

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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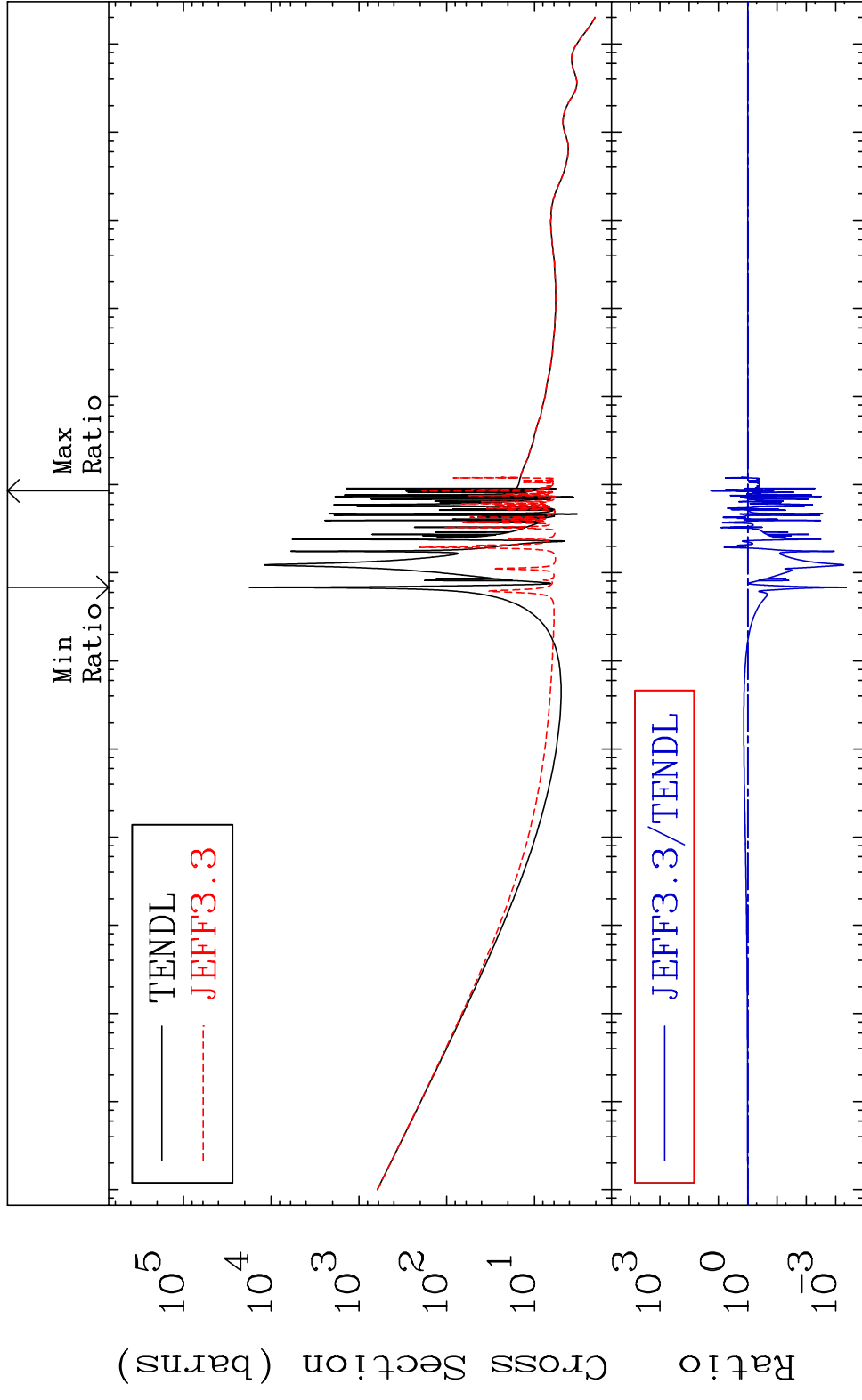
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5137

Total Cross Section -99.96 To 1733. %  
51-Sb-125



1

Incident Energy (eV)

51-Sb-125

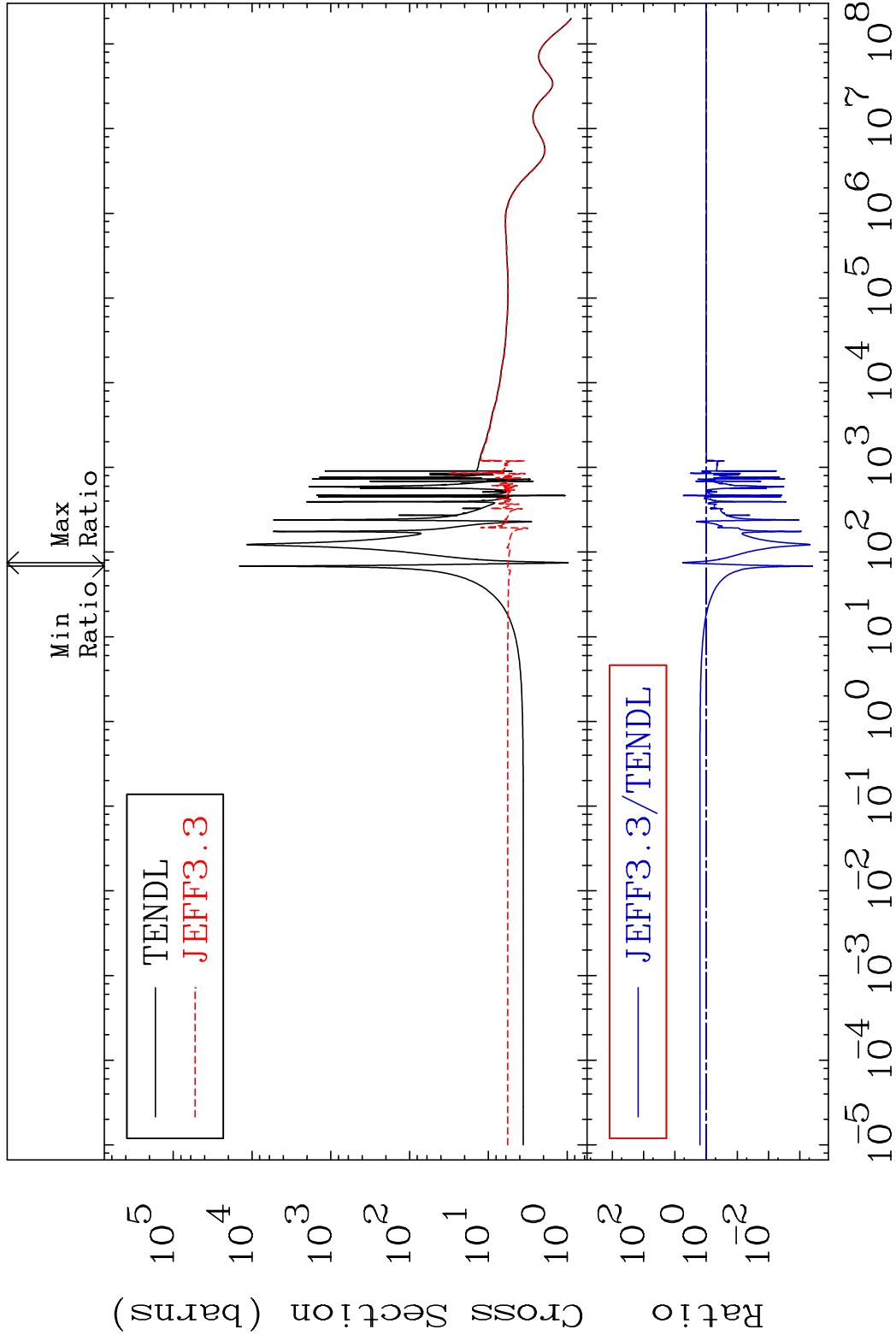
MAT 5137

Elastic

51-Sb-125

Cross Section

-99.96 To 473.4 %



2

Incident Energy (eV)

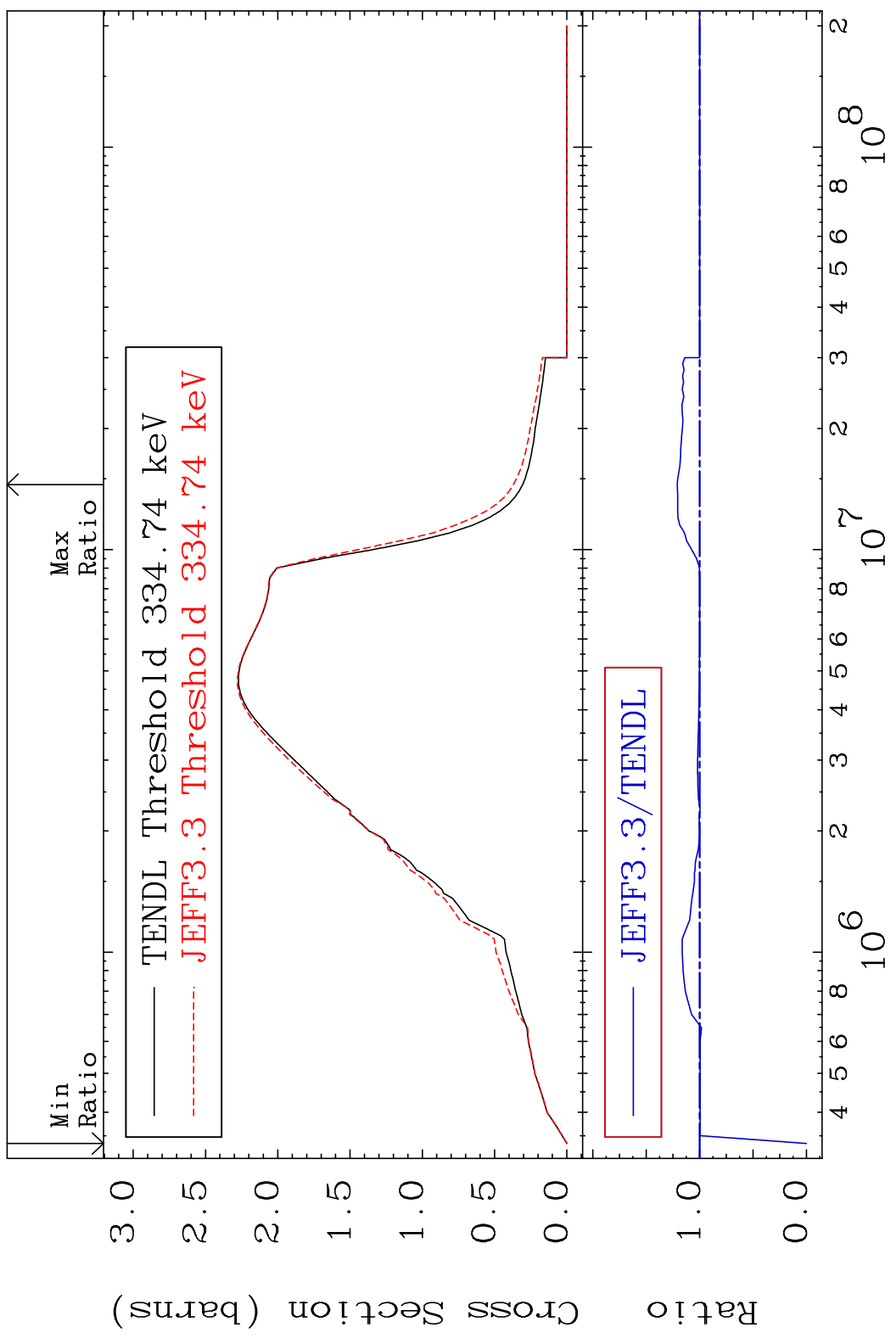
51-Sb-125

MAT 5137

Inelastic

51-Sb-125

Cross Section -100.0 To 21.04 %



3

Incident Energy (eV)

51-Sb-125

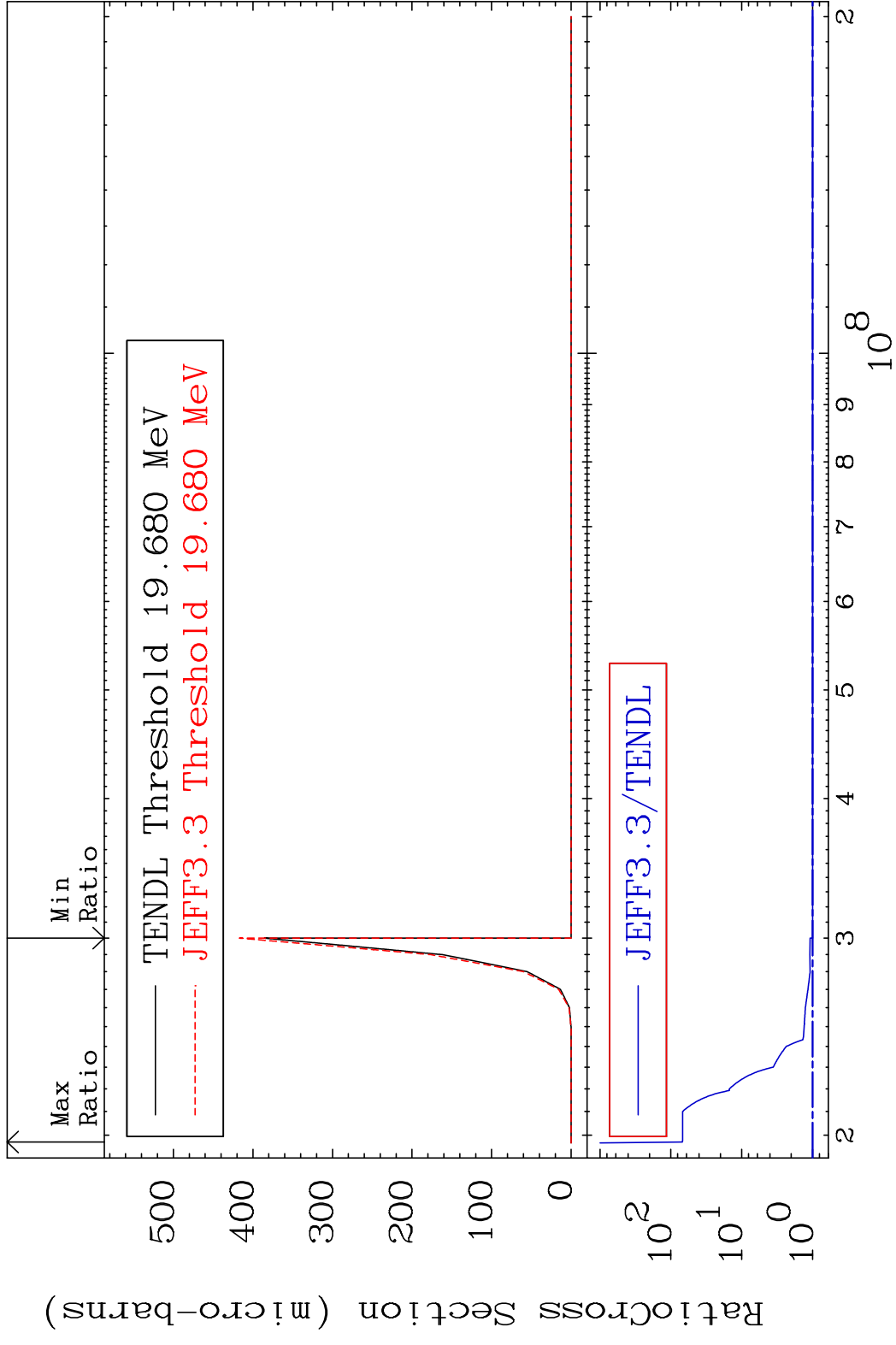
MAT 5137

(n,2n) d

51-Sb-125

Cross Section 0.000

To 6779. %

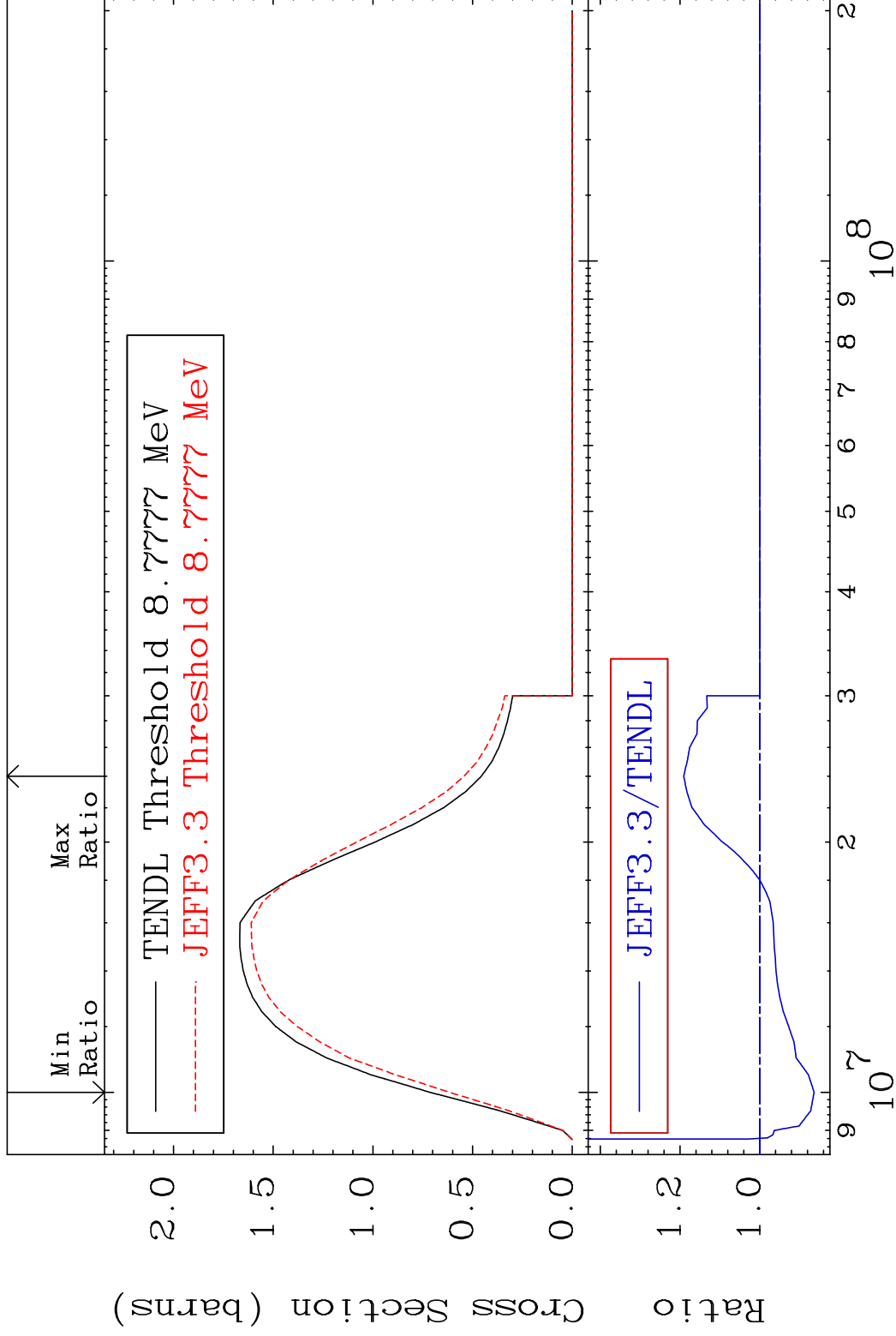


MAT 5137

(n,2n)

51-Sb-125

Cross Section -13.65 To 19.08 %



5

Incident Energy (eV)

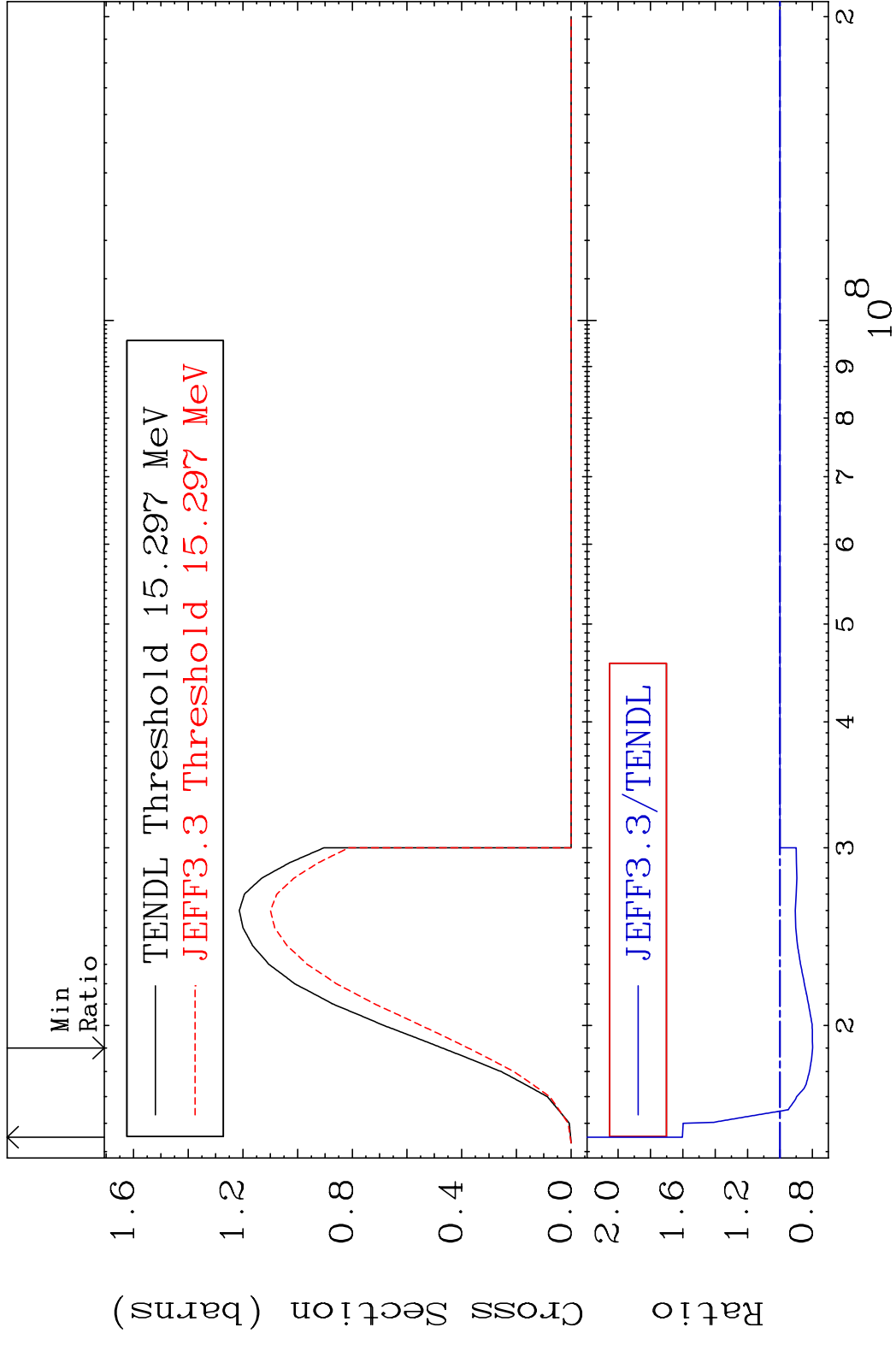
51-Sb-125

MAT 5137

(n,3n)

51-Sb-125

Cross Section -20.10 To 60.28 %

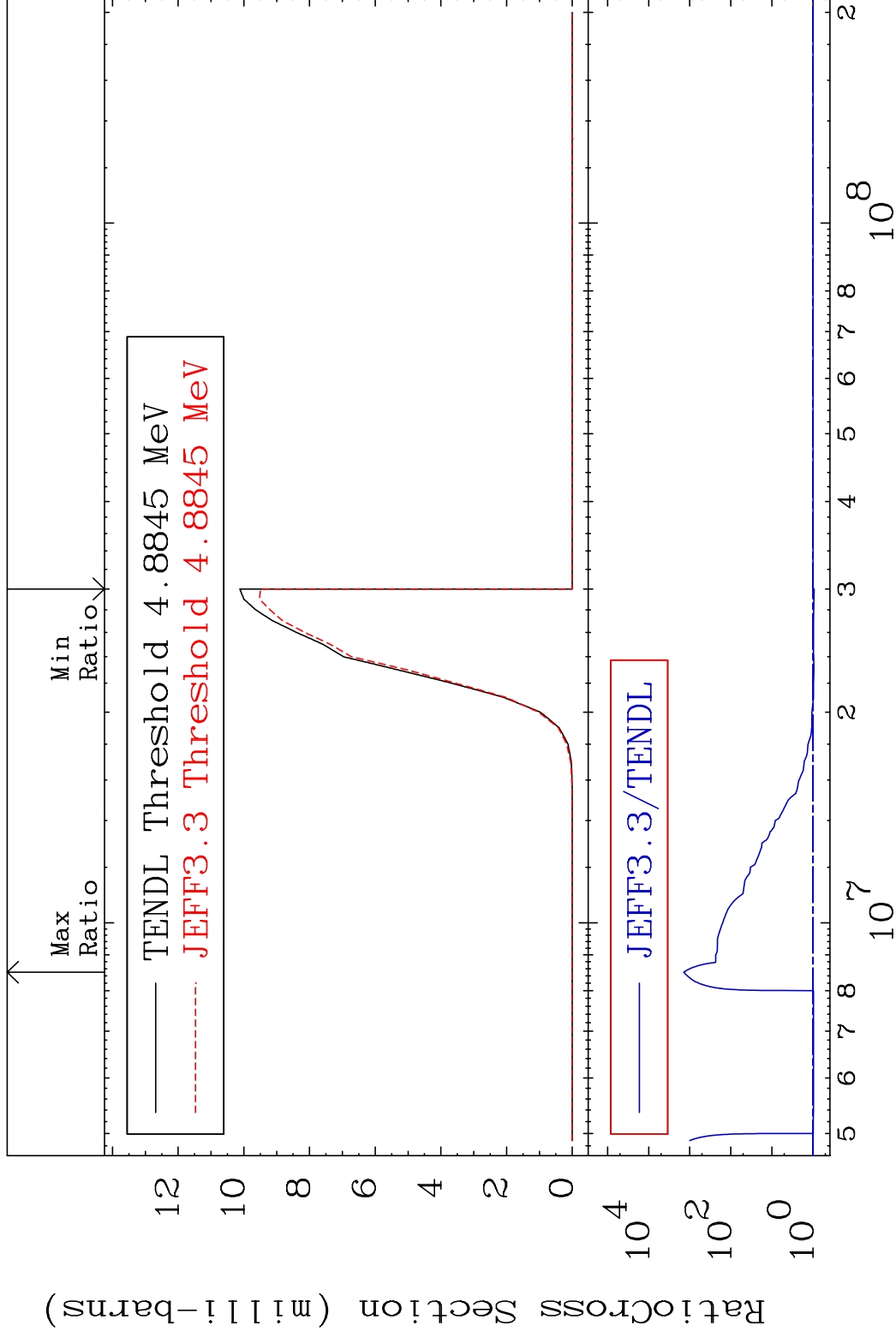


MAT 5137

(n, n')  $\alpha$

51-Sb-125

Cross Section -6.247 To 9999. %



7

Incident Energy (eV)

51-Sb-125

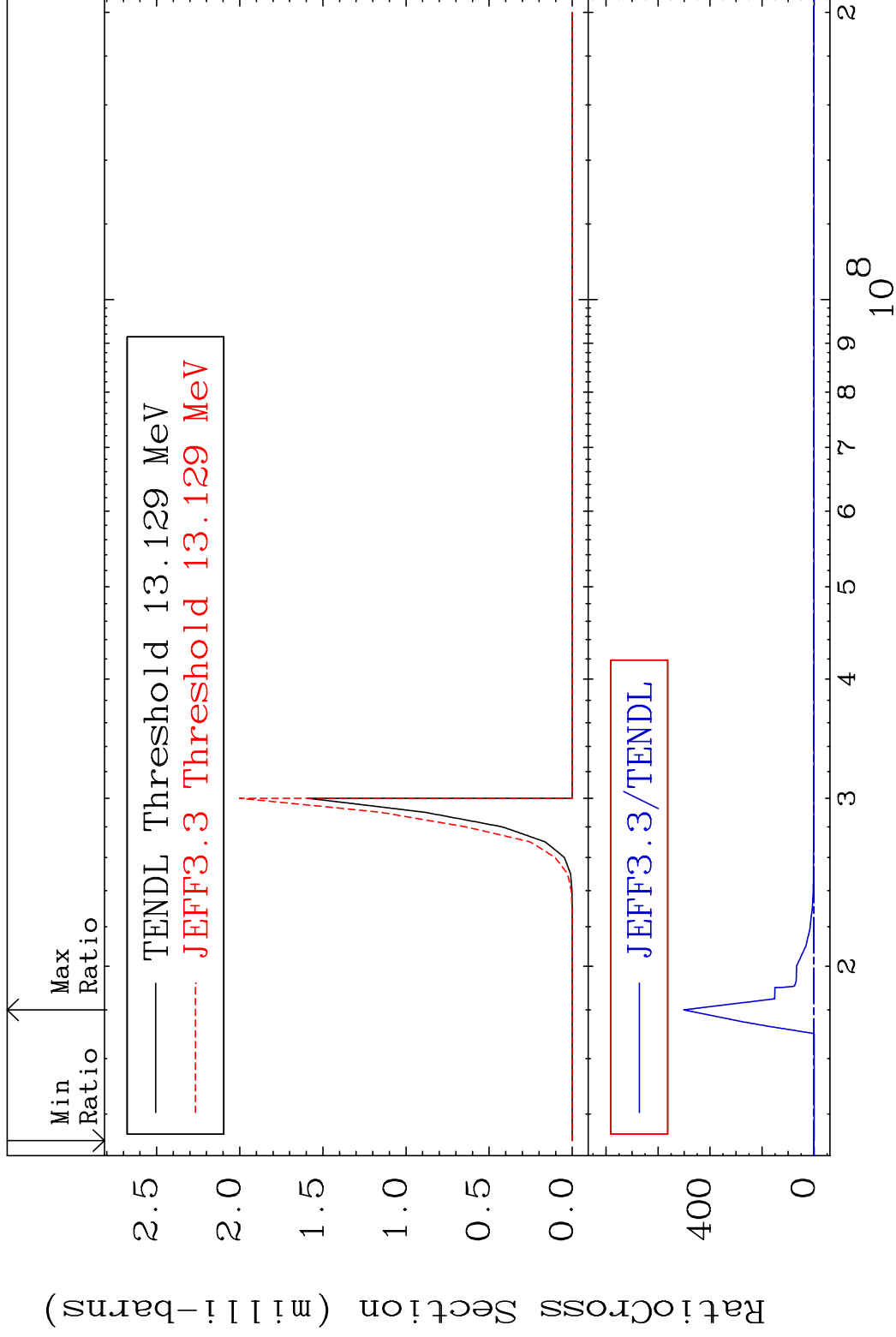


MAT 5137

(n,2n)  $\alpha$

51-Sb-125

Cross Section -100.0 To 9999. %

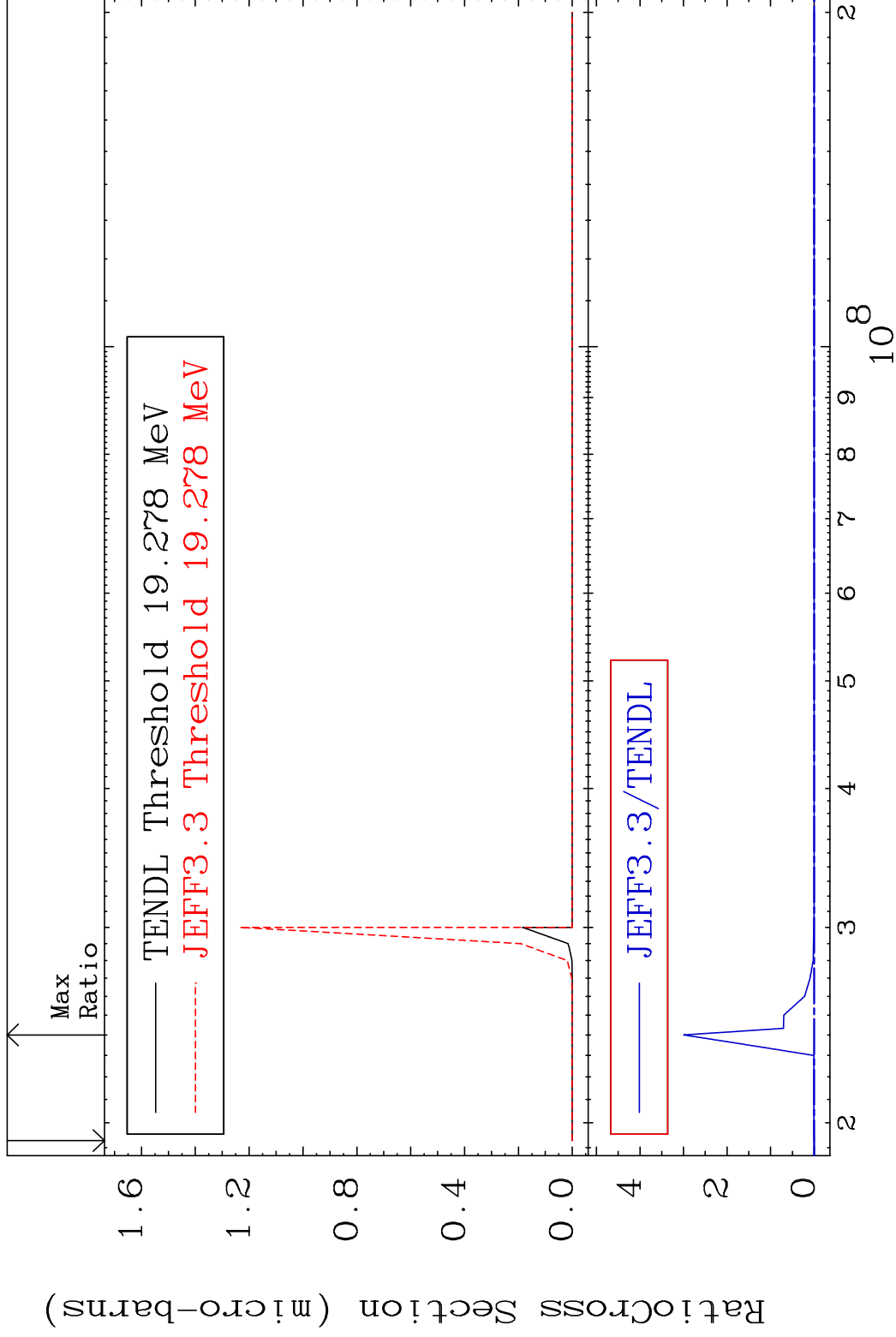


MAT 5137

(n,3n)  $\alpha$

51-Sb-125

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

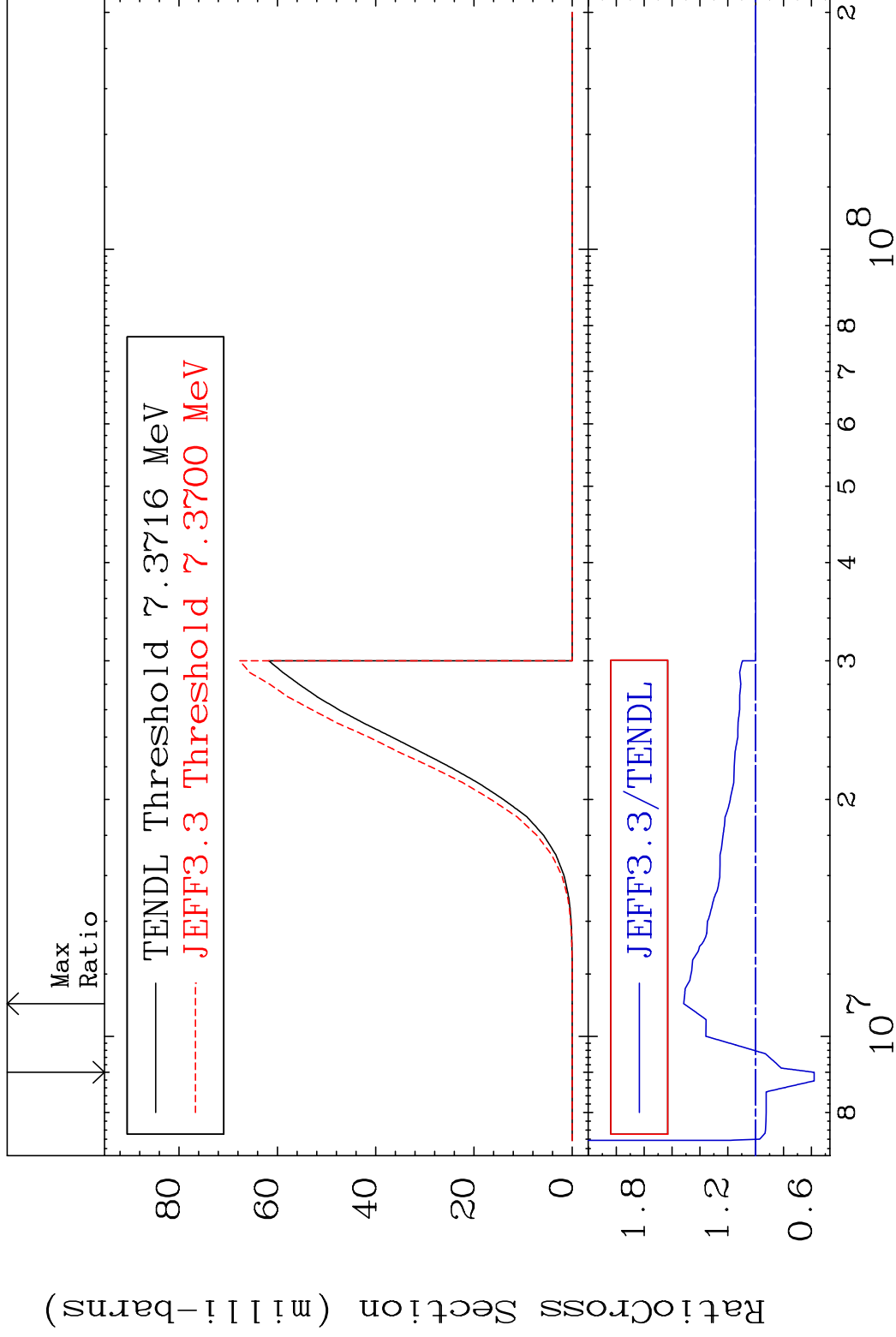
51-Sb-125

MAT 5137

(n, n') p

51-Sb-125

Cross Section -41.94 To 51.68 %



10

Incident Energy (eV)

51-Sb-125

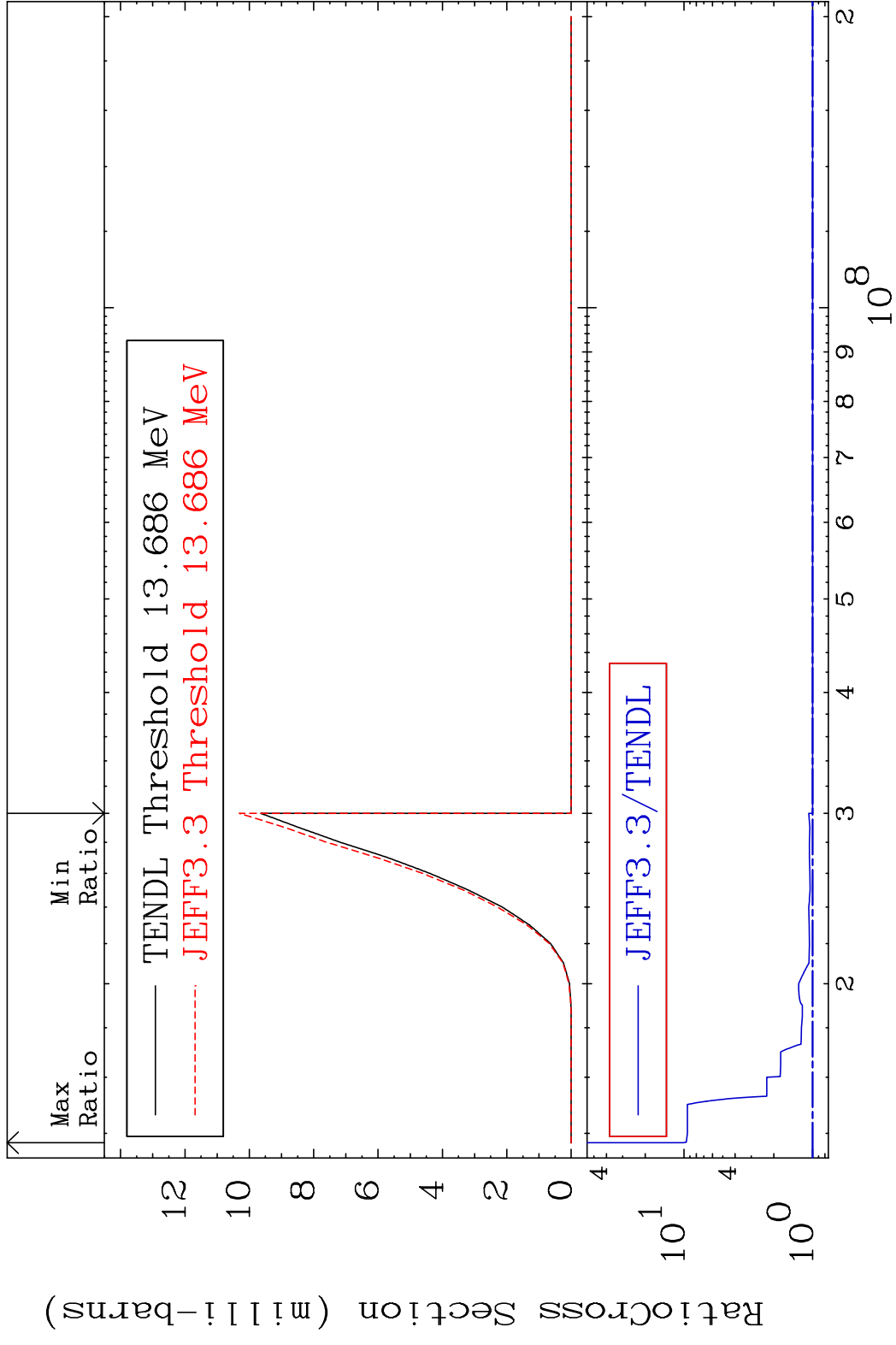
MAT 5137

(n, n') d

51-Sb-125

Cross Section 0.000

To 928.3 %



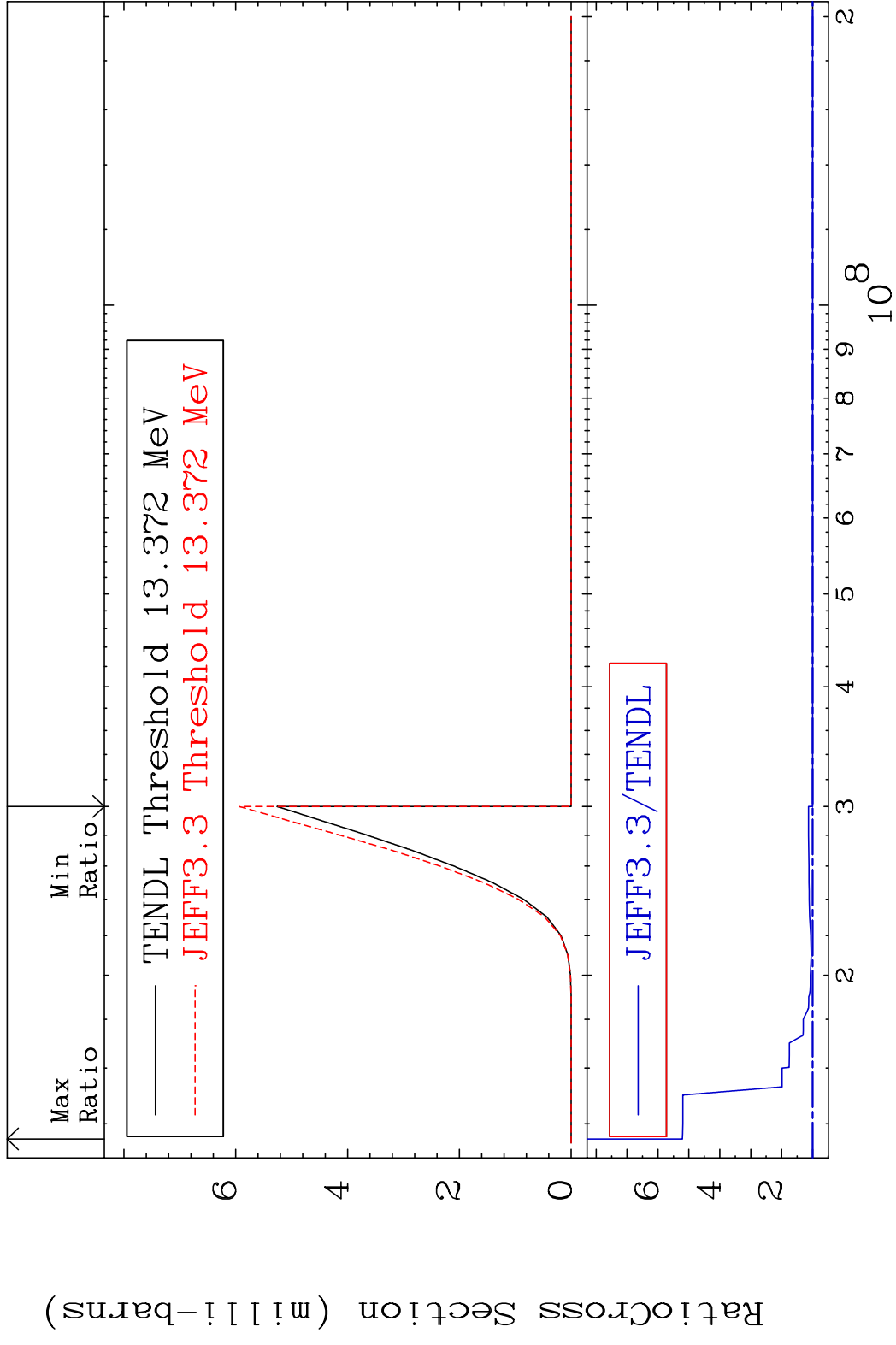
MAT 5137

(n, n') t

51-Sb-125

Cross Section 0.000

To 421.1 %



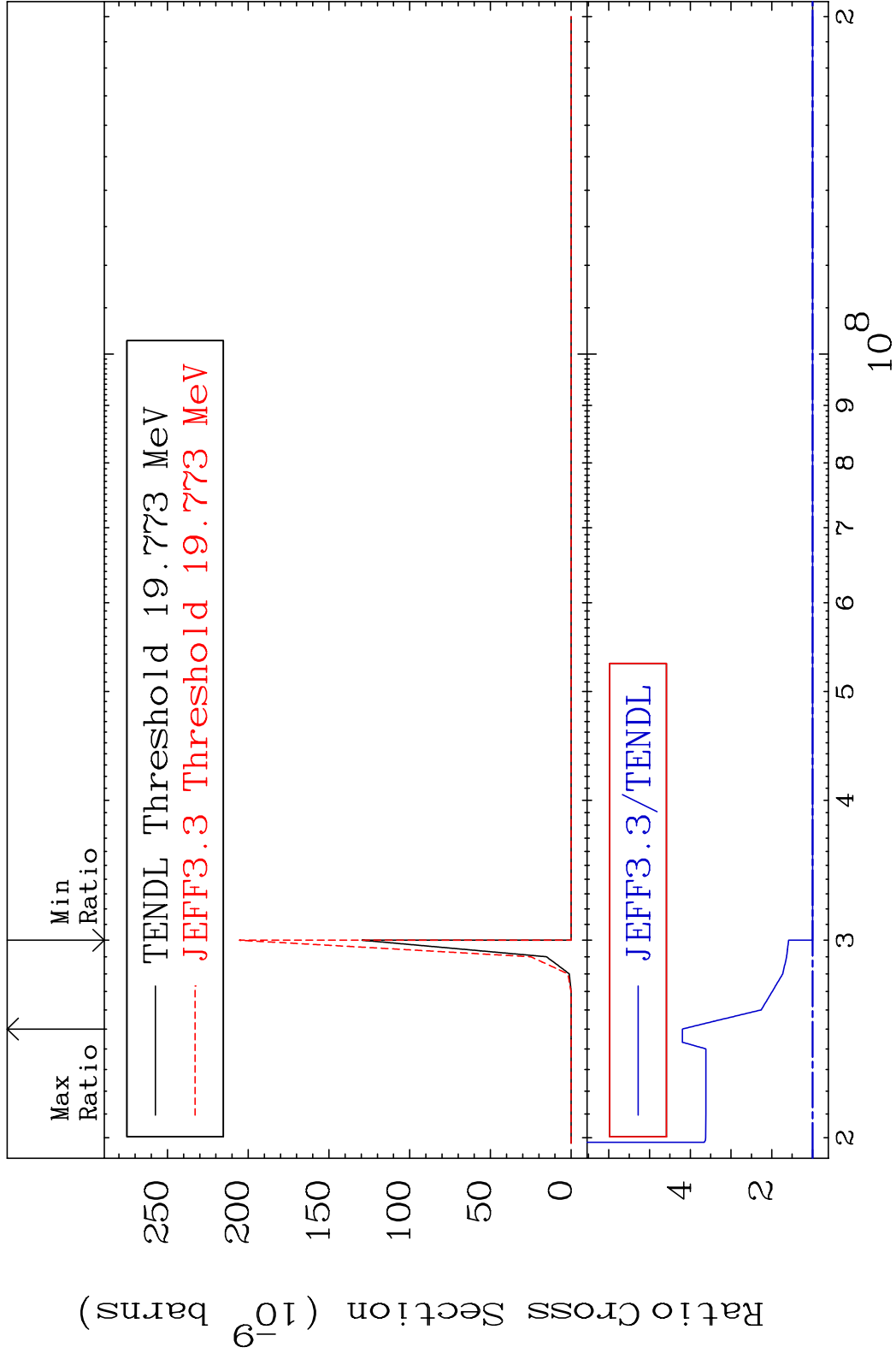
MAT 5137

(n,n') He-3

51-Sb-125

Cross Section 0.000

To 319.5 %

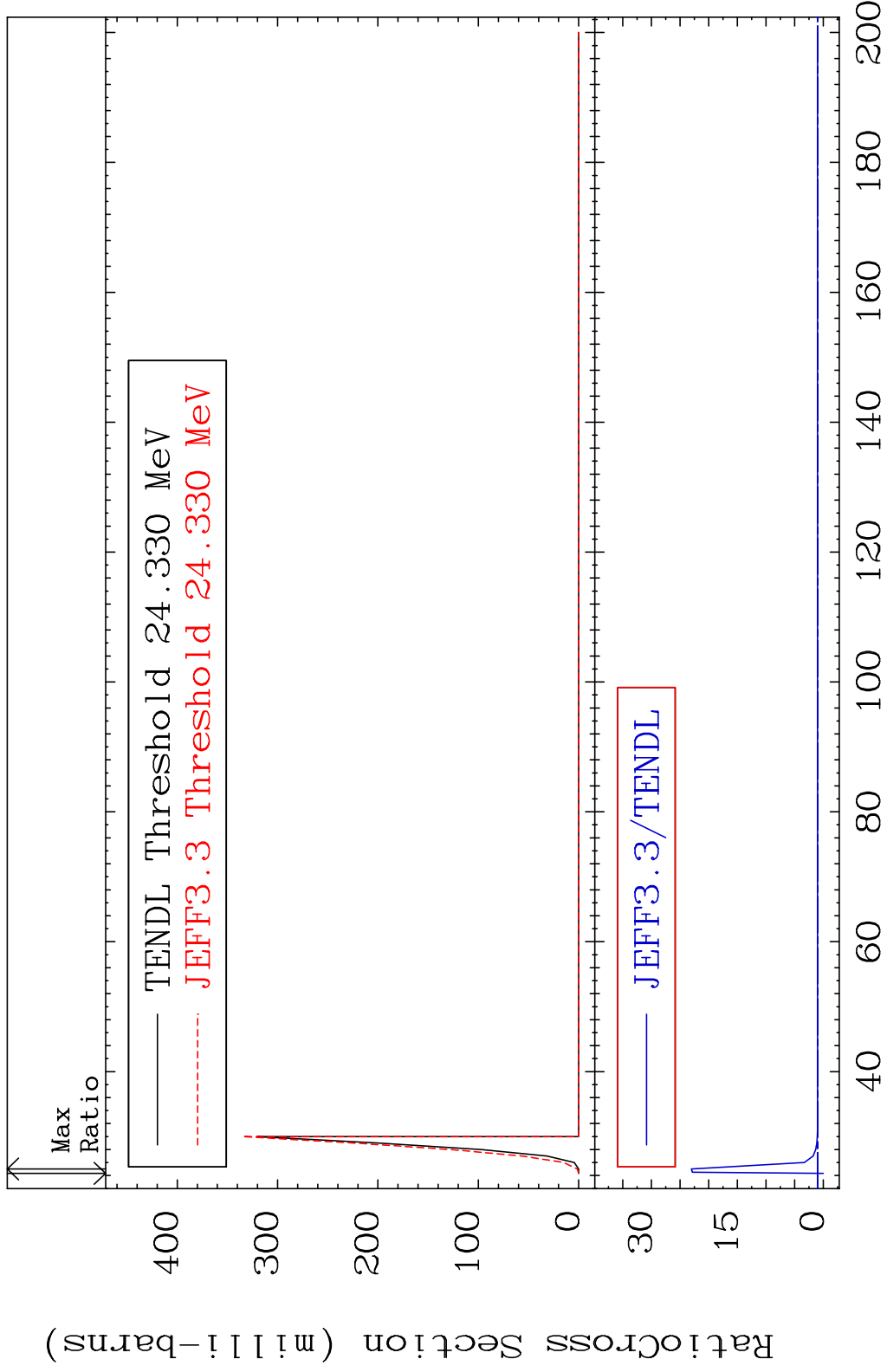


MAT 5137

(n,4n)

