

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

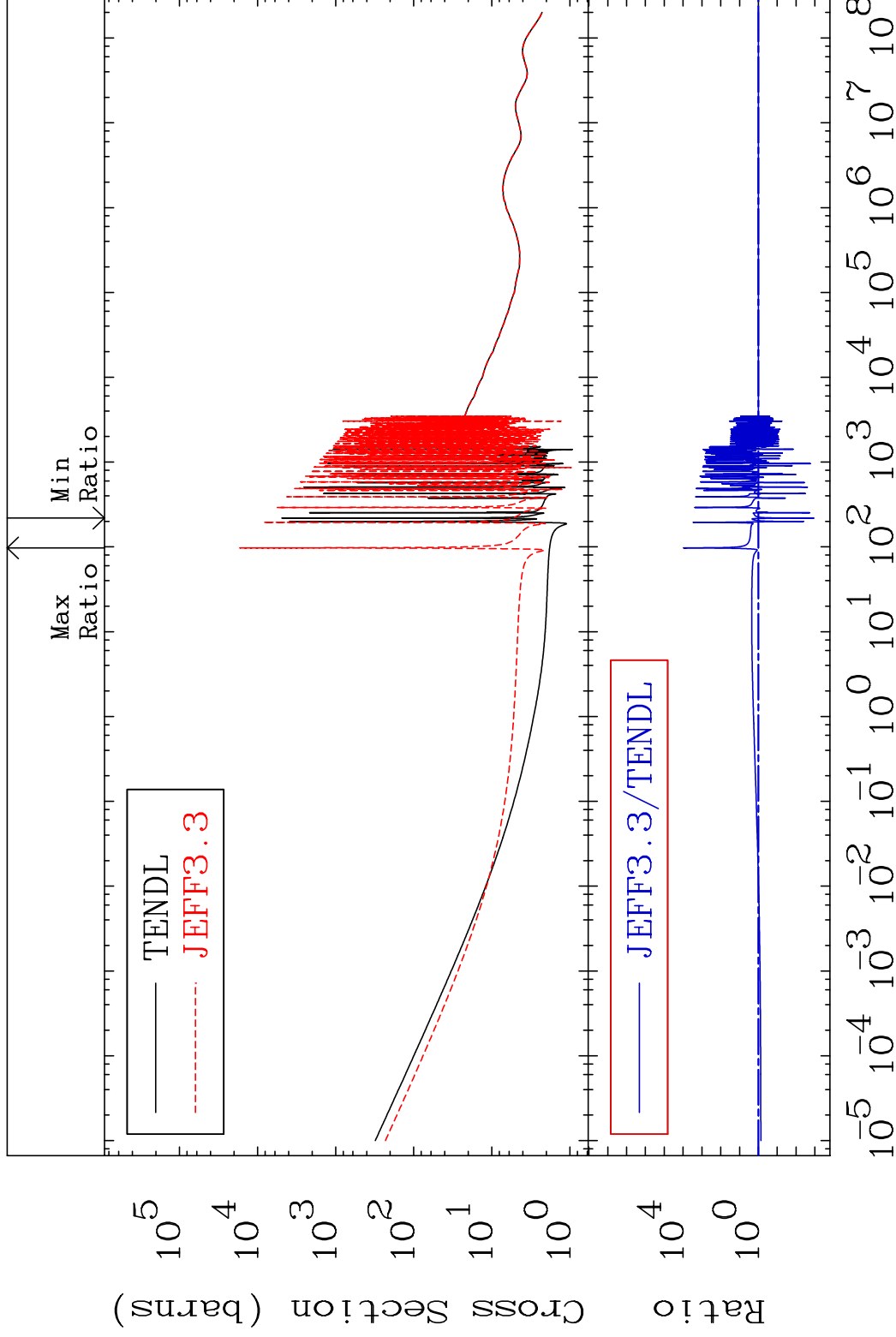
MAT 5846

Total

58-Ce-143

Cross Section

-99.89 To 9999. %



1

Incident Energy (eV)

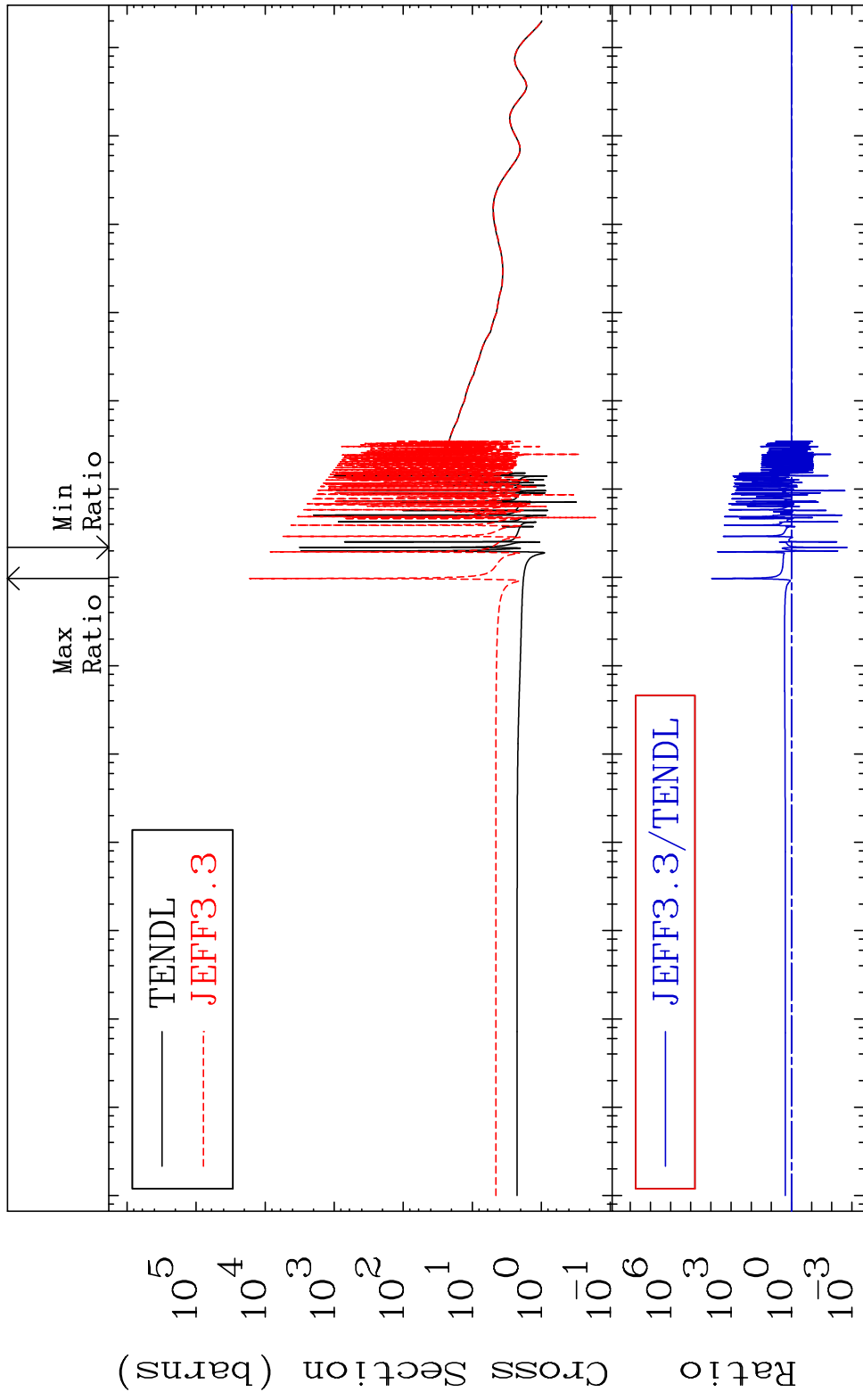
58-Ce-143

MAT 5846

Elastic

58-Ce-143

Cross Section -99.83 To 9999. %



10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

2

Incident Energy (eV)

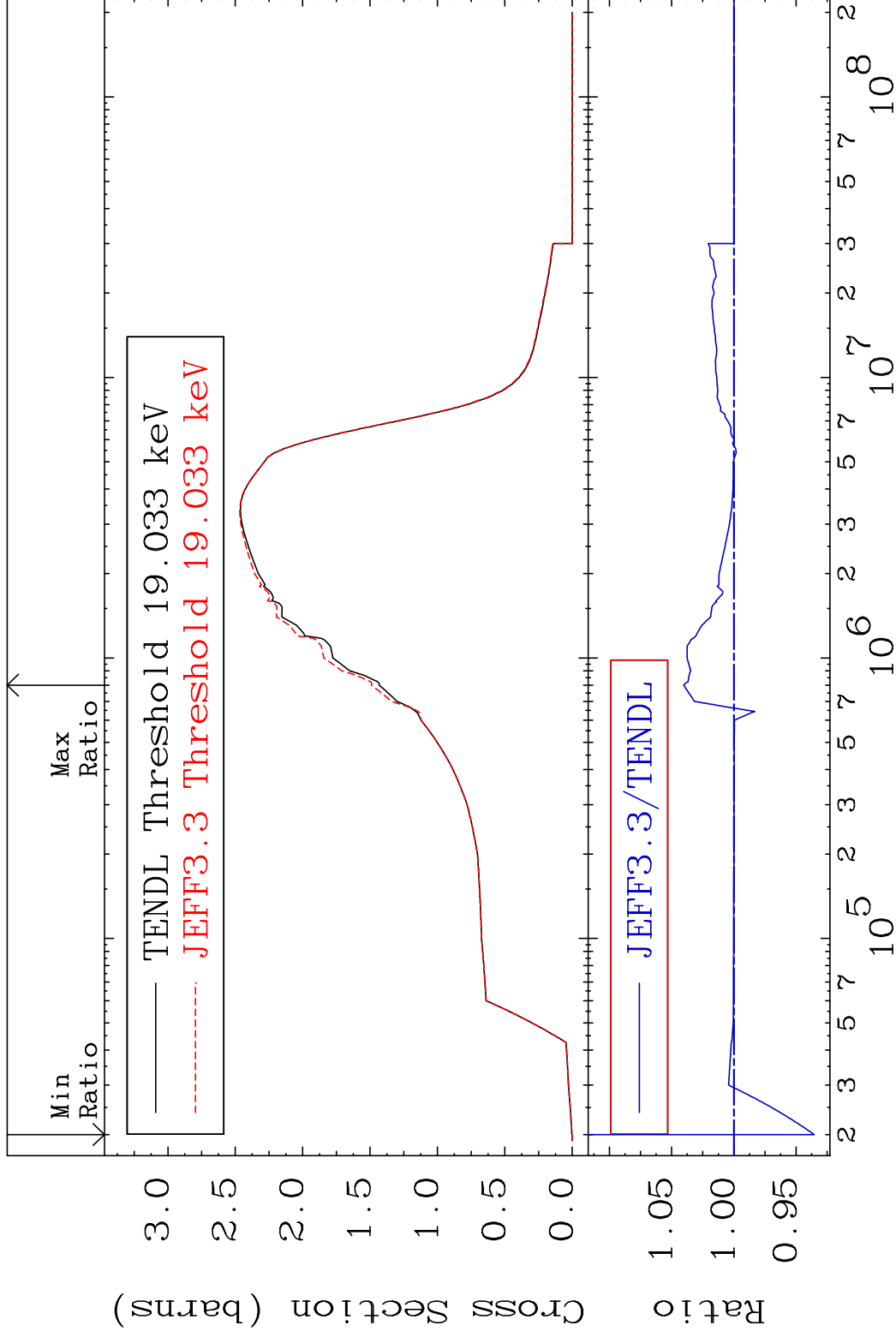
58-Ce-143

MAT 5846

Inelastic

58-Ce-143

Cross Section -6.448 To 4.034 %



3

Incident Energy (eV)

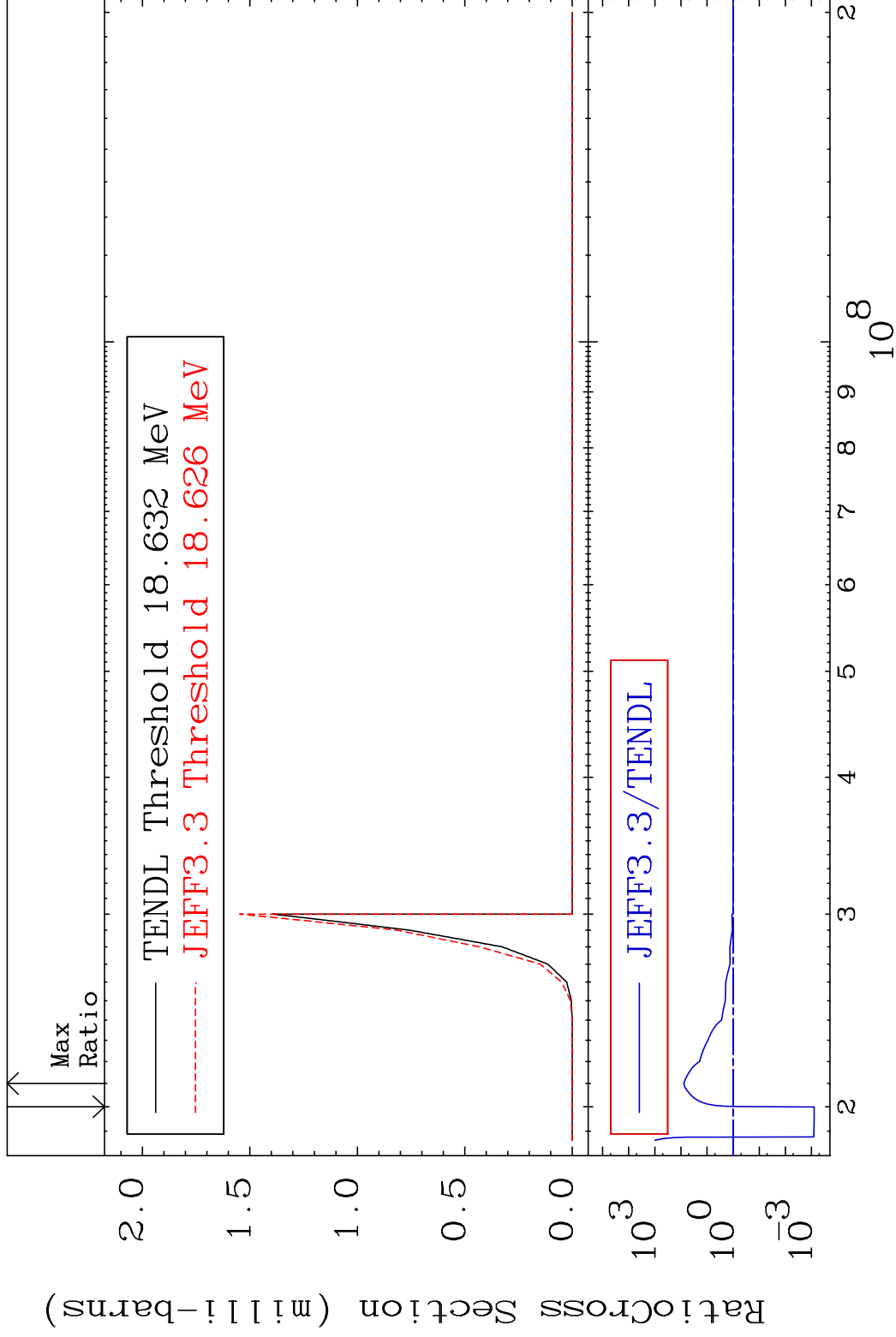
58-Ce-143

MAT 5846

(n,2n) d

58-Ce-143

Cross Section -99.92 To 7767. %



4

Incident Energy (eV)

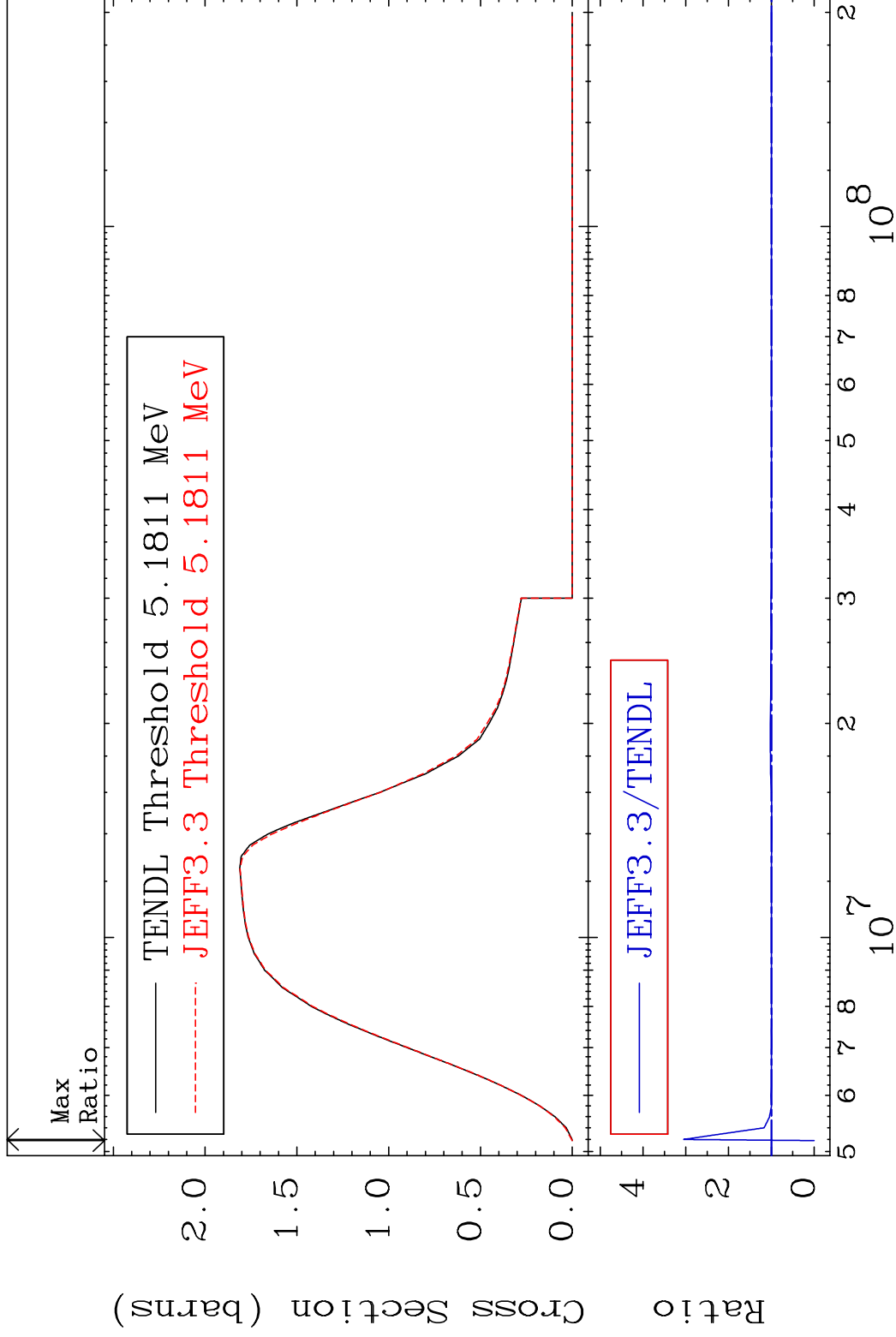
58-Ce-143

MAT 5846

(n,2n)

58-Ce-143

Cross Section -100.0 To 205.0 %



5

Incident Energy (eV)

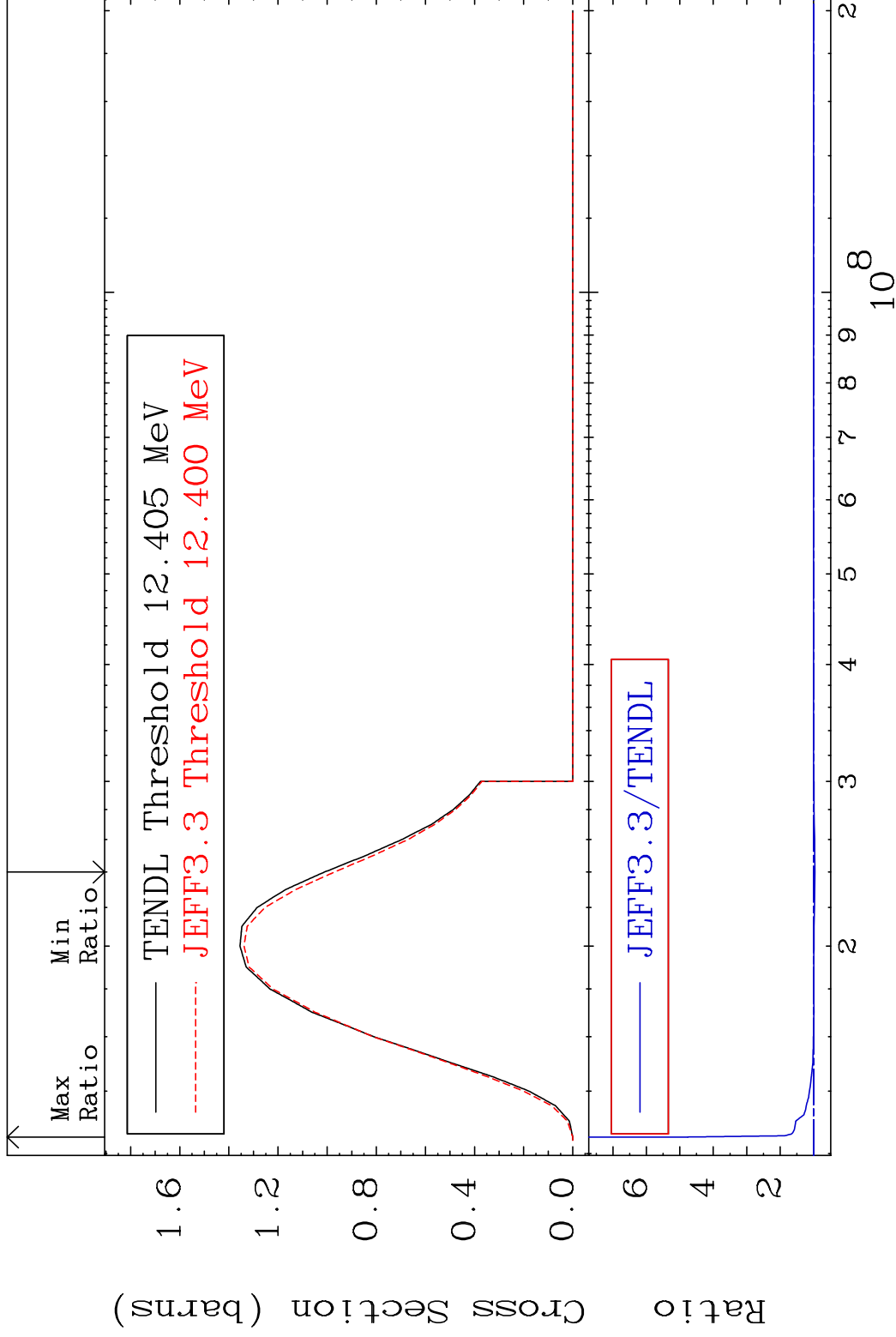
58-Ce-143

MAT 5846

(n,3n)

58-Ce-143

Cross Section -4.048 To 386.6 %



6

Incident Energy (eV)

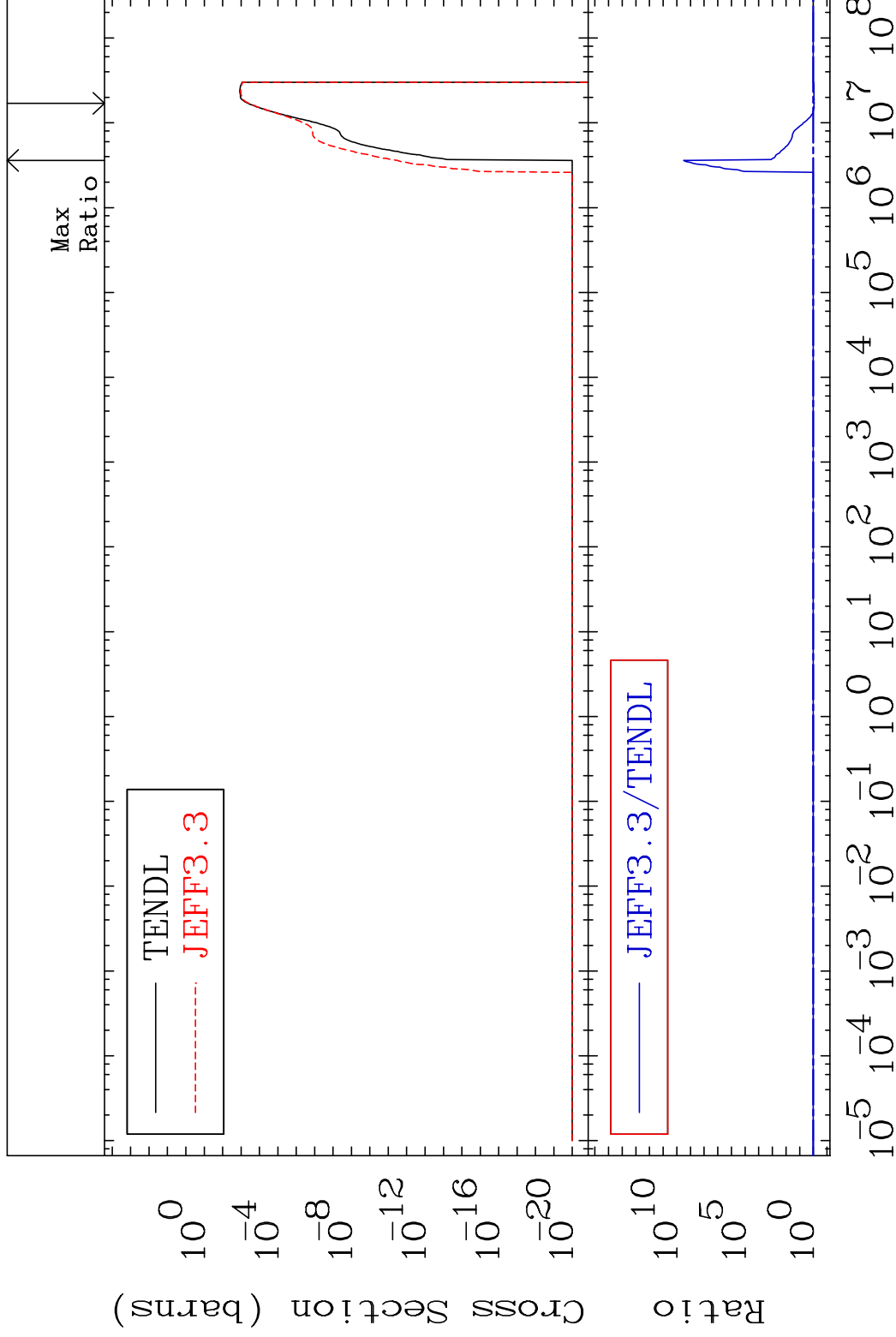
58-Ce-143

MAT 5846

(n, n') α

58-Ce-143

Cross Section -12.04 To 9999. %



7

Incident Energy (eV)

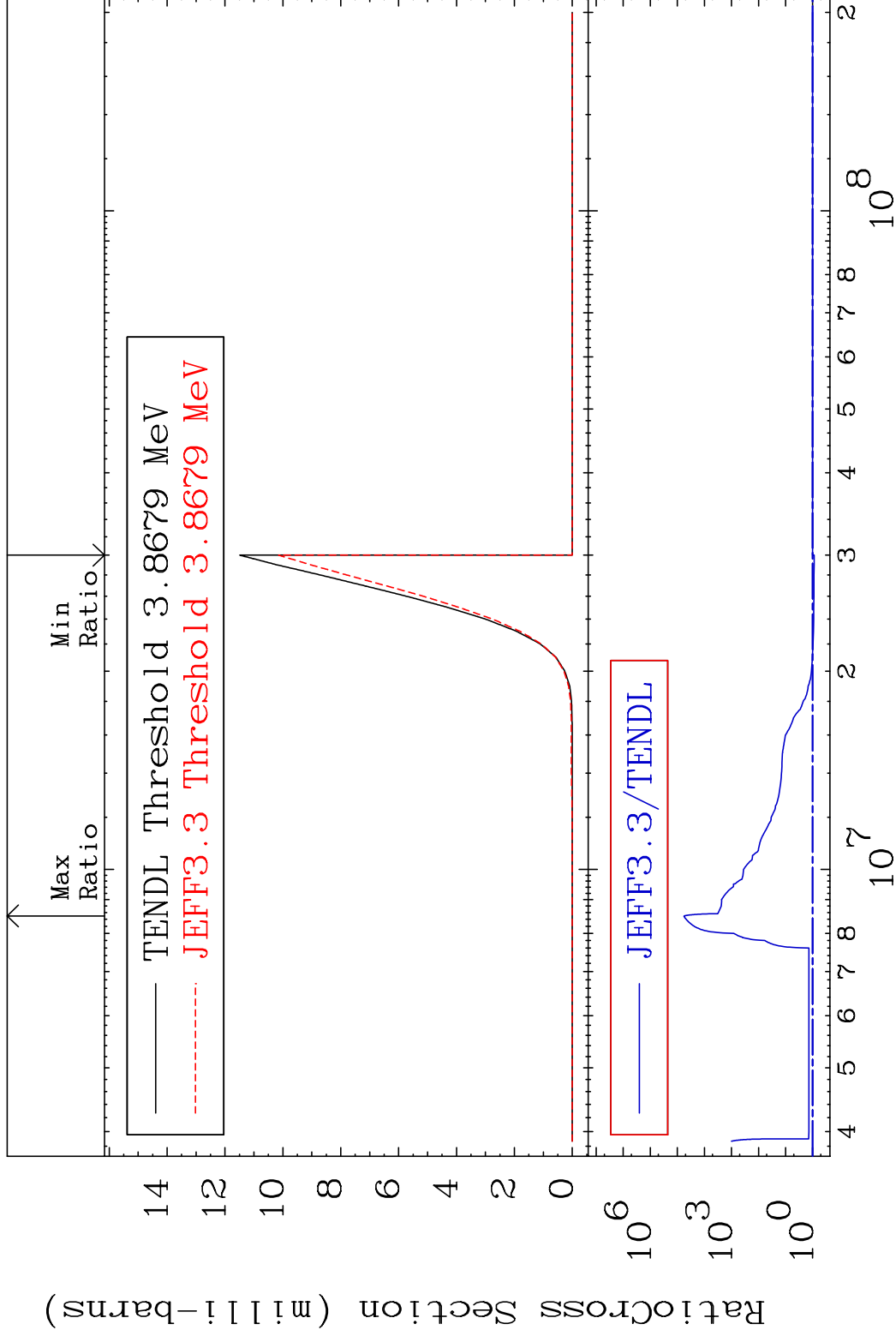
58-Ce-143

MAT 5846

(n,2n) α

58-Ce-143

Cross Section -11.65 To 9999. %

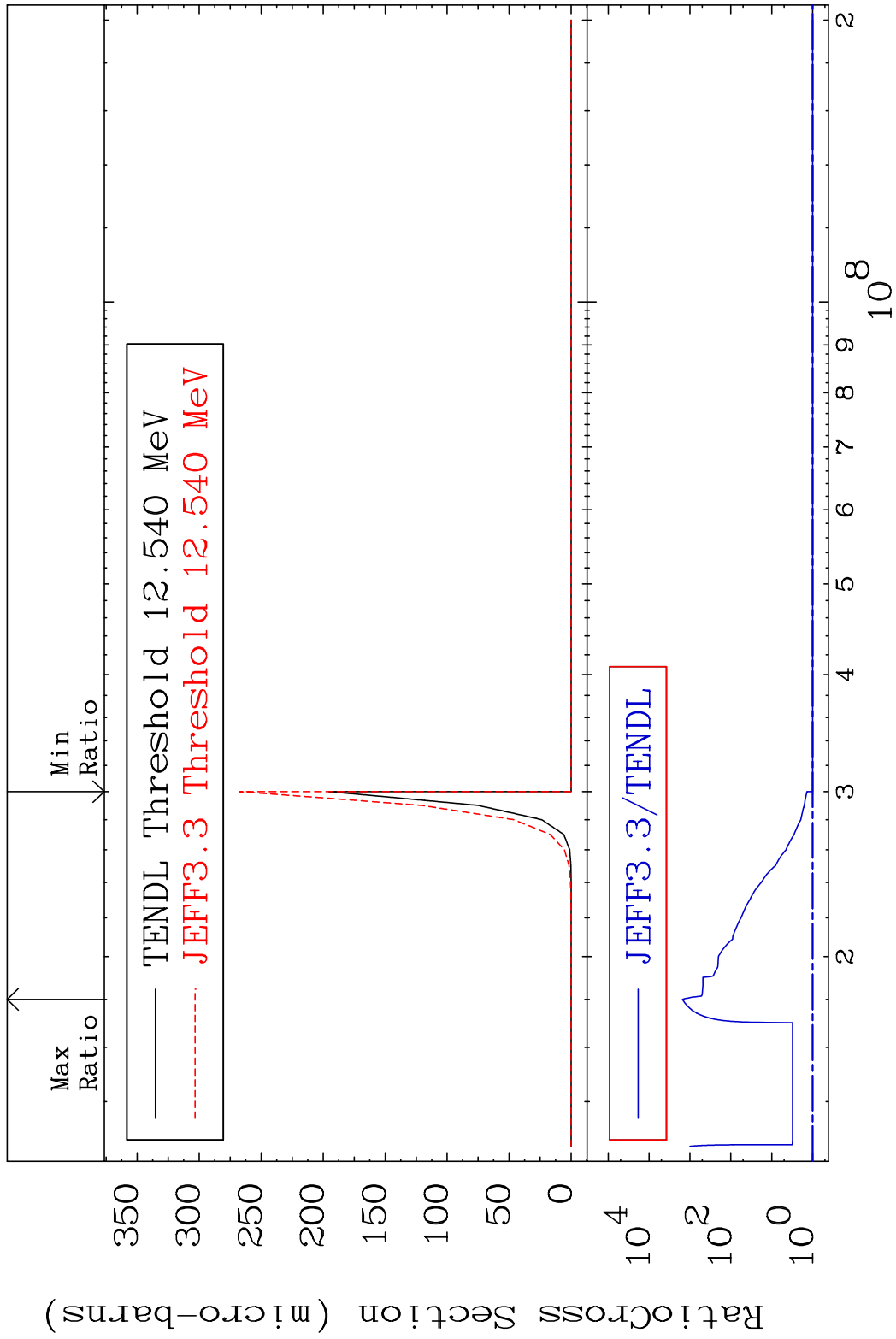


MAT 5846

(n,3n) α

58-Ce-143

Cross Section 0.000 To 9999. %

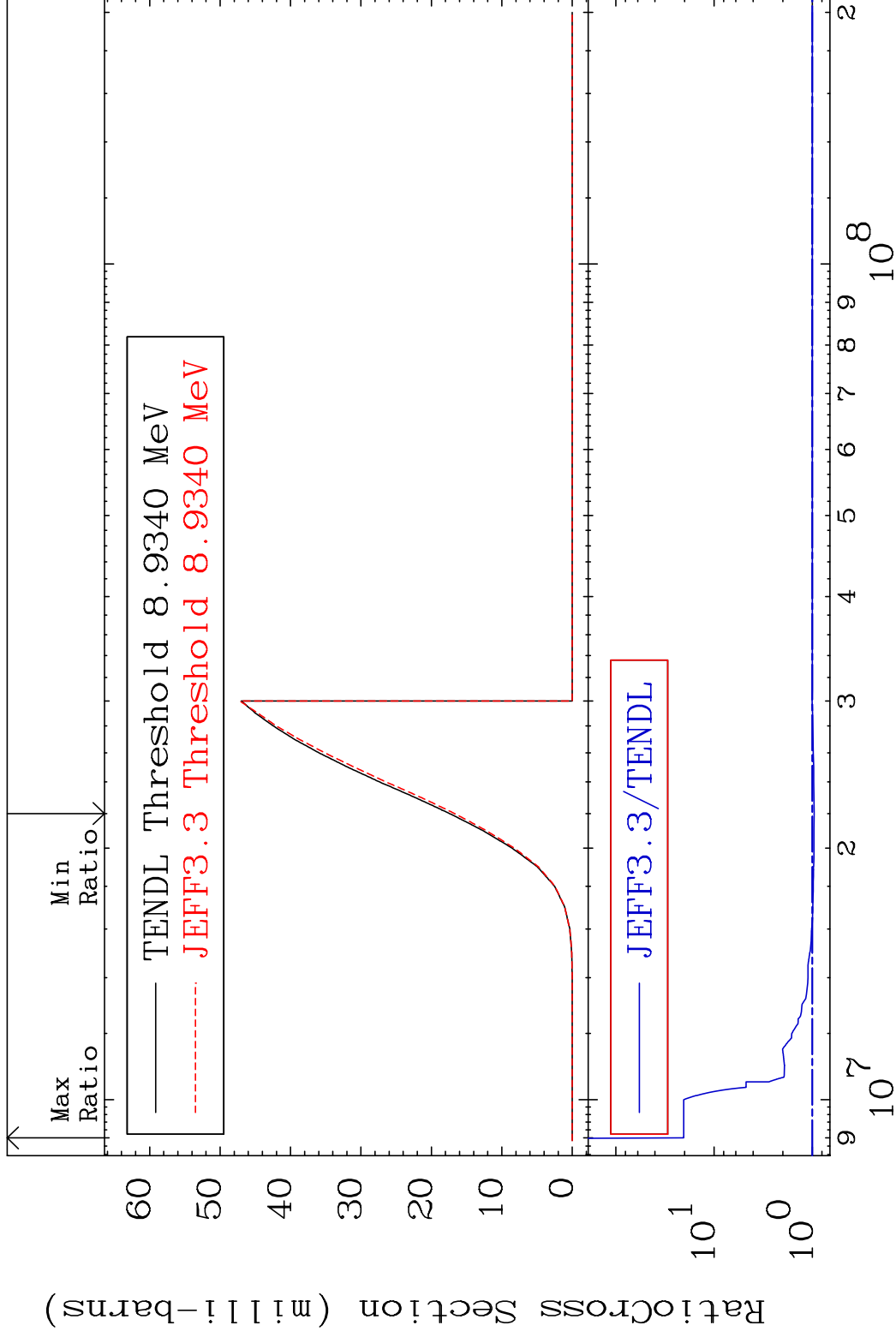


MAT 5846

(n, n') p

58-Ce-143

Cross Section -4.073 To 1942. %

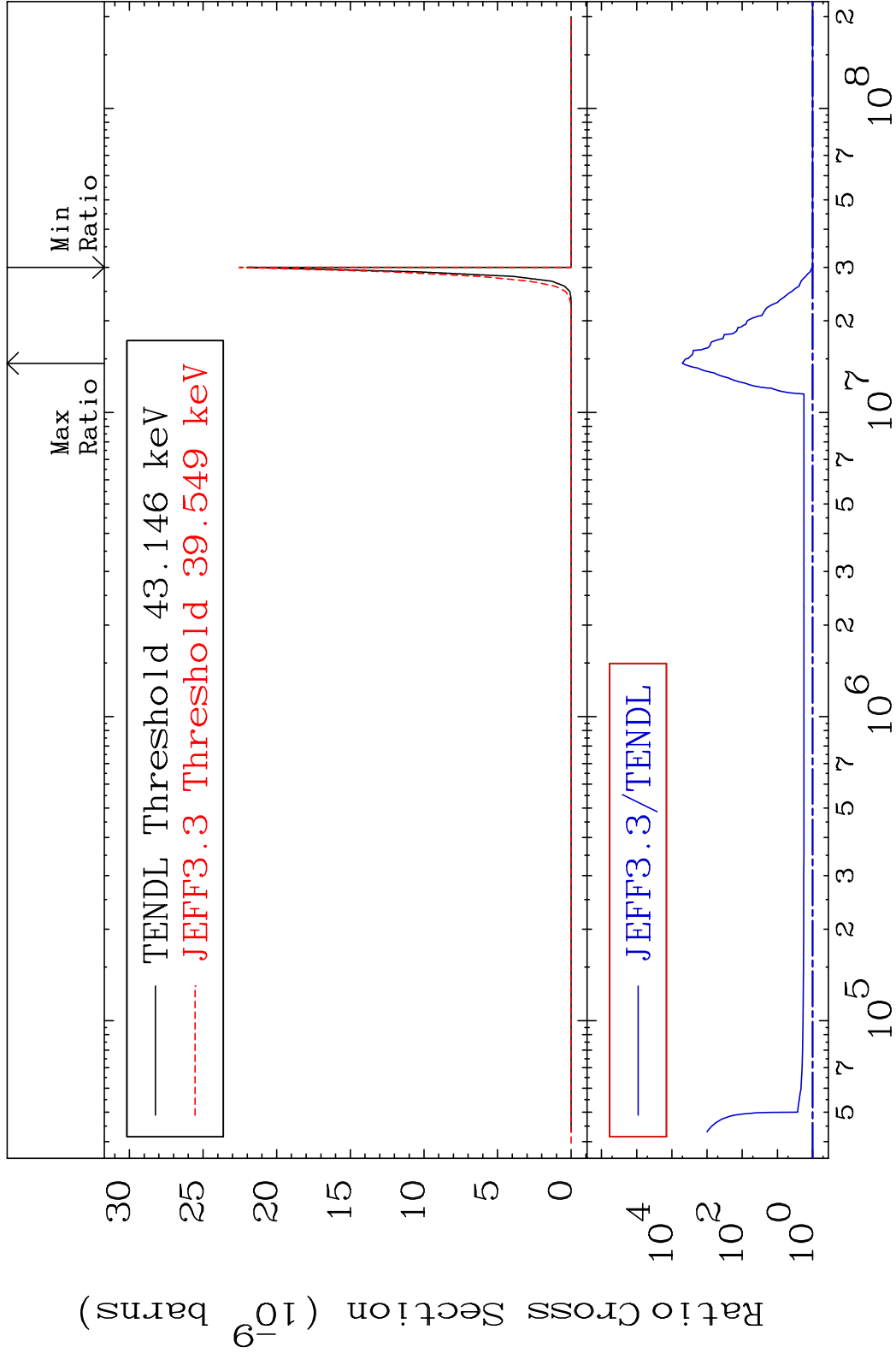


10

Incident Energy (eV)

