

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

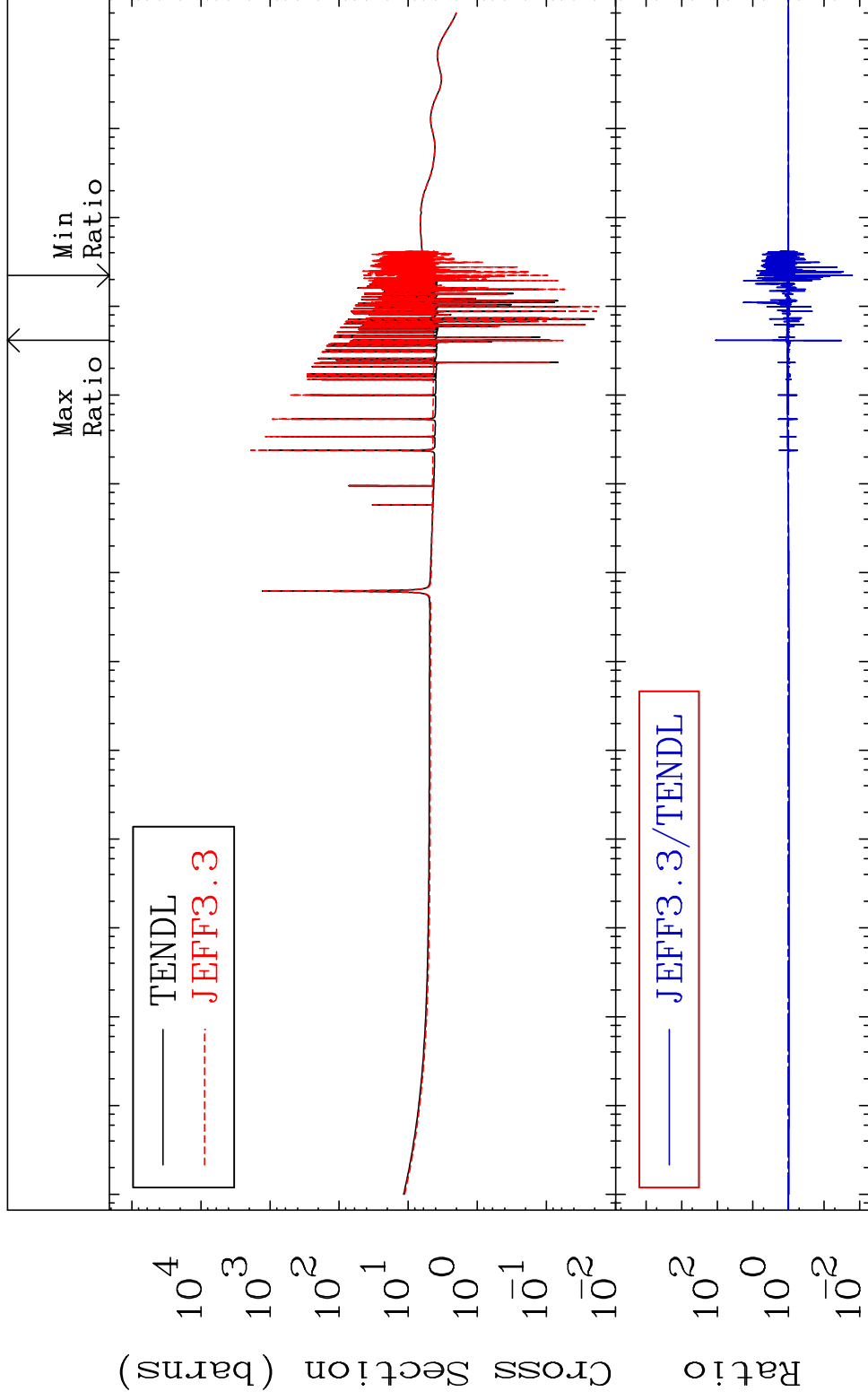
MAT 5061

Total

50-Sn-124

Cross Section

-98.37 To 9999. %



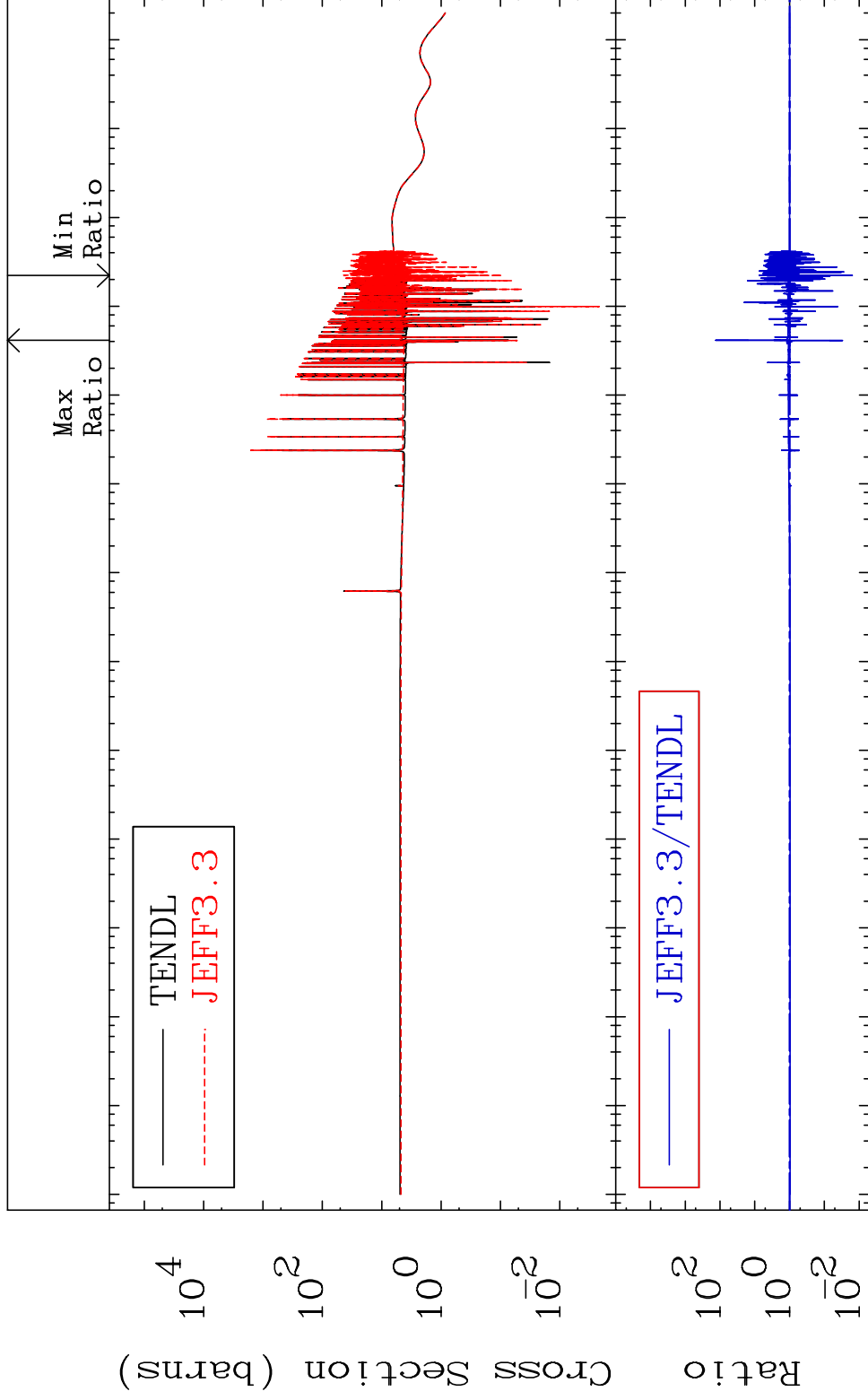
MAT 5061

Elastic

50-Sn-124

Cross Section

-98.42 To 9999. %



2

Incident Energy (eV)

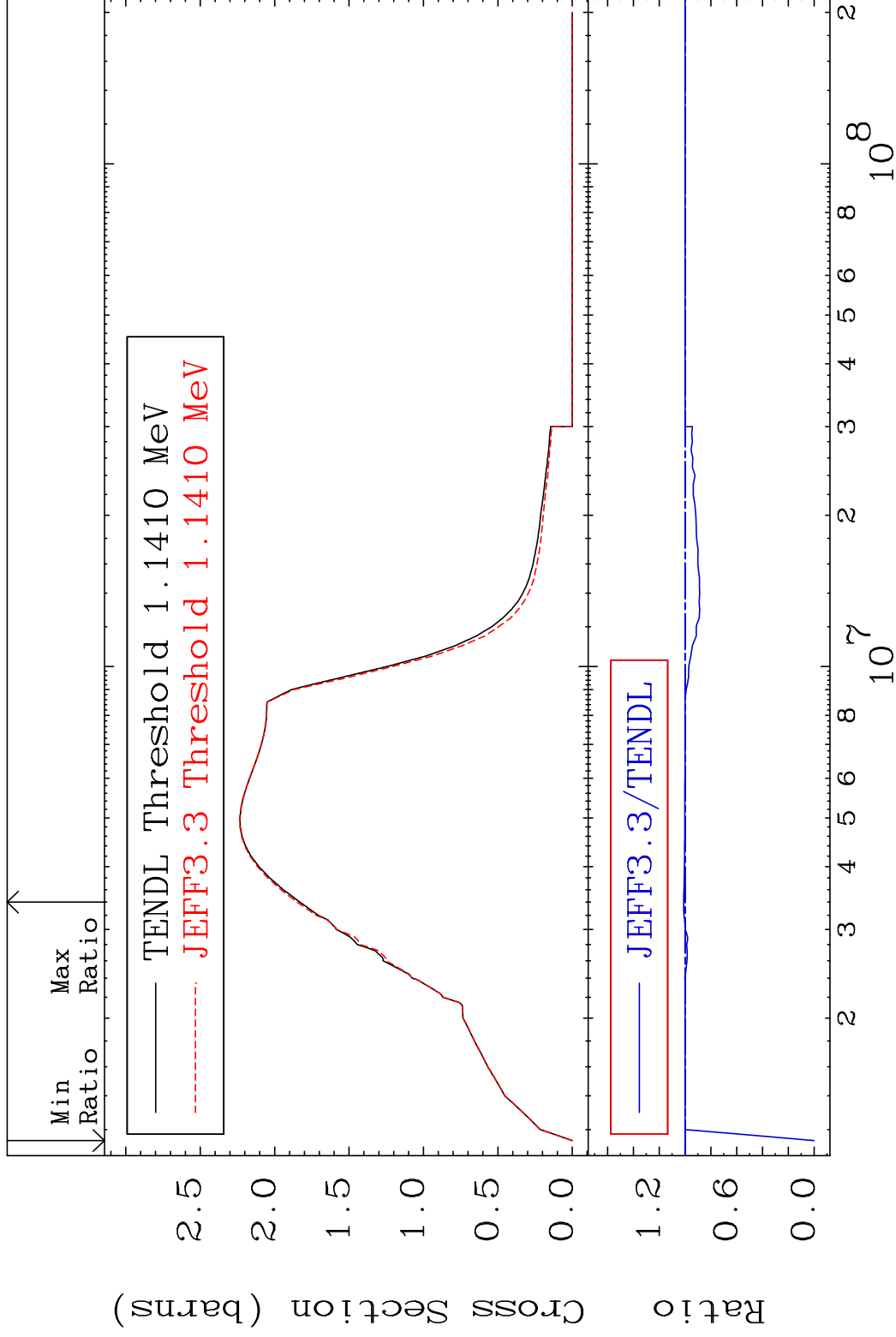
50-Sn-124

MAT 5061

Inelastic

50-Sn-124

Cross Section -100.0 To 1.026 %

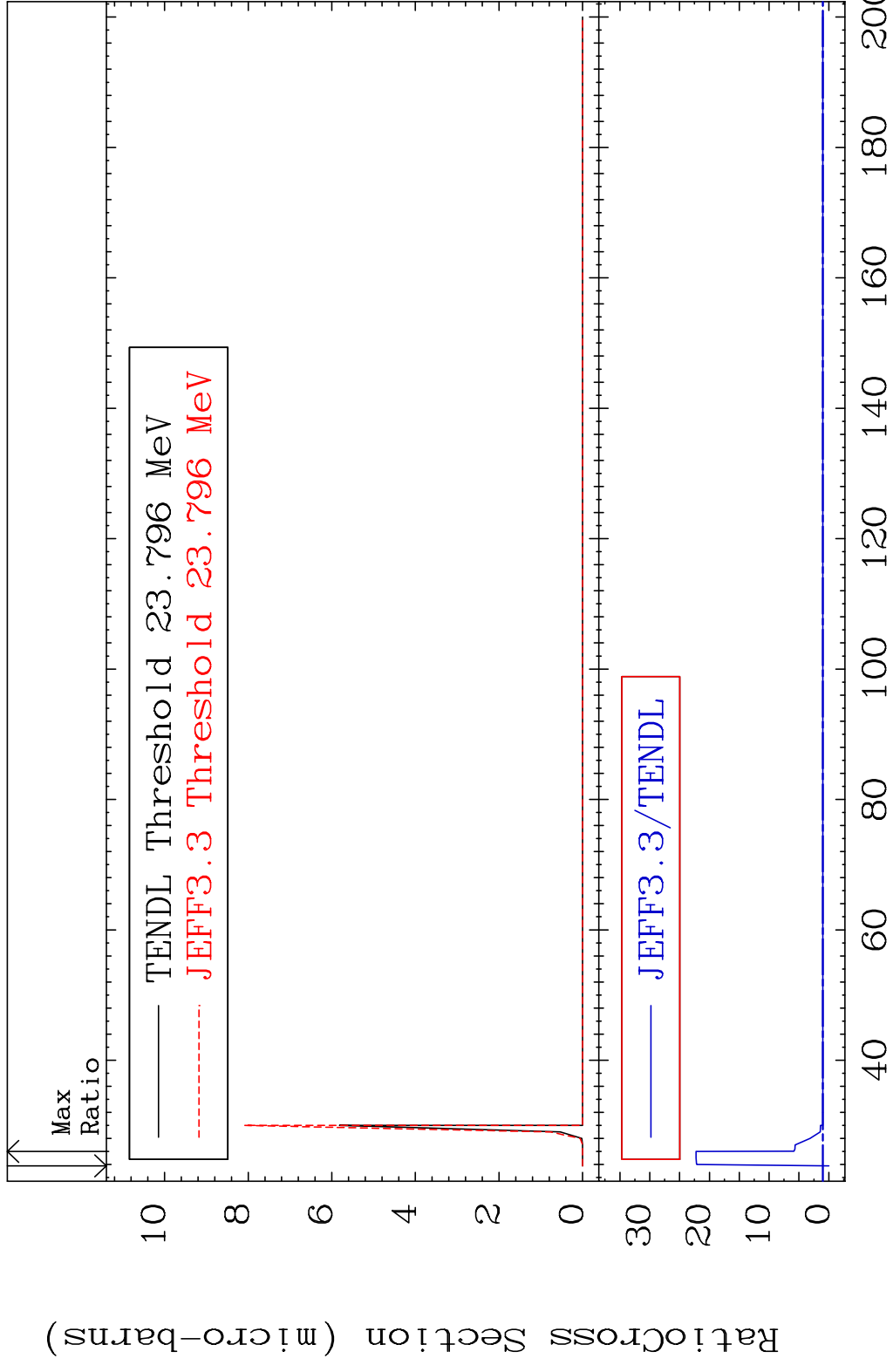


3

Incident Energy (eV)

50-Sn-124

MAT 5061 (n,2n) d 50-Sn-124
Cross Section -100.0 To 2125. %



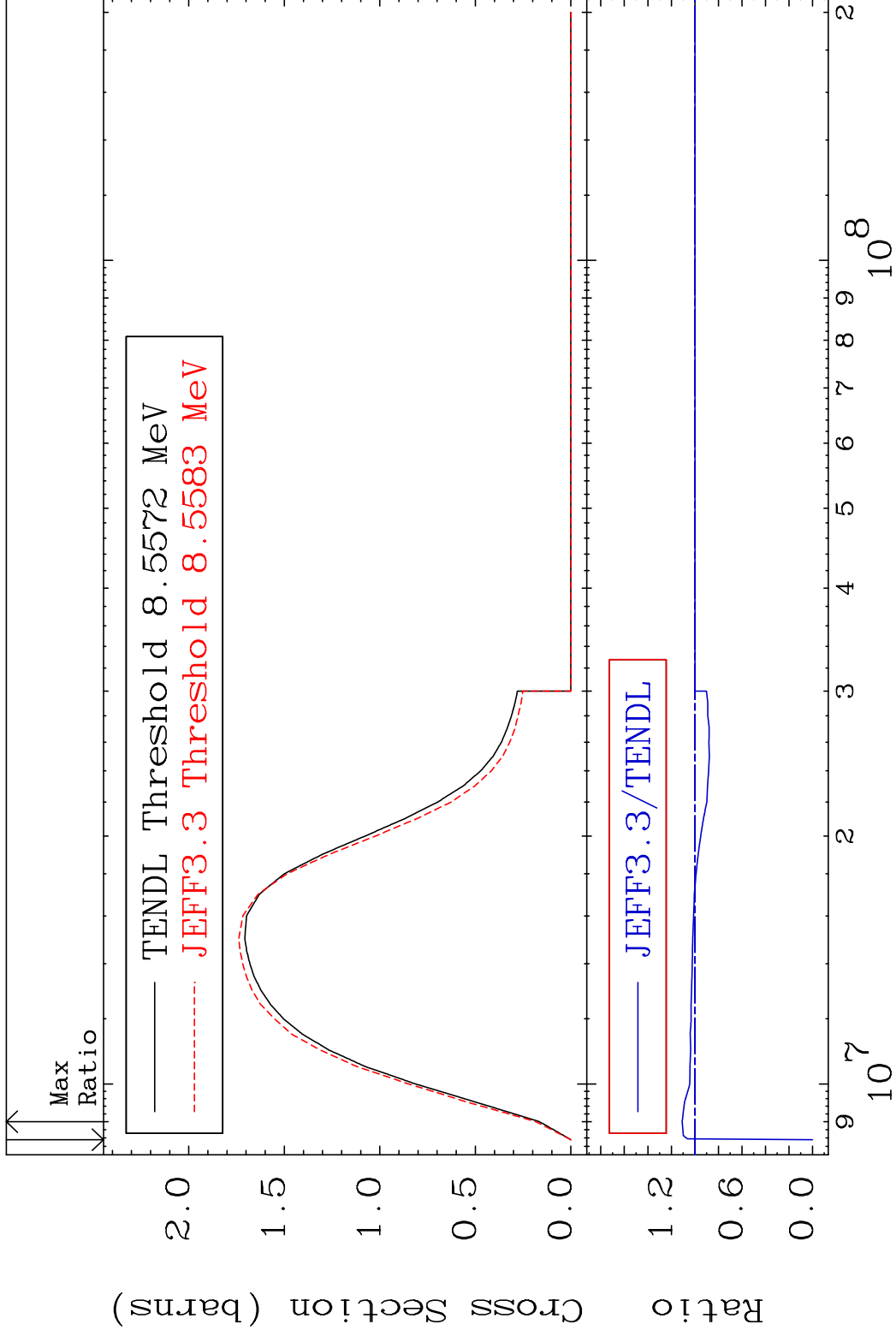
4 Incident Energy (MeV) 50-Sn-124

MAT 5061

(n,2n)

50-Sn-124

Cross Section -100.0 To 10.82 %



5

Incident Energy (eV)

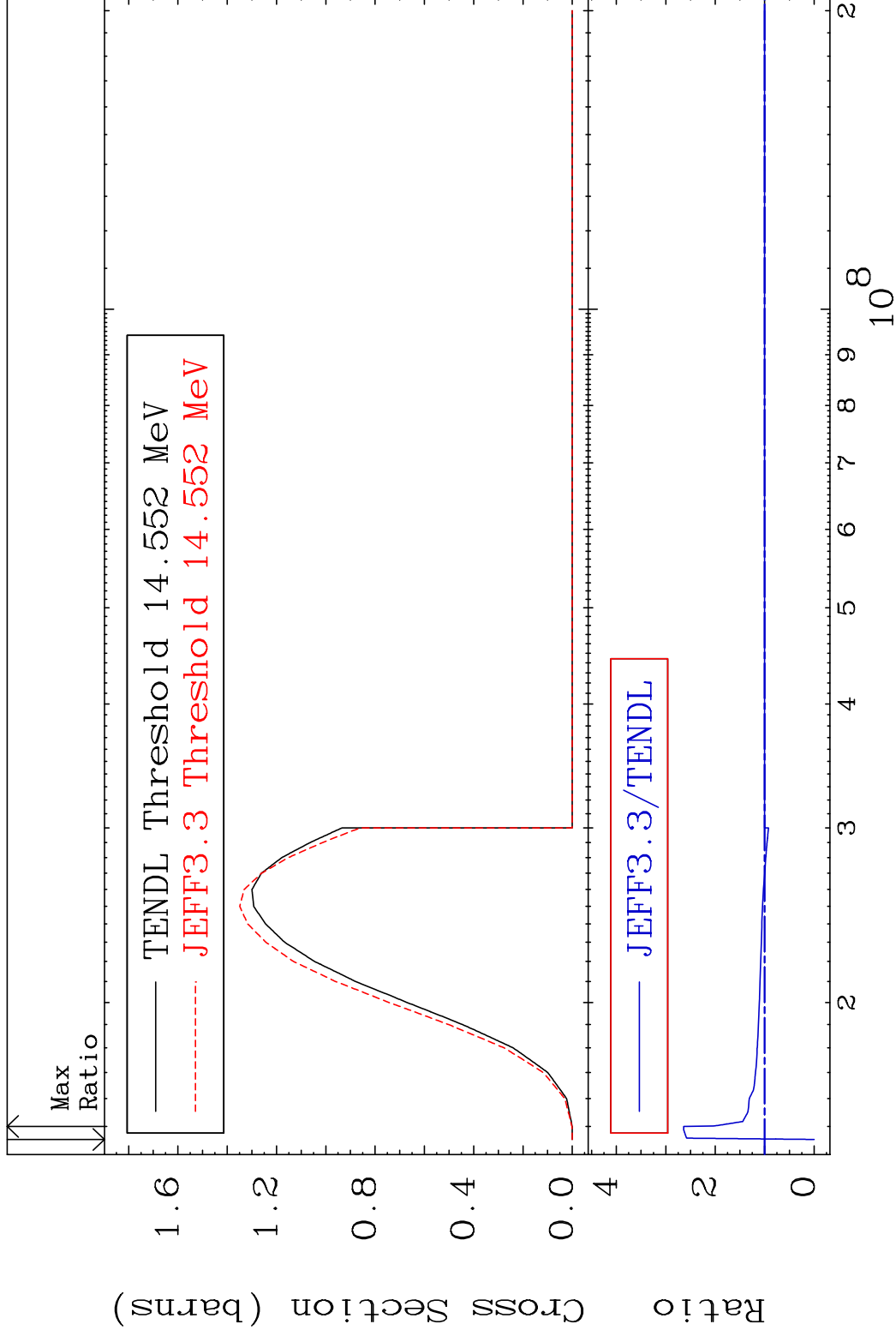
50-Sn-124

MAT 5061

(n,3n)

50-Sn-124

Cross Section -100.0 To 163.8 %



6

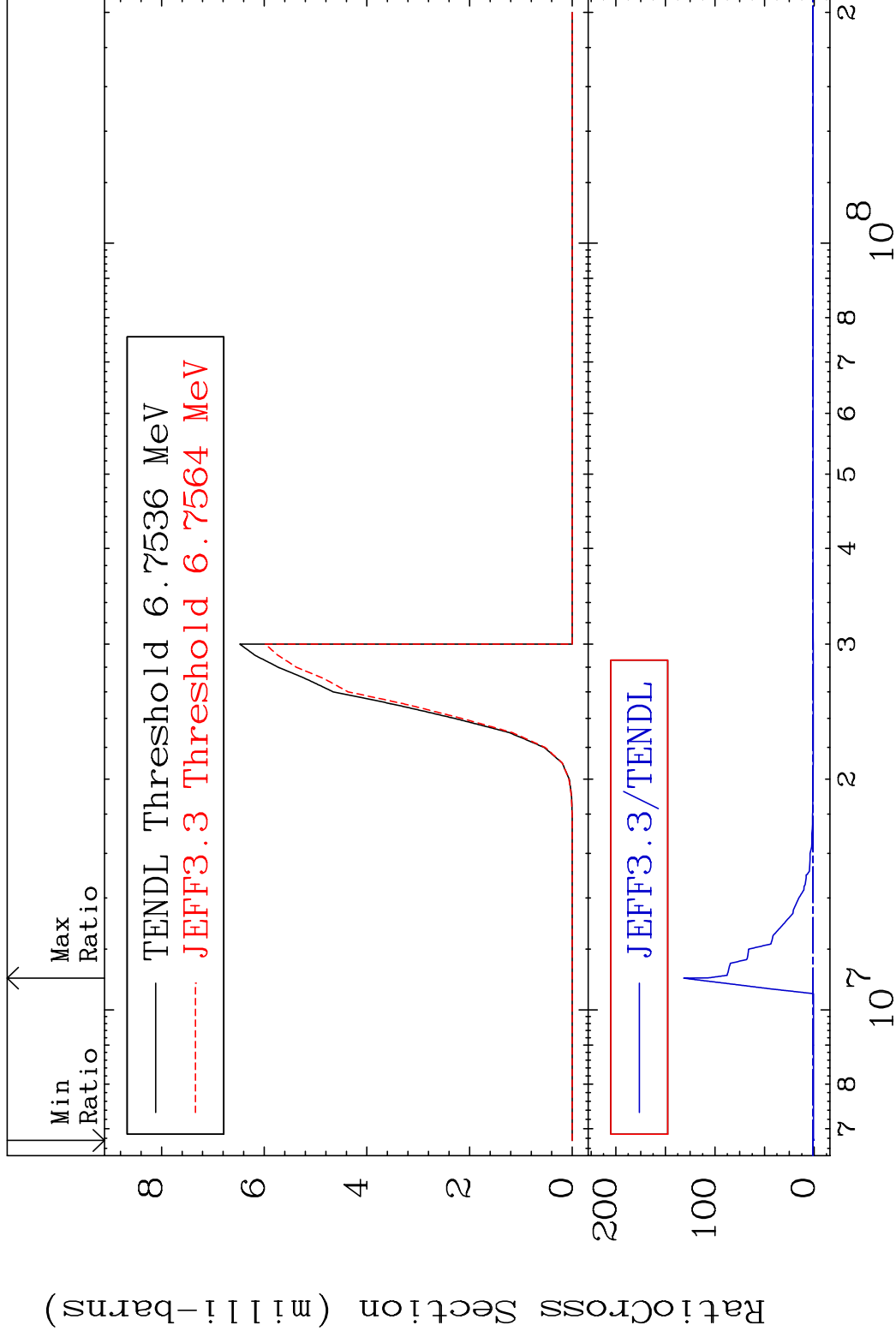
Incident Energy (eV)

50-Sn-124

MAT 5061

(n, n') α 50-Sn-124

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

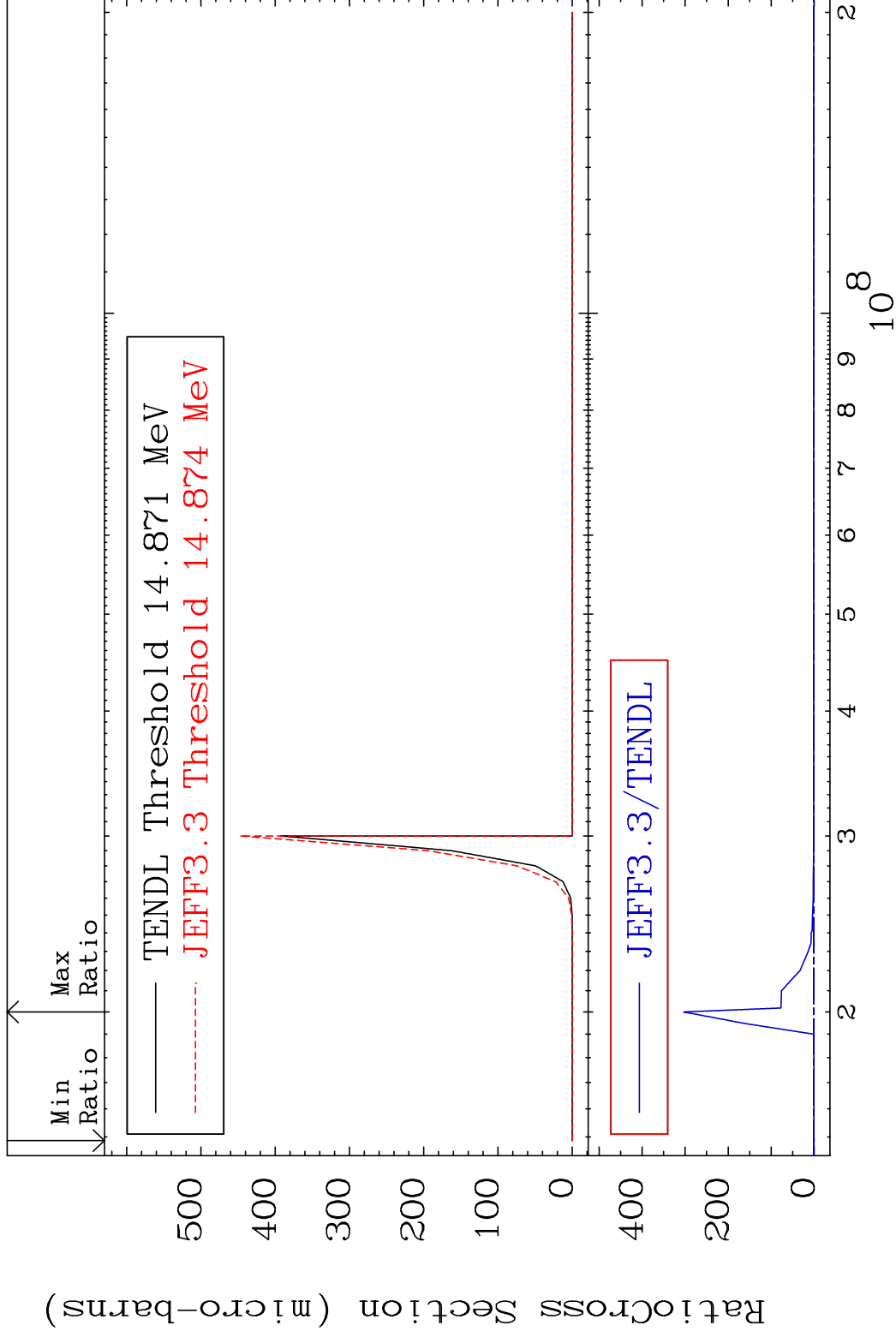
50-Sn-124

MAT 5061

(n,2n) α

50-Sn-124

Cross Section -100.0 To 9999. %

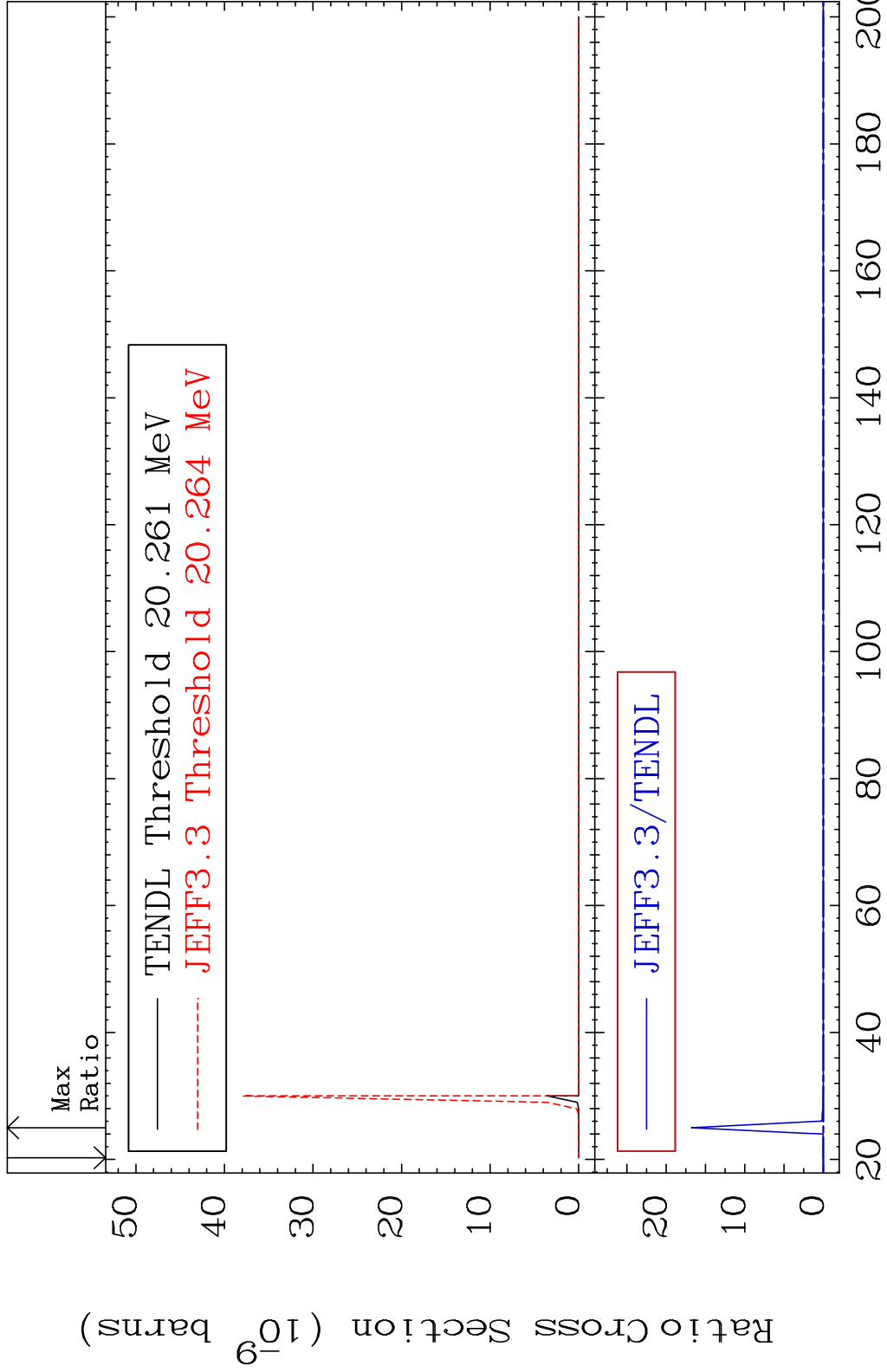


8

Incident Energy (eV)

50-Sn-124

MAT 5061 (n,3n) α 50-Sn-124
 Cross Section -100.0 To 9999. %

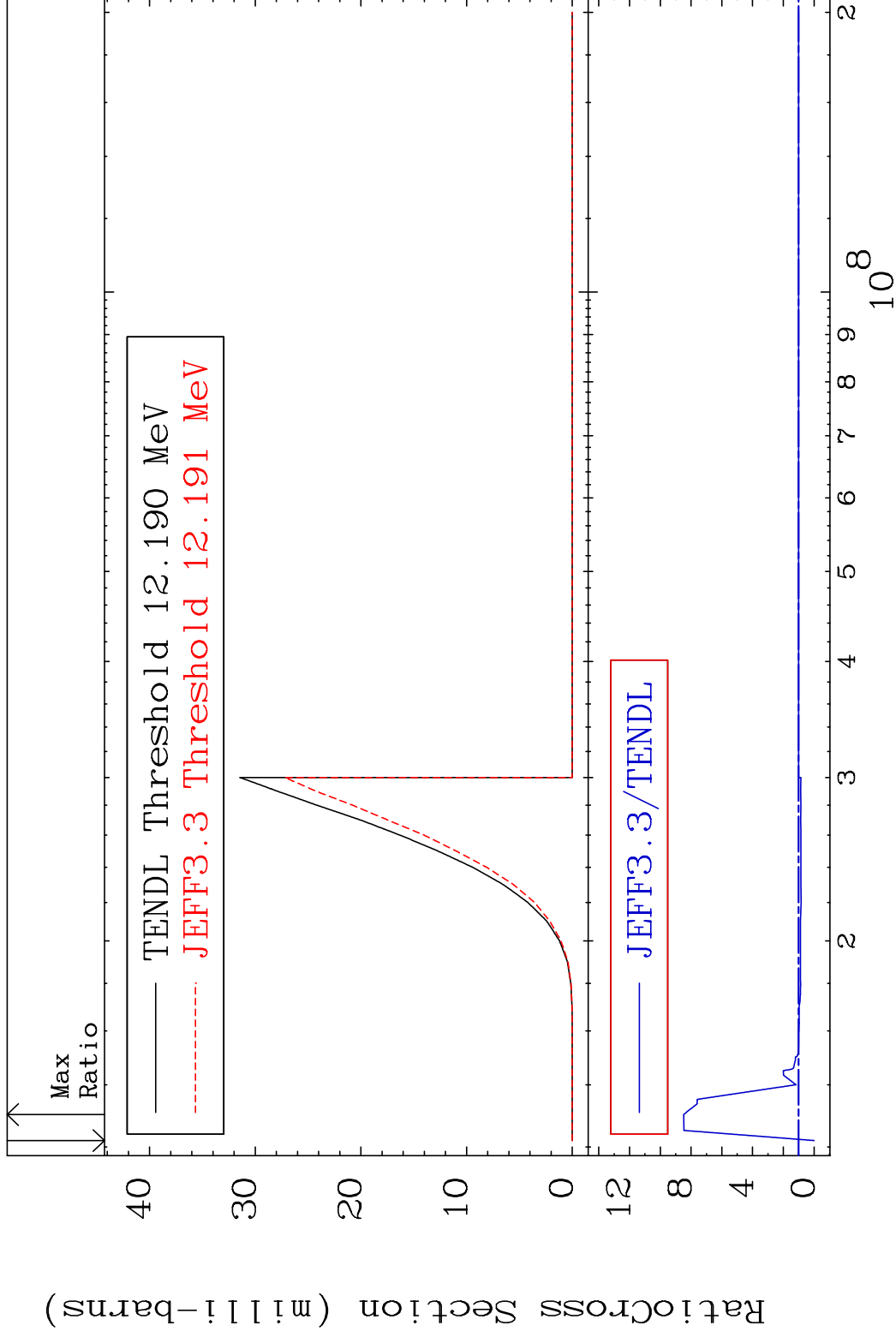


MAT 5061

(n, n') p

50-Sn-124

Cross Section -100.0 To 748.1 %



10

Incident Energy (eV)

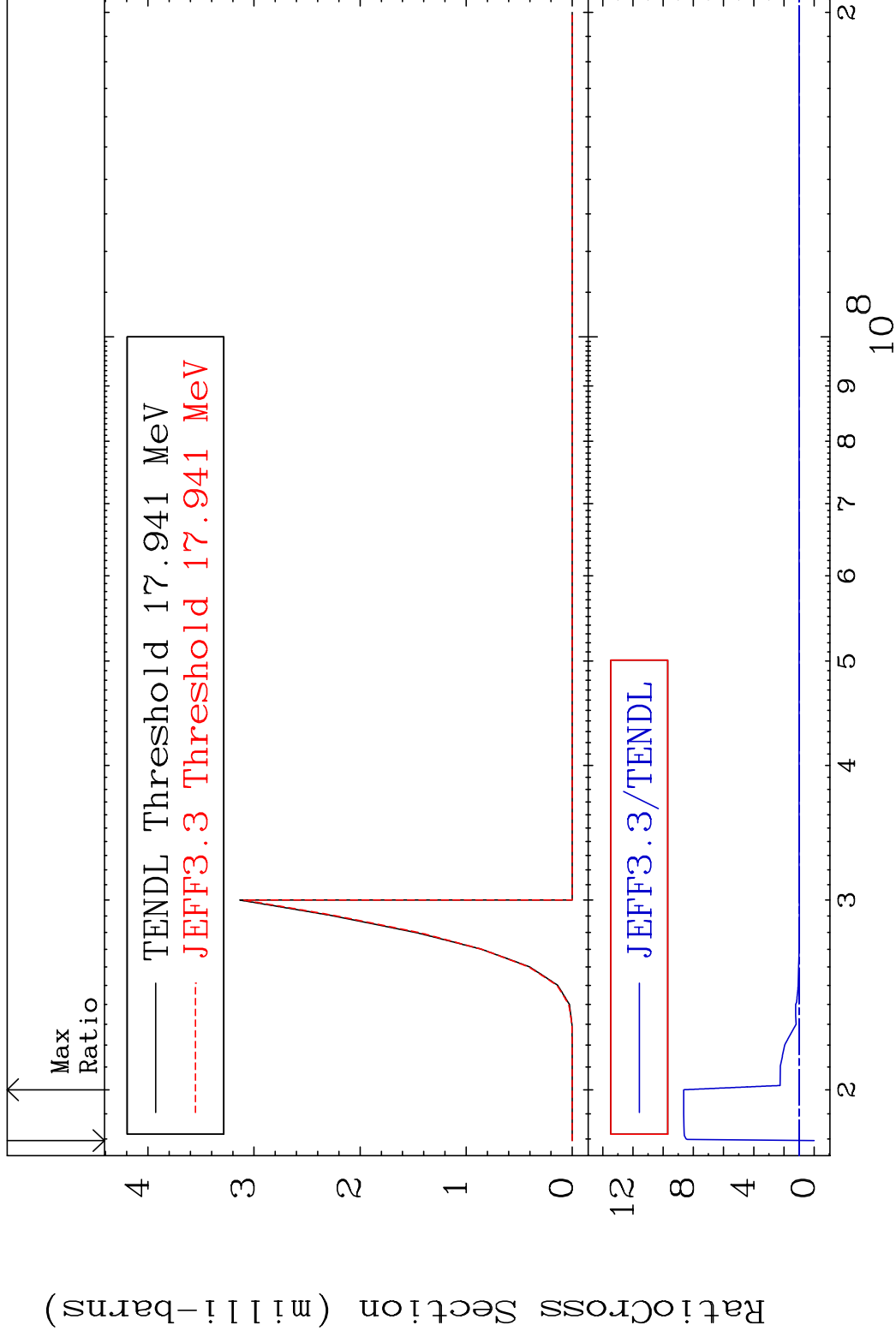
50-Sn-124

MAT 5061

(n, n') d

50-Sn-124

Cross Section -100.0 To 764.4 %

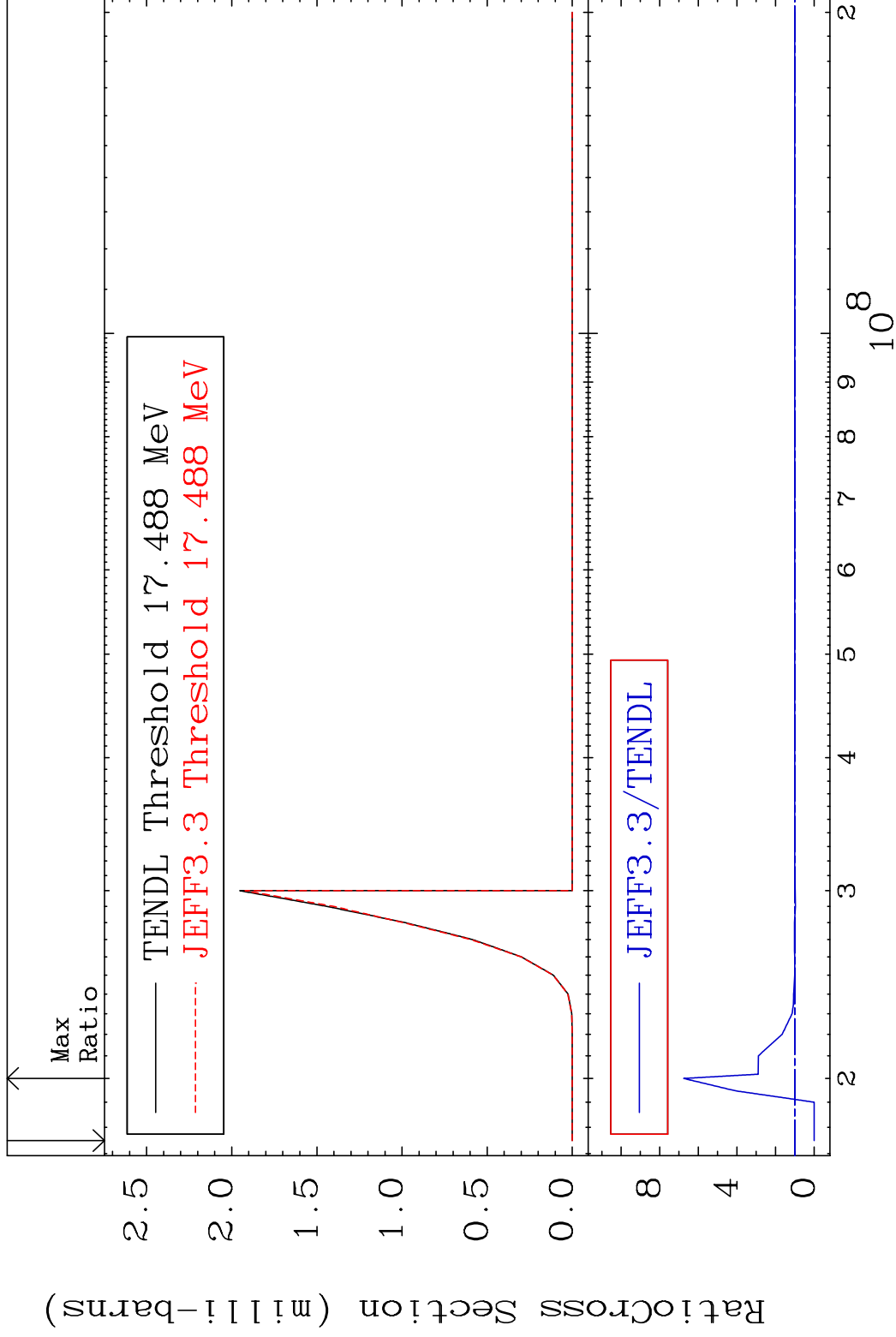


MAT 5061

(n, n') t

50-Sn-124

Cross Section -100.0 To 575.8 %



12

Incident Energy (eV)