51-Sb-125

Cross Section -100.0 To 2204. %



14

Incident Energy (MeV)

51-Sb-125

MAT 5137

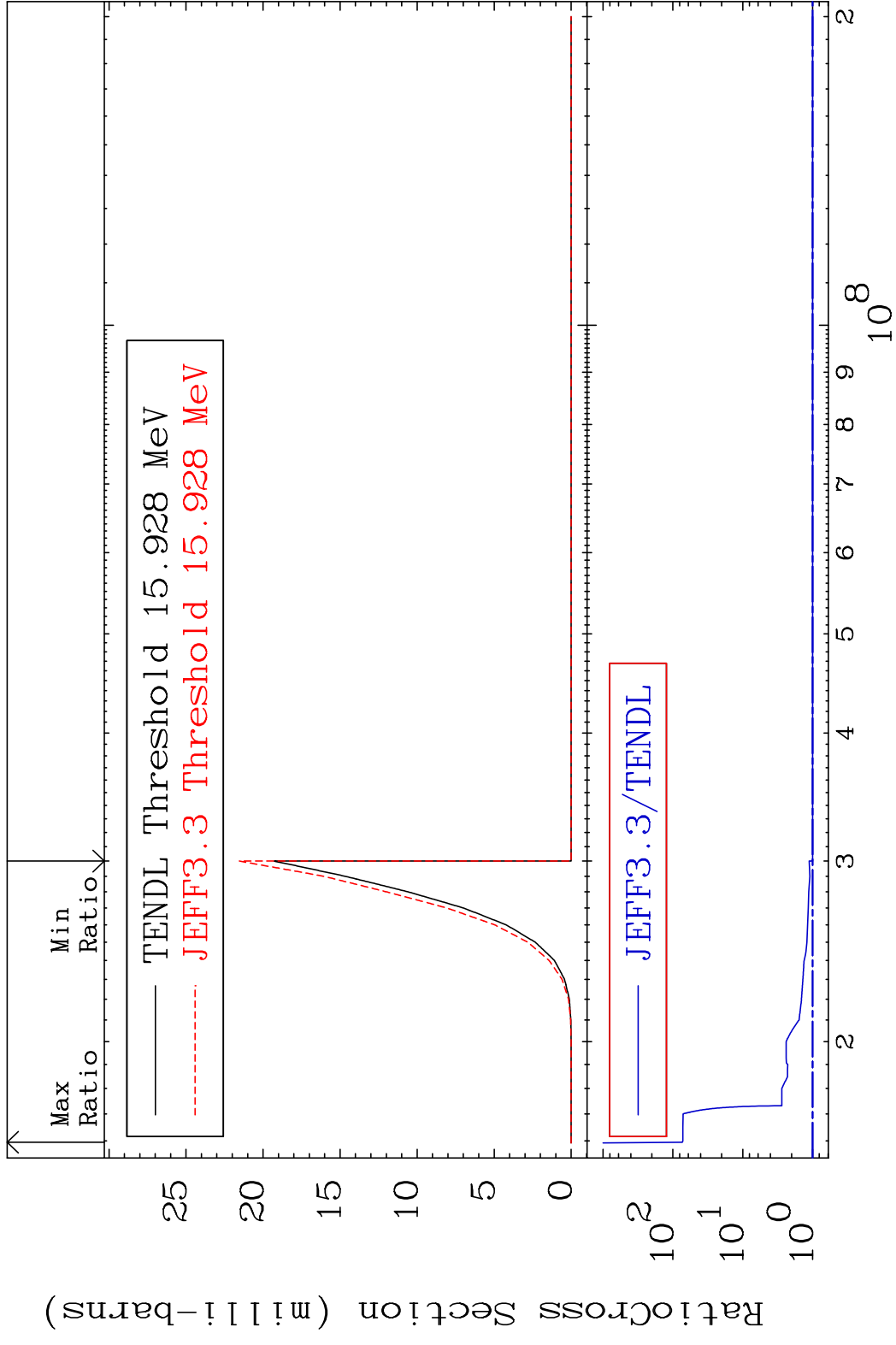
(n,2n) p

51-Sb-125

Cross Section

0.000

To 7220. %





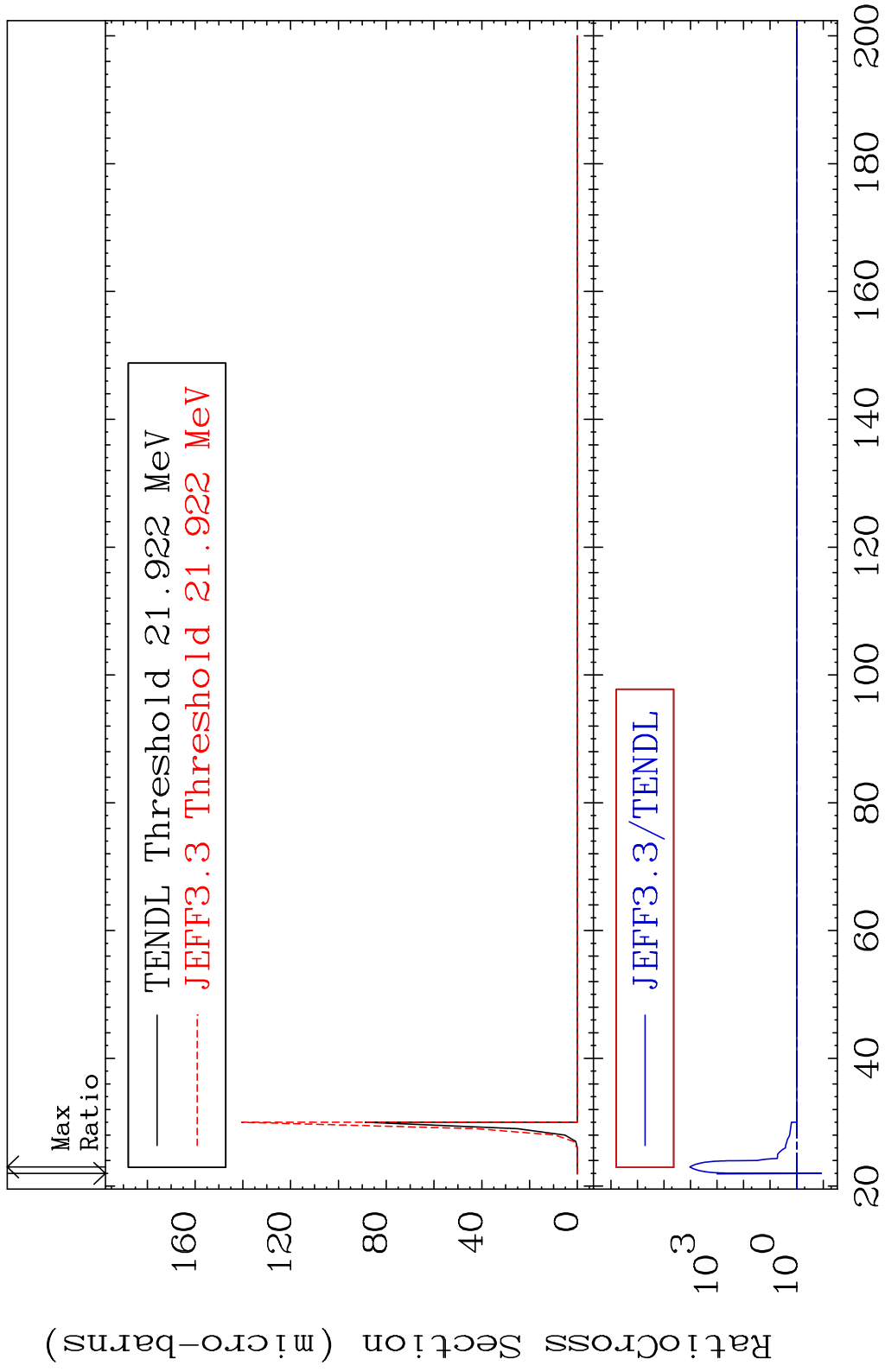
MAT 5137

(n,3n) p

51-Sb-125

Cross Section

-88.30 To 9999. %



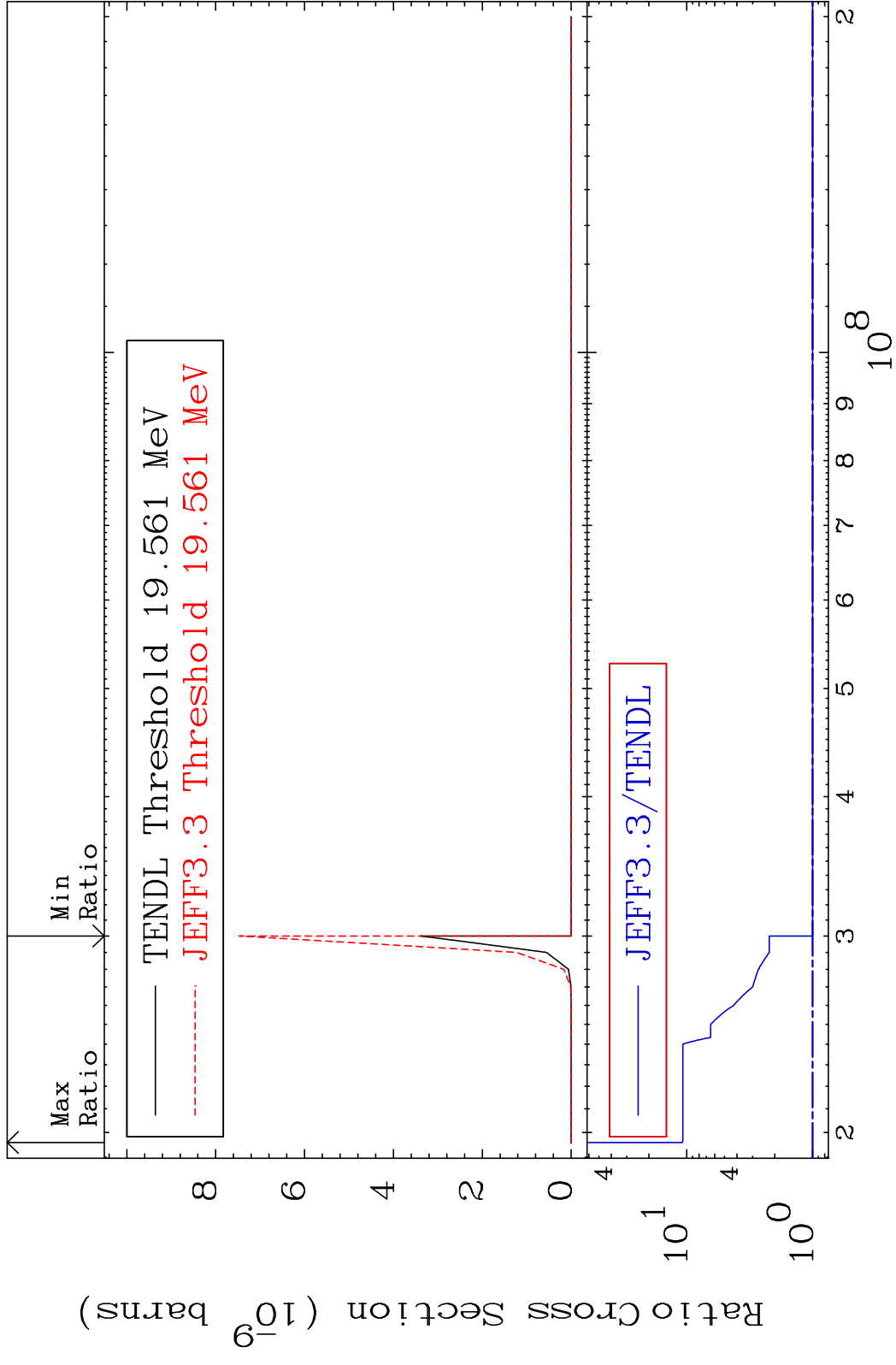
MAT 5137

(n,2n) p

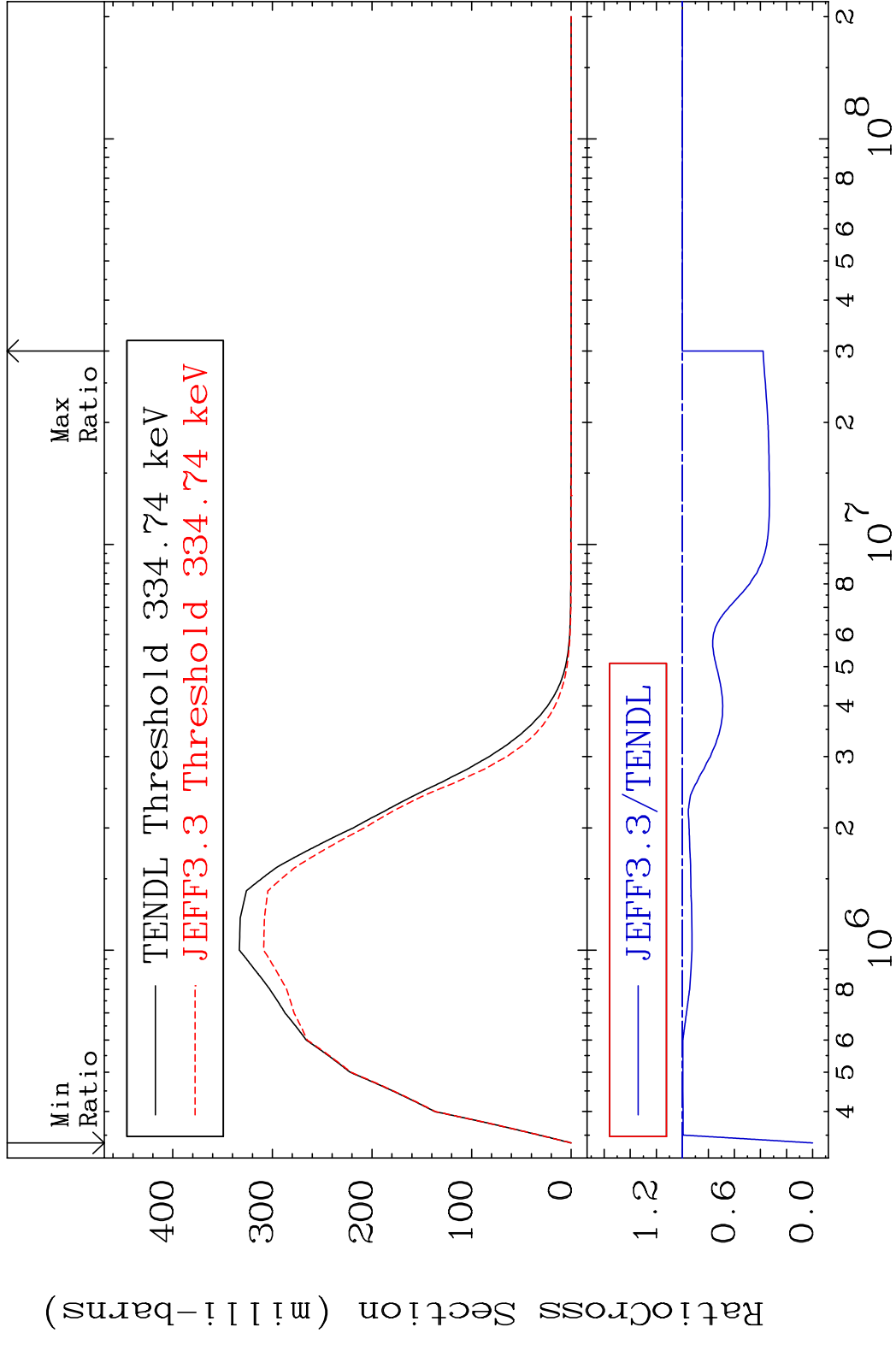
51-Sb-125

Cross Section 0.000

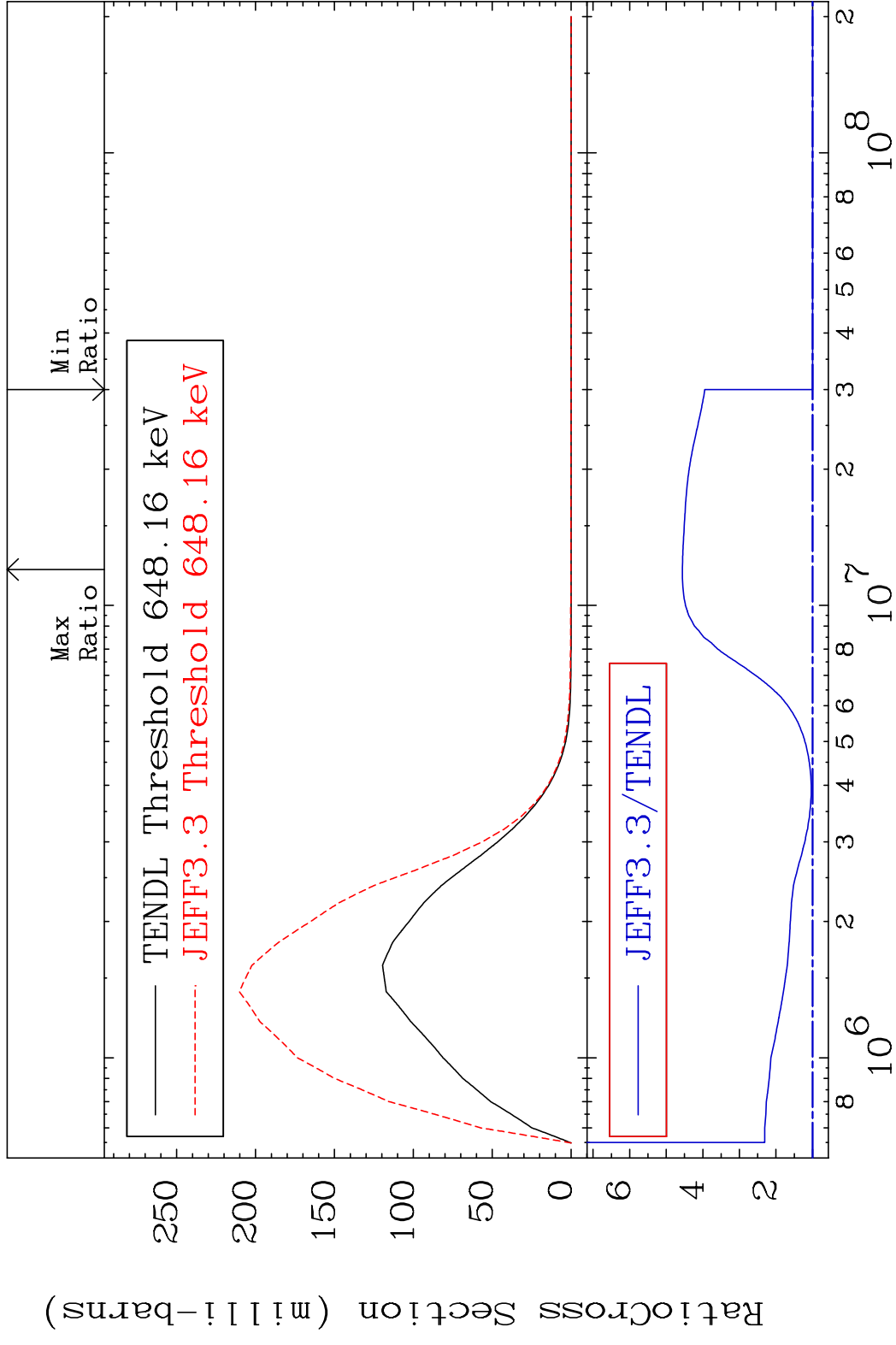
To 985.3 %



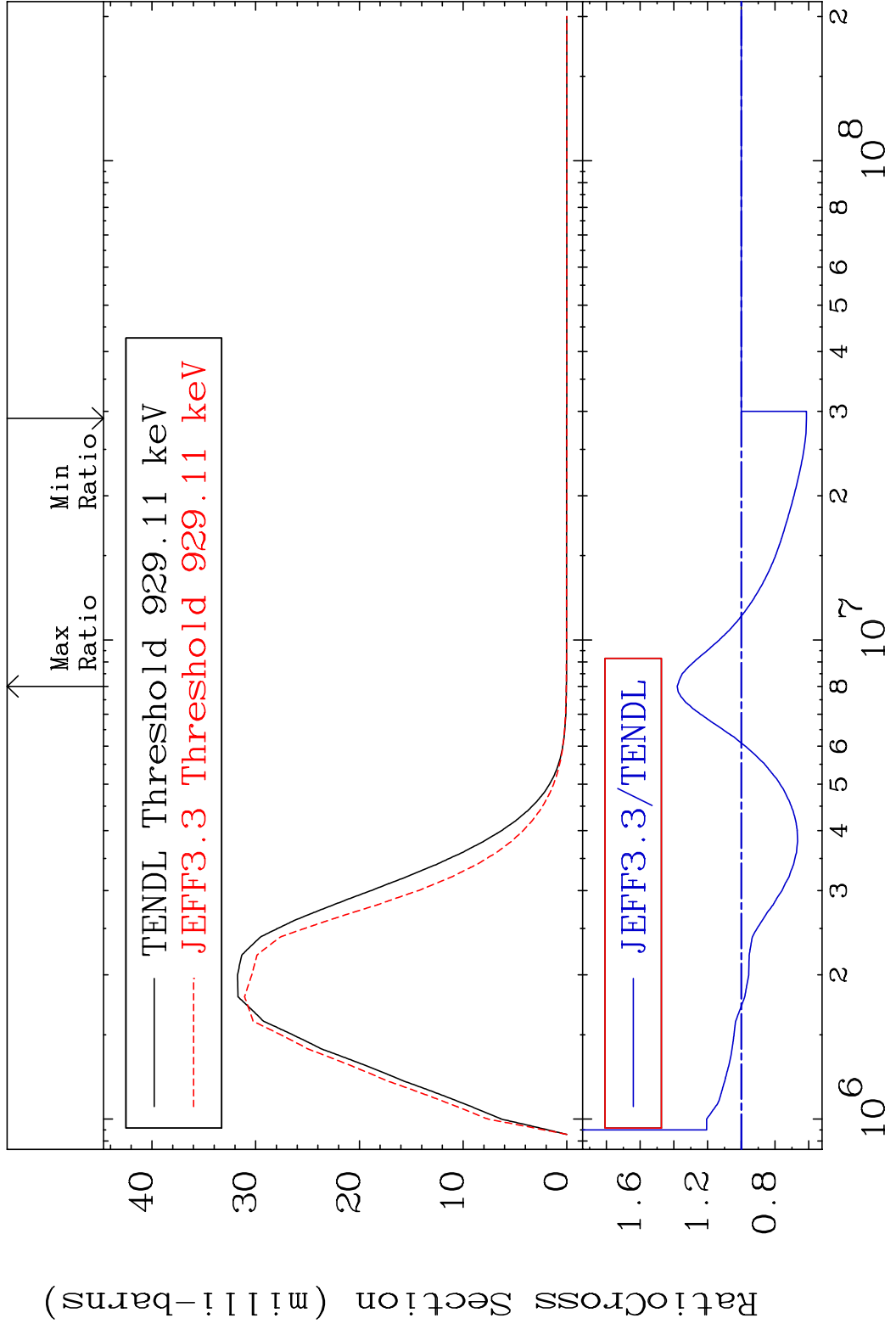
MAT 5137 MT= 51 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 0.000 %



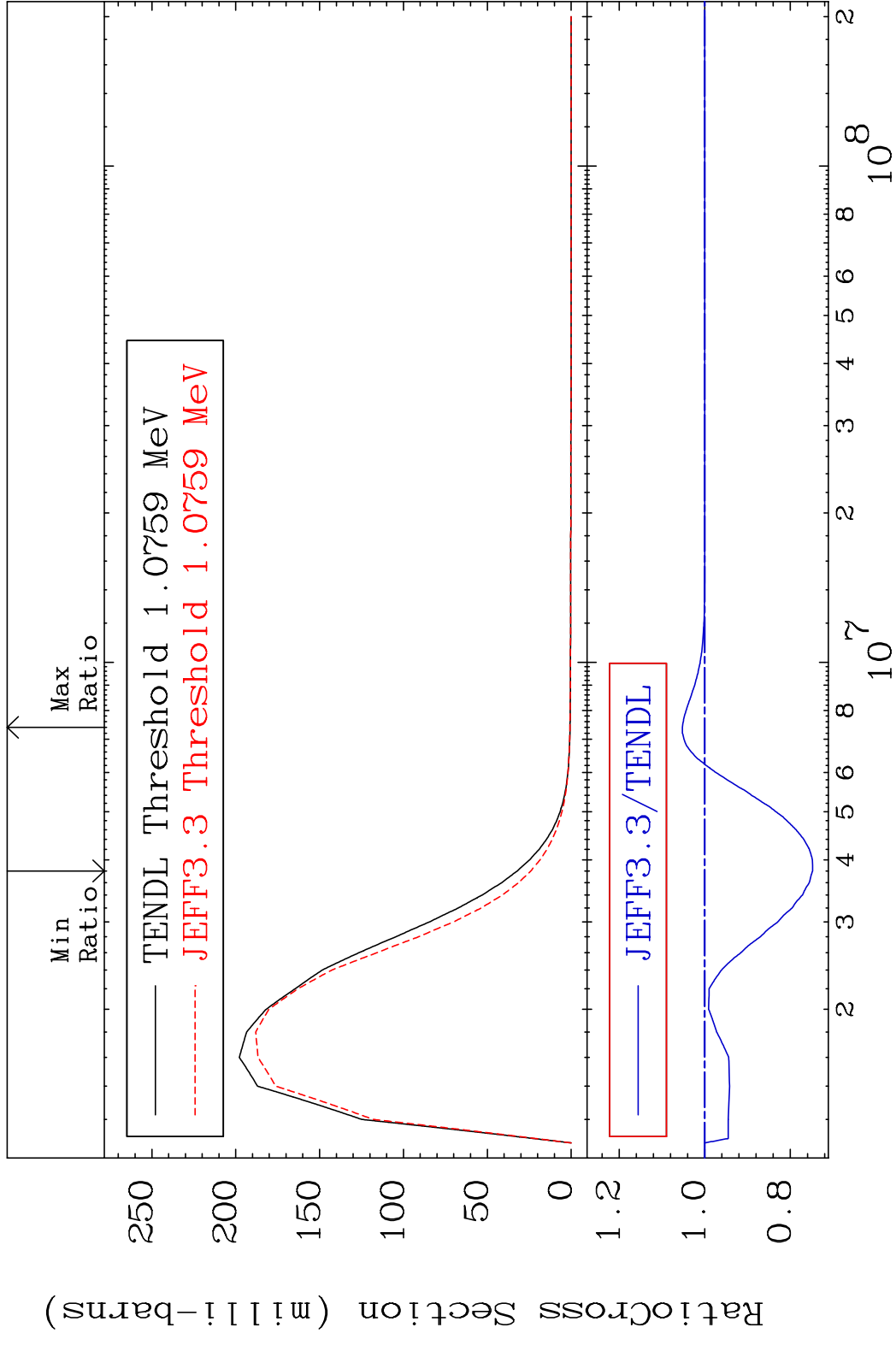
MAT 5137 MT= 52 (n, n') Level 51-Sb-125  
 Cross Section 0.000 To 356.0 %



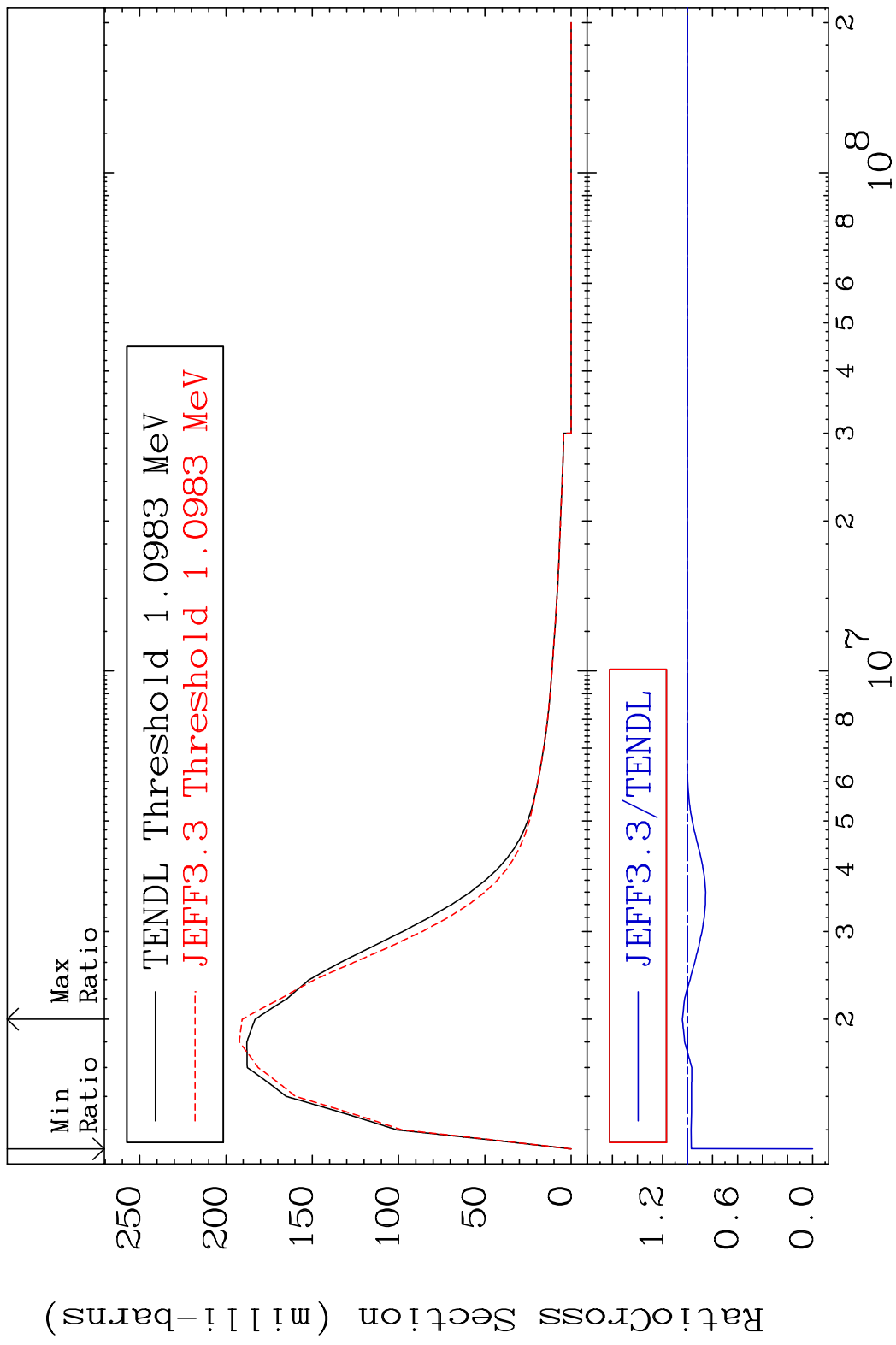
MAT 5137 MT= 53 (n, n') Level 51-Sb-125  
 Cross Section -38.57 To 38.06 %



MAT 5137 MT= 54 (n,n') Level 51-Sb-125  
 Cross Section -25.18 To 5.231 %



MAT 5137 MT= 55 (n,n') Level 51-Sb-125  
 Cross Section -100.0 To 4.109 %

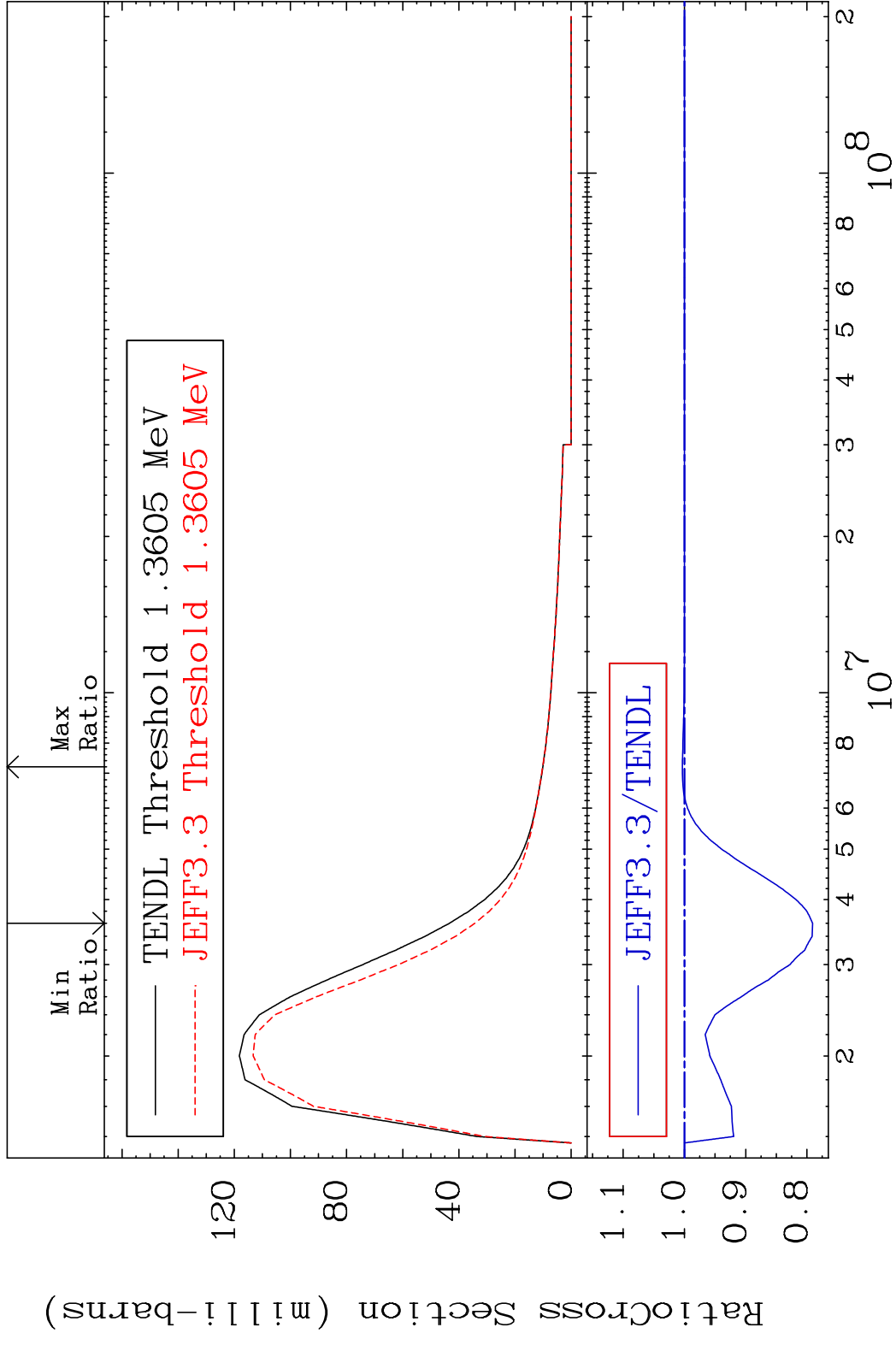


MAT 5137

MT= 56 (n, n') Level

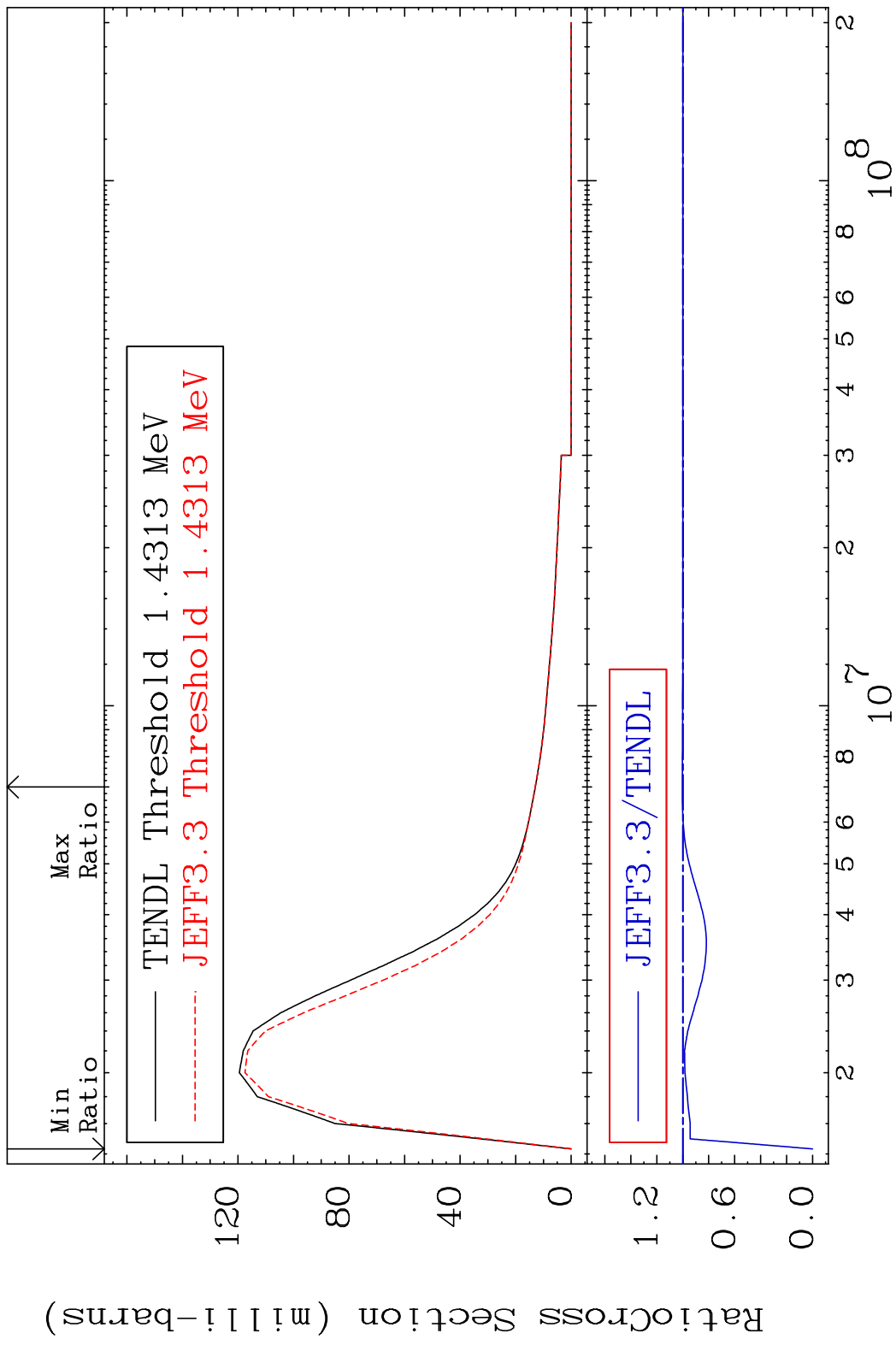
51-Sb-125

Cross Section -20.92 To 0.341 %

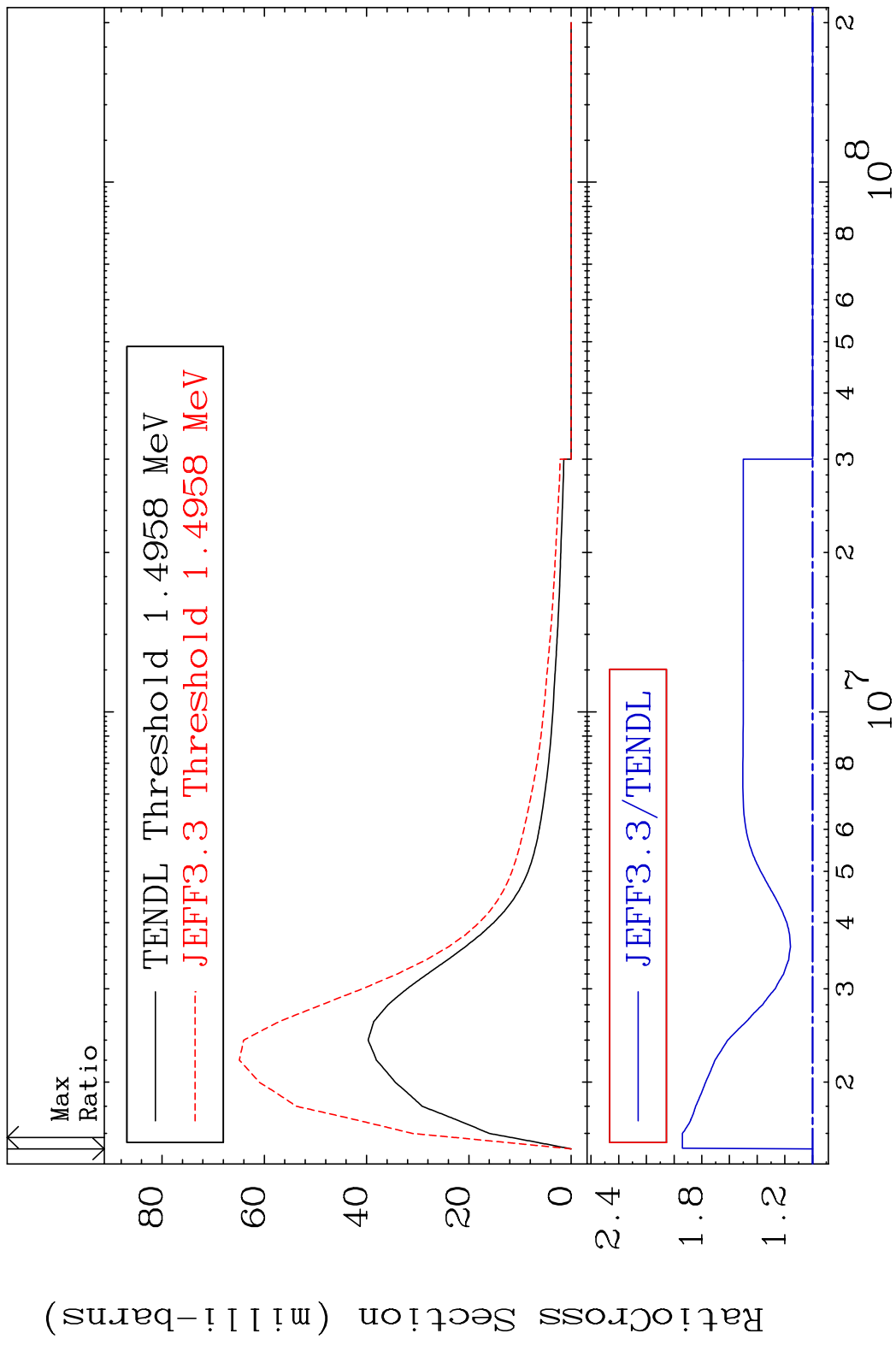




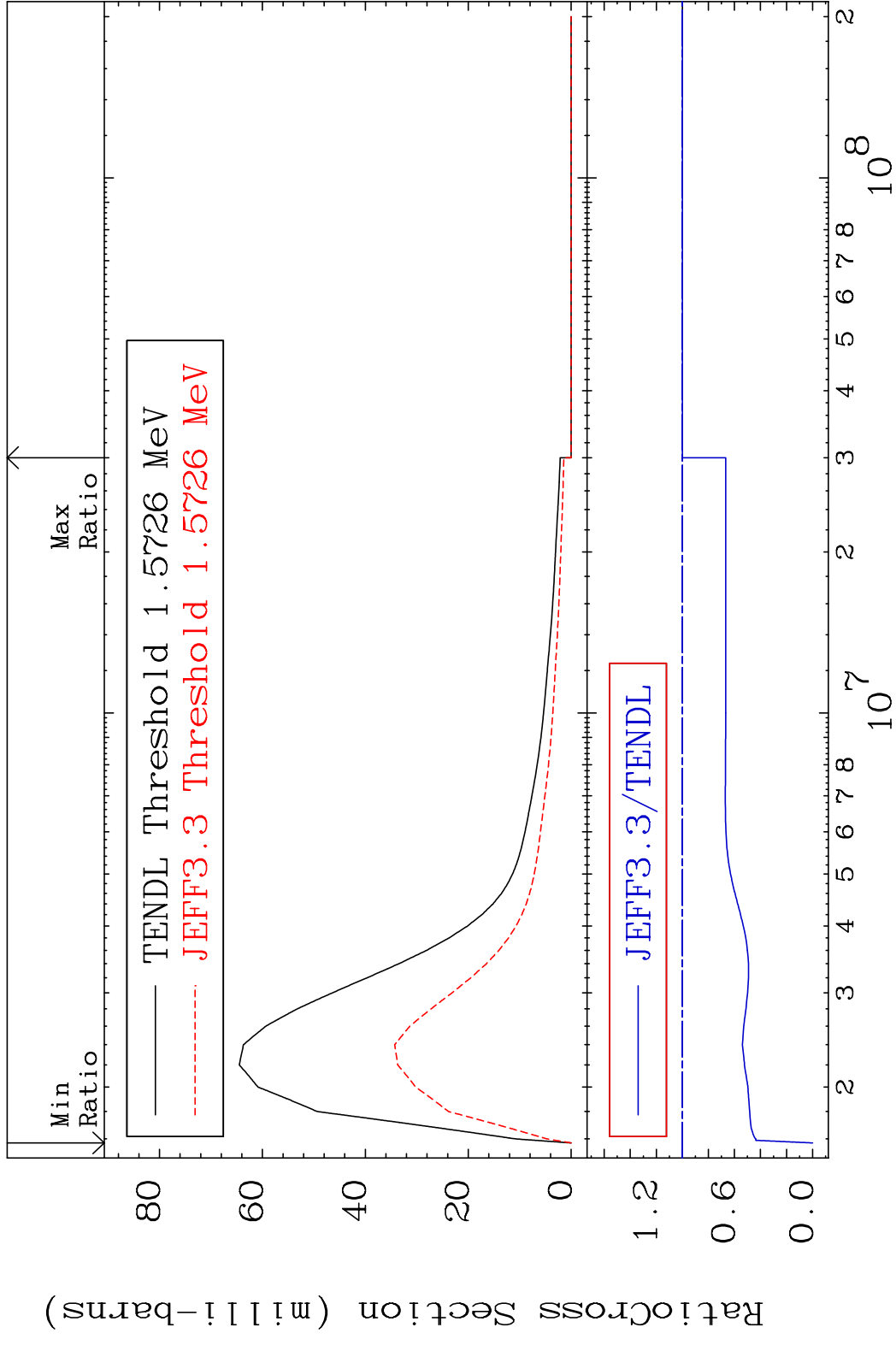
MAT 5137 MT= 57 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 0.312 %



