

Program Complot
(Version 2021-1)

by

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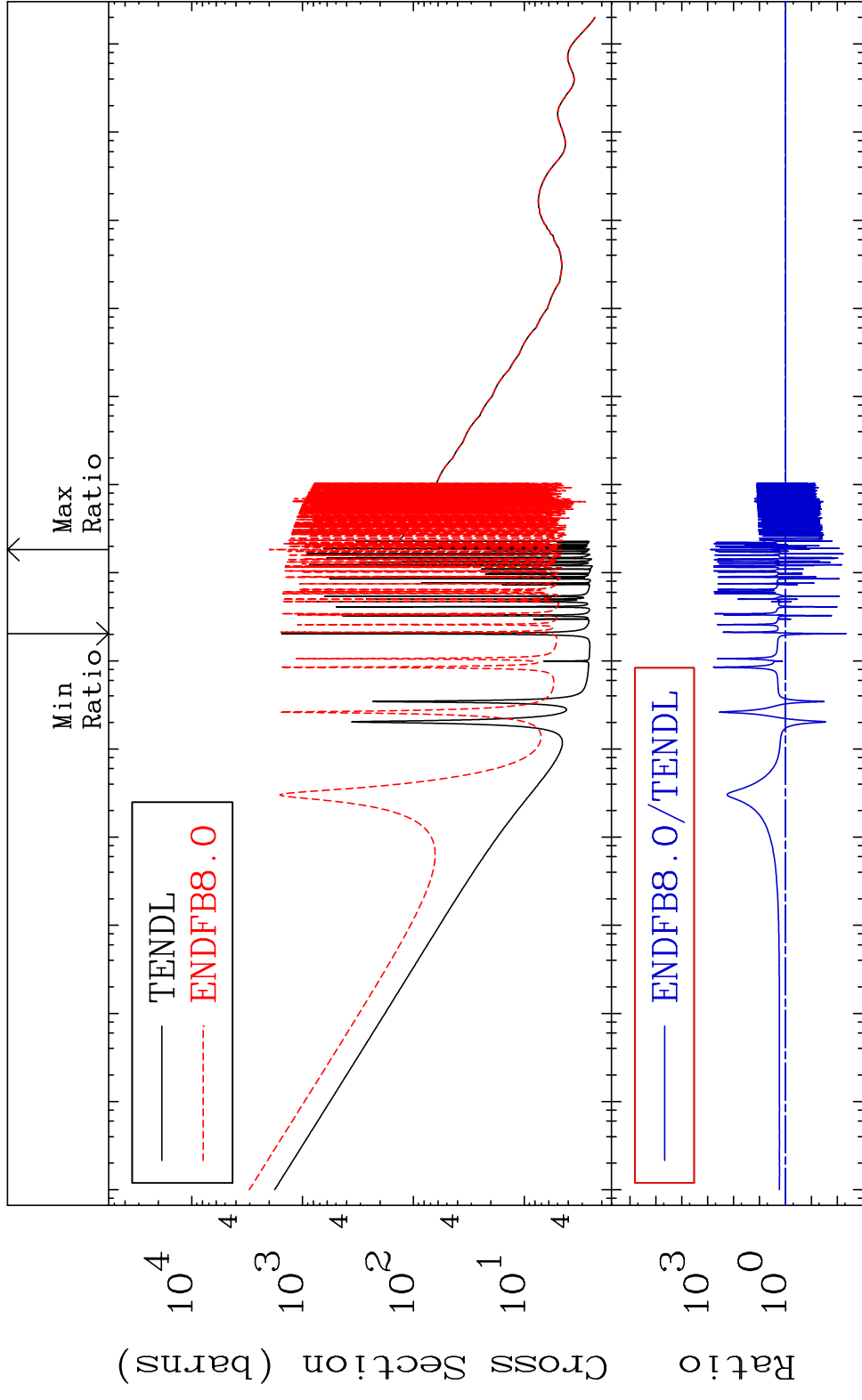
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6143

Total Cross Section -99.55 To 9999. %

61-Pm-145



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

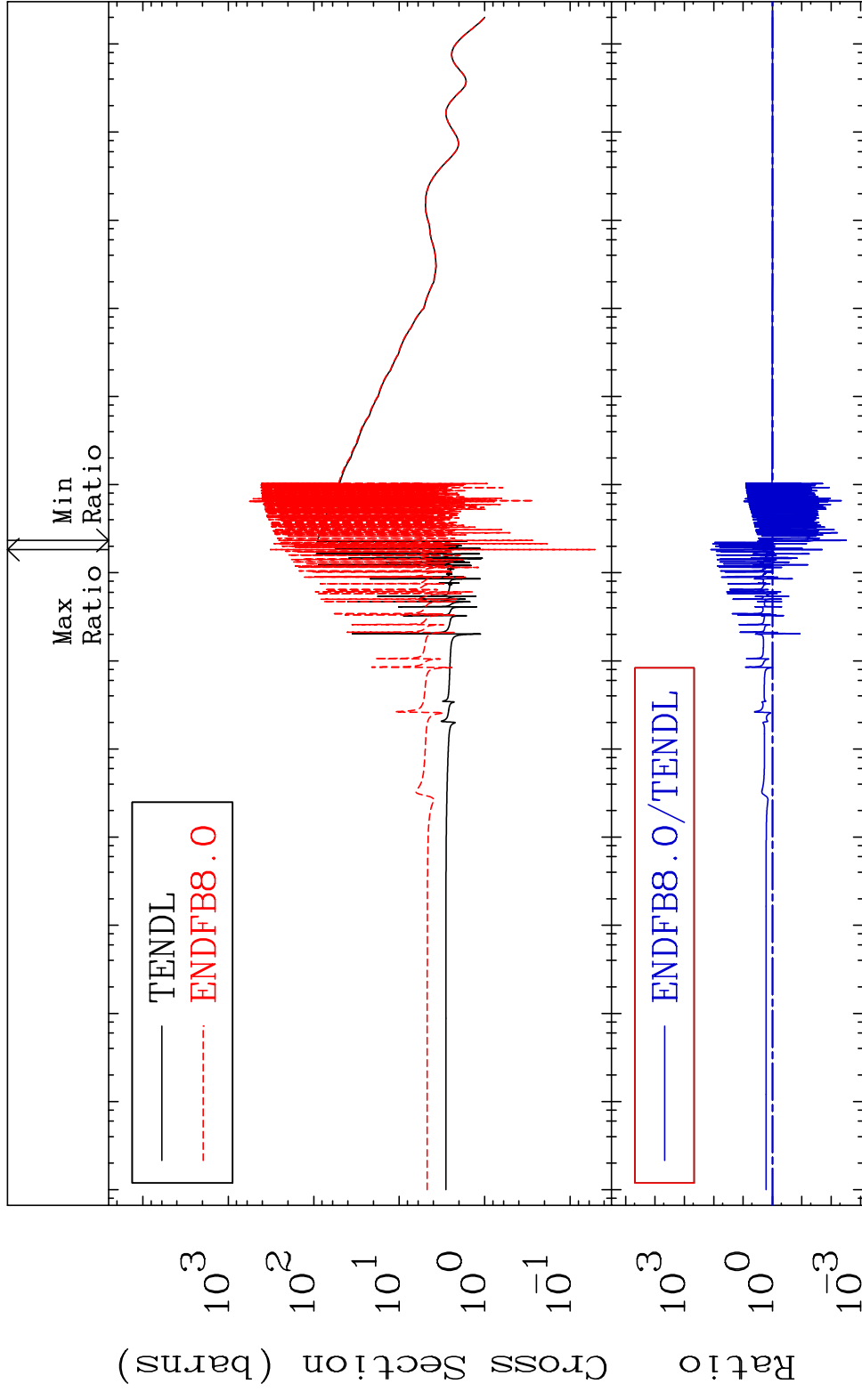
Ratio Incident Energy (eV) 61-Pm-145

MAT 6143

Elastic

61-Pm-145

Cross Section -99.69 To 9999. %



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

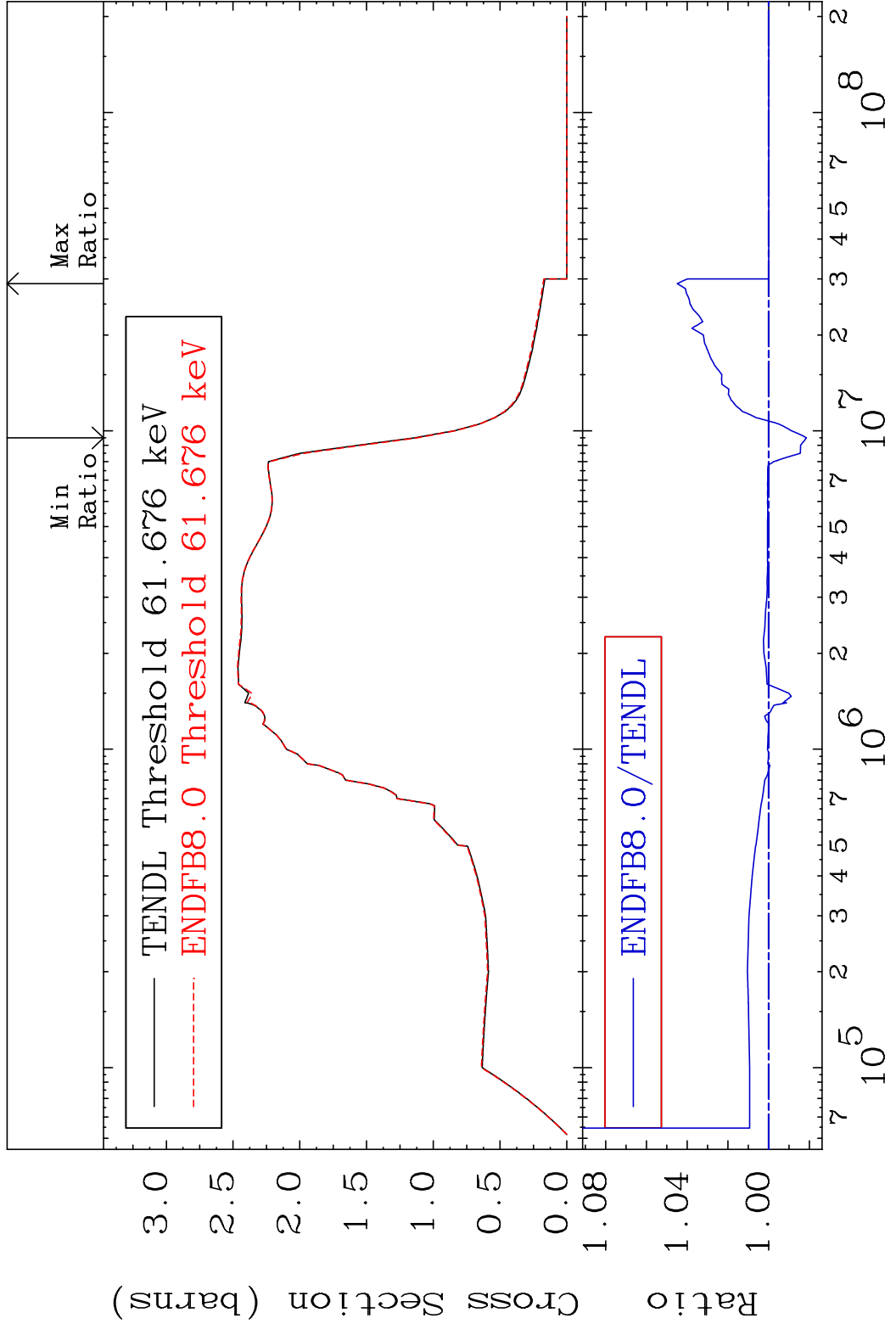
2

Incident Energy (eV)

61-Pm-145

MAT 6143

Inelastic
Cross Section -1.849 To 4.494 %
61-Pm-145

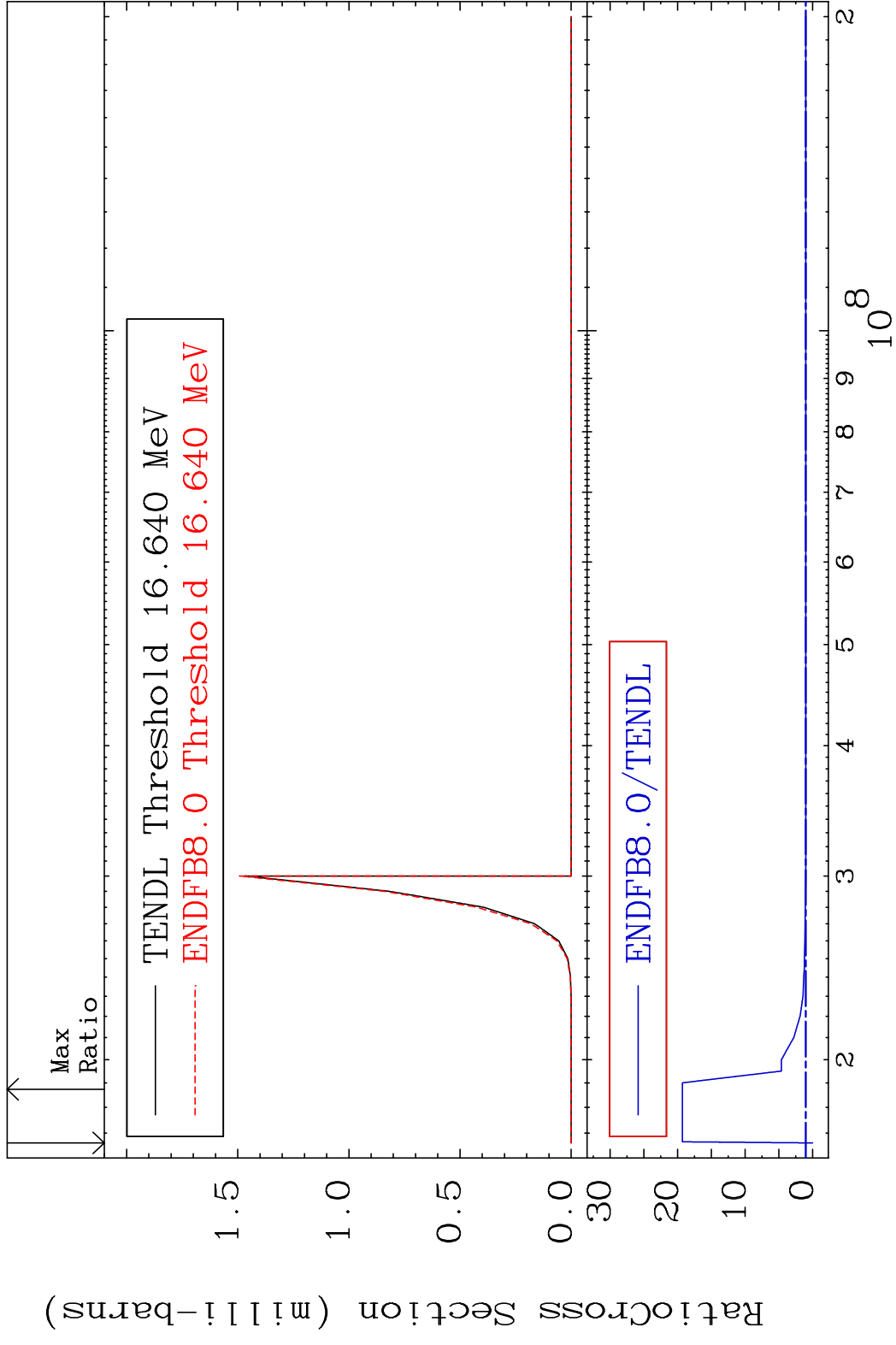


3

Incident Energy (eV)

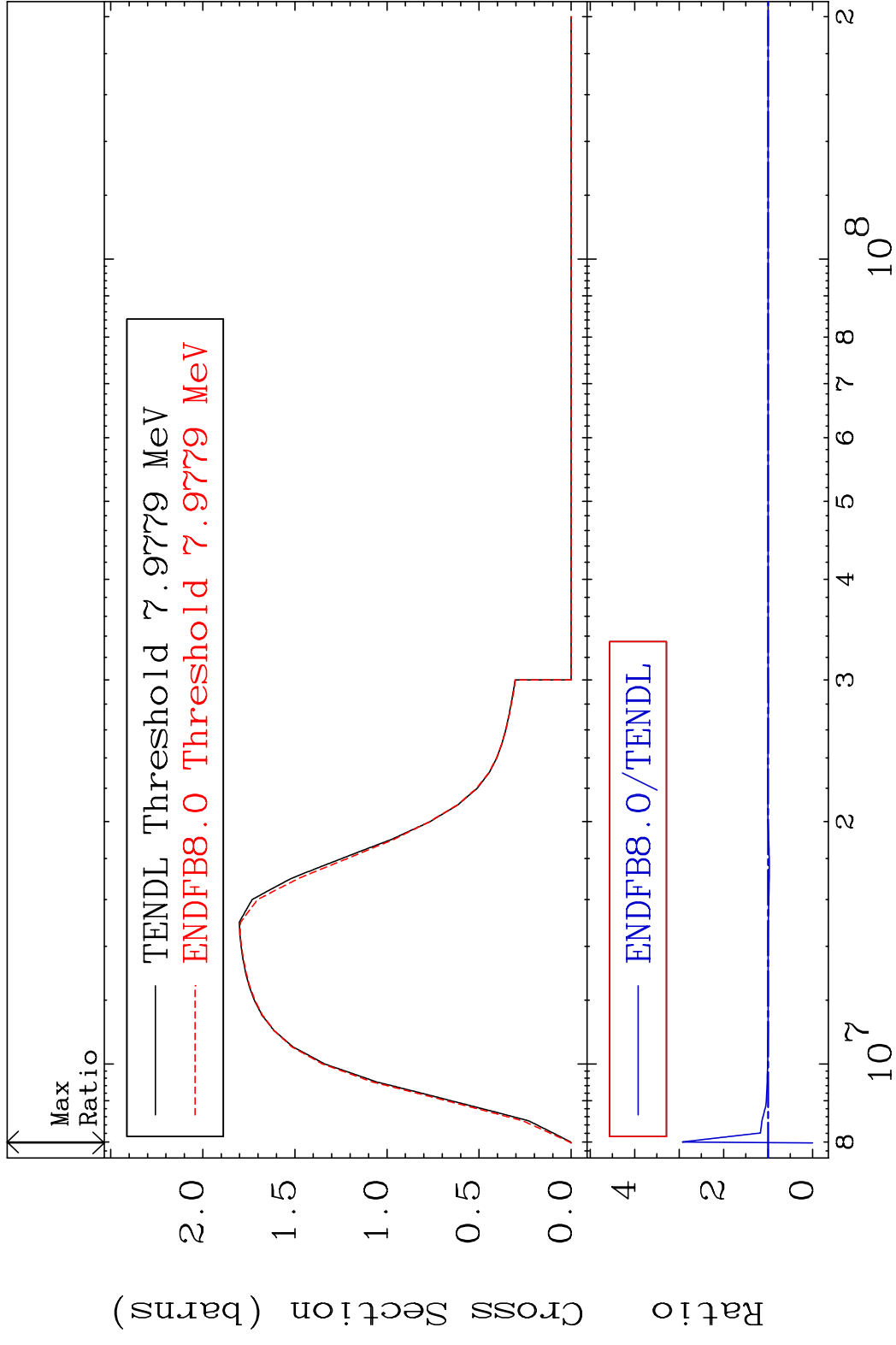
61-Pm-145

MAT 6143 (n,2n) d 61-Pm-145
 Cross Section -100.0 To 1829. %



4 Incident Energy (eV) 61-Pm-145

MAT 6143 (n,2n) 61-Pm-145
 Cross Section -100.0 To 192.8 %



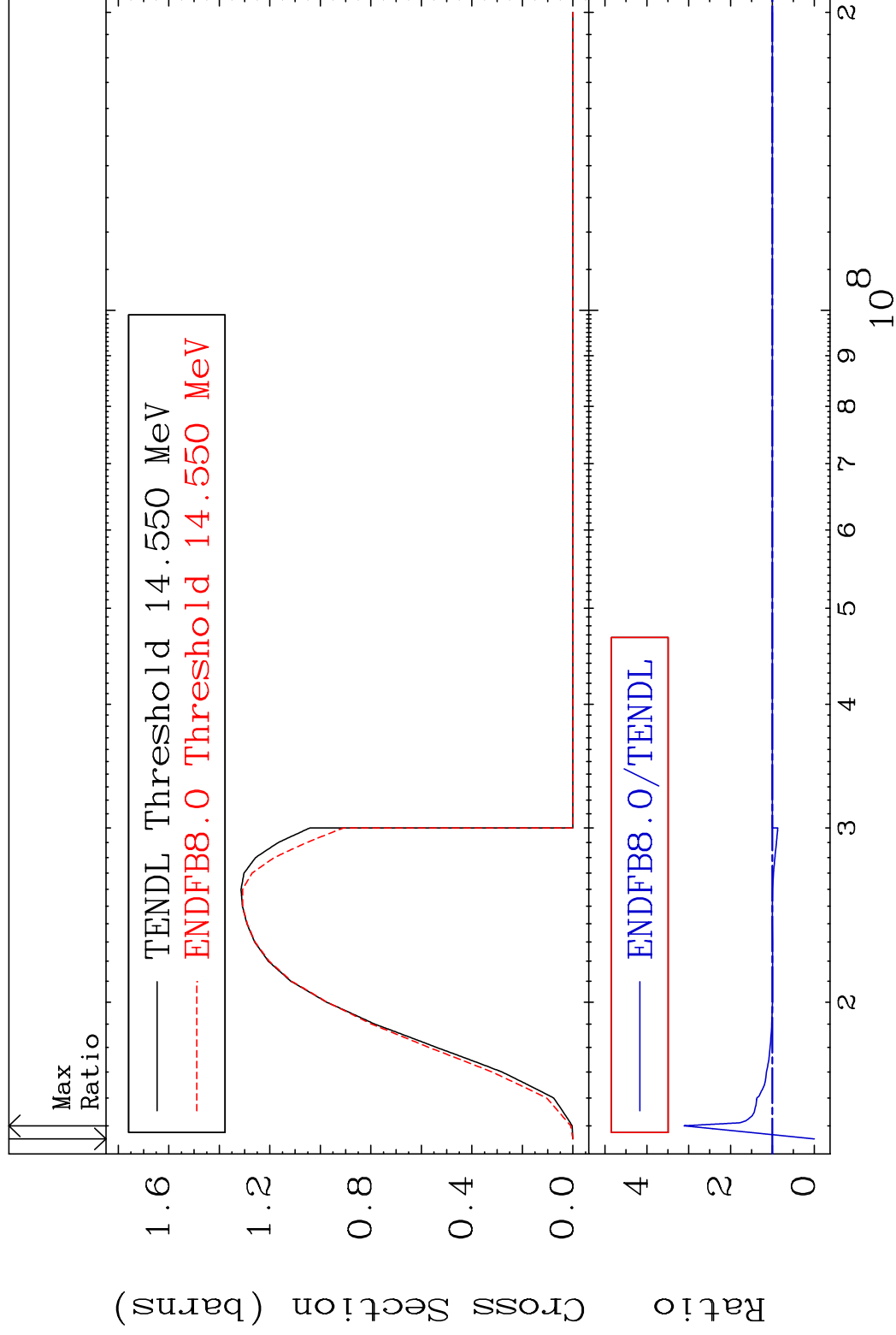
5 Incident Energy (eV) 61-Pm-145

MAT 6143

(n,3n)

61-Pm-145

Cross Section -100.0 To 211.2 %



6

Incident Energy (eV)

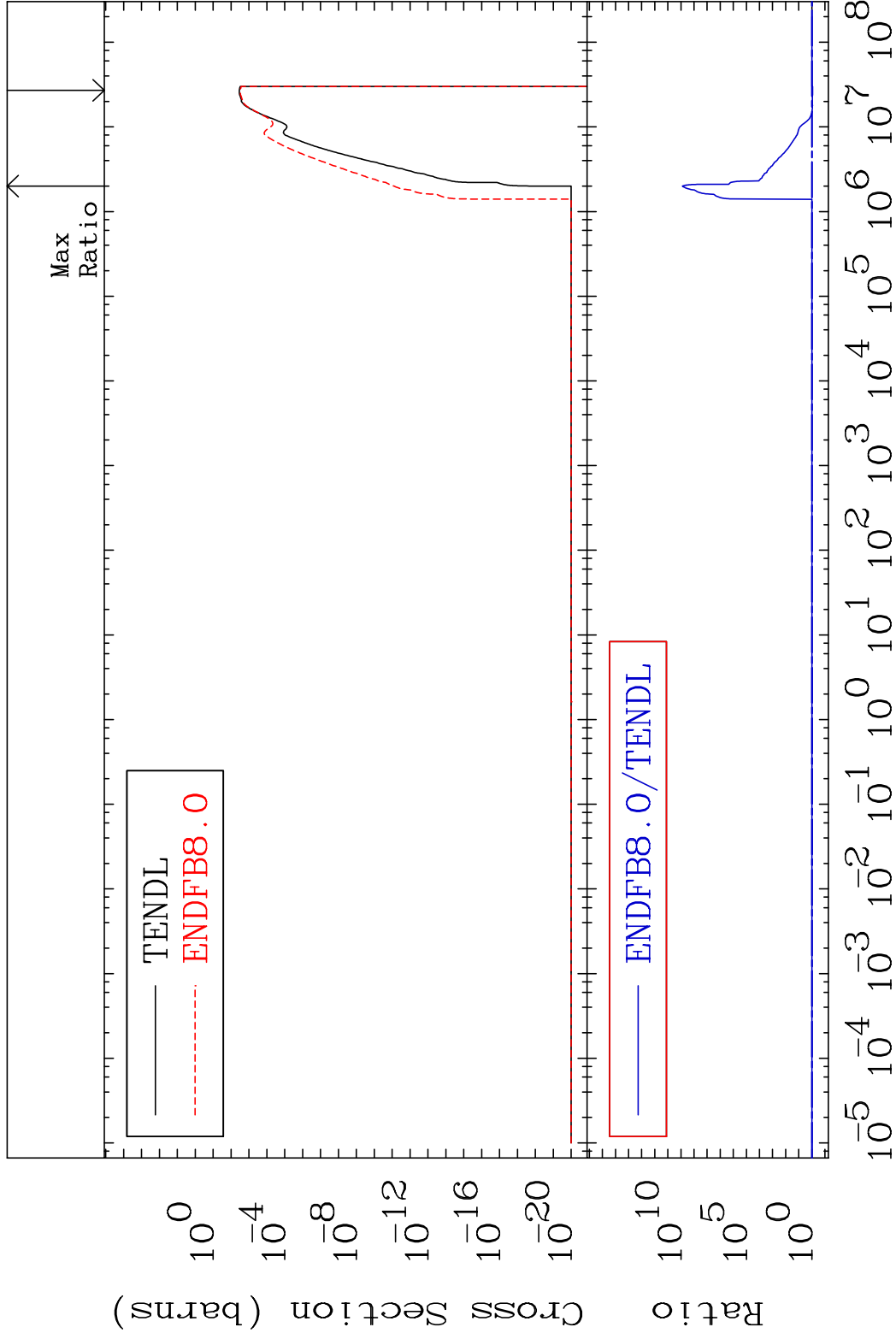
61-Pm-145

MAT 6143

(n, n') α

61-Pm-145

Cross Section -11.99 To 9999. %

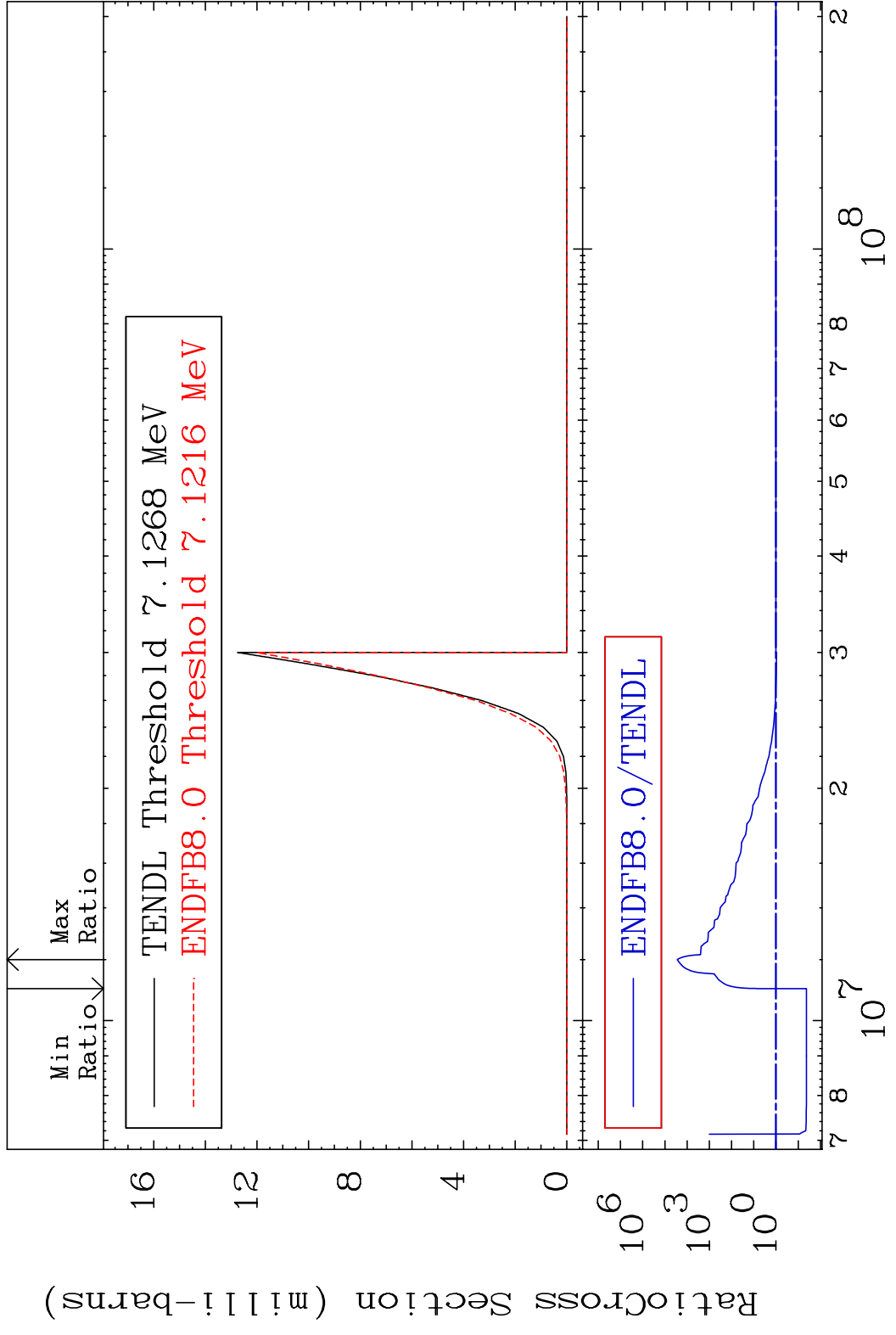


7

Incident Energy (eV)

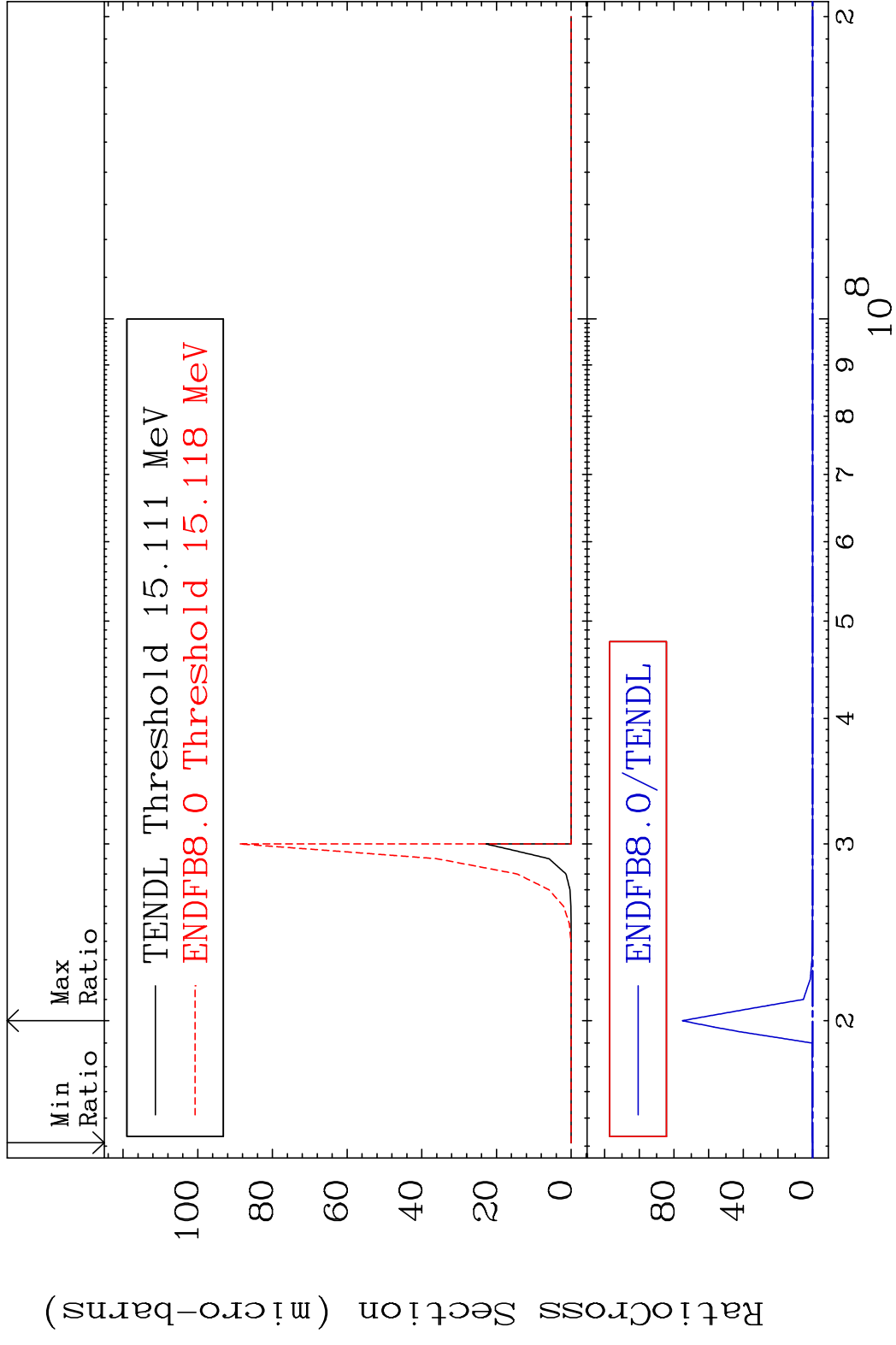
61-Pm-145

MAT 6143 (n,2n) α 61-Pm-145
 Cross Section -95.73 To 9999. %



8 Incident Energy (eV) 61-Pm-145

MAT 6143 (n,3n) α 61-Pm-145
 Cross Section -100.0 To 9999. %

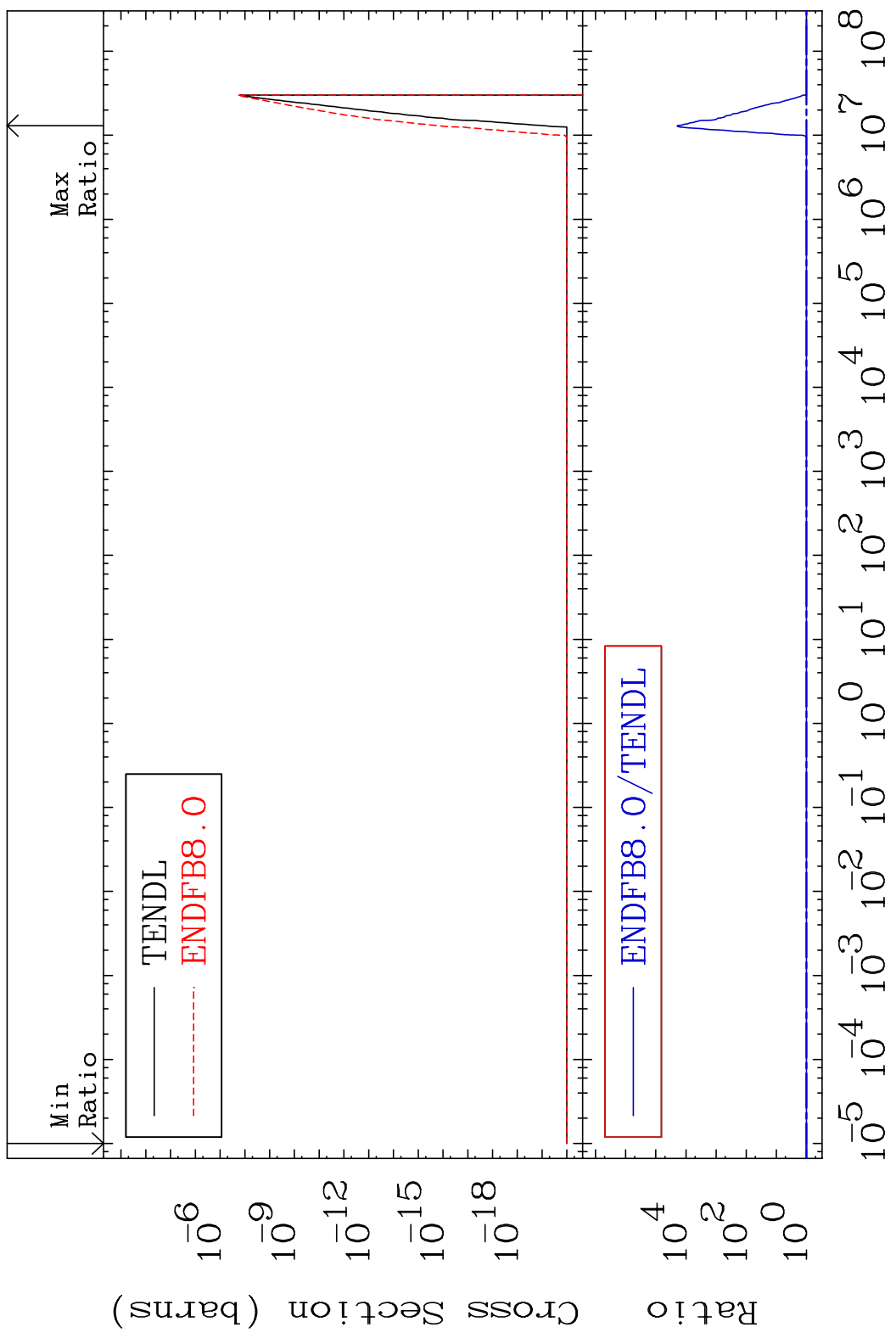


MAT 6143

(n, n') 2α

61-Pm-145

Cross Section 0.000 To 9999. %

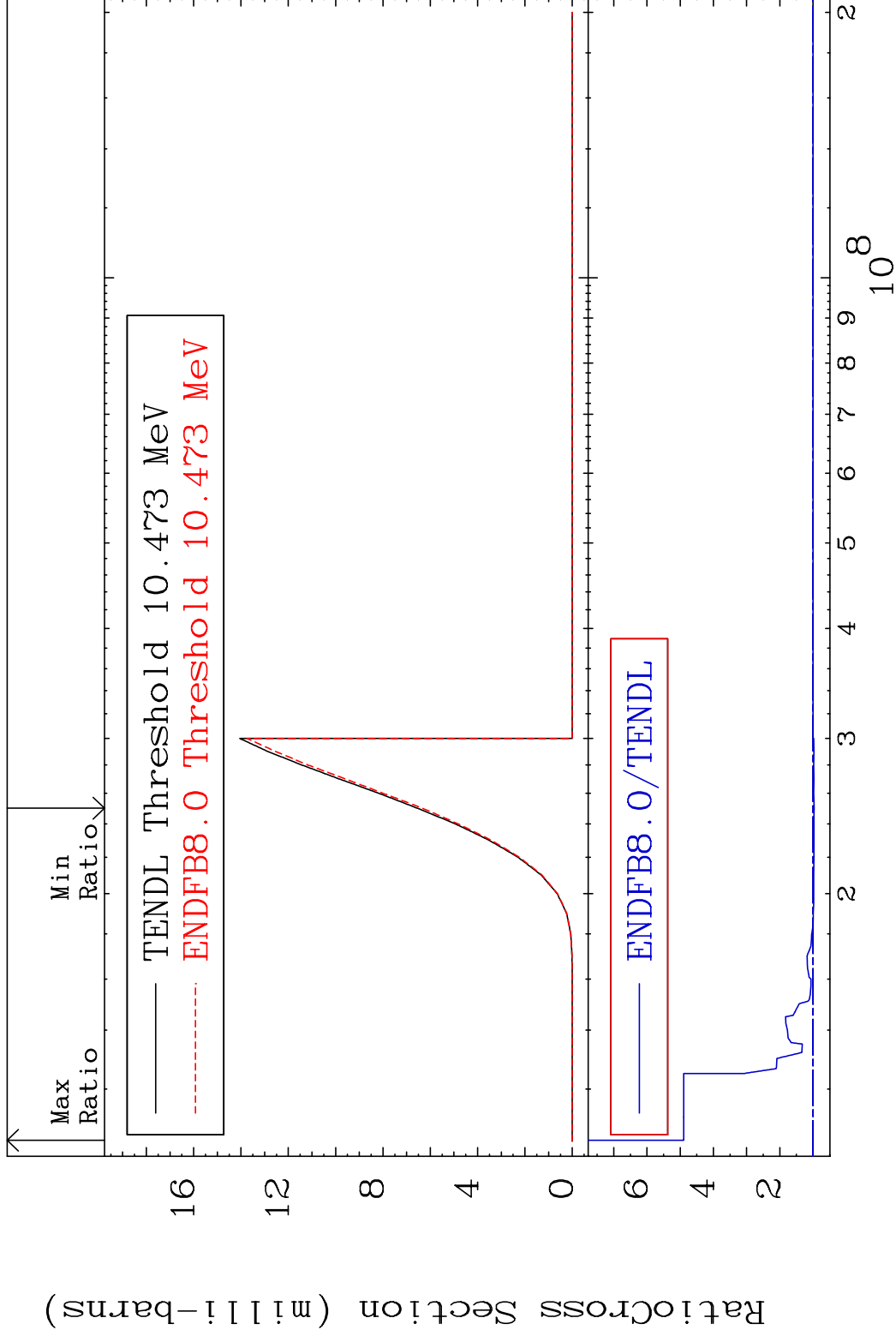


MAT 6143

(n, n') d

61-Pm-145

Cross Section -3.299 To 389.5 %



12

Incident Energy (eV)

