

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

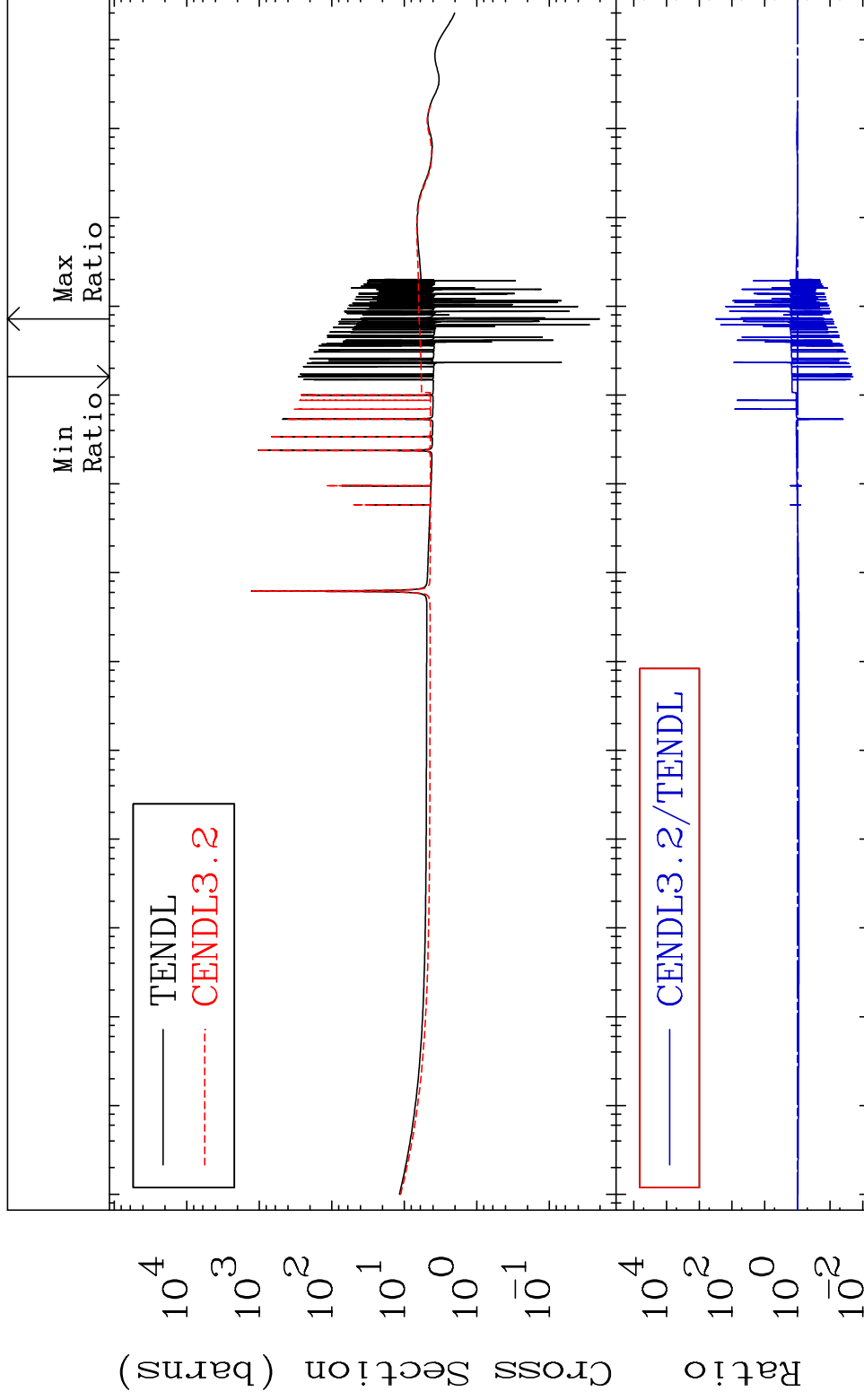
MAT 5061

Total

50-Sn-124

Cross Section

-97.97 To 9999. %



1

Incident Energy (eV)

50-Sn-124

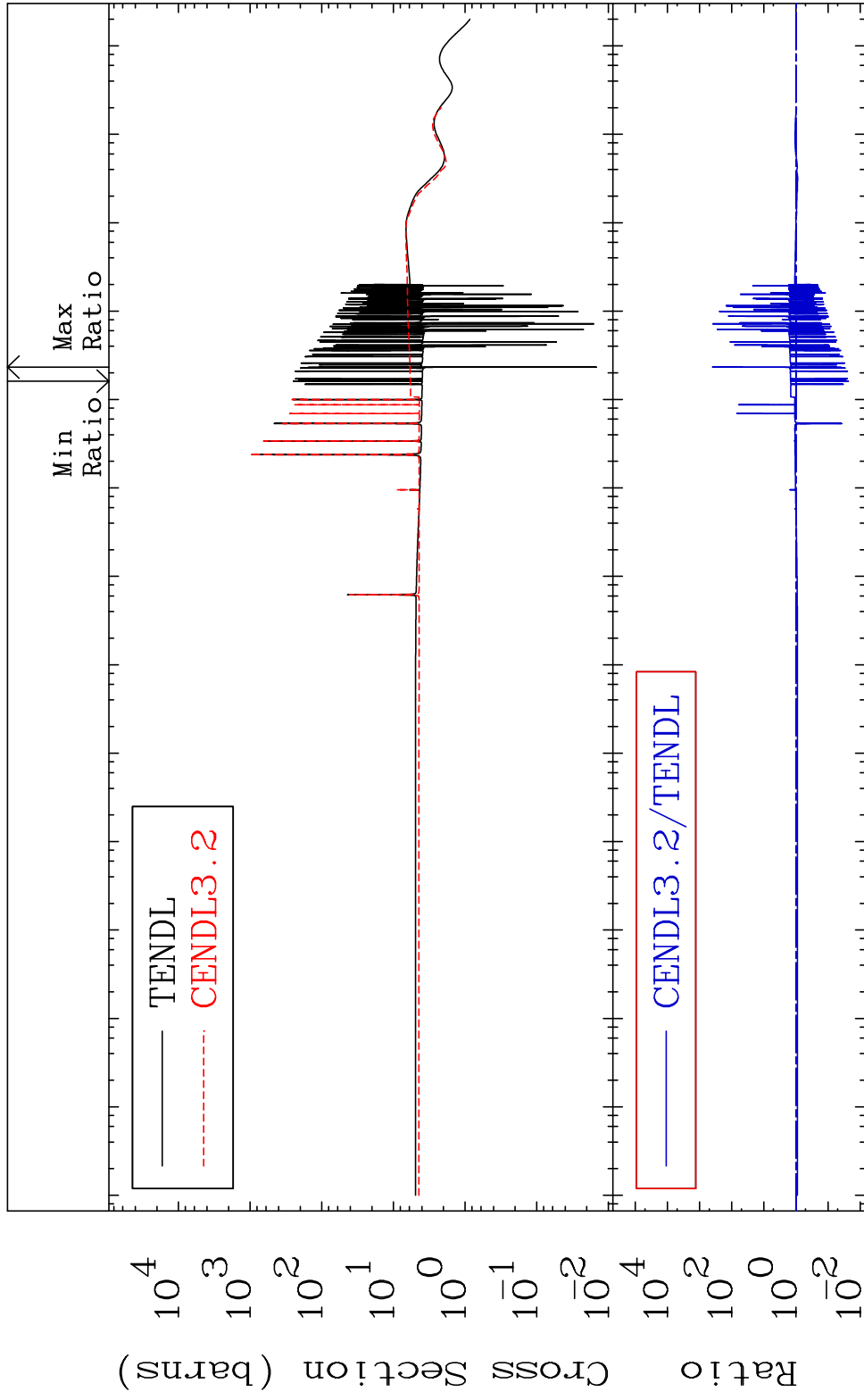
MAT 5061

Elastic

50-Sn-124

Cross Section

-97.66 To 9999. %



2

Incident Energy (eV)

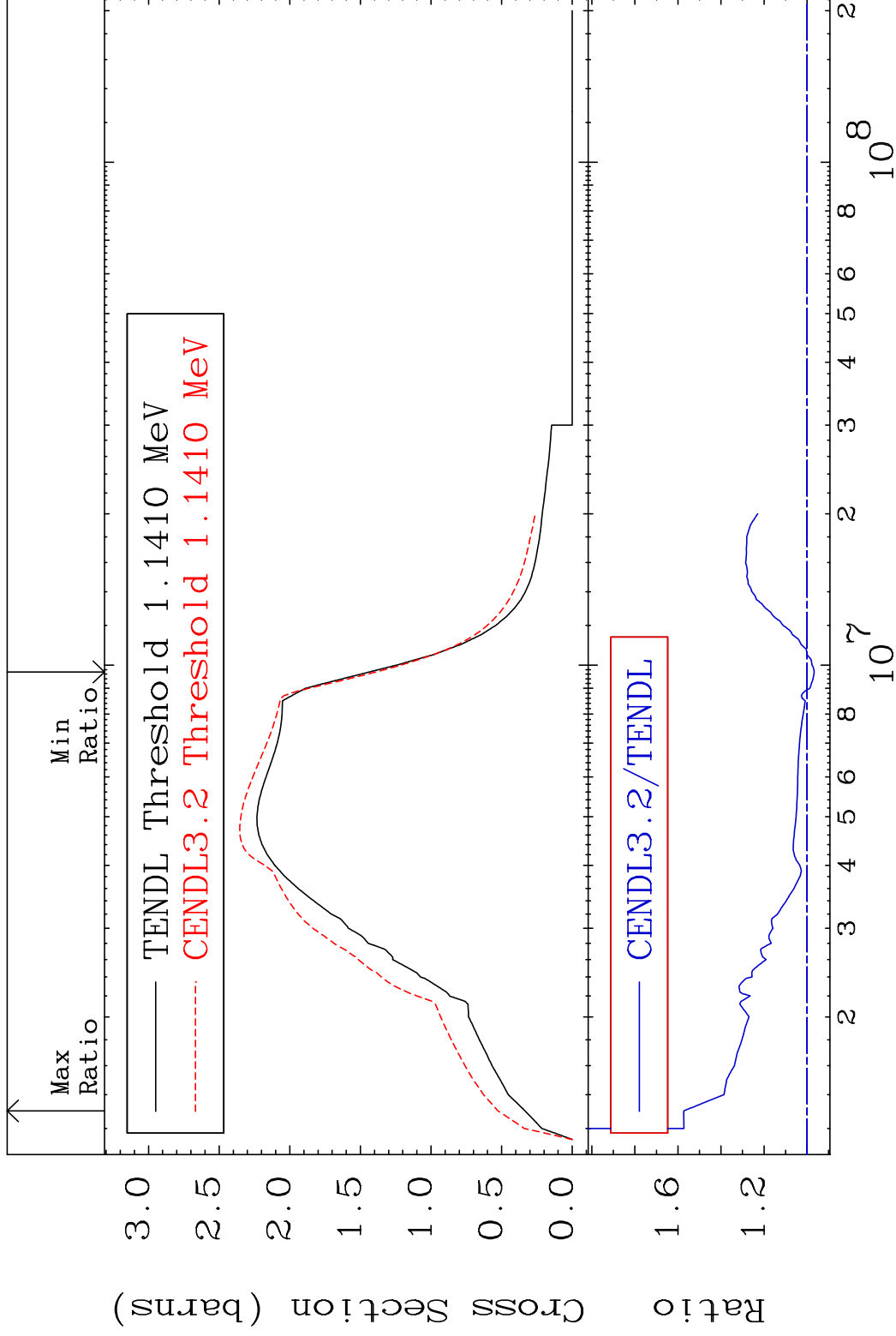
50-Sn-124

MAT 5061

Inelastic

50-Sn-124

Cross Section -3.260 To 57.34 %



3

Incident Energy (eV)

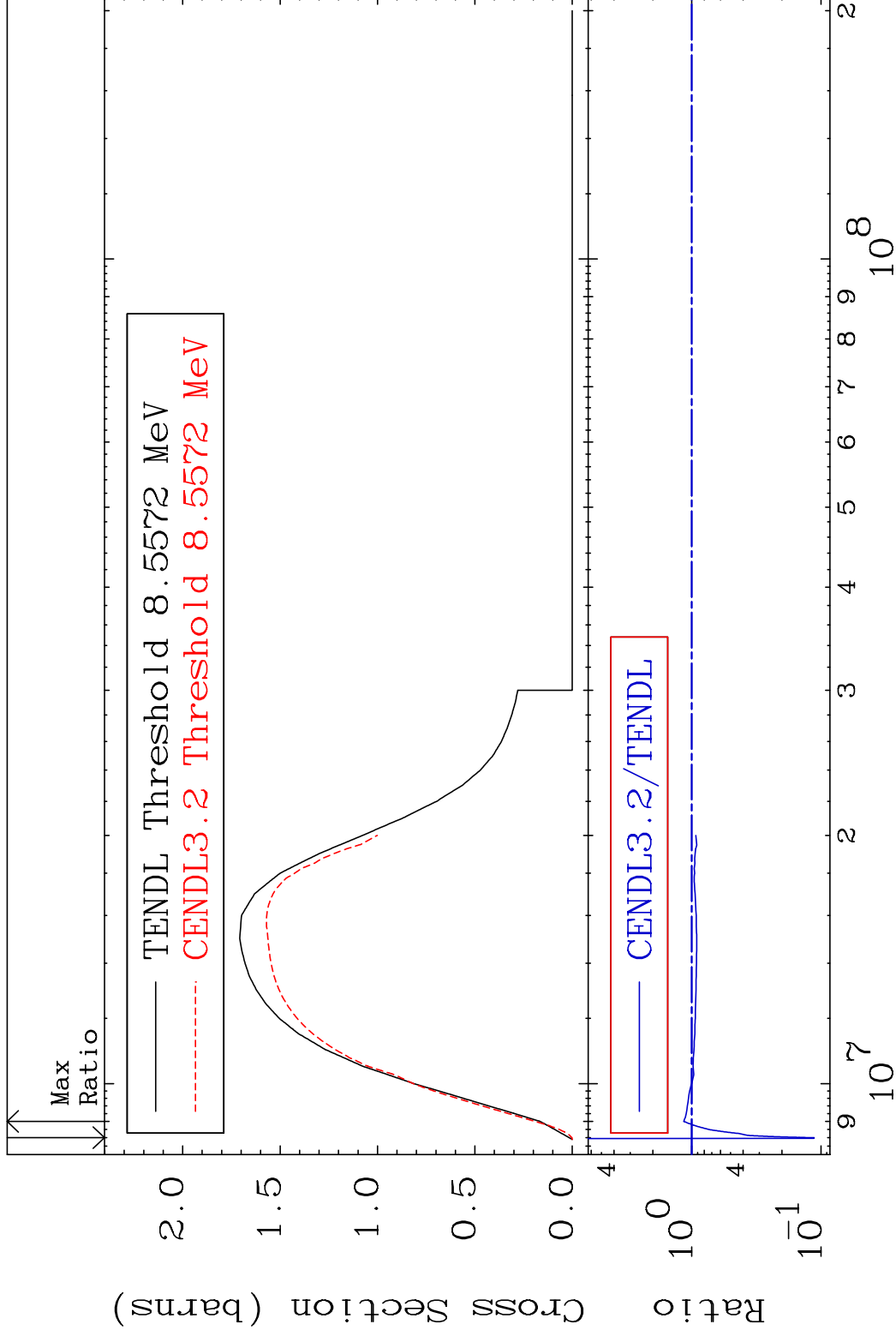
50-Sn-124

MAT 5061

(n,2n)

50-Sn-124

Cross Section -88.71 To 15.55 %



4

Incident Energy (eV)

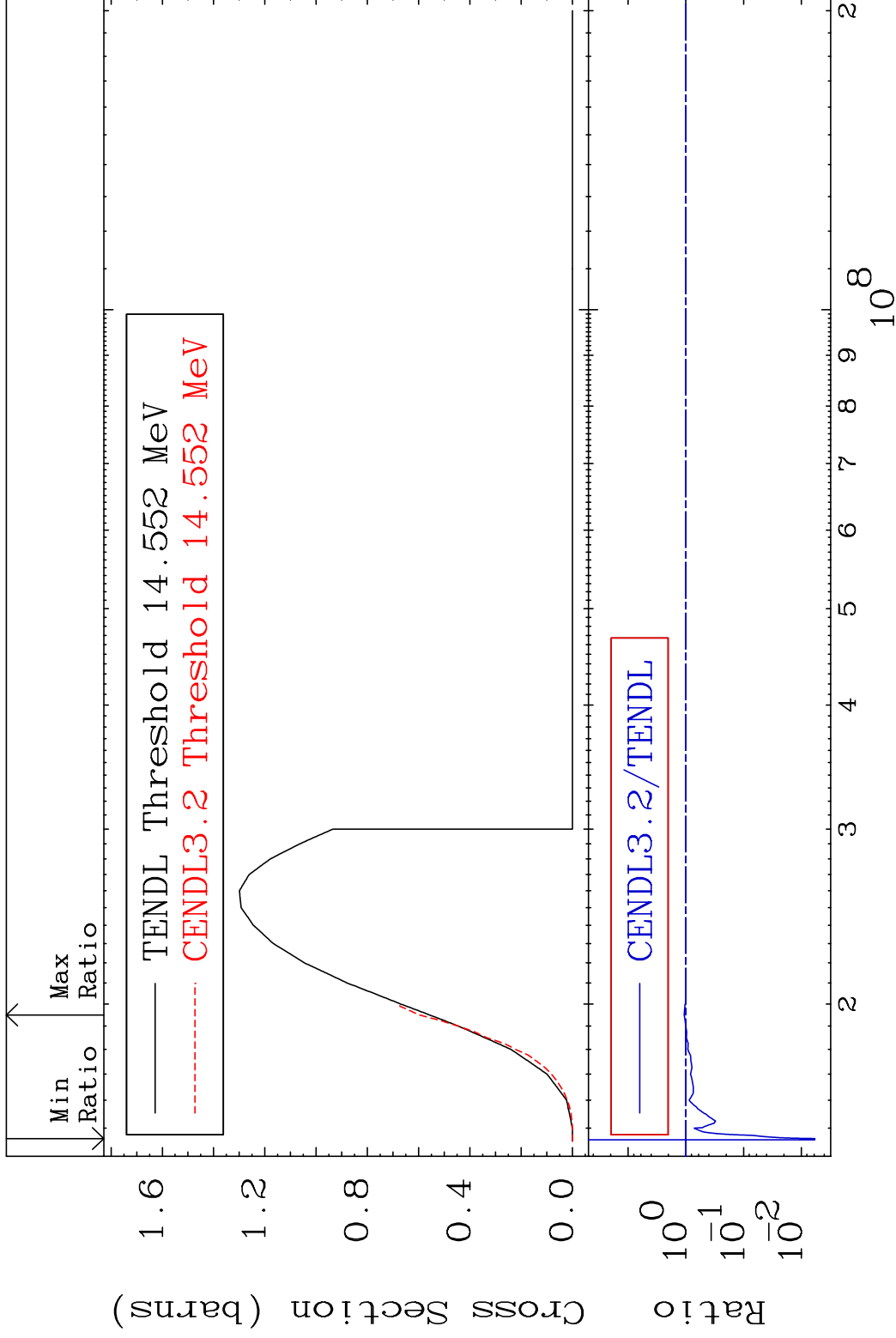
50-Sn-124

MAT 5061

(n,3n)

50-Sn-124

Cross Section -99.42 To 7.155 %



5

Incident Energy (eV)

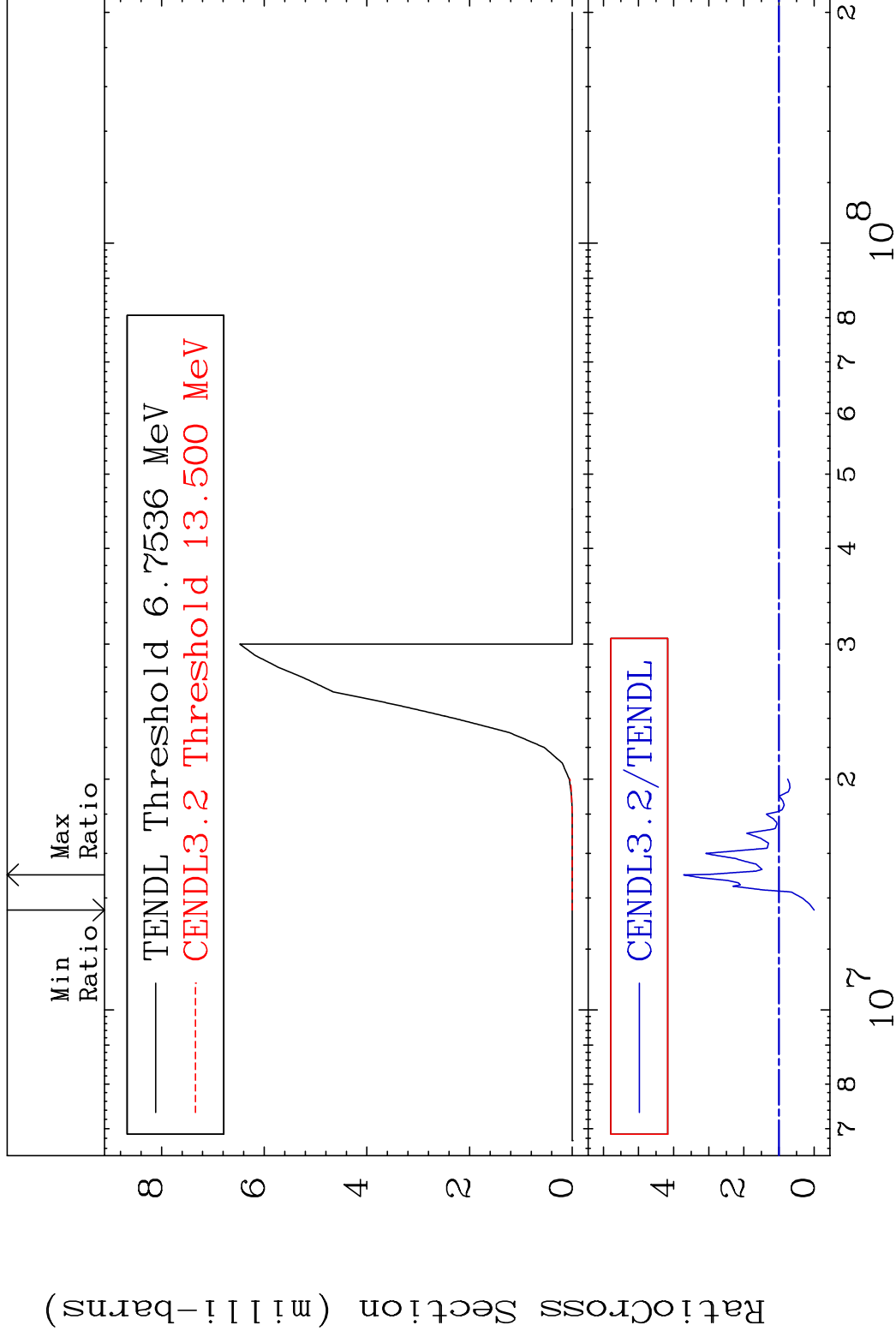
50-Sn-124

MAT 5061

(n, n')  $\alpha$

50-Sn-124

Cross Section -100.0 To 271.5 %



6

Incident Energy (eV)

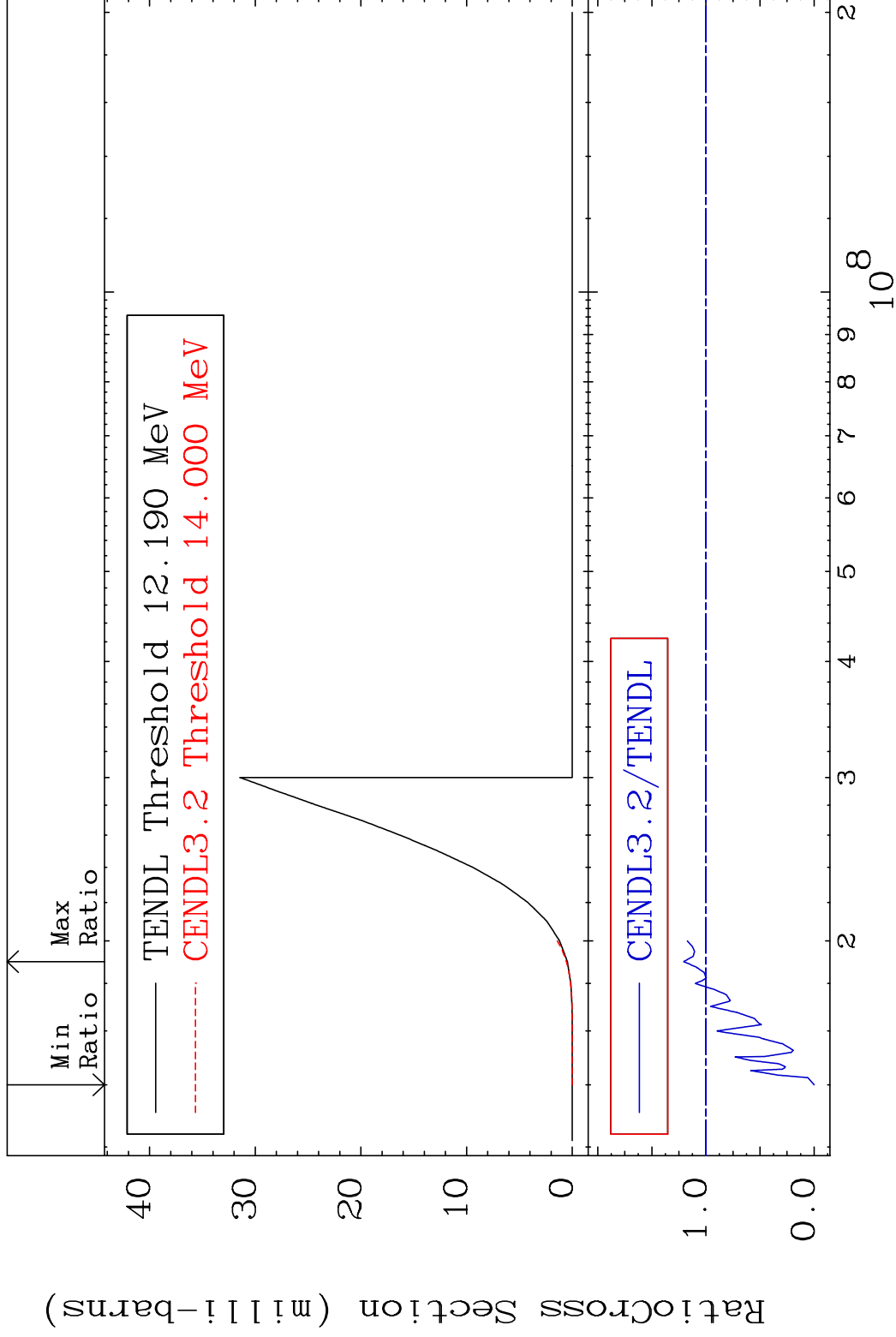
50-Sn-124

MAT 5061

(n, n') p

50-Sn-124

Cross Section -100.0 To 20.58 %



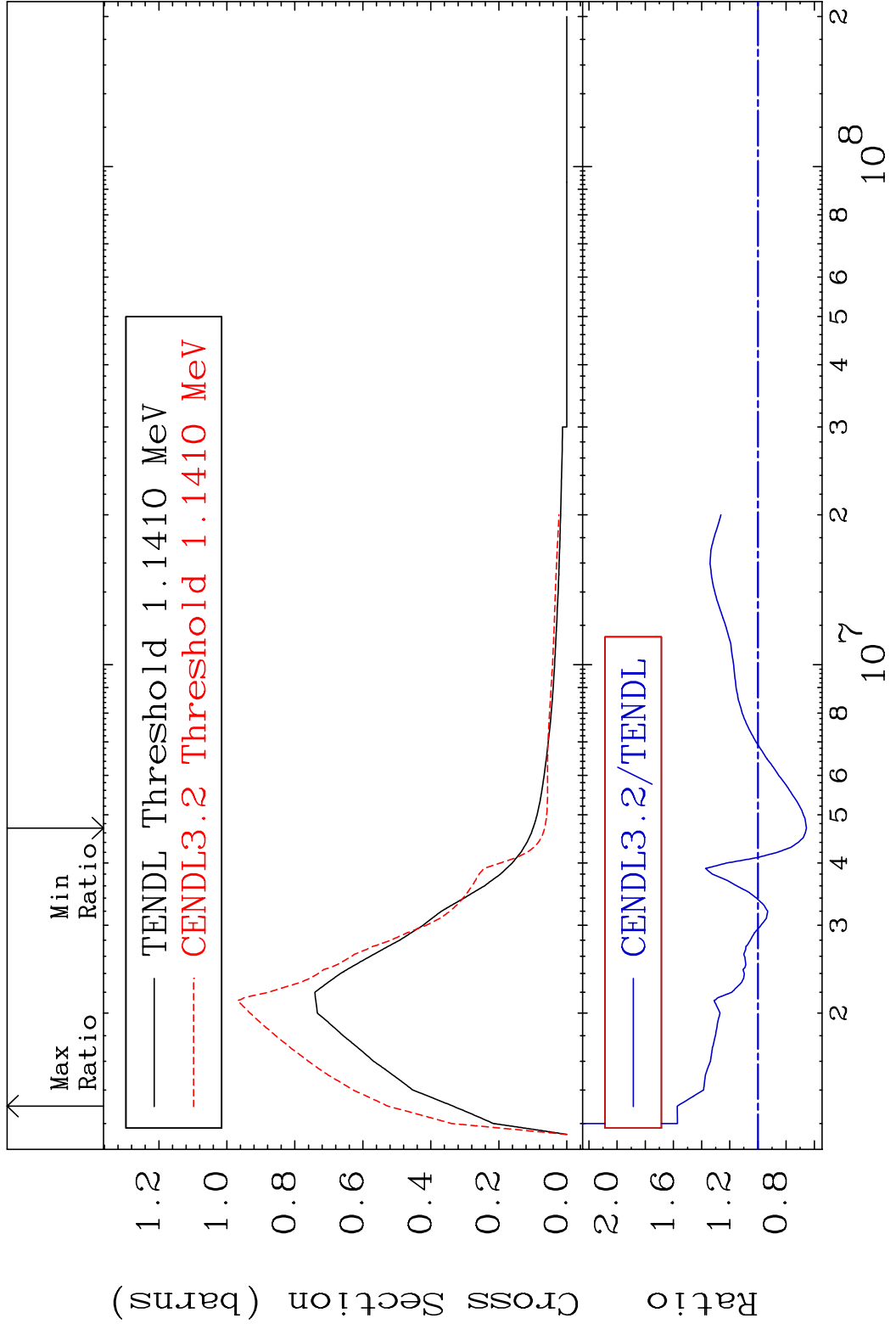
7

Incident Energy (eV)

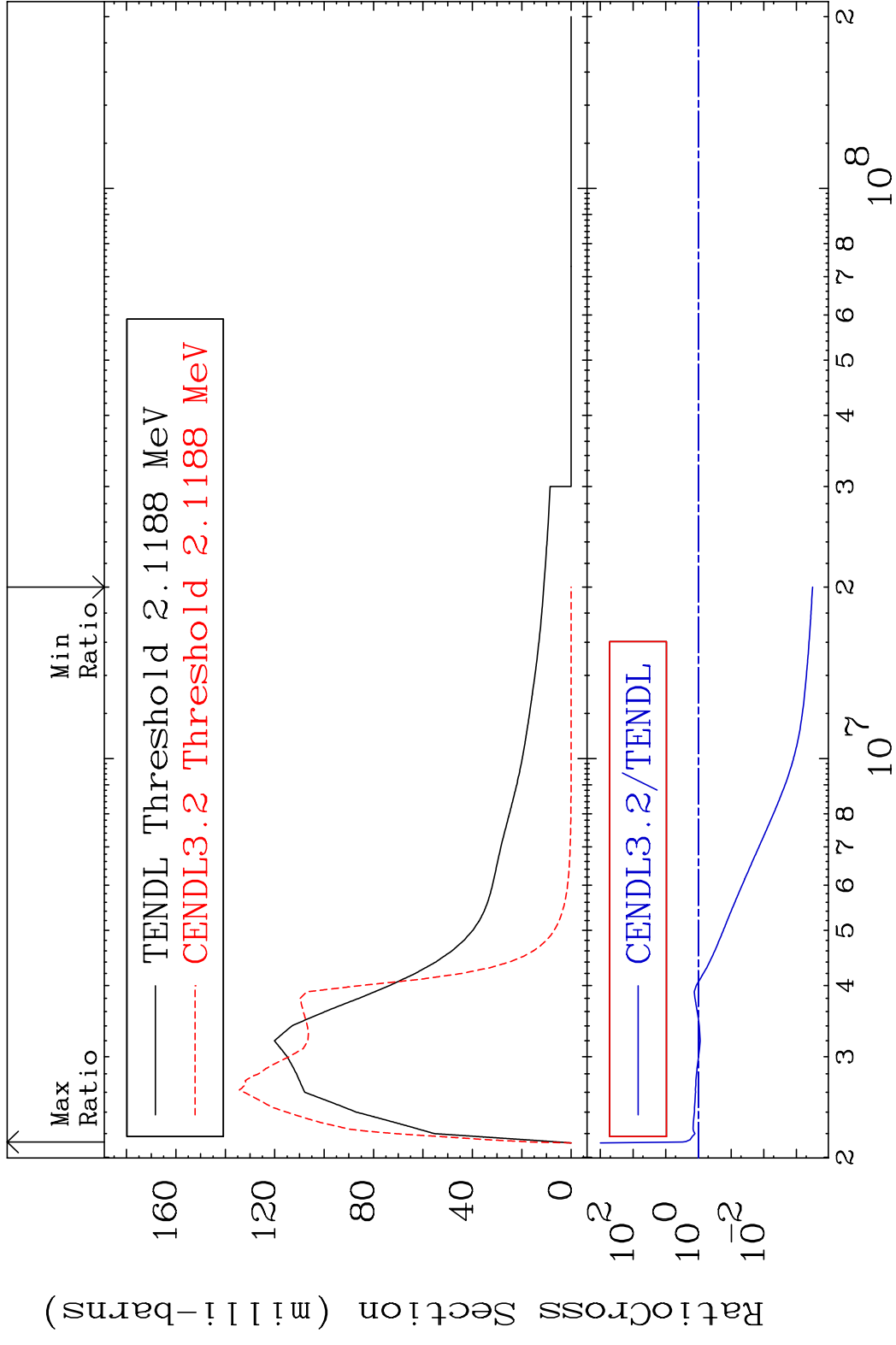
50-Sn-124



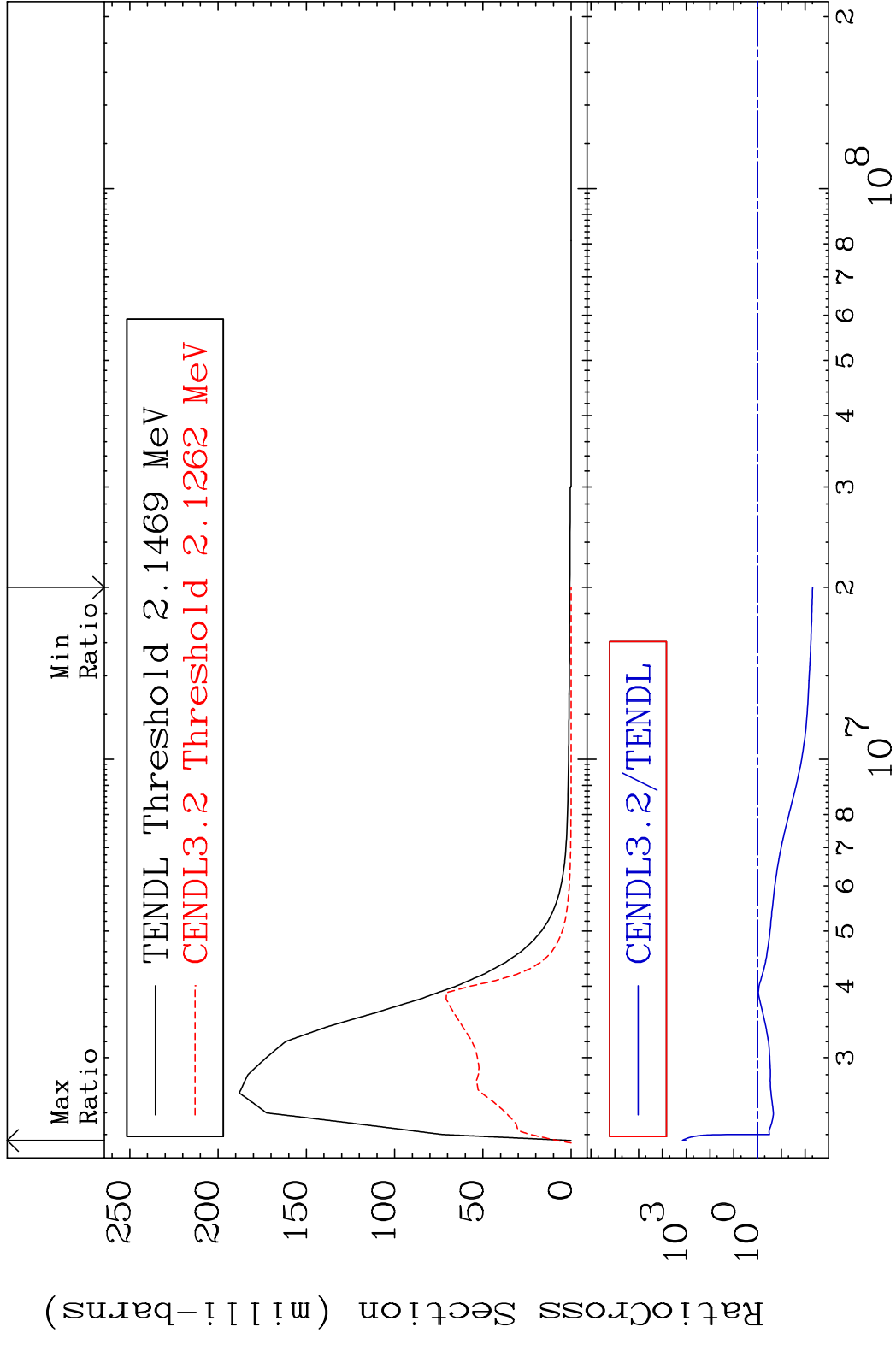
MAT 5061 MT= 51 (n,n') Level 50-Sn-124  
 Cross Section -34.39 To 57.34 %



MAT 5061 MT= 52 (n, n') Level 50-Sn-124  
 Cross Section -99.97 To 210.3 %

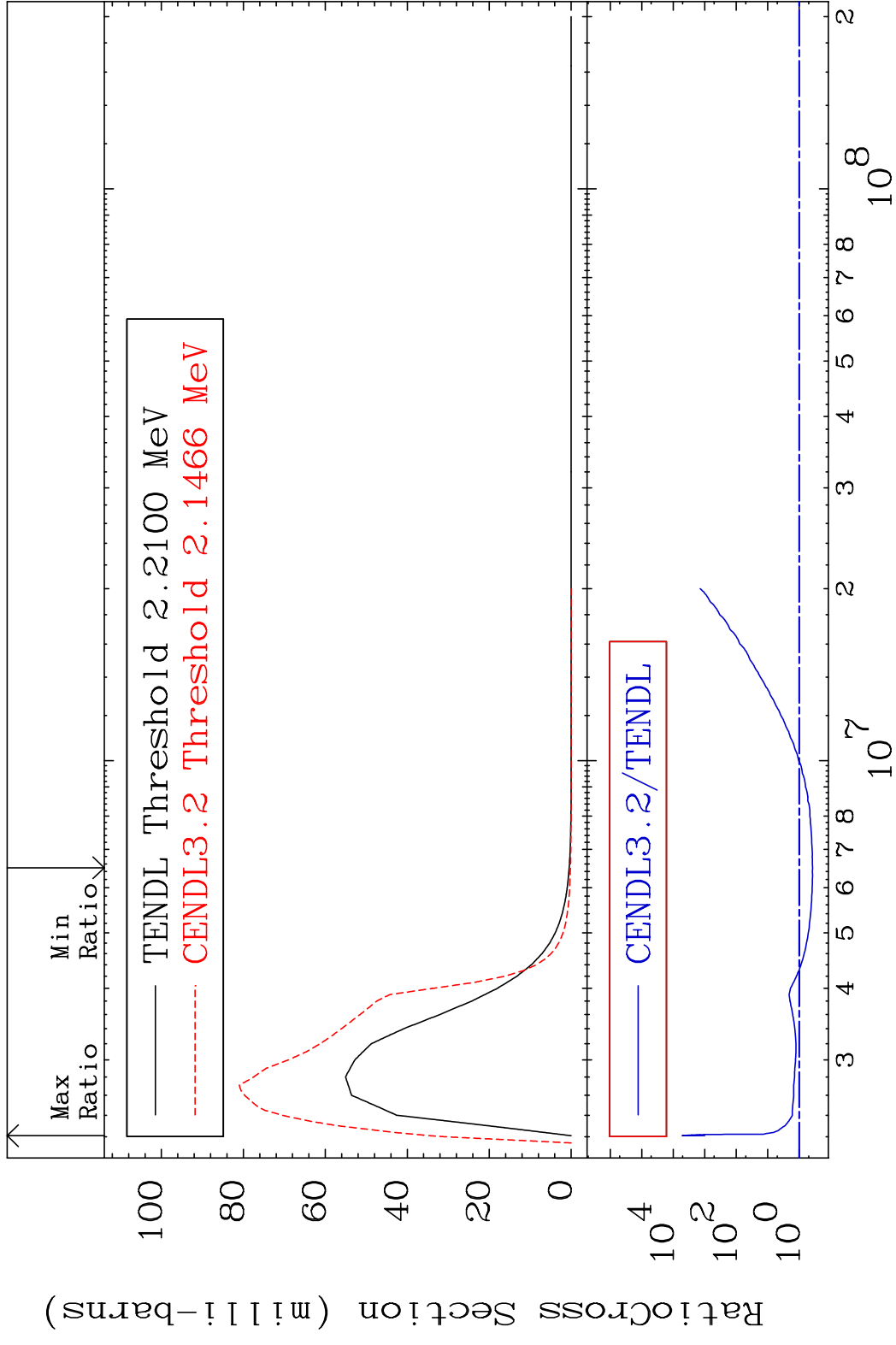


MAT 5061 MT= 53 (n, n') Level 50-Sn-124  
 Cross Section -99.51 To 9999. %

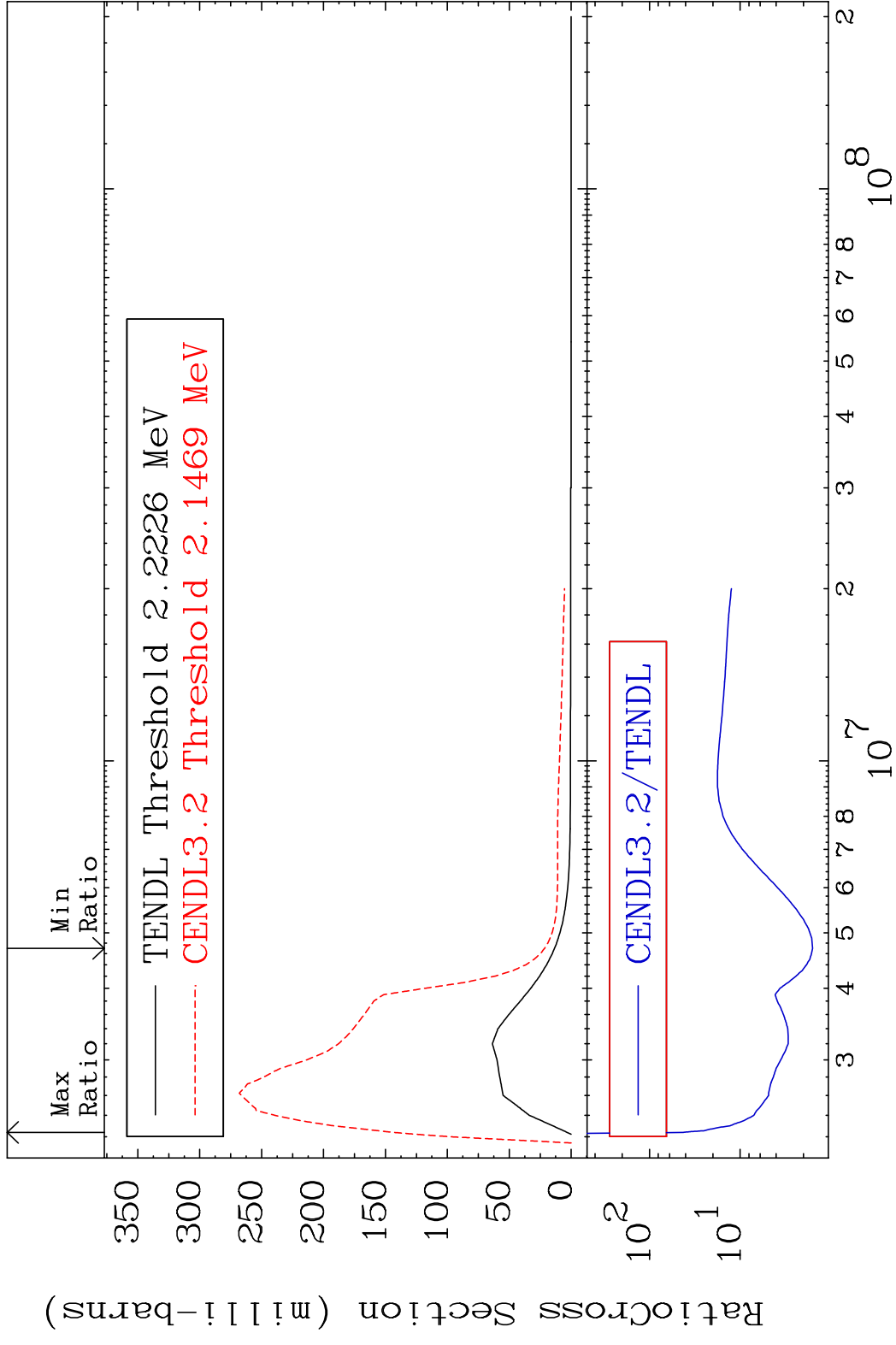


10 Incident Energy (eV) 50-Sn-124

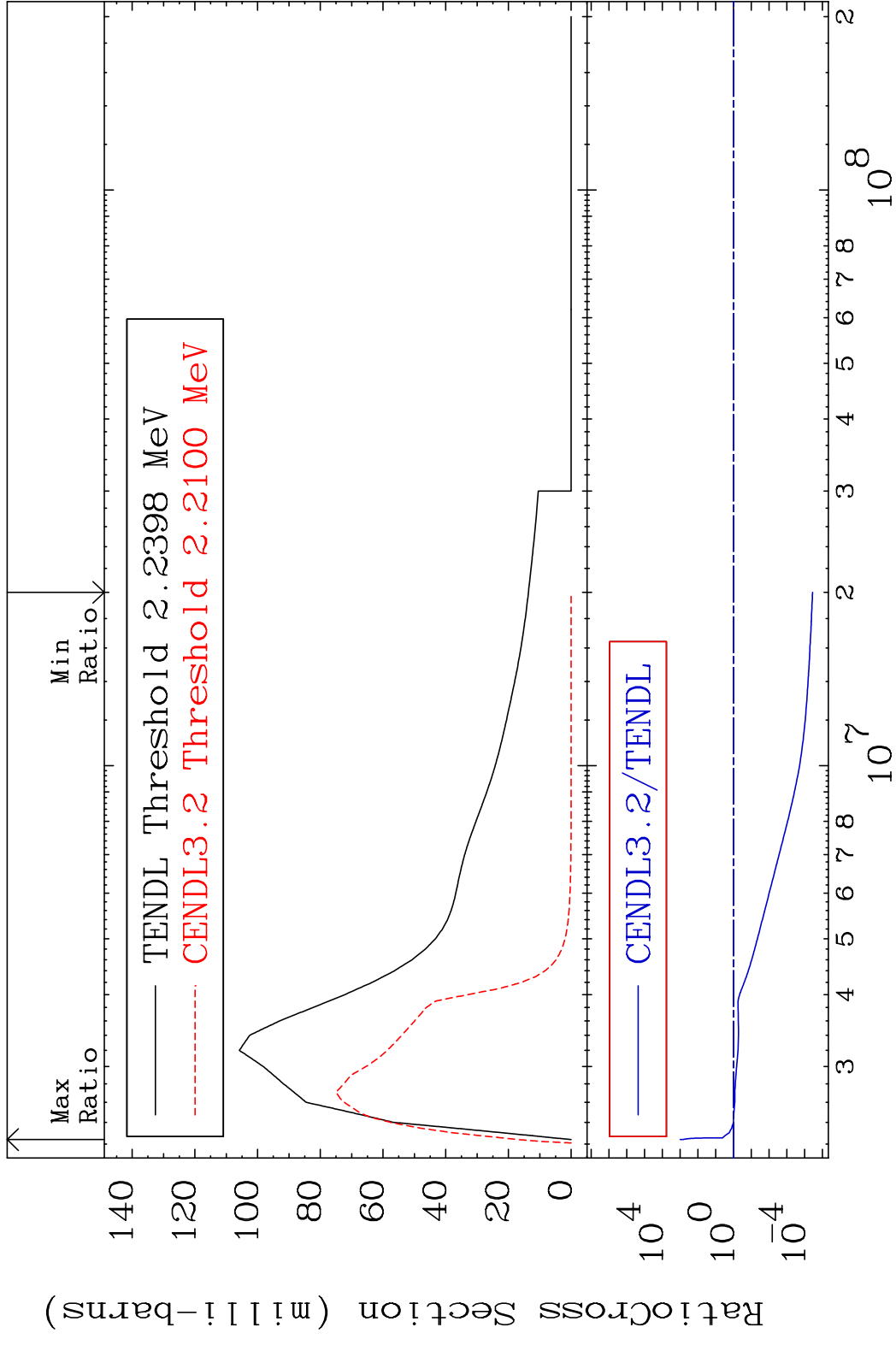
MAT 5061 MT= 54 (n,n') Level 50-Sn-124  
 Cross Section -62.39 To 9999. %