MAT 5137 MT= 58 (n, n') Level 51-Sb-125  
 Cross Section 0.000 To 94.03 %



MAT 5137 MT= 59 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 0.000 %

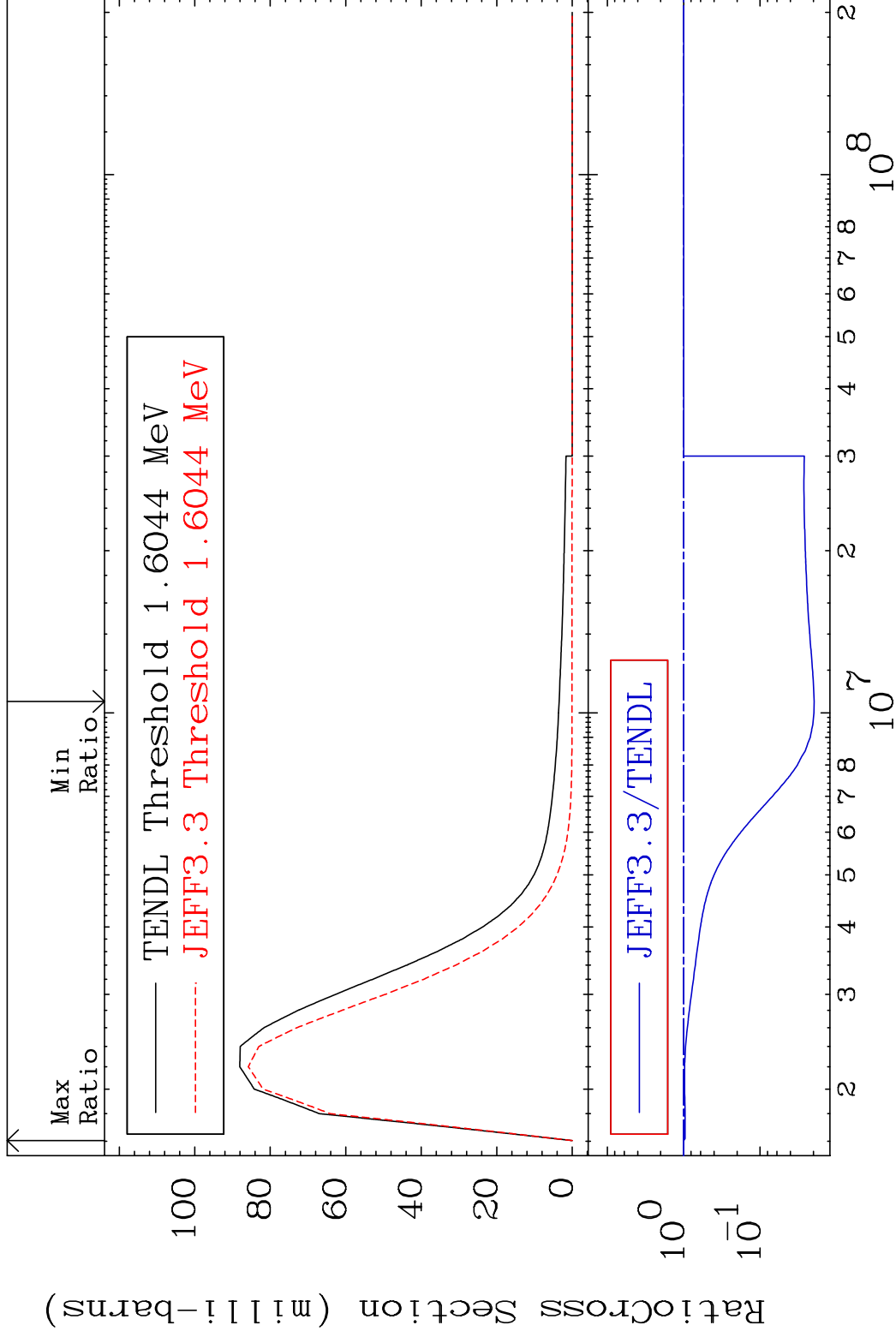


MAT 5137

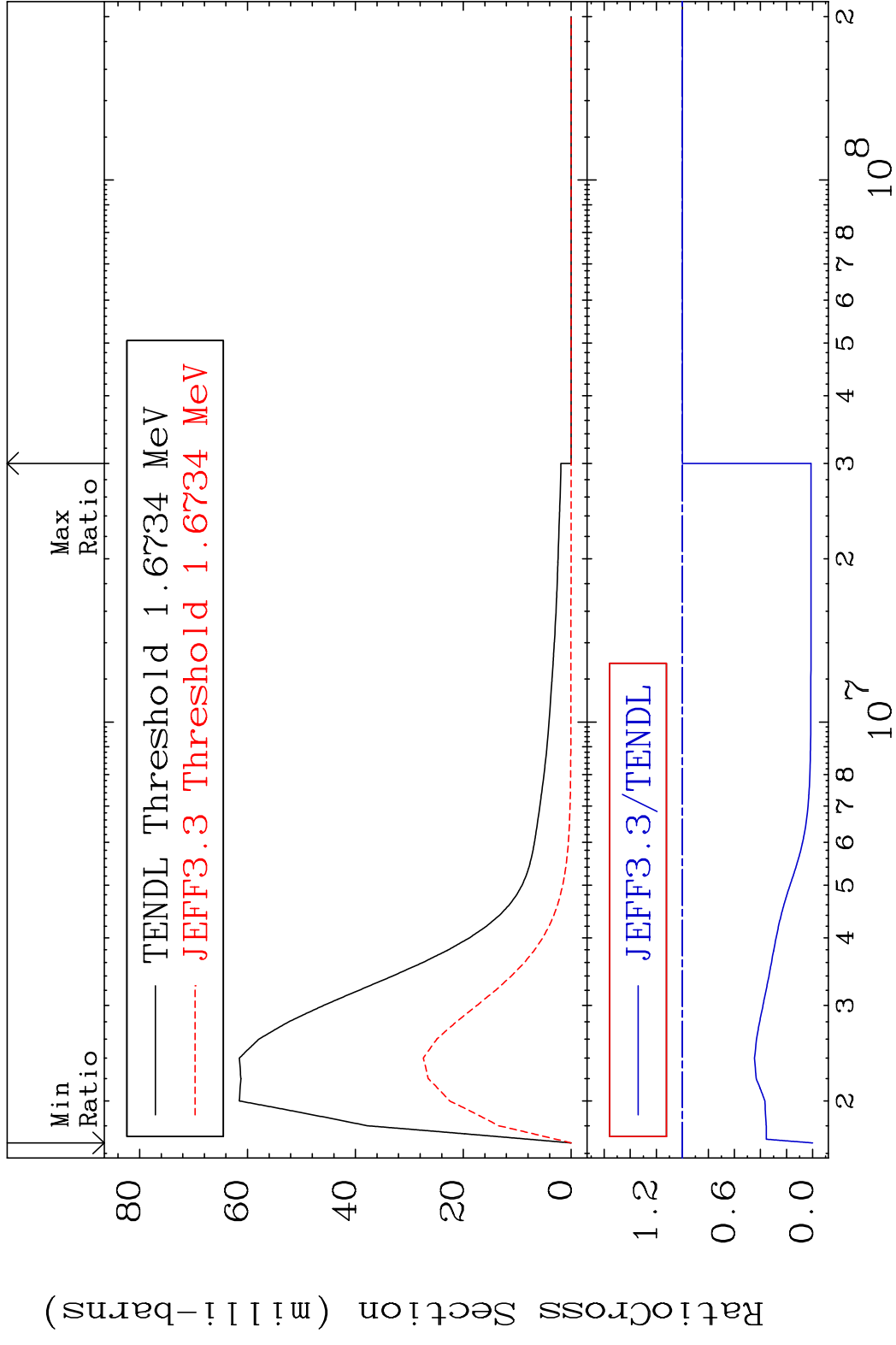
MT= 60 (n,n')

Level 51-Sb-125

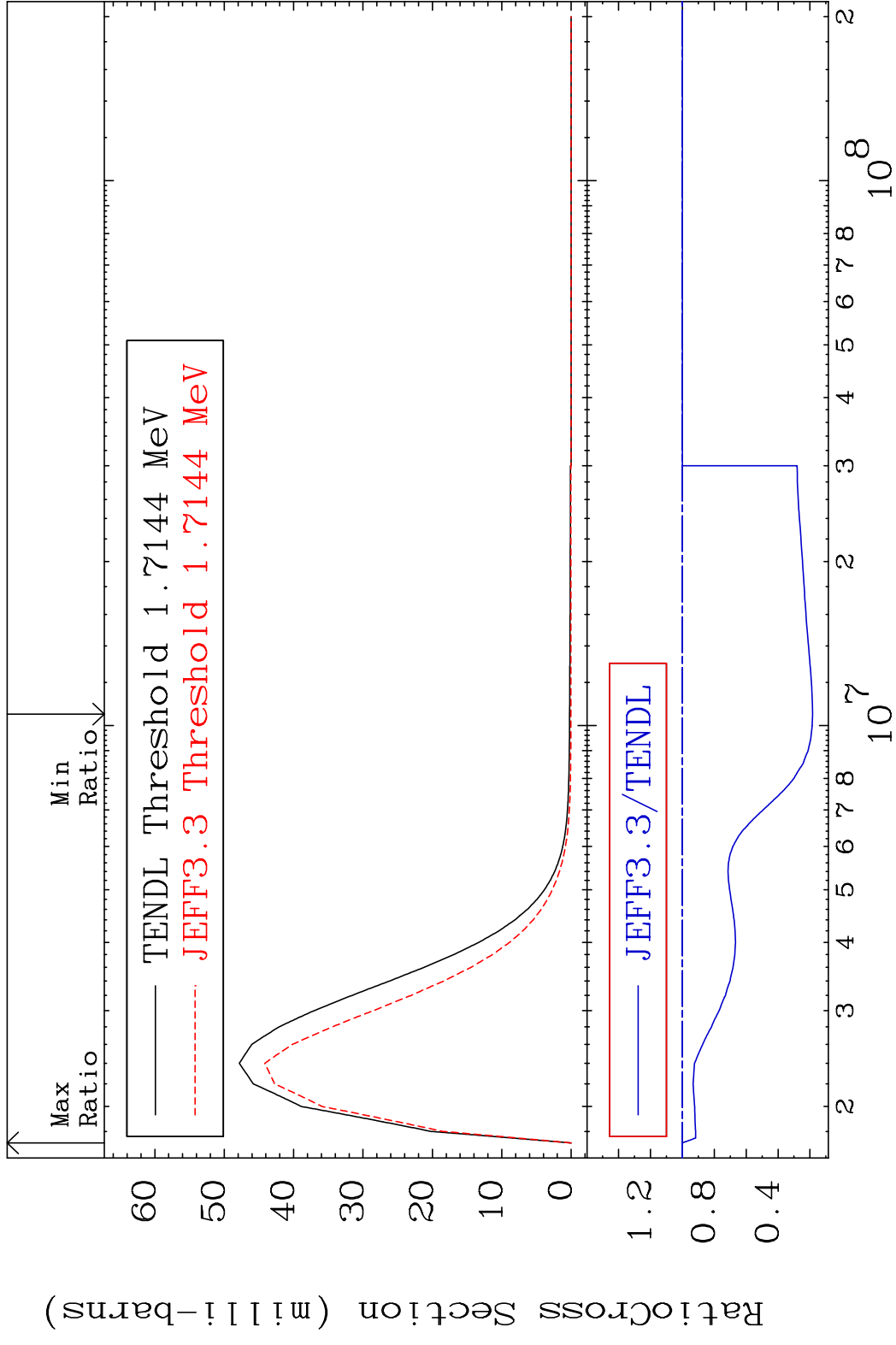
Cross Section -98.04 To 0.000 %



MAT 5137 MT= 61 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 0.000 %



MAT 5137 MT= 62 (n,n') Level 51-Sb-125  
 Cross Section -81.63 To 0.000 %

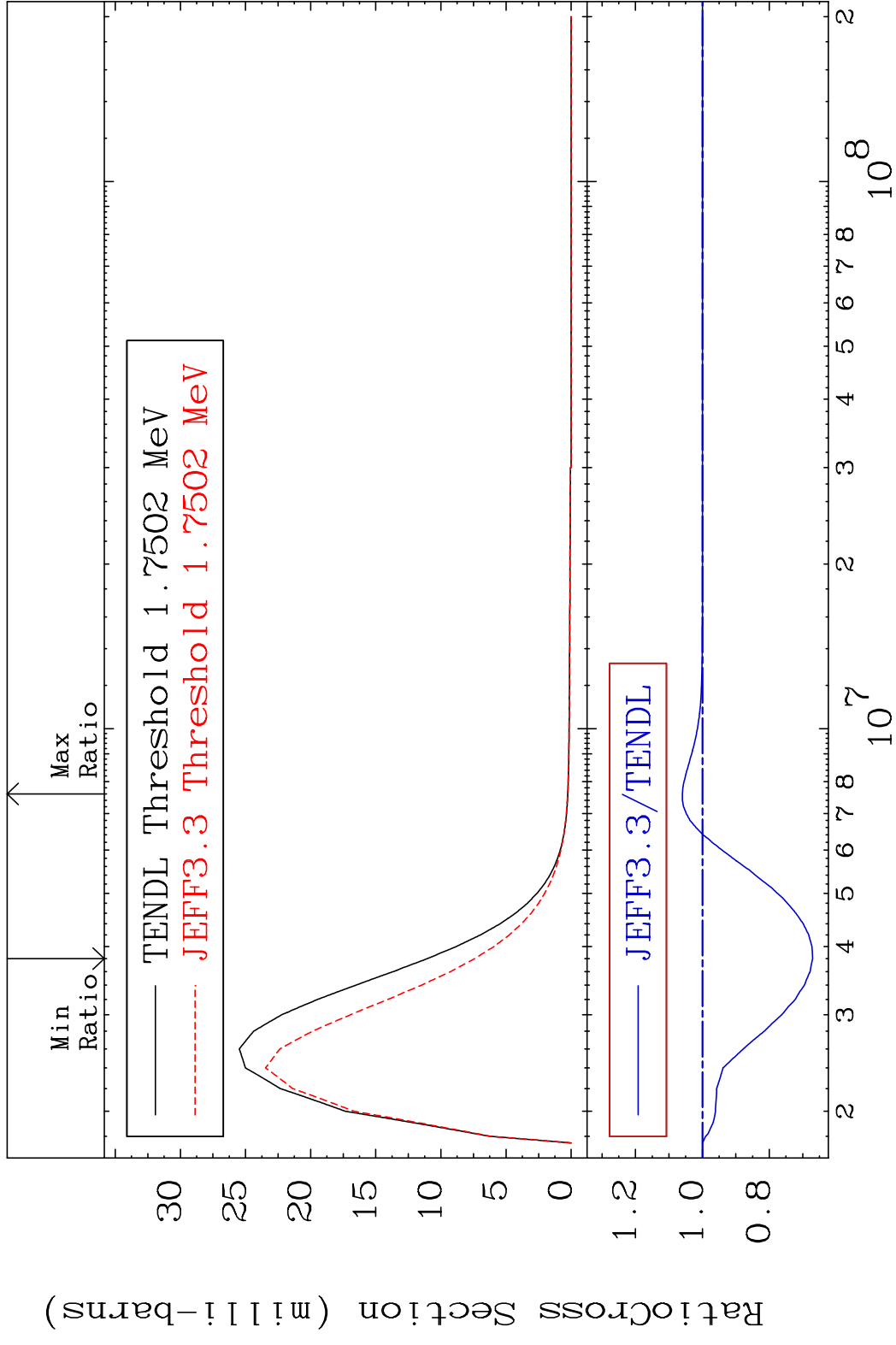


MAT 5137

MT= 63 (n, n') Level

51-Sb-125

Cross Section -32.93 To 5.991 %



30

Incident Energy (eV)

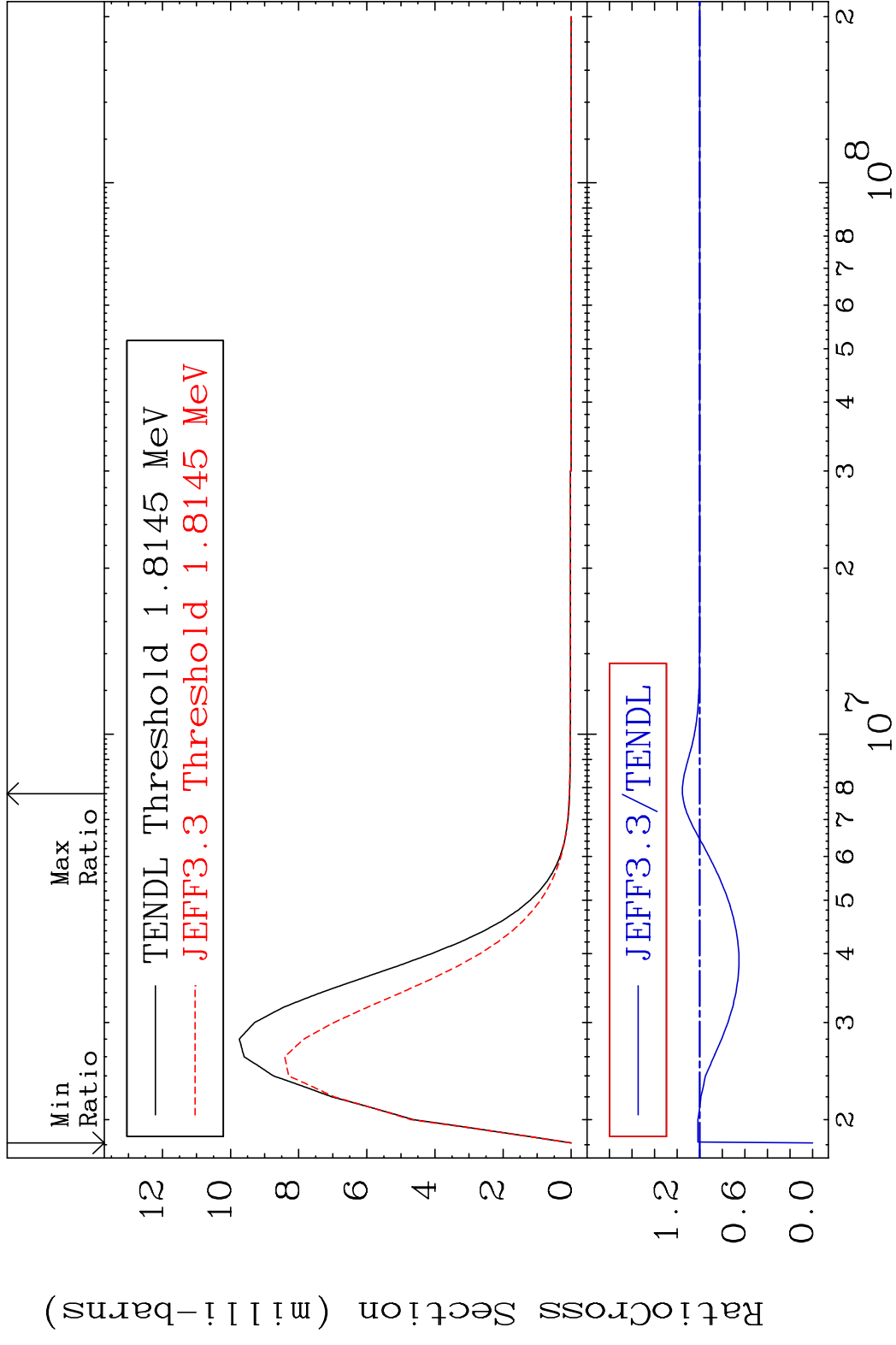
51-Sb-125

MAT 5137

MT= 64 (n, n') Level

51-Sb-125

Cross Section -100.0 To 15.38 %



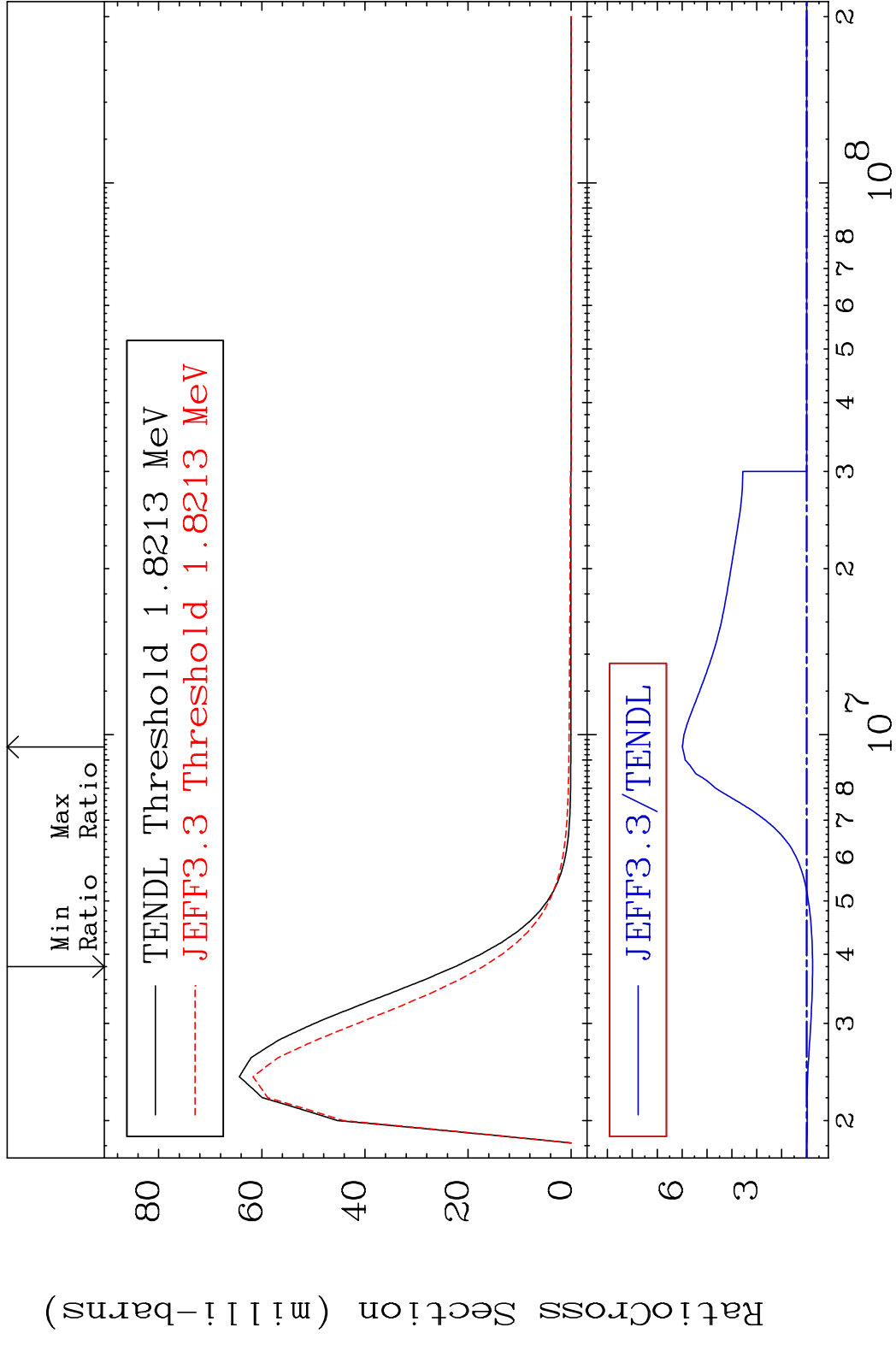


MAT 5137

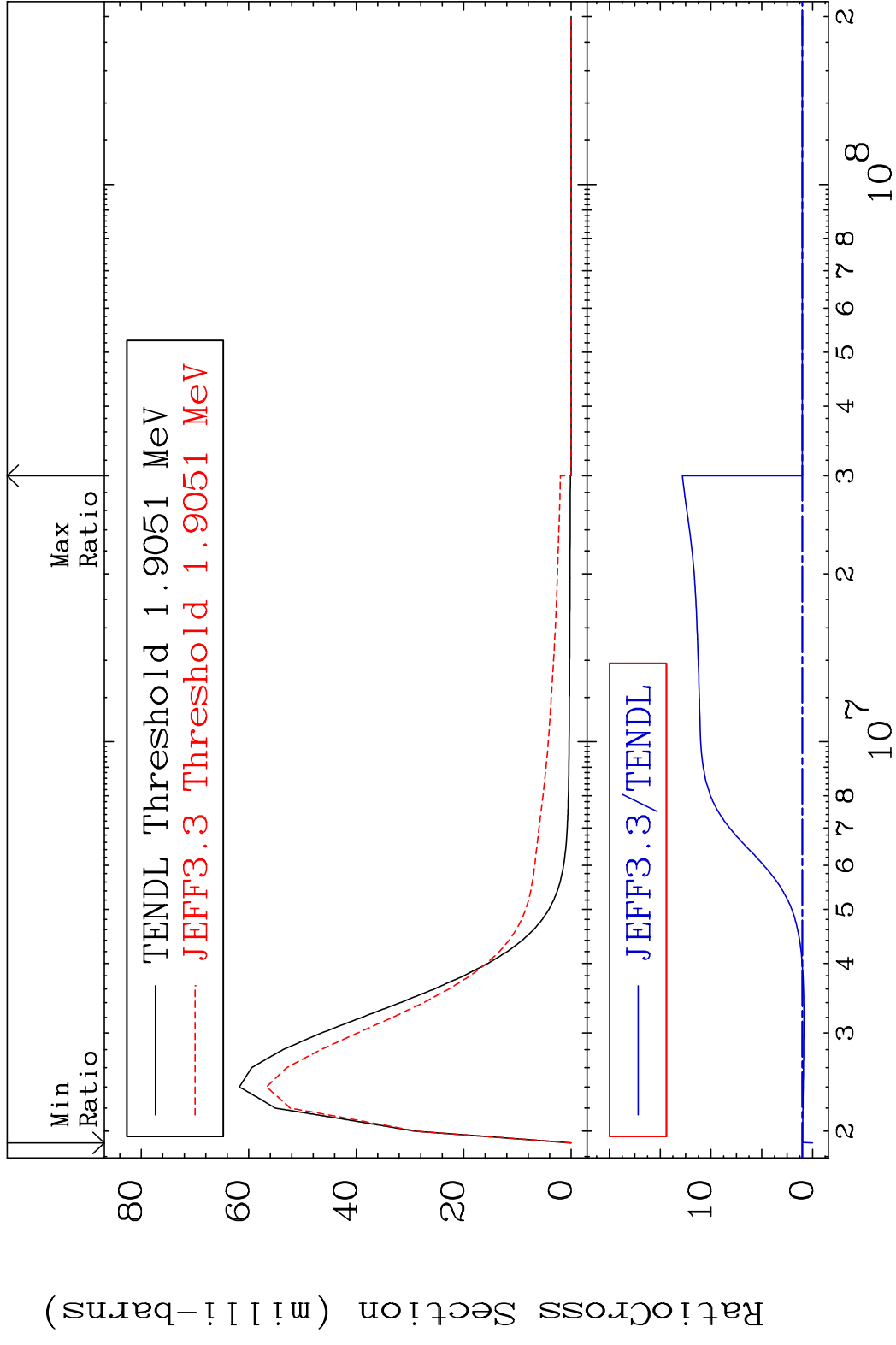
MT= 65 (n, n') Level

51-Sb-125

Cross Section -24.00 To 499.0 %



MAT 5137 MT= 66 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 1182. %

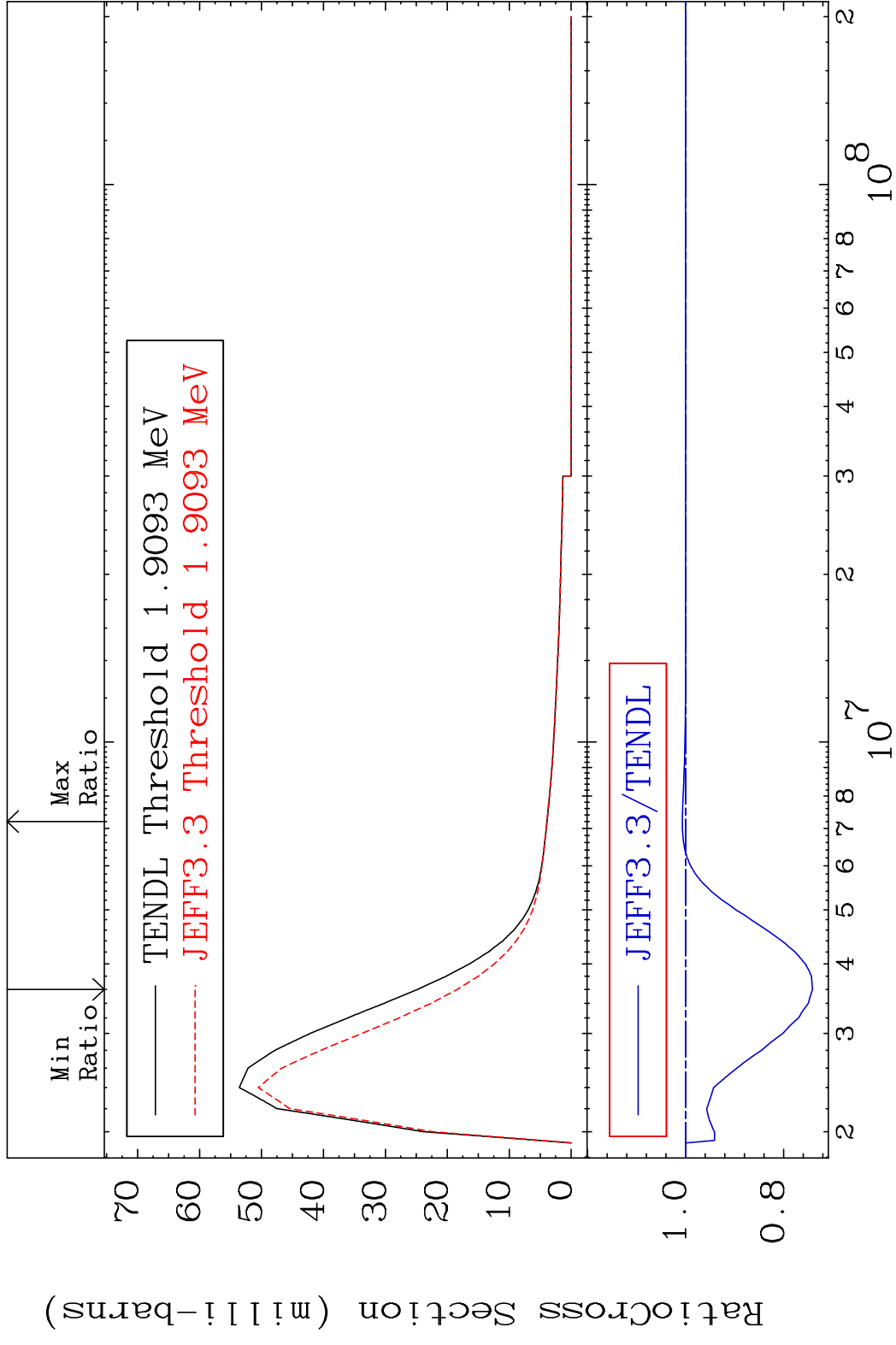


MAT 5137

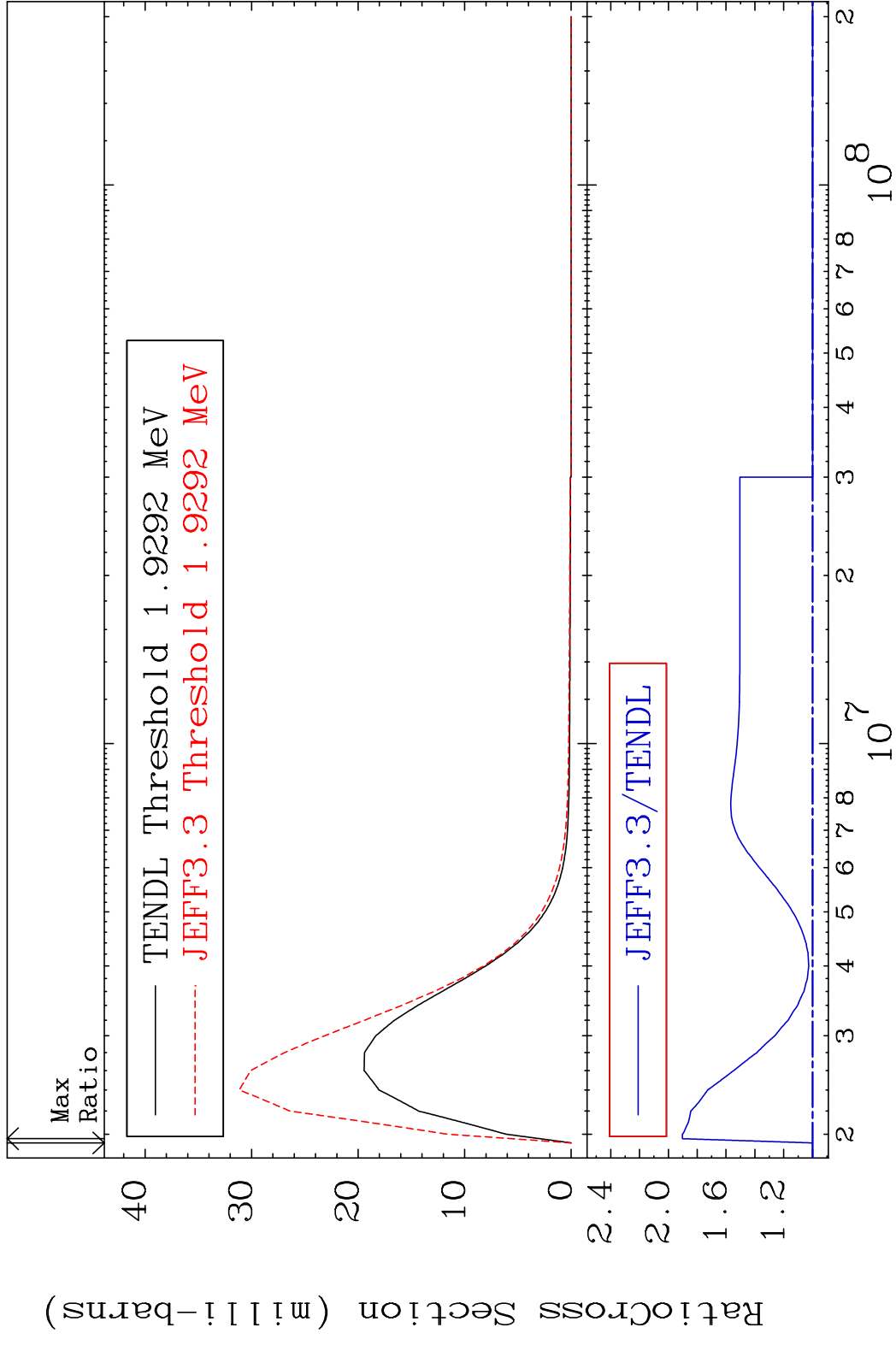
MT= 67 (n, n') Level

51-Sb-125

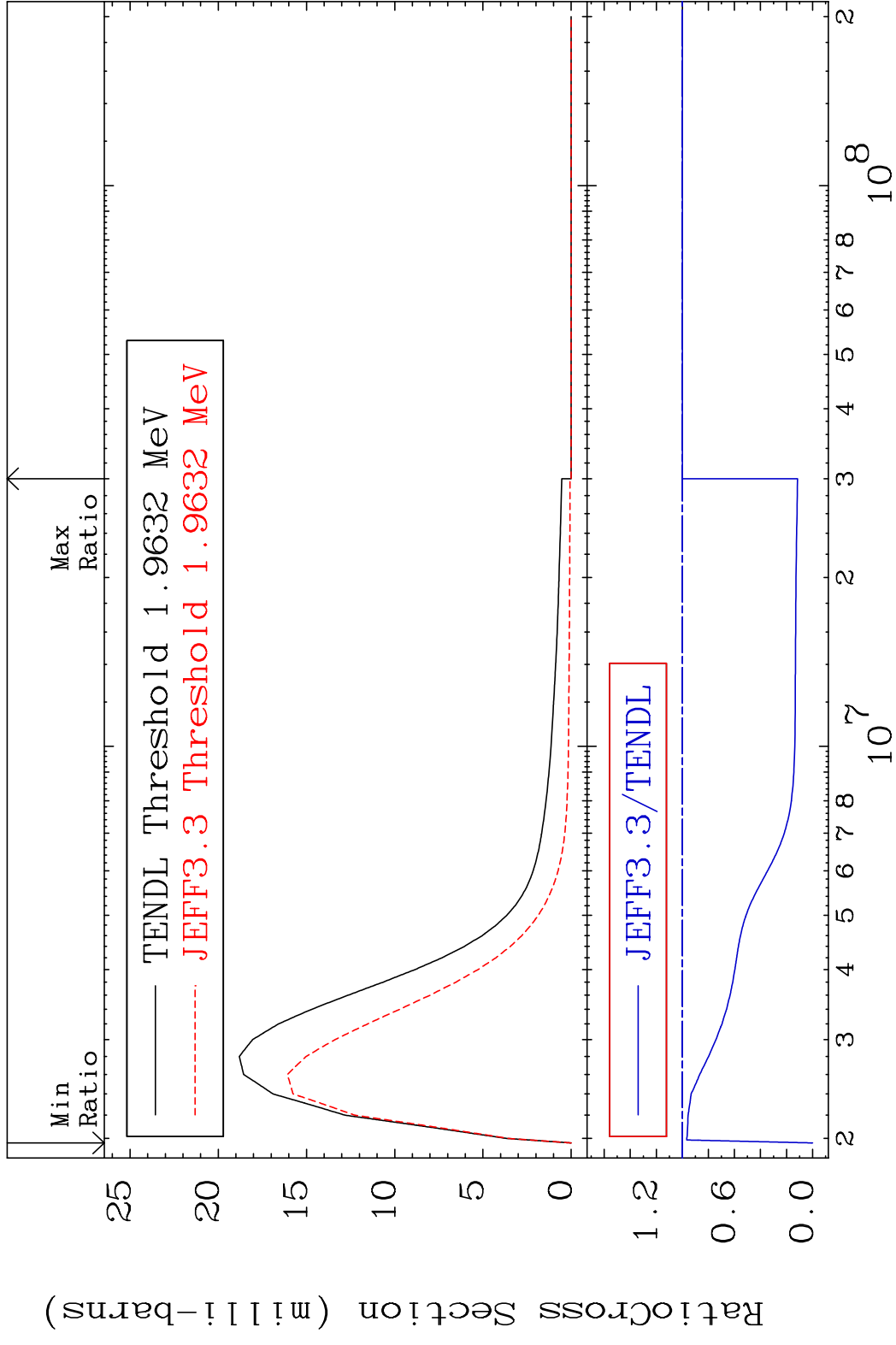
Cross Section -25.90 To 0.667 %



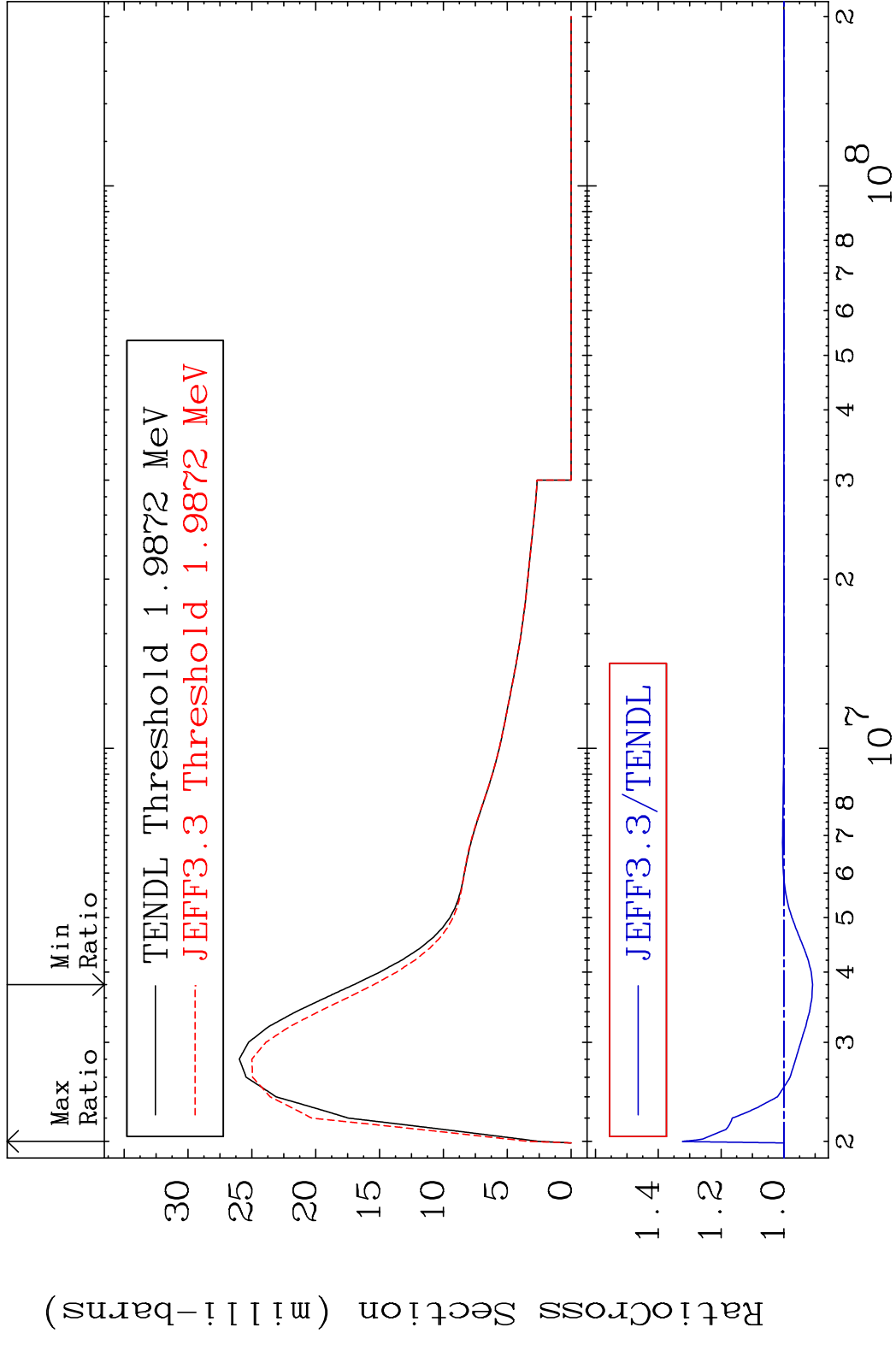
MAT 5137      MT= 68 (n, n') Level      51-Sb-125  
 Cross Section      0.000      To 90.30 %



