

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

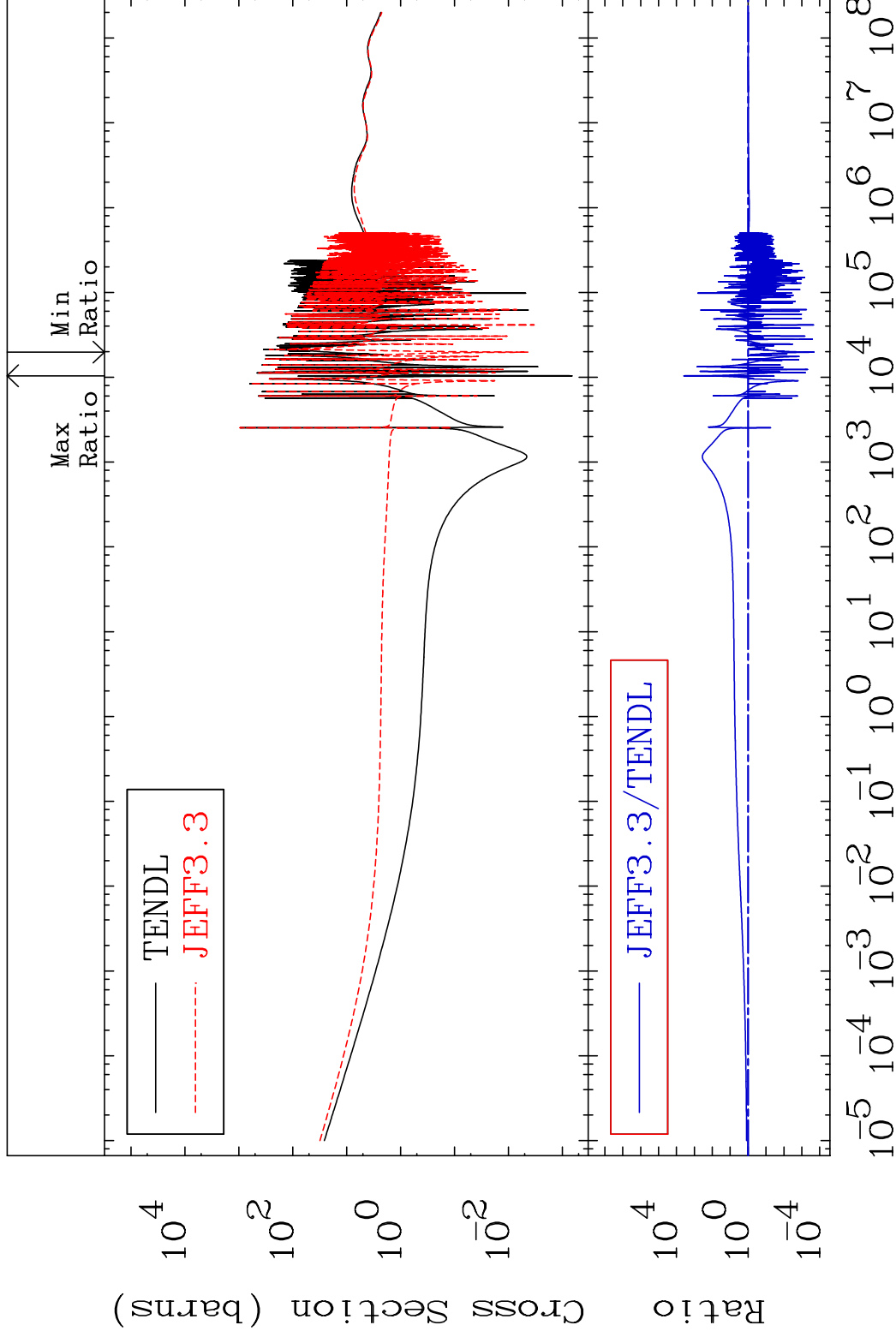
MAT 5837

Total

58-Ce-140

Cross Section

-99.98 To 9999. %



1

Incident Energy (eV)

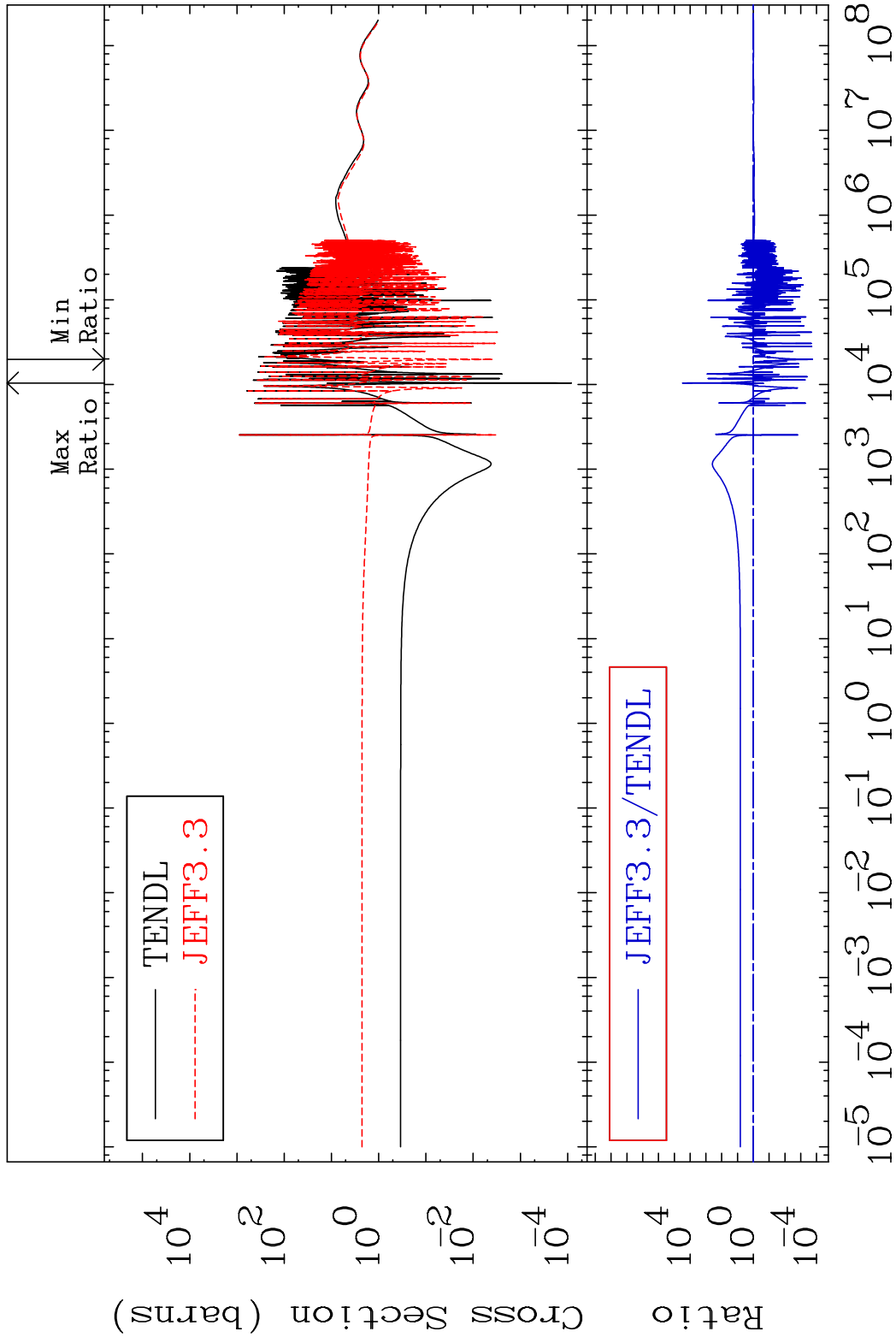
58-Ce-140

MAT 5837

Elastic

58-Ce-140

Cross Section -99.98 To 9999. %

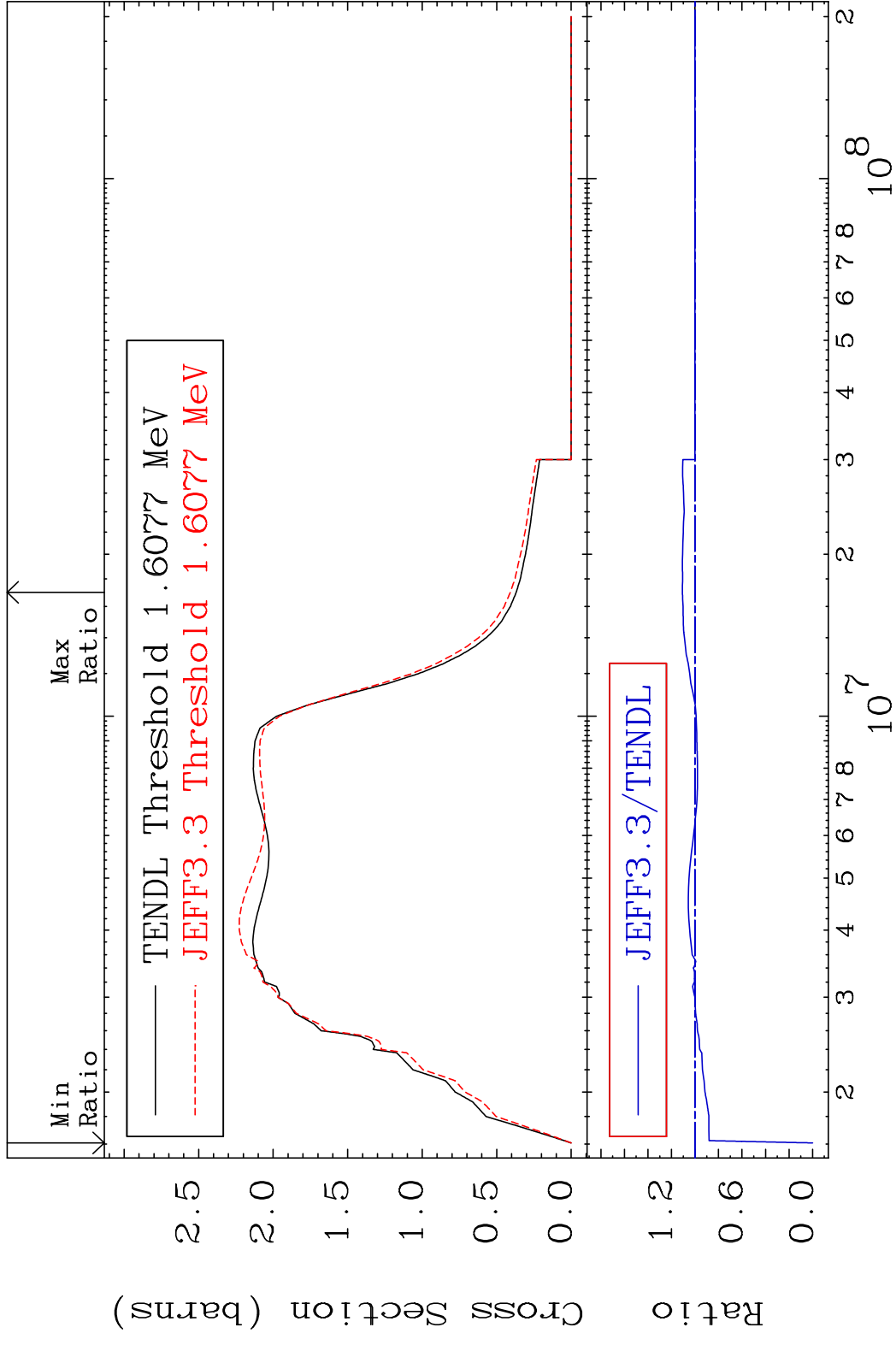


2

Incident Energy (eV)

58-Ce-140

MAT 5837 Inelastic 58-Ce-140
 Cross Section -100.0 To 10.75 %



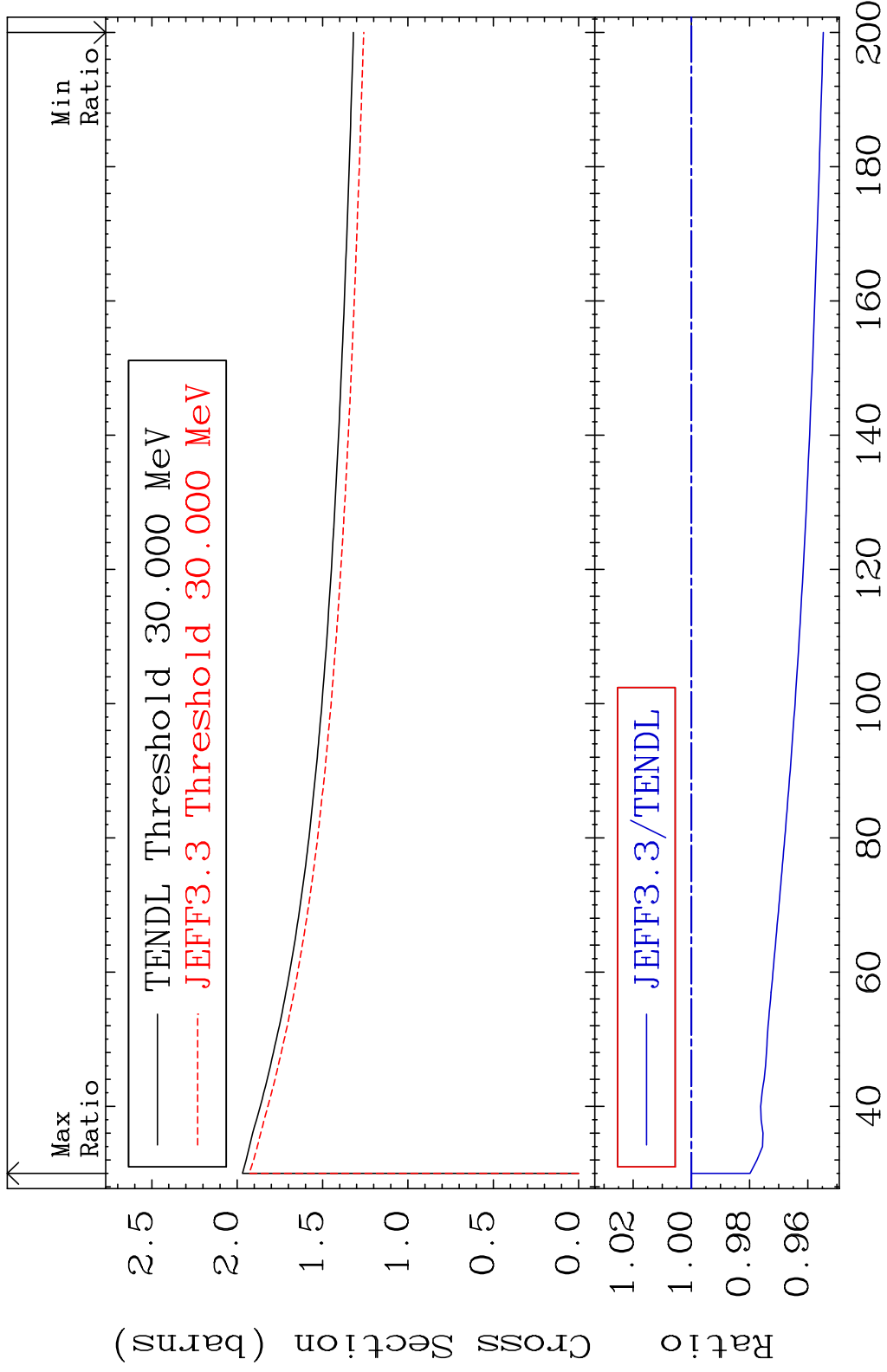
3 Incident Energy (eV) 58-Ce-140

MAT 5837

(n, remainder)

58-Ce-140

Cross Section -4.532 To 0.000 %



4

Incident Energy (MeV)

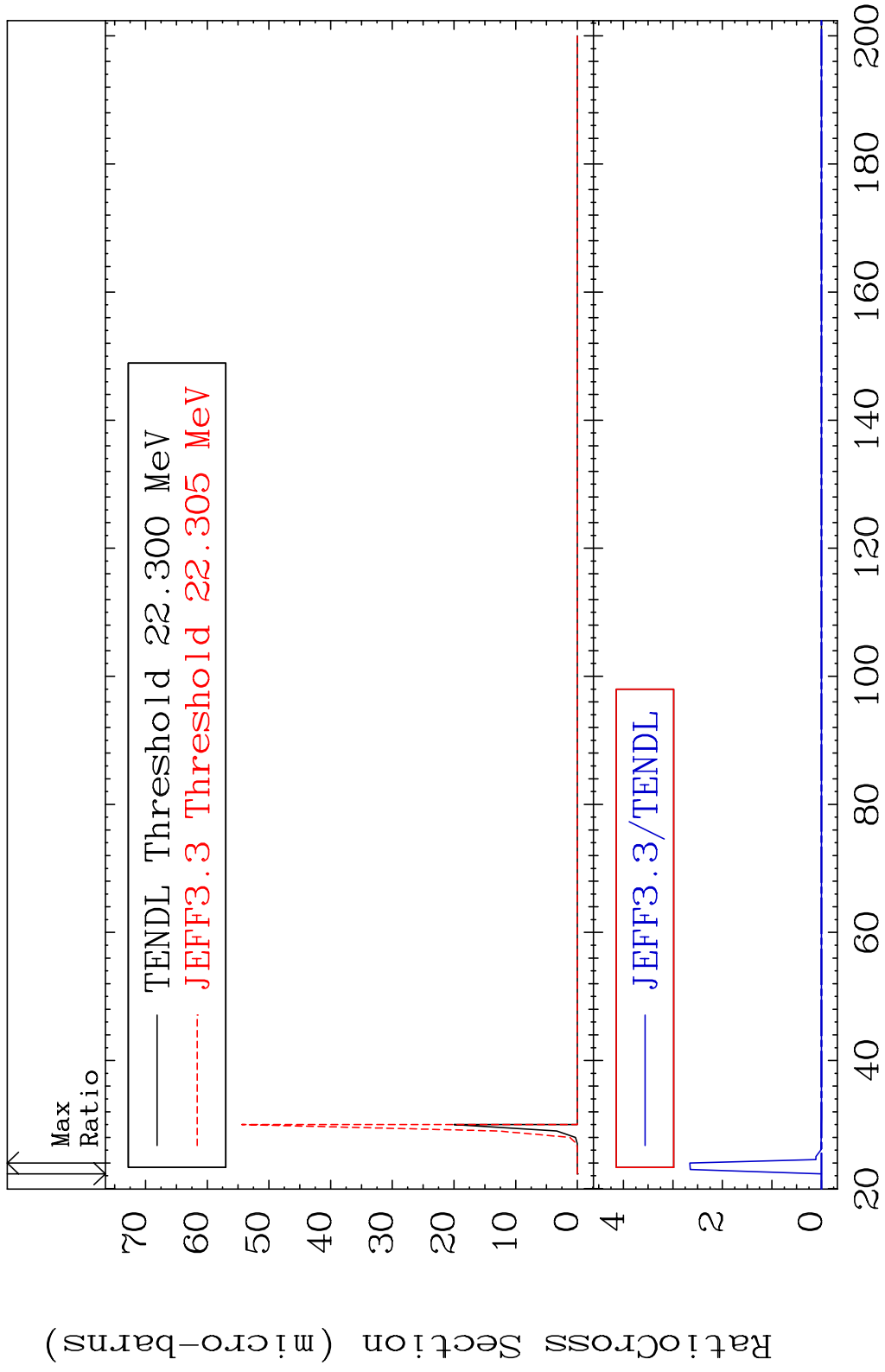
58-Ce-140

MAT 5837

(n,2n) d

58-Ce-140

Cross Section -100.0 To 9999. %



5

Incident Energy (MeV)

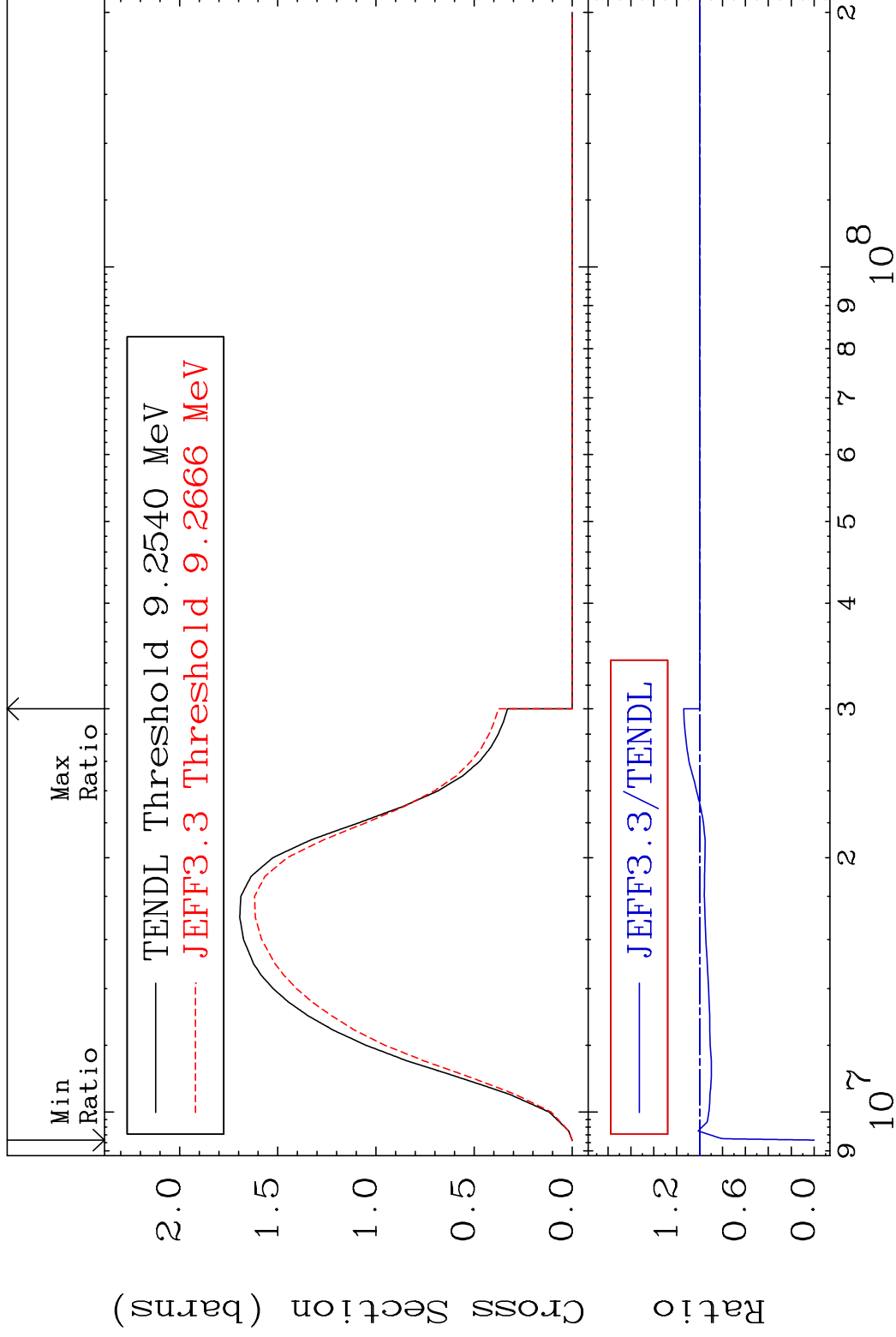
58-Ce-140

MAT 5837

(n,2n)

58-Ce-140

Cross Section -100.0 To 13.91 %



6

Incident Energy (eV)

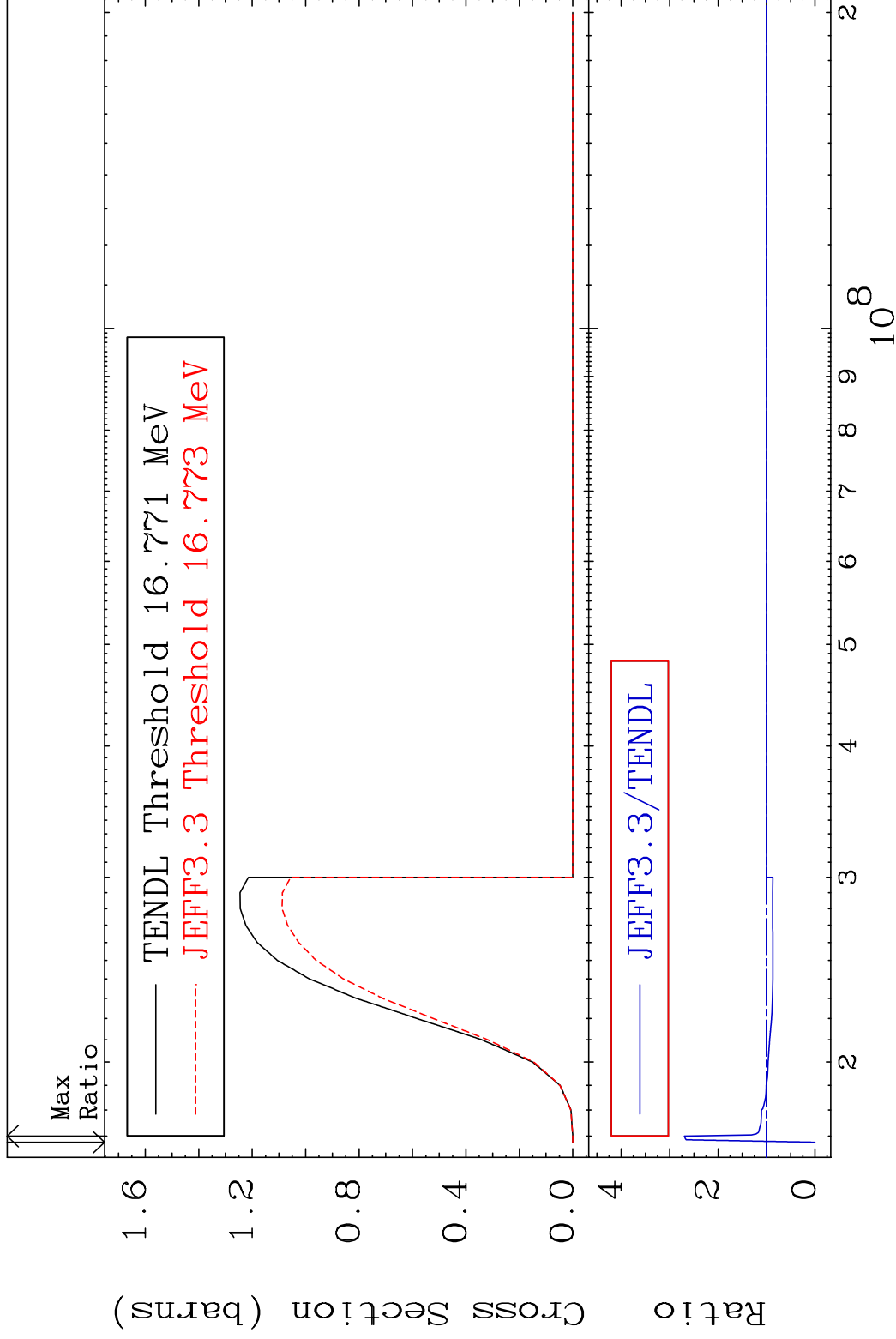
58-Ce-140

MAT 5837

(n,3n)

58-Ce-140

Cross Section -100.0 To 169.8 %

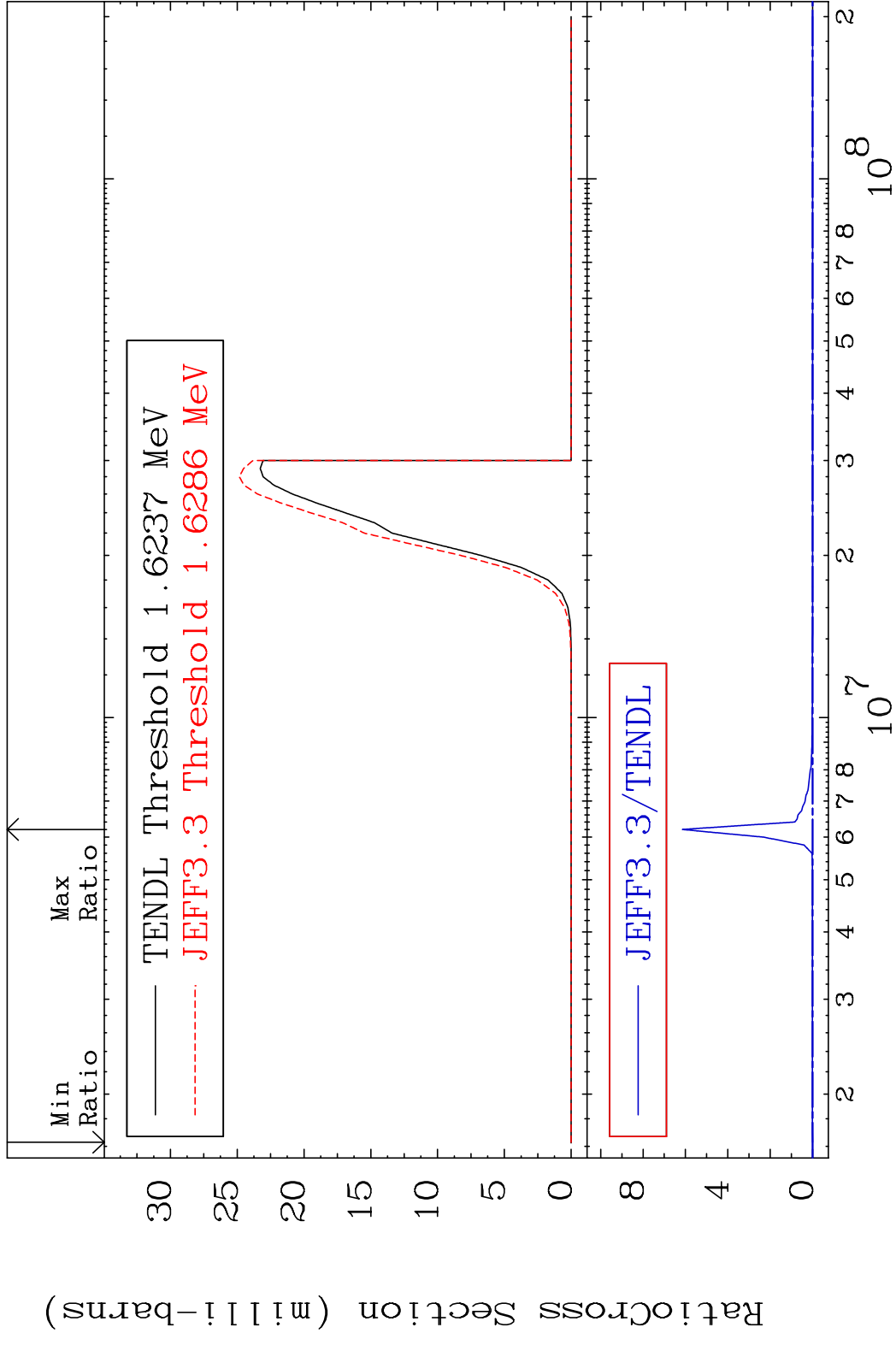


7

Incident Energy (eV)

58-Ce-140

MAT 5837 (n, n') α 58-Ce-140
 Cross Section -100.0 To 9999. %

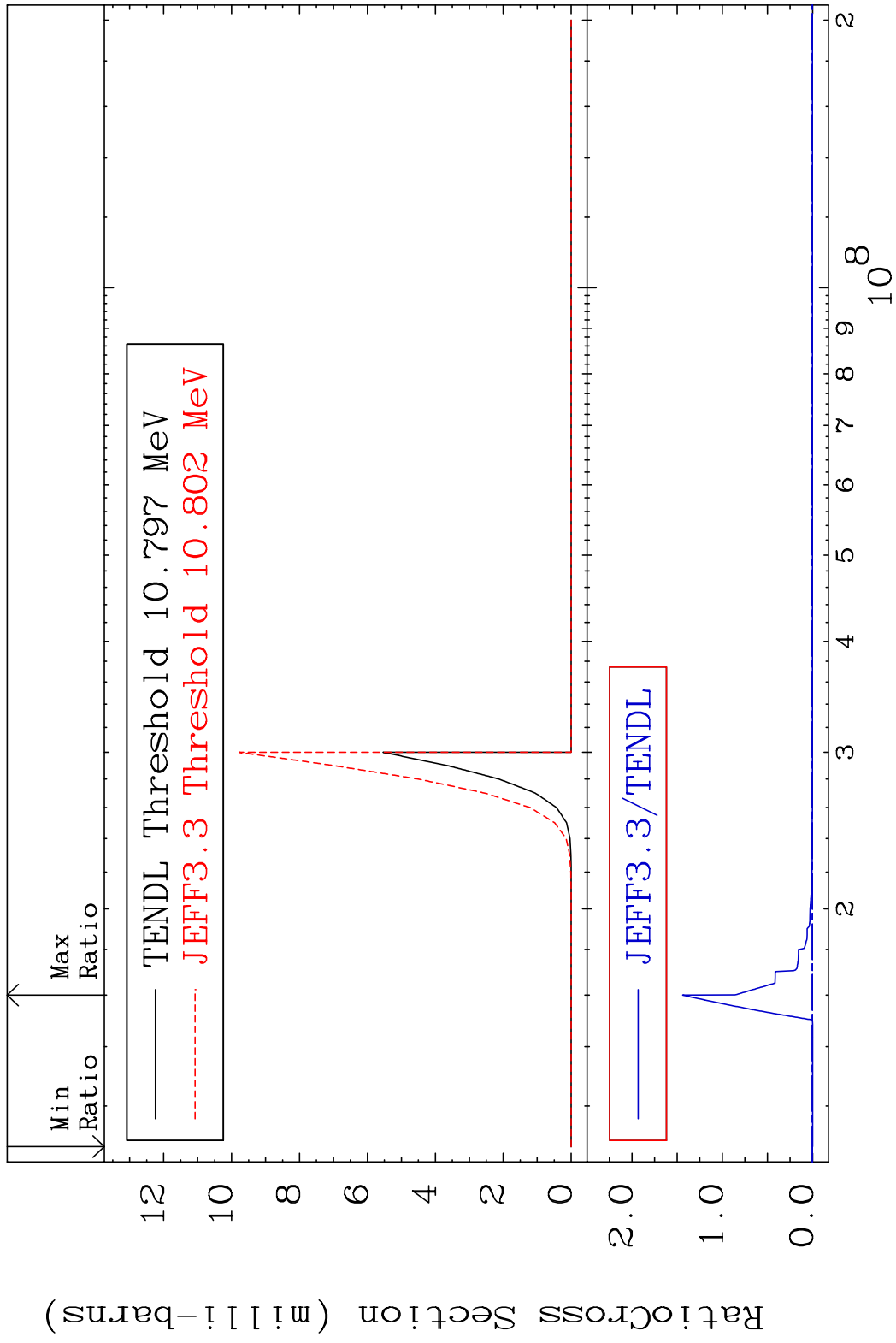


MAT 5837

(n,2n) α

58-Ce-140

Cross Section -100.0 To 9999. %

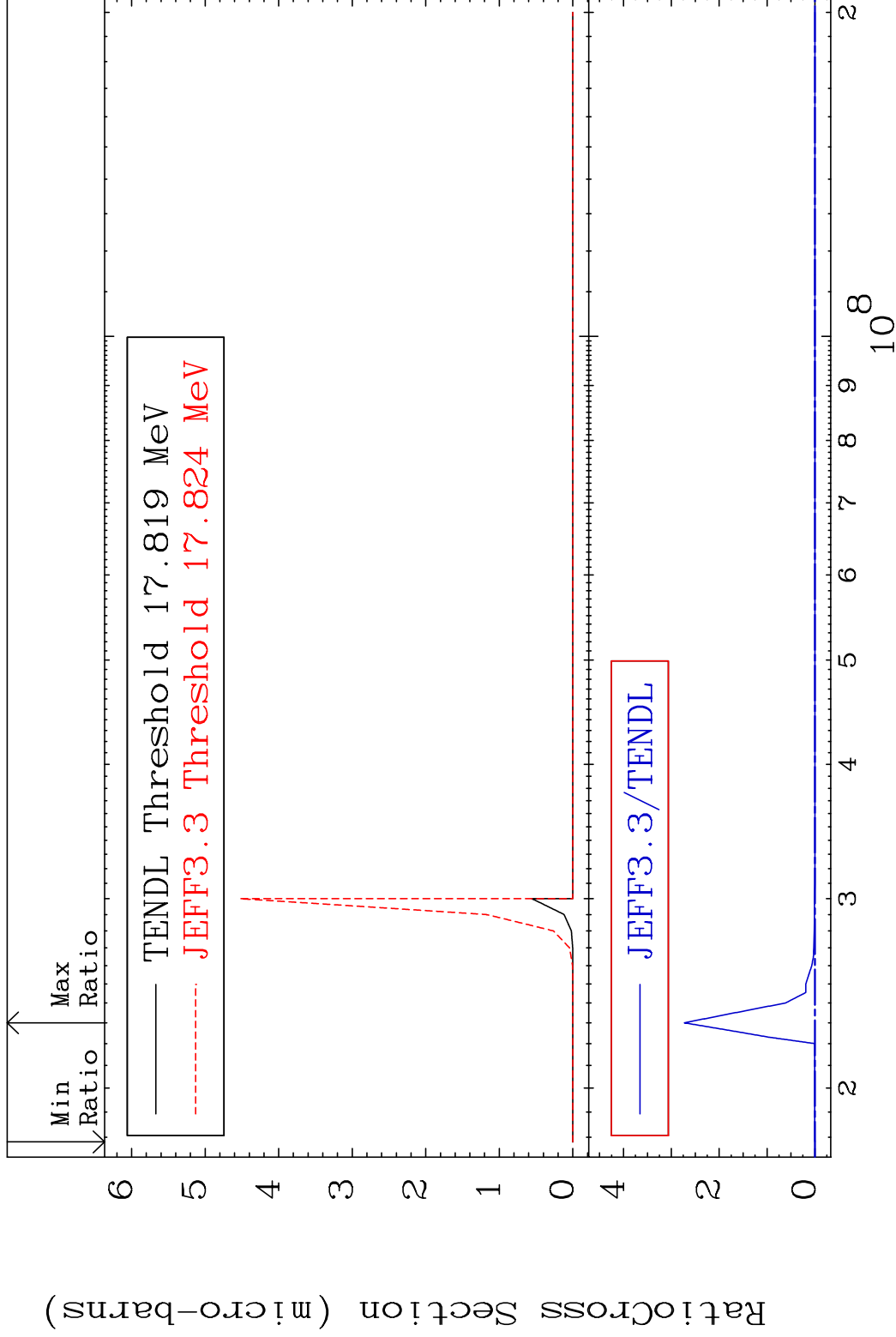


MAT 5837

(n,3n) α

58-Ce-140

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

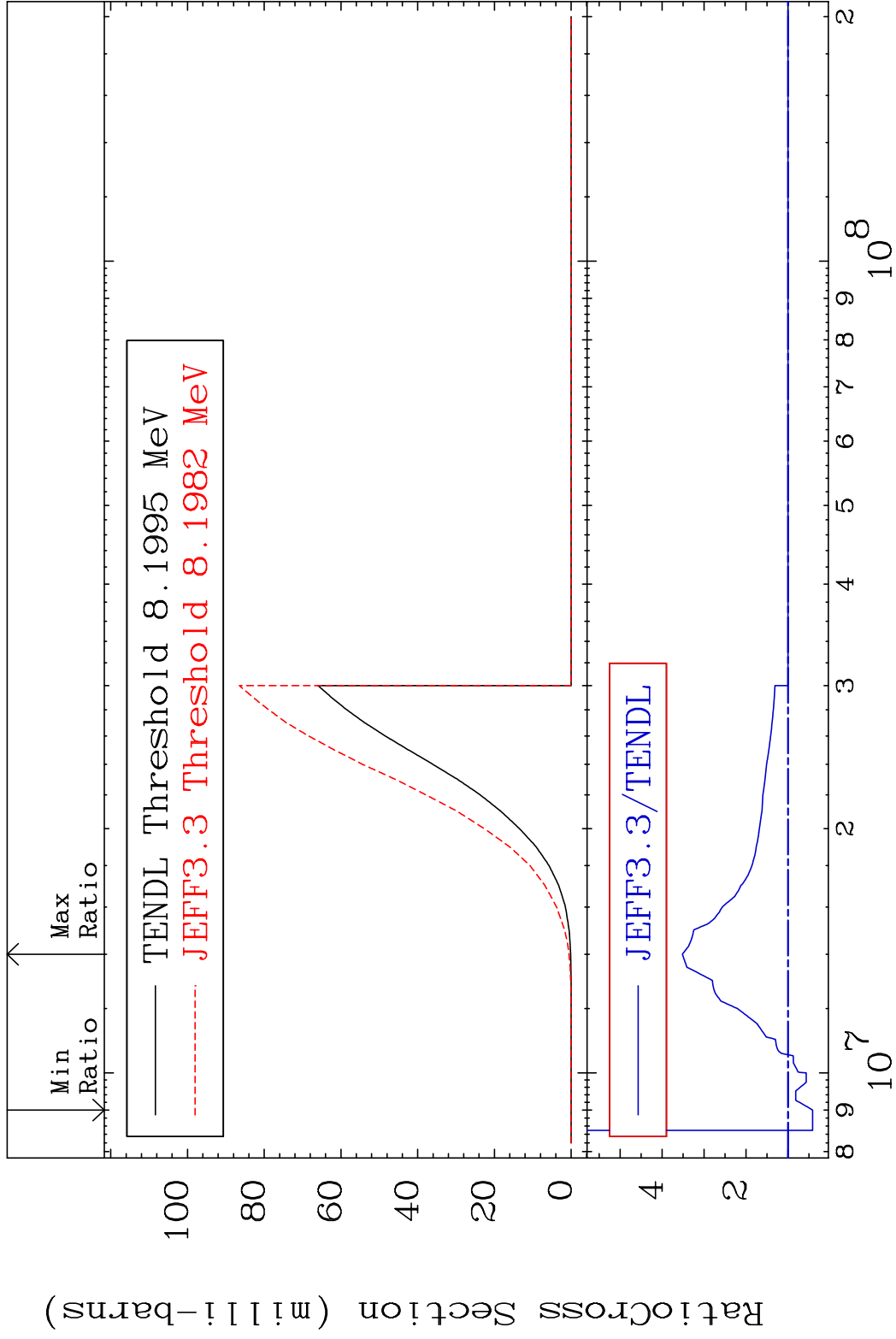
58-Ce-140

MAT 5837

(n, n') p

58-Ce-140

Cross Section -58.58 To 251.6 %

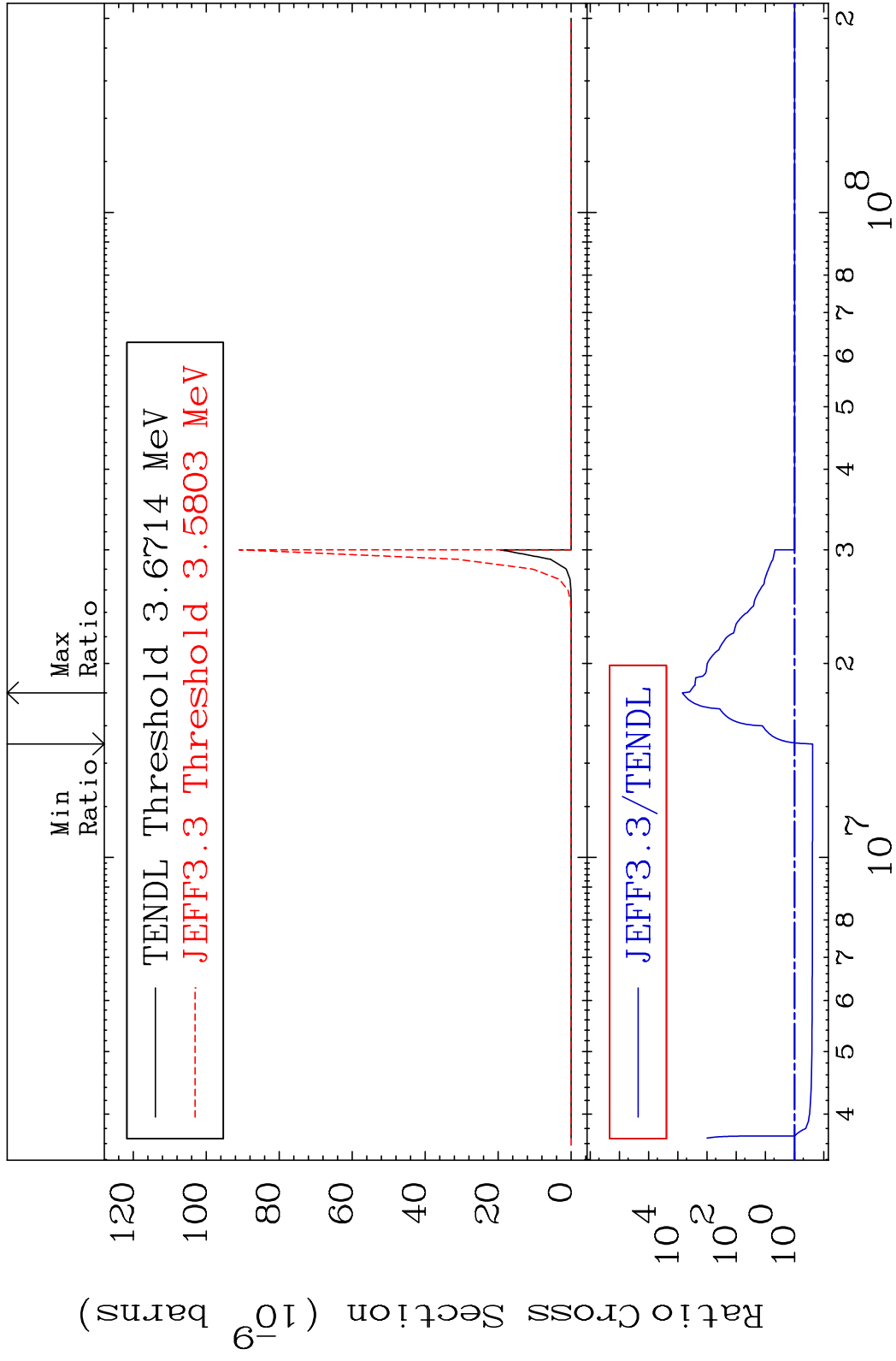


MAT 5837

(n, n') 2α

58-Ce-140

Cross Section -75.78 To 9999. %



12

Incident Energy (eV)

