

Program Complot  
(Version 2021-1)

by

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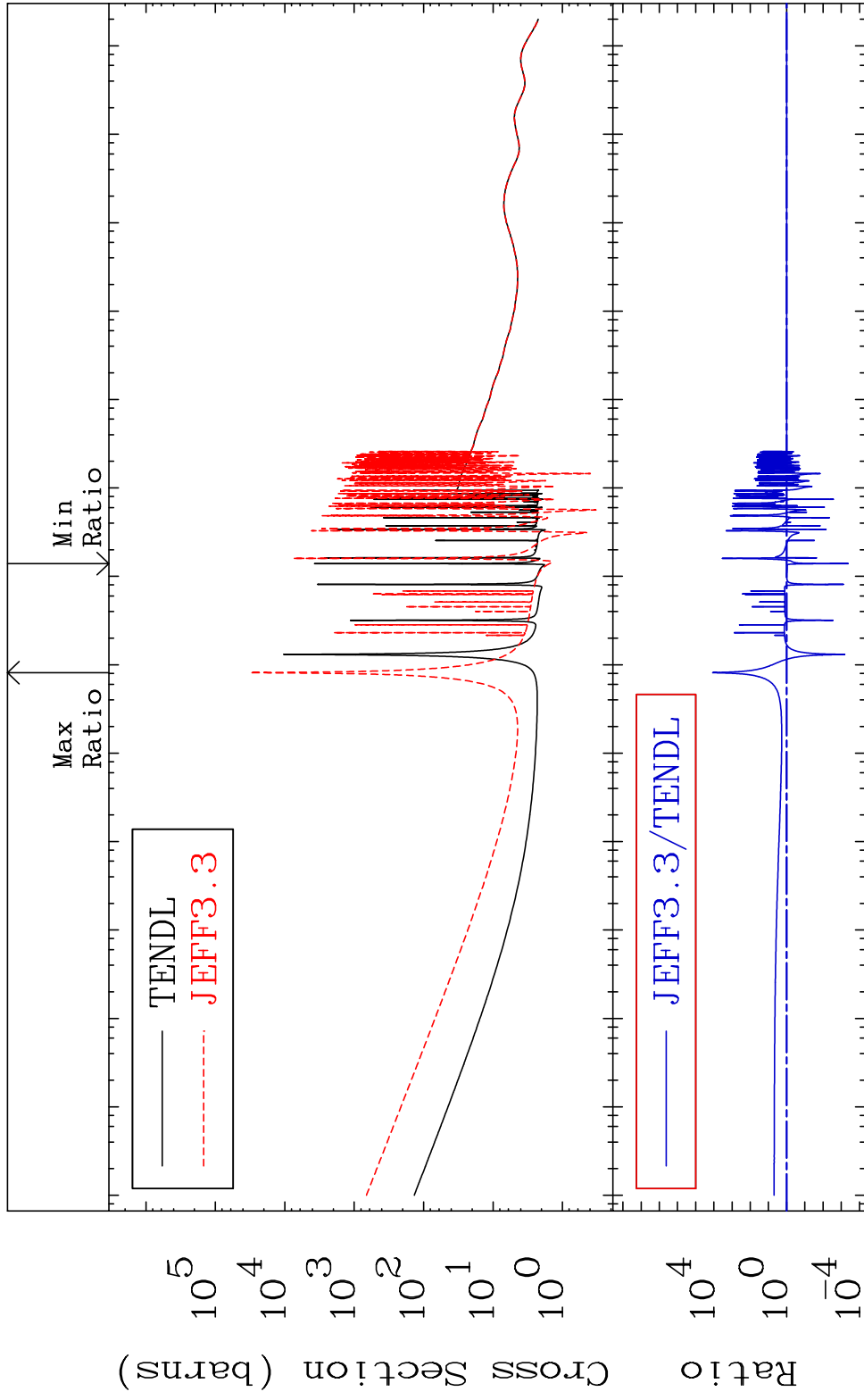
Press Mouse Button to Start

MAT 5731

Total

57-La-140

Cross Section -99.96 To 9999. %

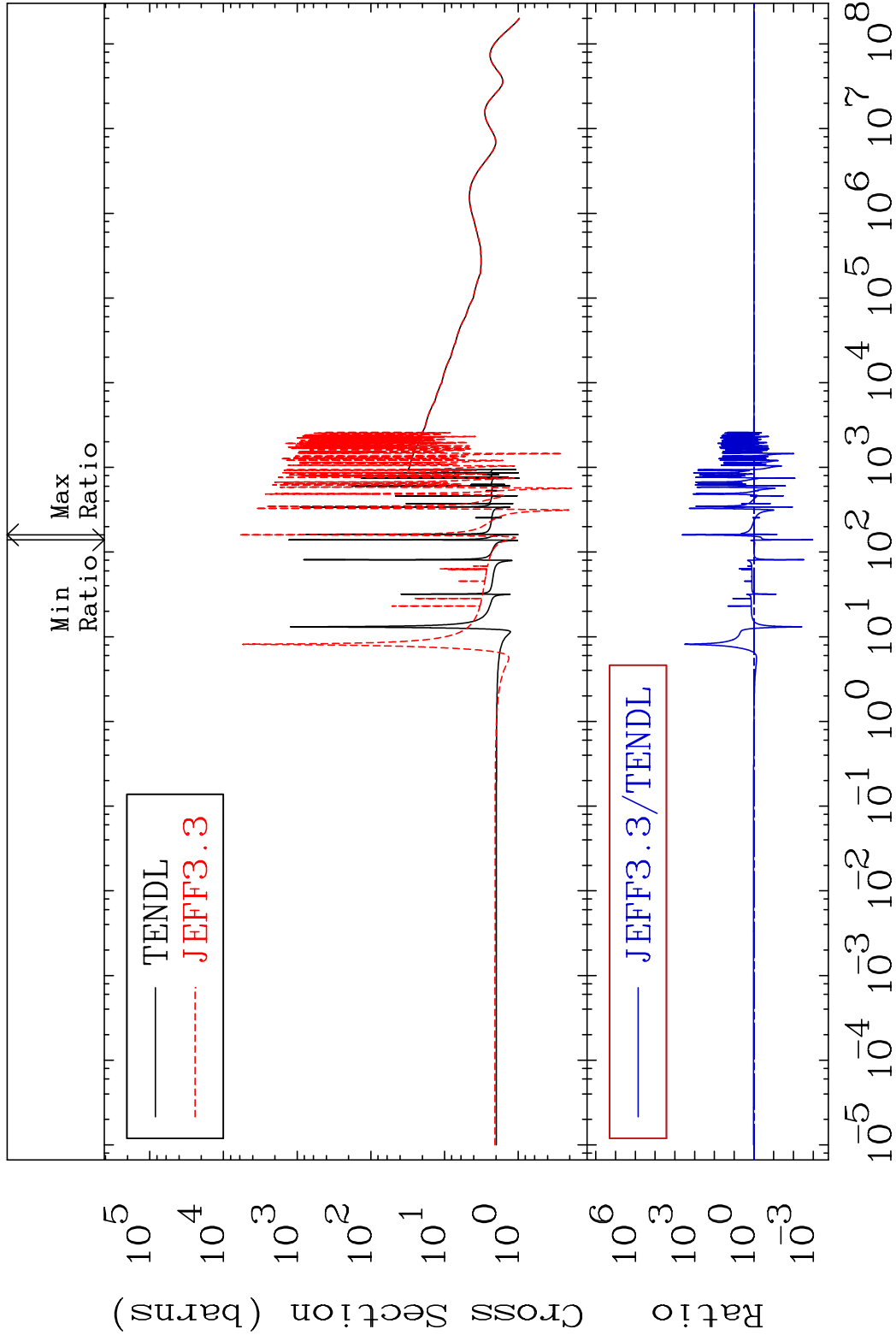


MAT 5731

Elastic

57-La-140

Cross Section -99.89 To 9999. %



2

Incident Energy (eV)

57-La-140

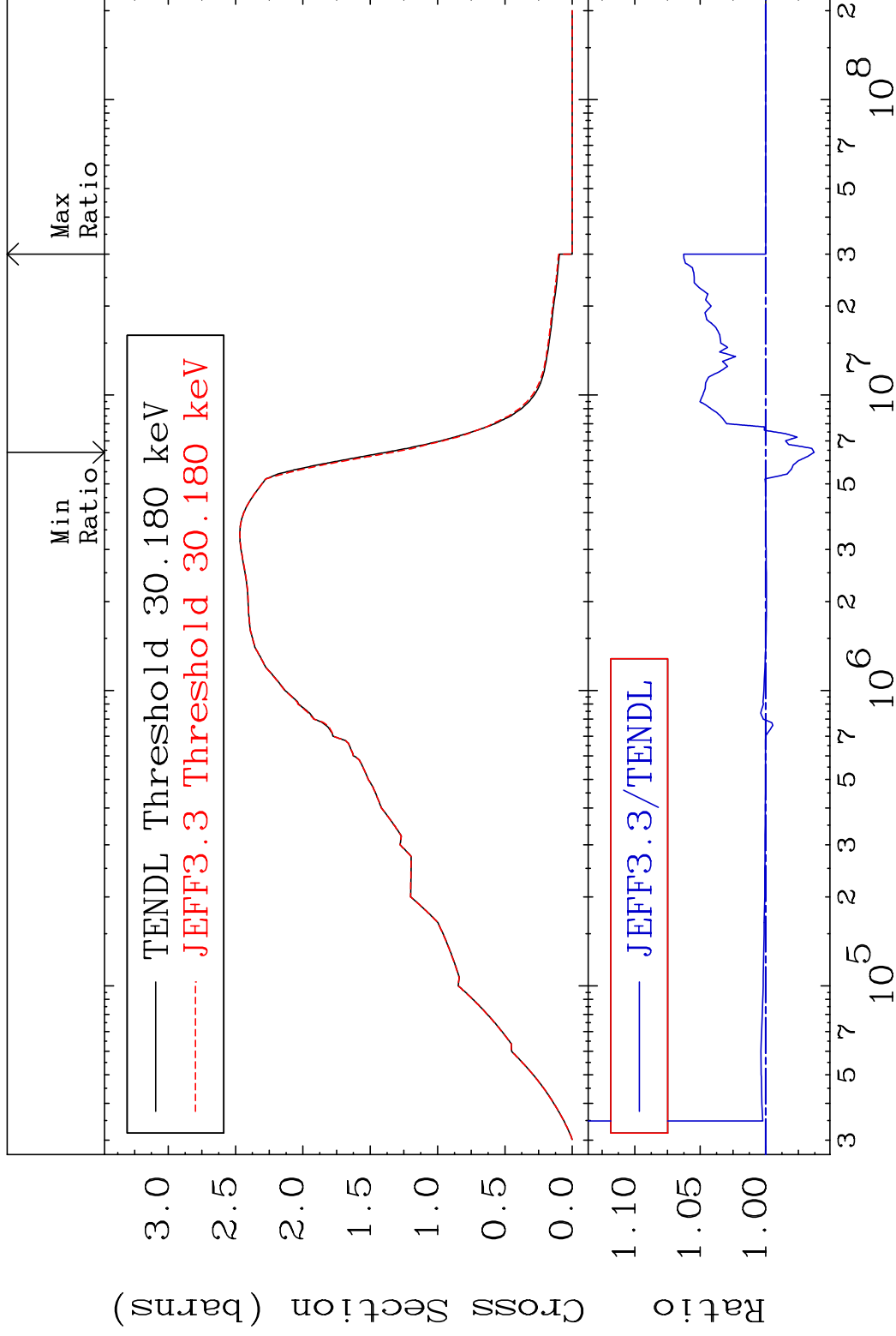
MAT 5731

Inelastic

57-La-140

Cross Section

-3.700 To 6.267 %



3

Incident Energy (eV)

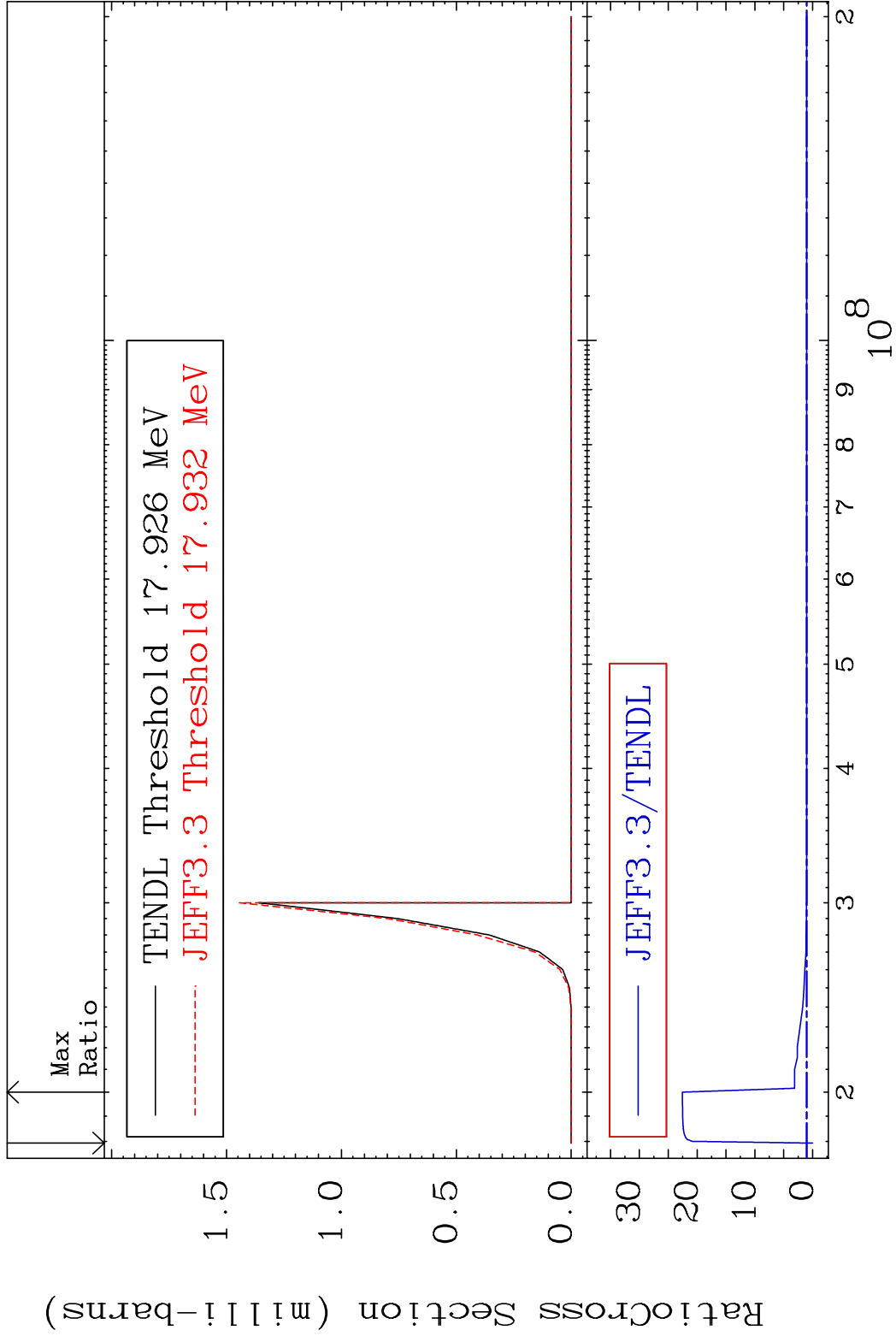
57-La-140

MAT 5731

(n,2n) d

57-La-140

Cross Section -100.0 To 2156. %



4

Incident Energy (eV)

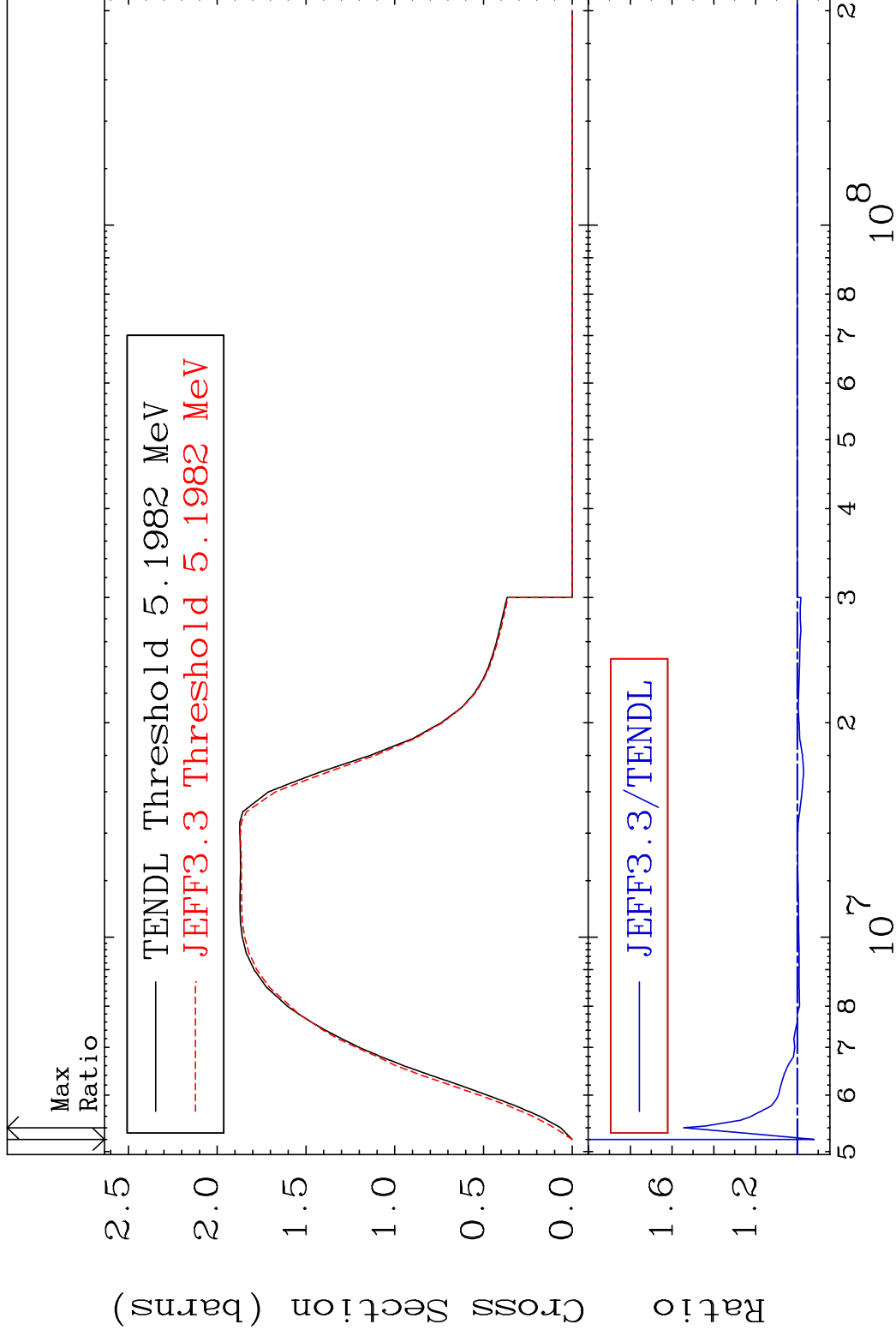
57-La-140

MAT 5731

(n,2n)

57-La-140

Cross Section -8.052 To 54.45 %



5

Incident Energy (eV)

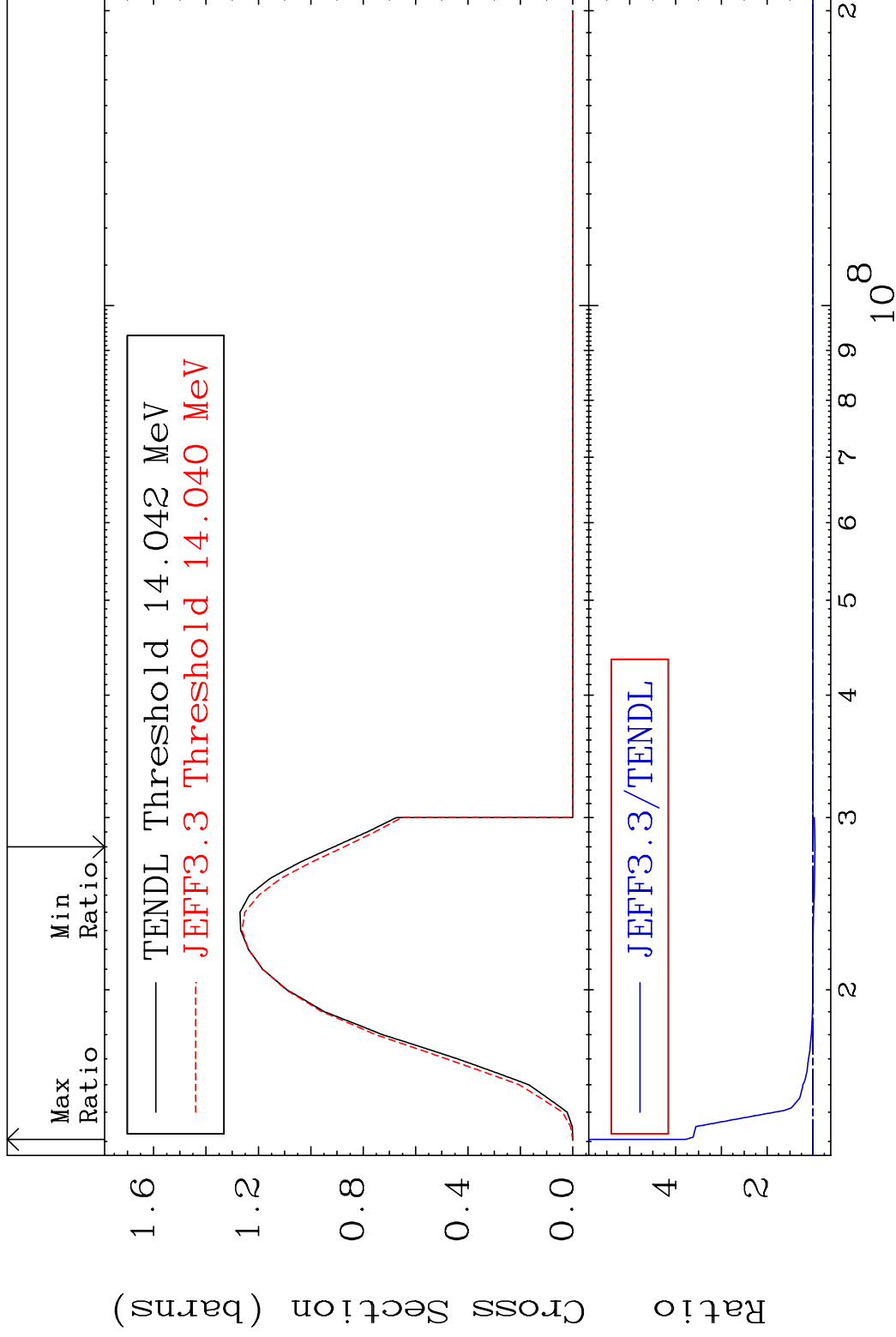
57-La-140

MAT 5731

(n,3n)

57-La-140

Cross Section -4.291 To 280.9 %



6

Incident Energy (eV)

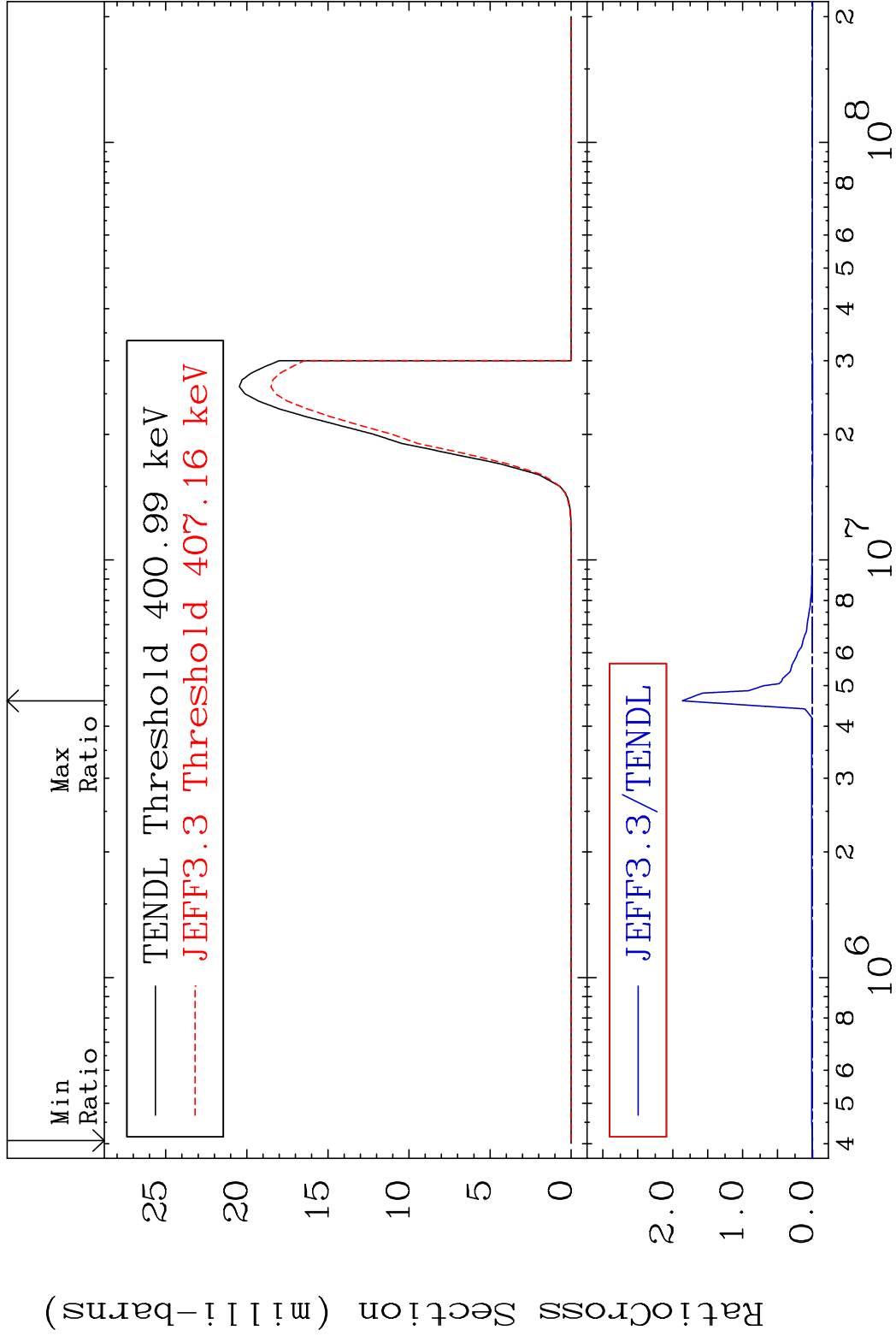
57-La-140

MAT 5731

(n, n')  $\alpha$

57-La-140

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

57-La-140

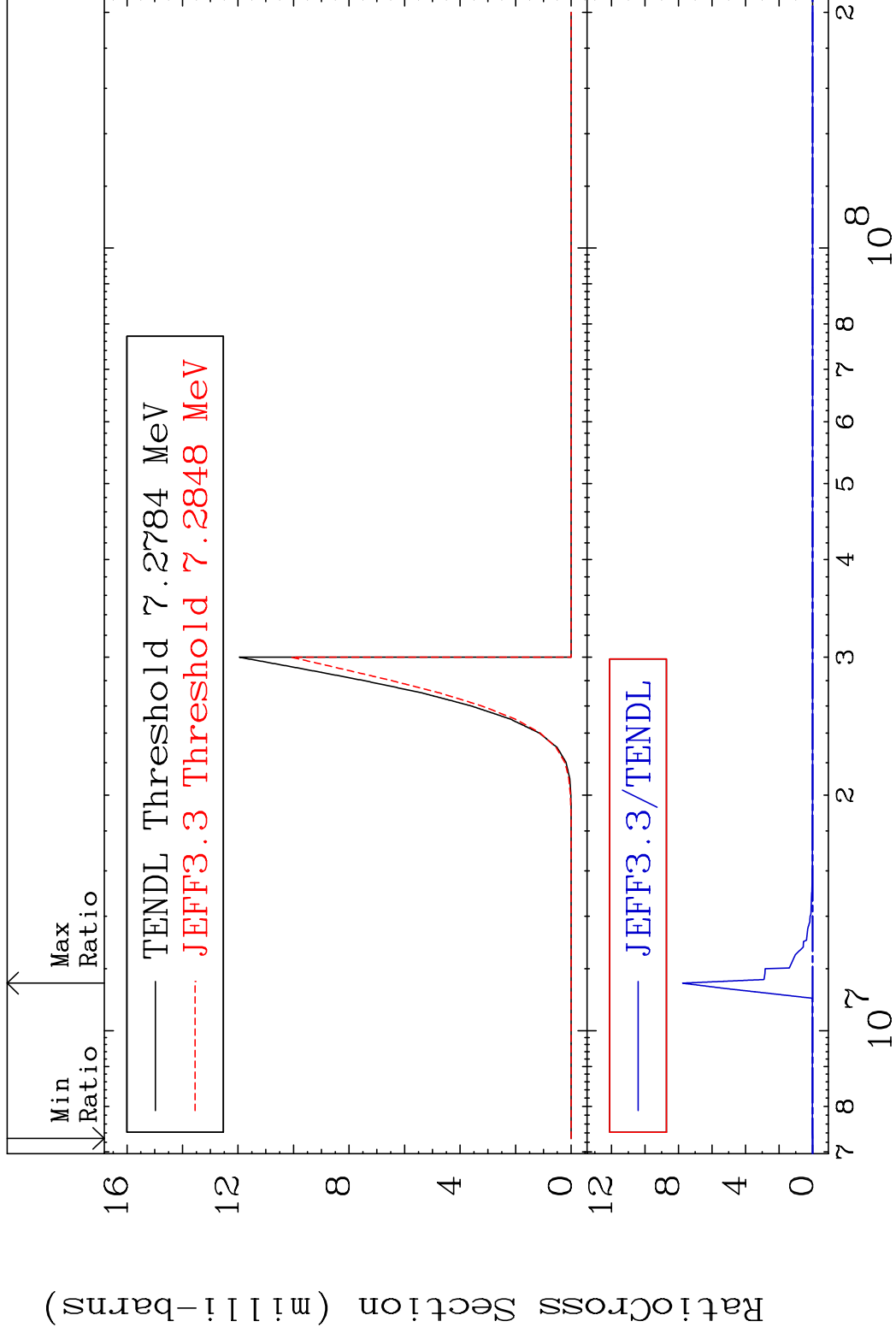


MAT 5731

(n,2n)  $\alpha$

57-La-140

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

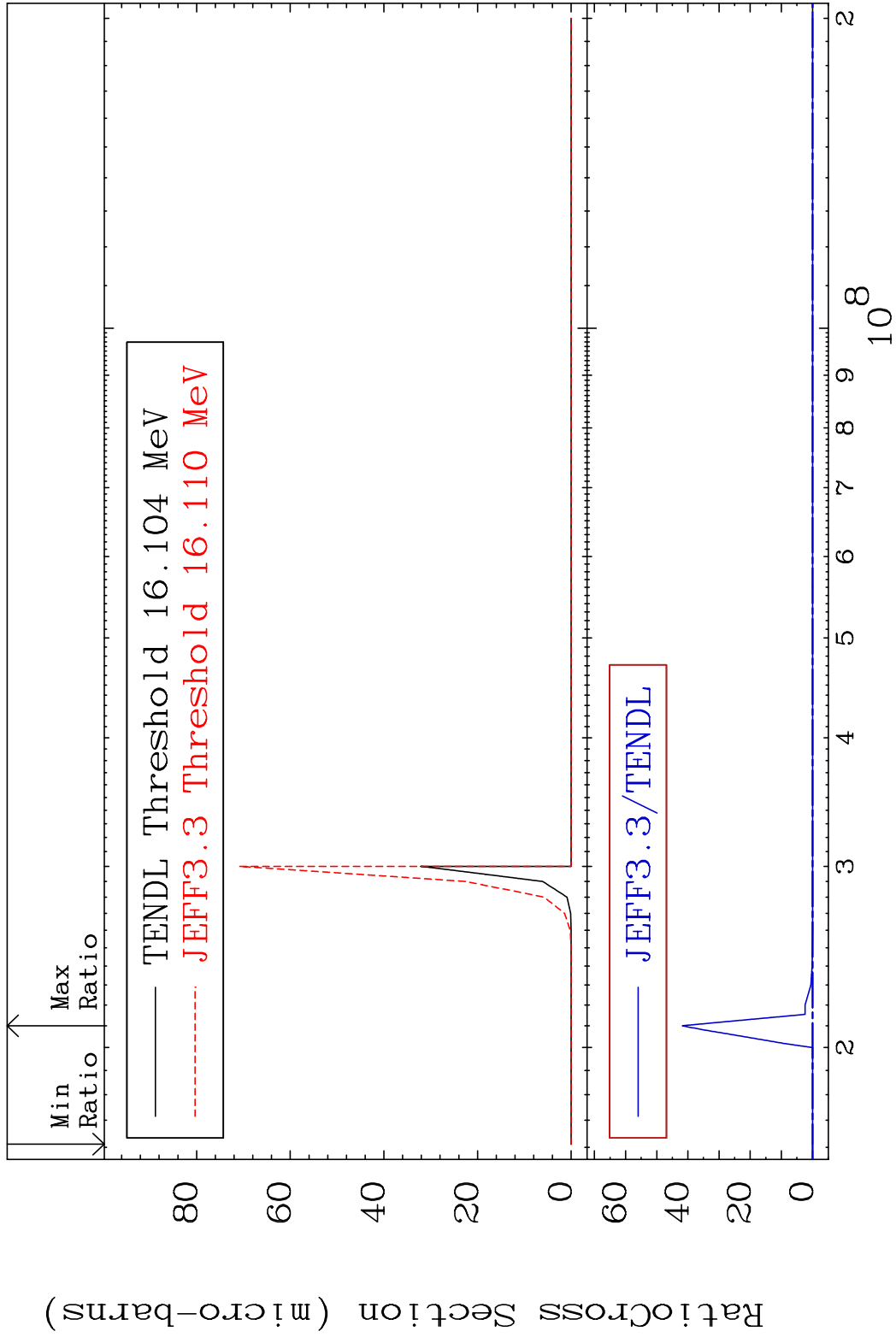
57-La-140

MAT 5731

(n,3n)  $\alpha$

57-La-140

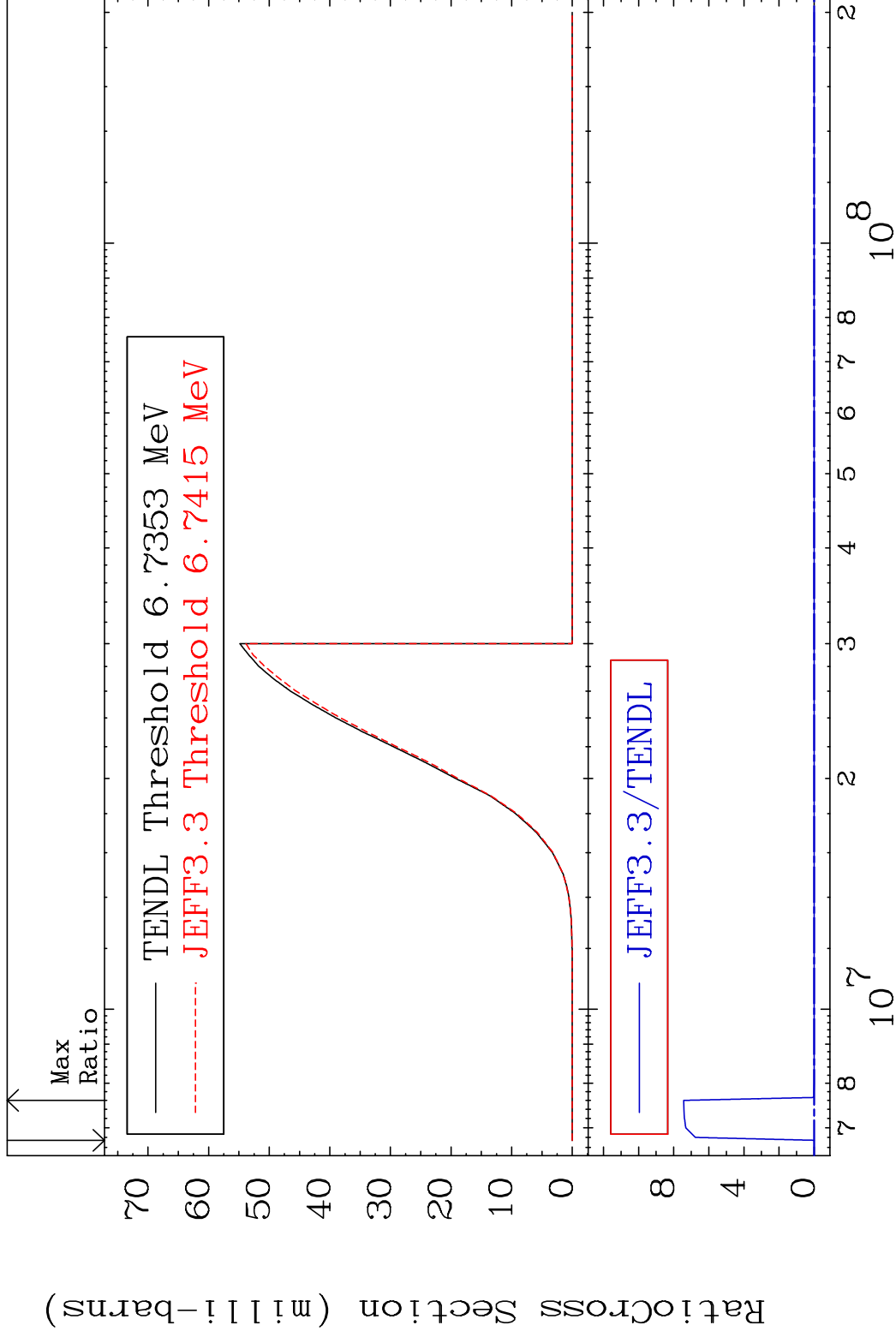
Cross Section -100.0 To 9999. %



MAT 5731

(n, n') p 57-La-140

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

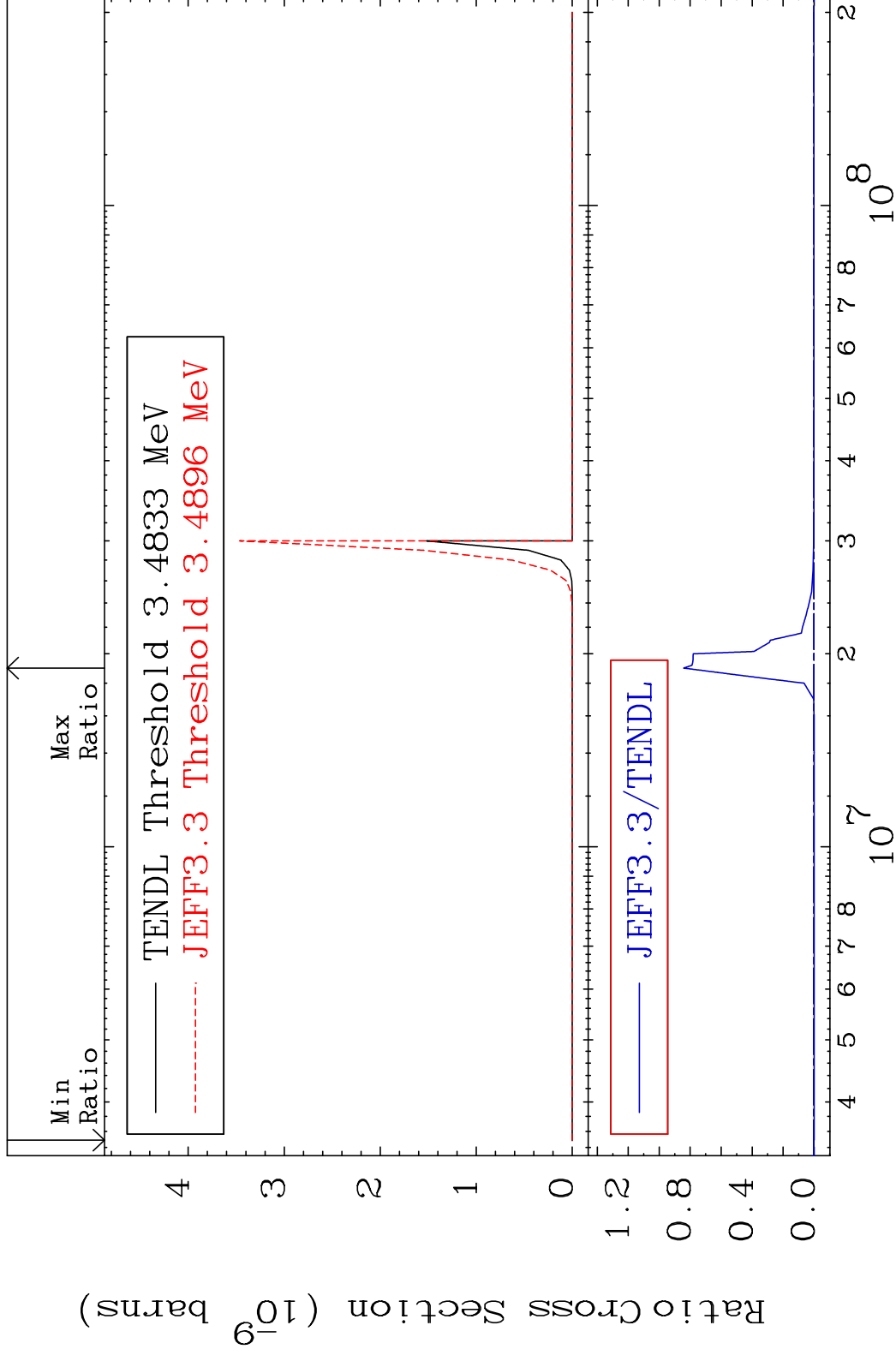
57-La-140

MAT 5731

(n, n') 2 $\alpha$

57-La-140

Cross Section -100.0 To 9999. %

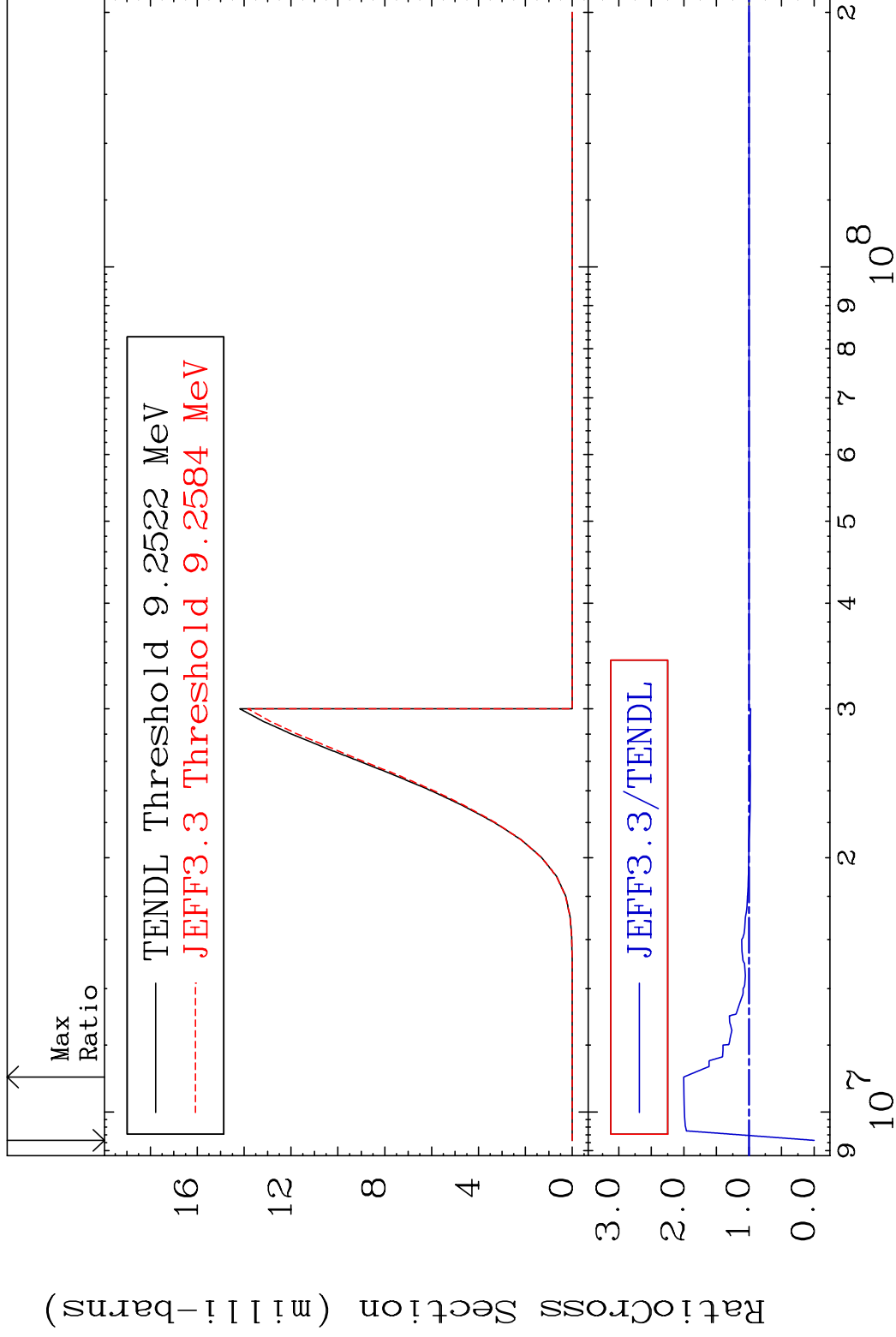


MAT 5731

(n, n') d

57-La-140

Cross Section -100.0 To 100.4 %



12

Incident Energy (eV)

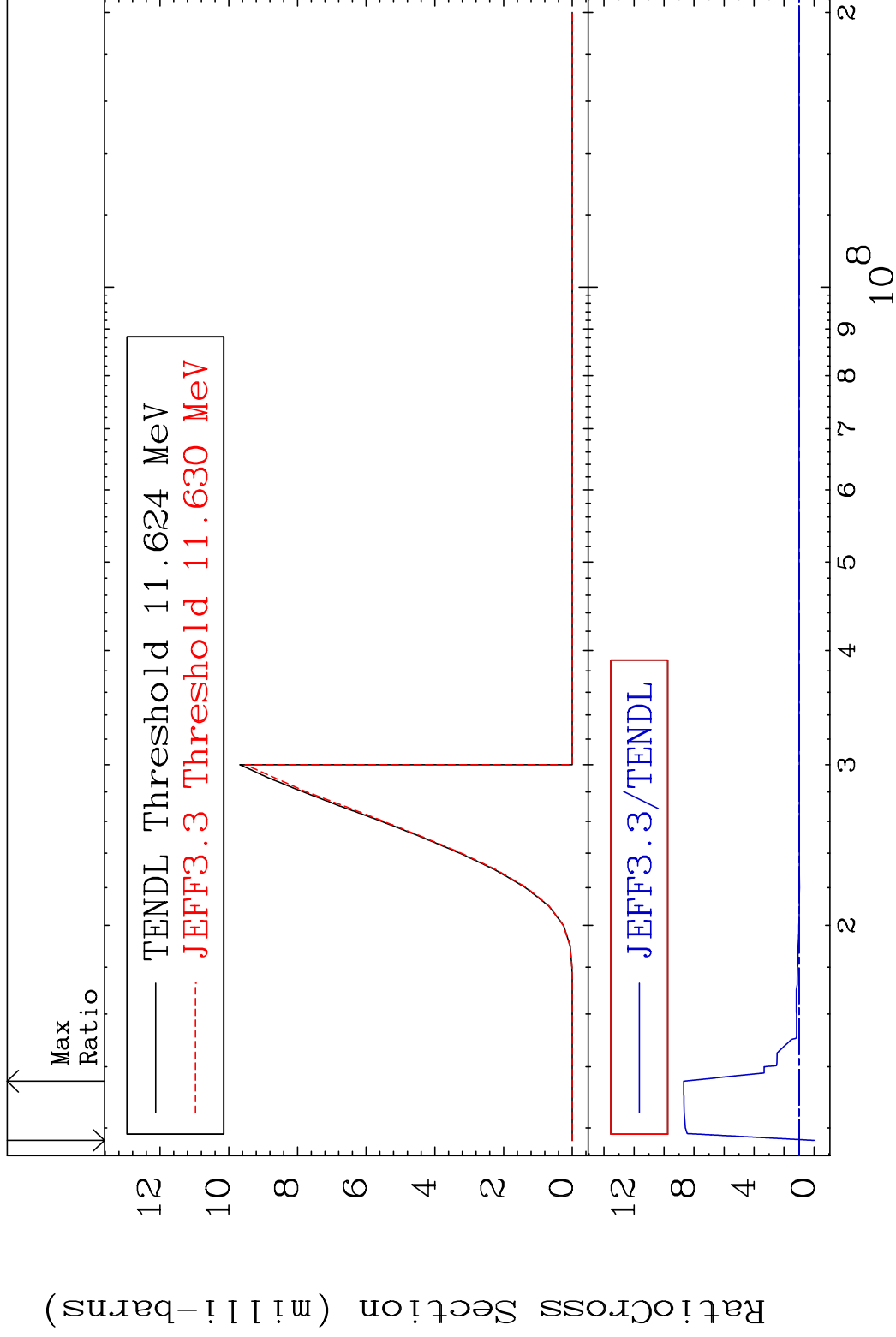
57-La-140

MAT 5731

(n, n') t

57-La-140

Cross Section -100.0 To 769.3 %



13

Incident Energy (eV)