MAT 5137 MT= 69 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 0.000 %



MAT 5137 MT= 70 (n,n') Level 51-Sb-125  
 Cross Section -9.151 To 32.33 %

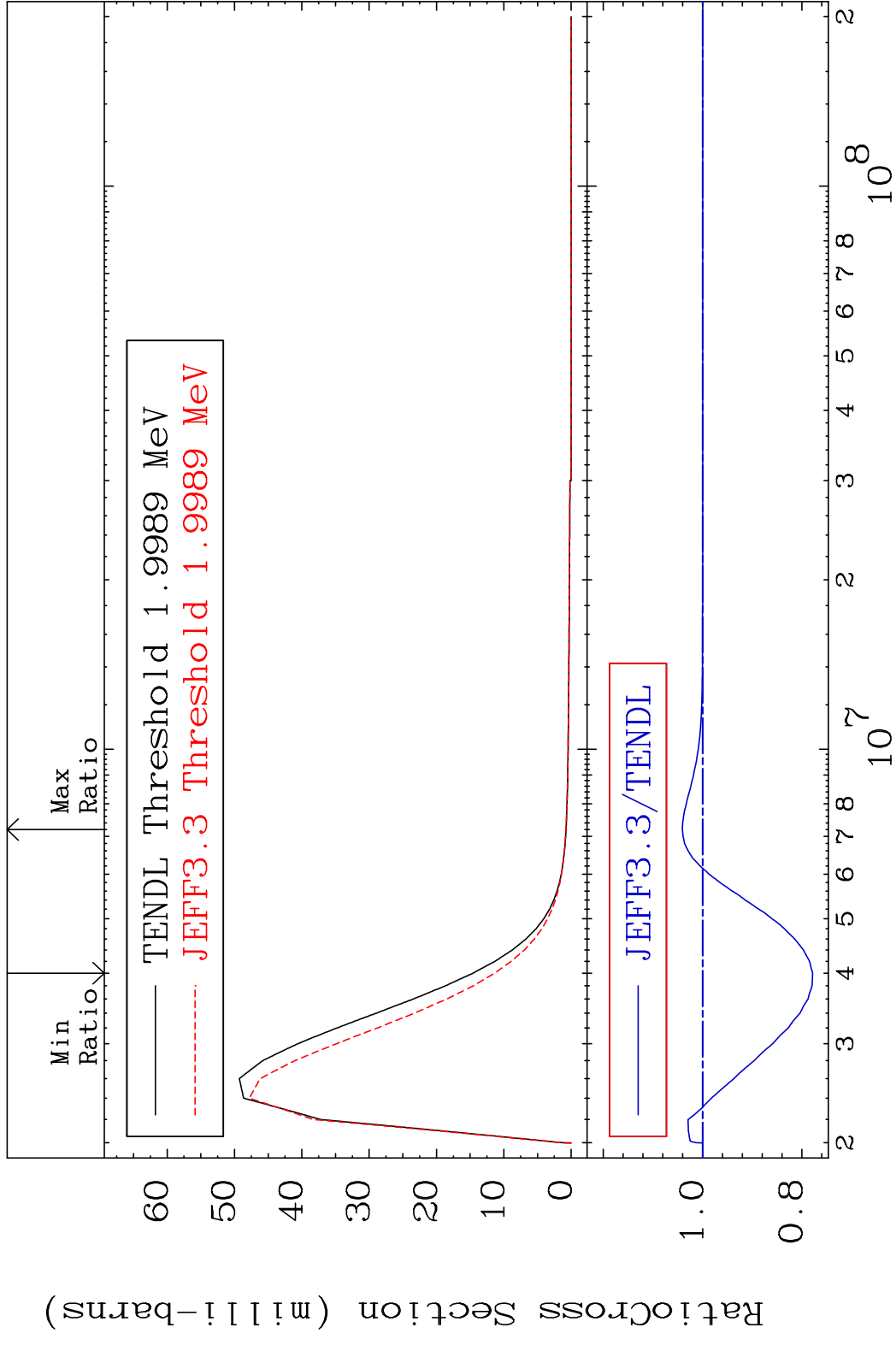


MAT 5137

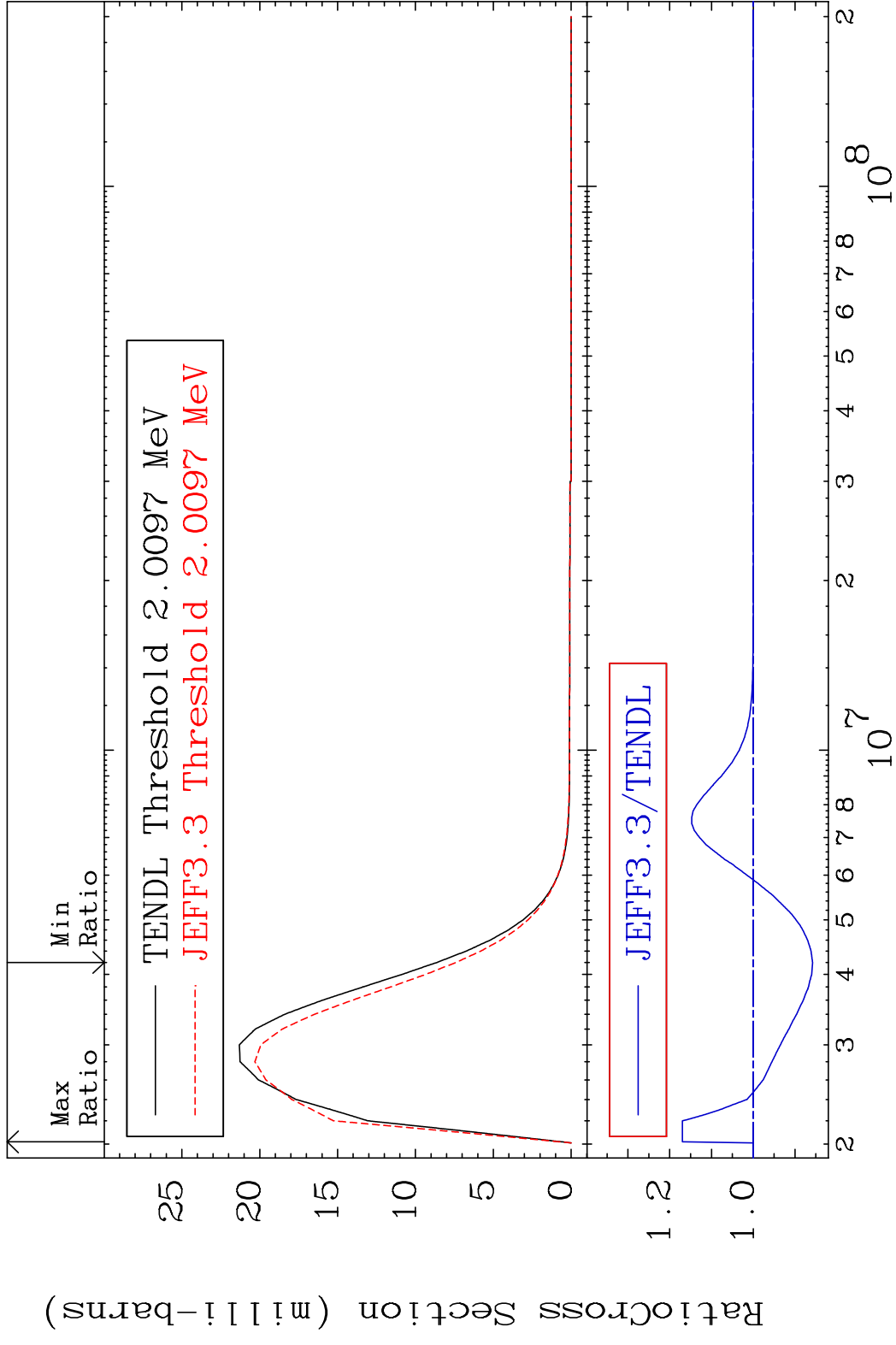
MT= 71 (n,n') Level

51-Sb-125

Cross Section -22.16 To 4.075 %

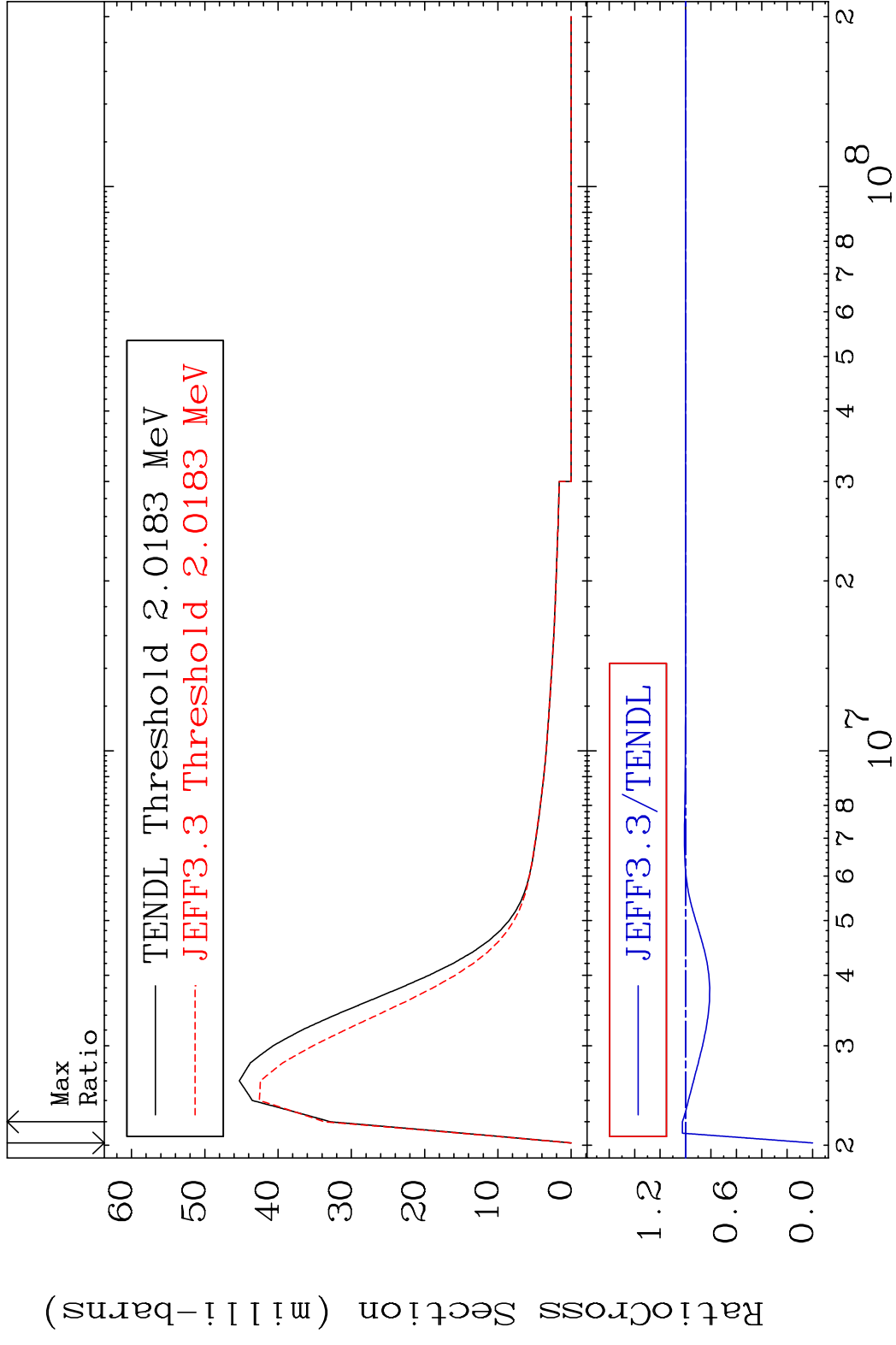


MAT 5137 MT= 72 (n, n') Level 51-Sb-125  
 Cross Section -14.21 To 16.97 %



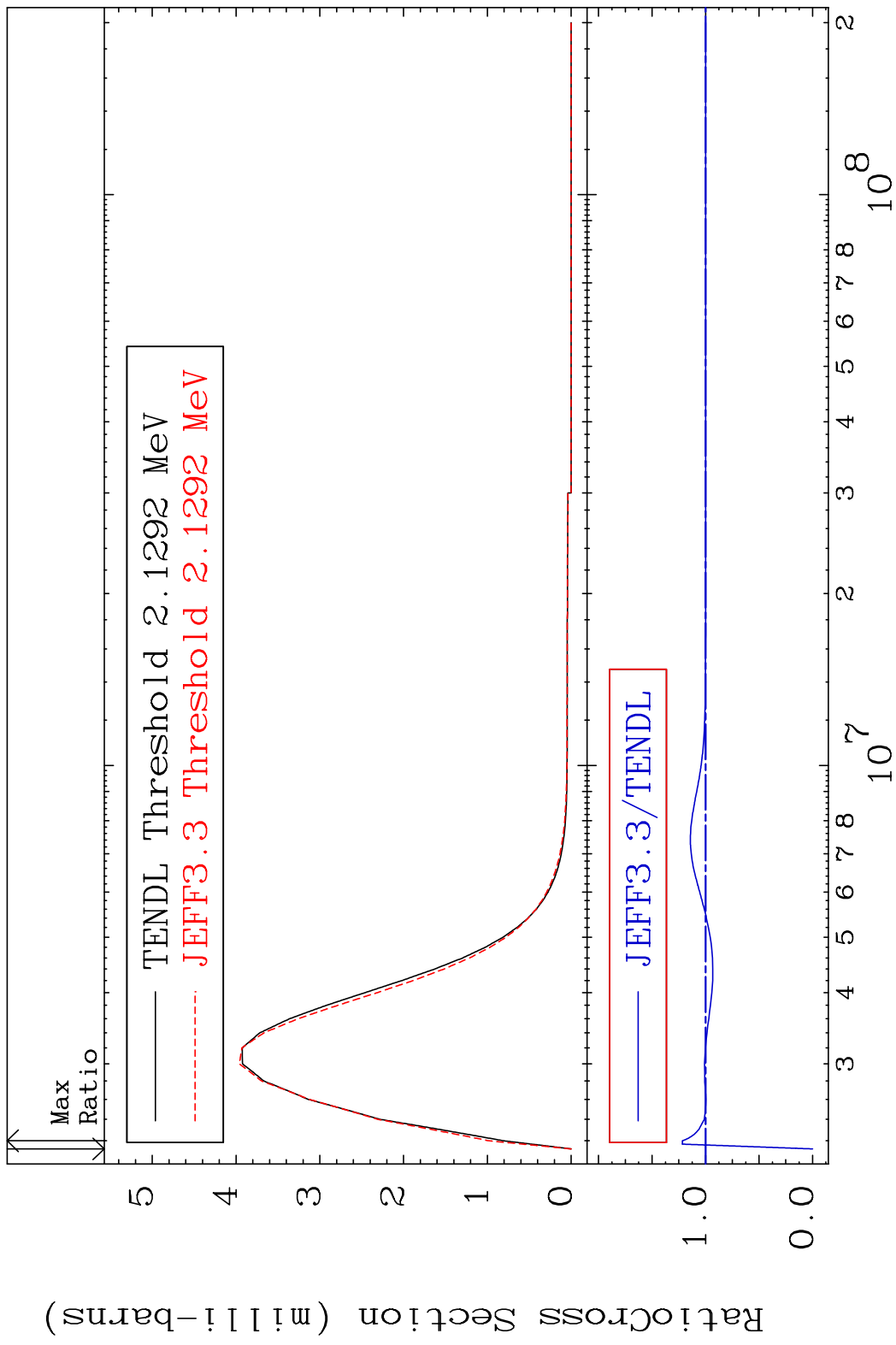


MAT 5137 MT= 73 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 2.486 %

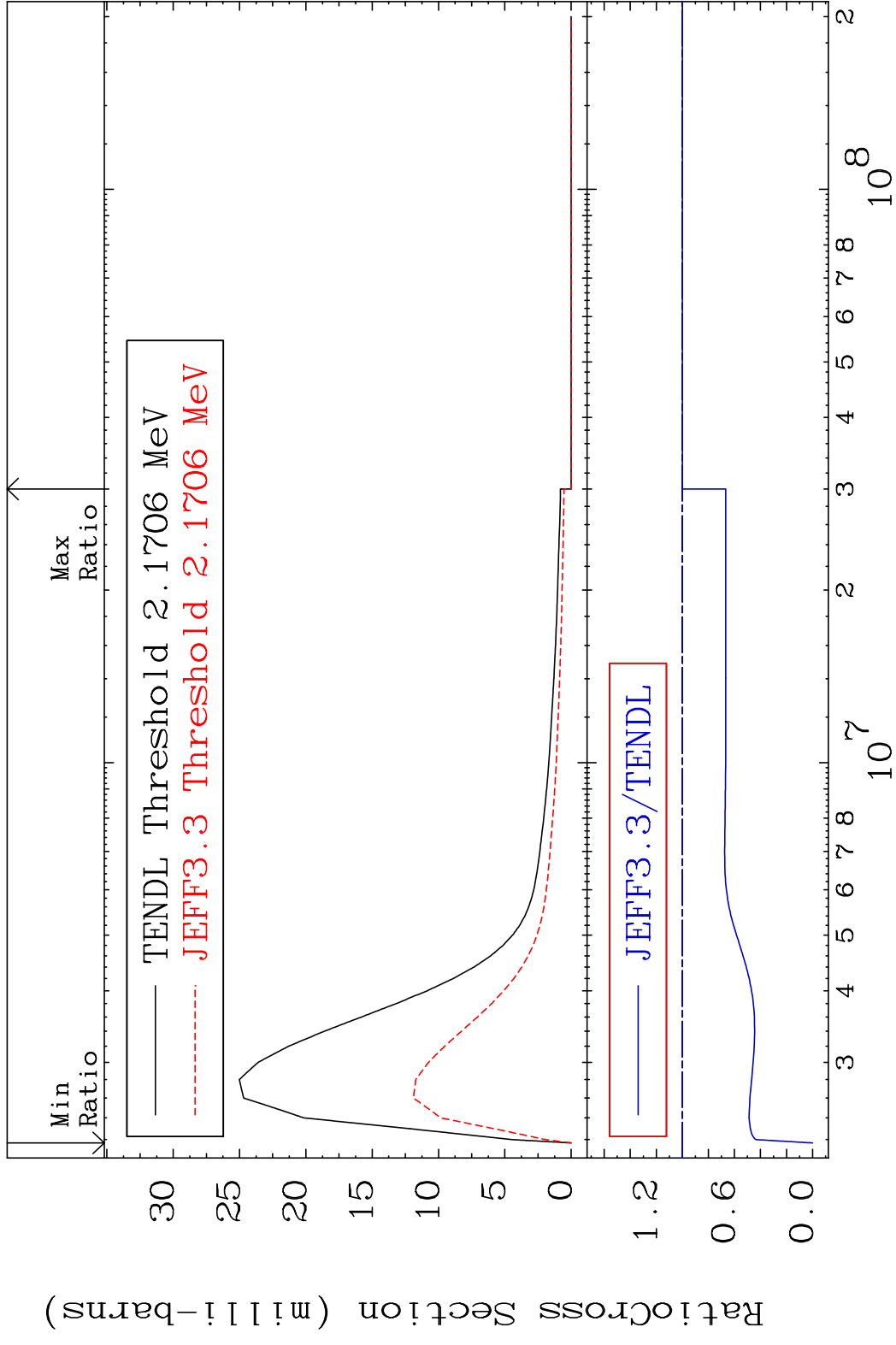


40 Incident Energy (eV) 51-Sb-125

MAT 5137 MT= 74 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 21.68 %

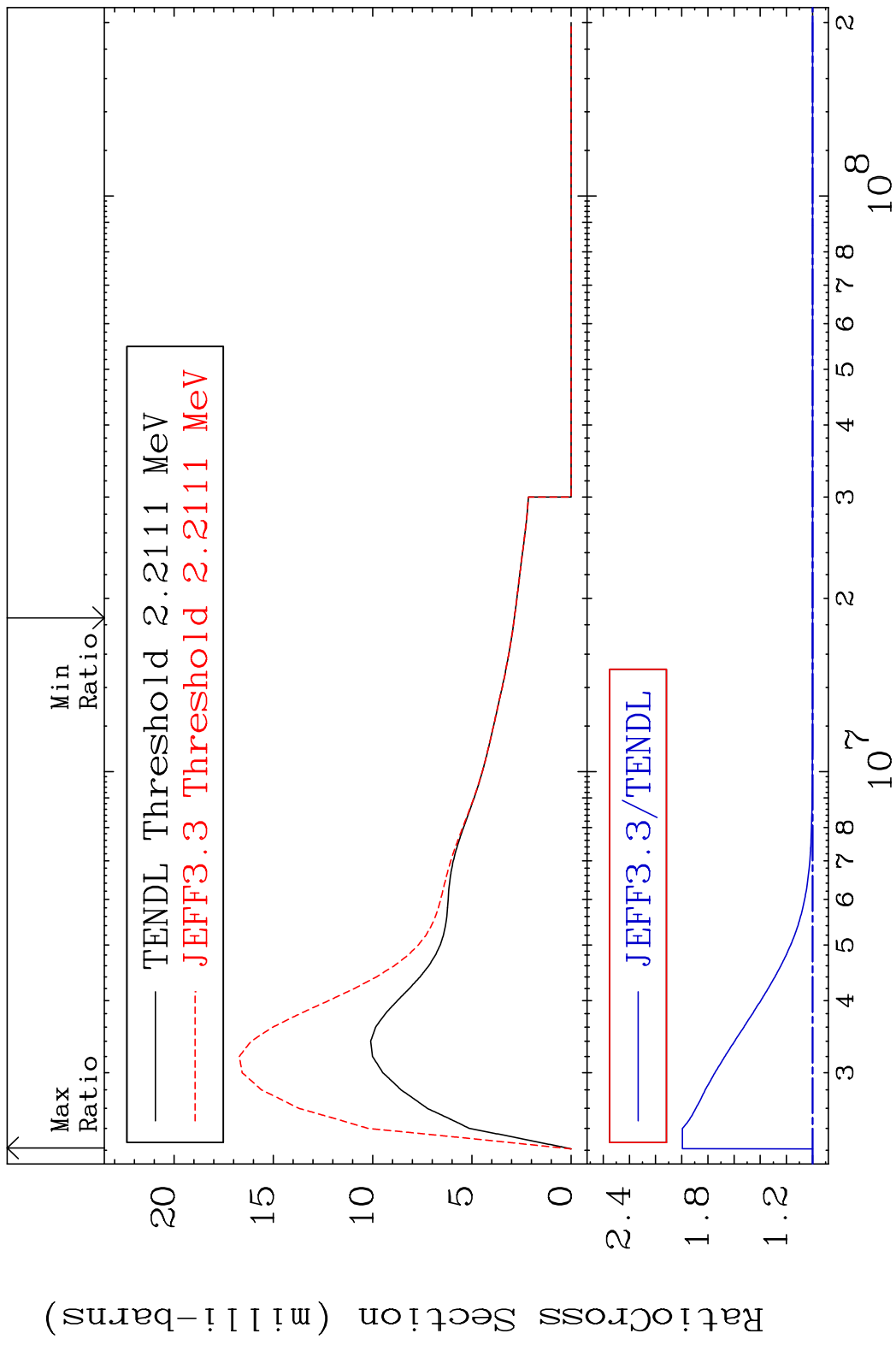


MAT 5137 MT= 75 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 0.000 %

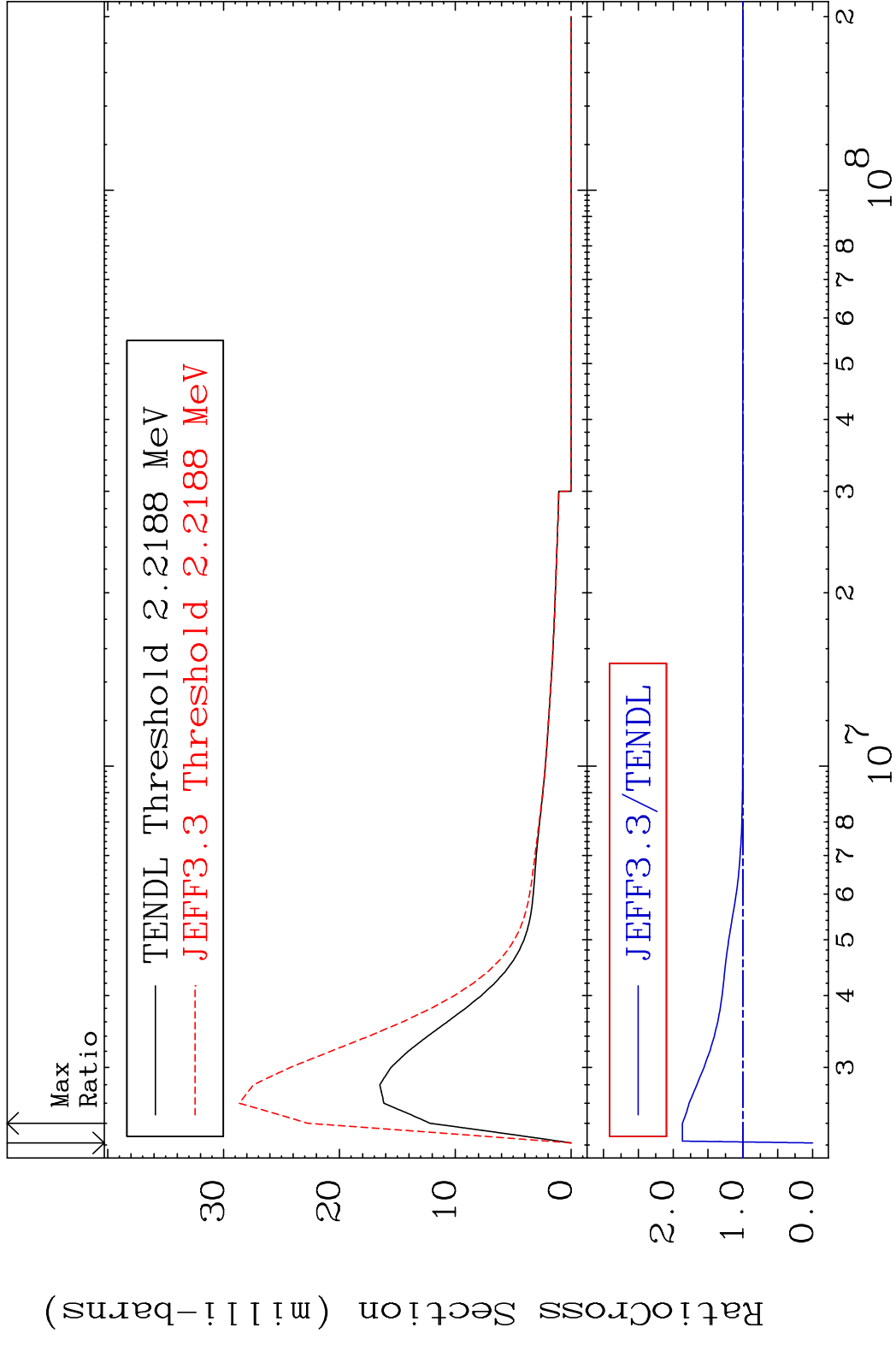


42 Incident Energy (eV) 51-Sb-125

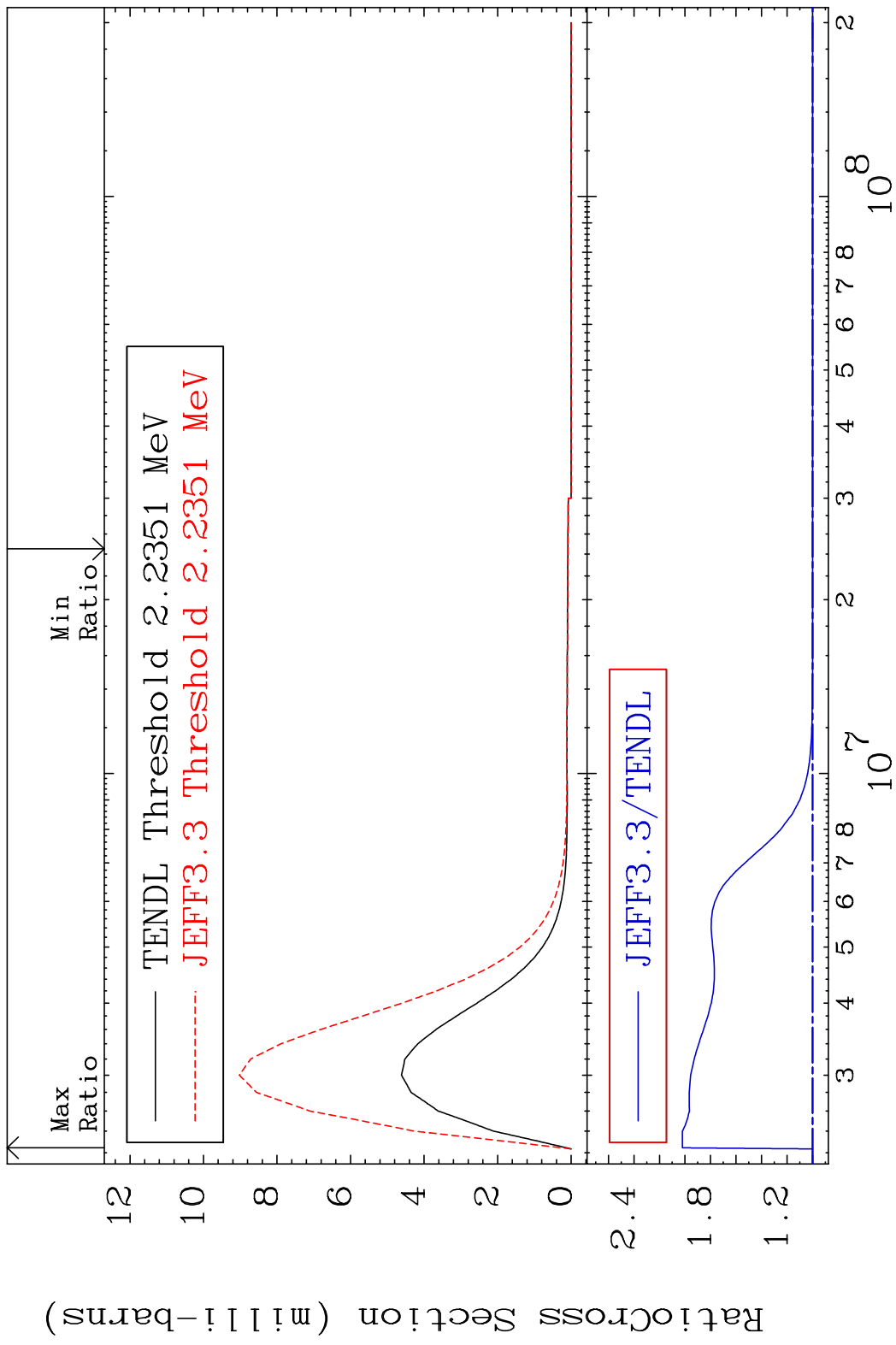
MAT 5137 MT= 76 (n,n') Level 51-Sb-125  
 Cross Section 0.000 To 99.53 %



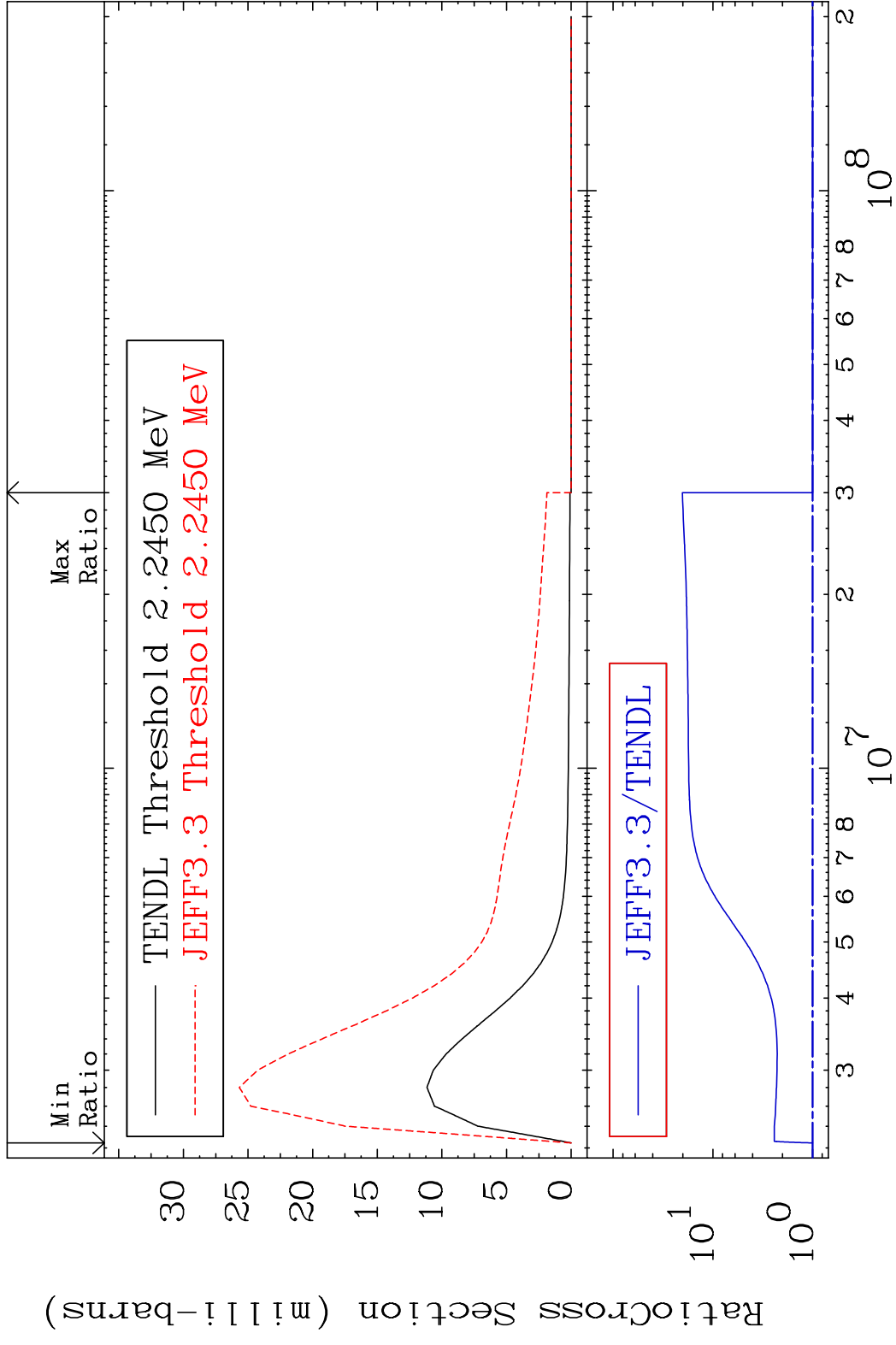
MAT 5137 MT= 77 (n, n') Level 51-Sb-125  
 Cross Section -100.0 To 86.87 %



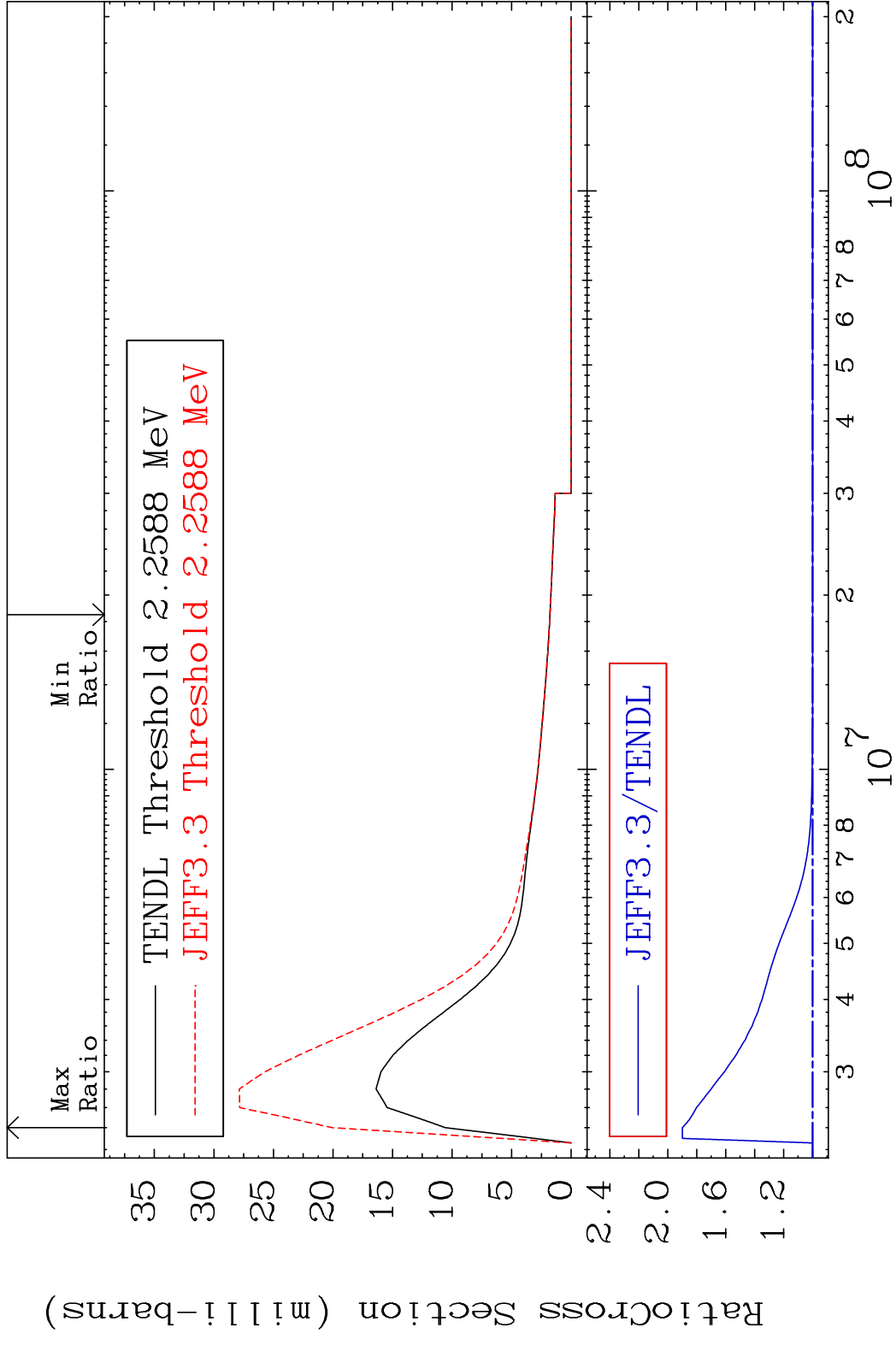
MAT 5137 MT= 78 (n,n') Level 51-Sb-125  
 Cross Section 0.000 To 102.1 %



MAT 5137 MT= 79 (n, n') Level 51-Sb-125  
 Cross Section 0.000 To 1922. %



MAT 5137 MT= 80 (n,n') Level 51-Sb-125  
 Cross Section 0.000 To 89.90 %



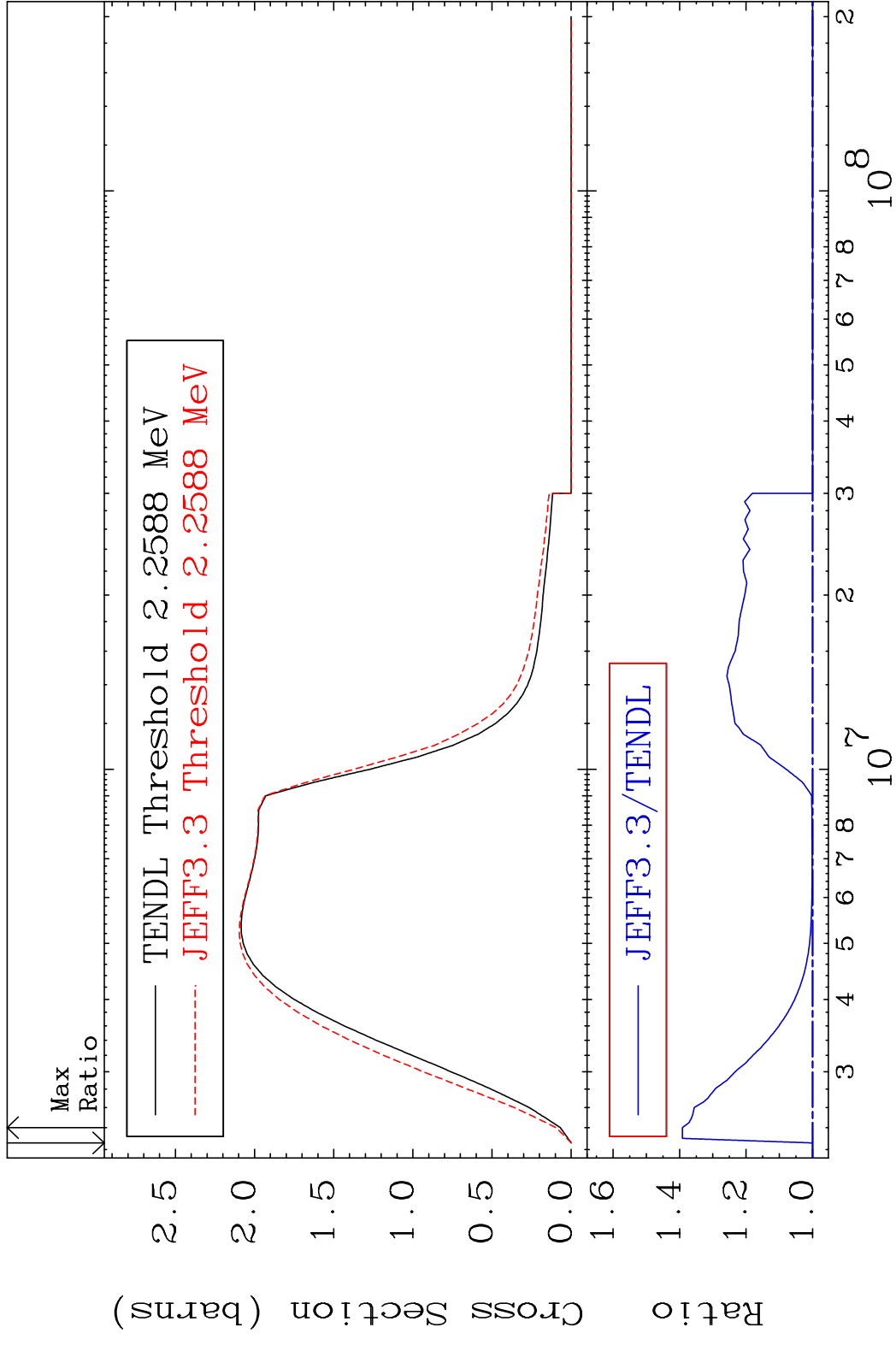


MAT 5137

(n,n') Continuum

51-Sb-125

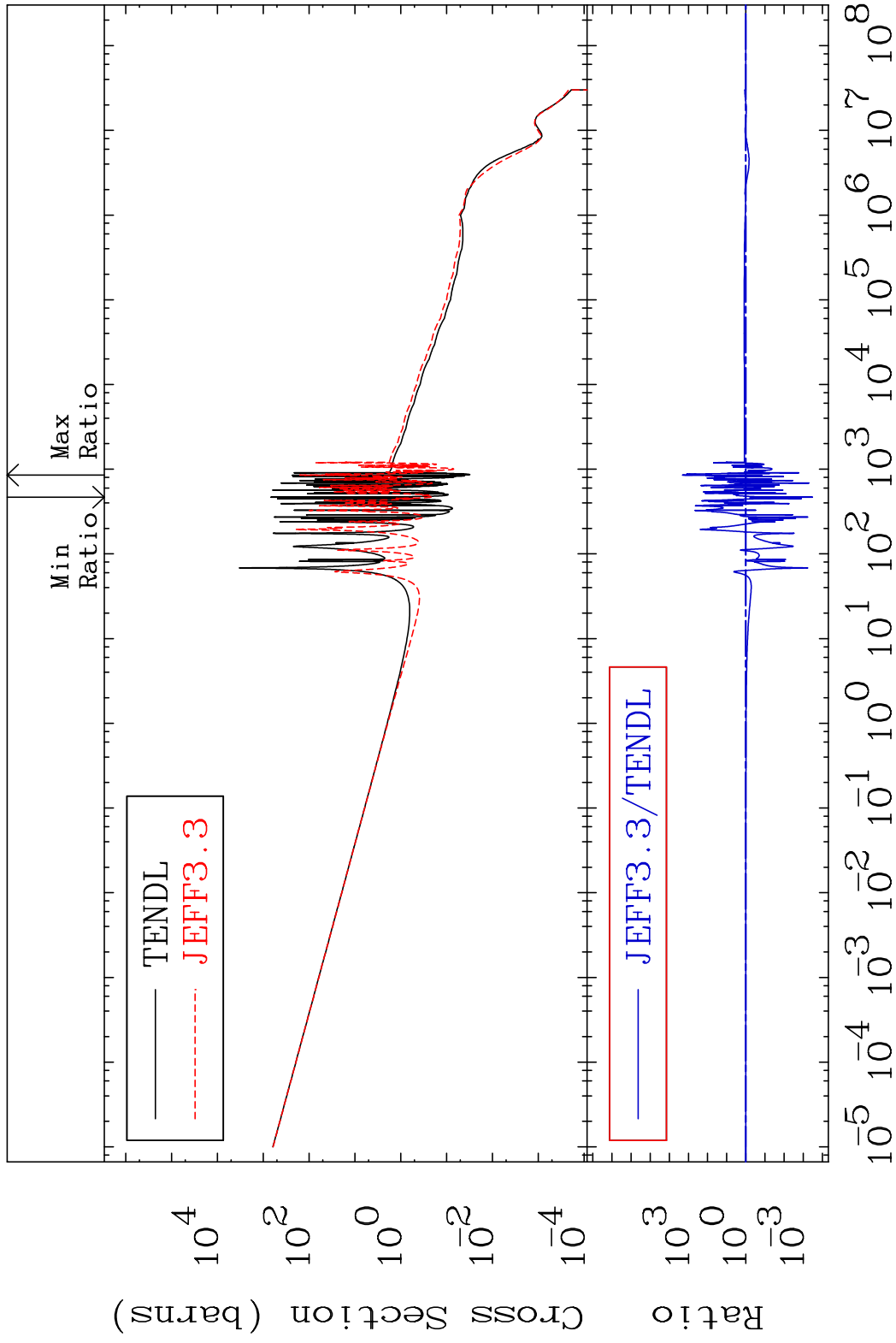
Cross Section 0.000 To 39.17 %



MAT 5137

(n,  $\gamma$ )  
Cross Section -99.97 To 9999. %

51-Sb-125



49

Incident Energy (eV)

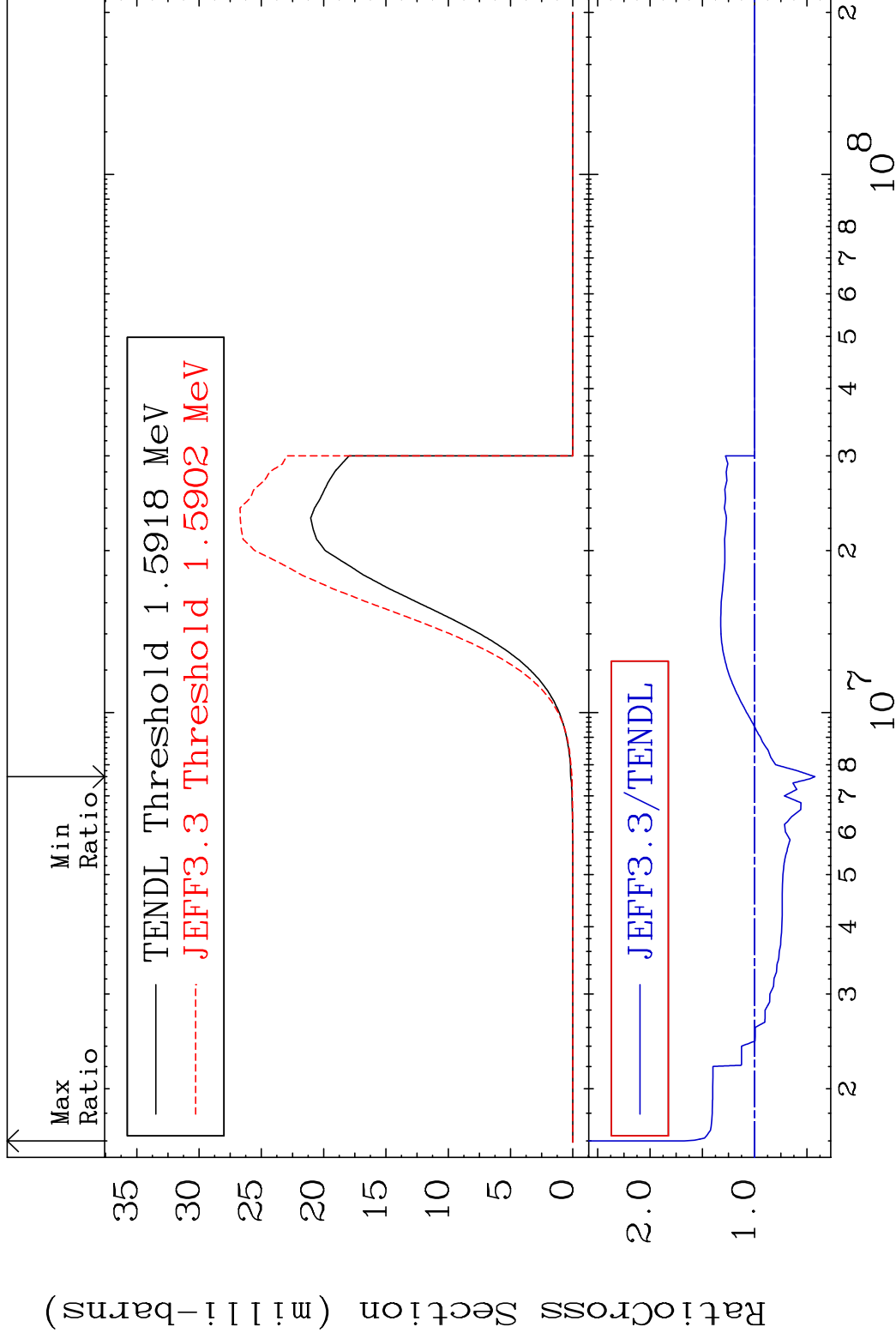
51-Sb-125

MAT 5137

(n,p)

51-Sb-125

Cross Section -57.61 To 67.21 %



50

Incident Energy (eV)

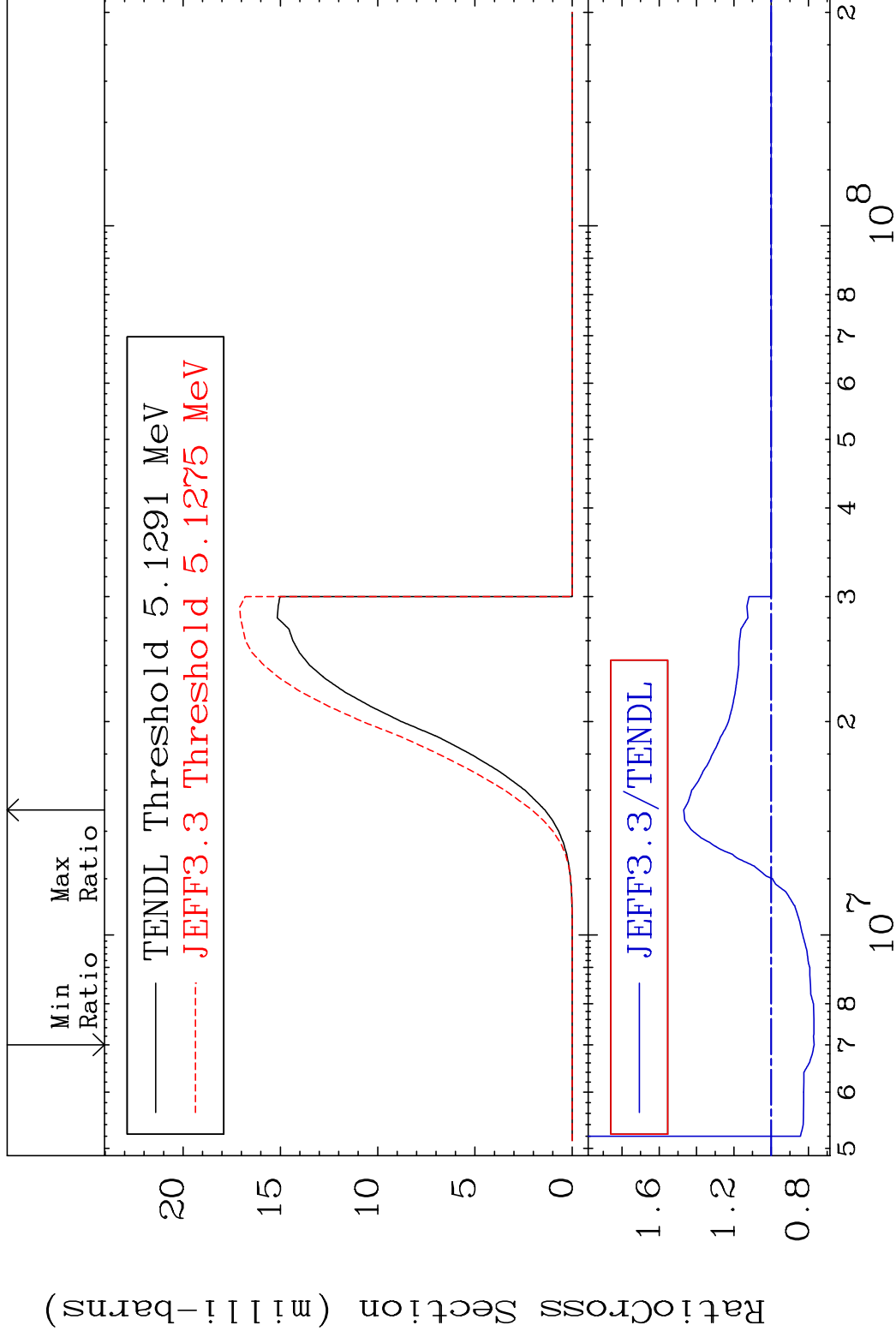
51-Sb-125

MAT 5137

(n, d)

51-Sb-125

Cross Section -23.01 To 46.91 %



51

Incident Energy (eV)