58-Ce-140

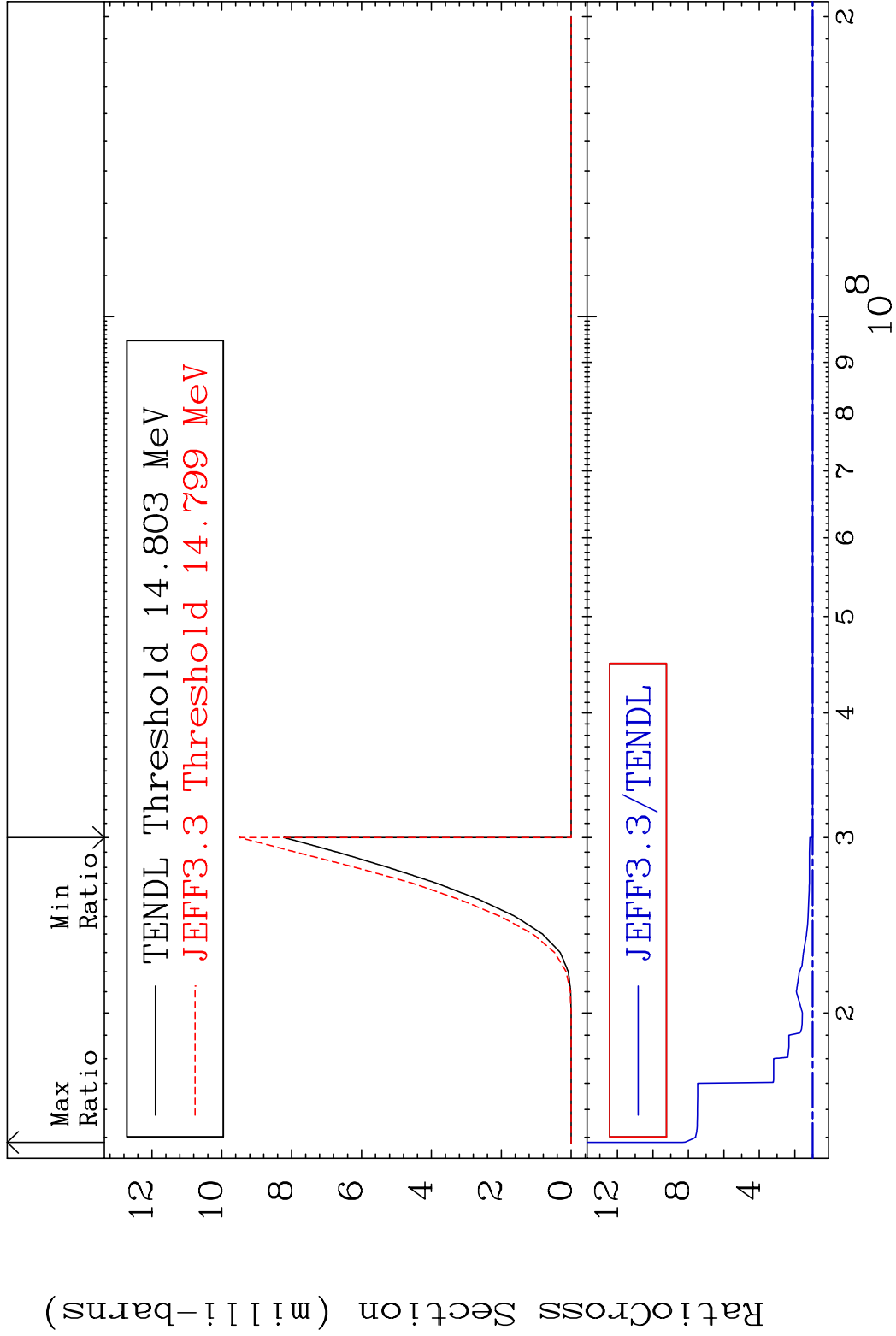
MAT 5837

(n, n') d

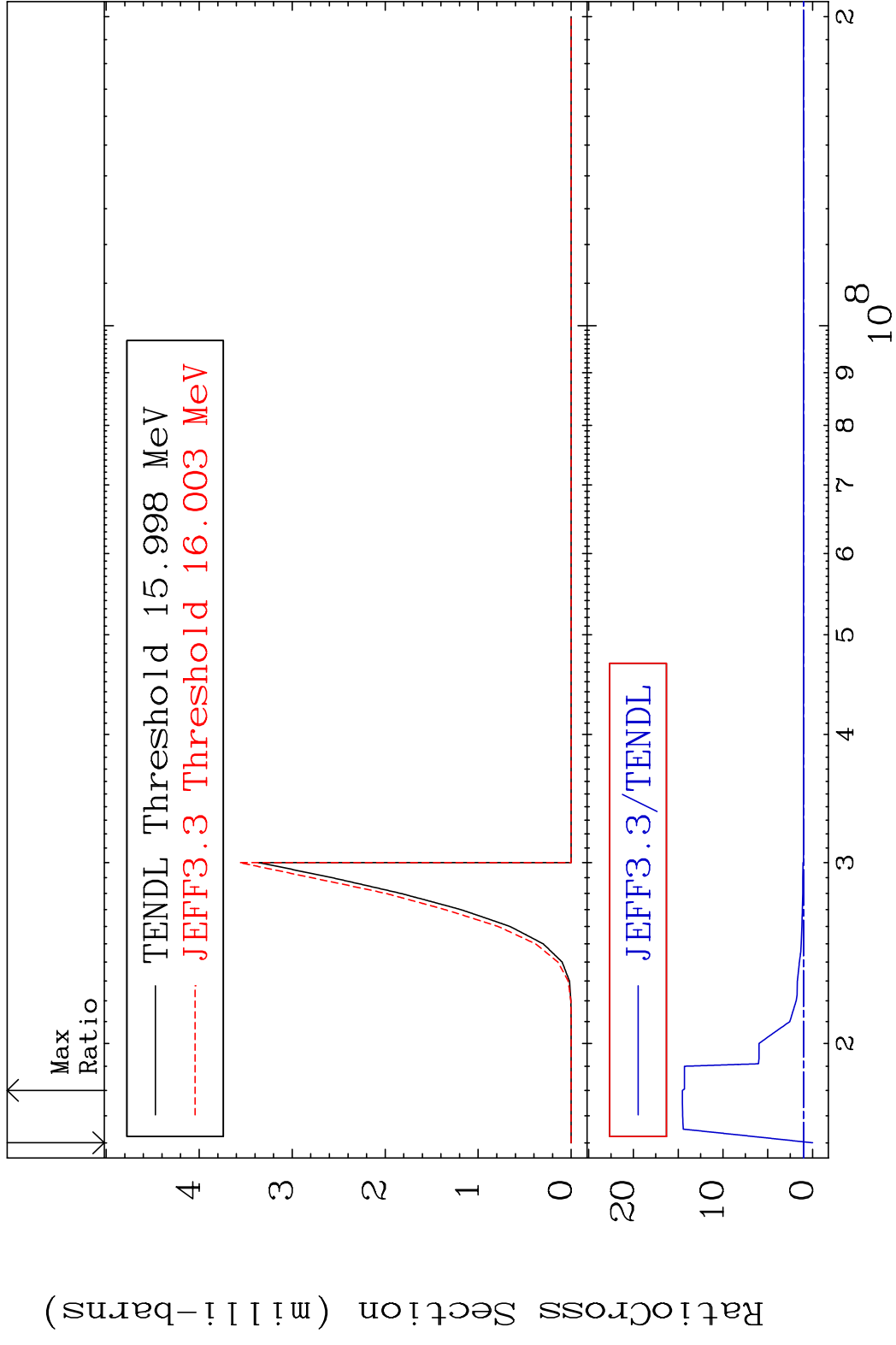
58-Ce-140

Cross Section 0.000

To 734.2 %



MAT 5837 (n, n') t 58-Ce-140
 Cross Section -100.0 To 1353. %

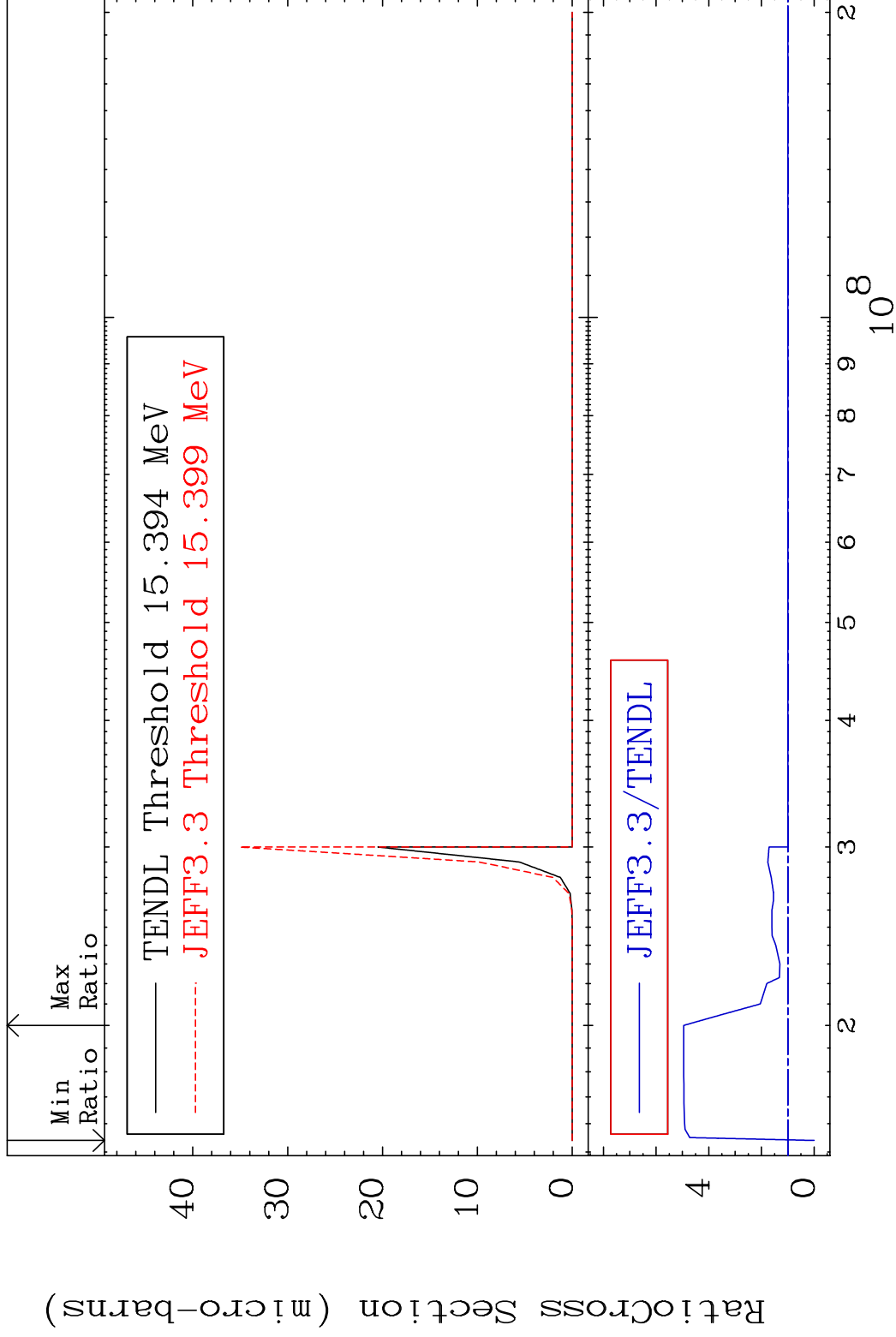


MAT 5837

(n,n') He-3

58-Ce-140

Cross Section -100.0 To 395.3 %



15

Incident Energy (eV)

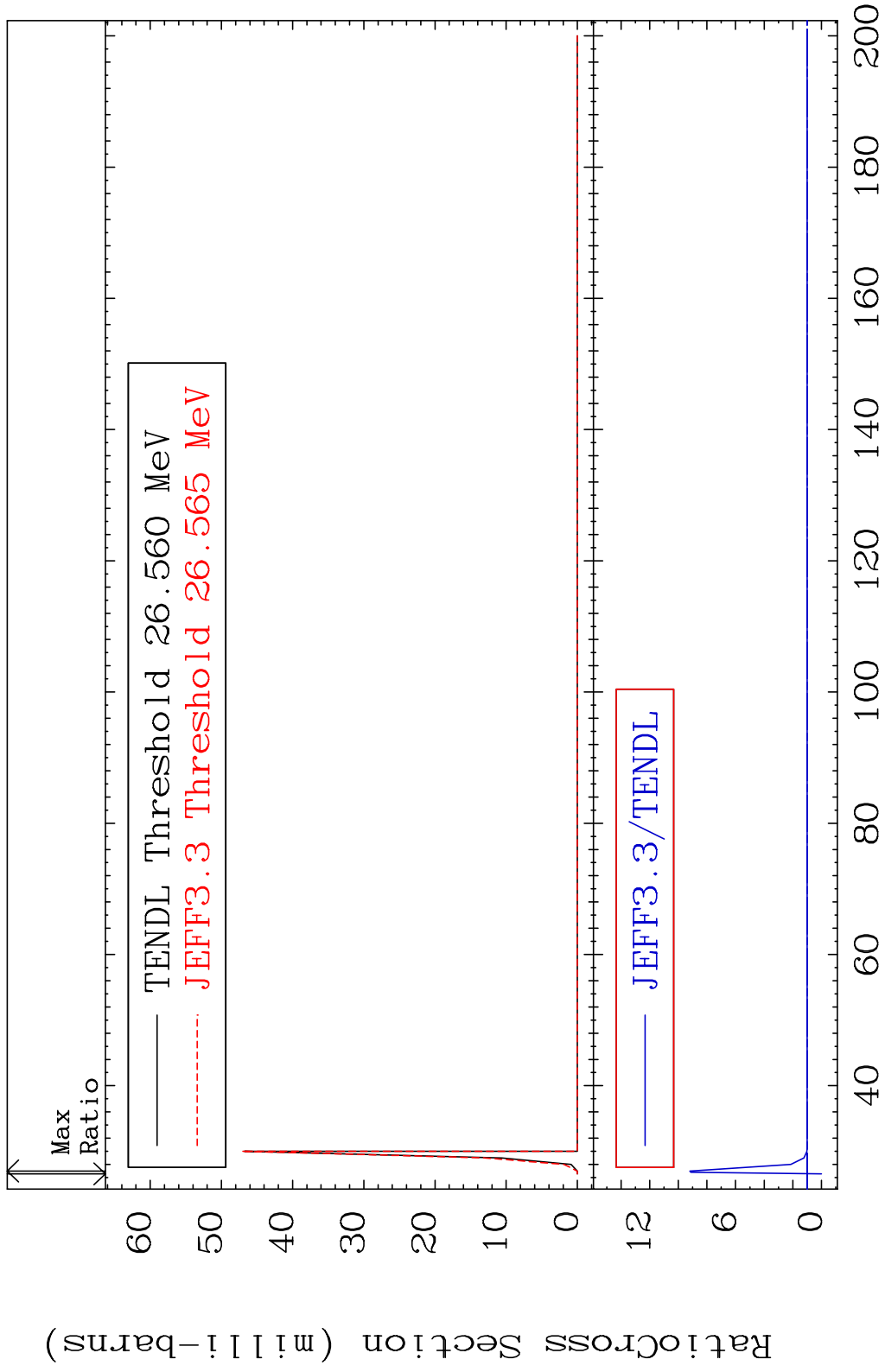
58-Ce-140

MAT 5837

(n,4n)

58-Ce-140

Cross Section -100.0 To 820.1 %



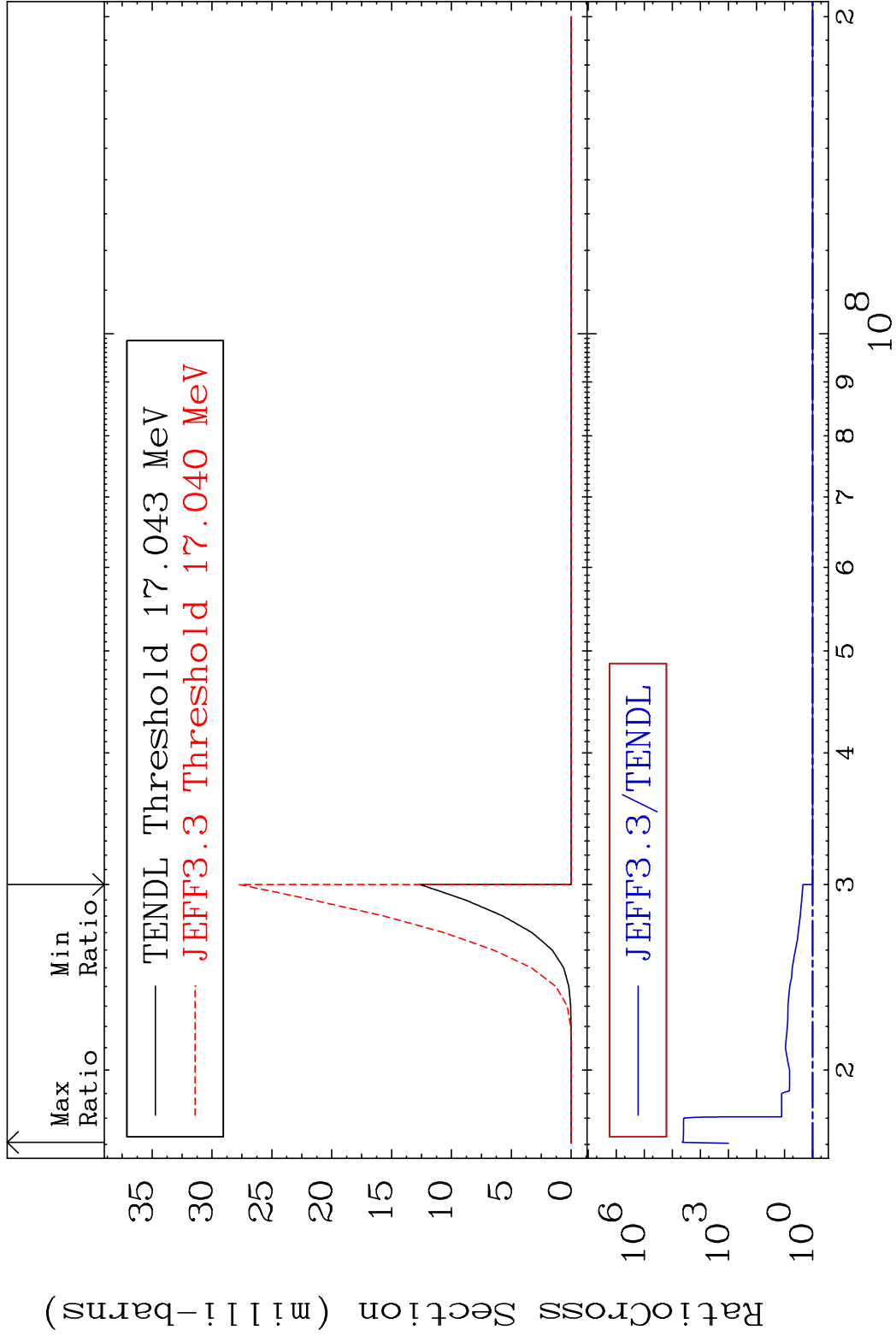
MAT 5837

(n,2n) p

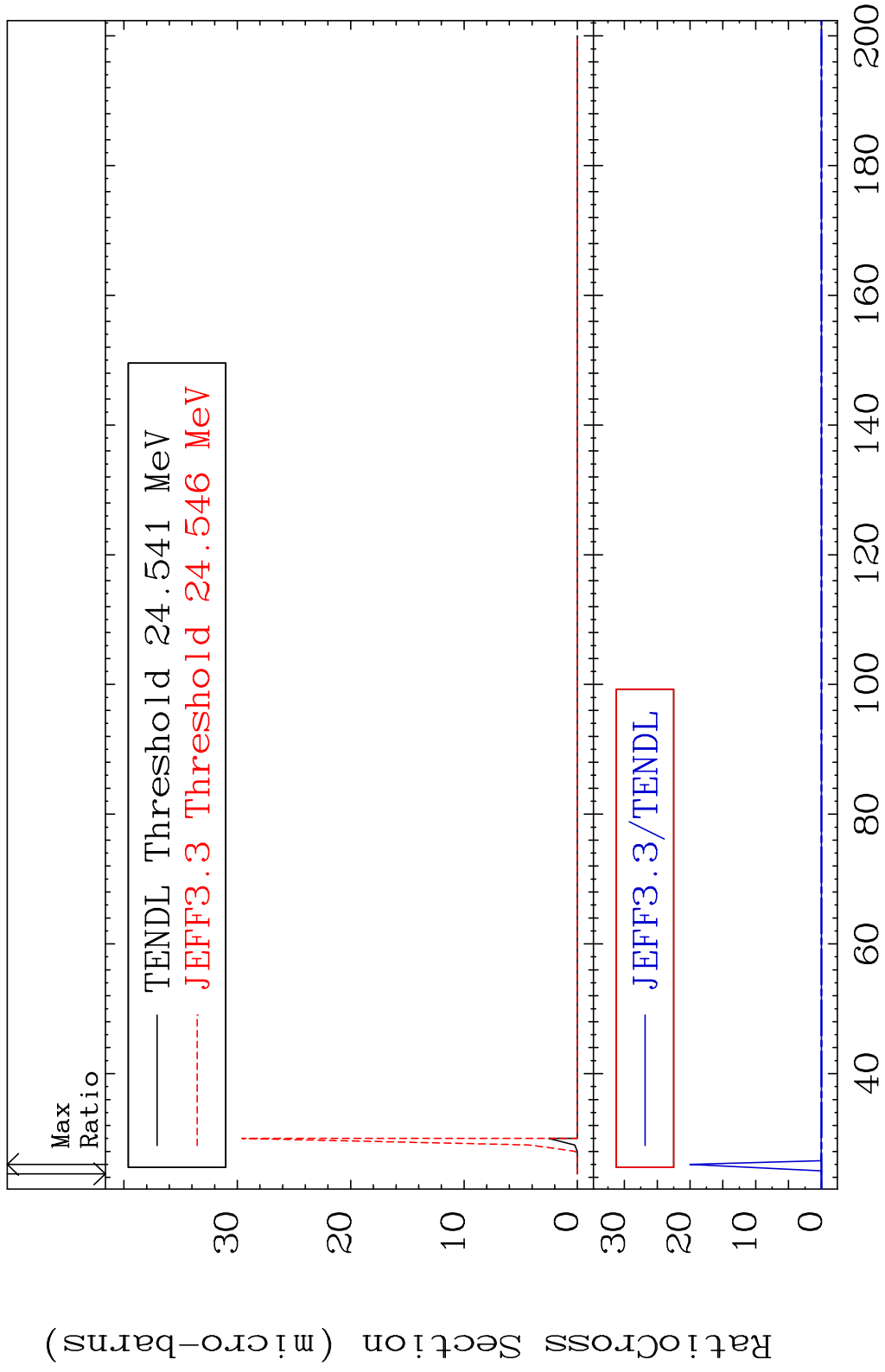
58-Ce-140

Cross Section 0.000

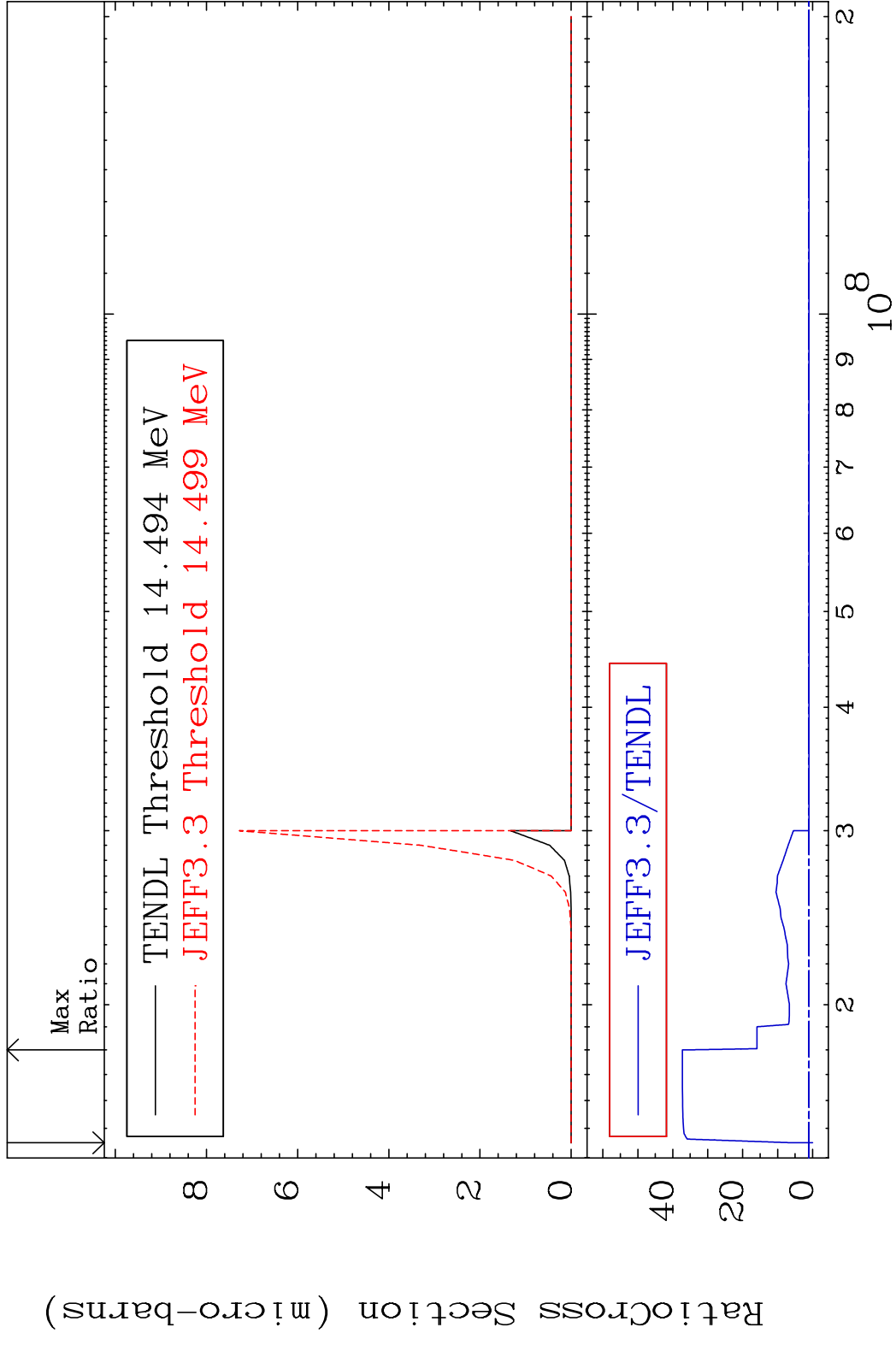
To 9999. %



MAT 5837 (n,3n) p 58-Ce-140
Cross Section -100.0 To 9999. %

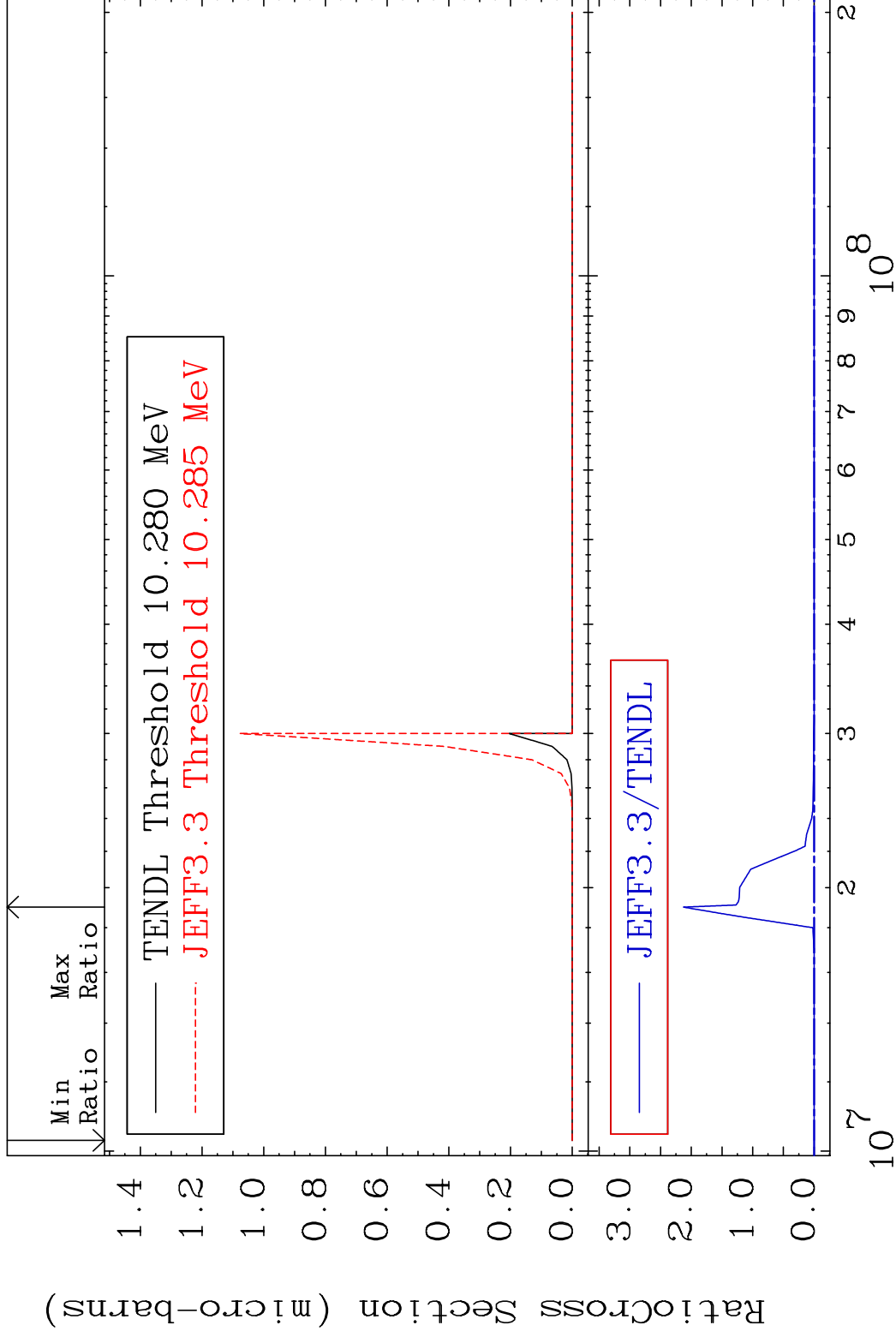


MAT 5837 (n,2n) p 58-Ce-140
 Cross Section -100.0 To 3626. %



MAT 5837

(n,n') p α 58-Ce-140
Cross Section -100.0 To 9999. %

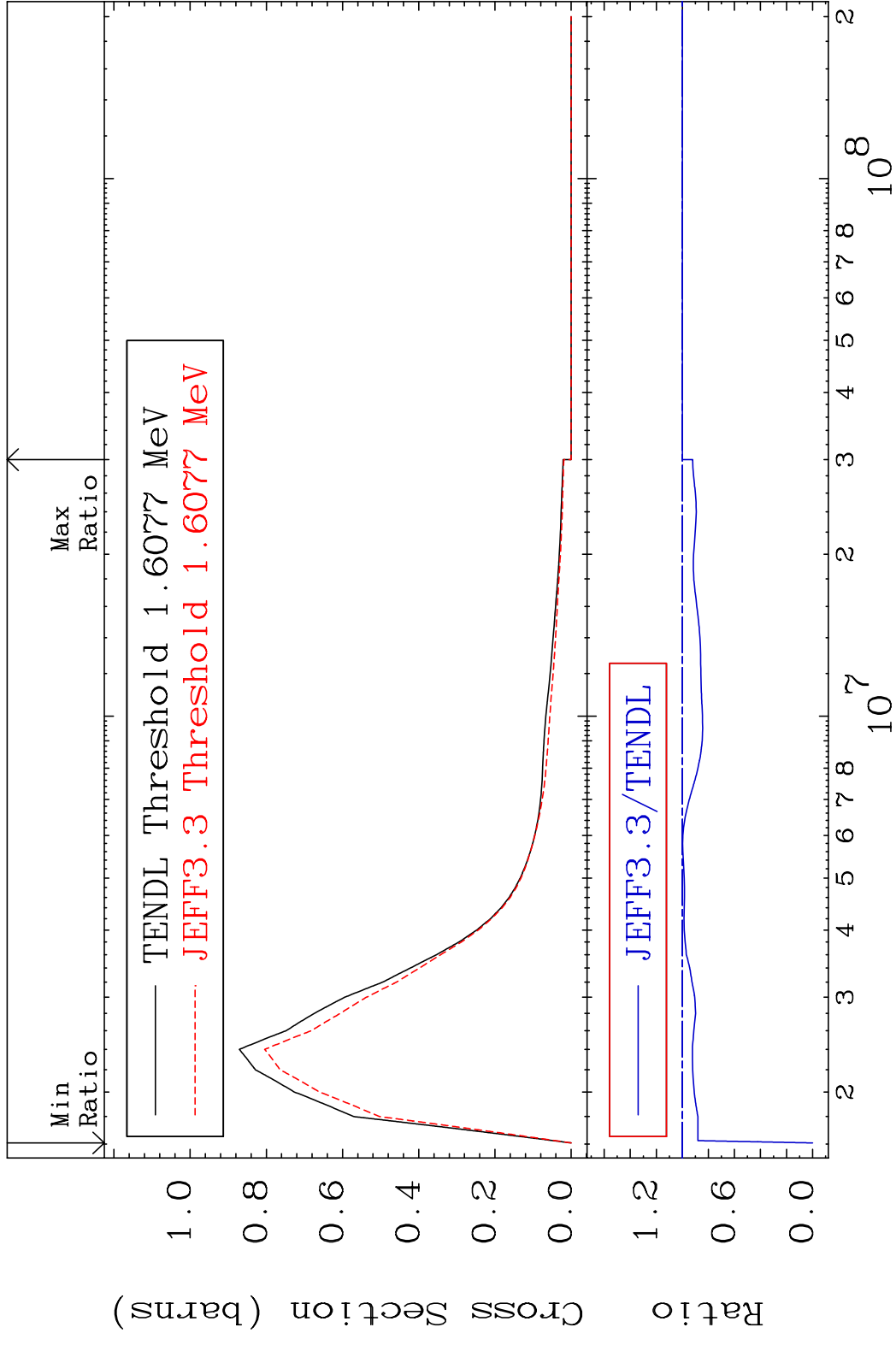


20

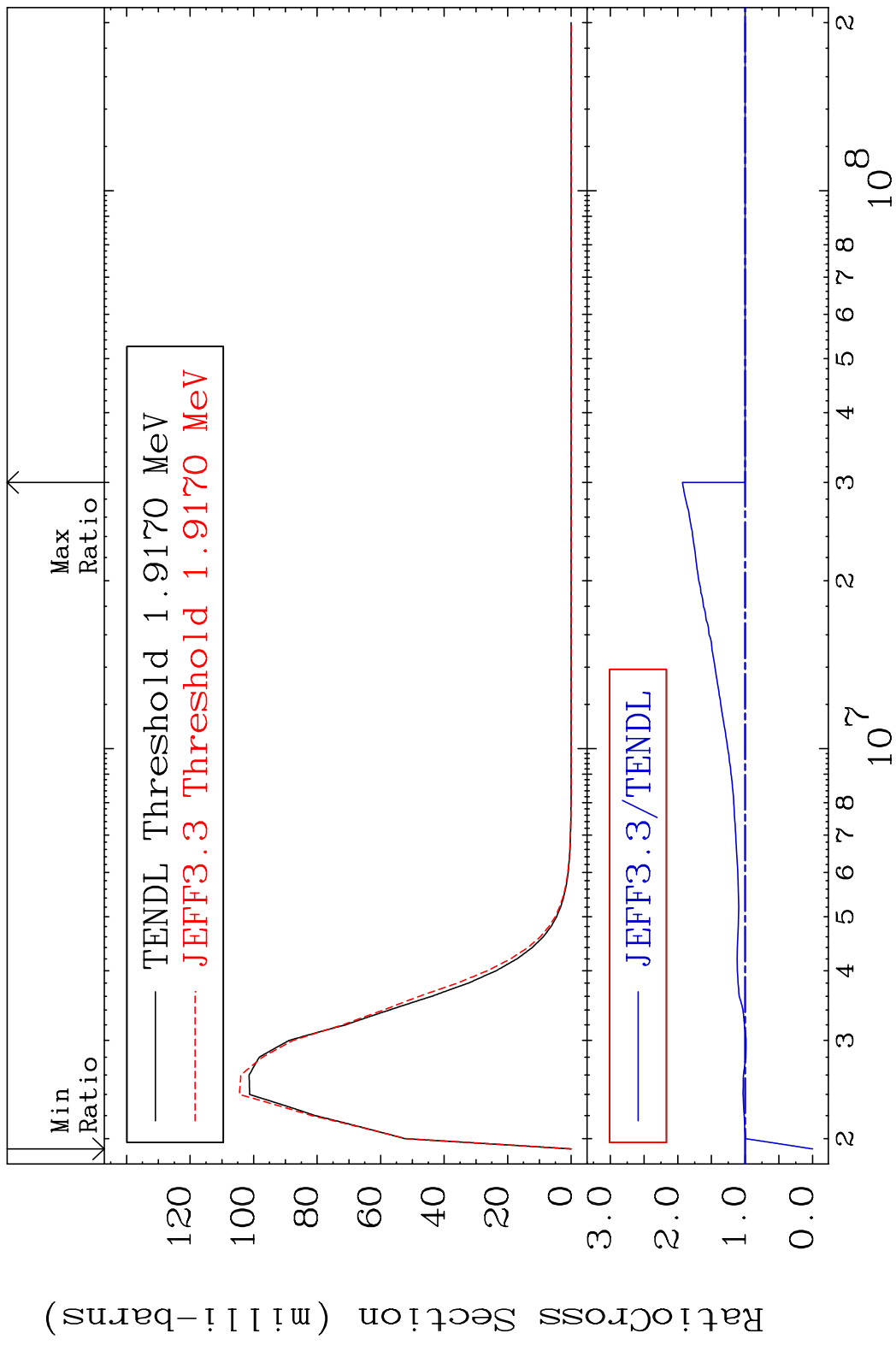
Incident Energy (eV)

58-Ce-140

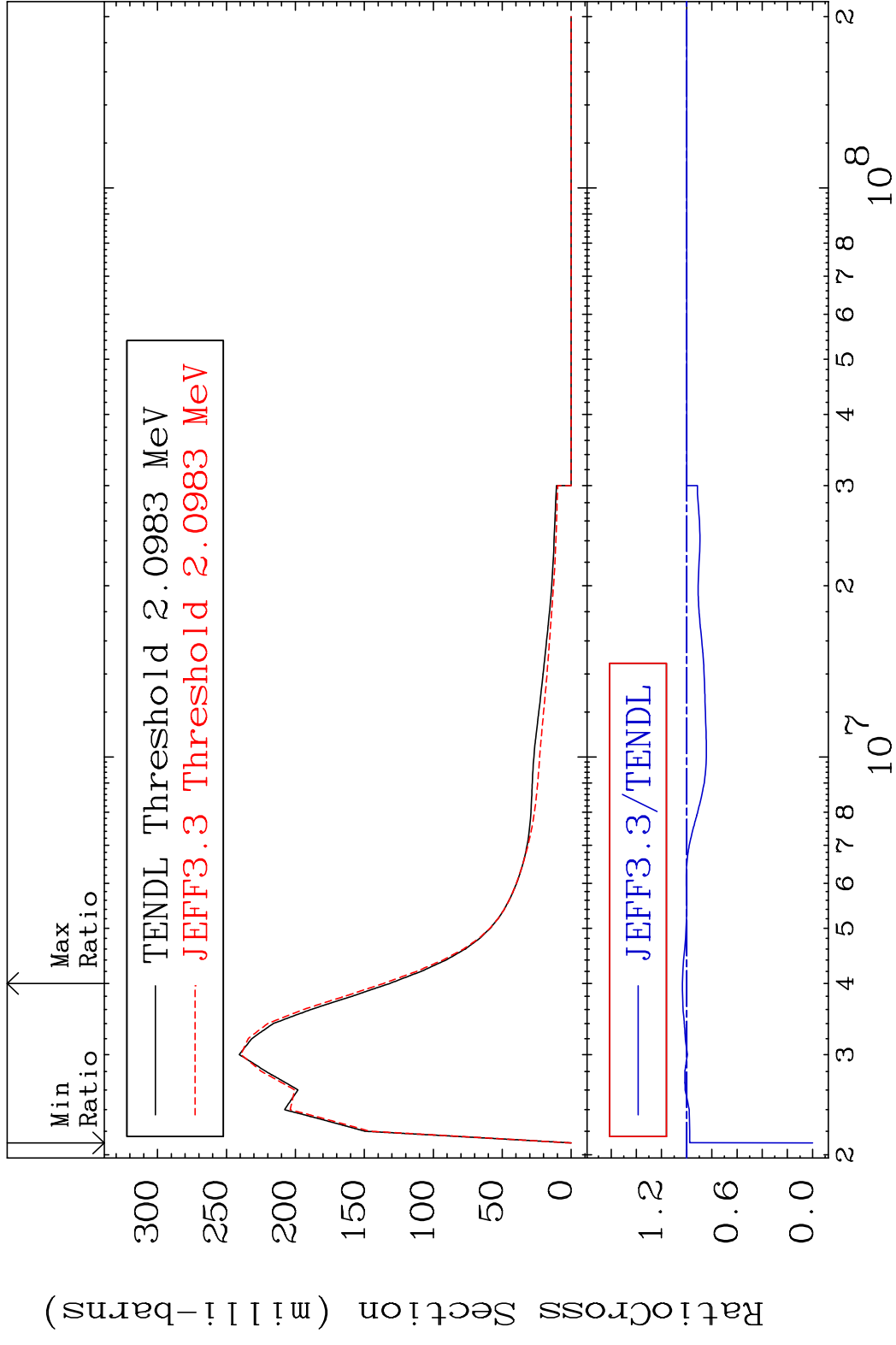
MAT 5837 MT= 51 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 0.000 %