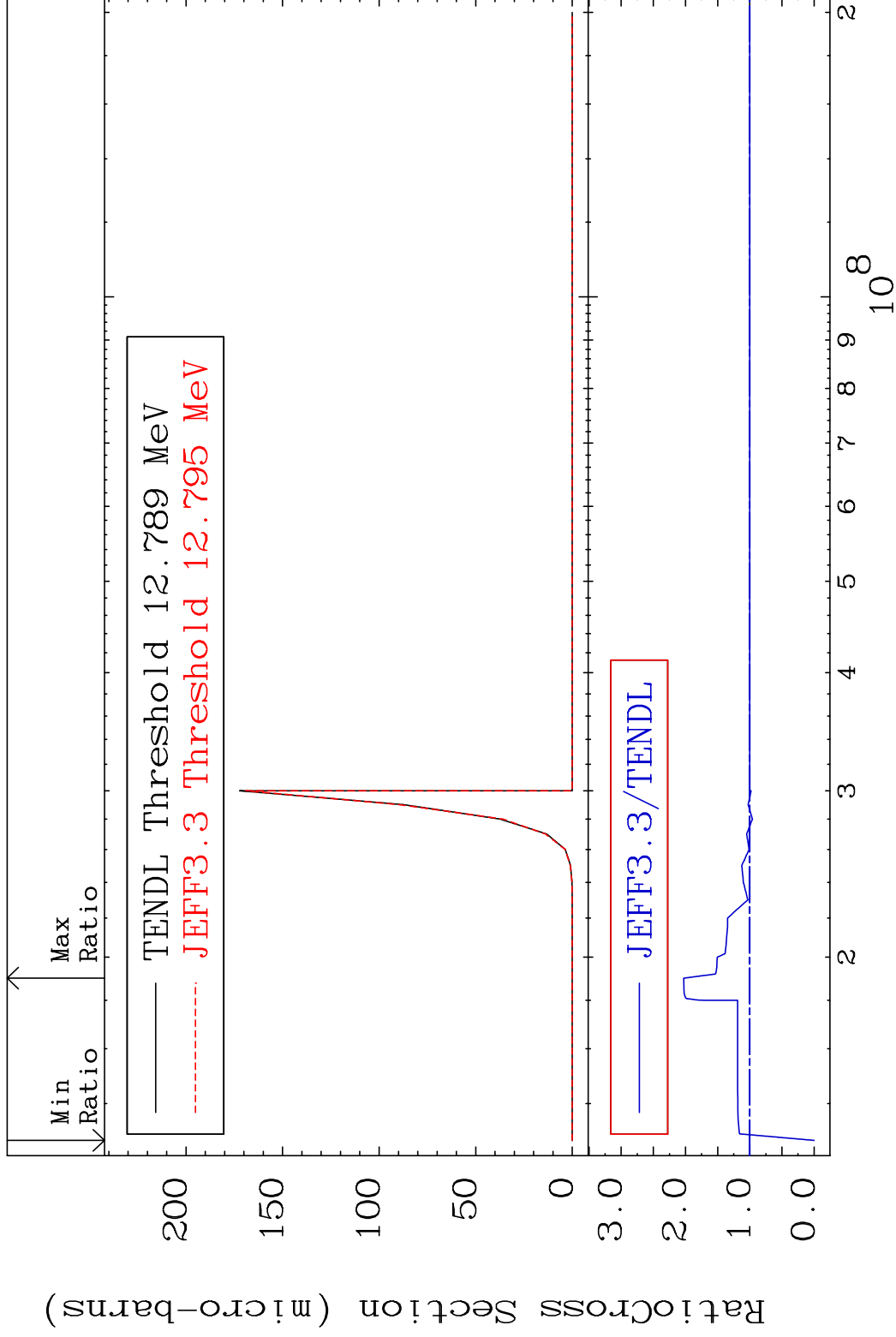
57-La-140

MAT 5731

(n,n') He-3

57-La-140

Cross Section -100.0 To 102.9 %



14

Incident Energy (eV)

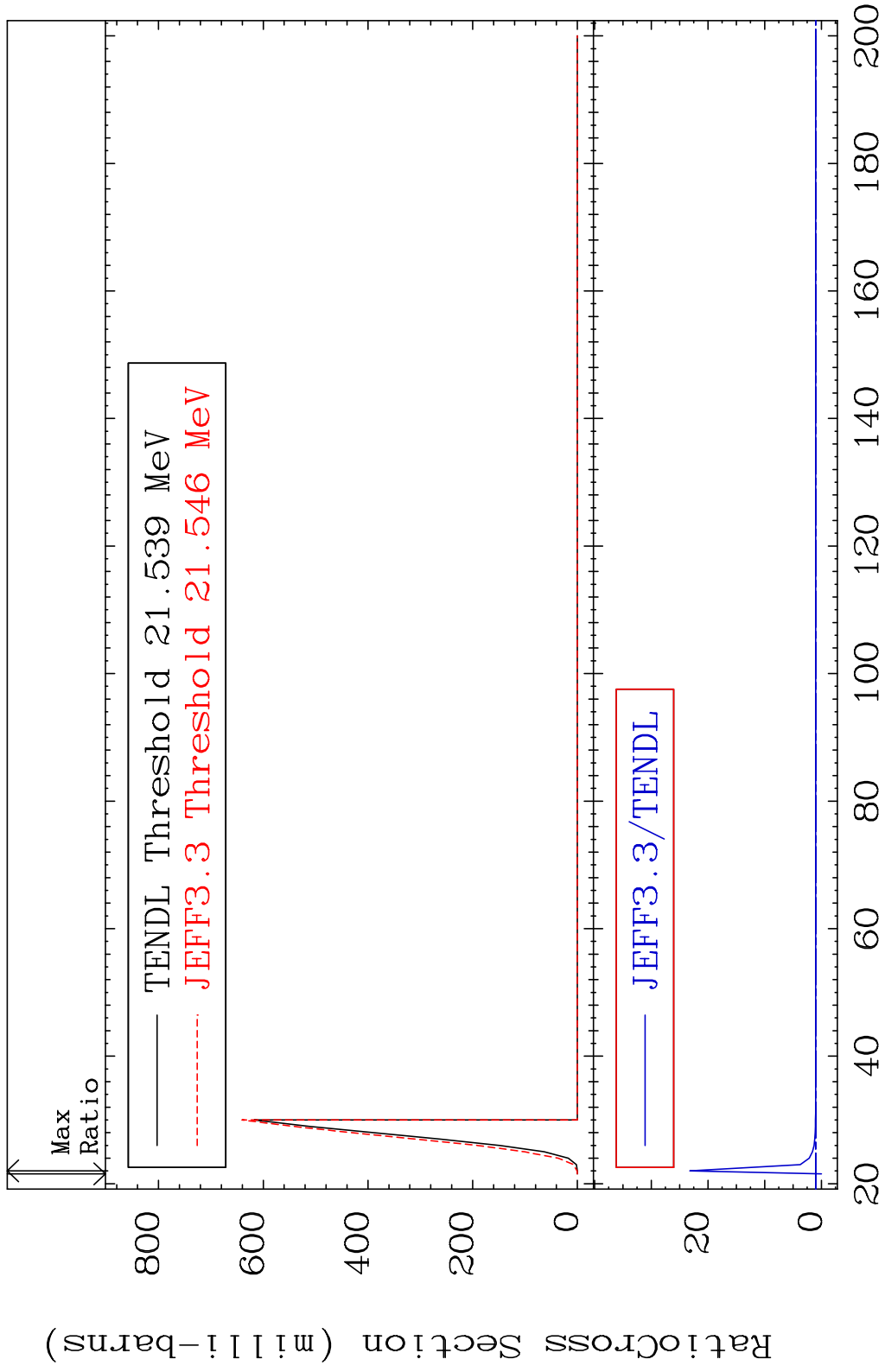
57-La-140

MAT 5731

(n,4n)

57-La-140

Cross Section -100.0 To 2221. %



15

Incident Energy (MeV)

57-La-140

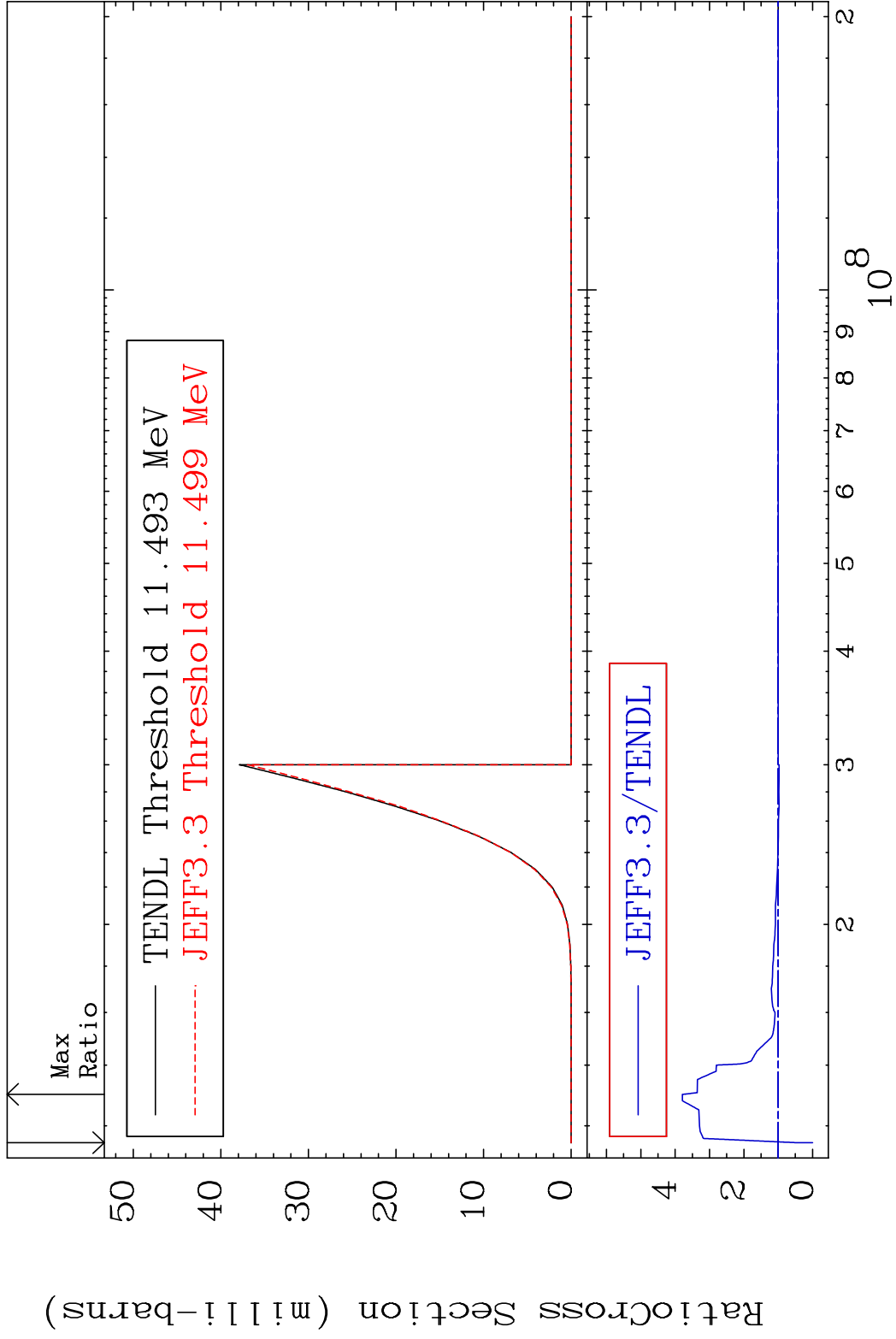


MAT 5731

(n,2n) p

57-La-140

Cross Section -100.0 To 279.1 %

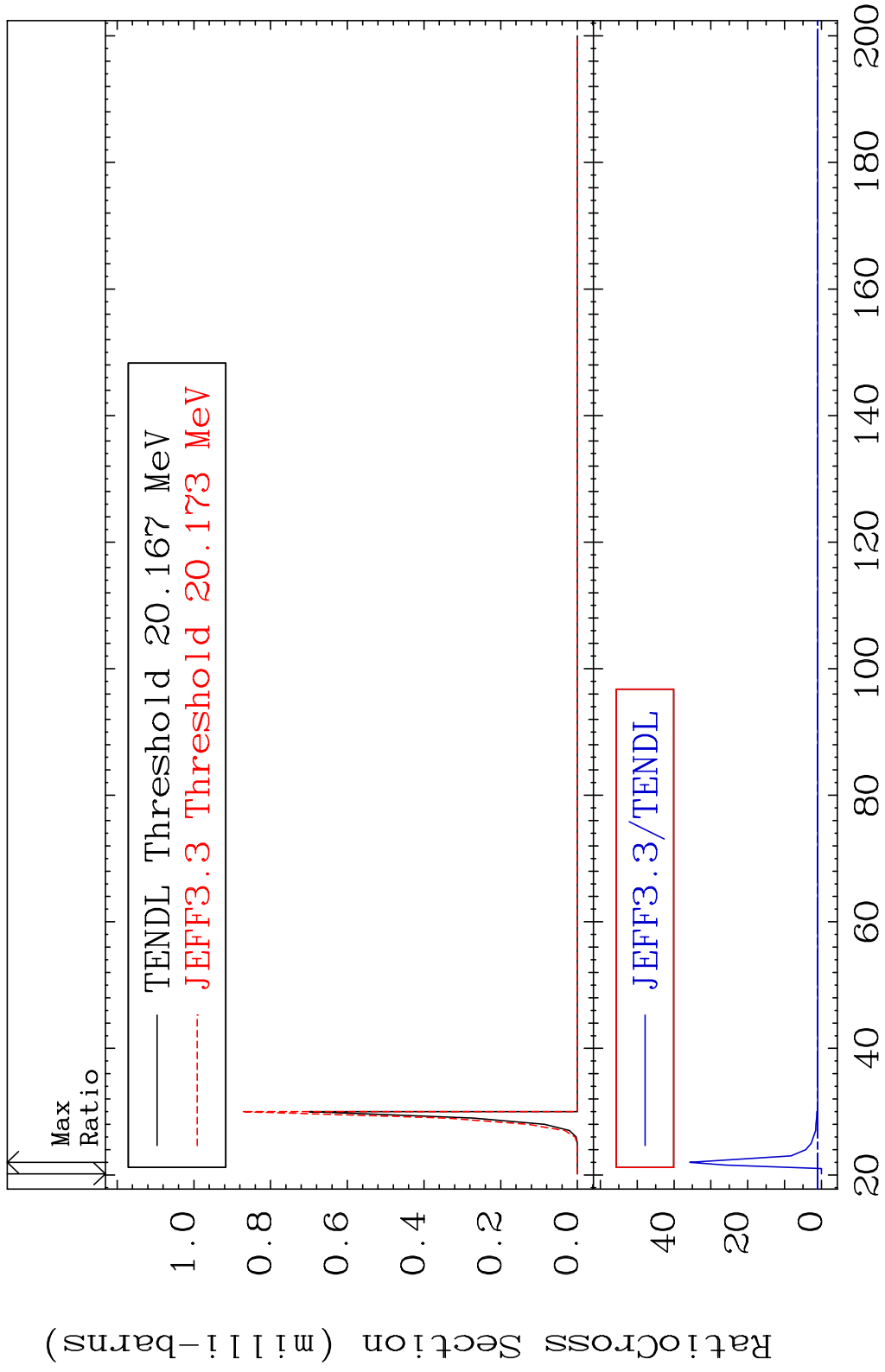


MAT 5731

(n,3n) p

57-La-140

Cross Section -100.0 To 3473. %



17

Incident Energy (MeV)

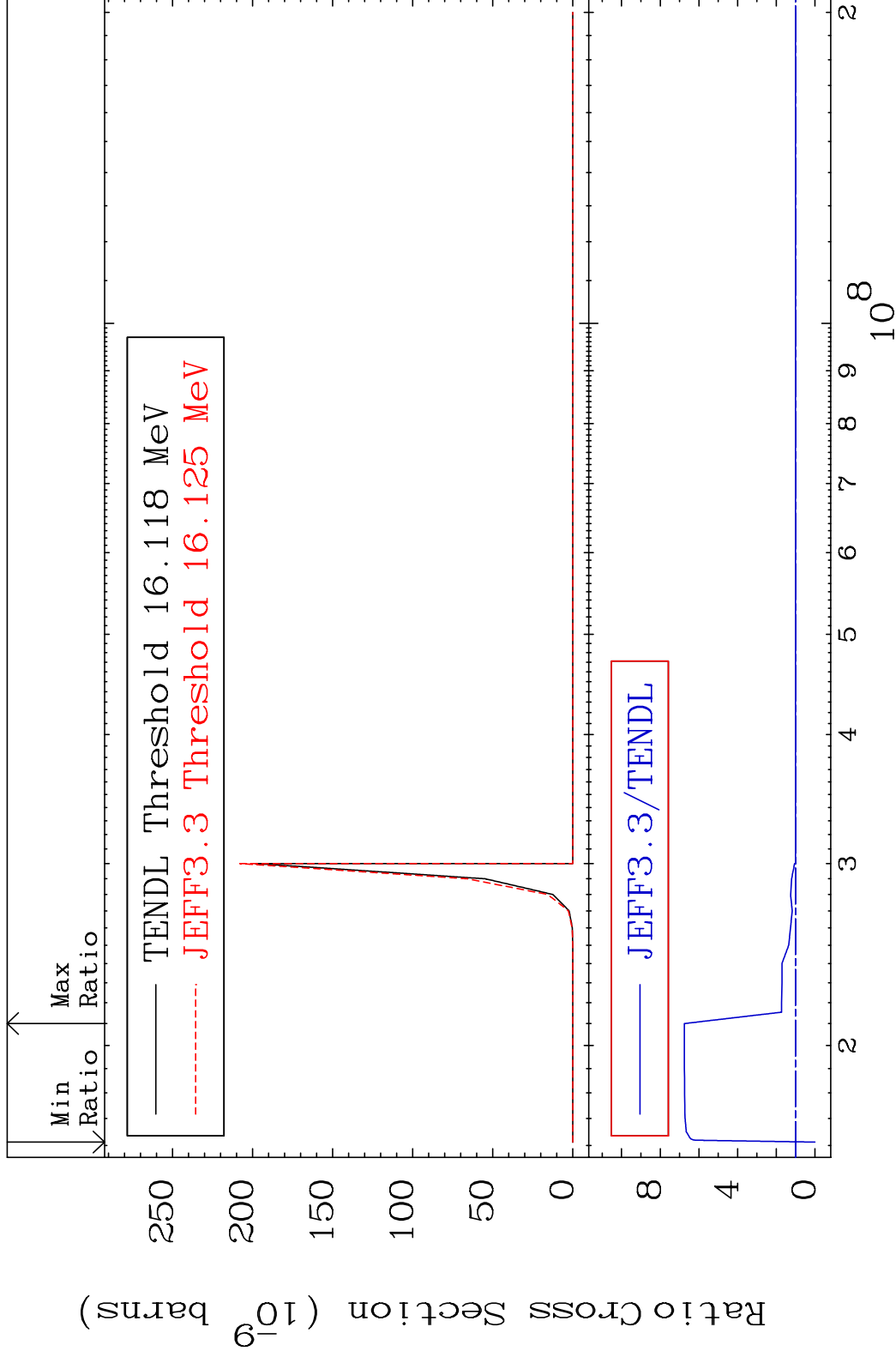
57-La-140

MAT 5731

(n,2n) p

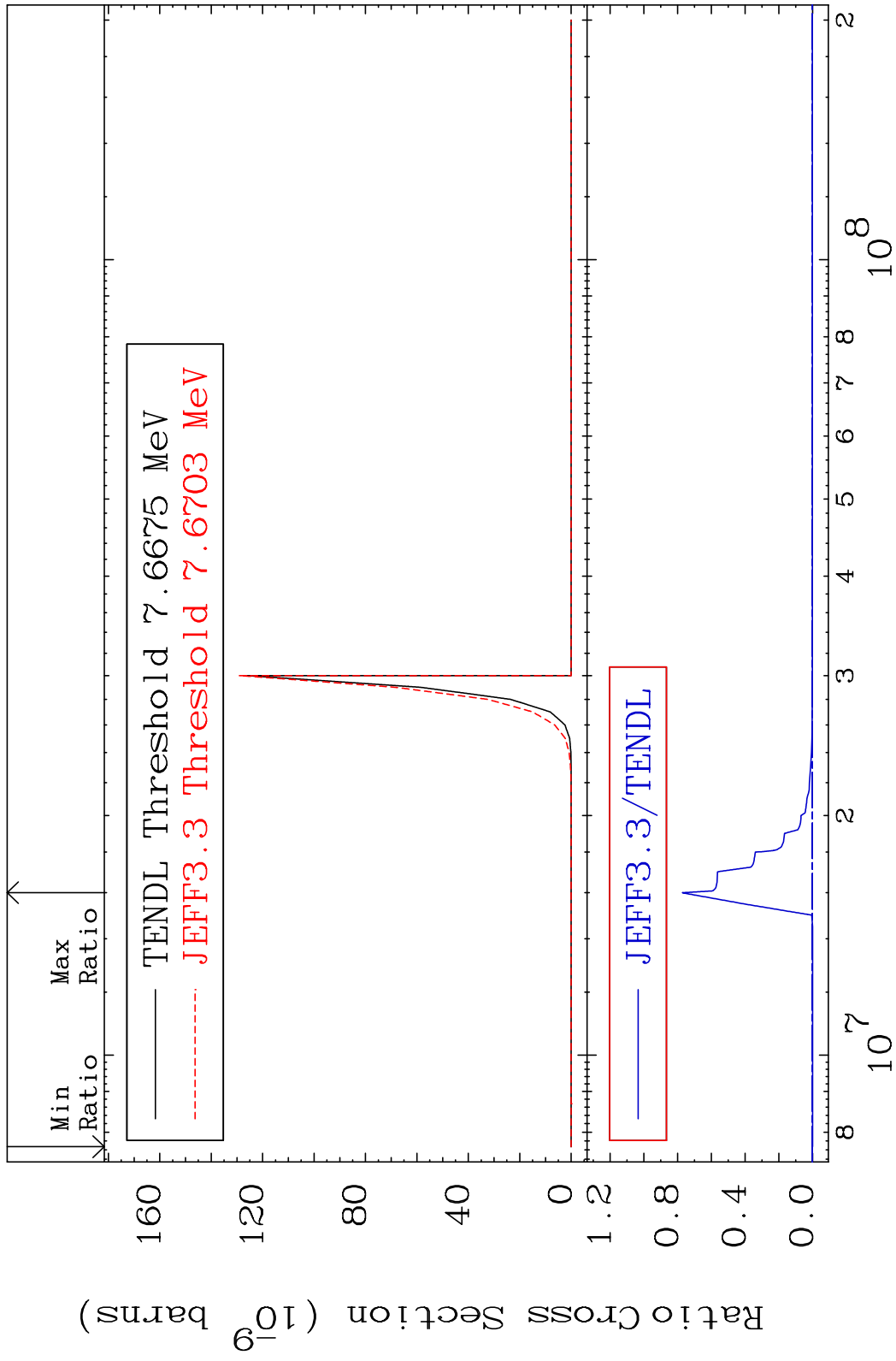
57-La-140

Cross Section -100.0 To 575.4 %

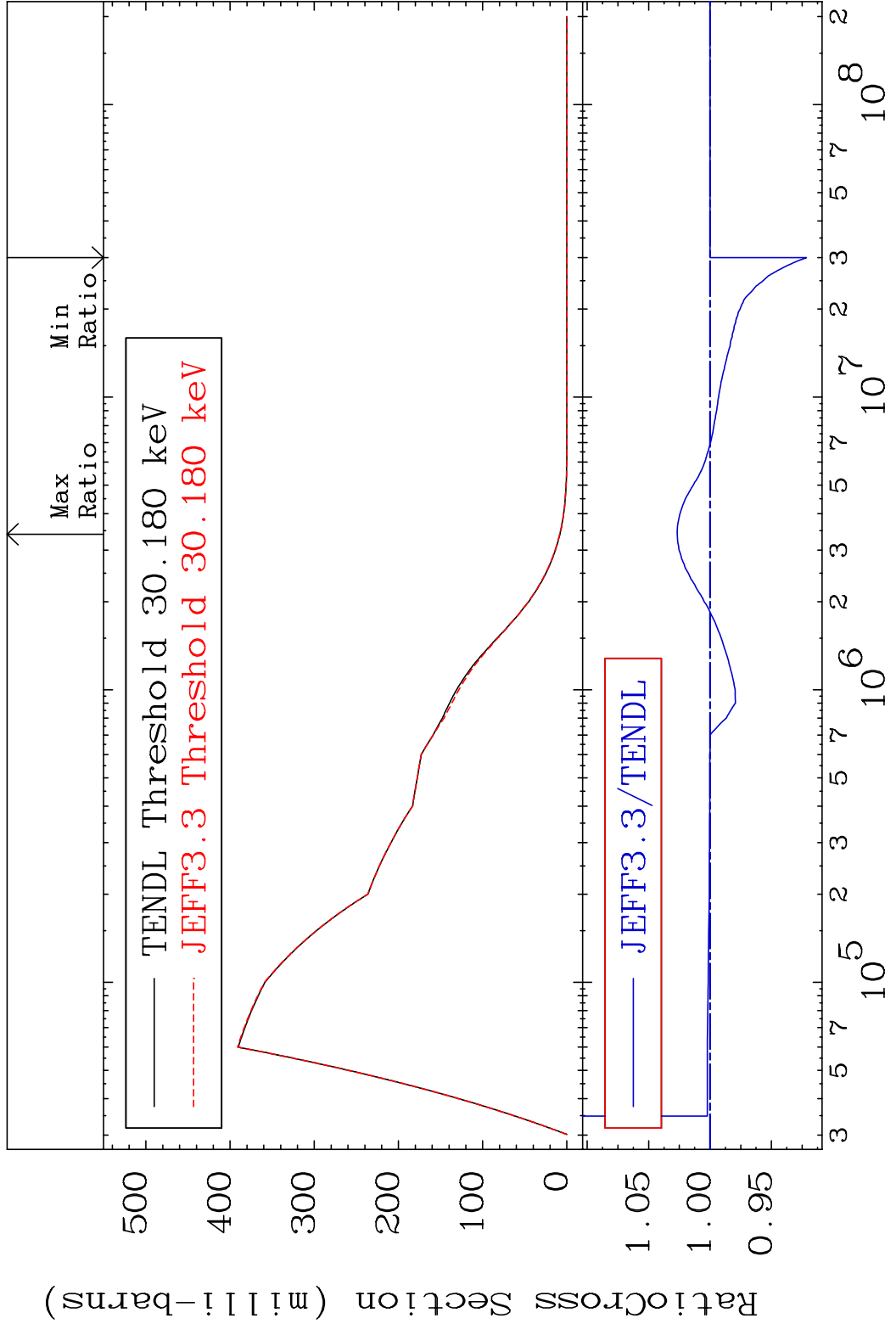


MAT 5731

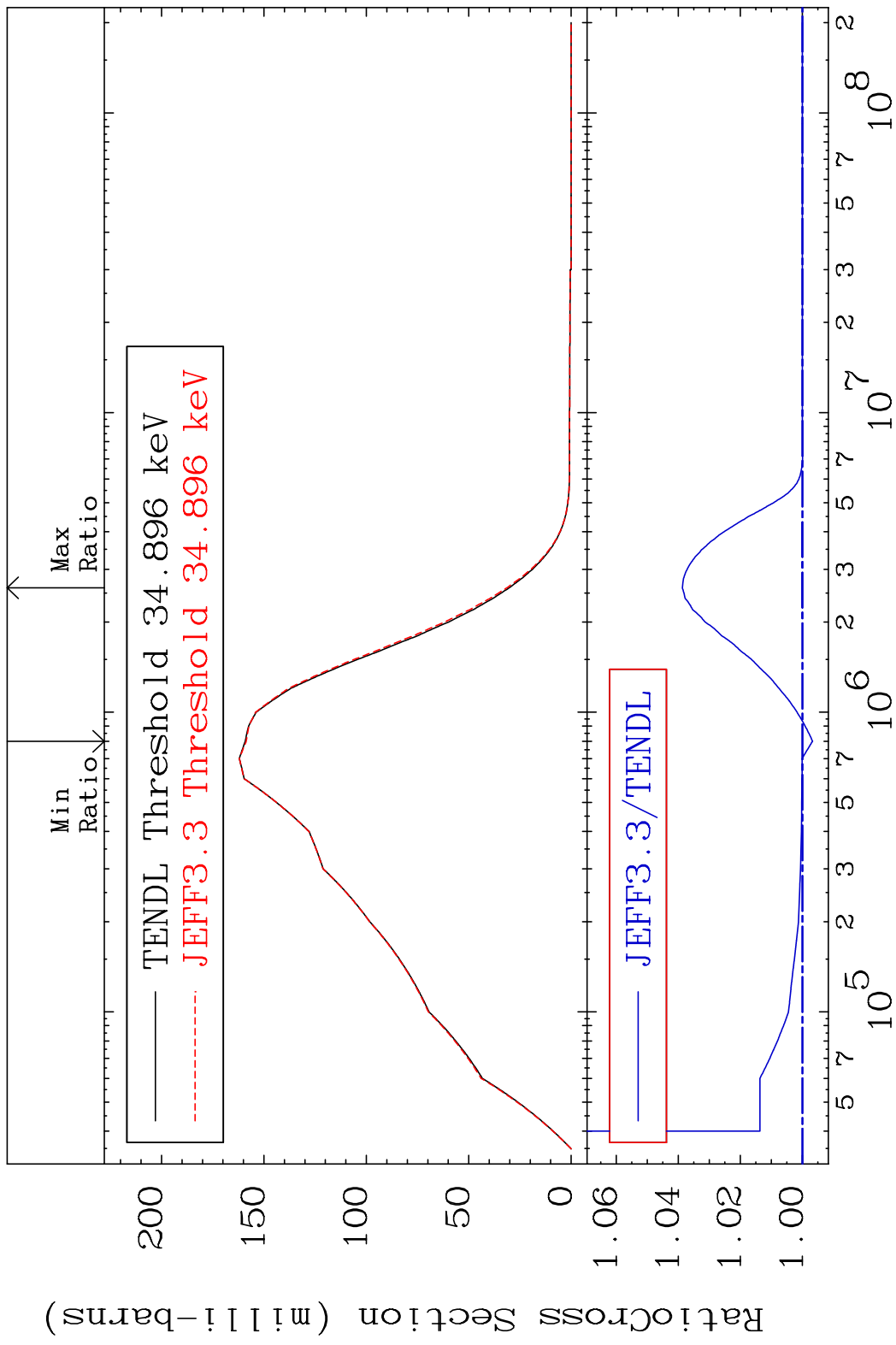
(n,n') p  $\alpha$  57-La-140  
Cross Section -100.0 To 9999. %



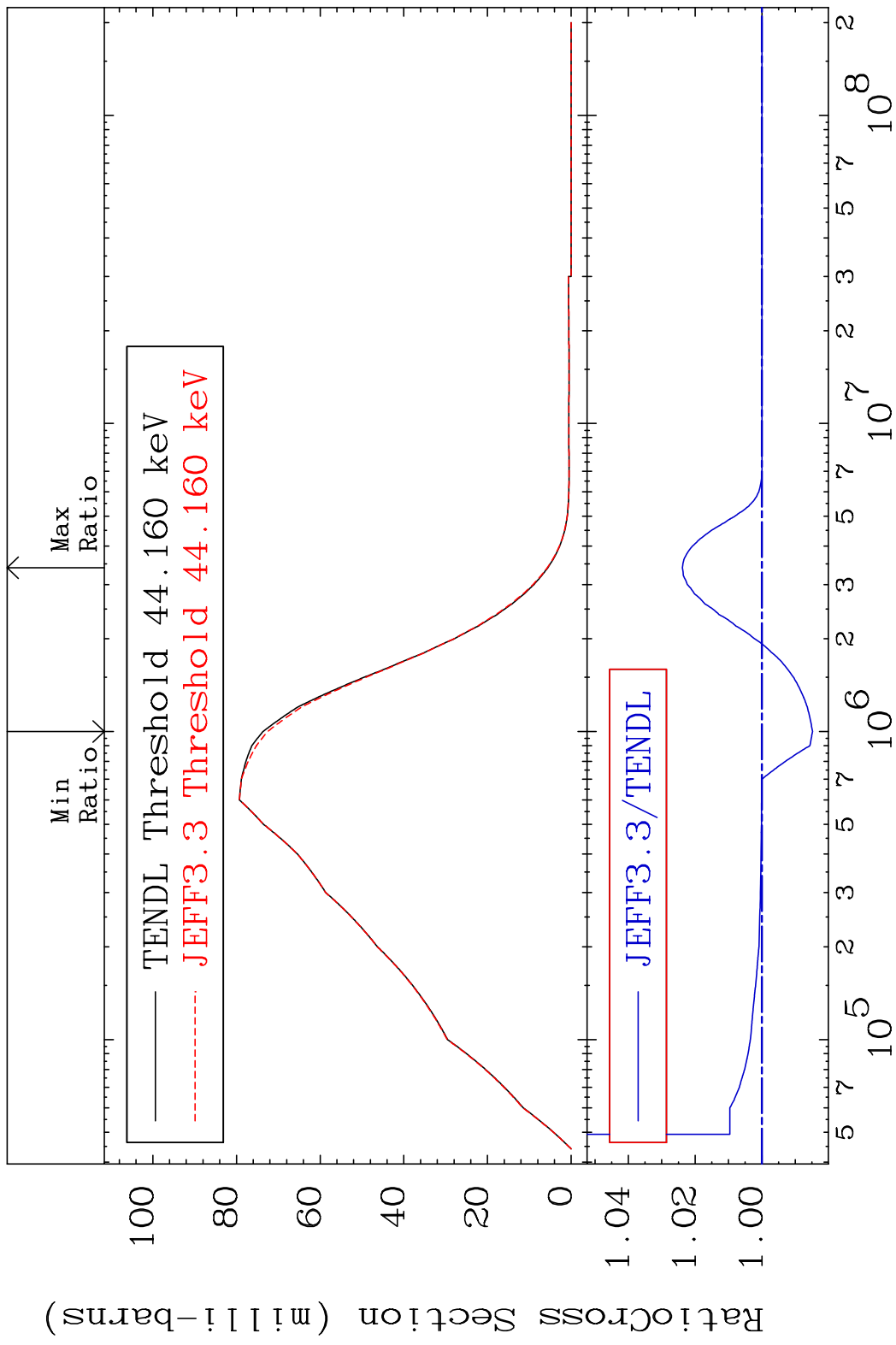
MAT 5731 MT= 51 (n, n') Level 57-La-140  
 Cross Section -7.848 To 2.675 %



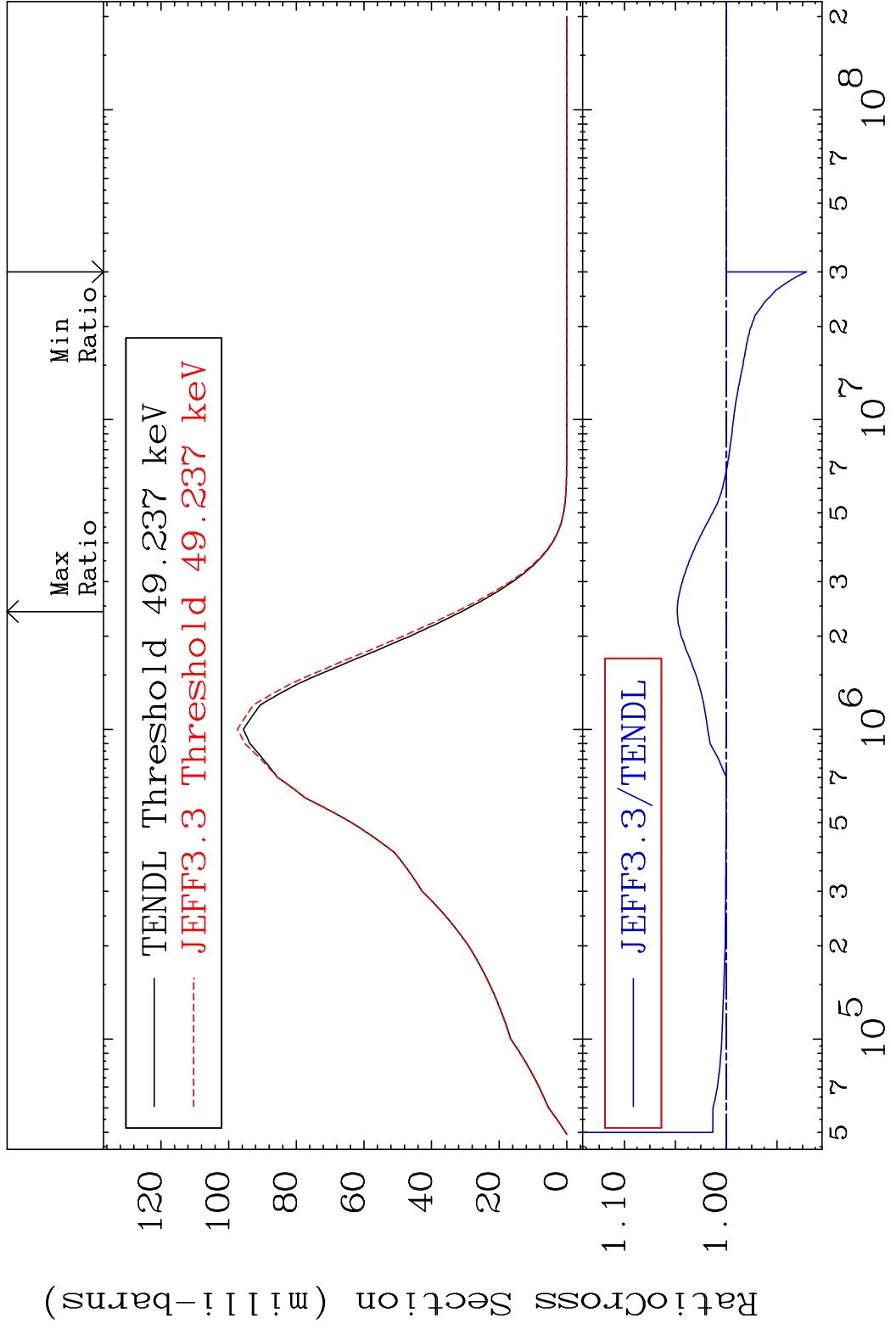
MAT 5731 MT= 52 (n, n') Level 57-La-140  
 Cross Section -0.328 To 3.867 %



MAT 5731 MT= 53 (n, n') Level 57-La-140  
 Cross Section -1.518 To 2.382 %

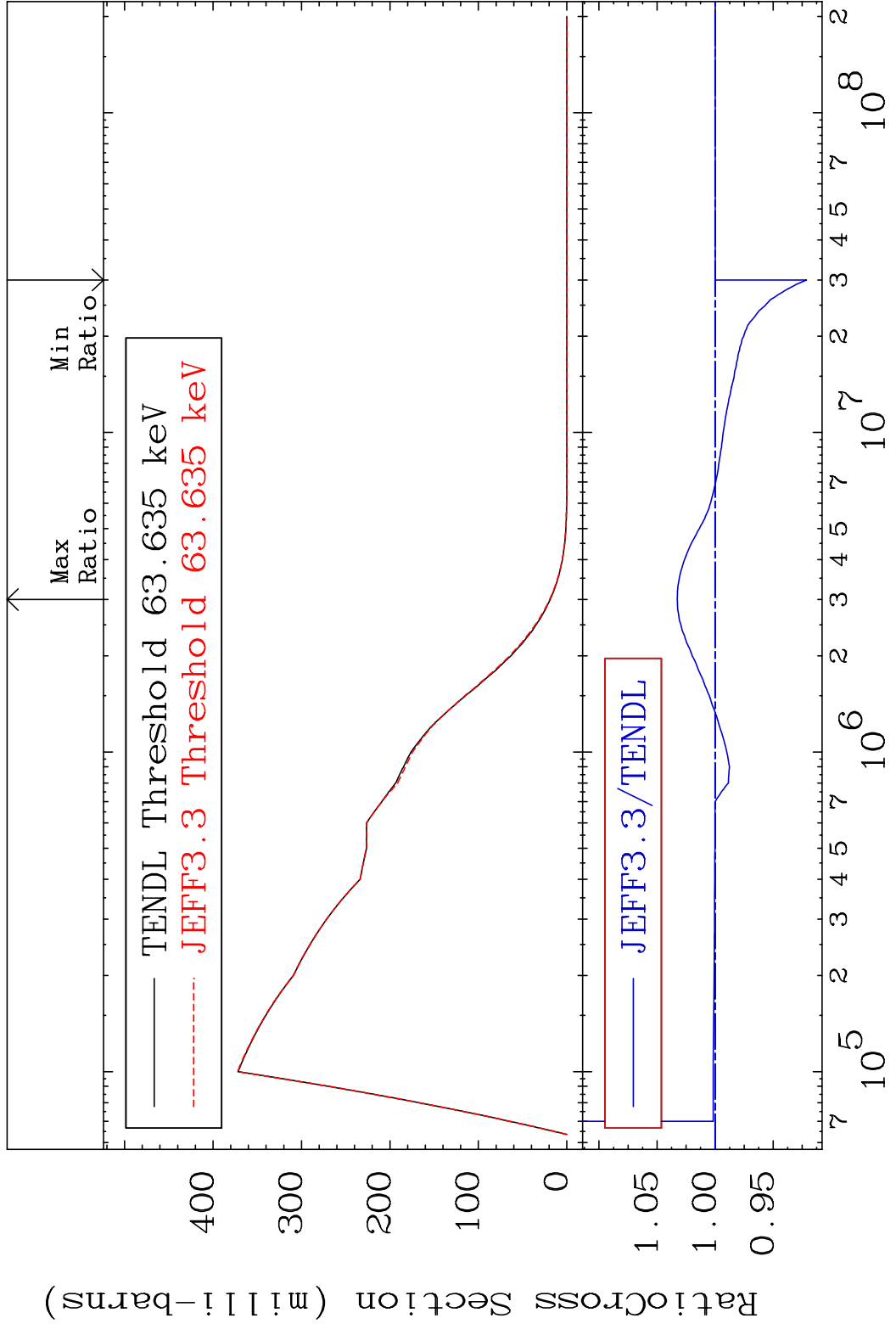


MAT 5731 MT= 54 (n, n') Level 57-La-140  
 Cross Section -7.877 To 4.822 %





MAT 5731 MT= 55 (n, n') Level 57-La-140  
 Cross Section -7.860 To 3.268 %

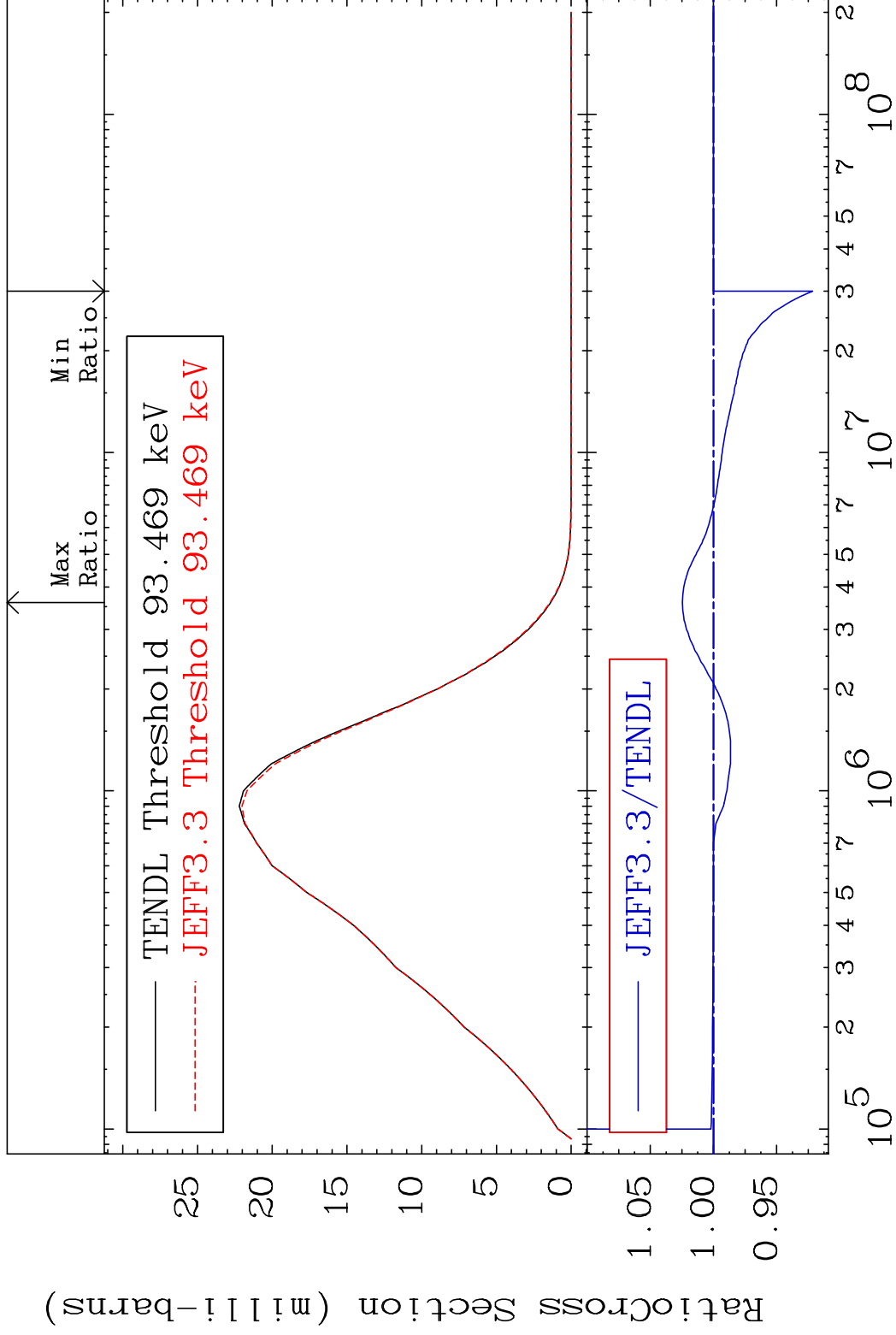


MAT 5731

MT= 56 (n, n') Level

57-La-140

Cross Section -7.842 To 2.463 %



25

Incident Energy (eV)