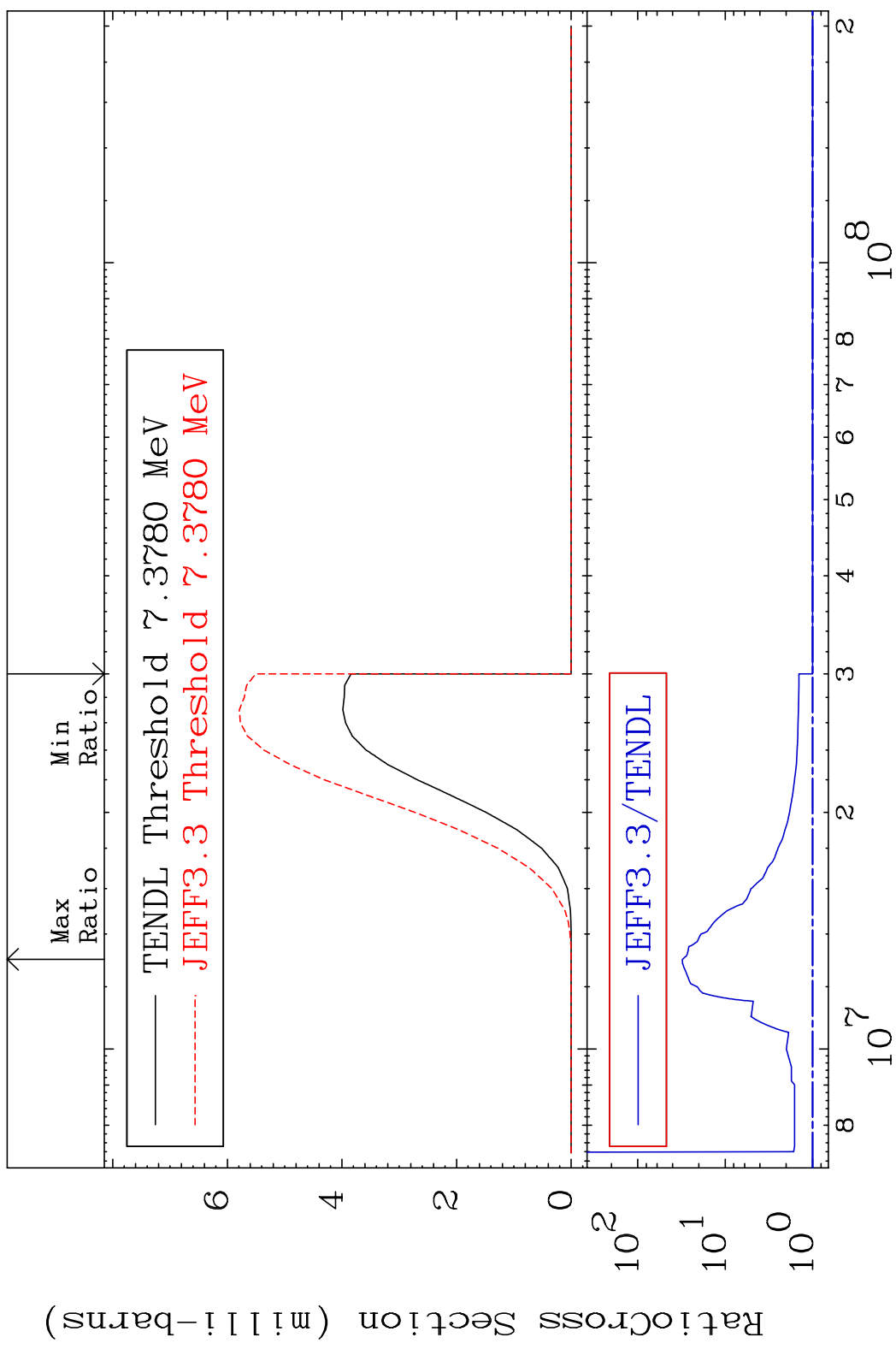
51-Sb-125

MAT 5137

(n, t)

51-Sb-125

Cross Section 0.000 To 2990. %

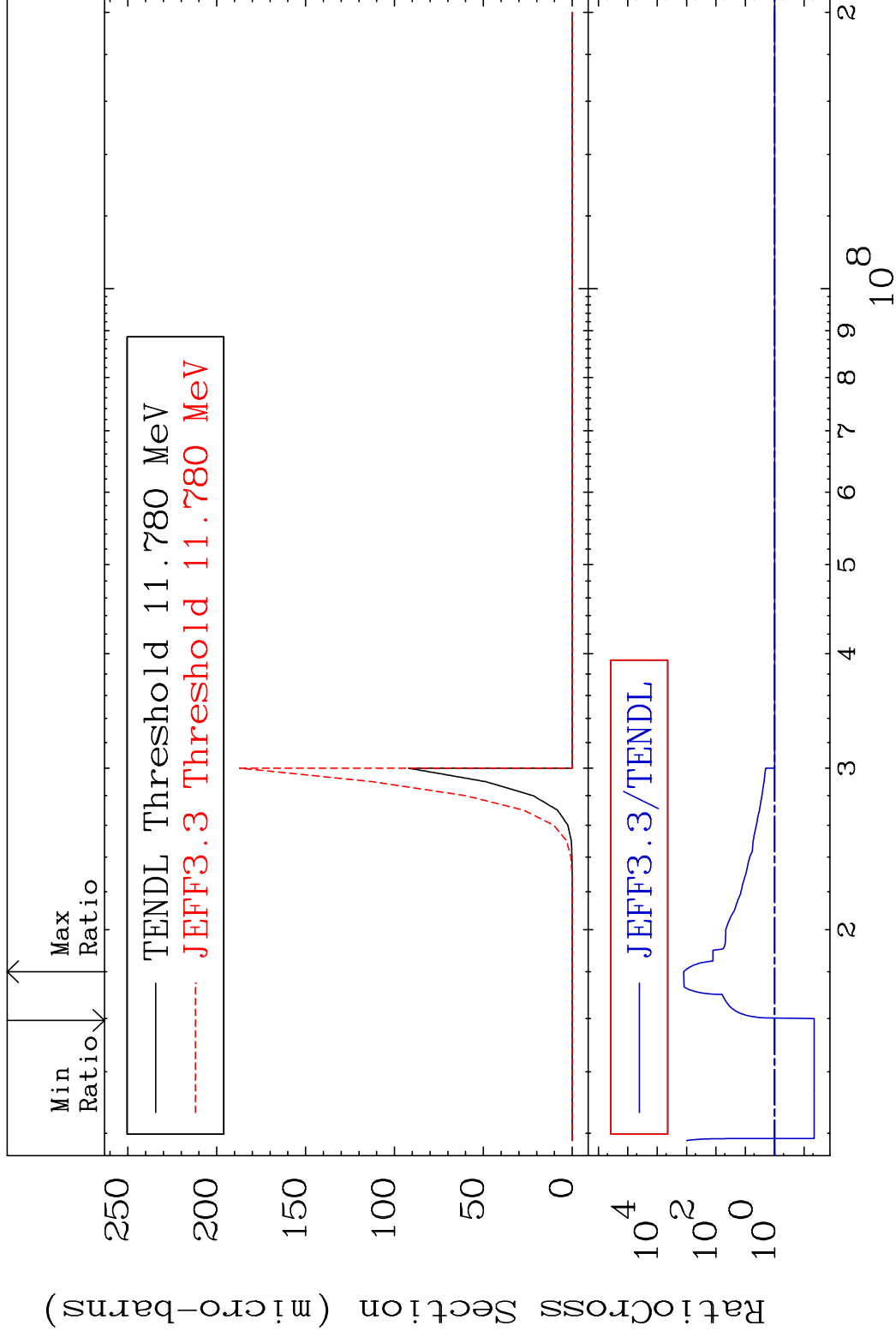


MAT 5137

(n, He-3)

51-Sb-125

Cross Section -95.44 To 9999. %



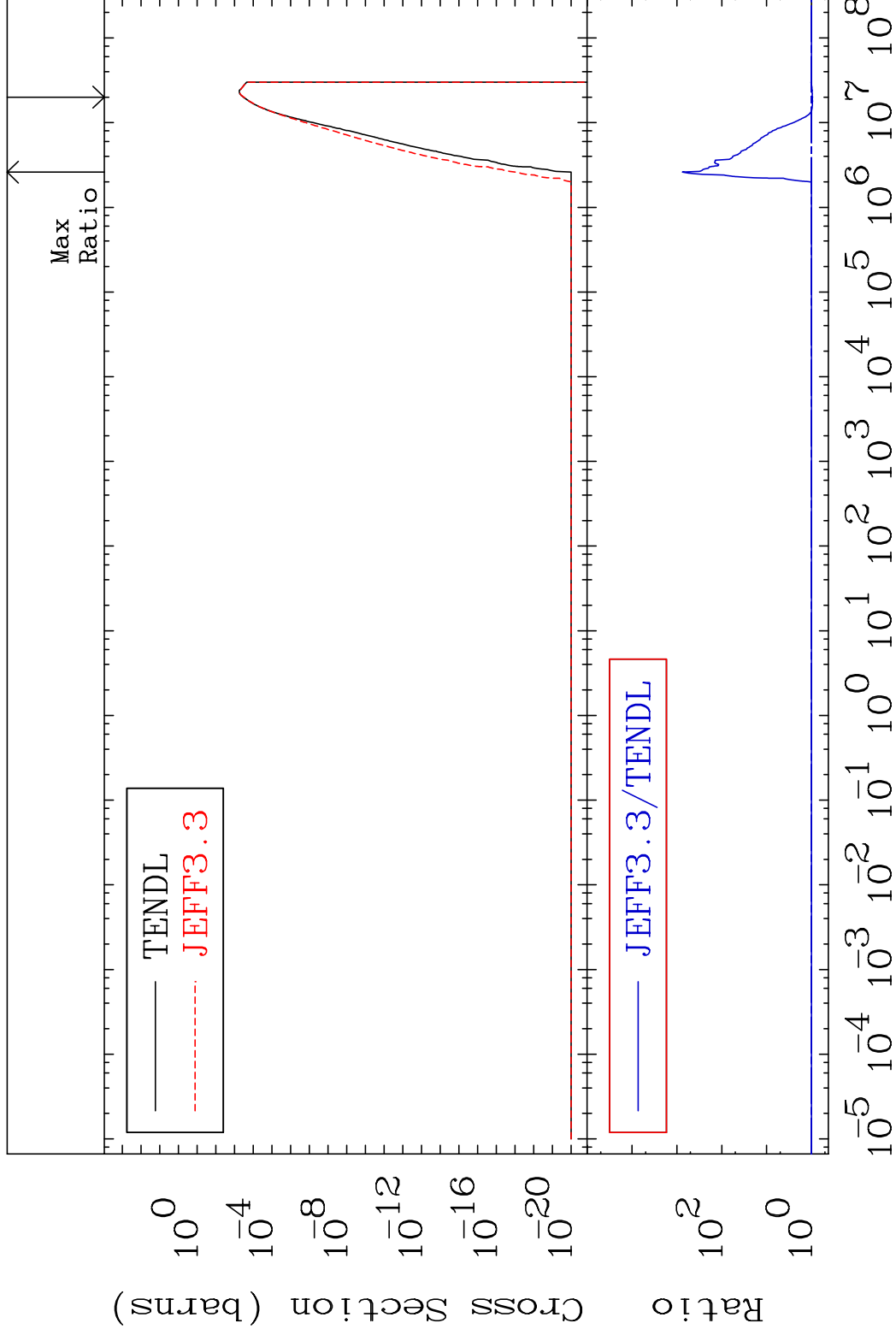
MAT 5137

(n,  $\alpha$ )

51-Sb-125

Cross Section

-5.367 To 9999. %

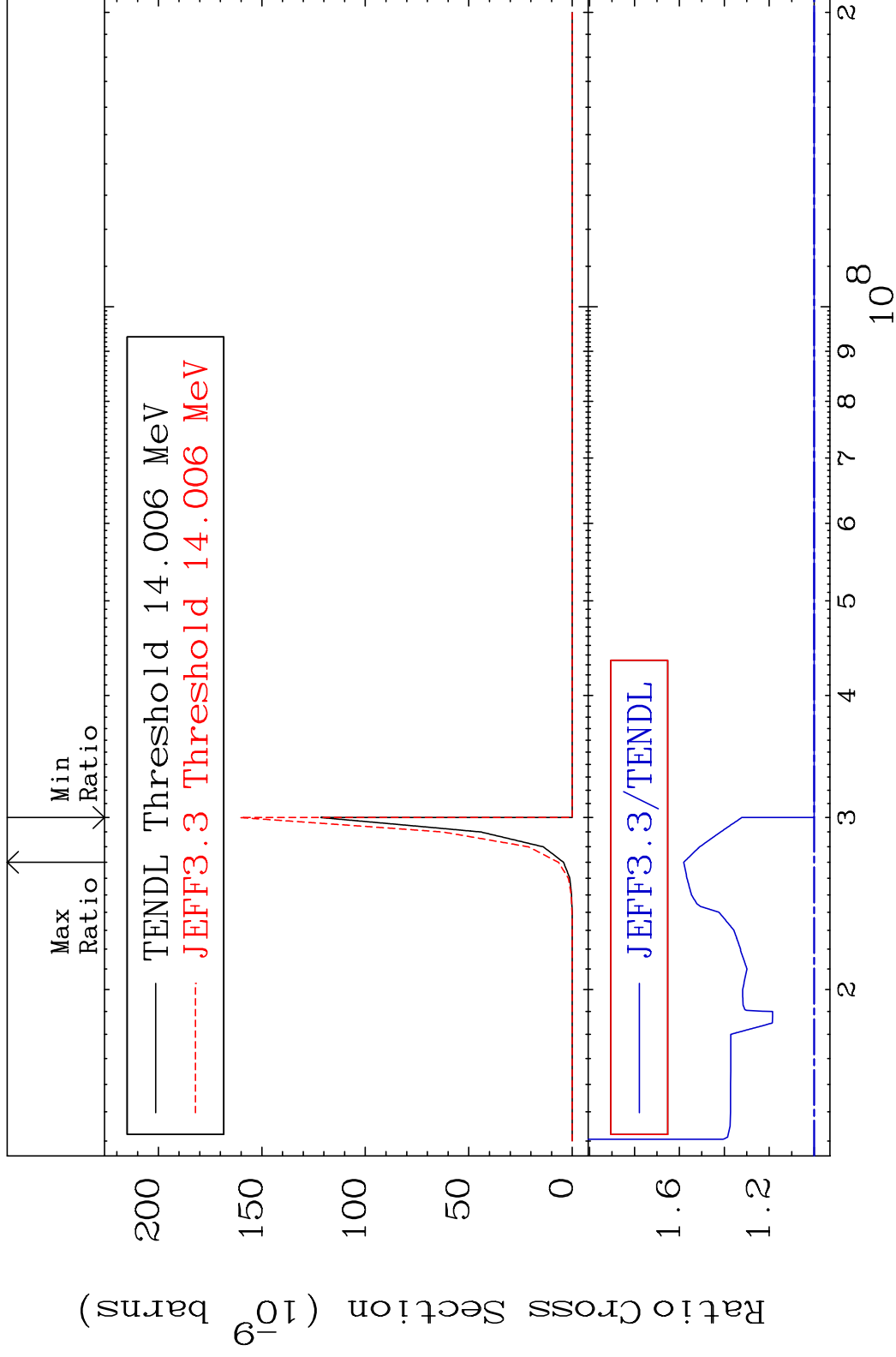


MAT 5137

(n,2p)

51-Sb-125

Cross Section 0.000 To 58.10 %



55

Incident Energy (eV)

51-Sb-125

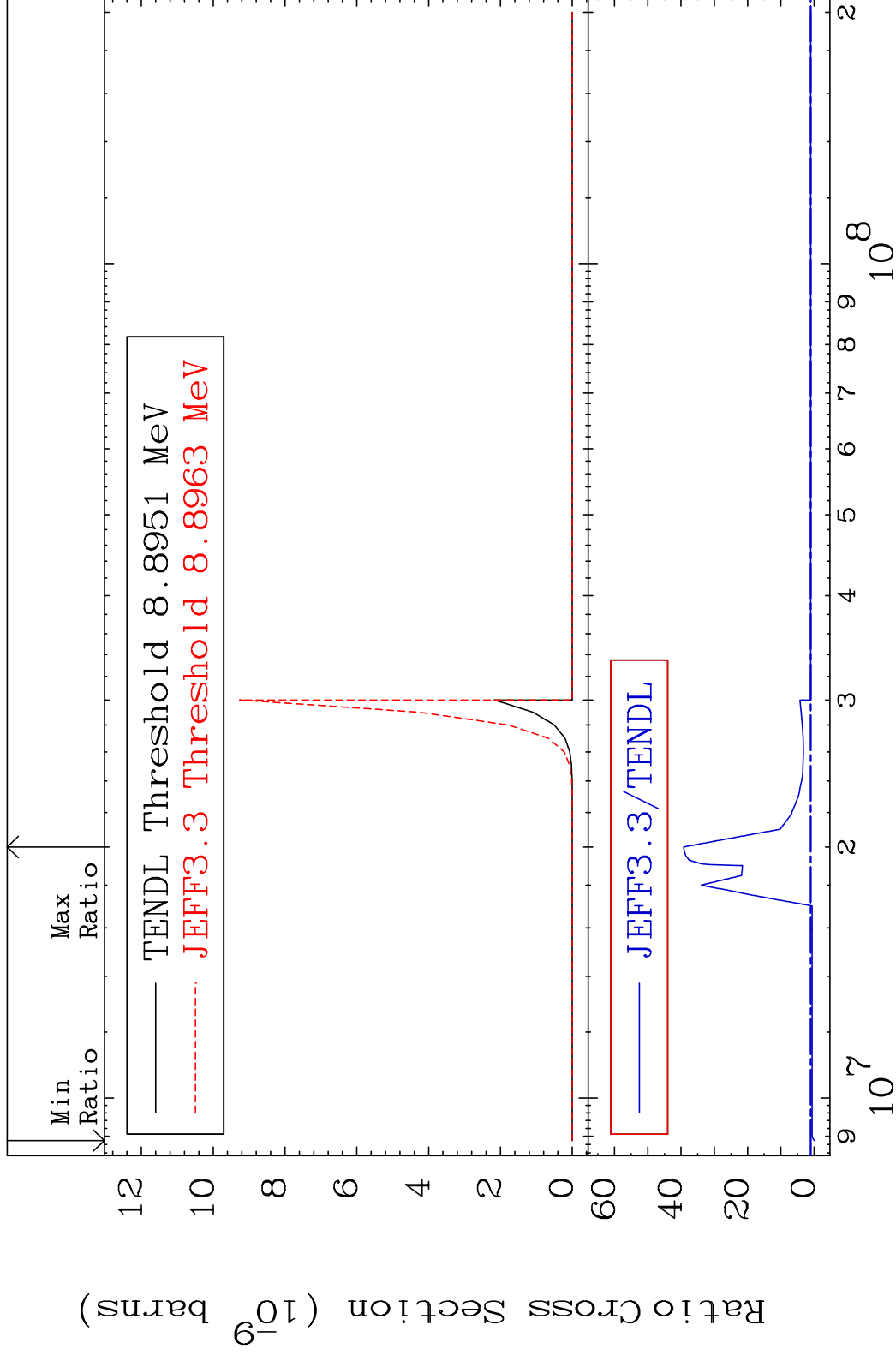


MAT 5137

(n,p)  $\alpha$

51-Sb-125

Cross Section -100.0 To 3821. %



56

Incident Energy (eV)

51-Sb-125

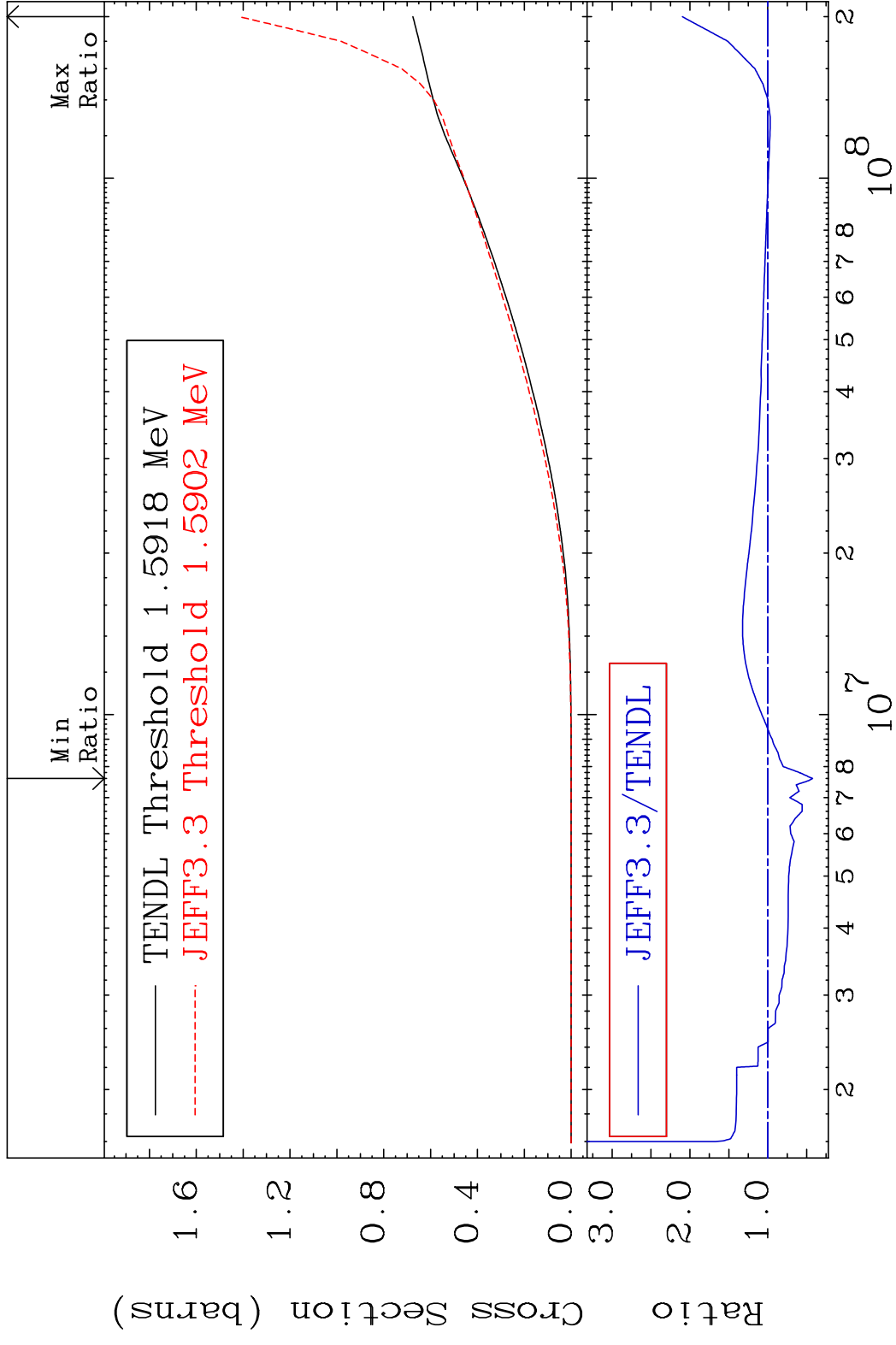
MAT 5137

Hydrogen Production

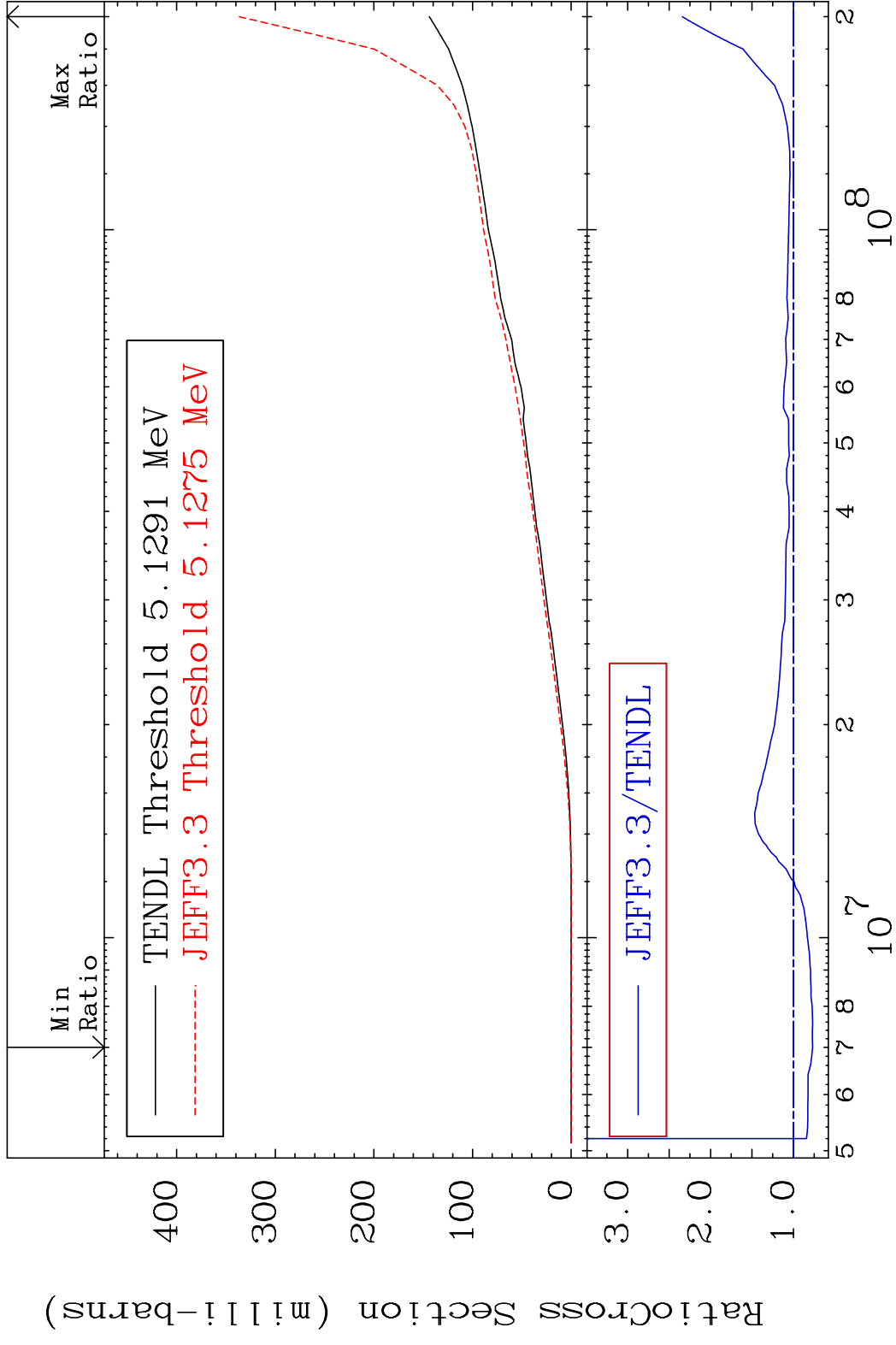
51-Sb-125

Cross Section

-57.61 To 109.7 %



Cross Section -23.01 To 134.0 %

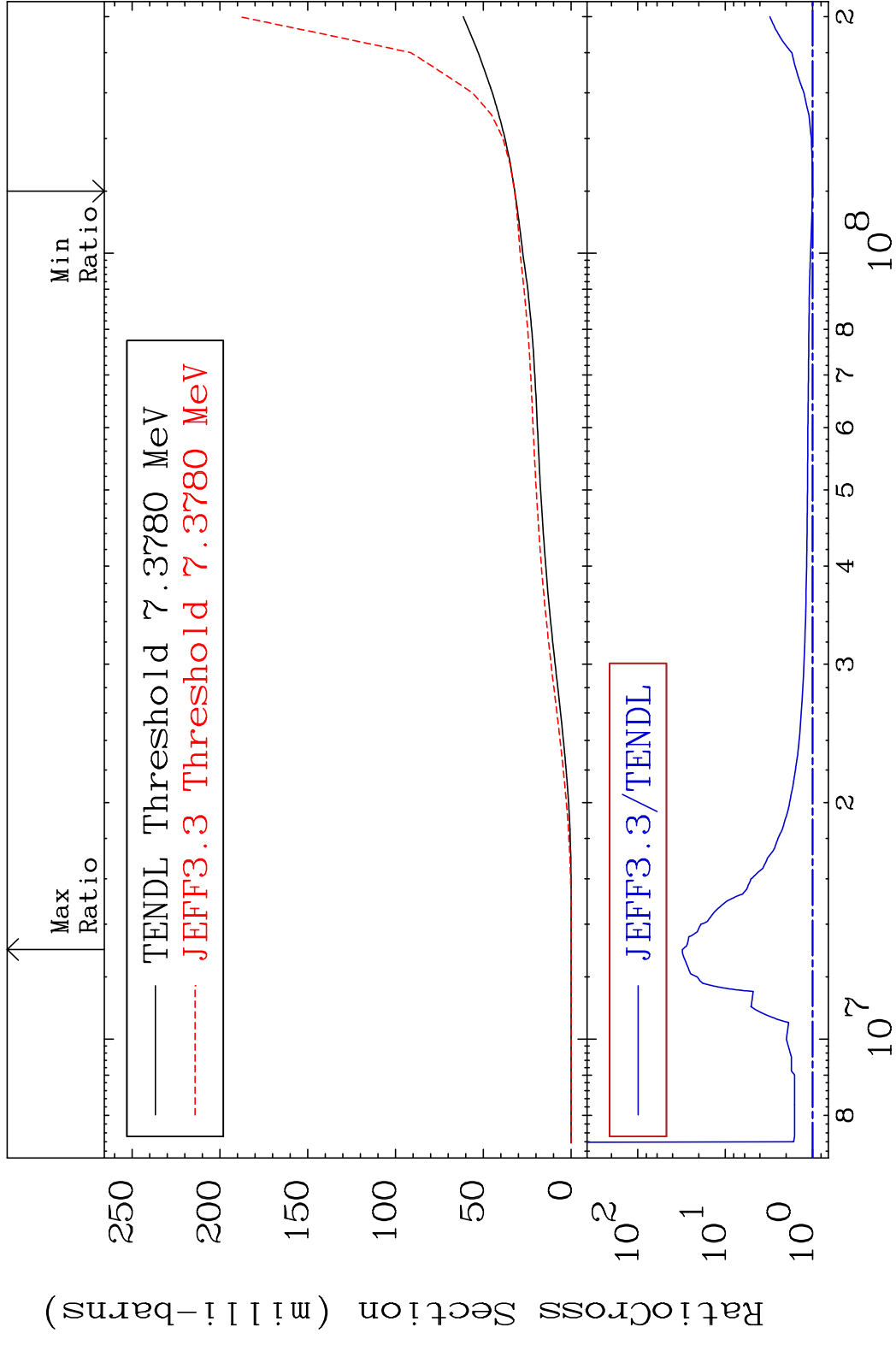


MAT 5137

Tritium Production

51-Sb-125

Cross Section -0.037 To 2990. %

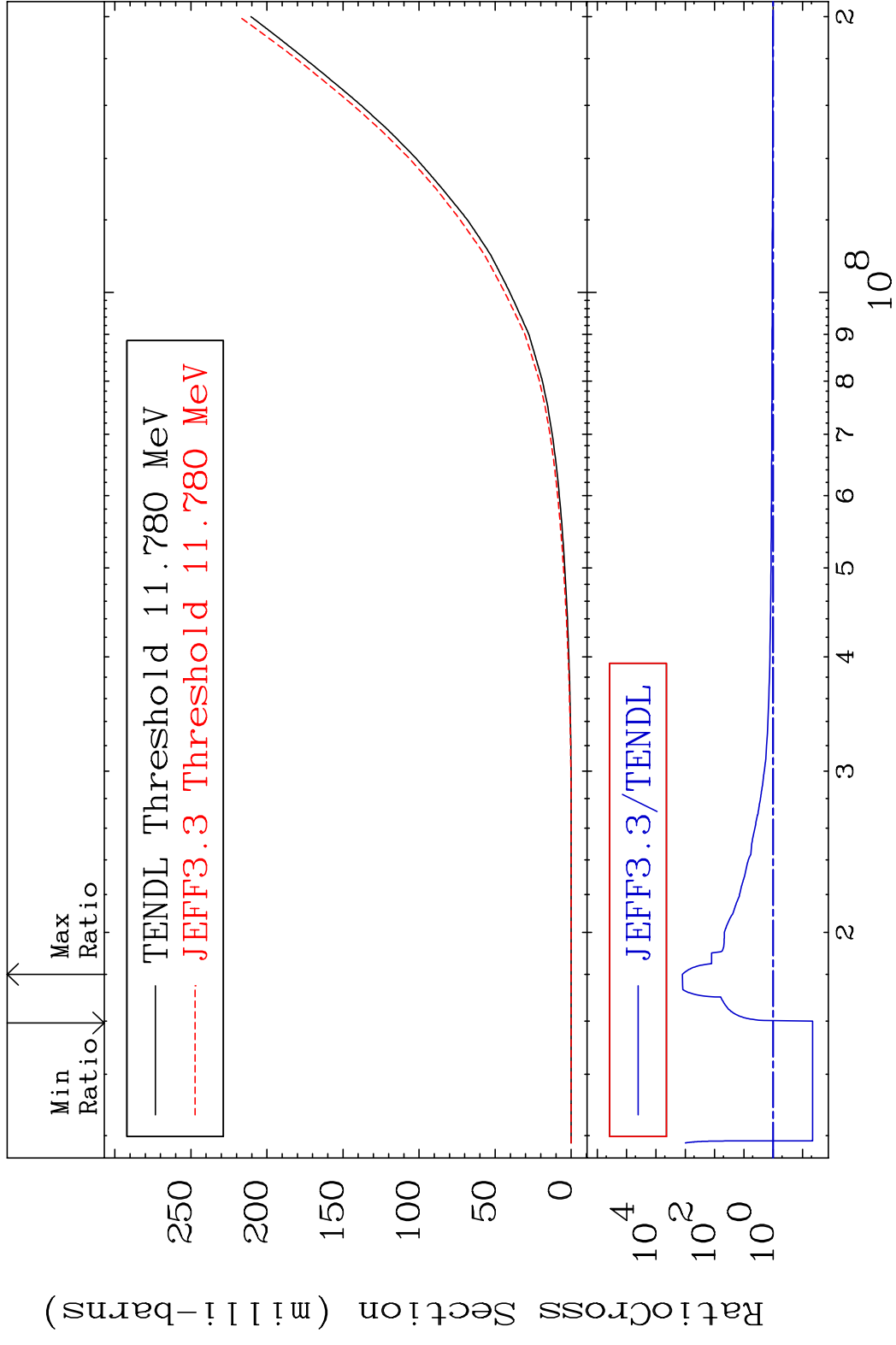


MAT 5137

He-3 Production

51-Sb-125

Cross Section -95.44 To 9999. %



60

Incident Energy (eV)

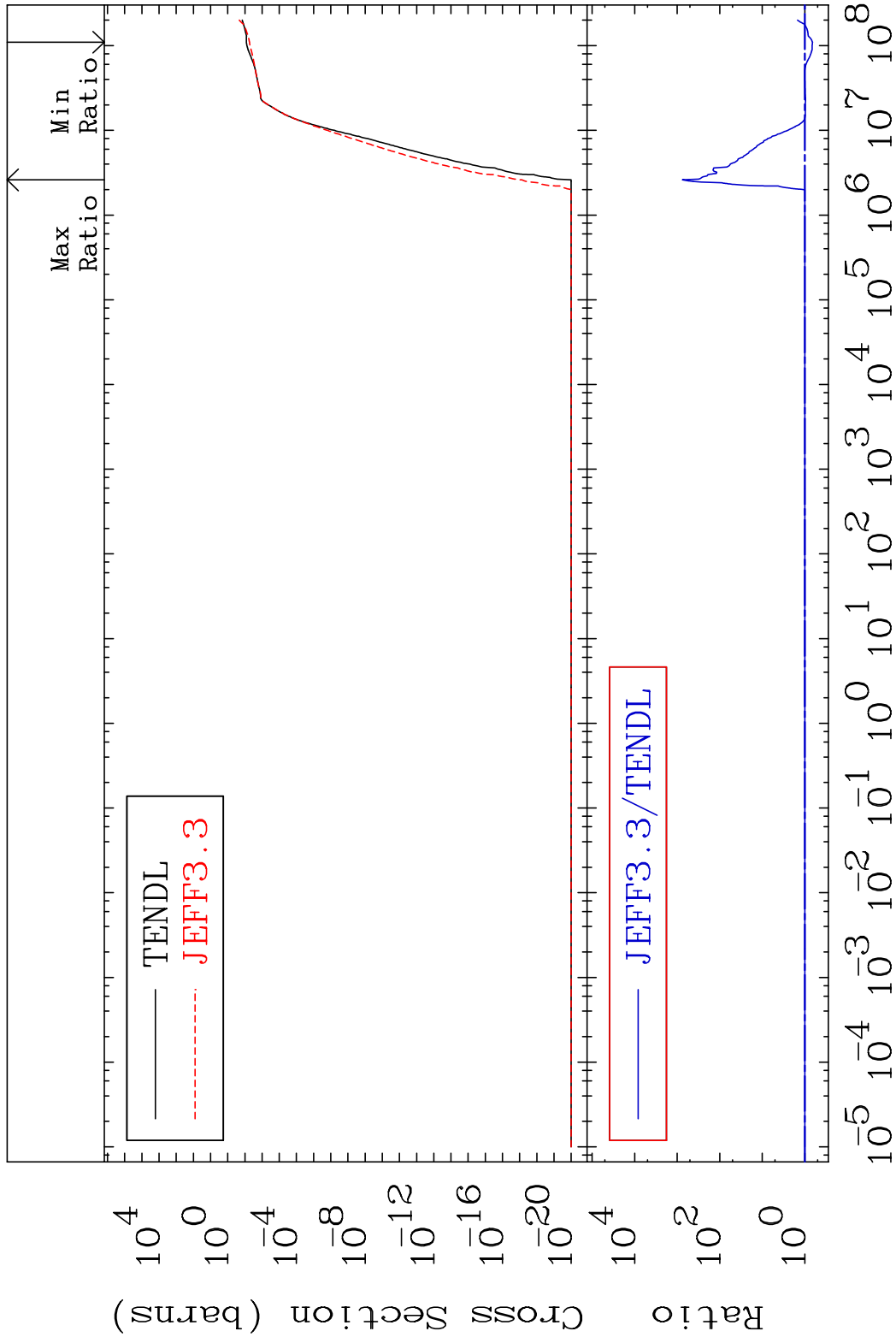
51-Sb-125

MAT 5137

He-4 Production

51-Sb-125

Cross Section -34.30 To 9999. %



61

Incident Energy (eV)

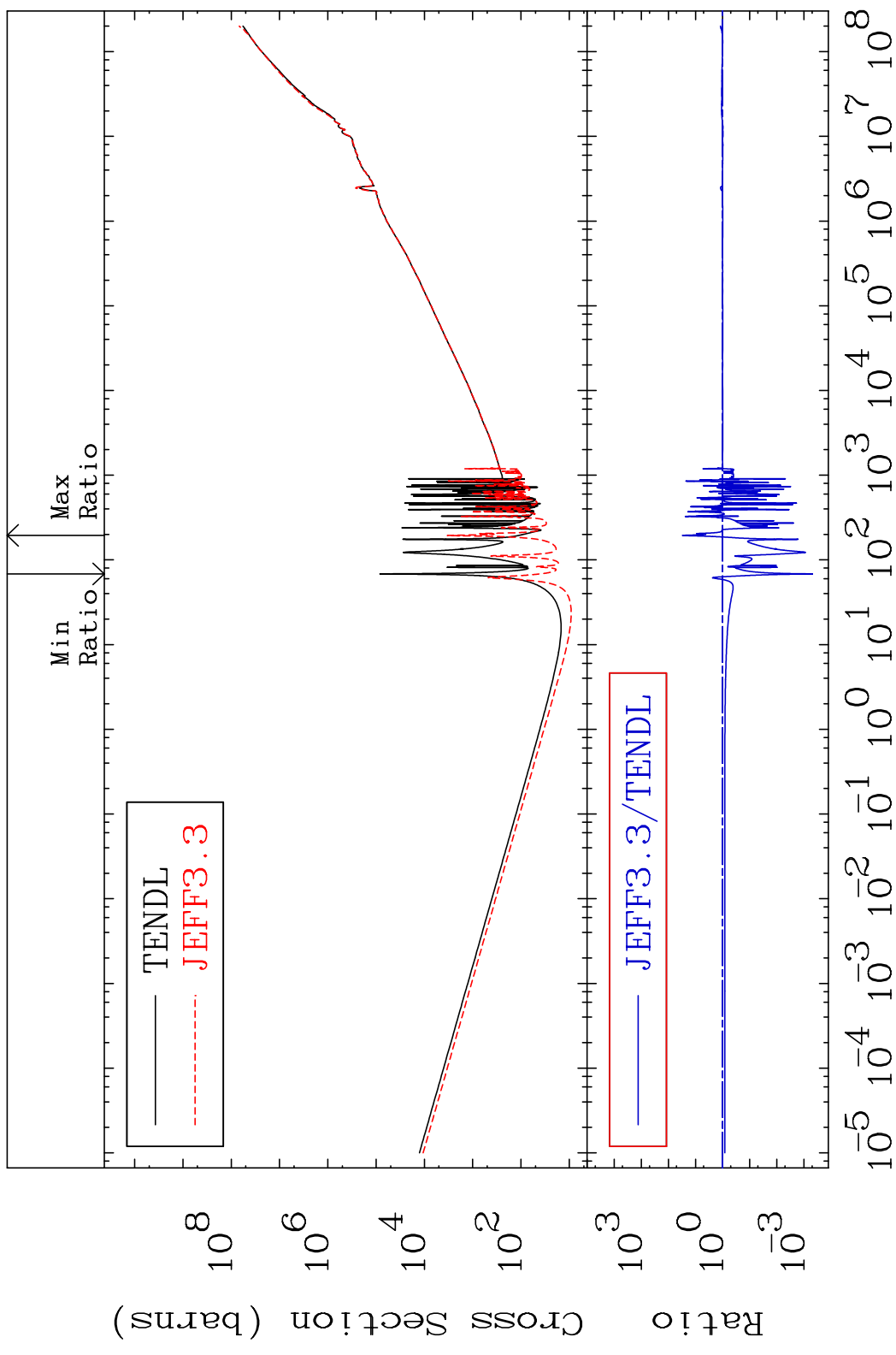
51-Sb-125

MAT 5137

Kerma total (eV-barns)

51-Sb-125

Cross Section -99.95 To 2957. %



62

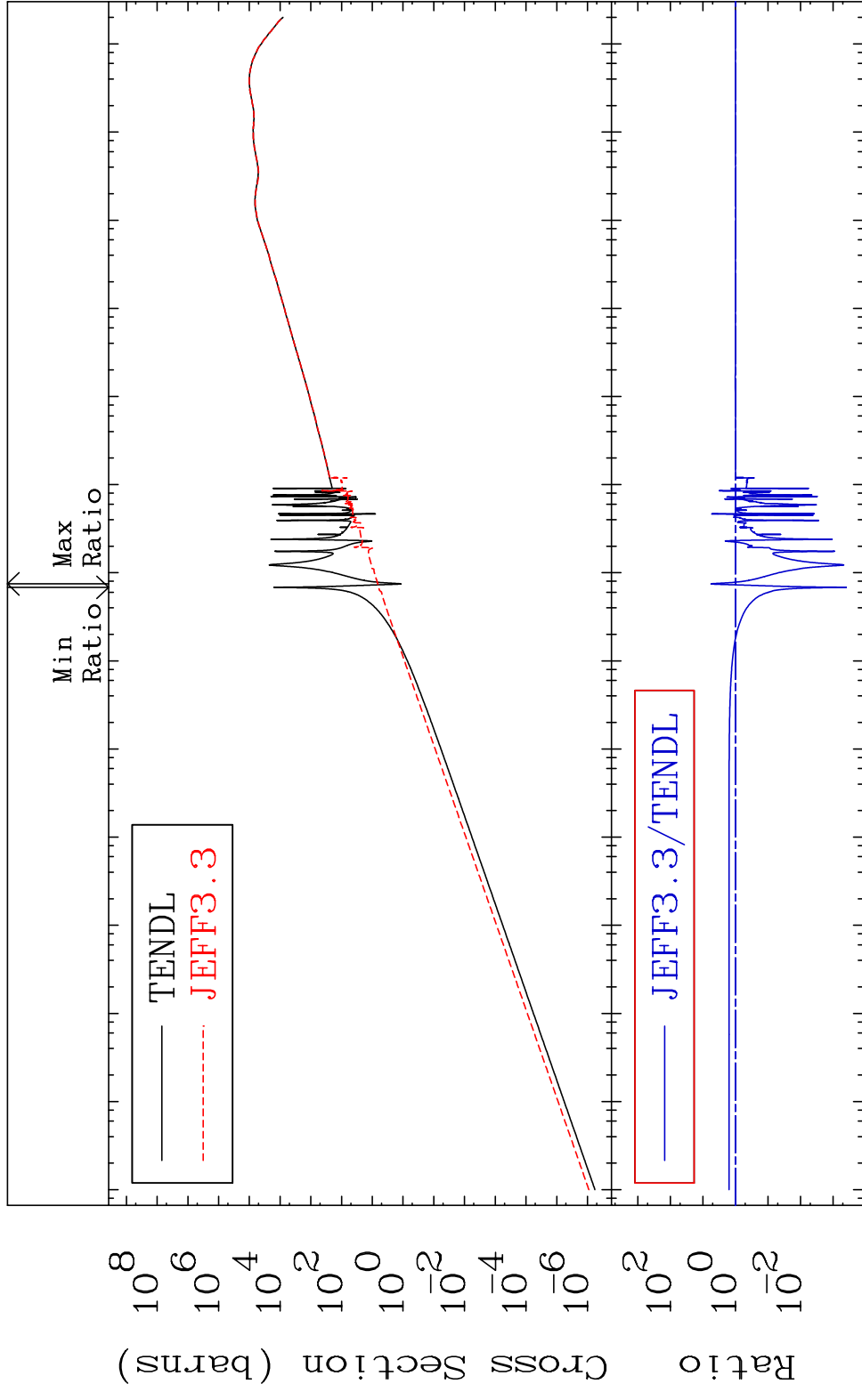
Incident Energy (eV)

