

Program Complot
(Version 2021-1)

by

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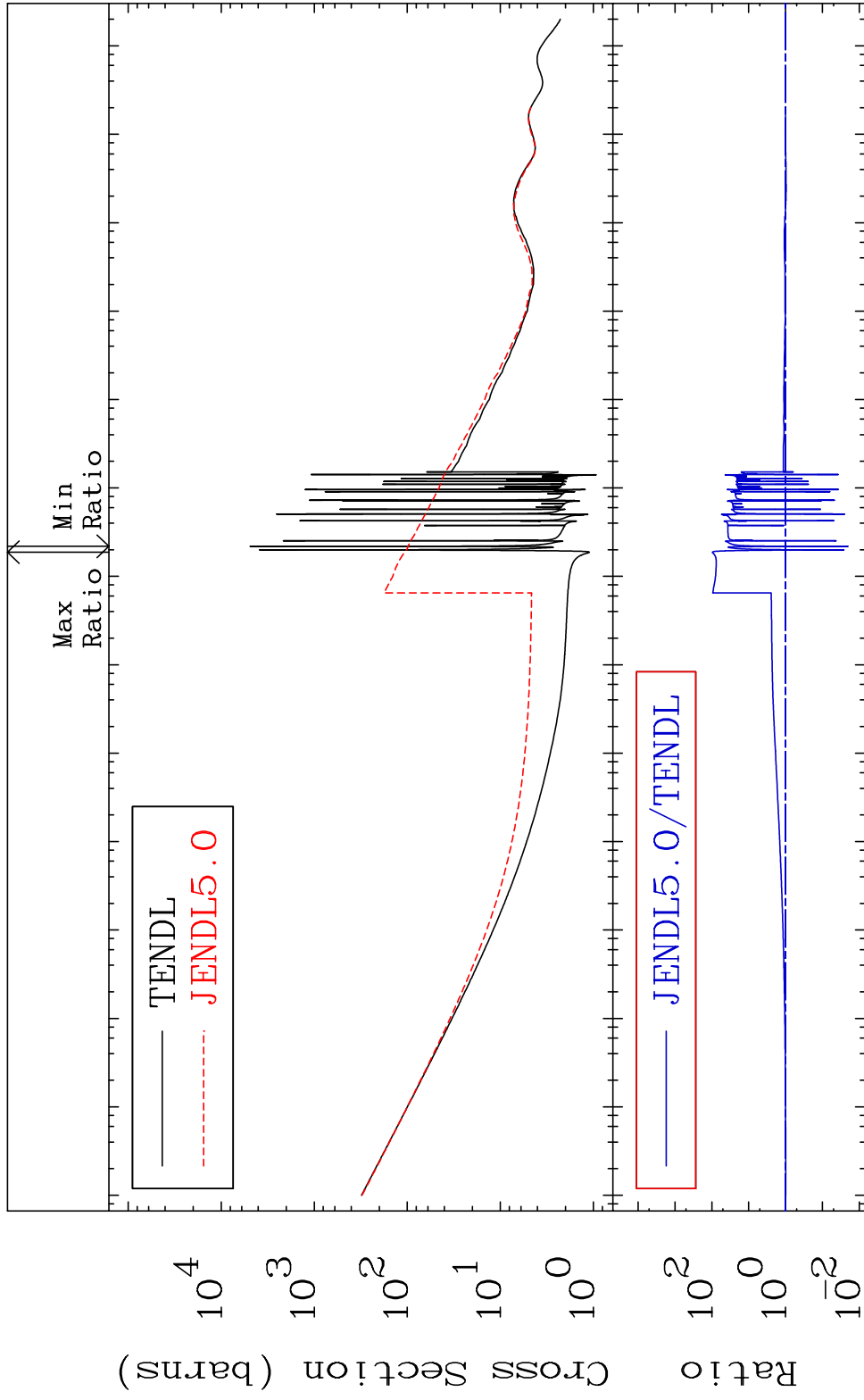
Press Mouse Button to Start

MAT 5846

Total

58-Ce-143

Cross Section -98.01 To 9562. %



1

Incident Energy (eV)

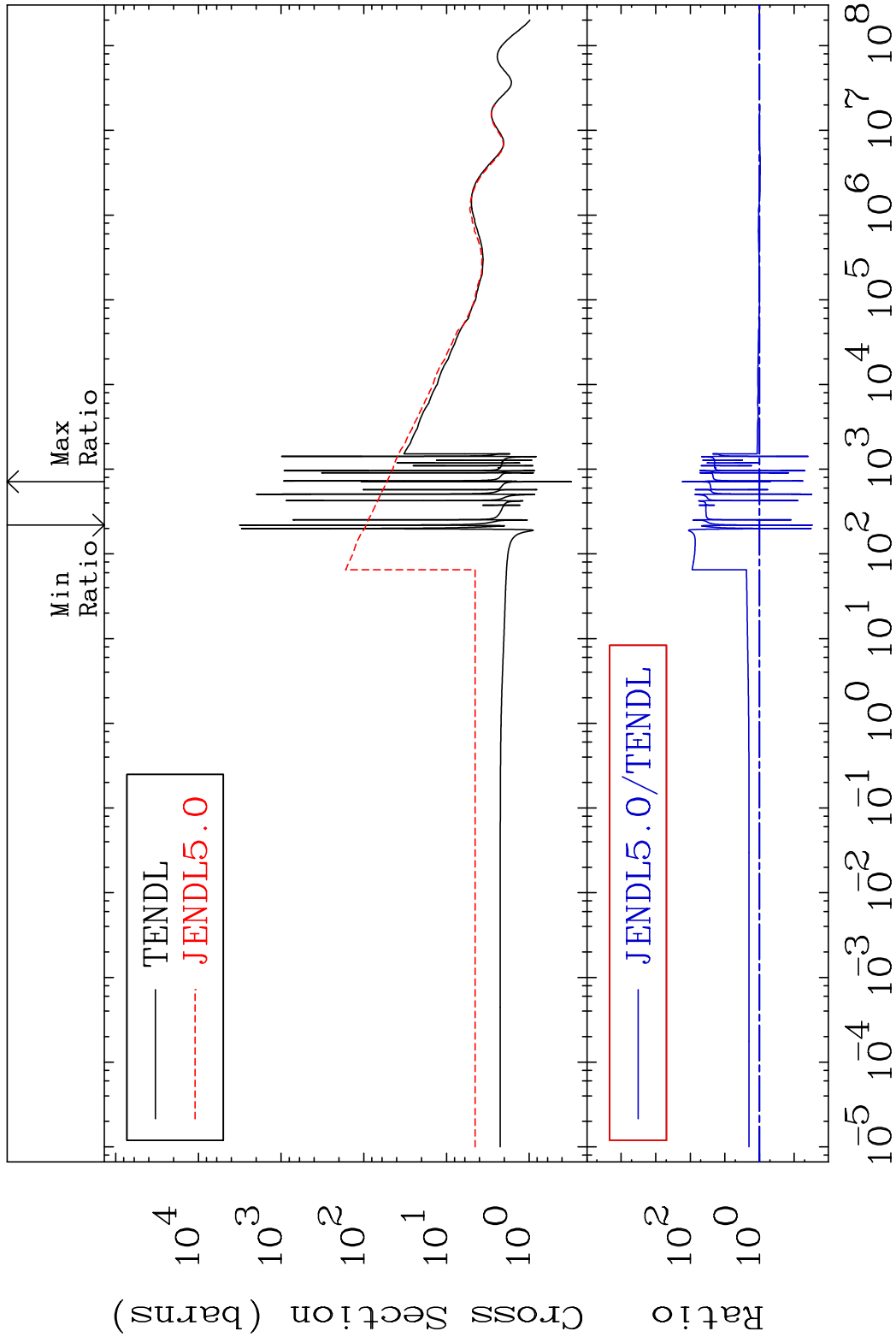
58-Ce-143

MAT 5846

Elastic

58-Ce-143

Cross Section -97.06 To 9999. %

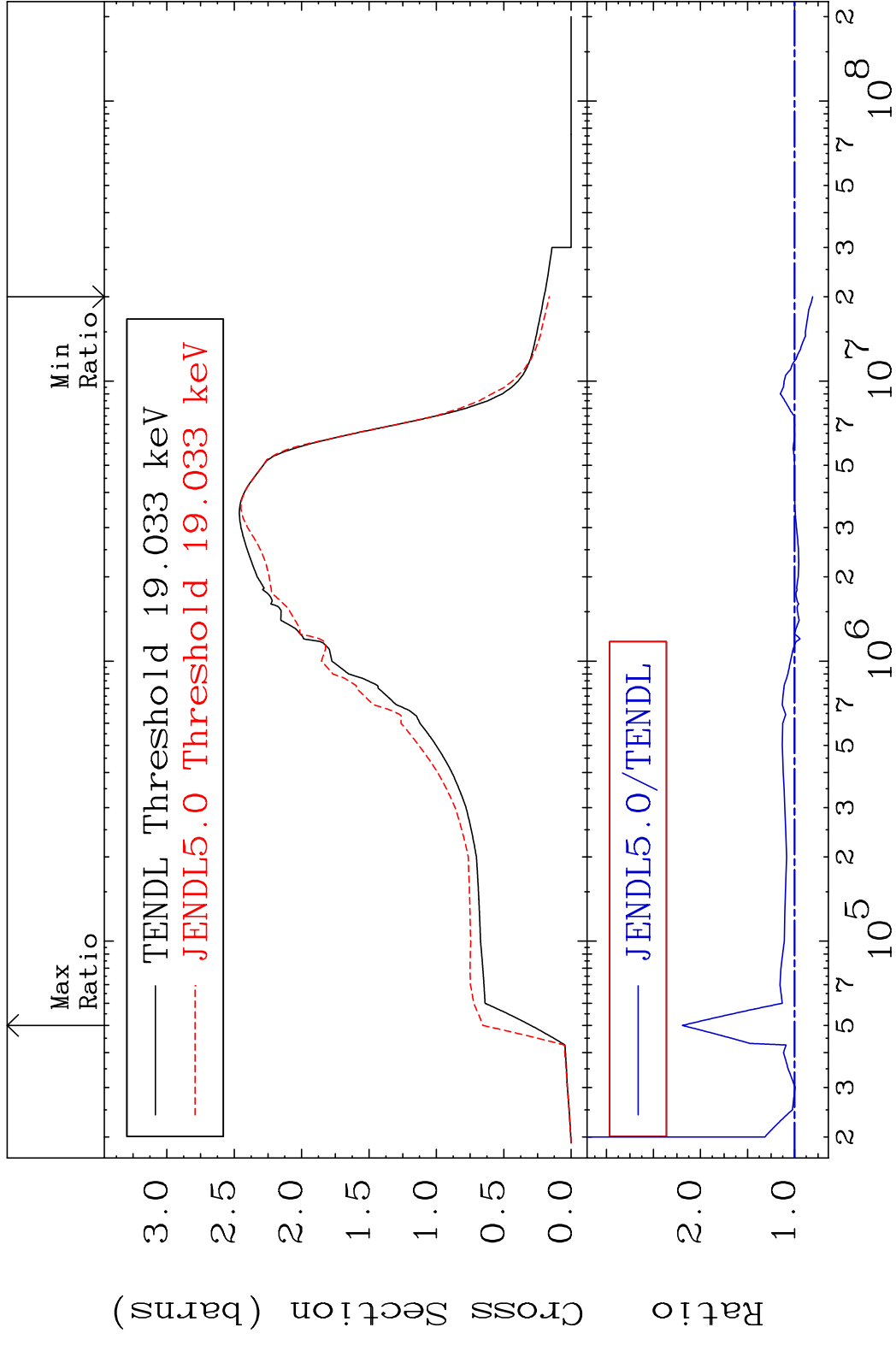


2

Incident Energy (eV)

58-Ce-143

MAT 5846 Inelastic 58-Ce-143
 Cross Section -19.15 To 119.3 %

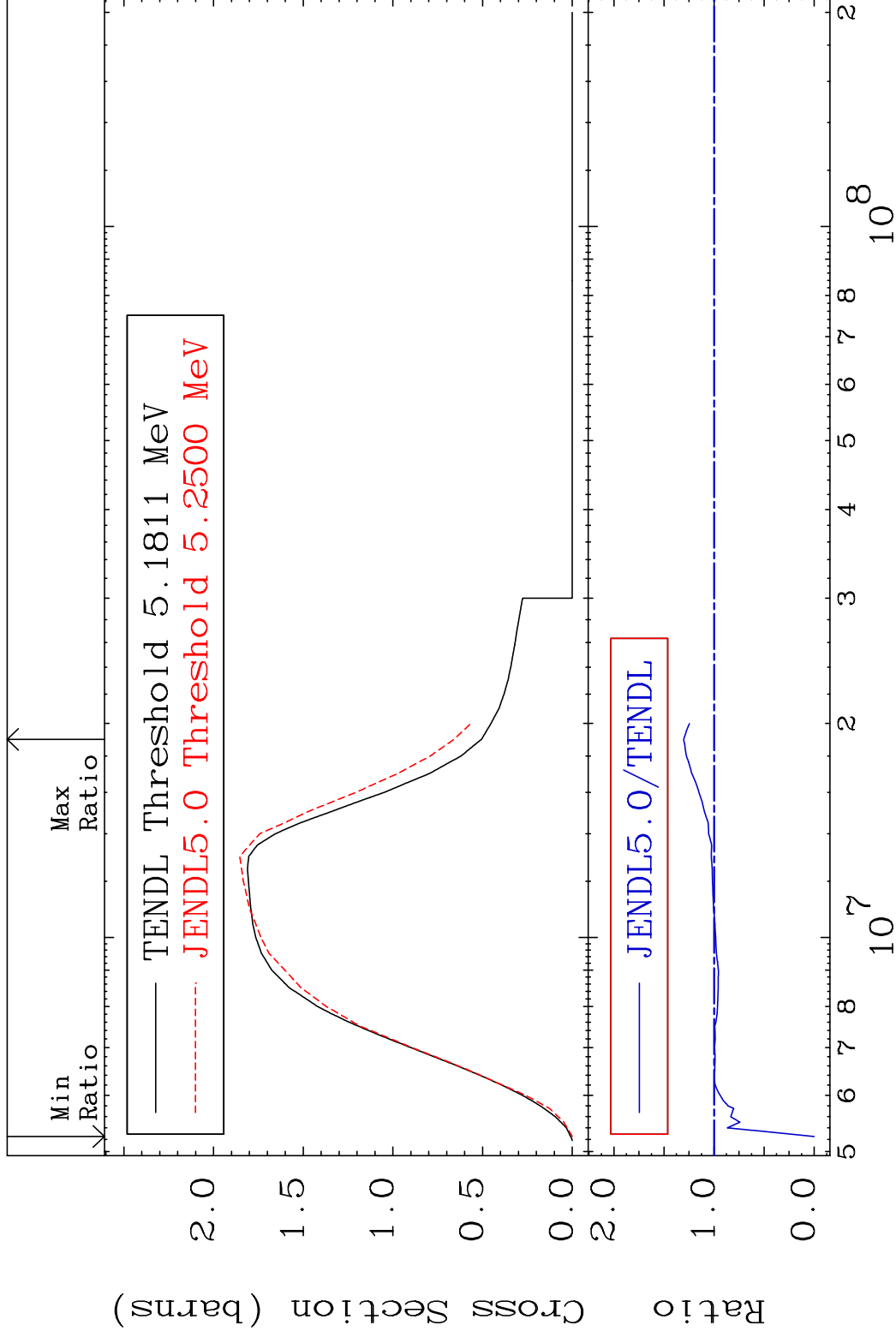


MAT 5846

(n,2n)

58-Ce-143

Cross Section -100.0 To 30.32 %



4

Incident Energy (eV)

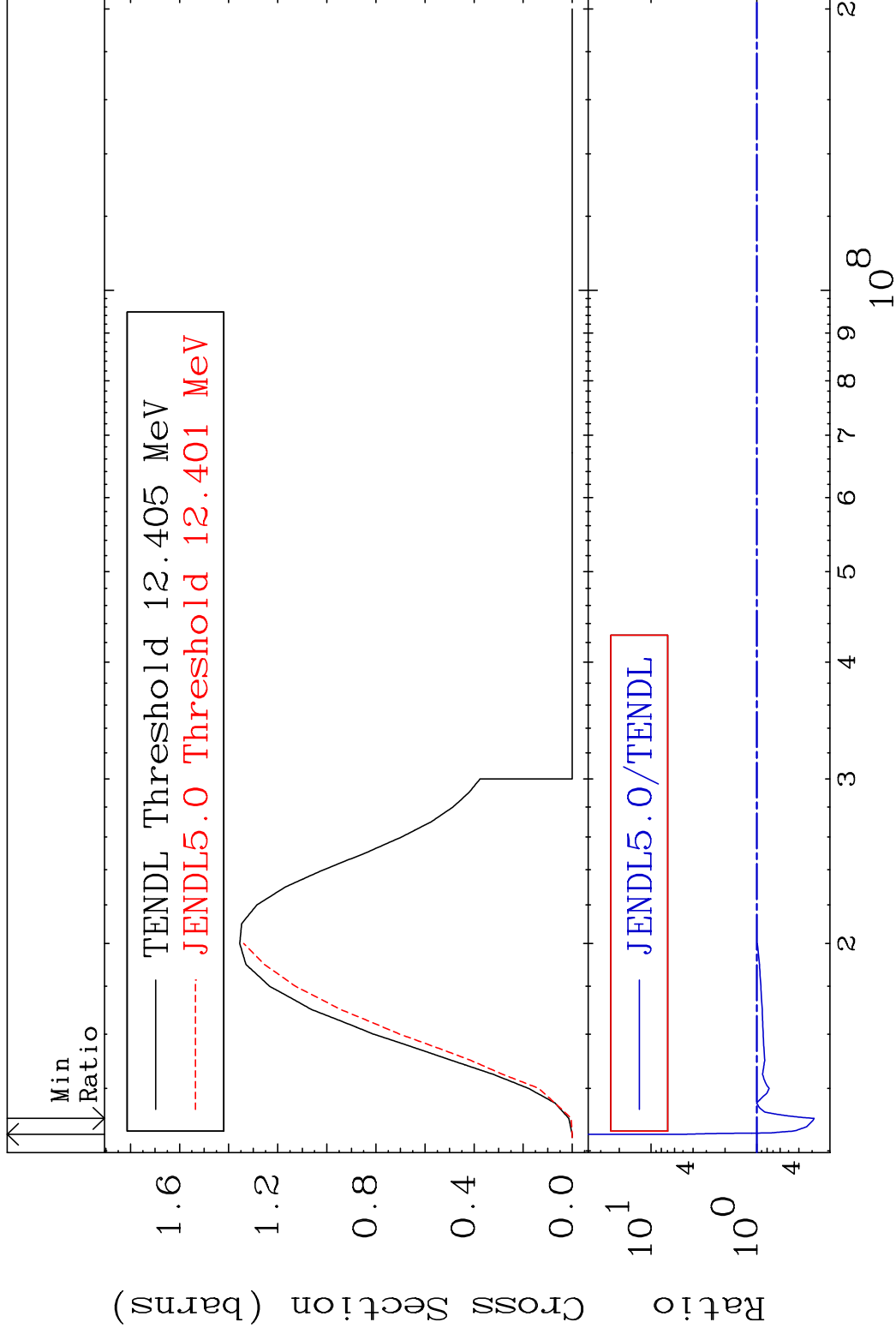
58-Ce-143

MAT 5846

(n,3n)

58-Ce-143

Cross Section -71.34 To 392.0 %



5

Incident Energy (eV)

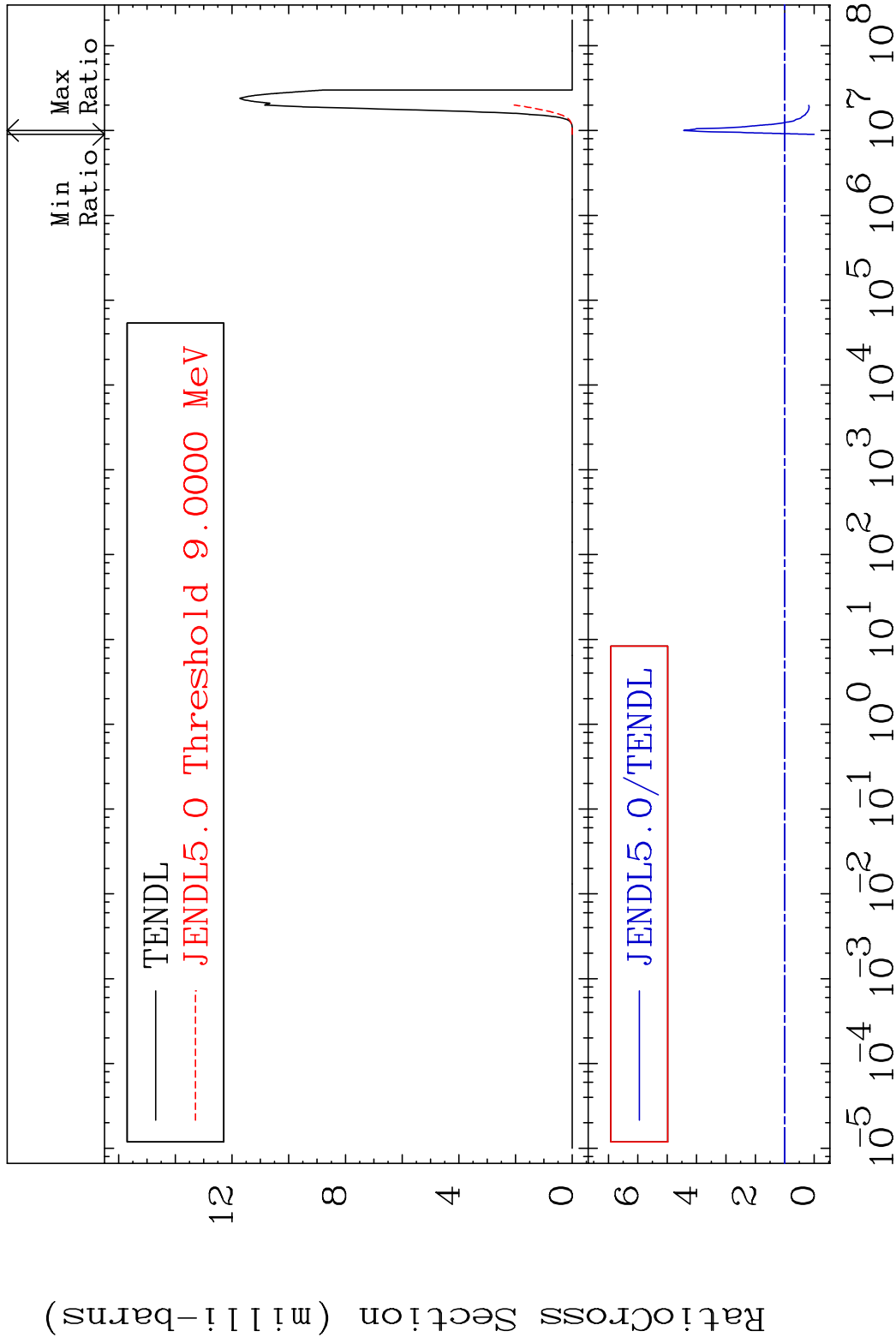
58-Ce-143

MAT 5846

(n, n') α

58-Ce-143

Cross Section -100.0 To 344.0 %



6

Incident Energy (eV)

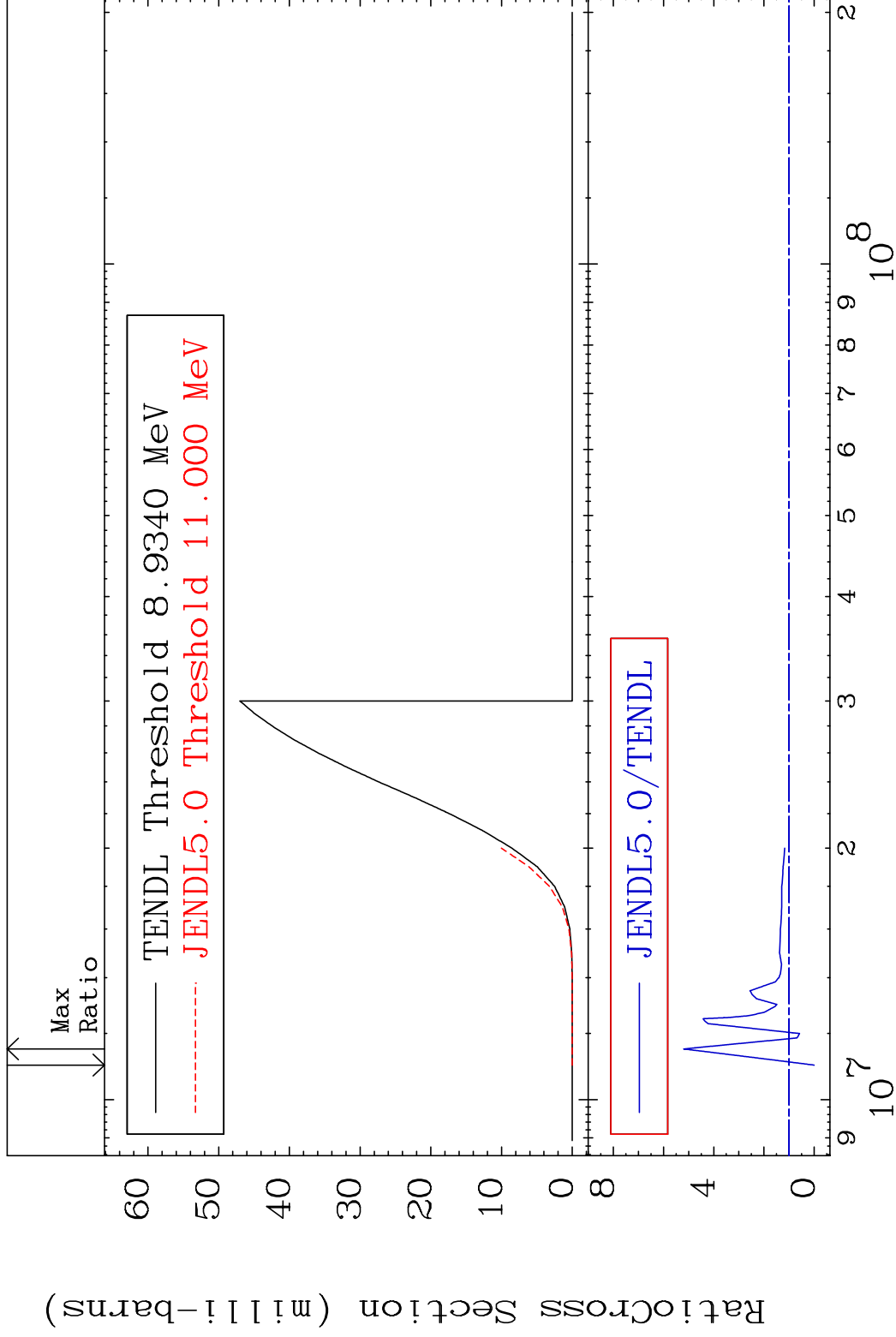
58-Ce-143

MAT 5846

(n, n') p

58-Ce-143

Cross Section -100.0 To 419.9 %



7

Incident Energy (eV)

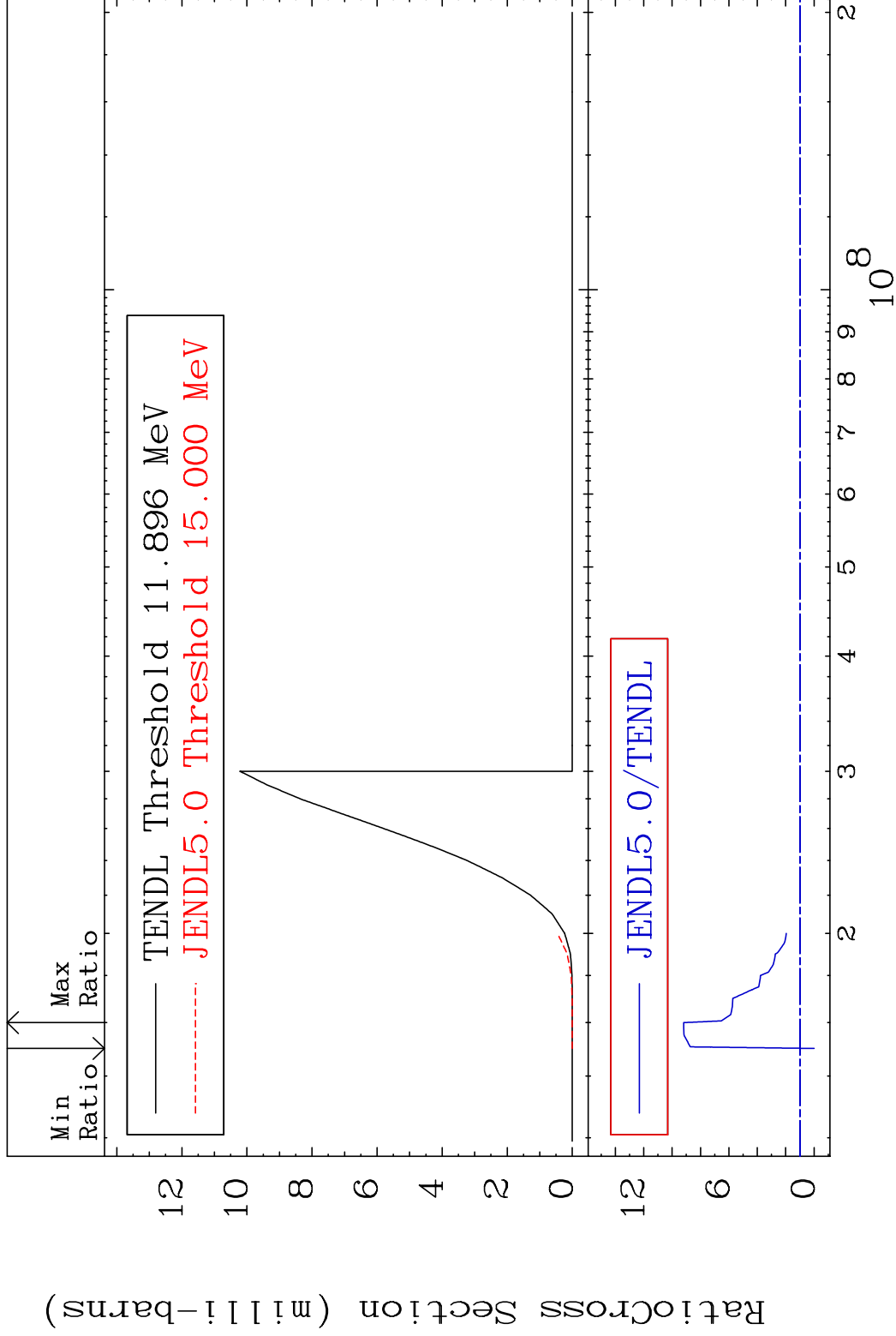
58-Ce-143

MAT 5846

(n, n') d

58-Ce-143

Cross Section -100.0 To 818.7 %

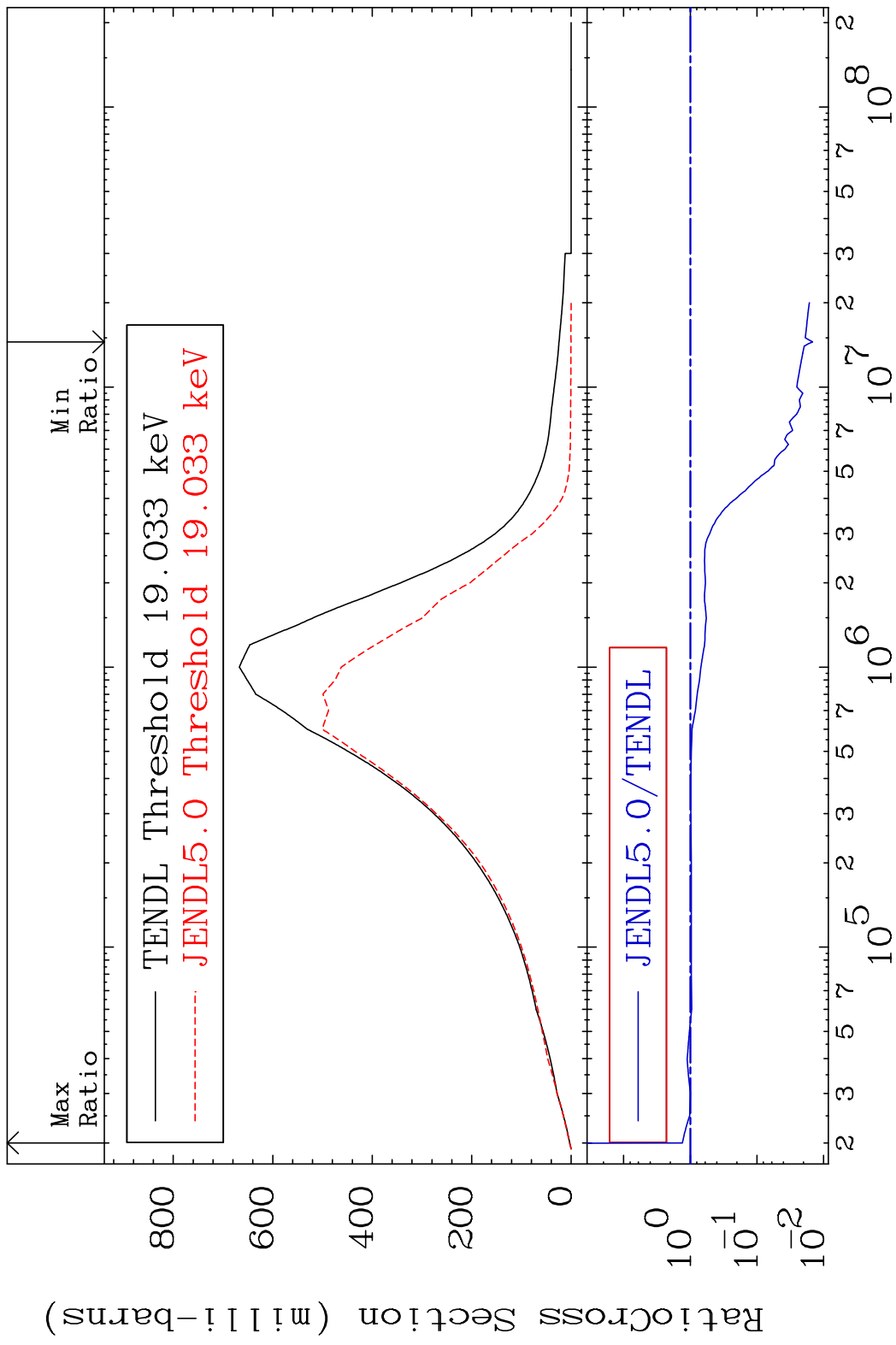


8

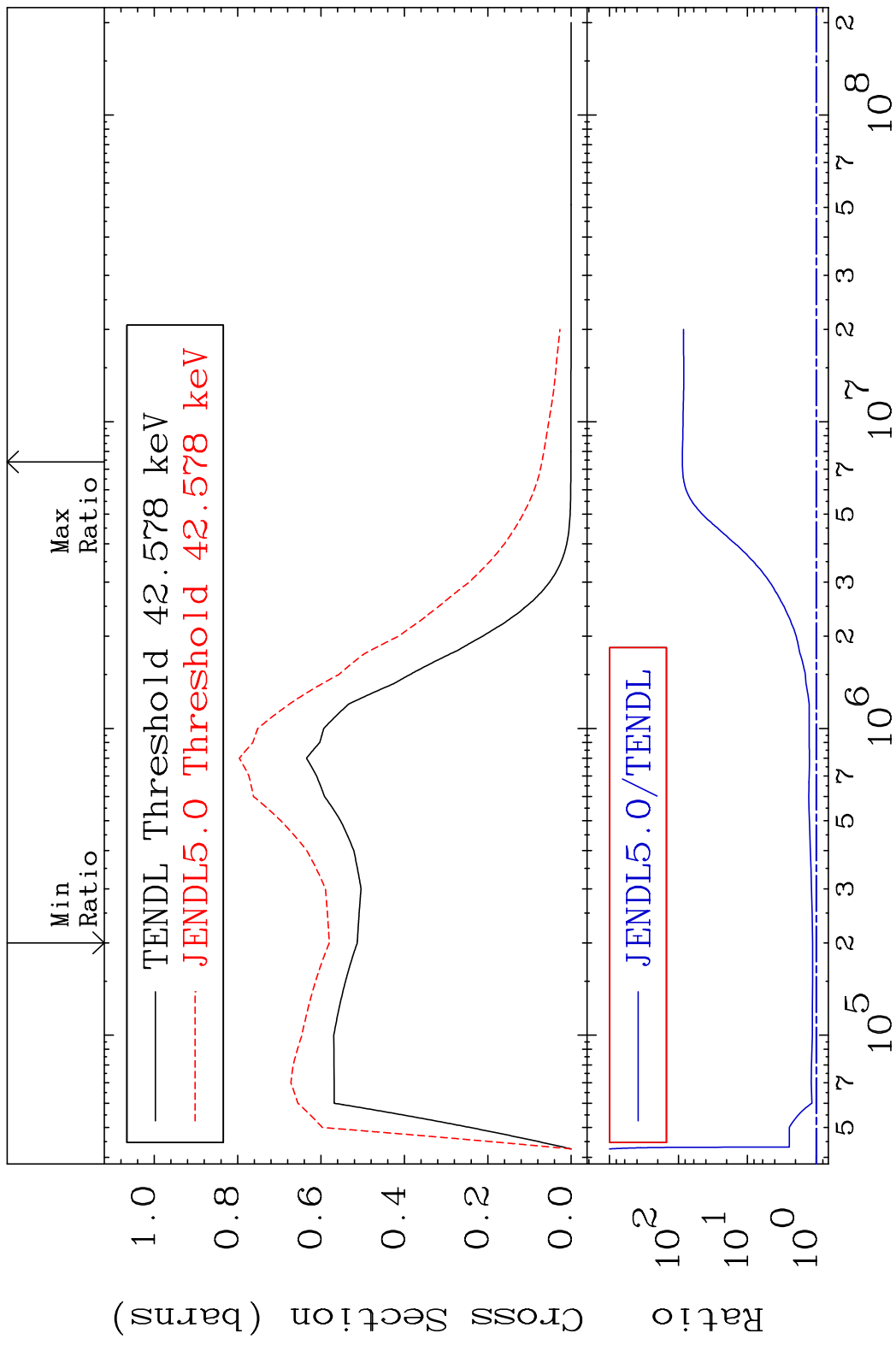
Incident Energy (eV)