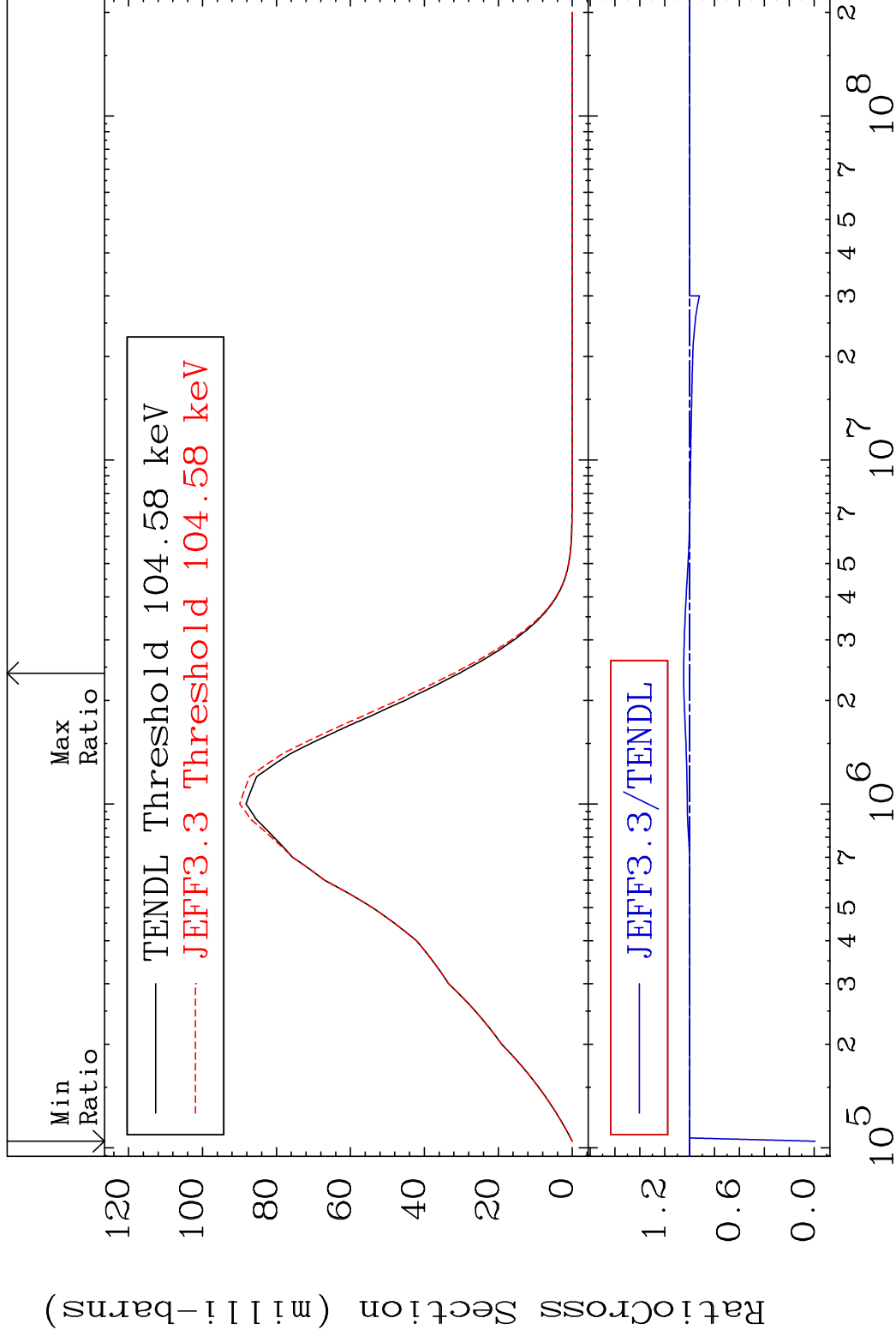
57-La-140

MAT 5731

MT= 57 (n,n') Level

57-La-140

Cross Section -100.0 To 4.837 %

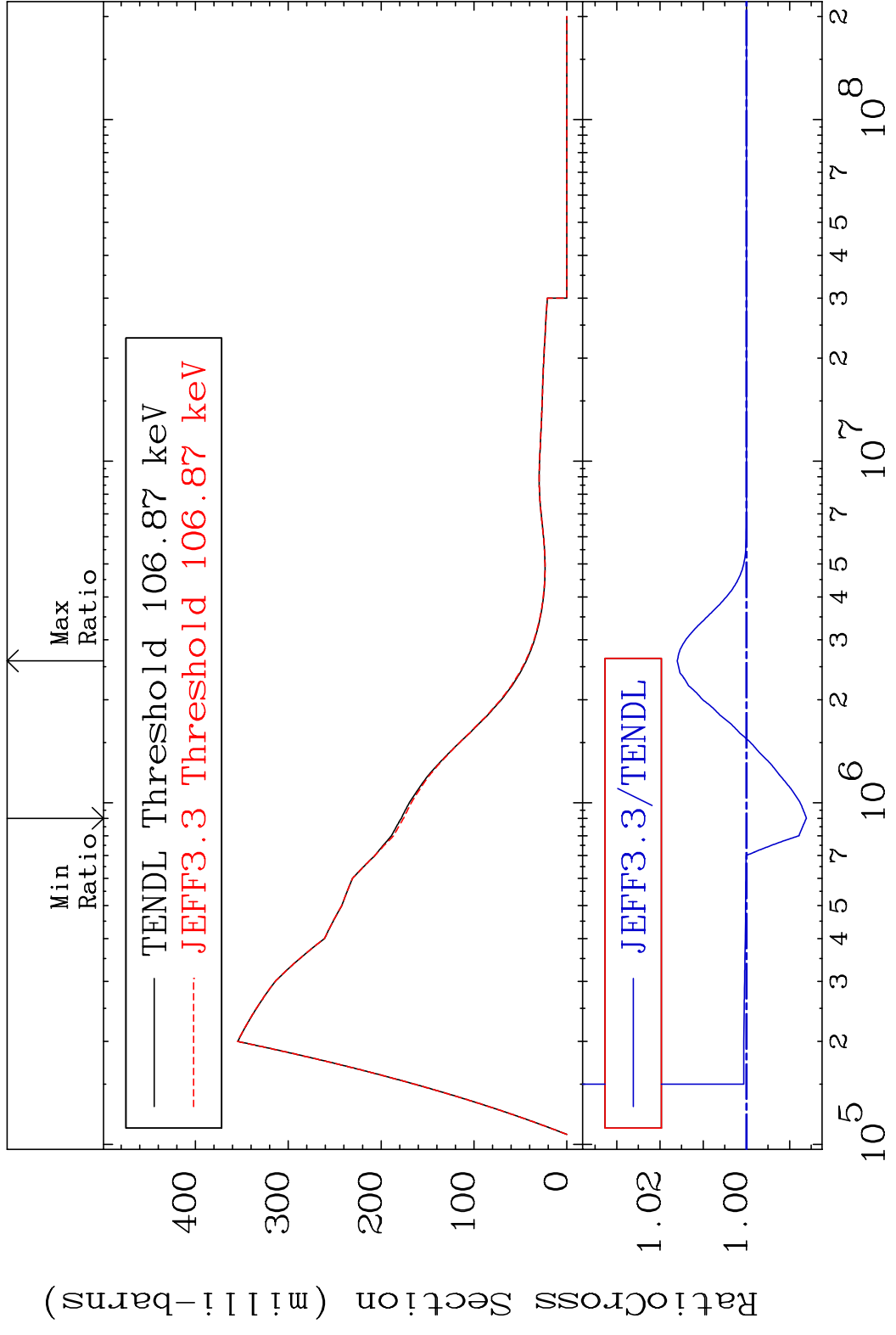


26

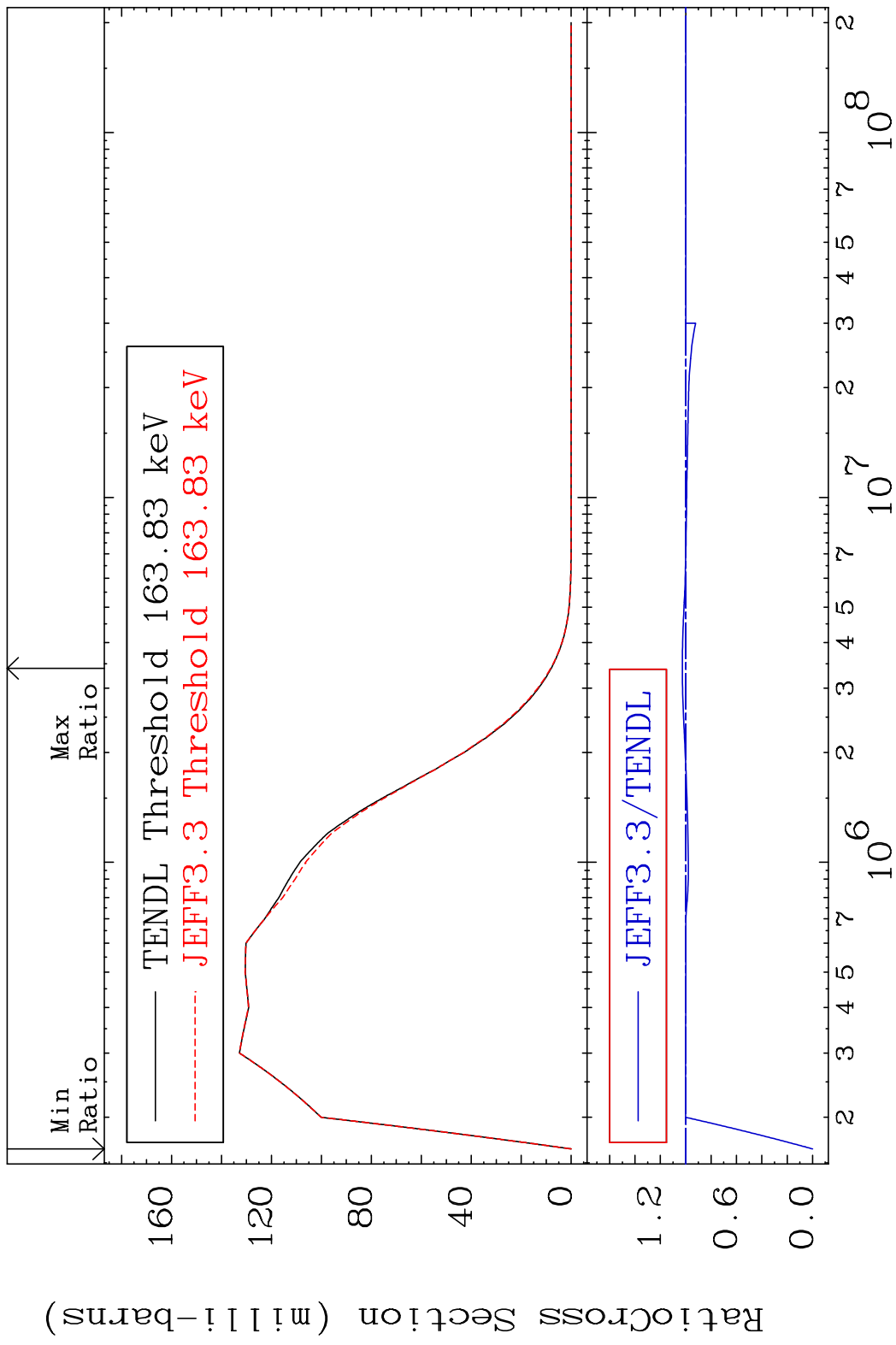
Incident Energy (eV)

57-La-140

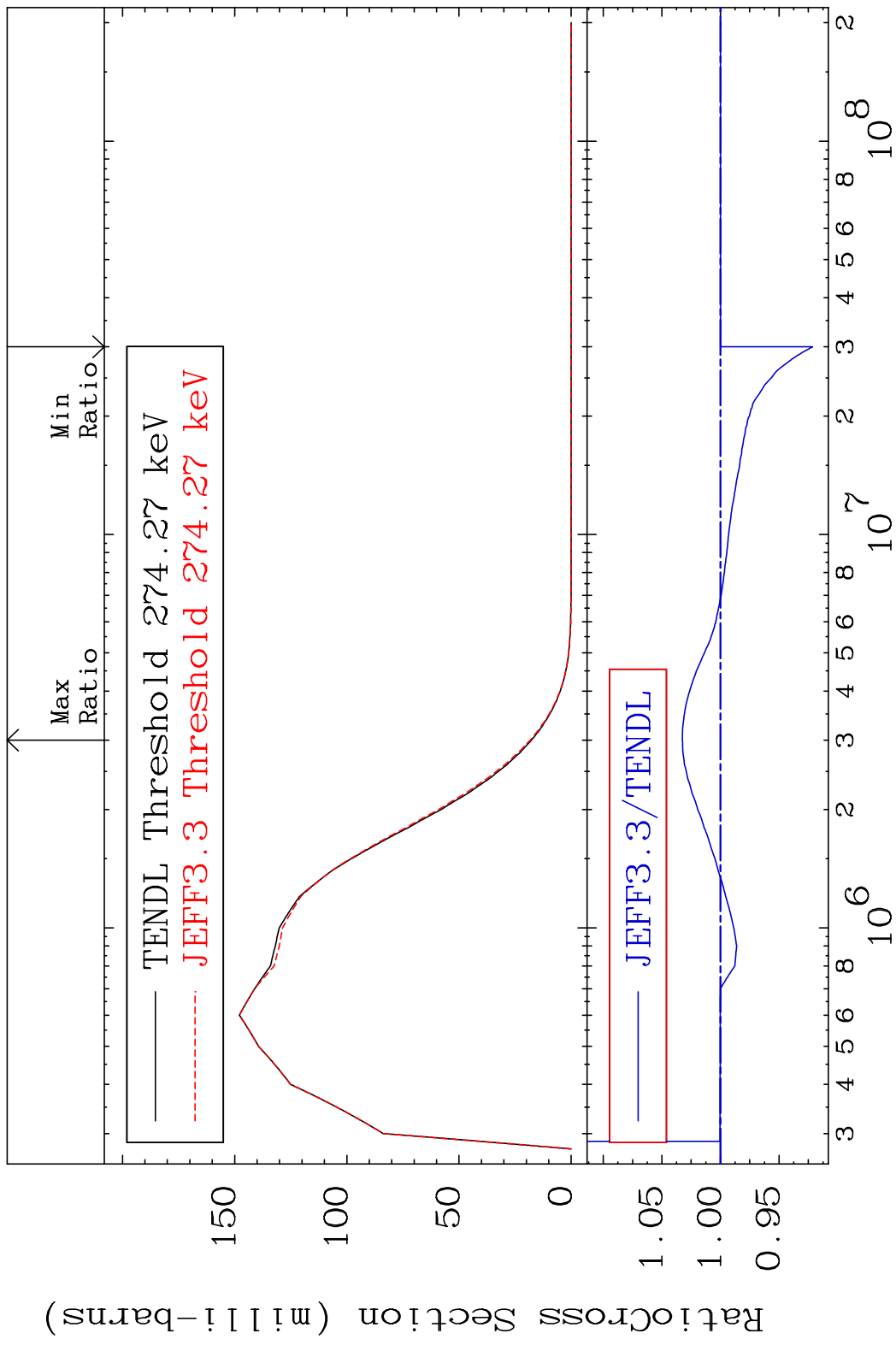
MAT 5731 MT= 58 (n, n') Level 57-La-140  
 Cross Section -1.389 To 1.602 %



MAT 5731 MT= 59 (n, n') Level 57-La-140  
 Cross Section -100.0 To 2.664 %



MAT 5731 MT= 60 (n,n') Level 57-La-140  
 Cross Section -7.859 To 3.252 %

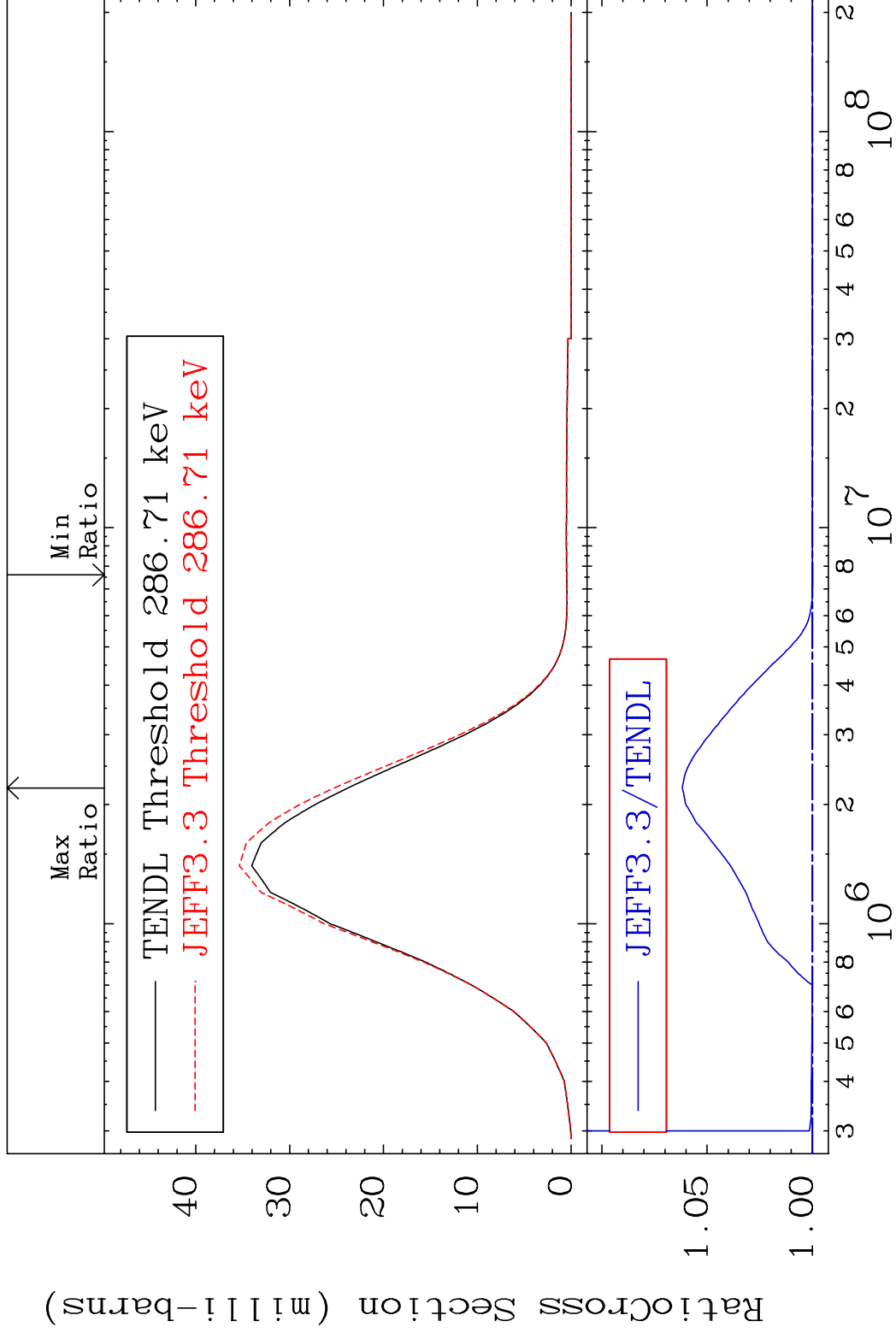


MAT 5731

MT= 61 (n, n') Level

57-La-140

Cross Section -0.011 To 6.175 %



30

Incident Energy (eV)

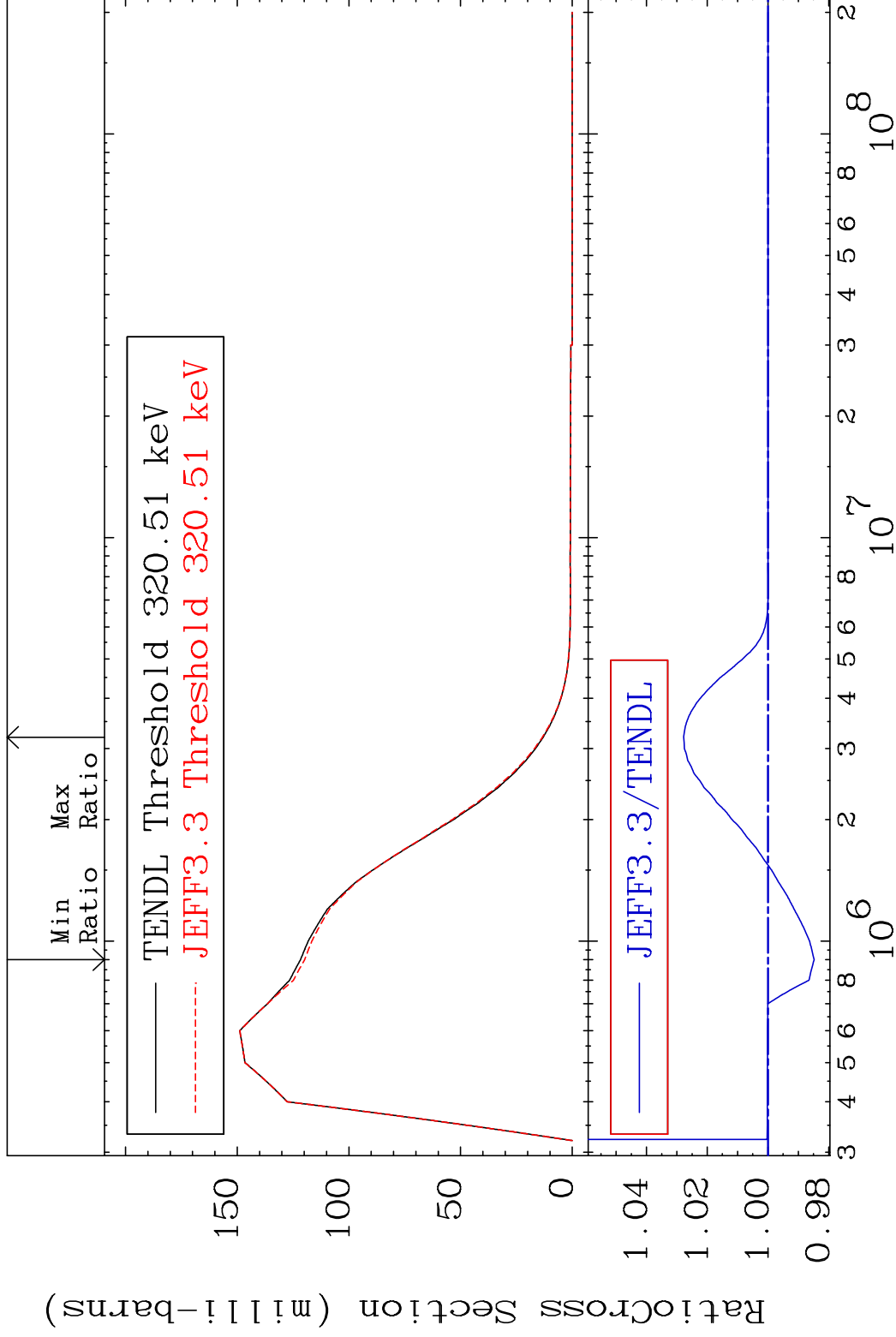
57-La-140

MAT 5731

MT= 62 (n,n') Level

57-La-140

Cross Section -1.519 To 2.776 %



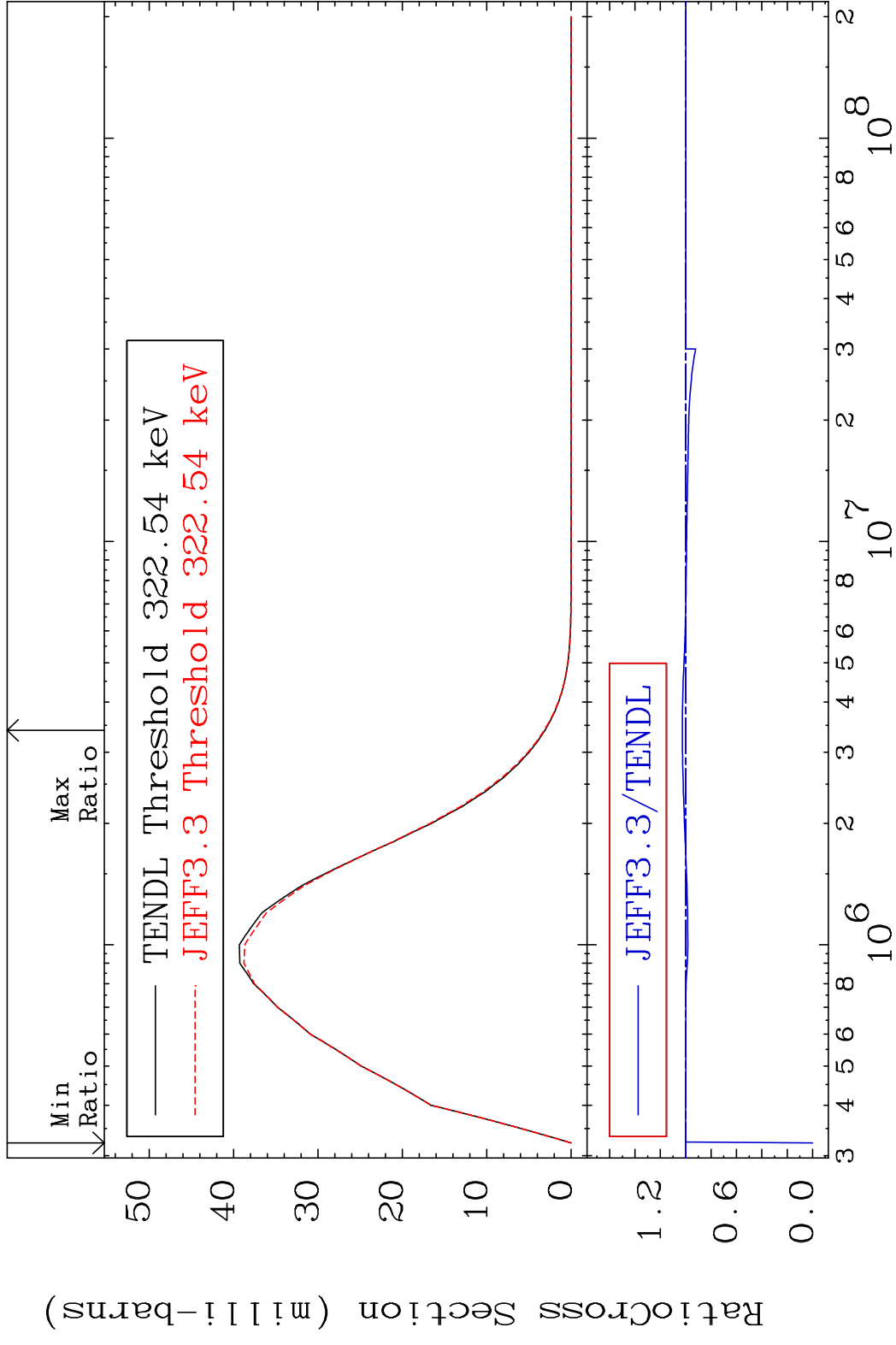
31

Incident Energy (eV)

57-La-140



MAT 5731 MT= 63 (n, n') Level 57-La-140  
 Cross Section -100.0 To 2.655 %

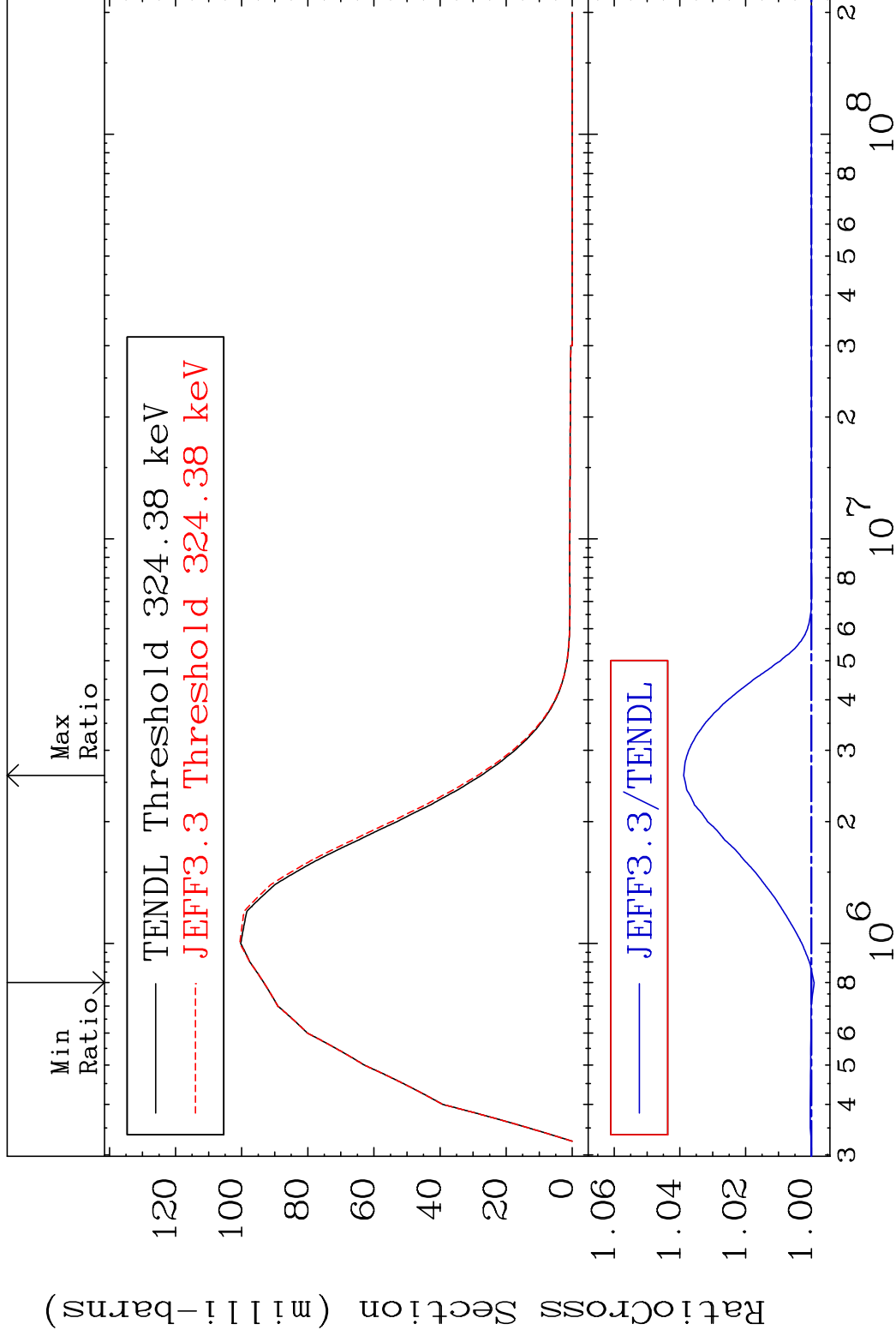


MAT 5731

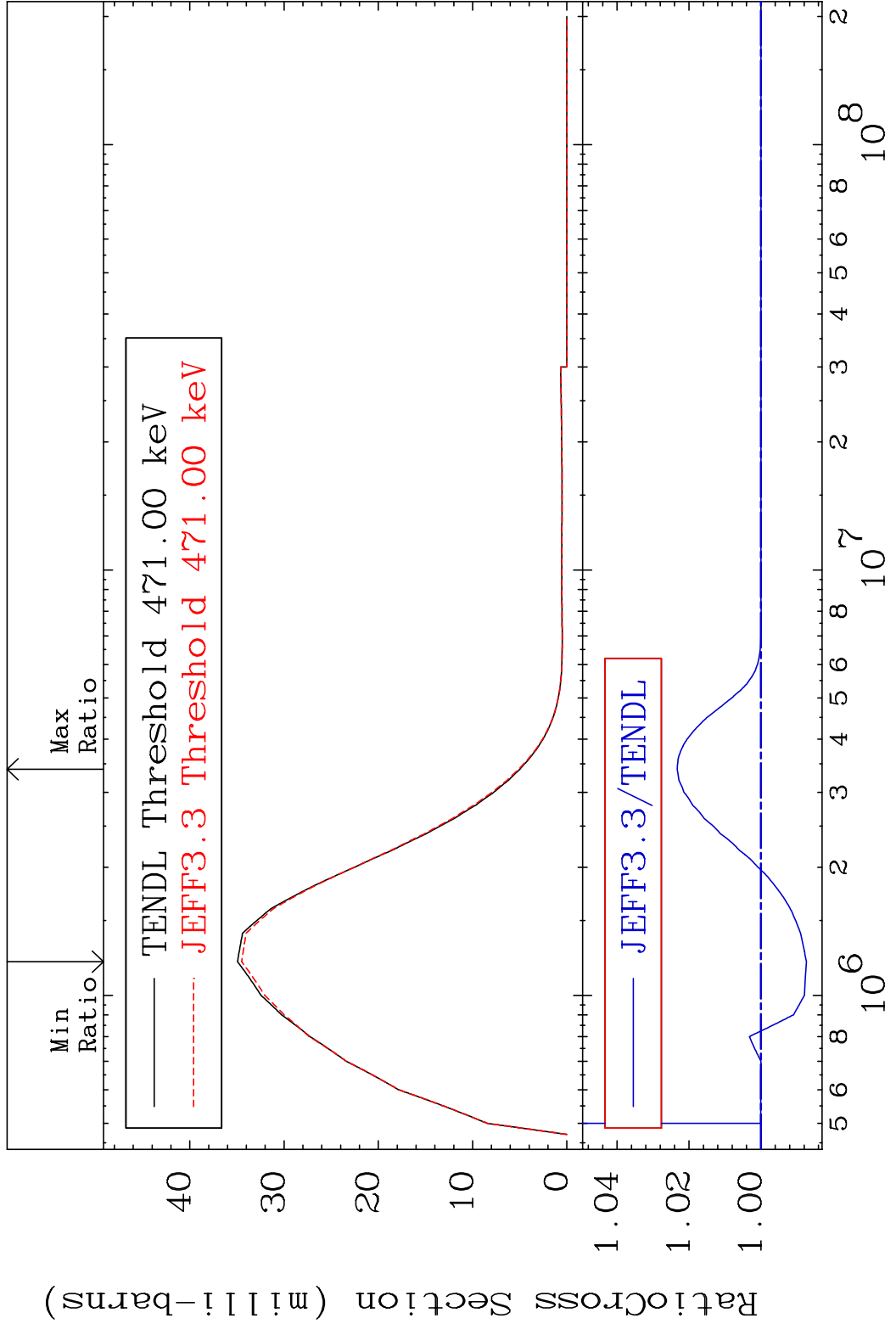
MT= 64 (n, n') Level

57-La-140

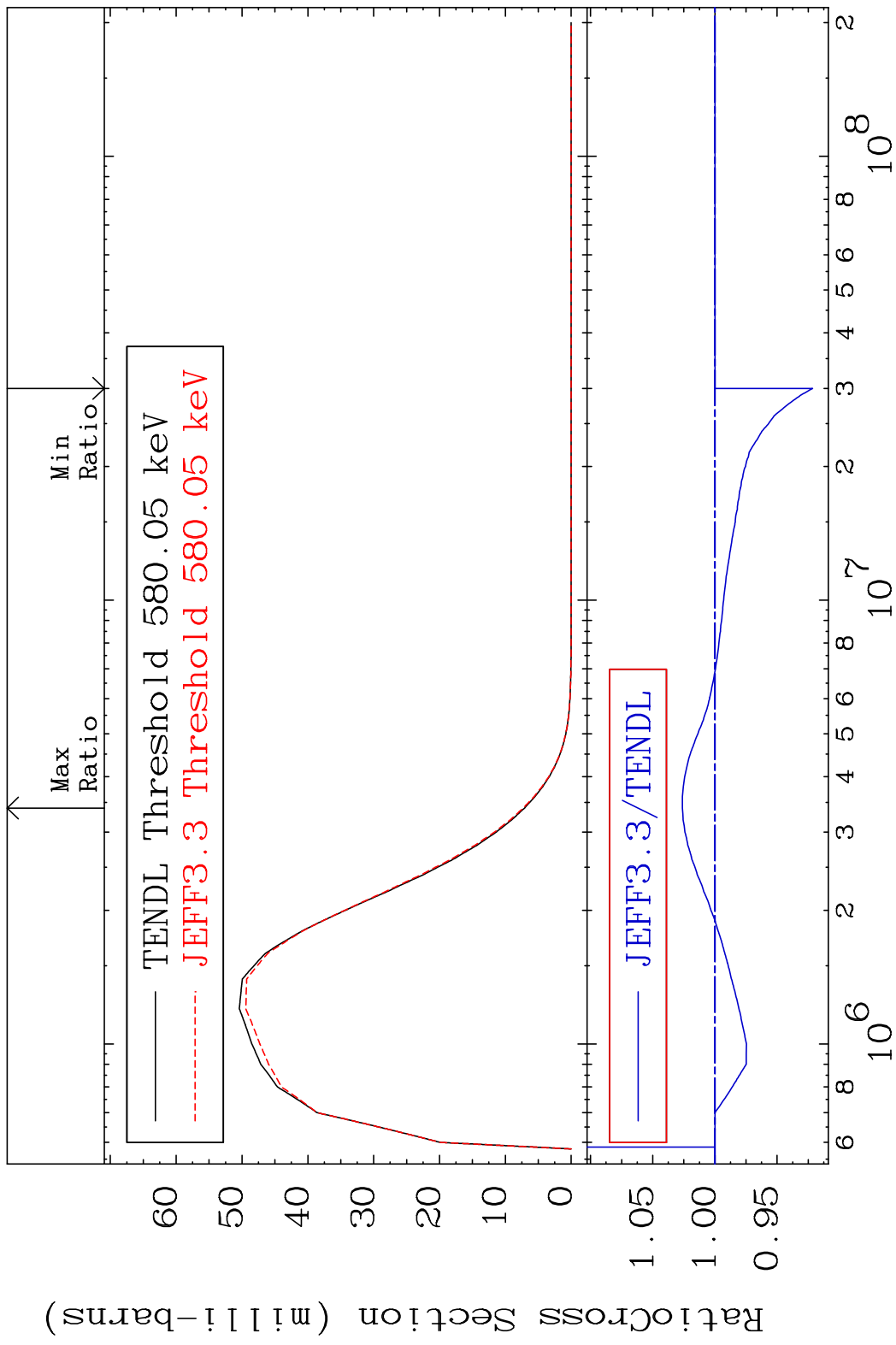
Cross Section -0.085 To 3.886 %



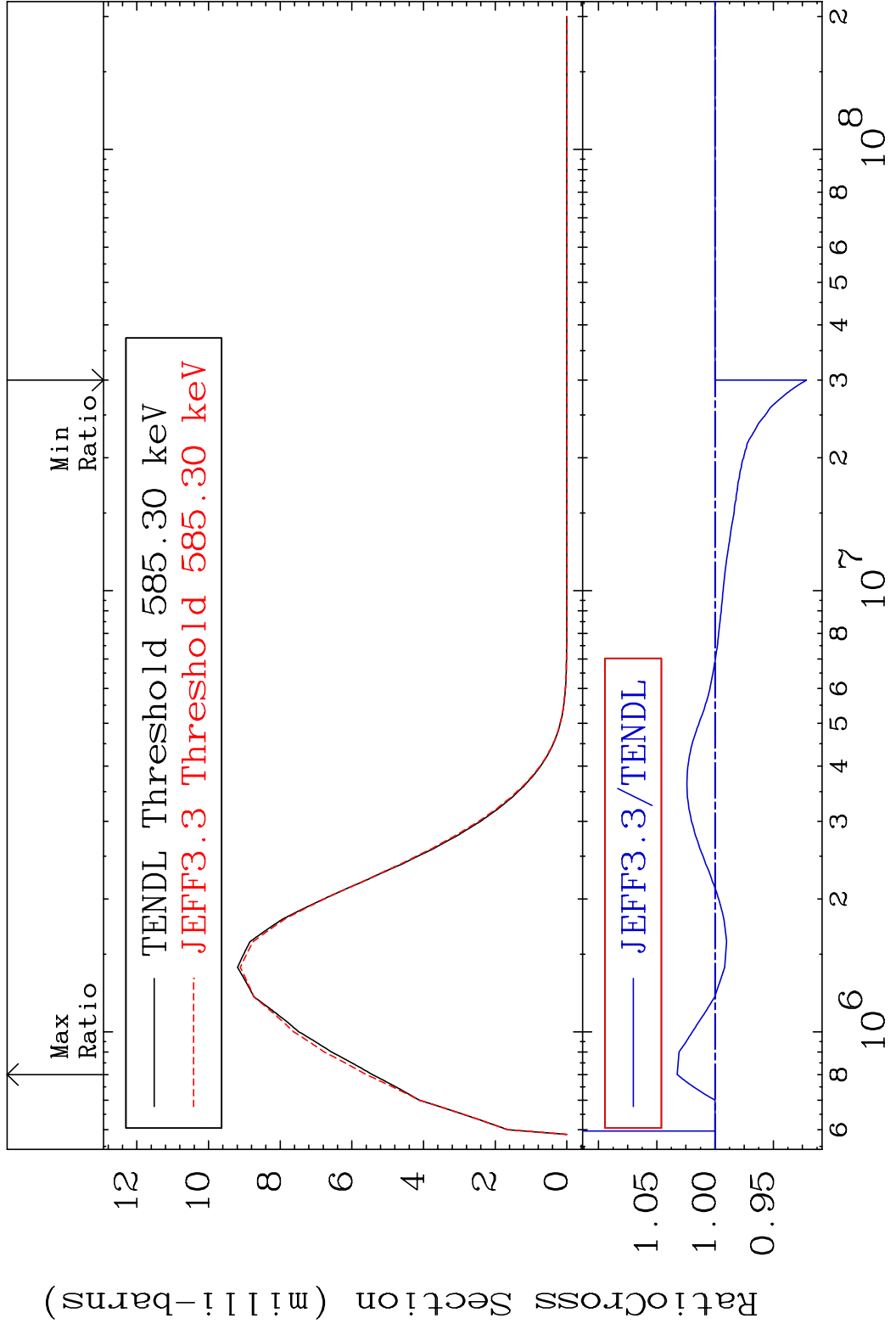
MAT 5731 MT= 65 (n, n') Level 57-La-140  
 Cross Section -1.265 To 2.328 %



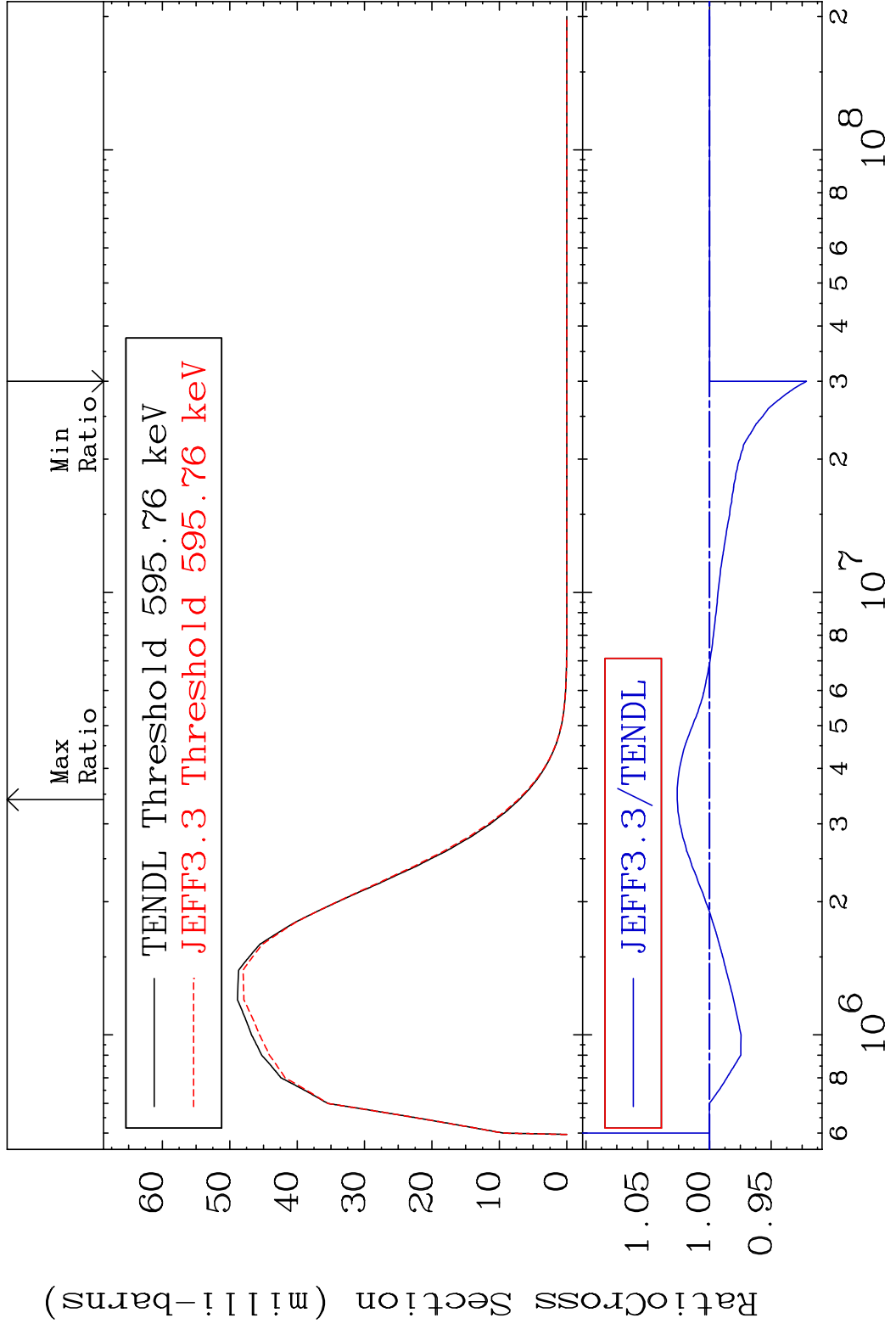
MAT 5731 MT= 66 (n, n') Level 57-La-140  
 Cross Section -7.847 To 2.619 %



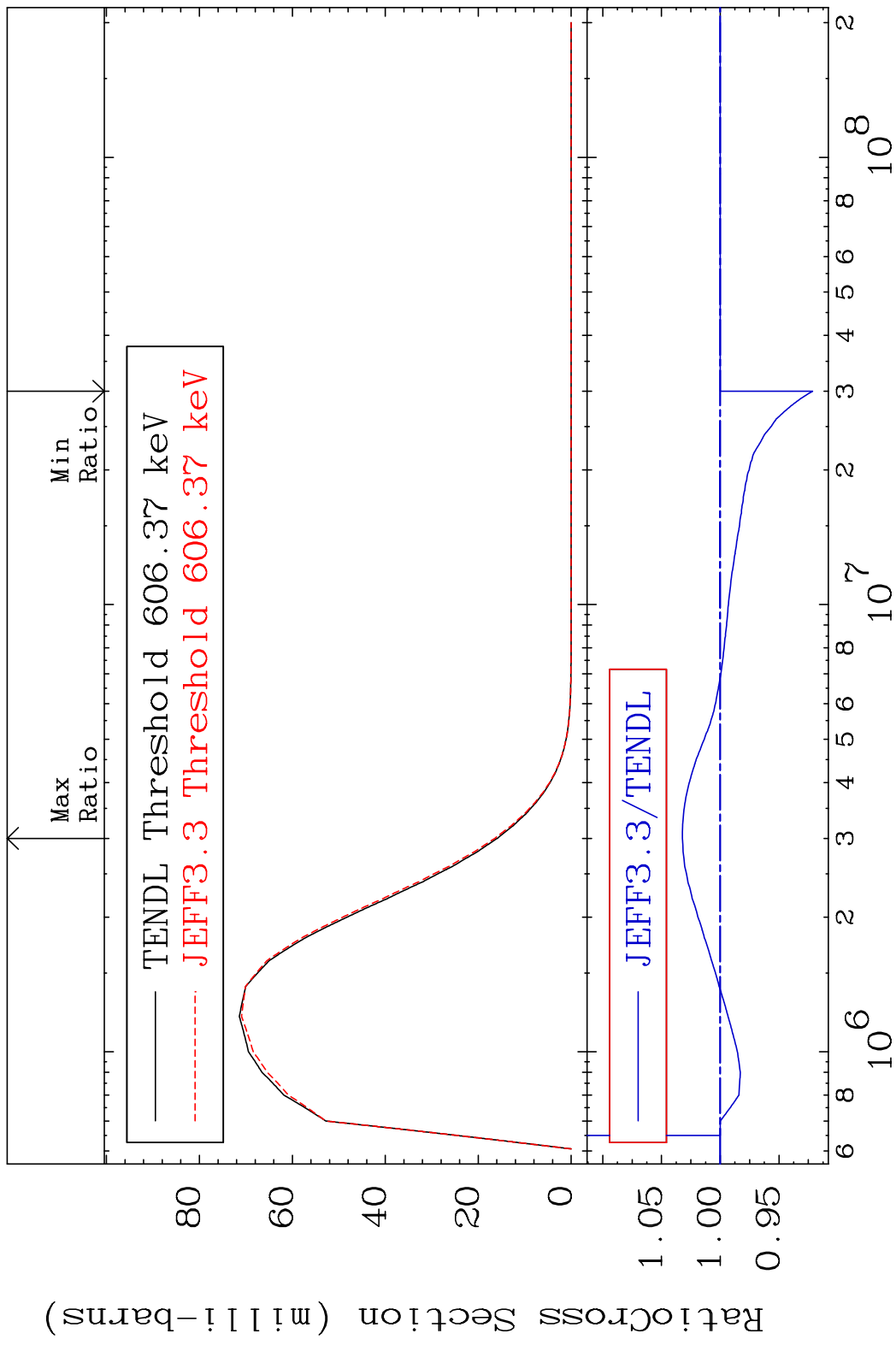
MAT 5731 MT= 67 (n, n') Level 57-La-140  
 Cross Section -7.841 To 3.250 %