58-Ce-143

MAT 5846 (n, n') 2α 58-Ce-143
 Cross Section 0.000 To 9999. %

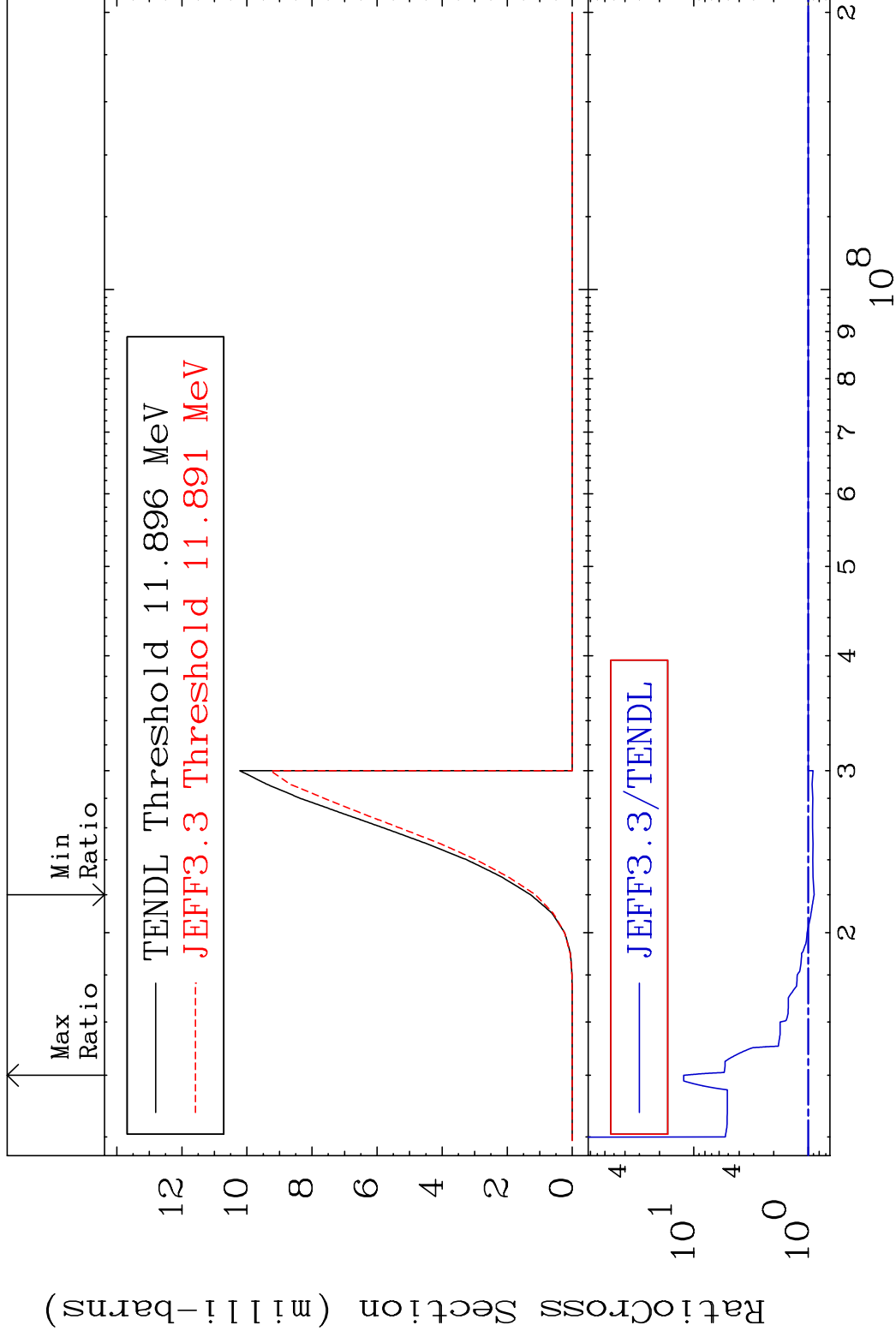


MAT 5846

(n, n') d

58-Ce-143

Cross Section -11.29 To 1127. %

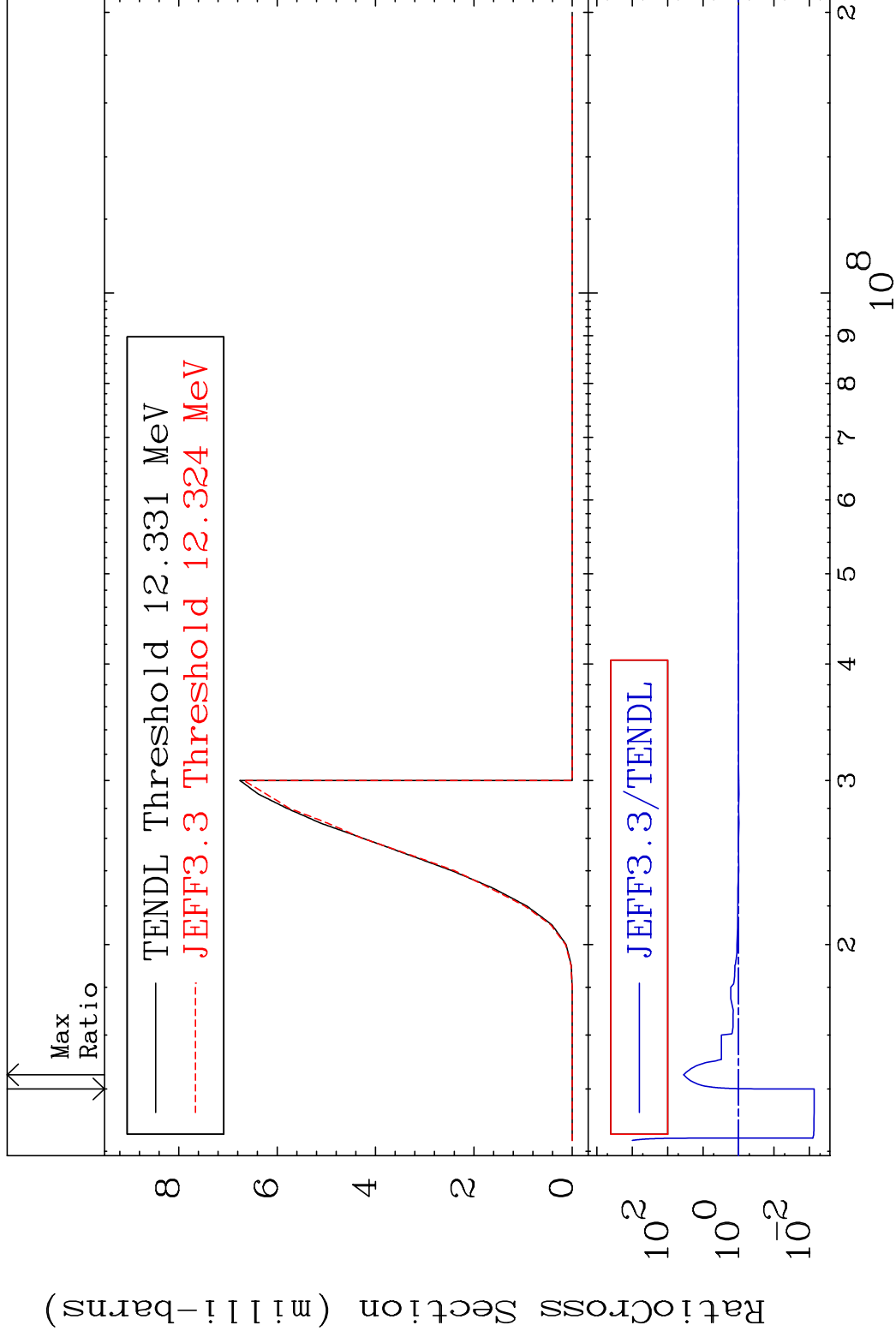


MAT 5846

(n, n') t

58-Ce-143

Cross Section -99.27 To 3431. %



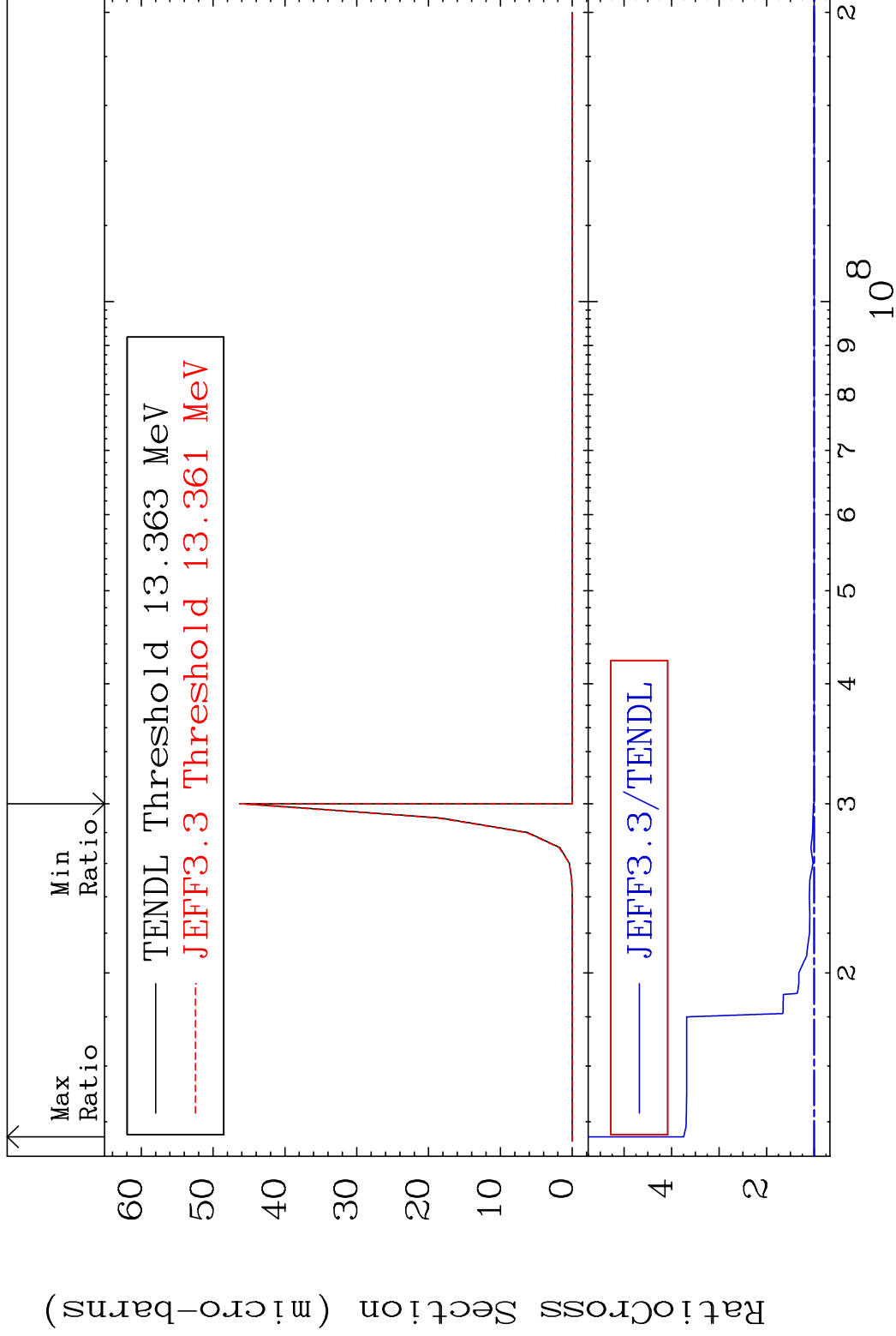
MAT 5846

(n,n') He-3

58-Ce-143

Cross Section 0.000

To 274.5 %

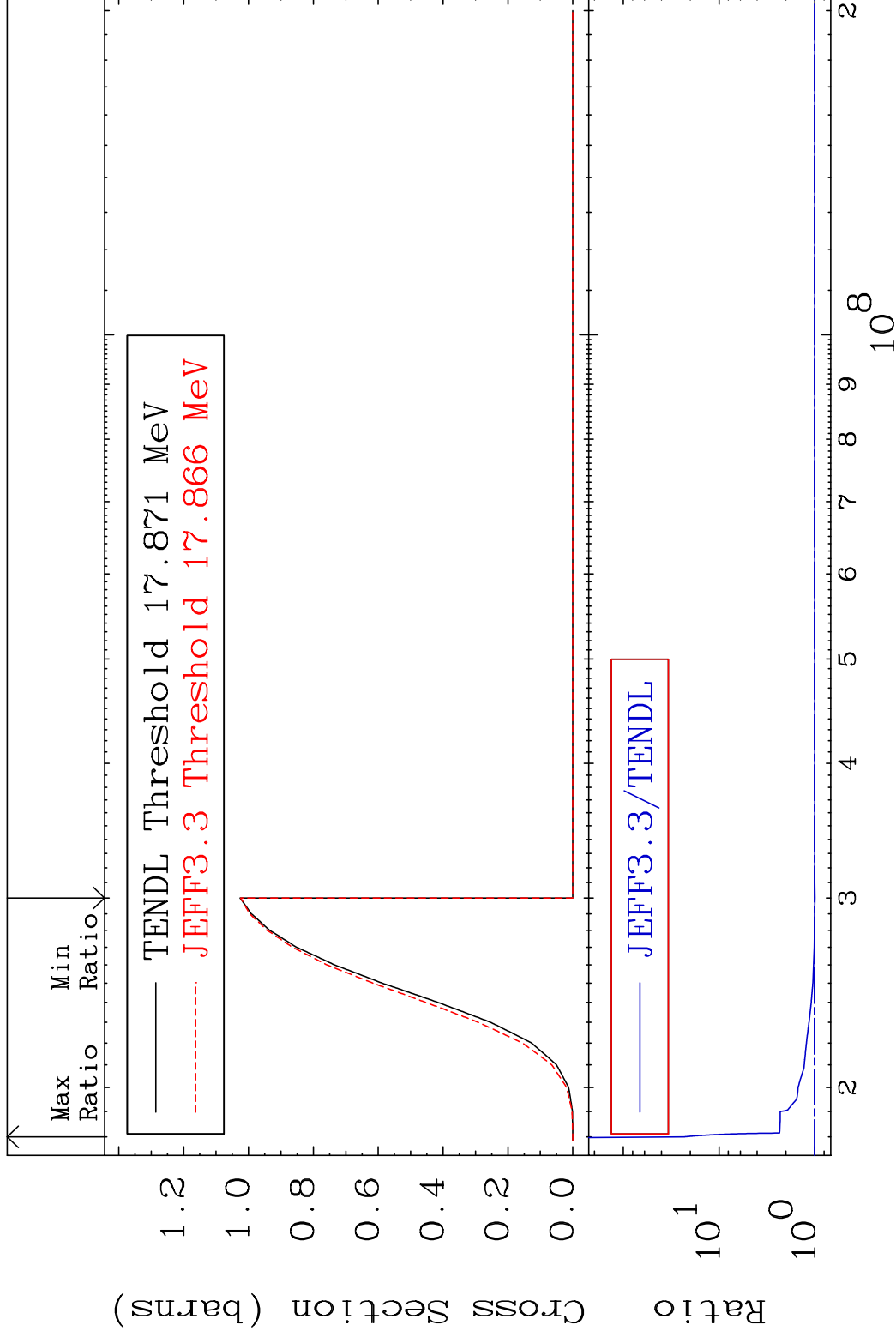


MAT 5846

(n,4n)

58-Ce-143

Cross Section -0.194 To 2208. %

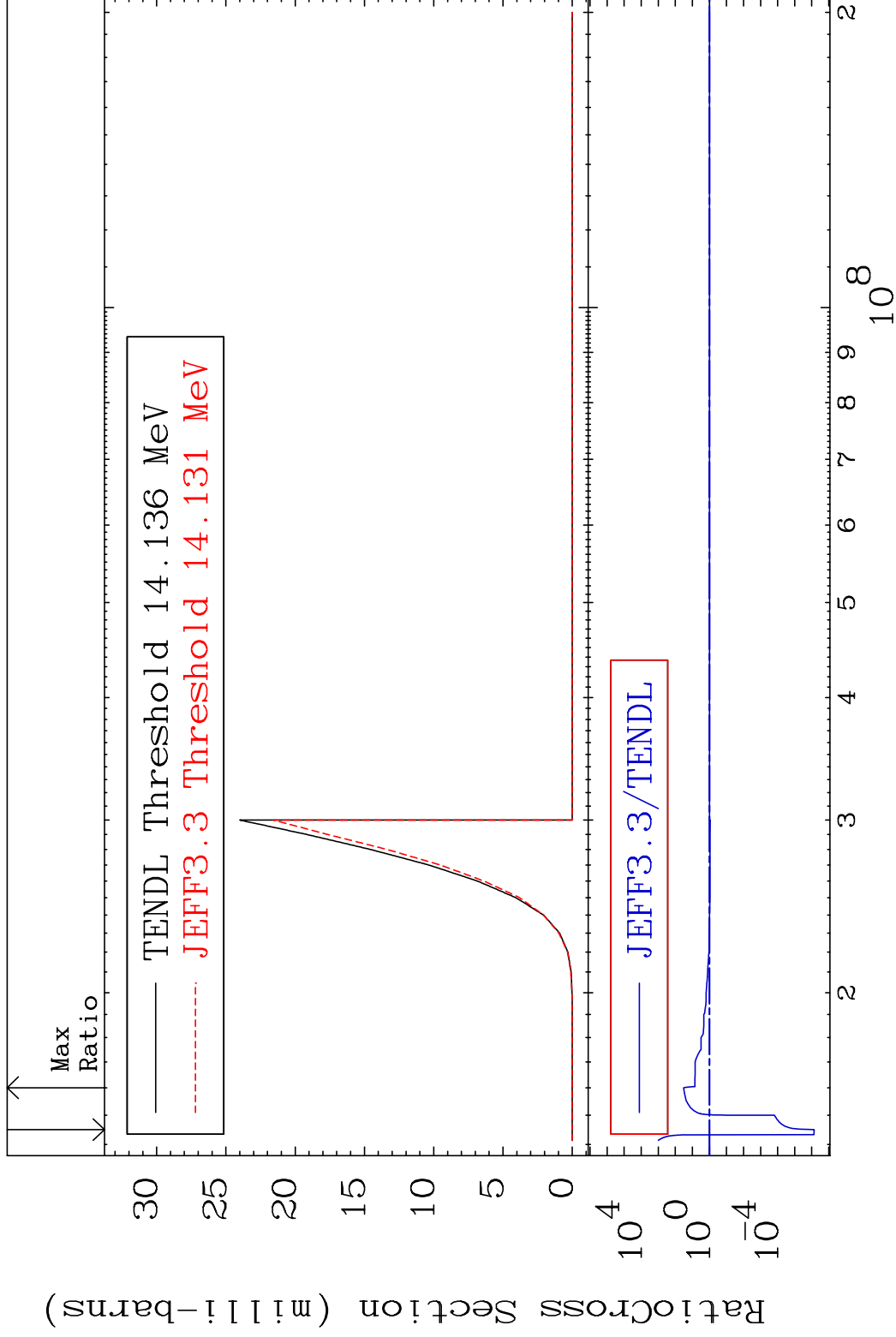


MAT 5846

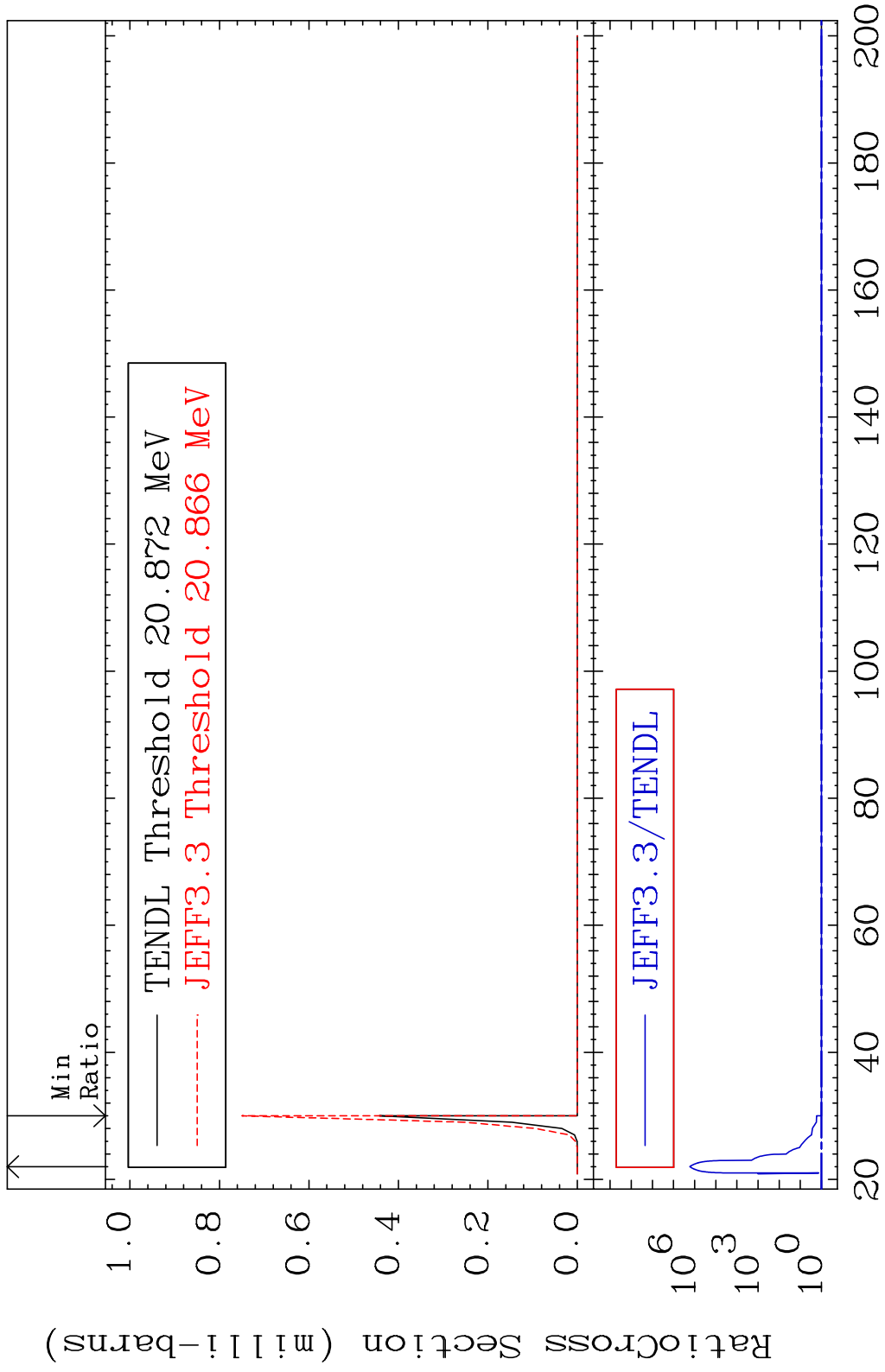
(n,2n) p

58-Ce-143

Cross Section -100.0 To 3142. %



MAT 5846 (n,3n) p 58-Ce-143
 Cross Section 0.000 To 9999. %



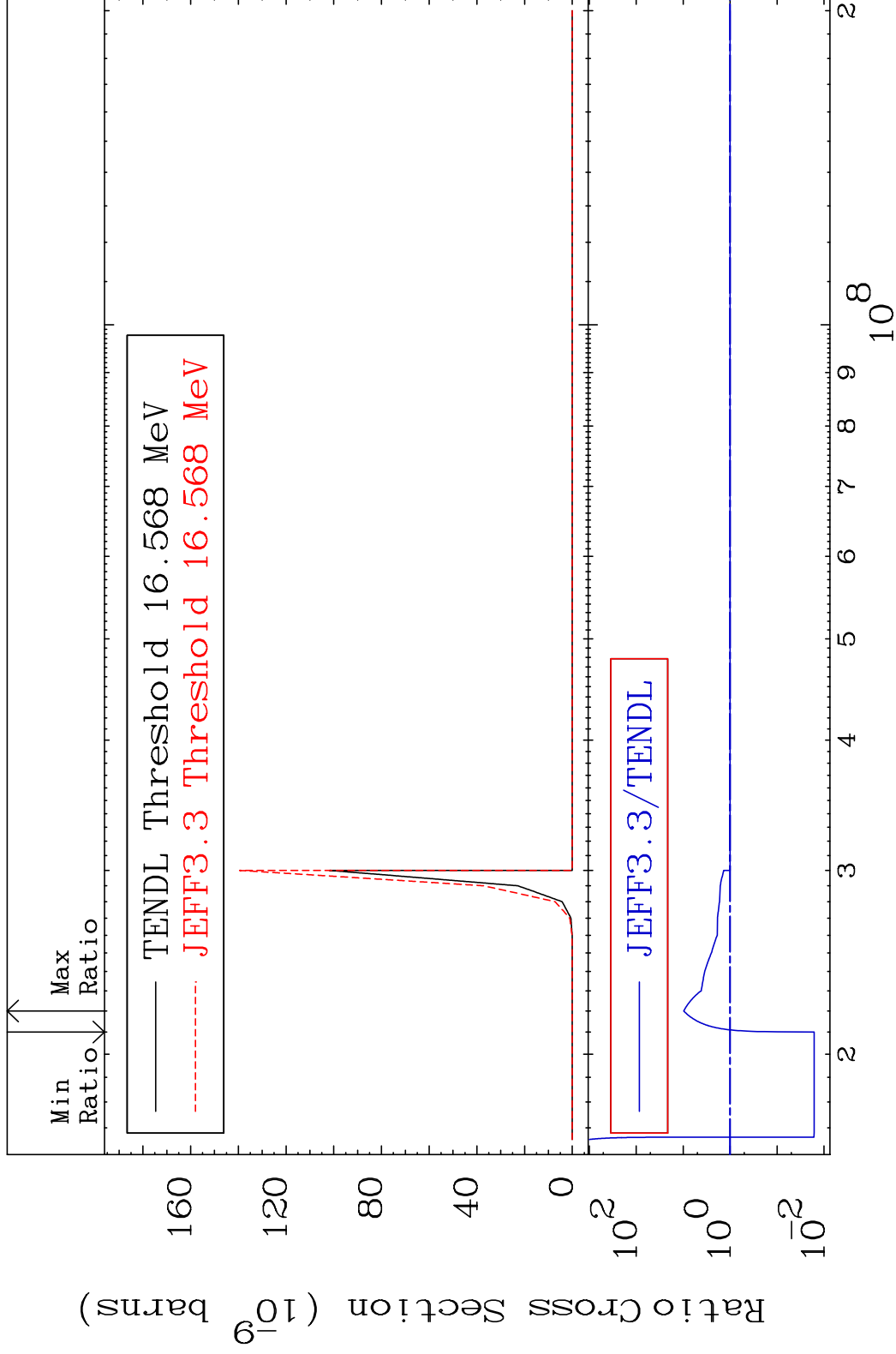
MAT 5846

(n,2n) p

58-Ce-143

Cross Section

-98.37 To 876.1 %



18

Incident Energy (eV)

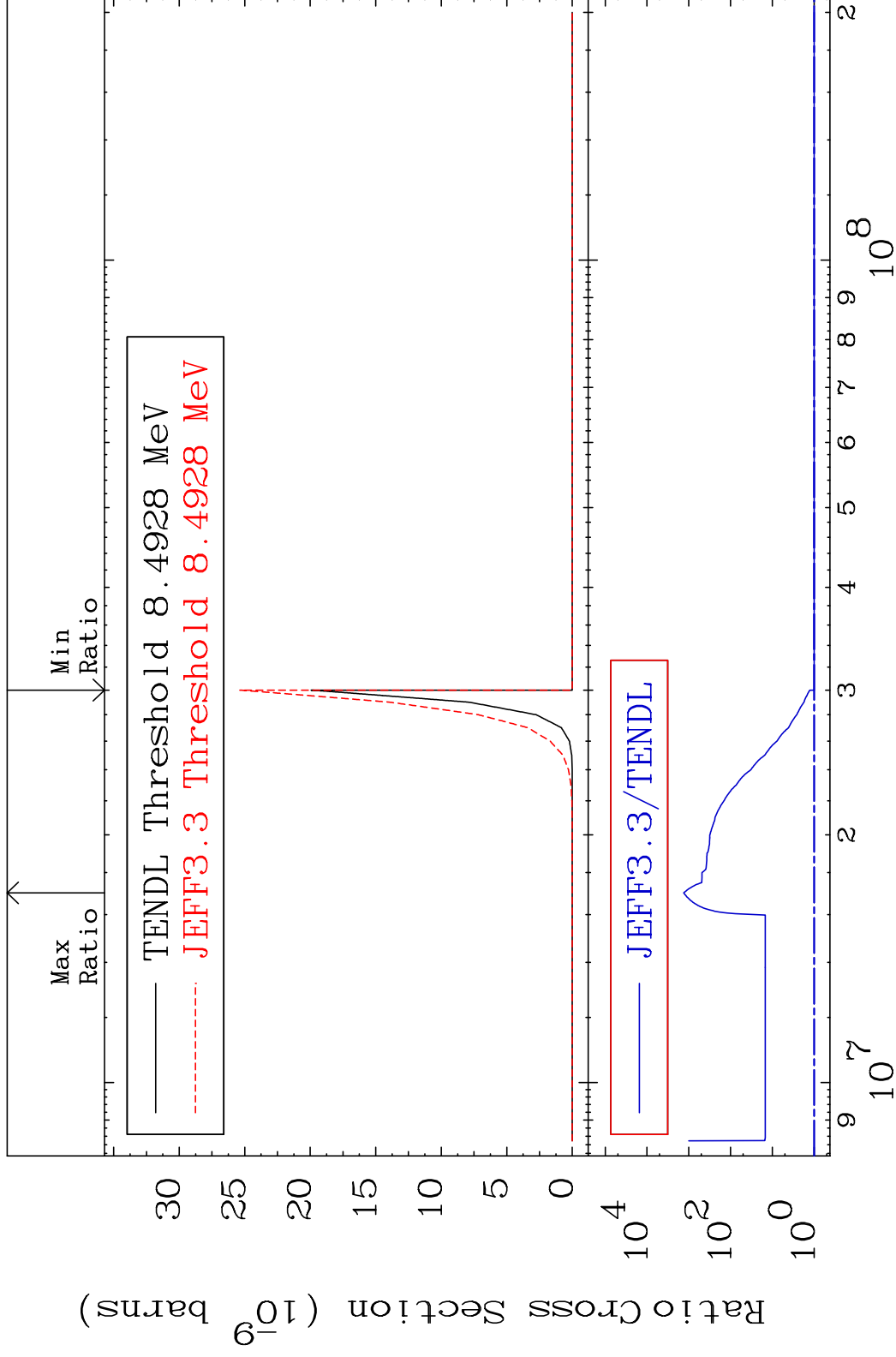
58-Ce-143

MAT 5846

(n, n') p α

58-Ce-143

Cross Section 0.000 To 9999. %



19

Incident Energy (eV)

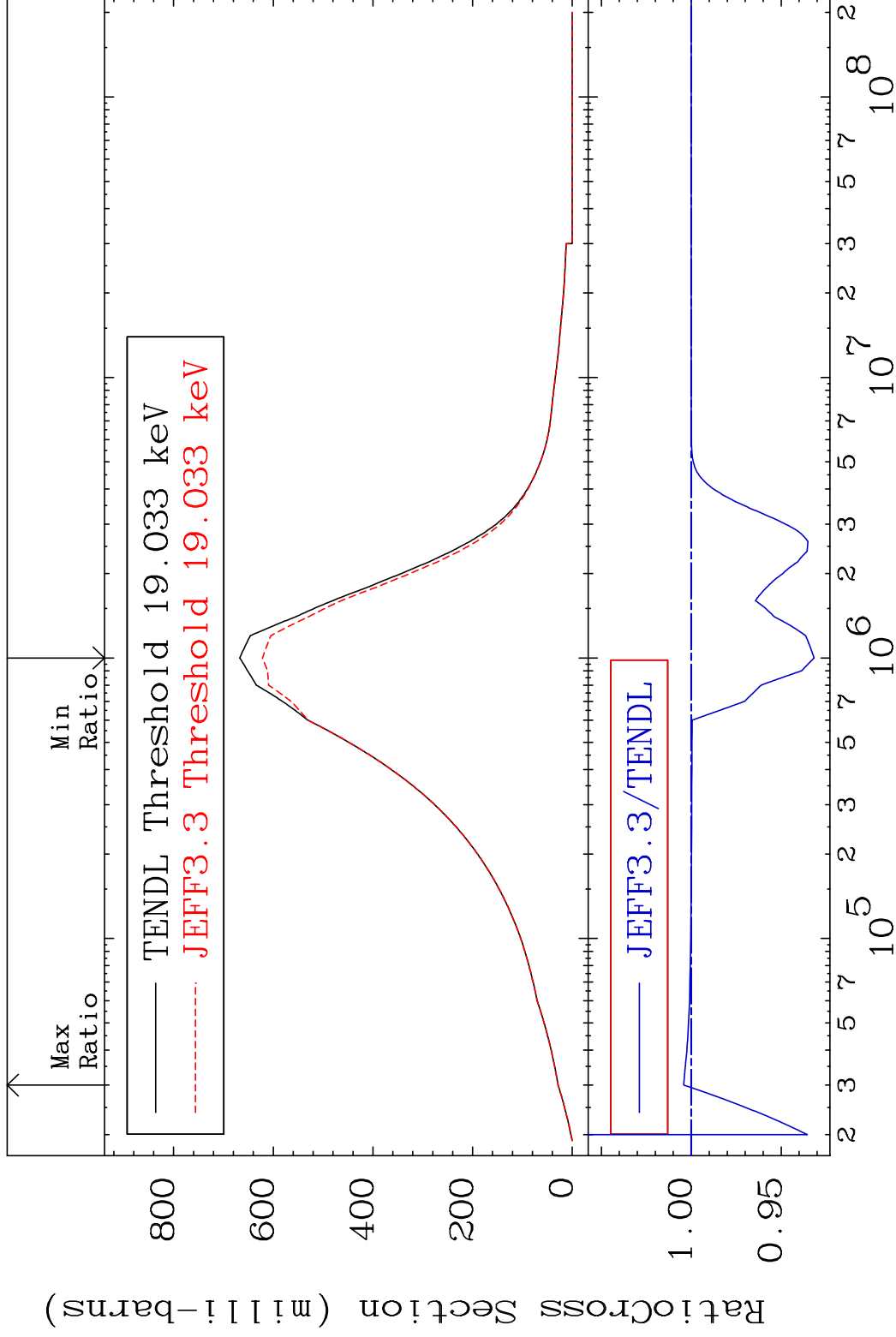
58-Ce-143

MAT 5846

MT= 51 (n, n') Level

58-Ce-143

Cross Section -6.829 To 0.424 %

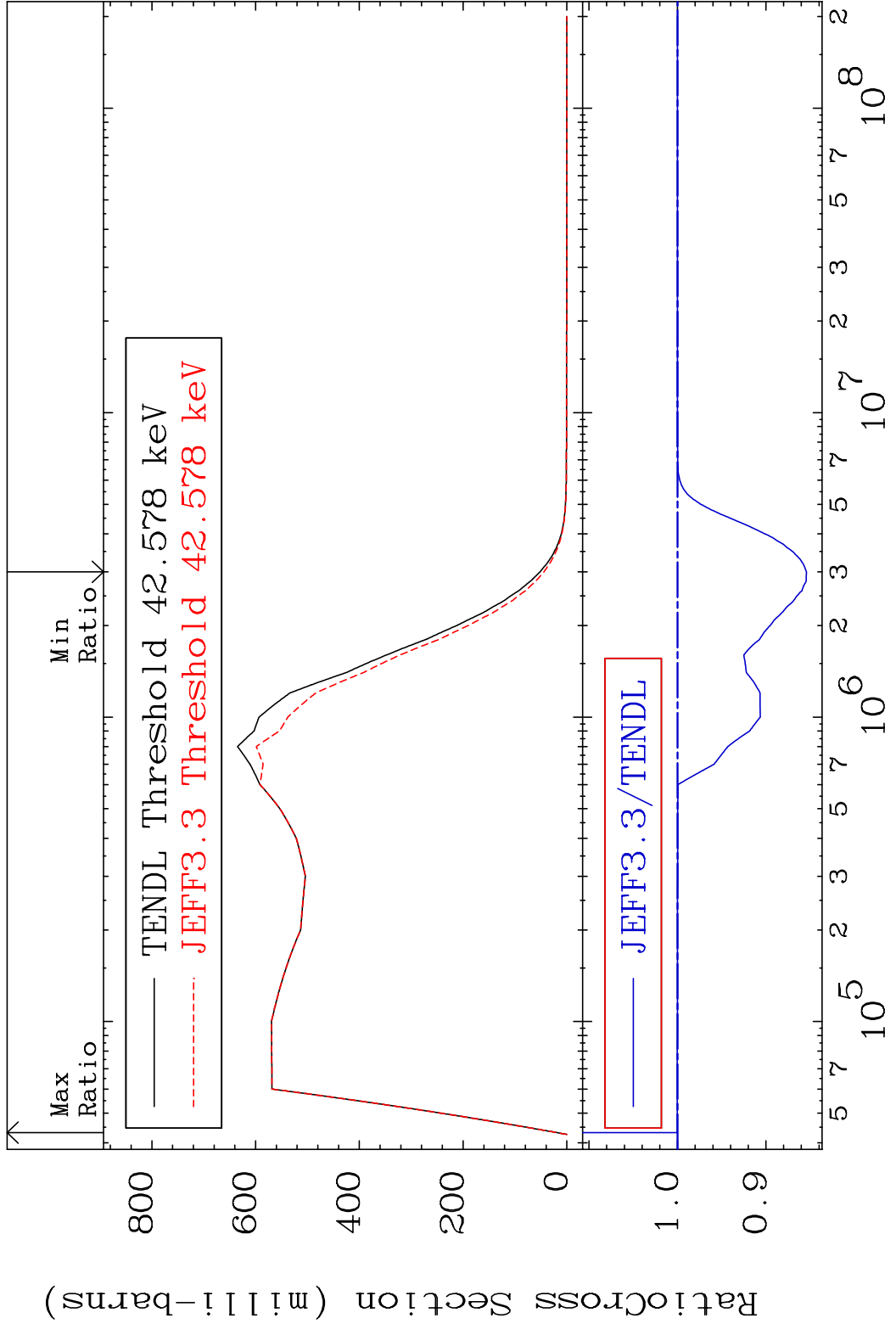


20

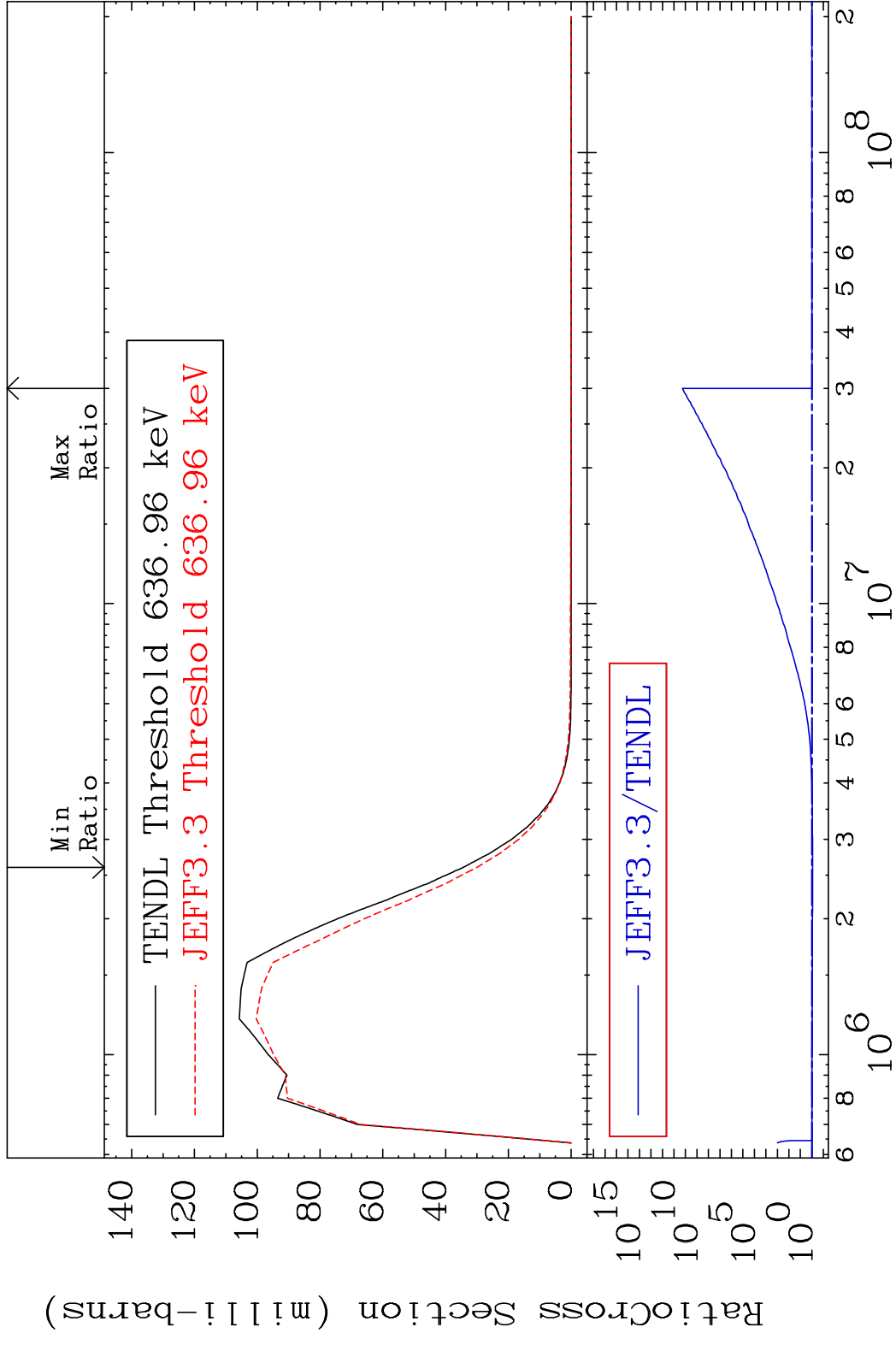
Incident Energy (eV)