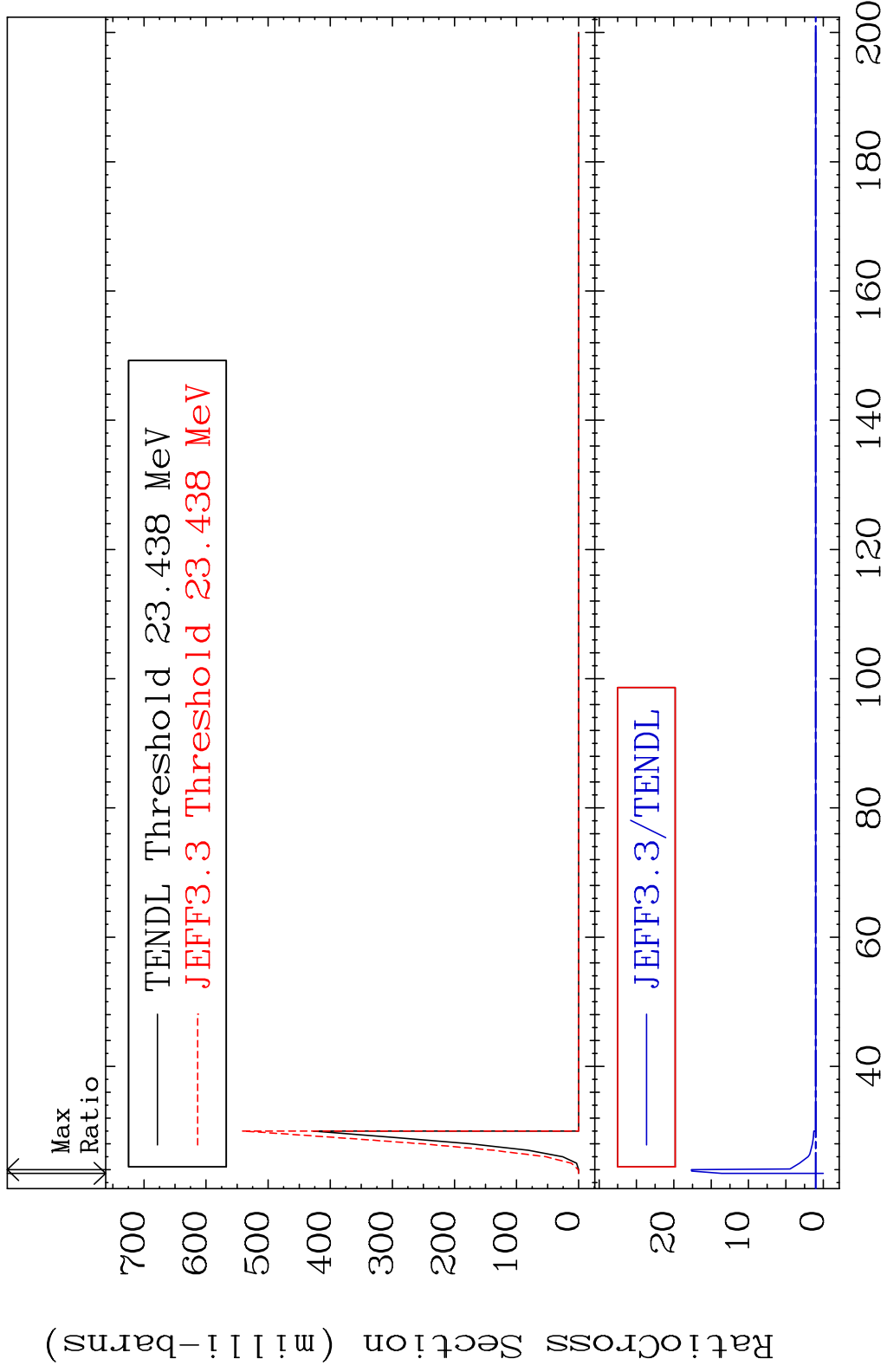
50-Sn-124

MAT 5061

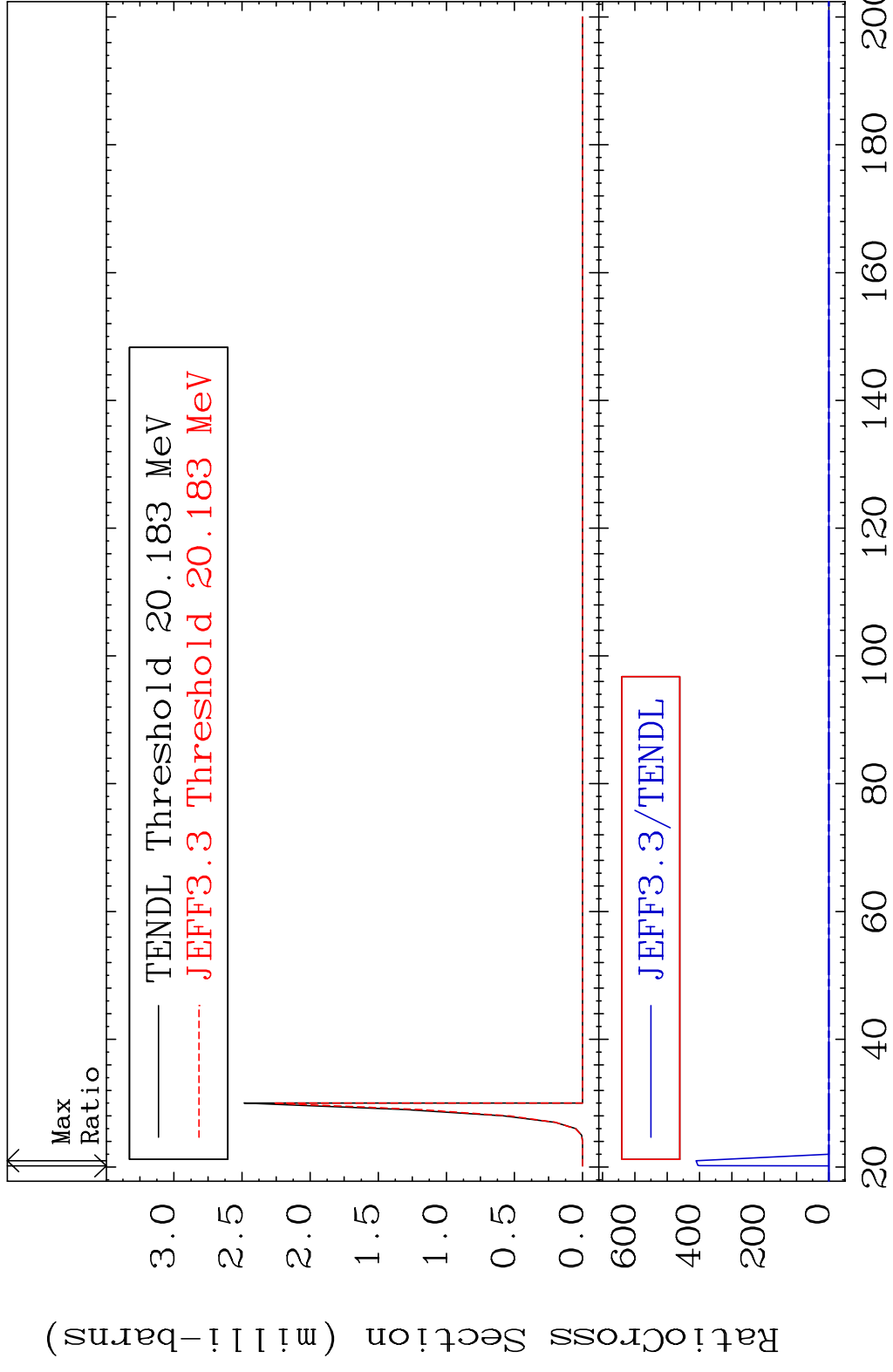
(n,4n)

50-Sn-124

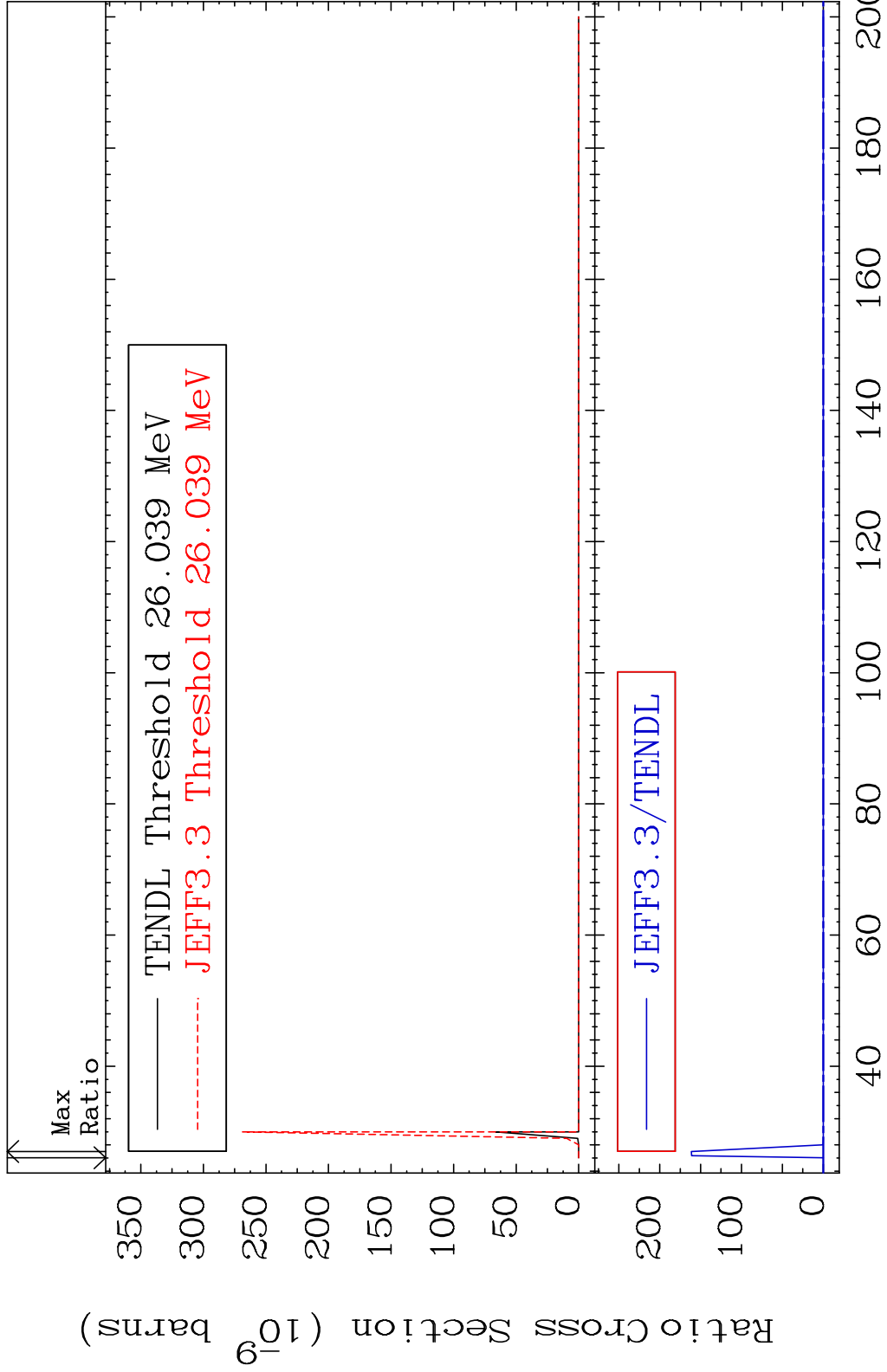
Cross Section -100.0 To 1666. %



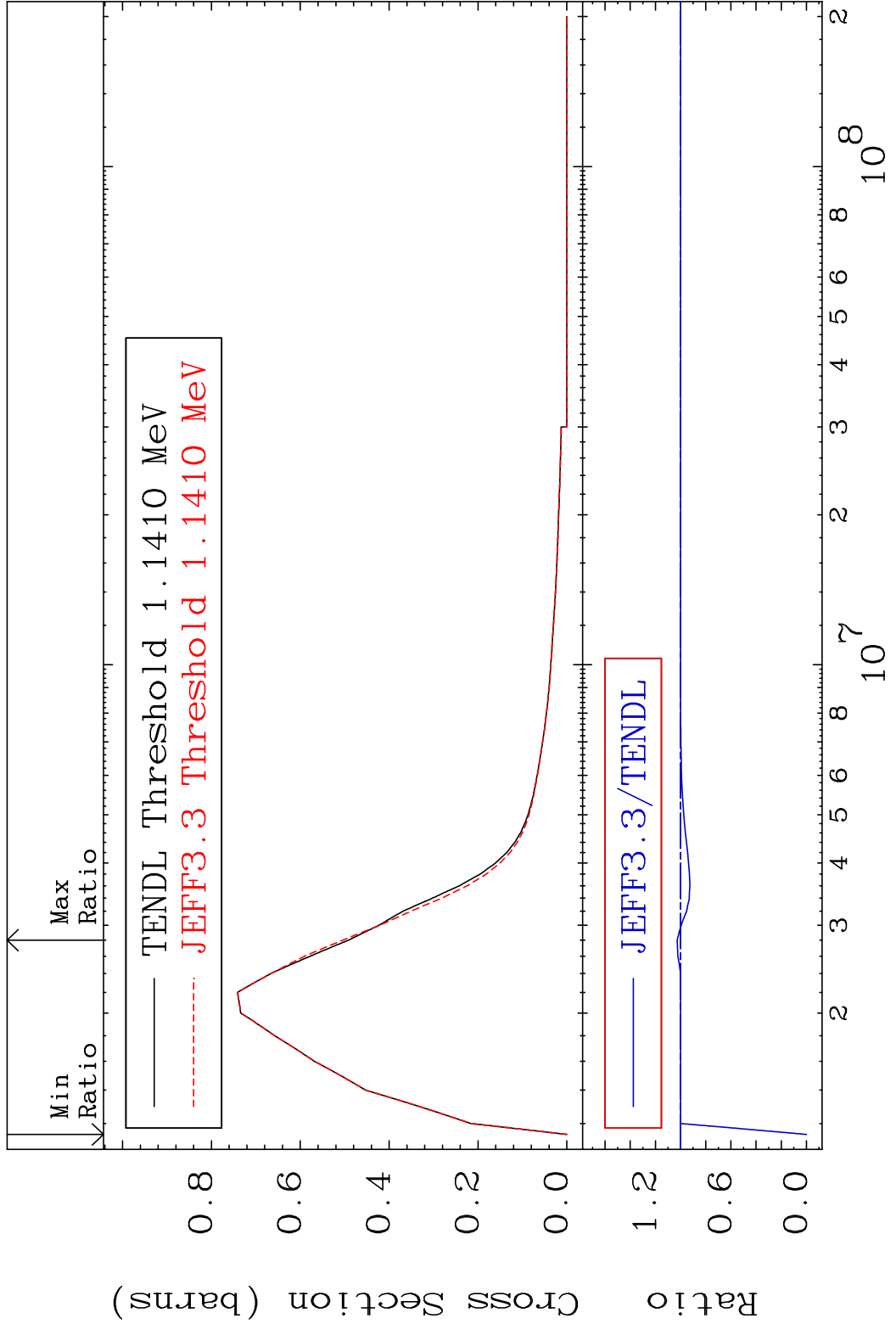
MAT 5061 (n,2n) p 50-Sn-124
 Cross Section -100.0 To 9999. %



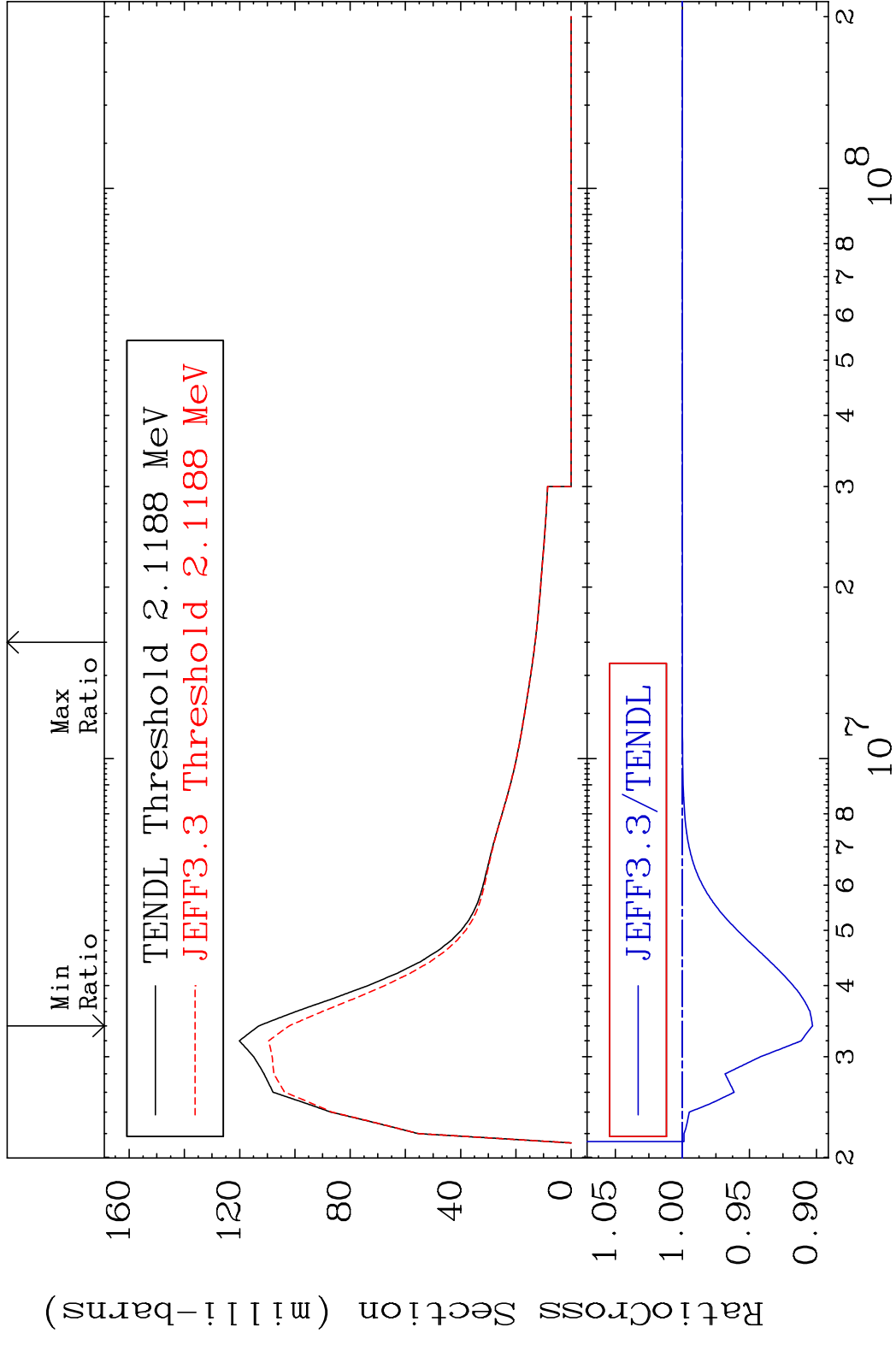
MAT 5061 (n,3n) p 50-Sn-124
 Cross Section -100.0 To 9999. %



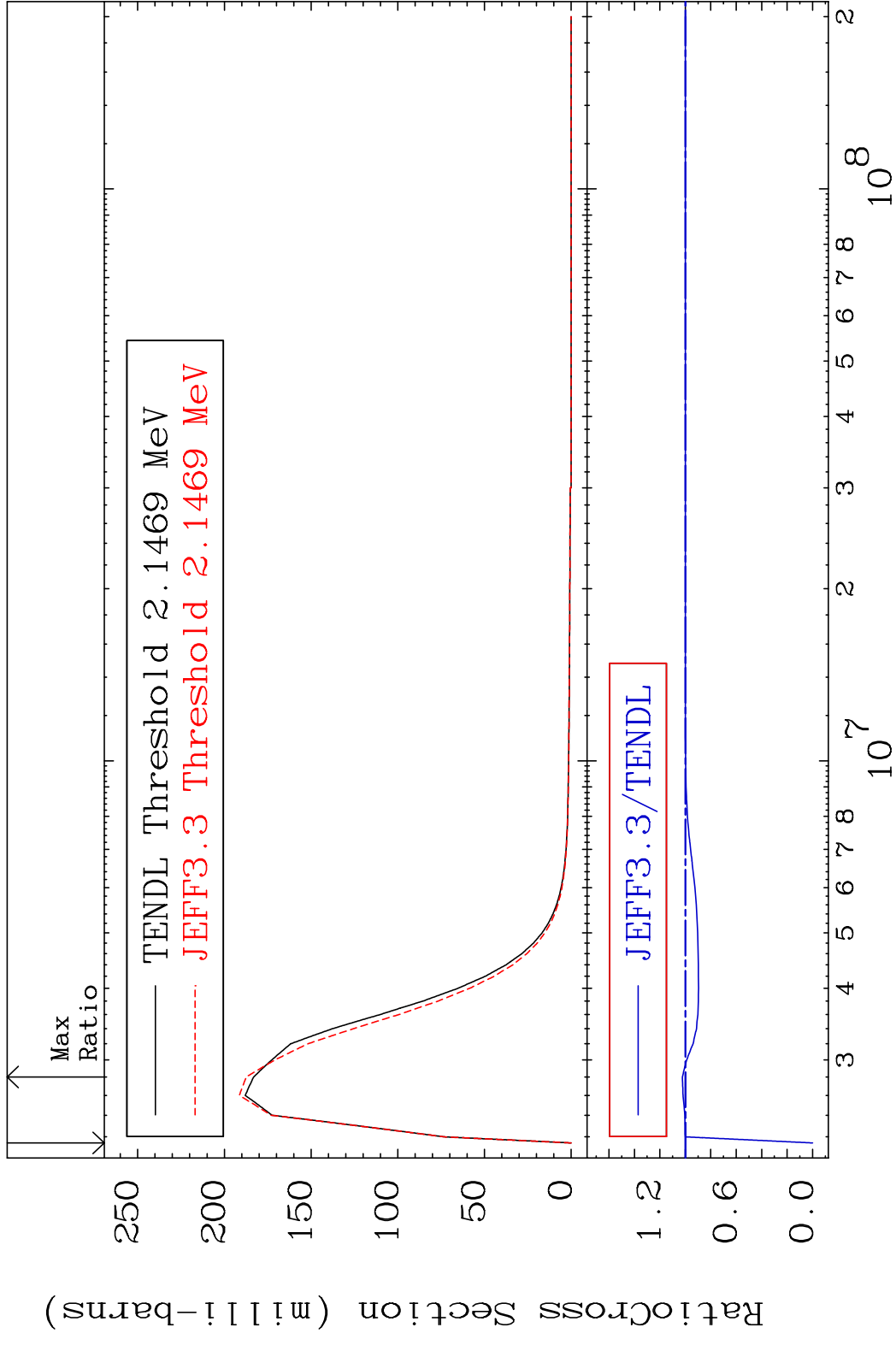
MAT 5061 MT= 51 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 2.679 %



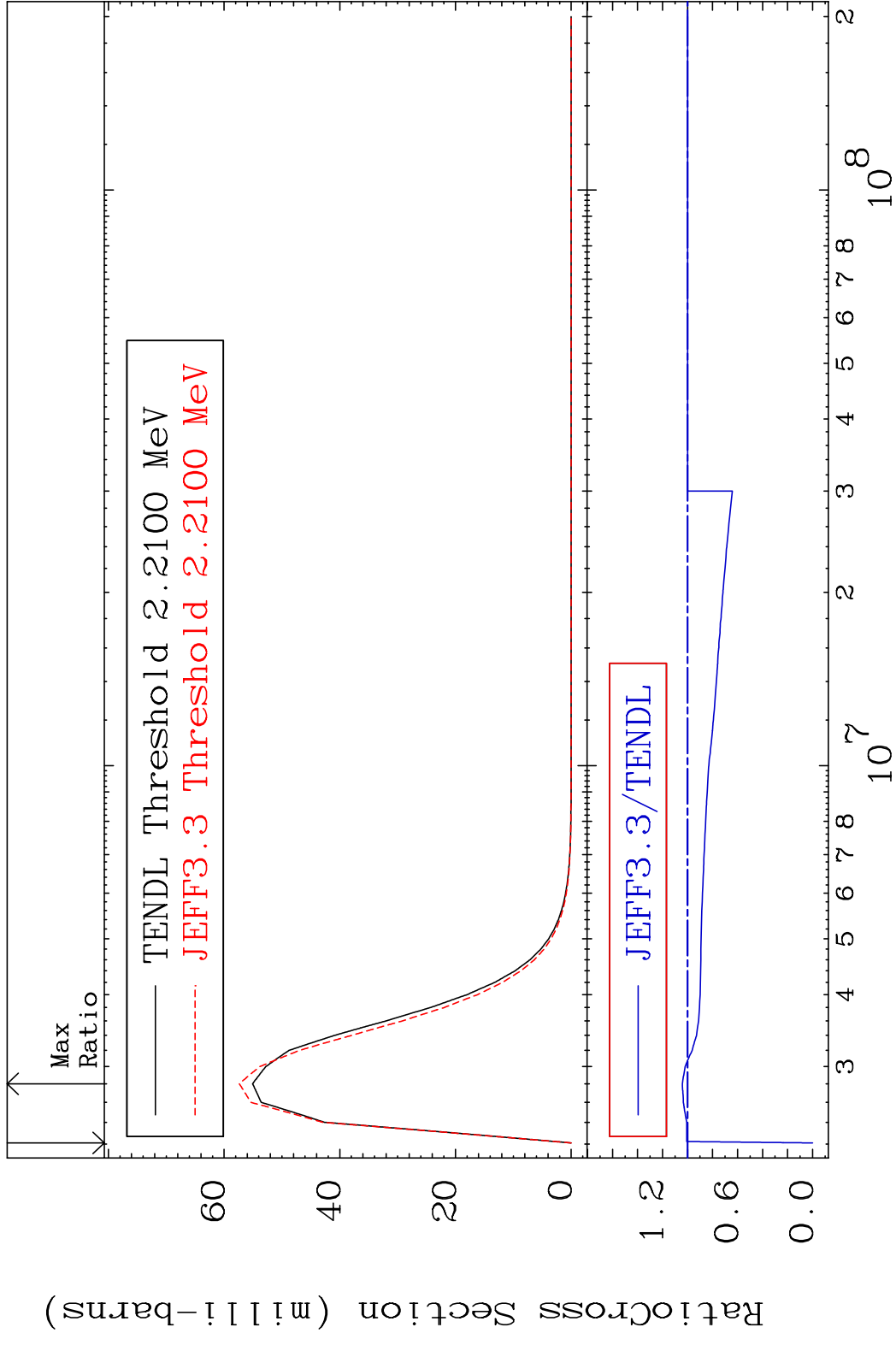
MAT 5061 MT= 52 (n,n') Level 50-Sn-124
 Cross Section -9.708 To 0.000 %



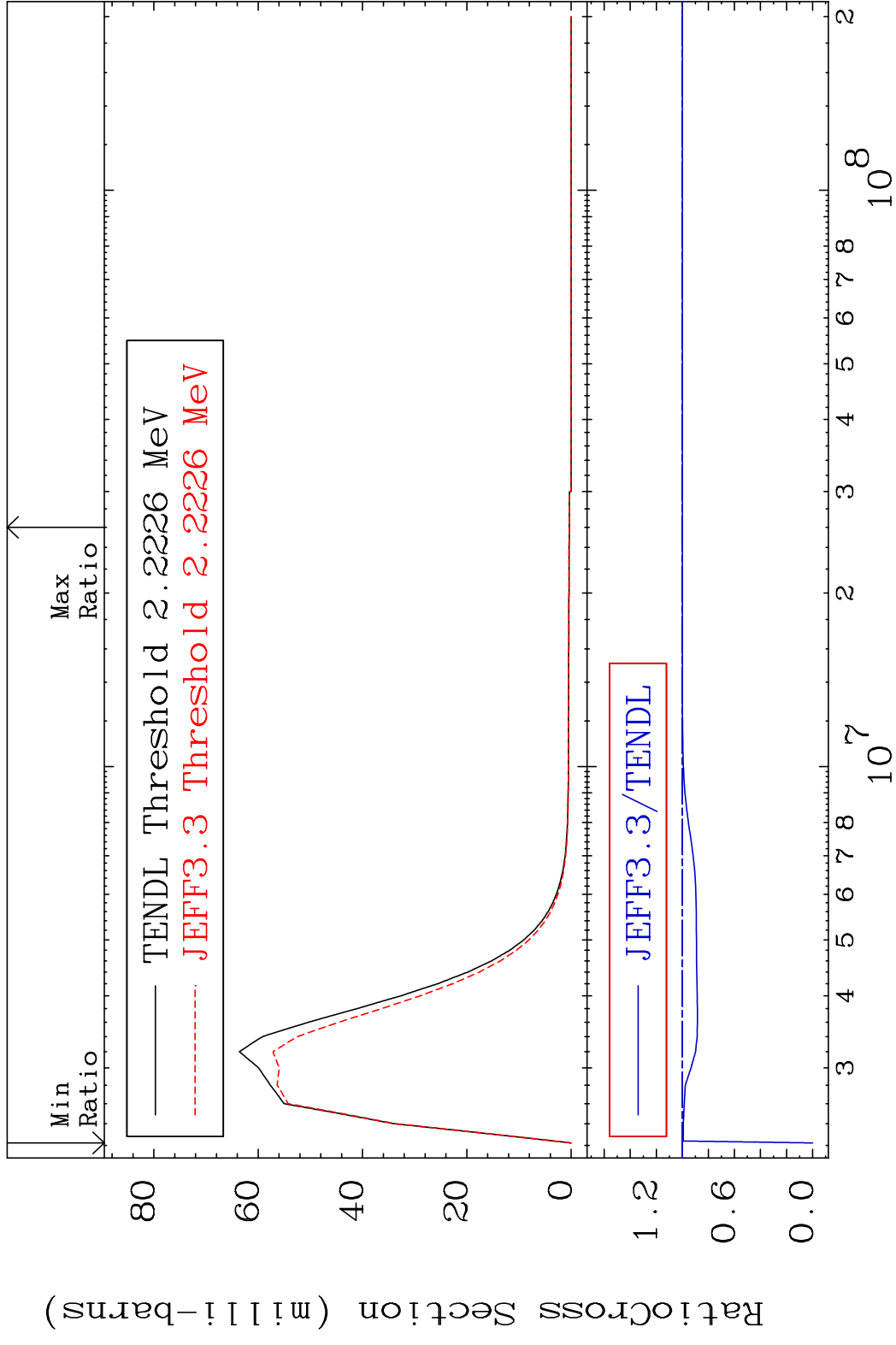
MAT 5061 MT= 53 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 2.314 %



MAT 5061 MT= 54 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 4.161 %

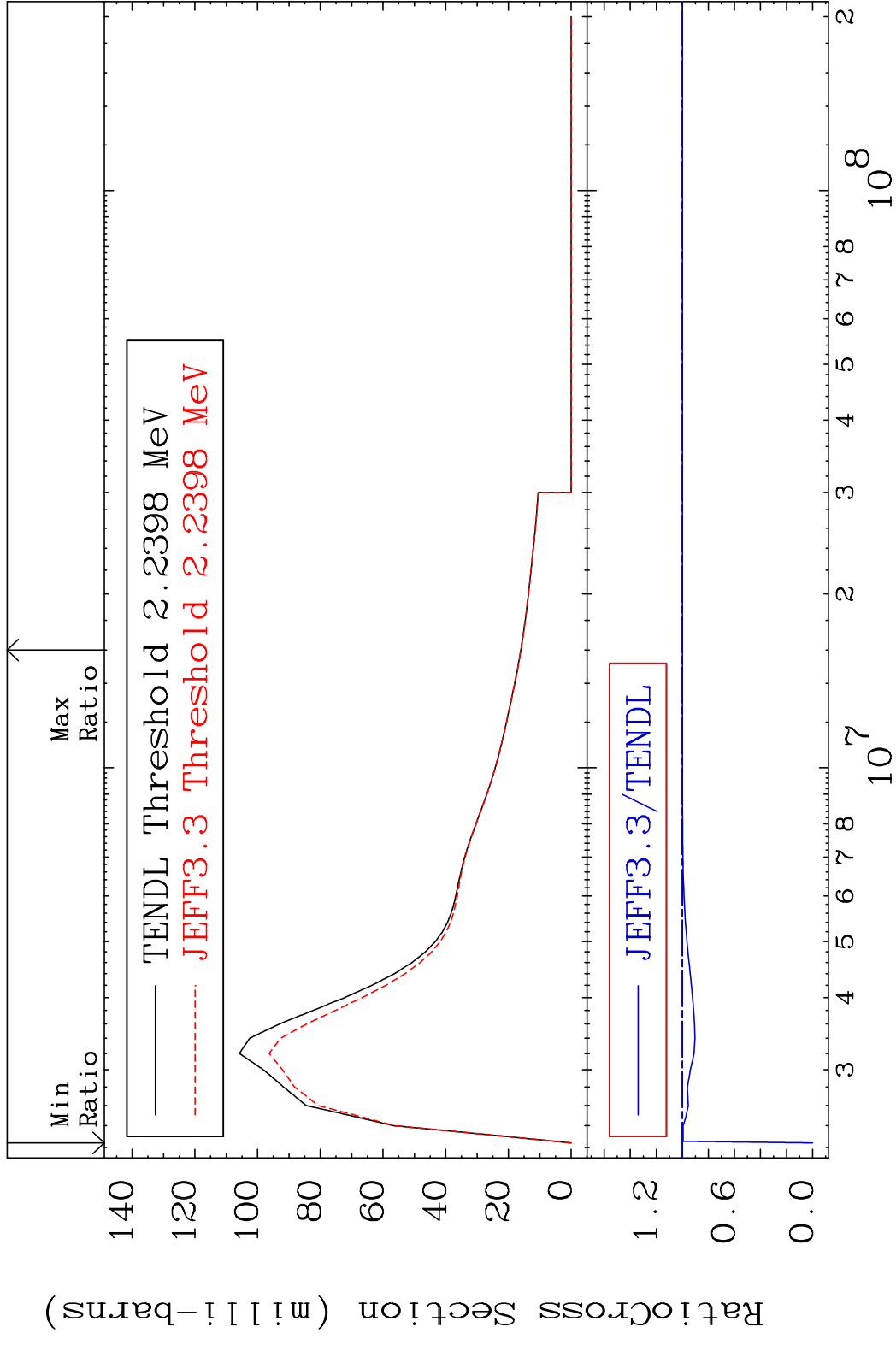


MAT 5061 MT= 55 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 0.000 %

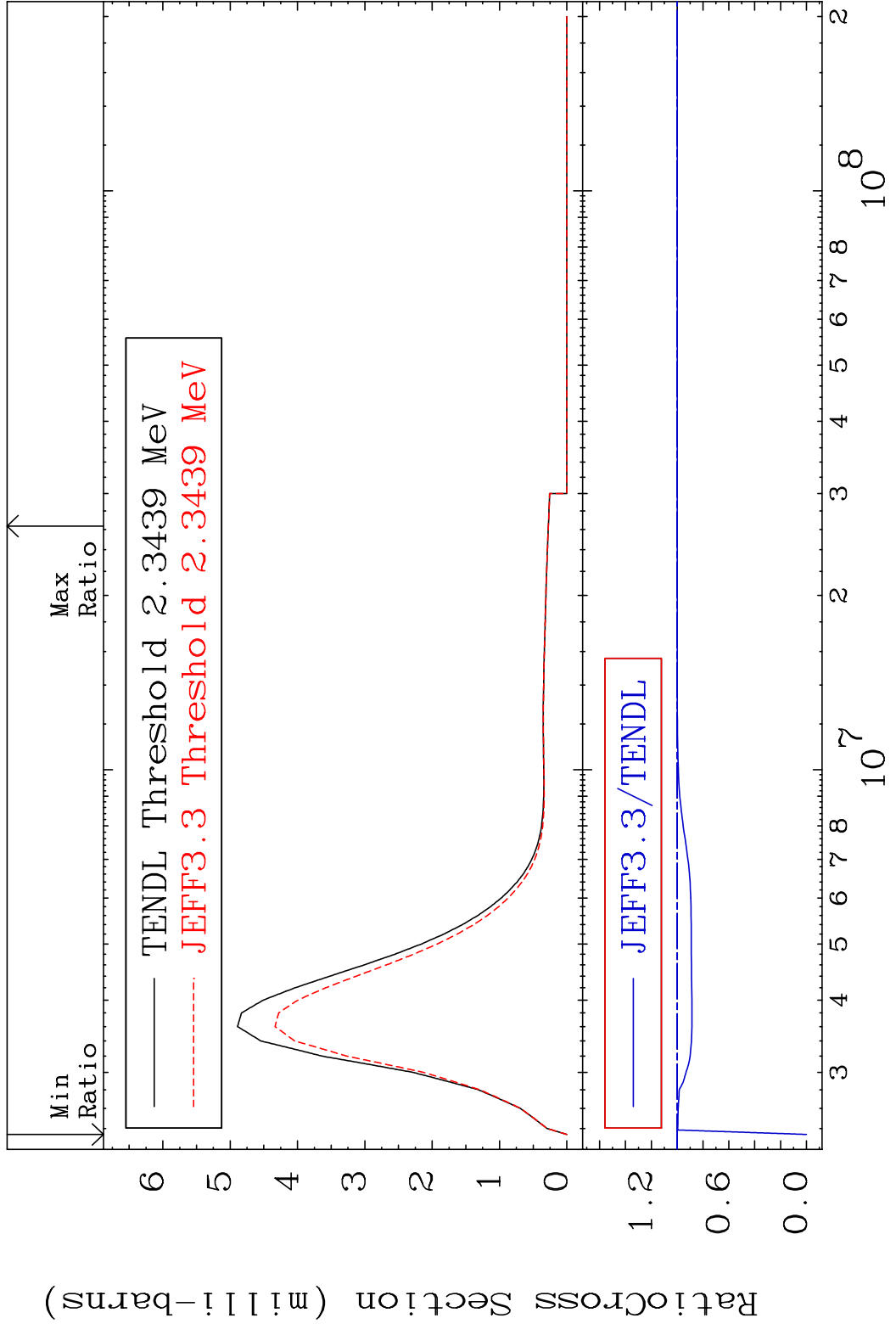


20 50-Sn-124

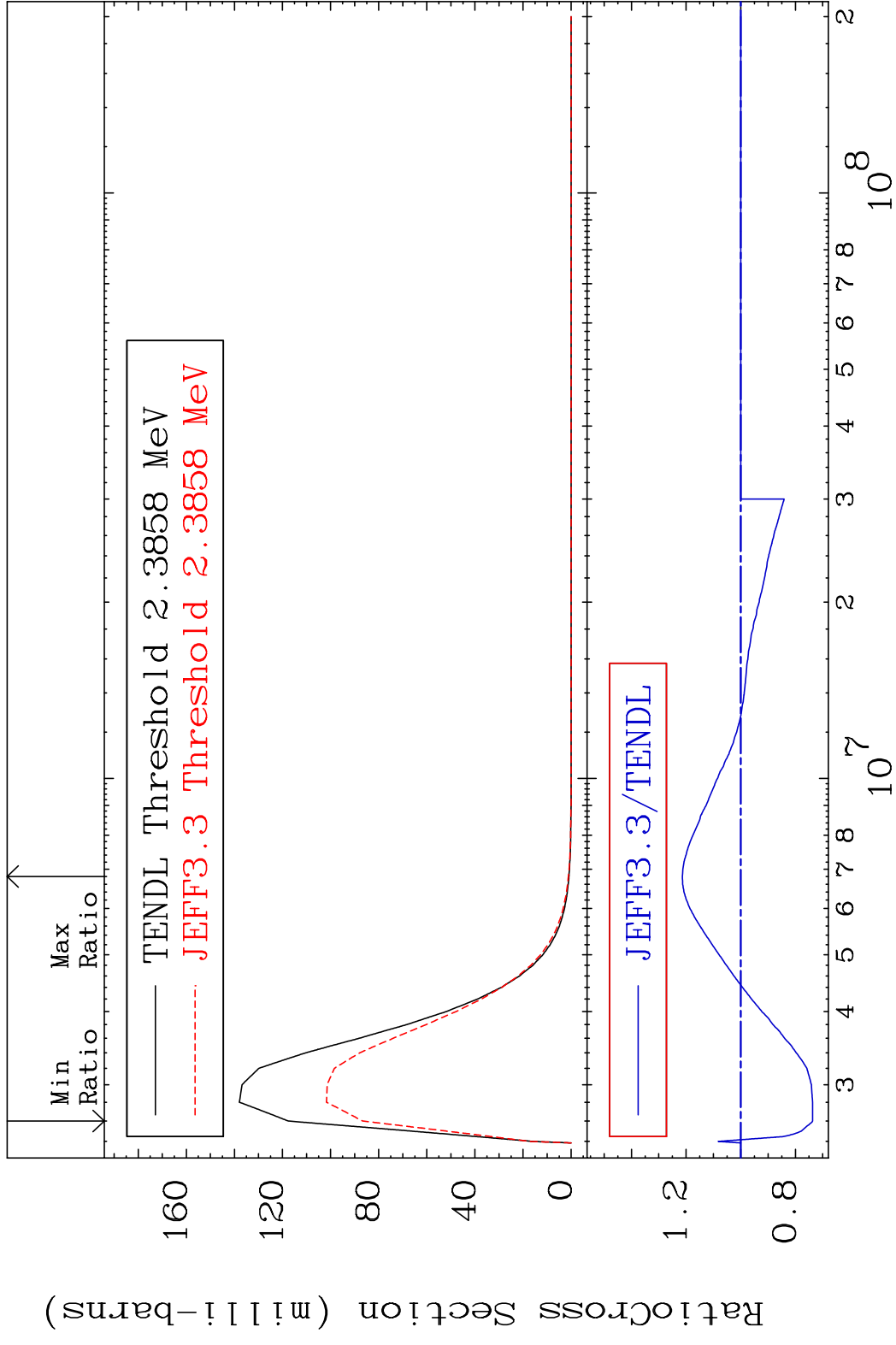
MAT 5061 MT= 56 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 0.000 %



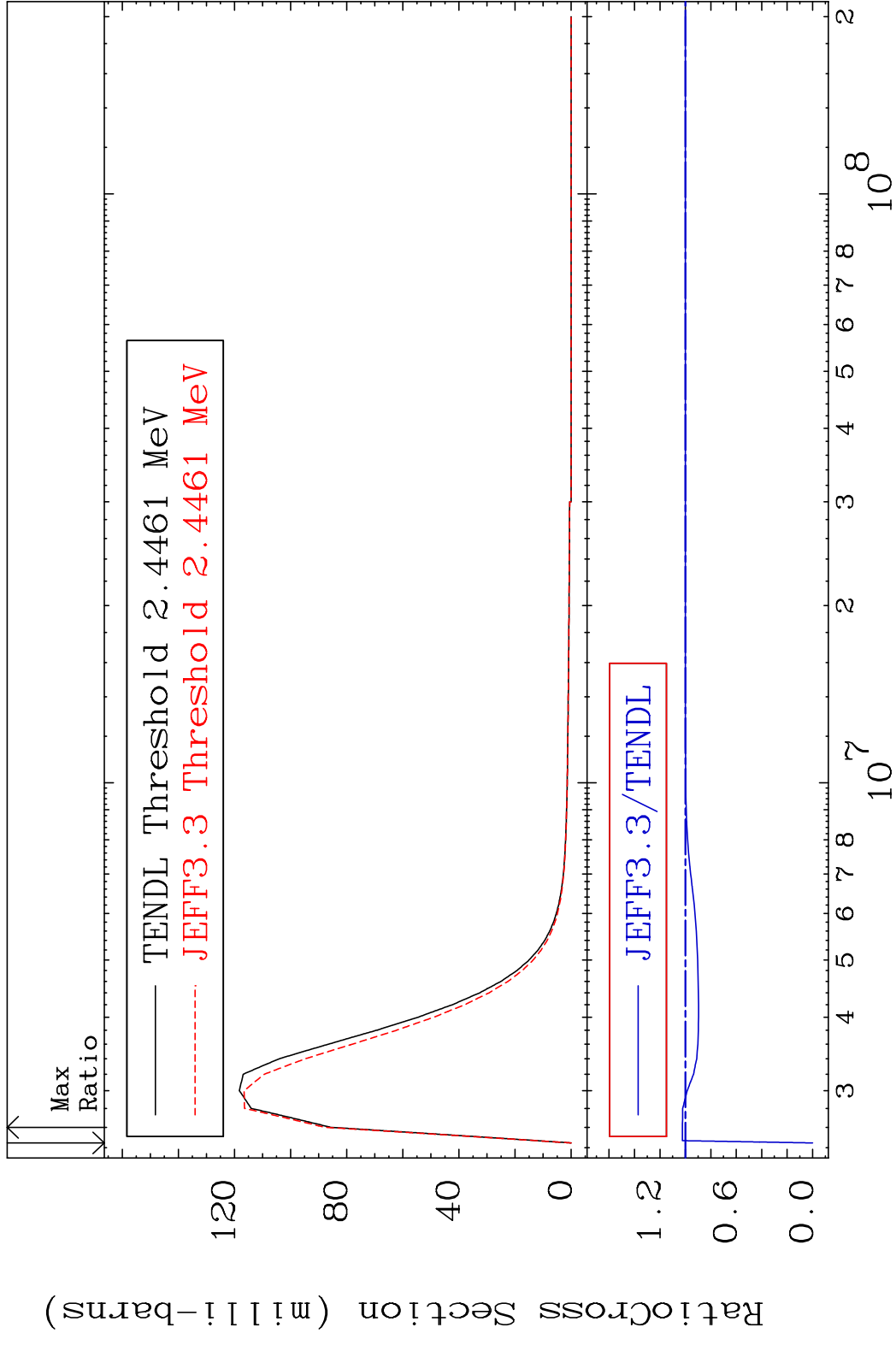
MAT 5061 MT= 57 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 0.000 %



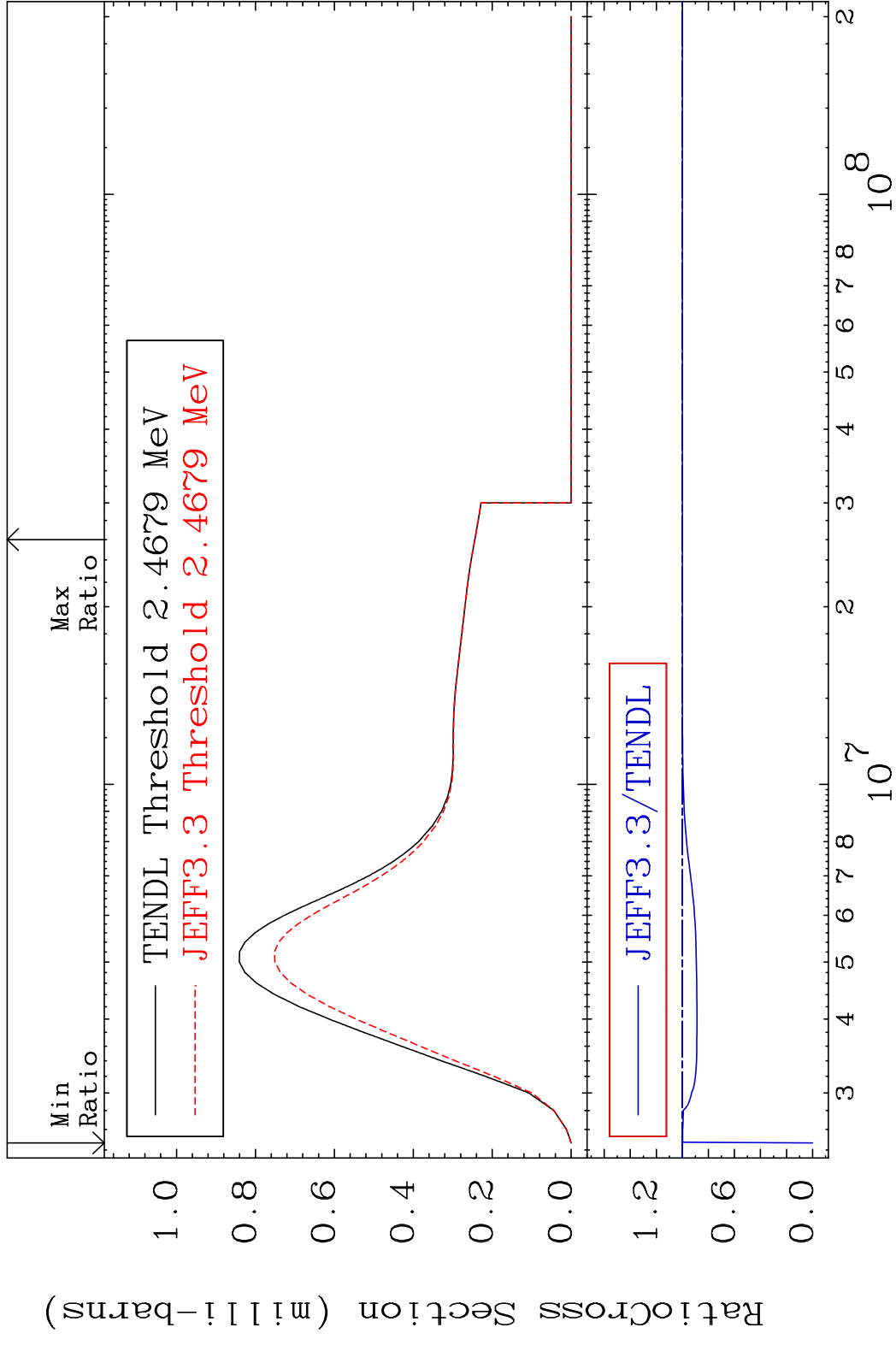
MAT 5061 MT= 58 (n, n') Level 50-Sn-124
 Cross Section -26.28 To 21.37 %