58-Ce-143

MAT 5846 MT= 51 (n, n') Level 58-Ce-143
 Cross Section -98.53 To 31.55 %

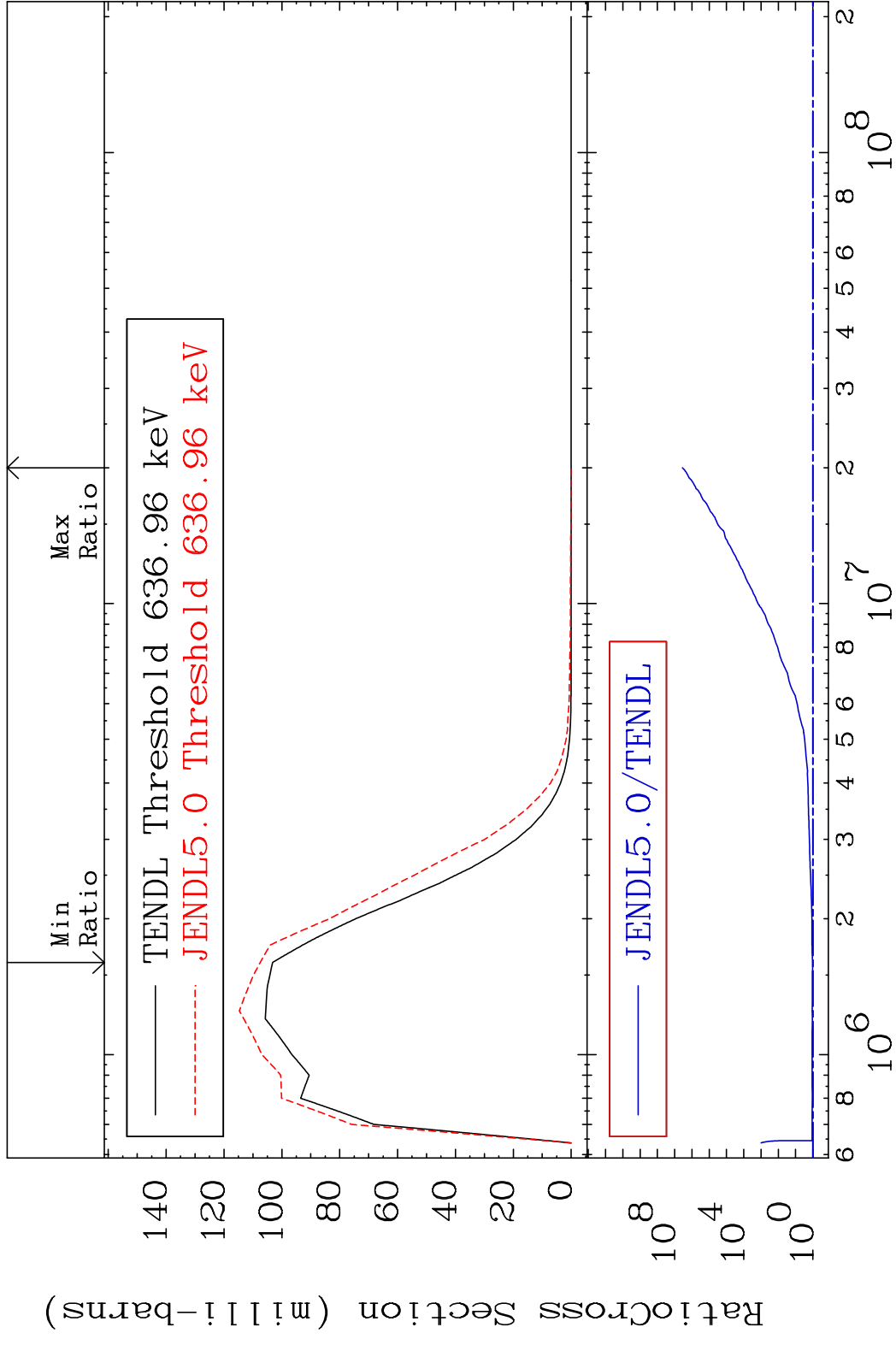


MAT 5846 MT= 52 (n, n') Level 58-Ce-143
 Cross Section 13.05 To 8669. %

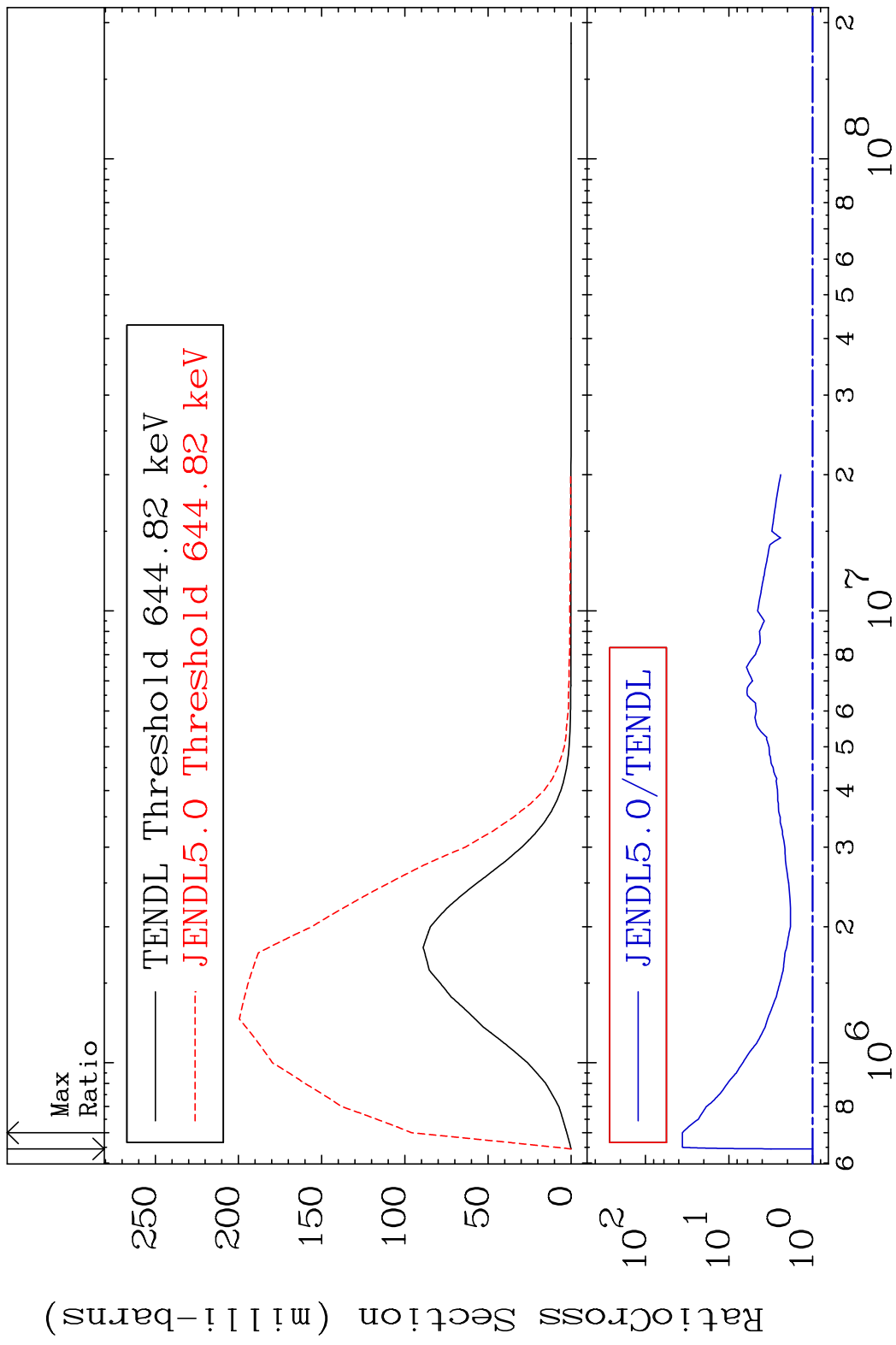


10 Incident Energy (eV) 58-Ce-143

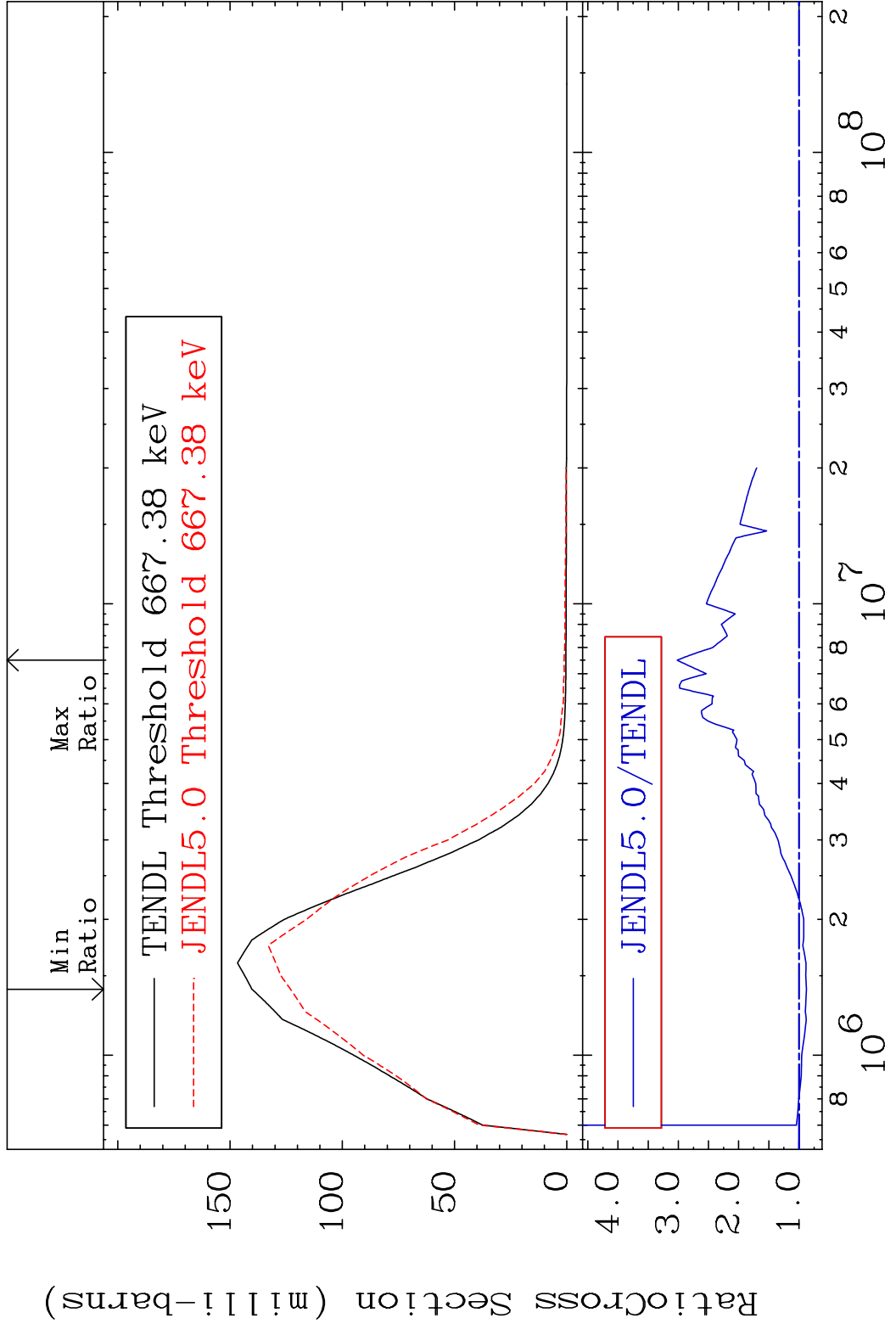
MAT 5846 MT= 53 (n, n') Level 58-Ce-143
 Cross Section 4.122 To 9999. %



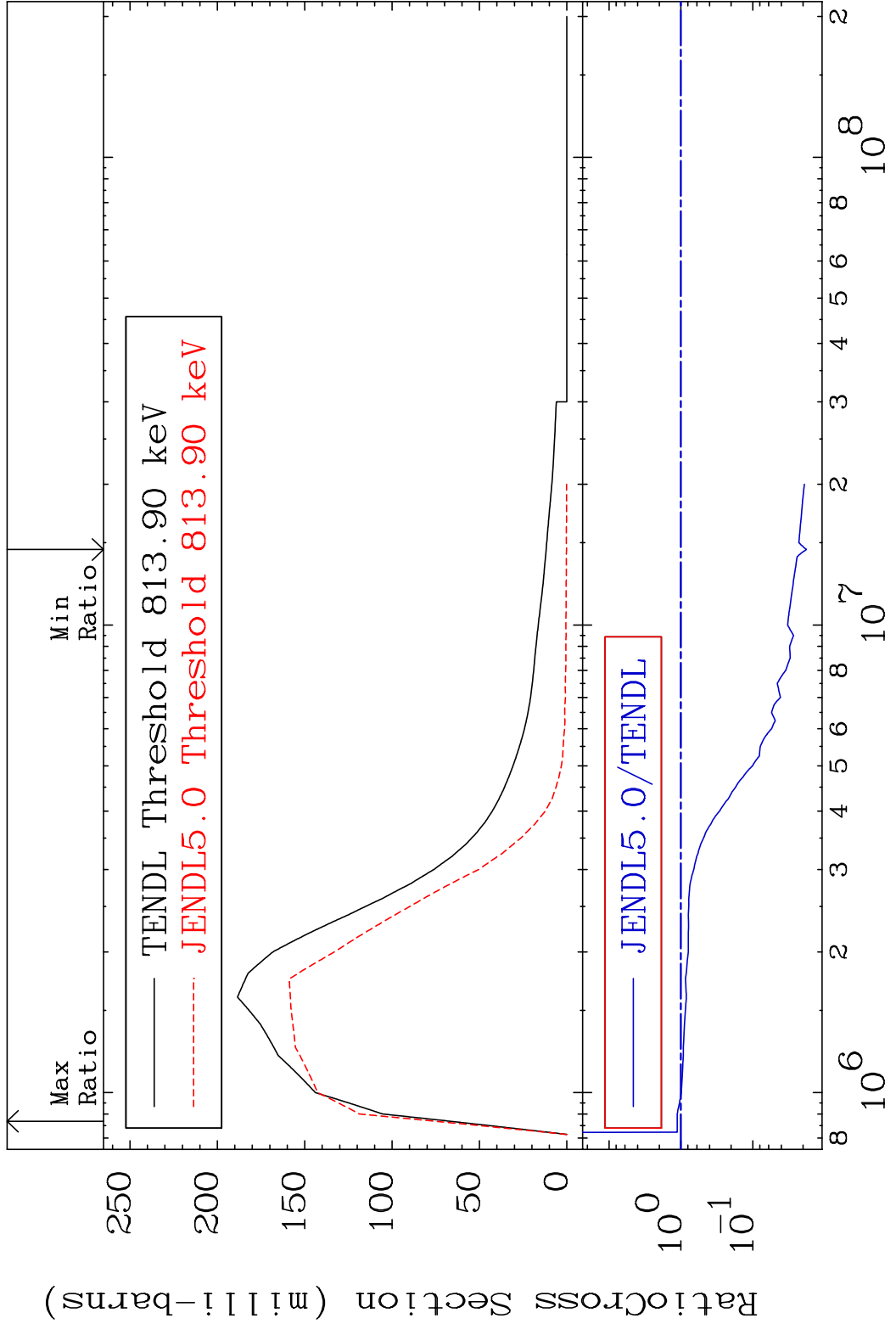
MAT 5846 MT= 54 (n,n') Level 58-Ce-143
 Cross Section 0.000 To 3519. %



MAT 5846 MT= 55 (n, n') Level 58-Ce-143
 Cross Section -12.24 To 201.9 %

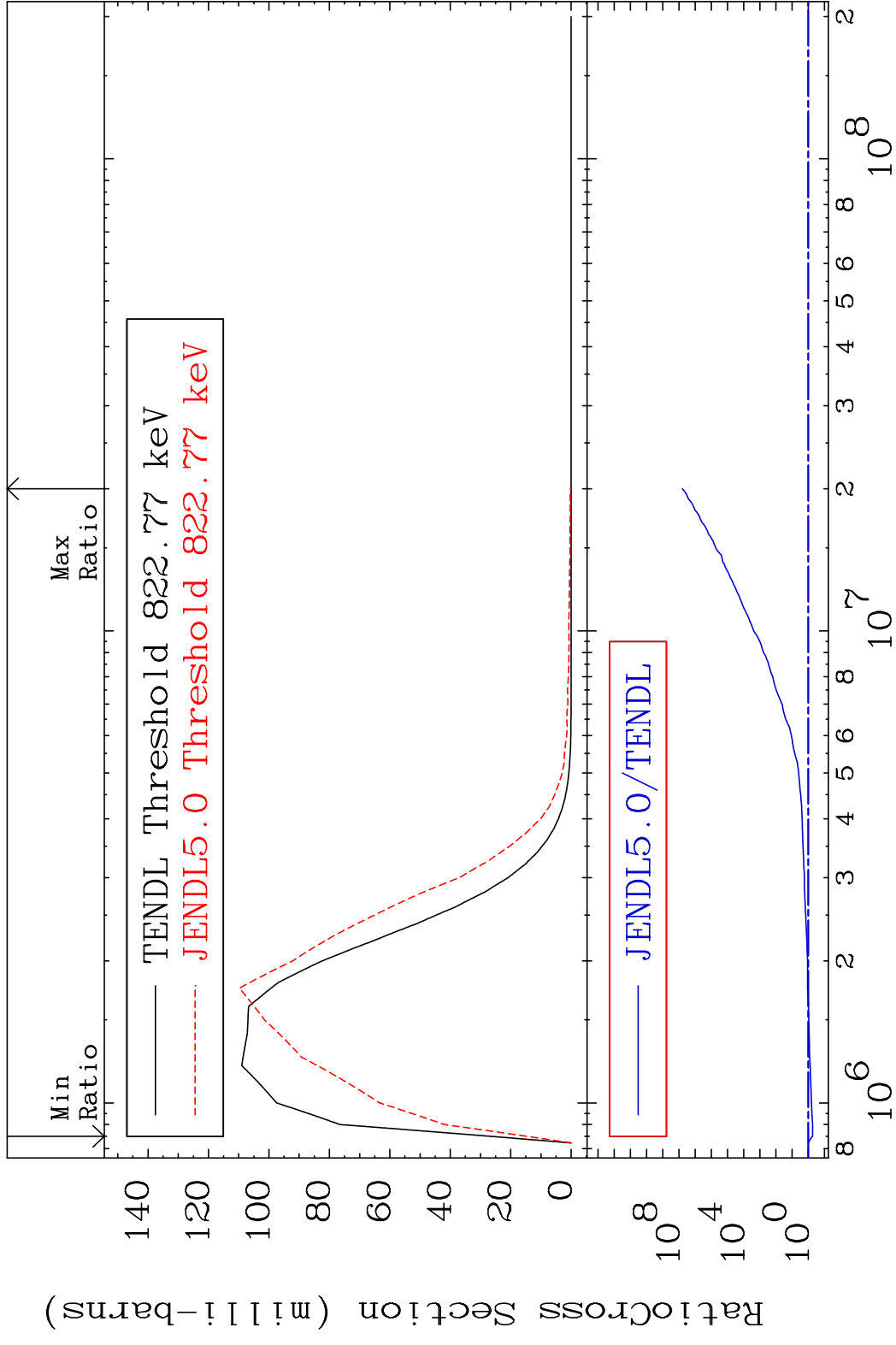


MAT 5846 MT= 56 (n, n') Level 58-Ce-143
 Cross Section -98.21 To 12.66 %



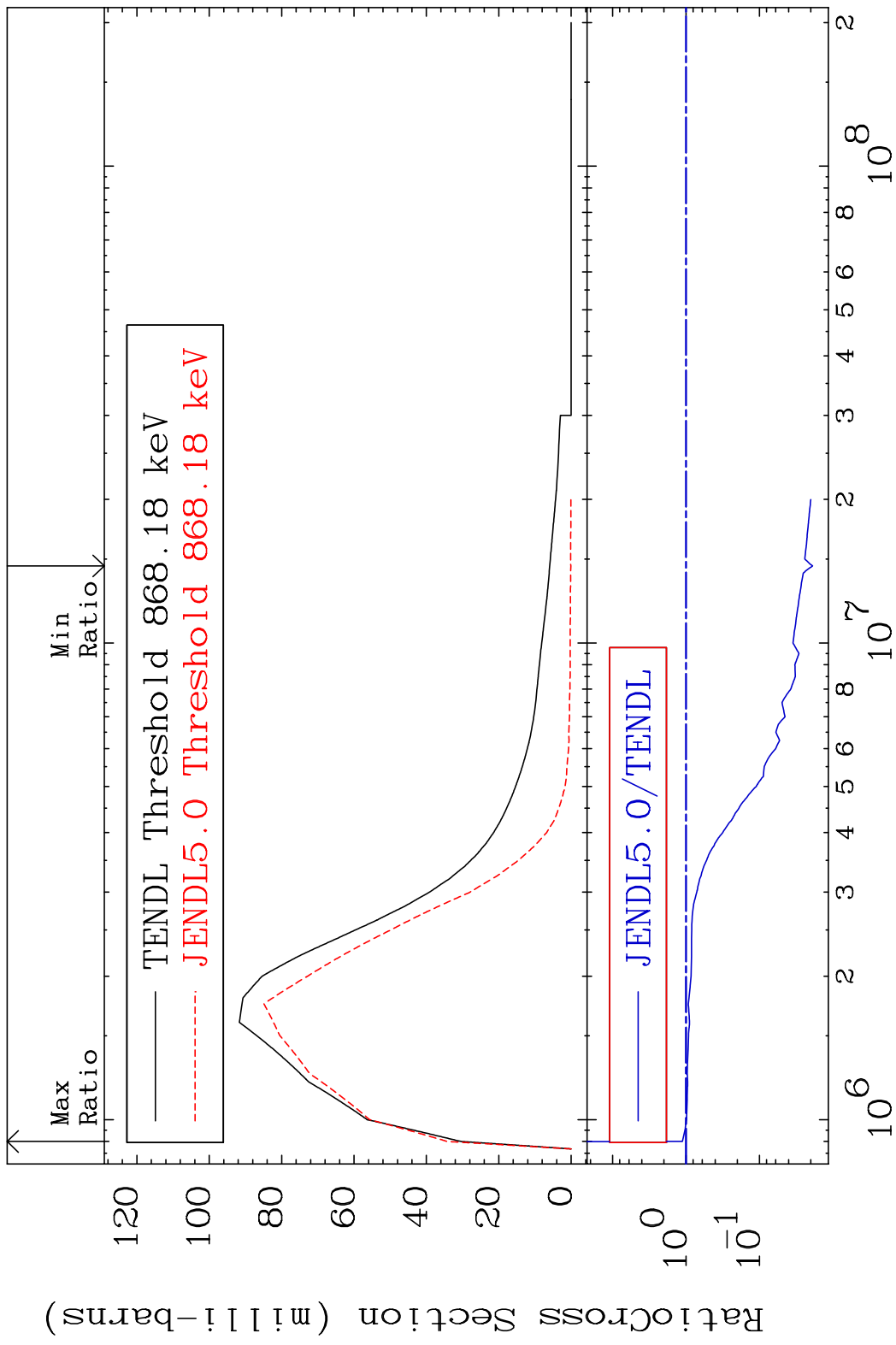
14 Incident Energy (eV) 58-Ce-143

MAT 5846 MT= 57 (n, n') Level 58-Ce-143
 Cross Section -45.12 To 9999. %



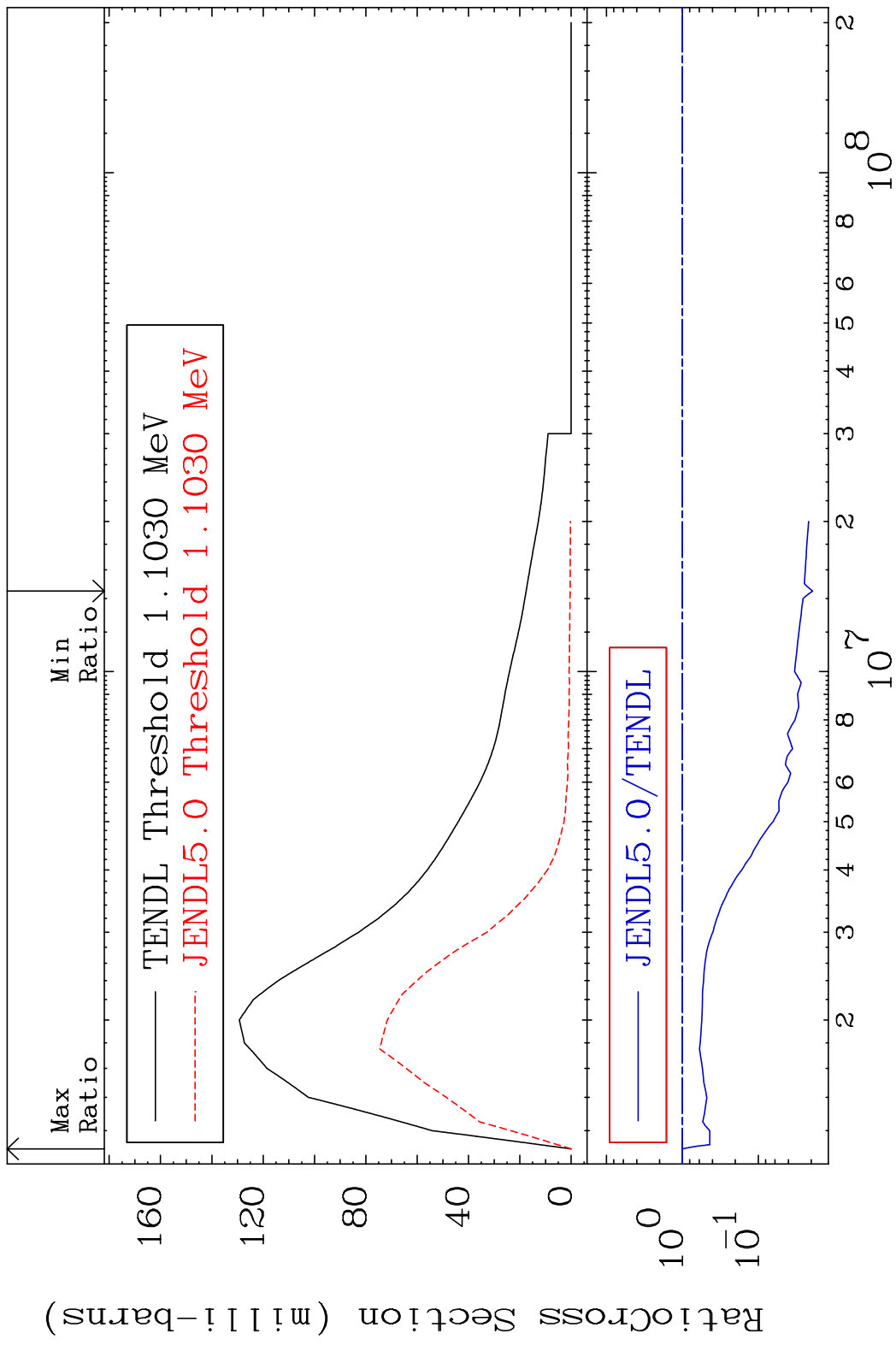
15 Incident Energy (eV) 58-Ce-143

MAT 5846 MT= 58 (n, n') Level 58-Ce-143
 Cross Section -98.11 To 12.30 %

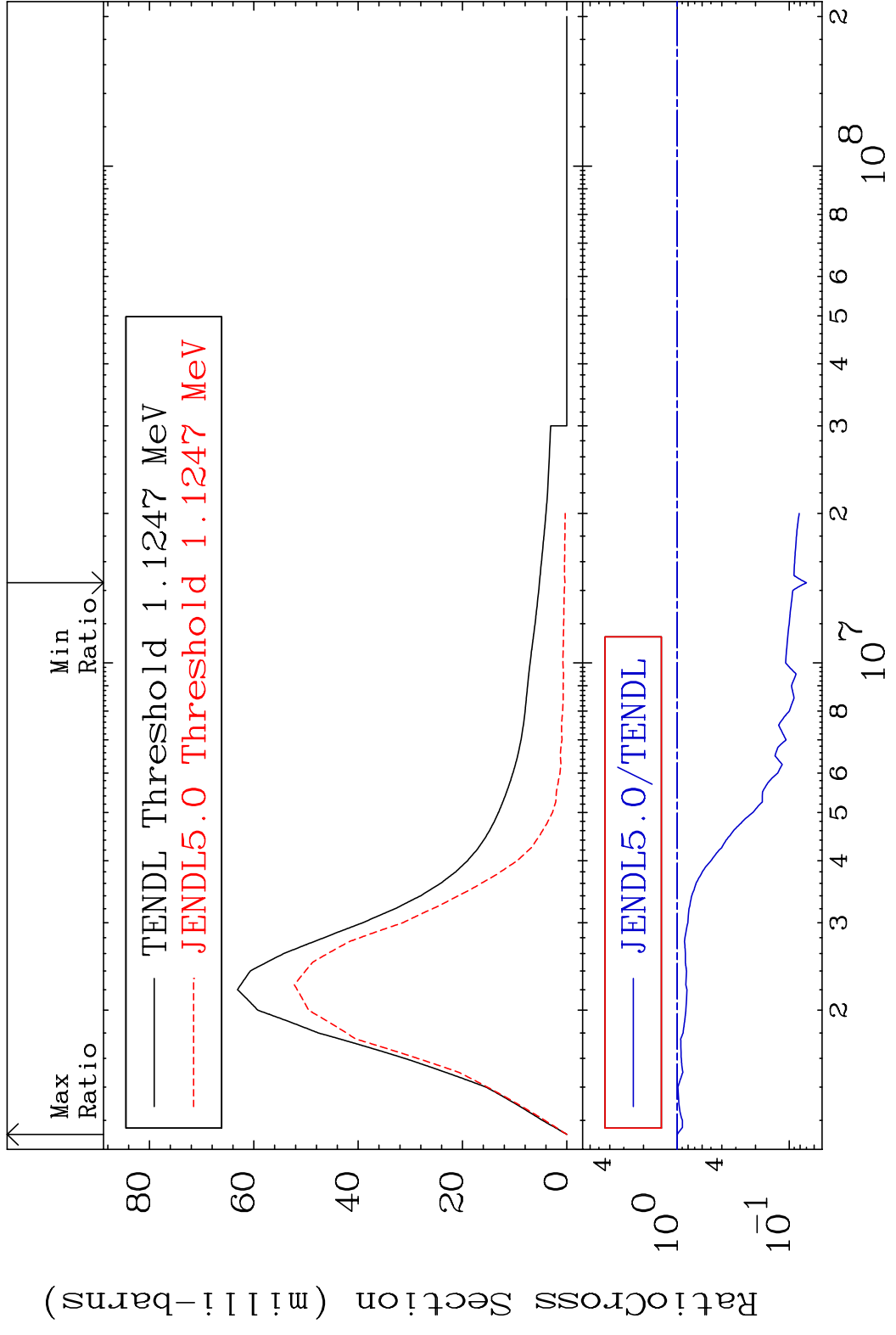


16 Incident Energy (eV) 58-Ce-143

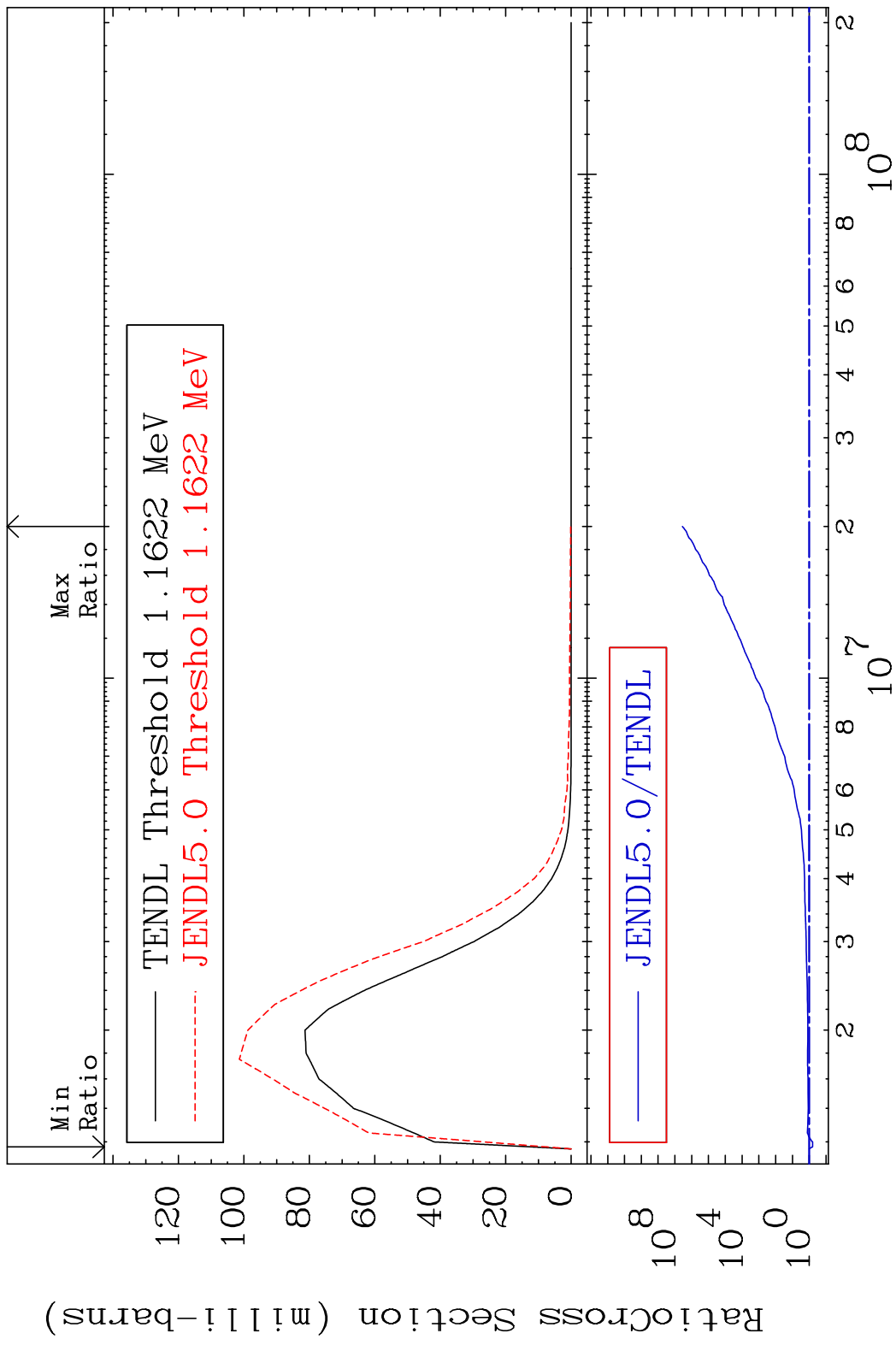
MAT 5846 MT= 59 (n, n') Level 58-Ce-143
 Cross Section -98.08 To 0.000 %



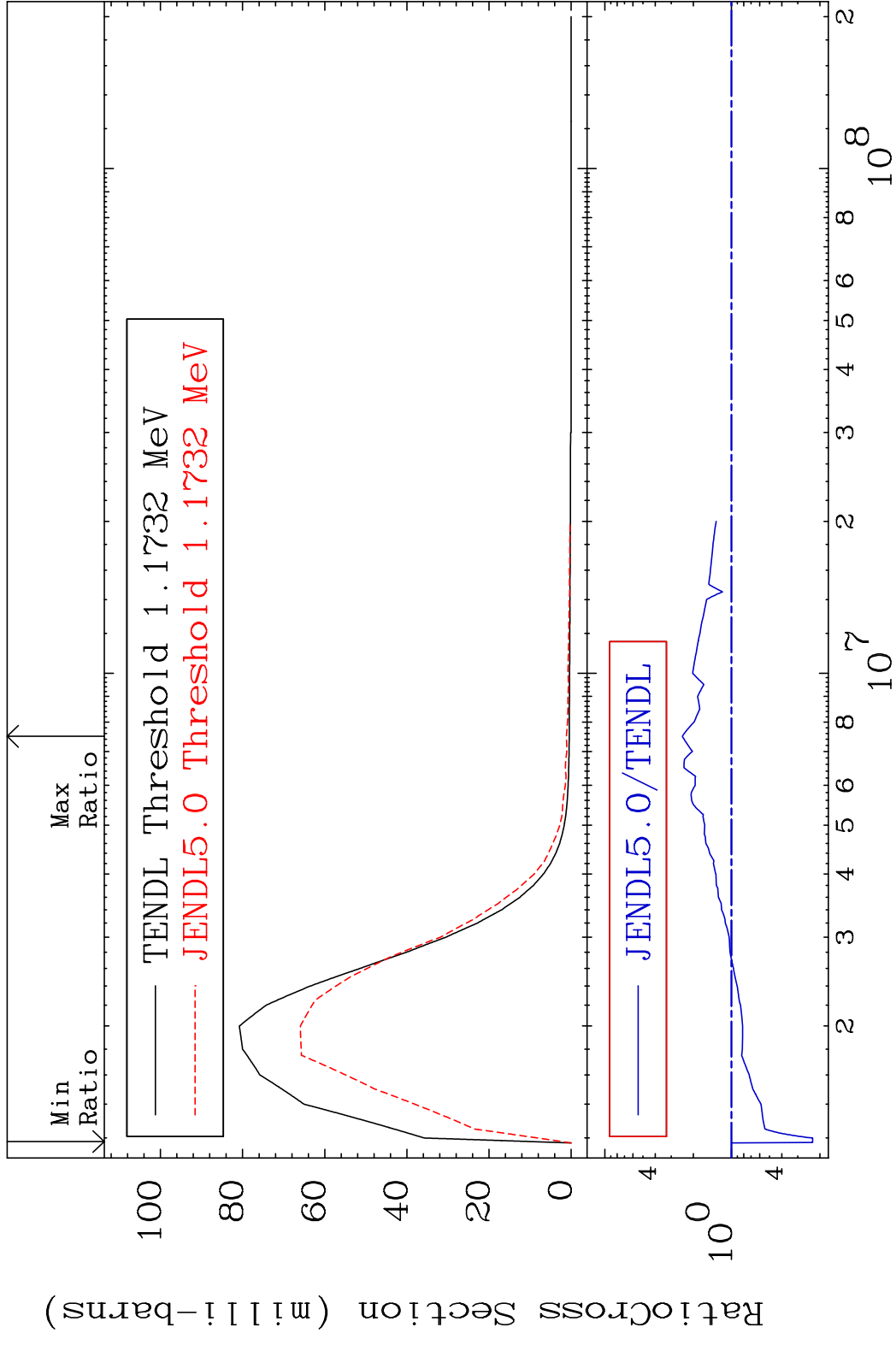
MAT 5846 MT= 60 (n, n') Level 58-Ce-143
 Cross Section -92.98 To 0.000 %



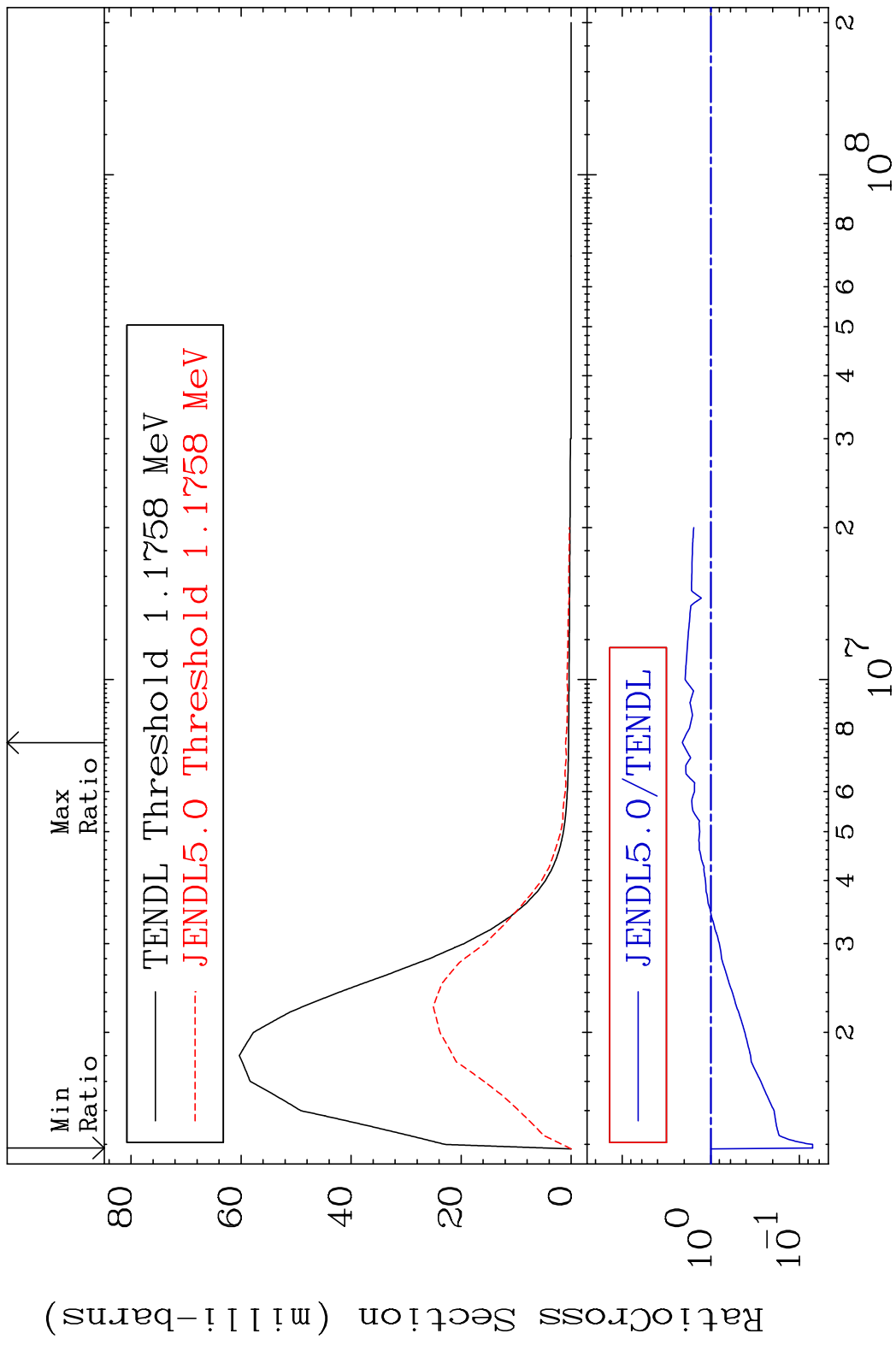
MAT 5846 MT= 61 (n, n') Level 58-Ce-143
 Cross Section -36.50 To 9999. %