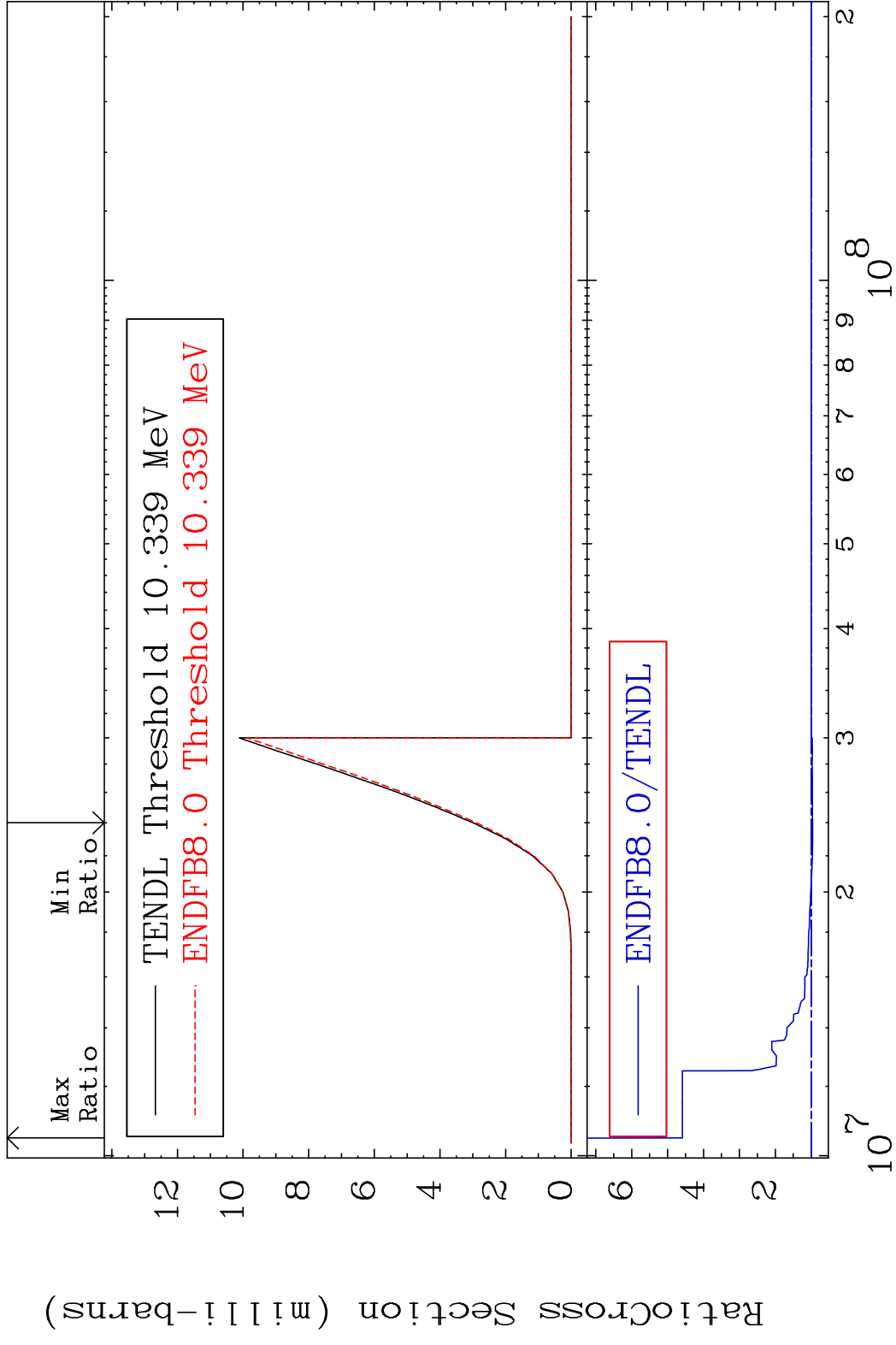
61-Pm-145

MAT 6143

(n, n') t

61-Pm-145

Cross Section -3.606 To 358.9 %

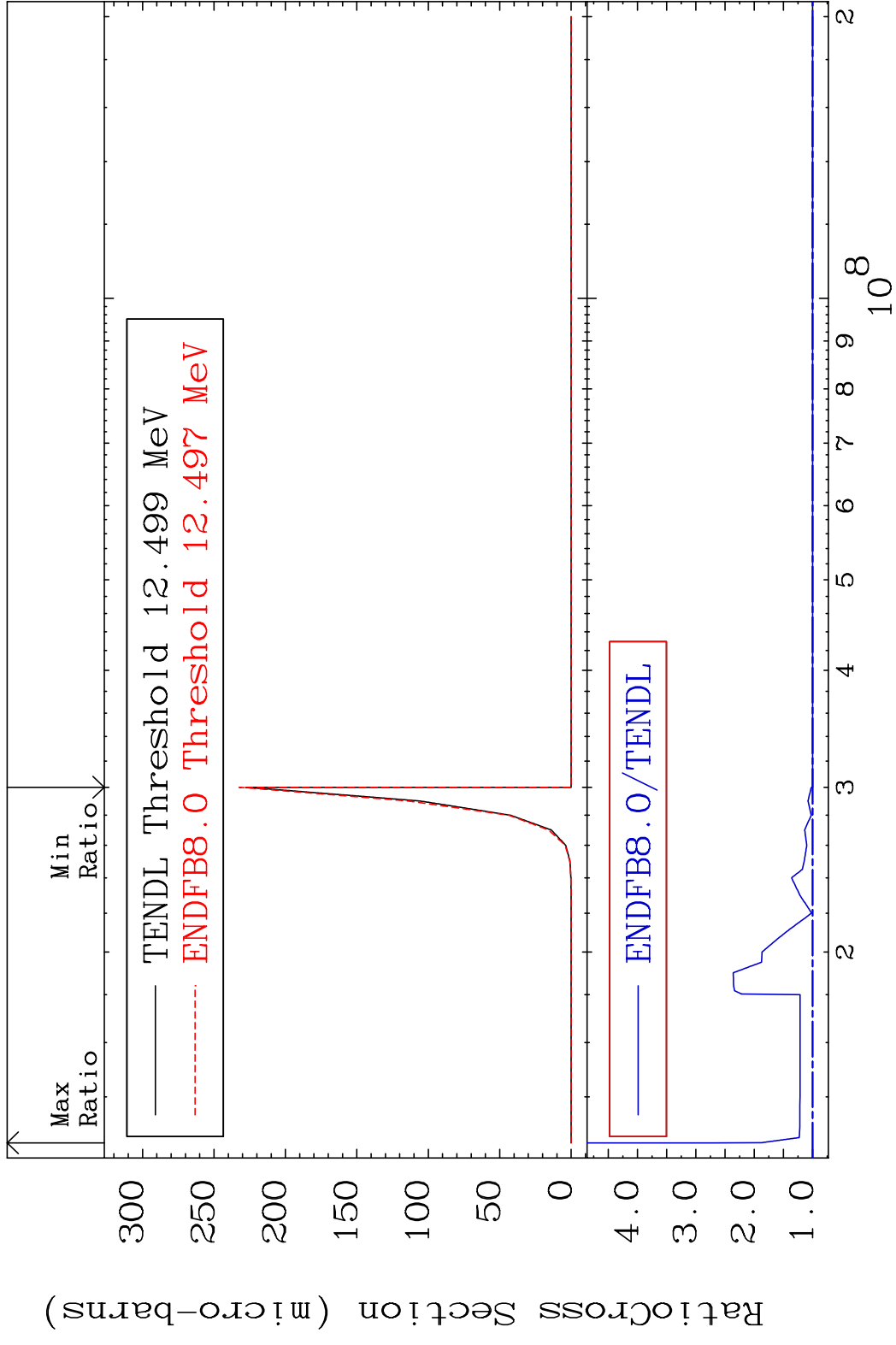


13

Incident Energy (eV)

61-Pm-145

MAT 6143 (n,n') He-3 61-Pm-145
 Cross Section 0.000 To 223.2 %

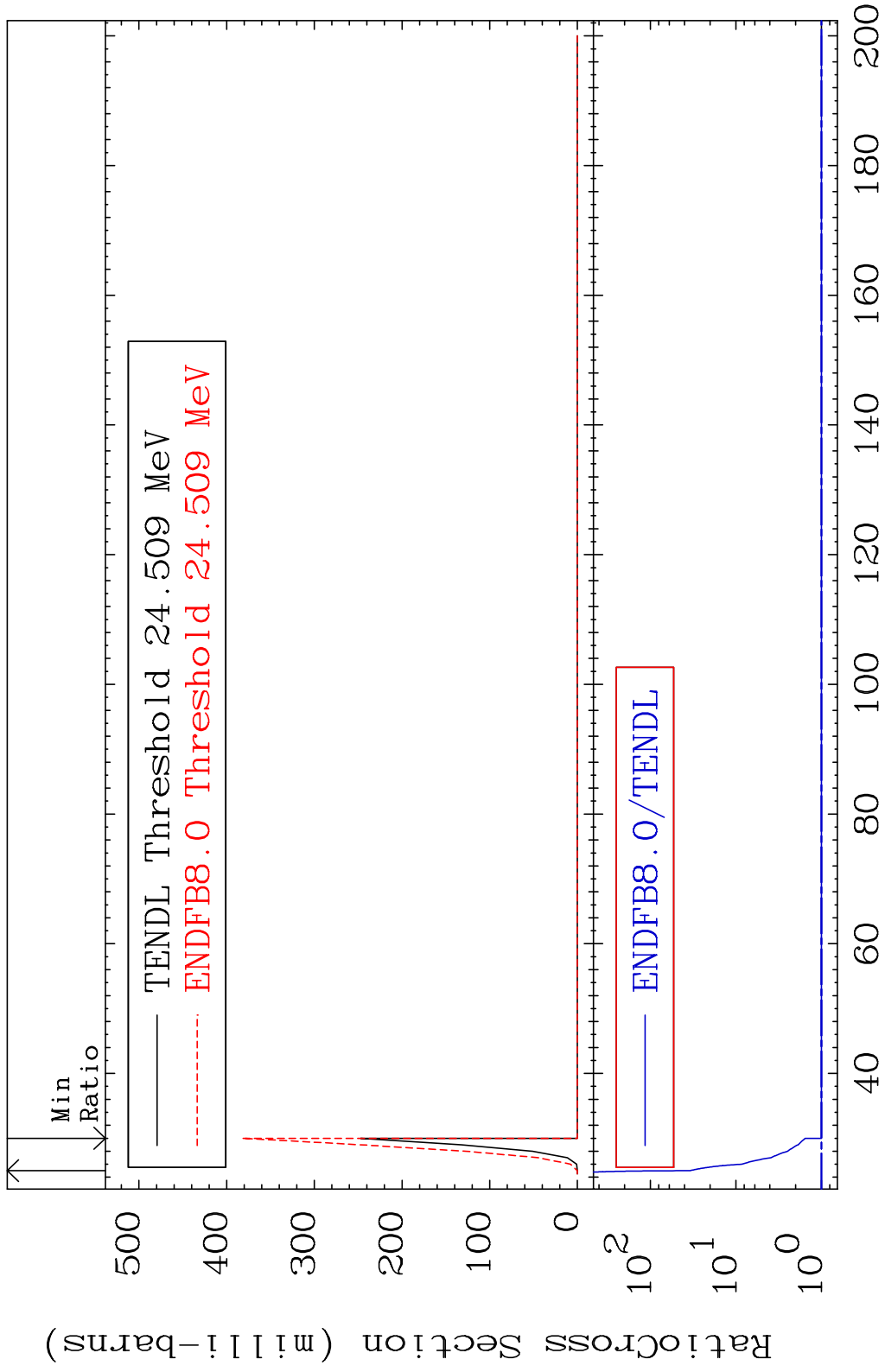


MAT 6143

(n,4n)

61-Pm-145

Cross Section 0.000 To 3361. %

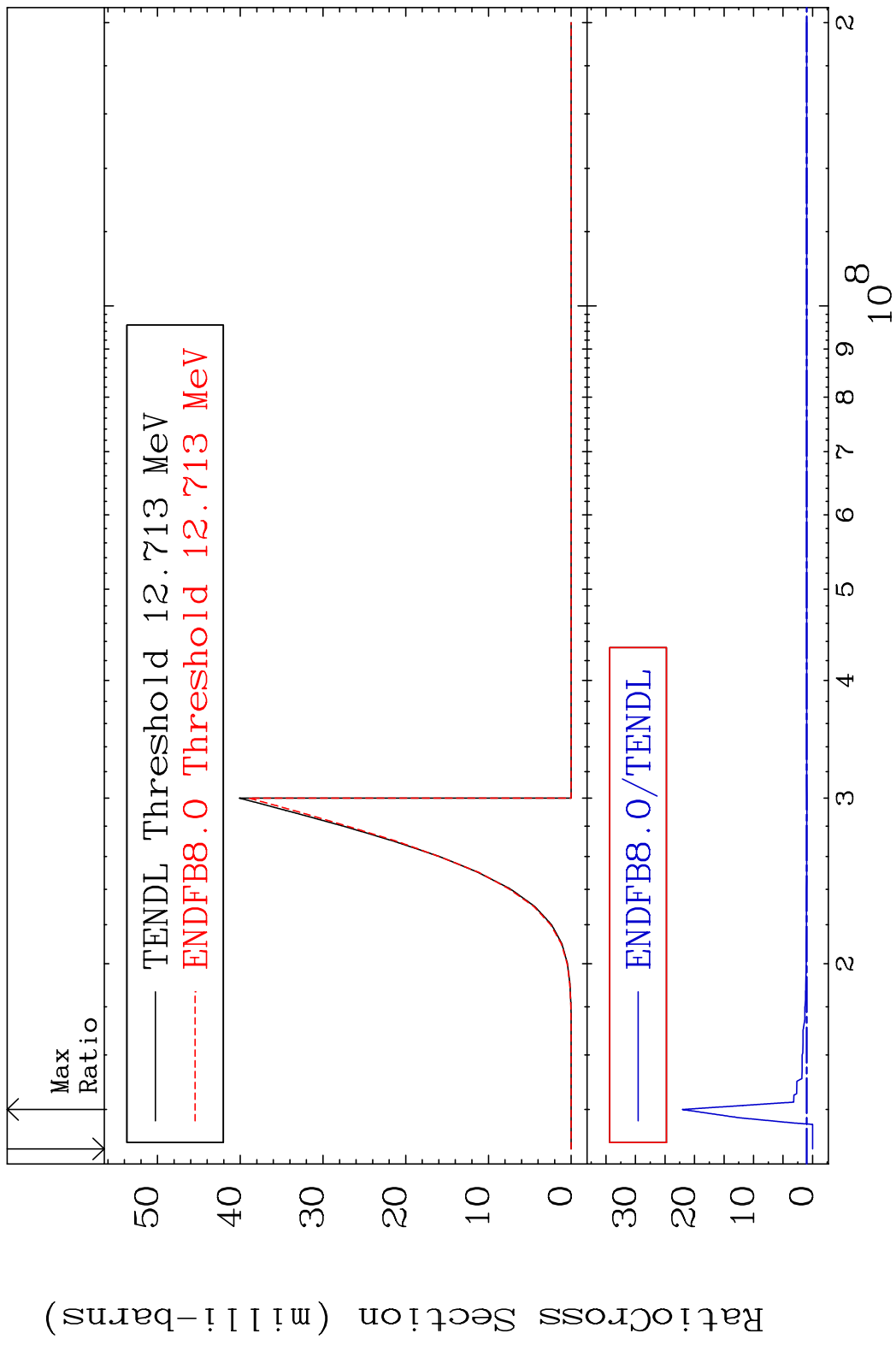


15

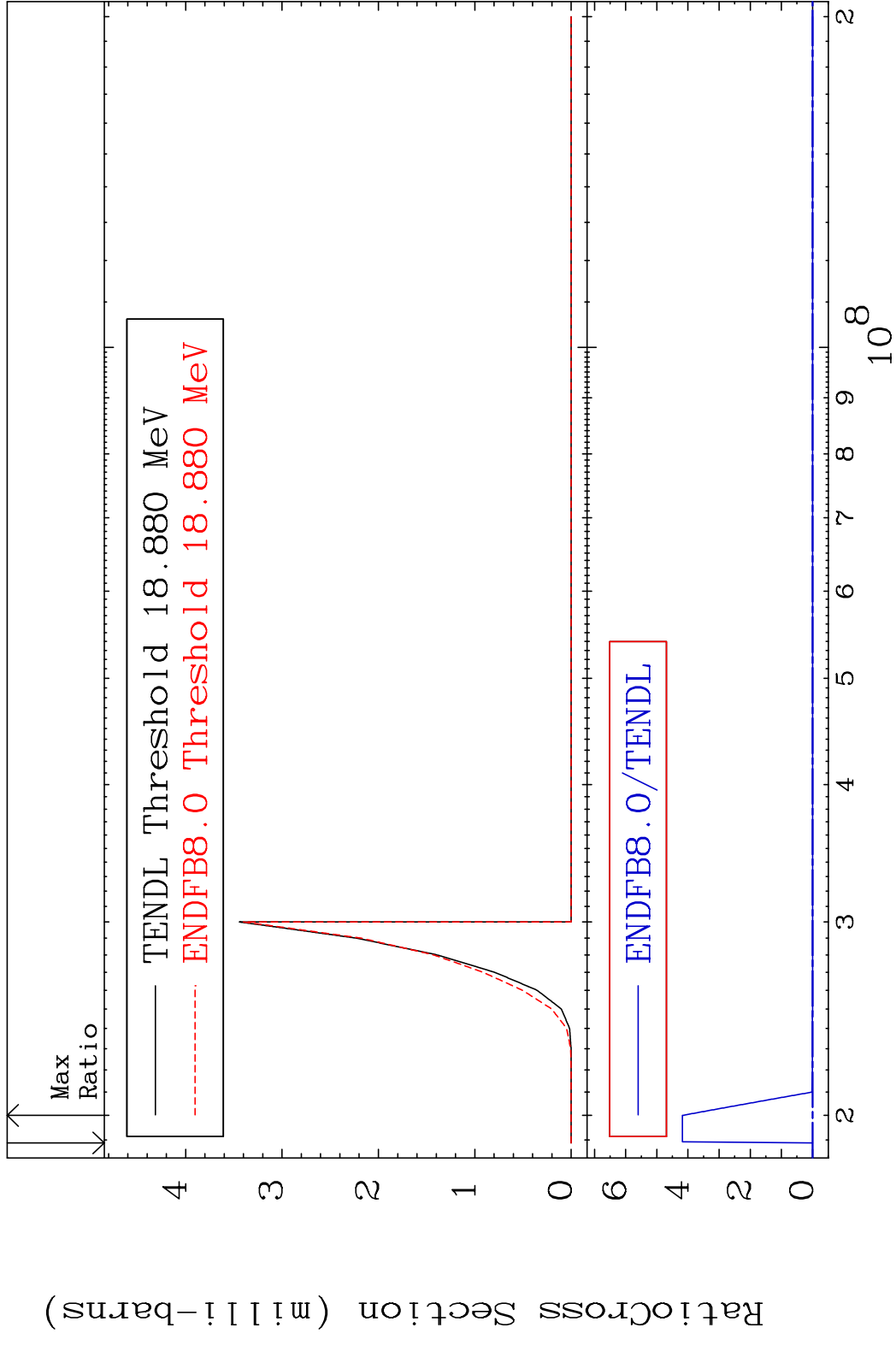
Incident Energy (MeV)

61-Pm-145

MAT 6143 (n,2n) p 61-Pm-145
 Cross Section -100.0 To 2106. %

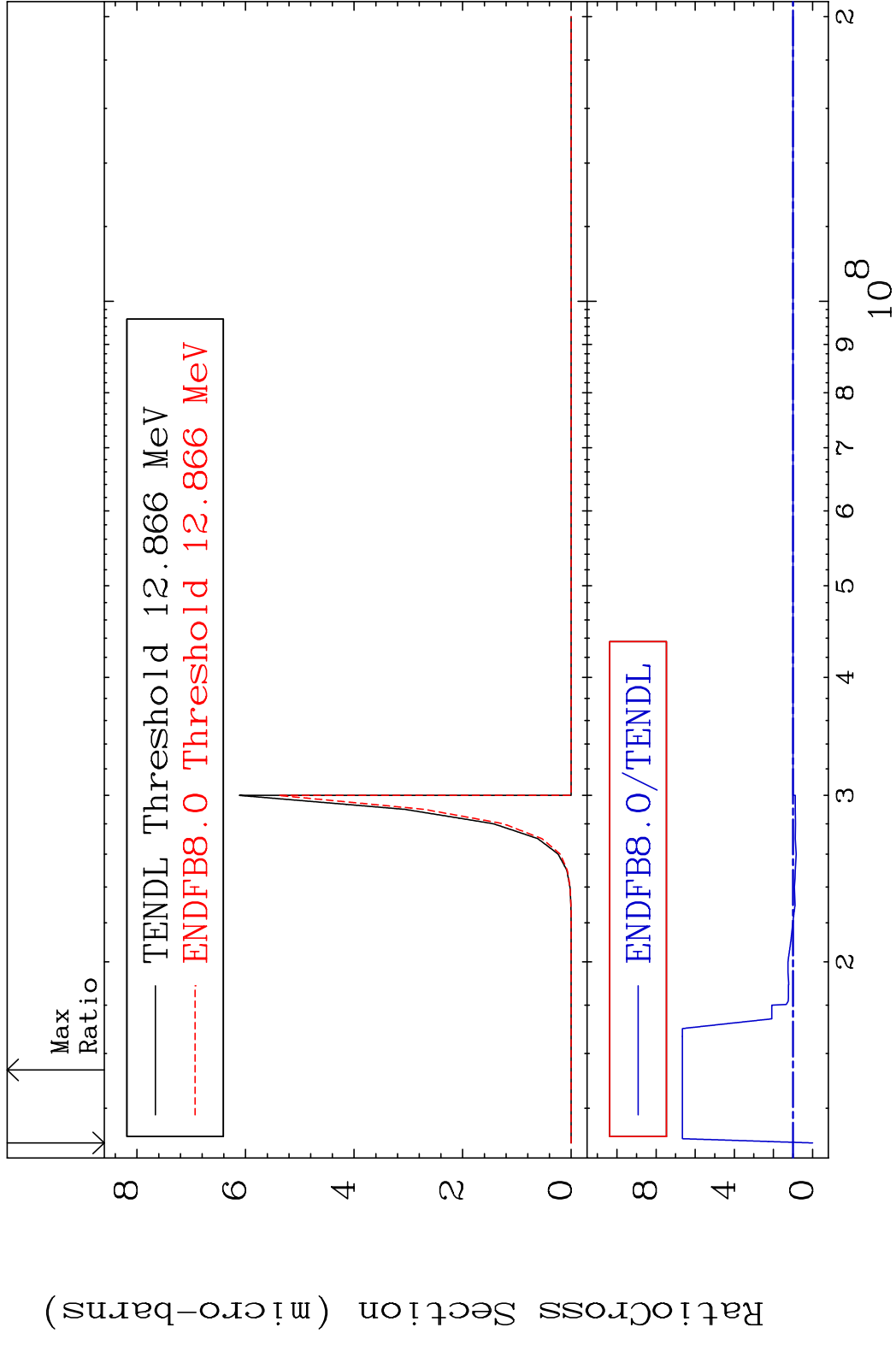


MAT 6143 (n,3n) p 61-Pm-145
 Cross Section -100.0 To 9999. %



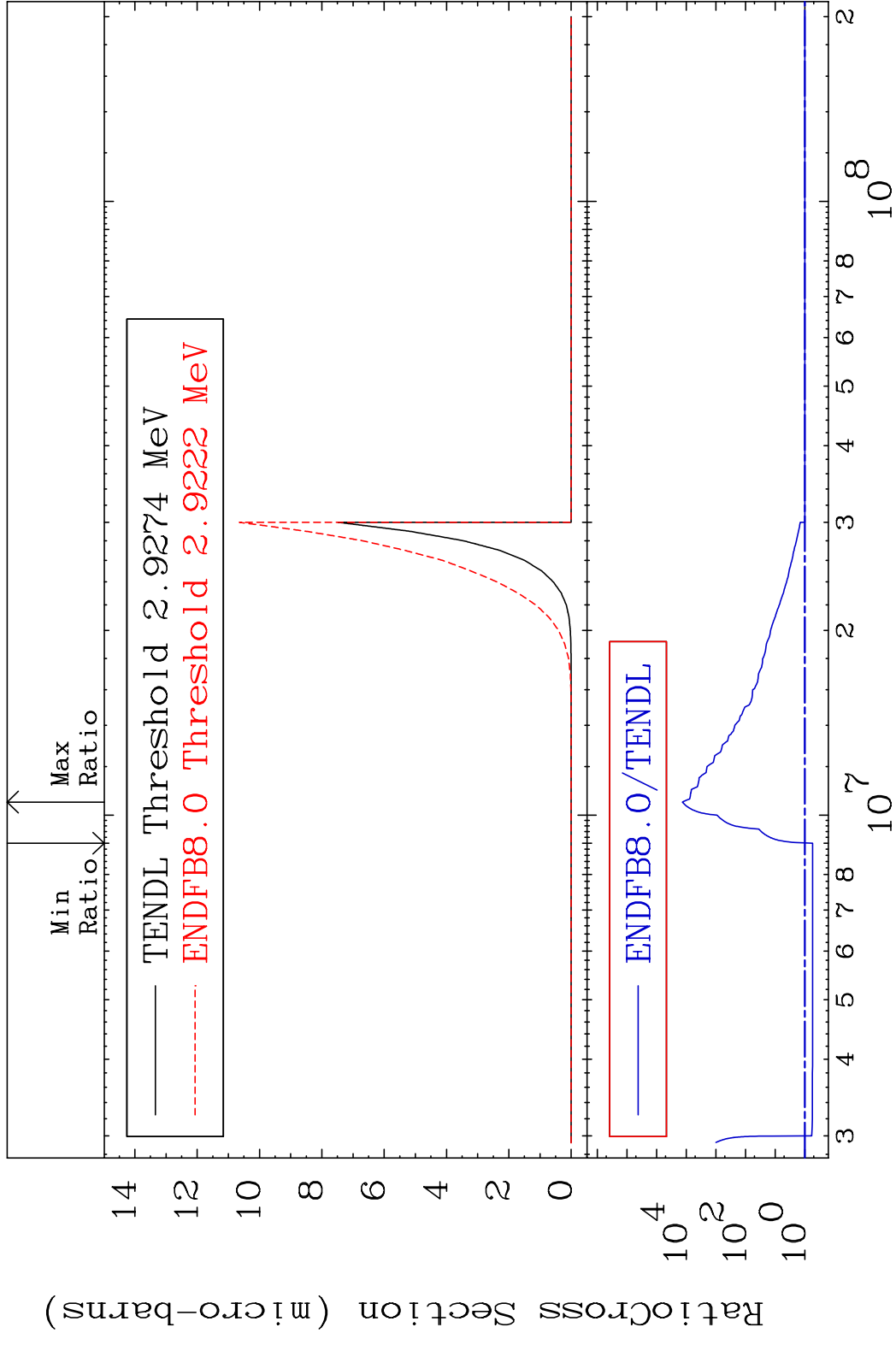
17 Incident Energy (eV) 61-Pm-145

MAT 6143 (n,2n) p 61-Pm-145
 Cross Section -100.0 To 565.6 %

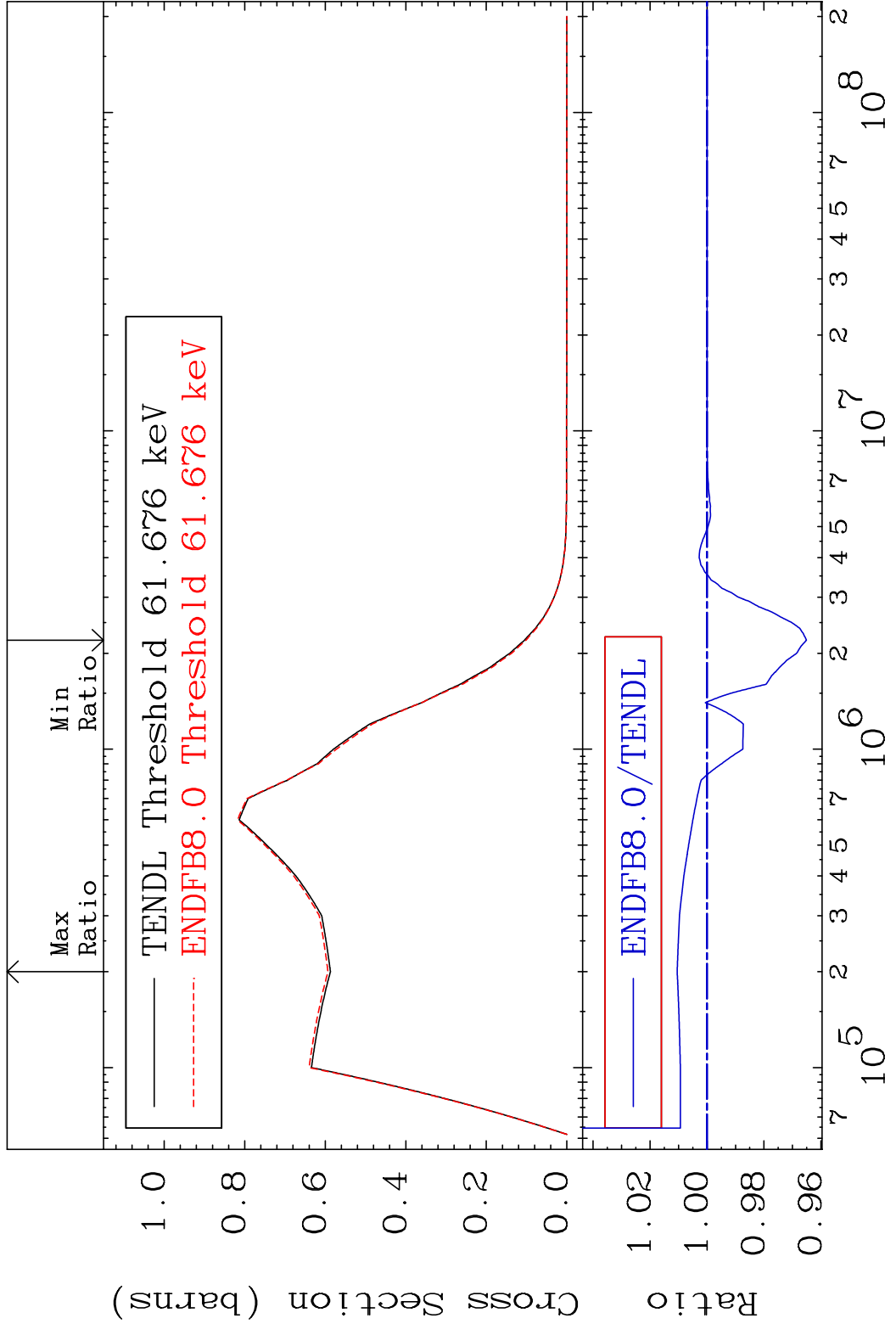


MAT 6143

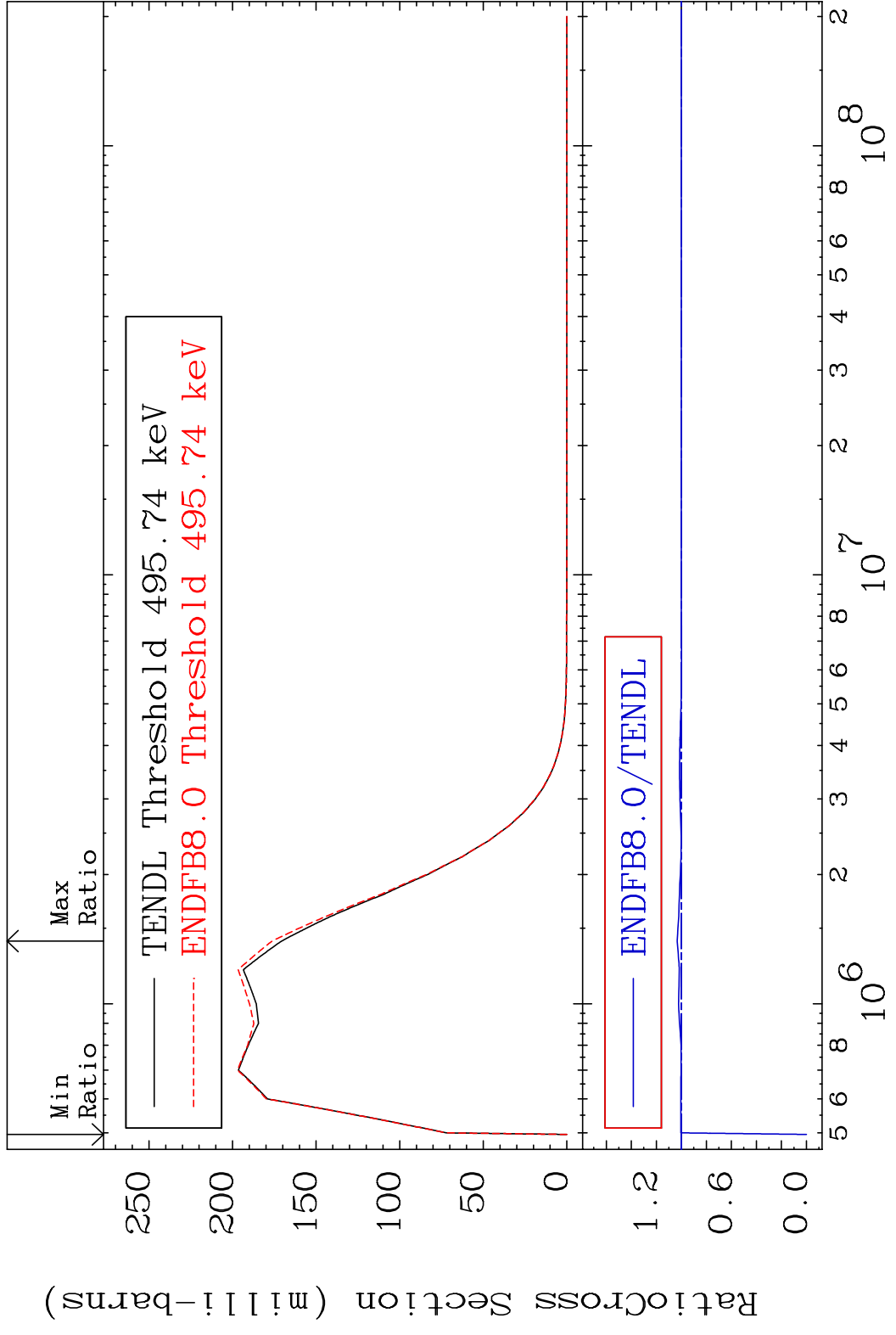
(n,n') p α 61-Pm-145
Cross Section -44.73 To 9999. %