51-Sb-125

MAT 5137

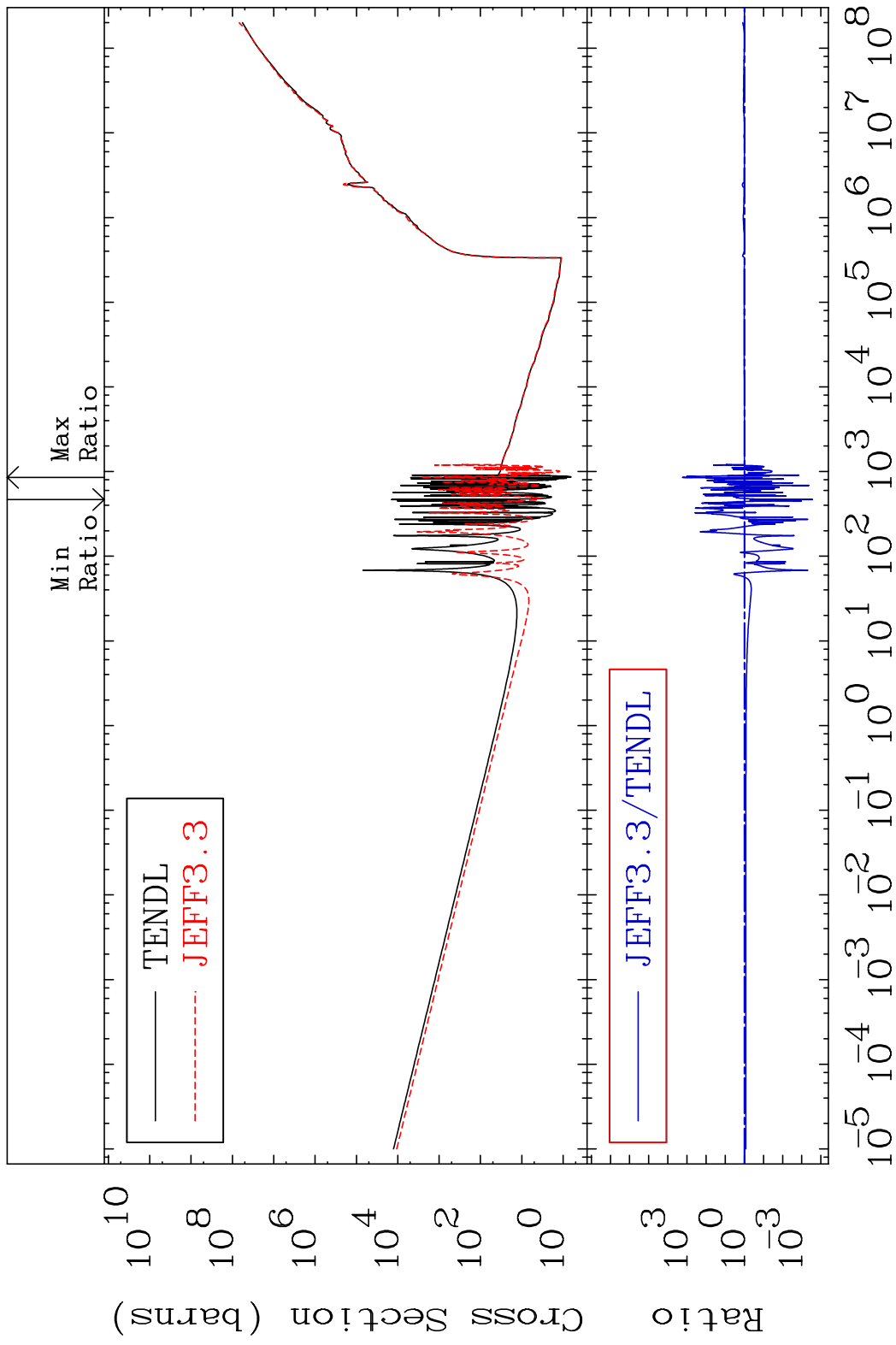
Kerma elastic  
Cross Section

51-Sb-125  
-99.96 To 473.3 %

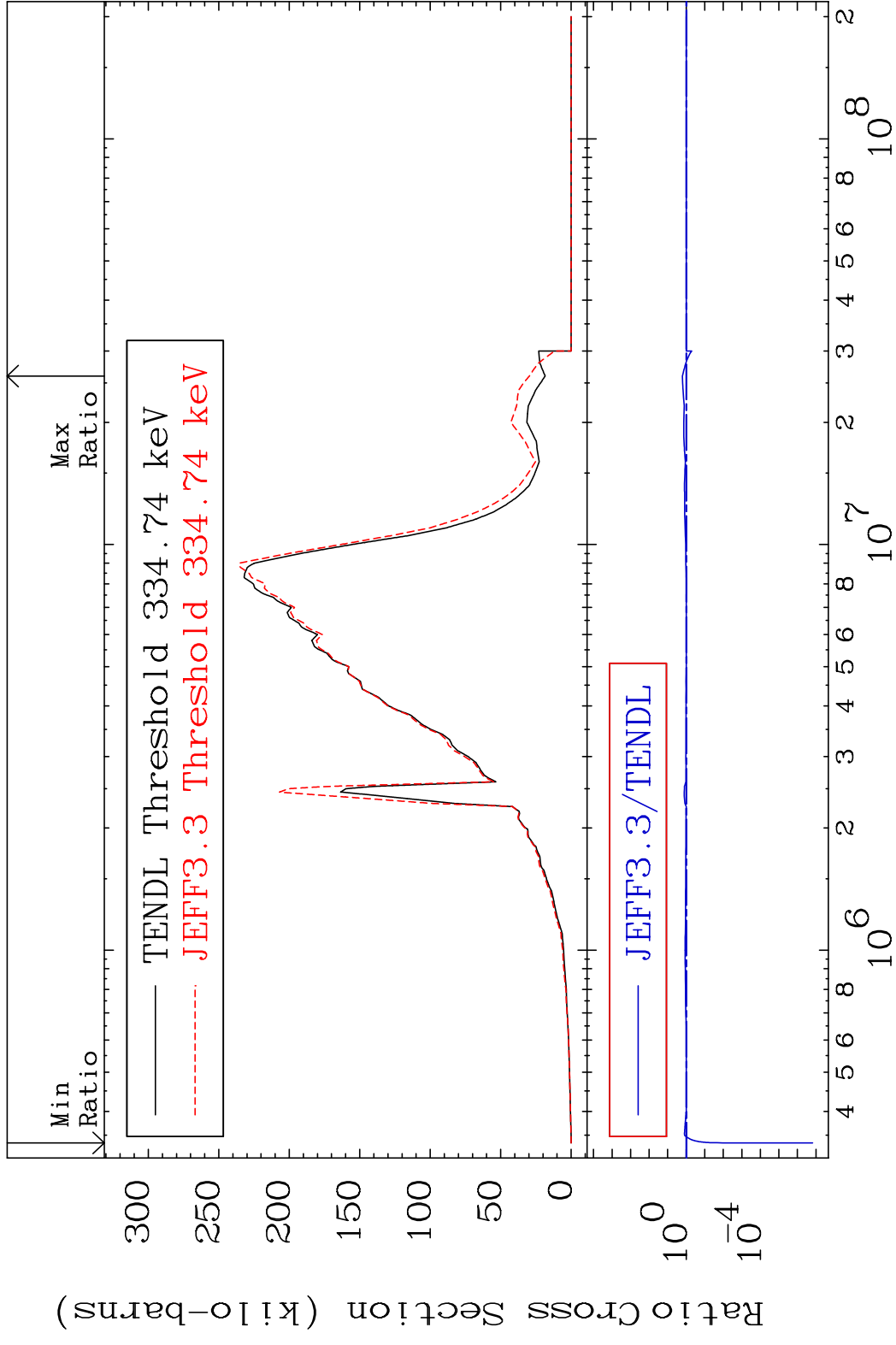




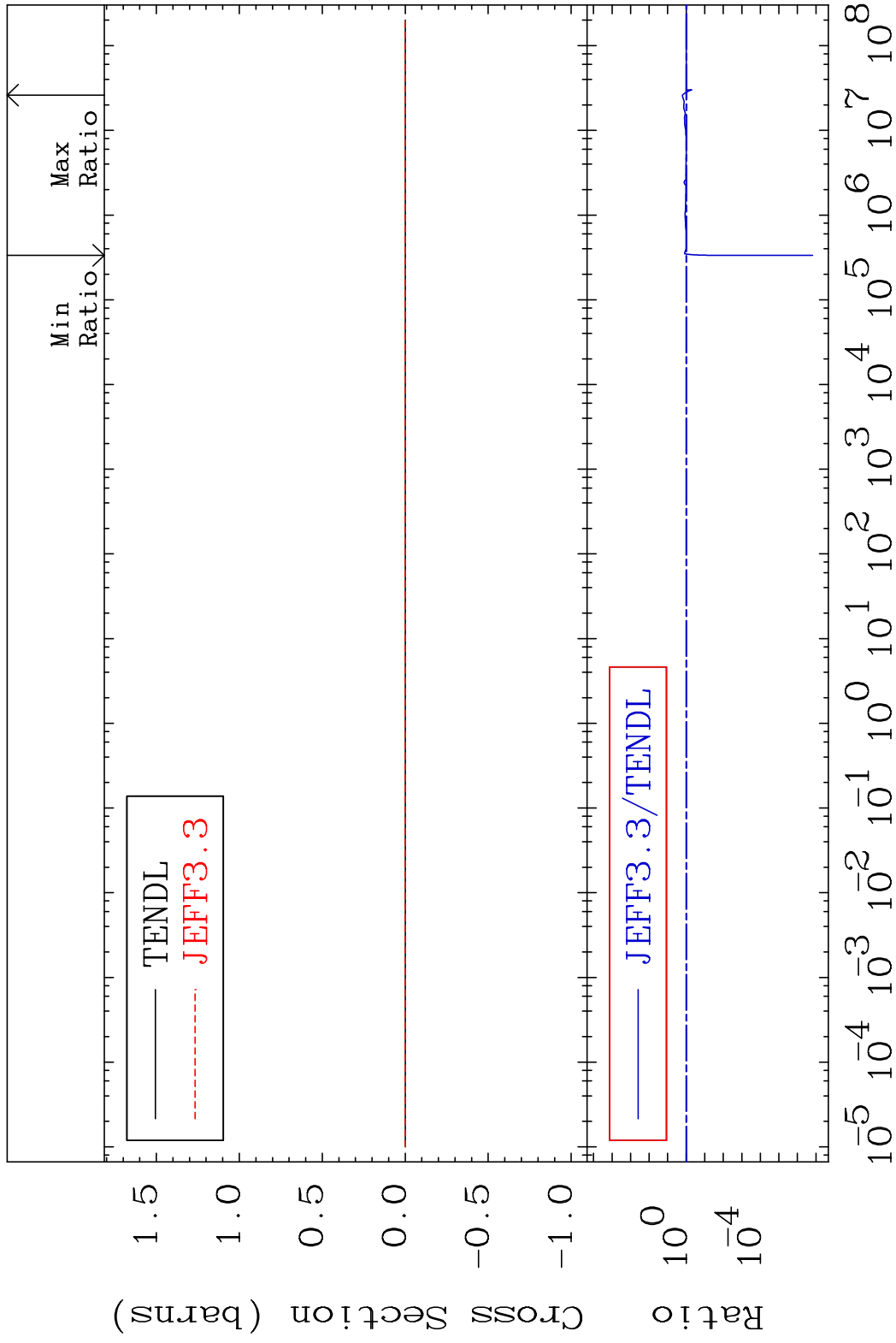
MAT 5137 Kerma non-elastic (all but mt2) 51-Sb-125  
 Cross Section -99.97 To 9999. %



MAT 5137 Kerma inelastic (mt51-91) 51-Sb-125  
 Cross Section -100.0 To 61.06 %

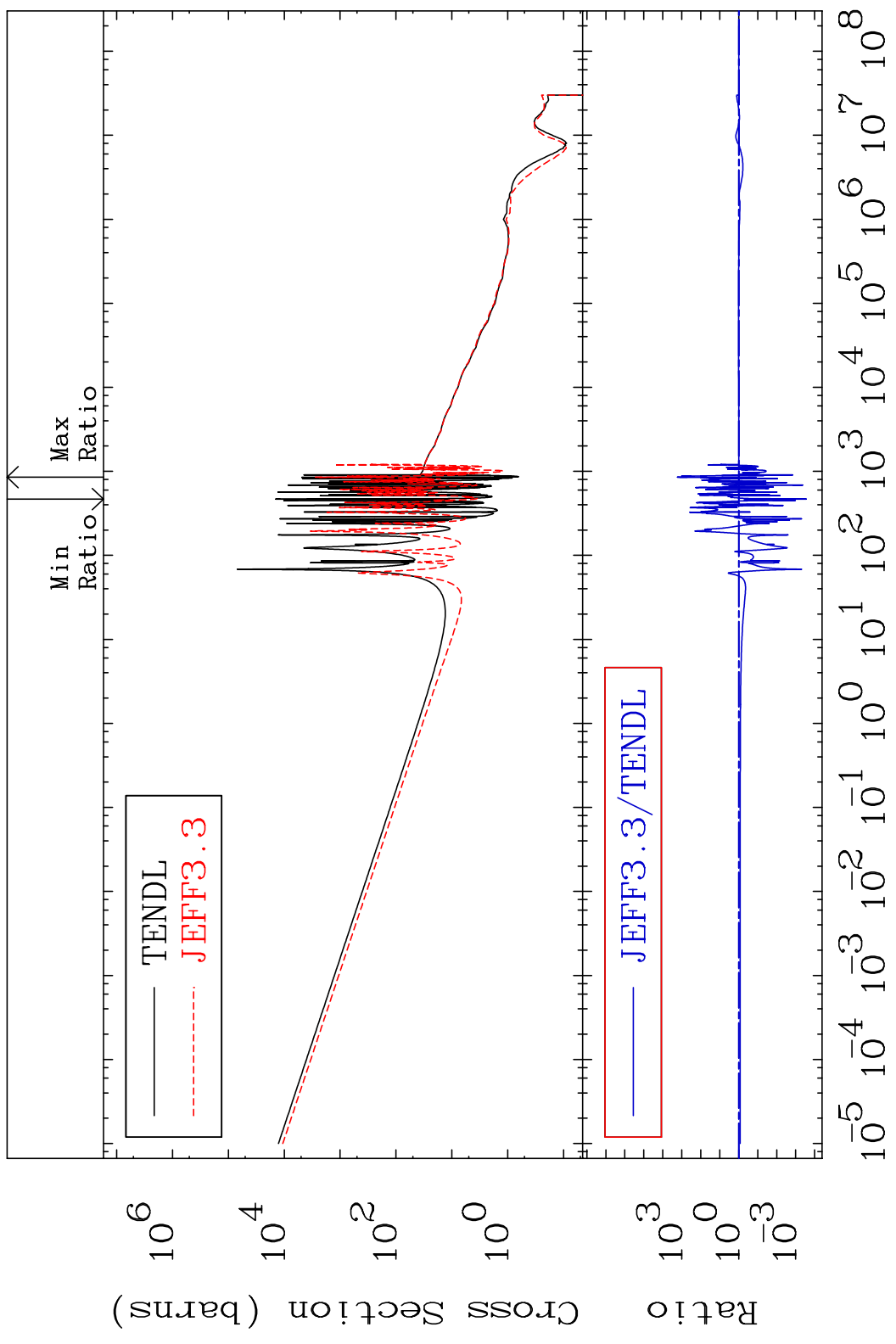


MAT 5137 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-125  
 Cross Section -100.0 To 61.06 %



MAT 5137

Kerma capture (mt102) 51-Sb-125  
Cross Section -99.97 To 9999. %



67

Incident Energy (eV)

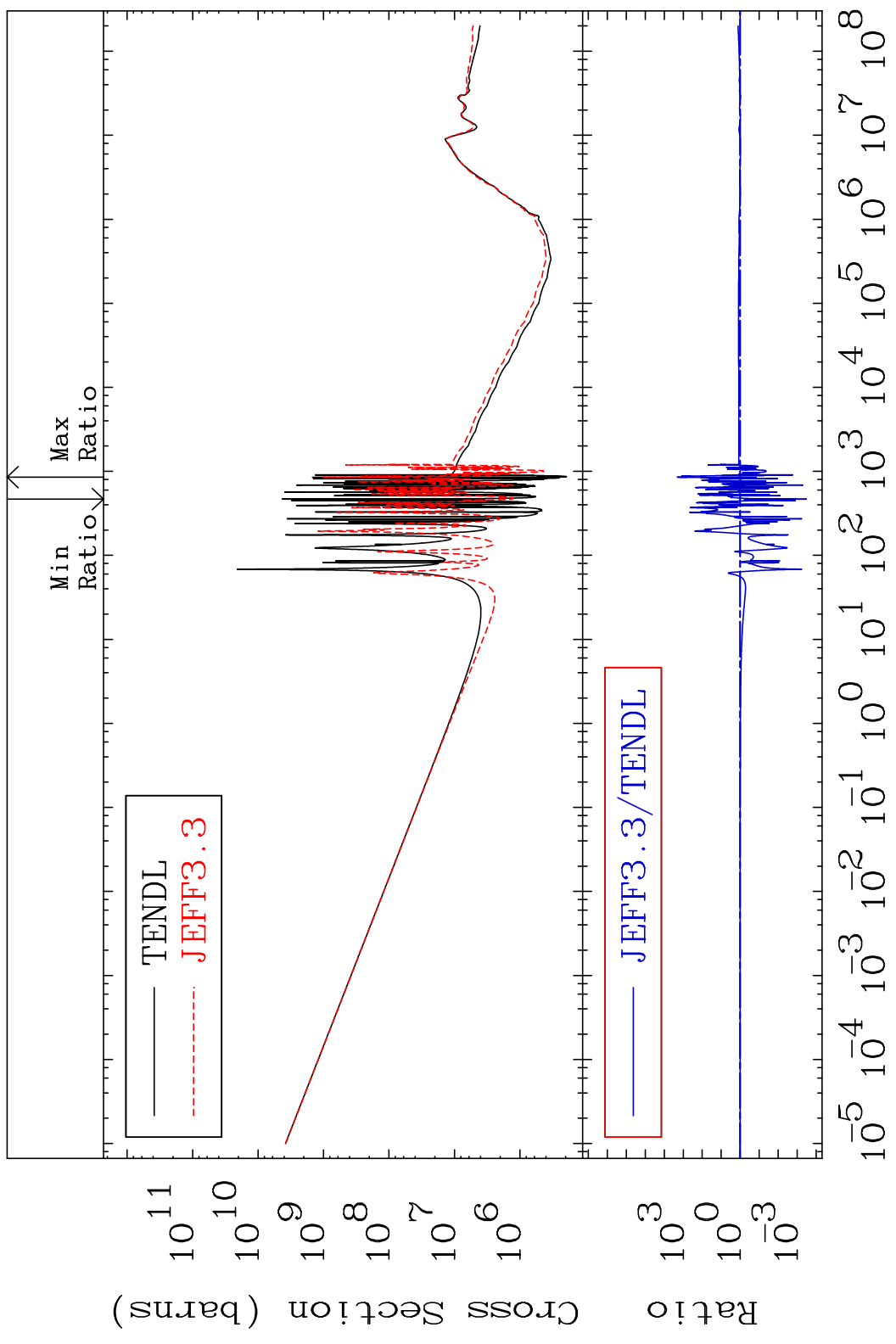
51-Sb-125

MAT 5137

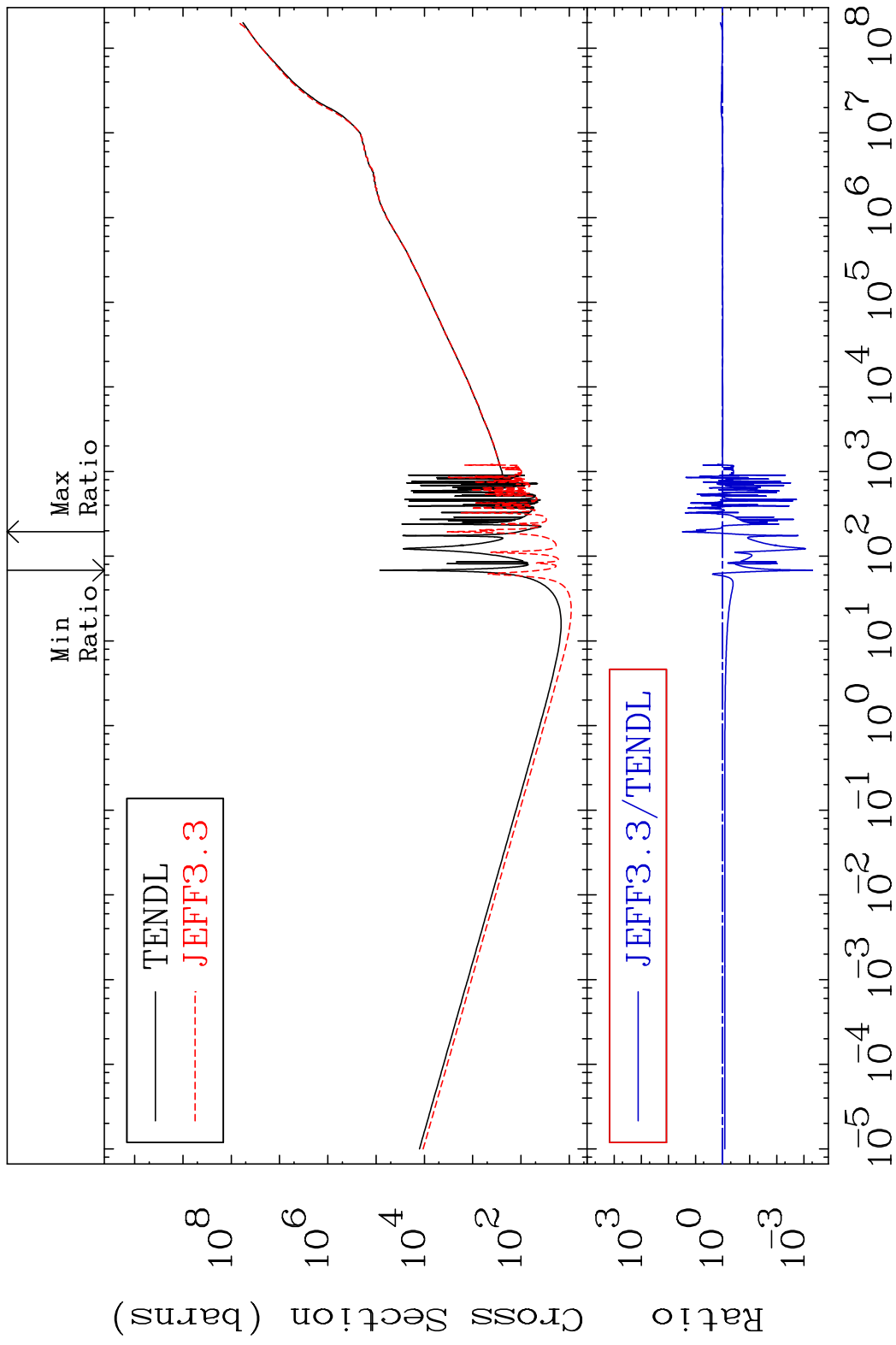
Total photon (eV-barns)

51-Sb-125

Cross Section -99.97 To 9999. %



MAT 5137 Total kinematic kerma (high limit) 51-Sb-125  
 Cross Section -99.95 To 2957. %

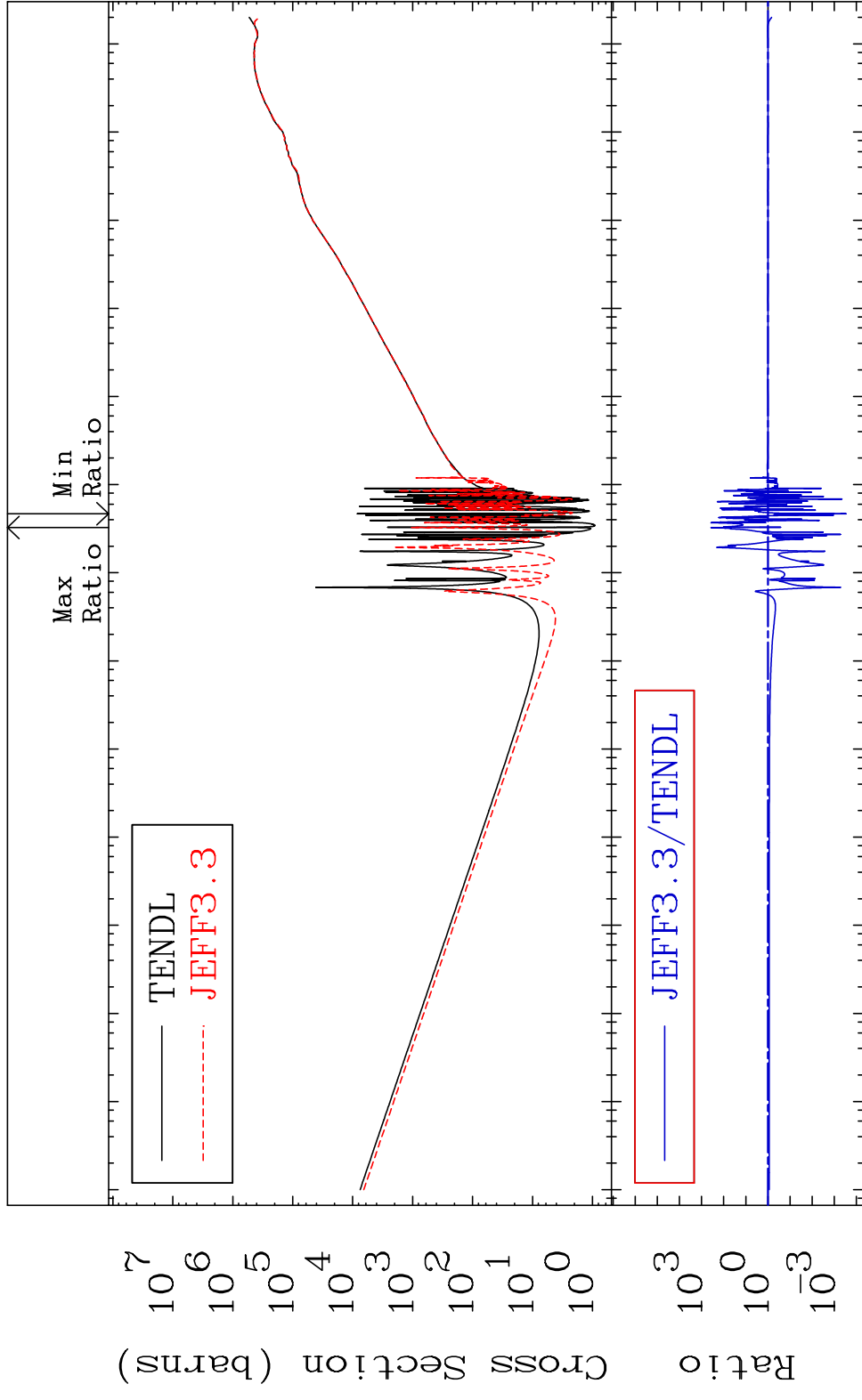


MAT 5137

Dpa total (eV-barns)

51-Sb-125

Cross Section -99.97 To 9999. %



70

Incident Energy (eV)

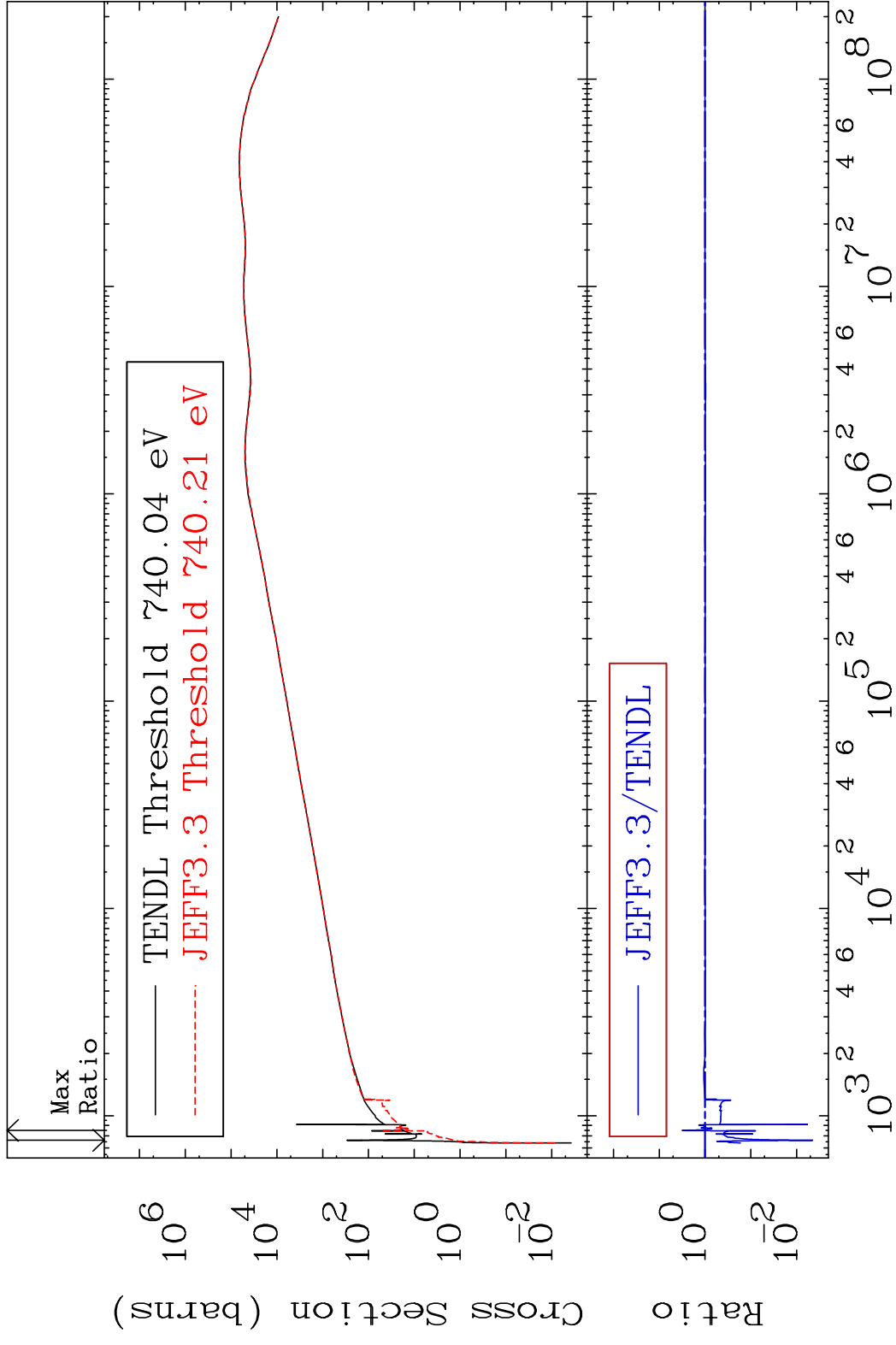
51-Sb-125

MAT 5137

Dpa elastic (mt2)

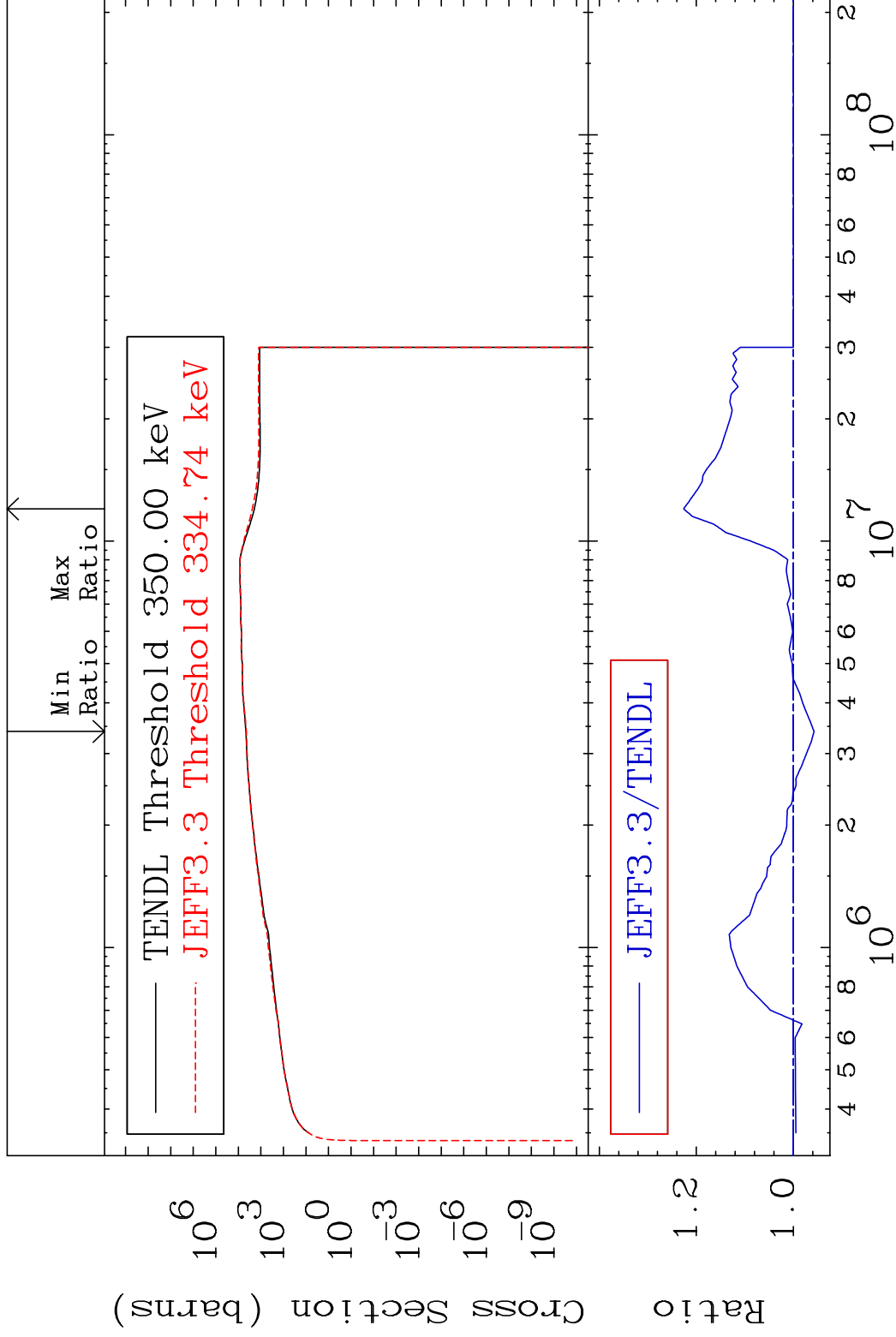
51-Sb-125

Cross Section -99.55 To 213.4 %

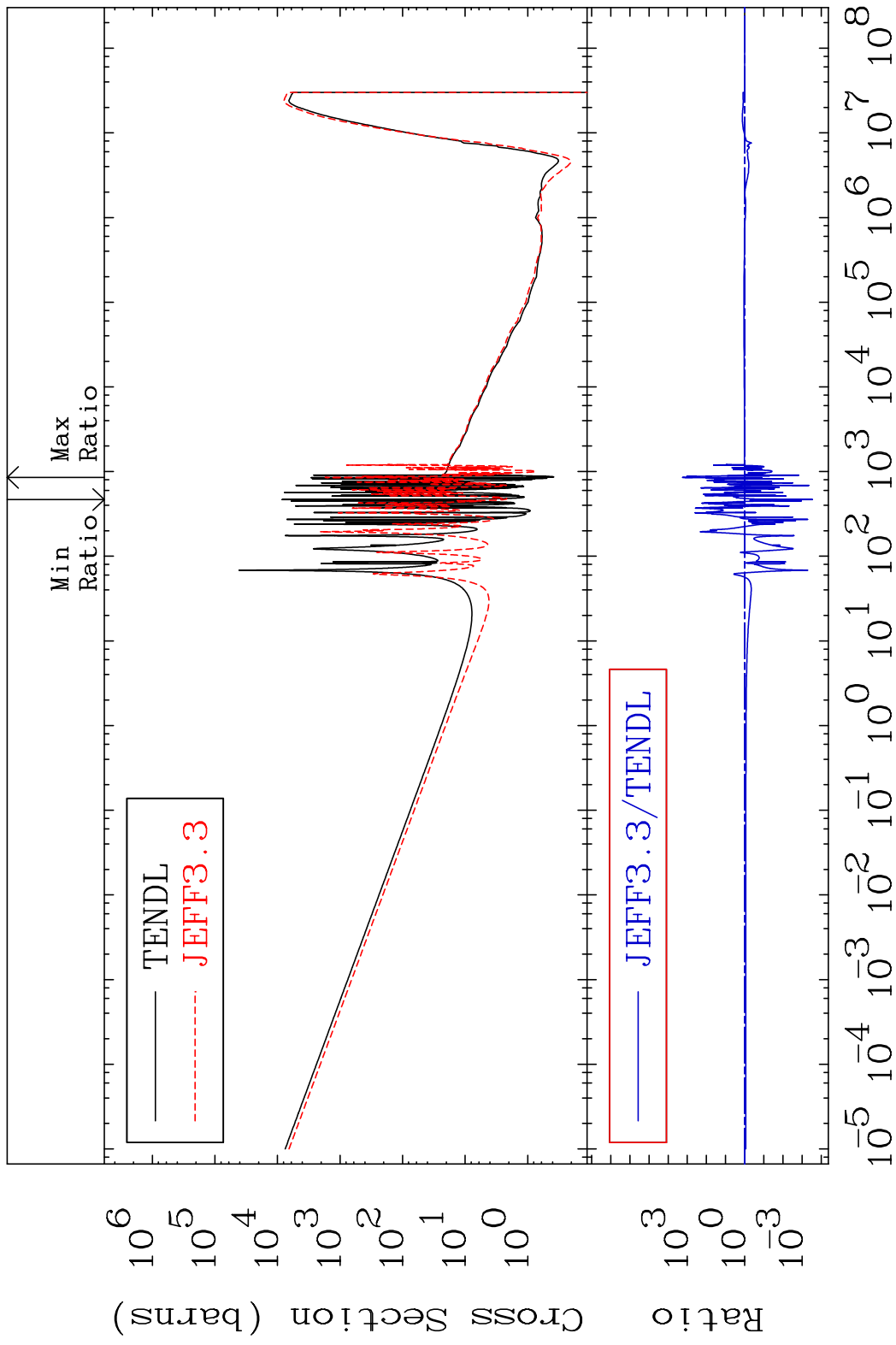




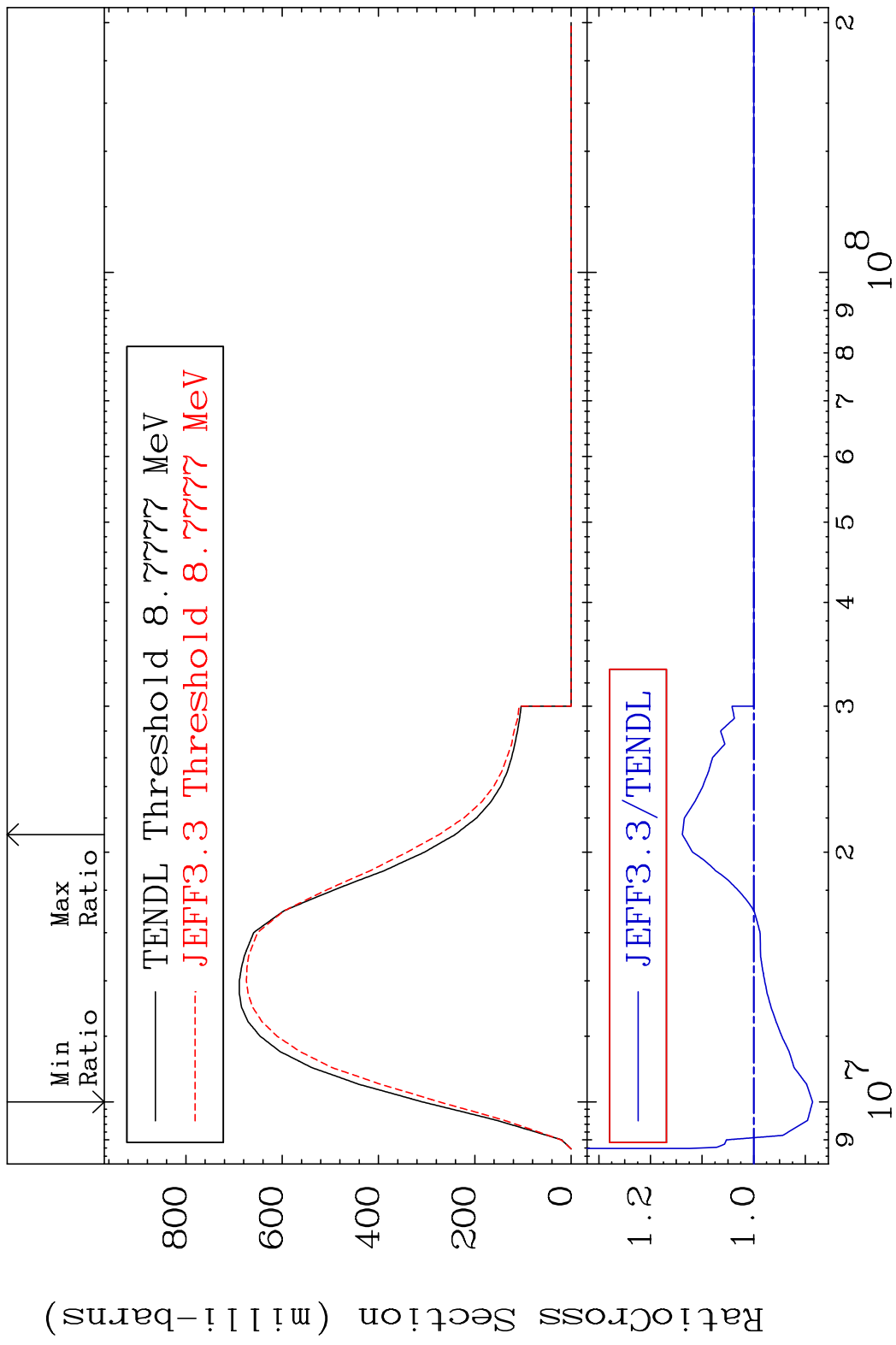
Cross Section -4.260 To 22.62 %



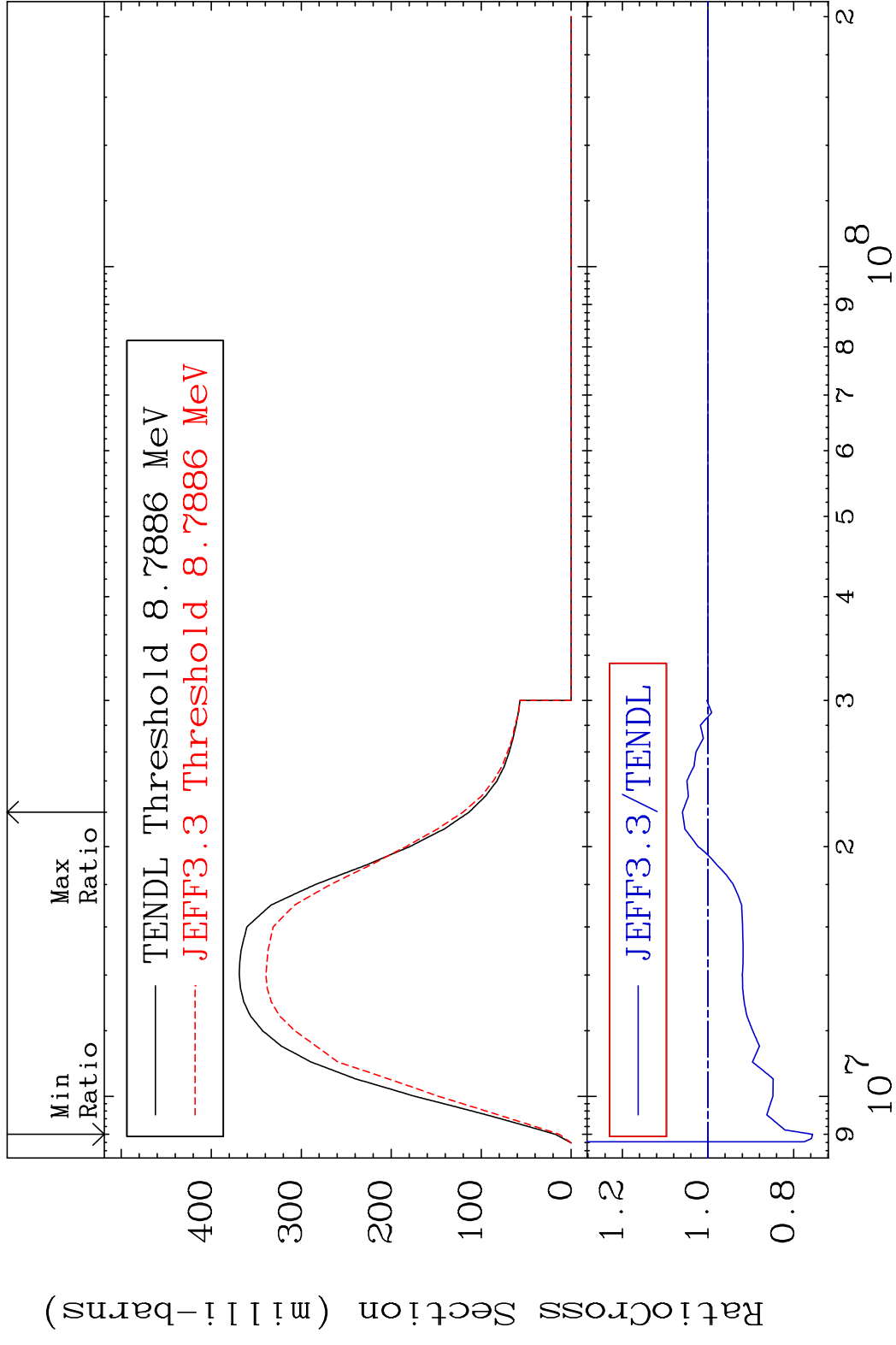
MAT 5137 Dpa disappearance (mt102 -120) 51-Sb-125  
 Cross Section -99.97 To 9999. %



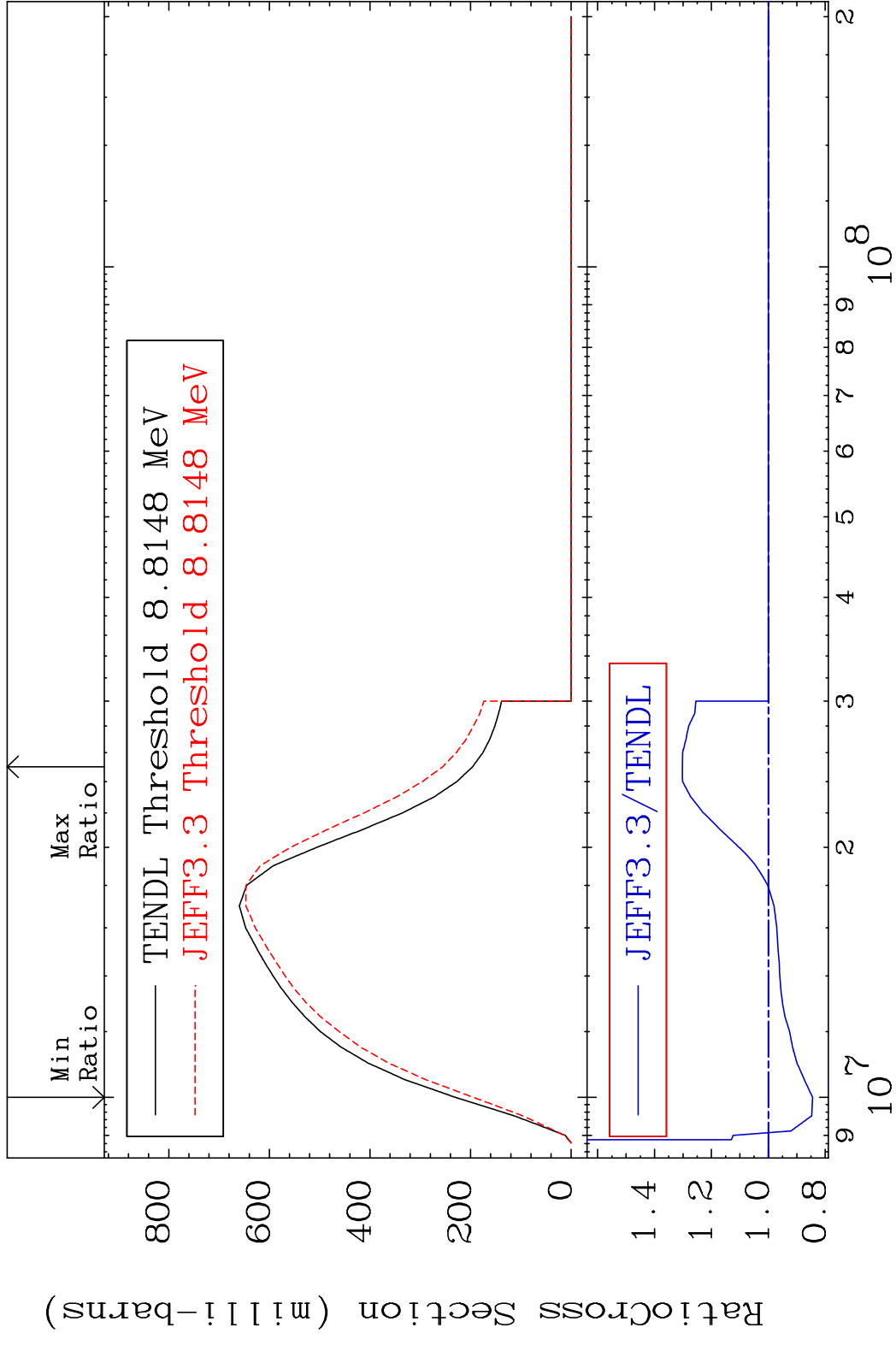
MAT 5137 (n,2n):51-Sb-124g 51-Sb-125  
 Radionuclide Production Cross Section 13.83 %

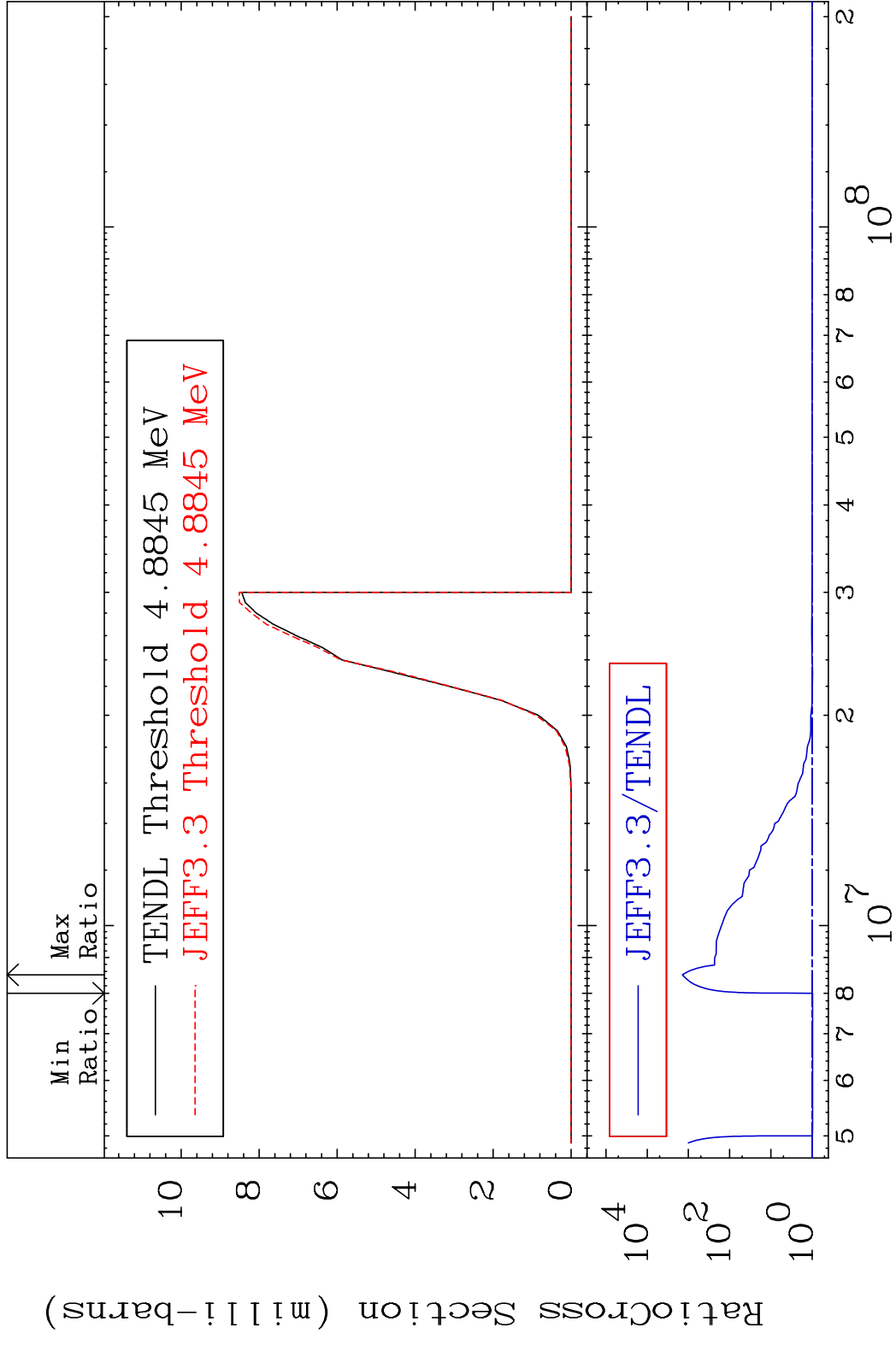


MAT 5137 (n,2n):51-Sb-124m1 51-Sb-125  
 Radionuclide Production Cross Section 5.984 %

