

Program Complot  
(Version 2021-1)

by

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Press Mouse Button to Start

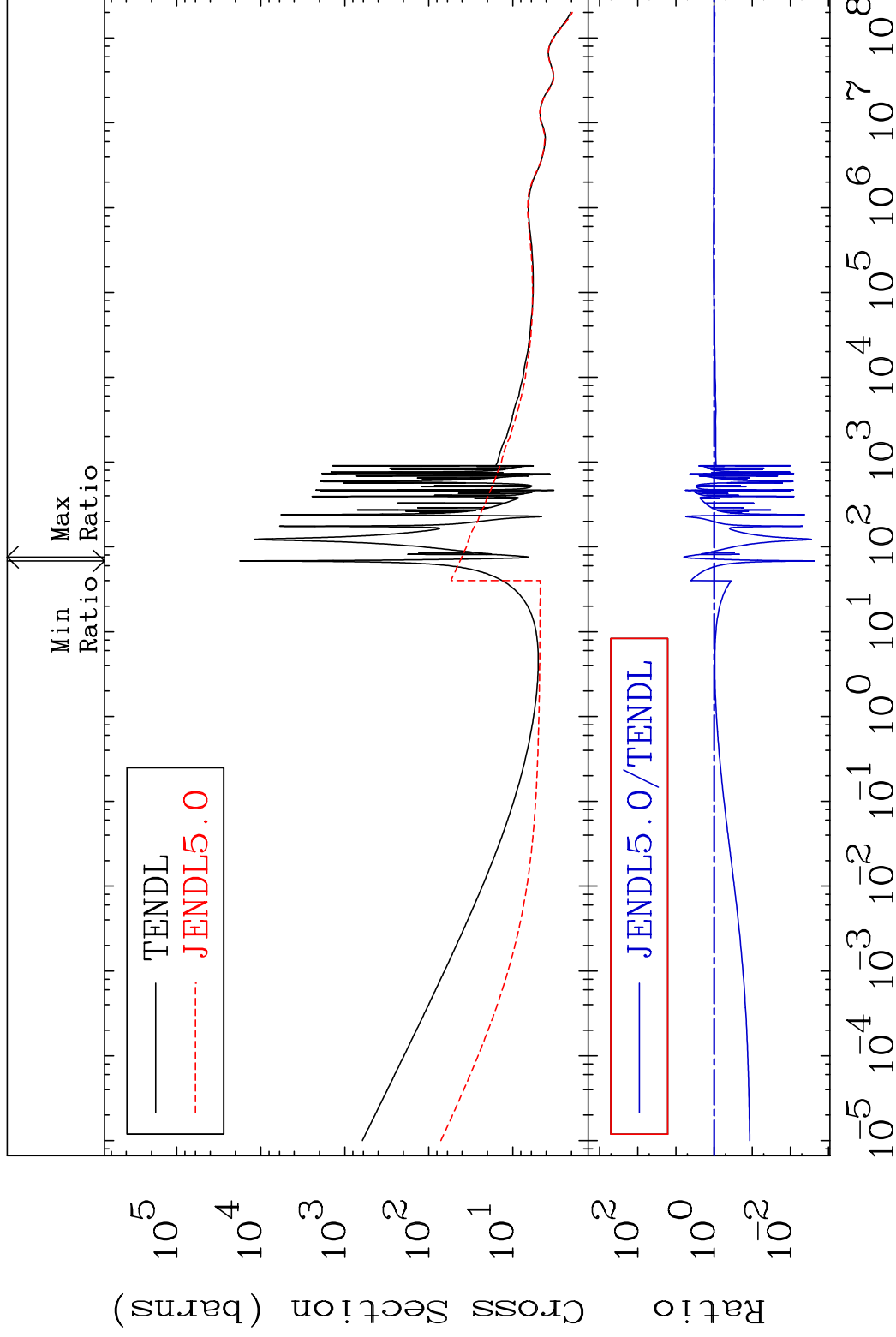
MAT 5137

Total

51-Sb-125

Cross Section

-99.76 To 526.4 %



1

Incident Energy (eV)

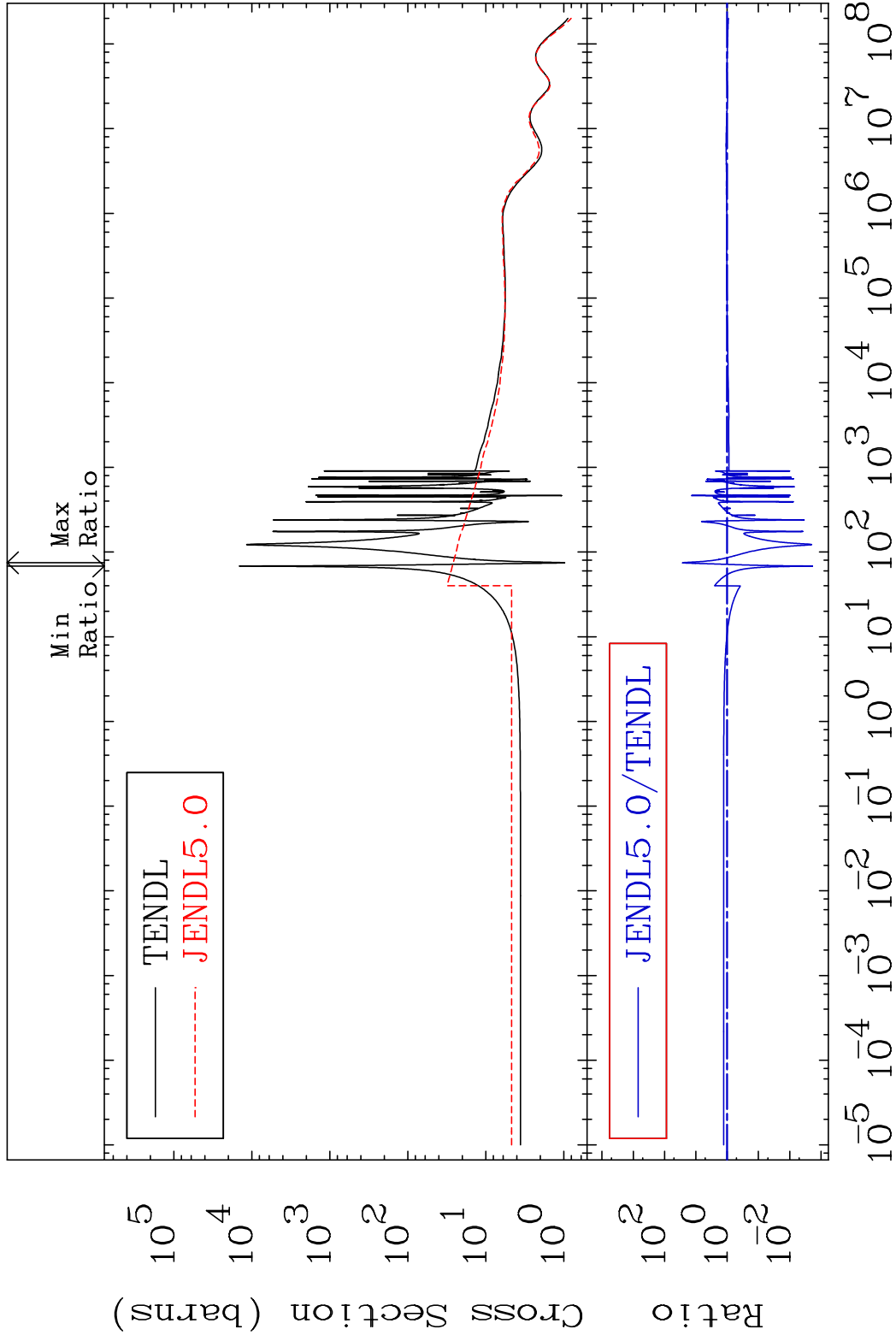
51-Sb-125

MAT 5137

Elastic

51-Sb-125

Cross Section -99.81 To 2597. %

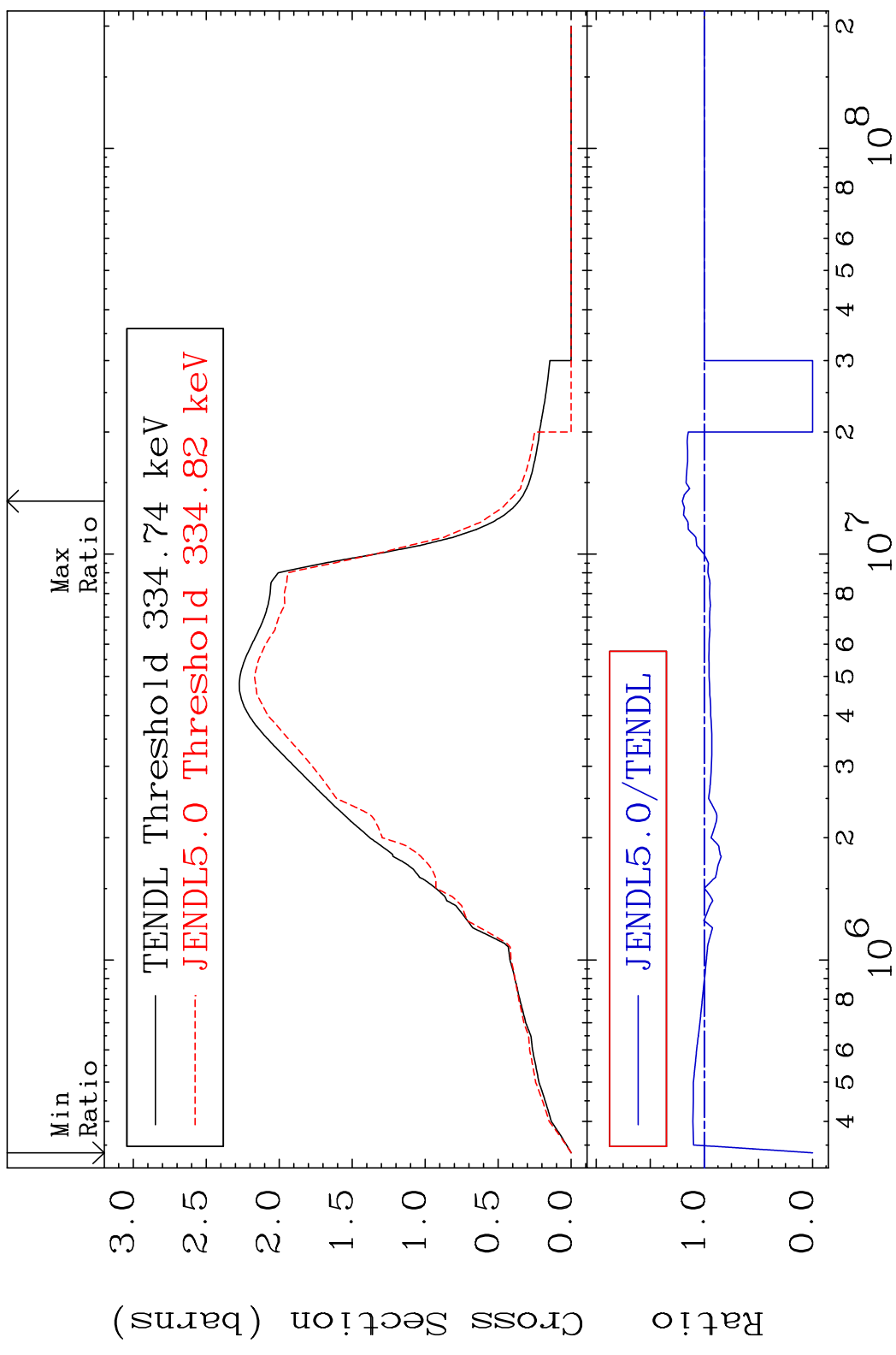


MAT 5137

Inelastic

51-Sb-125

Cross Section -100.0 To 20.33 %

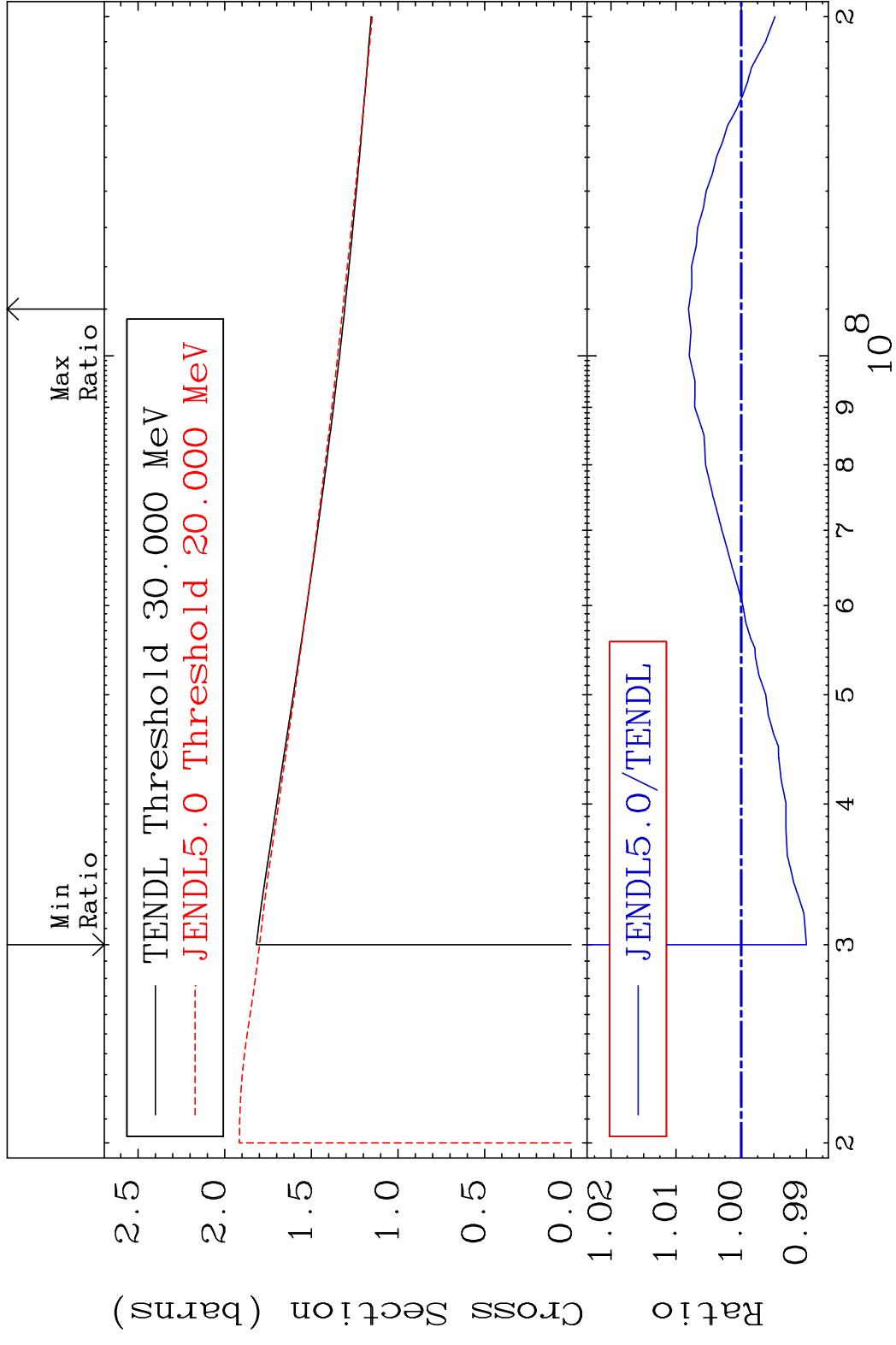


MAT 5137

(n, remainder)

51-Sb-125

Cross Section -1.000 To 0.810 %



4

Incident Energy (eV)

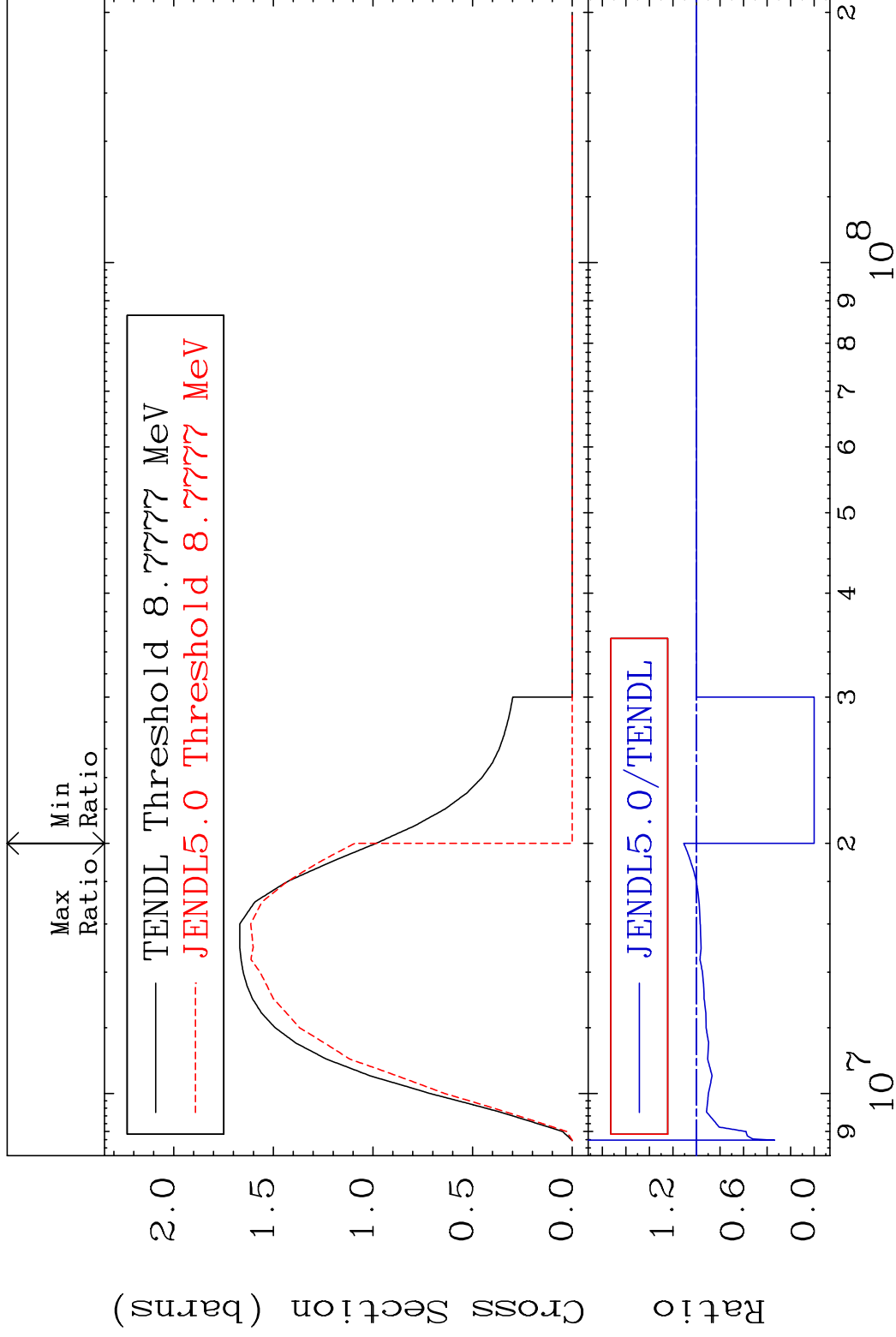
51-Sb-125

MAT 5137

(n,2n)

51-Sb-125

Cross Section -100.0 To 10.85 %



5

Incident Energy (eV)

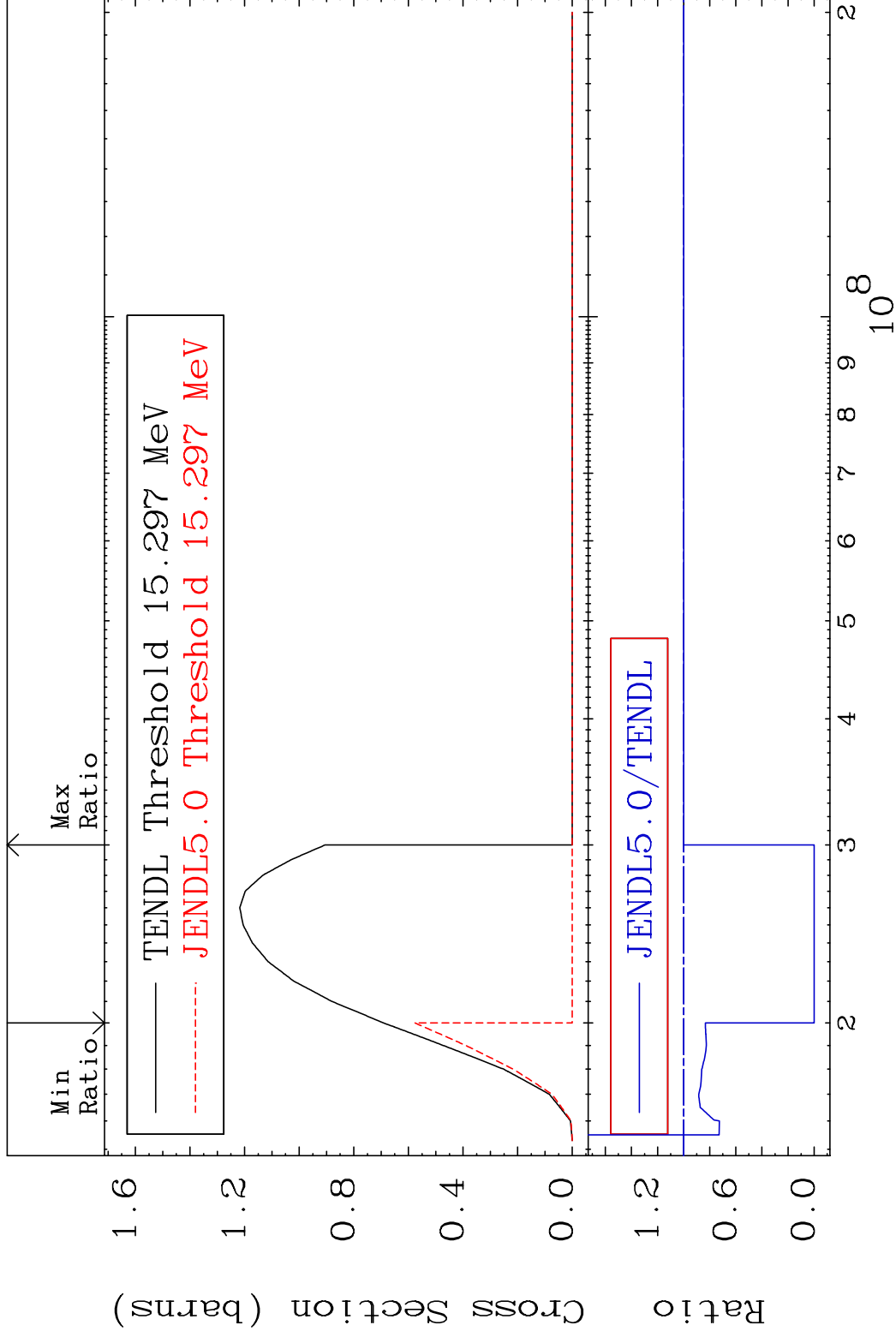
51-Sb-125

MAT 5137

(n,3n)

51-Sb-125

Cross Section -100.0 To 0.000 %



6

Incident Energy (eV)

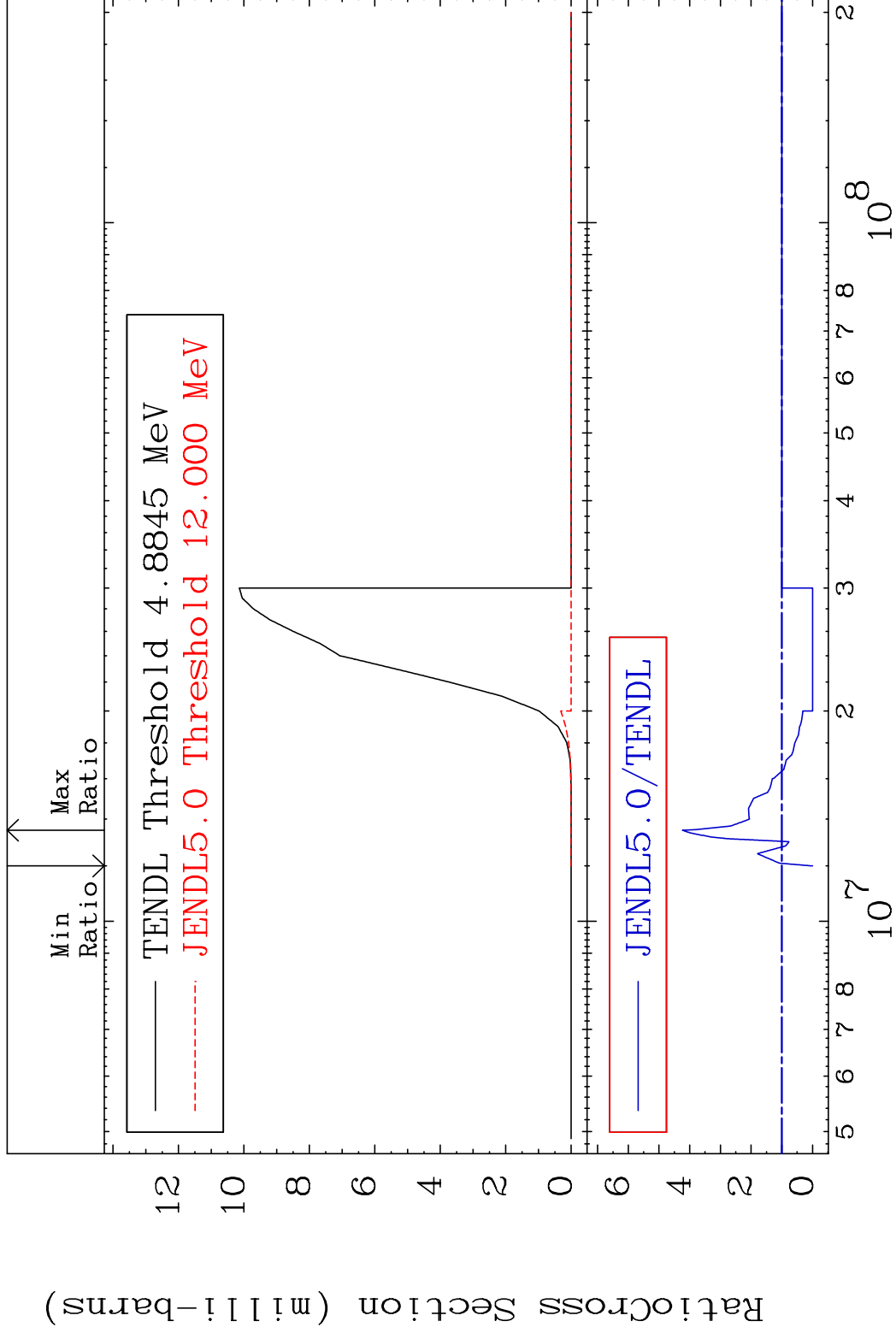
51-Sb-125

MAT 5137

(n, n')  $\alpha$

51-Sb-125

Cross Section -100.0 To 324.0 %



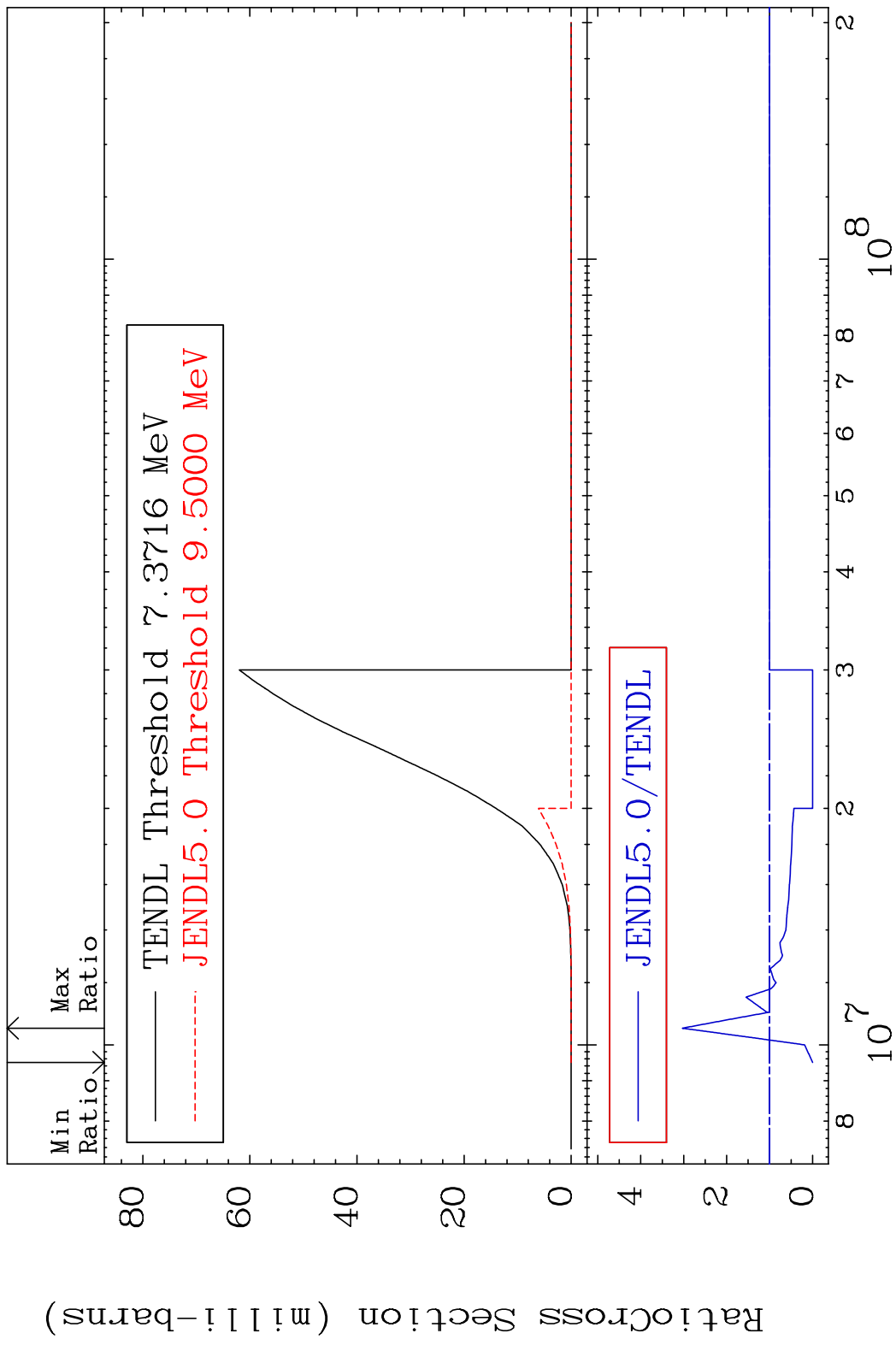
7

Incident Energy (eV)