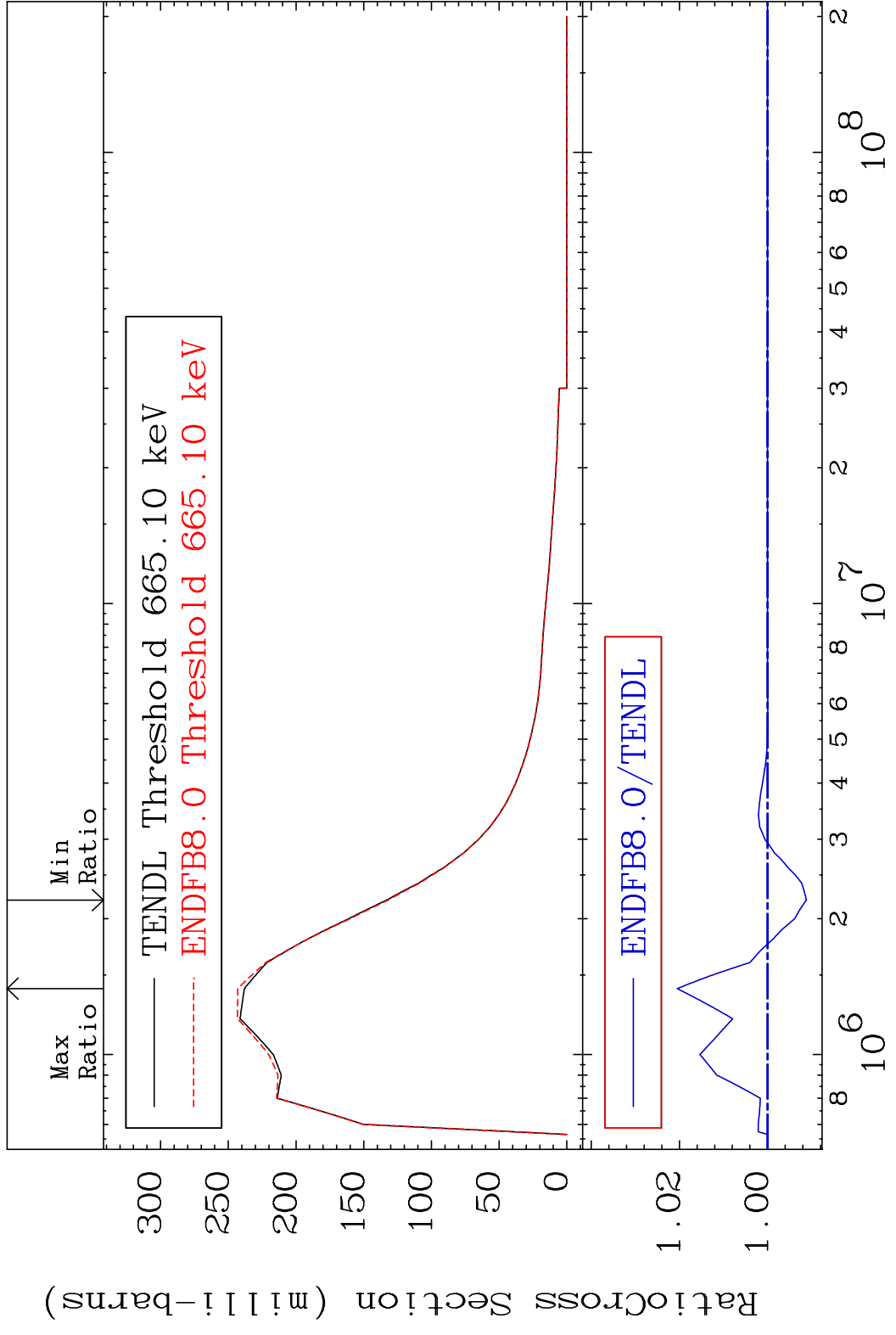
MAT 6143 MT= 51 (n, n') Level 61-Pm-145
 Cross Section -3.487 To 1.046 %



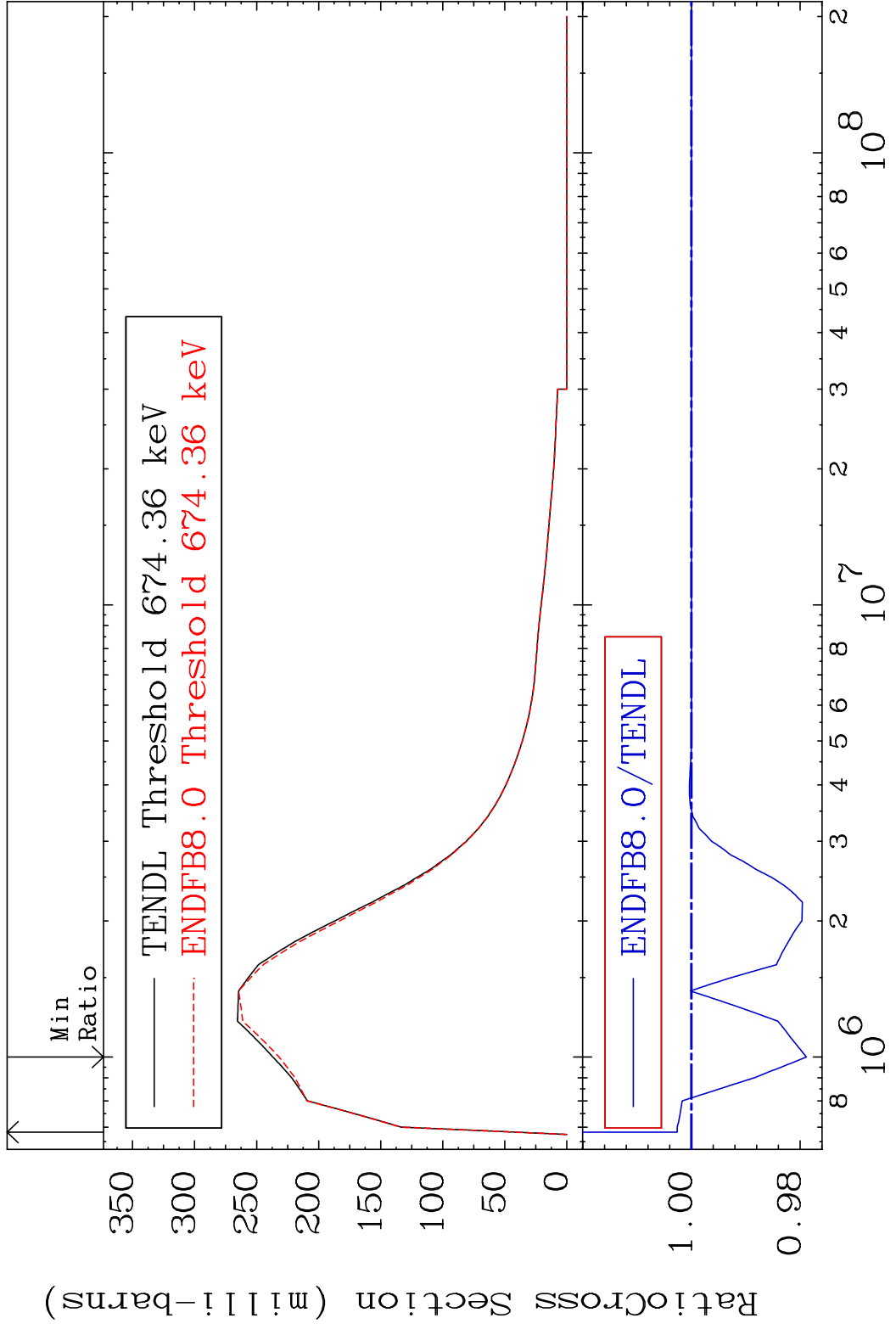
MAT 6143 MT= 52 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 3.324 %



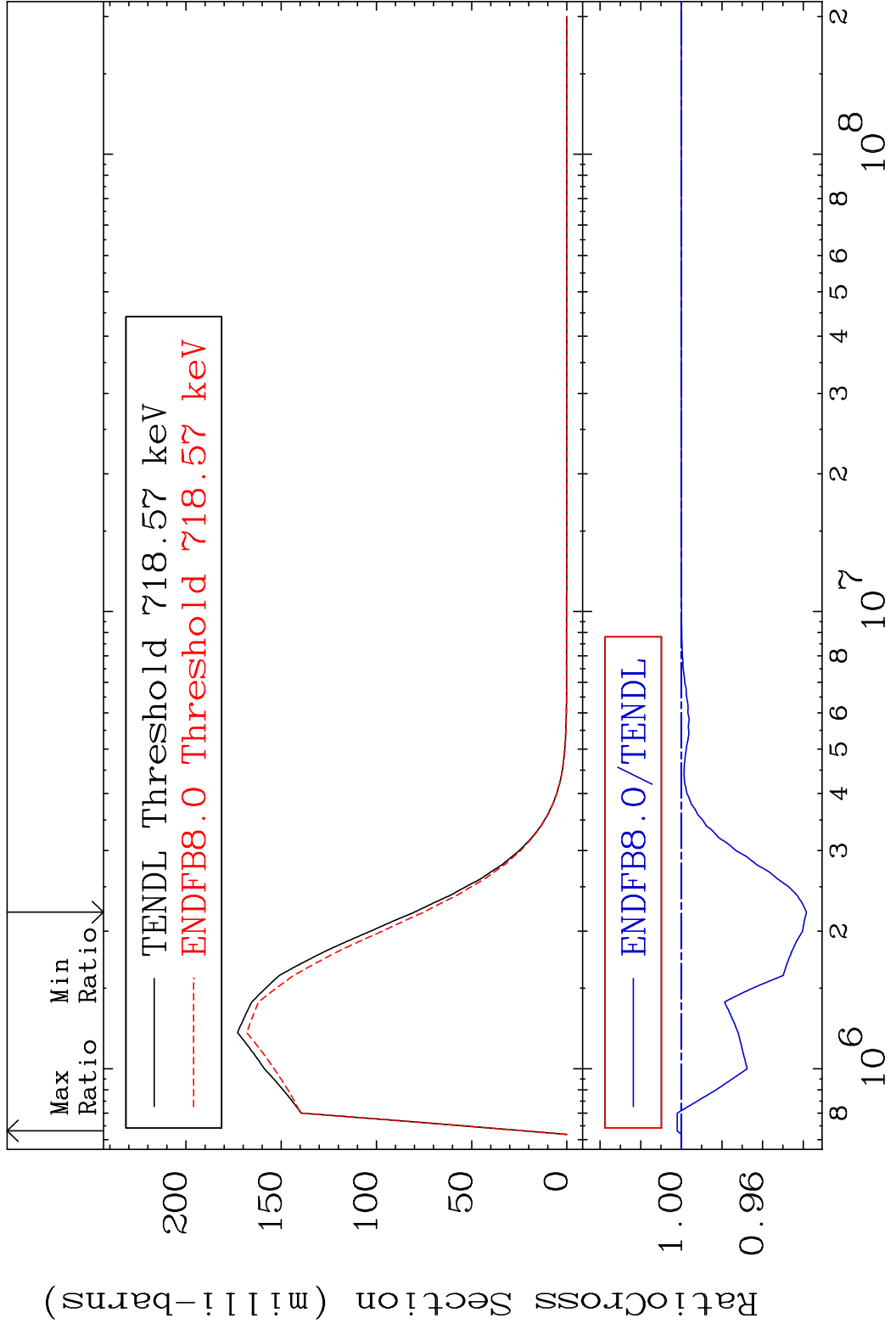
MAT 6143 MT= 53 (n, n') Level 61-Pm-145
 Cross Section -0.881 To 2.051 %



MAT 6143 MT= 54 (n,n') Level 61-Pm-145
 Cross Section -2.115 To 0.262 %

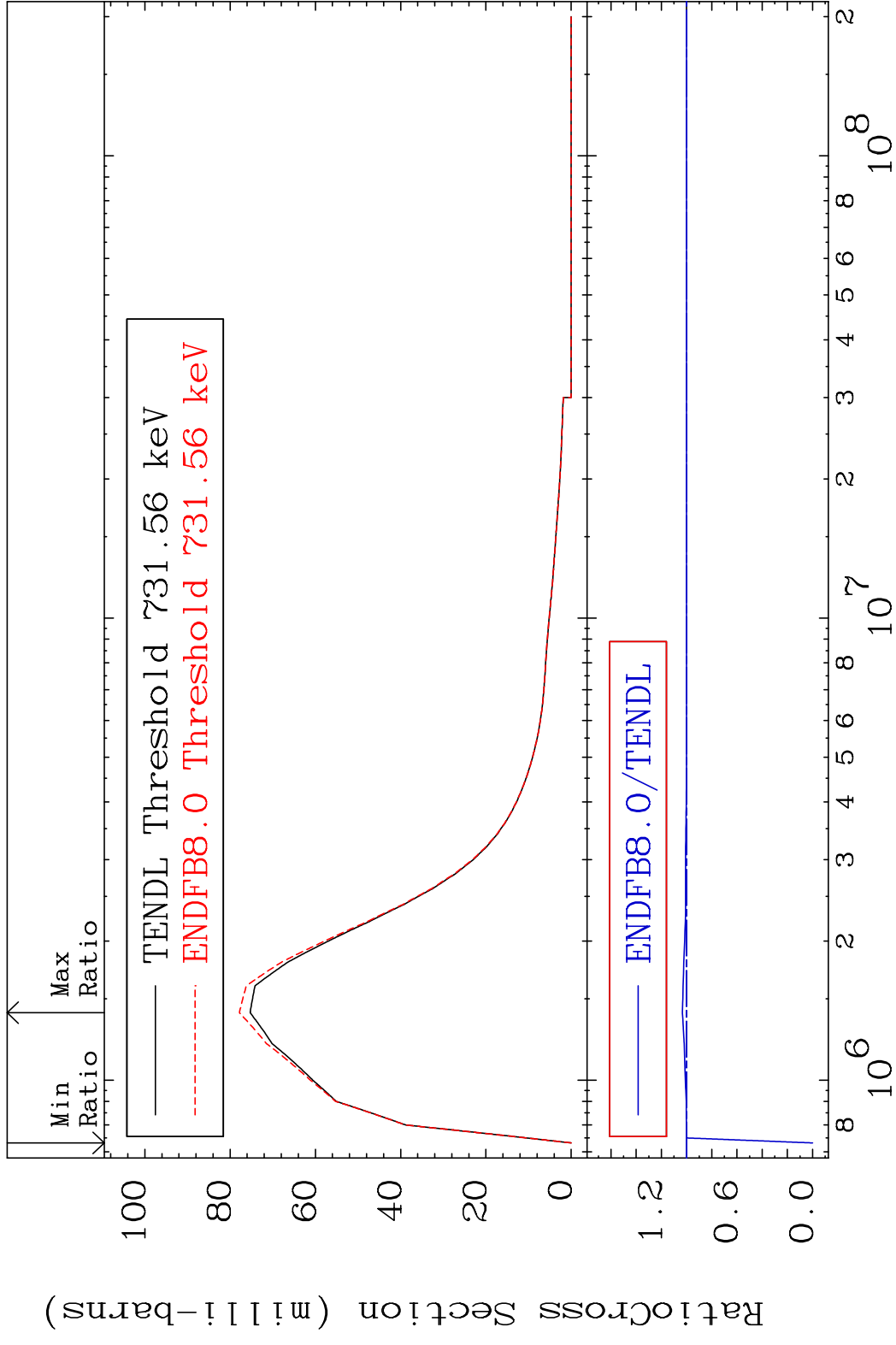


MAT 6143 MT= 55 (n,n') Level 61-Pm-145
 Cross Section -6.158 To 0.204 %

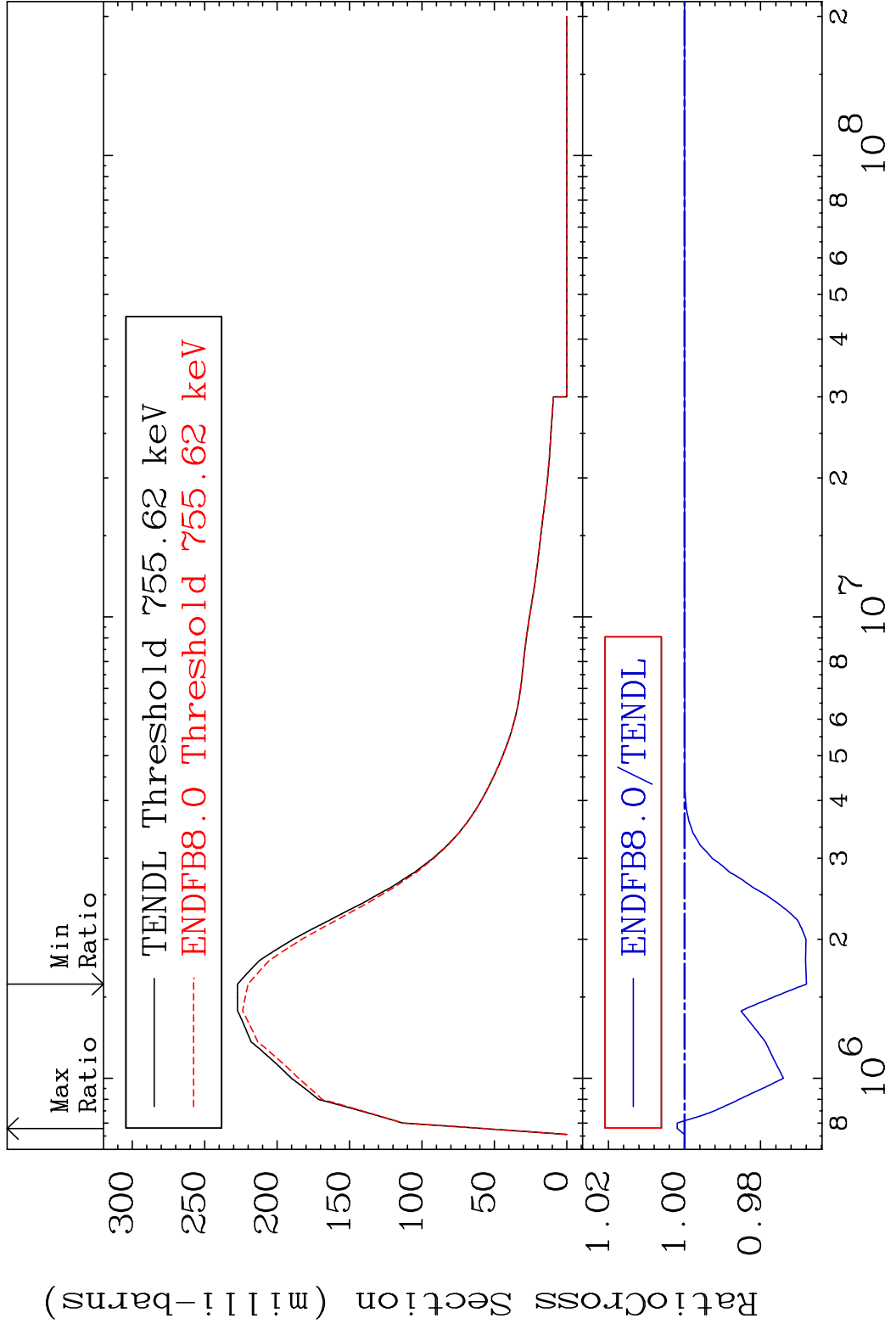


24 Incident Energy (eV) 61-Pm-145

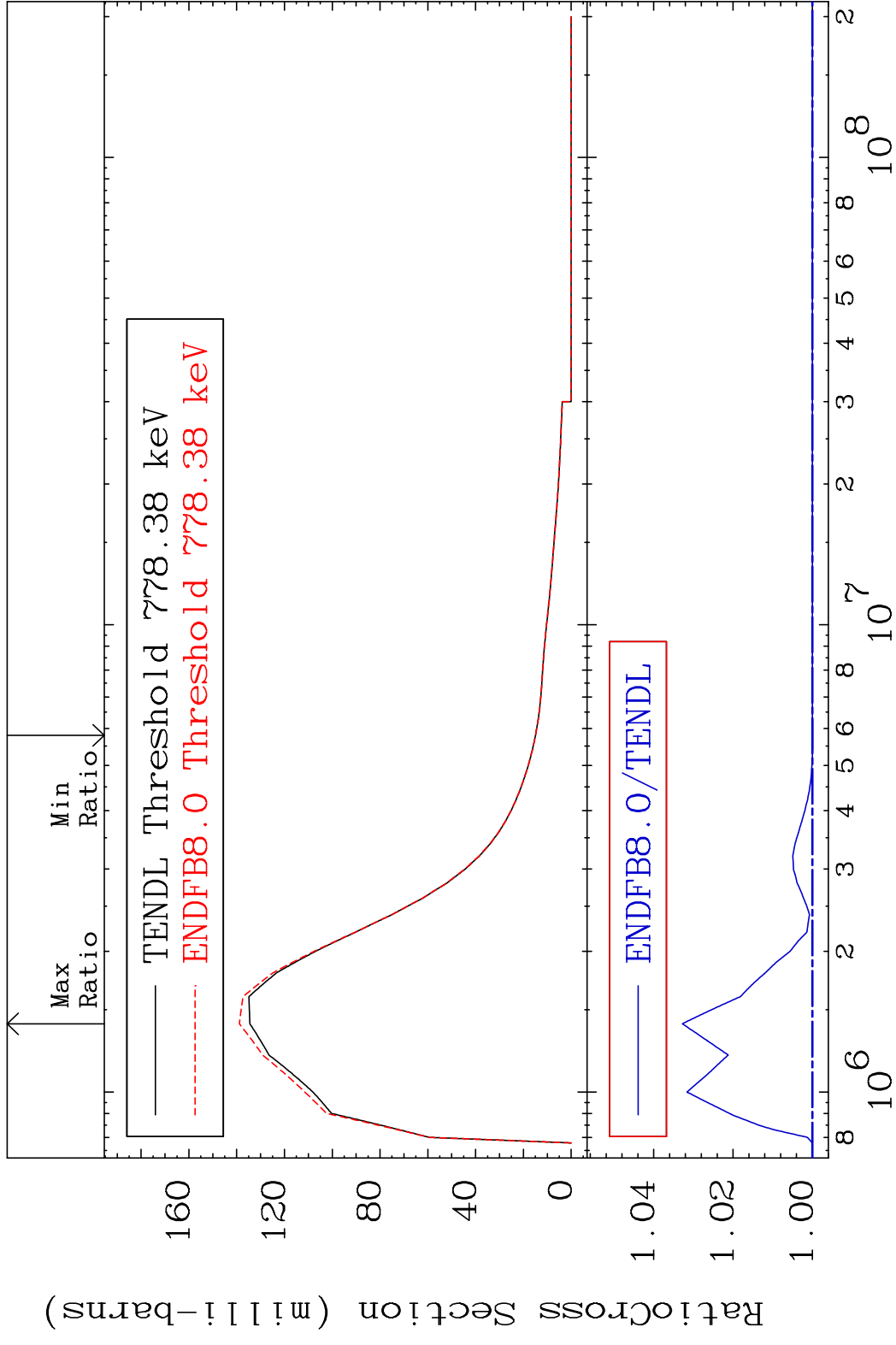
MAT 6143 MT= 56 (n,n') Level 61-Pm-145
 Cross Section -100.0 To 3.348 %



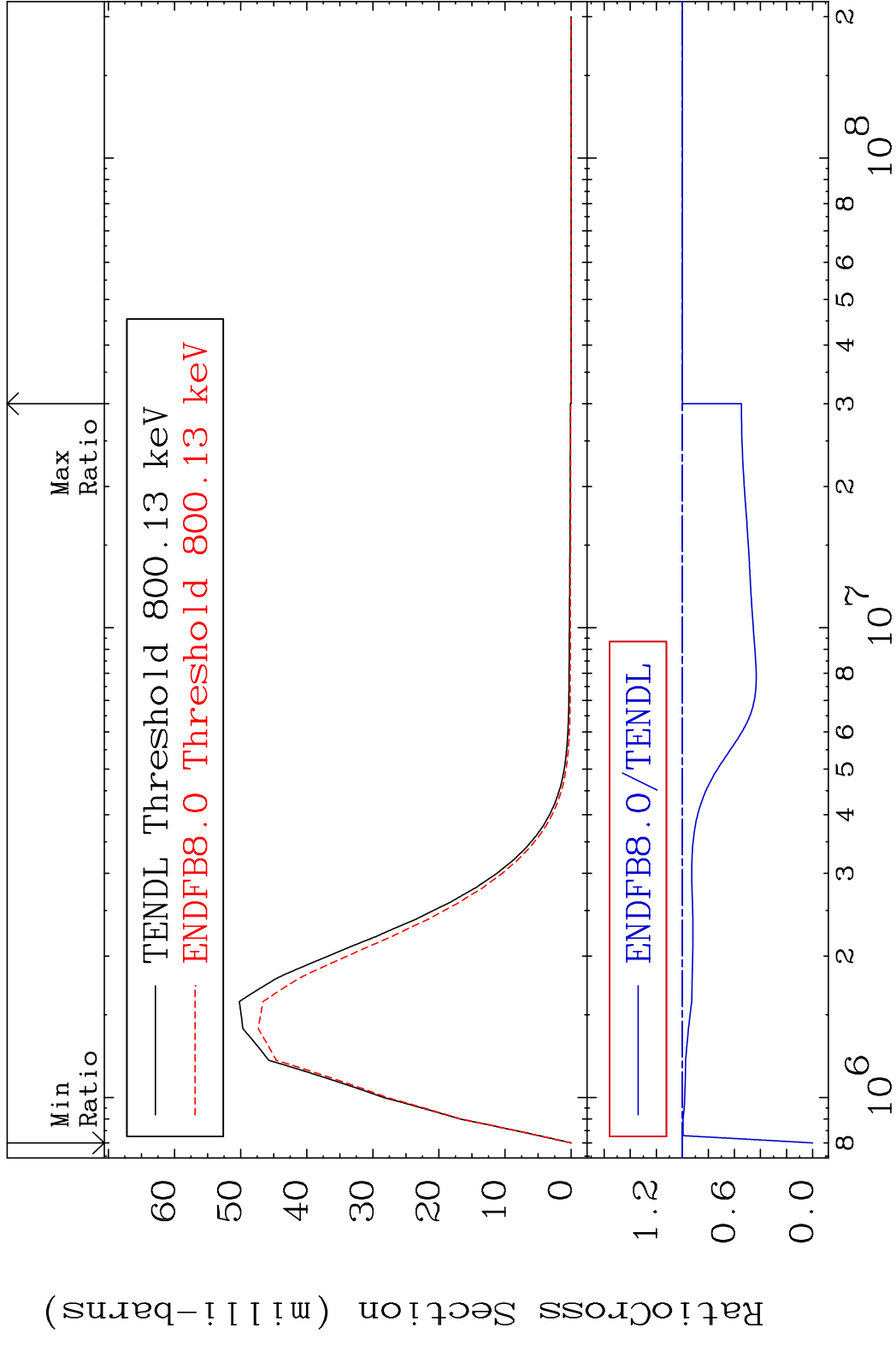
MAT 6143 MT= 57 (n,n') Level 61-Pm-145
 Cross Section -3.204 To 0.194 %



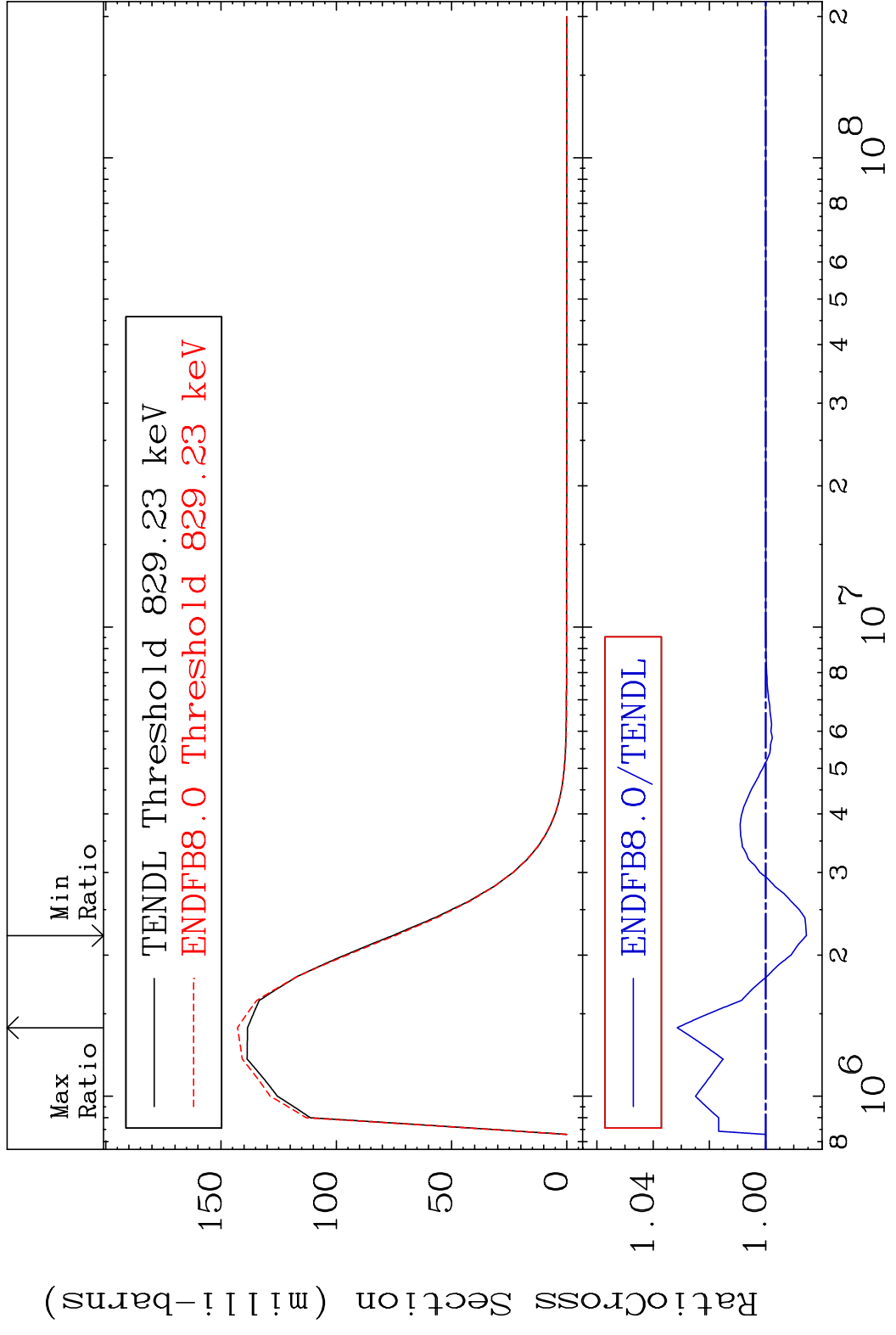
MAT 6143 MT= 58 (n,n') Level 61-Pm-145
 Cross Section -0.004 To 3.278 %



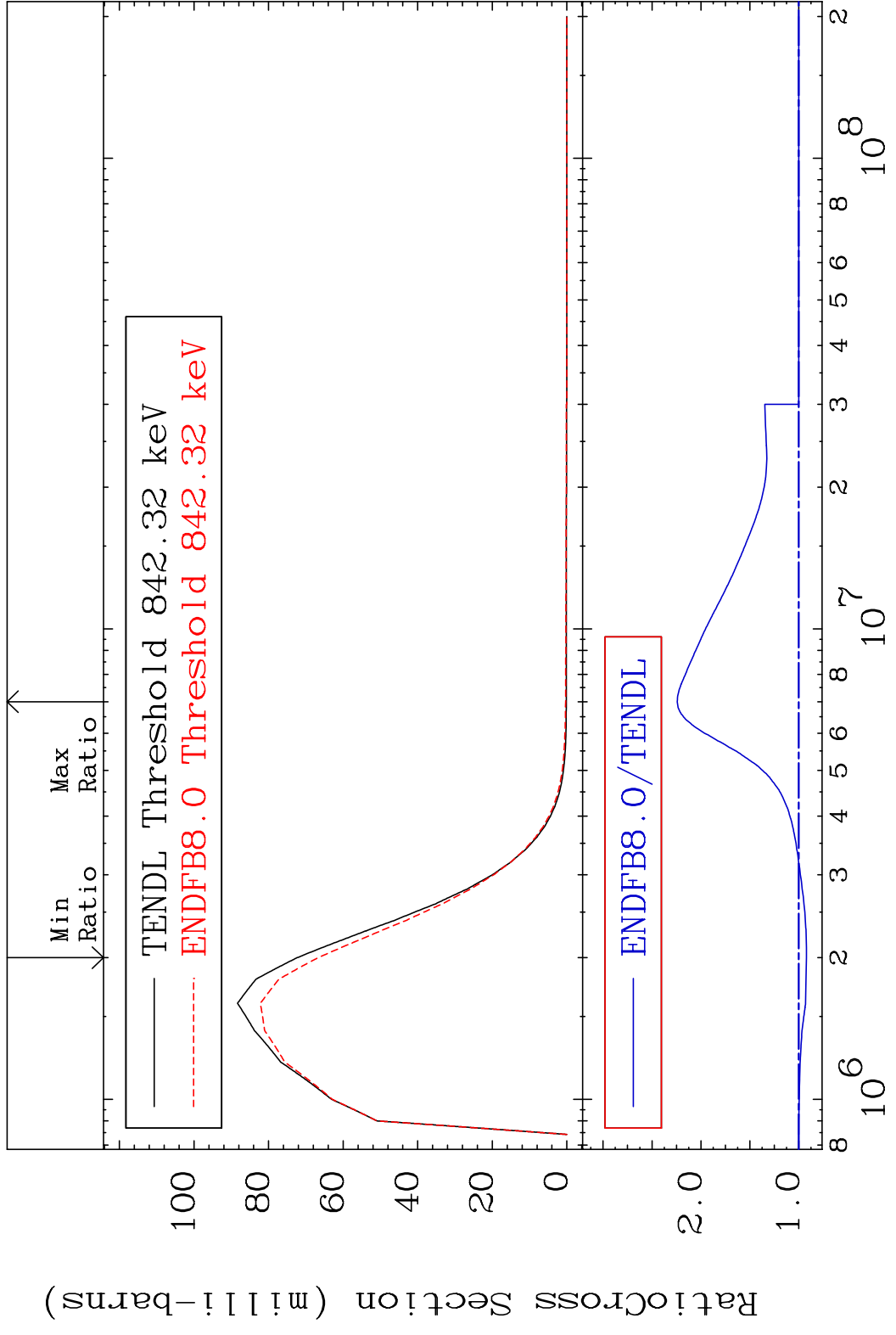
MAT 6143 MT= 59 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 0.000 %



