

Program Complot
(Version 2018-1)

by

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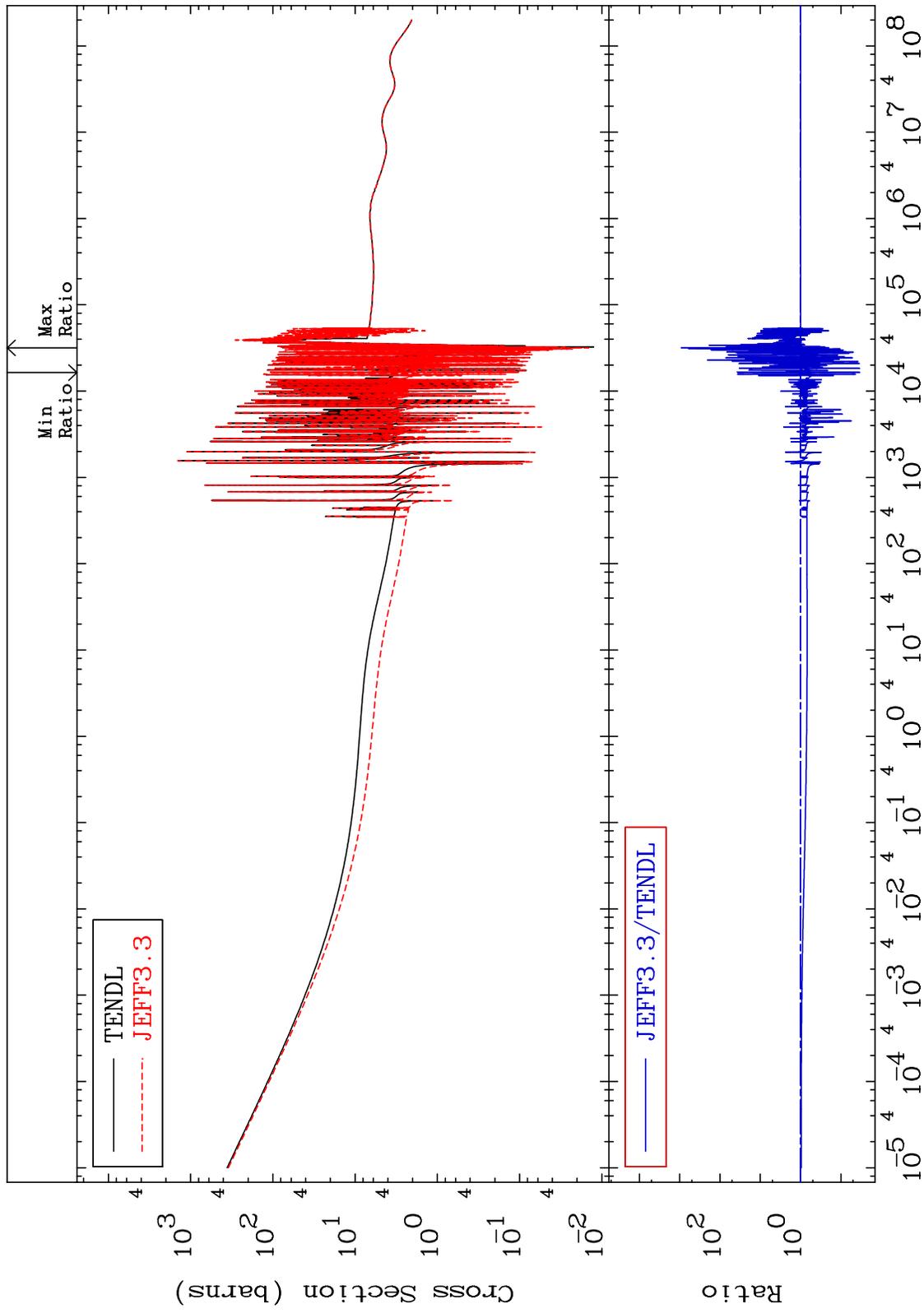
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5237

Total
Cross Section

52-Te-124
-96.60 To 9999. %



1

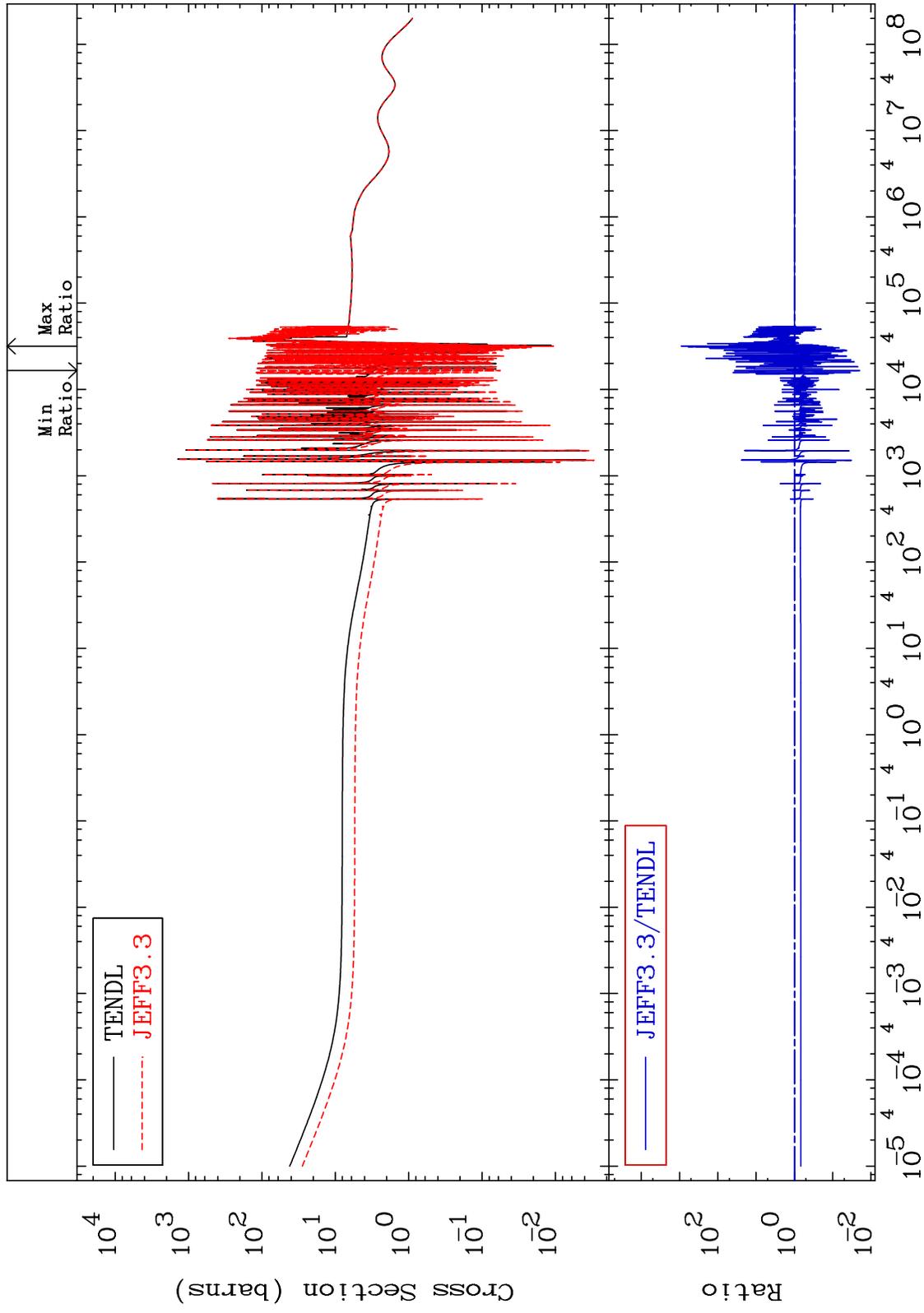
Incident Energy (eV)

52-Te-124

MAT 5237

Elastic
Cross Section

52-Te-124
-98.04 To 9999. %

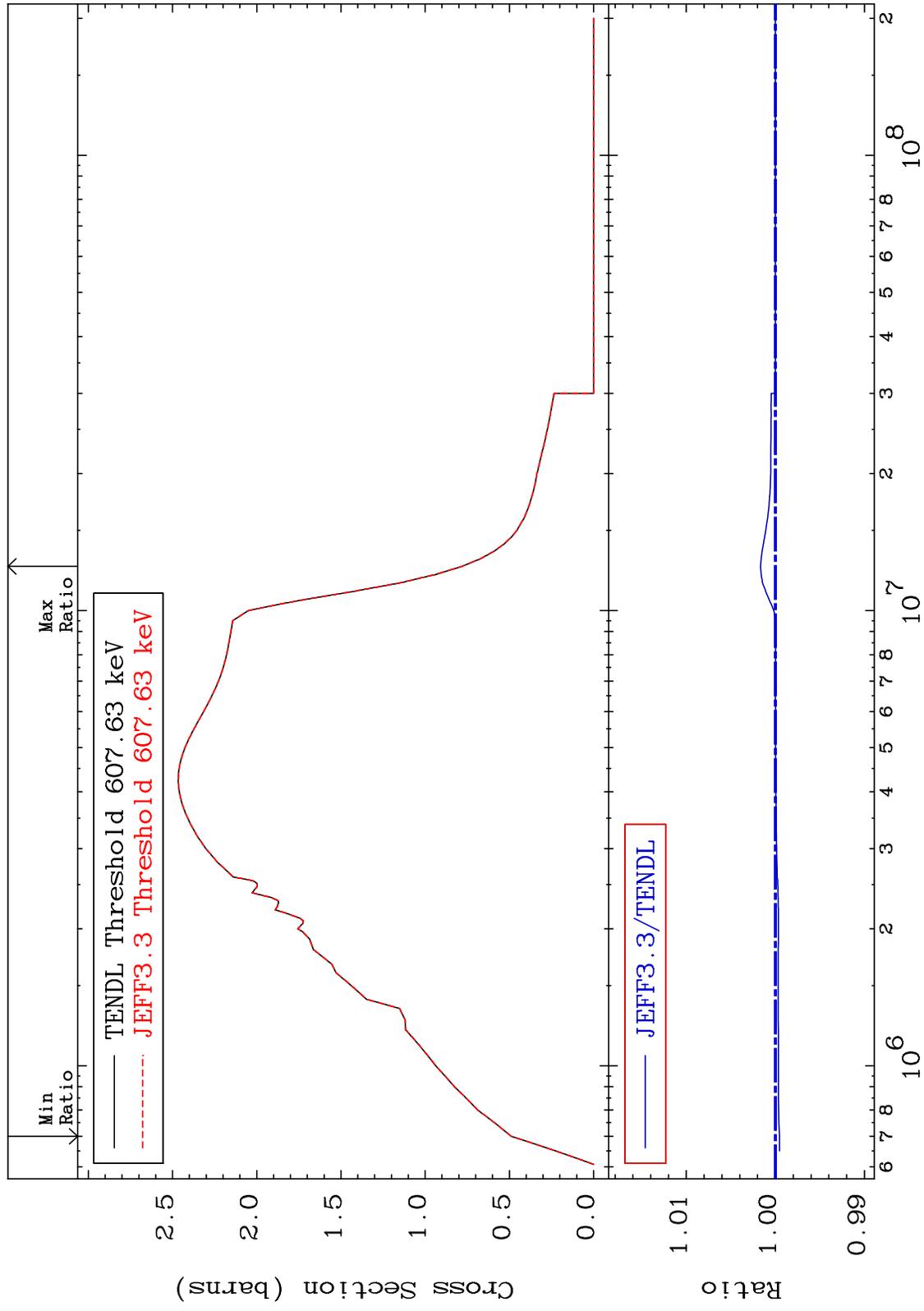


2

Incident Energy (eV)