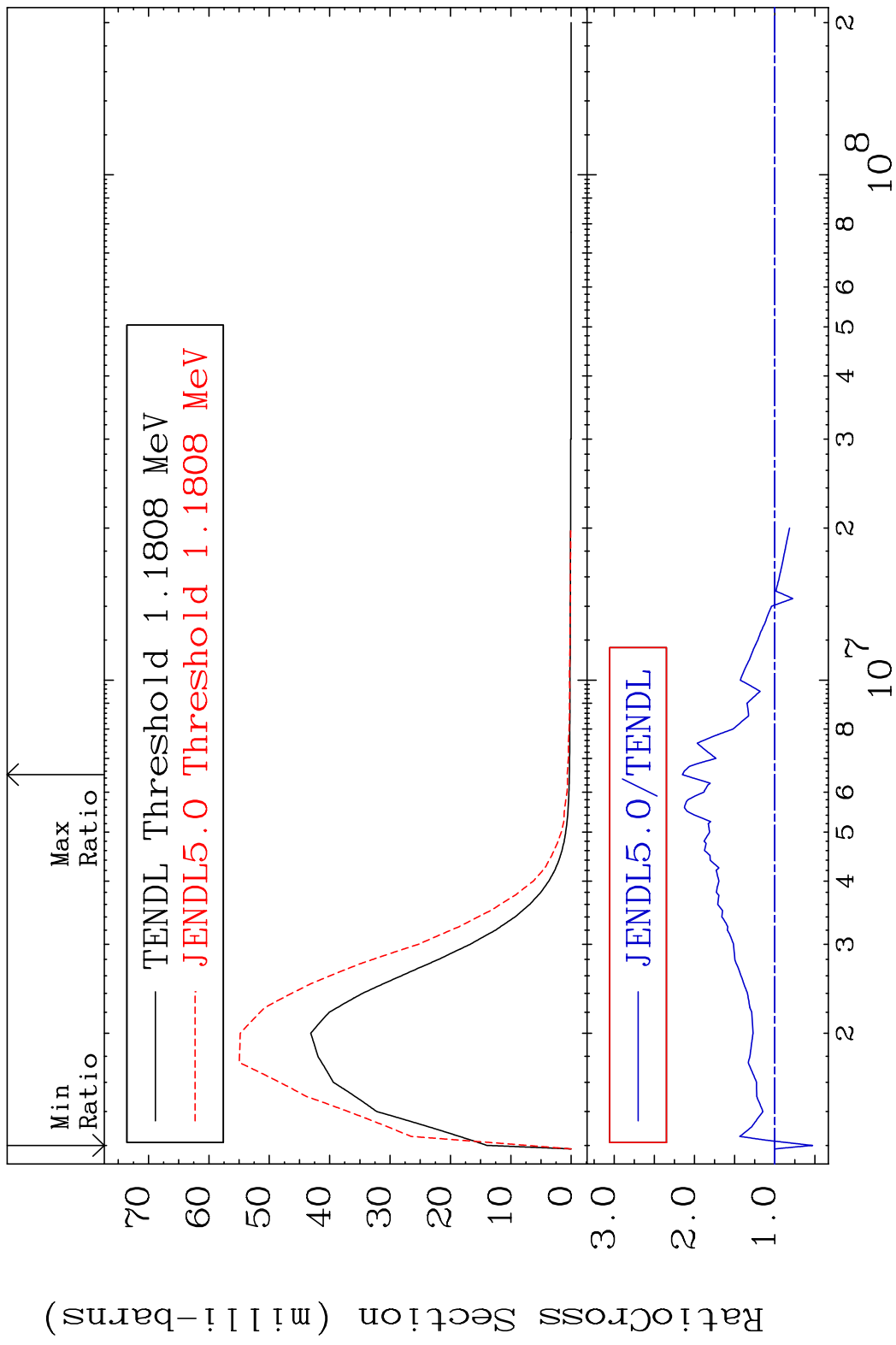
MAT 5846 MT= 62 (n, n') Level 58-Ce-143
 Cross Section -77.11 To 144.5 %



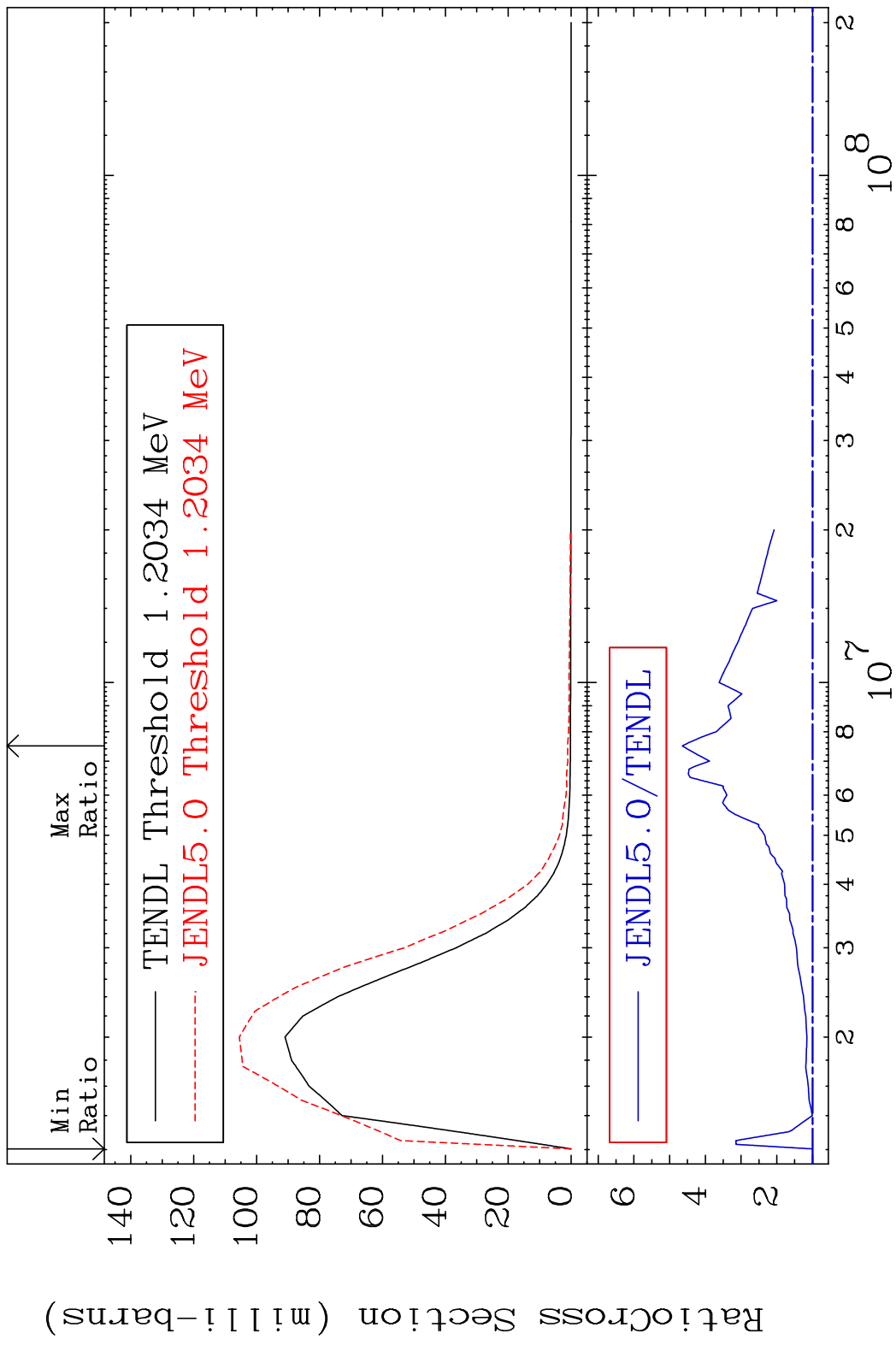
MAT 5846 MT= 63 (n, n') Level 58-Ce-143
 Cross Section -92.89 To 109.4 %



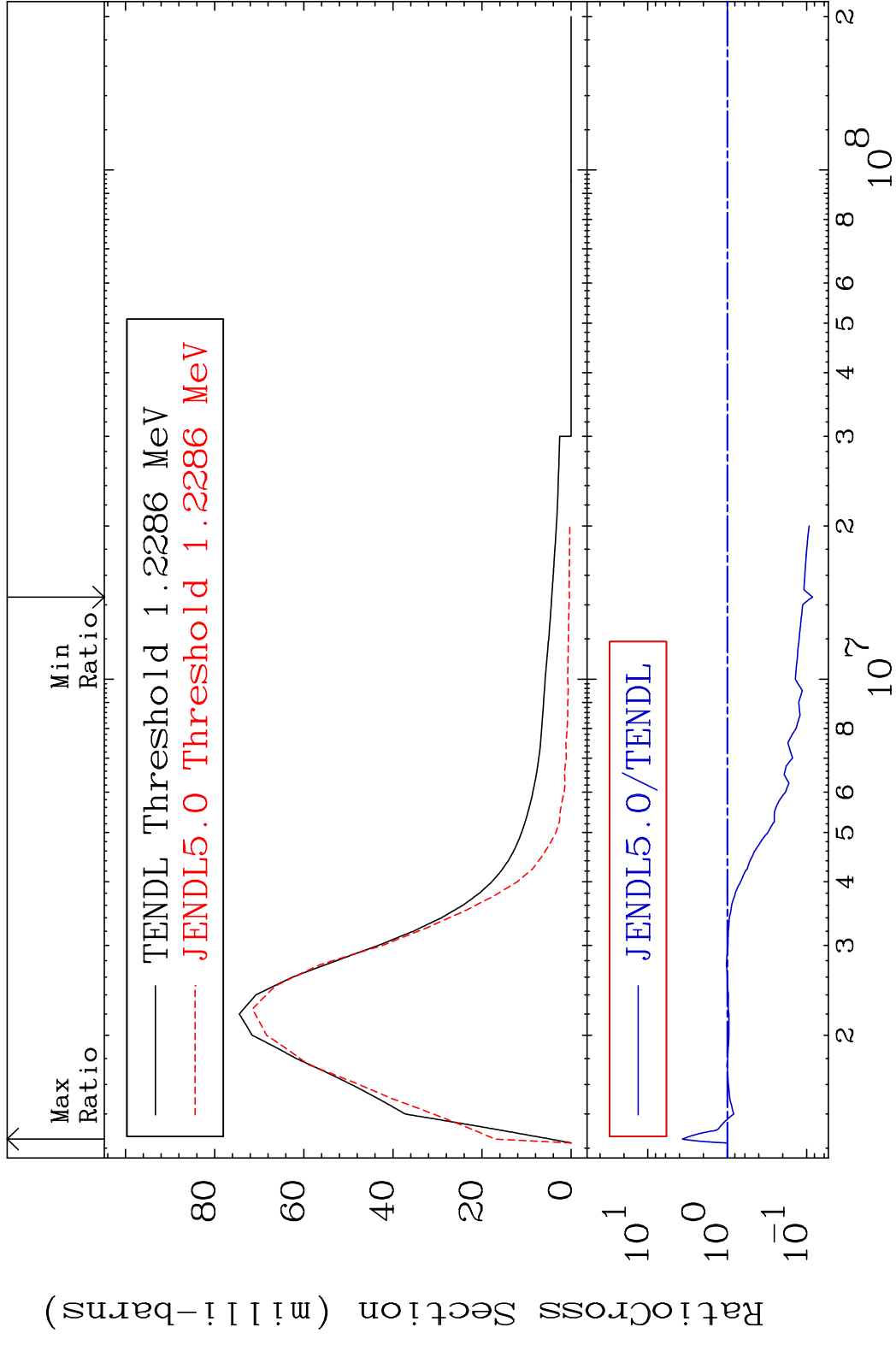
MAT 5846 MT= 64 (n,n') Level 58-Ce-143
 Cross Section -47.13 To 115.1 %



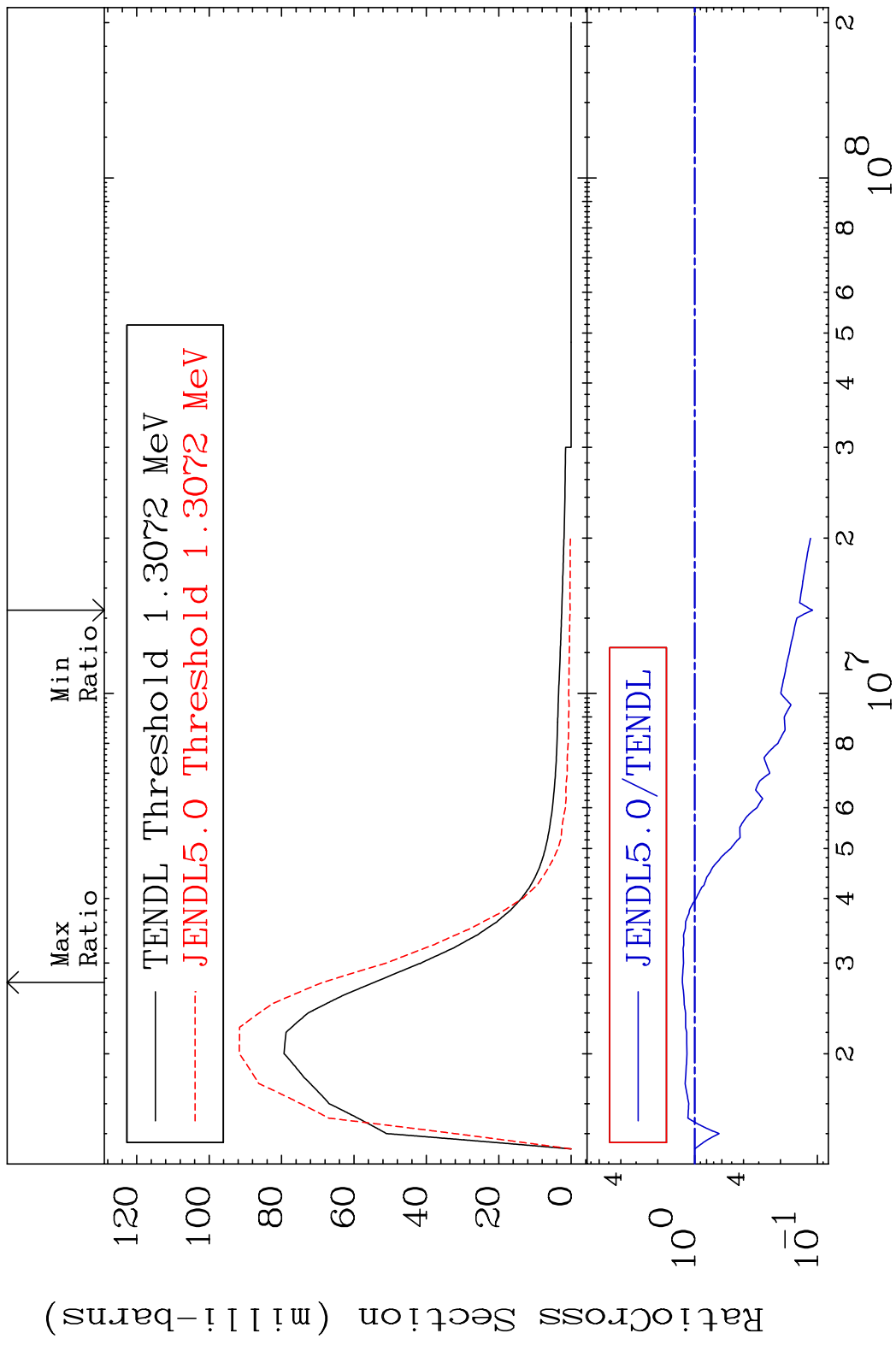
MAT 5846 MT= 65 (n,n') Level 58-Ce-143
 Cross Section 0.000 To 364.4 %



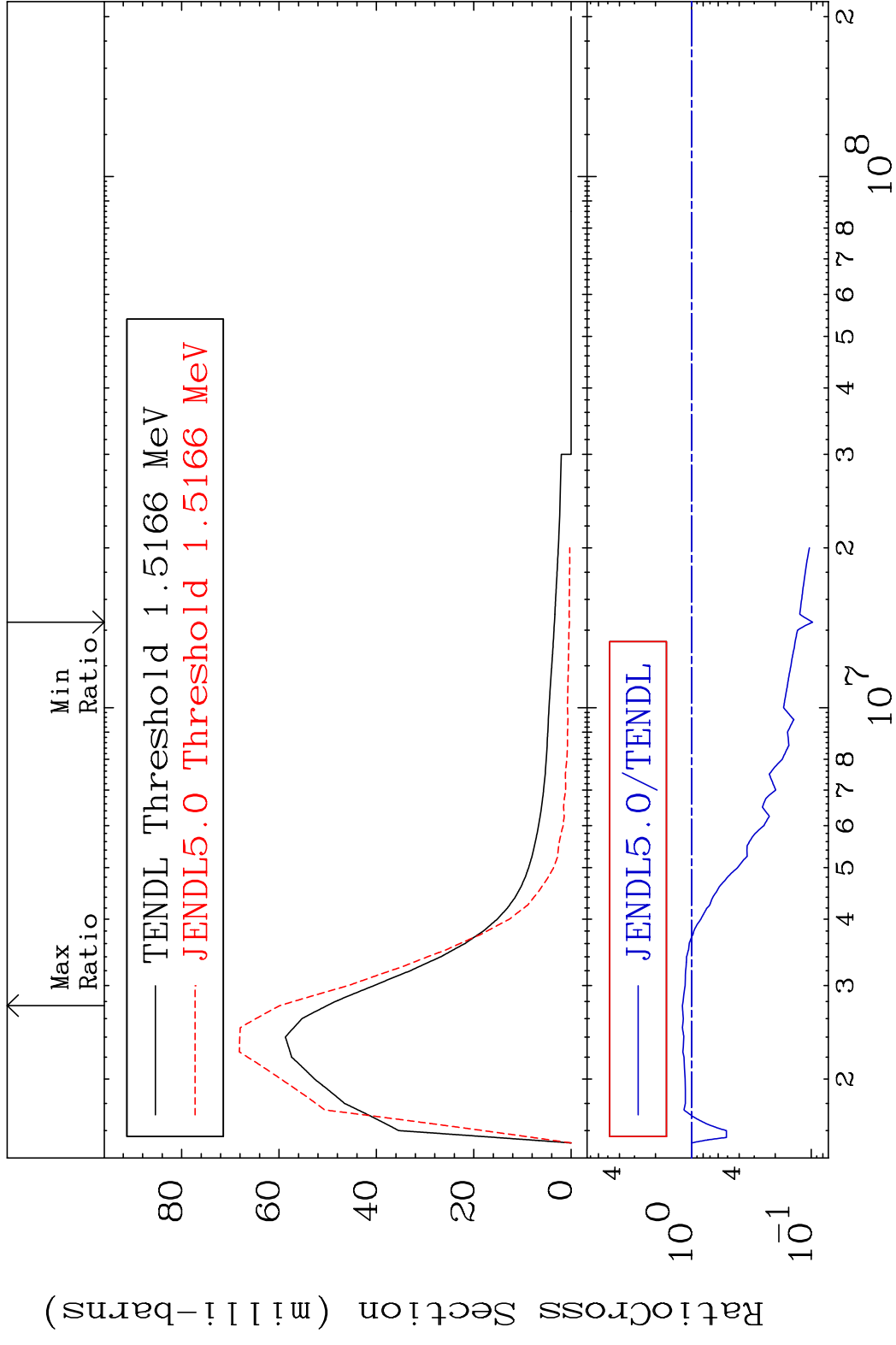
MAT 5846 MT= 66 (n, n') Level 58-Ce-143
 Cross Section -91.58 To 267.3 %



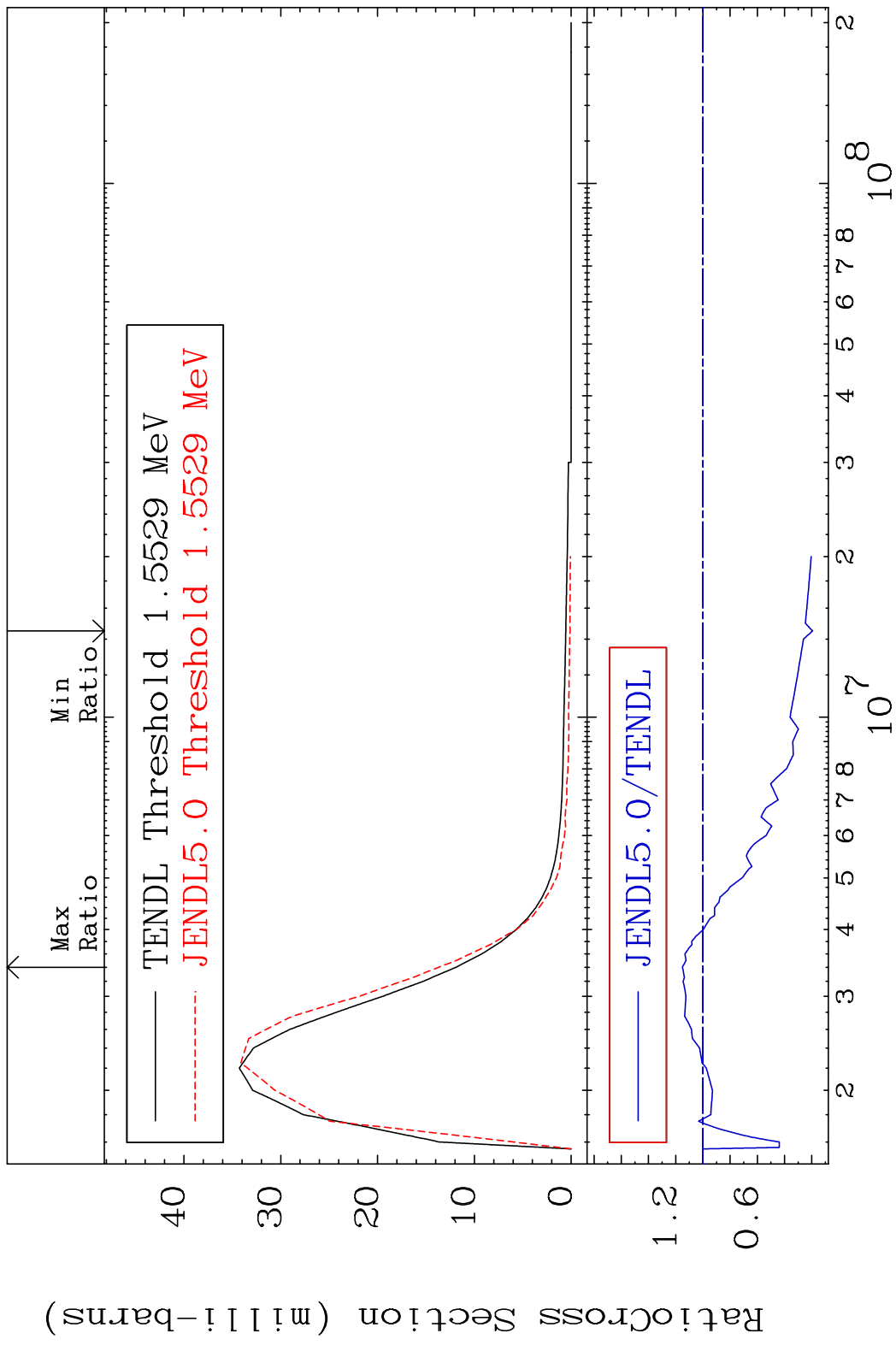
MAT 5846 MT= 67 (n, n') Level 58-Ce-143
 Cross Section -89.03 To 25.99 %



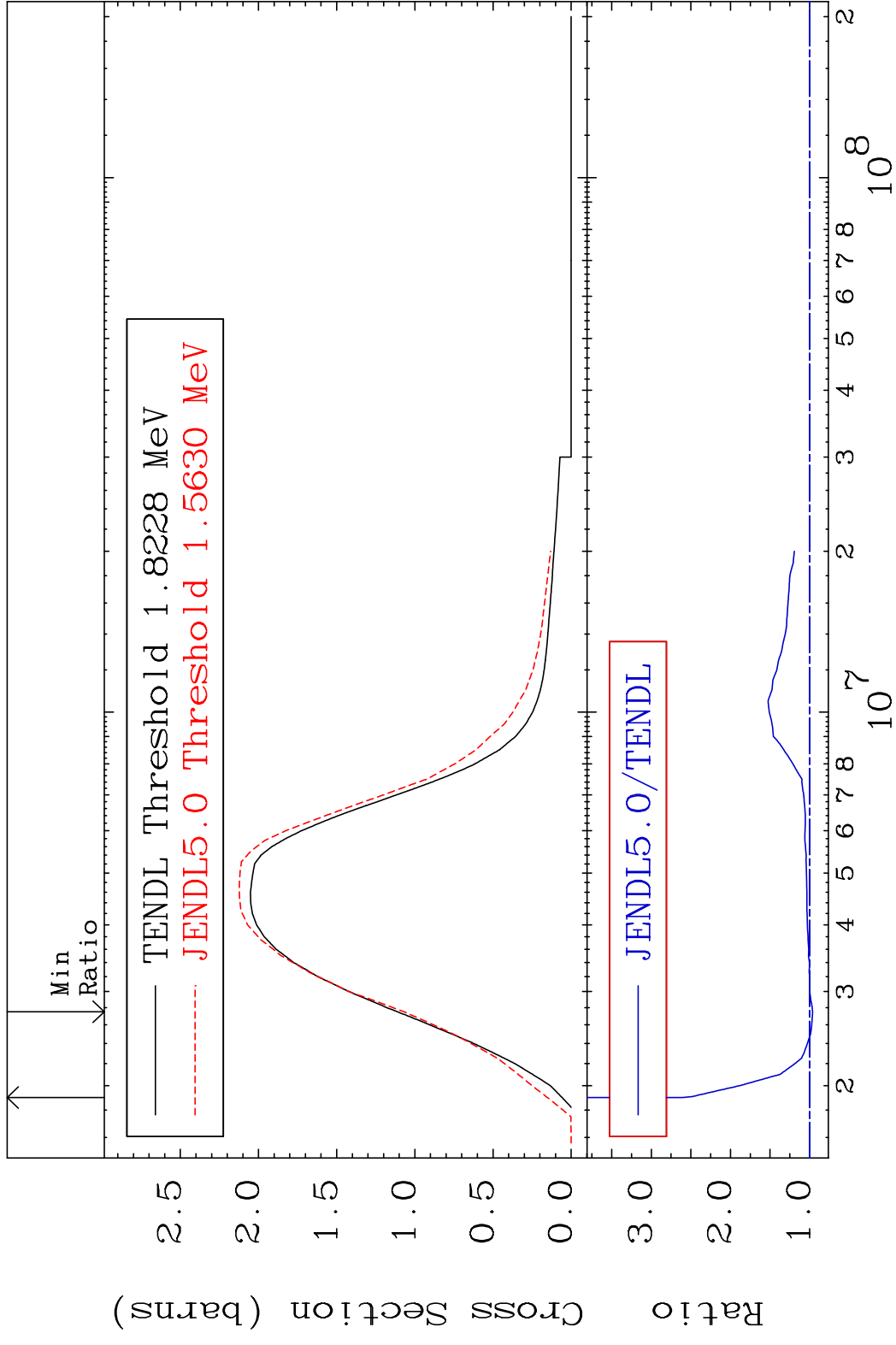
MAT 5846 MT= 68 (n, n') Level 58-Ce-143
 Cross Section -90.25 To 19.36 %



MAT 5846 MT= 69 (n, n') Level 58-Ce-143
 Cross Section -80.57 To 15.11 %



MAT 5846 (n, n') Continuum 58-Ce-143
 Cross Section -3.720 To 160.8 %

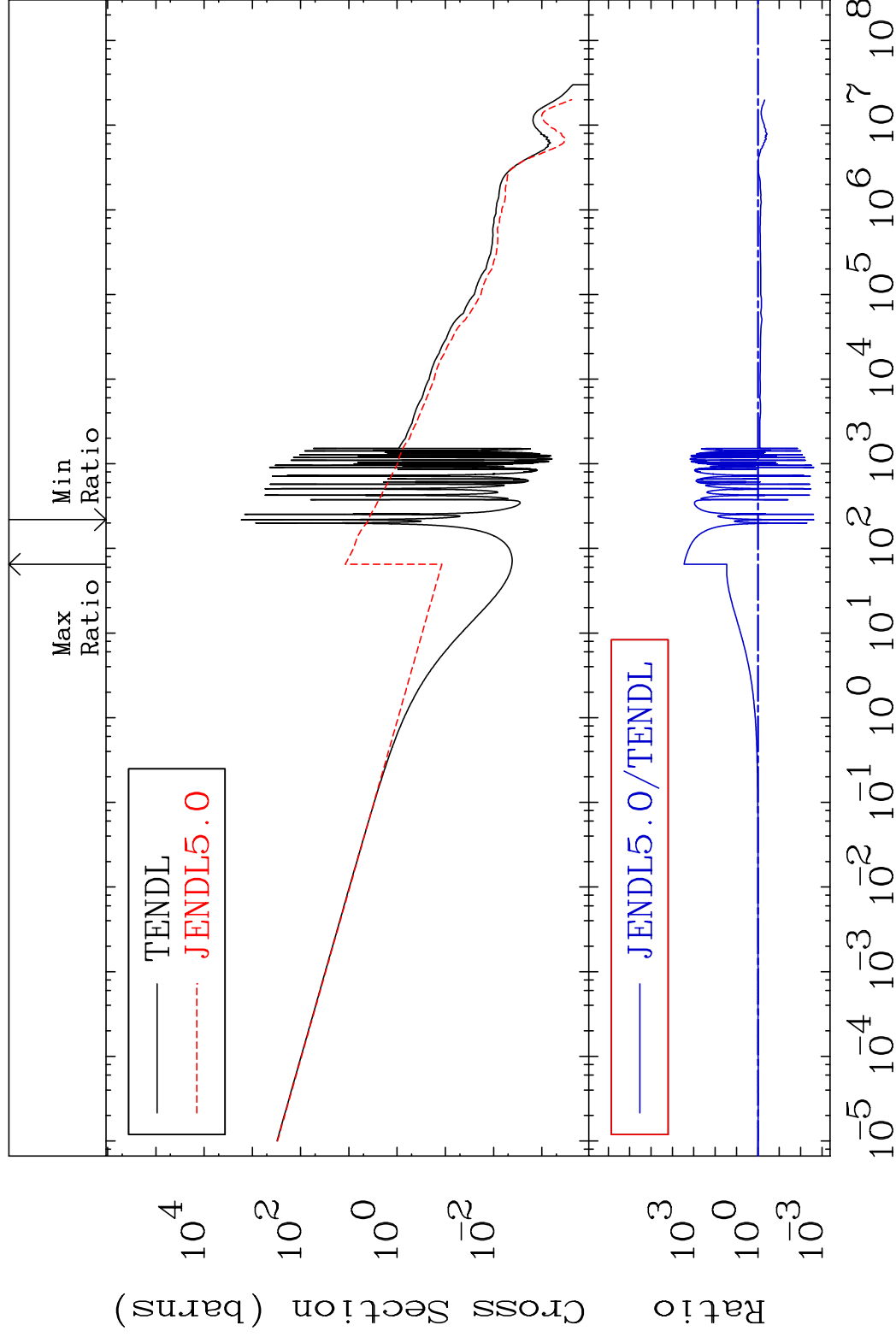


MAT 5846

(n, γ)

58-Ce-143

Cross Section -99.77 To 9999. %



29

Incident Energy (eV)

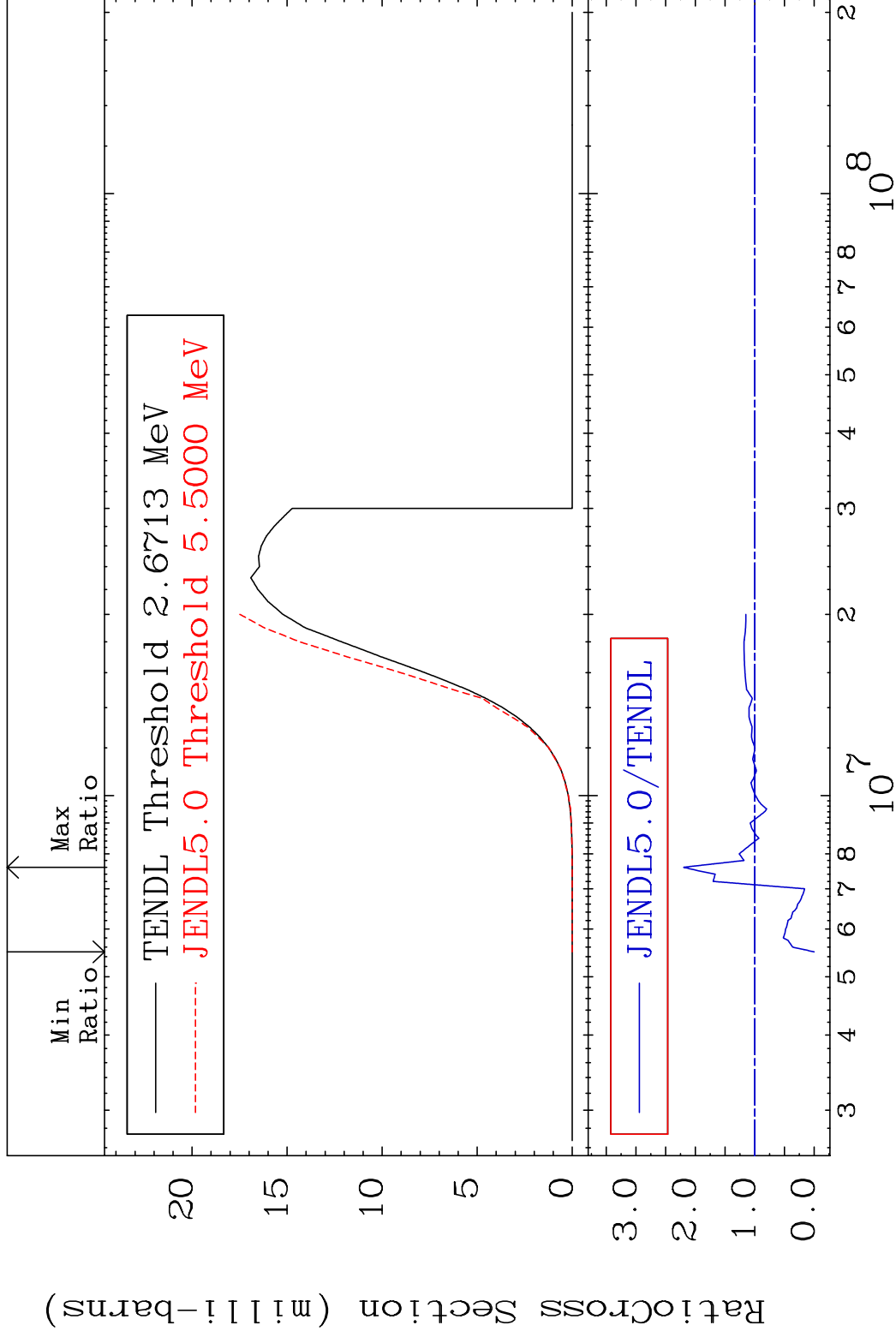
58-Ce-143

MAT 5846

(n, p)

58-Ce-143

Cross Section -100.0 To 119.7 %



30

Incident Energy (eV)

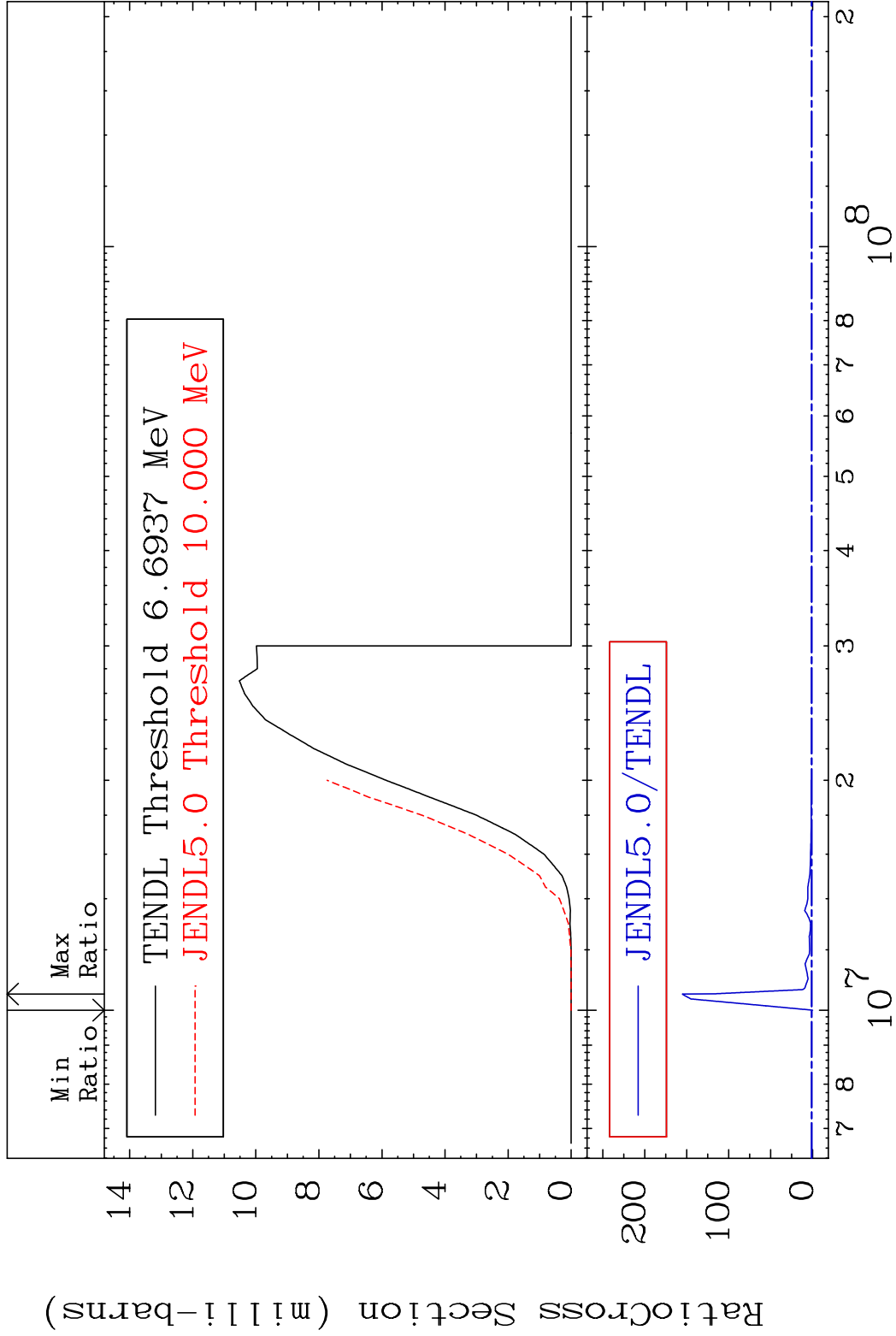
58-Ce-143

MAT 5846

(n,d)