MAT 6143 MT= 60 (n, n') Level 61-Pm-145
 Cross Section -1.446 To 3.145 %

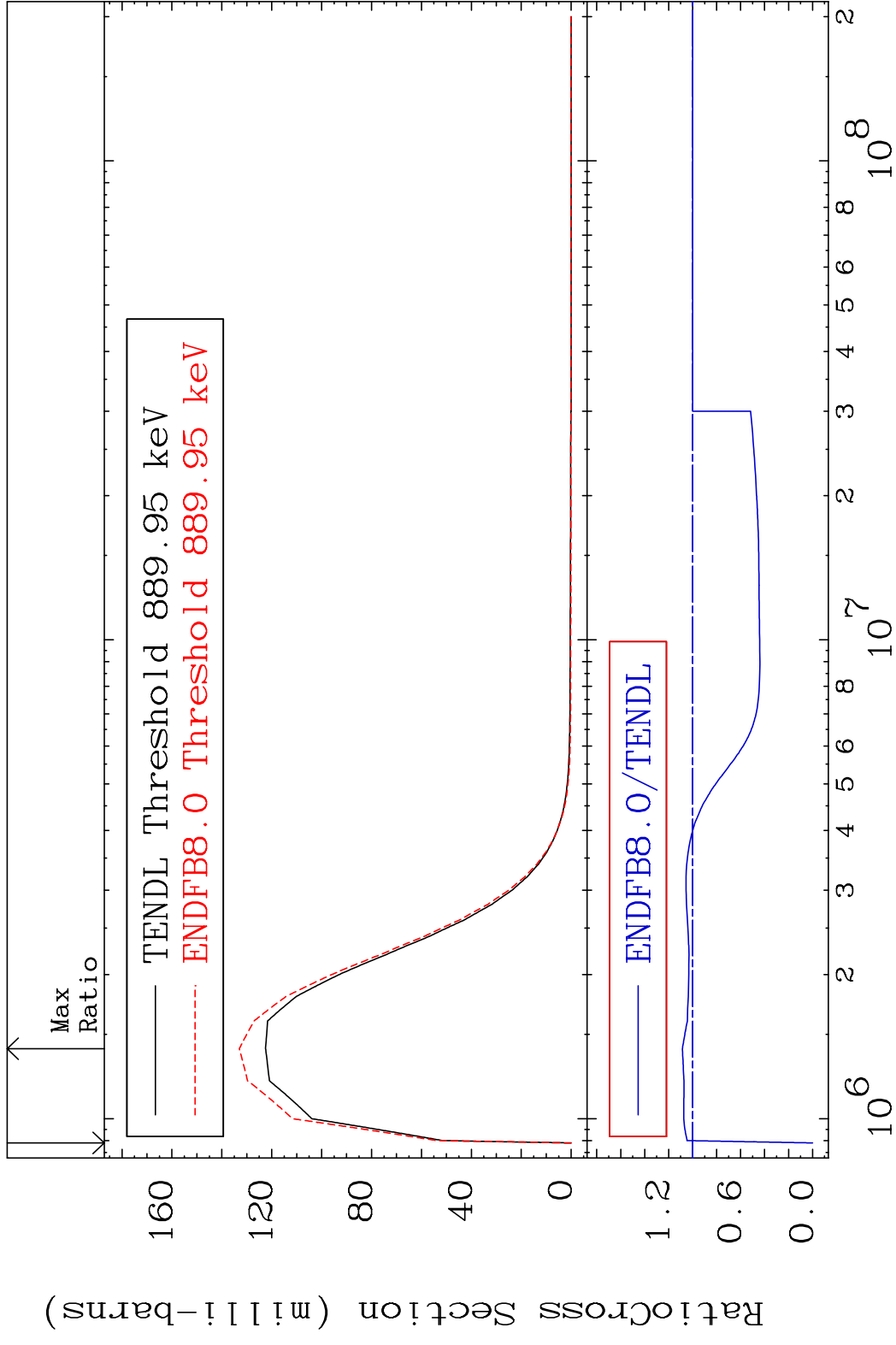


MAT 6143 MT= 61 (n, n') Level 61-Pm-145
 Cross Section -7.777 To 124.3 %

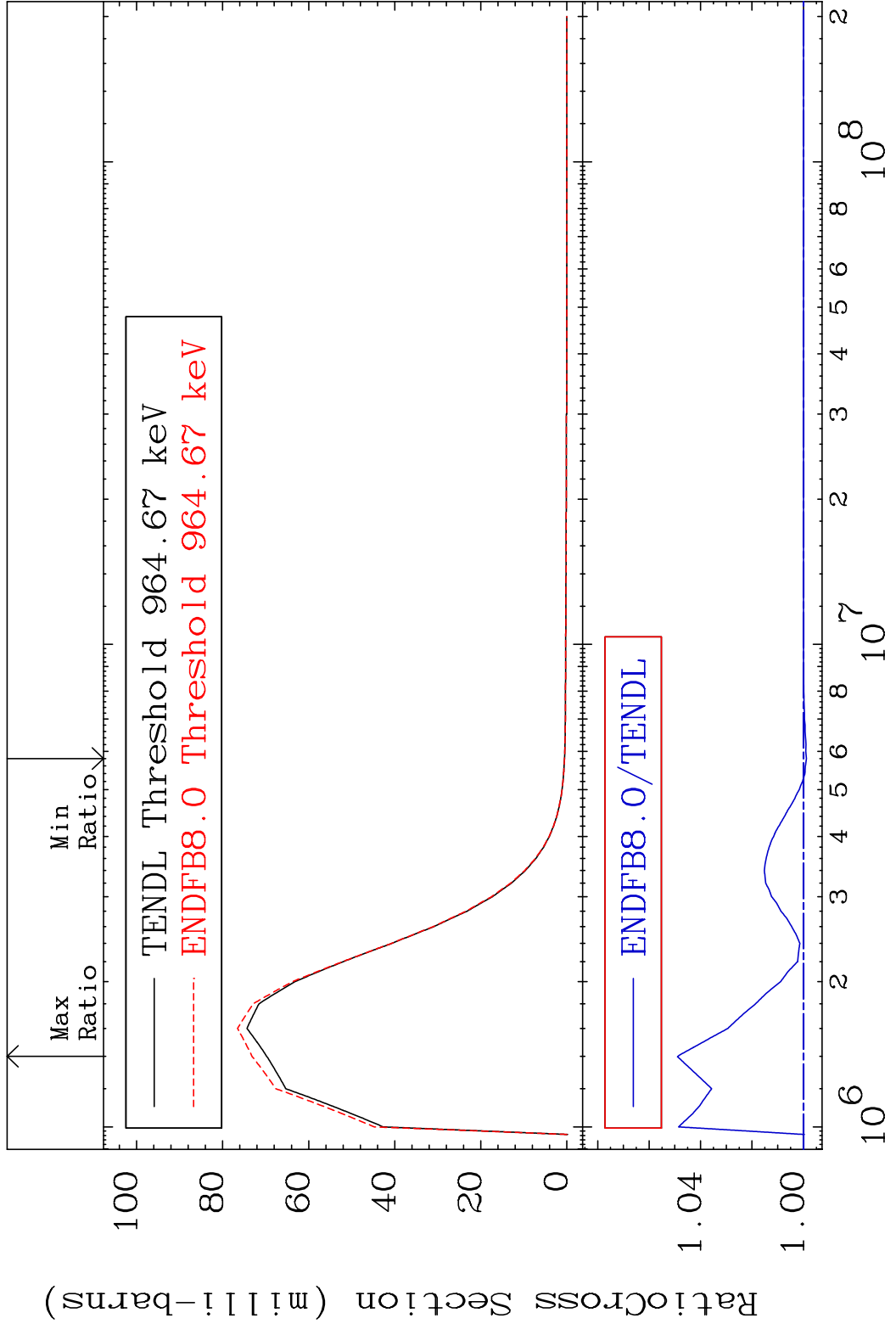


30 Incident Energy (eV) 61-Pm-145

MAT 6143 MT= 62 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 8.585 %



MAT 6143 MT= 63 (n, n') Level 61-Pm-145
 Cross Section -0.115 To 4.909 %

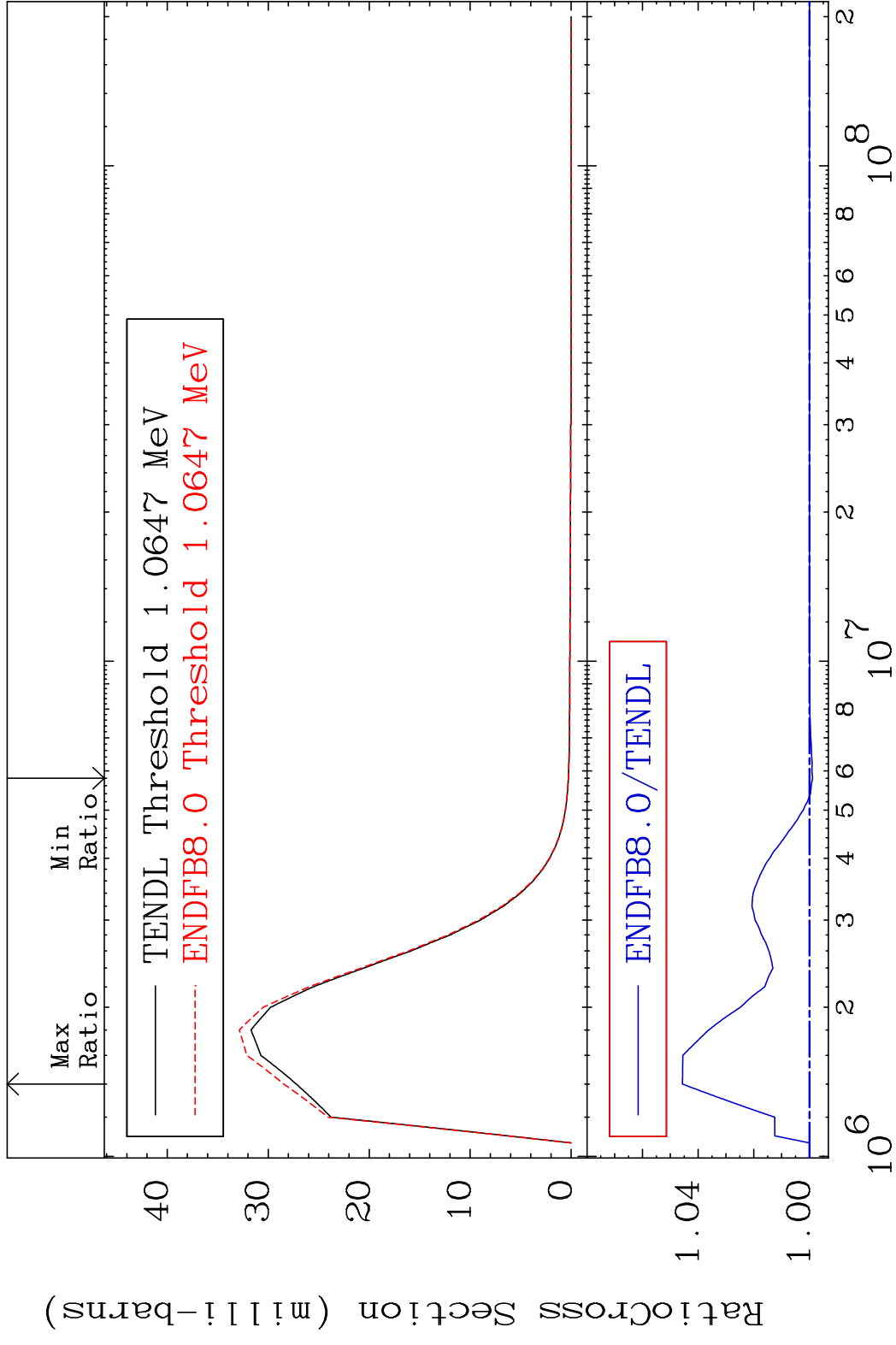


MAT 6143

MT= 64 (n, n') Level

61-Pm-145

Cross Section -0.110 To 4.567 %

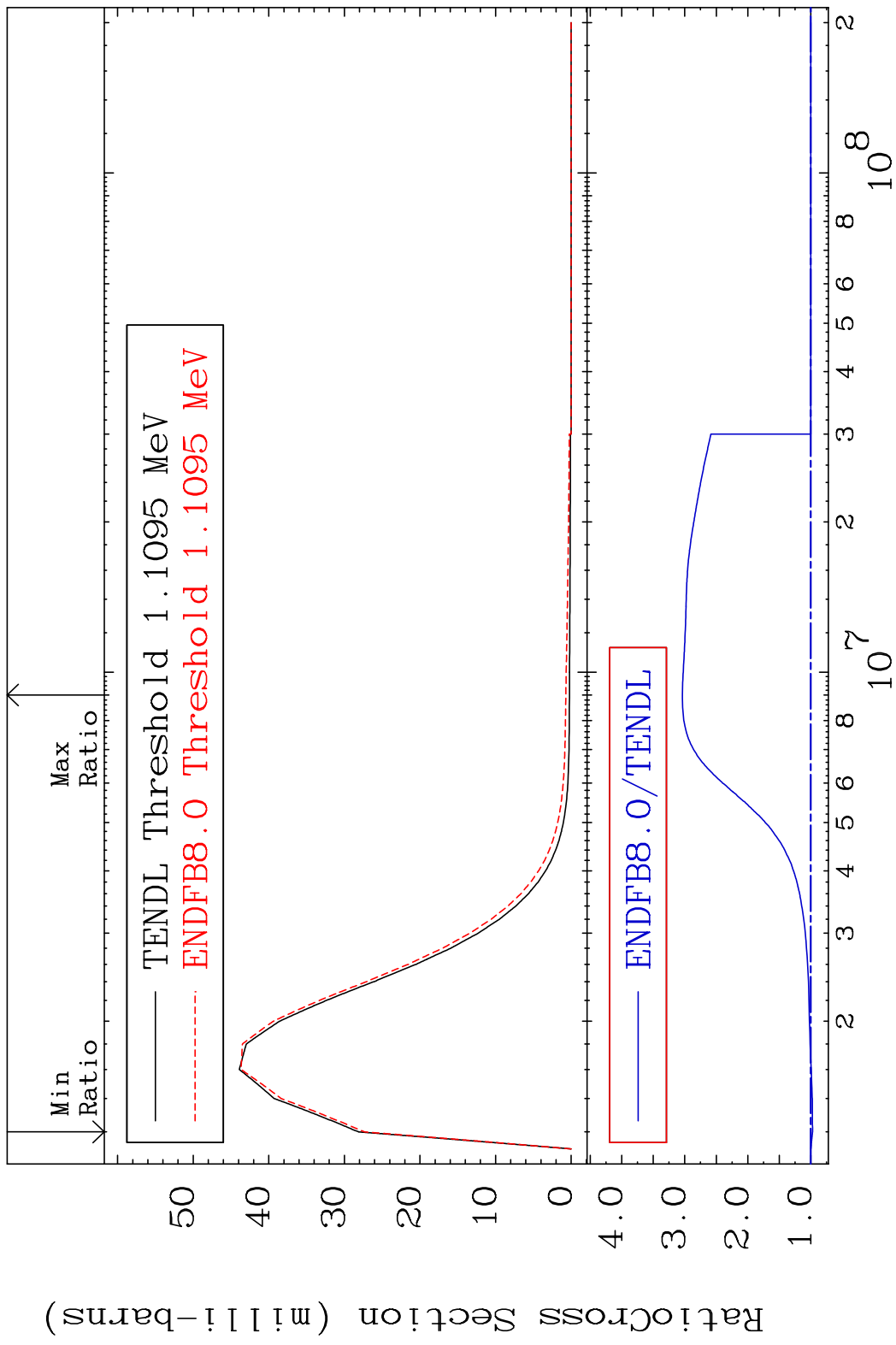


33

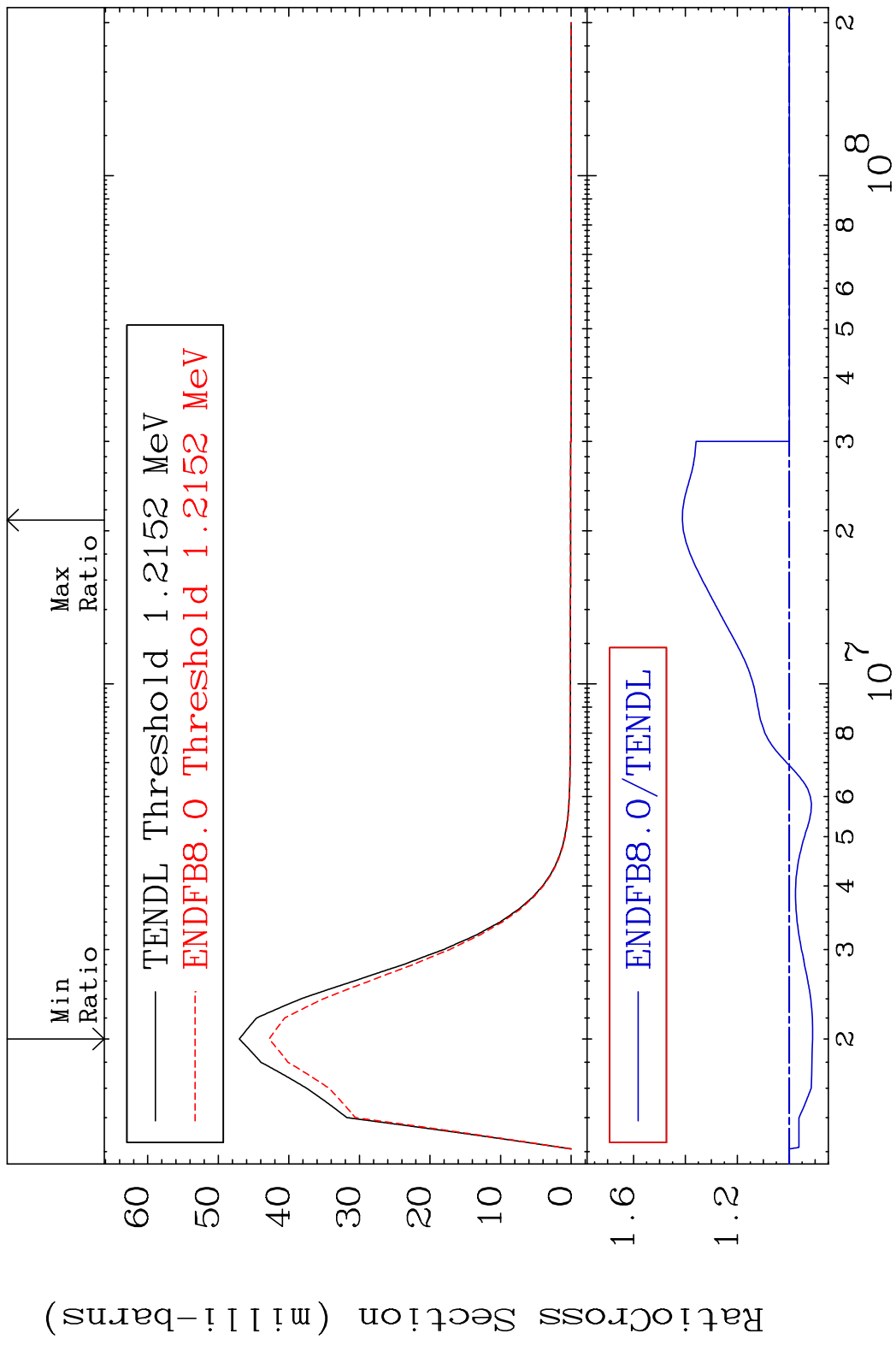
Incident Energy (eV)

61-Pm-145

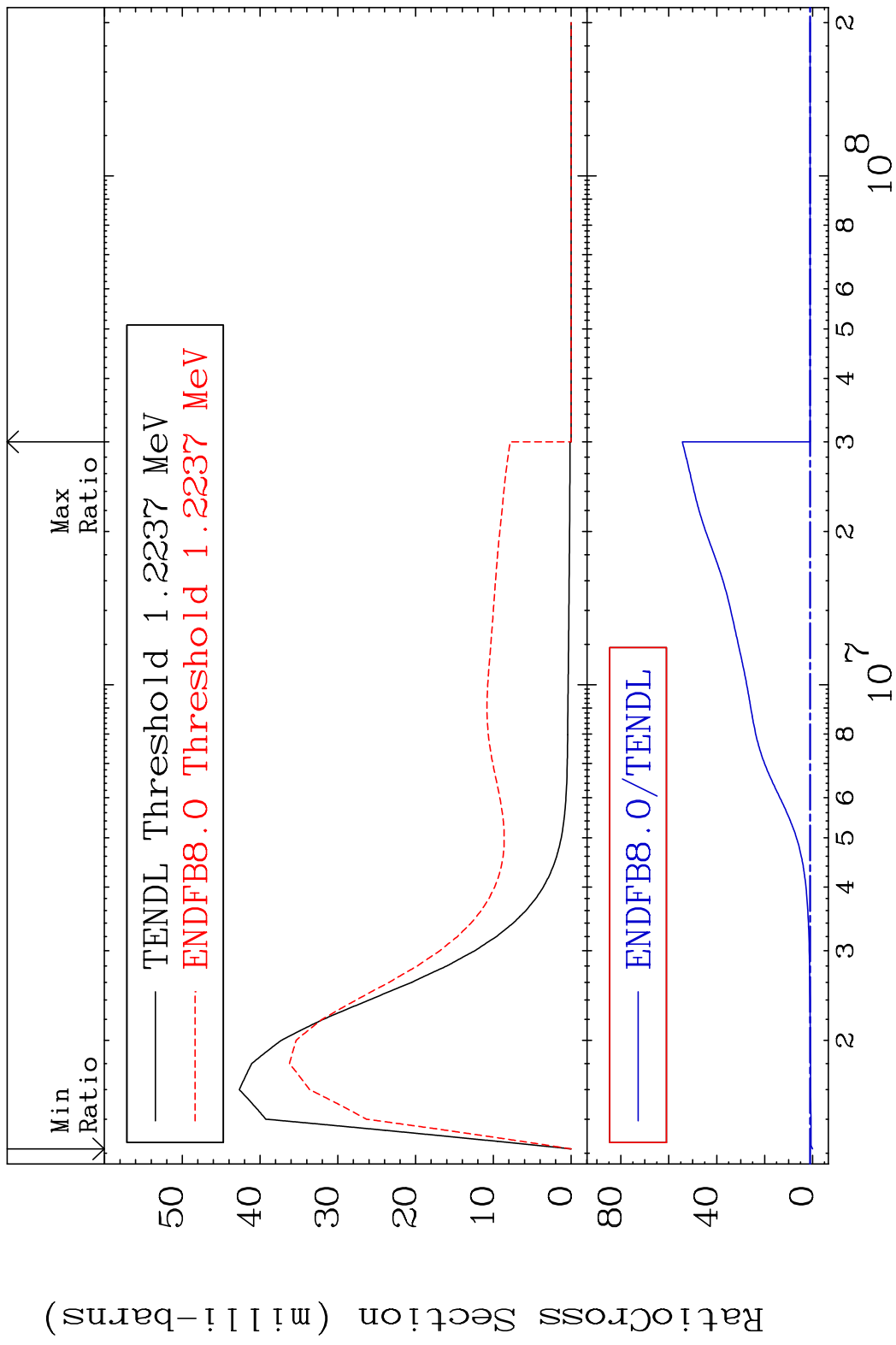
MAT 6143 MT= 65 (n, n') Level 61-Pm-145
 Cross Section -2.771 To 203.8 %



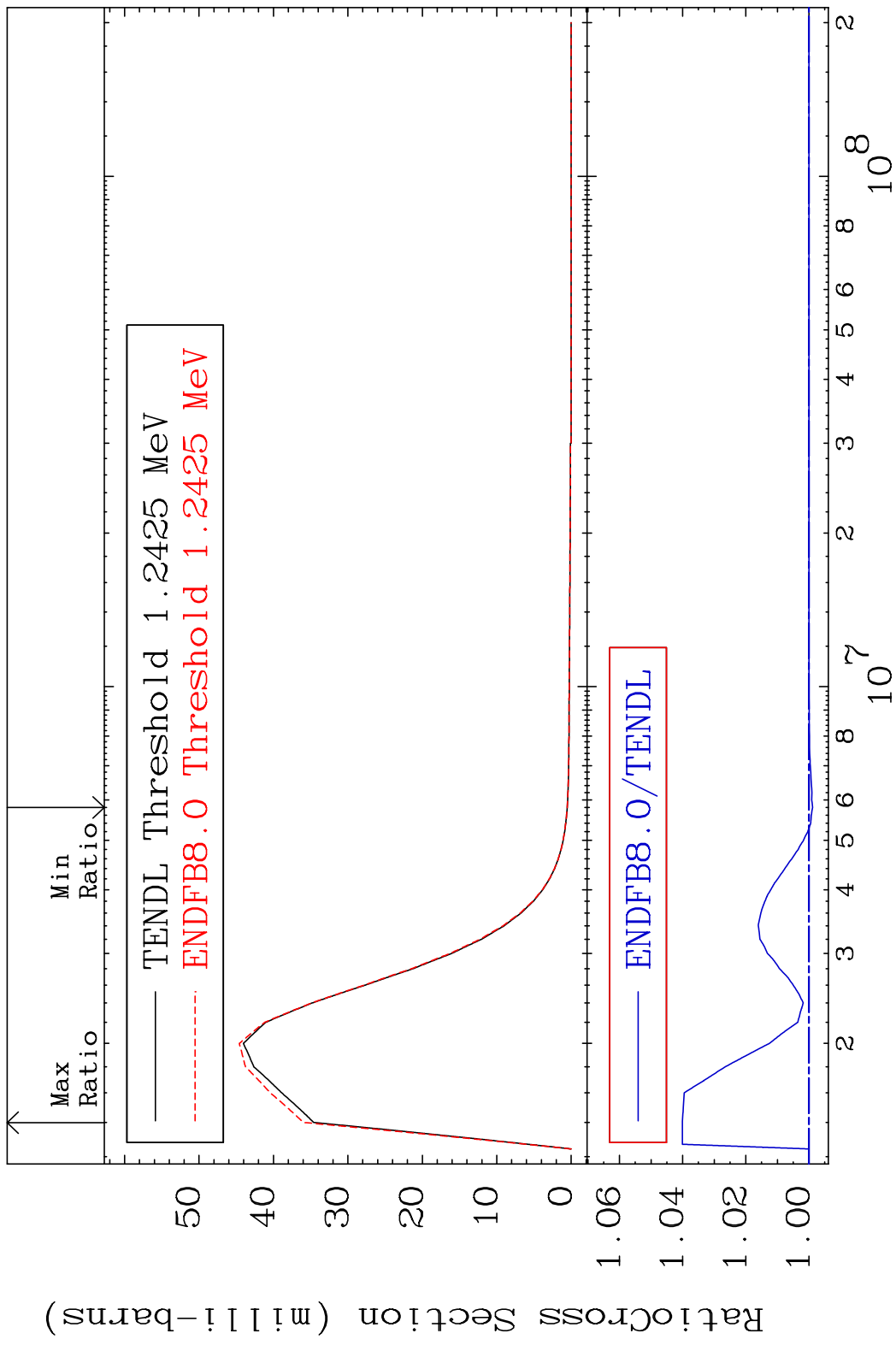
MAT 6143 MT= 66 (n, n') Level 61-Pm-145
 Cross Section -8.984 To 41.19 %



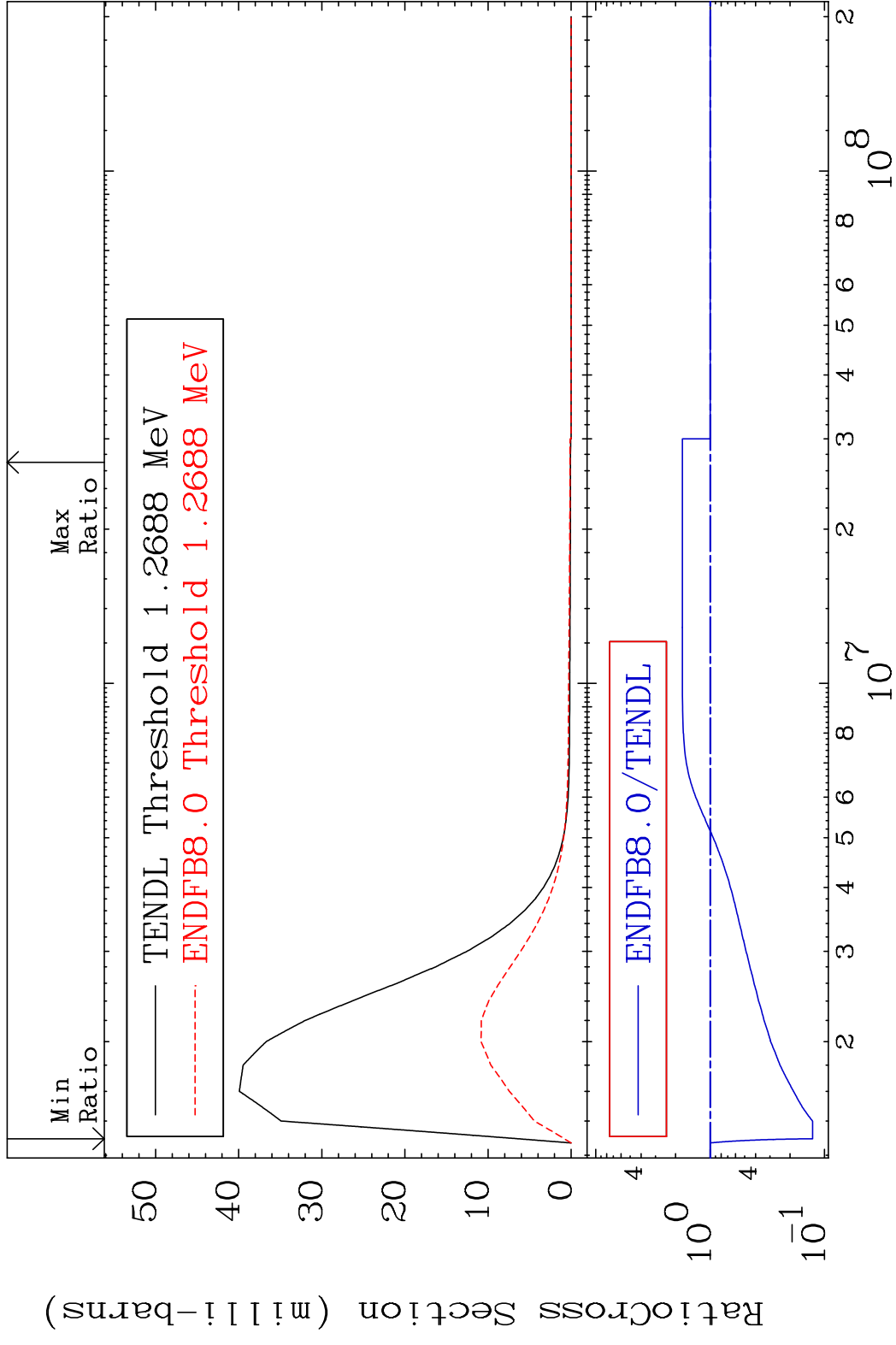
MAT 6143 MT= 67 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 5334. %



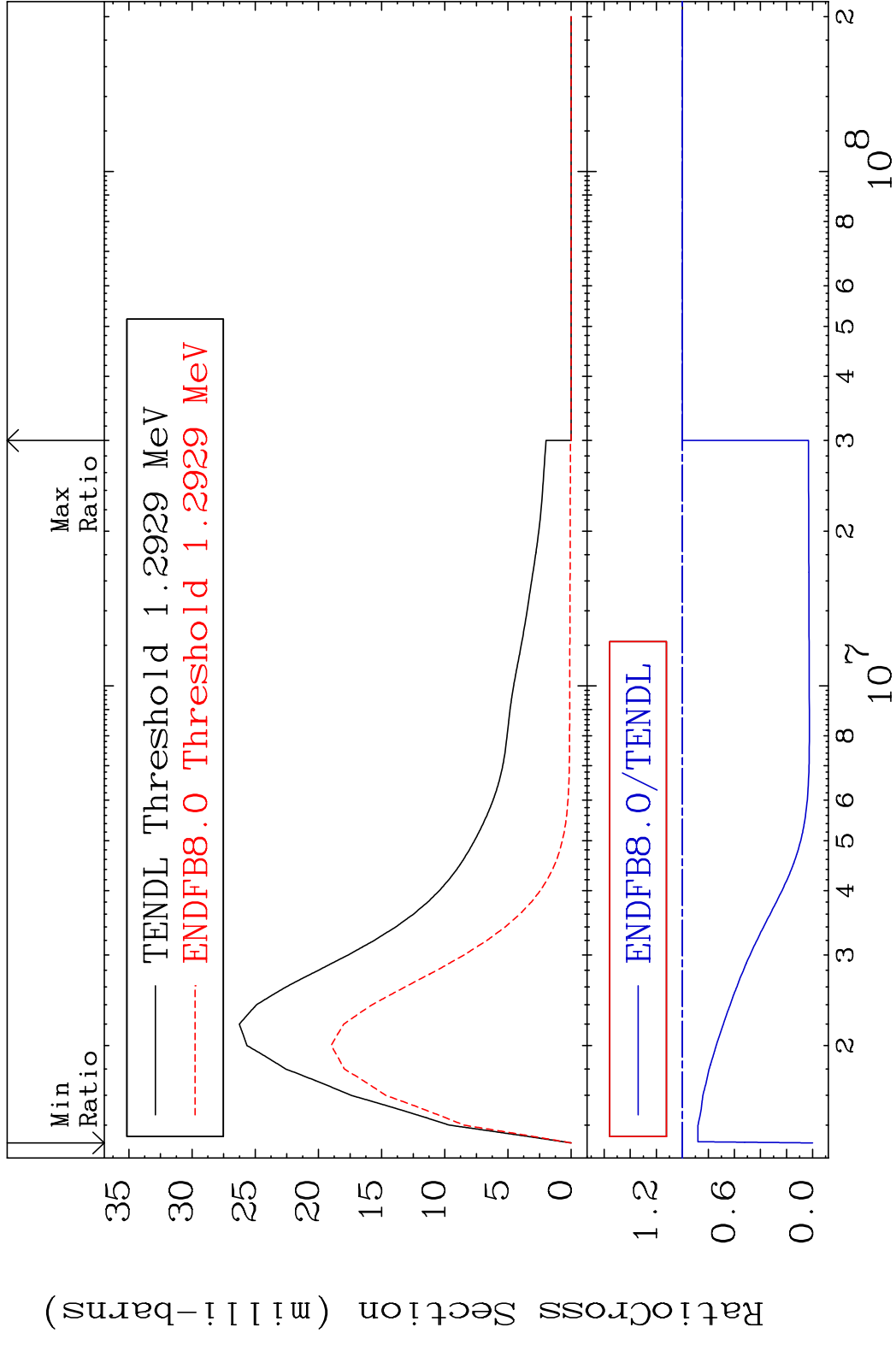
MAT 6143 MT= 68 (n,n') Level 61-Pm-145
 Cross Section -0.114 To 4.009 %



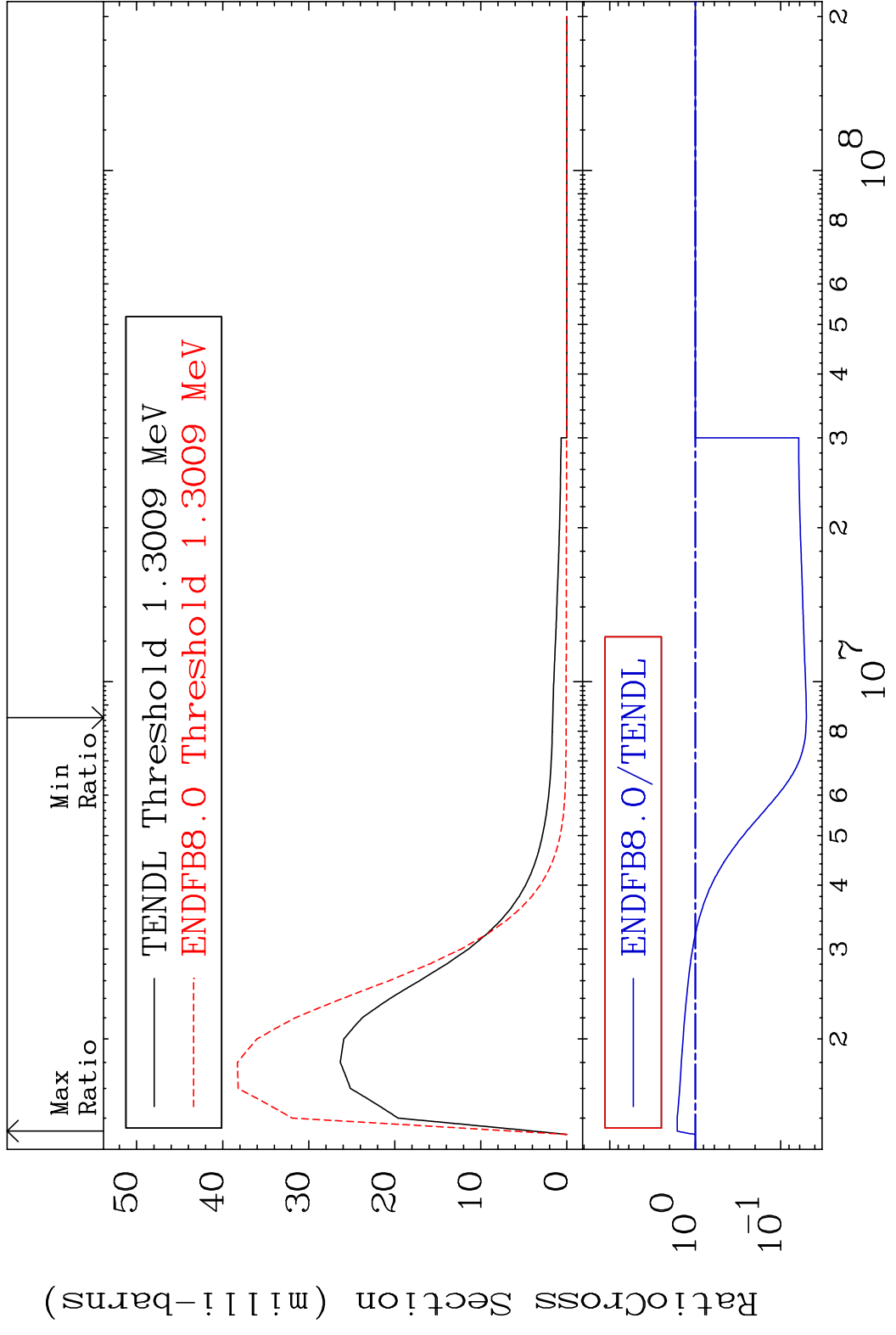
MAT 6143 MT= 69 (n, n') Level 61-Pm-145
 Cross Section -87.27 To 74.79 %