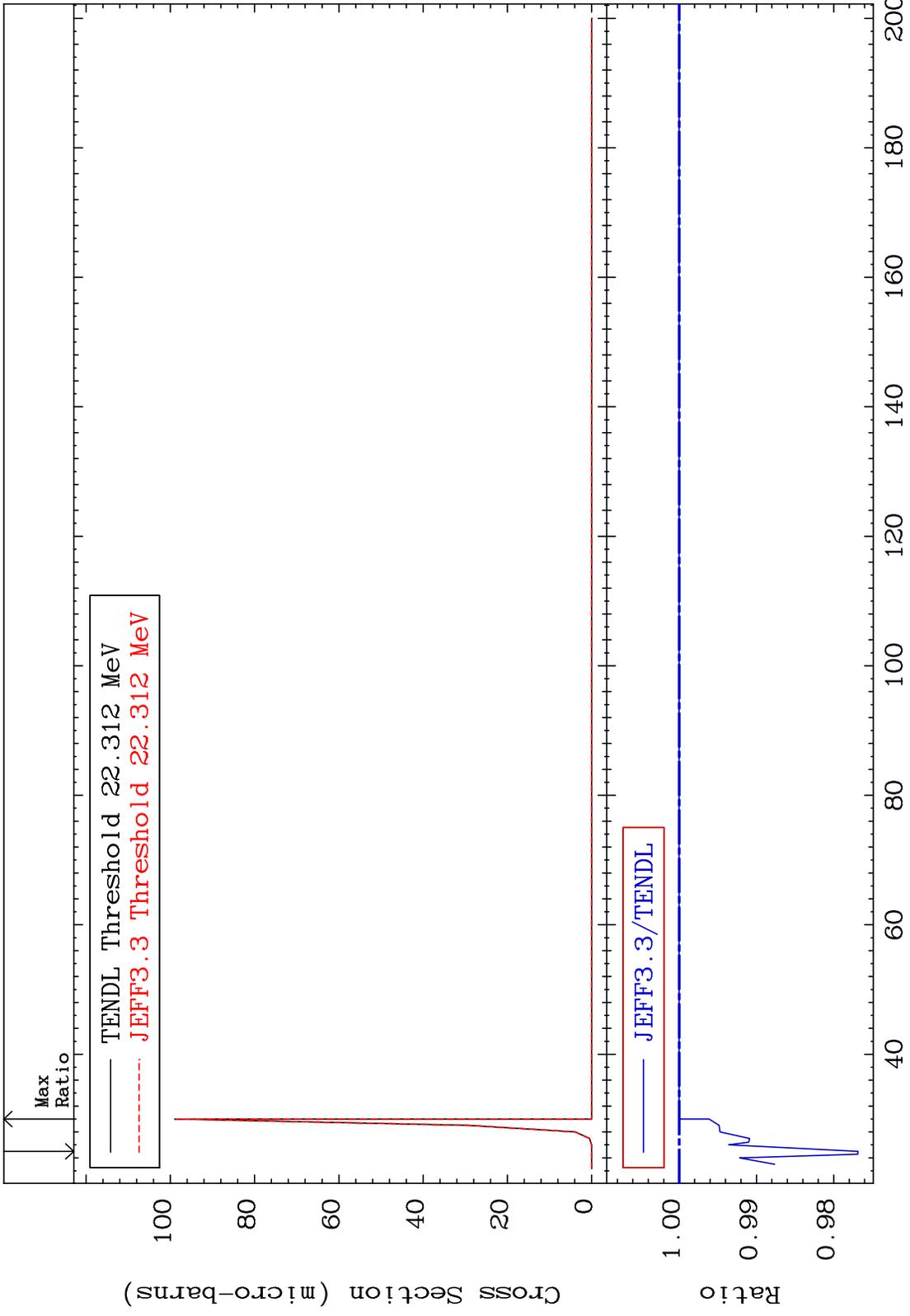
52-Te-124

MAT 5237 Inelastic Cross Section 52-Te-124 -0.045 To 0.167 %

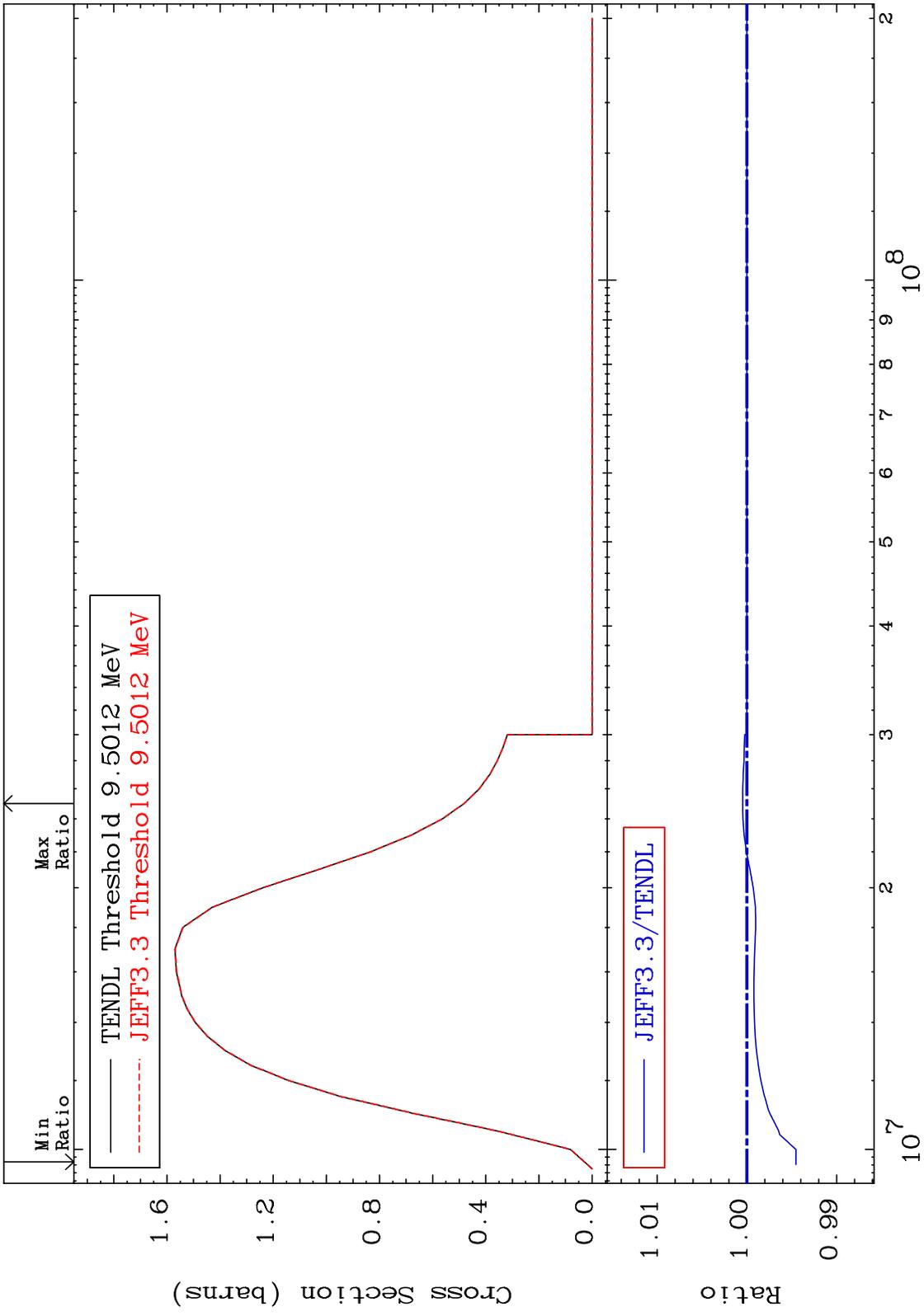


3 Incident Energy (eV) 52-Te-124

MAT 5237 (n,2n) d 52-Te-124
Cross Section -2.315 To 0.000 %

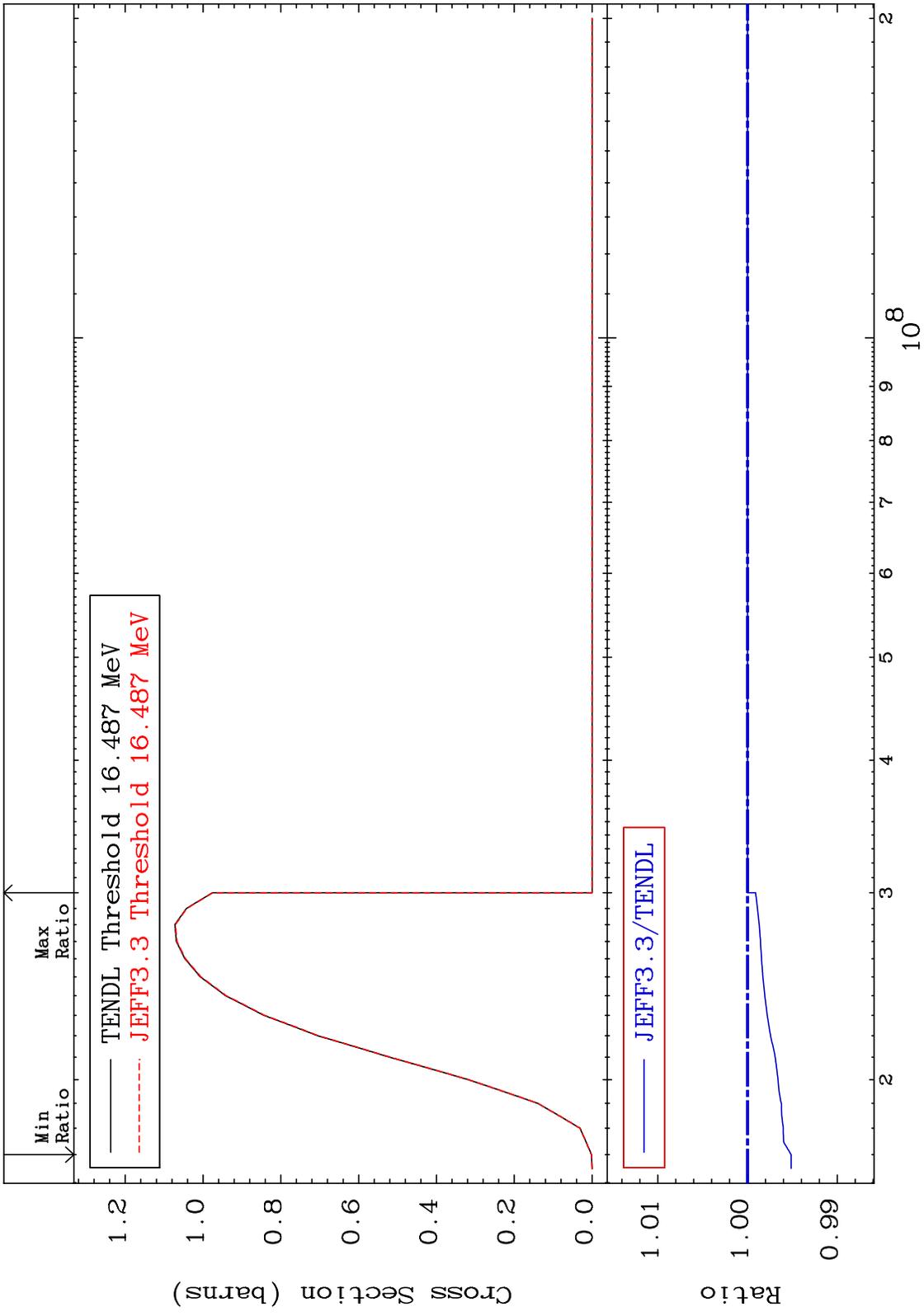


MAT 5237 (n,2n) Cross Section 52-Te-124 -0.546 To 0.047 %

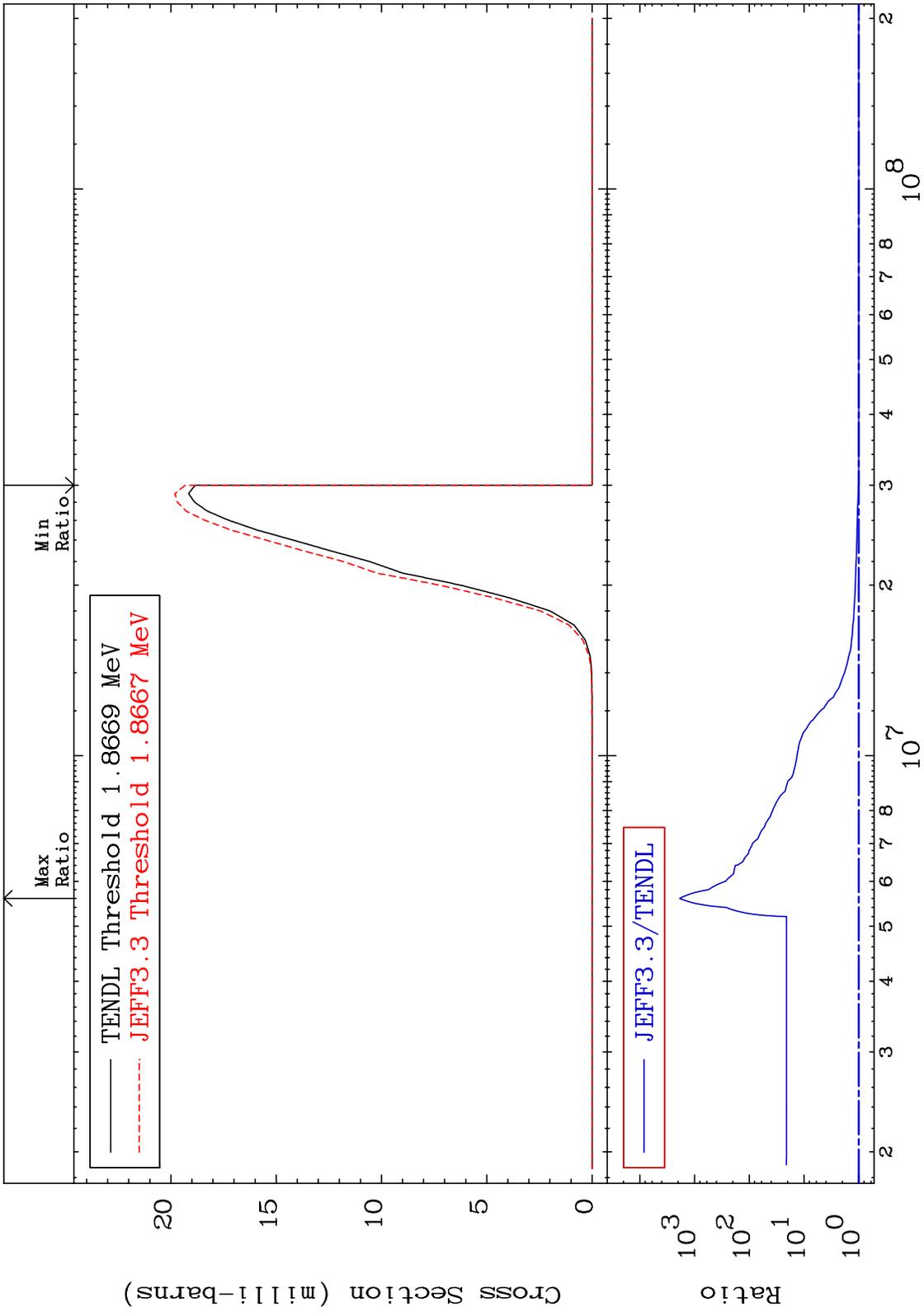


52-Te-124

MAT 5237 (n,3n) Cross Section 52-Te-124 -0.486 To 0.000 %

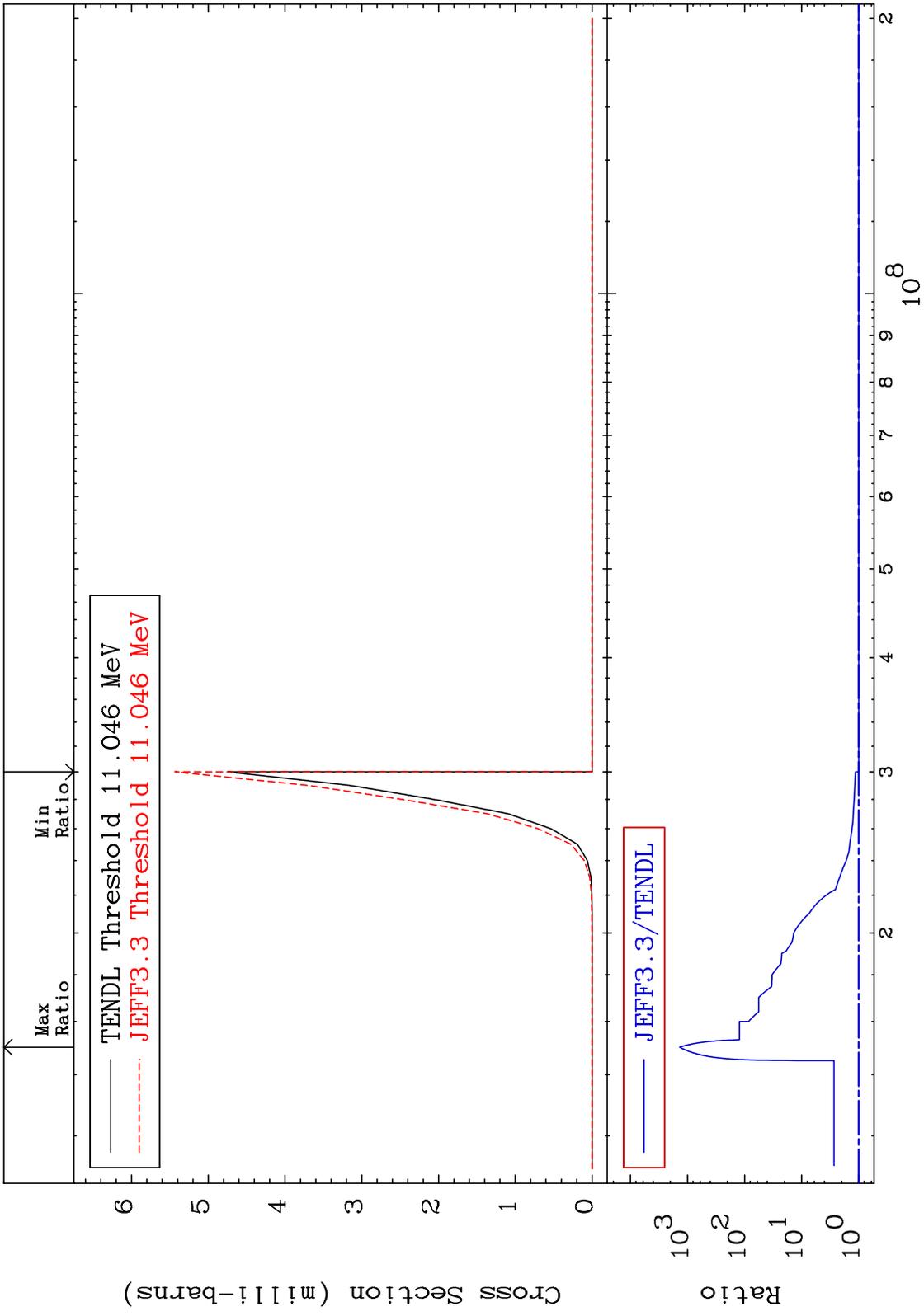


MAT 5237 $(n, n') \alpha$ 52-Te-124 To 9999. %

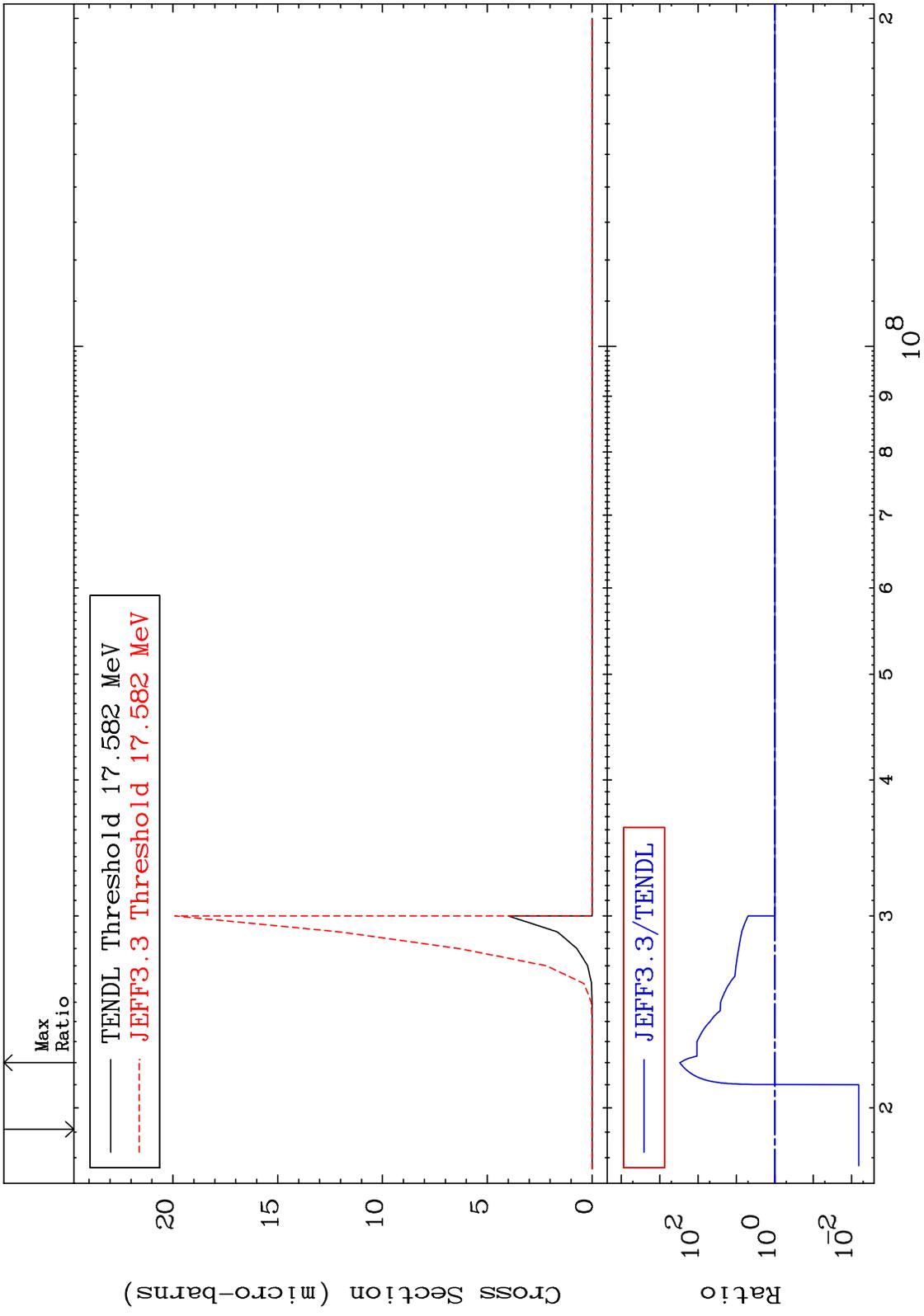


7 52-Te-124

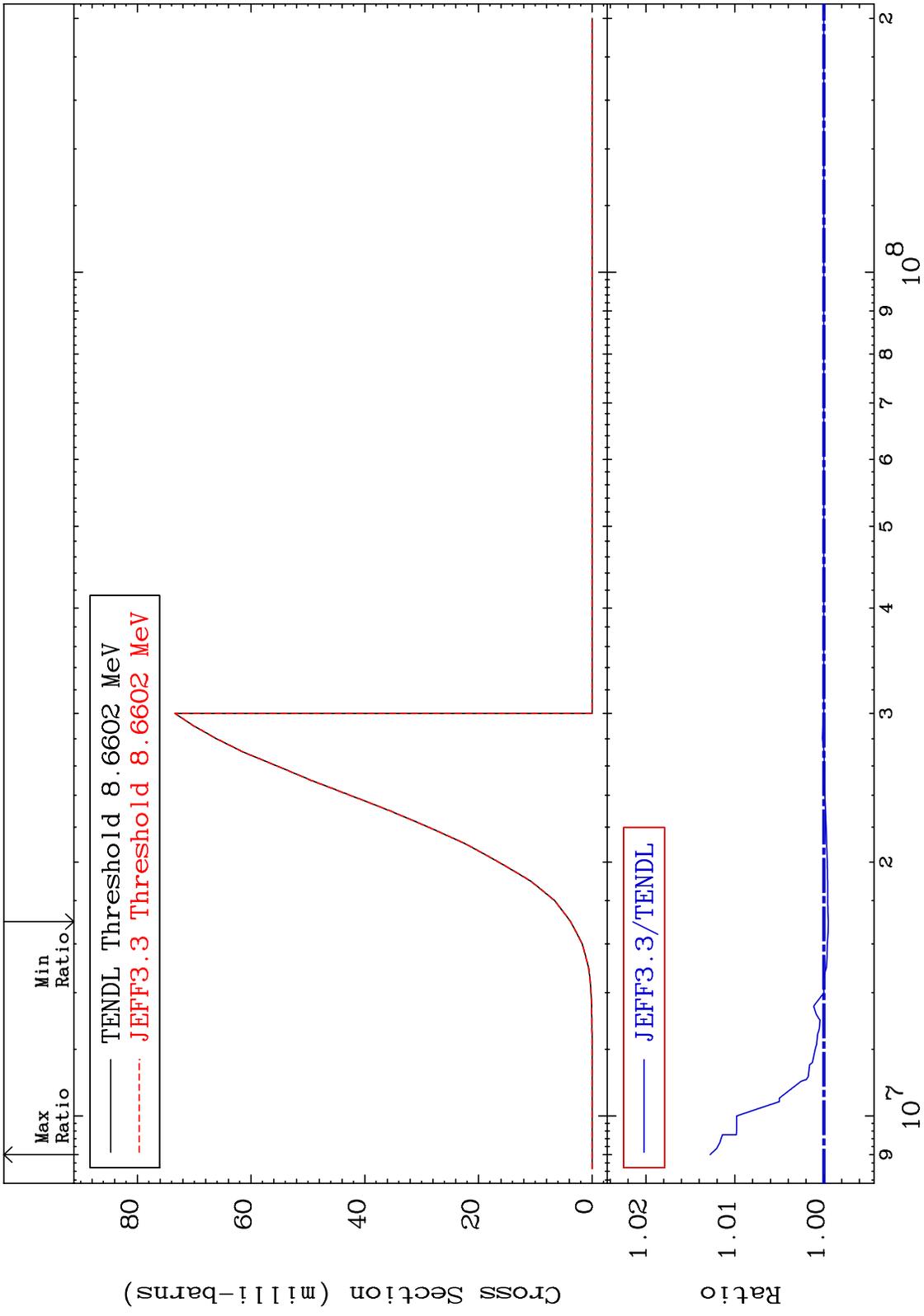
MAT 5237 $(n, 2n) \alpha$ 52-Te-124
 Cross Section 0.000 To 9999. %



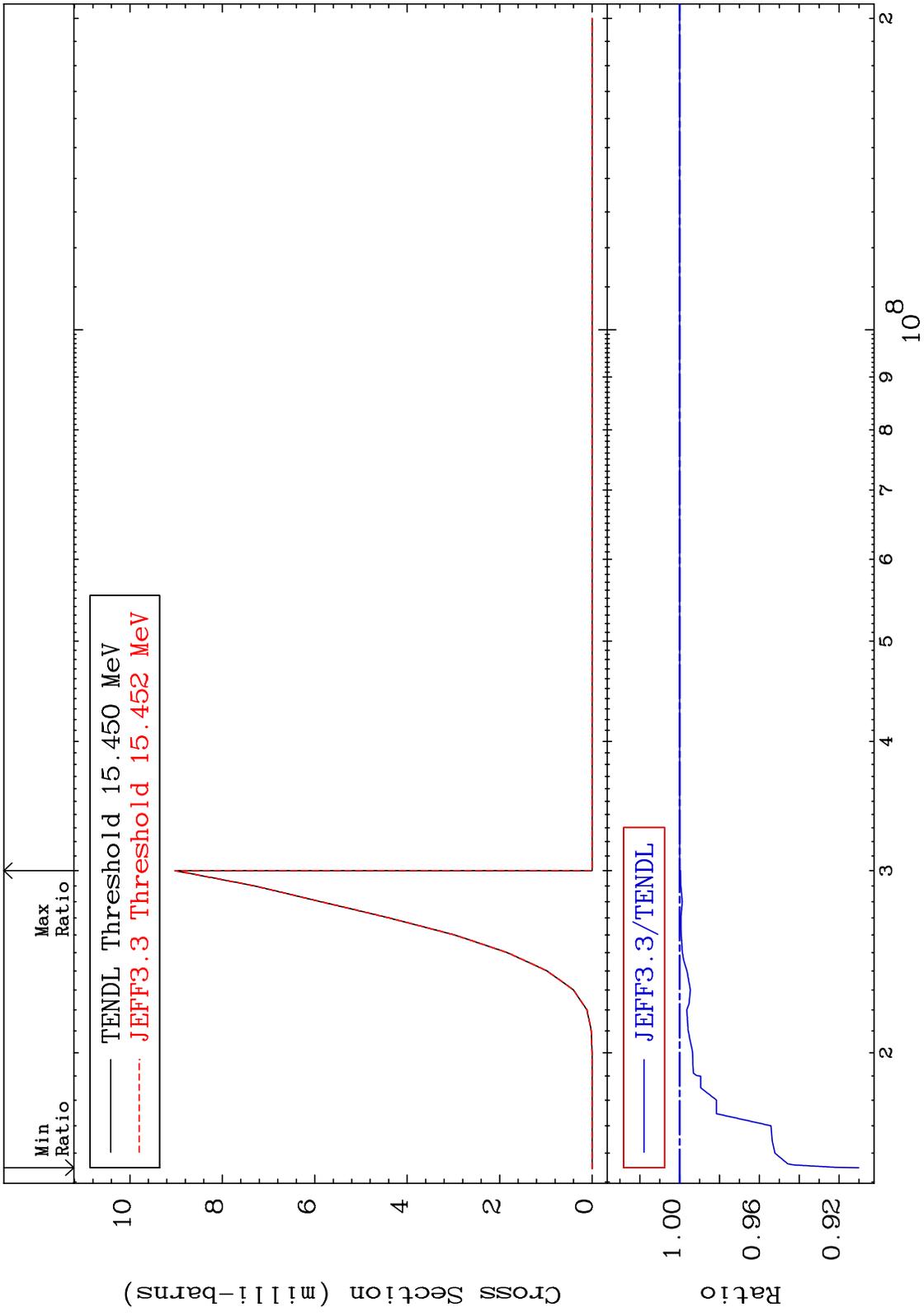
MAT 5237 (n,3n) α 52-Te-124
 Cross Section -99.35 To 9999. %



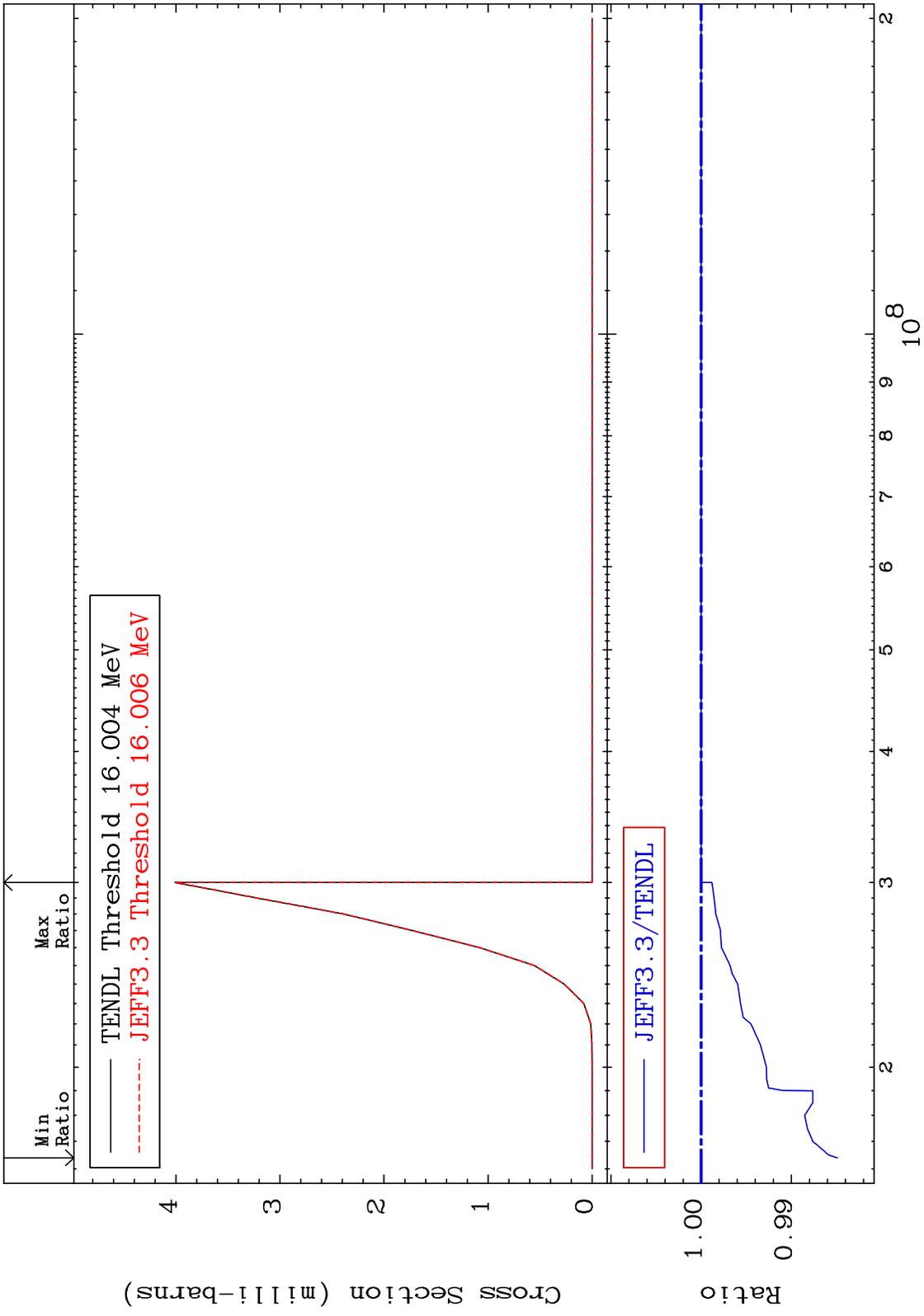
MAT 5237 (n,n') p 52-Te-124
Cross Section -0.051 To 1.278 %



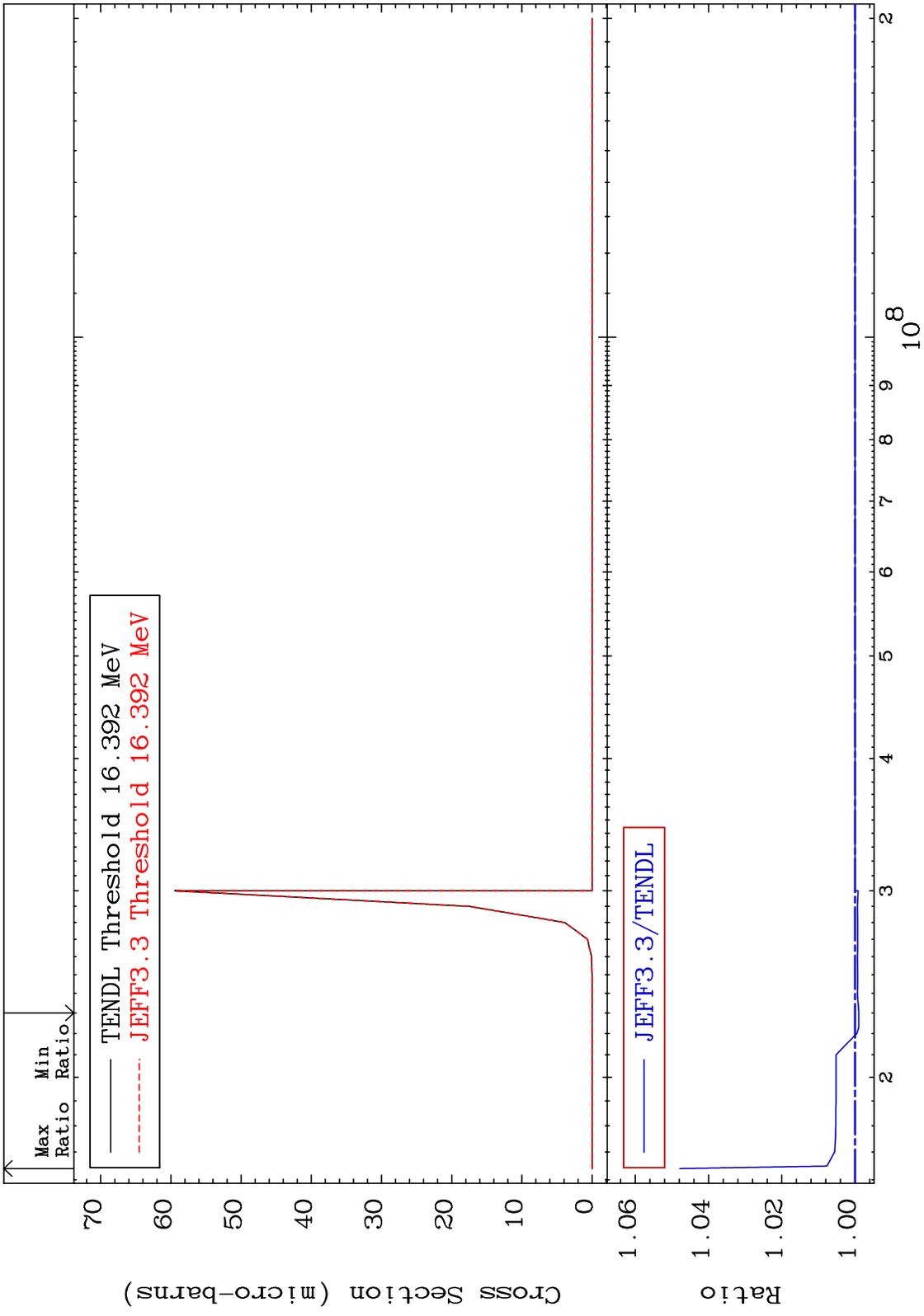
MAT 5237 (n,n') d 52-Te-124
 Cross Section -8.986 To 0.000 %



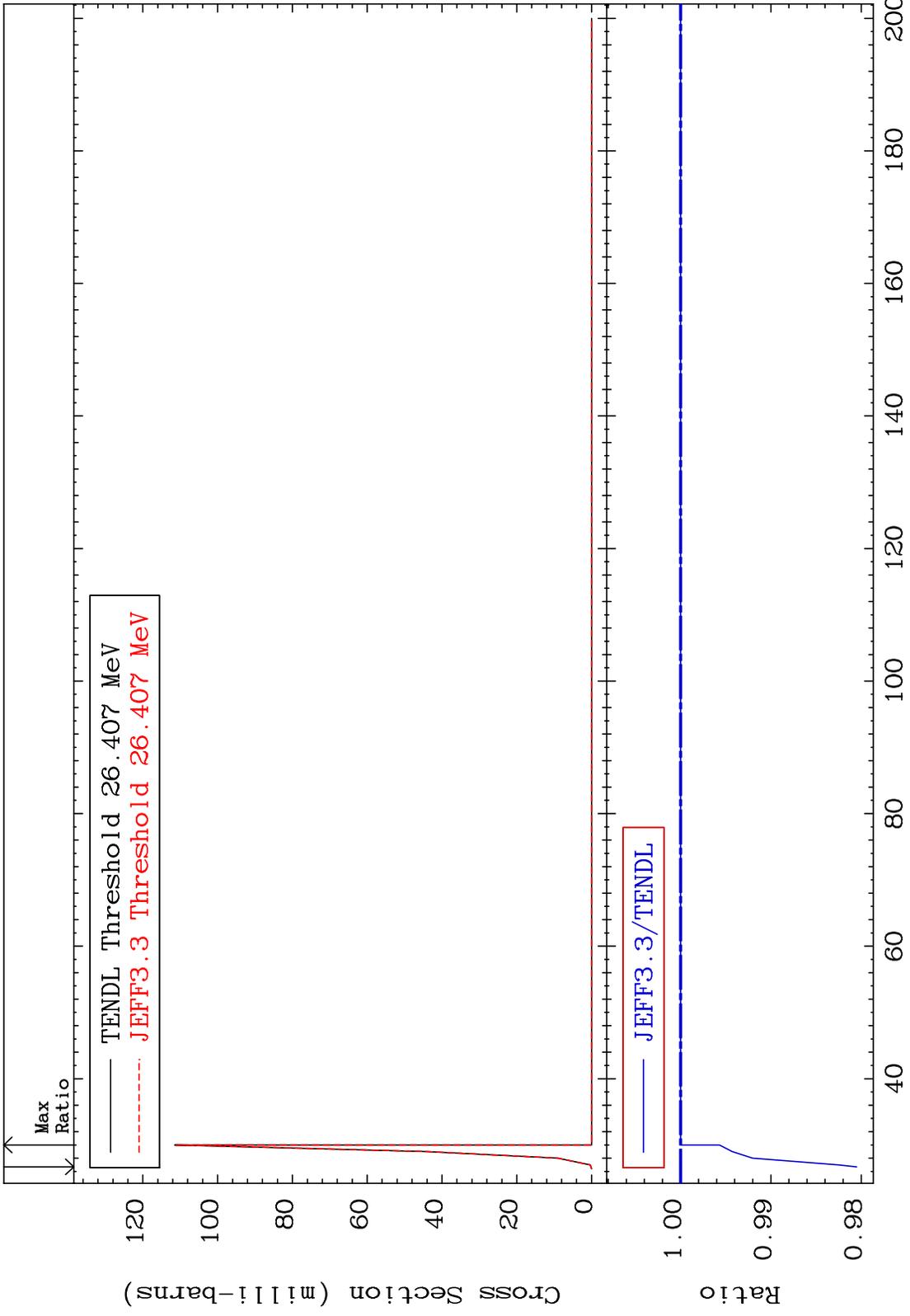
MAT 5237 (n,n') t 52-Te-124
 Cross Section -1.511 To 0.000 %



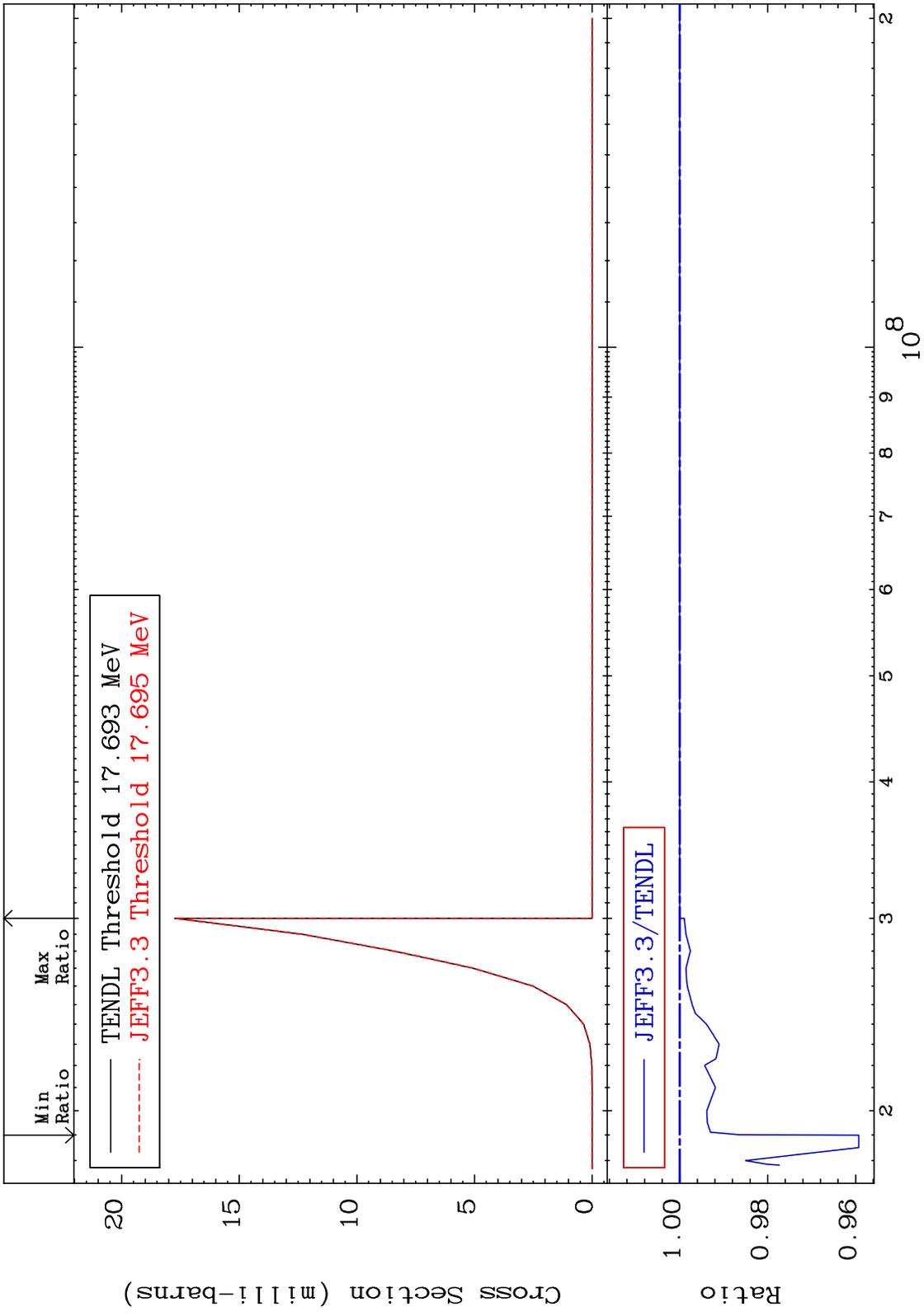
MAT 5237 (n, n') He-3 52-Te-124
 Cross Section -0.102 To 4.786 %



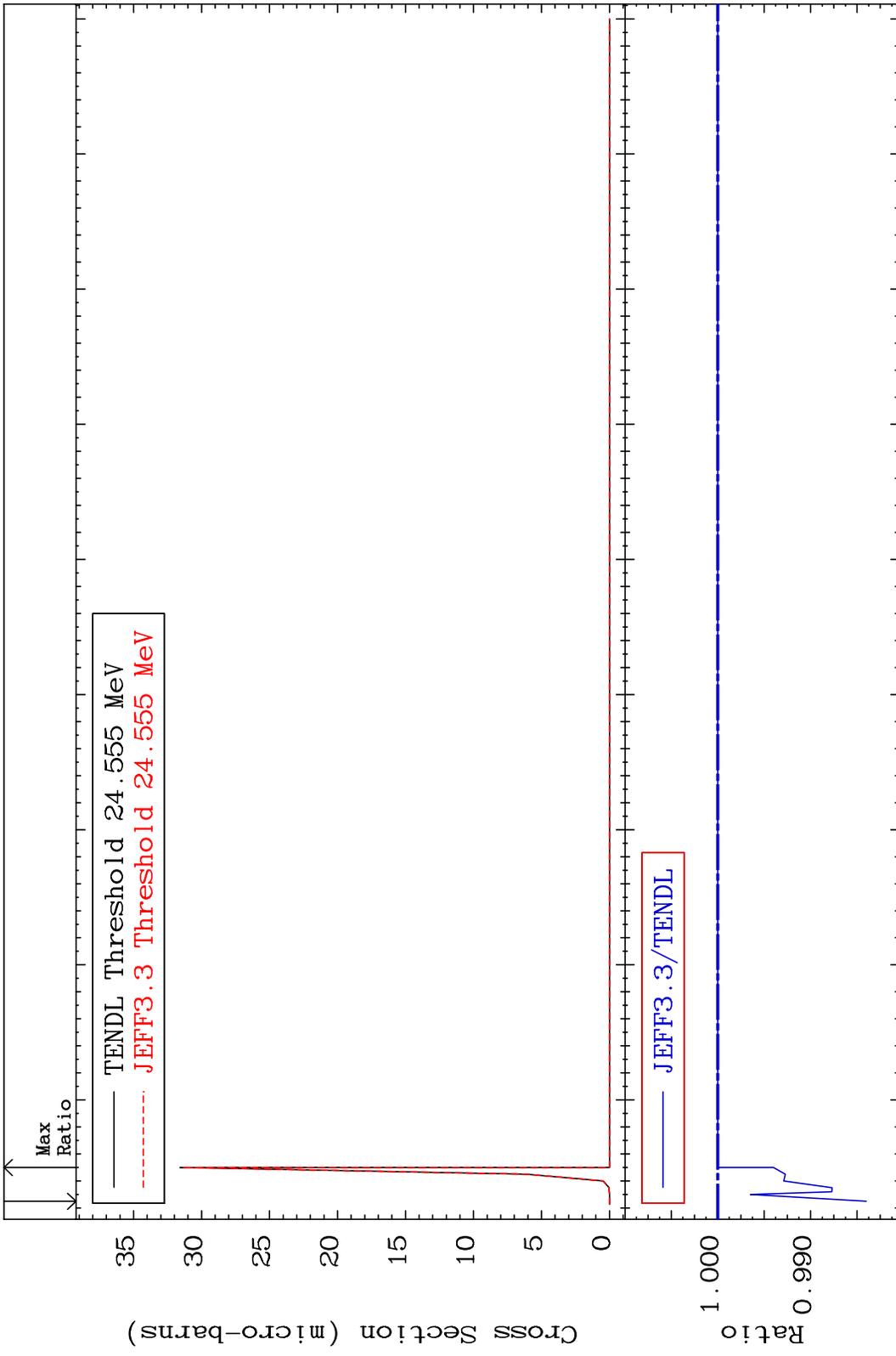
MAT 5237 (n,4n) Cross Section 52-Te-124 -1.950 To 0.000 %



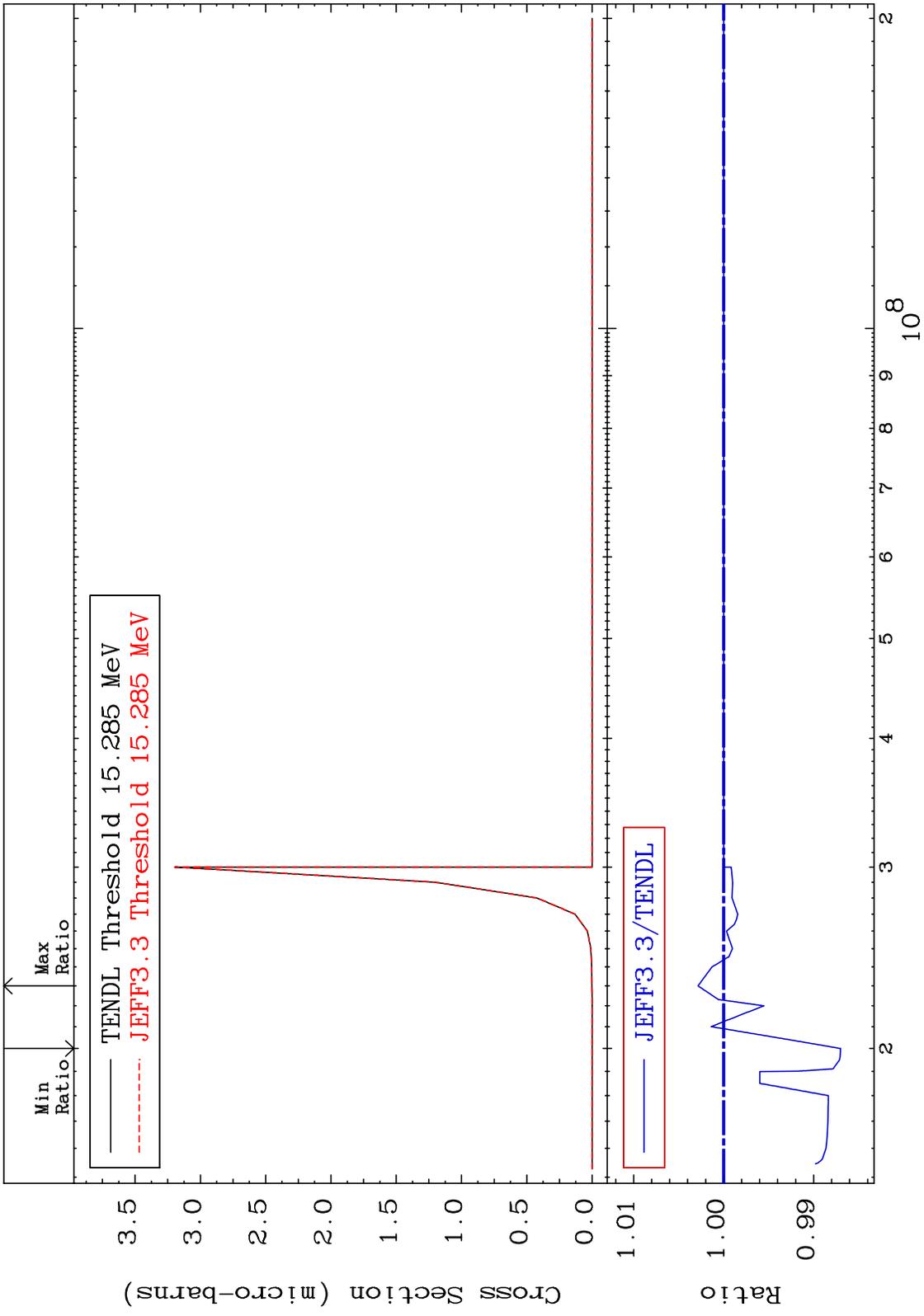
MAT 5237 (n,2n) p 52-Te-124
 Cross Section -4.073 To 0.000 %