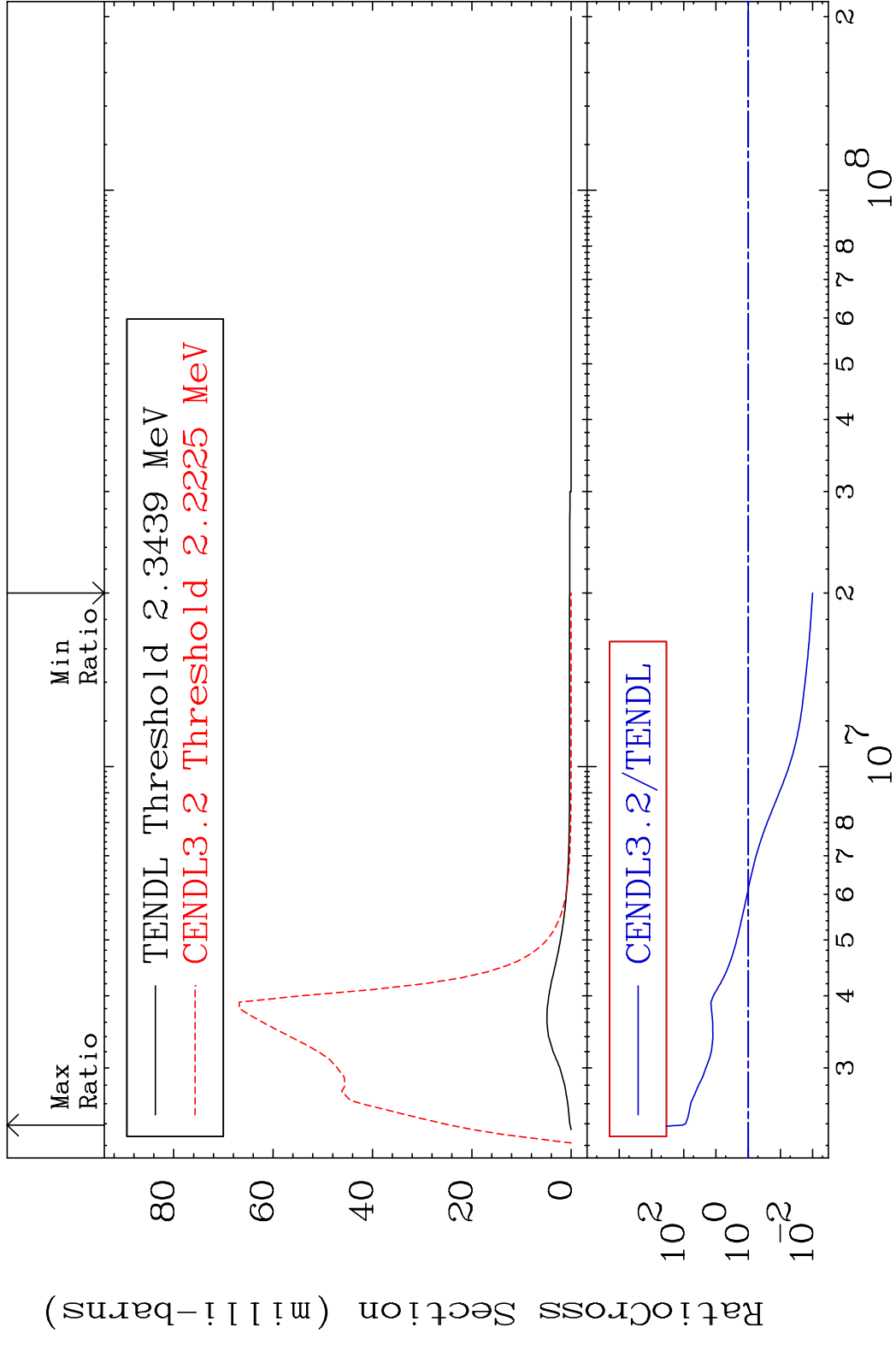
MAT 5061 MT= 55 (n,n') Level 50-Sn-124  
 Cross Section 58.61 To 4243. %



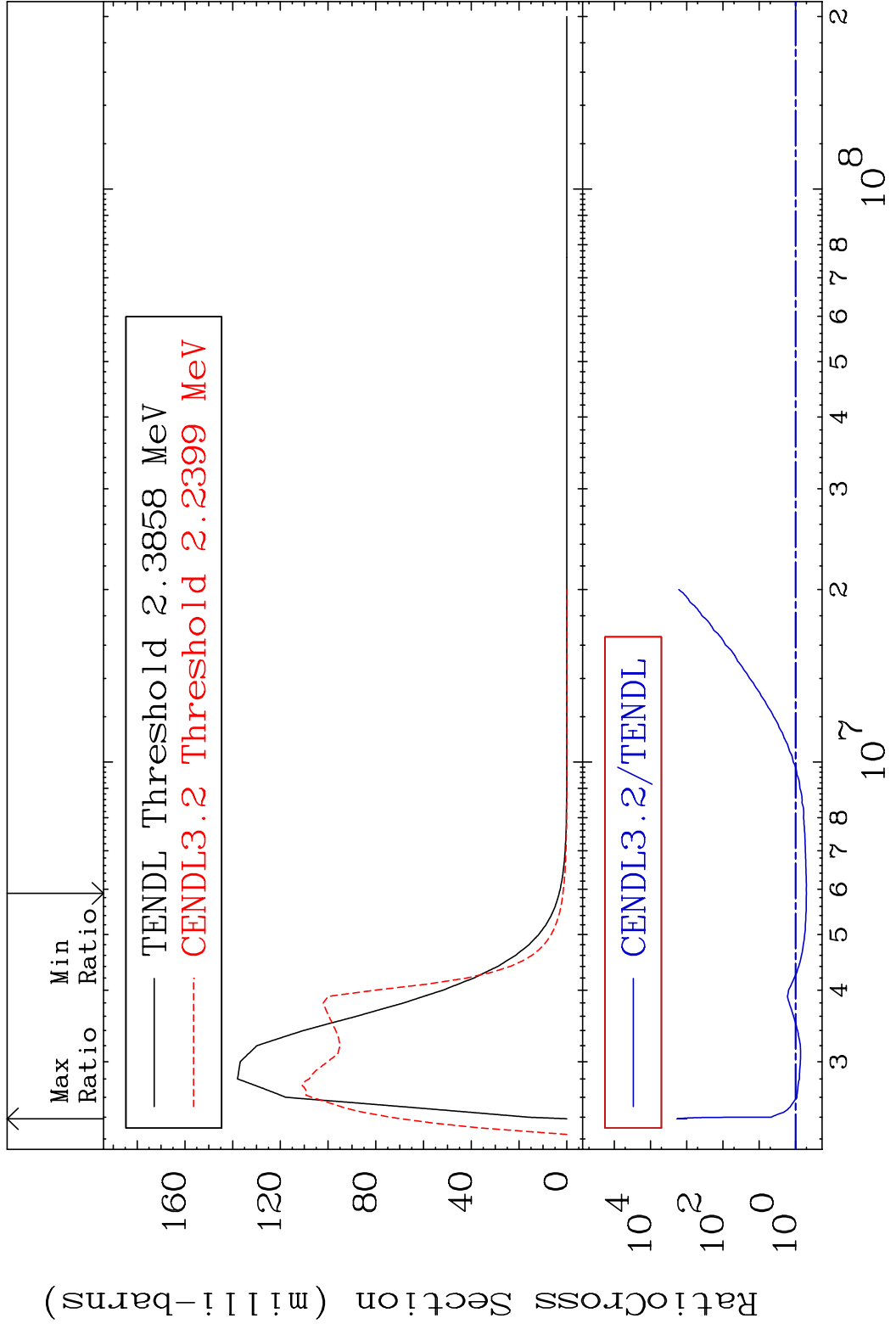
MAT 5061 MT= 56 (n, n') Level 50-Sn-124  
 Cross Section -100.0 To 9999. %



MAT 5061 MT= 57 (n,n') Level 50-Sn-124  
 Cross Section -98.99 To 9999. %

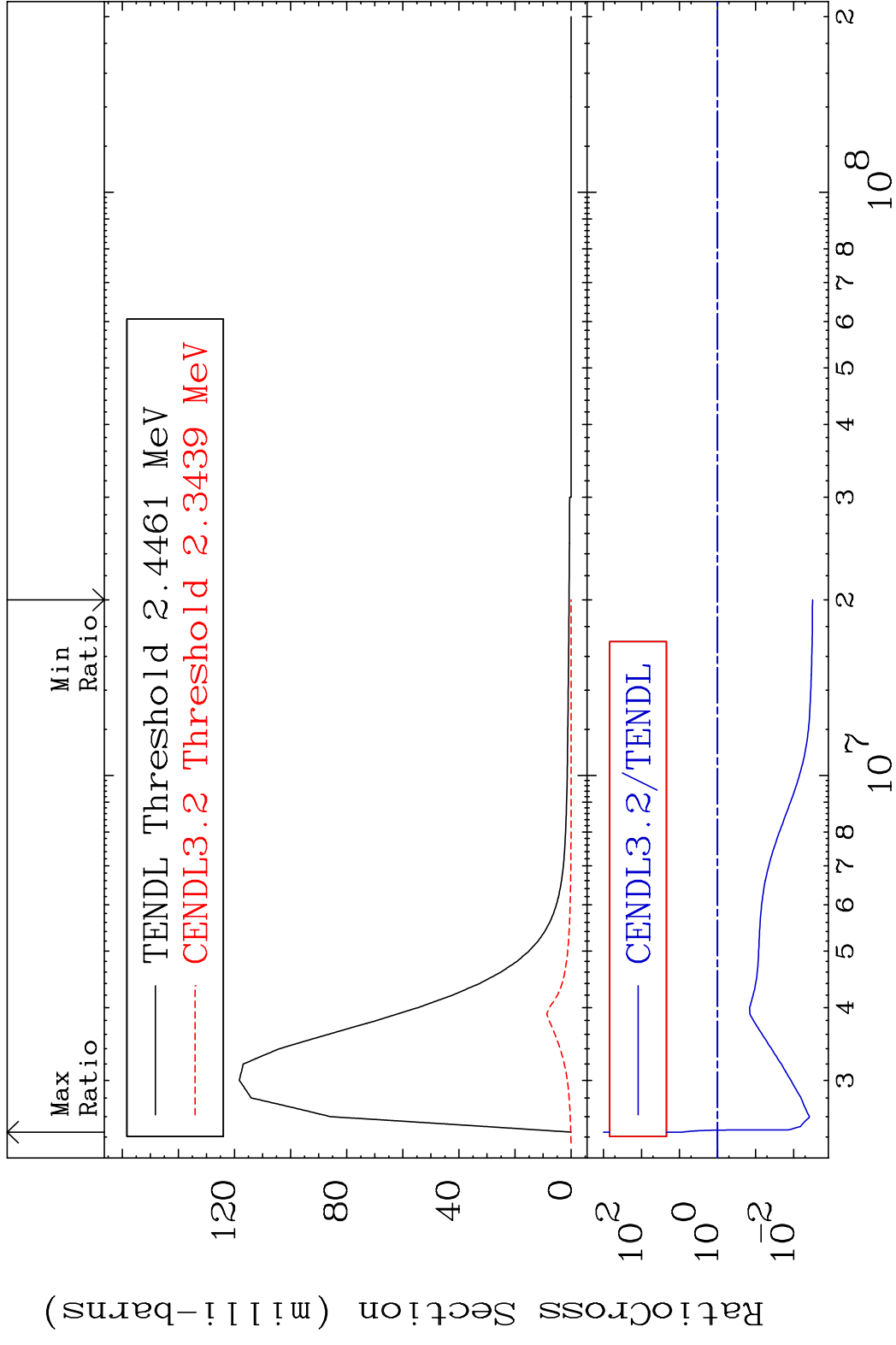


MAT 5061 MT= 58 (n,n') Level 50-Sn-124  
 Cross Section -49.98 To 9999. %

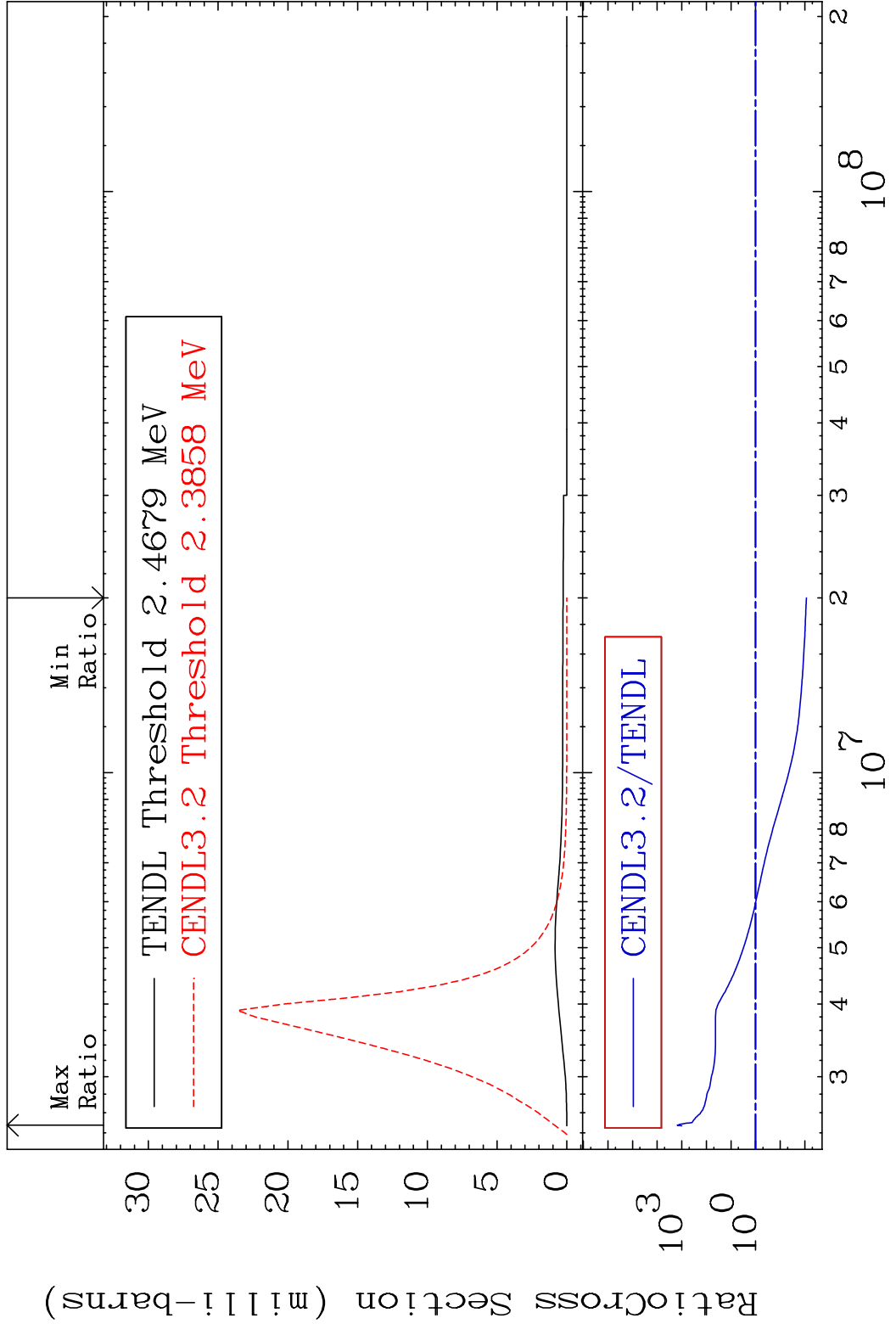




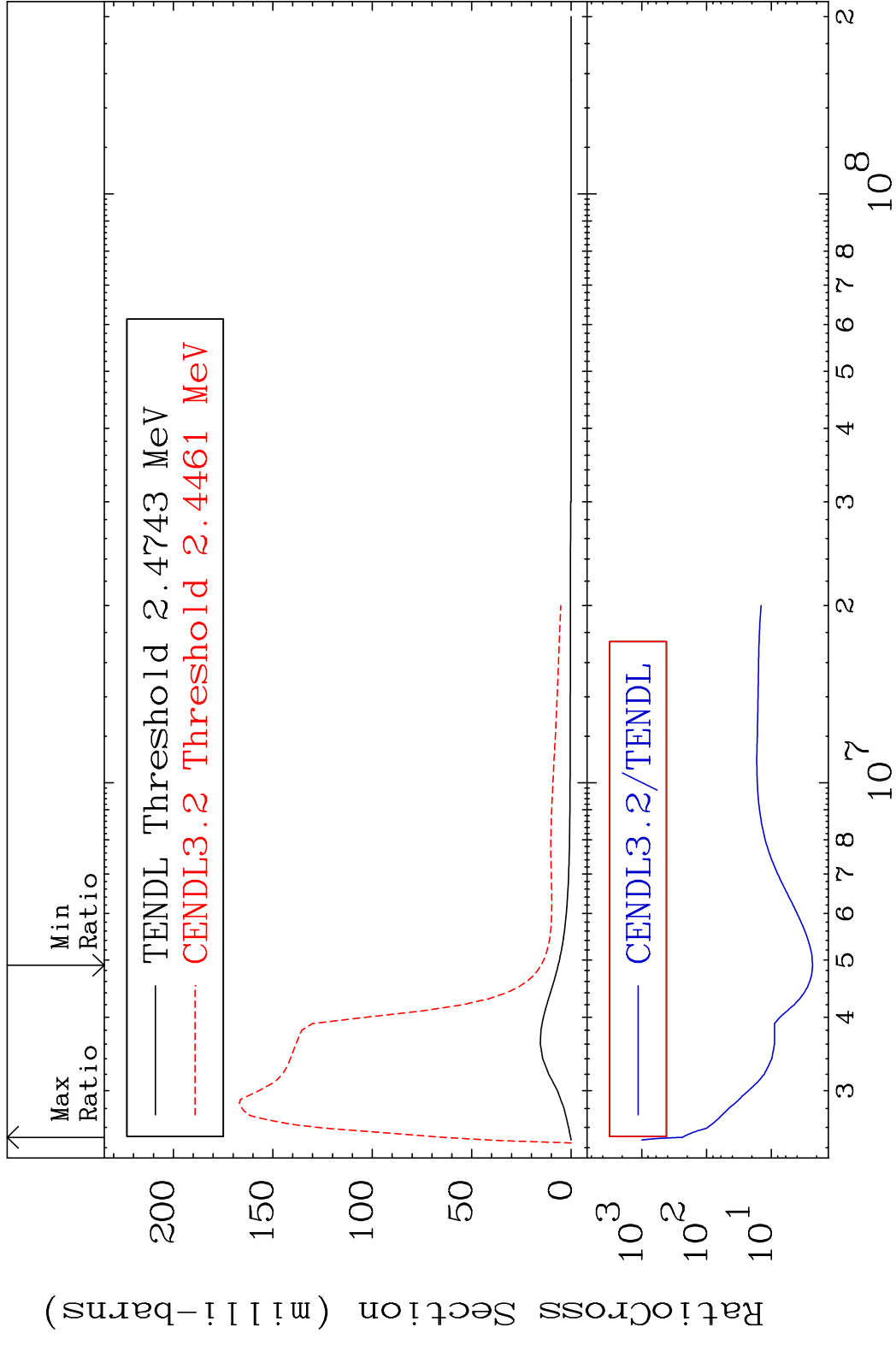
MAT 5061 MT= 59 (n,n') Level 50-Sn-124  
 Cross Section -99.68 To 742.8 %



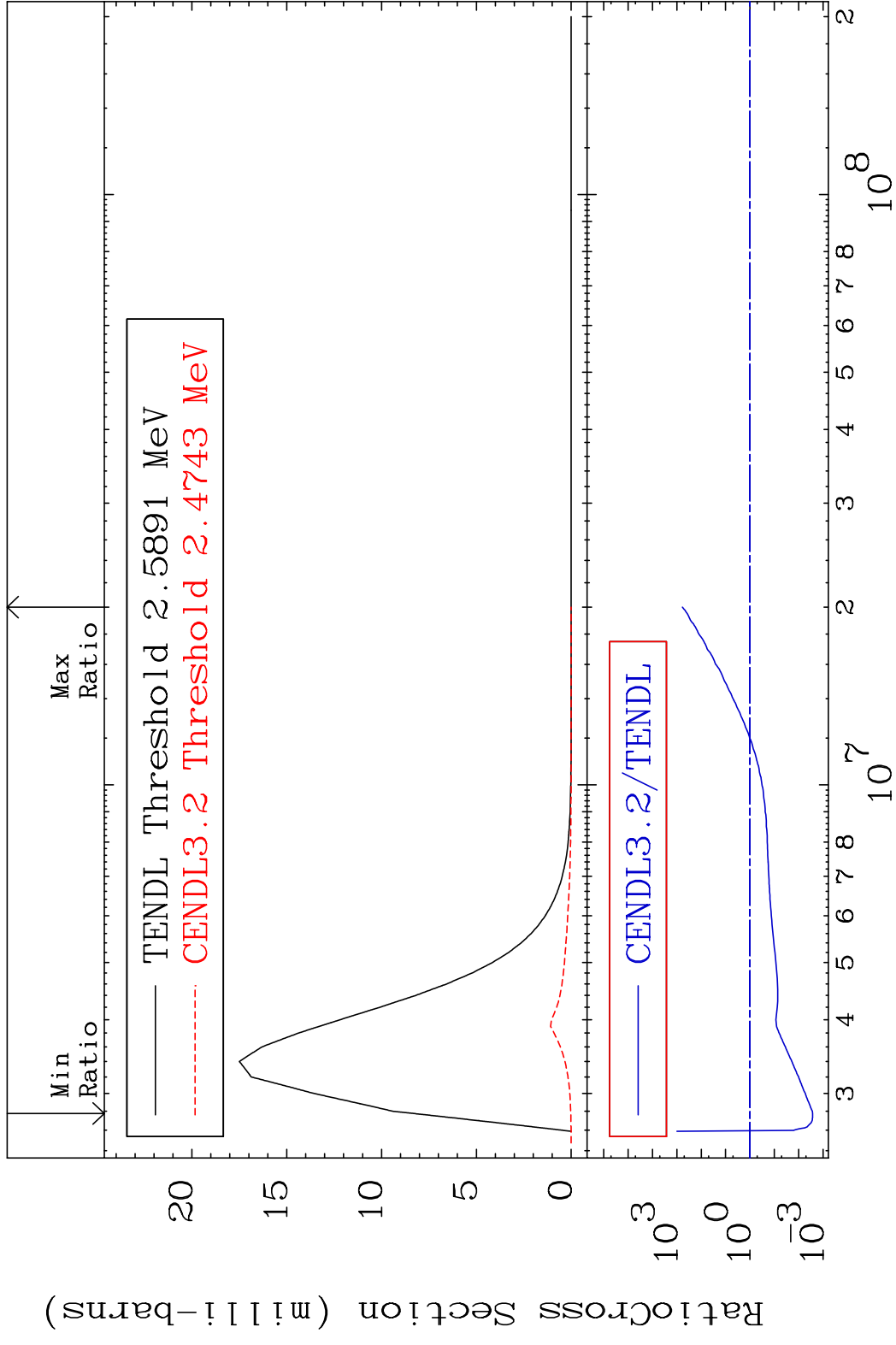
MAT 5061 MT= 60 (n,n') Level 50-Sn-124  
 Cross Section -99.13 To 9999. %



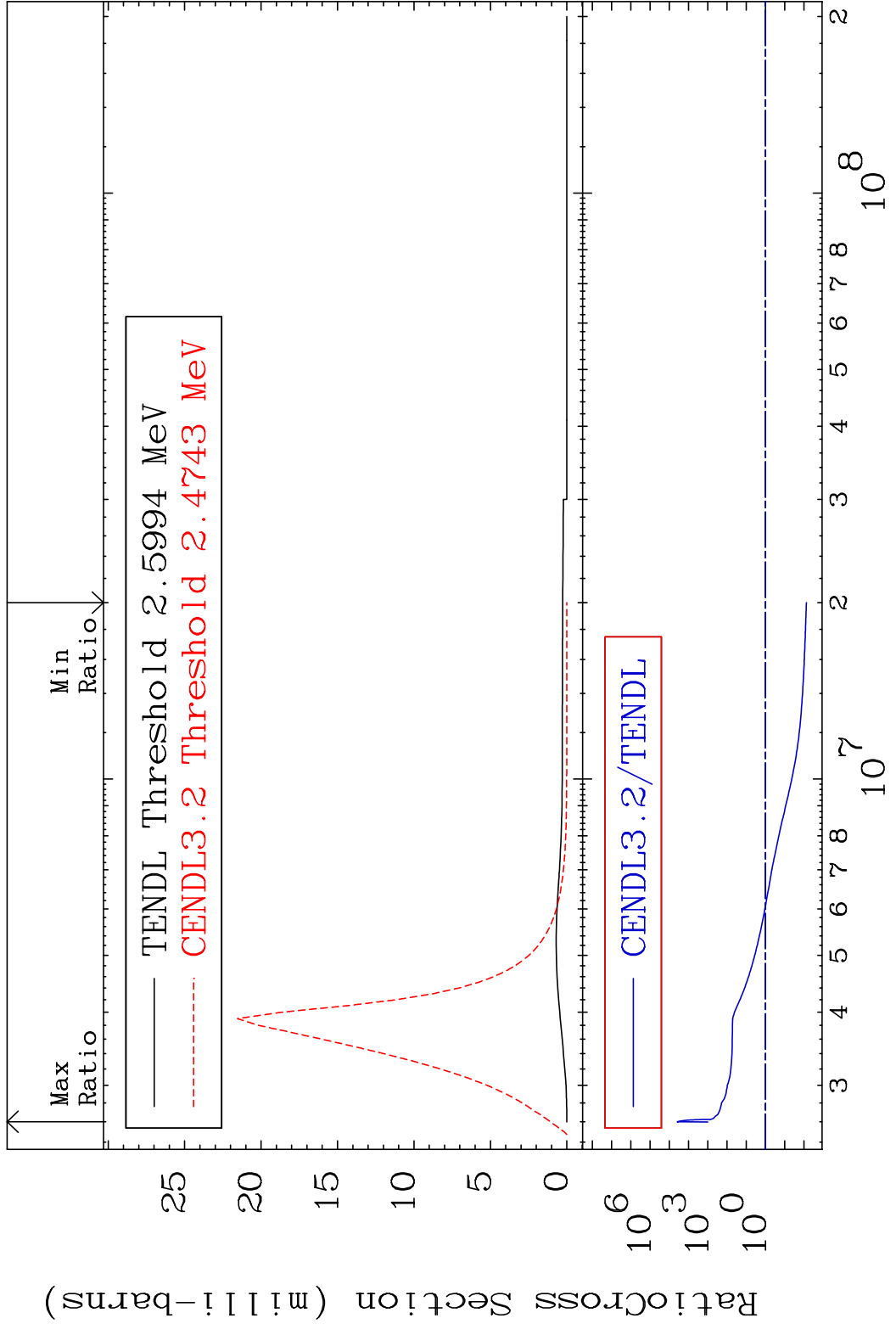
MAT 5061 MT= 61 (n, n') Level 50-Sn-124  
 Cross Section 131.2 To 9999. %



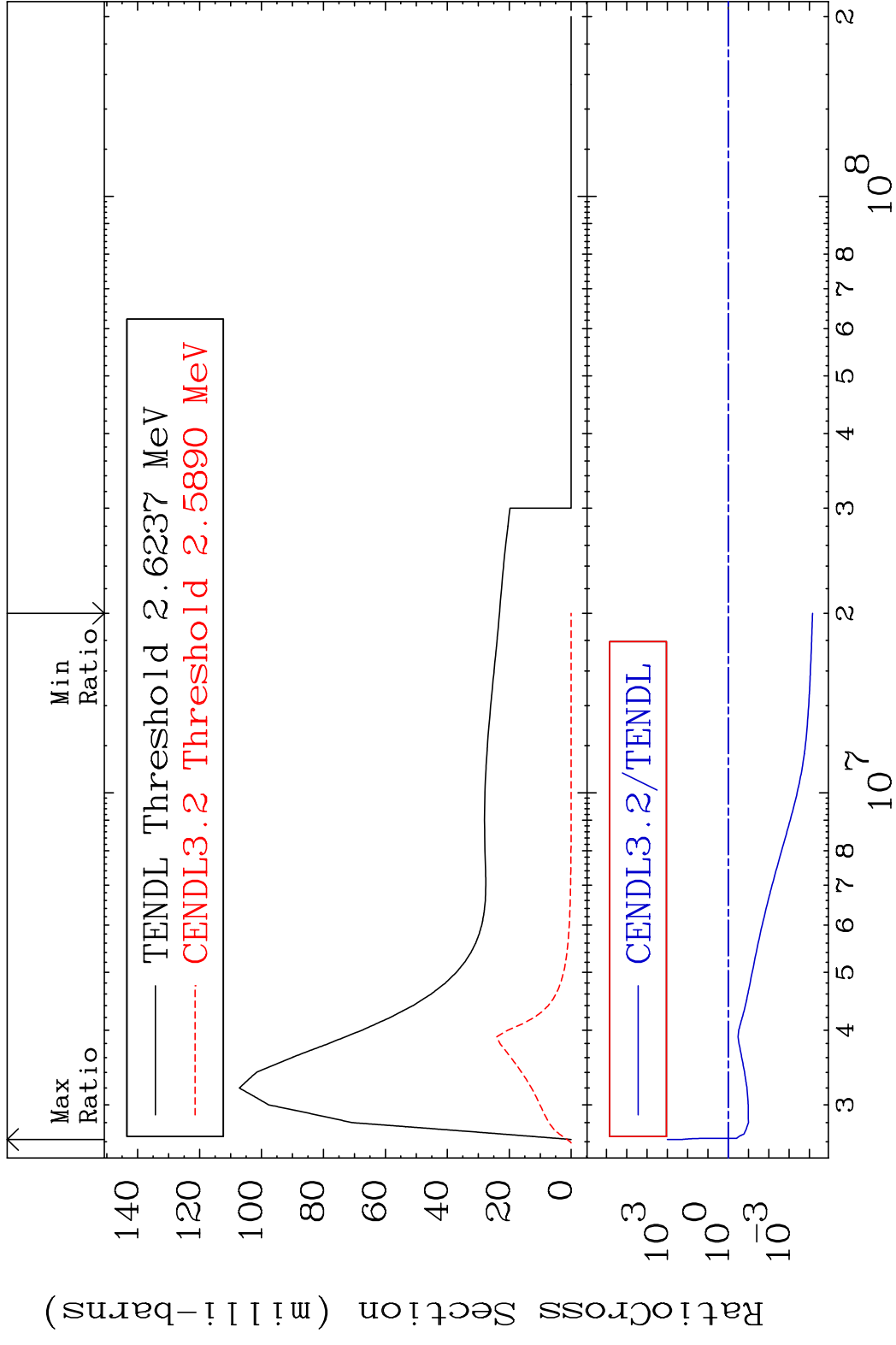
MAT 5061 MT= 62 (n, n') Level 50-Sn-124  
 Cross Section -99.73 To 9999. %



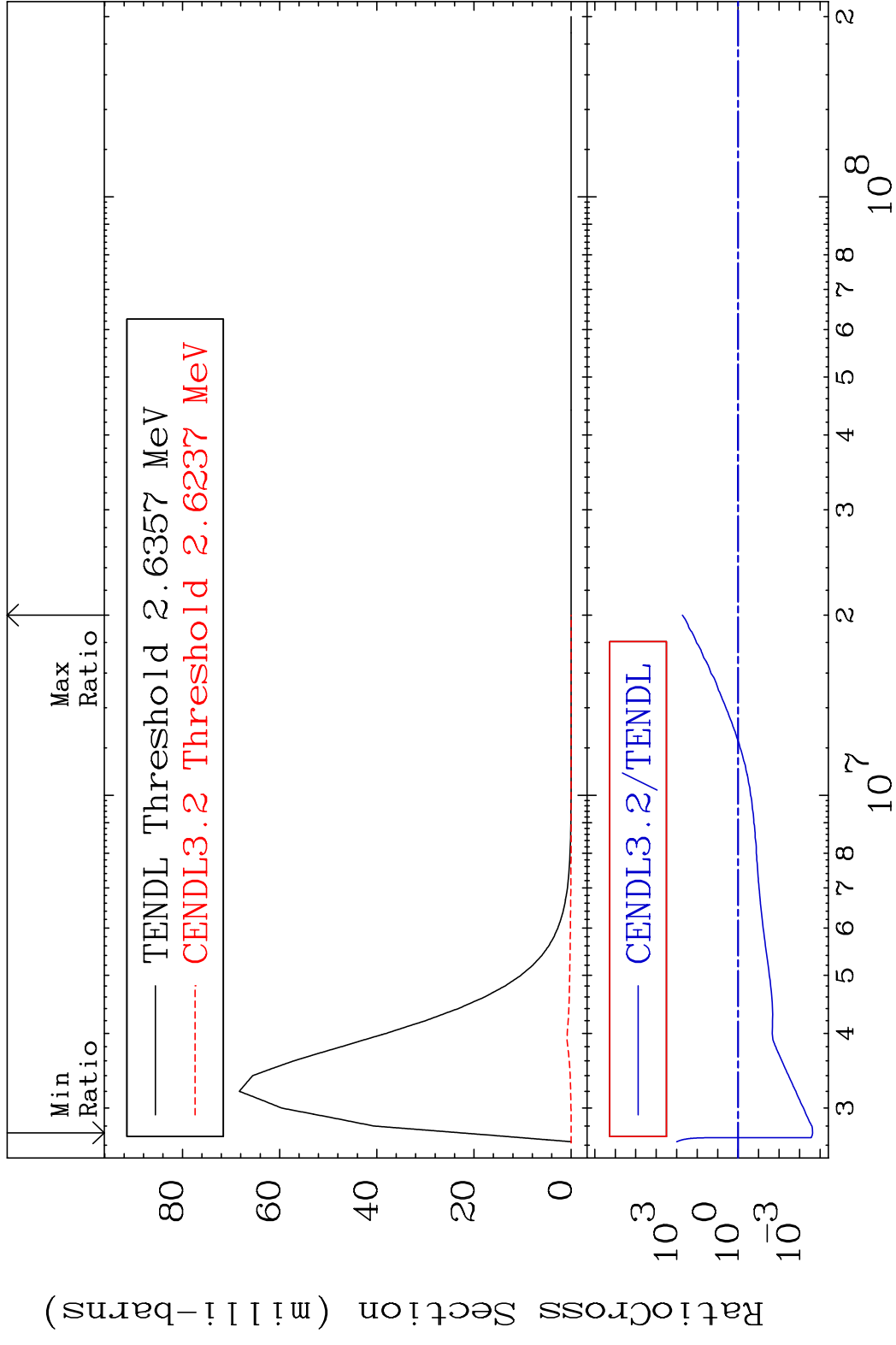
MAT 5061 MT= 63 (n,n') Level 50-Sn-124  
 Cross Section -99.26 To 9999. %



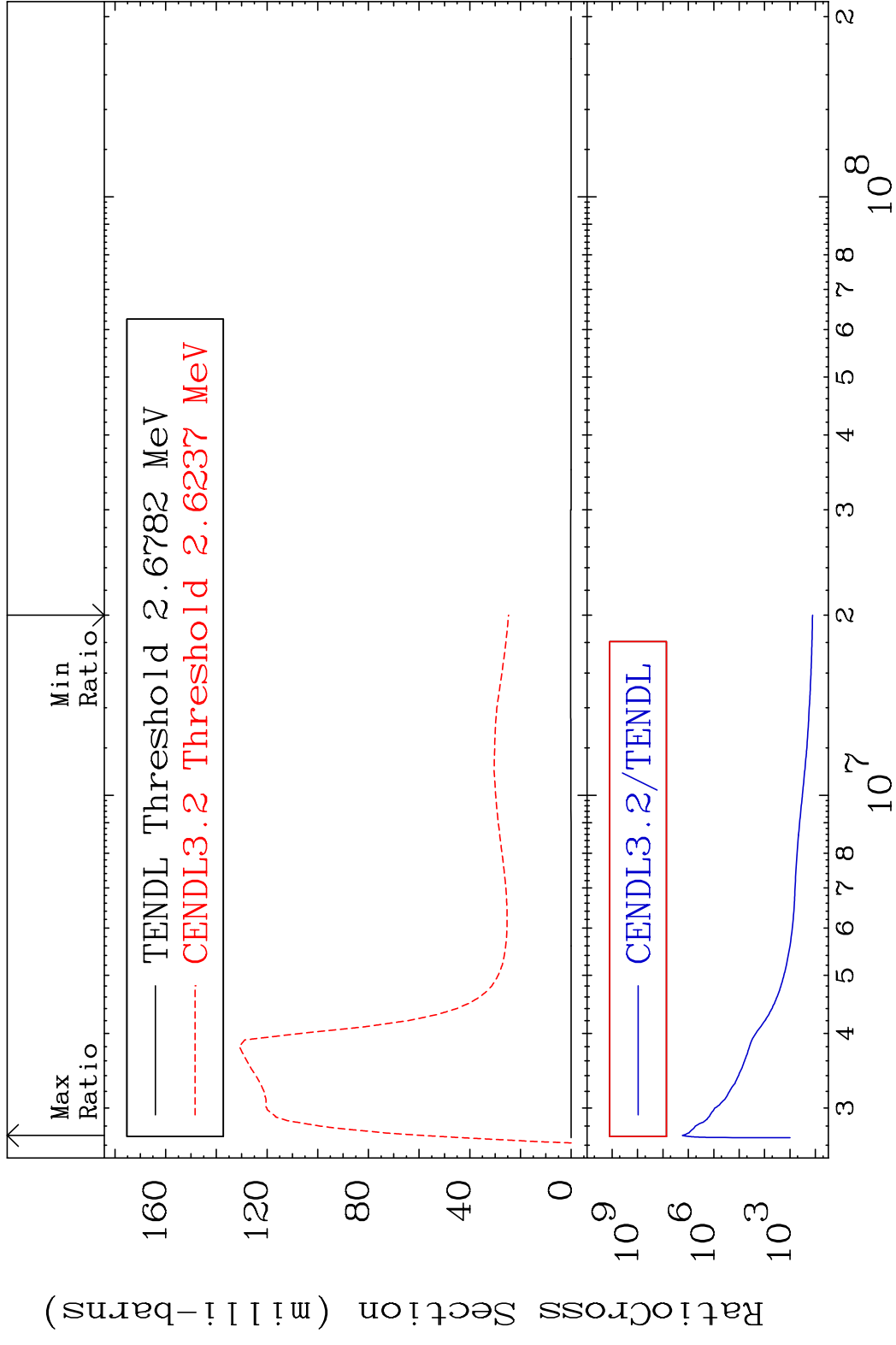
MAT 5061 MT= 64 (n,n') Level 50-Sn-124  
 Cross Section -99.99 To 9999. %



MAT 5061 MT= 65 (n, n') Level 50-Sn-124  
 Cross Section -99.98 To 9999. %

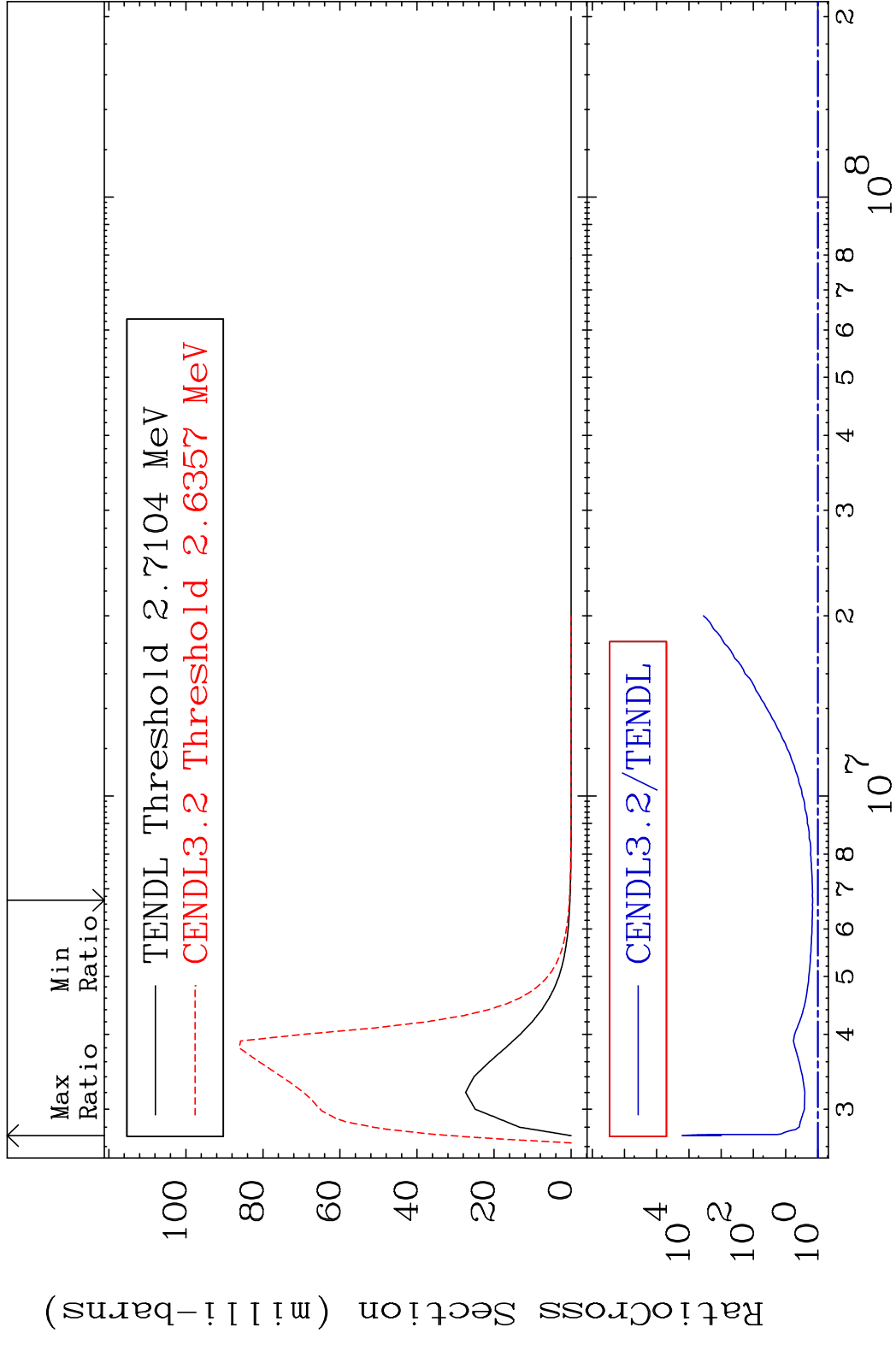


MAT 5061 MT= 66 (n,n') Level 50-Sn-124  
 Cross Section 9999. To 9999. %

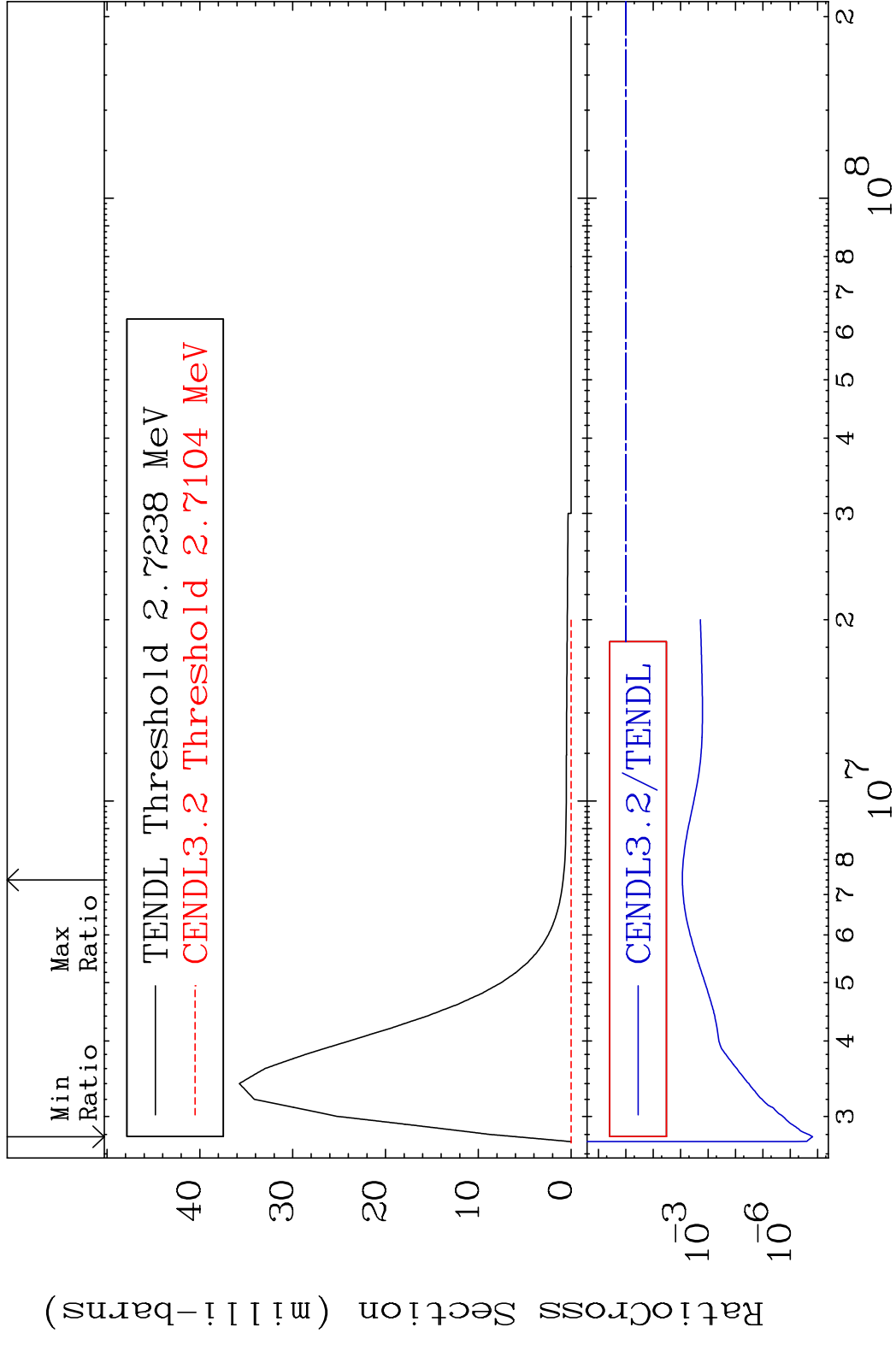




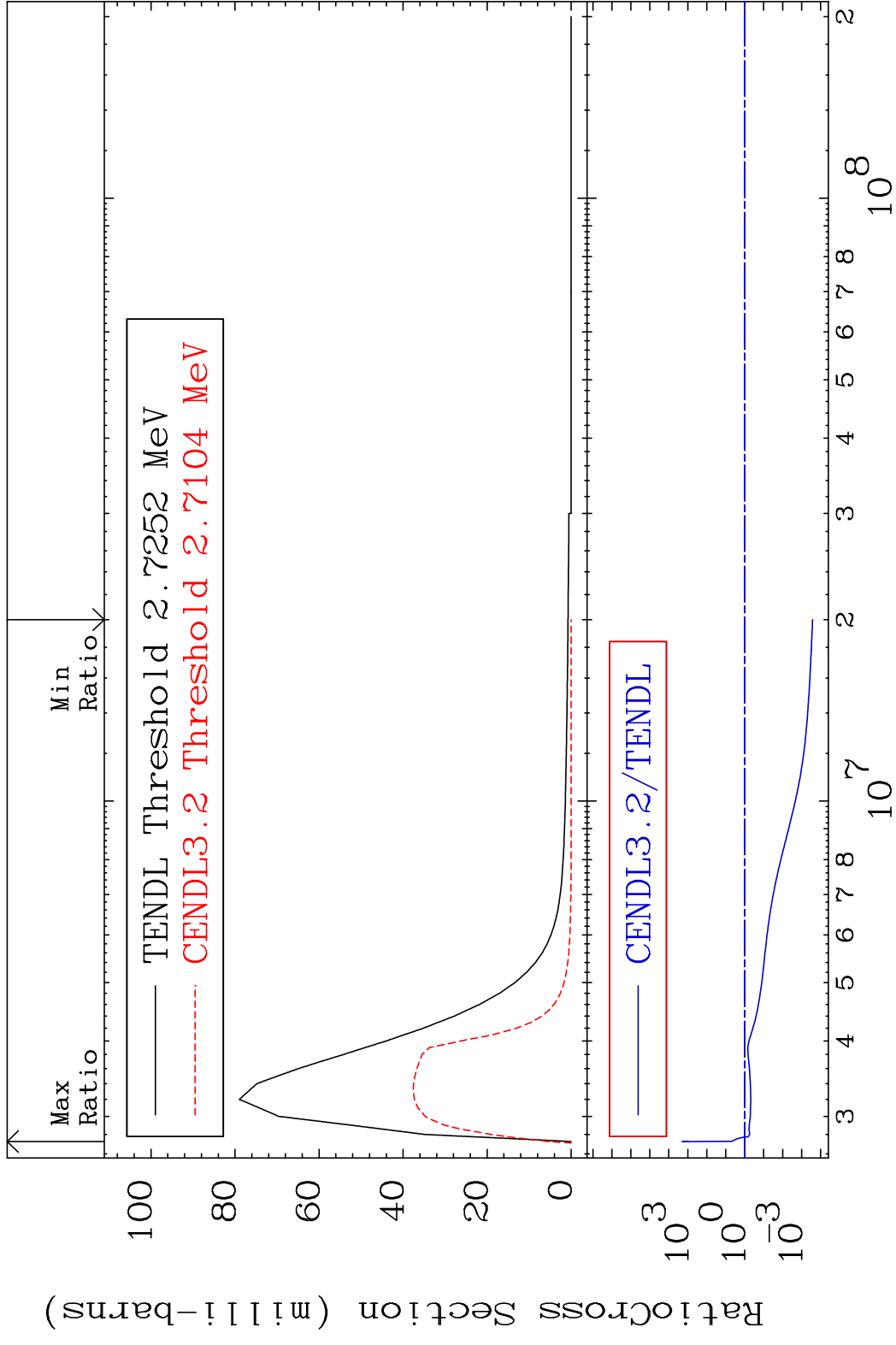
MAT 5061 MT= 67 (n, n') Level 50-Sn-124  
 Cross Section 45.72 To 9999. %