51-Sb-125



MAT 5137 (n, n') p 51-Sb-125  
 Cross Section -100.0 To 203.2 %



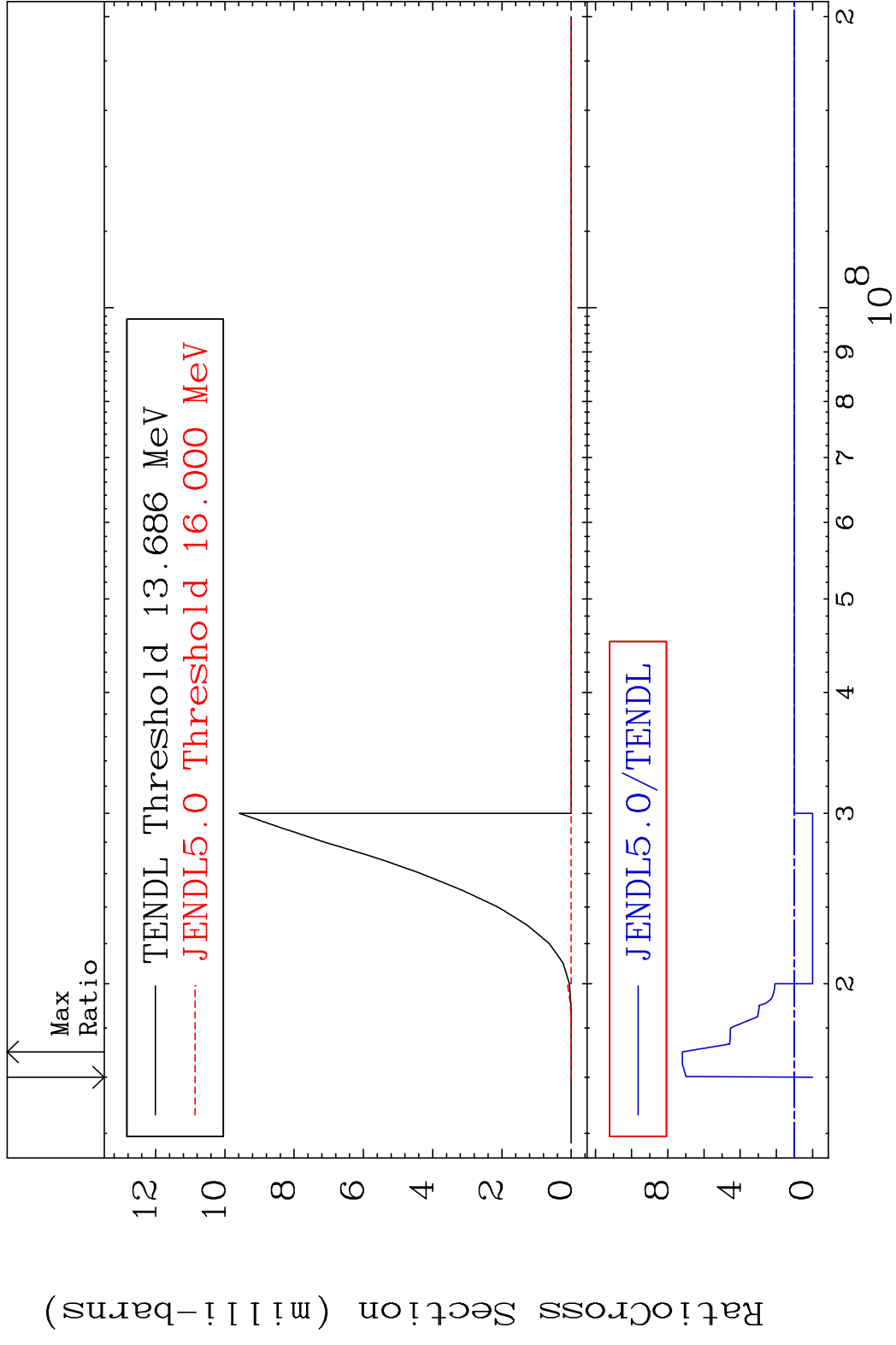
8 Incident Energy (eV) 51-Sb-125

MAT 5137

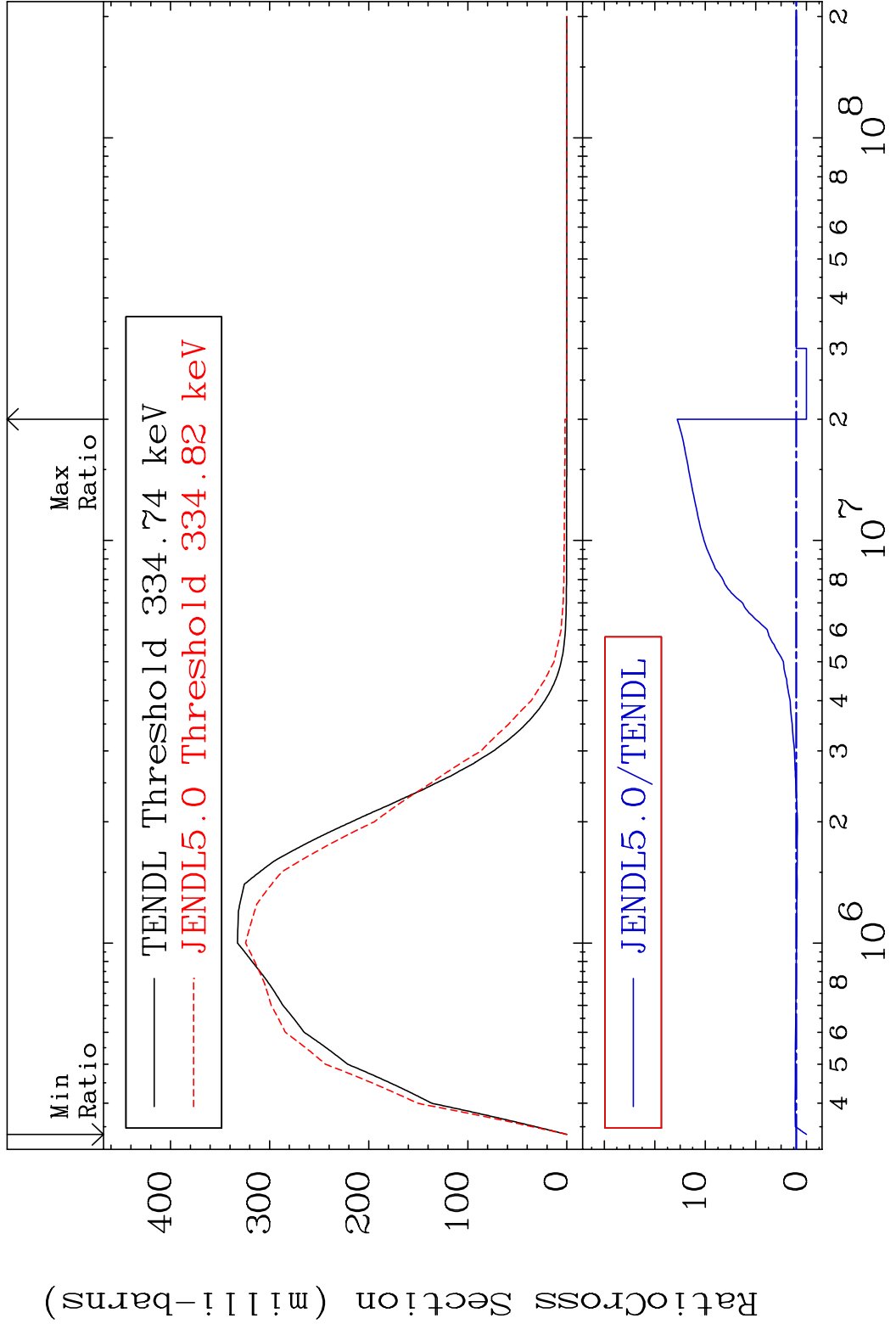
(n, n') d

51-Sb-125

Cross Section -100.0 To 619.6 %

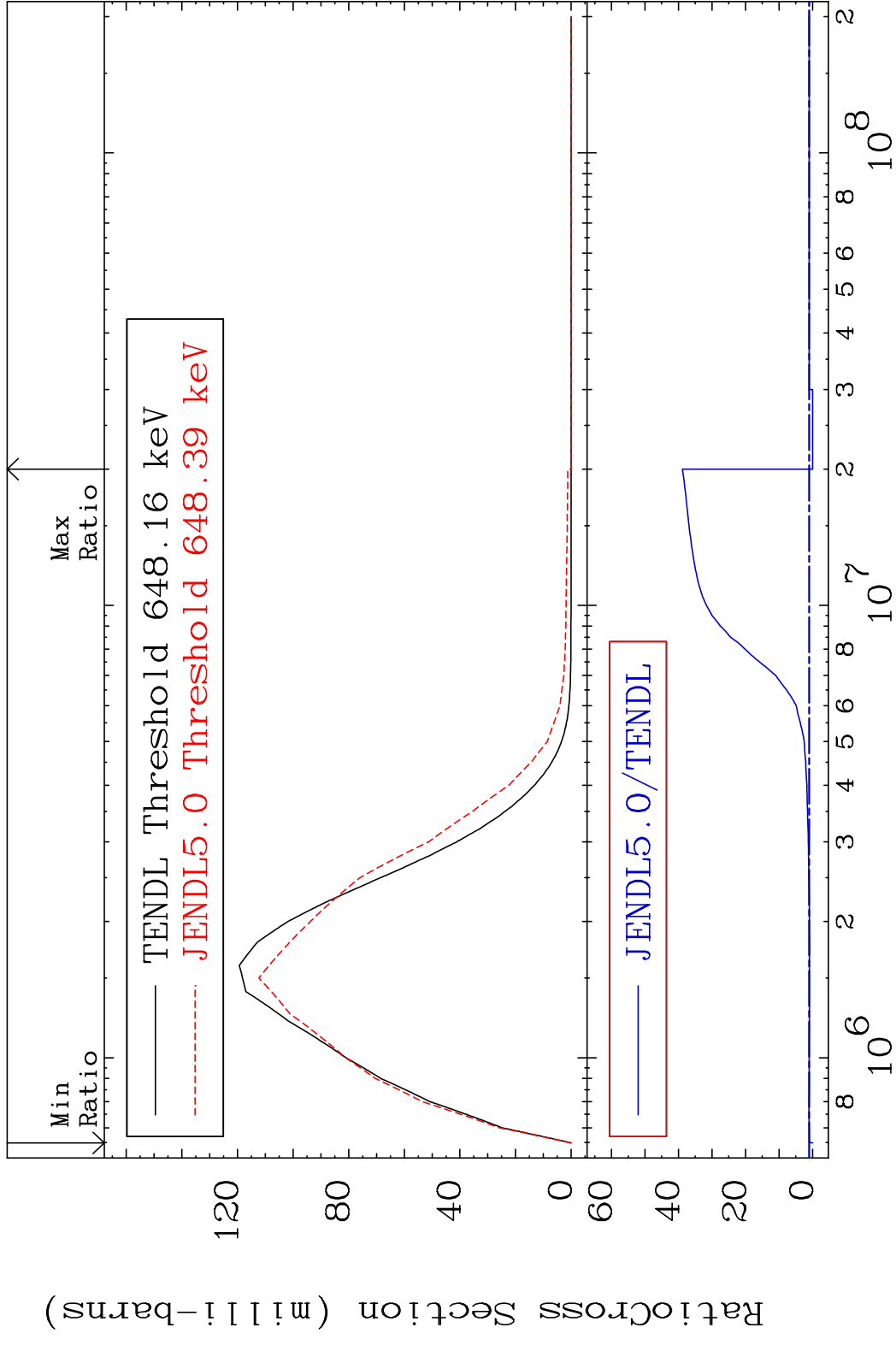


MAT 5137 MT= 51 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 1178. %

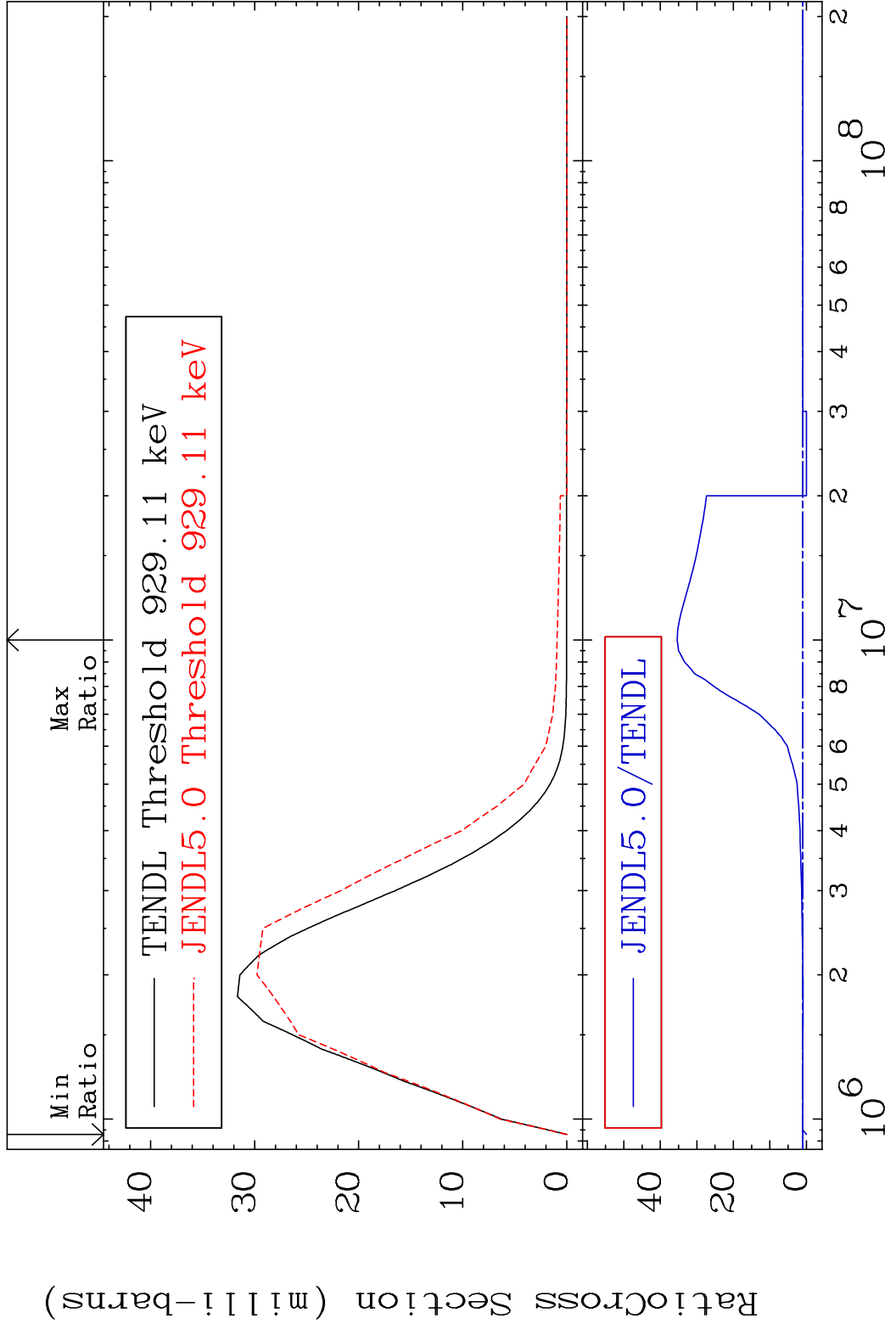


10 10 51-Sb-125

MAT 5137 MT= 52 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 3785. %

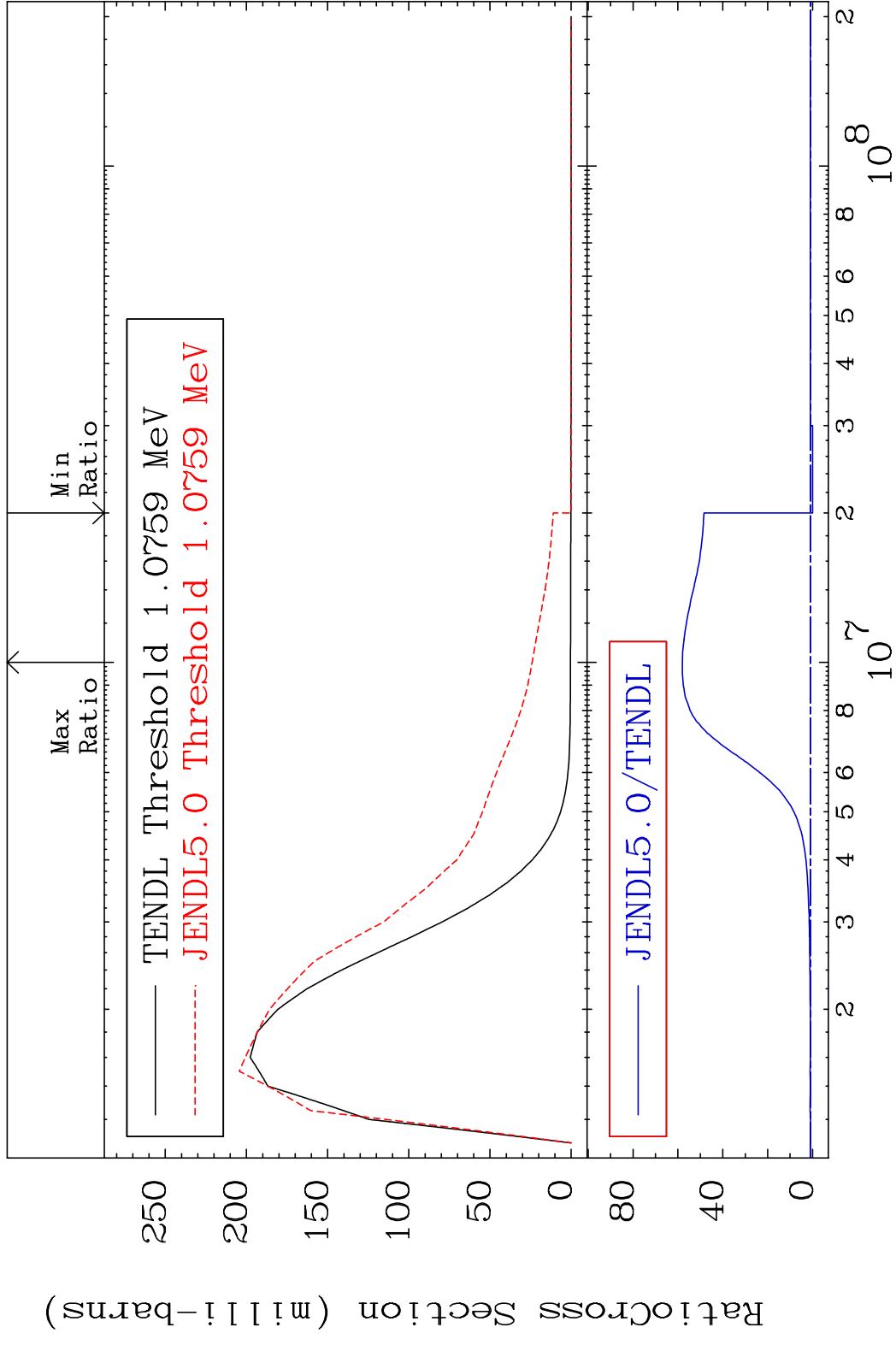


MAT 5137 MT= 53 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 3438. %

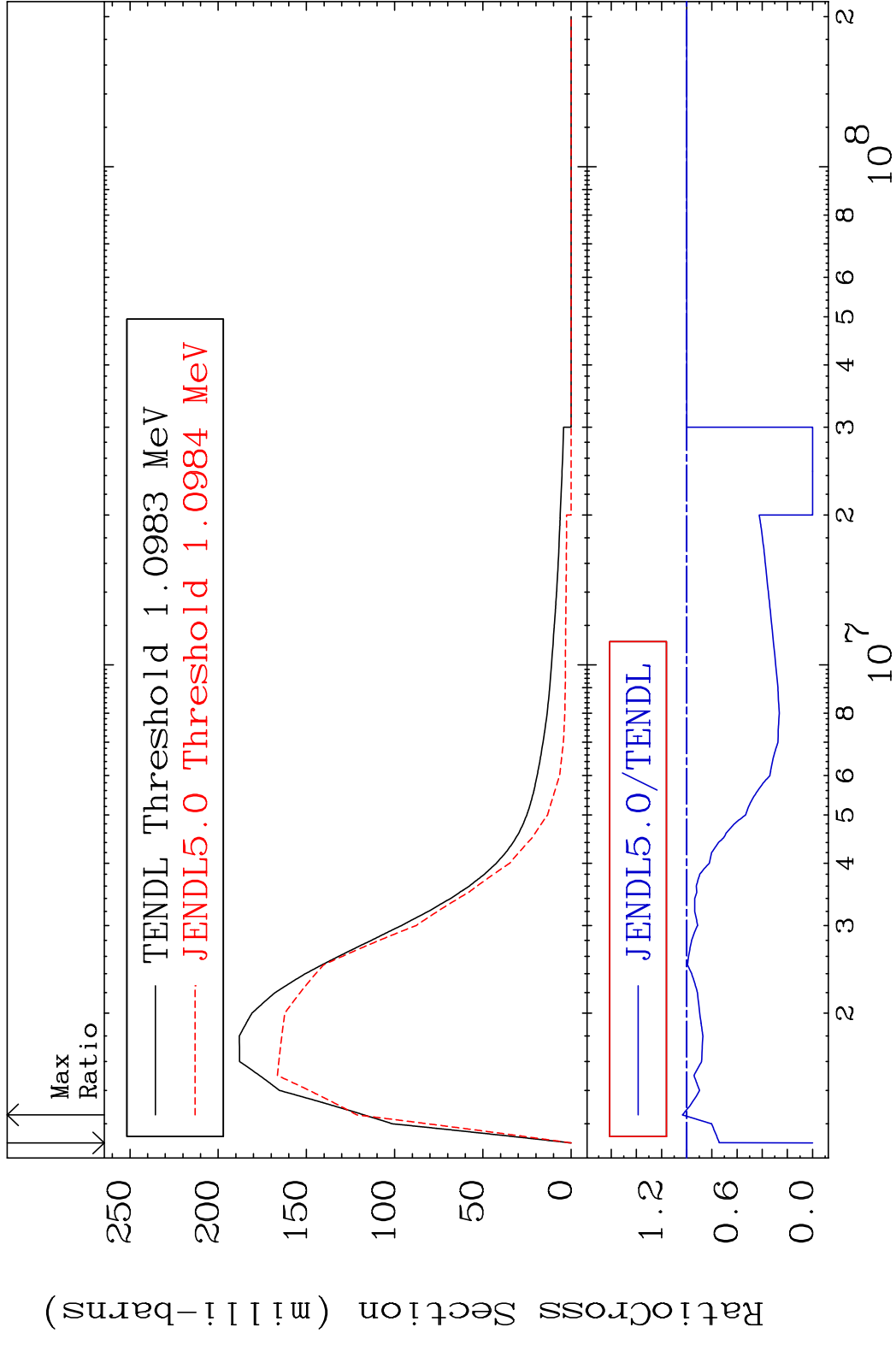


12 Incident Energy (eV) 51-Sb-125

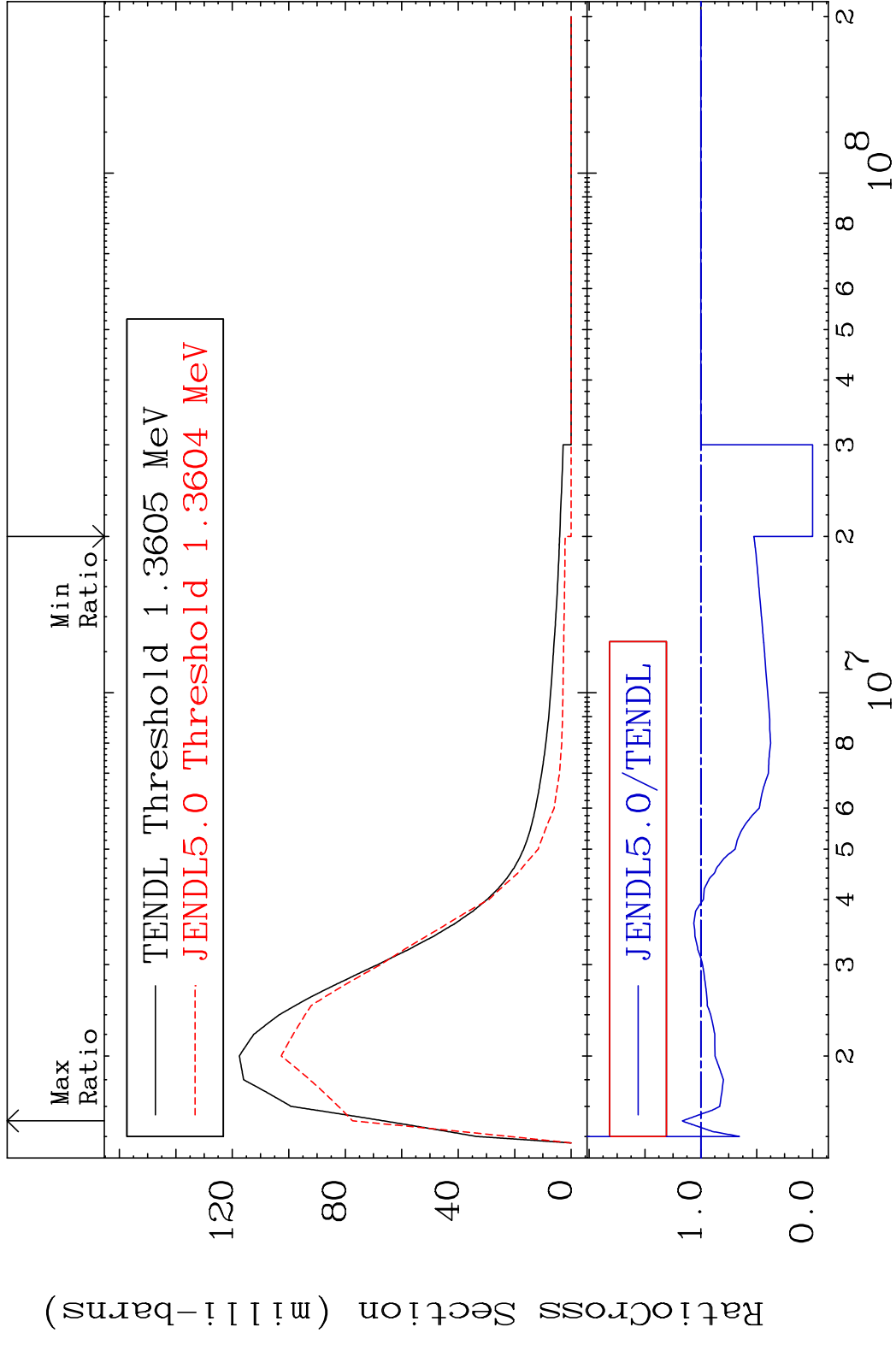
MAT 5137 MT= 54 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 5703. %



MAT 5137 MT= 55 (n,n') Level 51-Sb-125  
 Cross Section -100.0 To 3.456 %

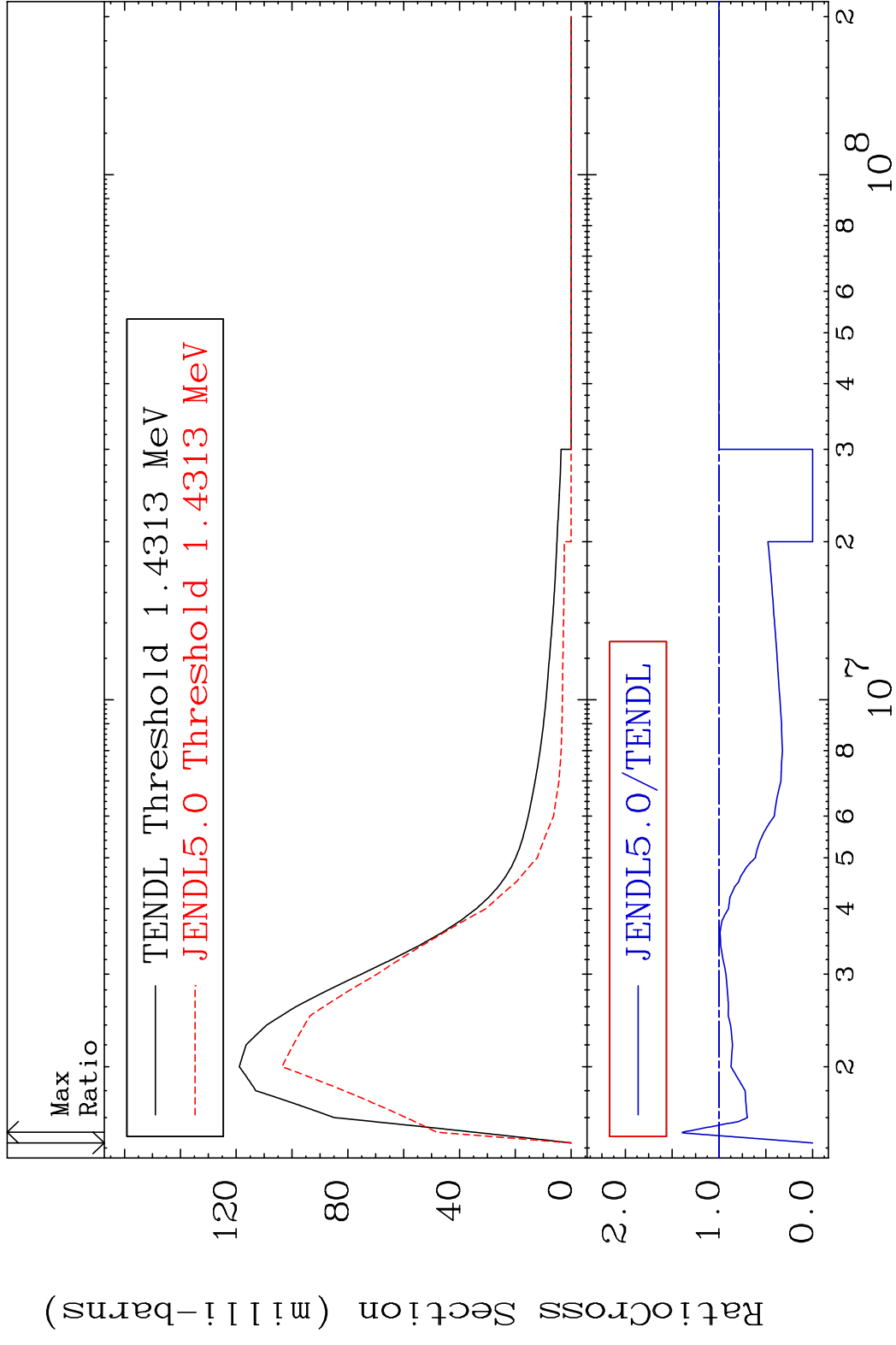


MAT 5137 MT= 56 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 16.56 %

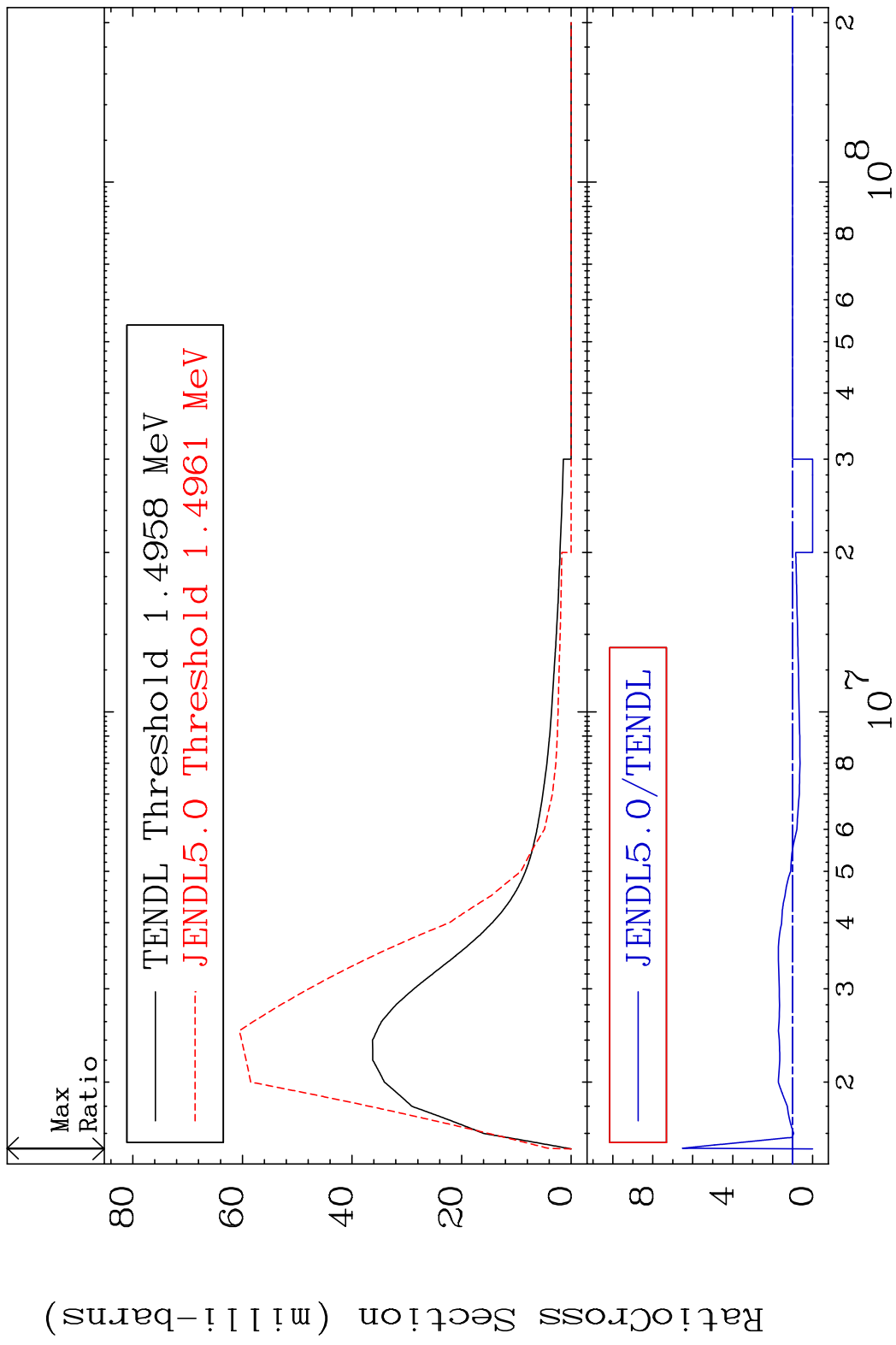




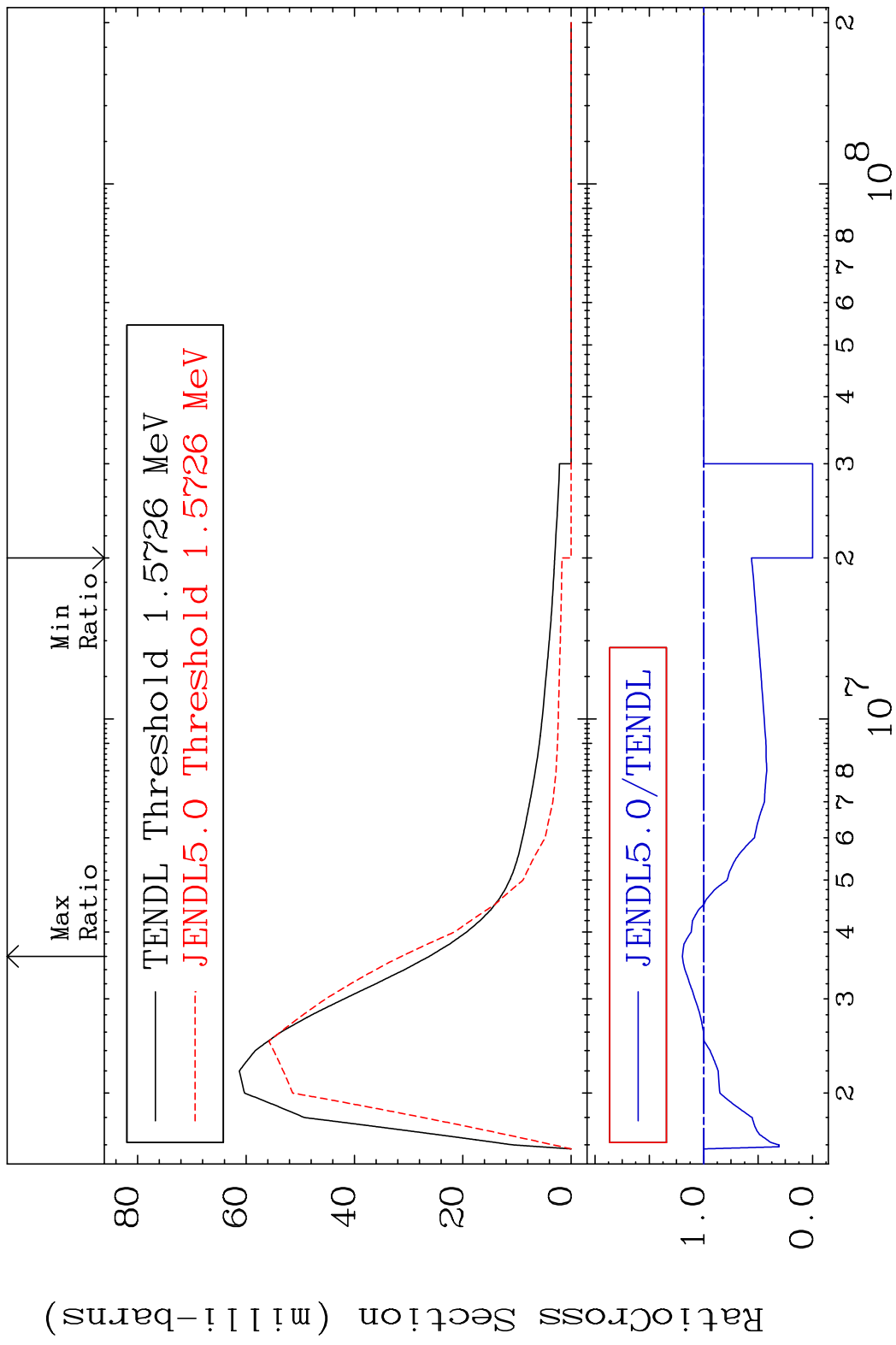
MAT 5137 MT= 57 (n,n') Level 51-Sb-125  
 Cross Section -100.0 To 39.09 %



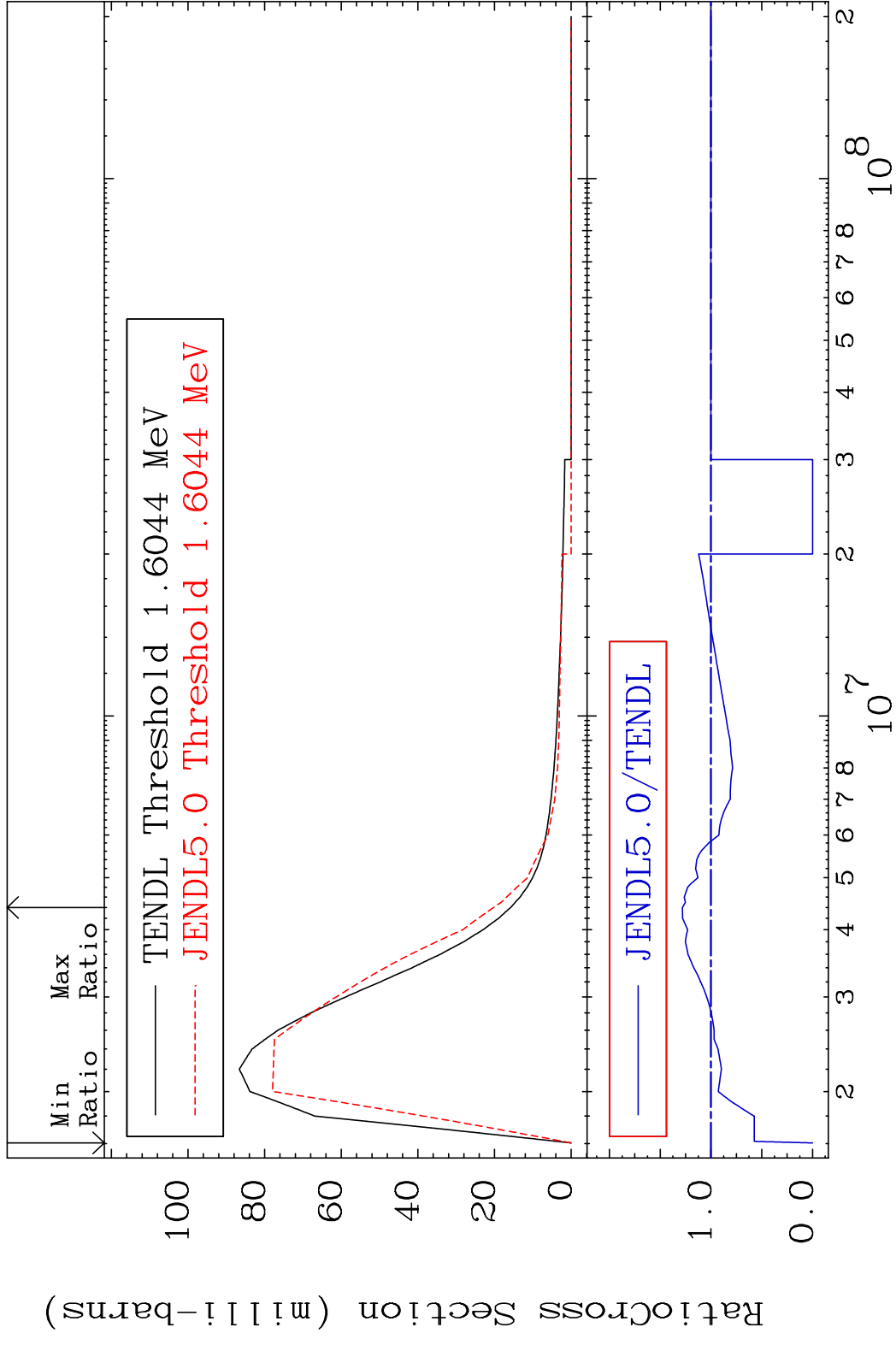
MAT 5137 MT= 58 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 552.0 %



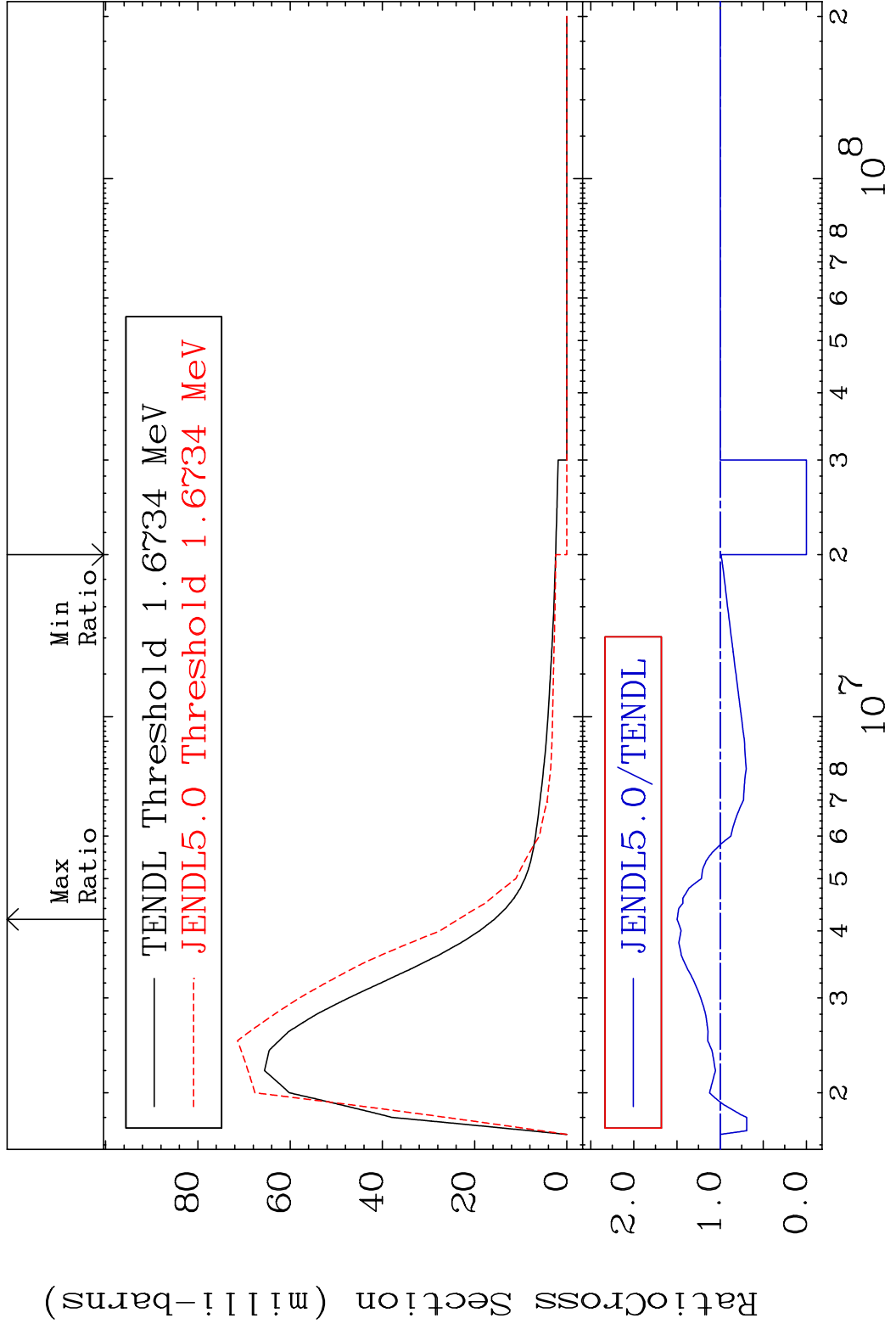
MAT 5137 MT= 59 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 19.66 %



MAT 5137 MT= 60 (n,n') Level 51-Sb-125  
 Cross Section -100.0 To 28.20 %

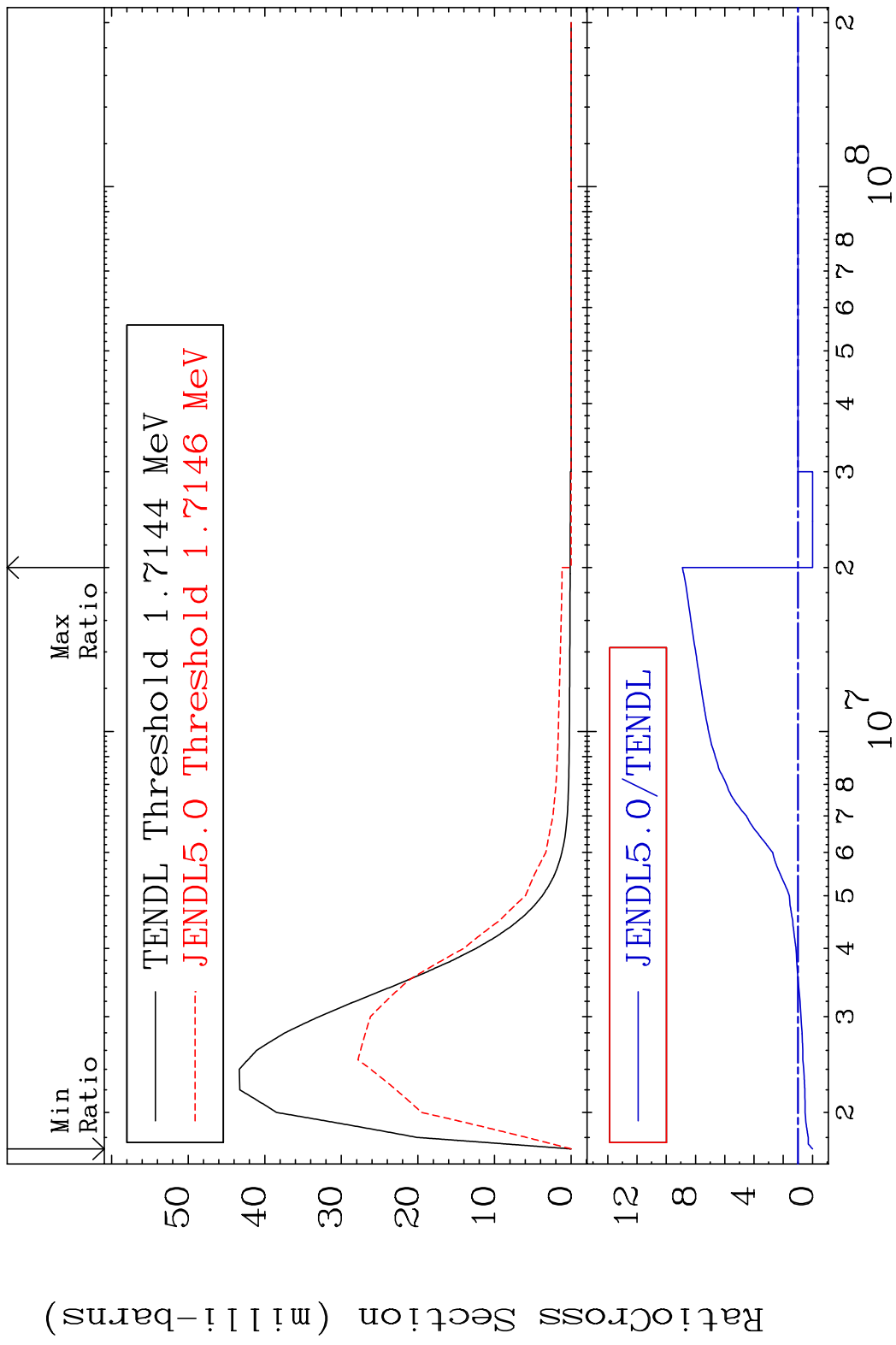


MAT 5137 MT= 61 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 49.79 %

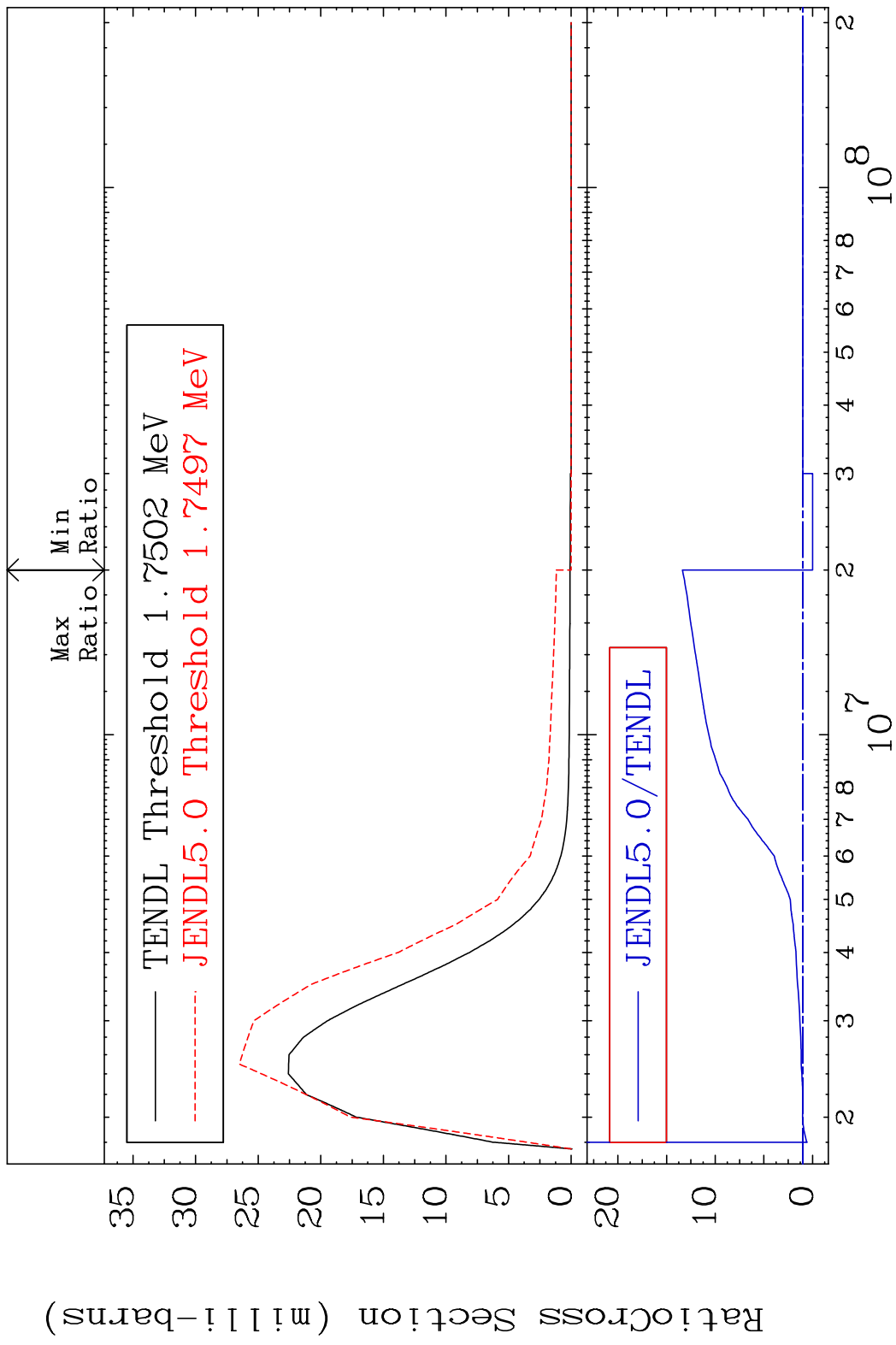


20 Incident Energy (eV) 51-Sb-125

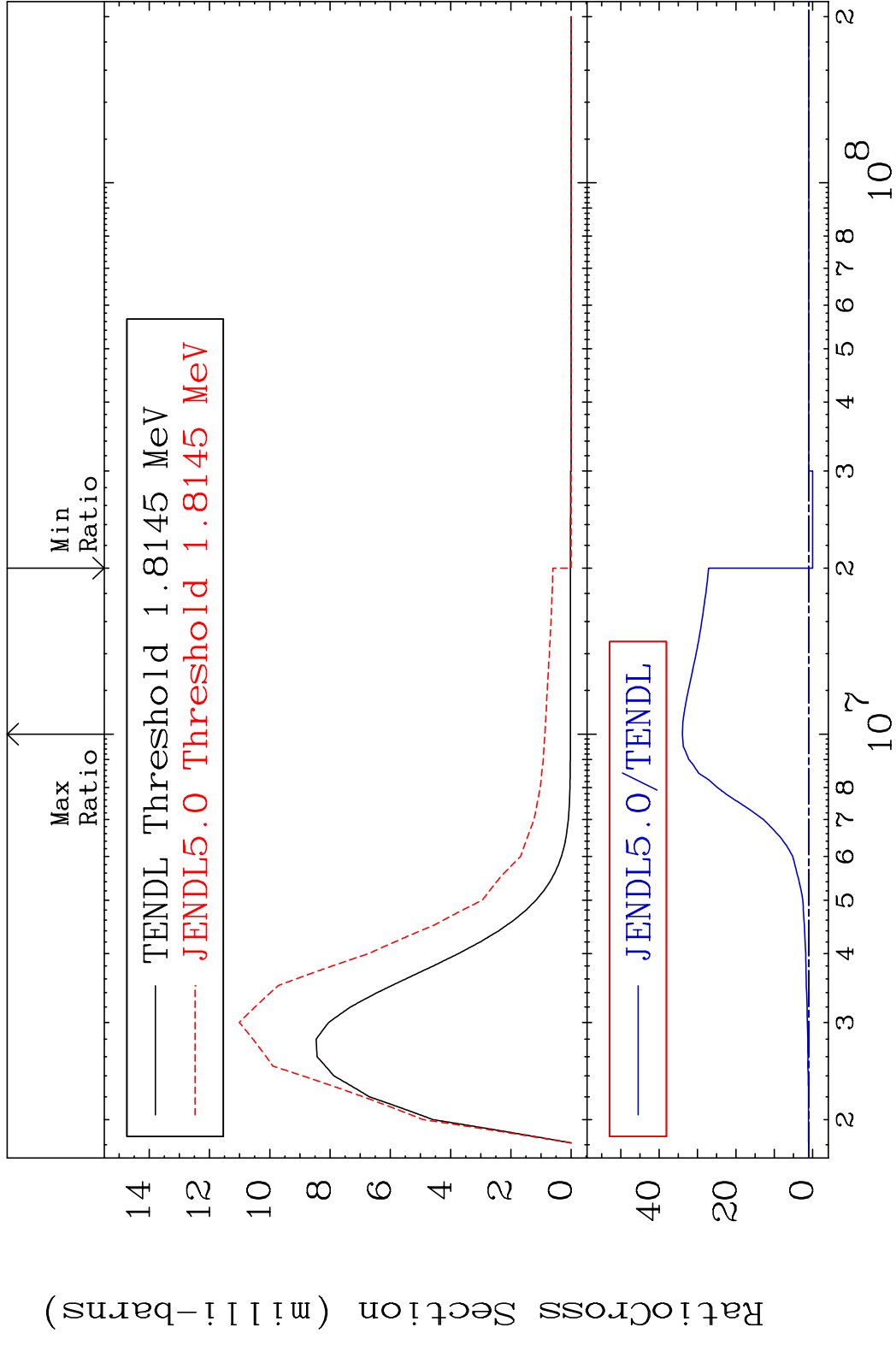
MAT 5137 MT= 62 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 789.9 %