MAT 6143 MT= 70 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 0.000 %

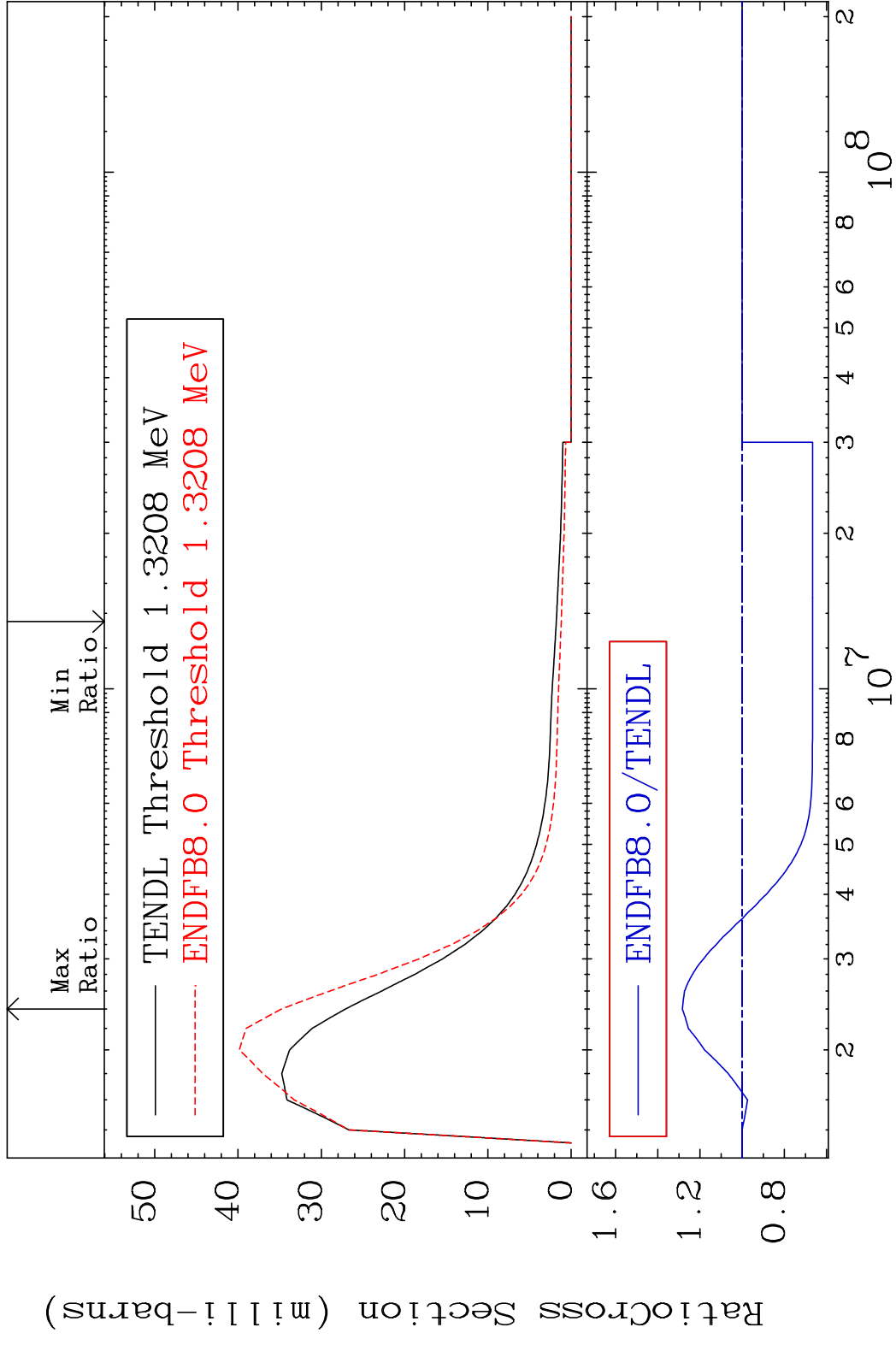


MAT 6143 MT= 71 (n, n') Level 61-Pm-145
 Cross Section -94.99 To 62.76 %

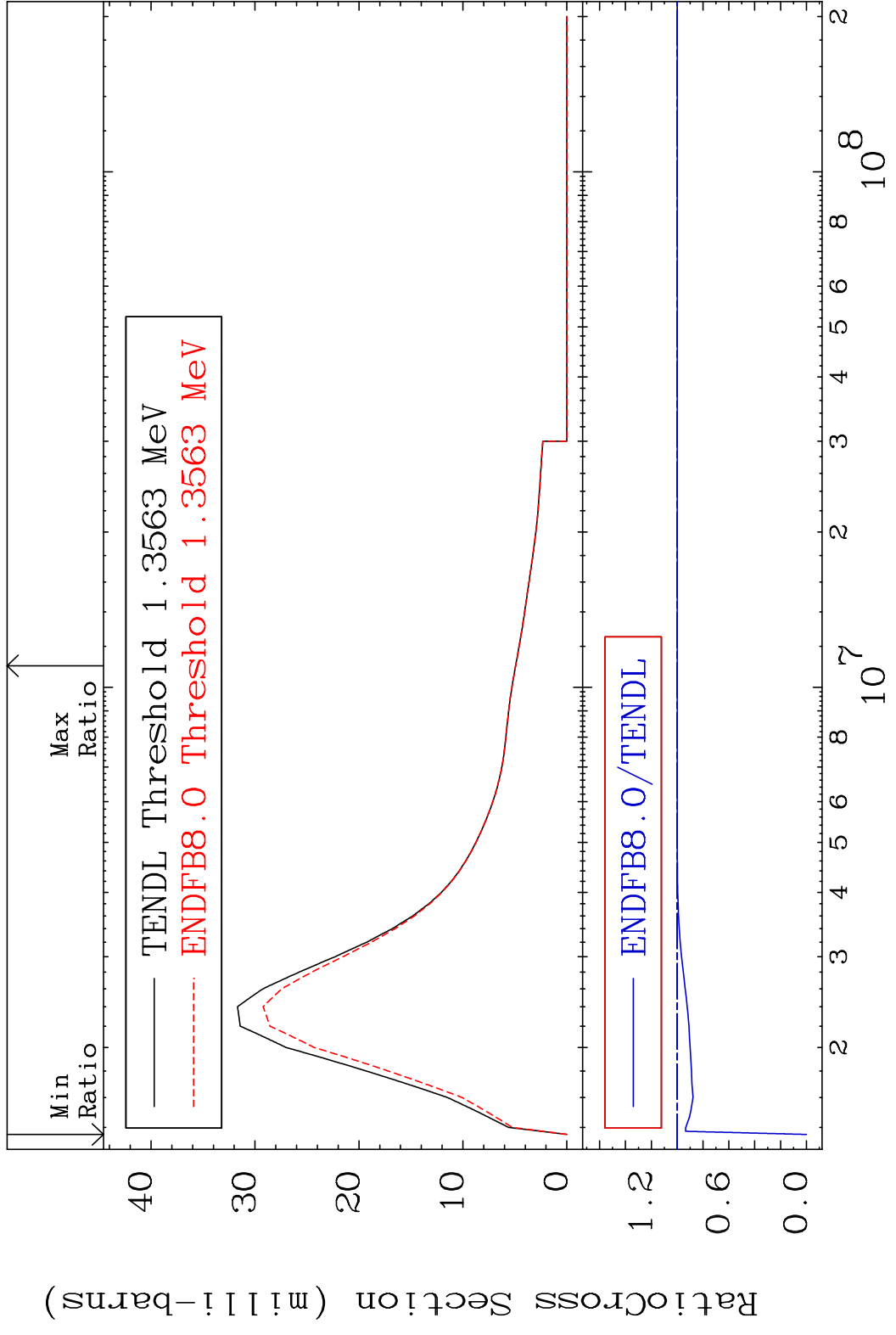


40 2 8 10 8 2

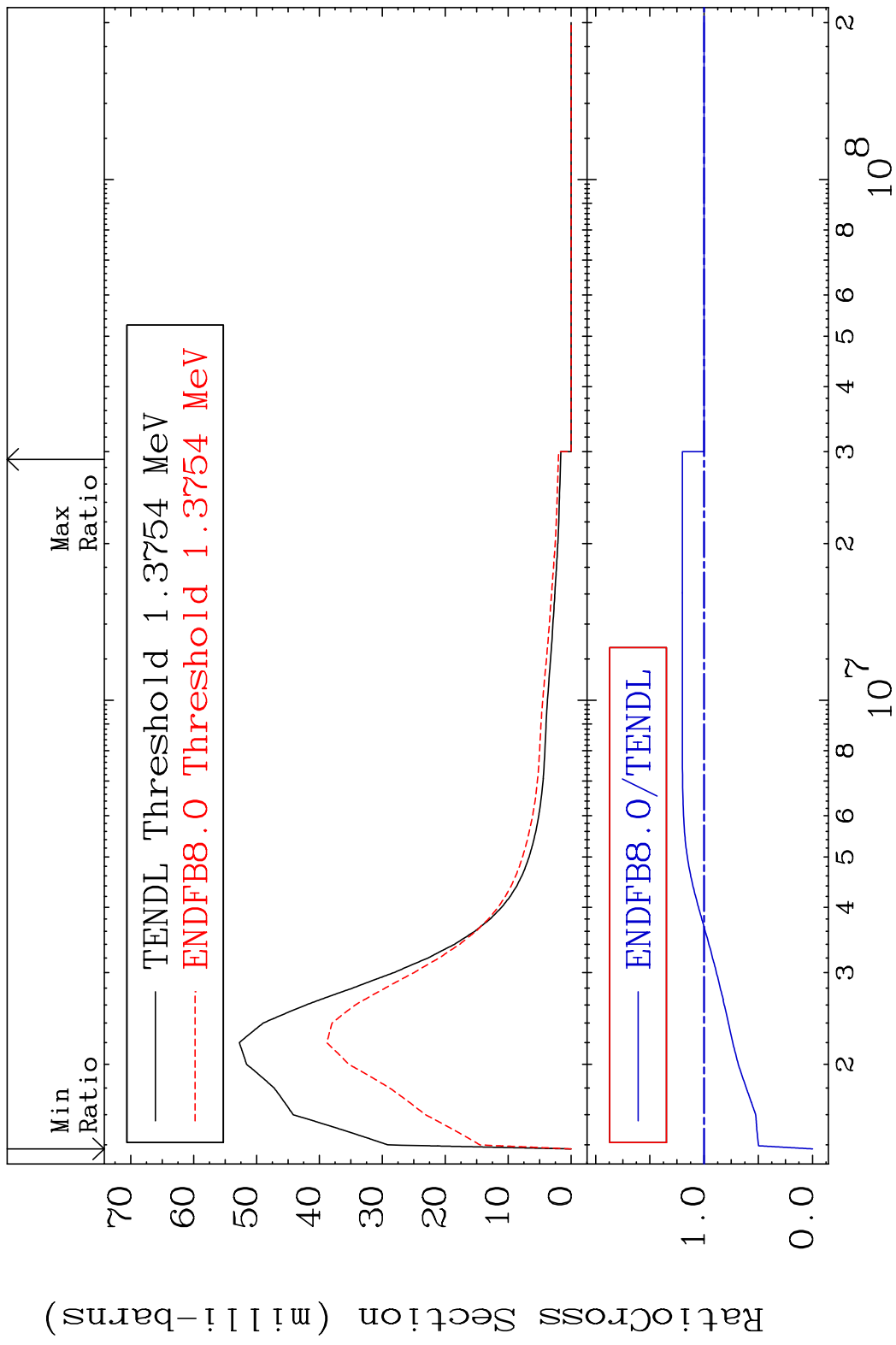
MAT 6143 MT= 72 (n, n') Level 61-Pm-145
 Cross Section -33.35 To 28.35 %



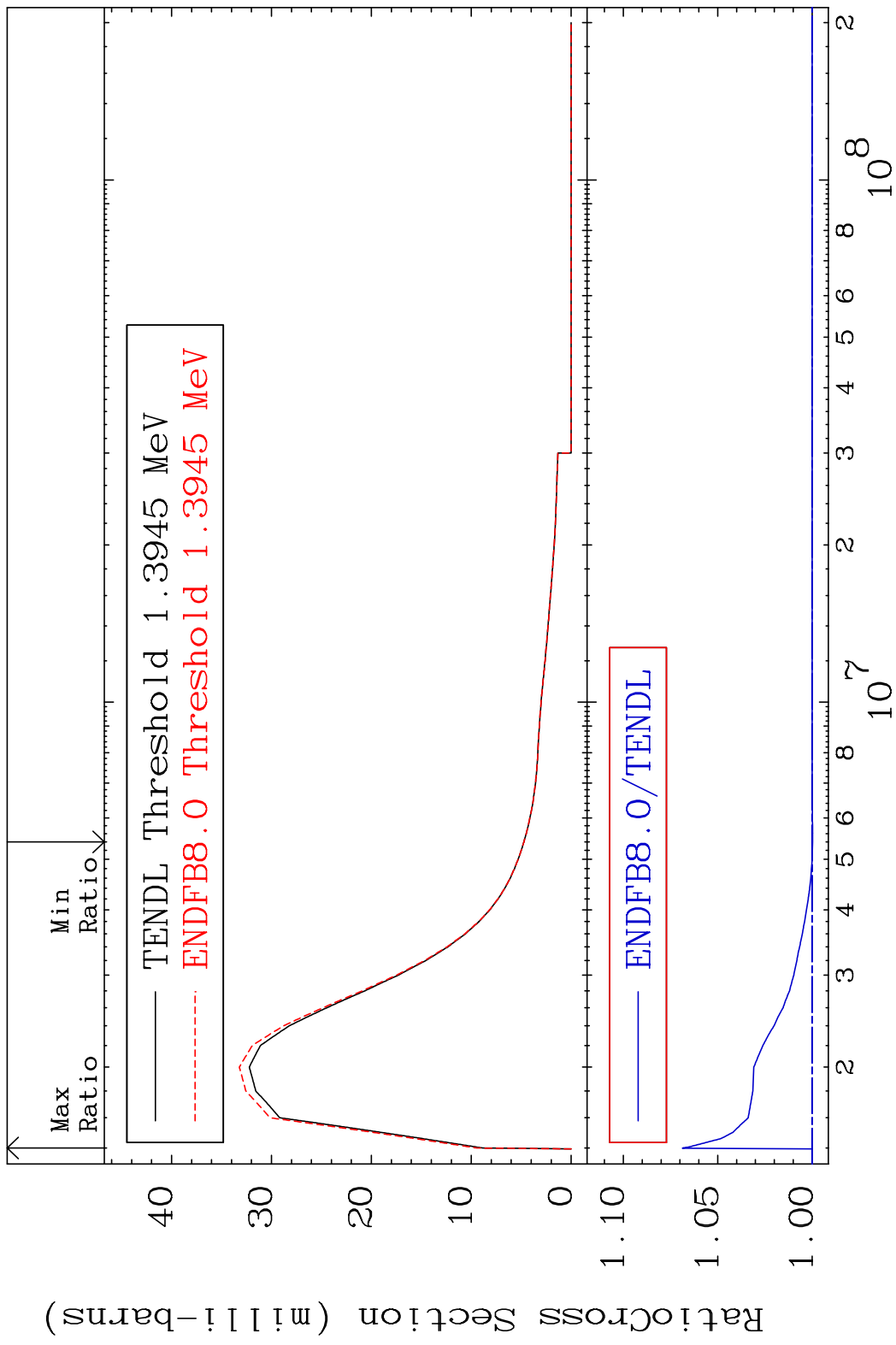
MAT 6143 MT= 73 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 0.000 %



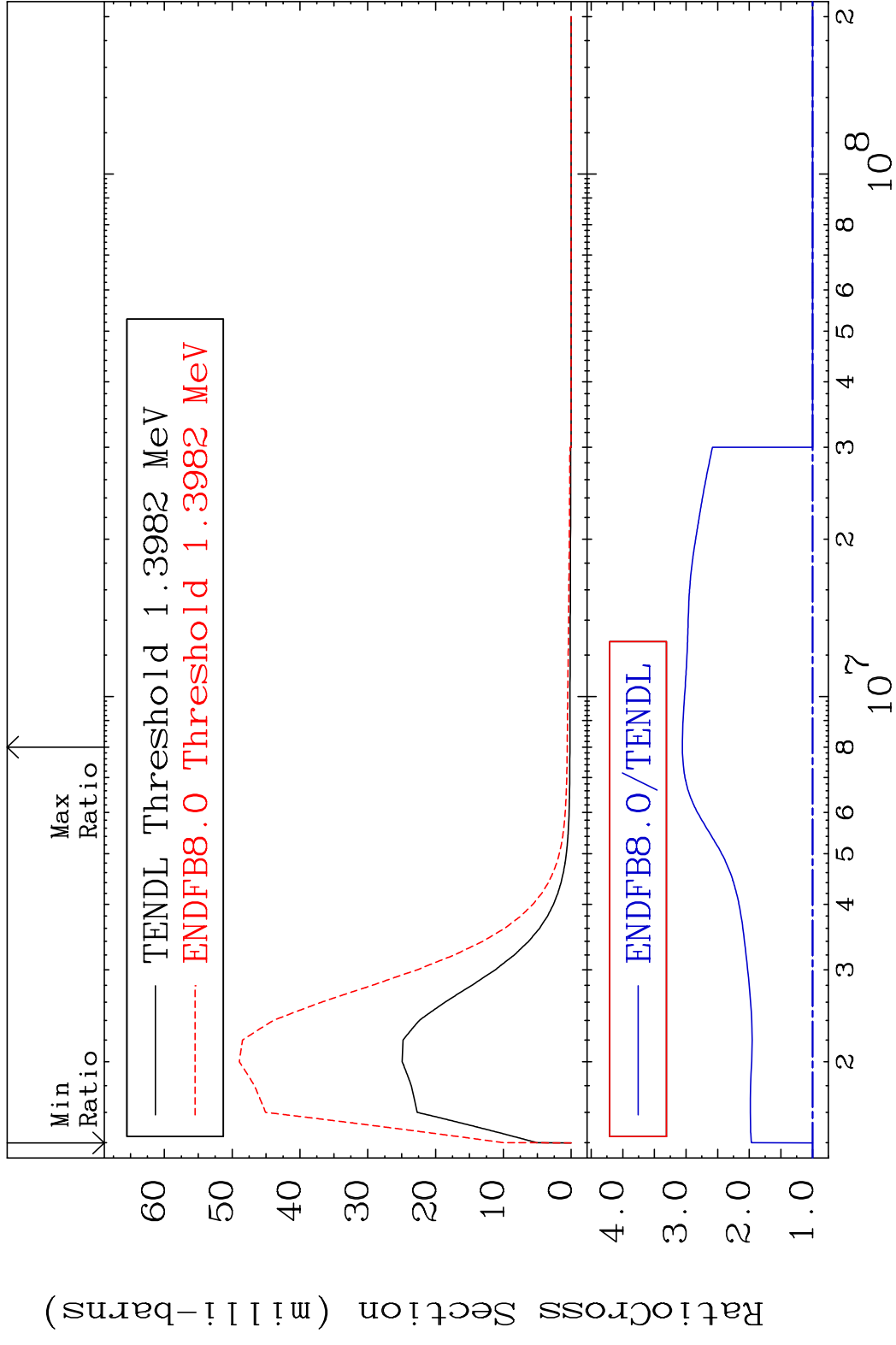
MAT 6143 MT= 74 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 20.05 %



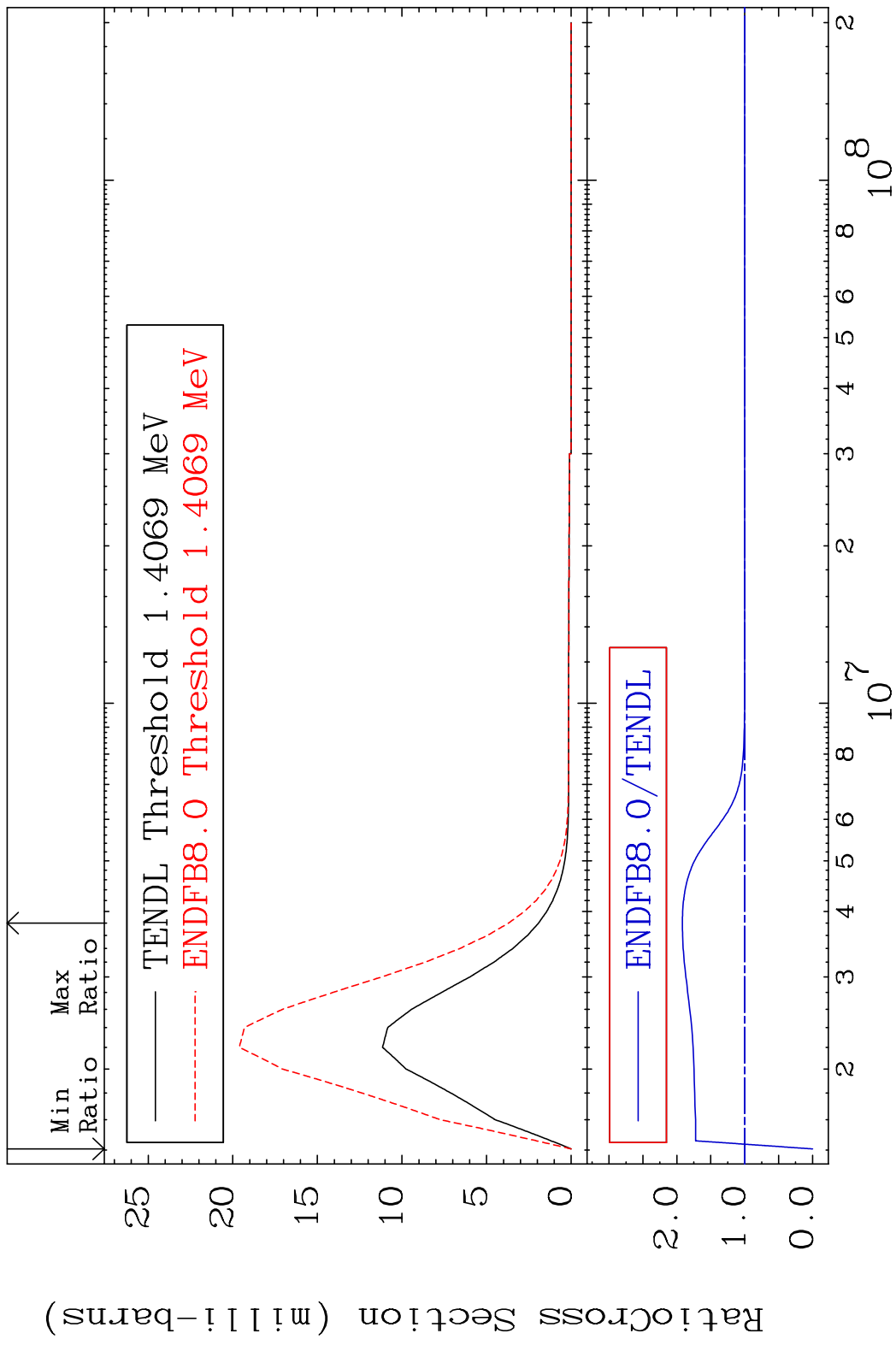
MAT 6143 MT= 75 (n, n') Level 61-Pm-145
 Cross Section -0.024 To 6.874 %



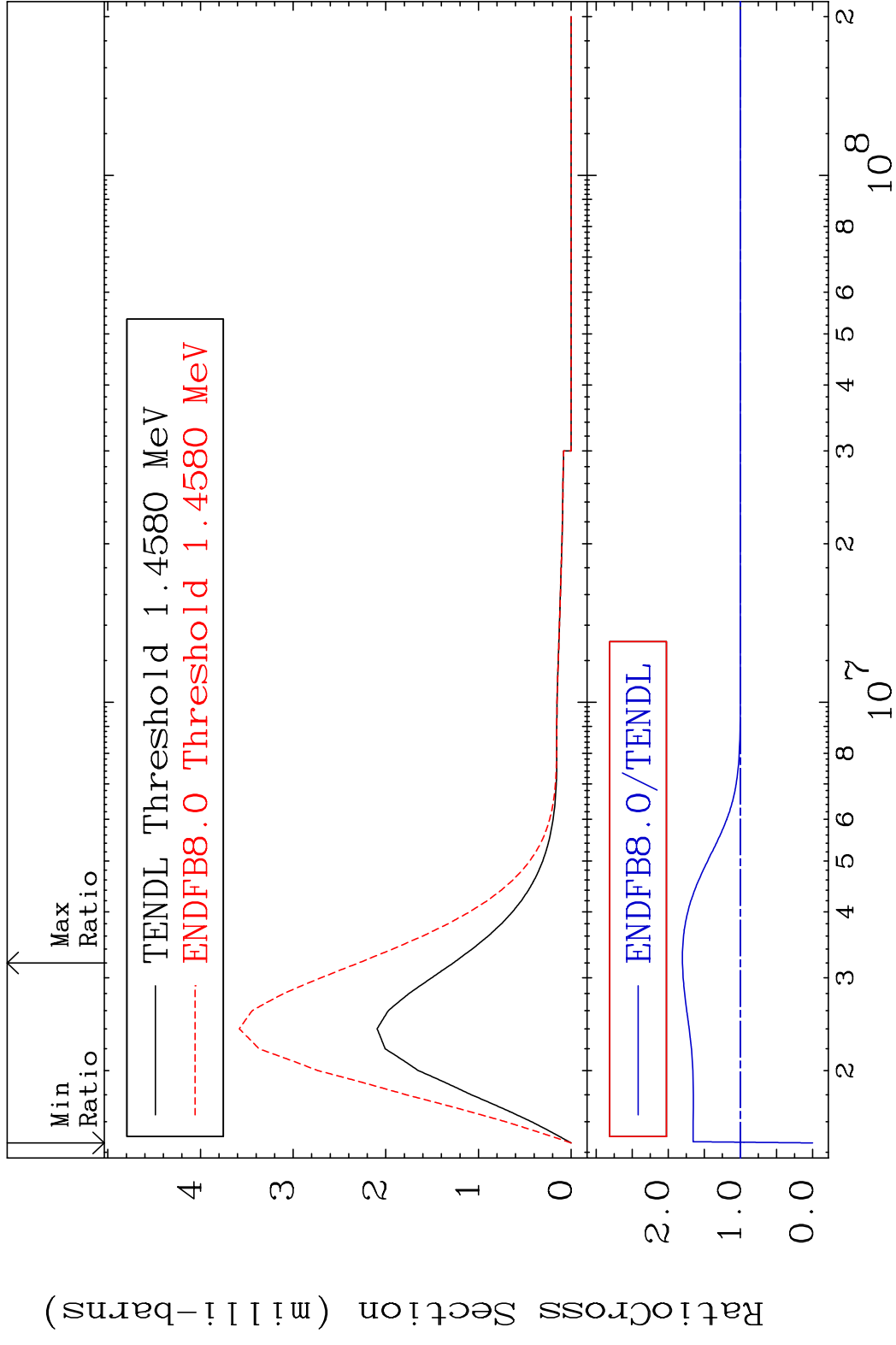
MAT 6143 MT= 76 (n, n') Level 61-Pm-145
 Cross Section 0.000 To 205.9 %



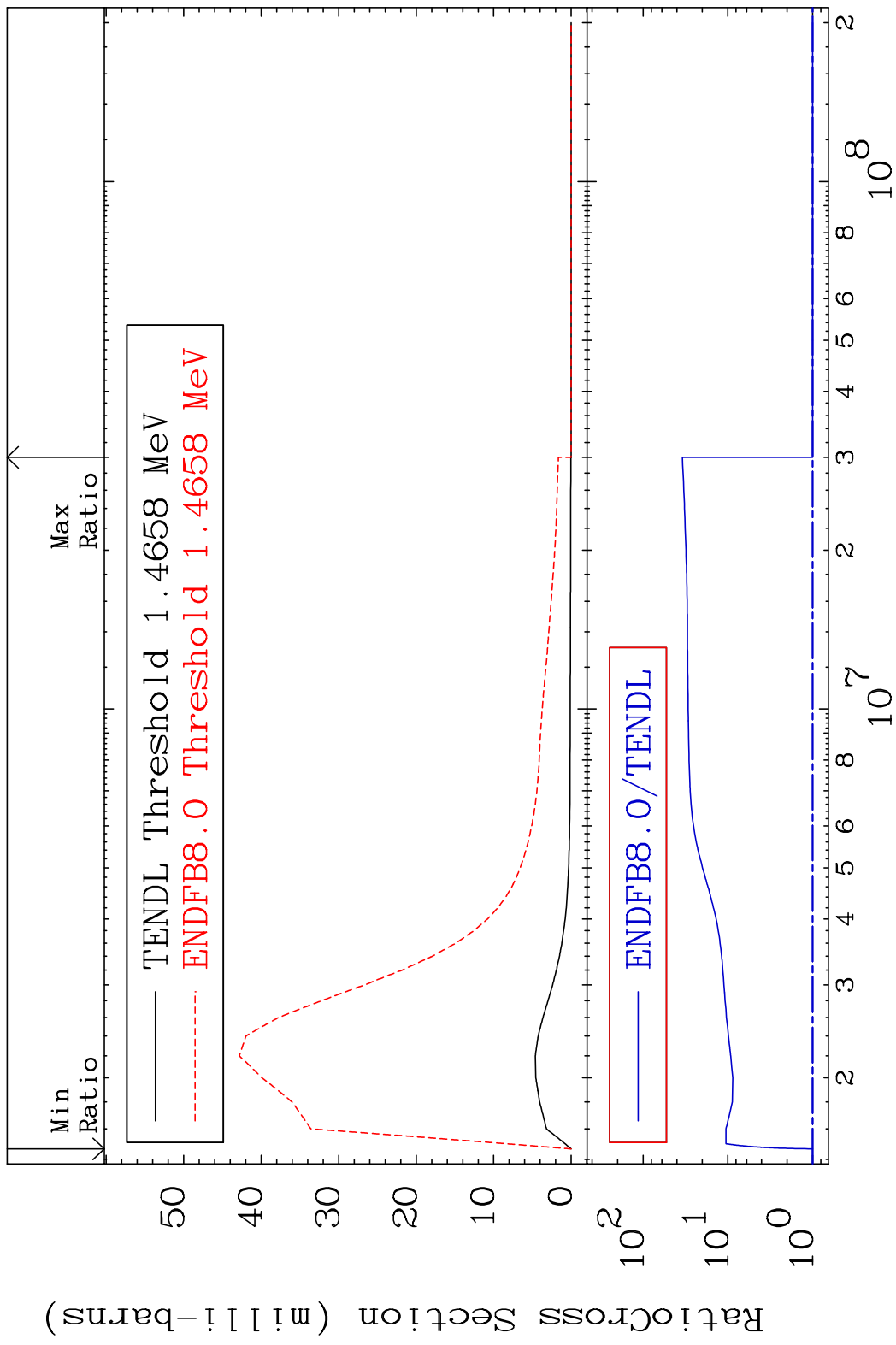
MAT 6143 MT= 77 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 91.89 %



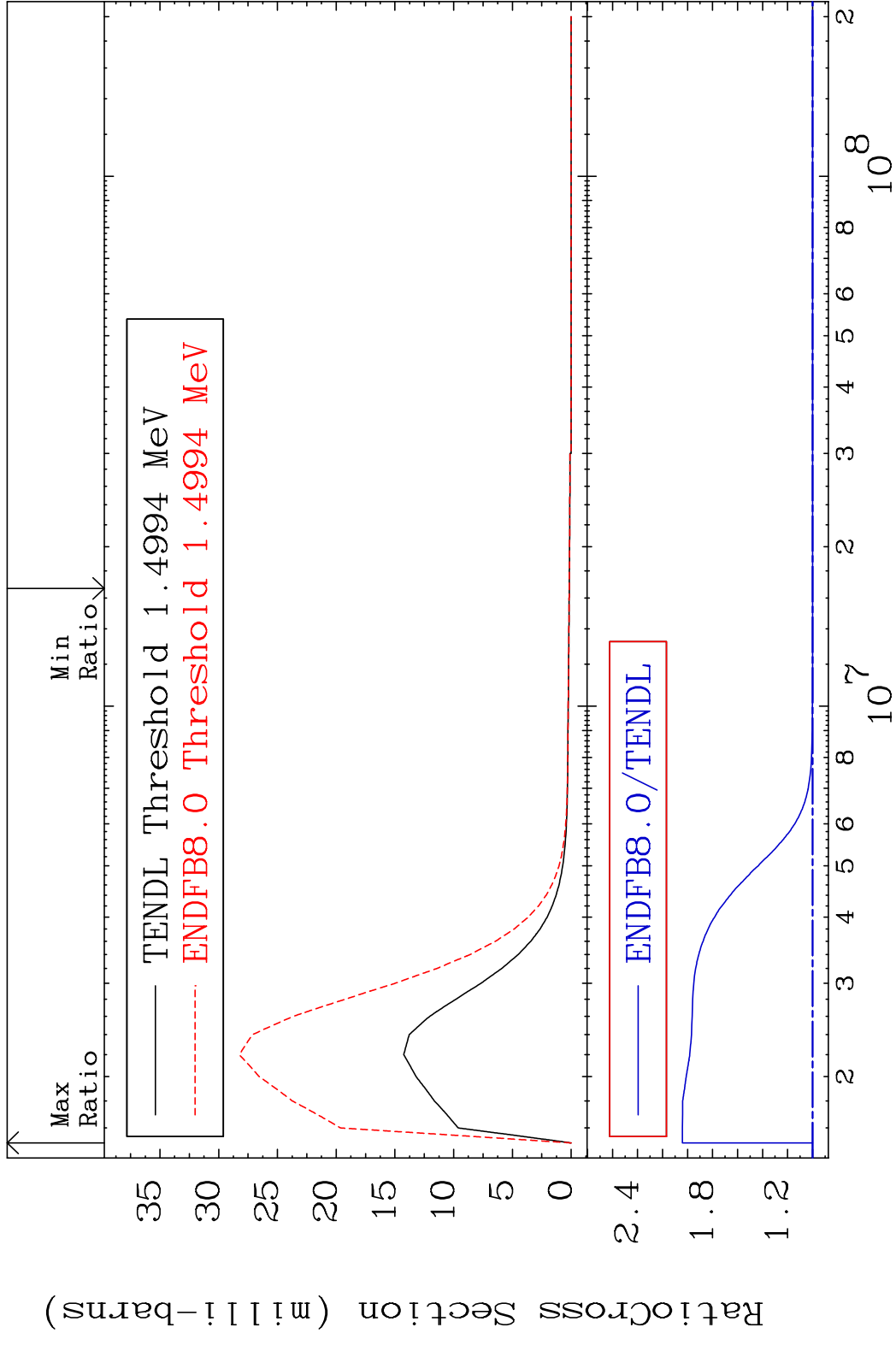
MAT 6143 MT= 78 (n, n') Level 61-Pm-145
 Cross Section -100.0 To 80.45 %