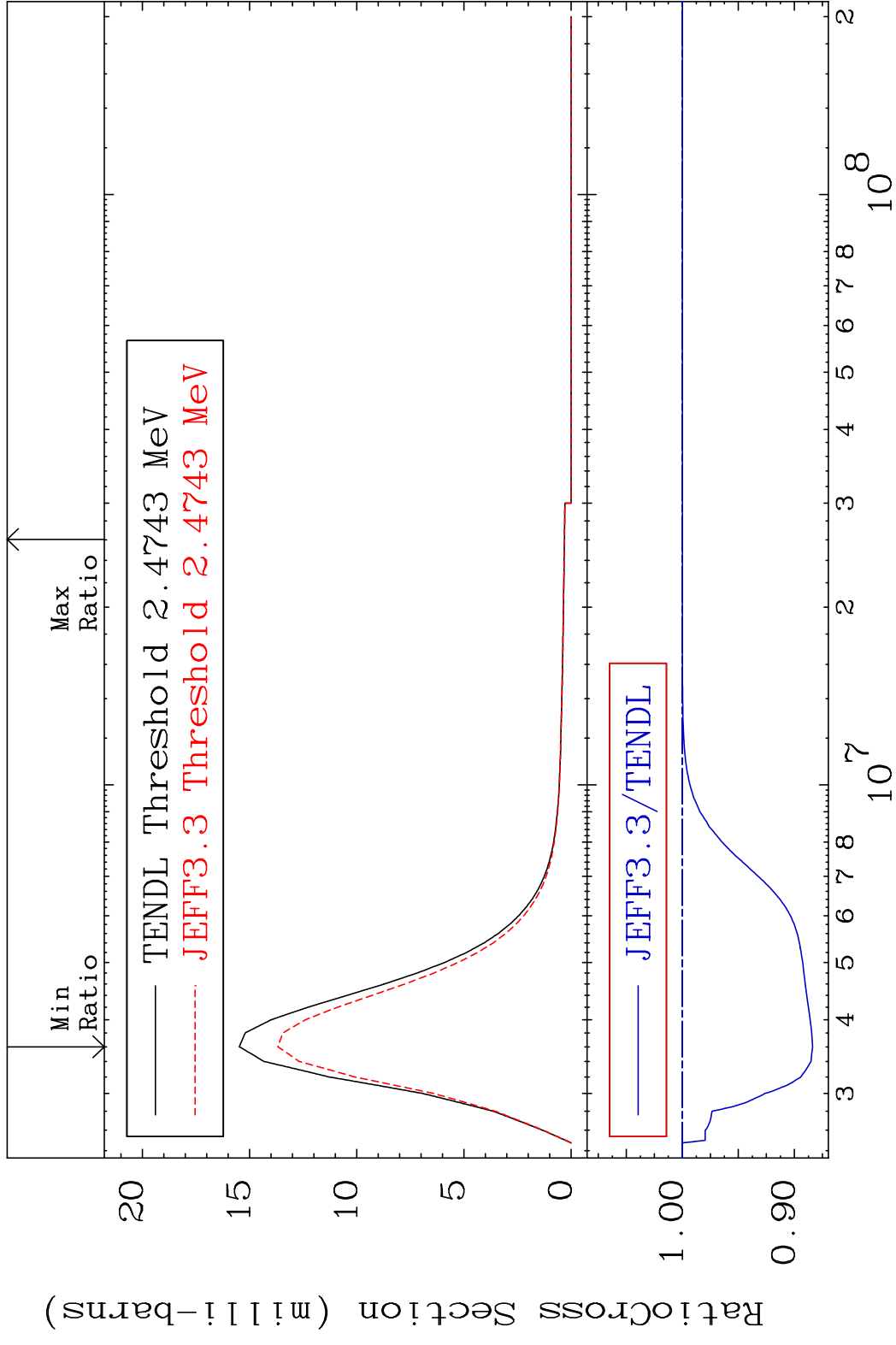
MAT 5061 MT= 59 (n,n') Level 50-Sn-124
 Cross Section -100.0 To 2.368 %



MAT 5061 MT= 60 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 0.000 %

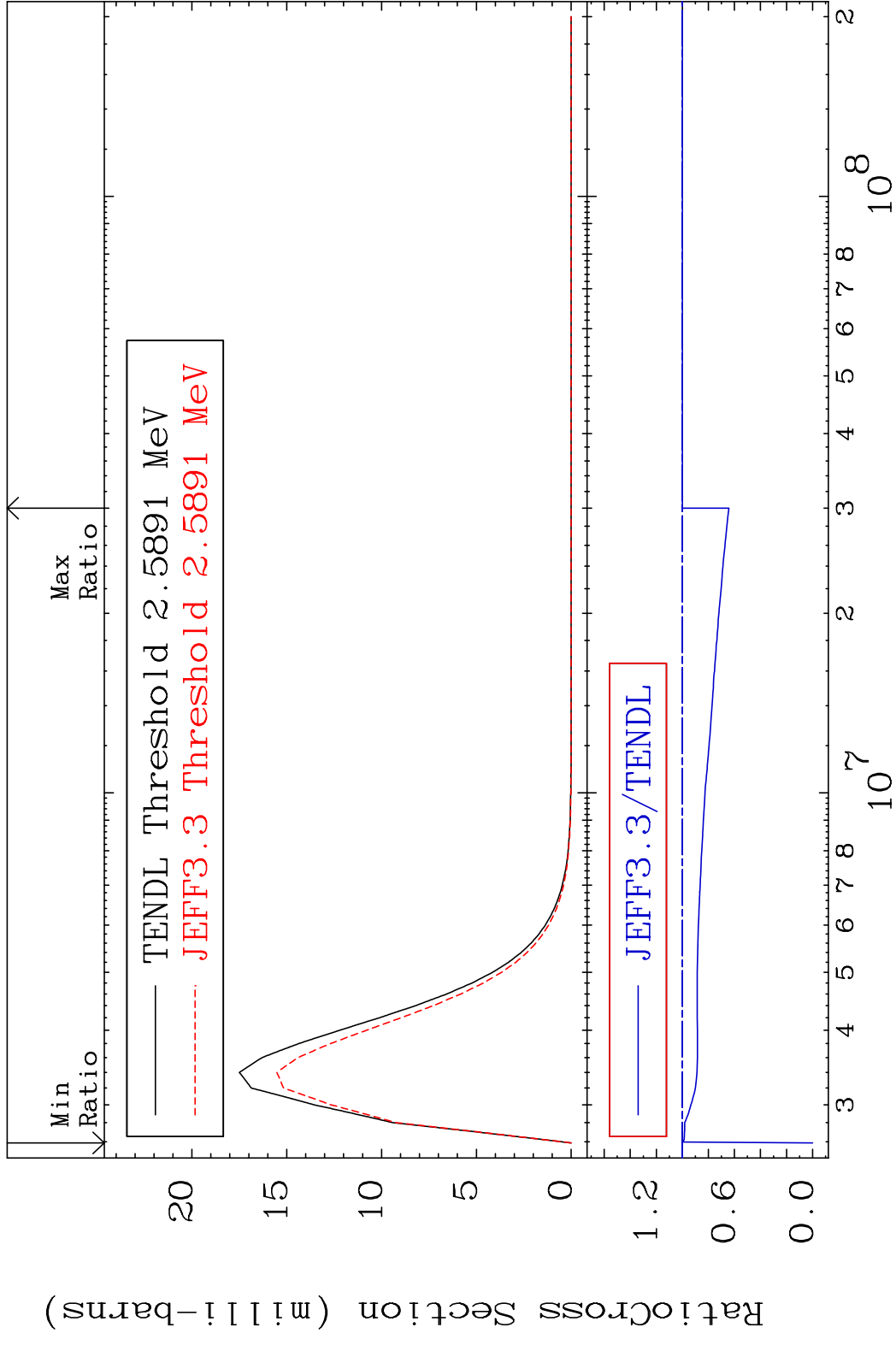


MAT 5061 MT= 61 (n, n') Level 50-Sn-124
 Cross Section -11.62 To 0.000 %



26 Incident Energy (eV) 50-Sn-124

MAT 5061 MT= 62 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 0.000 %

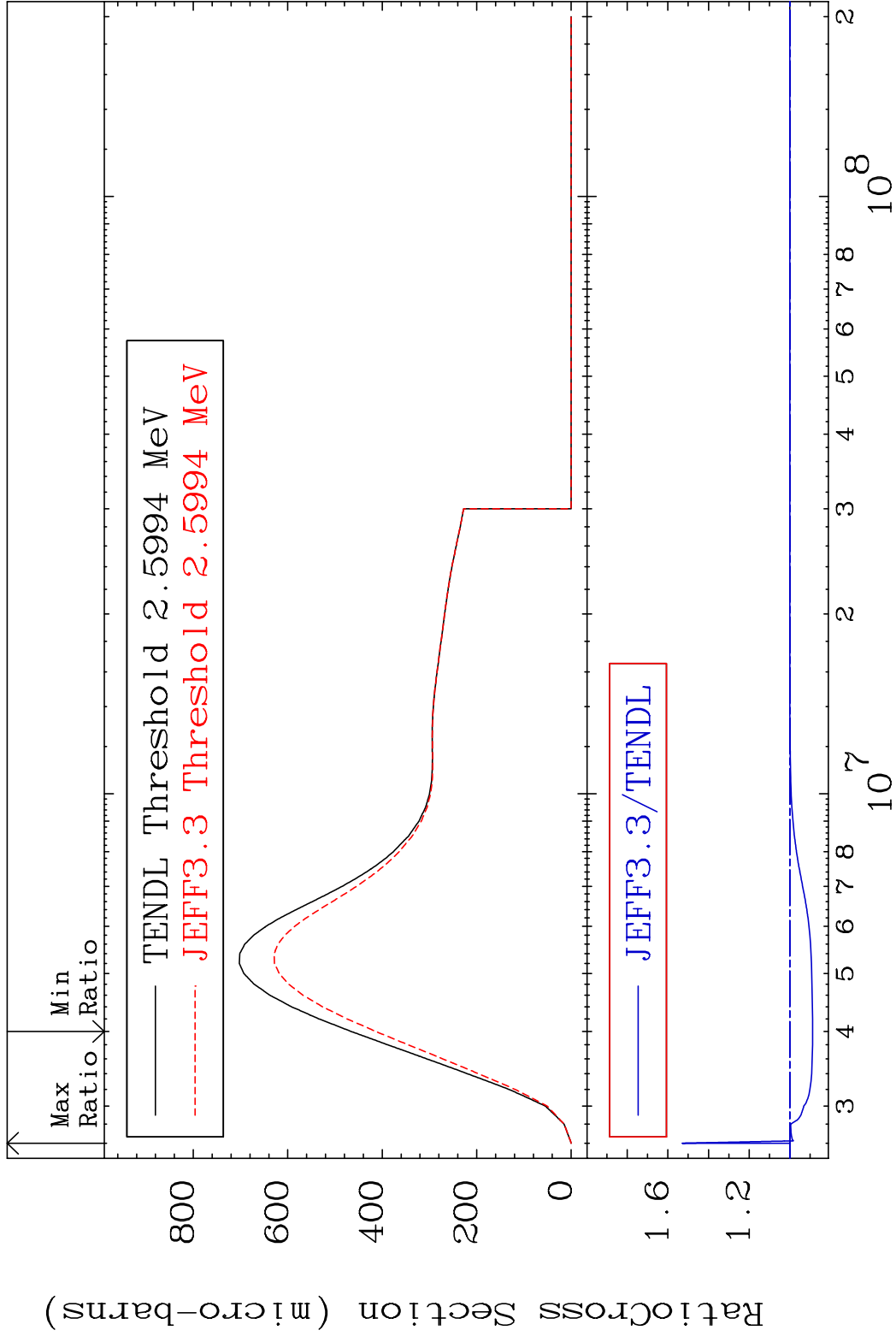


MAT 5061

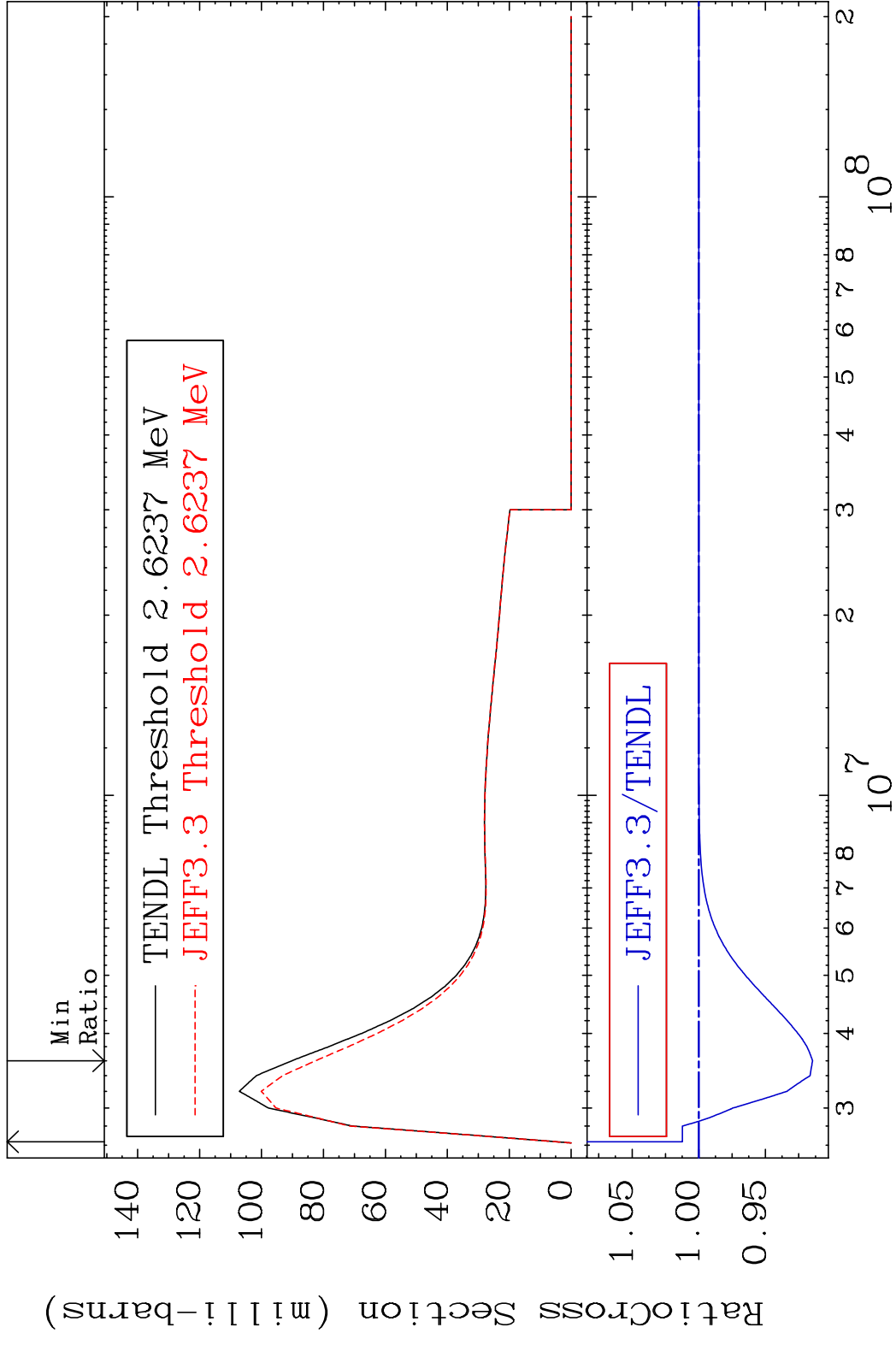
MT= 63 (n, n') Level

50-Sn-124

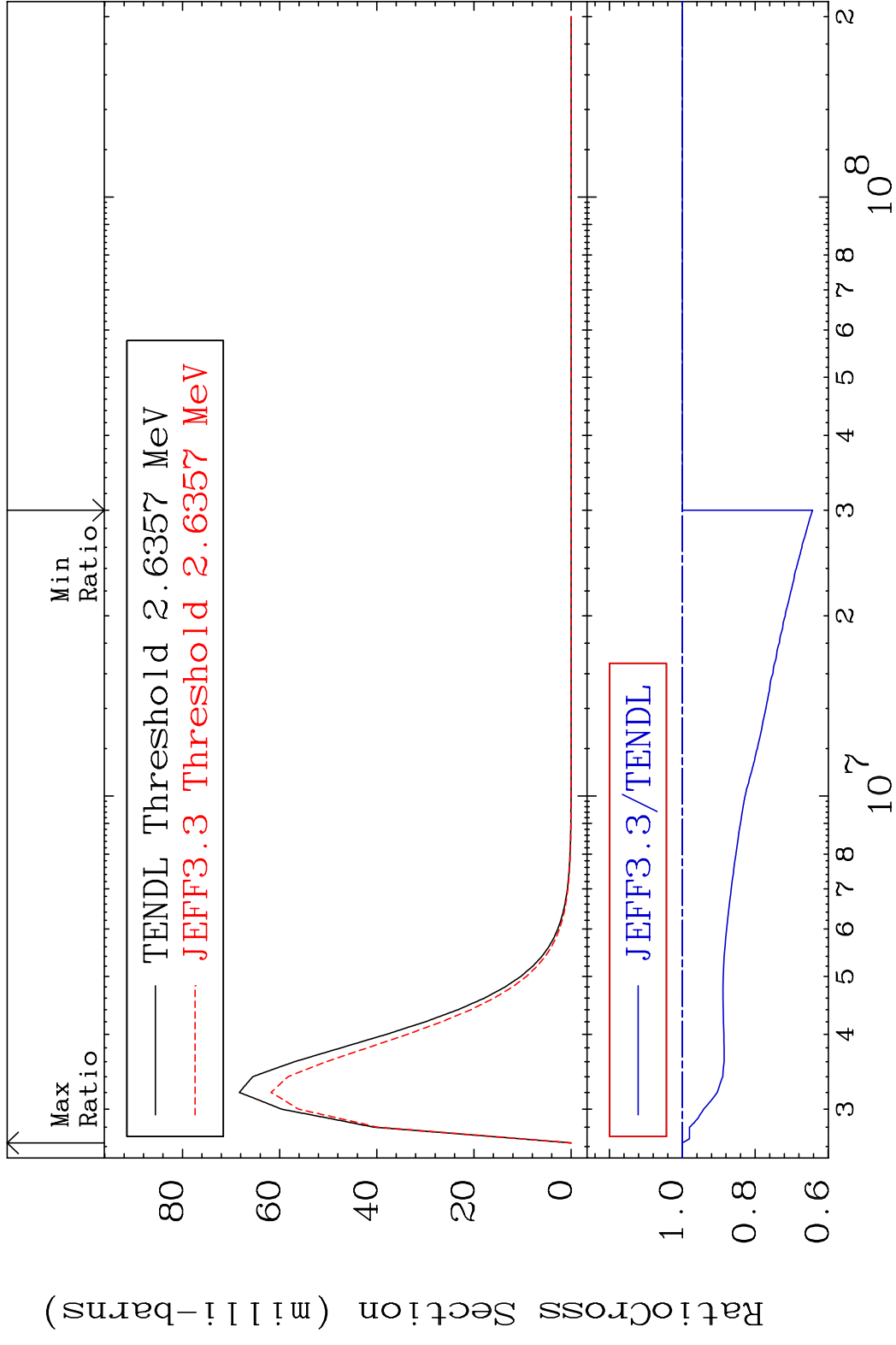
Cross Section -11.18 To 52.87 %



MAT 5061 MT= 64 (n, n') Level 50-Sn-124
 Cross Section -8.531 To 1.233 %

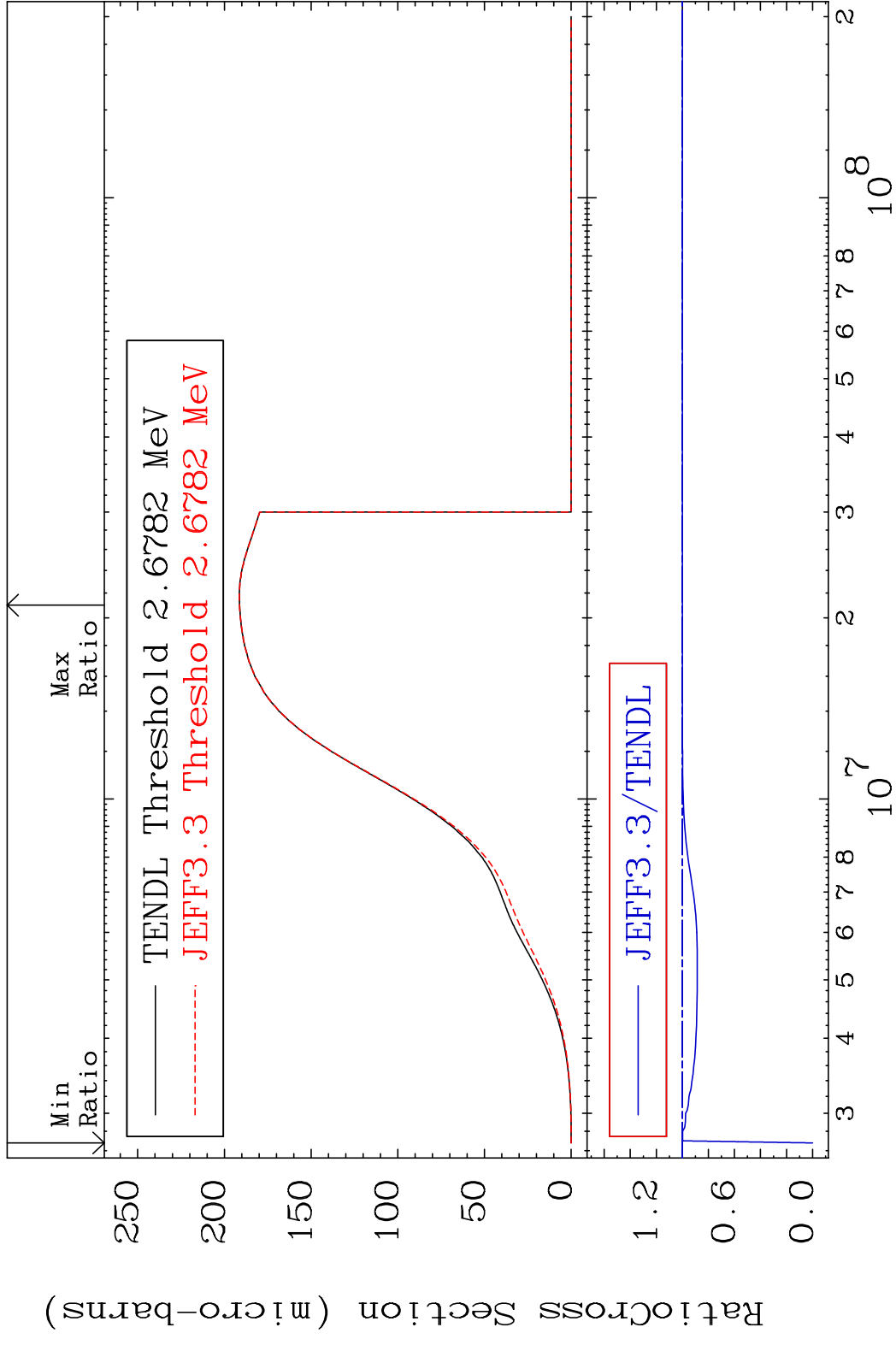


MAT 5061 MT= 65 (n, n') Level 50-Sn-124
 Cross Section -35.75 To 0.000 %

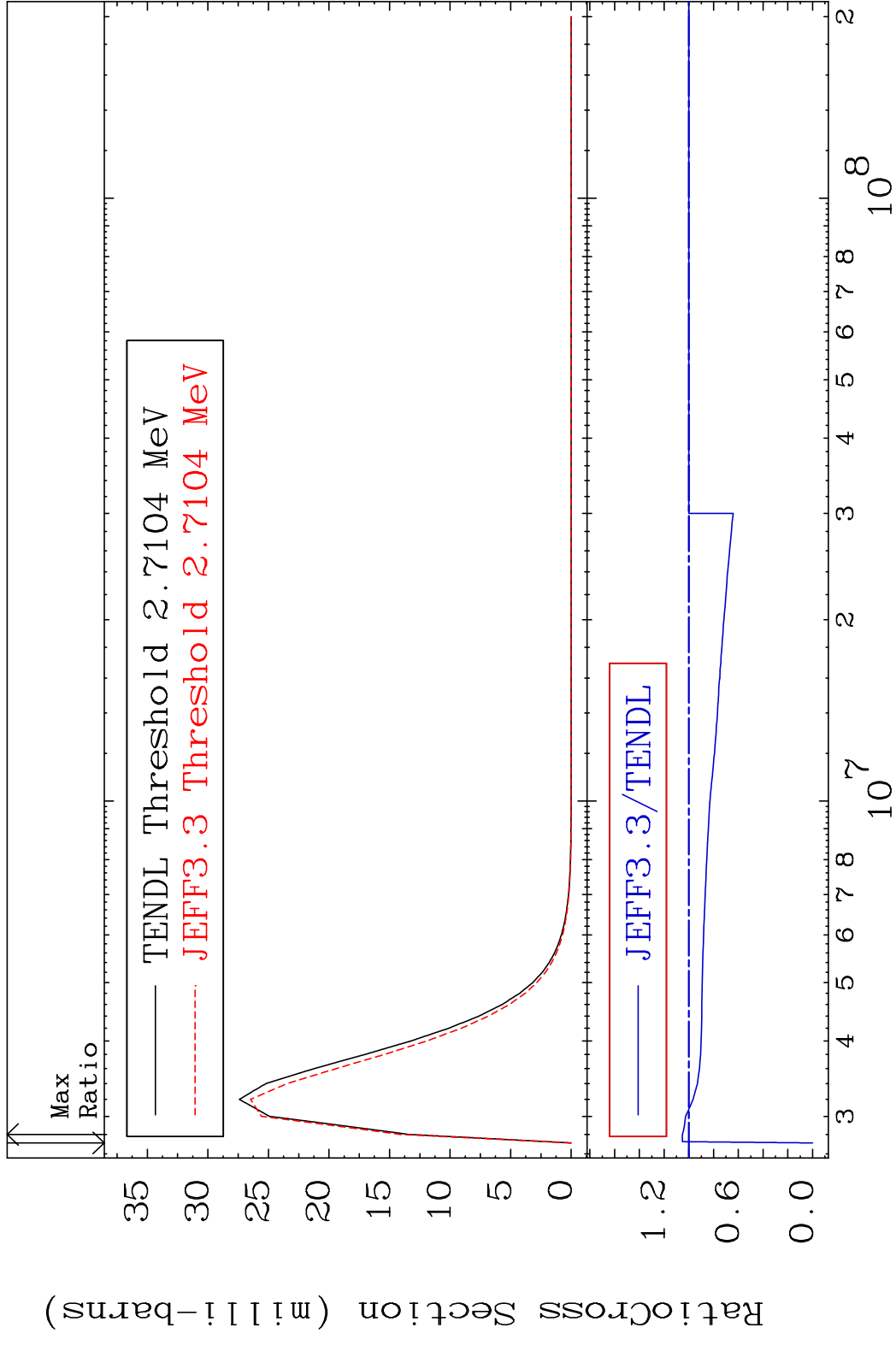


30 Incident Energy (eV) 50-Sn-124

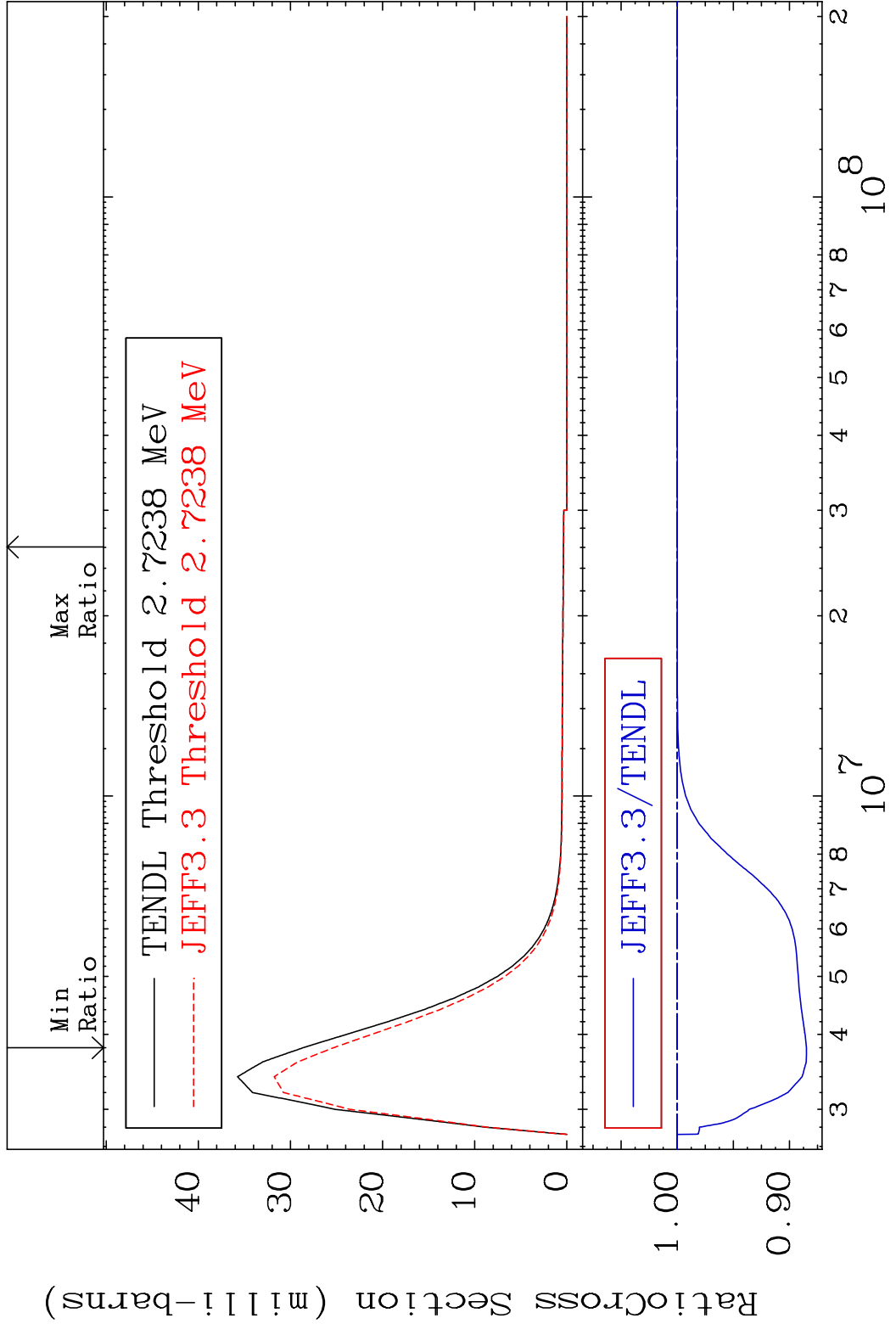
MAT 5061 MT= 66 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 0.000 %



MAT 5061 MT= 67 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 5.264 %

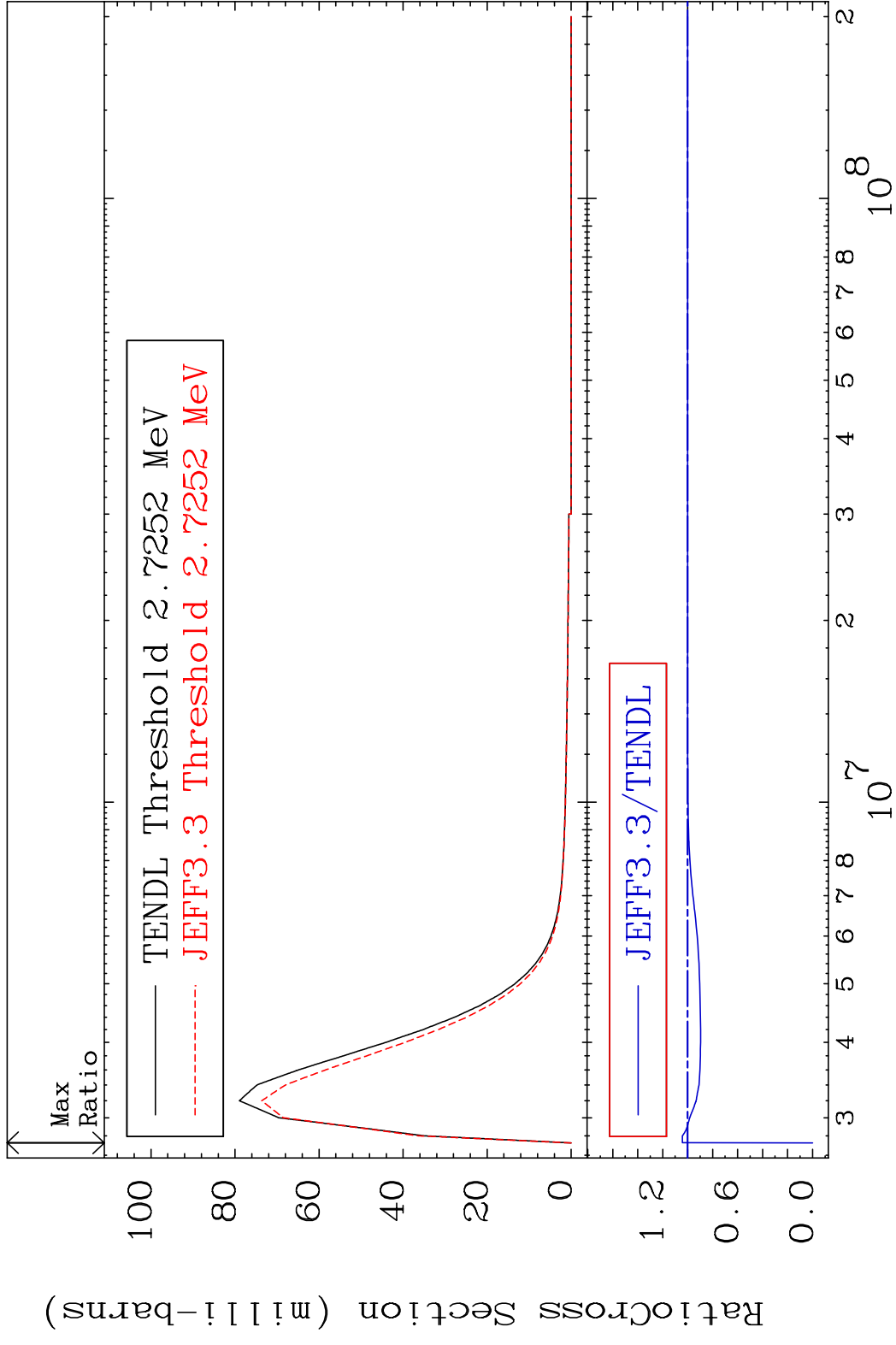


MAT 5061 MT= 68 (n, n') Level 50-Sn-124
 Cross Section -11.51 To 0.000 %

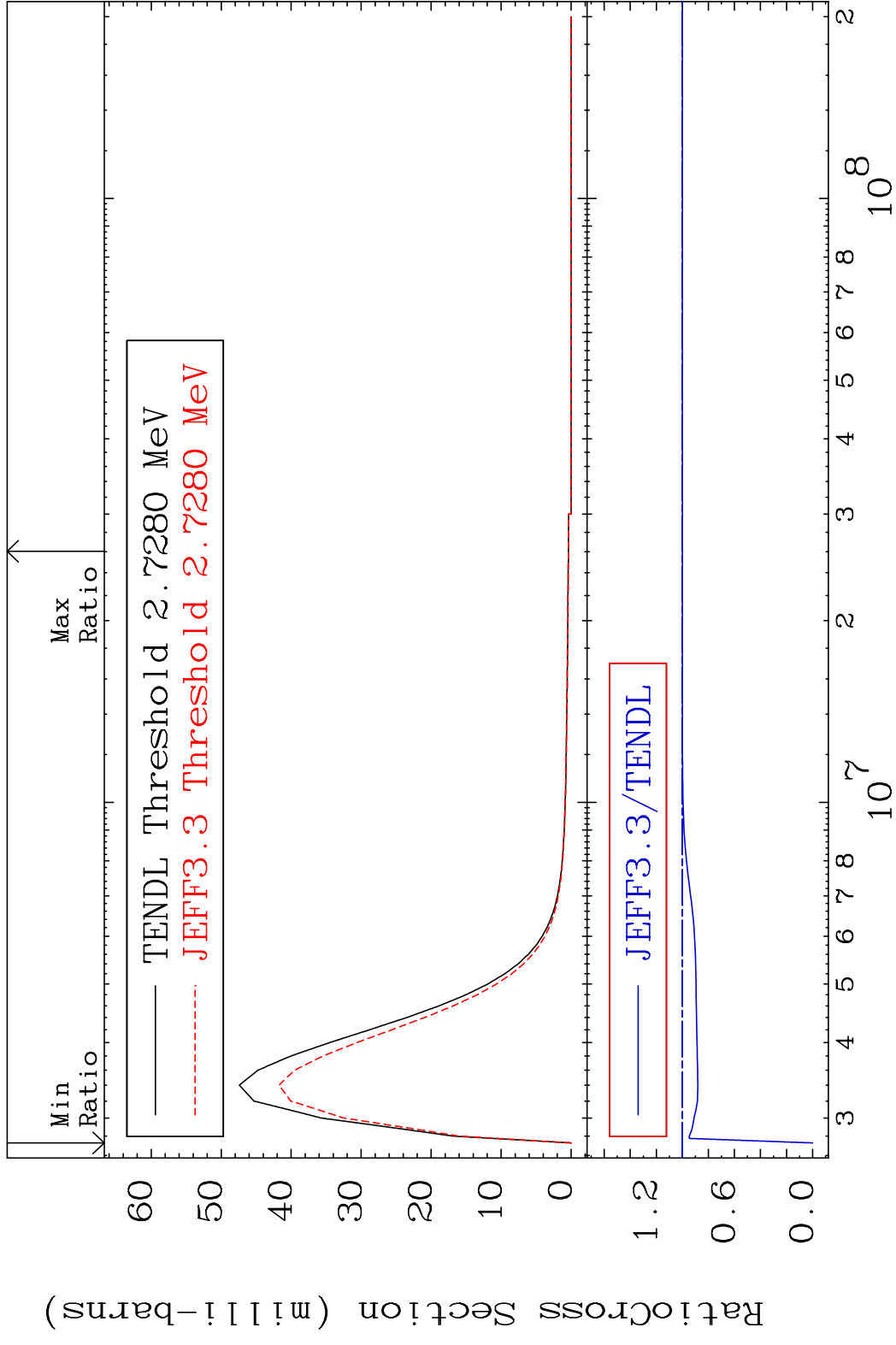


33 Incident Energy (eV) 50-Sn-124

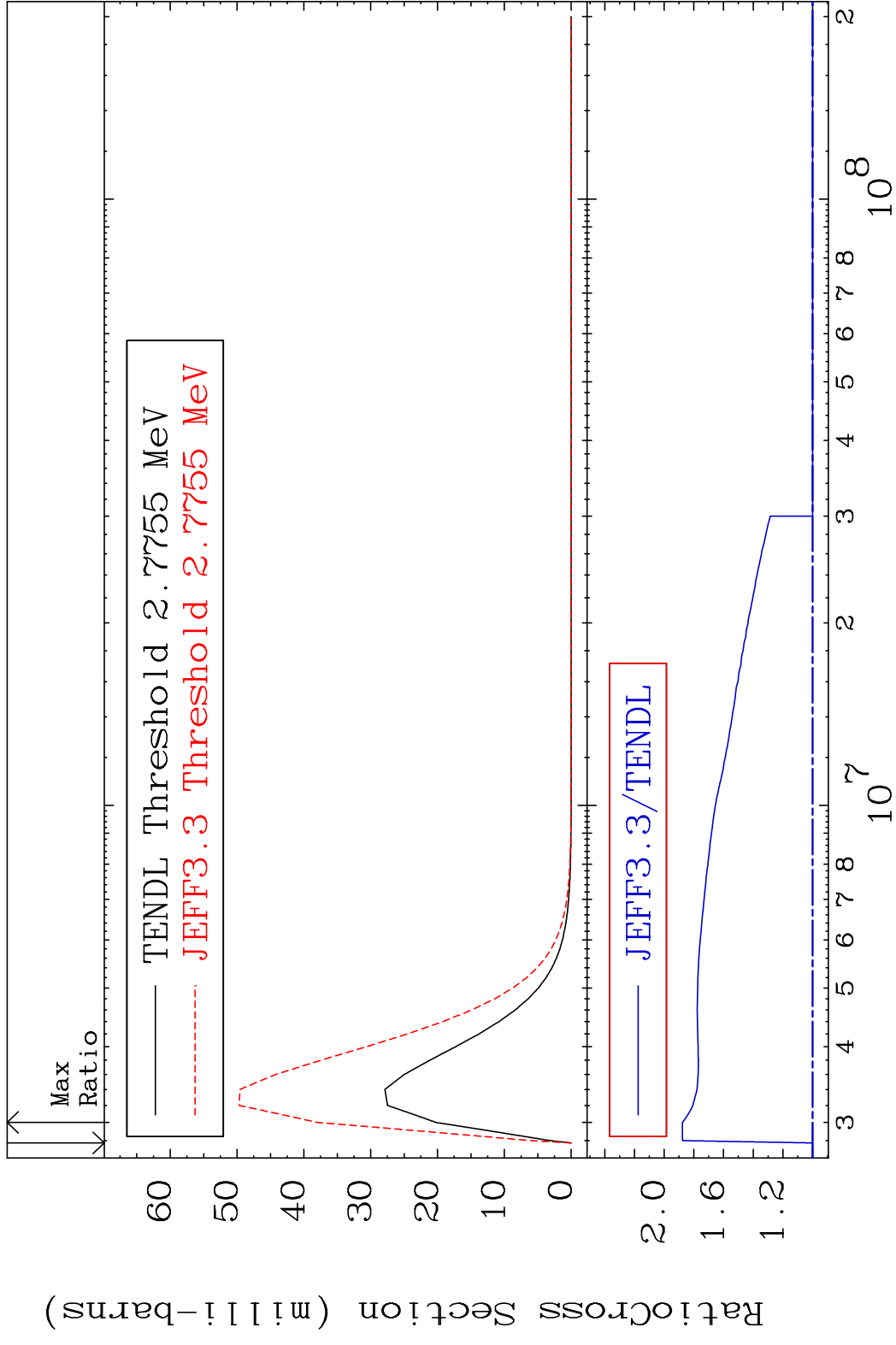
MAT 5061 MT= 69 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 4.258 %



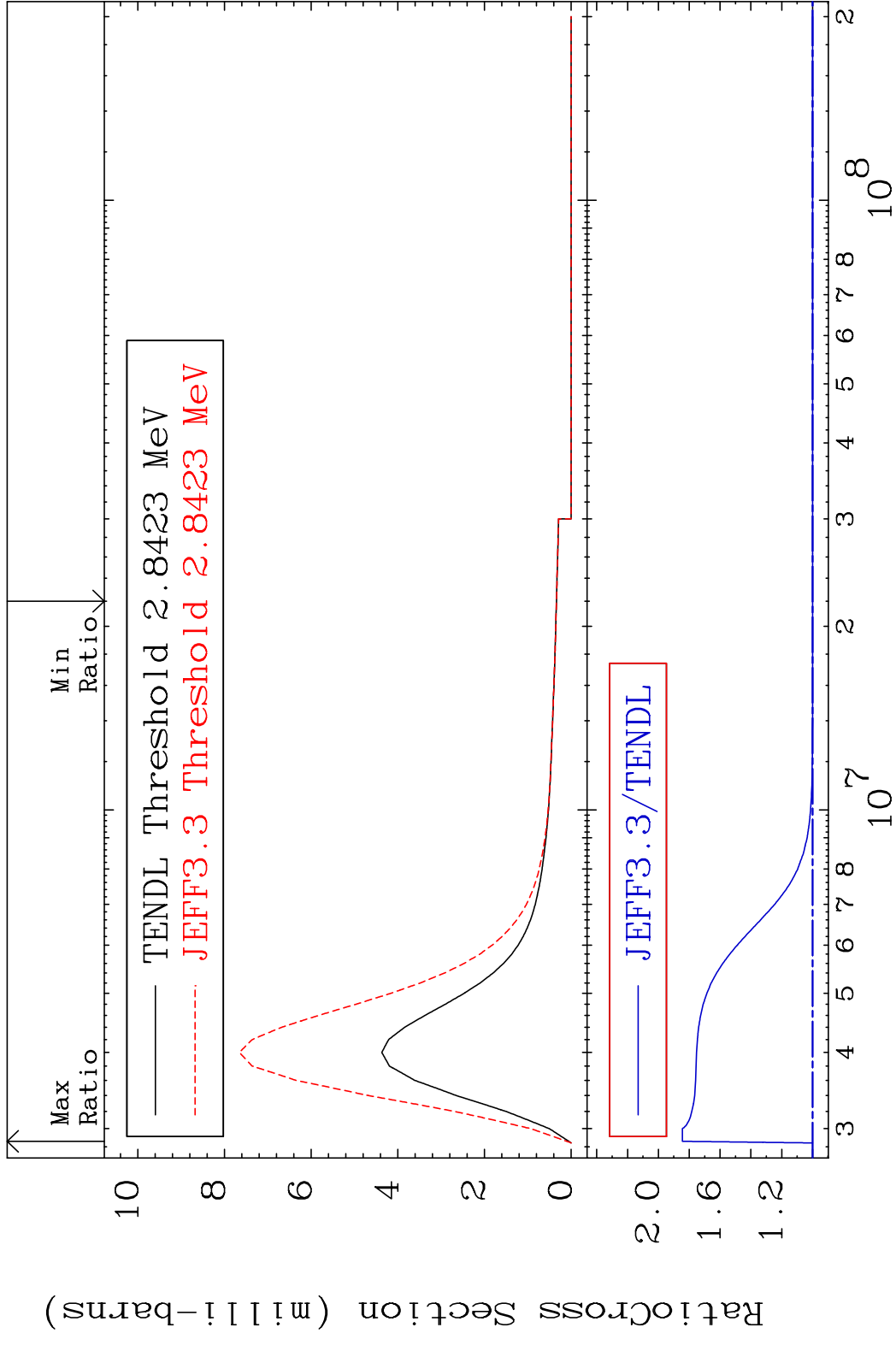
MAT 5061 MT= 70 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 0.000 %



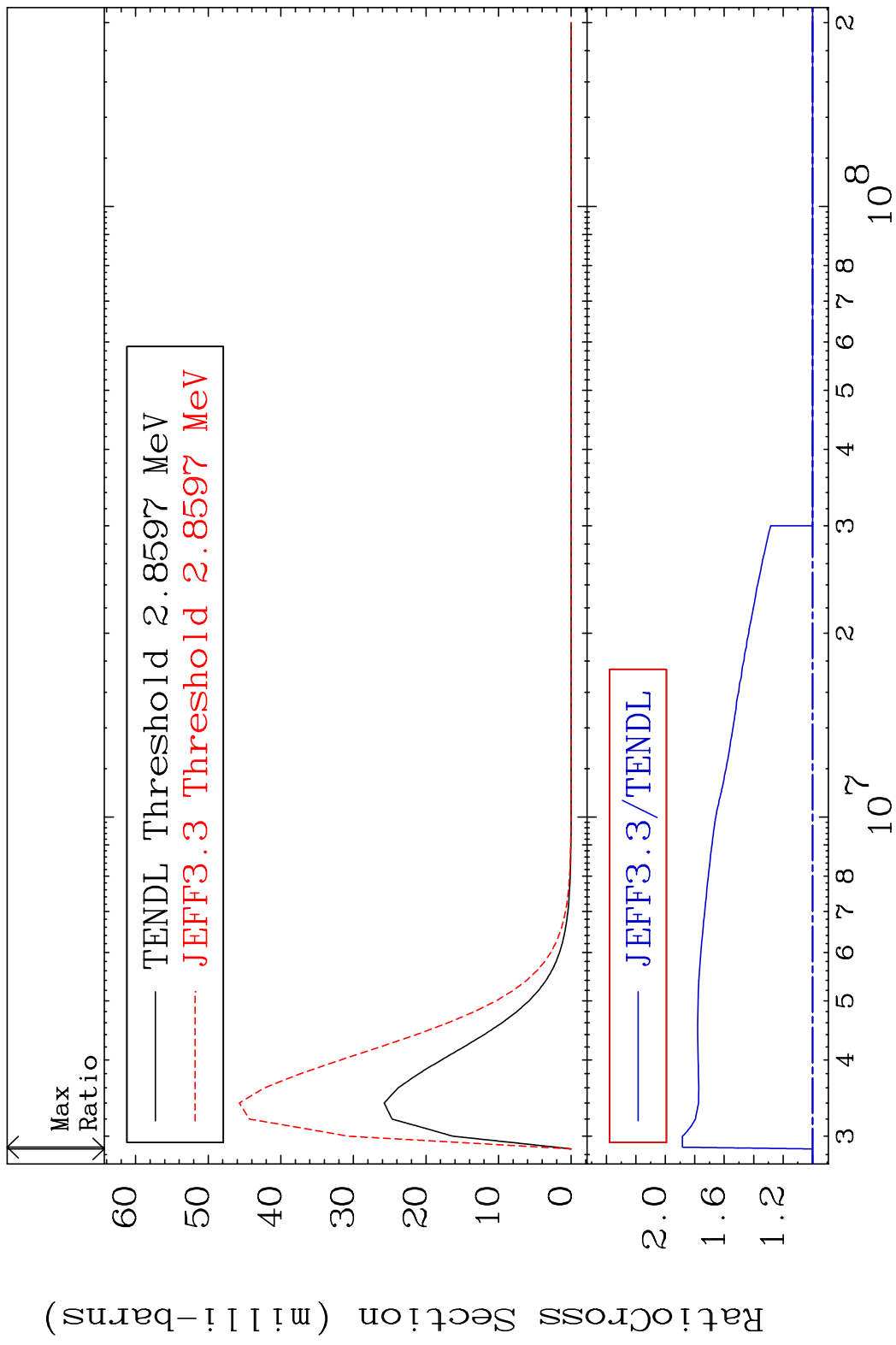
MAT 5061 MT= 71 (n, n') Level 50-Sn-124
 Cross Section 0.000 To 87.76 %