MAT 5137 MT= 63 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 1238. %

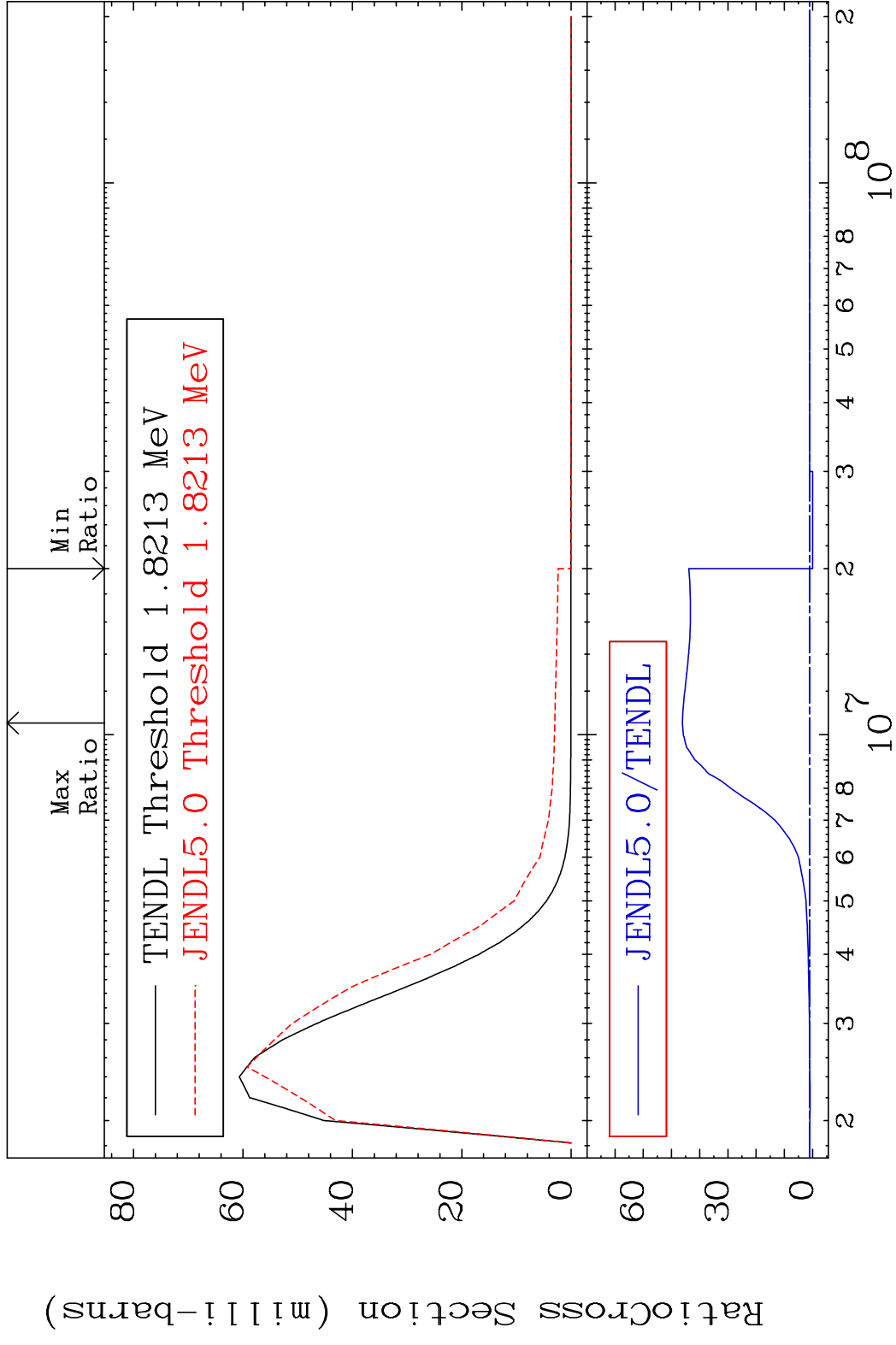


MAT 5137 MT= 64 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 3296. %





MAT 5137 MT= 65 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 4514. %

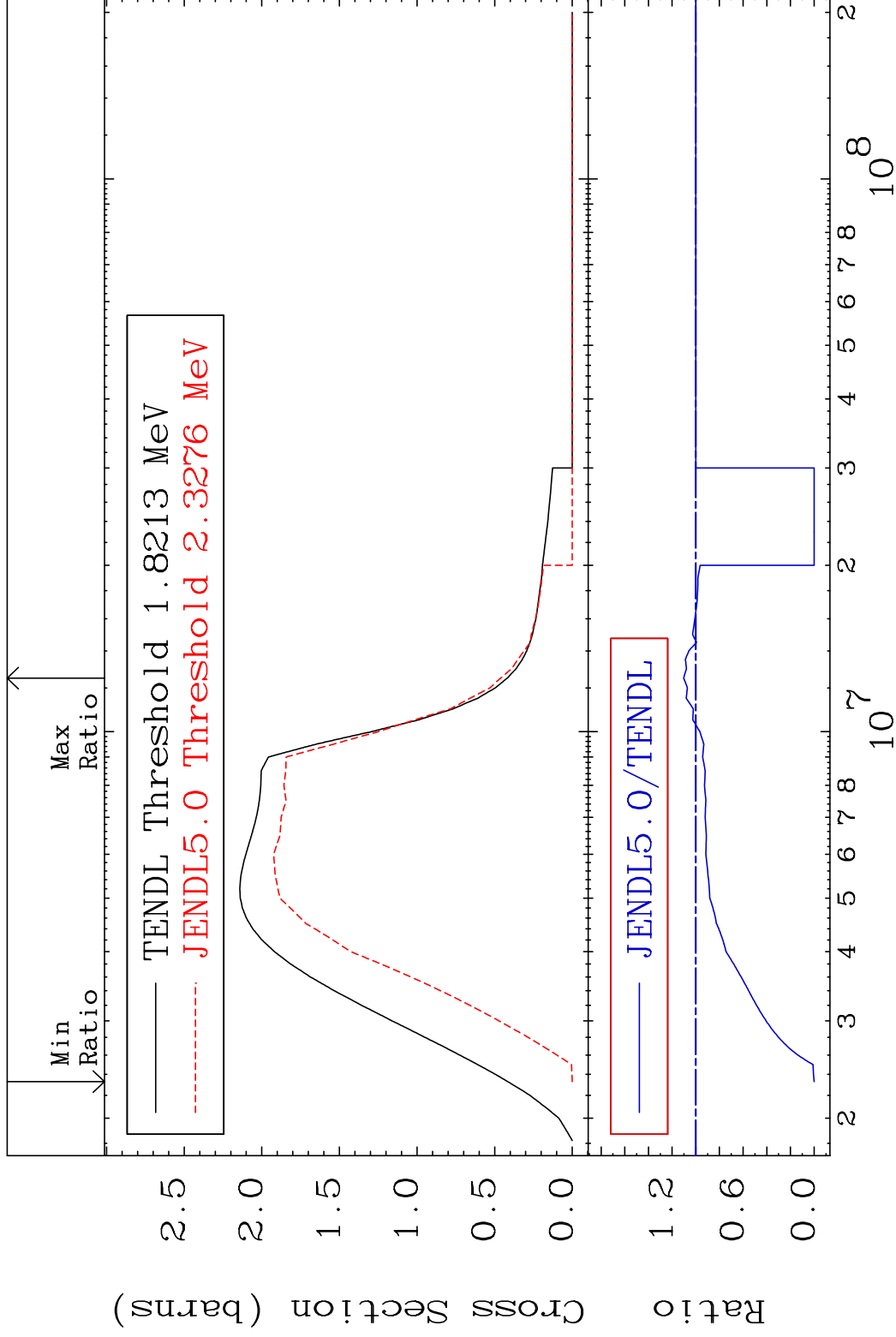


MAT 5137

(n, n') Continuum

51-Sb-125

Cross Section -100.0 To 10.24 %



25

Incident Energy (eV)

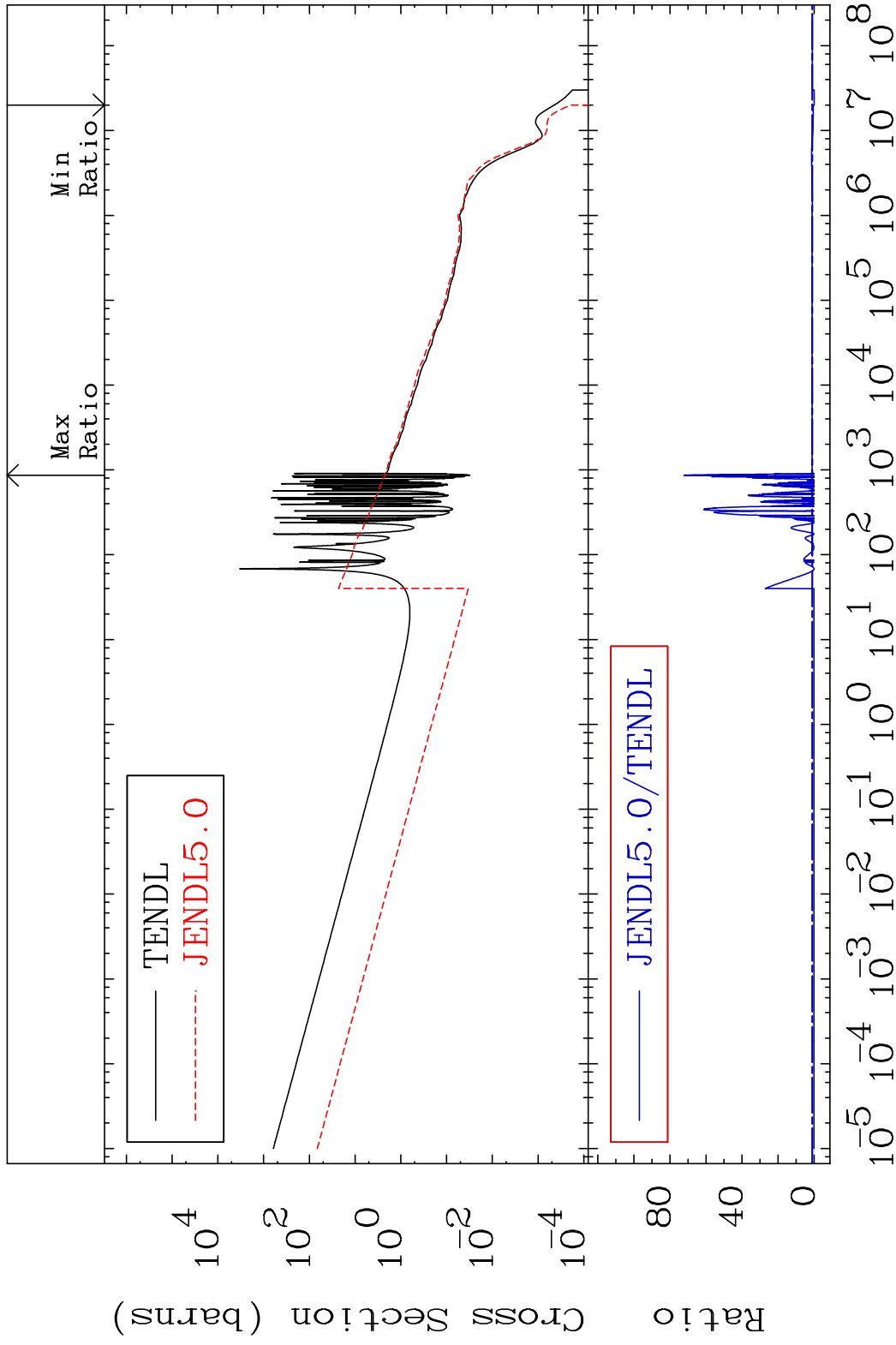
51-Sb-125

MAT 5137

(n,  $\gamma$ )

51-Sb-125

Cross Section -100.0 To 7140. %



26

Incident Energy (eV)

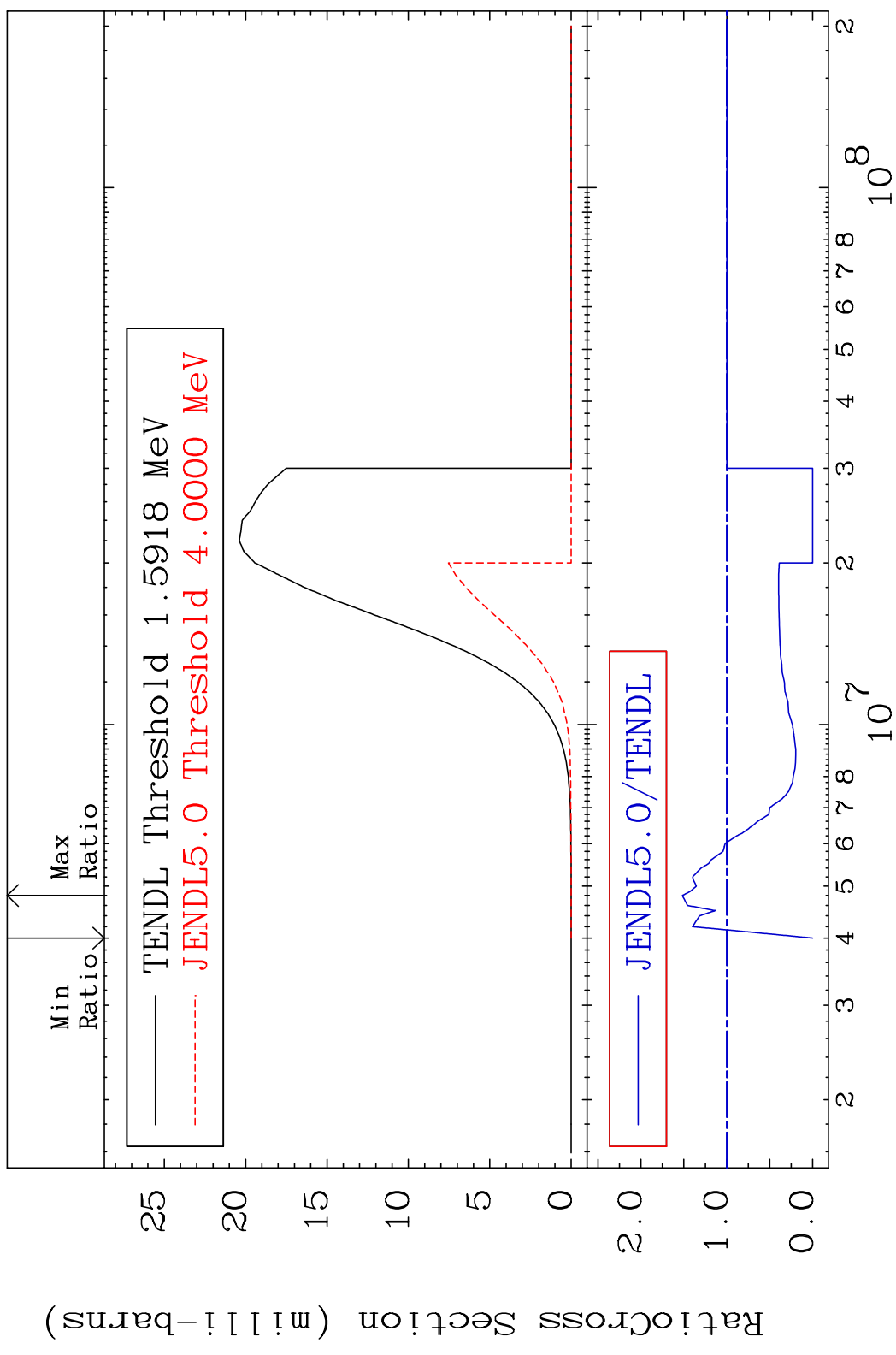
51-Sb-125

MAT 5137

(n,p)

51-Sb-125

Cross Section -100.0 To 51.76 %

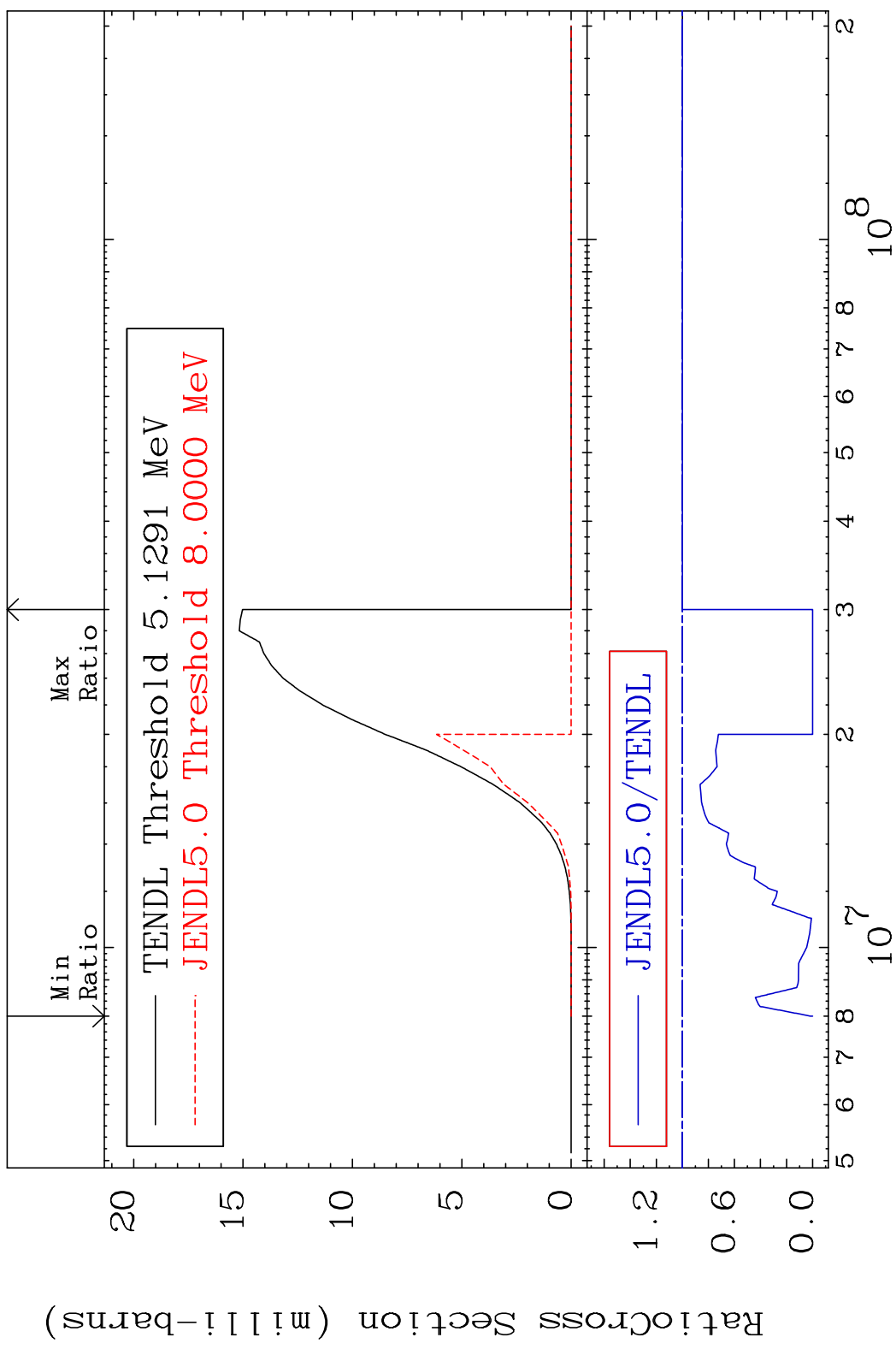


MAT 5137

(n,d)

51-Sb-125

Cross Section -100.0 To 0.000 %

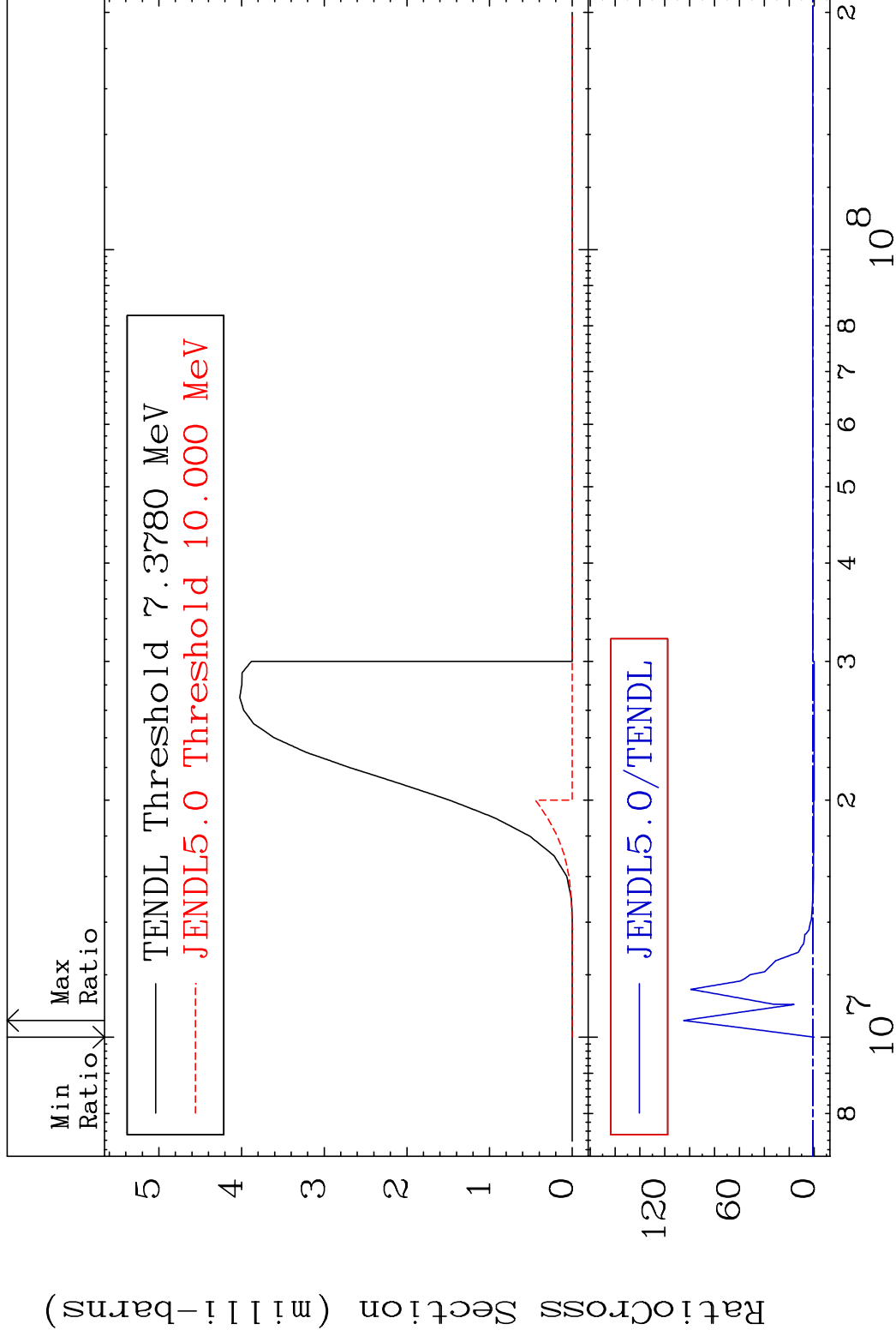


MAT 5137

(n, t)

51-Sb-125

Cross Section -100.0 To 9999. %



29

Incident Energy (eV)

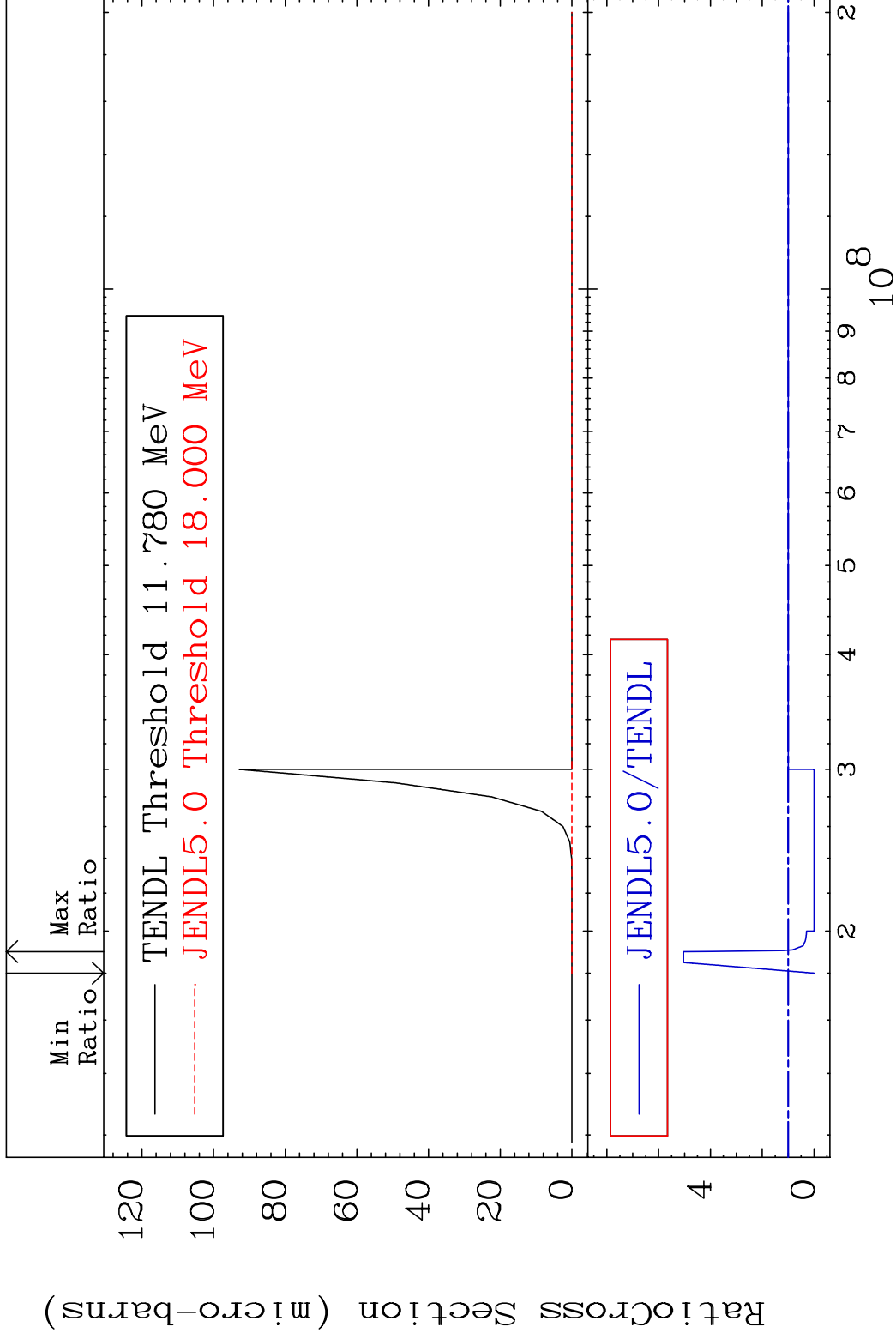
51-Sb-125

MAT 5137

(n, He-3)

51-Sb-125

Cross Section -100.0 To 404.2 %



30

Incident Energy (eV)

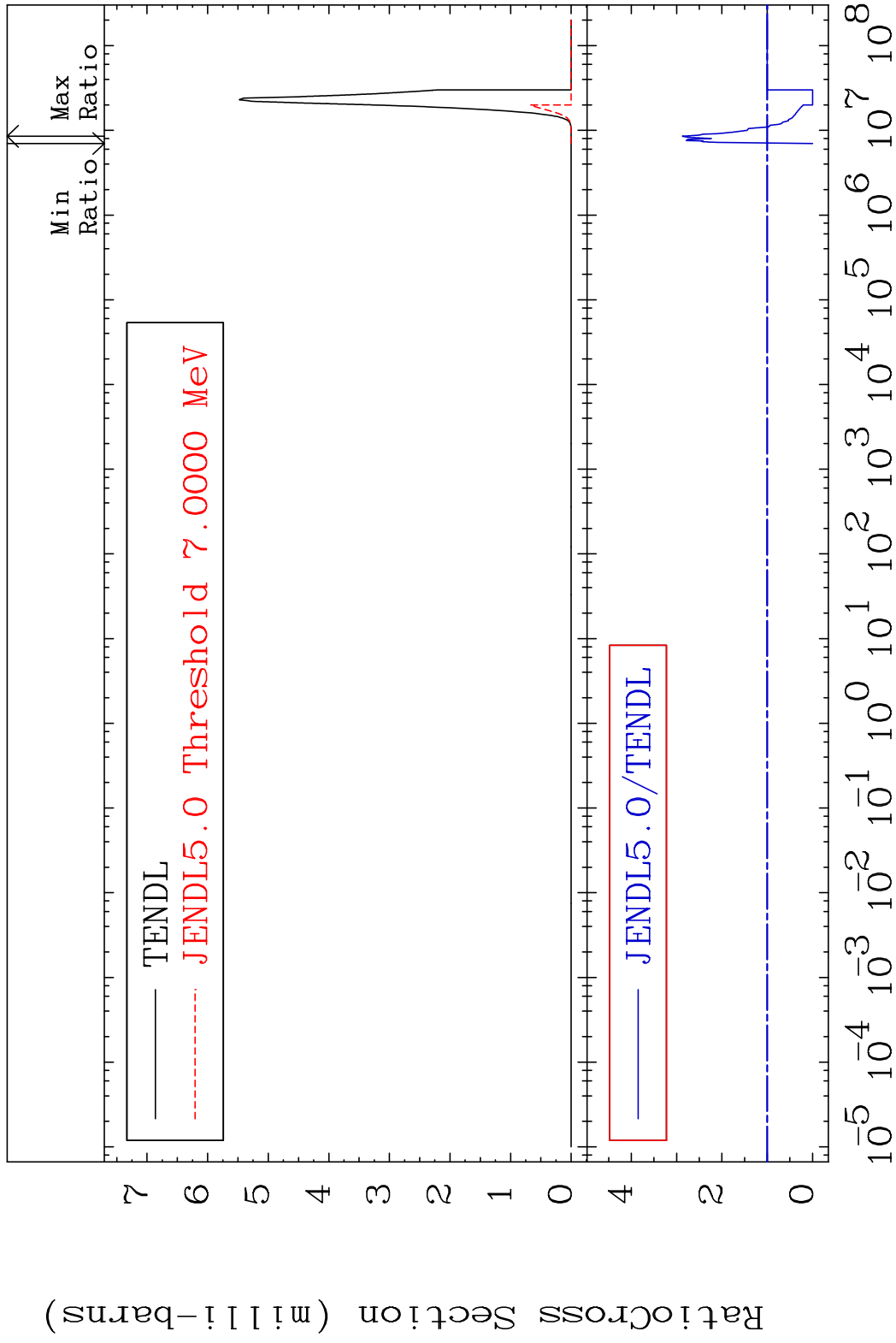
51-Sb-125

MAT 5137

(n,  $\alpha$ )

51-Sb-125

Cross Section -100.0 To 187.3 %

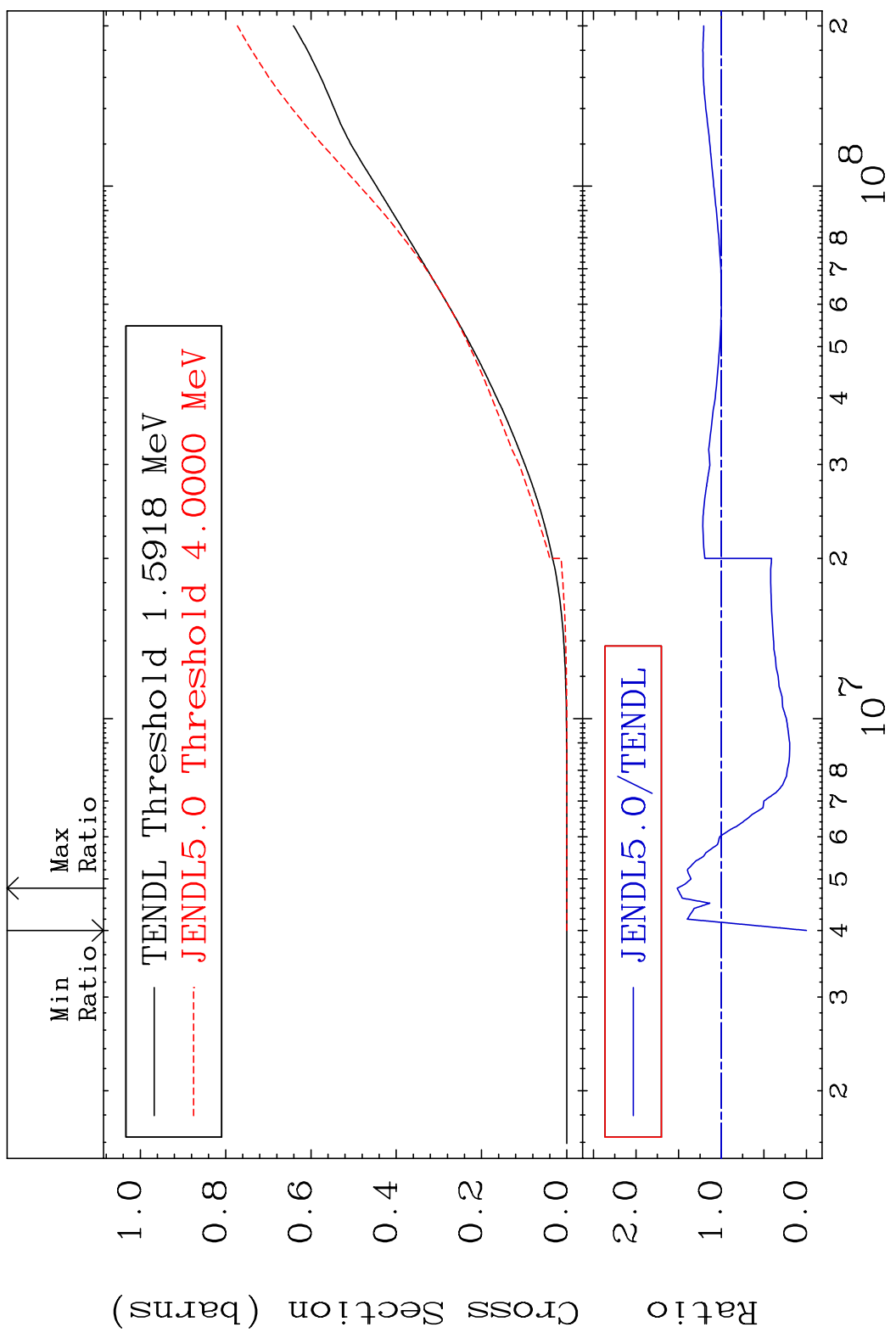


31

Incident Energy (eV)

51-Sb-125

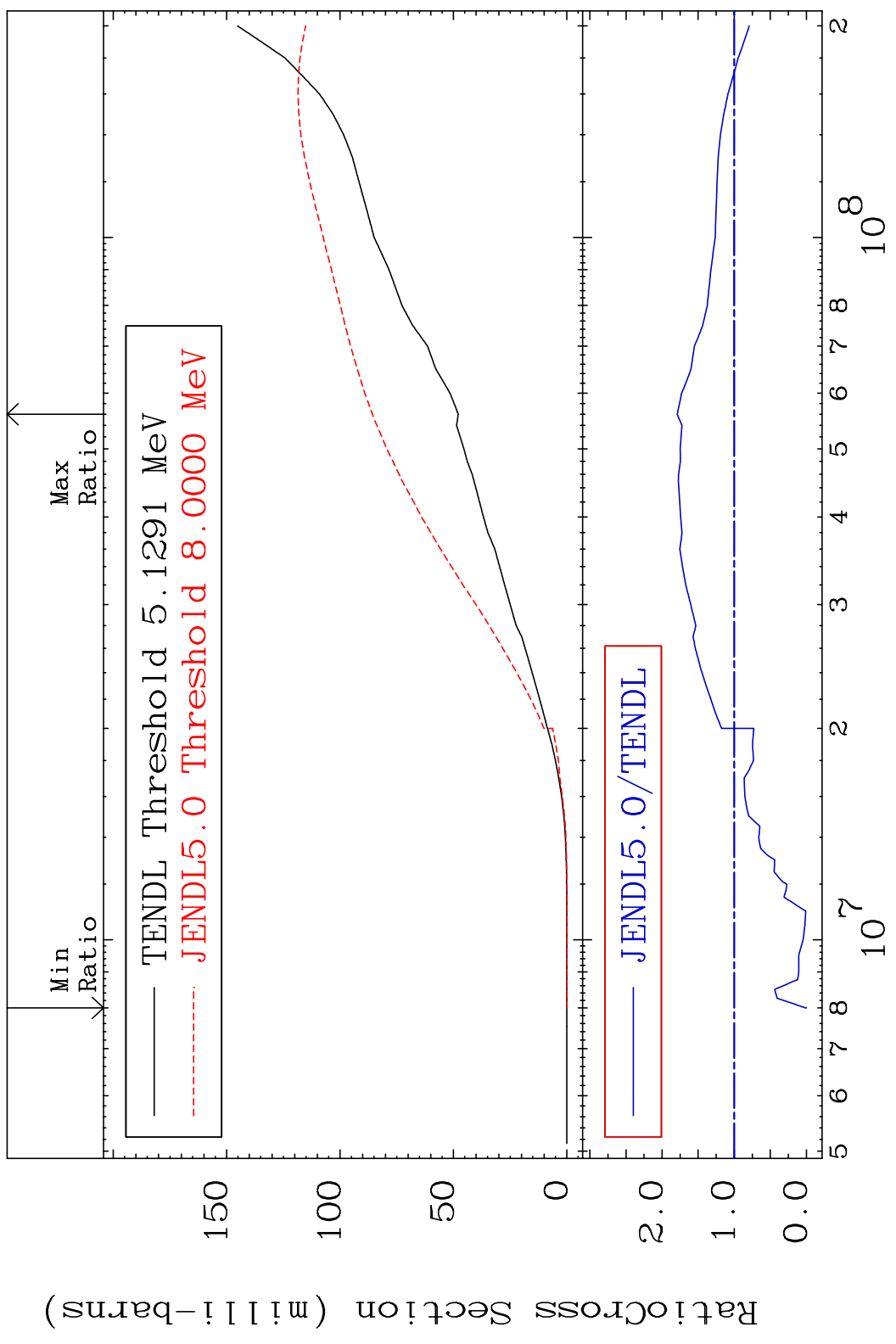




MAT 5137

Deuterium Production  
Cross Section -100.0 To 79.04 %

51-Sb-125



33

Incident Energy (eV)