58-Ce-143

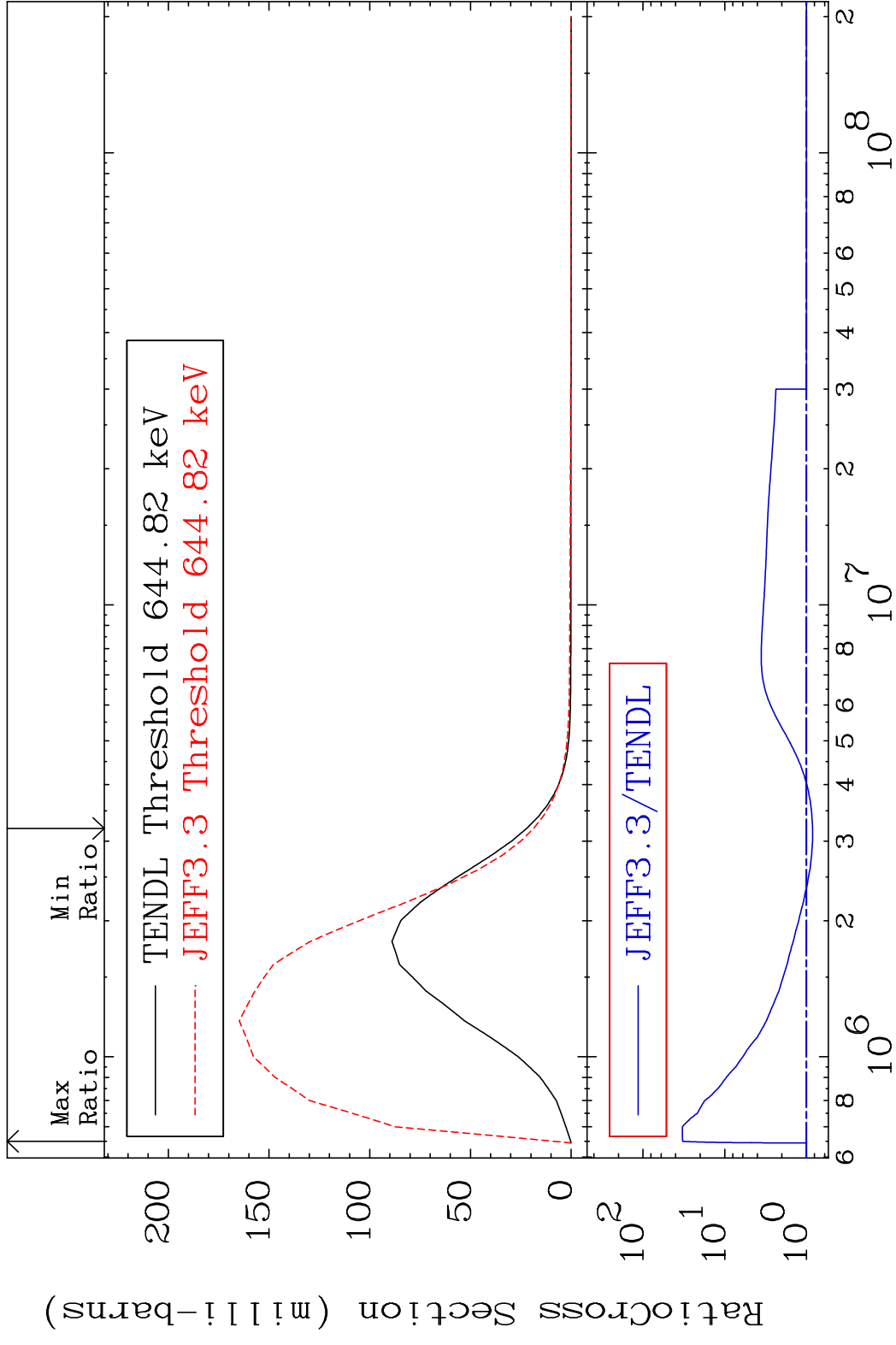
MAT 5846 MT= 52 (n, n') Level 58-Ce-143
 Cross Section -14.57 To 0.034 %



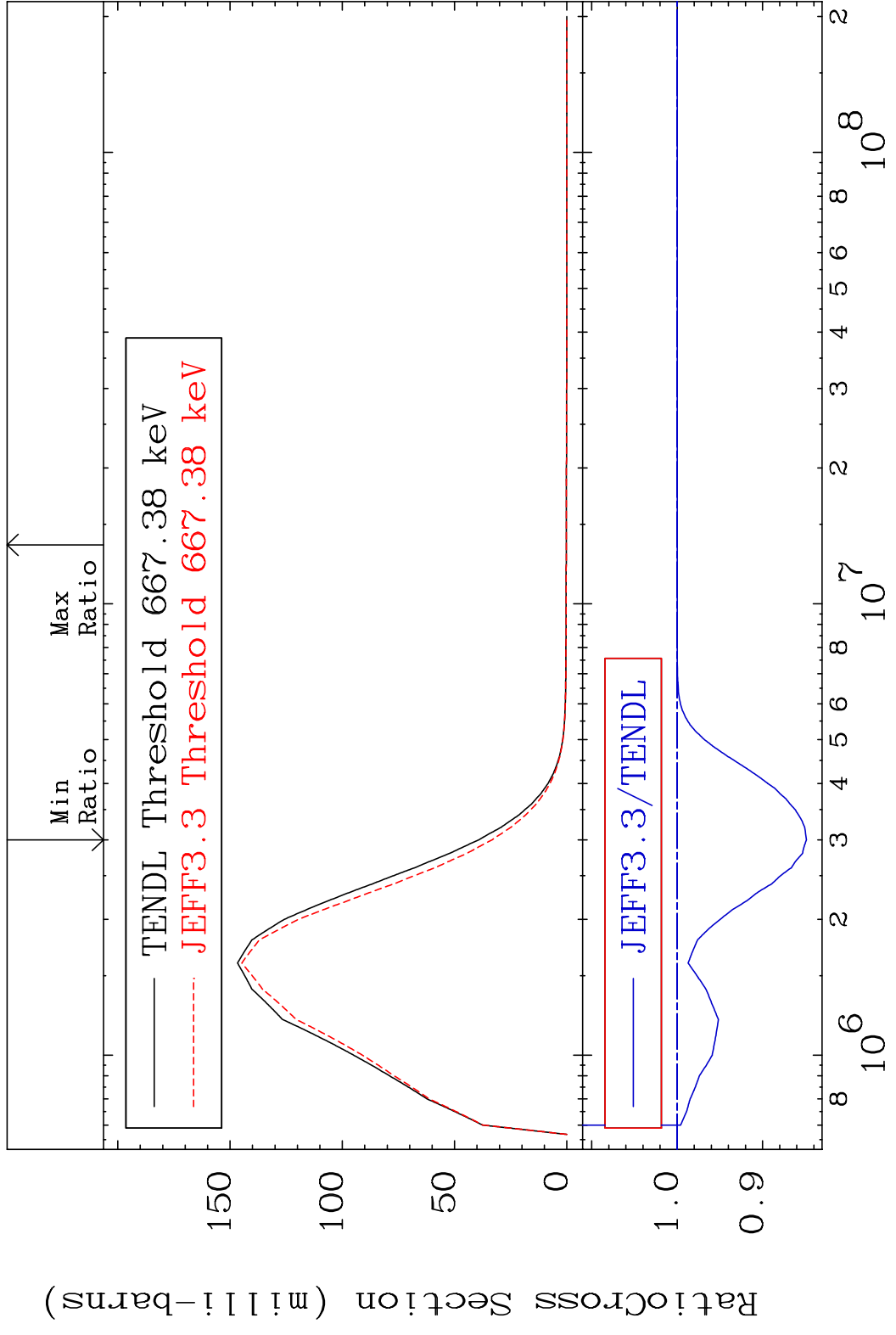
MAT 5846 MT= 53 (n, n') Level 58-Ce-143
 Cross Section -12.77 To 9999. %



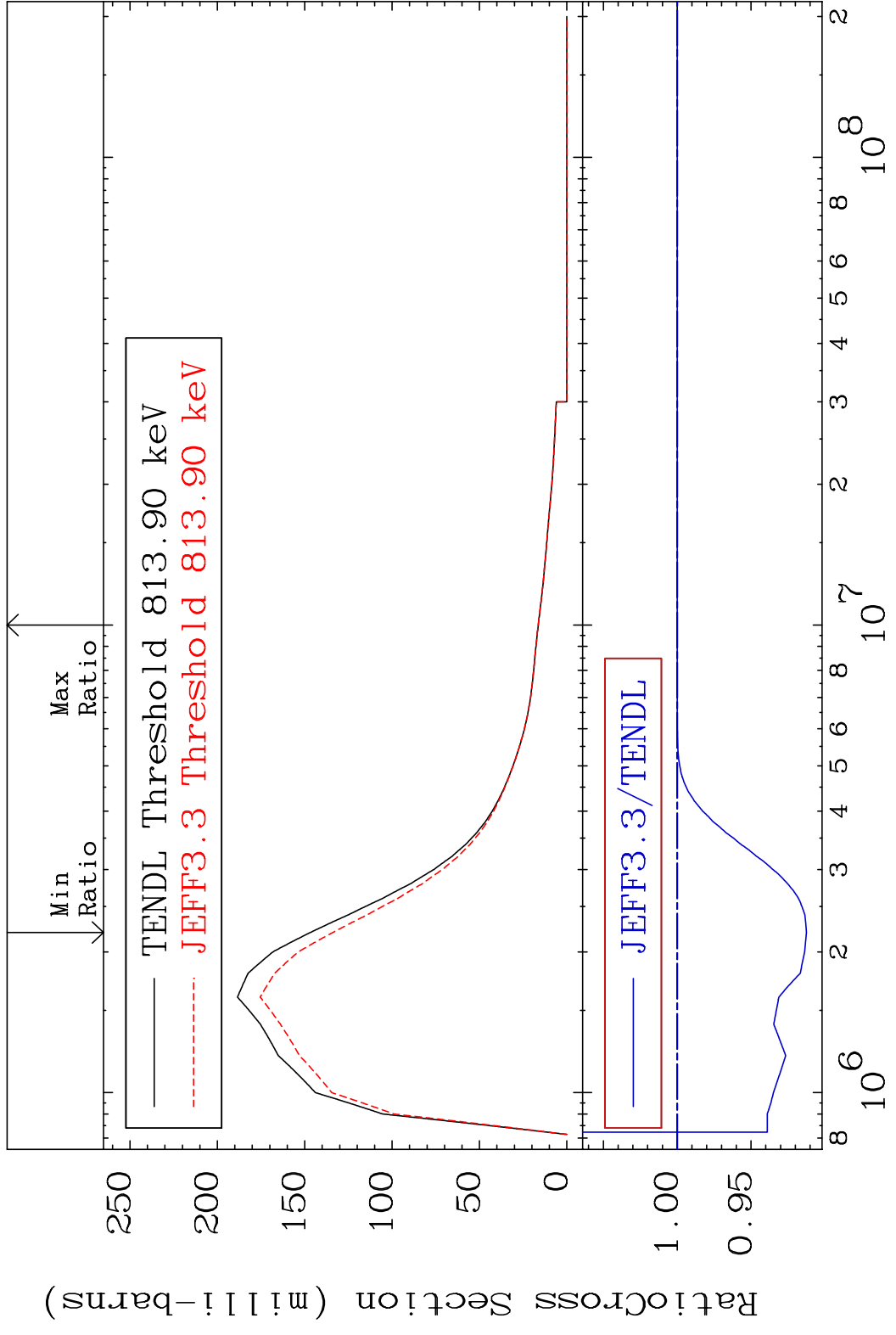
MAT 5846 MT= 54 (n,n') Level 58-Ce-143
 Cross Section -15.60 To 3204. %



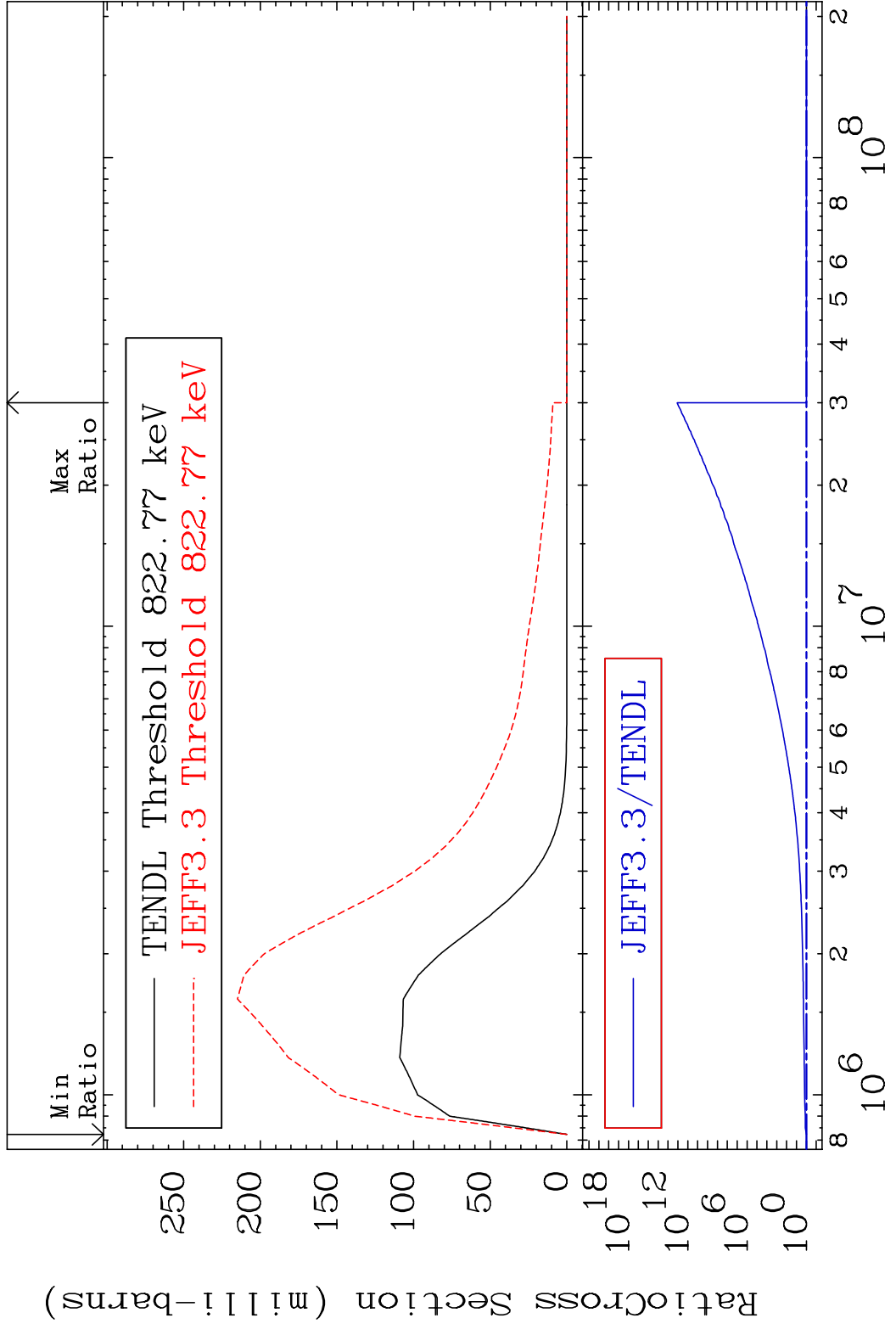
MAT 5846 MT= 55 (n, n') Level 58-Ce-143
 Cross Section -15.13 To 0.000 %



MAT 5846 MT= 56 (n,n') Level 58-Ce-143
 Cross Section -8.748 To 0.000 %

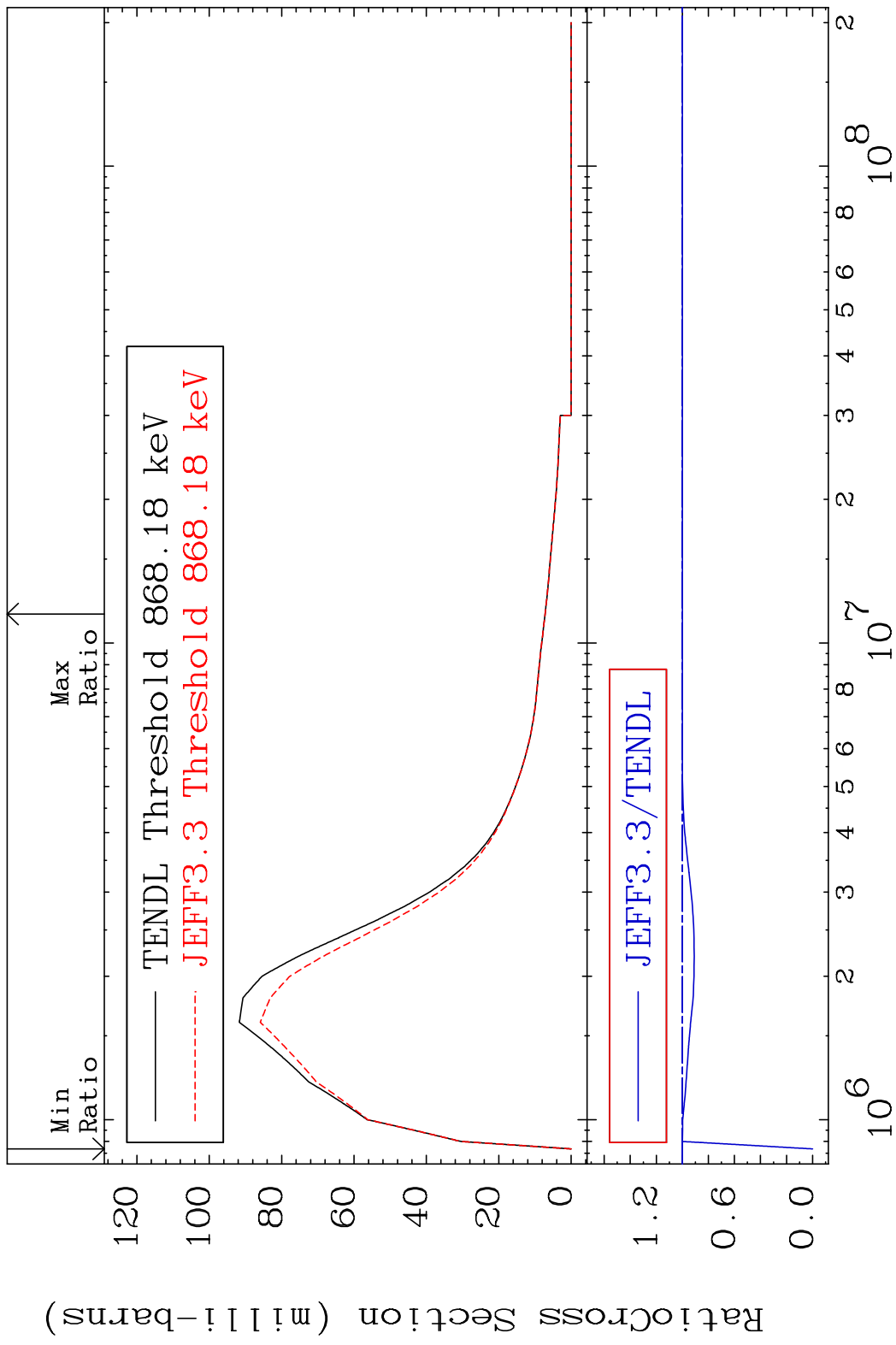


MAT 5846 MT= 57 (n, n') Level 58-Ce-143
 Cross Section 0.000 To 9999. %

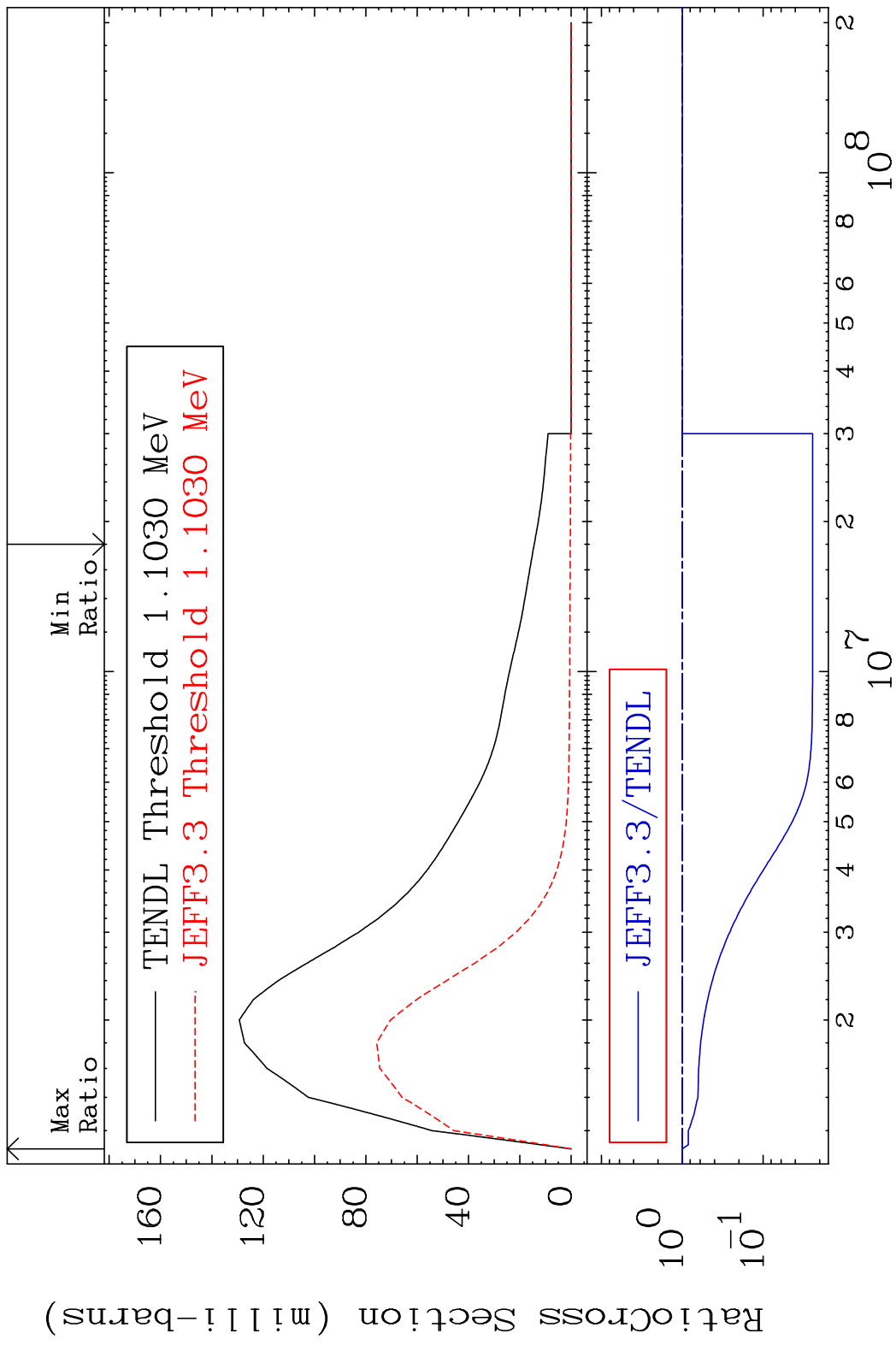


26 Incident Energy (eV) 58-Ce-143

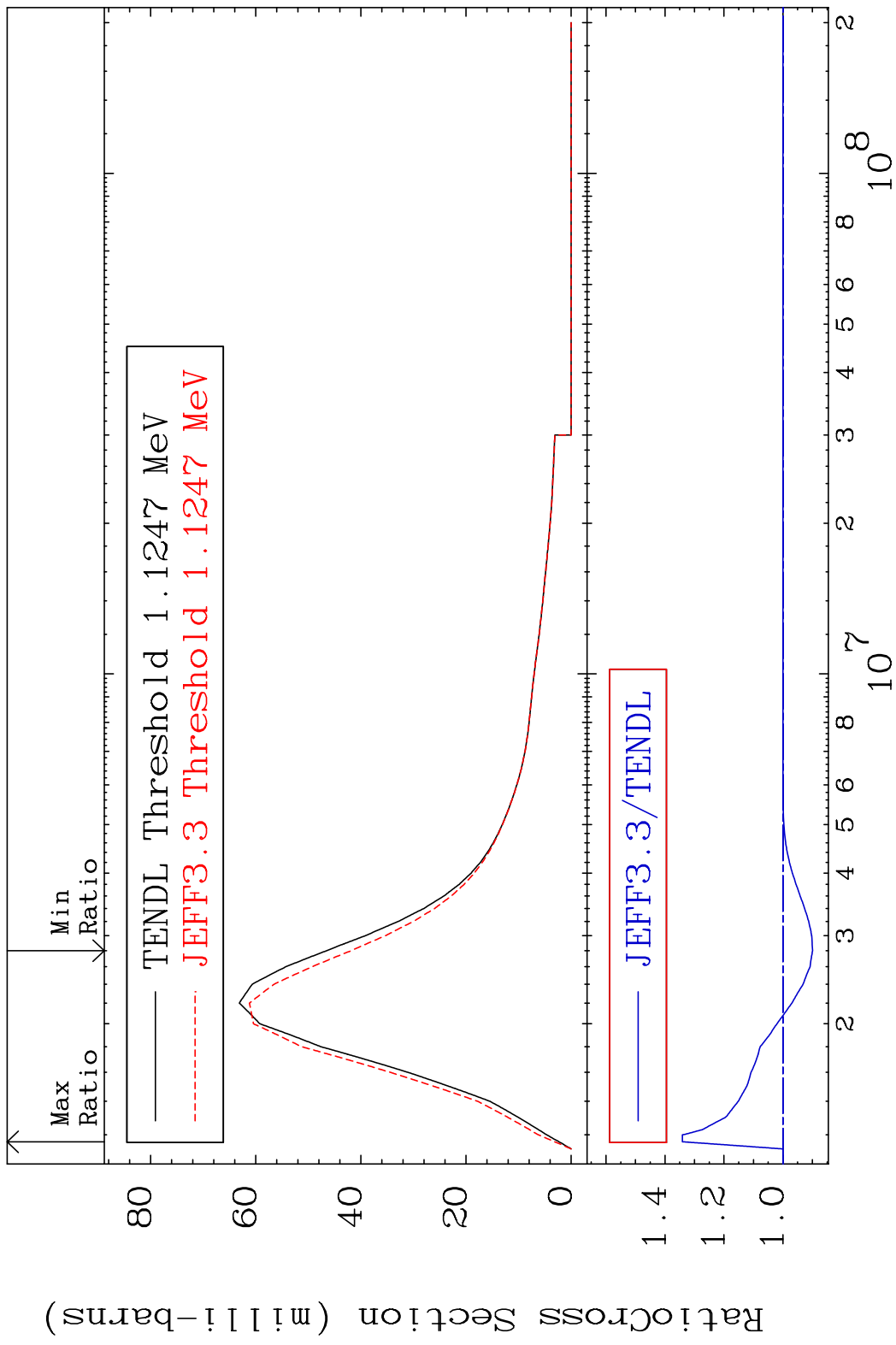
MAT 5846 MT= 58 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 0.000 %



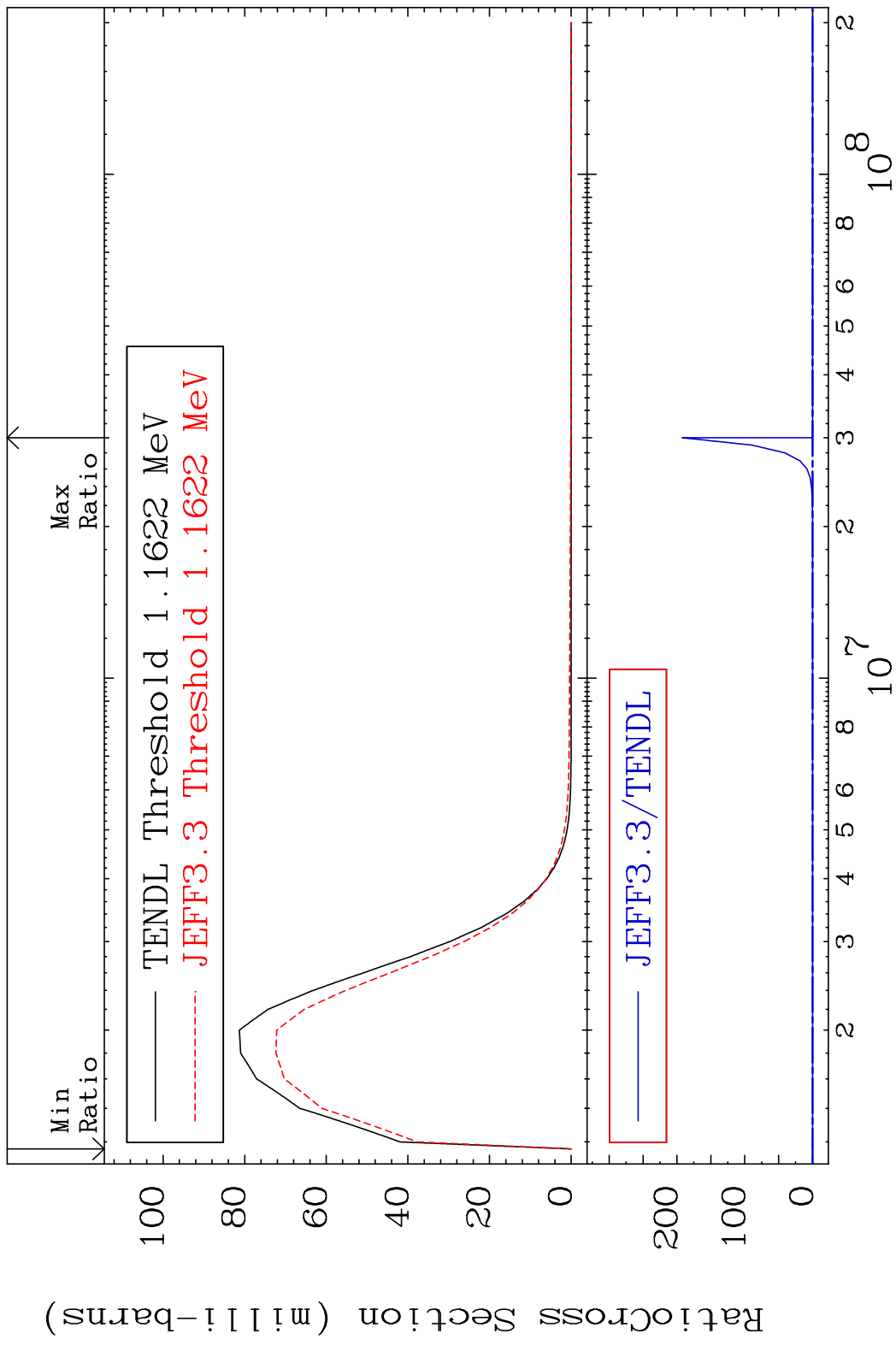
MAT 5846 MT= 59 (n, n') Level 58-Ce-143
 Cross Section -97.55 To 0.000 %