MAT 5731 MT= 68 (n, n') Level 57-La-140  
 Cross Section -7.847 To 2.617 %



MAT 5731 MT= 69 (n, n') Level 57-La-140  
 Cross Section -7.859 To 3.223 %

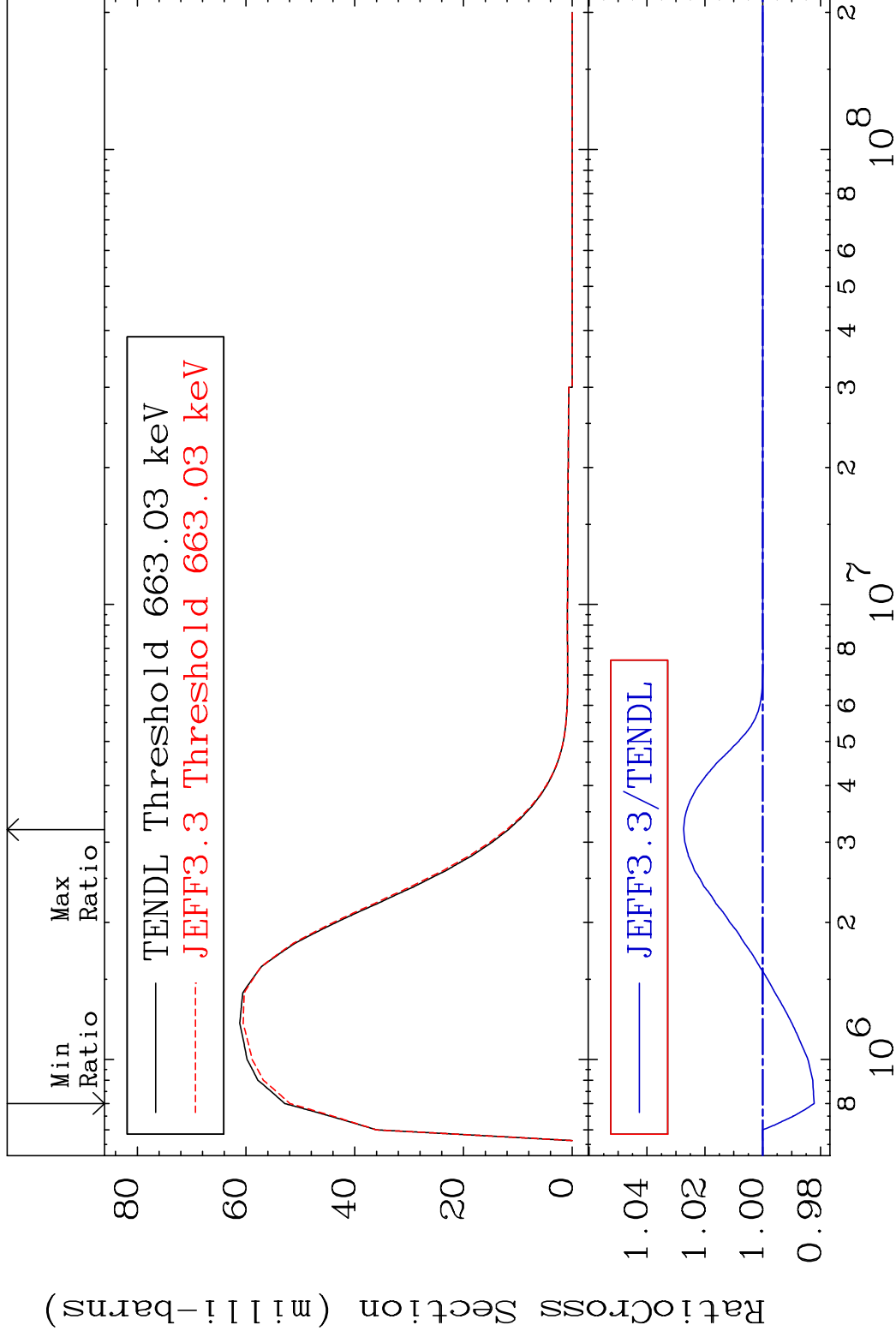


MAT 5731

MT= 70 (n,n') Level

57-La-140

Cross Section -1.776 To 2.733 %



39

Incident Energy (eV)

57-La-140

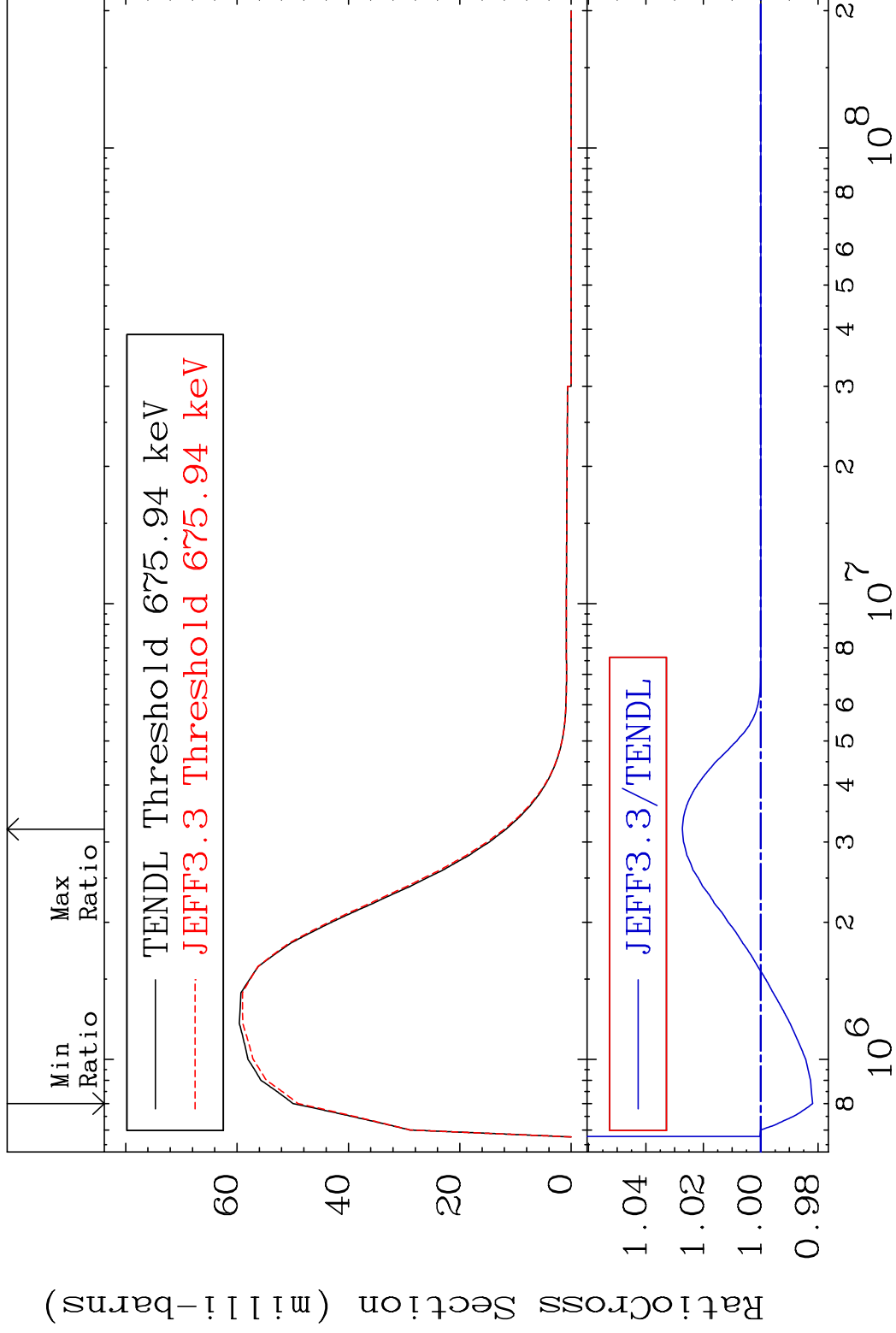


MAT 5731

MT= 71 (n,n') Level

57-La-140

Cross Section -1.805 To 2.731 %

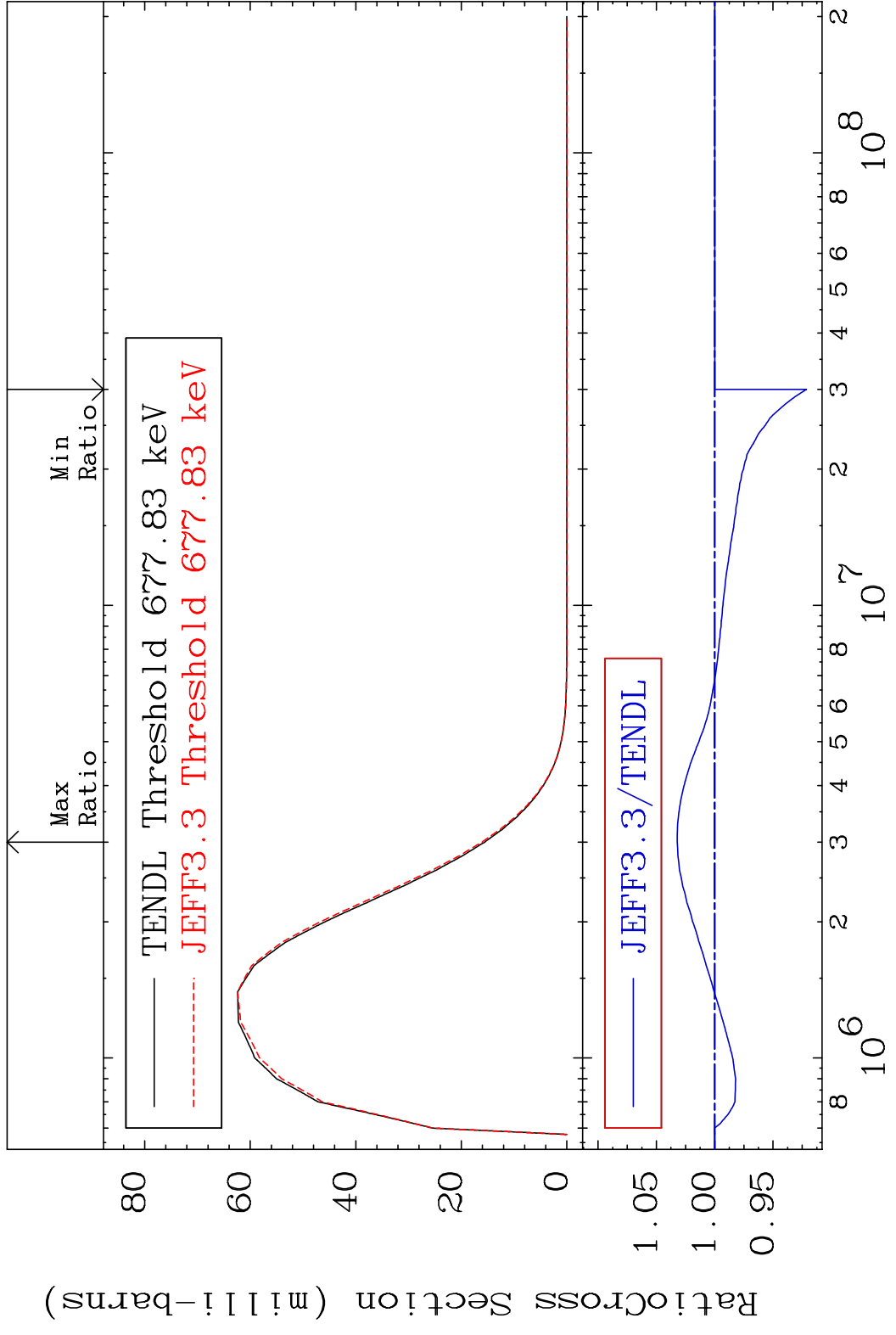


40

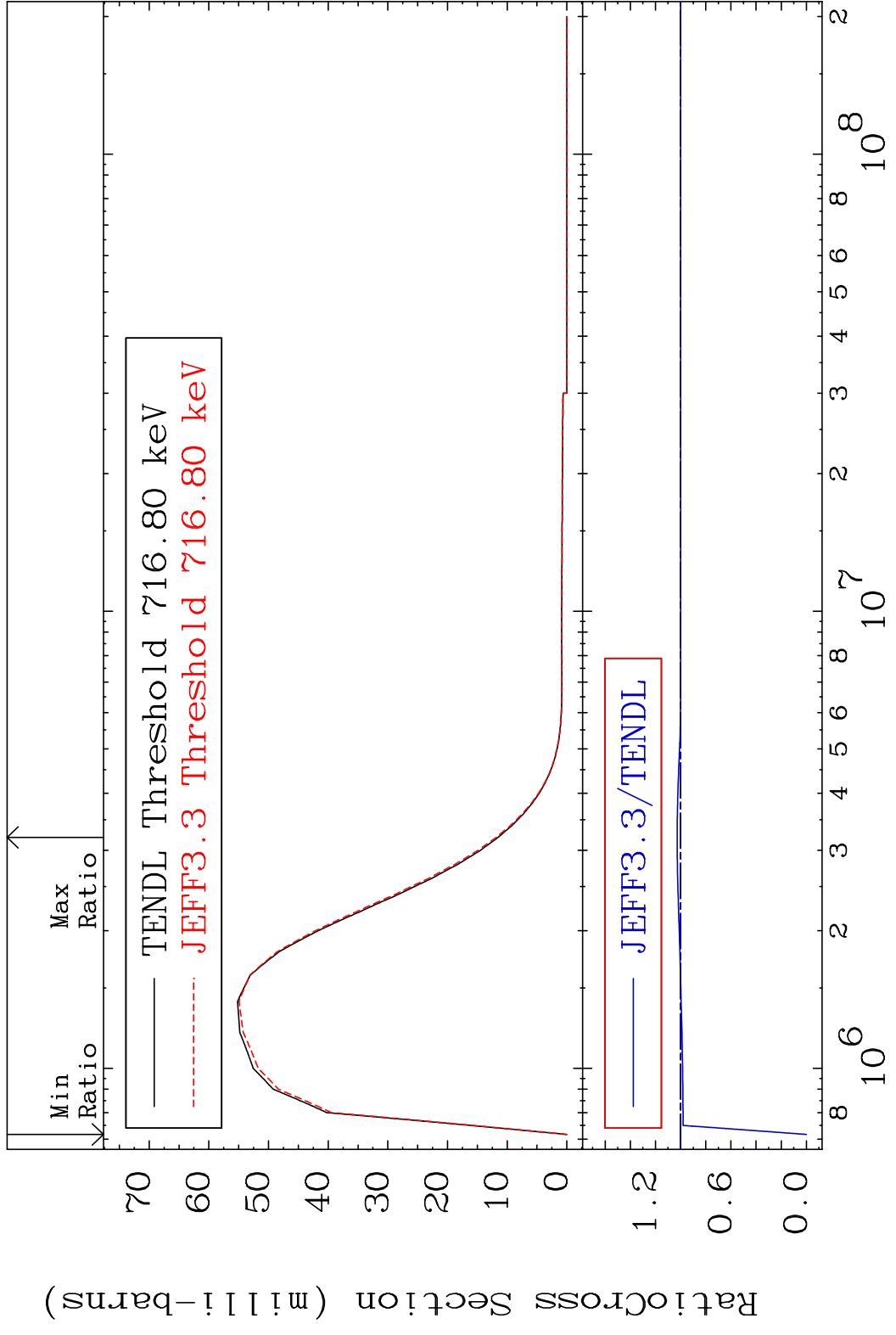
Incident Energy (eV)

57-La-140

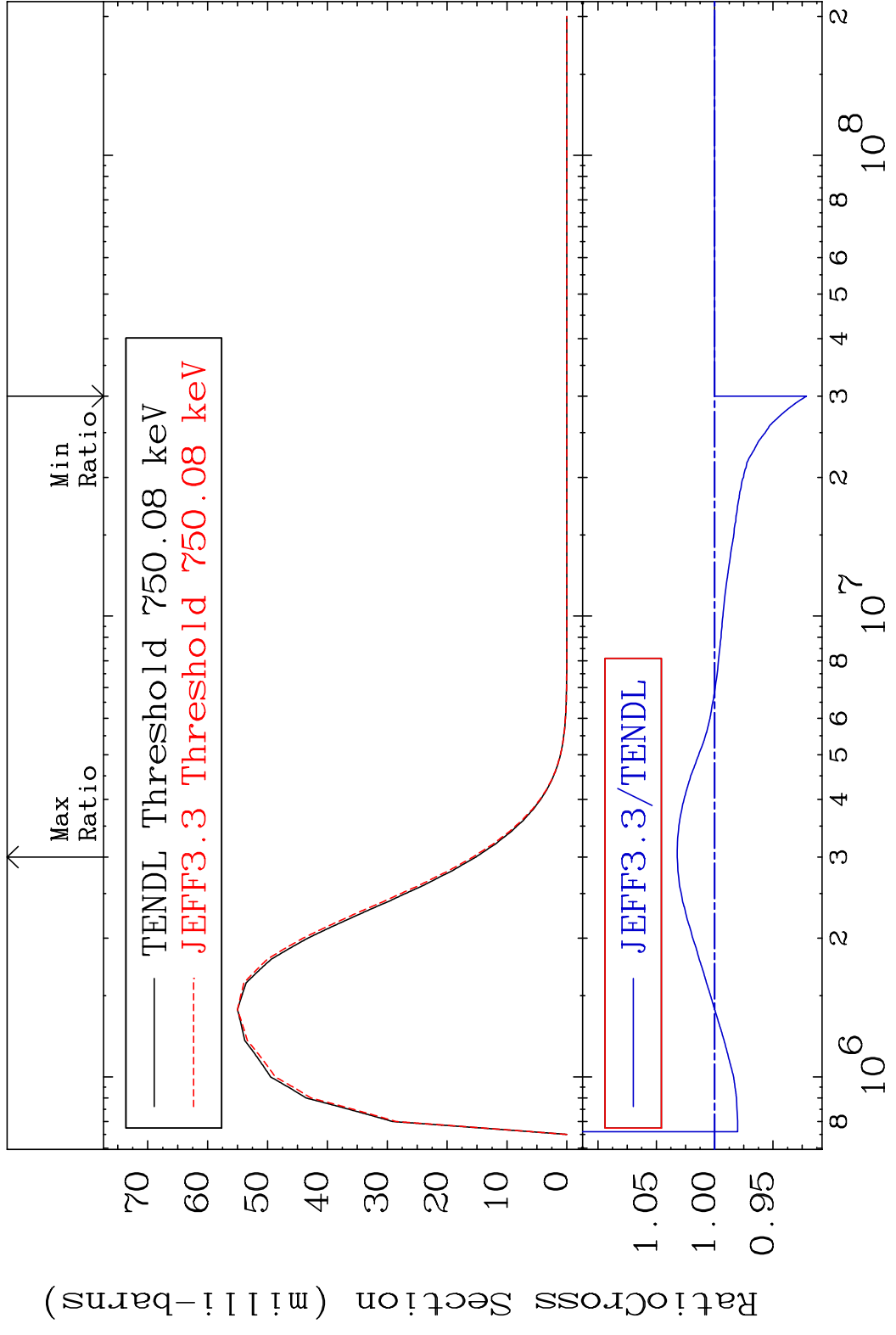
MAT 5731 MT= 72 (n,n') Level 57-La-140  
 Cross Section -7.858 To 3.218 %



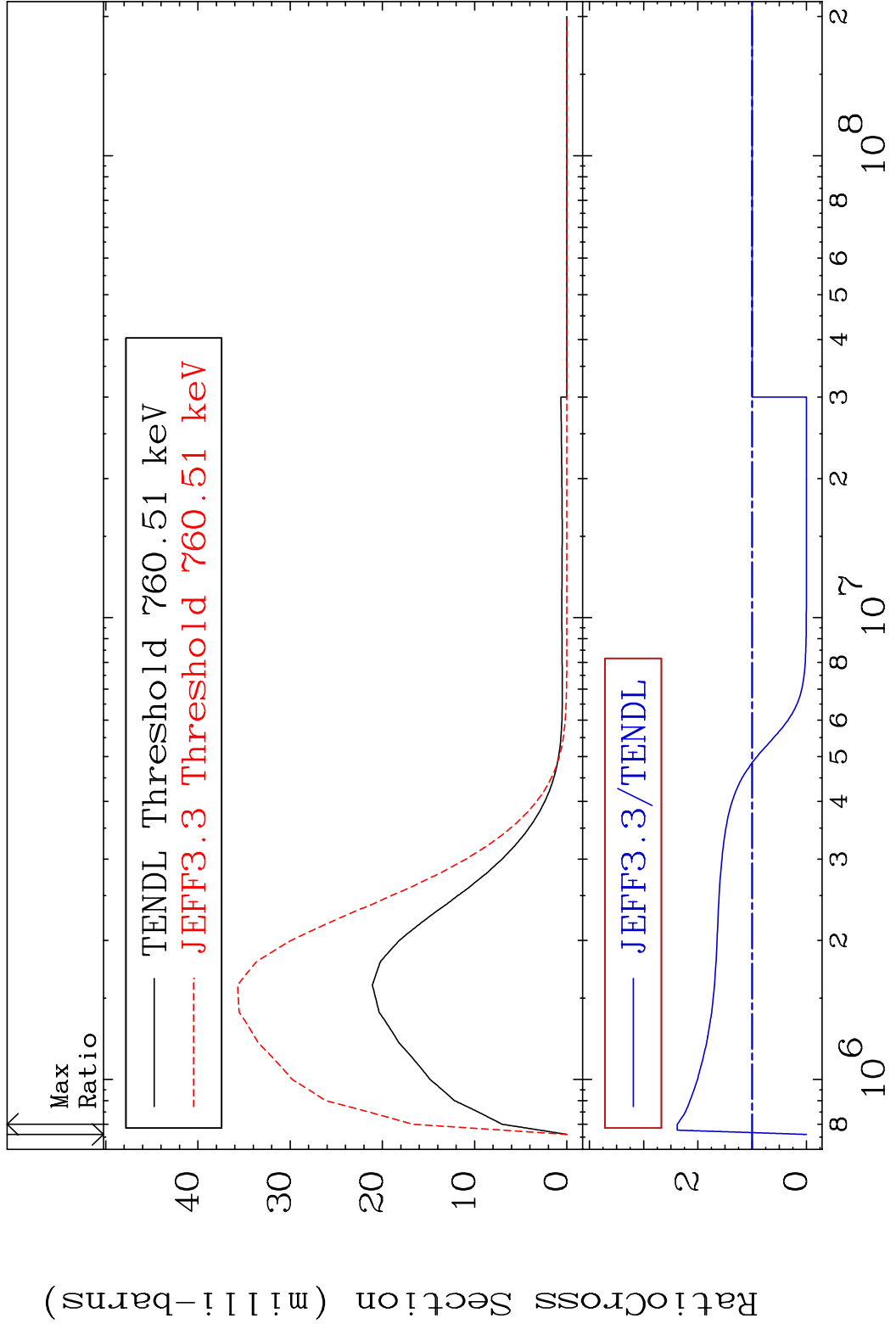
MAT 5731 MT= 73 (n, n') Level 57-La-140  
 Cross Section -100.0 To 2.725 %



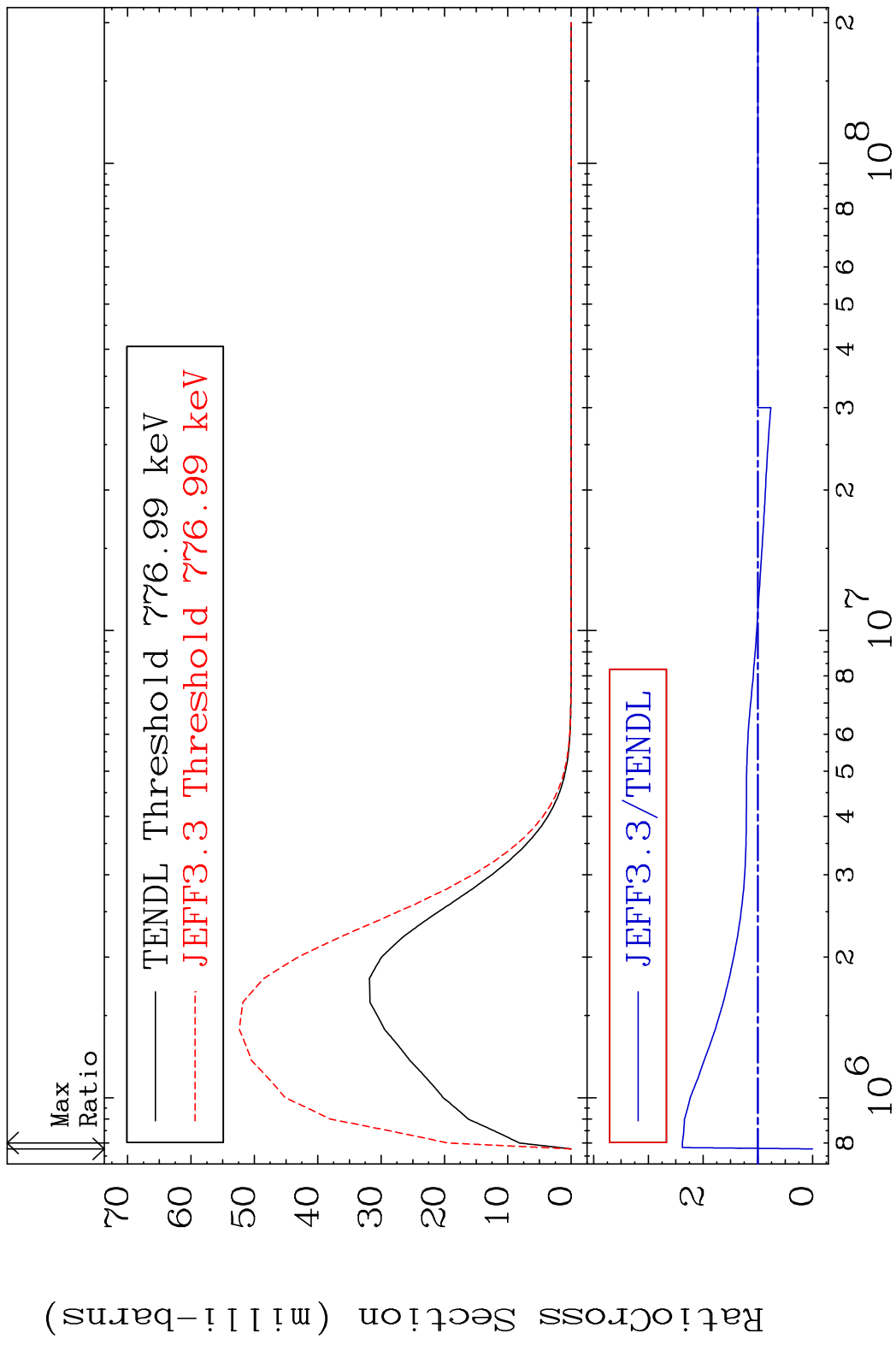
MAT 5731 MT= 74 (n,n') Level 57-La-140  
 Cross Section -7.859 To 3.212 %



MAT 5731 MT= 75 (n,n') Level 57-La-140  
 Cross Section -100.0 To 138.2 %



MAT 5731 MT= 76 (n,n') Level 57-La-140  
 Cross Section -100.0 To 138.0 %



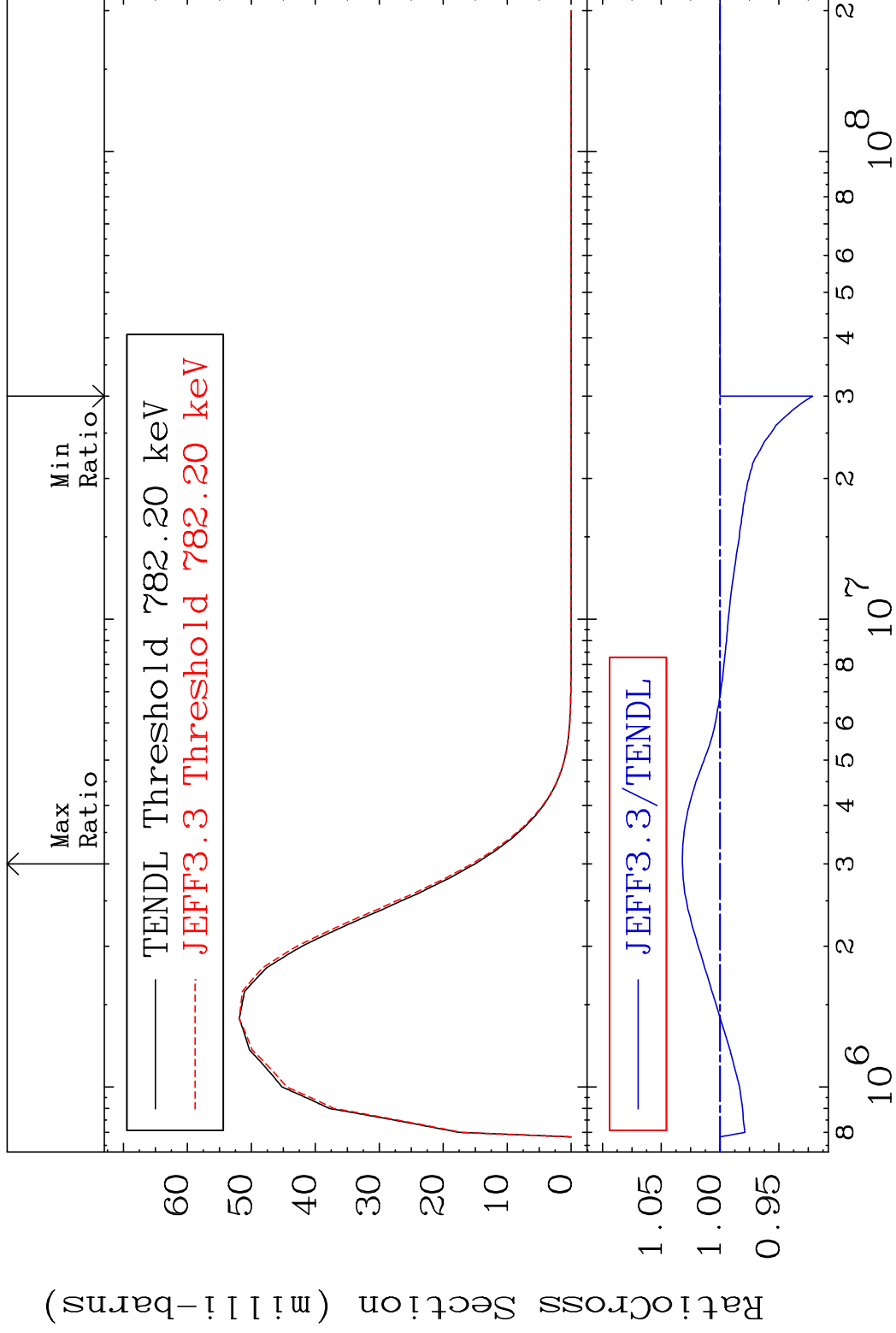
45 Incident Energy (eV) 57-La-140

MAT 5731

MT= 77 (n, n') Level

57-La-140

Cross Section -7.859 To 3.209 %

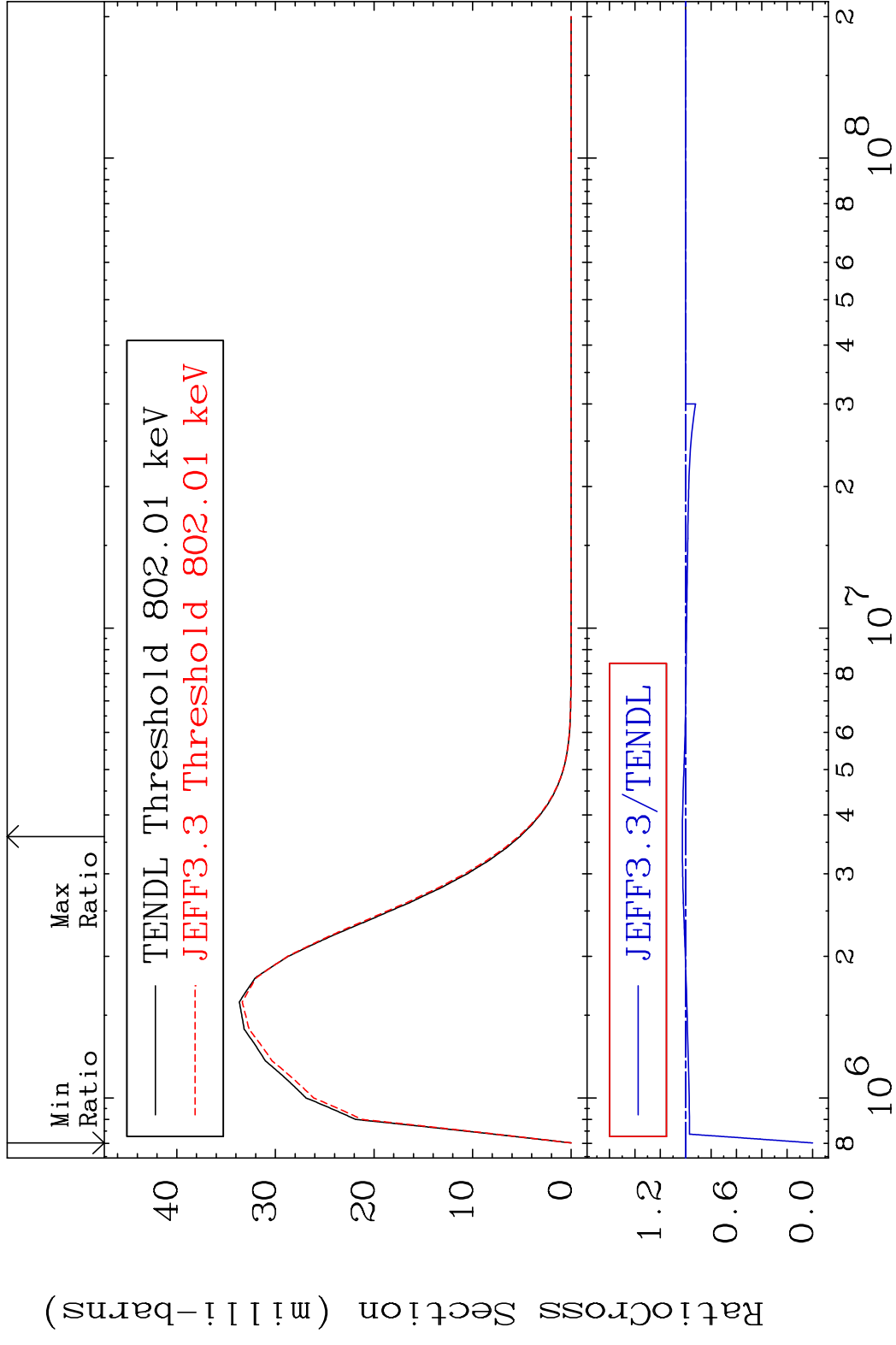


46

Incident Energy (eV)

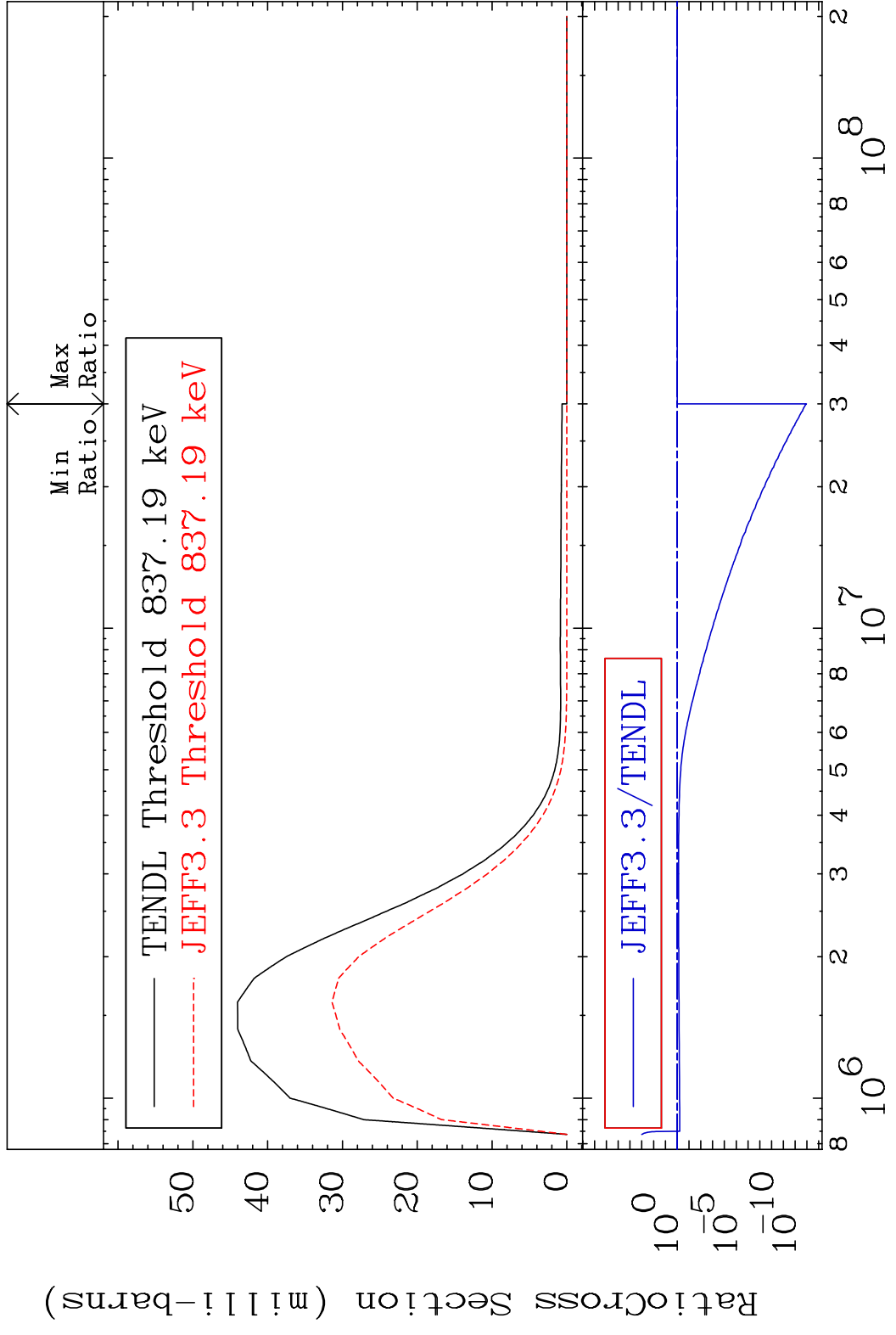
57-La-140

MAT 5731 MT= 78 (n,n') Level 57-La-140  
 Cross Section -100.0 To 2.593 %





MAT 5731 MT= 79 (n, n') Level 57-La-140  
 Cross Section -100.0 To 0.000 %



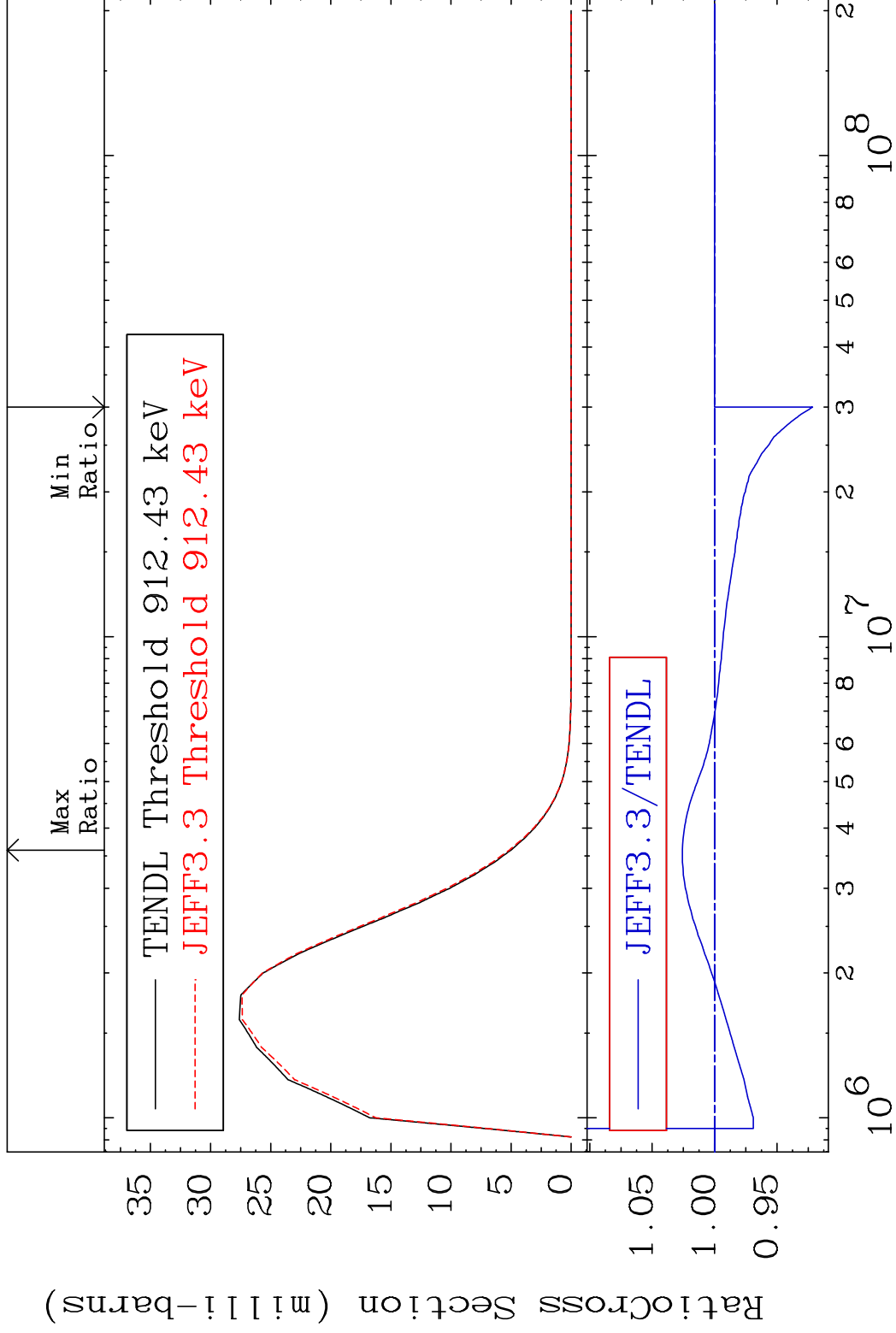
48 Incident Energy (eV) 57-La-140

MAT 5731

MT= 80 (n,n') Level

57-La-140

Cross Section -7.846 To 2.582 %



49

Incident Energy (eV)

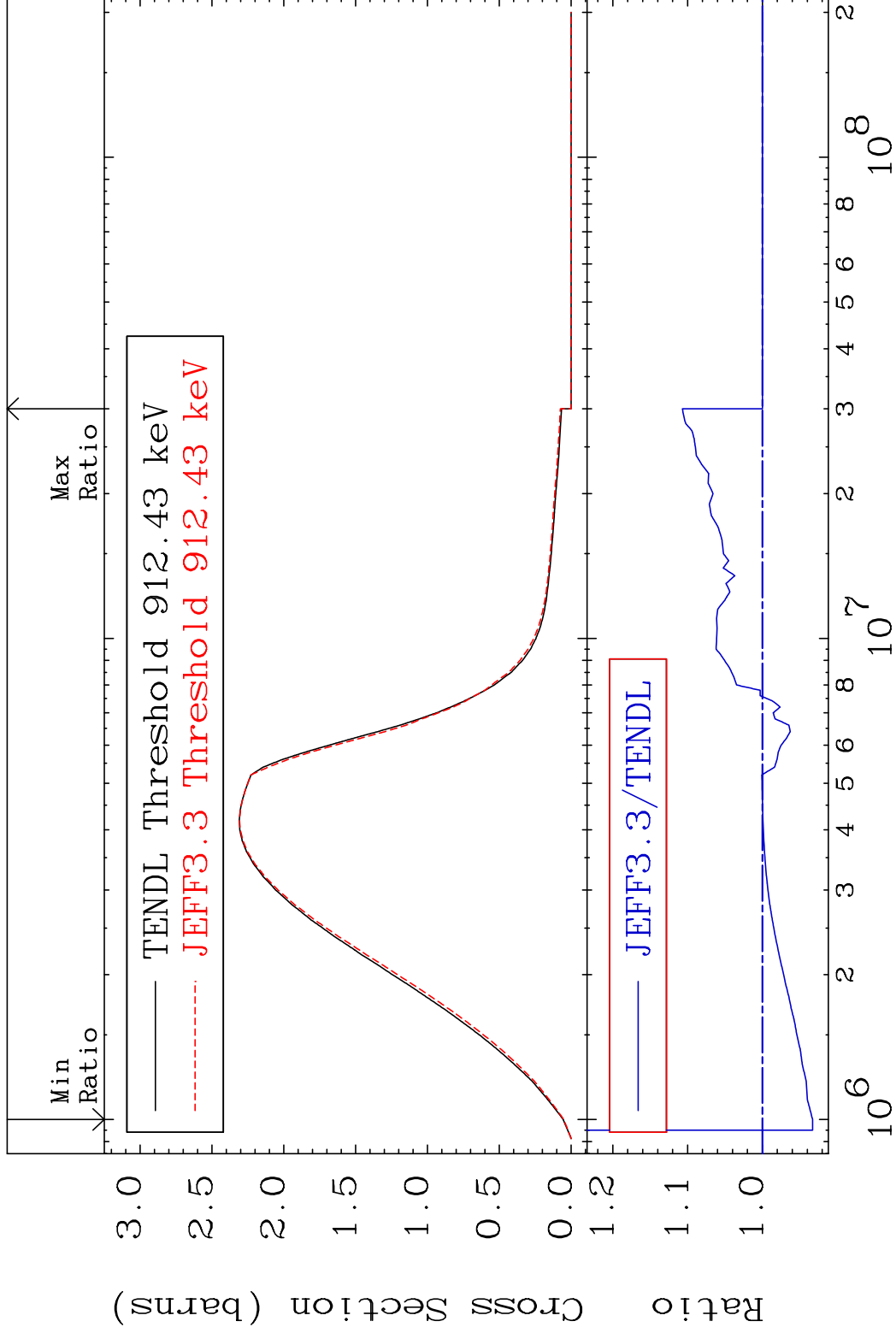
57-La-140

MAT 5731

(n,n') Continuum

57-La-140

Cross Section -6.705 To 10.70 %



50

Incident Energy (eV)

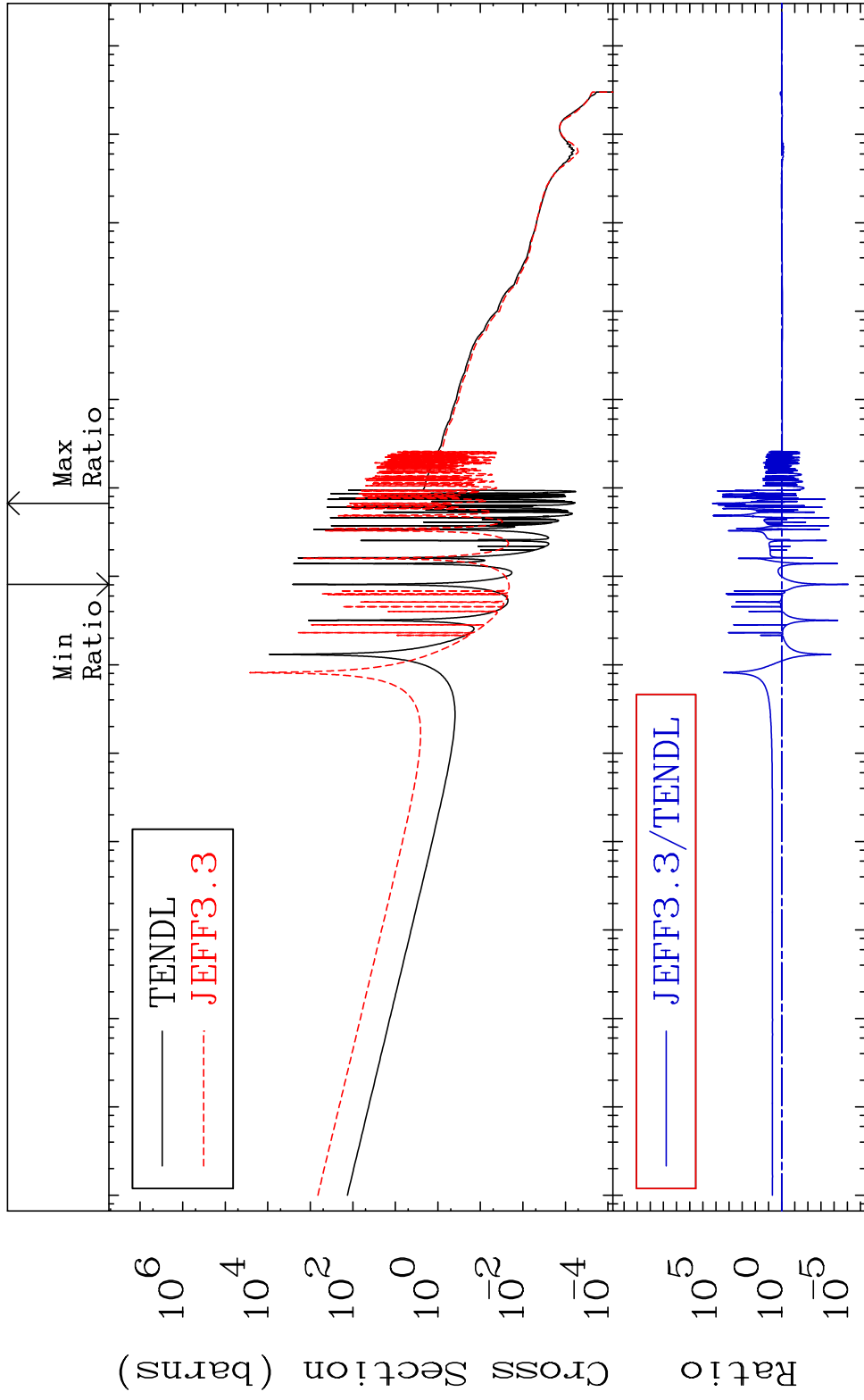
57-La-140

MAT 5731

(n,  $\gamma$ )