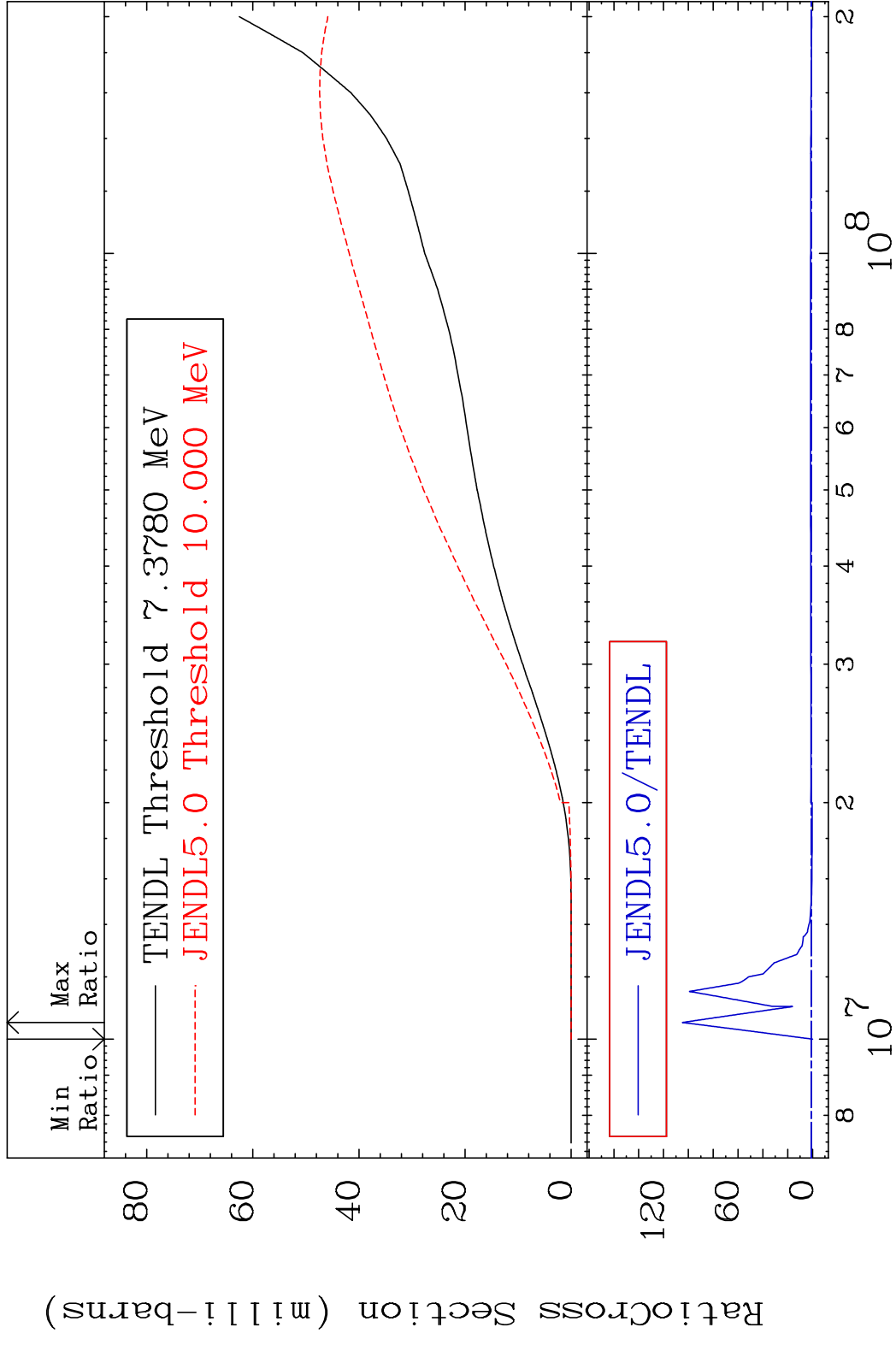
51-Sb-125

MAT 5137

Tritium Production

51-Sb-125

Cross Section -100.0 To 9999. %

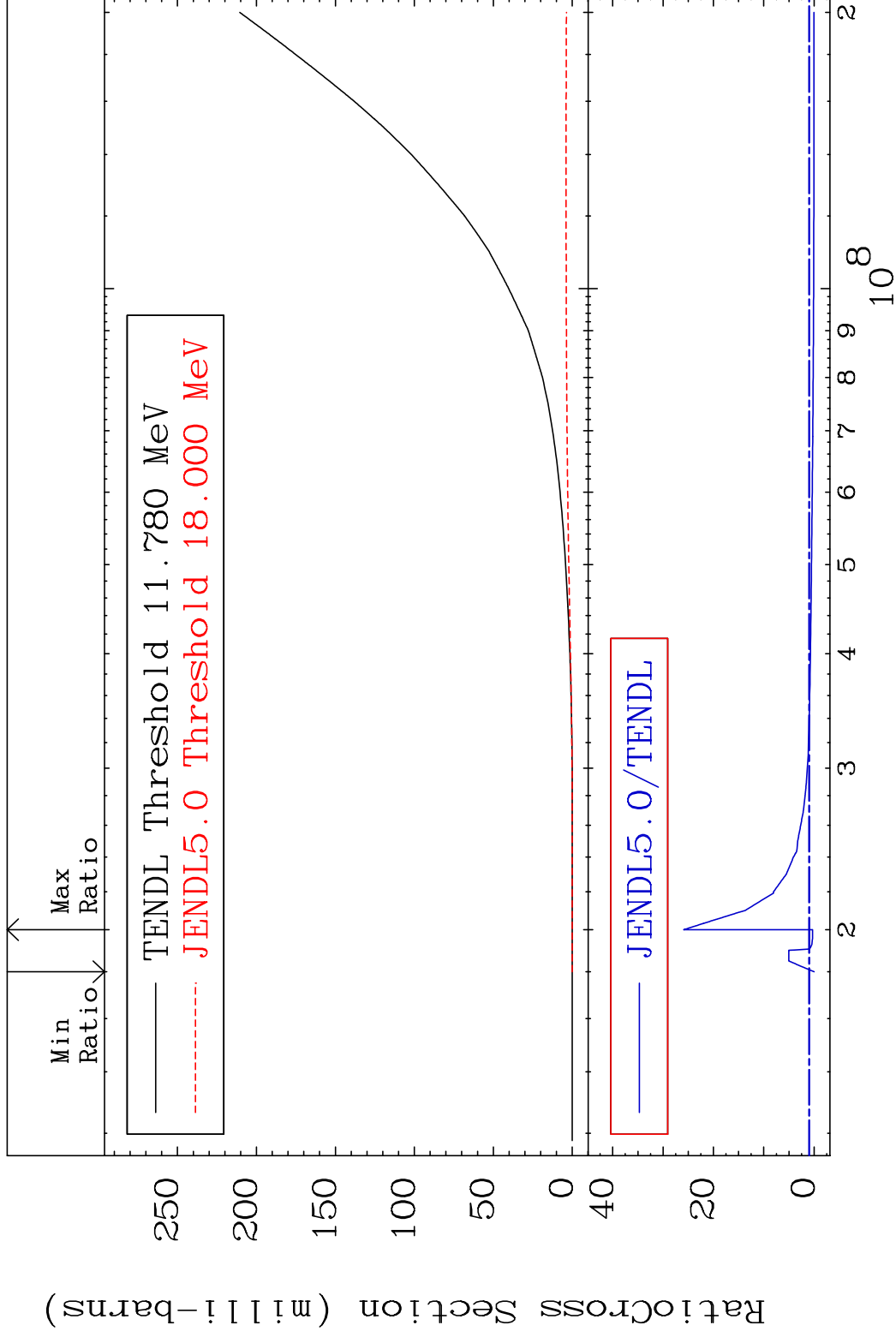


MAT 5137

He-3 Production

51-Sb-125

Cross Section -100.0 To 2491. %

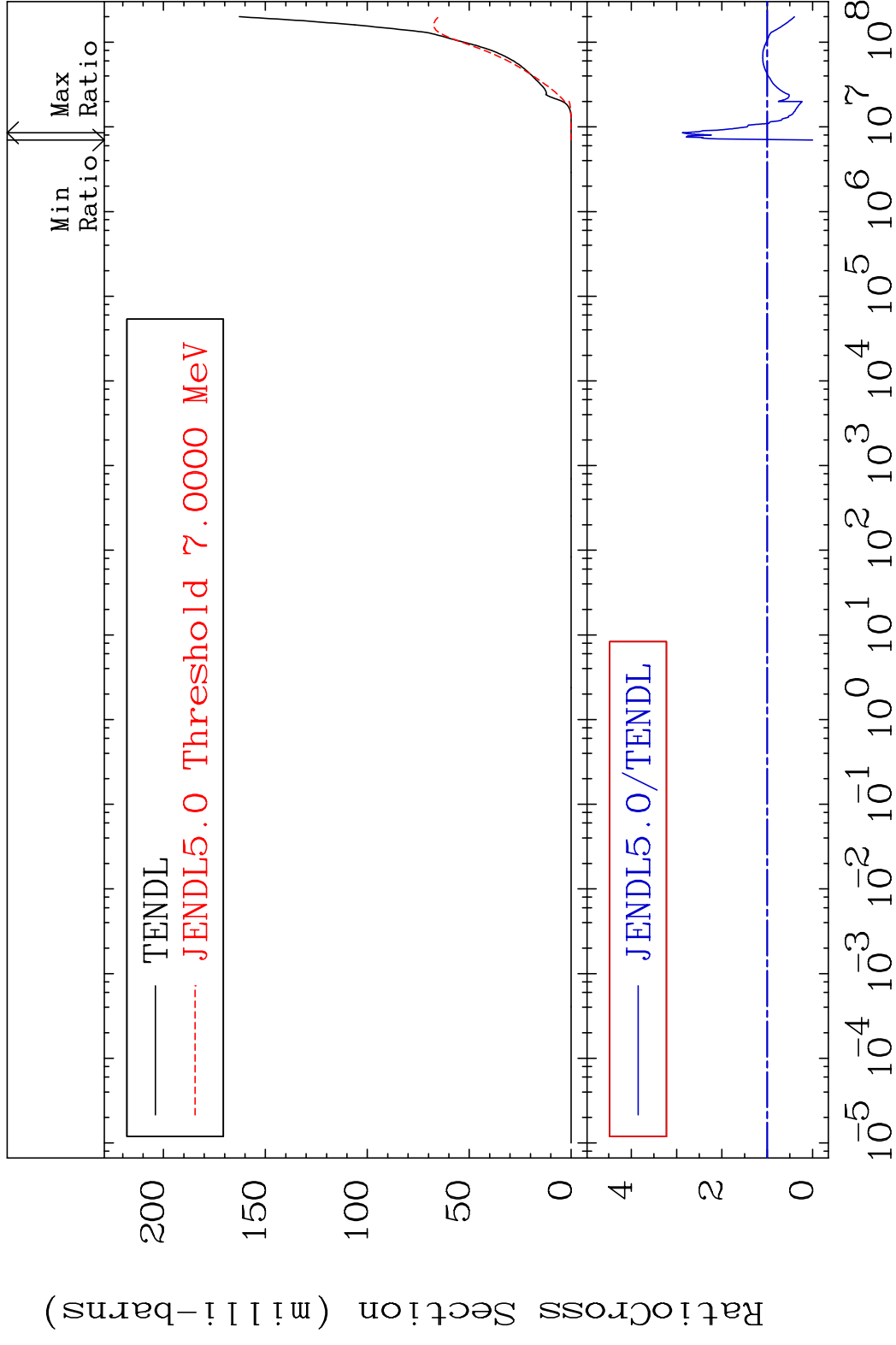


35

Incident Energy (eV)

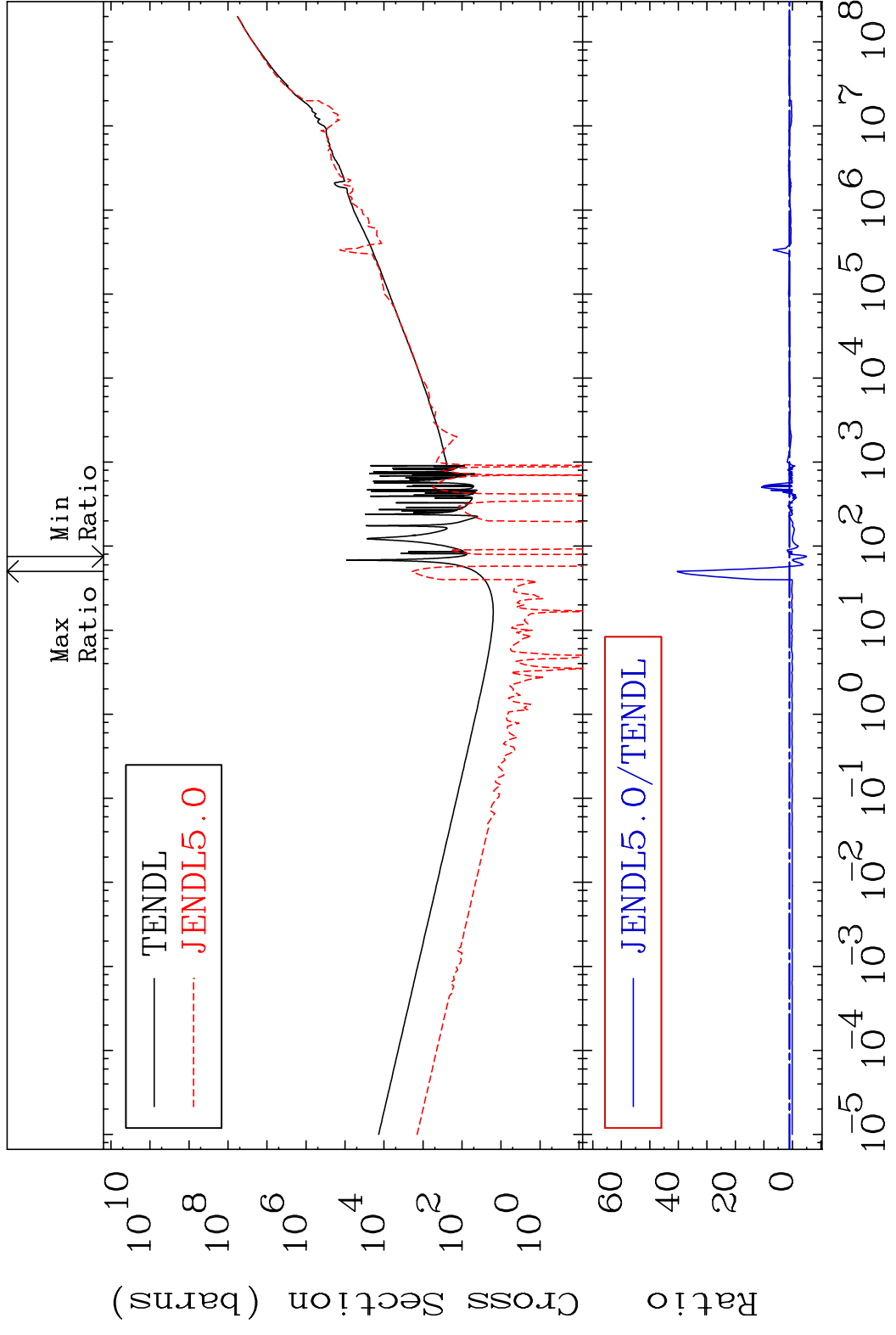
51-Sb-125

Cross Section -100.0 To 187.3 %



MAT 5137

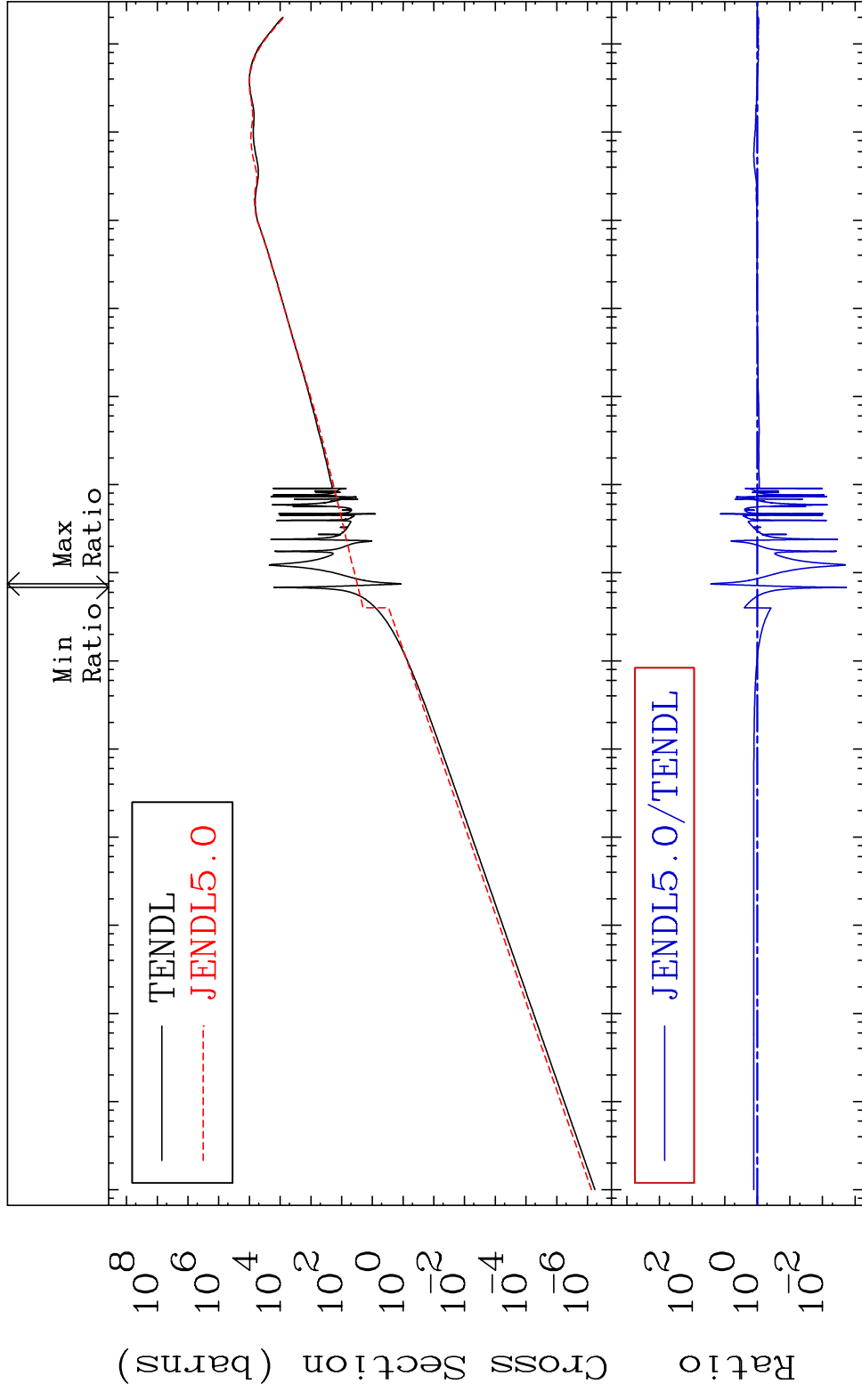
Kerma total (eV-barns) 51-Sb-125  
Cross Section -591.7 To 3941. %



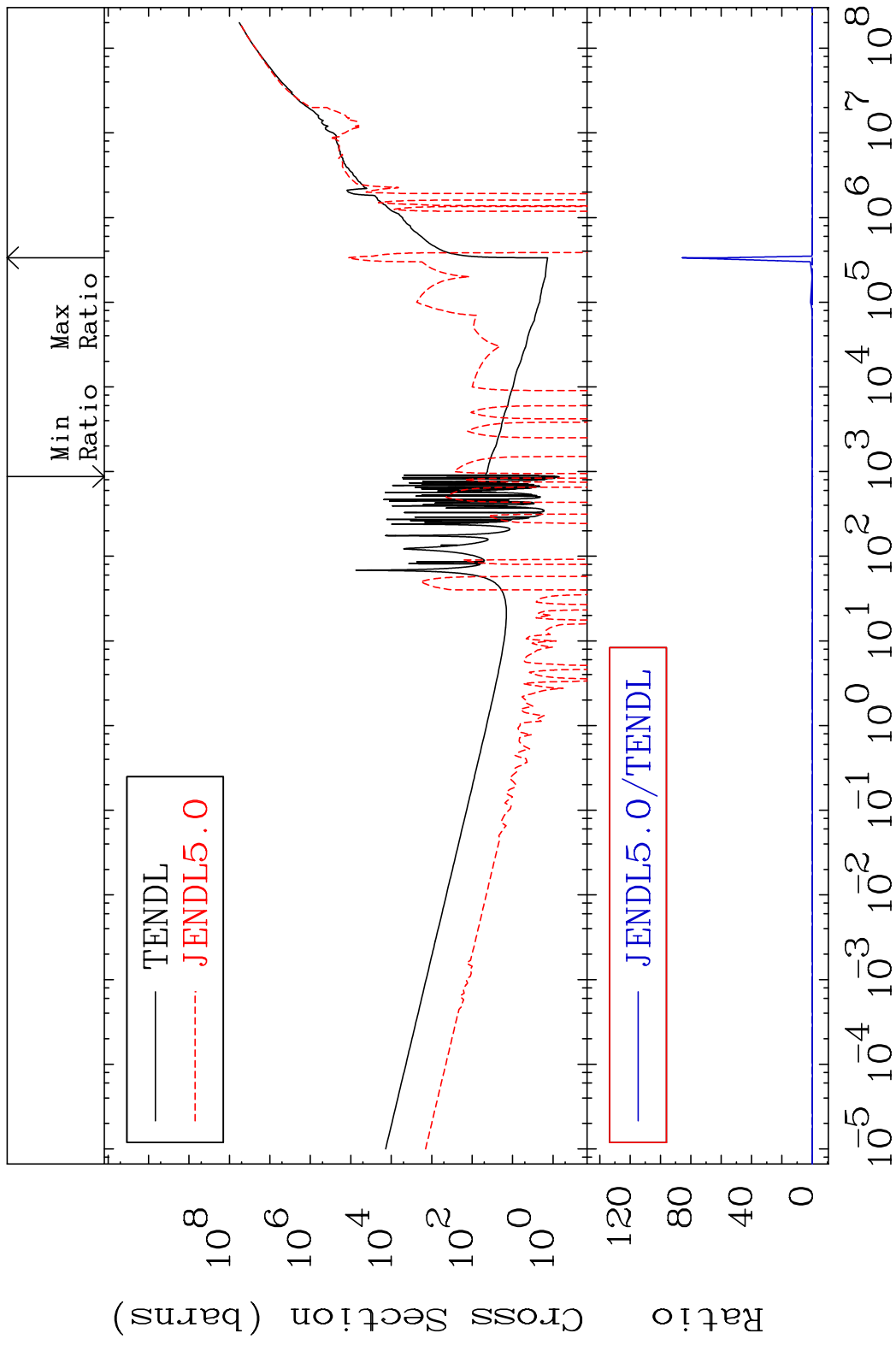
MAT 5137

Kerma elastic  
Cross Section

51-Sb-125  
-99.81 To 2593. %

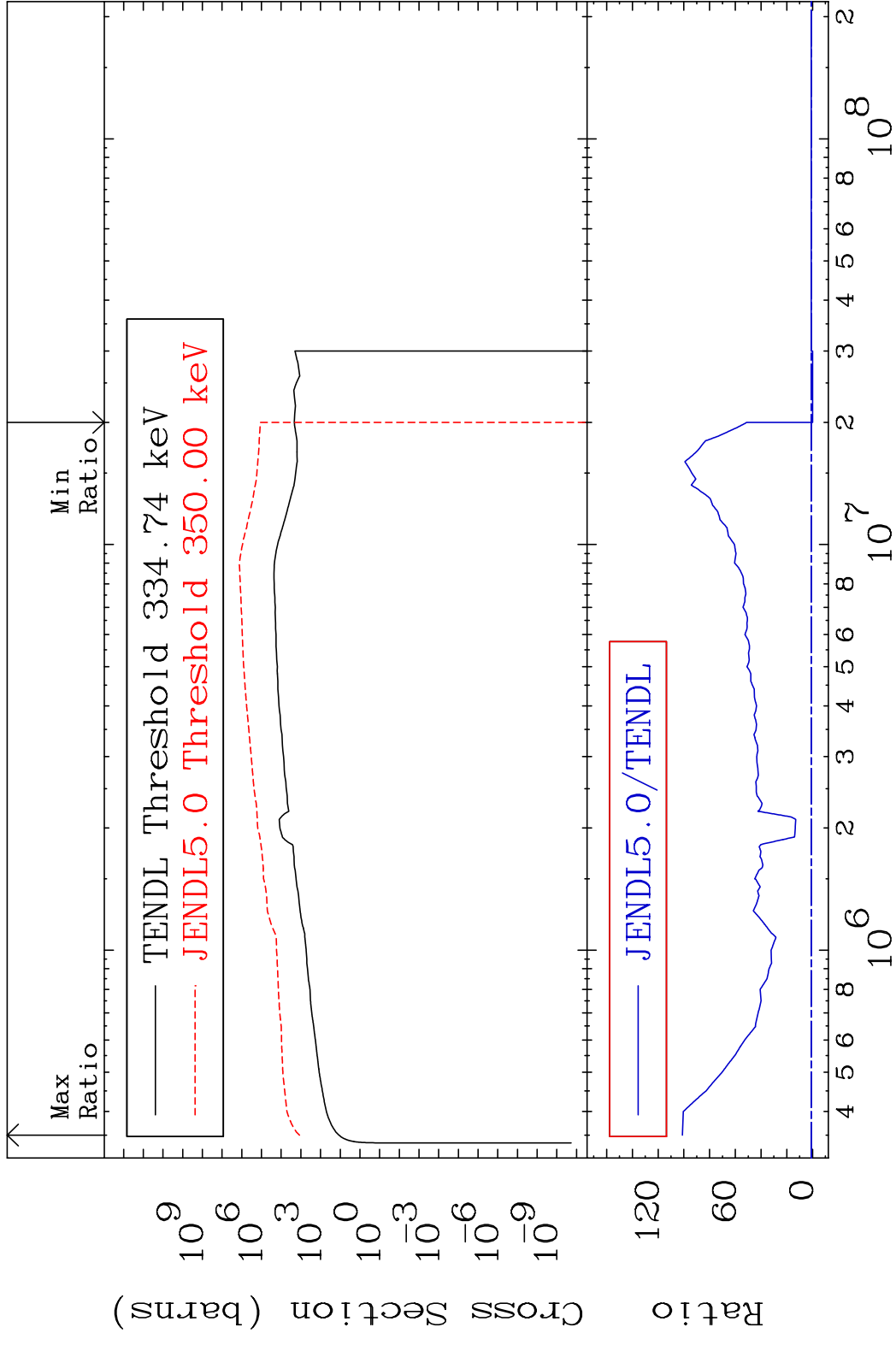


MAT 5137 Kerma non-elastic (all but mt2) 51-Sb-125  
 Cross Section -9999. To 9999. %



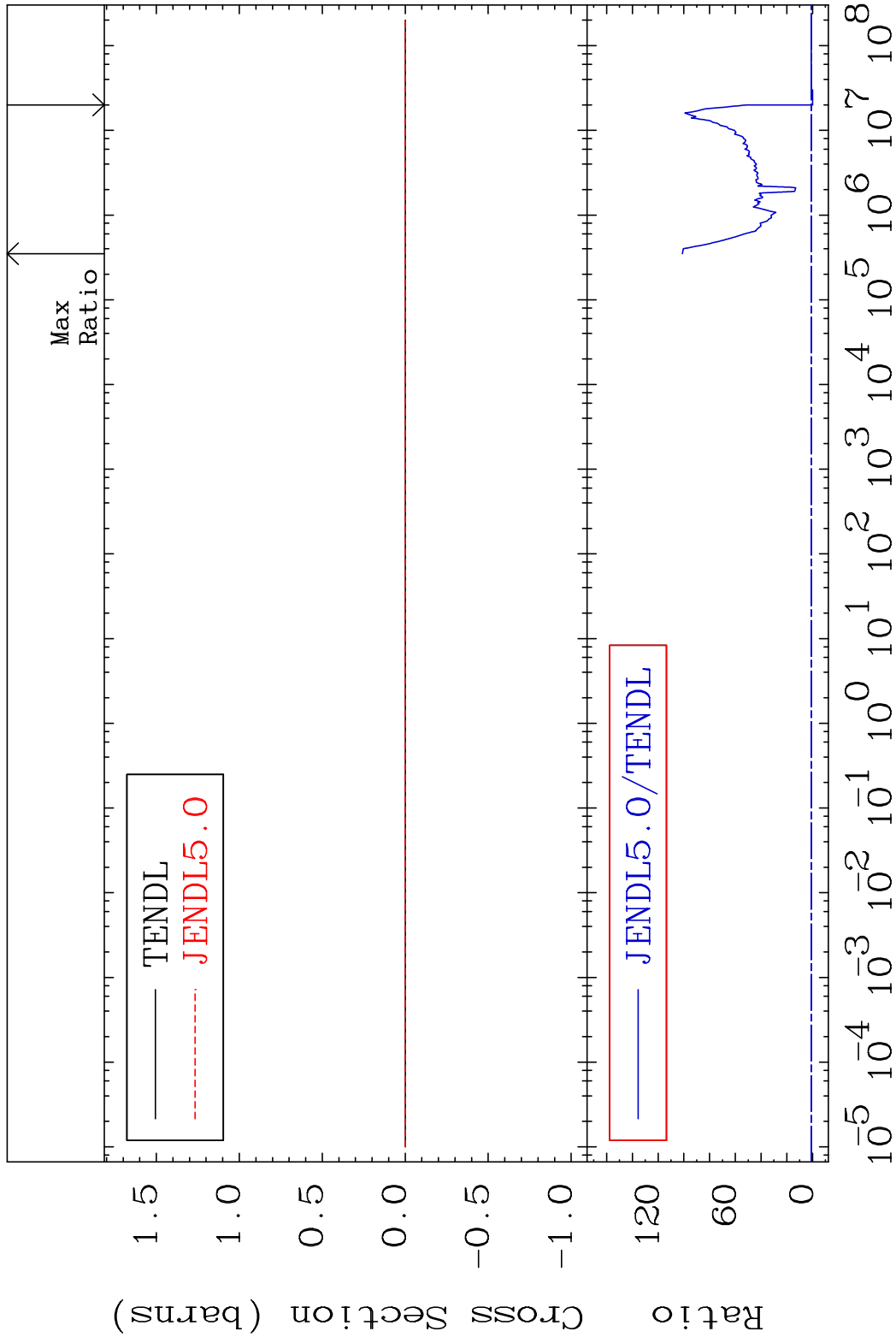


MAT 5137 Kerma inelastic (mt51-91) 51-Sb-125  
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 51-Sb-125

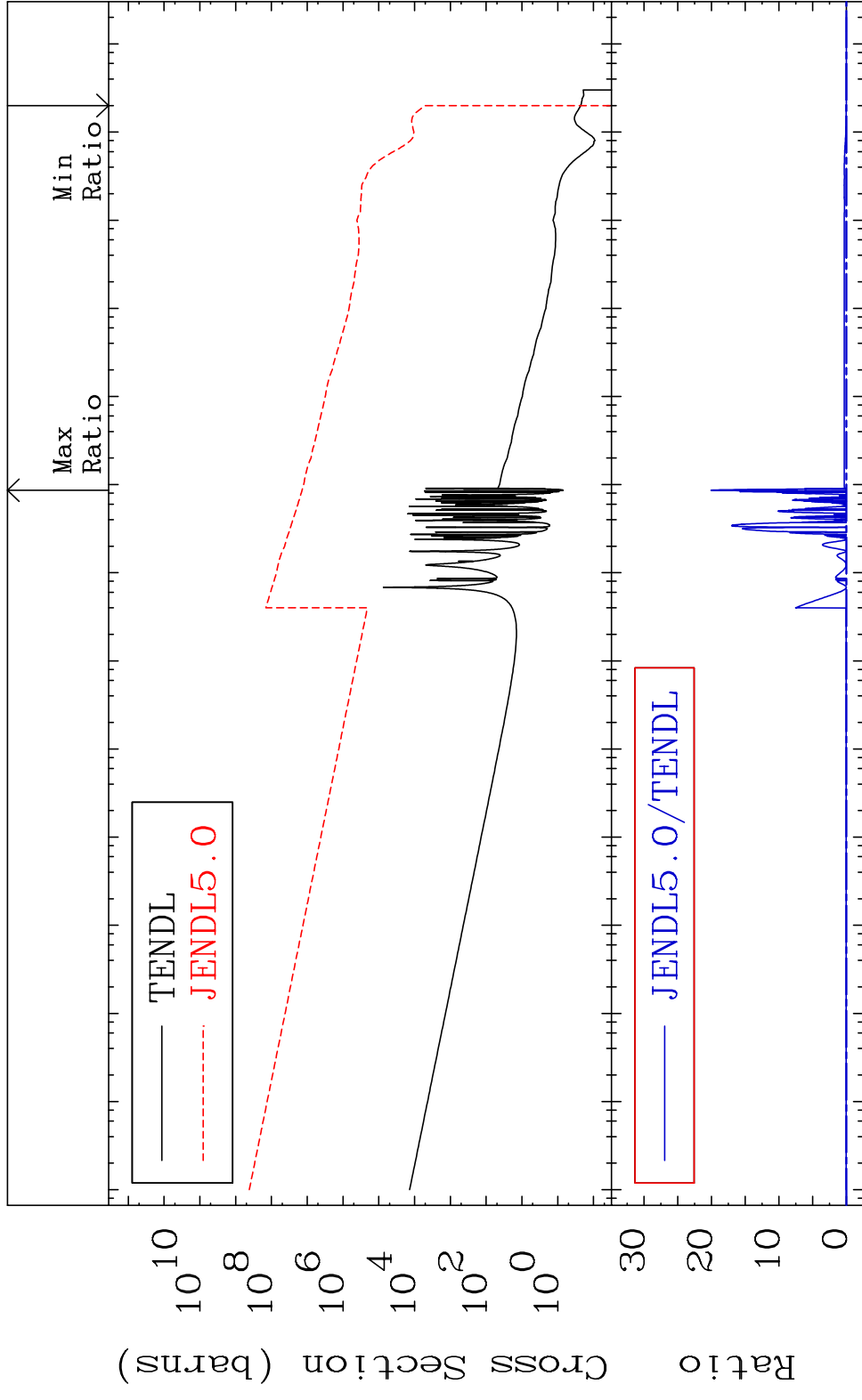
MAT 5137 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-125  
 Cross Section -100.0 To 9999. %



MAT 5137

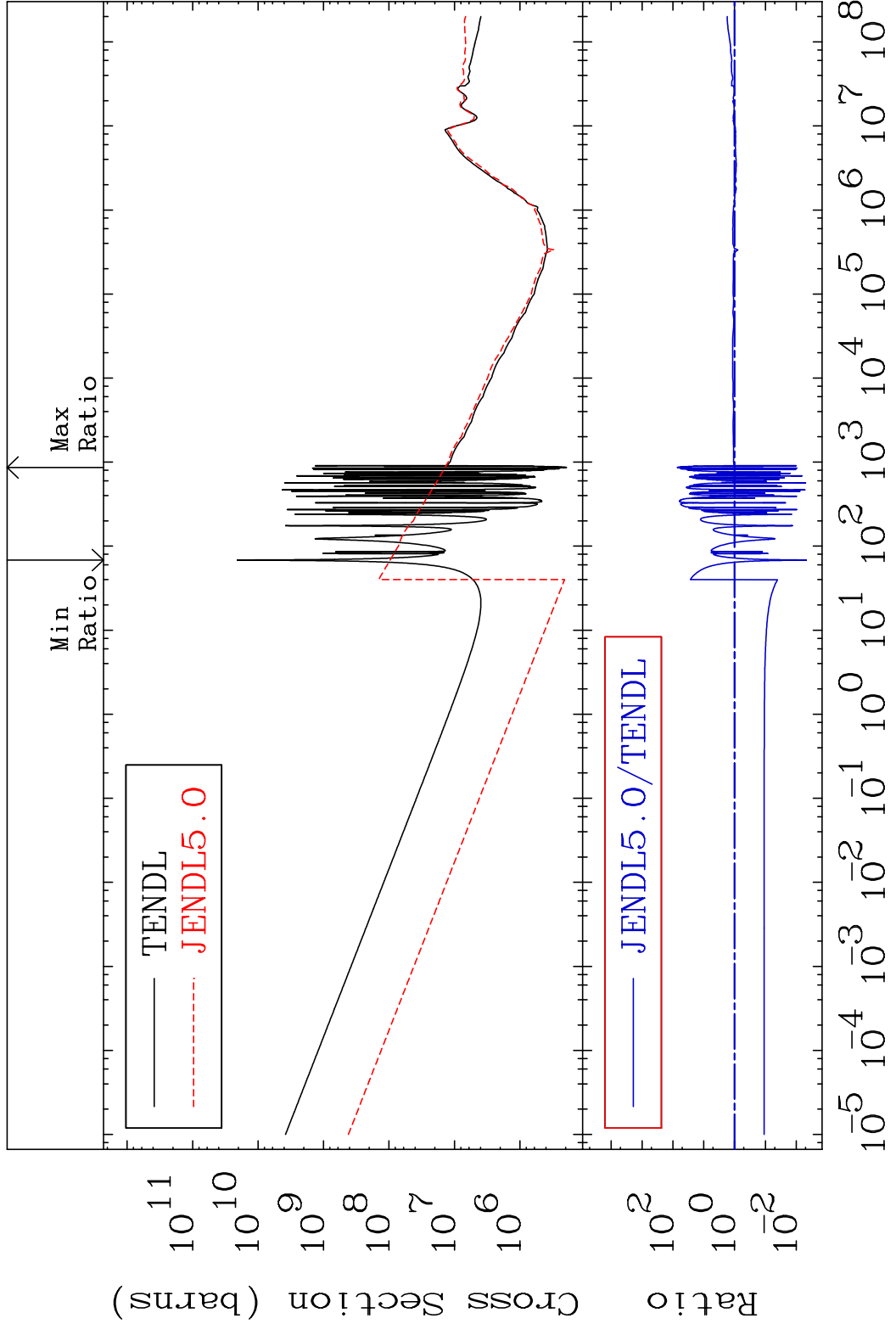
Kerma capture (mt102) 51-Sb-125

Cross Section -100.0 To 9999. %

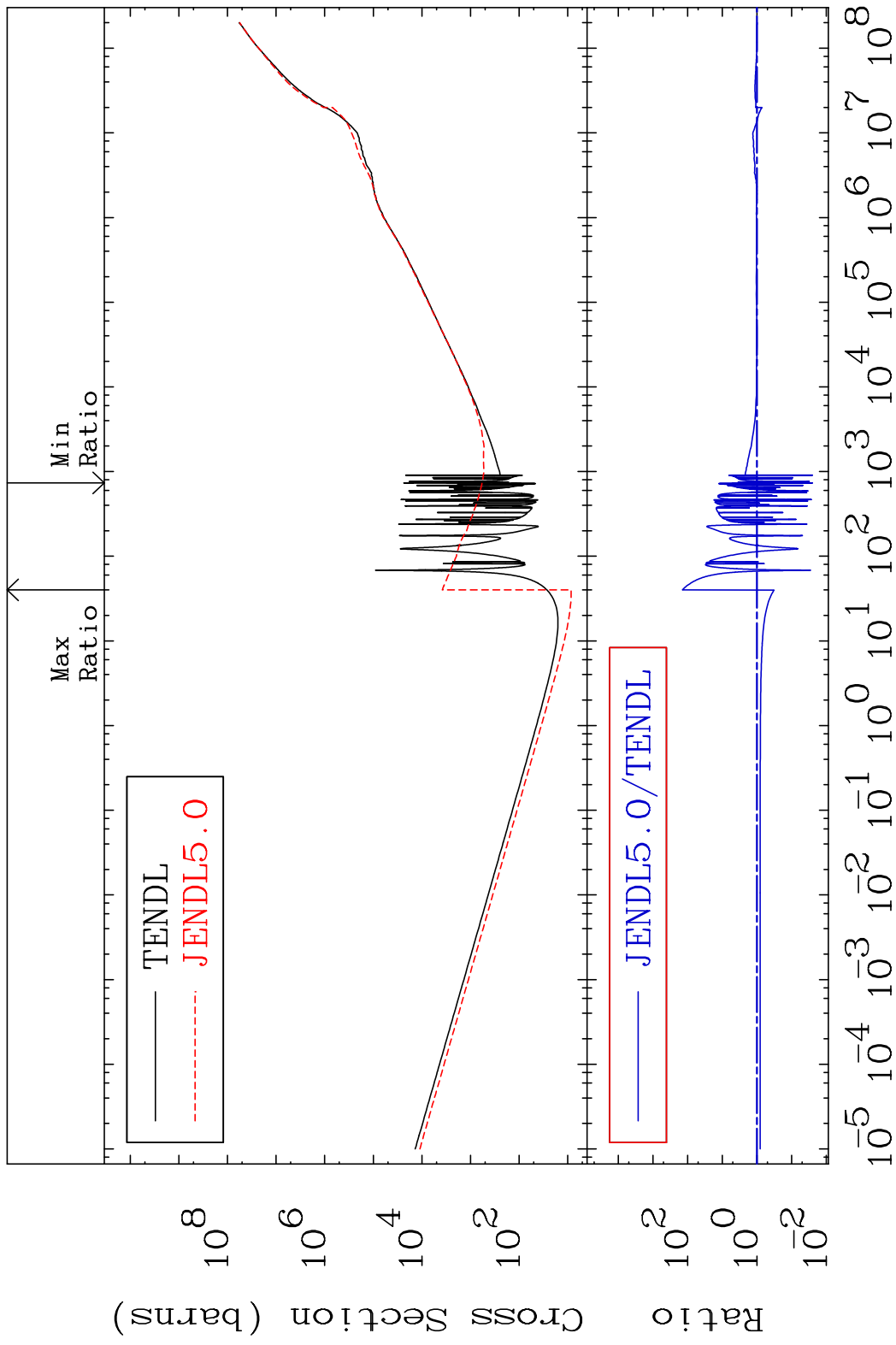


MAT 5137

Total photon (eV-barns) 51-Sb-125  
Cross Section -99.53 To 7145. %



MAT 5137 Total kinematic kerma (high limit) 51-Sb-125  
 Cross Section -97.52 To 9999. %