58-Ce-143

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

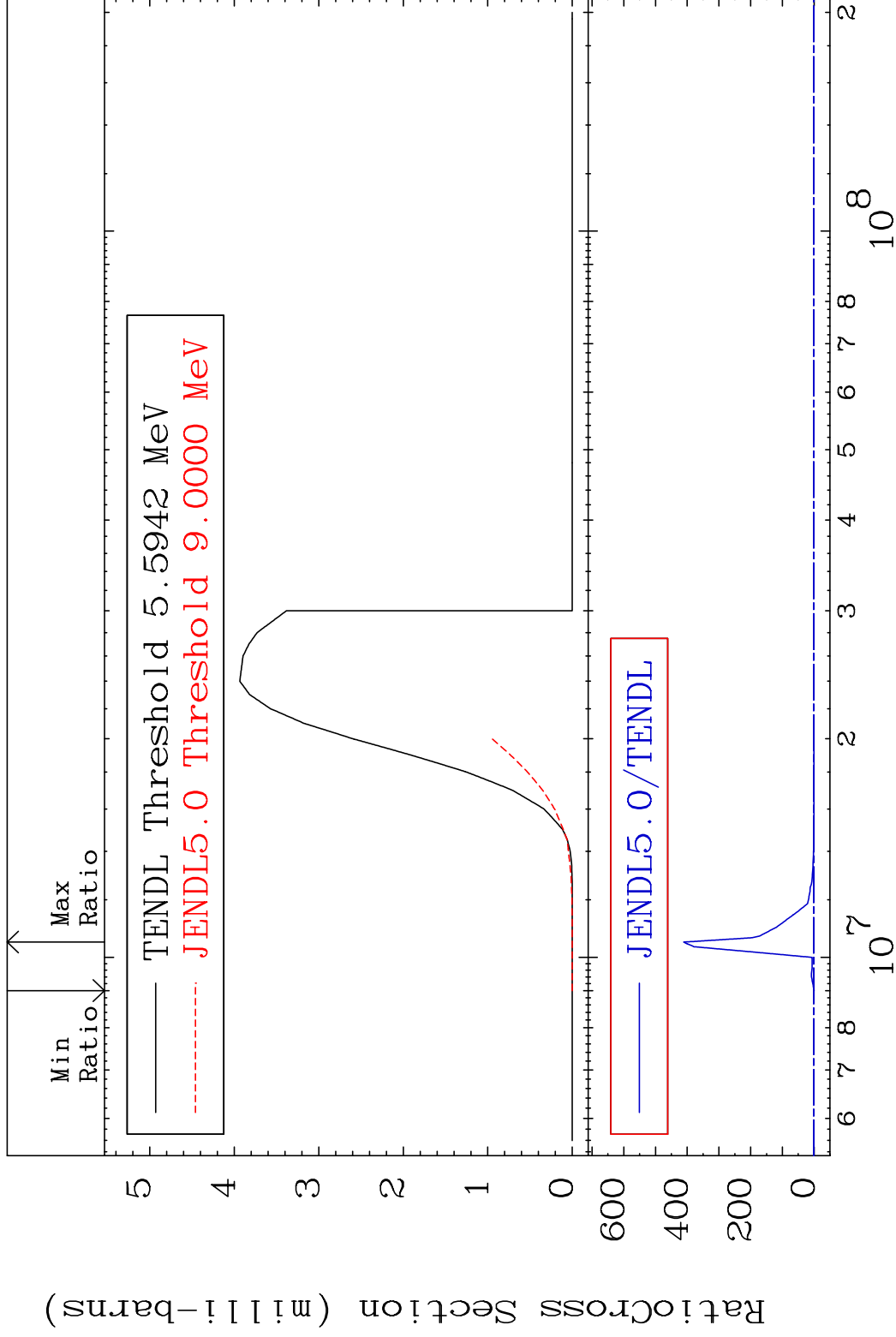
58-Ce-143

MAT 5846

(n, t)

58-Ce-143

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

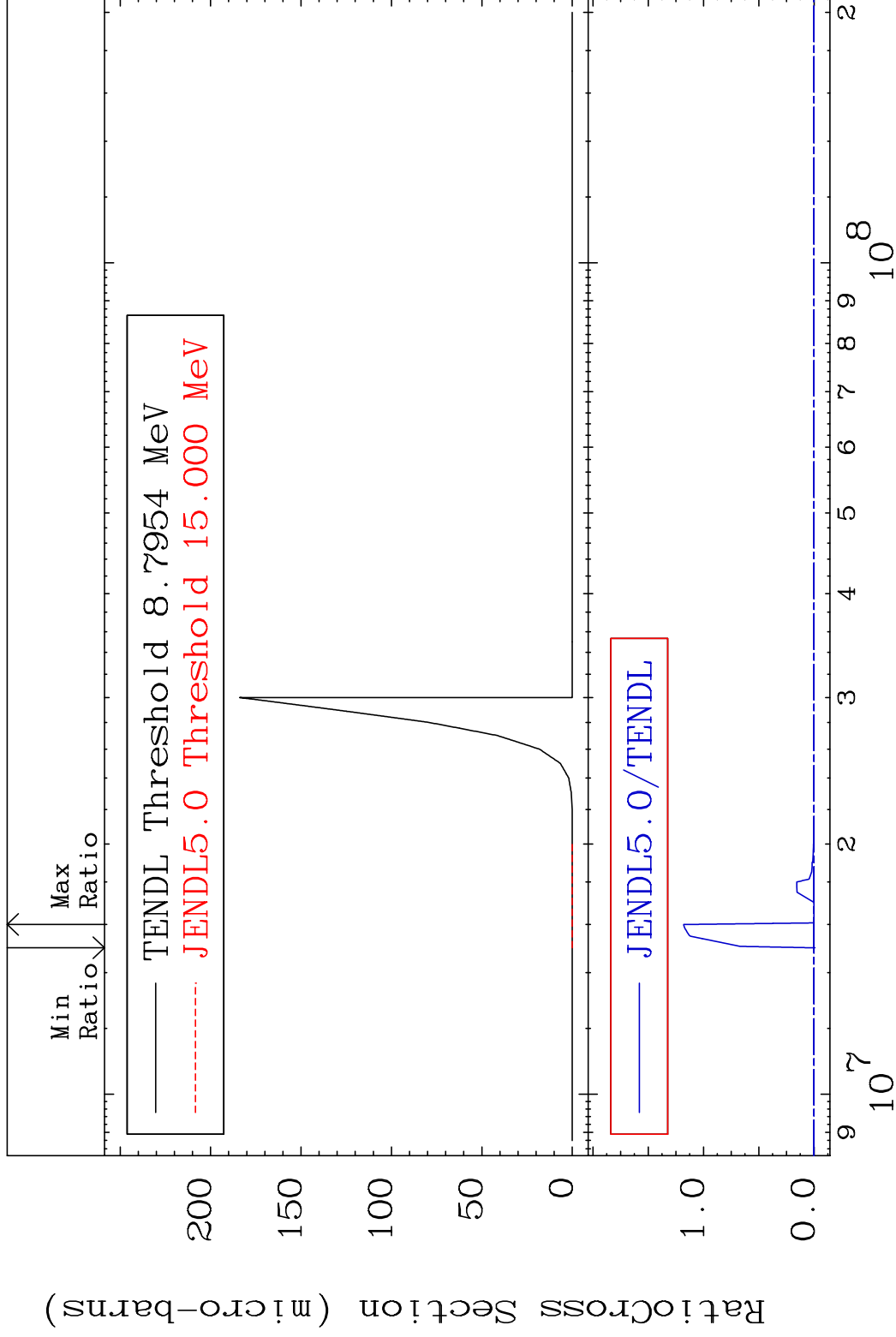
58-Ce-143

MAT 5846

(n, He-3)

58-Ce-143

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

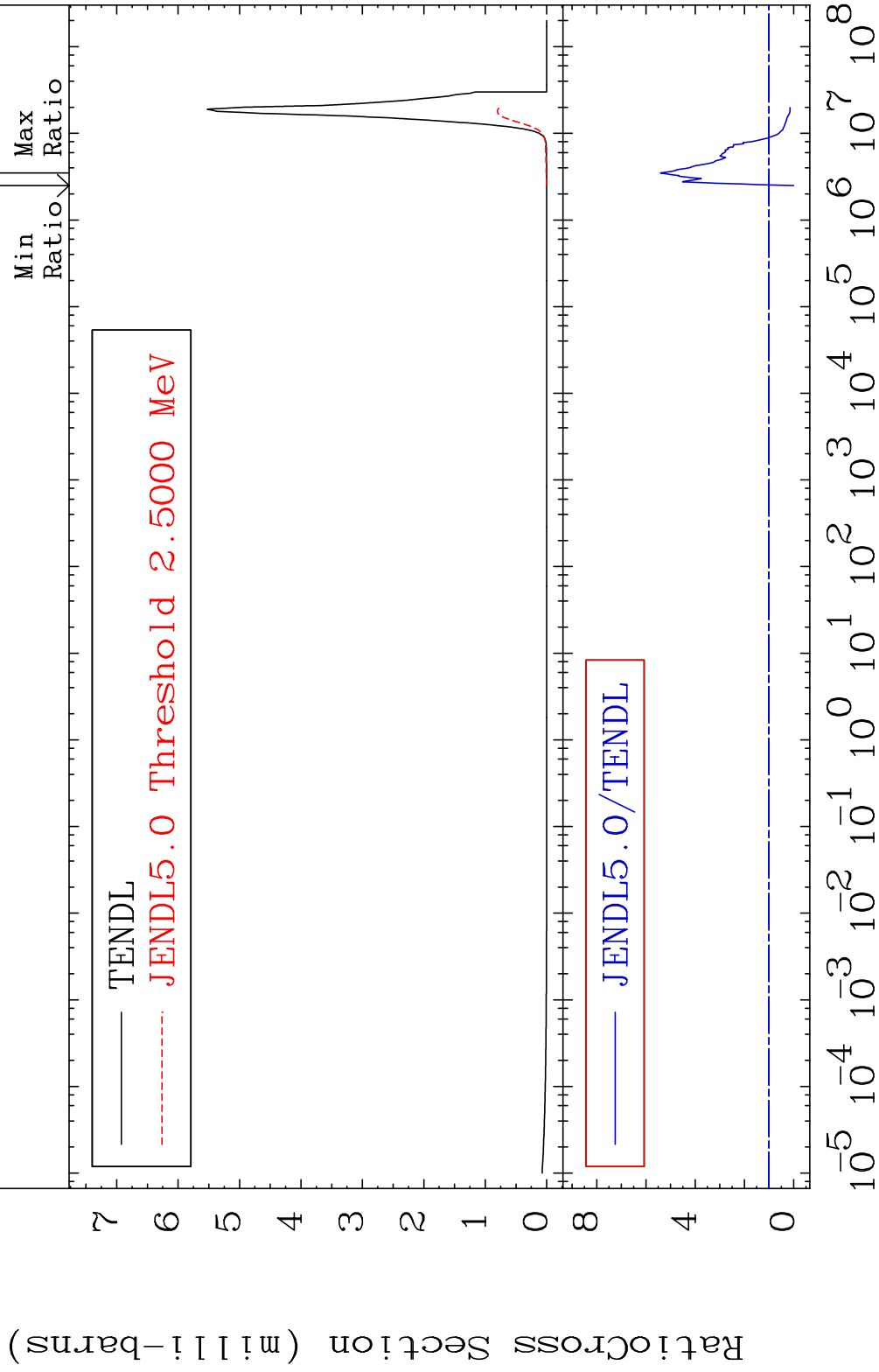
58-Ce-143

MAT 5846

(n, α)

58-Ce-143

Cross Section -100.0 To 441.0 %



34

Incident Energy (eV)

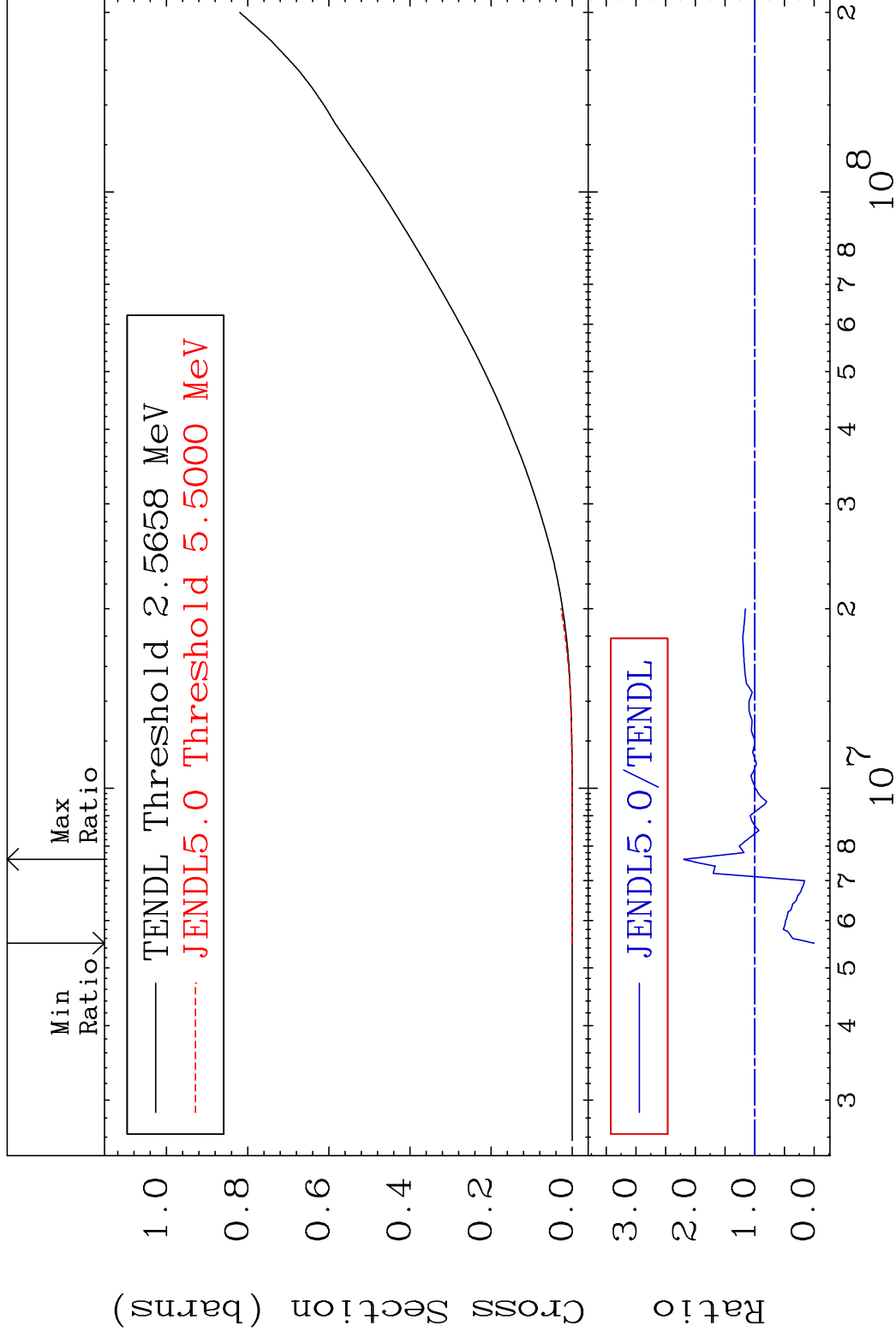
58-Ce-143

MAT 5846

Hydrogen Production

58-Ce-143

Cross Section -100.0 To 119.7 %



35

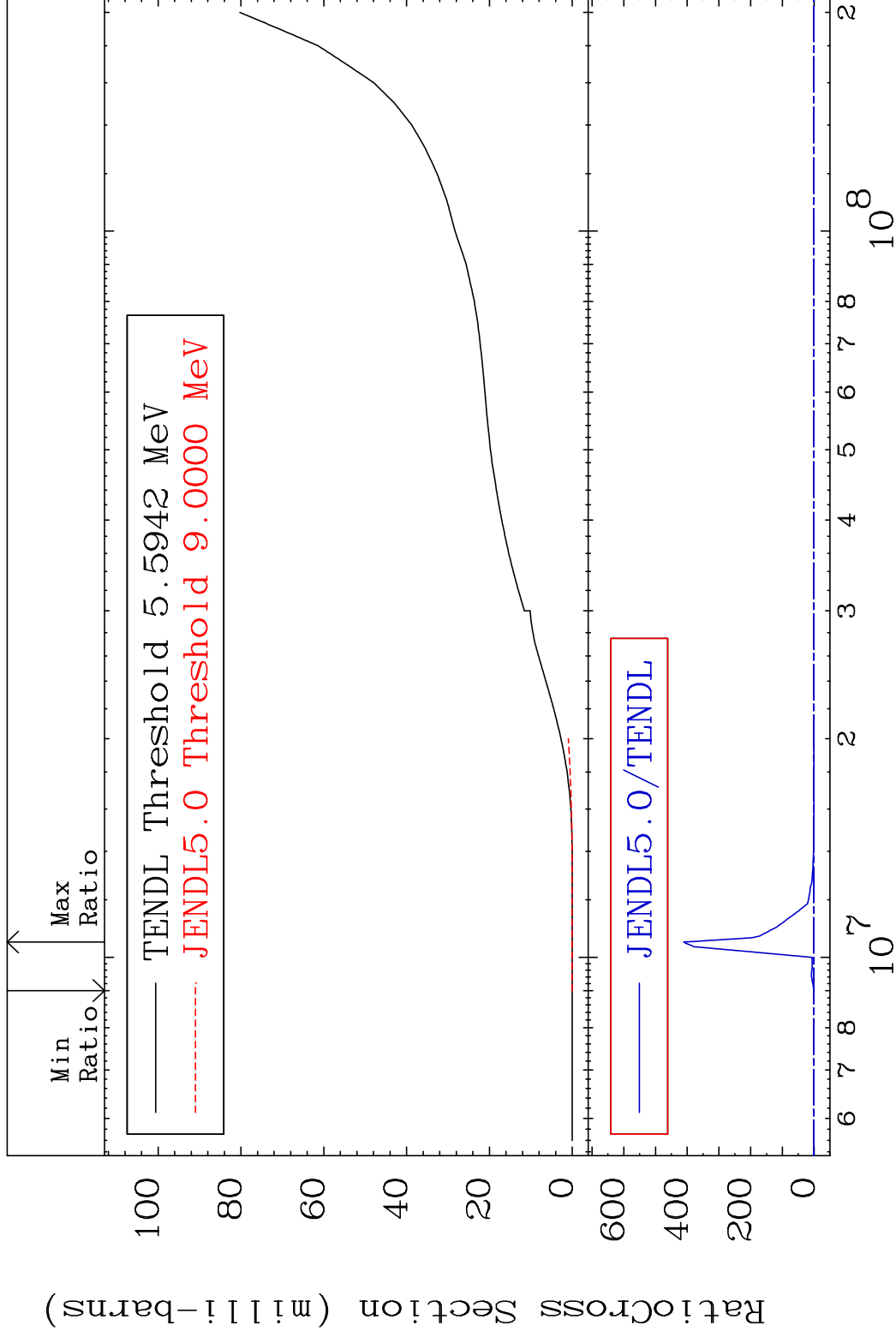
Incident Energy (eV)

58-Ce-143

MAT 5846

Tritium Production 58-Ce-143

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

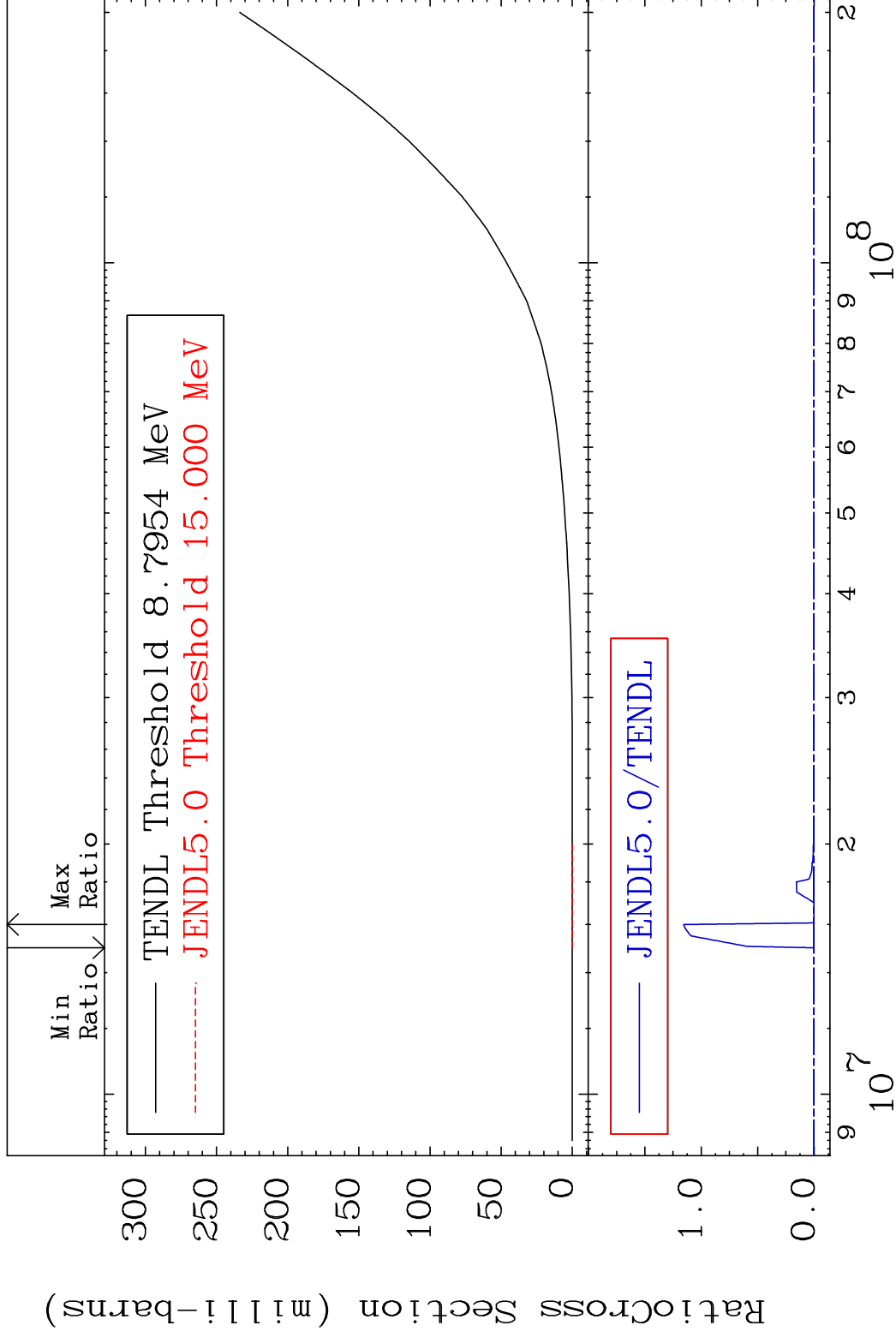
58-Ce-143

MAT 5846

He-3 Production

58-Ce-143

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

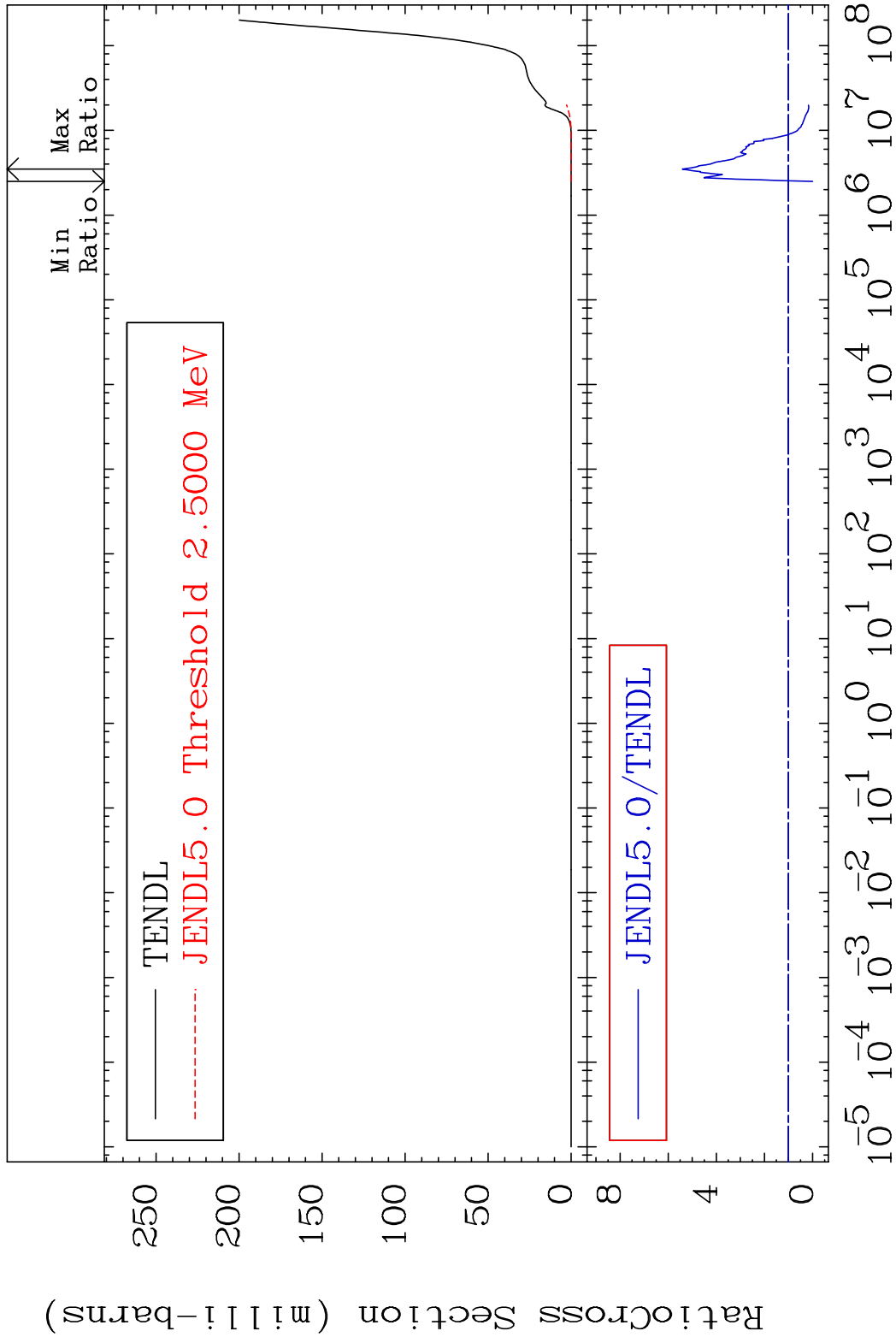
58-Ce-143

MAT 5846

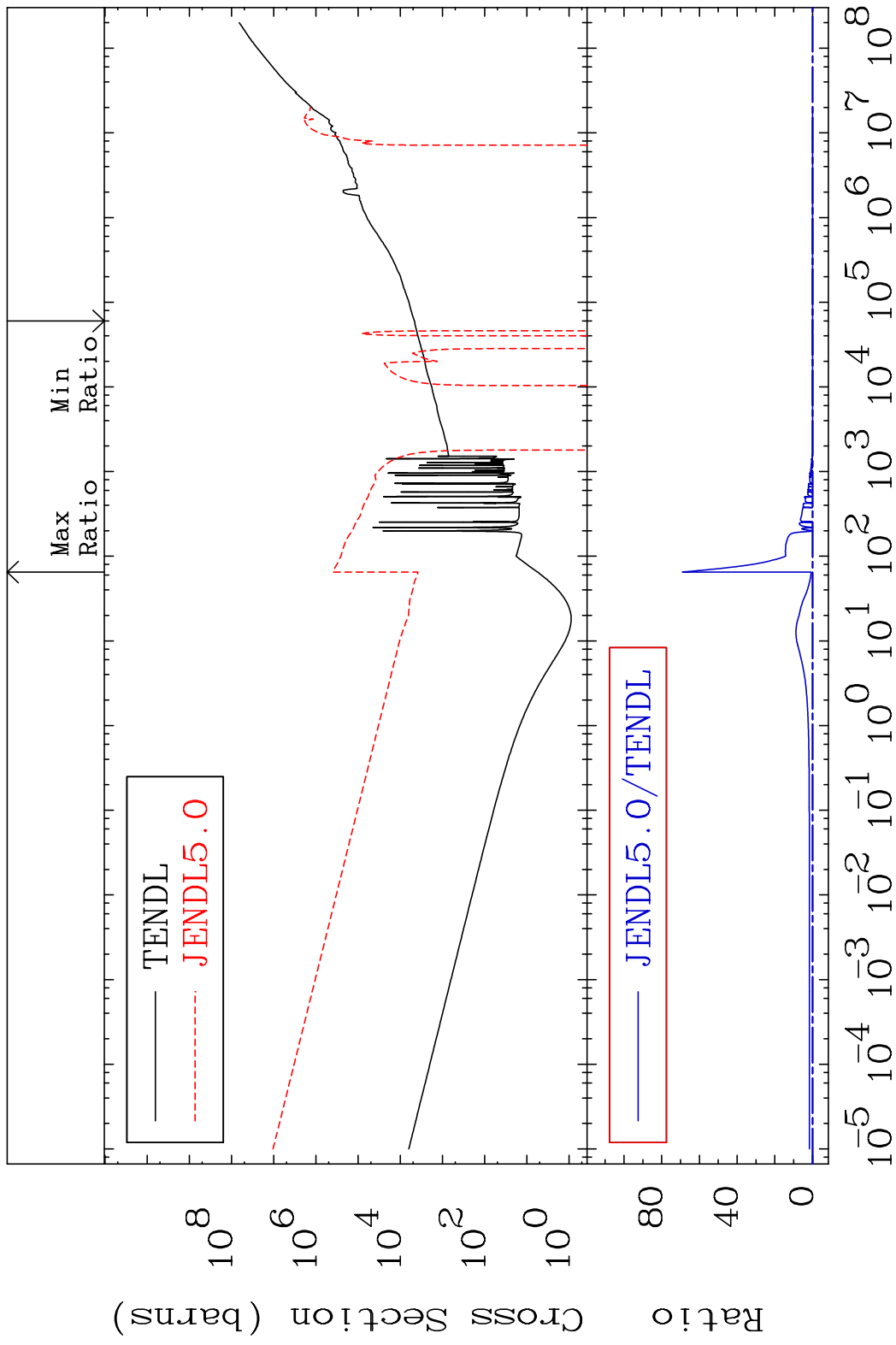
He-4 Production

58-Ce-143

Cross Section -100.0 To 441.0 %



MAT 5846 Kerma total (eV-barns) 58-Ce-143
 Cross Section -2502. To 9999. %



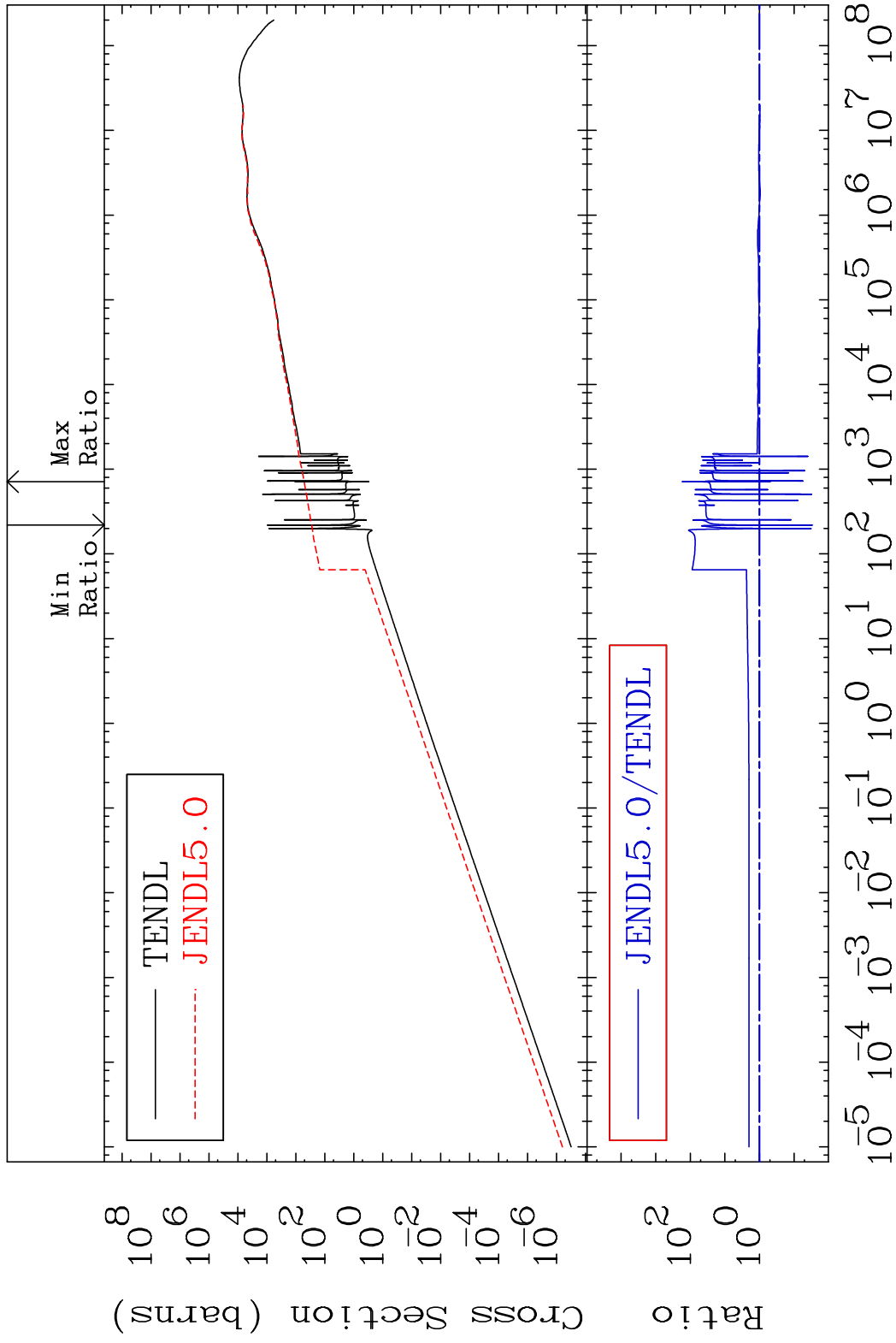
40 Incident Energy (eV) 58-Ce-143

MAT 5846

Kerma elastic

58-Ce-143

Cross Section -97.08 To 9999. %

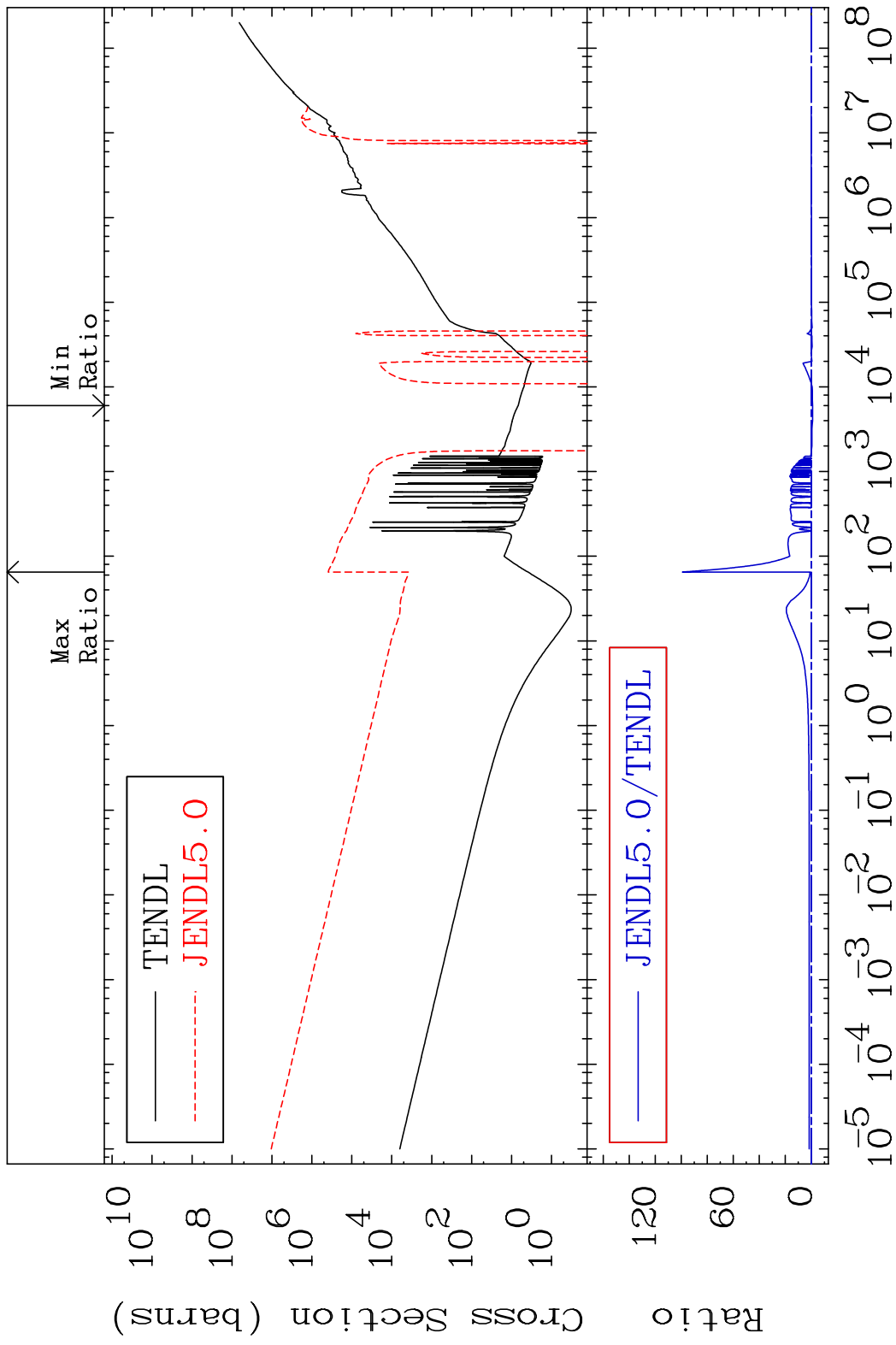


41

Incident Energy (eV)

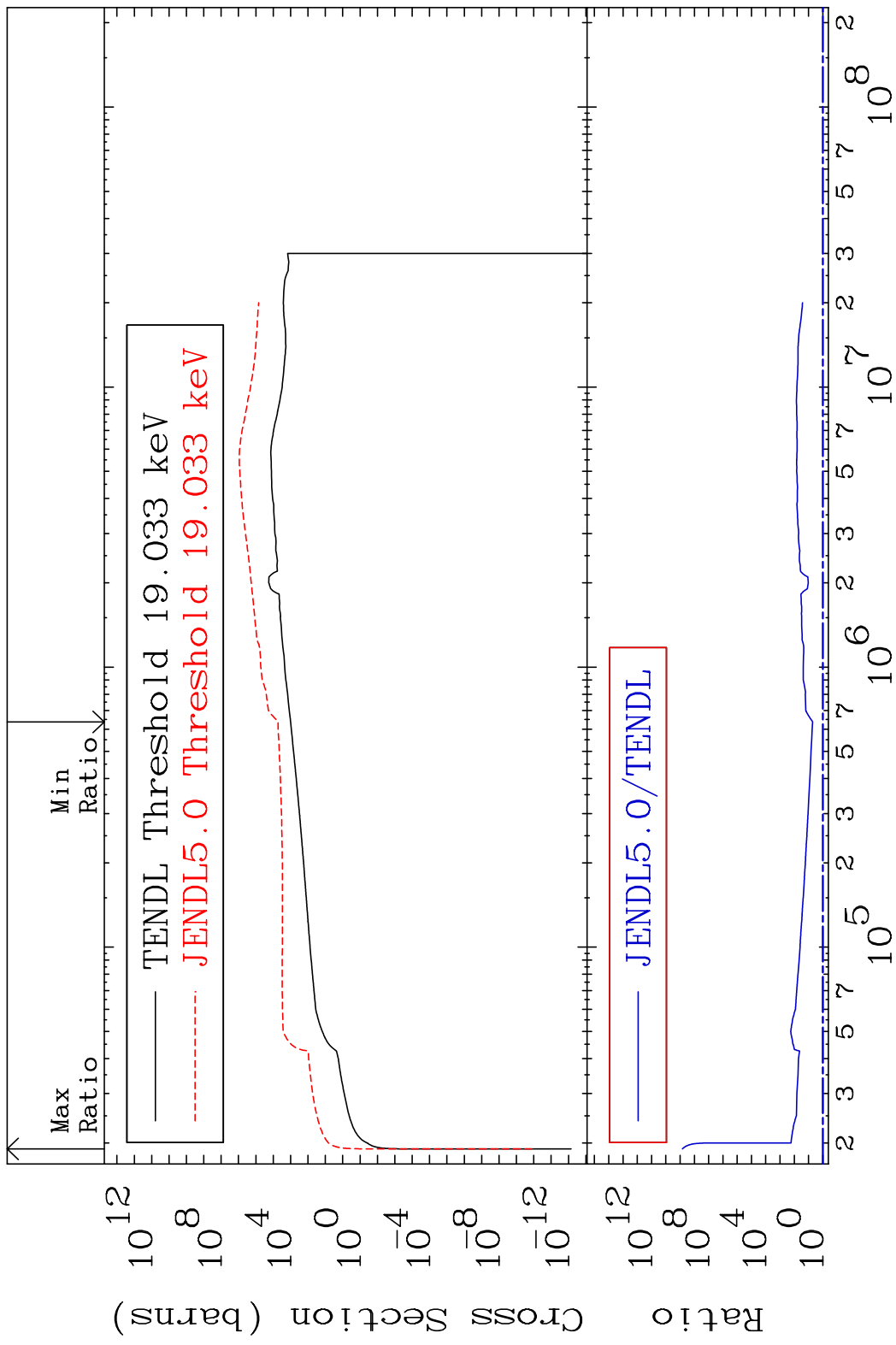
58-Ce-143

MAT 5846 Kerma non-elastic (all but mt2) 58-Ce-143
 Cross Section -9999. To 9999. %