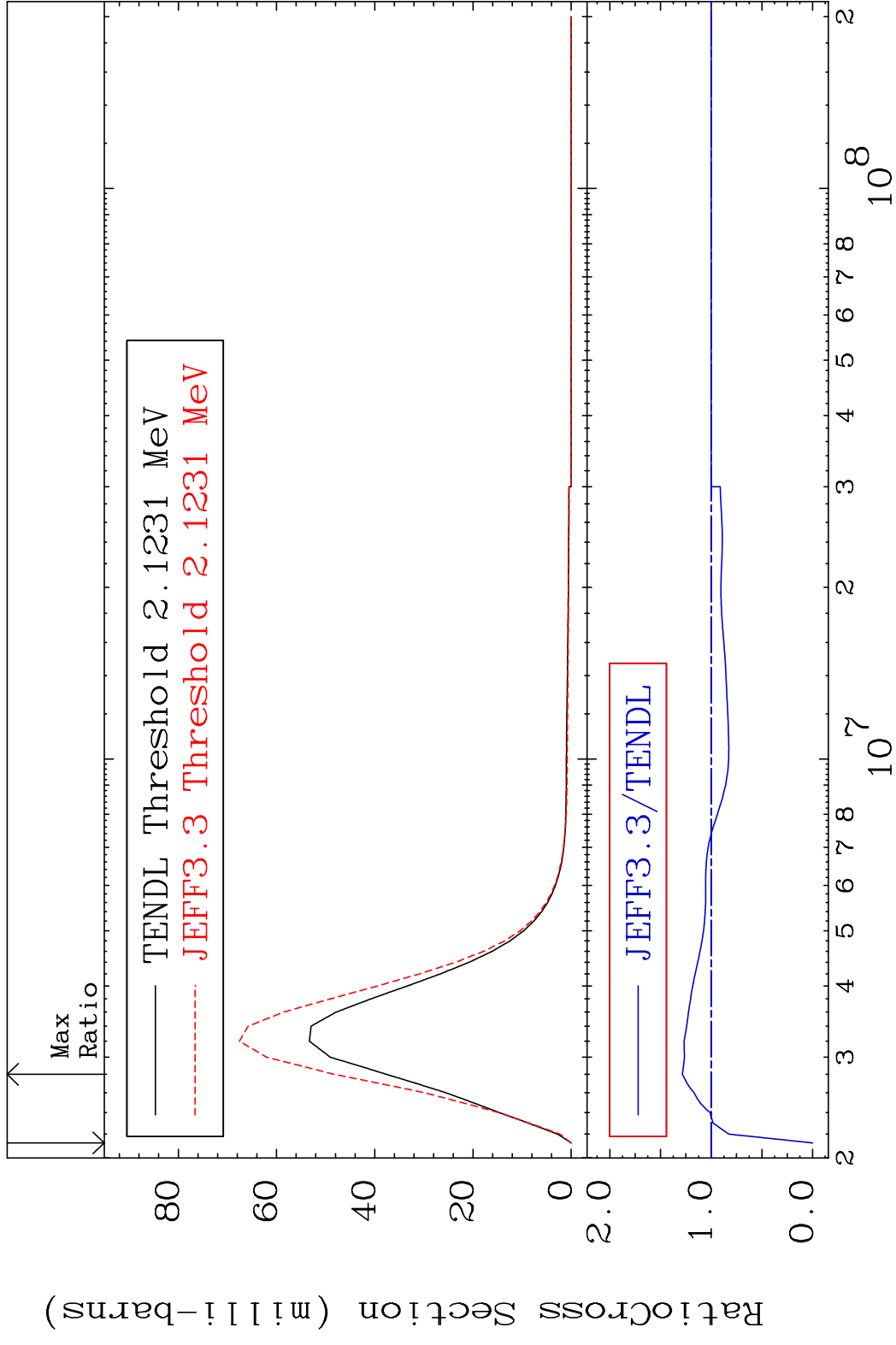
MAT 5837 MT= 52 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 93.17 %



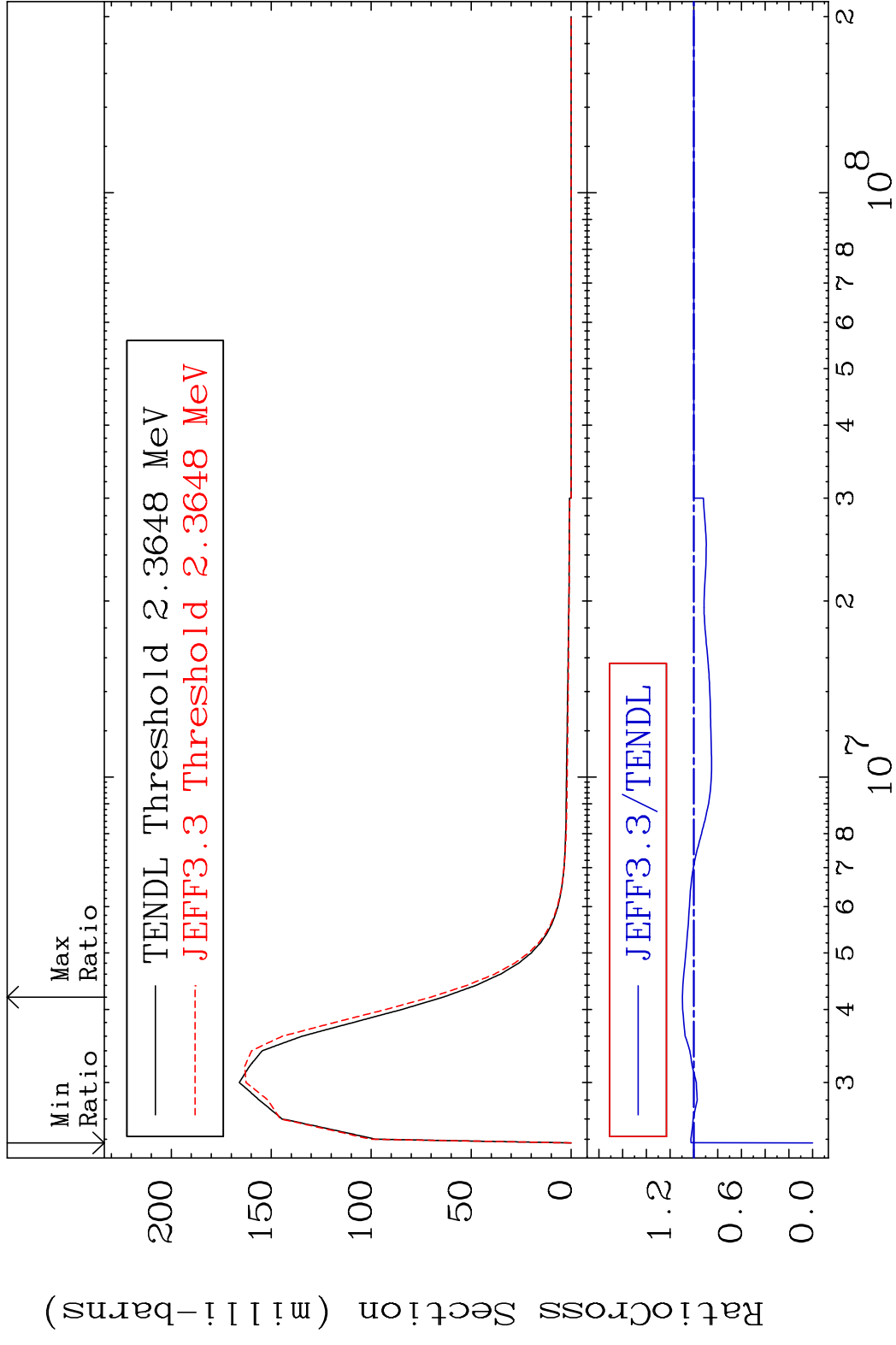
MAT 5837 MT= 53 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 3.436 %



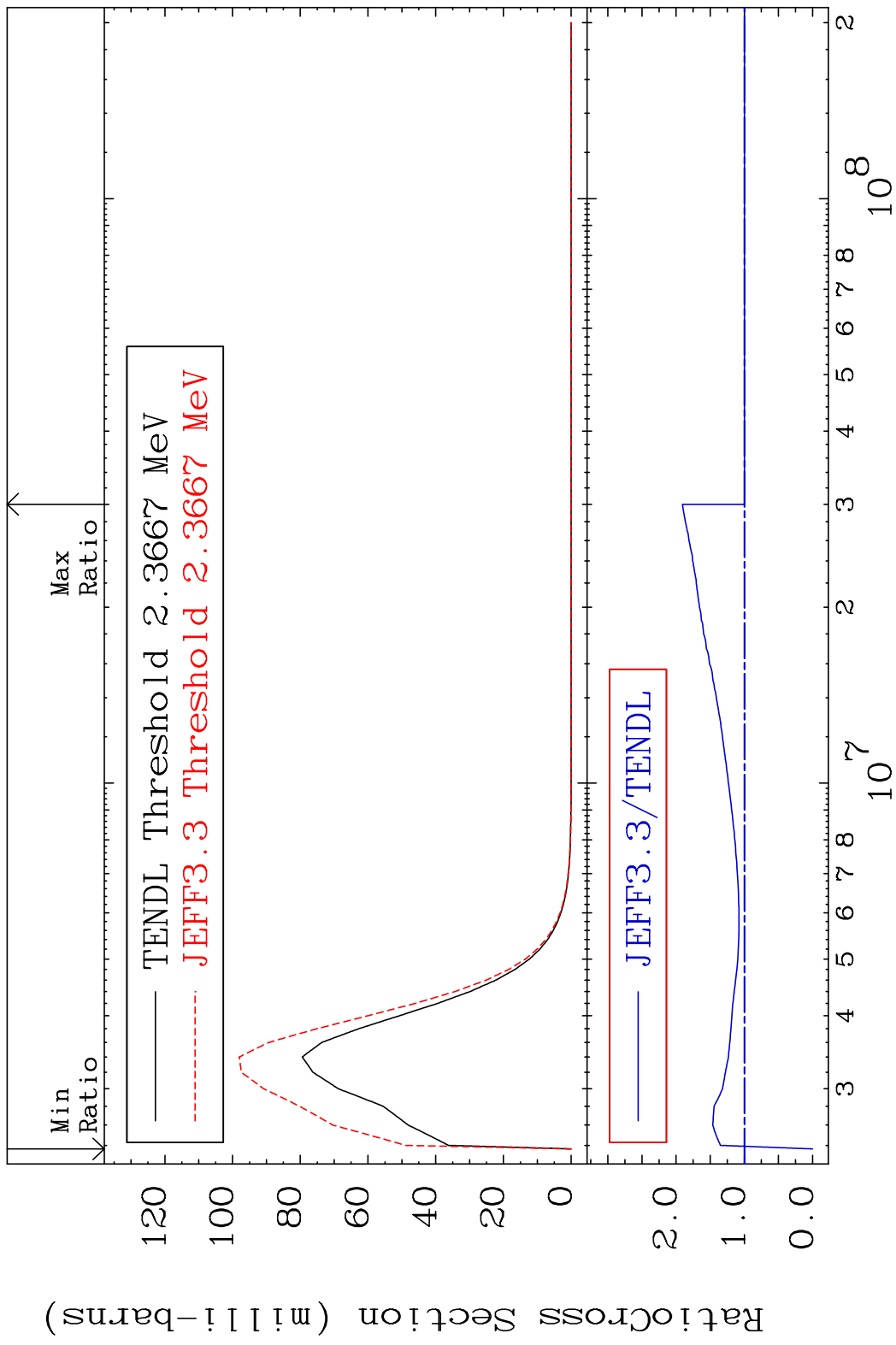
MAT 5837 MT= 54 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 28.43 %



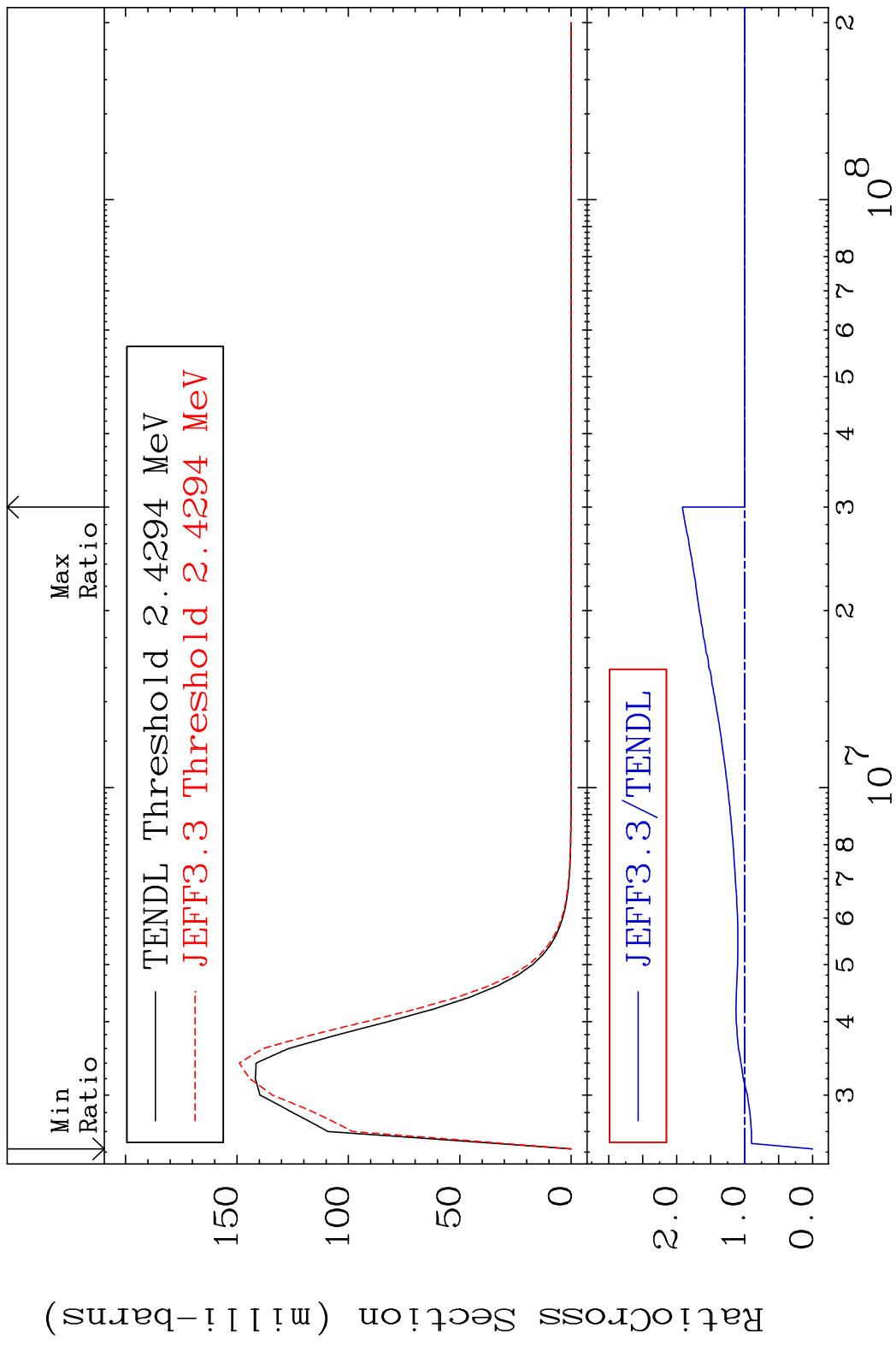
MAT 5837 MT= 55 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 9.722 %



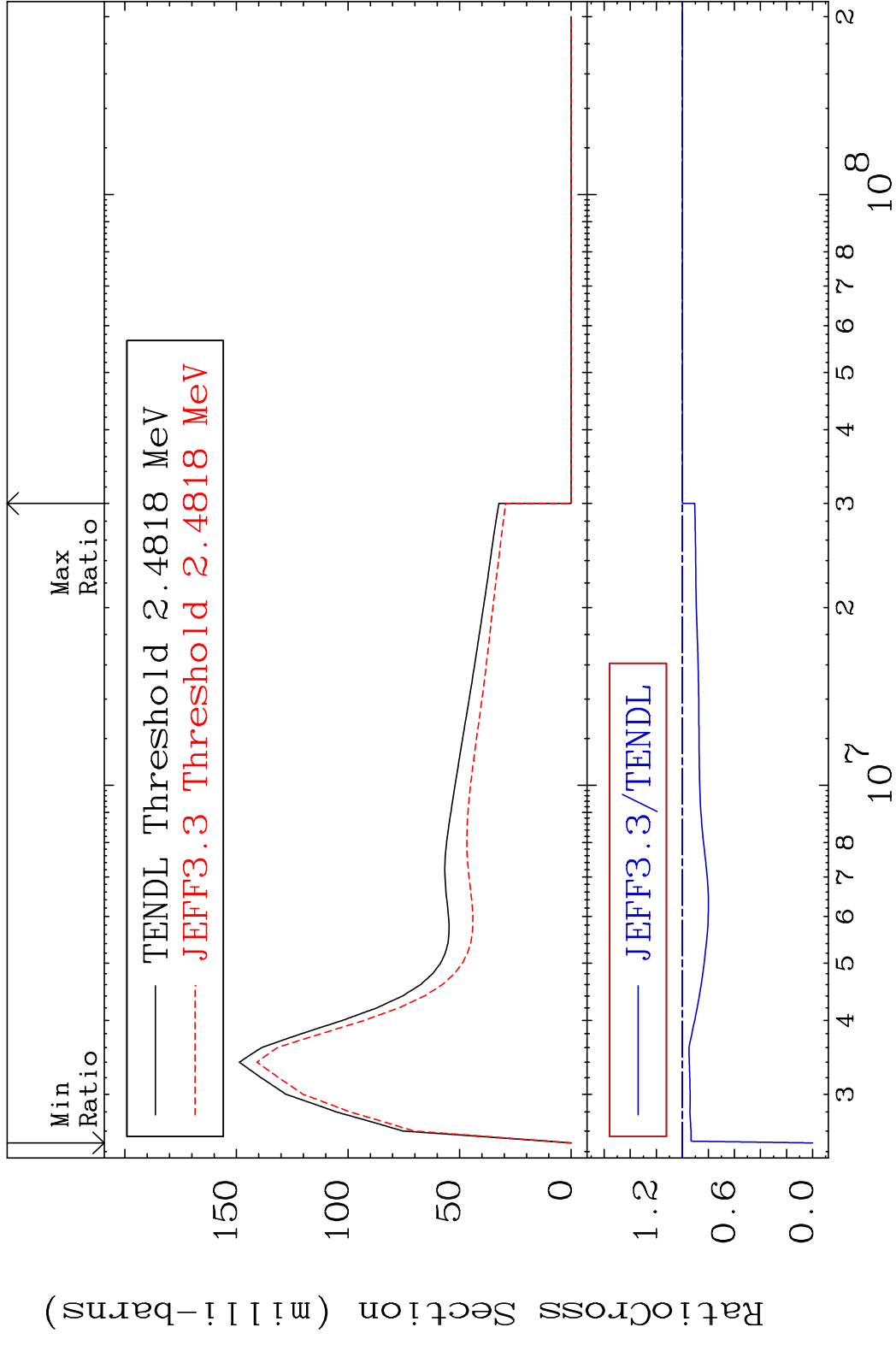
MAT 5837 MT= 56 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 90.83 %



MAT 5837 MT= 57 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 91.55 %

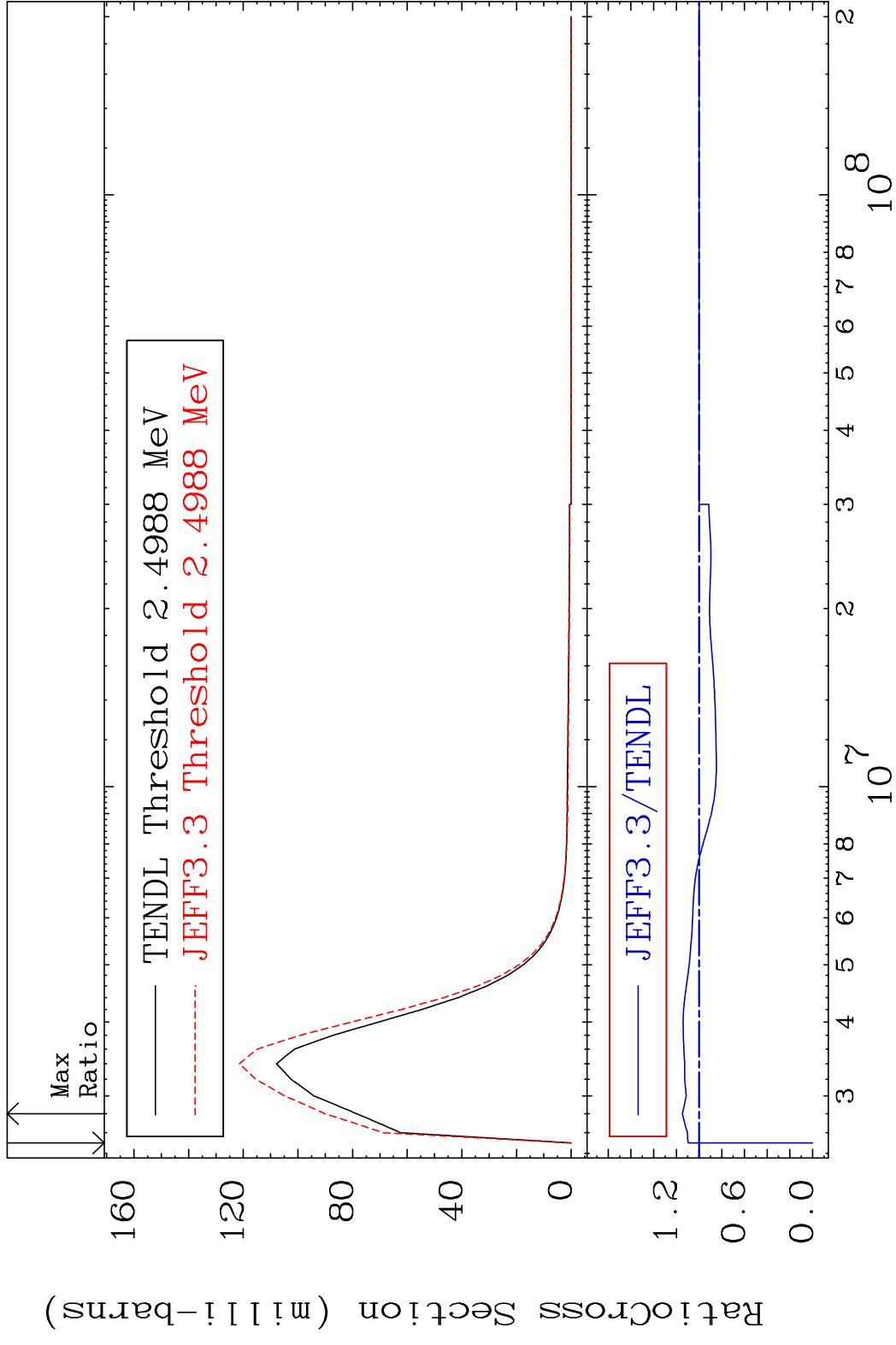


MAT 5837 MT= 58 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 0.000 %

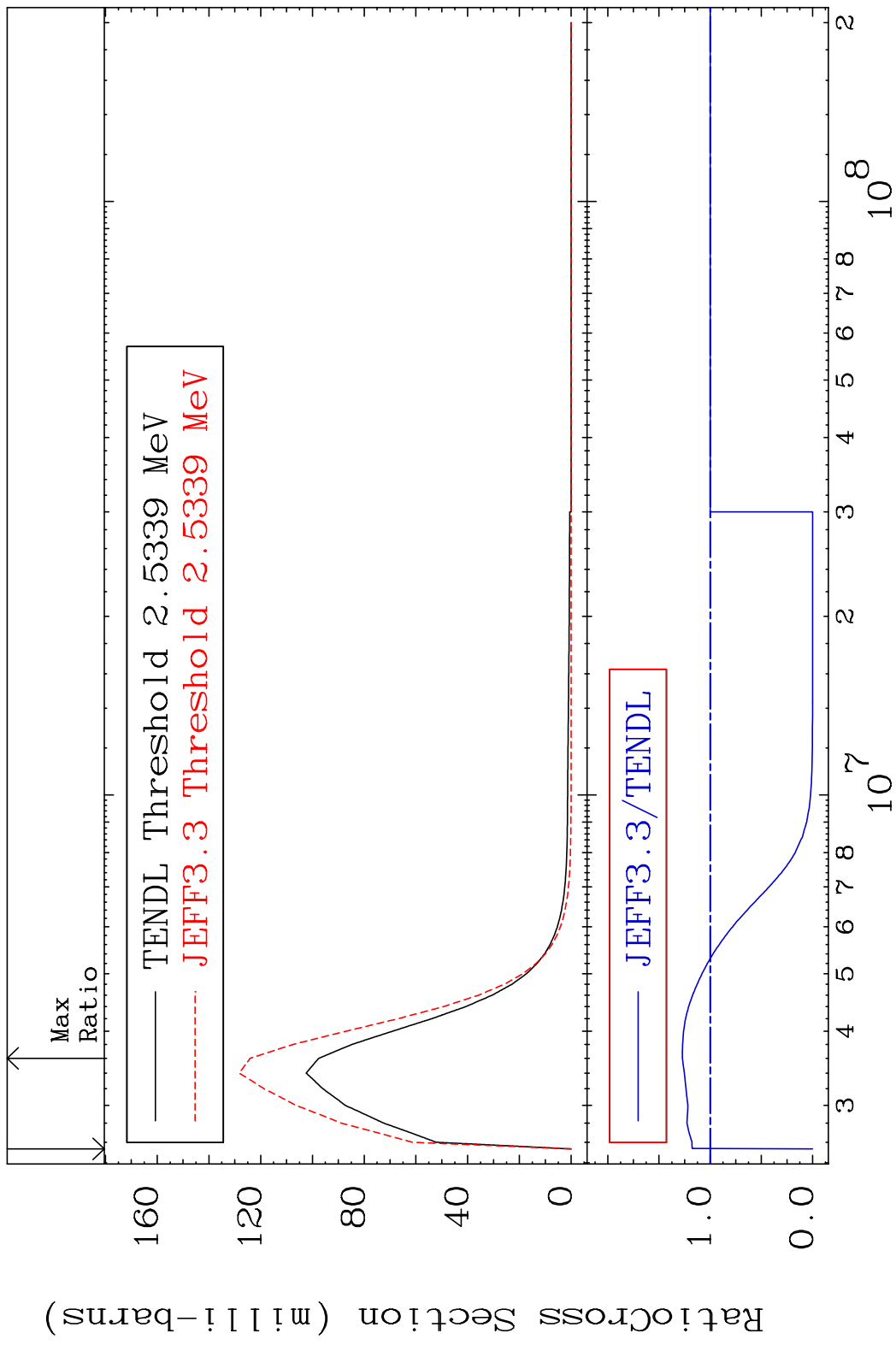


28 Incident Energy (eV) 58-Ce-140

MAT 5837 MT= 59 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 14.71 %

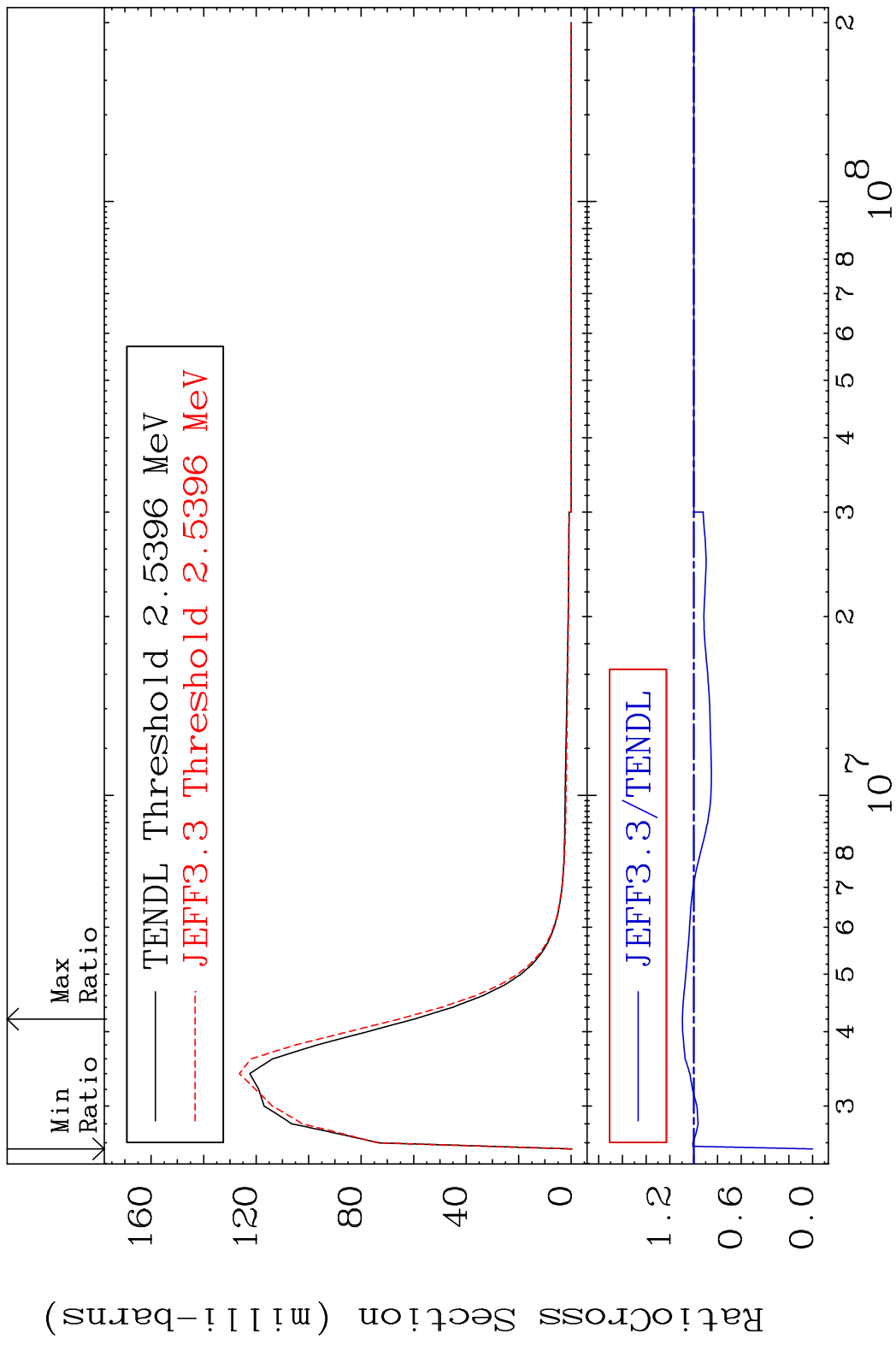


MAT 5837 MT= 60 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 27.18 %

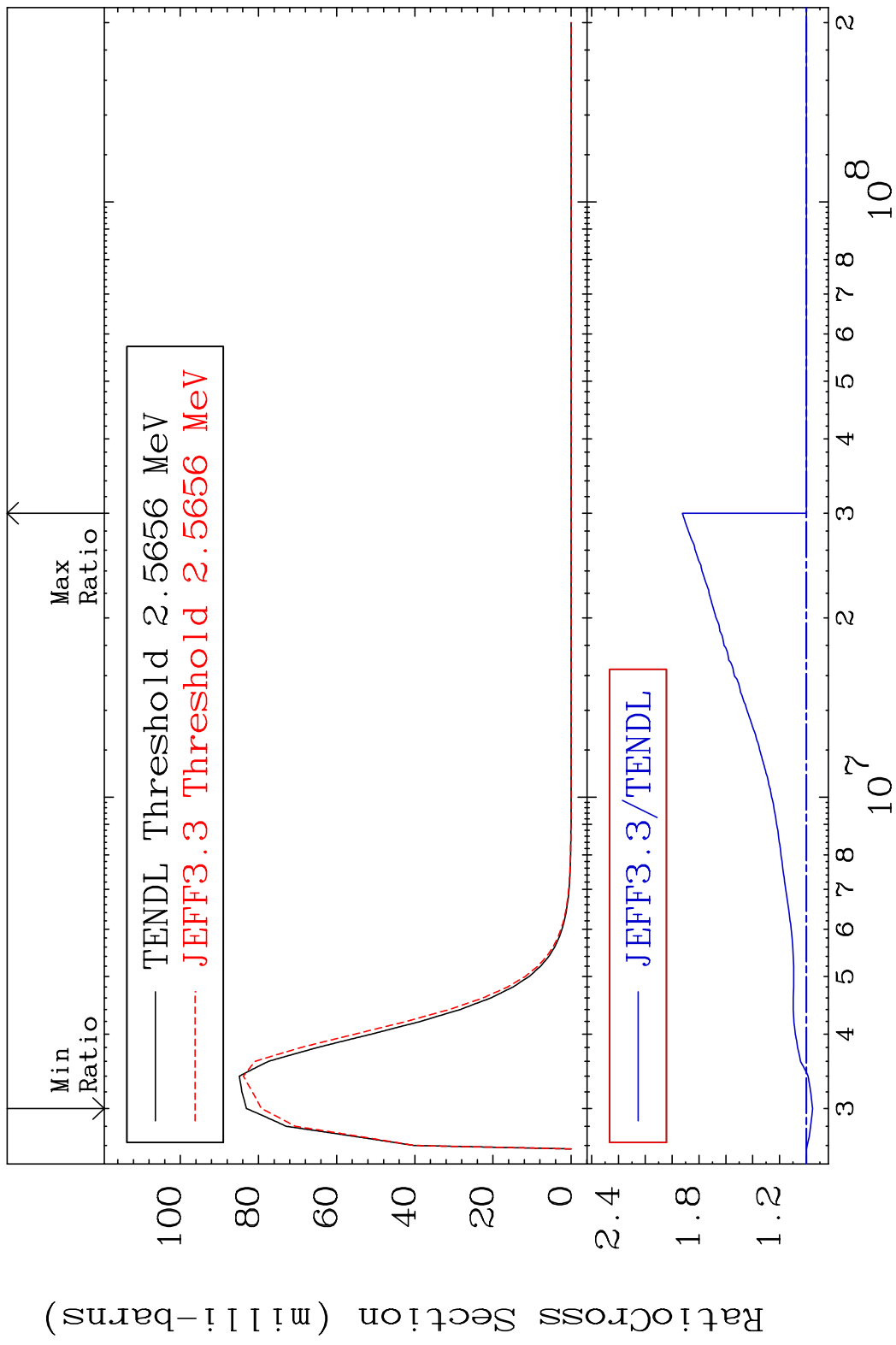


30 Incident Energy (eV) 58-Ce-140

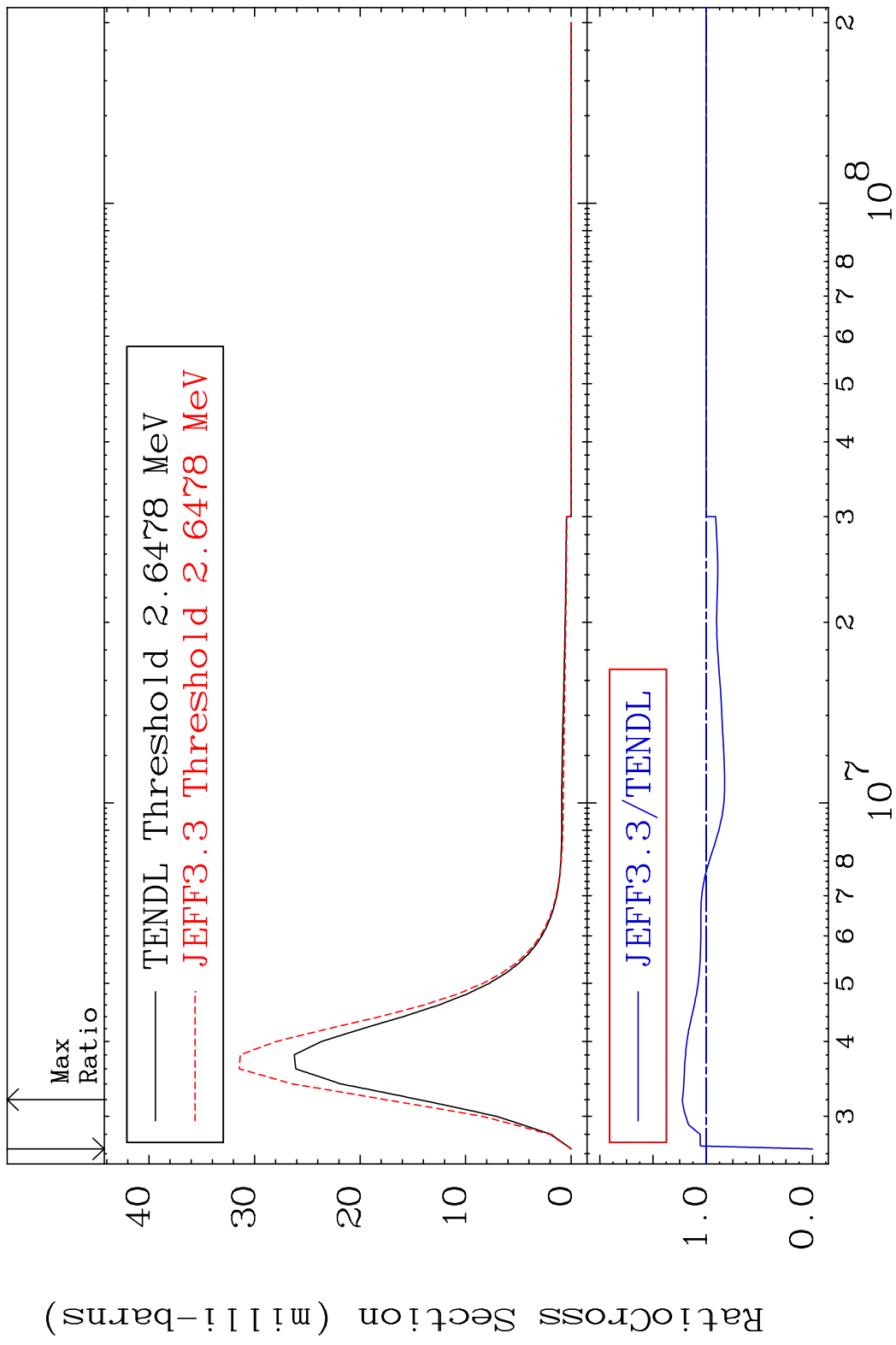
MAT 5837 MT= 61 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 9.569 %