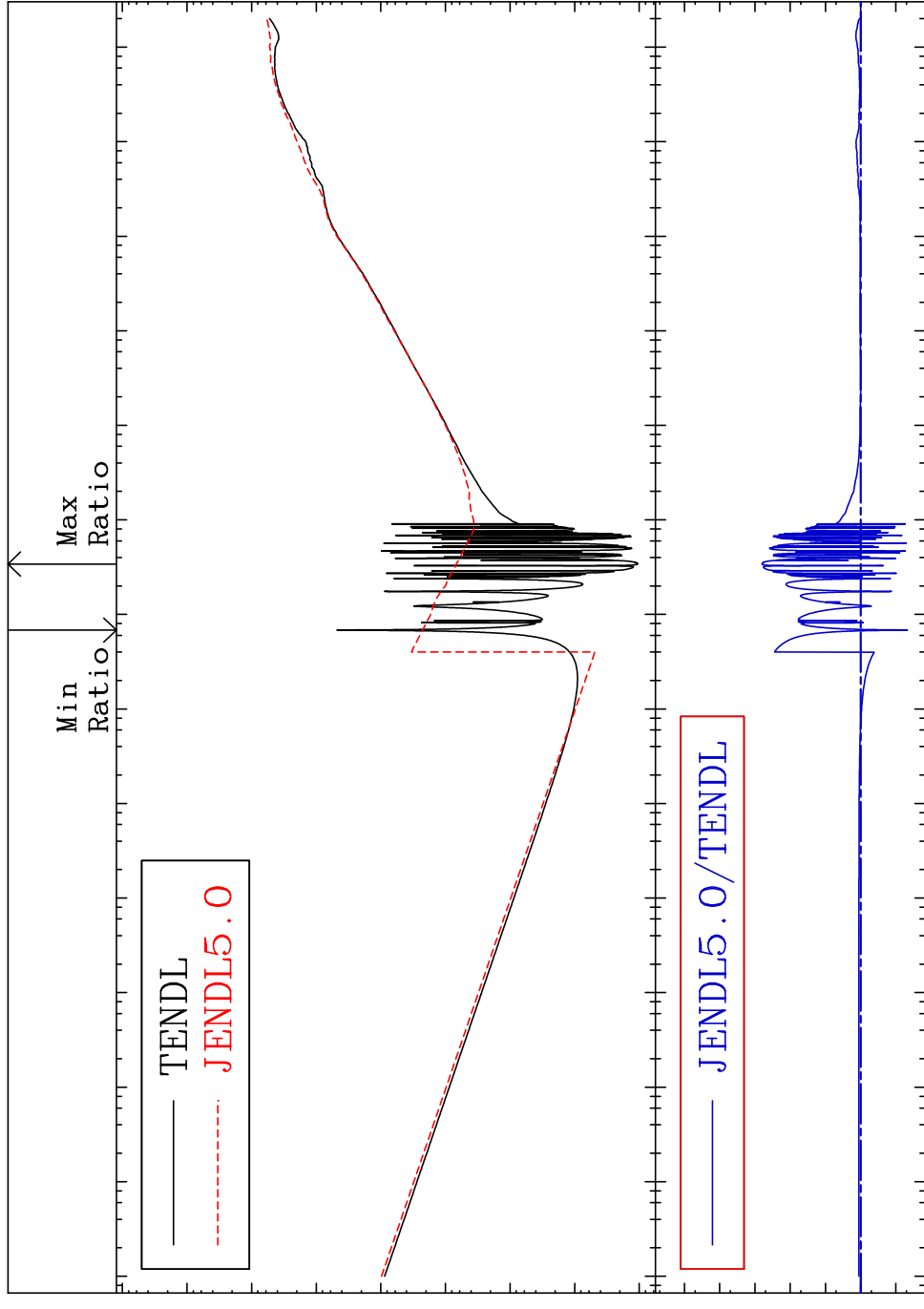


MAT 5137

Dpa total (eV-barns)

51-Sb-125

Cross Section -95.22 To 9999. %



Cross Section (barns)  
Ratio

10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

45

Incident Energy (eV)

51-Sb-125

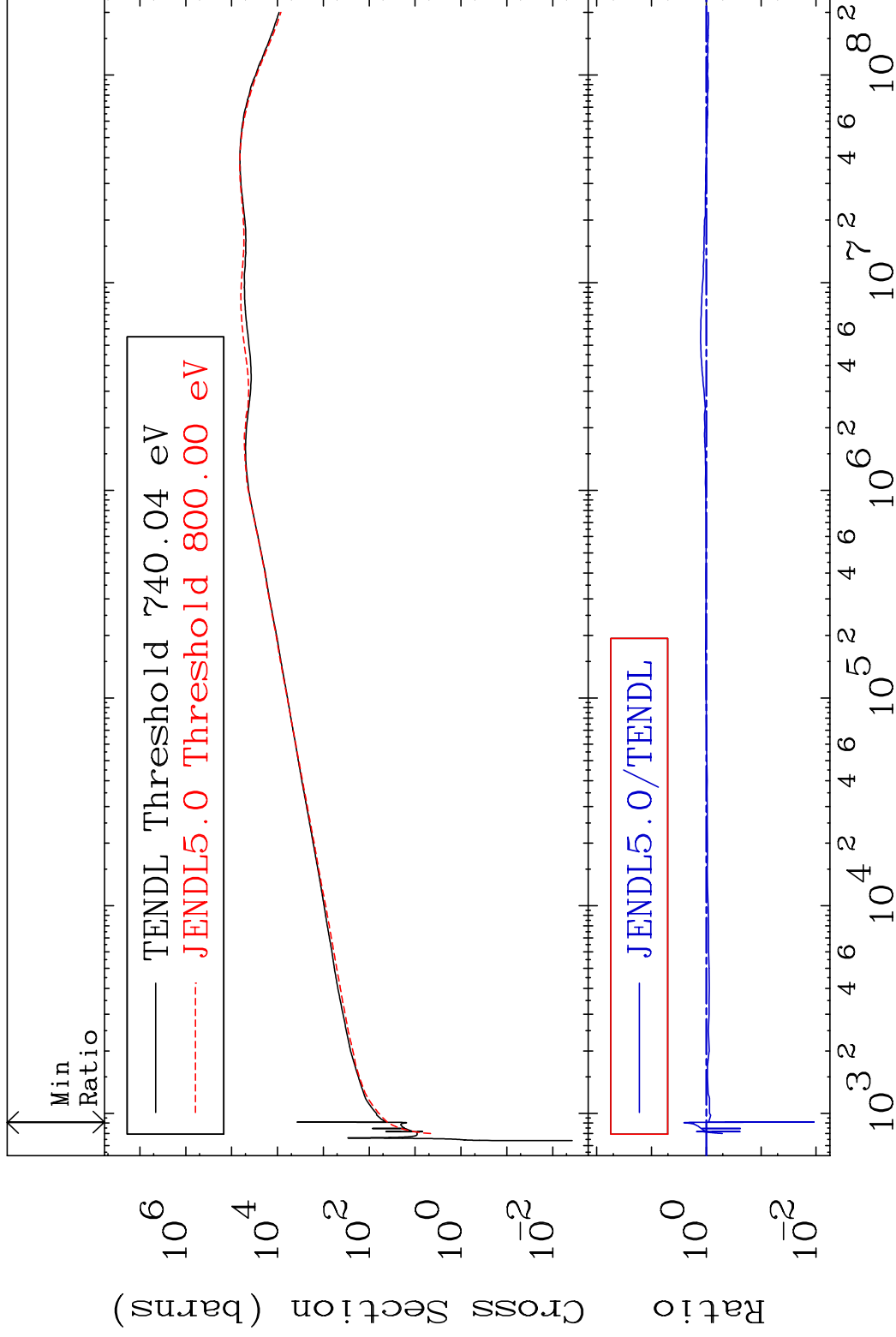
MAT 5137

Dpa elastic (mt2)

51-Sb-125

Cross Section

-98.92 To 159.3 %



46

Incident Energy (eV)

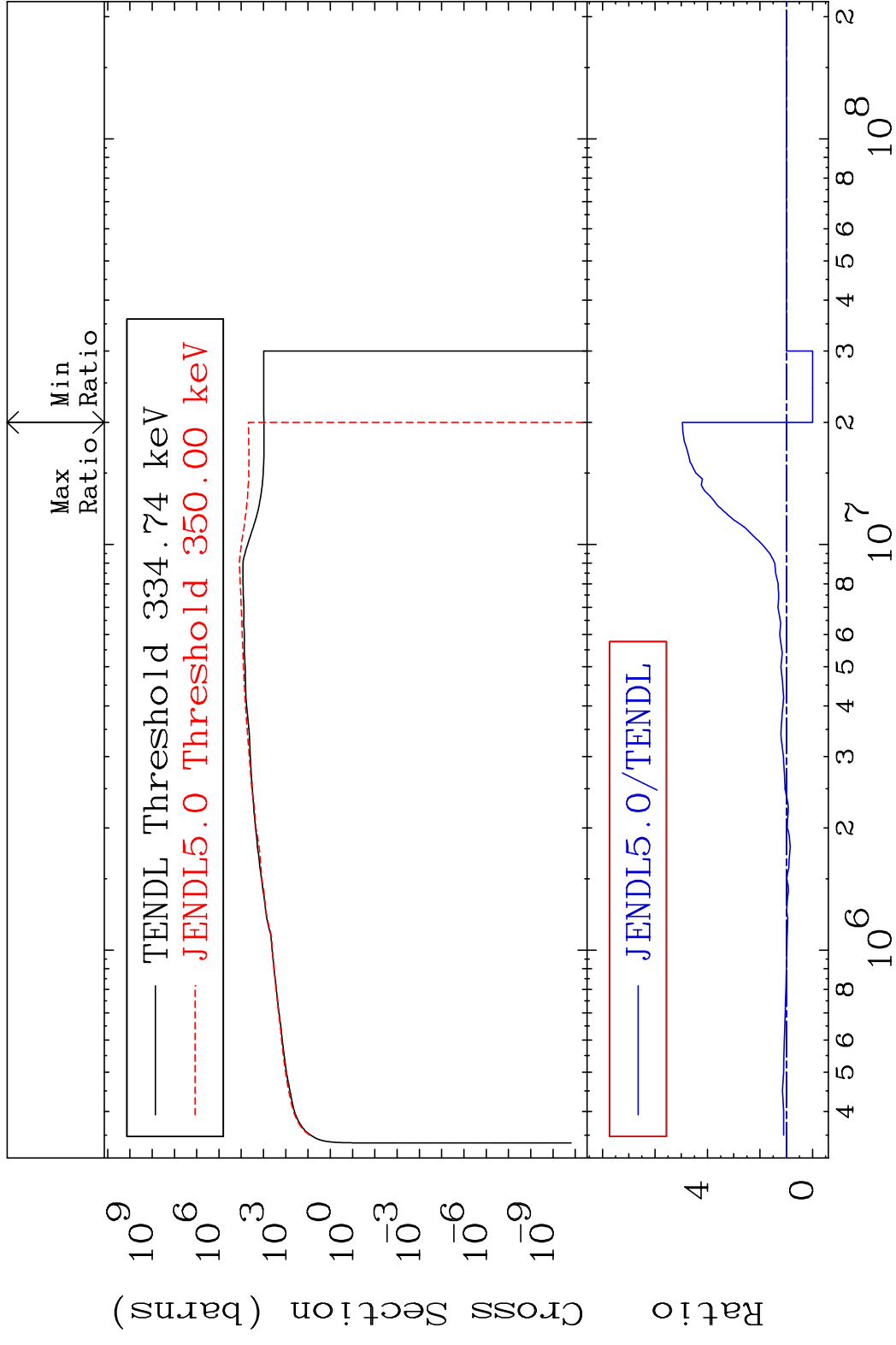
51-Sb-125

MAT 5137

Dpa inelastic (mt51-91)

51-Sb-125

Cross Section -100.0 To 395.8 %



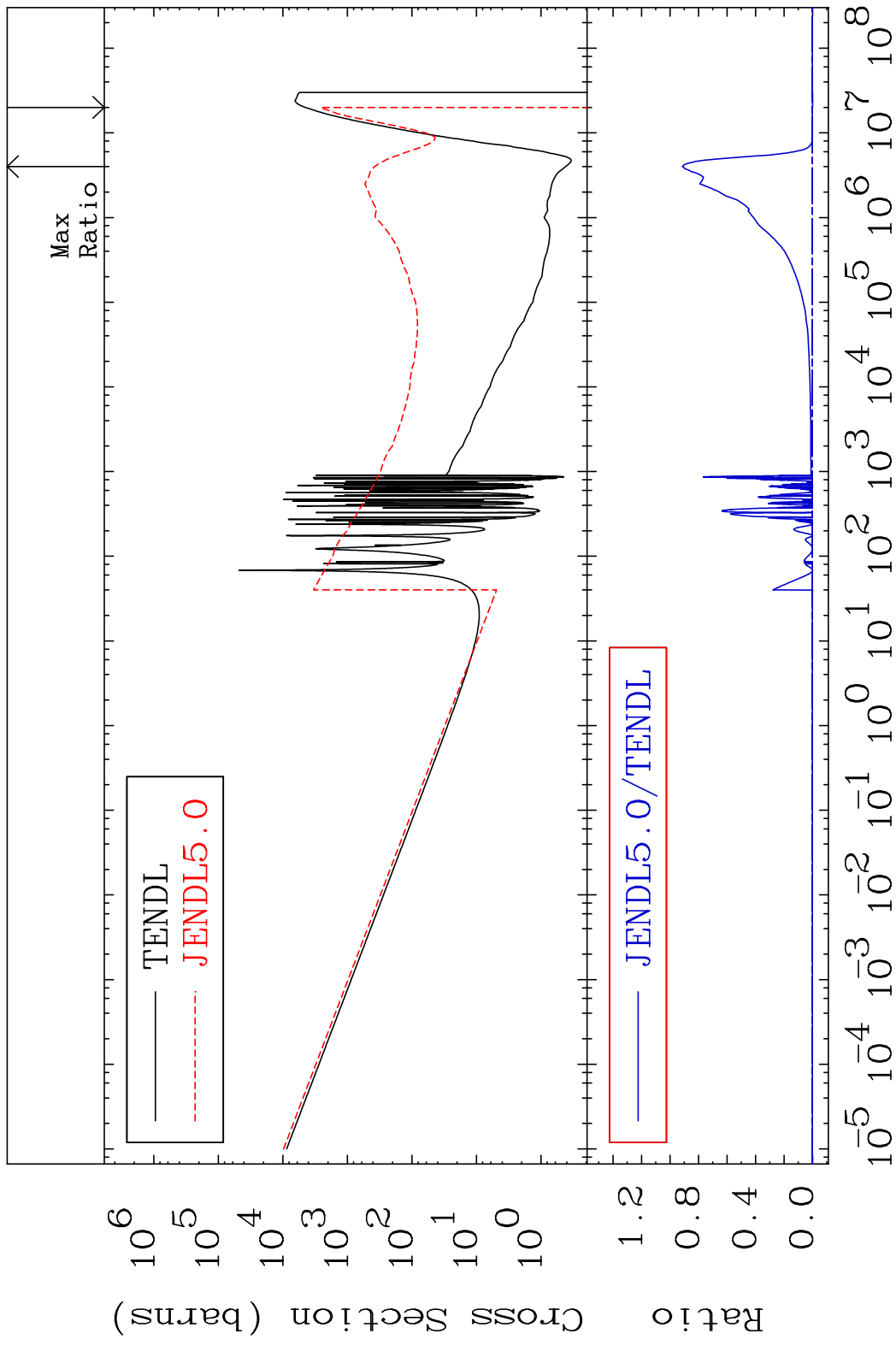
47

Incident Energy (eV)

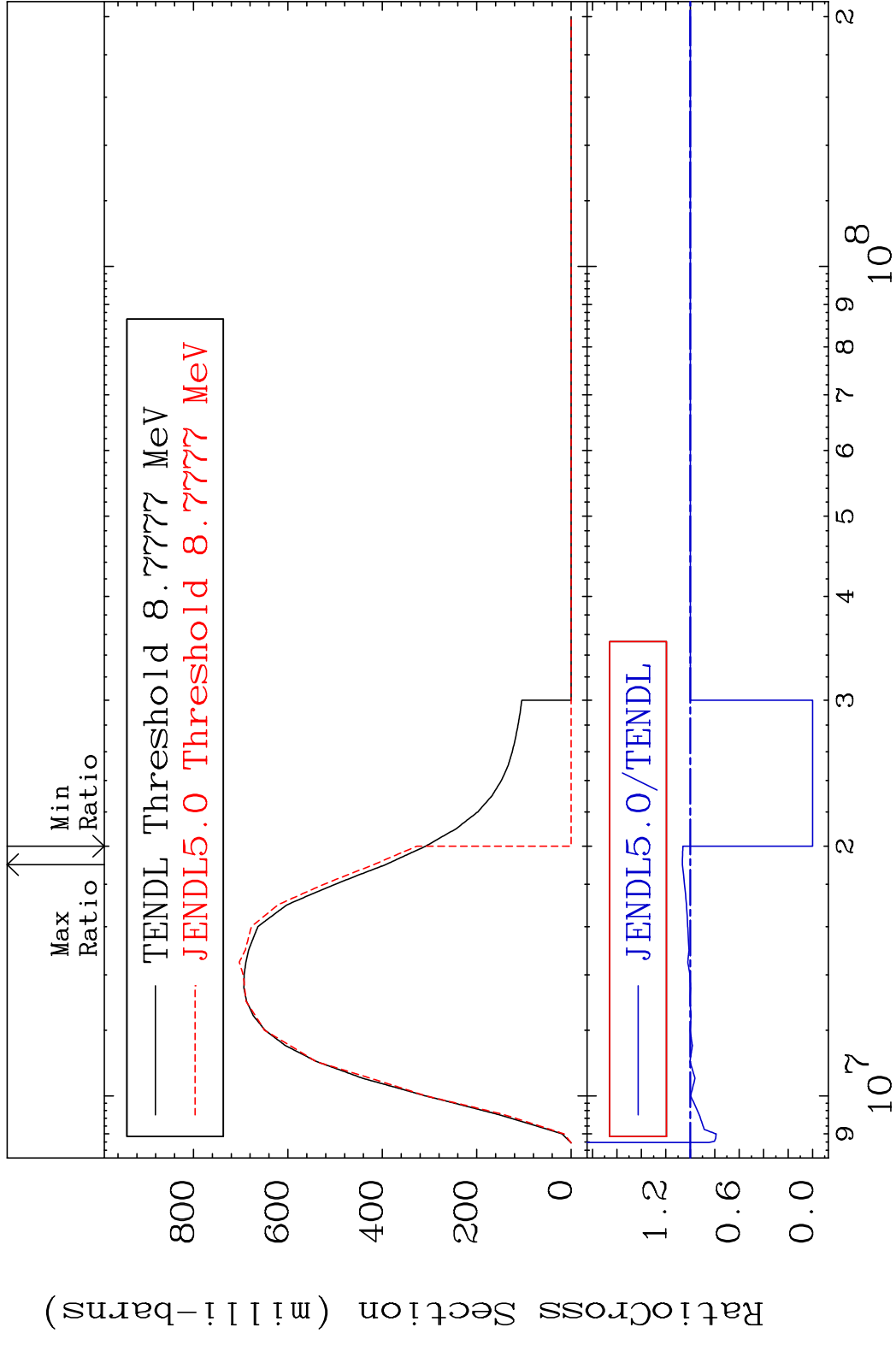
51-Sb-125



MAT 5137 Dpa disappearance (mt102 -120) 51-Sb-125  
 Cross Section -100.0 To 9999. %

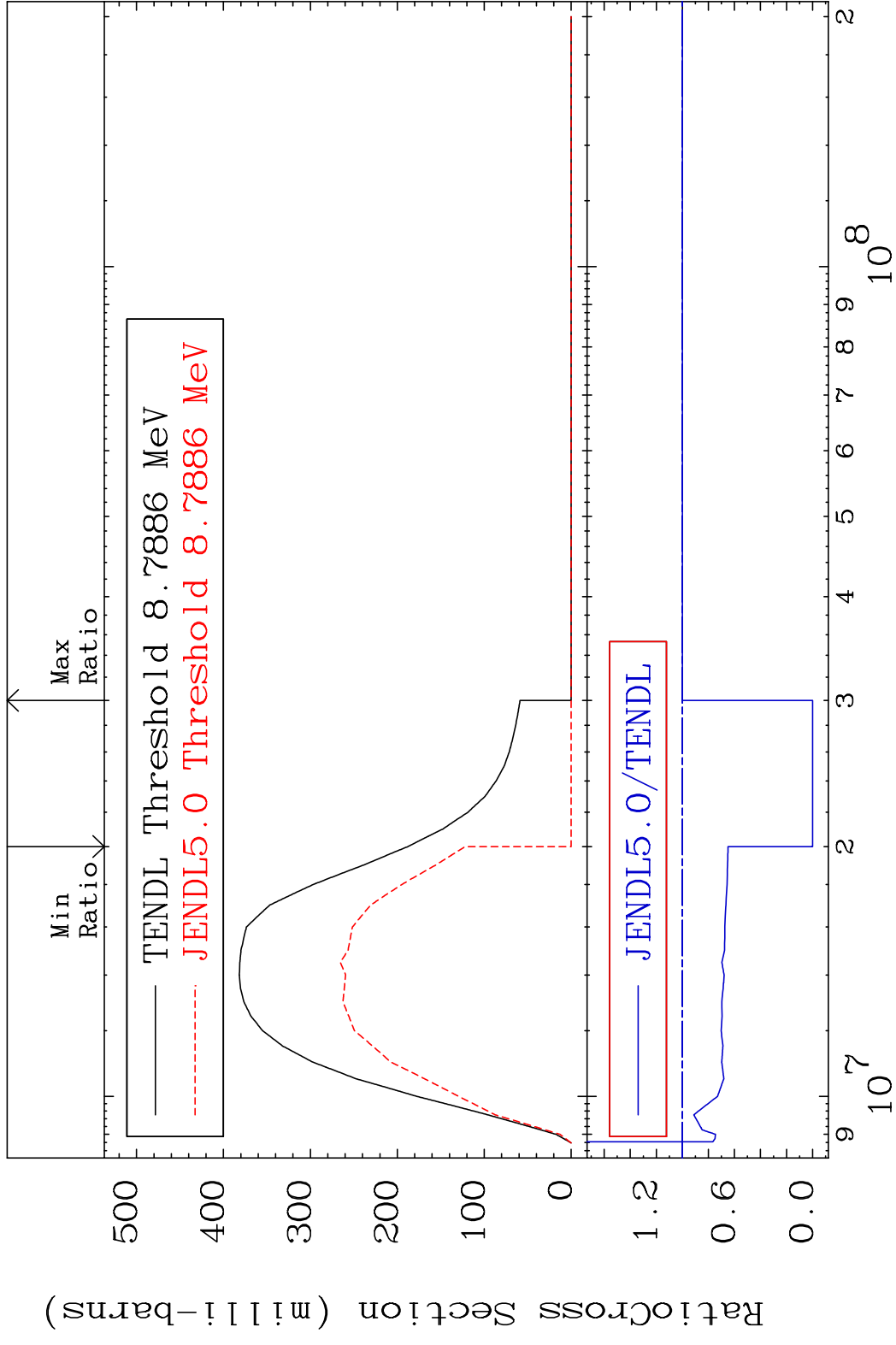


MAT 5137 (n,2n):51-Sb-124g 51-Sb-125  
 Radionuclide Production Cross Section 180.01 dth 6.469 %



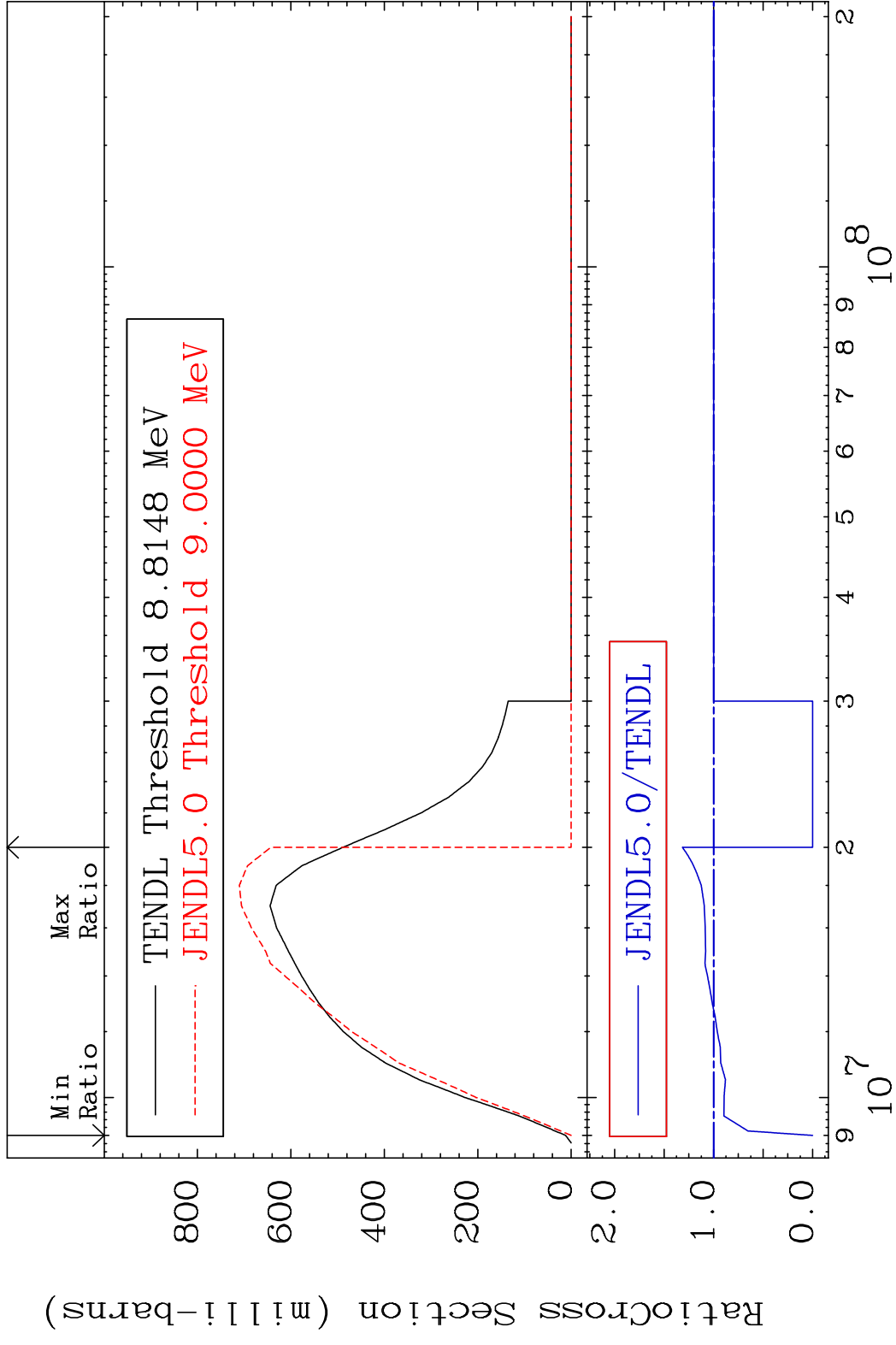
49 Incident Energy (eV) 51-Sb-125

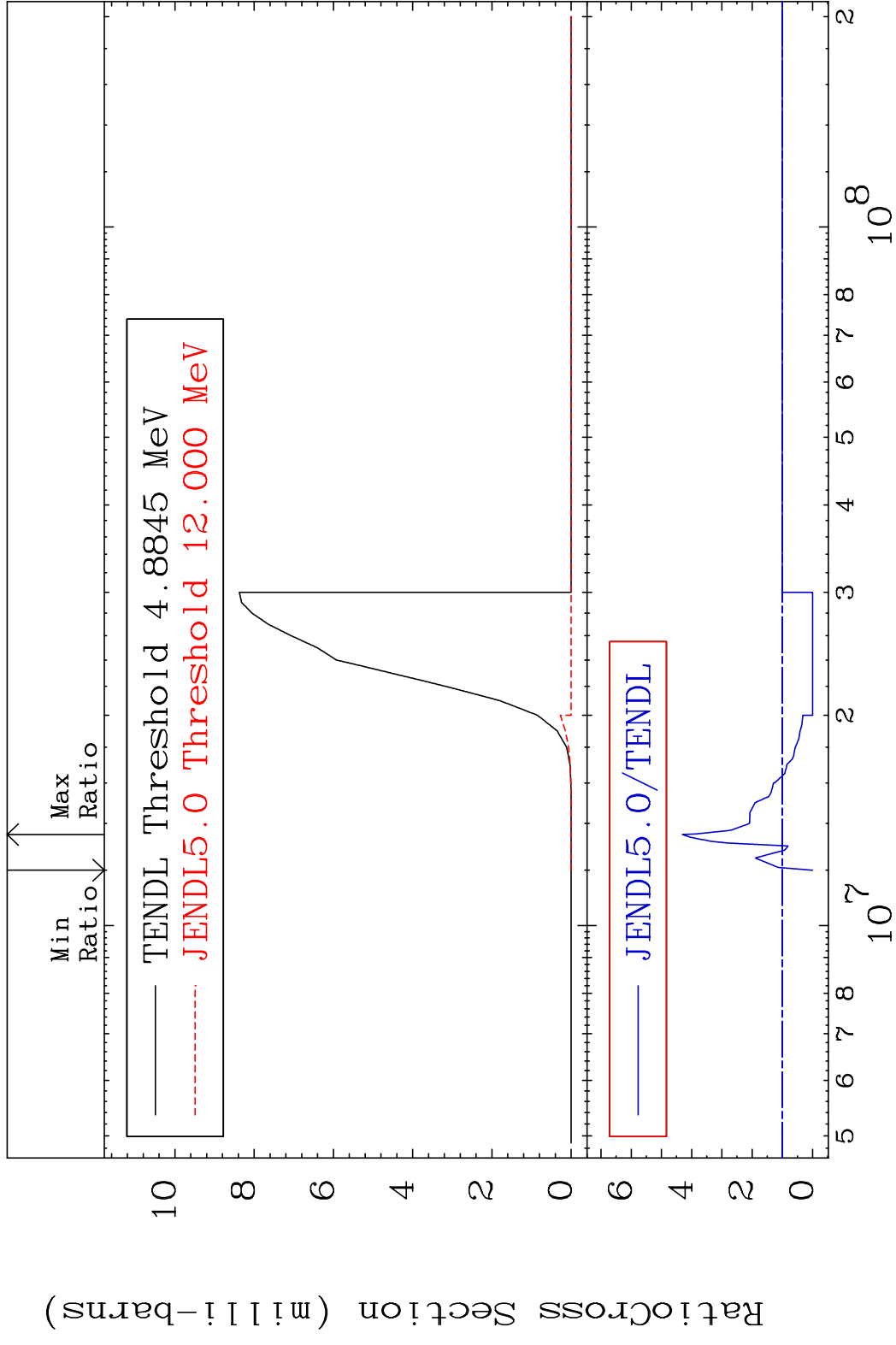
MAT 5137 (n, 2n):51-Sb-124m1 51-Sb-125  
 Radionuclide Production Cross Section 180.00 dth 0.000 %



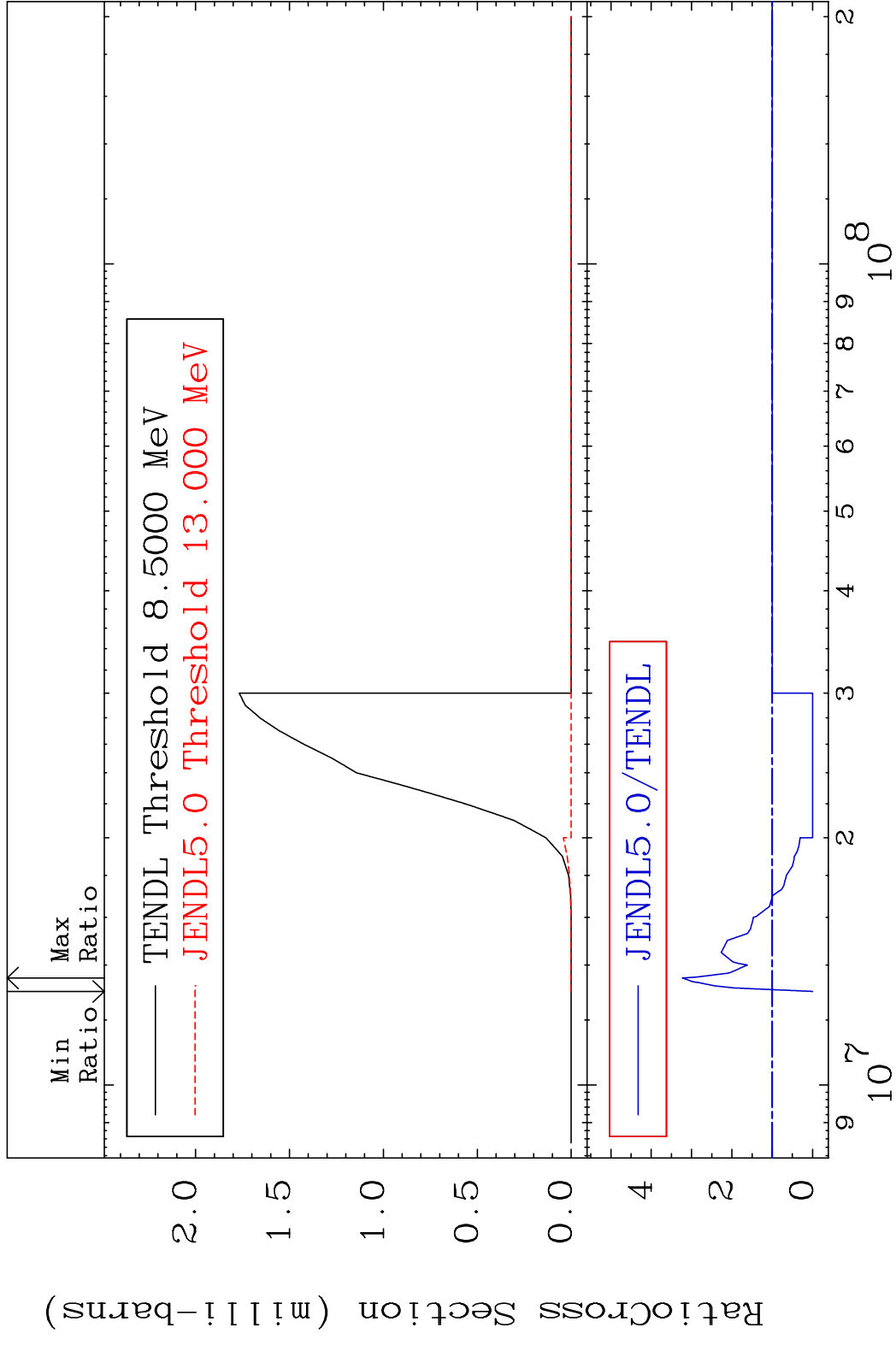
50 Incident Energy (eV) 51-Sb-125

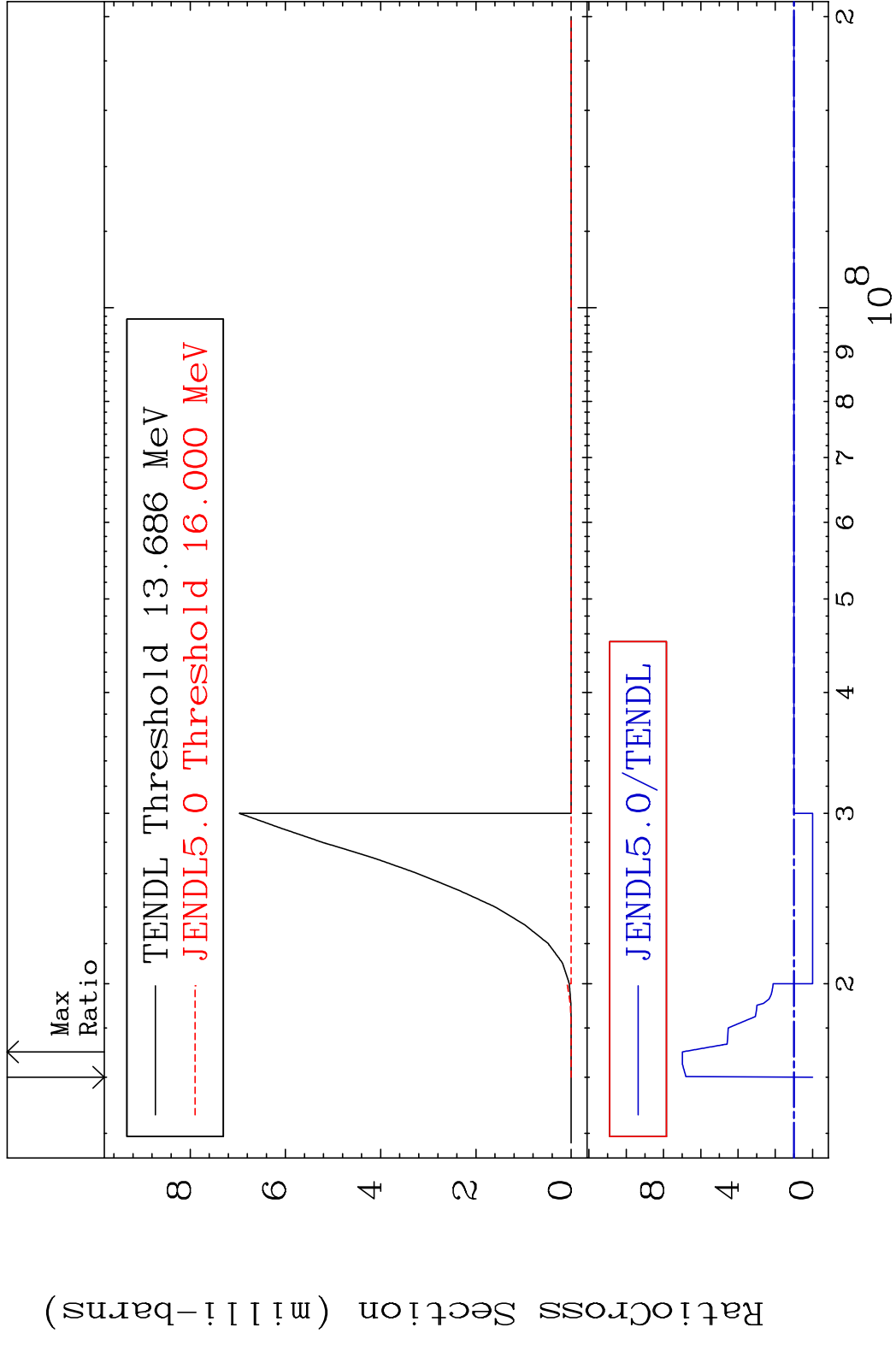
MAT 5137 (n,2n):51-Sb-124m2 51-Sb-125  
 Radionuclide Production Cross Section 180.01 dth 31.57 %