57-La-140

Cross Section -100.0 To 9999. %



51

Incident Energy (eV)

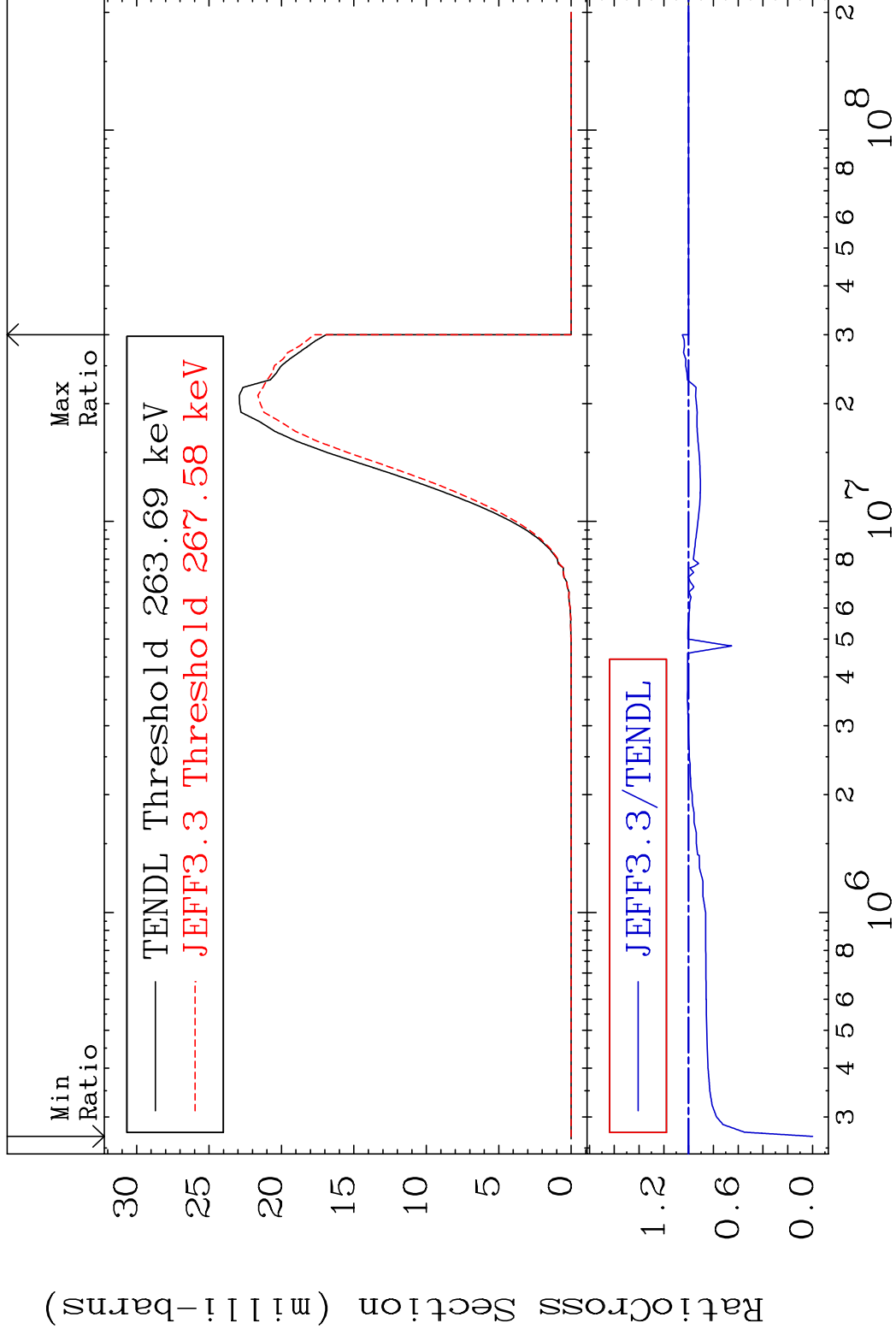
57-La-140

MAT 5731

(n, p)

57-La-140

Cross Section -100.0 To 5.069 %

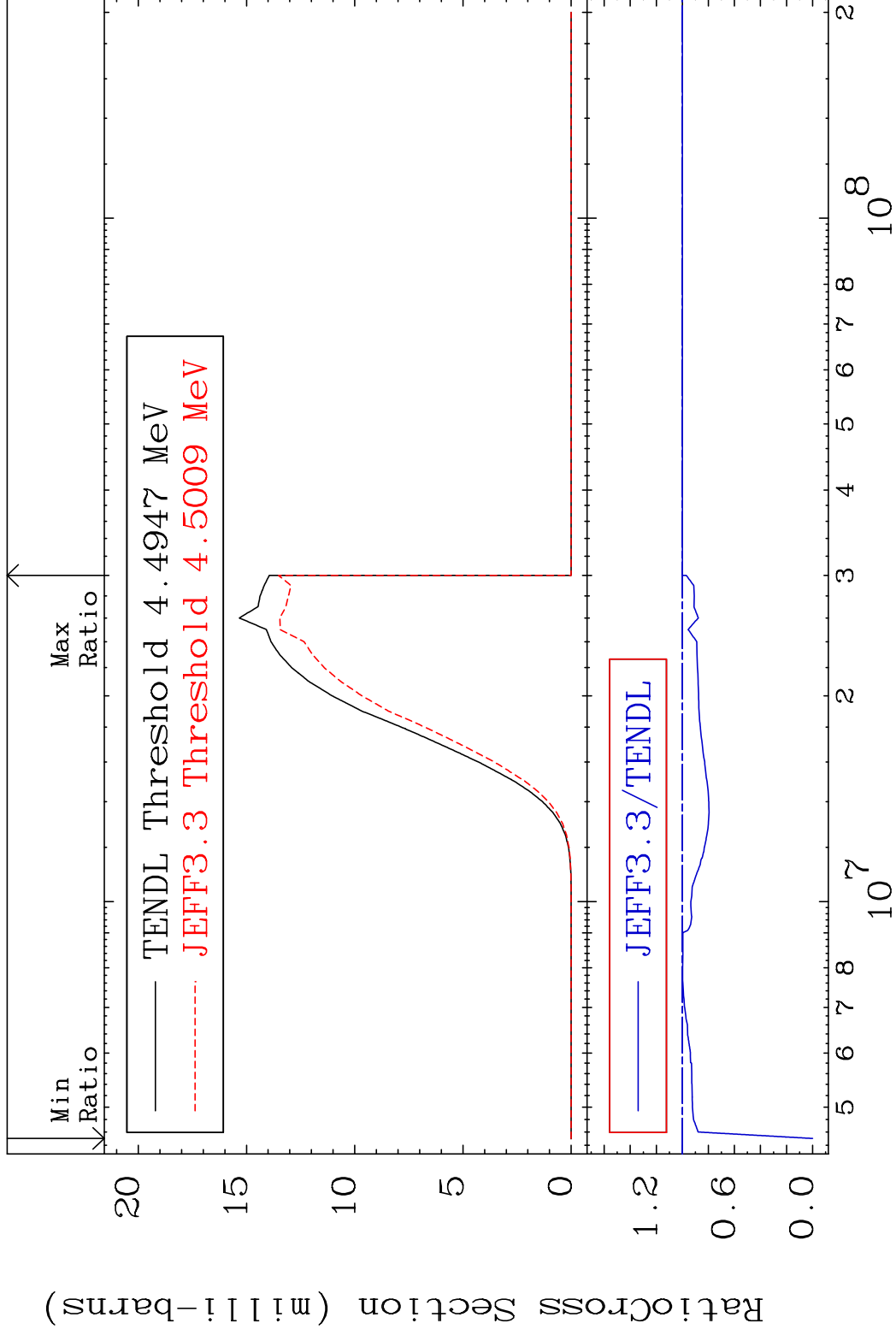


MAT 5731

(n,d)

57-La-140

Cross Section -100.0 To 0.000 %



53

Incident Energy (eV)

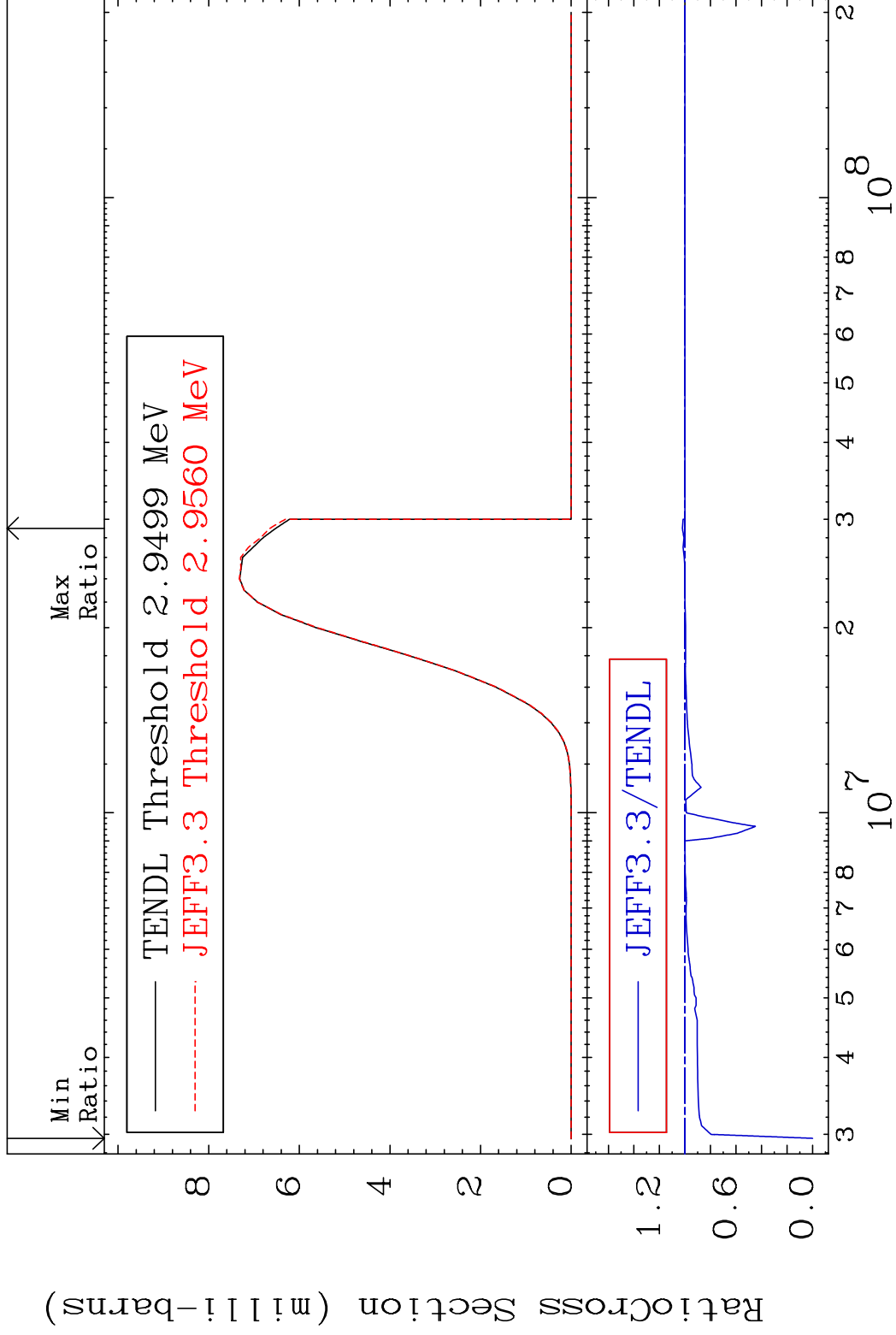
57-La-140

MAT 5731

(n, t)

57-La-140

Cross Section -100.0 To 2.035 %



54

Incident Energy (eV)

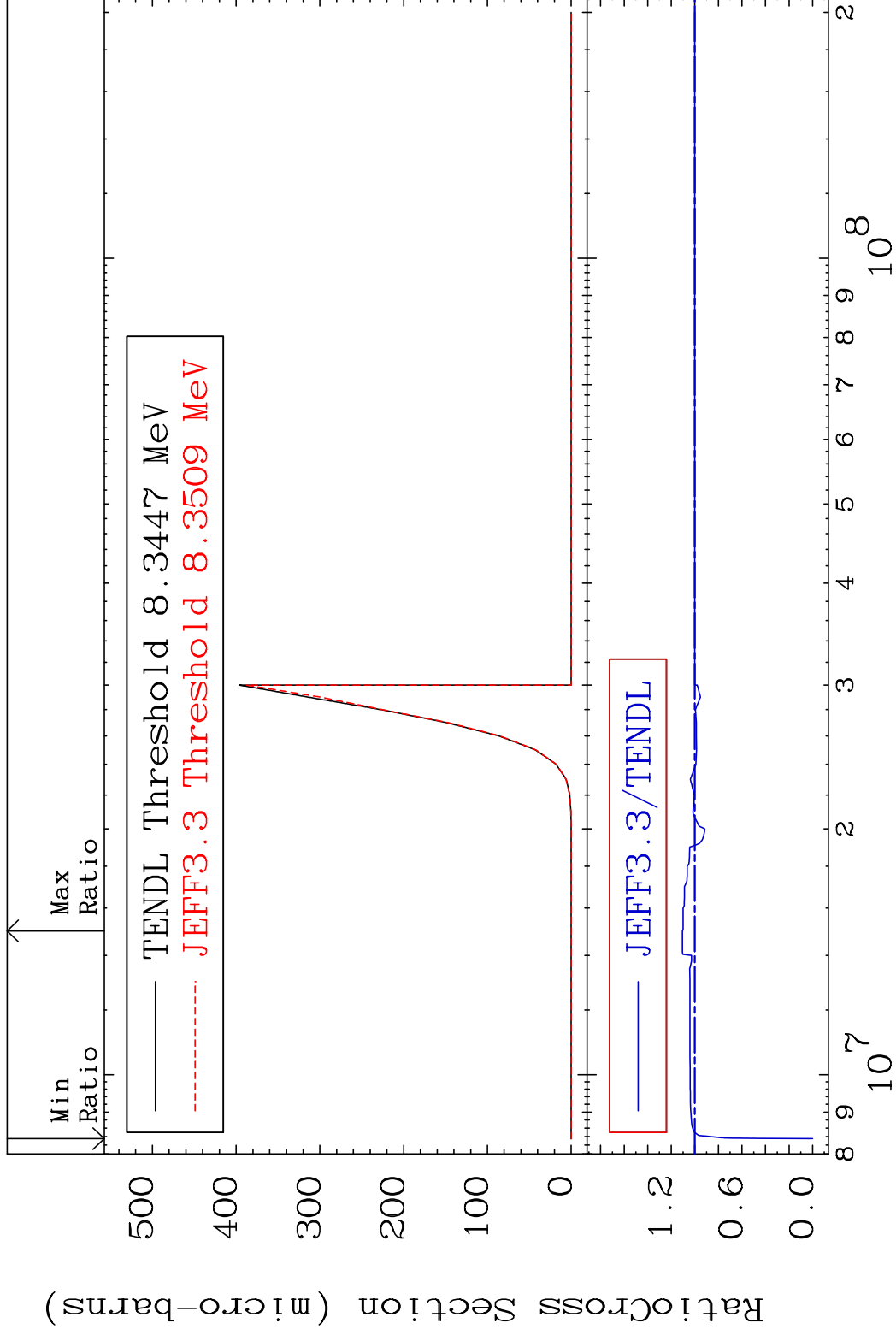
57-La-140

MAT 5731

(n, He-3)

57-La-140

Cross Section -100.0 To 10.56 %



55

Incident Energy (eV)

57-La-140

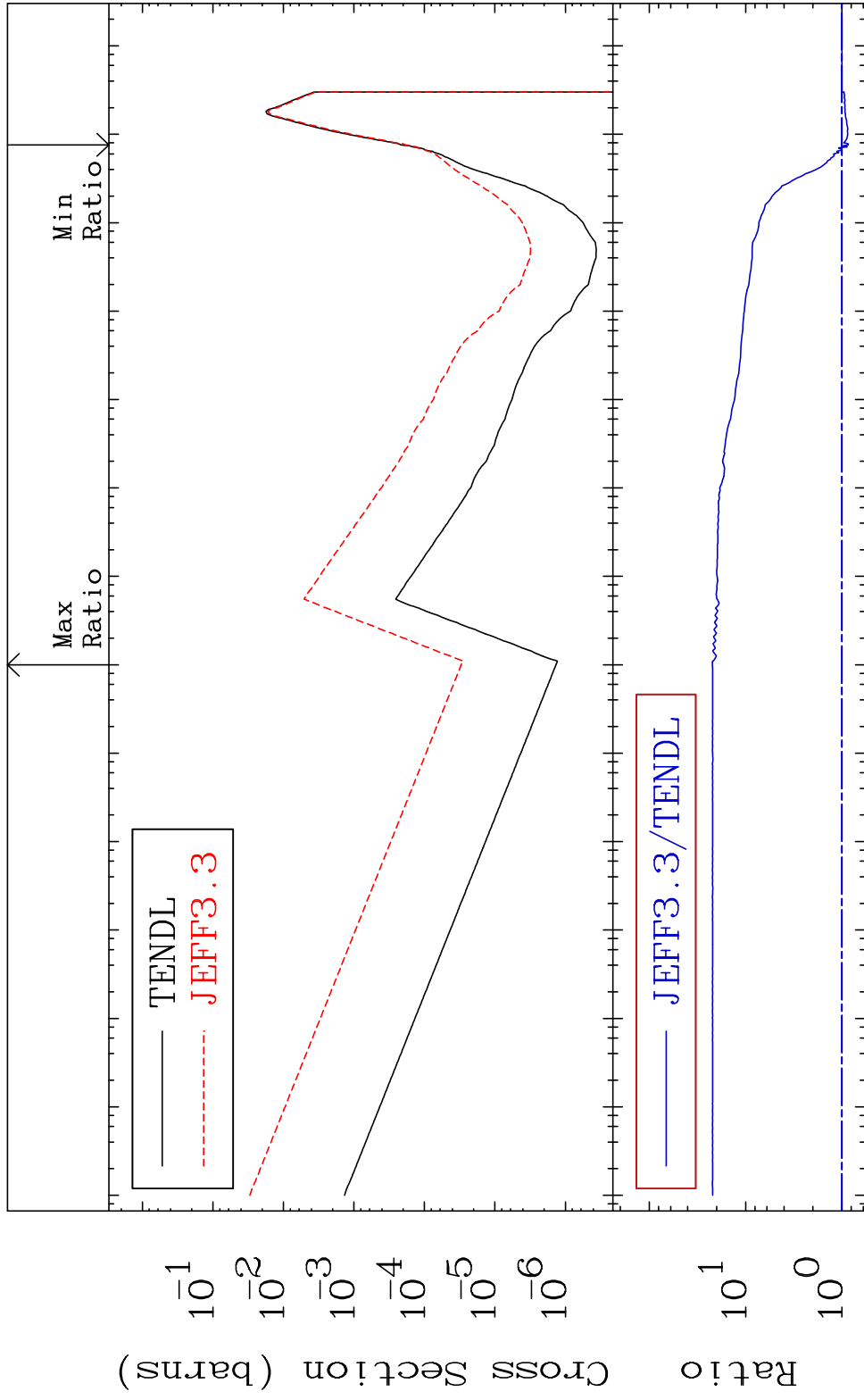


MAT 5731

57-La-140

(n,  $\alpha$ )

Cross Section -14.06 To 2117. %



56

Incident Energy (eV)

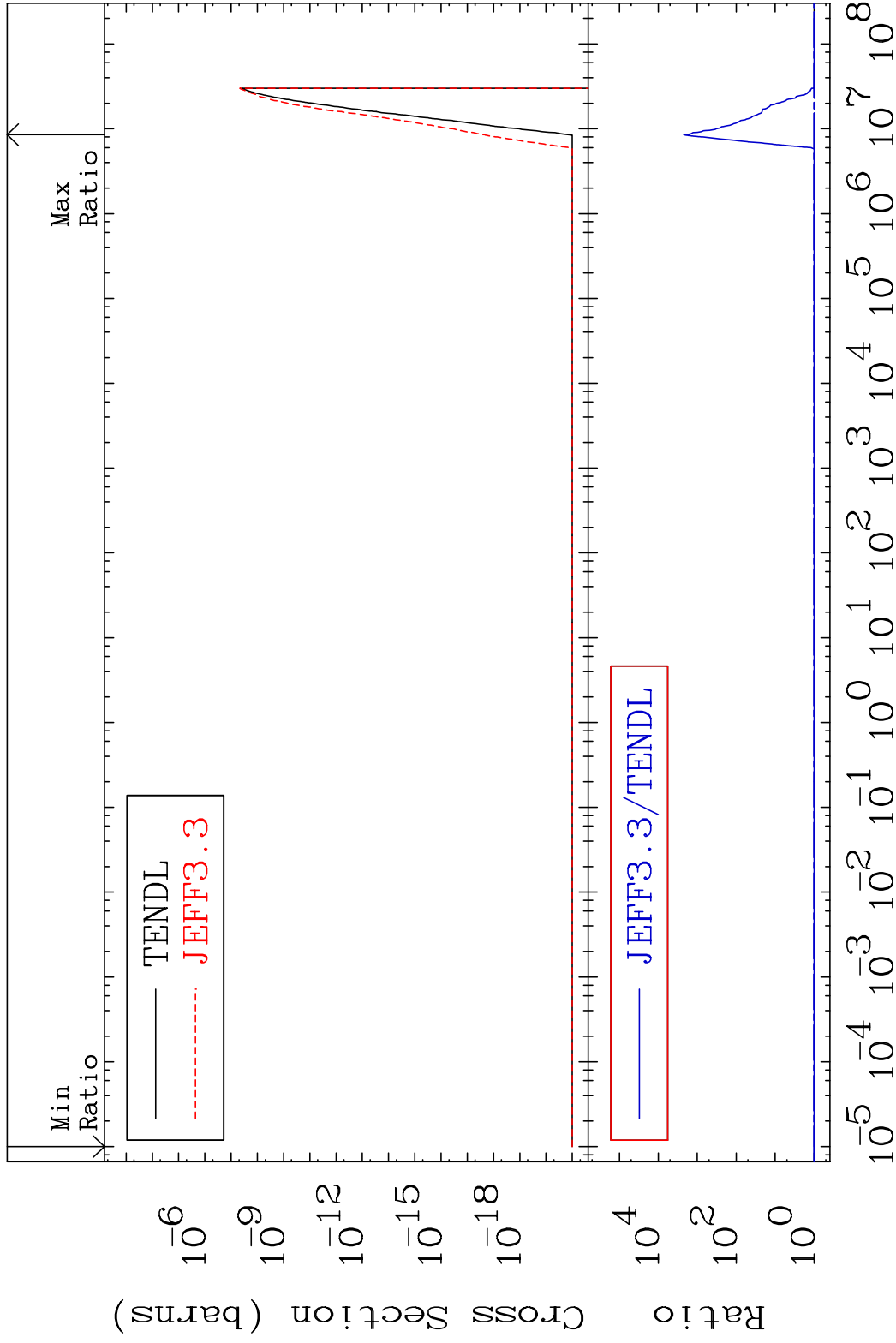
57-La-140

MAT 5731

(n,2α)

57-La-140

Cross Section 0.000 To 9999. %



57

Incident Energy (eV)

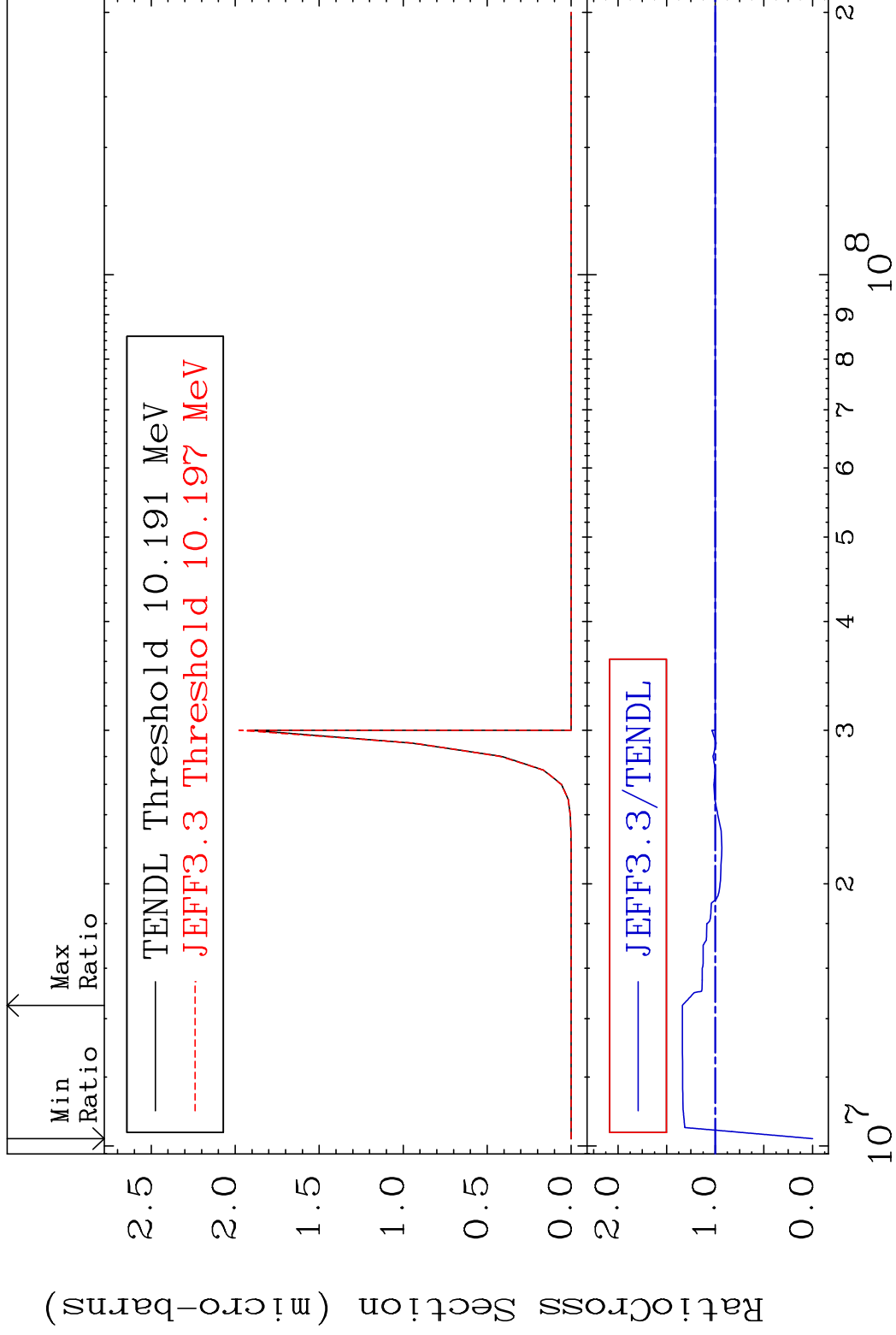
57-La-140

MAT 5731

(n,2p)

57-La-140

Cross Section -100.0 To 33.83 %



58

Incident Energy (eV)

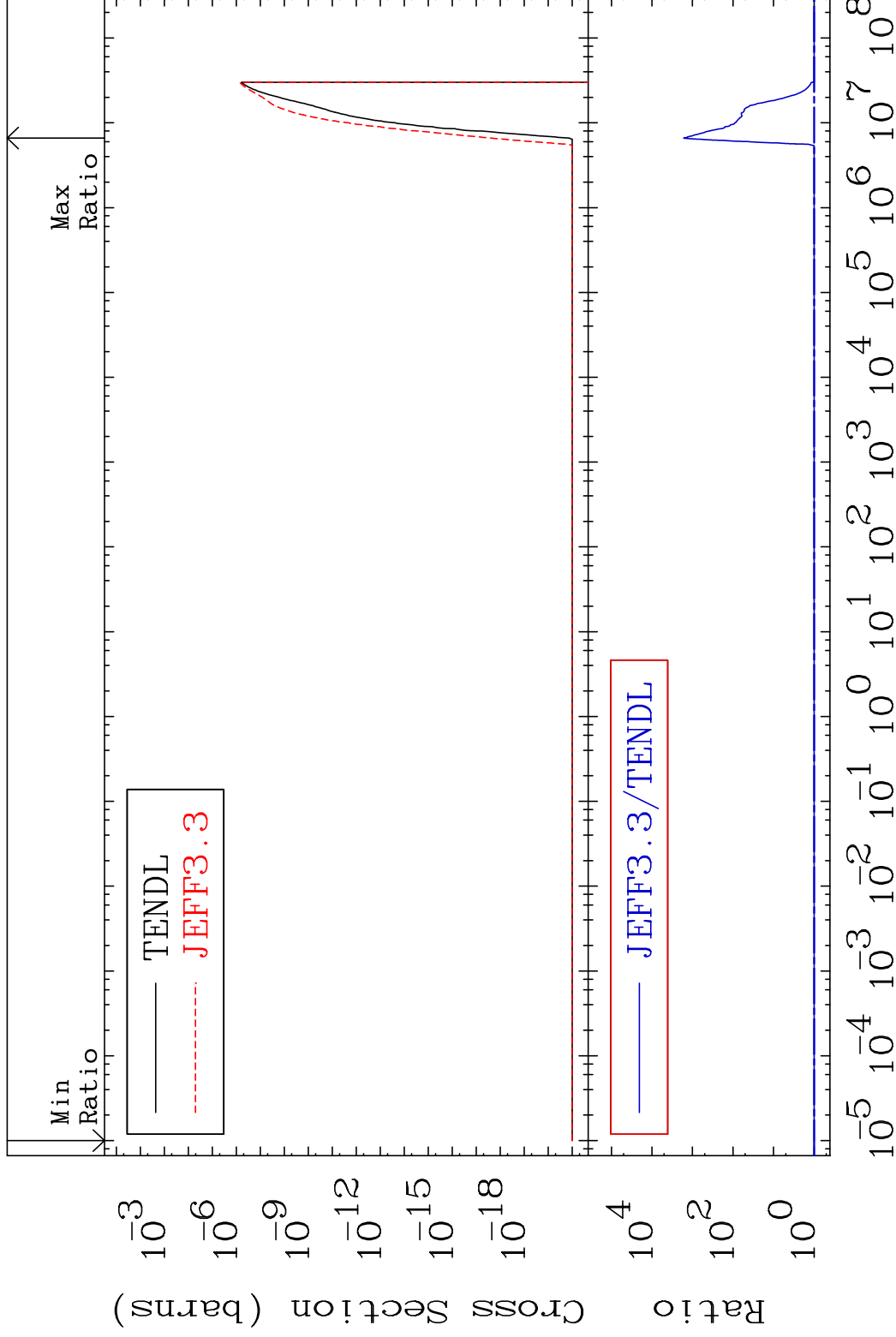
57-La-140

MAT 5731

(n,p)  $\alpha$

57-La-140

Cross Section 0.000 To 9999. %



59

Incident Energy (eV)

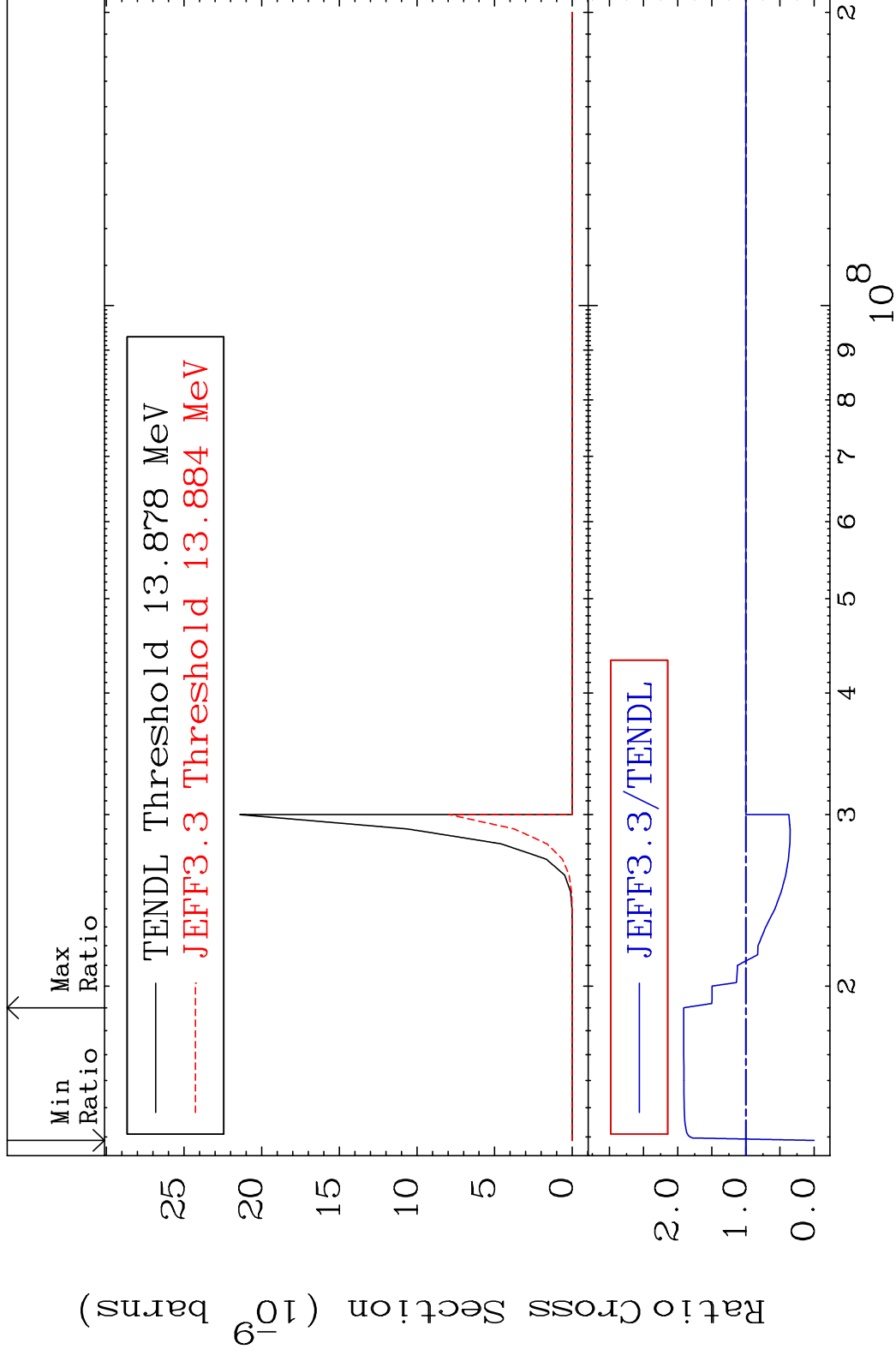
57-La-140

MAT 5731

(n,p) d

57-La-140

Cross Section -100.0 To 91.19 %



60

Incident Energy (eV)

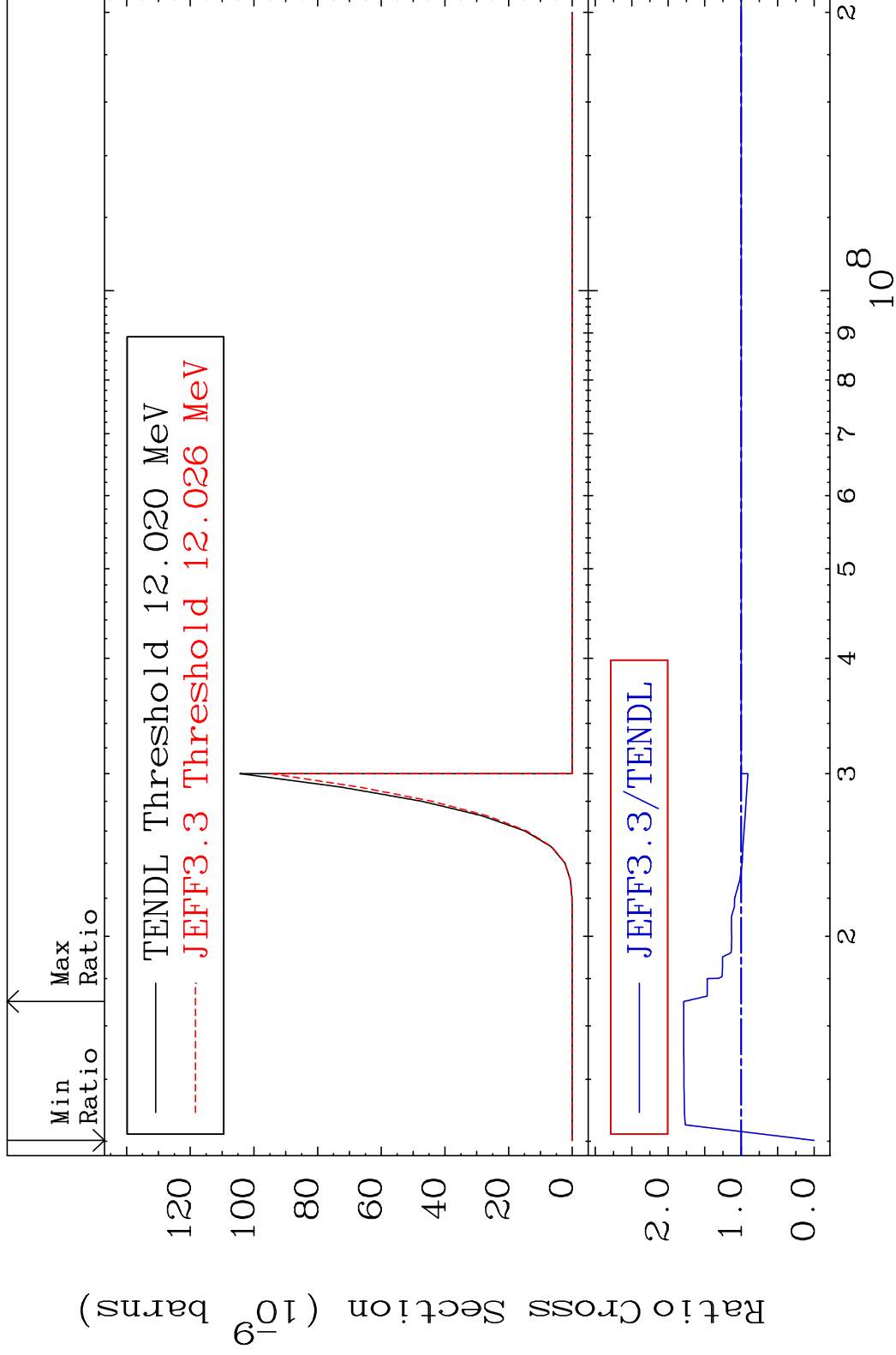
57-La-140

MAT 5731

(n,p) t

57-La-140

Cross Section -100.0 To 78.82 %



61

Incident Energy (eV)

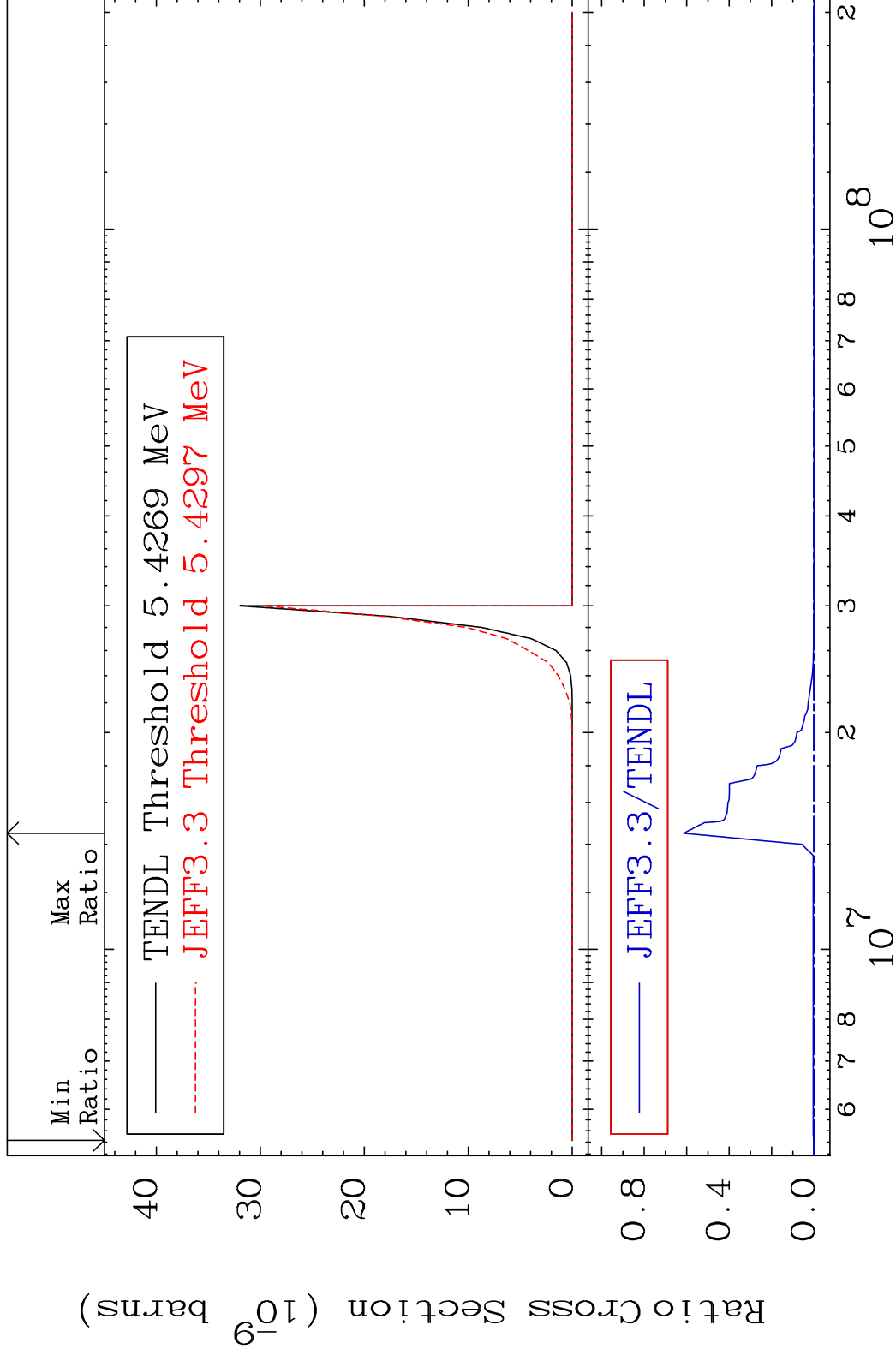
57-La-140

MAT 5731

(n,d)  $\alpha$

57-La-140

Cross Section -100.0 To 9999. %



62

Incident Energy (eV)

57-La-140

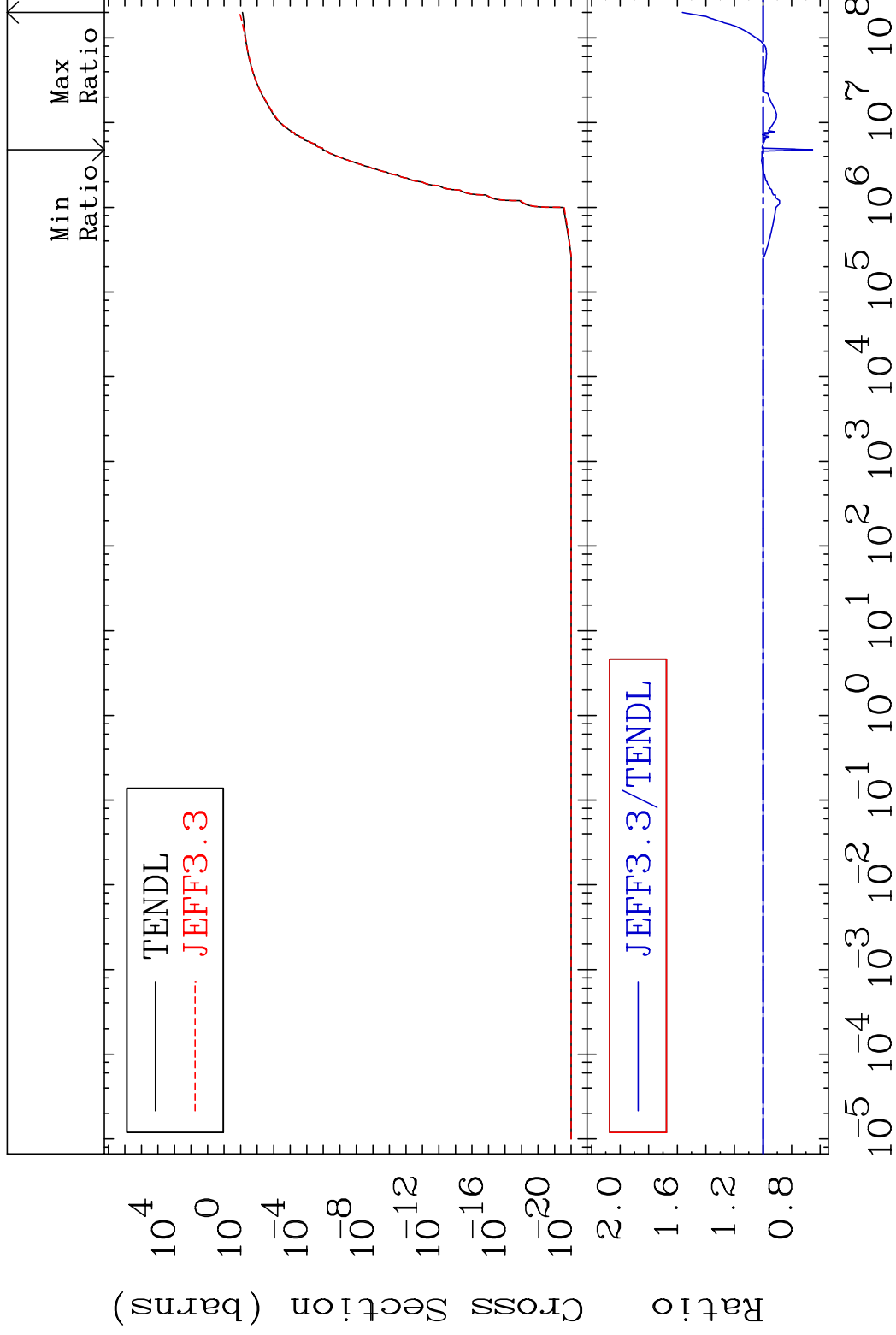
MAT 5731

Hydrogen Production

57-La-140

Cross Section

-34.64 To 56.46 %



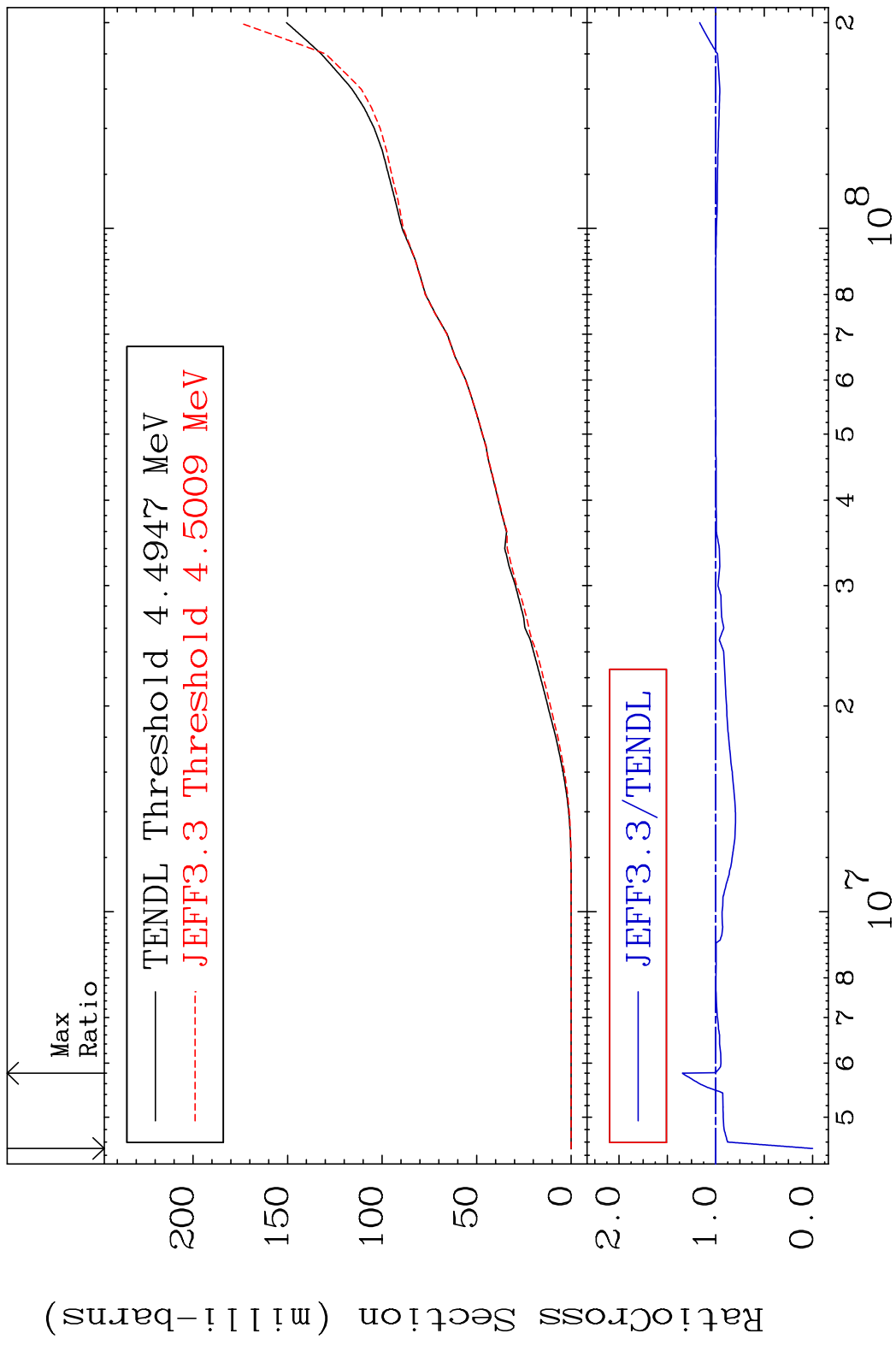
63

Incident Energy (eV)