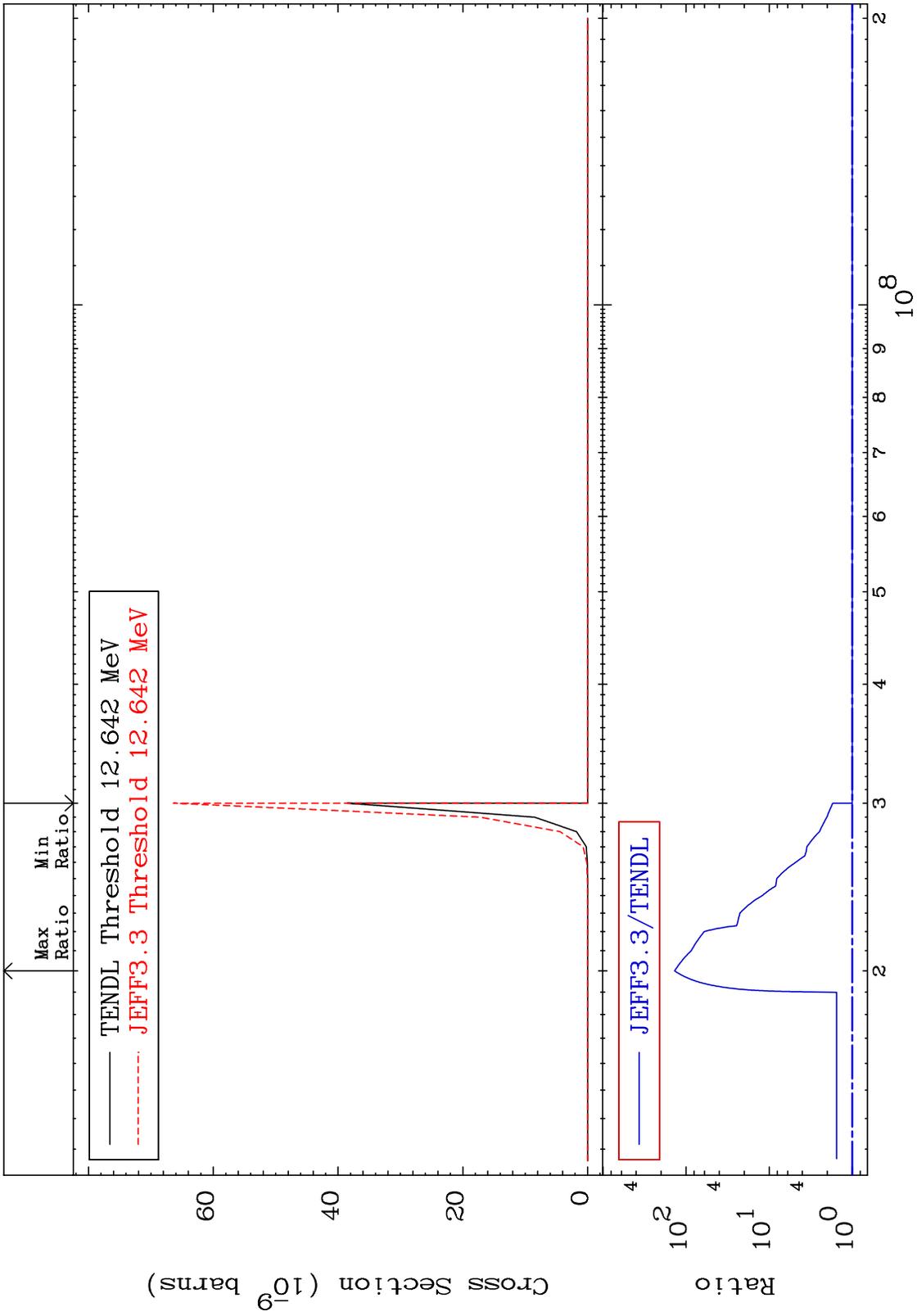
MAT 5237 (n,3n) p 52-Te-124
 Cross Section -1.599 To 0.000 %



MAT 5237 (n,2n) p 52-Te-124
 Cross Section -1.299 To 0.285 %



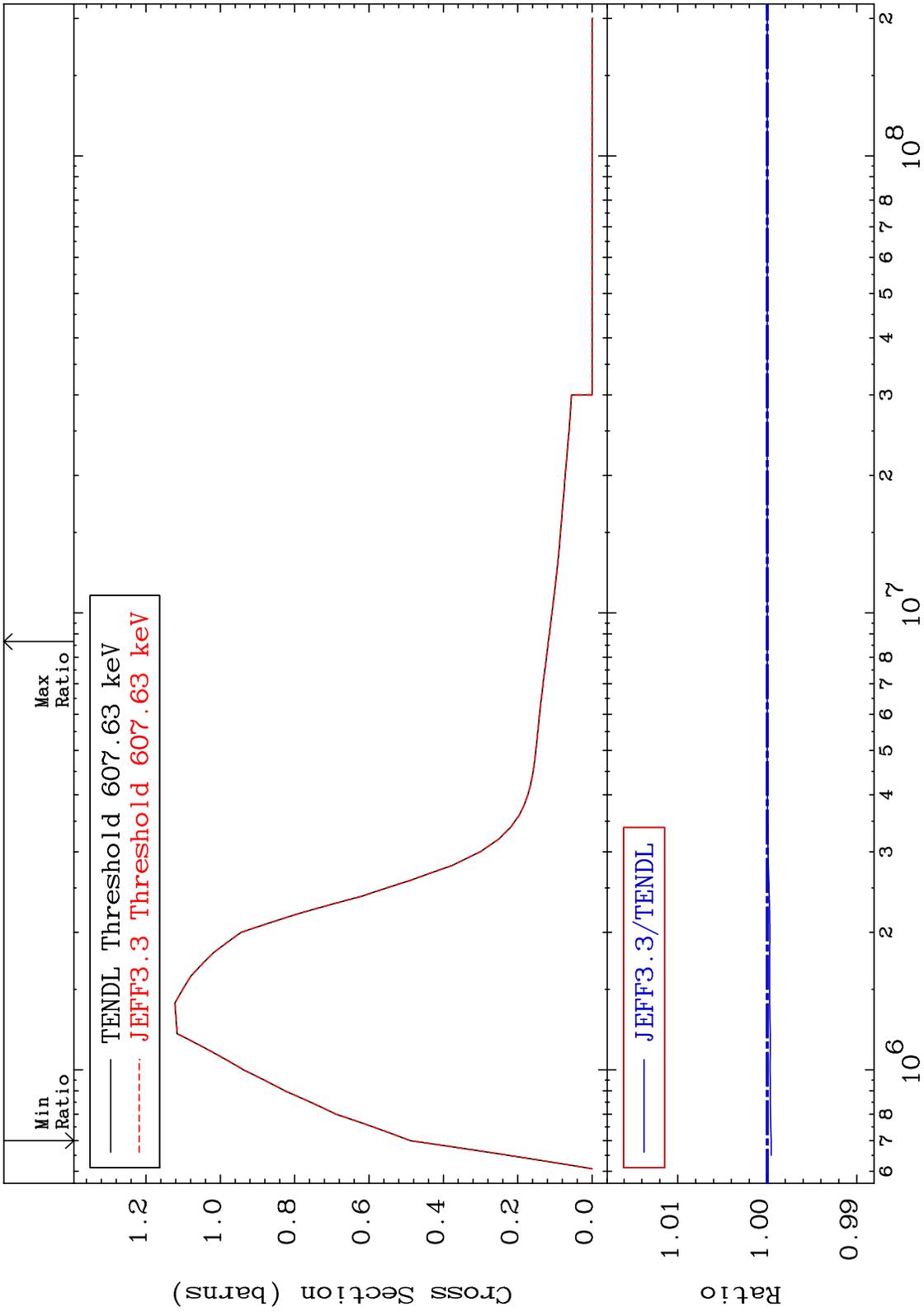
MAT 5237 (n,n') p α Cross Section 52-Te-124 To 9999. %



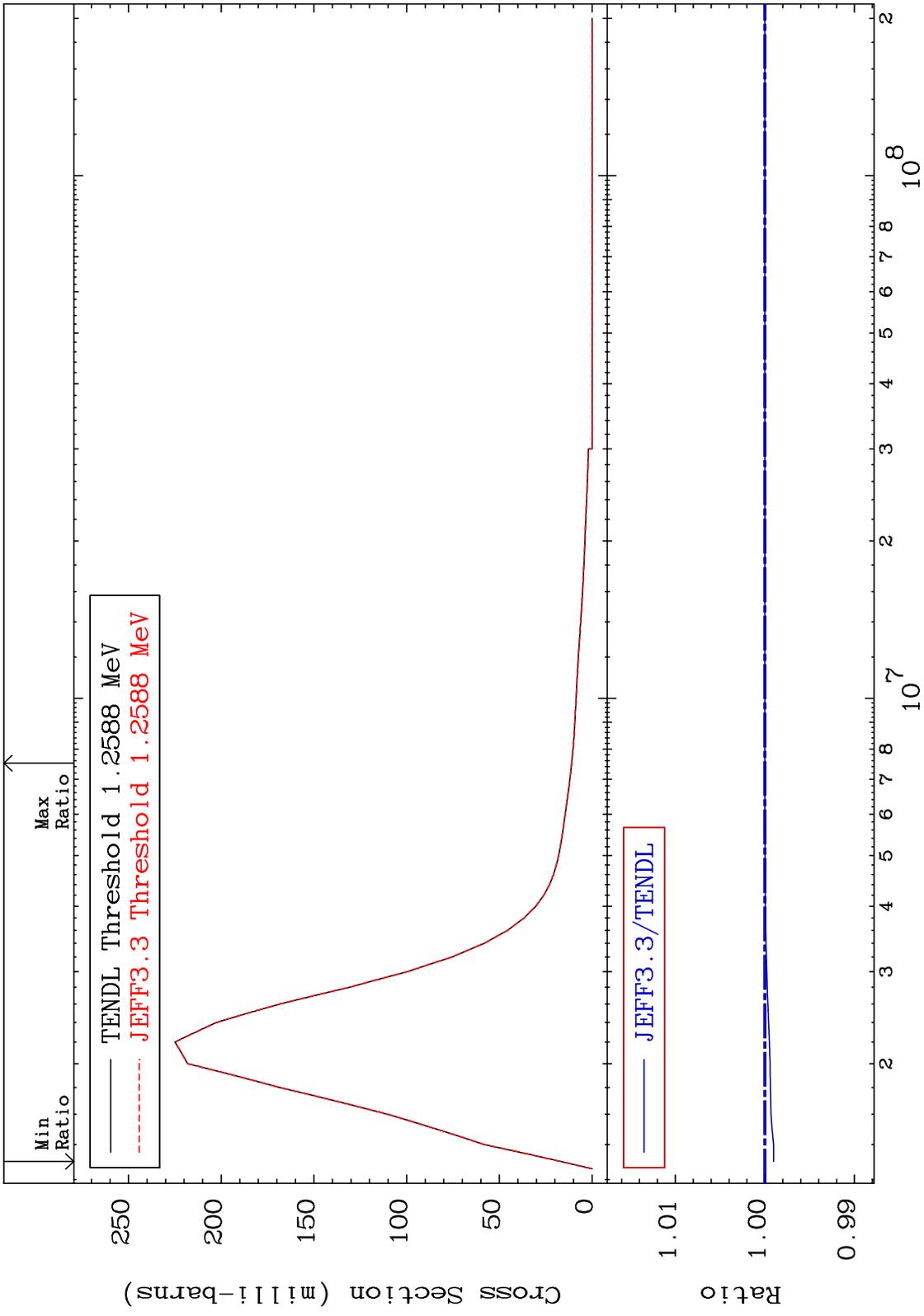
52-Te-124

Incident Energy (eV)

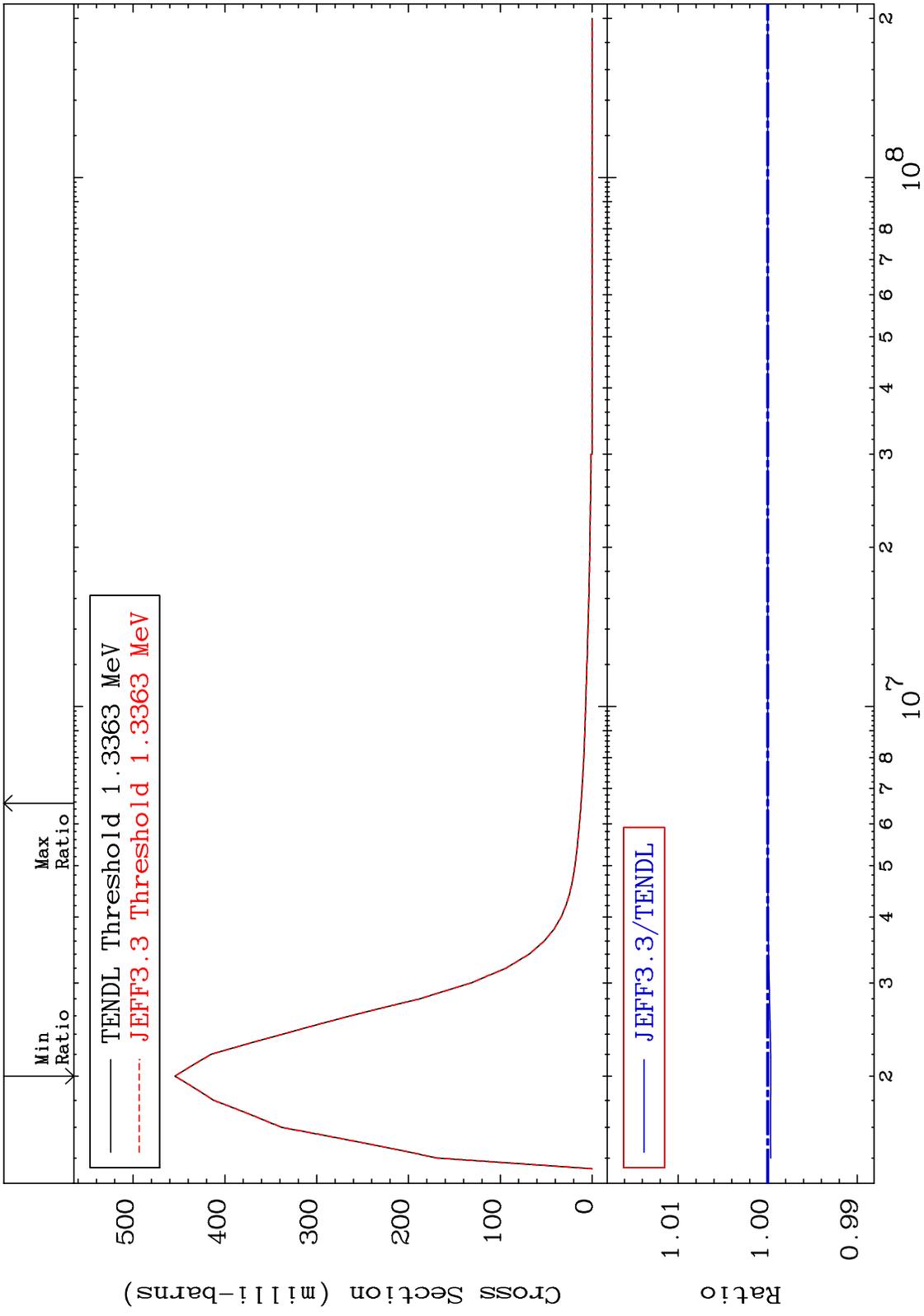
MAT 5237 MT= 51 (n,n') Level Cross Section 52-Te-124 -0.045 To 0.000 %



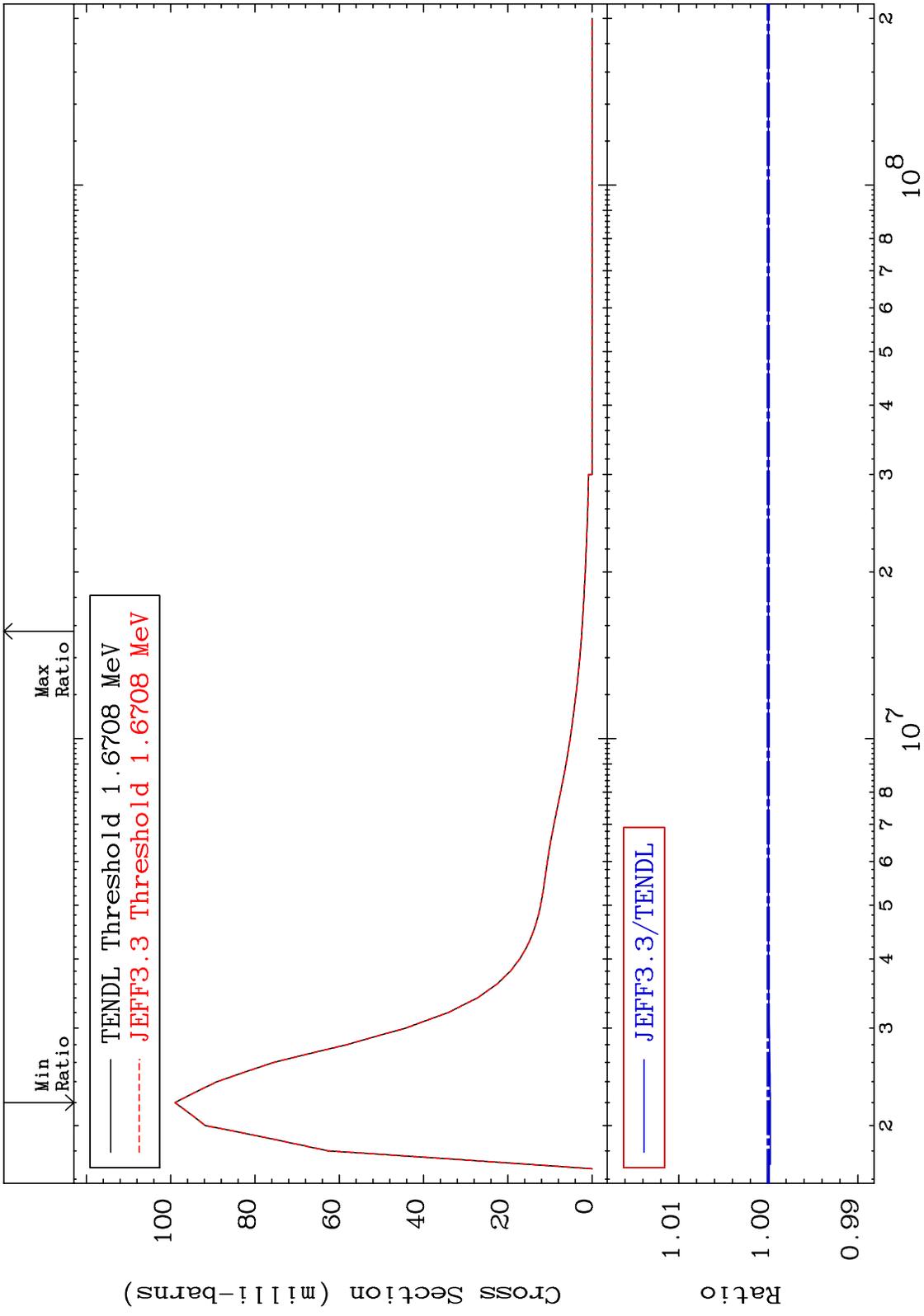
MAT 5237 MT= 52 (n,n') Level Cross Section 52-Te-124 -0.098 To 0.000 %



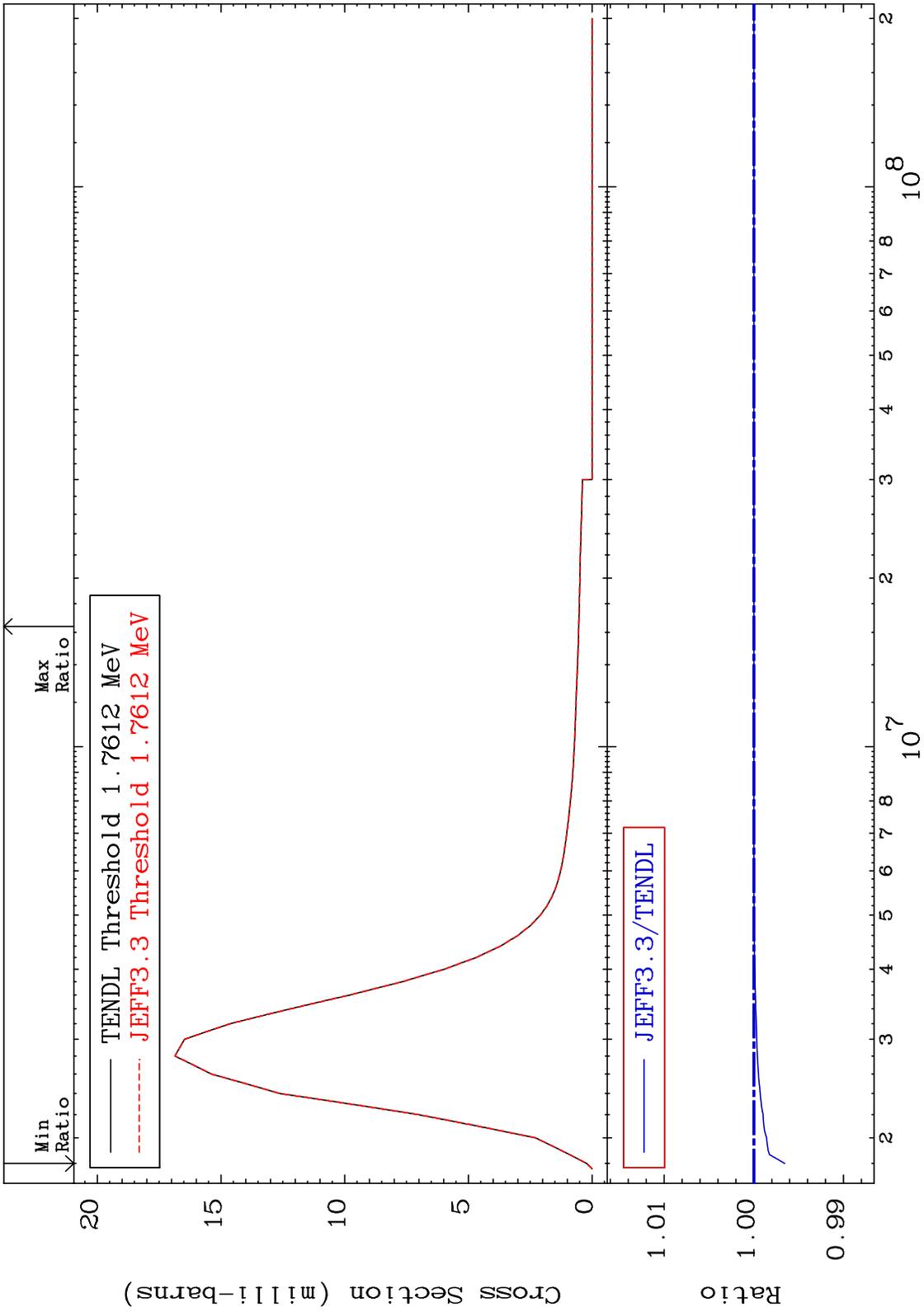
MAT 5237 MT= 53 (n,n') Level Cross Section 52-Te-124 -0.035 To 0.000 %



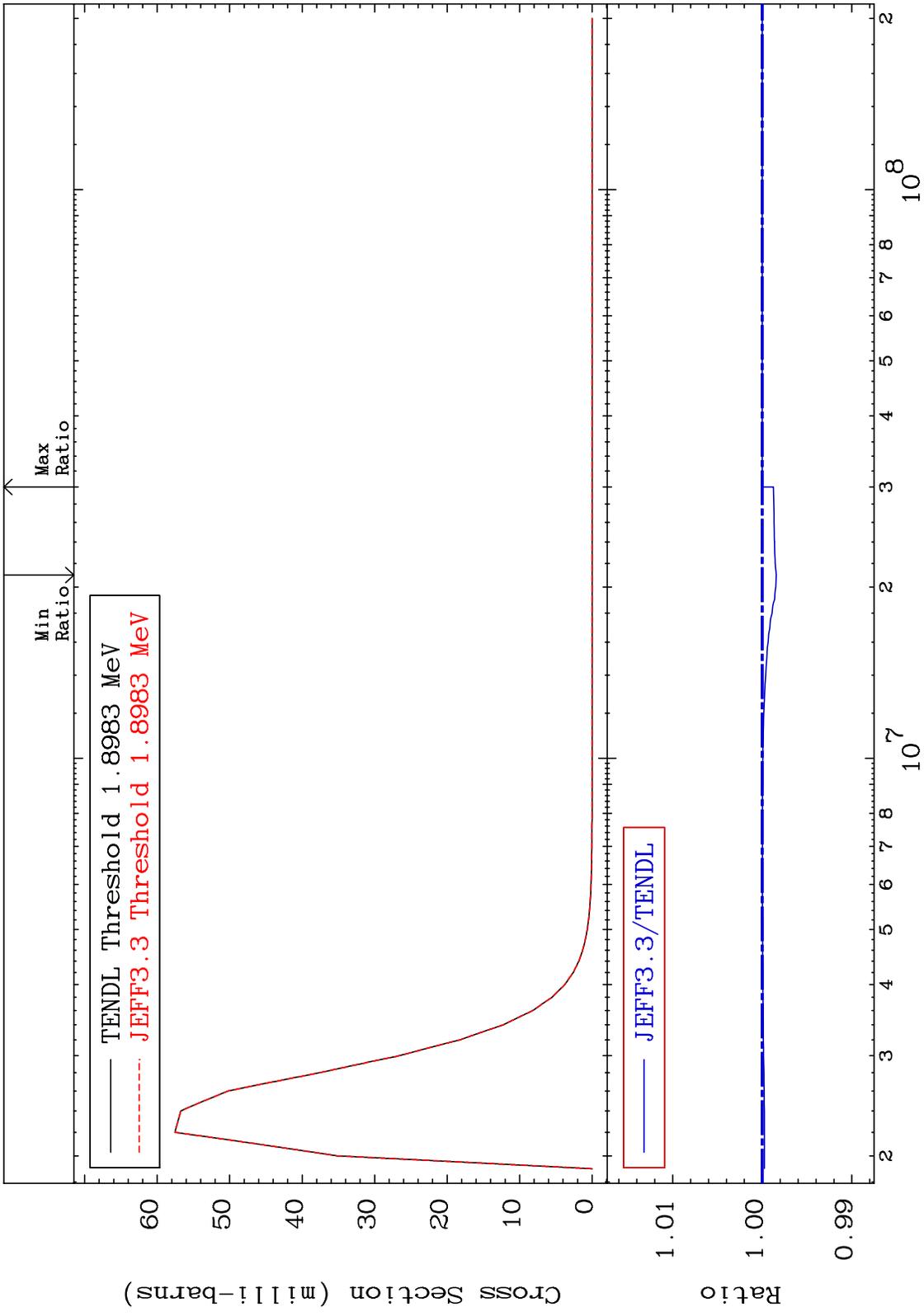
MAT 5237 MT= 54 (n,n') Level Cross Section 52-Te-124 -0.023 To 0.000 %



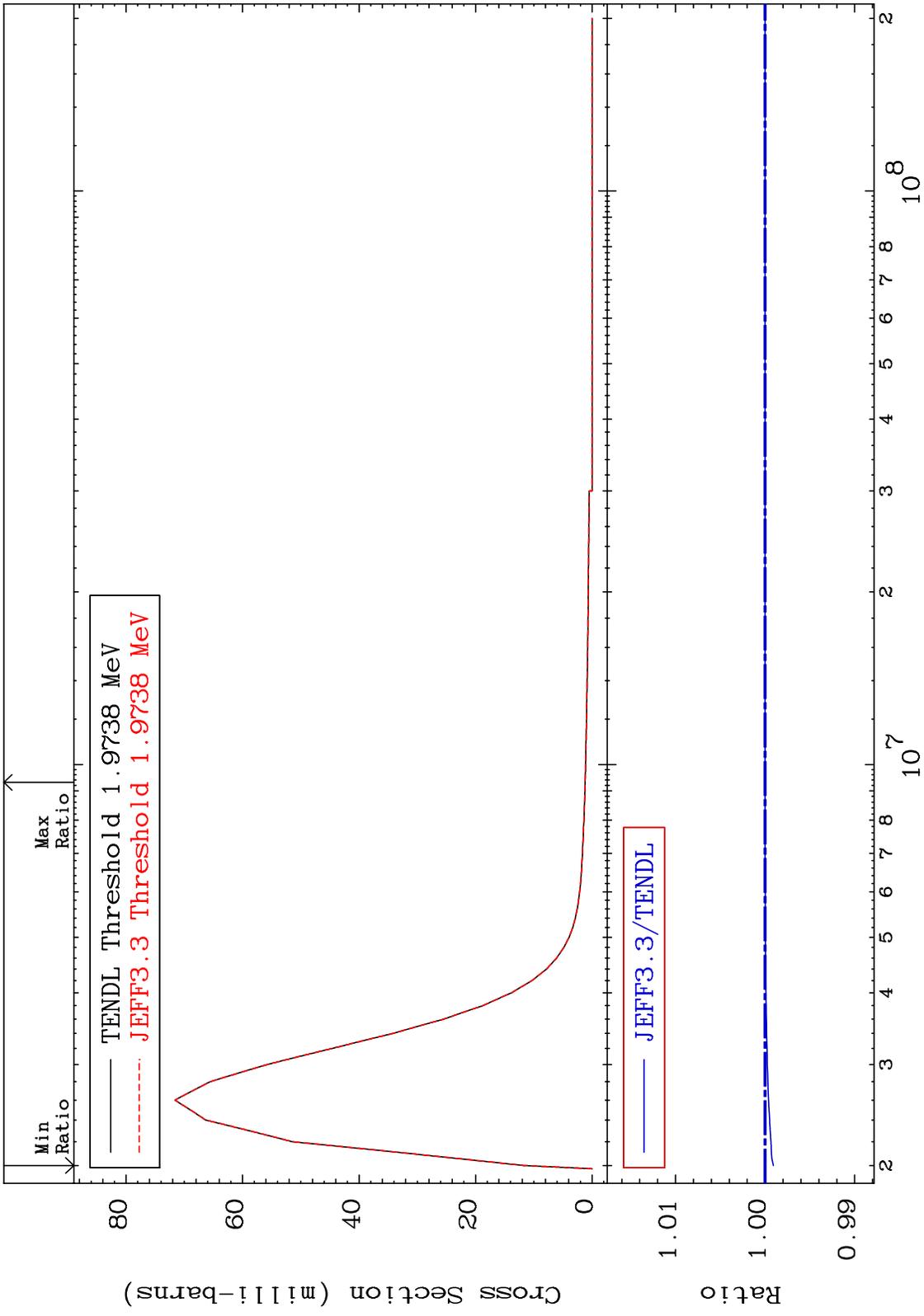
MAT 5237 MT= 55 (n,n') Level Cross Section 52-Te-124 -0.345 To 0.000 %



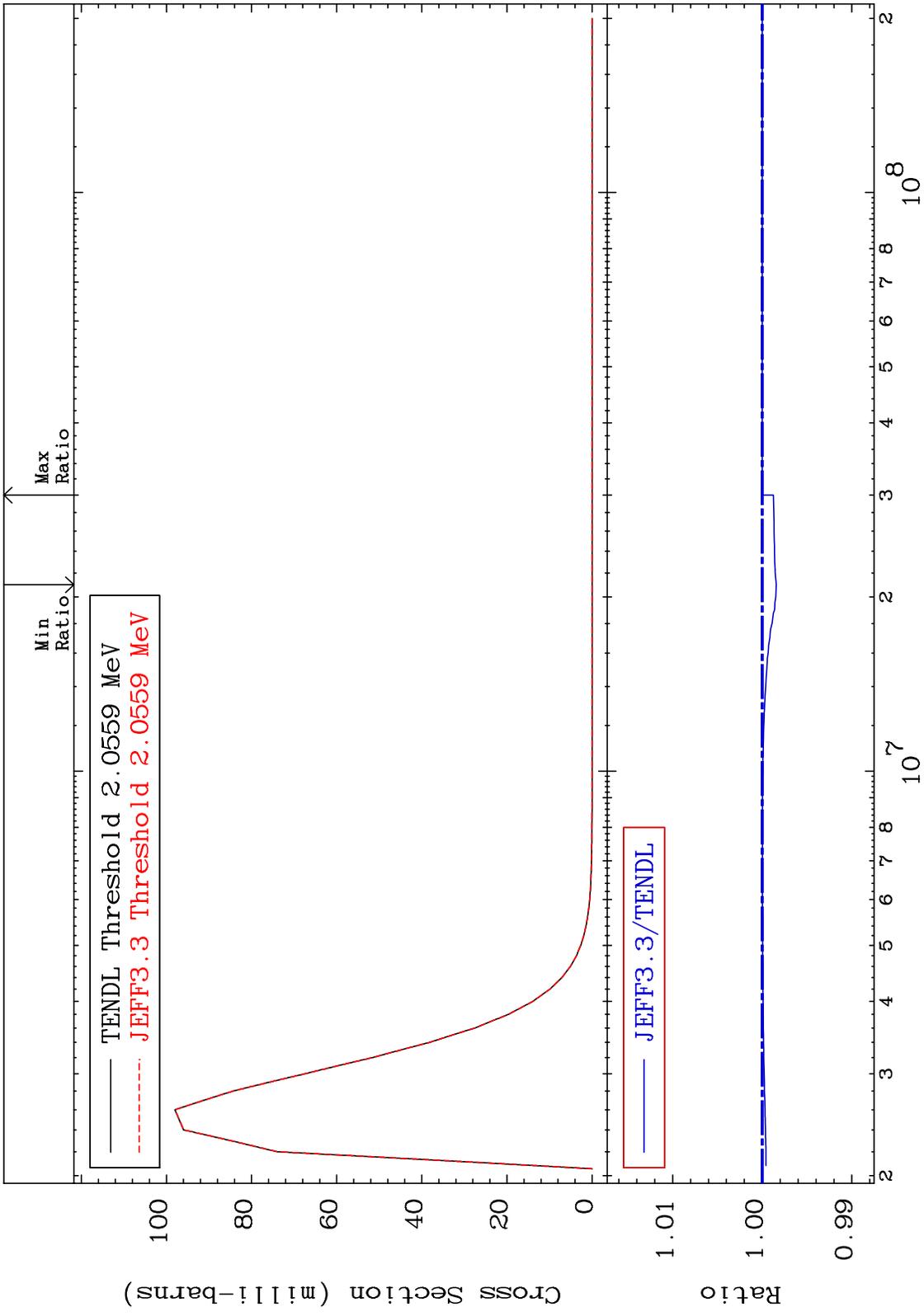
MAT 5237 MT= 56 (n,n') Level Cross Section 52-Te-124 -0.157 To 0.000 %