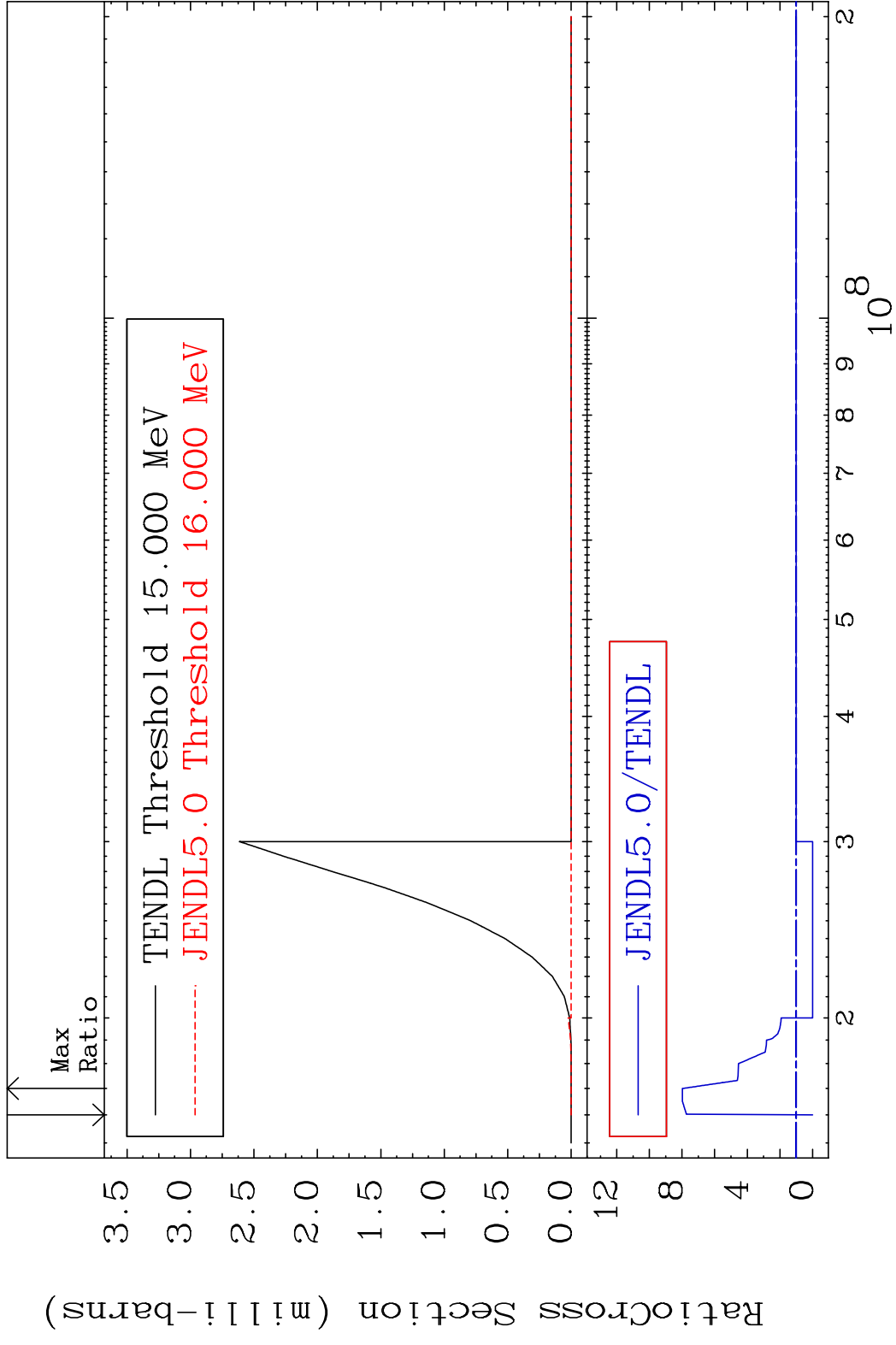




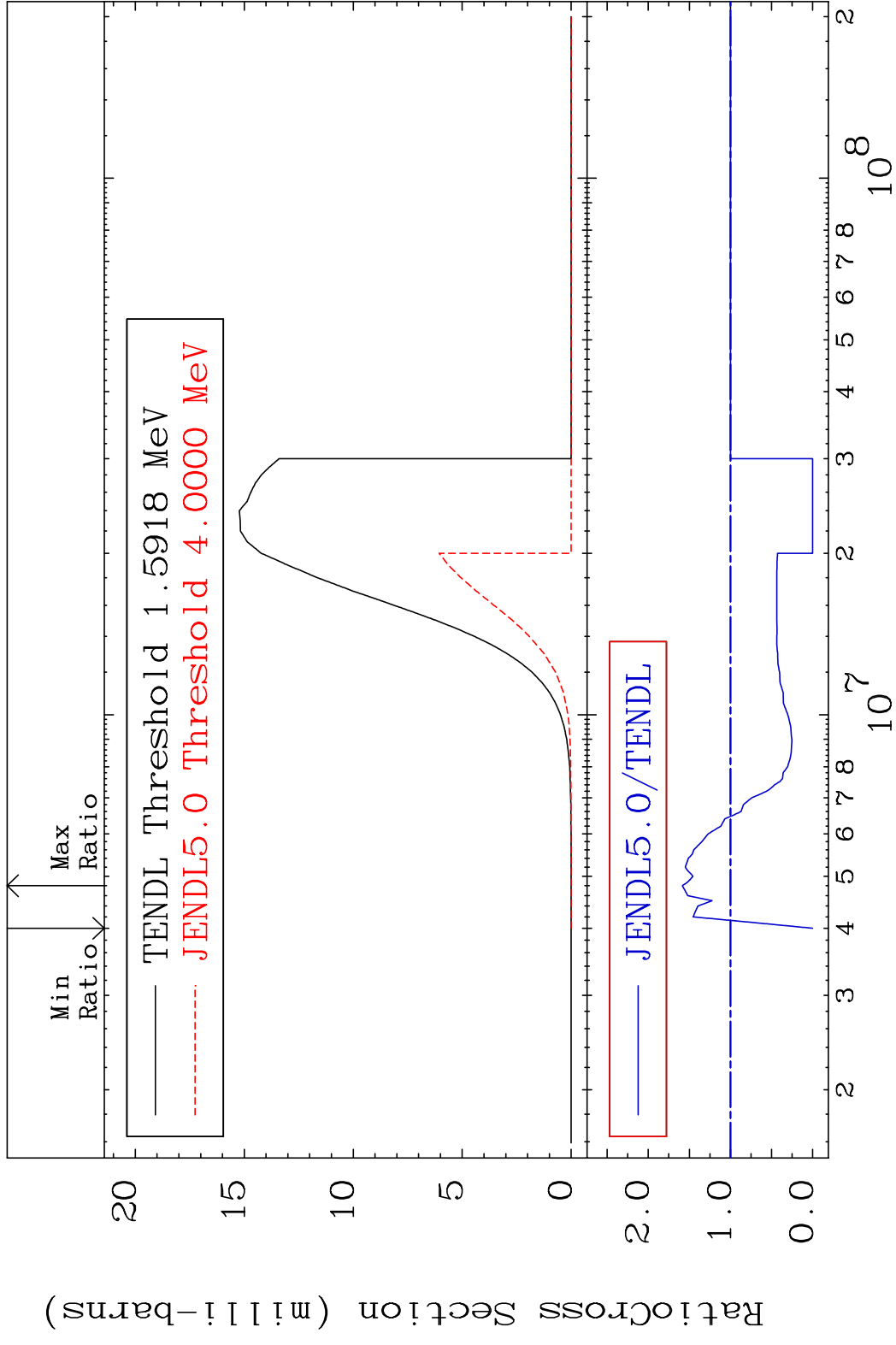
MAT 5137 (n, n')  $\alpha$ :49-In-121m1 51-Sb-125  
 Radionuclide Production Cross Section 180.01 dth 222.9 %

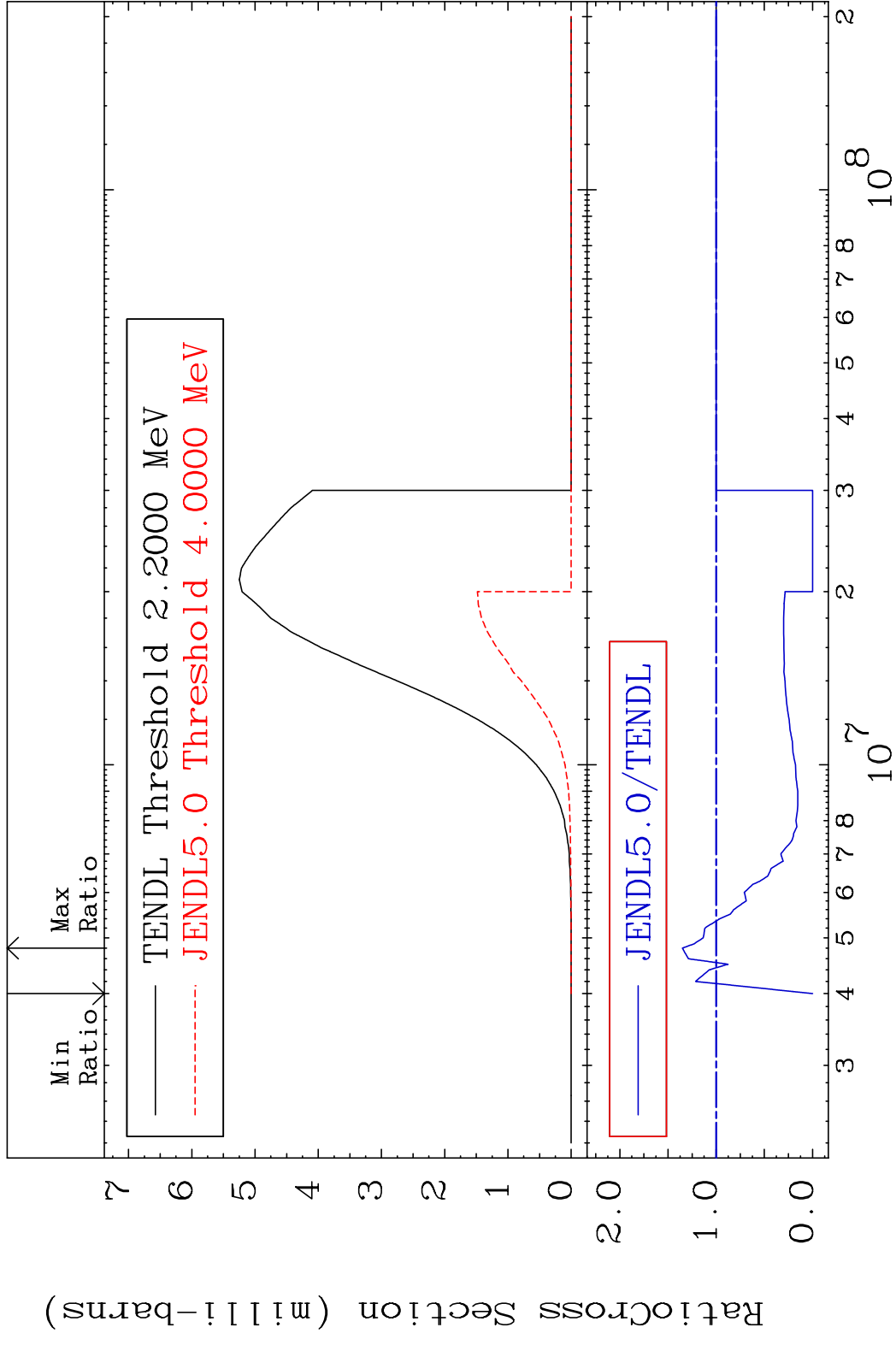




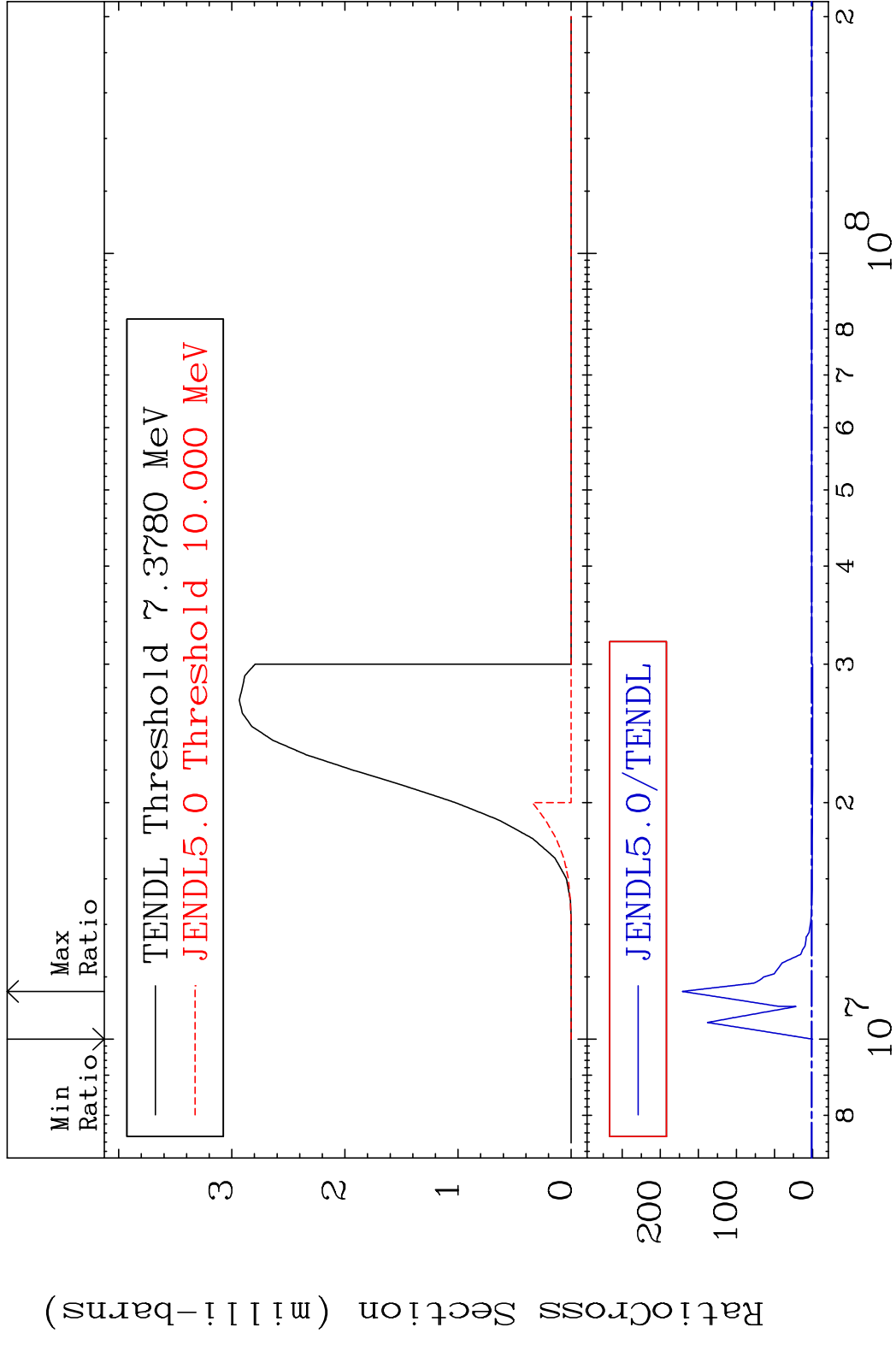


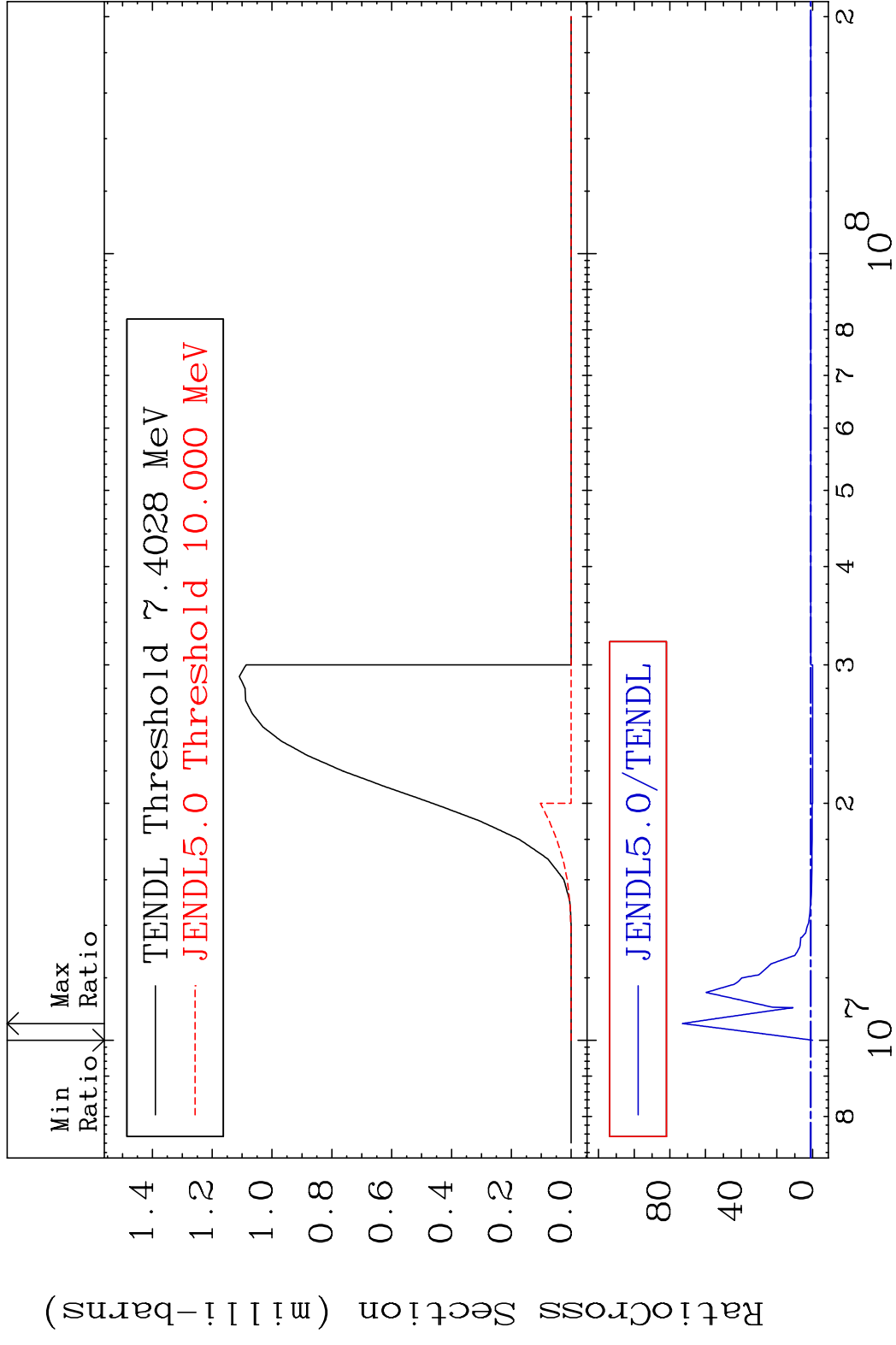


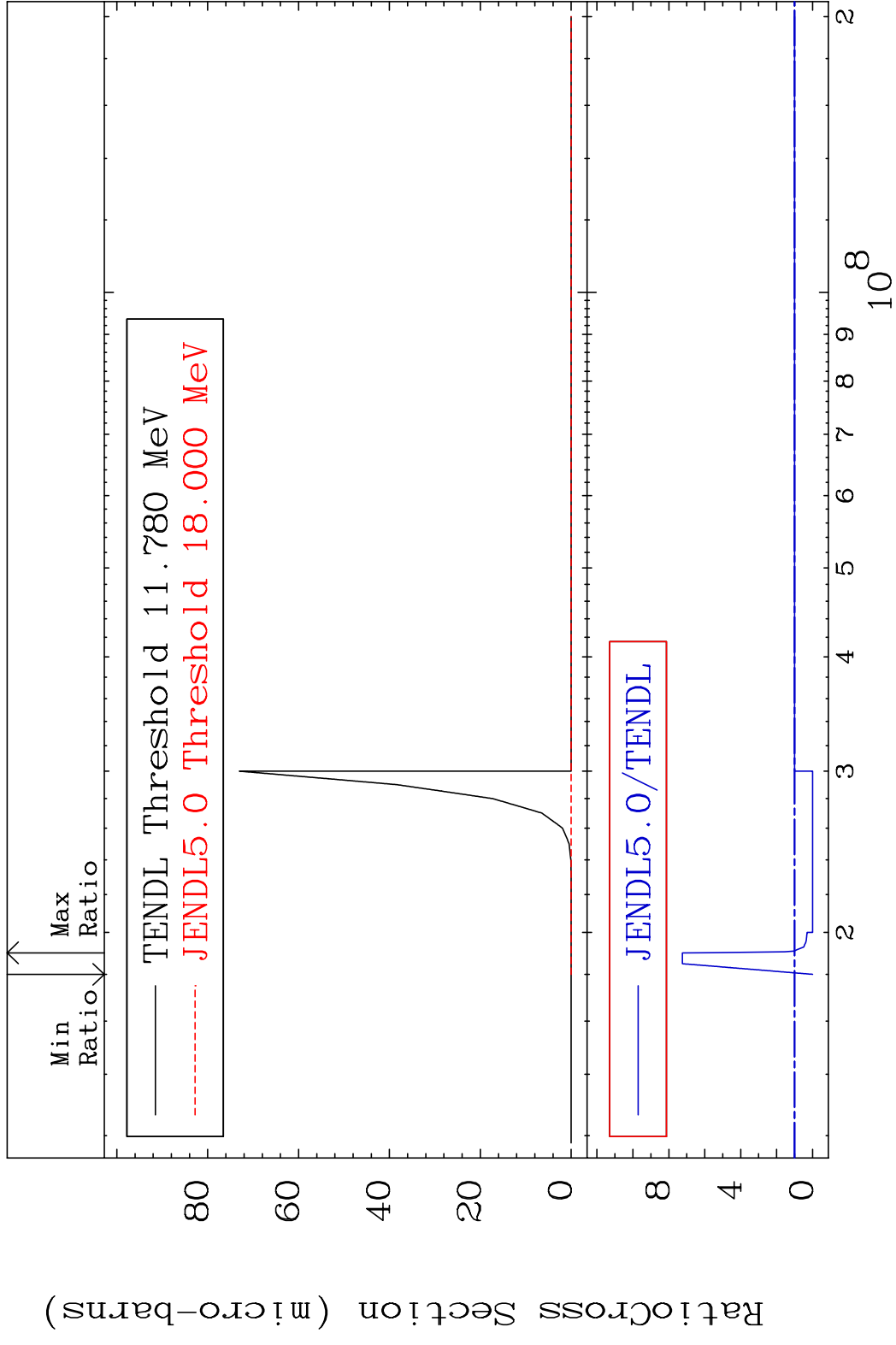


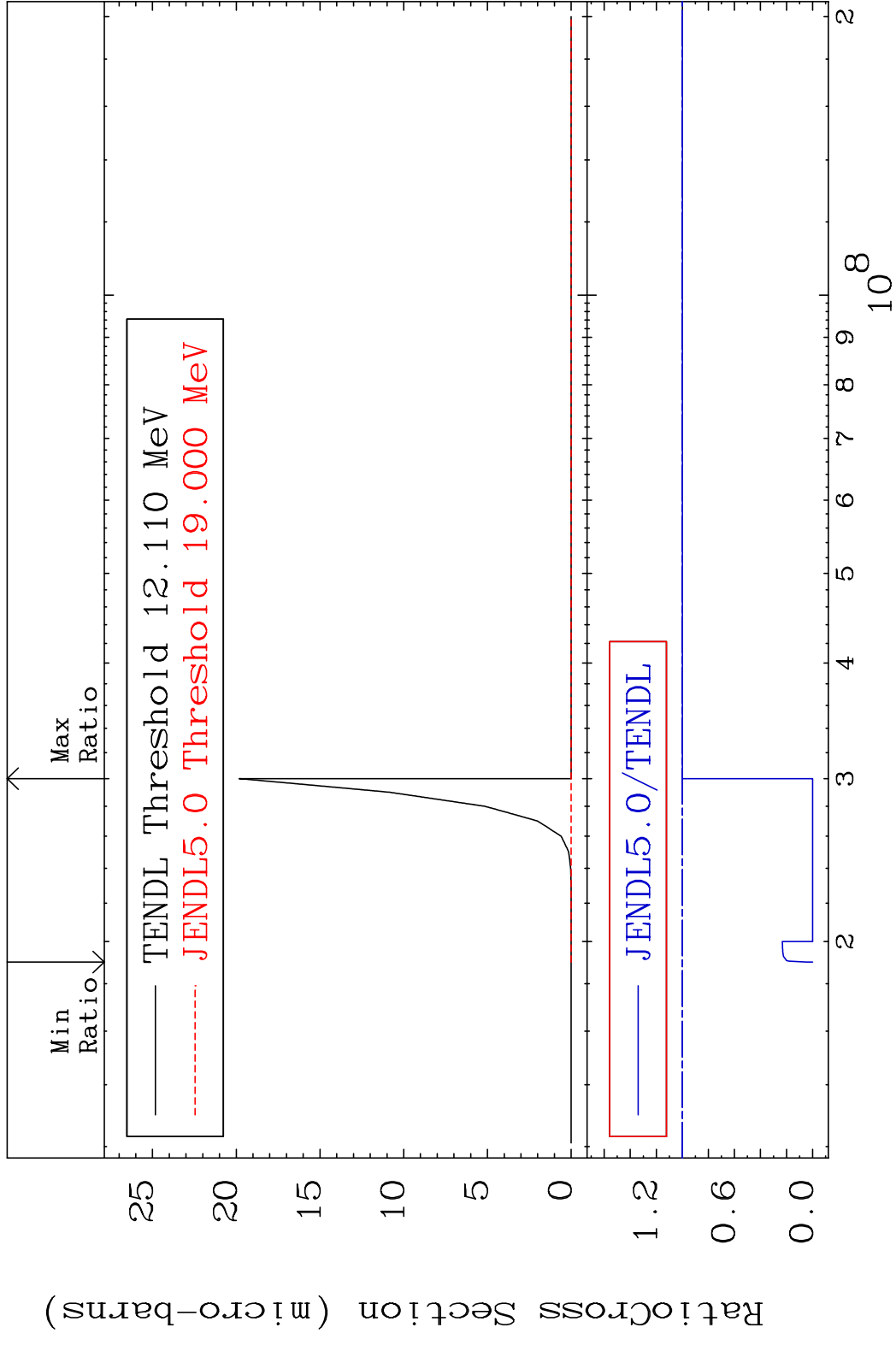


MAT 5137 (n,t):50-Sn-123g 51-Sb-125  
 Radionuclide Production Cross Section (%) 9999.0%

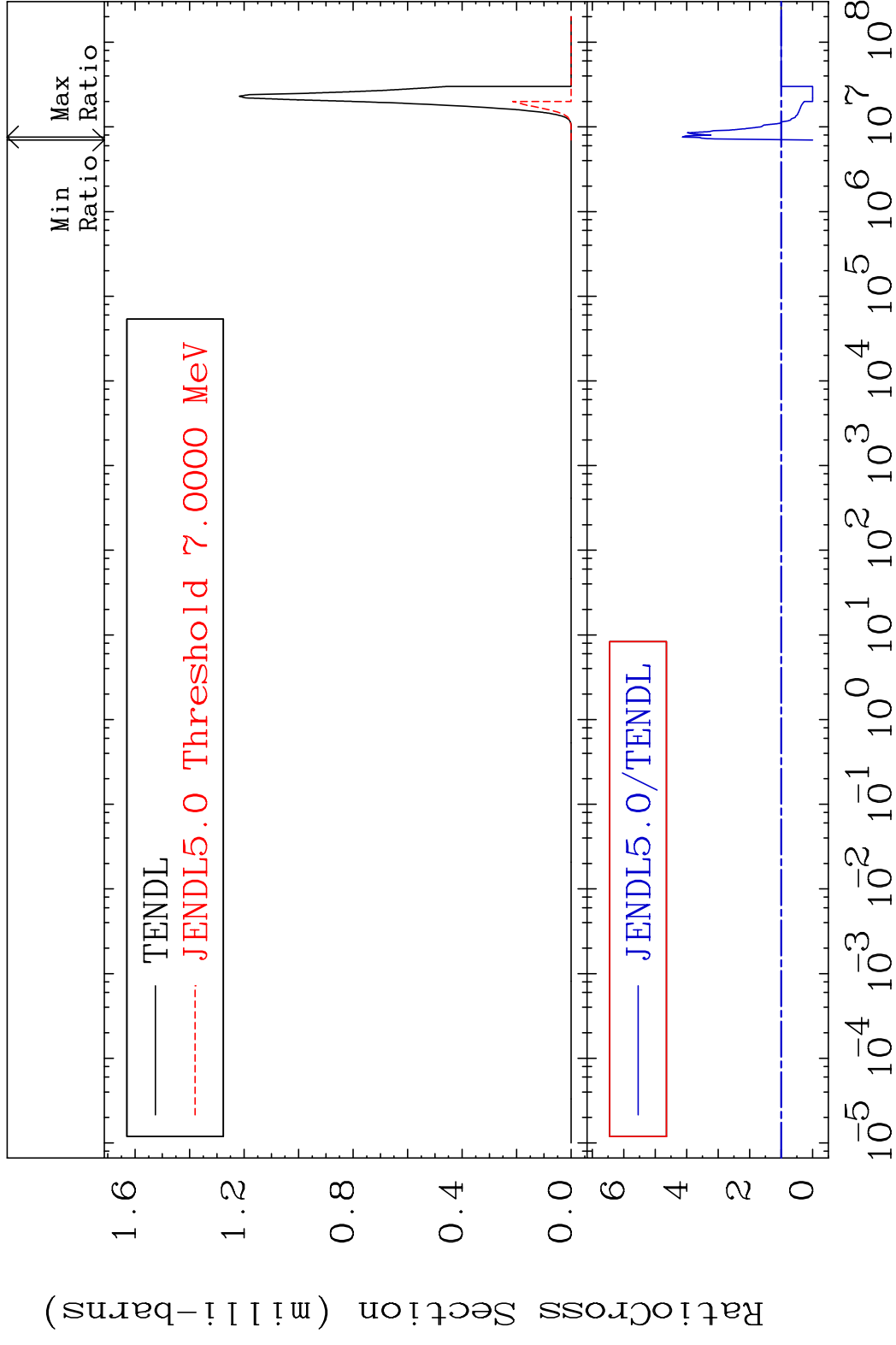


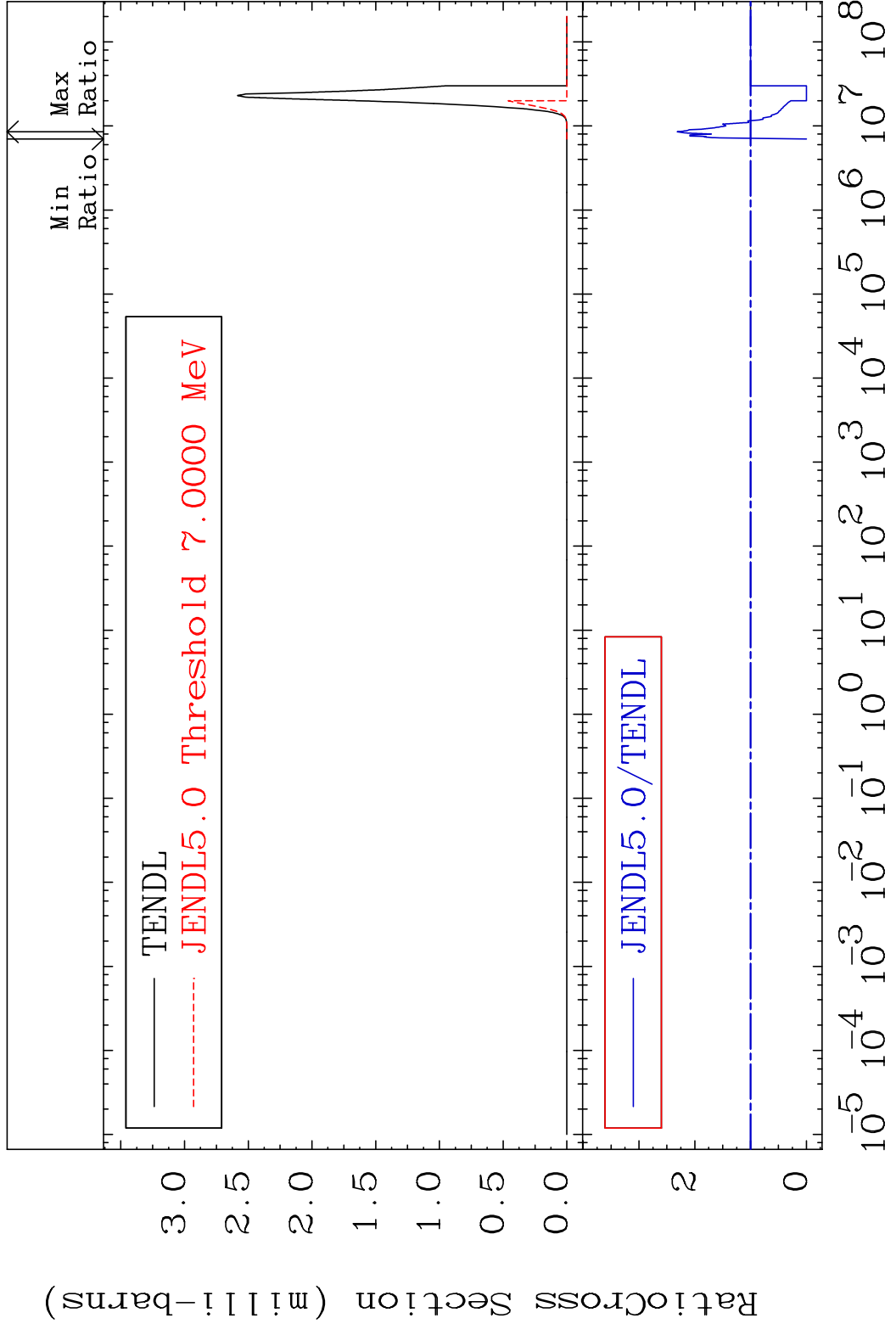




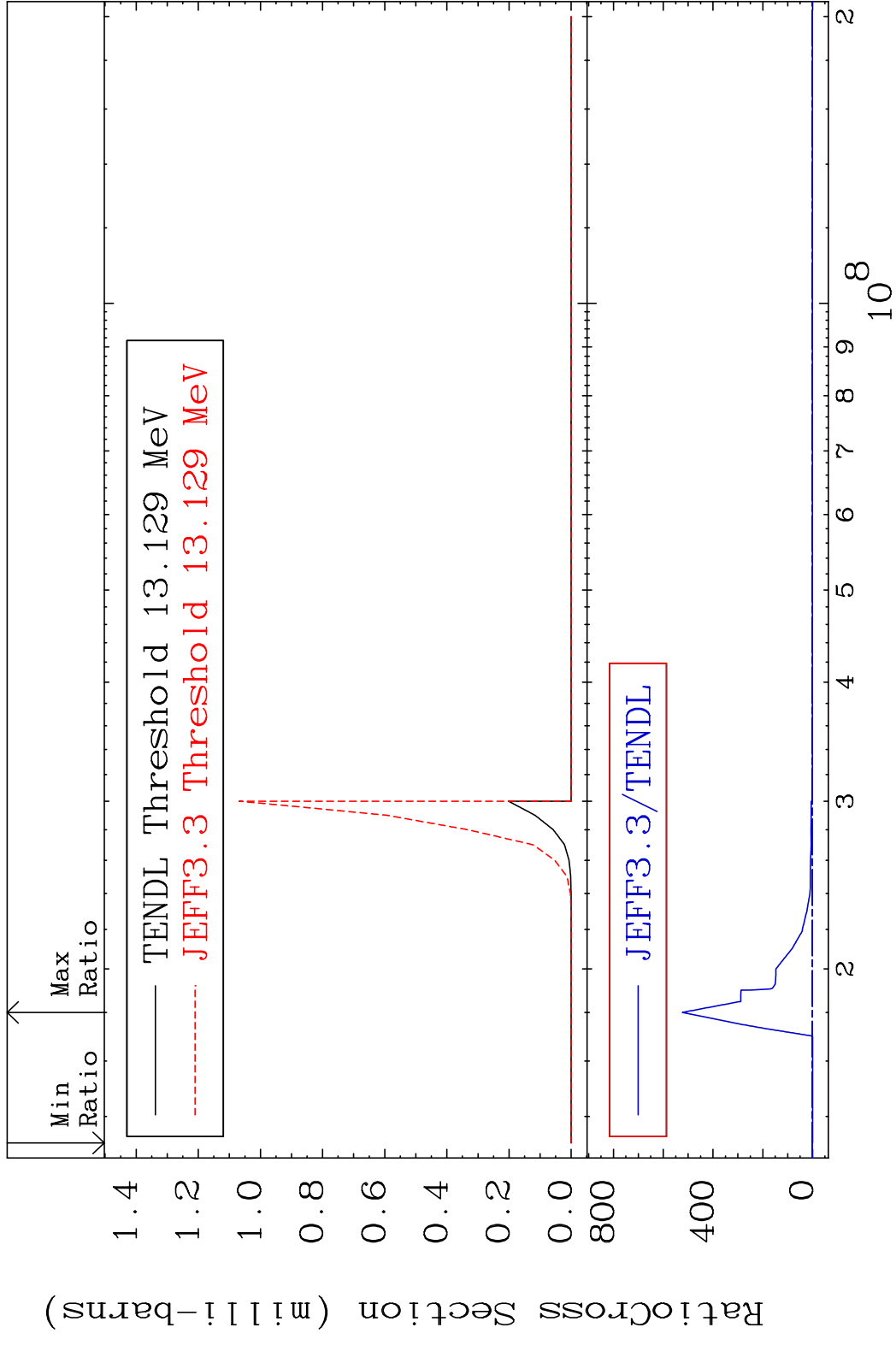


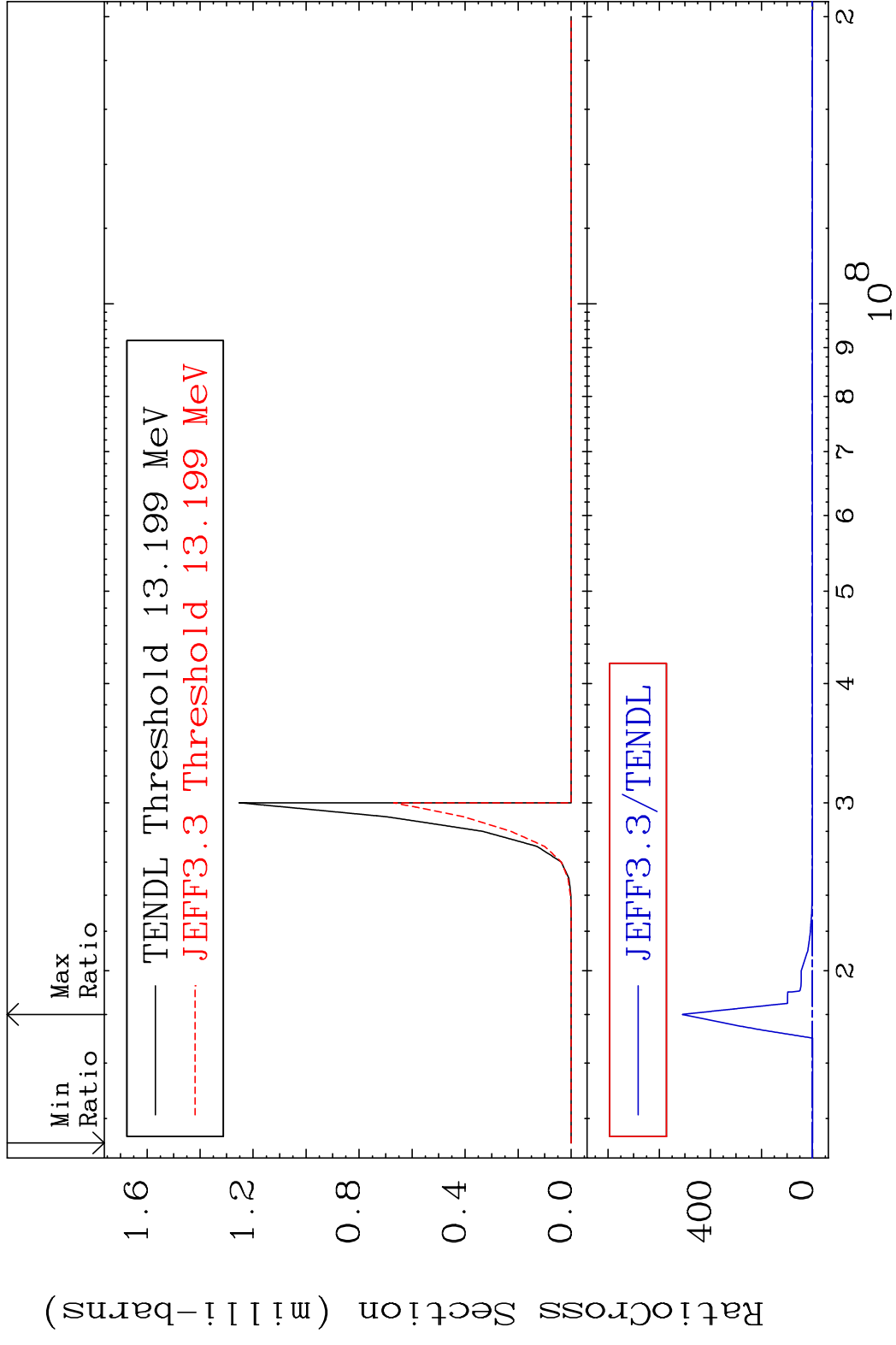
MAT 5137 (n,α):49-In-122g 51-Sb-125  
 Radionuclide Production Cross Section 180.0 dth 313.8 %