MAT 5837 MT= 62 (n, n') Level 58-Ce-140
 Cross Section -4.588 To 92.41 %



MAT 5837 MT= 63 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 22.41 %

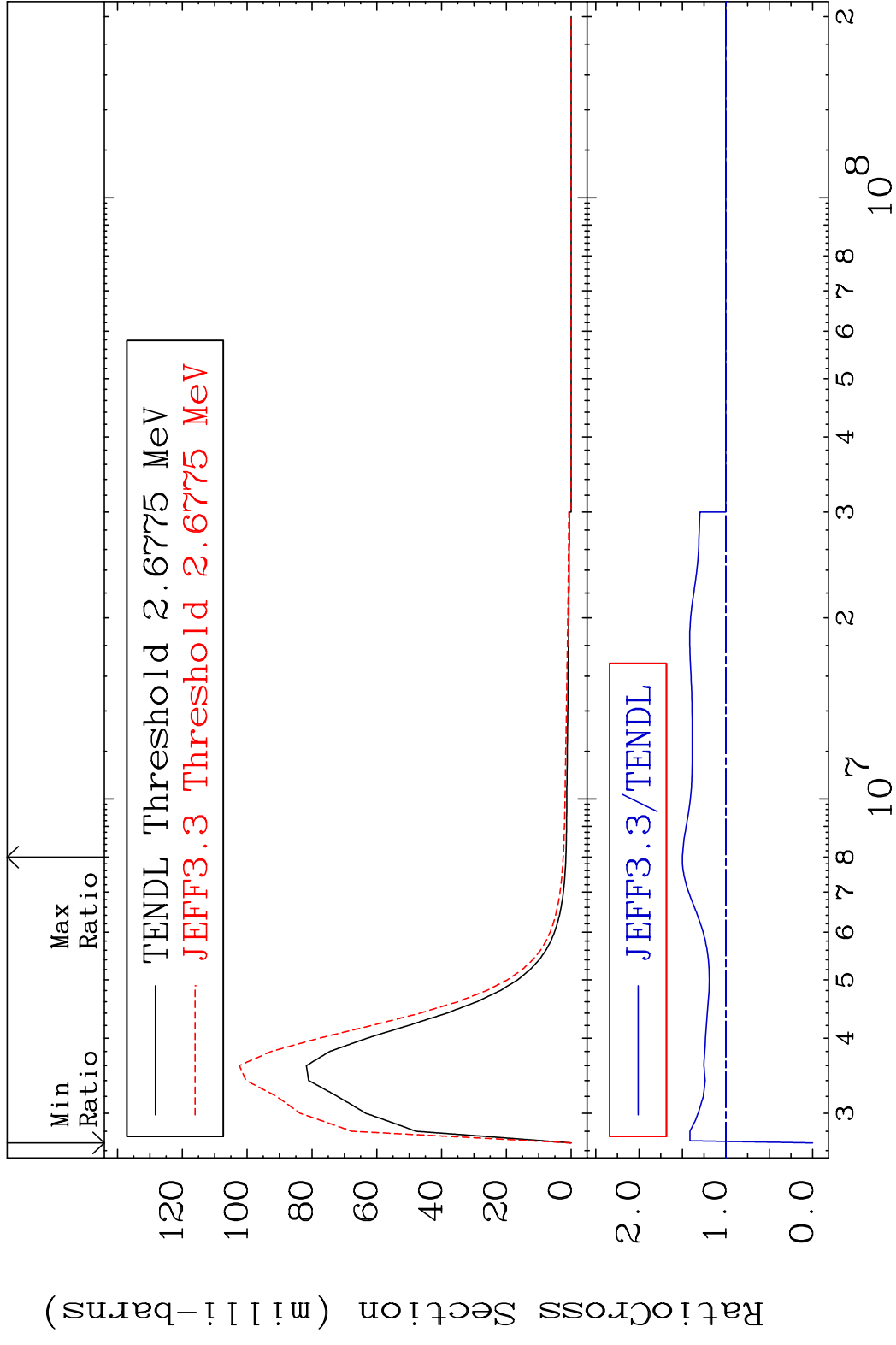


MAT 5837

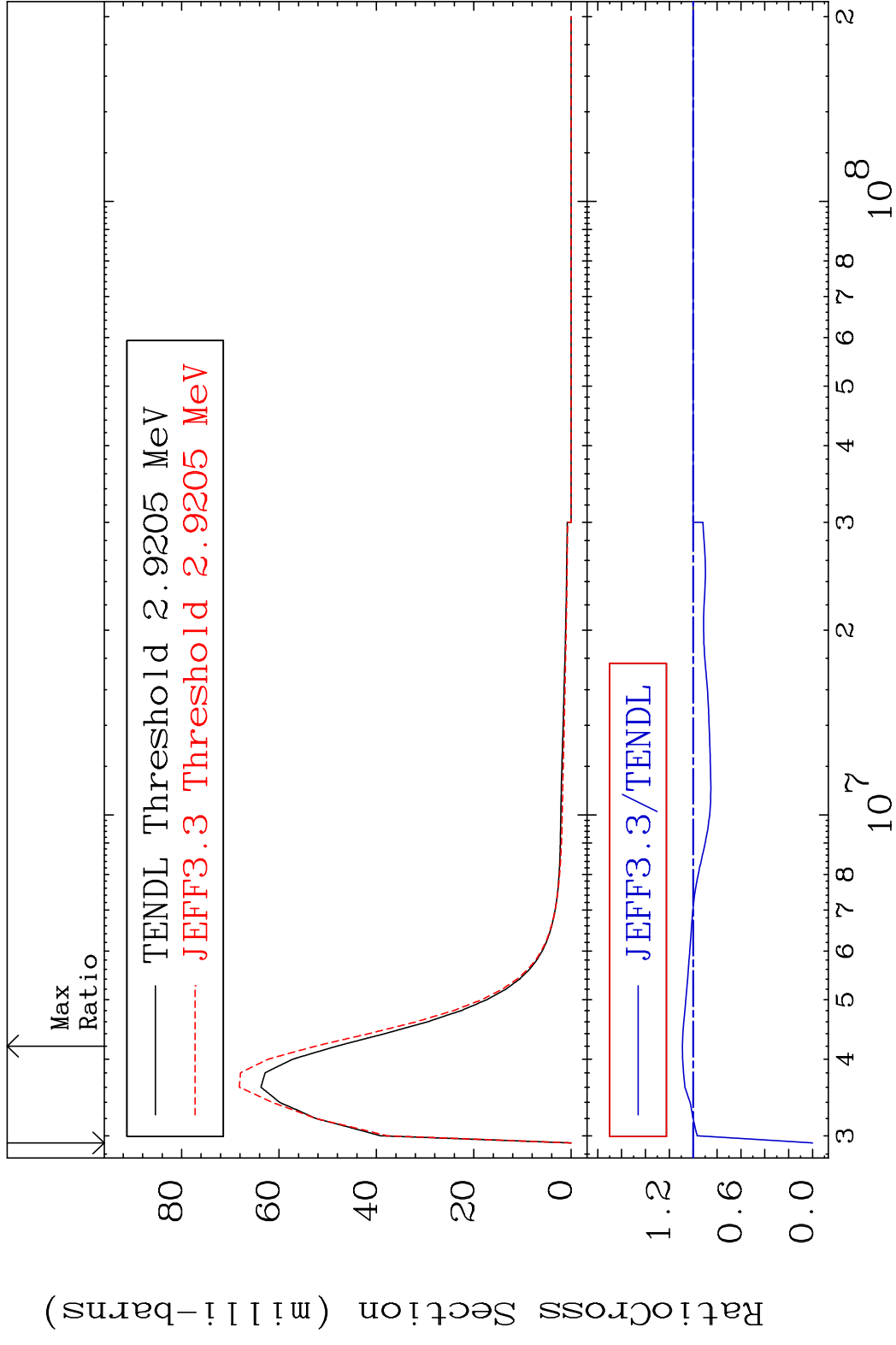
MT= 64 (n, n') Level

58-Ce-140

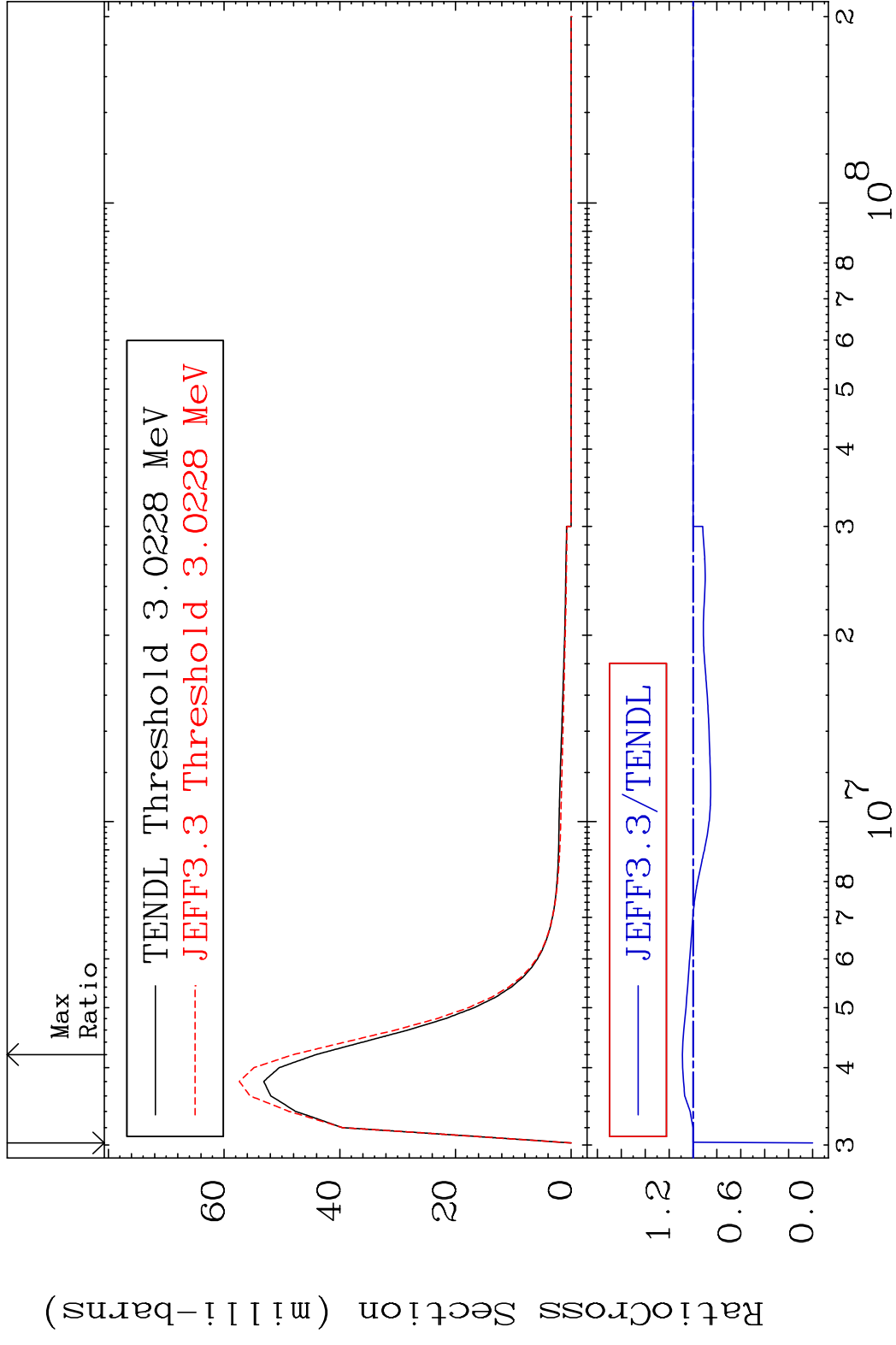
Cross Section -100.0 To 50.12 %



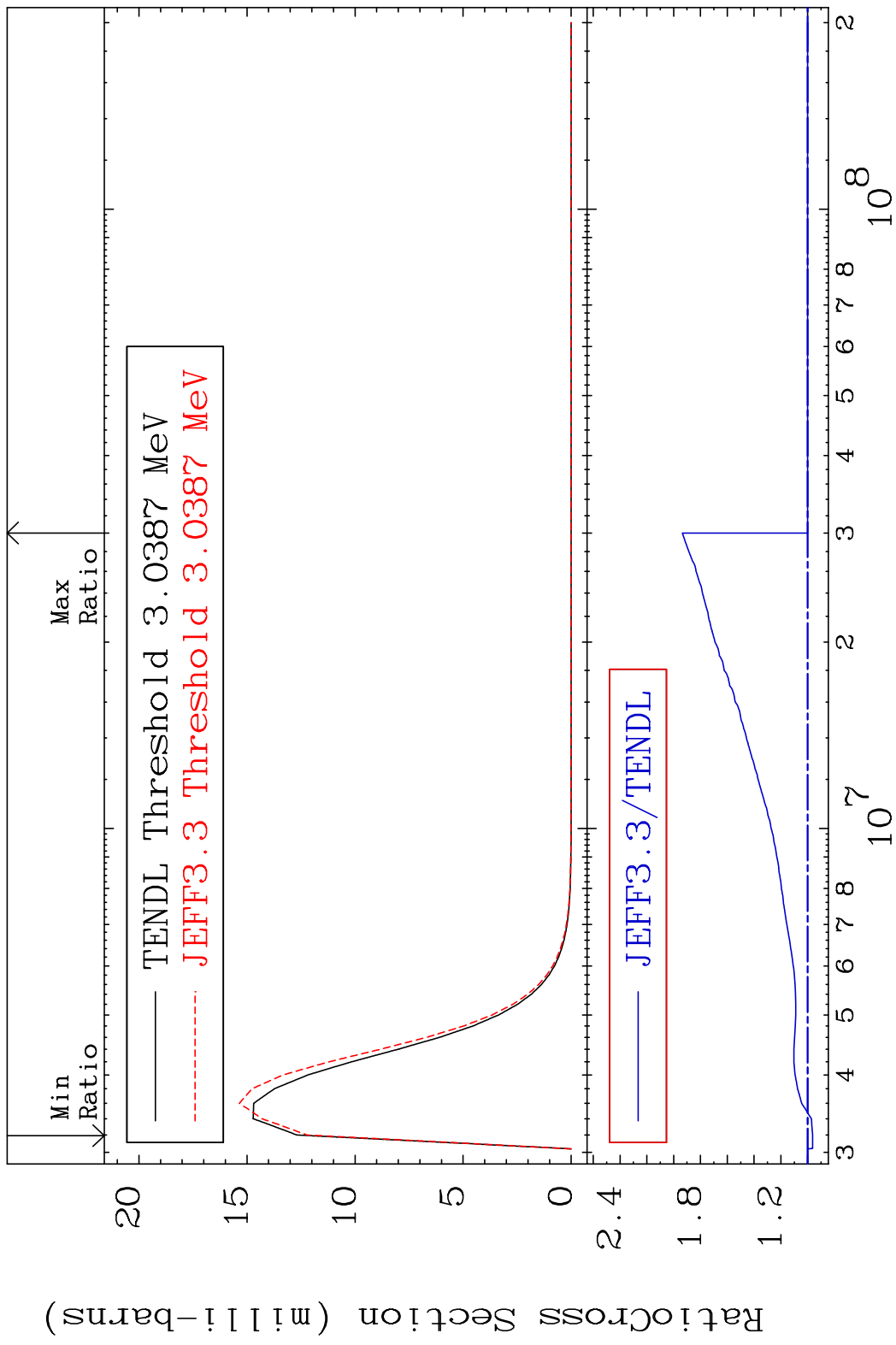
MAT 5837 MT= 65 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 9.092 %



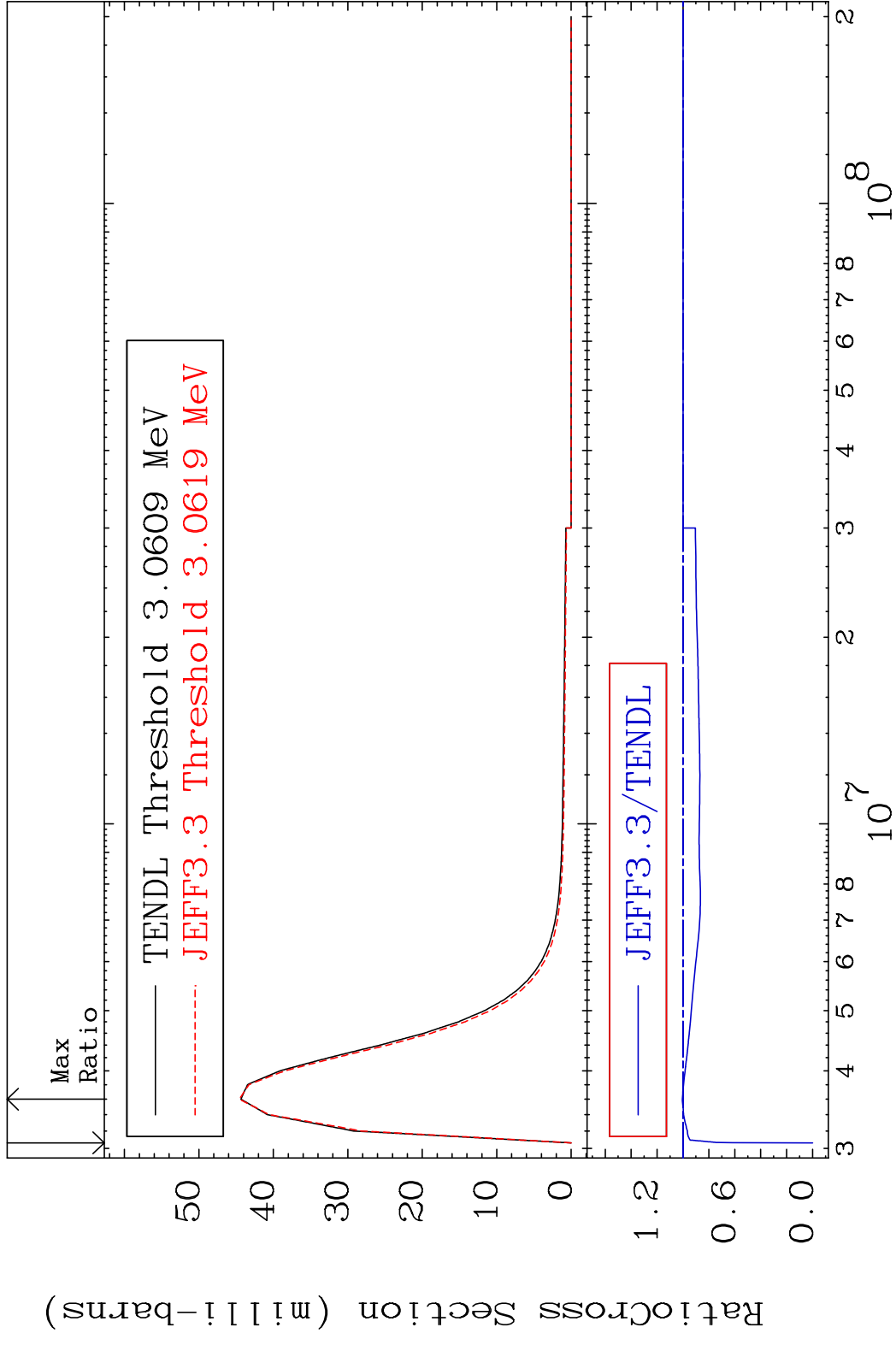
MAT 5837 MT= 66 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 8.915 %



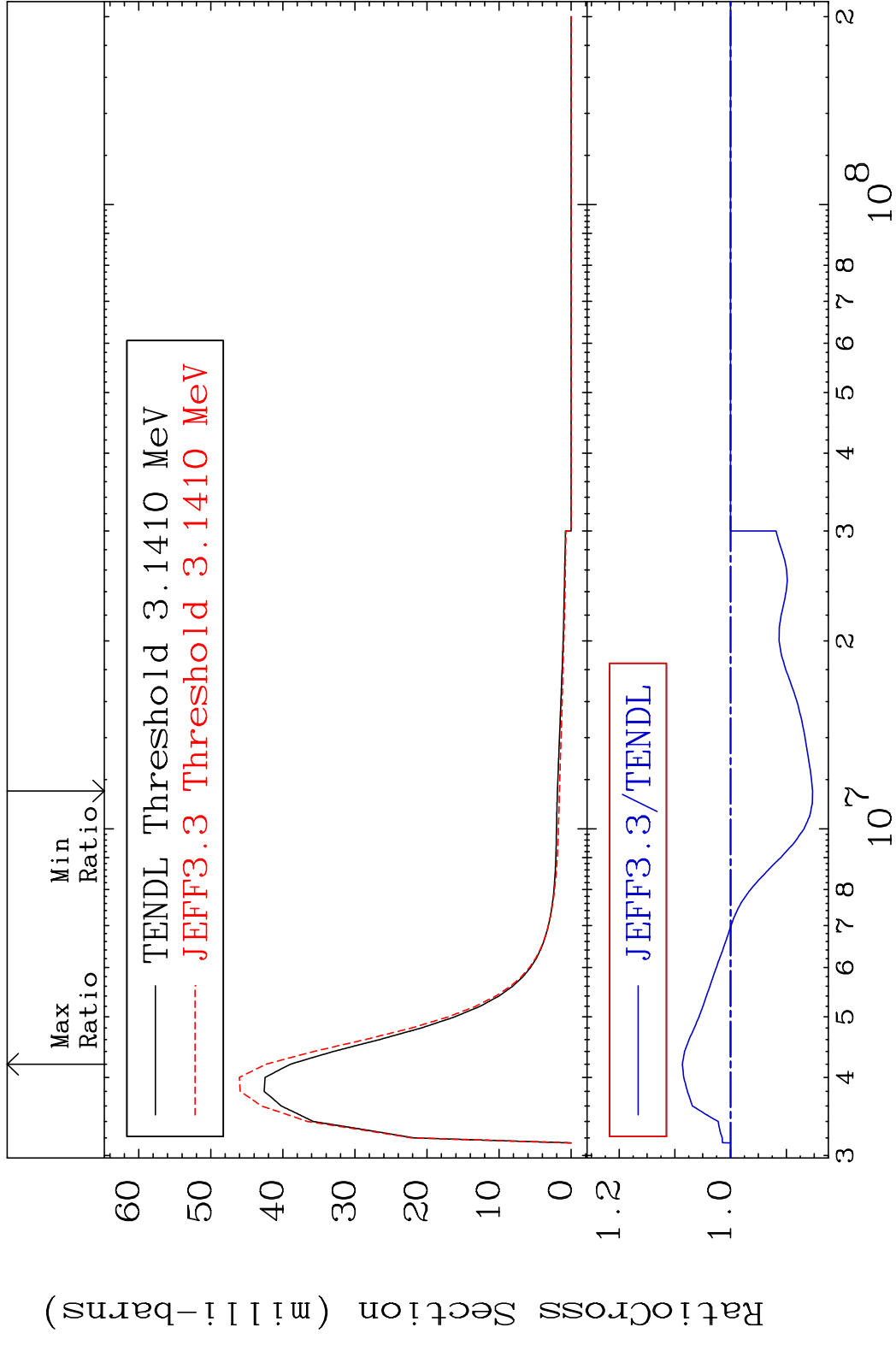
MAT 5837 MT= 67 (n, n') Level 58-Ce-140
 Cross Section -3.653 To 93.51 %



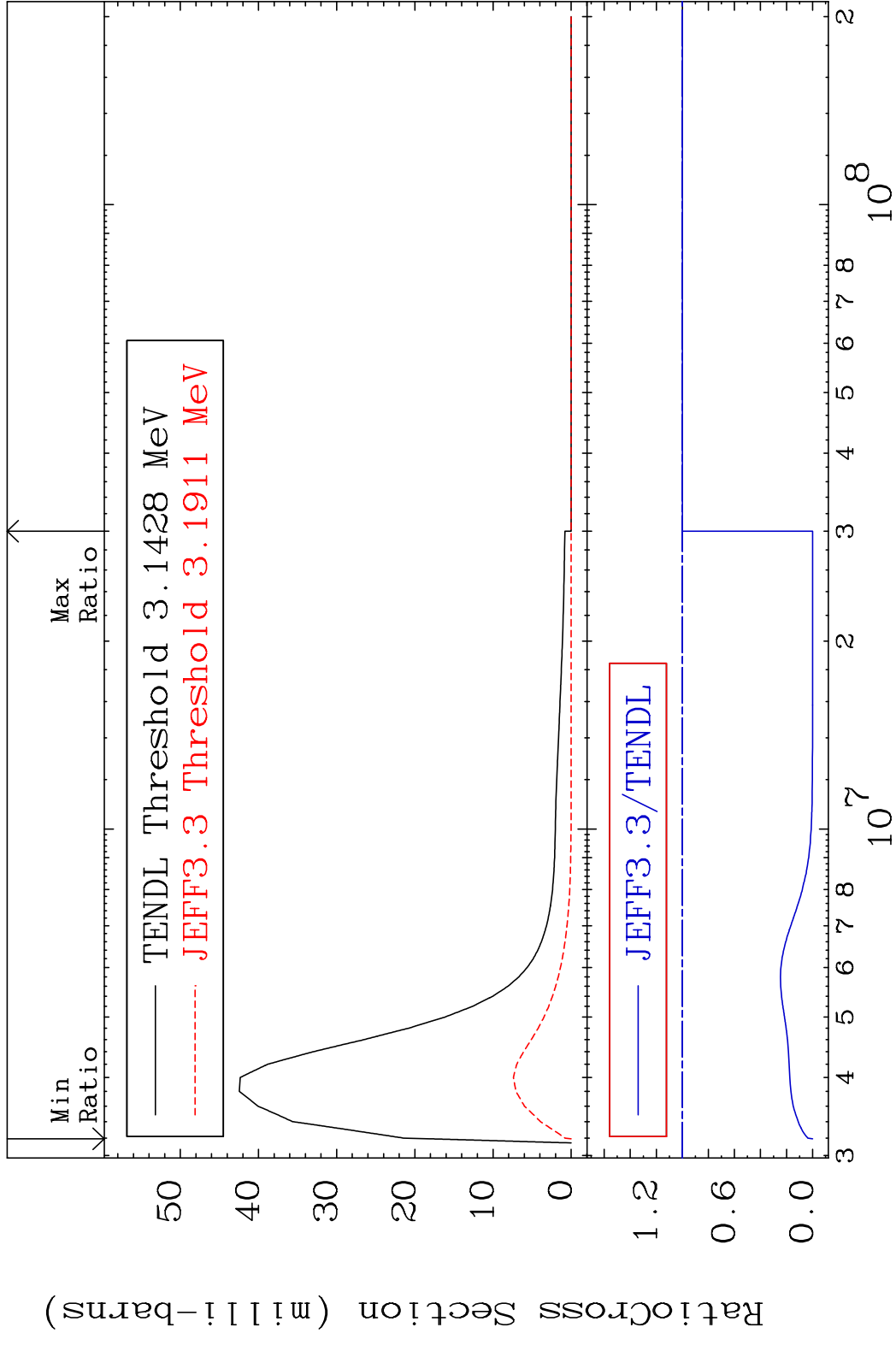
MAT 5837 MT= 68 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 0.469 %



MAT 5837 MT= 69 (n,n') Level 58-Ce-140
 Cross Section -14.72 To 8.662 %

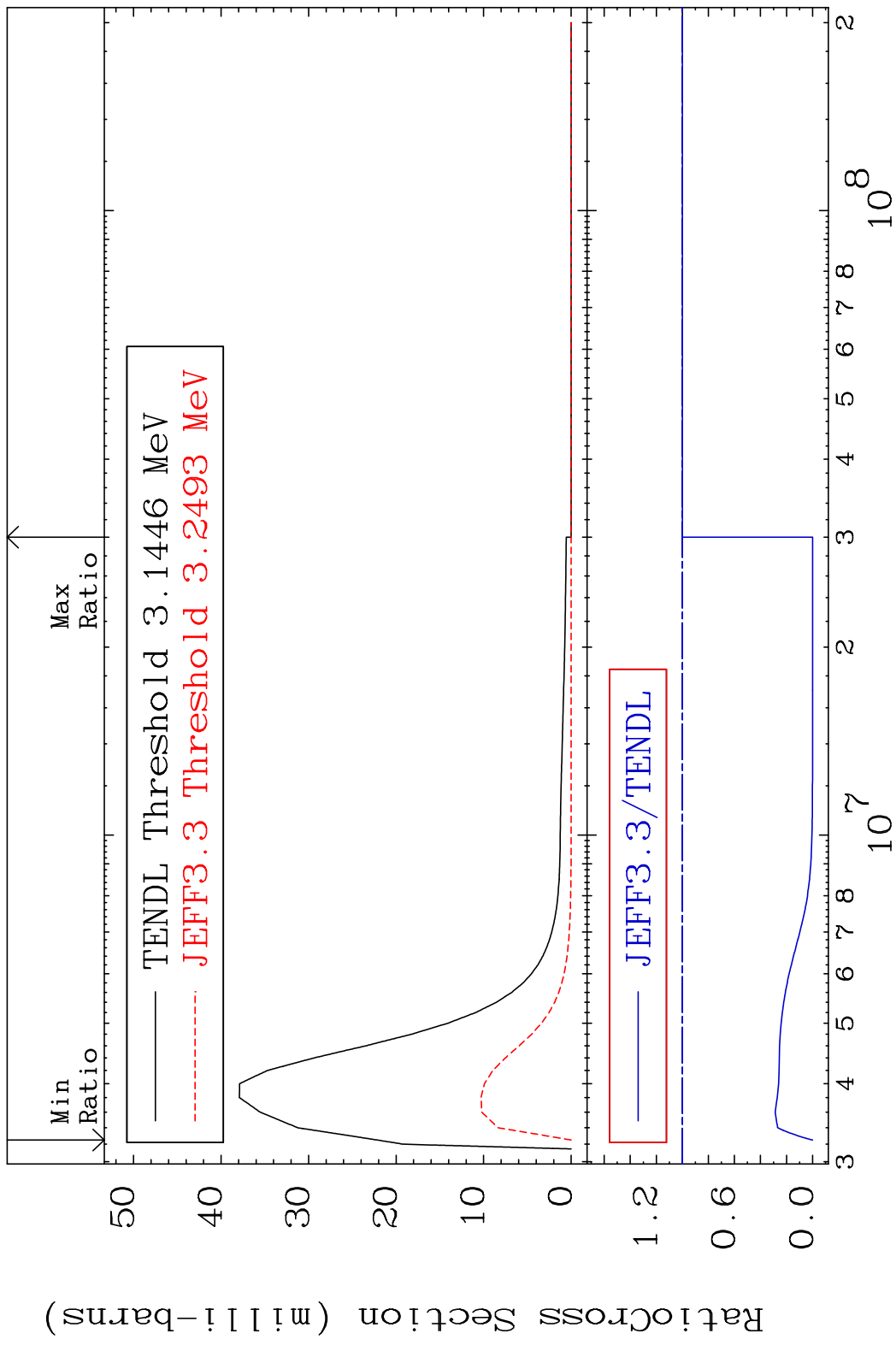


MAT 5837 MT= 70 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 0.000 %

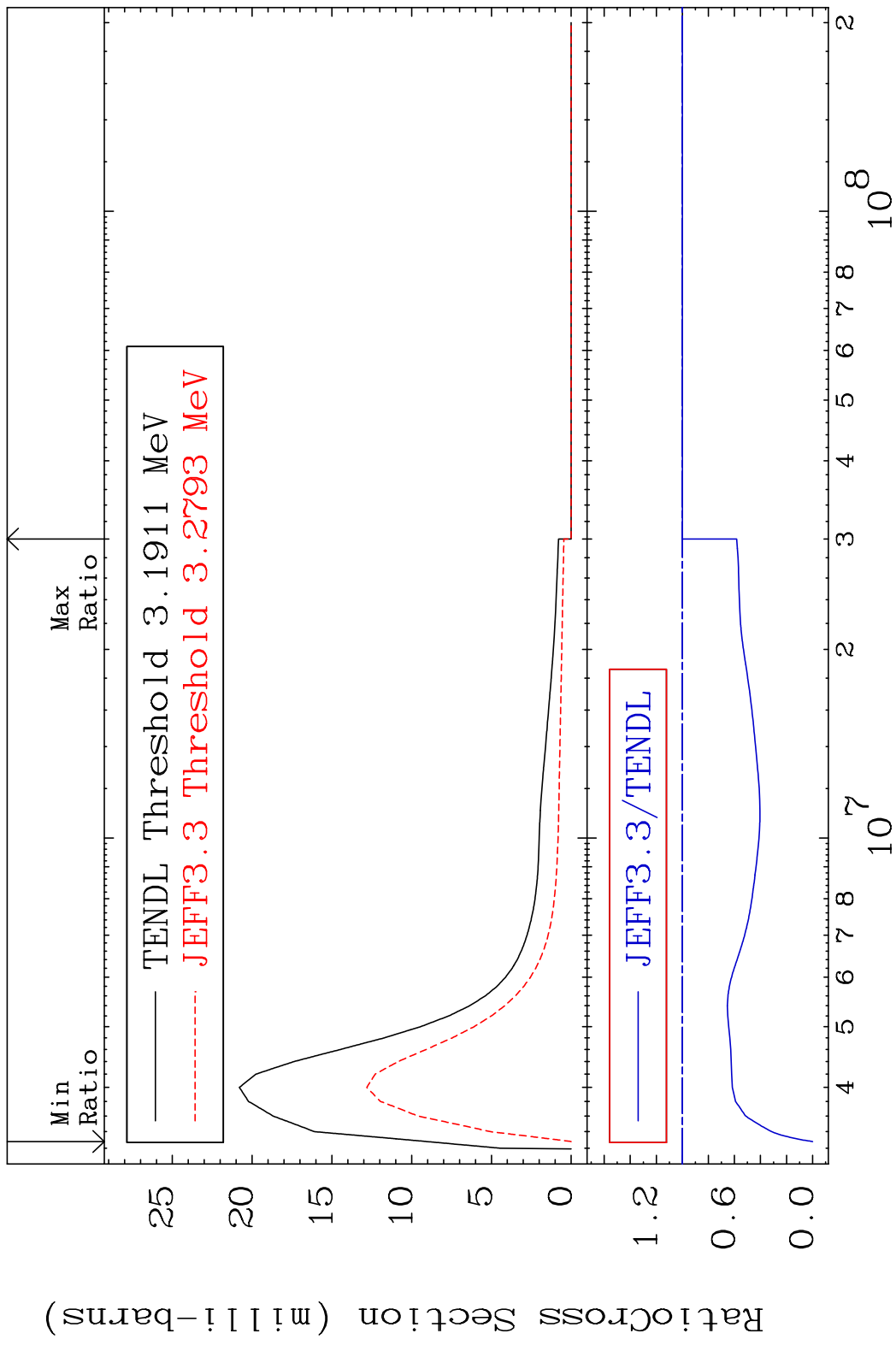


40 Incident Energy (eV) 58-Ce-140

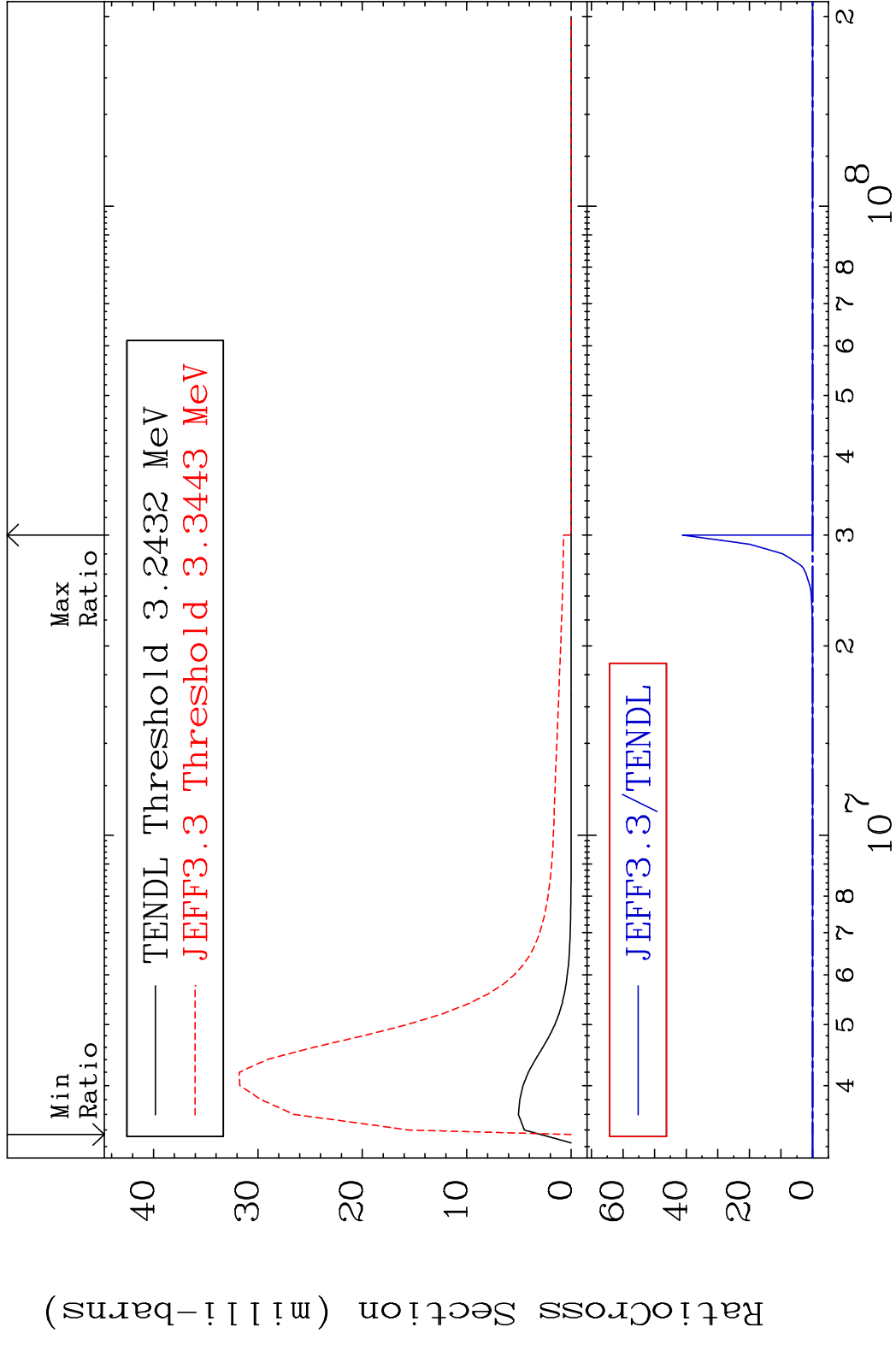
MAT 5837 MT= 71 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 0.000 %



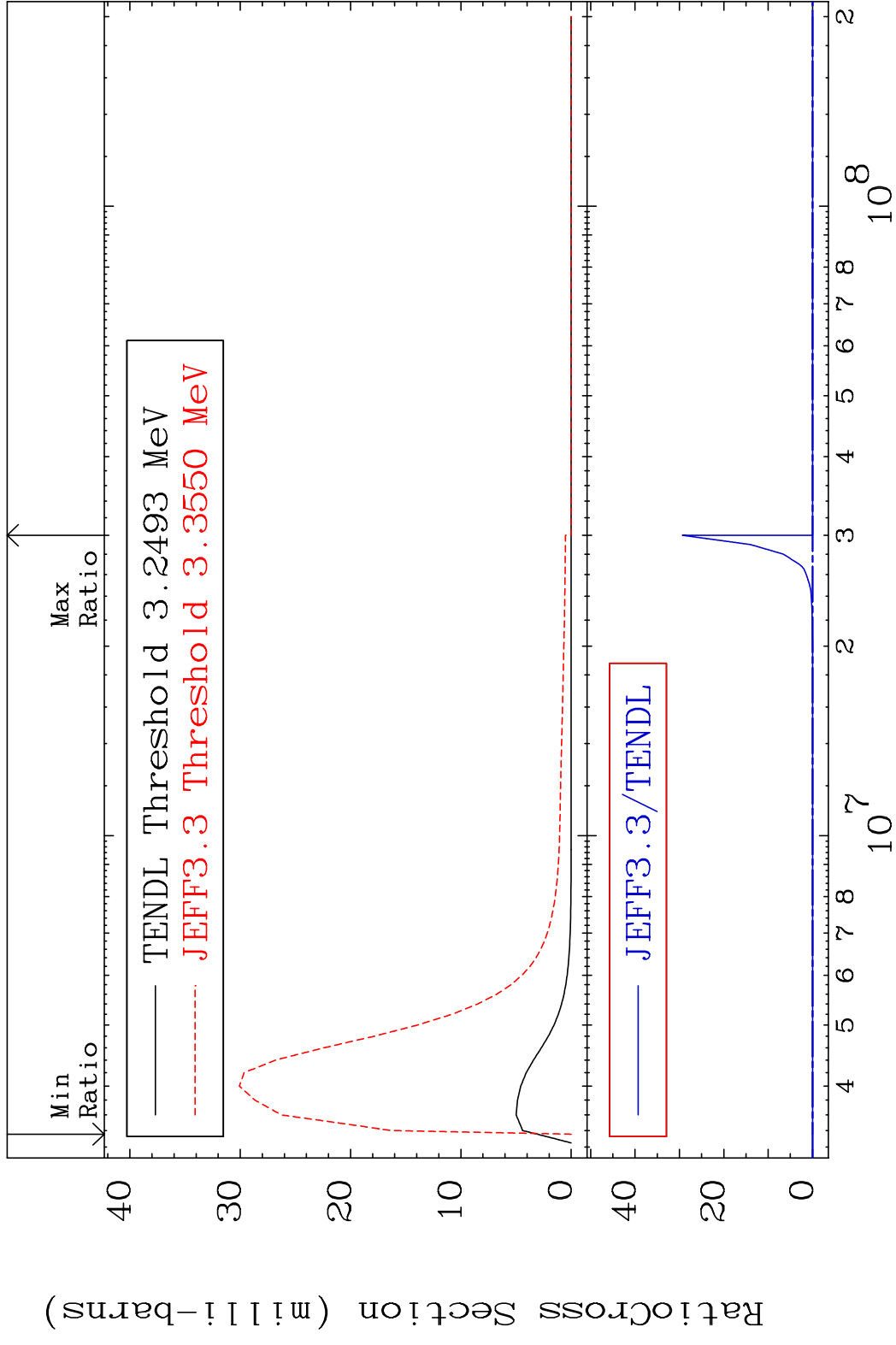
MAT 5837 MT= 72 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 0.000 %



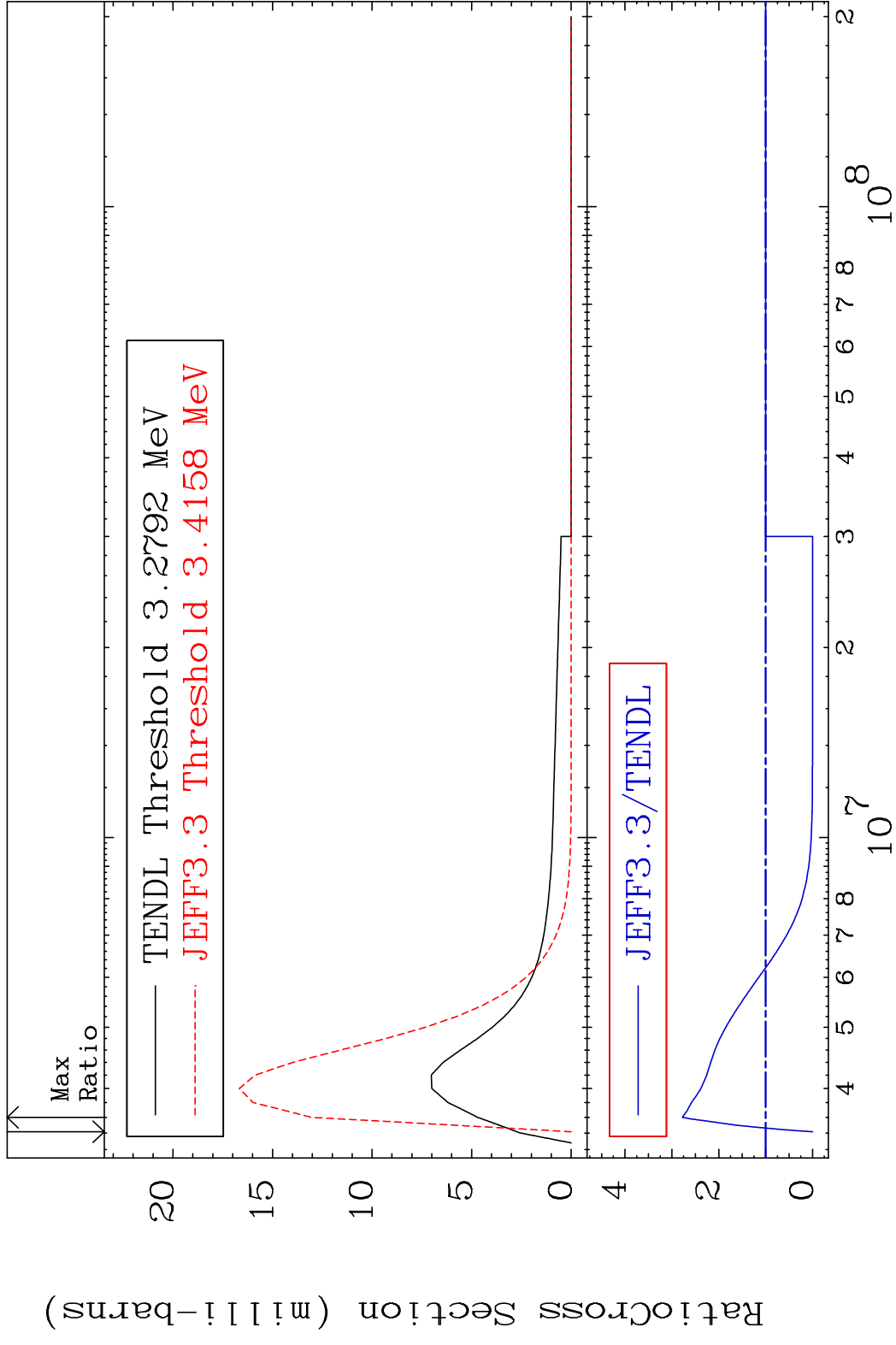
MAT 5837 MT= 73 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 9999. %



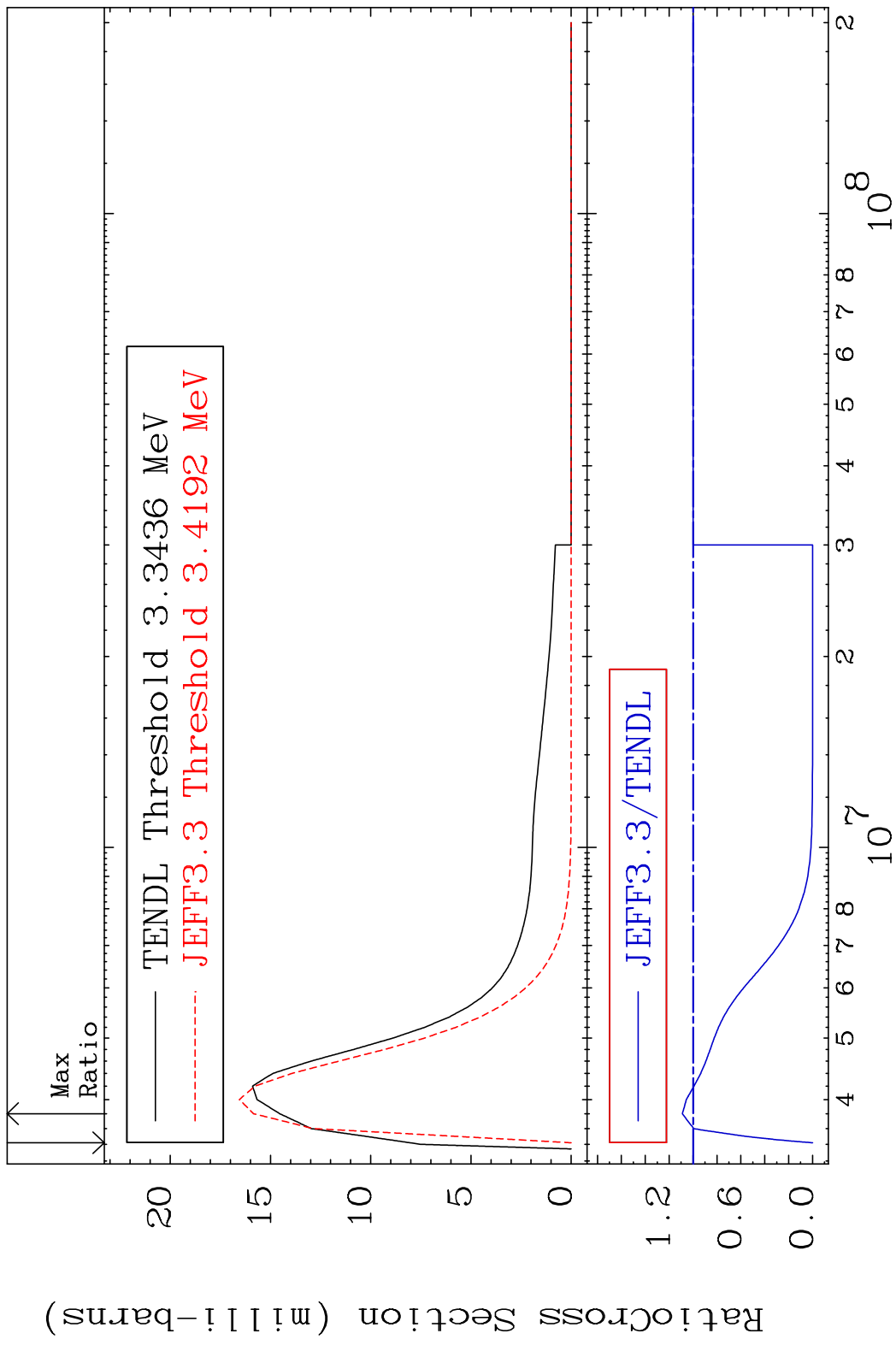
MAT 5837 MT= 74 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 9999. %