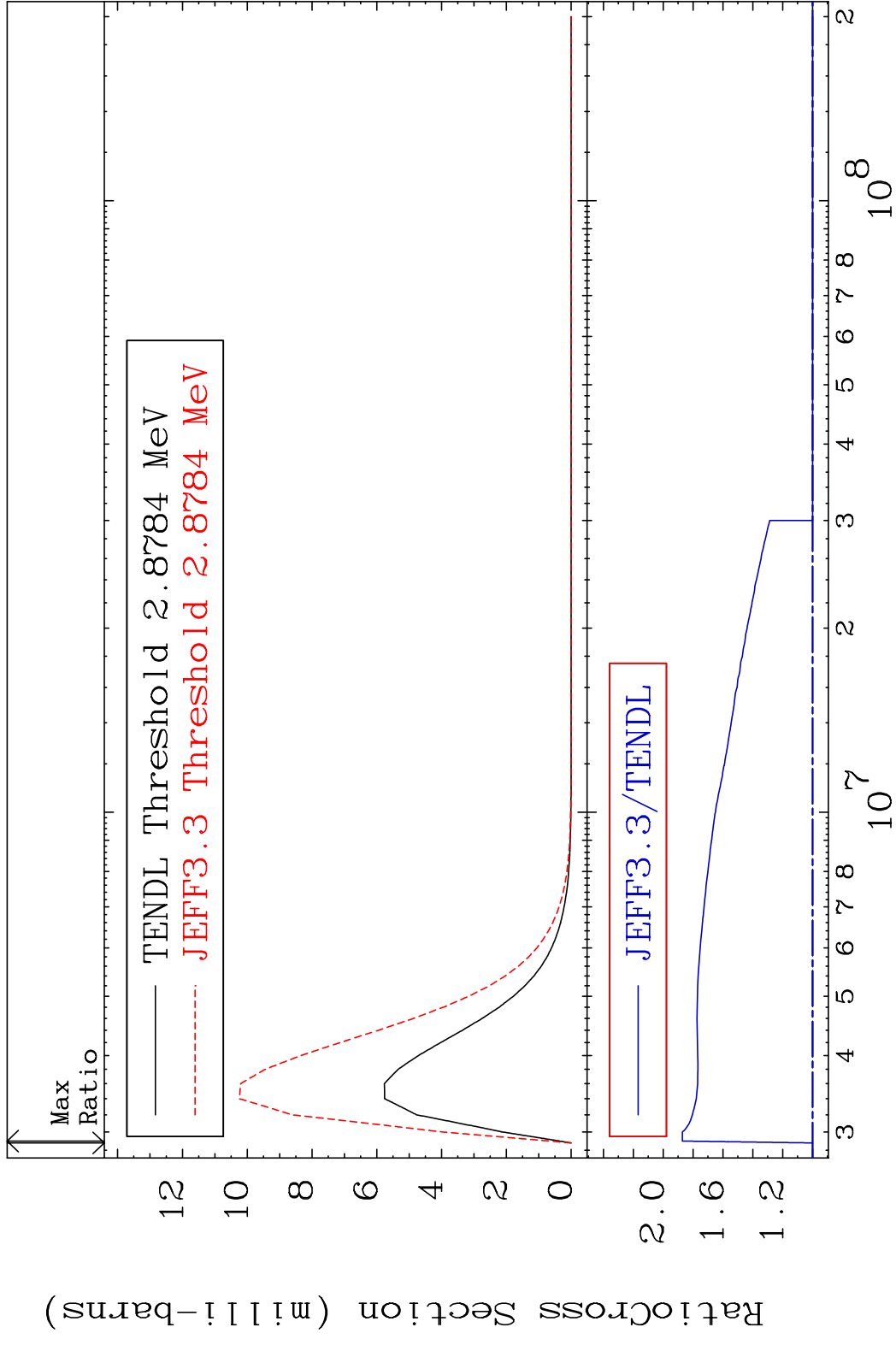
MAT 5061 MT= 72 (n, n') Level 50-Sn-124
 Cross Section 0.000 To 84.47 %



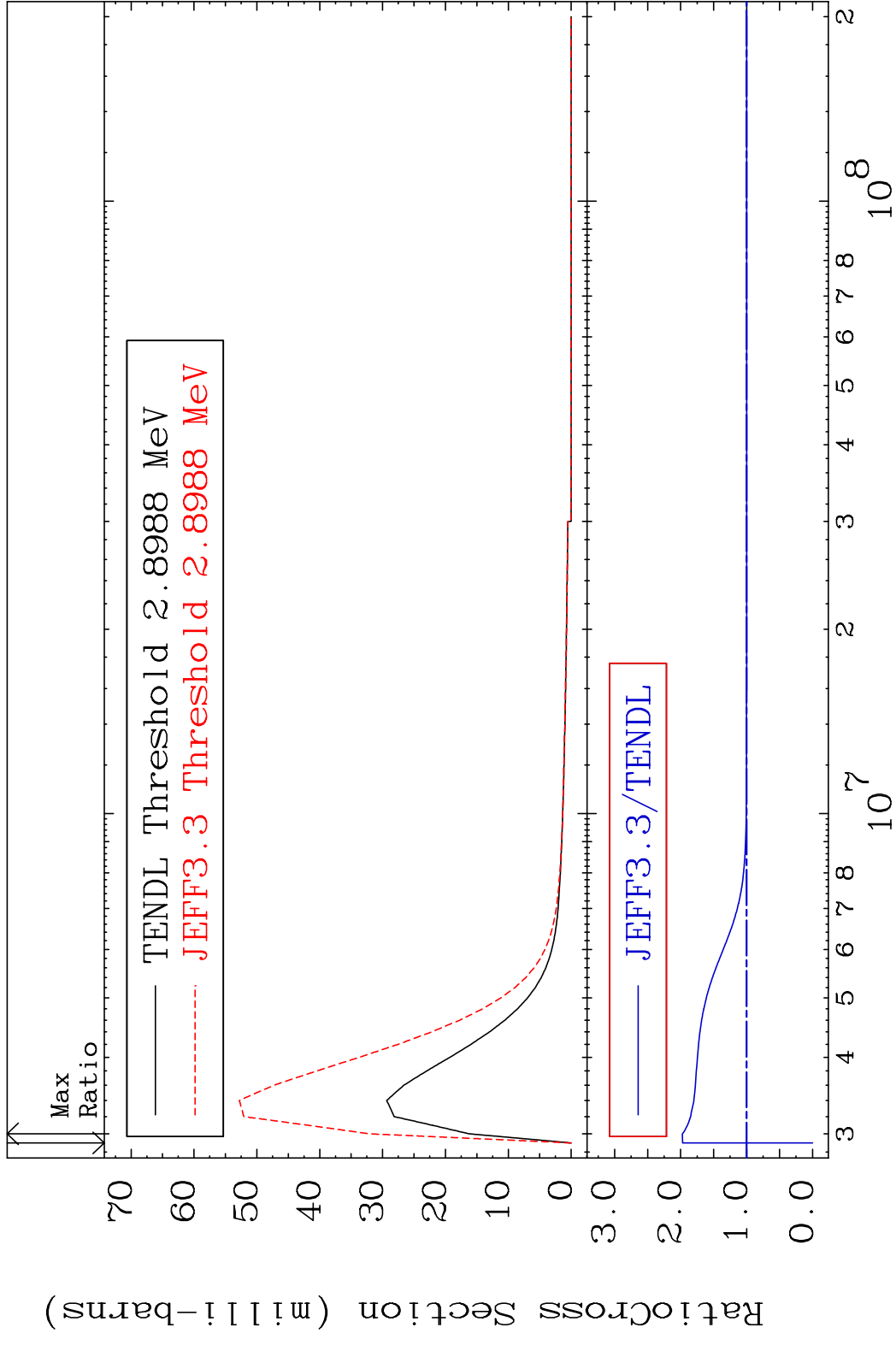
MAT 5061 MT= 73 (n, n') Level 50-Sn-124
 Cross Section 0.000 To 88.44 %



MAT 5061 MT= 74 (n,n') Level 50-Sn-124
 Cross Section 0.000 To 87.18 %

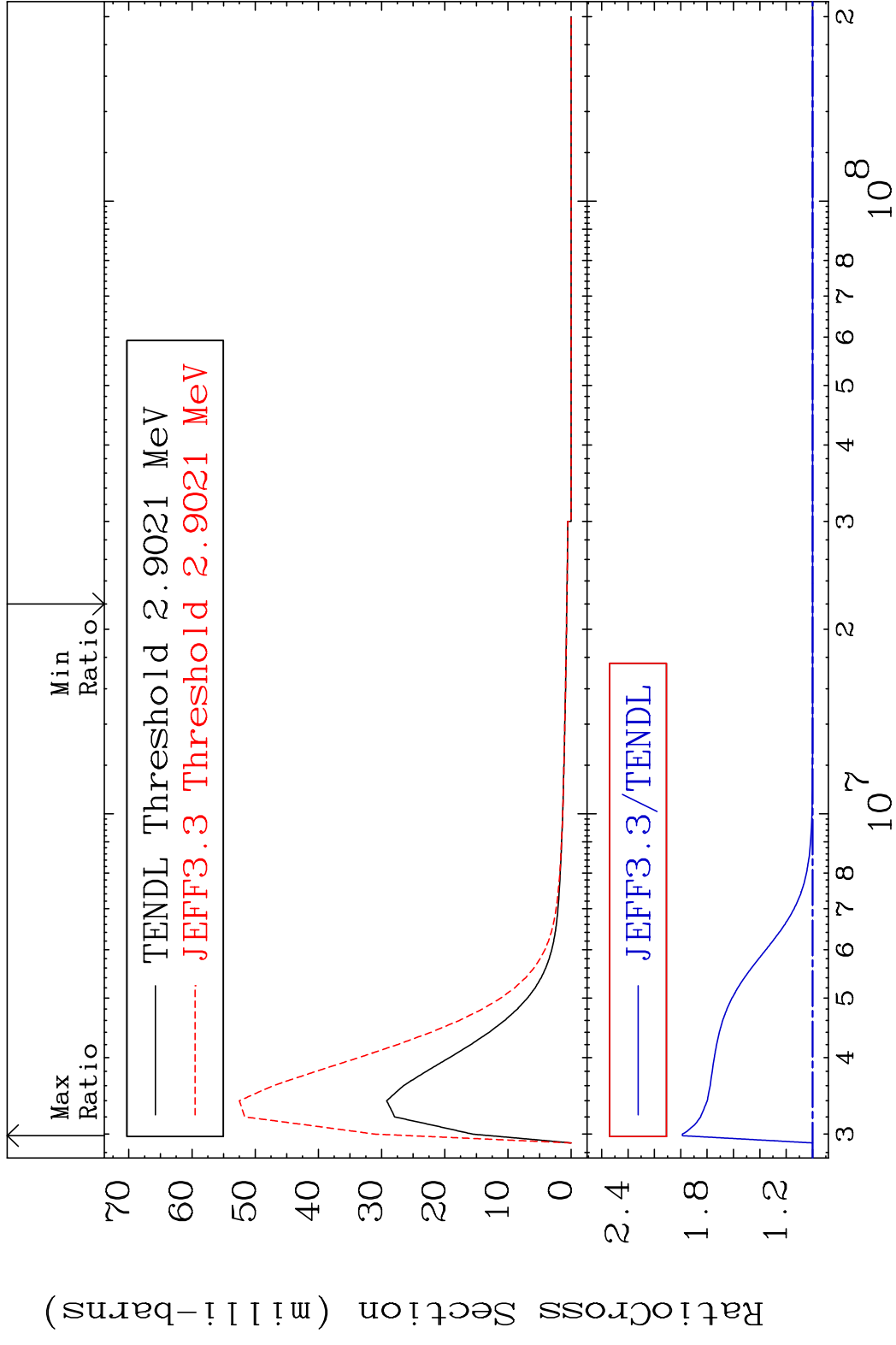


MAT 5061 MT= 75 (n, n') Level 50-Sn-124
 Cross Section -100.0 To 97.37 %

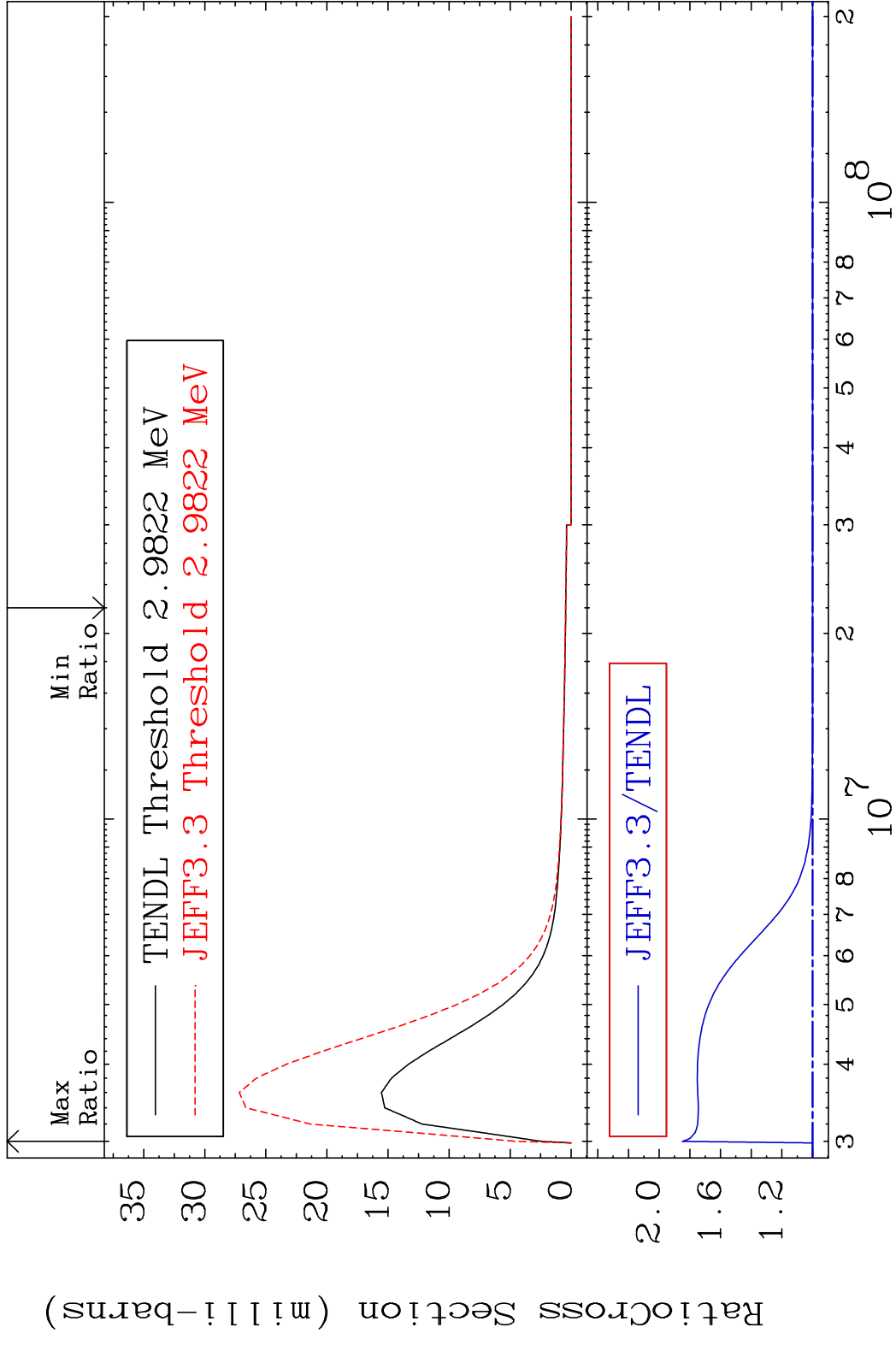


40 Incident Energy (eV) 50-Sn-124

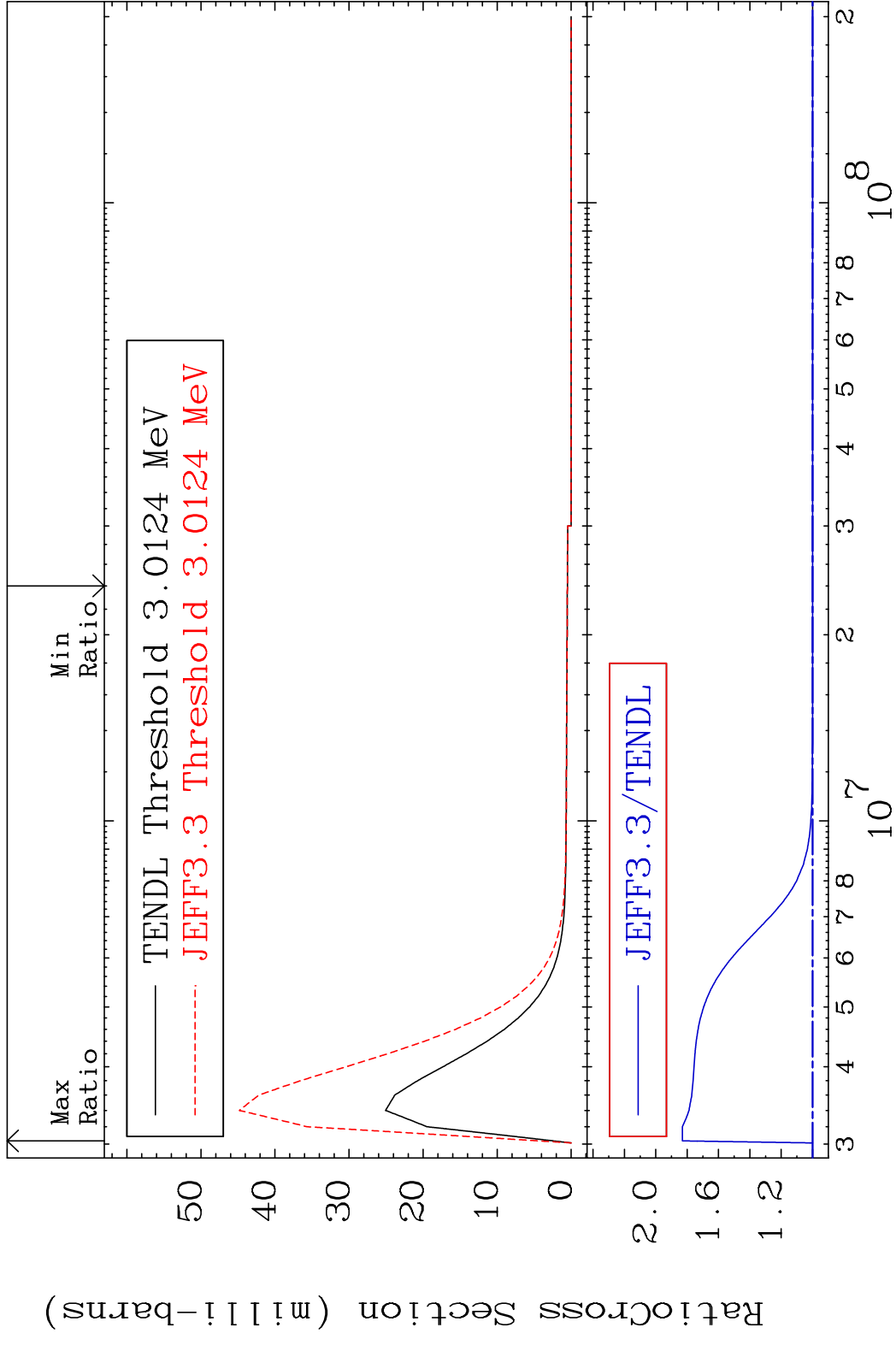
MAT 5061 MT= 76 (n,n') Level 50-Sn-124
 Cross Section 0.000 To 98.77 %



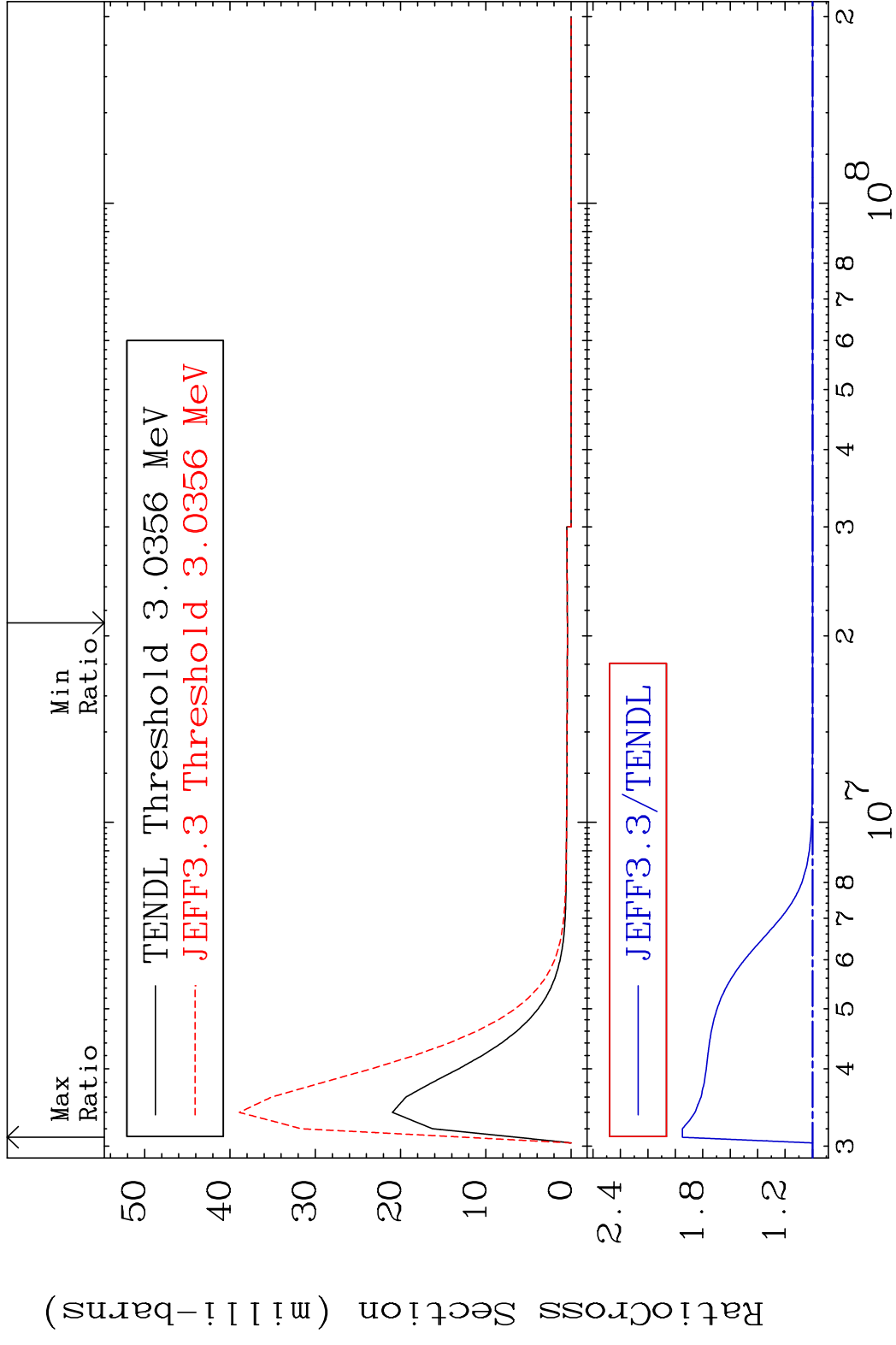
MAT 5061 MT= 77 (n, n') Level 50-Sn-124
 Cross Section 0.000 To 84.89 %



MAT 5061 MT= 78 (n,n') Level 50-Sn-124
 Cross Section 0.000 To 83.05 %

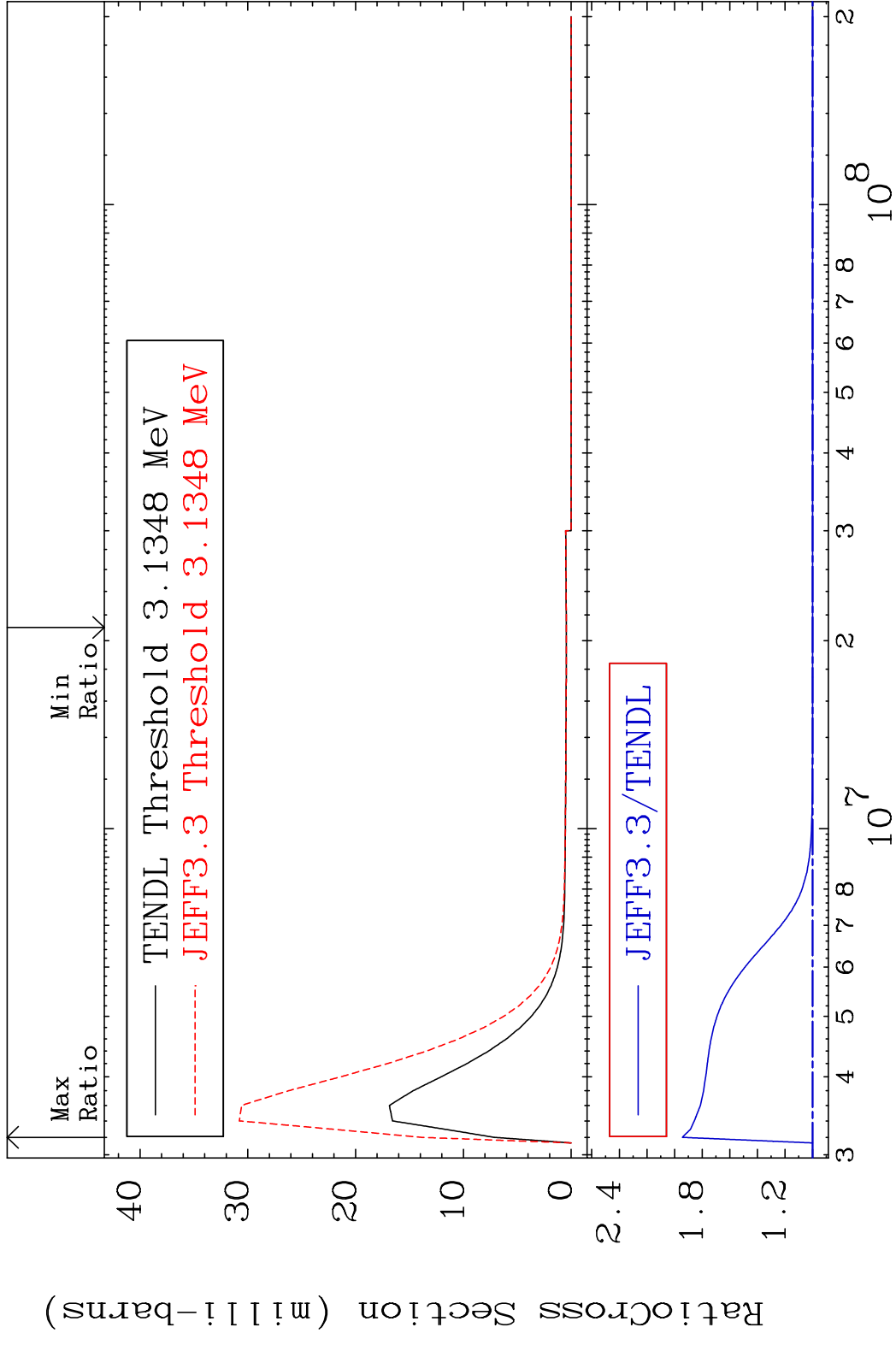


MAT 5061 MT= 79 (n, n') Level 50-Sn-124
 Cross Section 0.000 To 94.88 %



44 Incident Energy (eV) 50-Sn-124

MAT 5061 MT= 80 (n,n') Level 50-Sn-124
 Cross Section 0.000 To 94.34 %

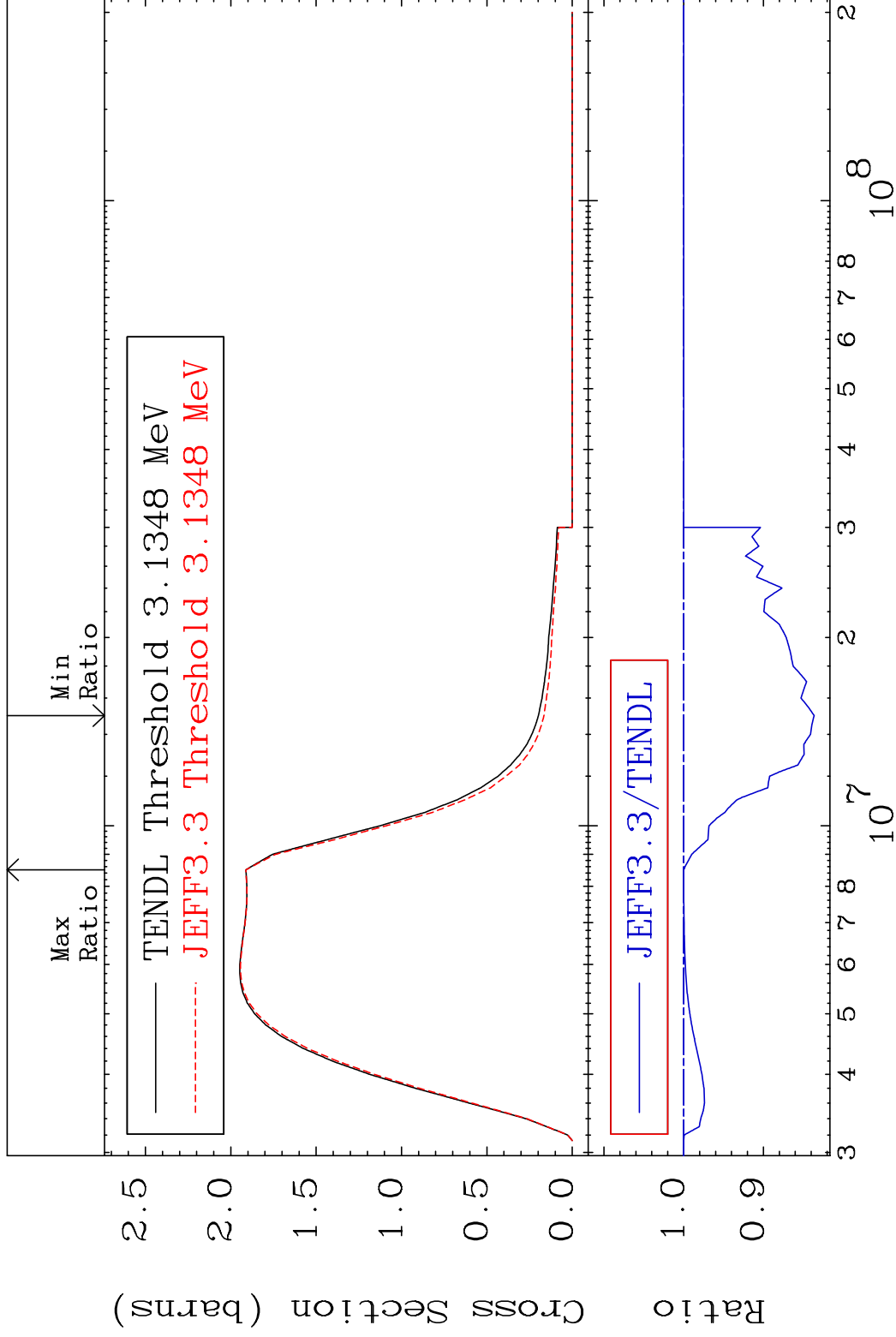


MAT 5061

(n, n') Continuum

50-Sn-124

Cross Section -16.36 To 0.005 %



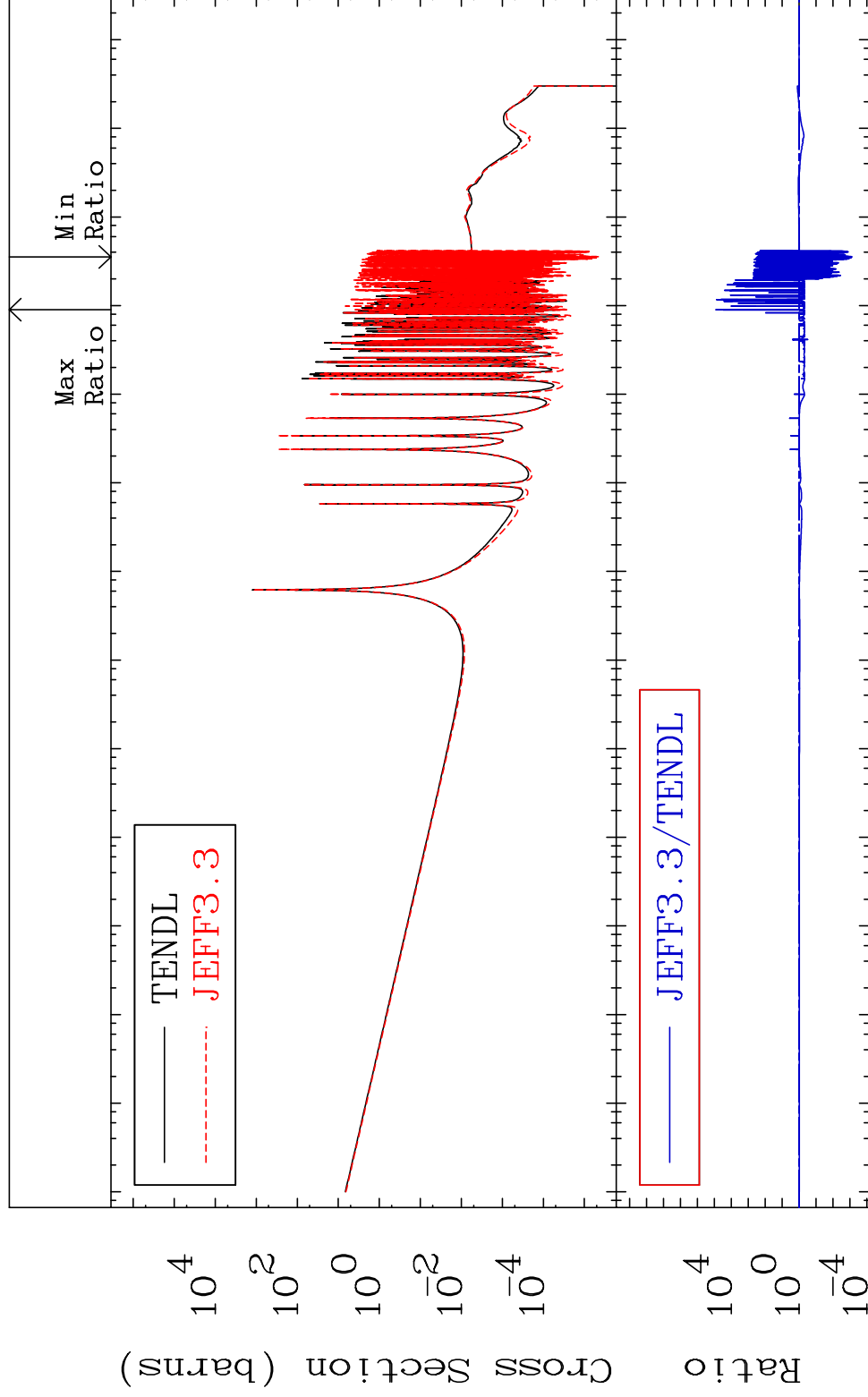
MAT 5061

(n, γ)

50-Sn-124

Cross Section

-99.93 To 9999. %



47

Incident Energy (eV)

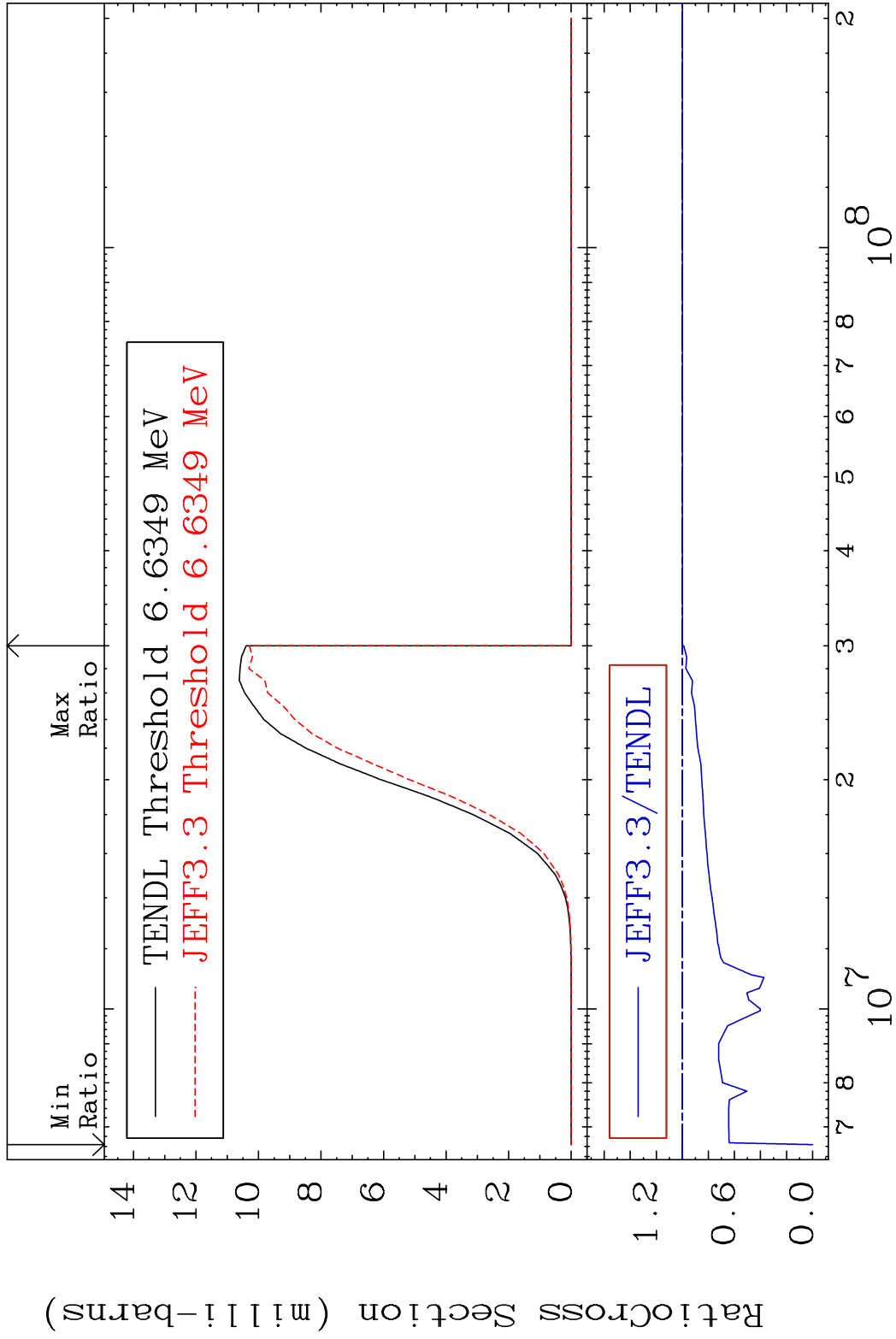
50-Sn-124

MAT 5061

(n,p)

50-Sn-124

Cross Section -100.0 To 0.000 %



48

Incident Energy (eV)

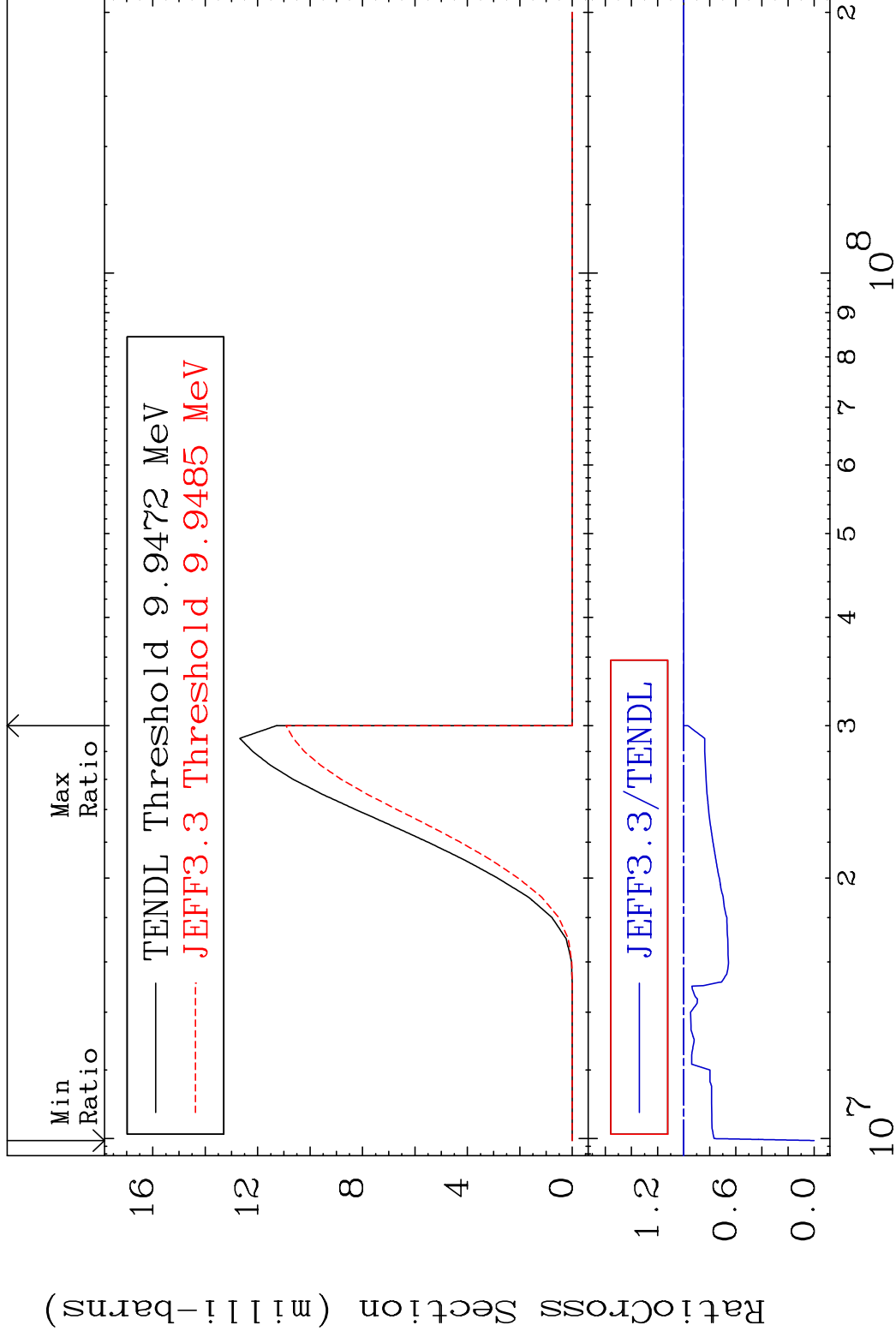
50-Sn-124

MAT 5061

(n, d)

50-Sn-124

Cross Section -100.0 To 0.000 %



49

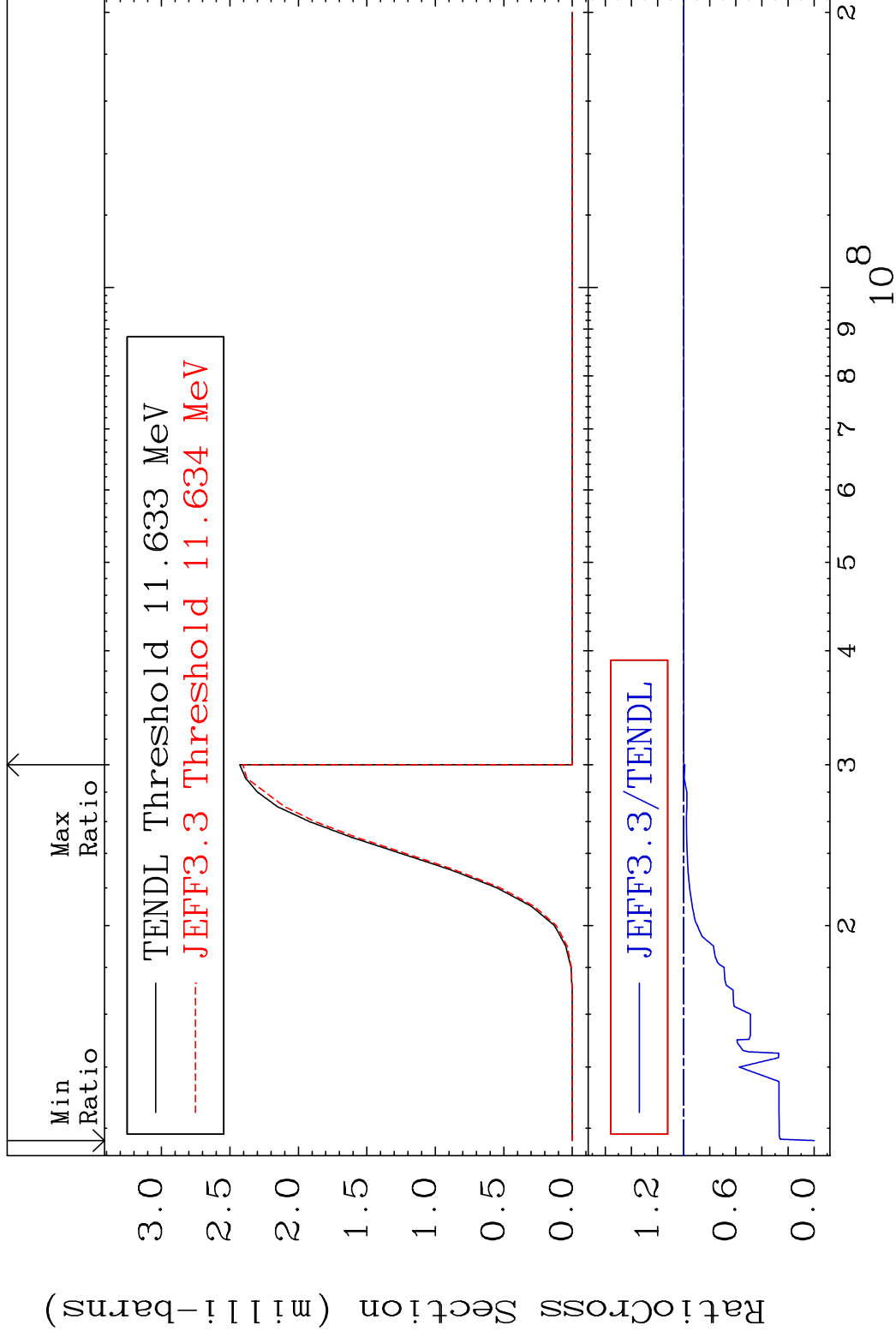
Incident Energy (eV)

50-Sn-124

MAT 5061

(n, t) 50-Sn-124

Cross Section -100.0 To 0.000 %



50

Incident Energy (eV)