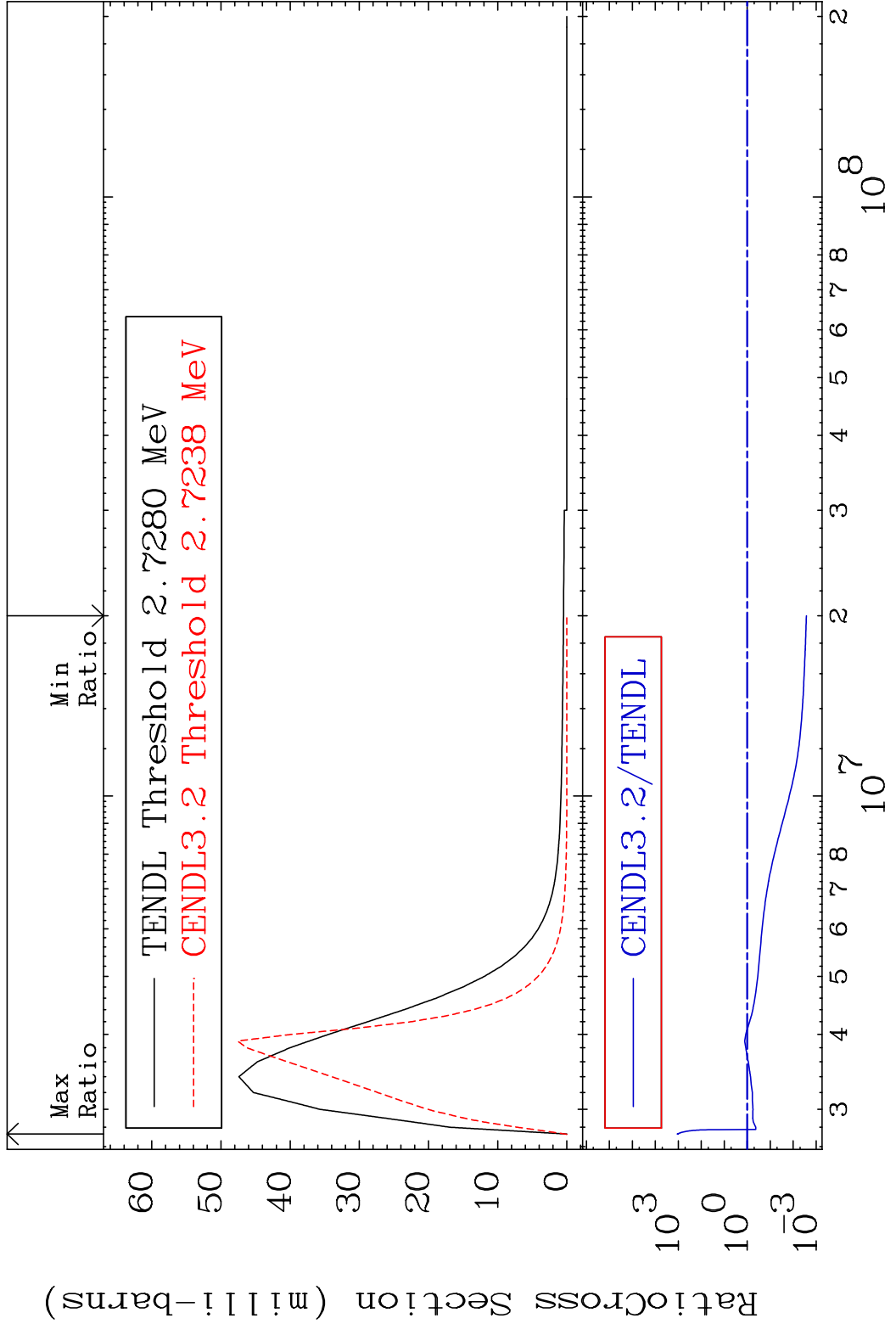
MAT 5061      MT= 68 (n, n') Level      50-Sn-124  
 Cross Section    -100.0 To -99.13%



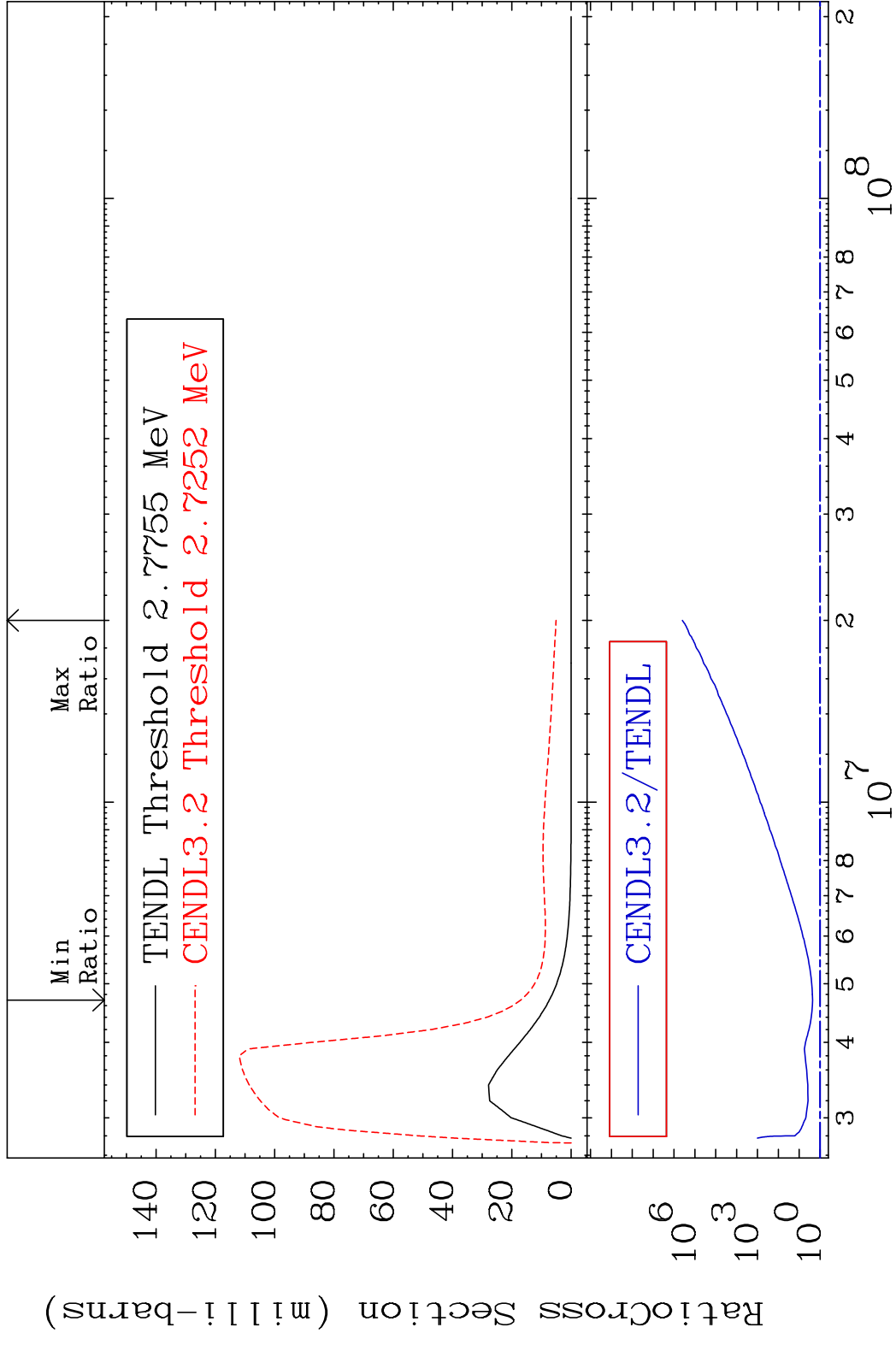
MAT 5061 MT= 69 (n,n') Level 50-Sn-124  
 Cross Section -99.97 To 9999. %



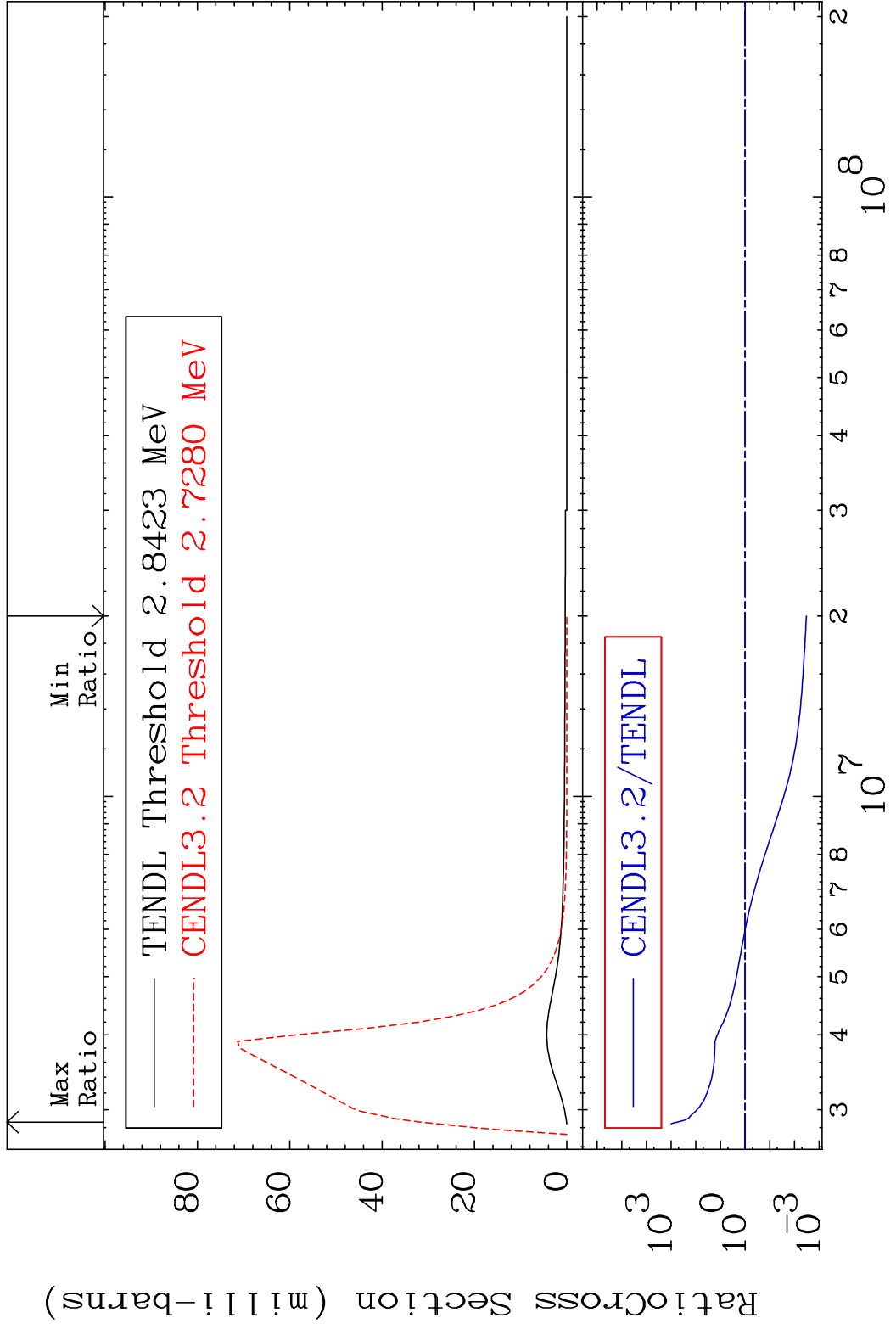
MAT 5061 MT= 70 (n,n') Level 50-Sn-124  
 Cross Section -99.73 To 9999. %



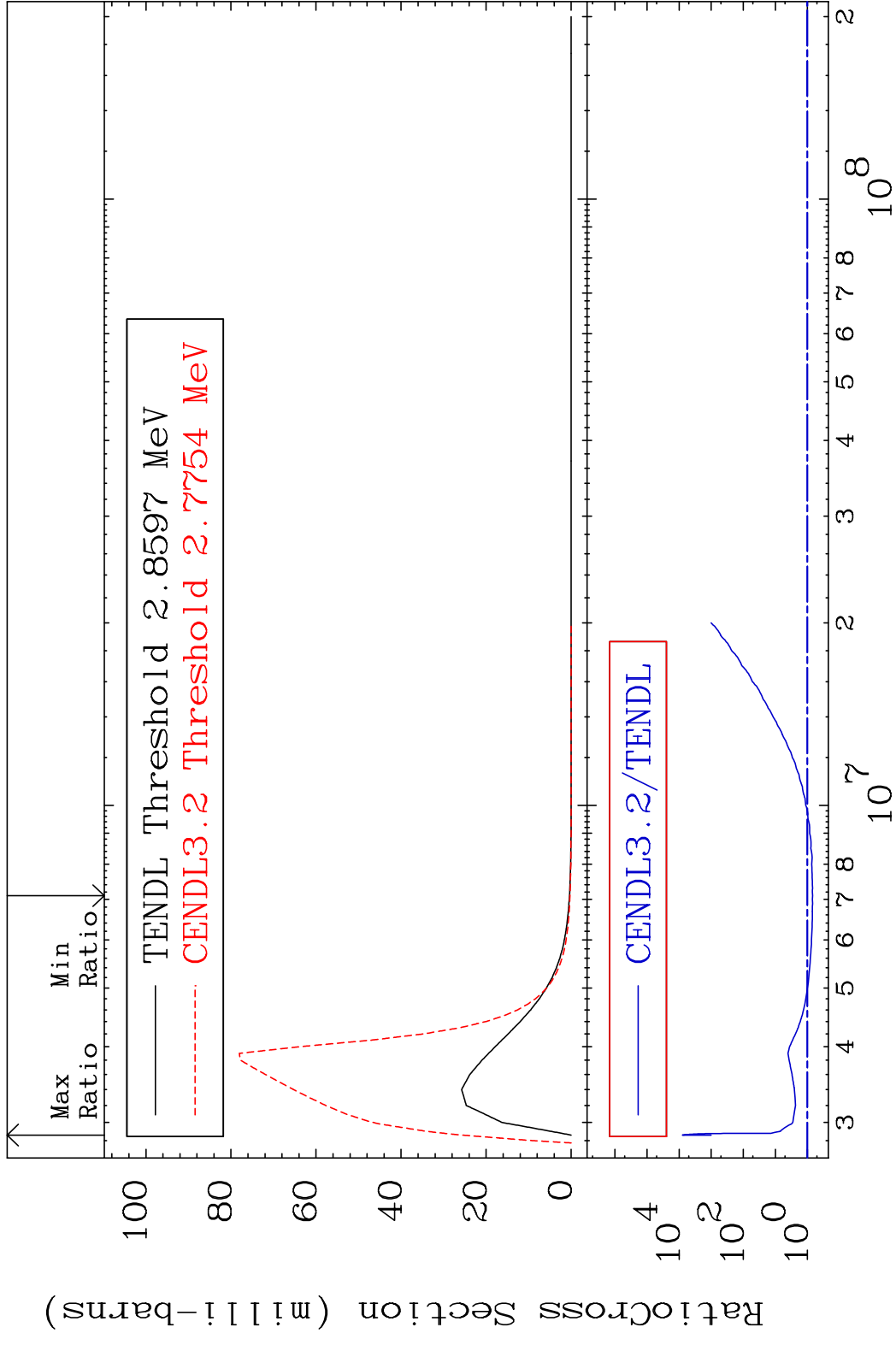
MAT 5061 MT= 71 (n, n') Level 50-Sn-124  
 Cross Section 130.2 To 9999. %



MAT 5061 MT= 72 (n,n') Level 50-Sn-124  
 Cross Section -99.67 To 9999. %

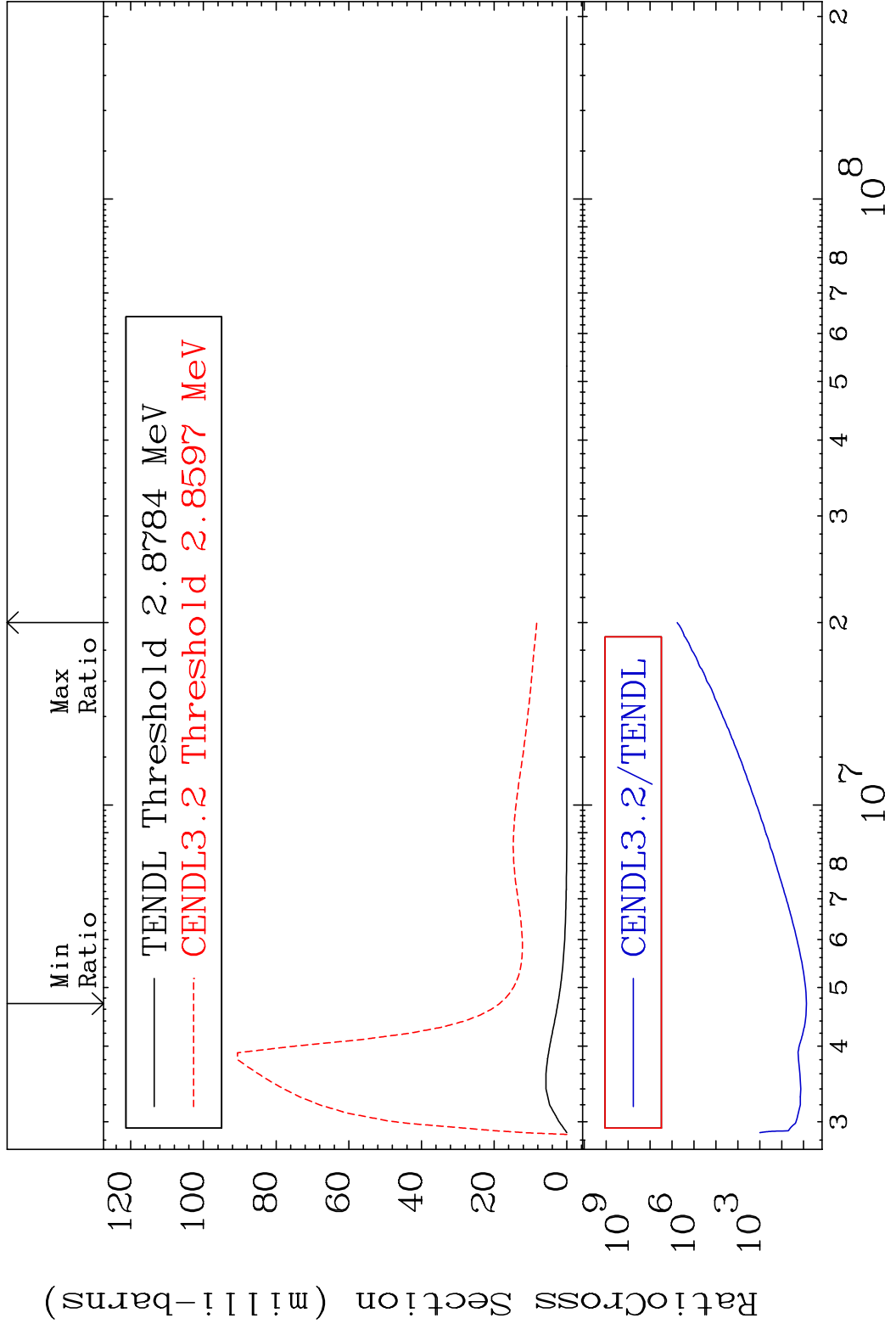


MAT 5061 MT= 73 (n,n') Level 50-Sn-124  
 Cross Section -30.97 To 9999. %



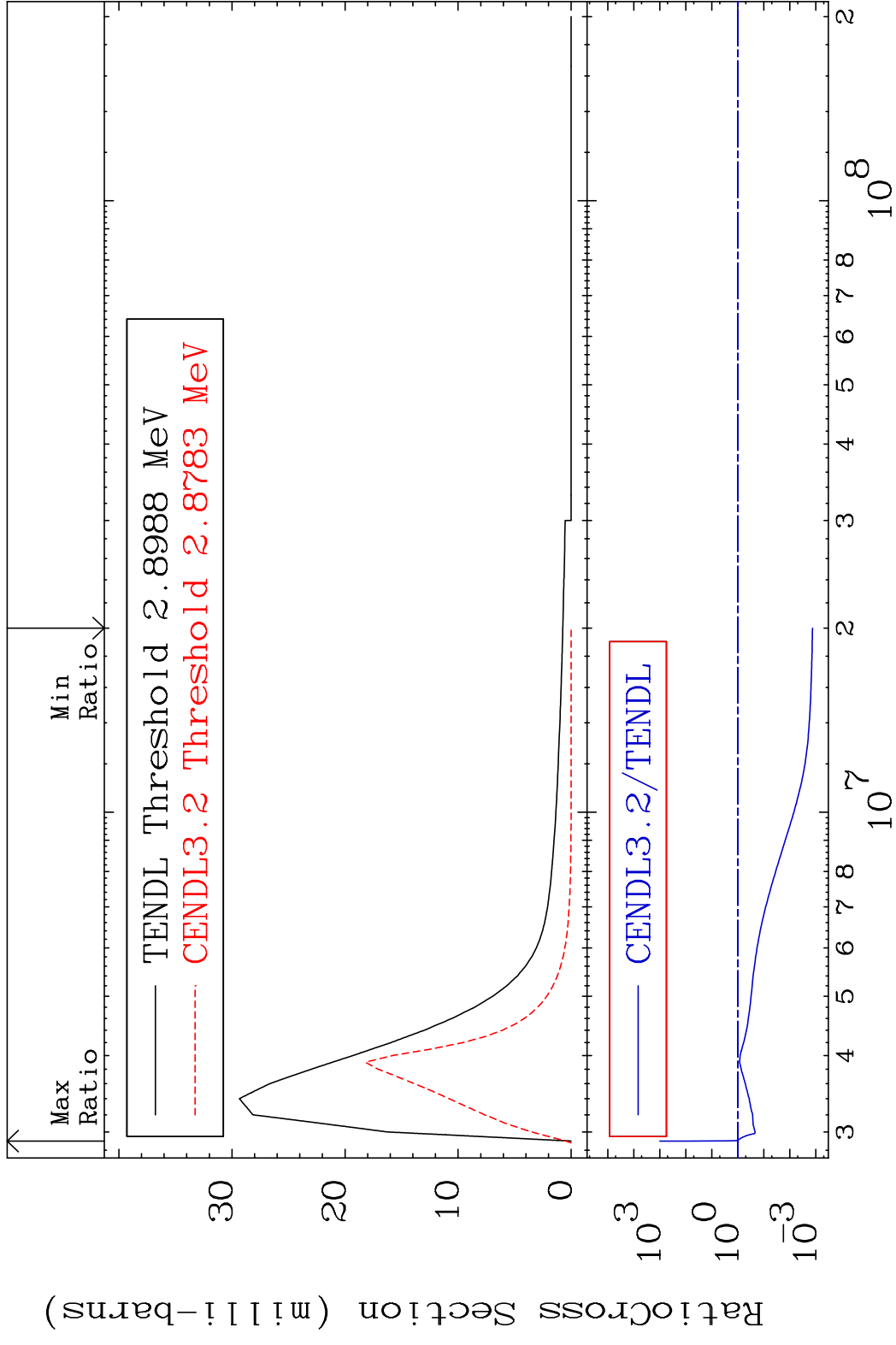
30 Incident Energy (eV) 50-Sn-124

MAT 5061 MT= 74 (n,n') Level 50-Sn-124  
 Cross Section 646.9 To 9999. %



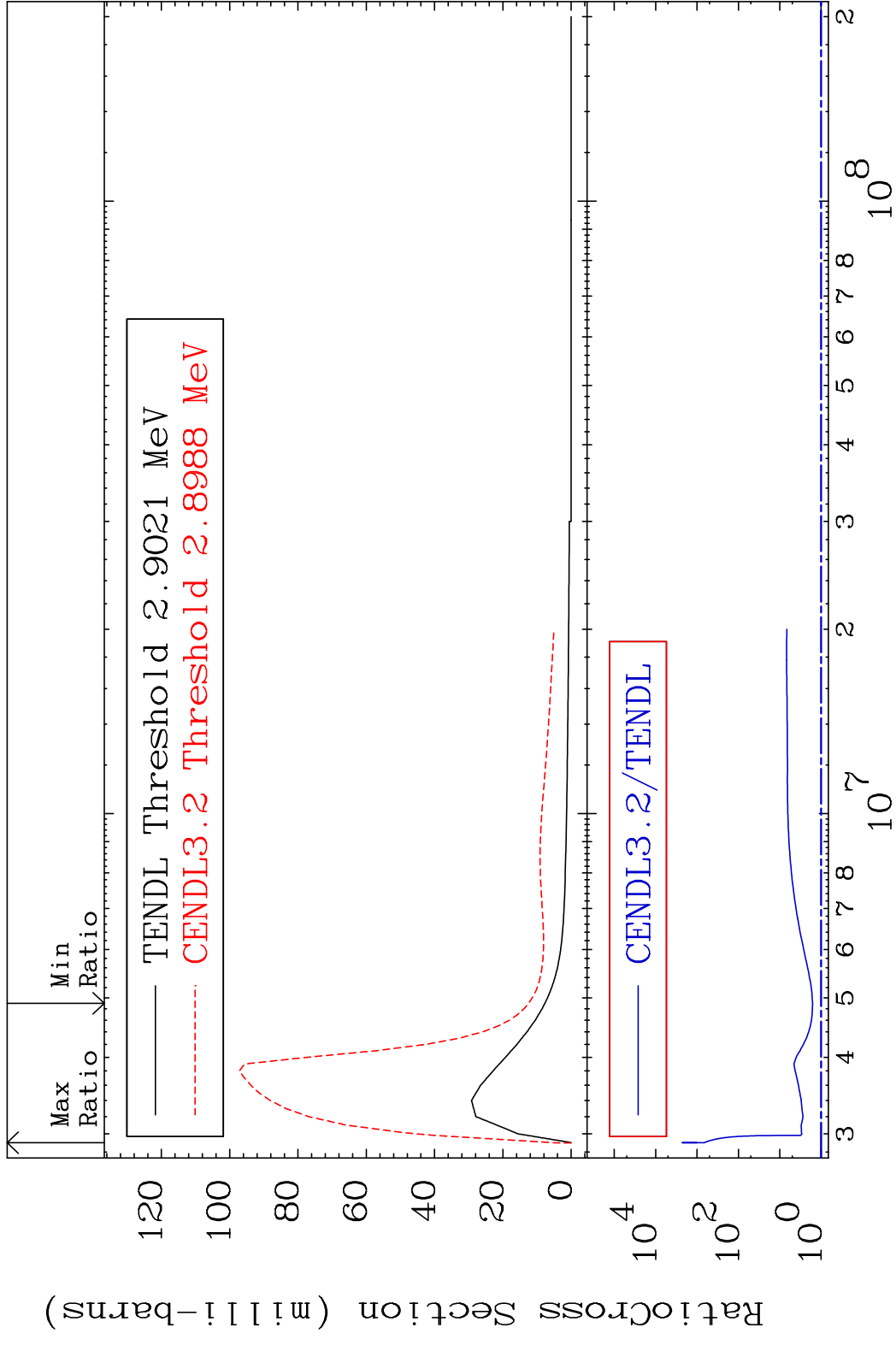


MAT 5061 MT= 75 (n,n') Level 50-Sn-124  
 Cross Section -99.87 To 9999. %

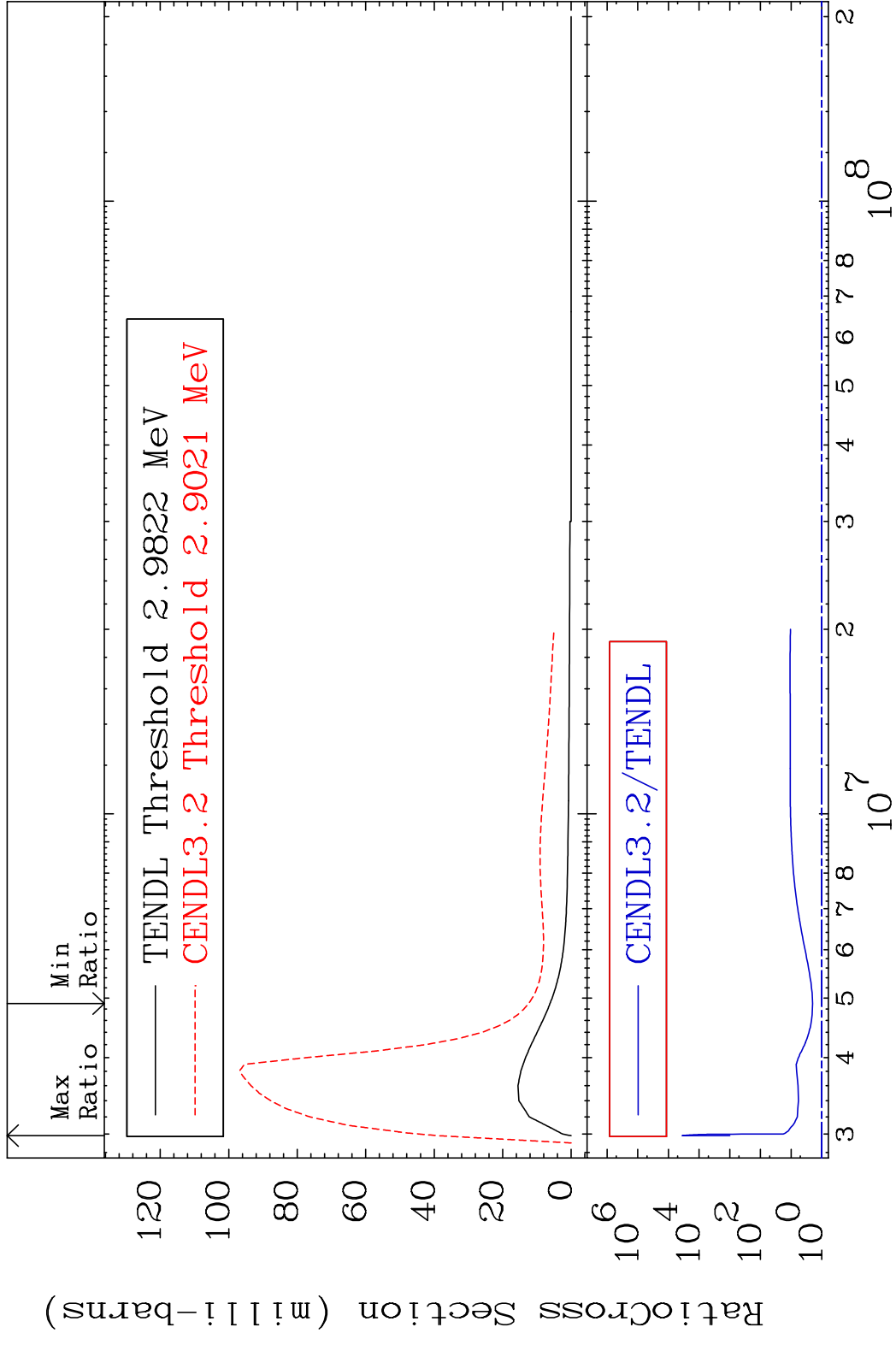


32 Incident Energy (eV) 50-Sn-124

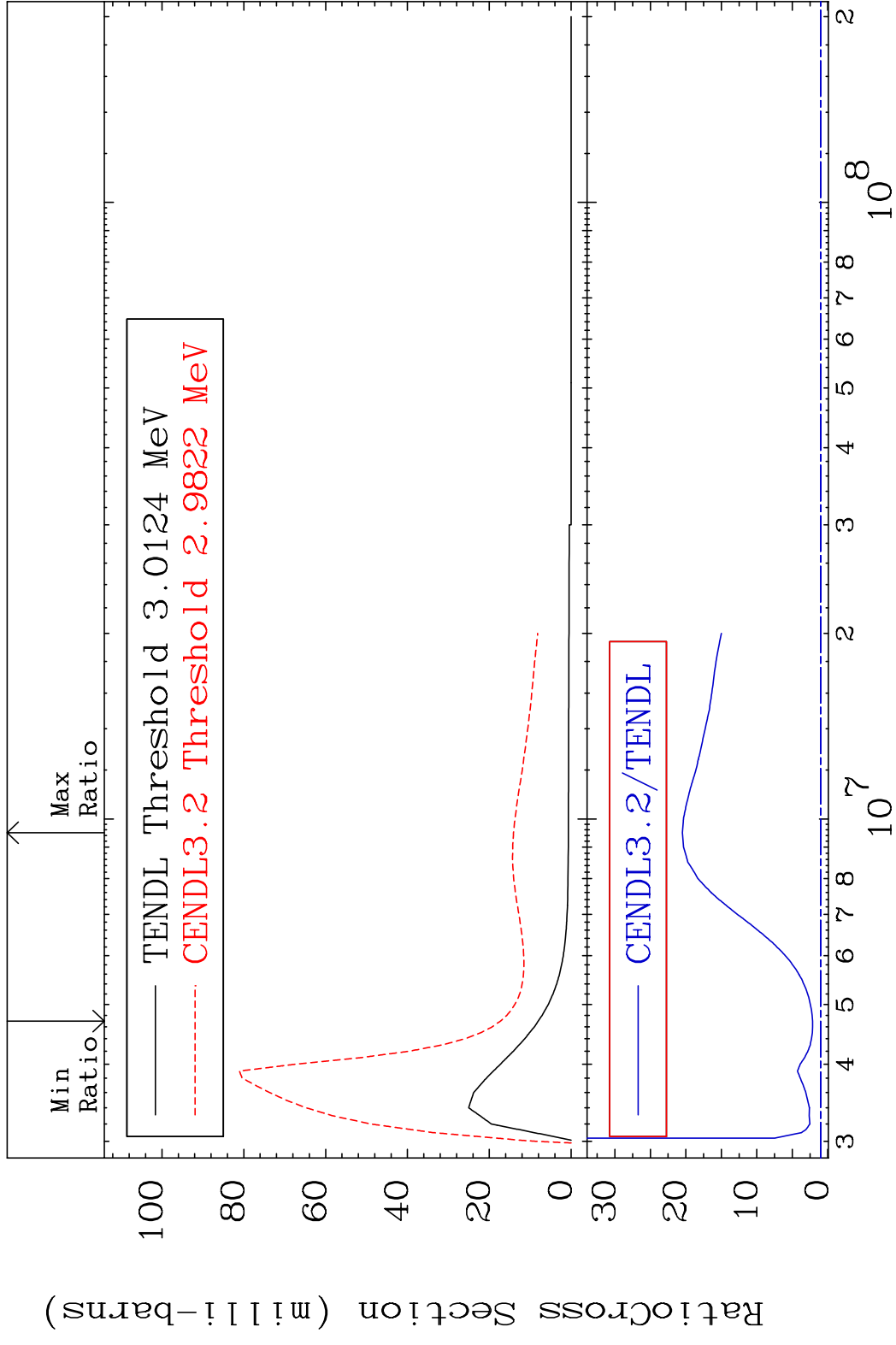
MAT 5061 MT= 76 (n,n') Level 50-Sn-124  
 Cross Section 61.37 To 9999. %



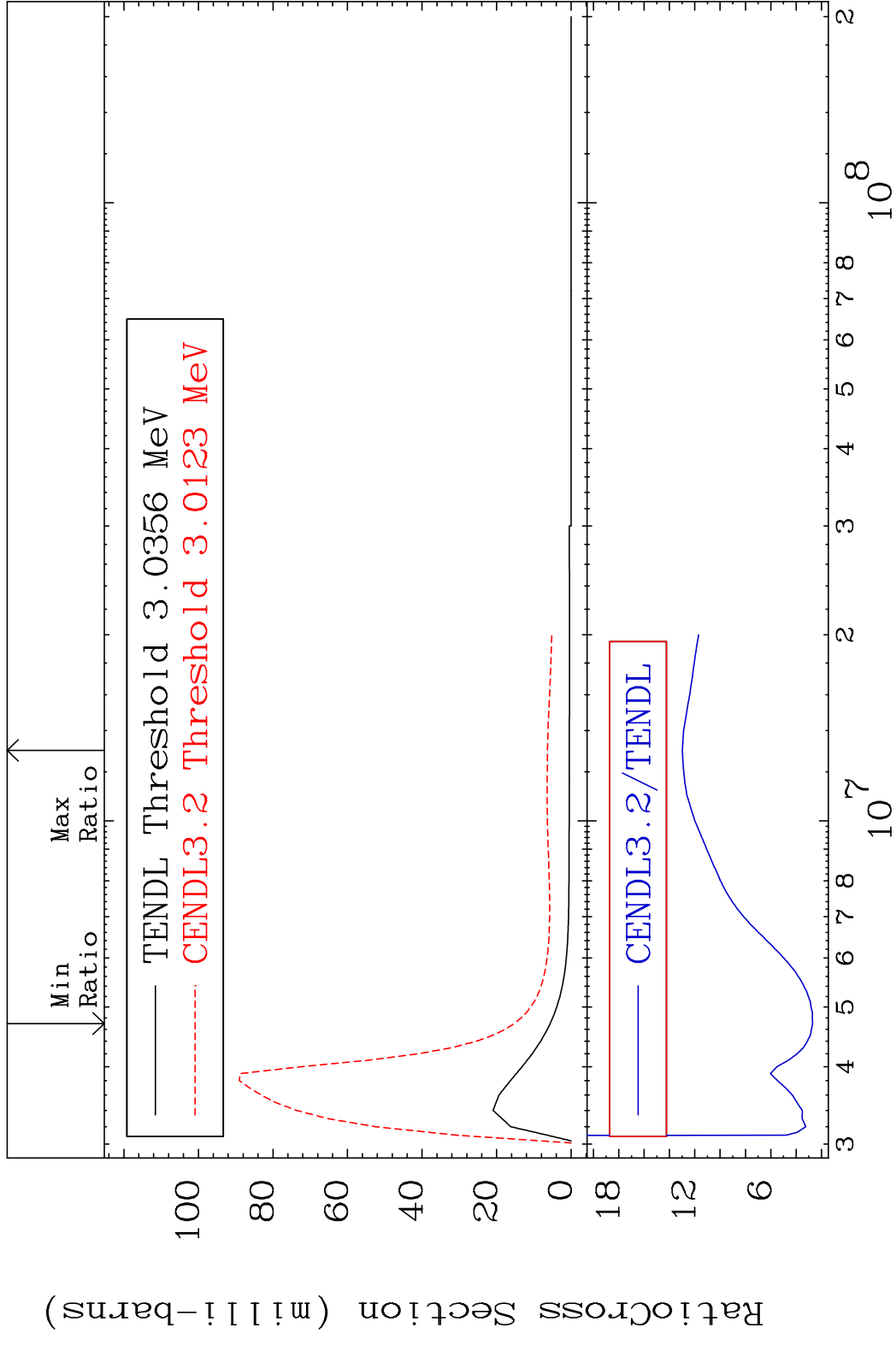
MAT 5061 MT= 77 (n,n') Level 50-Sn-124  
 Cross Section 100.7 To 9999. %



MAT 5061 MT= 78 (n,n') Level 50-Sn-124  
 Cross Section 114.2 To 1950. %



MAT 5061 MT= 79 (n,n') Level 50-Sn-124  
 Cross Section 170.3 To 1198. %

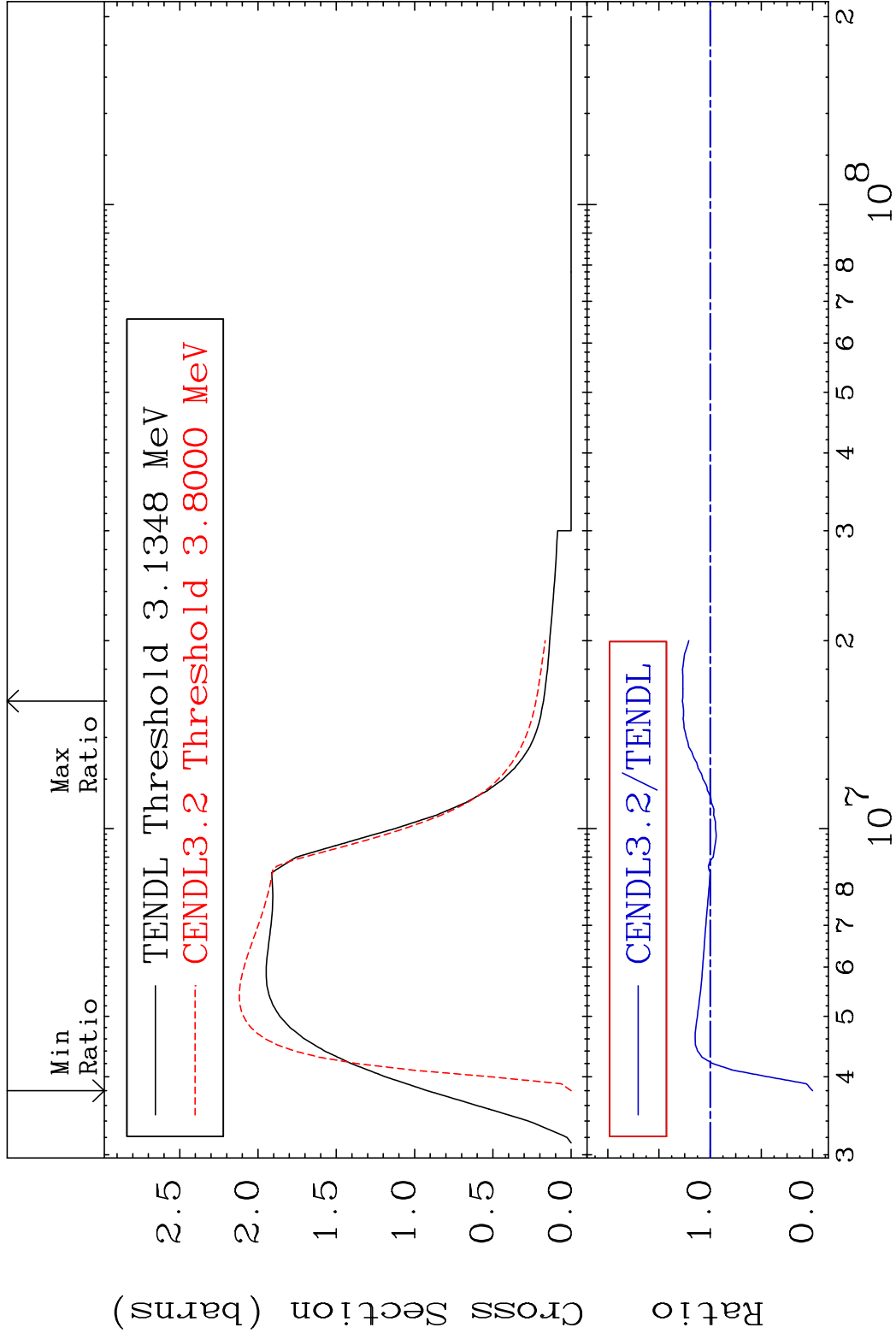


MAT 5061

(n, n') Continuum

50-Sn-124

Cross Section -100.0 To 27.16 %



37

Incident Energy (eV)

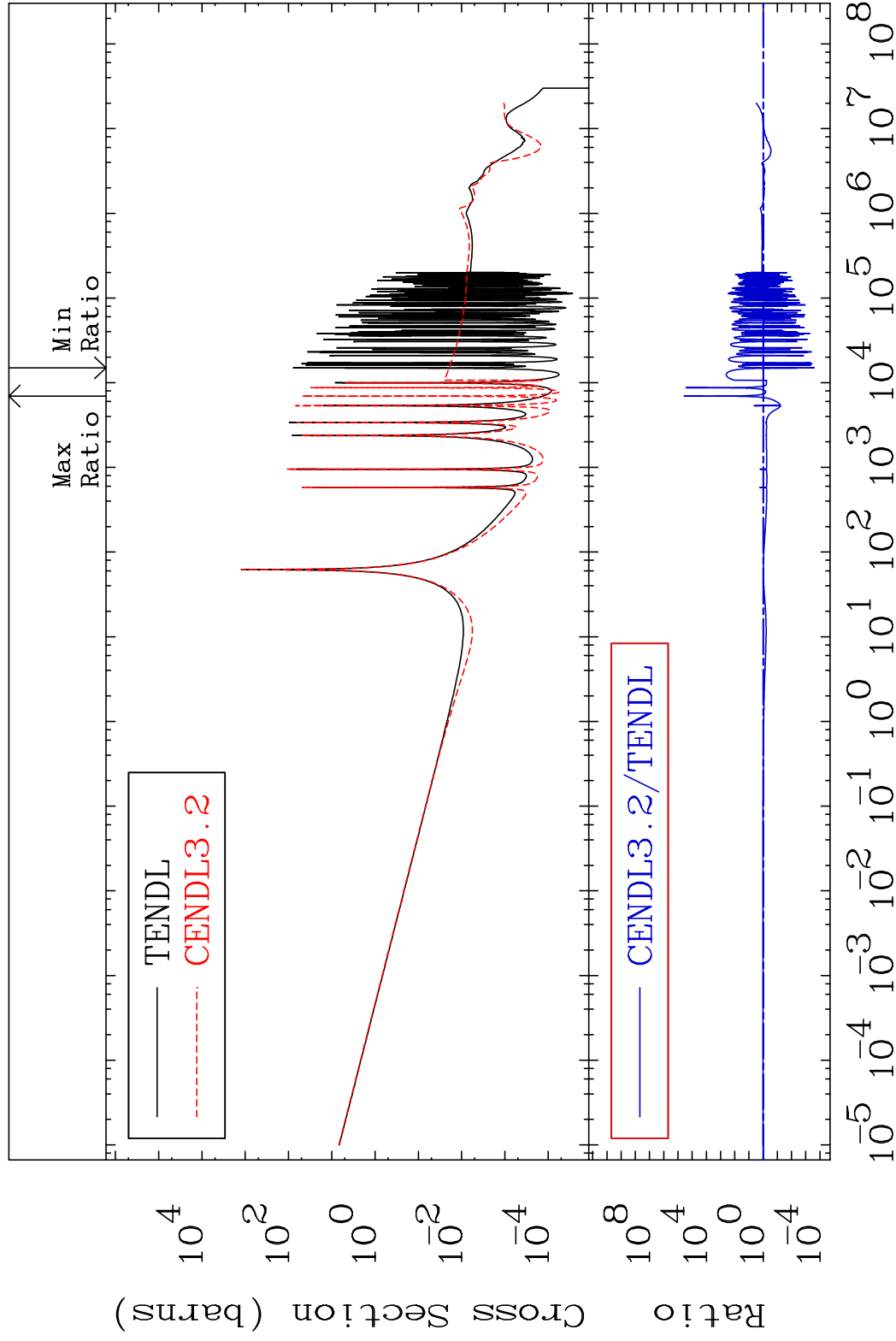
50-Sn-124

MAT 5061

(n,  $\gamma$ )