MAT 5846 MT= 60 (n, n') Level 58-Ce-143
 Cross Section -10.05 To 34.11 %



MAT 5846 MT= 61 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 9999. %



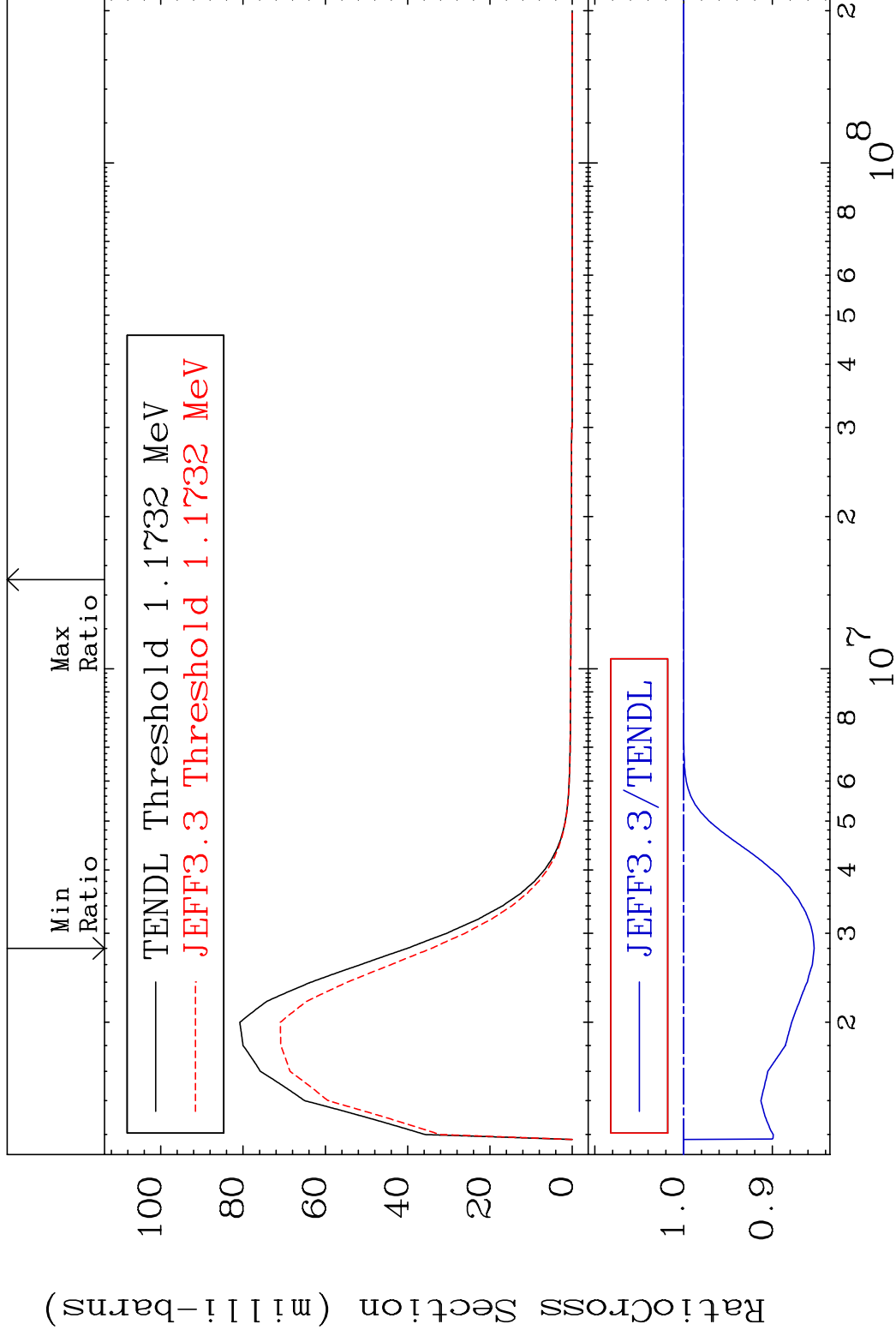
30 Incident Energy (eV) 58-Ce-143

MAT 5846

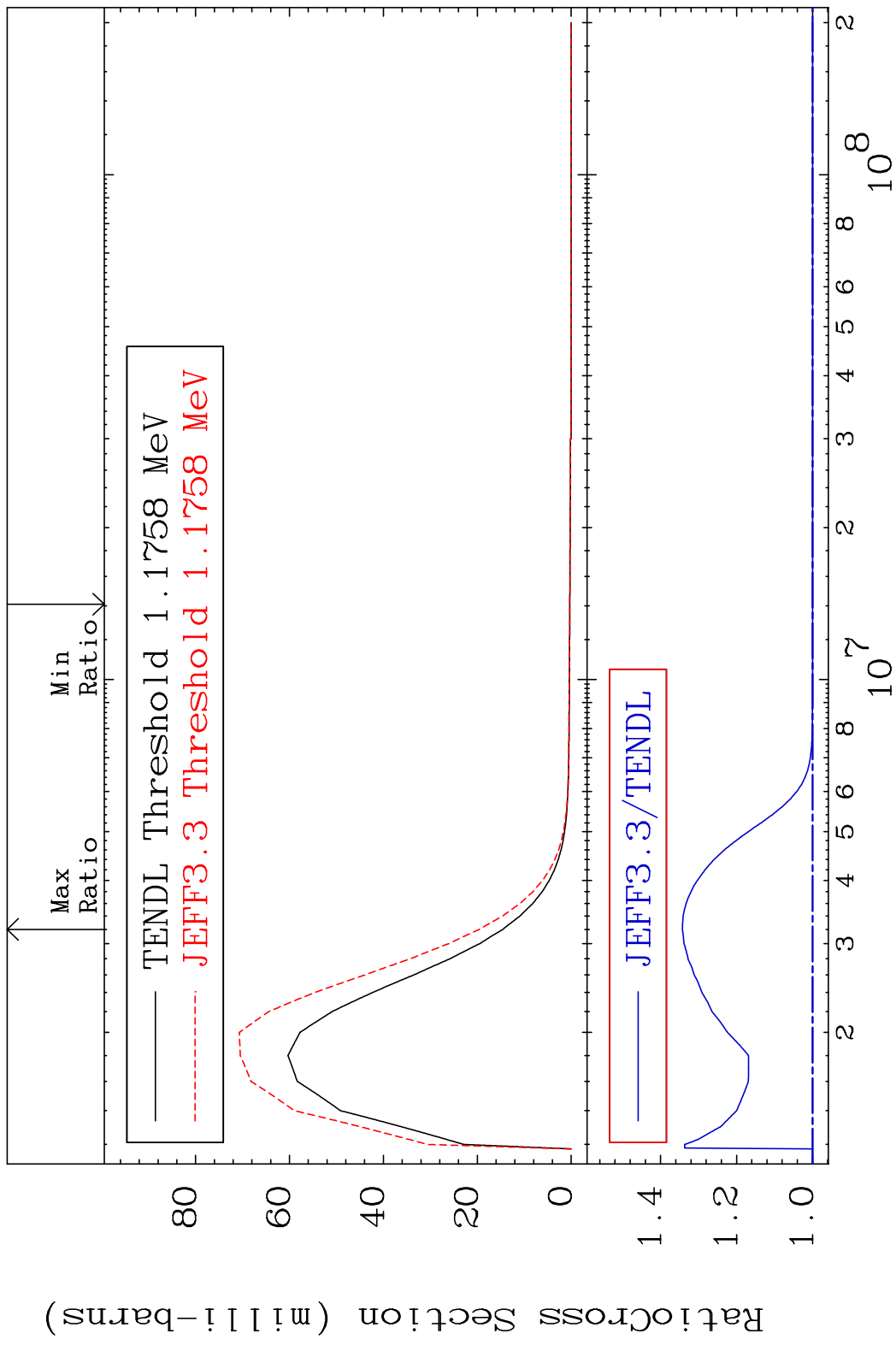
MT= 62 (n, n') Level

58-Ce-143

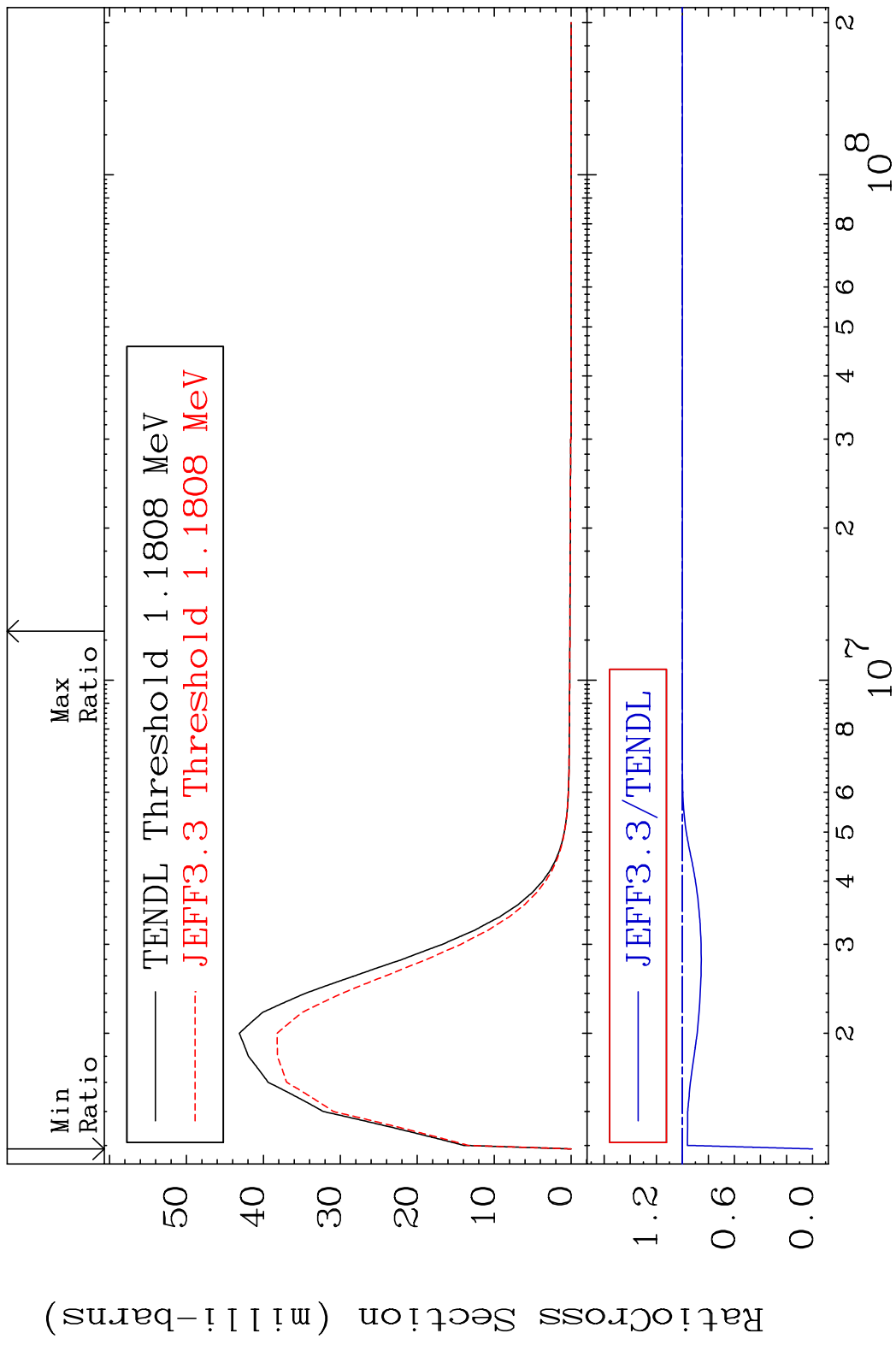
Cross Section -14.70 To 0.000 %



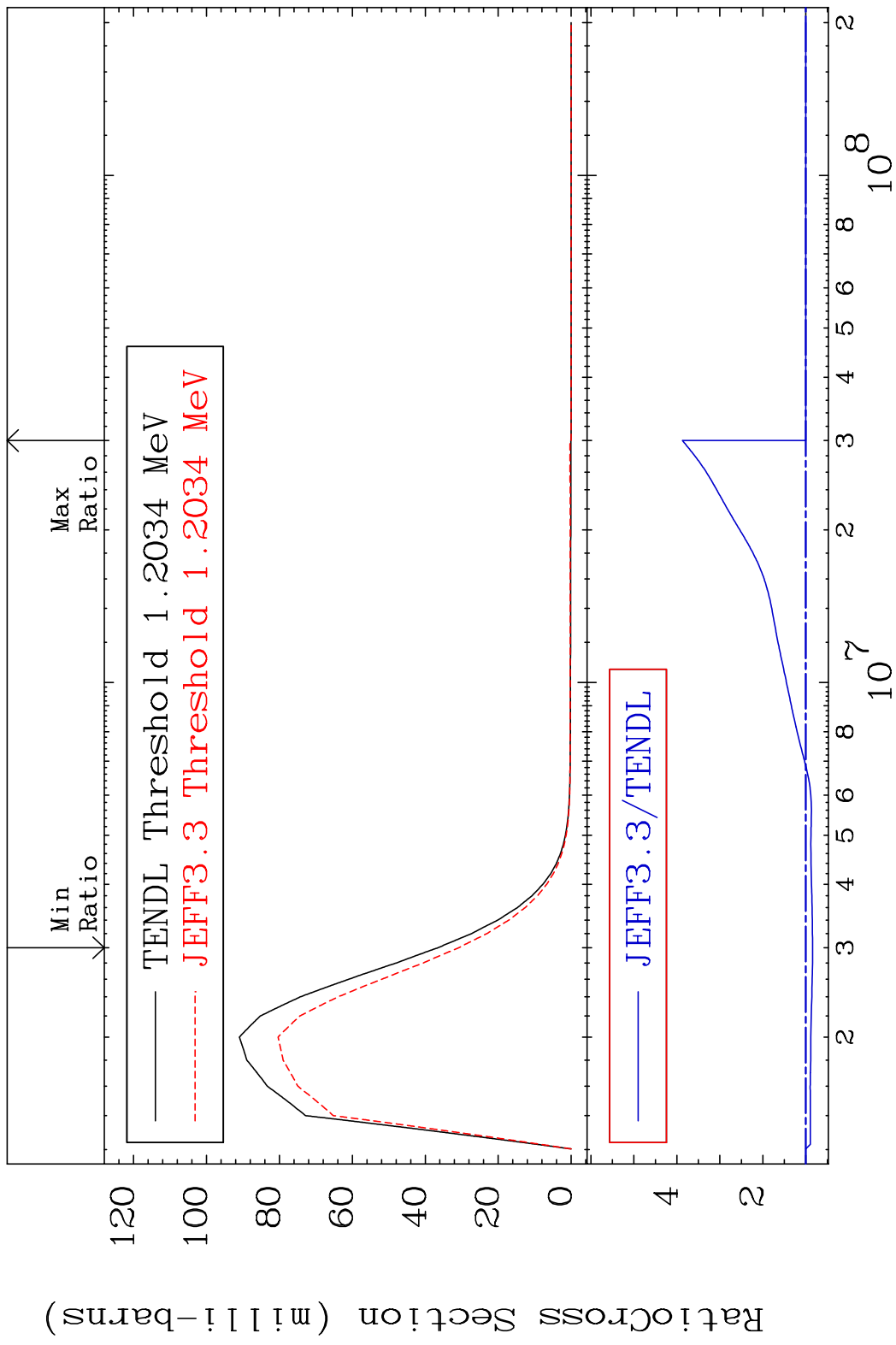
MAT 5846 MT= 63 (n, n') Level 58-Ce-143
 Cross Section 0.000 To 34.27 %



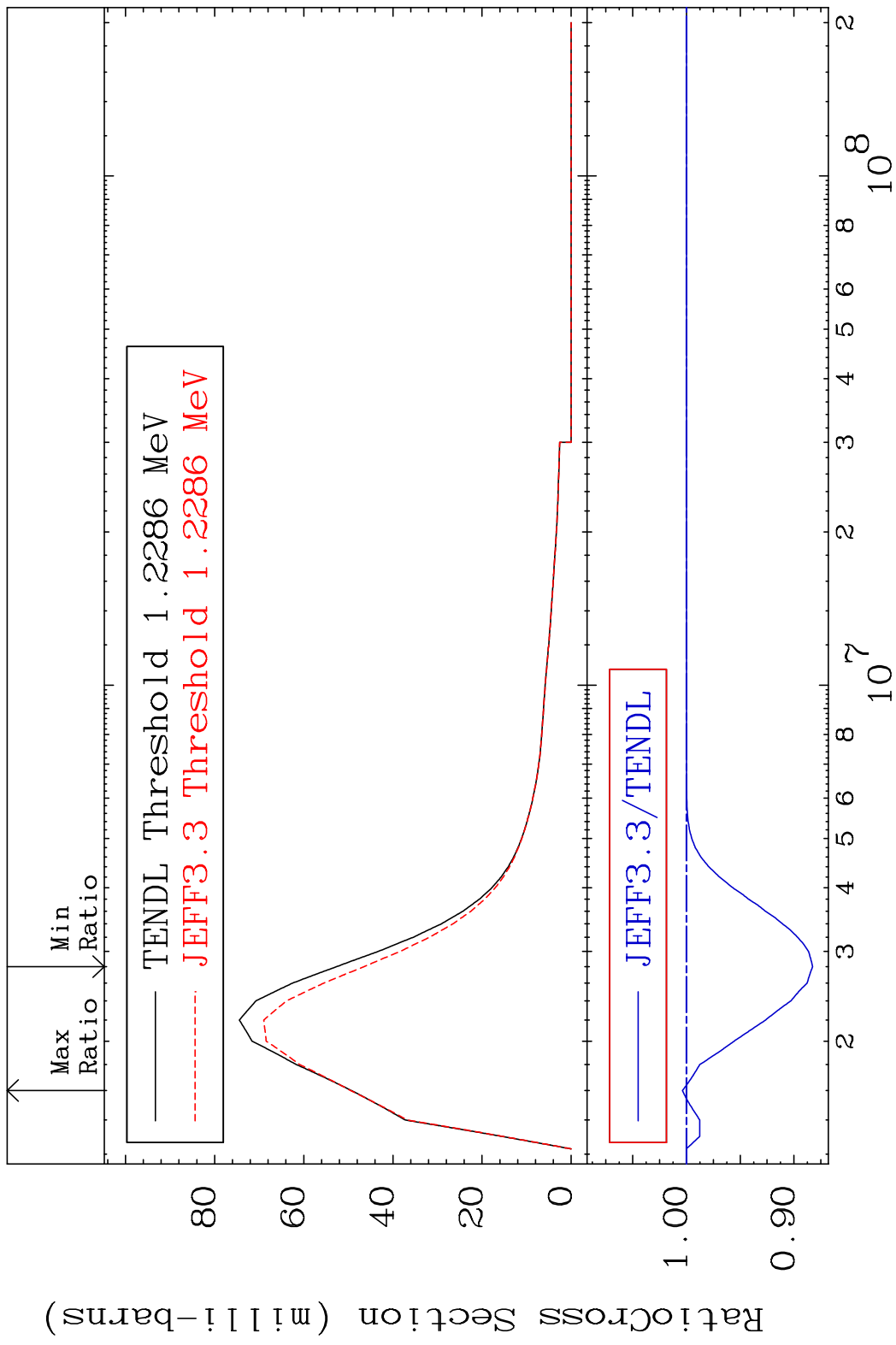
MAT 5846 MT= 64 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 0.000 %



MAT 5846 MT= 65 (n, n') Level 58-Ce-143
 Cross Section -15.56 To 287.3 %



MAT 5846 MT= 66 (n,n') Level 58-Ce-143
 Cross Section -11.73 To 0.380 %

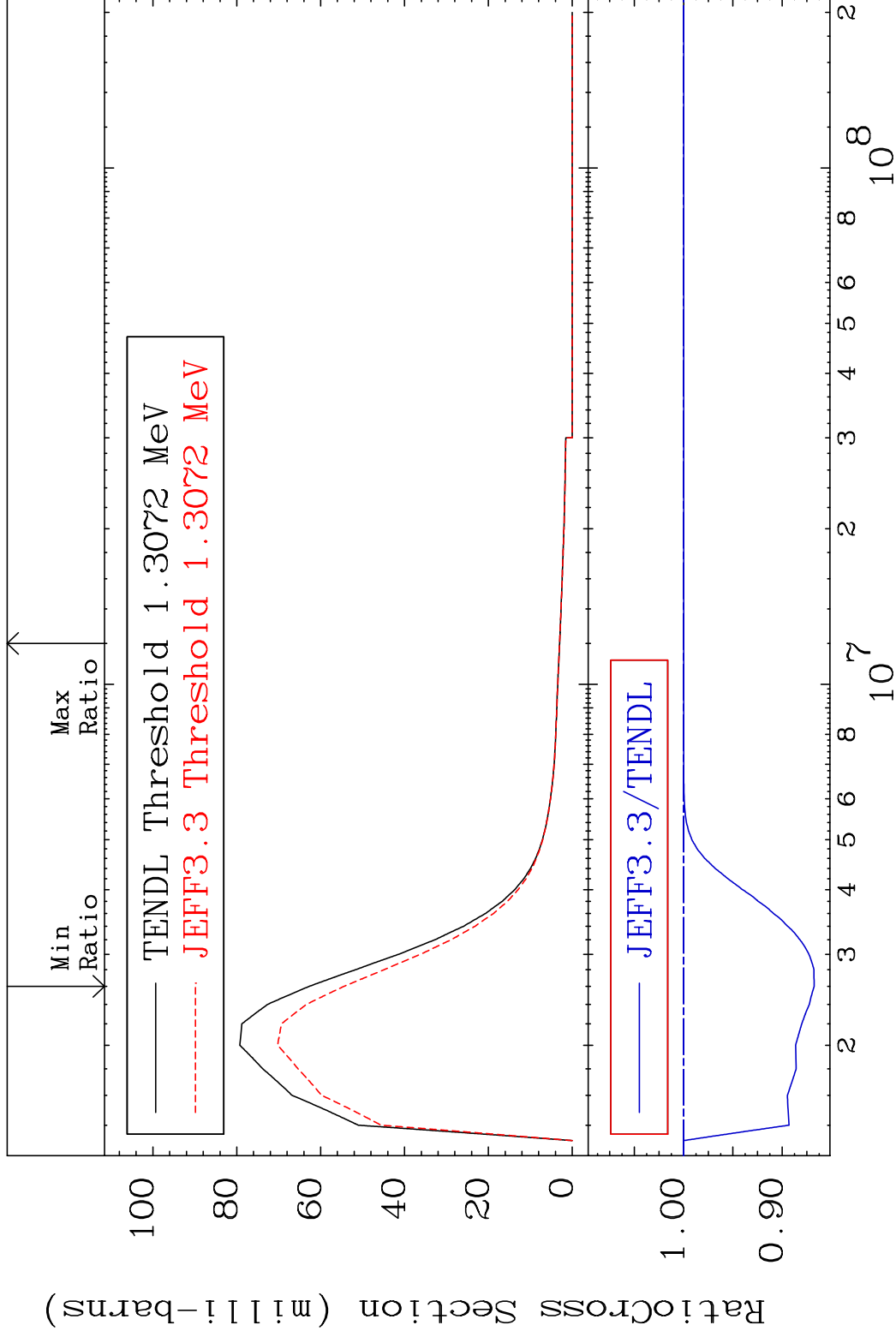


MAT 5846

MT= 67 (n, n') Level

58-Ce-143

Cross Section -13.24 To 0.000 %

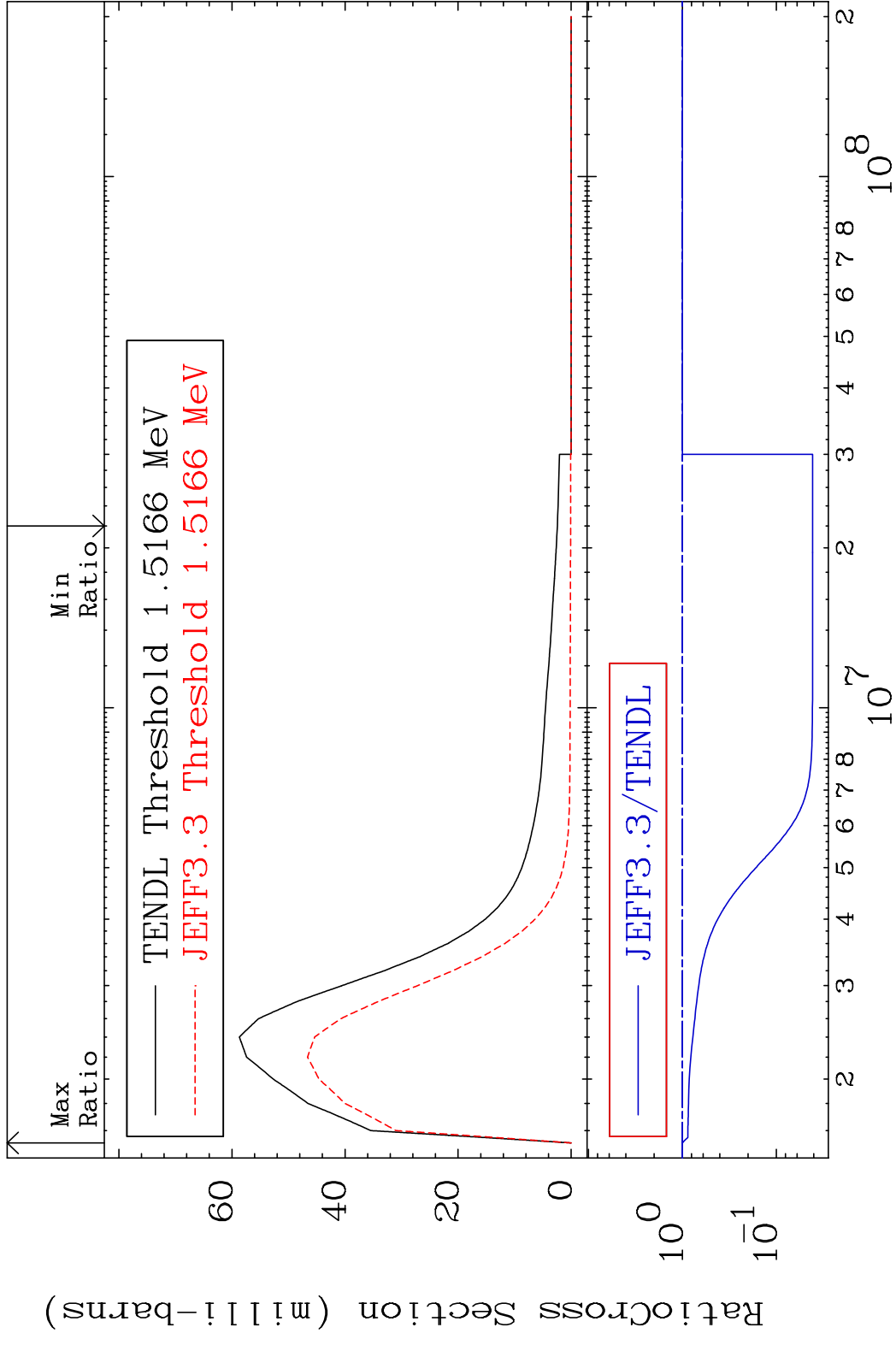


36

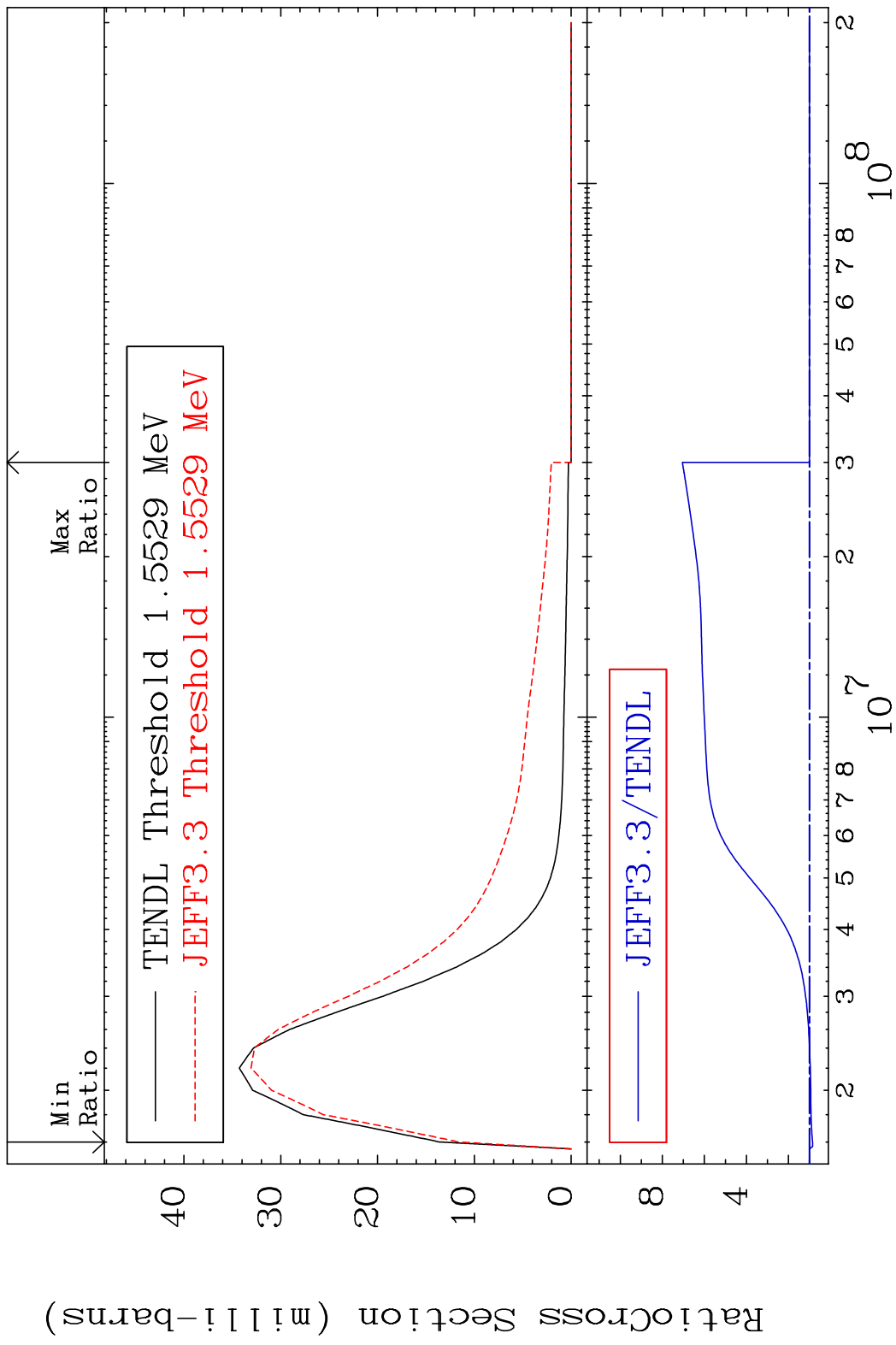
Incident Energy (eV)

58-Ce-143

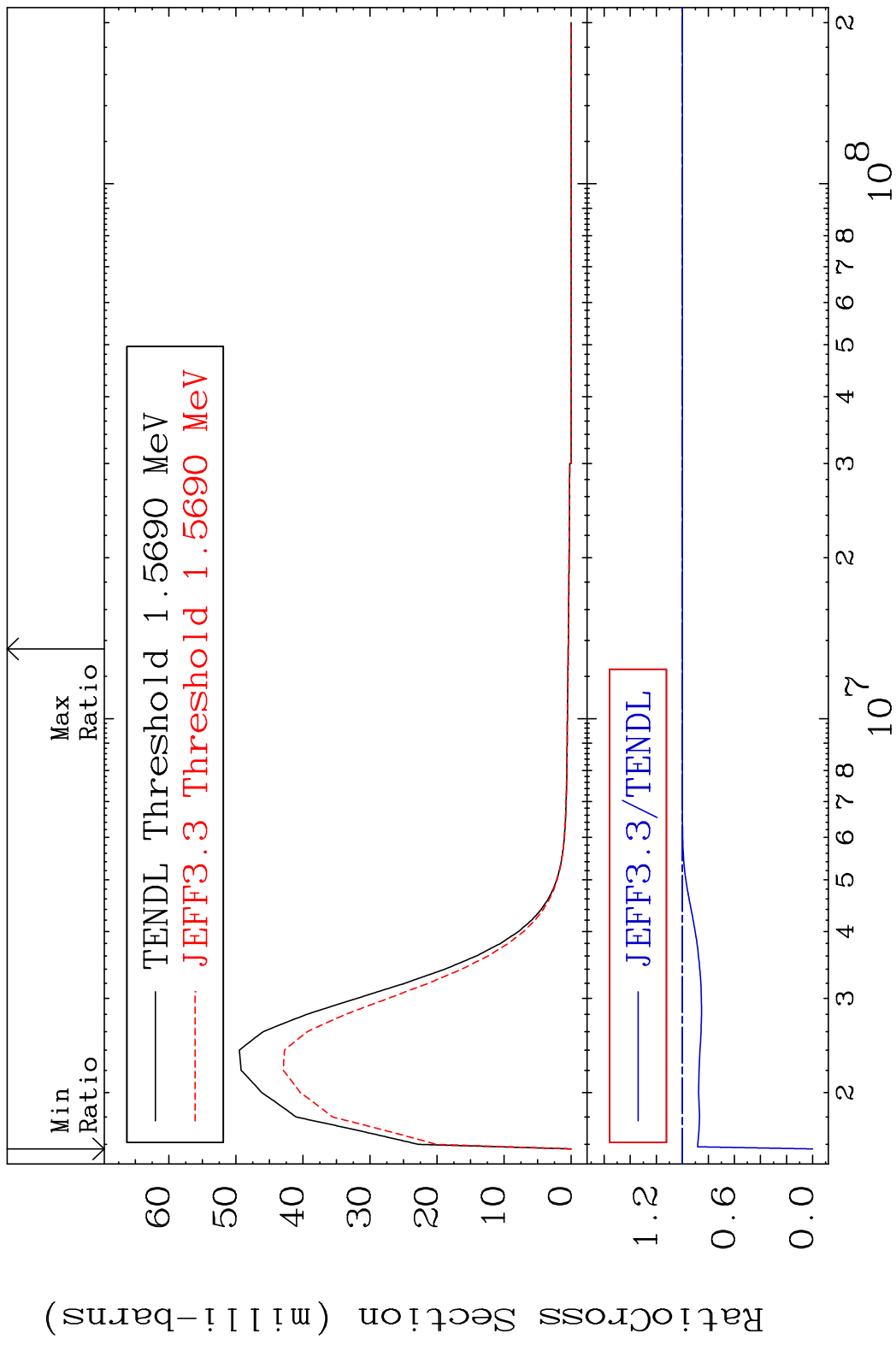
MAT 5846 MT= 68 (n, n') Level 58-Ce-143
 Cross Section -95.88 To 0.000 %



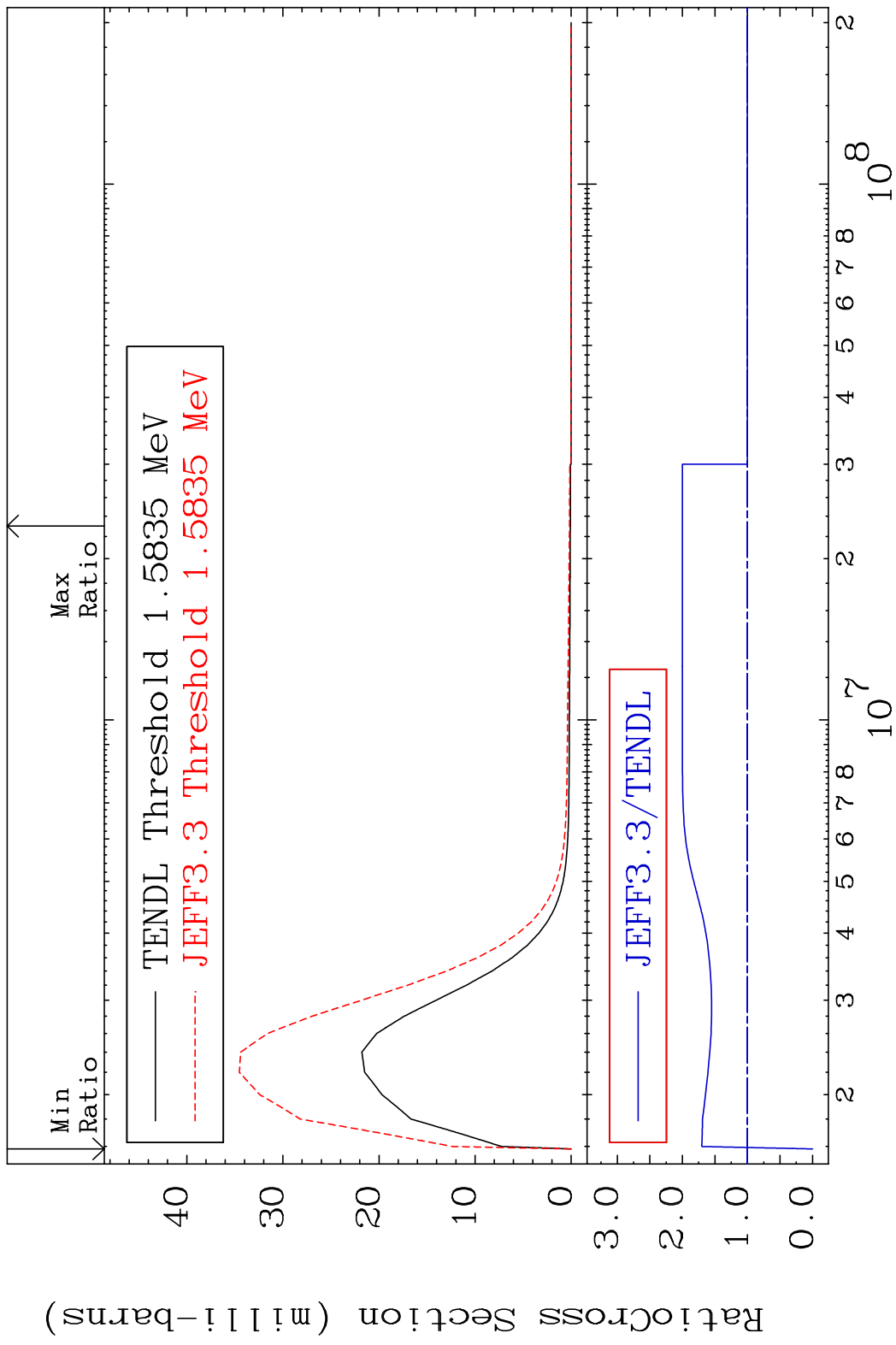
MAT 5846 MT= 69 (n, n') Level 58-Ce-143
 Cross Section -14.62 To 604.7 %



MAT 5846 MT= 70 (n,n') Level 58-Ce-143
 Cross Section -100.0 To 0.000 %

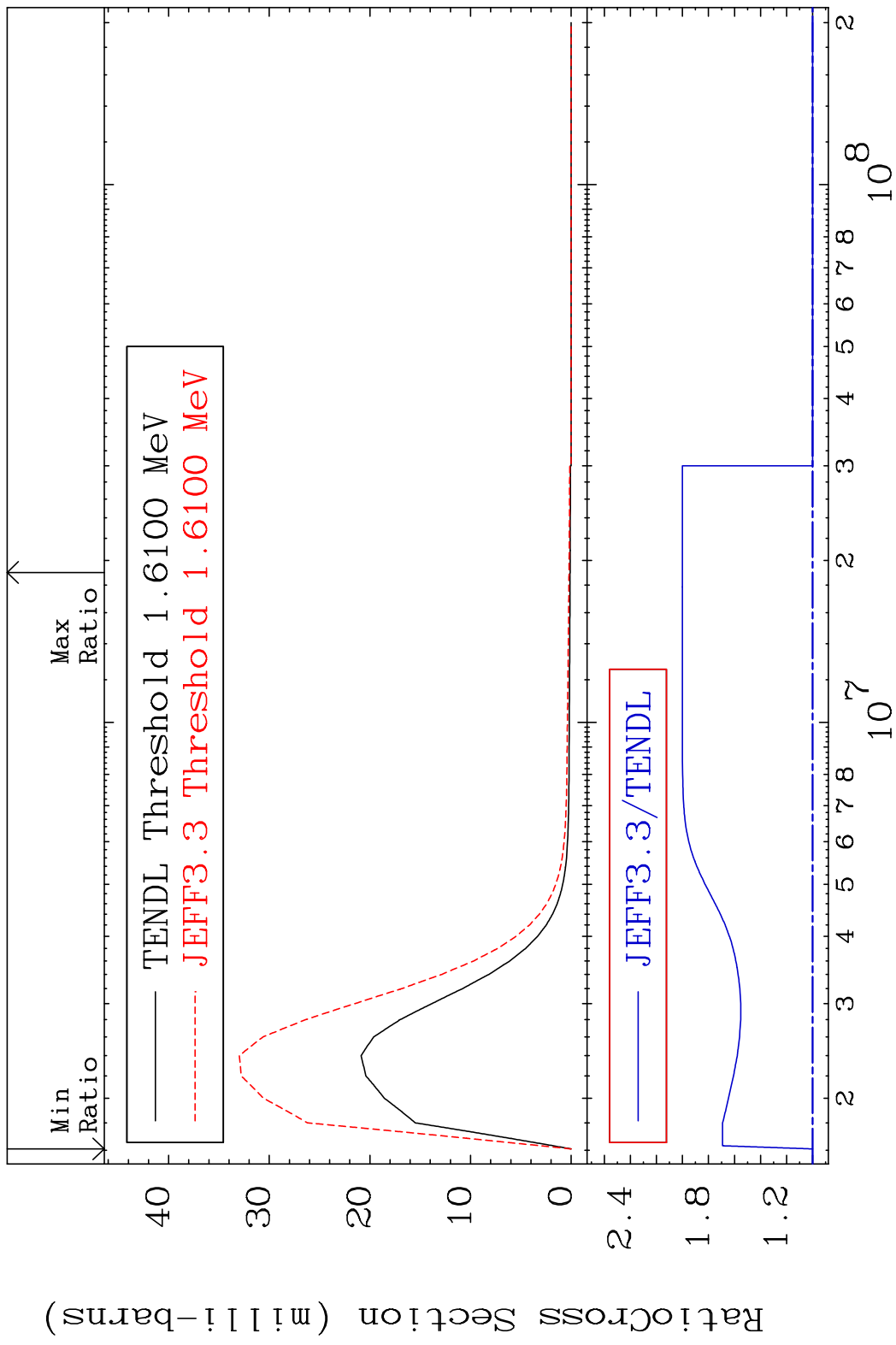


MAT 5846 MT= 71 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 100.1 %



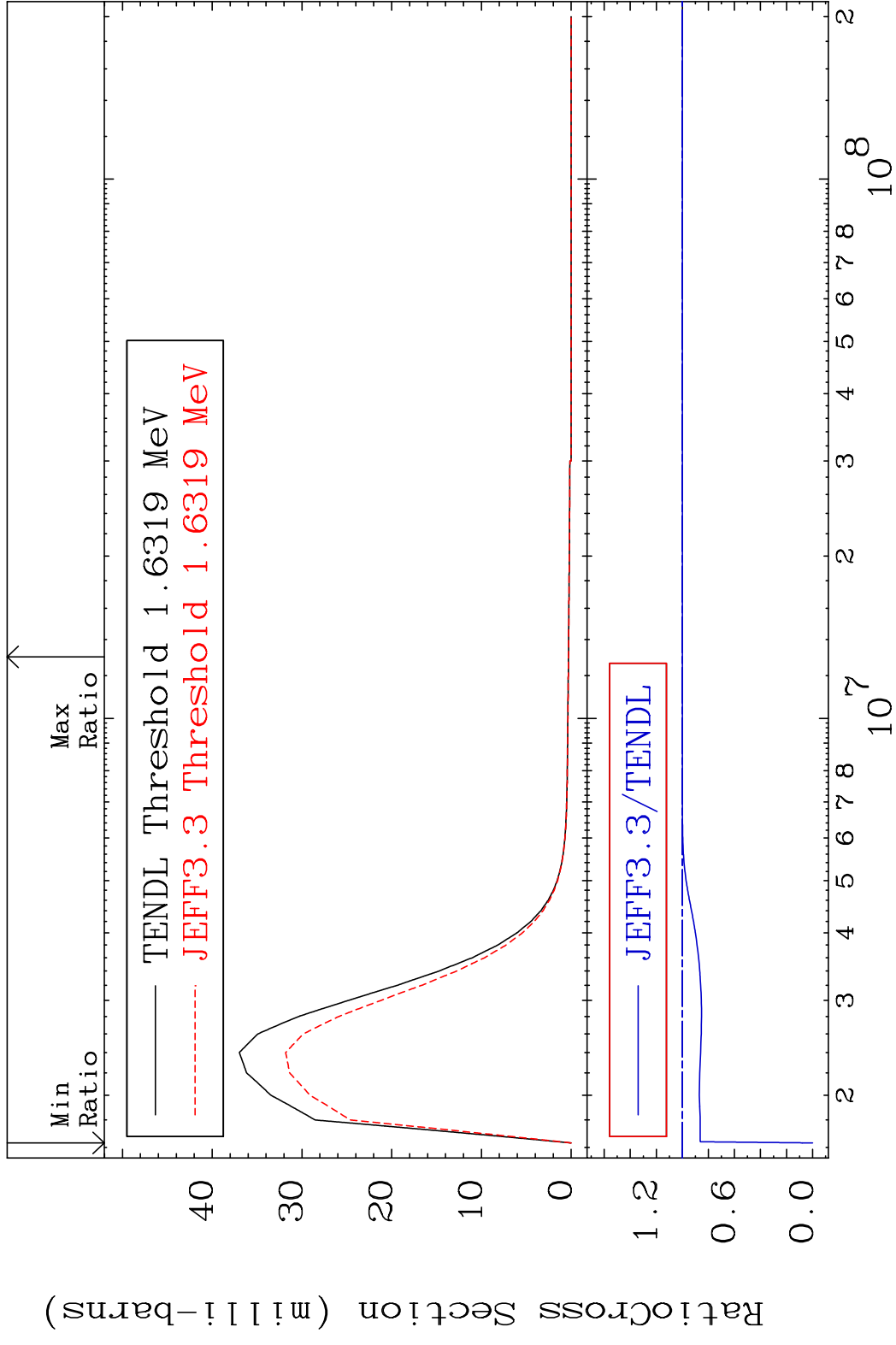
40 58-Ce-143

MAT 5846 MT= 72 (n, n') Level 58-Ce-143
 Cross Section 0.000 To 100.1 %

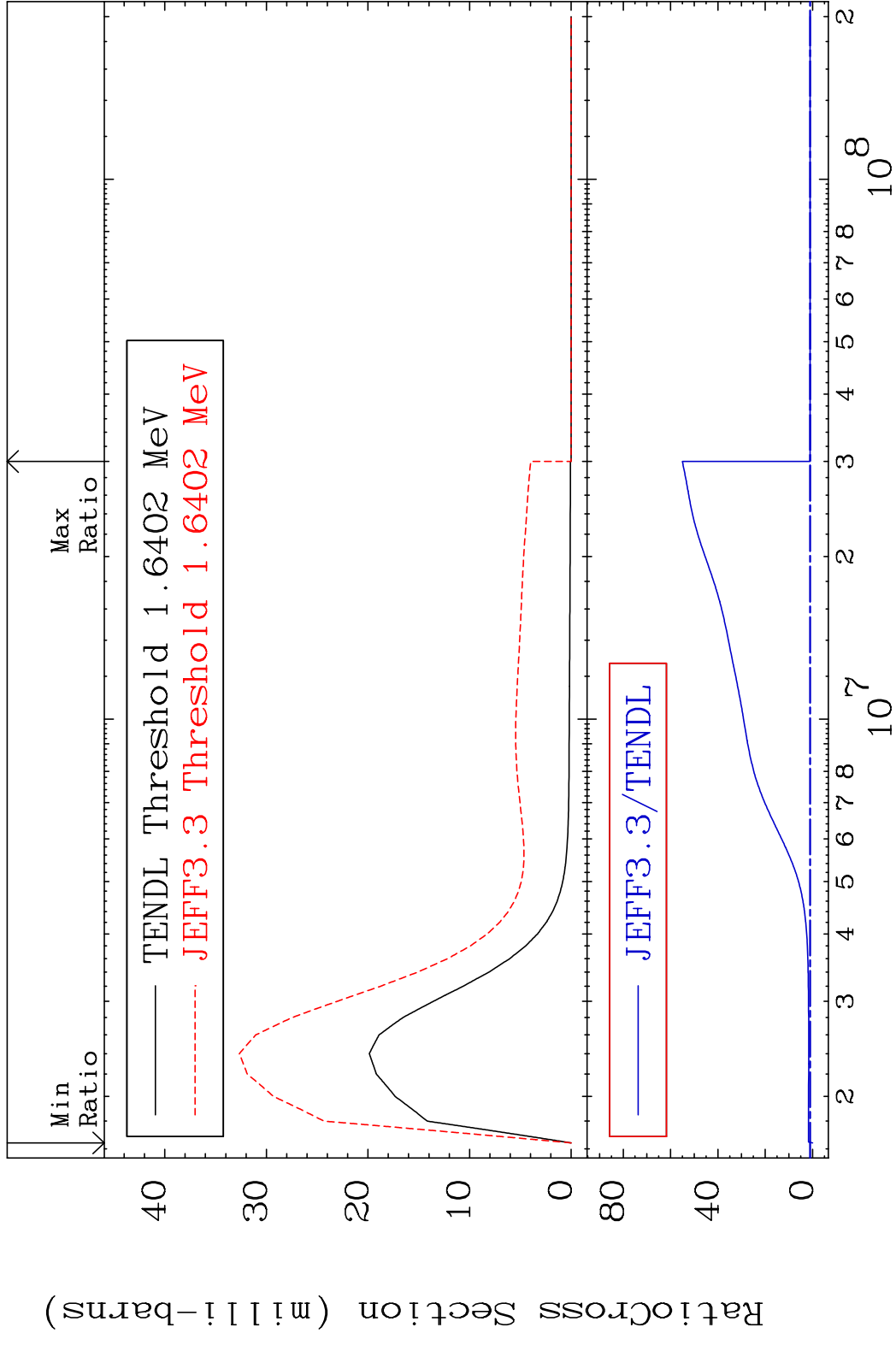


41 Incident Energy (eV) 58-Ce-143

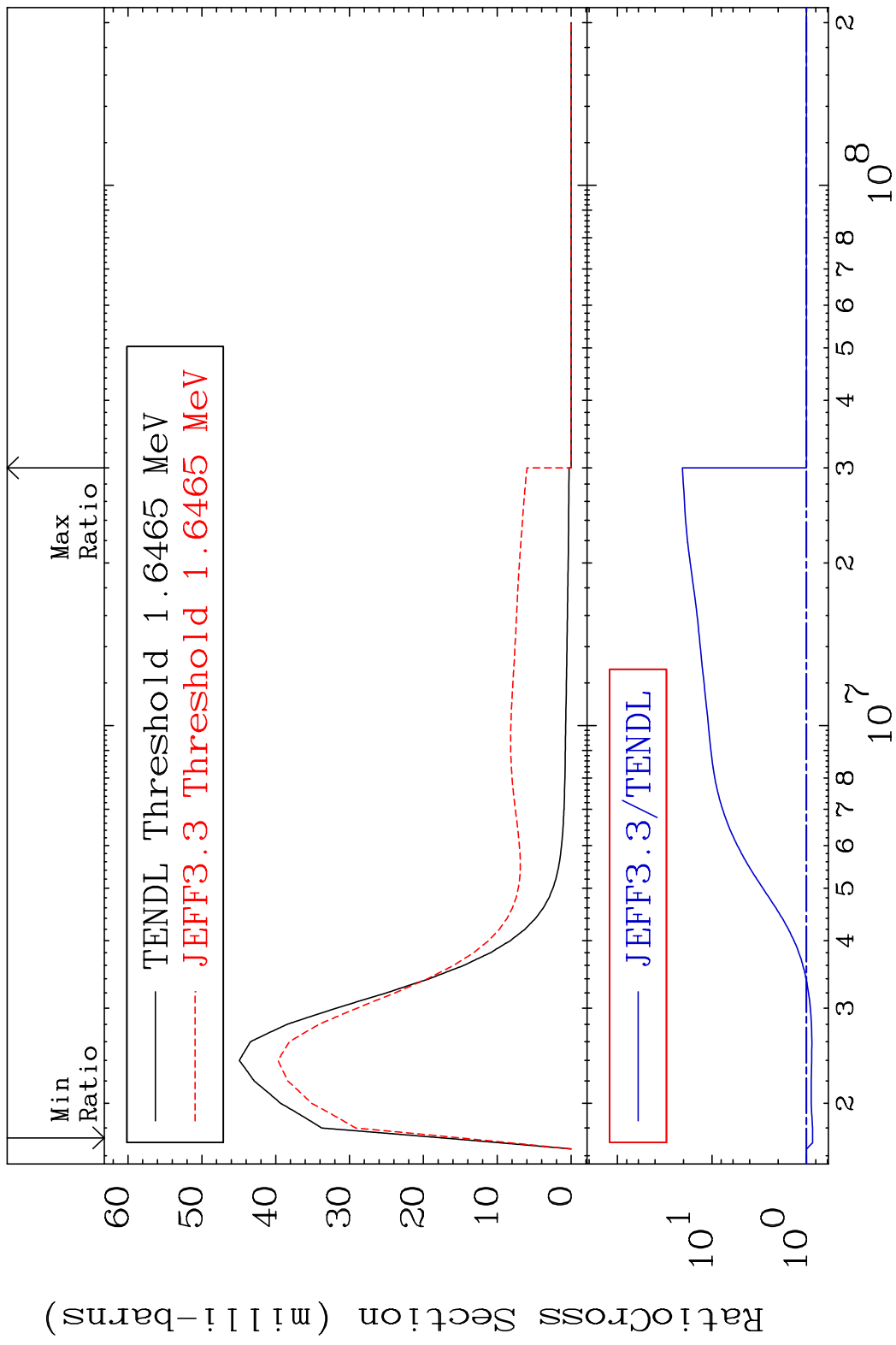
MAT 5846 MT= 73 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 0.000 %