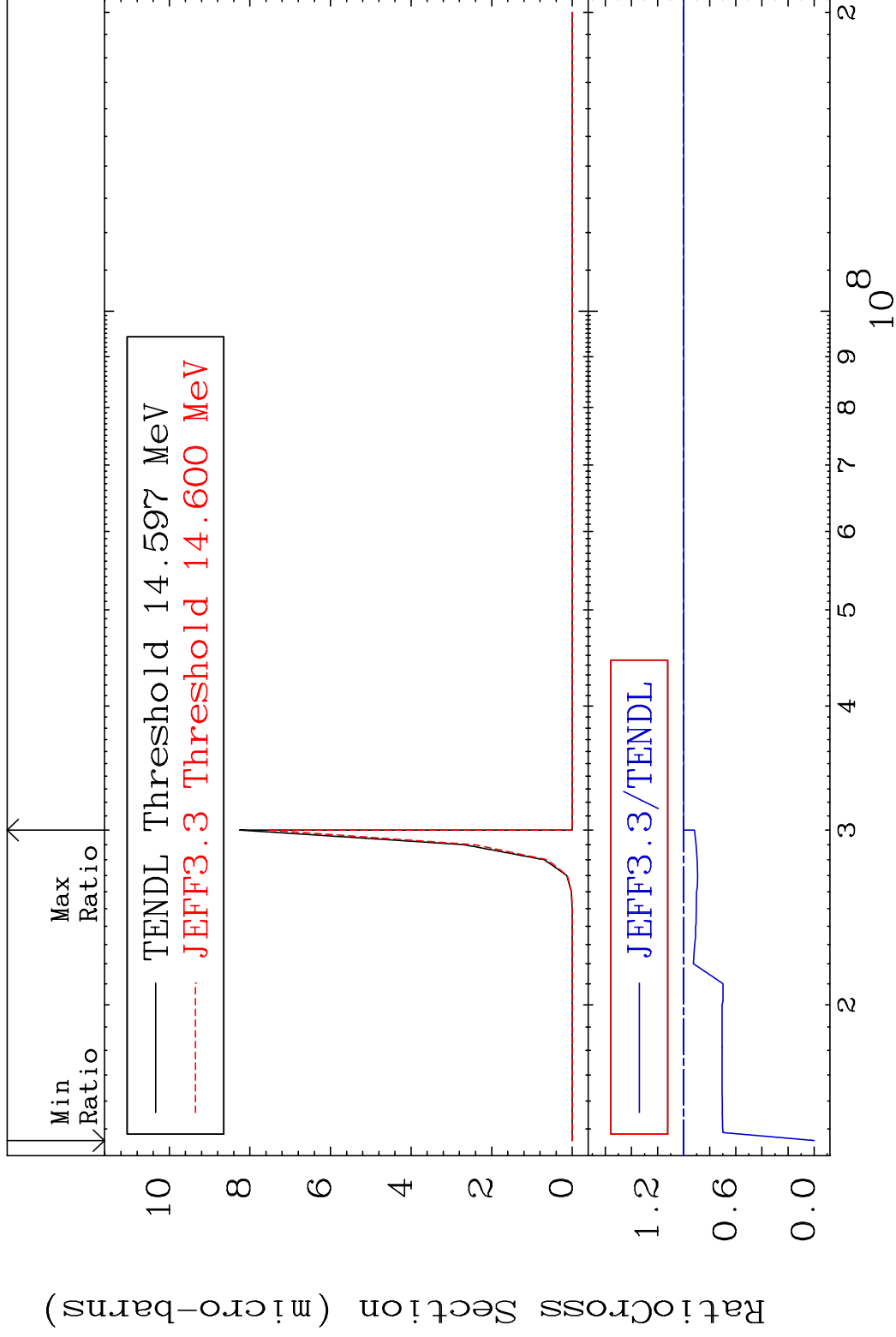
50-Sn-124

MAT 5061

(n, He-3)

50-Sn-124

Cross Section -100.0 To 0.000 %



51

Incident Energy (eV)

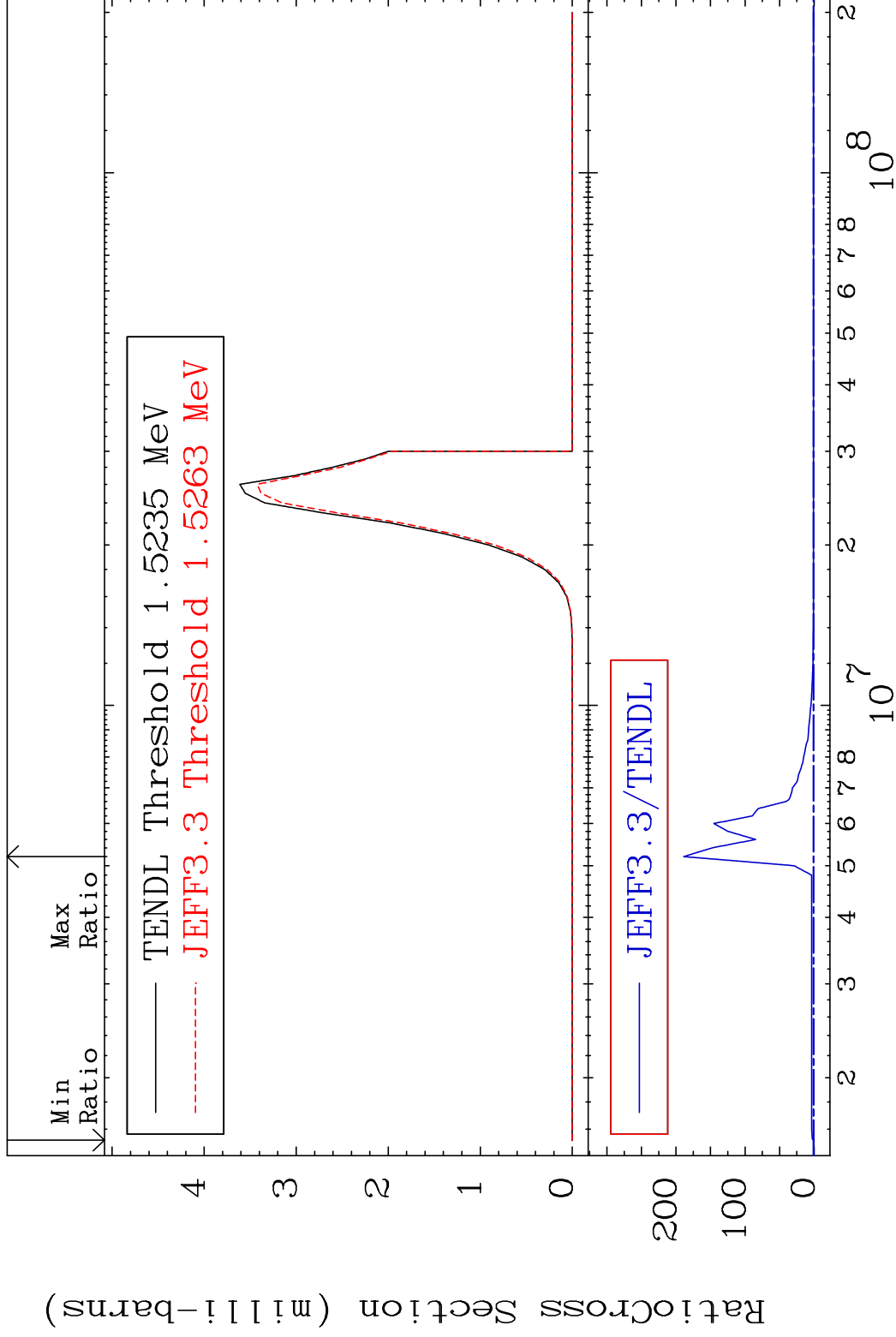
50-Sn-124

MAT 5061

(n, α)

50-Sn-124

Cross Section -100.0 To 9999. %



52

Incident Energy (eV)

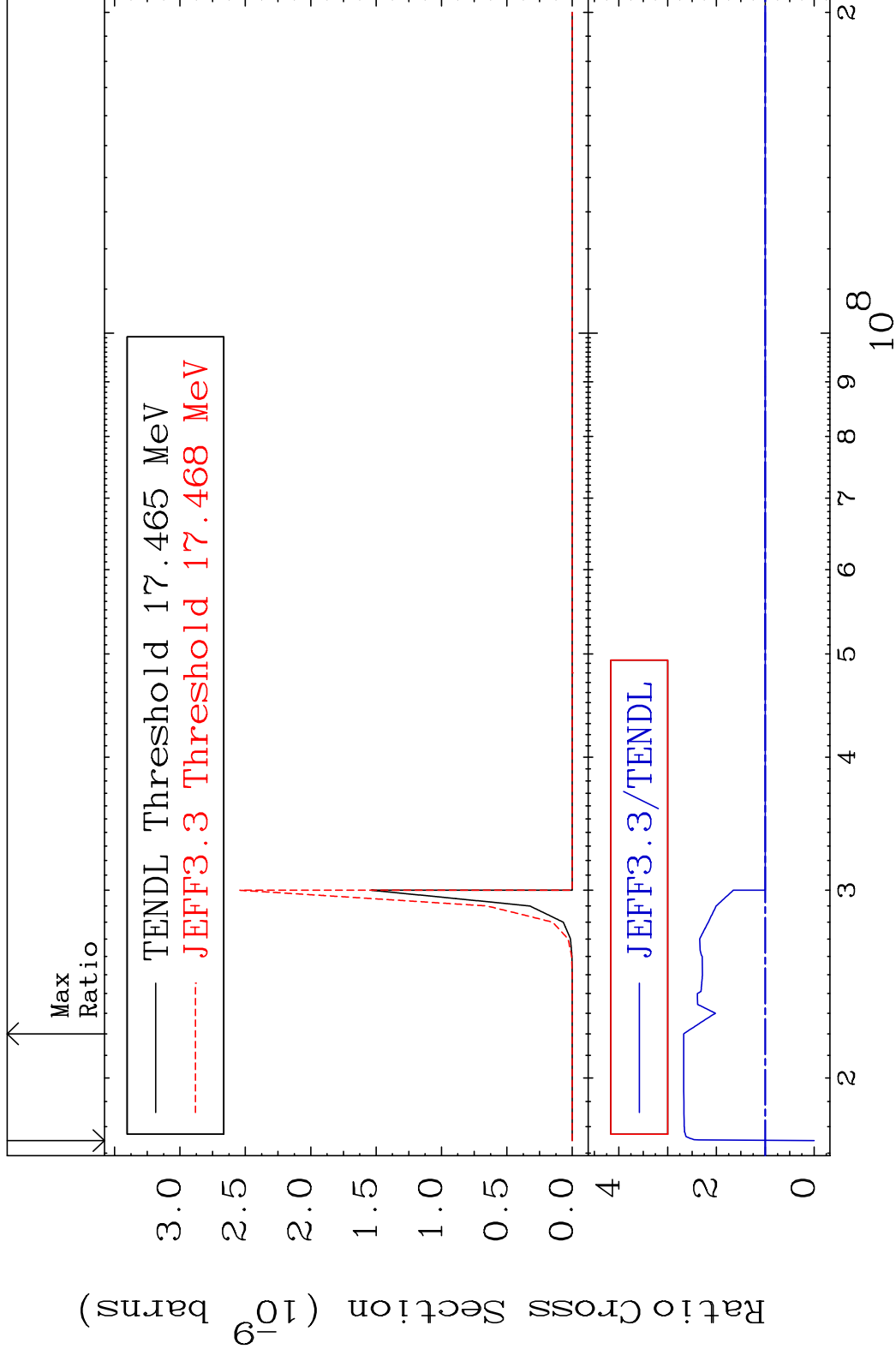
50-Sn-124

MAT 5061

(n,2p)

50-Sn-124

Cross Section -100.0 To 167.2 %

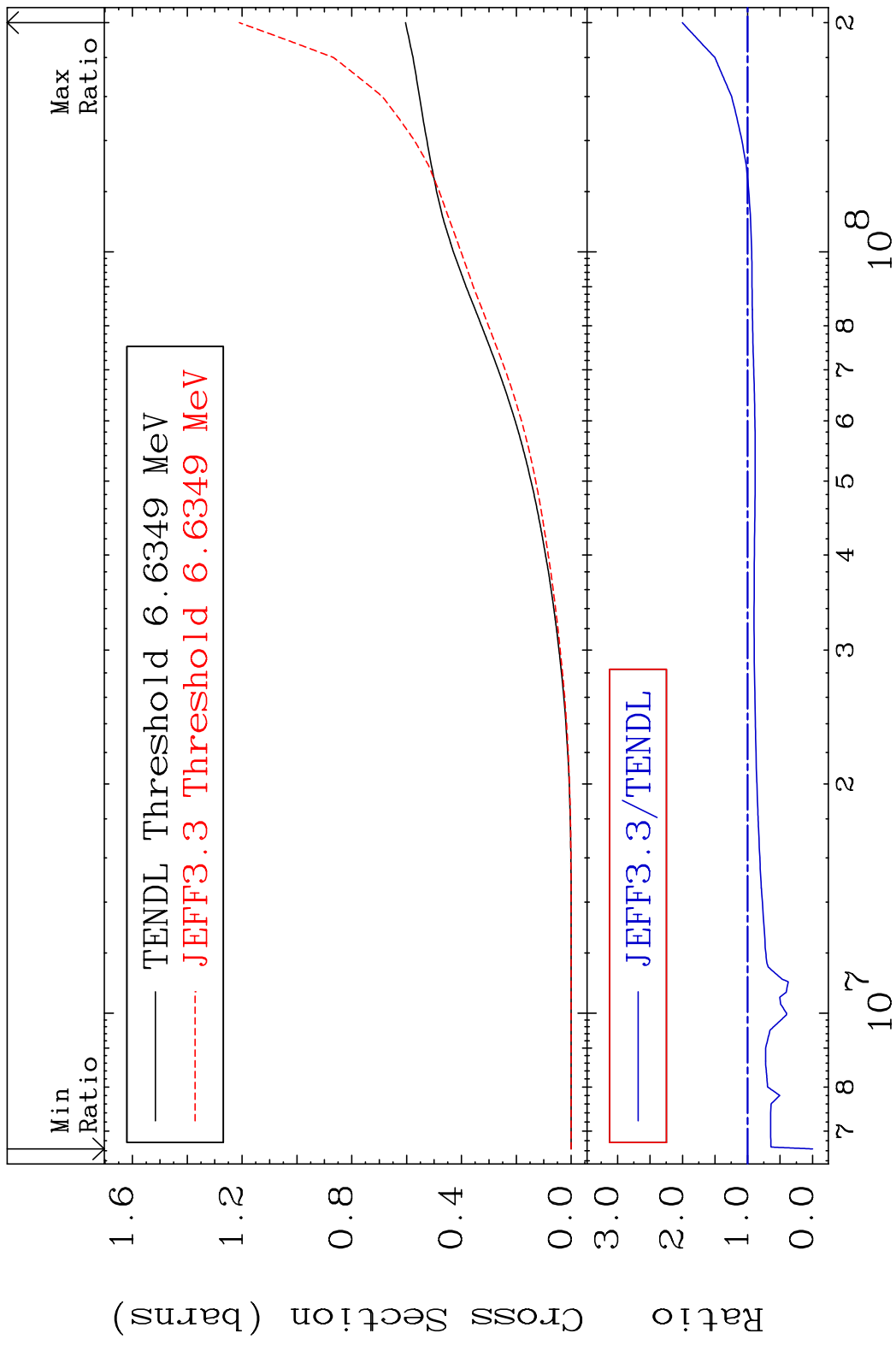


53

Incident Energy (eV)

50-Sn-124

MAT 5061 Hydrogen Production 50-Sn-124
 Cross Section -100.0 To 100.3 %

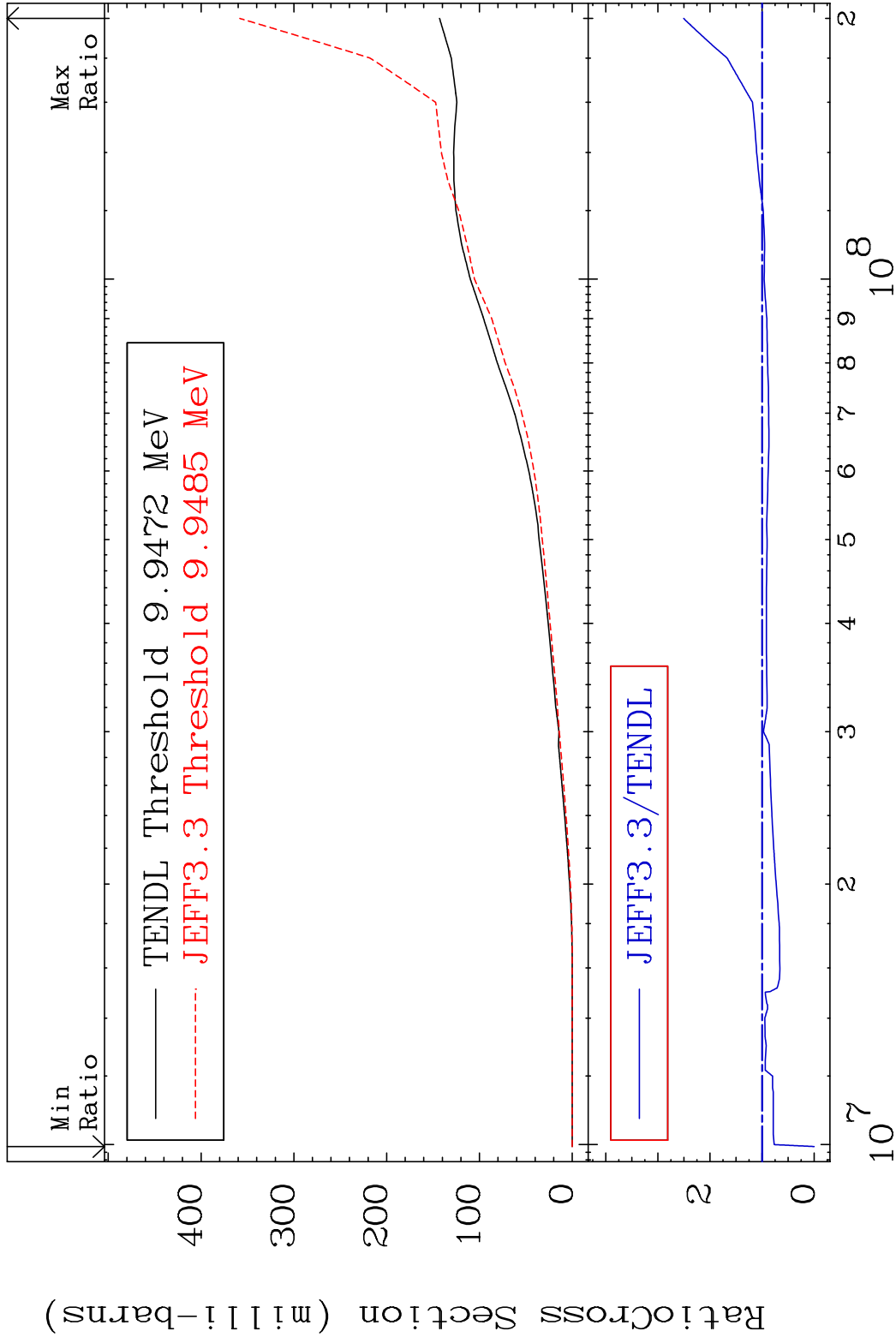


MAT 5061

Deuterium Production

50-Sn-124

Cross Section -100.0 To 150.5 %

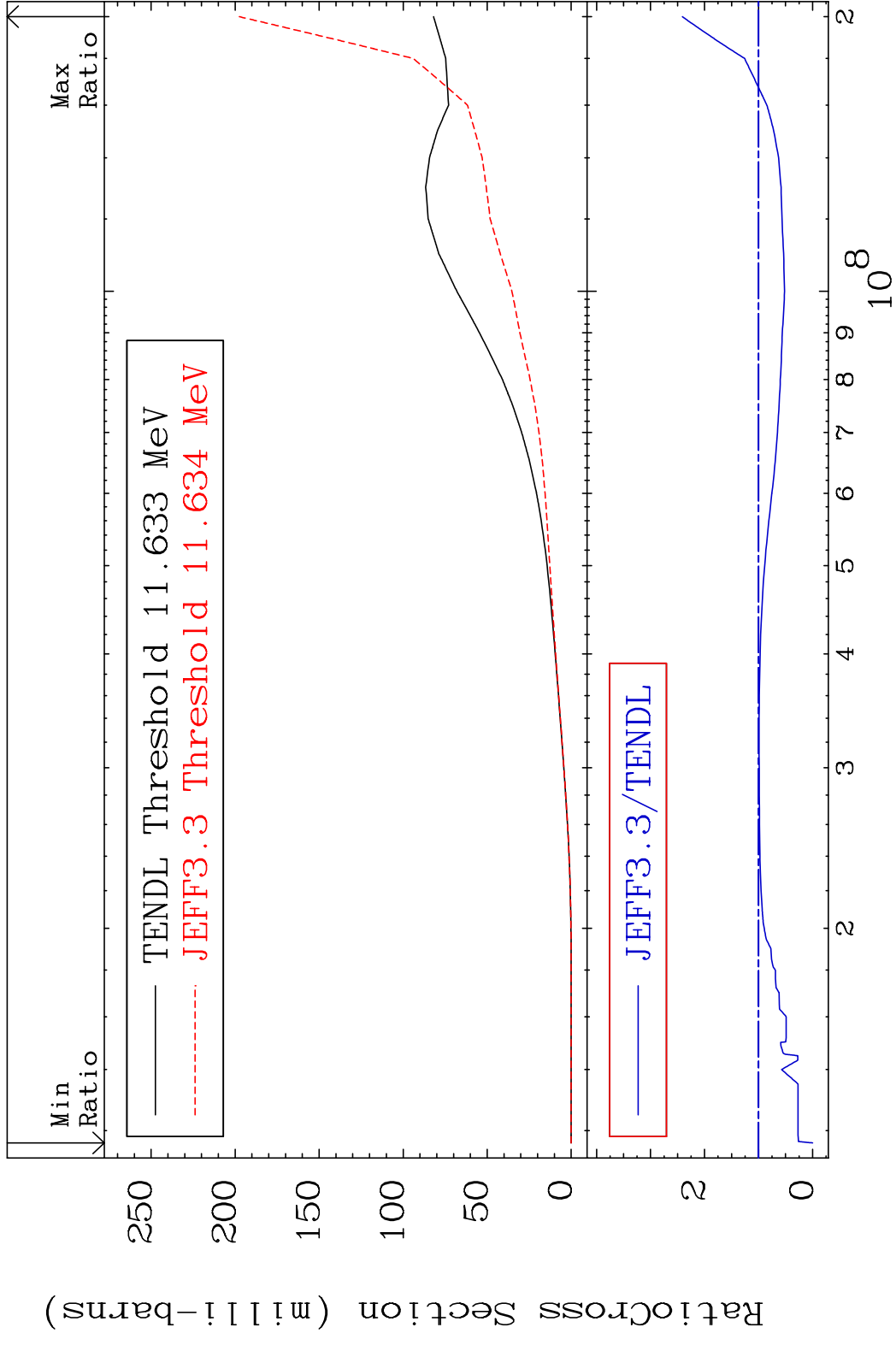


55

Incident Energy (eV)

50-Sn-124

MAT 5061 Tritium Production 50-Sn-124
 Cross Section -100.0 To 141.1 %

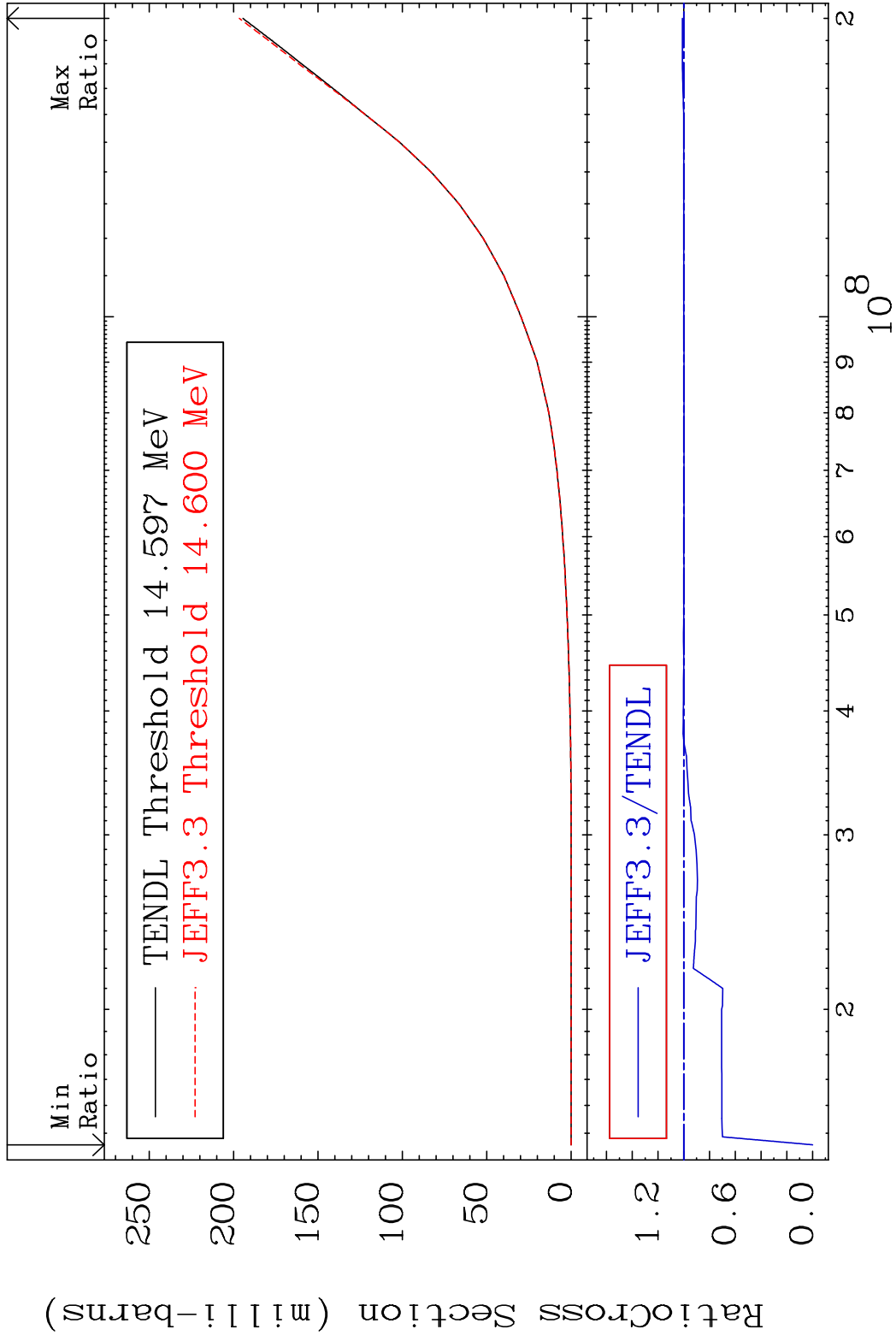


MAT 5061

He-3 Production

50-Sn-124

Cross Section -100.0 To 1.089 %

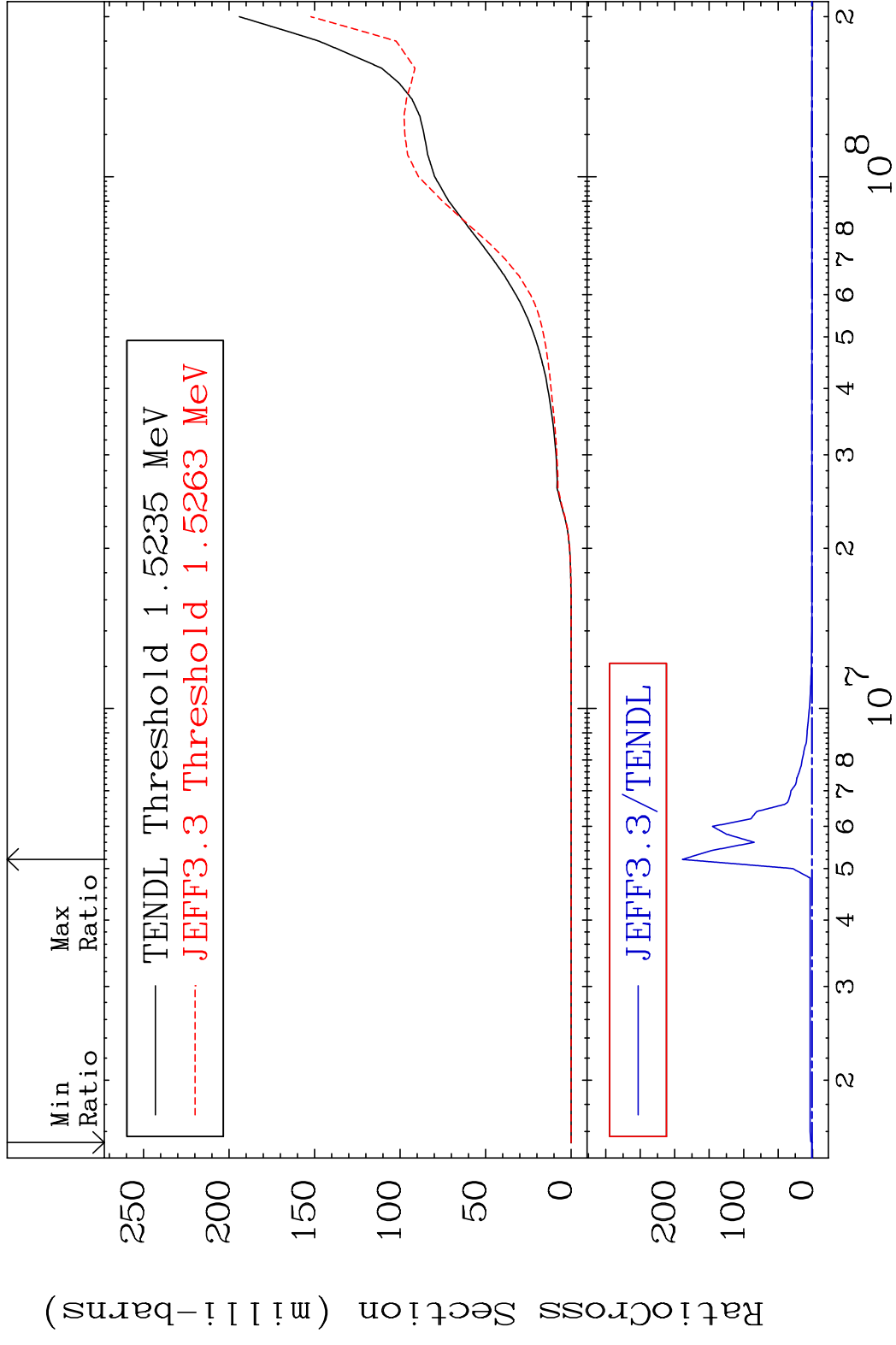


57

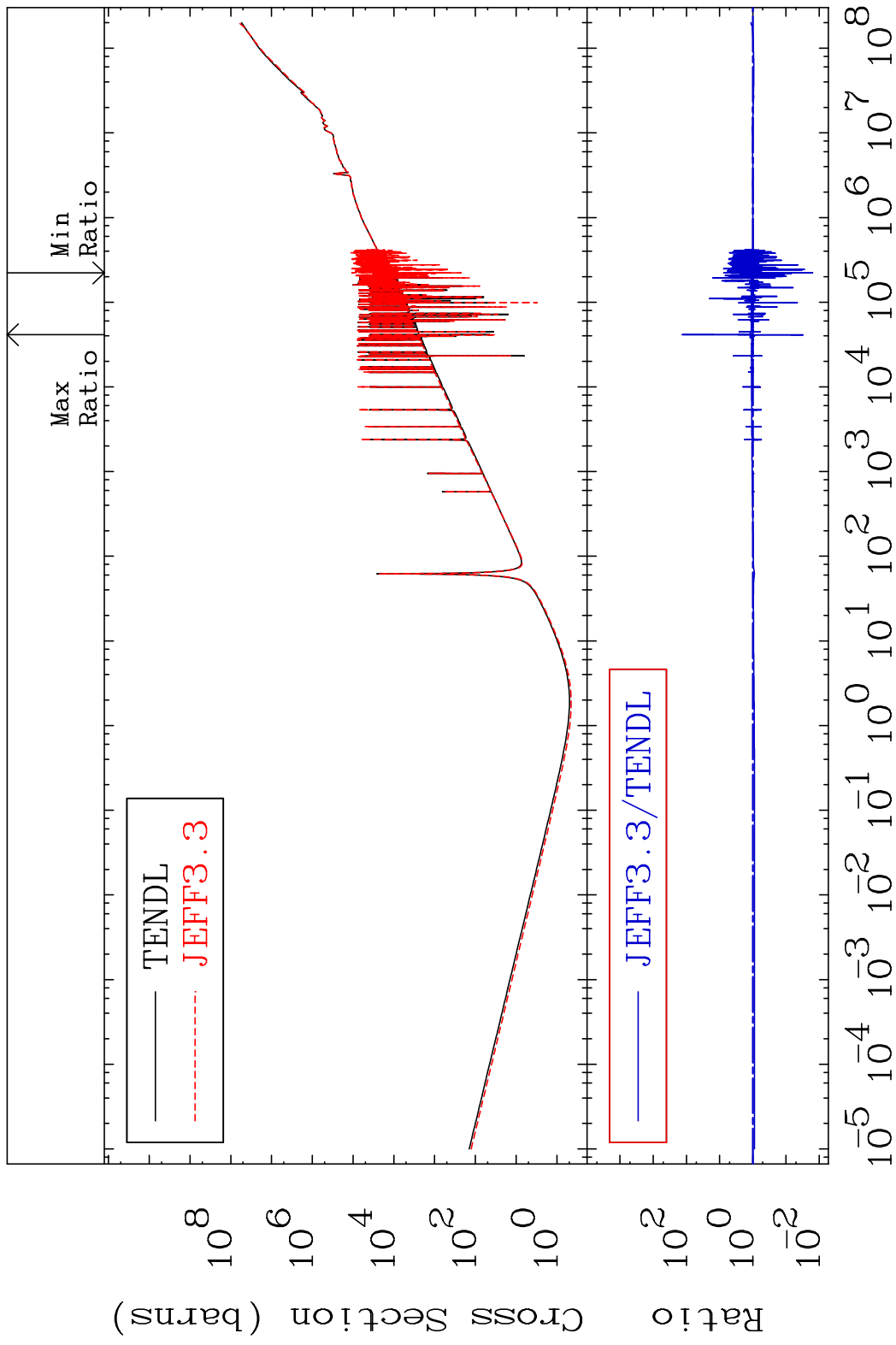
Incident Energy (eV)

50-Sn-124

MAT 5061 He-4 Production 50-Sn-124
 Cross Section -100.0 To 9999. %



MAT 5061 Kerma total (eV-barns) 50-Sn-124
 Cross Section -98.42 To 9999. %

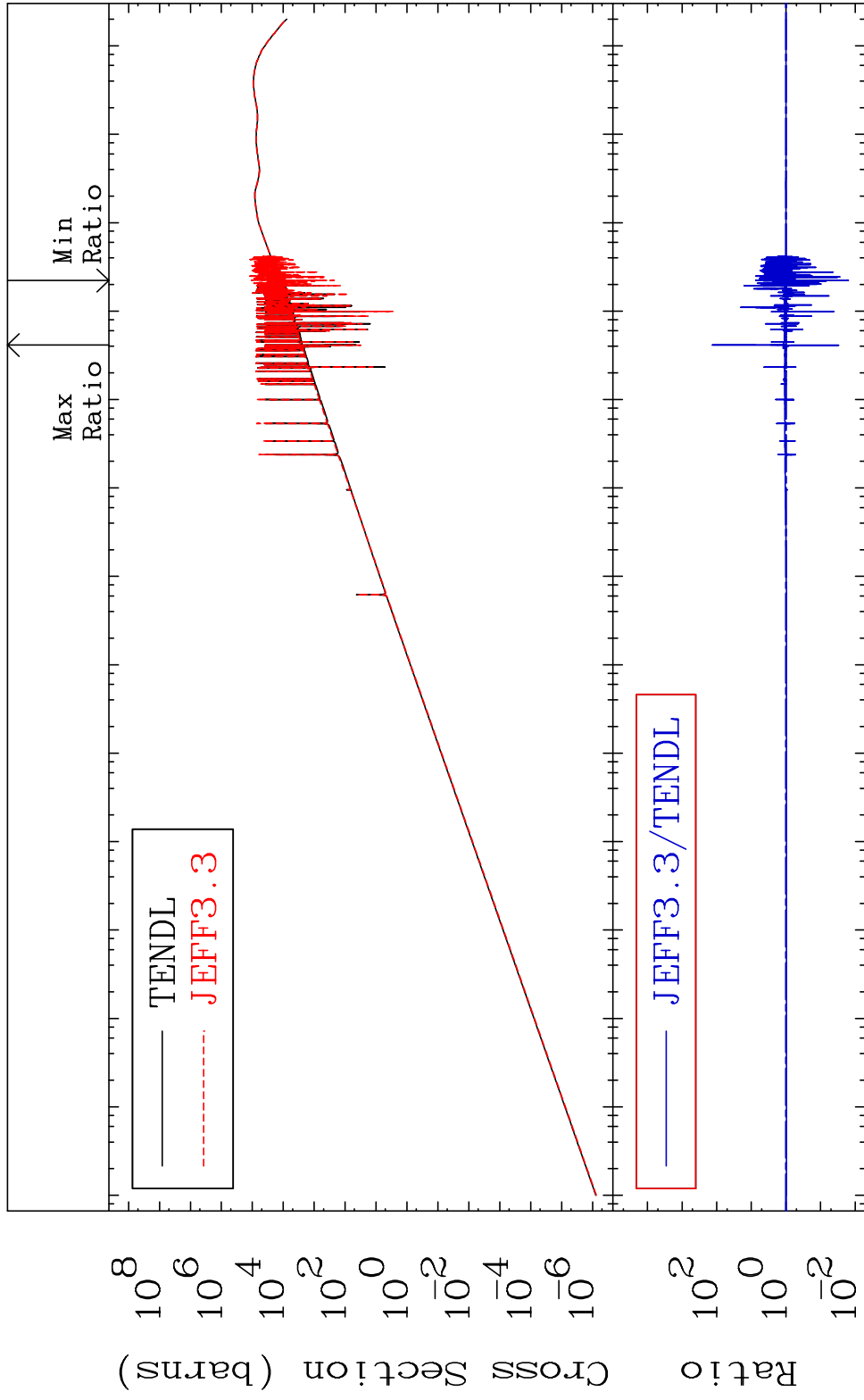


59 Incident Energy (eV) 50-Sn-124

MAT 5061

Kerma elastic
Cross Section

50-Sn-124
-98.42 To 9999. %

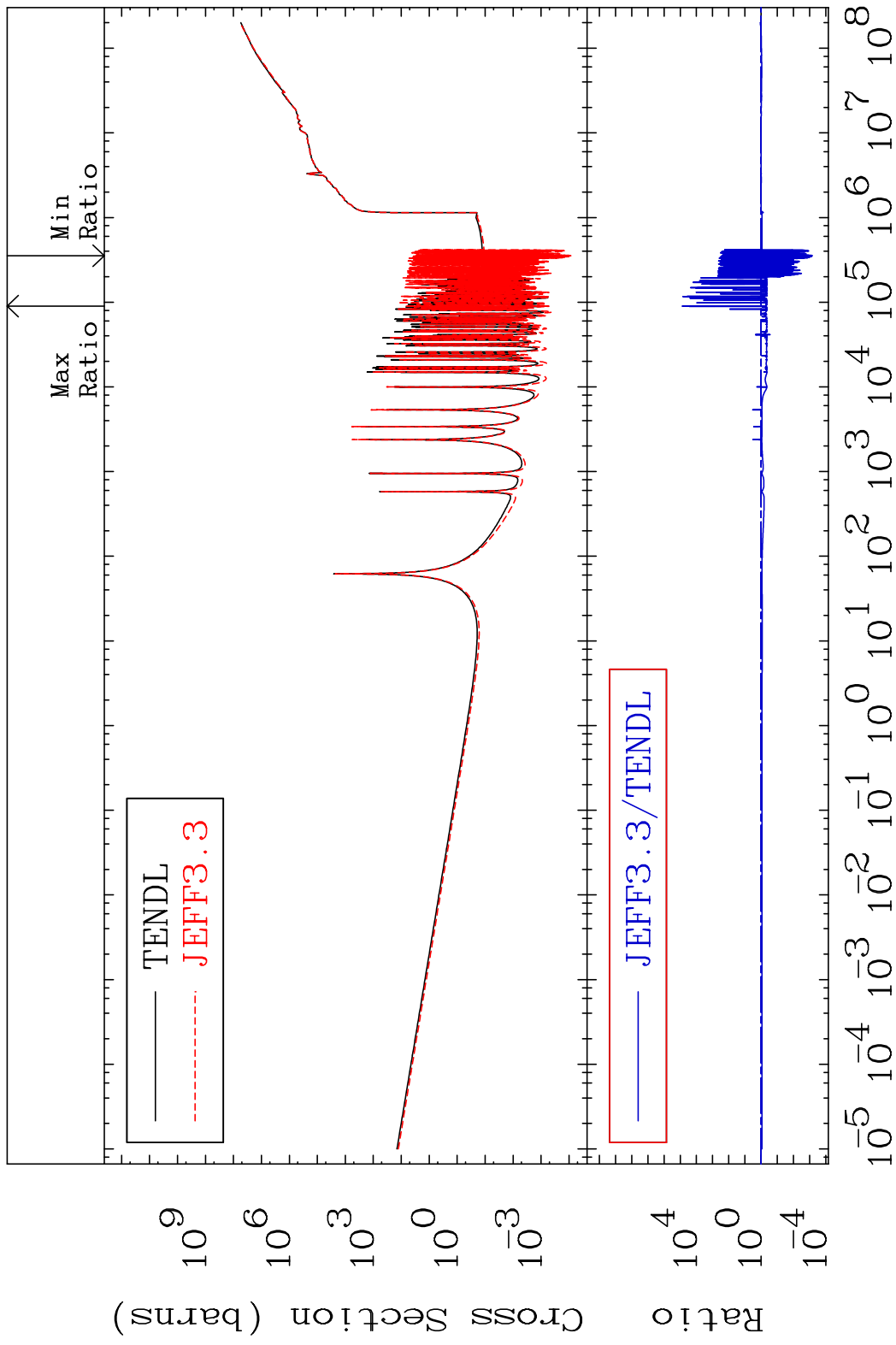


60

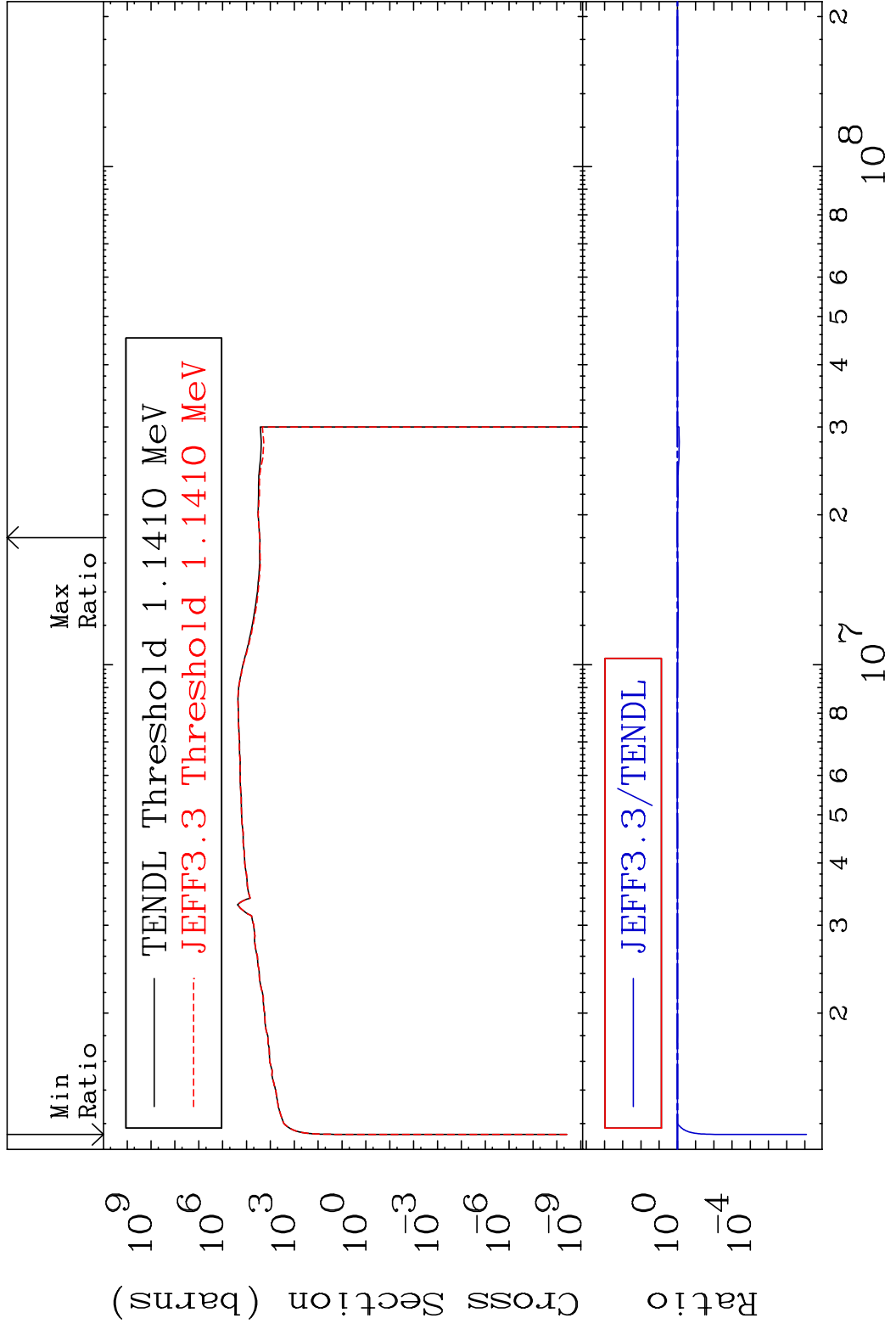
Incident Energy (eV)

50-Sn-124

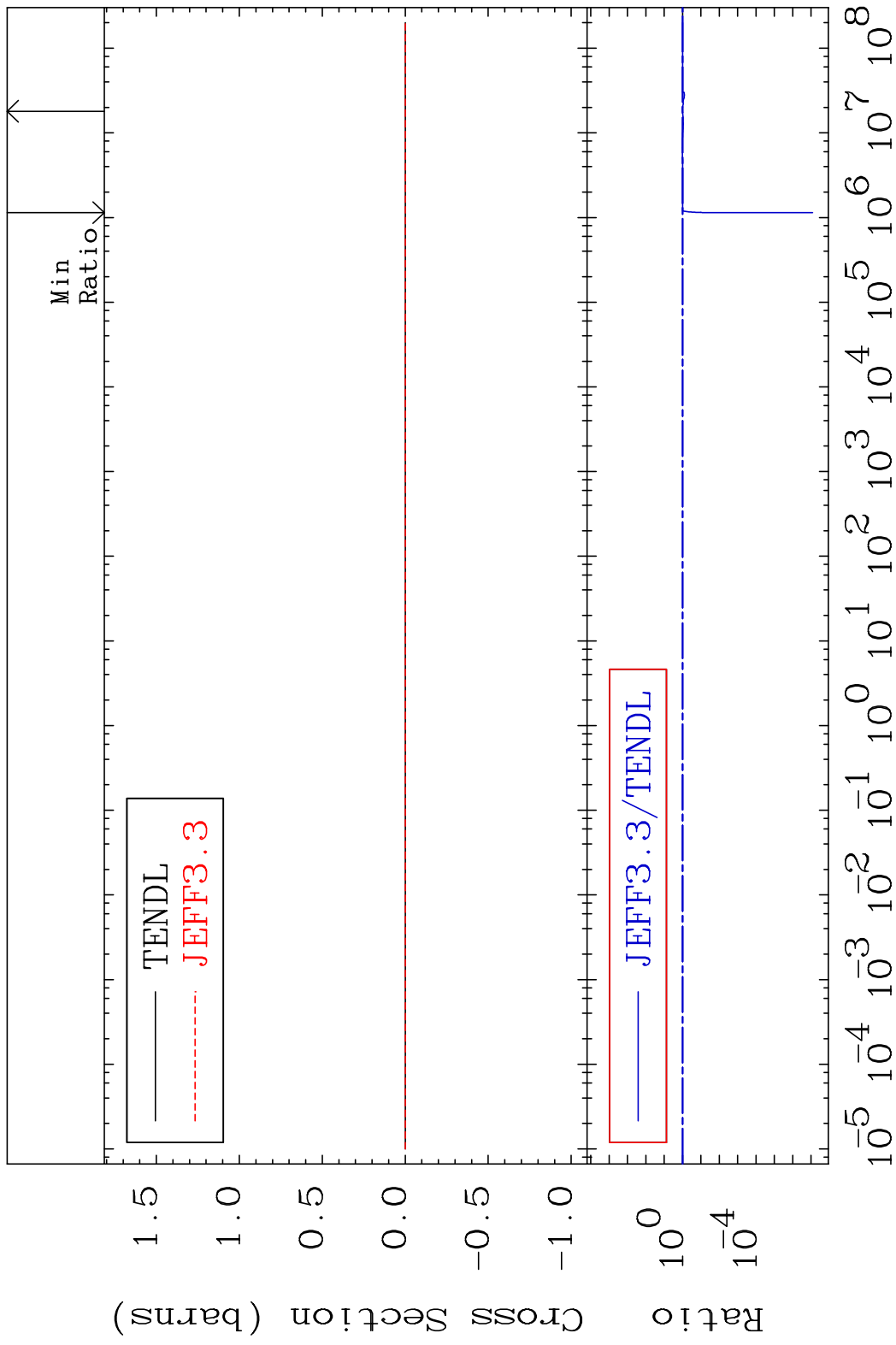
MAT 5061 Kerma non-elastic (all but mt2) 50-Sn-124
 Cross Section -99.93 To 9999. %