50-Sn-124

Cross Section -99.97 To 9999. %



38

Incident Energy (eV)

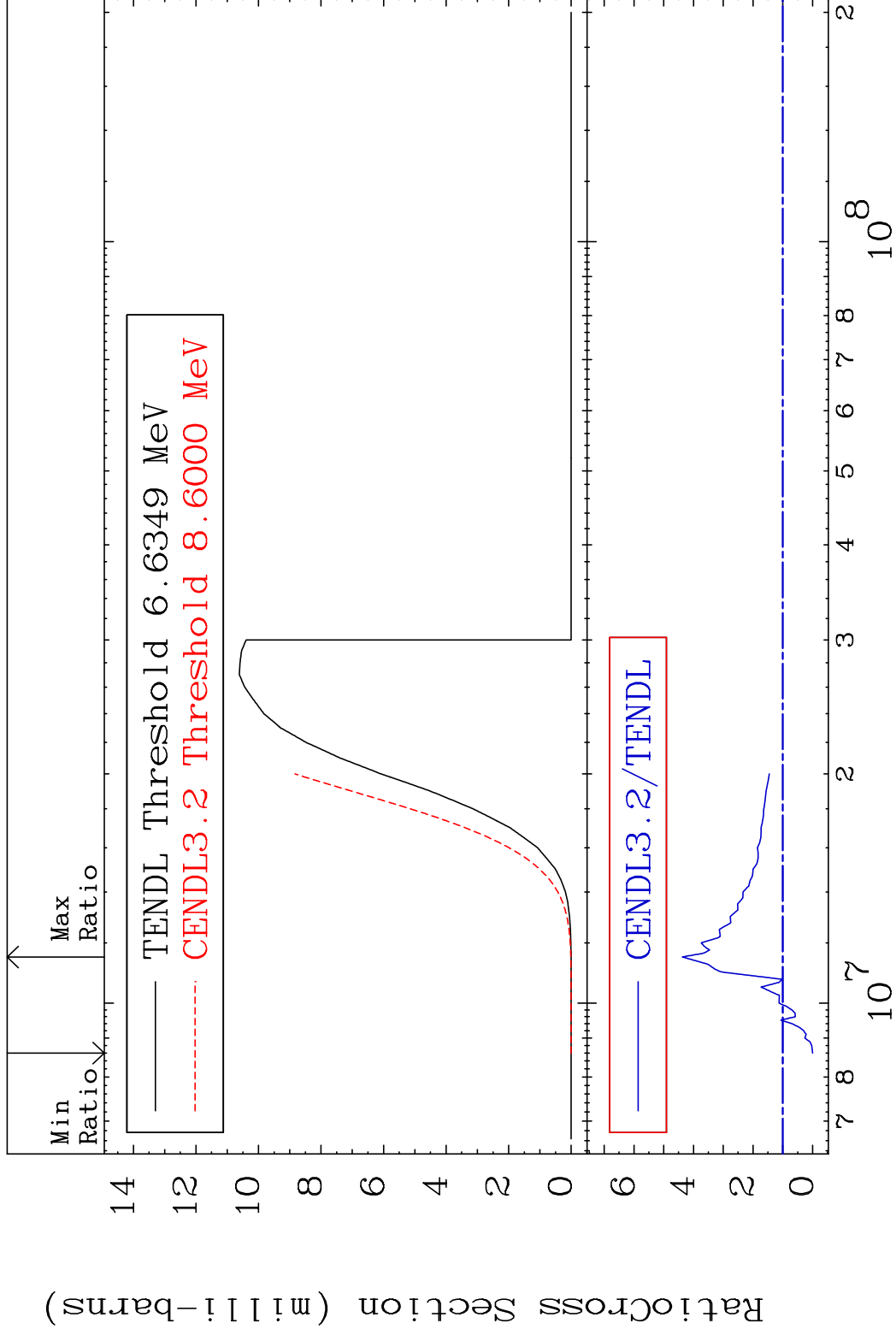
50-Sn-124

MAT 5061

(n,p)

50-Sn-124

Cross Section -100.0 To 337.4 %



39

Incident Energy (eV)

50-Sn-124

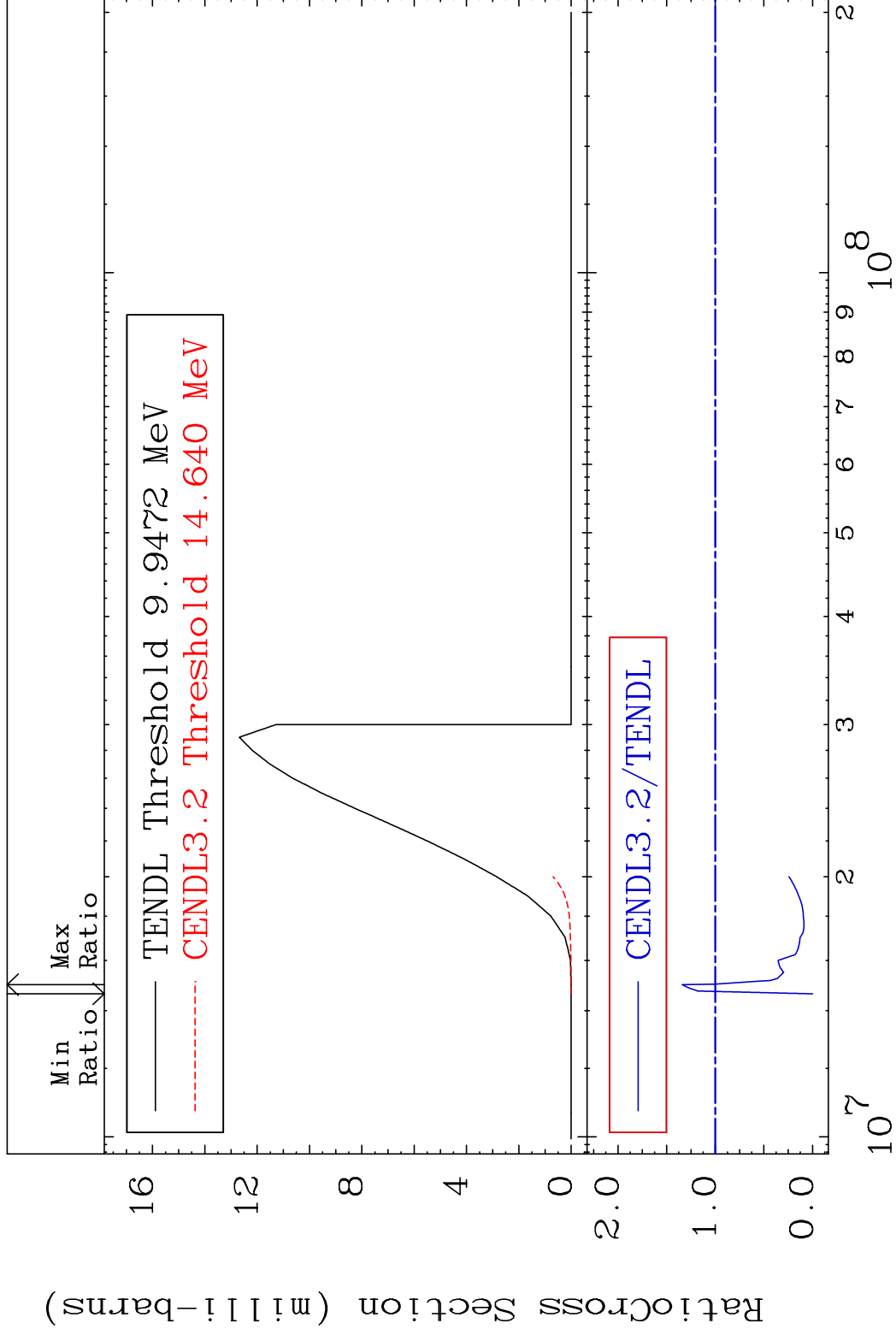


MAT 5061

(n, d)

50-Sn-124

Cross Section -100.0 To 33.84 %



40

Incident Energy (eV)

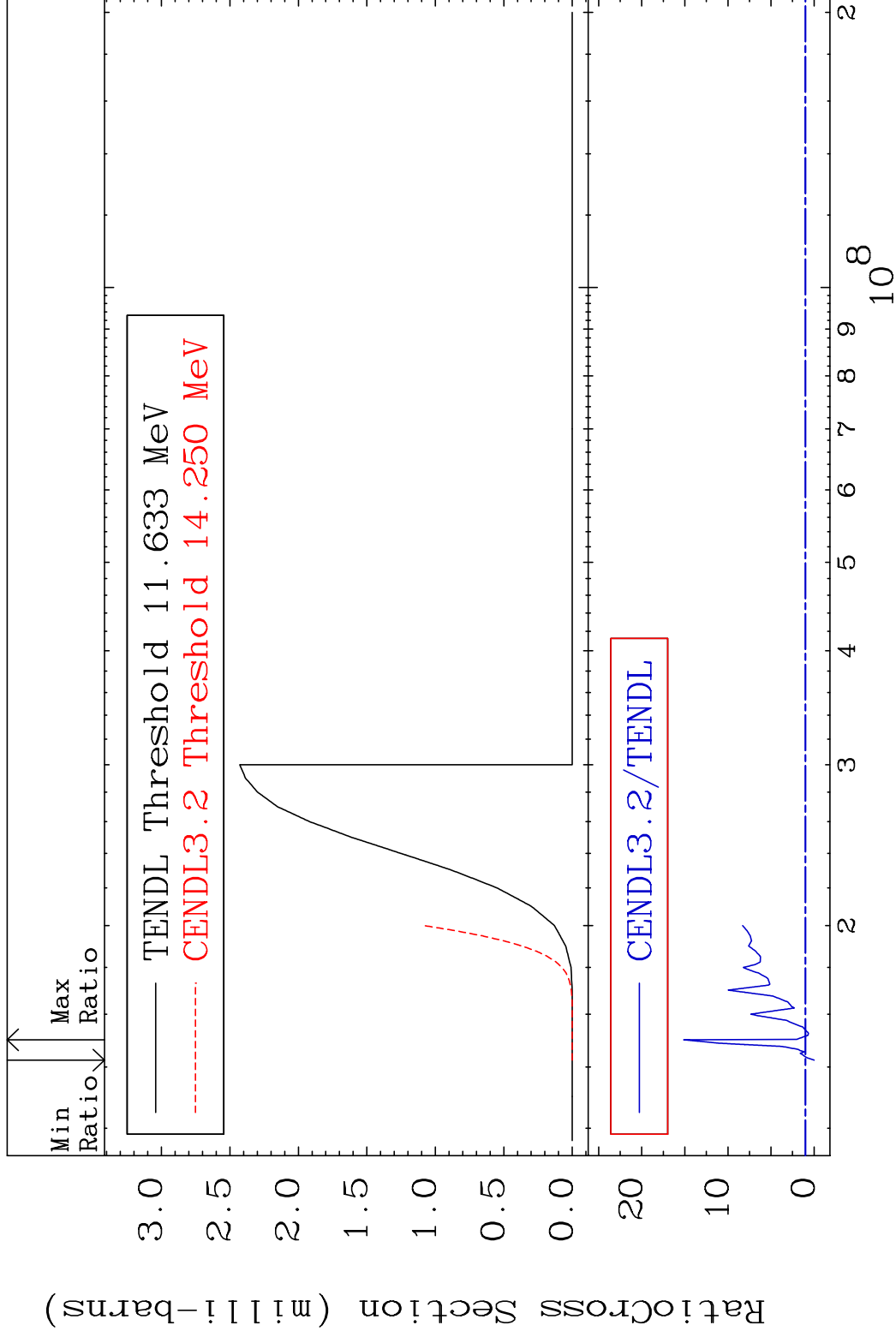
50-Sn-124

MAT 5061

(n, t)

50-Sn-124

Cross Section -100.0 To 1414. %



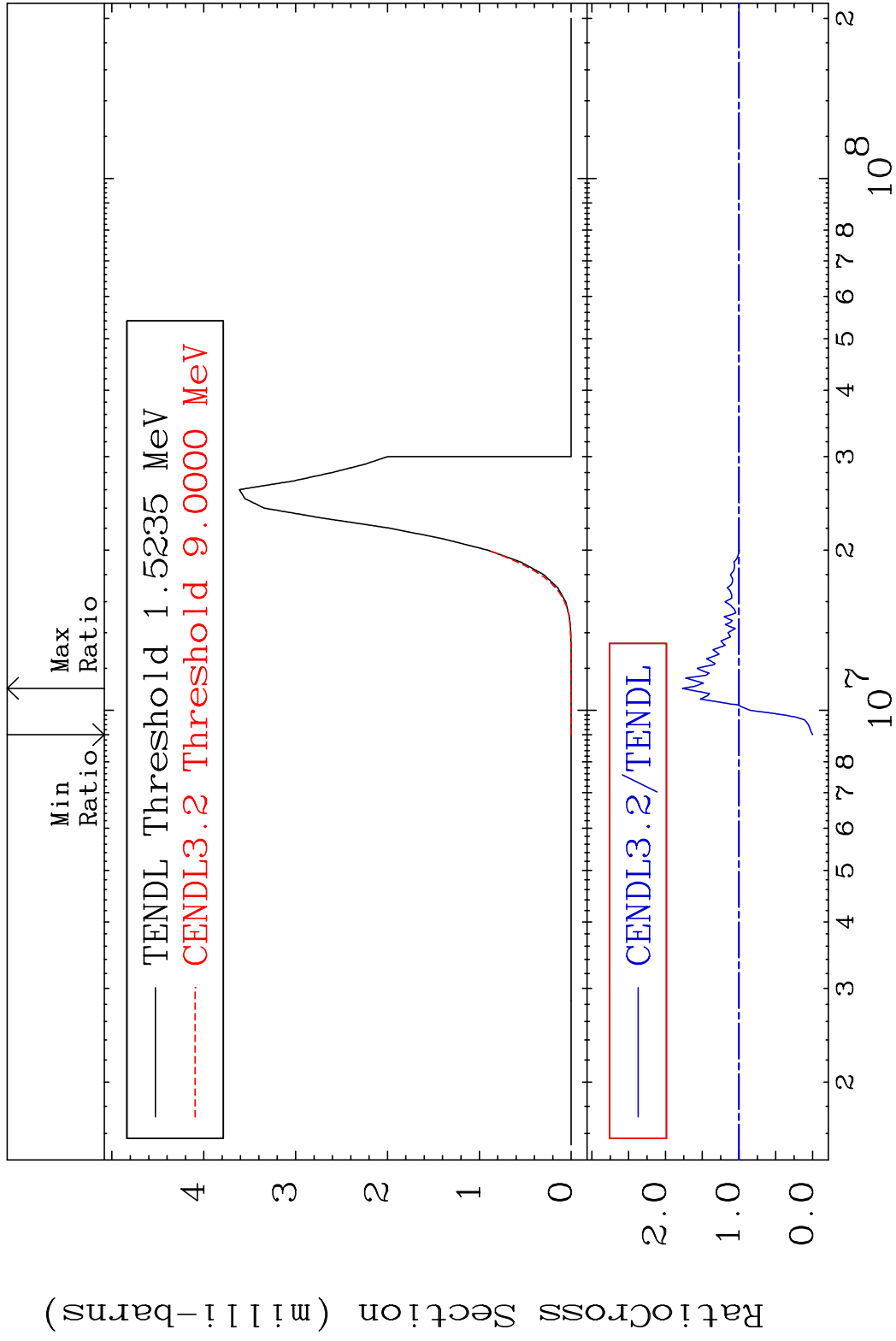
41

Incident Energy (eV)

50-Sn-124

MAT 5061

(n,  $\alpha$ )  
Cross Section -100.0 To 76.99 %  
50-Sn-124

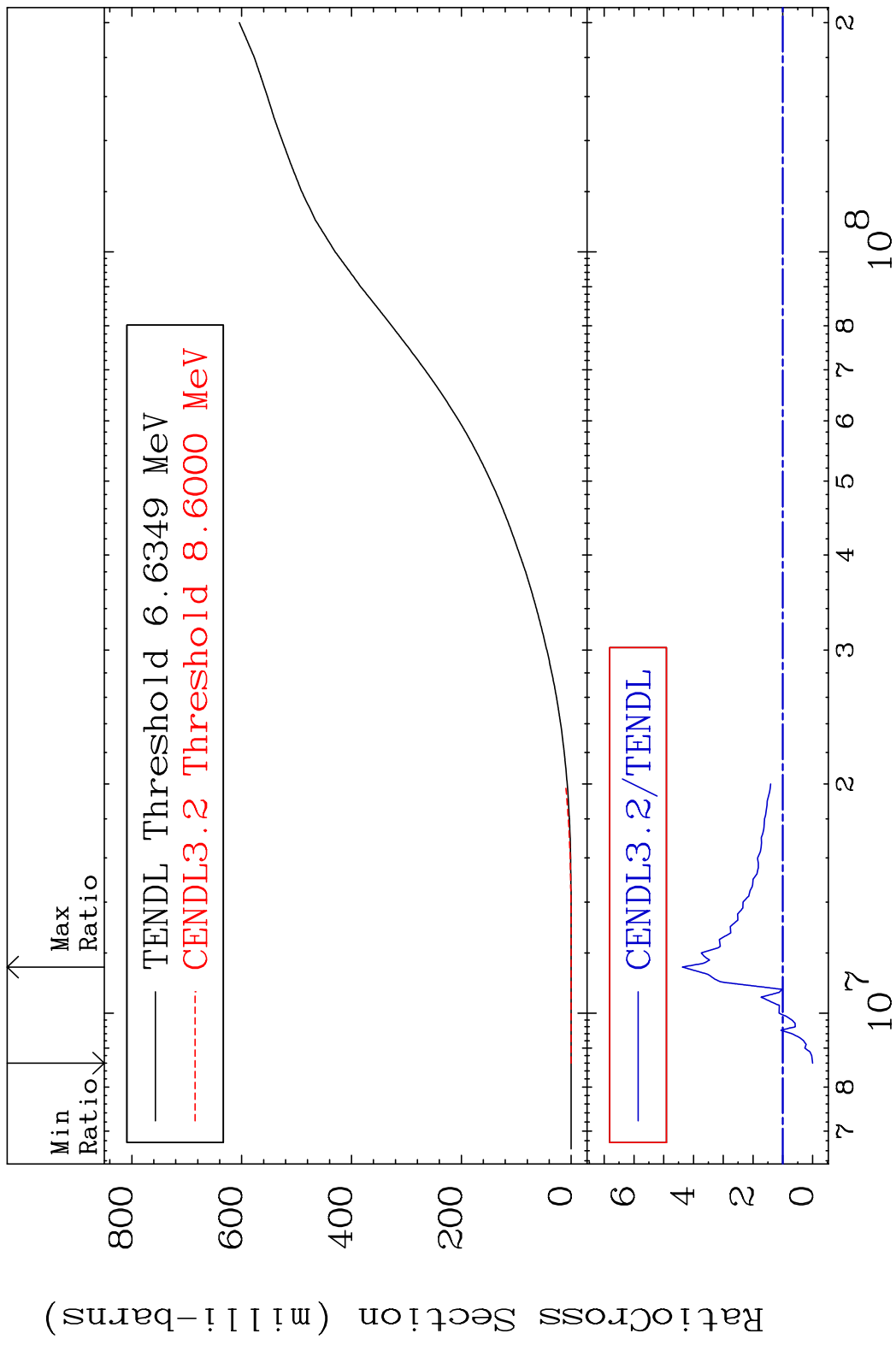


42

Incident Energy (eV)

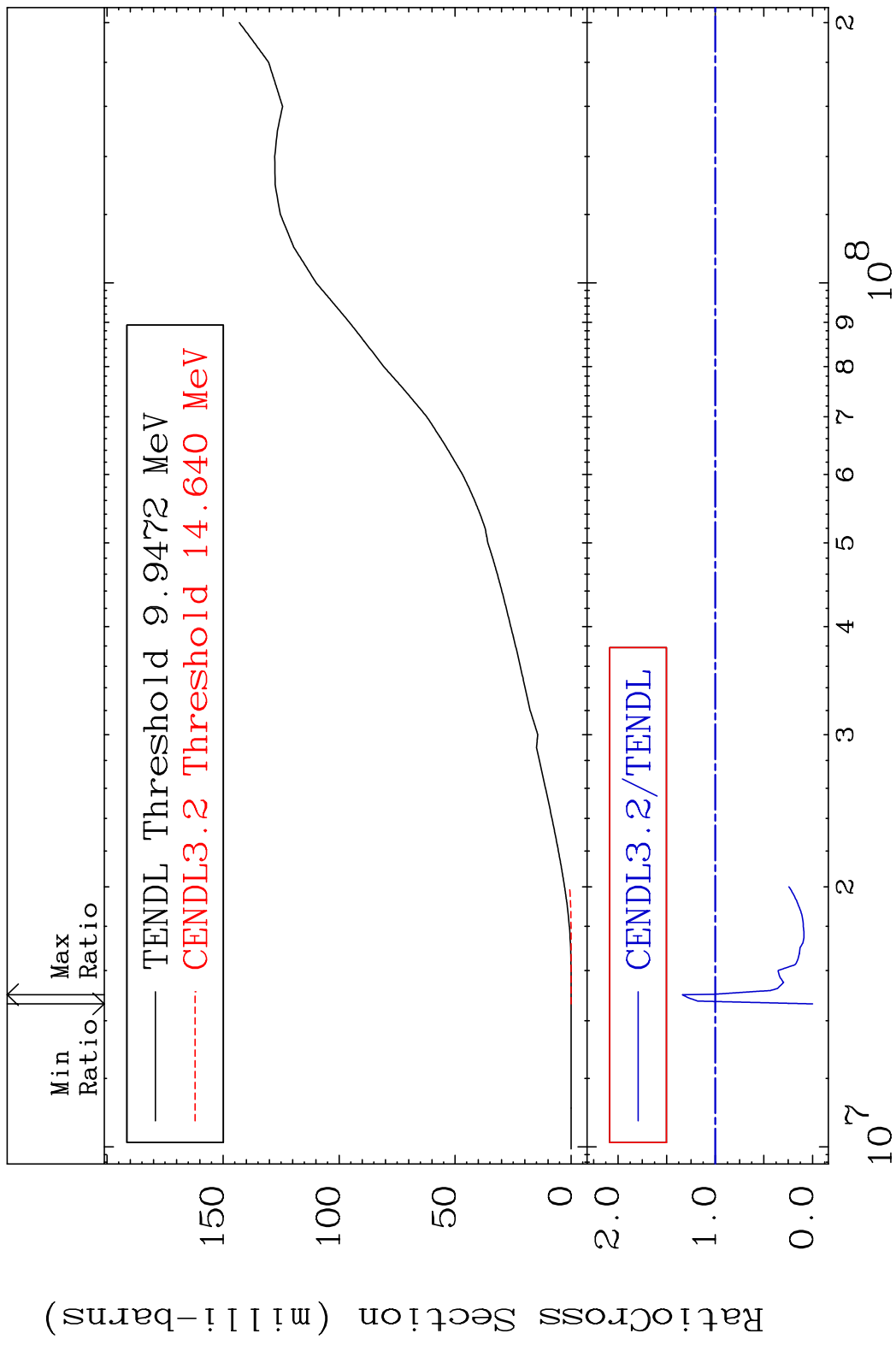
50-Sn-124

MAT 5061 Hydrogen Production 50-Sn-124  
 Cross Section -100.0 To 337.4 %



43 Incident Energy (eV) 50-Sn-124

MAT 5061 Deuterium Production 50-Sn-124  
 Cross Section -100.0 To 33.84 %



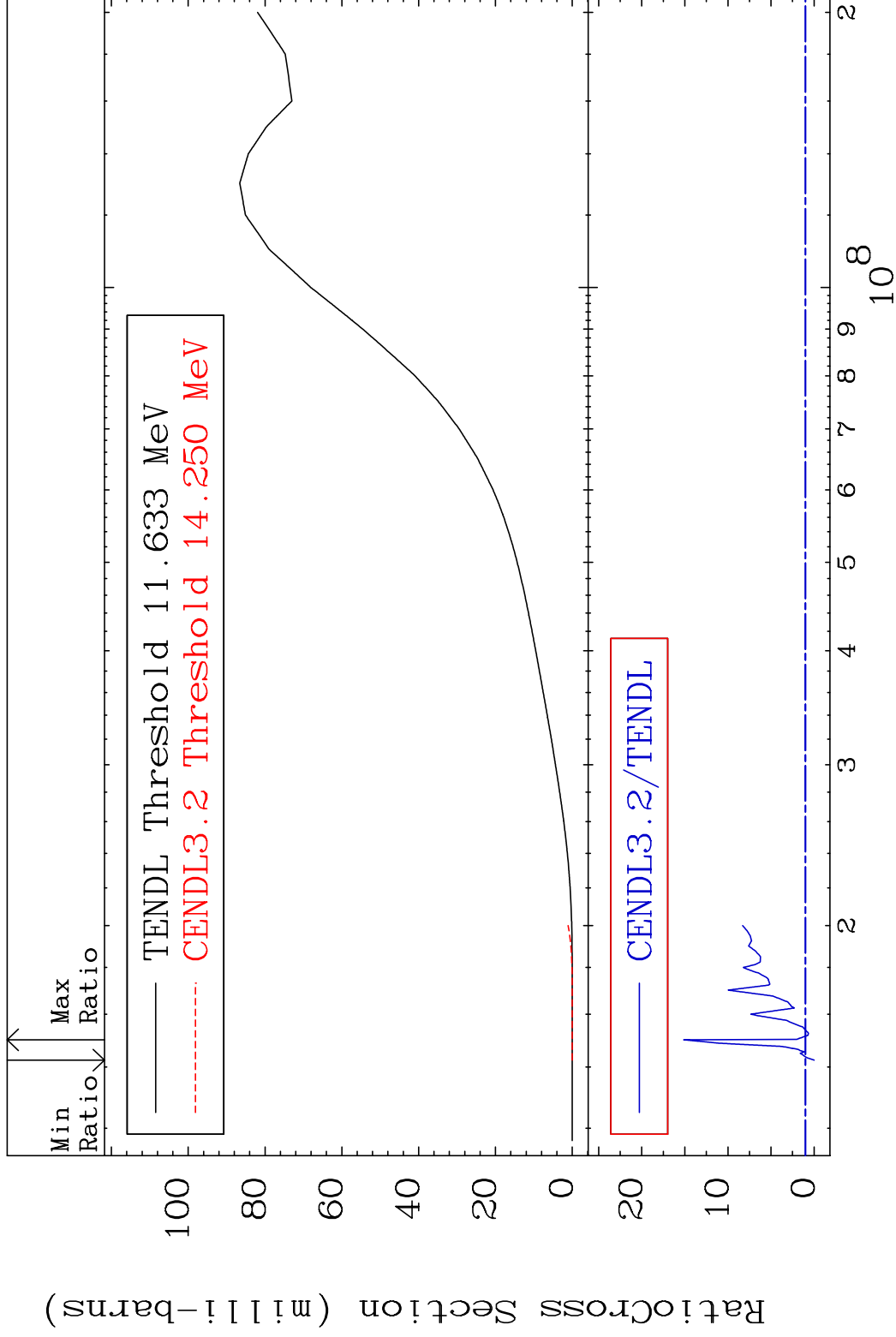
44 50-Sn-124

MAT 5061

Tritium Production

50-Sn-124

Cross Section -100.0 To 1414. %



45

Incident Energy (eV)

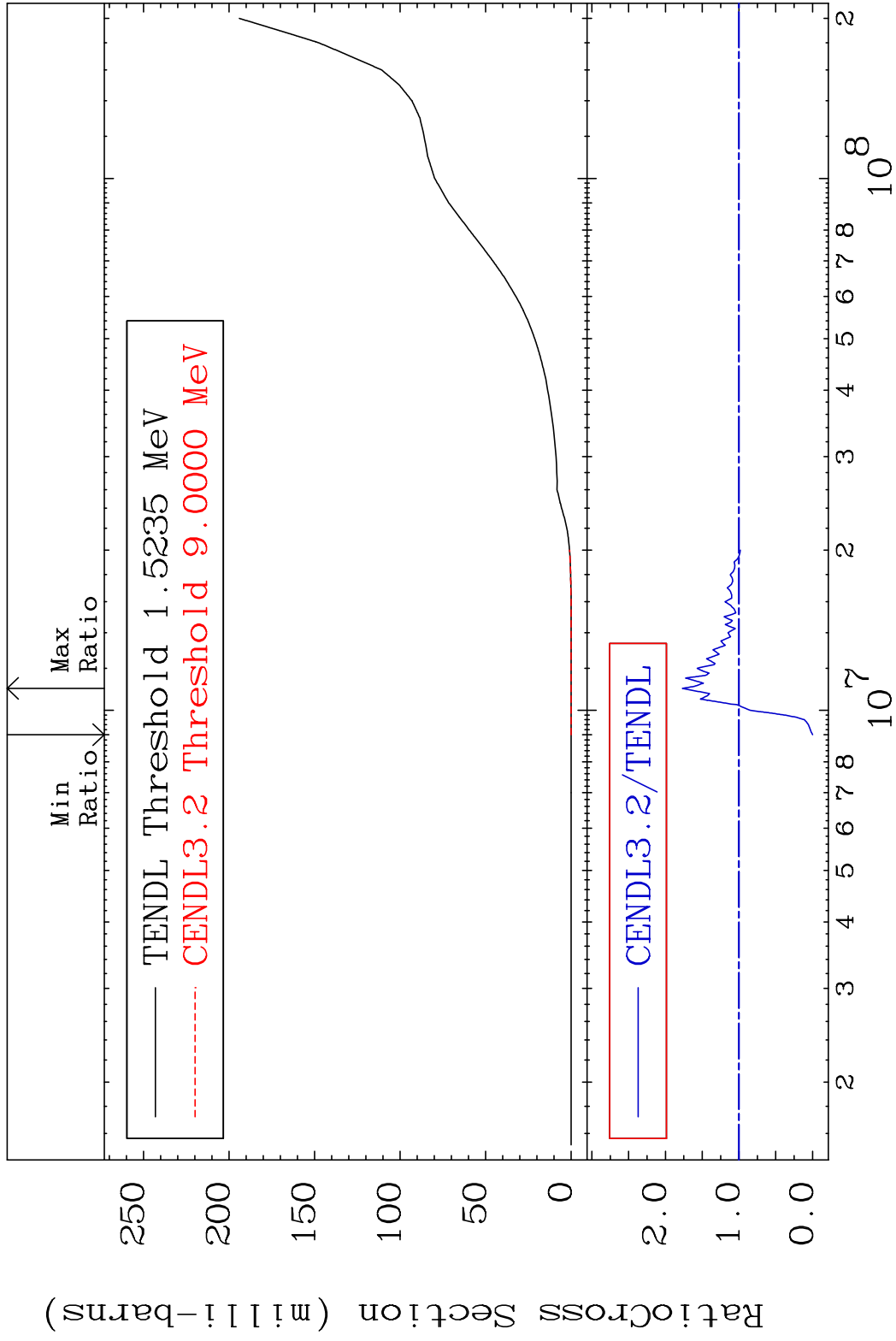
50-Sn-124

MAT 5061

He-4 Production

50-Sn-124

Cross Section -100.0 To 76.99 %

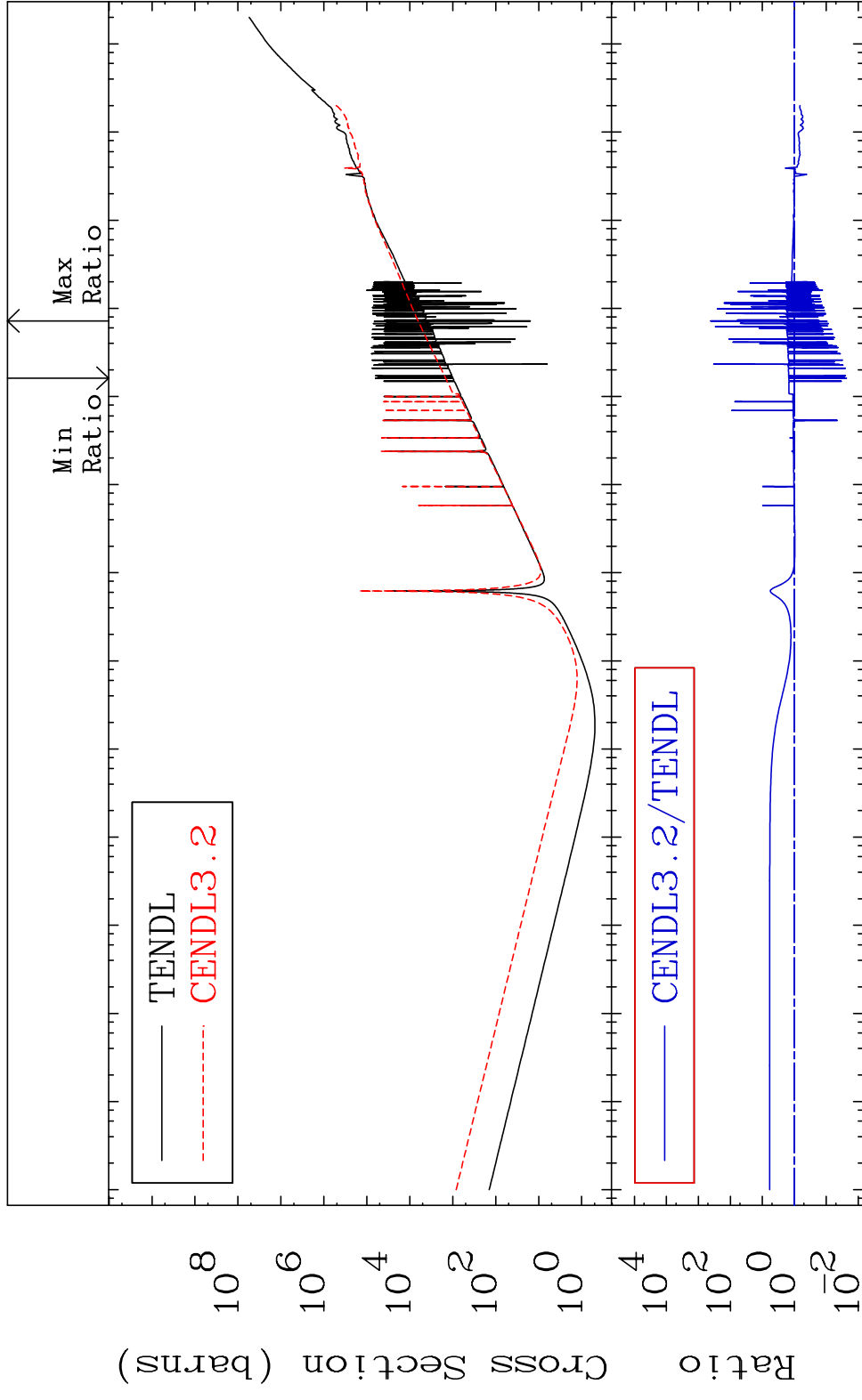


46

Incident Energy (eV)

50-Sn-124

MAT 5061 Kerma total (eV-barns) 50-Sn-124  
 Cross Section -97.65 To 9999. %



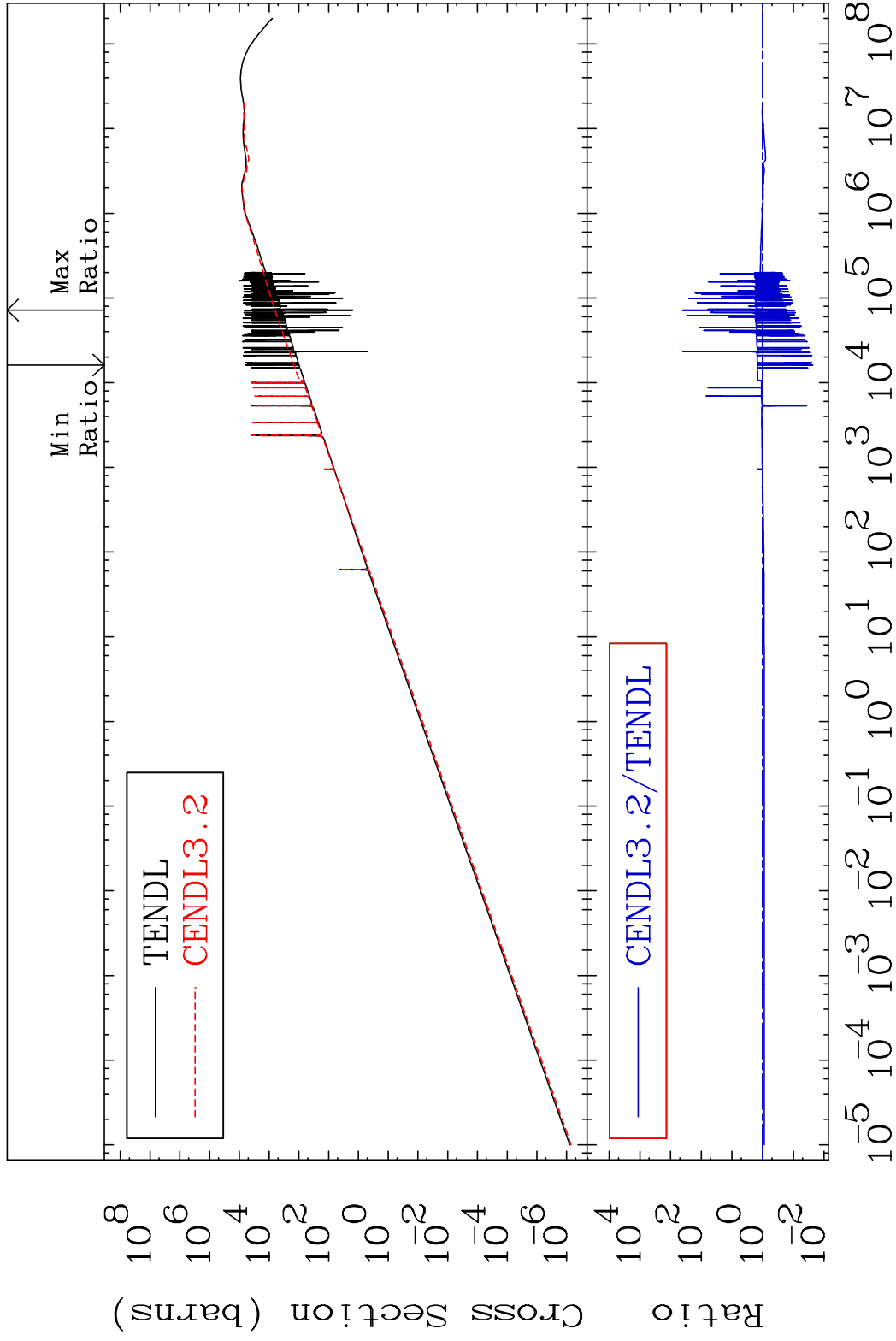
47 Incident Energy (eV) 50-Sn-124



MAT 5061

Kerma elastic  
Cross Section

50-Sn-124  
-97.63 To 9999. %

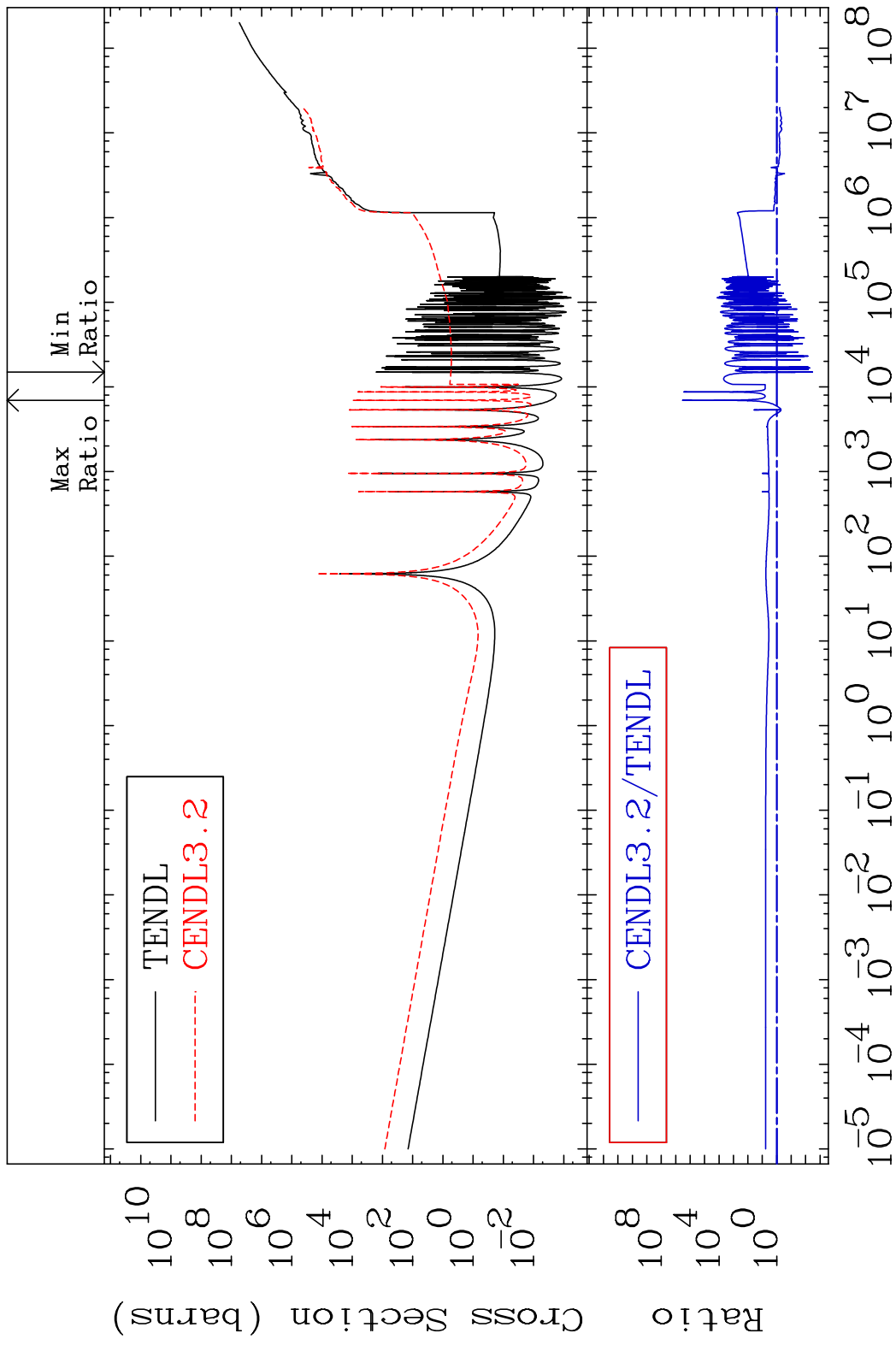


48

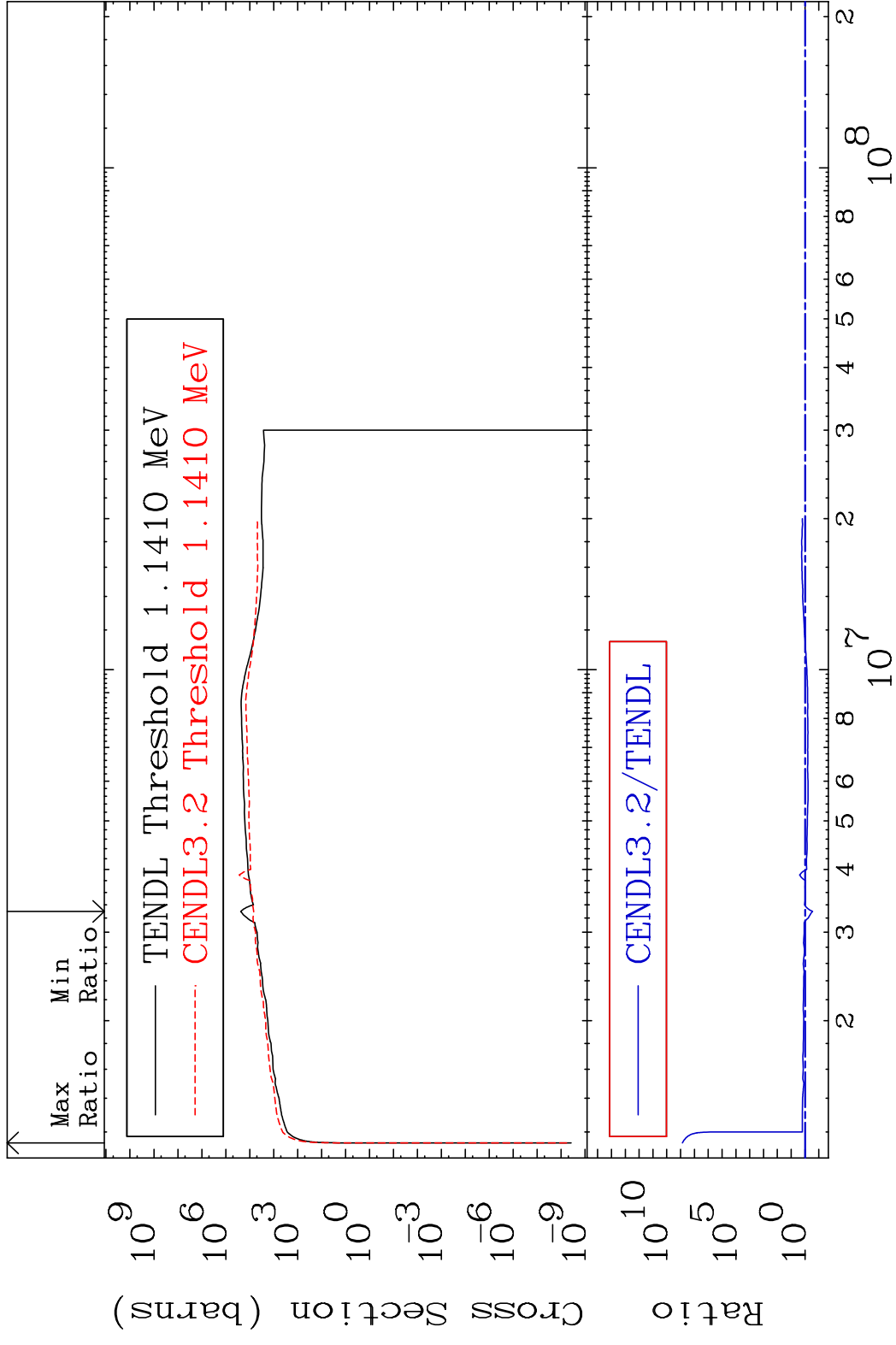
Incident Energy (eV)