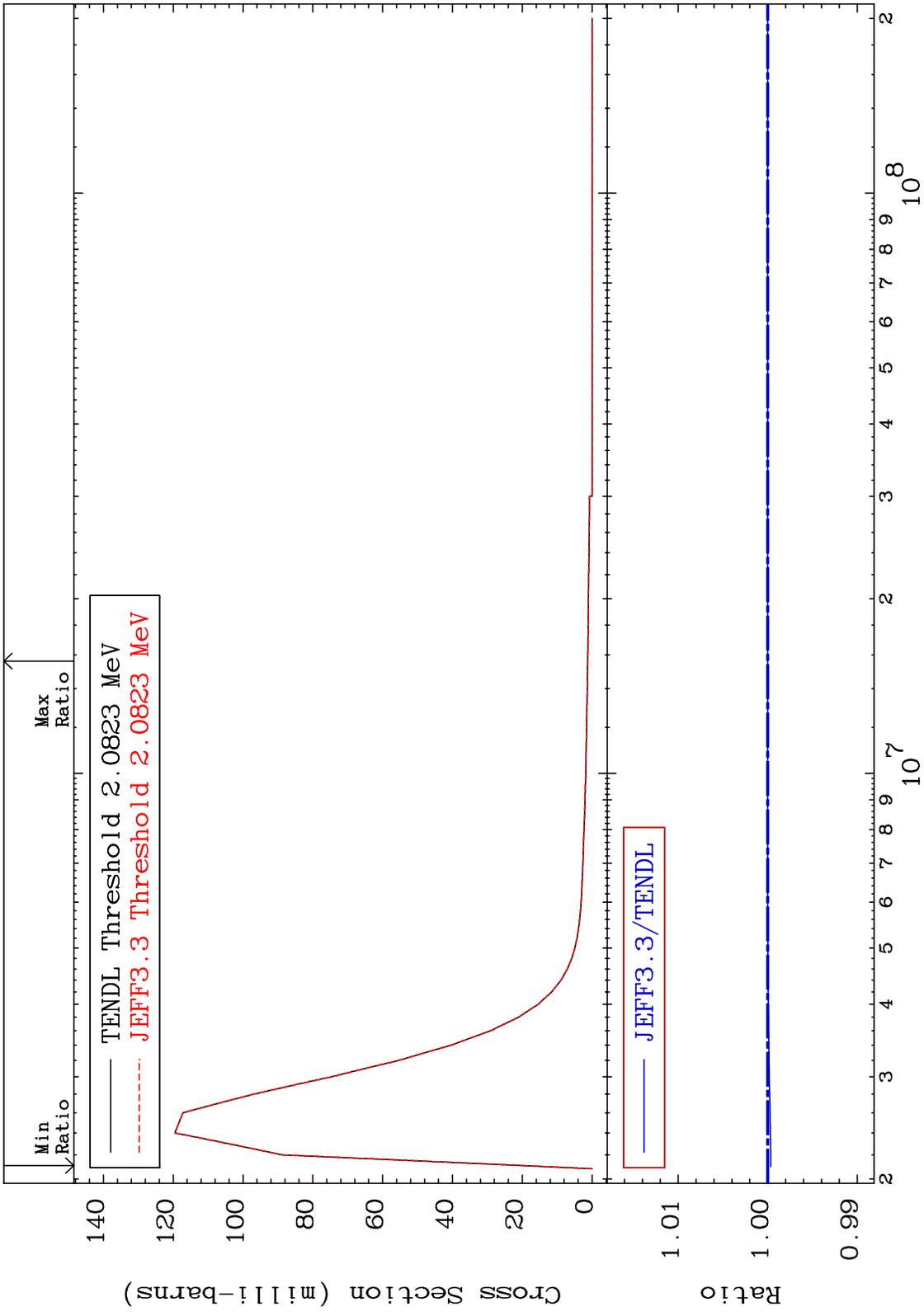
MAT 5237 MT= 57 (n,n') Level Cross Section 52-Te-124 -0.093 To 0.000 %



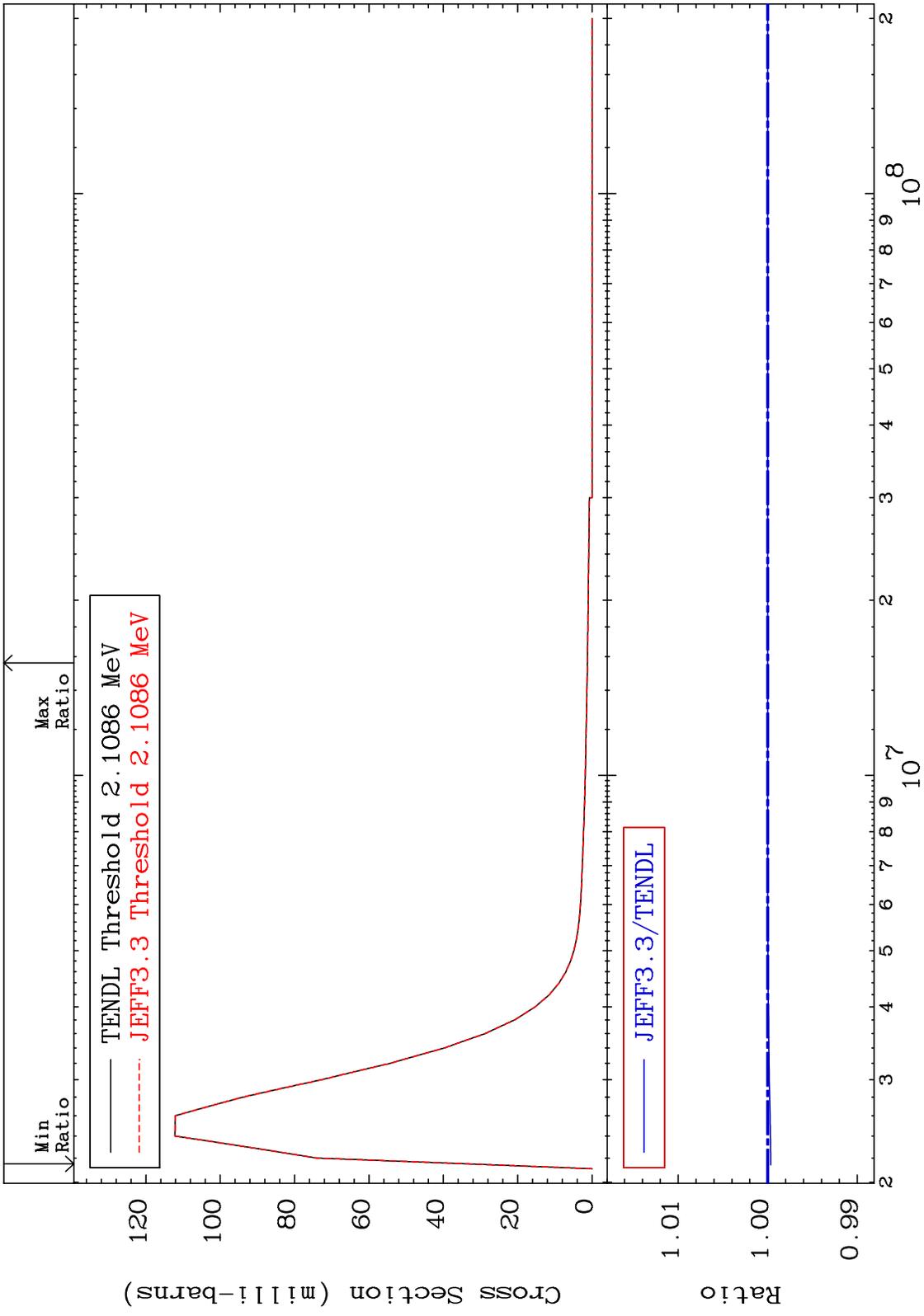
MAT 5237 MT= 58 (n,n') Level Cross Section 52-Te-124 -0.157 To 0.000 %



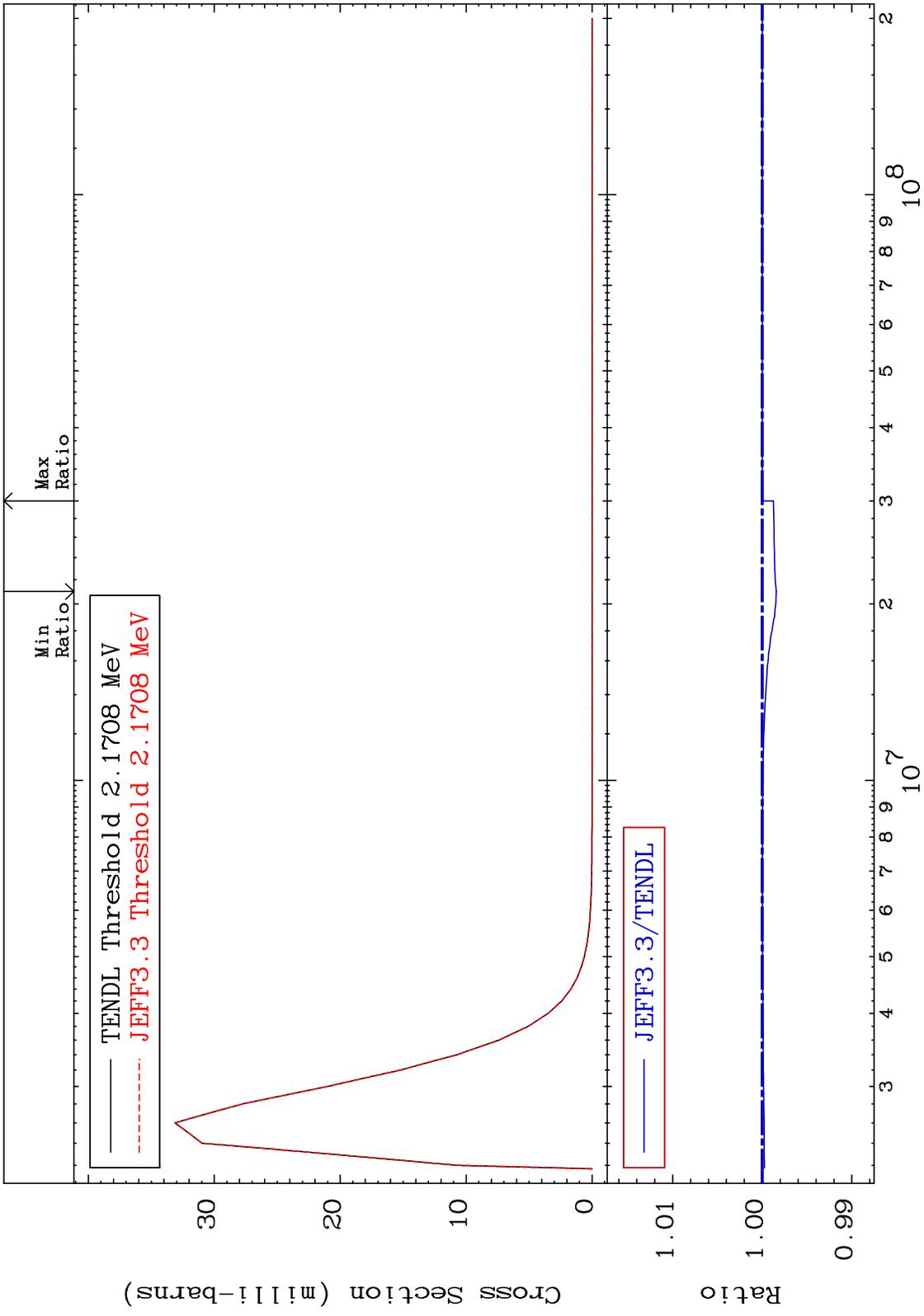
MAT 5237 MT= 59 (n,n') Level Cross Section 52-Te-124 -0.034 To 0.000 %



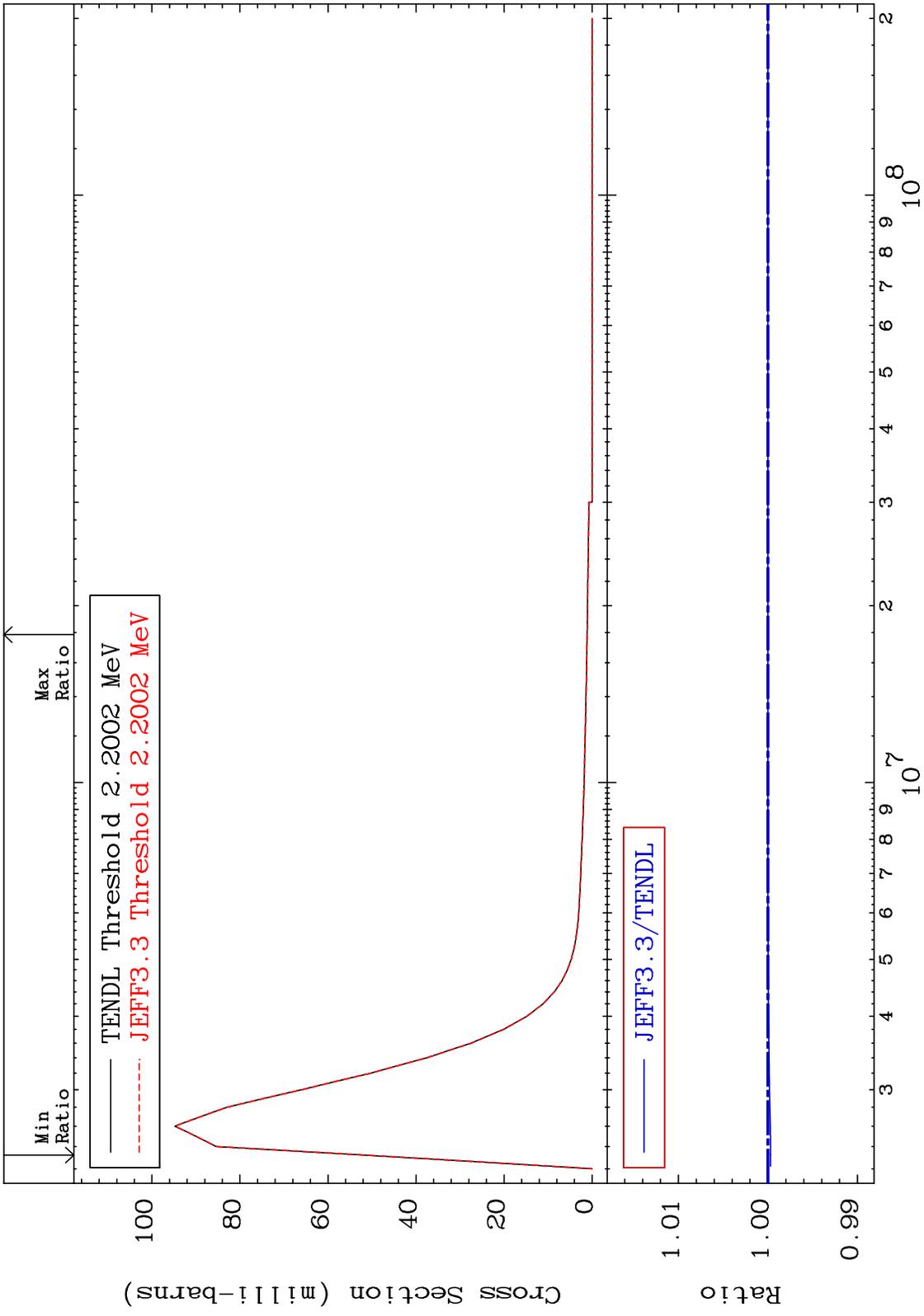
MAT 5237 MT= 60 (n,n') Level Cross Section 52-Te-124 -0.034 To 0.000 %



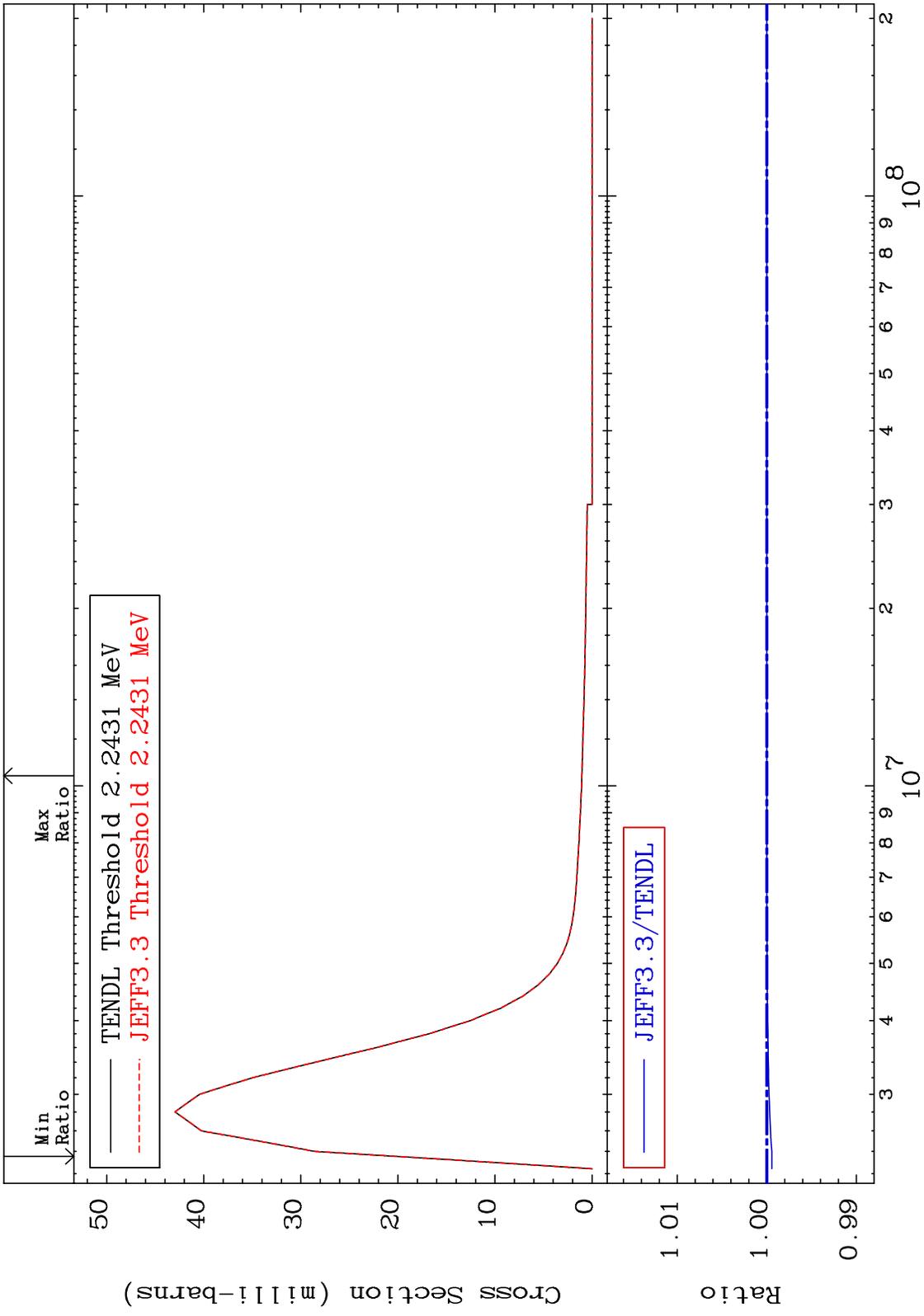
MAT 5237 MT= 61 (n,n') Level Cross Section 52-Te-124 -0.157 To 0.000 %



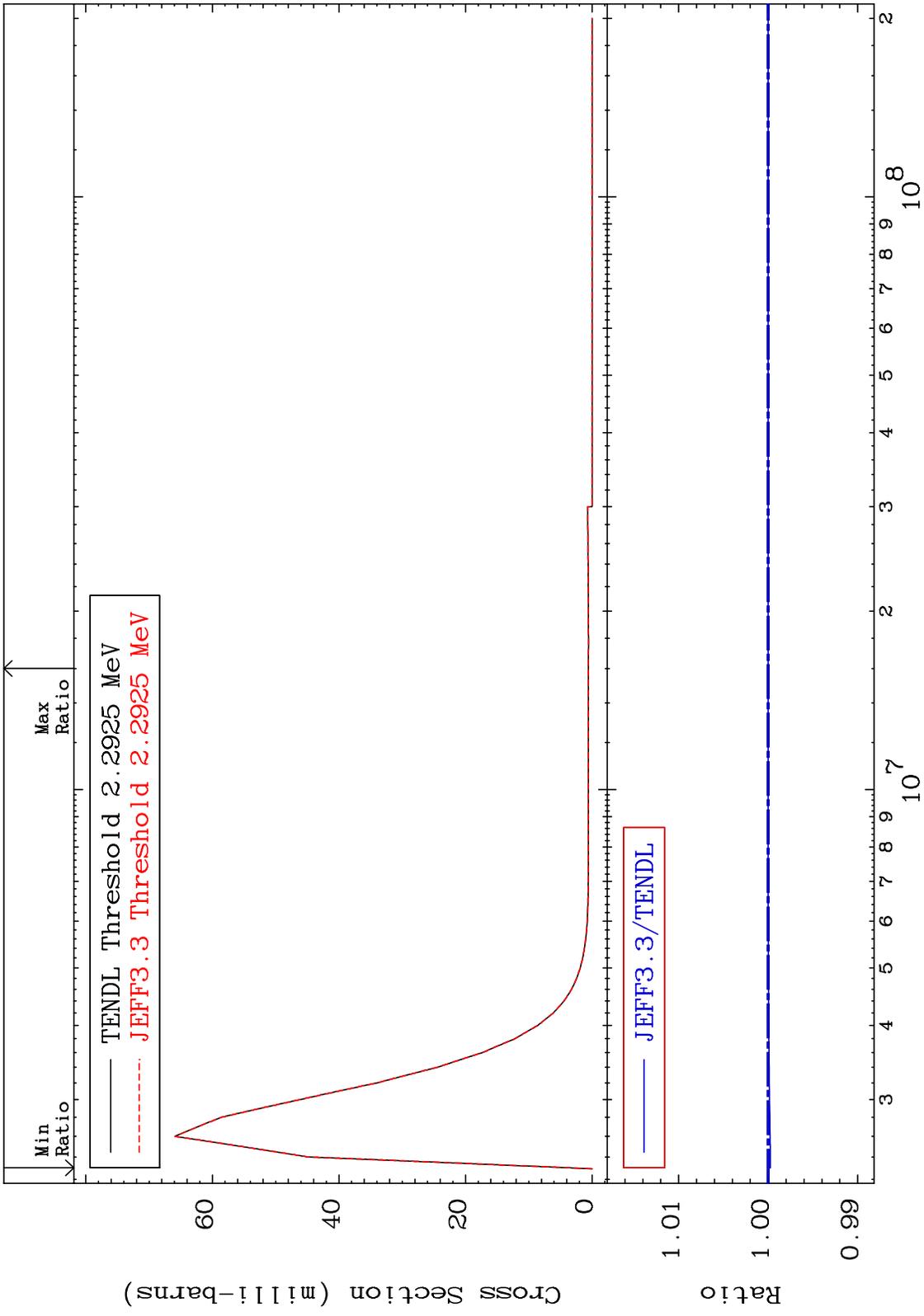
MAT 5237 MT= 62 (n,n') Level Cross Section 52-Te-124 -0.029 To 0.000 %



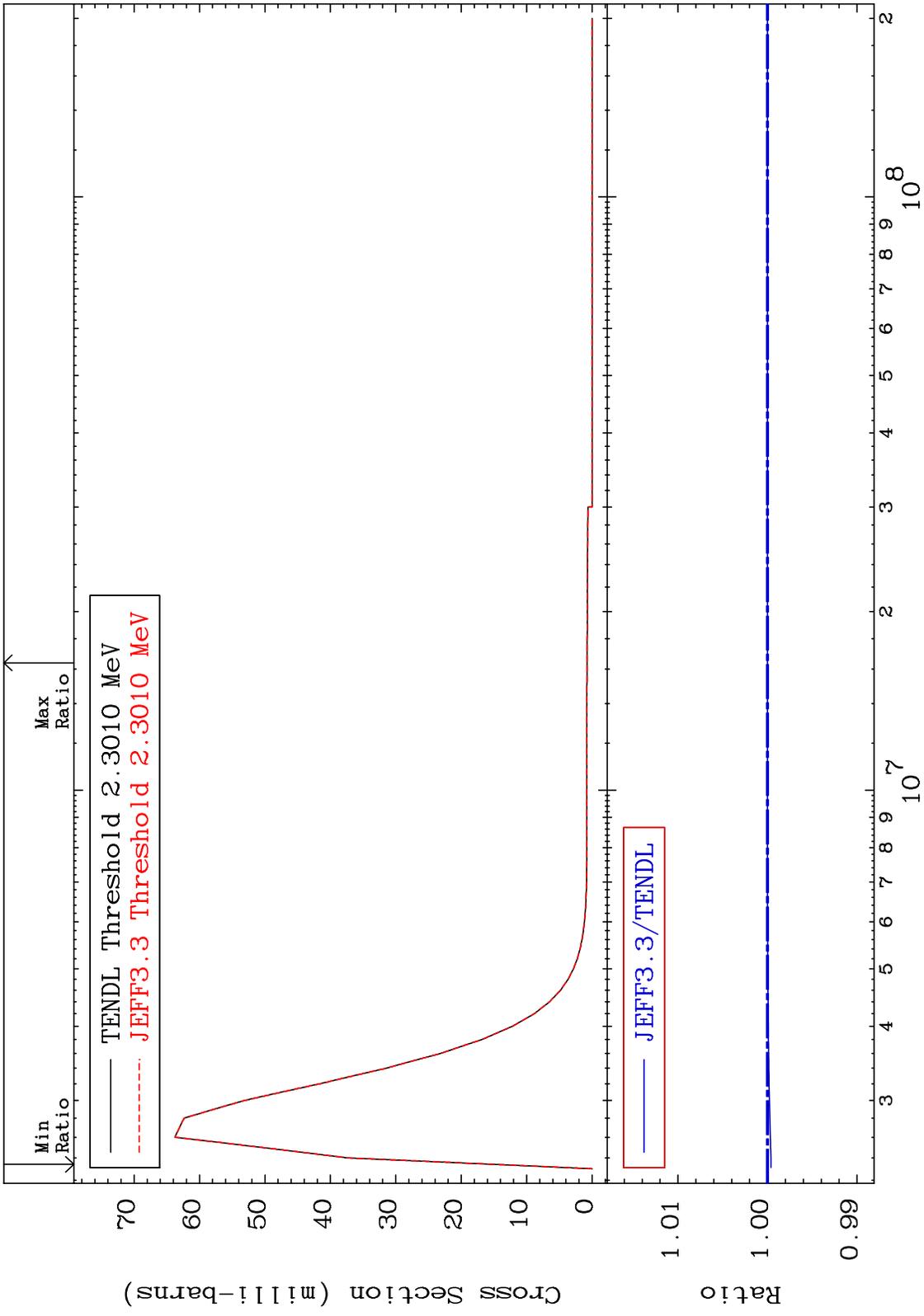
MAT 5237 MT= 63 (n,n') Level Cross Section 52-Te-124
 -0.056 To 0.000 %



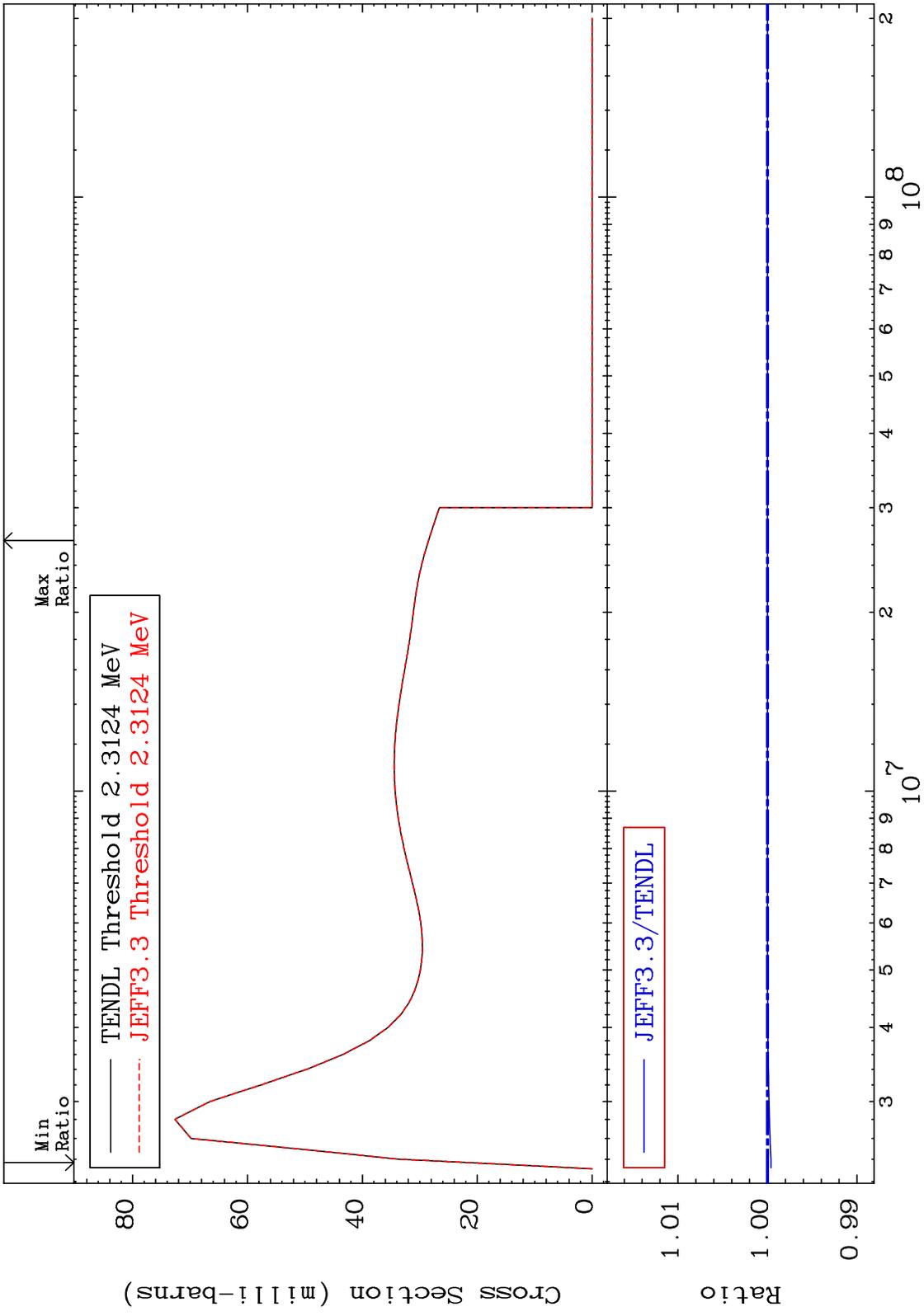
MAT 5237 MT= 64 (n,n') Level Cross Section 52-Te-124 -0.025 To 0.000 %