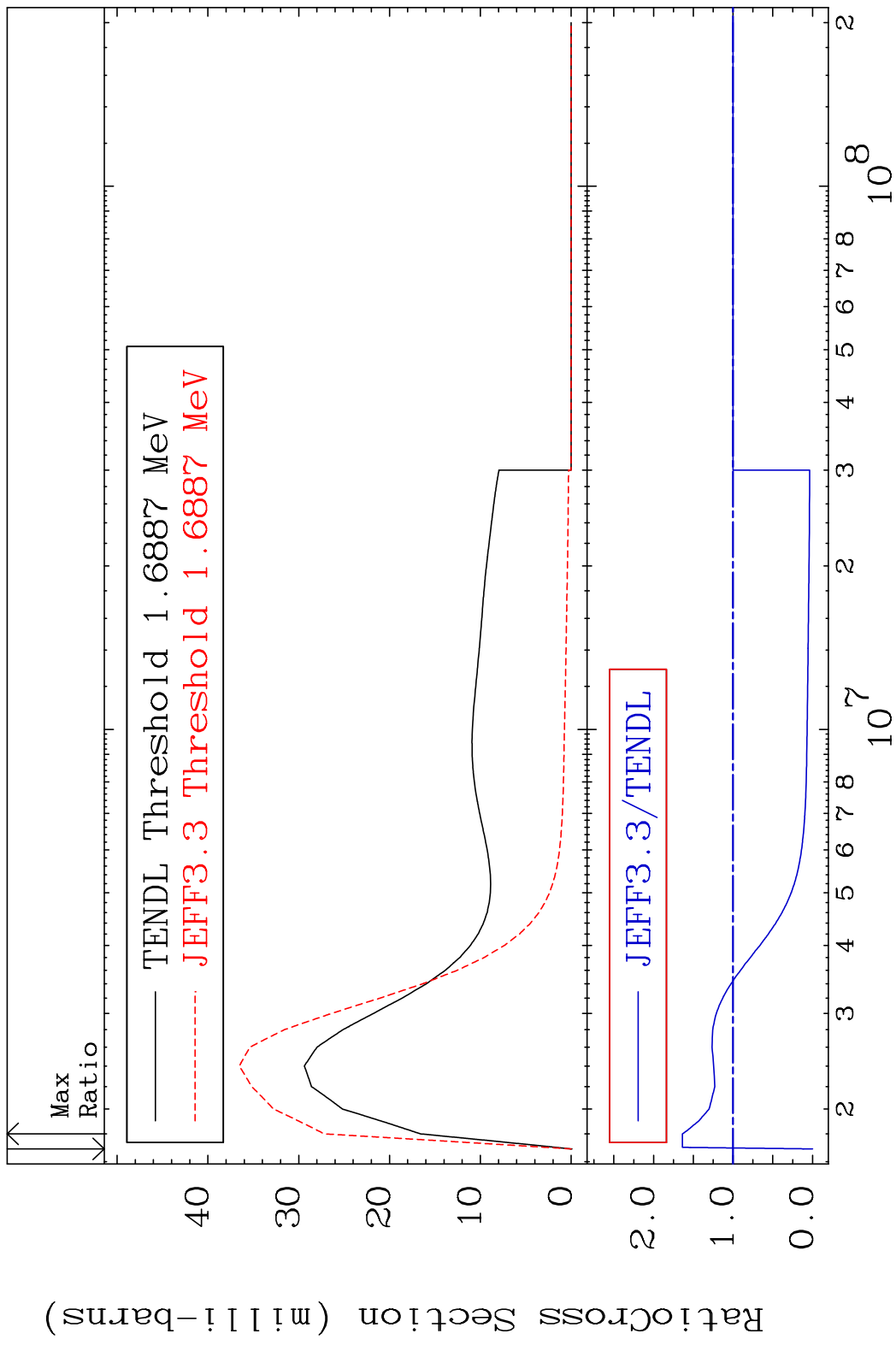
MAT 5846 MT= 74 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 5401. %



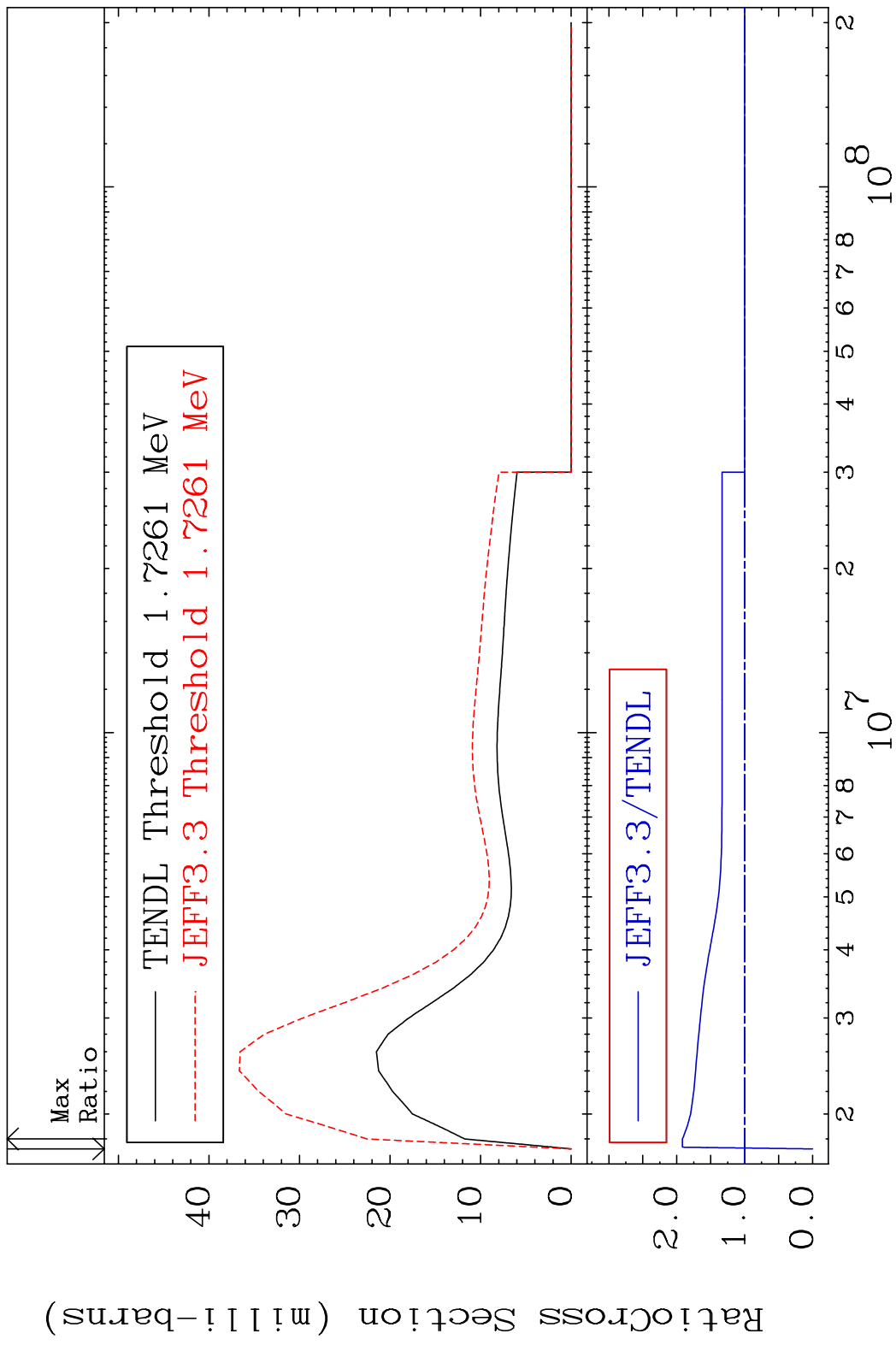
MAT 5846 MT= 75 (n,n') Level 58-Ce-143
 Cross Section -13.61 To 1960. %



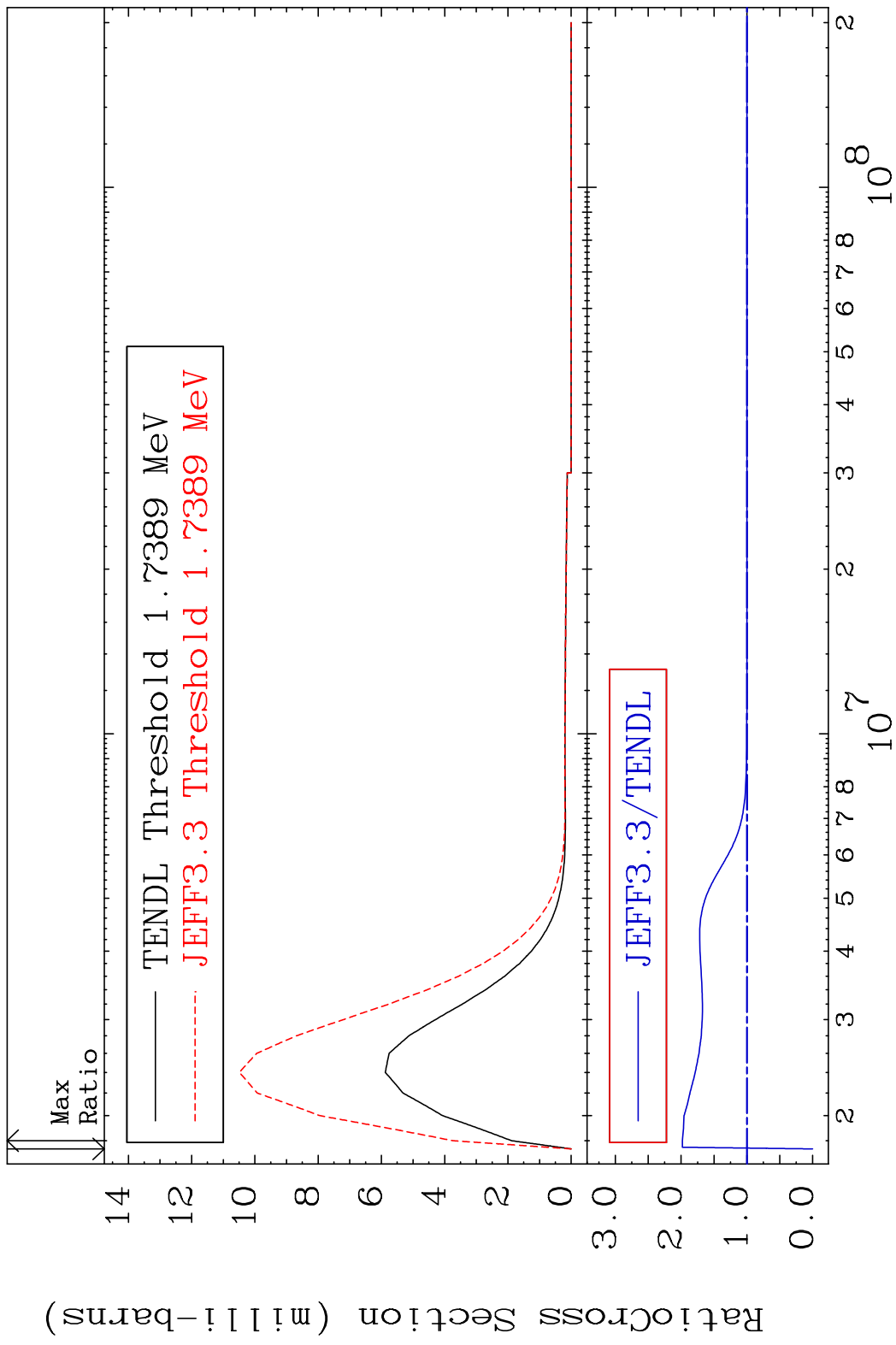
MAT 5846 MT= 76 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 63.79 %



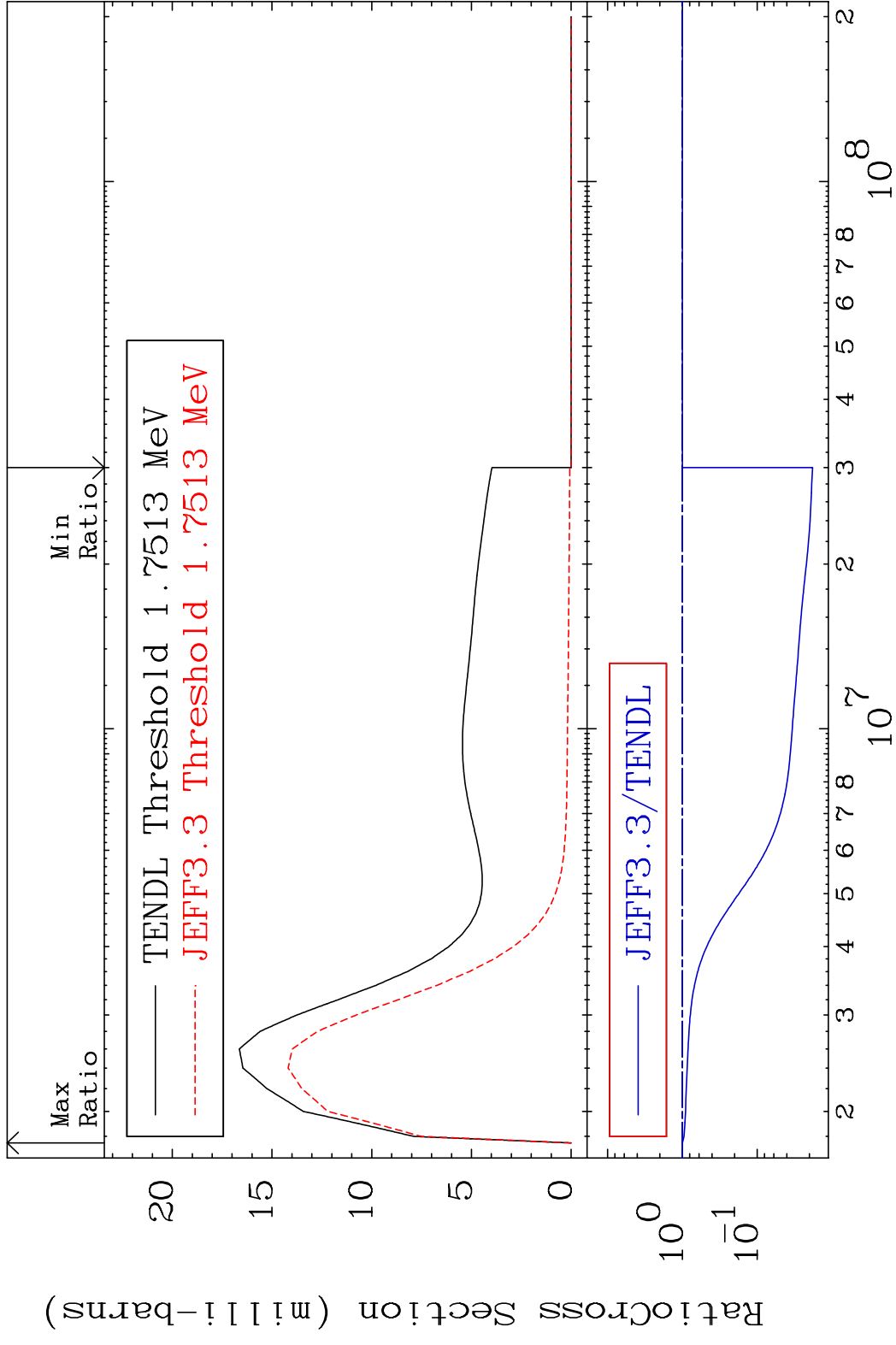
MAT 5846 MT= 77 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 91.75 %



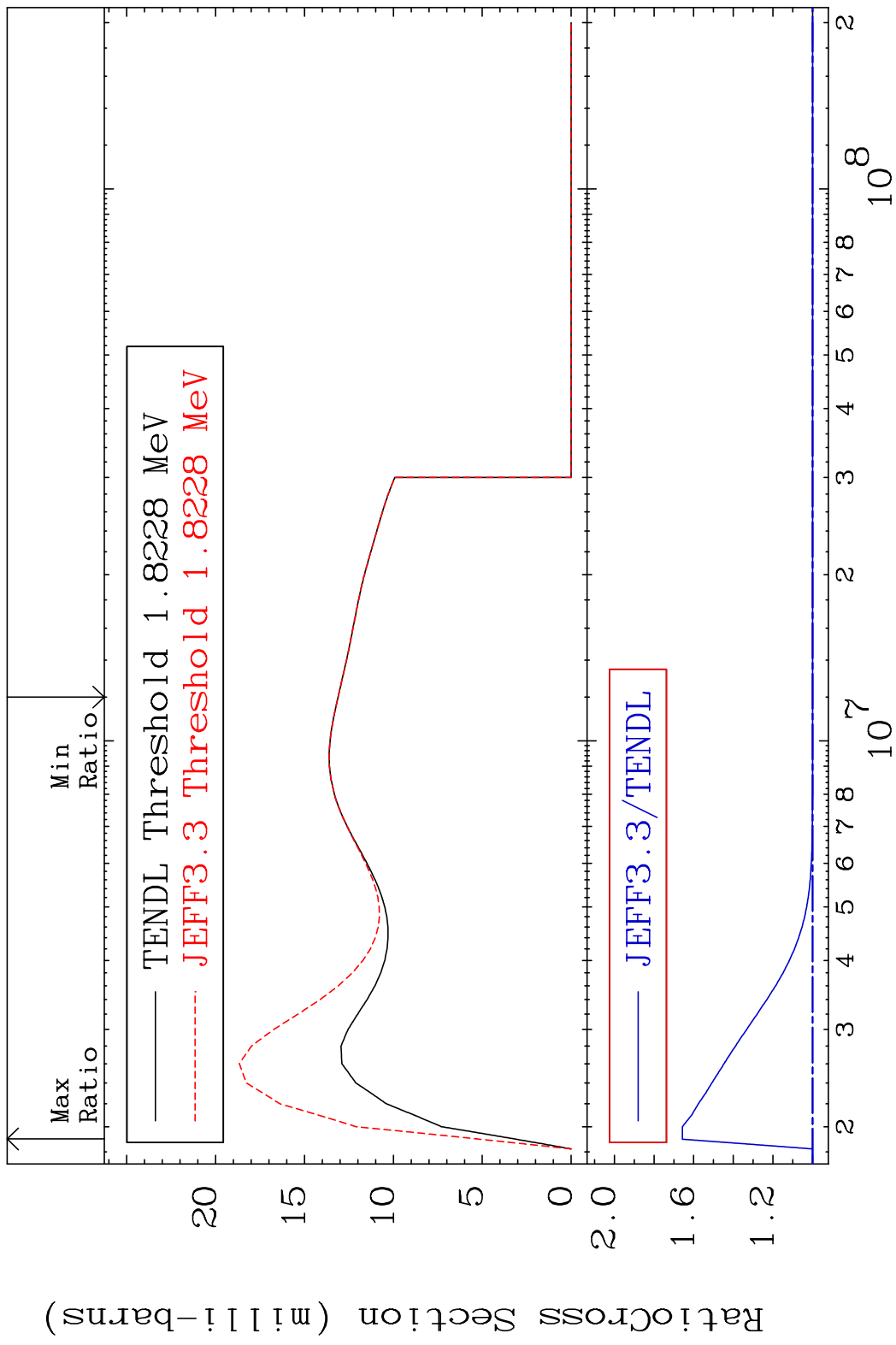
MAT 5846 MT= 78 (n, n') Level 58-Ce-143
 Cross Section -100.0 To 98.14 %



MAT 5846 MT= 79 (n, n') Level 58-Ce-143
 Cross Section -98.18 To 0.000 %



MAT 5846 MT= 80 (n, n') Level 58-Ce-143
 Cross Section 0.000 To 65.71 %

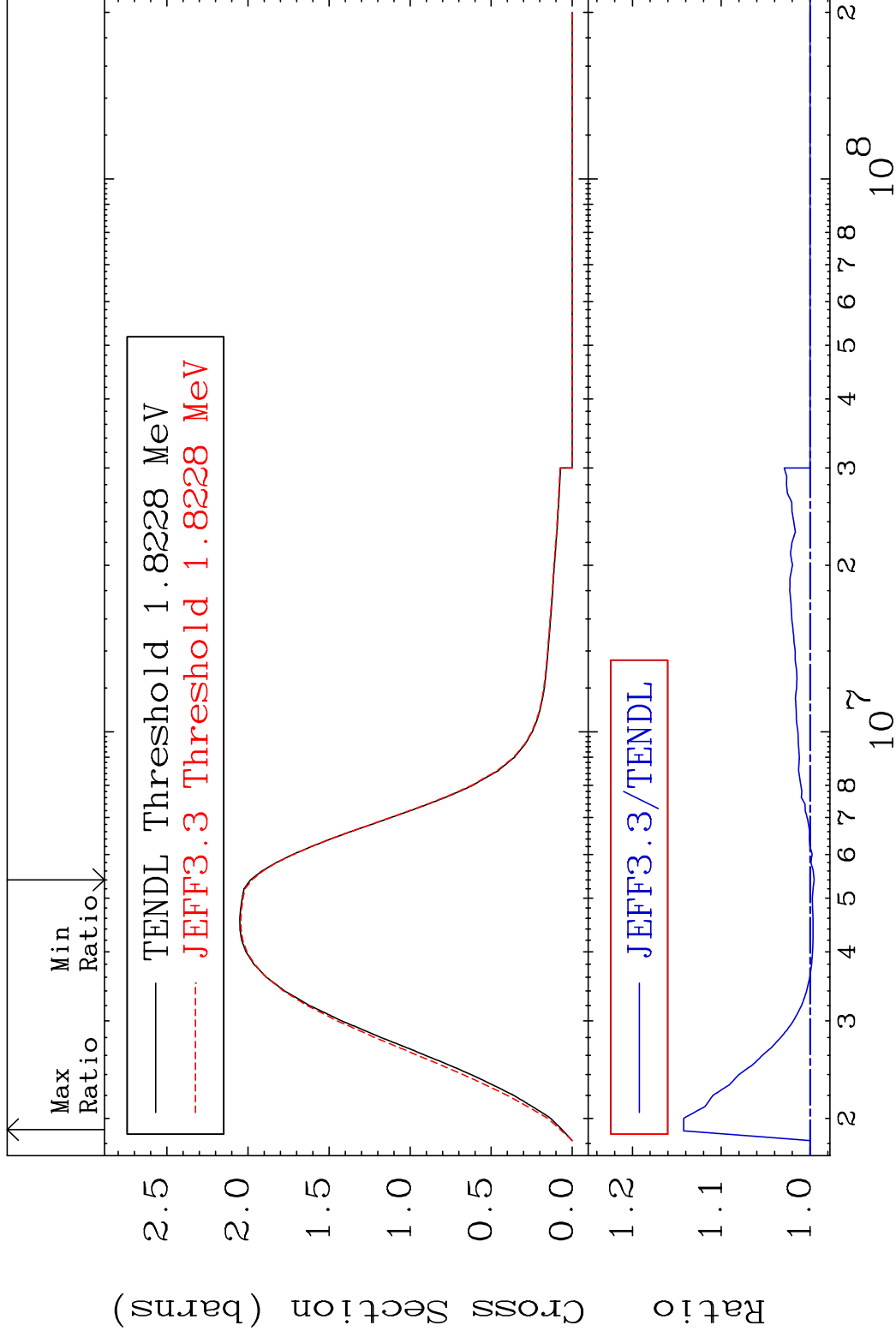


MAT 5846

(n,n') Continuum

58-Ce-143

Cross Section -0.452 To 14.23 %



50

Incident Energy (eV)

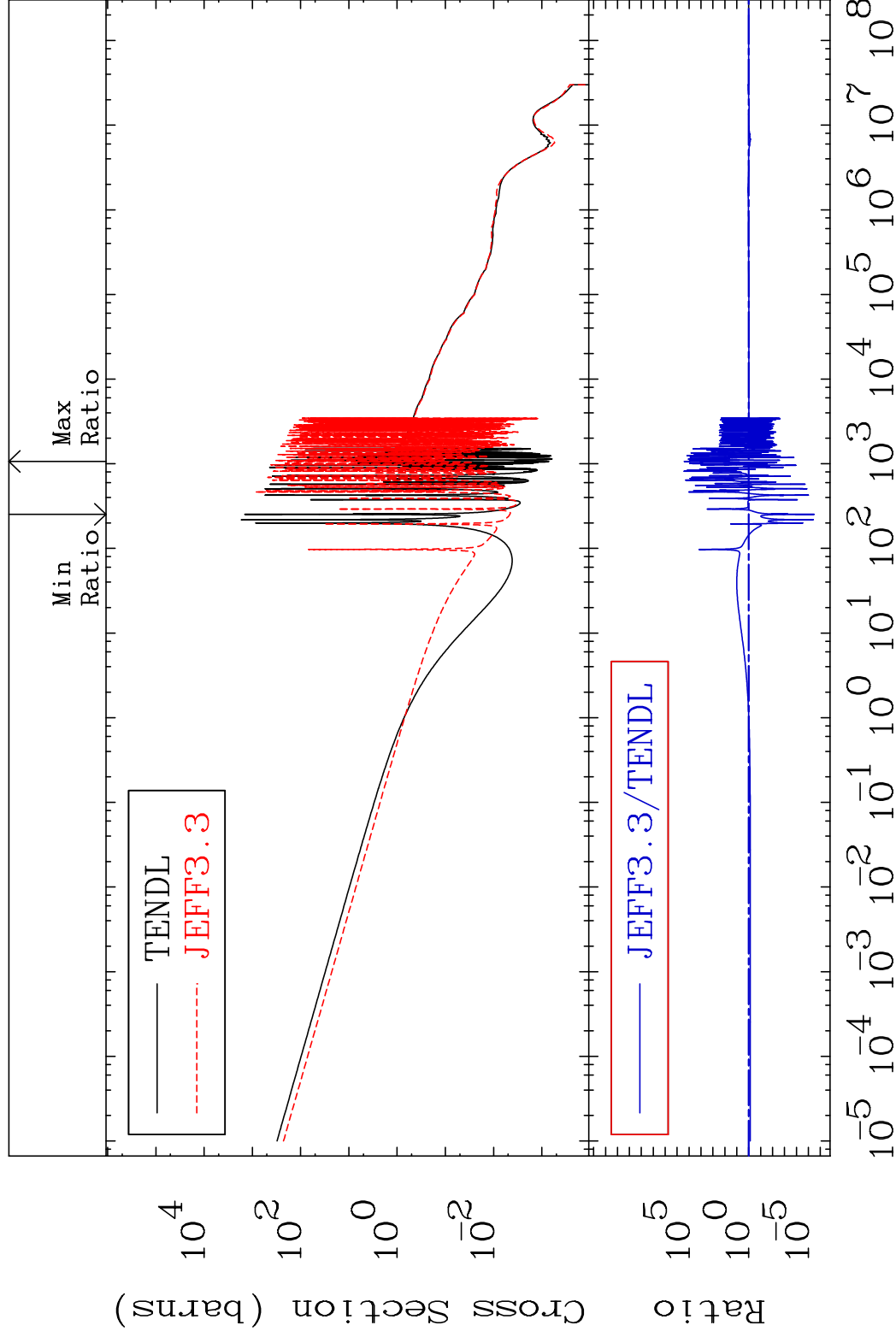
58-Ce-143

MAT 5846

(n, γ)

58-Ce-143

Cross Section -100.0 To 9999. %



51

Incident Energy (eV)

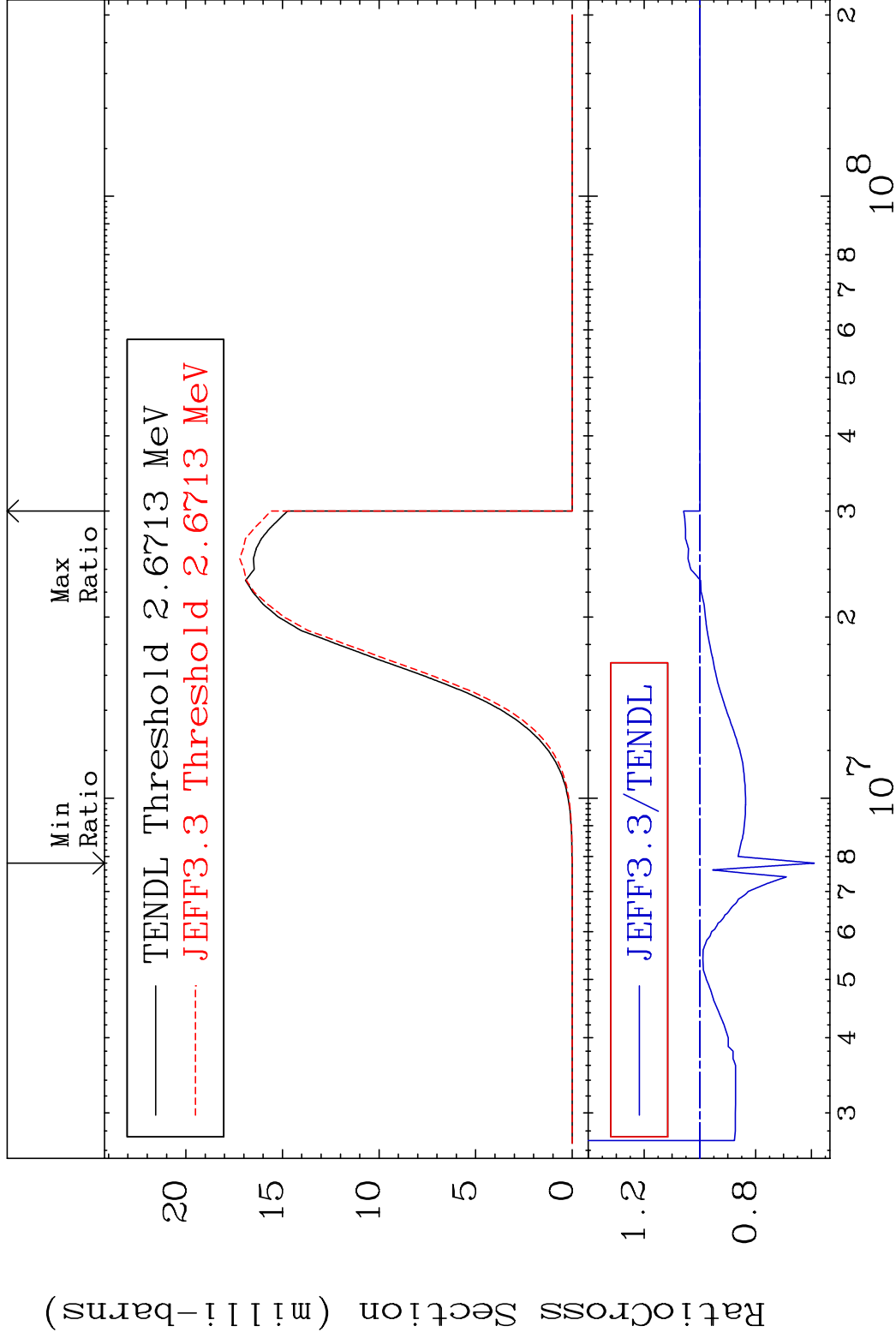
58-Ce-143

MAT 5846

(n, p)

58-Ce-143

Cross Section -40.98 To 5.836 %



52

Incident Energy (eV)

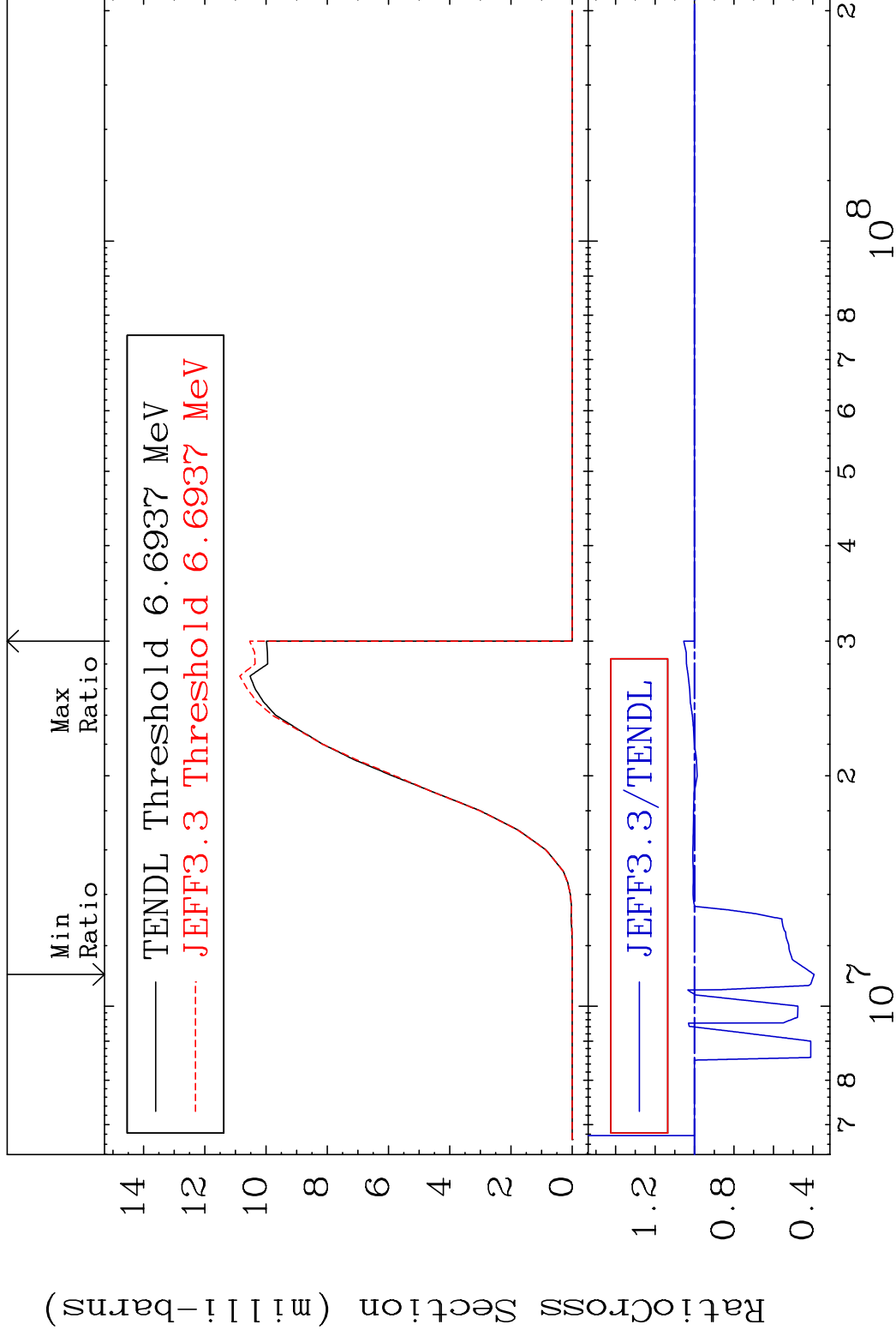
58-Ce-143

MAT 5846

(n, d)

58-Ce-143

Cross Section -60.65 To 5.499 %



53

Incident Energy (eV)