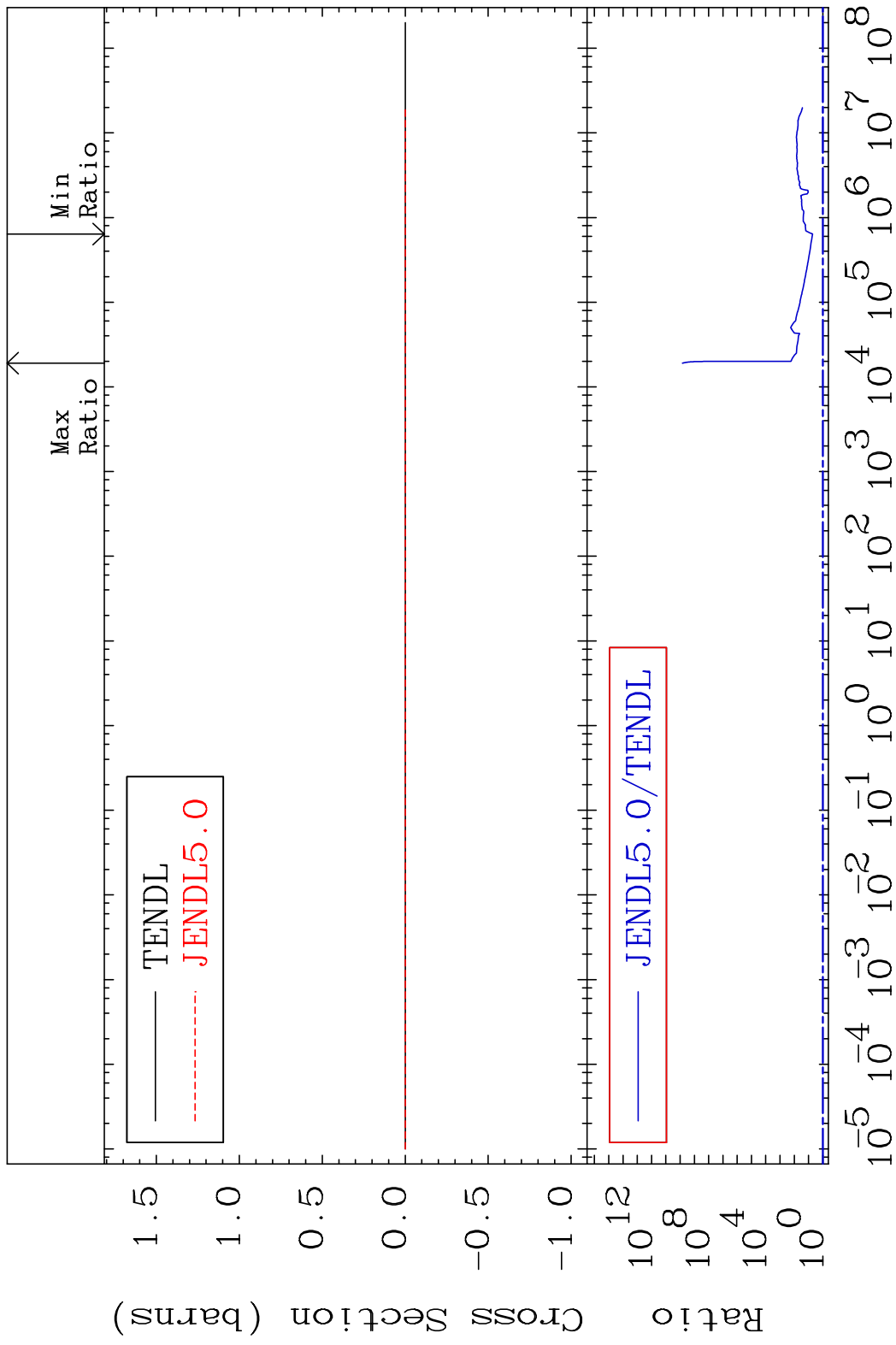


42 Incident Energy (eV) 58-Ce-143

MAT 5846 Kerma inelastic (mt51-91) 58-Ce-143
 Cross Section 424.5 To 9999. %

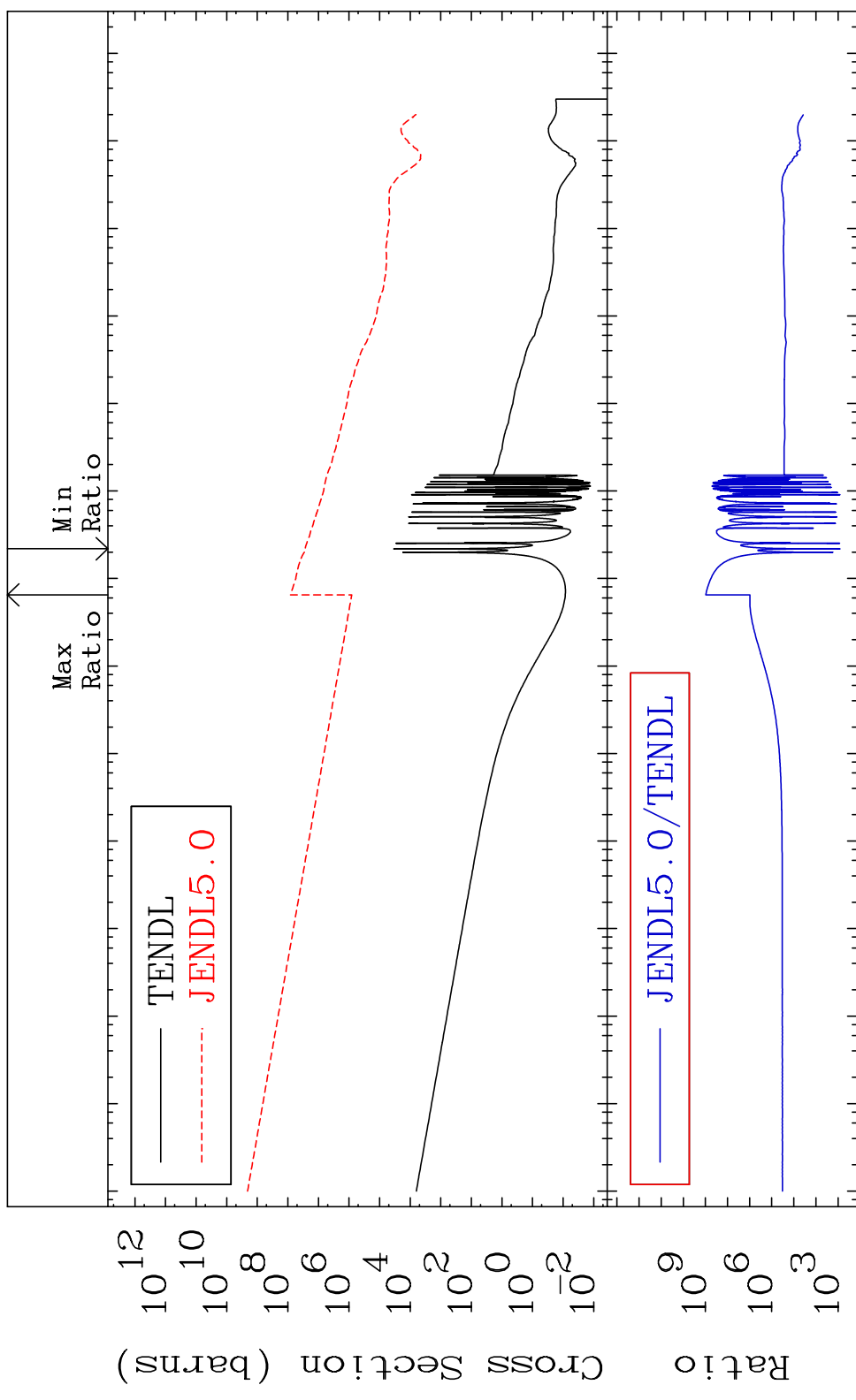


MAT 5846 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-143
 Cross Section 424.5 To 9999. %



MAT 5846

Kerma capture (mt102) 58-Ce-143
Cross Section 9999. To 9999. %

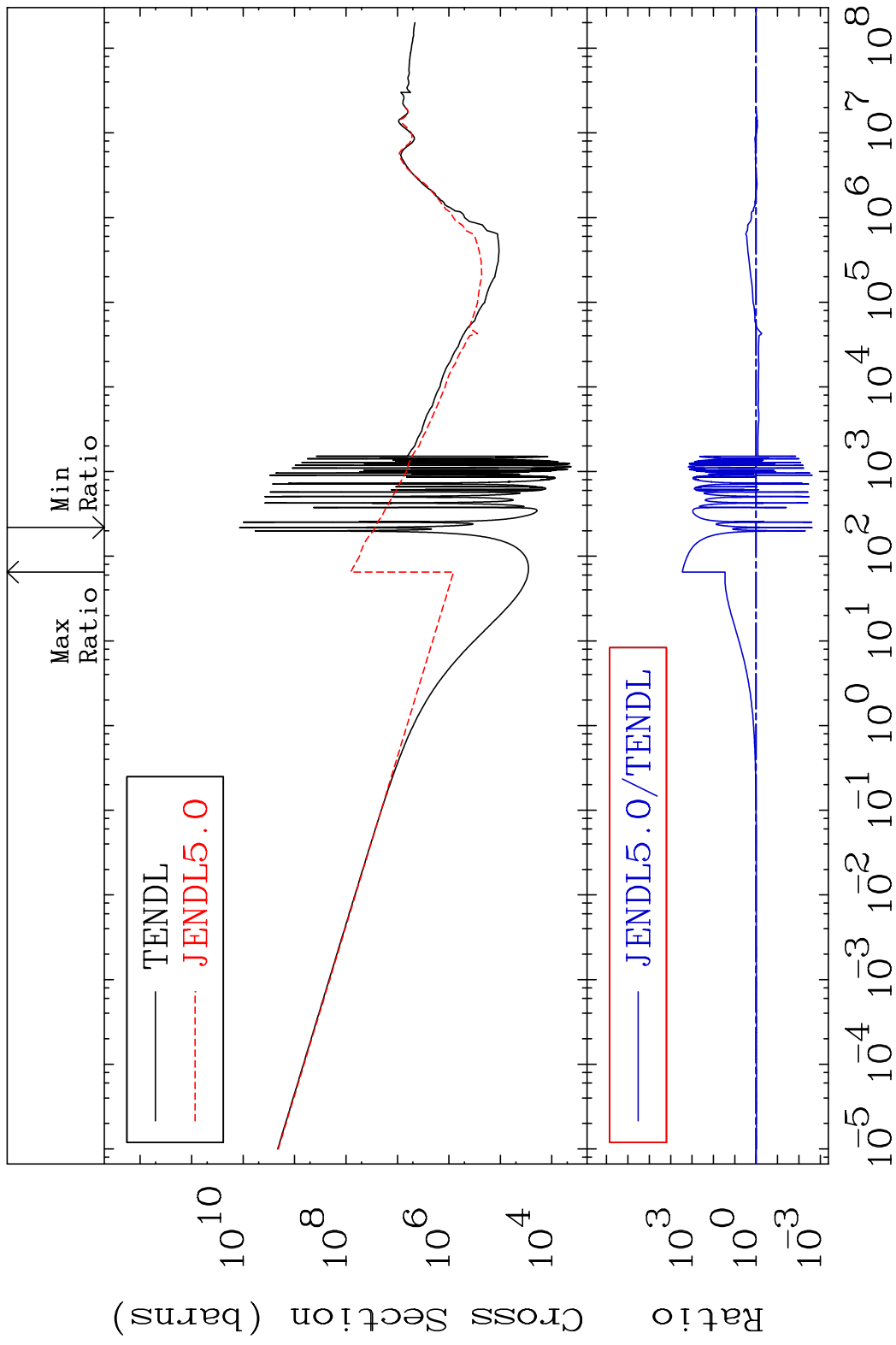


45

Incident Energy (eV)

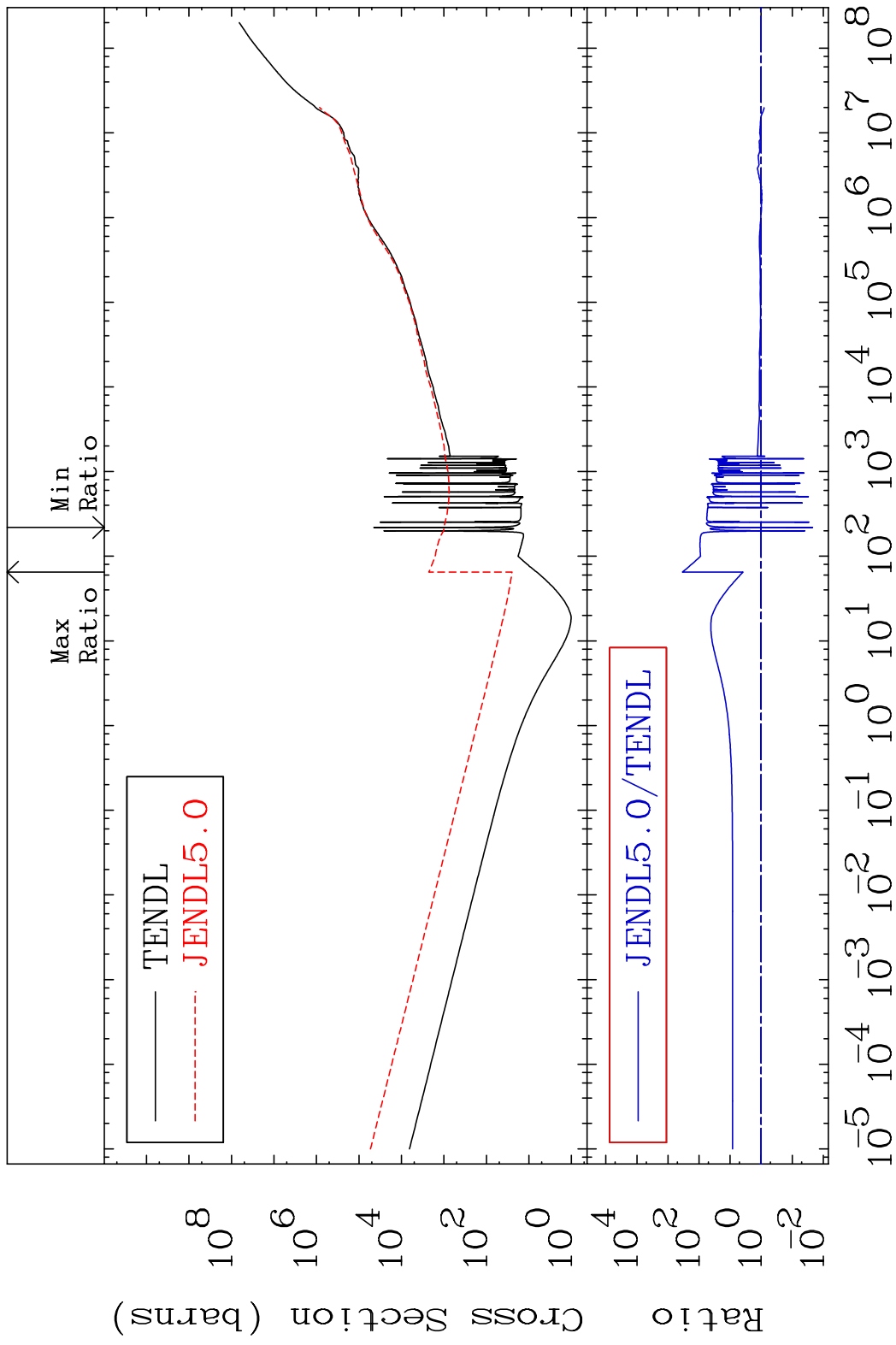
58-Ce-143

MAT 5846 Total photon (eV-barns) 58-Ce-143
 Cross Section -99.777 To 9999. %

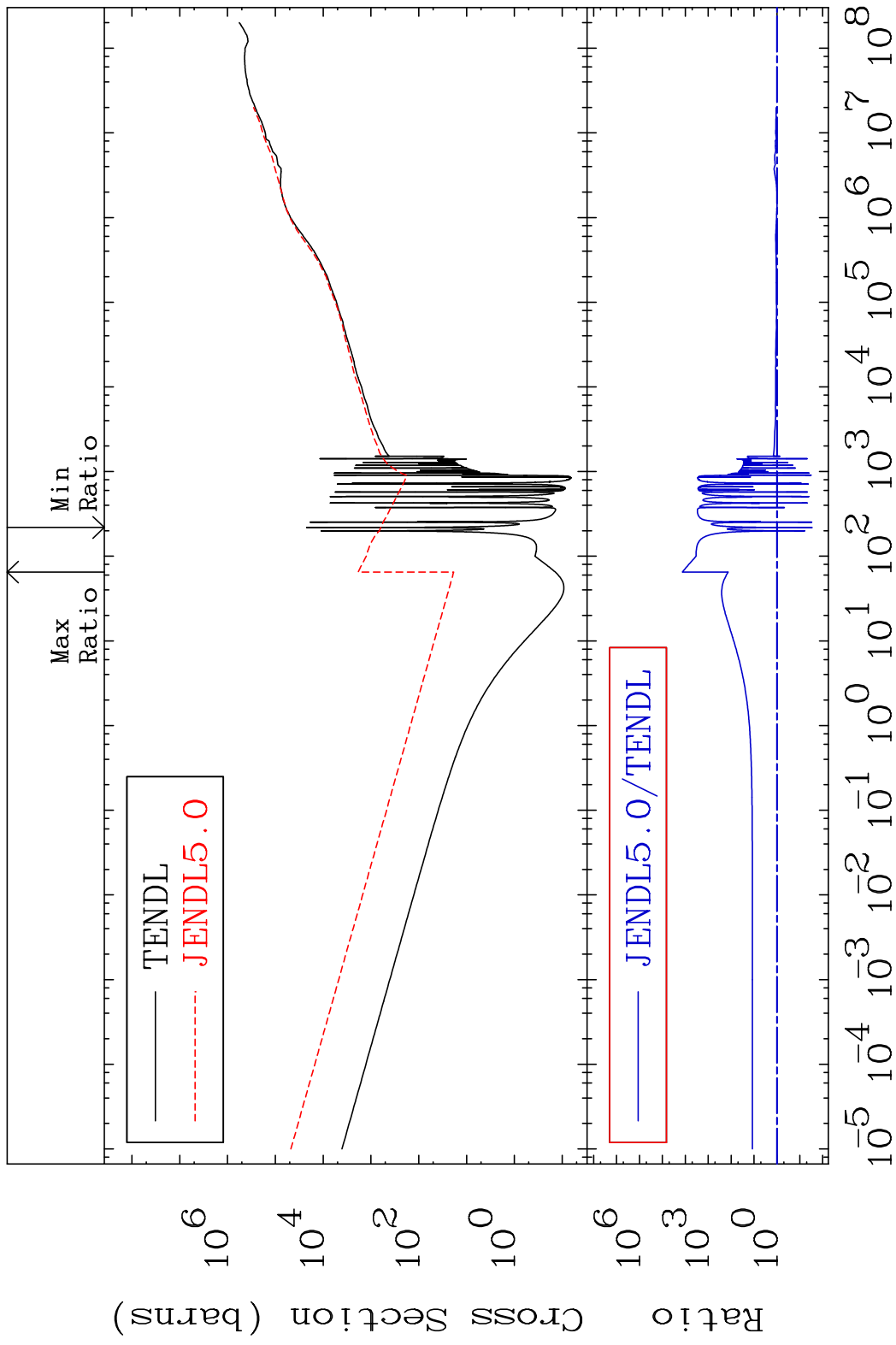


46 Incident Energy (eV) 58-Ce-143

MAT 5846 Total kinematic kerma (high limit) 58-Ce-143
 Cross Section -97.79 To 9999. %



MAT 5846 Dpa total (eV-barns) 58-Ce-143
Cross Section -97.22 To 9999. %



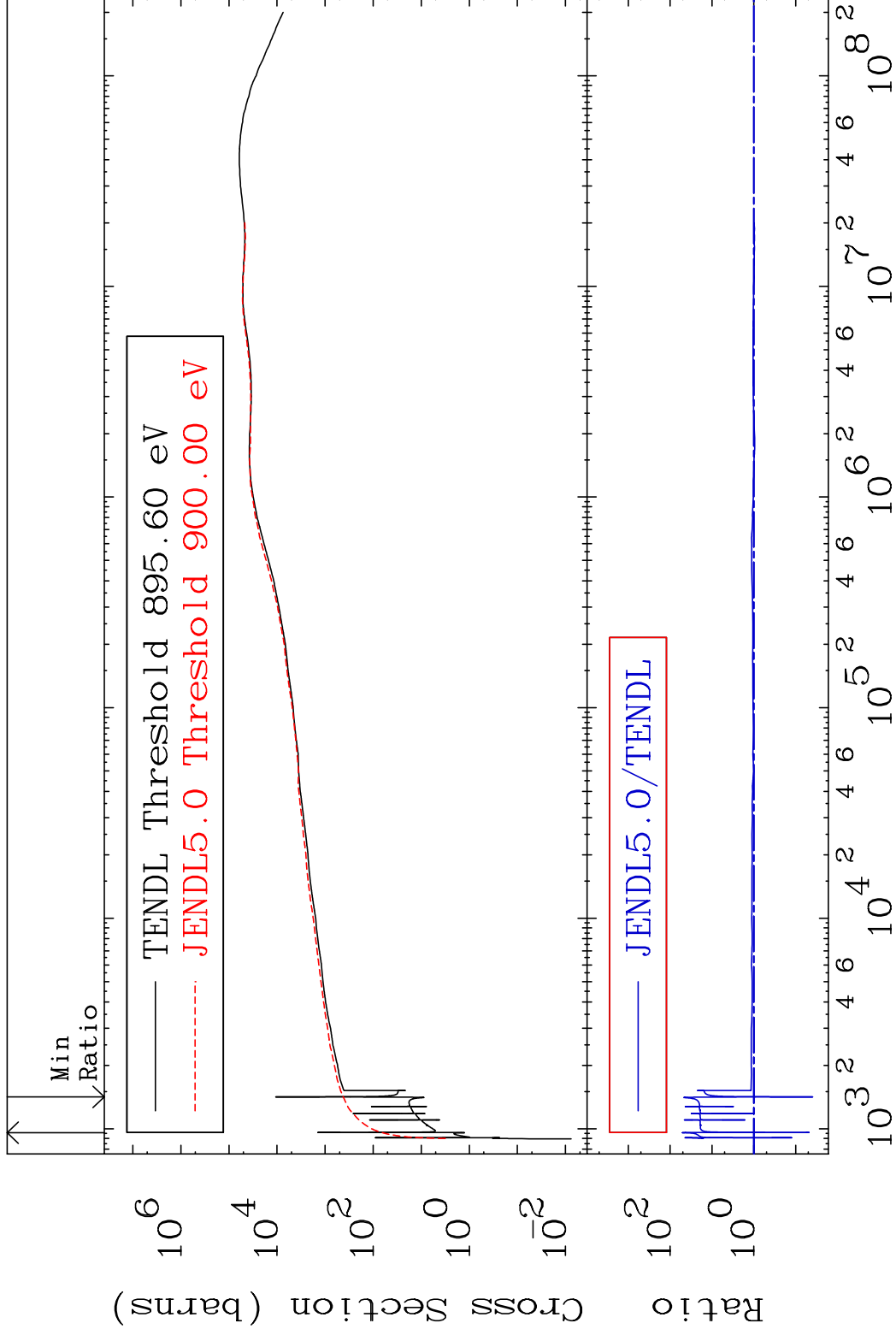
48 Incident Energy (eV) 58-Ce-143

MAT 5846

Dpa elastic (mt2)

58-Ce-143

Cross Section -96.04 To 5018. %

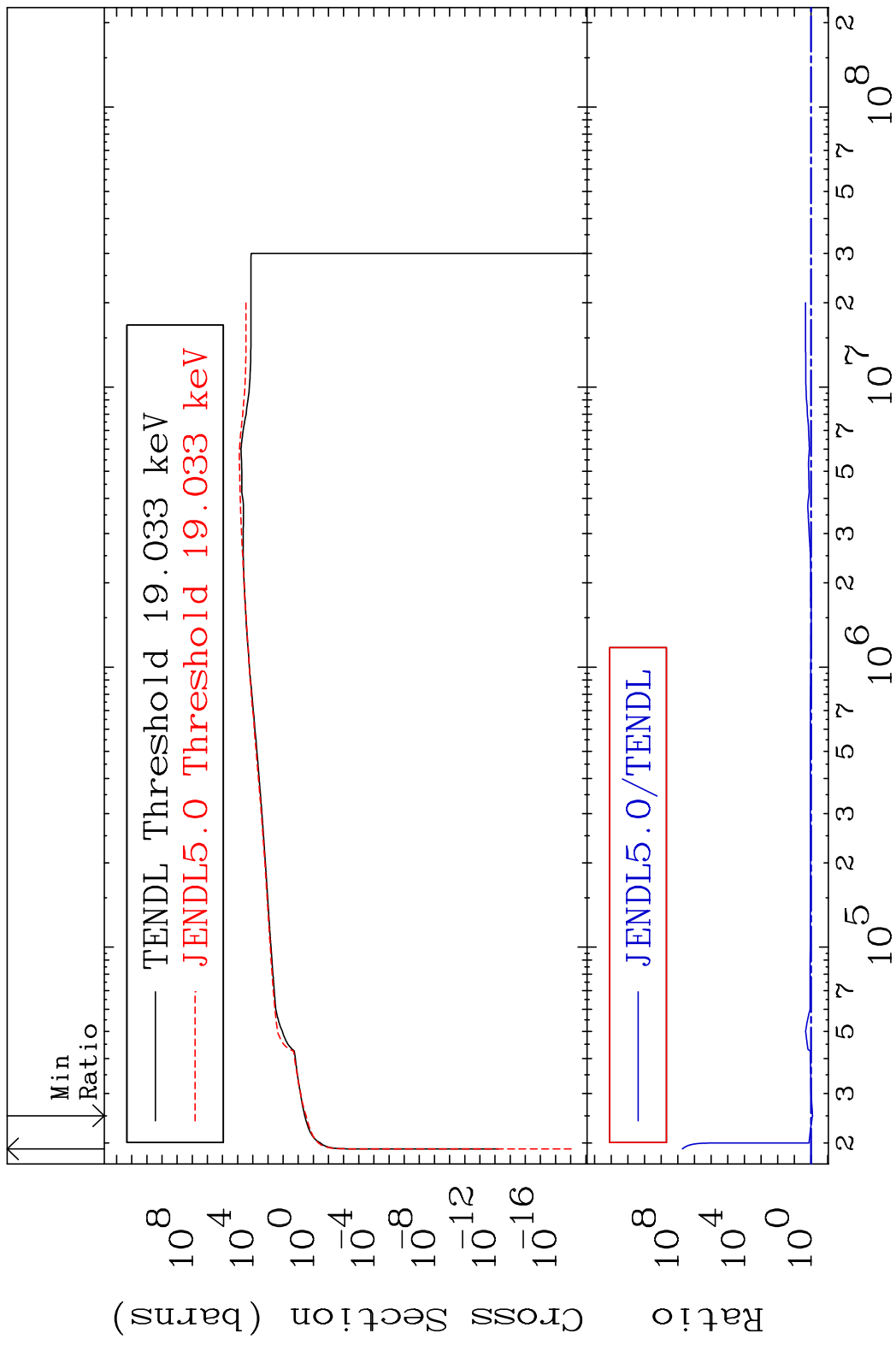


49

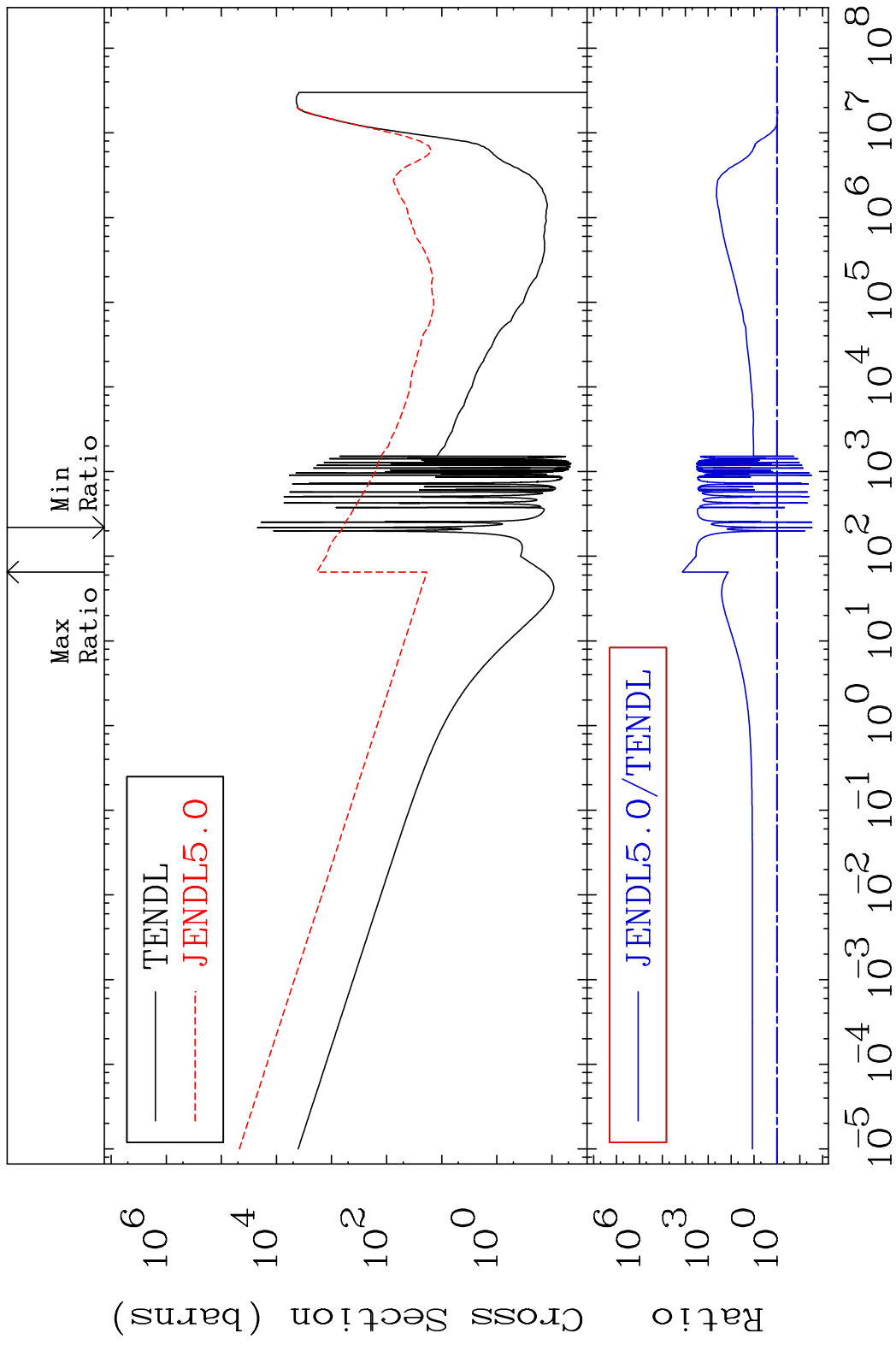
Incident Energy (eV)

58-Ce-143

MAT 5846 Dpa inelastic (mt51-91) 58-Ce-143
 Cross Section -18.95 To 9999. %



MAT 5846 Dpa disappearance (mt102 -120) 58-Ce-143
 Cross Section -97.22 To 9999. %

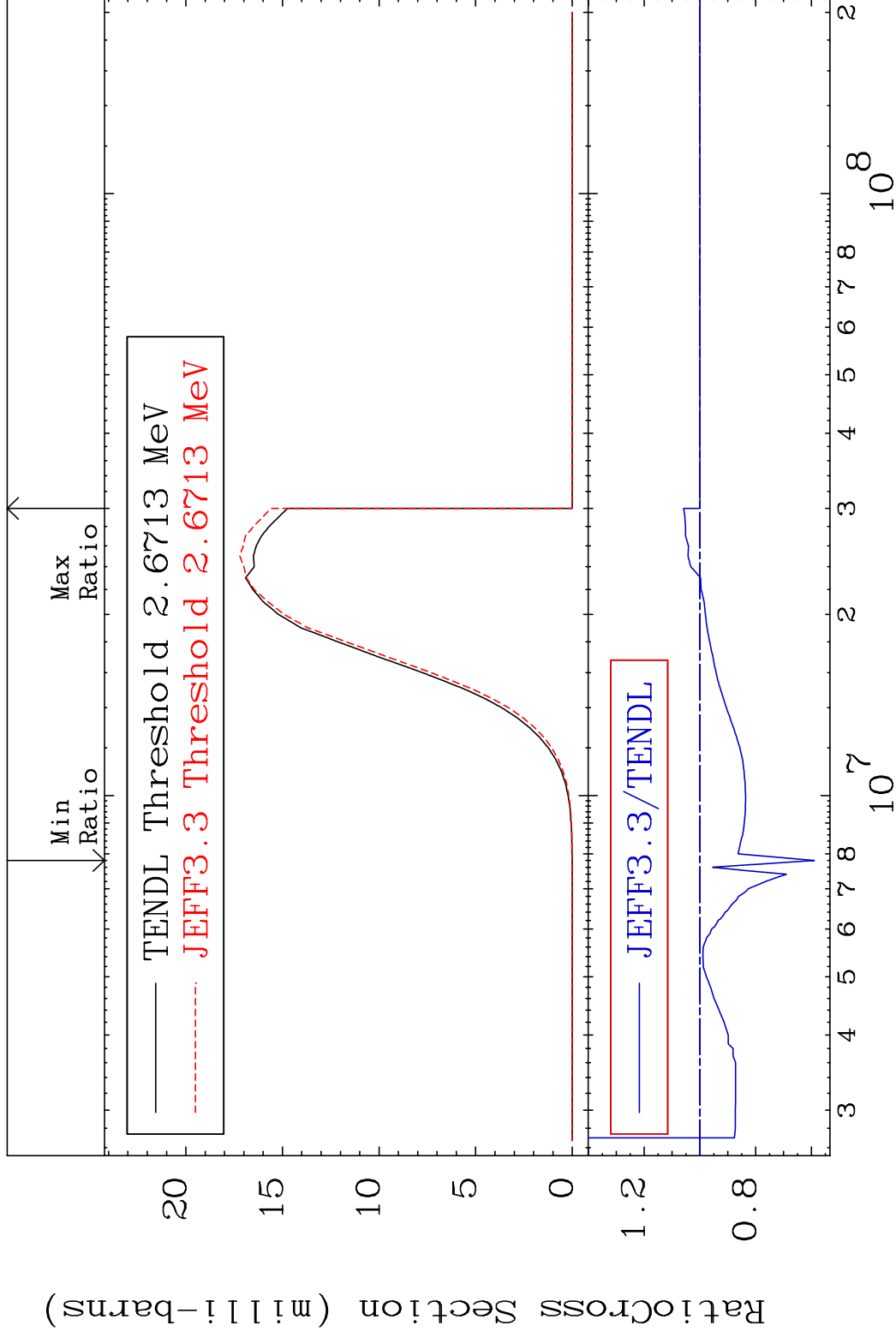


MAT 5846

(n, p)

58-Ce-143

Cross Section -40.98 To 5.836 %



52

Incident Energy (eV)

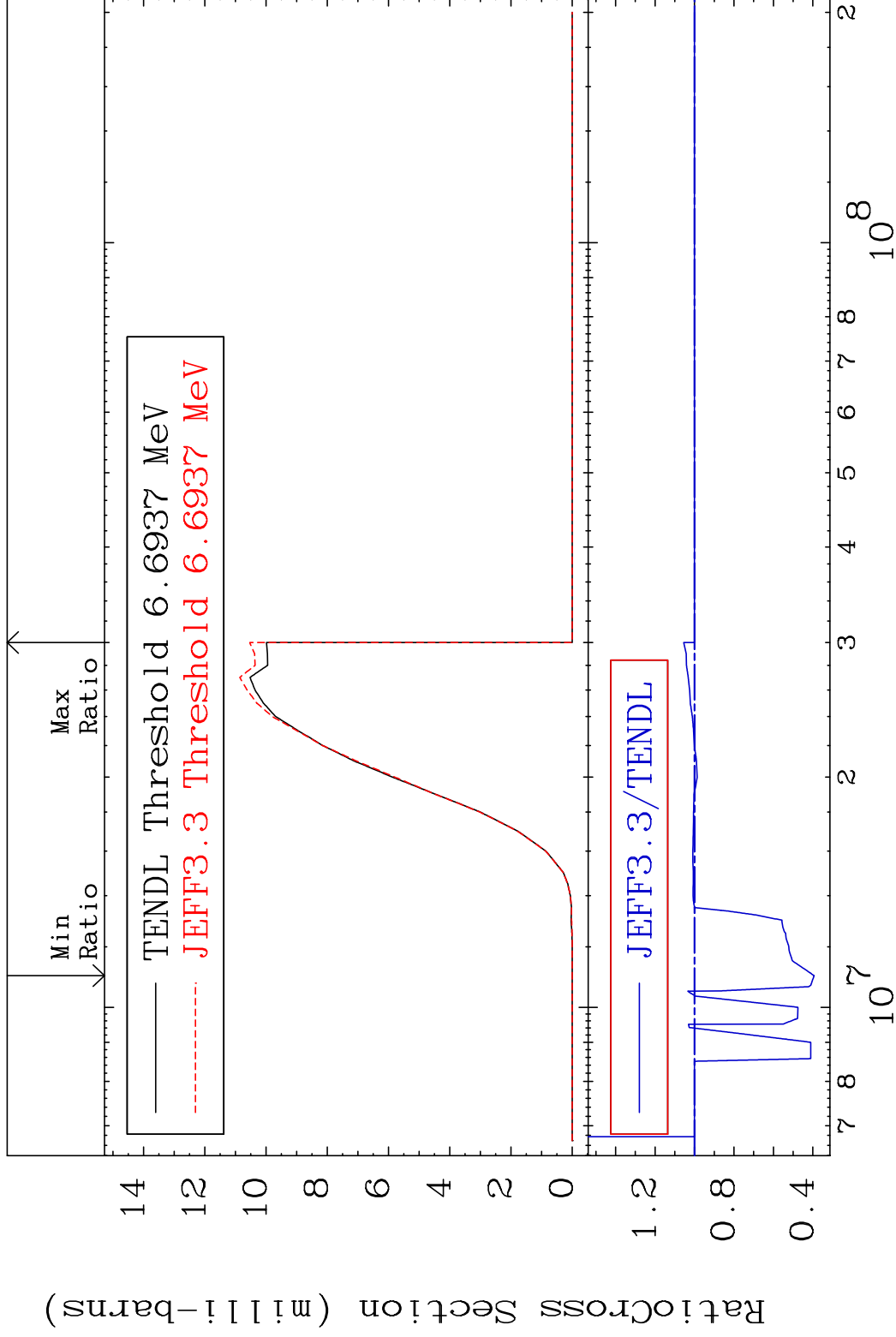
58-Ce-143

MAT 5846

(n, d)