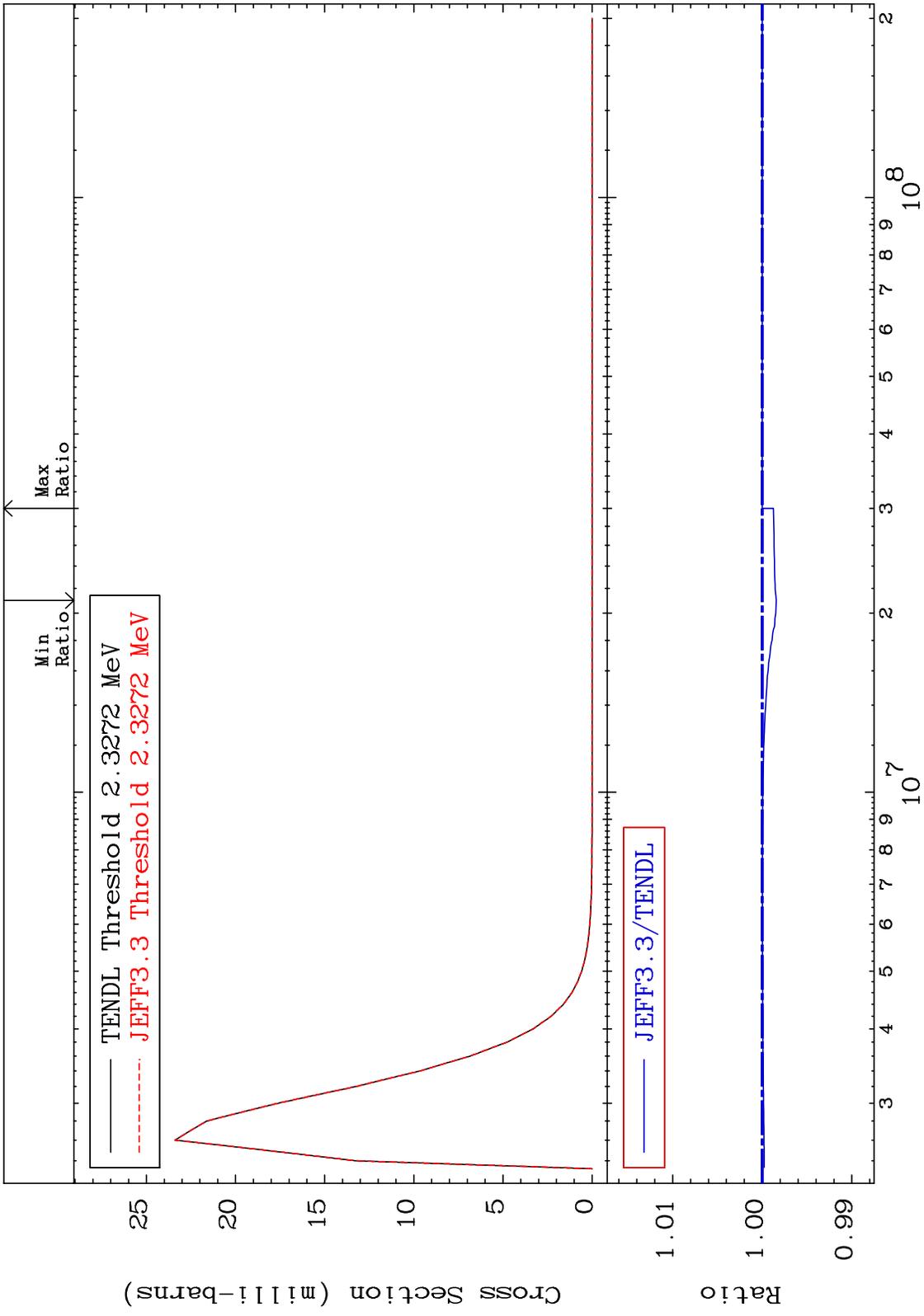
MAT 5237 MT= 65 (n,n') Level Cross Section 52-Te-124 -0.039 To 0.000 %



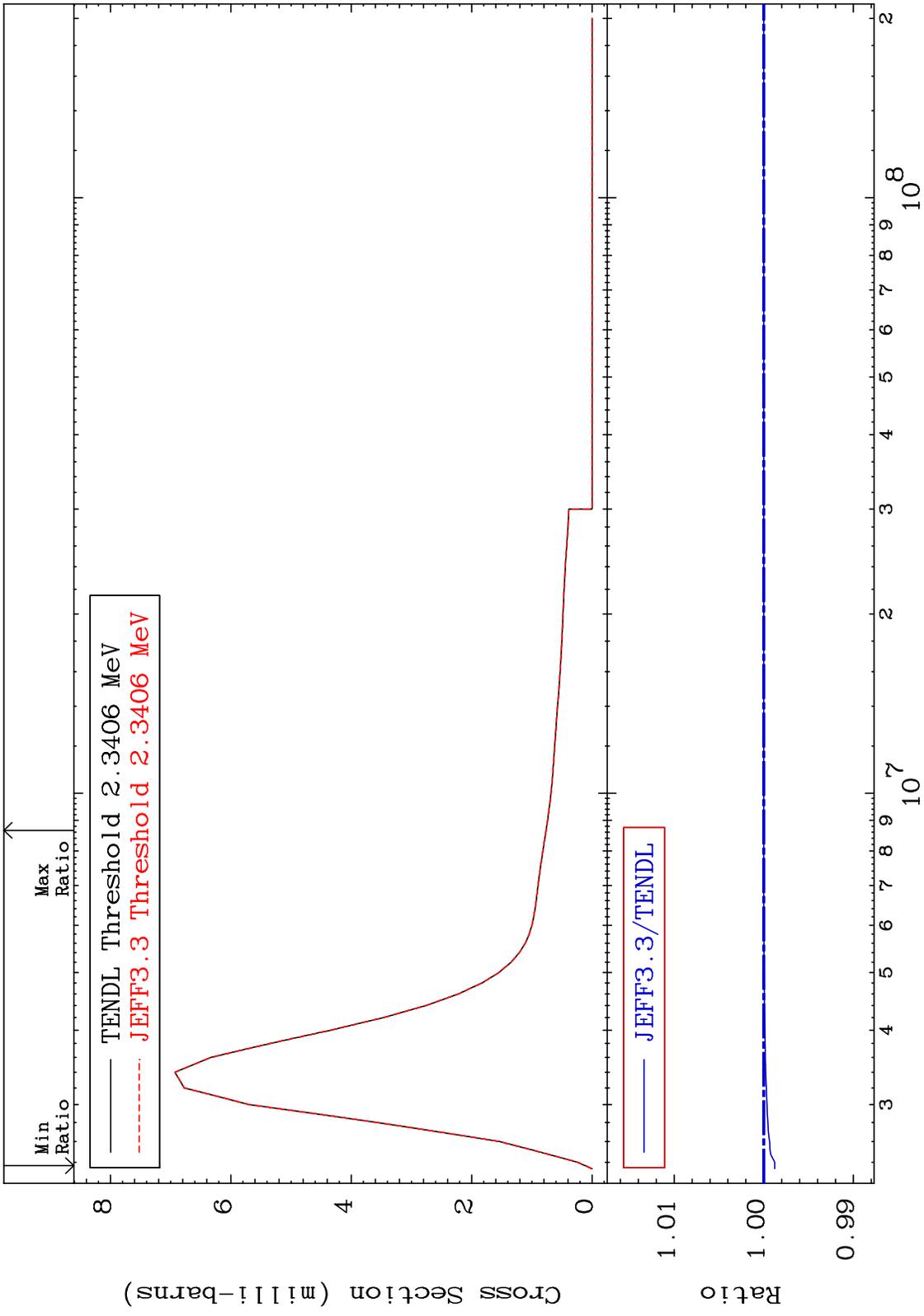
MAT 5237 MT= 66 (n,n') Level Cross Section 52-Te-124 -0.040 To 0.000 %



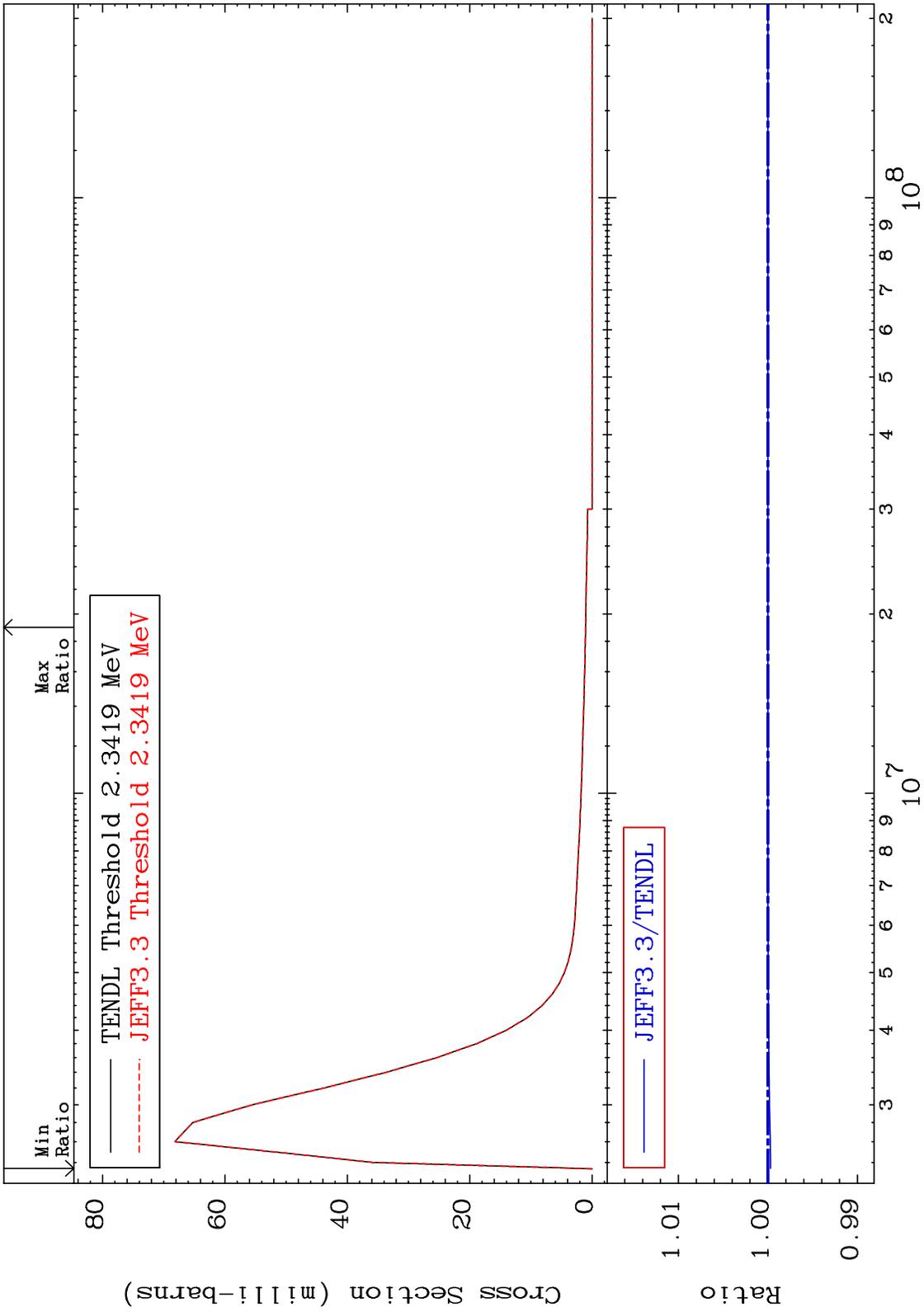
MAT 5237 MT= 67 (n,n') Level Cross Section 52-Te-124 -0.157 To 0.000 %



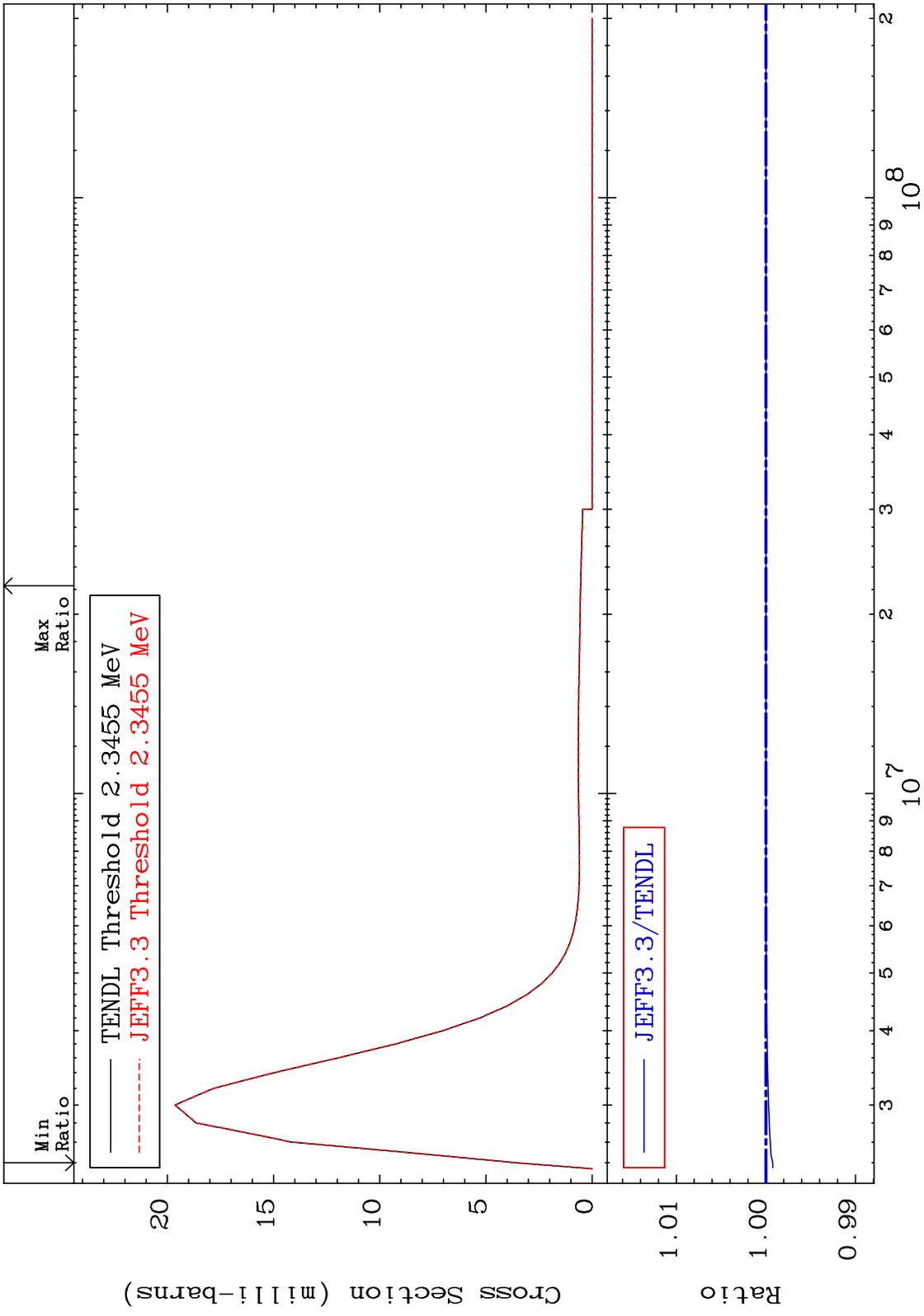
MAT 5237 MT= 68 (n,n') Level Cross Section 52-Te-124 -0.123 To 0.000 %



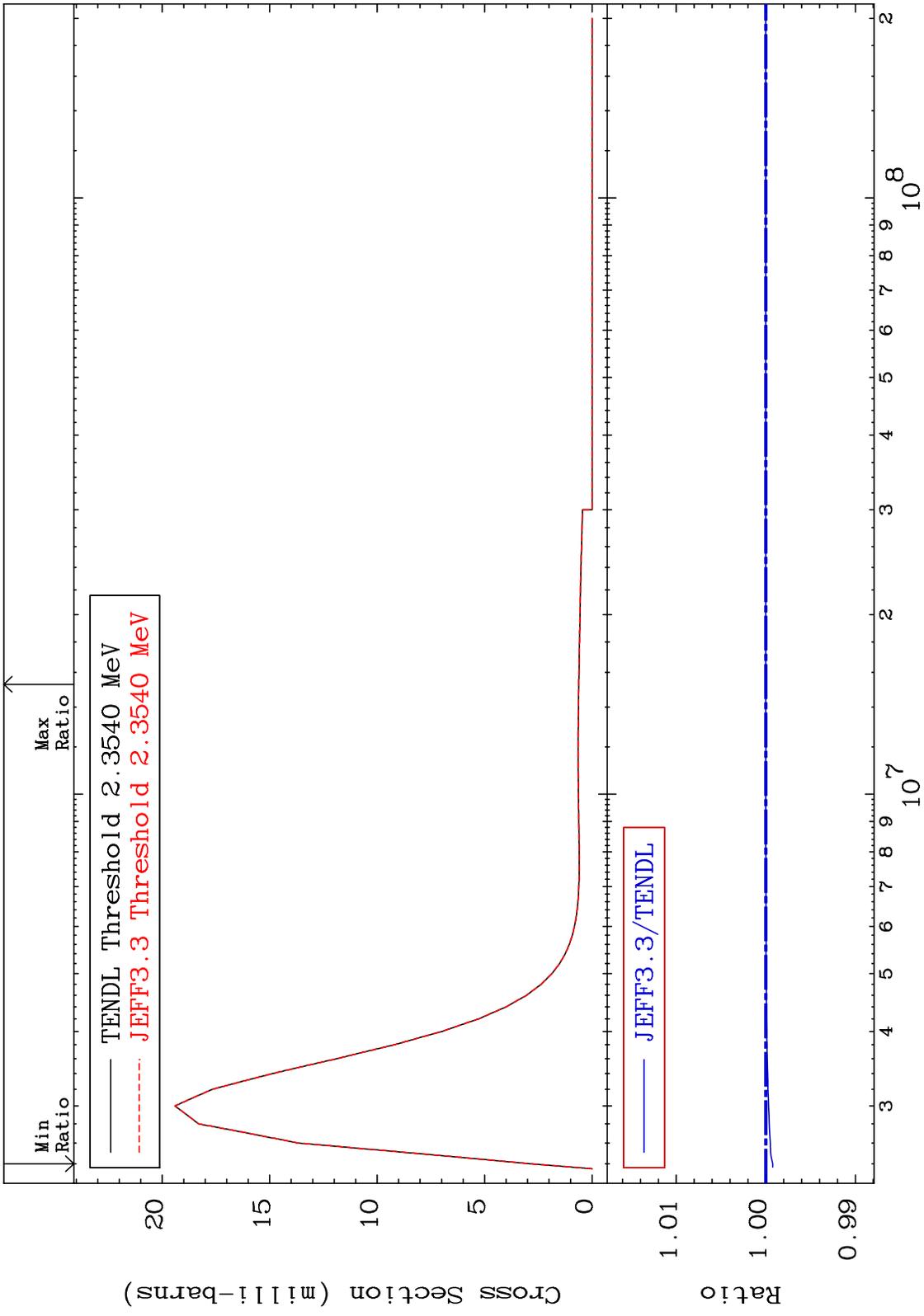
MAT 5237 MT= 69 (n,n') Level Cross Section 52-Te-124 -0.029 To 0.000 %



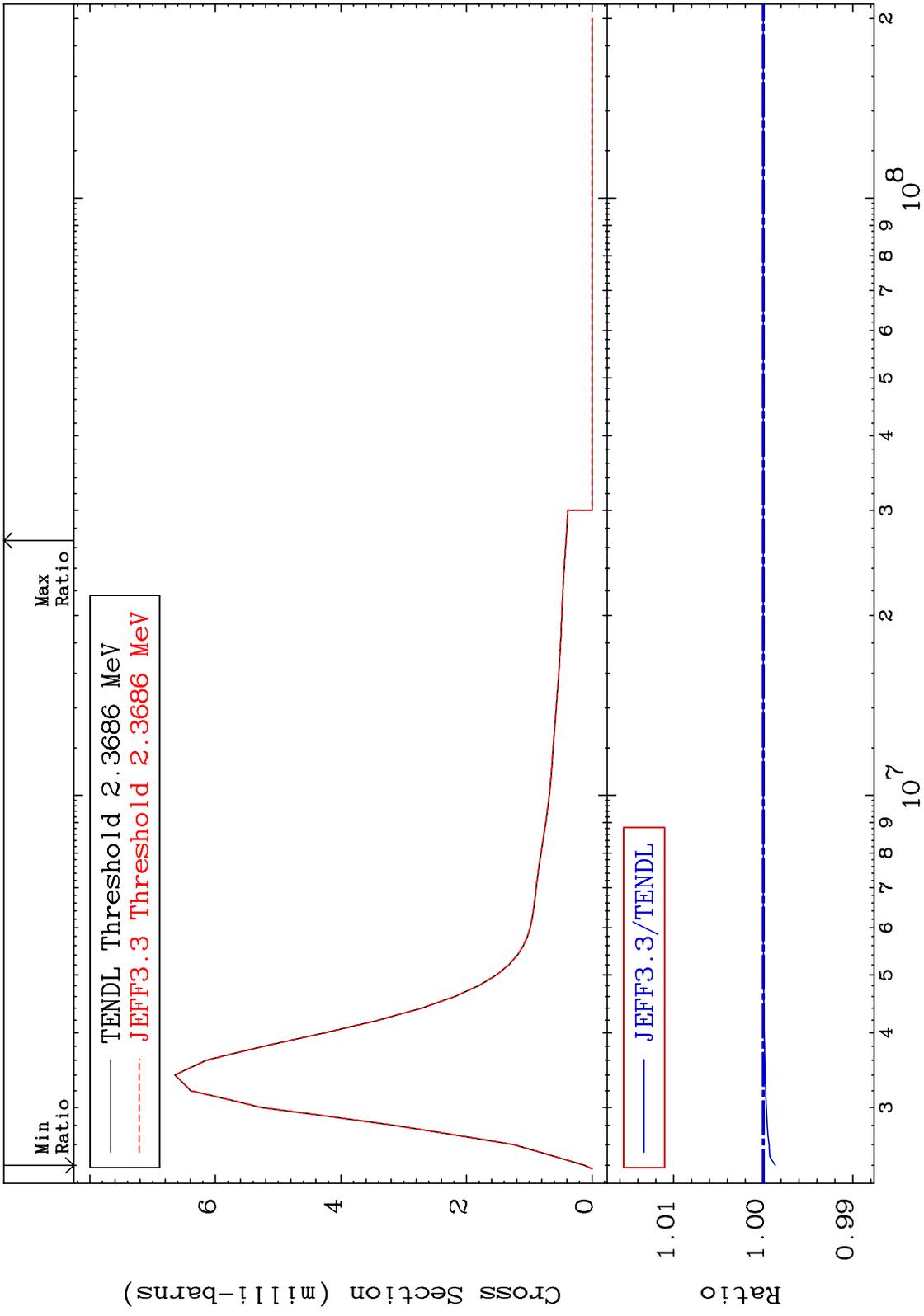
MAT 5237 MT= 70 (n,n') Level Cross Section 52-Te-124 -0.076 To 0.000 %



MAT 5237 MT= 71 (n,n') Level Cross Section 52-Te-124 -0.077 To 0.000 %

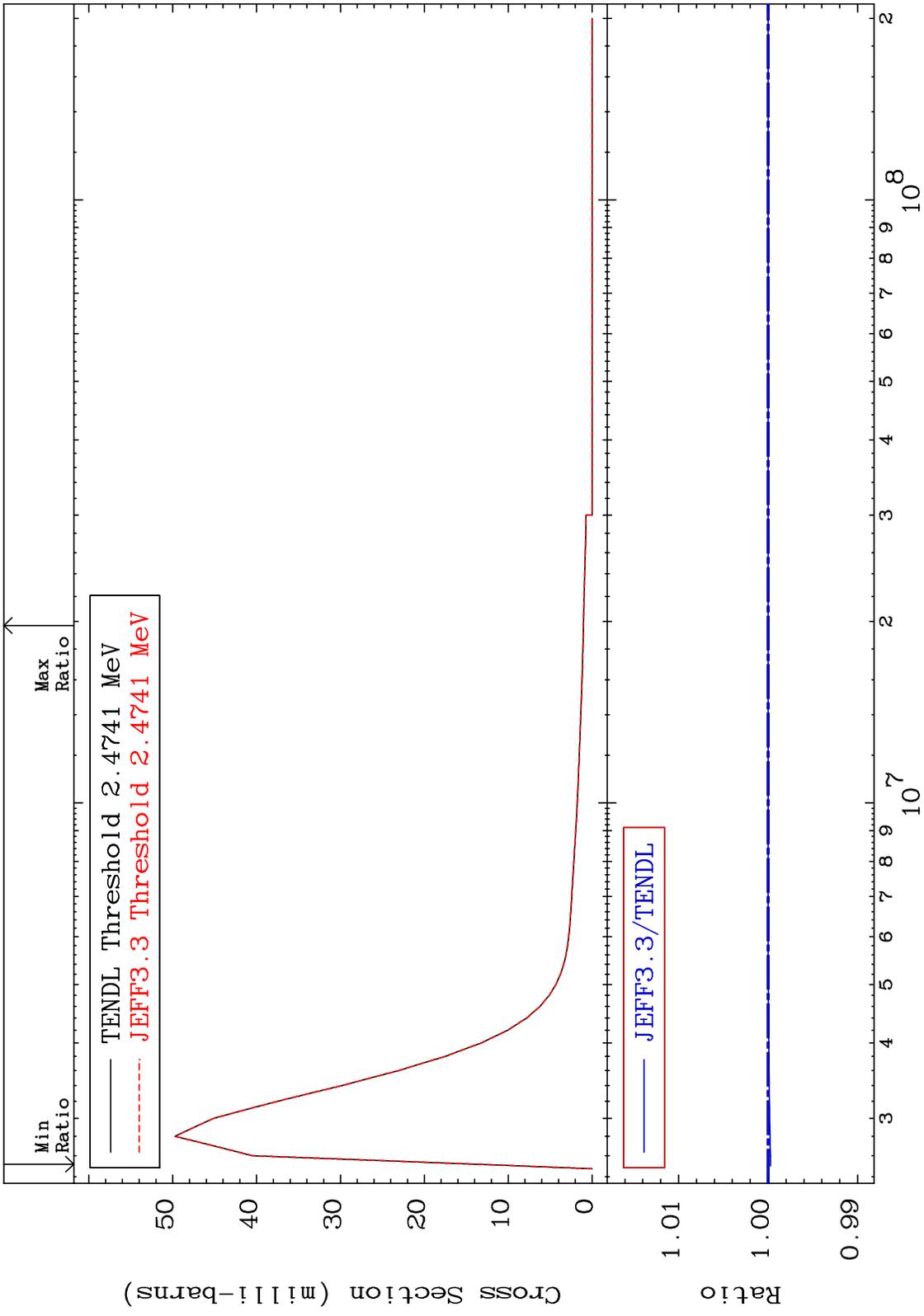


MAT 5237 MT= 72 (n,n') Level Cross Section 52-Te-124 -0.135 To 0.000 %

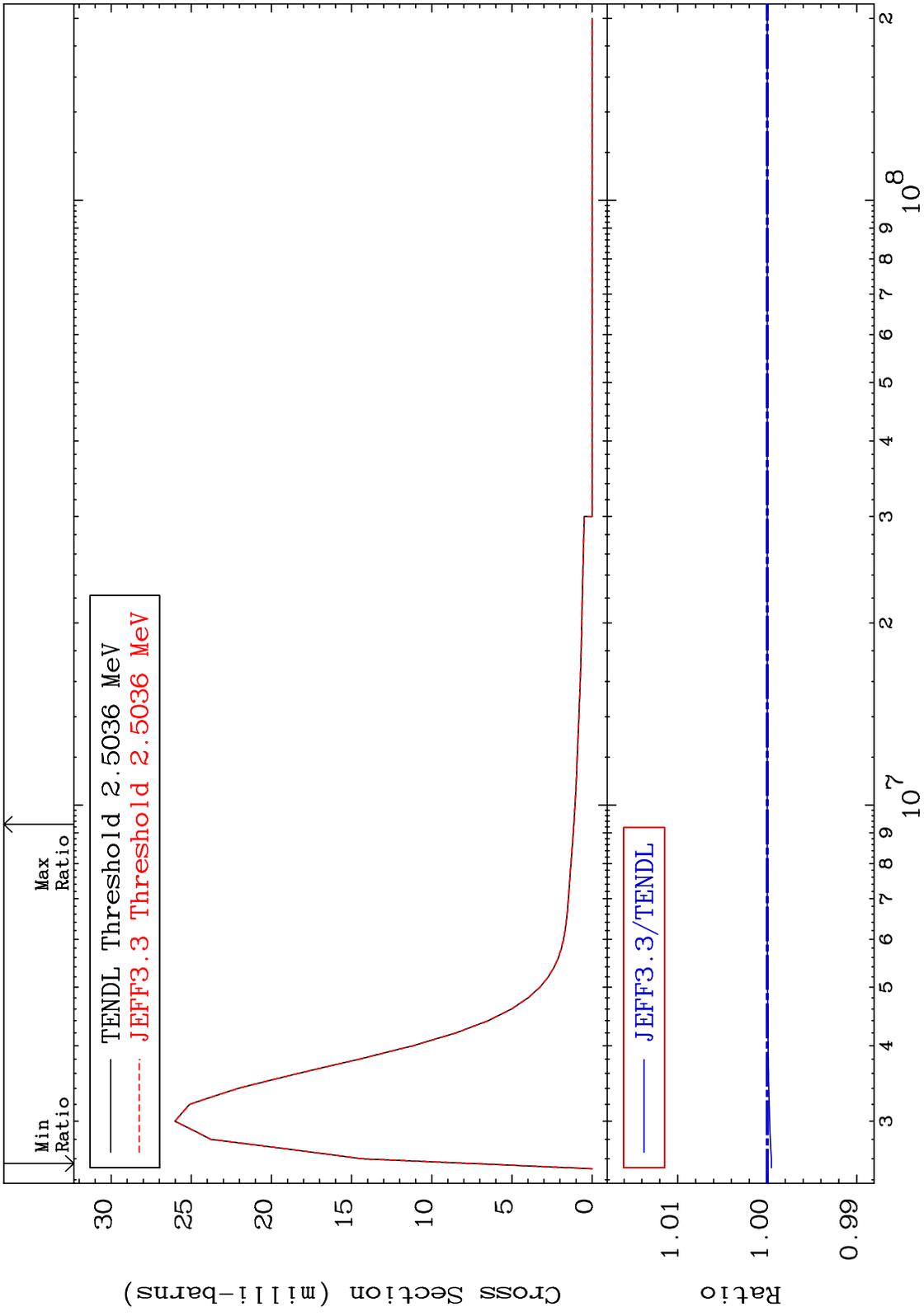


40 52-Te-124

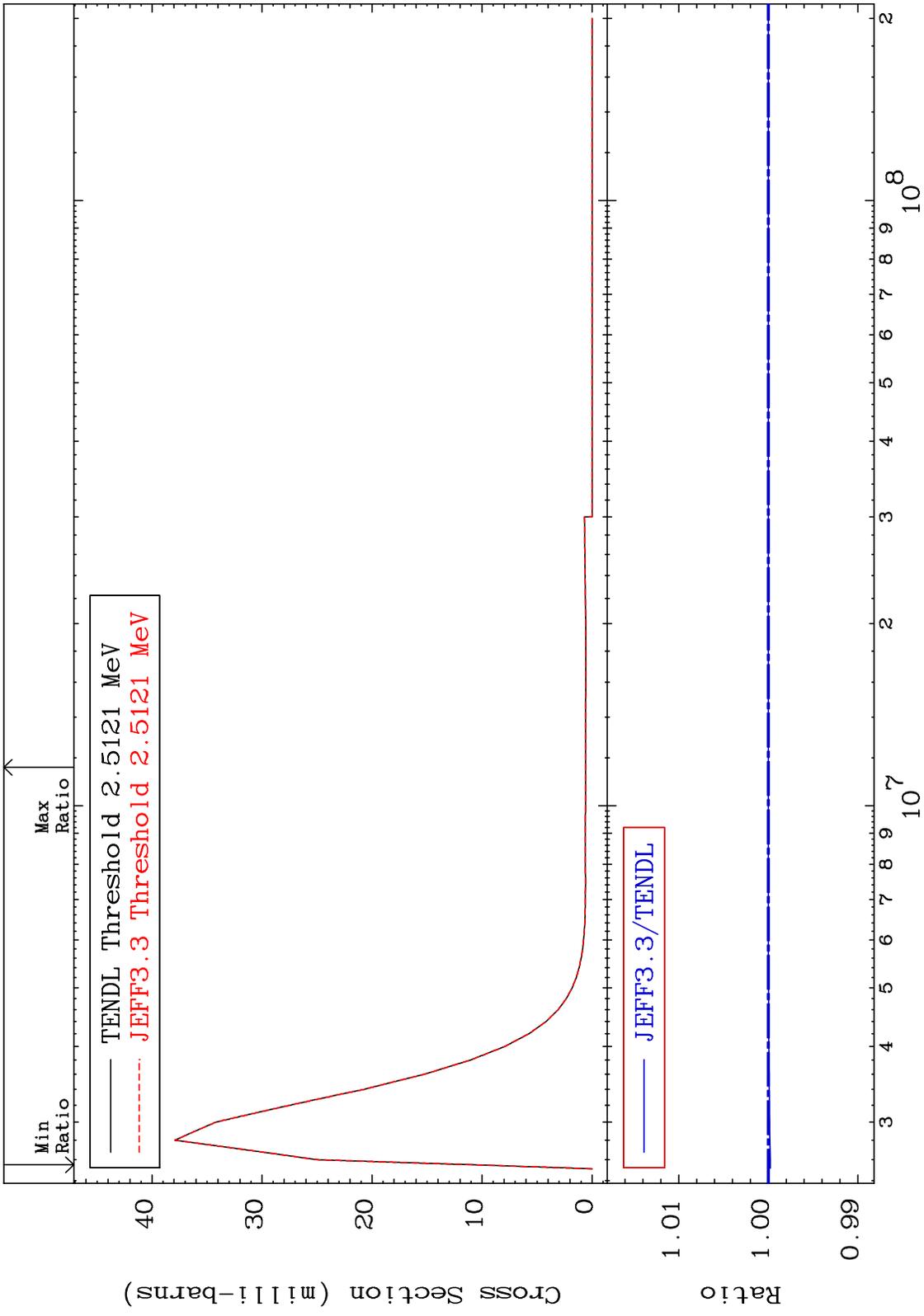
MAT 5237 MT= 73 (n,n') Level Cross Section 52-Te-124 -0.026 To 0.000 %