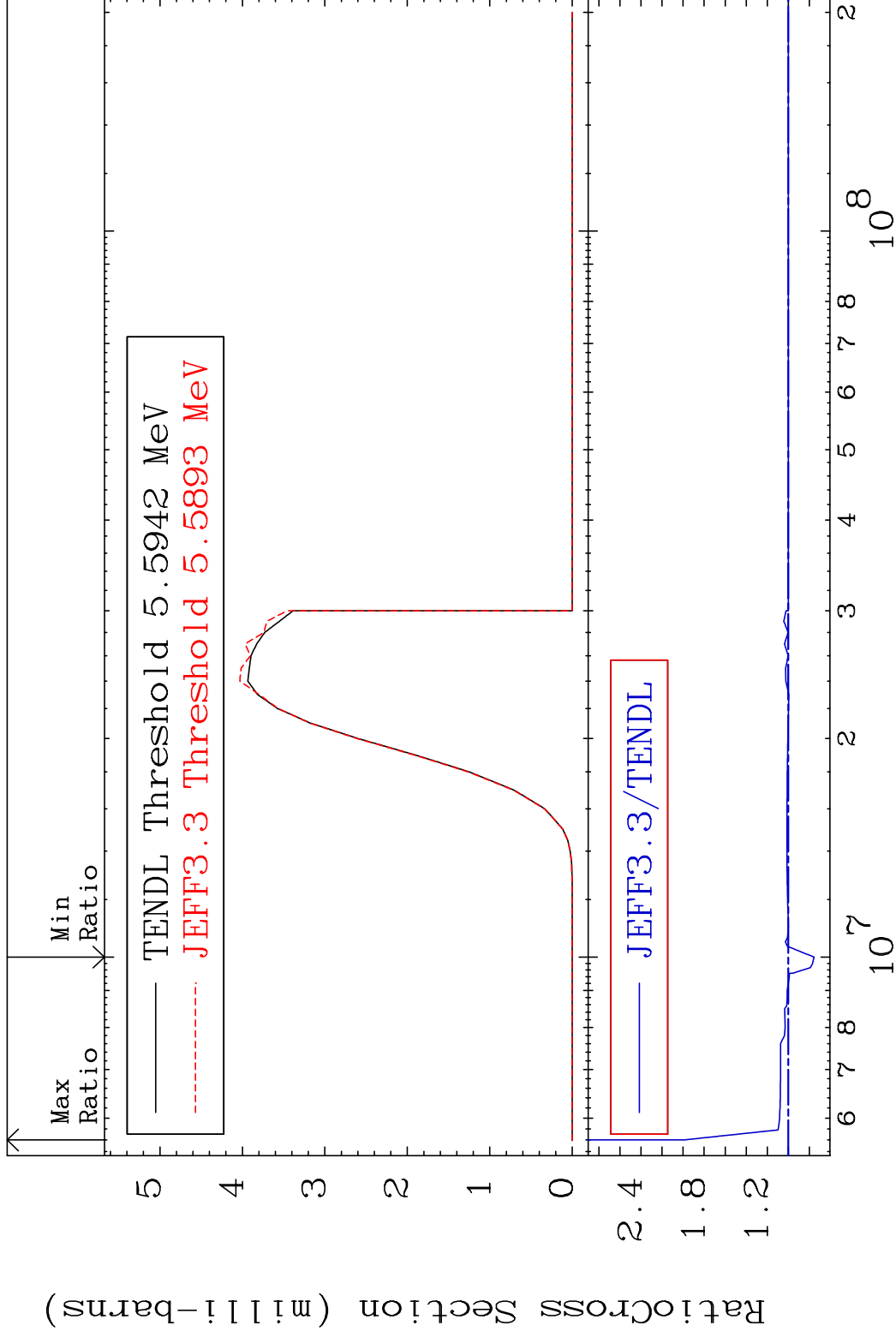
58-Ce-143

MAT 5846

(n, t)

58-Ce-143

Cross Section -24.46 To 99.44 %



54

Incident Energy (eV)

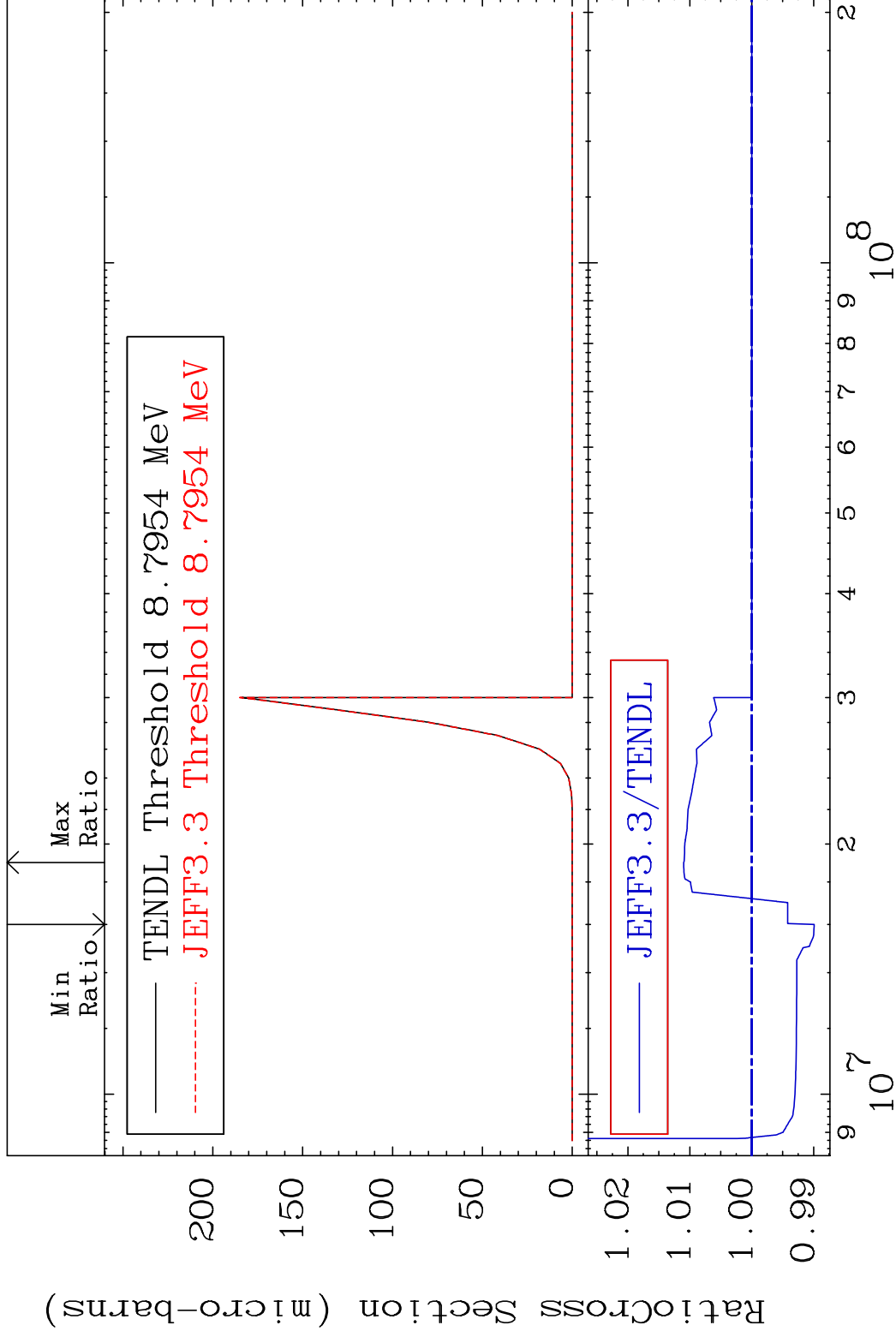
58-Ce-143

MAT 5846

(n, He-3)

58-Ce-143

Cross Section -1.008 To 1.099 %



55

Incident Energy (eV)

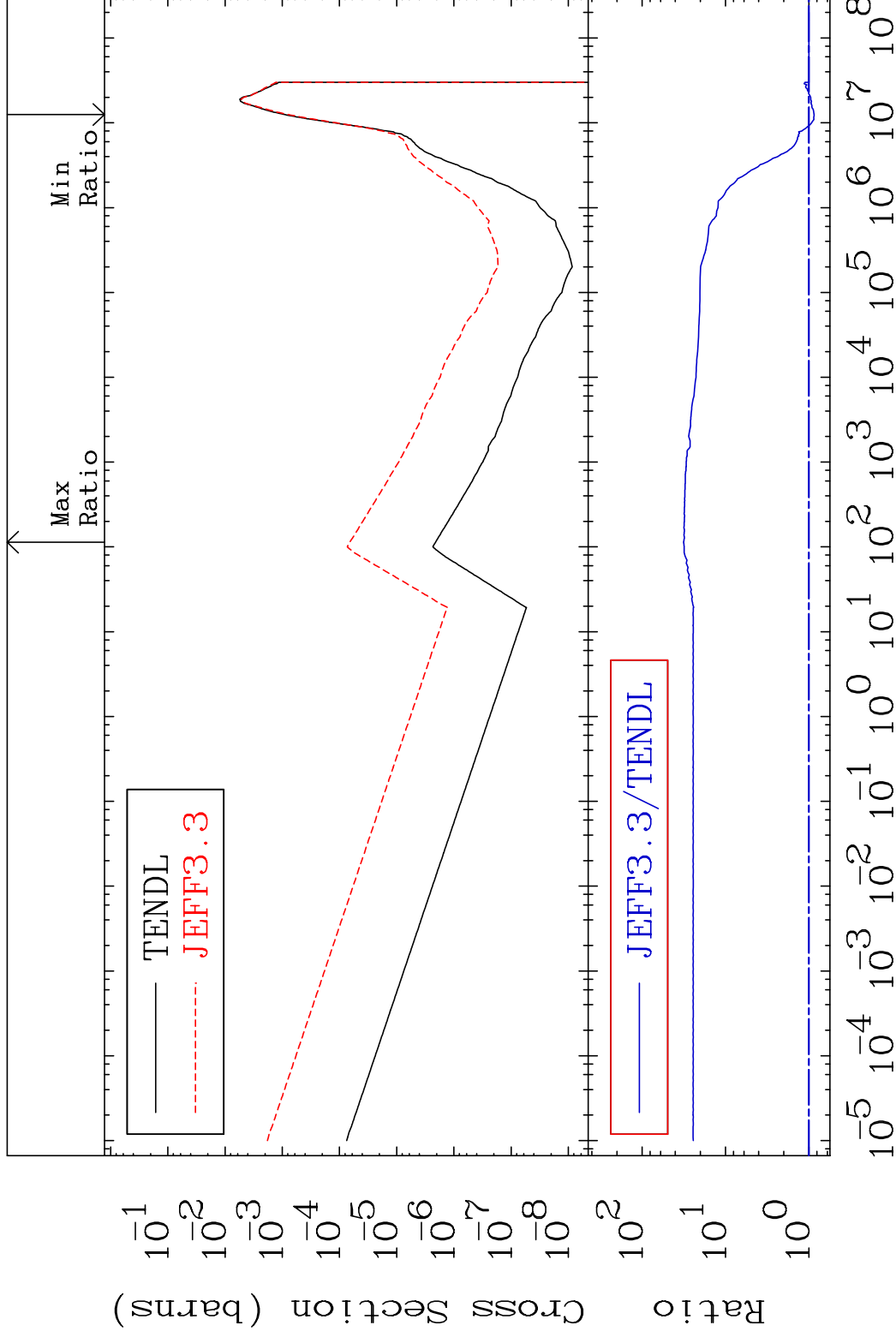
58-Ce-143

MAT 5846

(n, α)

58-Ce-143

Cross Section -13.49 To 3067. %



56

Incident Energy (eV)

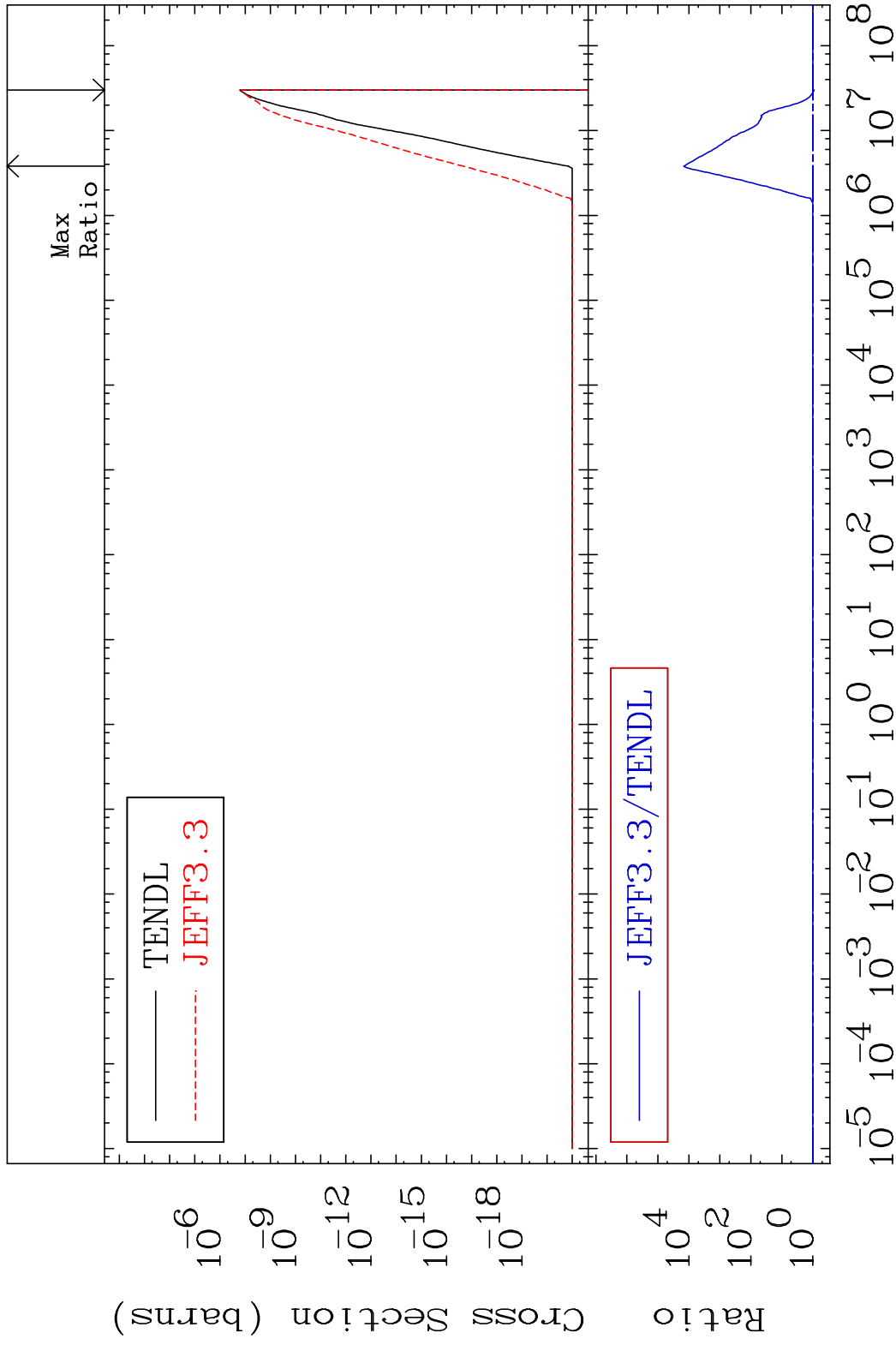
58-Ce-143

MAT 5846

(n, 2α)

58-Ce-143

Cross Section -8.996 To 9999. %



57

Incident Energy (eV)

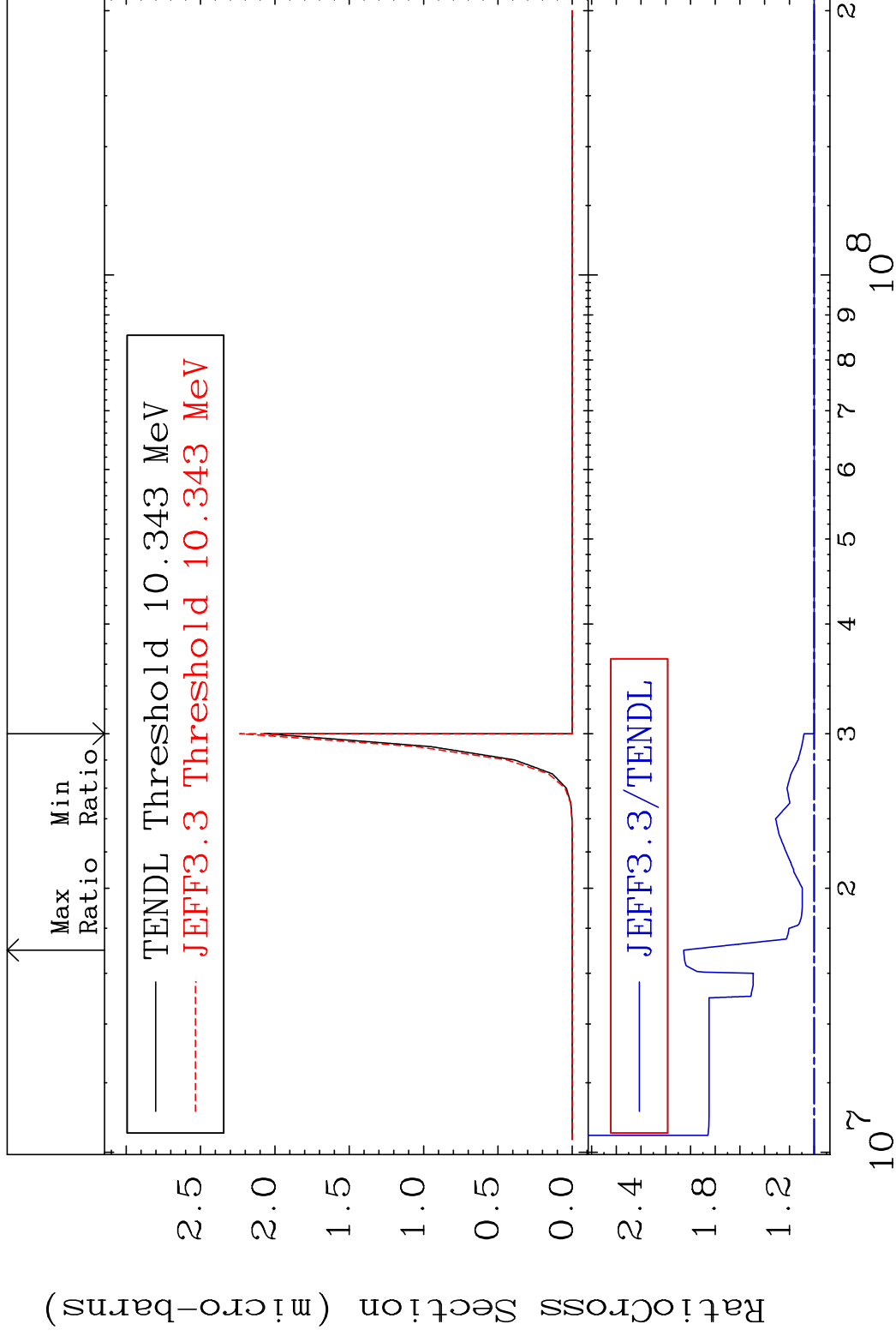
58-Ce-143

MAT 5846

(n,2p)

58-Ce-143

Cross Section 0.000 To 105.5 %



58

Incident Energy (eV)

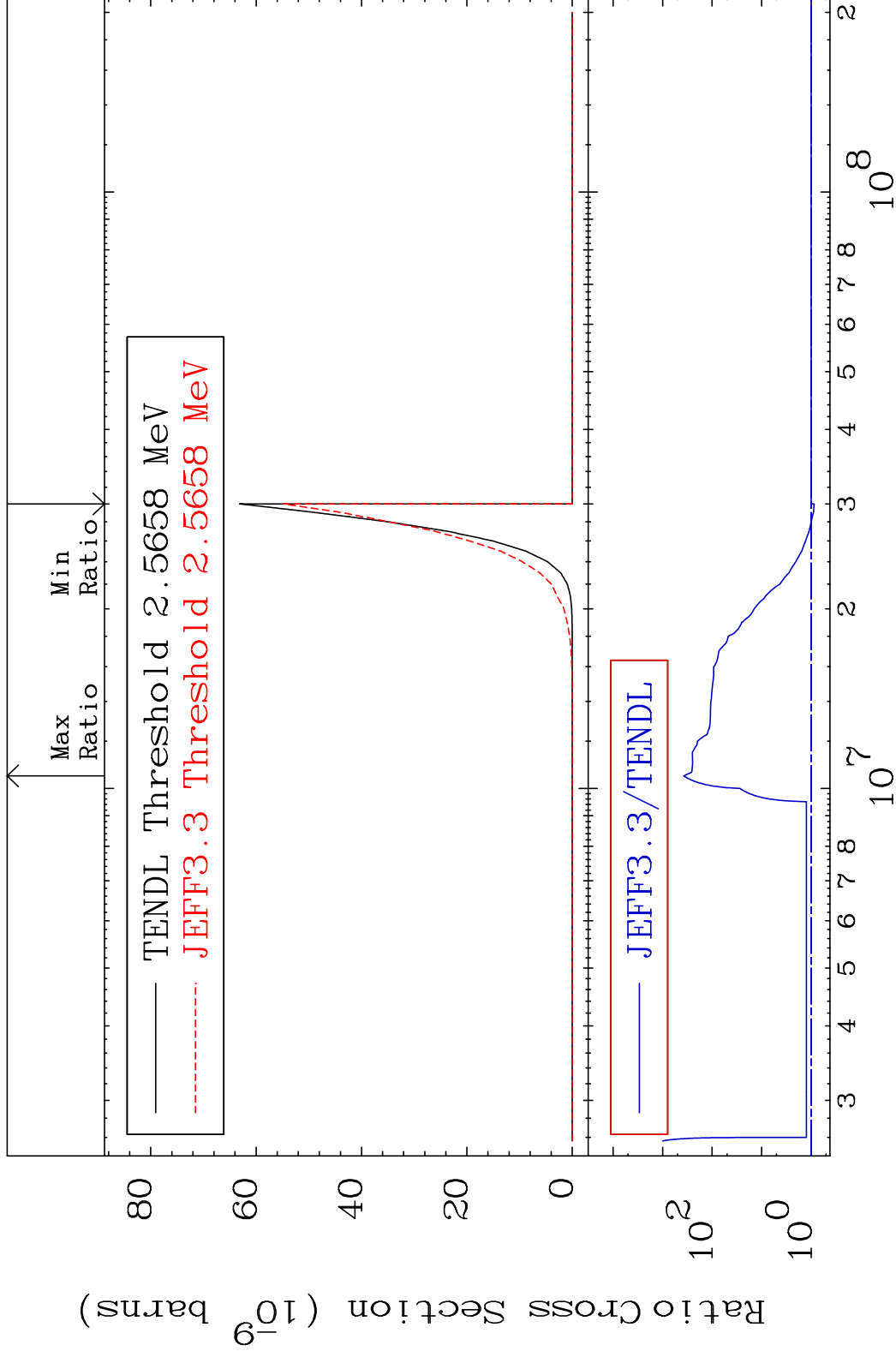
58-Ce-143

MAT 5846

(n,p) α

58-Ce-143

Cross Section -13.09 To 9999. %



59

Incident Energy (eV)

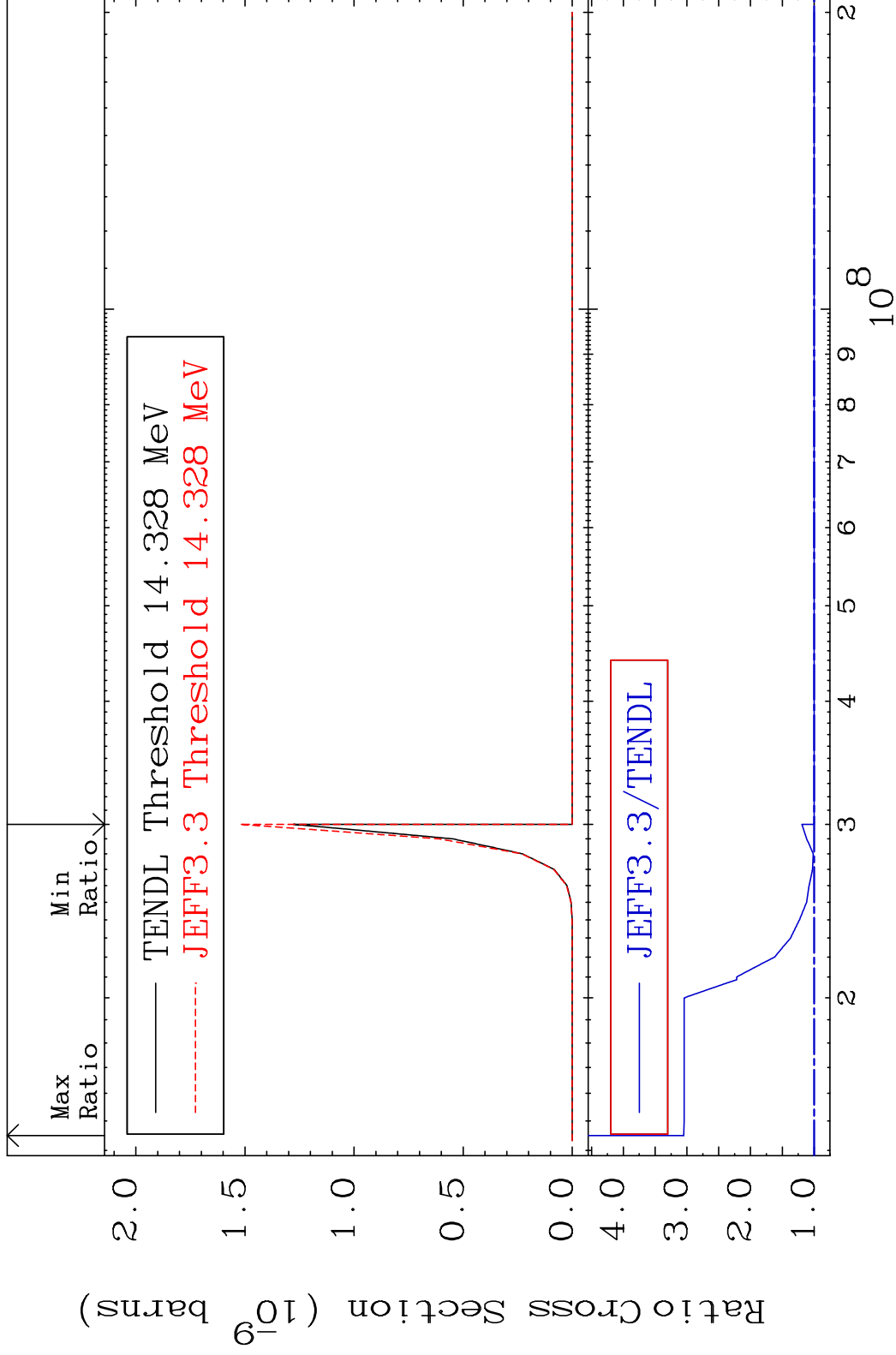
58-Ce-143

MAT 5846

(n,p) d

58-Ce-143

Cross Section 0.000 To 205.1 %



60

Incident Energy (eV)

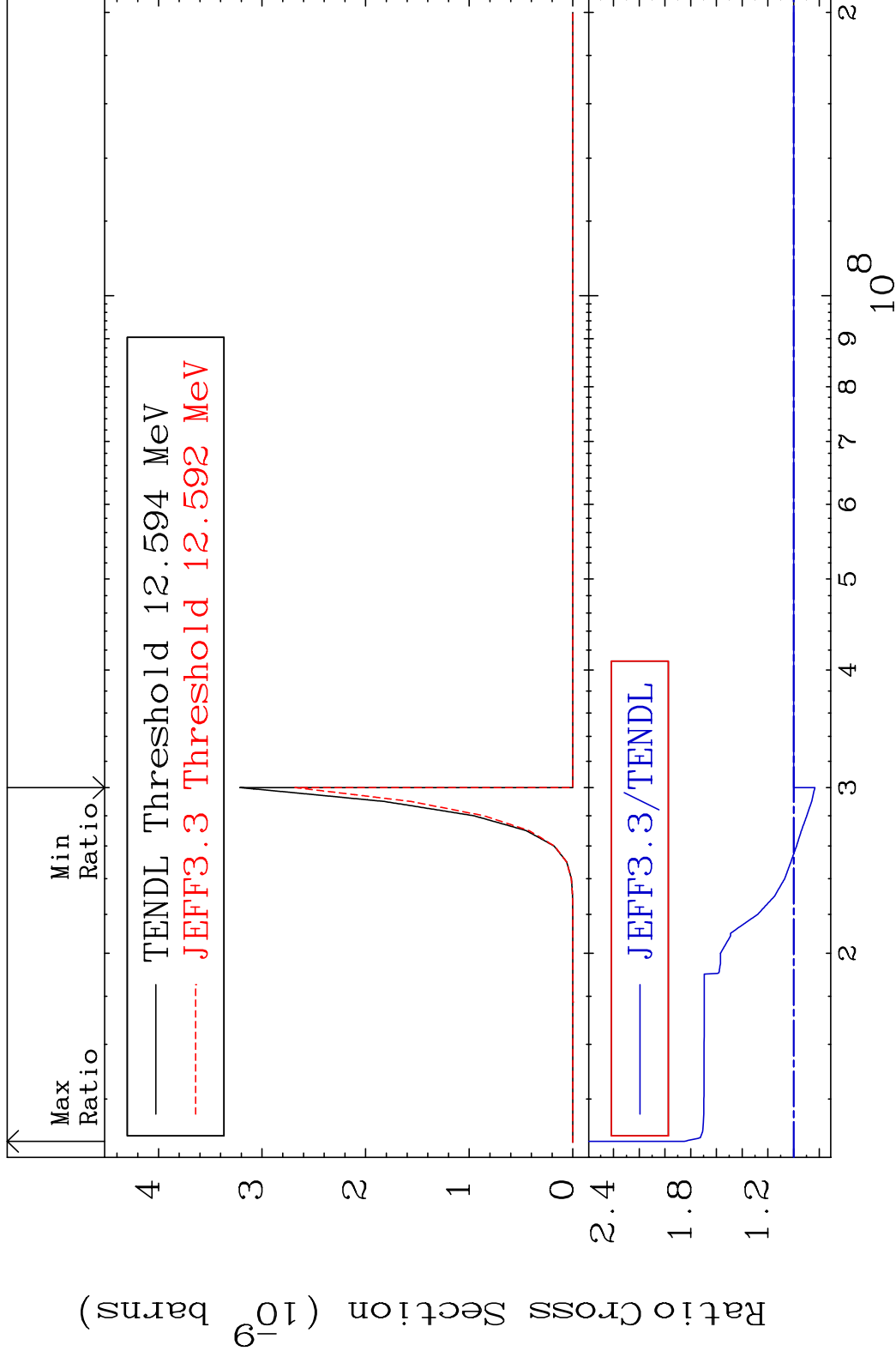
58-Ce-143

MAT 5846

(n,p) t

58-Ce-143

Cross Section -16.57 To 84.96 %



61

Incident Energy (eV)

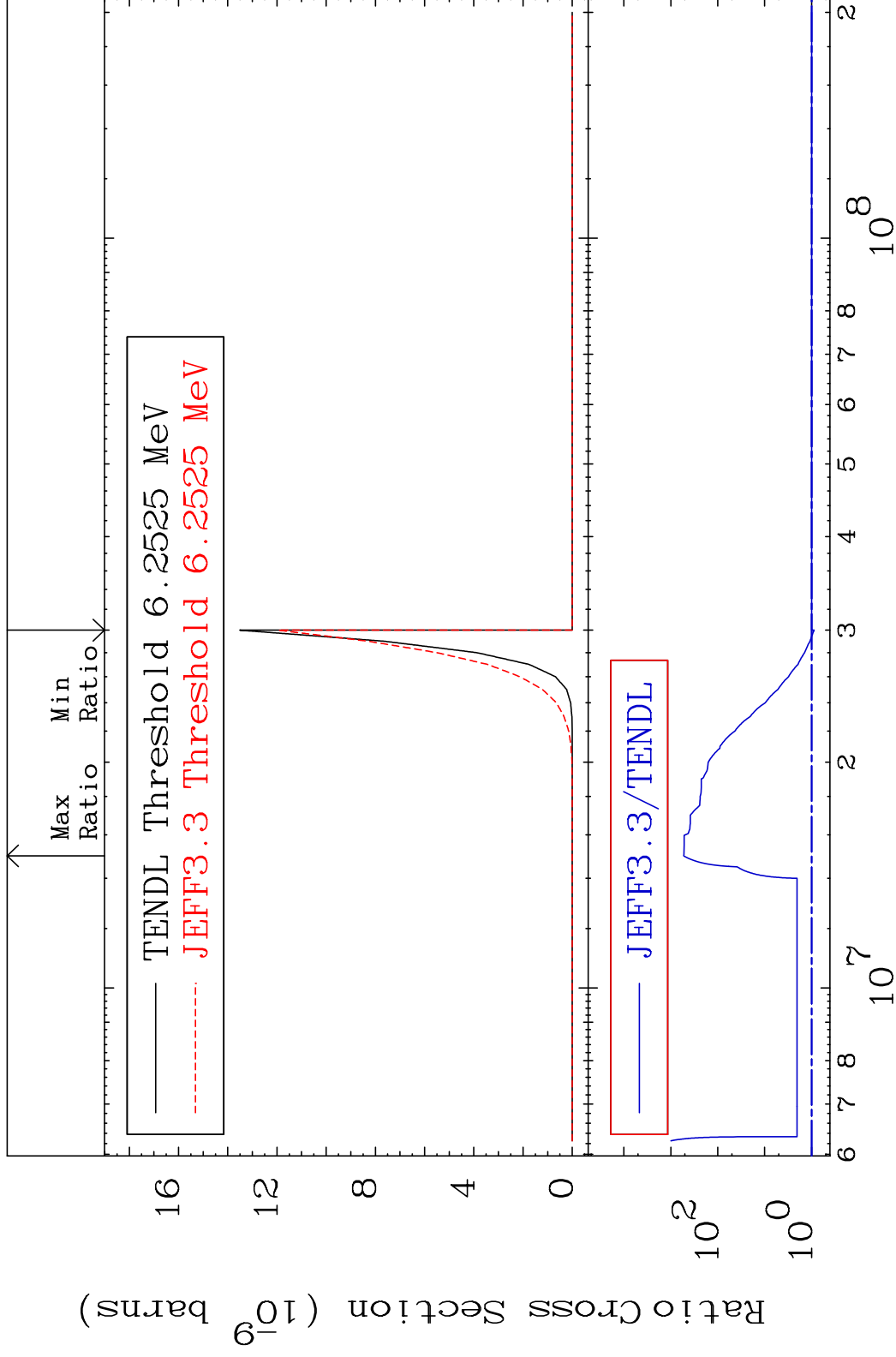
58-Ce-143

MAT 5846

(n,d) α

58-Ce-143

Cross Section -11.51 To 9999. %



62

Incident Energy (eV)

58-Ce-143

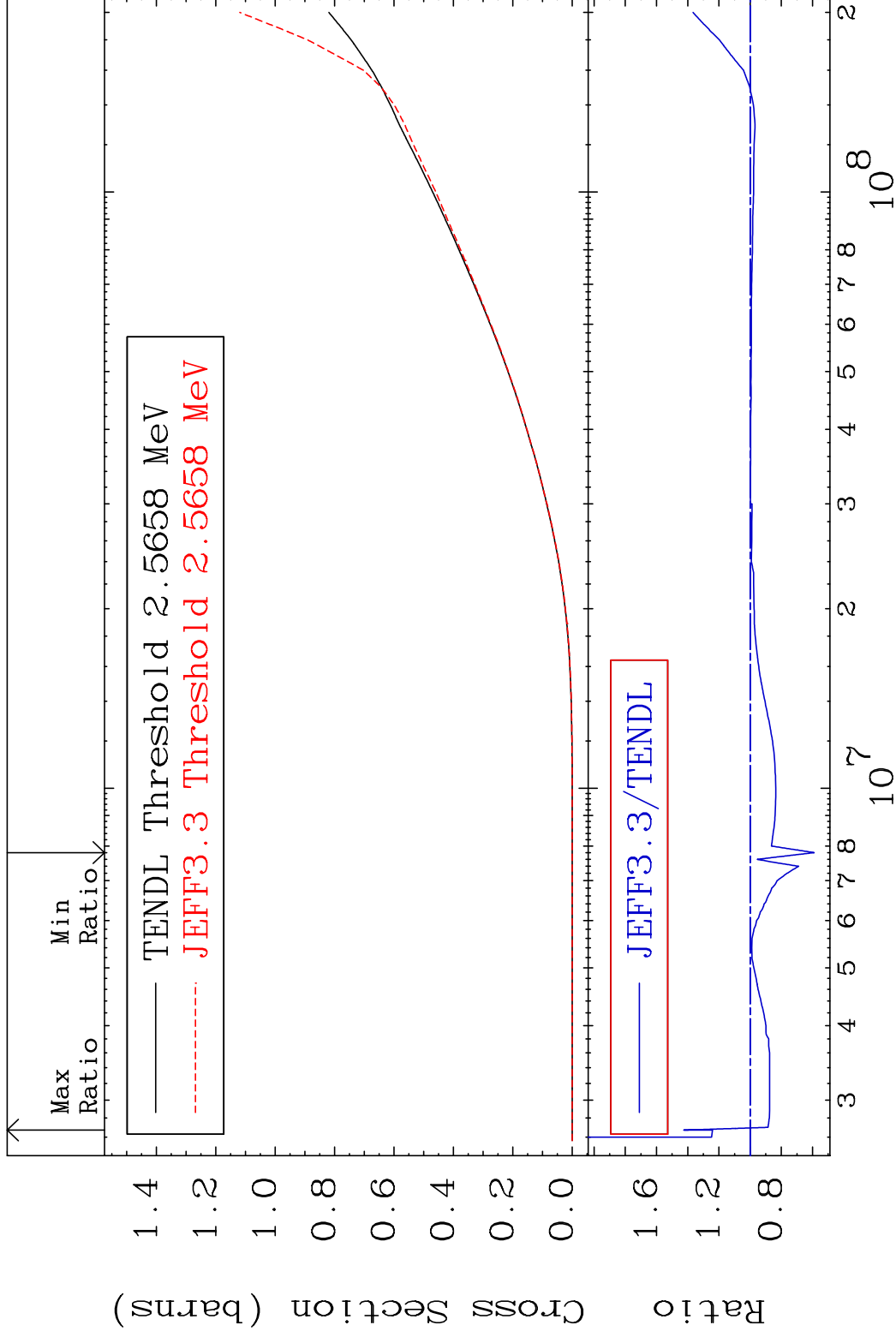
MAT 5846

Hydrogen Production

58-Ce-143

Cross Section

-40.98 To 42.60 %



63

Incident Energy (eV)

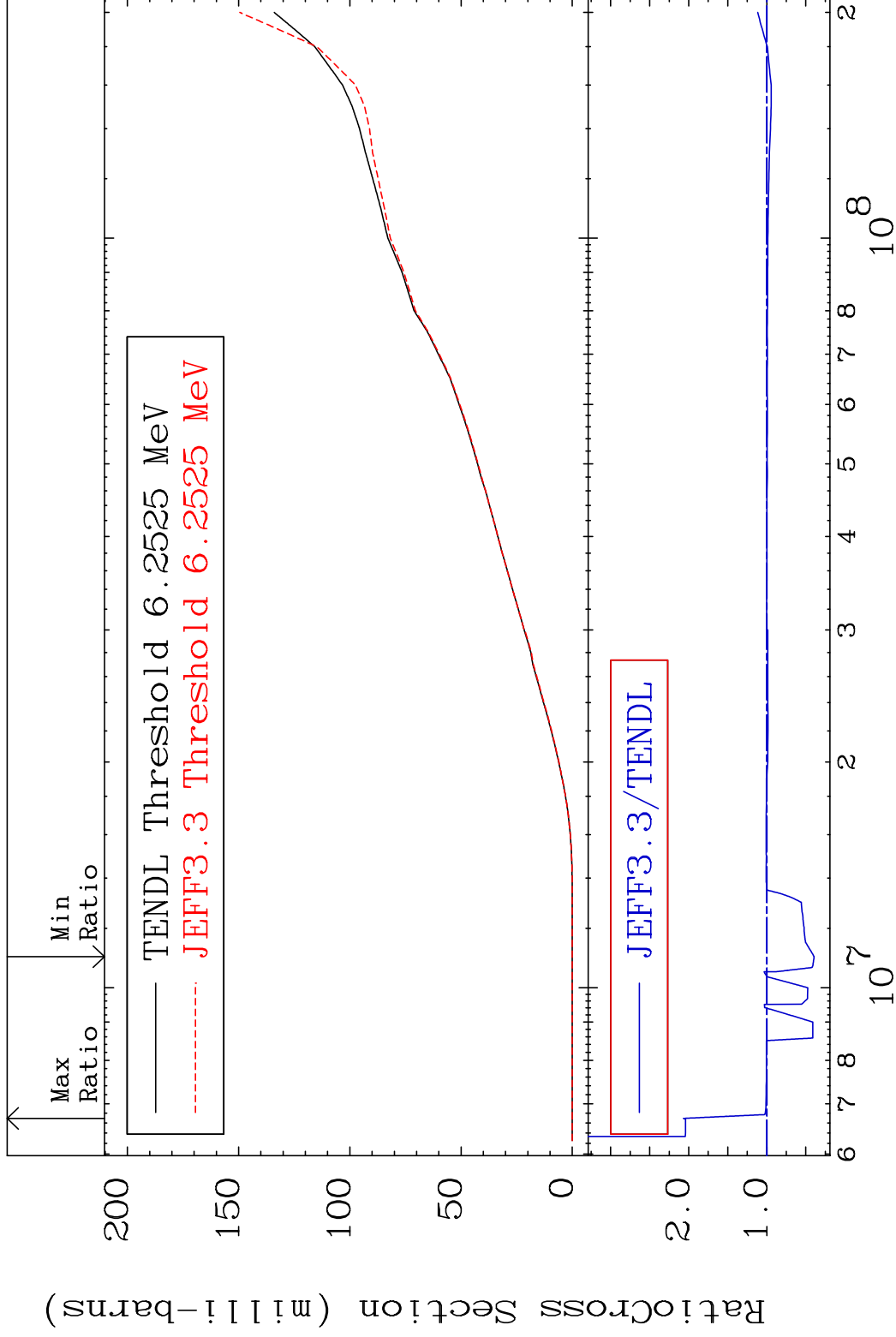
58-Ce-143

MAT 5846

Deuterium Production

58-Ce-143

Cross Section -60.65 To 106.5 %



64

Incident Energy (eV)