MAT 6143 MT= 79 (n, n') Level 61-Pm-145
 Cross Section 0.000 To 3343. %



MAT 6143 MT= 80 (n, n') Level 61-Pm-145
 Cross Section 0.000 To 104.2 %

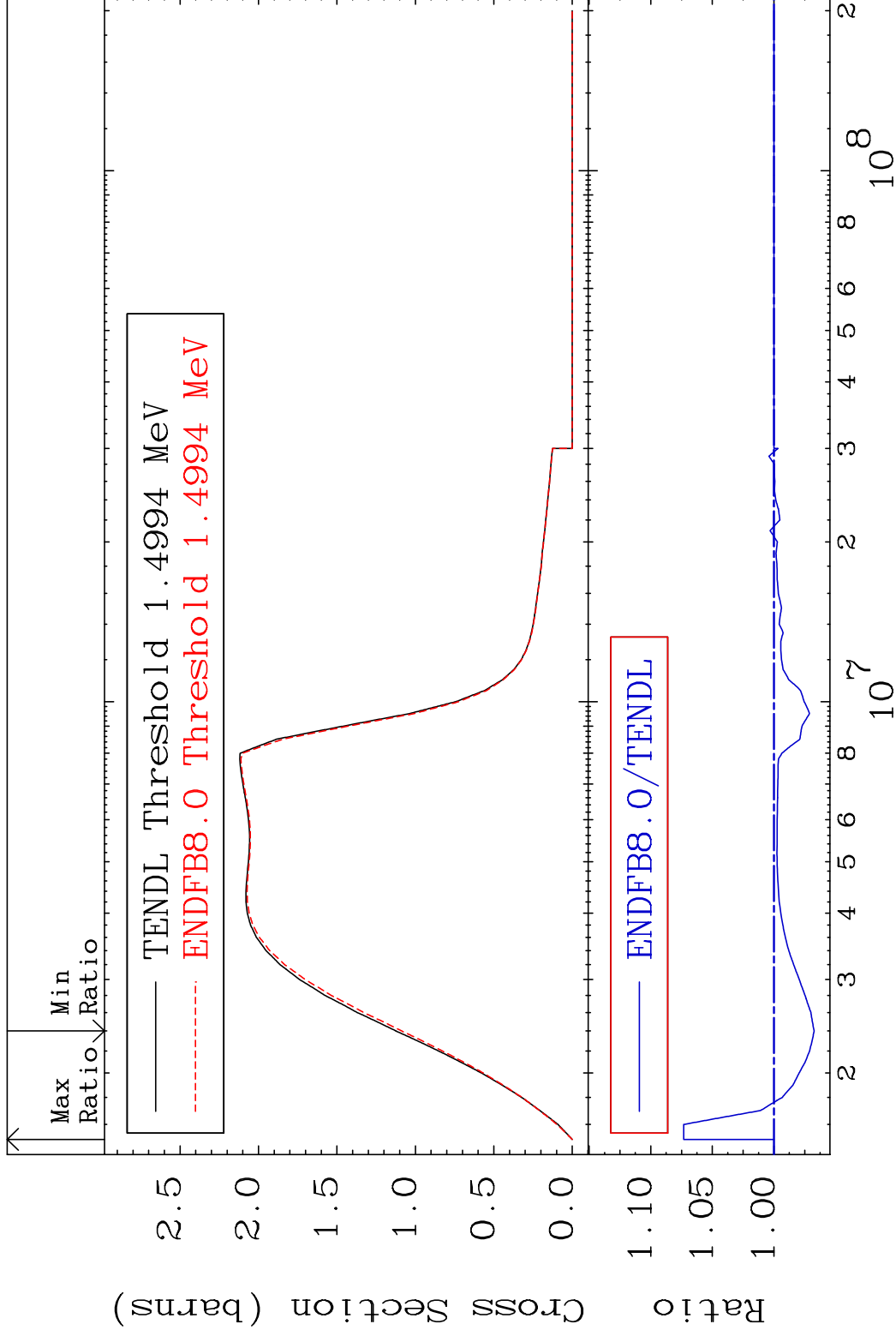


MAT 6143

(n,n') Continuum

61-Pm-145

Cross Section -3.259 To 7.328 %



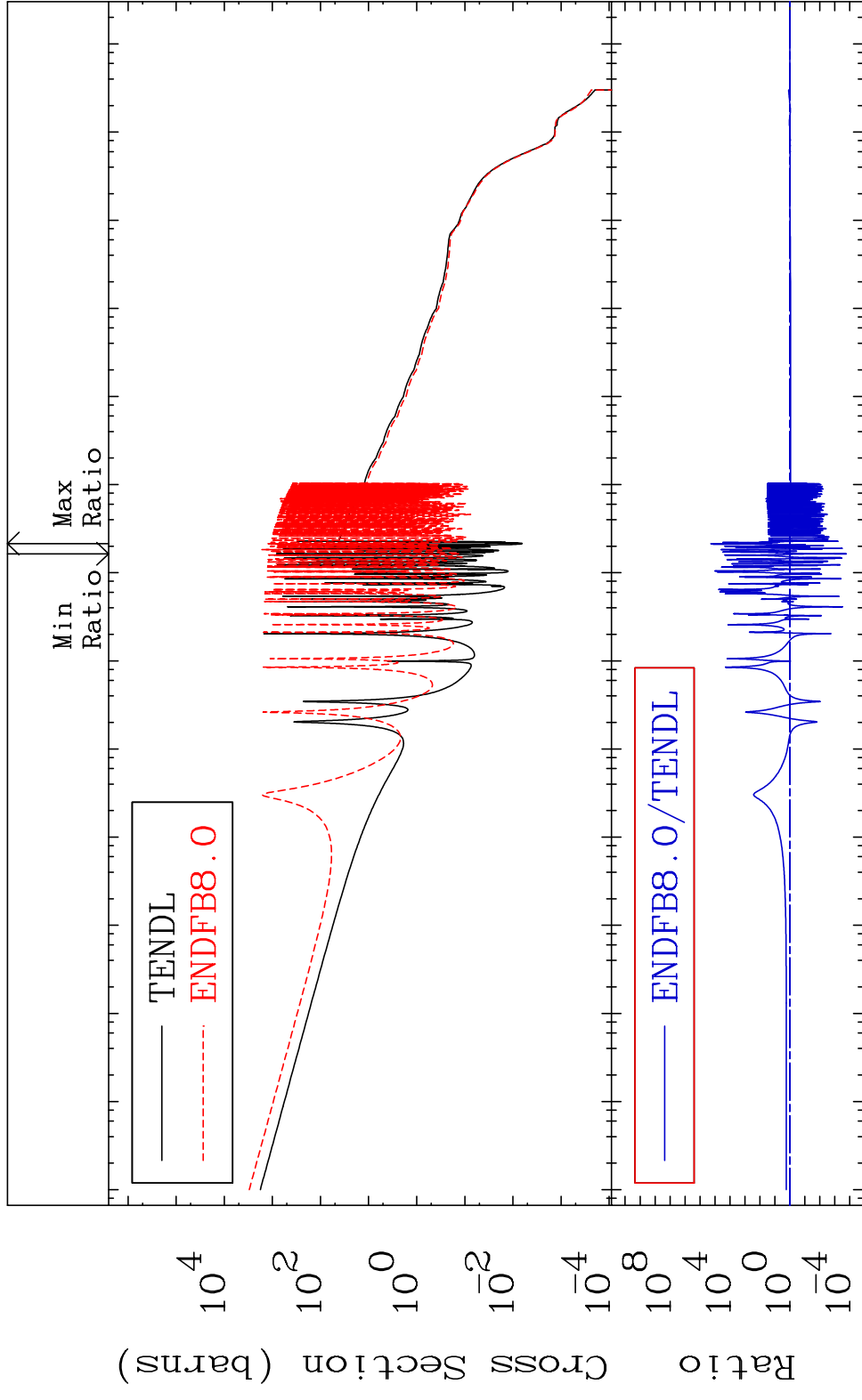
50

Incident Energy (eV)

61-Pm-145

MAT 6143

(n, γ)
Cross Section -99.98 To 9999. %
61-Pm-145

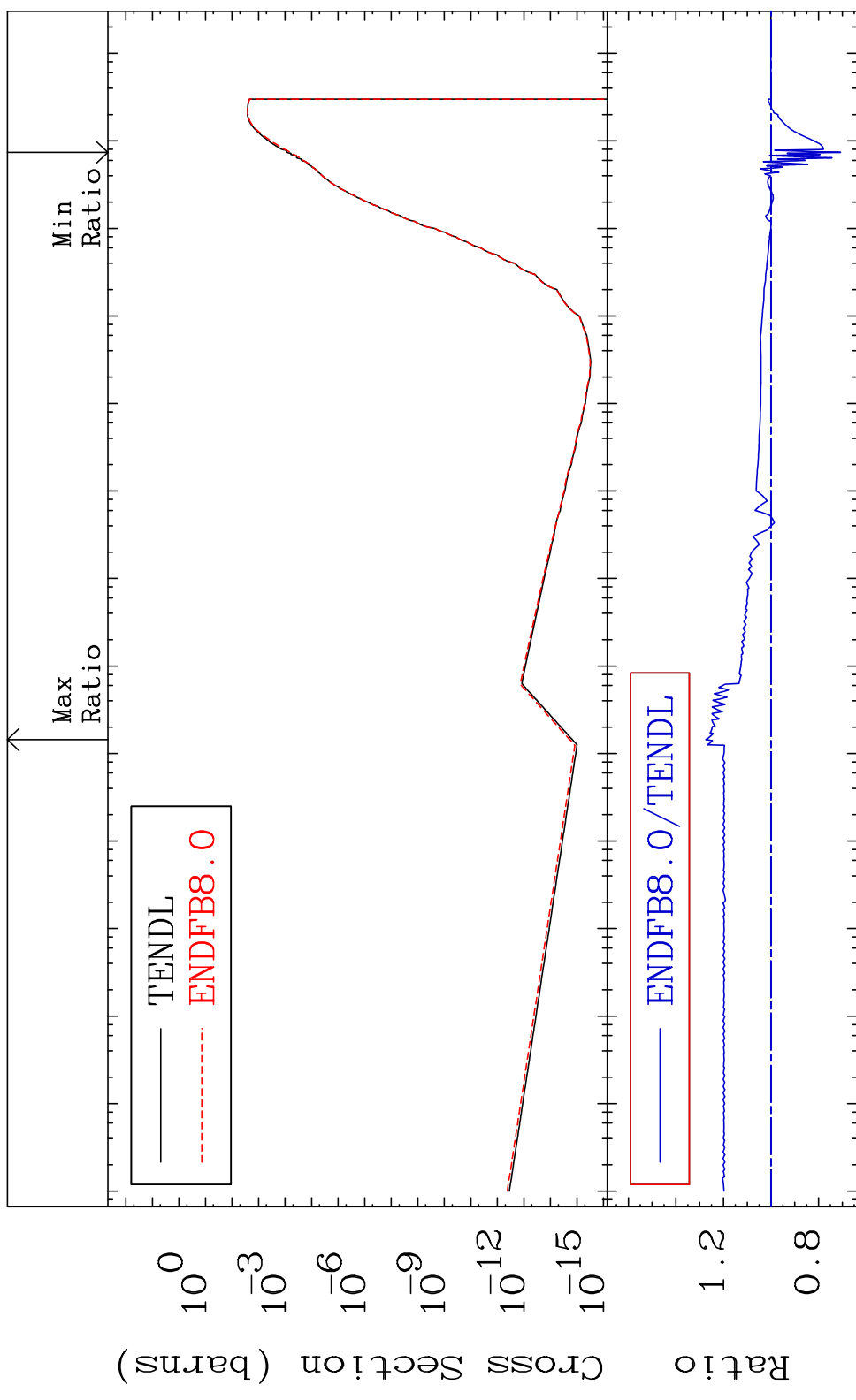


MAT 6143

(n, p)

61-Pm-145

Cross Section -29.19 To 27.43 %



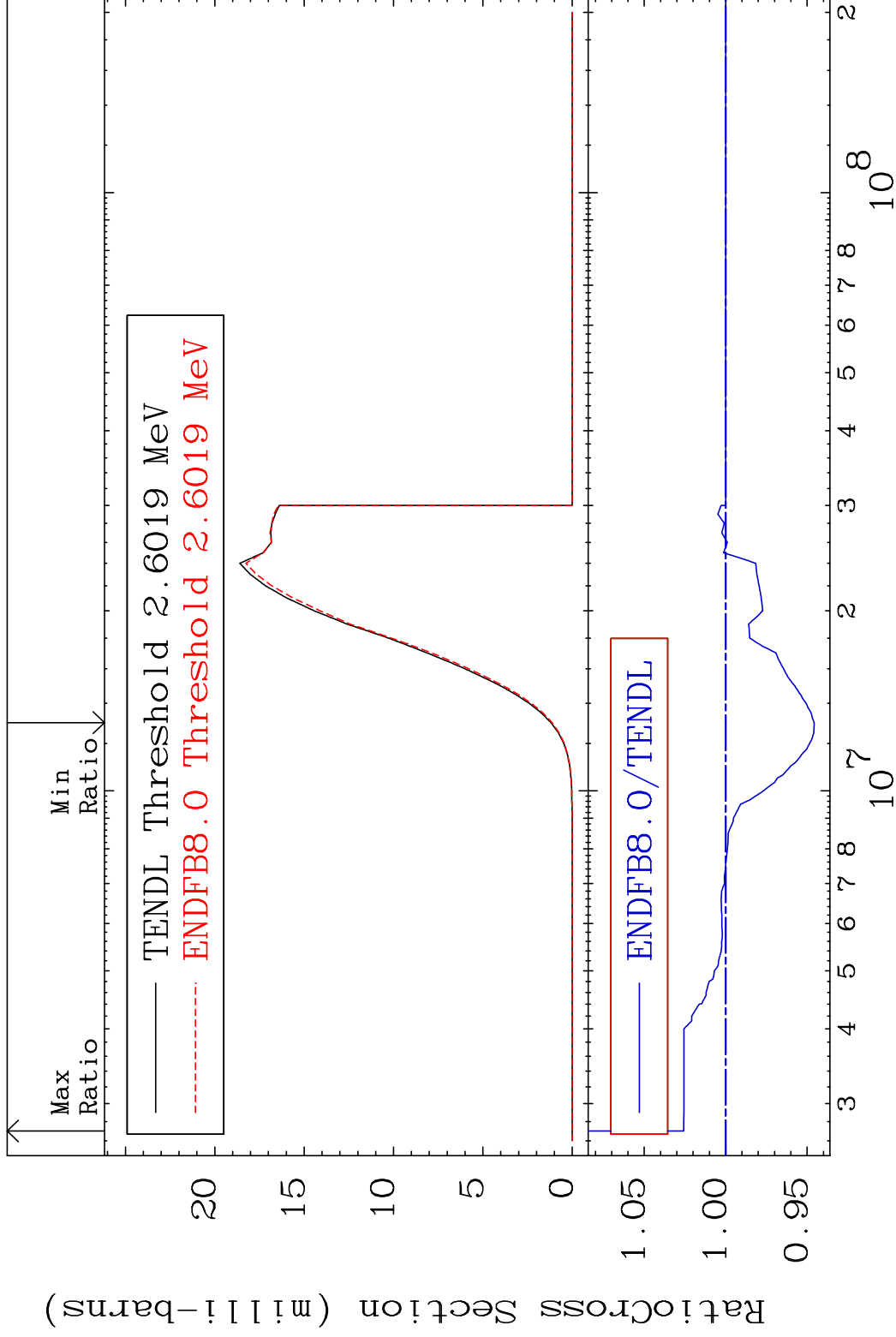
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 6143

(n, d)

61-Pm-145

Cross Section -5.429 To 2.581 %



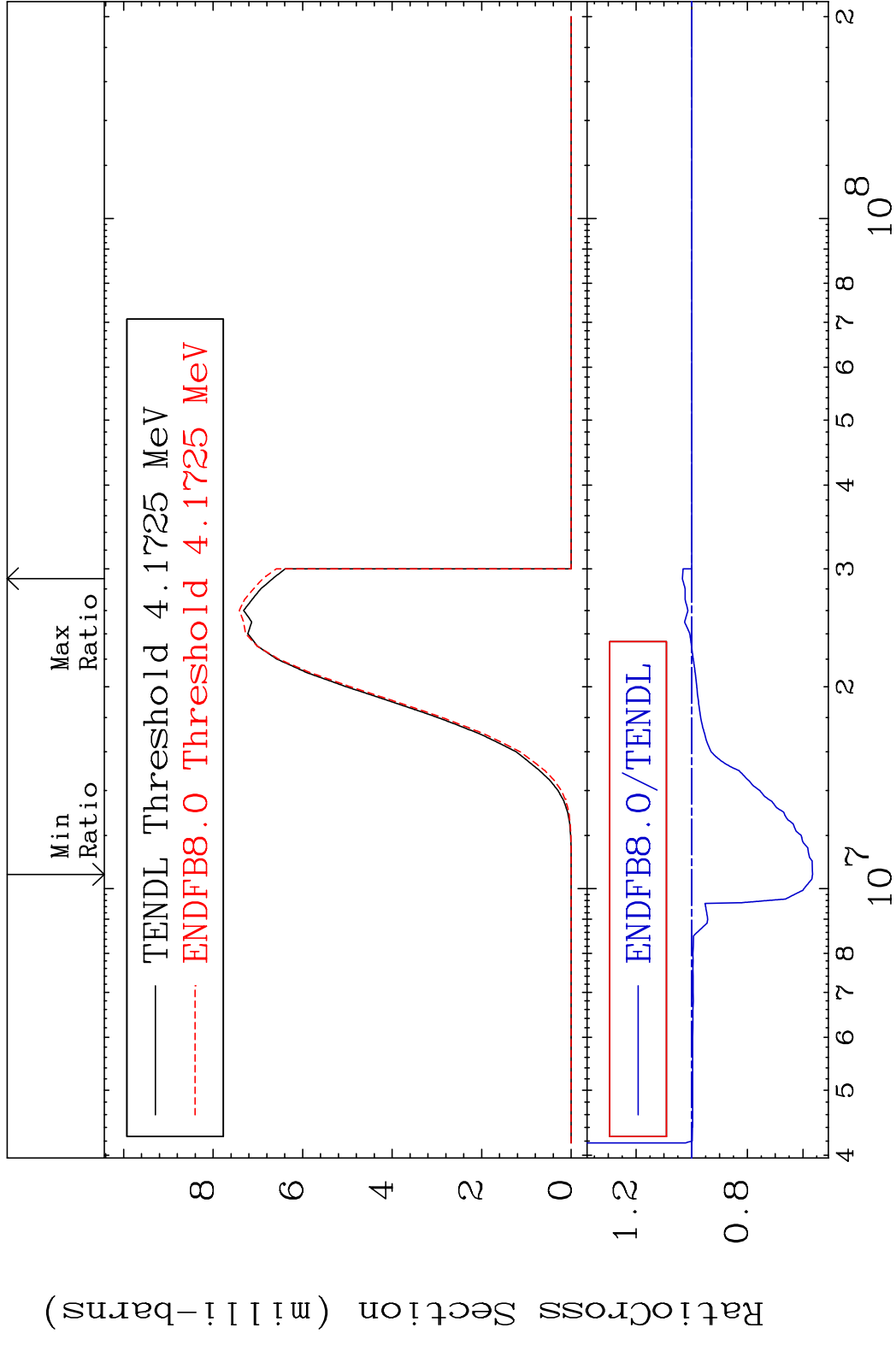
53

Incident Energy (eV)

61-Pm-145

MAT 6143

(n, t) 61-Pm-145
Cross Section -43.47 To 3.342 %

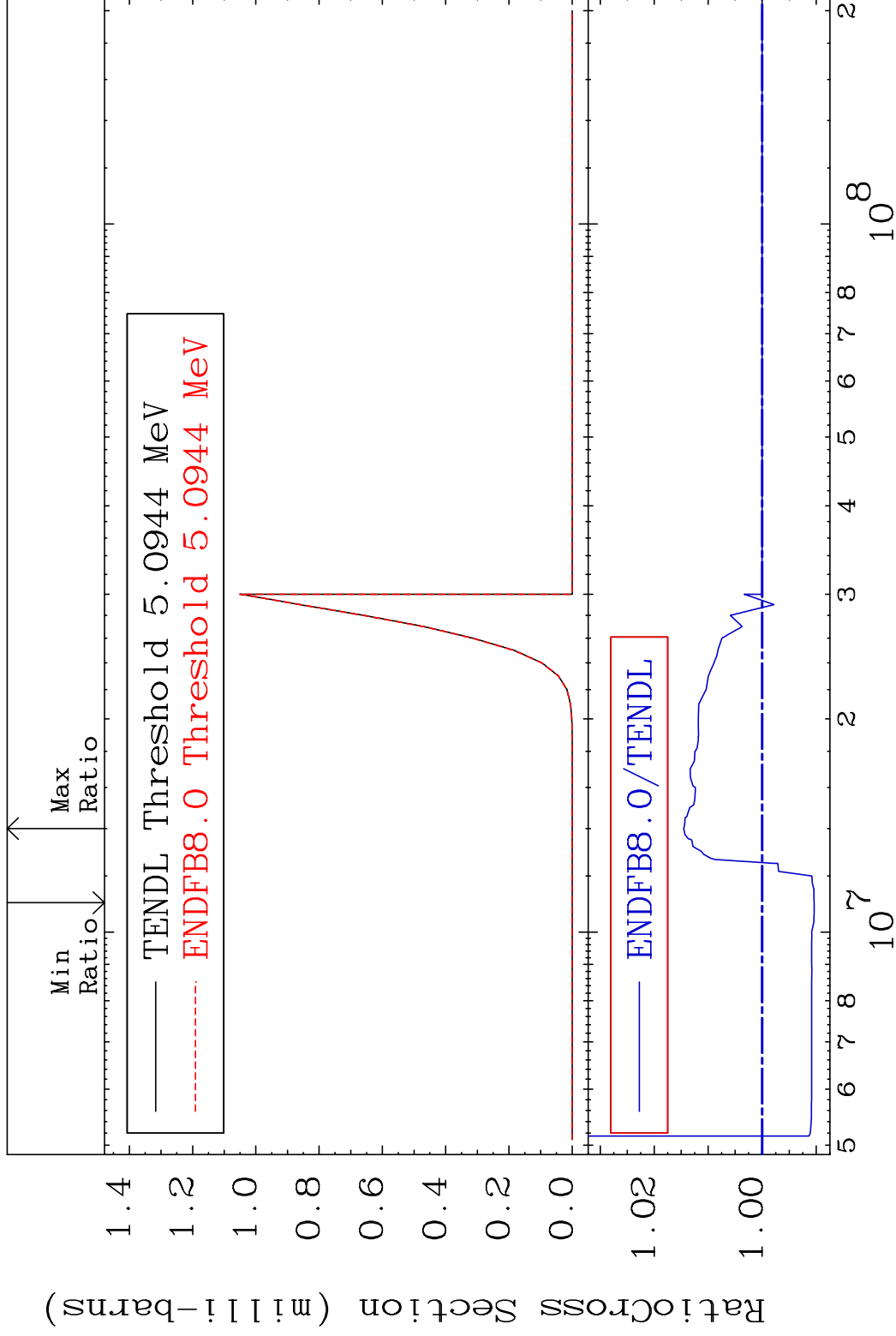


MAT 6143

(n, He-3)

61-Pm-145

Cross Section -0.963 To 1.456 %



55

Incident Energy (eV)

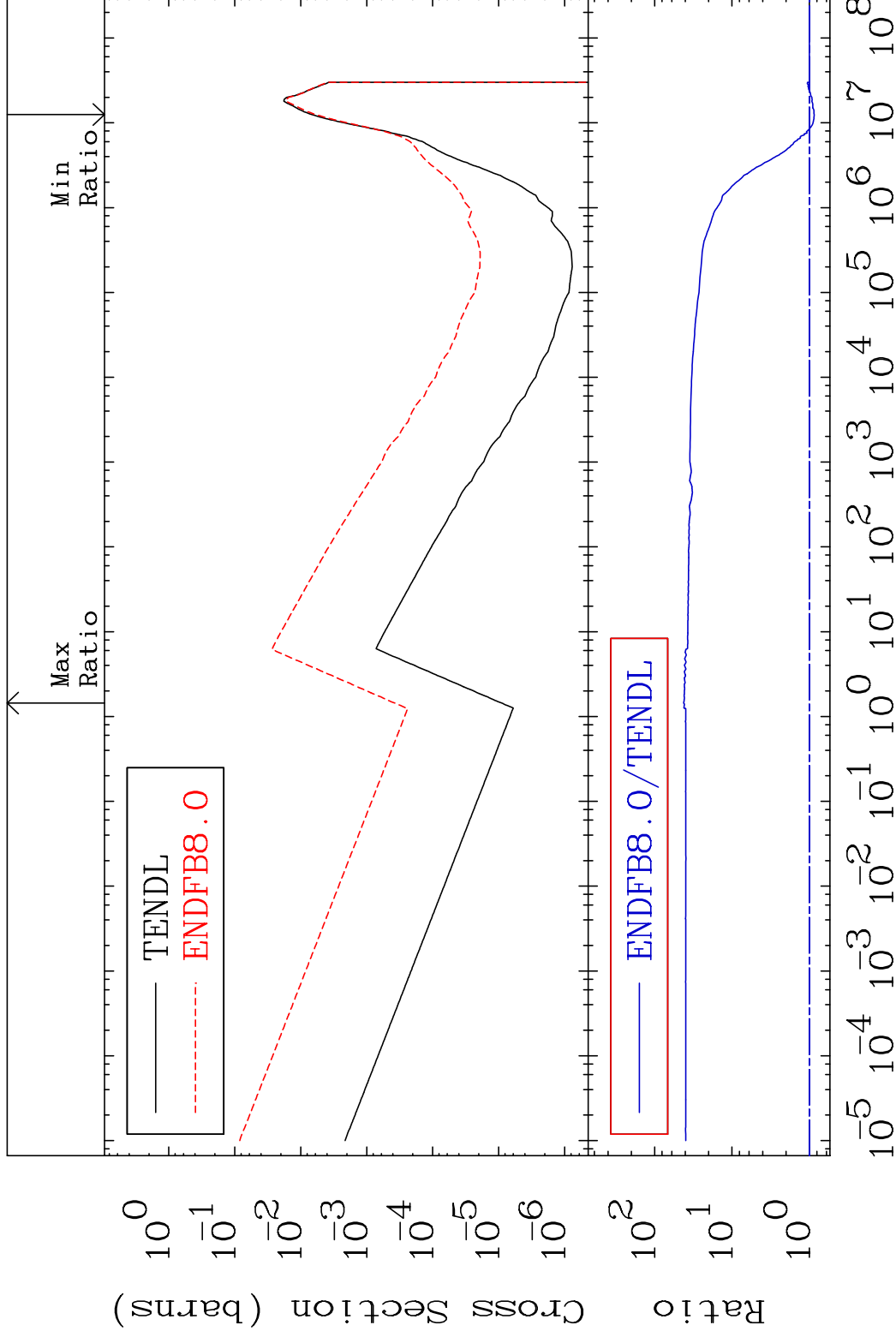
61-Pm-145

MAT 6143

(n, α)

61-Pm-145

Cross Section -13.11 To 4109. %



56

Incident Energy (eV)

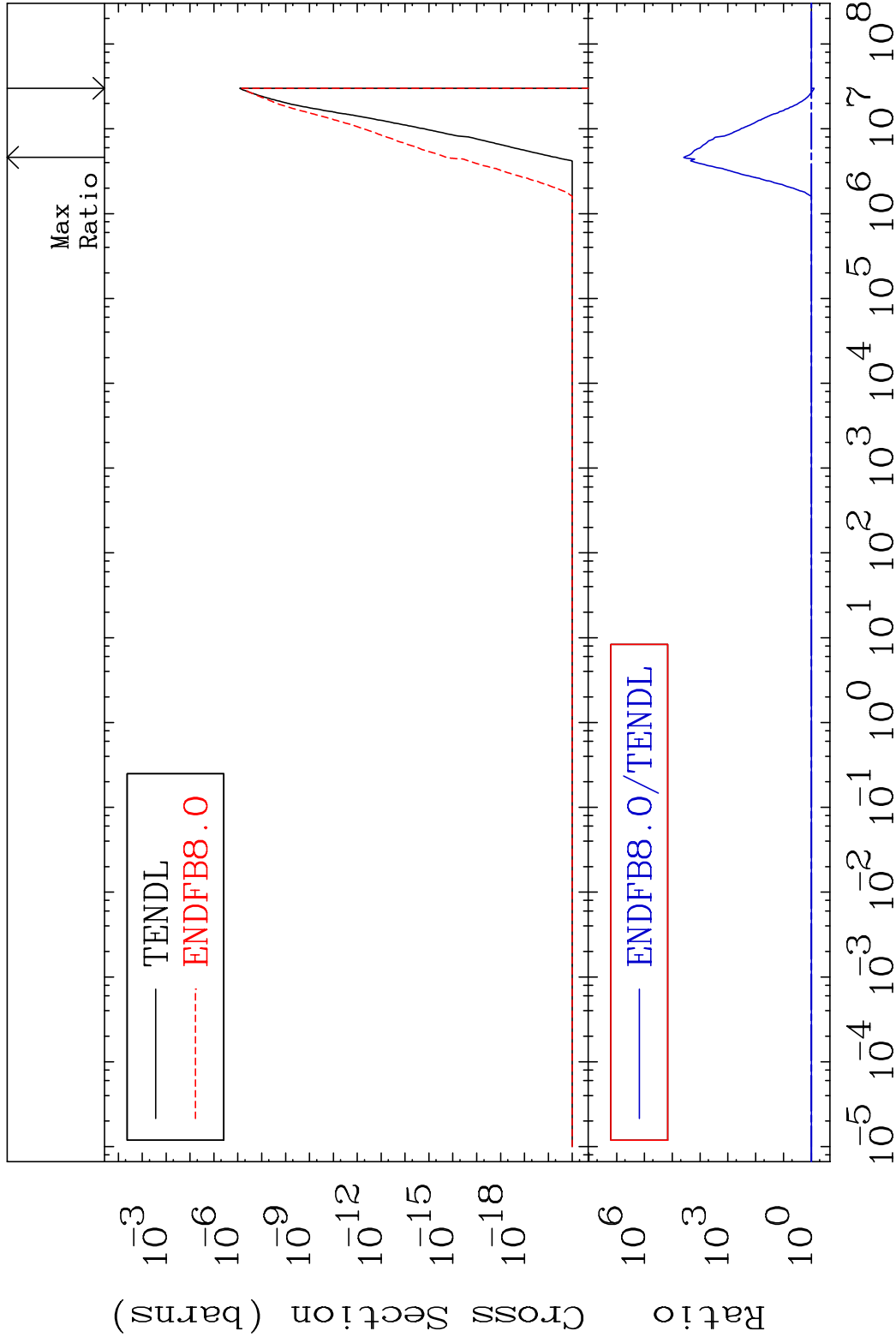
61-Pm-145

MAT 6143

(n, 2α)

61-Pm-145

Cross Section -20.41 To 9999. %

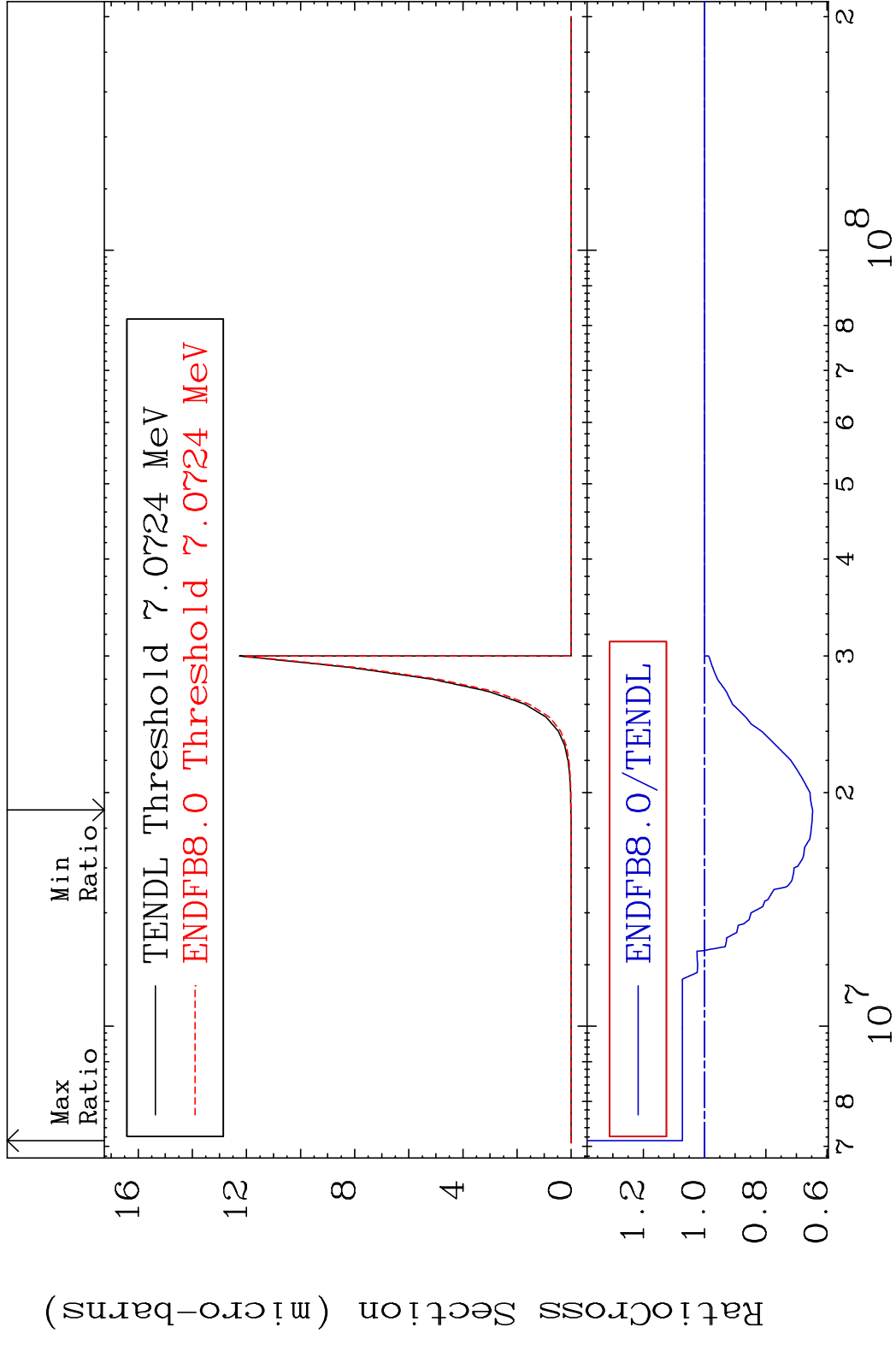


57

Incident Energy (eV)

61-Pm-145

MAT 6143 (n,2p) 61-Pm-145
 Cross Section -35.30 To 7.259 %

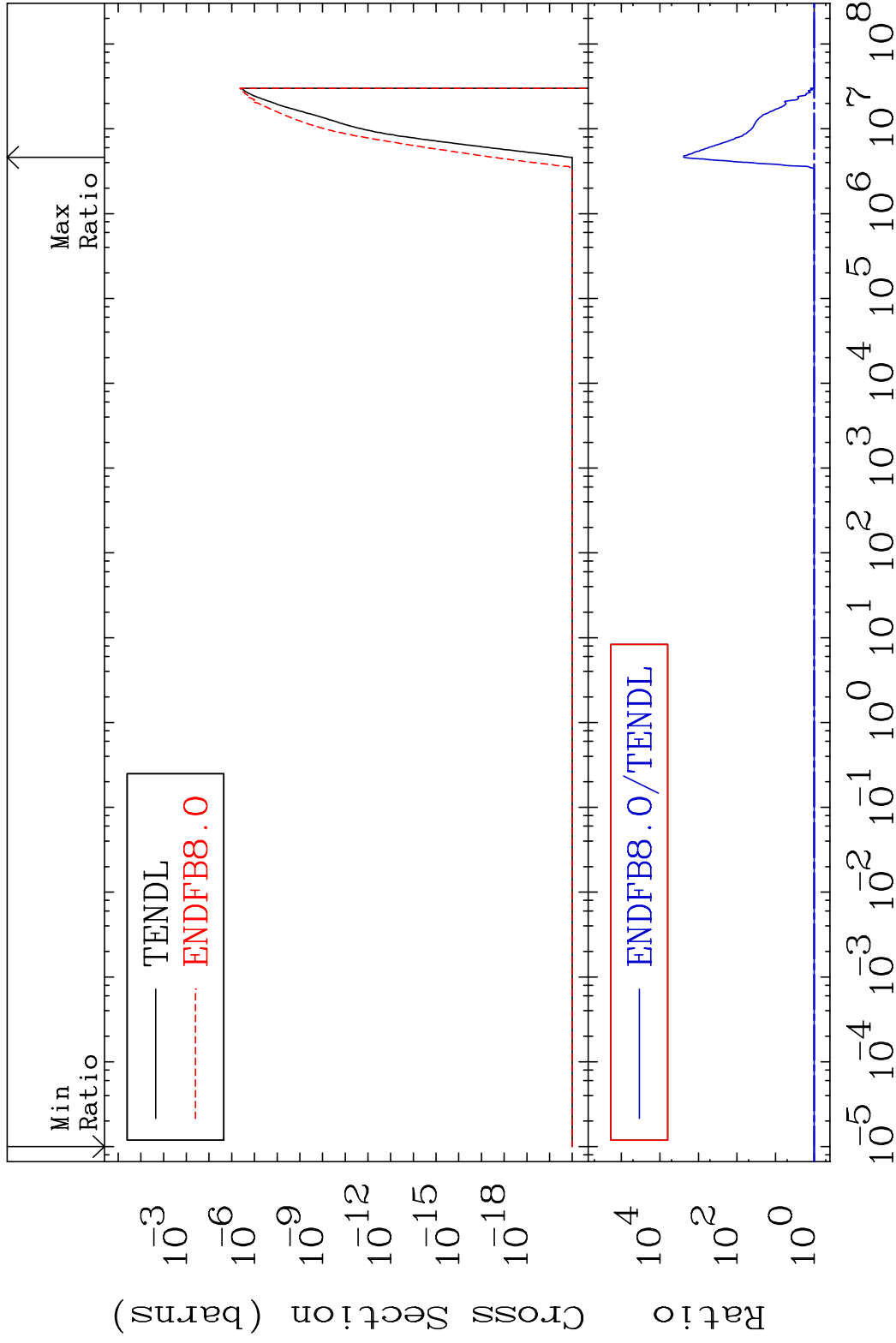


MAT 6143

(n,p) α

61-Pm-145

Cross Section 0.000 To 9999. %

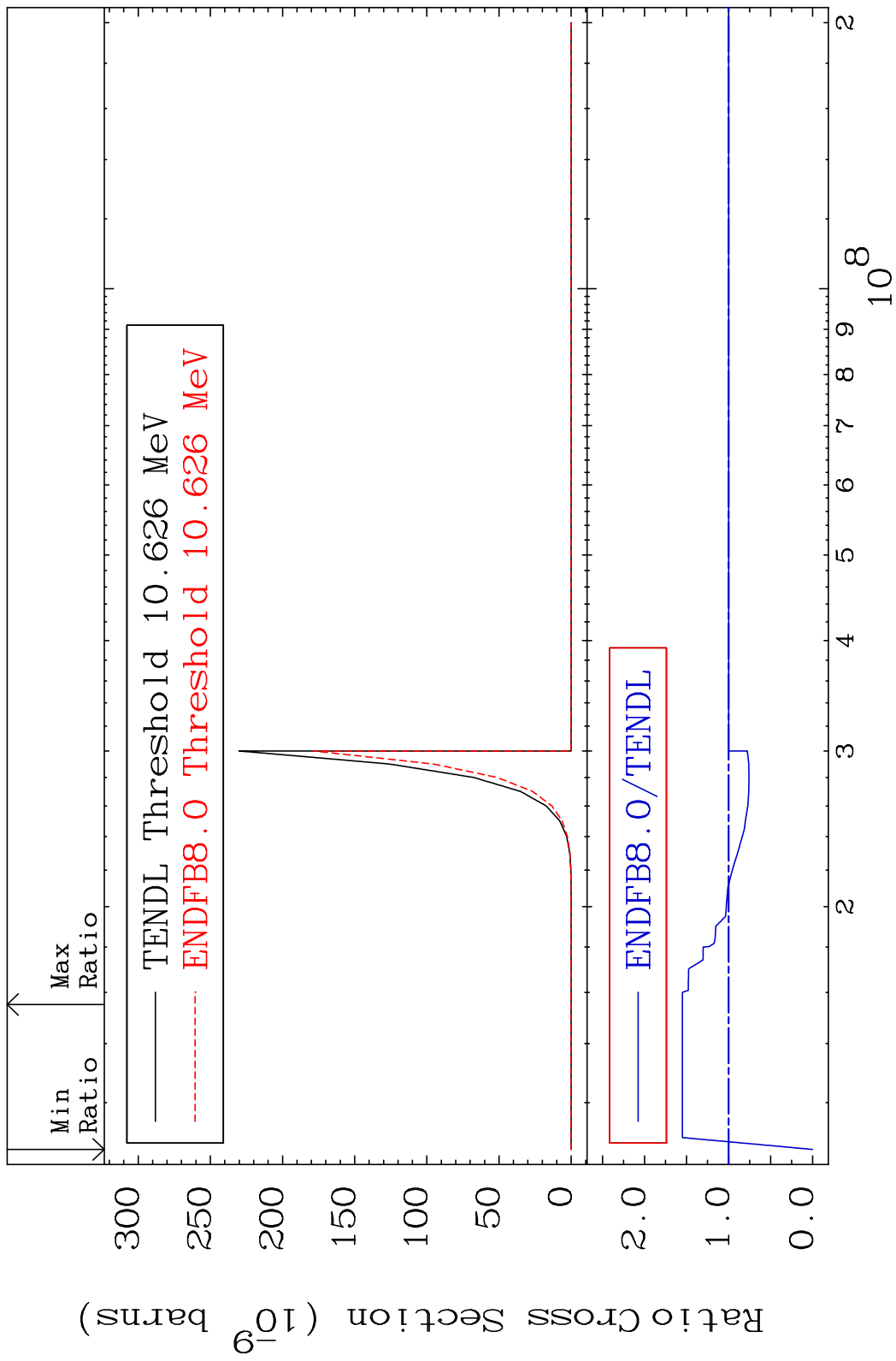


59

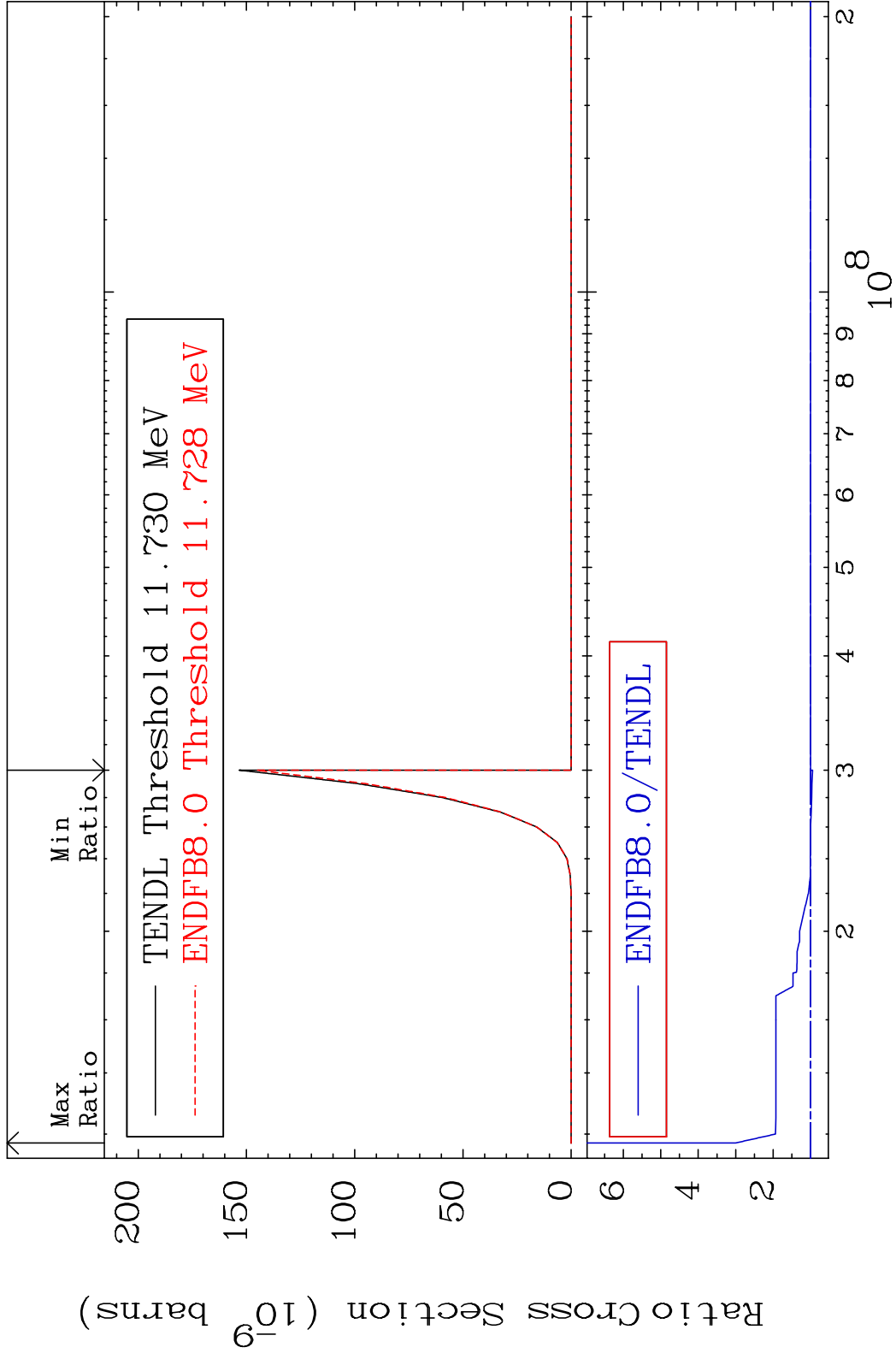
Incident Energy (eV)