MAT 5061 Kerma inelastic (mt51-91) 50-Sn-124
 Cross Section -100.0 To 1.981 %

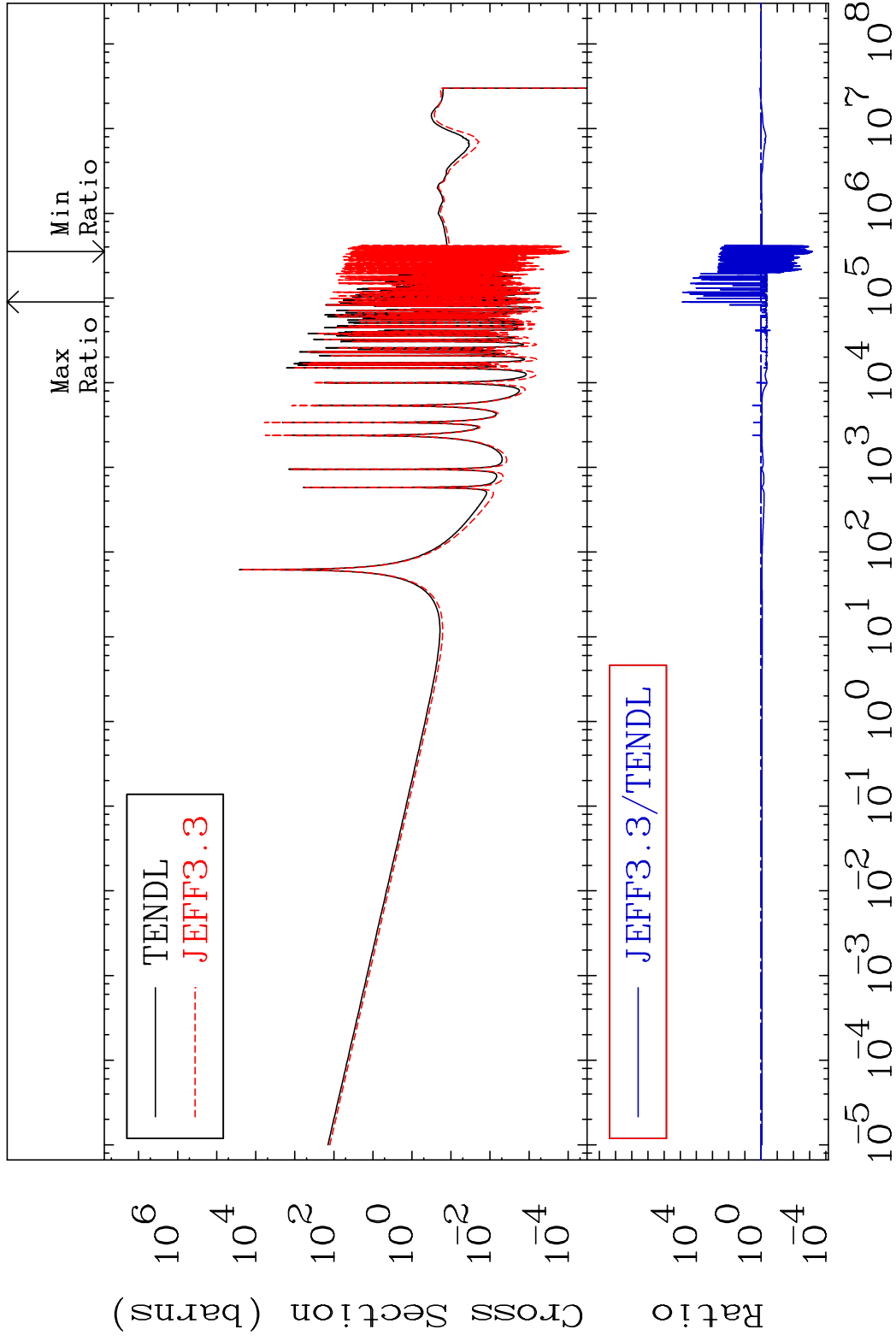


MAT 5061 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-124
 Cross Section -100.0 To 1.981 %



MAT 5061

Kerma capture (mt102) 50-Sn-124
Cross Section -99.93 To 9999. %

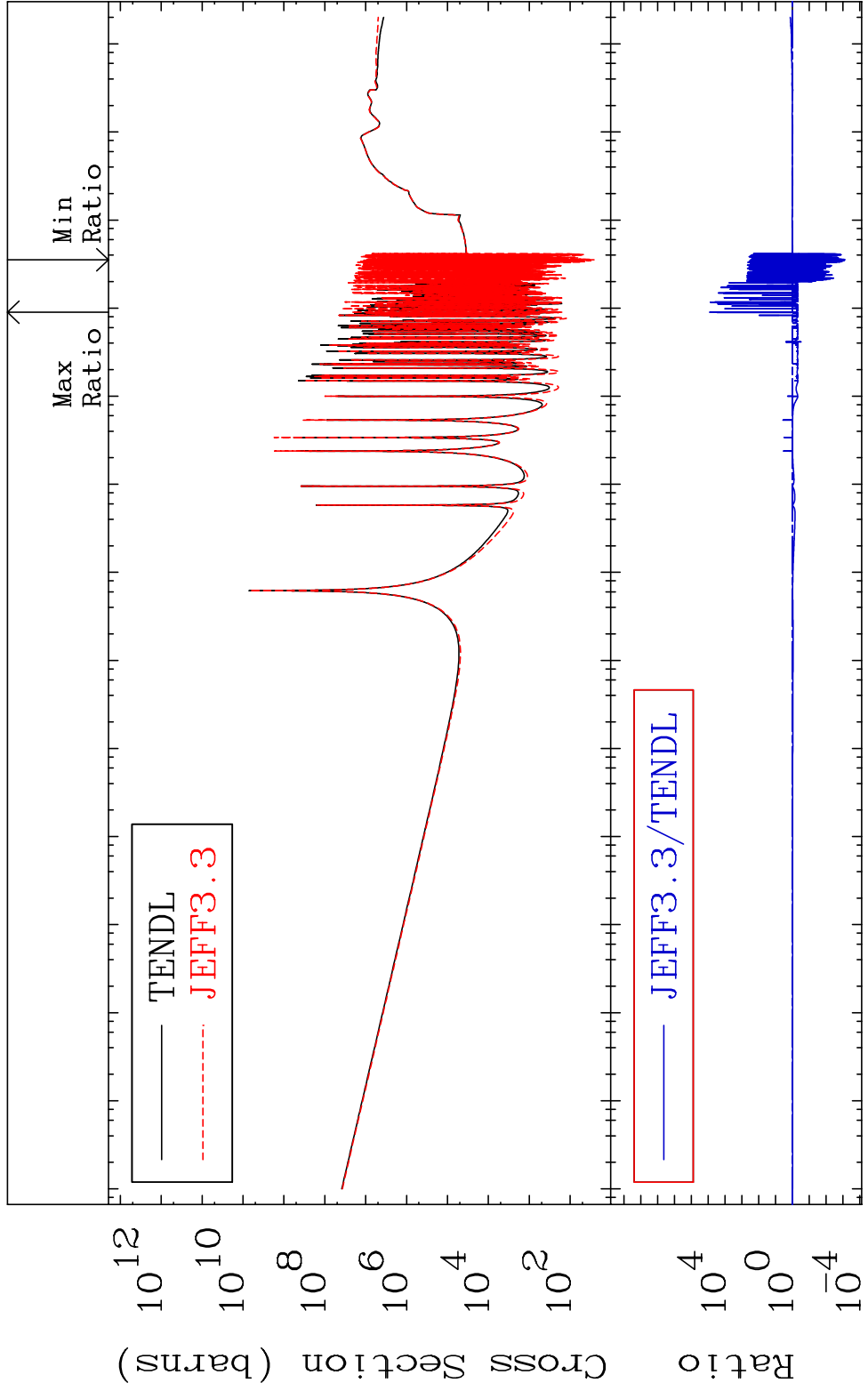


64

Incident Energy (eV)

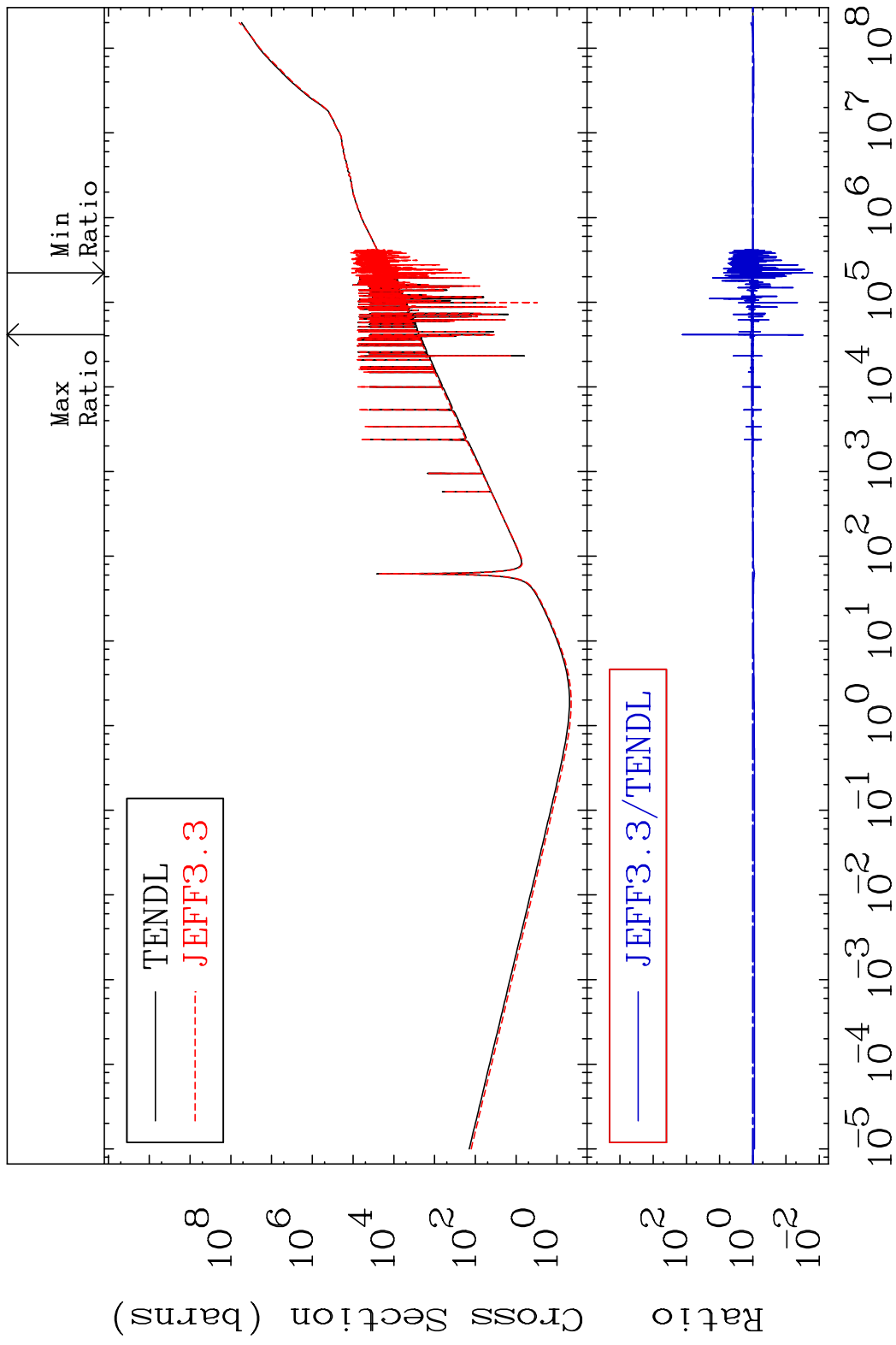
50-Sn-124

MAT 5061 Total photon (eV-barns) 50-Sn-124
 Cross Section -99.93 To 9999. %



65 Incident Energy (eV) 50-Sn-124

MAT 5061 Total kinematic kerma (high limit) 50-Sn-124
 Cross Section -98.42 To 9999. %

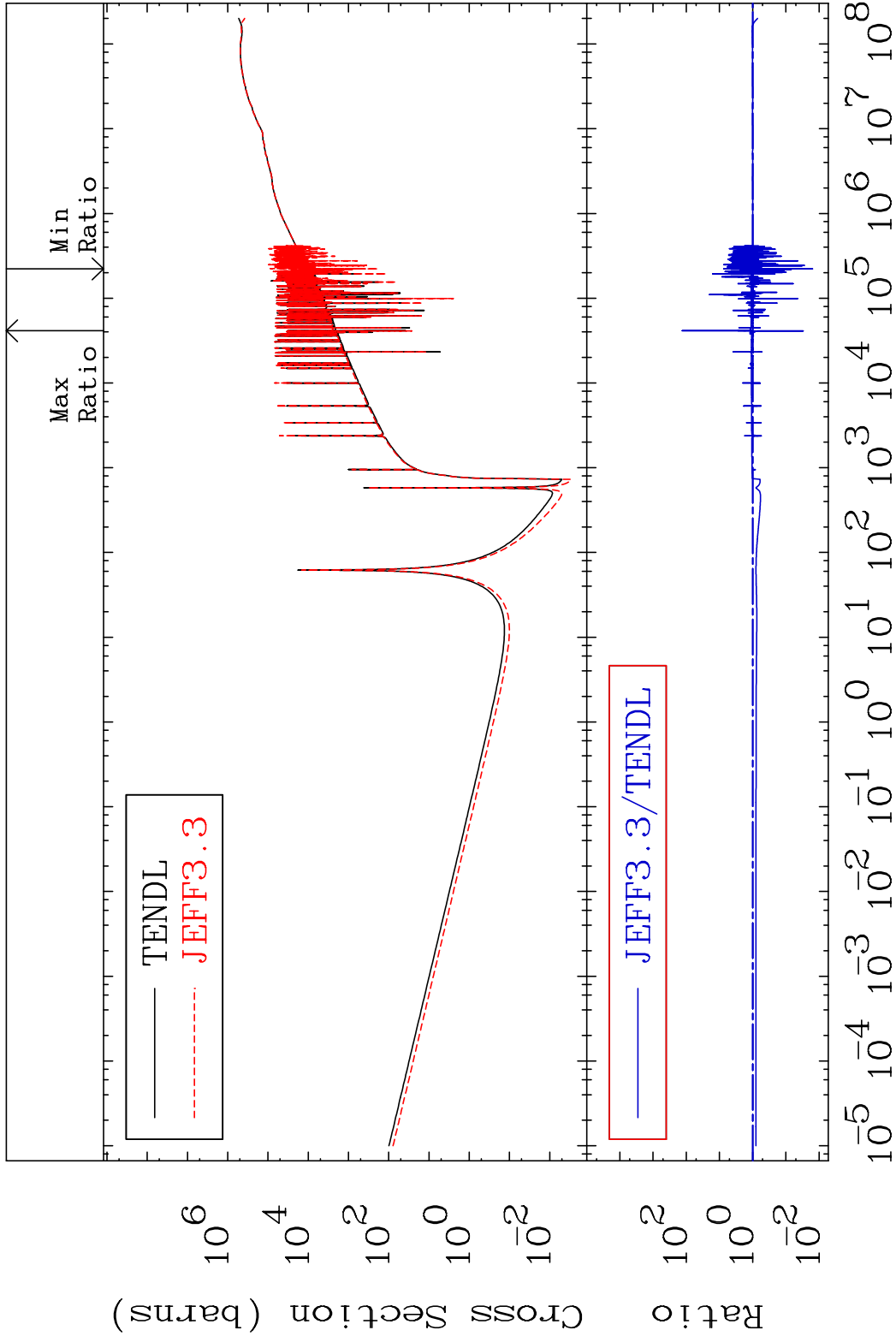


MAT 5061

Dpa total (eV-barns)

50-Sn-124

Cross Section -98.42 To 9999. %



67

Incident Energy (eV)

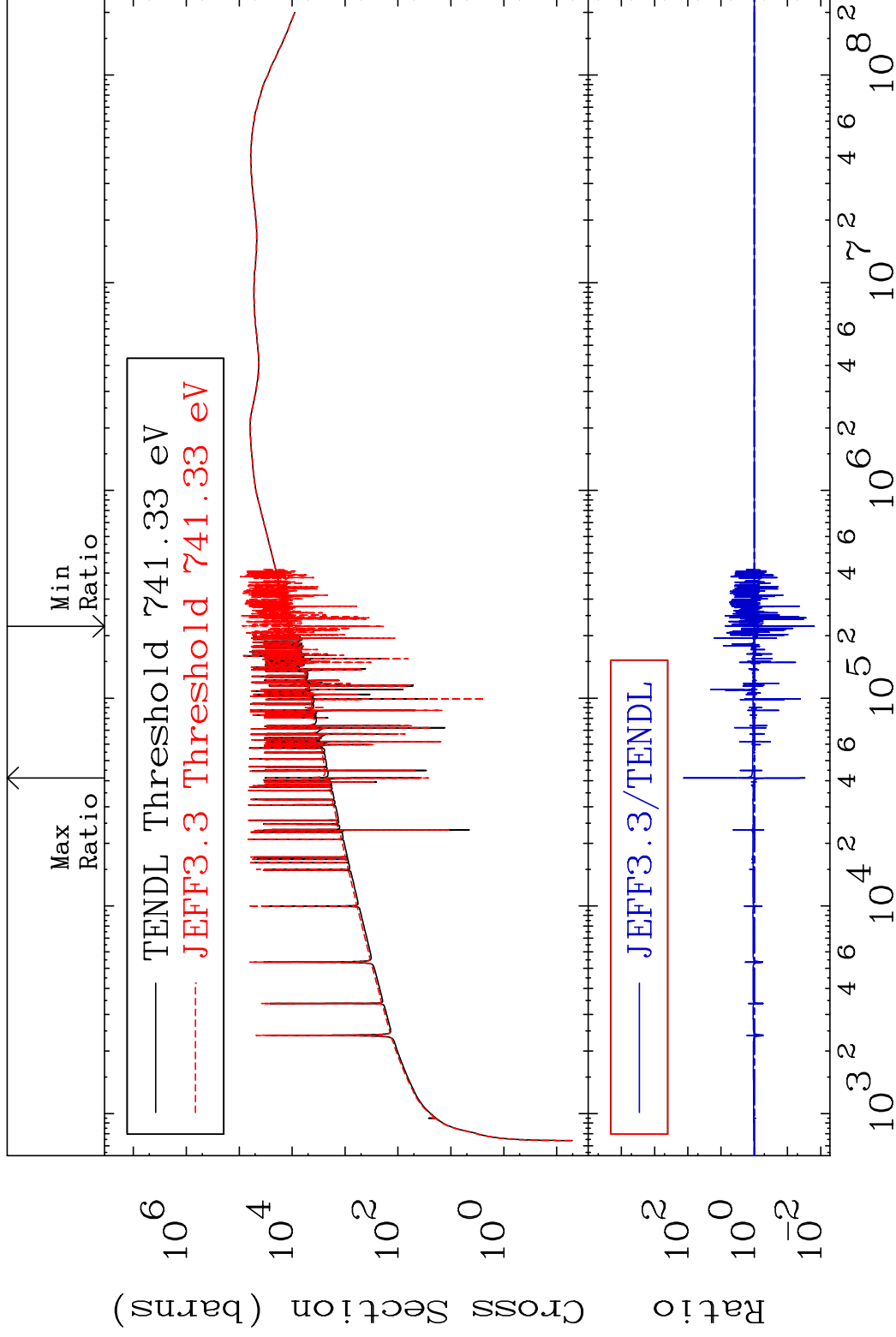
50-Sn-124

MAT 5061

Dpa elastic (mt2)

50-Sn-124

Cross Section -98.42 To 9999. %

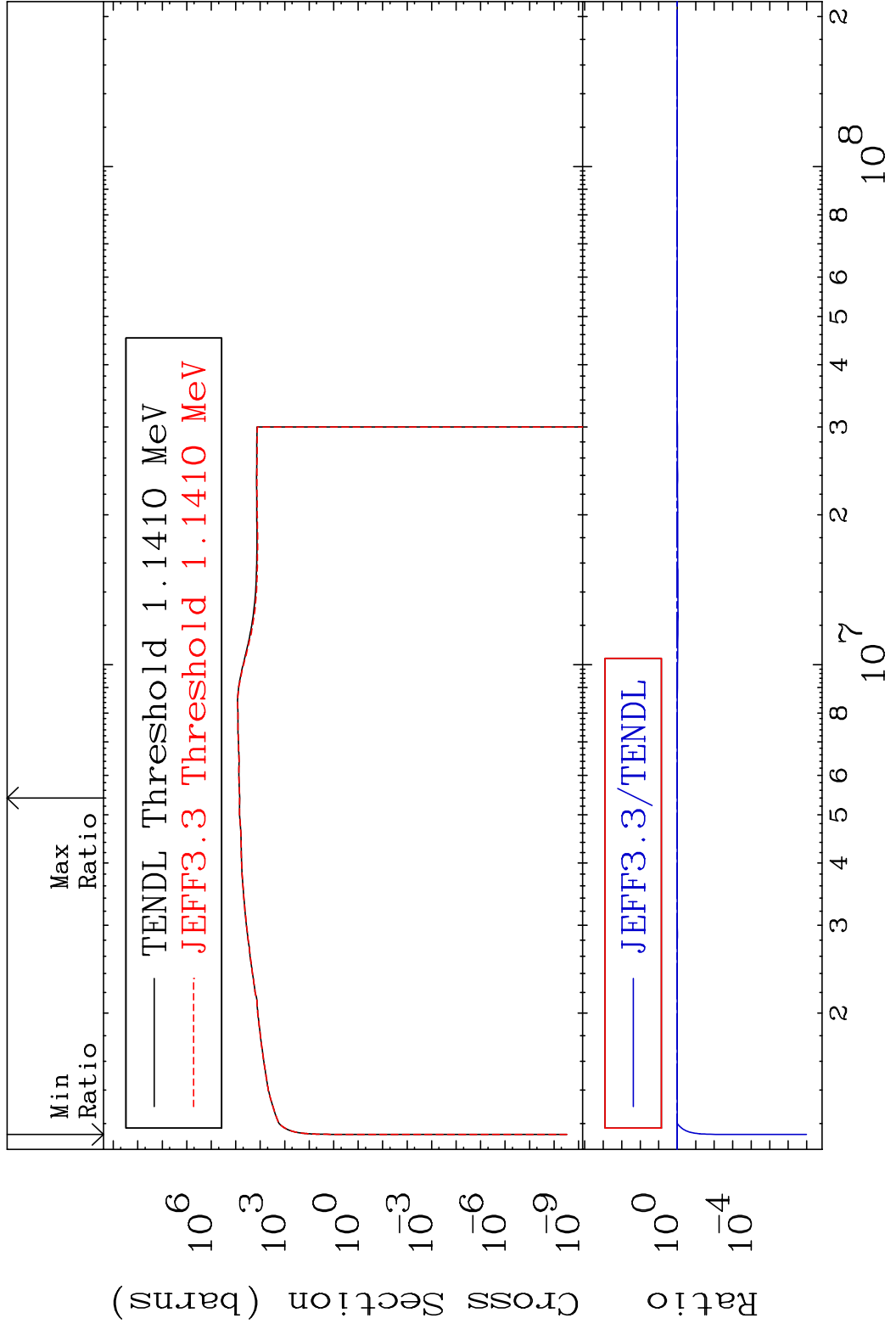


68

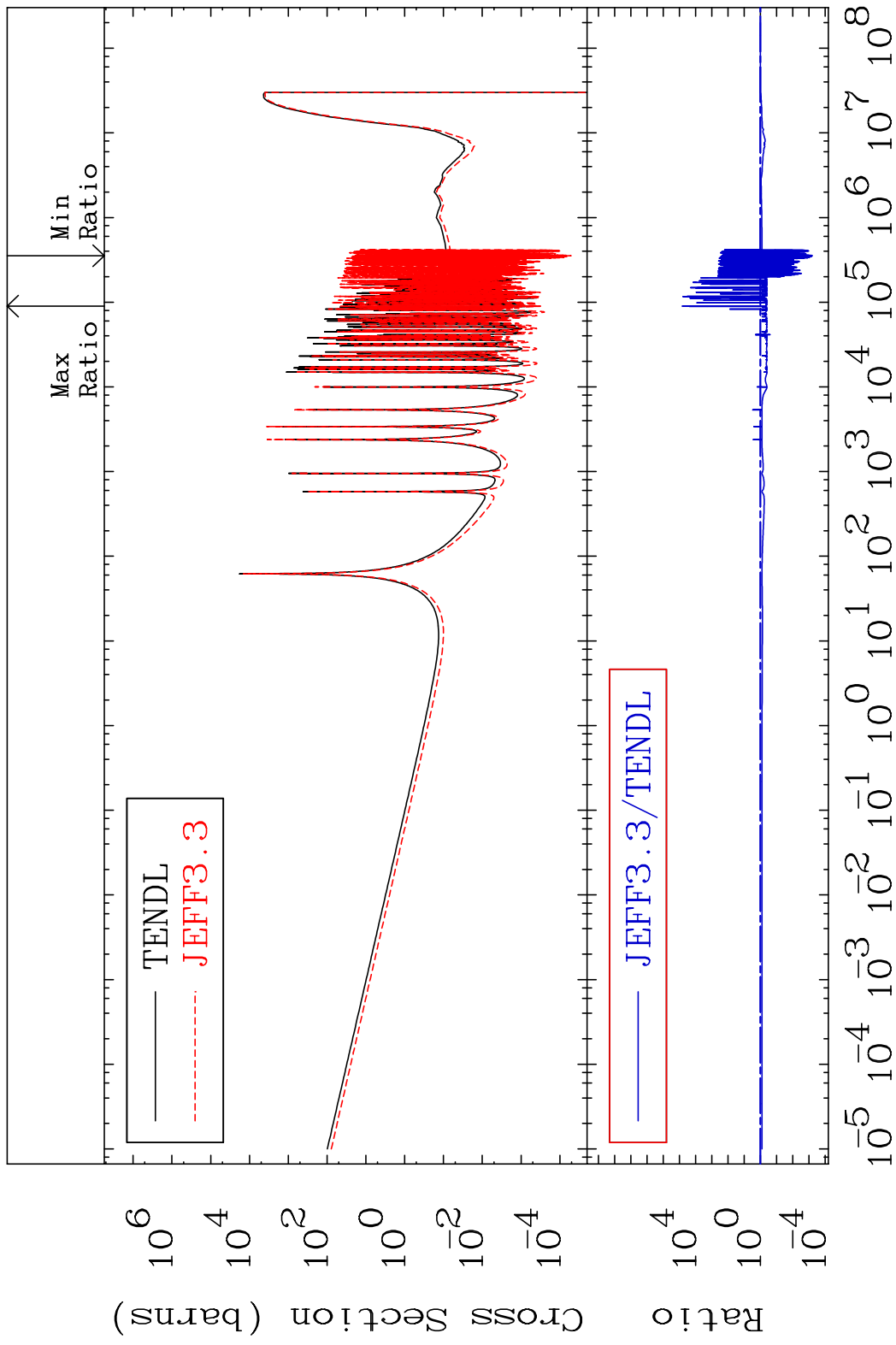
Incident Energy (eV)

50-Sn-124

MAT 5061 Dpa inelastic (mt51-91) 50-Sn-124
 Cross Section -100.0 To 0.510 %

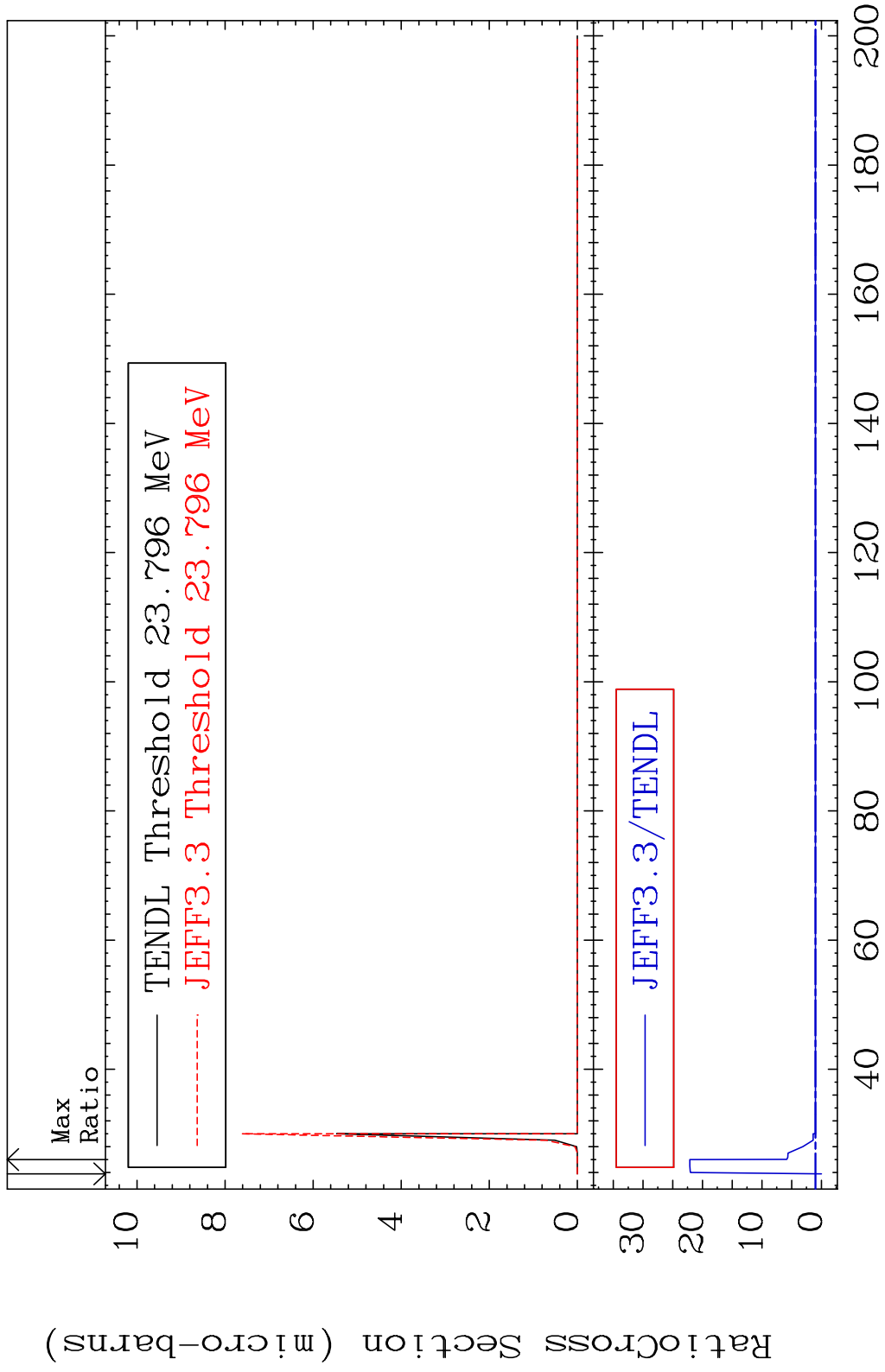


MAT 5061 Dpa disappearance (mt102 -120) 50-Sn-124
 Cross Section -99.94 To 9999. %

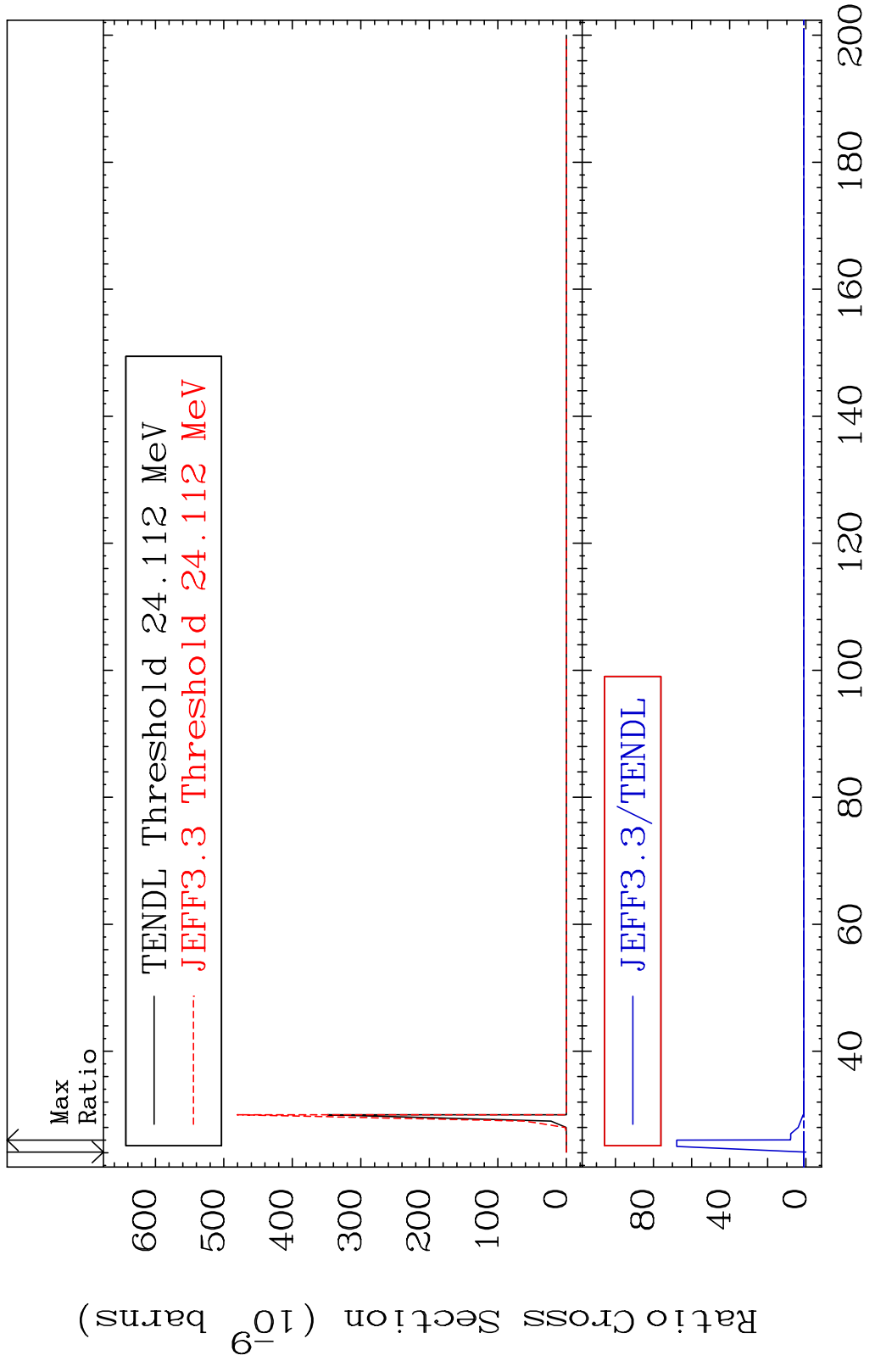


70 Incident Energy (eV) 50-Sn-124

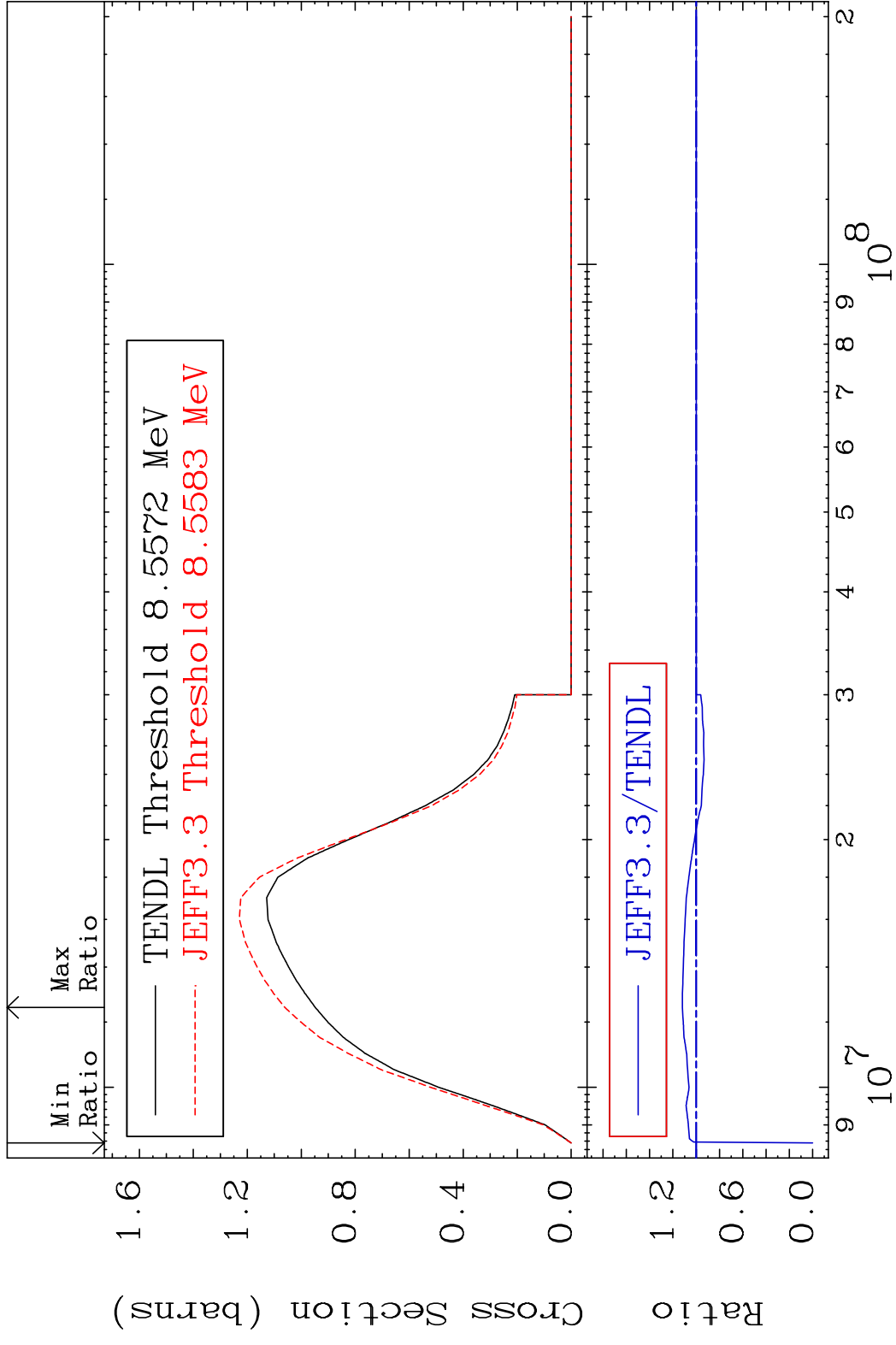
MAT 5061 (n,2n) d:49-In-121g 50-Sn-124
 Radionuclide Production Cross Section Ratio 2114. %



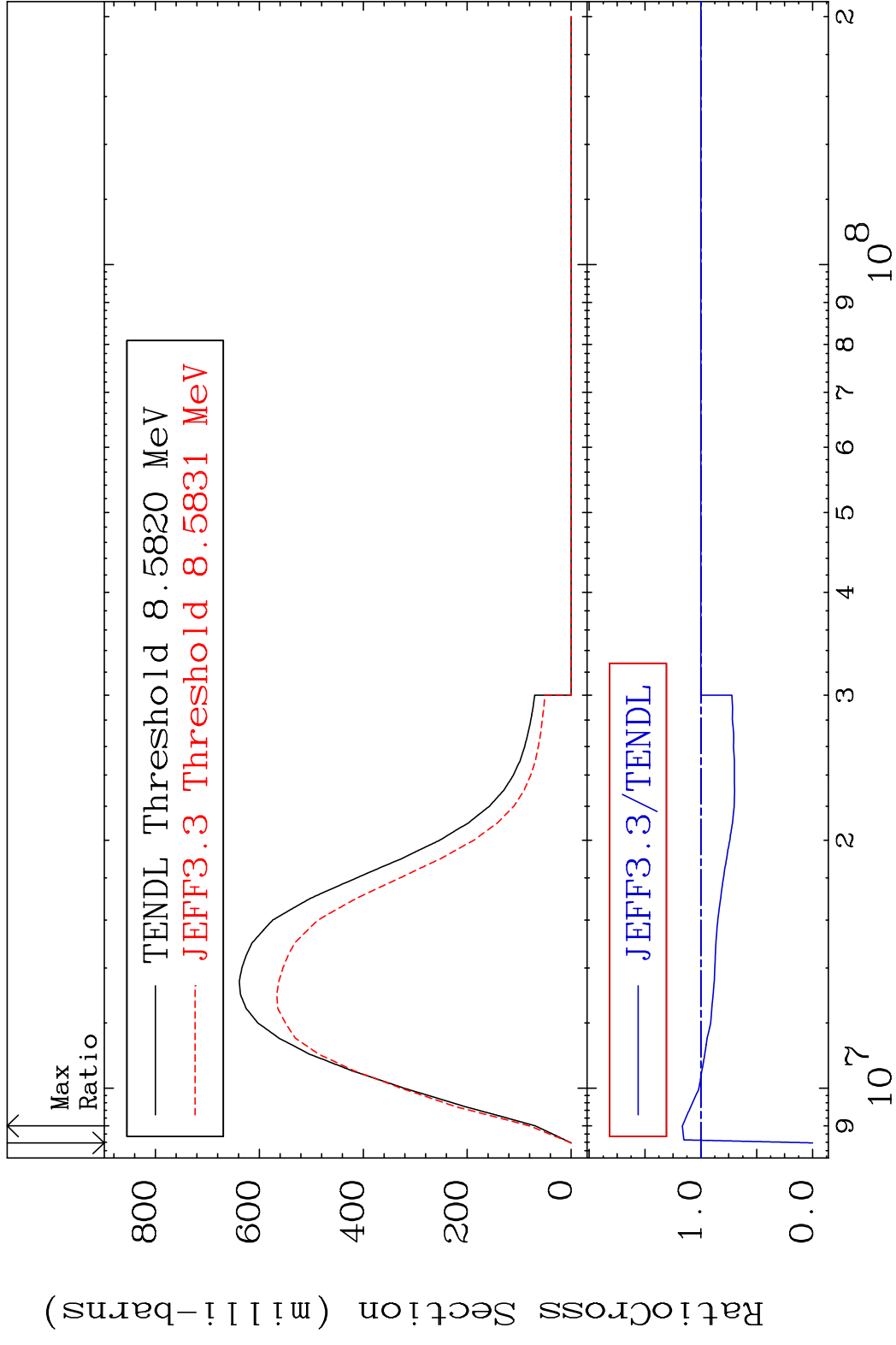
MAT 5061 (n,2n) d:49-In-121m1 50-Sn-124
 Radionuclide Production Cross Section Ratio 6682. %



MAT 5061 (n,2n):50-Sn-123g 50-Sn-124
 Radionuclide Production Cross Section 18.00 dth 11.90 %

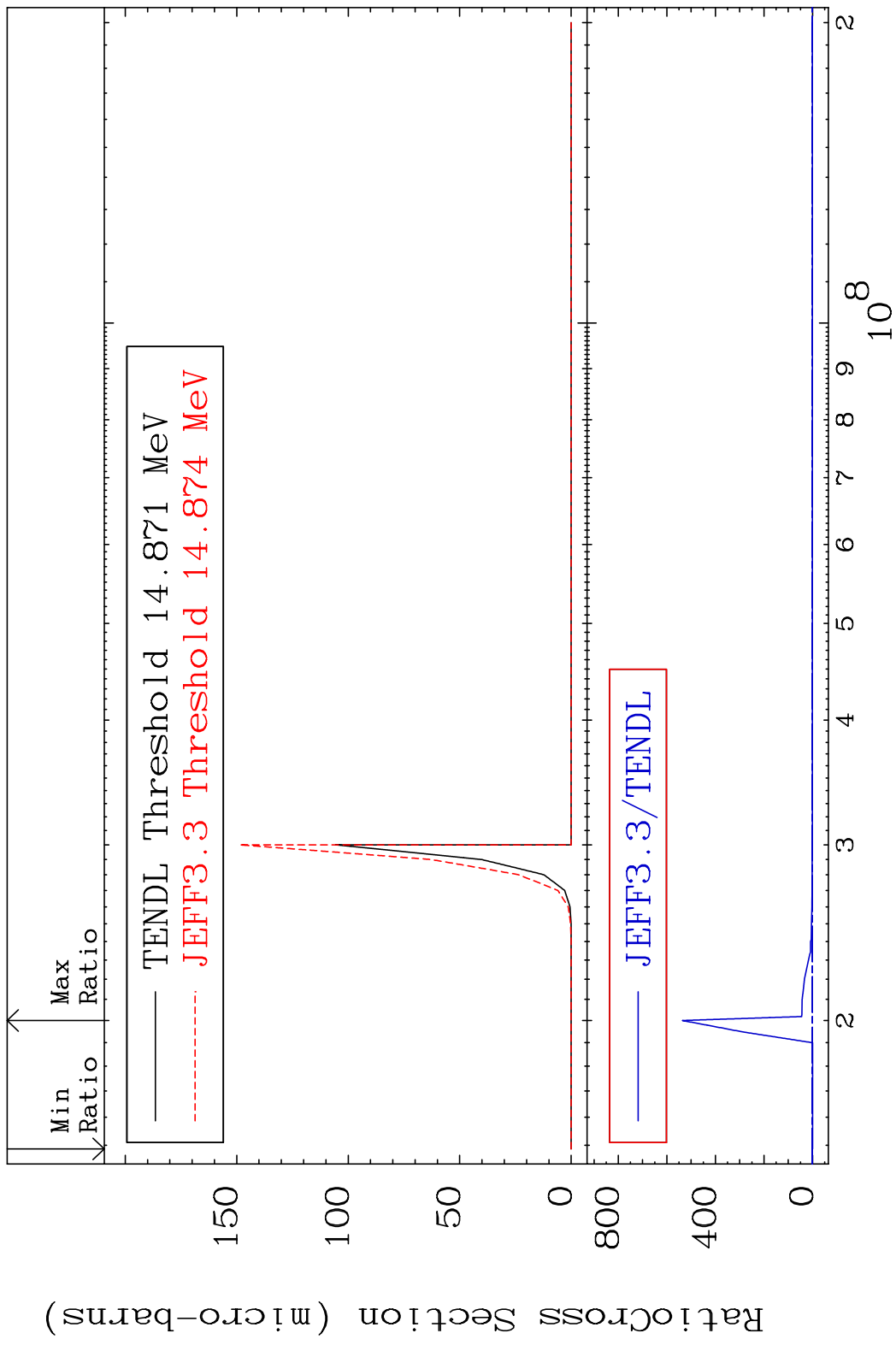


MAT 5061 (n,2n):50-Sn-123m1 50-Sn-124
 Radionuclide Production Cross Section 180.01 dth 16.58 %