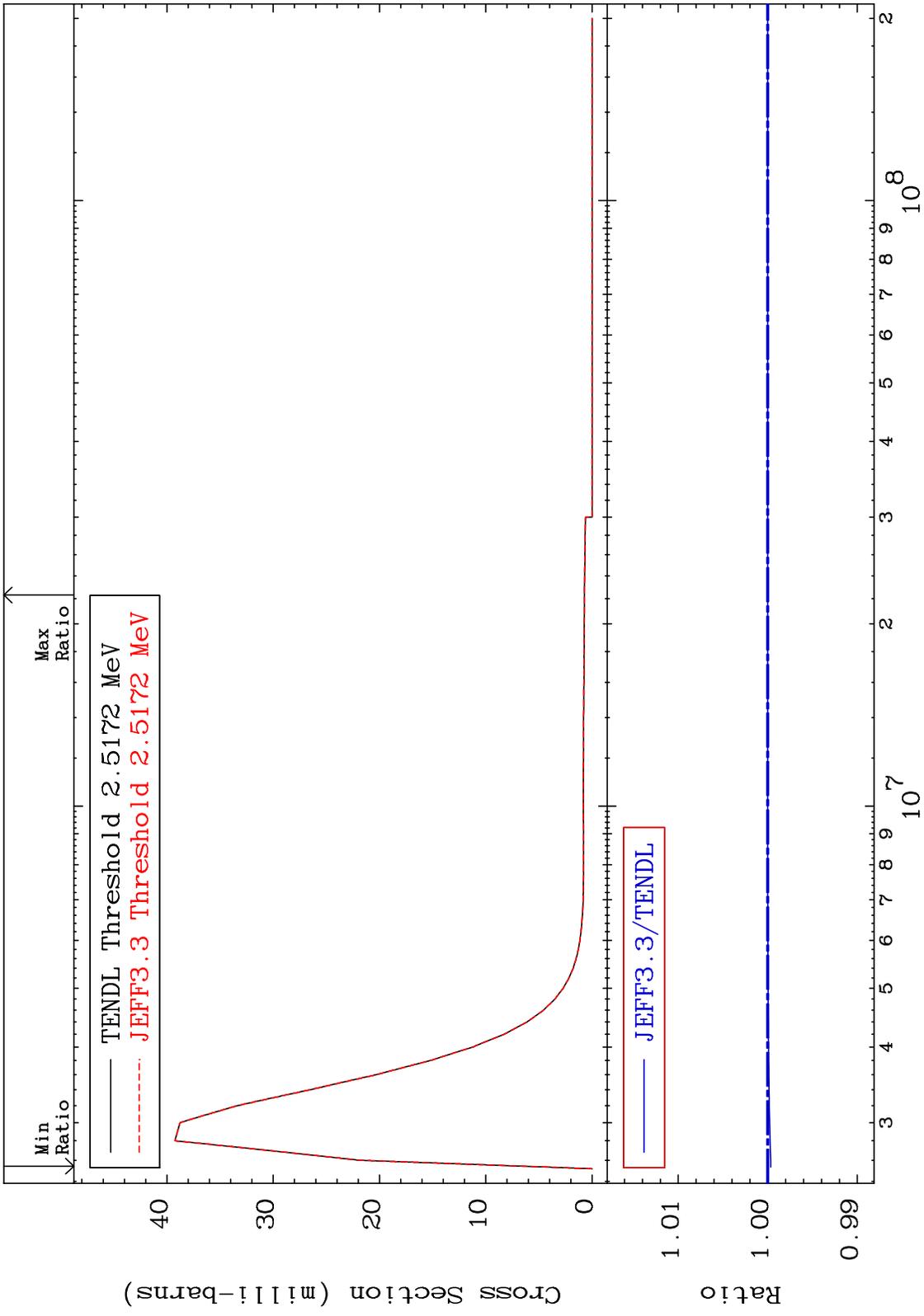
MAT 5237 MT= 74 (n,n') Level Cross Section 52-Te-124 -0.045 To 0.000 %



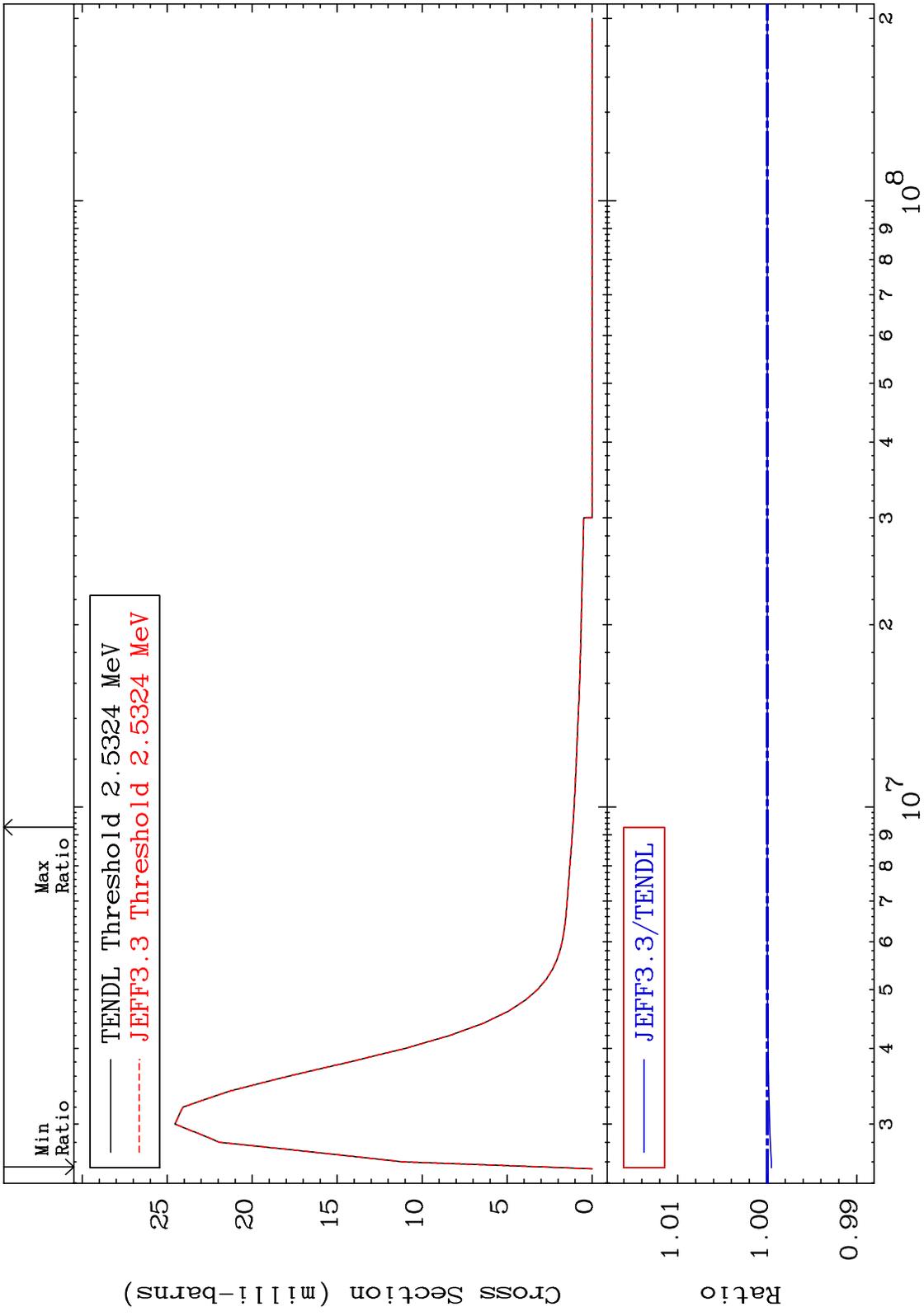
MAT 5237 MT= 75 (n,n') Level Cross Section 52-Te-124 -0.022 To 0.000 %



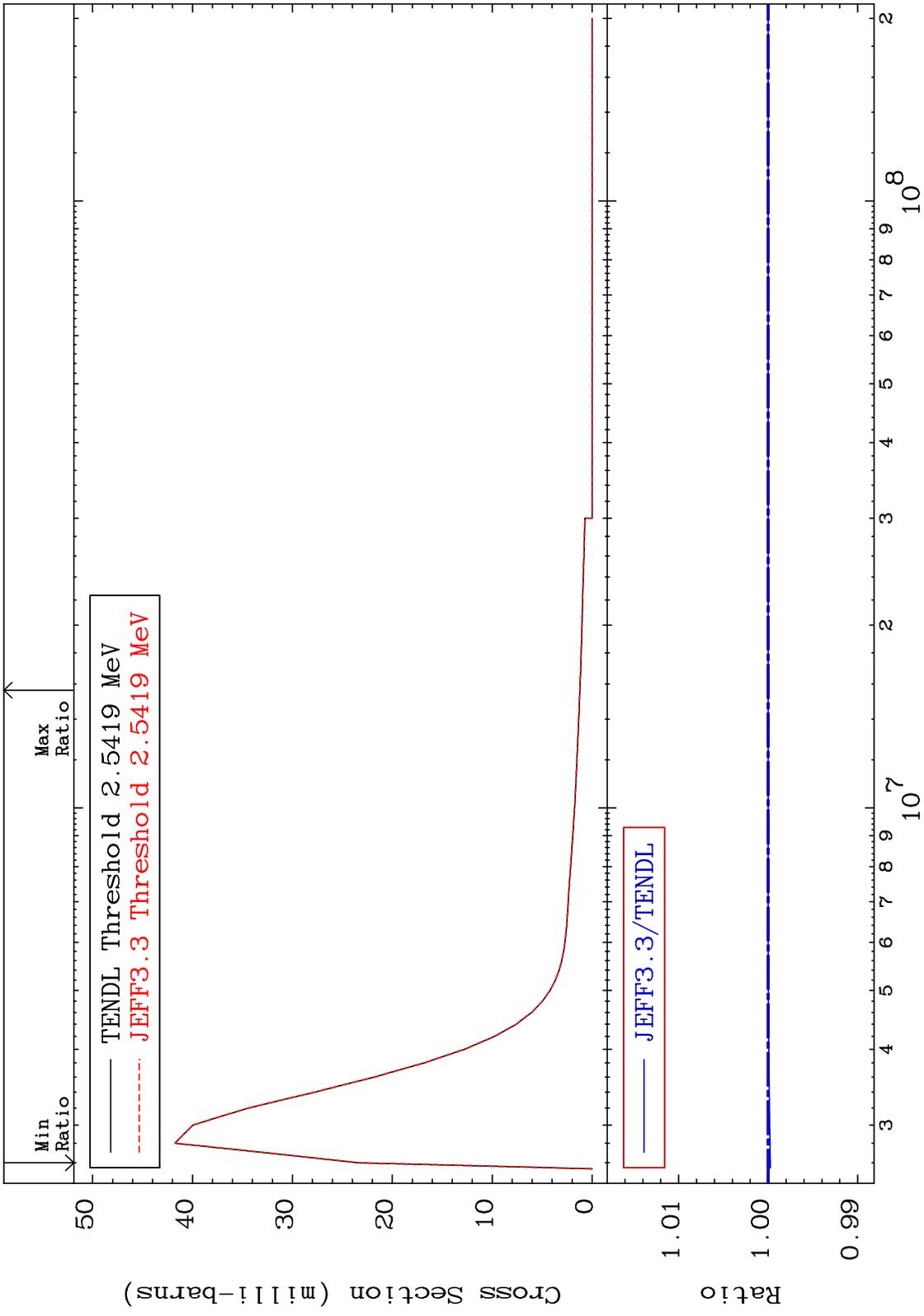
MAT 5237 MT= 76 (n,n') Level Cross Section 52-Te-124
 -0.034 To 0.000 %



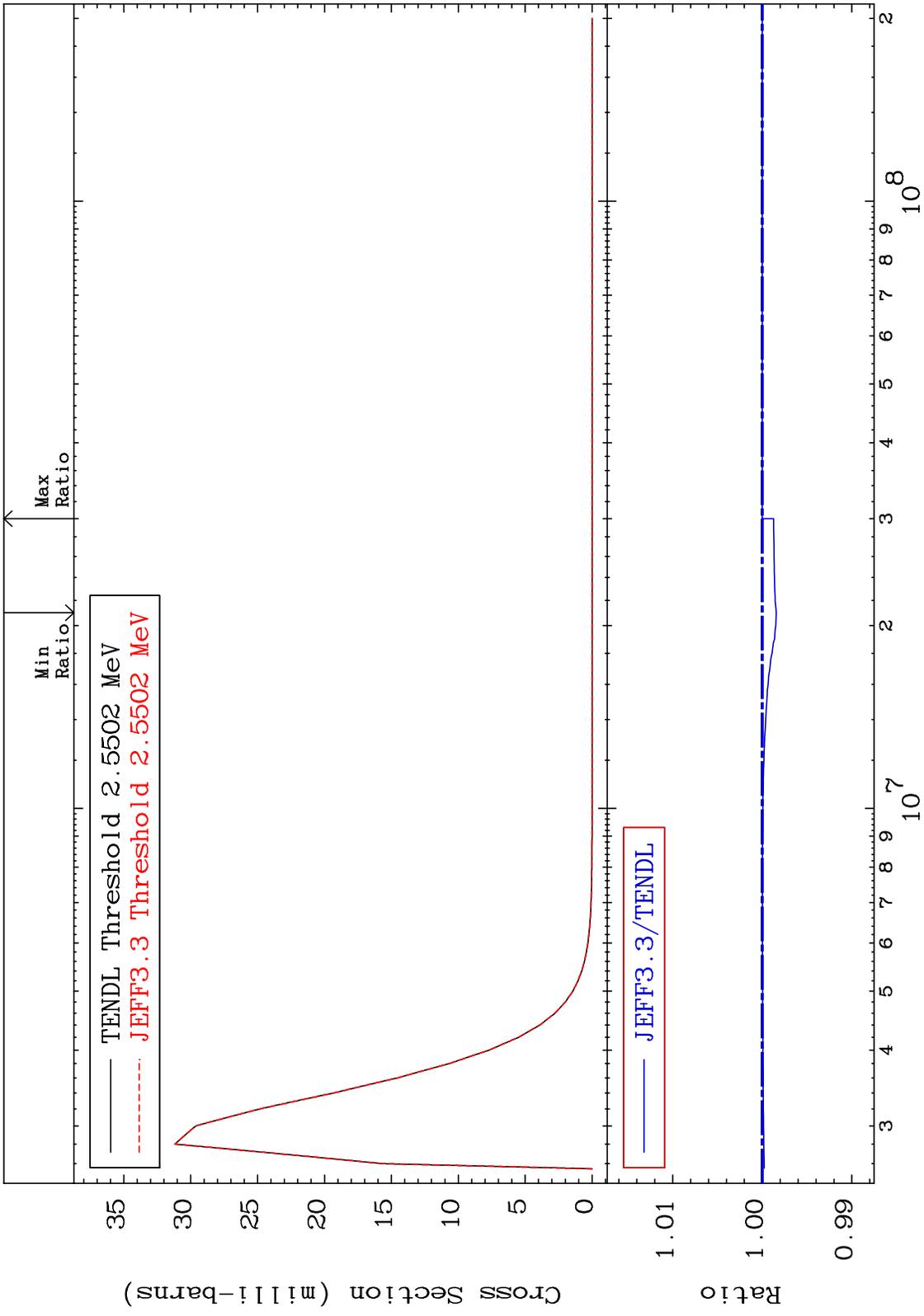
MAT 5237 MT= 77 (n,n') Level Cross Section 52-Te-124 -0.046 To 0.000 %



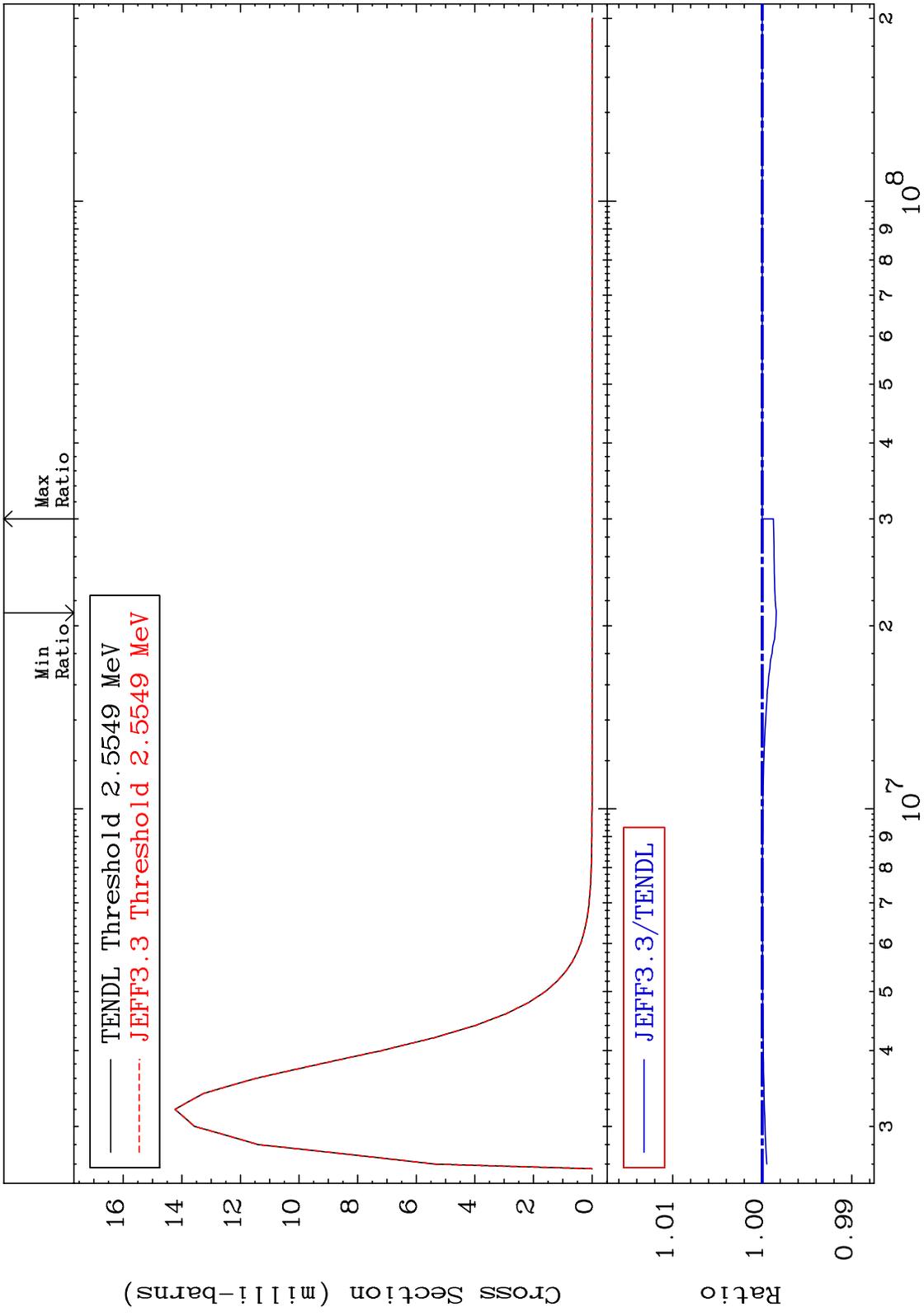
MAT 5237 MT= 78 (n,n') Level Cross Section 52-Te-124 -0.025 To 0.000 %



MAT 5237 MT= 79 (n,n') Level Cross Section 52-Te-124 -0.157 To 0.000 %

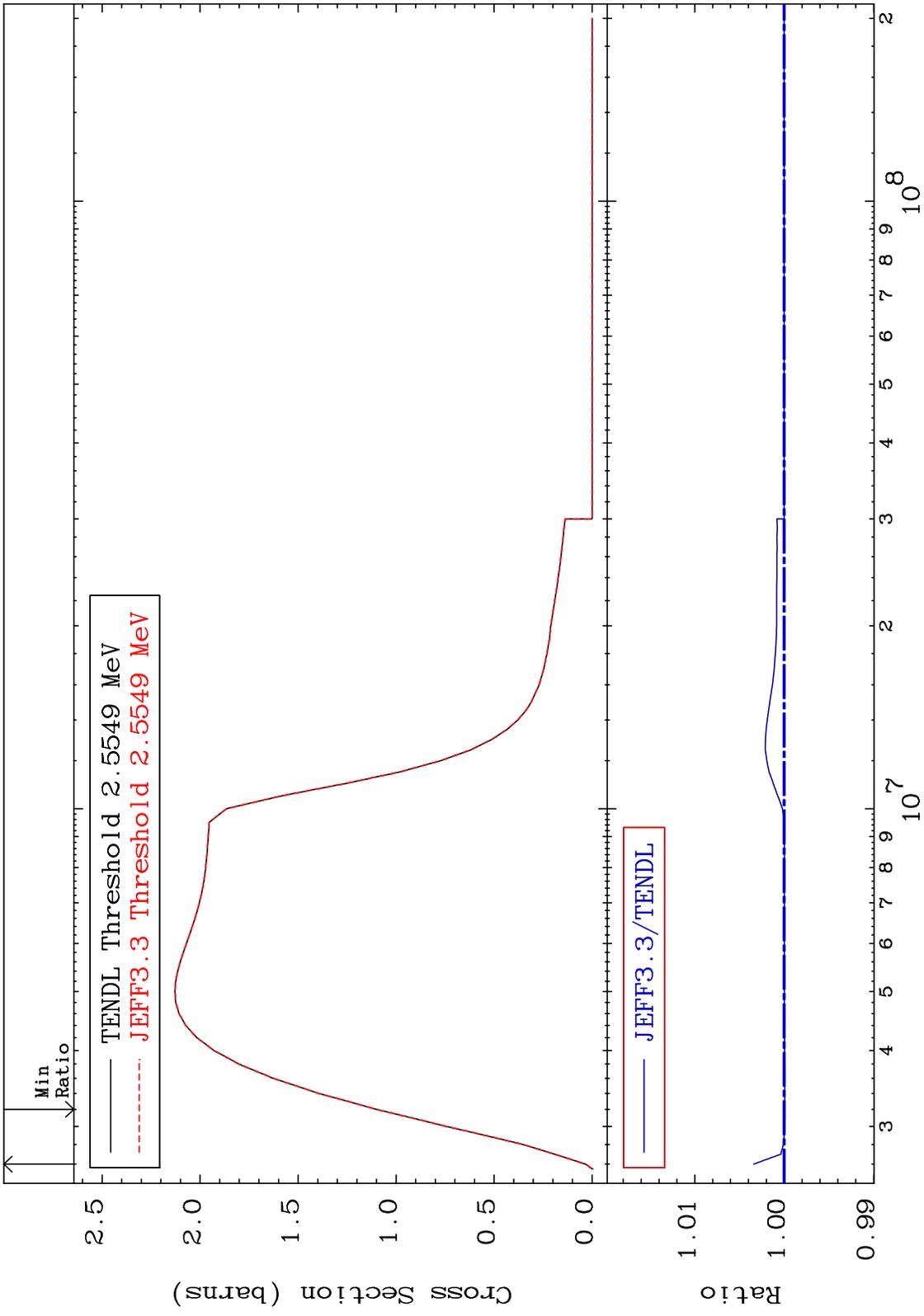


MAT 5237 MT= 80 (n,n') Level Cross Section 52-Te-124 -0.157 To 0.000 %



48 Incident Energy (eV) 52-Te-124

MAT 5237 (n,n') Continuum Cross Section 52-Te-124 -0.007 To 0.341 %



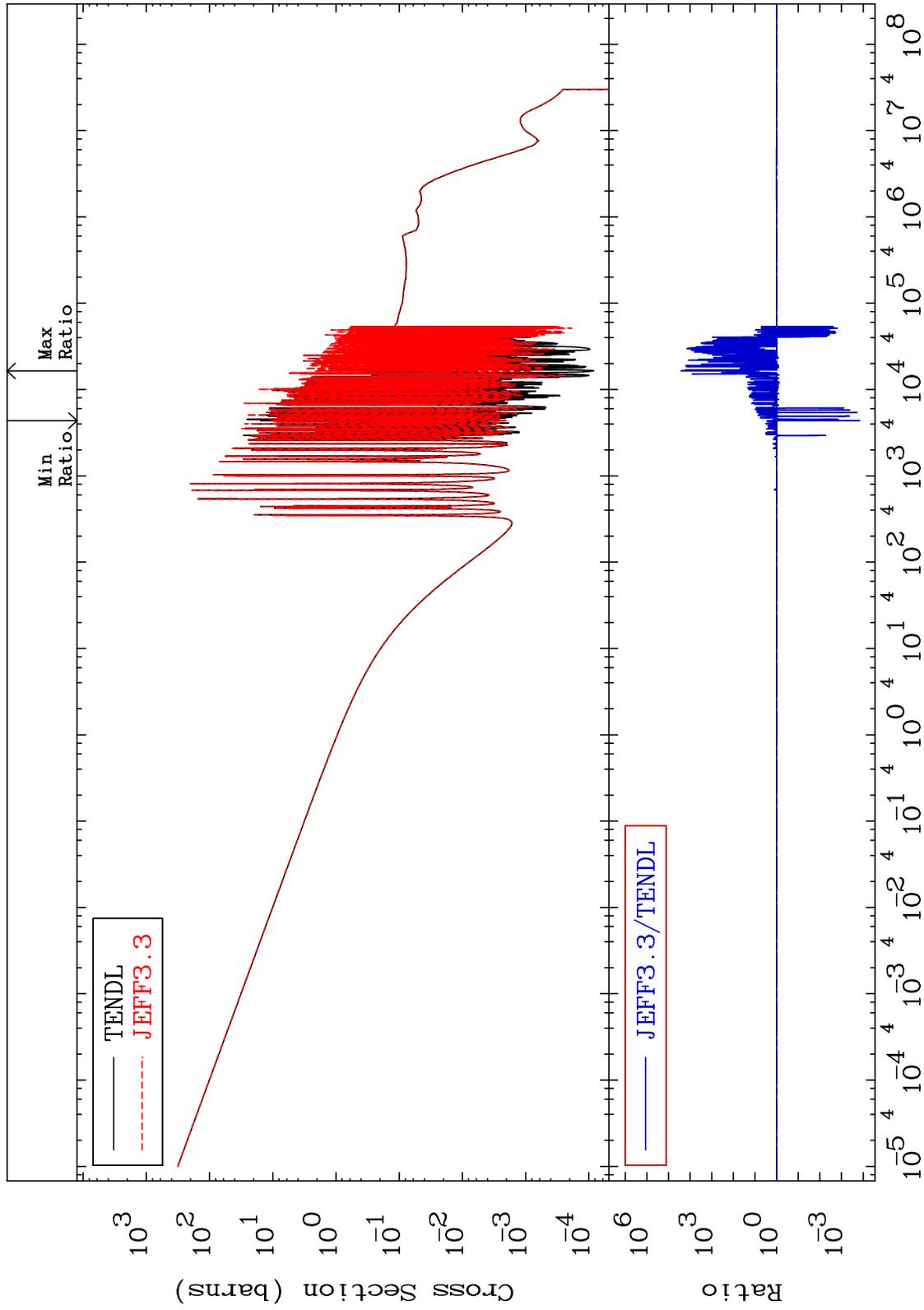
MAT 5237

(n, γ)

52-Te-124

Cross Section

-99.99 To 9999. %

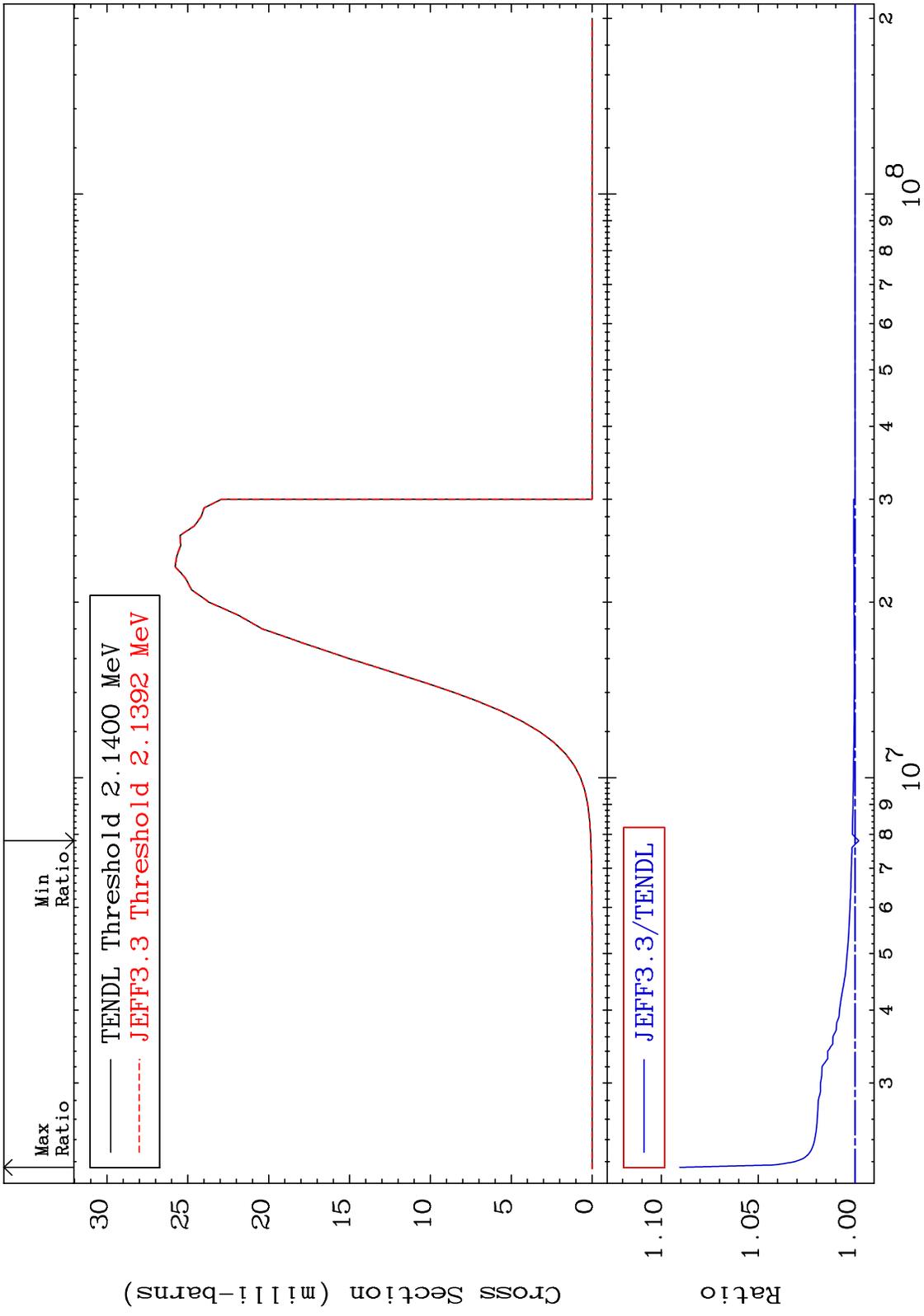


50

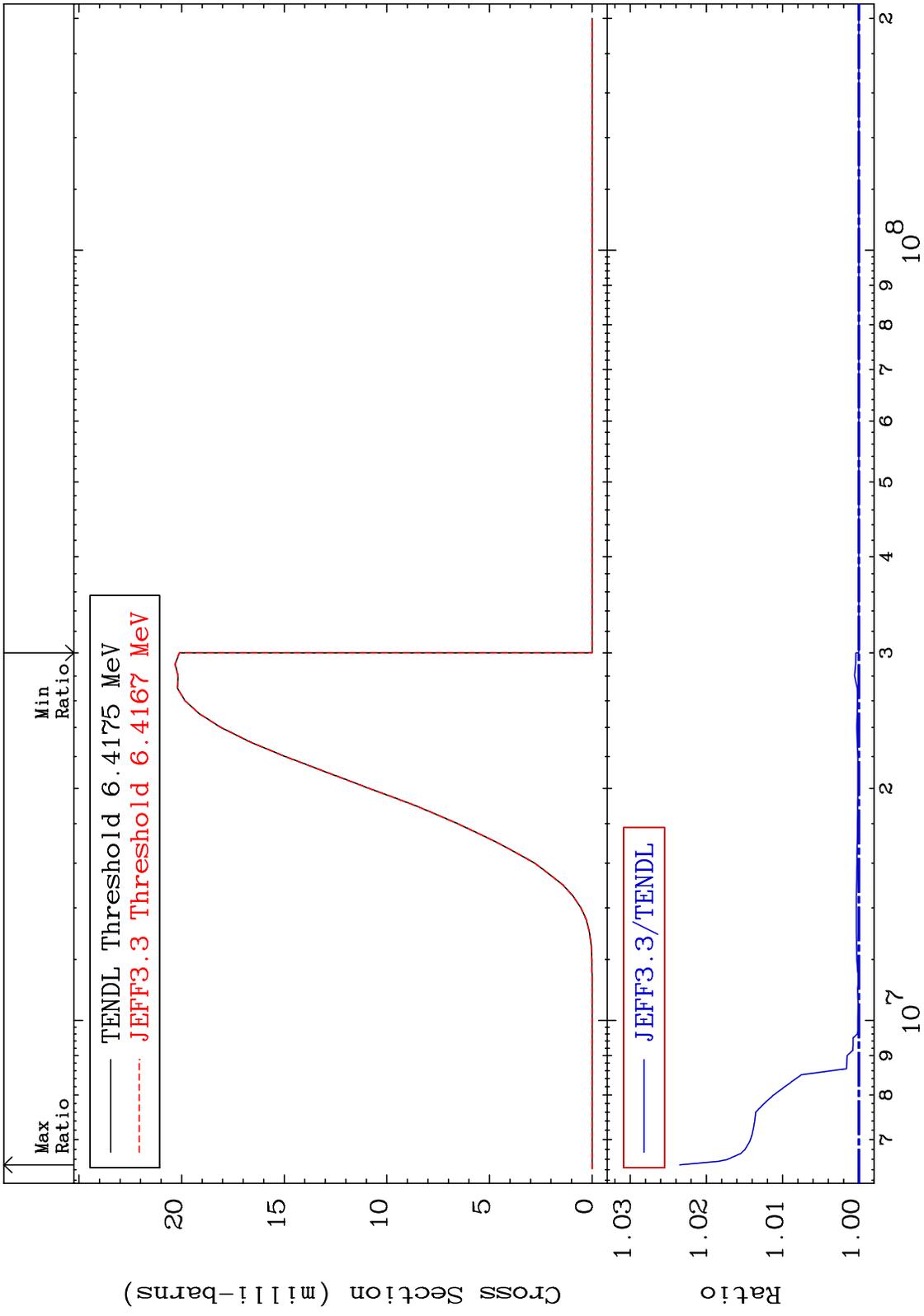
Incident Energy (eV)