50-Sn-124

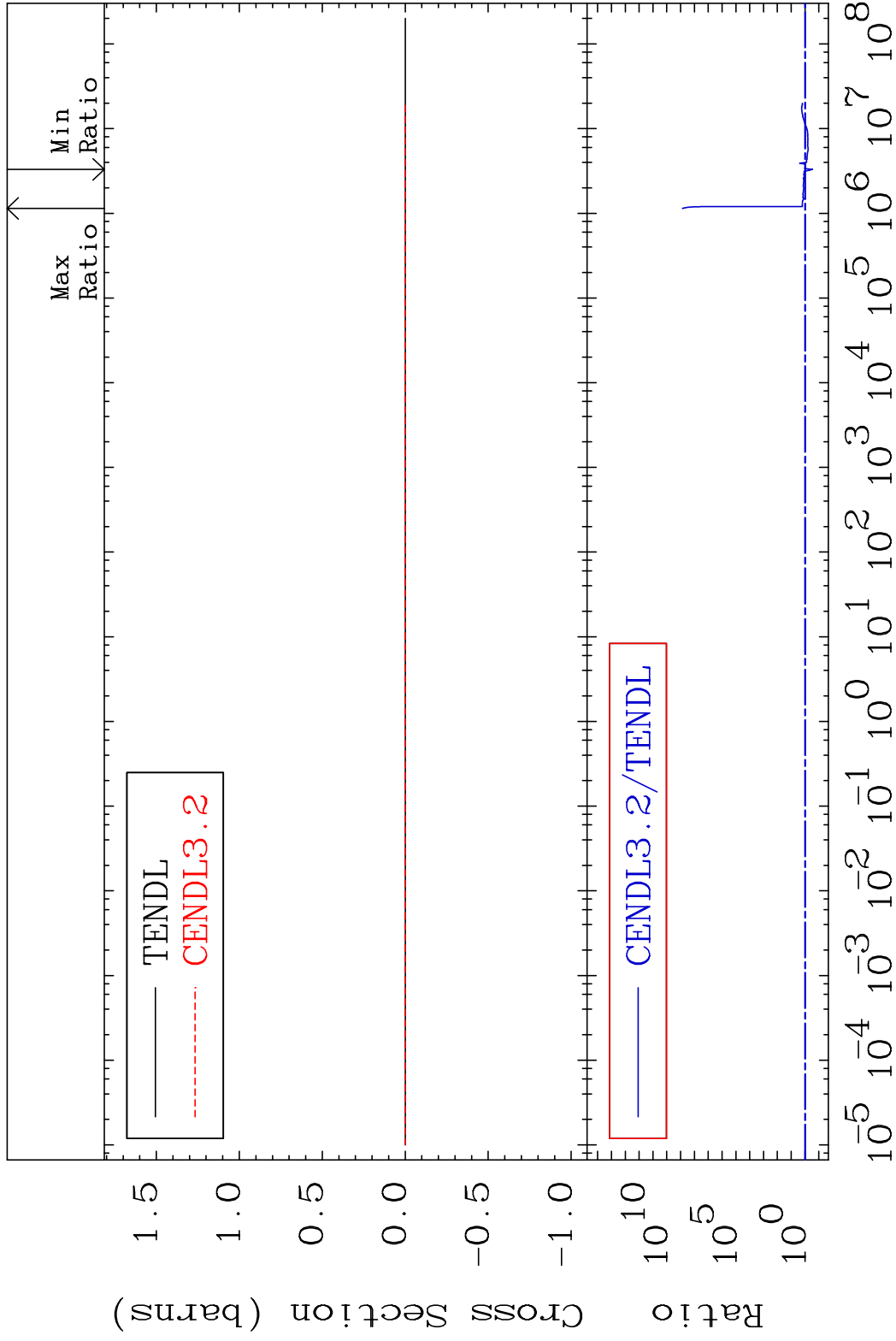
MAT 5061 Kerma non-elastic (all but mt2) 50-Sn-124  
 Cross Section -99.67 To 9999. %



MAT 5061 Kerma inelastic (mt51-91) 50-Sn-124  
 Cross Section -71.61 To 9999. %



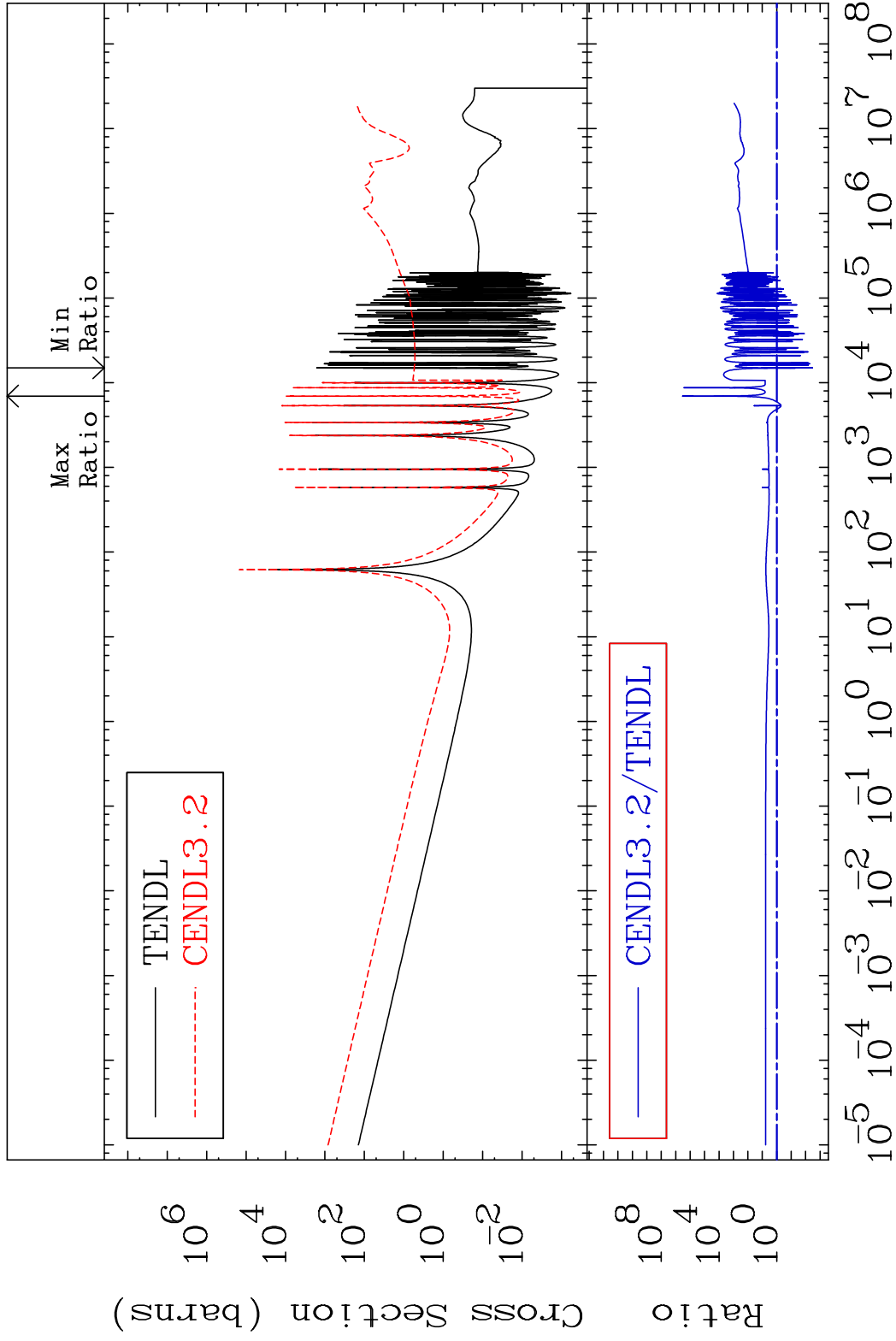
MAT 5061 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-124  
 Cross Section -71.61 To 9999. %



MAT 5061

Kerma capture (mt102) 50-Sn-124

Cross Section -99.67 To 9999. %

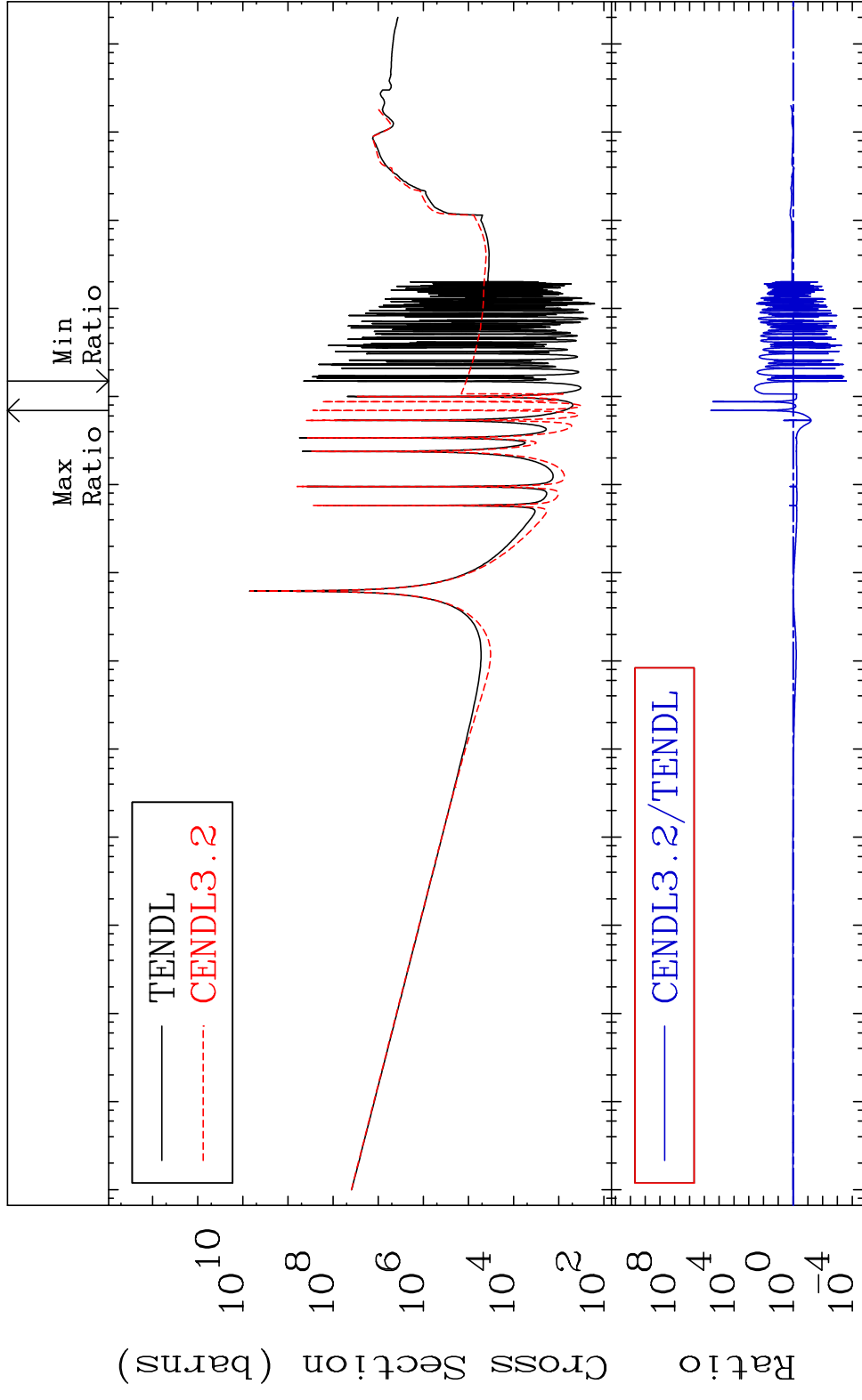


52

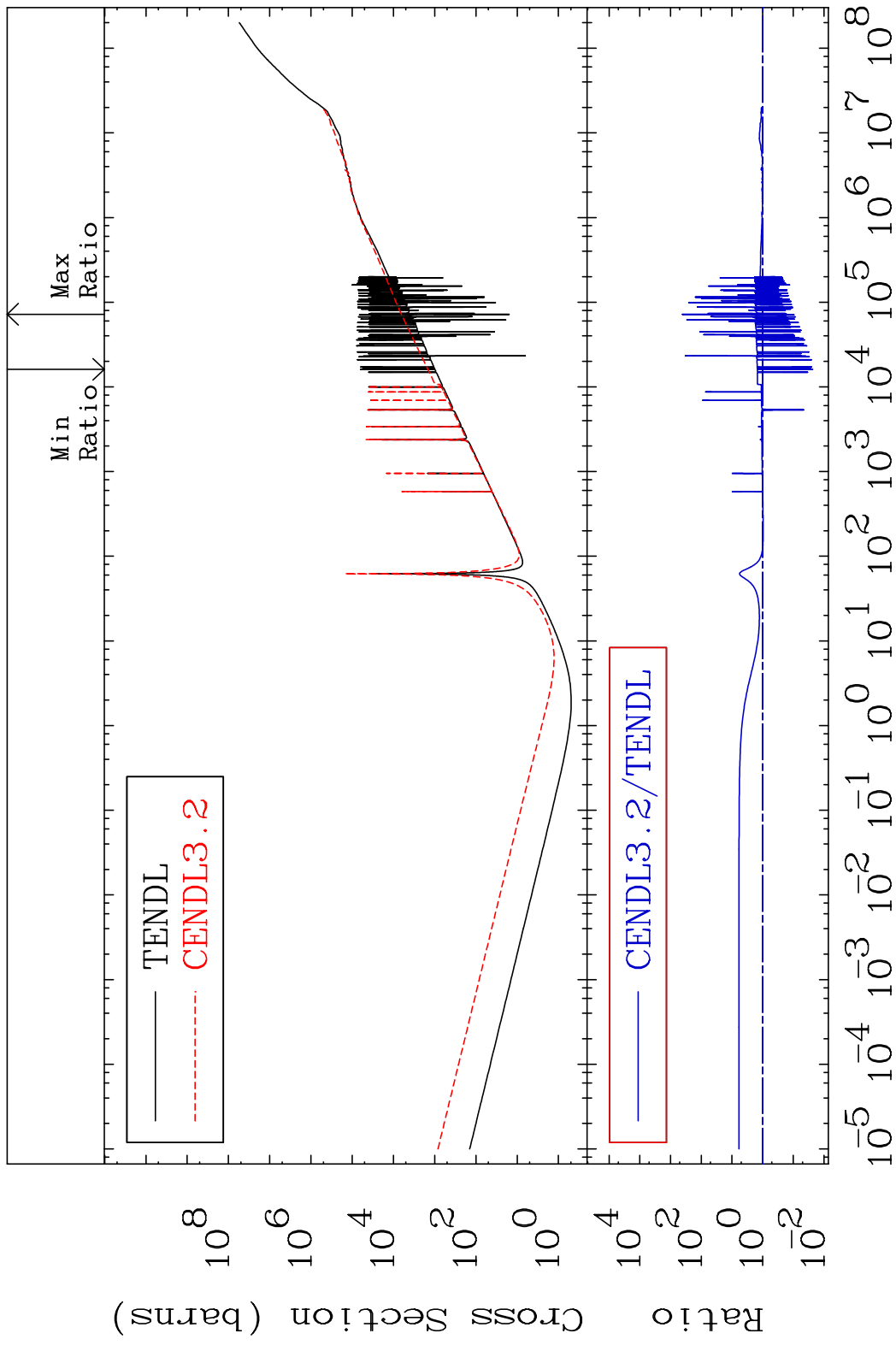
Incident Energy (eV)

50-Sn-124

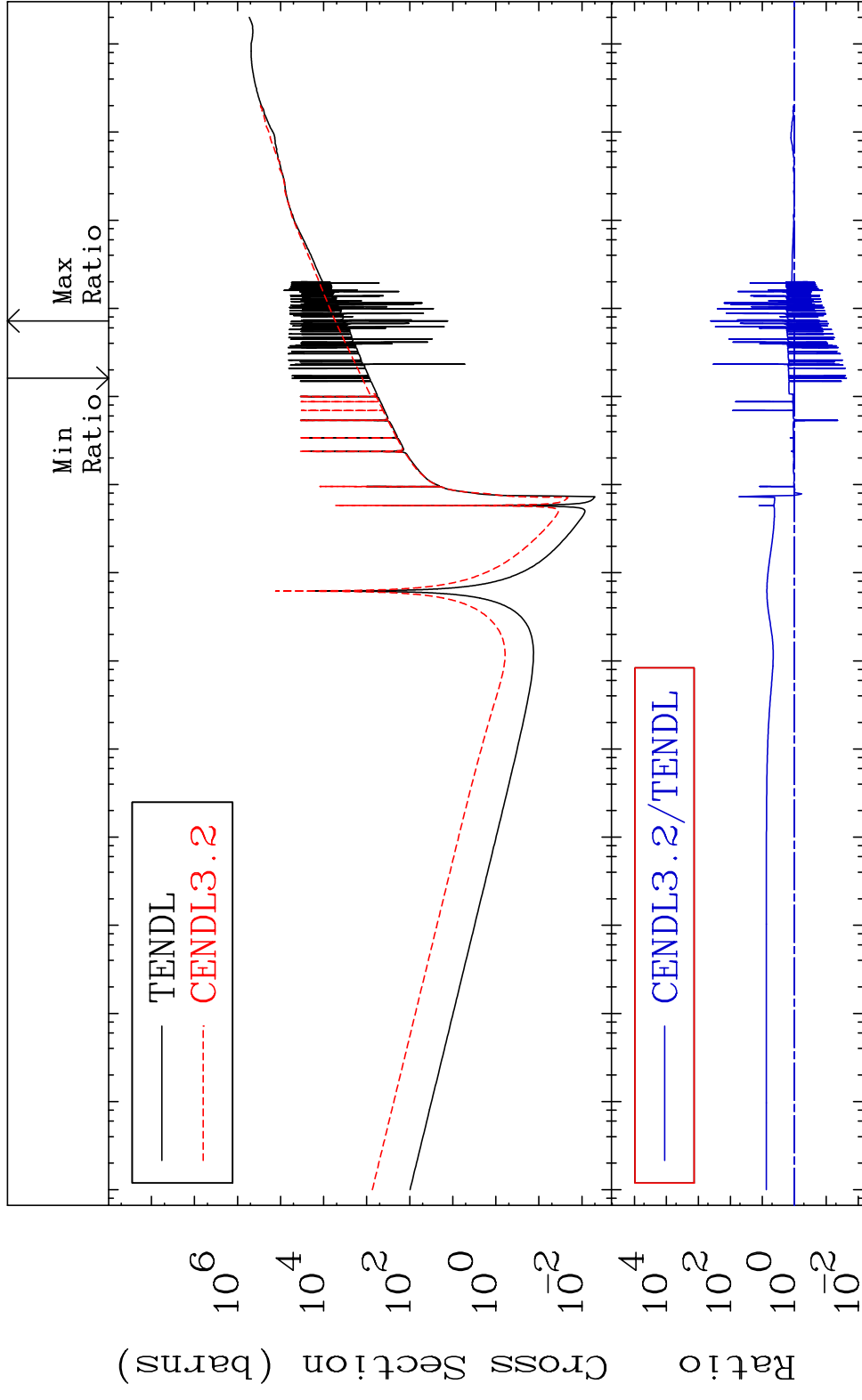
MAT 5061 Total photon (eV-barns) 50-Sn-124  
Cross Section -99.97 To 9999. %



MAT 5061 Total kinematic kerma (high limit) 50-Sn-124  
 Cross Section -97.65 To 9999. %



MAT 5061      Dpa total (eV-barns)      50-Sn-124  
 Cross Section      -97.65 To 9999. %



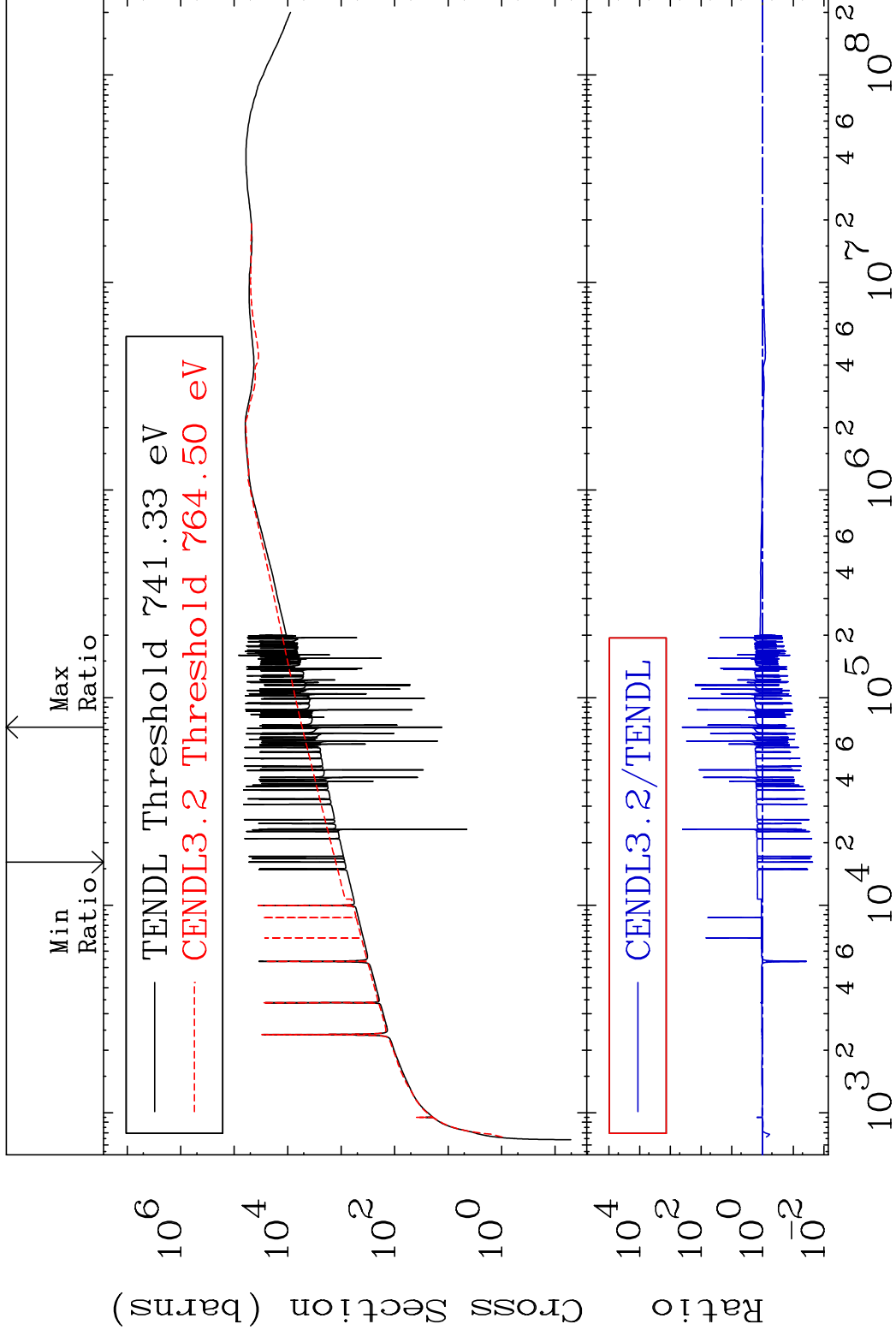


MAT 5061

Dpa elastic (mt2)

50-Sn-124

Cross Section -97.63 To 9999. %

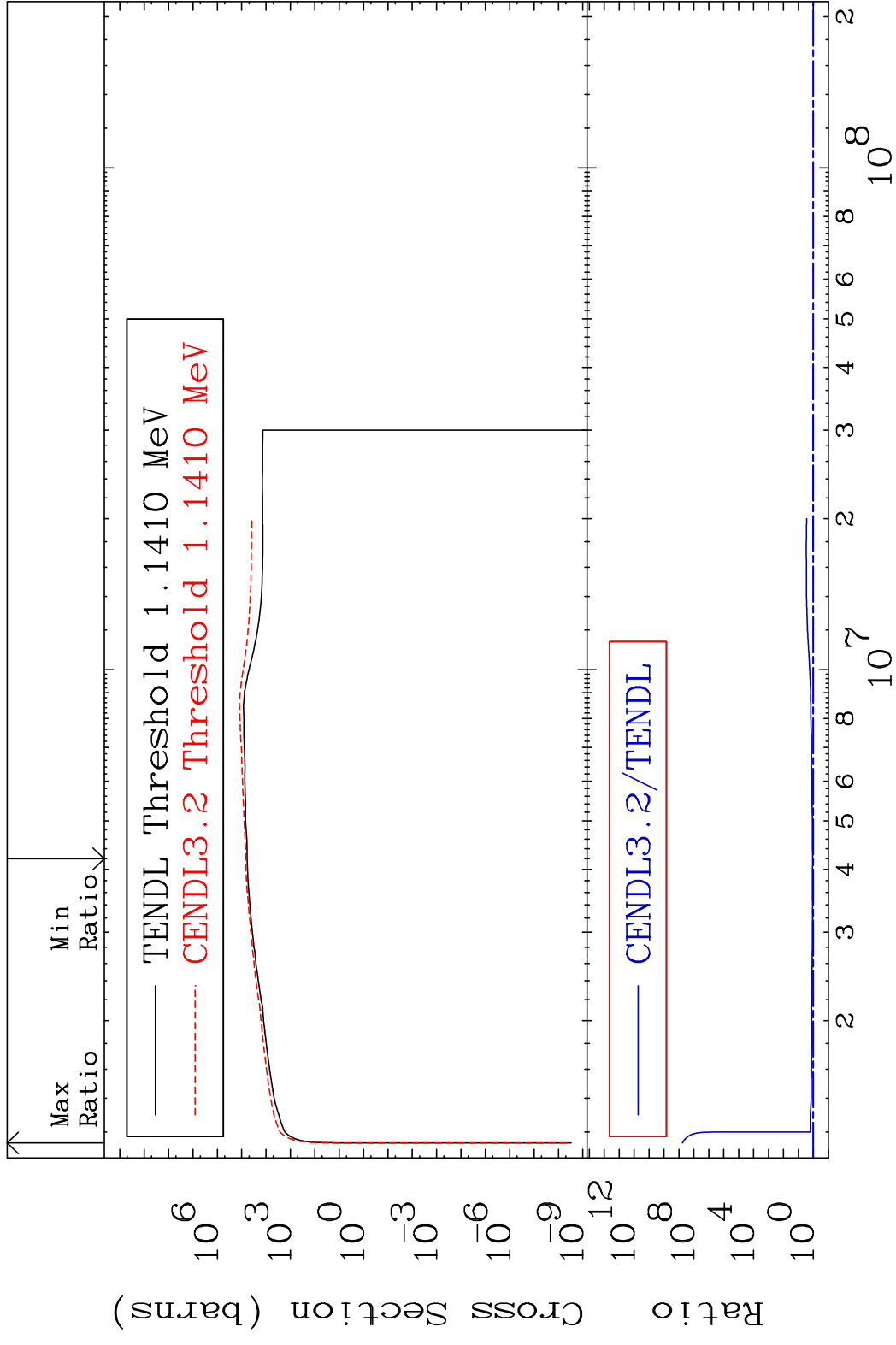


56

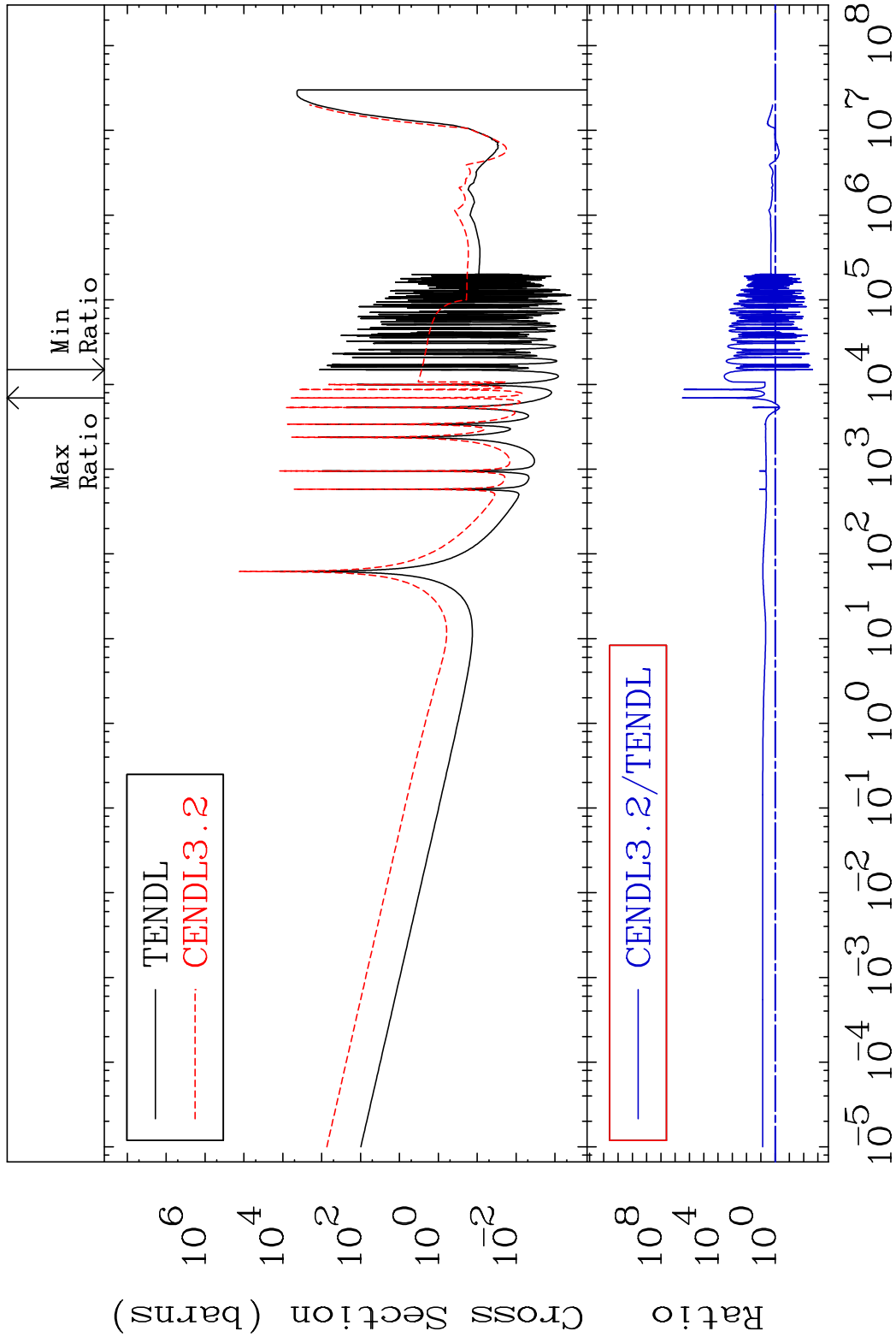
Incident Energy (eV)

50-Sn-124

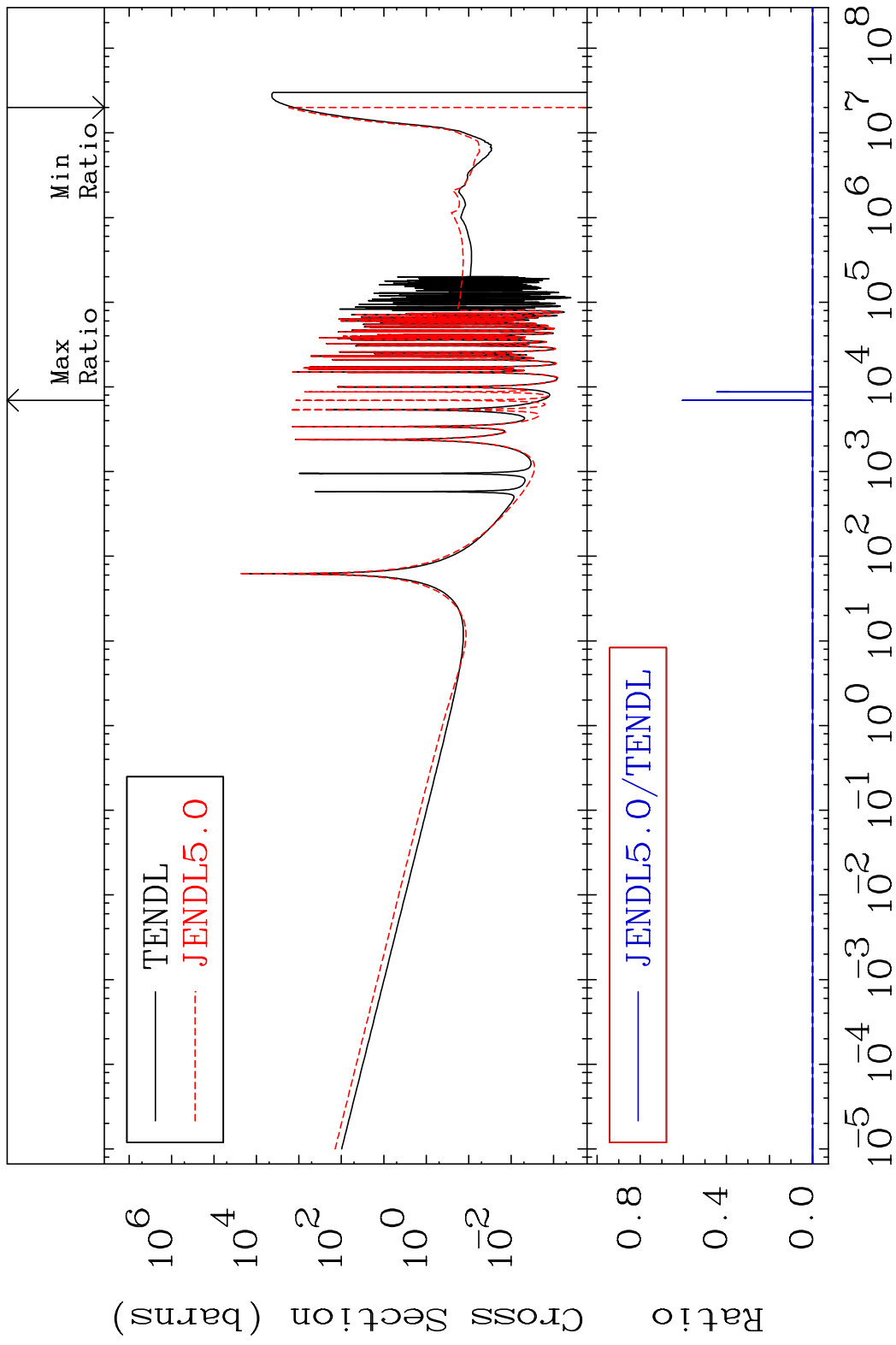
MAT 5061      Dpa inelastic (mt51-91)      50-Sn-124  
 Cross Section    13.00    To 9999. %



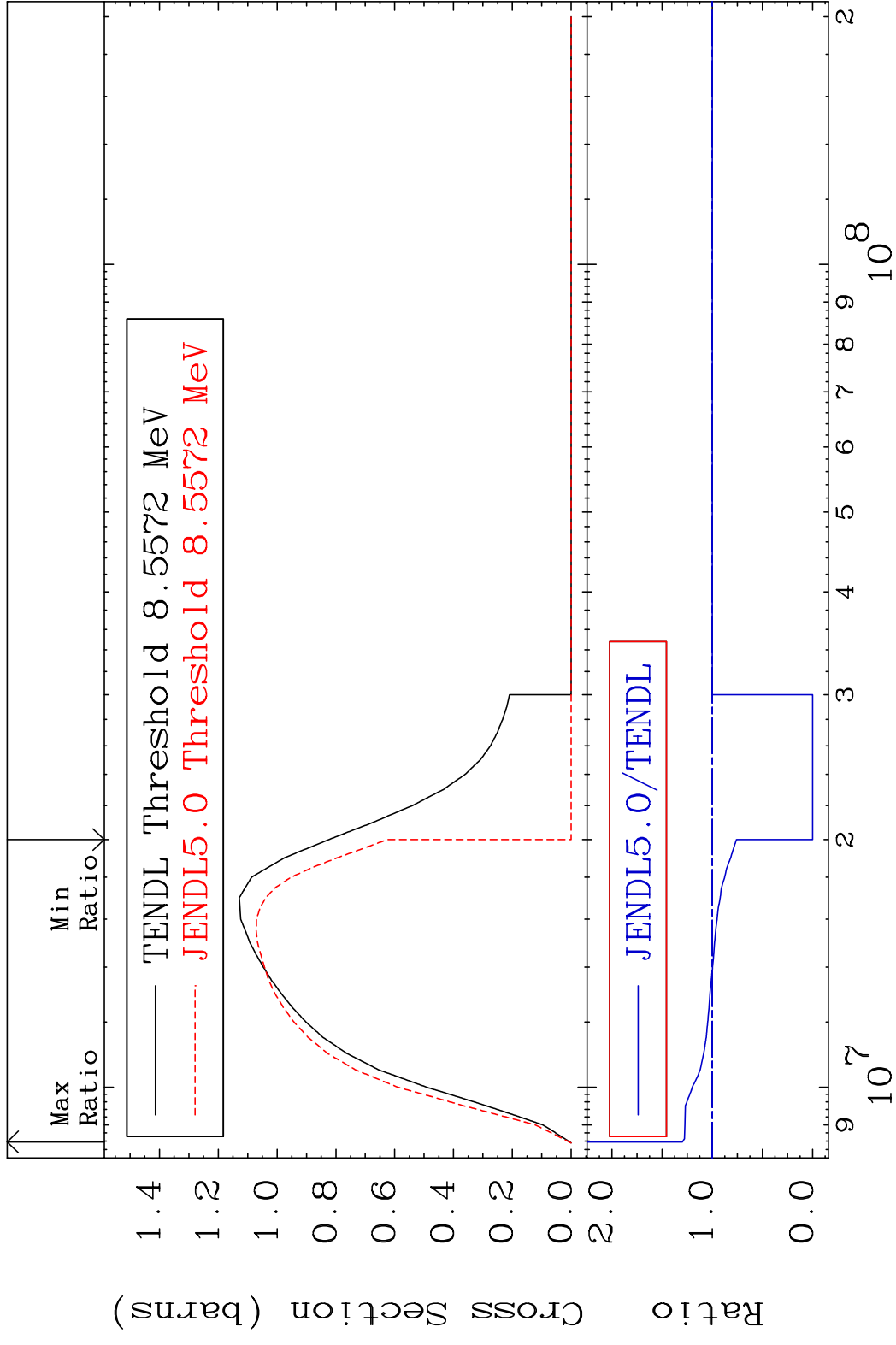
MAT 5061 Dpa disappearance (mt102 -120) 50-Sn-124  
 Cross Section -99.76 To 9999. %



MAT 5061 Dpa disappearance (mt102 -120) 50-Sn-124  
 Cross Section -100.0 To 9999. %

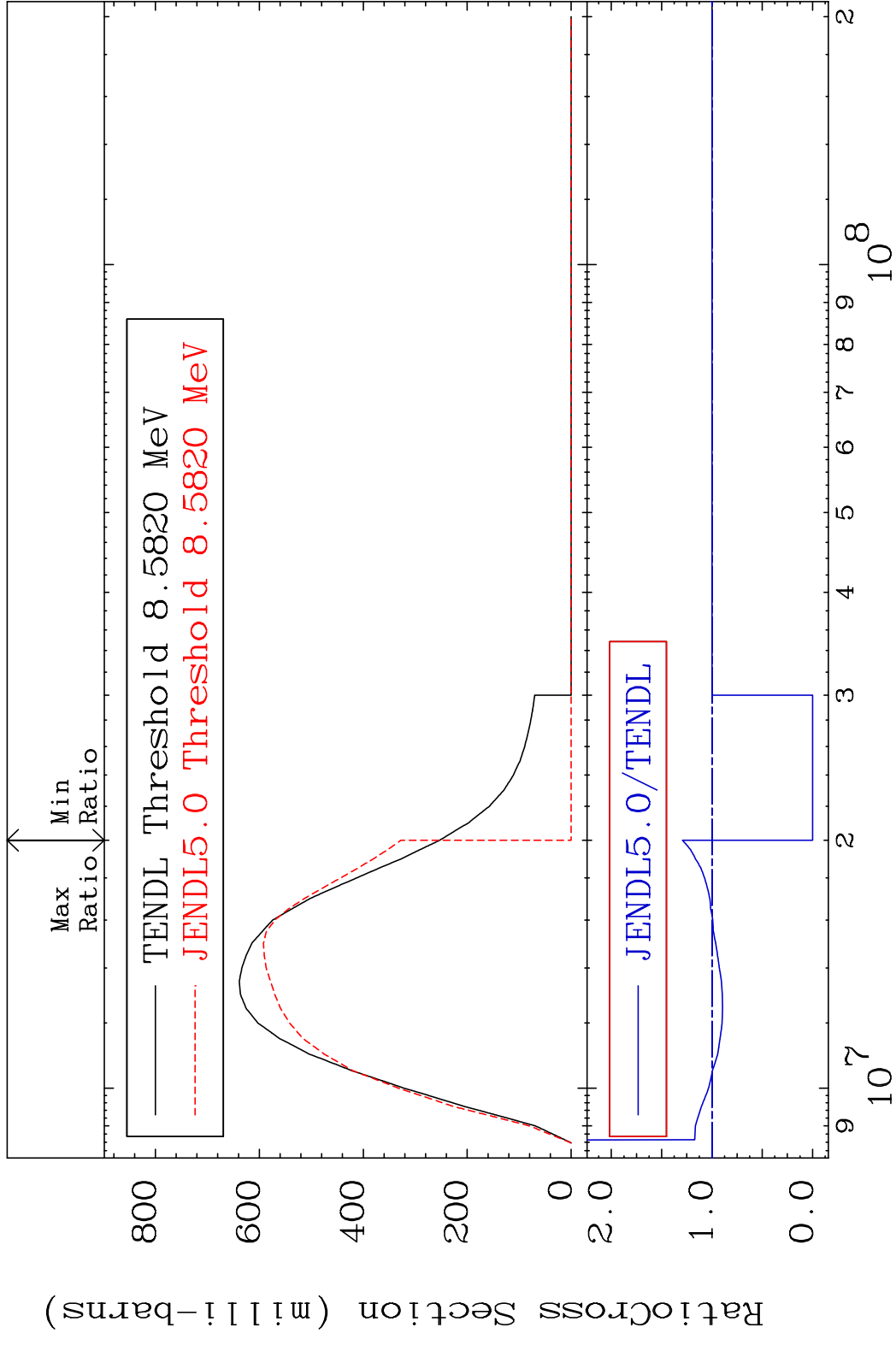


MAT 5061 (n,2n):50-Sn-123g 50-Sn-124  
 Radionuclide Production Cross Section Ratio 29.77 %

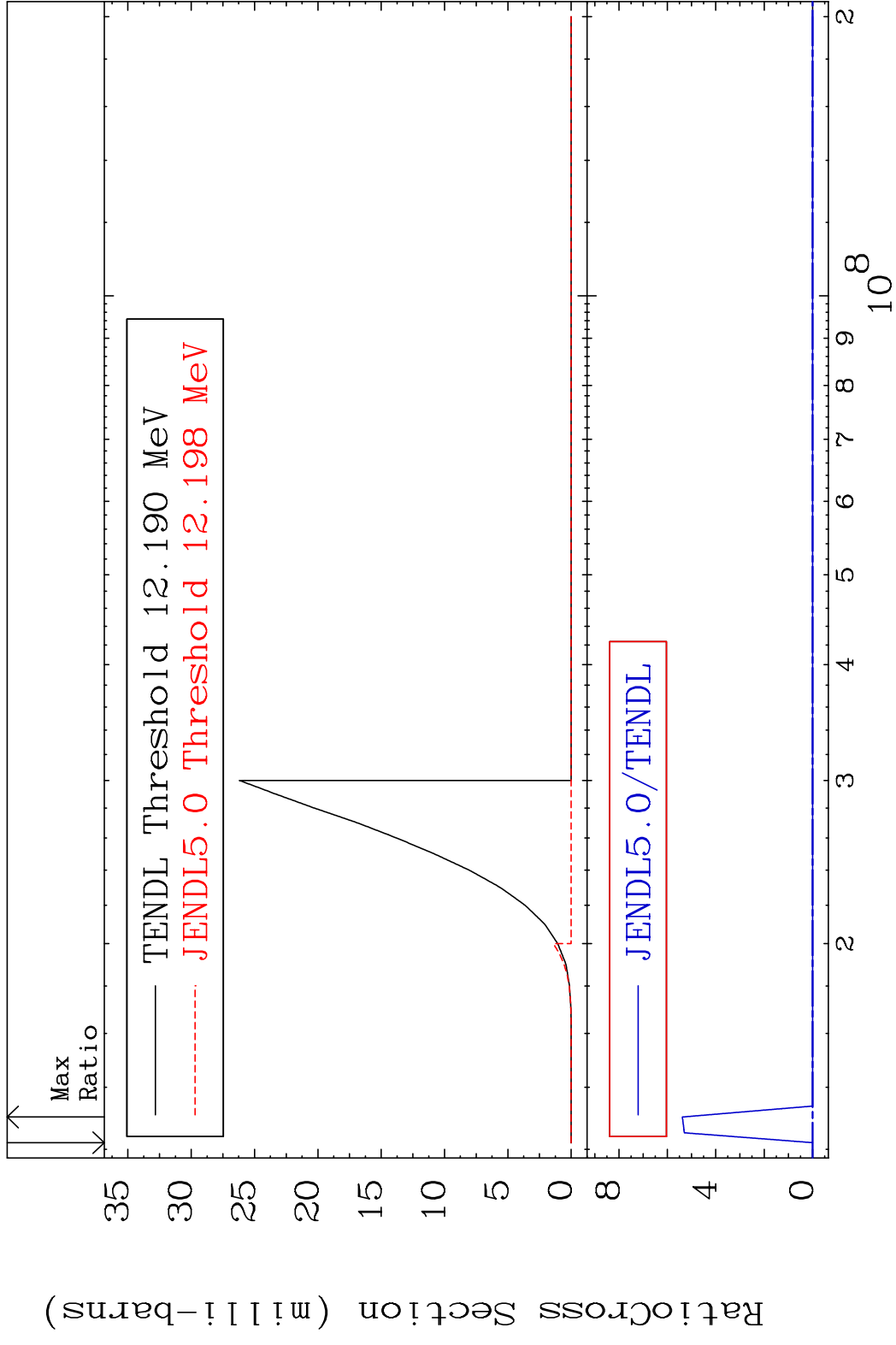


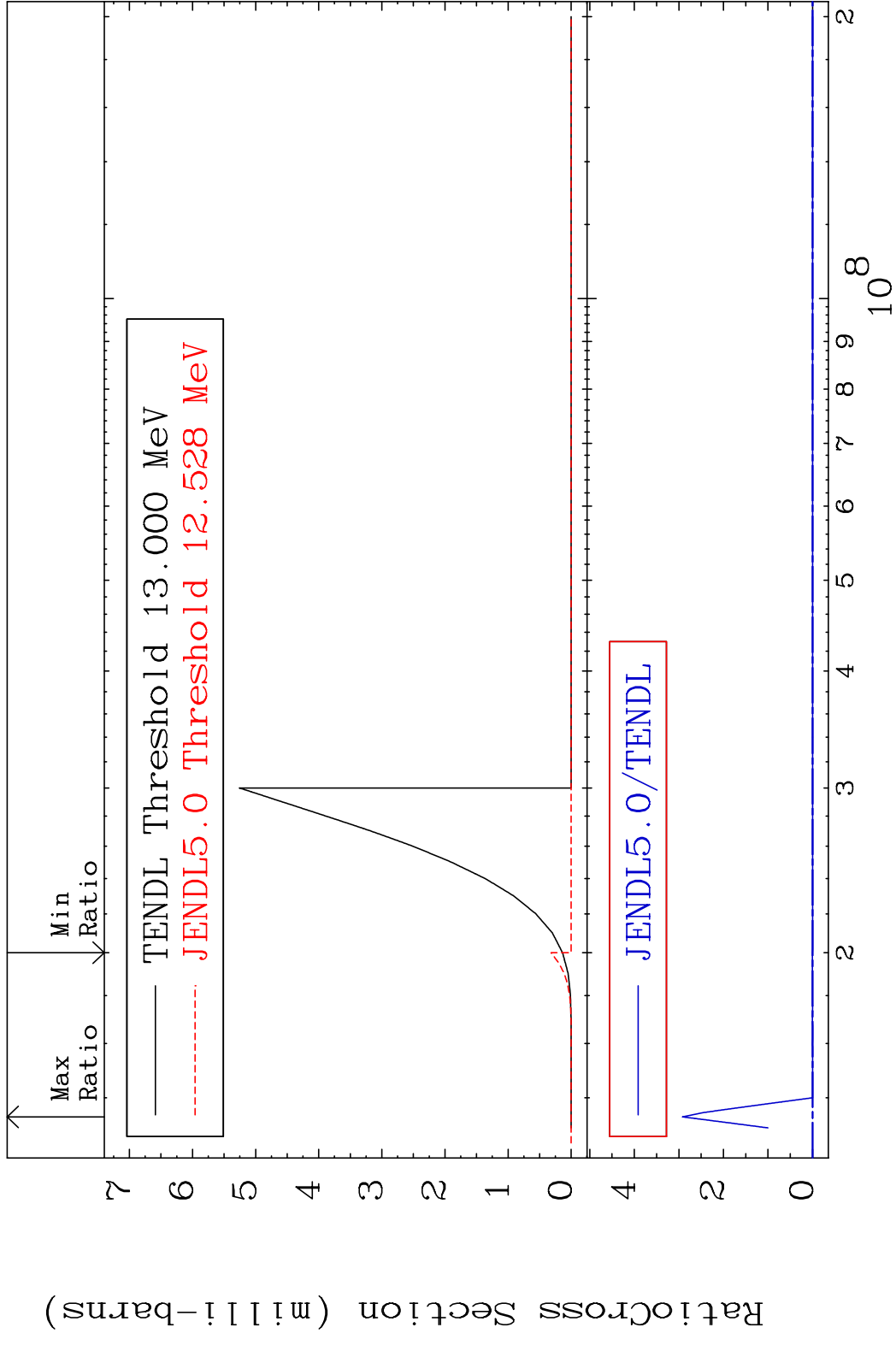
60 Incident Energy (eV) 50-Sn-124

MAT 5061 (n,2n):50-Sn-123m1 50-Sn-124  
 Radionuclide Production Cross Section Ratio 29.42 %