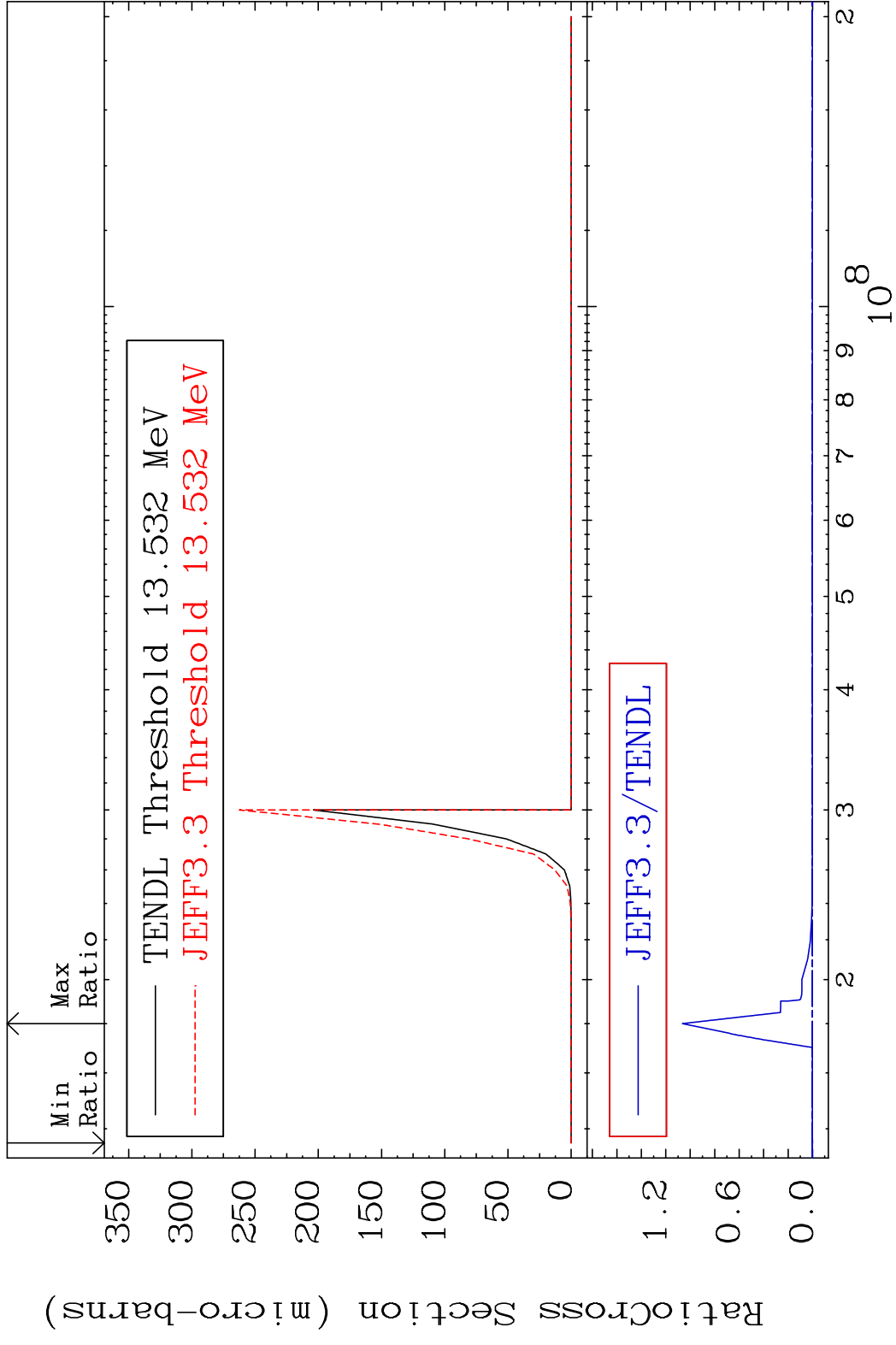


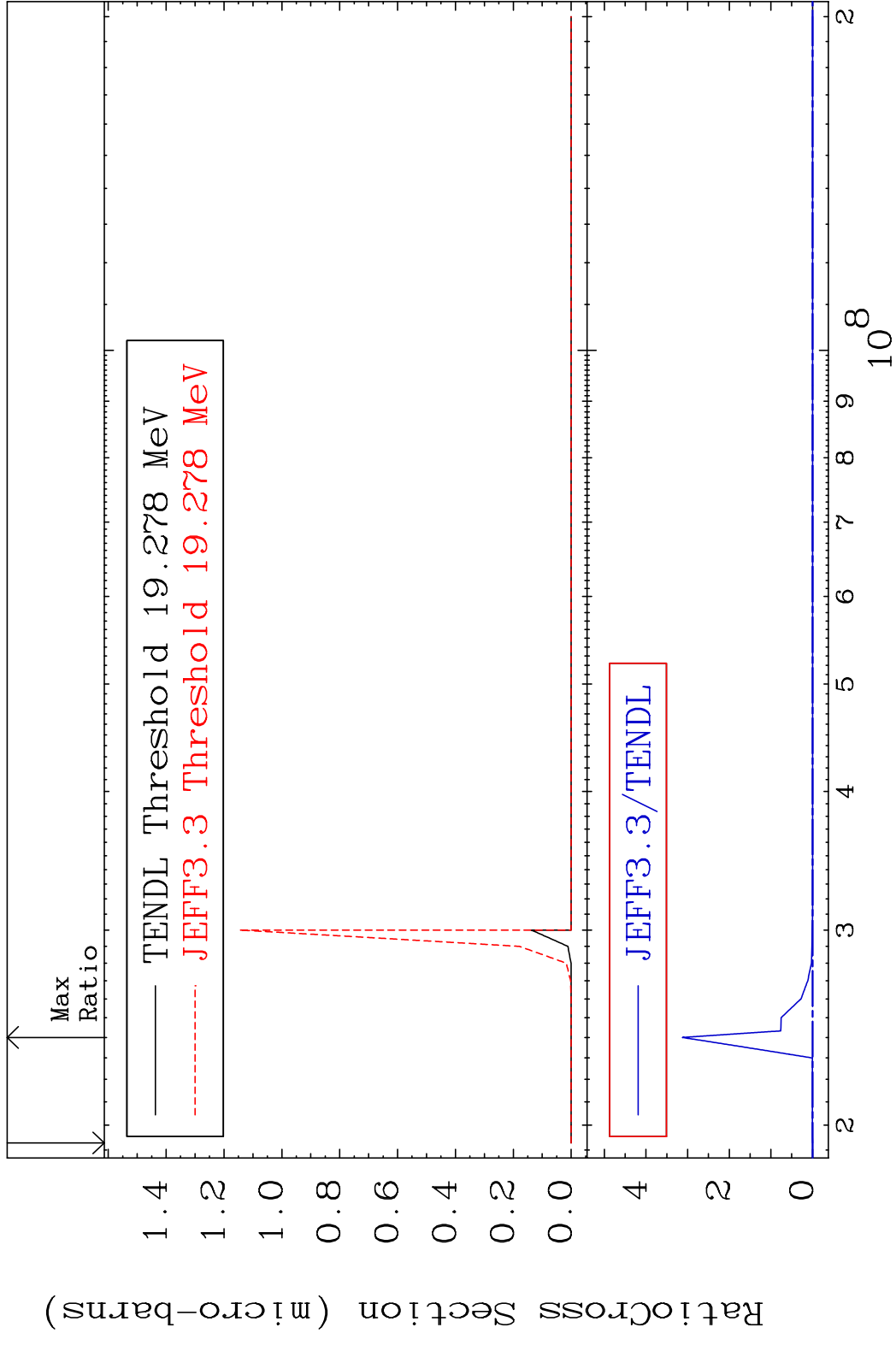


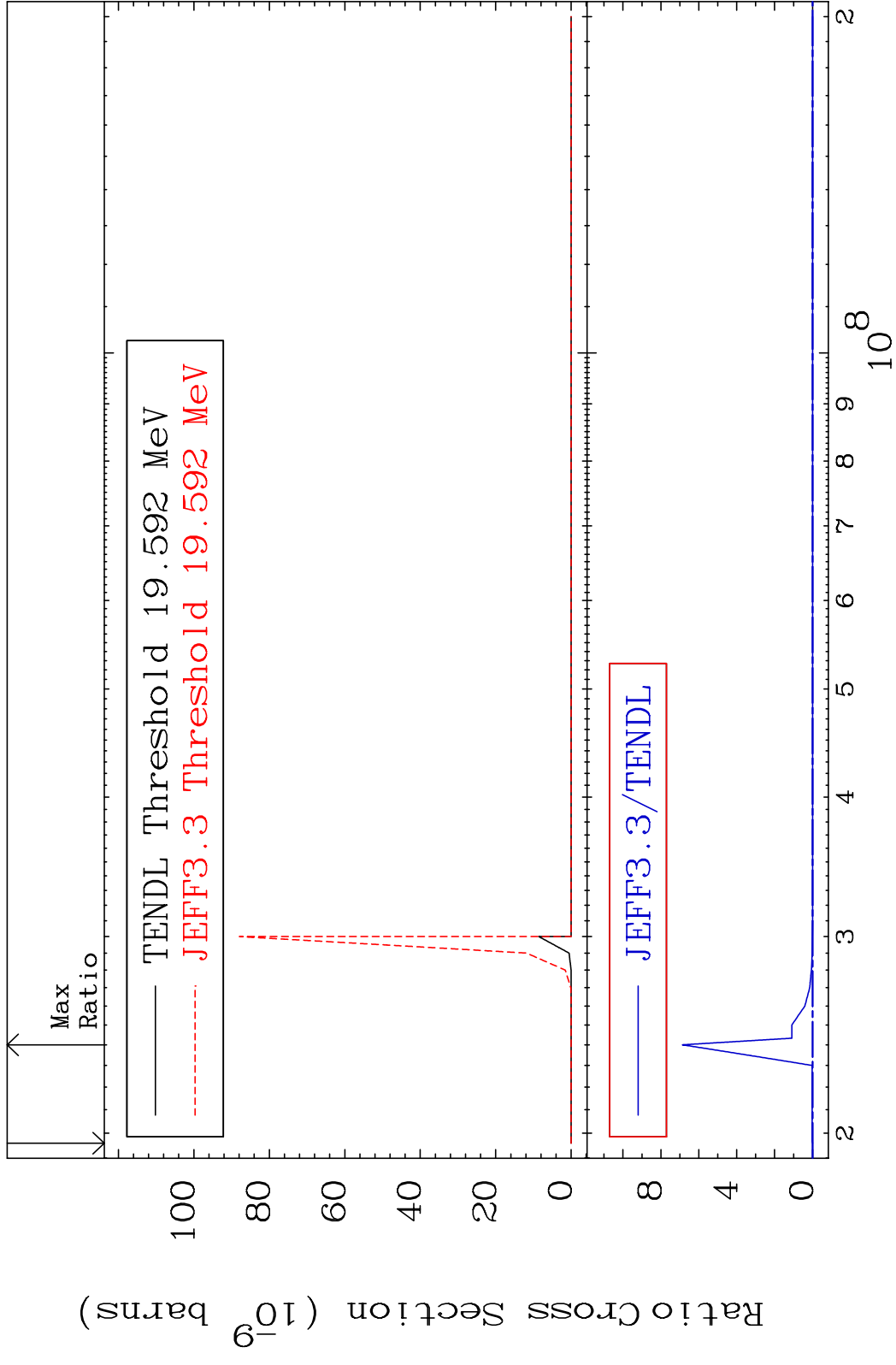


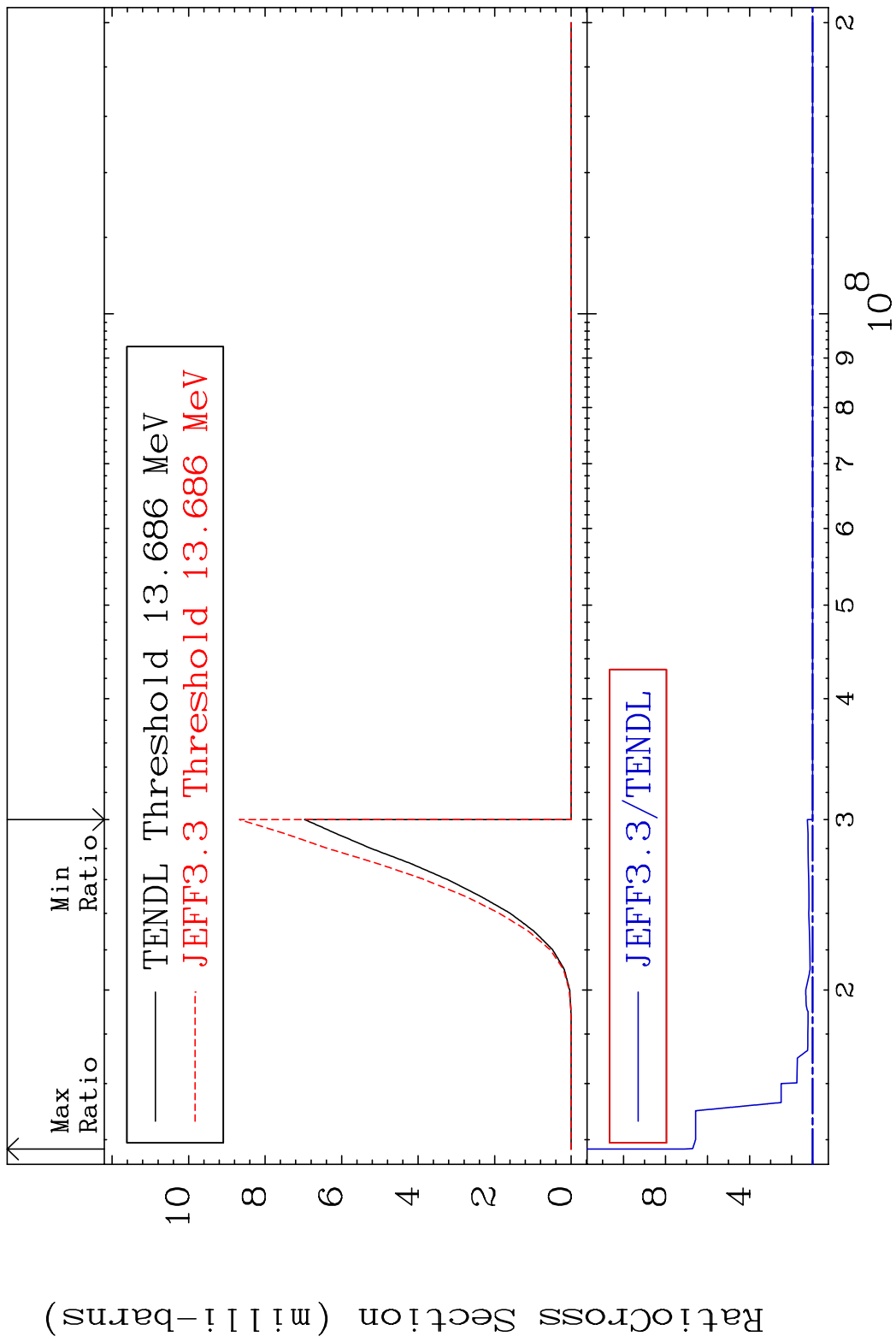


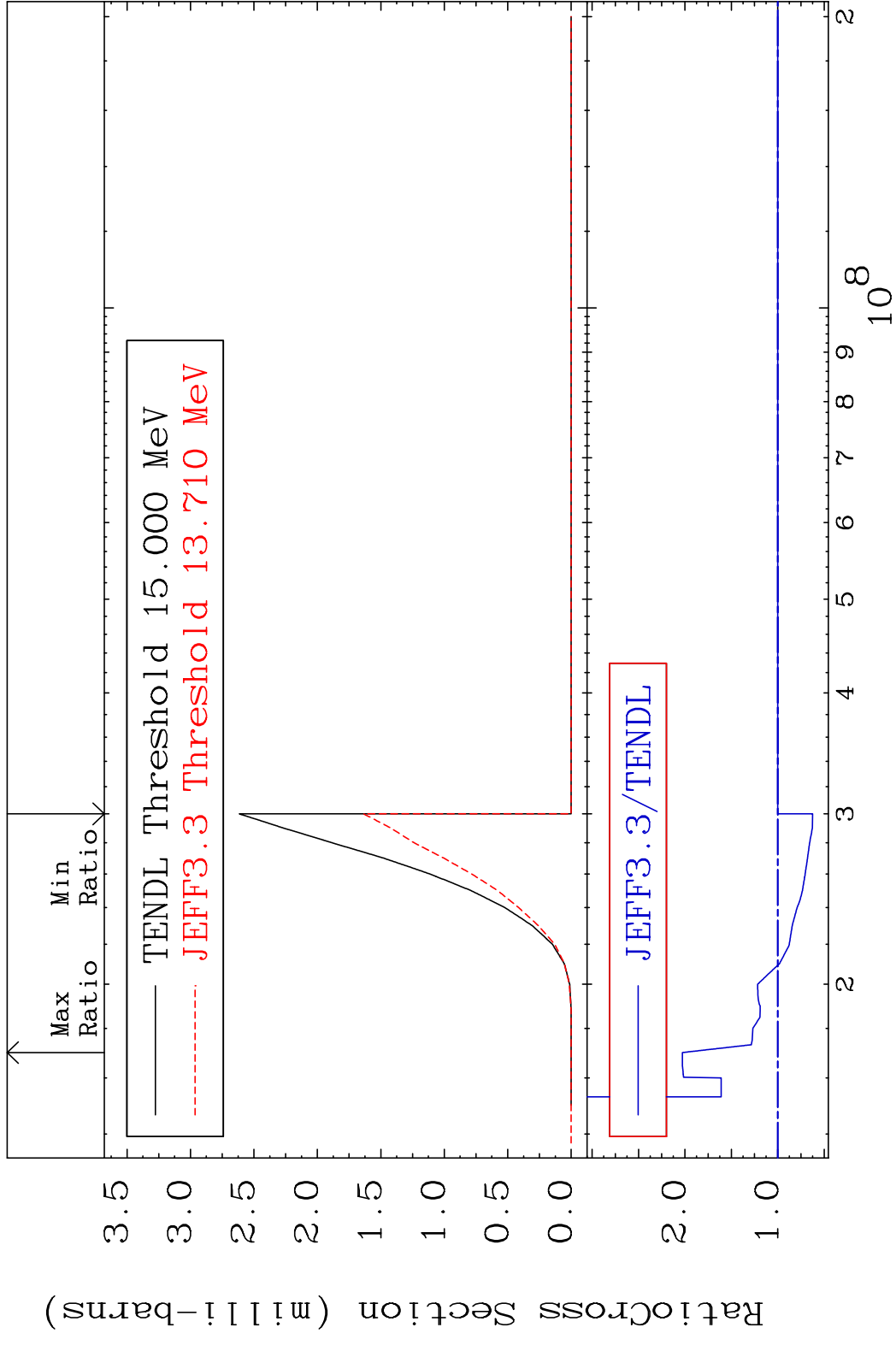


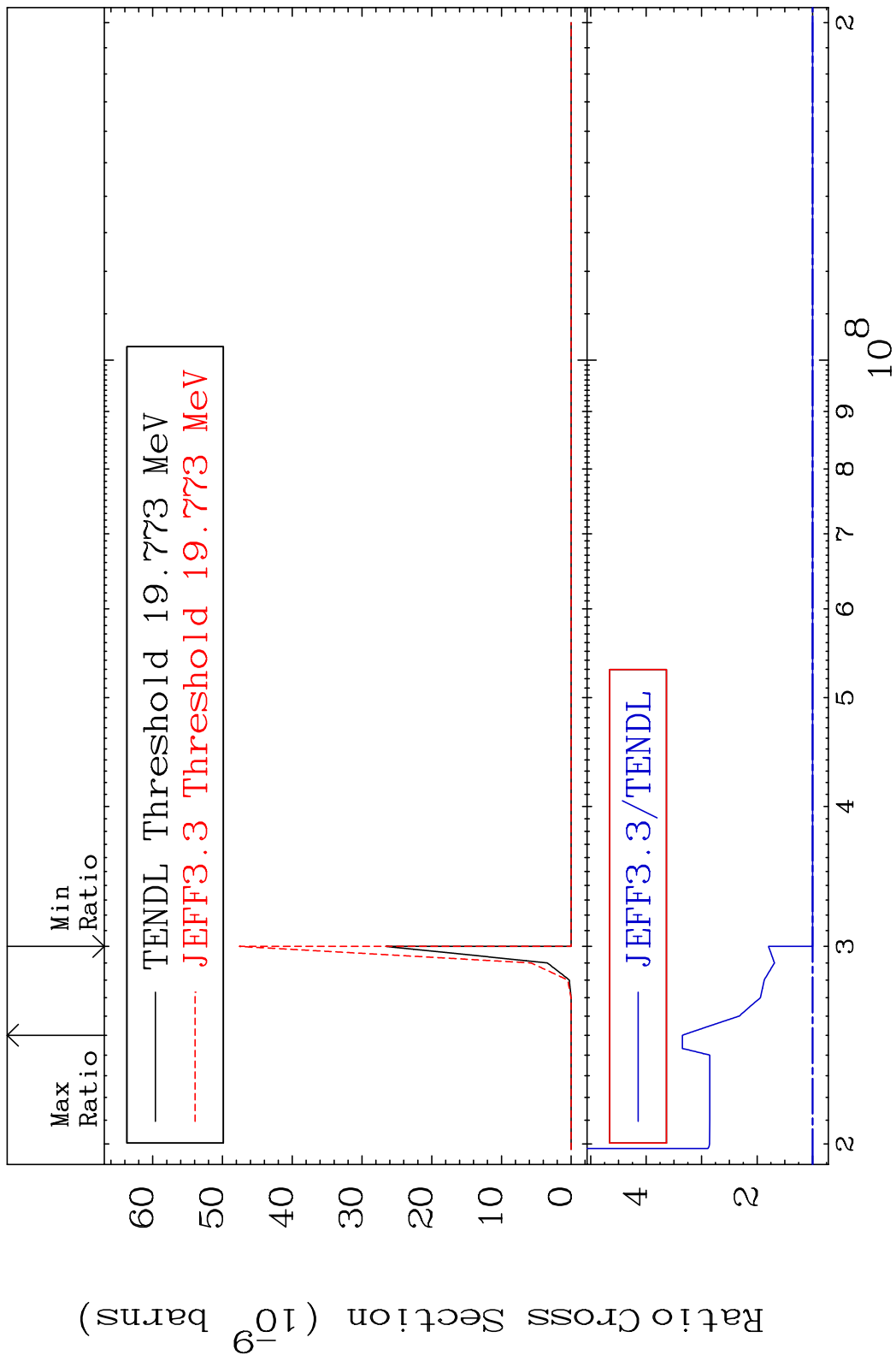




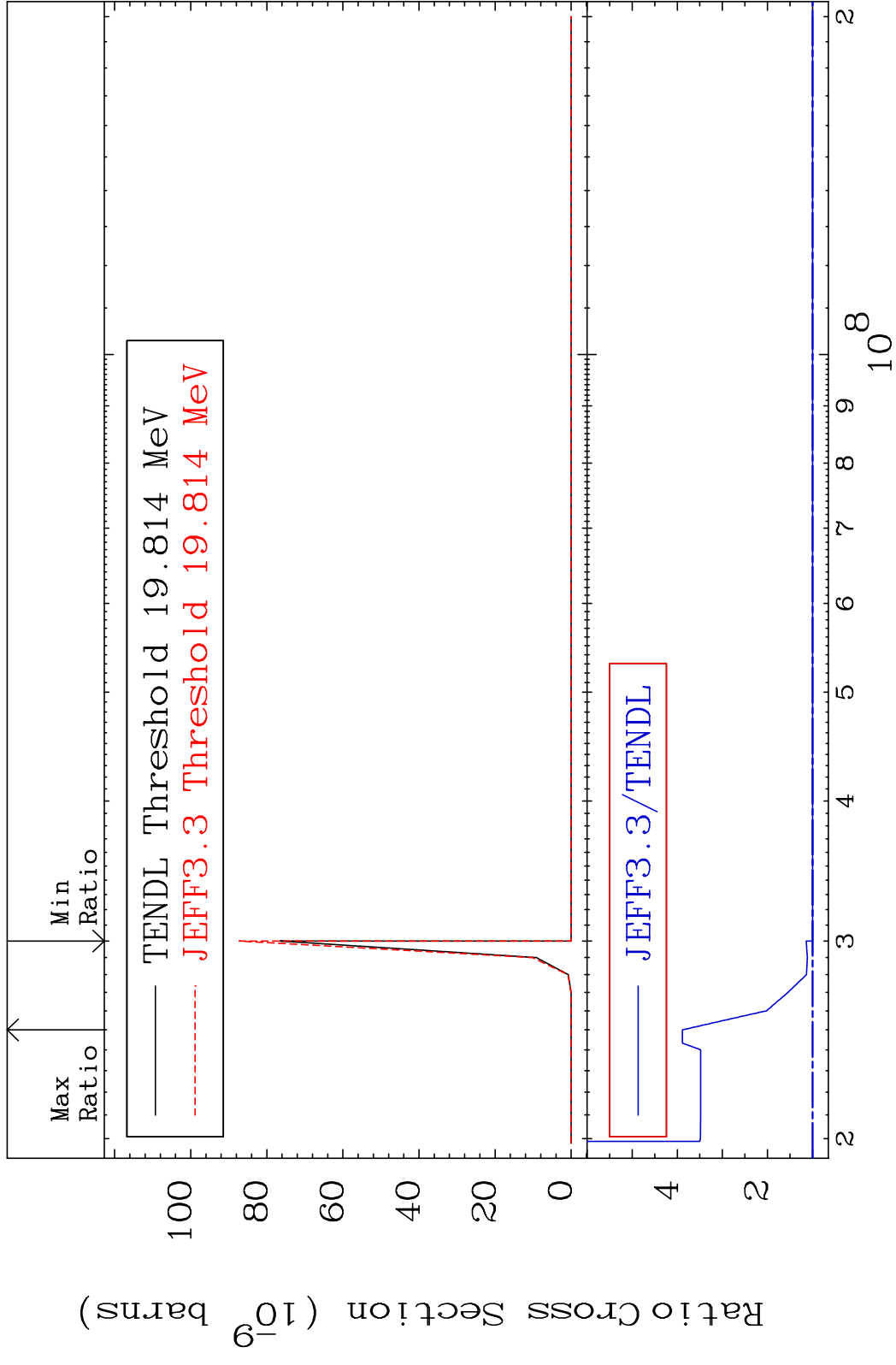




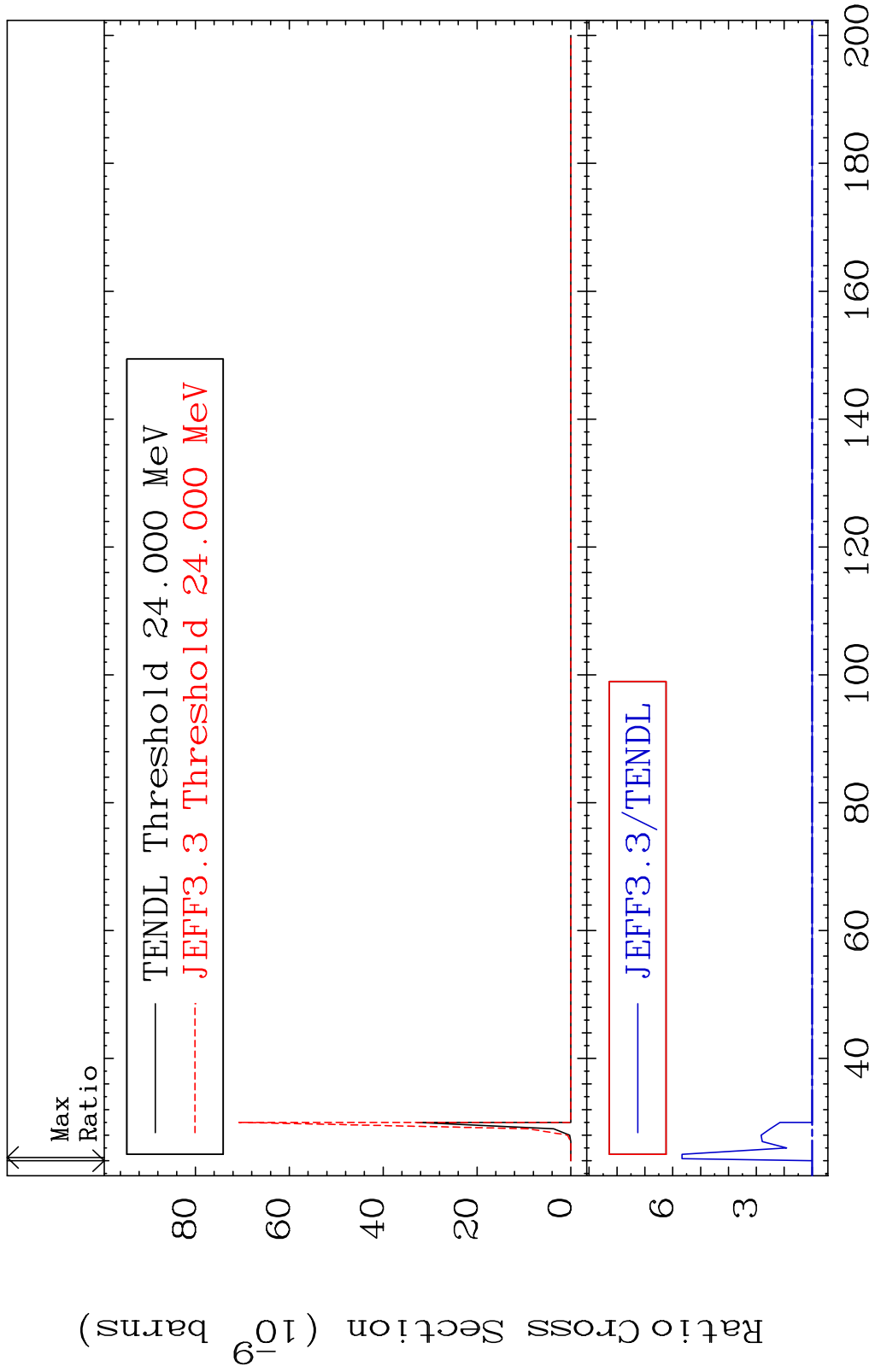




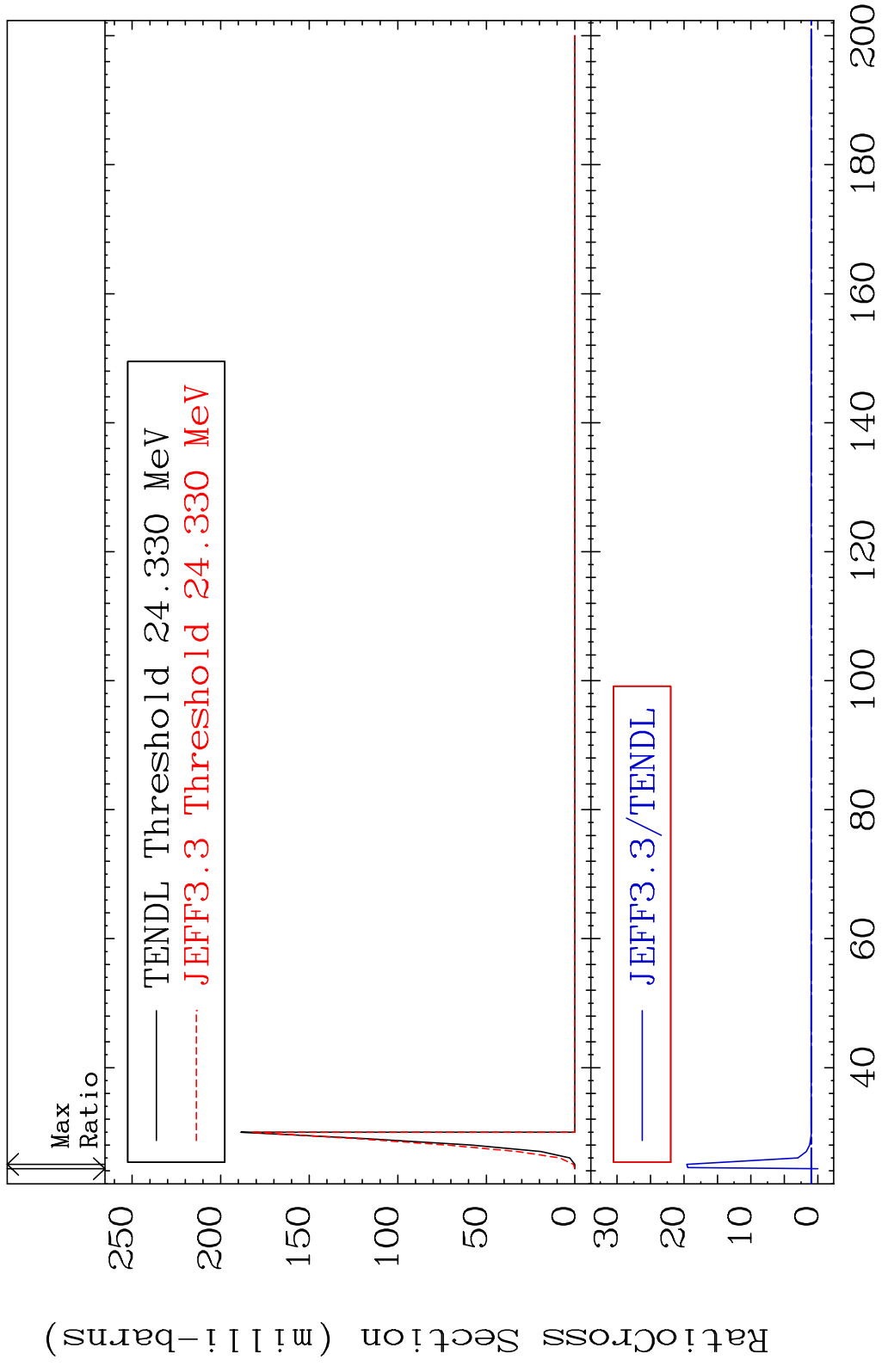




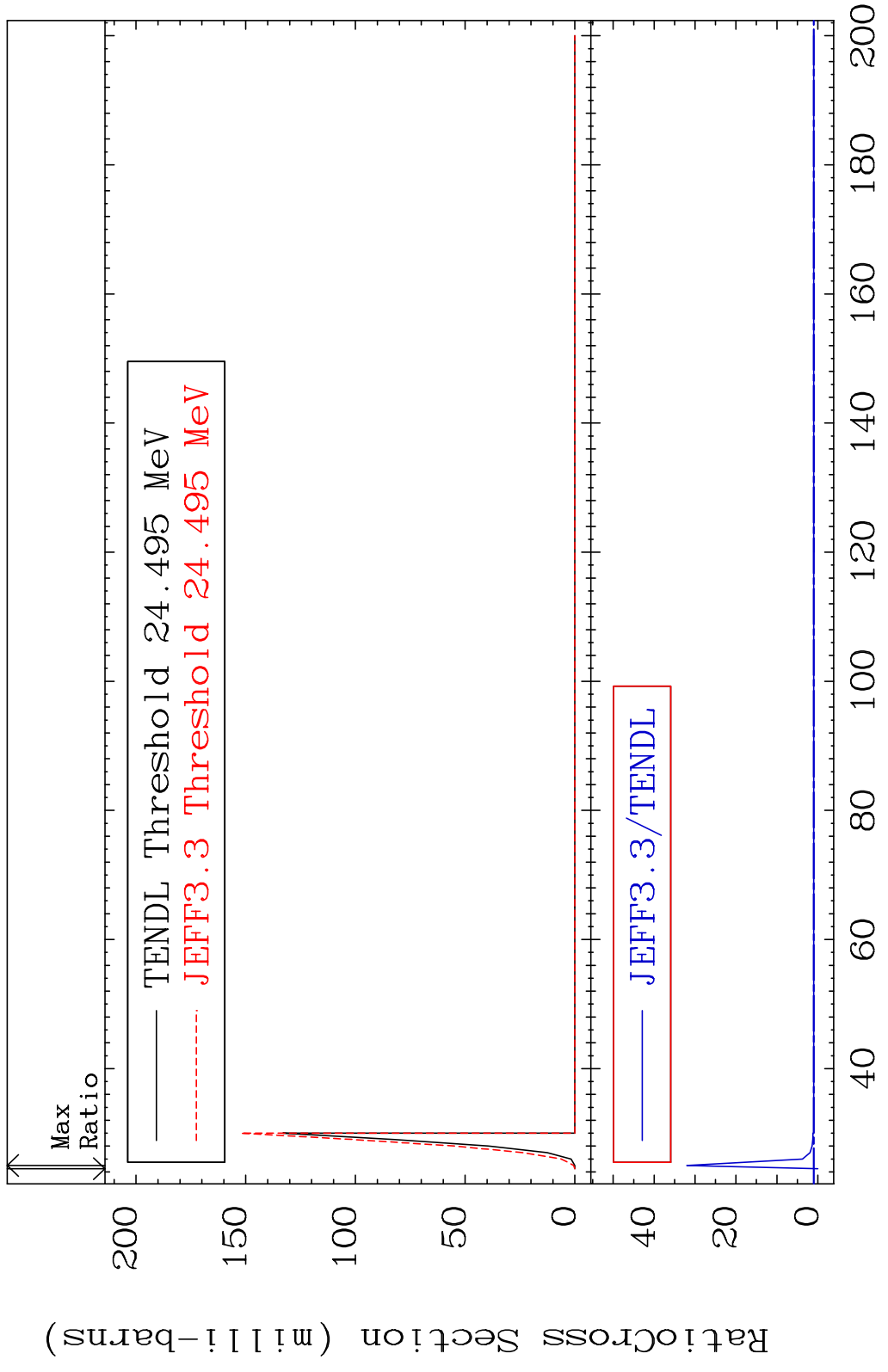
MAT 5137 (n, n') He-3:49-In-122m5 51-Sb-125  
 Radionuclide Production Cross Section 466.9 %



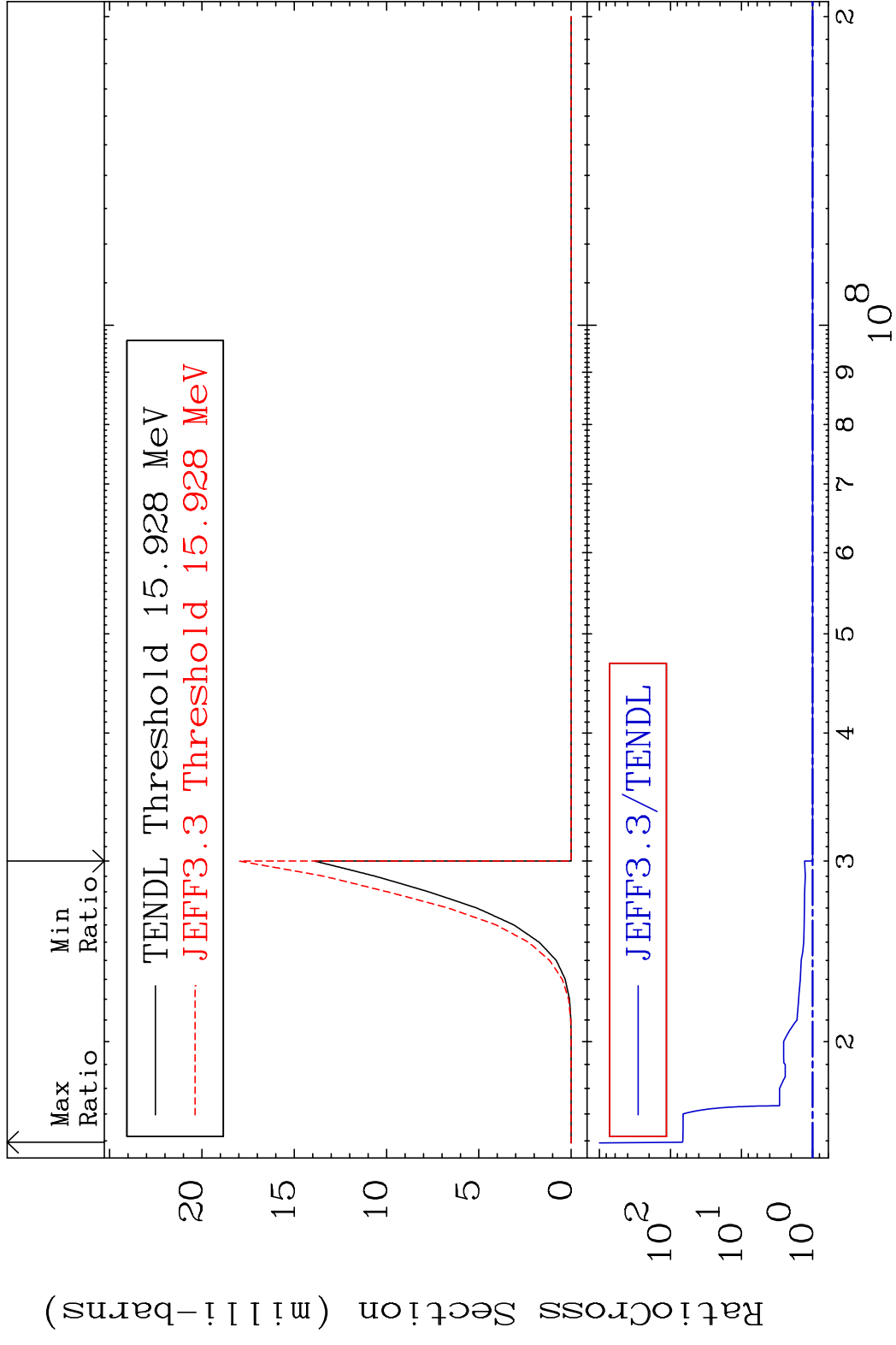
MAT 5137 (n,4n):51-Sb-122g 51-Sb-125  
 Radionuclide Production Cross Section 1859.0 %