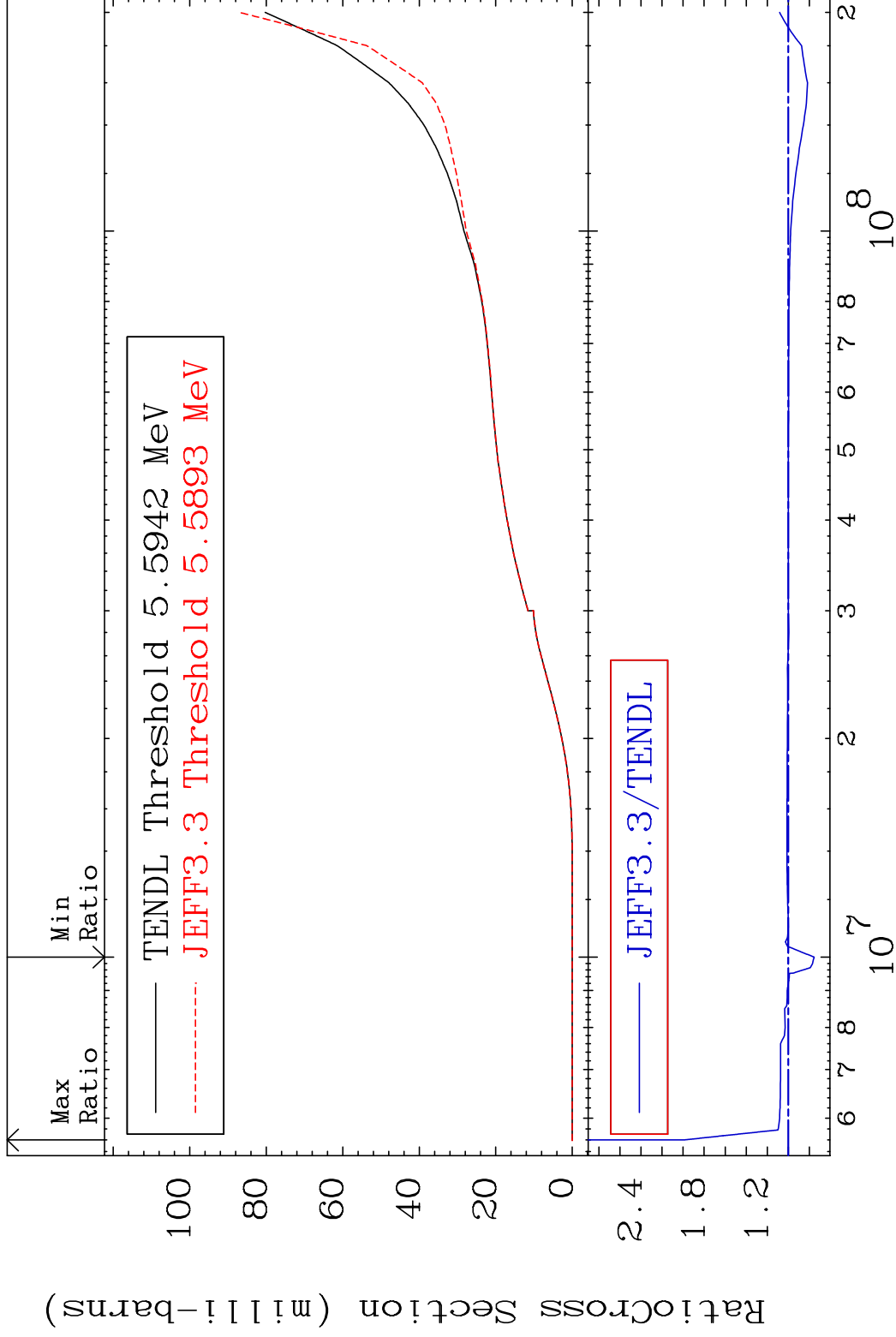
58-Ce-143

MAT 5846

Tritium Production

58-Ce-143

Cross Section -24.46 To 99.44 %



65

Incident Energy (eV)

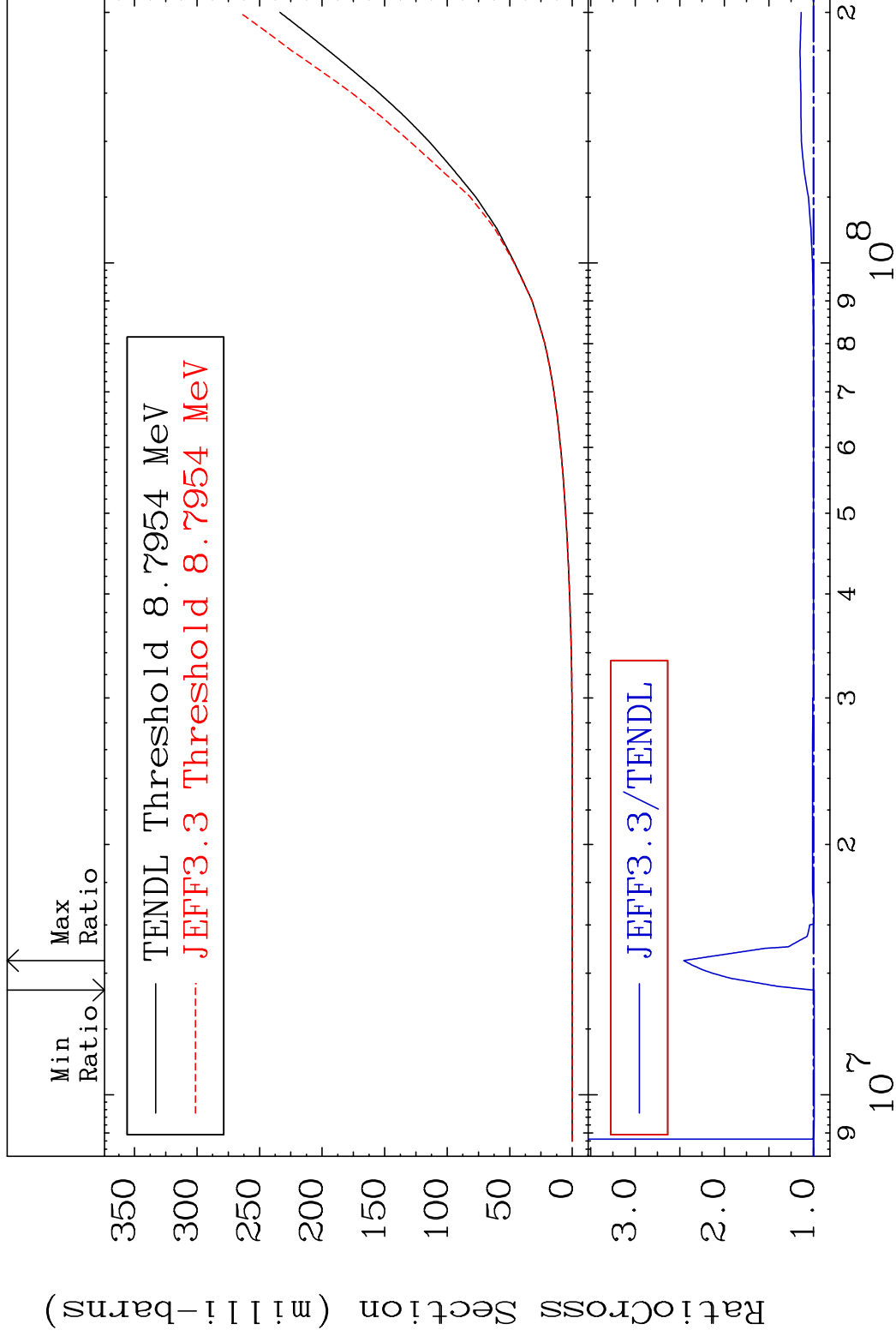
58-Ce-143

MAT 5846

He-3 Production

58-Ce-143

Cross Section -0.727 To 145.6 %



66

Incident Energy (eV)

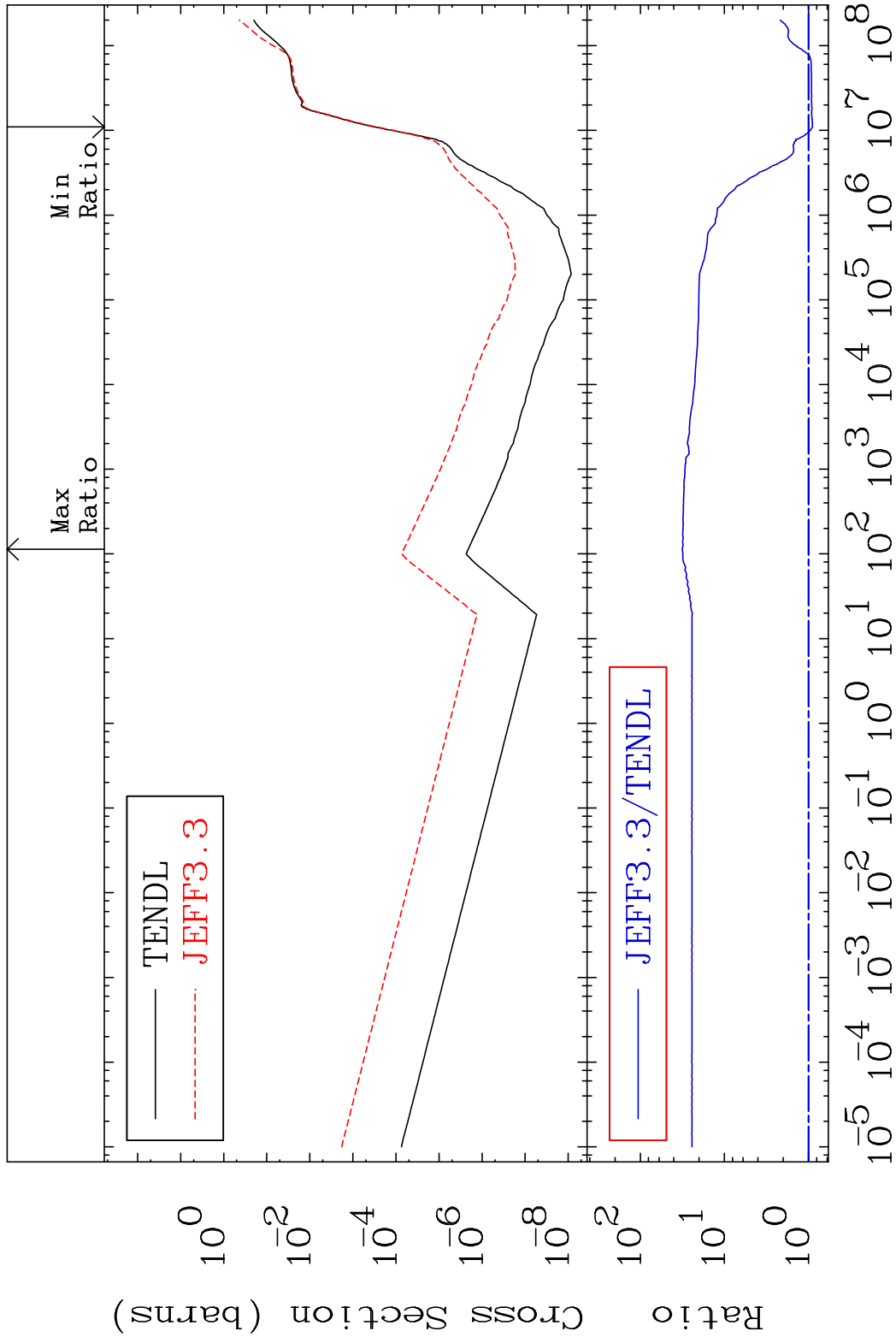
58-Ce-143

MAT 5846

He-4 Production

58-Ce-143

Cross Section -10.35 To 3067. %

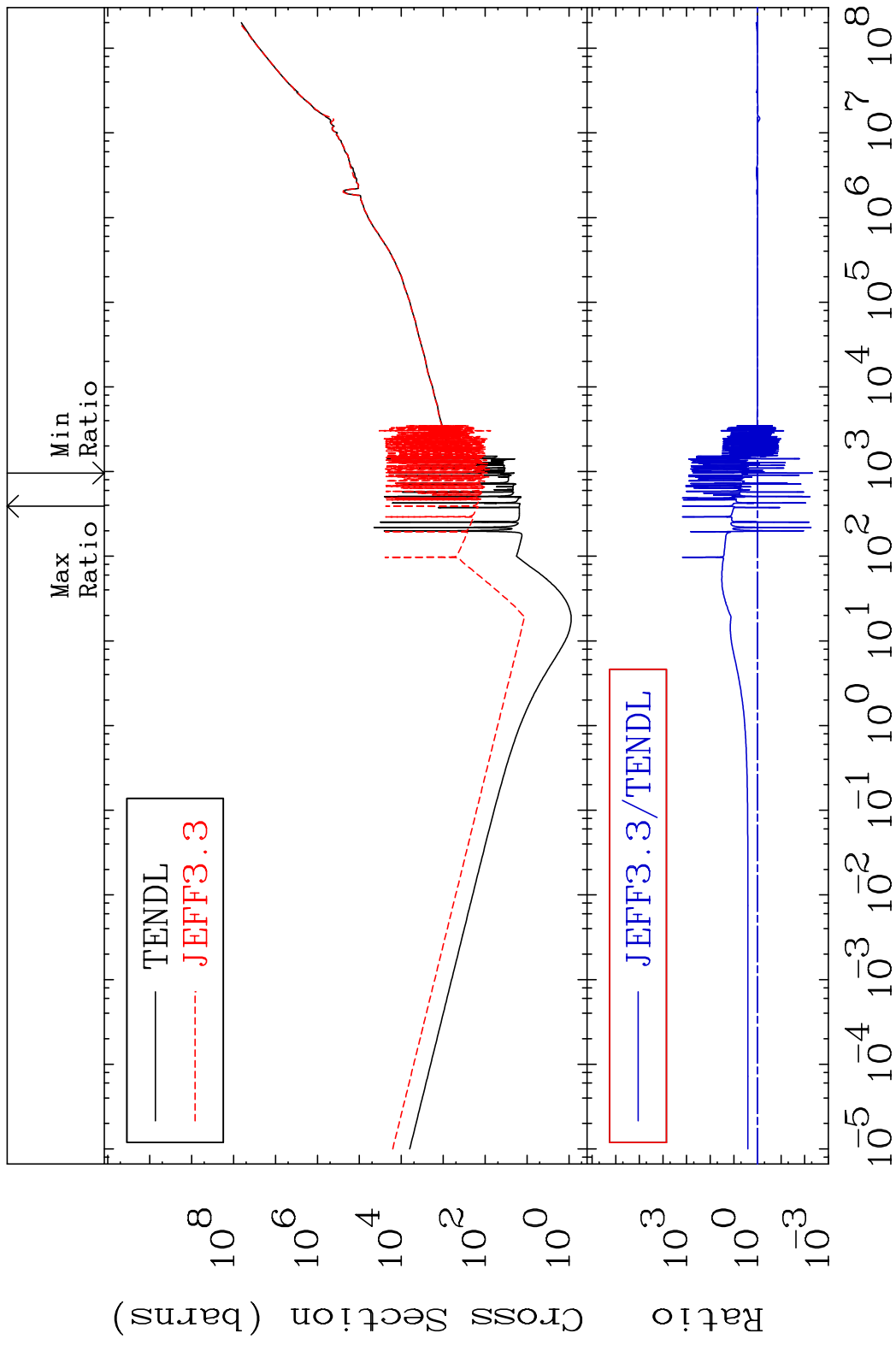


67

Incident Energy (eV)

58-Ce-143

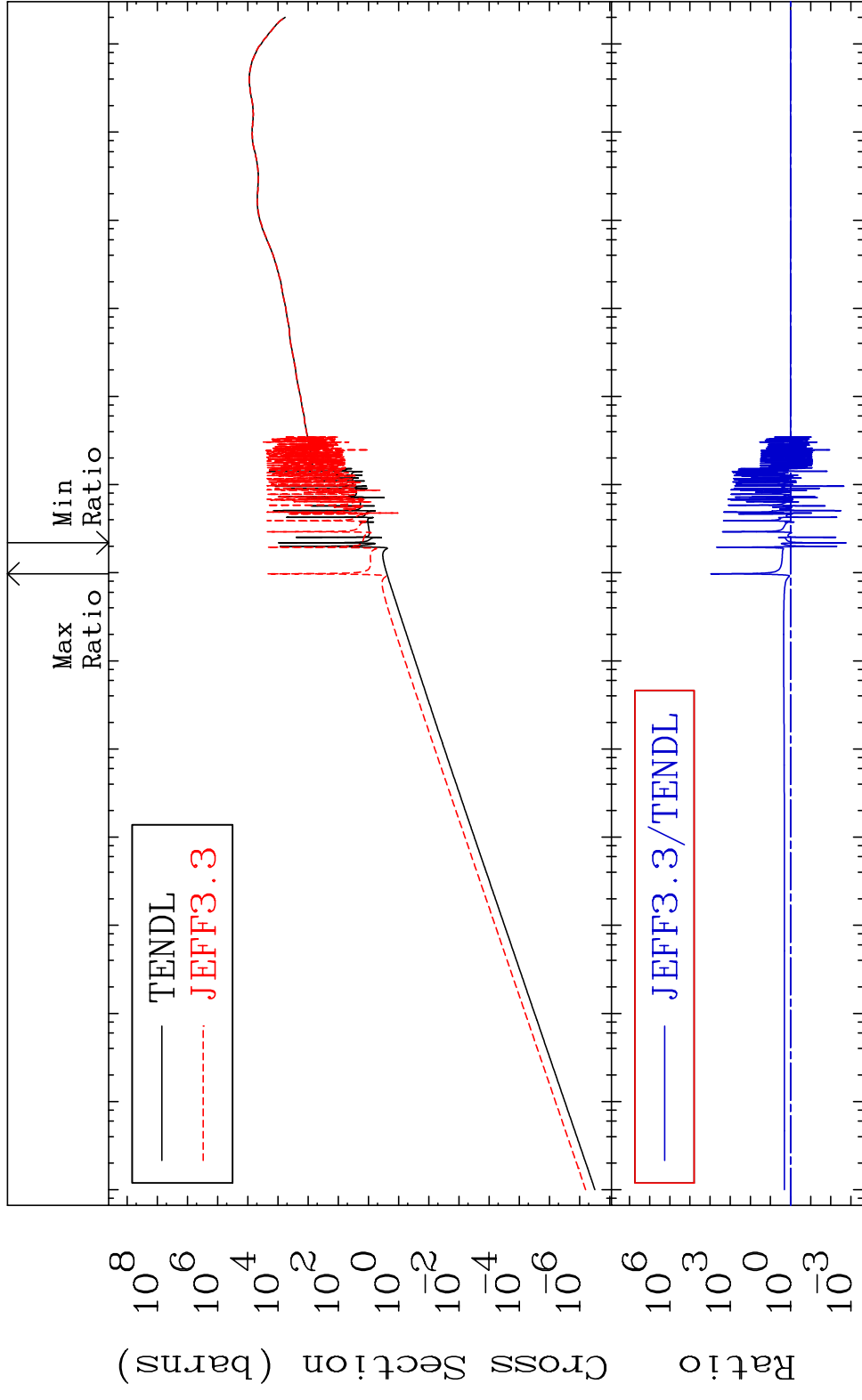
MAT 5846 Kerma total (eV-barns) 58-Ce-143
 Cross Section -99.54 To 9999. %



MAT 5846

Kerma elastic
Cross Section

58-Ce-143
-99.83 To 9999. %

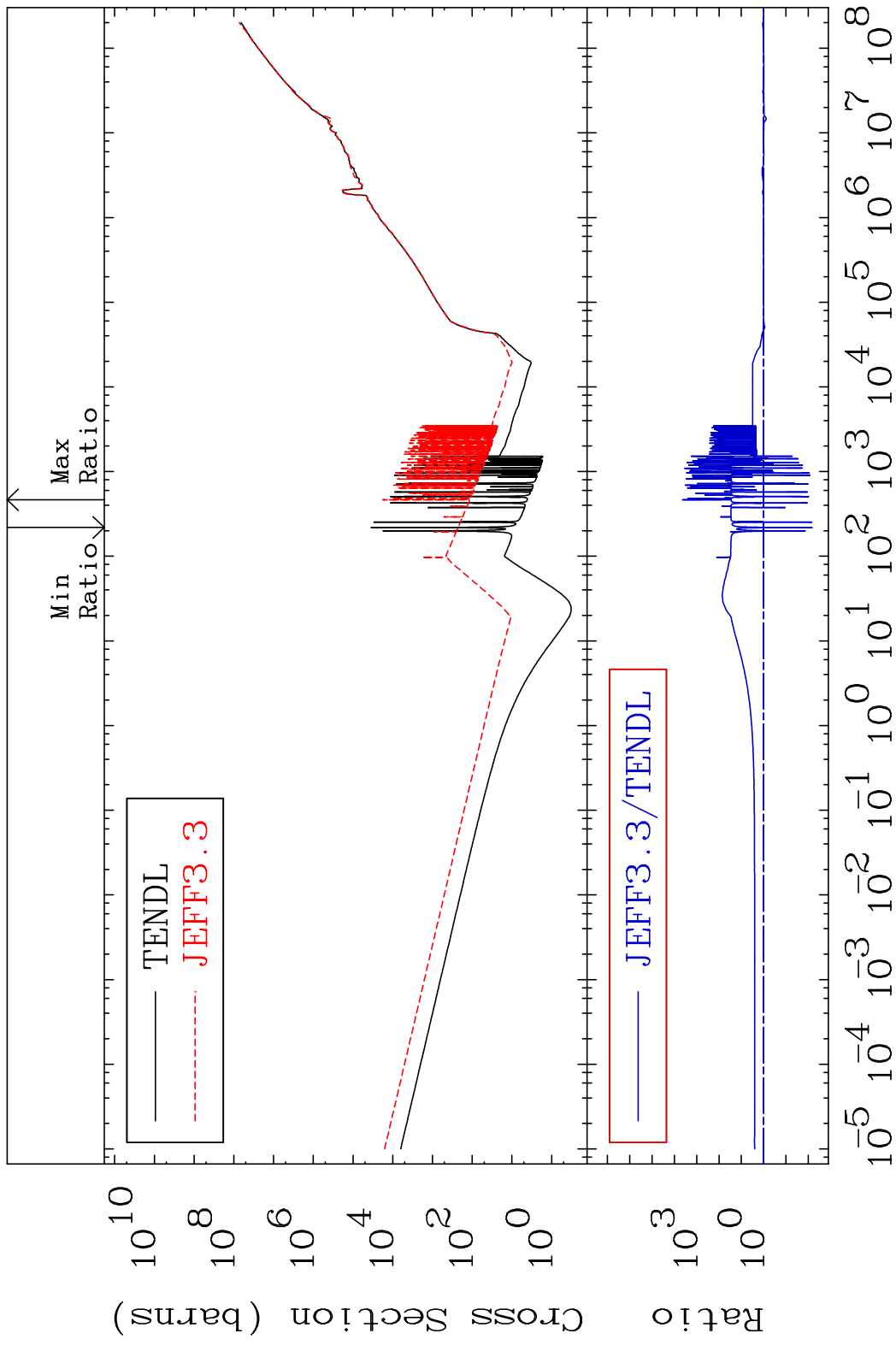


69

Incident Energy (eV)

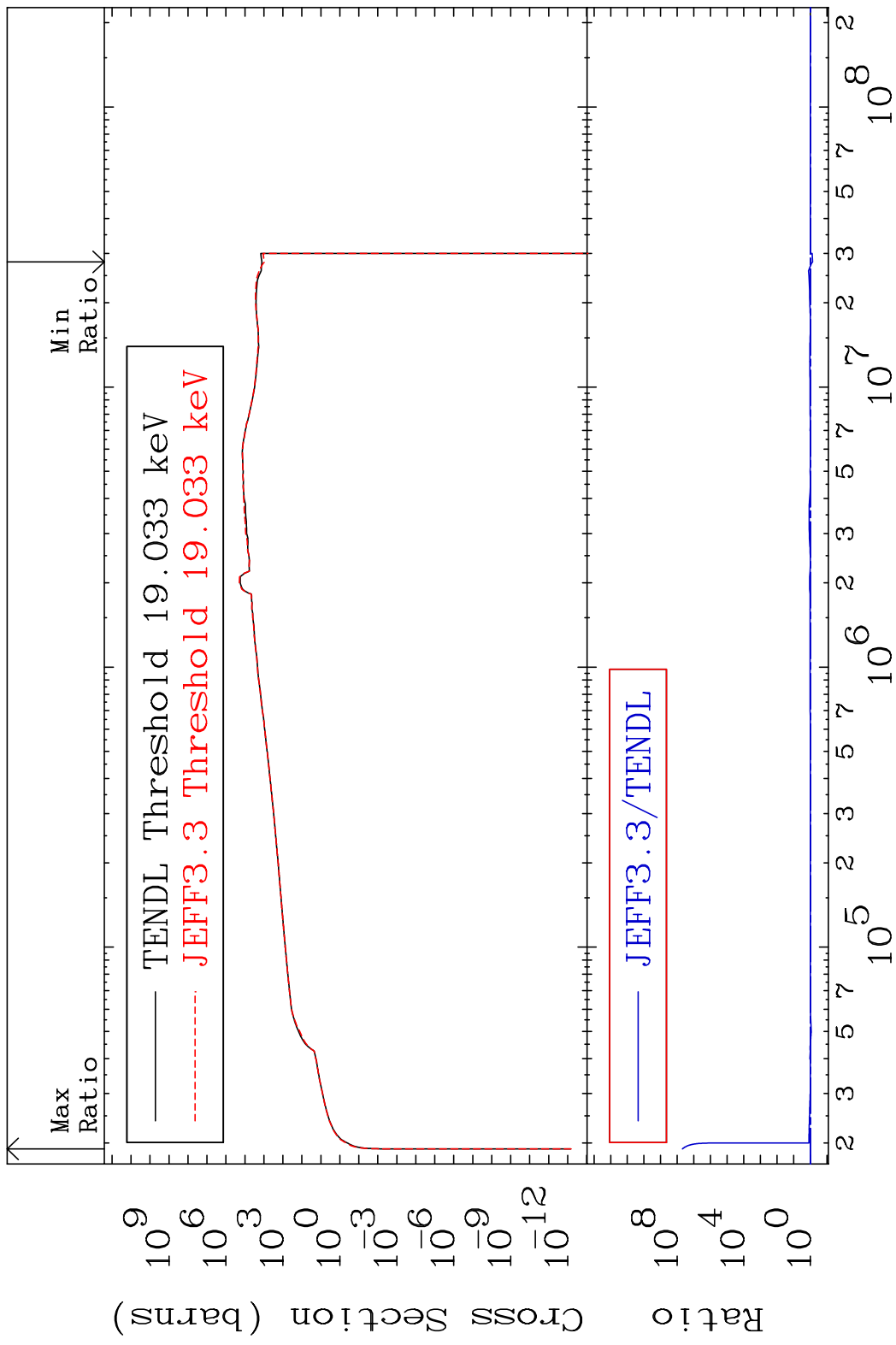
58-Ce-143

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

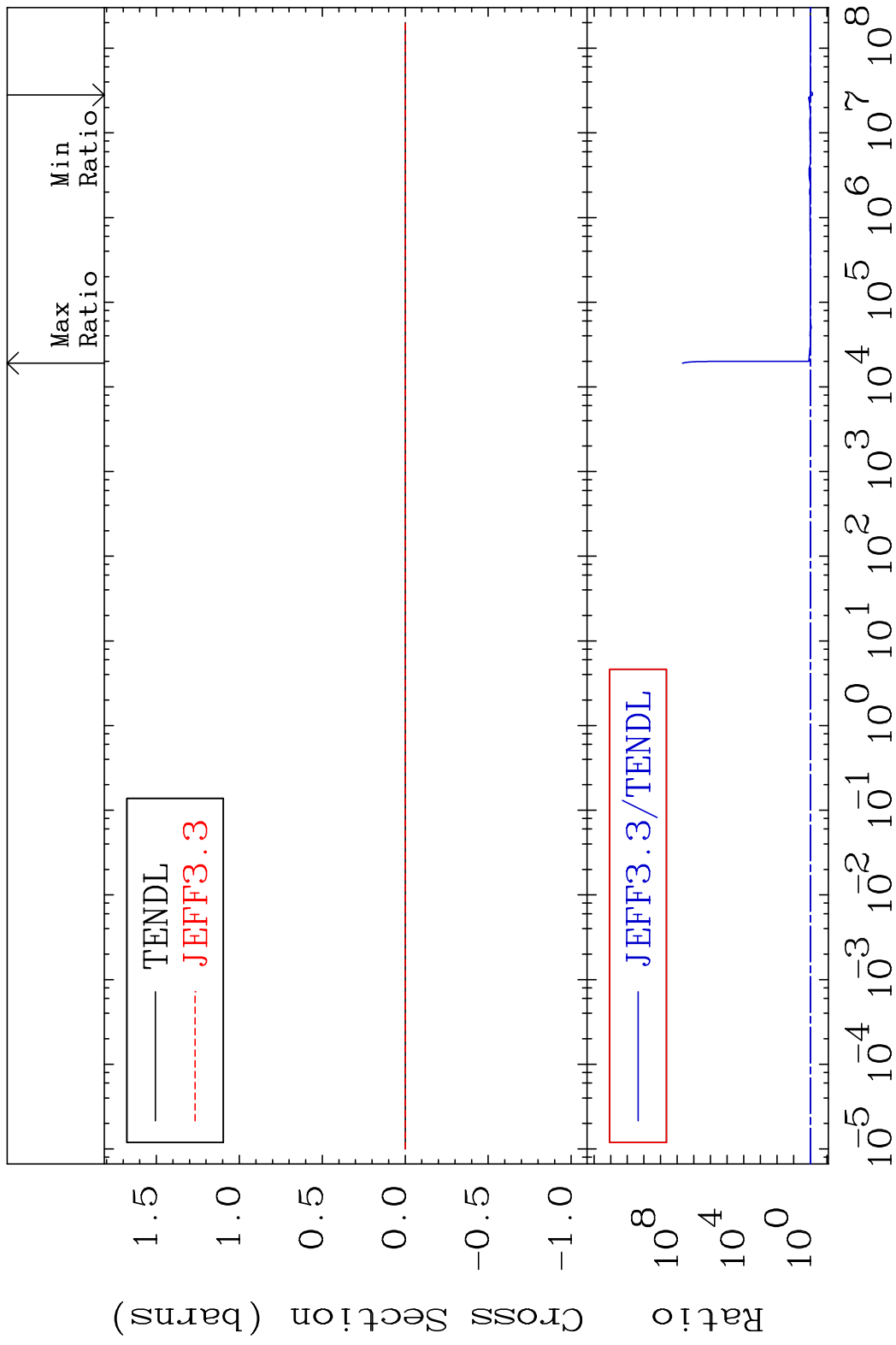


70 Incident Energy (eV) 58-Ce-143

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



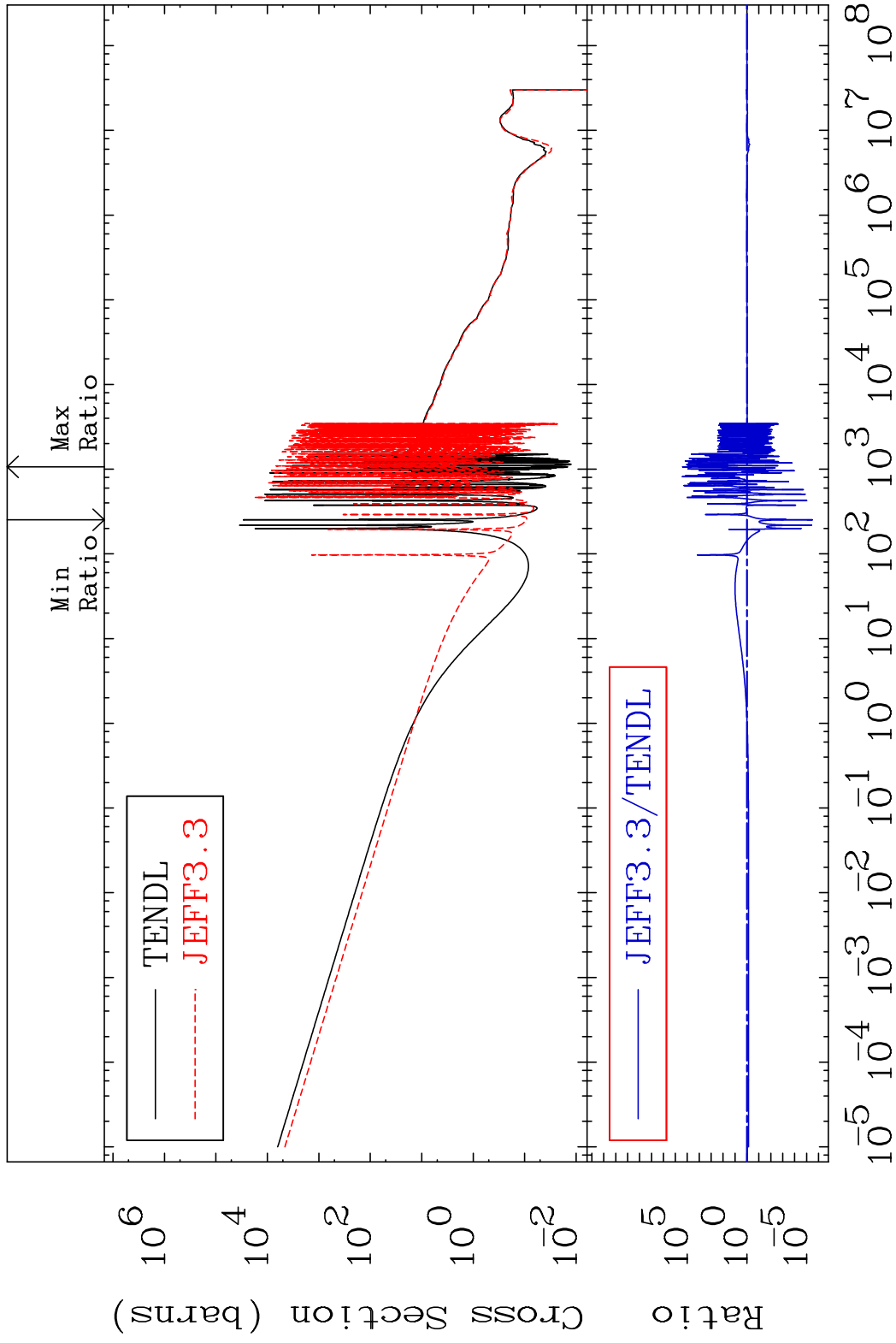
MAT 5846 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-143
 Cross Section -27.40 To 9999. %



MAT 5846

Kerma capture (mt102) 58-Ce-143

Cross Section -100.0 To 9999. %



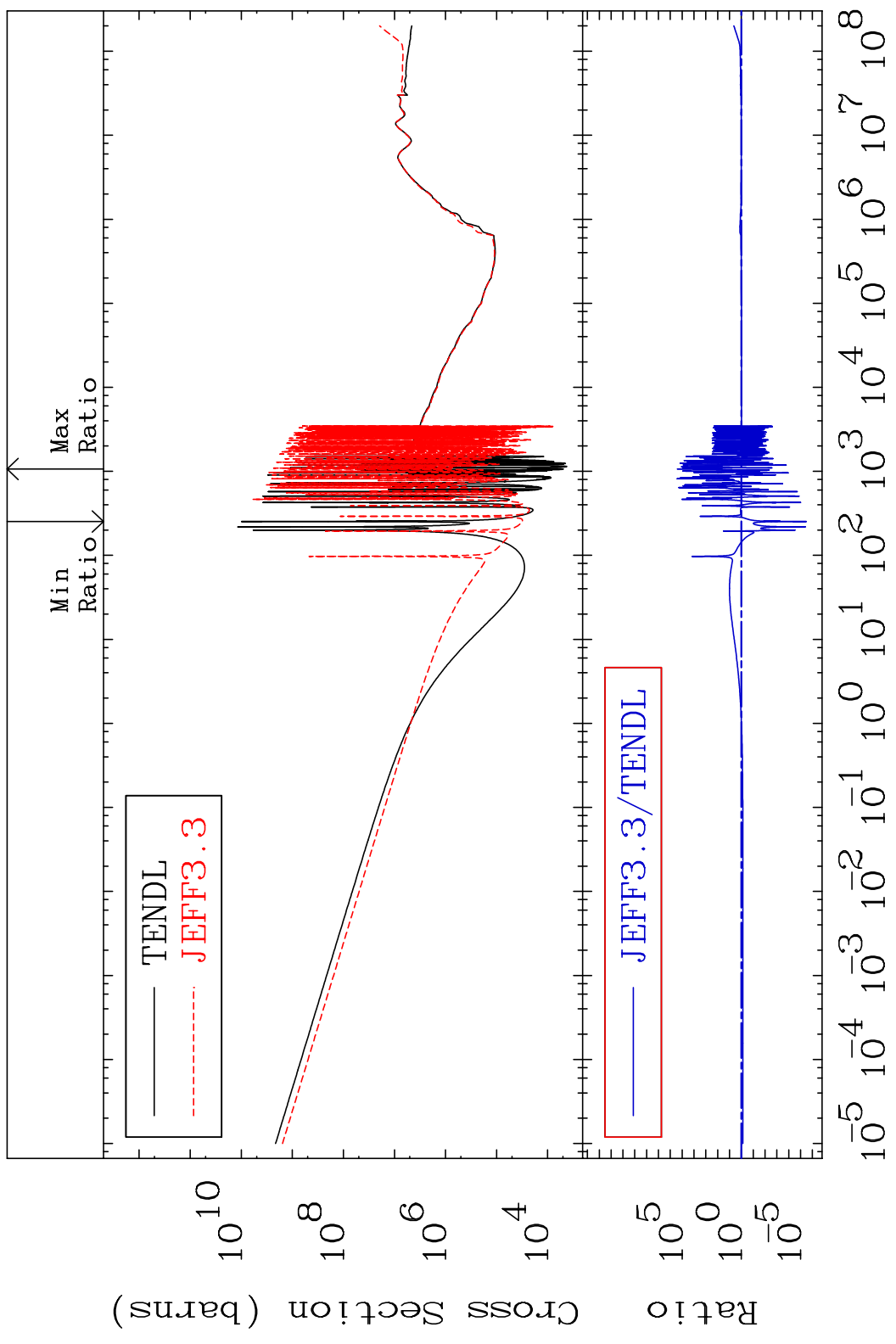
73

Incident Energy (eV)