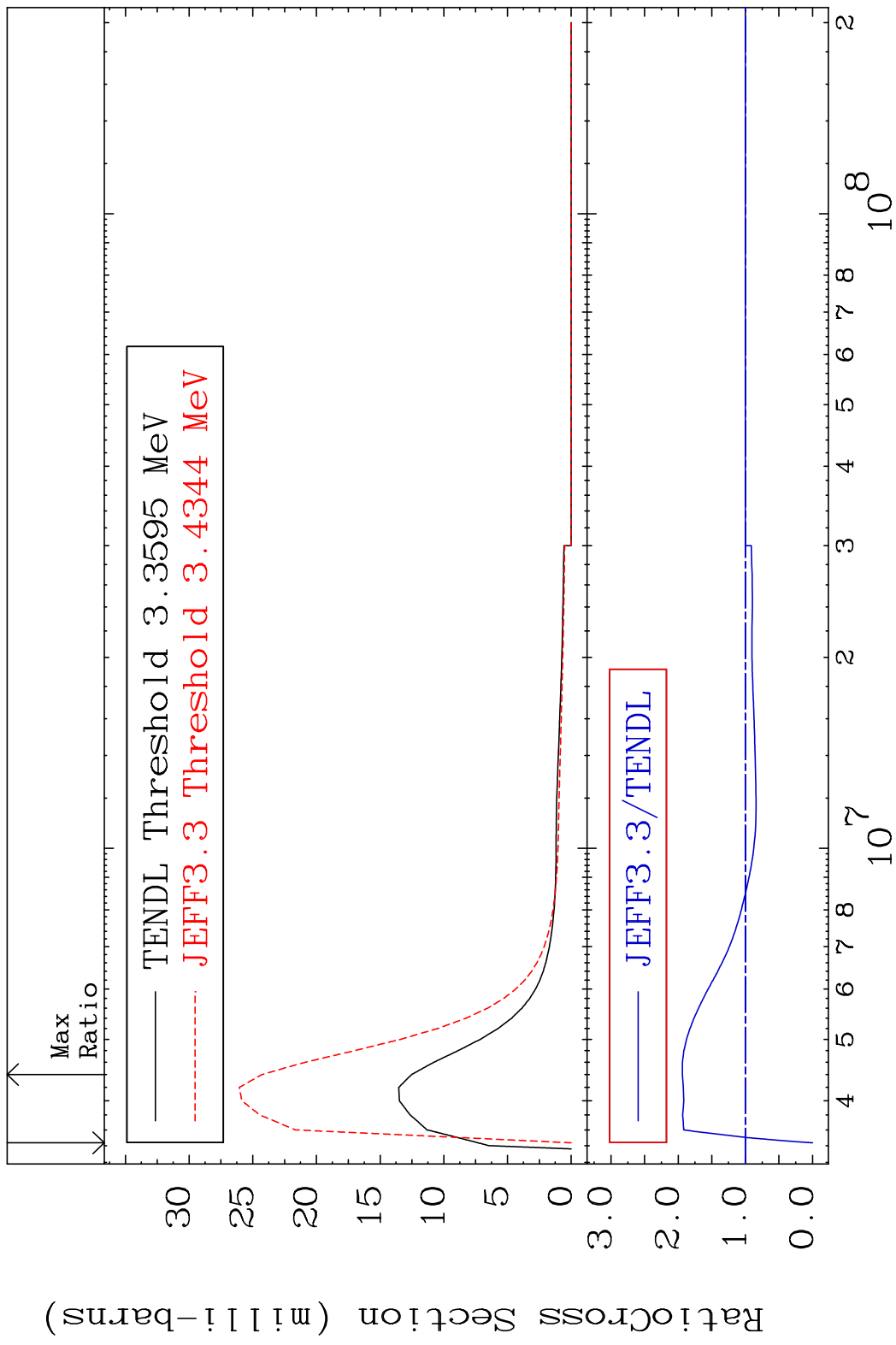
MAT 5837 MT= 75 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 177.7 %



MAT 5837 MT= 76 (n,n') Level 58-Ce-140
 Cross Section -100.0 To 8.951 %



MAT 5837 MT= 77 (n, n') Level 58-Ce-140
 Cross Section -100.0 To 93.78 %

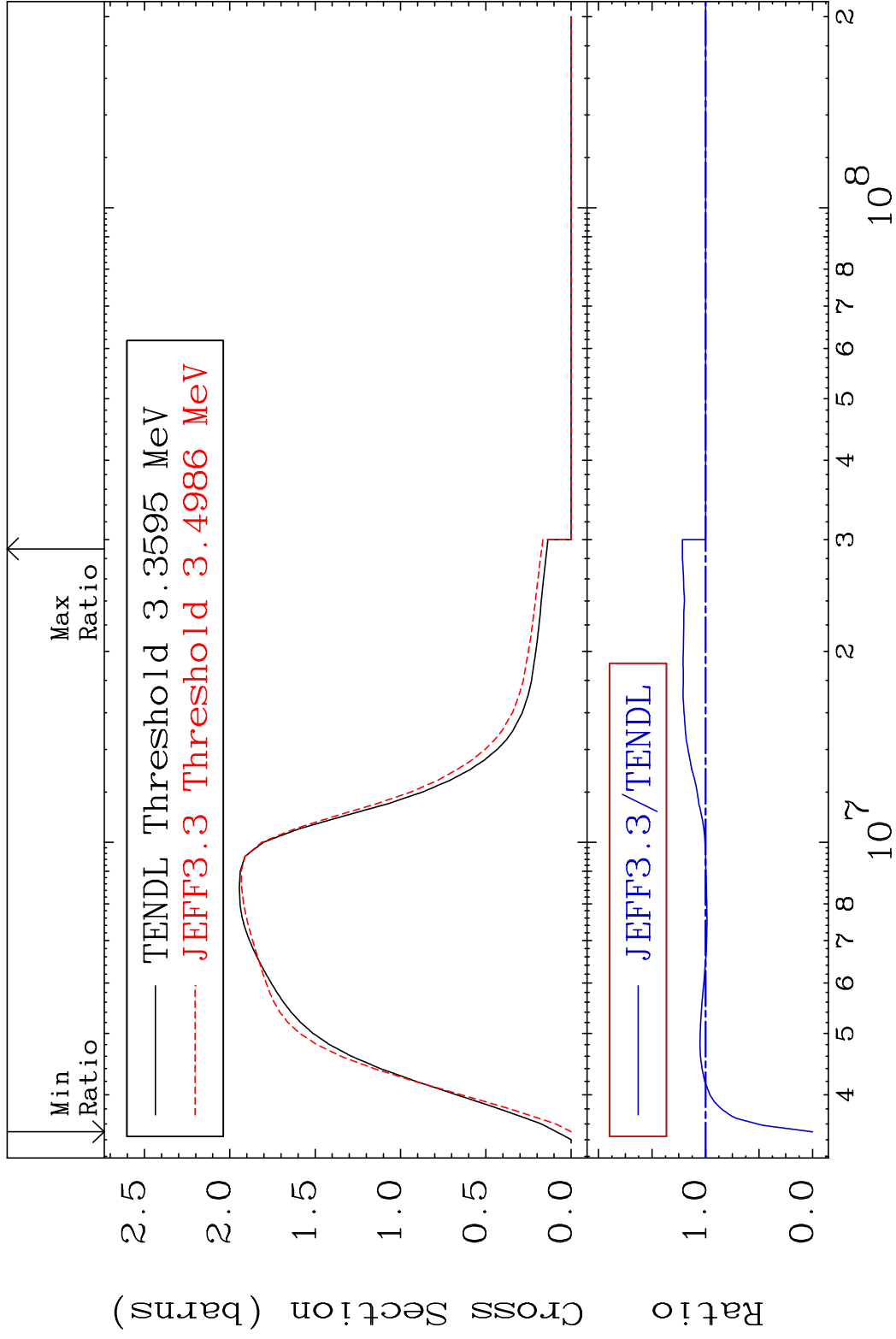


MAT 5837

(n,n') Continuum

58-Ce-140

Cross Section -100.0 To 21.68 %



48

Incident Energy (eV)

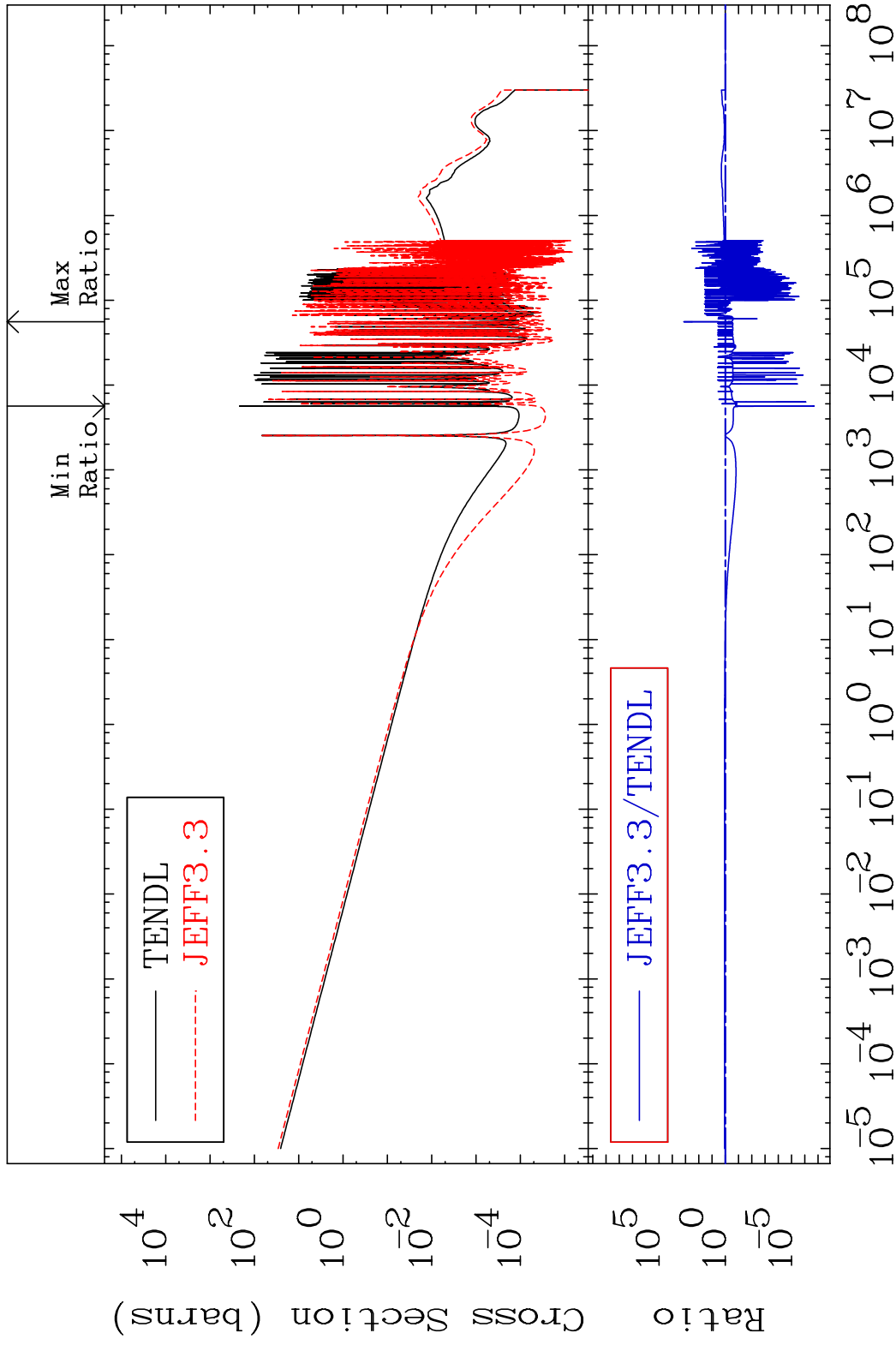
58-Ce-140

MAT 5837

(n, γ)

58-Ce-140

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

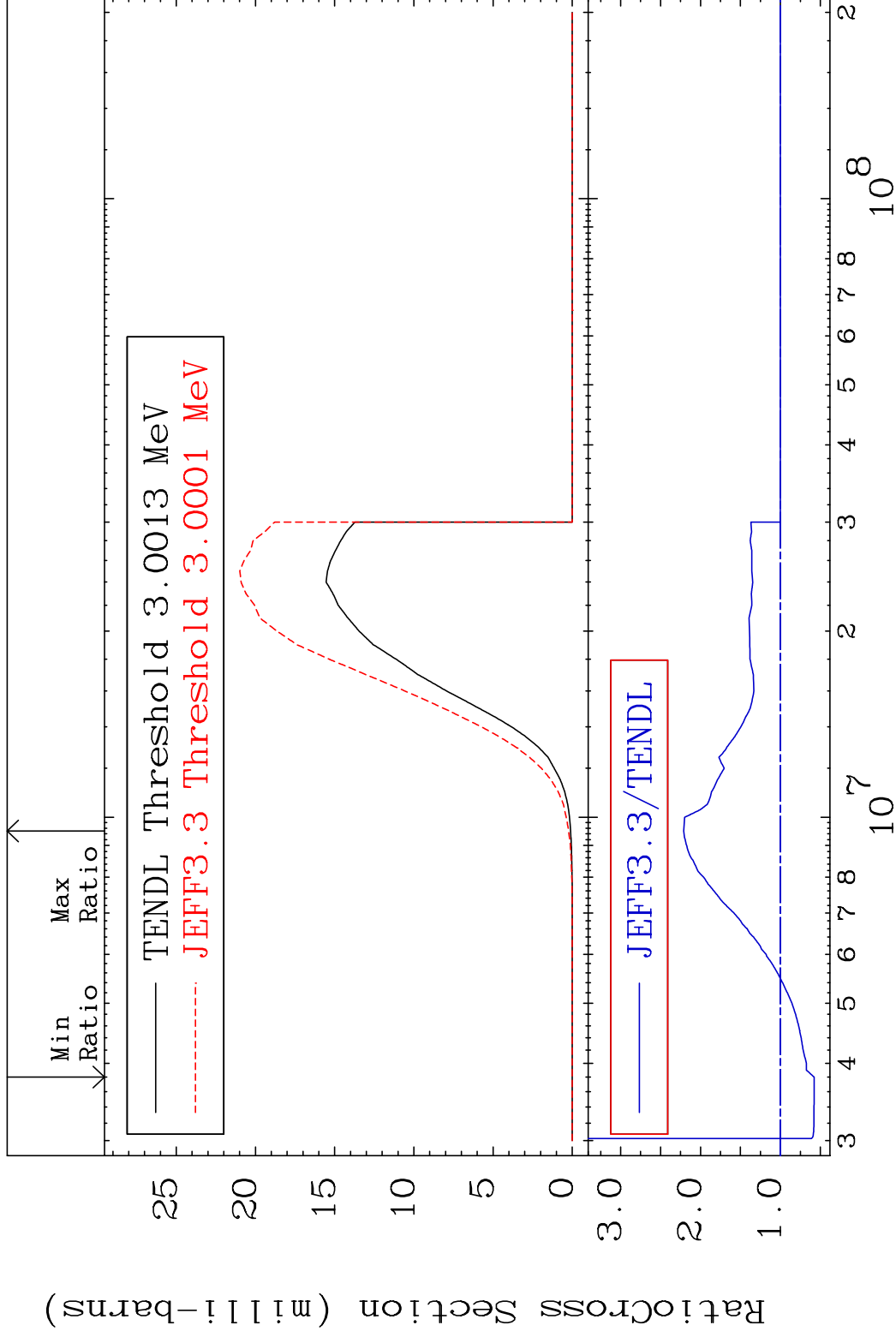
58-Ce-140

MAT 5837

(n, p)

58-Ce-140

Cross Section -42.22 To 121.1 %

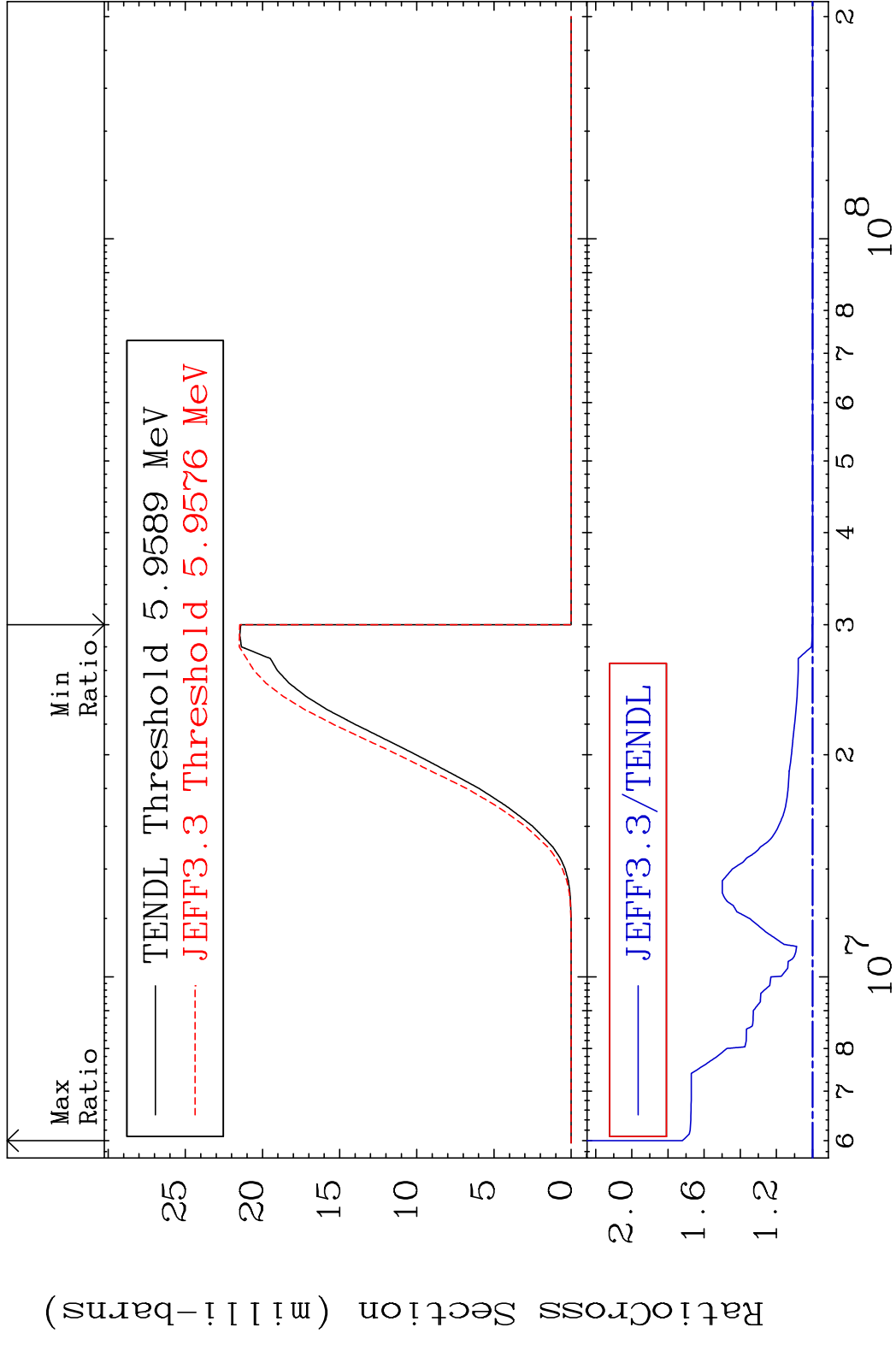


50

Incident Energy (eV)

58-Ce-140

MAT 5837 (n,d) 58-Ce-140
 Cross Section 0.000 To 72.03 %

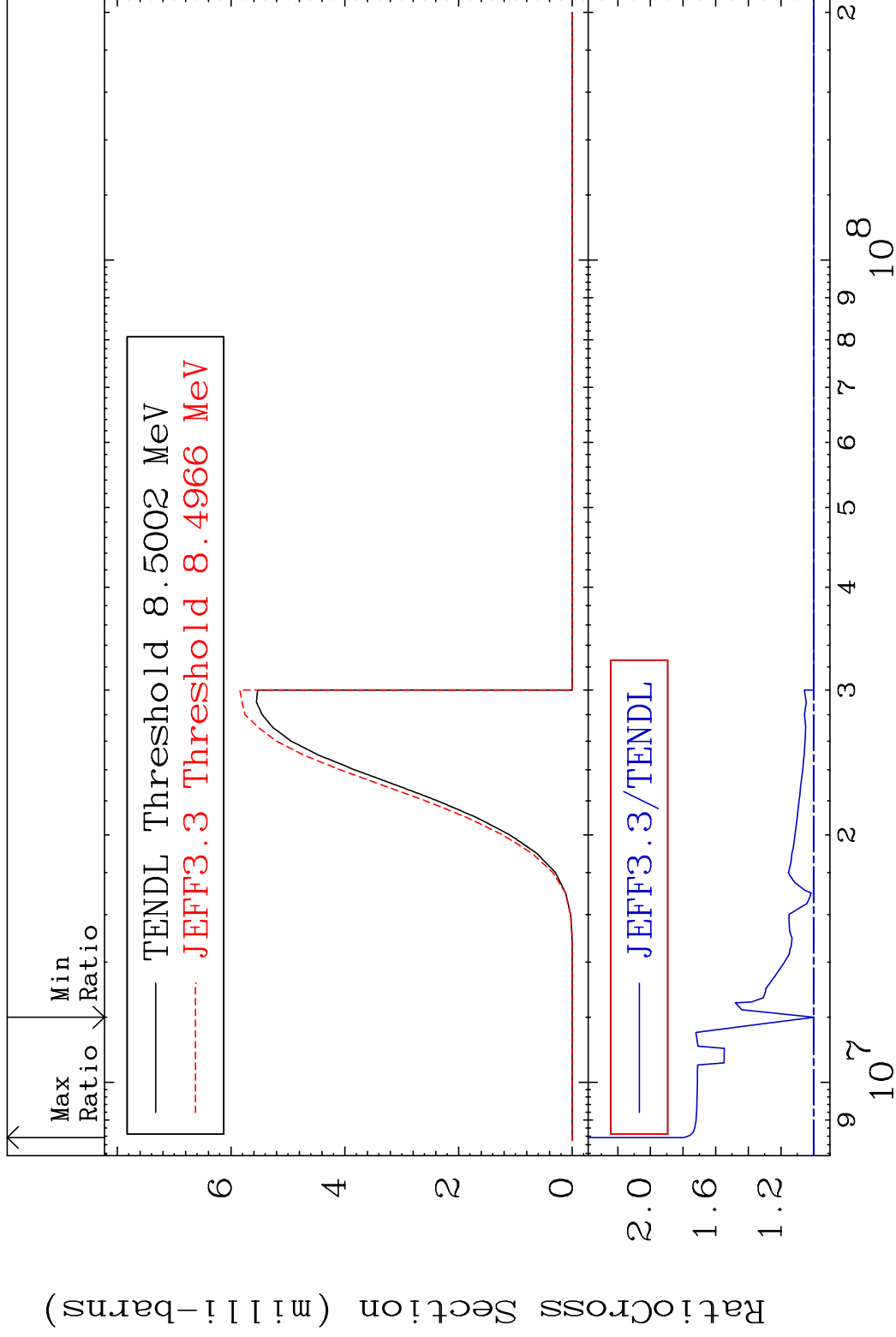


MAT 5837

(n, t)

58-Ce-140

Cross Section -0.310 To 79.64 %



52

Incident Energy (eV)

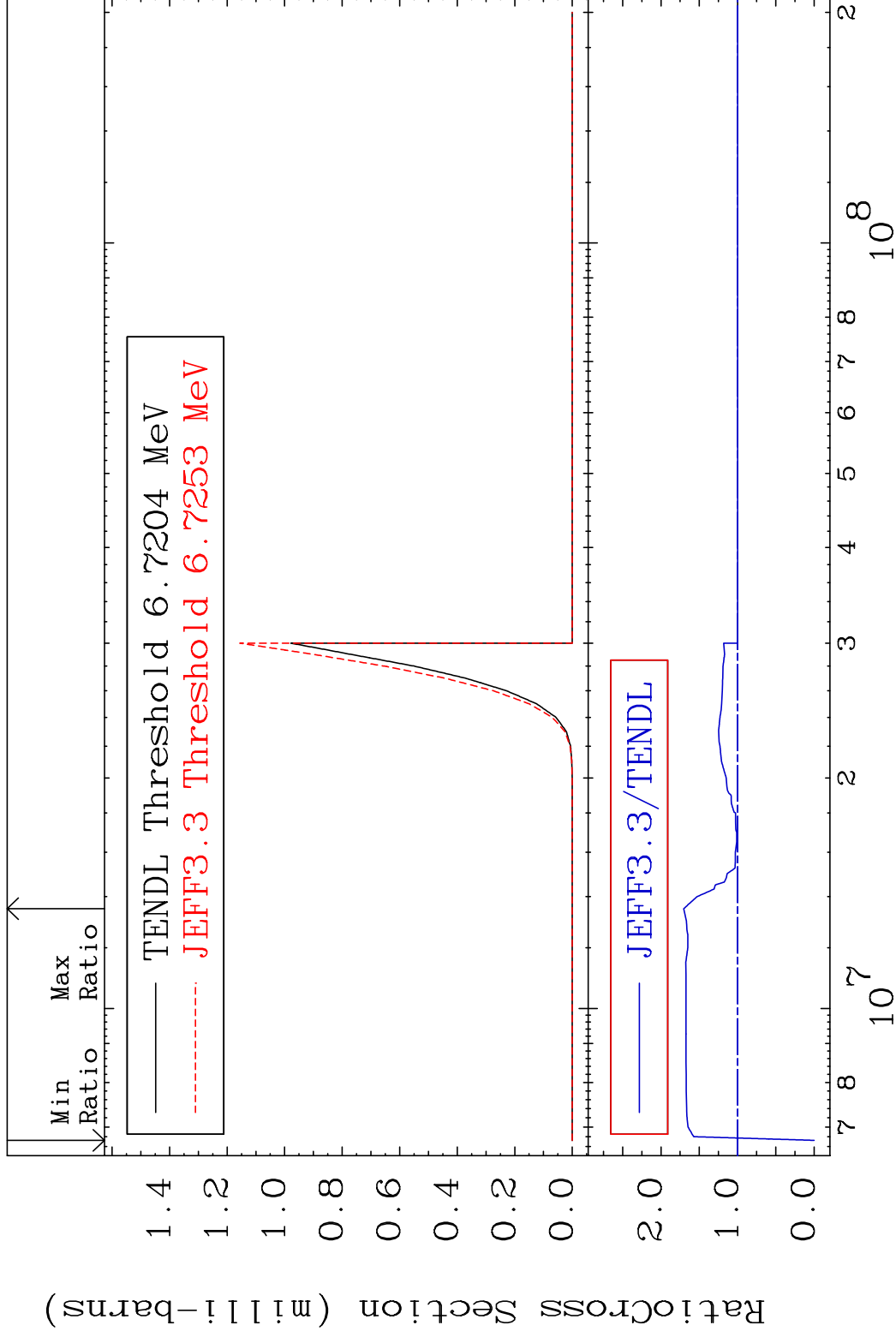
58-Ce-140

MAT 5837

(n, He-3)

58-Ce-140

Cross Section -100.0 To 70.37 %



53

Incident Energy (eV)

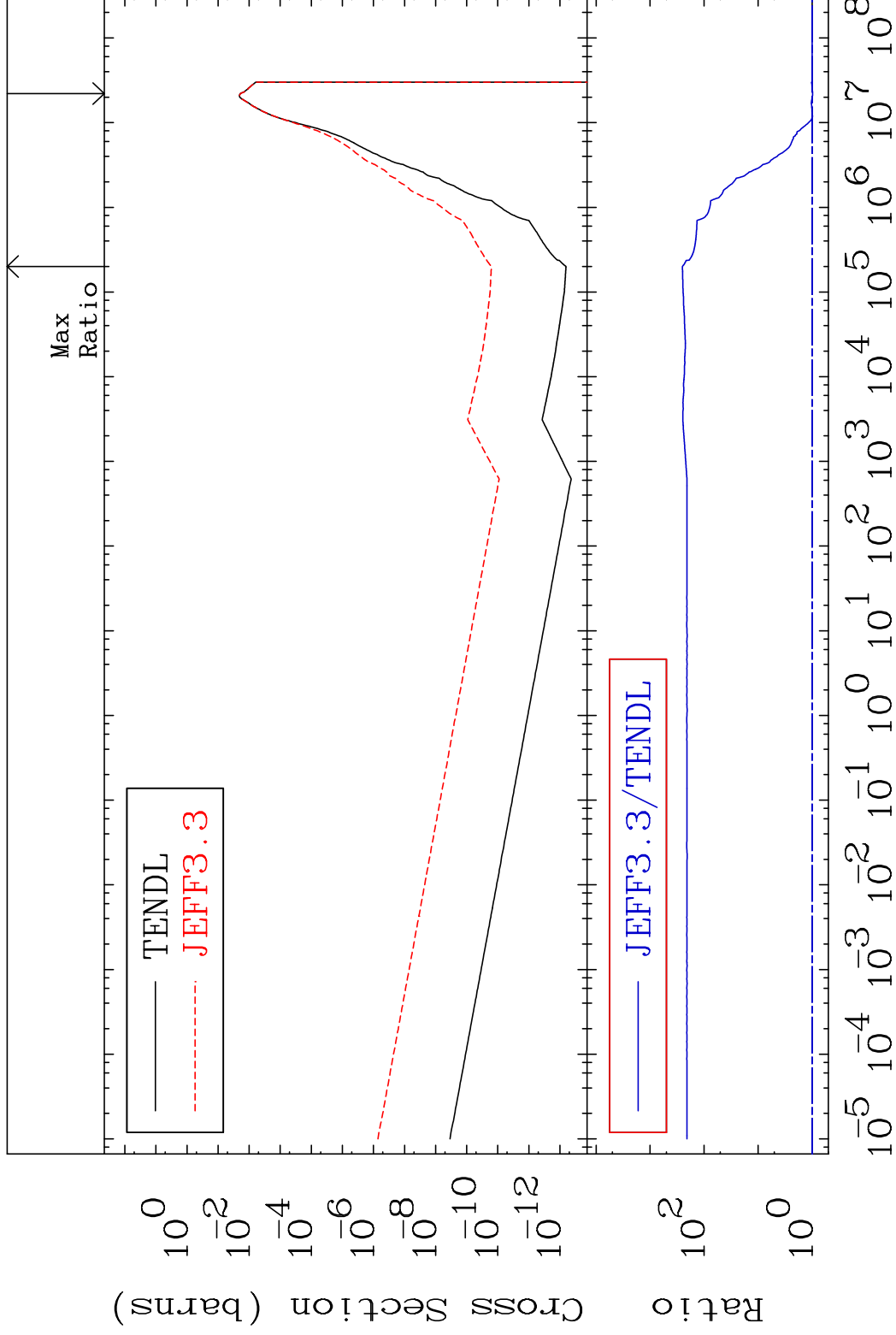
58-Ce-140

MAT 5837

(n, α)

58-Ce-140

Cross Section -1.951 To 9999. %



54

Incident Energy (eV)

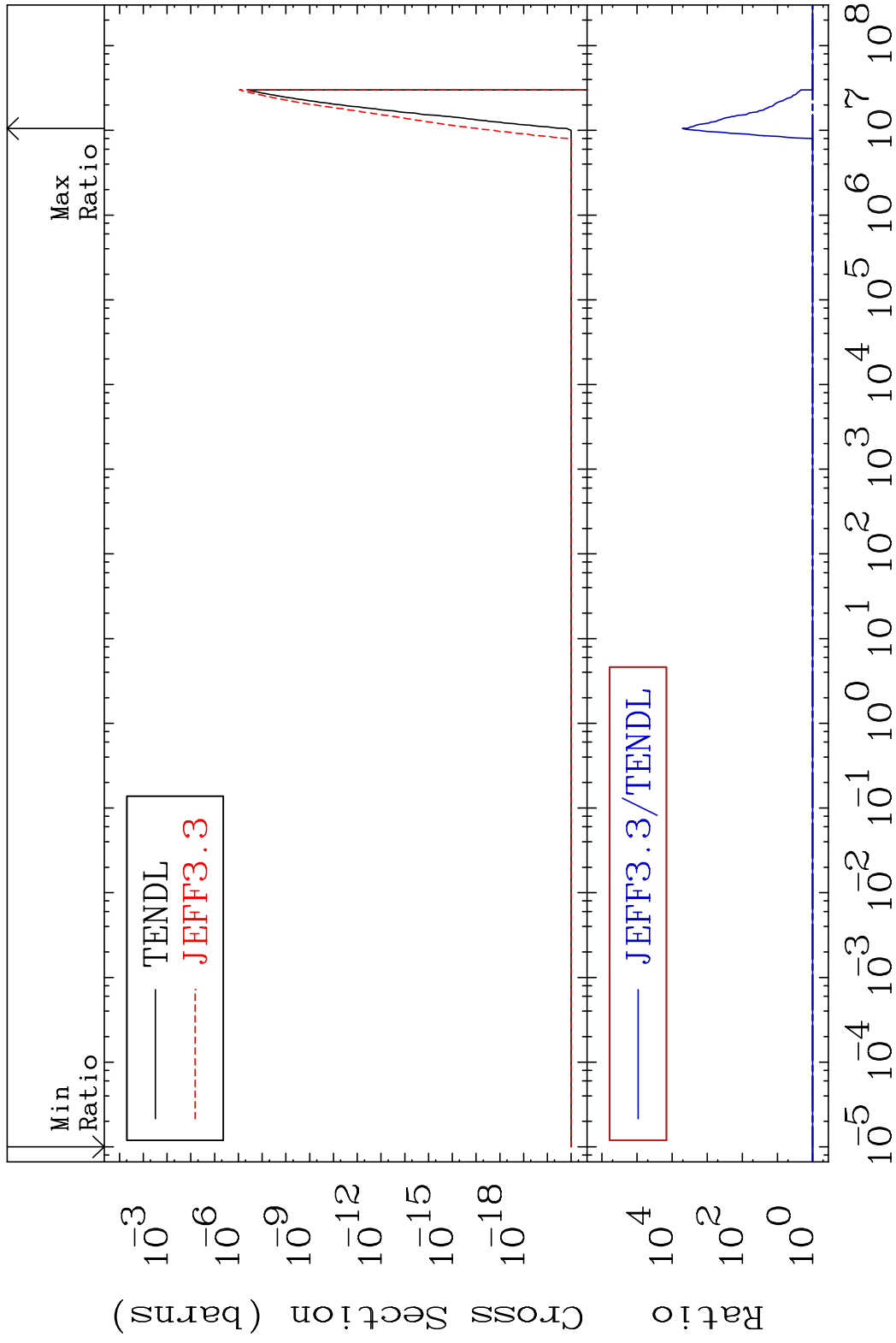
58-Ce-140

MAT 5837

(n, 2α)

58-Ce-140

Cross Section 0.000 To 9999. %



55

Incident Energy (eV)

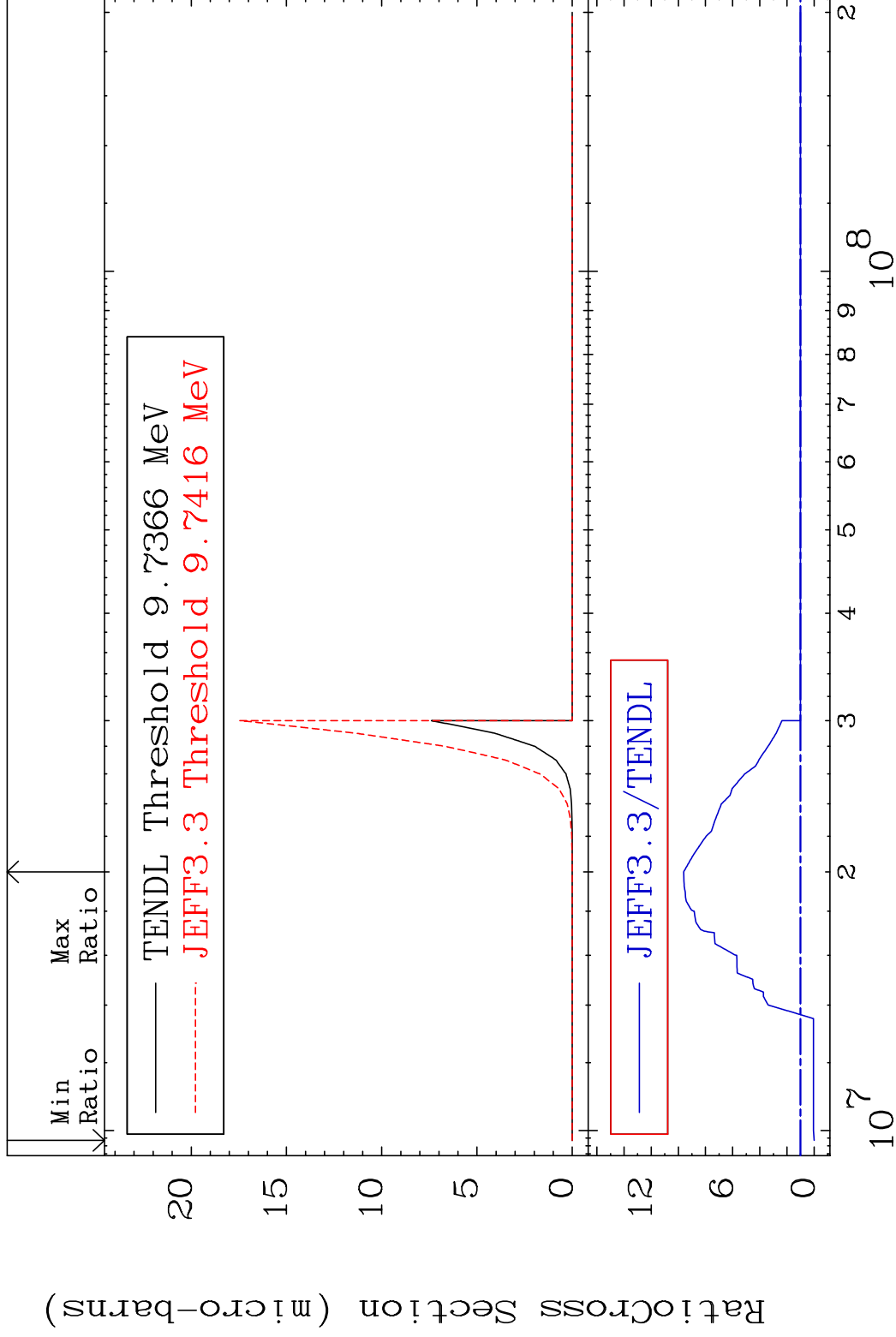
58-Ce-140

MAT 5837

(n,2p)

58-Ce-140

Cross Section -100.0 To 860.9 %



56

Incident Energy (eV)

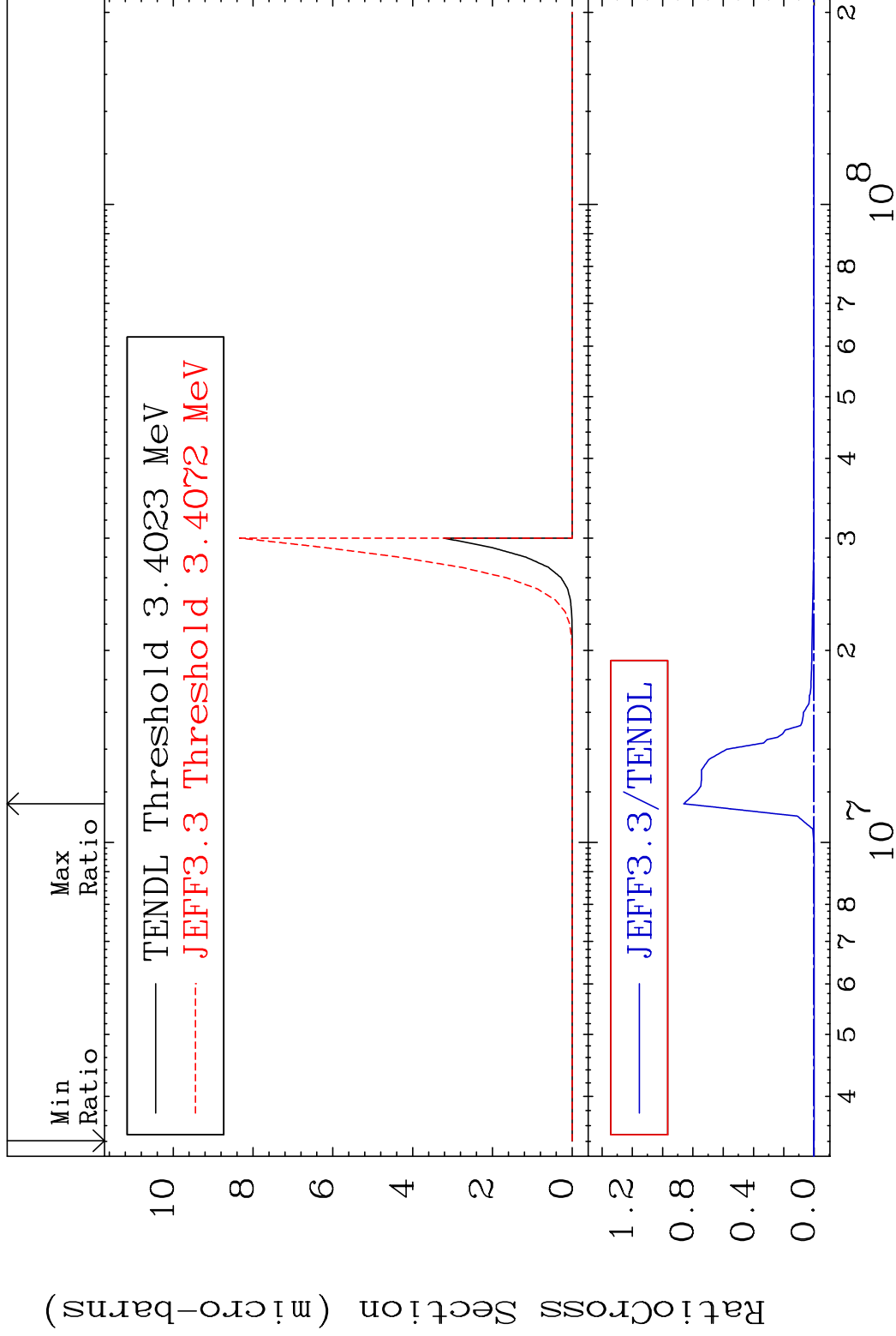
58-Ce-140

MAT 5837

(n,p) α

58-Ce-140

Cross Section -100.0 To 9999. %

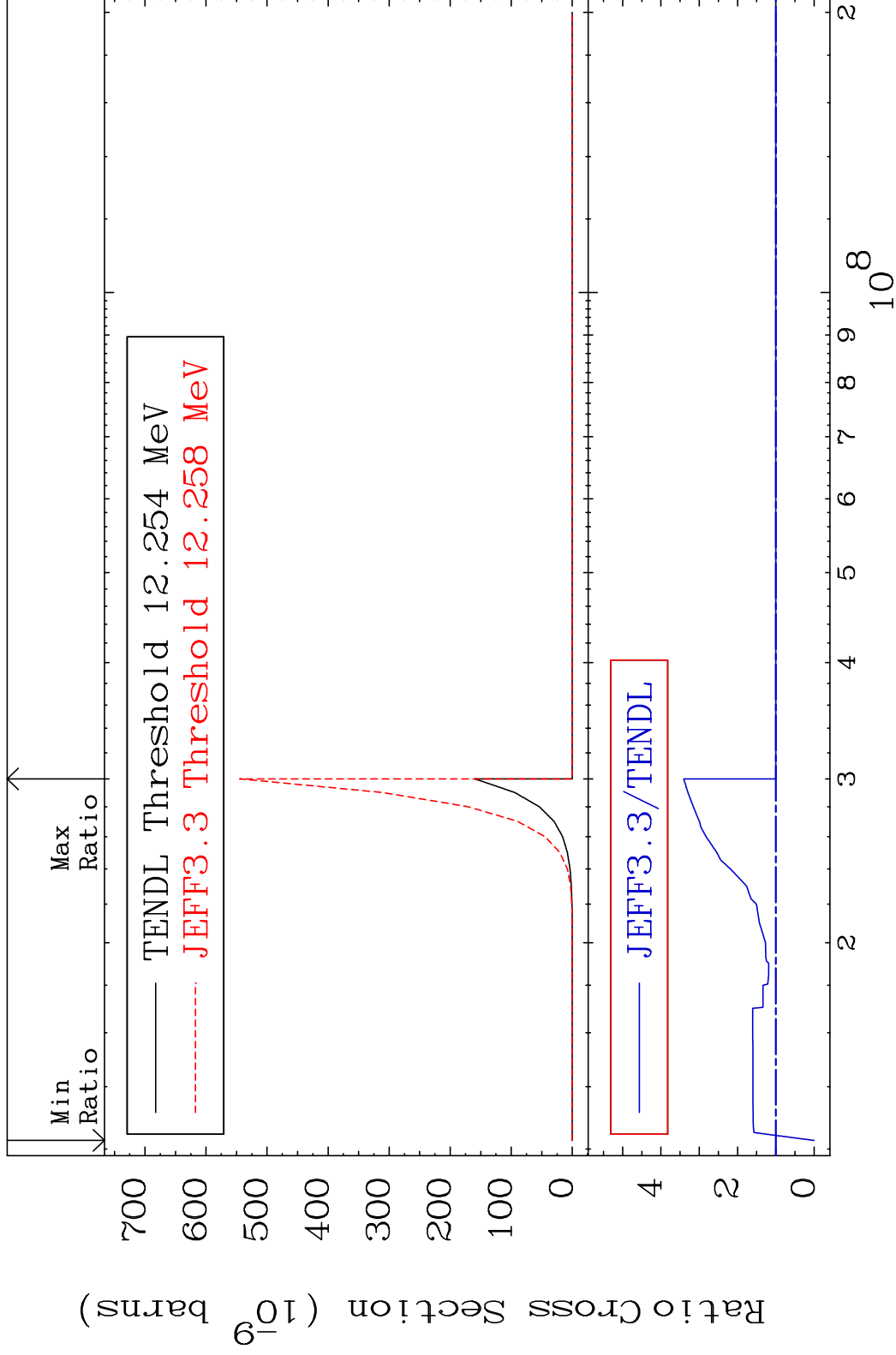


MAT 5837

(n,p) d

58-Ce-140

Cross Section -100.0 To 240.7 %



58

Incident Energy (eV)