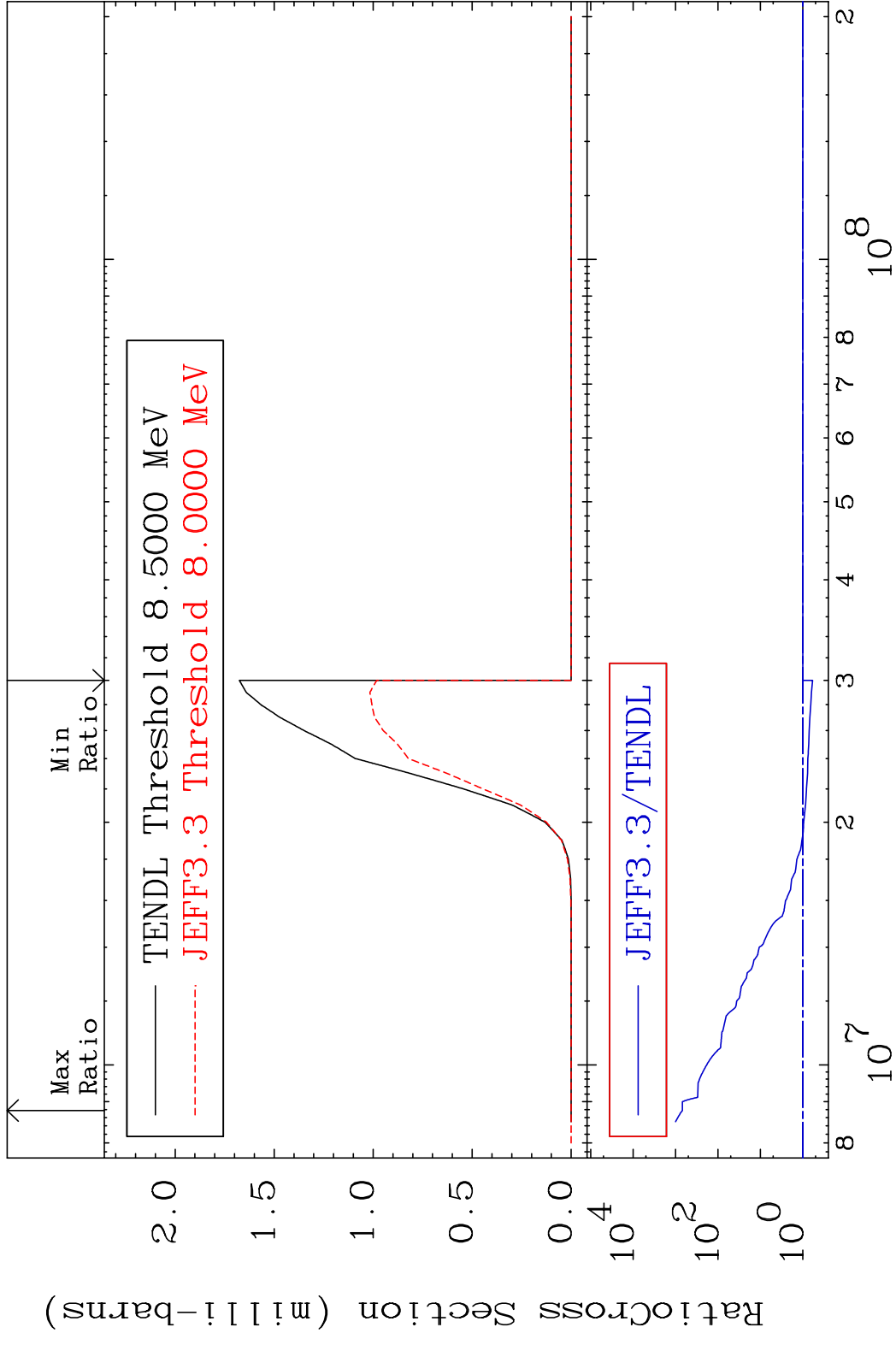


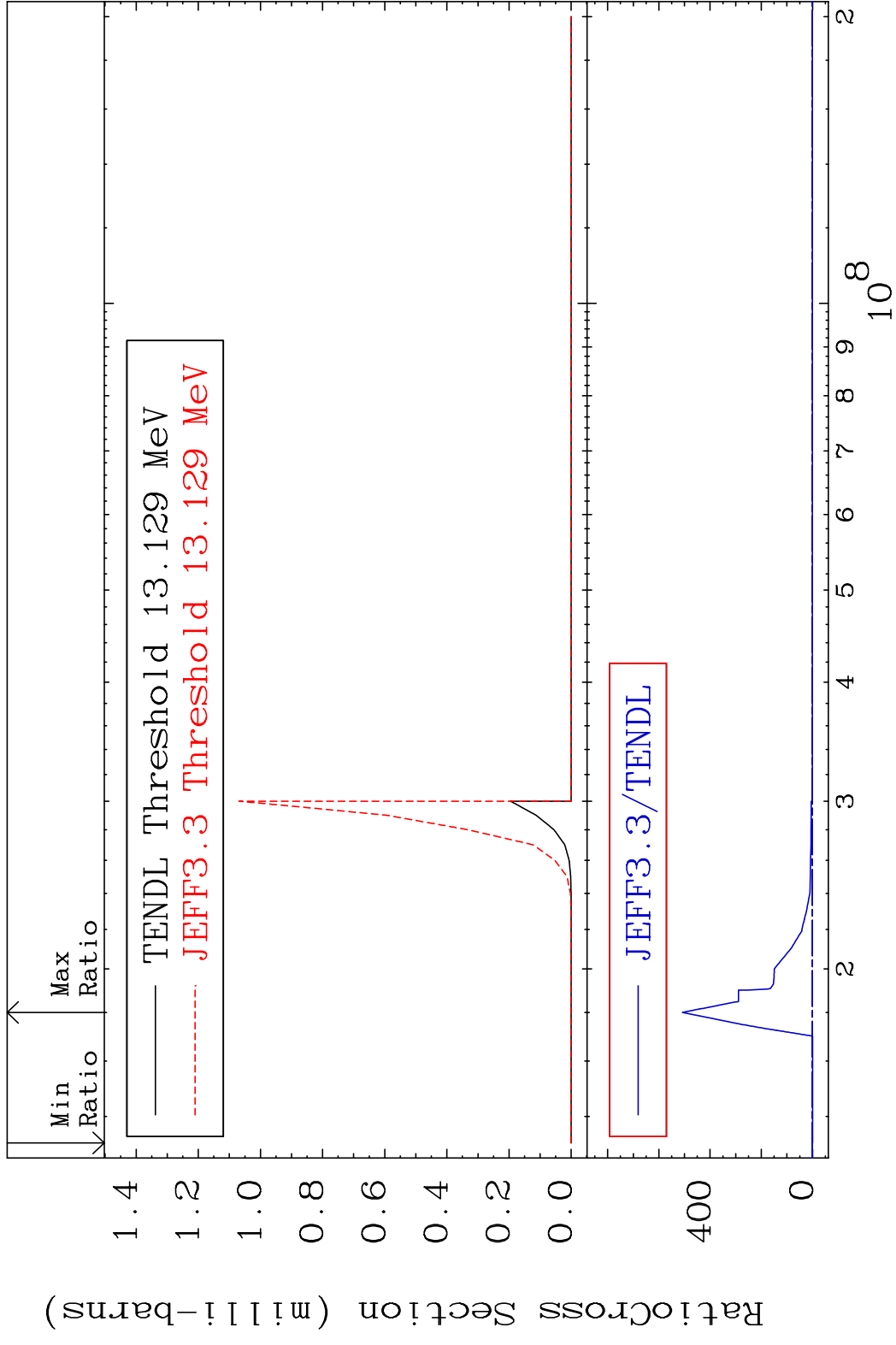
75 Incident Energy (eV) 51-Sb-125



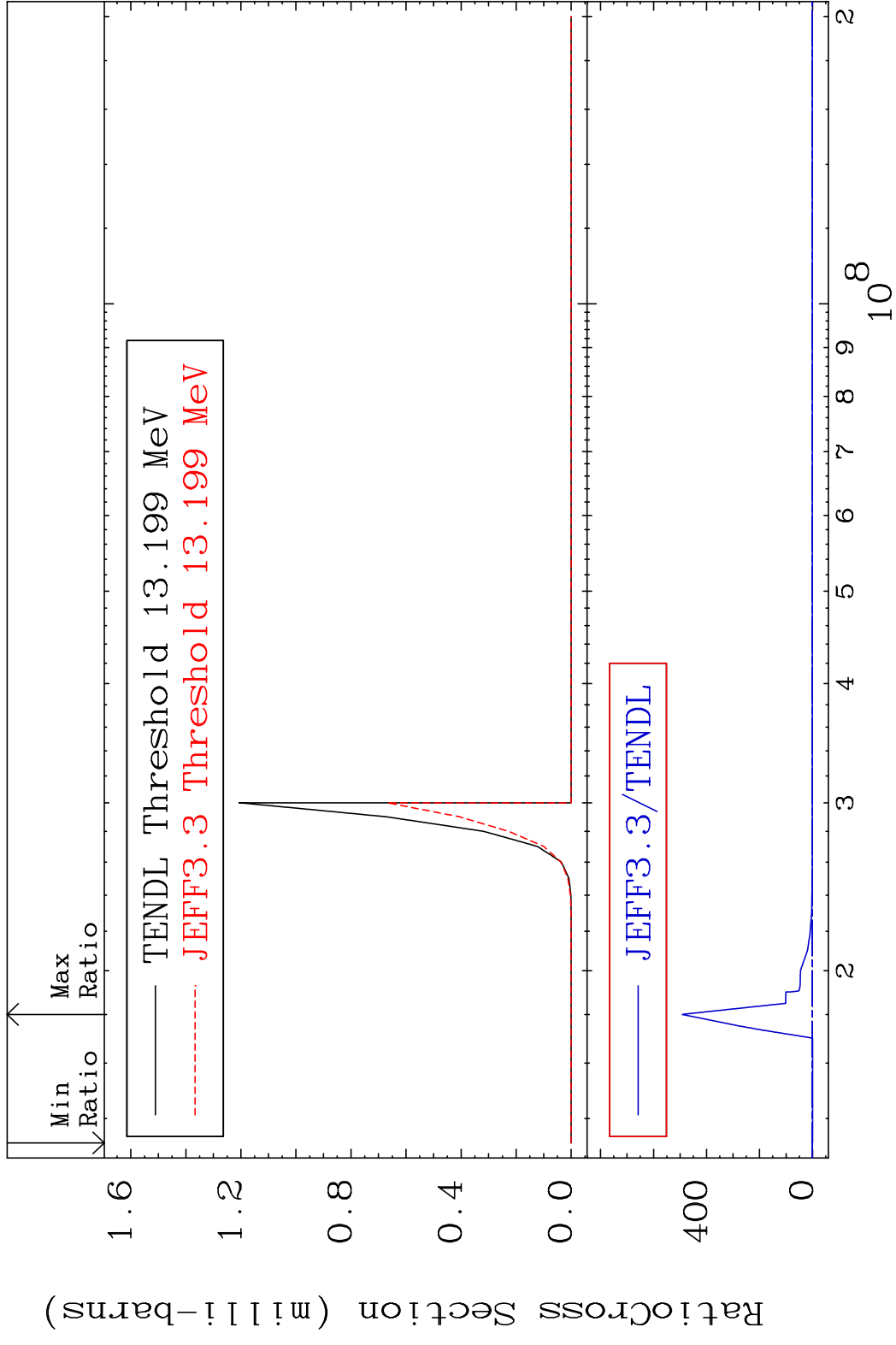


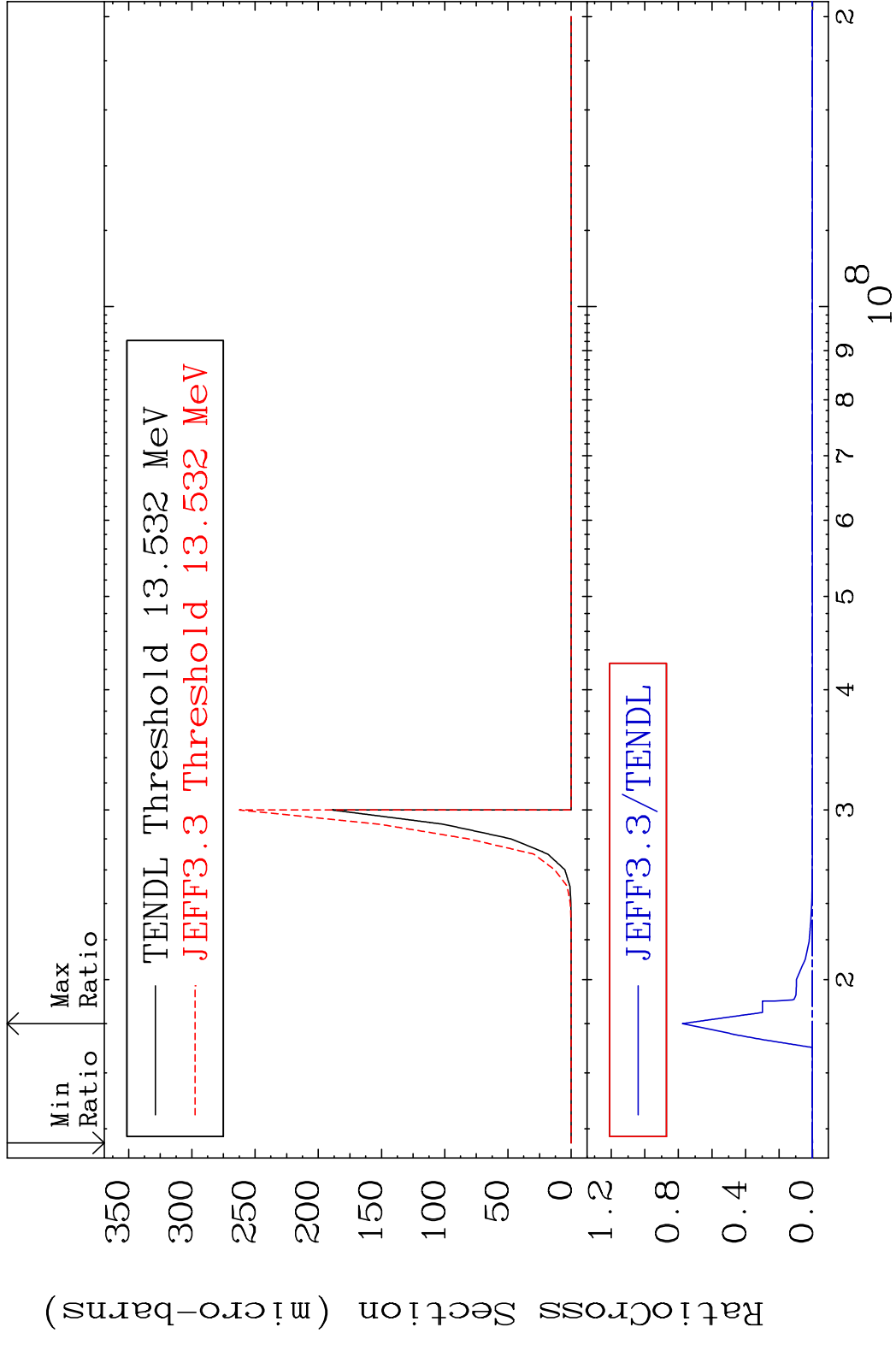
MAT 5137 (n, n')  $\alpha$ :49-In-121m1 51-Sb-125  
 Radionuclide Production Cross Section 458810 9999. %

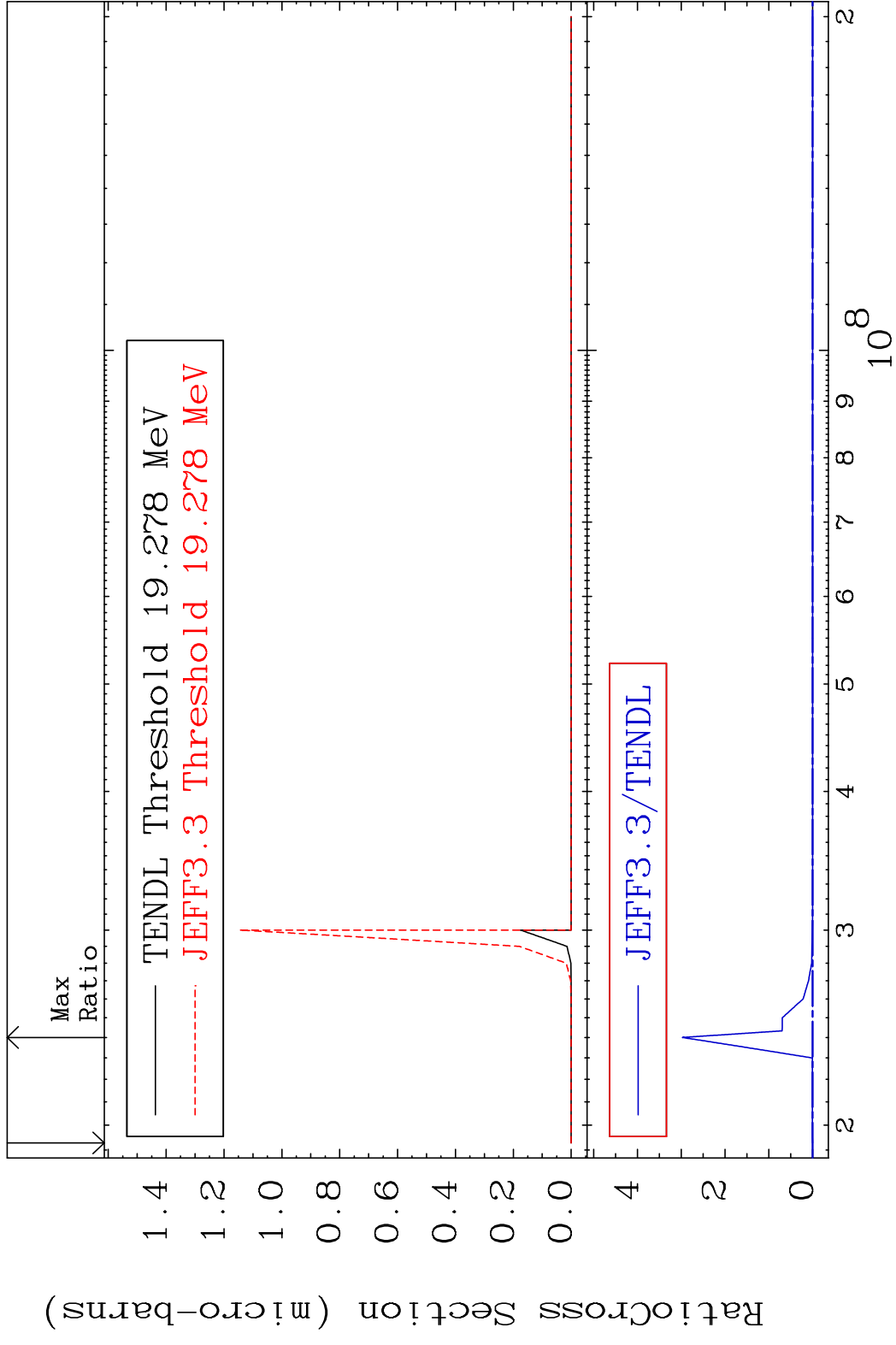


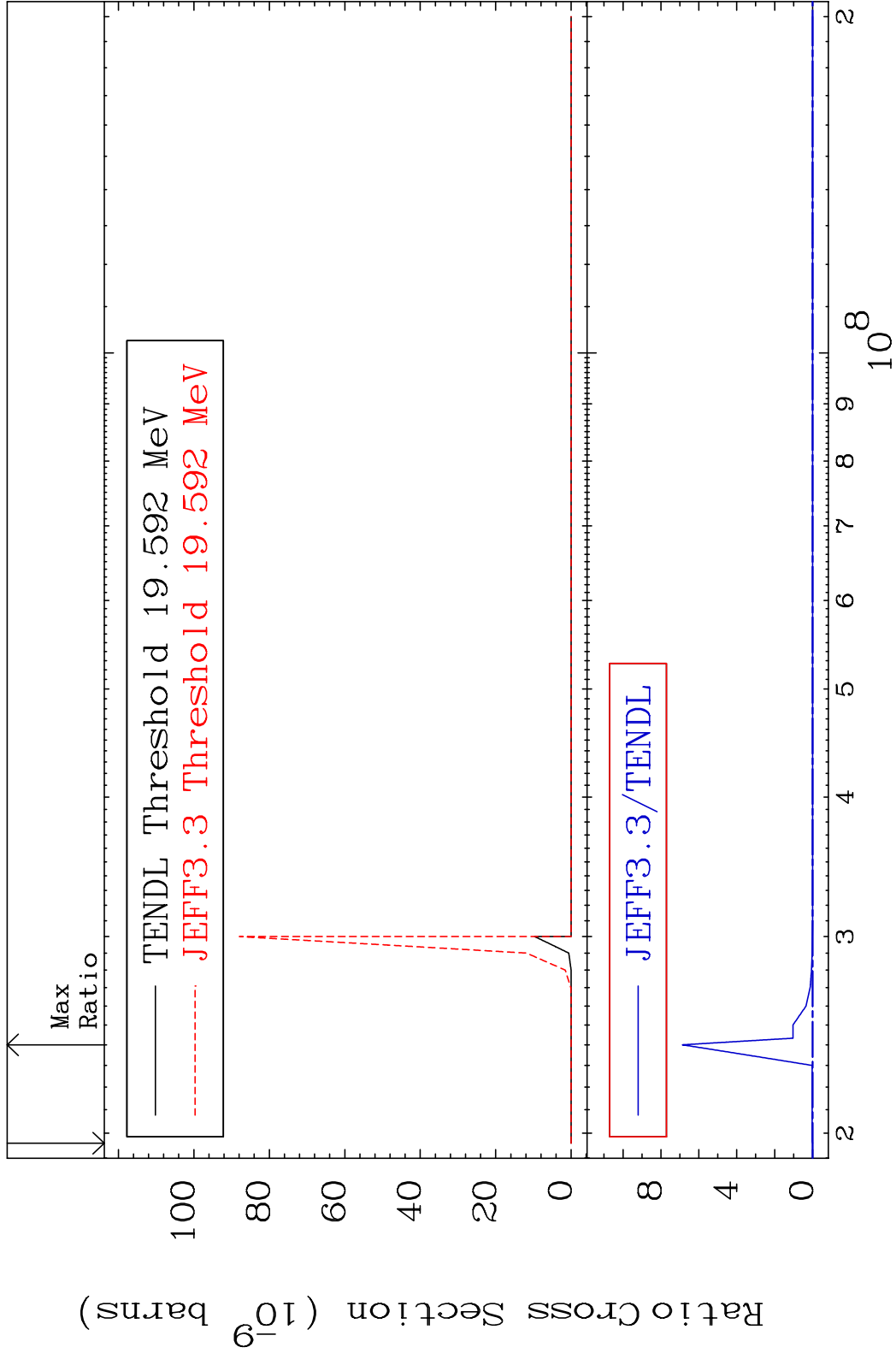




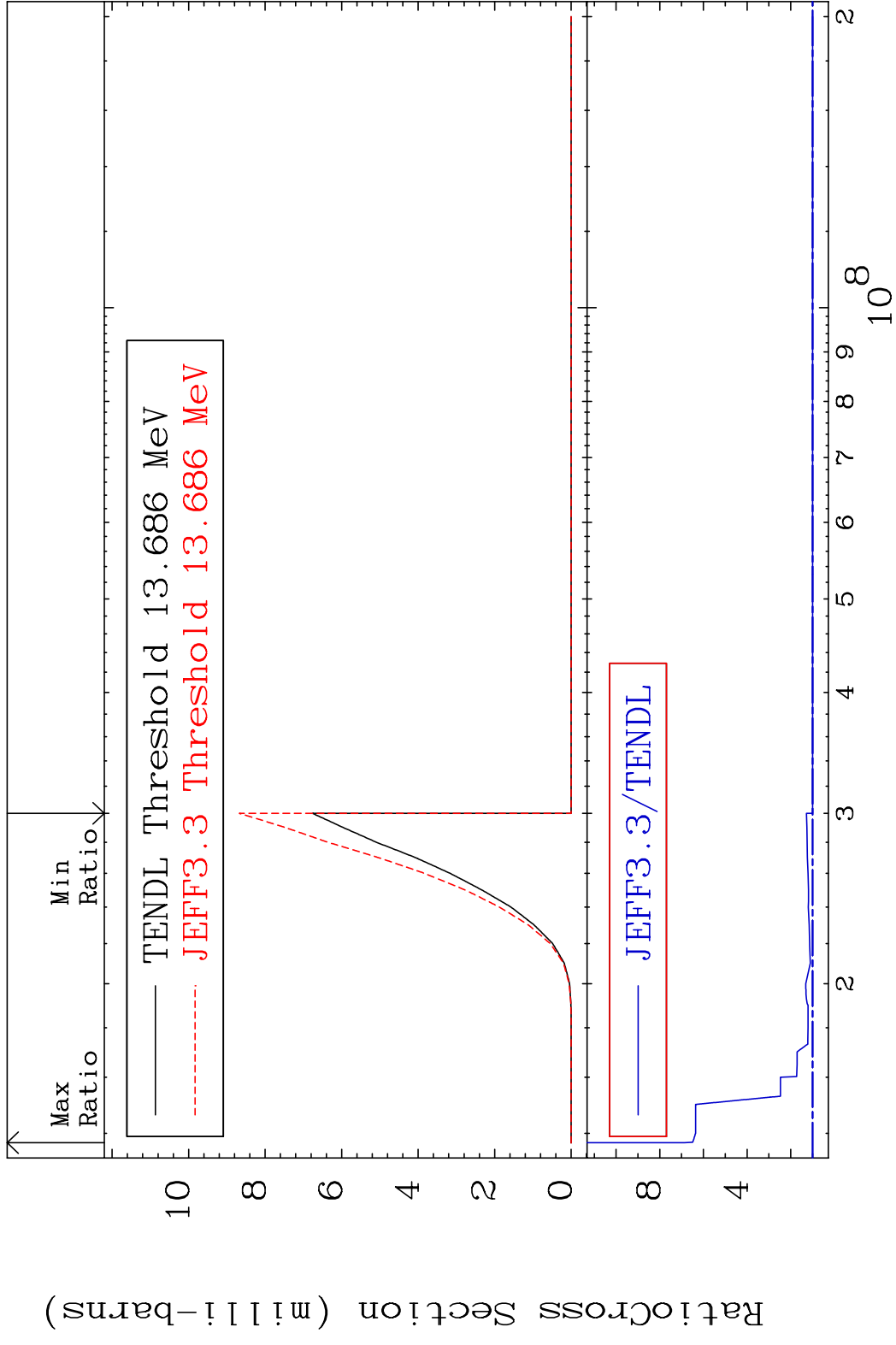


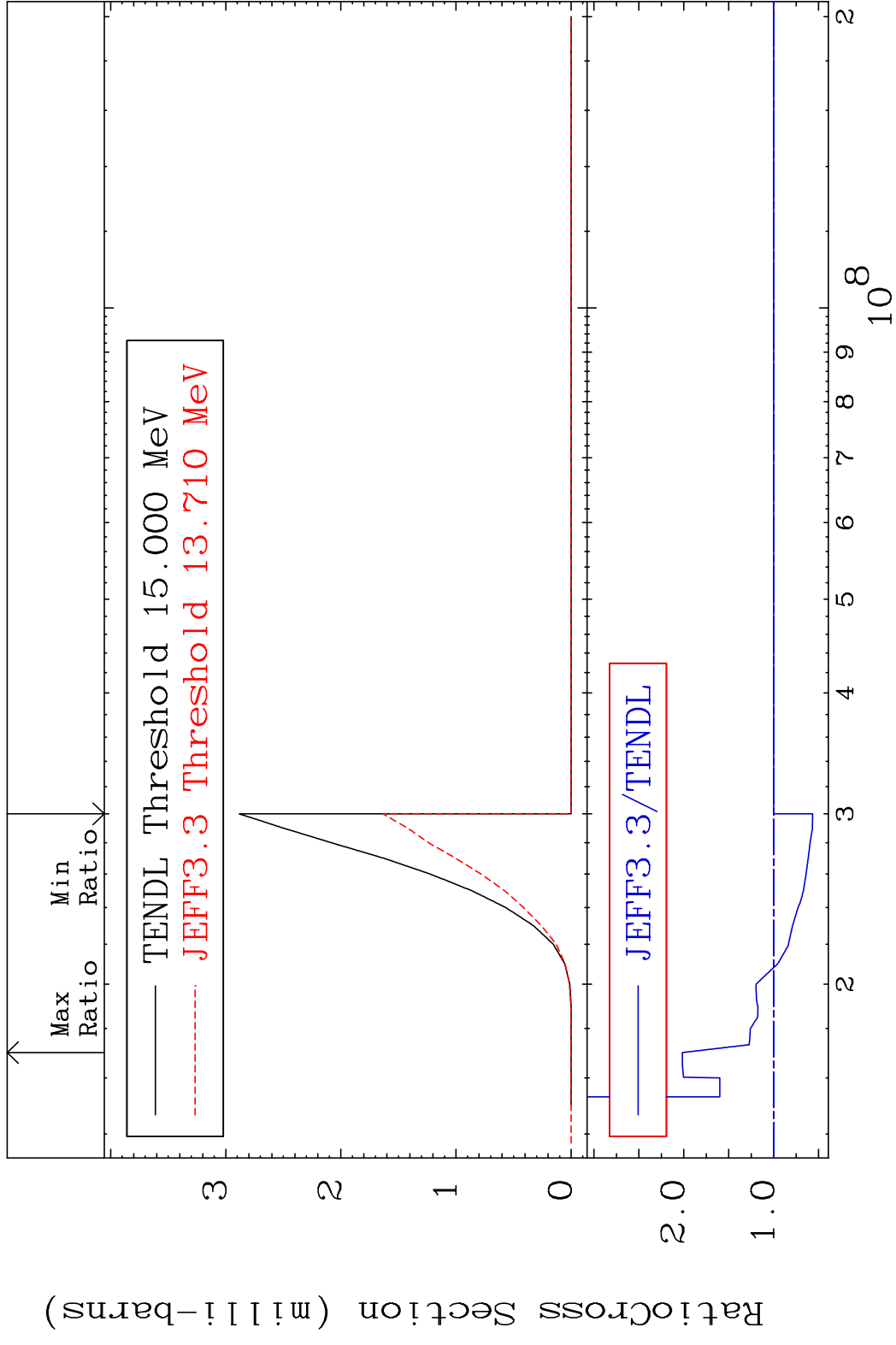




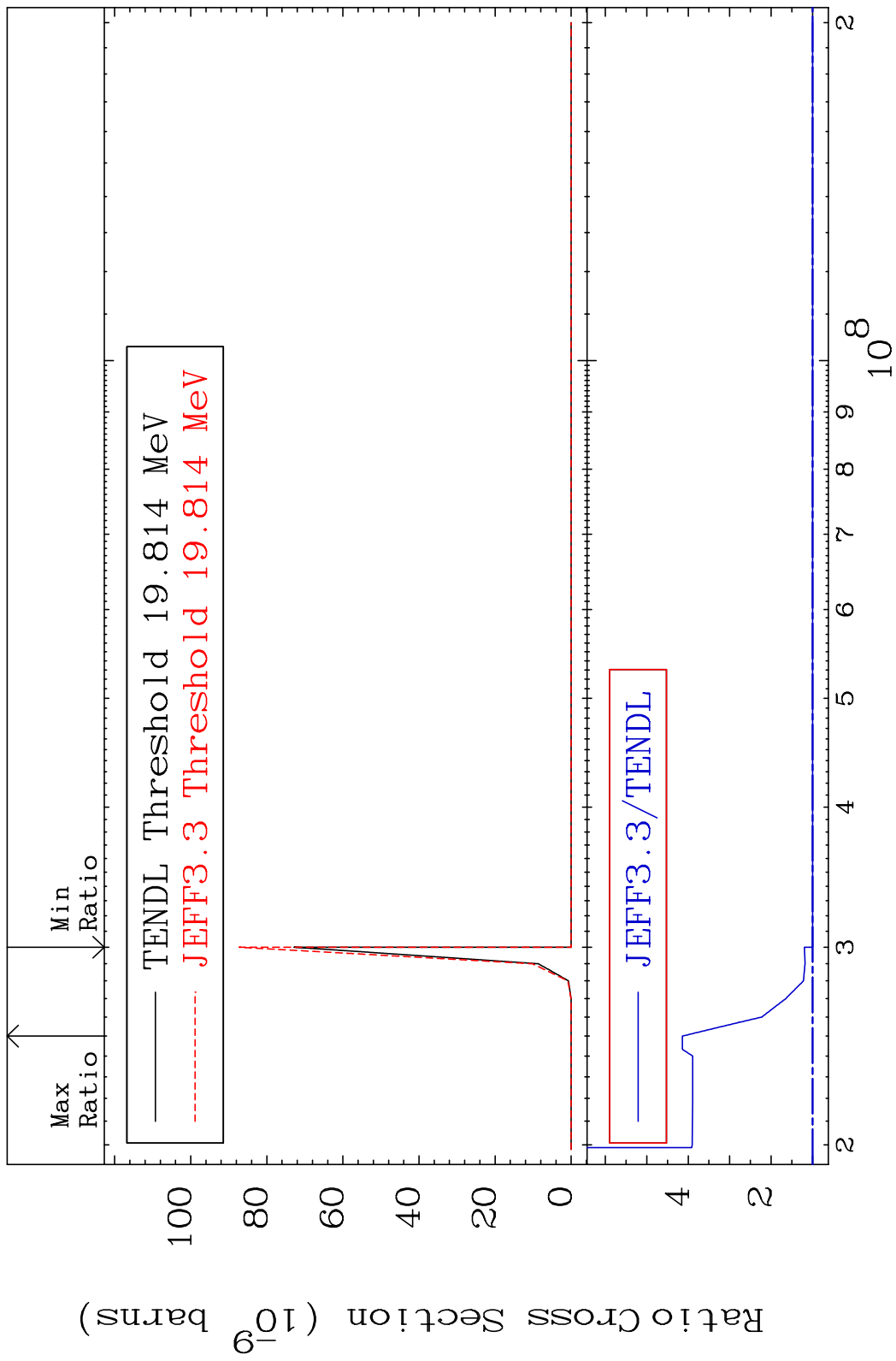


MAT 5137 (n, n') d:50-Sn-123g 51-Sb-125  
 Radionuclide Production Cross Section 596.5 %

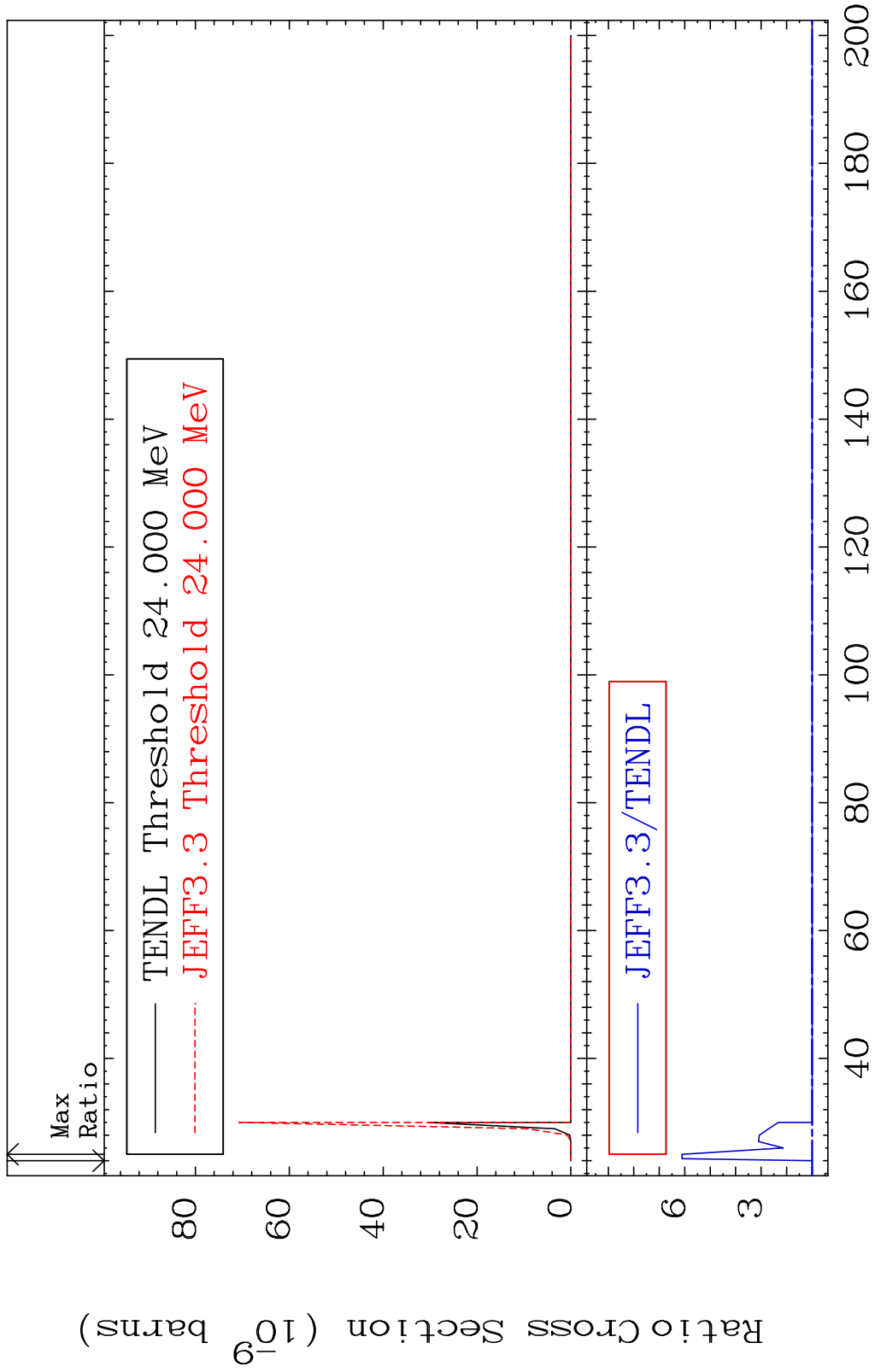




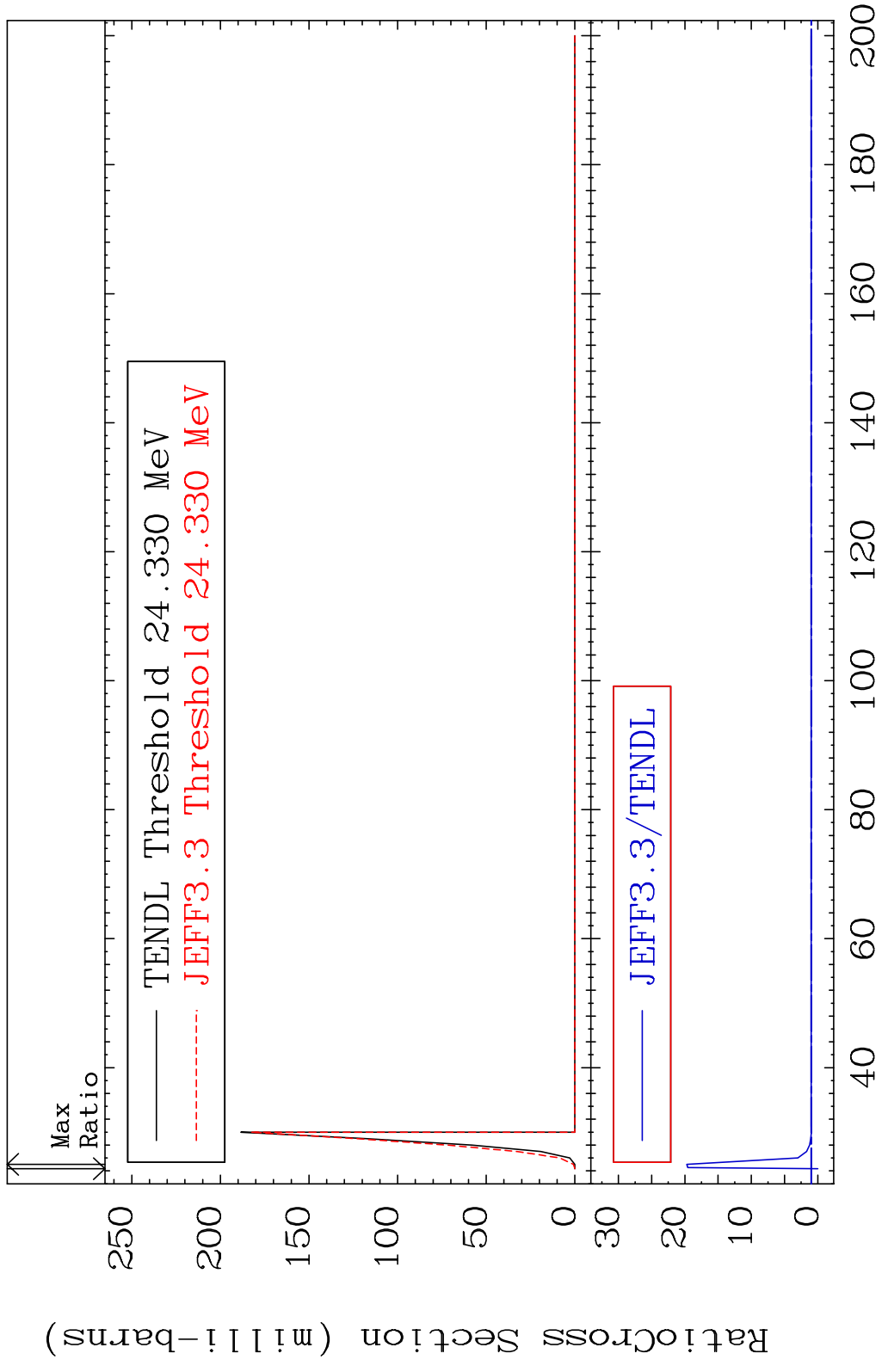




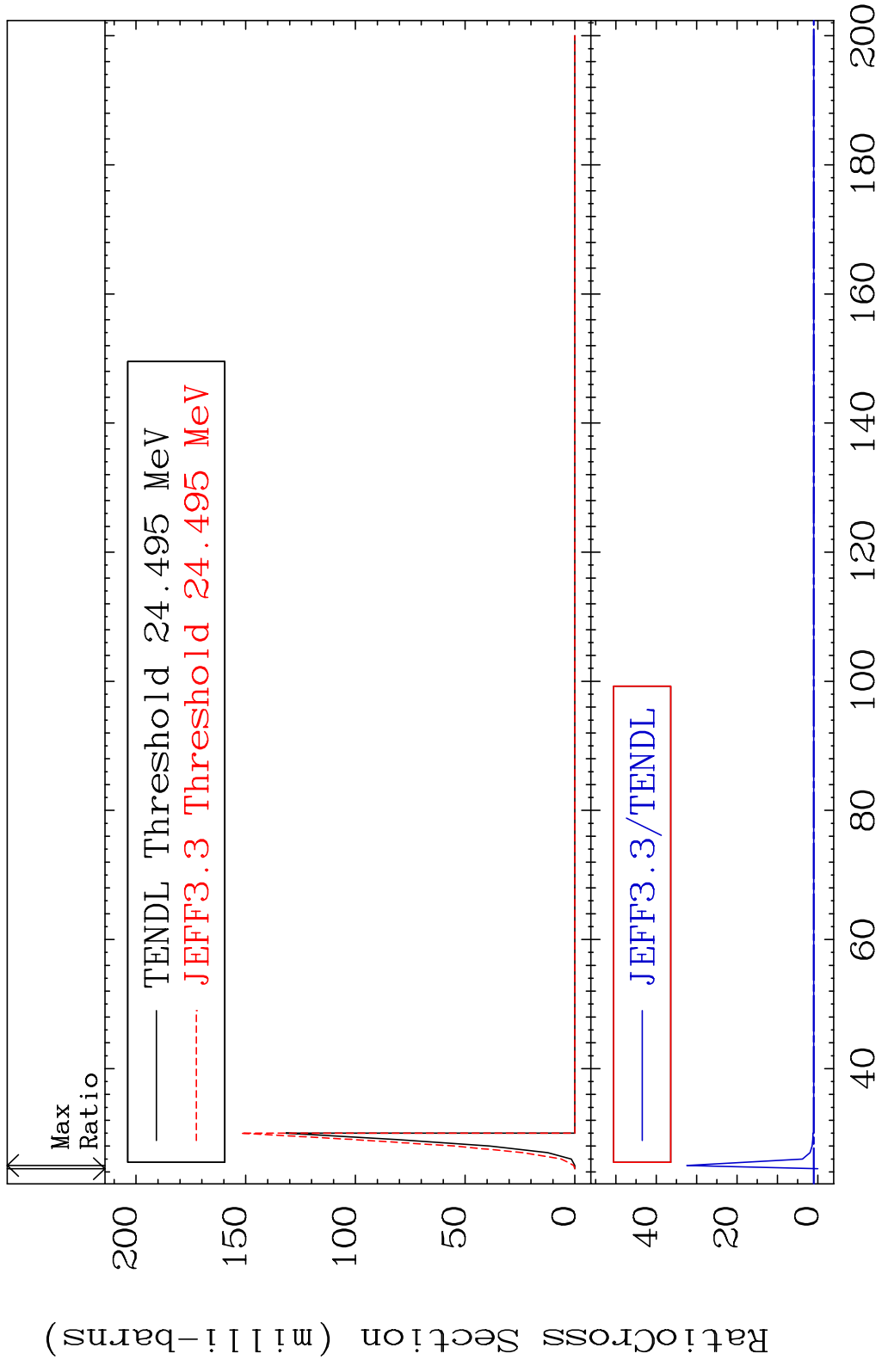




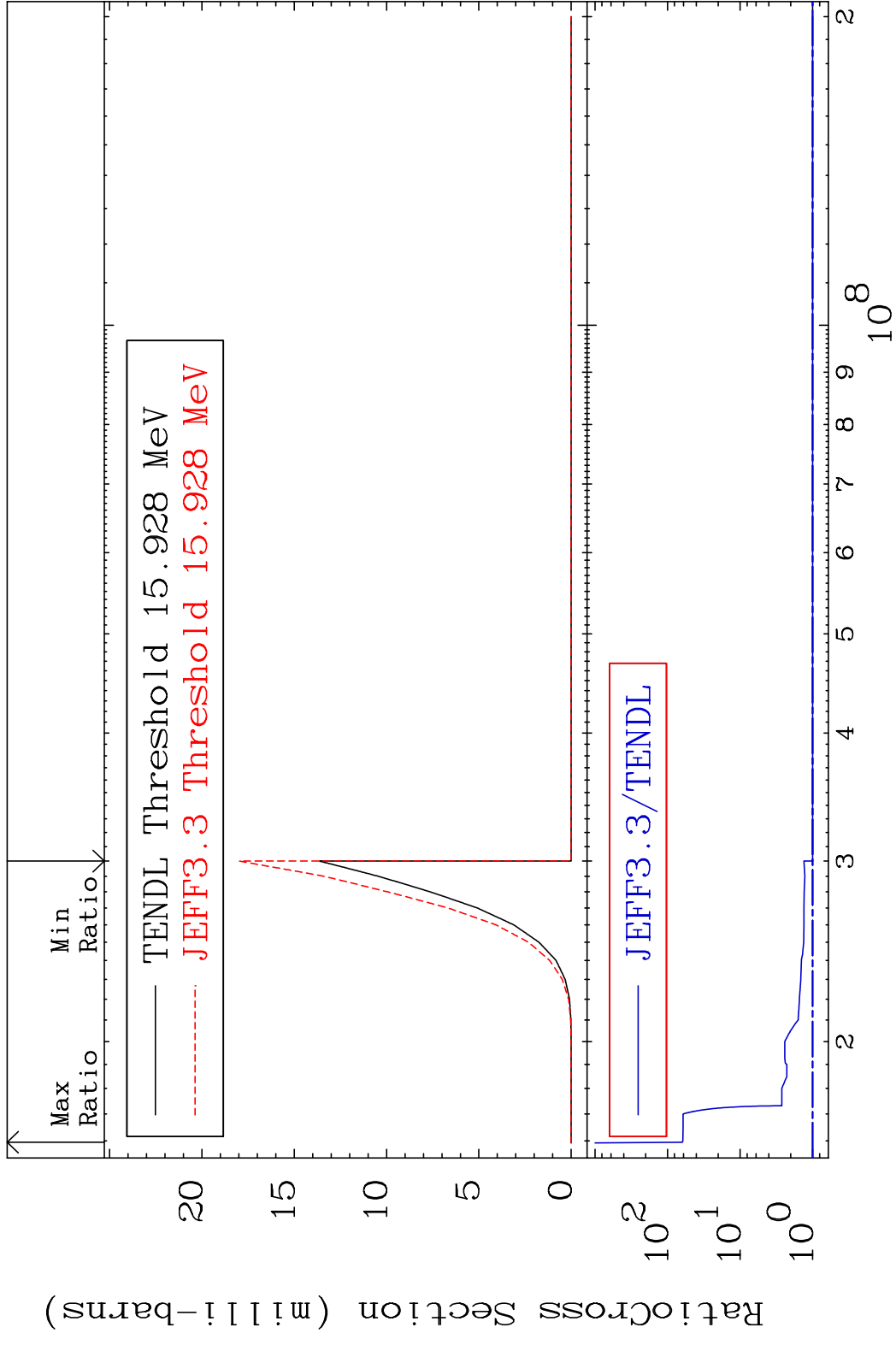
MAT 5137 (n,4n):51-Sb-122g 51-Sb-125  
 Radionuclide Production Cross Section 180.01 dth 1872. %