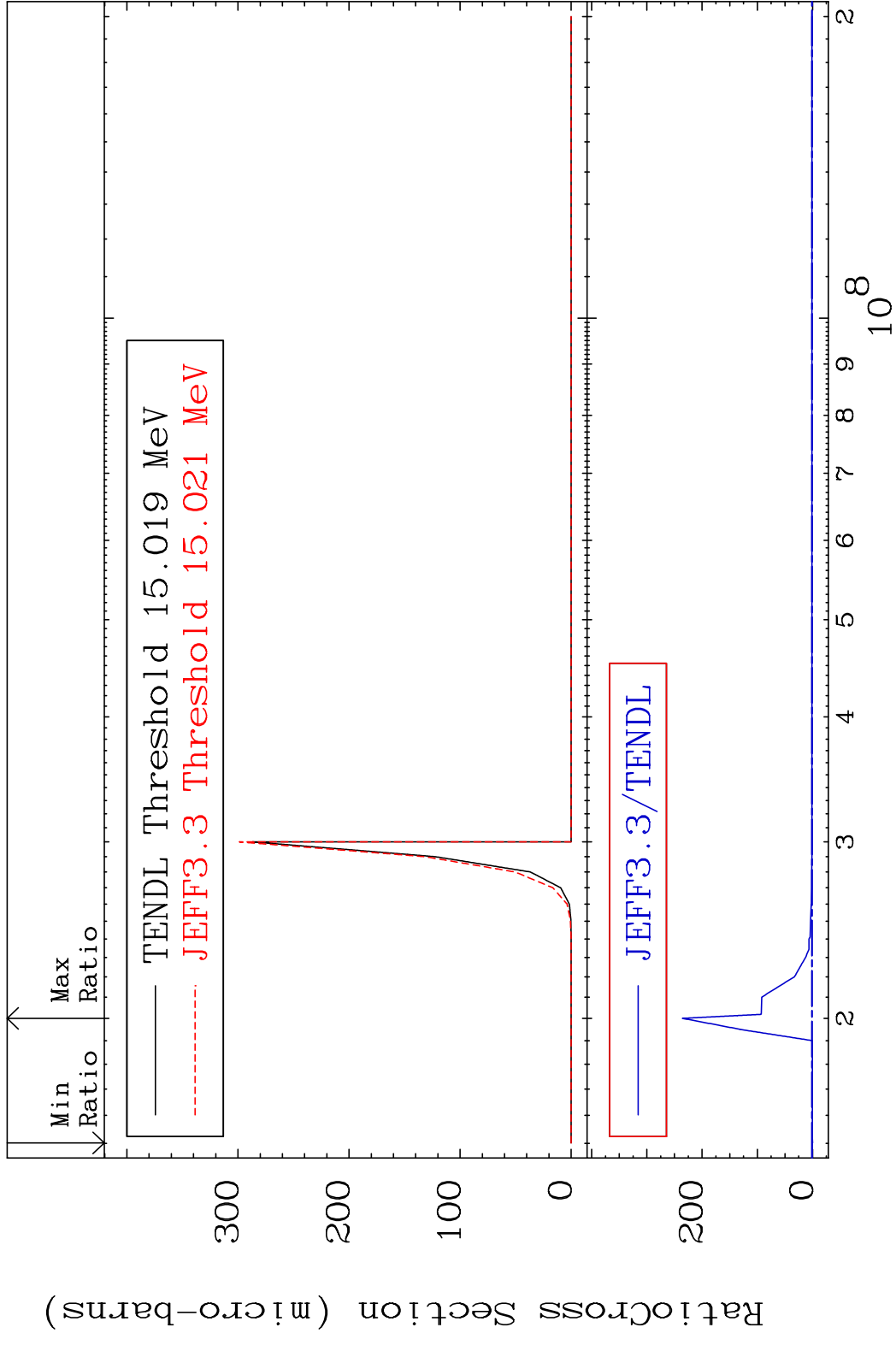
74 Incident Energy (eV) 50-Sn-124

MAT 5061 (n,2n) α :48-Cd-119g 50-Sn-124
 Radionuclide Production Cross Section (%)

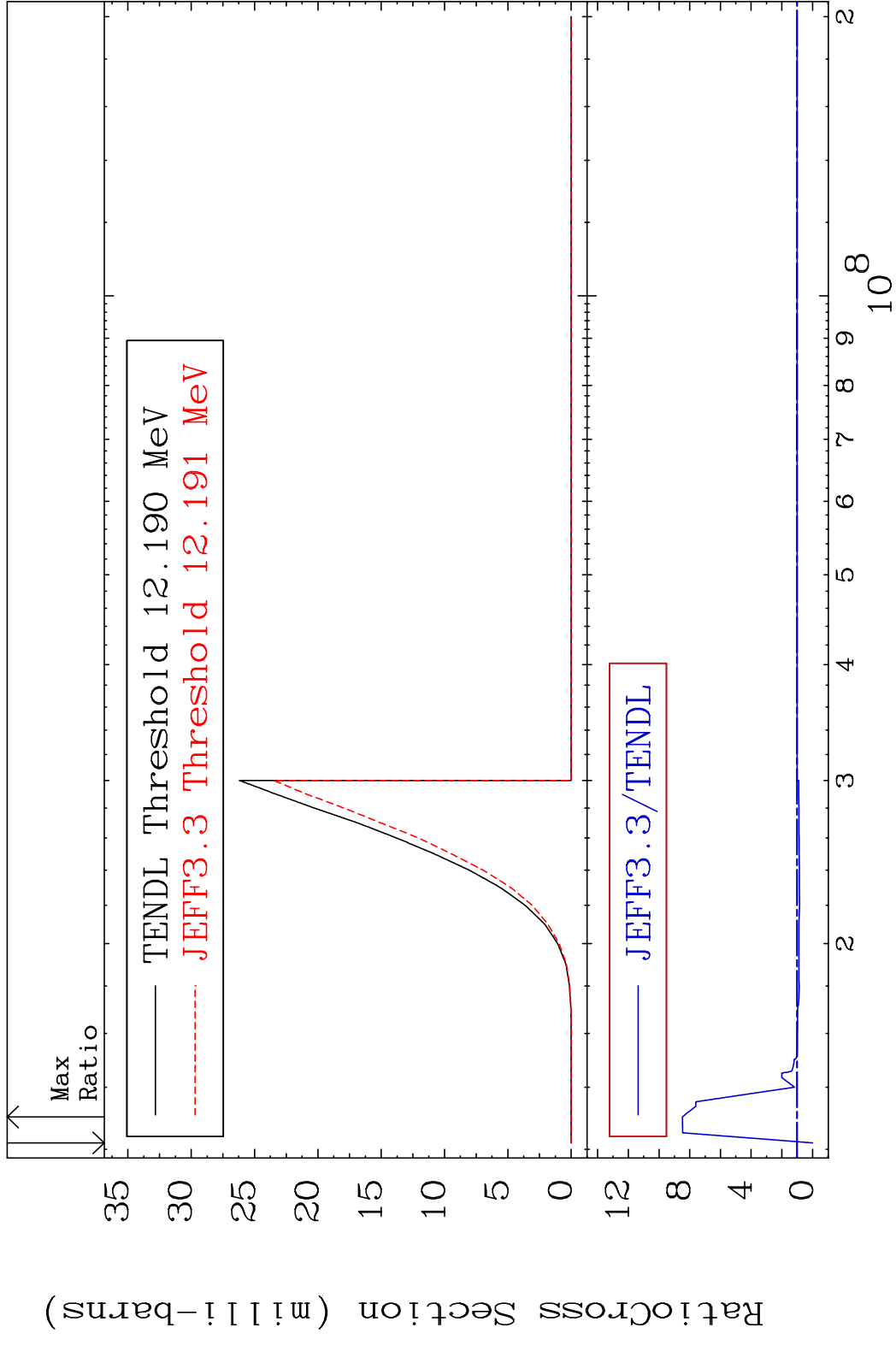


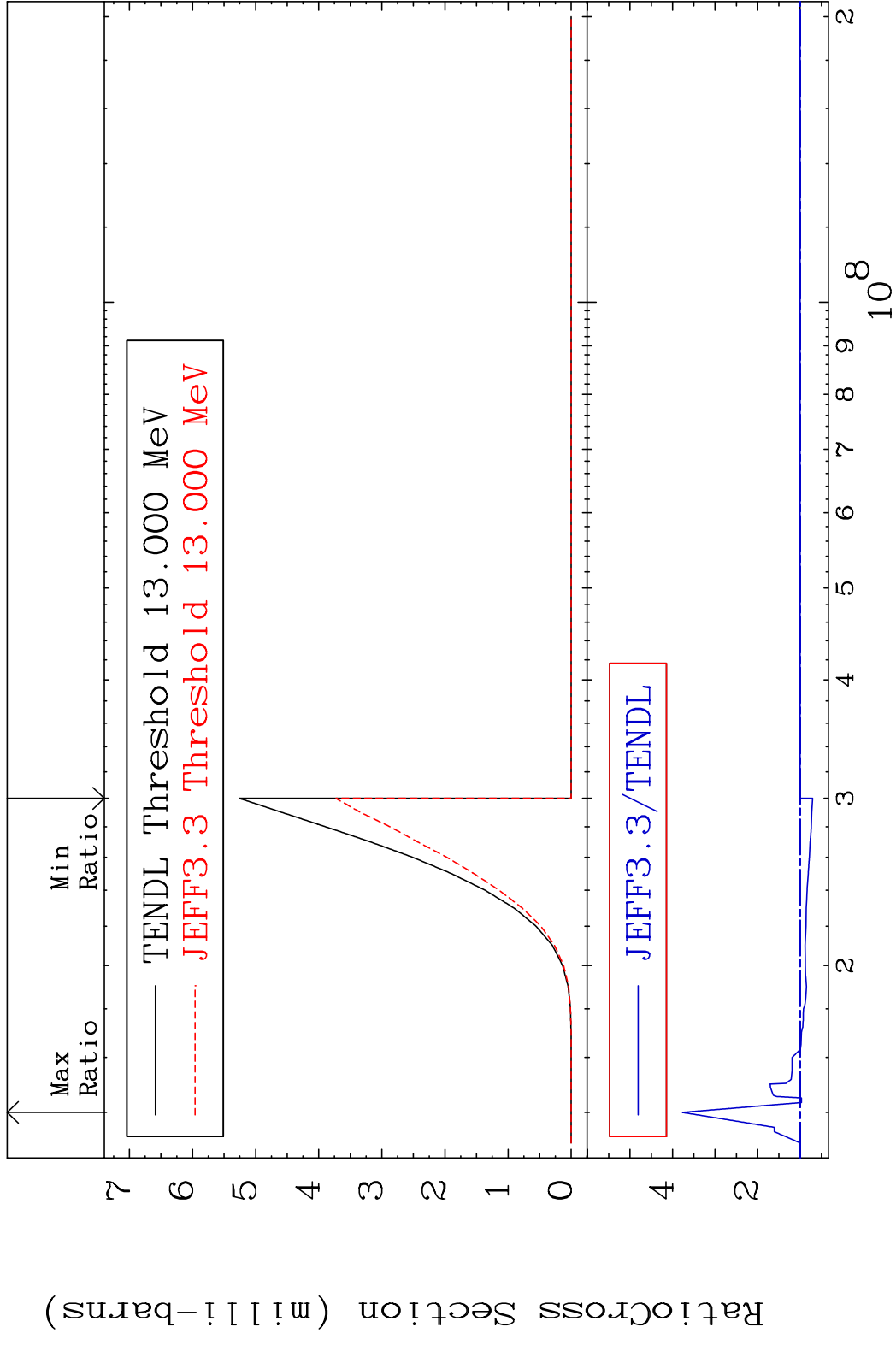
75 Incident Energy (eV) 50-Sn-124

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

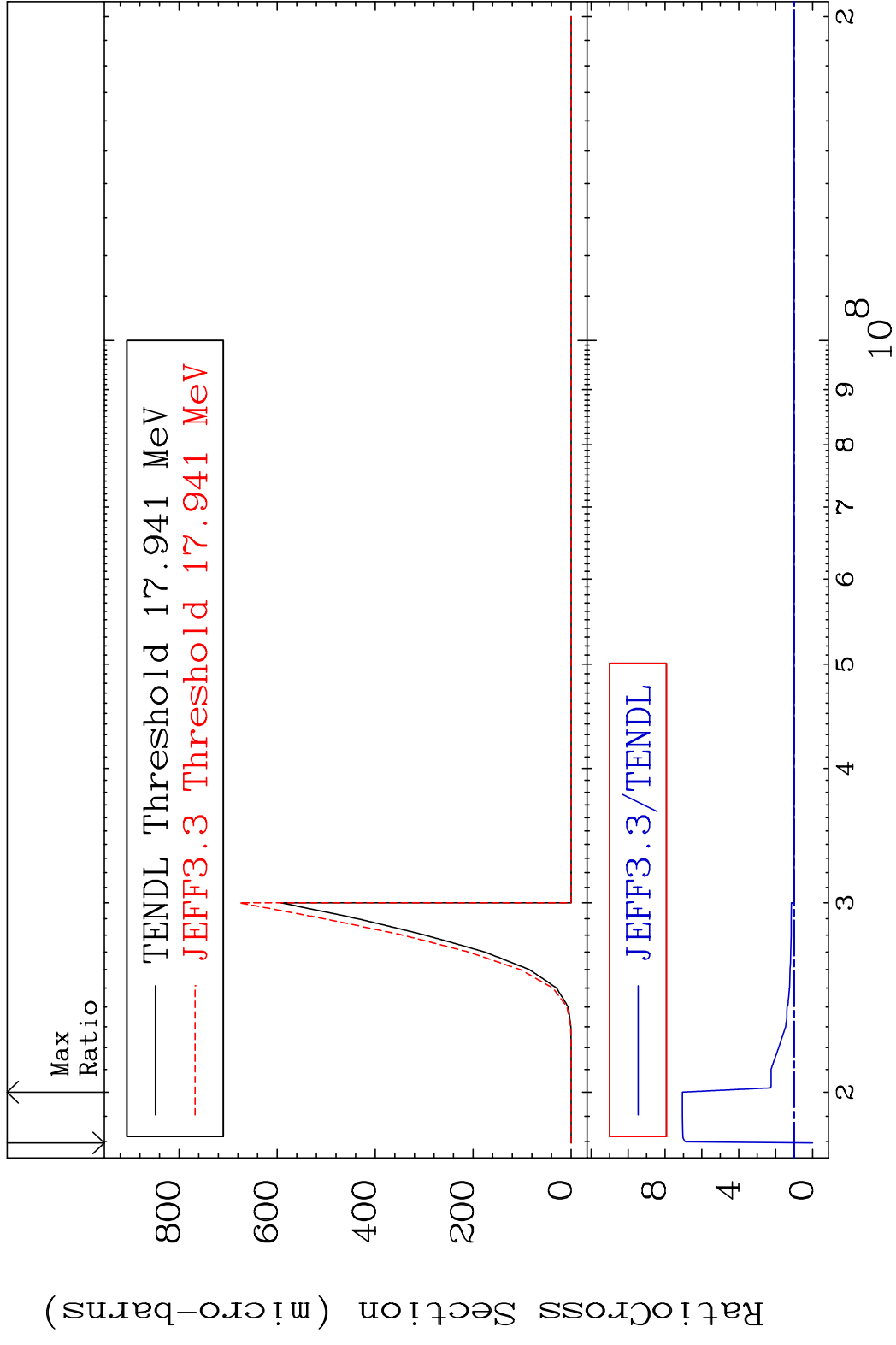


MAT 5061 (n, n') p:49-In-123g 50-Sn-124
 Radionuclide Production Cross Section 180.01 dth 748.1 %

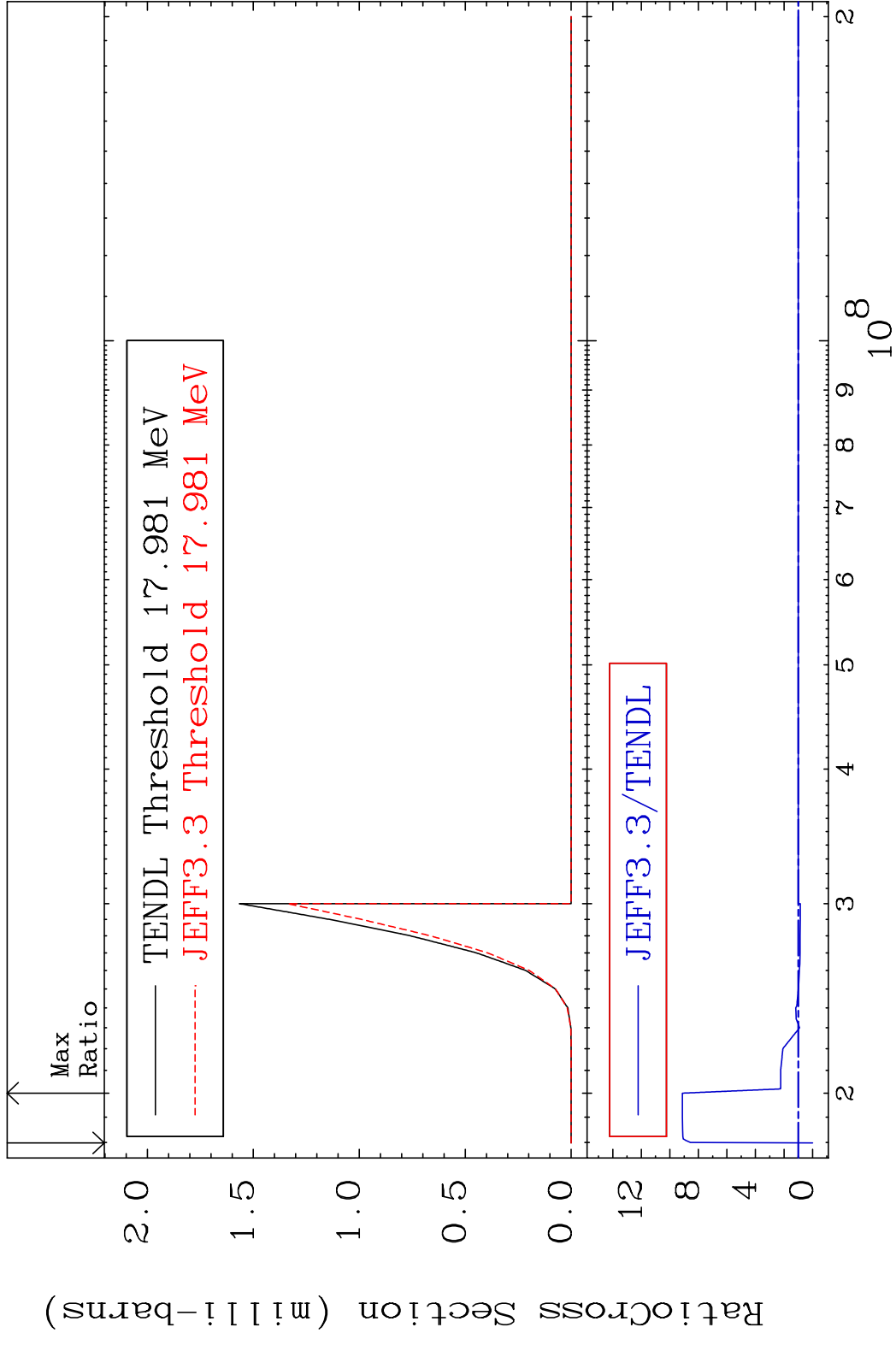


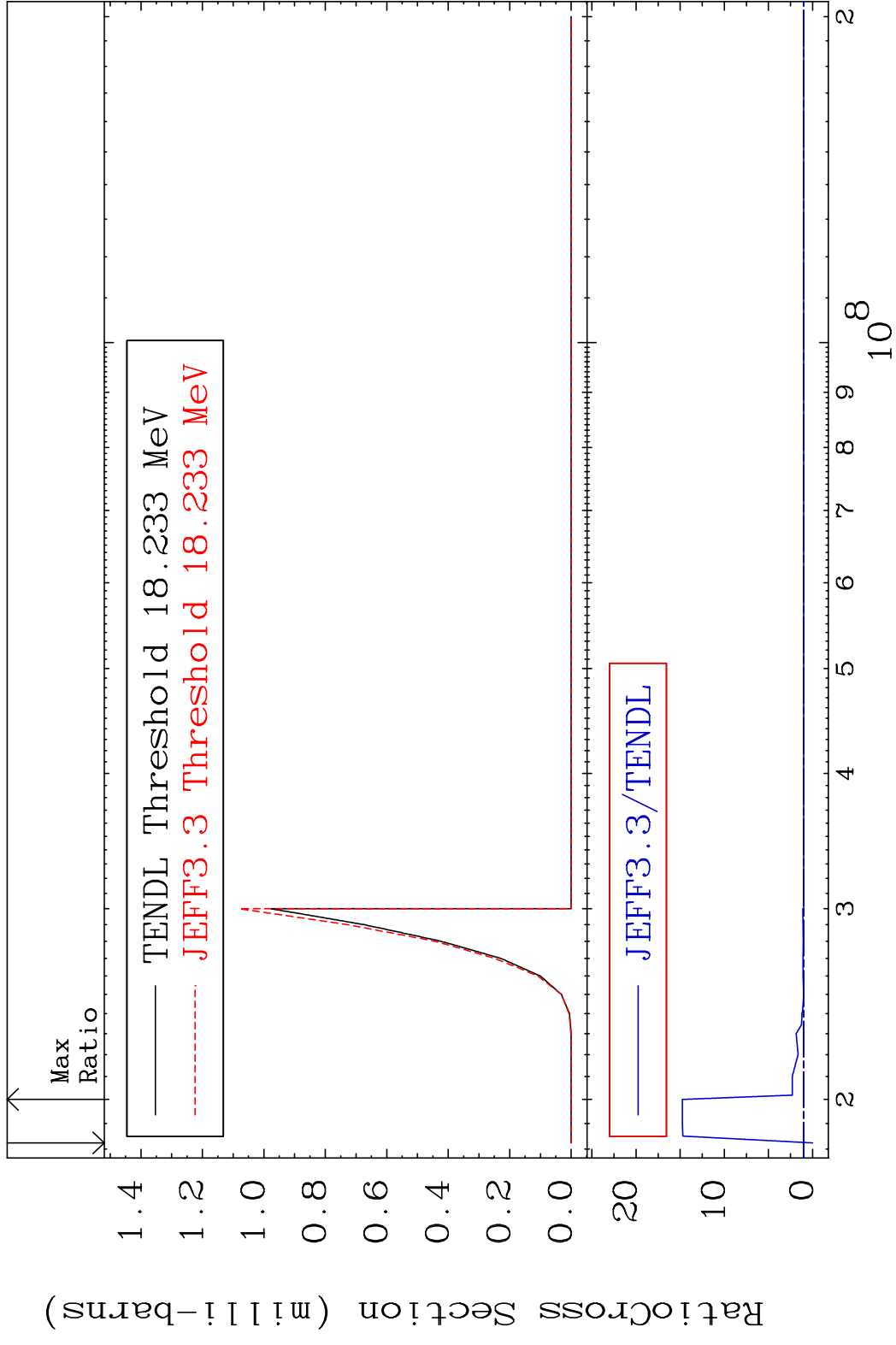


MAT 5061 (n, n') d:49-In-122g 50-Sn-124
 Radionuclide Production Cross Section 180.0 d to 605.9 %

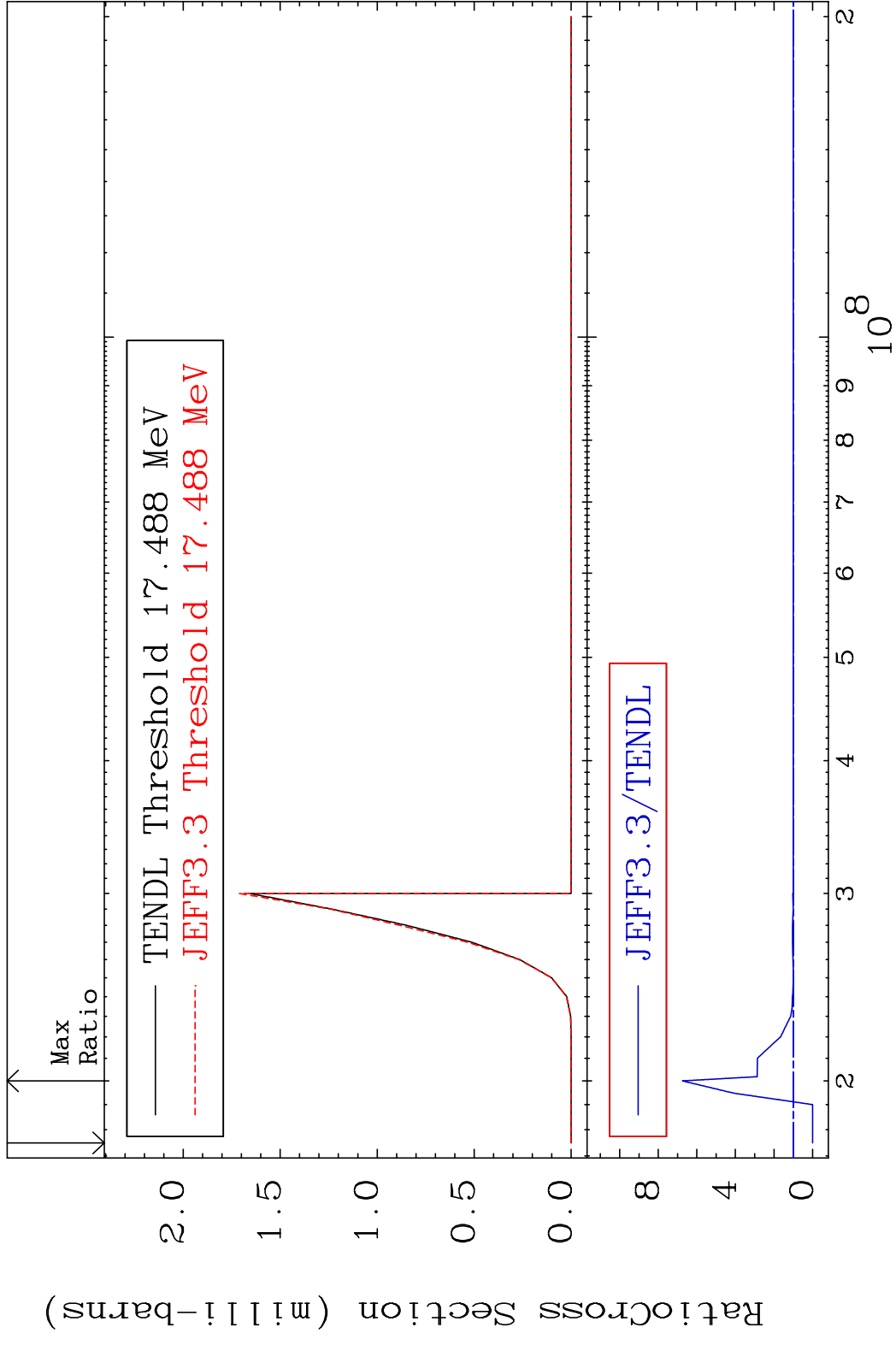


MAT 5061 (n, n') d:49-In-122m1 50-Sn-124
 Radionuclide Production Cross Section 180.01 dth 812.4 %

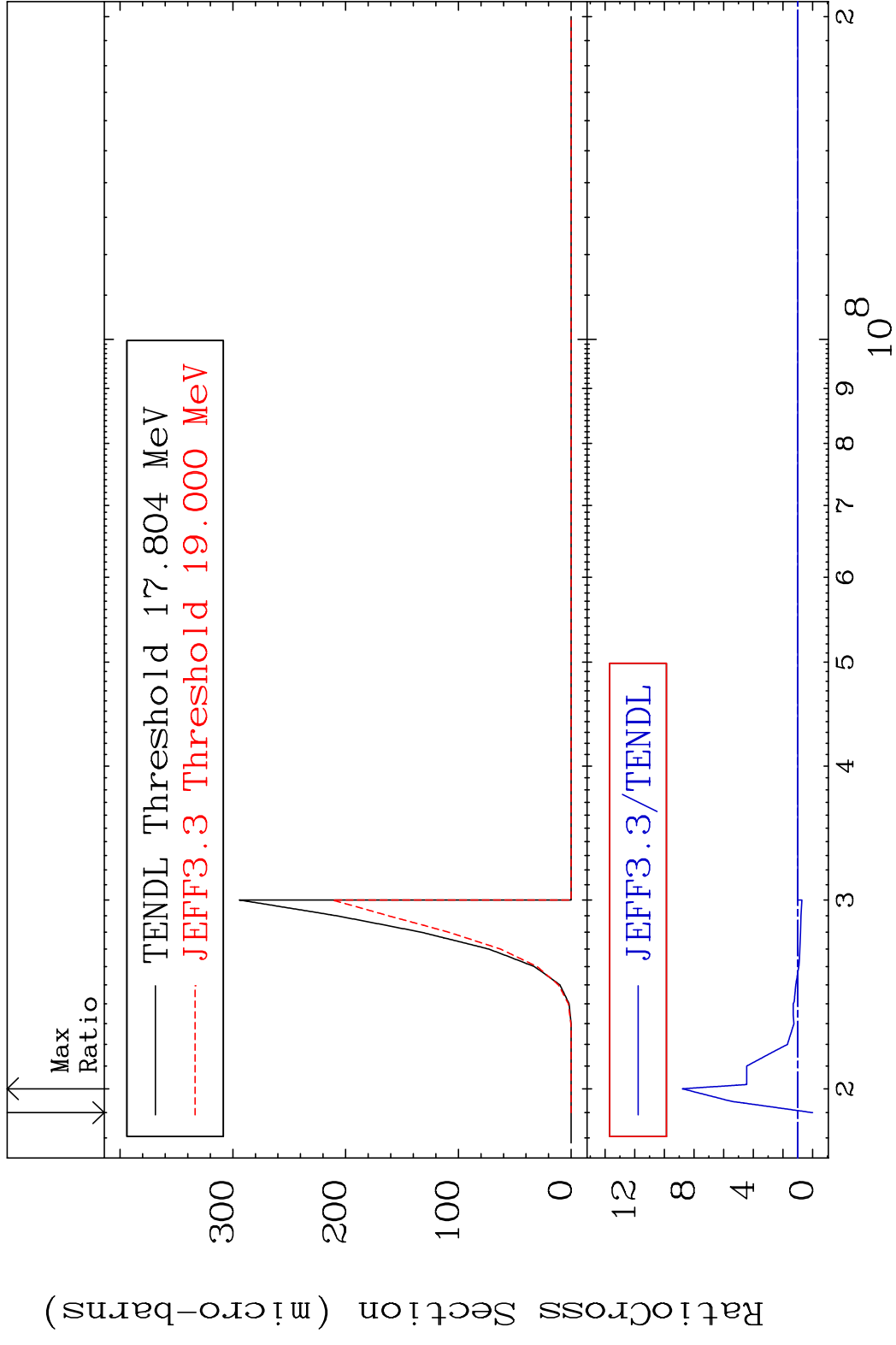




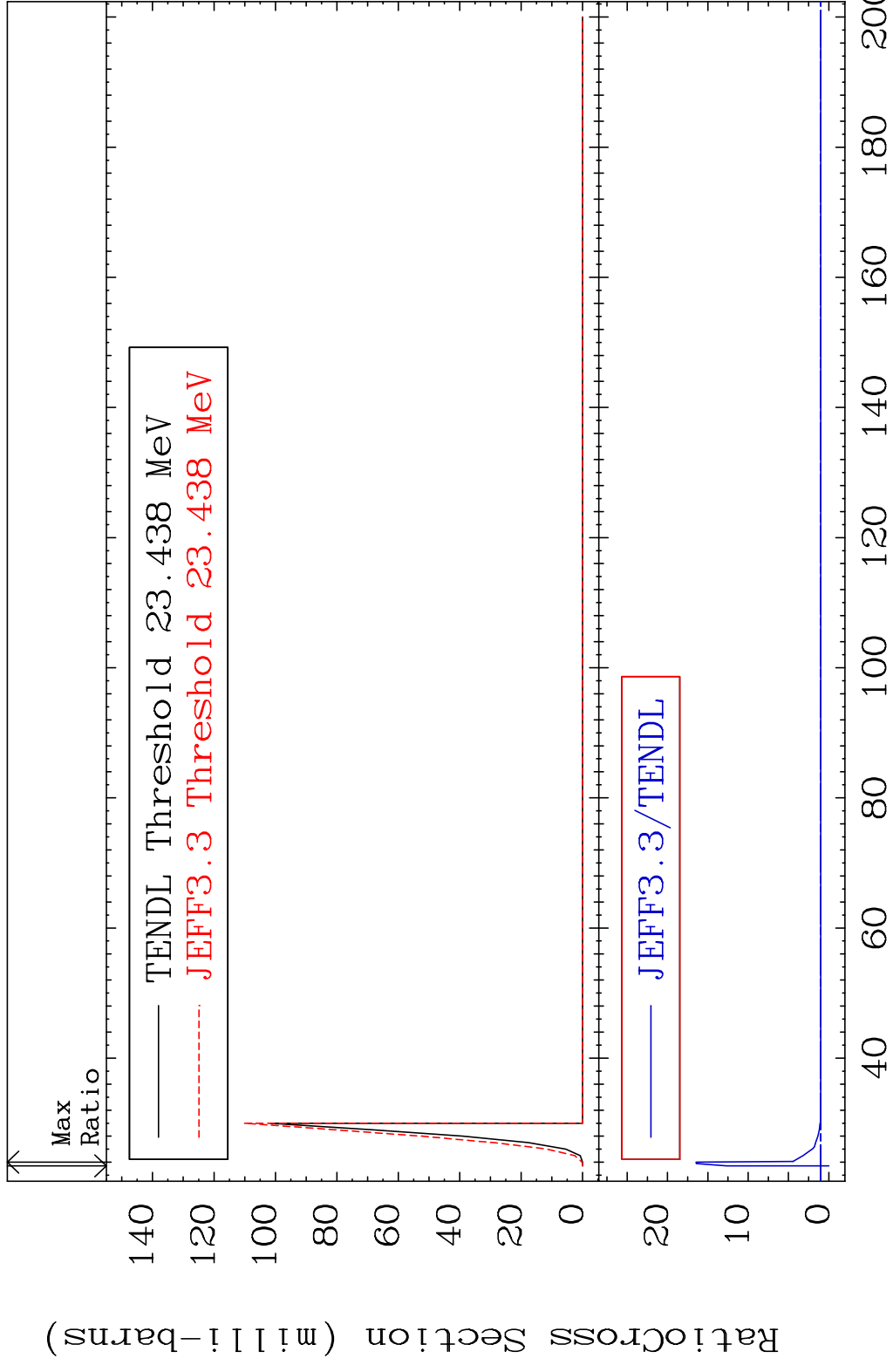
MAT 5061 (n, n') t:49-In-121g 50-Sn-124
 Radionuclide Production Cross Section 180.0 dth 575.0 %



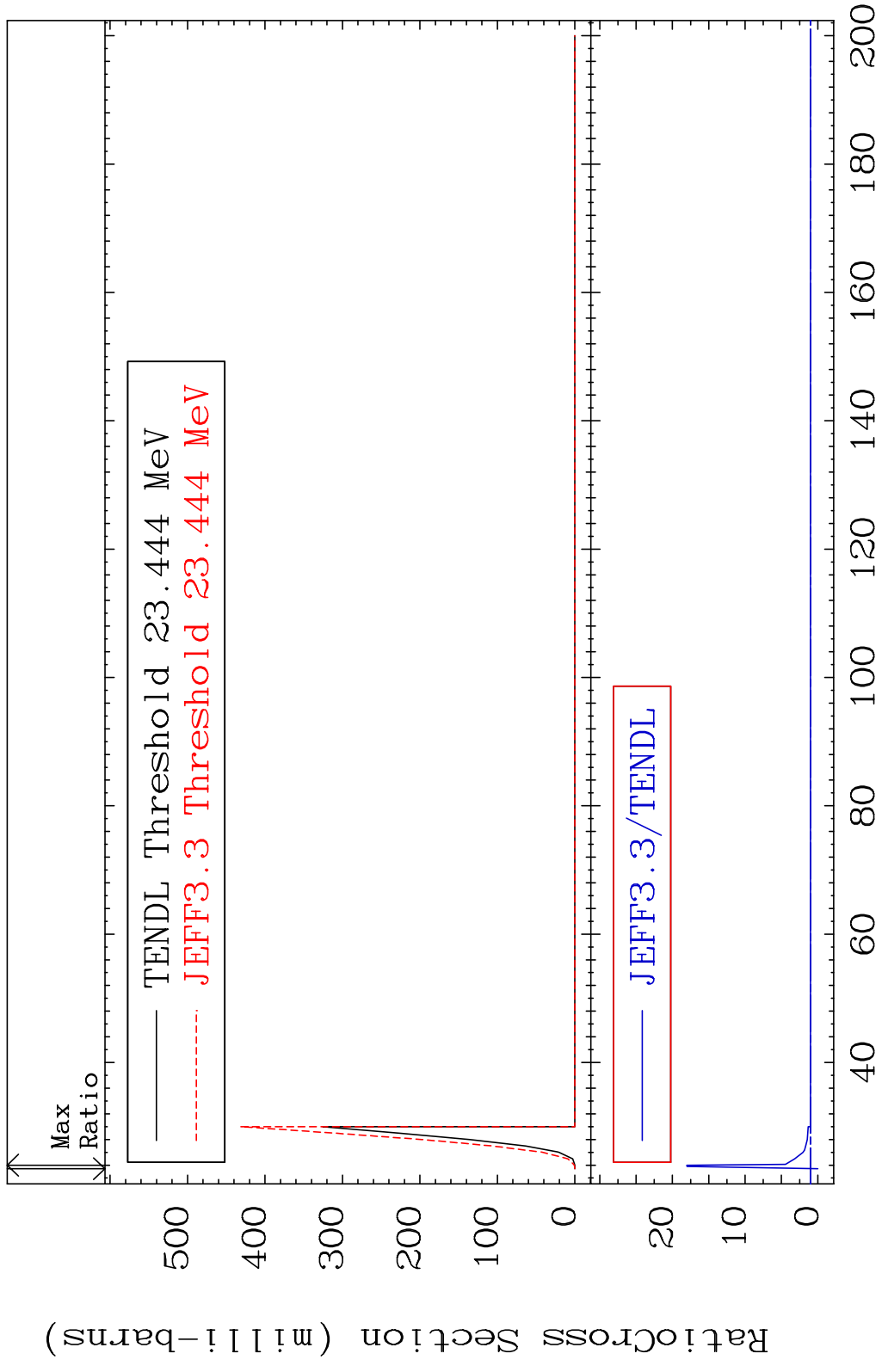
MAT 5061 (n, n') t:49-In-121m1 50-Sn-124
 Radionuclide Production Cross Section 180.0 dth 778.9 %



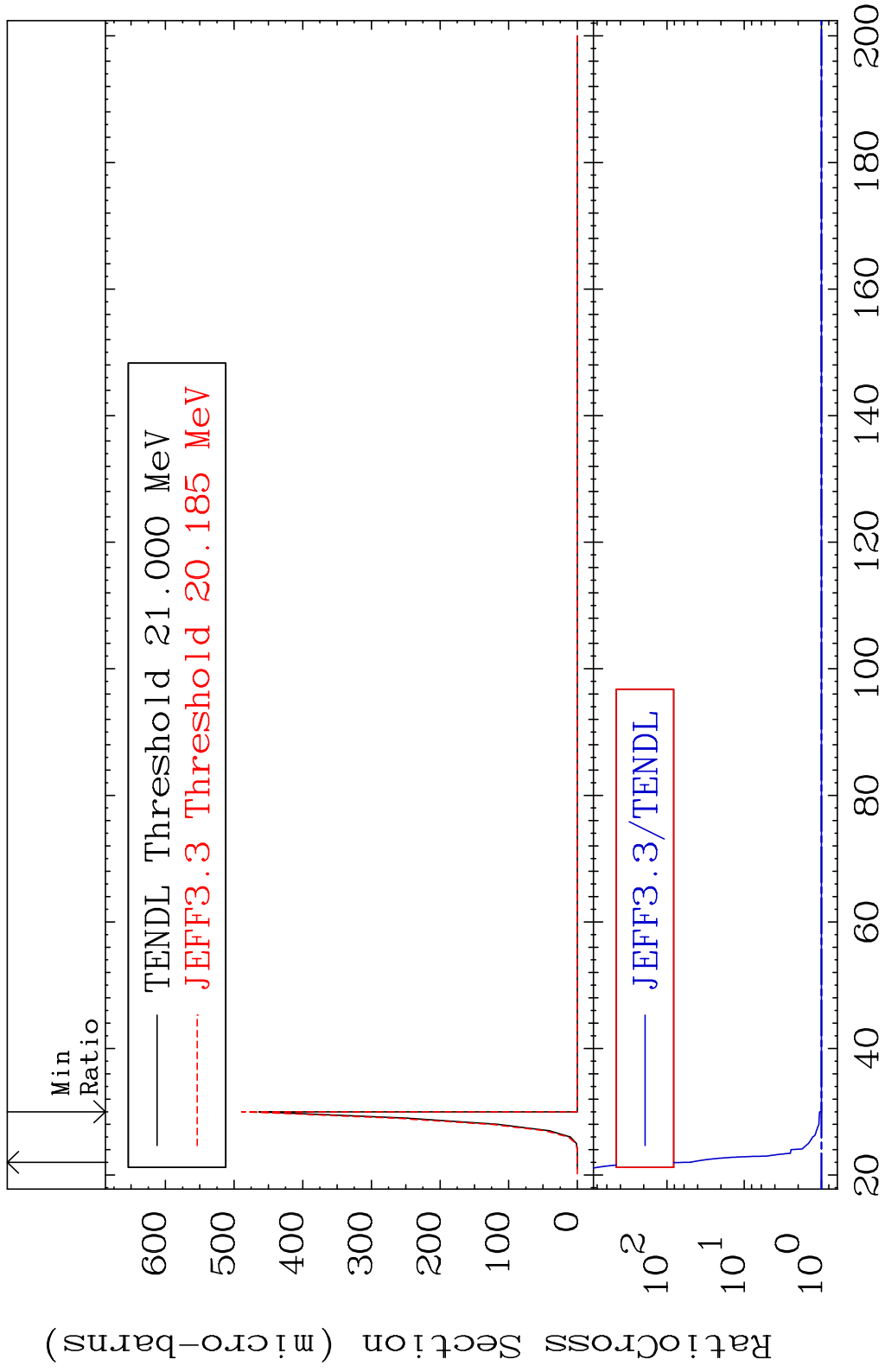
MAT 5061 (n,4n):50-Sn-121g 50-Sn-124
 Radionuclide Production Cross Section 1547. %

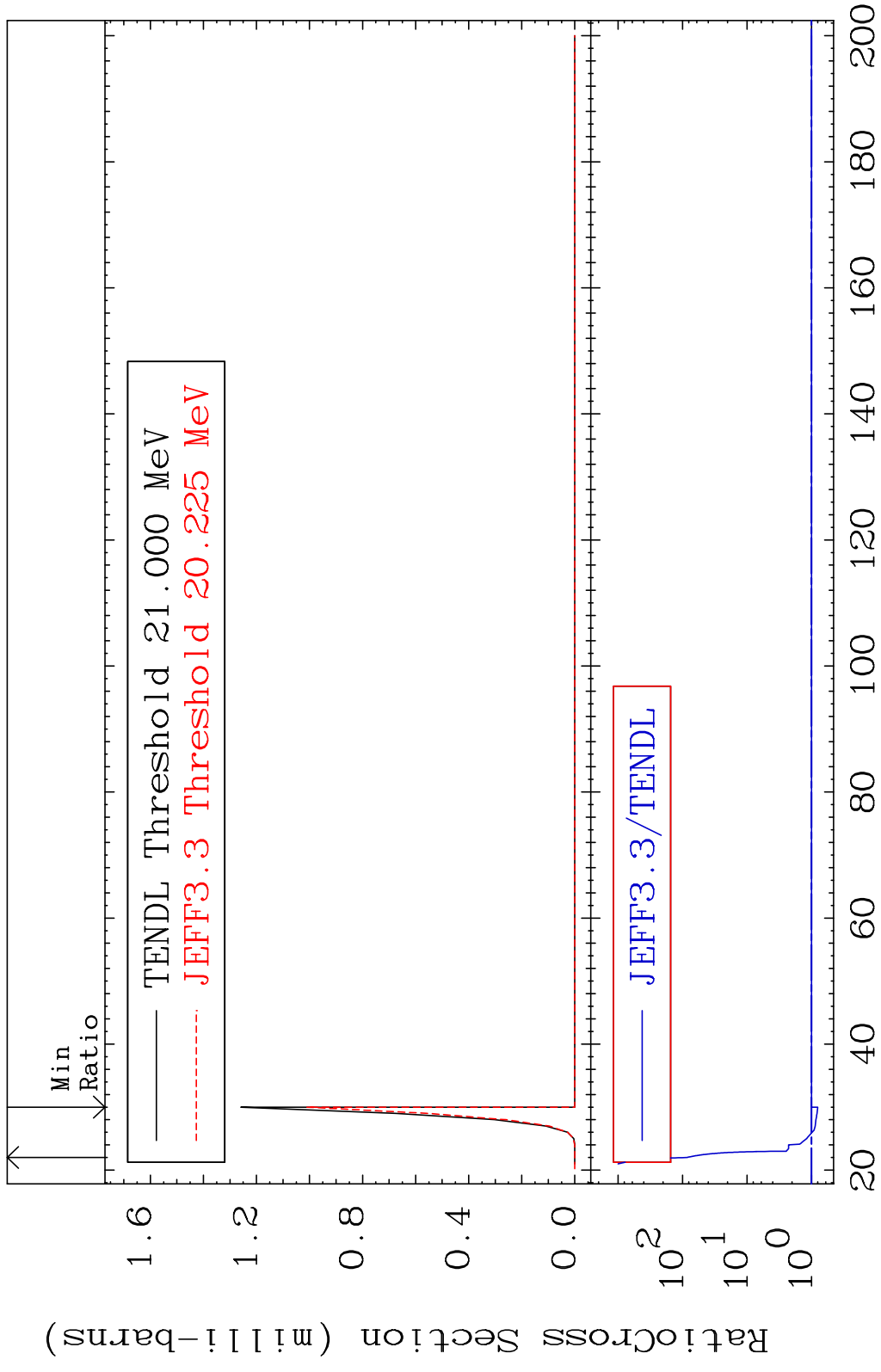


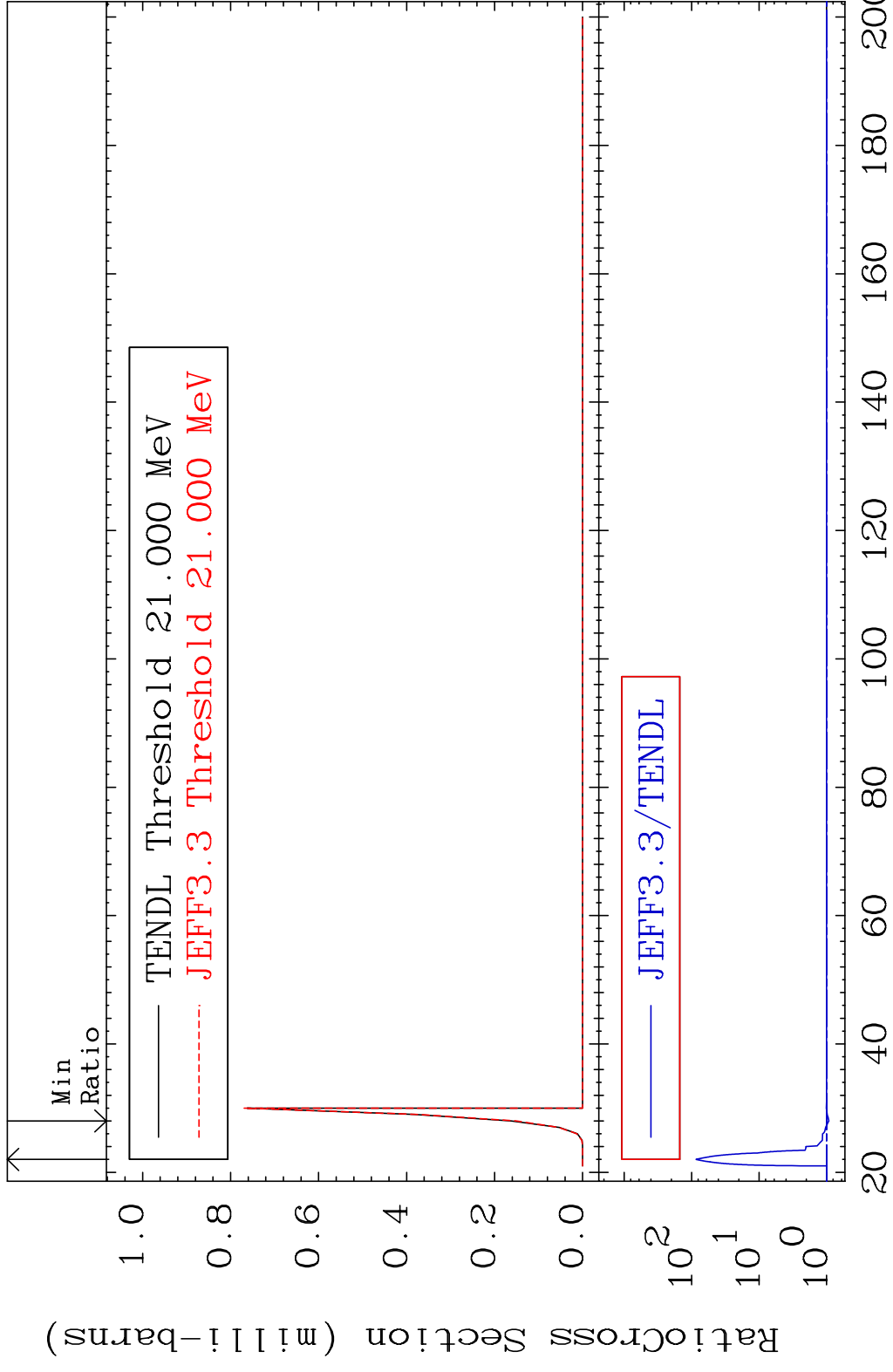
MAT 5061 (n, 4n):50-Sn-121m1 50-Sn-124
 Radionuclide Production Cross Section 1800.0 dth 1703. %