58-Ce-143

Cross Section -60.65 To 5.499 %



53

Incident Energy (eV)

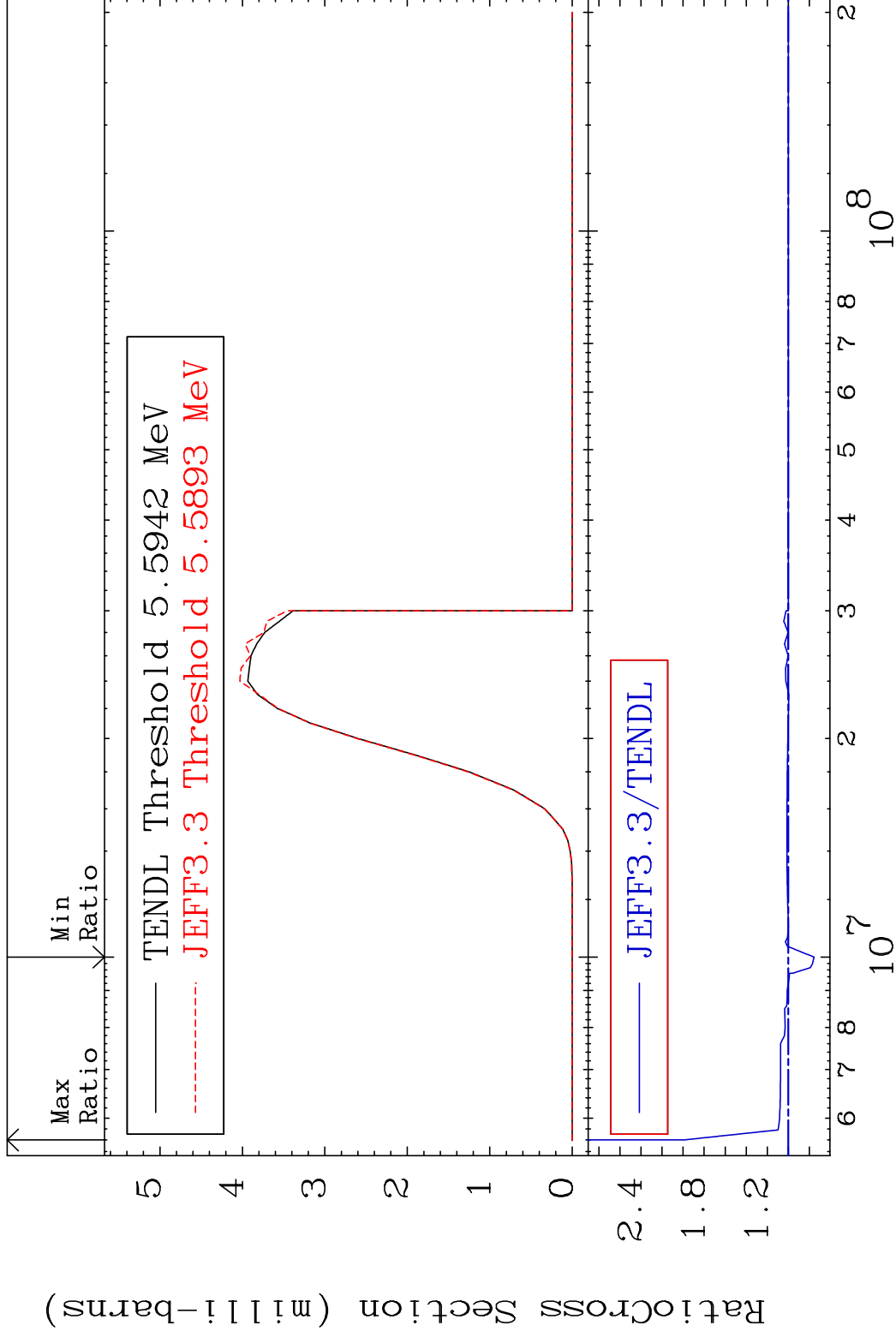
58-Ce-143

MAT 5846

(n, t)

58-Ce-143

Cross Section -24.46 To 99.44 %



54

Incident Energy (eV)

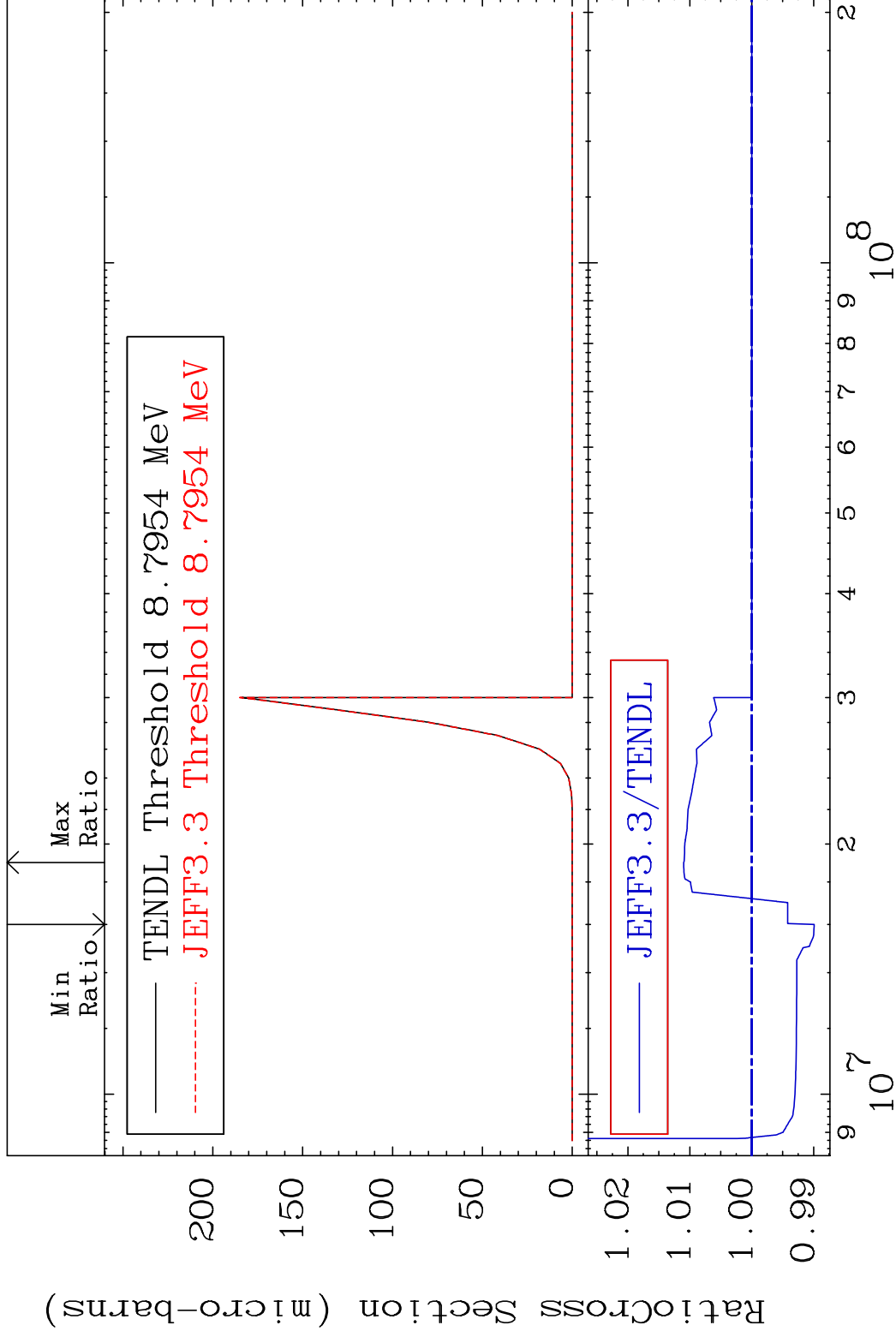
58-Ce-143

MAT 5846

(n, He-3)

58-Ce-143

Cross Section -1.008 To 1.099 %



55

Incident Energy (eV)

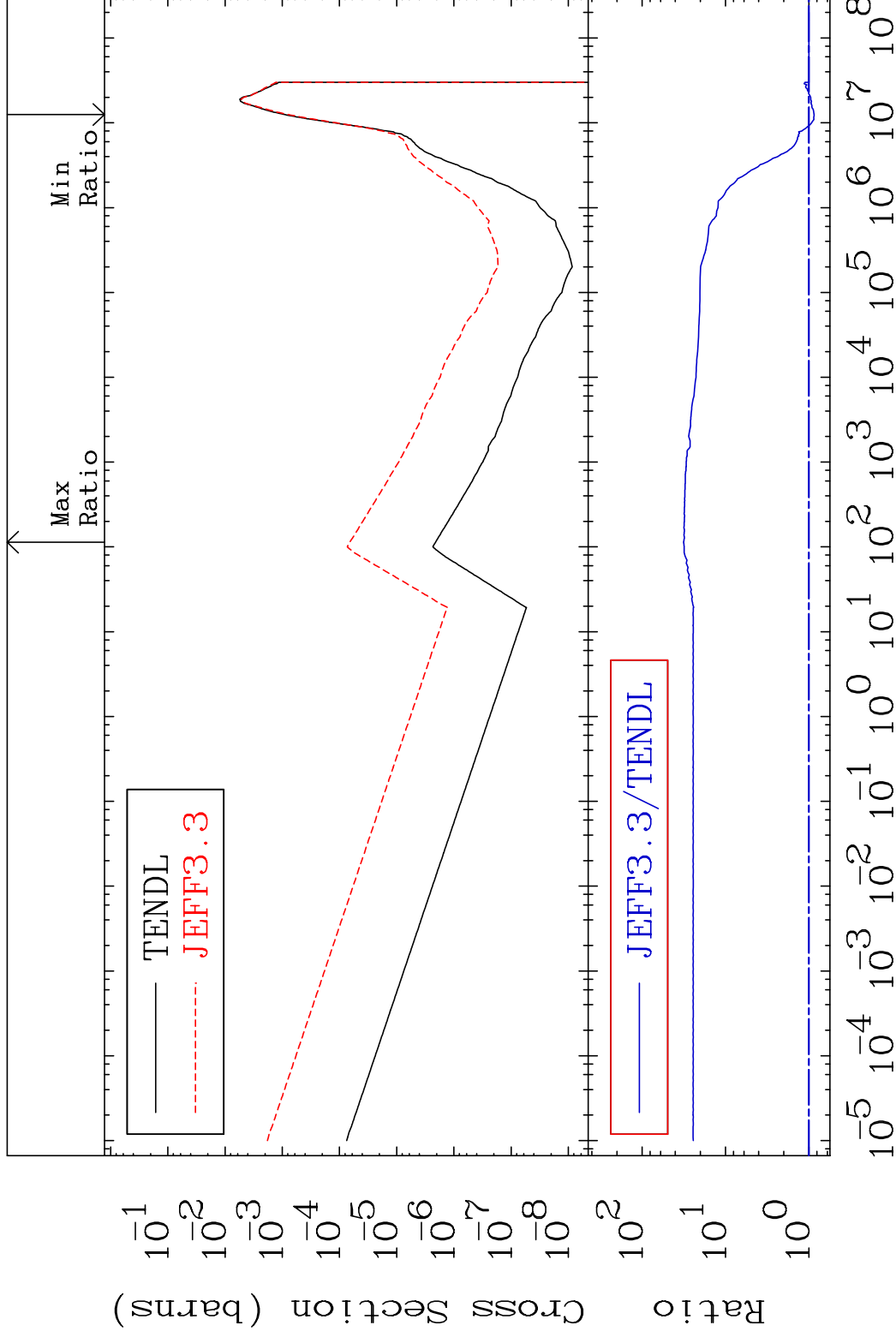
58-Ce-143

MAT 5846

(n, α)

58-Ce-143

Cross Section -13.49 To 3067. %



56

Incident Energy (eV)

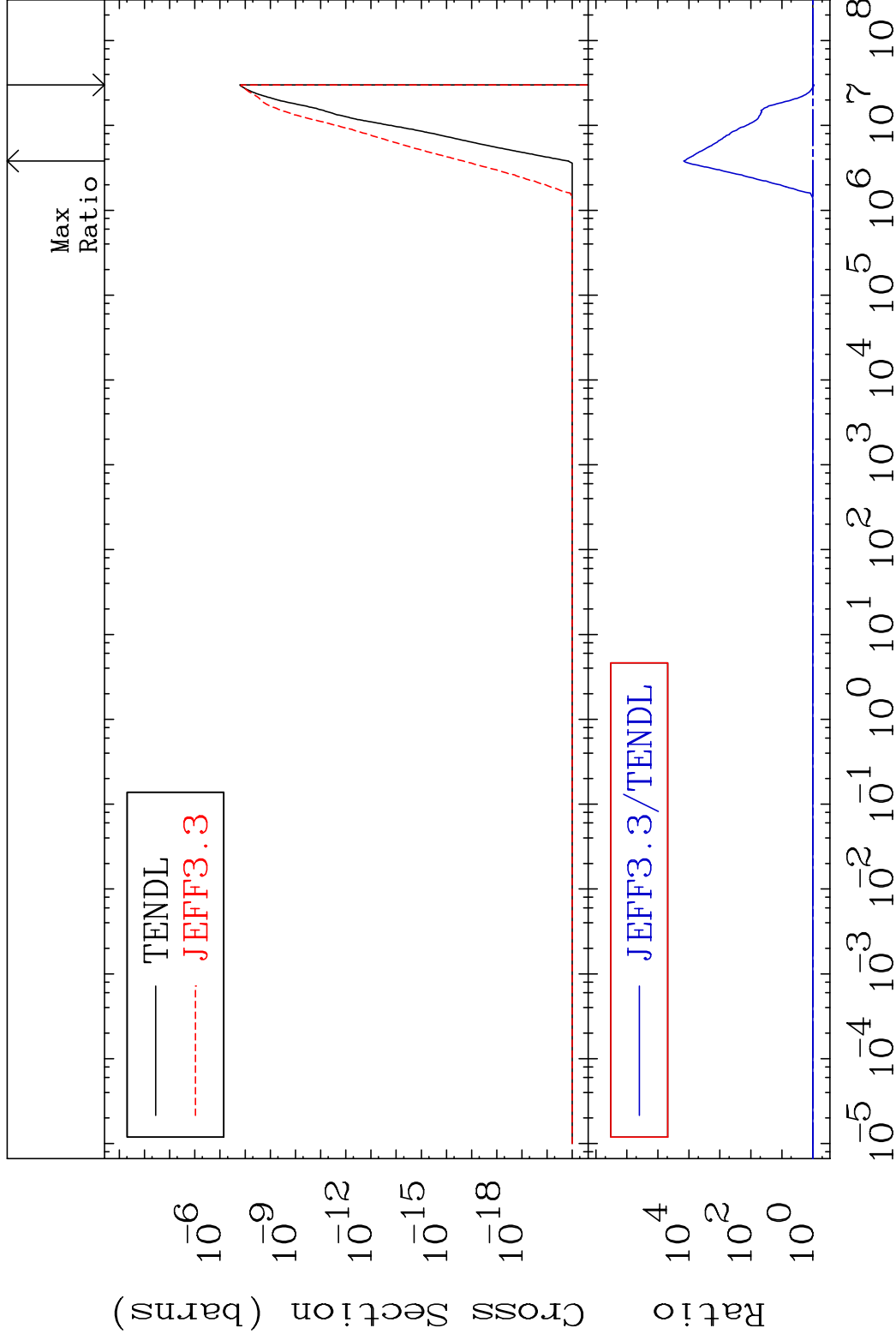
58-Ce-143

MAT 5846

(n, 2α)

58-Ce-143

Cross Section -8.996 To 9999. %



57

Incident Energy (eV)

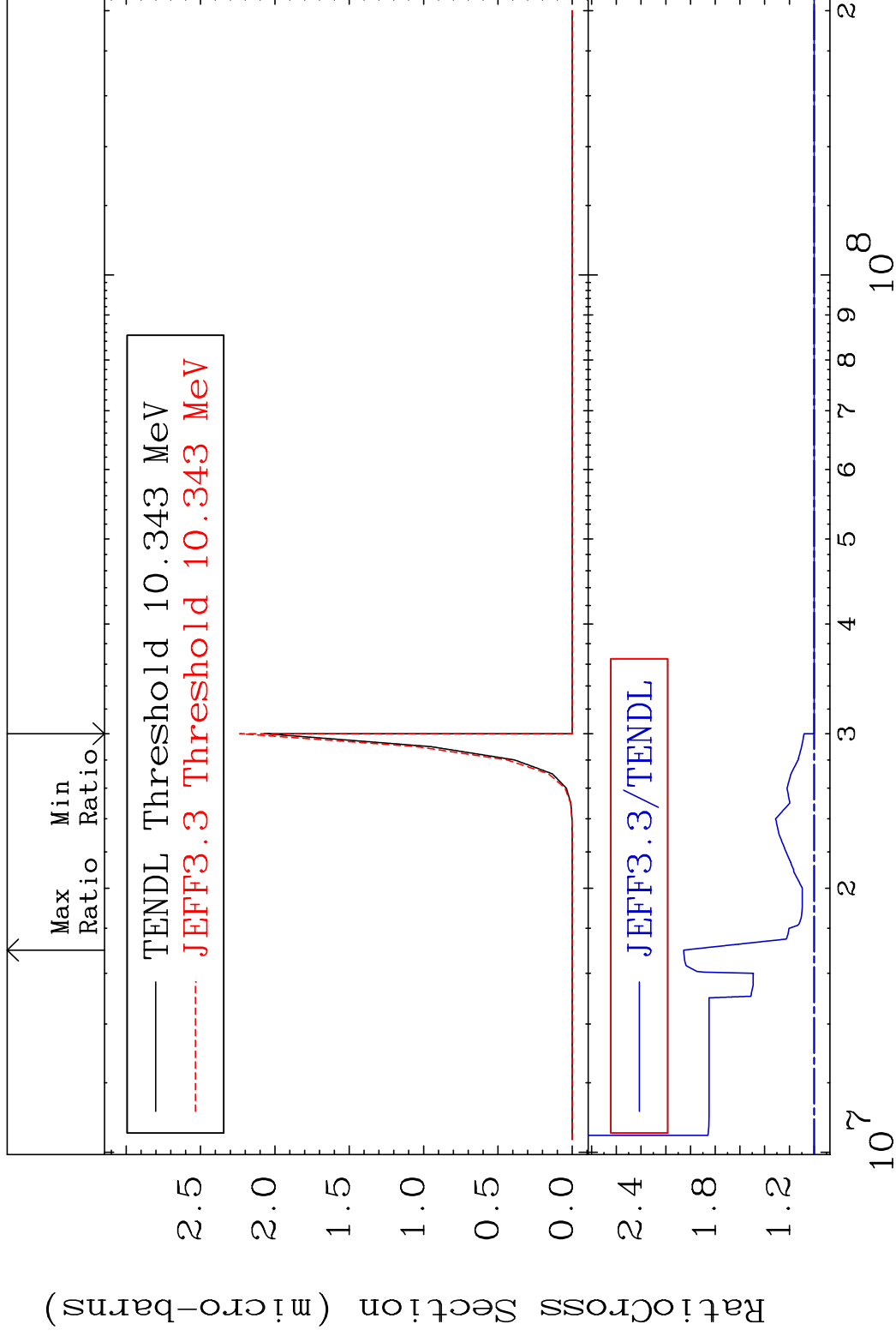
58-Ce-143

MAT 5846

(n,2p)

58-Ce-143

Cross Section 0.000 To 105.5 %



58

Incident Energy (eV)

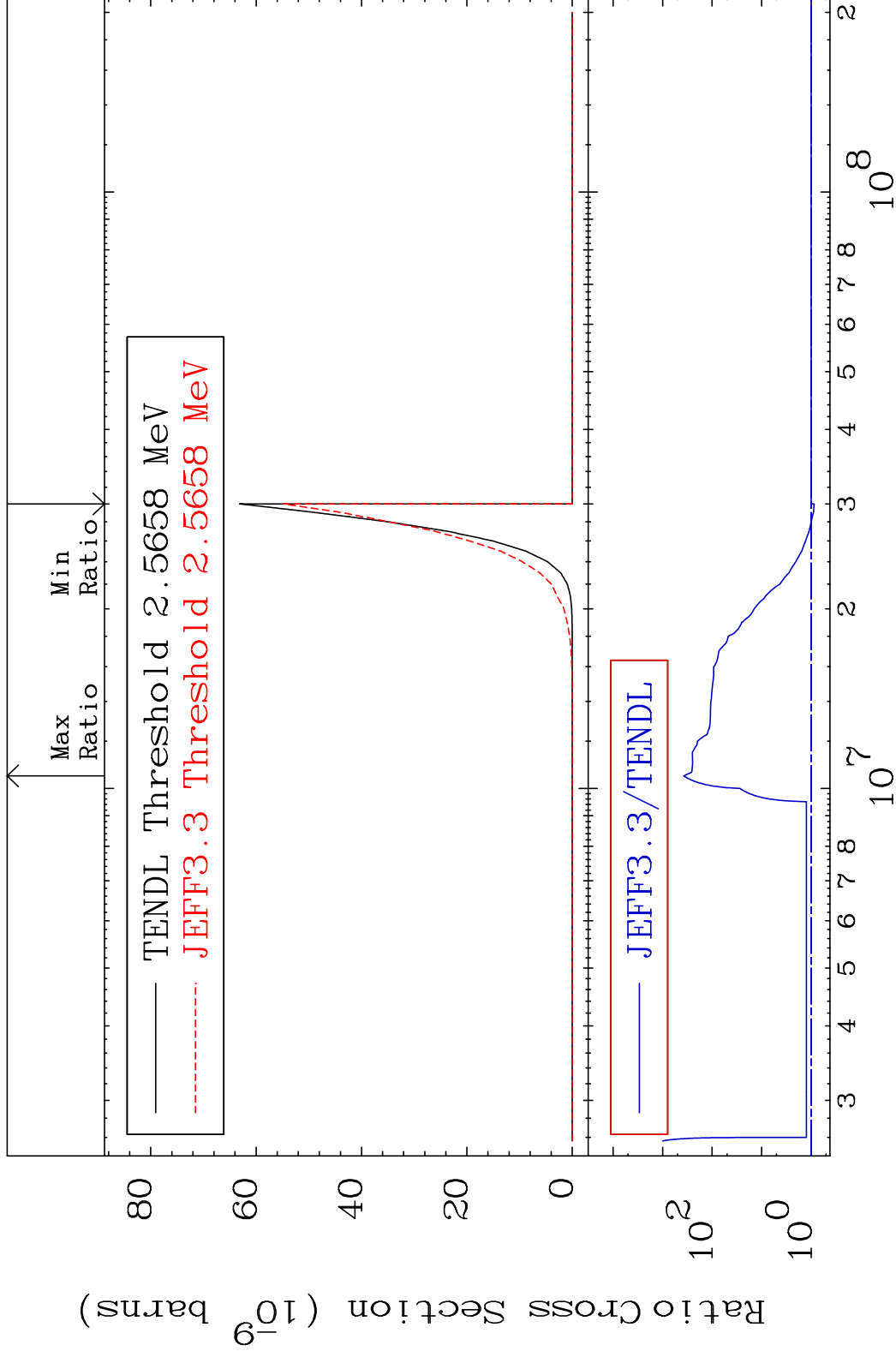
58-Ce-143

MAT 5846

(n,p) α

58-Ce-143

Cross Section -13.09 To 9999. %

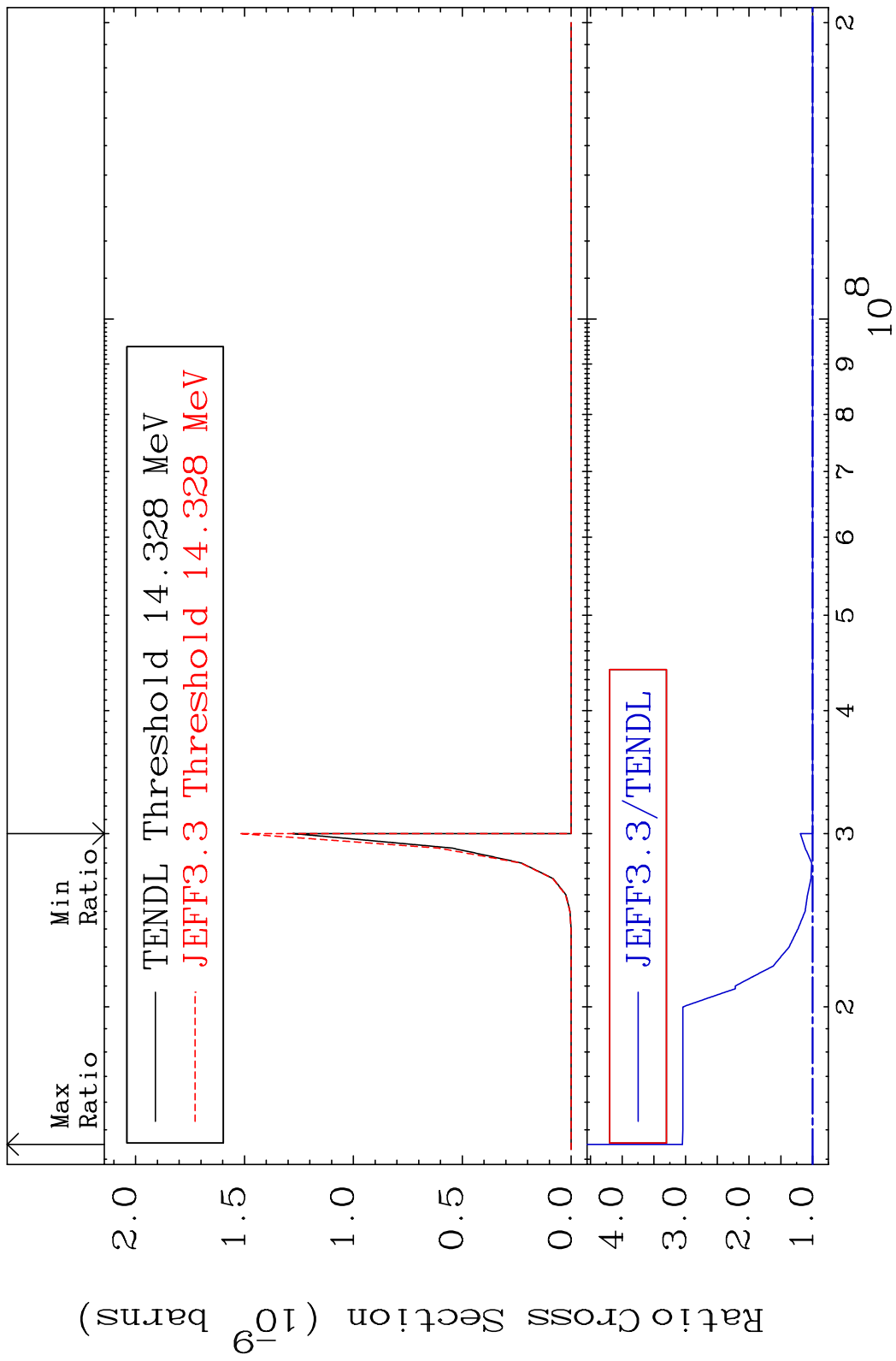


59

Incident Energy (eV)

58-Ce-143

MAT 5846 (n,p) d 58-Ce-143
 Cross Section 0.000 To 205.1 %

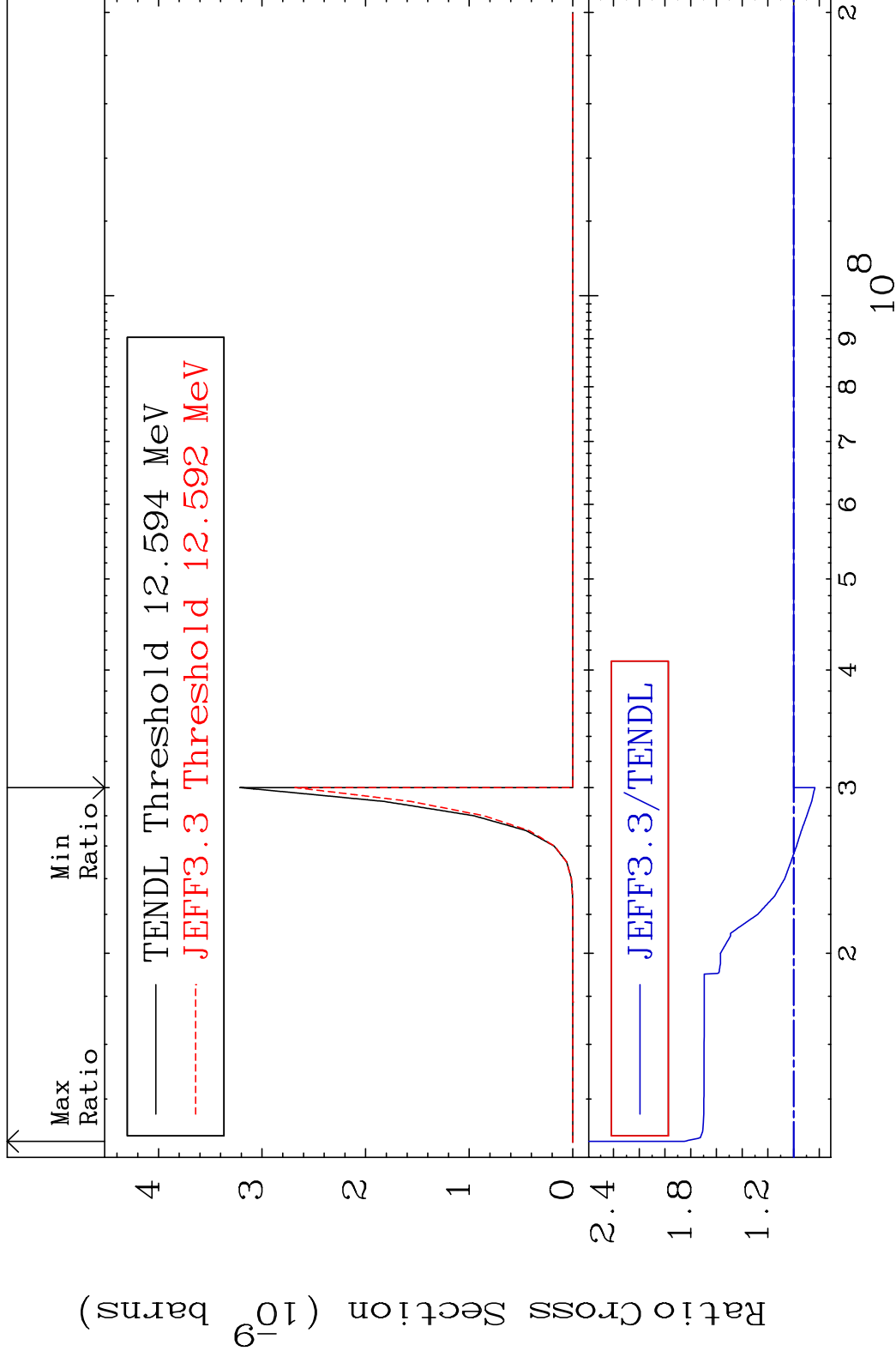


MAT 5846

(n,p) t

58-Ce-143

Cross Section -16.57 To 84.96 %



61

Incident Energy (eV)

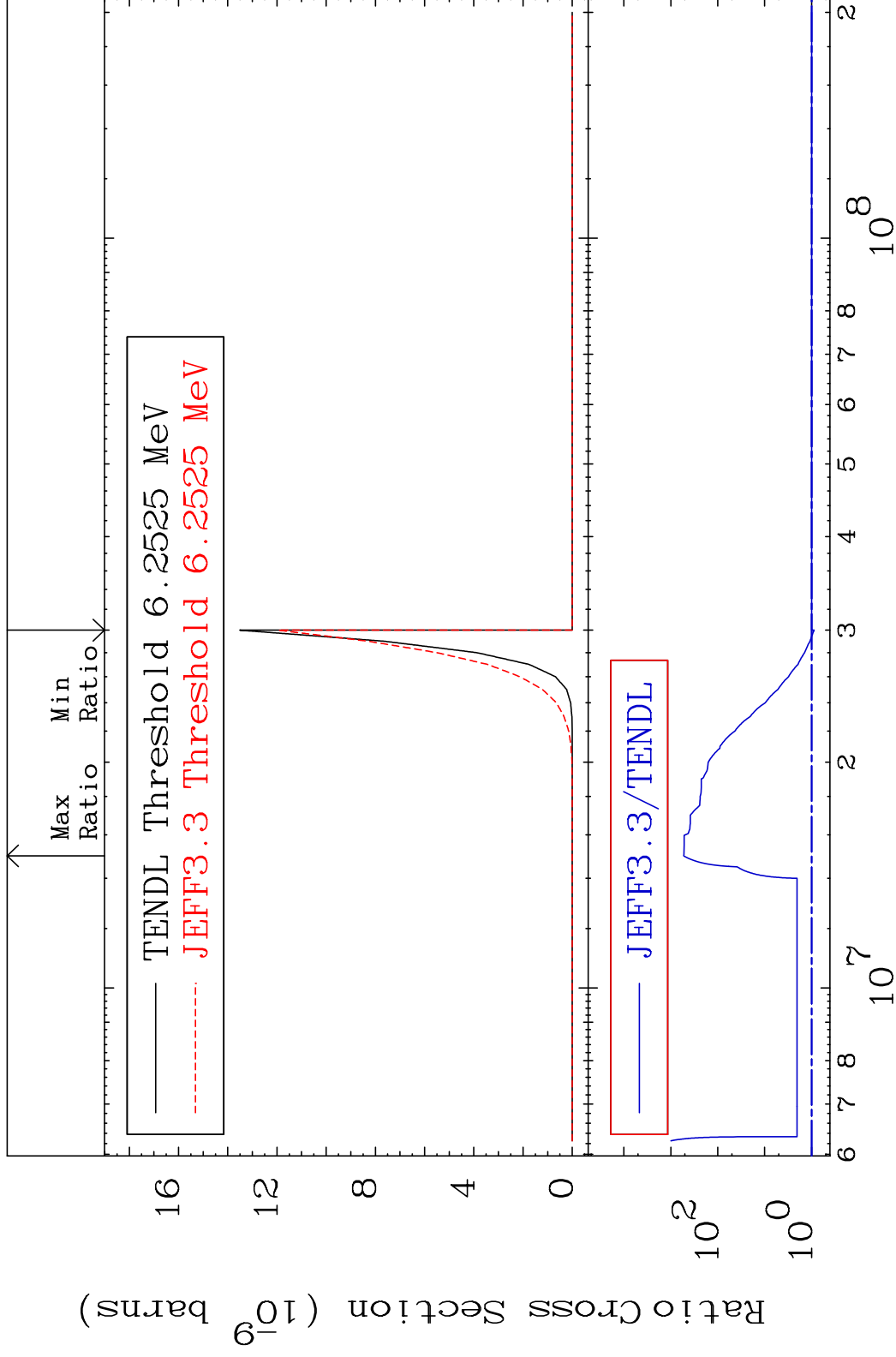
58-Ce-143

MAT 5846

(n,d) α

58-Ce-143

Cross Section -11.51 To 9999. %



62

Incident Energy (eV)

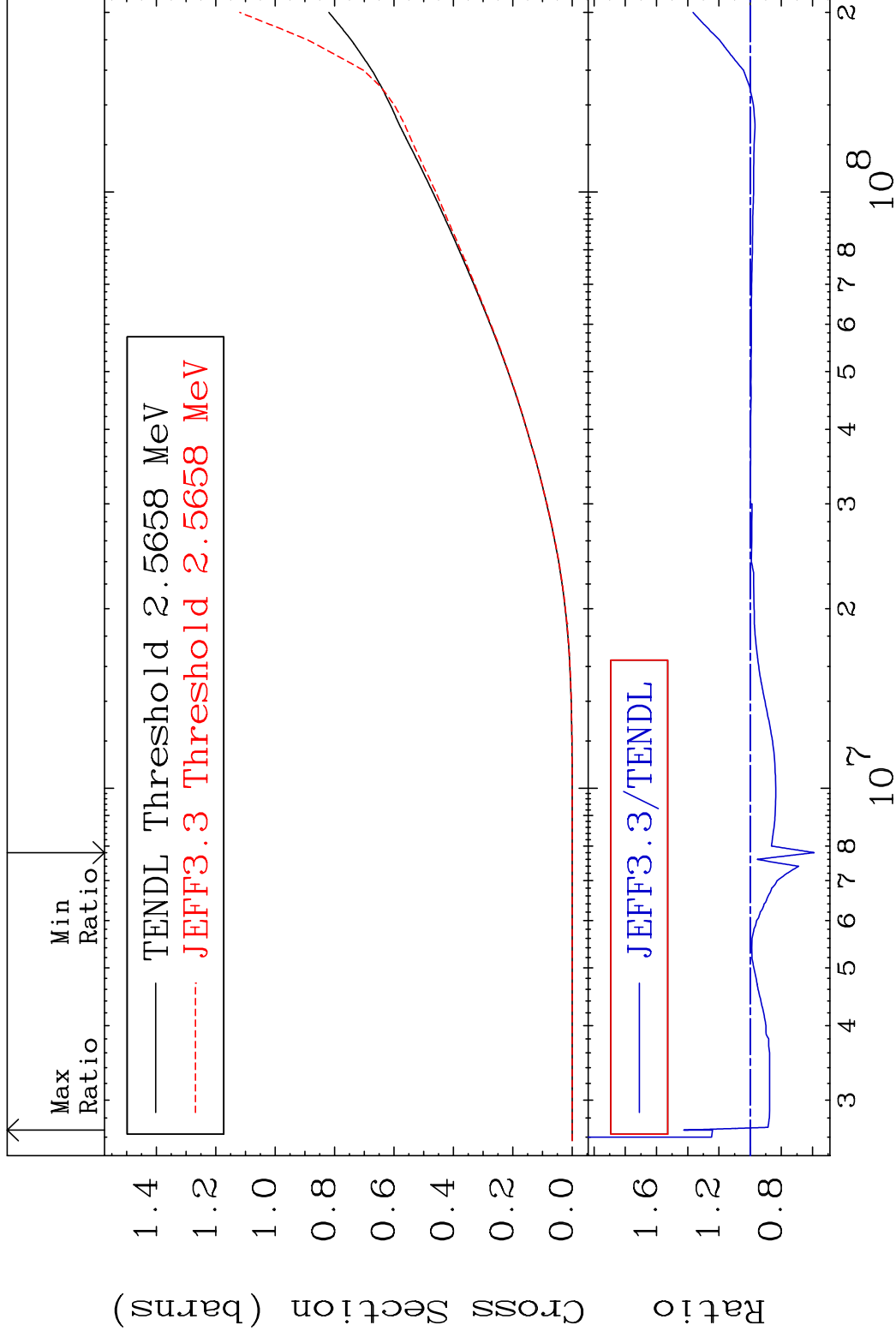
58-Ce-143

MAT 5846

Hydrogen Production

58-Ce-143

Cross Section -40.98 To 42.60 %



63

Incident Energy (eV)