57-La-140

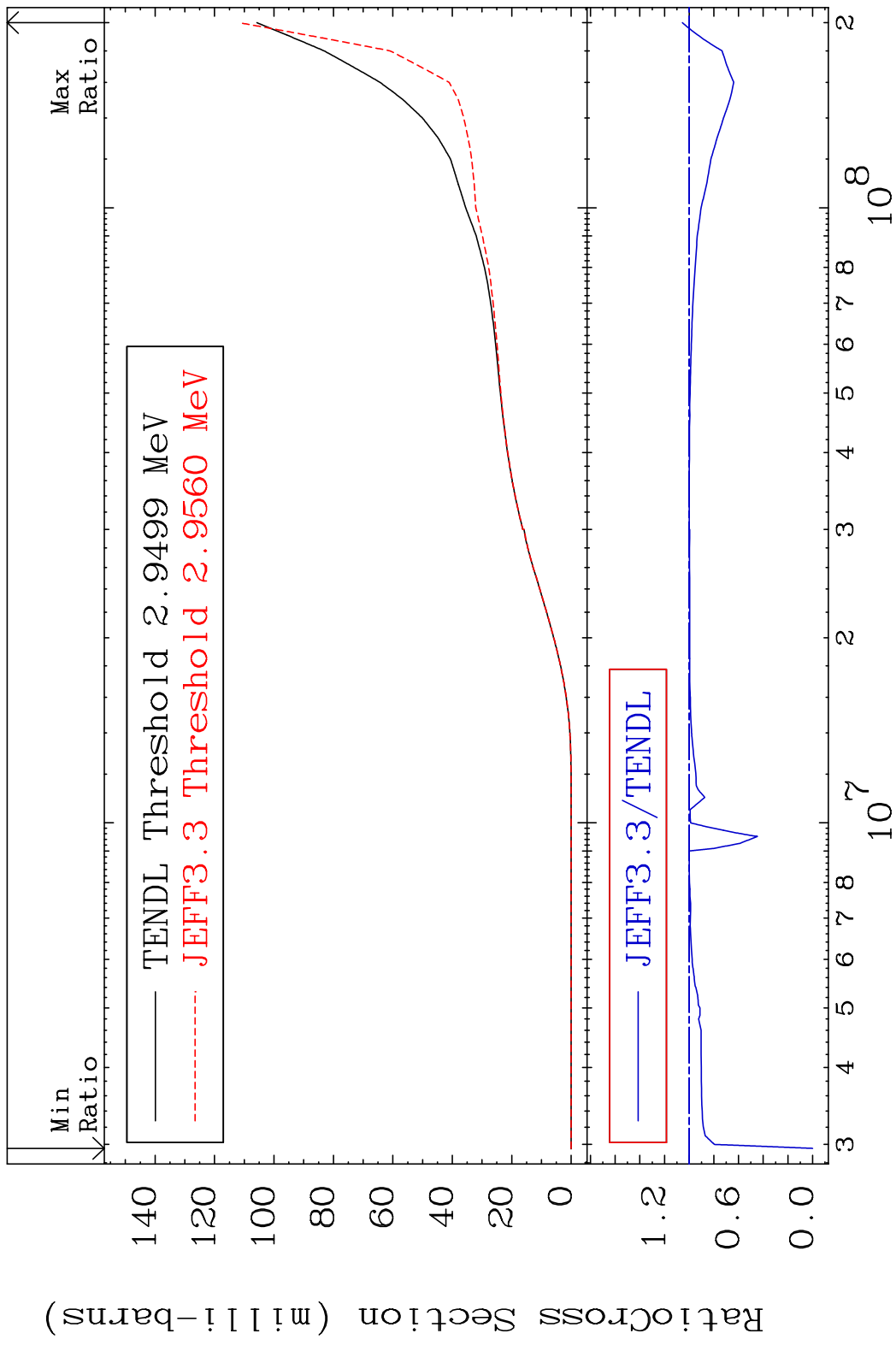


MAT 5731 Deuterium Production 57-La-140  
 Cross Section -100.0 To 34.51 %



64 Incident Energy (eV) 57-La-140

MAT 5731 Tritium Production 57-La-140  
 Cross Section -100.0 To 5.550 %

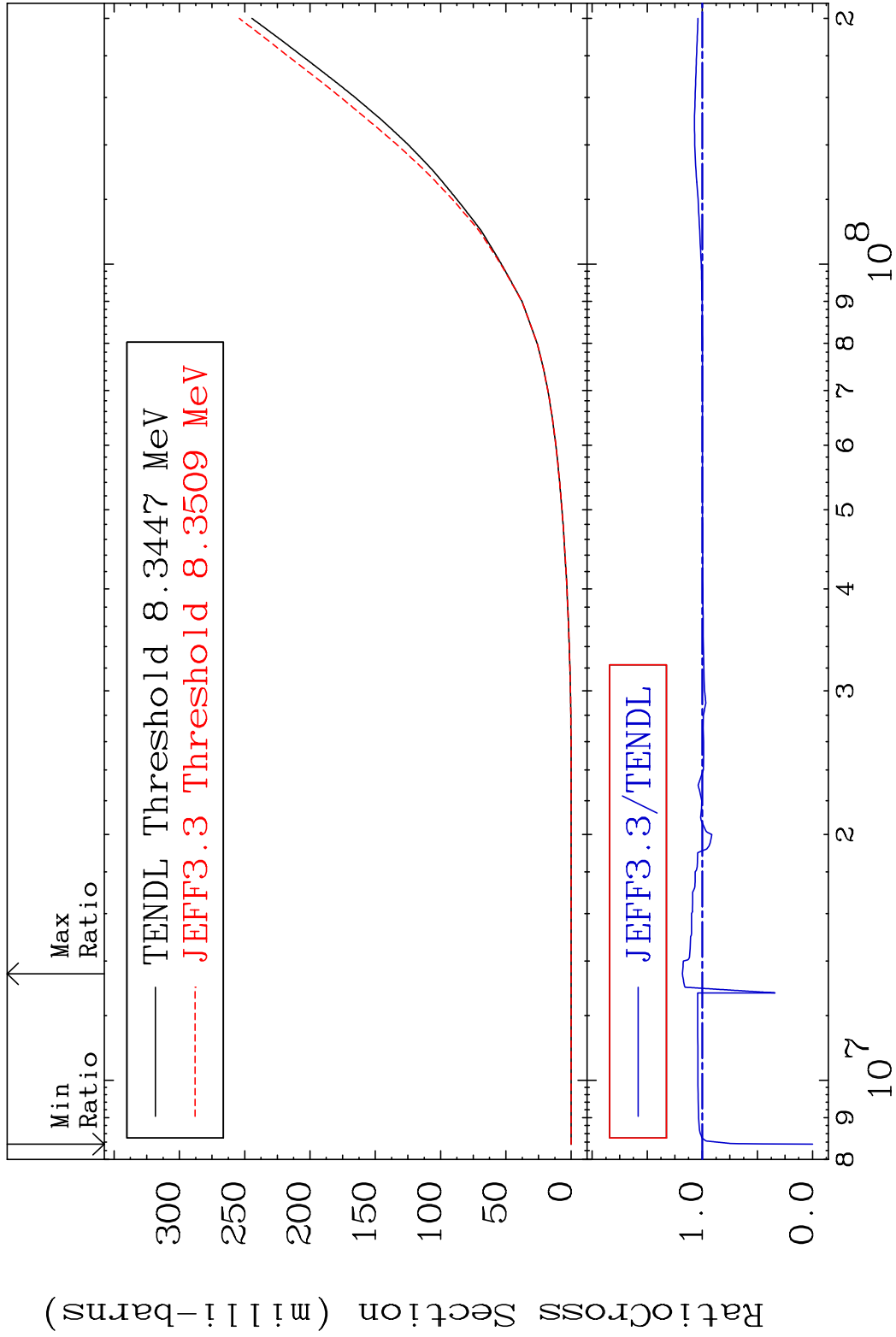


MAT 5731

He-3 Production

57-La-140

Cross Section -100.0 To 18.13 %



66

Incident Energy (eV)

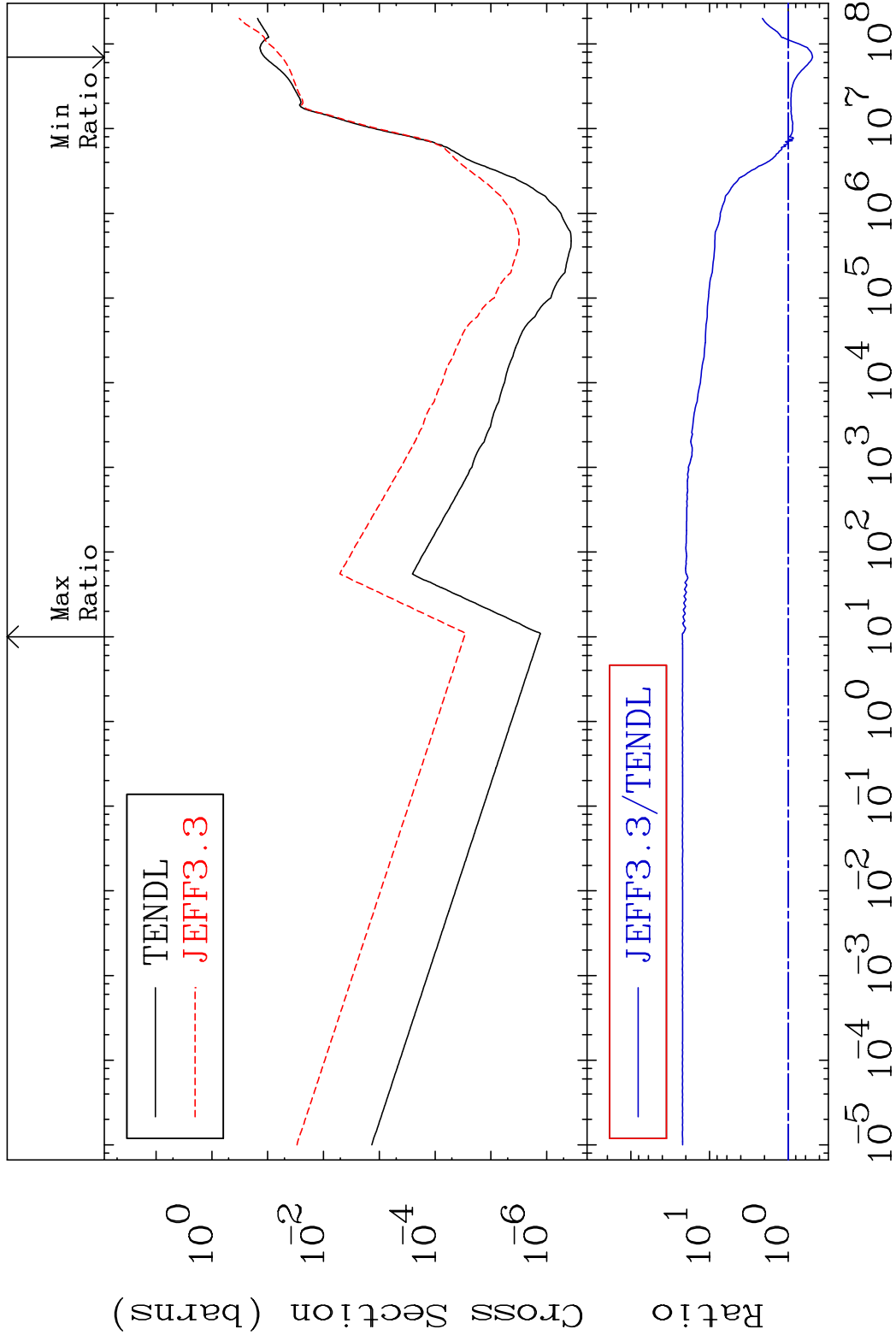
57-La-140

MAT 5731

He-4 Production

57-La-140

Cross Section -51.16 To 2117. %



67

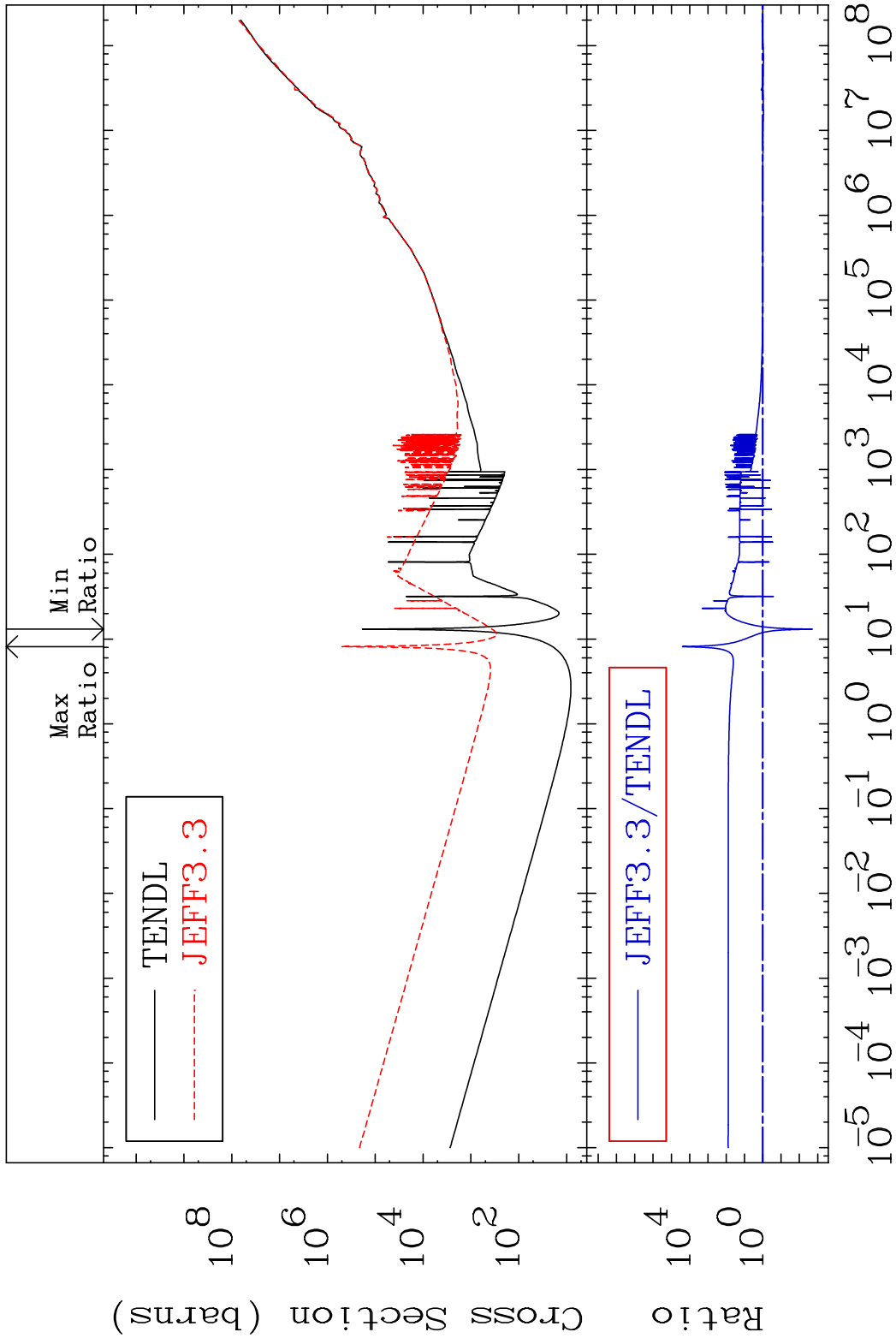
Incident Energy (eV)

57-La-140

MAT 5731

Kerma total (eV-barns) 57-La-140

Cross Section -99.81 To 9999. %



68

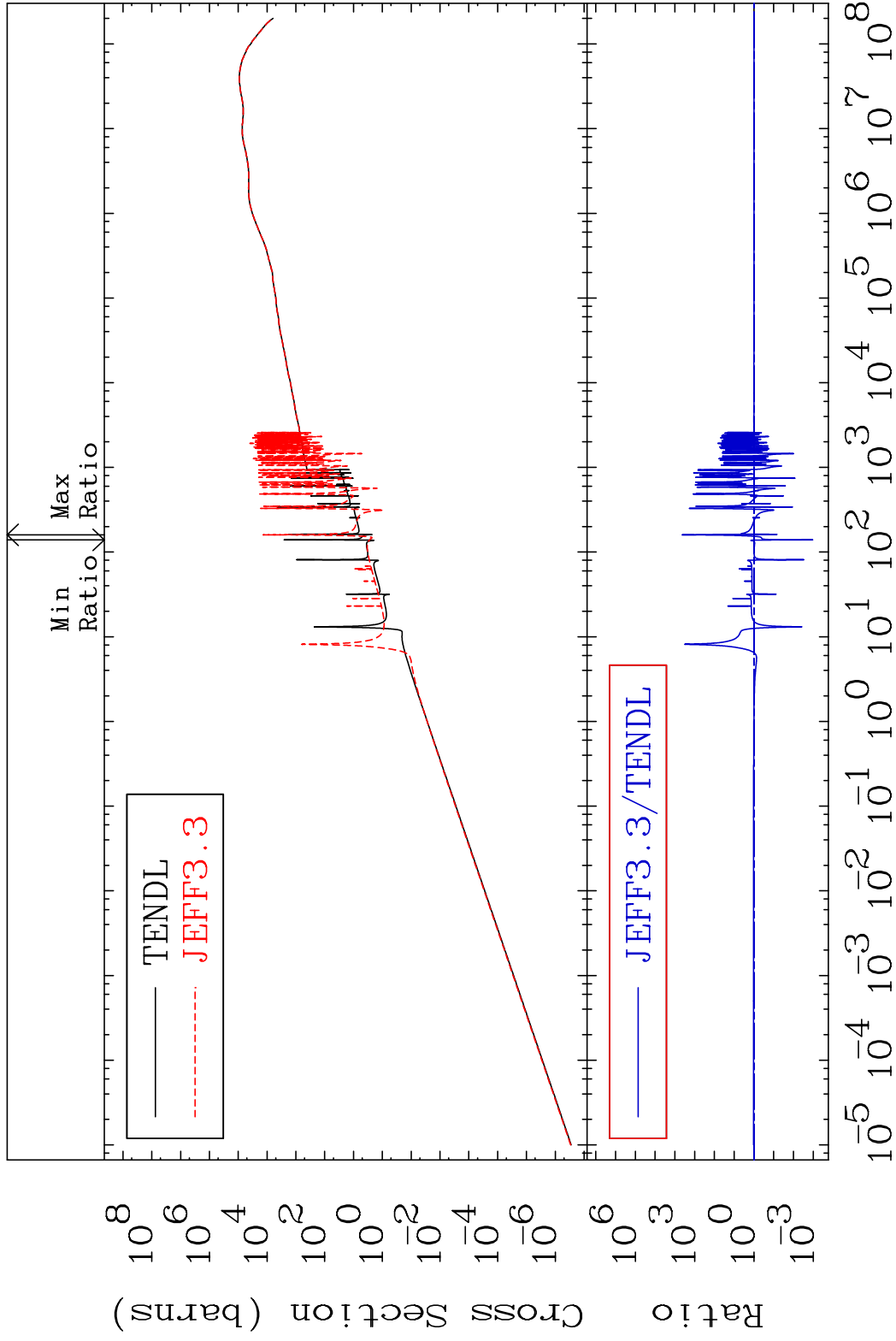
Incident Energy (eV)

57-La-140

MAT 5731

Kerma elastic  
Cross Section

57-La-140  
-99.89 To 9999. %

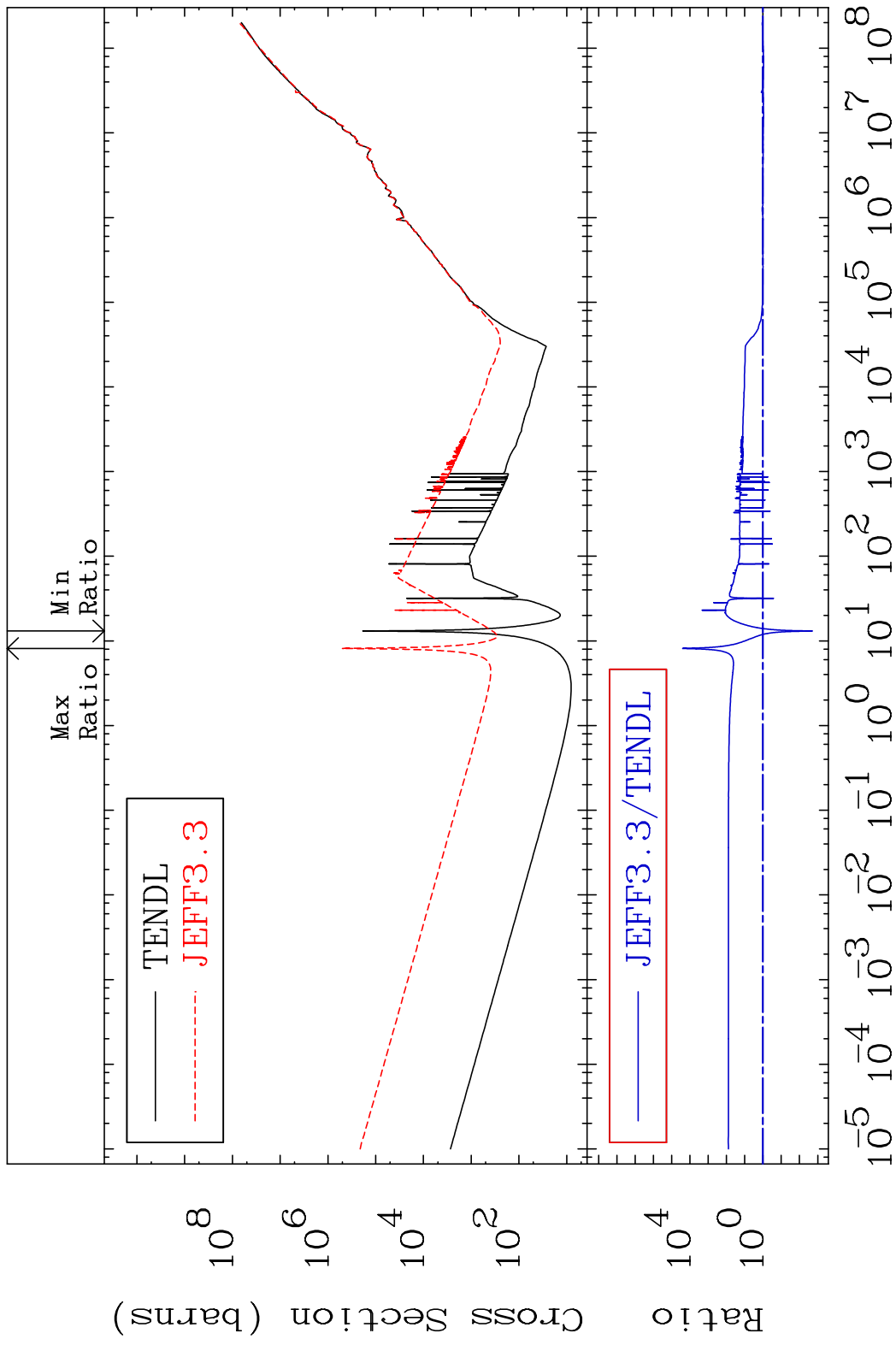


69

Incident Energy (eV)

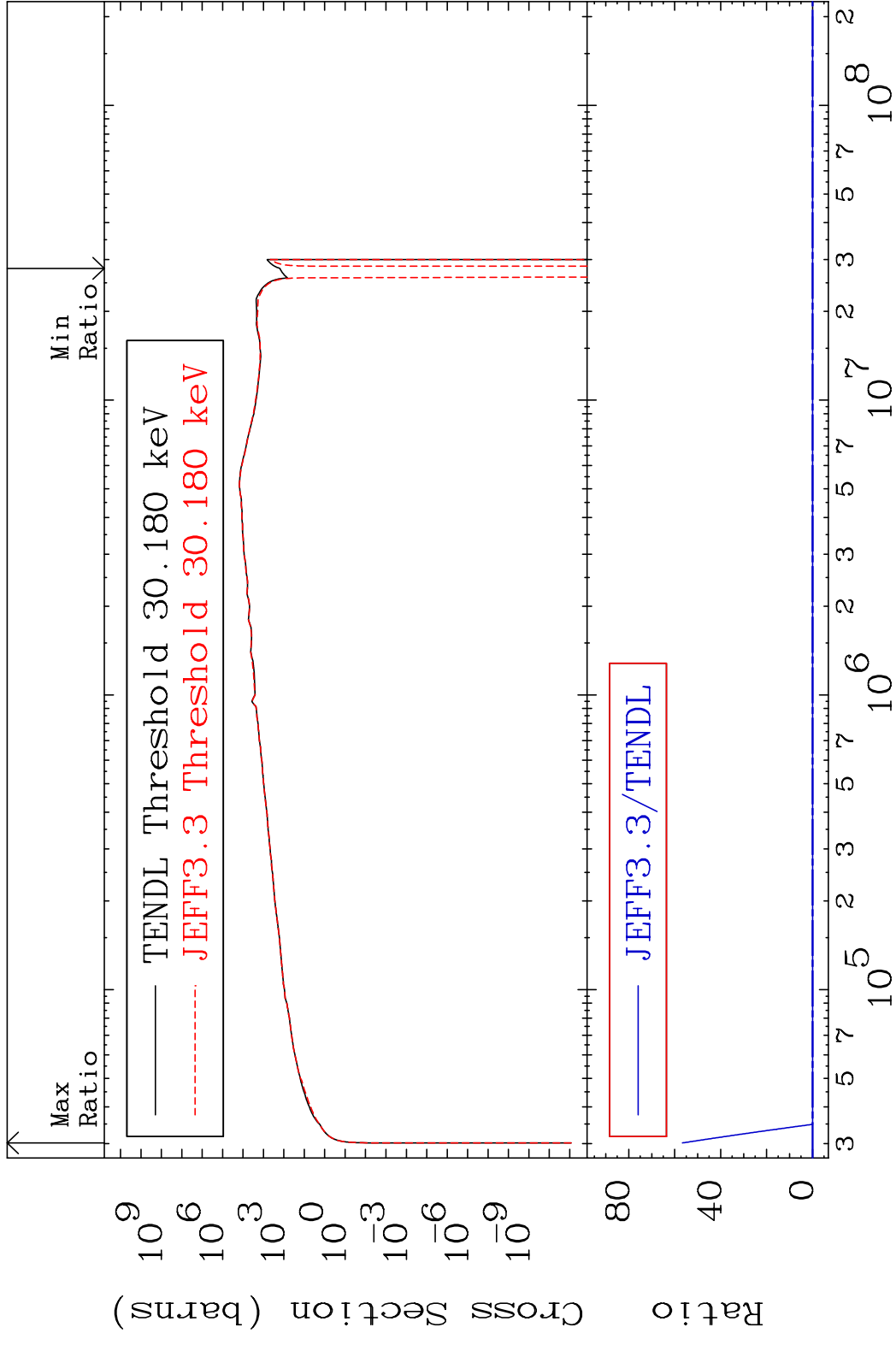
57-La-140

MAT 5731 Kerma non-elastic (all but mt2) 57-La-140  
 Cross Section -99.81 To 9999. %



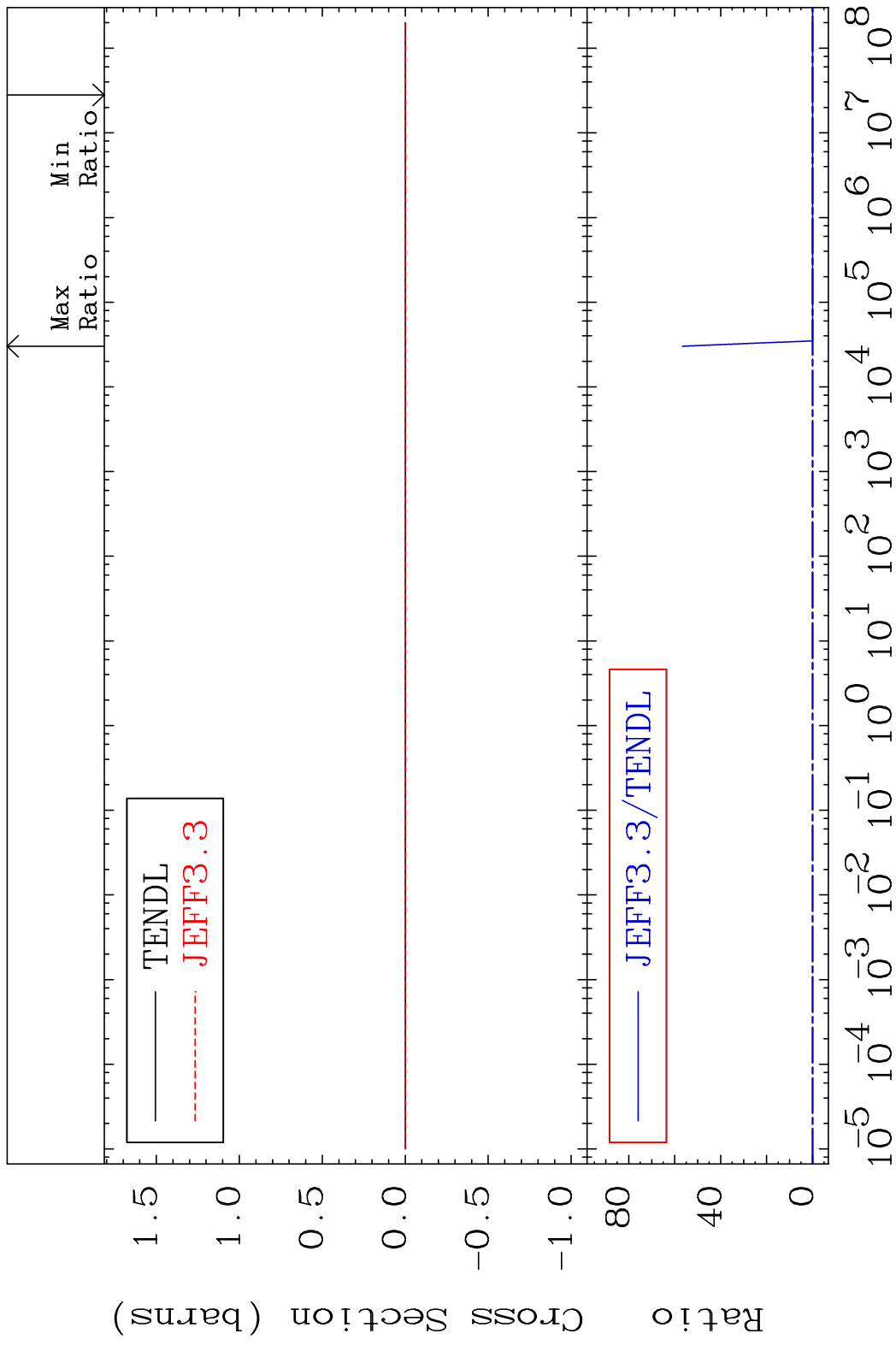
70 Incident Energy (eV) 57-La-140

MAT 5731 Kerma inelastic (mt51-91) 57-La-140  
 Cross Section -195.6 To 9999. %





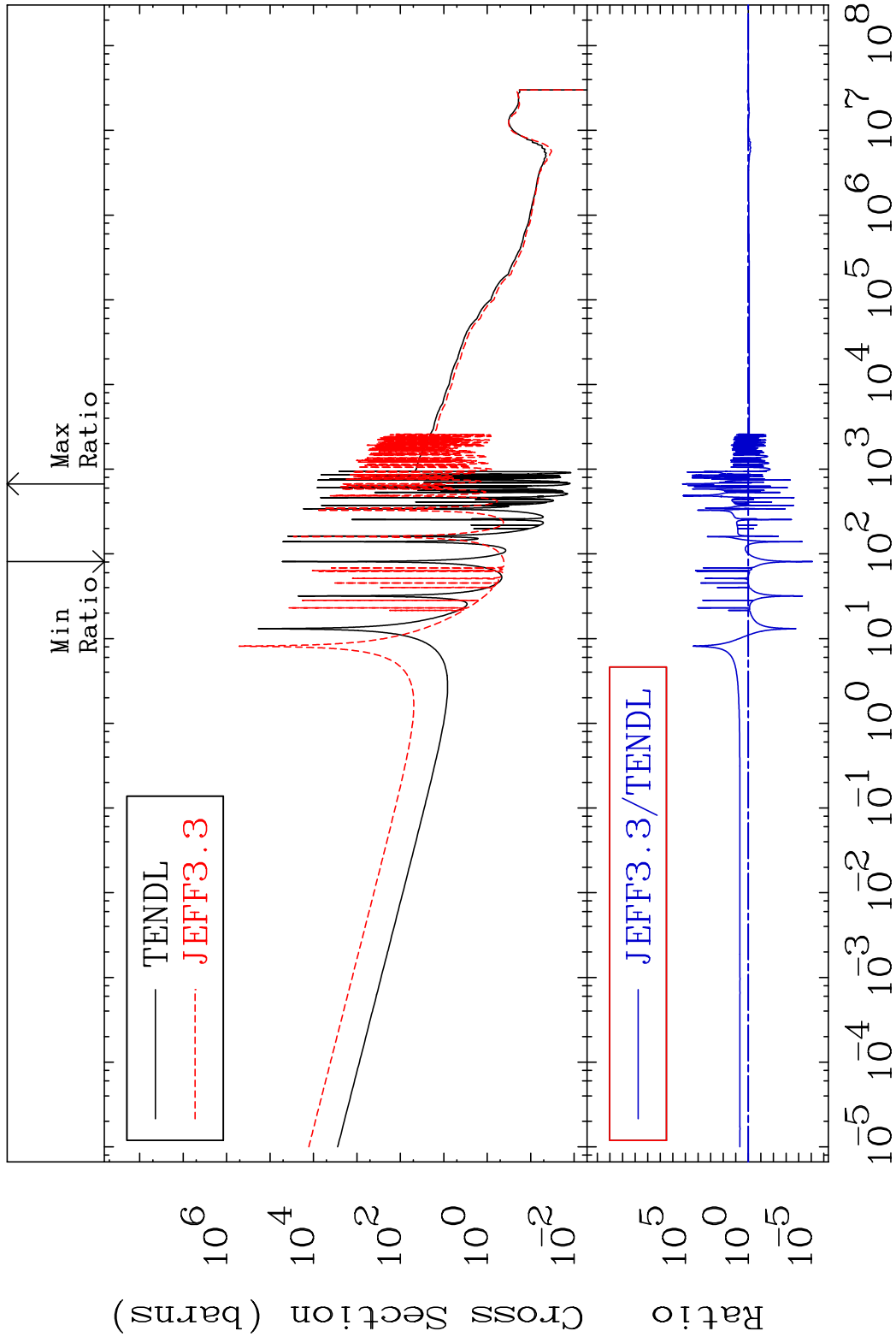
MAT 5731 Kerma fission (mt18 or mt19-20-21-38) 57-La-140  
 Cross Section -195.6 To 9999. %



MAT 5731

Kerma capture (mt102) 57-La-140

Cross Section -100.0 To 9999. %

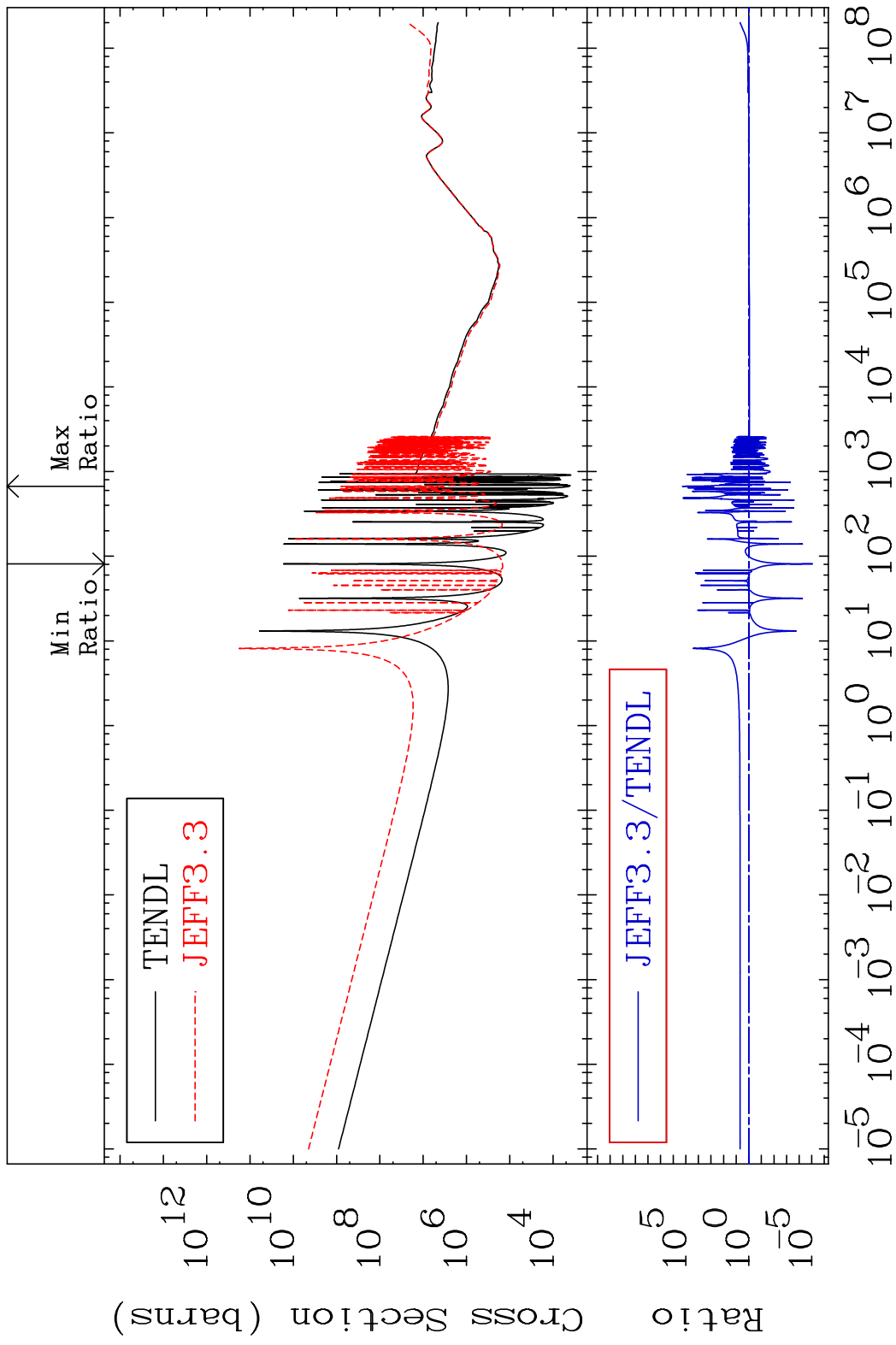


73

Incident Energy (eV)

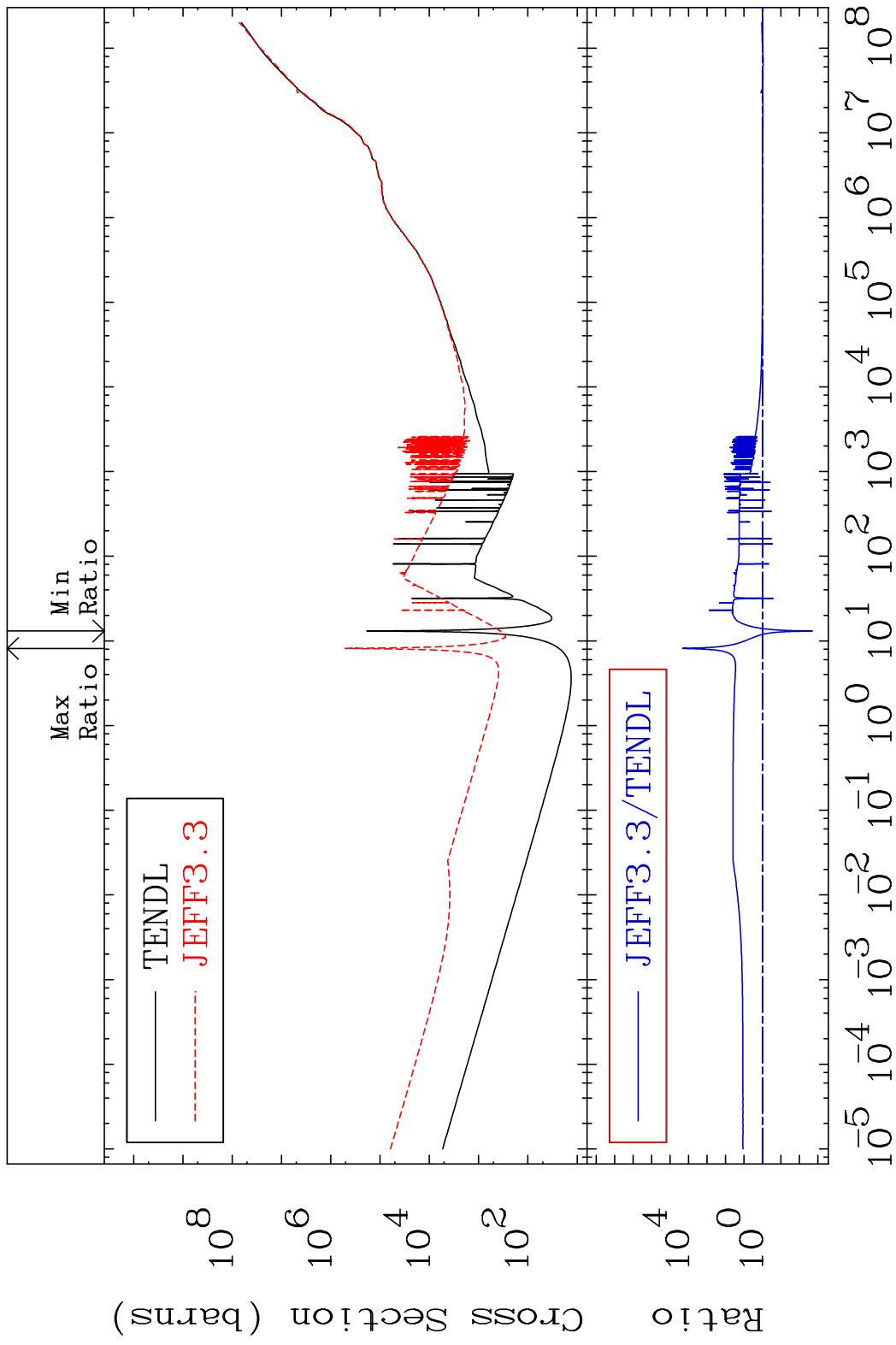
57-La-140

MAT 5731 Total photon (eV-barns) 57-La-140  
 Cross Section -100.0 To 9999. %



74 Incident Energy (eV) 57-La-140

MAT 5731 Total kinematic kerma (high limit) 57-La-140  
 Cross Section -99.81 To 9999. %

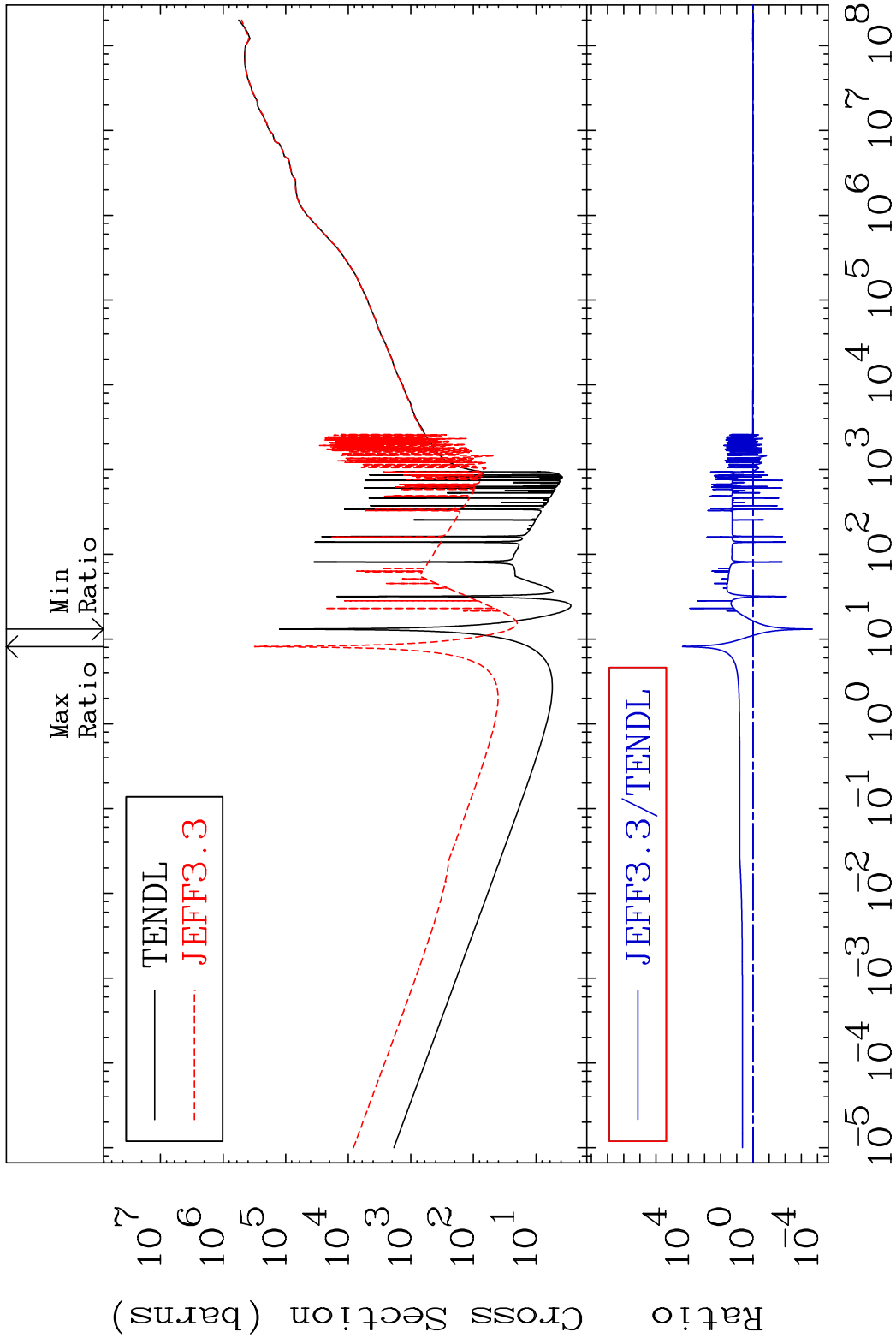


MAT 5731

Dpa total (eV-barns)