52-Te-124

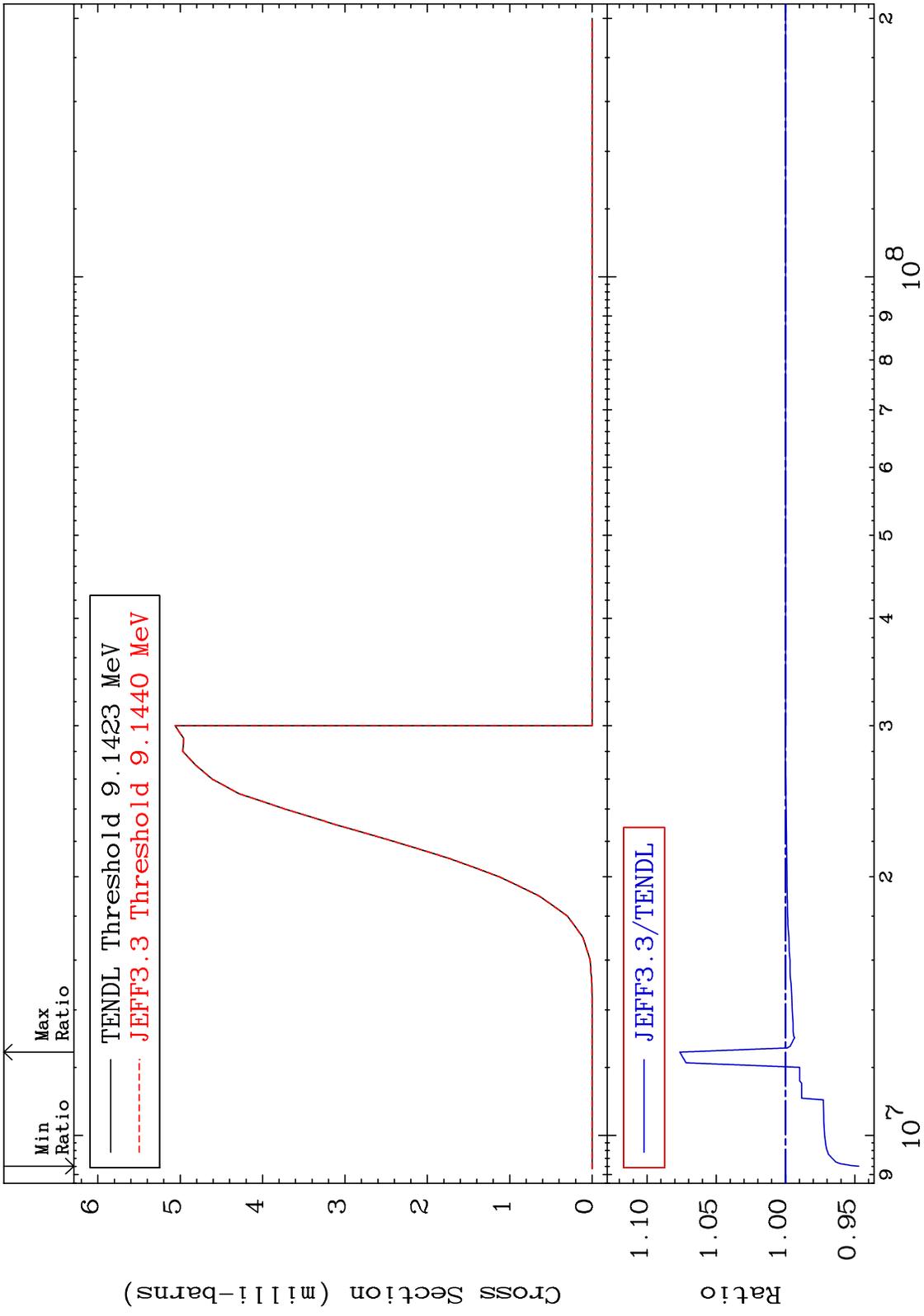
MAT 5237 (n,p) Cross Section 52-Te-124 -0.192 To 9.051 %



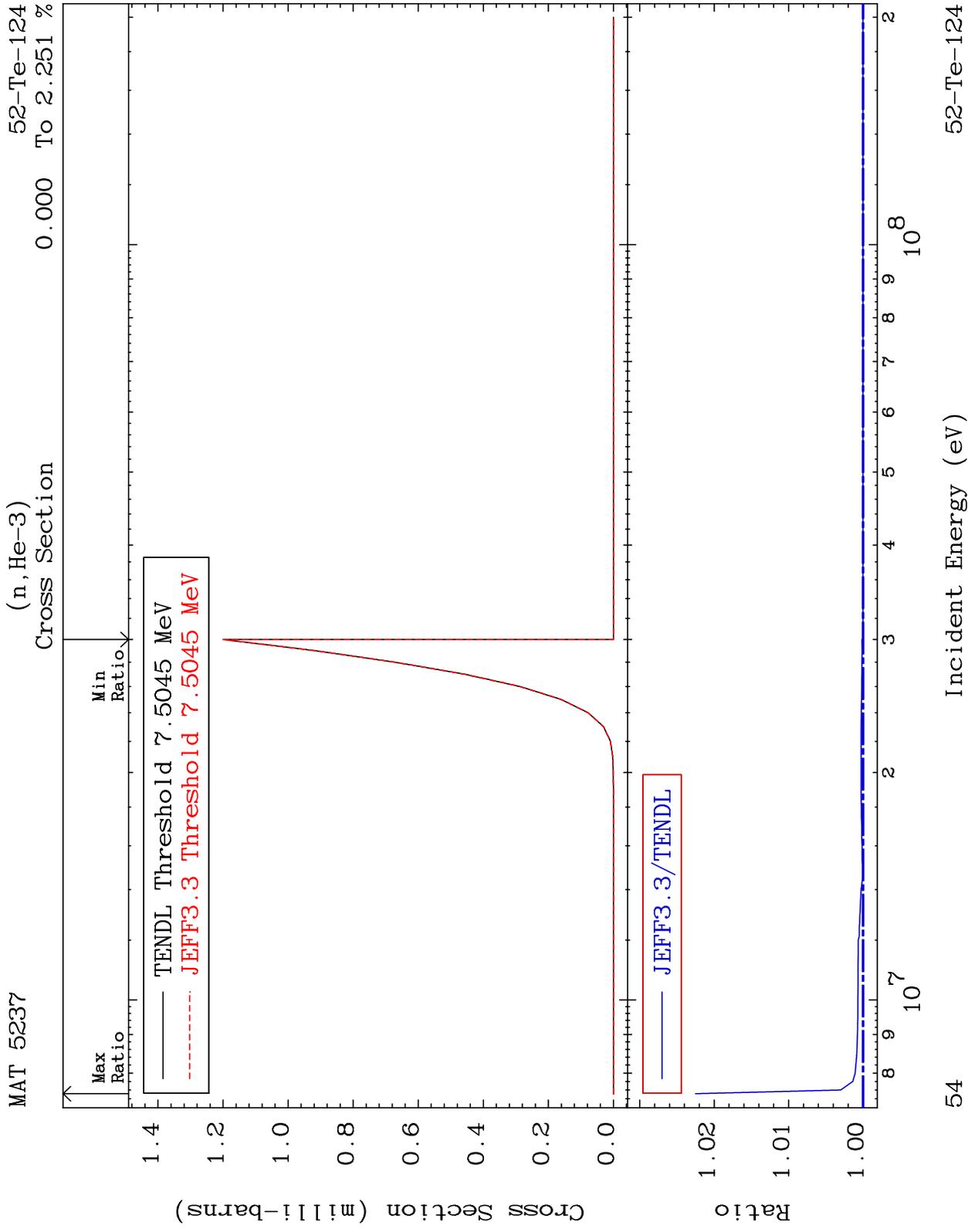
MAT 5237 (n,d) Cross Section 52-Te-124 To 2.350 %



MAT 5237 (n,t) 52-Te-124
 Cross Section -5.288 To 7.640 %



53 Incident Energy (eV) 52-Te-124



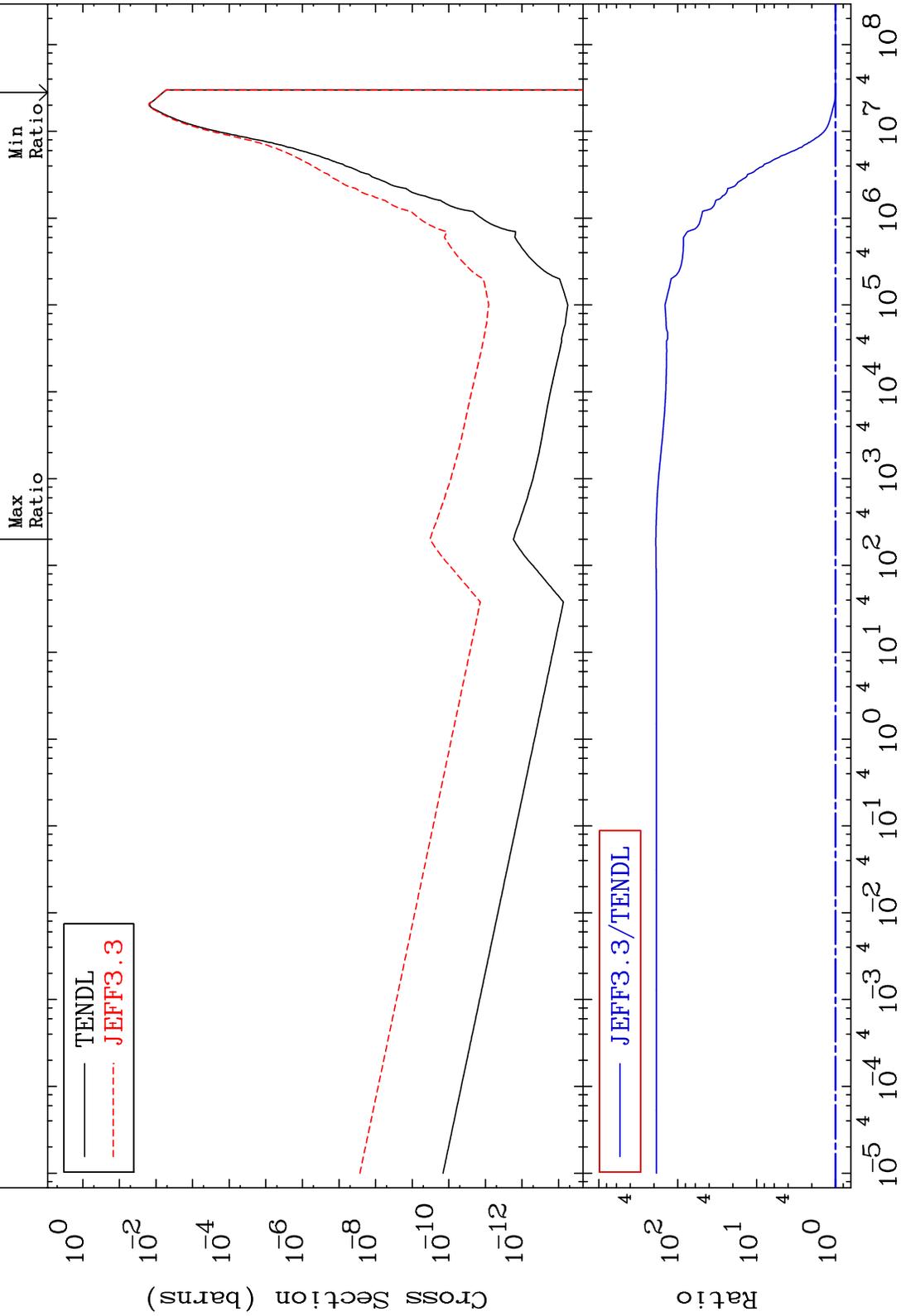
MAT 5237

(n, α)

52-Te-124

-0.206 To 9999. %

Cross Section



MAT 5237

(n,2α)

52-Te-124

-73.93 To 9999. %

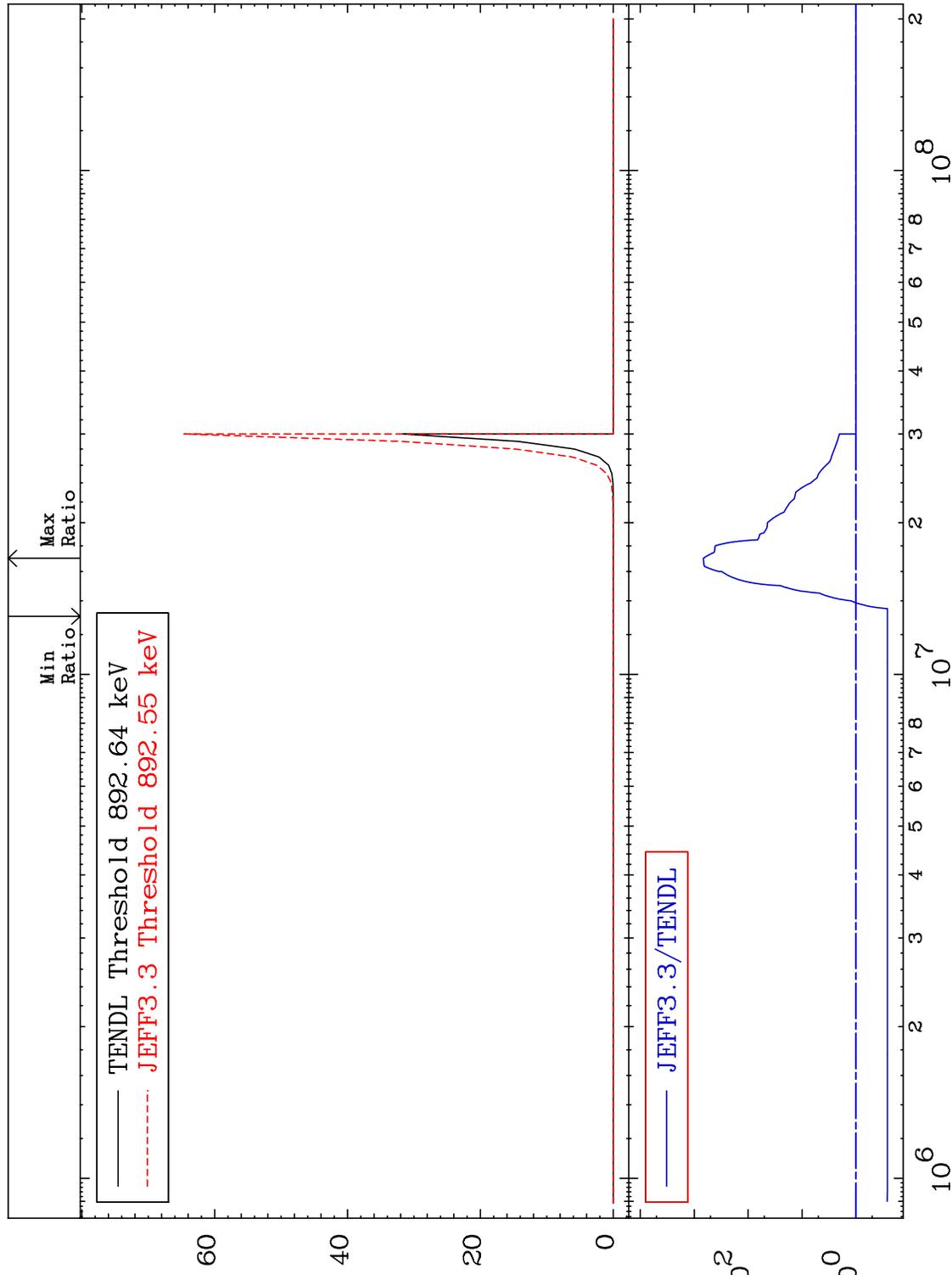
Cross Section

Min Ratio

Max Ratio

TENDL Threshold 892.64 keV
JEFF3.3 Threshold 892.55 keV

Cross Section (10^9 barns)

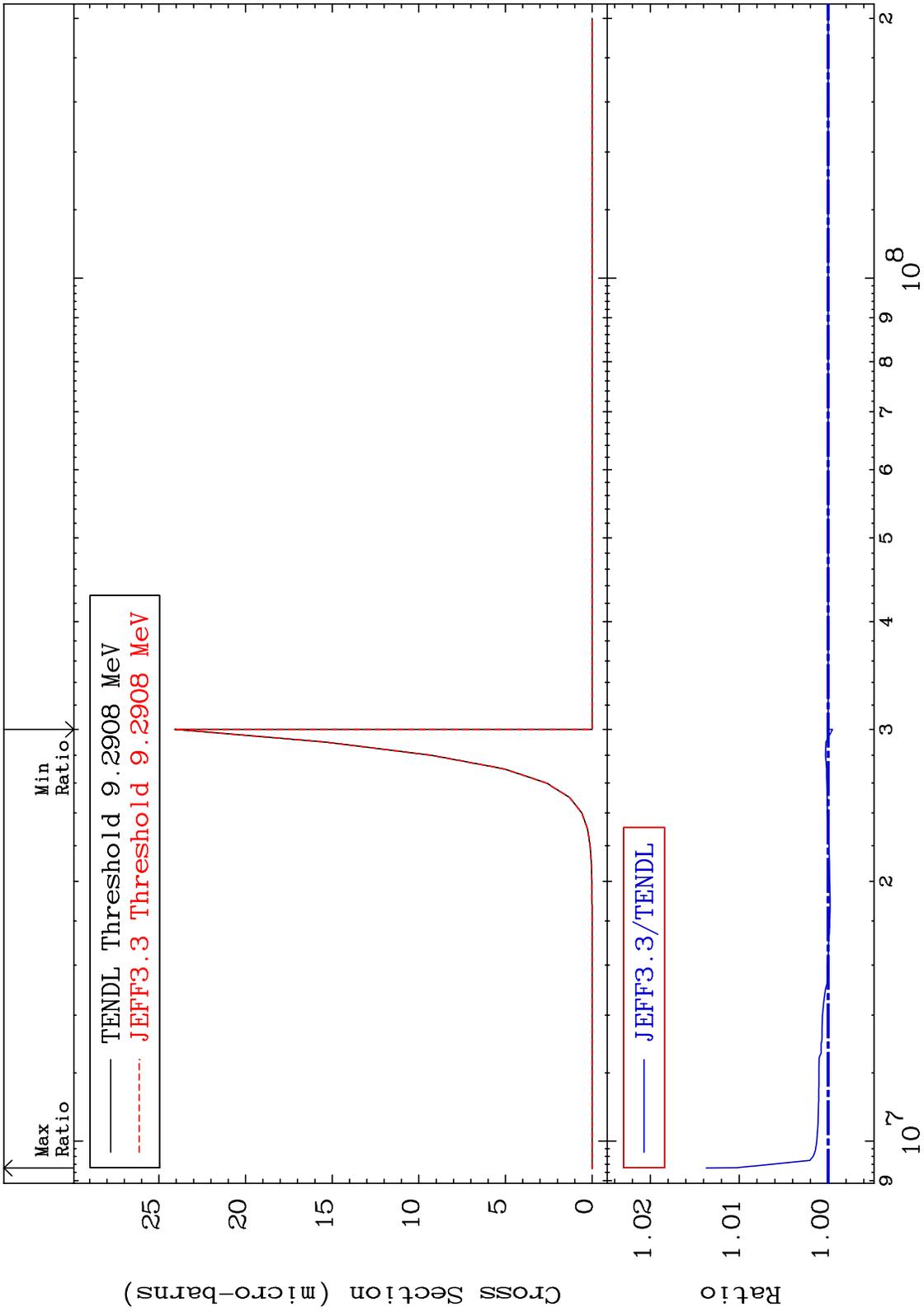


56

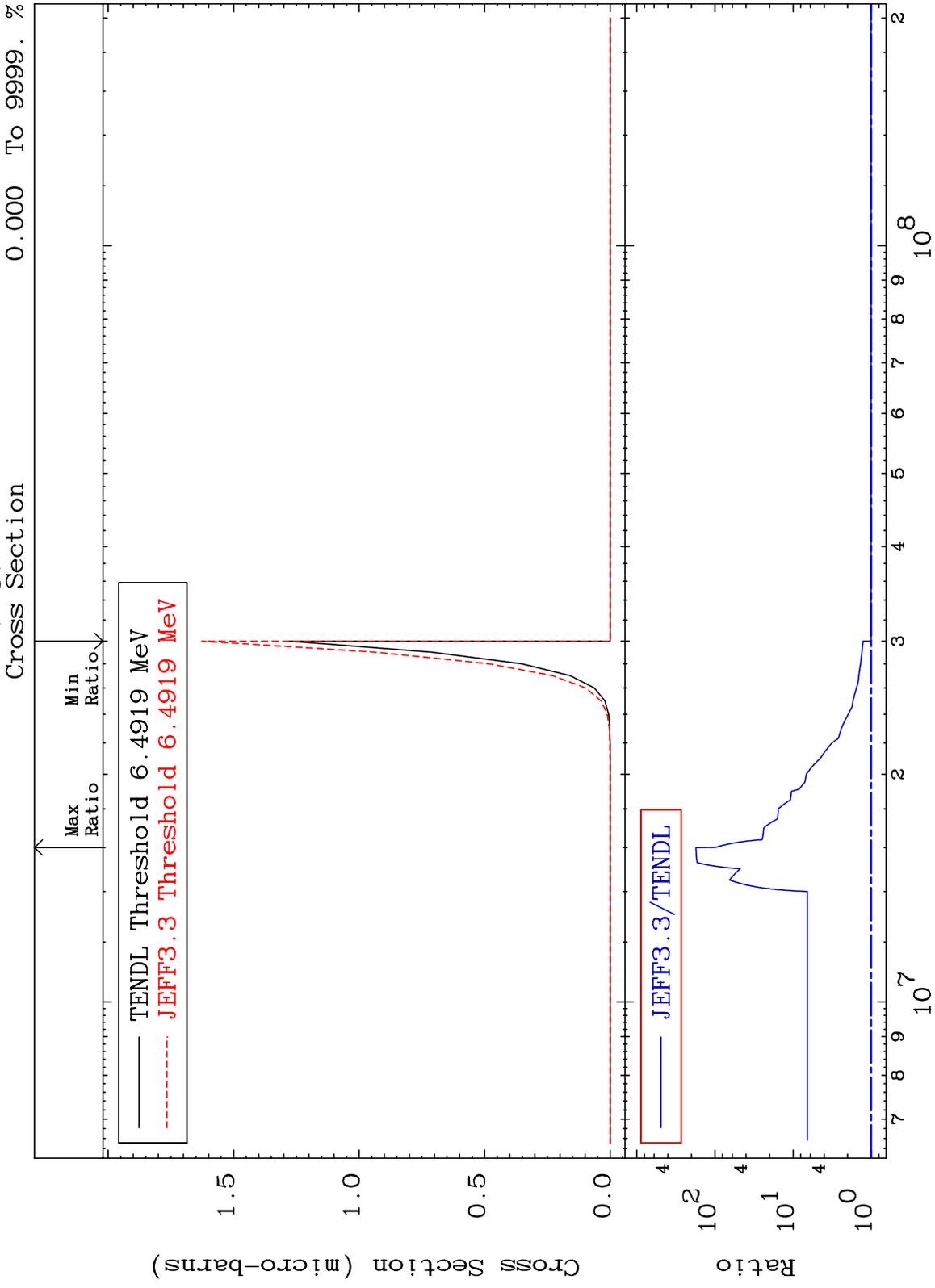
Incident Energy (eV)

52-Te-124

MAT 5237 (n,2p) Cross Section 52-Te-124 -0.049 To 1.373 %



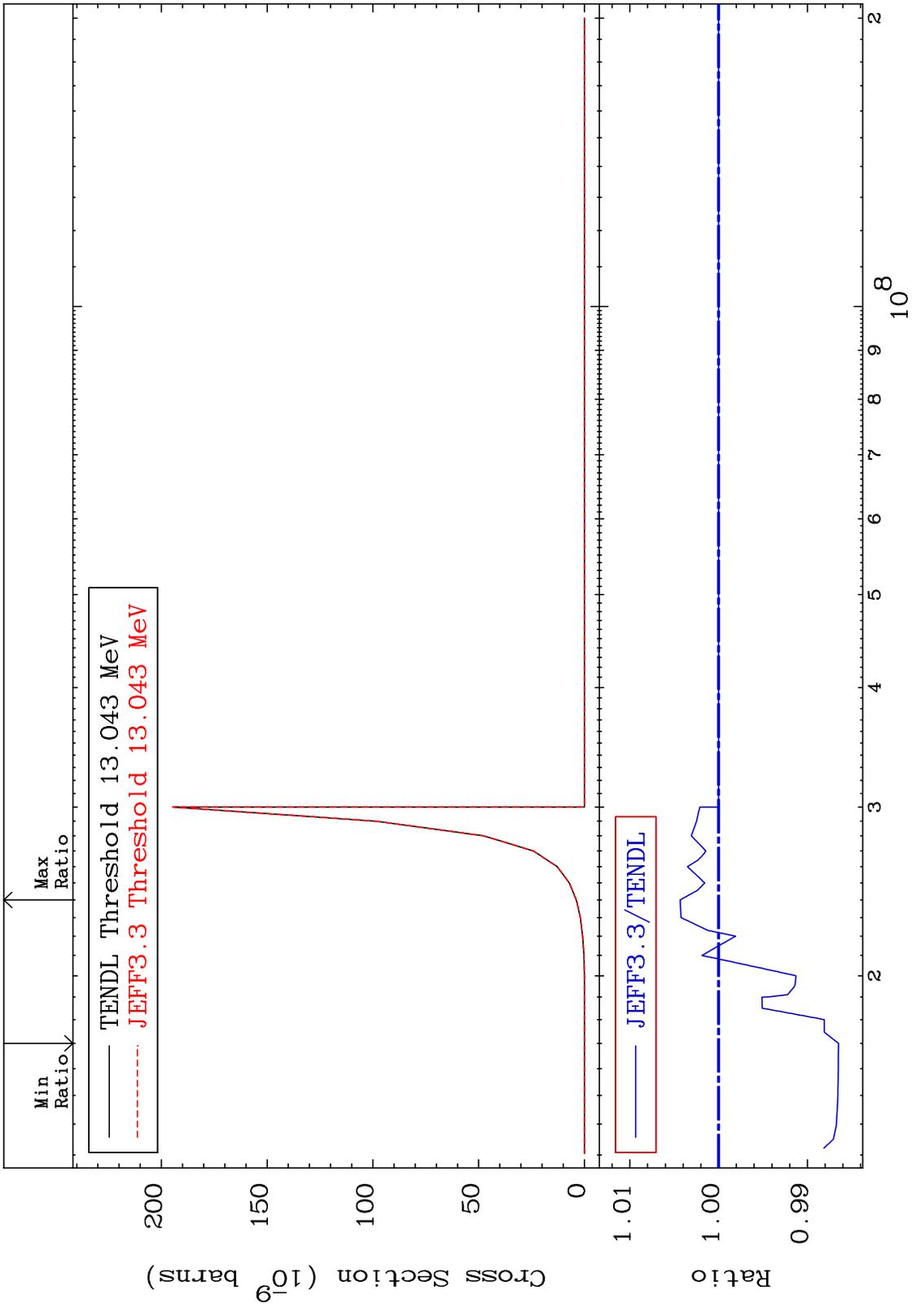
MAT 5237 (n,p) α 52-Te-124 To 9999. %



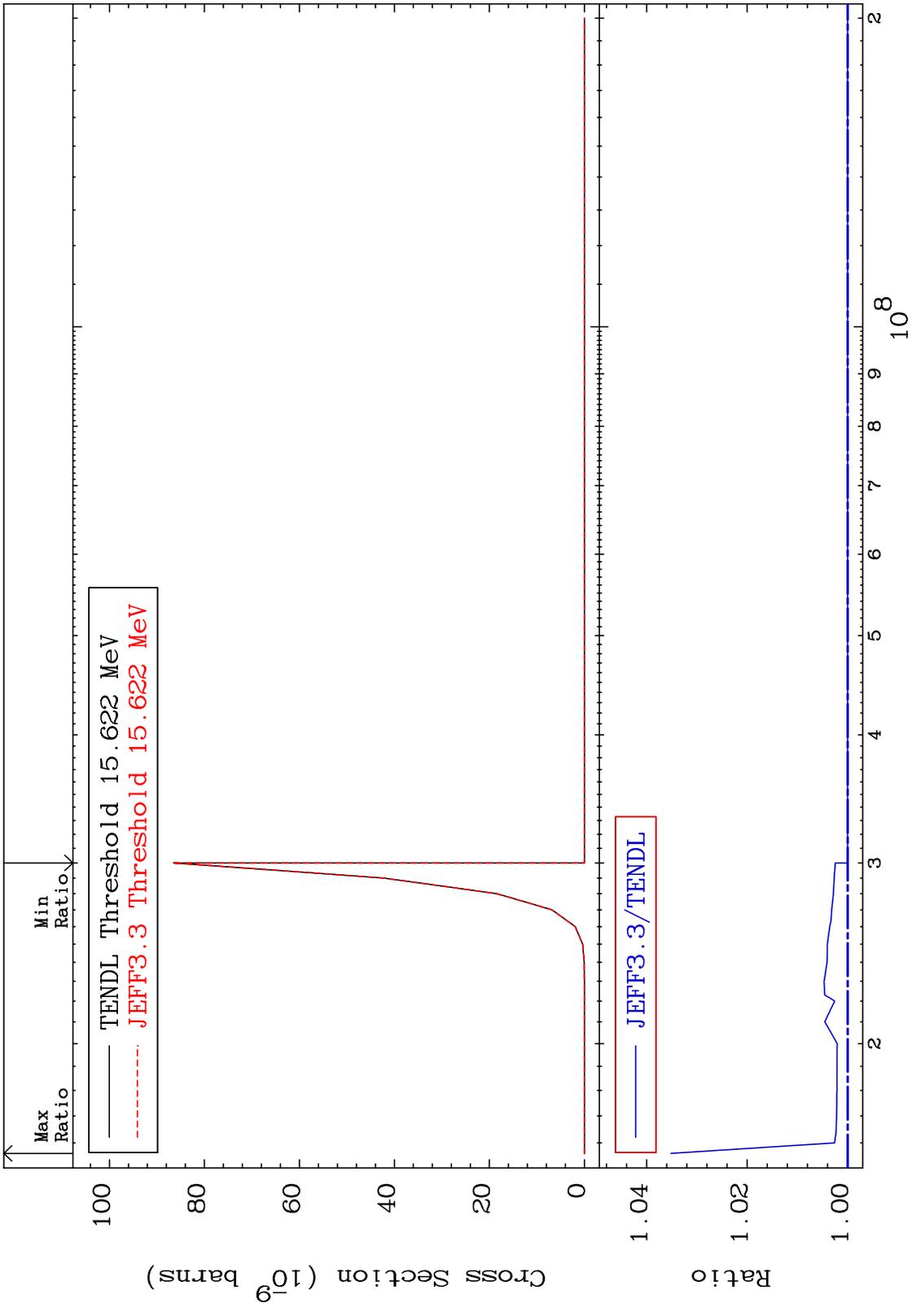
52-Te-124

Incident Energy (eV)