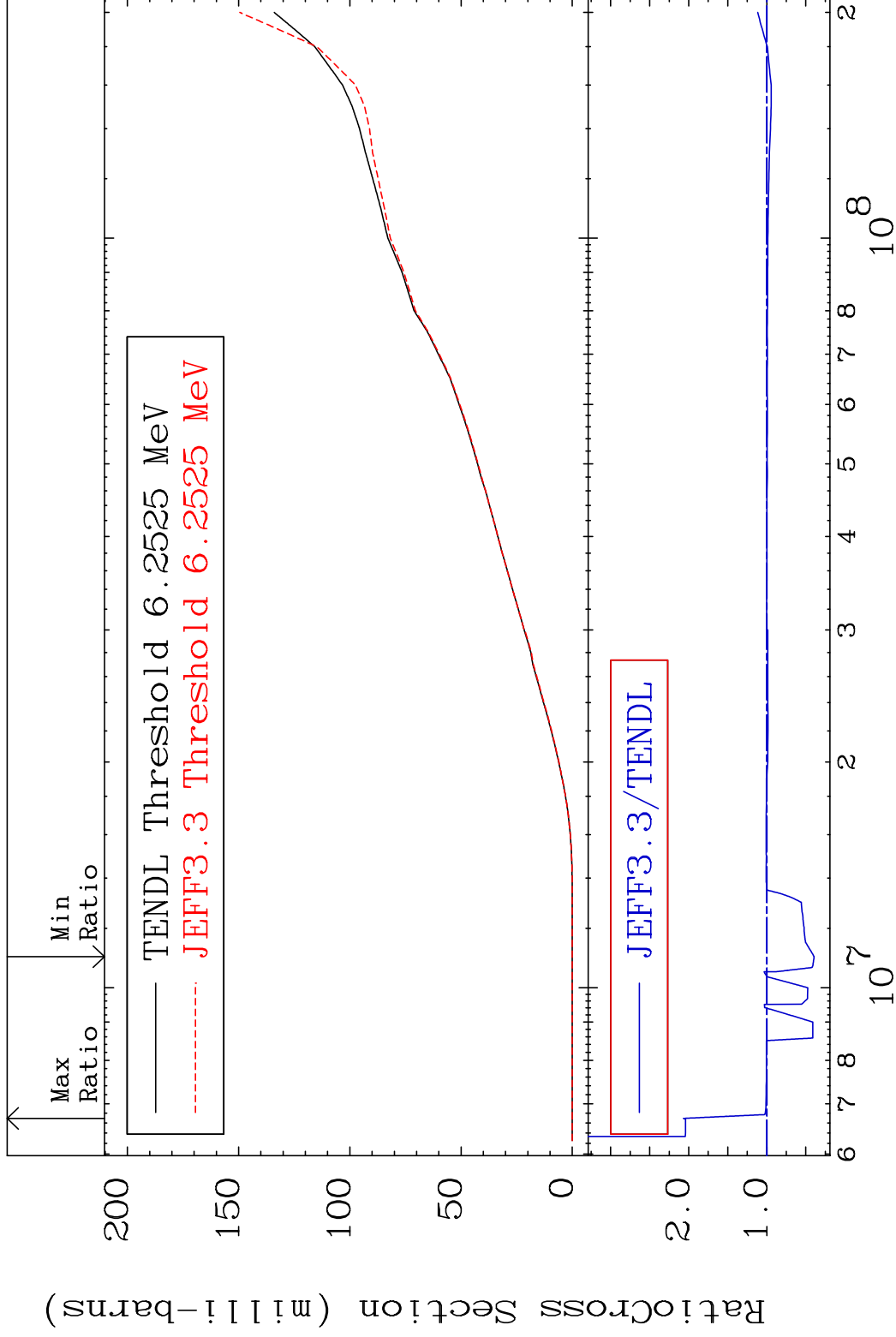
58-Ce-143

MAT 5846

Deuterium Production

58-Ce-143

Cross Section -60.65 To 106.5 %



64

Incident Energy (eV)

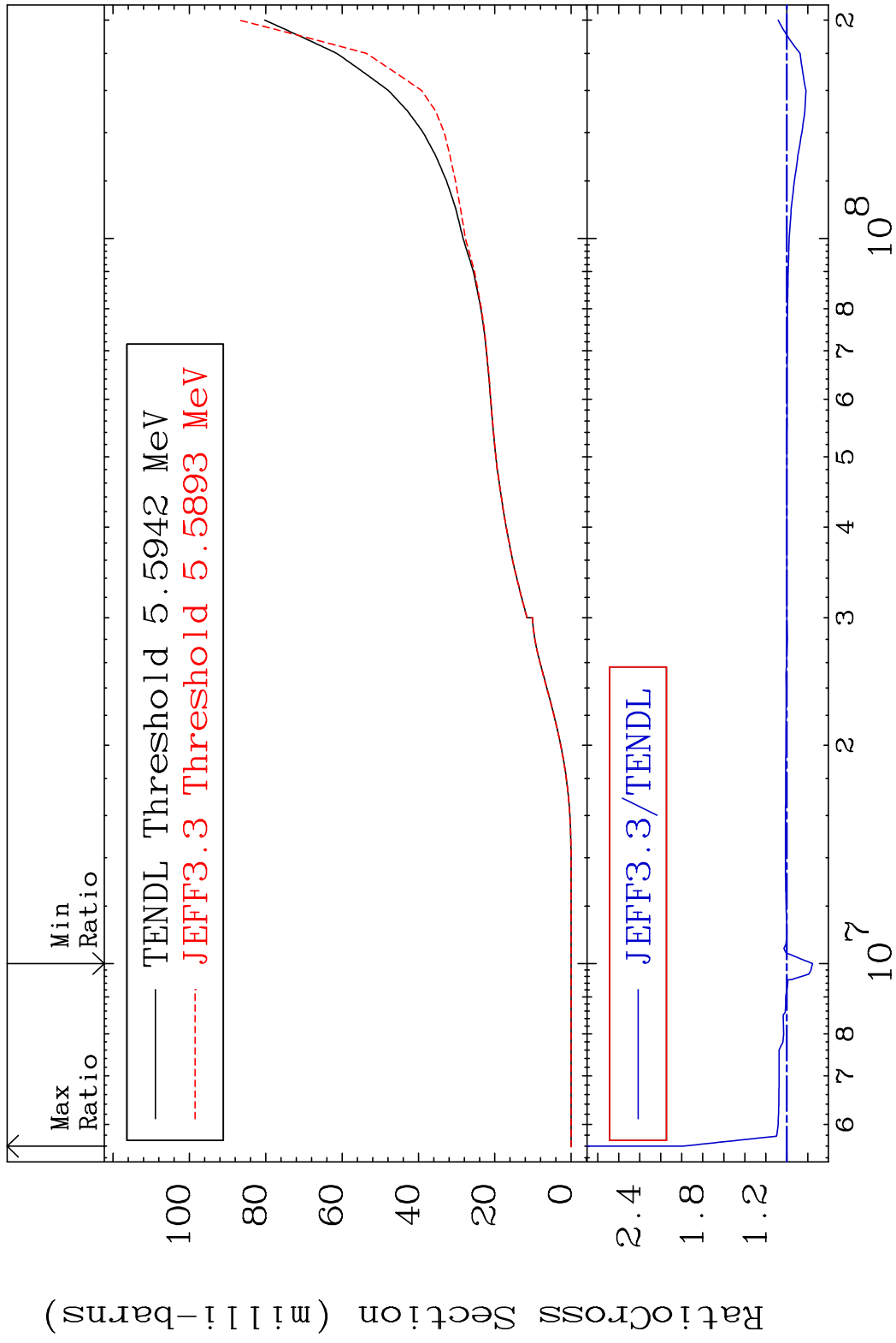
58-Ce-143

MAT 5846

Tritium Production

58-Ce-143

Cross Section -24.46 To 99.44 %



65

Incident Energy (eV)

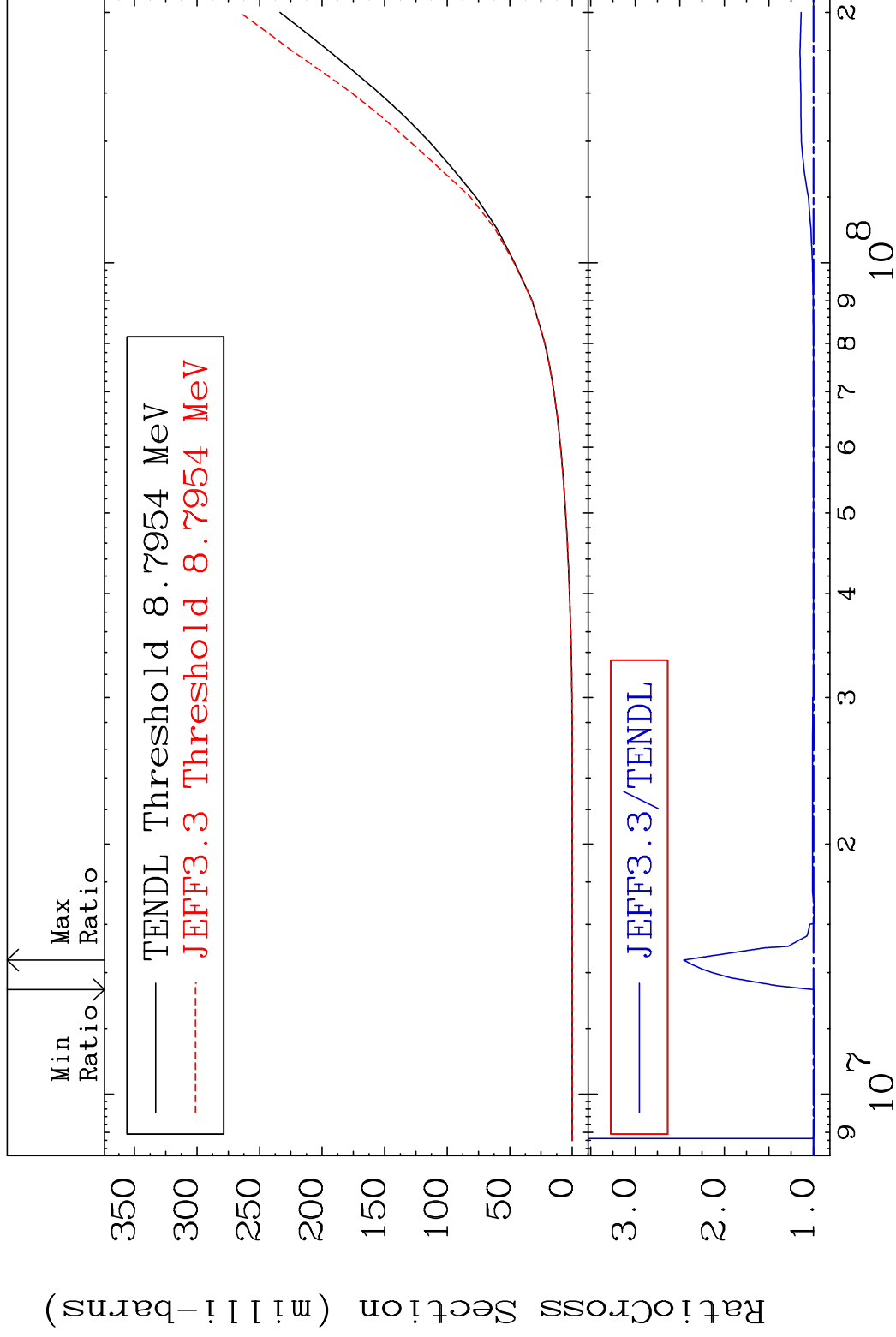
58-Ce-143

MAT 5846

He-3 Production

58-Ce-143

Cross Section -0.727 To 145.6 %



66

Incident Energy (eV)

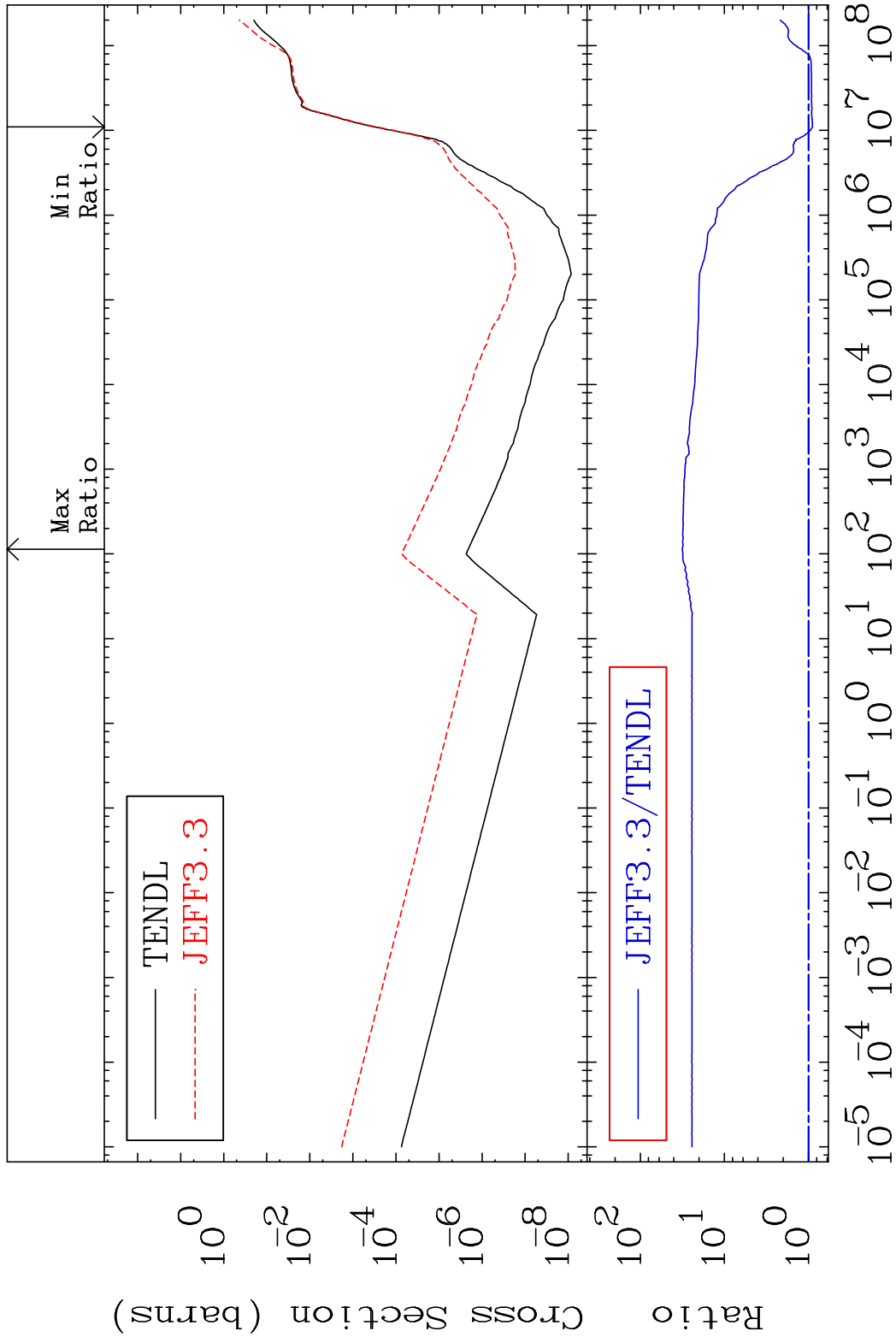
58-Ce-143

MAT 5846

He-4 Production

58-Ce-143

Cross Section -10.35 To 3067. %



67

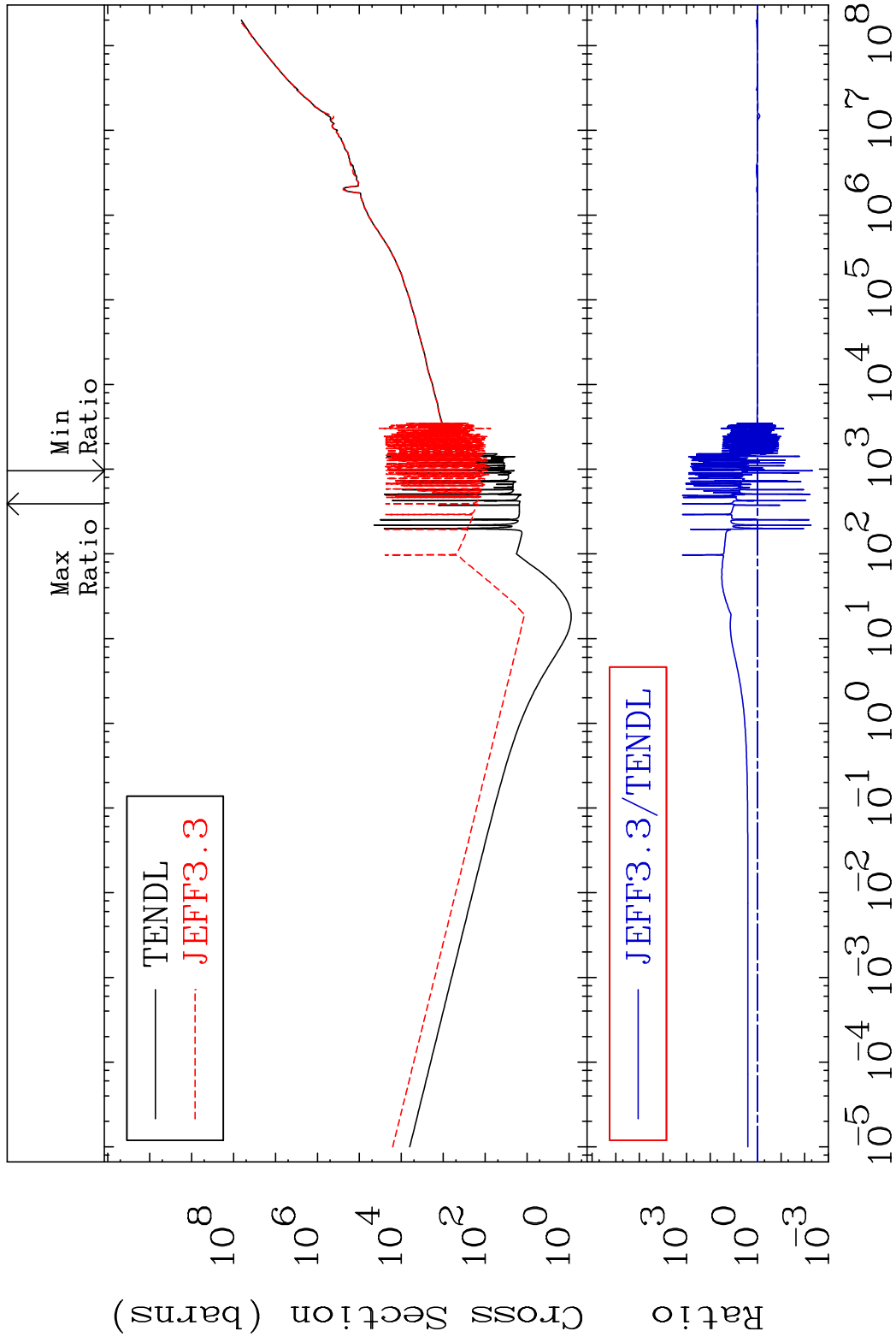
Incident Energy (eV)

58-Ce-143

MAT 5846

Kerma total (eV-barns) 58-Ce-143

Cross Section -99.54 To 9999. %



68

Incident Energy (eV)

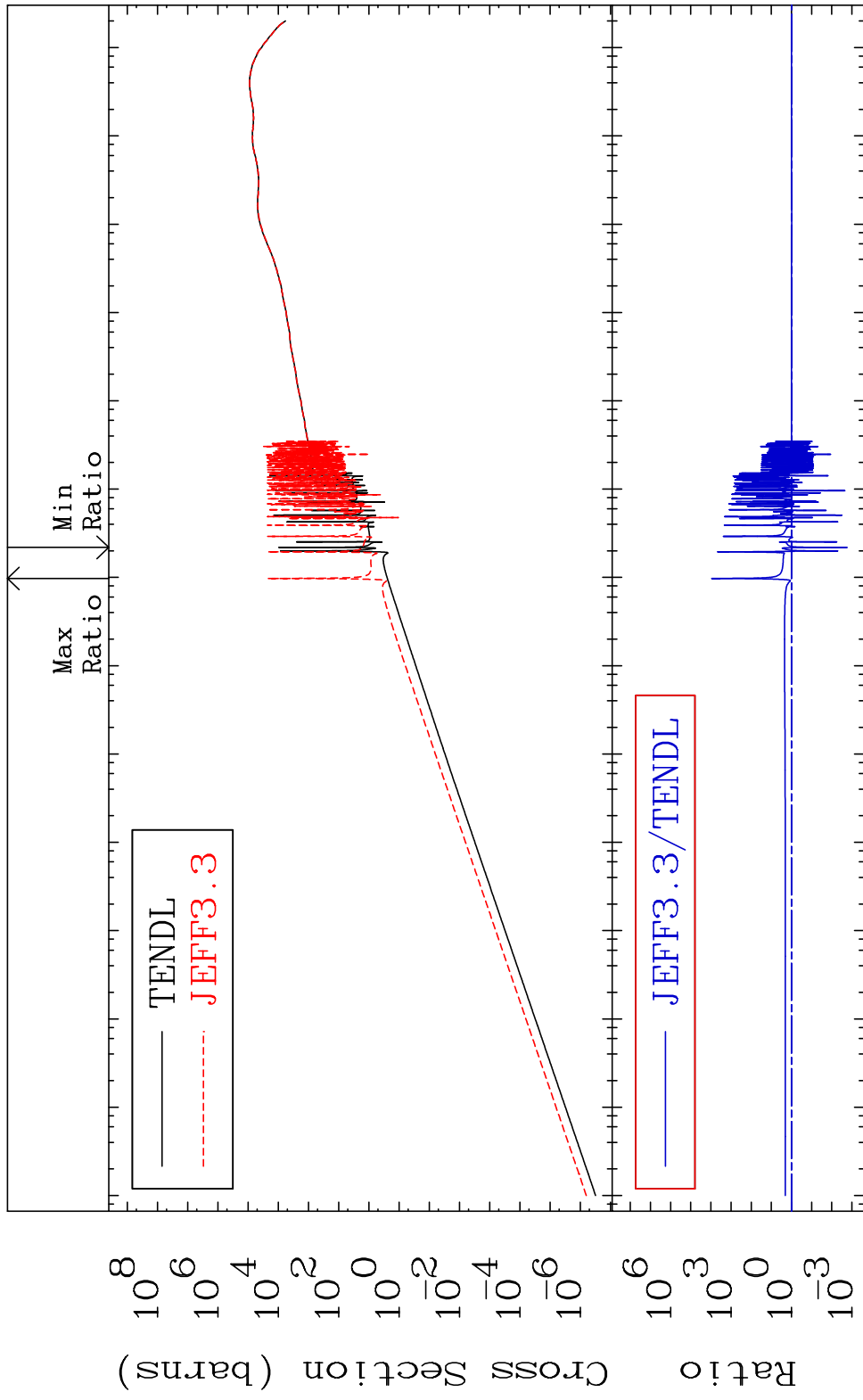
58-Ce-143

MAT 5846

Kerma elastic
Cross Section

58-Ce-143

-99.83 To 9999. %

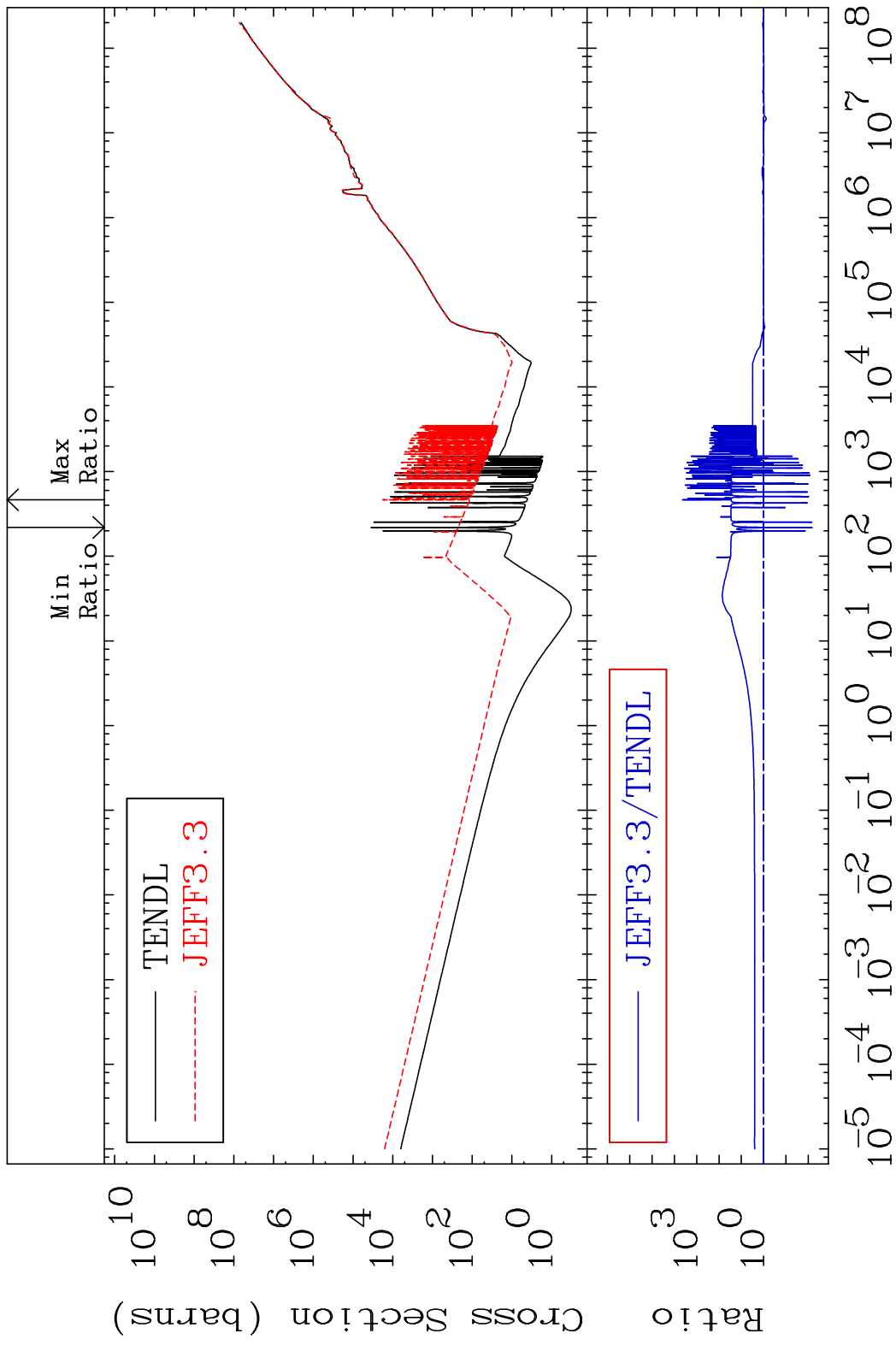


69

Incident Energy (eV)

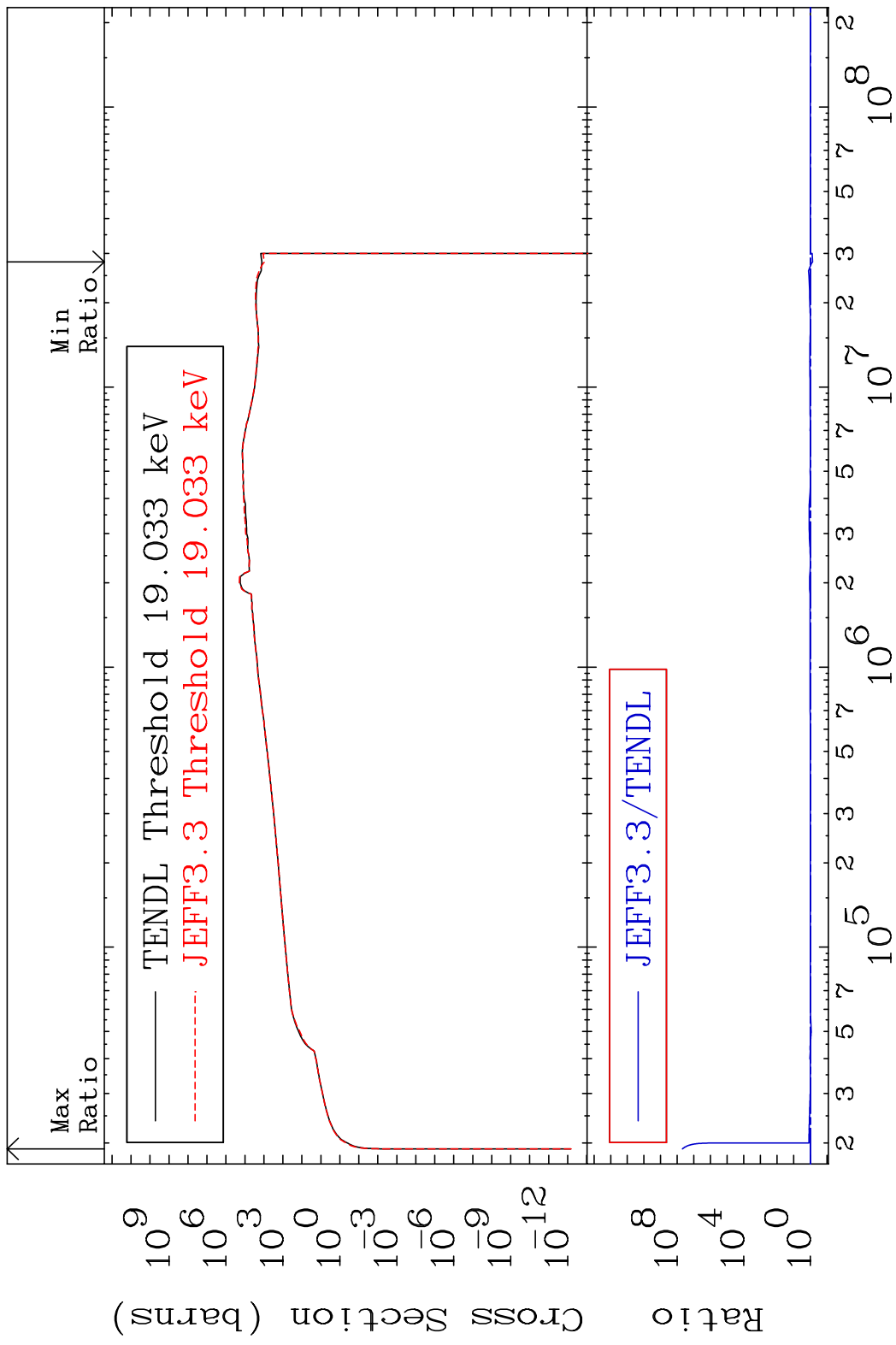
58-Ce-143

MAT 5846 Kerma non-elastic (all but mt2) 58-Ce-143
 Cross Section -99.35 To 9999. %

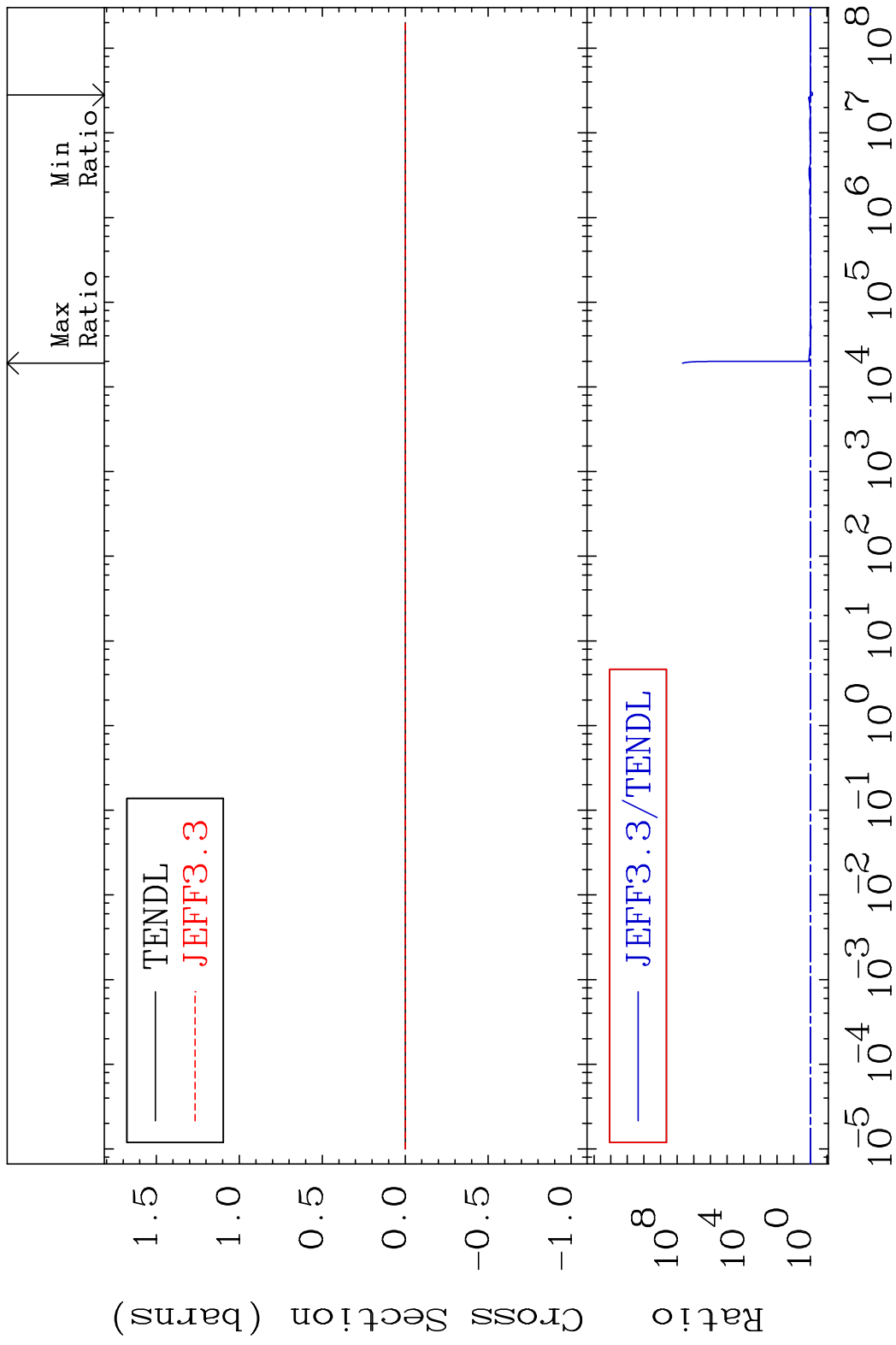


70 Incident Energy (eV) 58-Ce-143

MAT 5846 Kerma inelastic (mt51-91) 58-Ce-143
 Cross Section -27.40 To 9999. %

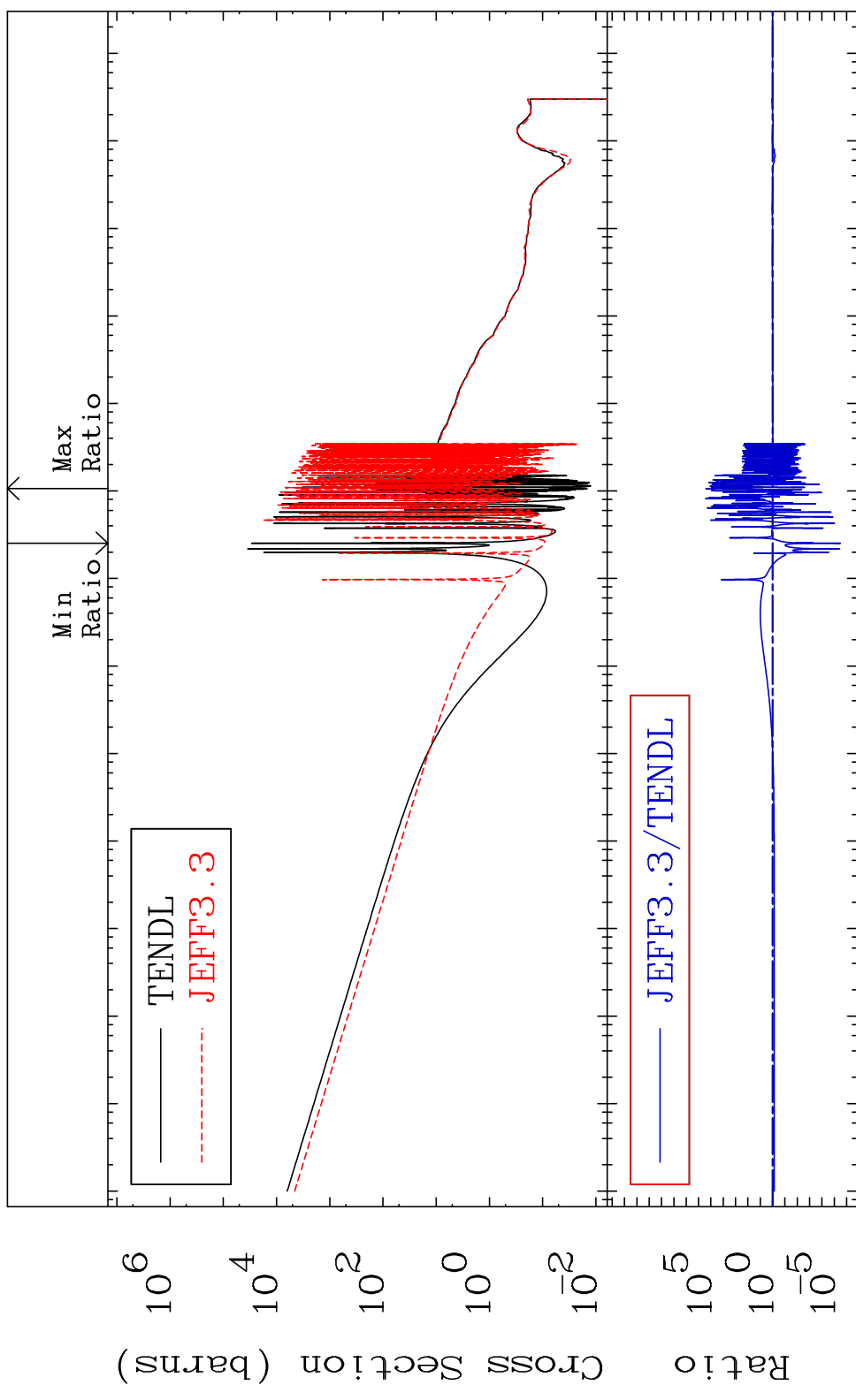


MAT 5846 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-143
 Cross Section -27.40 To 9999. %



MAT 5846

Kerma capture (mt102) 58-Ce-143
Cross Section -100.0 To 9999. %



Ratio
10⁵
10⁰
10⁻⁵

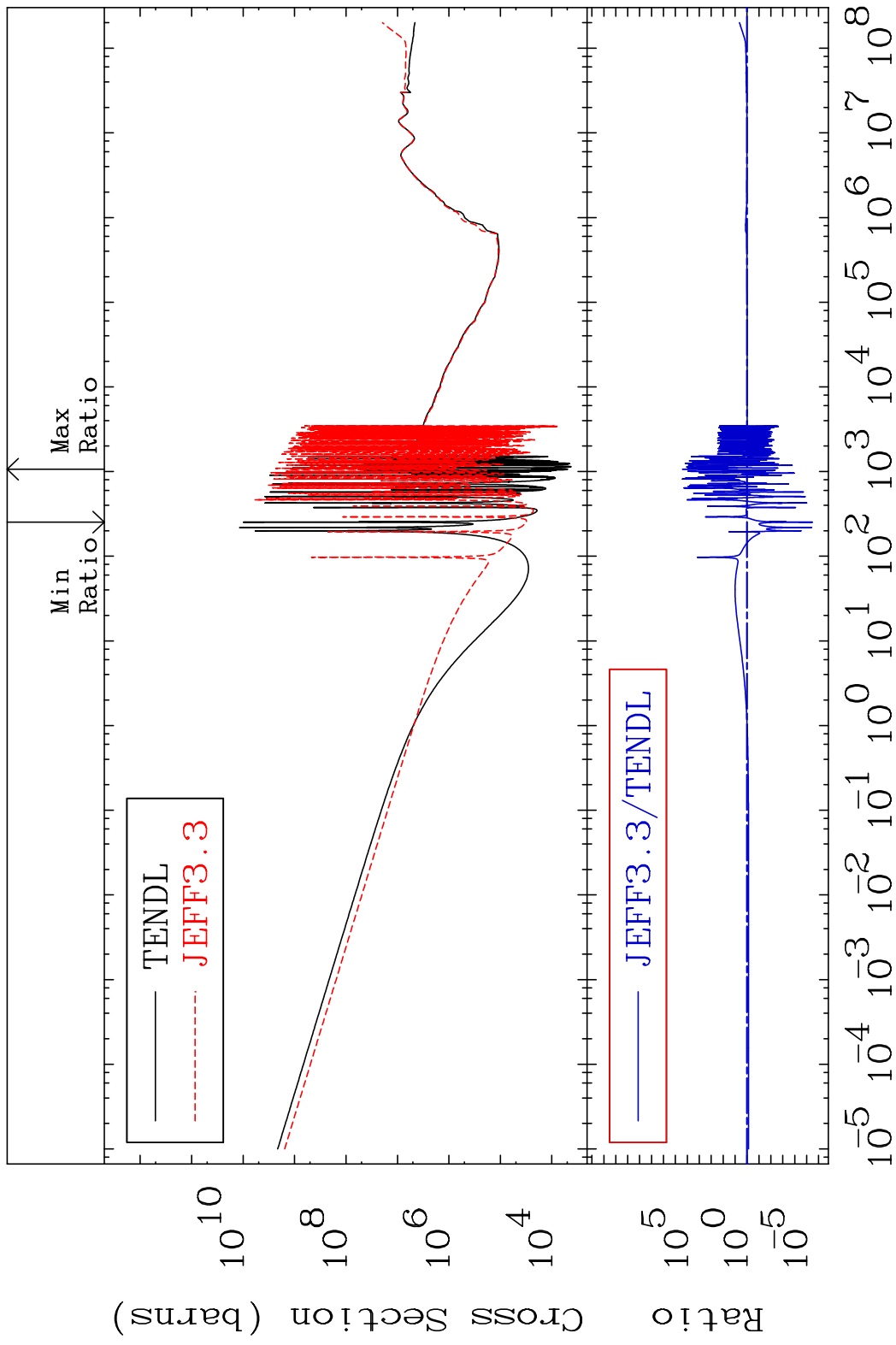
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