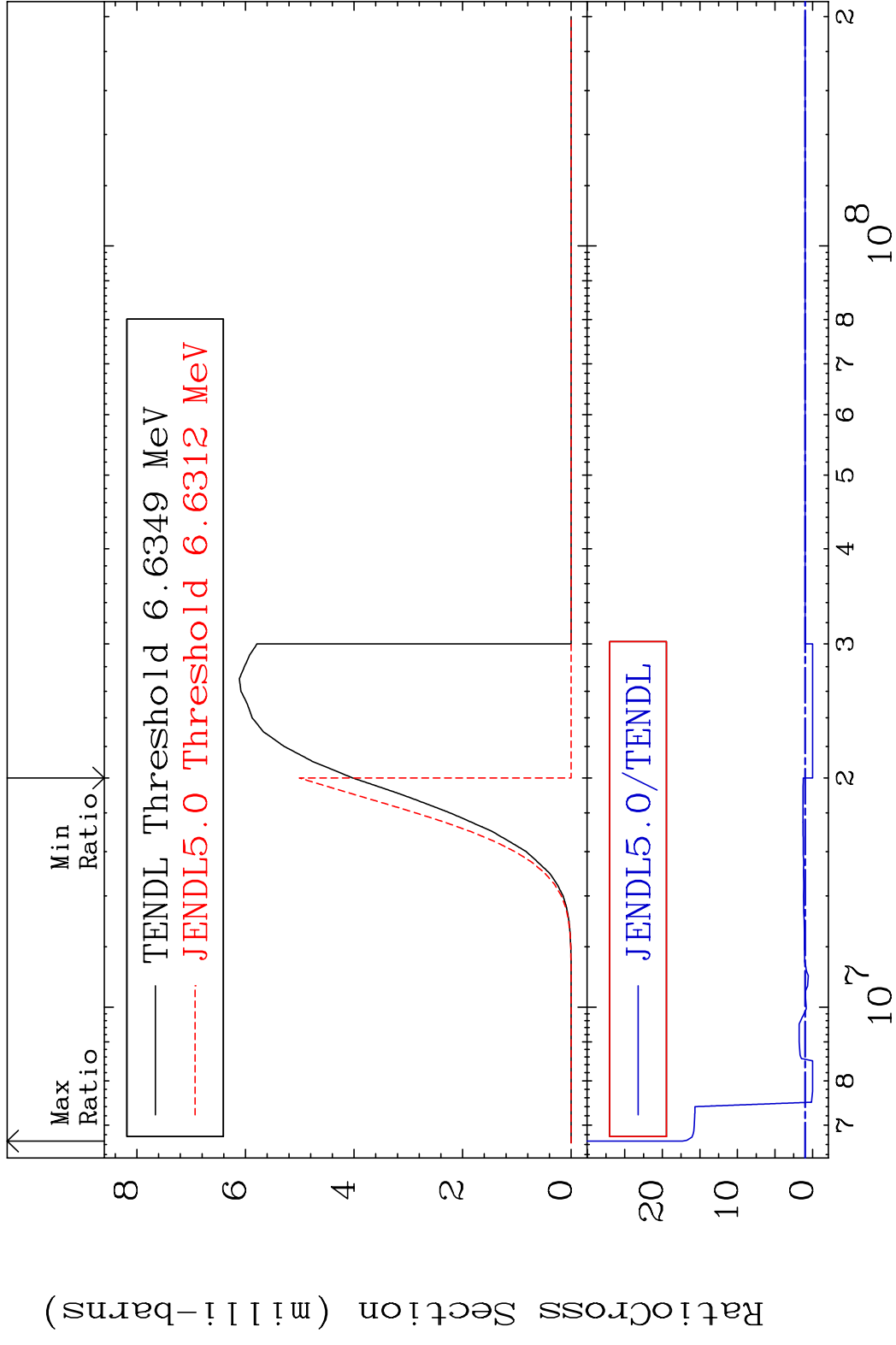
MAT 5061 (n, n') p:49-In-123g 50-Sn-124  
 Radionuclide Production Cross Section Ratio



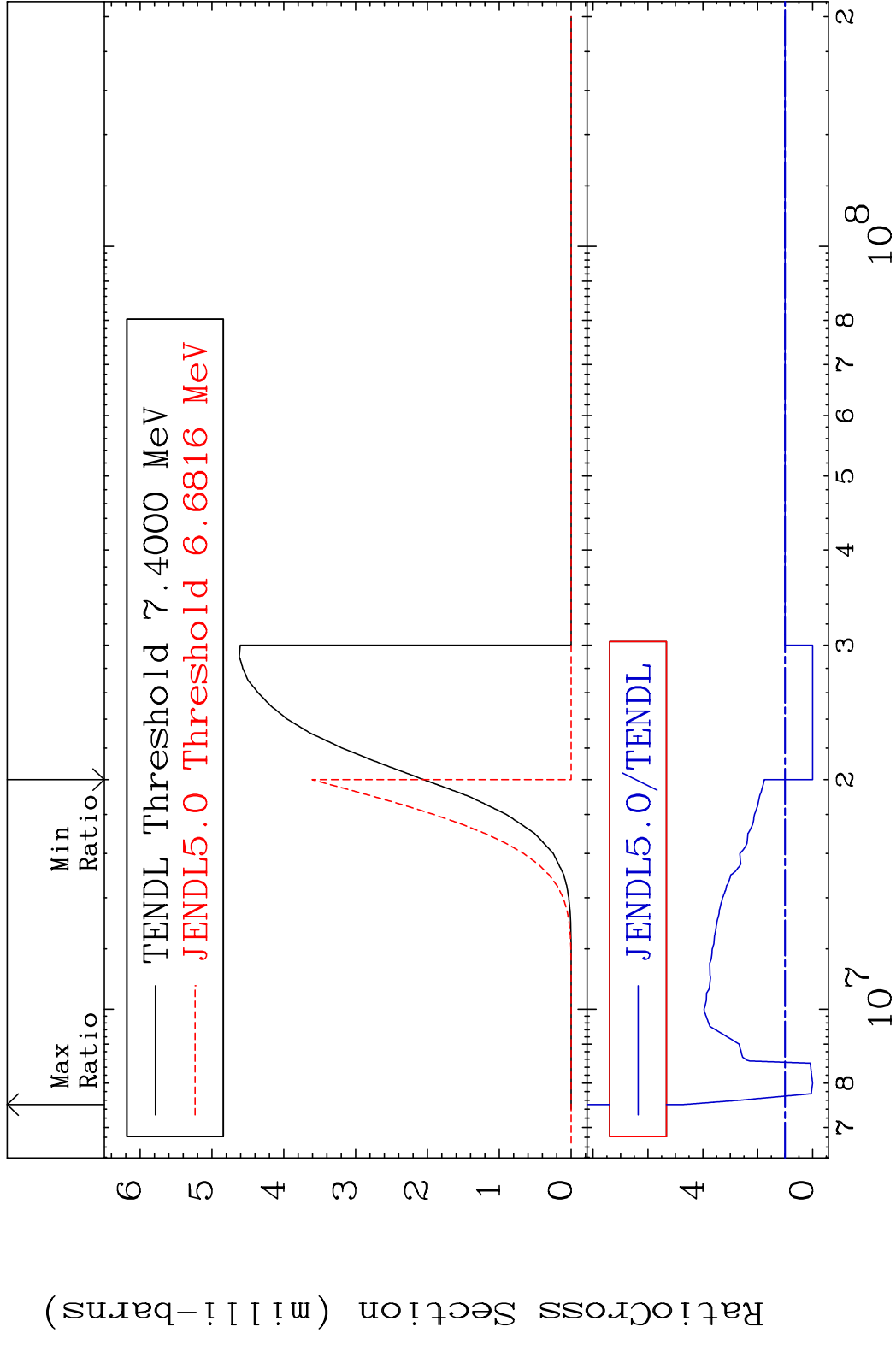




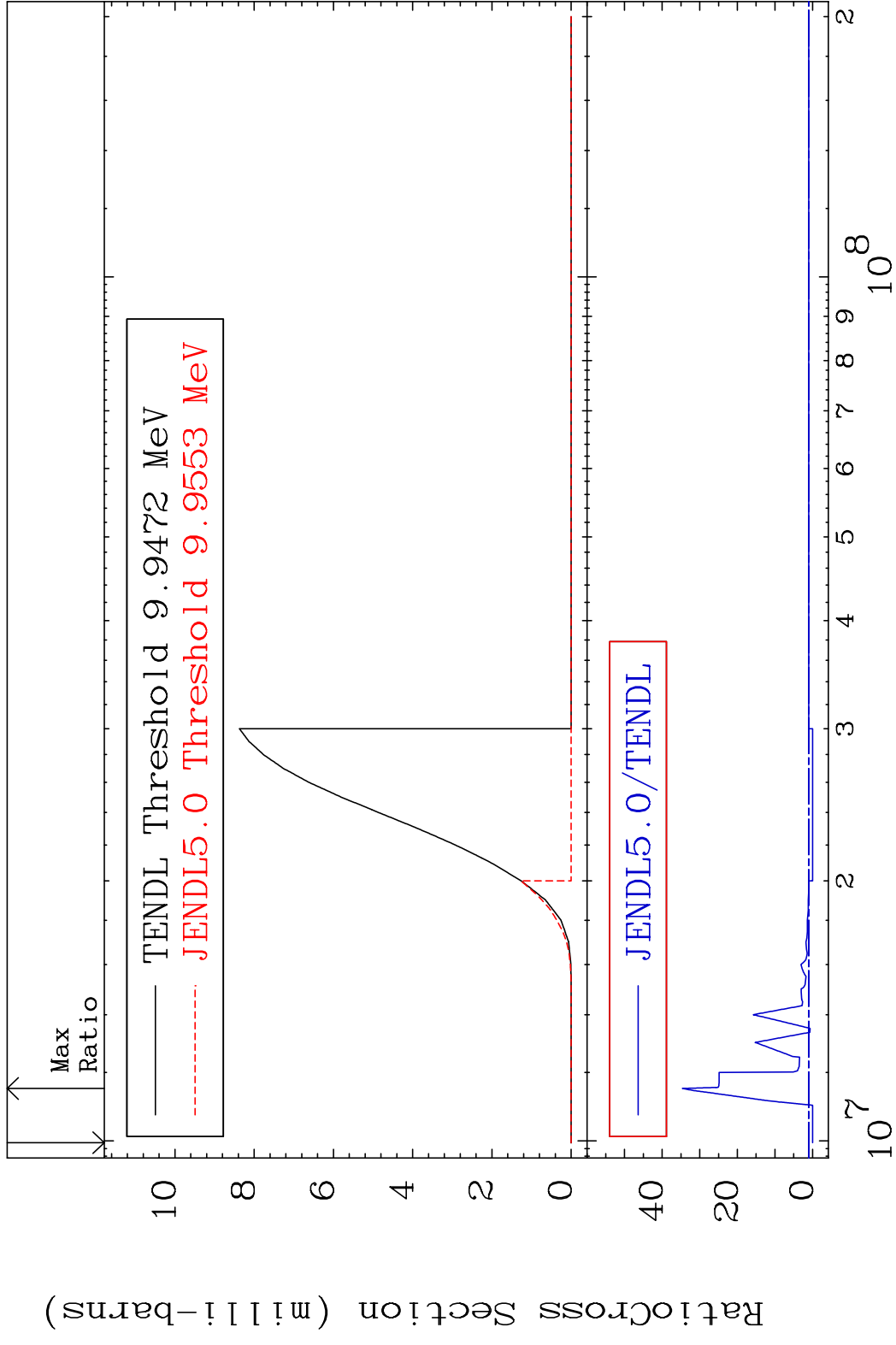
MAT 5061 (n,p):49-In-124g 50-Sn-124  
 Radionuclide Production Cross Section 1633. %



MAT 5061 (n, p): 49-In-124m2 50-Sn-124  
 Radionuclide Production Cross Section 180.0 dth 374.6 %

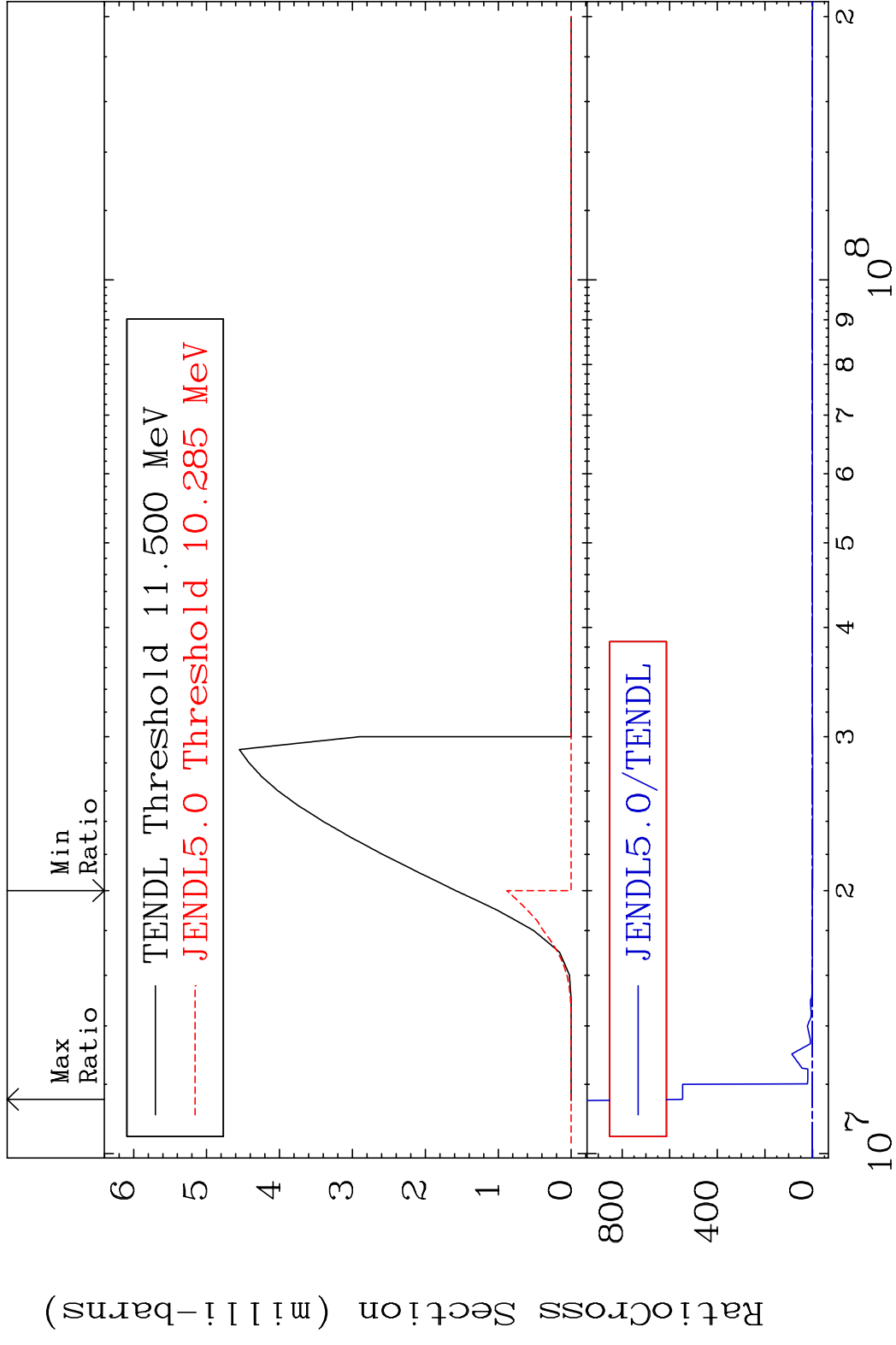


MAT 5061 (n,d):49-In-123g 50-Sn-124  
 Radionuclide Production Cross Section 3363. %



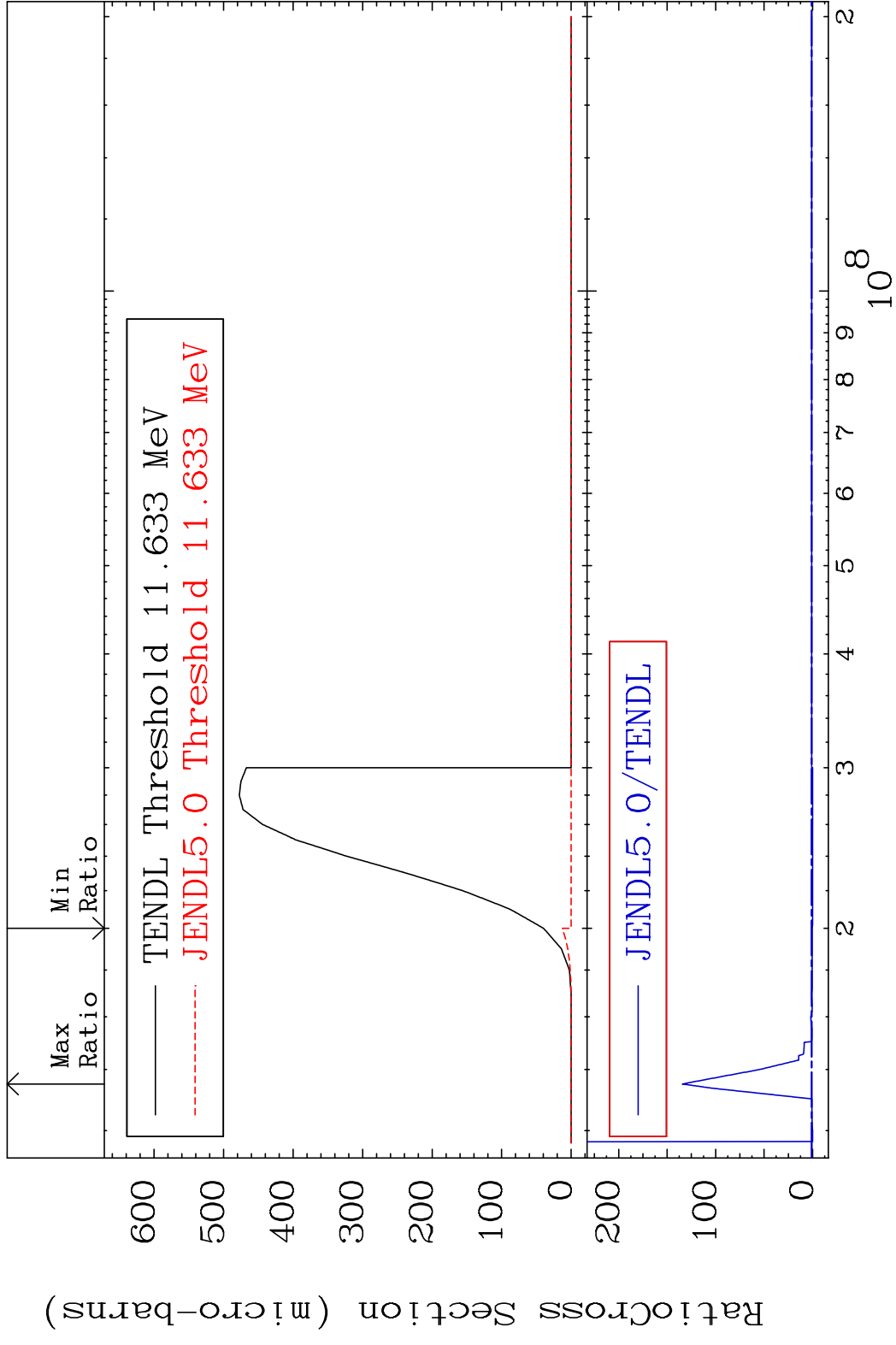
66 Incident Energy (eV) 50-Sn-124

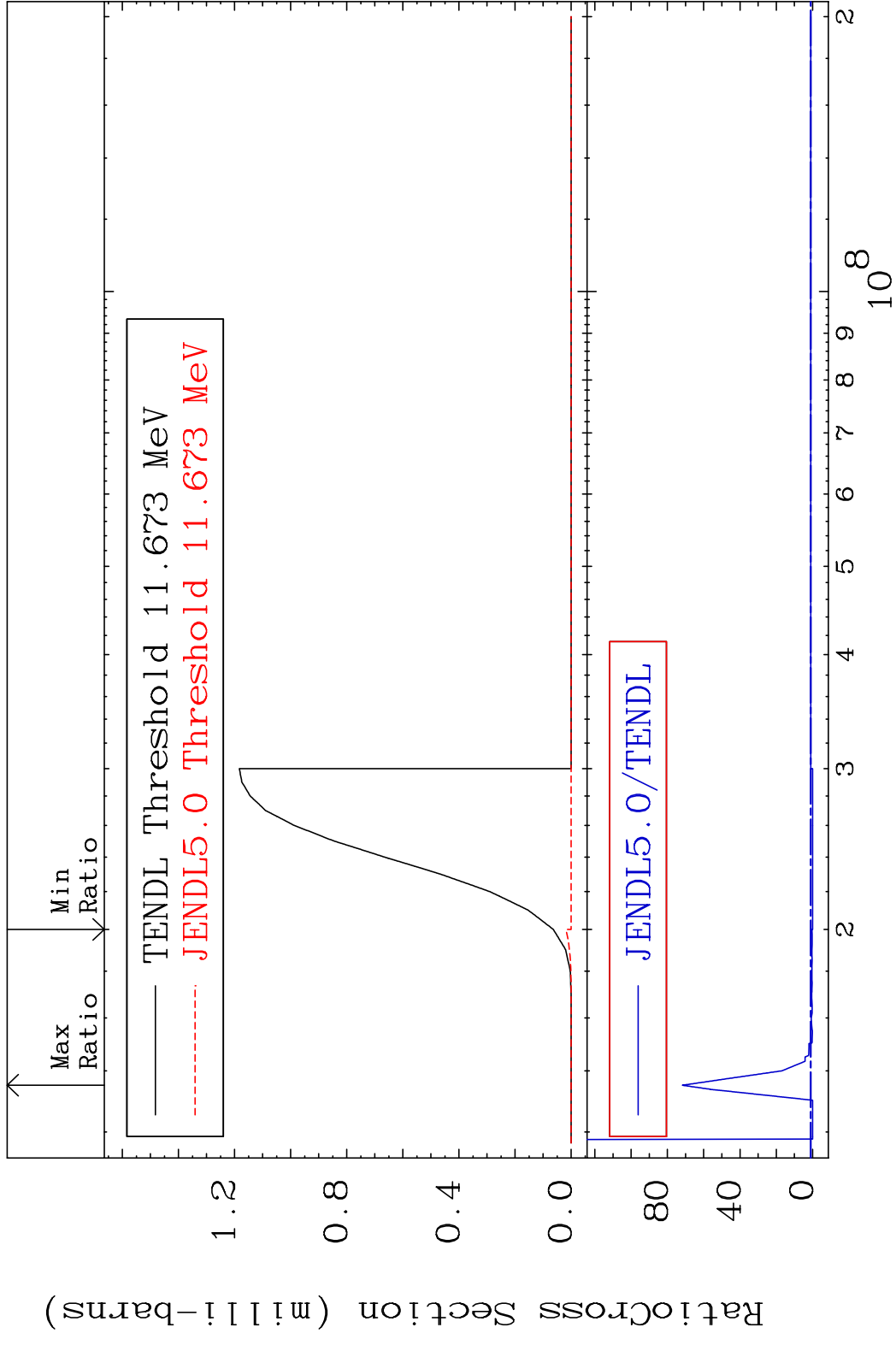
MAT 5061 (n, d): 49-In-123m1 50-Sn-124  
 Radionuclide Production Cross Section to 9999. %



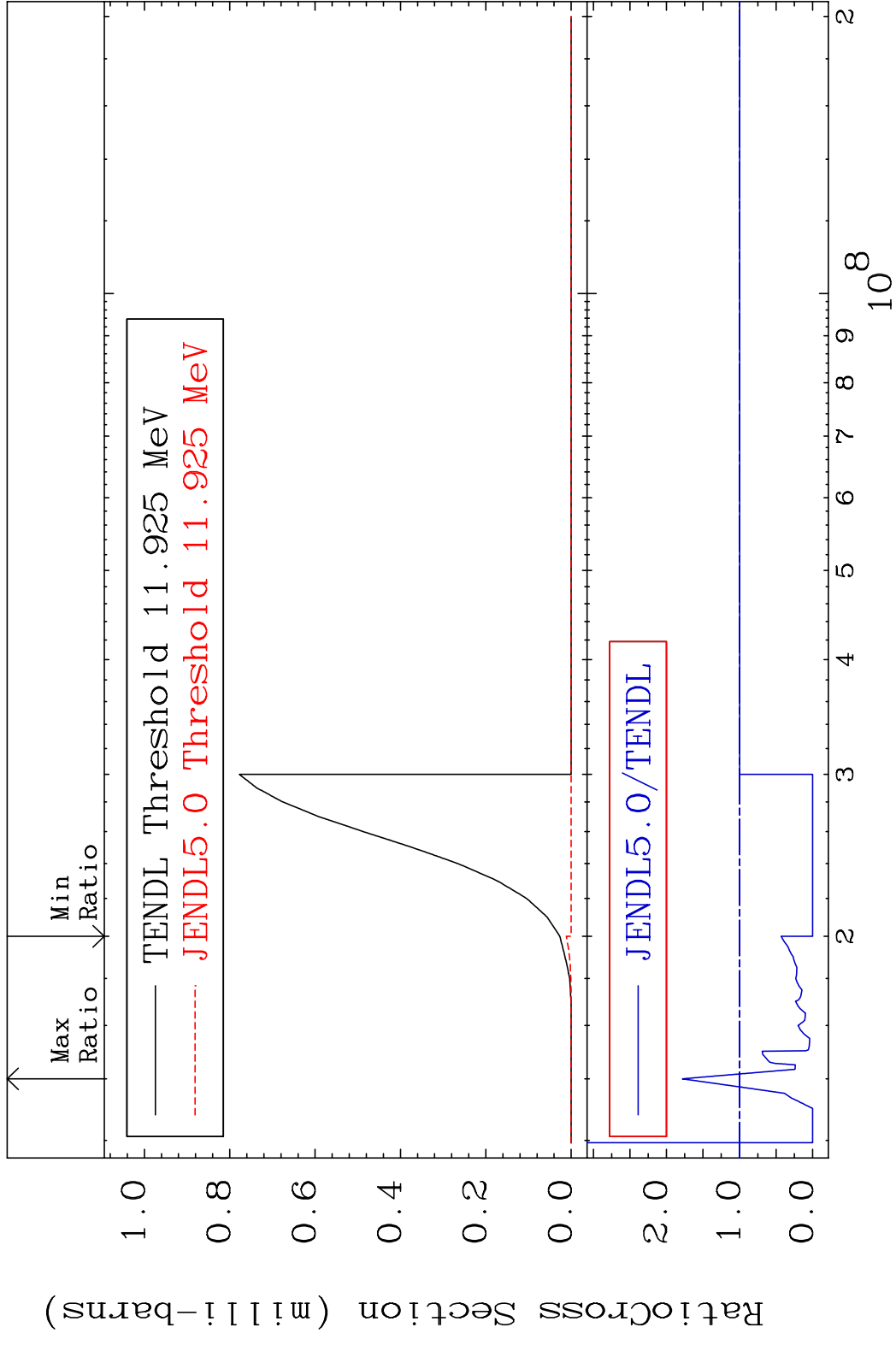
67 Incident Energy (eV) 50-Sn-124

MAT 5061 (n, t): 49-In-122g 50-Sn-124  
 Radionuclide Production Cross Section Ratio 9999. %

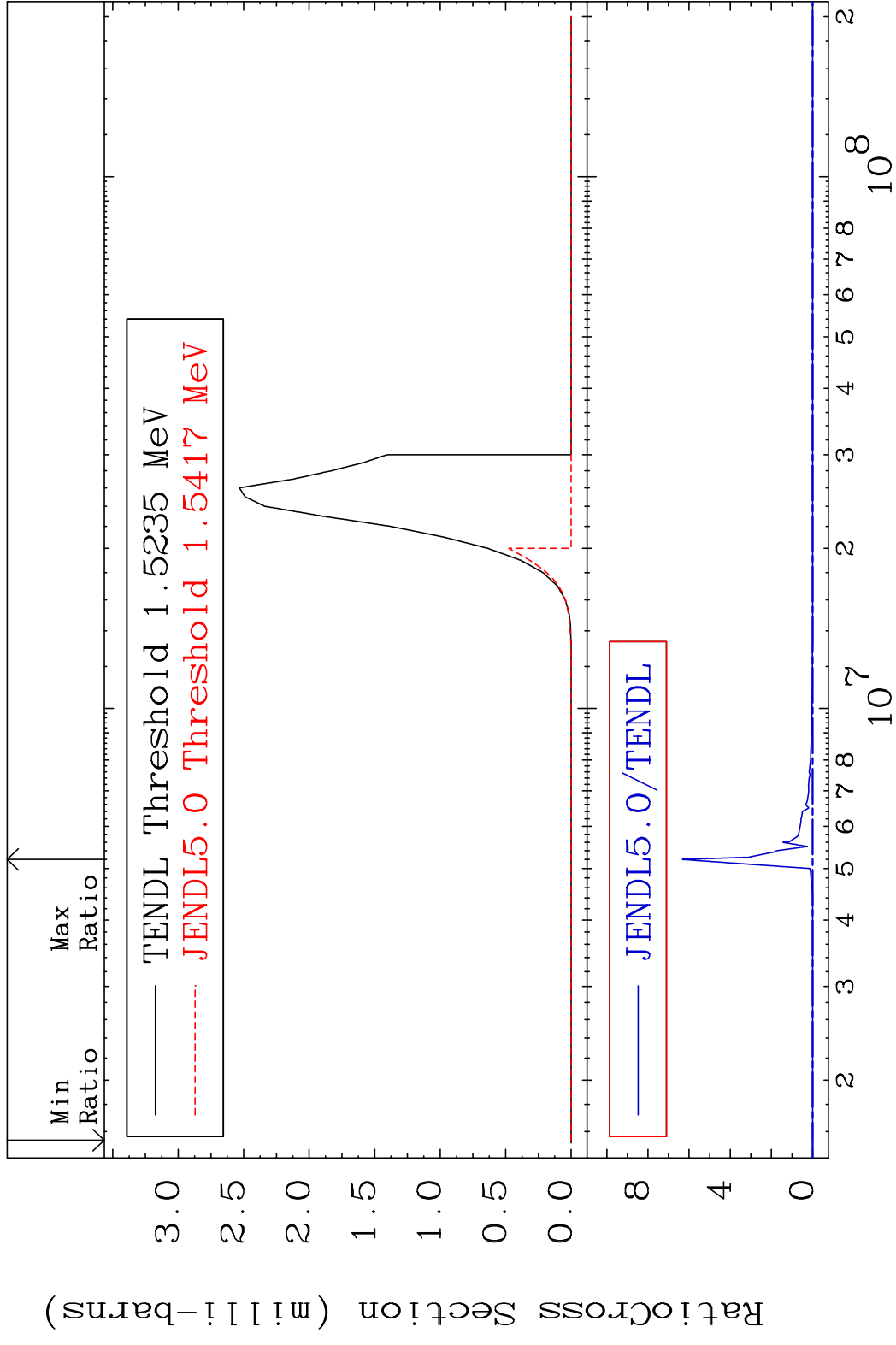




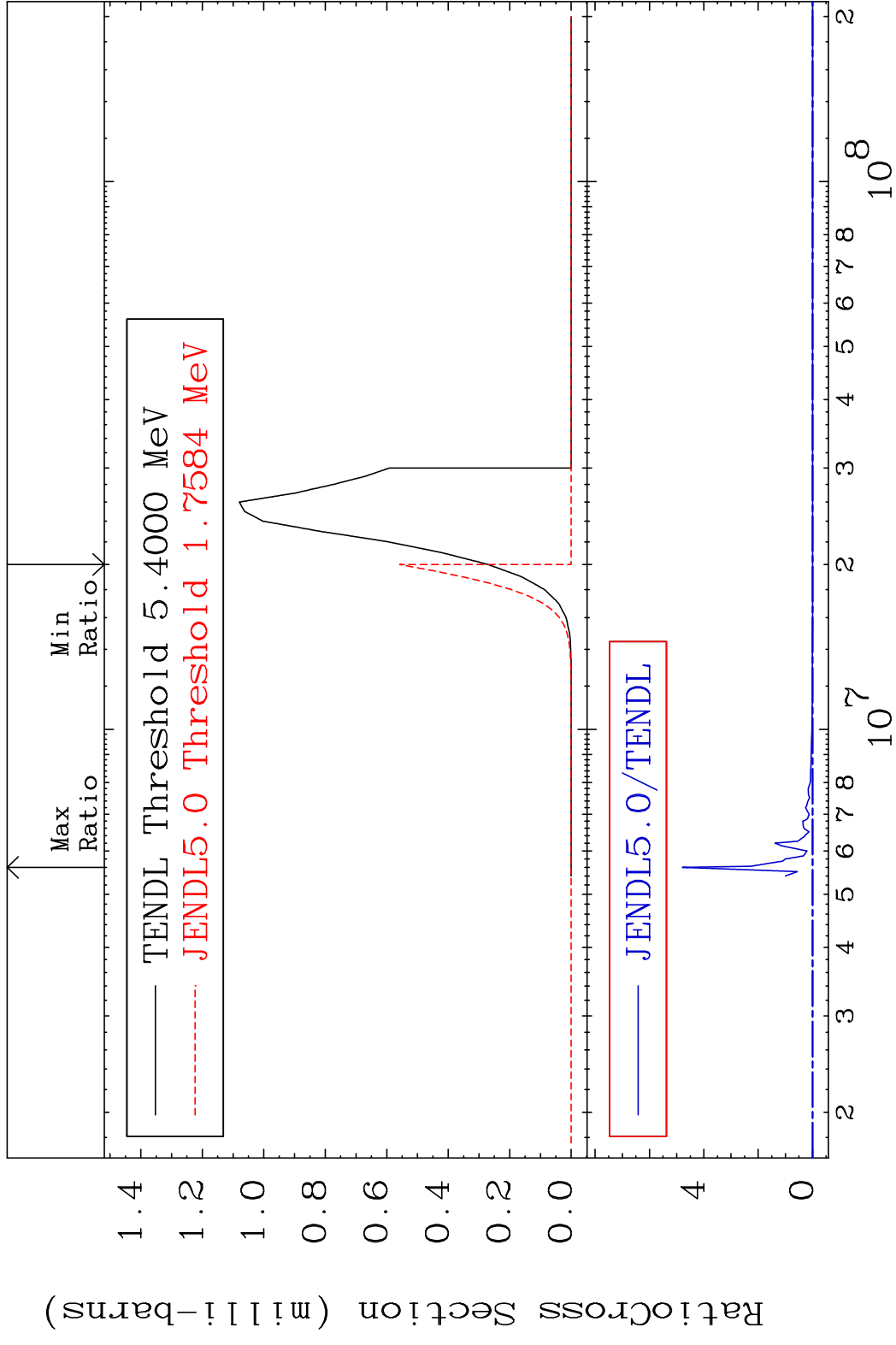
MAT 5061 (n, t):49-In-122m5 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 78.29 %



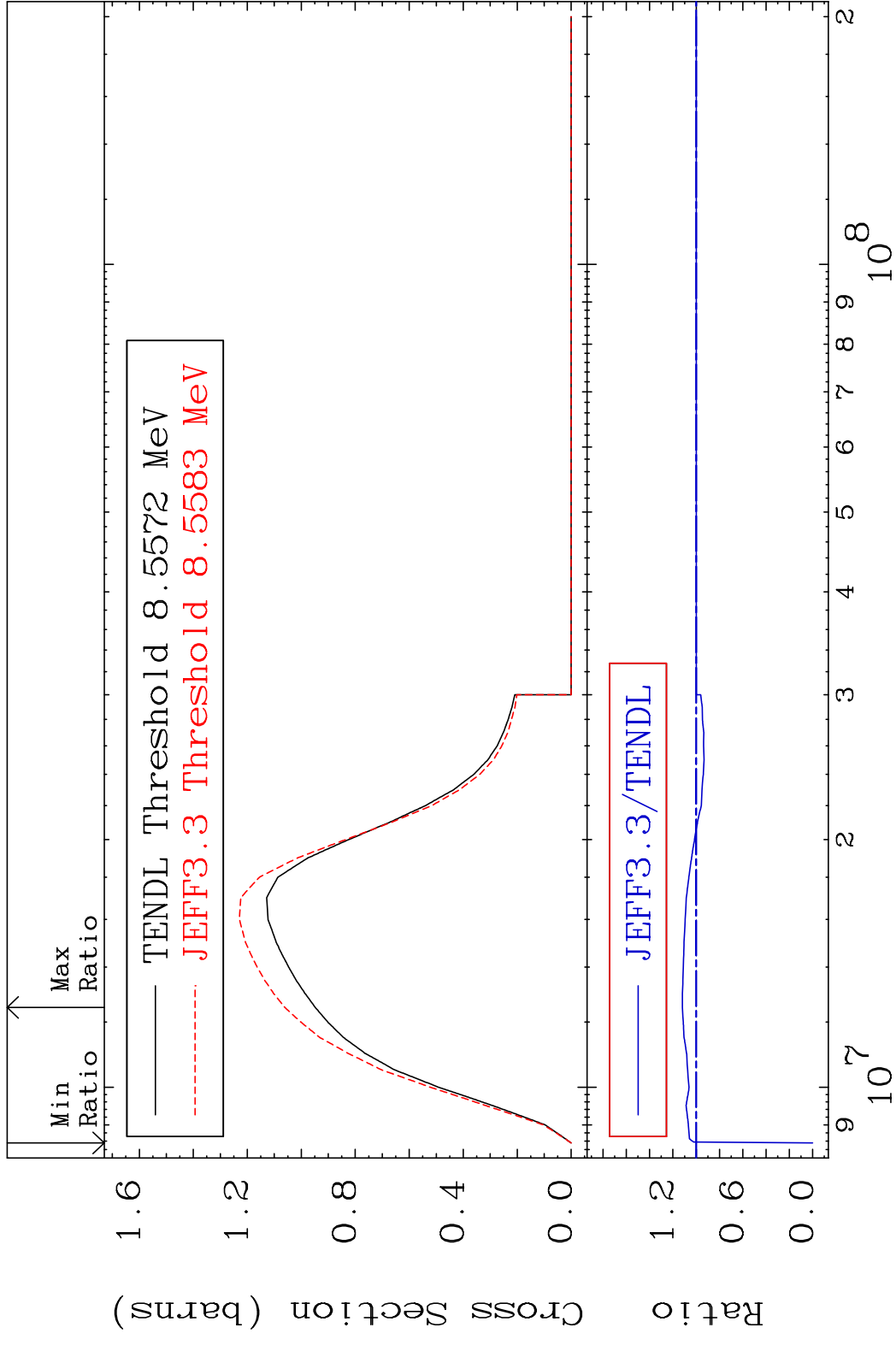
MAT 5061 (n,α):48-Cd-121g 50-Sn-124  
 Radionuclide Production Cross Section 100.00 dth 9999. %



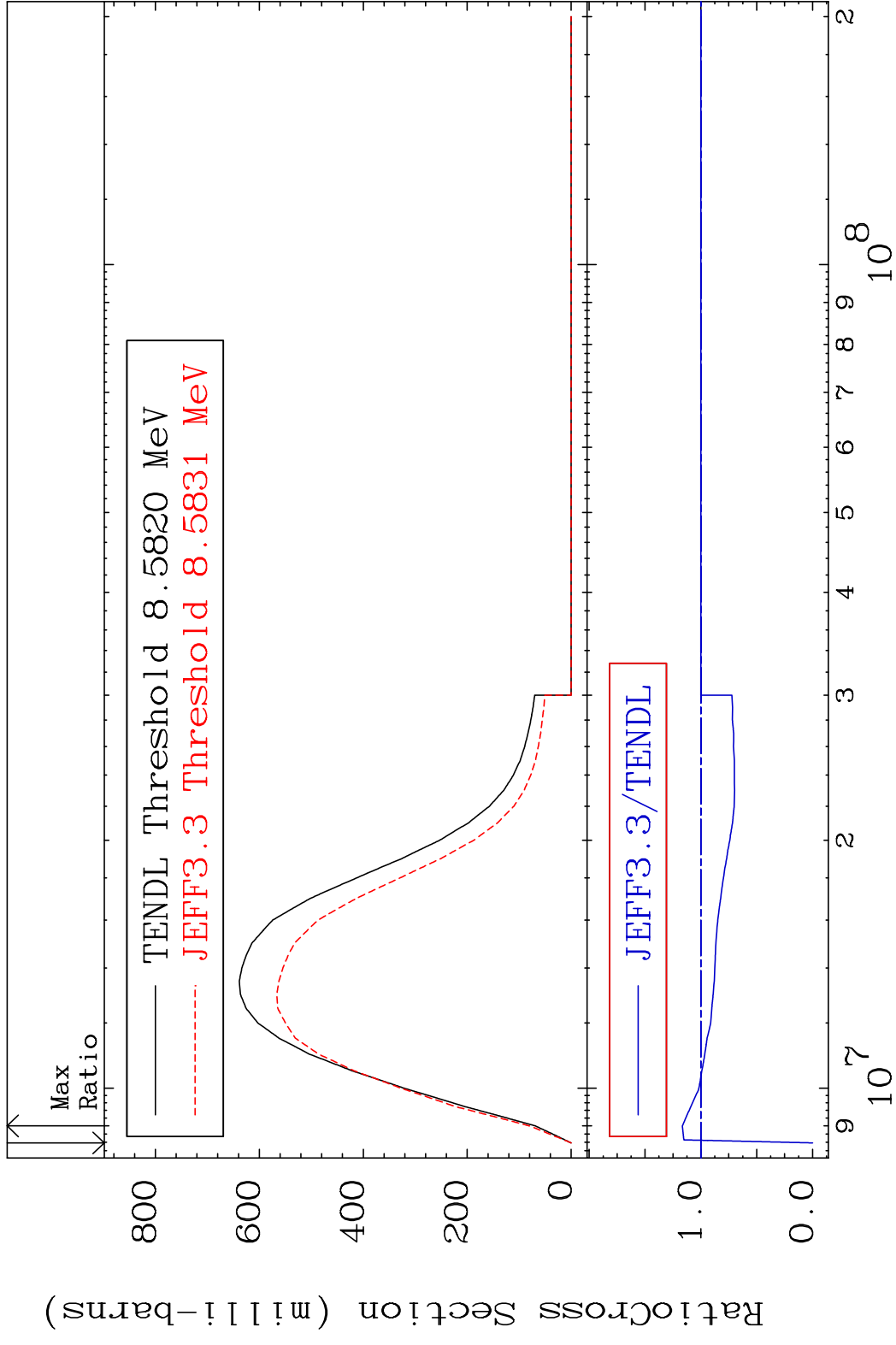




MAT 5061 (n,2n):50-Sn-123g 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 11.90 %

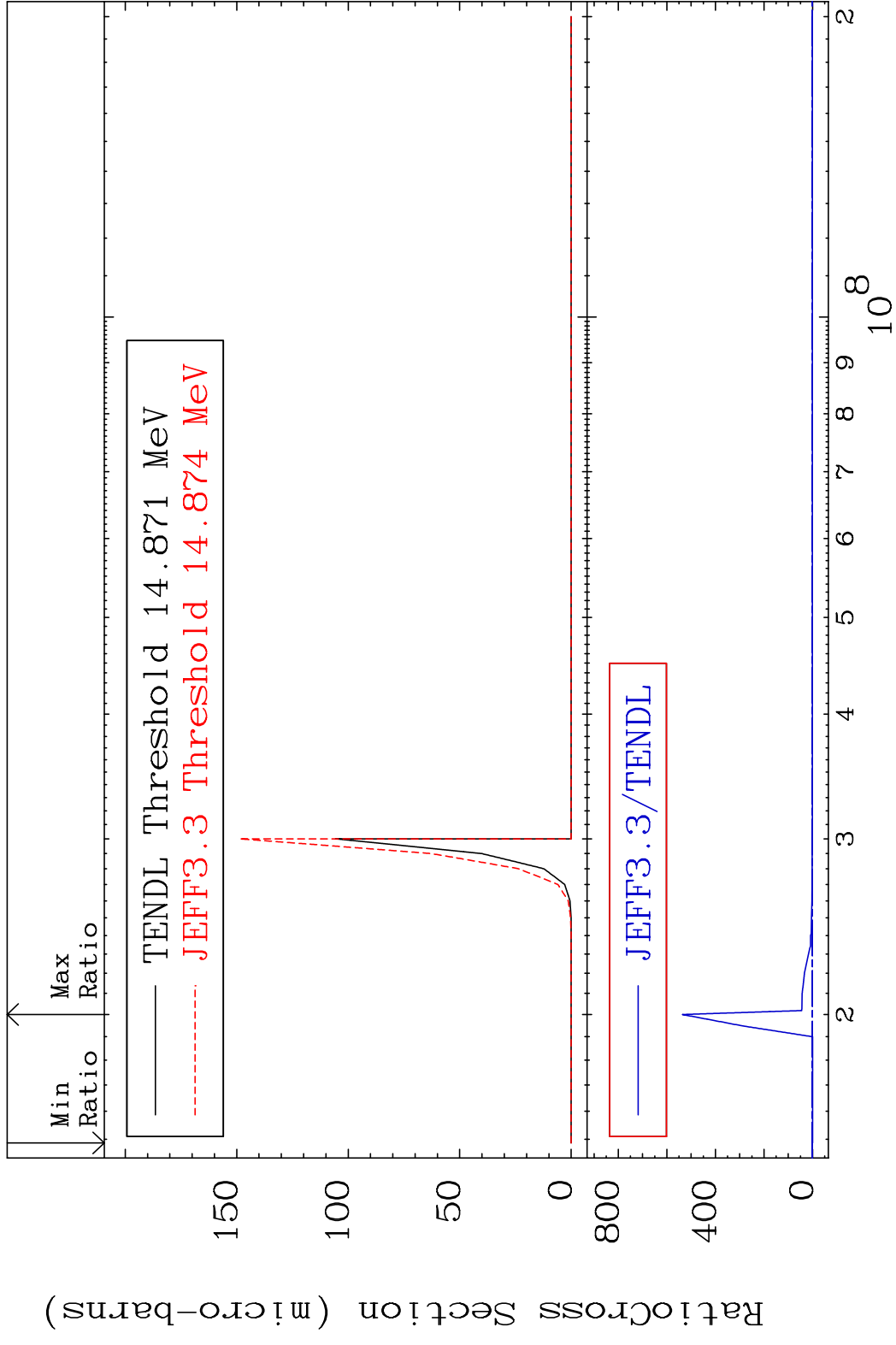


MAT 5061 (n,2n):50-Sn-123m1 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 16.58 %