57-La-140

Cross Section -99.98 To 9999. %



76

Incident Energy (eV)

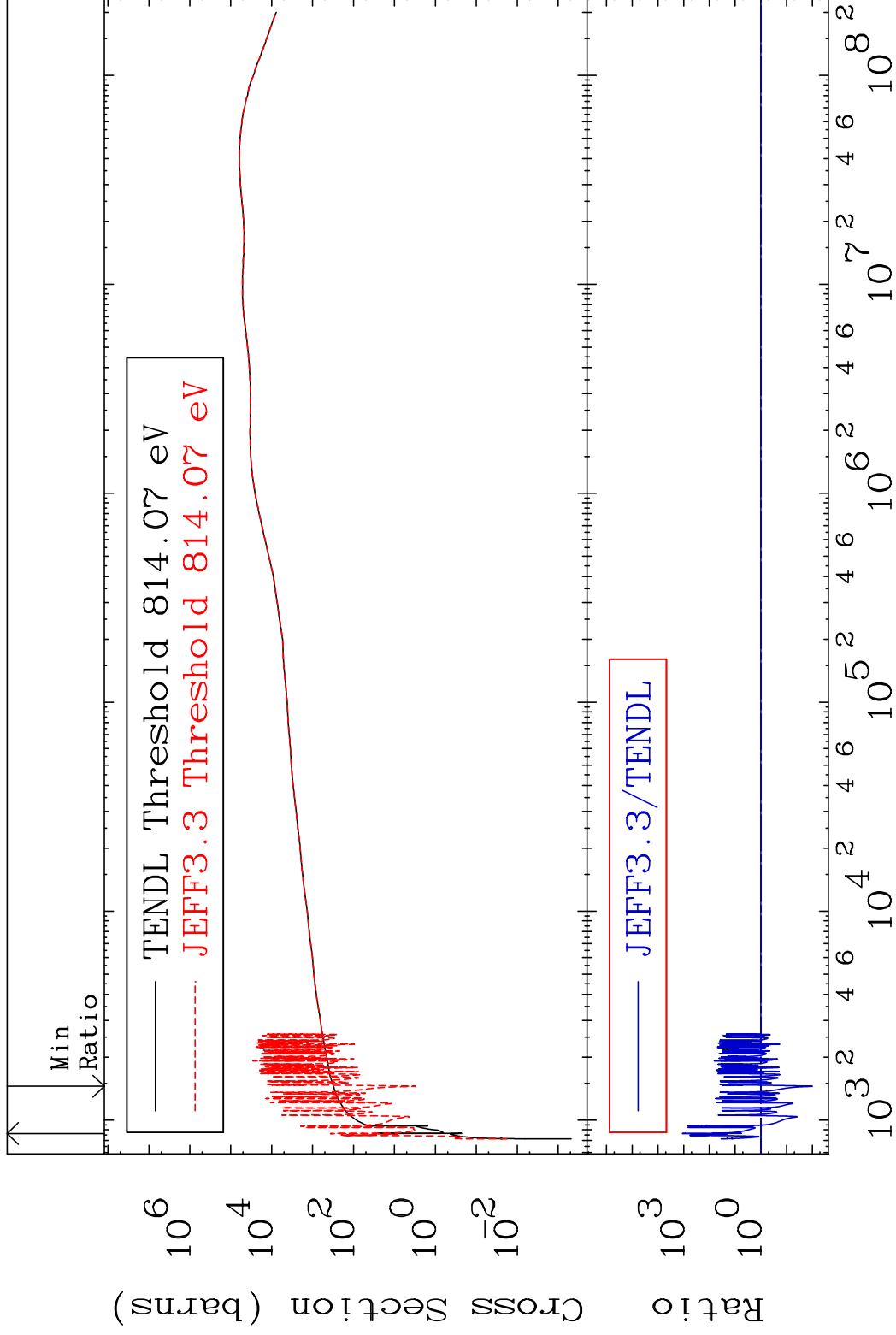
57-La-140

MAT 5731

Dpa elastic (mt2)

57-La-140

Cross Section -99.02 To 9999. %

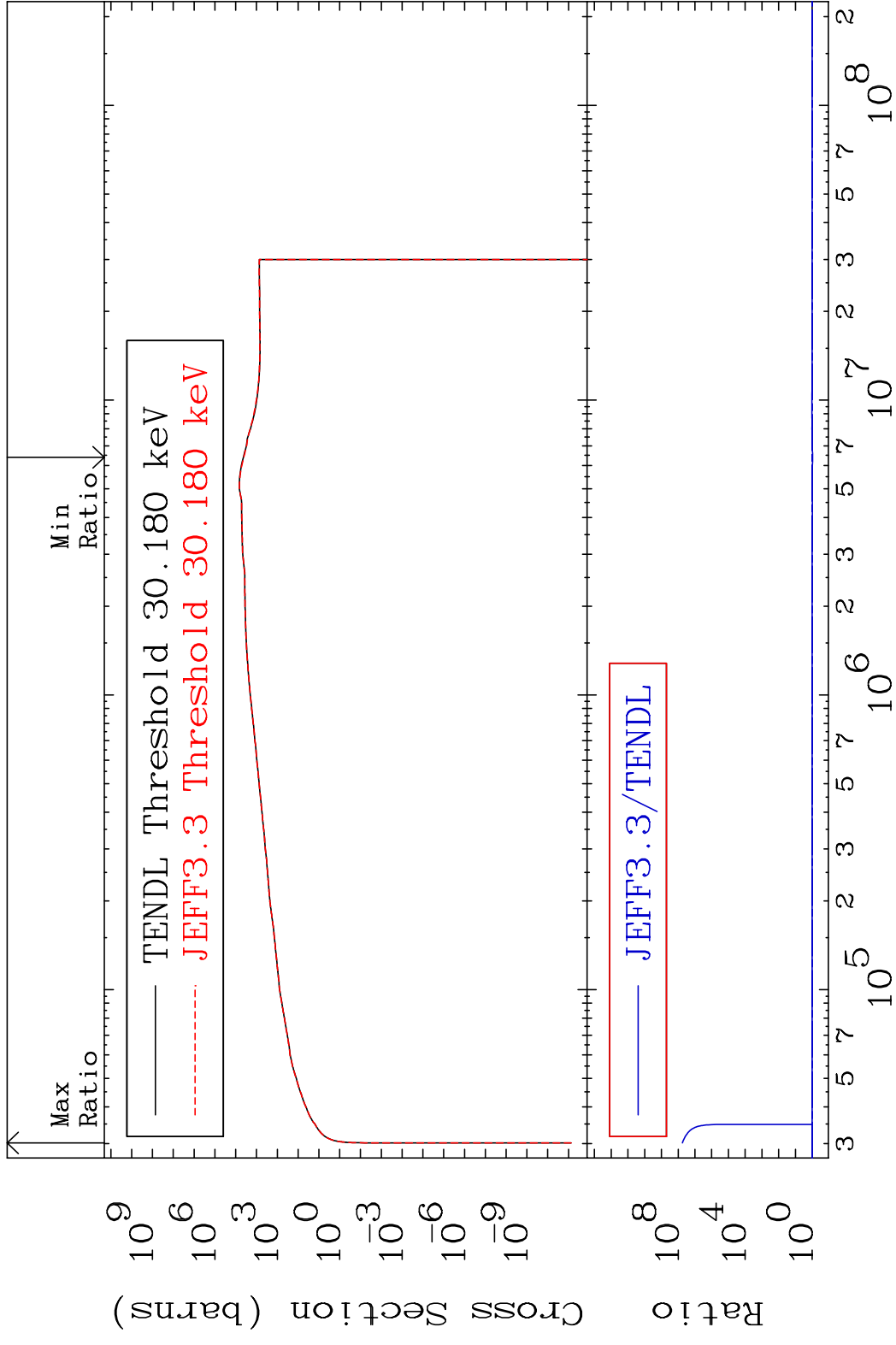


77

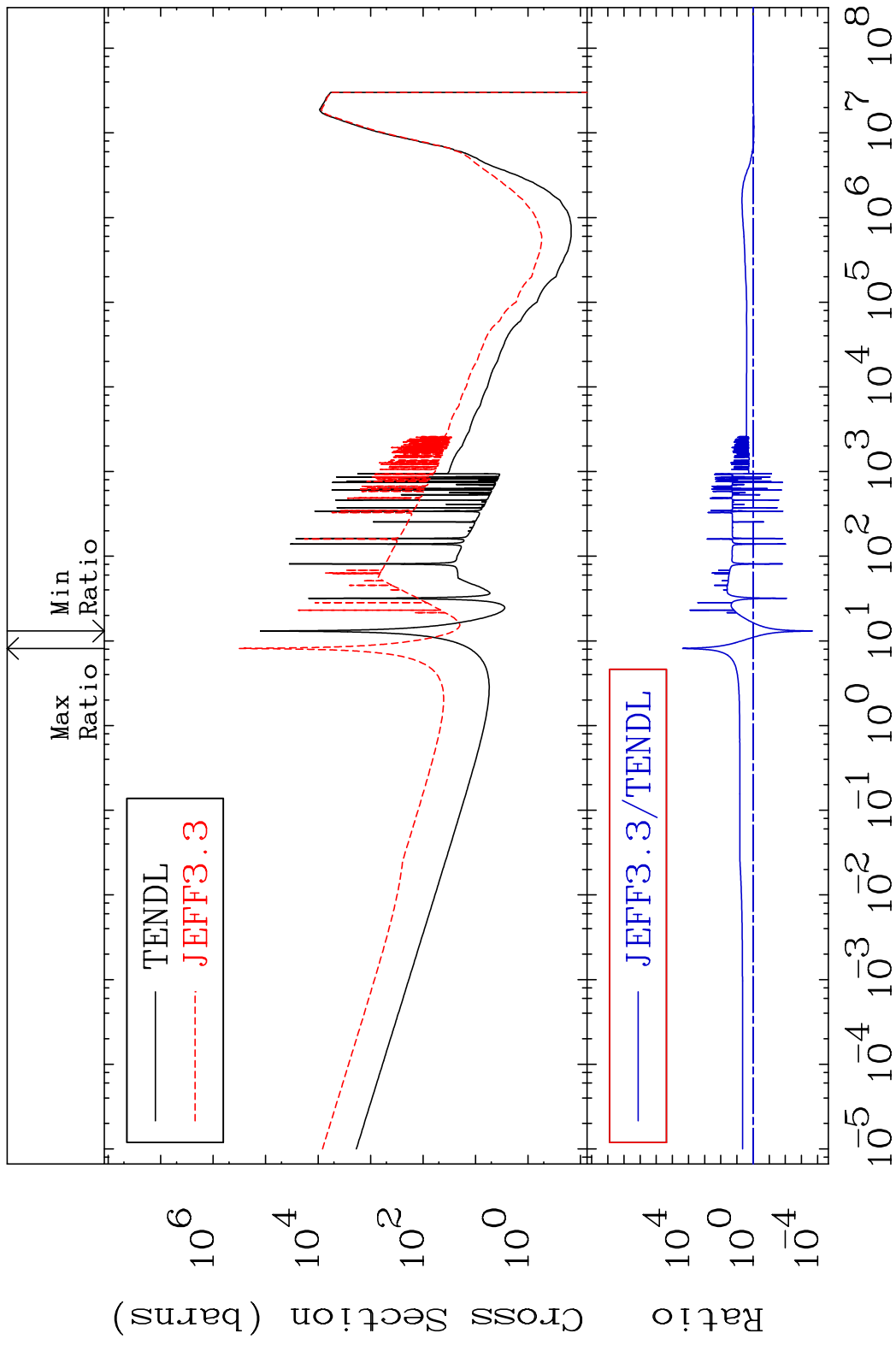
Incident Energy (eV)

57-La-140

MAT 5731 Dpa inelastic (mt51-91) 57-La-140  
 Cross Section -3.993 To 9999. %



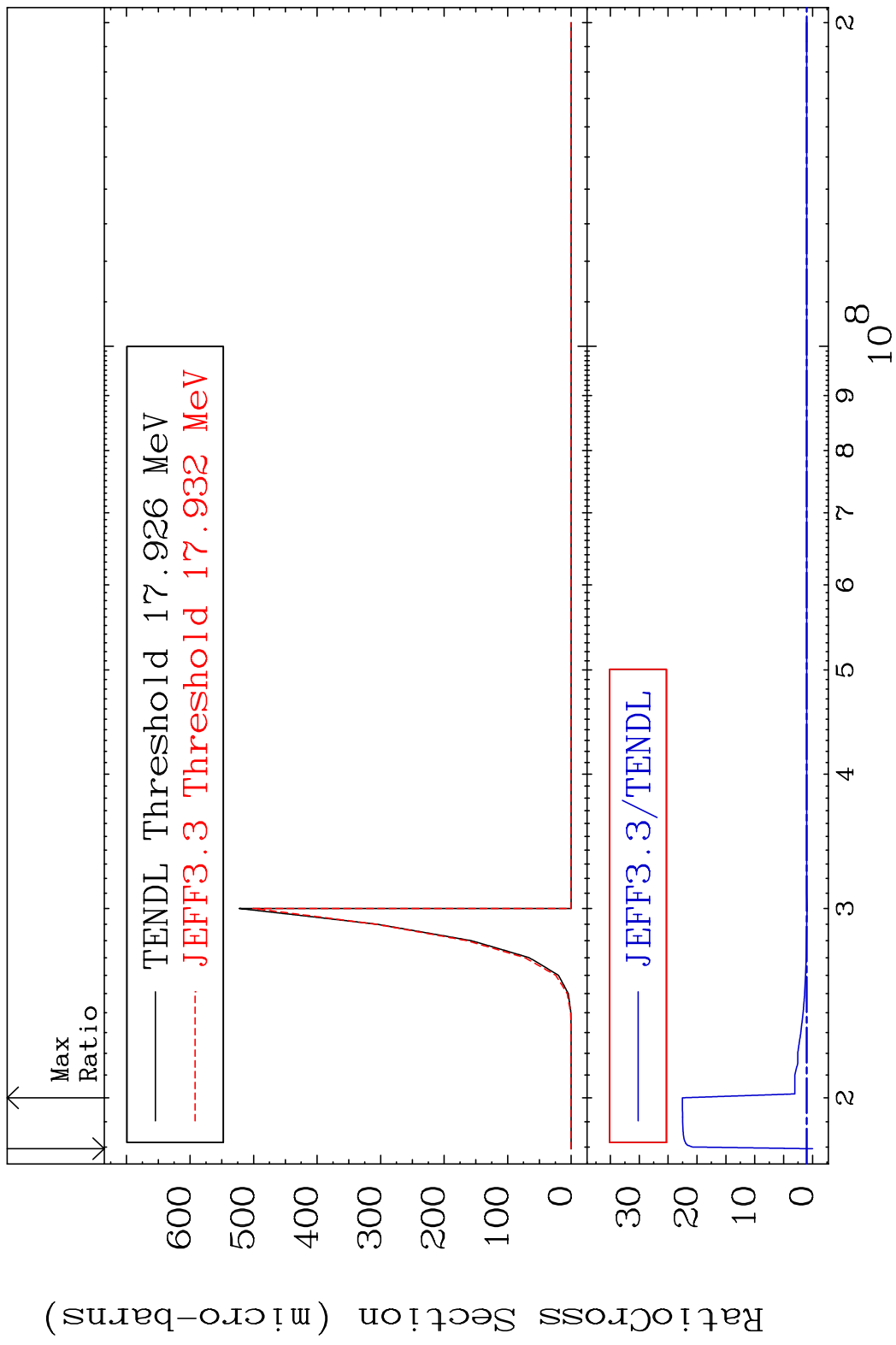
MAT 5731 Dpa disappearance (mt102 -120) 57-La-140  
 Cross Section -99.98 To 9999. %

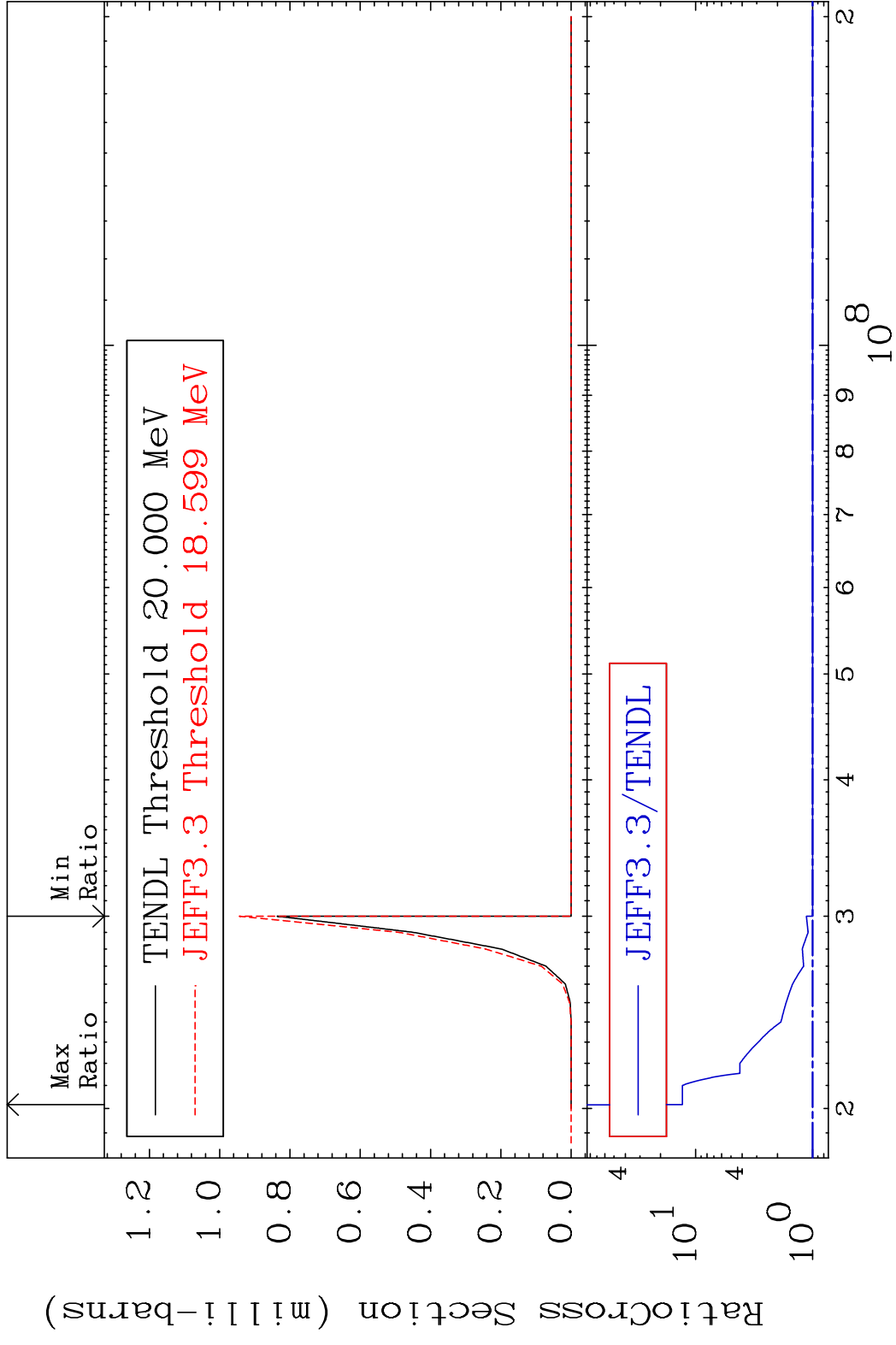


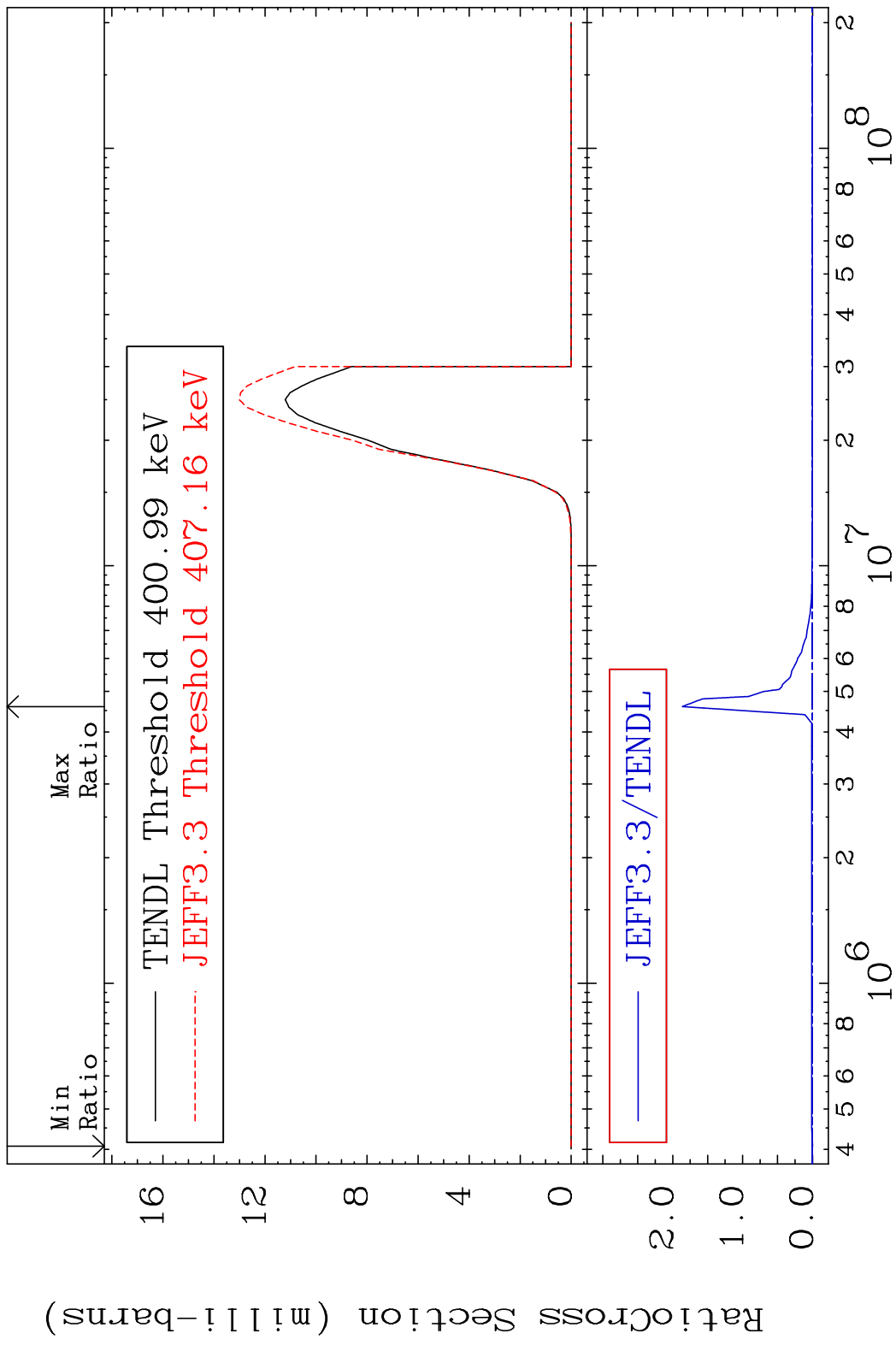
79 Incident Energy (eV) 57-La-140

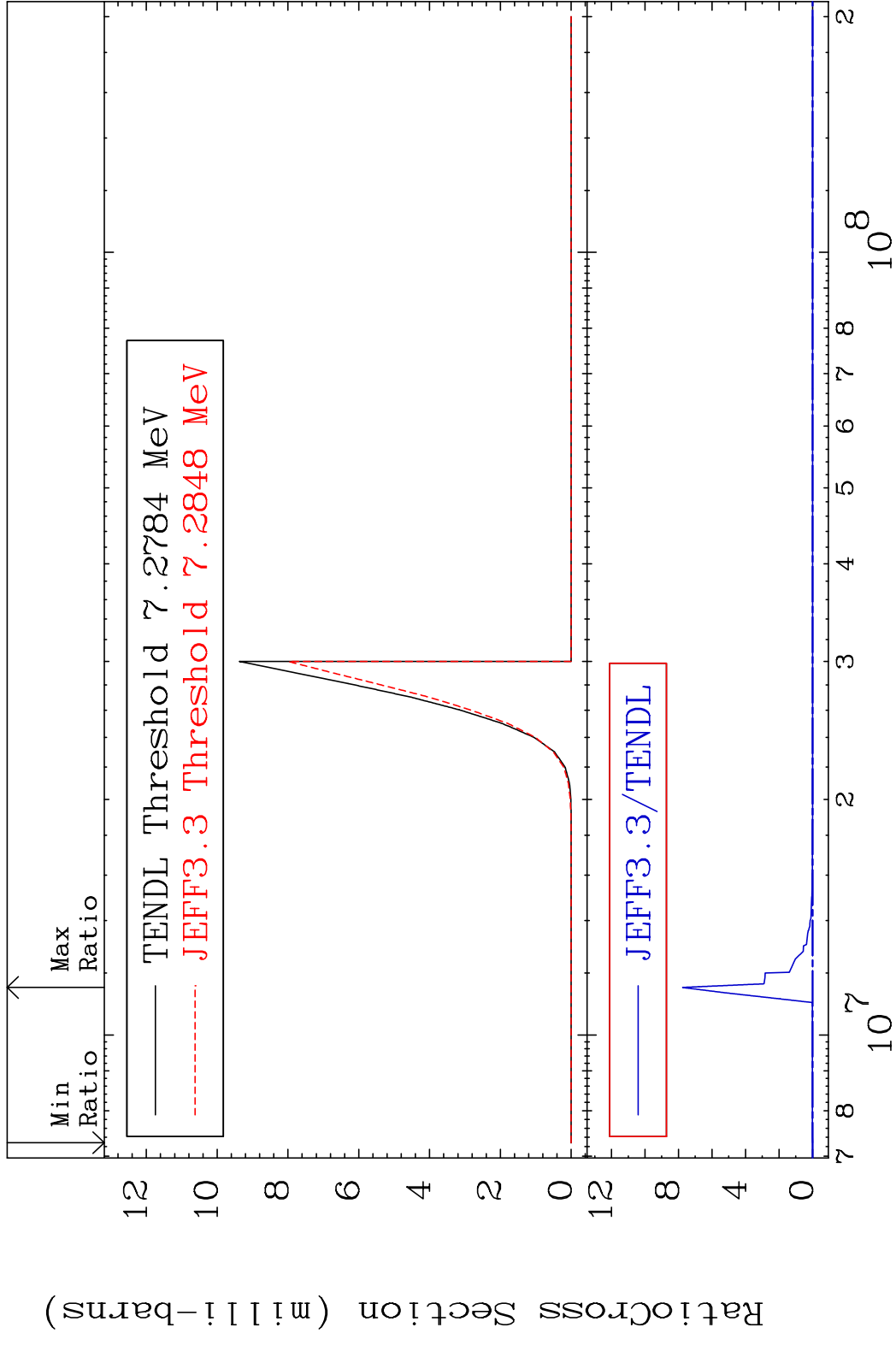


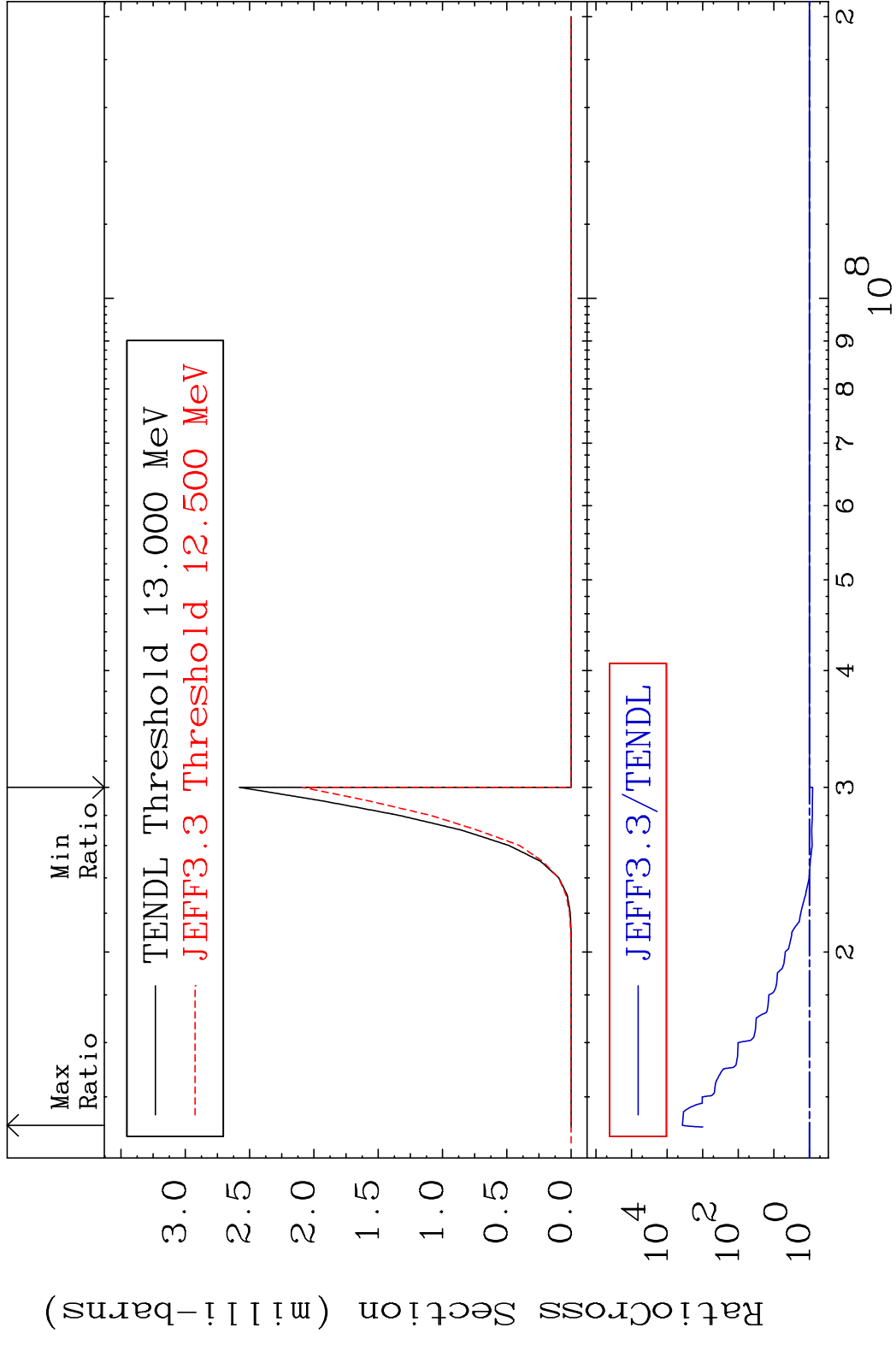
MAT 5731 (n,2n) d:56-Ba-137g 57-La-140  
 Radionuclide Production Cross Section Ratio 2154. %



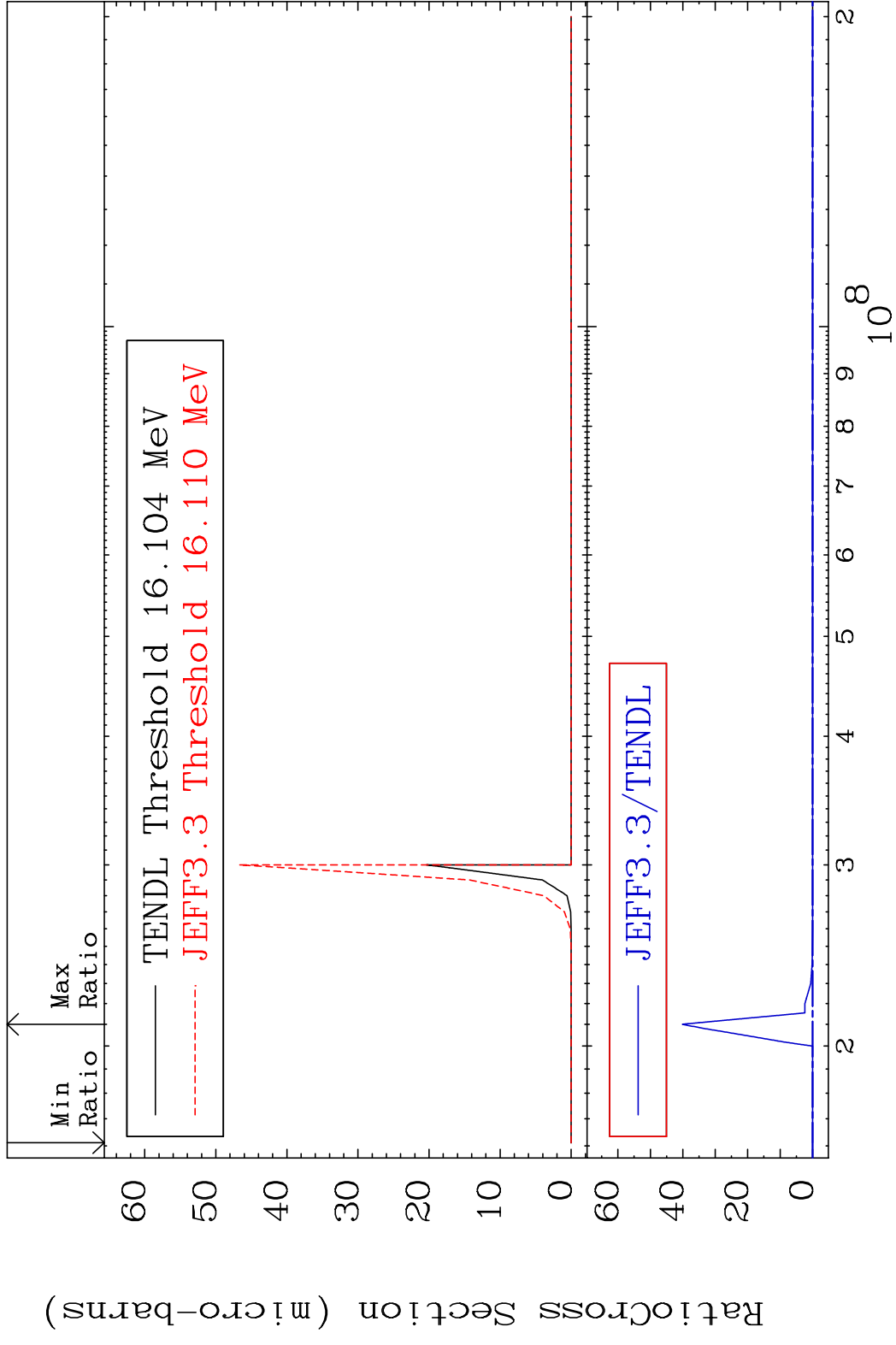


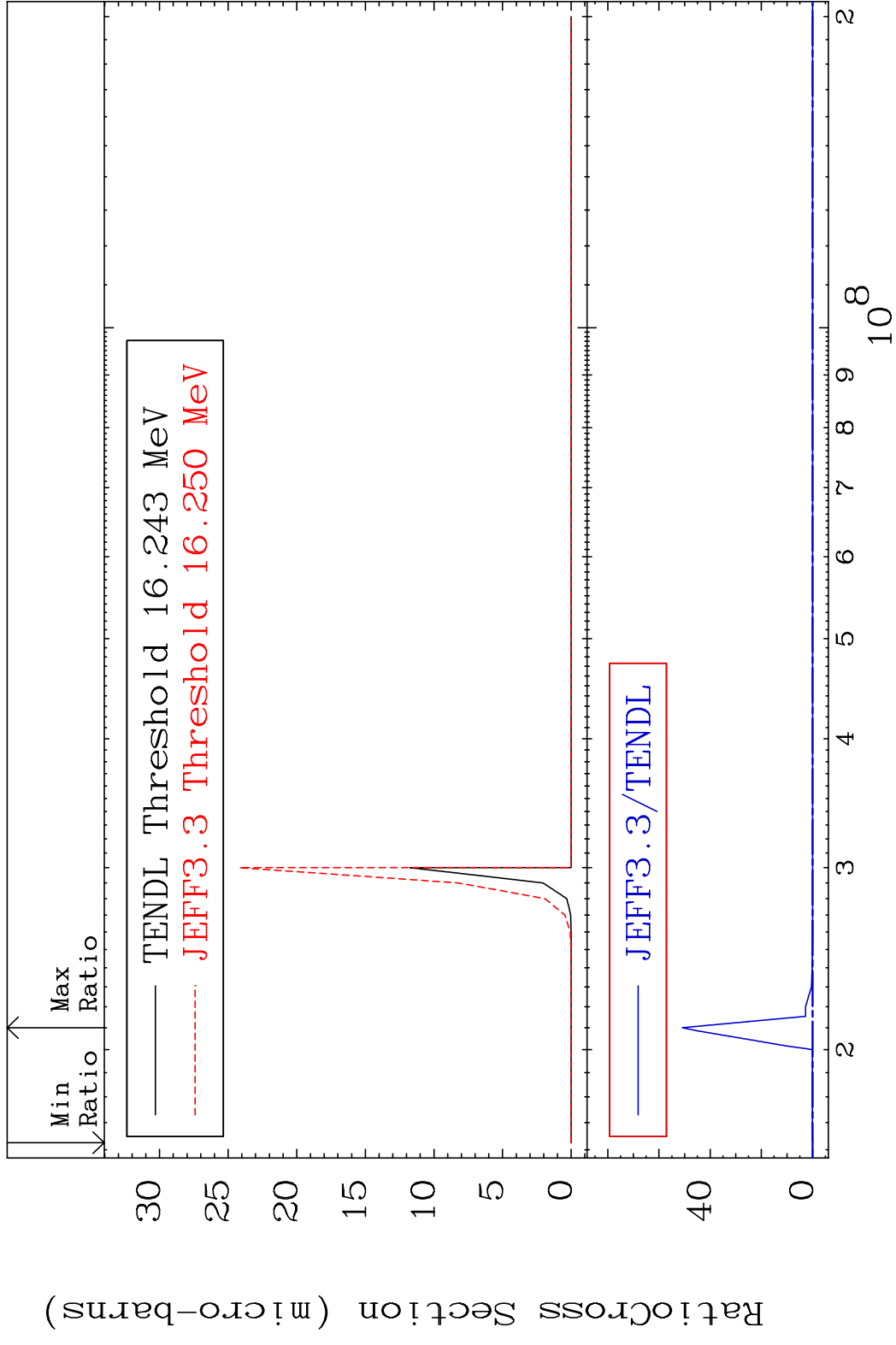


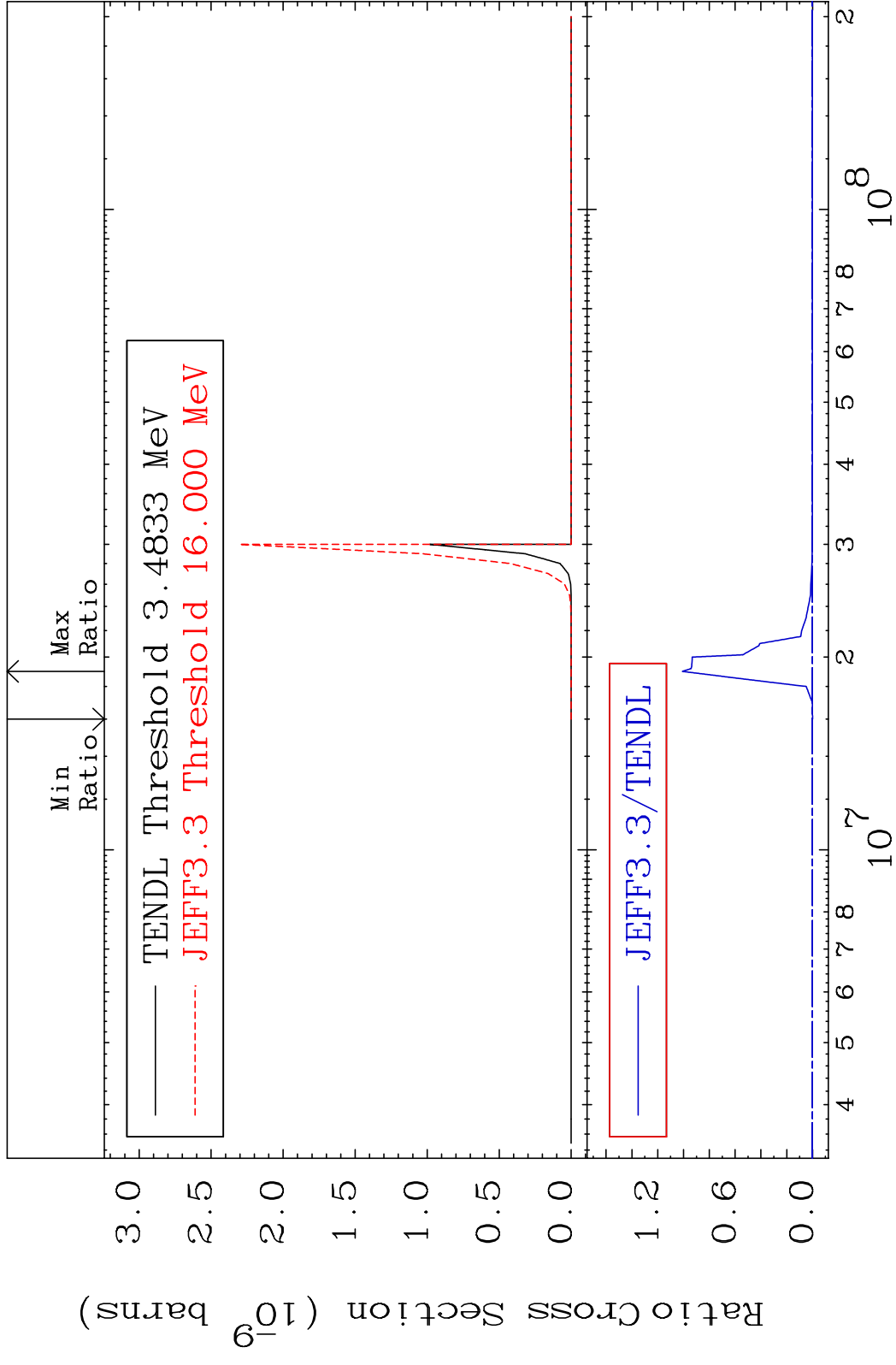




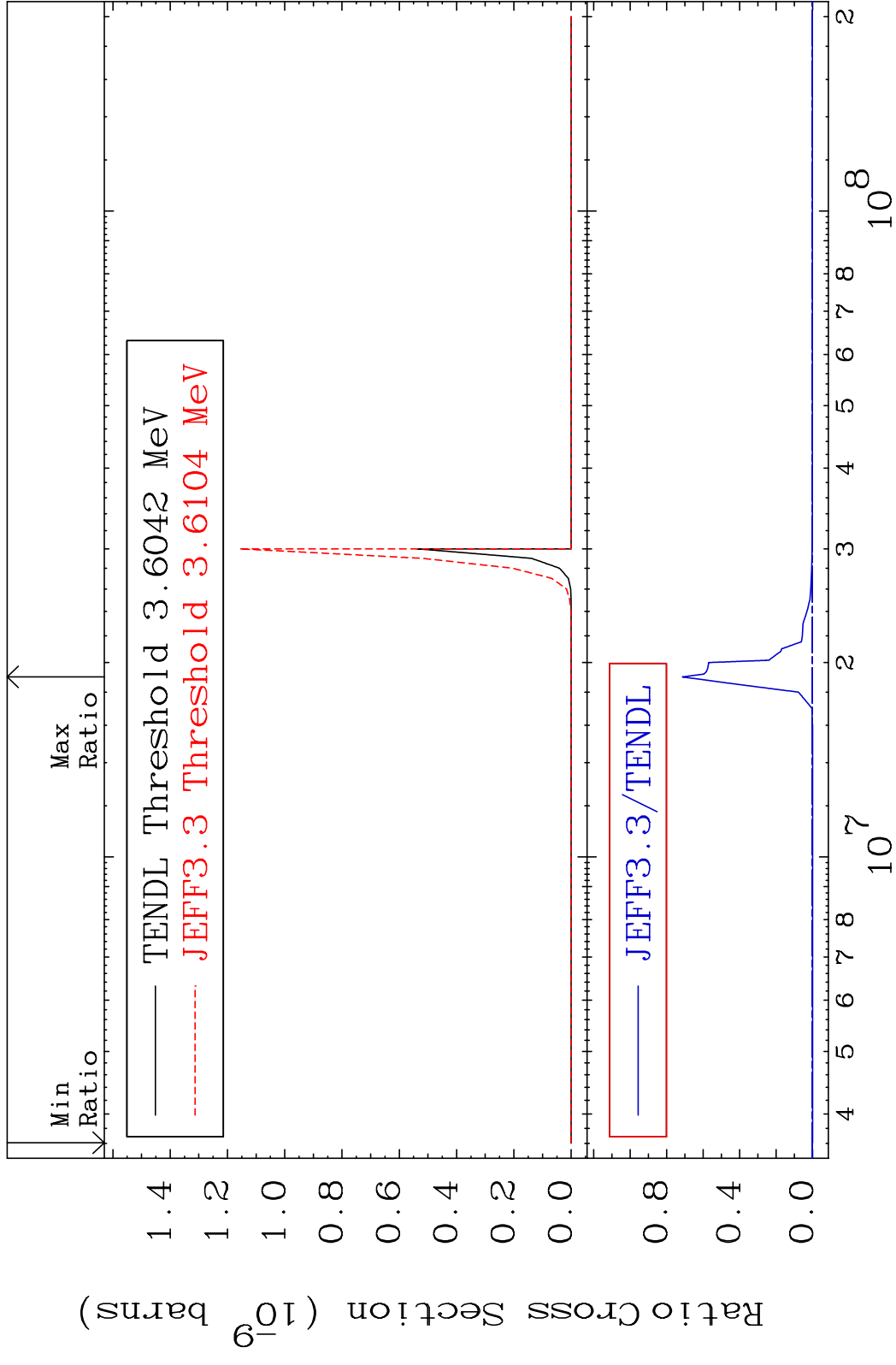
MAT 5731 (n,3n)  $\alpha$ :55-Cs-134g 57-La-140  
 Radionuclide Production Cross Section Ratio 9999. %