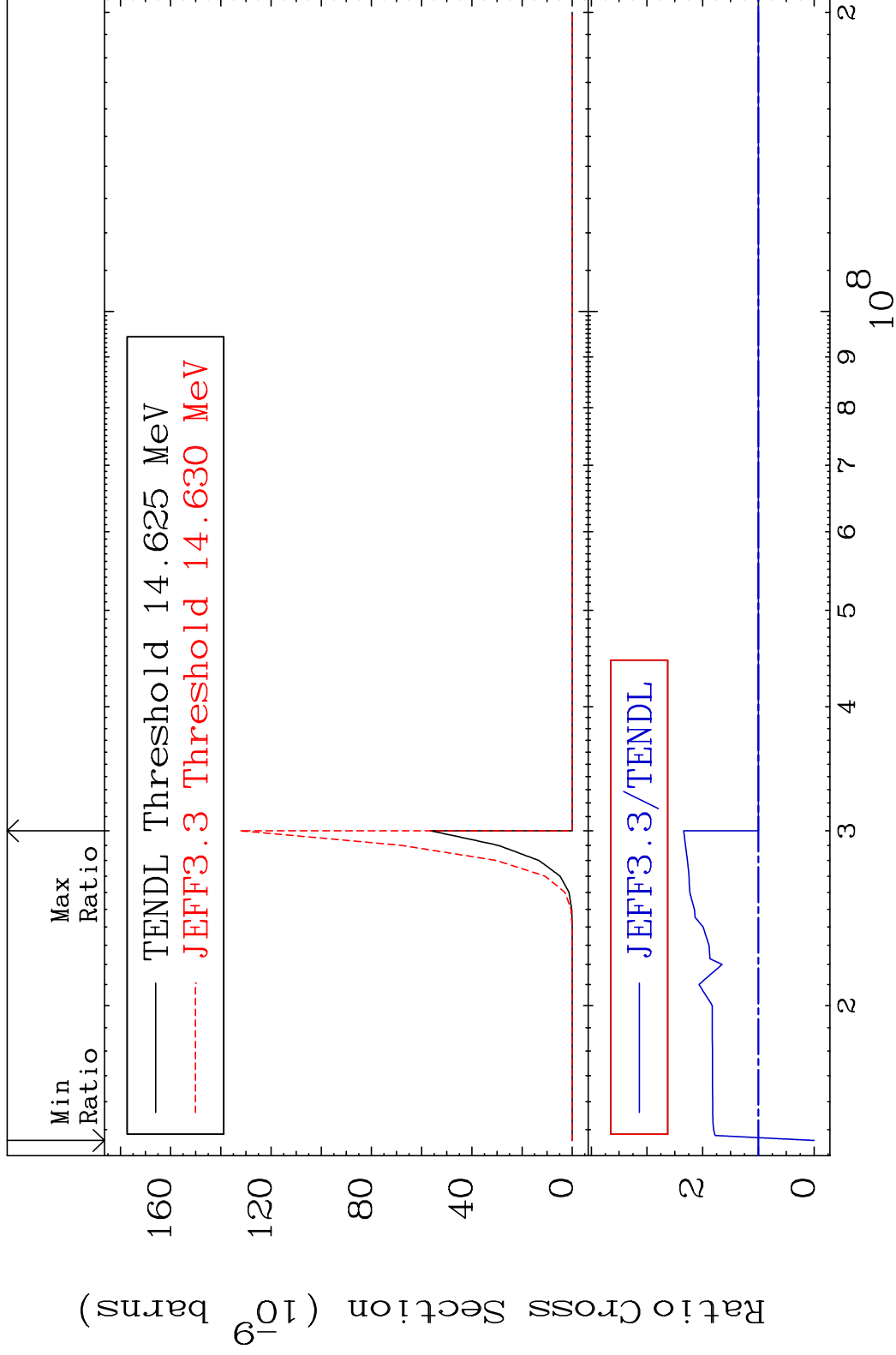
58-Ce-140

MAT 5837

(n,p) t

58-Ce-140

Cross Section -100.0 To 134.2 %



59

Incident Energy (eV)

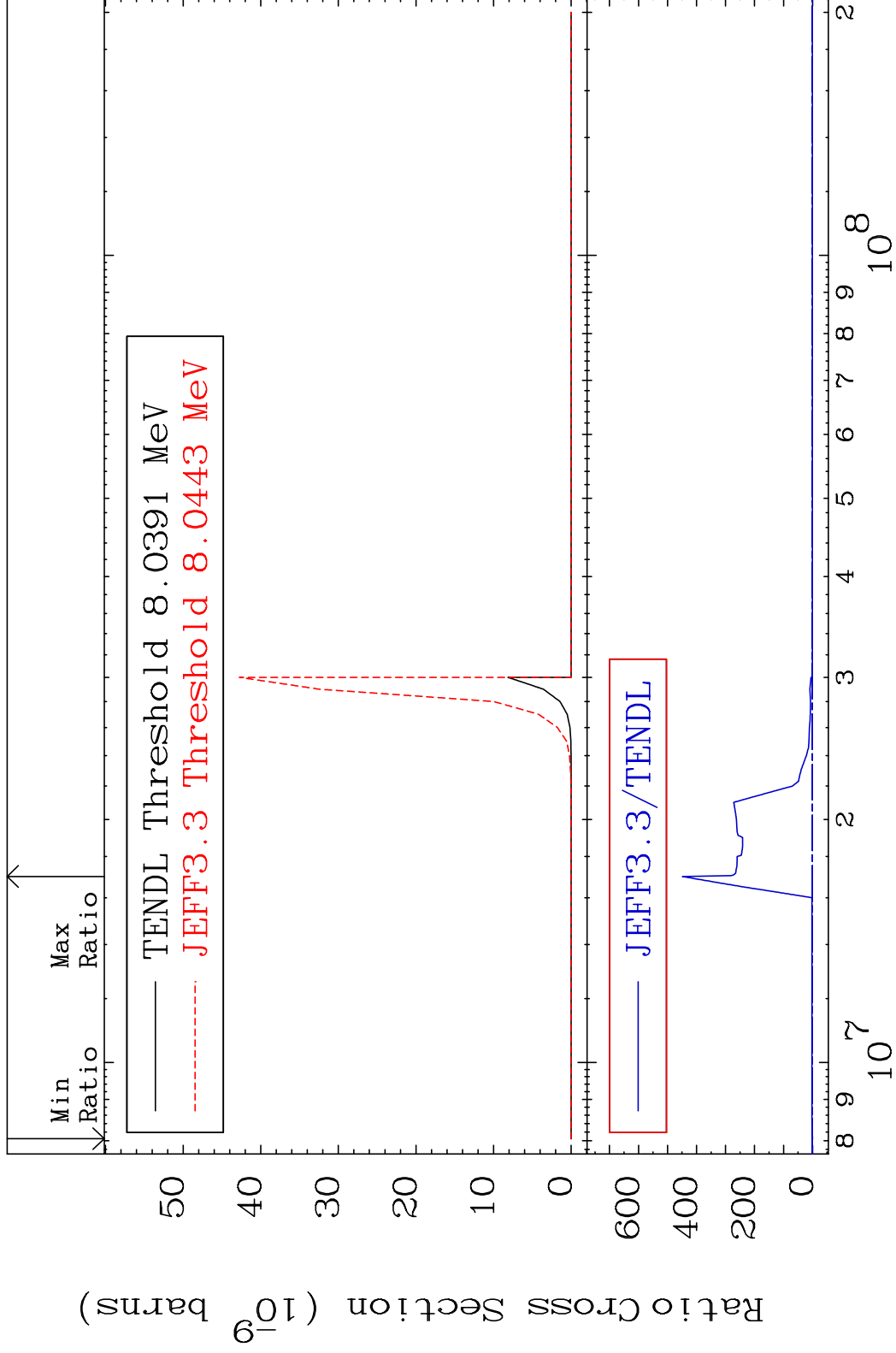
58-Ce-140

MAT 5837

(n,d) α

58-Ce-140

Cross Section -100.0 To 9999. %



60

Incident Energy (eV)

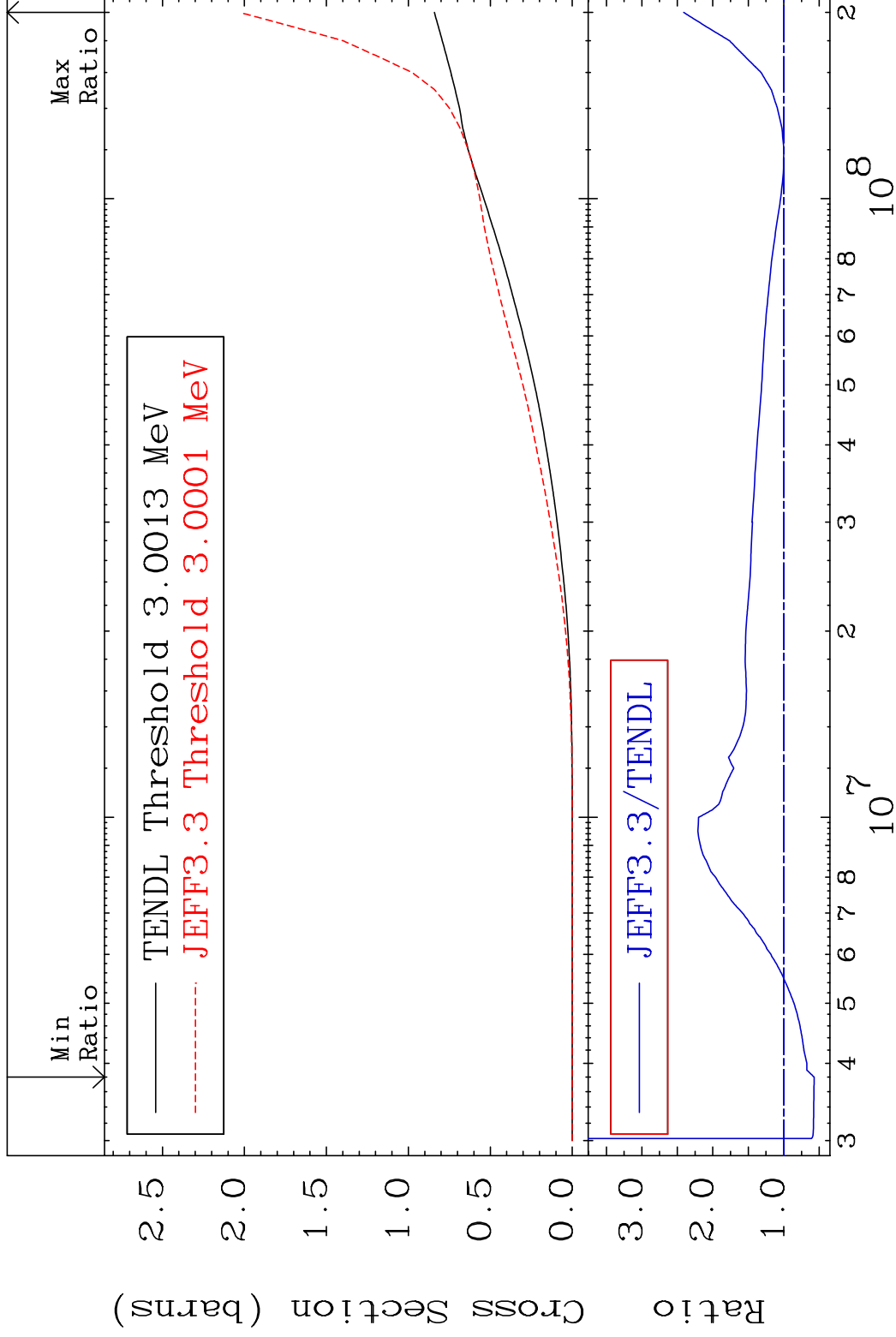
58-Ce-140

MAT 5837

Hydrogen Production

58-Ce-140

Cross Section -42.77 To 141.1 %



61

Incident Energy (eV)

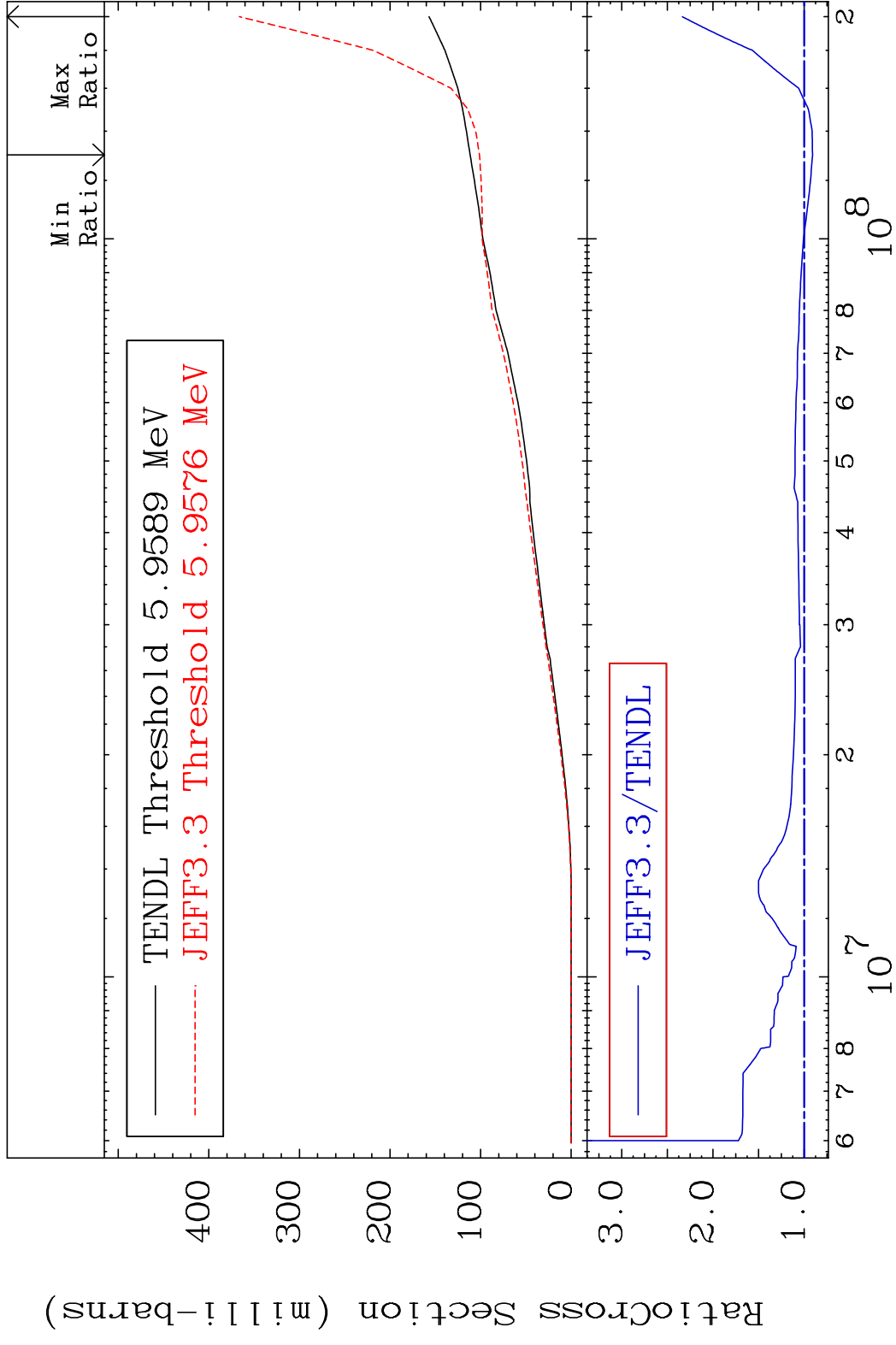
58-Ce-140

MAT 5837

Deuterium Production

58-Ce-140

Cross Section -9.269 To 133.5 %



62

Incident Energy (eV)

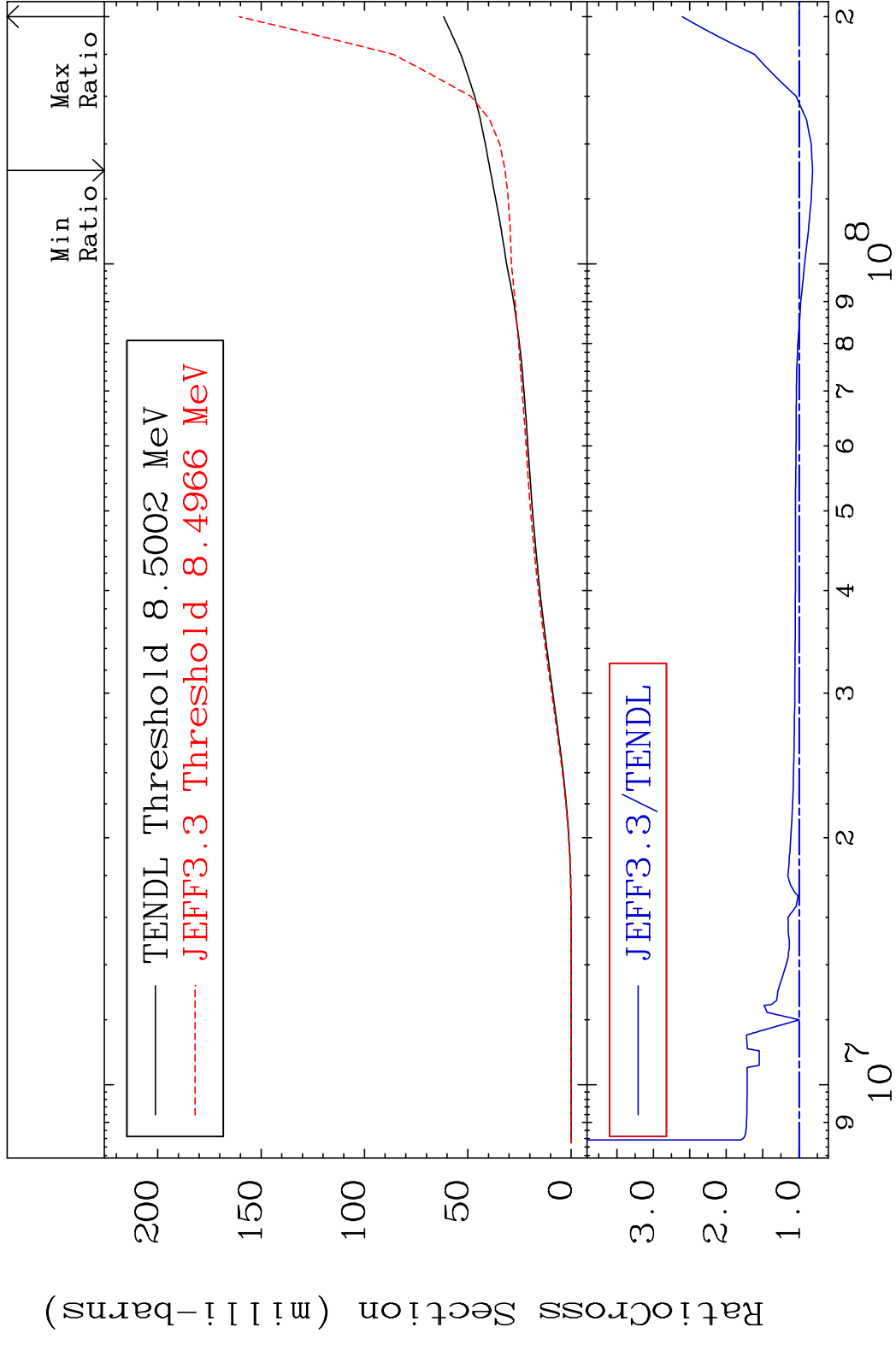
58-Ce-140

MAT 5837

Tritium Production

58-Ce-140

Cross Section -18.45 To 160.2 %



63

Incident Energy (eV)

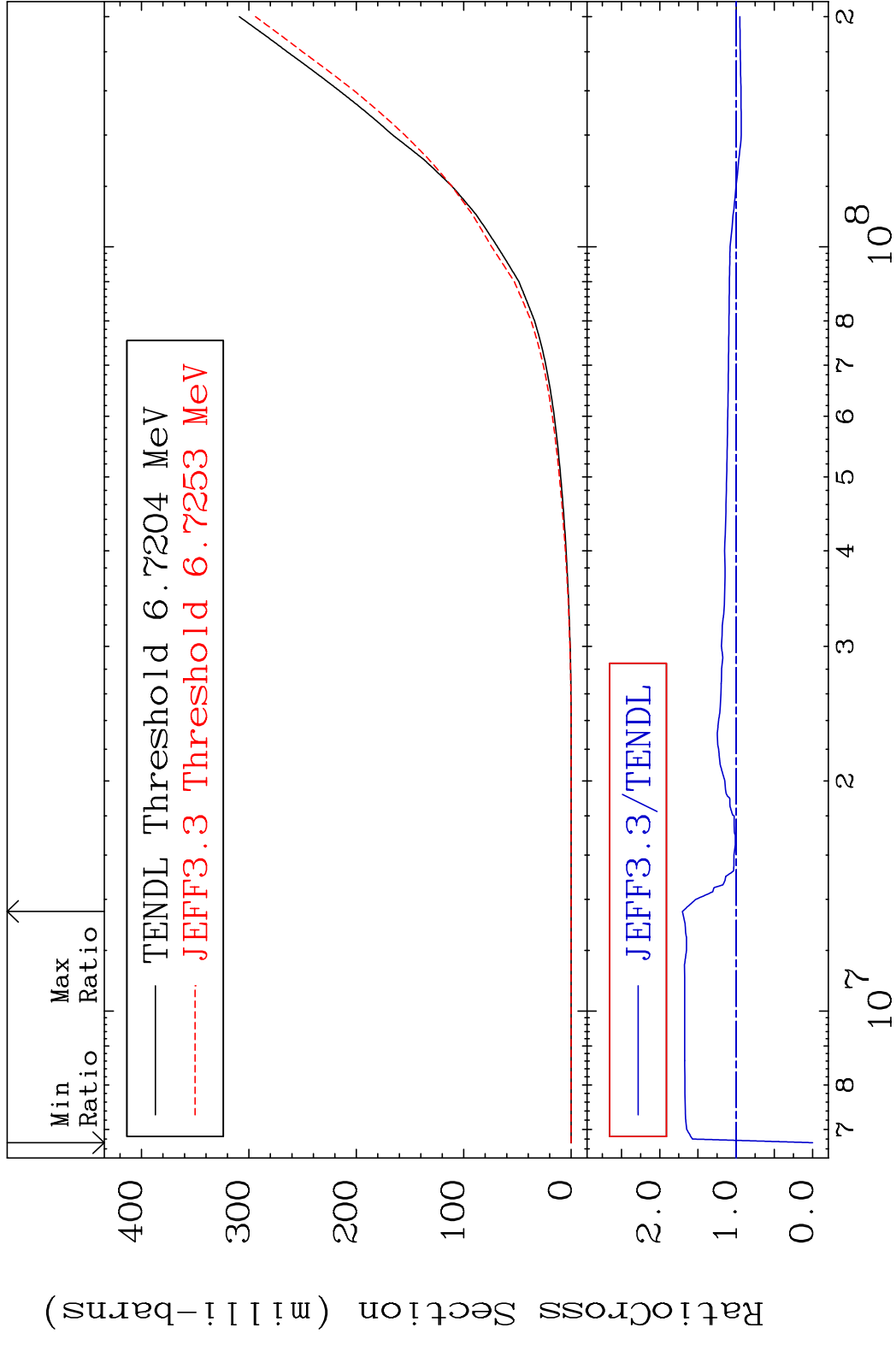
58-Ce-140

MAT 5837

He-3 Production

58-Ce-140

Cross Section -100.0 To 70.37 %

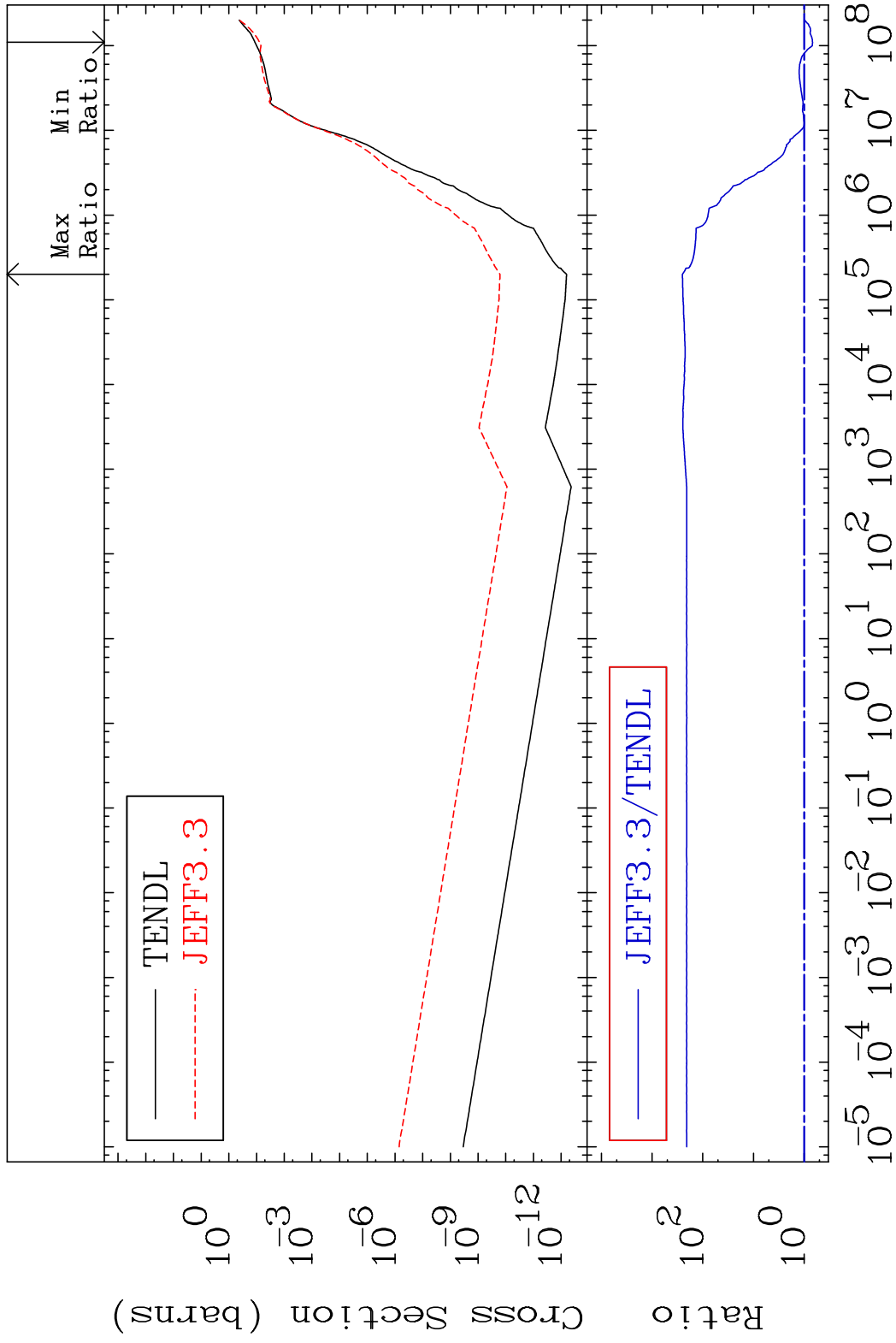


MAT 5837

He-4 Production

58-Ce-140

Cross Section -31.80 To 9999. %

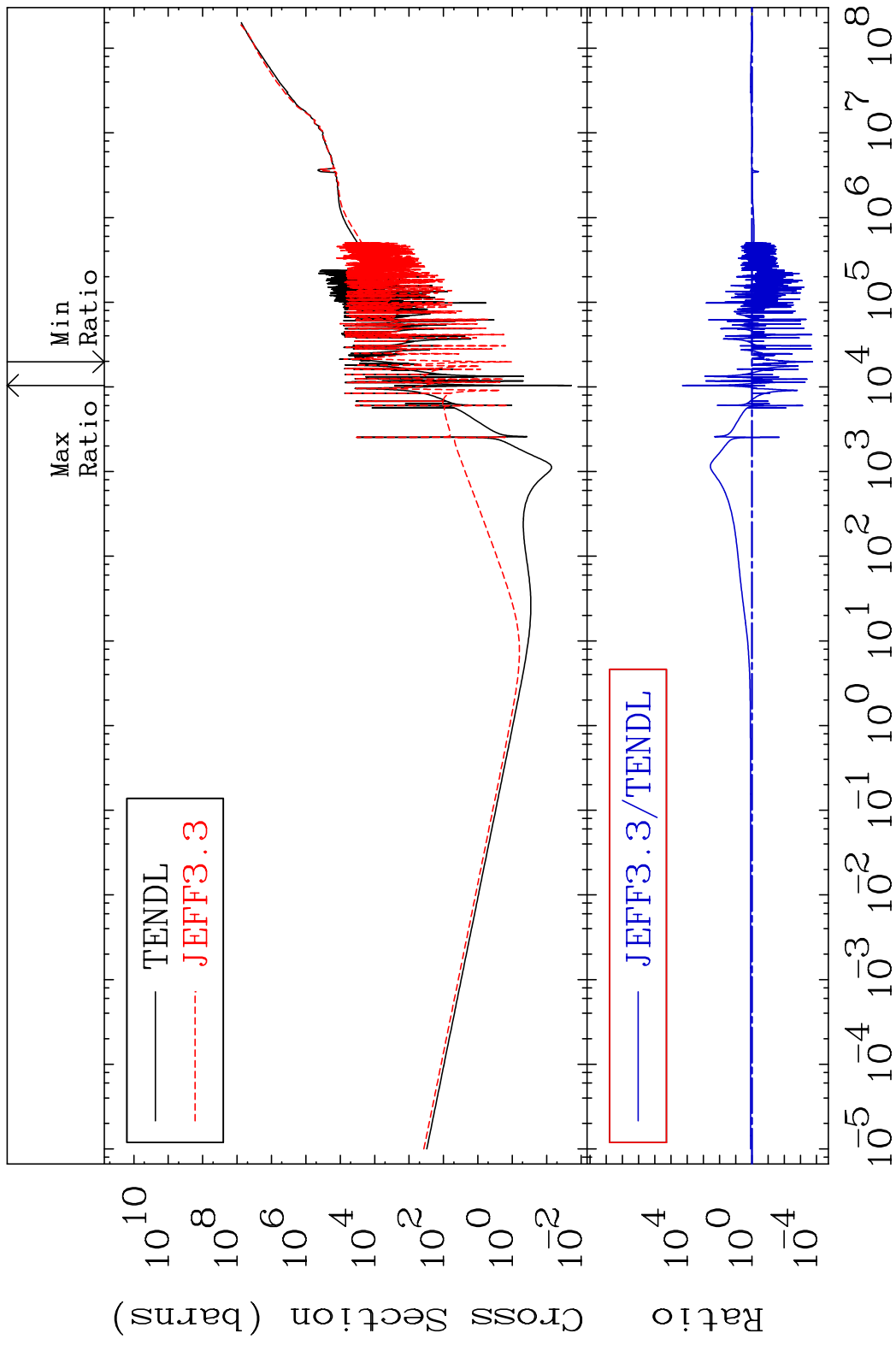


65

Incident Energy (eV)

58-Ce-140

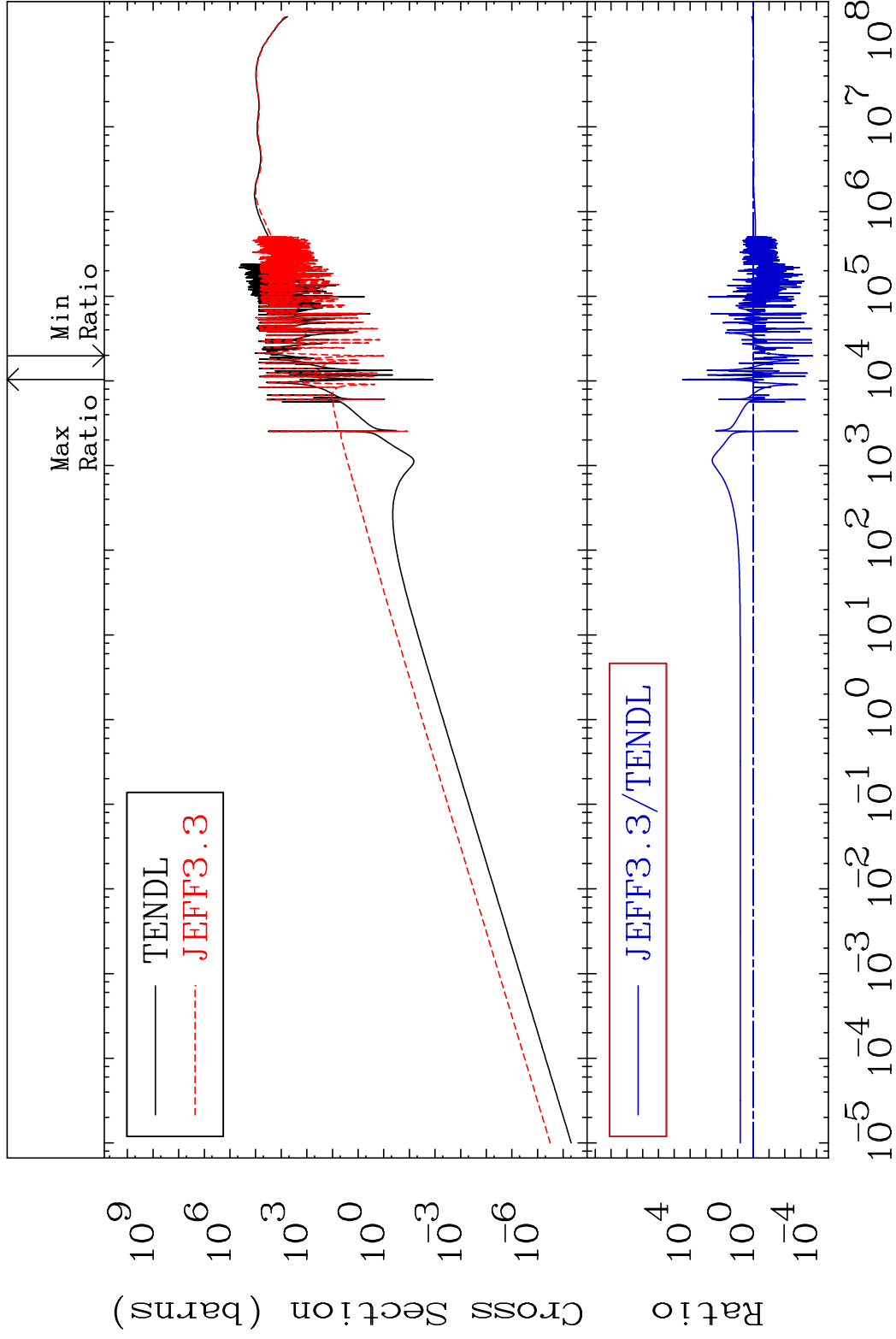
MAT 5837 Kerma total (eV-barns) 58-Ce-140
 Cross Section -99.98 To 9999. %



MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-99.98 To 9999. %

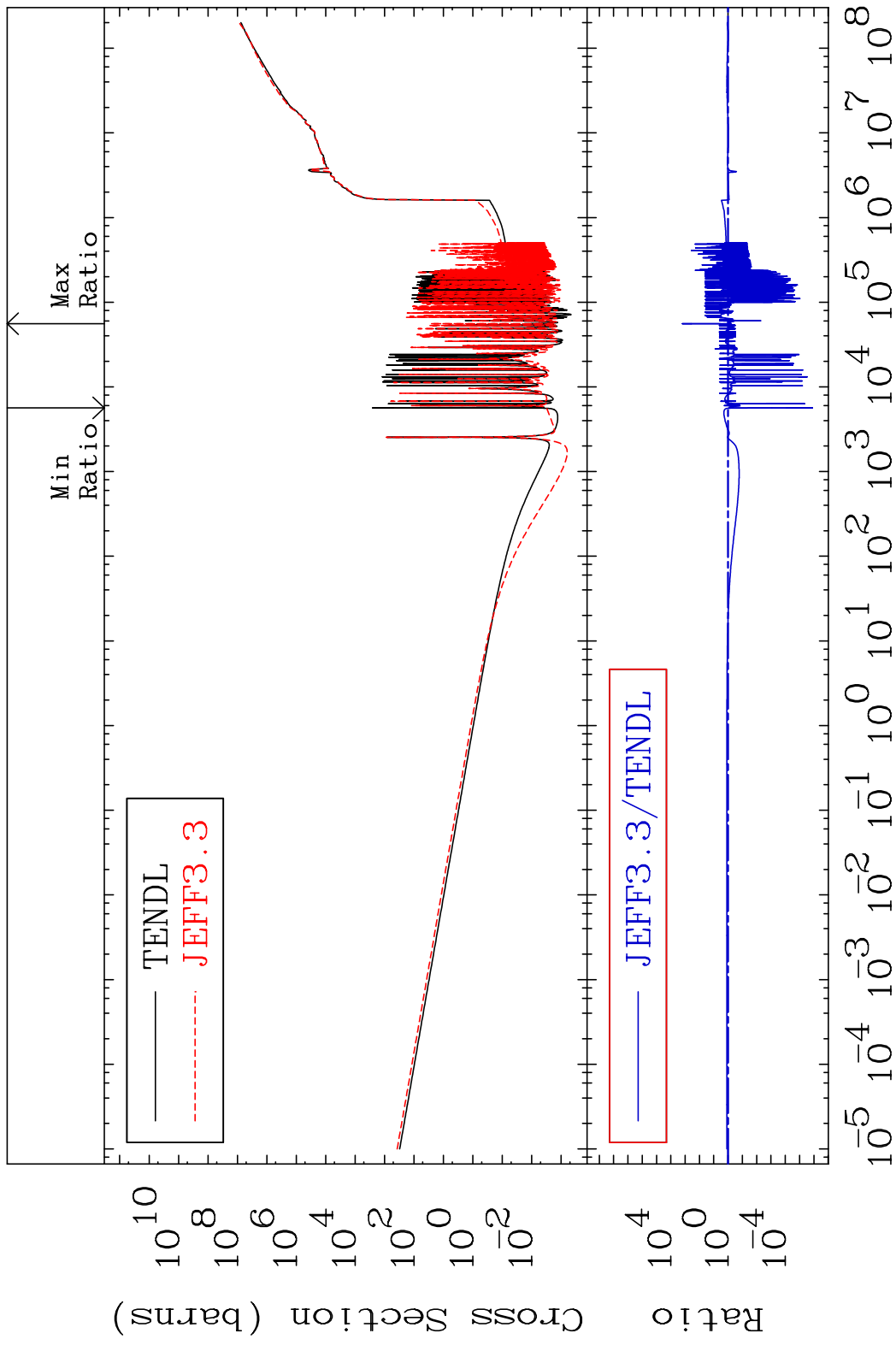


67

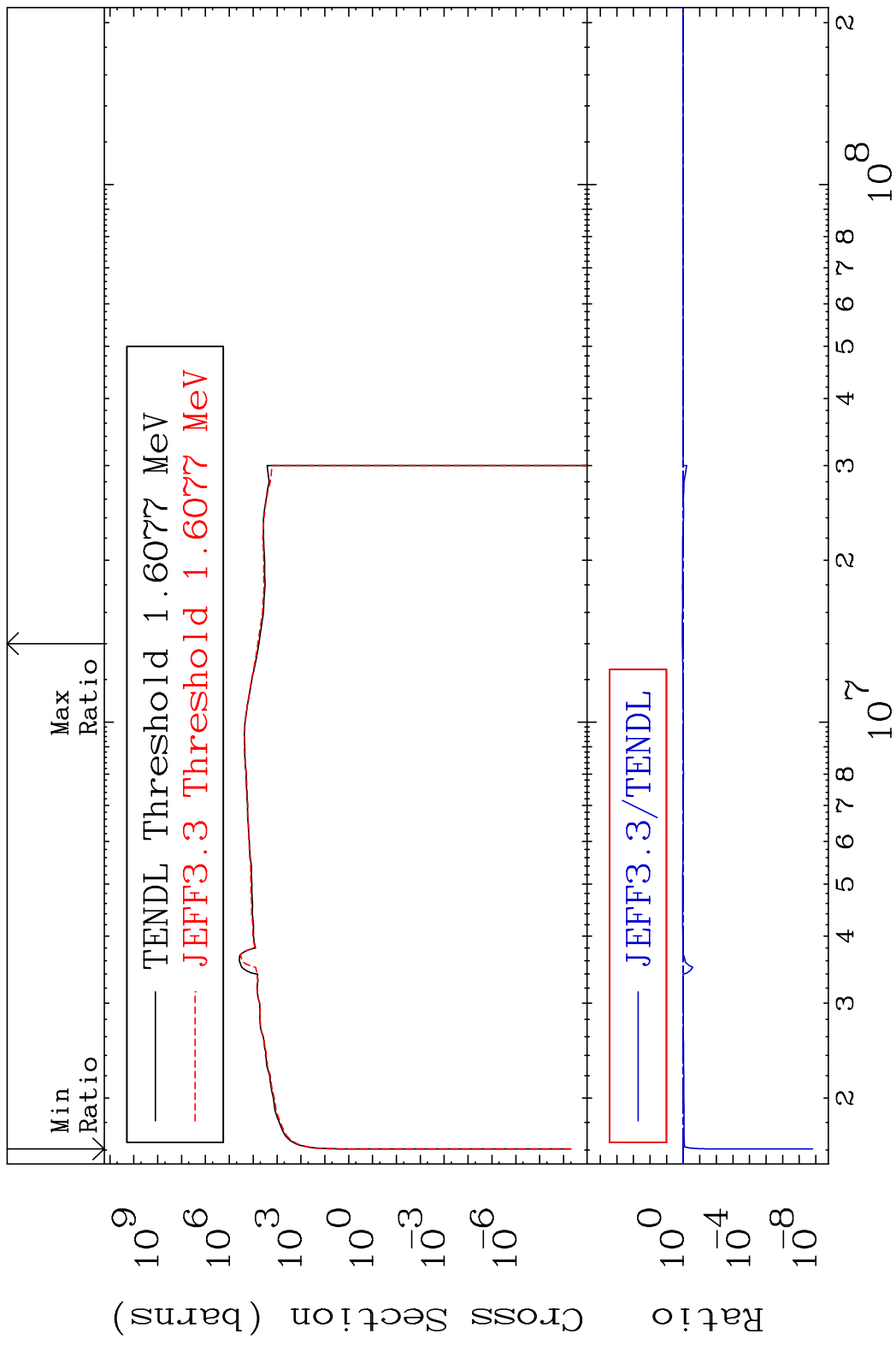
Incident Energy (eV)