61-Pm-145

MAT 6143 (n,p) d 61-Pm-145
 Cross Section -100.0 To 55.04 %



MAT 6143 (n,p) t 61-Pm-145
 Cross Section -5.144 To 342.4 %

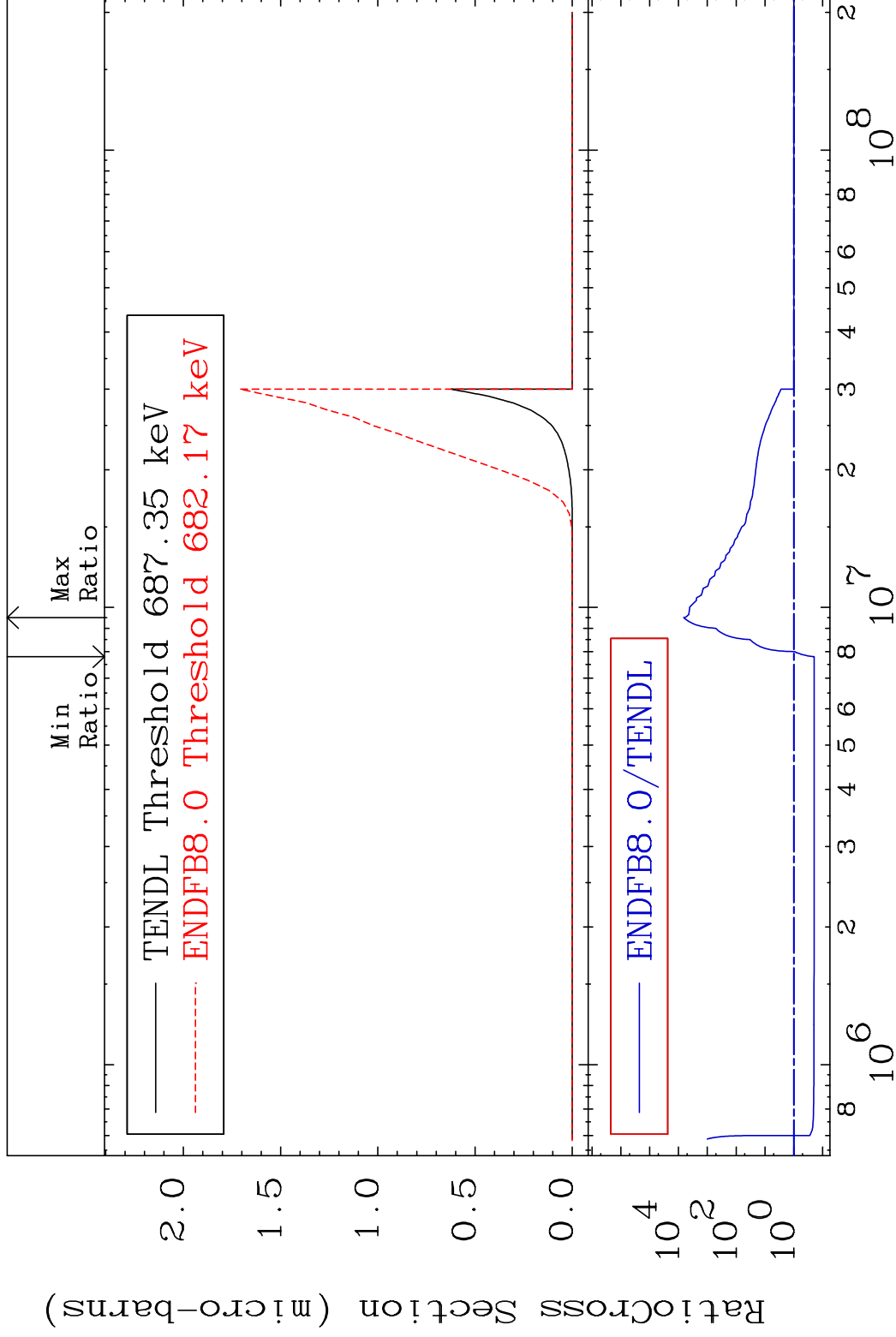


MAT 6143

(n, d) α

61-Pm-145

Cross Section -80.36 To 9999. %



62

Incident Energy (eV)

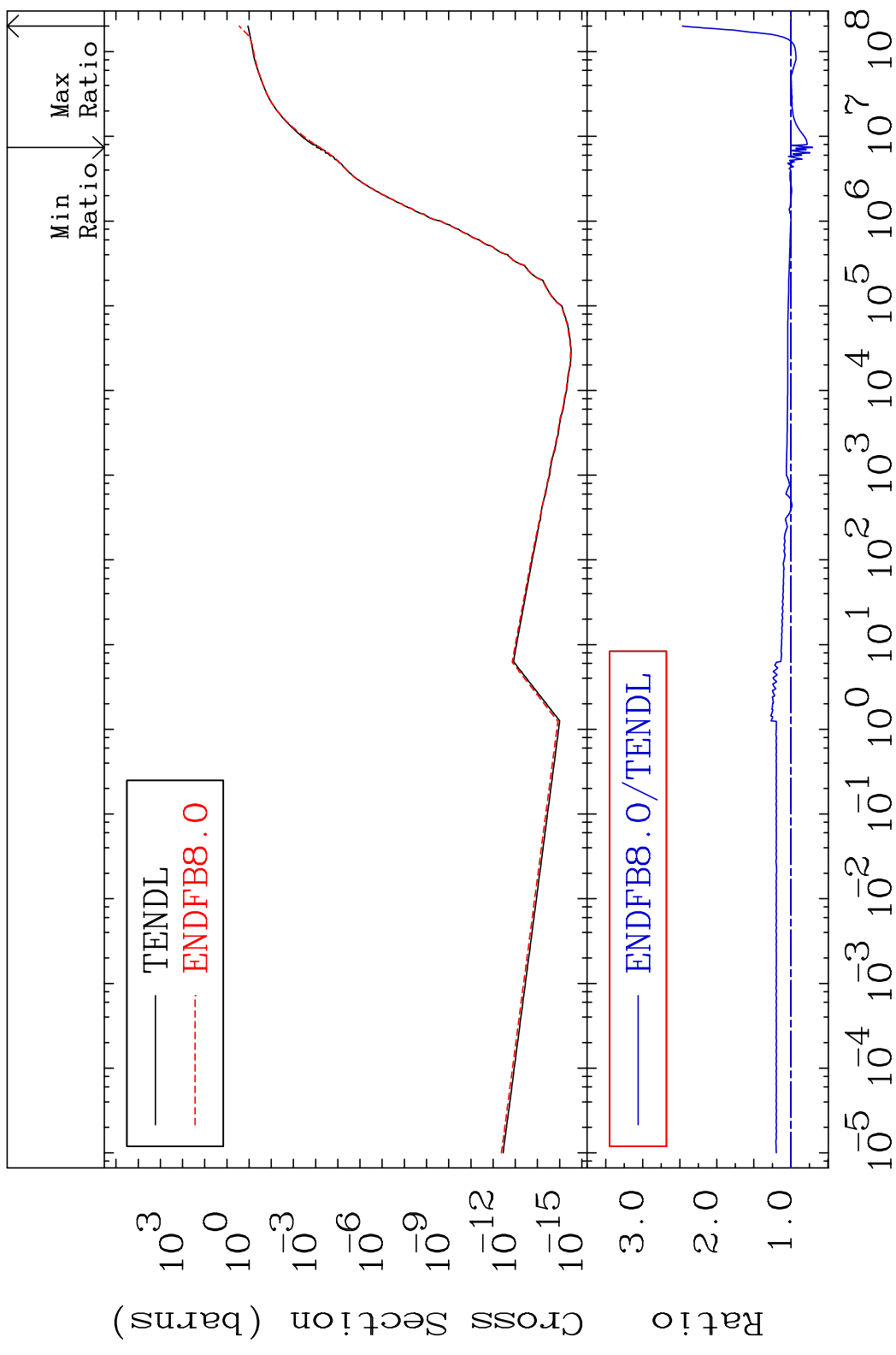
61-Pm-145

MAT 6143

Hydrogen Production

61-Pm-145

Cross Section -29.18 To 146.5 %



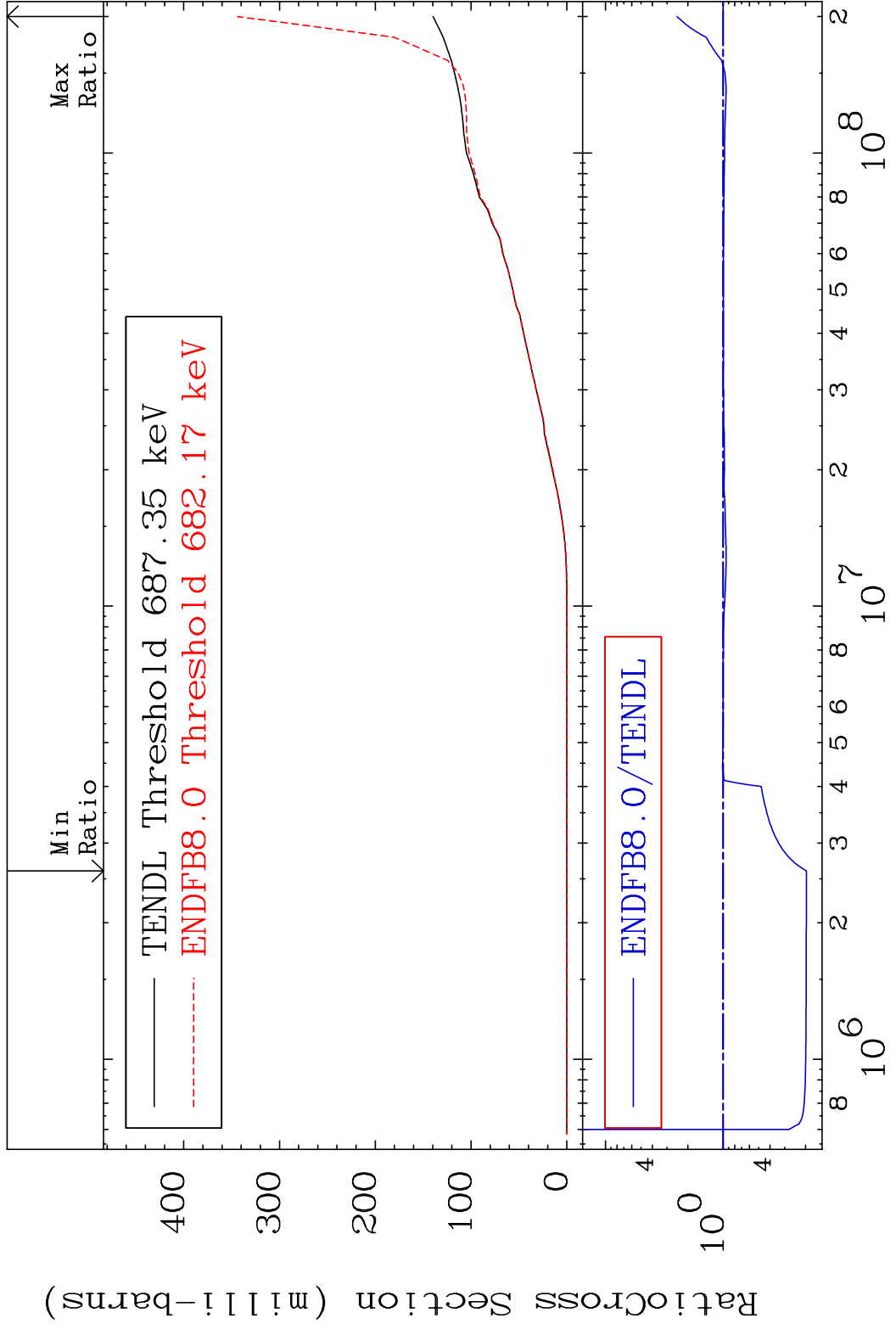
63

Incident Energy (eV)

61-Pm-145

MAT 6143

Deuterium Production 61-Pm-145
Cross Section -80.33 To 146.3 %

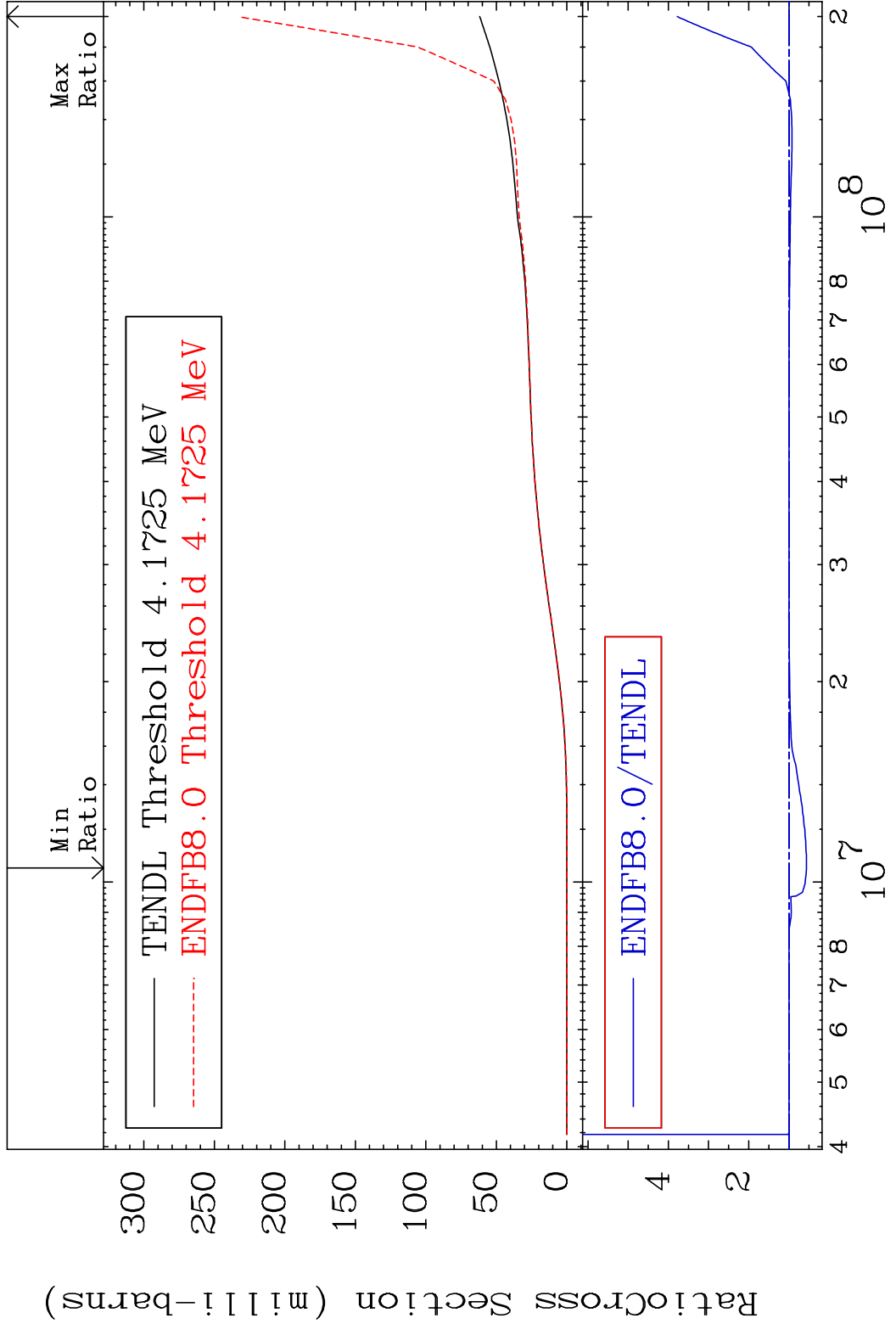


64

Incident Energy (eV) 61-Pm-145

MAT 6143

Tritium Production 61-Pm-145
Cross Section -43.47 To 278.0 %



65

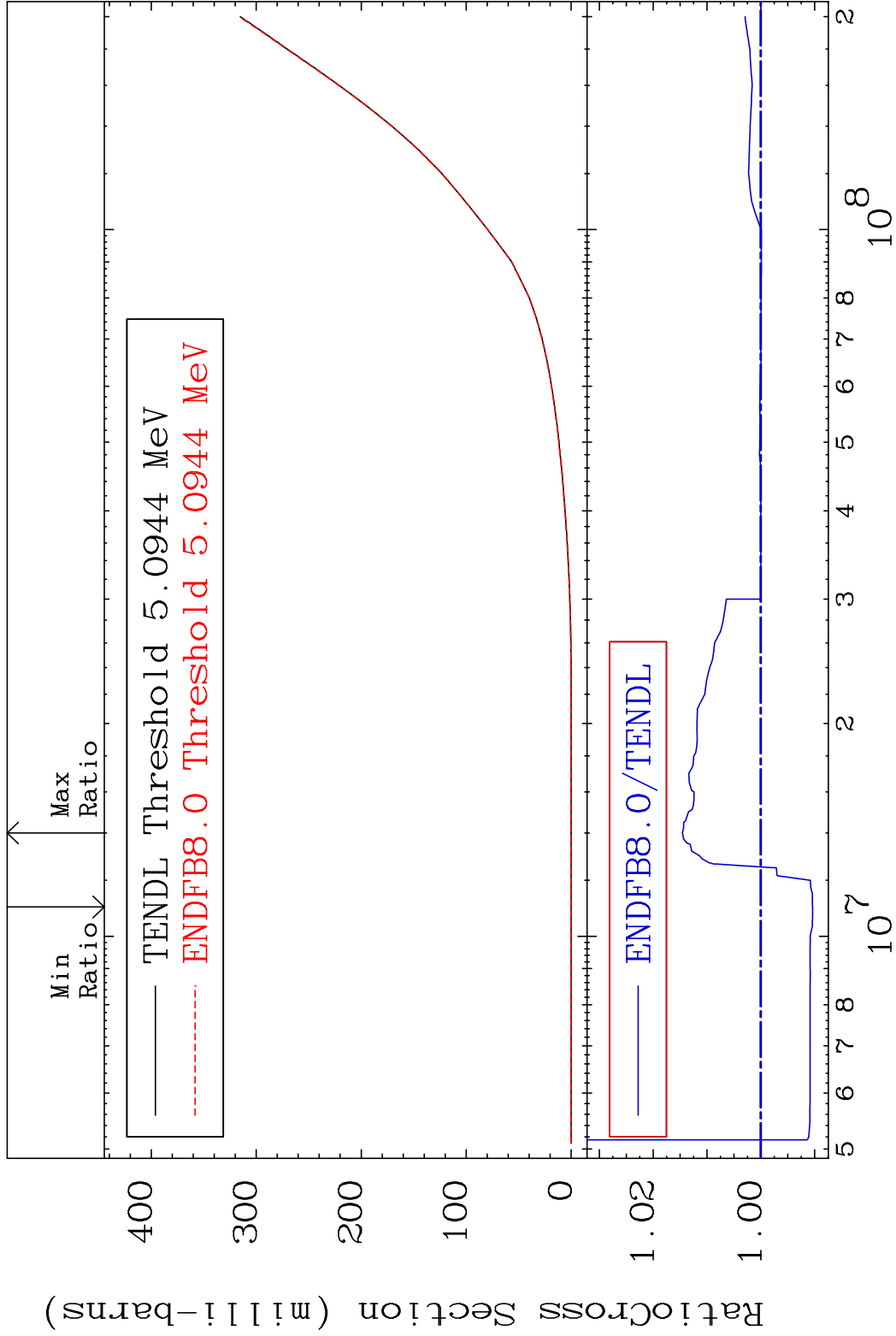
Incident Energy (eV) 61-Pm-145

MAT 6143

He-3 Production

61-Pm-145

Cross Section -0.963 To 1.456 %



66

Incident Energy (eV)

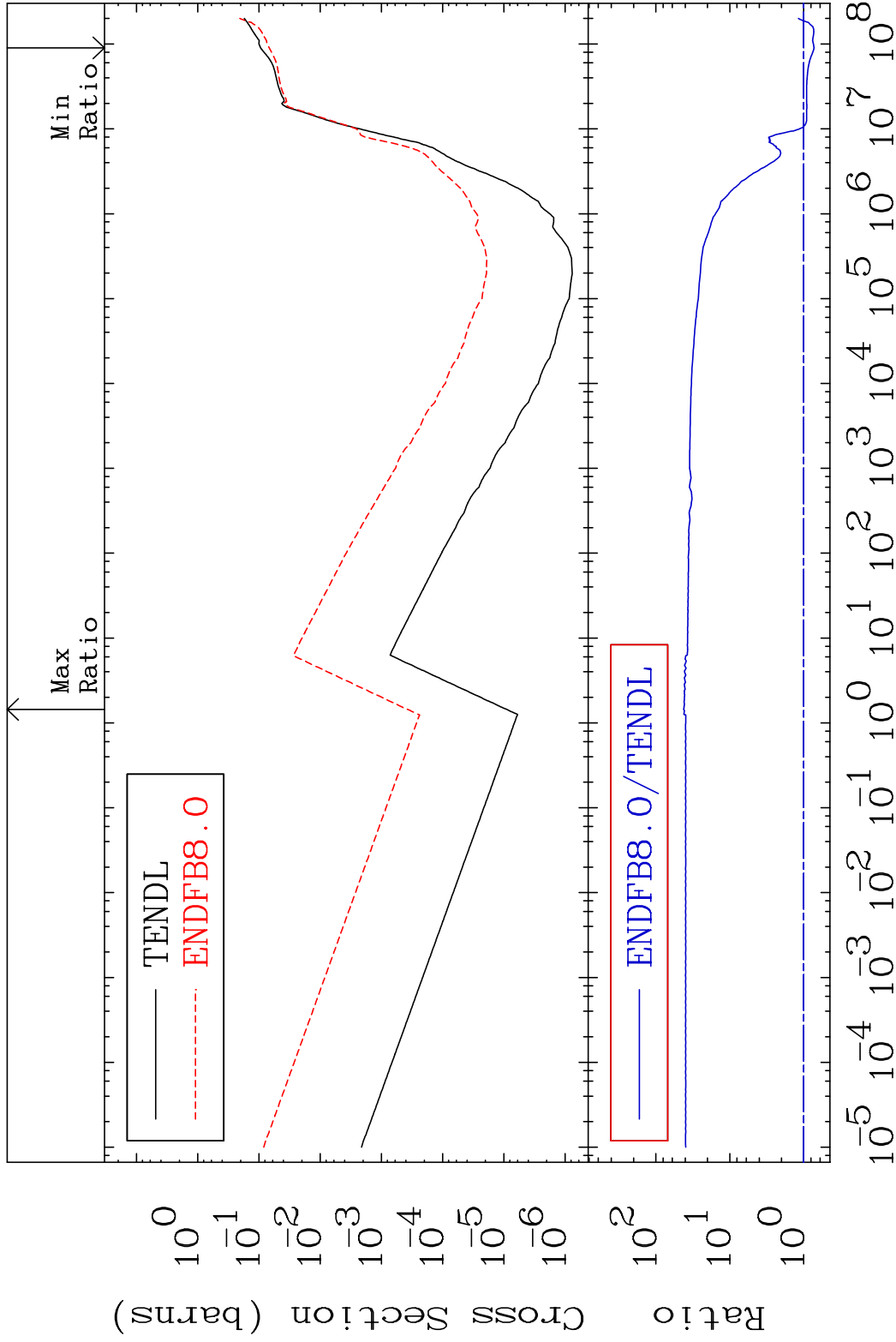
61-Pm-145

MAT 6143

He-4 Production

61-Pm-145

Cross Section -27.62 To 4109. %

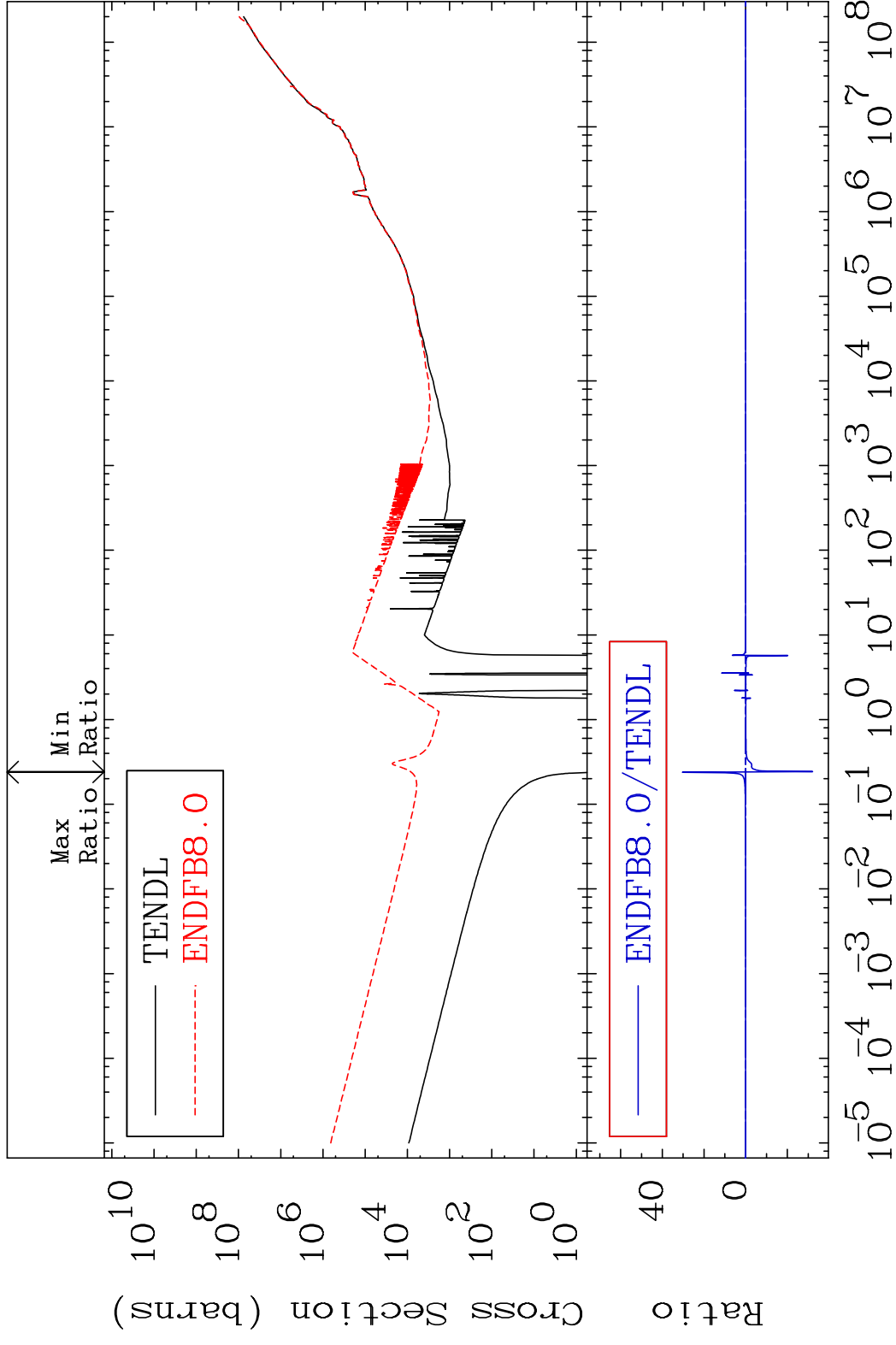


67

Incident Energy (eV)

61-Pm-145

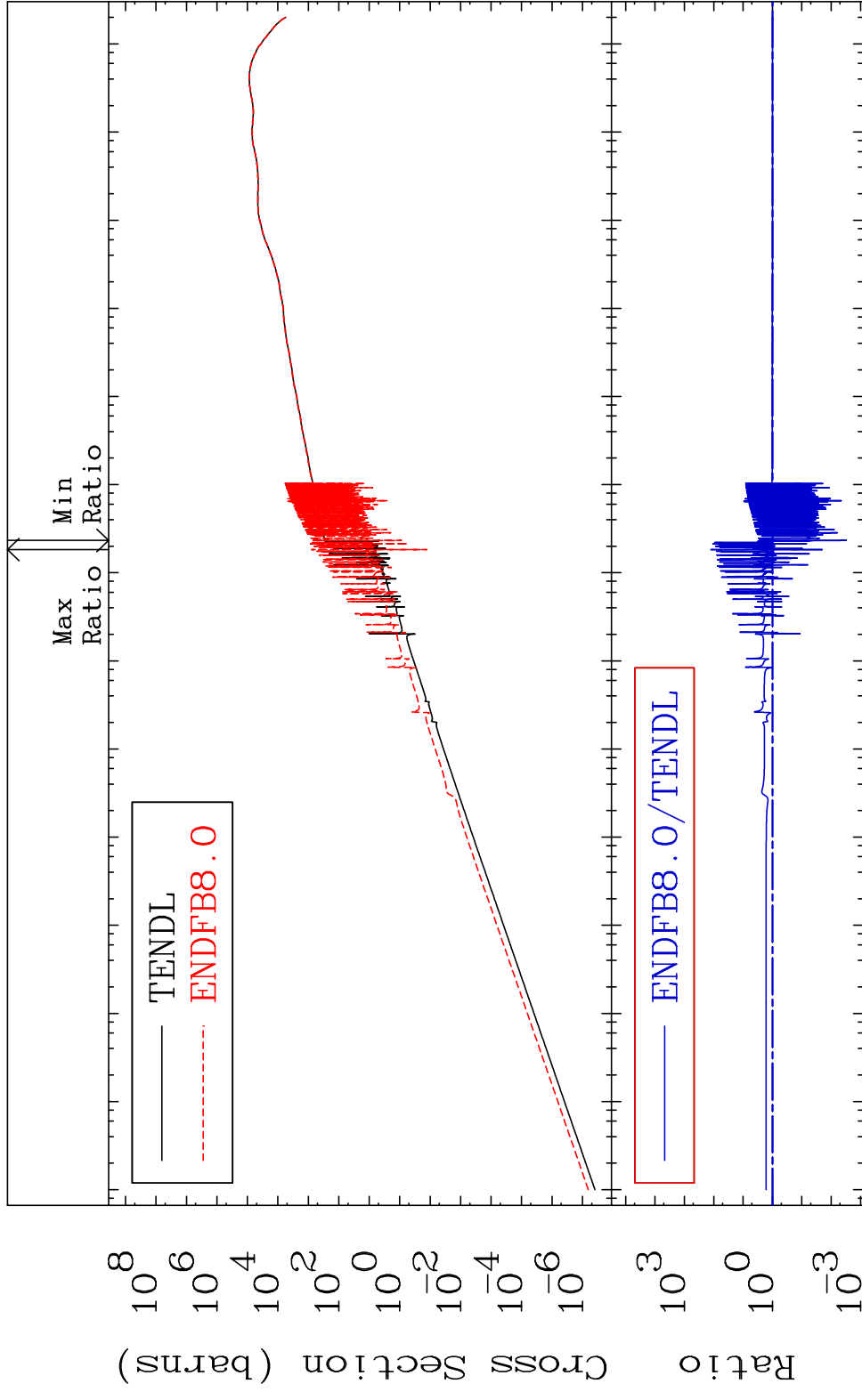
MAT 6143 Kerma total (eV-barns) 61-Pm-145
 Cross Section -9999. To 9999. %