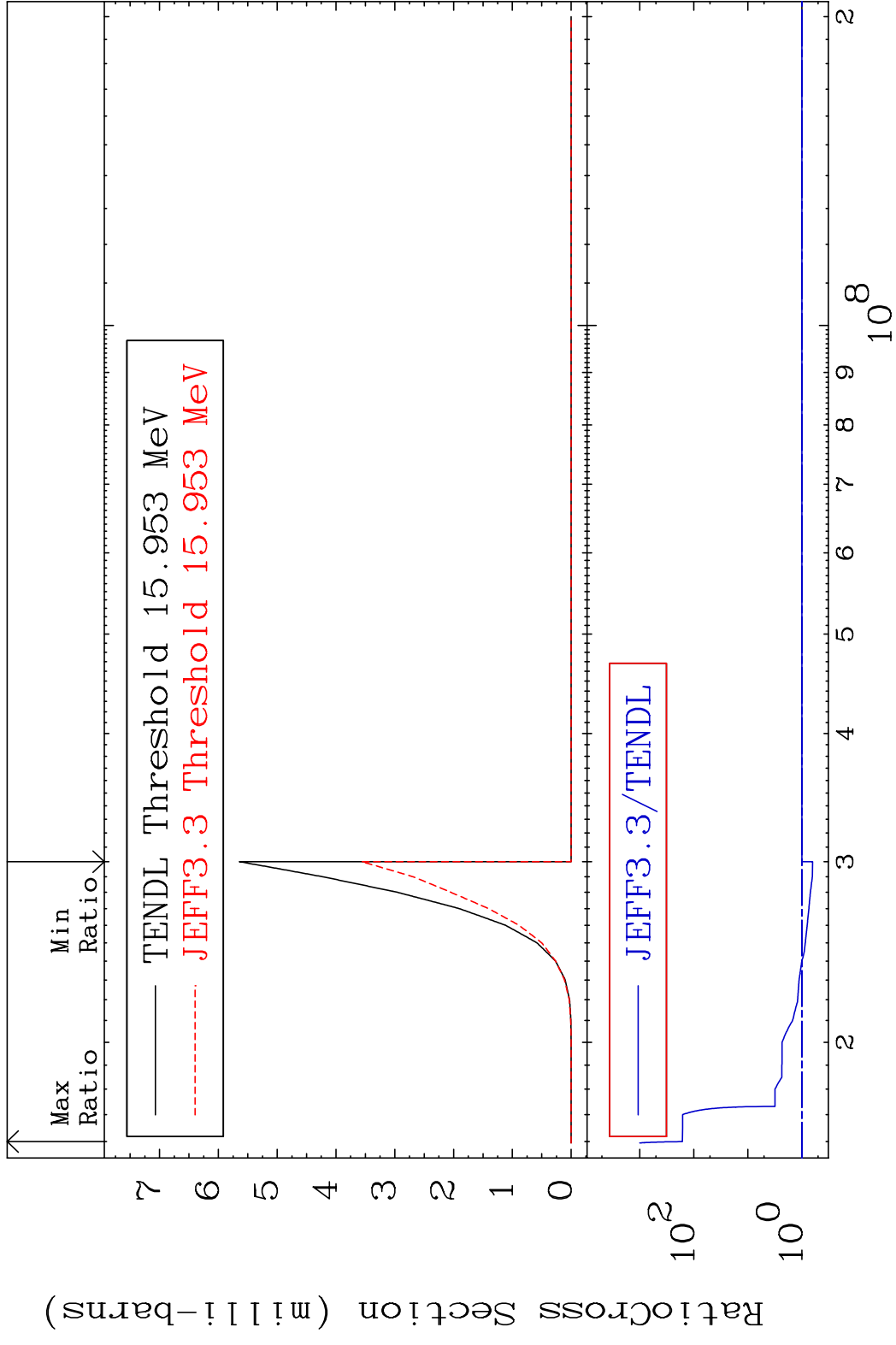


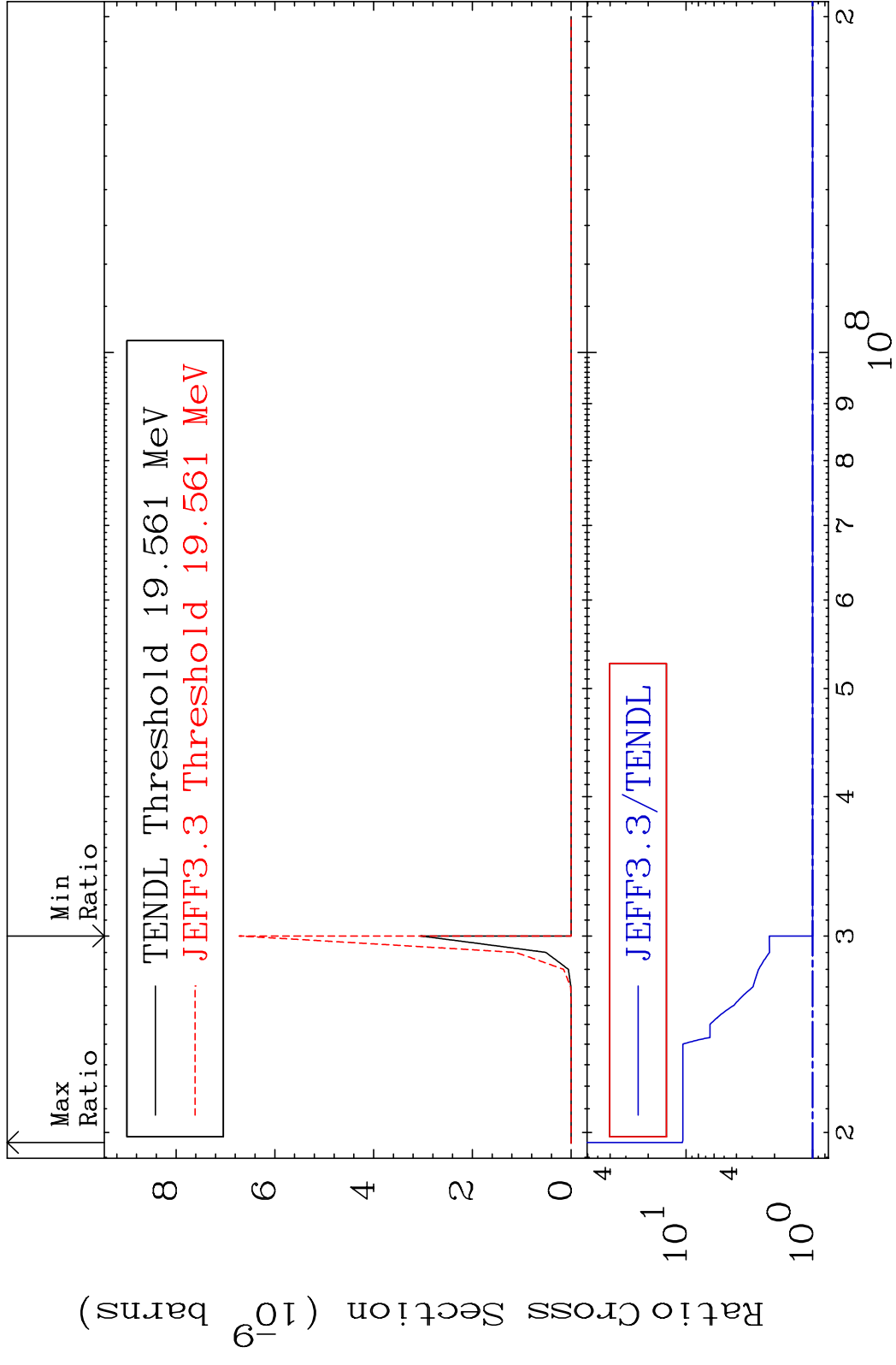
MAT 5137 (n, 4n):51-Sb-122m5 51-Sb-125  
 Radionuclide Production Cross Section 180.01 dth 3146. %

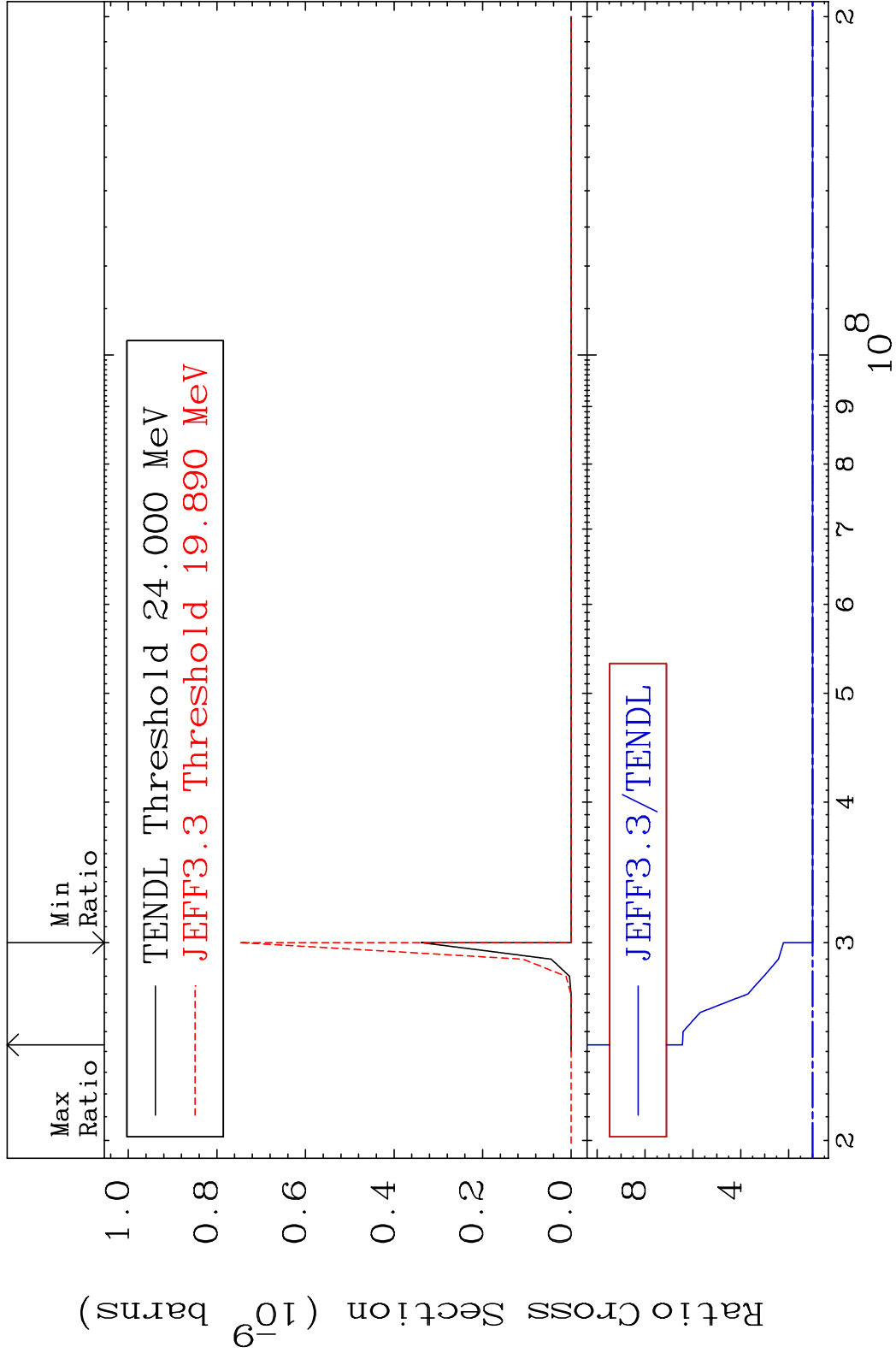


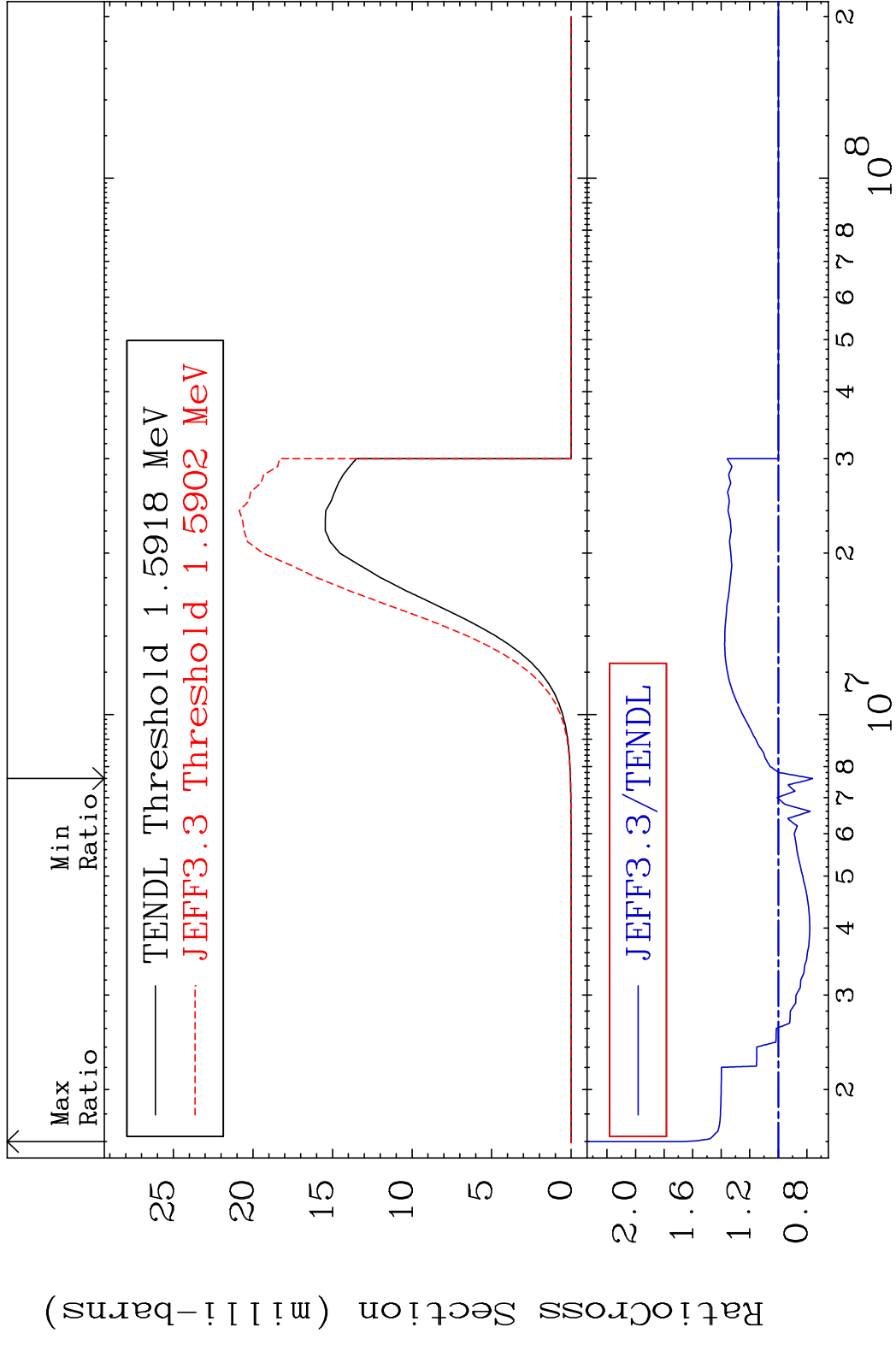
90 Incident Energy (MeV) 51-Sb-125



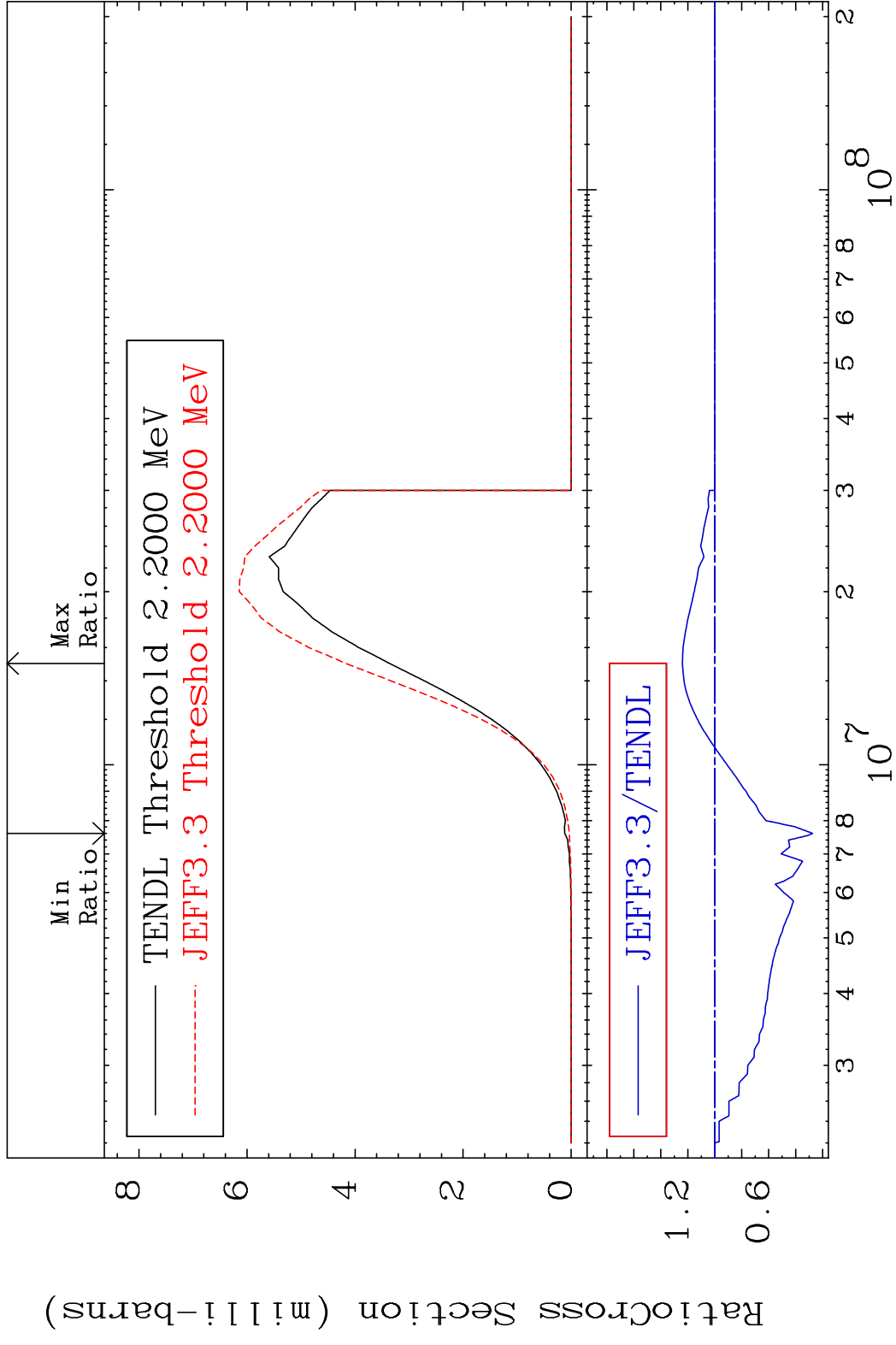




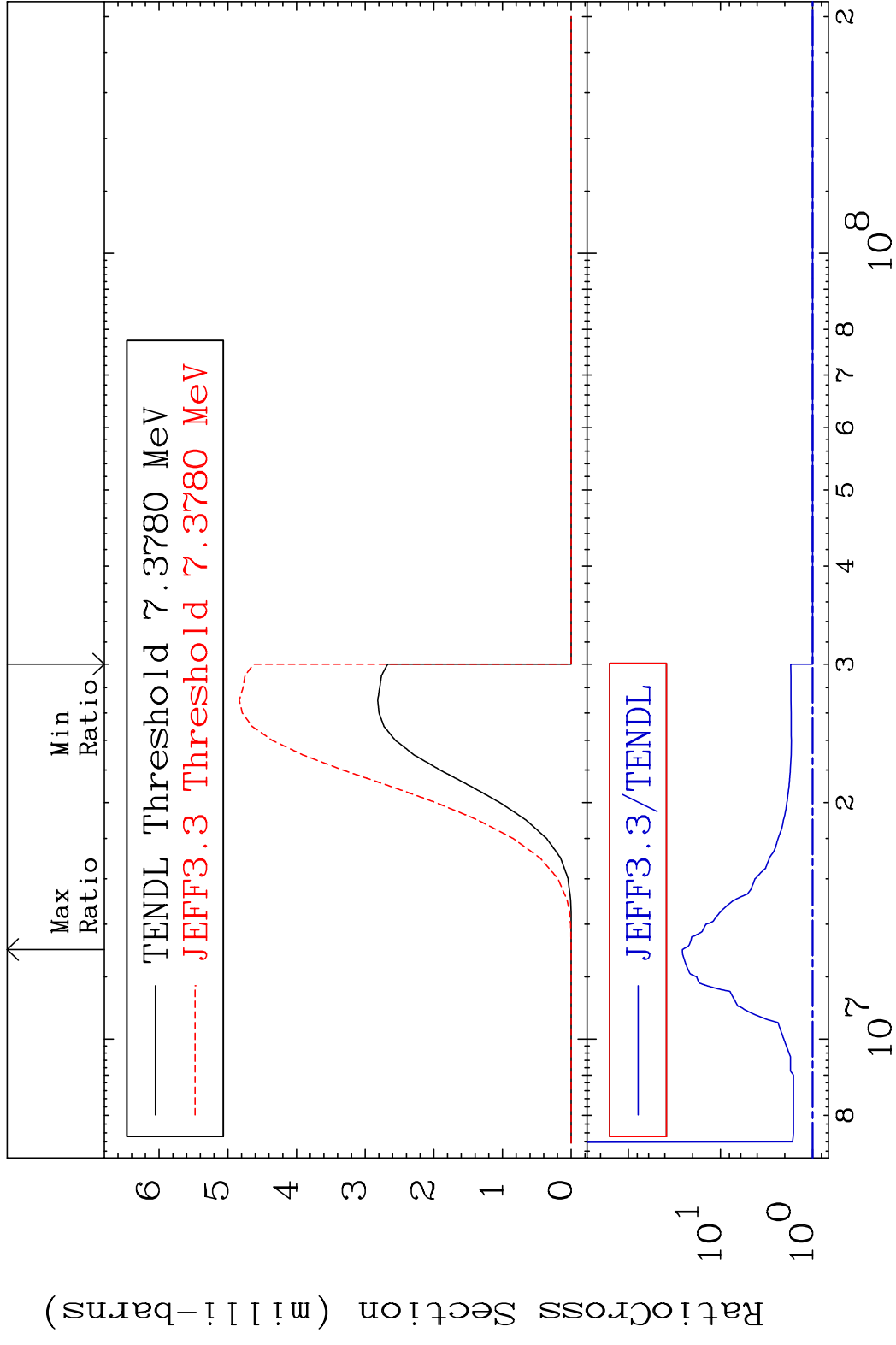


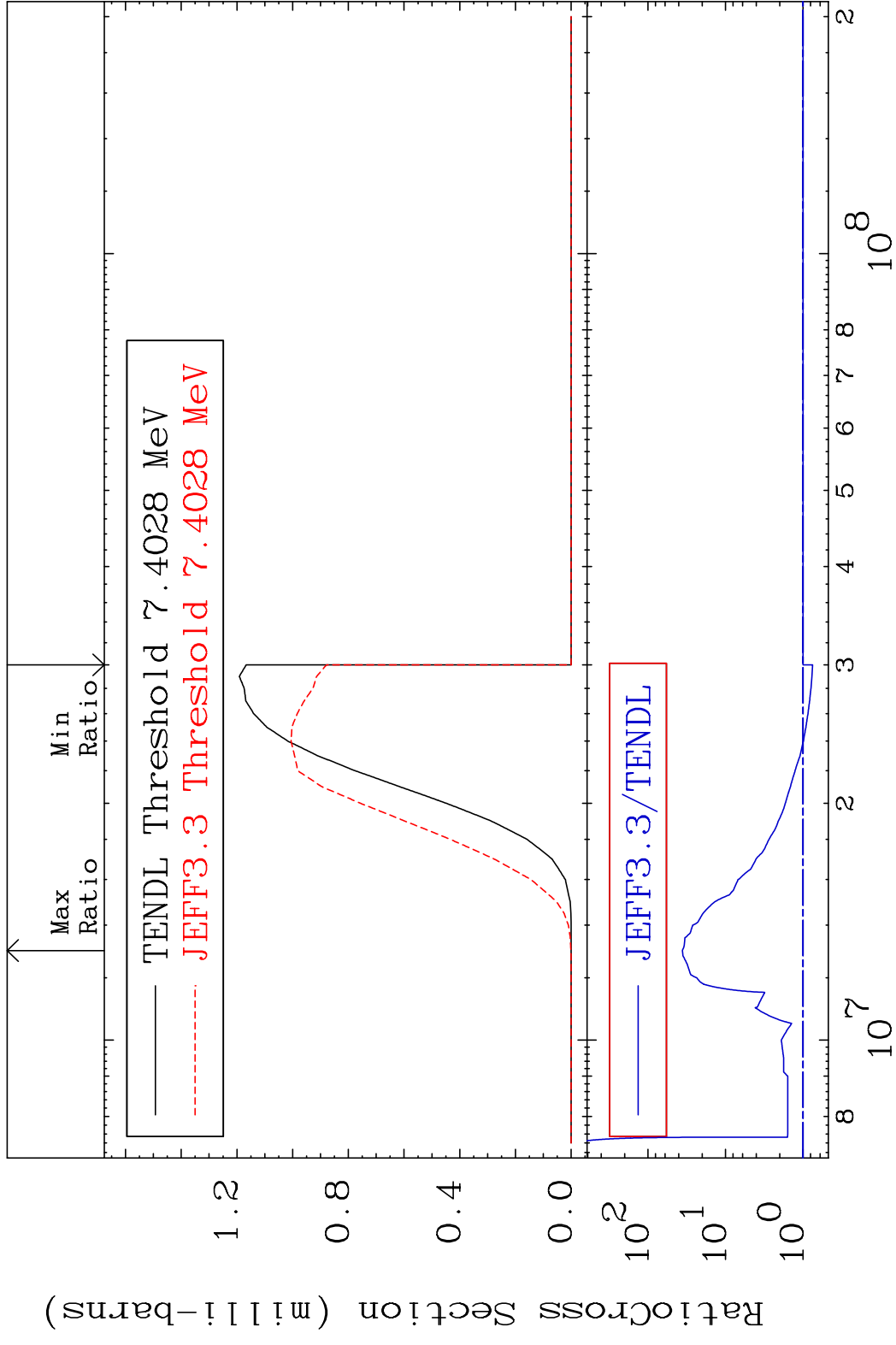


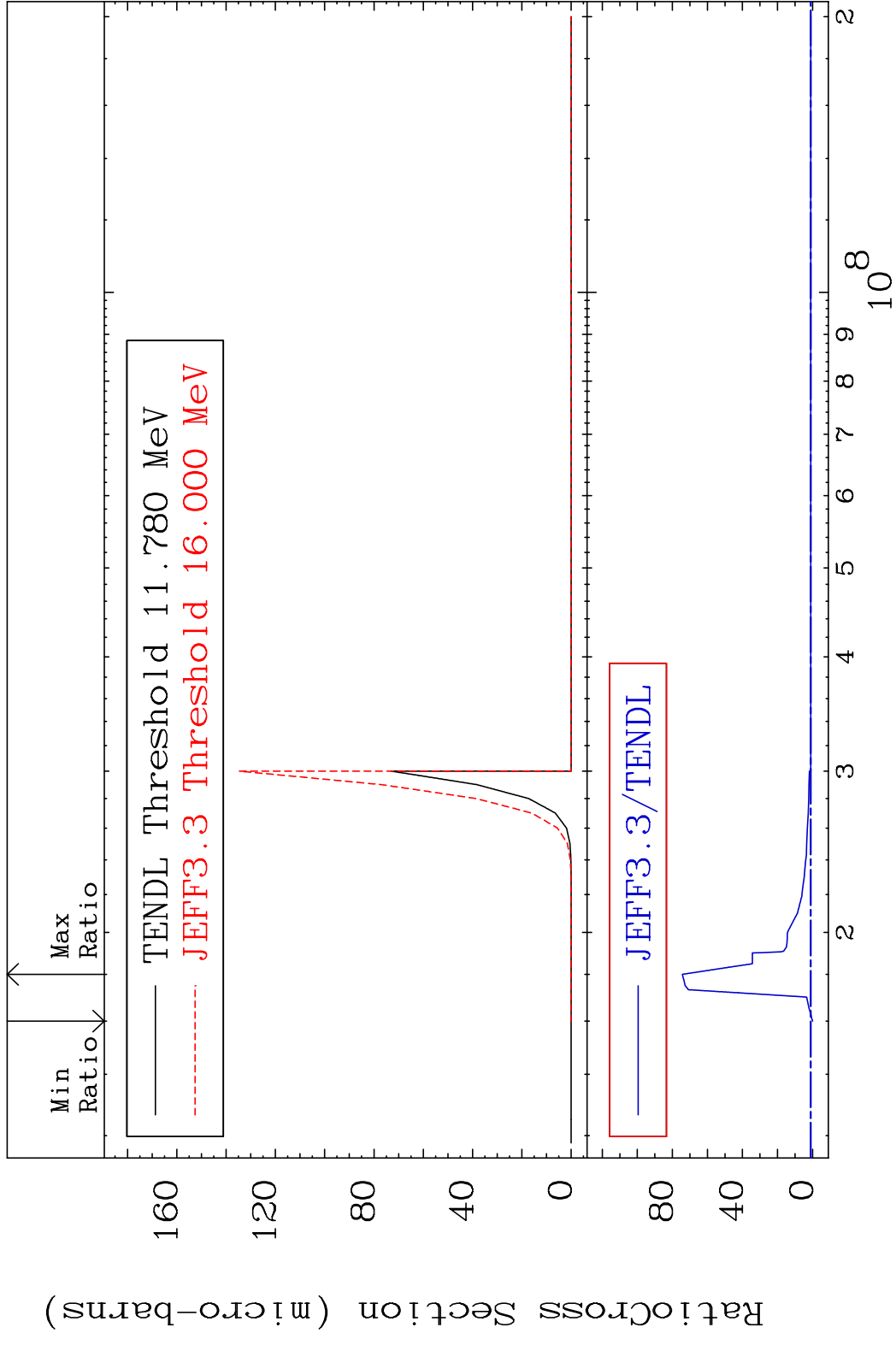


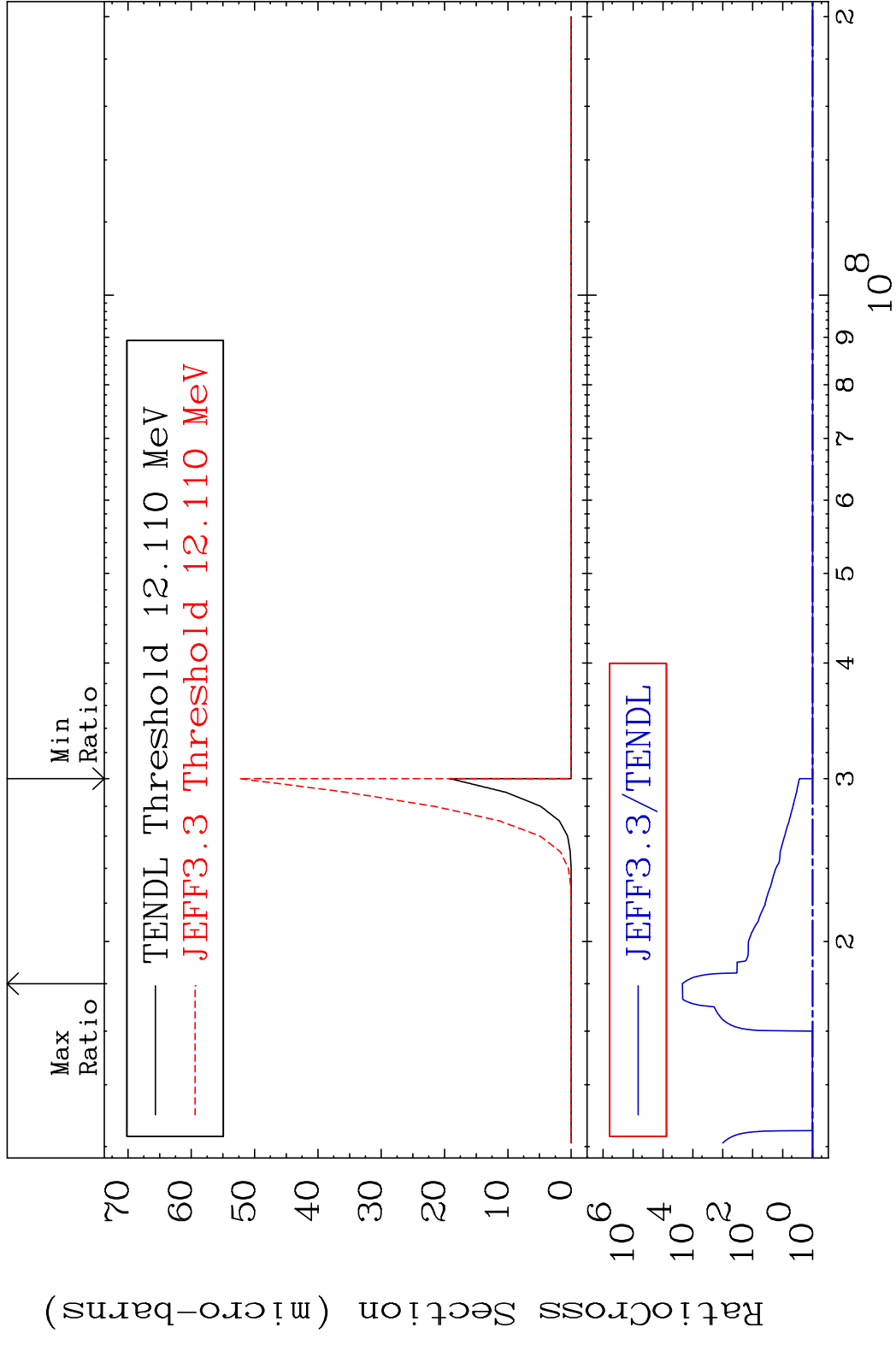


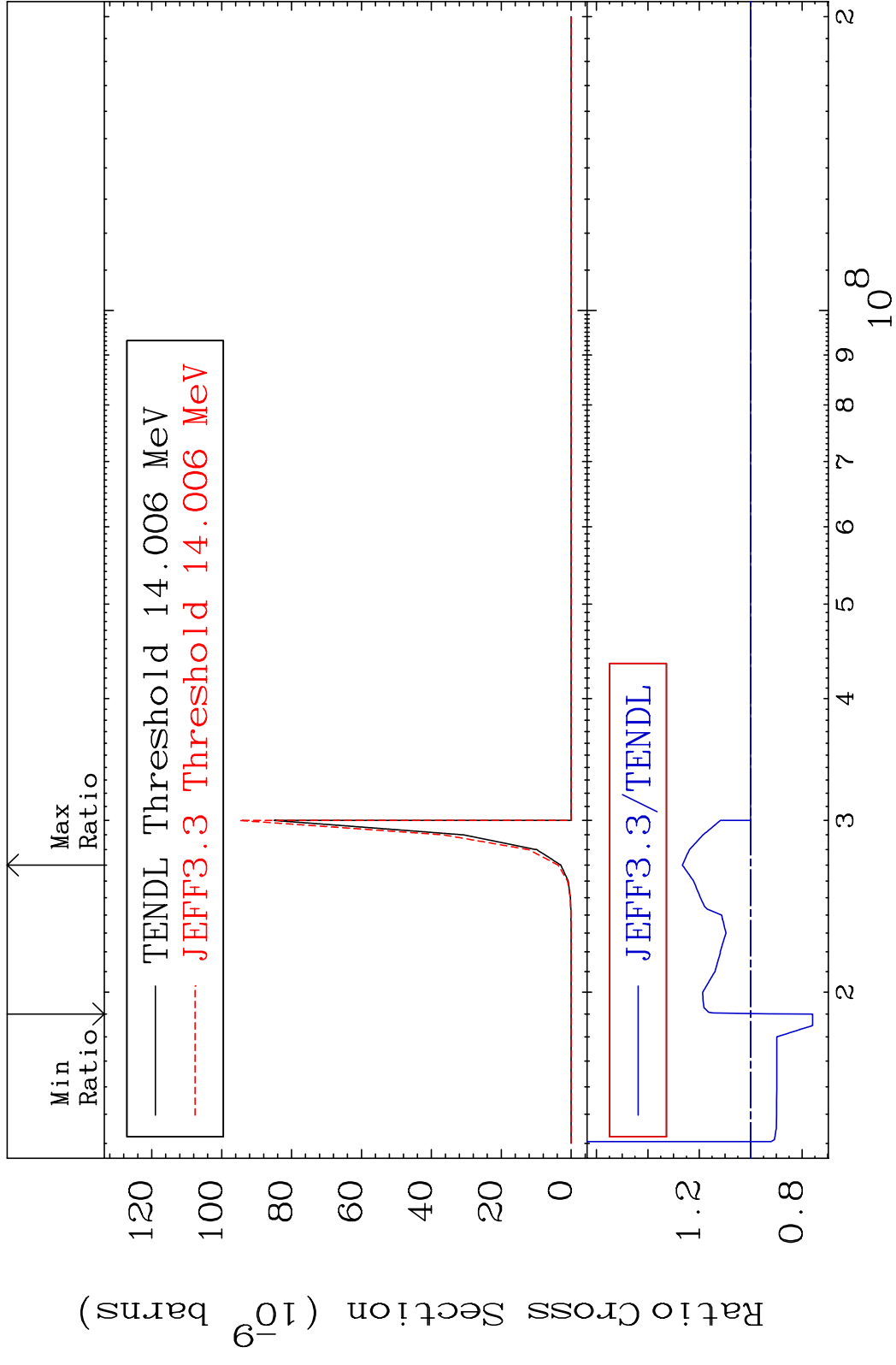
MAT 5137 (n, t):50-Sn-123g 51-Sb-125  
 Radionuclide Production Cross Section 2488. %

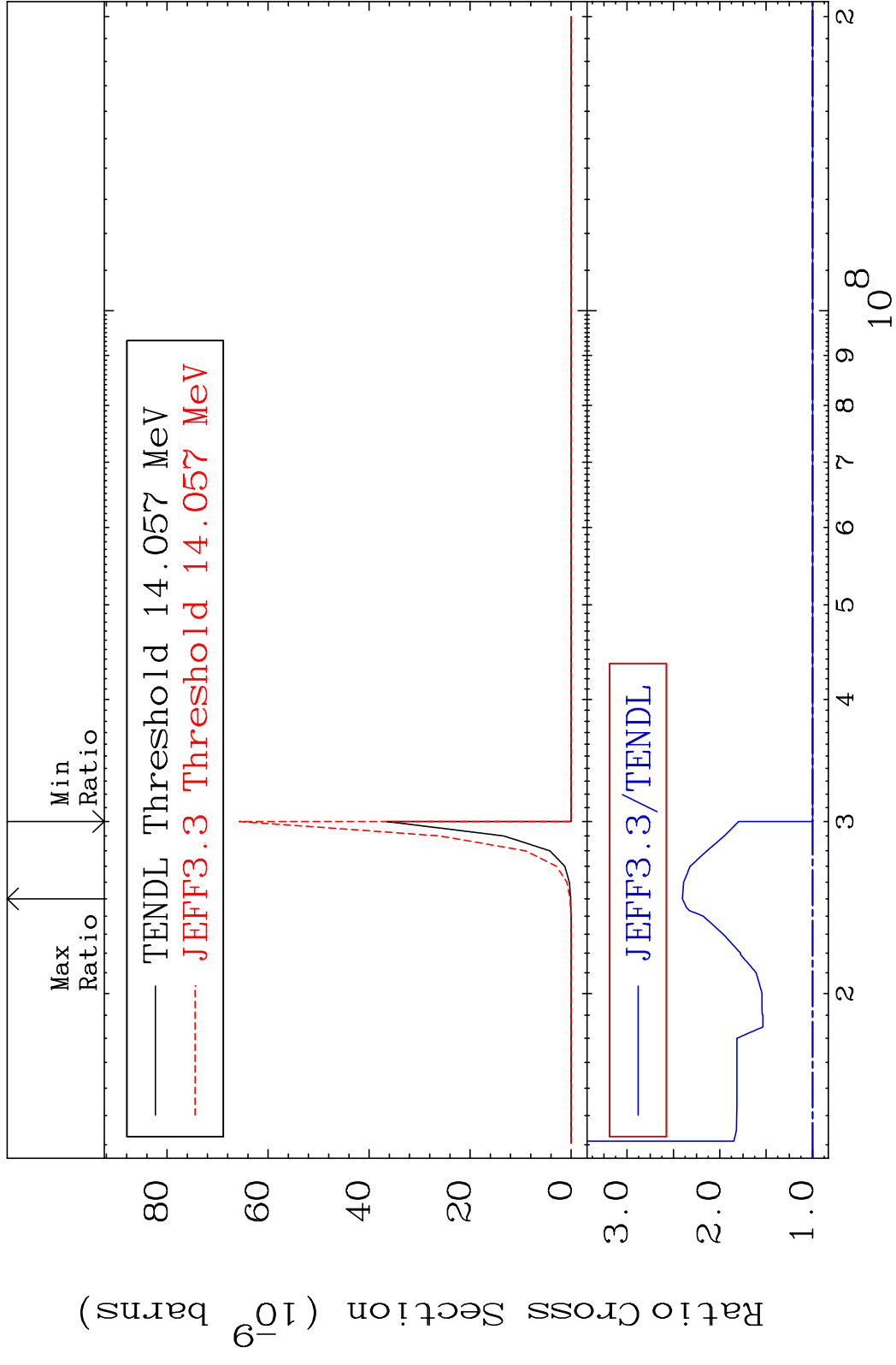




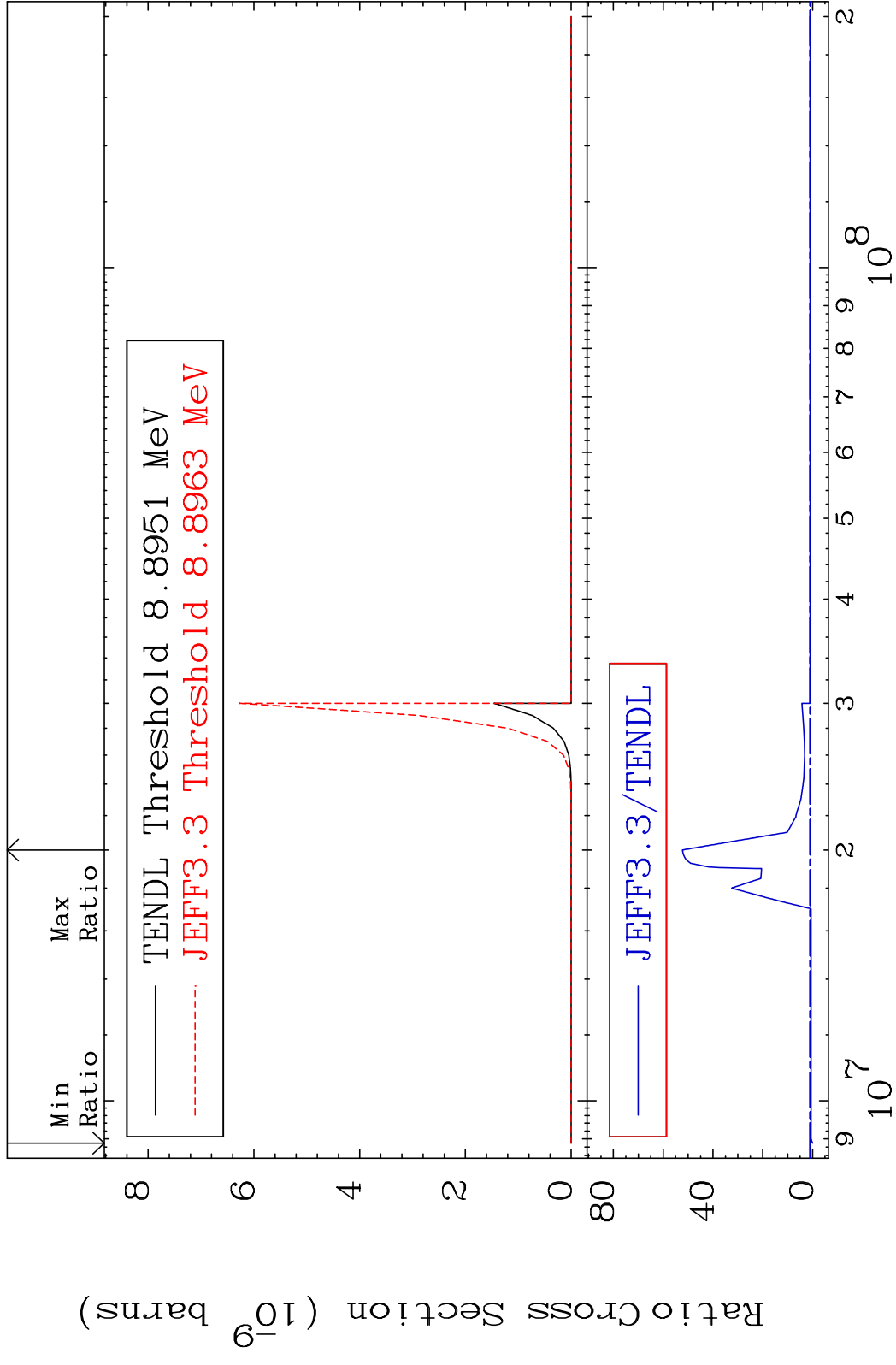






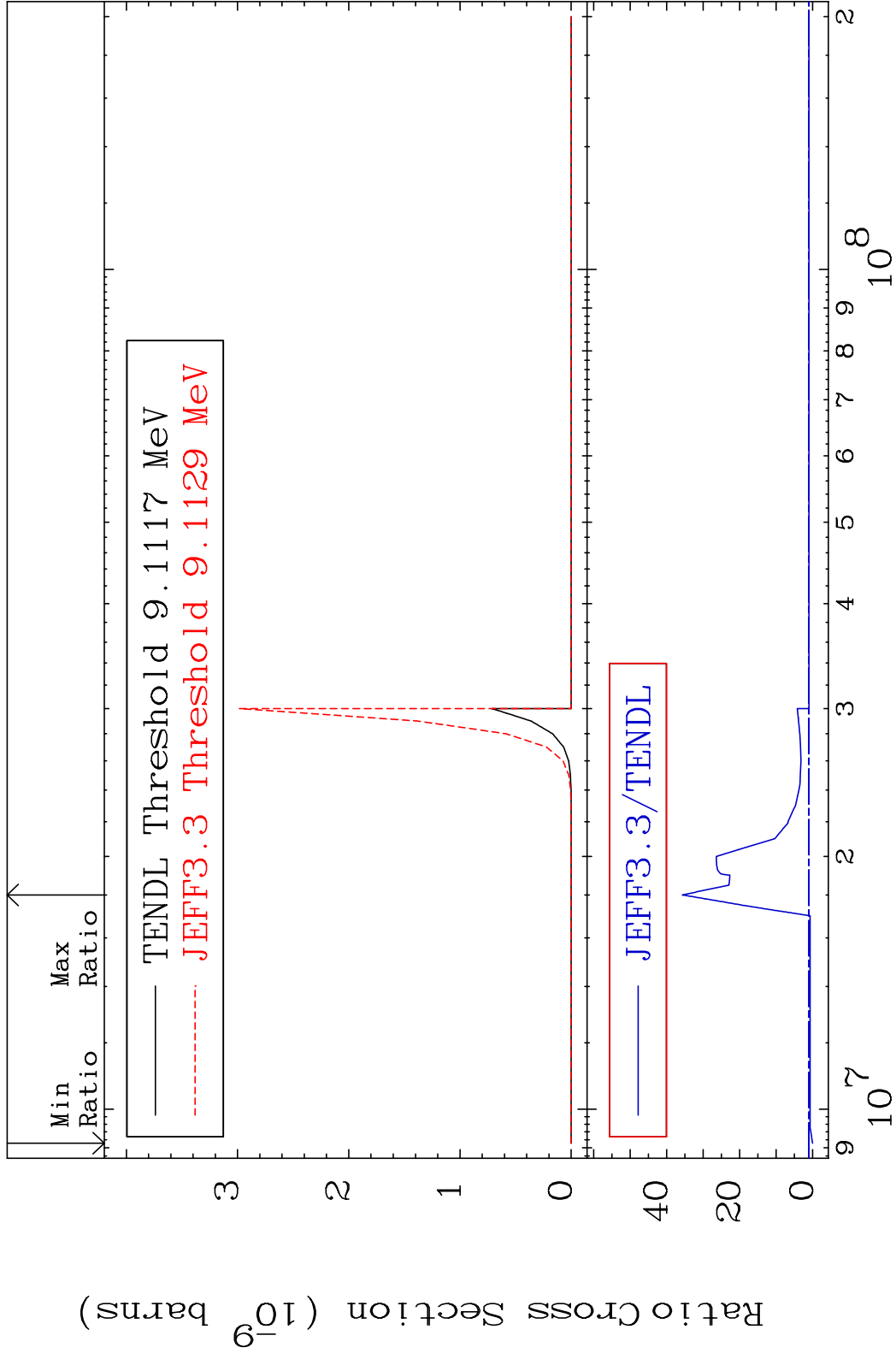


MAT 5137 (n,p)  $\alpha$ :48-Cd-121g 51-Sb-125  
 Radionuclide Production Cross Section 1800 d to 5130. %





MAT 5137 (n, p)  $\alpha$ : 48-Cd-121m2 51-Sb-125  
 Radionuclide Production Cross Section Ratio 3468. %



104 Incident Energy (eV) 51-Sb-125