58-Ce-140

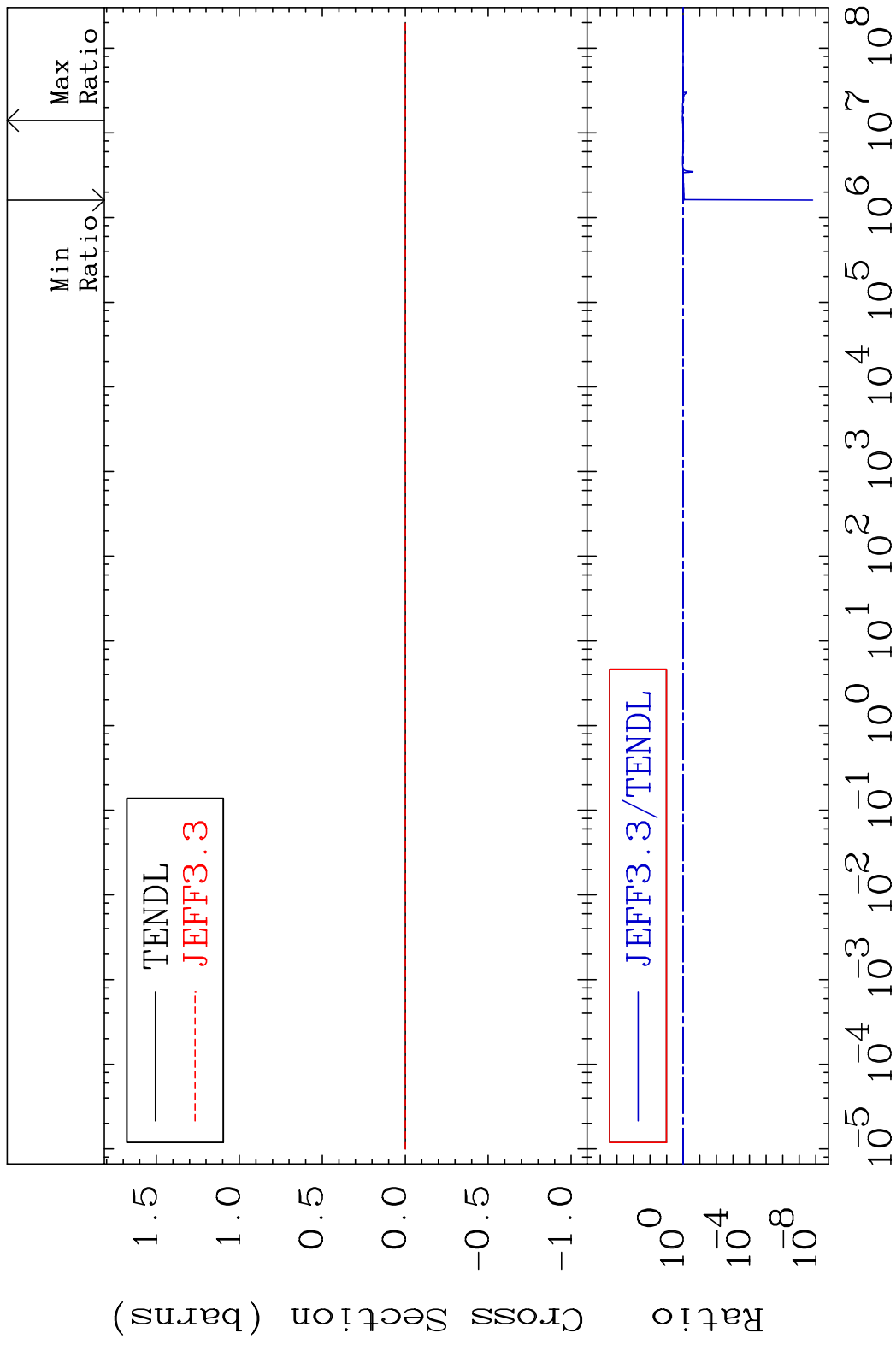
MAT 5837 Kerma non-elastic (all but mt2) 58-Ce-140
 Cross Section -100.0 To 9999. %



MAT 5837 Kerma inelastic (mt51-91) 58-Ce-140
 Cross Section -100.0 To 12.21 %



MAT 5837 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-140
 Cross Section -100.0 To 12.21 %



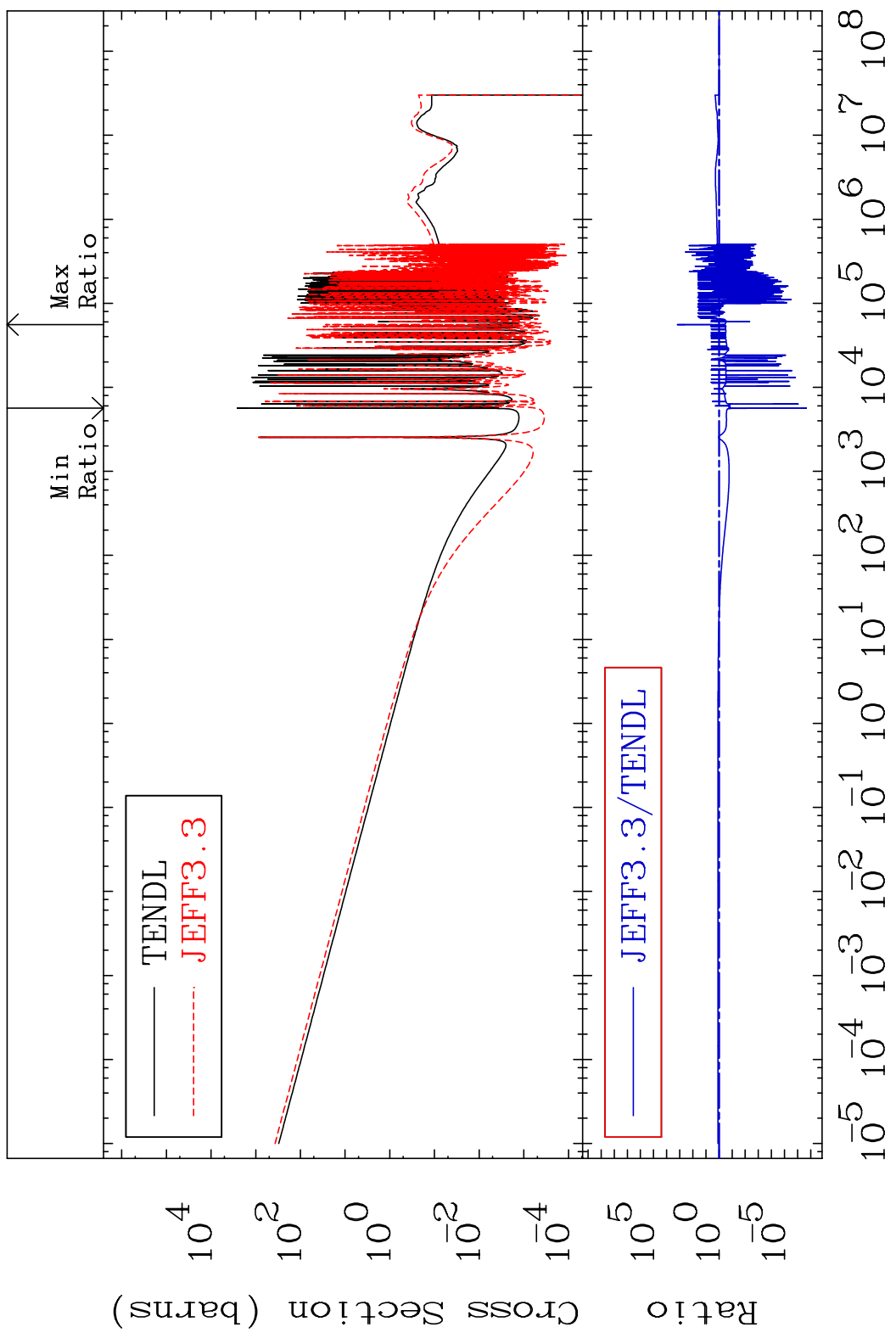
70

Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma capture (mt102) 58-Ce-140
Cross Section -100.0 To 9999. %



71

Incident Energy (eV)

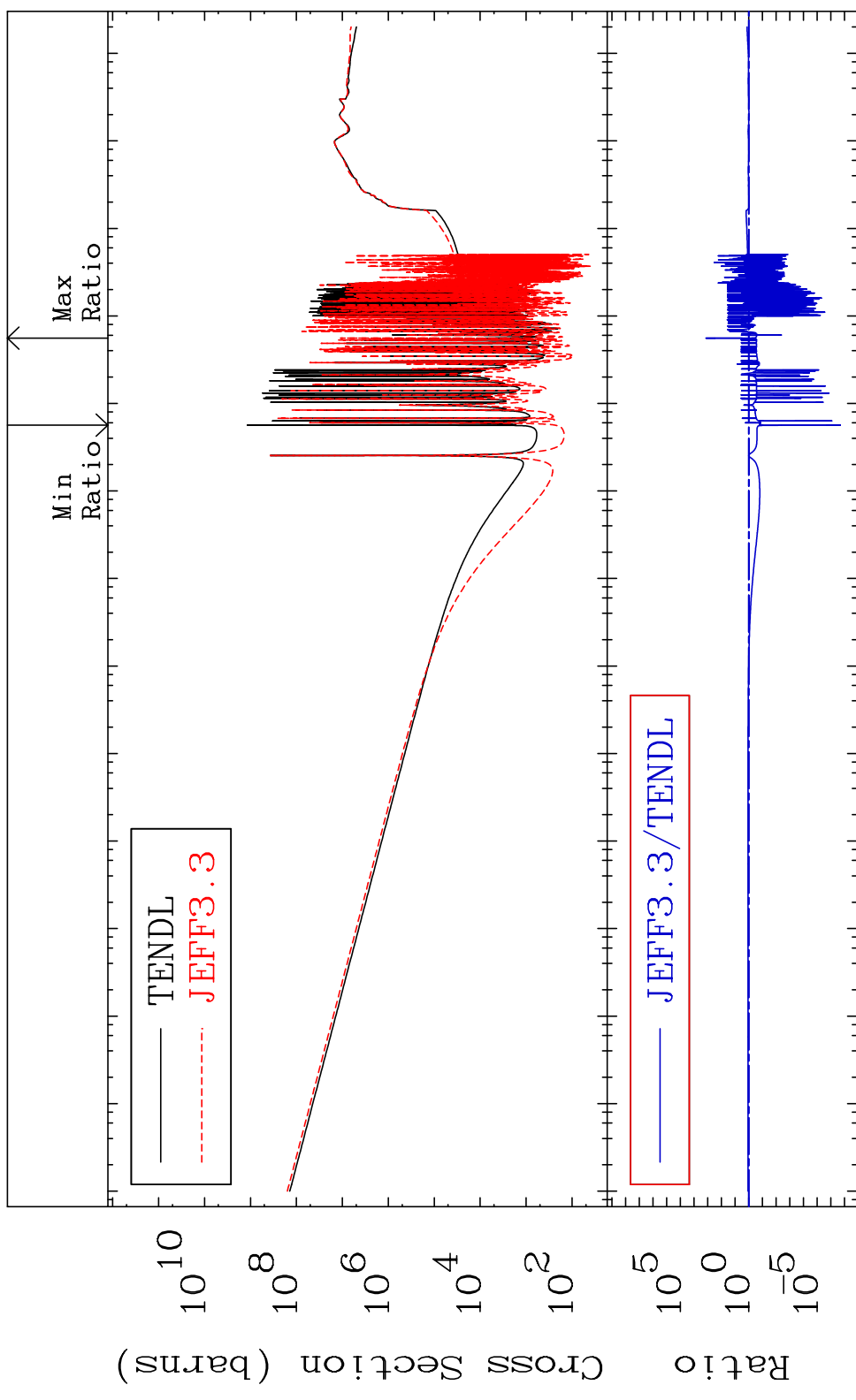
58-Ce-140

MAT 5837

Total photon (eV-barns)

58-Ce-140

Cross Section -100.0 To 9999. %

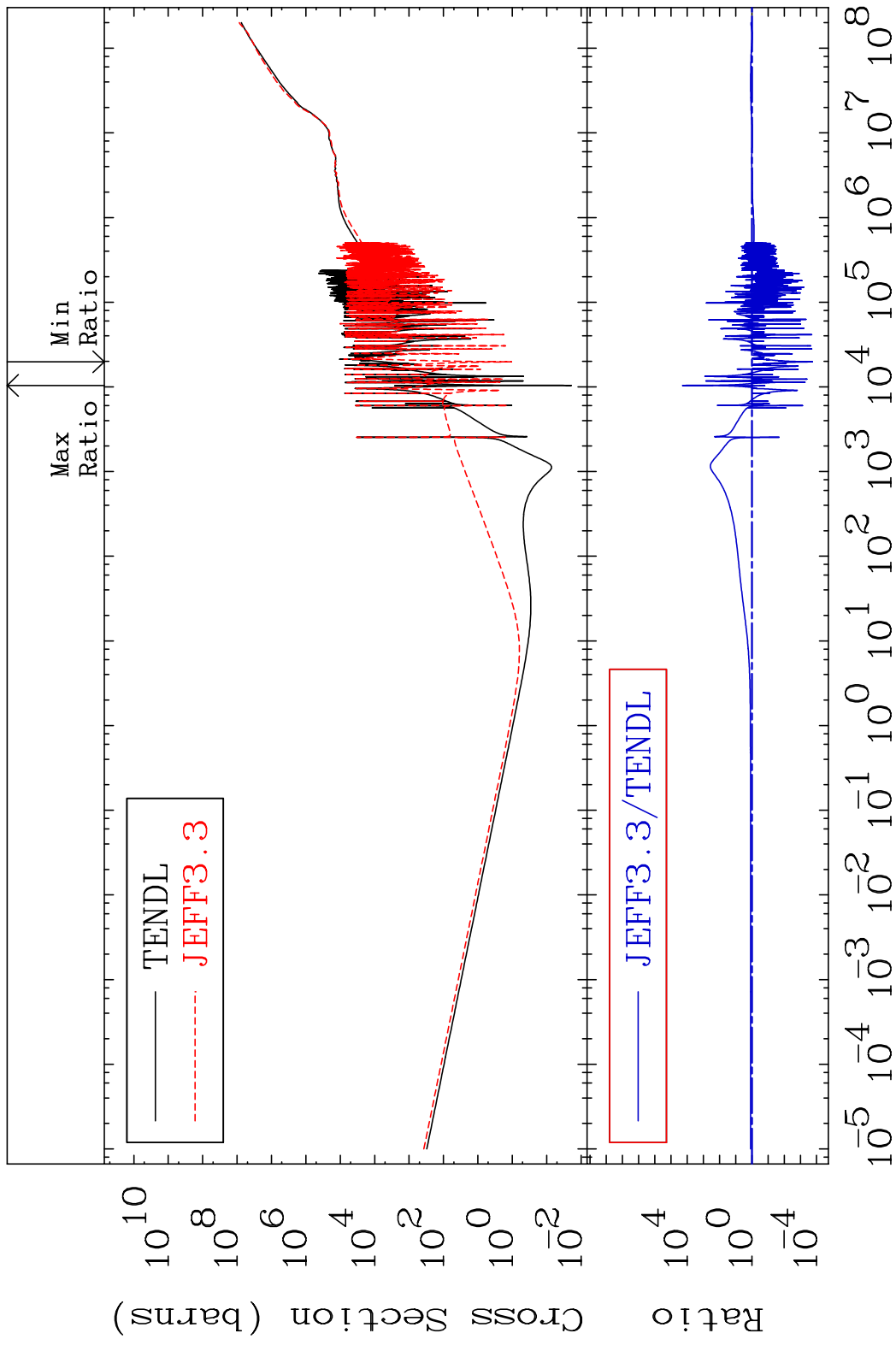


72

Incident Energy (eV)

58-Ce-140

MAT 5837 Total kinematic kerma (high limit) 58-Ce-140
 Cross Section -99.98 To 9999. %

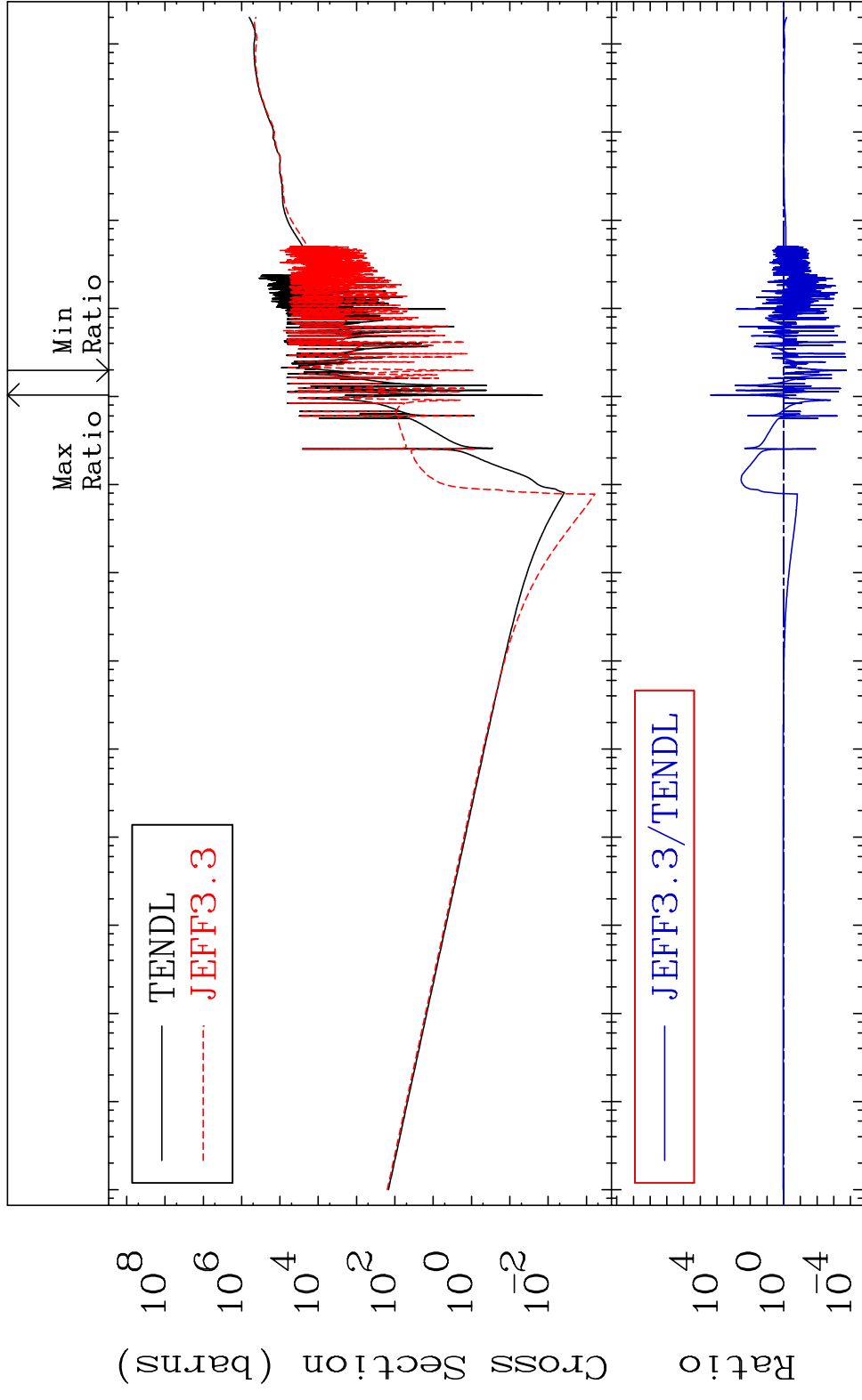


MAT 5837

Dpa total (eV-barns)

58-Ce-140

Cross Section -99.98 To 9999. %



74

Incident Energy (eV)

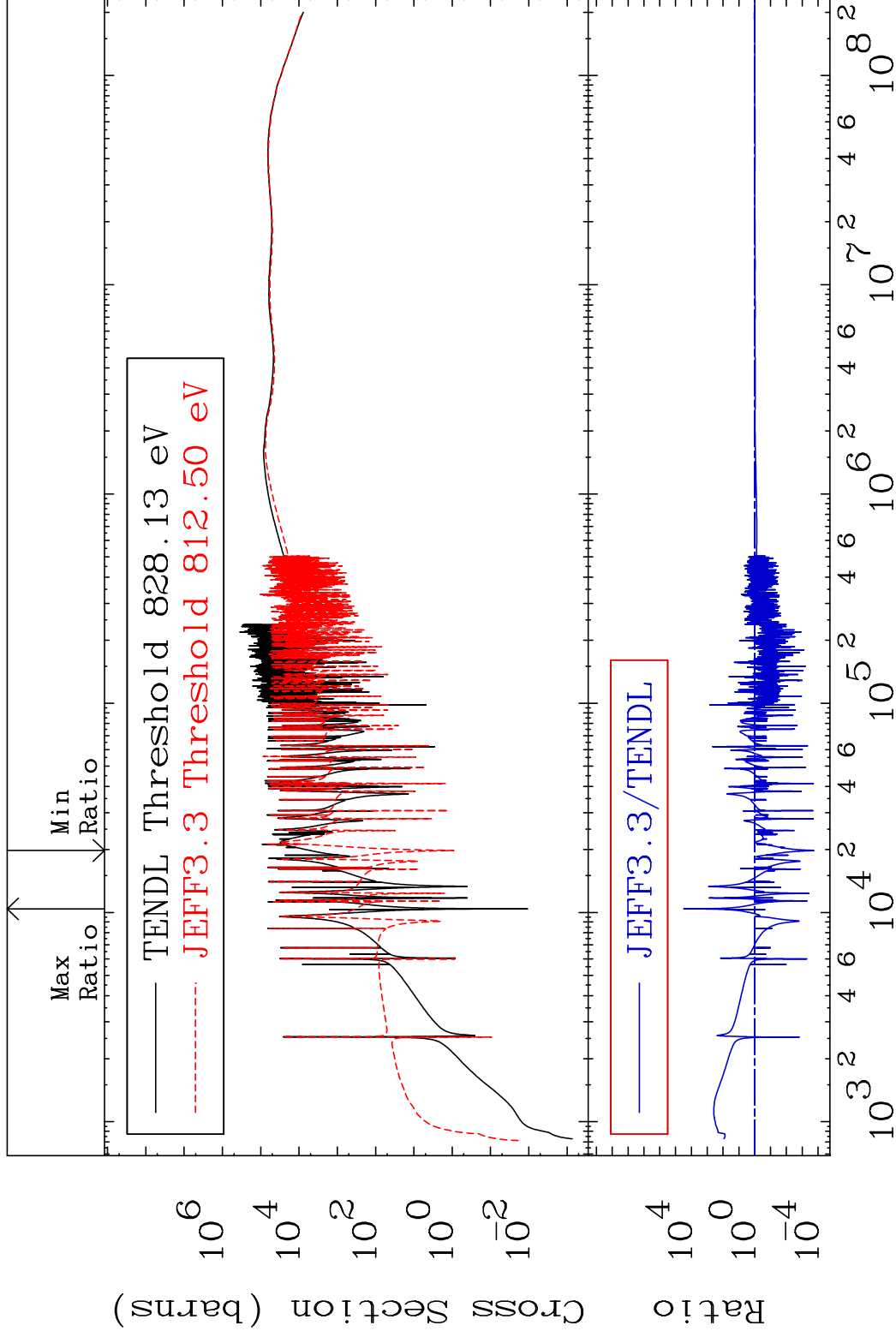
58-Ce-140

MAT 5837

Dpa elastic (mt2)

58-Ce-140

Cross Section -99.98 To 9999. %

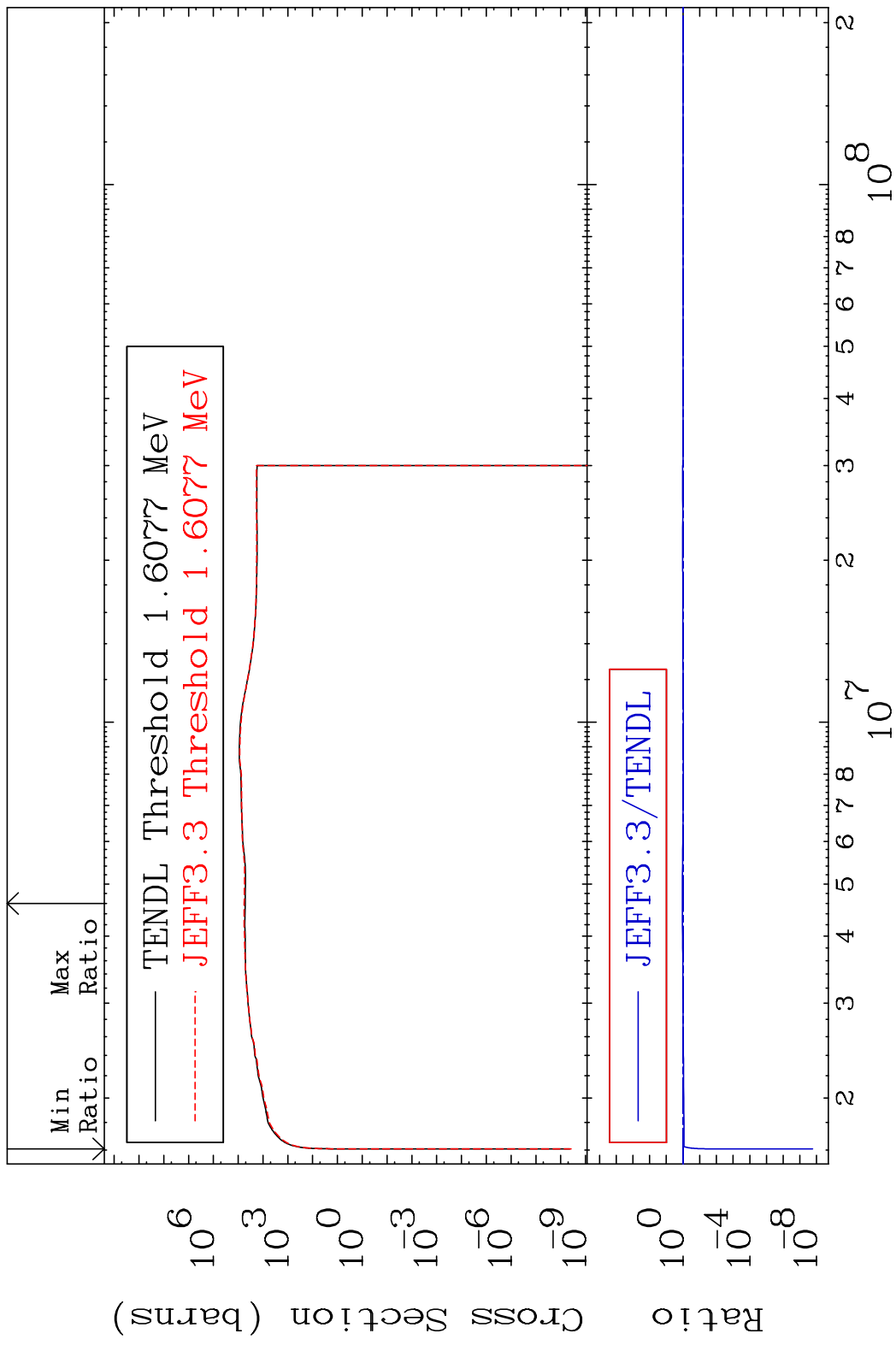


75

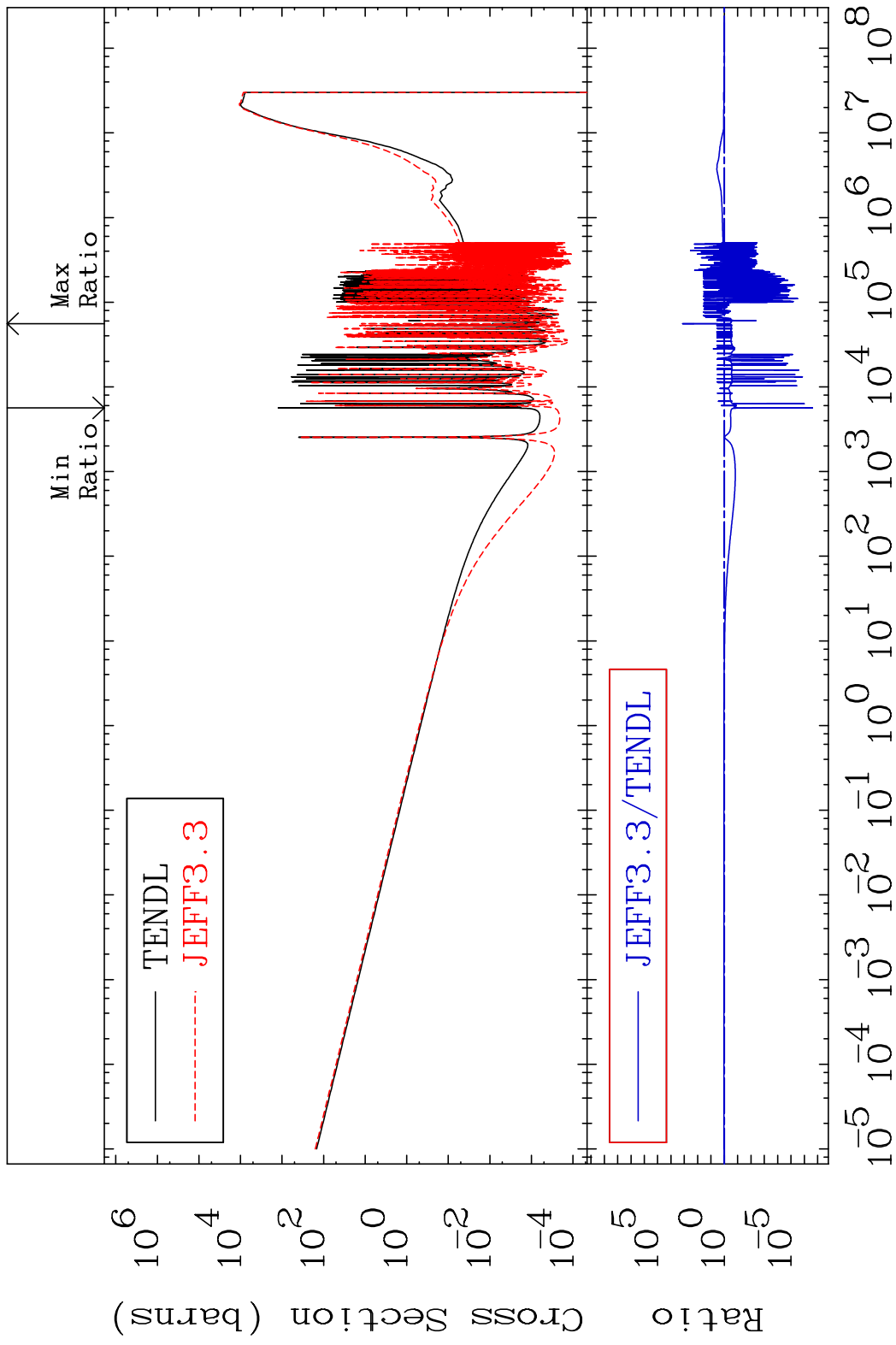
Incident Energy (eV)

58-Ce-140

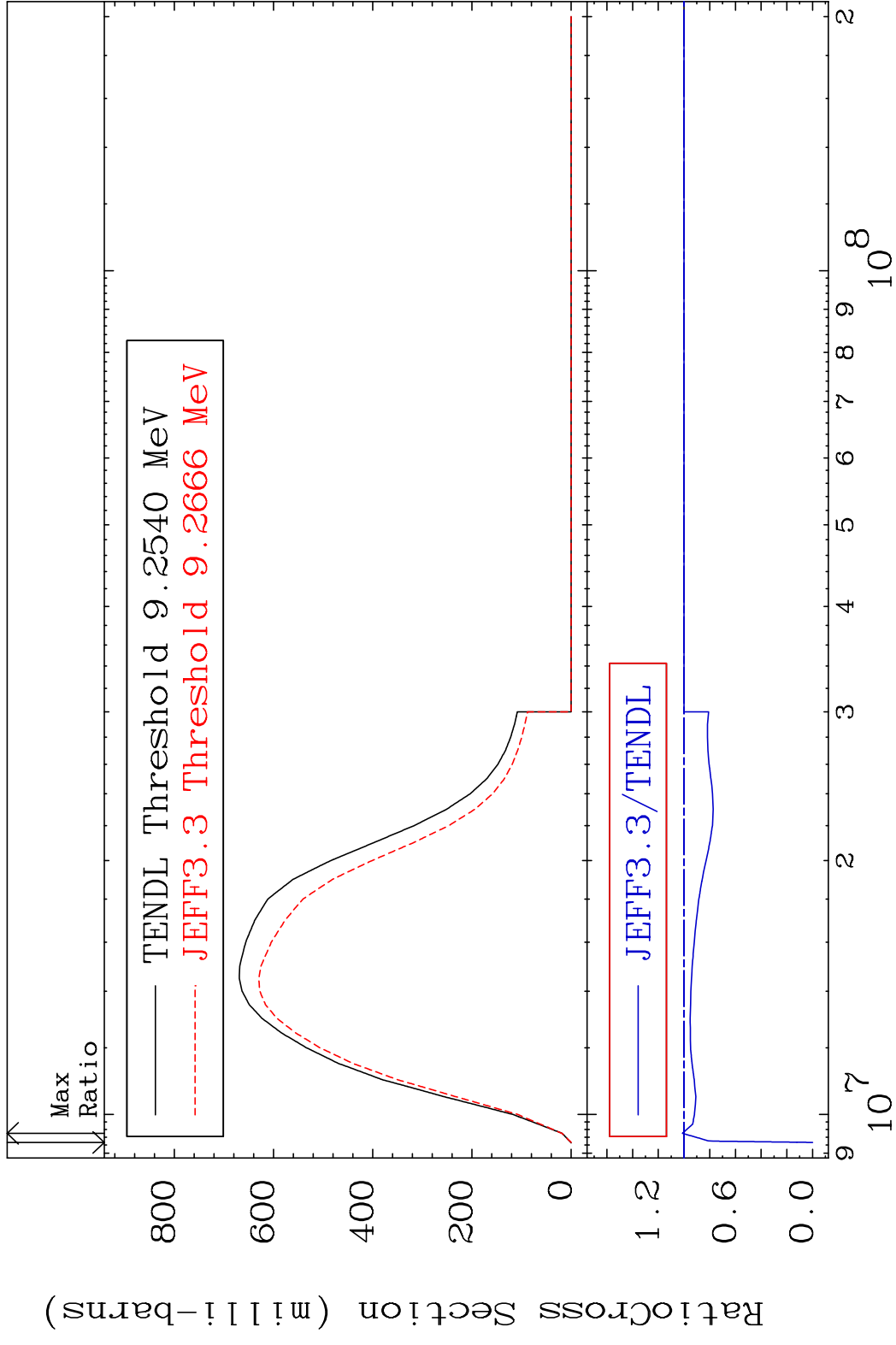
MAT 5837 Dpa inelastic (mt51-91) 58-Ce-140
 Cross Section -100.0 To 9.322 %



MAT 5837 Dpa disappearance (mt102 -120) 58-Ce-140
 Cross Section -100.0 To 9999. %

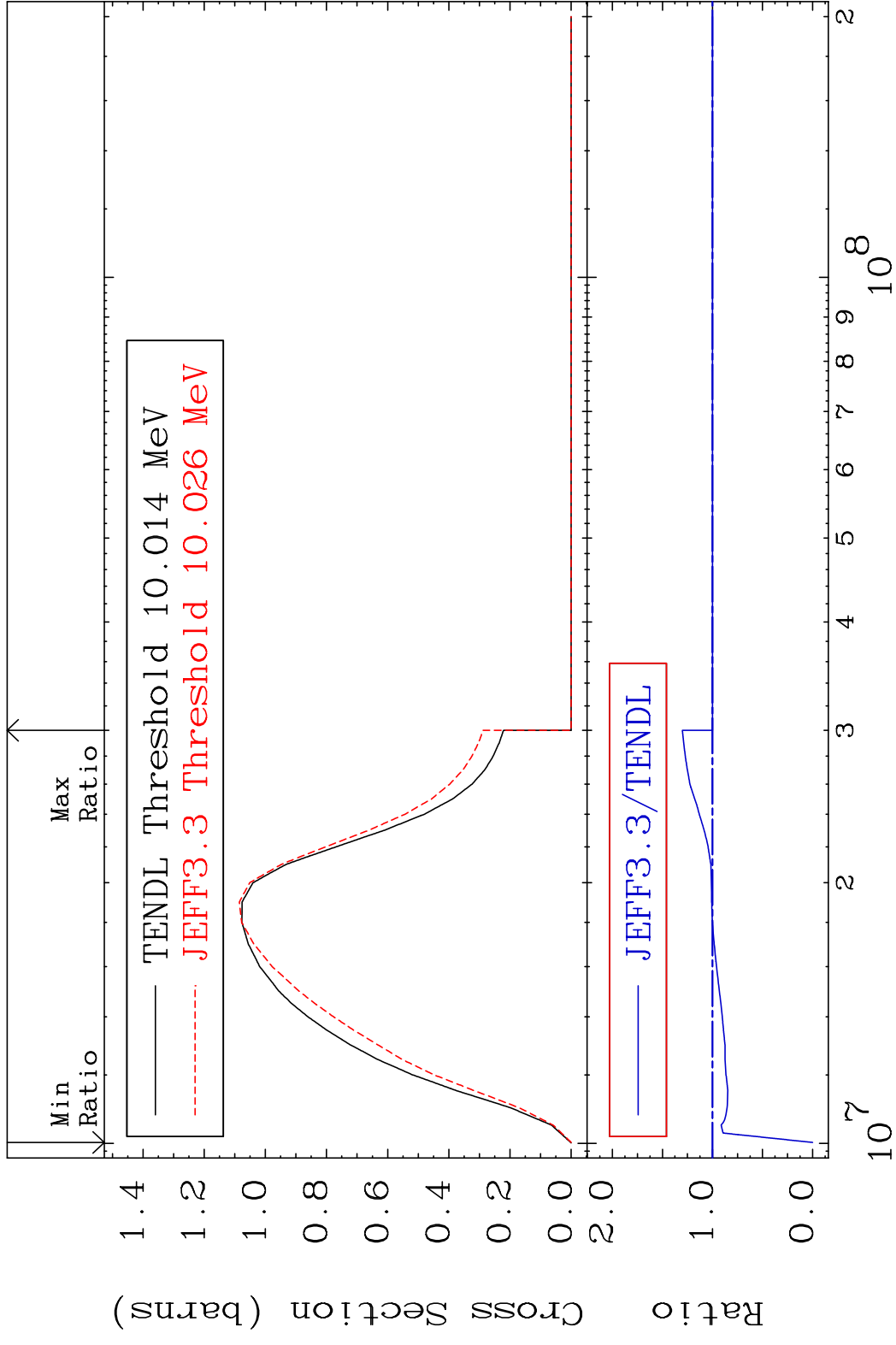


MAT 5837 (n,2n):58-Ce-139g 58-Ce-140
 Radionuclide Production Cross Section 1.288 %



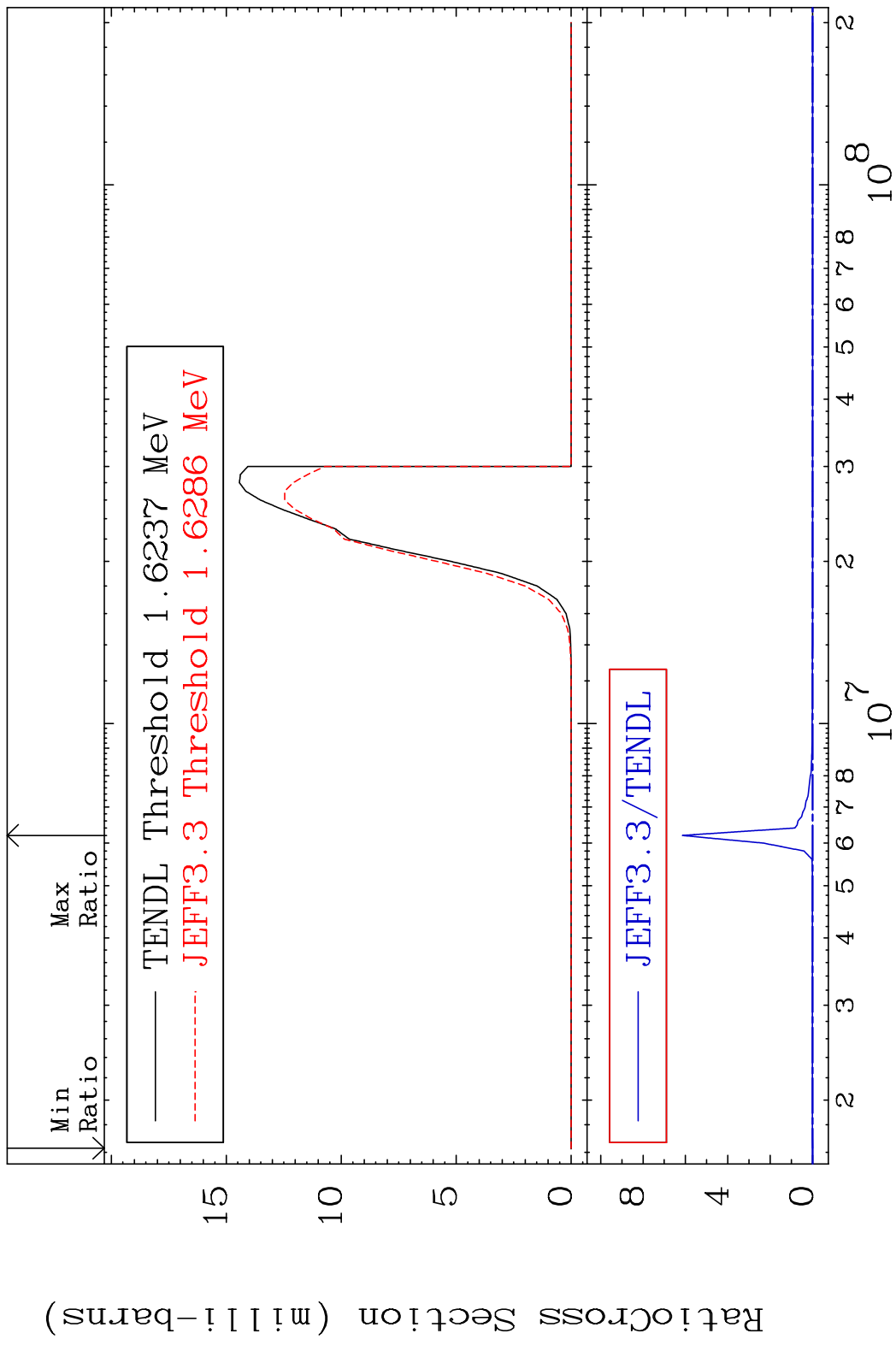
78 Incident Energy (eV) 58-Ce-140

MAT 5837 (n,2n):58-Ce-139m2 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 30.11 %