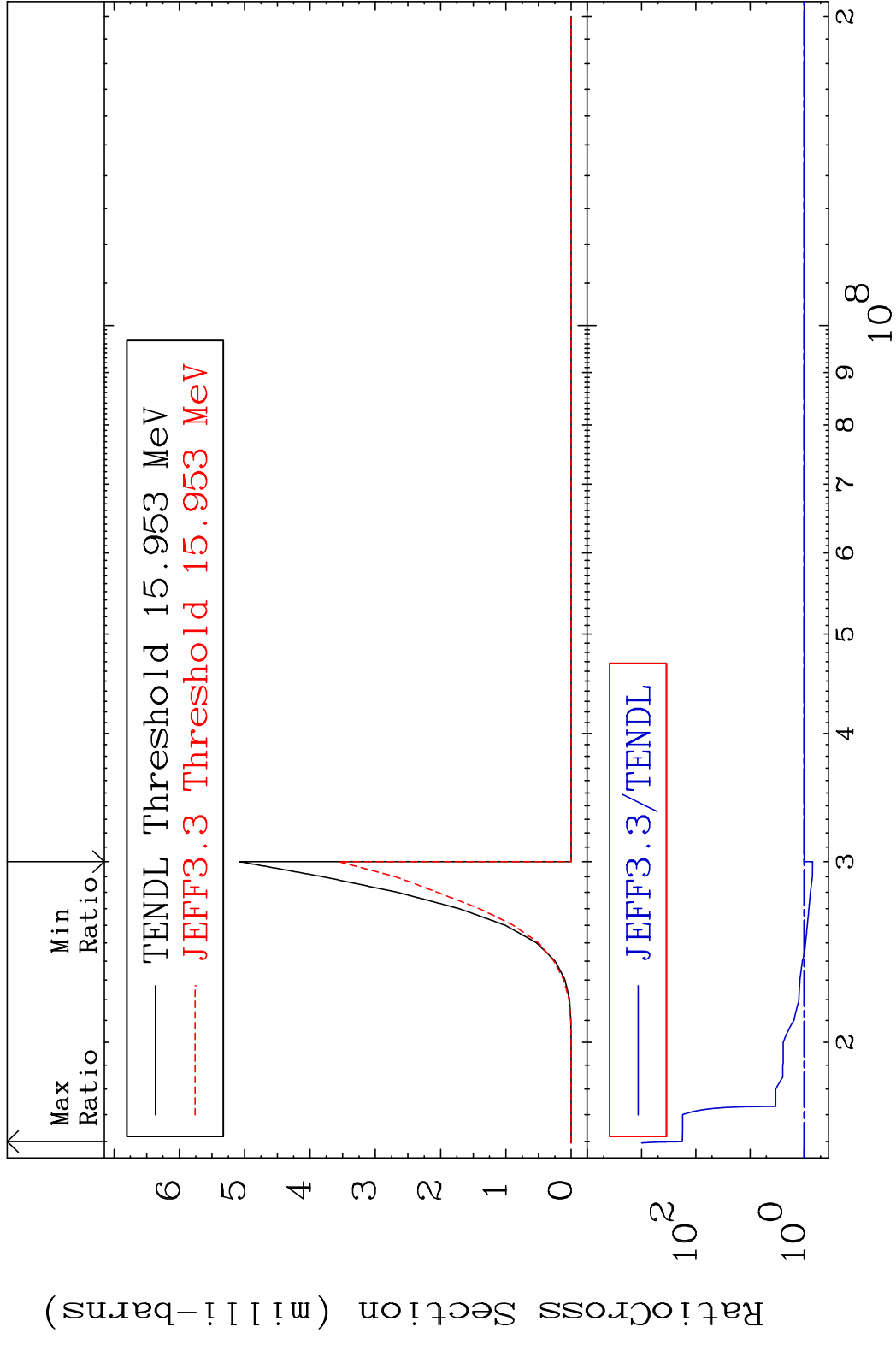


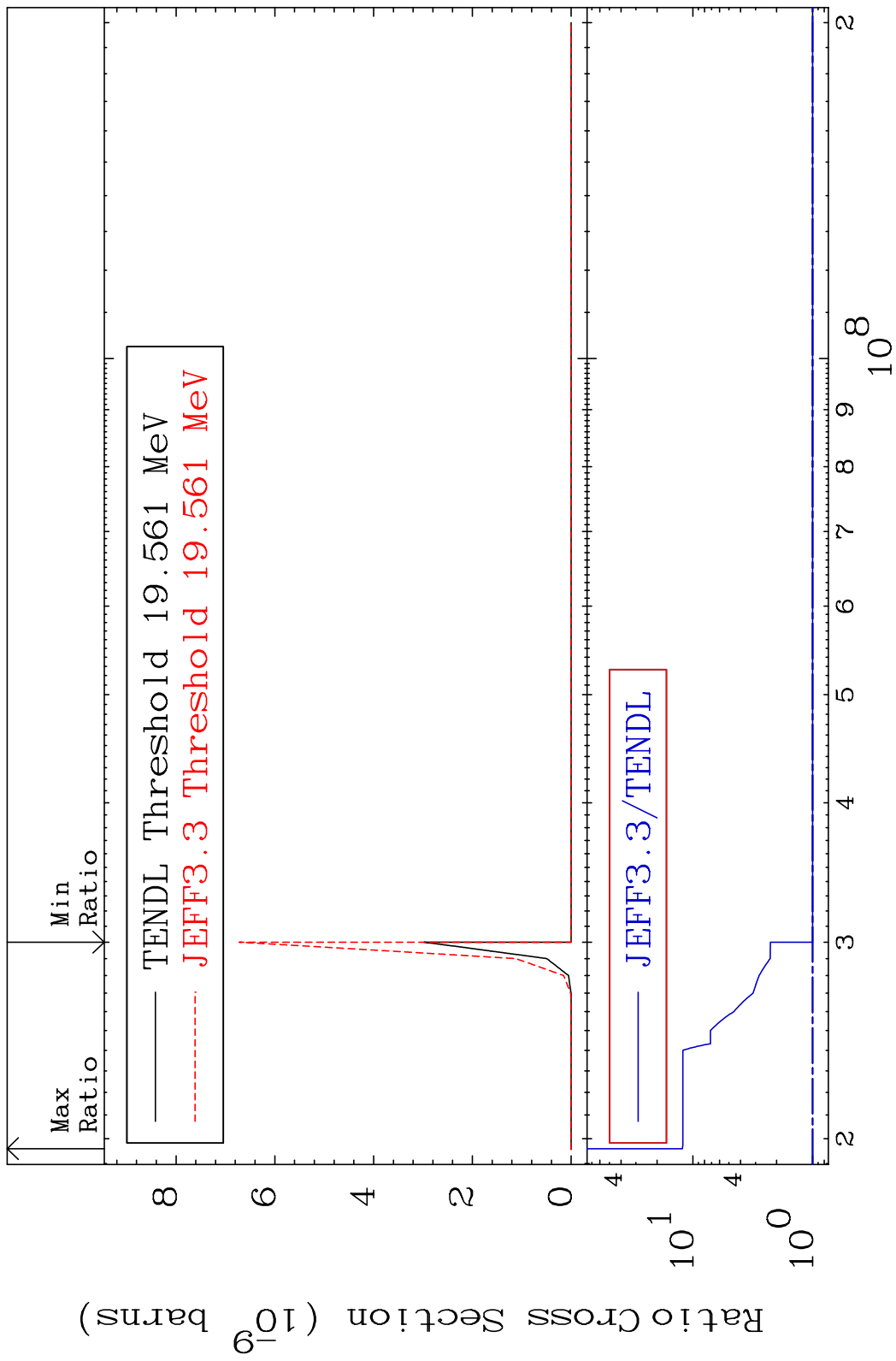
MAT 5137 (n, 4n):51-Sb-122m5 51-Sb-125  
 Radionuclide Production Cross Section Ratio 3103. %

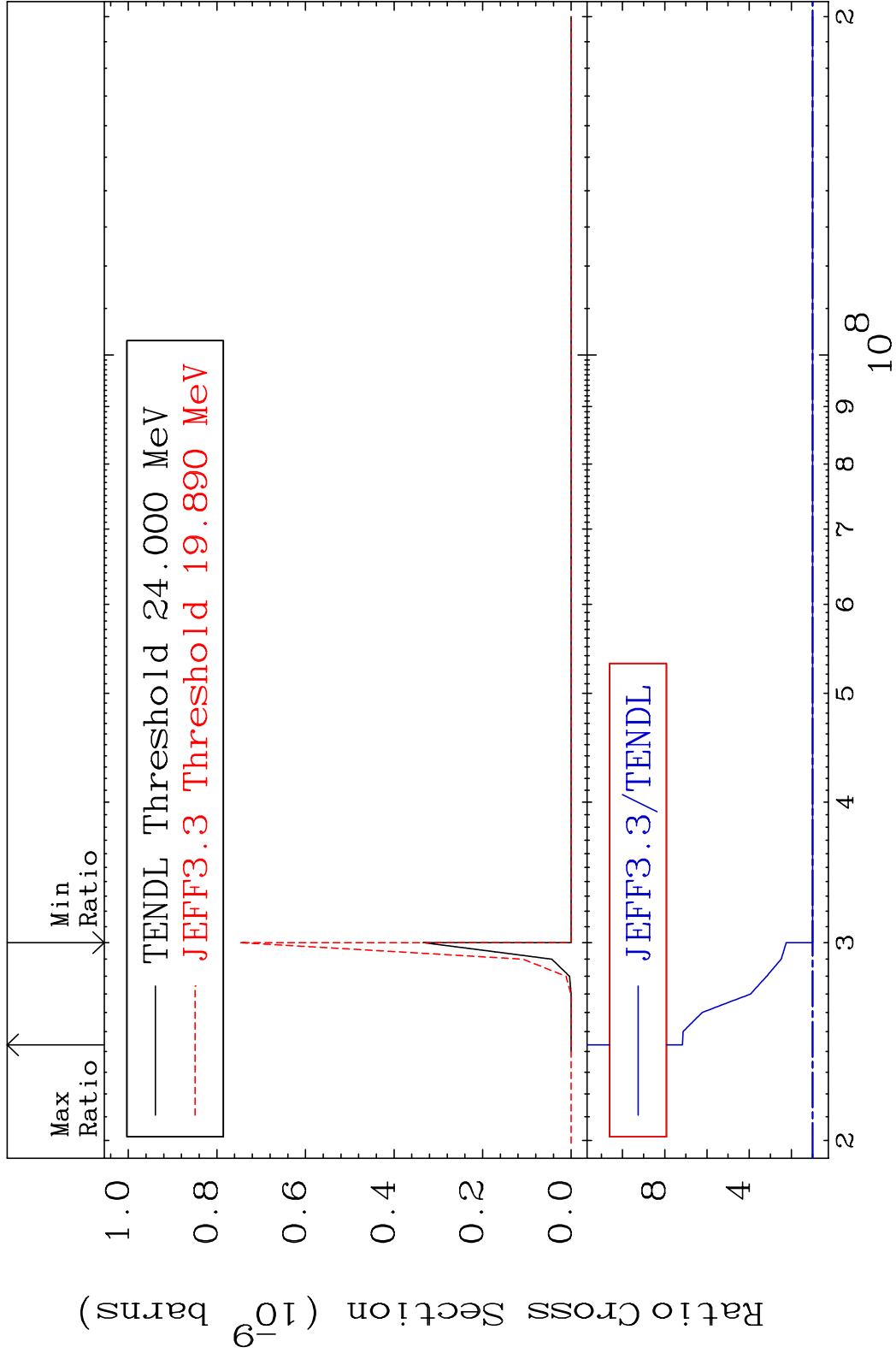


75 Incident Energy (MeV) 51-Sb-125

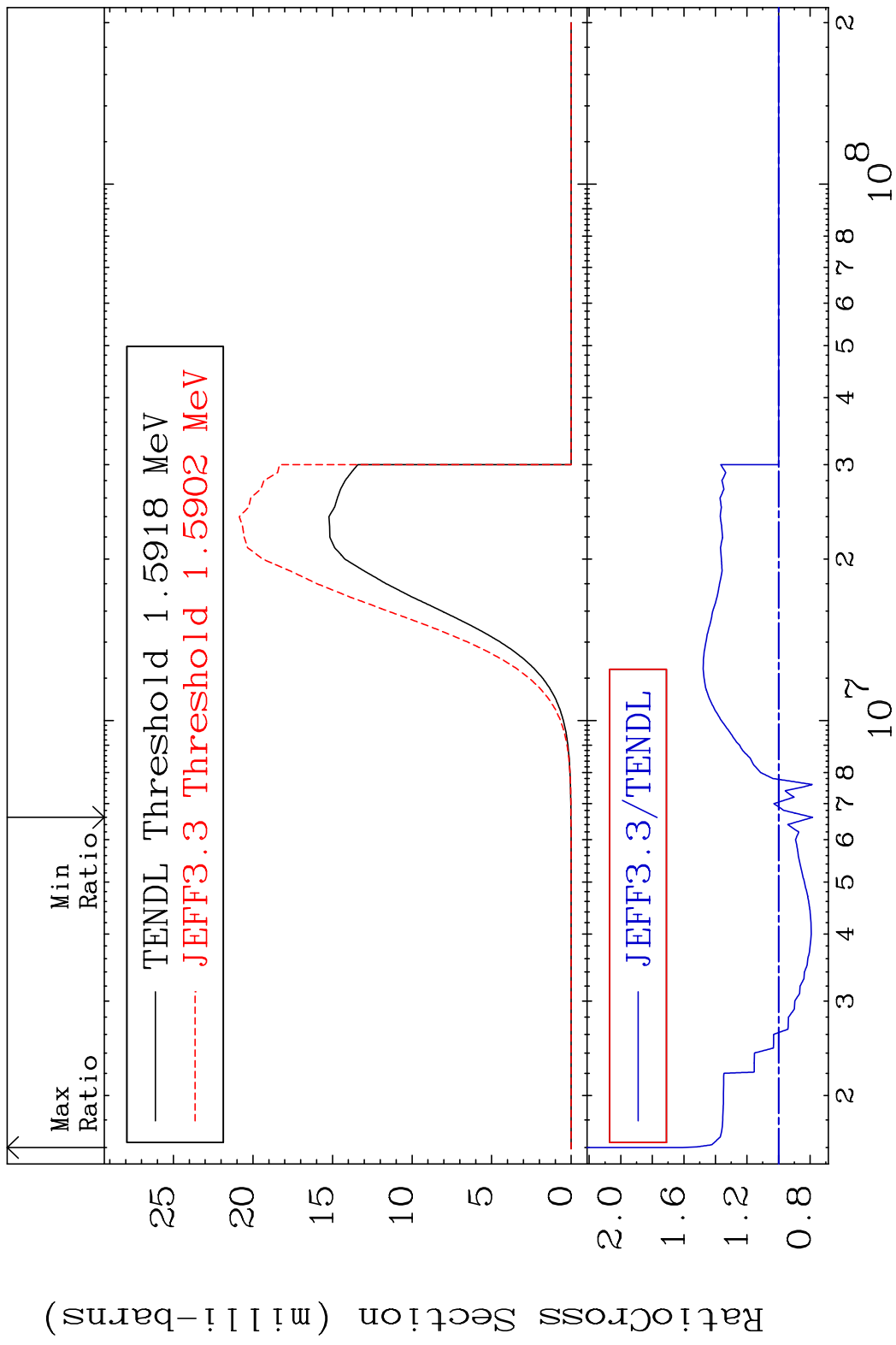




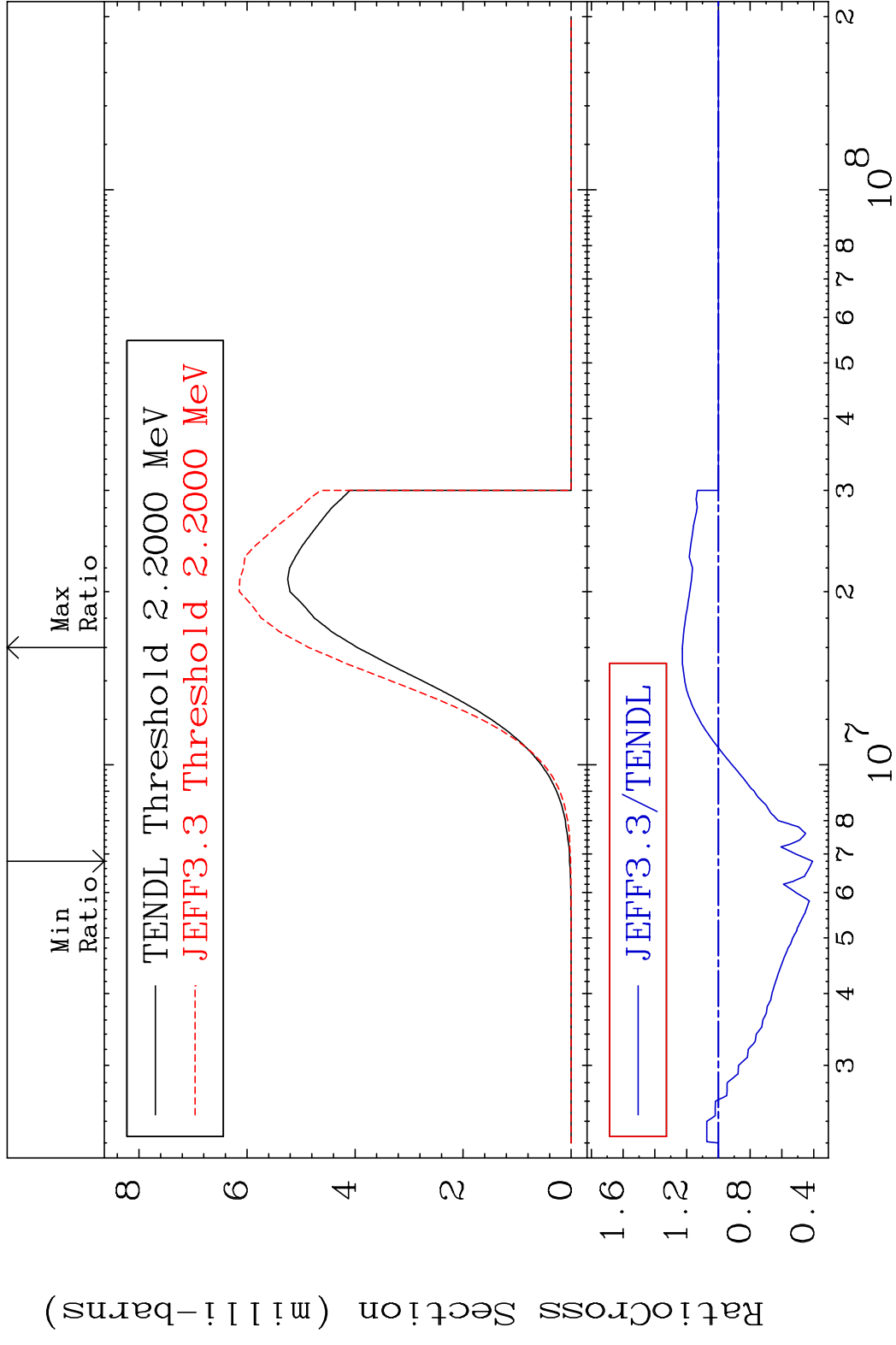


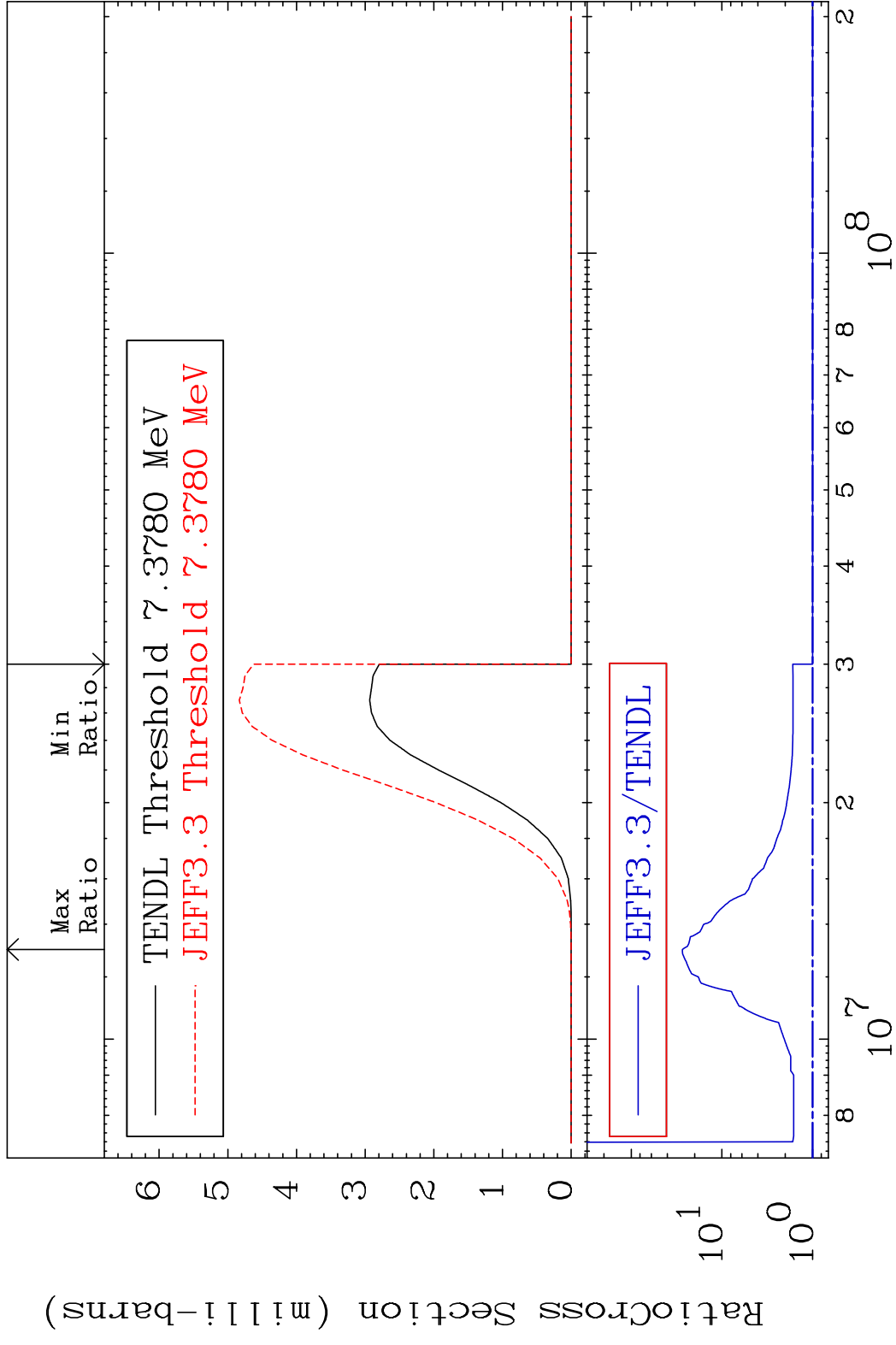


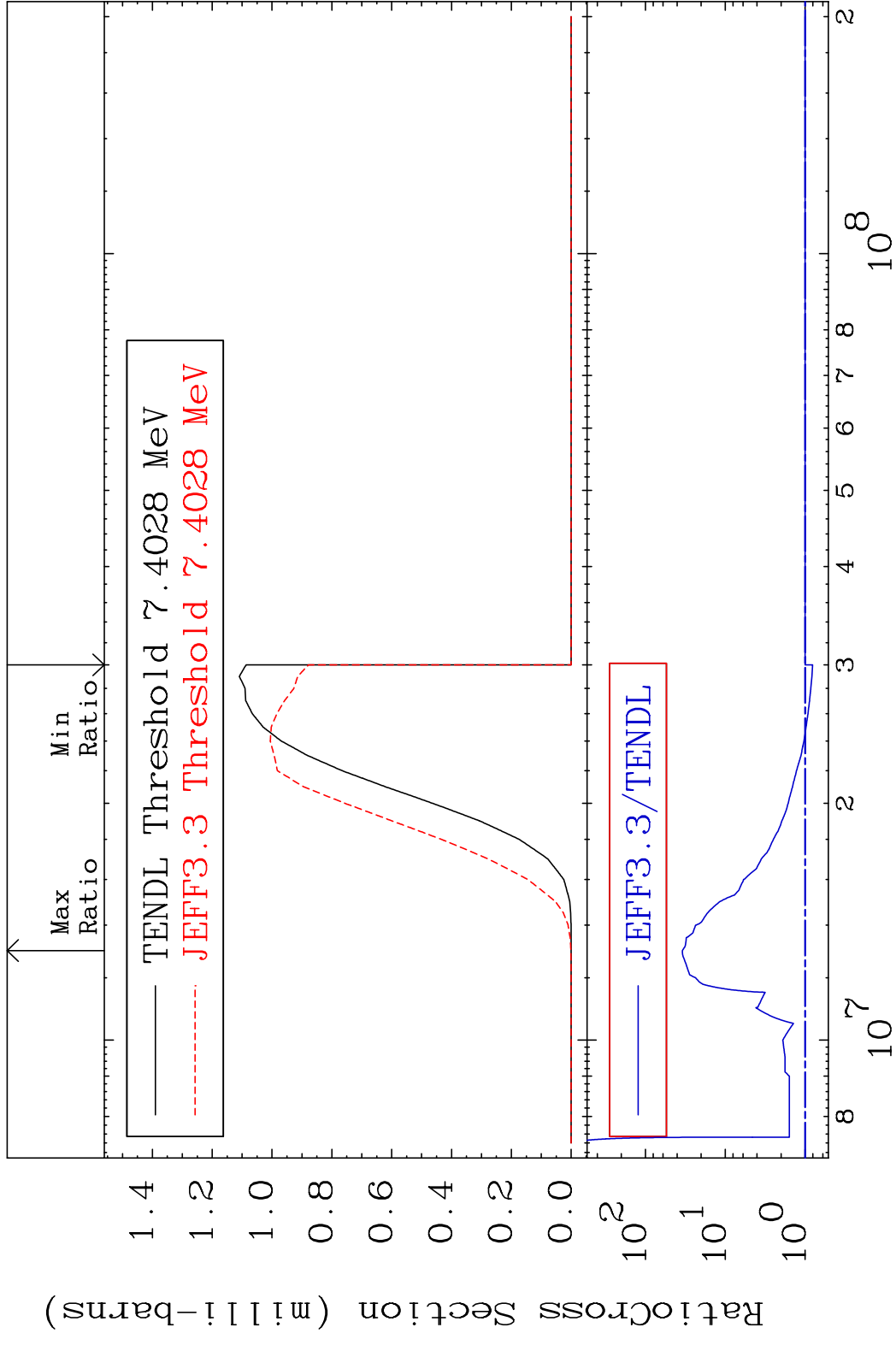


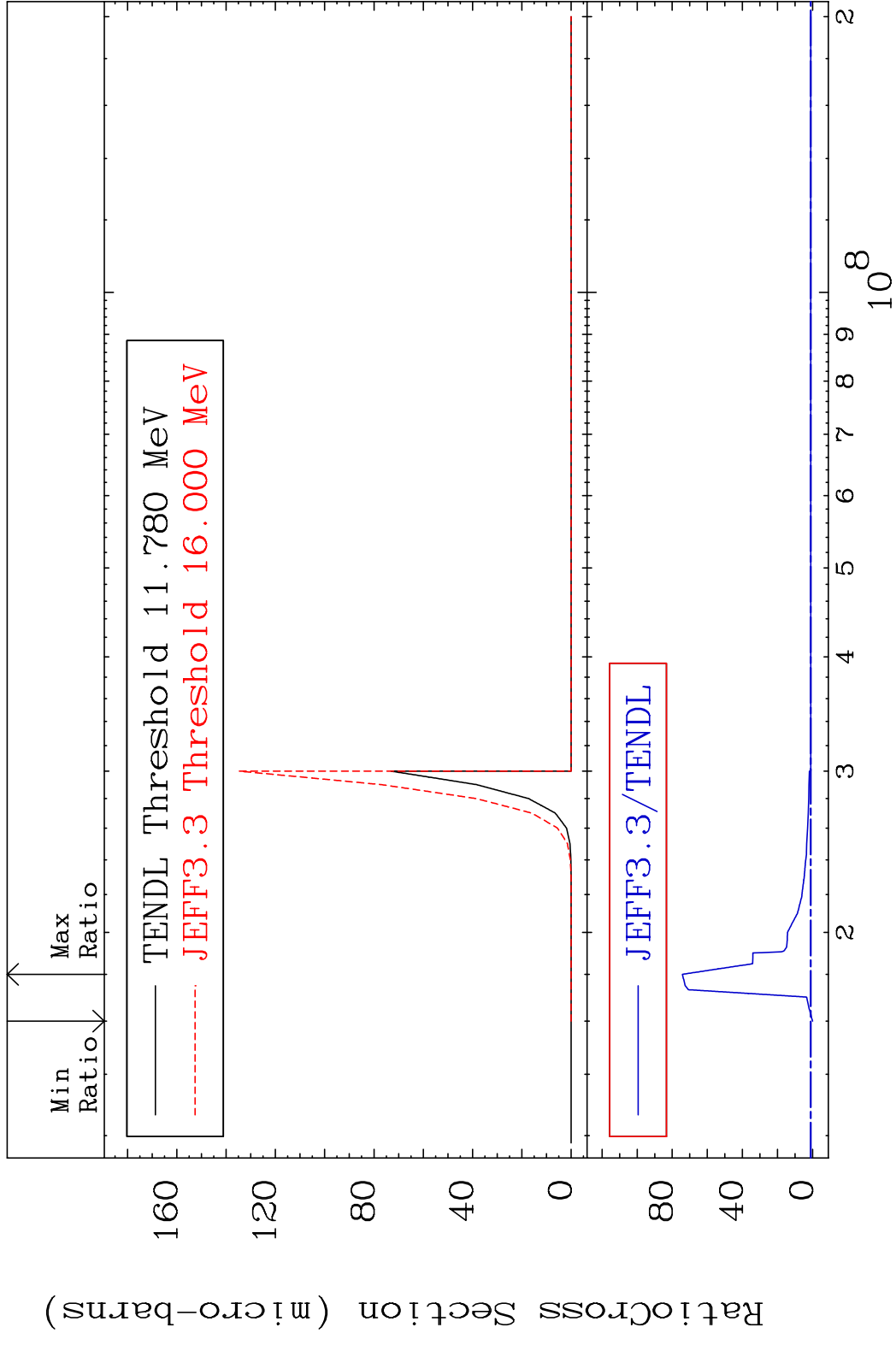


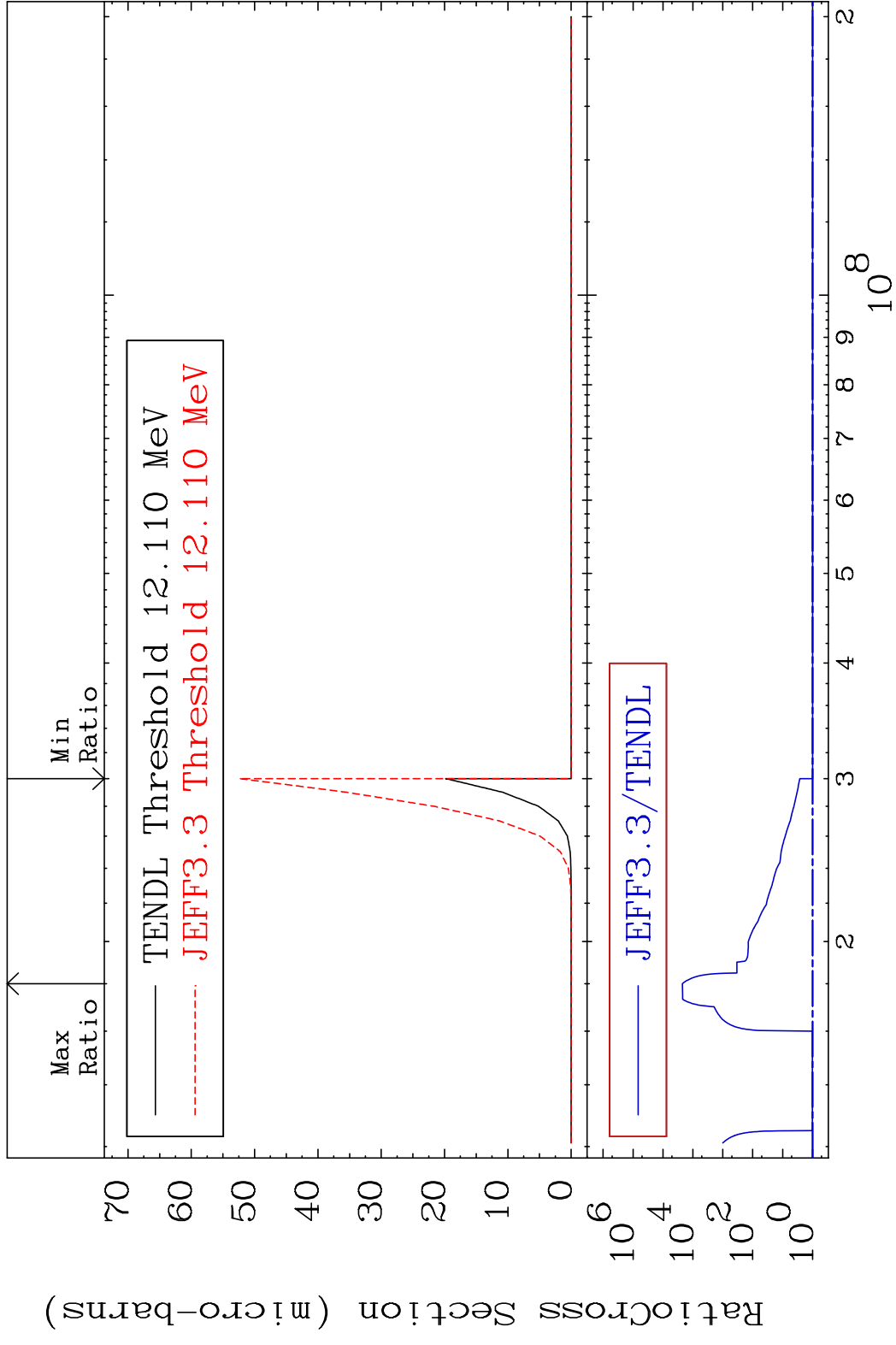
MAT 5137 (n, p): 50-Sn-125m1 51-Sb-125  
 Radionuclide Production Cross Section 58.29 dth 22.68 %

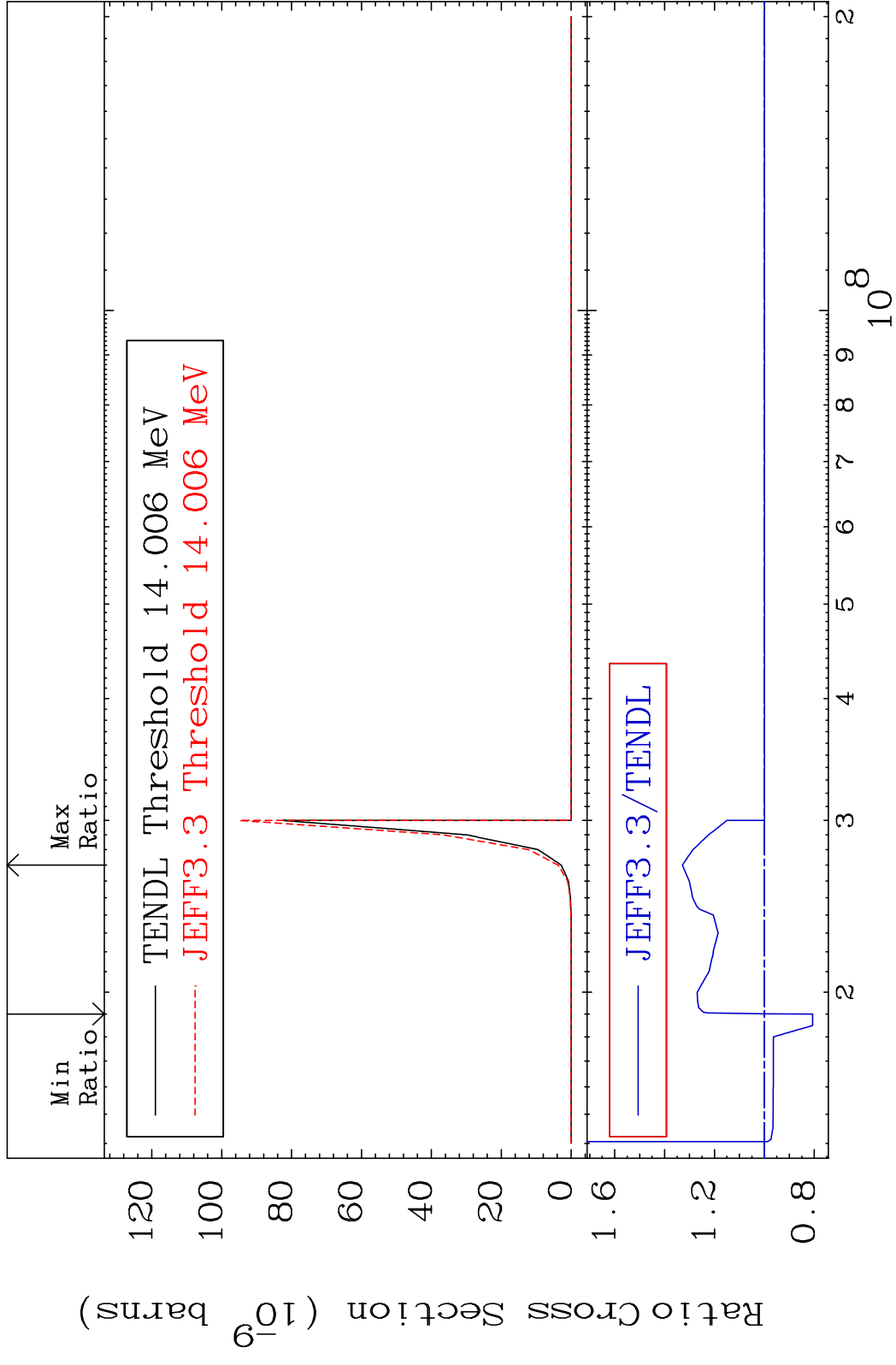


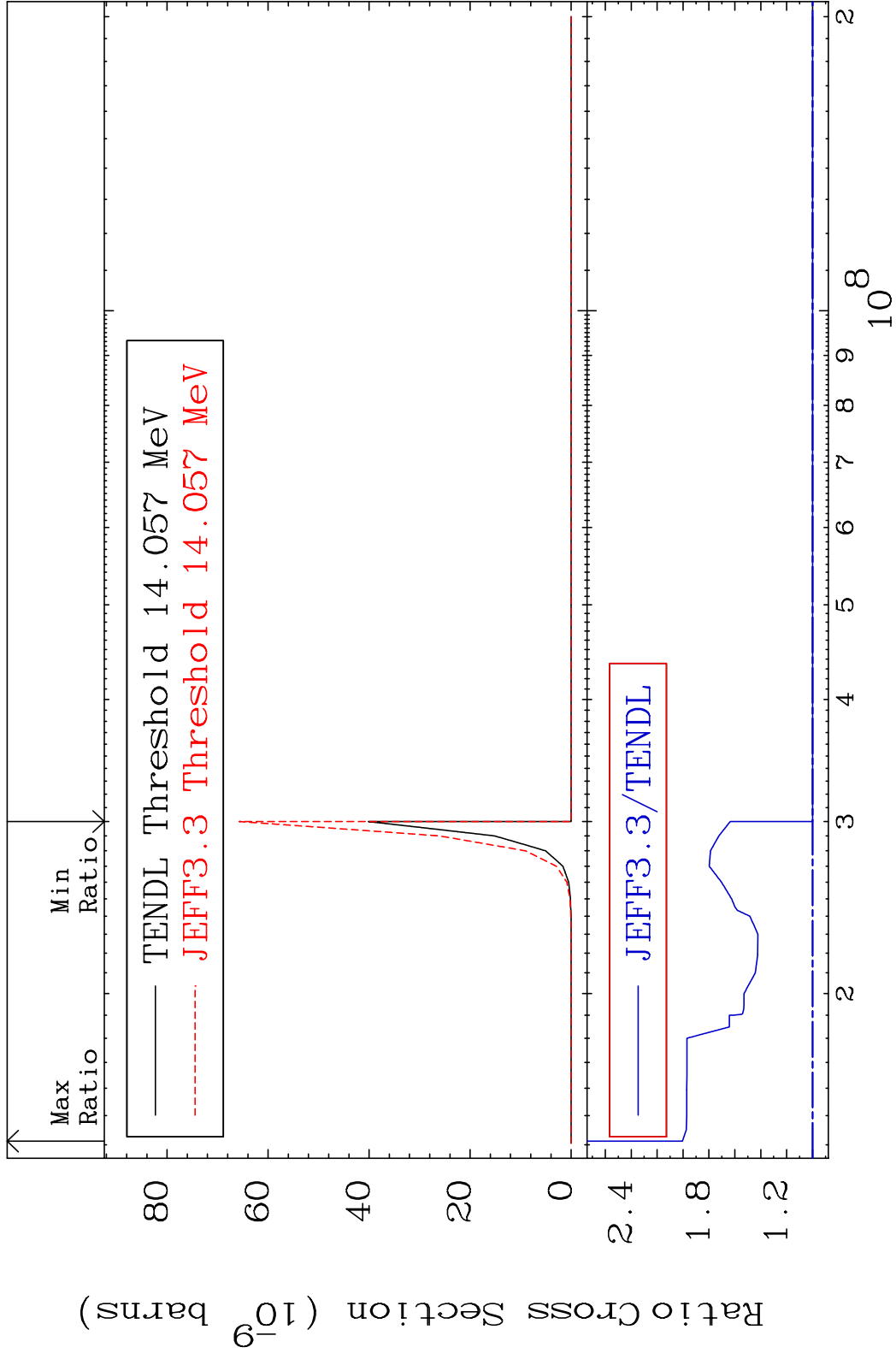




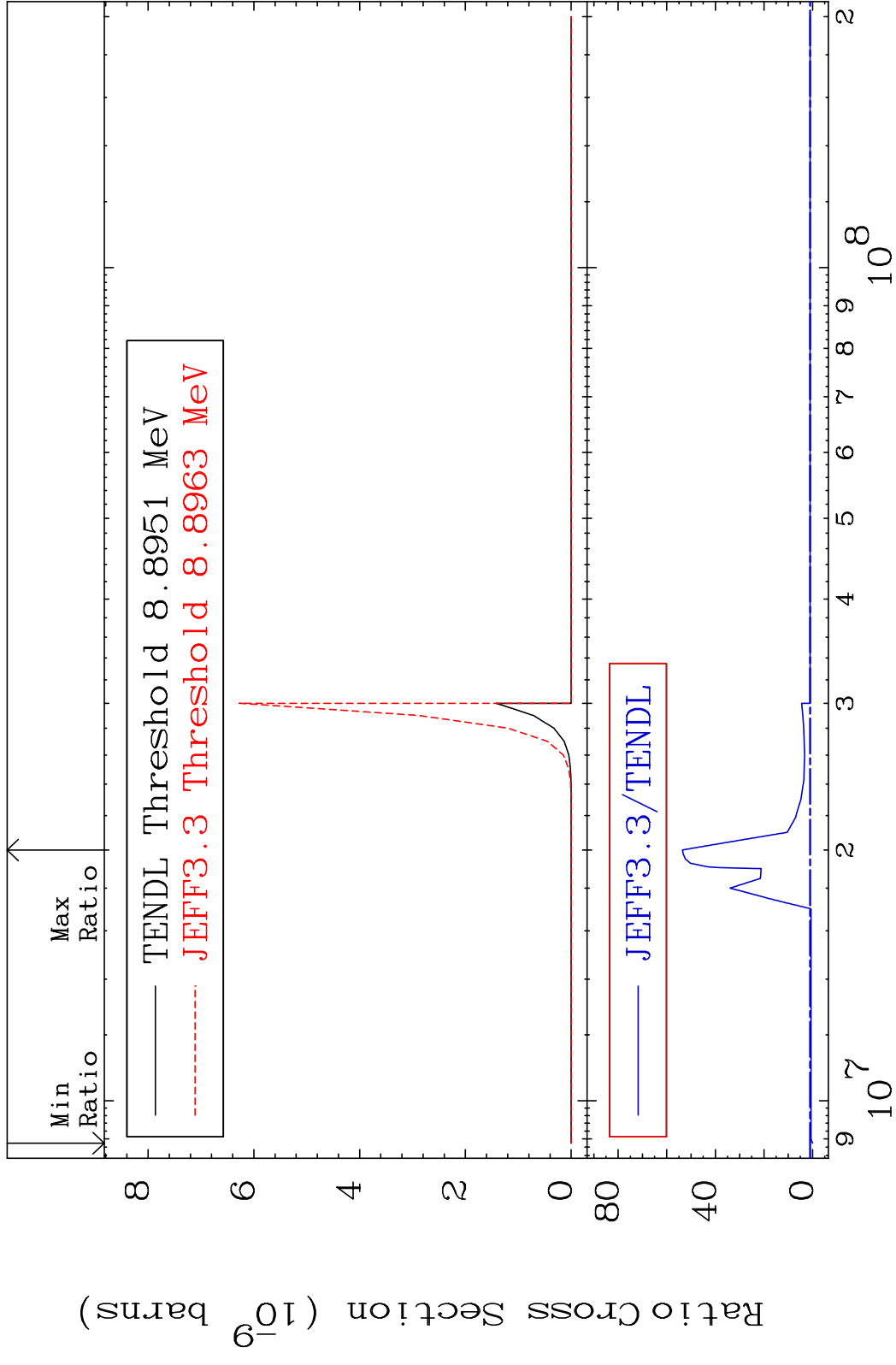












MAT 5137 (n, p)  $\alpha$ :48-Cd-121m2 51-Sb-125  
 Radionuclide Production Cross Section Ratio 3636. %