MAT 6143

Kerma elastic
Cross Section

61-Pm-145
-99.69 To 9999. %

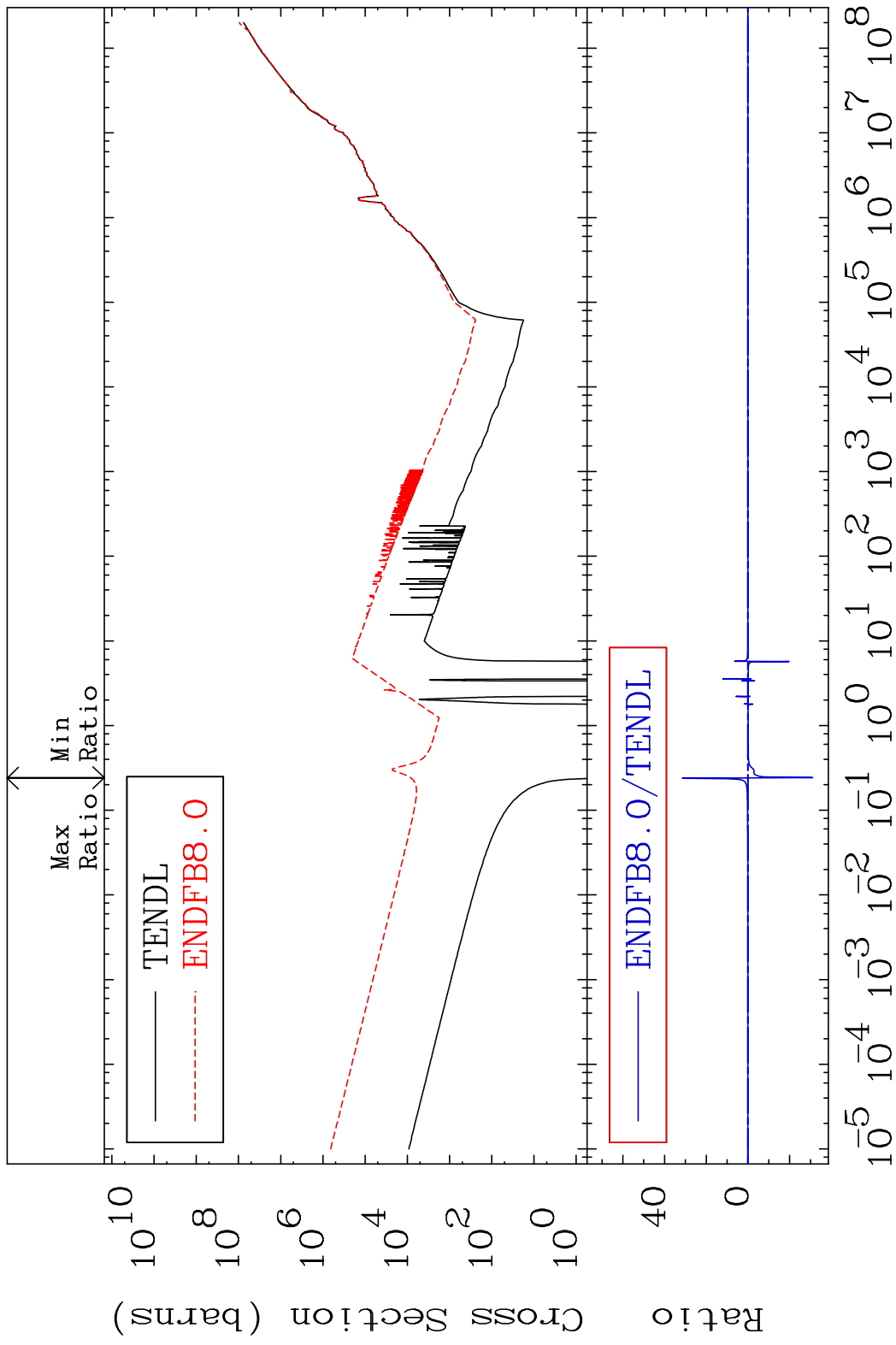


69

Incident Energy (eV)

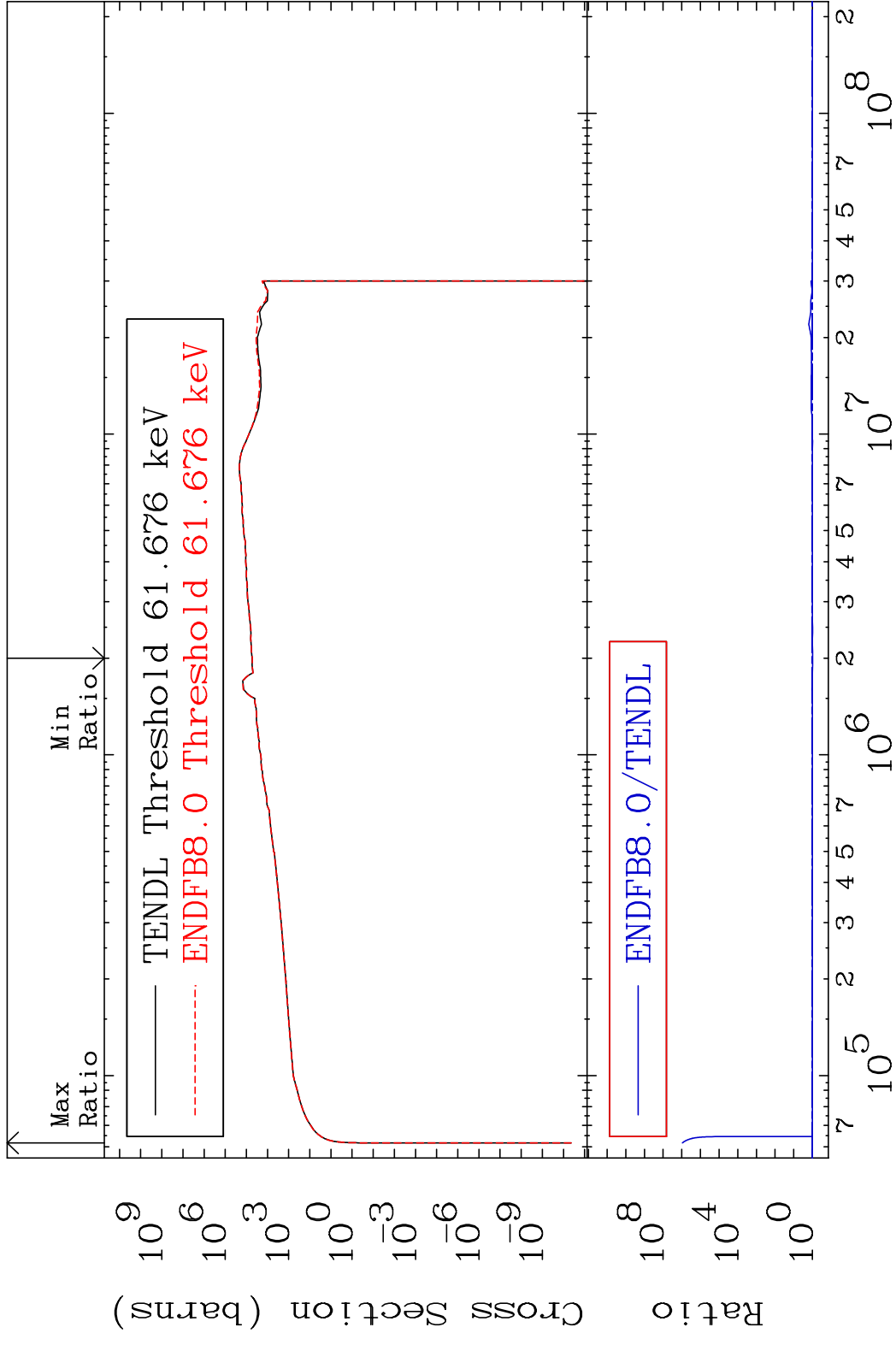
61-Pm-145

MAT 6143 Kerma non-elastic (all but mt2) 61-Pm-145
 Cross Section -9999. To 9999. %

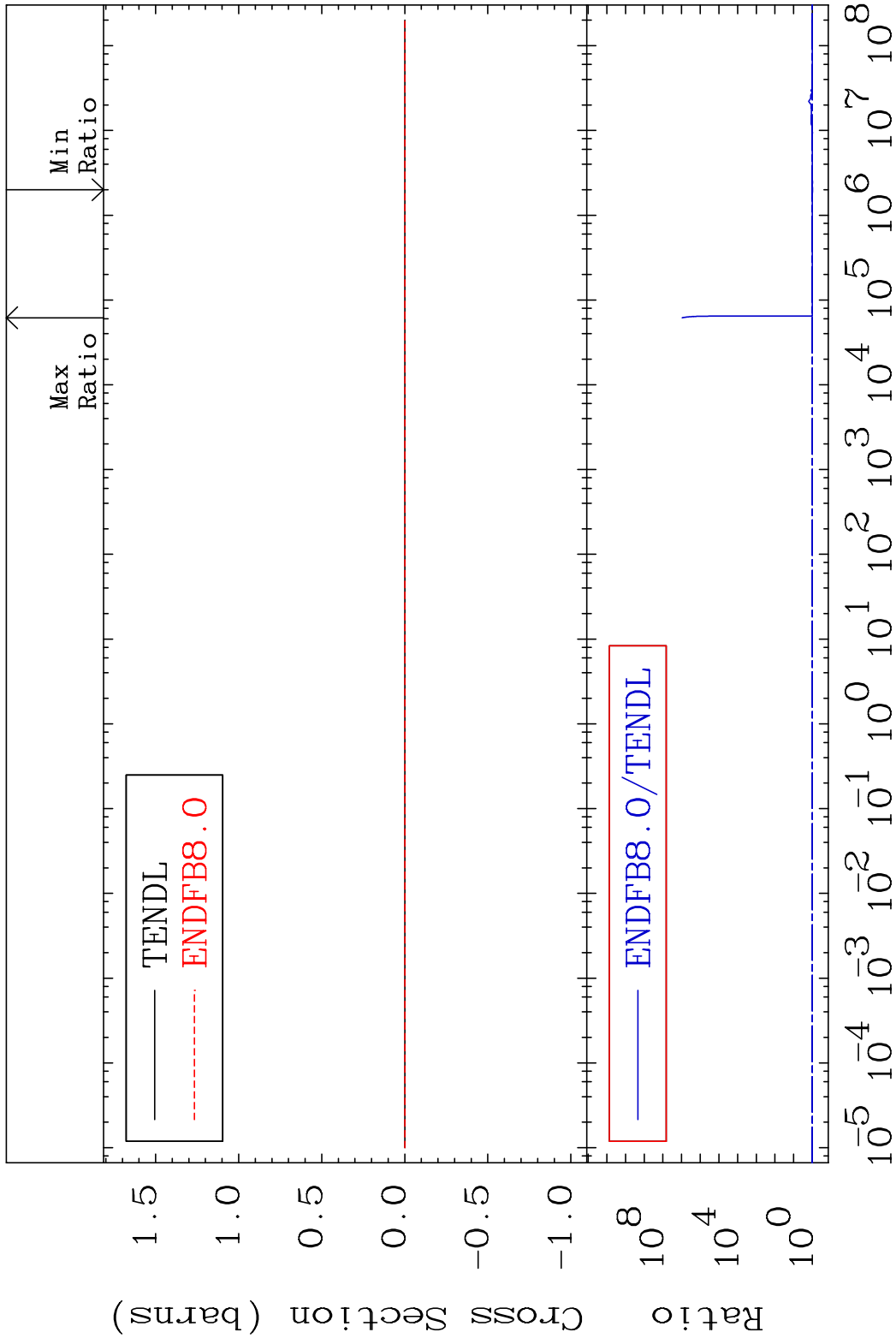


70 Incident Energy (eV) 61-Pm-145

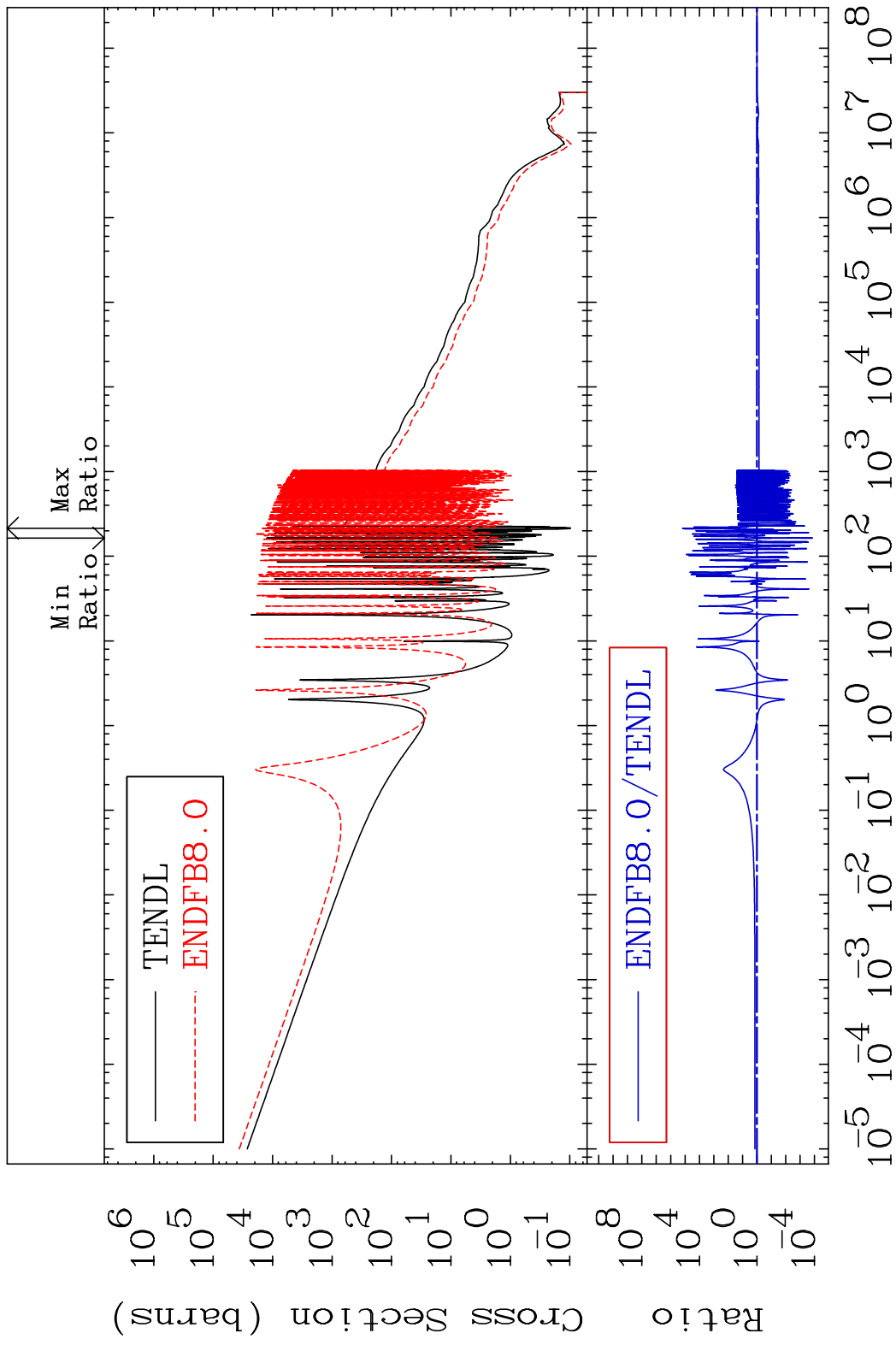
MAT 6143 Kerma inelastic (mt51-91) 61-Pm-145
 Cross Section -1.767 To 9999. %



MAT 6143 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-145
 Cross Section -1.767 To 9999. %

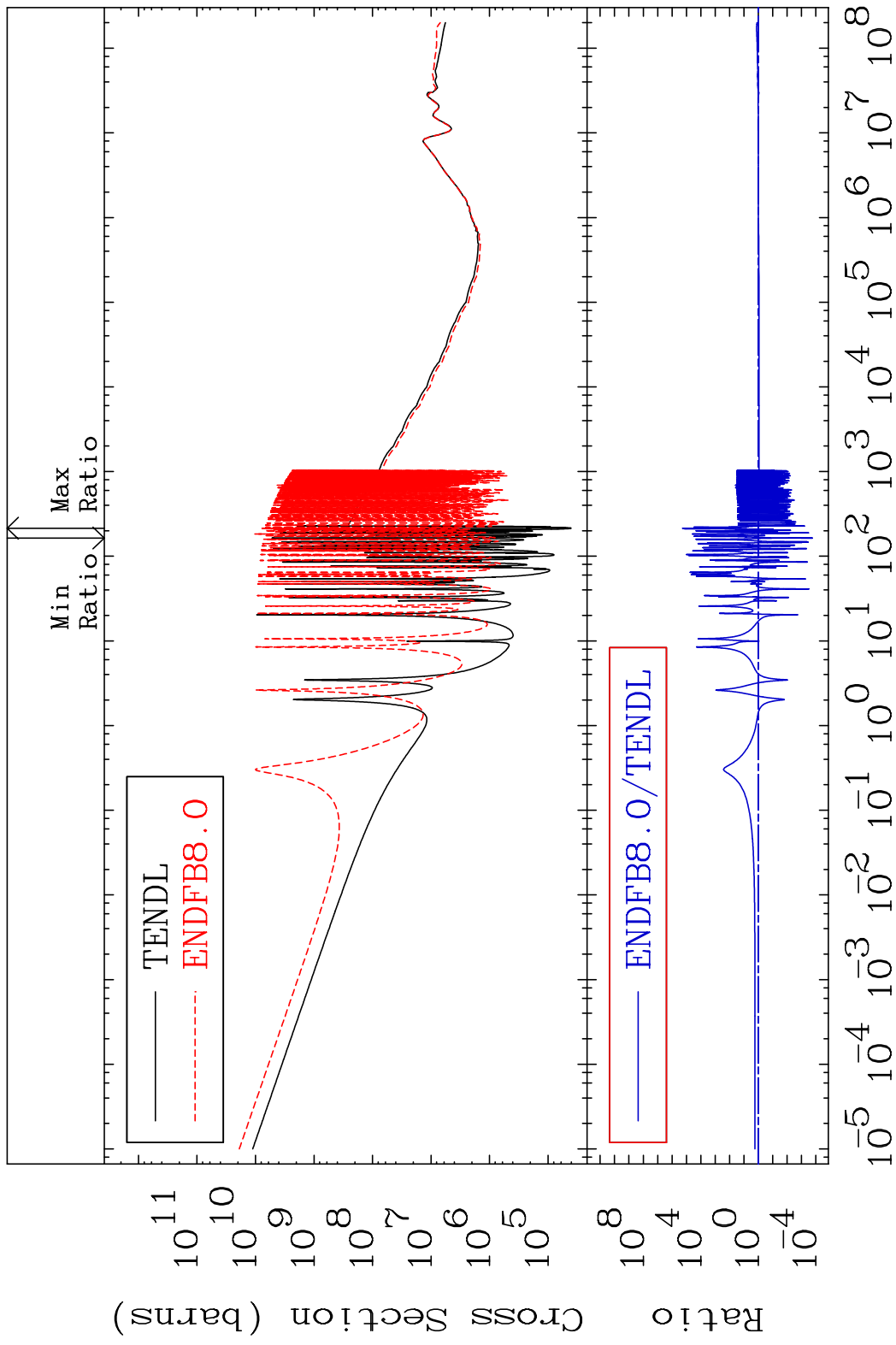


MAT 6143 Kerma capture (mt102) 61-Pm-145
 Cross Section -99.99 To 9999. %



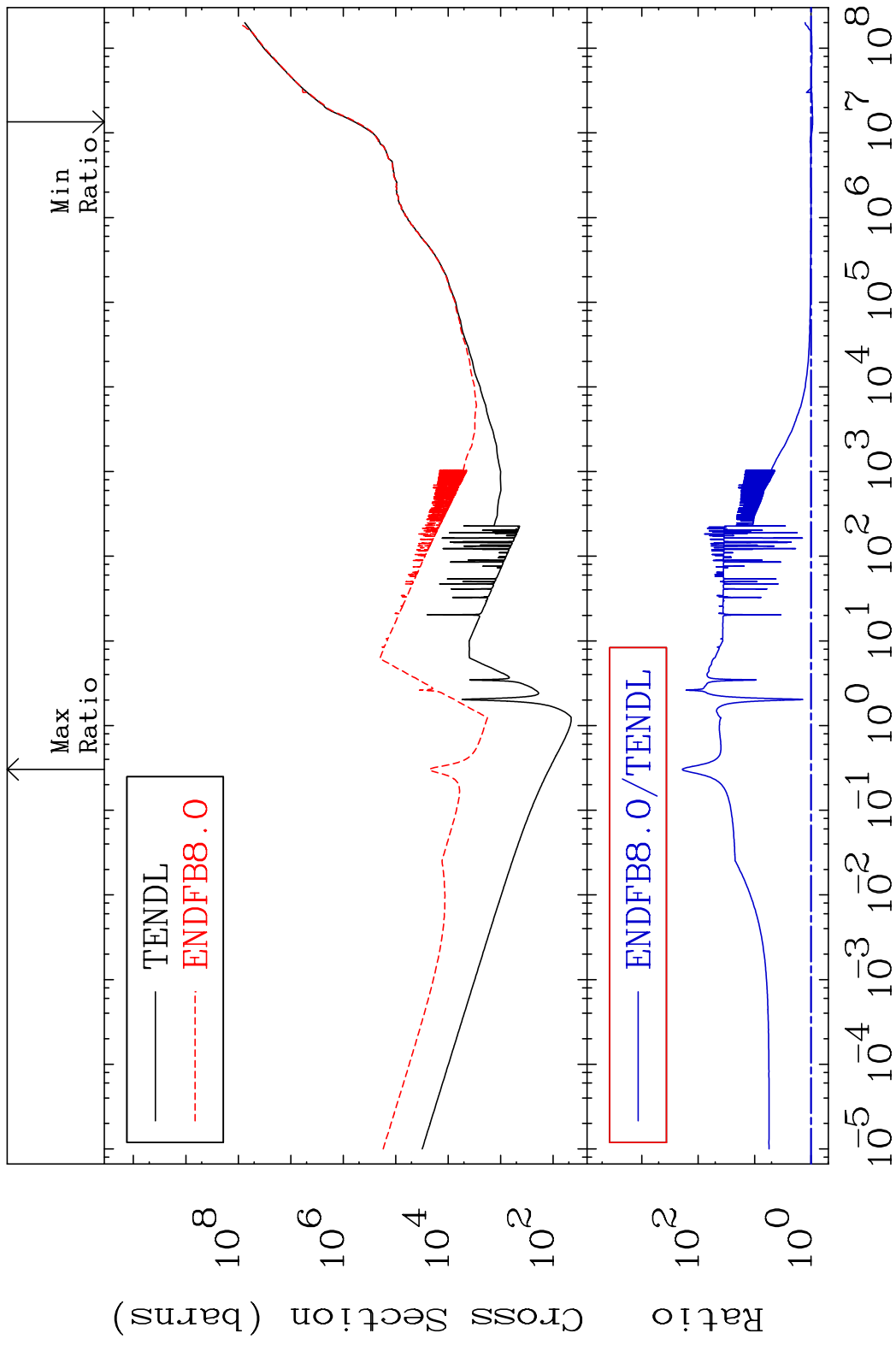
73 Incident Energy (eV) 61-Pm-145

MAT 6143 Total photon (eV-barns) 61-Pm-145
 Cross Section -99.98 To 9999. %



74 Incident Energy (eV) 61-Pm-145

MAT 6143 Total kinematic kerma (high limit) 61-Pm-145
 Cross Section -5.875 To 9999. %



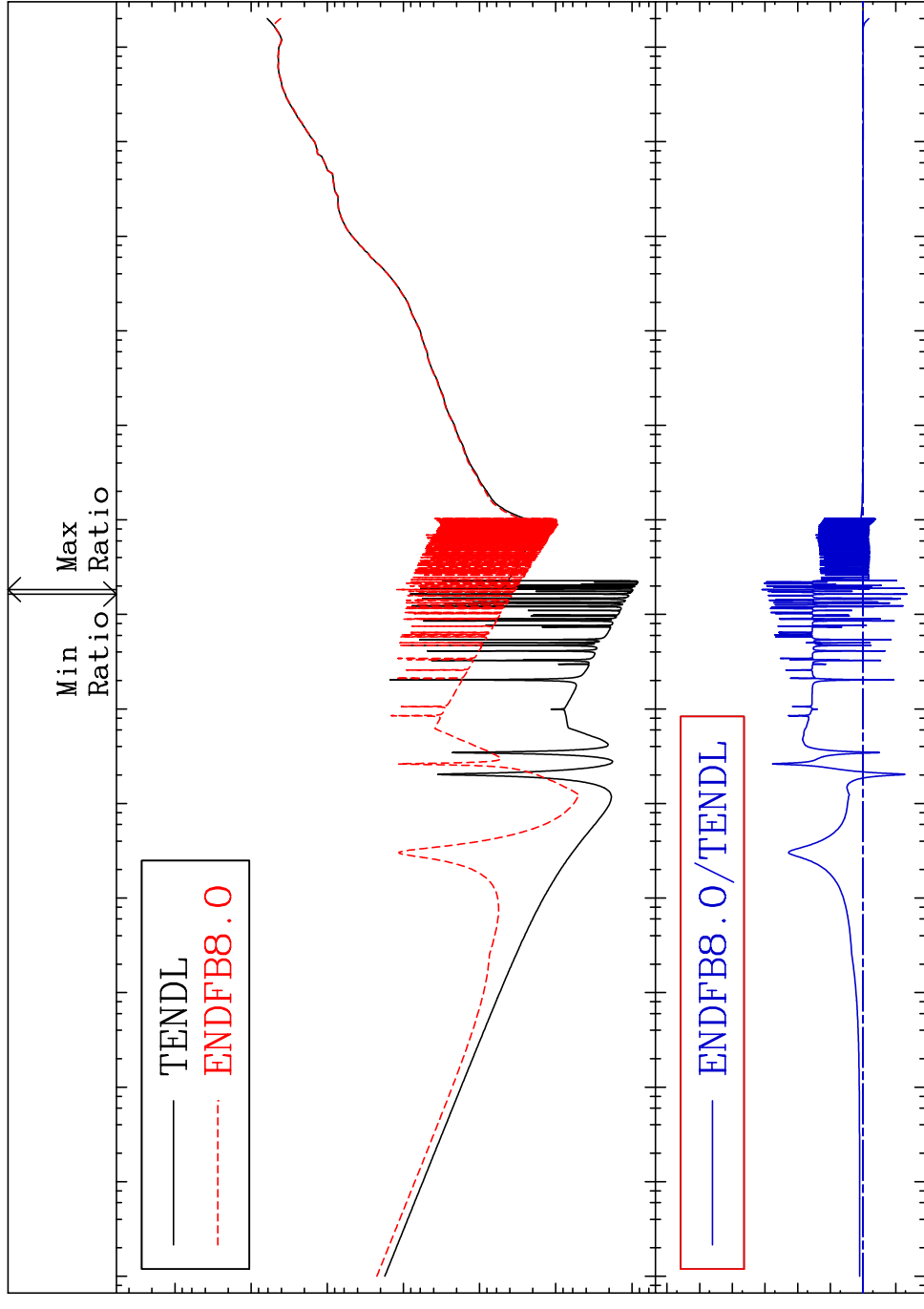
75 Incident Energy (eV) 61-Pm-145

MAT 6143

Dpa total (eV-barns)

61-Pm-145

Cross Section -95.54 To 9999. %



Cross Section (barns)
Ratio

76

Incident Energy (eV)

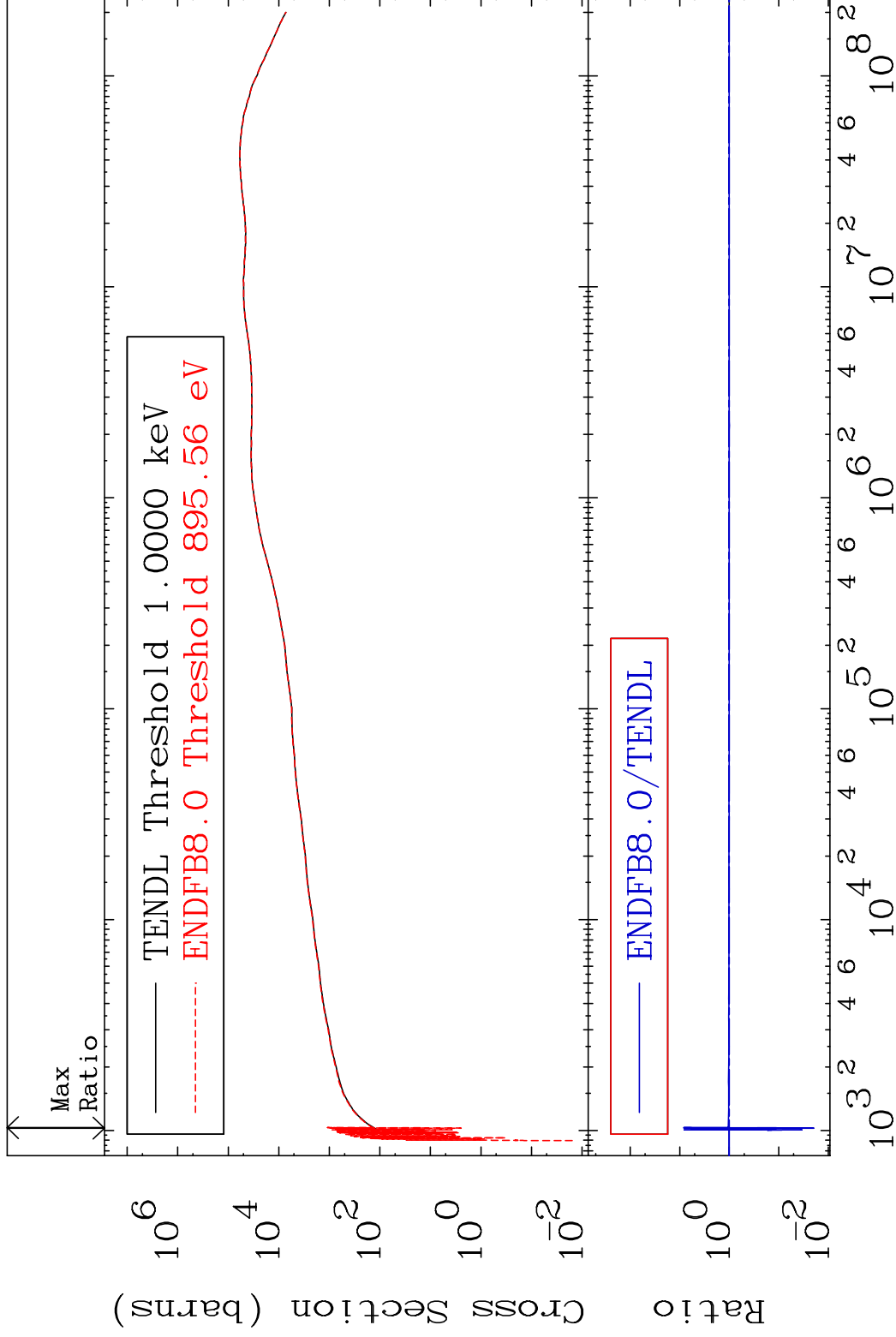
61-Pm-145

MAT 6143

Dpa elastic (mt2)

61-Pm-145

Cross Section -98.07 To 733.8 %

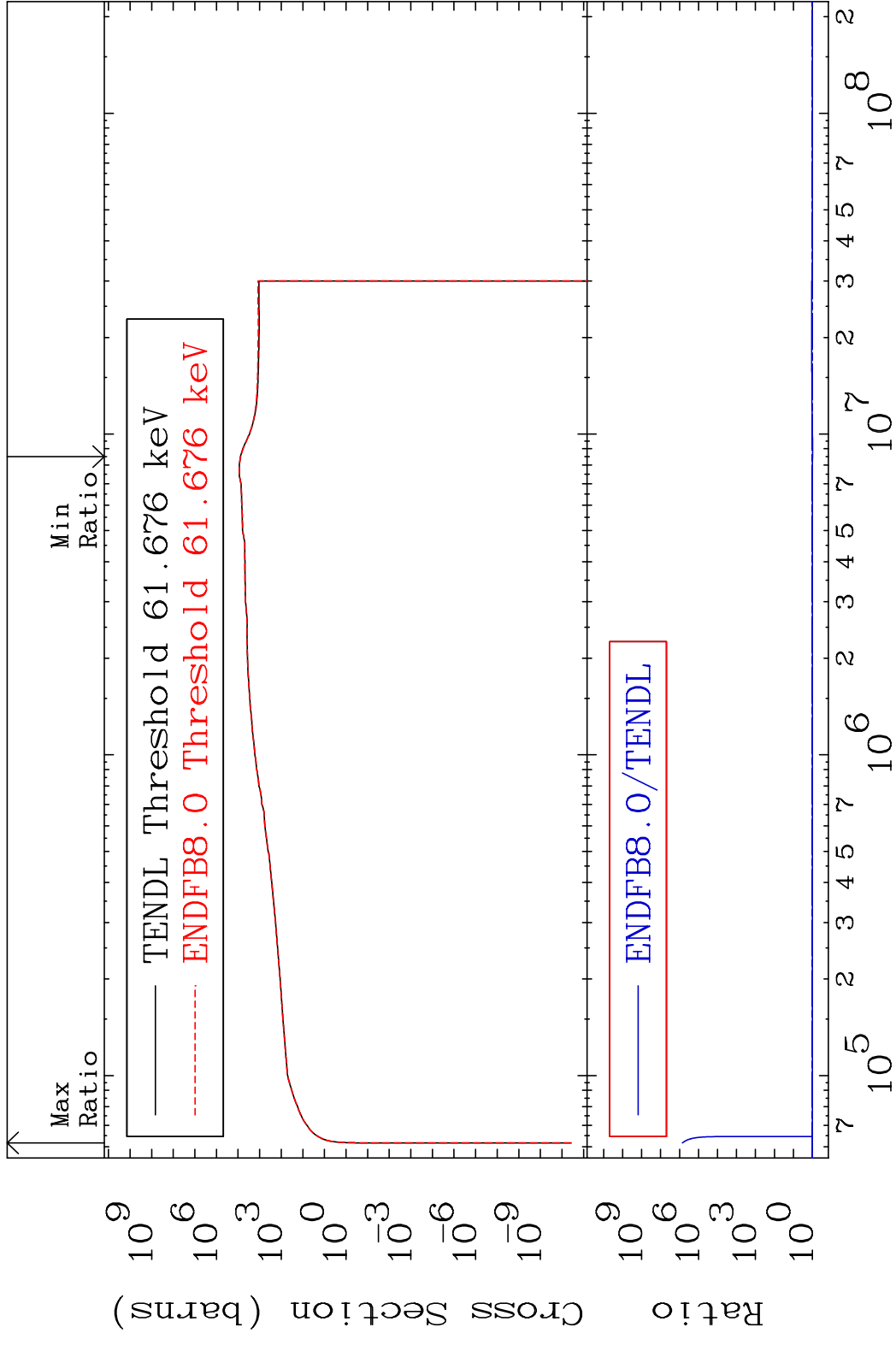


77

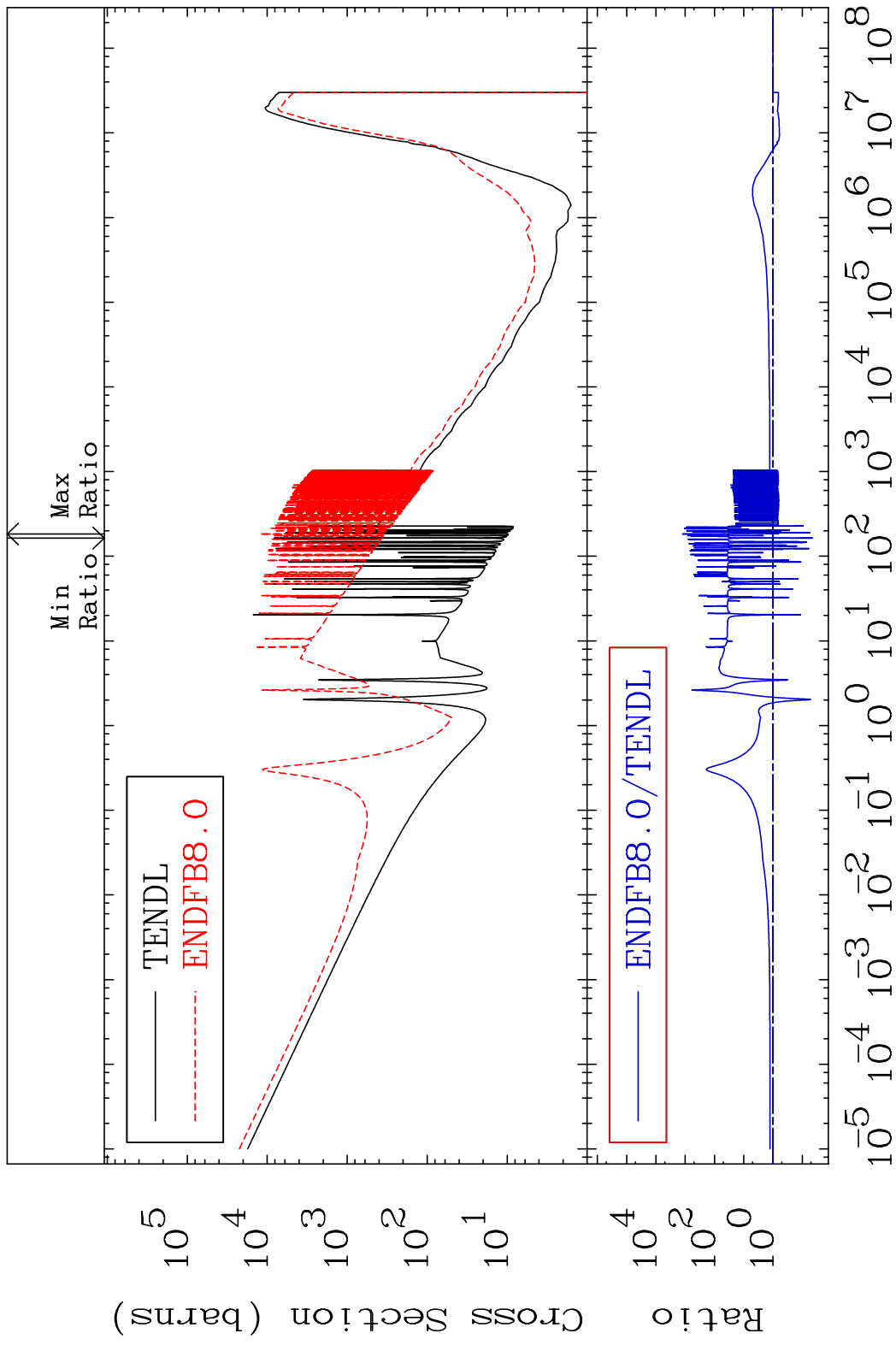
Incident Energy (eV)

61-Pm-145

MAT 6143 Dpa inelastic (mt51-91) 61-Pm-145
 Cross Section -2.013 To 9999. %



MAT 6143 Dpa disappearance (mt102 -120) 61-Pm-145
 Cross Section -95.54 To 9999. %



79 Incident Energy (eV) 61-Pm-145

MAT 6143 (n, n') He-3:59-Pr-142g 61-Pm-145
 Radionuclide Production Cross Section 114.4 %