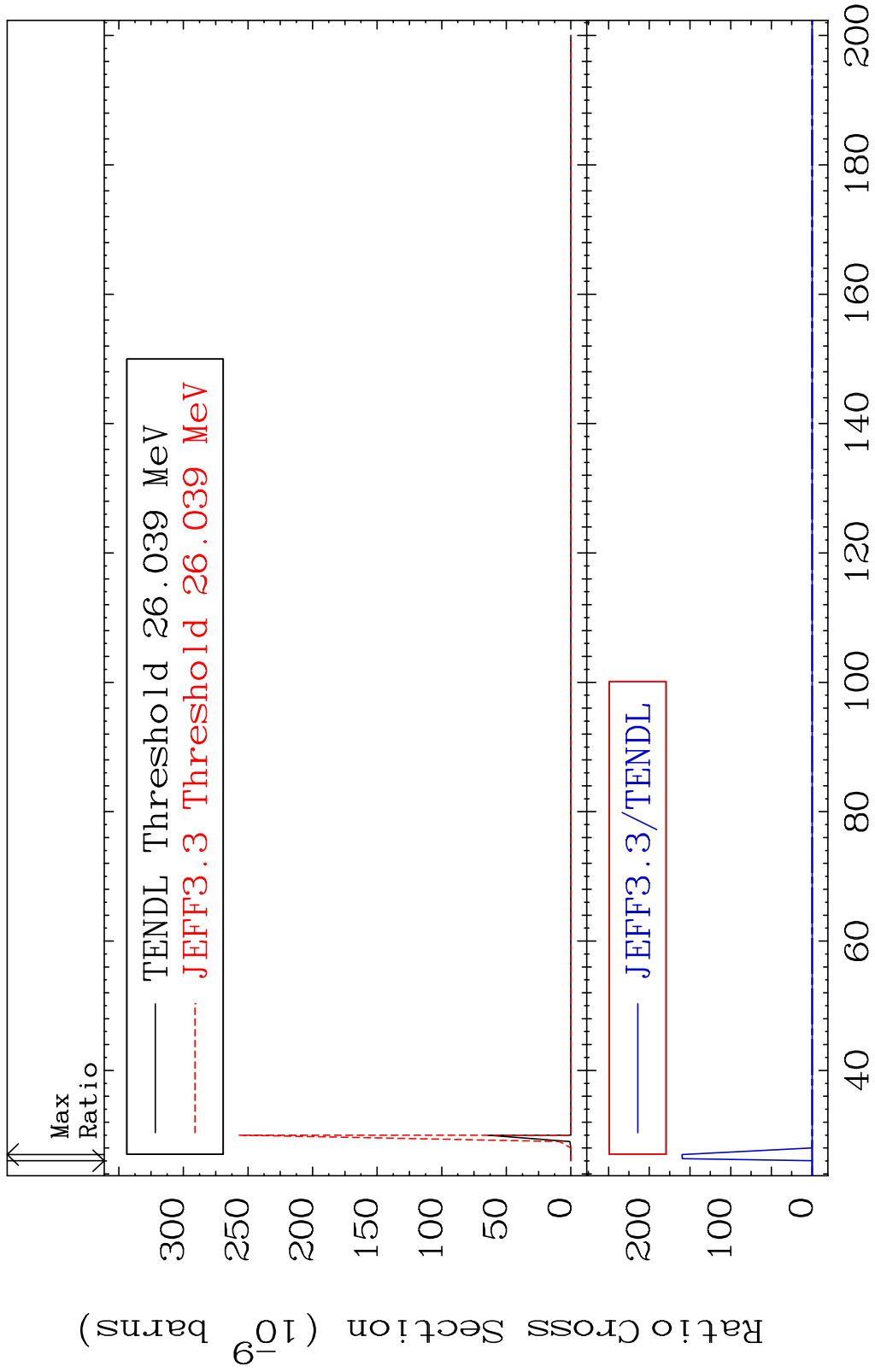
85 Incident Energy (MeV) 50-Sn-124



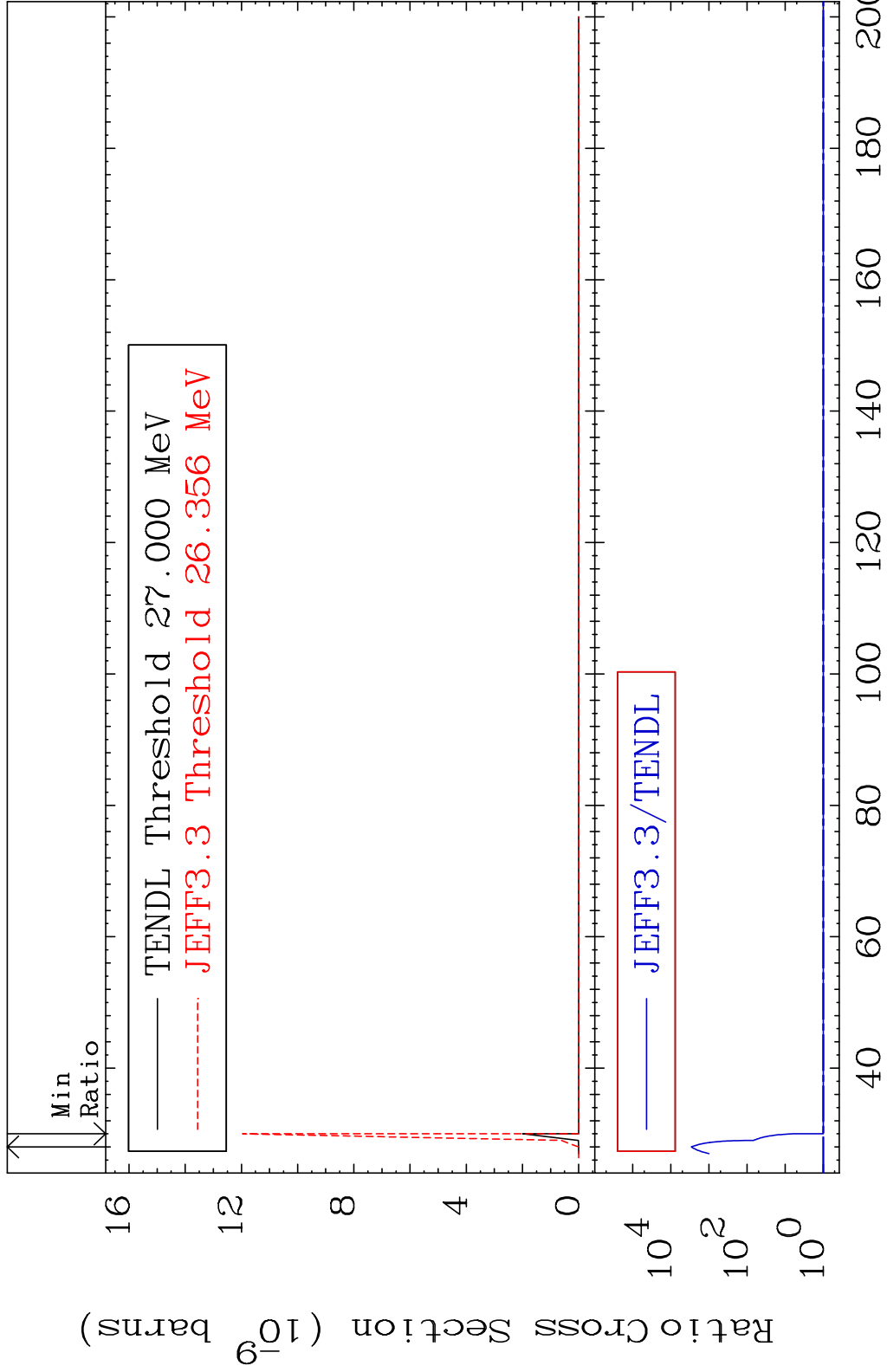




MAT 5061 (n,3n) p:49-In-121g 50-Sn-124
 Radionuclide Production Cross Section Ratio 9999. %

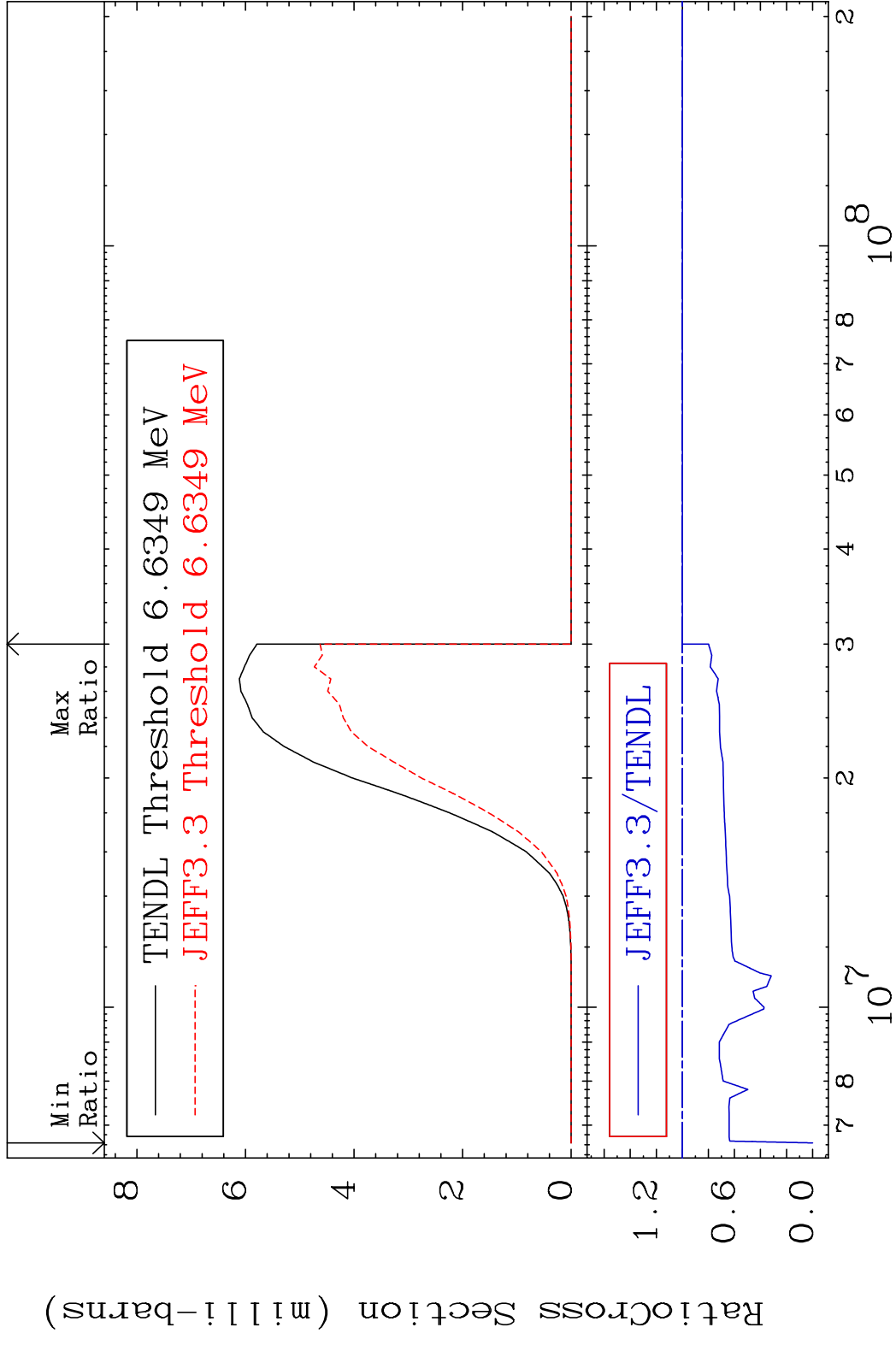


MAT 5061 (n,3n) p:49-In-121m1 50-Sn-124
 Radionuclide Production Cross Section, %

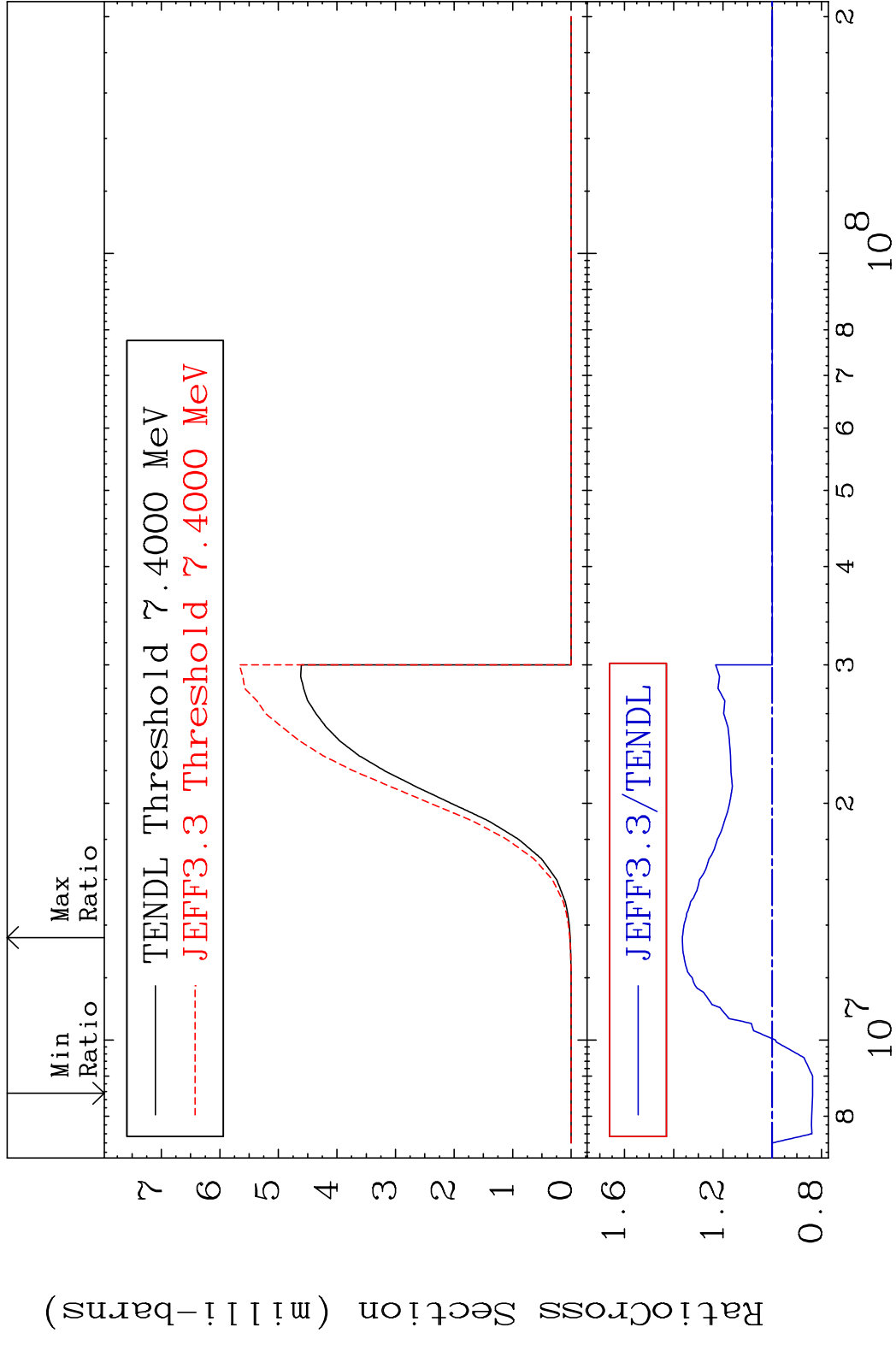


90 Incident Energy (MeV) 50-Sn-124

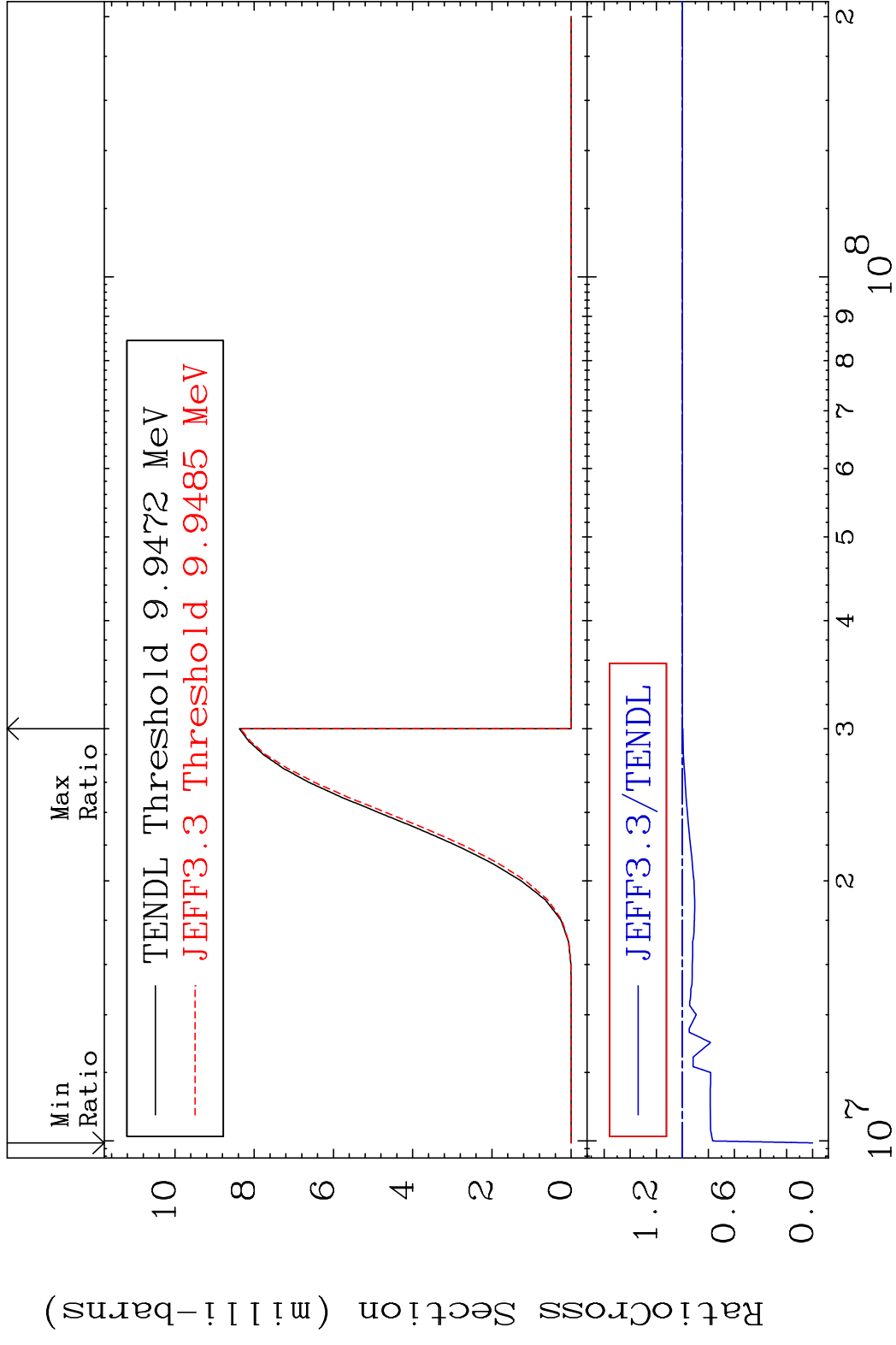
MAT 5061 (n,p):49-In-124g 50-Sn-124
 Radionuclide Production Cross Section 100.000 %



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

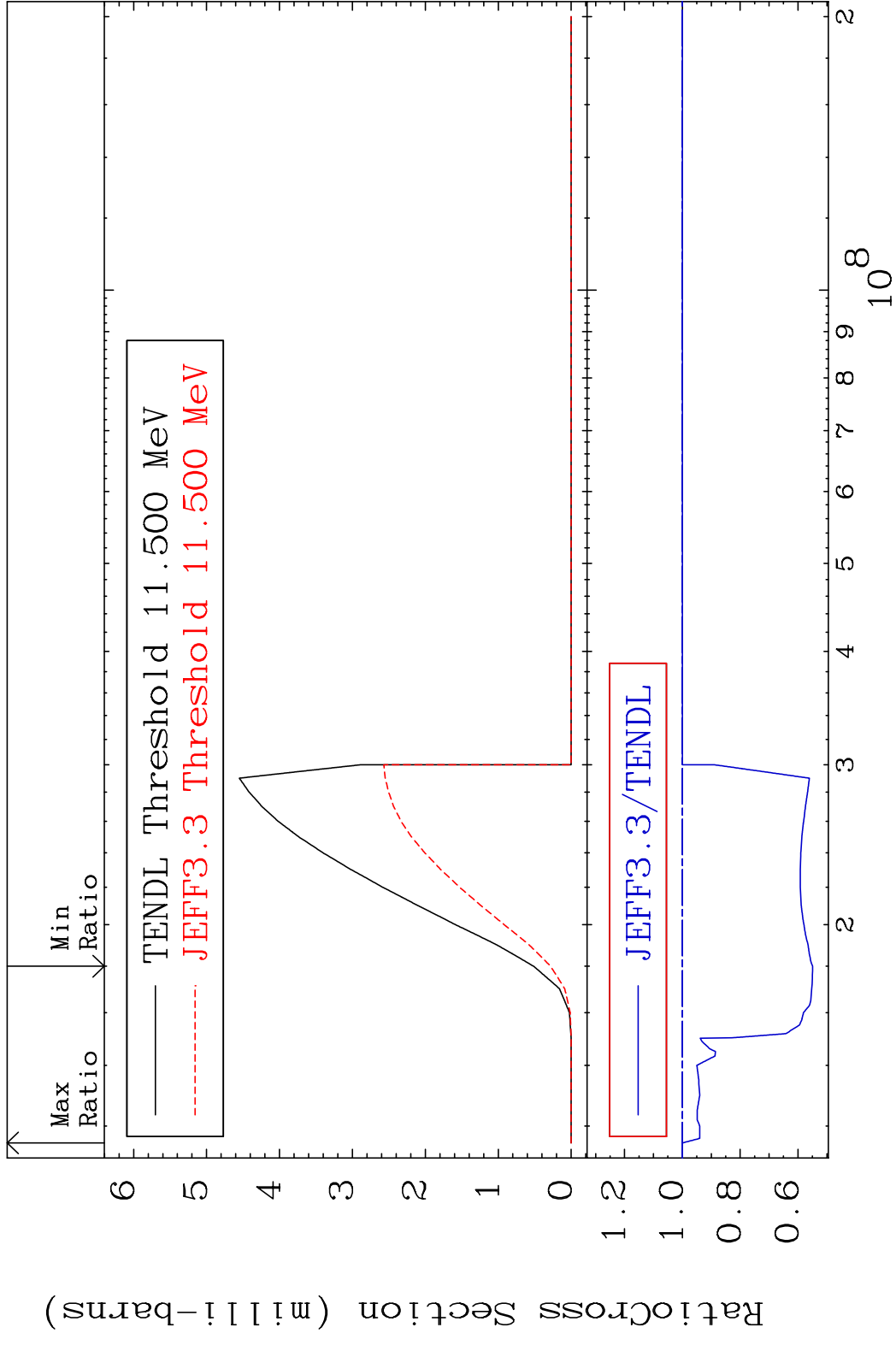


MAT 5061 (n, d): 49-In-123g 50-Sn-124
 Radionuclide Production Cross Section 100.000 %

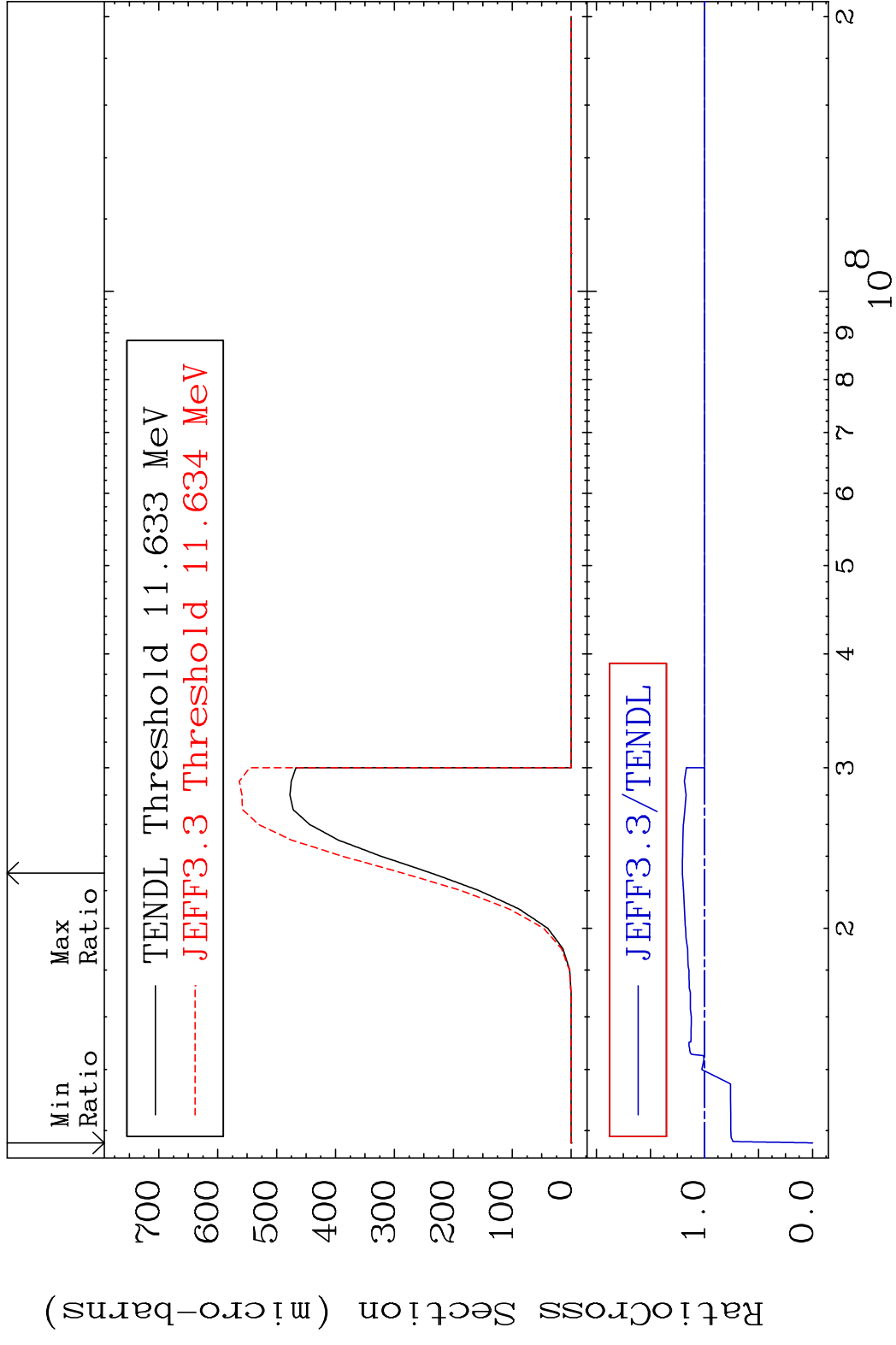


93 50-Sn-124

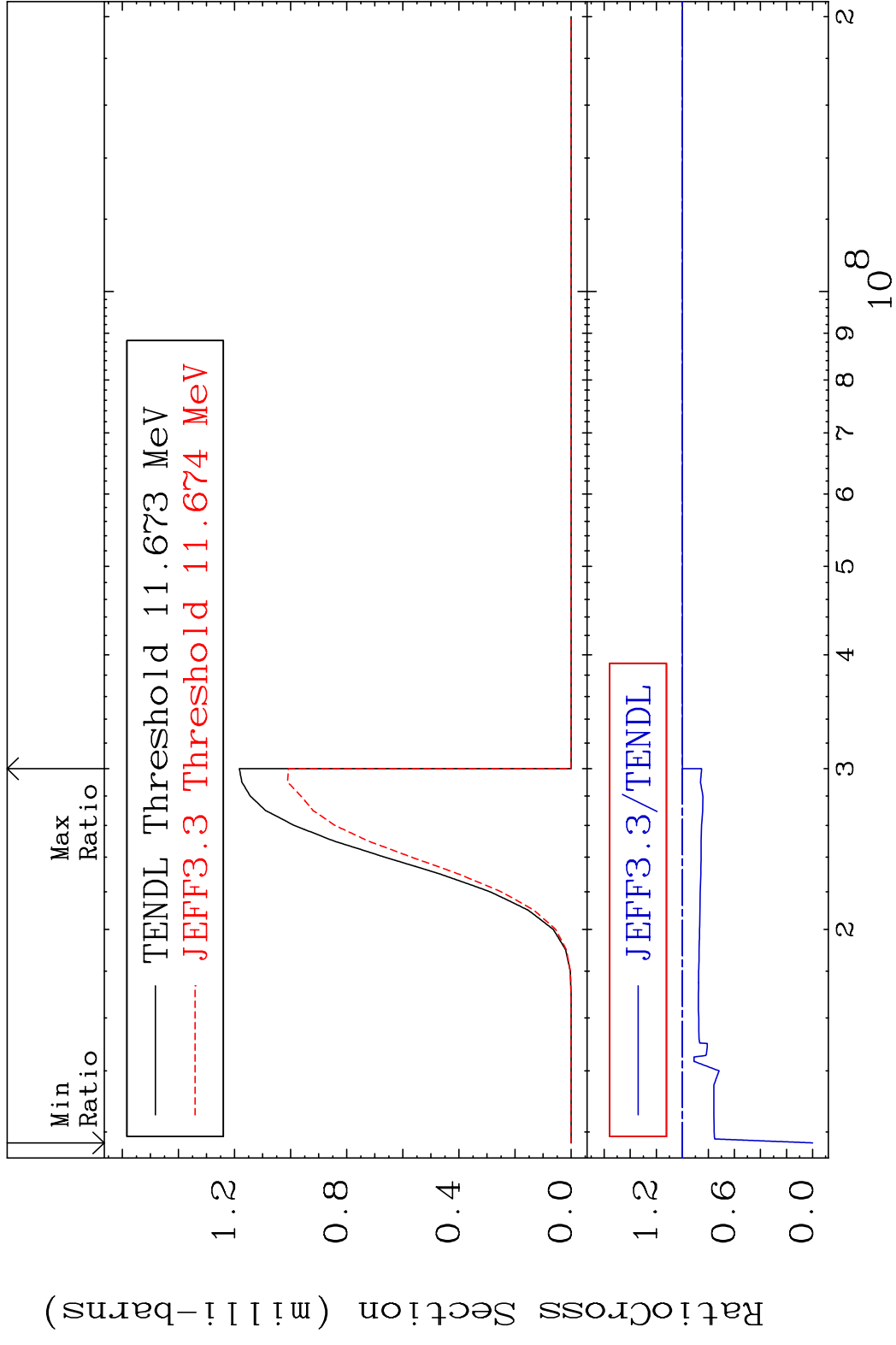
MAT 5061 (n, d): 49-In-123m1 50-Sn-124
 Radionuclide Production Cross Section 0.000 %



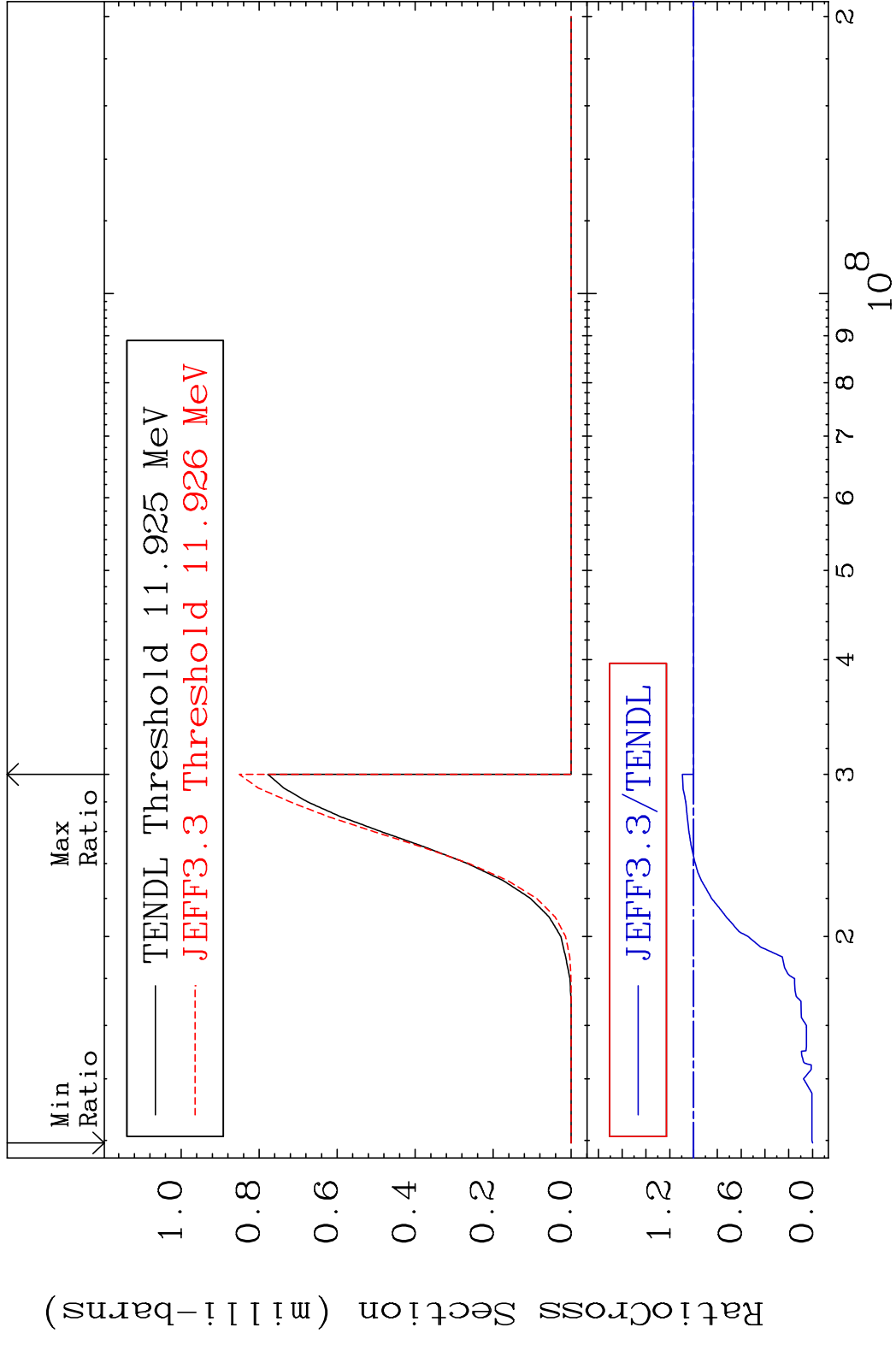
MAT 5061 (n, t): 49-In-122g 50-Sn-124
 Radionuclide Production Cross Section 180.01 dth 20.47 %



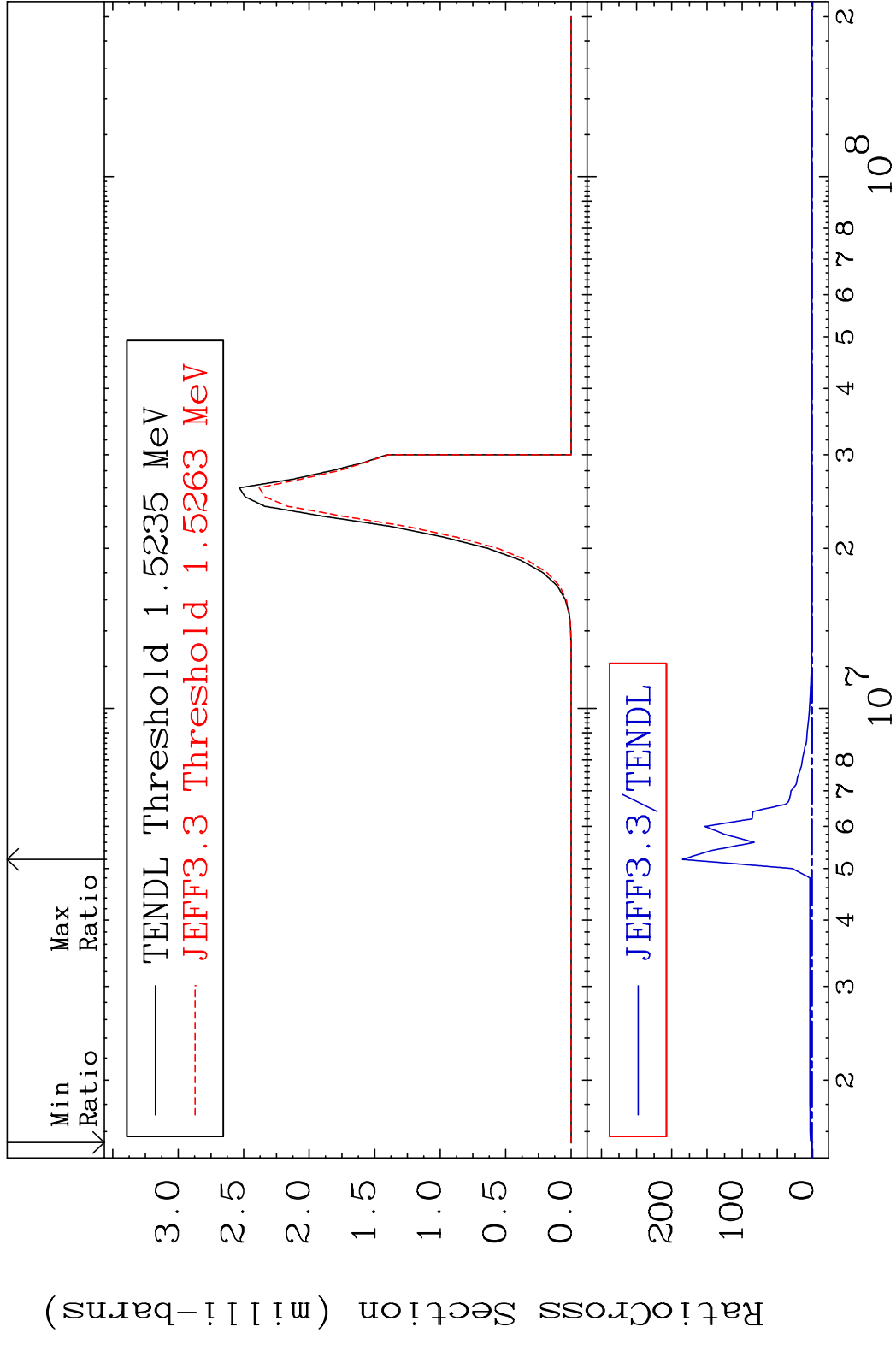
MAT 5061 (n, t): 49-In-122m1 50-Sn-124
 Radionuclide Production Cross Section 100.0 mb 0.000 %

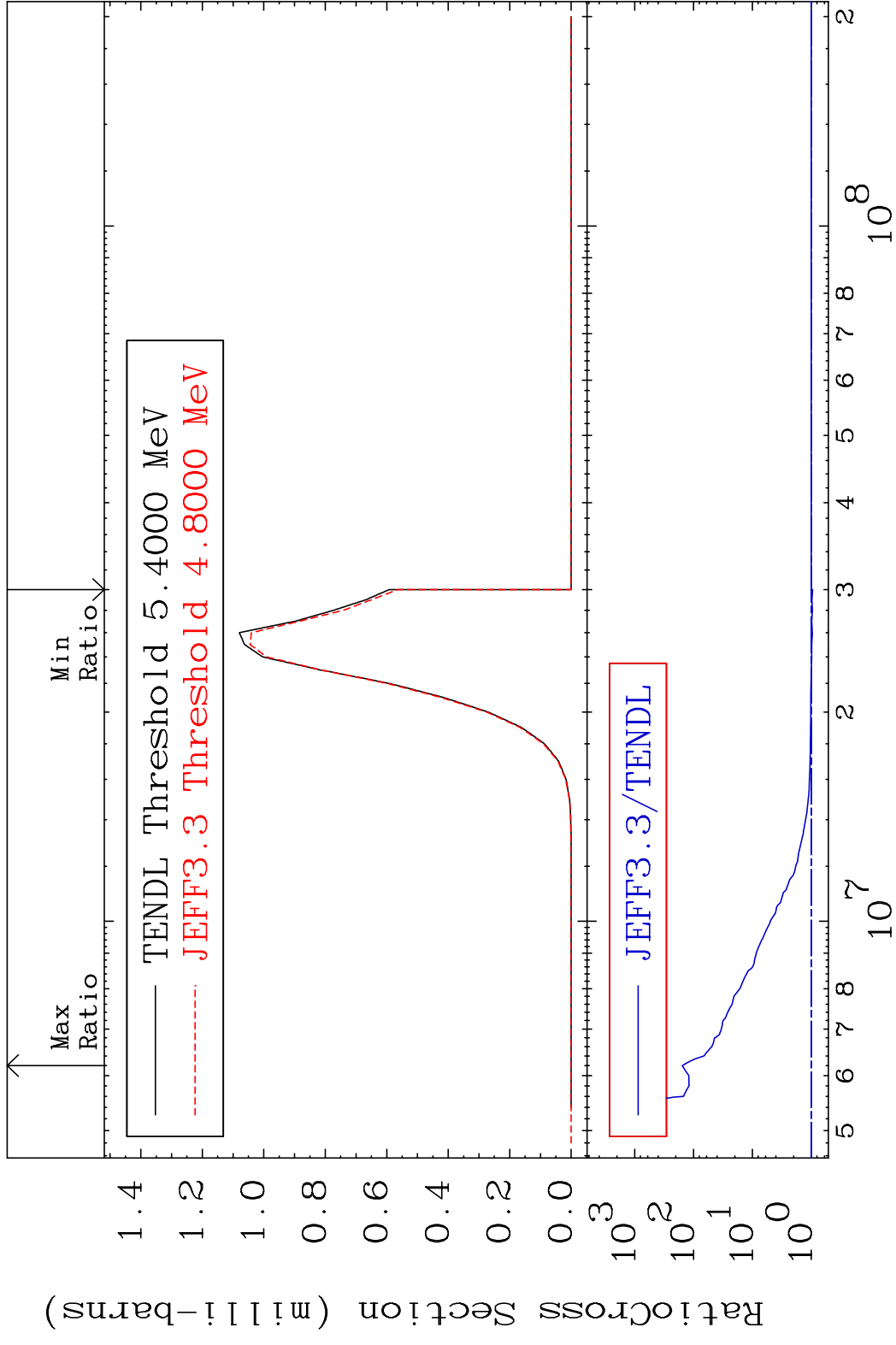


MAT 5061 (n, t): 49-In-122m5 50-Sn-124
 Radionuclide Production Cross Section Ratio 9.419 %

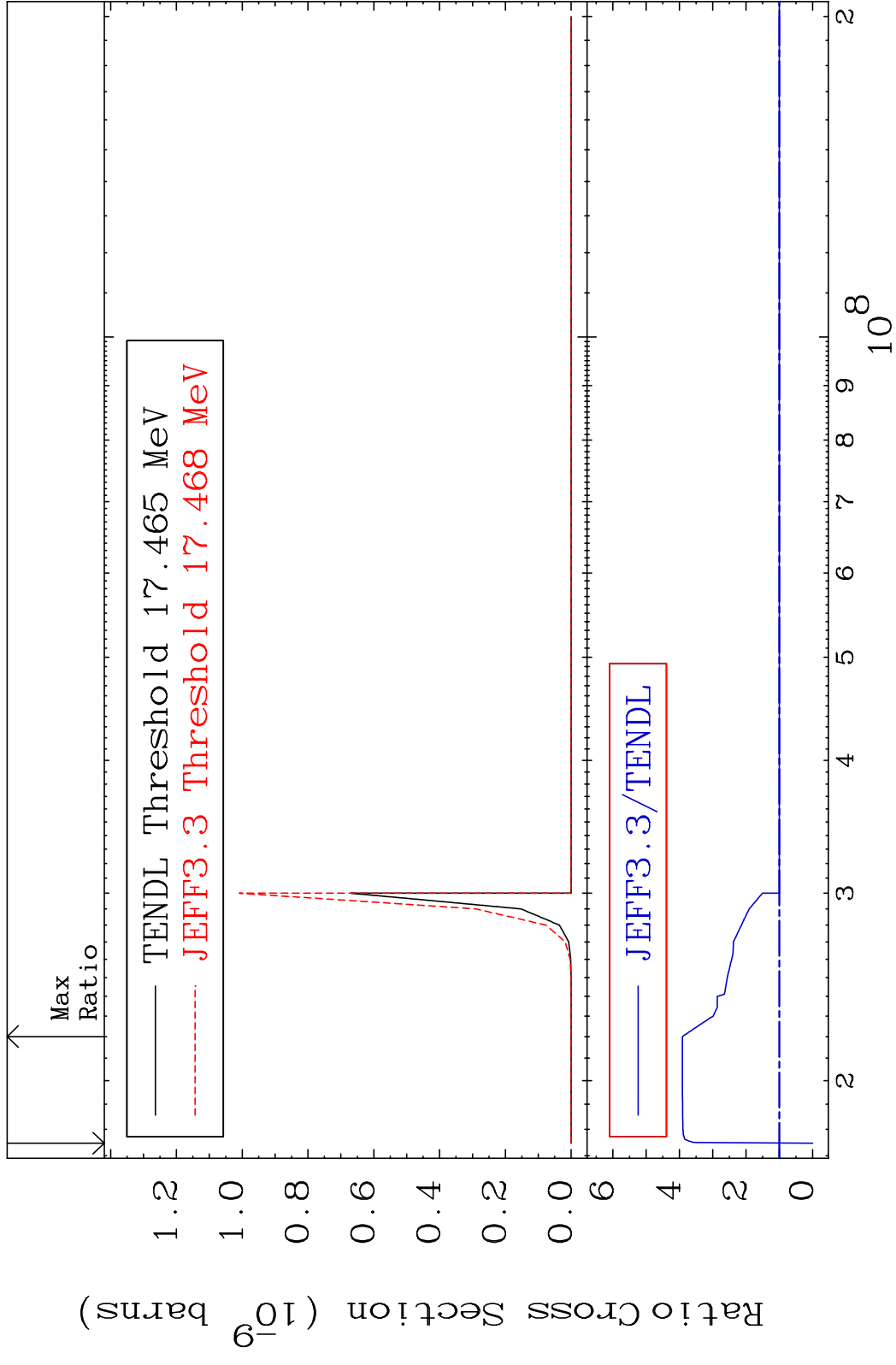


MAT 5061 (n,α):48-Cd-121g 50-Sn-124
 Radionuclide Production Cross Section 100% 9999. %





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