58-Ce-143

MAT 5846

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

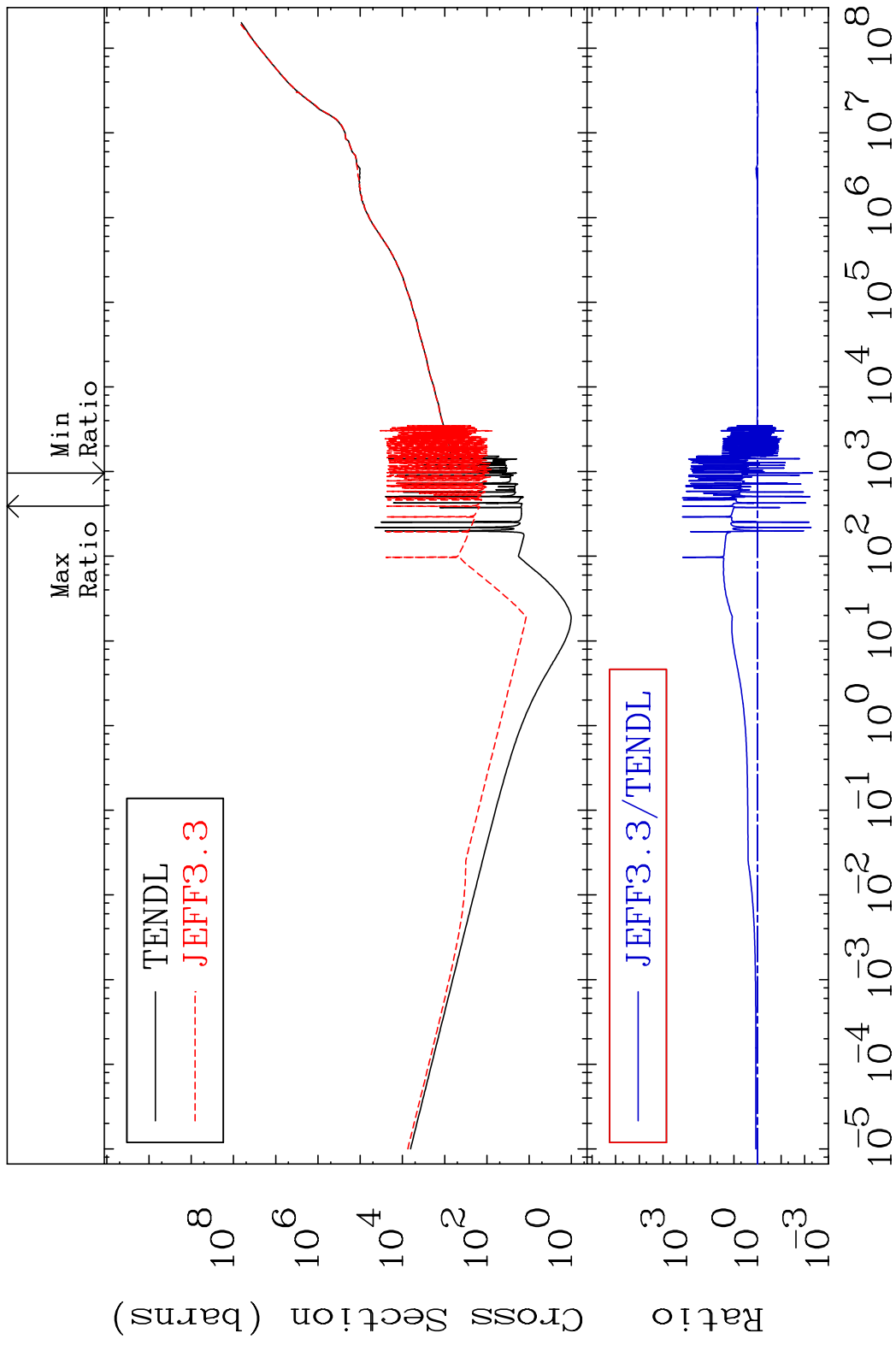


74

Incident Energy (eV)

58-Ce-143

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

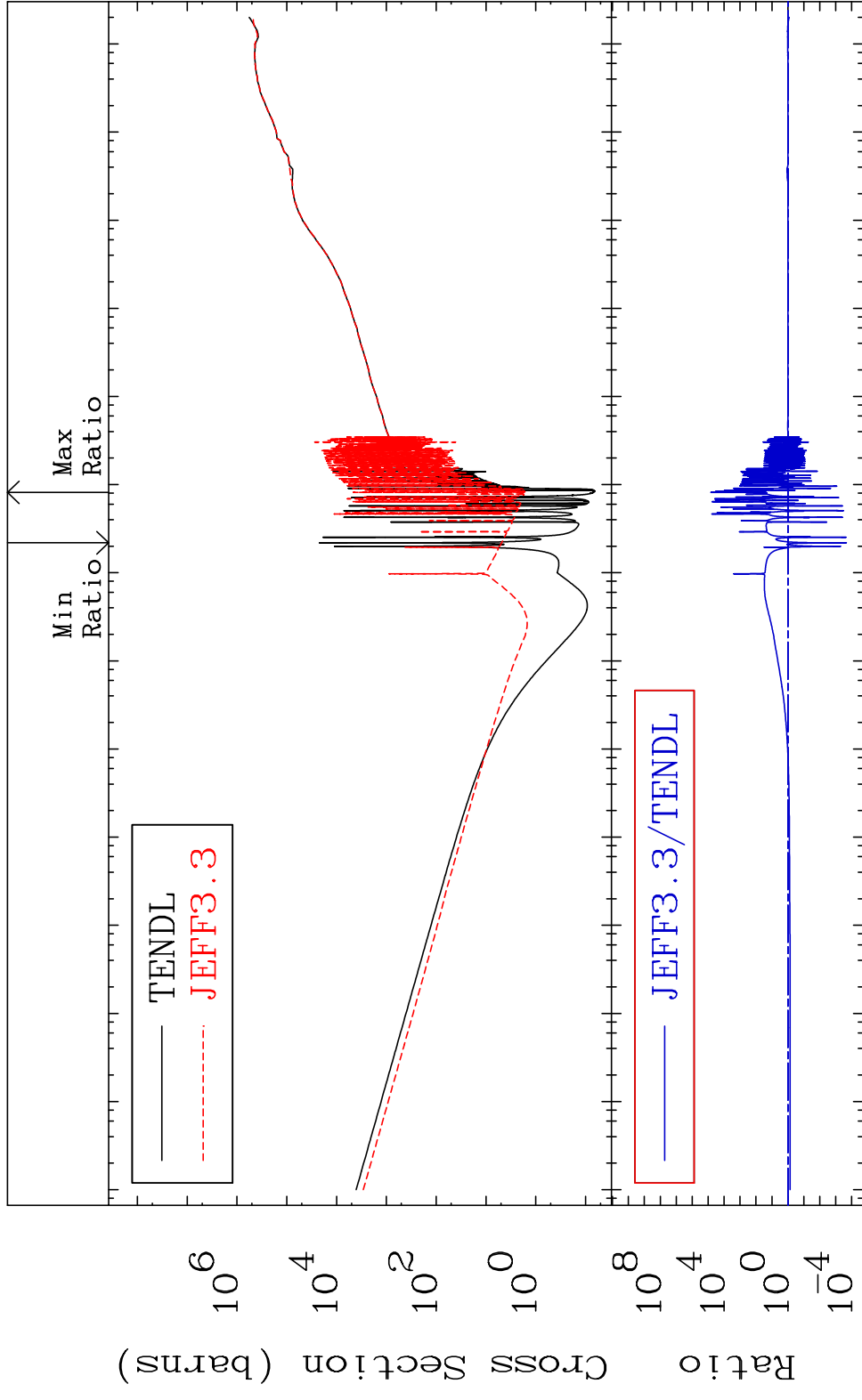


MAT 5846

Dpa total (eV-barns)

58-Ce-143

Cross Section -99.98 To 9999. %



76

Incident Energy (eV)

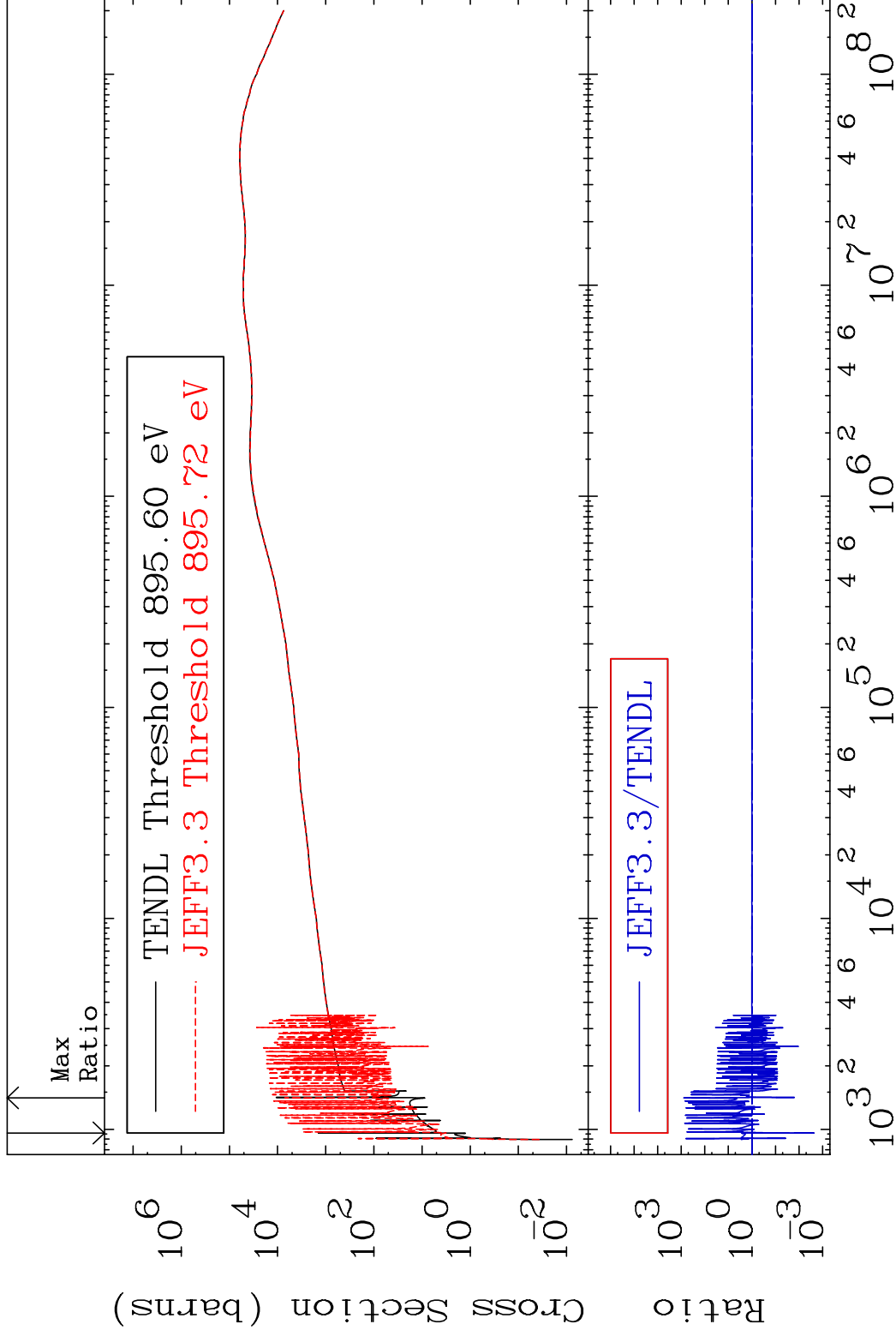
58-Ce-143

MAT 5846

Dpa elastic (mt2)

58-Ce-143

Cross Section -99.777 To 9999. %

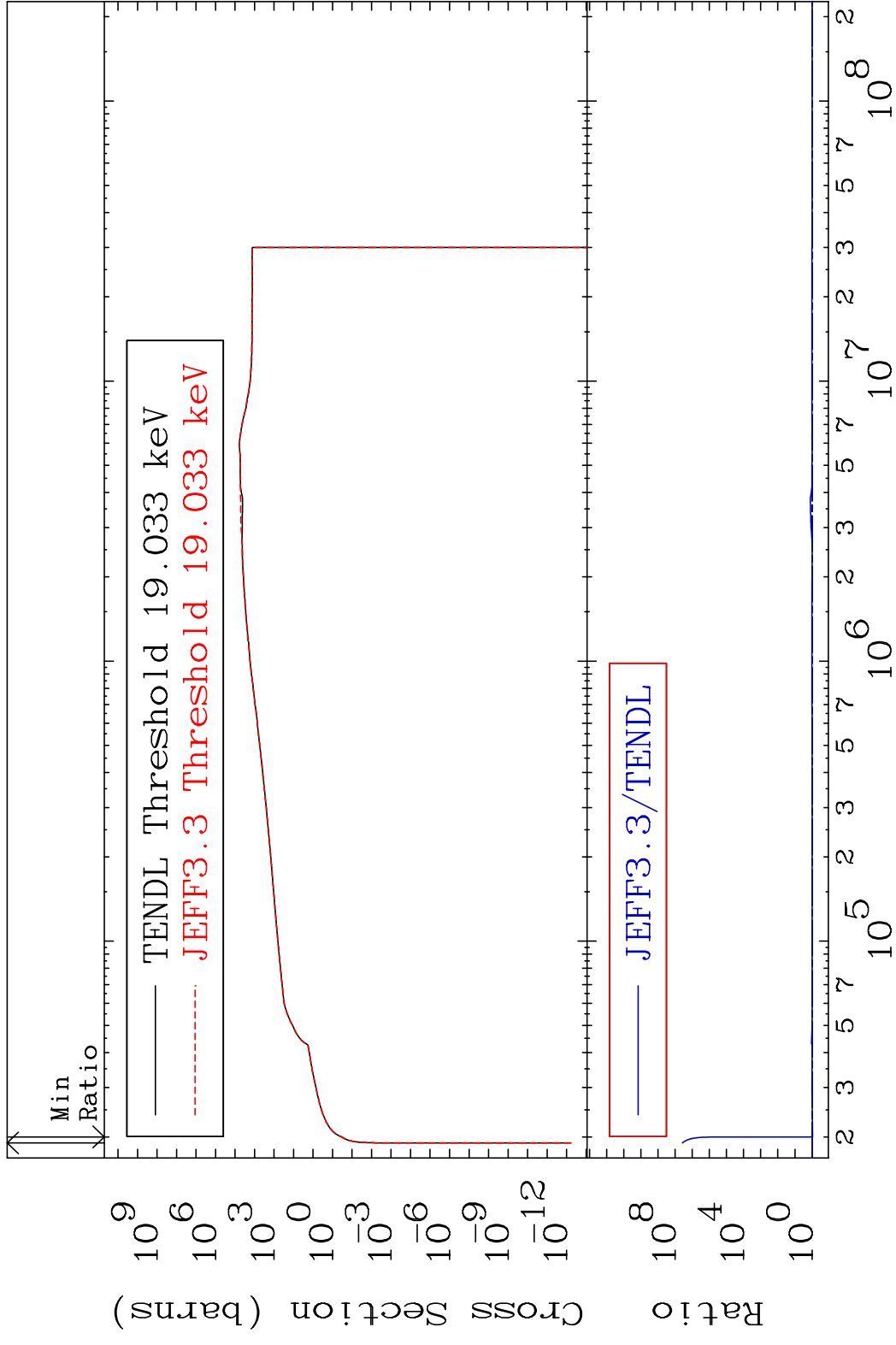


77

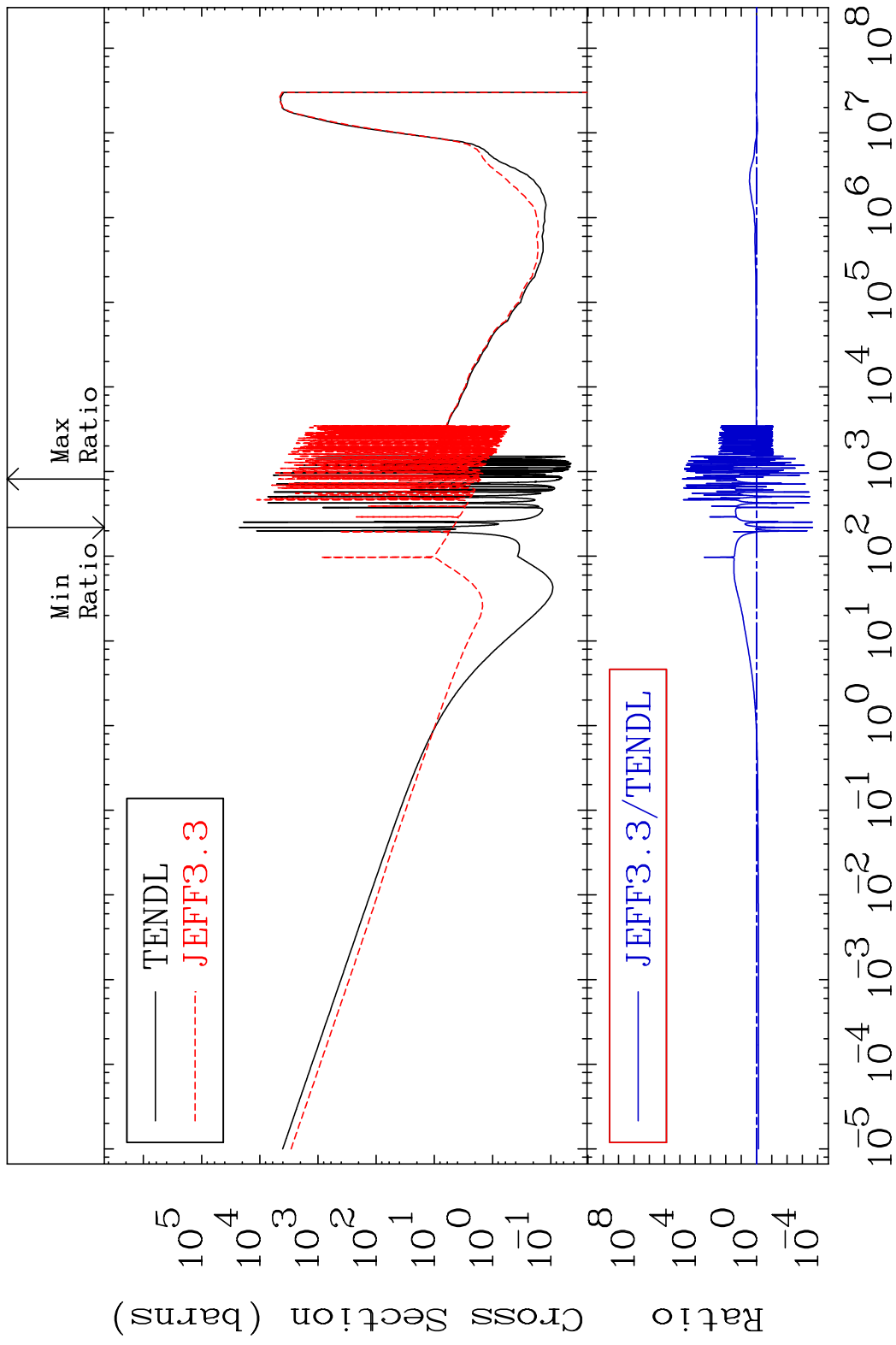
Incident Energy (eV)

58-Ce-143

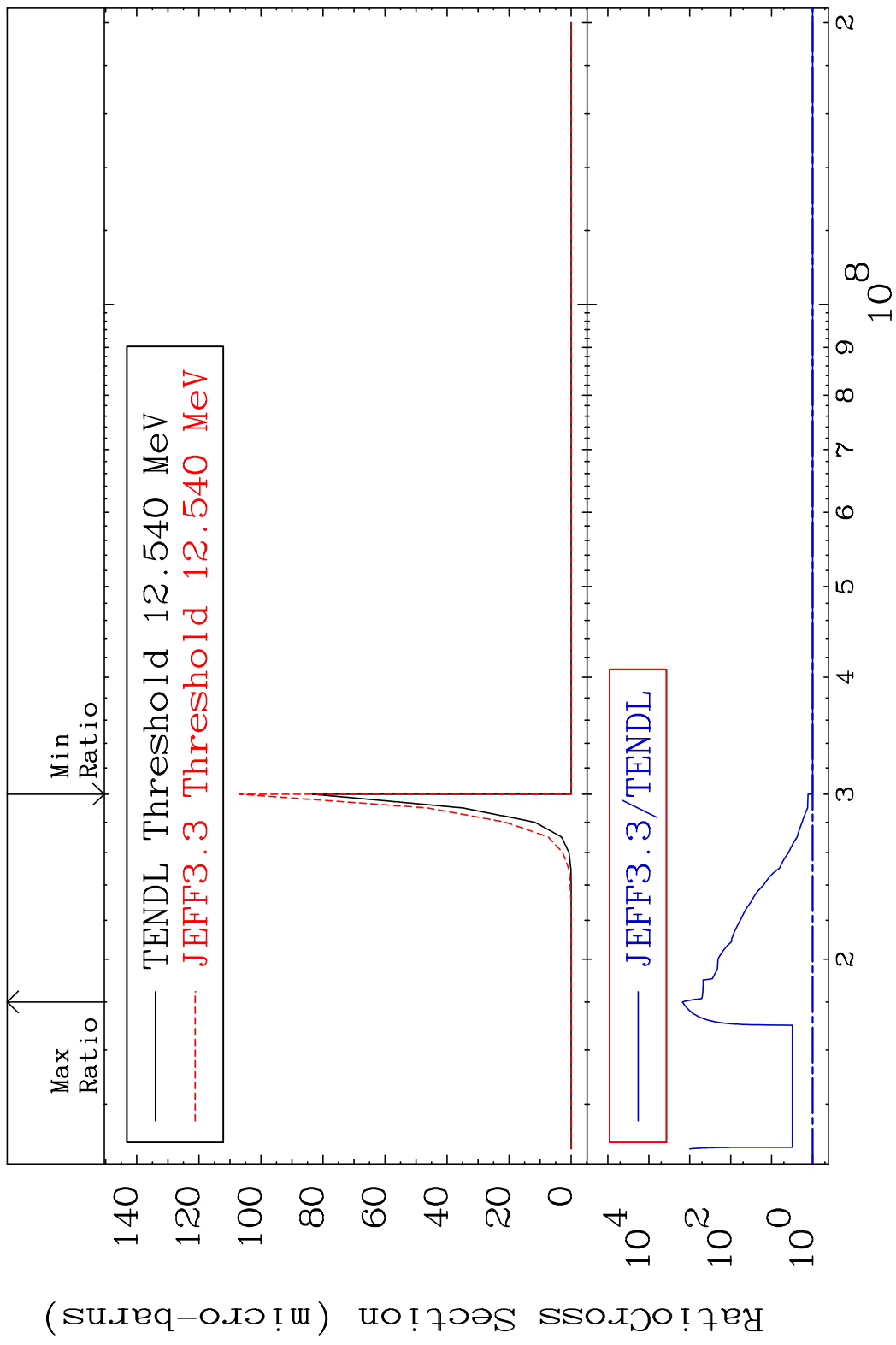
MAT 5846 Dpa inelastic (mt51-91) 58-Ce-143
 Cross Section -6.455 To 9999. %

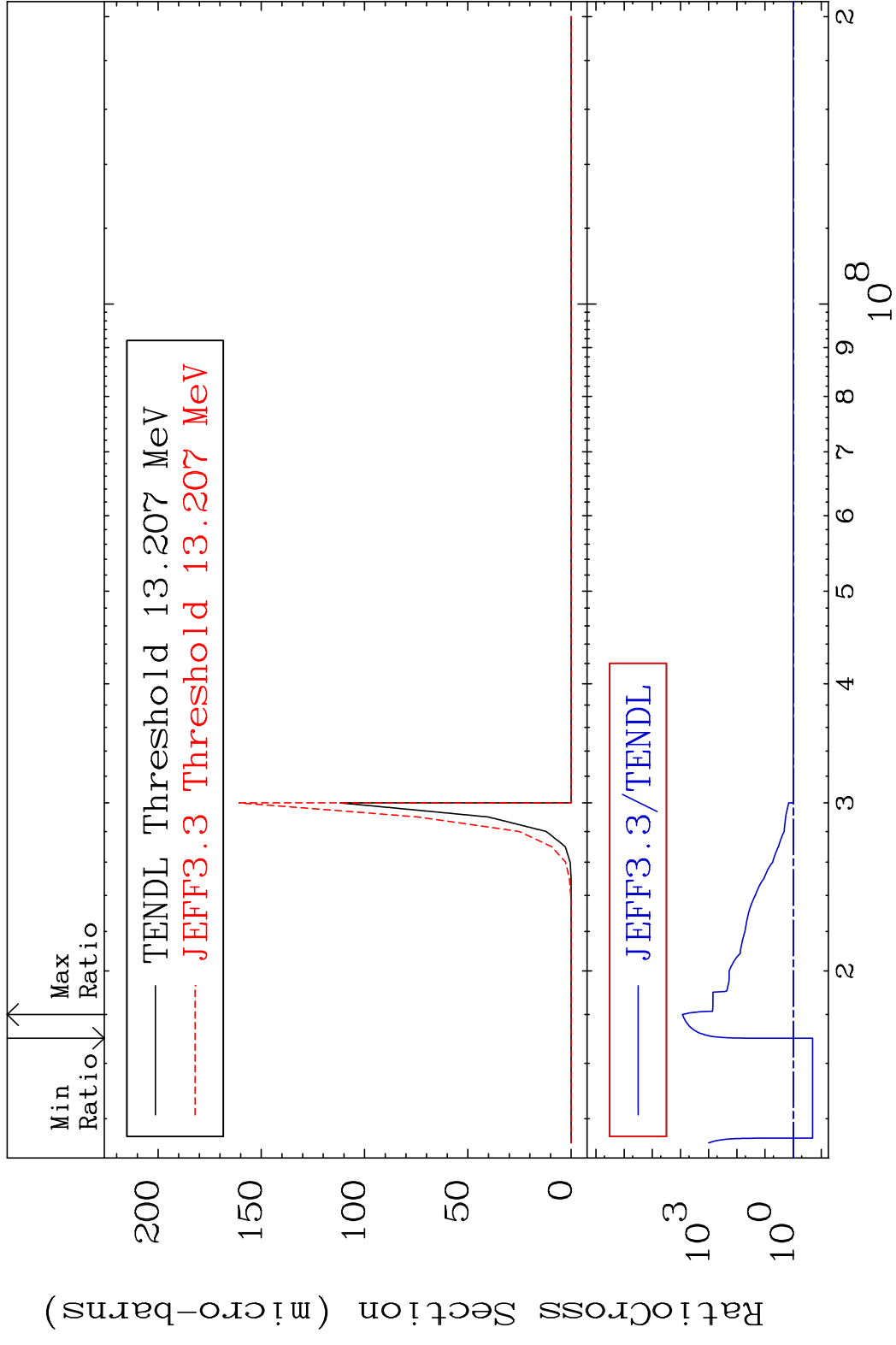


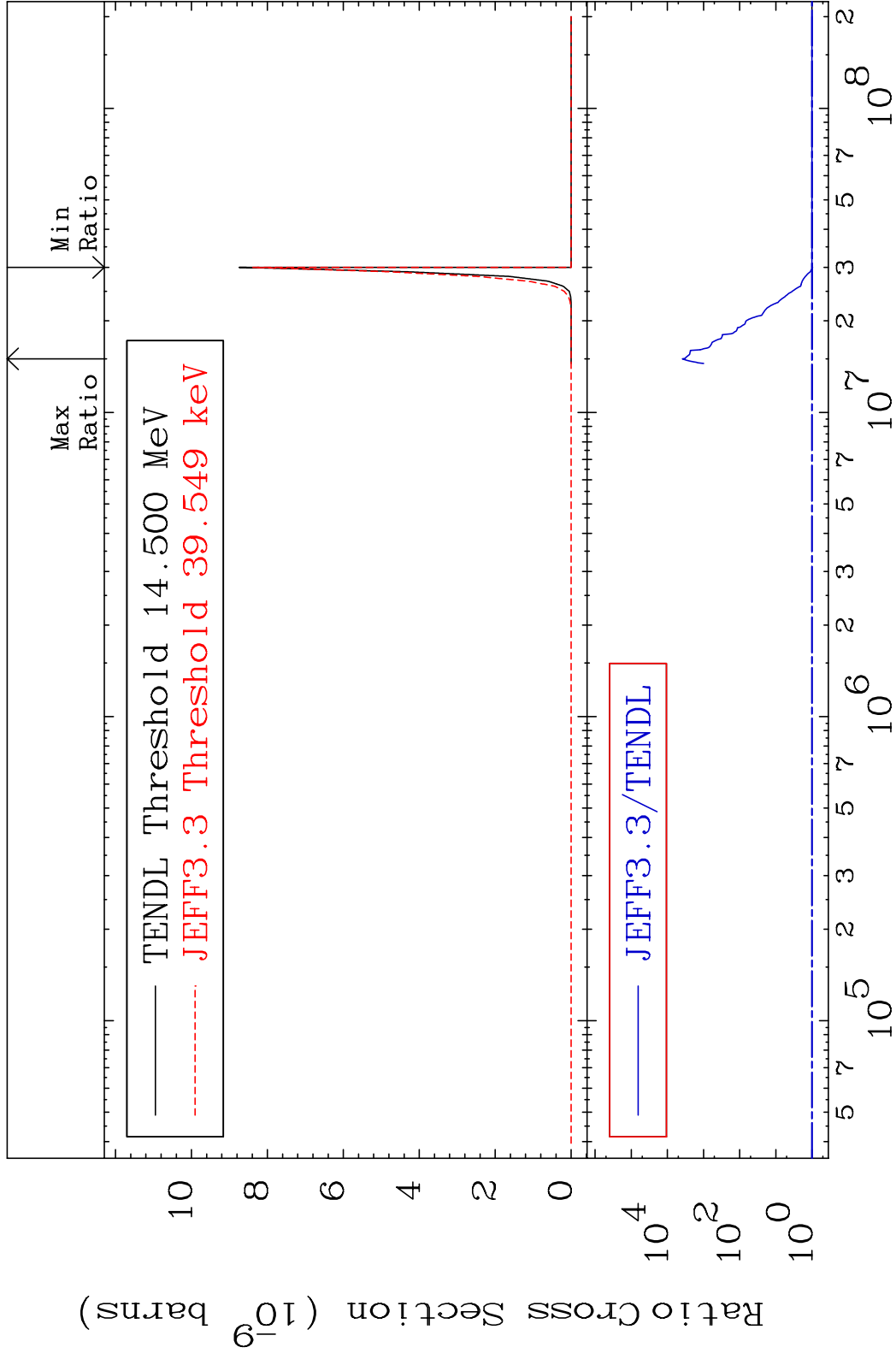
MAT 5846 Dpa disappearance (mt102 -120) 58-Ce-143
 Cross Section -99.98 To 9999. %

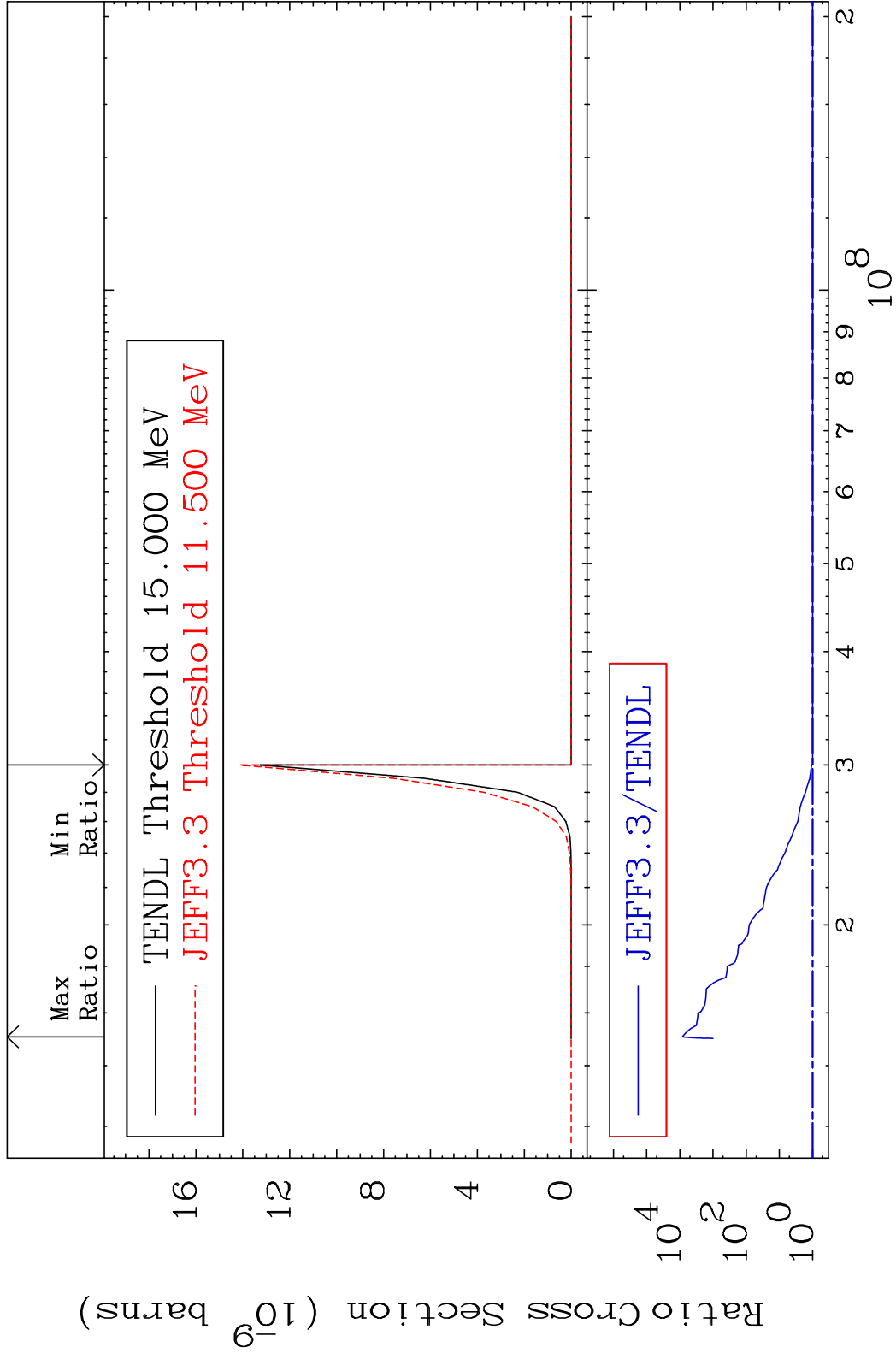


MAT 5846 (n,3n) α :56-Ba-137g 58-Ce-143
 Radionuclide Production Cross Section 9999. %

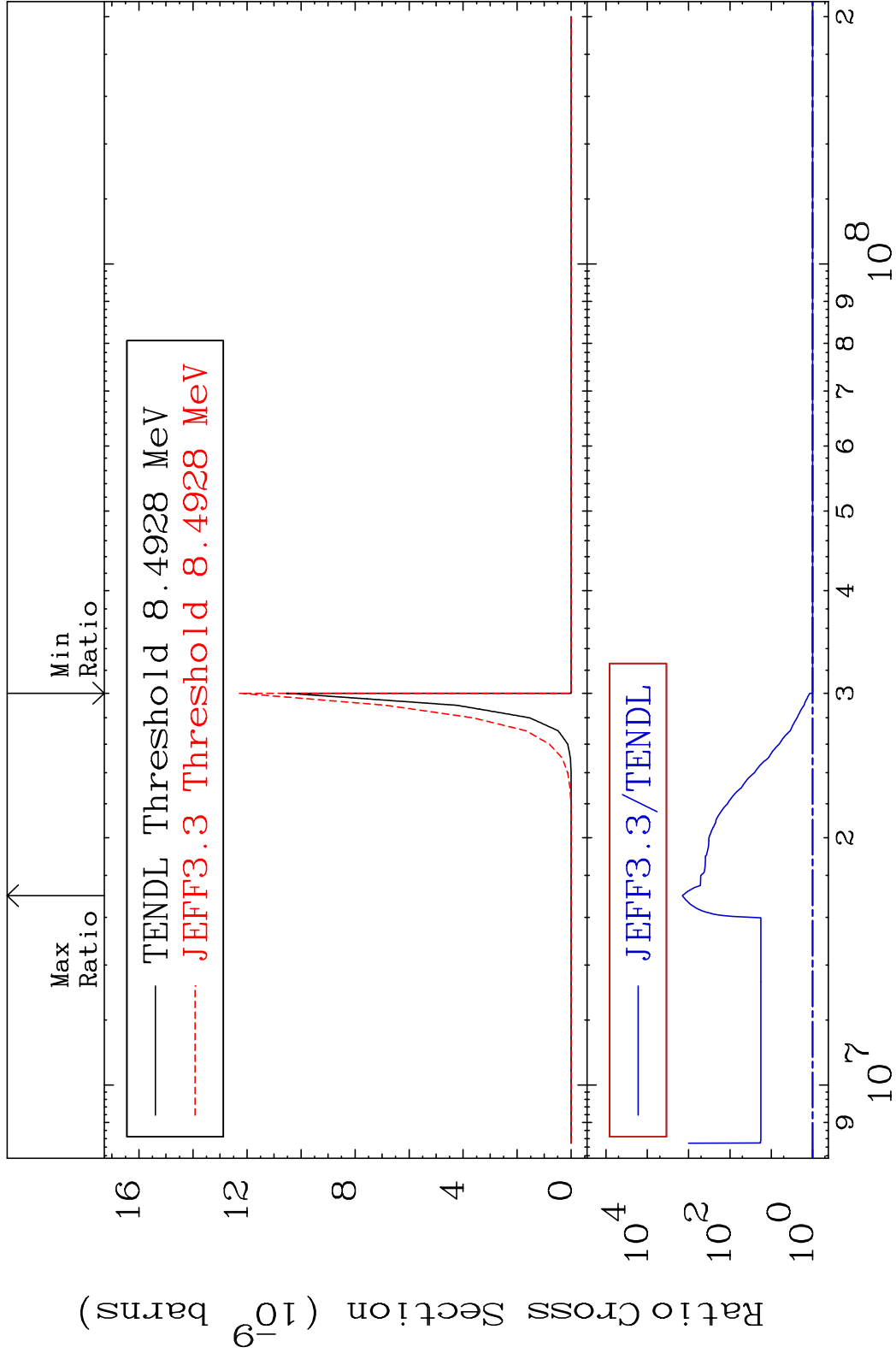




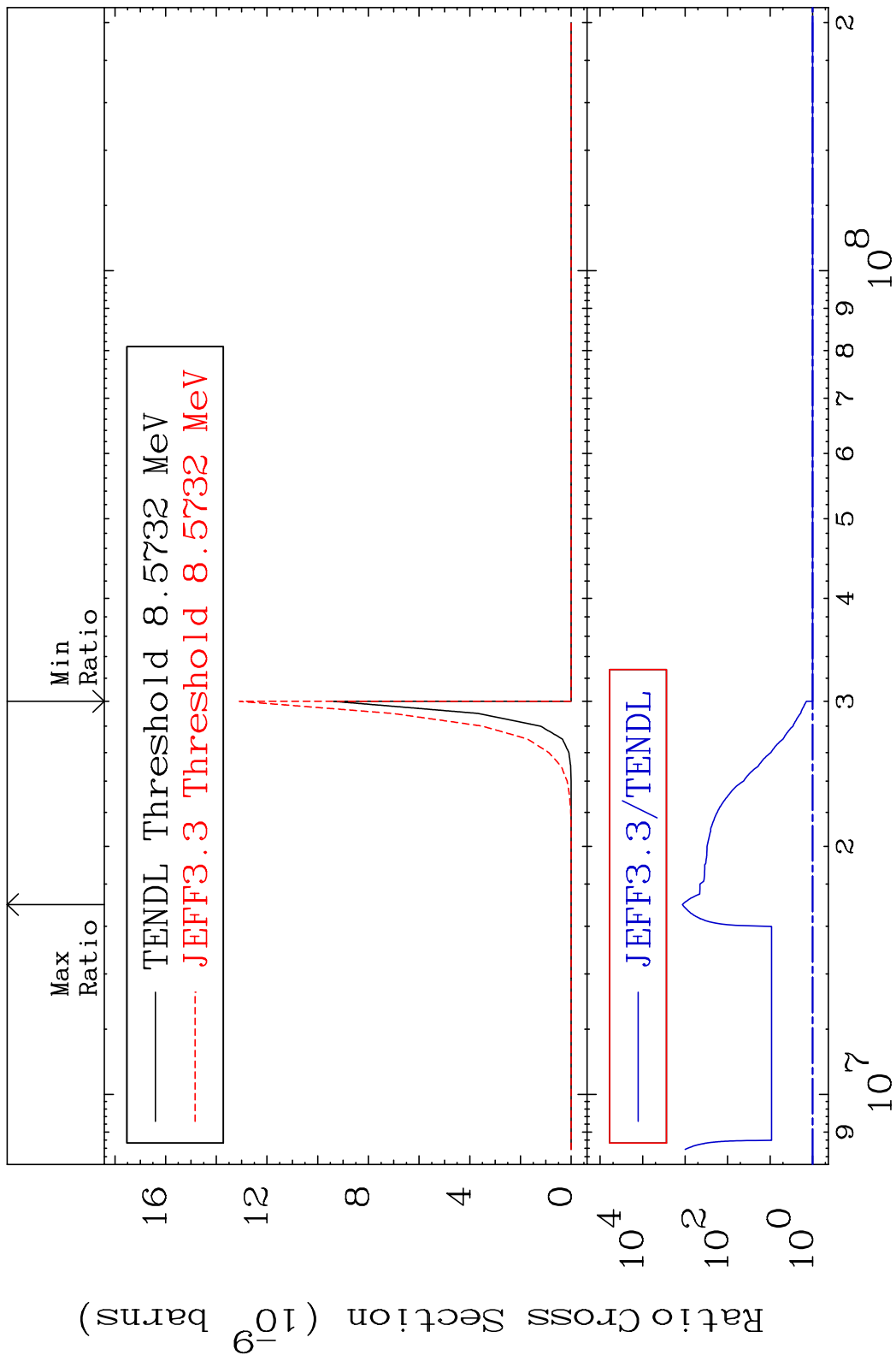




MAT 5846 (n,n') p α:55-Cs-138g 58-Ce-143
 Radionuclide Production Cross Section, %



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



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