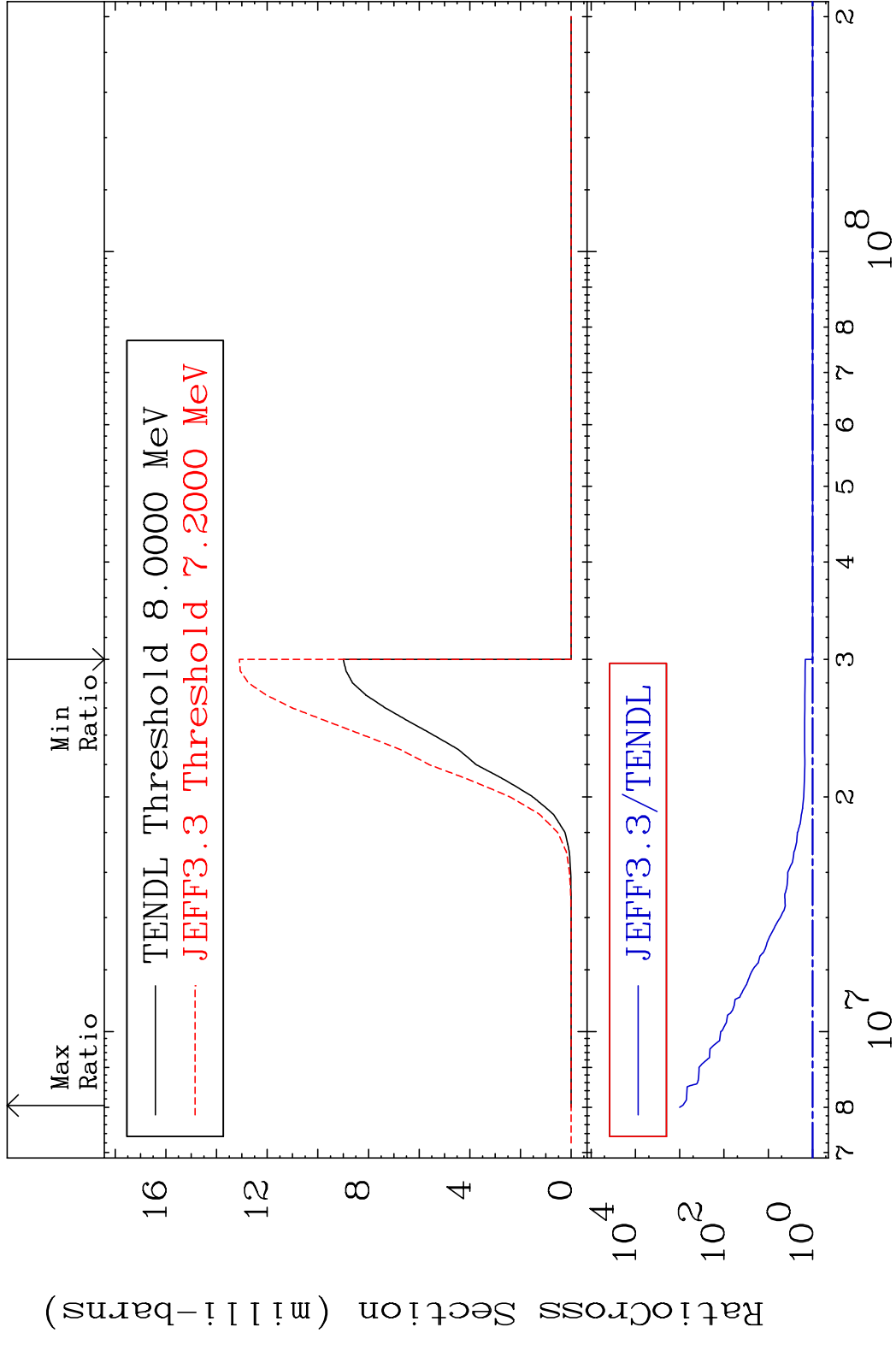


79 Incident Energy (eV) 58-Ce-140

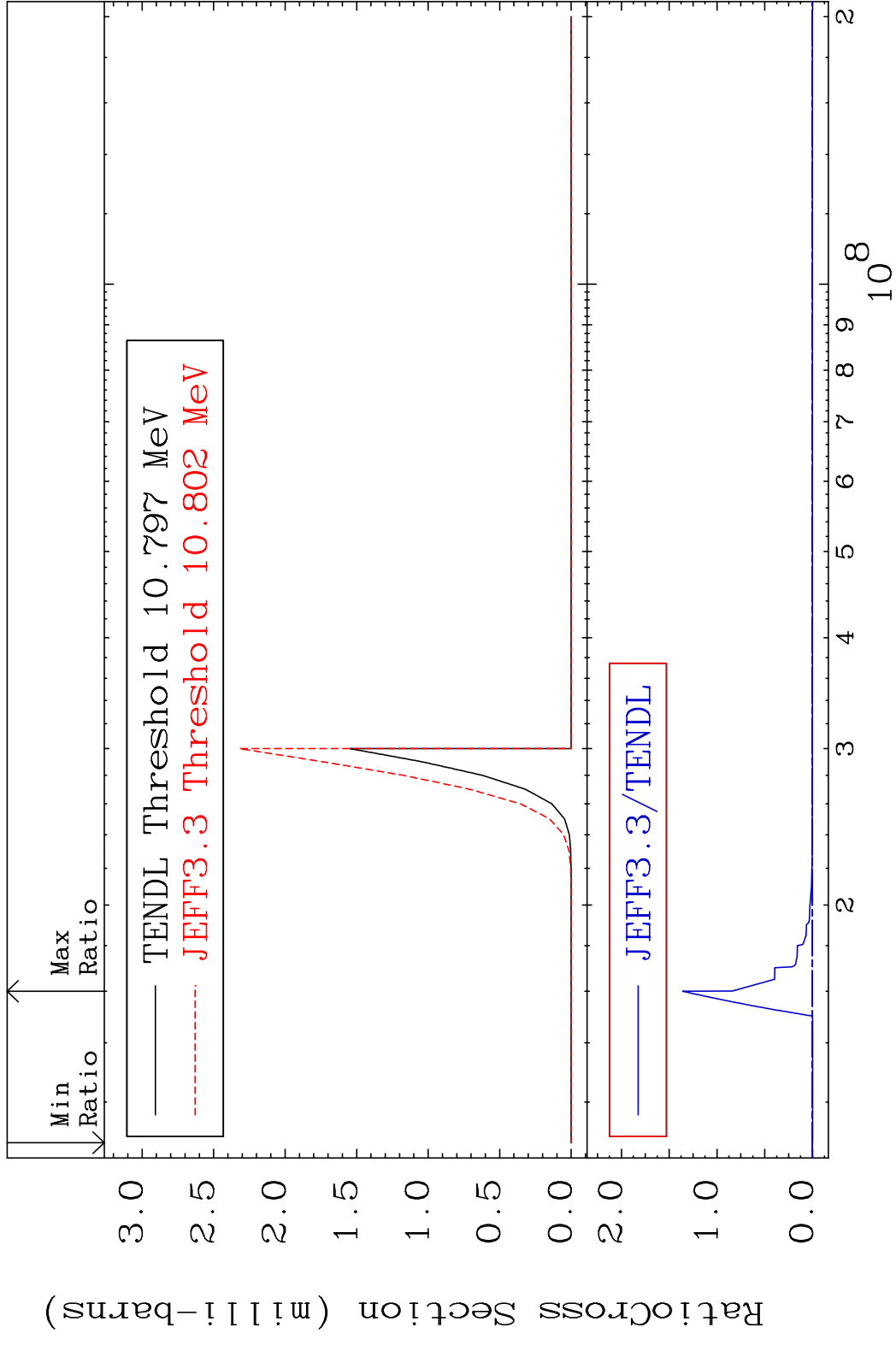
MAT 5837 (n, n') α :56-Ba-136g 58-Ce-140
 Radionuclide Production Cross Section Ratio 9999. %



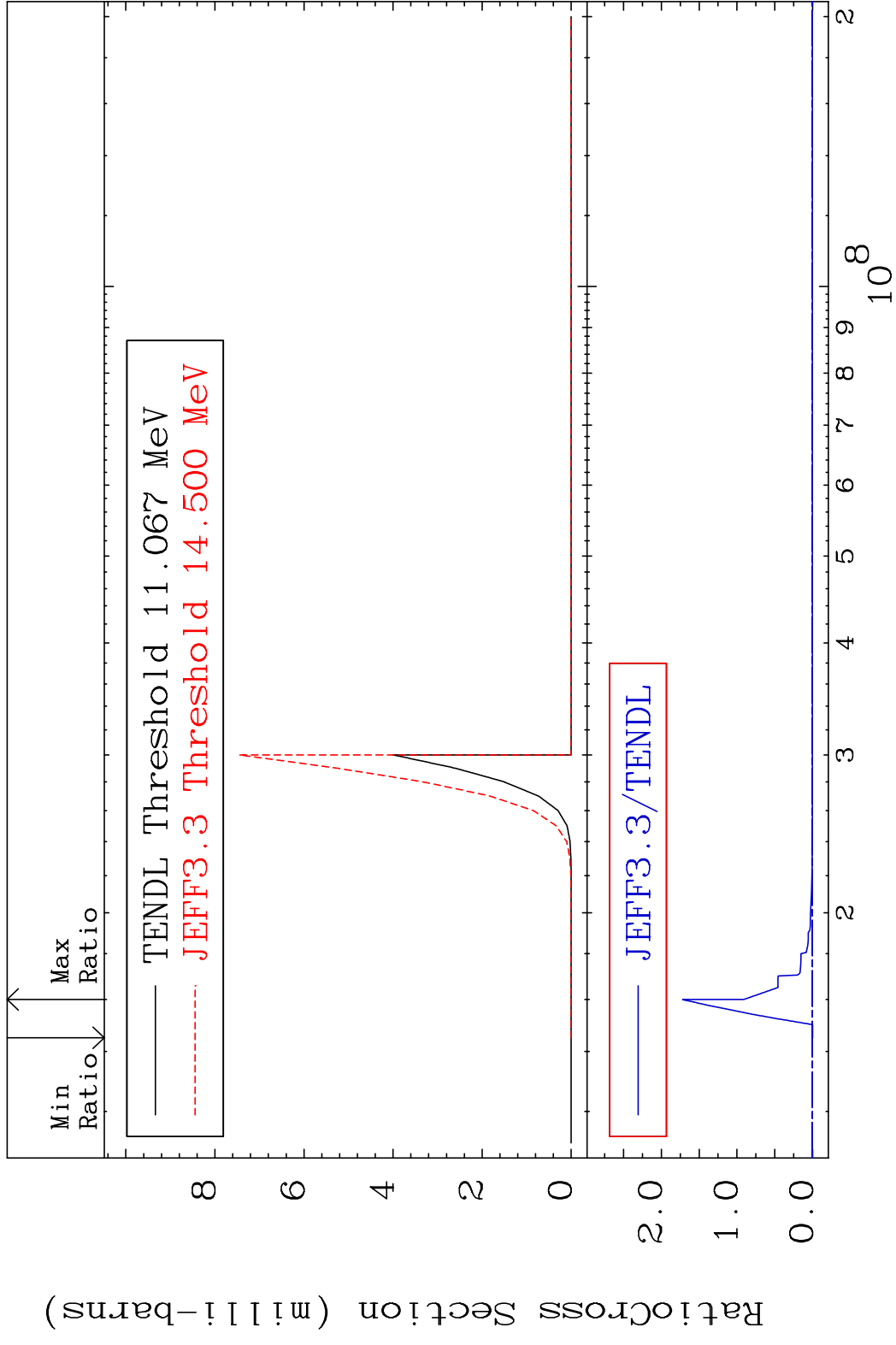
MAT 5837 (n, n') α :56-Ba-136m5 58-Ce-140
 Radionuclide Production Cross Section 9999. %



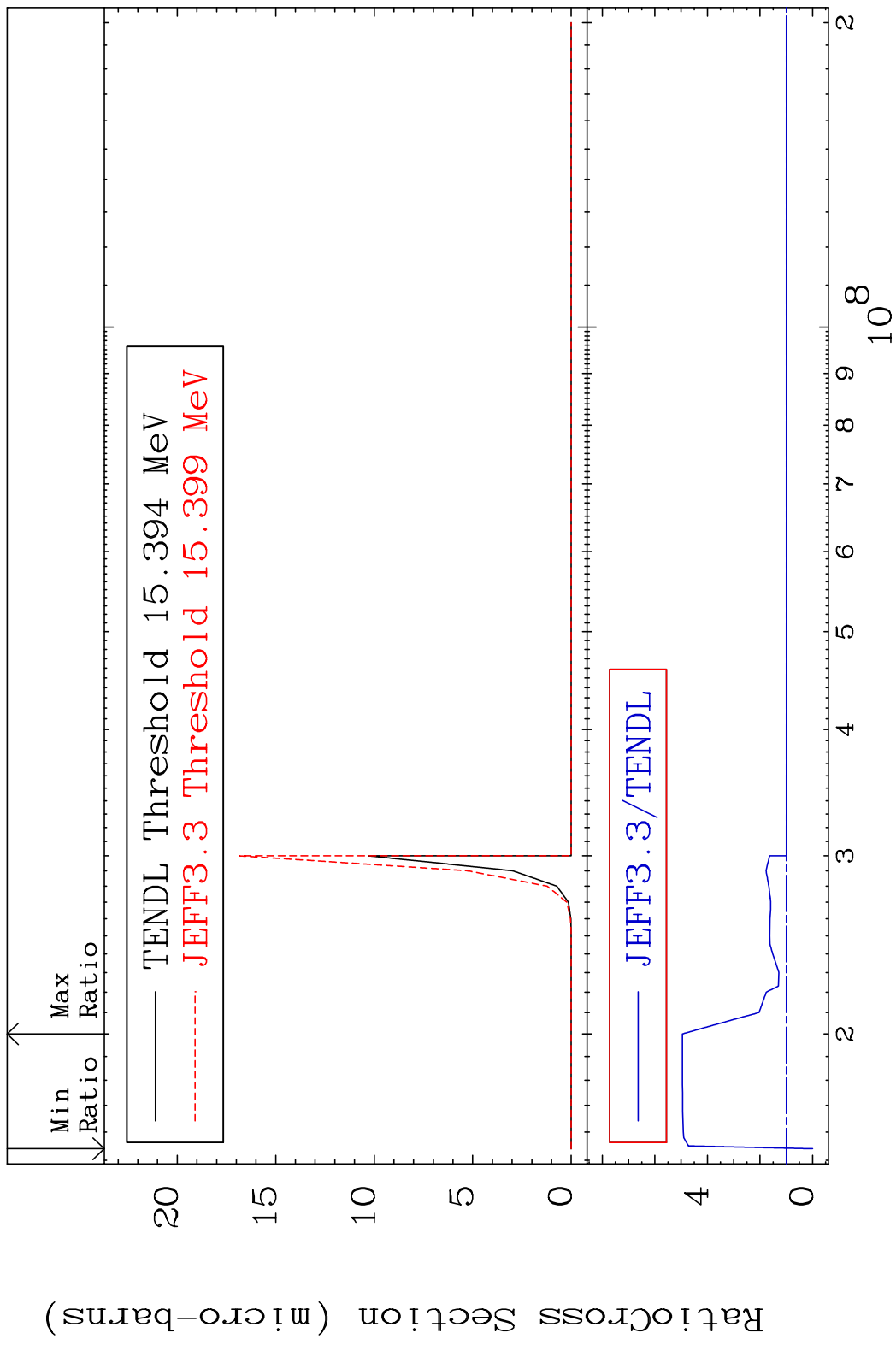
MAT 5837 (n,2n) α :56-Ba-135g 58-Ce-140
 Radionuclide Production Cross Section 100% 9999. %



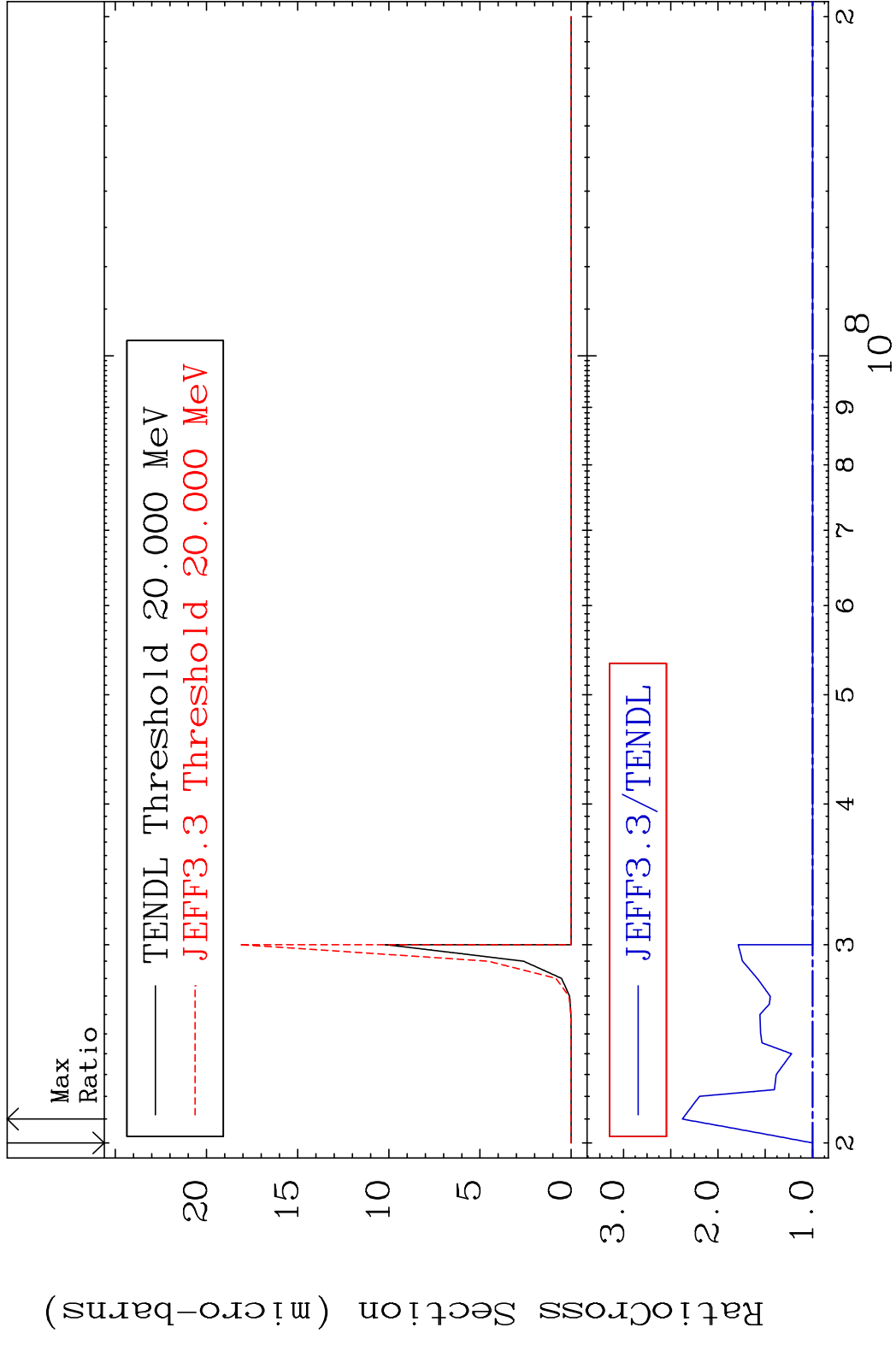
MAT 5837 (n,2n) α :56-Ba-135m2 58-Ce-140
 Radionuclide Production Cross Section 1800 d to 9999. %



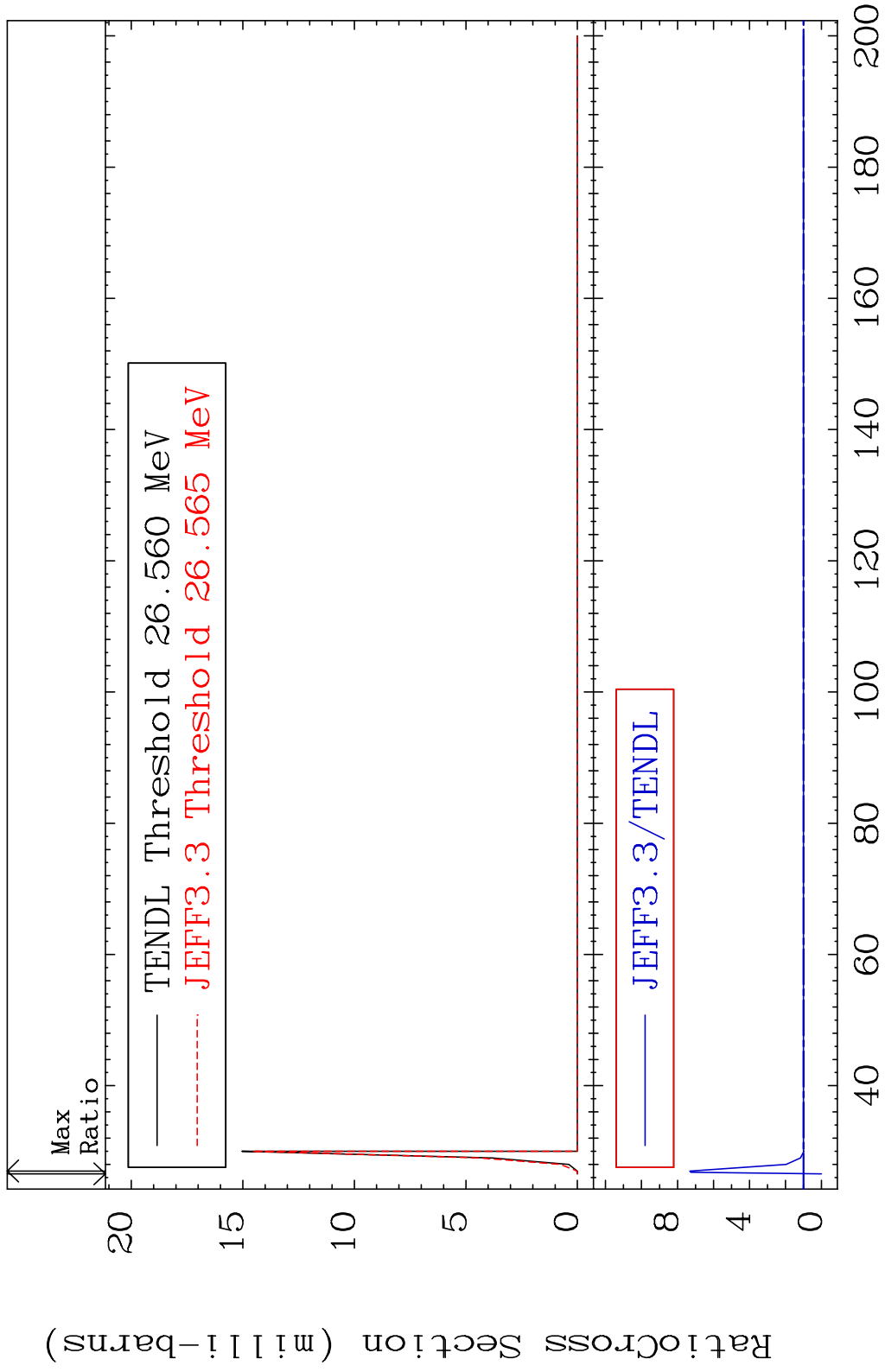
MAT 5837 (n, n') He-3:56-Ba-137g 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 395.3 %



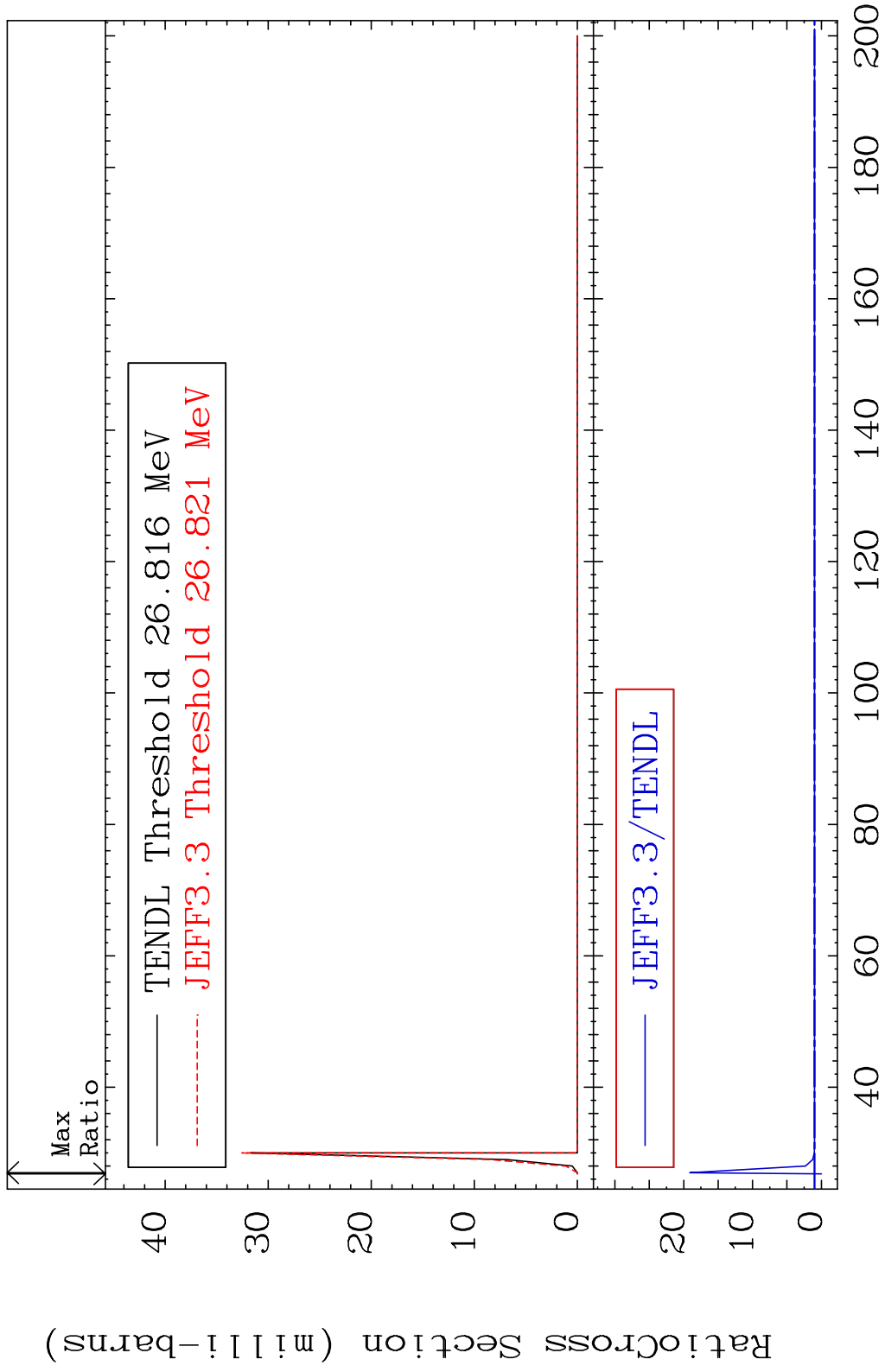
MAT 5837 (n, n') He-3:56-Ba-137m2 58-Ce-140
 Radionuclide Production Cross Section 137.7 %



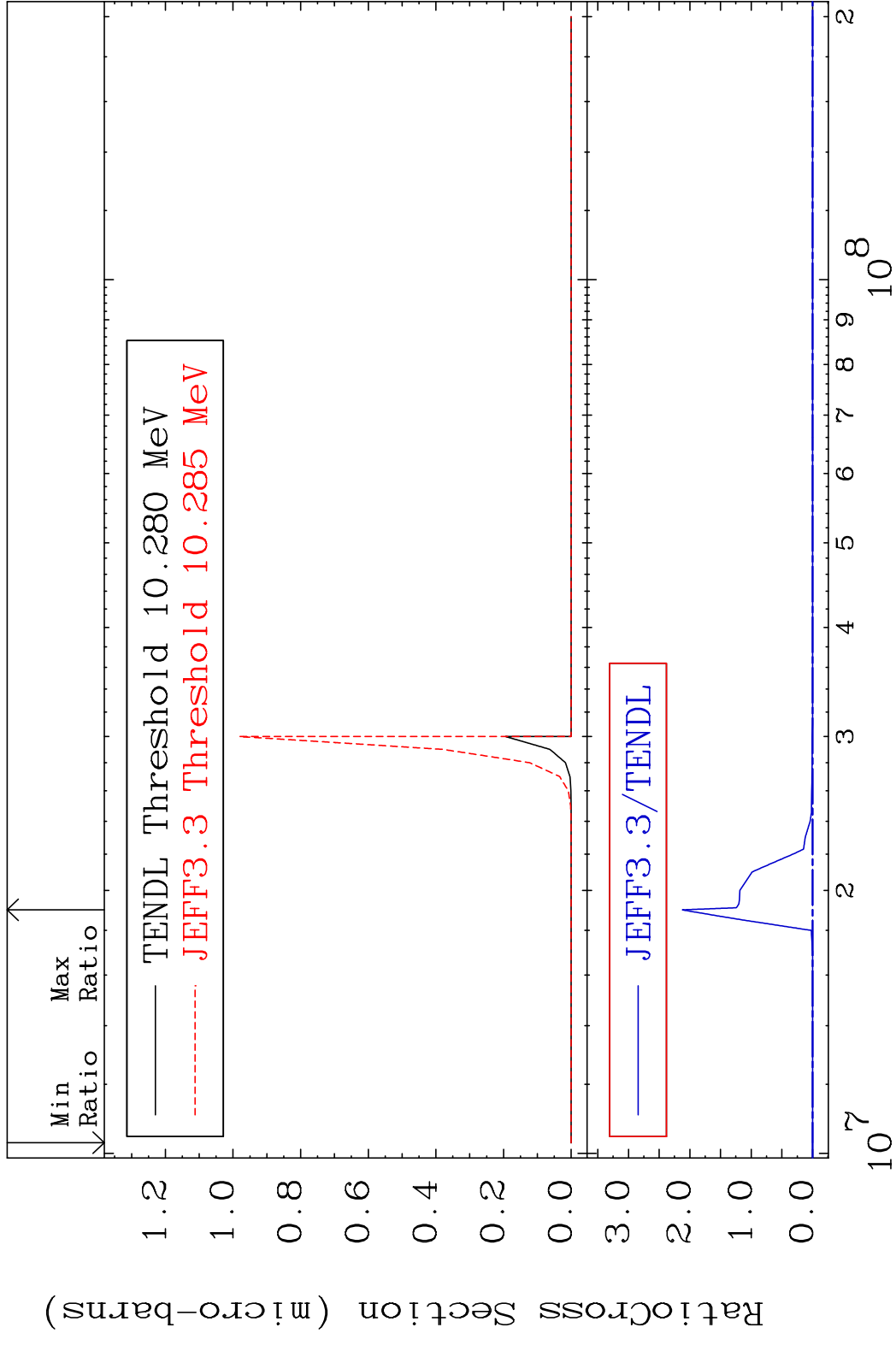
MAT 5837 (n, 4n) : 58-Ce-137g 58-Ce-140
 Radionuclide Production Cross Section Ratio 631.7 %



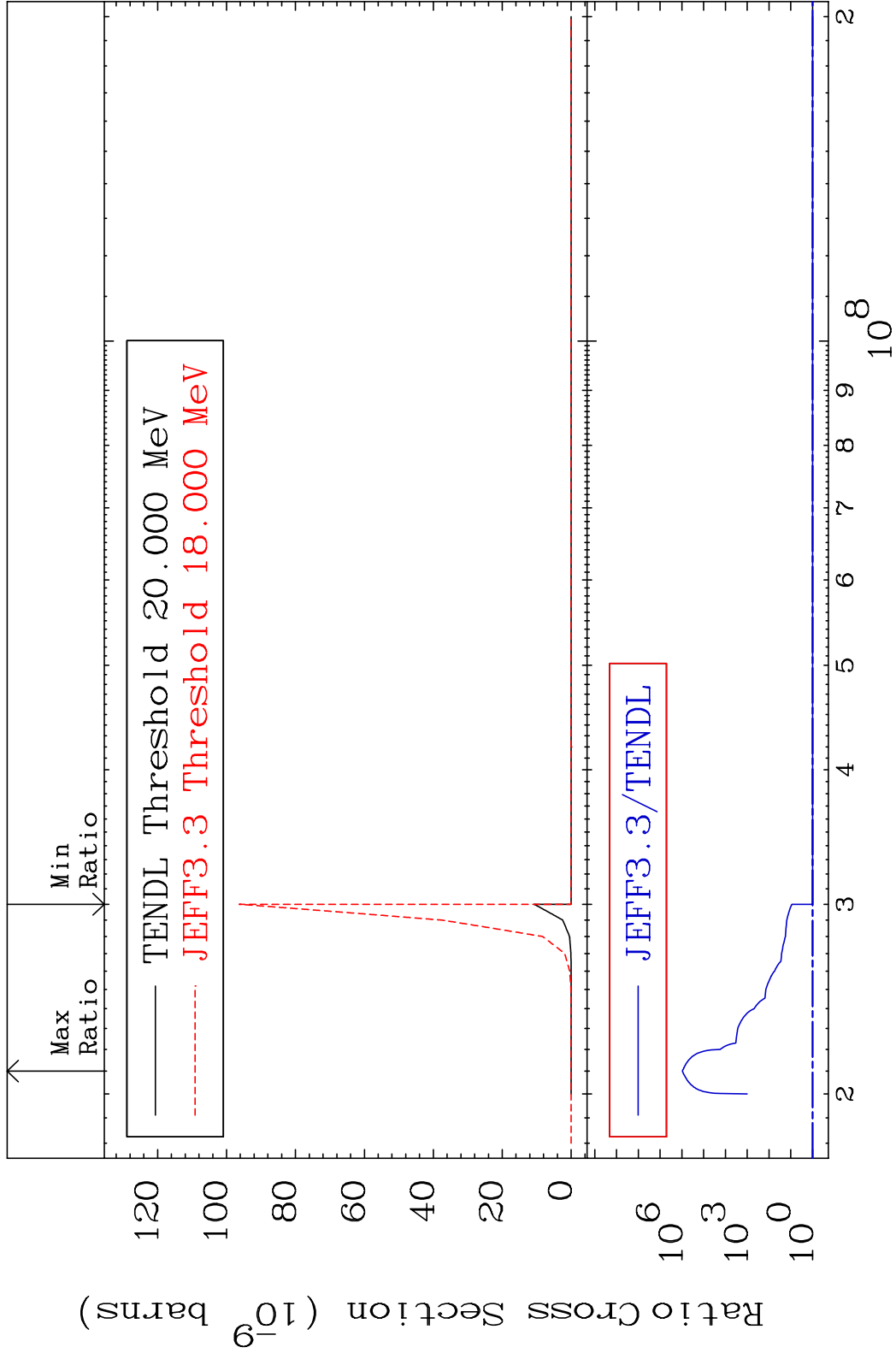
MAT 5837 (n, 4n):58-Ce-137m2 58-Ce-140
 Radionuclide Production Cross Section 180.01 dtd 1812. %



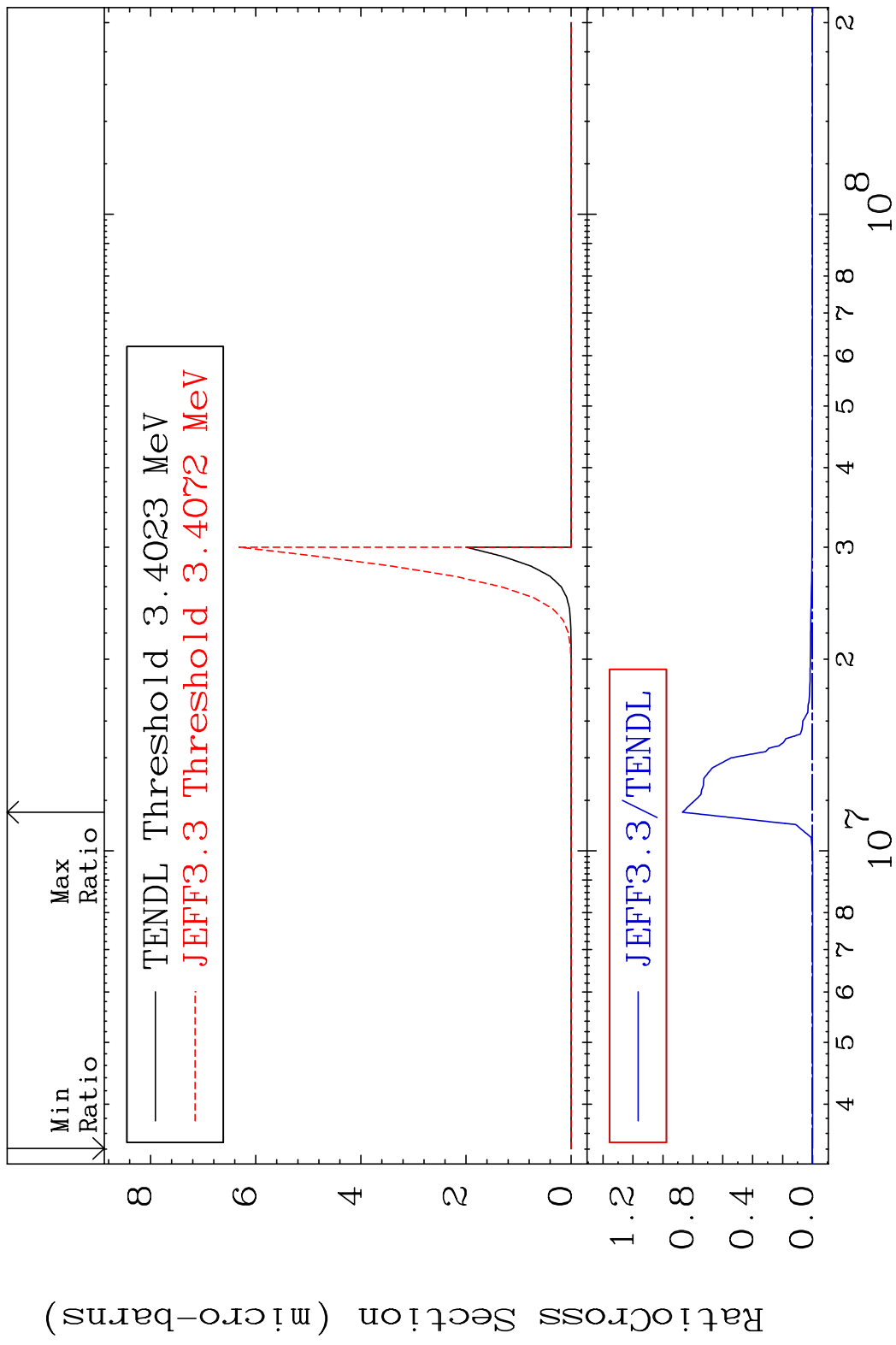
MAT 5837 (n, n') p α:55-Cs-135g 58-Ce-140
 Radionuclide Production Cross Section Ratio 9999. %



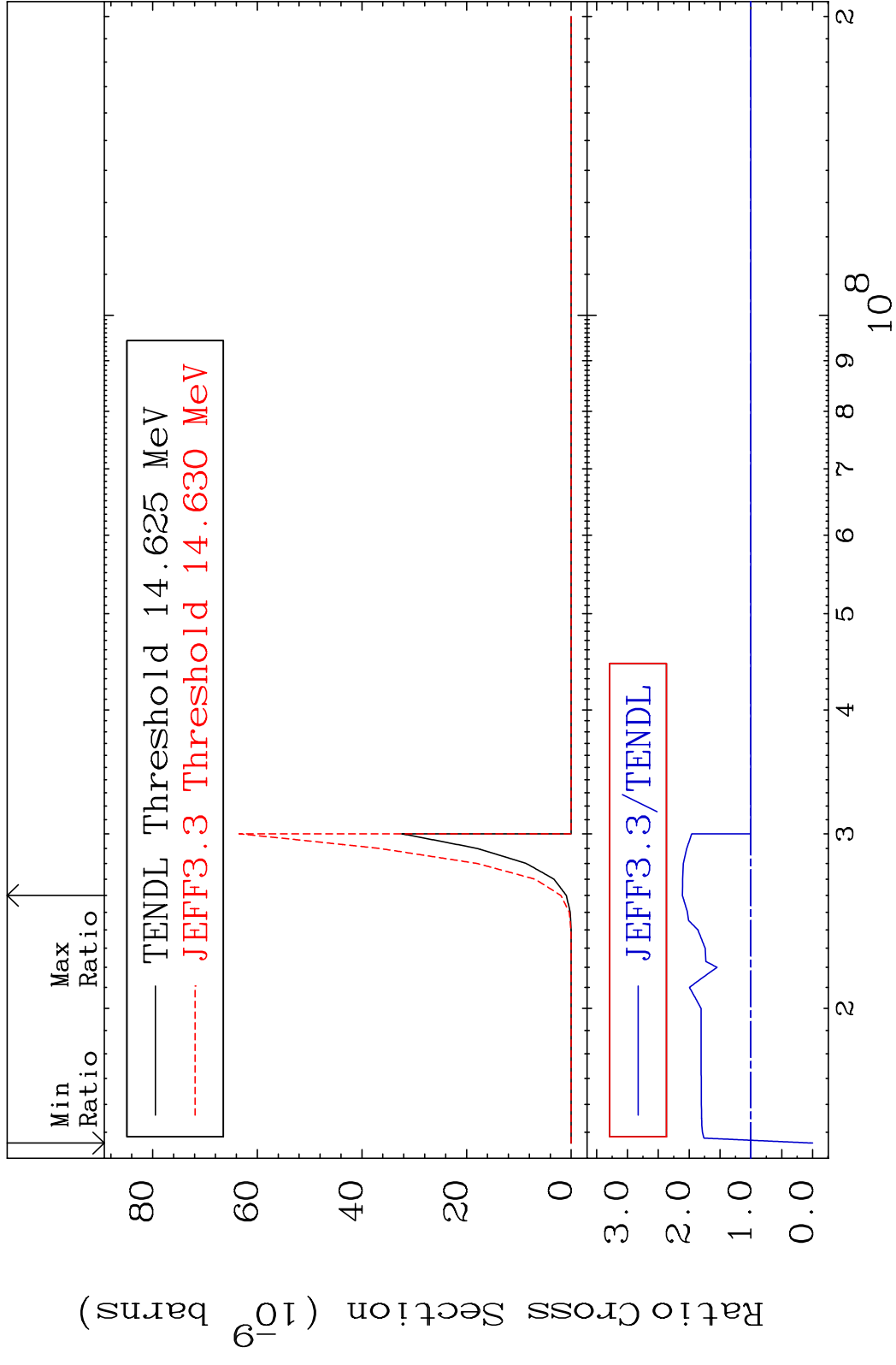
MAT 5837 (n, n') p α:55-Cs-135m10 58-Ce-140
 Radionuclide Production Cross Section, %



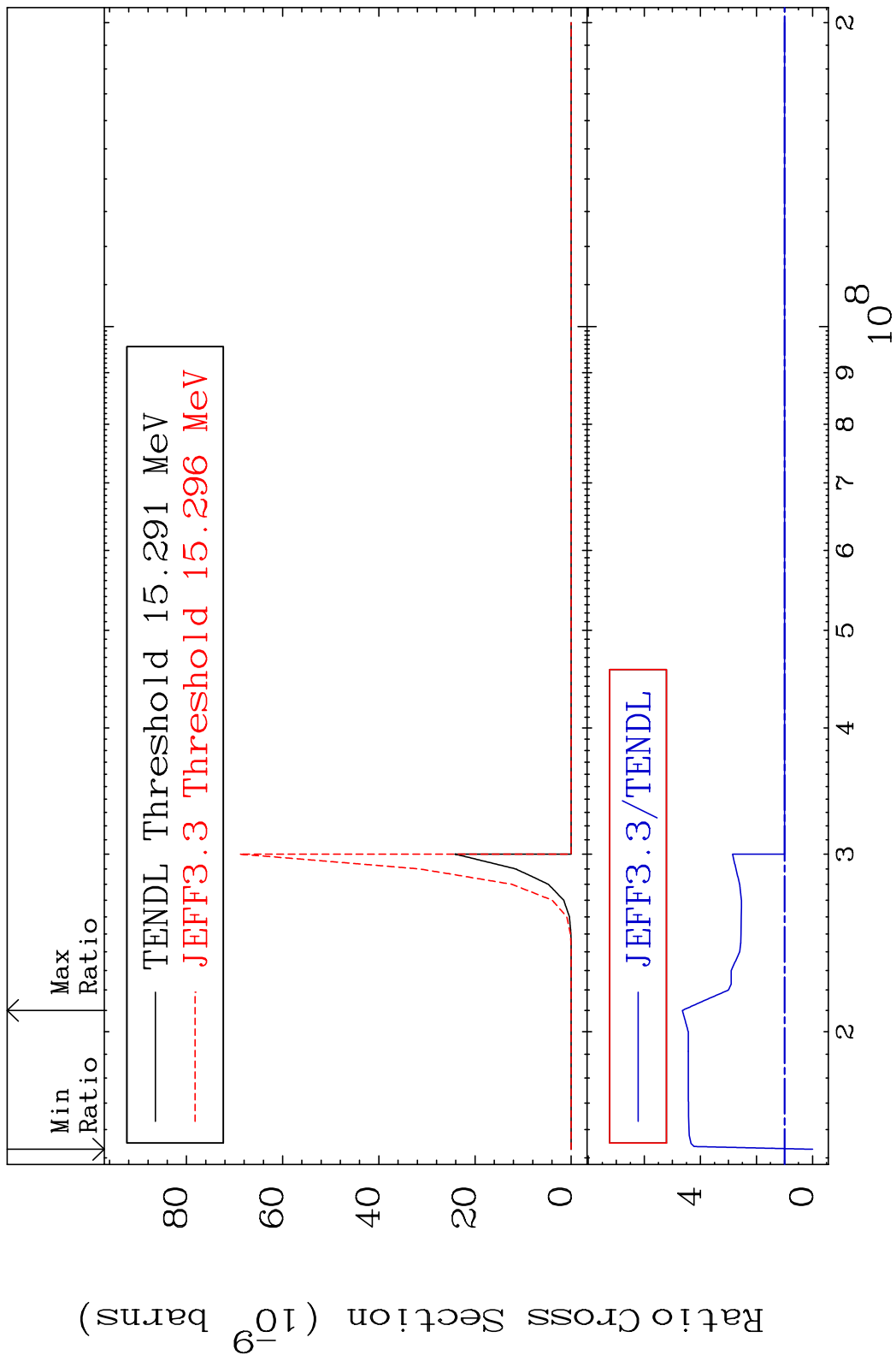
MAT 5837 (n,p) α :55-Cs-136g 58-Ce-140
 Radionuclide Production Cross Section Ratio 9999. %



MAT 5837 (n,p) t:56-Ba-137g 58-Ce-140
 Radionuclide Production Cross Section 180.0 dth 111.0 %



MAT 5837 (n, p) t:56-Ba-137m2 58-Ce-140
 Radionuclide Production Cross Section 180.01 dth 364.5 %



MAT 5837 (n, d) α :55-Cs-135g 58-Ce-140
 Radionuclide Production Cross Section Ratio 9999. %