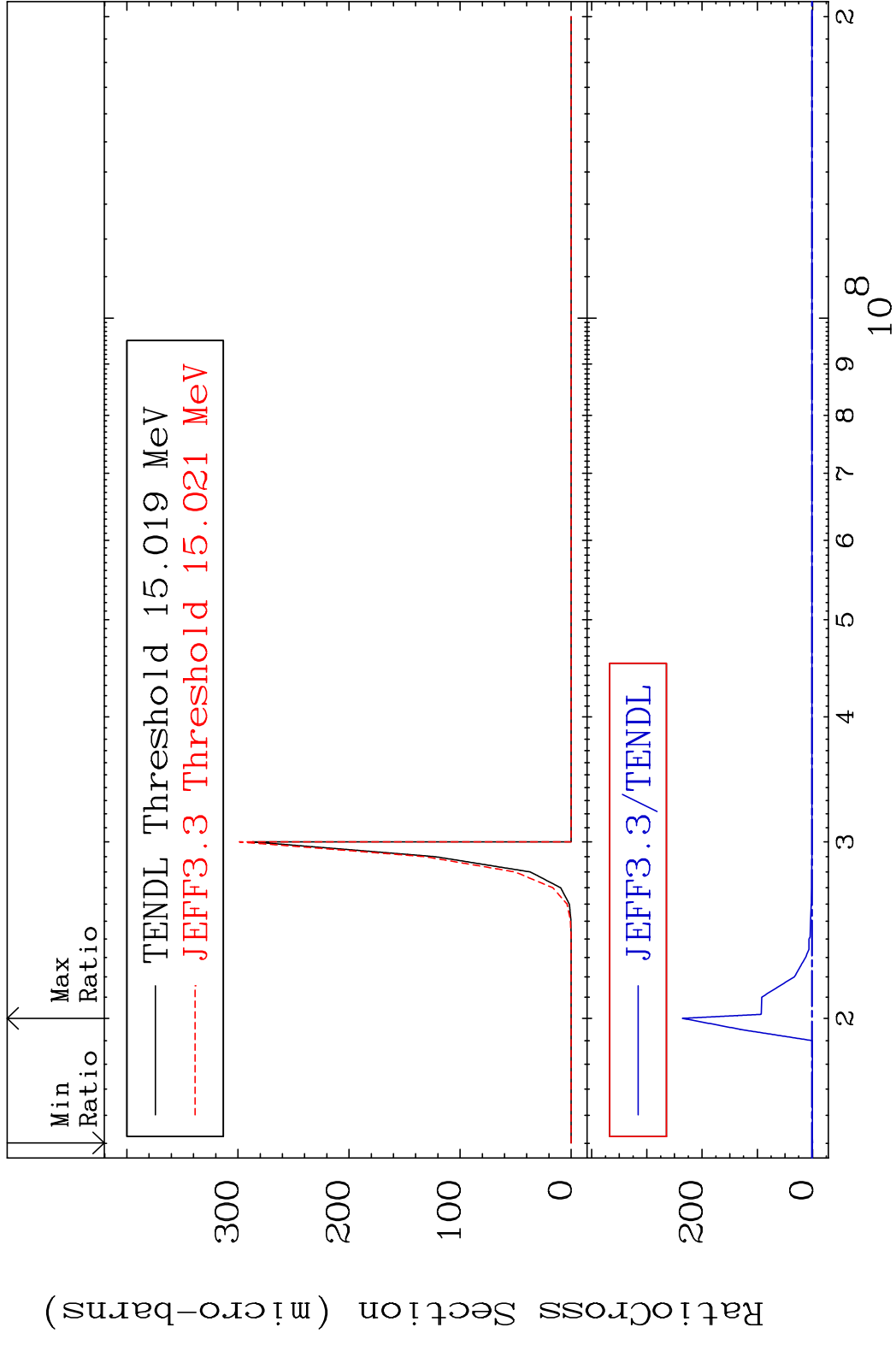


74 Incident Energy (eV) 50-Sn-124

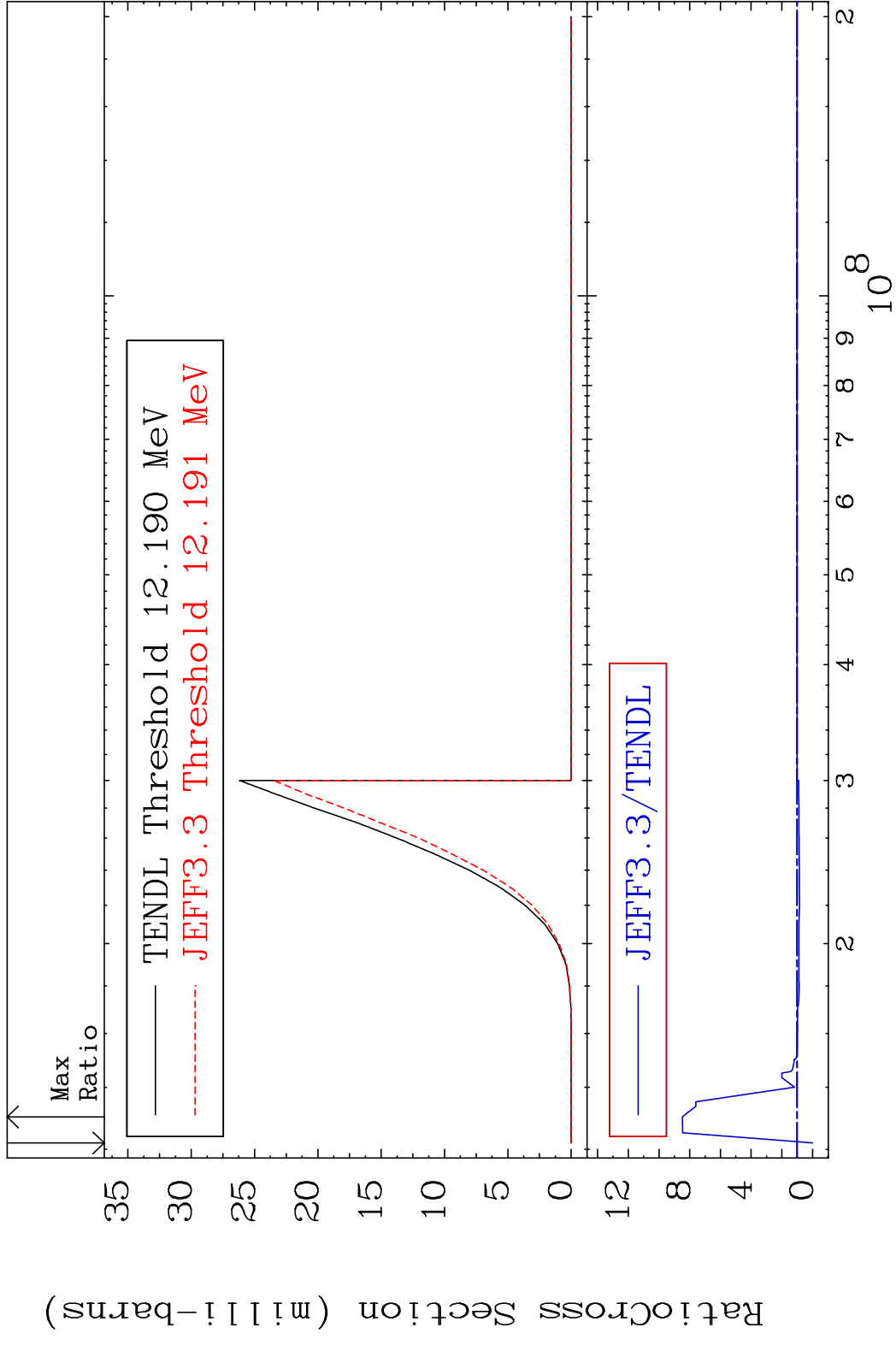
MAT 5061 (n,2n)  $\alpha$ :48-Cd-119g 50-Sn-124  
 Radionuclide Production Cross Section (%) 100.00 to 9999.00

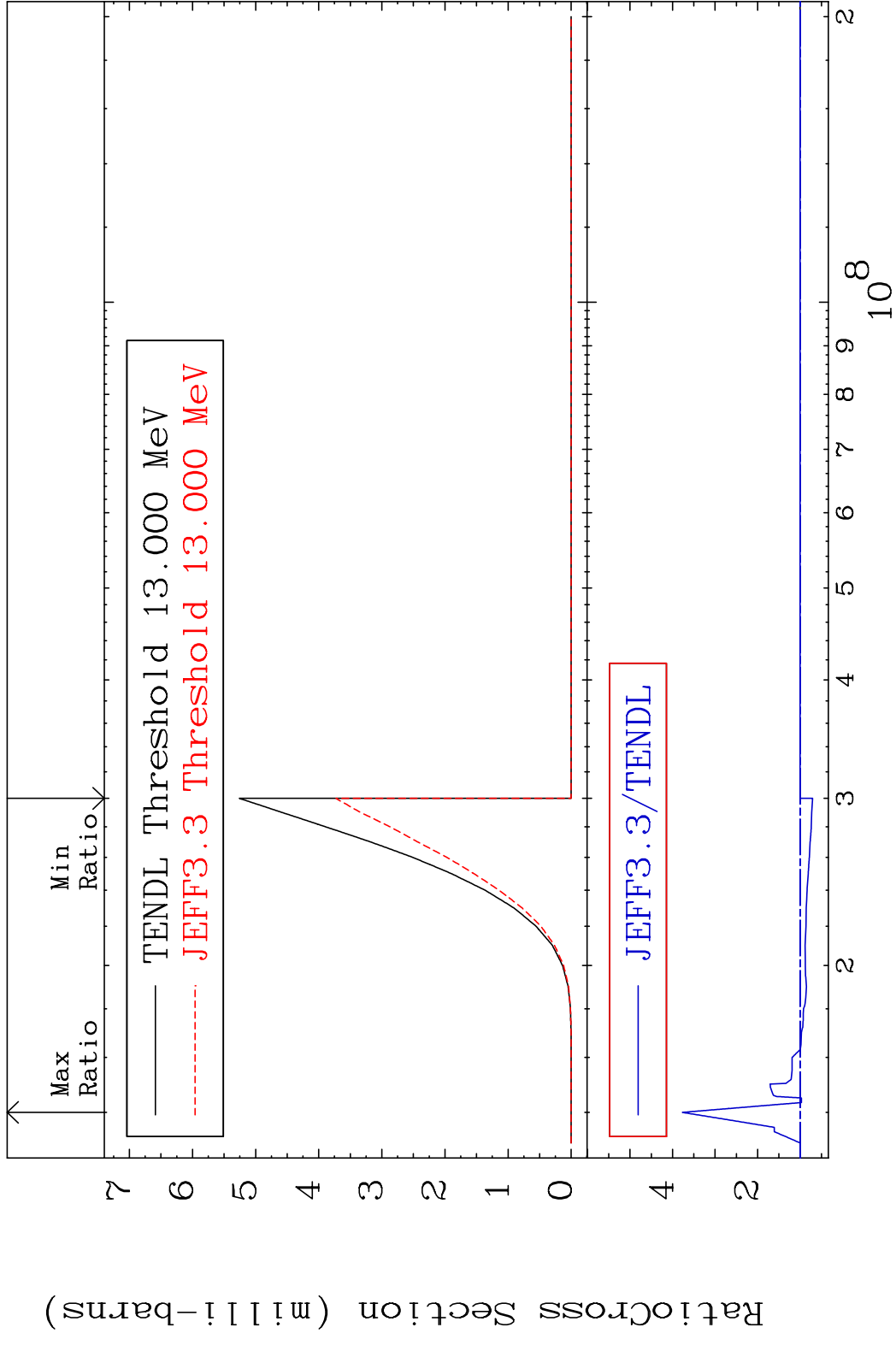


MAT 5061 (n,2n)  $\alpha$ :48-Cd-119m2 50-Sn-124  
 Radionuclide Production Cross Section to 9999. %

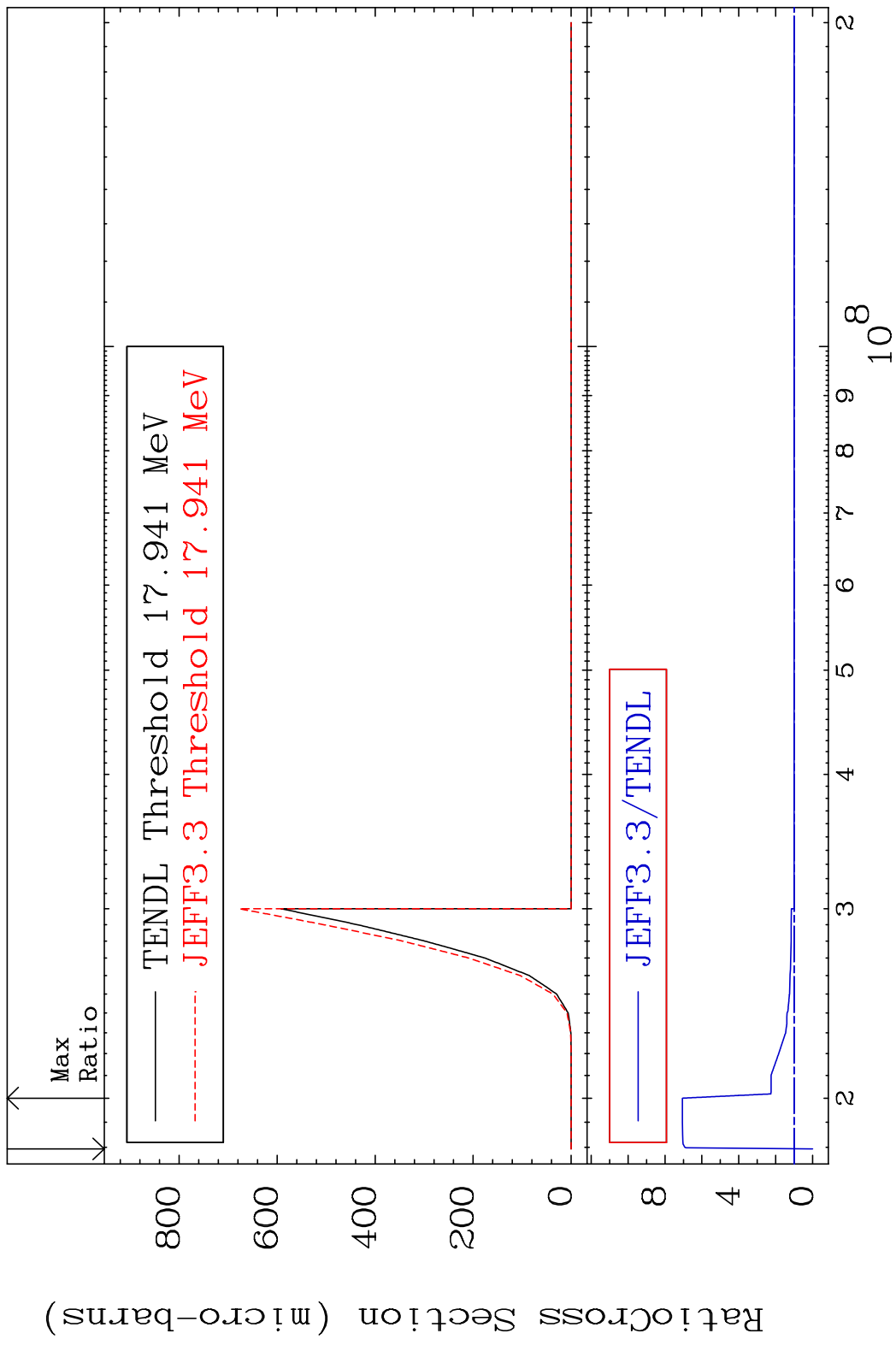


MAT 5061 (n, n') p:49-In-123g 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 748.1 %



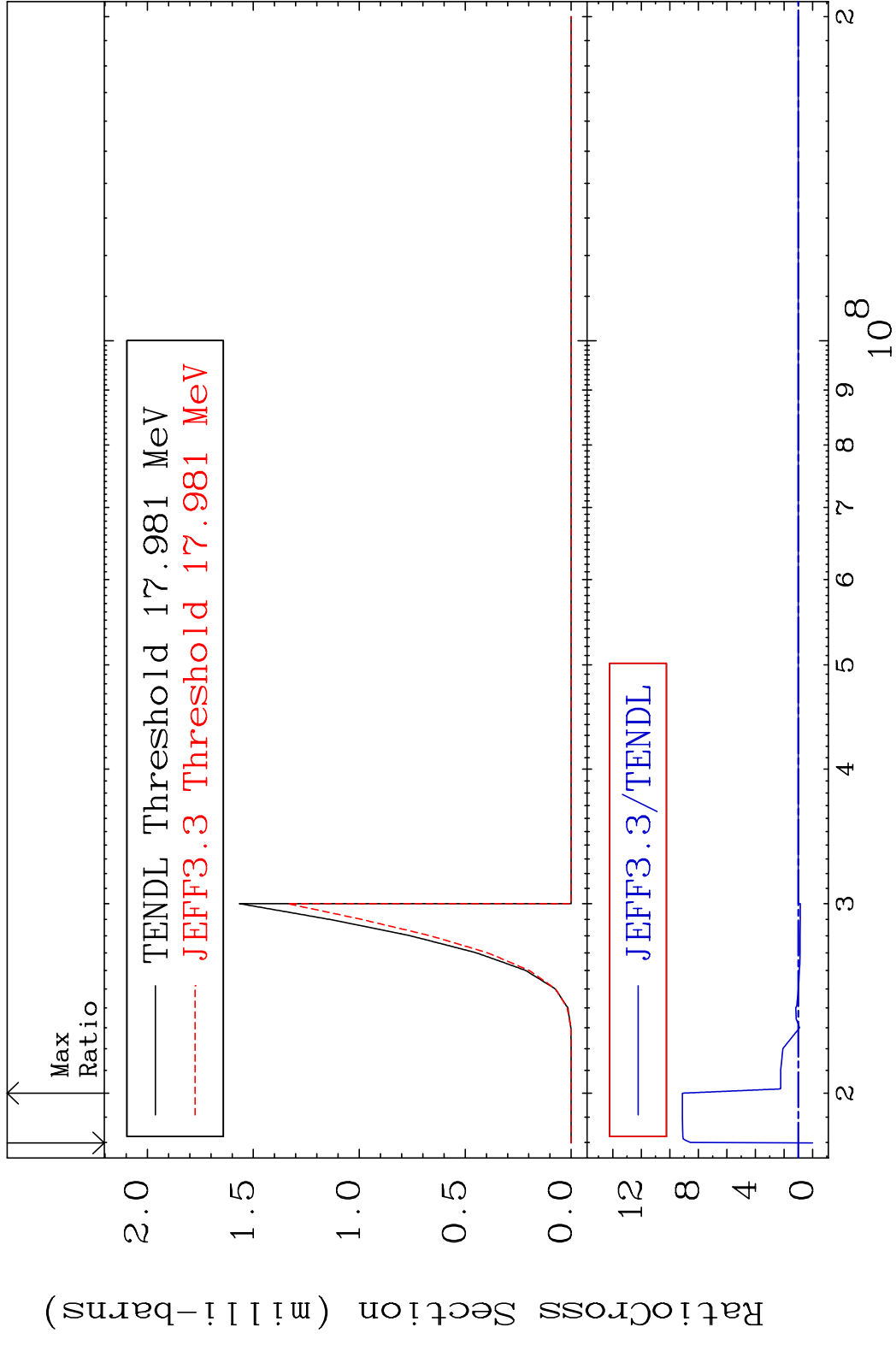


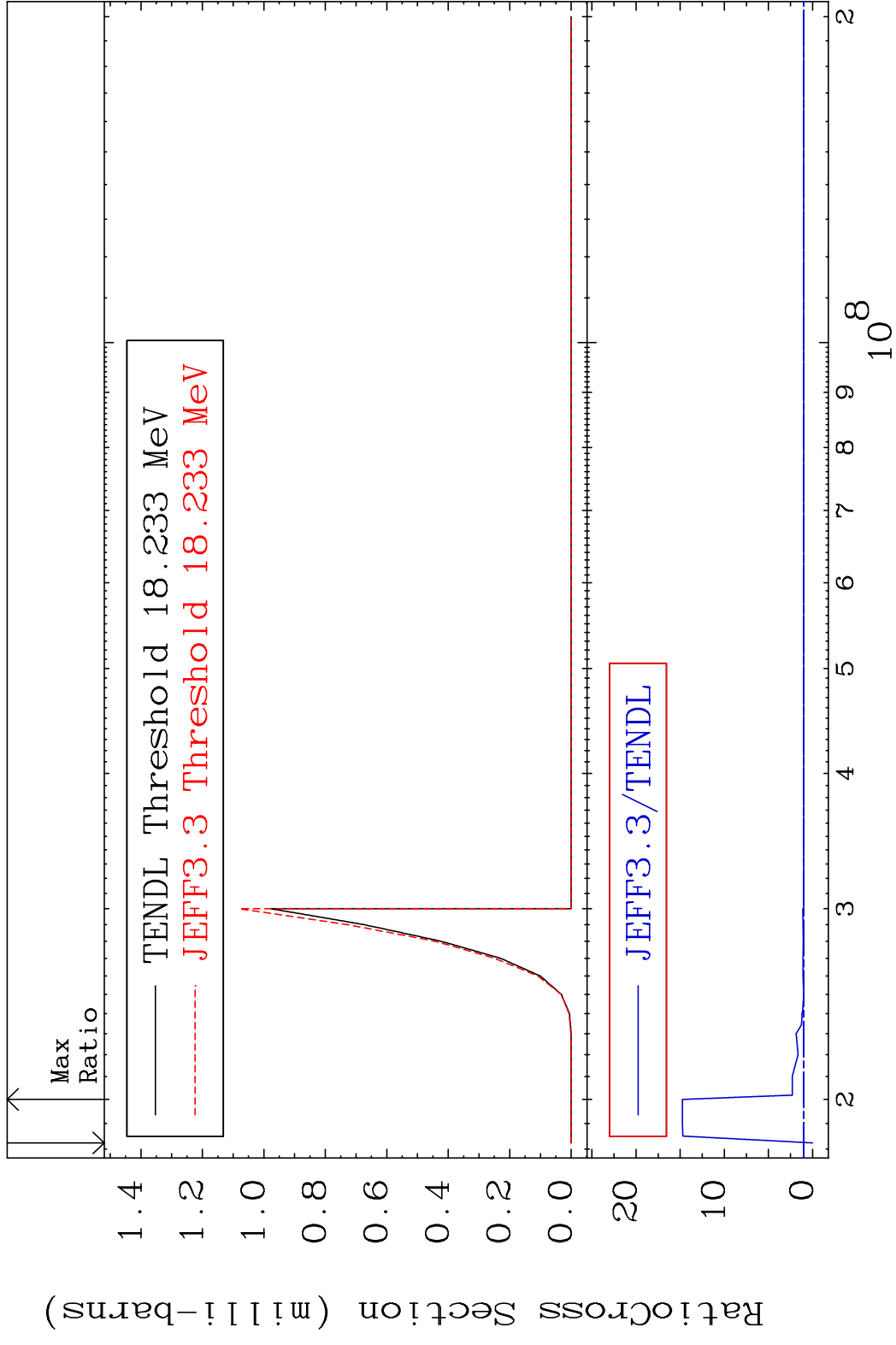
MAT 5061 (n, n') d:49-In-122g 50-Sn-124  
 Radionuclide Production Cross Section 180.0 d to 605.9 %



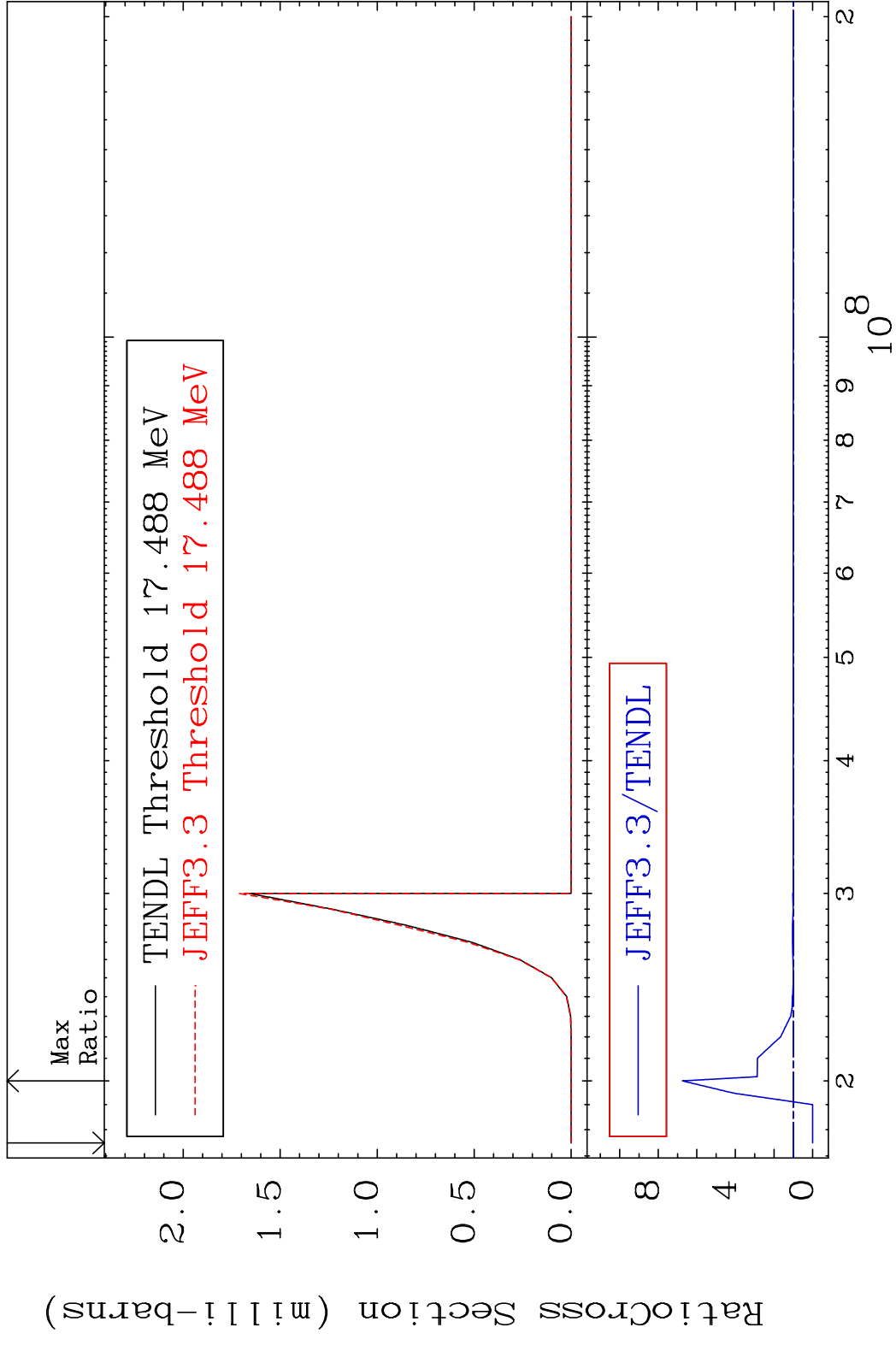


MAT 5061 (n, n') d:49-In-122m1 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 812.4 %

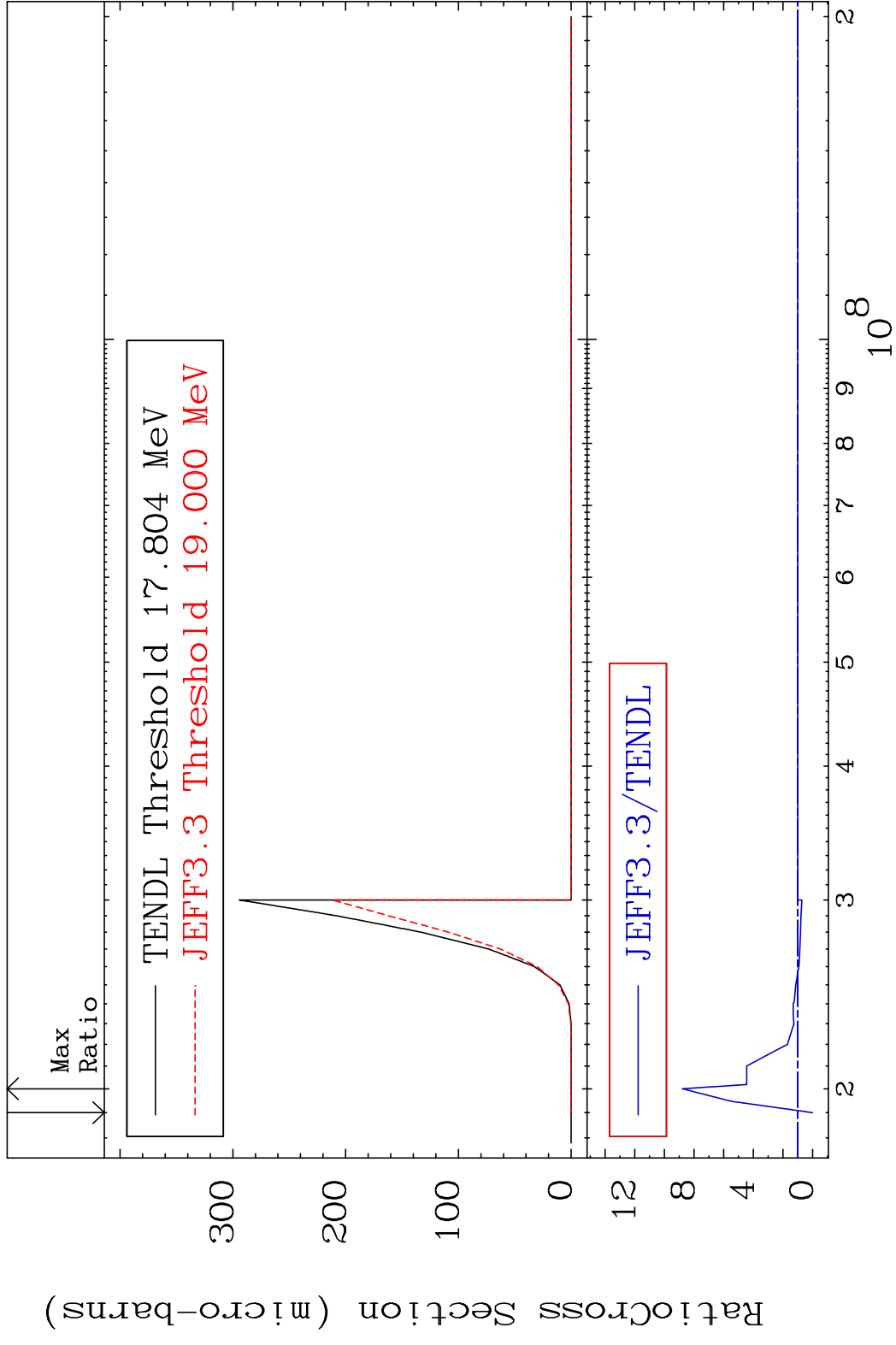




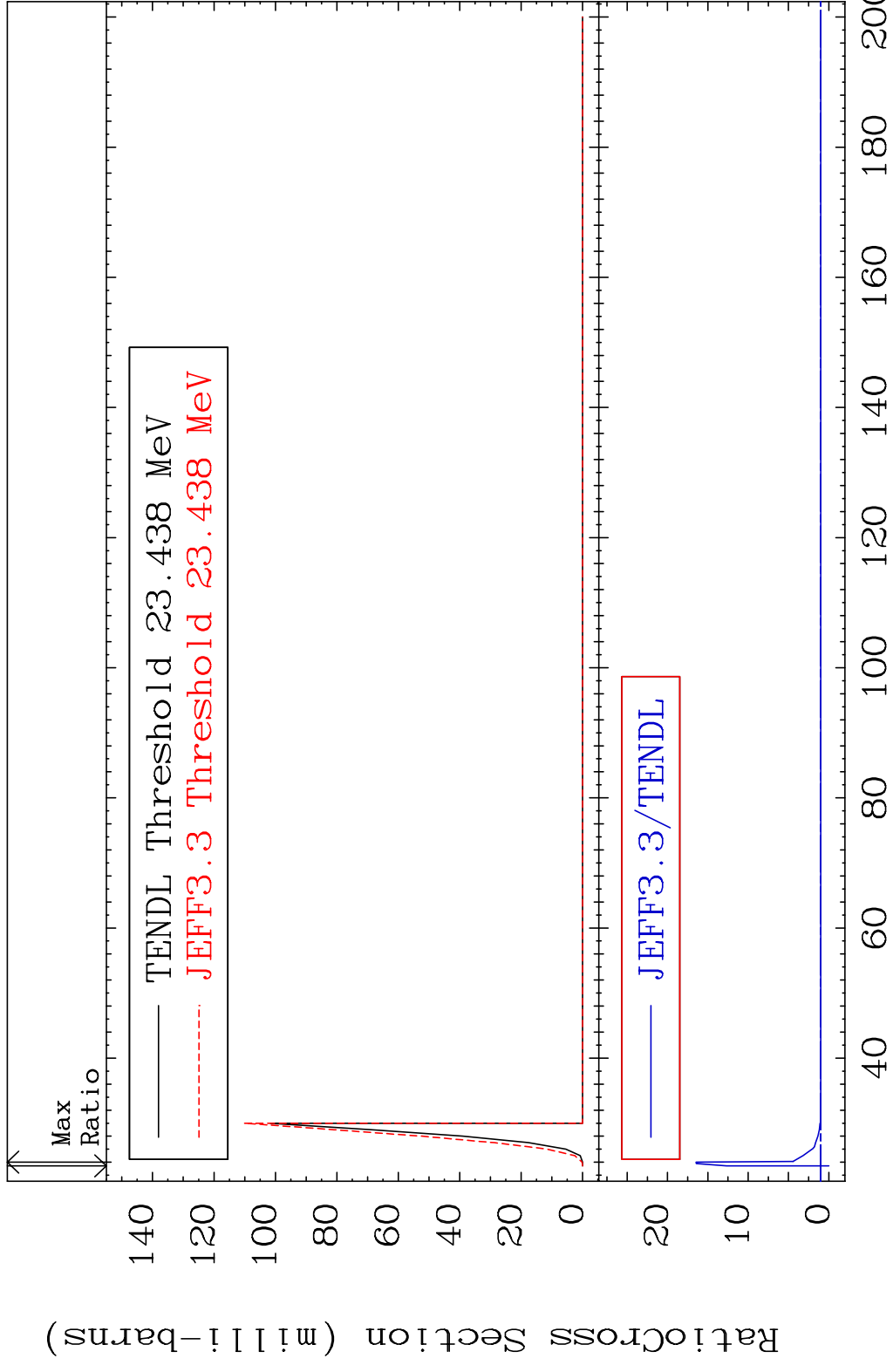
MAT 5061 (n, n') t:49-In-121g 50-Sn-124  
 Radionuclide Production Cross Section 180.0 dth 575.0 %



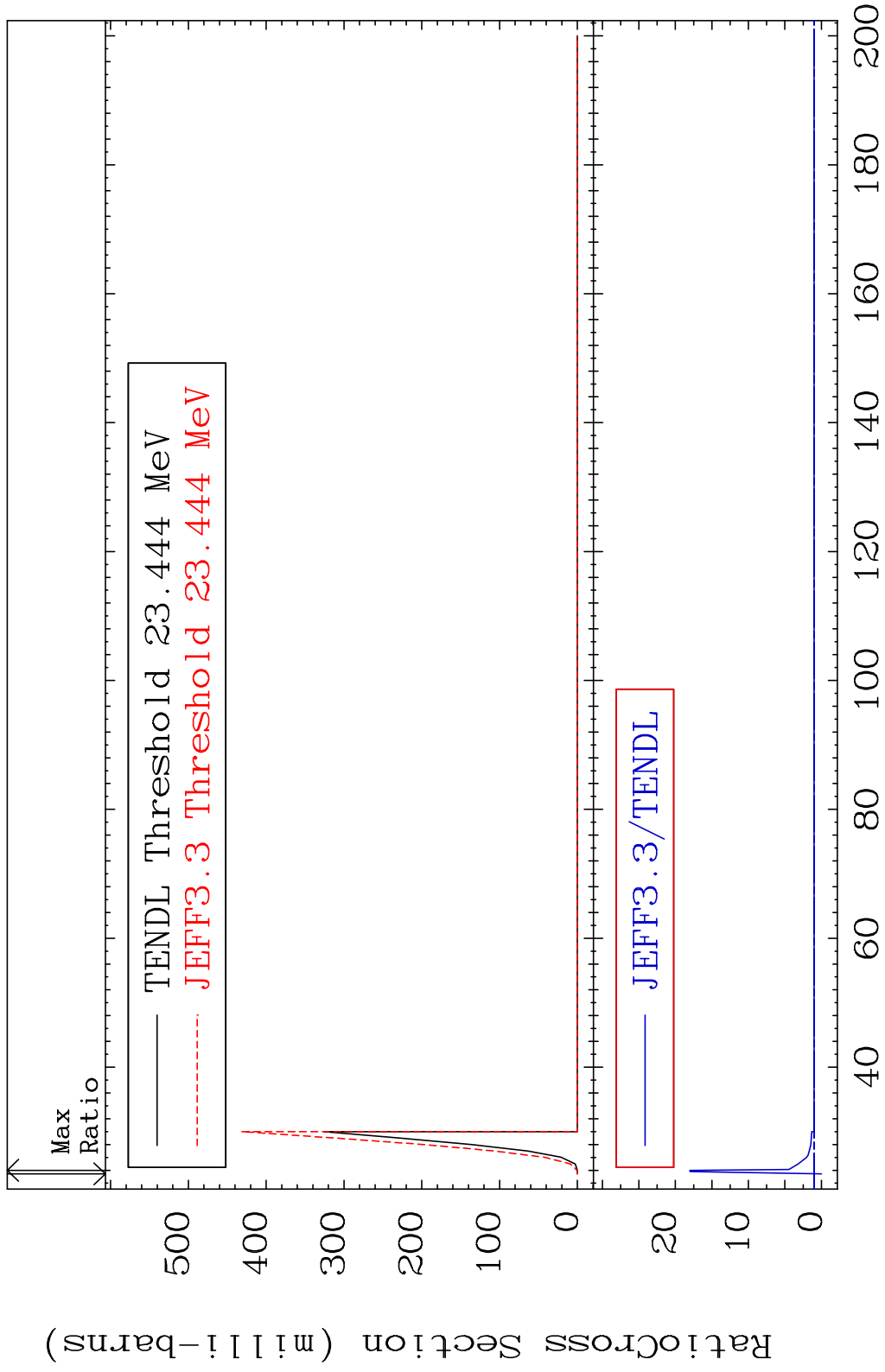
MAT 5061 (n, n') t:49-In-121m1 50-Sn-124  
 Radionuclide Production Cross Section 180.0 dth 778.9 %



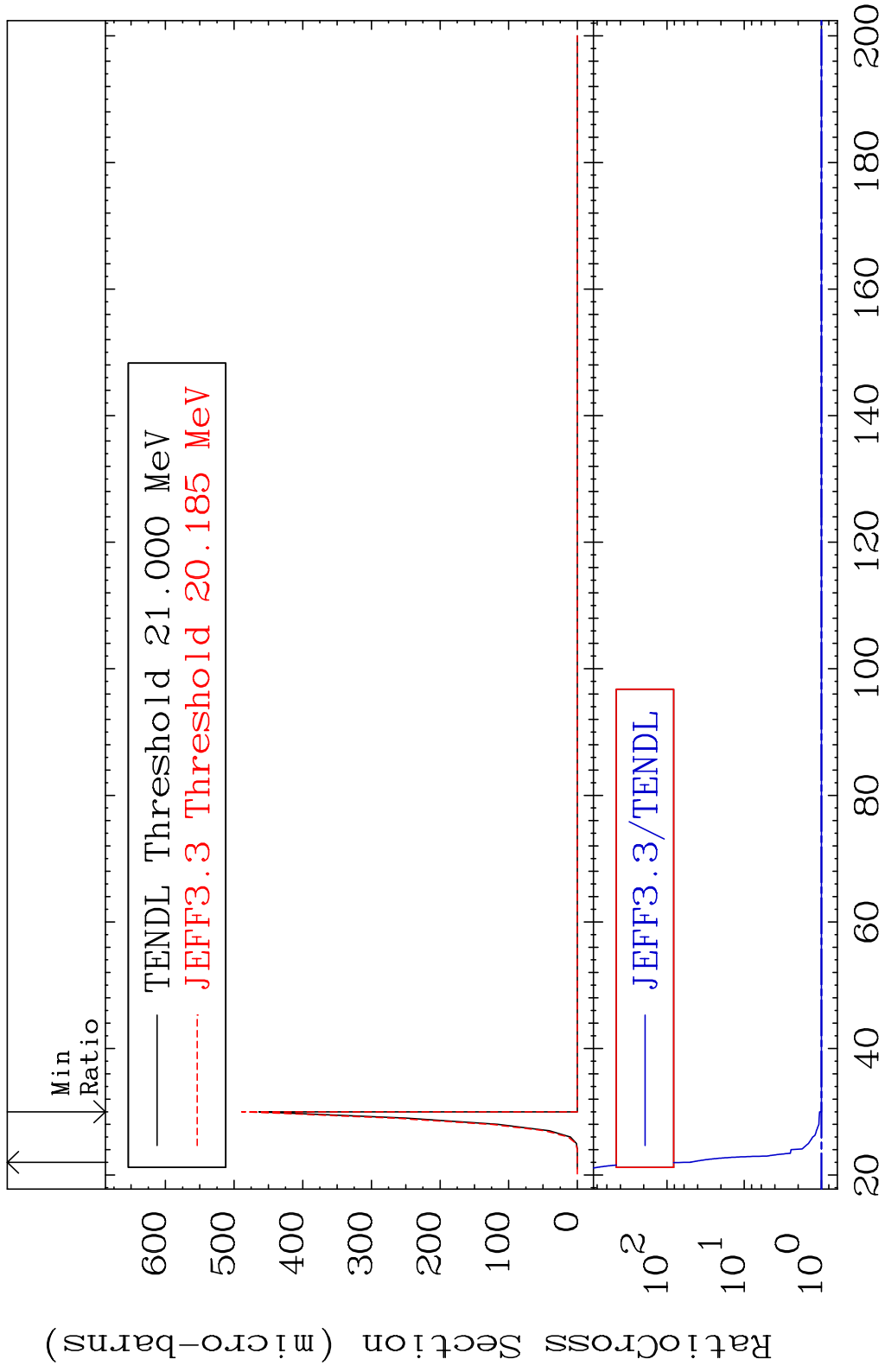
MAT 5061 (n,4n):50-Sn-121g 50-Sn-124  
 Radionuclide Production Cross Section 1547. %

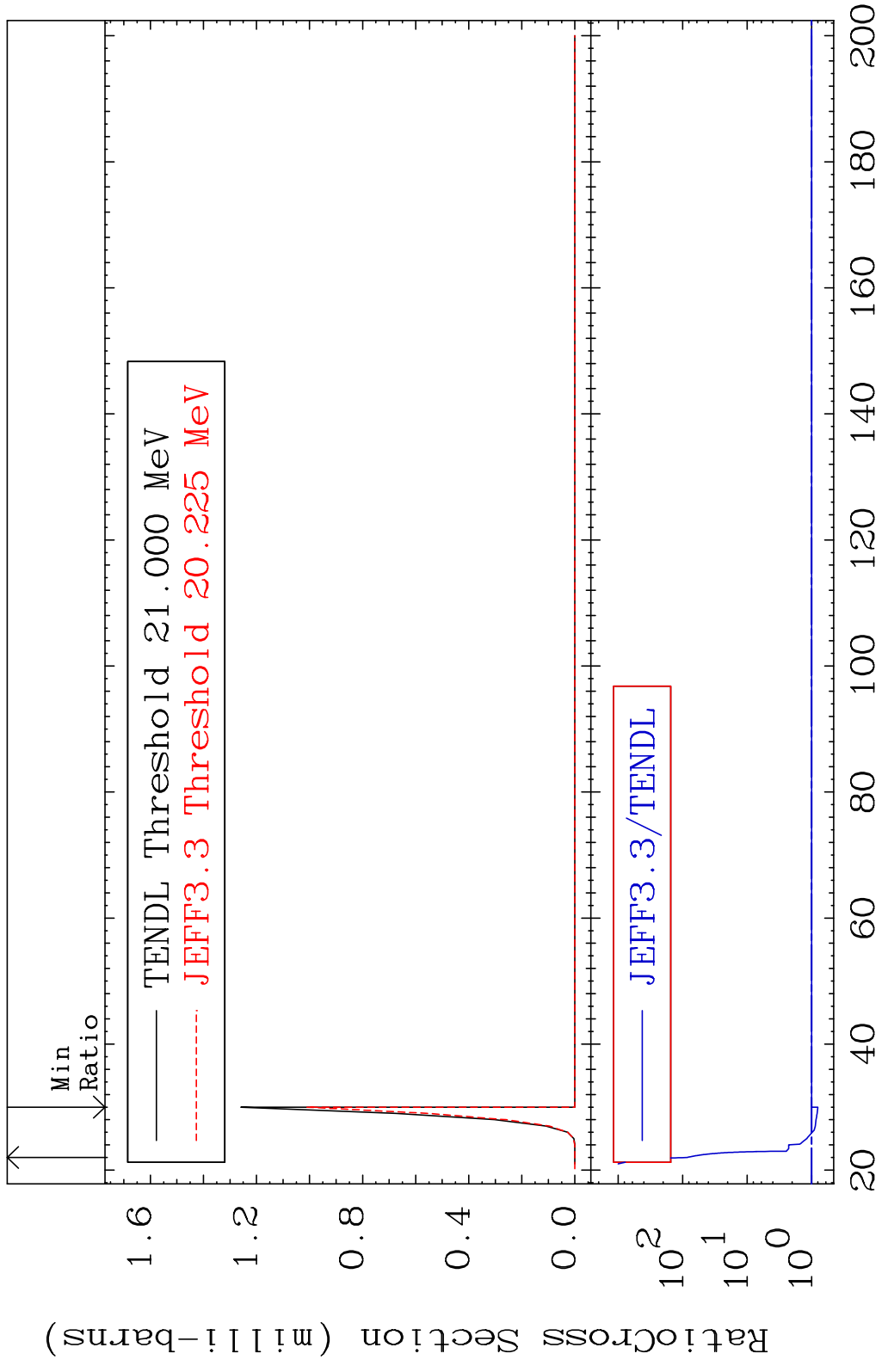


MAT 5061 (n, 4n):50-Sn-121m1 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 1703. %

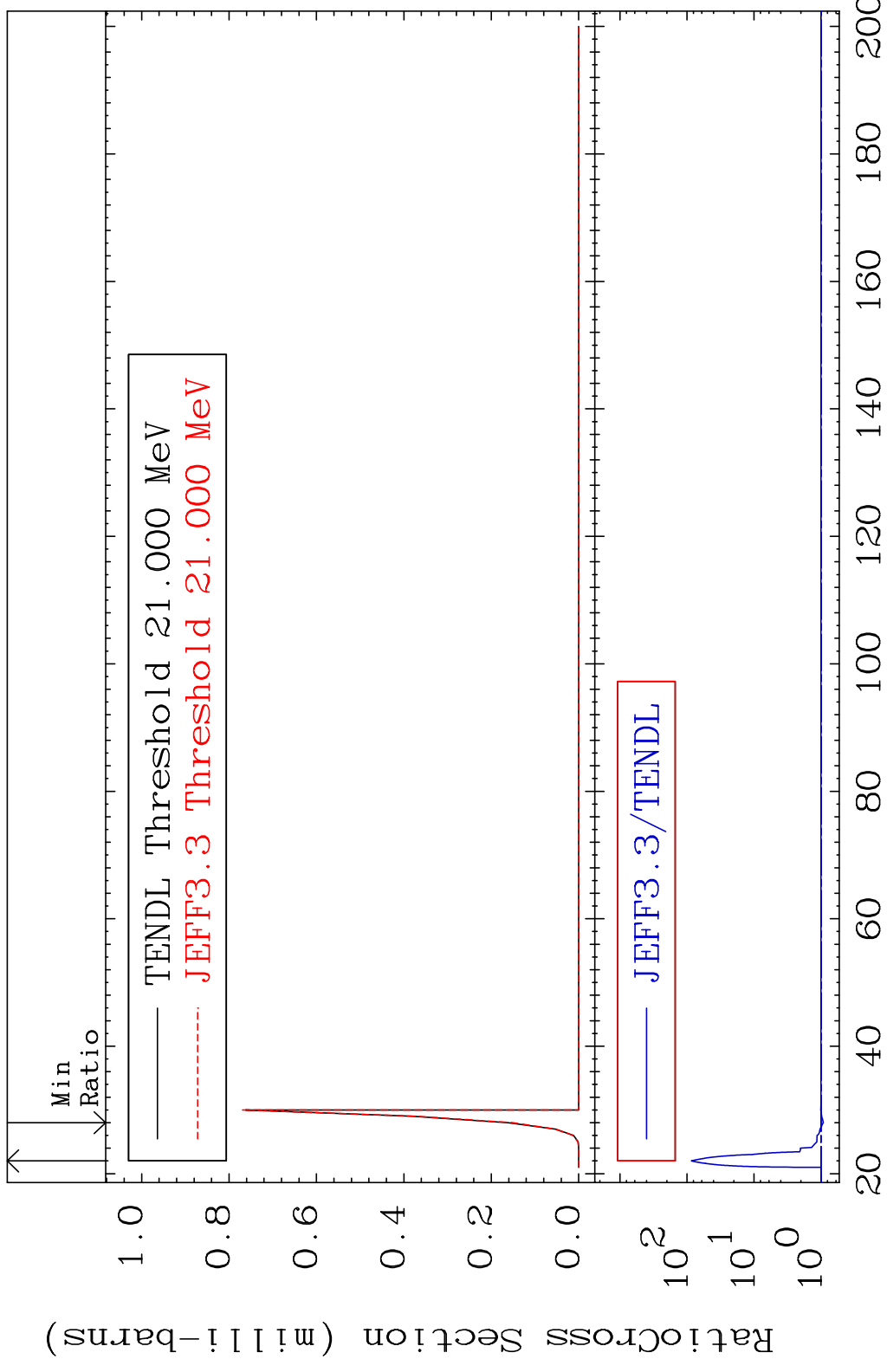


MAT 5061 (n,2n) p:49-In-122g 50-Sn-124  
 Radionuclide Production Cross Section 4965. %