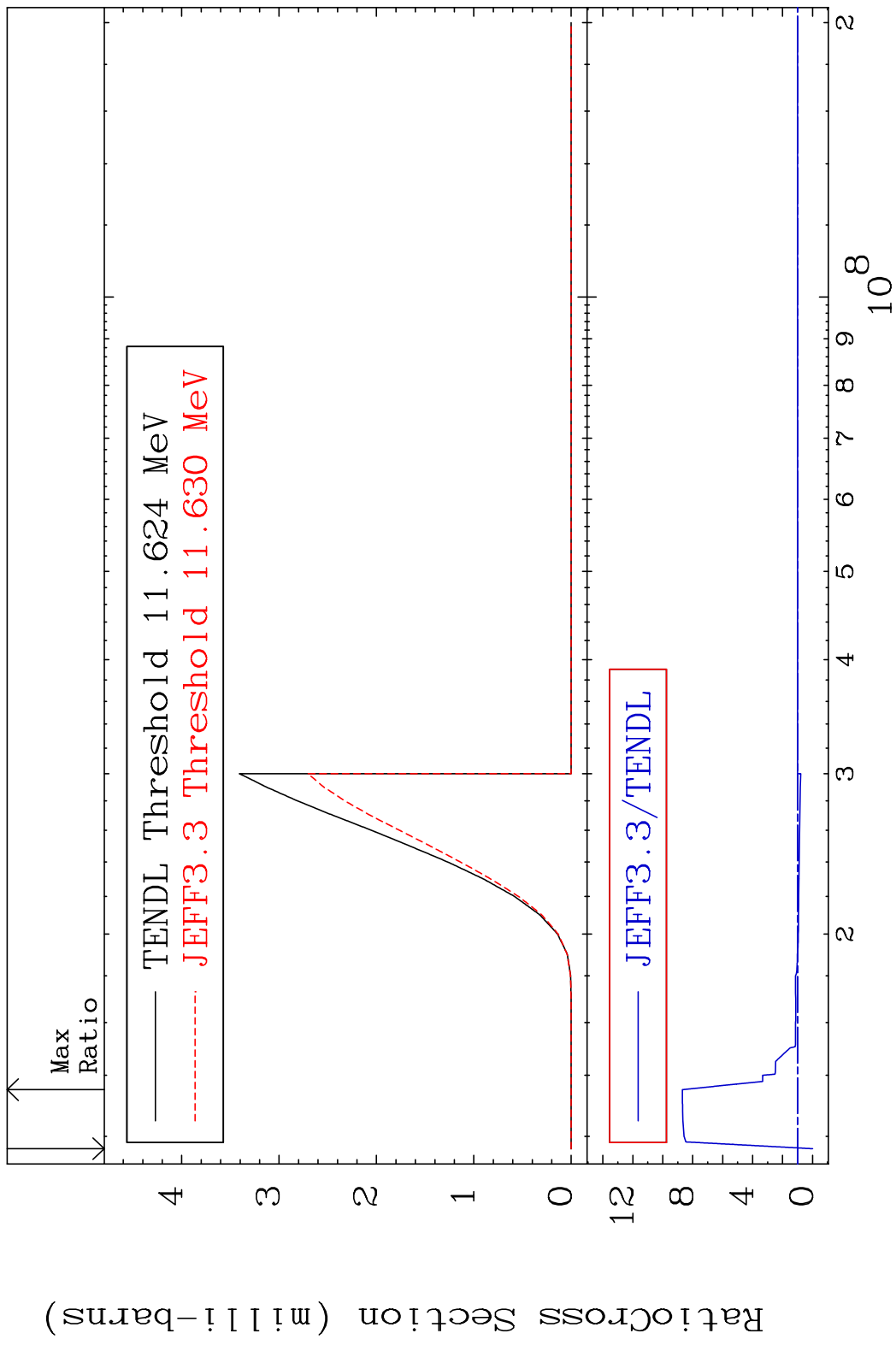




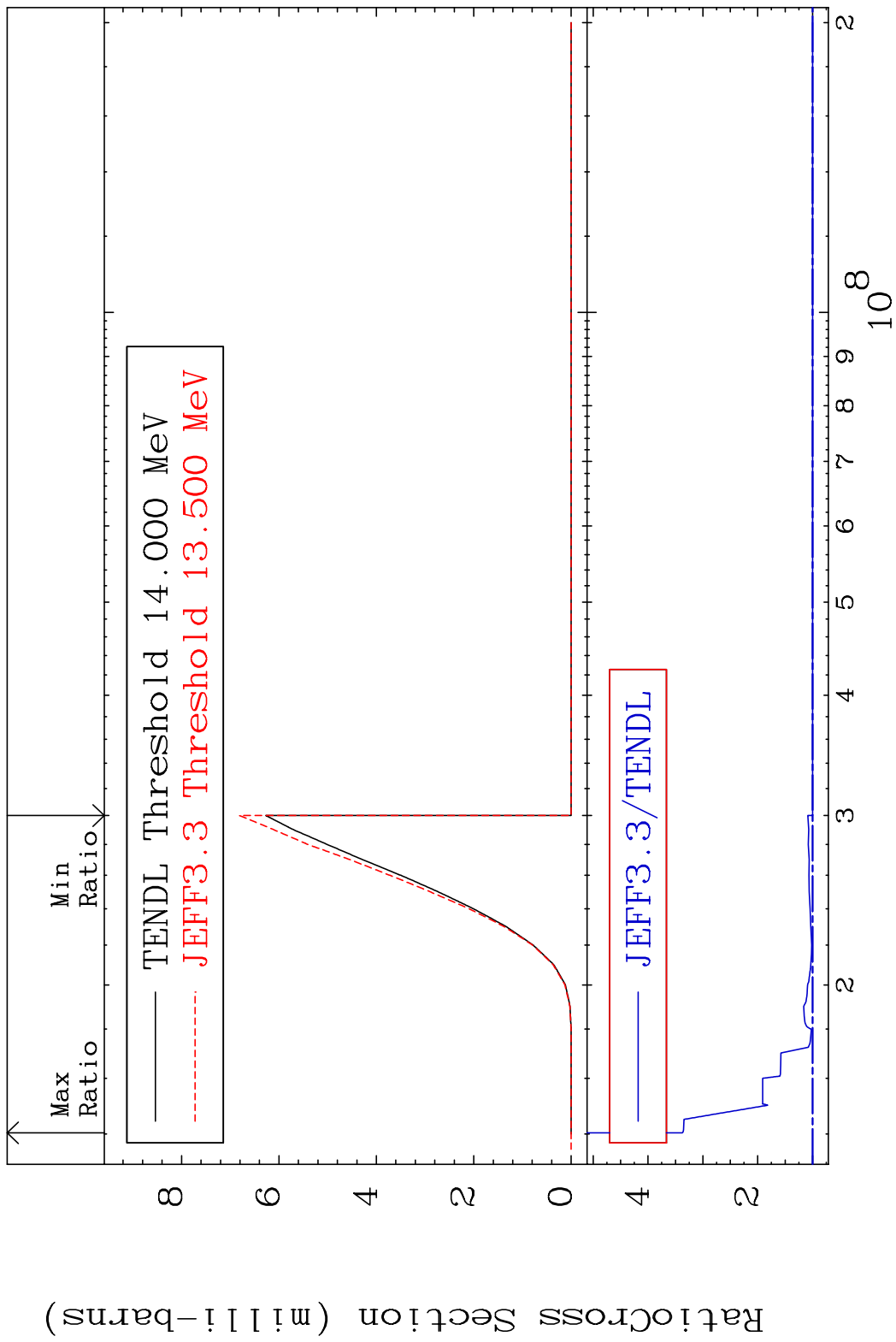


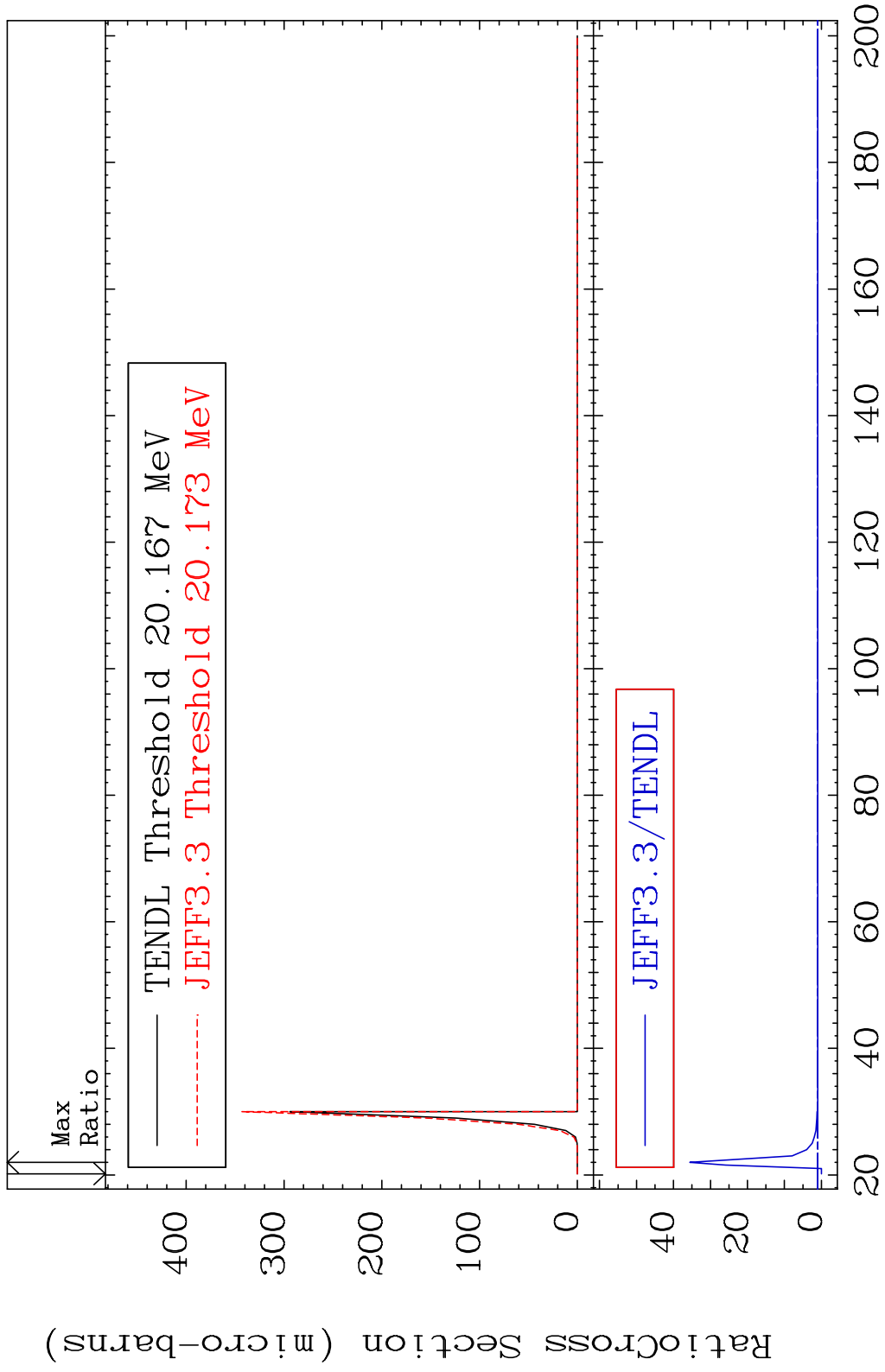


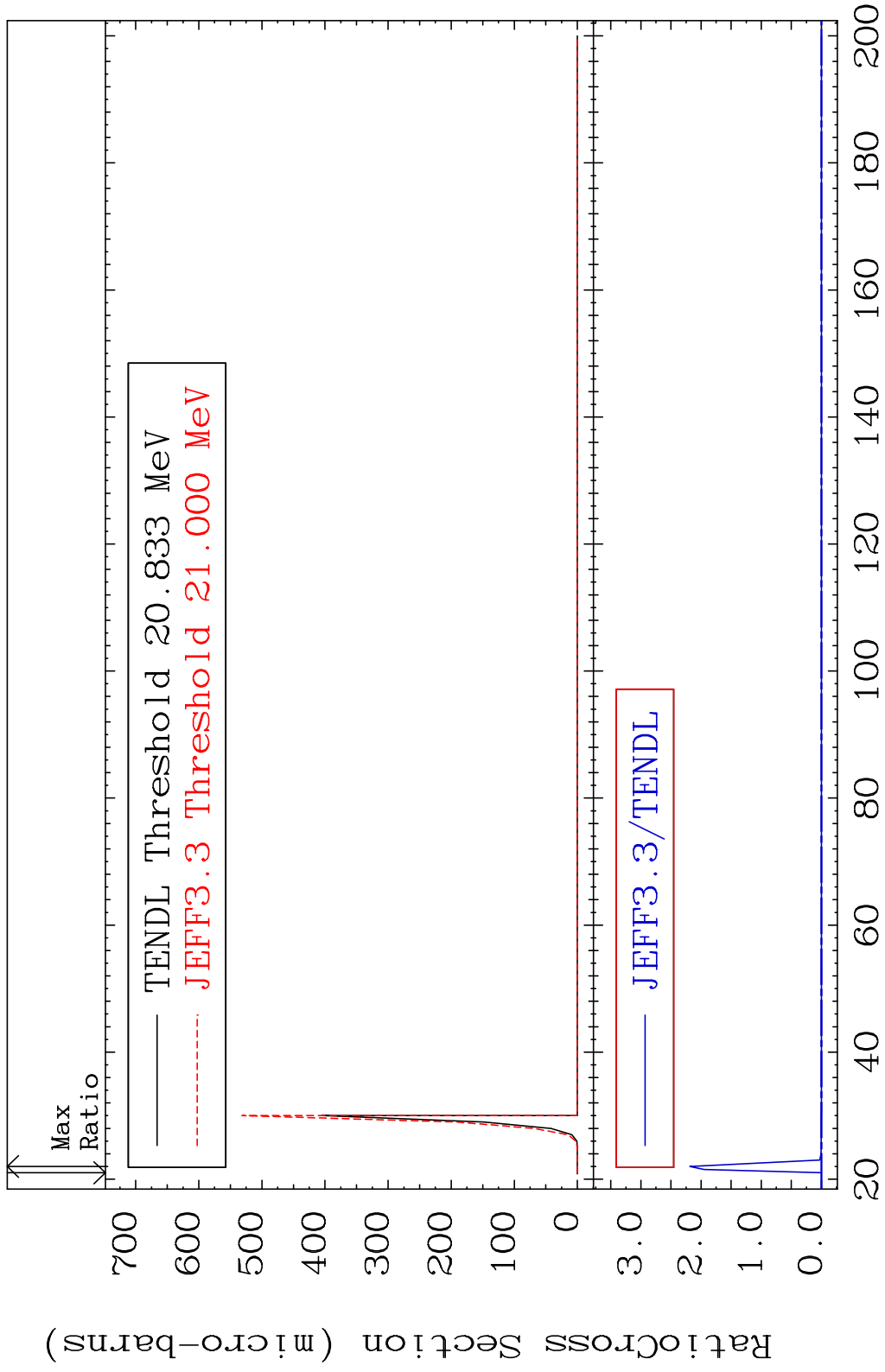
MAT 5731 (n, n') t:56-Ba-137g 57-La-140  
 Radionuclide Production Cross Section 180.0 dth 769.3 %

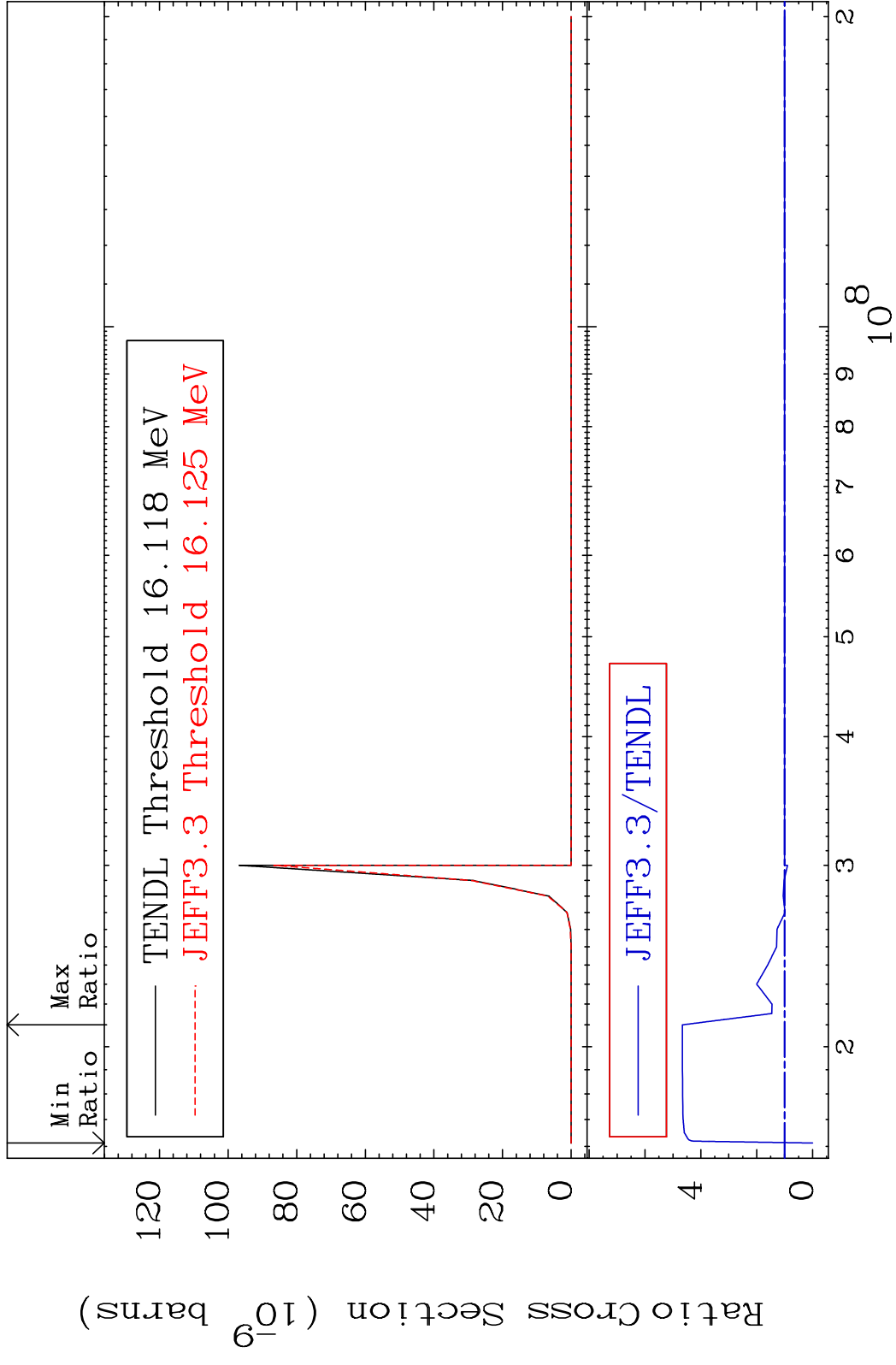


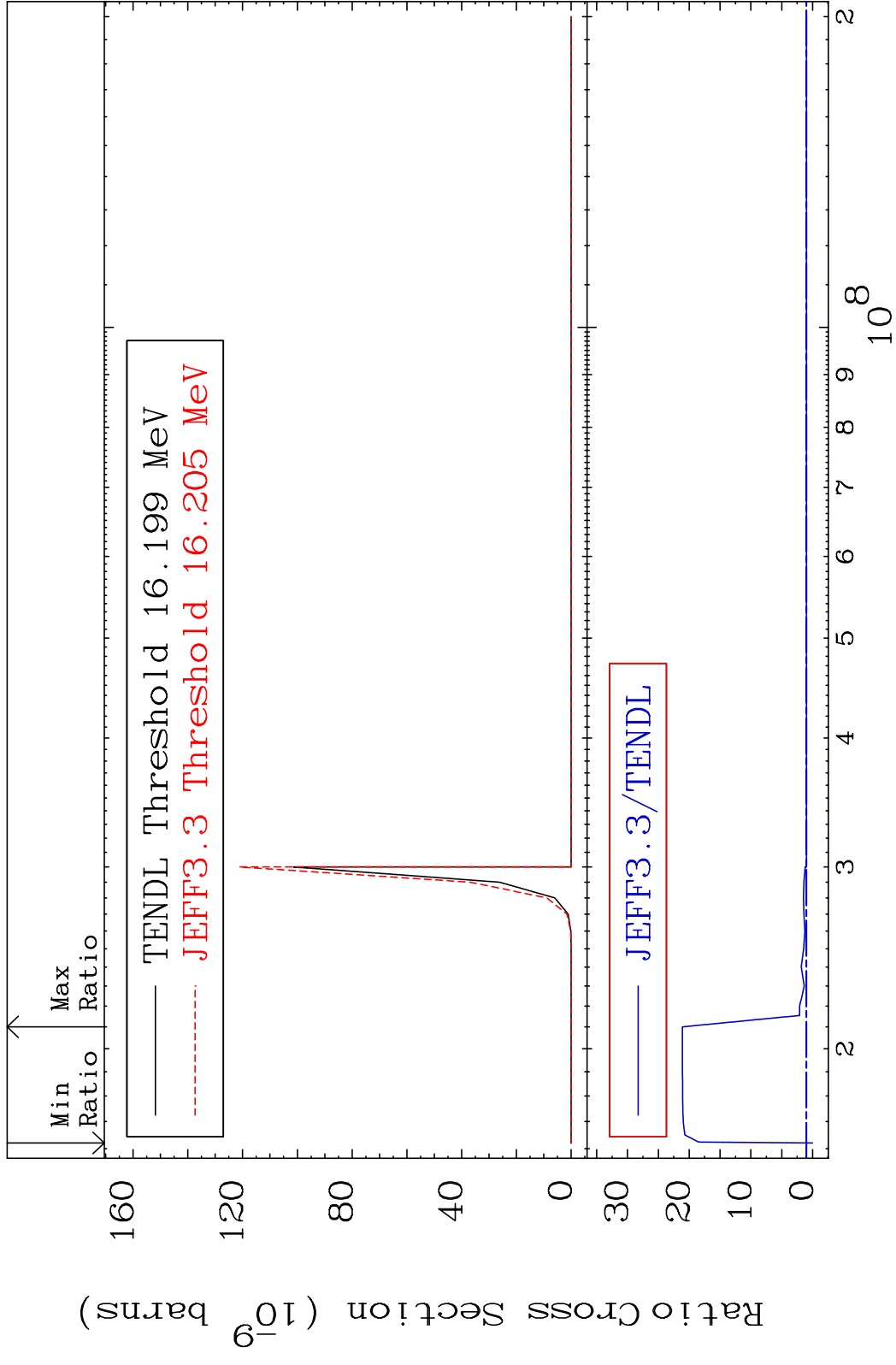
MAT 5731 (n, n') t:56-Ba-137m2 57-La-140  
 Radionuclide Production Cross Section 237.4 %



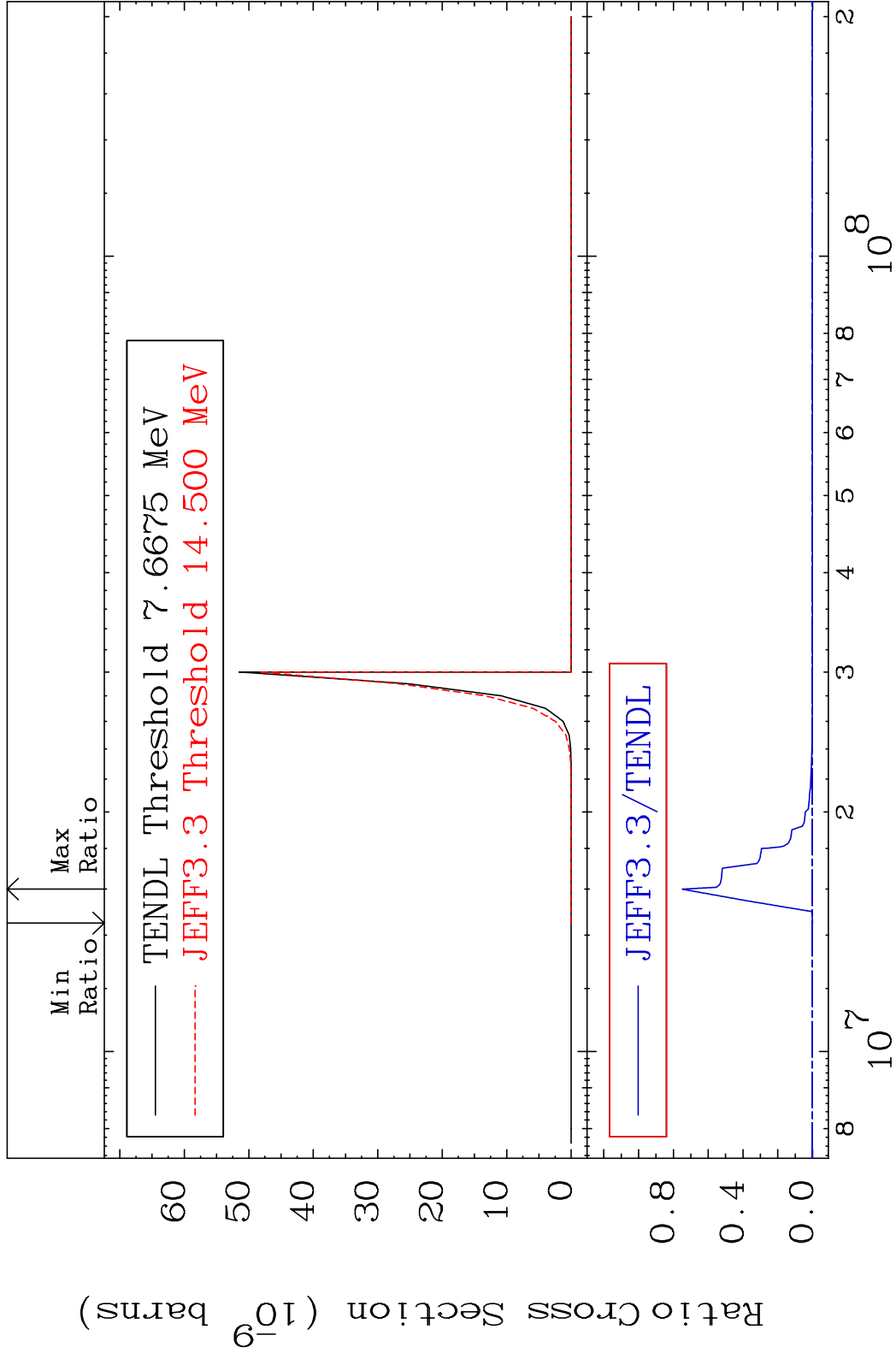




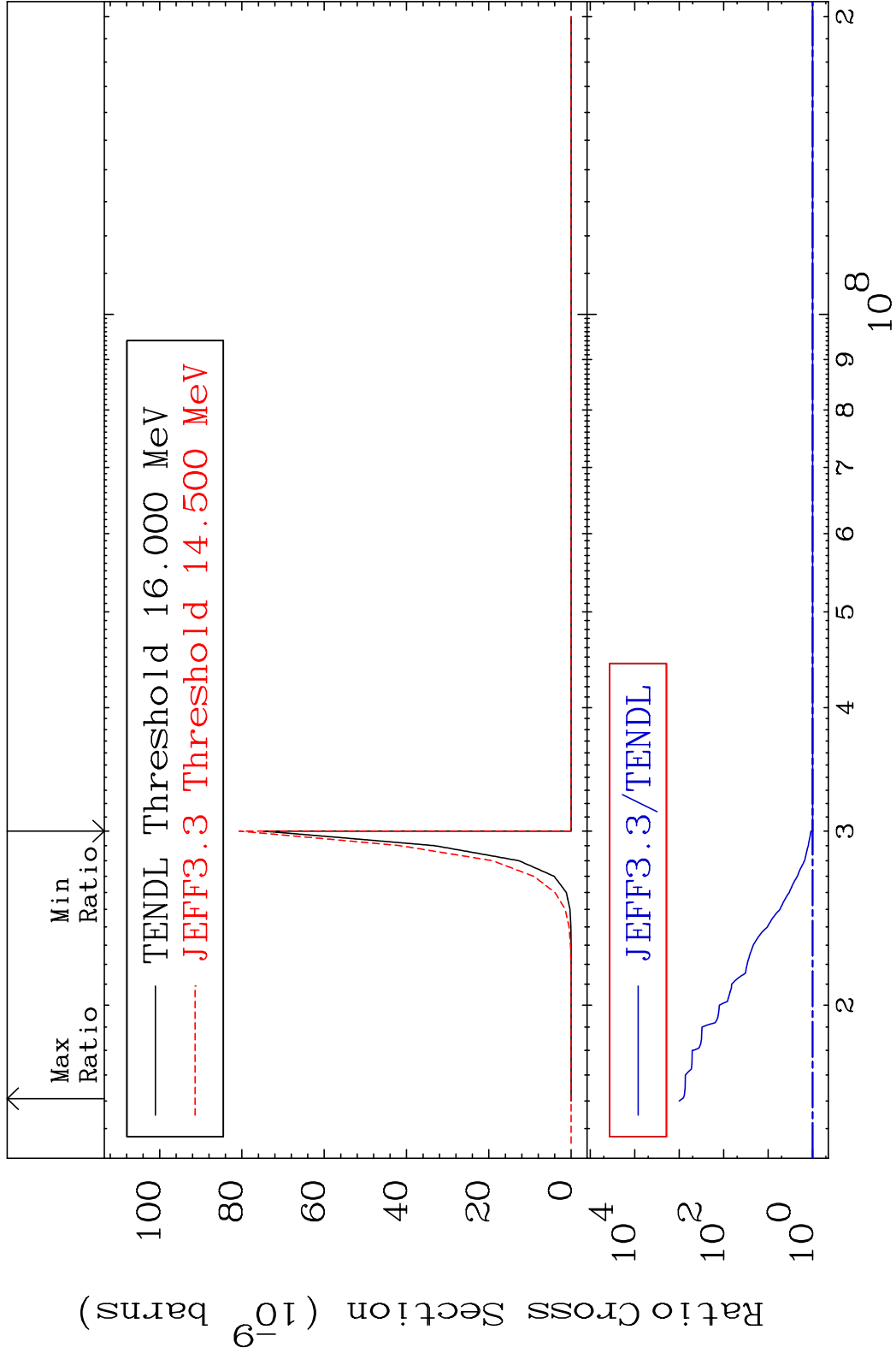




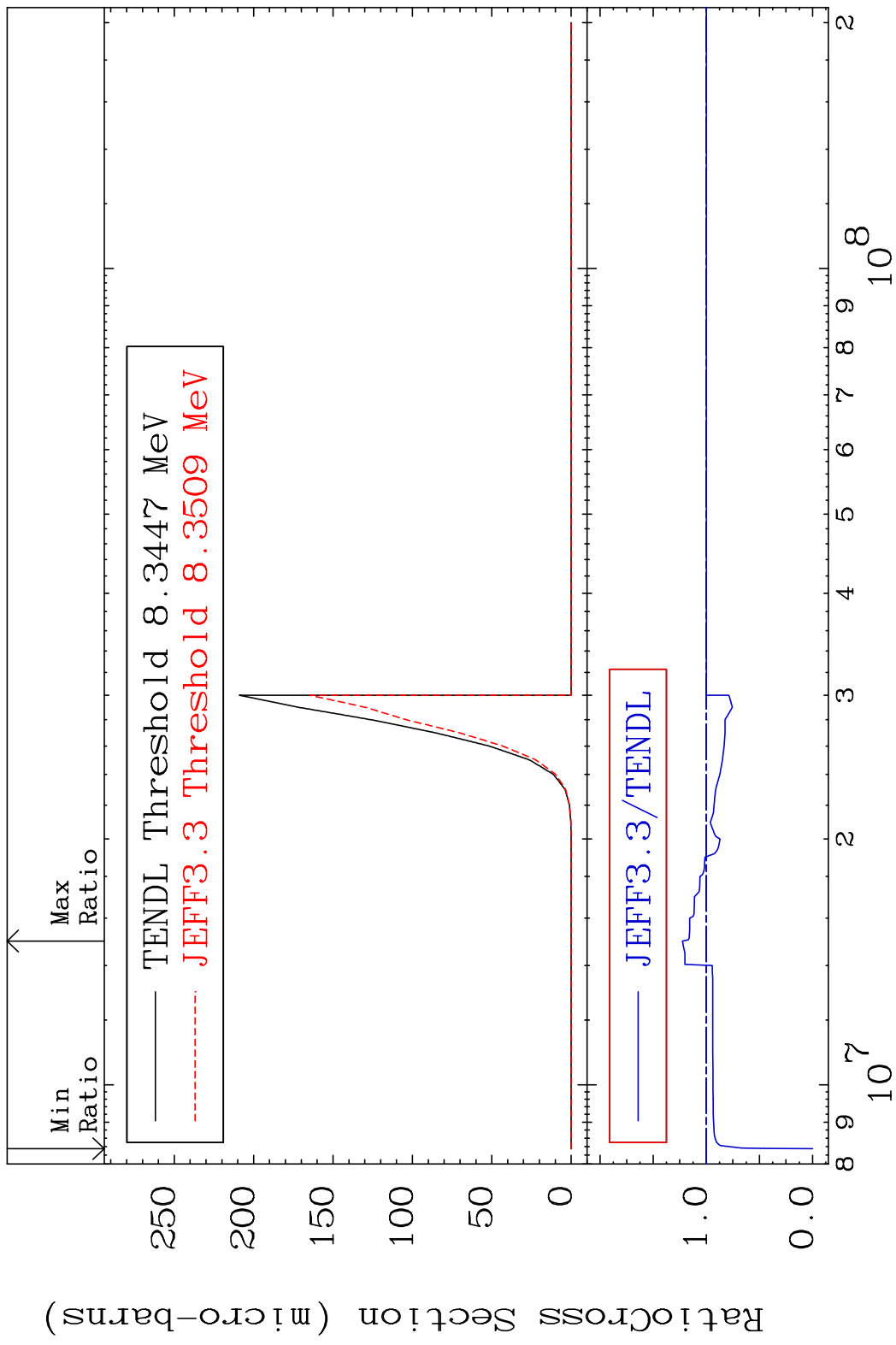
MAT 5731 (n, n') p  $\alpha$ :54-Xe-135g 57-La-140  
 Radionuclide Production Cross Section Ratio 9999. %



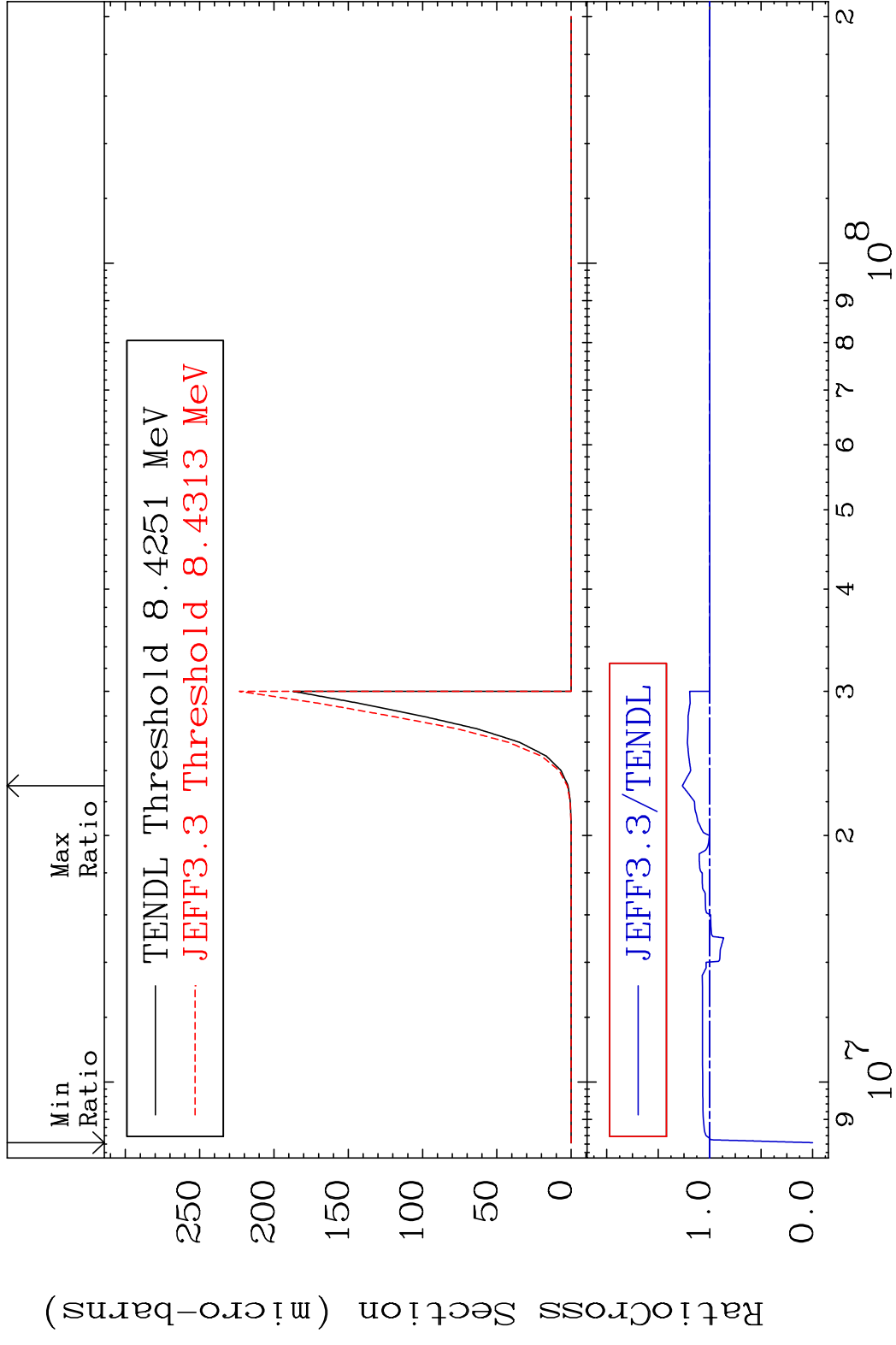




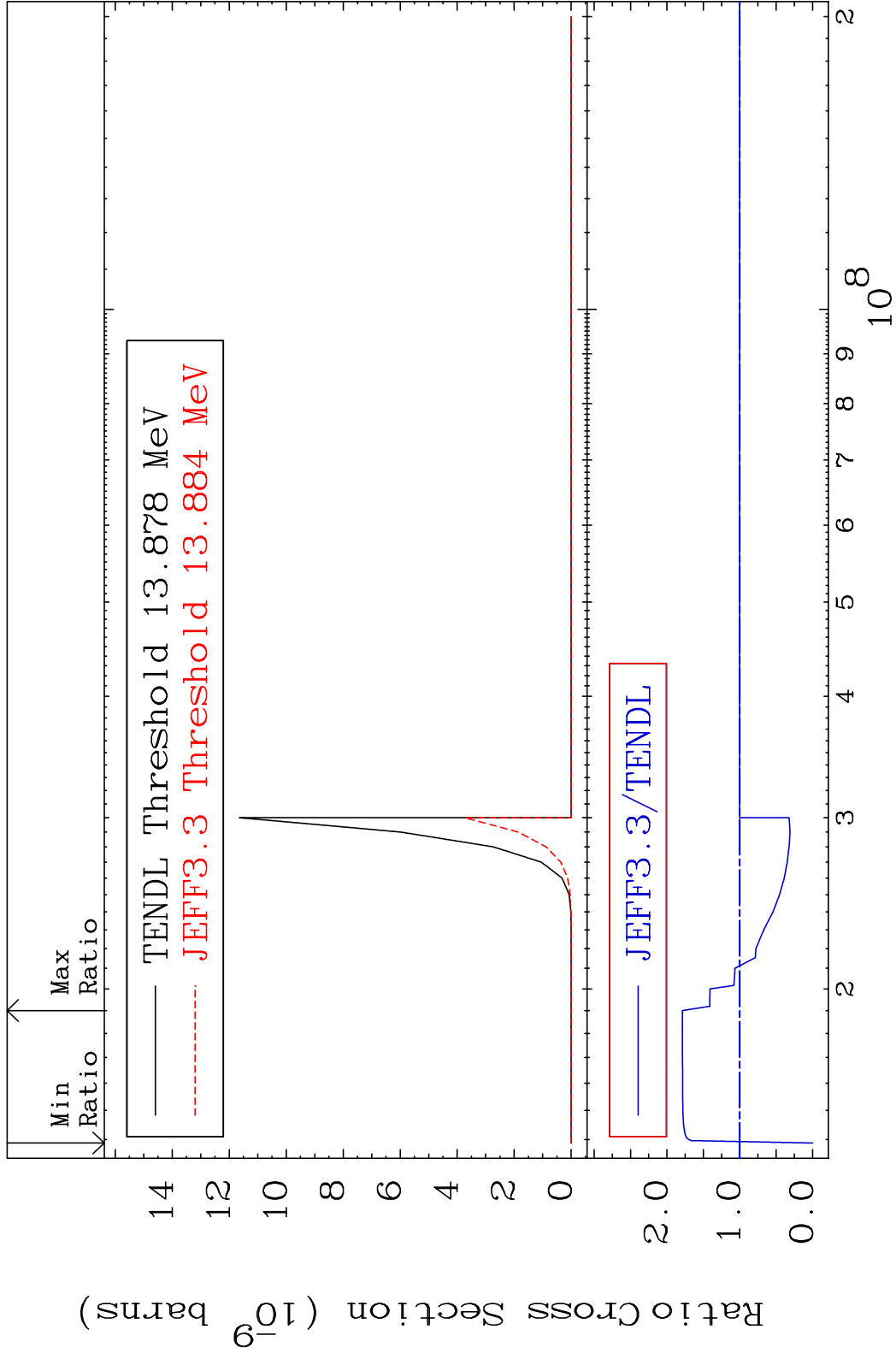
MAT 5731 (n, He-3): 55-Cs-138g 57-La-140  
 Radionuclide Production Cross Section Ratio 22.56 %



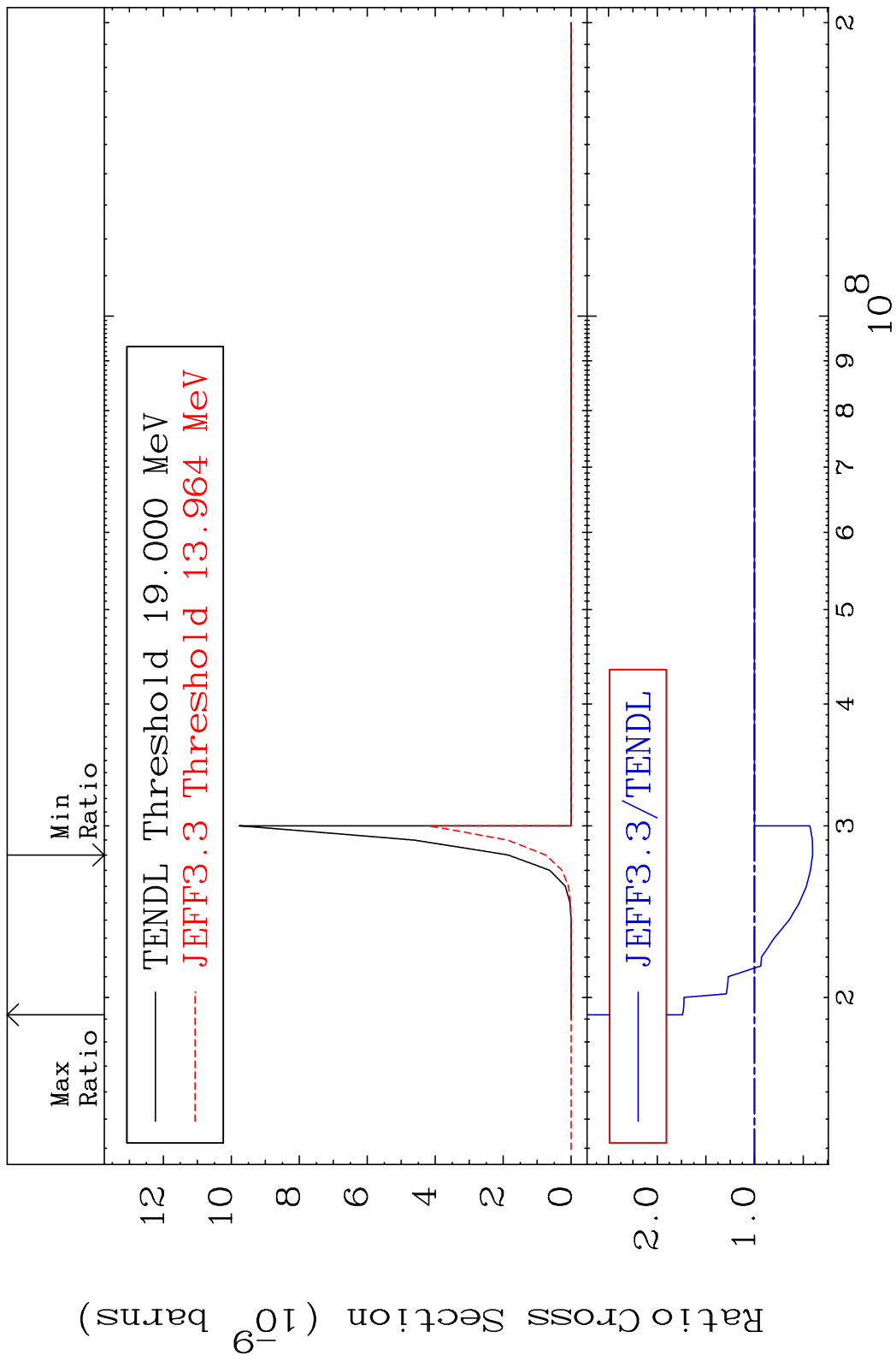
MAT 5731 (n, He-3) : 55-Cs-138m3 57-La-140  
 Radionuclide Production Cross Section 180.01 dth 26.52 %



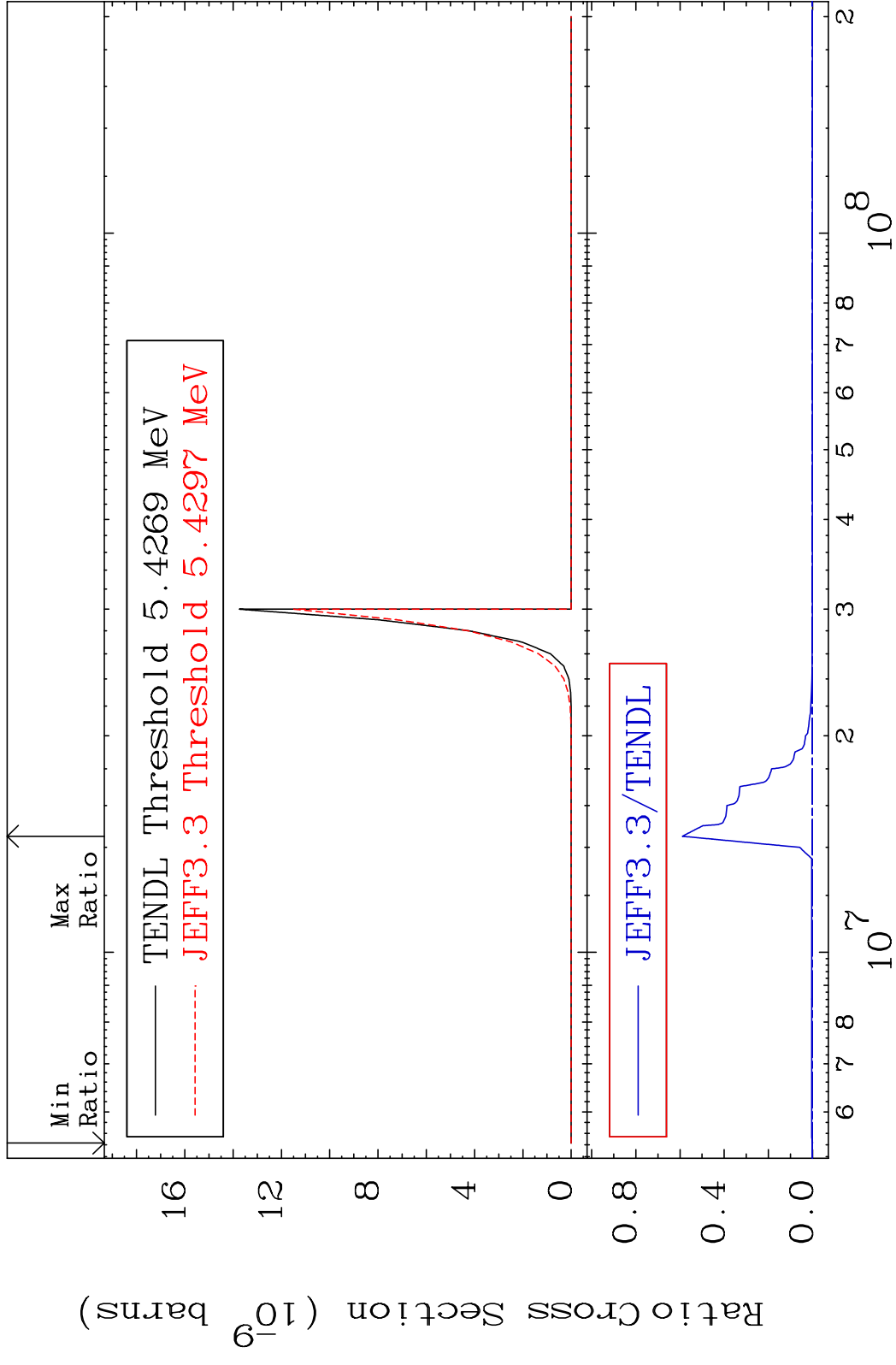
MAT 5731 (n, p) d:55-Cs-138g 57-La-140  
 Radionuclide Production Cross Section 138.01 dth 78.82 %



MAT 5731 (n, p) d:55-Cs-138m3 57-La-140  
 Radionuclide Production Cross Section 58.67 d/o 74.19 %



100 Incident Energy (eV) 57-La-140



MAT 5731 (n, d)  $\alpha$ :54-Xe-135m2 57-La-140  
 Radionuclide Production Cross Section, %