73

Incident Energy (eV)

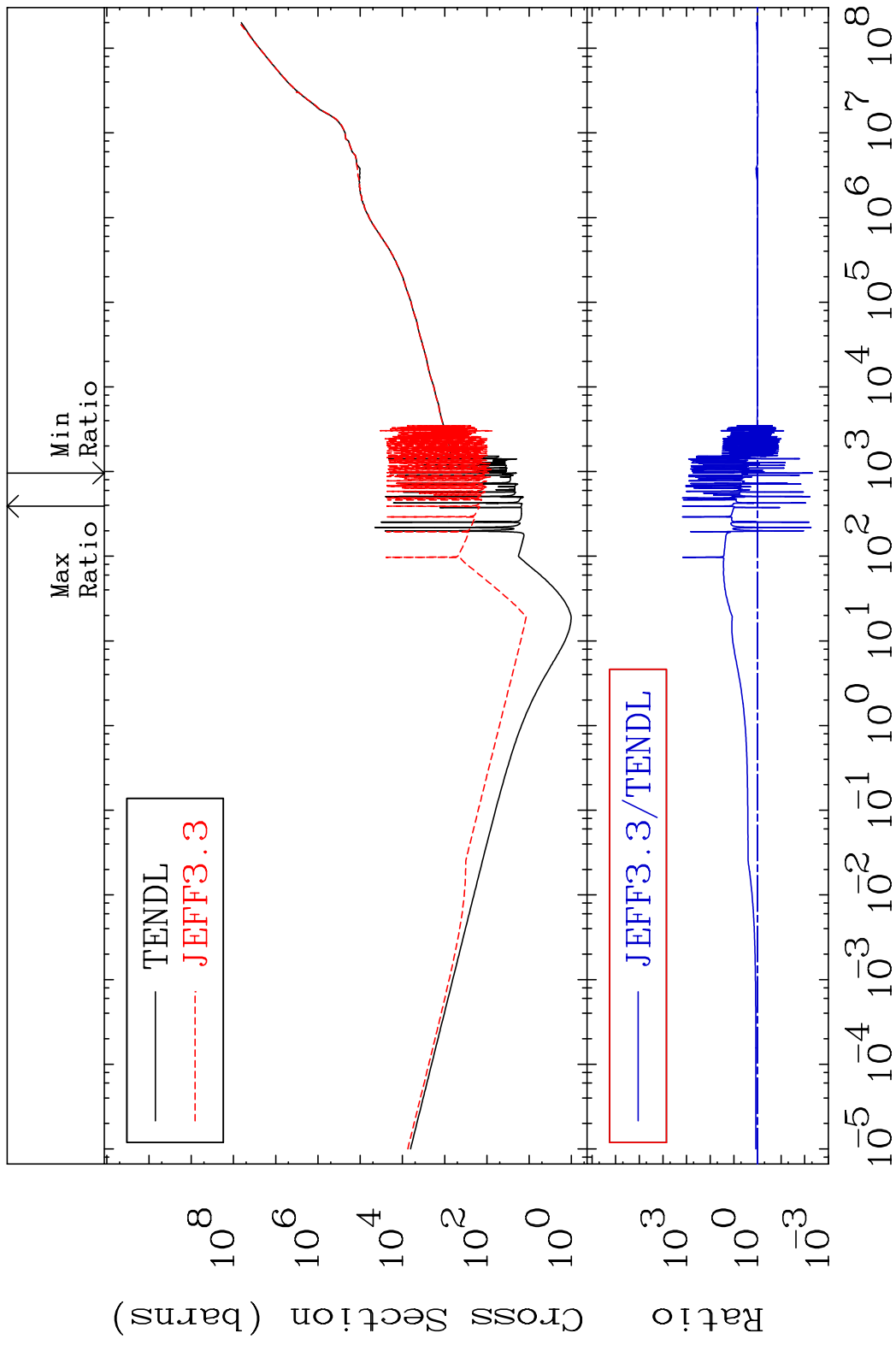
58-Ce-143

MAT 5846 Total photon (eV-barns) 58-Ce-143
 Cross Section -100.0 To 9999. %



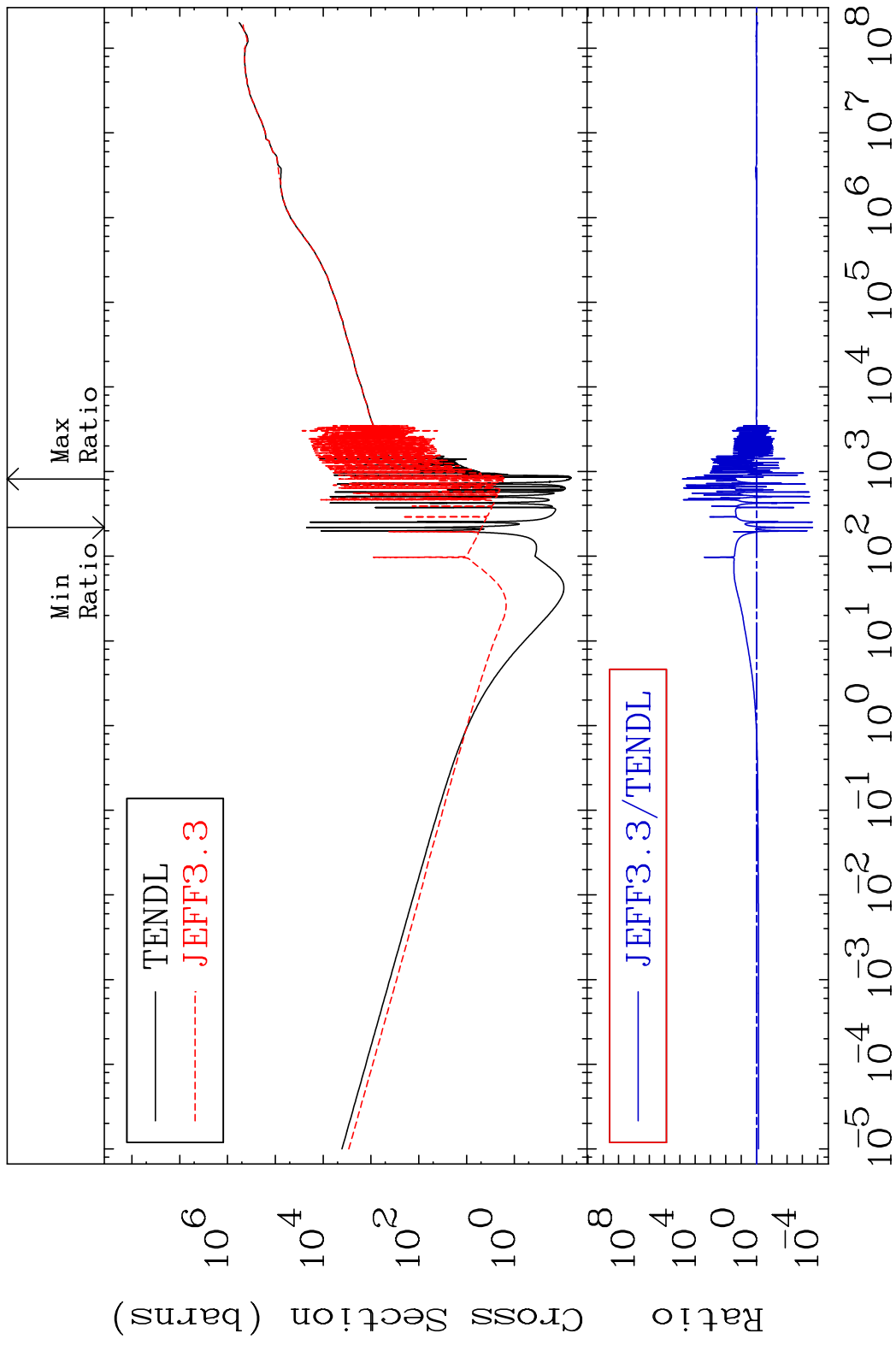
74 Incident Energy (eV) 58-Ce-143

MAT 5846 Total kinematic kerma (high limit) 58-Ce-143
 Cross Section -99.53 To 9999. %



75 Incident Energy (eV) 58-Ce-143

MAT 5846 Dpa total (eV-barns) 58-Ce-143
 Cross Section -99.98 To 9999. %



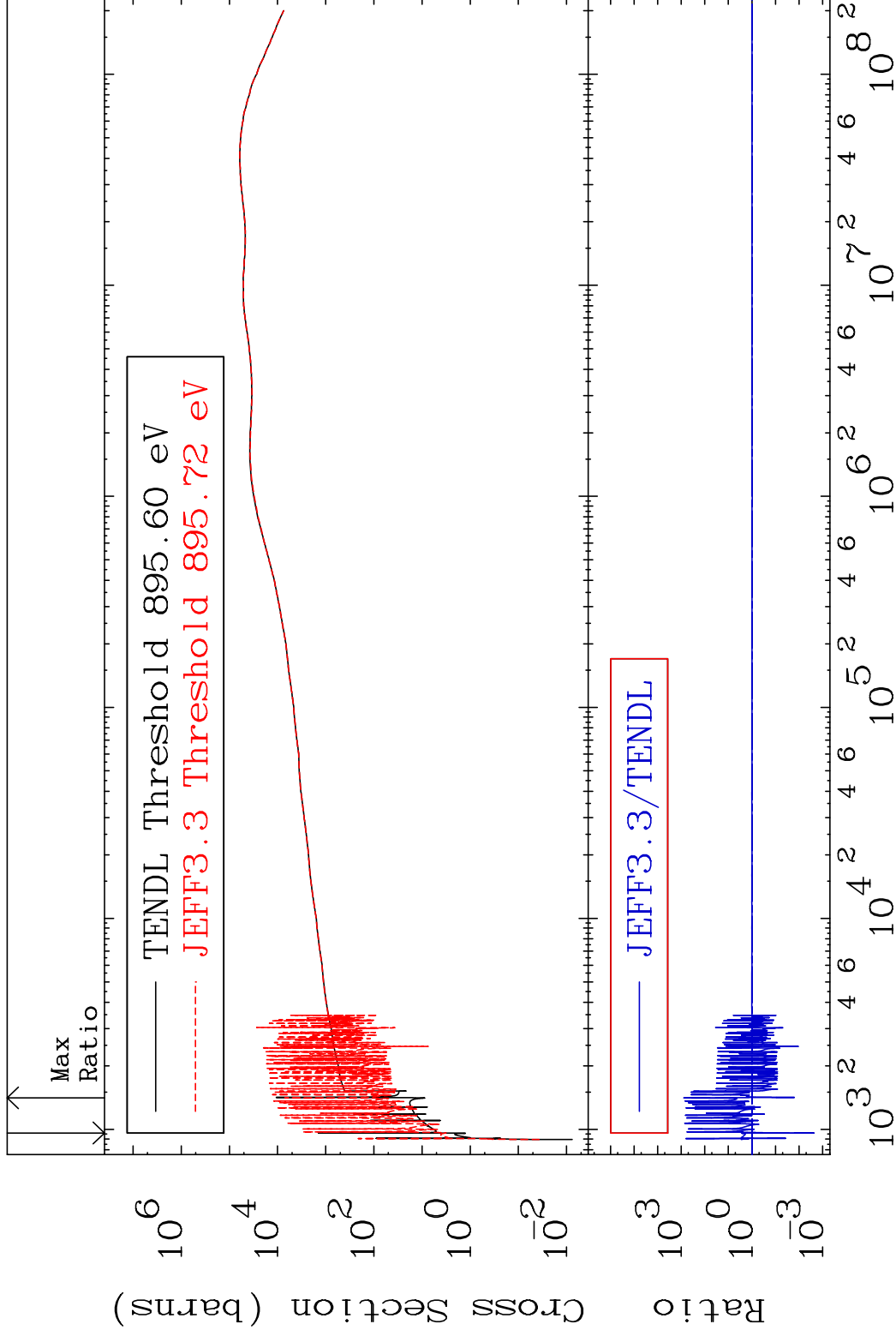
76 Incident Energy (eV) 58-Ce-143

MAT 5846

Dpa elastic (mt2)

58-Ce-143

Cross Section -99.777 To 9999. %

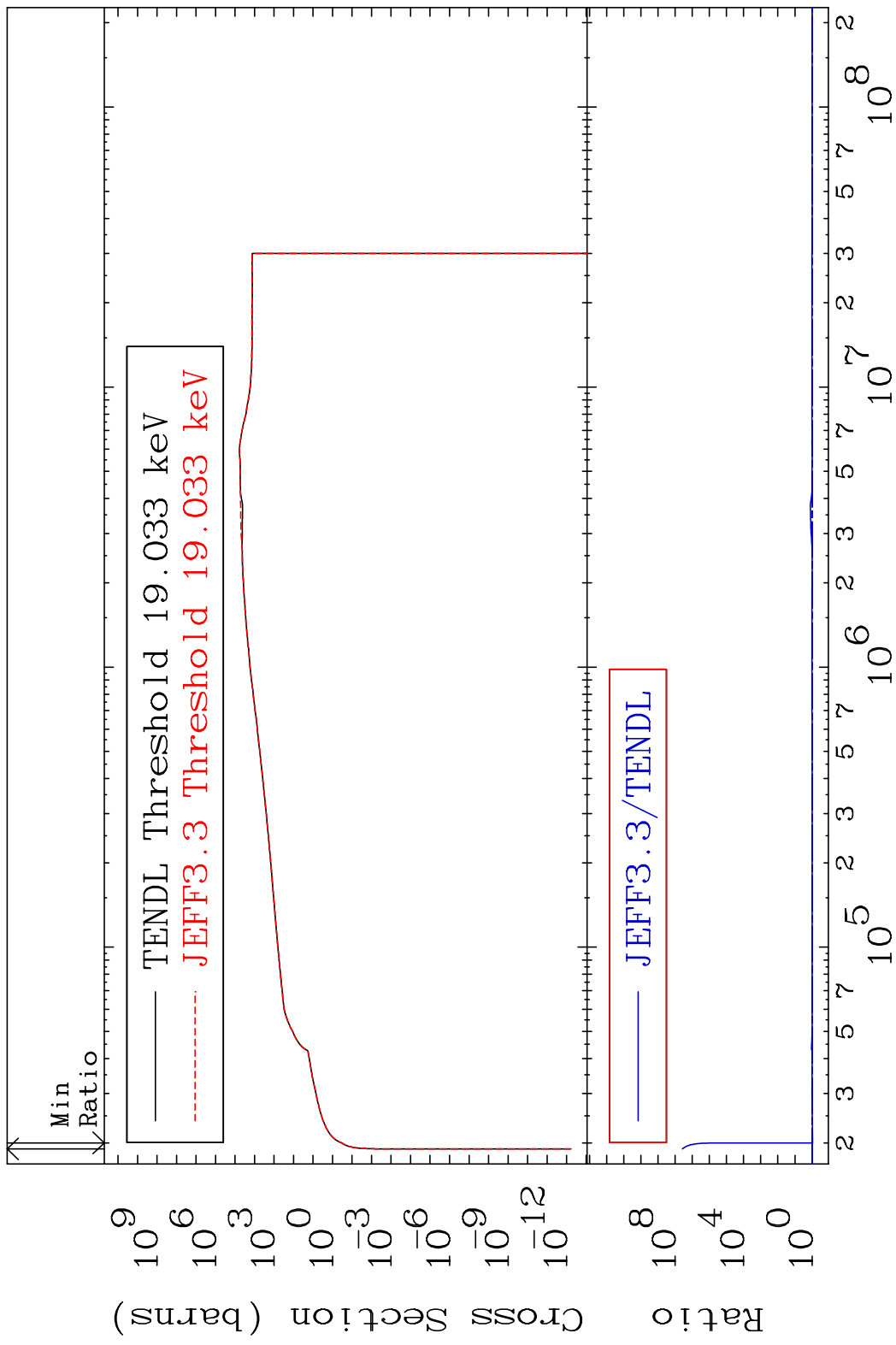


77

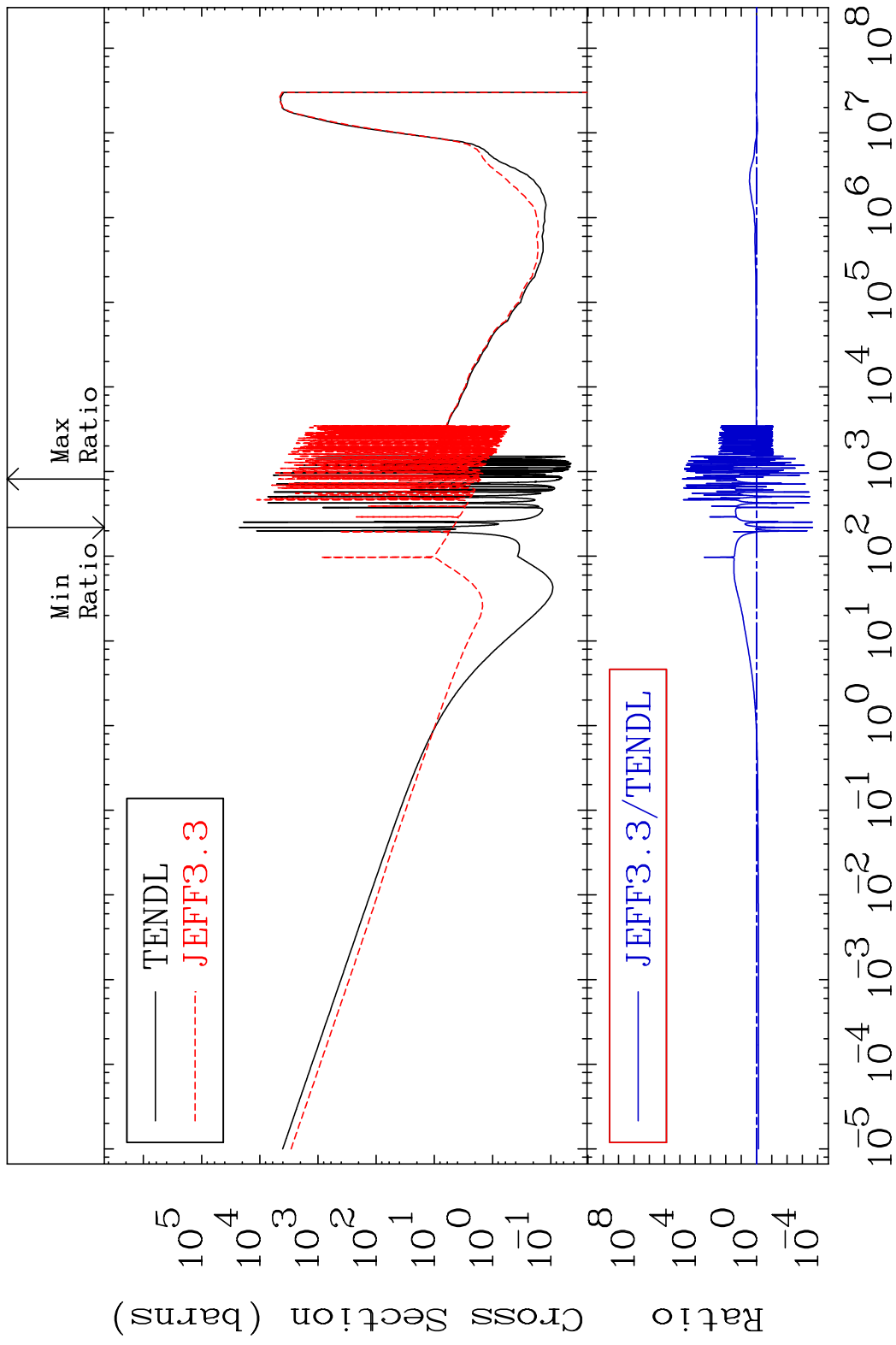
Incident Energy (eV)

58-Ce-143

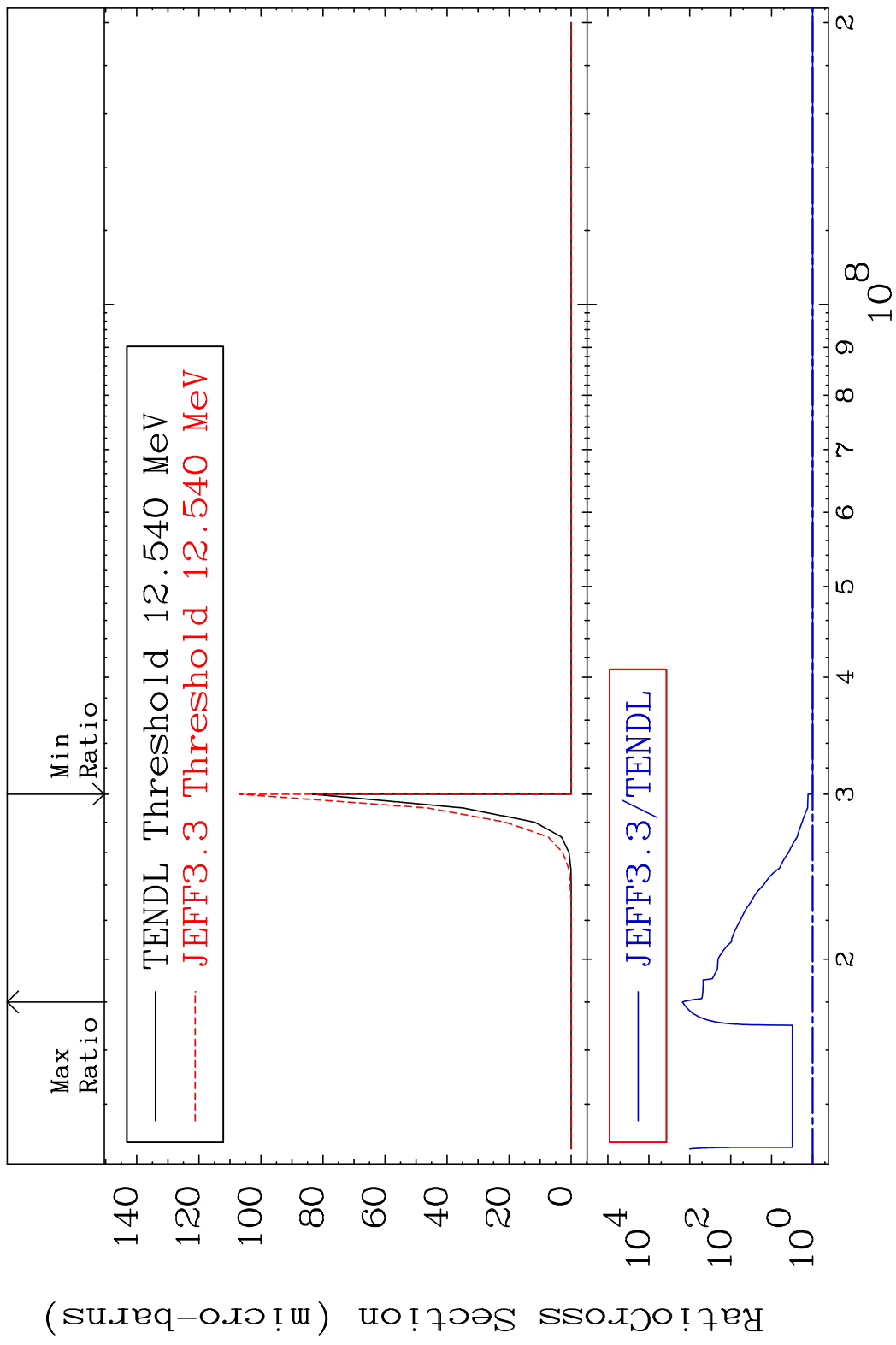
MAT 5846 Dpa inelastic (mt51-91) 58-Ce-143
 Cross Section -6.455 To 9999. %

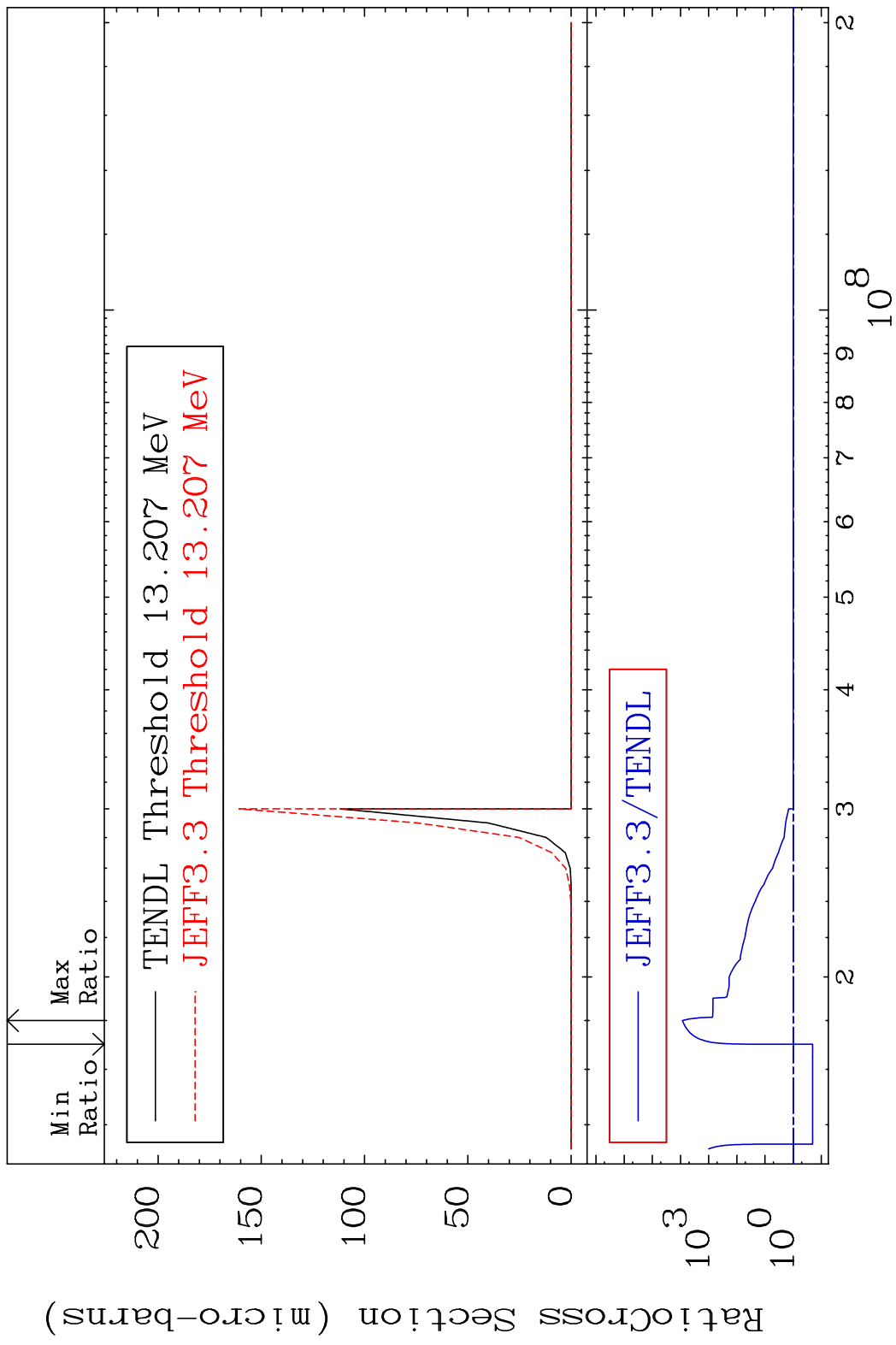


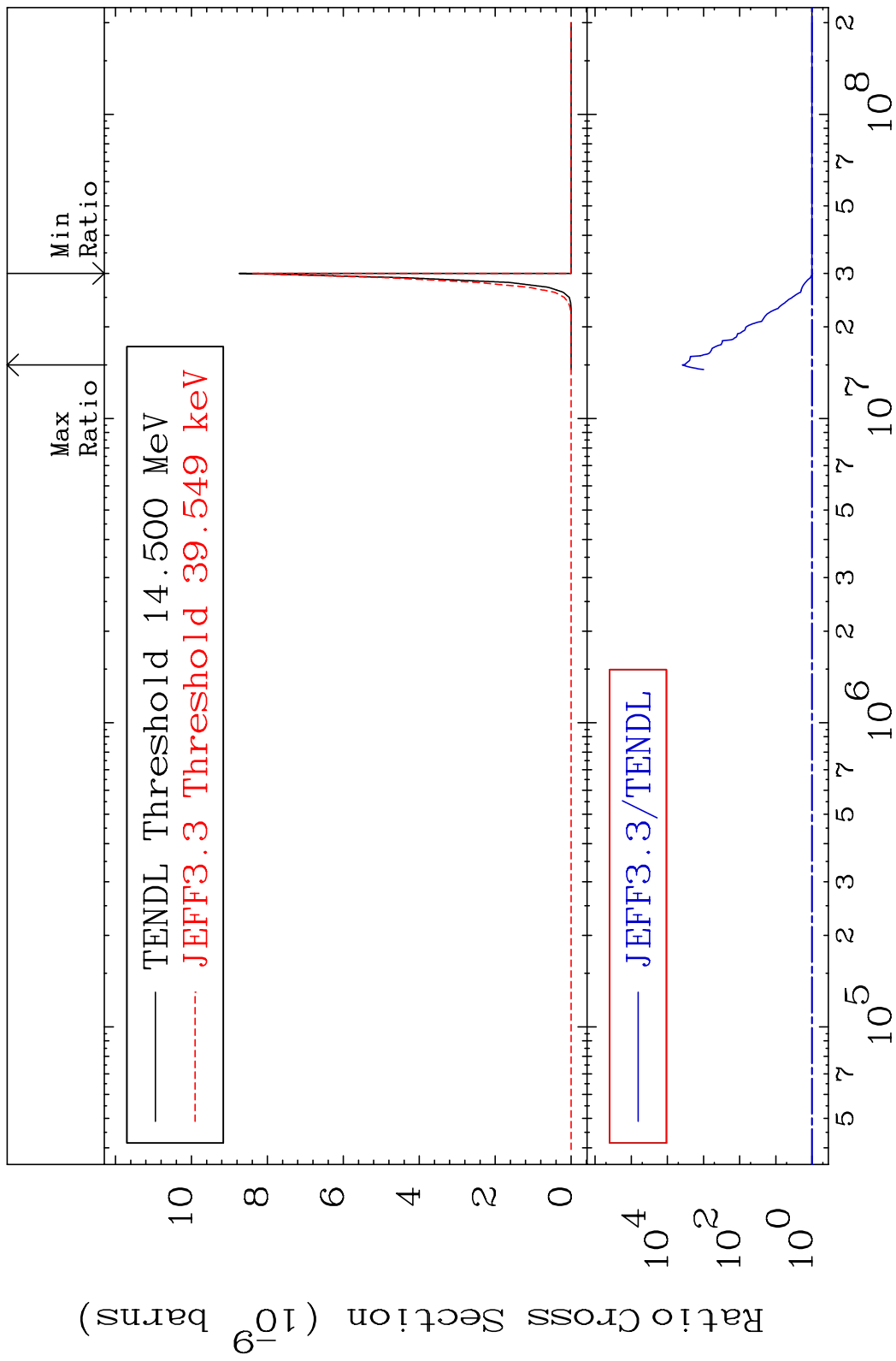
MAT 5846 Dpa disappearance (mt102 -120) 58-Ce-143
 Cross Section -99.98 To 9999. %

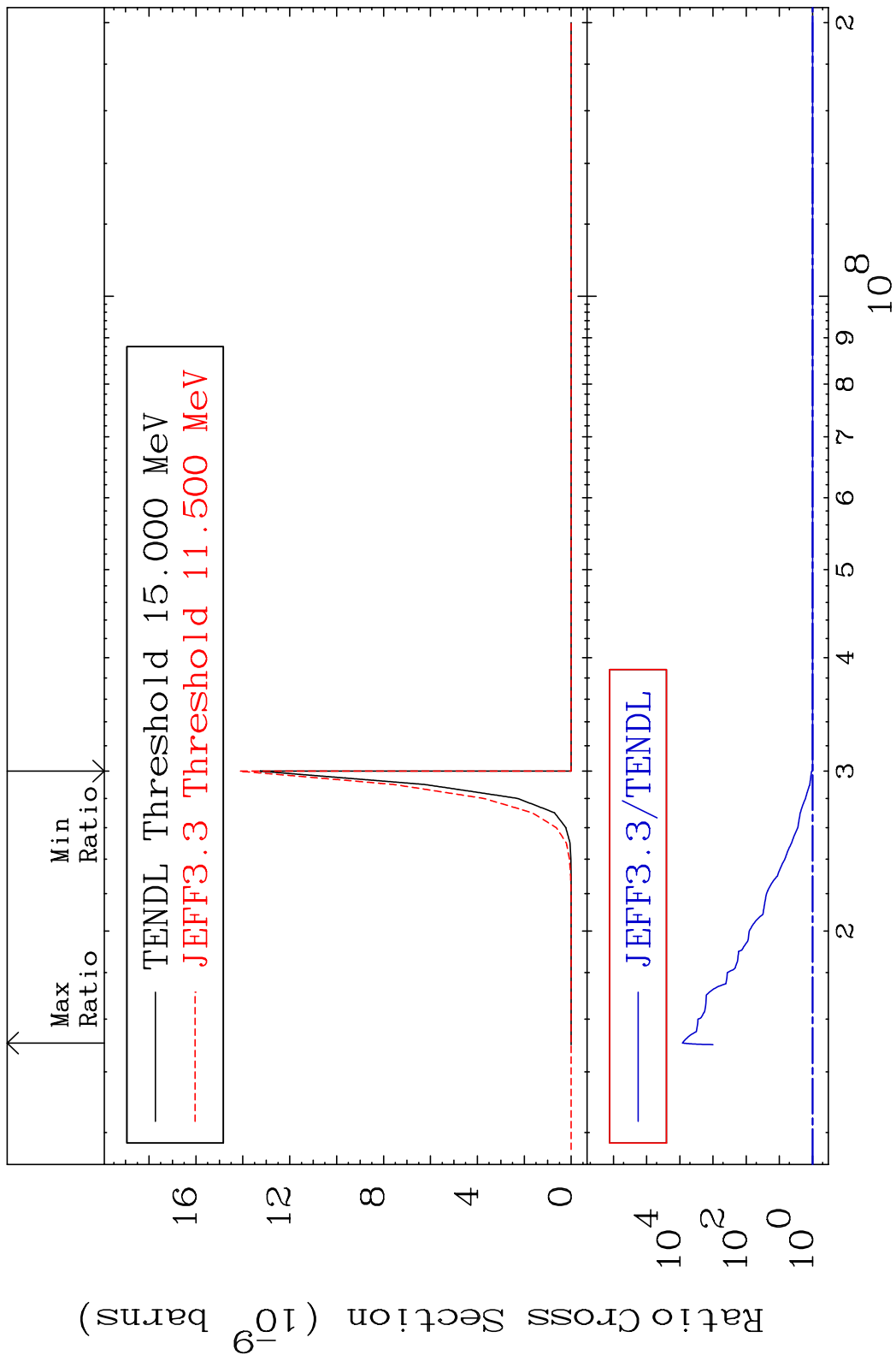


MAT 5846 (n,3n) α :56-Ba-137g 58-Ce-143
 Radionuclide Production Cross Section 9999. %

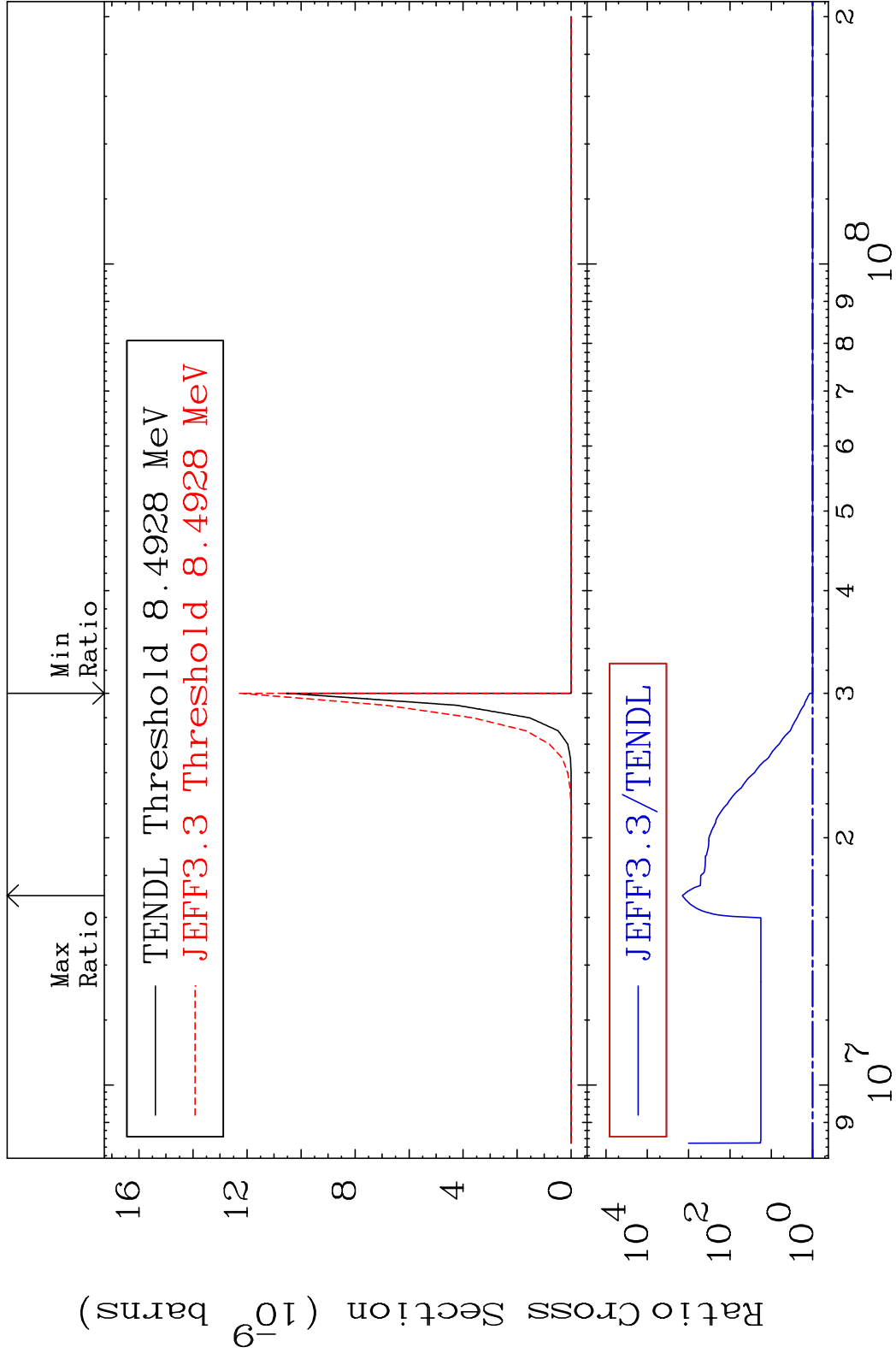








MAT 5846 (n,n') p α:55-Cs-138g 58-Ce-143
 Radionuclide Production Cross Section, %



MAT 5846 (n, n') p α :55-Cs-138m3 58-Ce-143
 Radionuclide Production Cross Section, %

