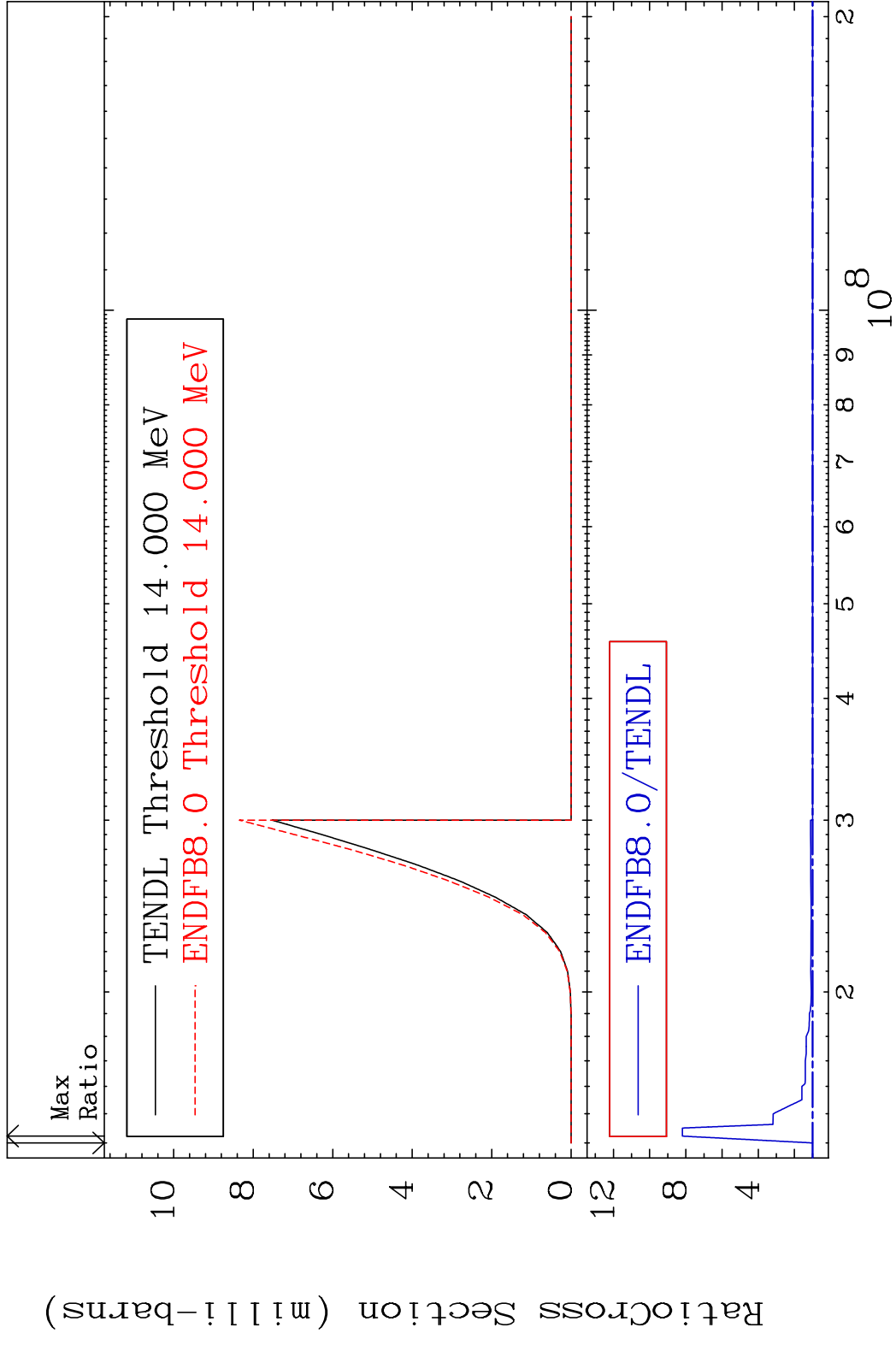


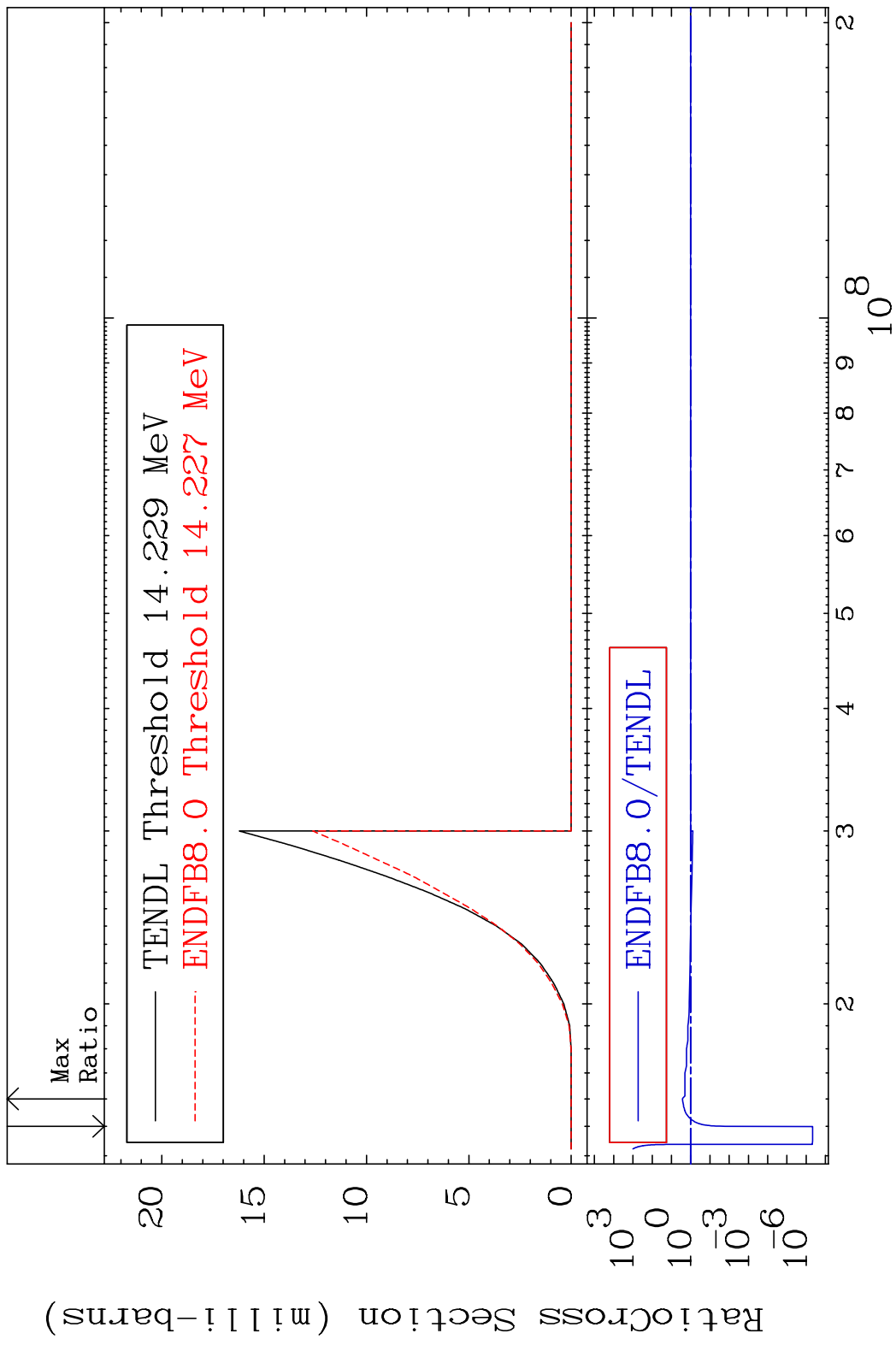


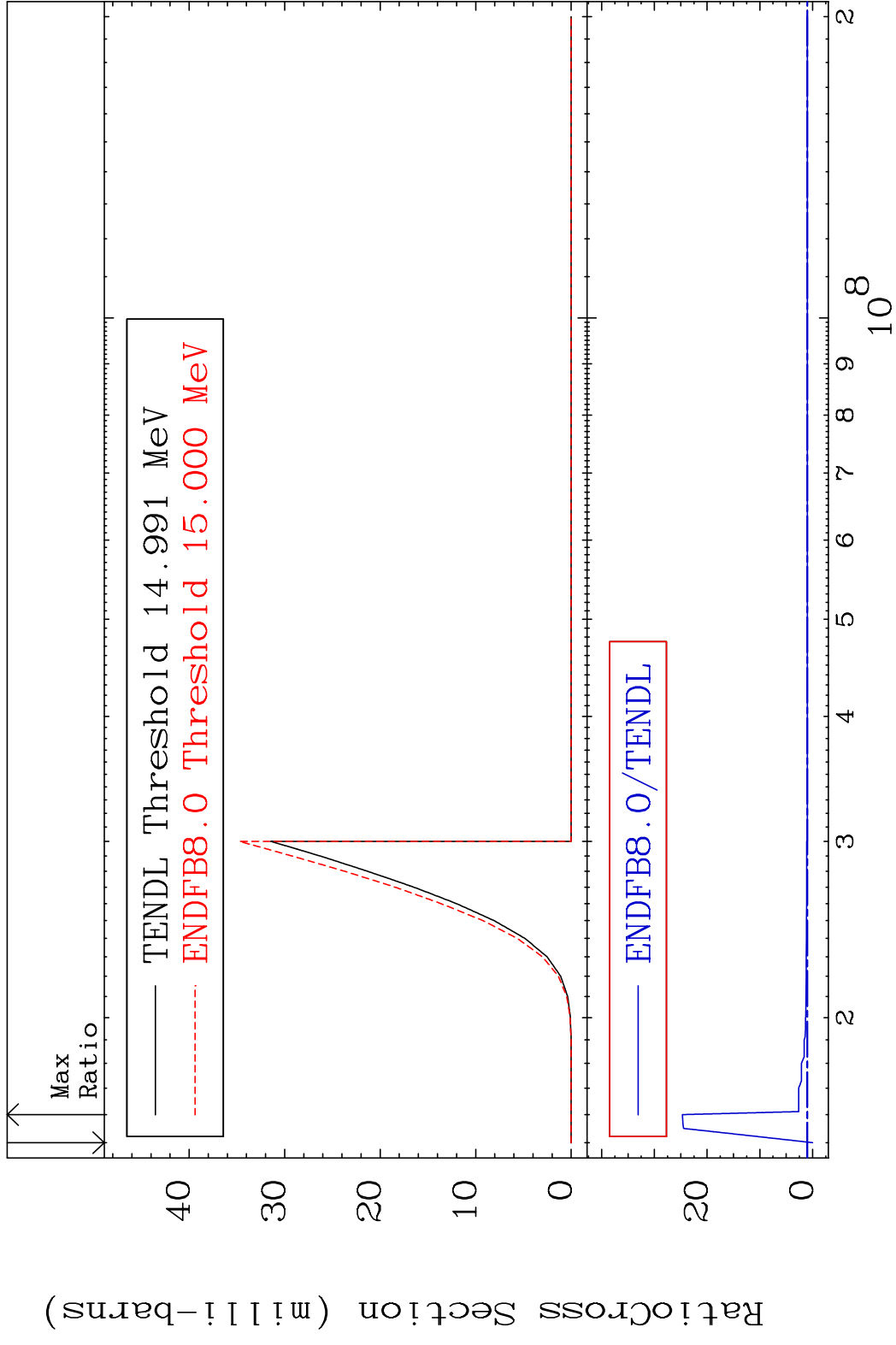


MAT 6137 (n, n') d:60-Nd-141g 61-Pm-143
 Radionuclide Production Cross Section 98.62 dth 231.1 %









MAT 6137 (n, t):60-Nd-141g 61-Pm-143
 Radionuclide Production Cross Section 36.65 dpo 13.54 %