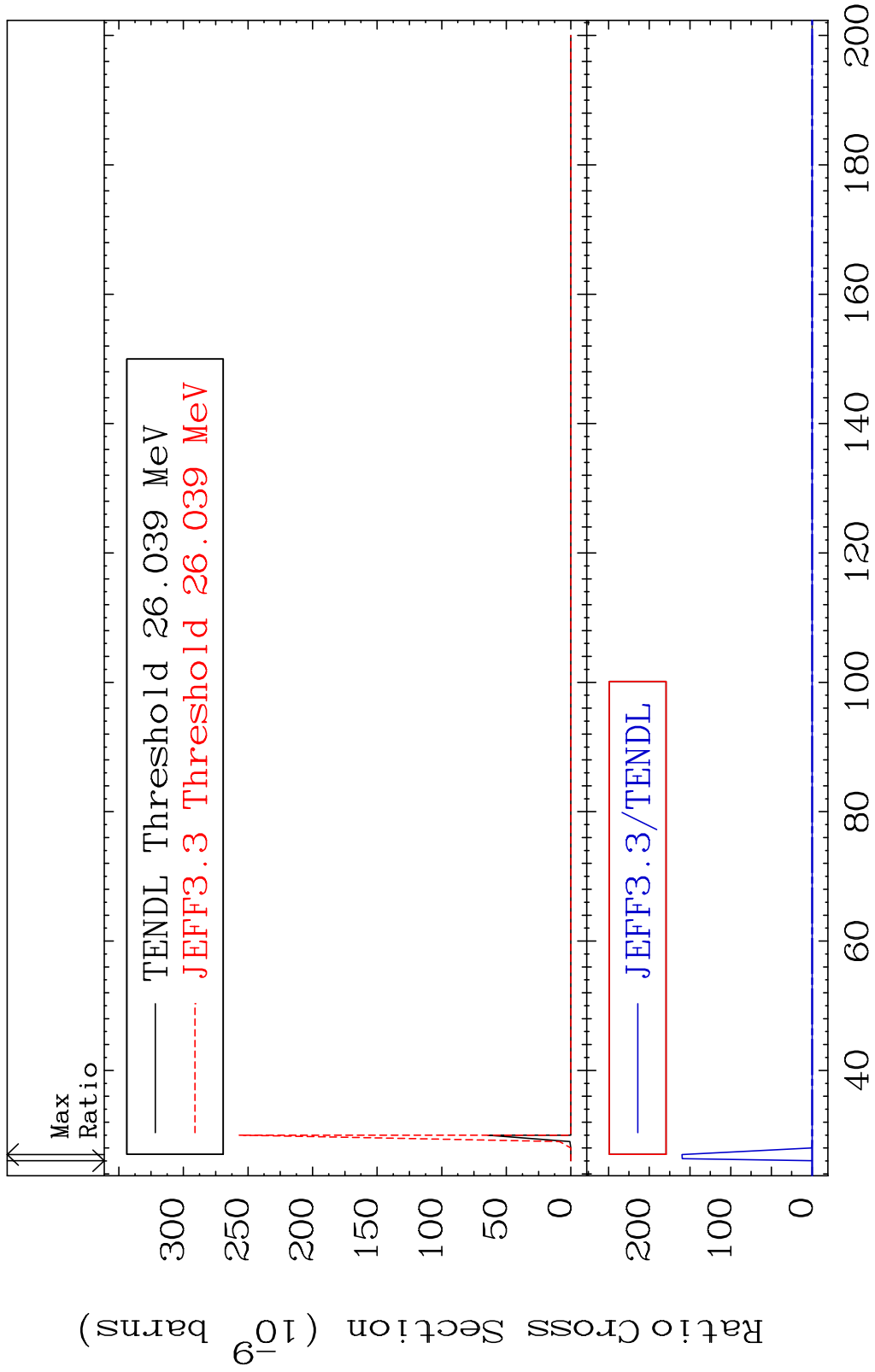




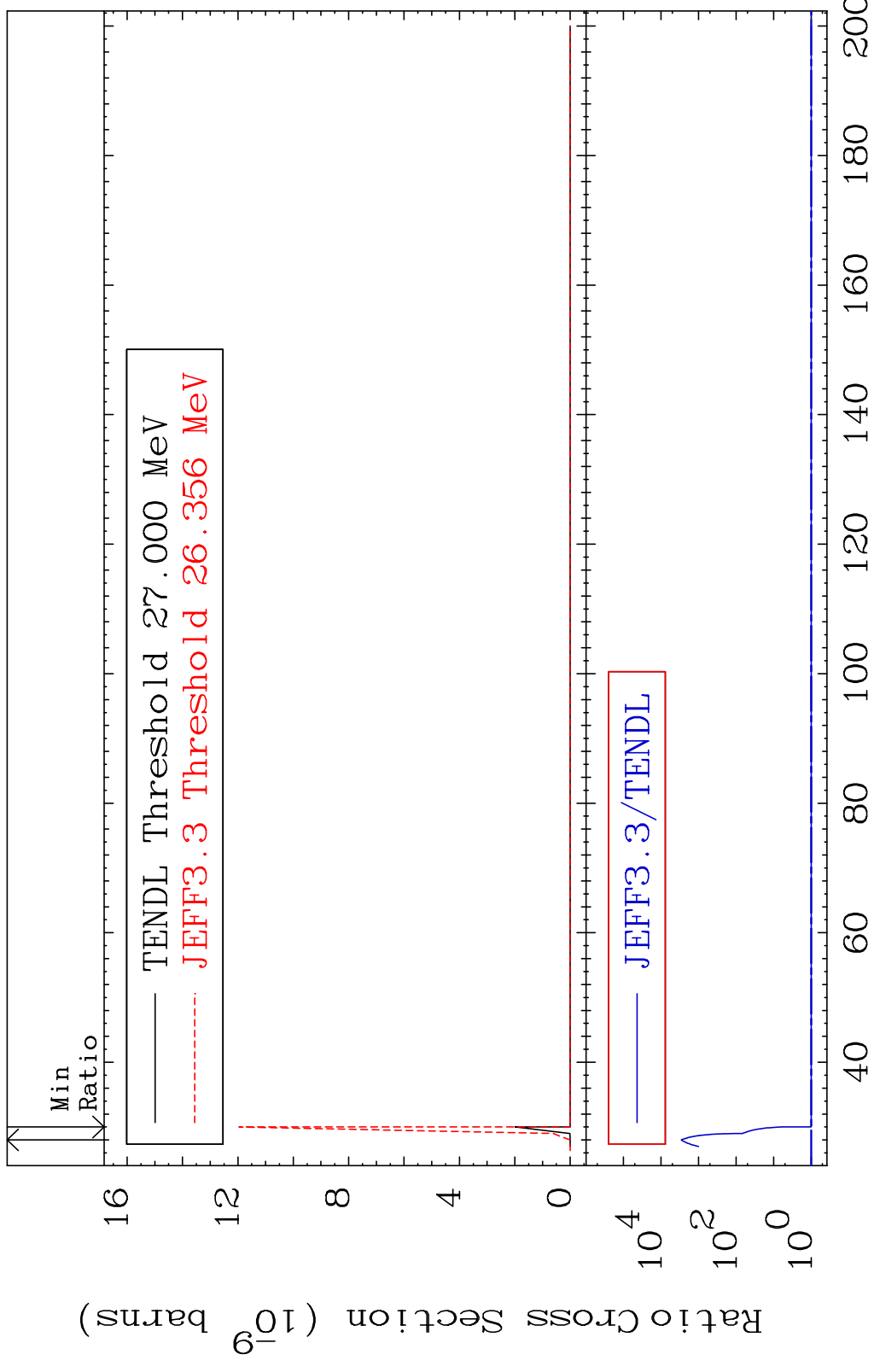




MAT 5061 (n,3n) p:49-In-121g 50-Sn-124  
 Radionuclide Production Cross Section Ratio 9999. %

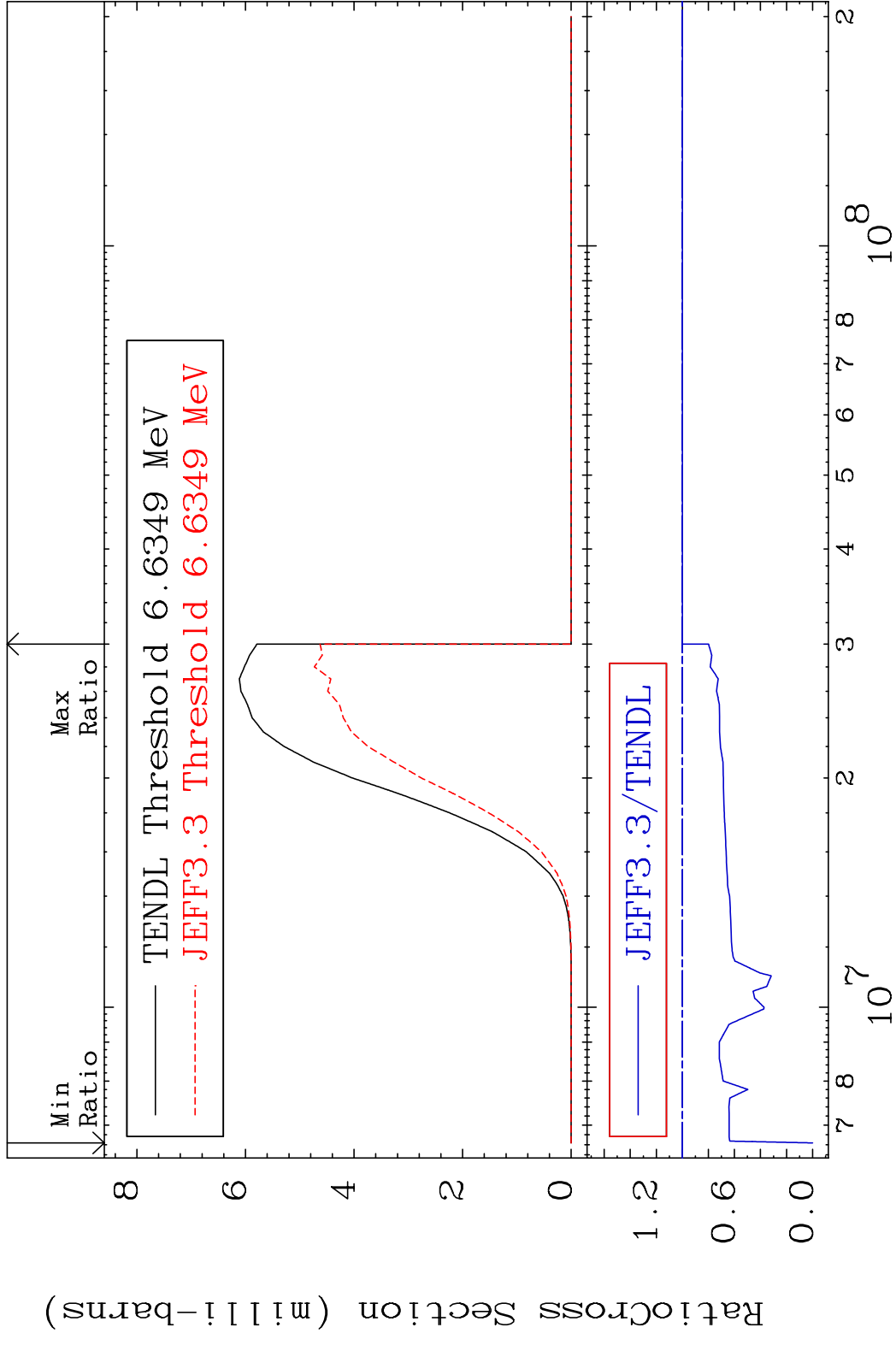


MAT 5061 (n,3n) p:49-In-121m1 50-Sn-124  
 Radionuclide Production Cross Section to 9999. %

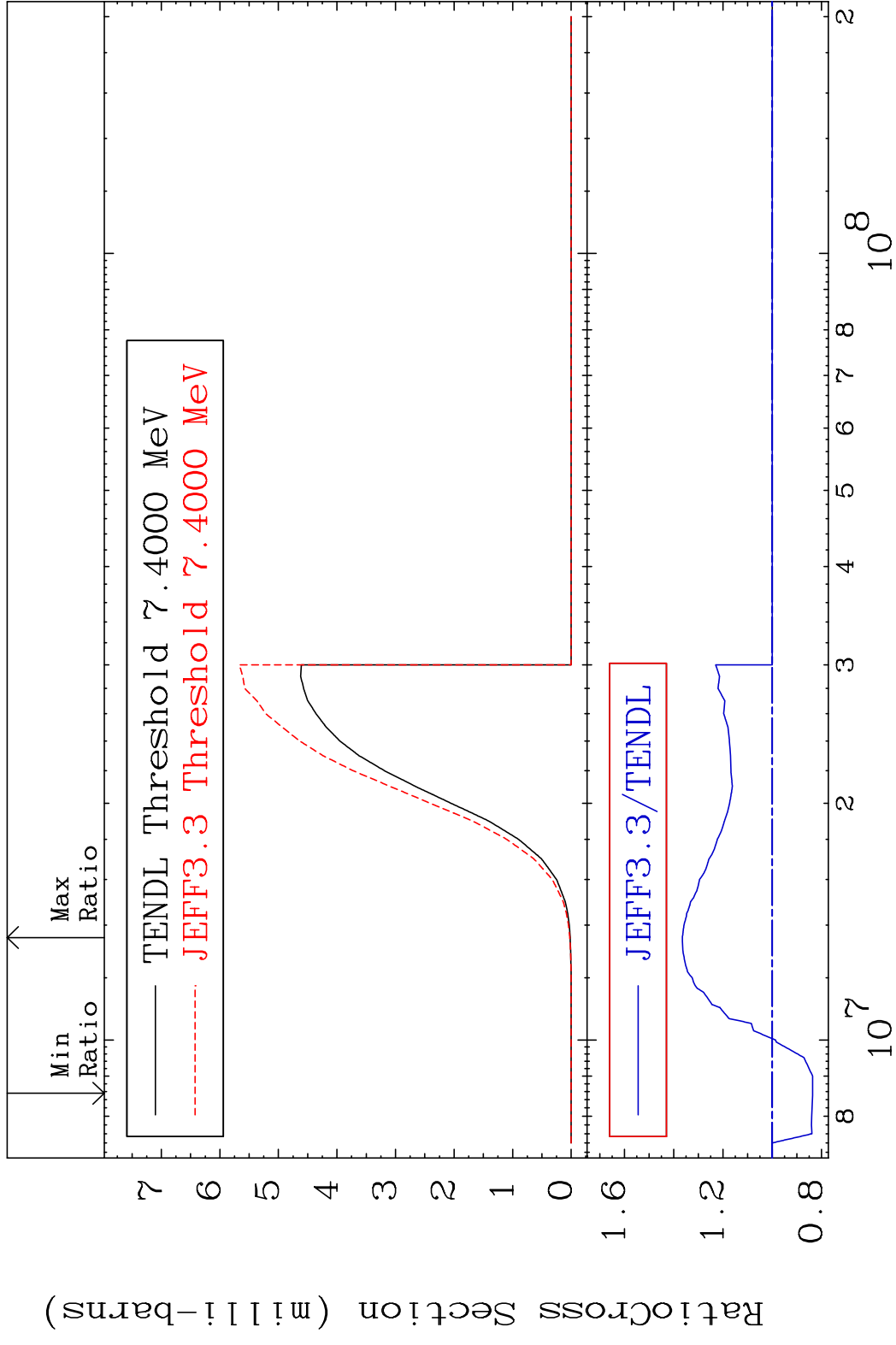


90 Incident Energy (MeV) 50-Sn-124

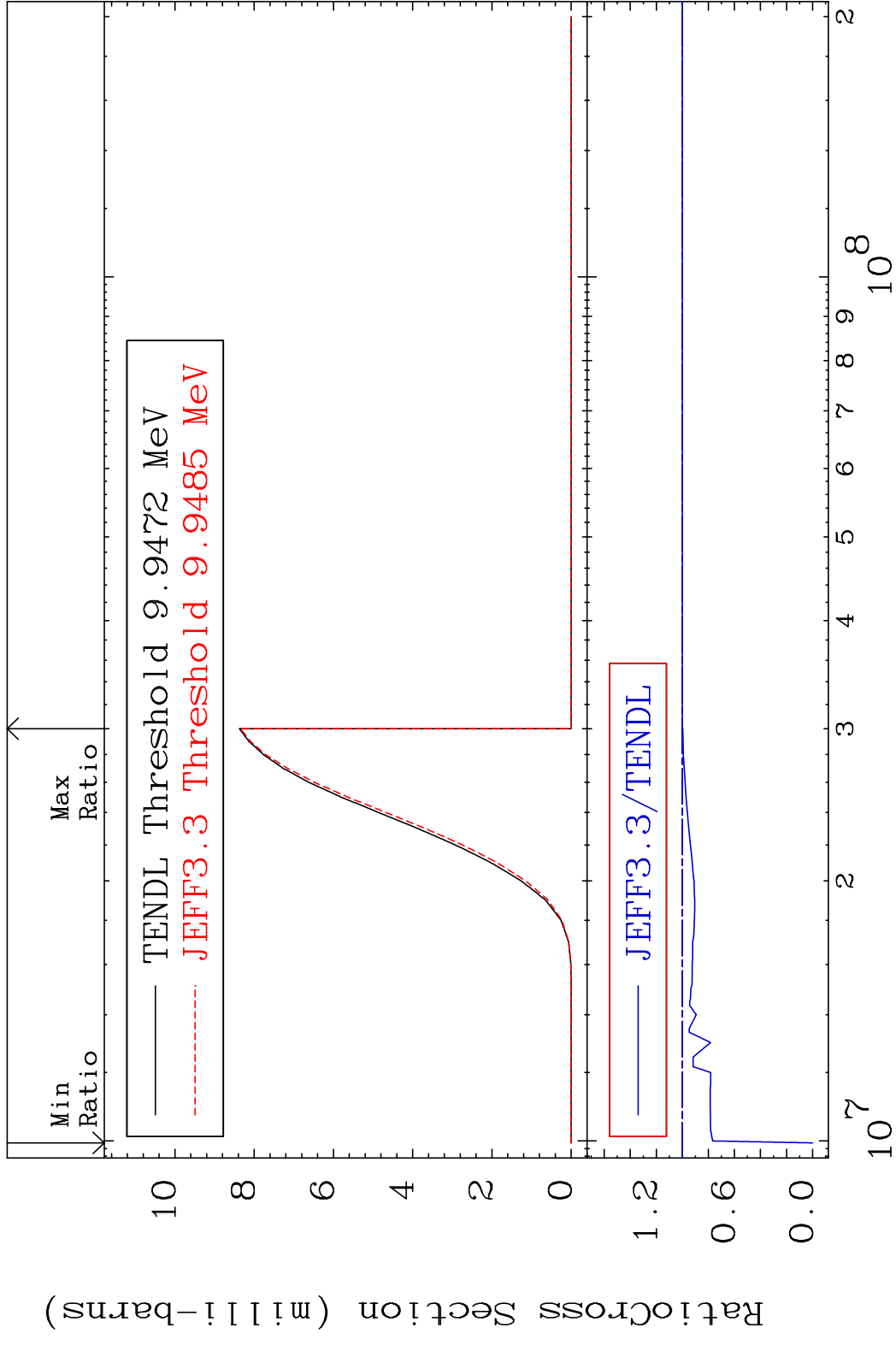
MAT 5061 (n,p):49-In-124g 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 0.000 %



MAT 5061 (n, p): 49-In-124m2 50-Sn-124  
 Radionuclide Production Cross Section 186.34 dpo 36.51 %

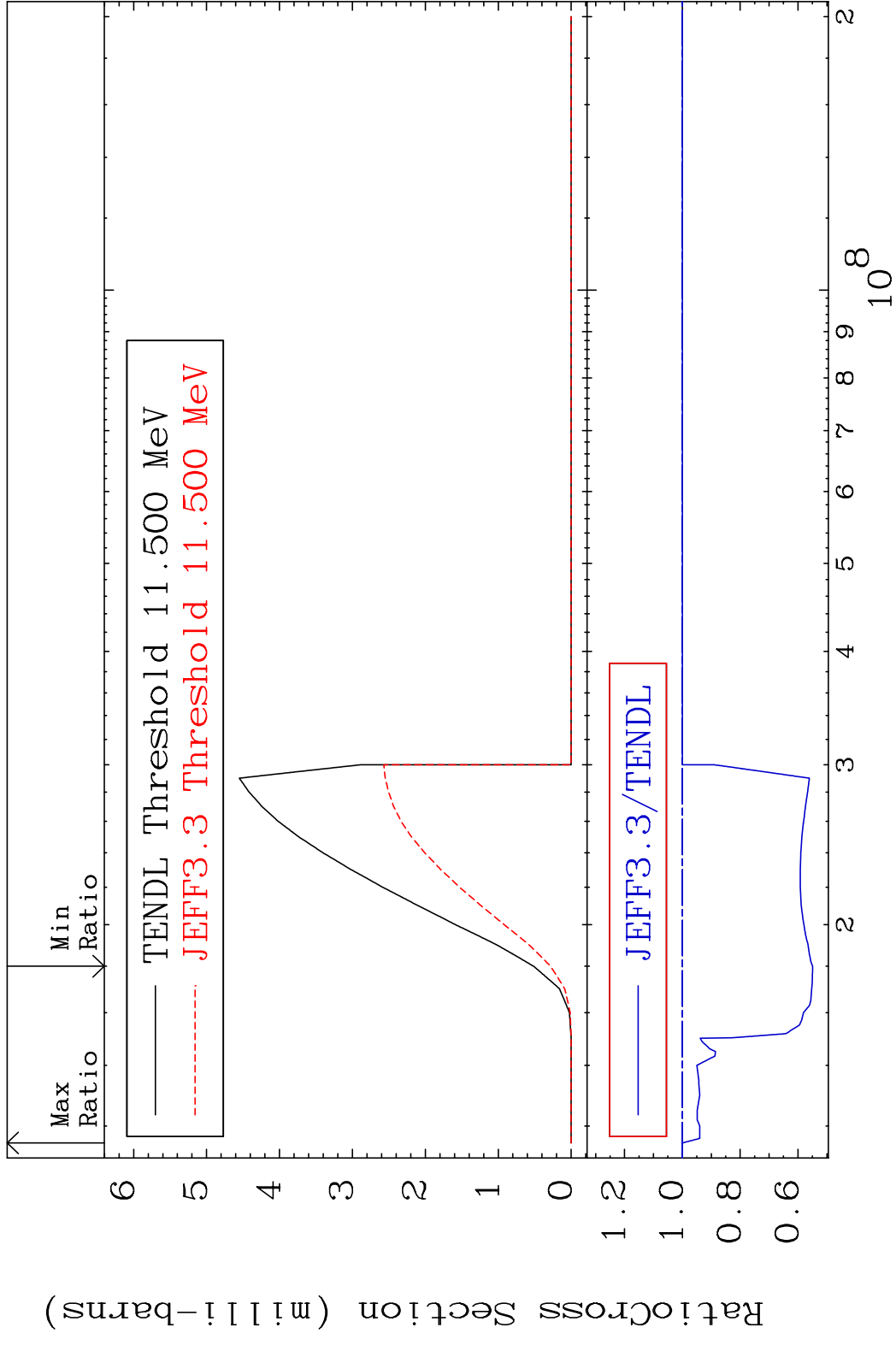


MAT 5061 (n, d): 49-In-123g 50-Sn-124  
 Radionuclide Production Cross Section 100.000 %

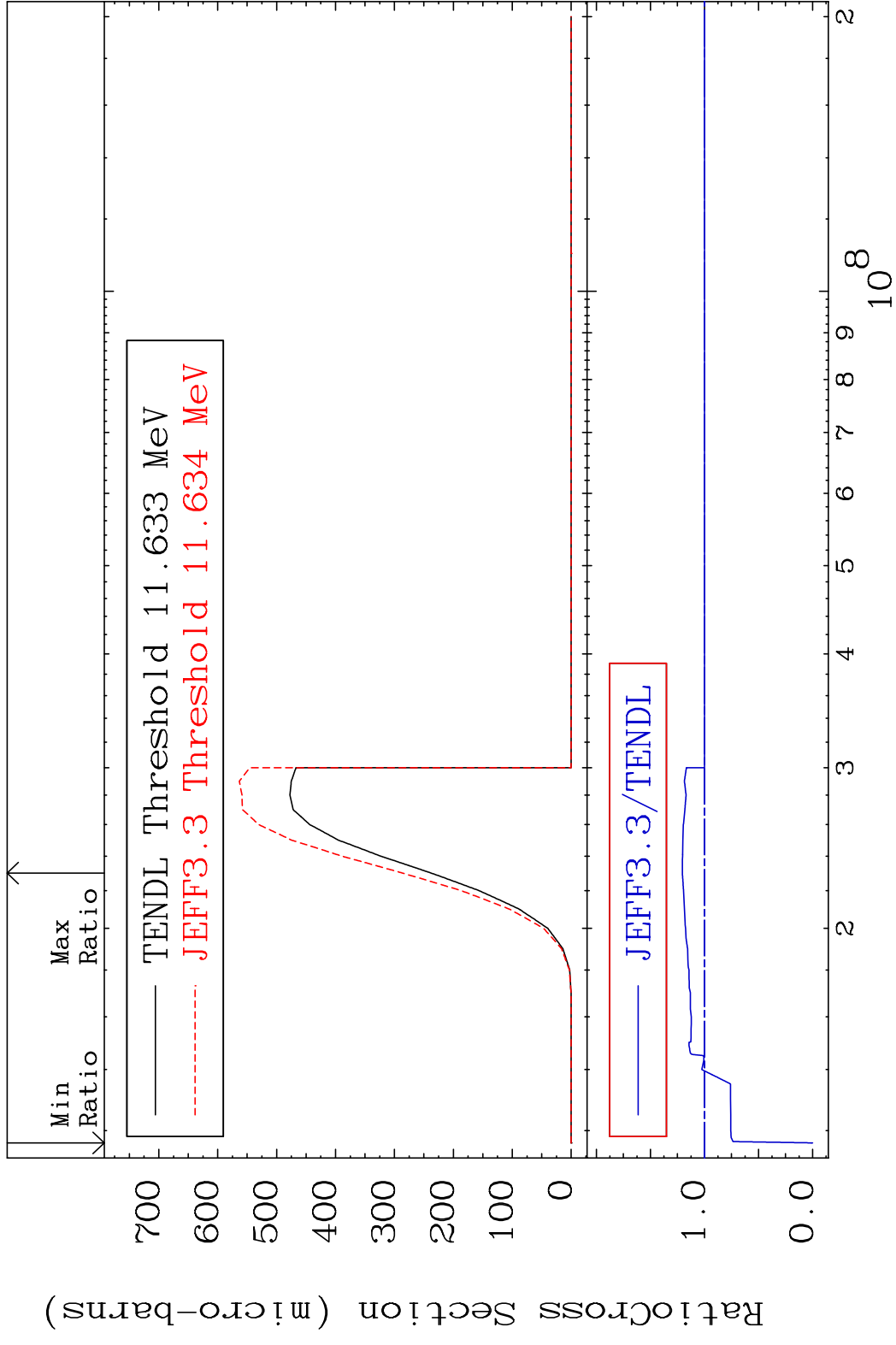


93 50-Sn-124

MAT 5061 (n, d): 49-In-123m1 50-Sn-124  
 Radionuclide Production Cross Section 0.000 %

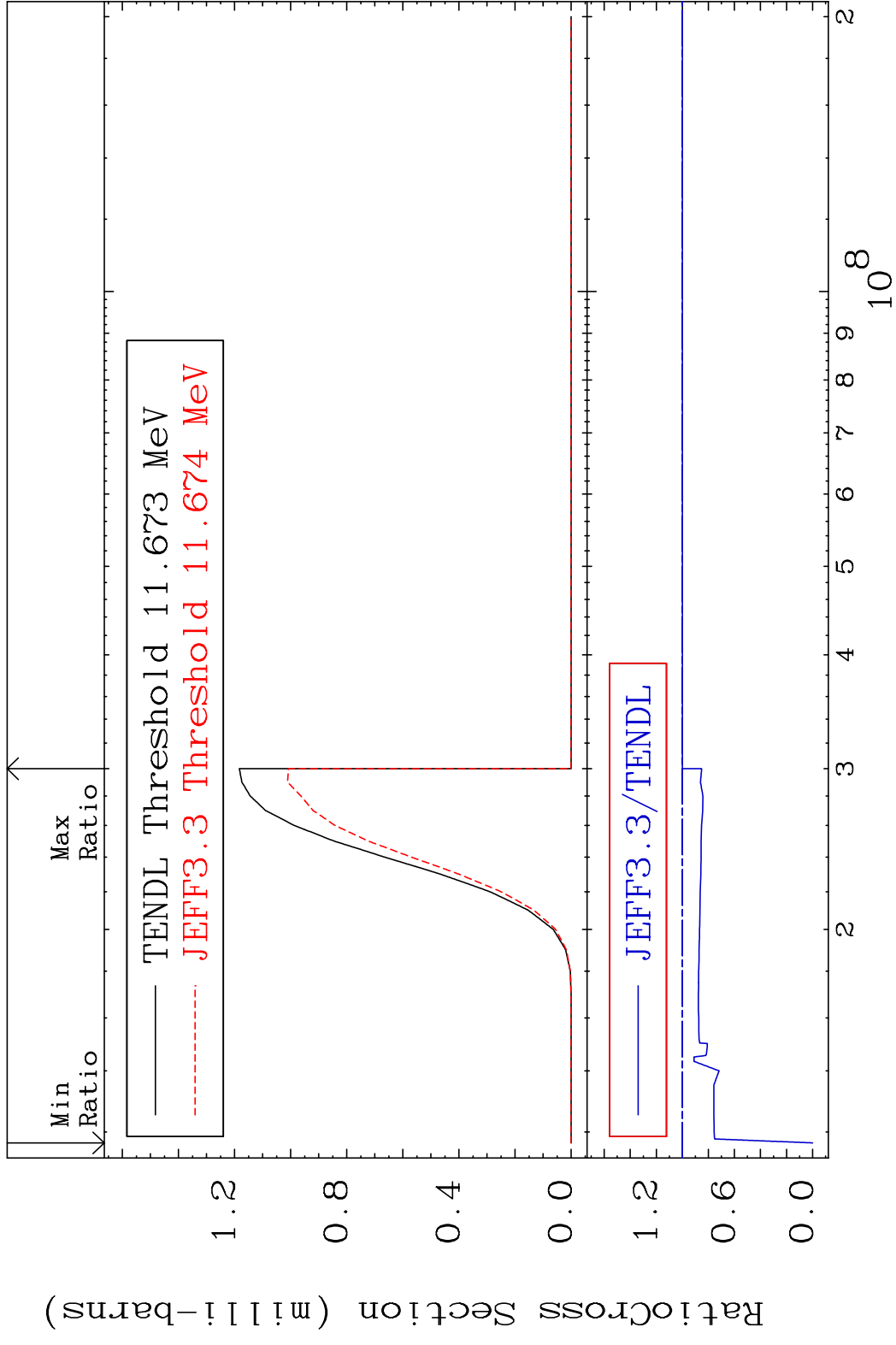


MAT 5061 (n, t): 49-In-122g 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 20.47 %

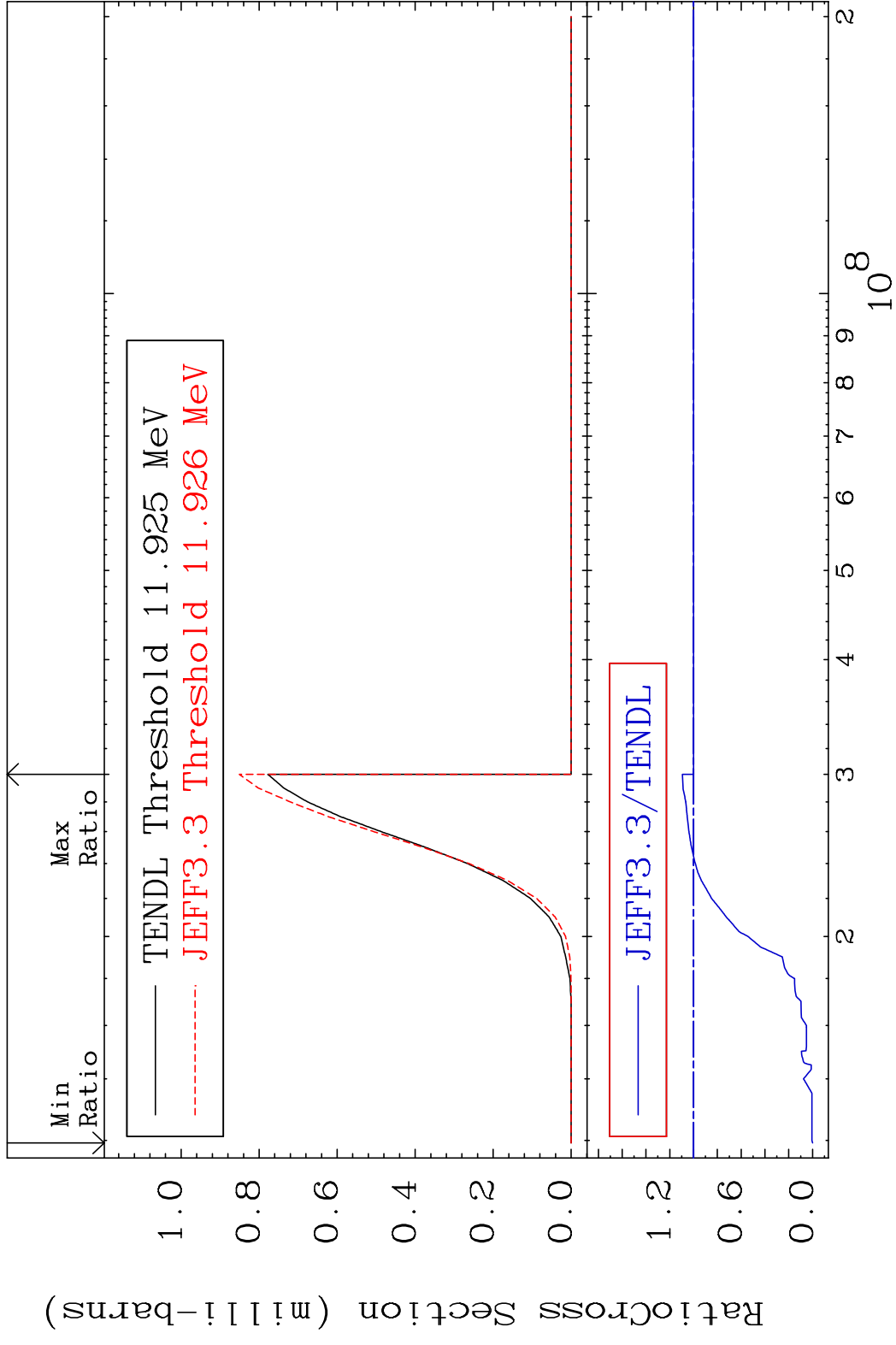




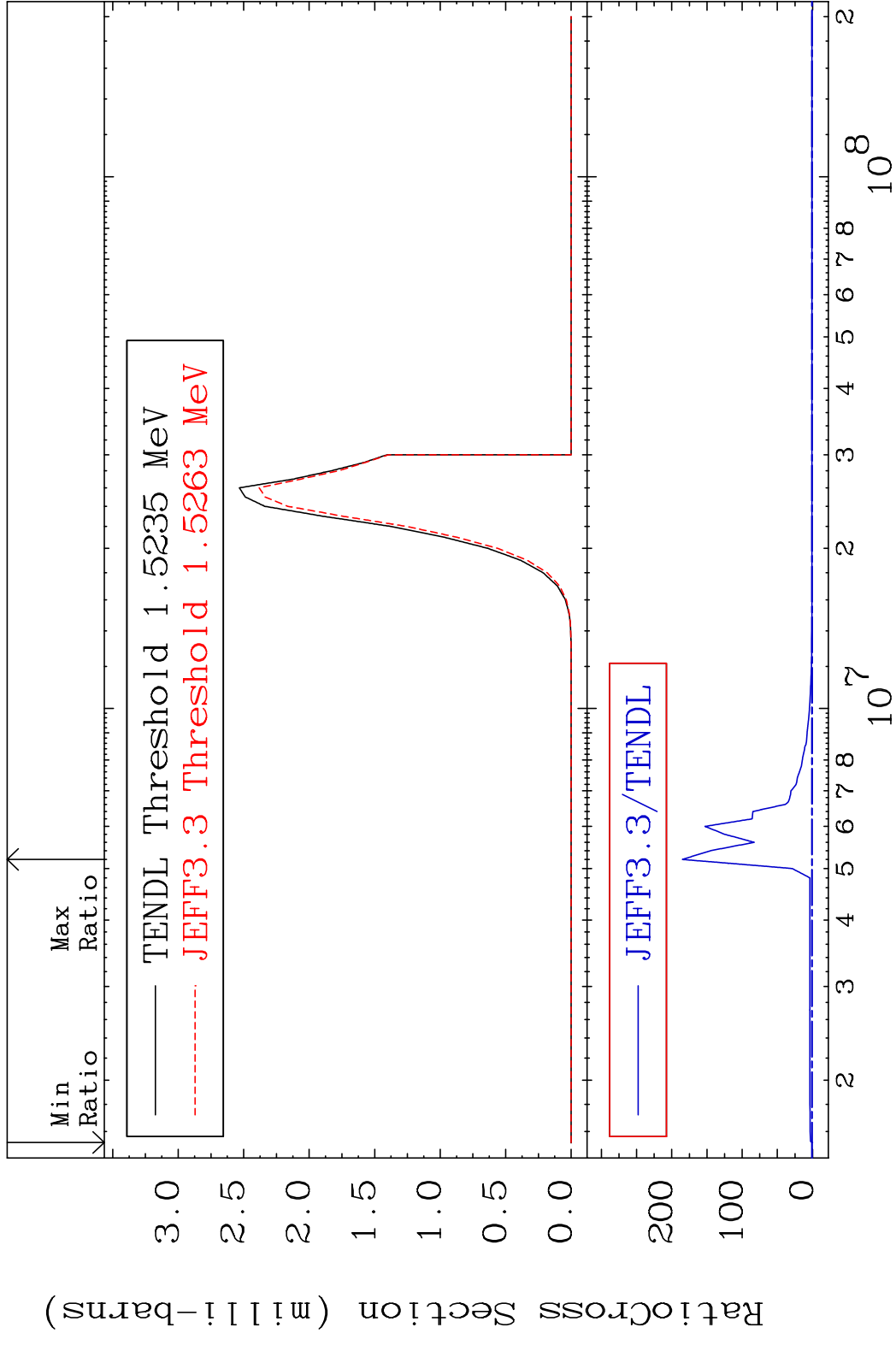
MAT 5061 (n, t): 49-In-122m1 50-Sn-124  
 Radionuclide Production Cross Section 100.0 mb 0.000 %

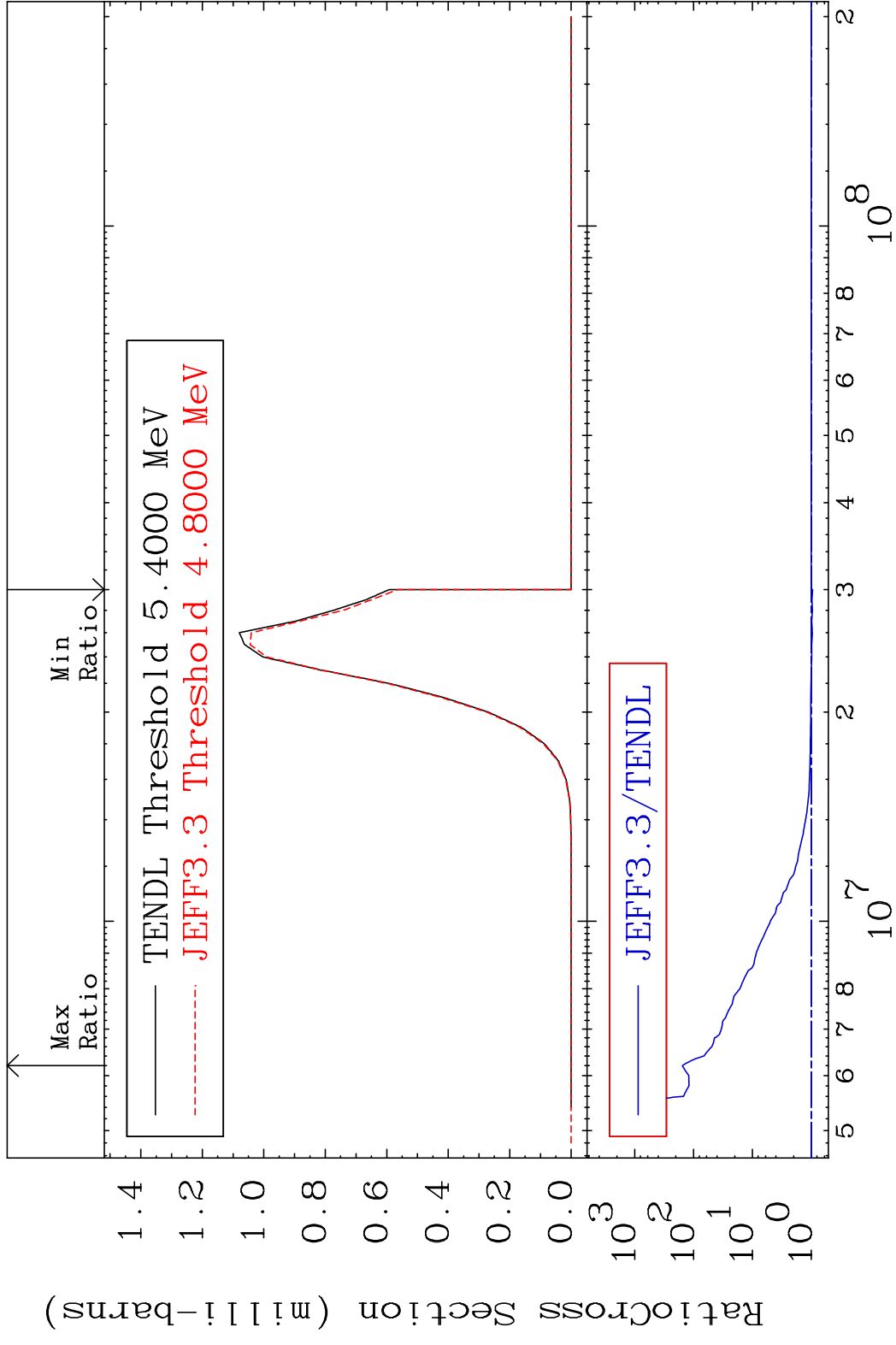


MAT 5061 (n, t): 49-In-122m5 50-Sn-124  
 Radionuclide Production Cross Section Ratio 9.419 %

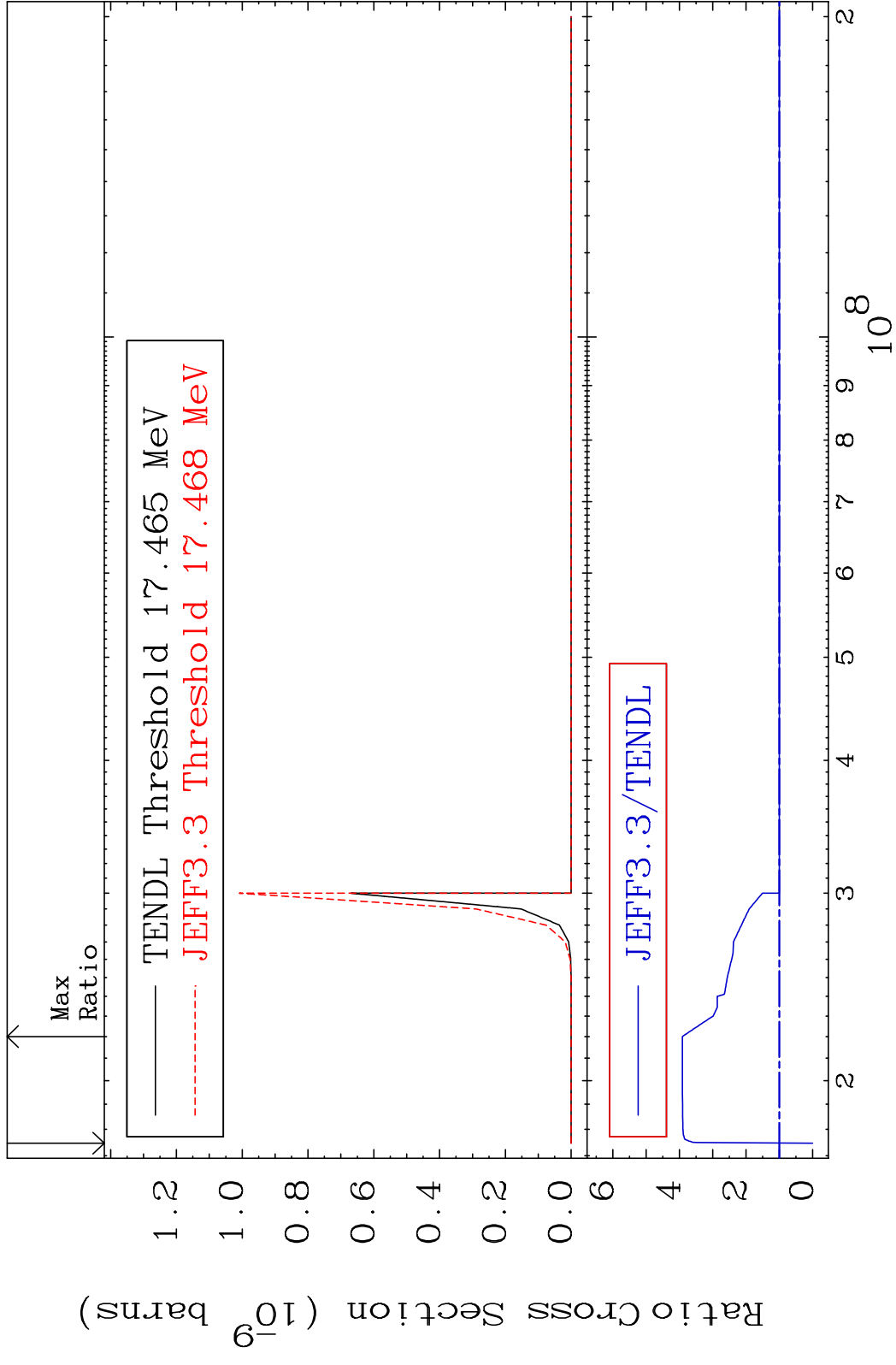


MAT 5061 (n,α):48-Cd-121g 50-Sn-124  
 Radionuclide Production Cross Section (%)





MAT 5061 (n,2p):48-Cd-123g 50-Sn-124  
 Radionuclide Production Cross Section 180.01 dth 291.3 %



100 Incident Energy (eV) 50-Sn-124