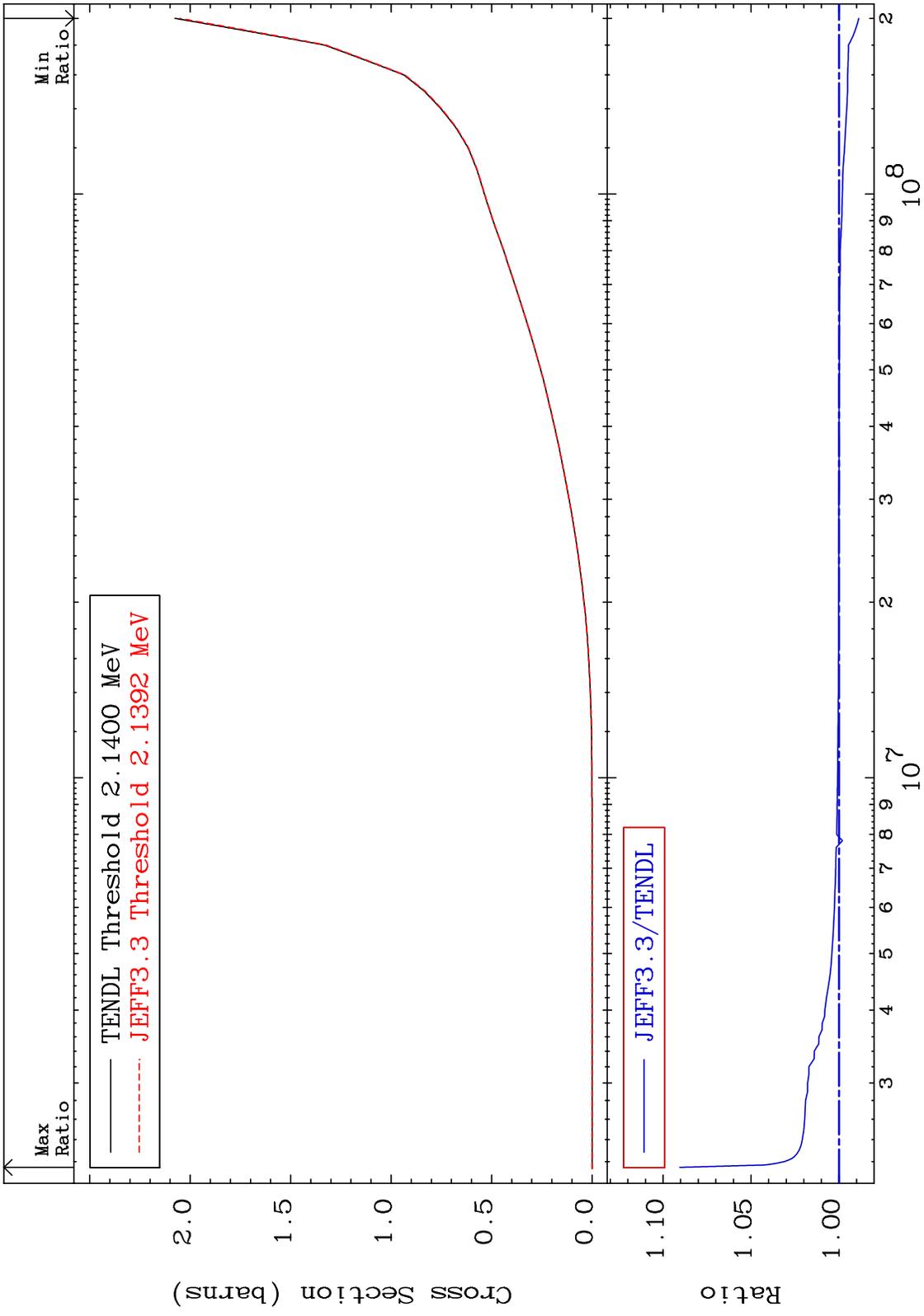
MAT 5237 (n,p) d 52-Te-124
 Cross Section -1.351 To 0.434 %



MAT 5237 (n,p) t 52-Te-124
Cross Section 0.000 To 3.518 %



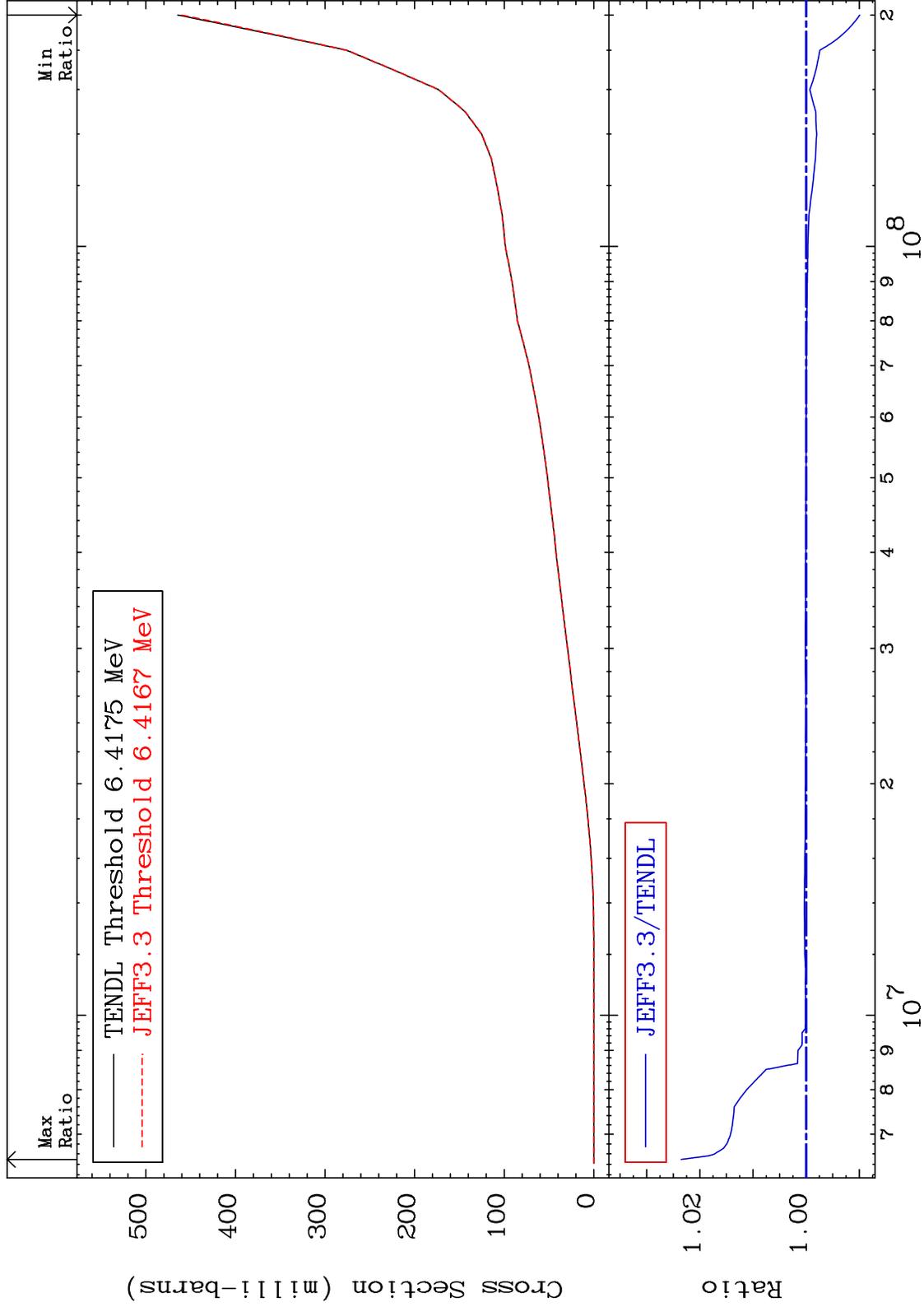
MAT 5237 Hydrogen Production Cross Section 52-Te-124 -1.124 To 9.051 %



MAT 5237

Deuterium Production
Cross Section

52-Te-124
-1.009 To 2.350 %



62

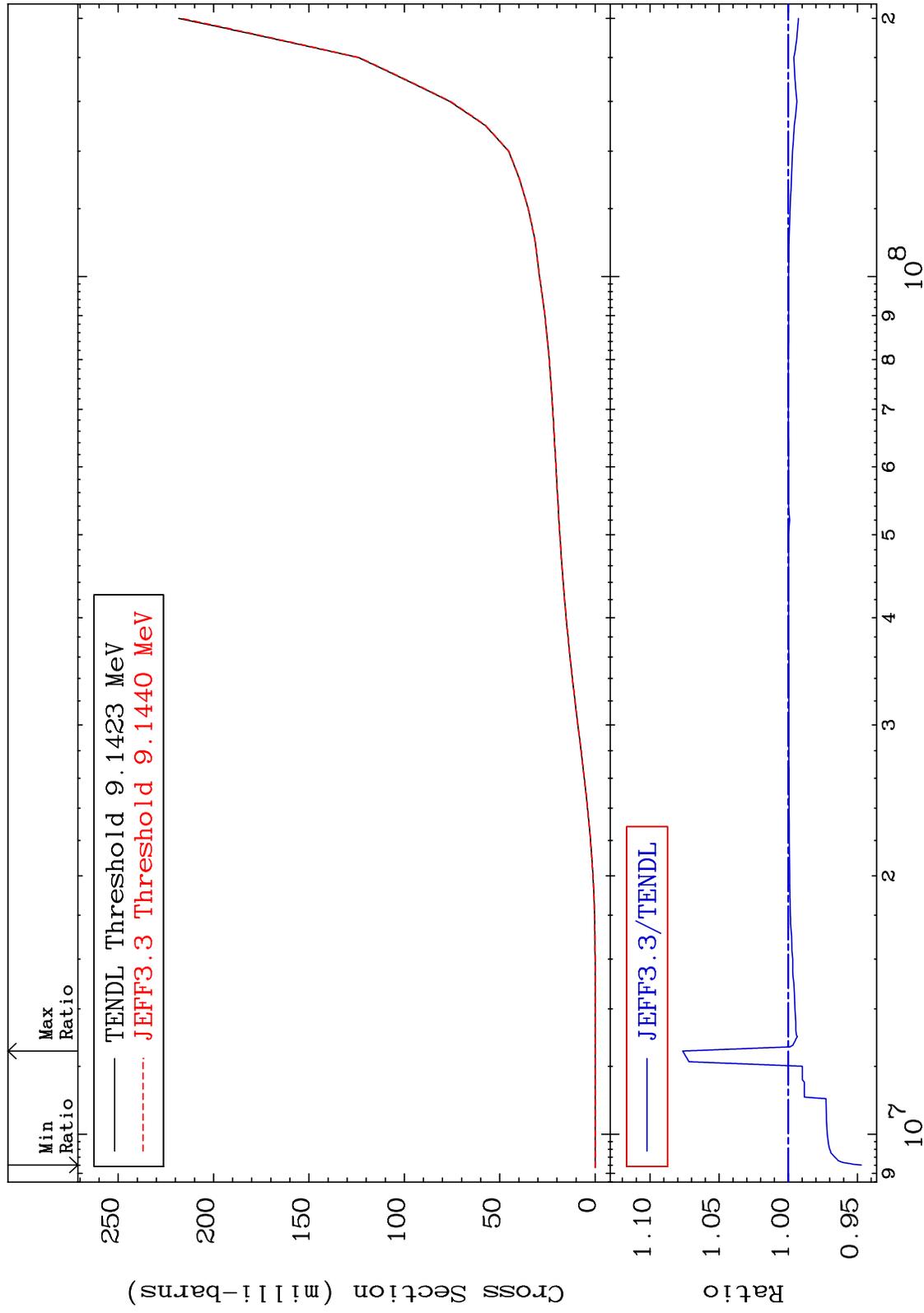
Incident Energy (eV)

52-Te-124

MAT 5237

Tritium Production
Cross Section

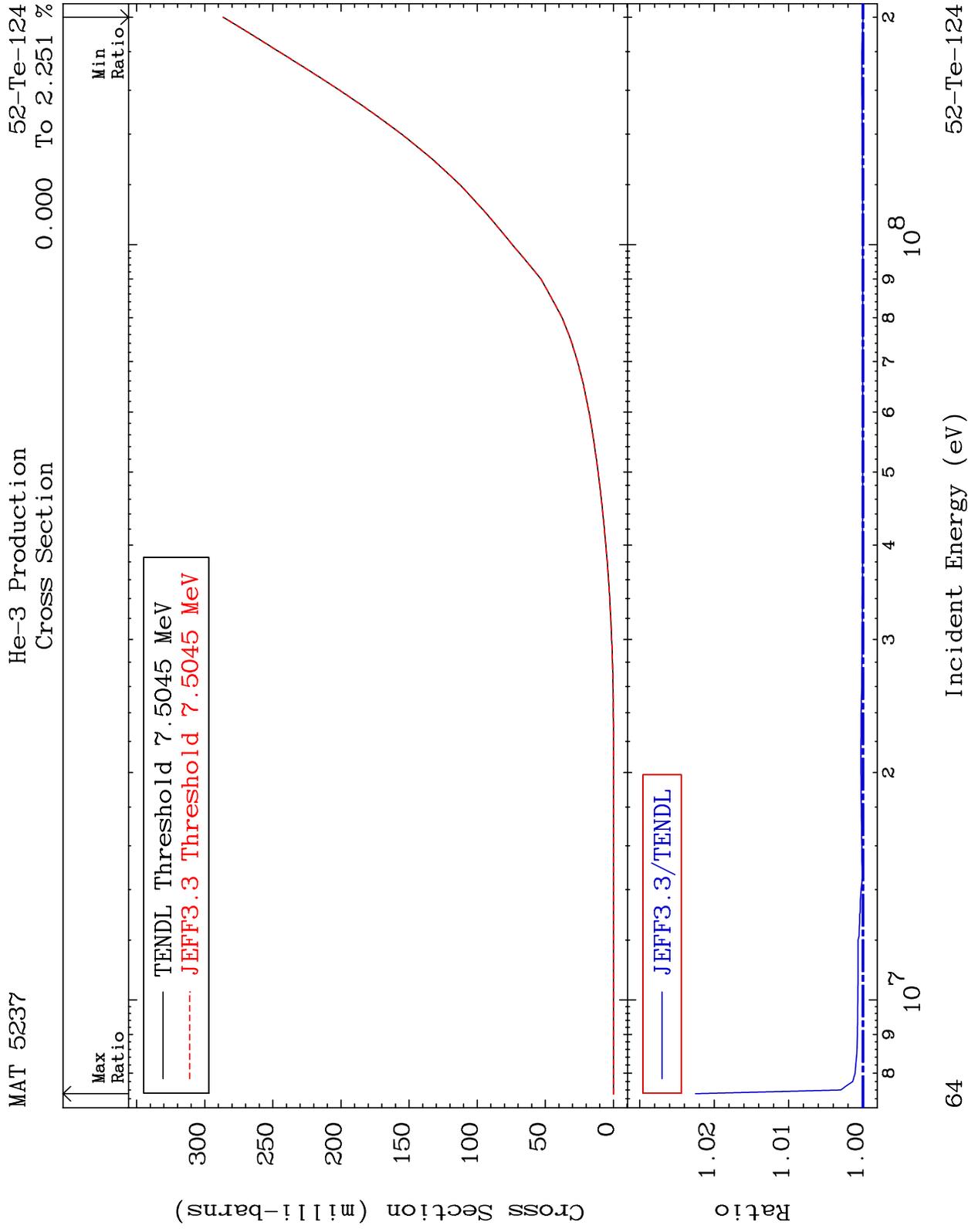
52-Te-124
-5.288 To 7.640 %



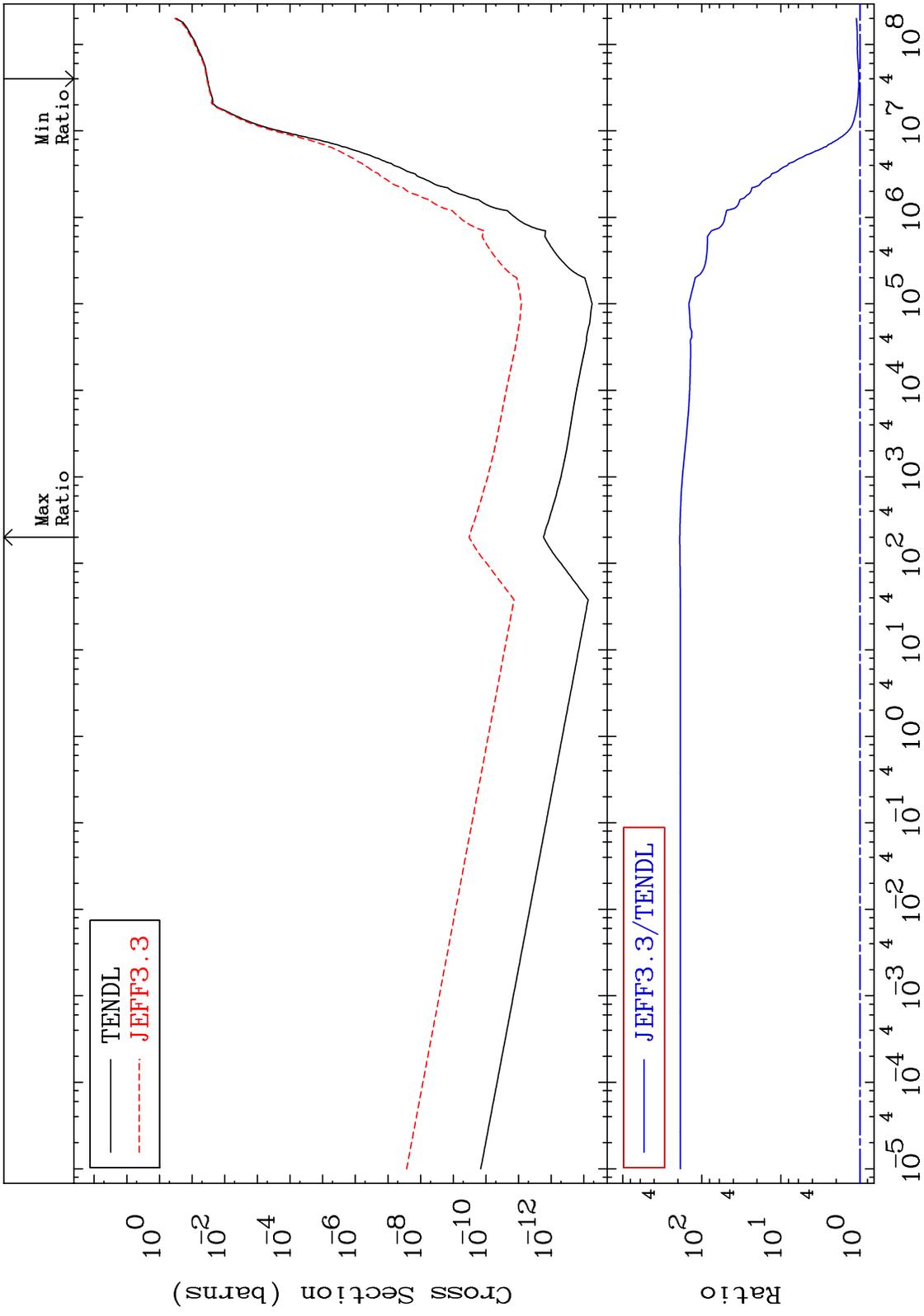
63

Incident Energy (eV)

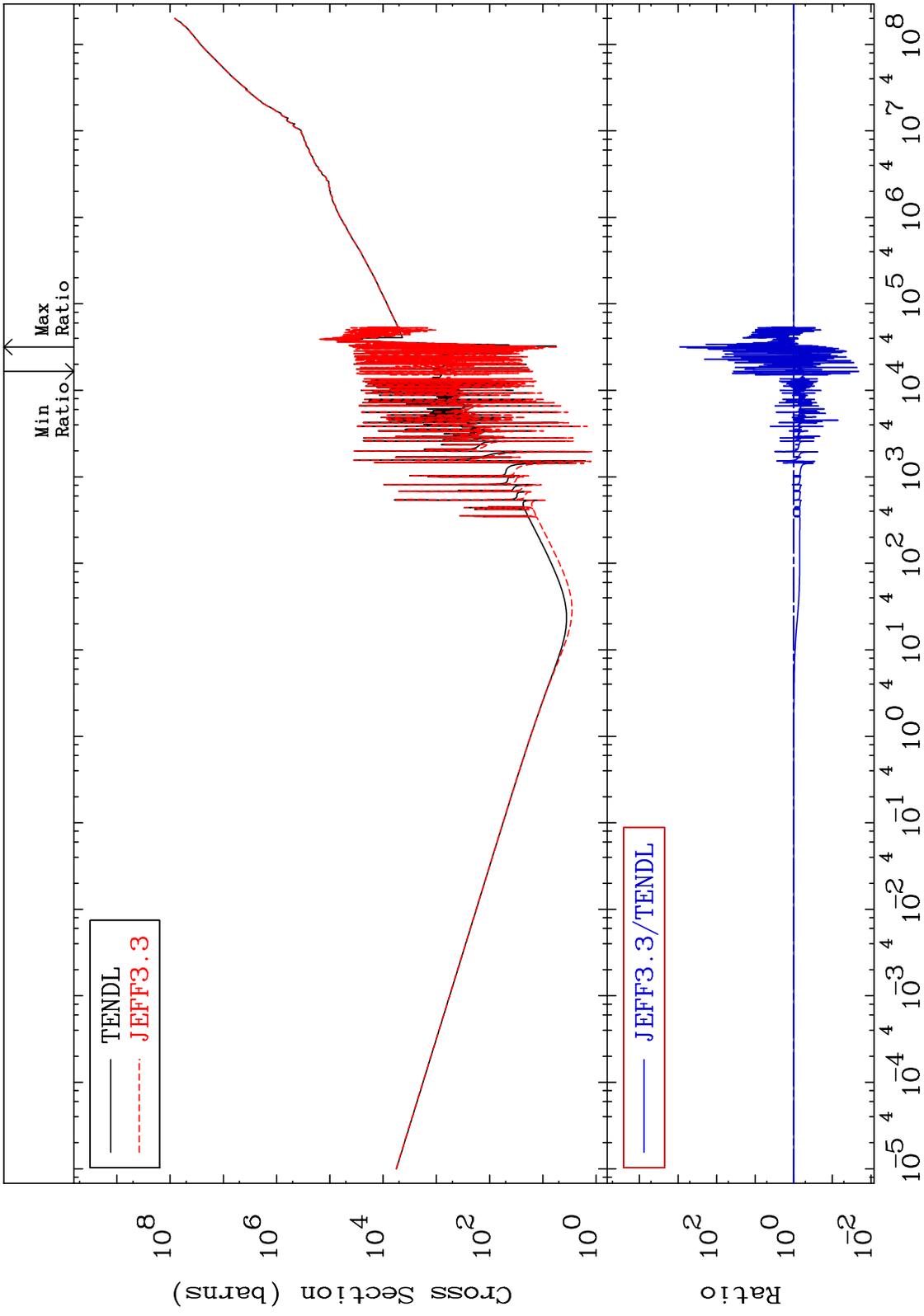
52-Te-124



MAT 5237 He-4 Production Cross Section 52-Te-124
 3.299 To 9999. %



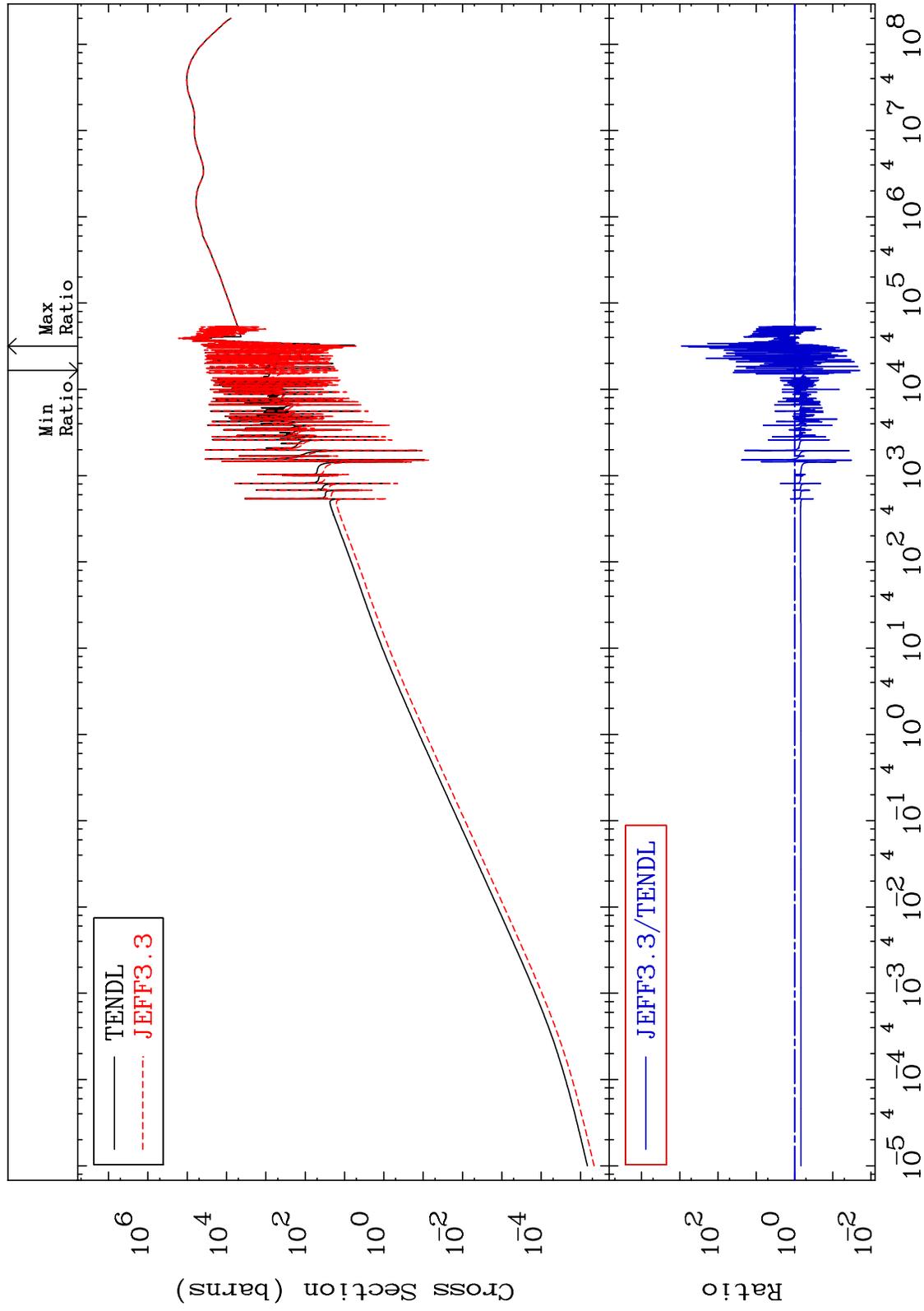
MAT 5237 Kerma total (eV-barns) 52-Te-124
 Cross Section -97.94 To 9999. %



MAT 5237

Kerma elastic
Cross Section

52-Te-124
-98.04 To 9999. %



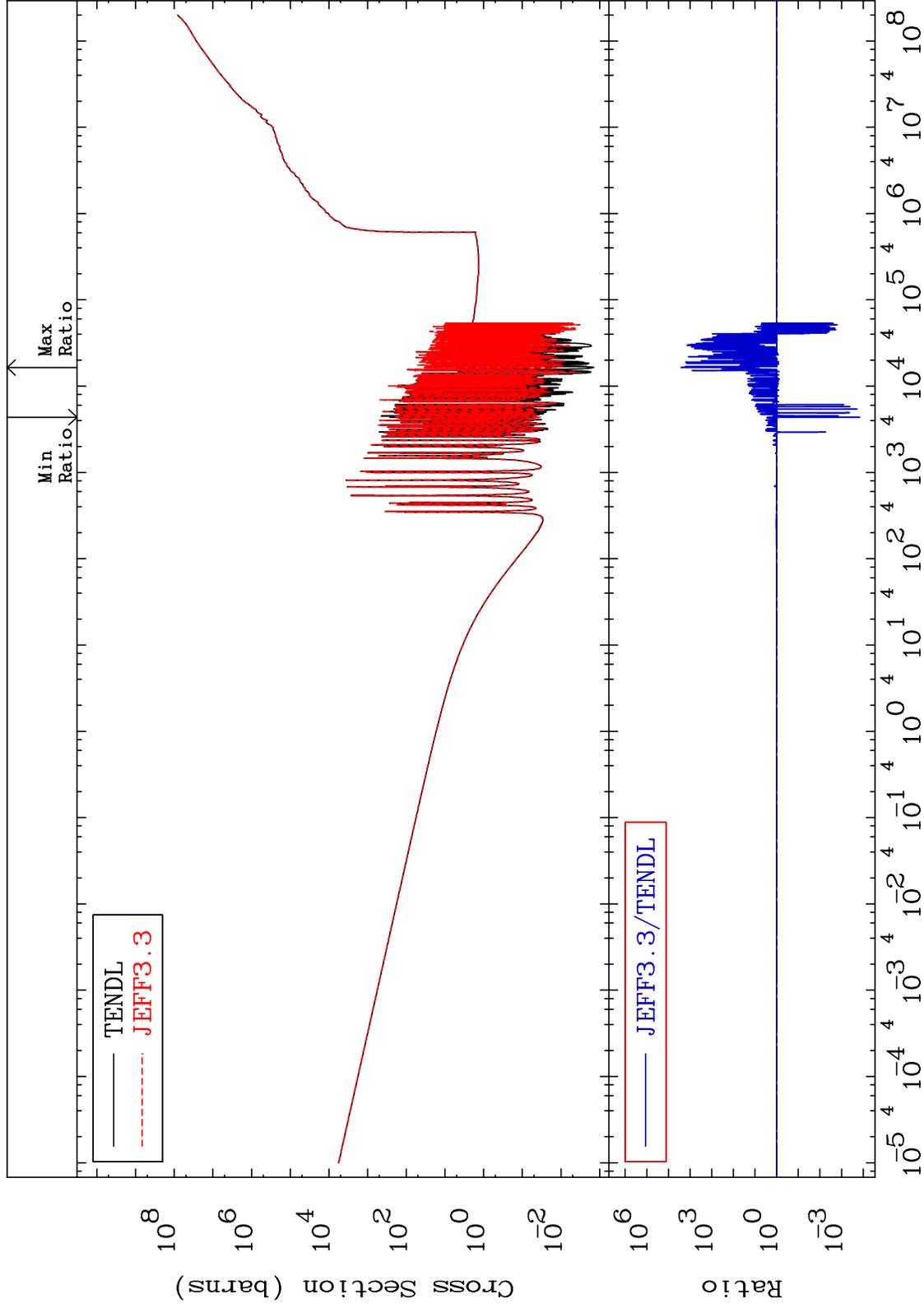
MAT 5237

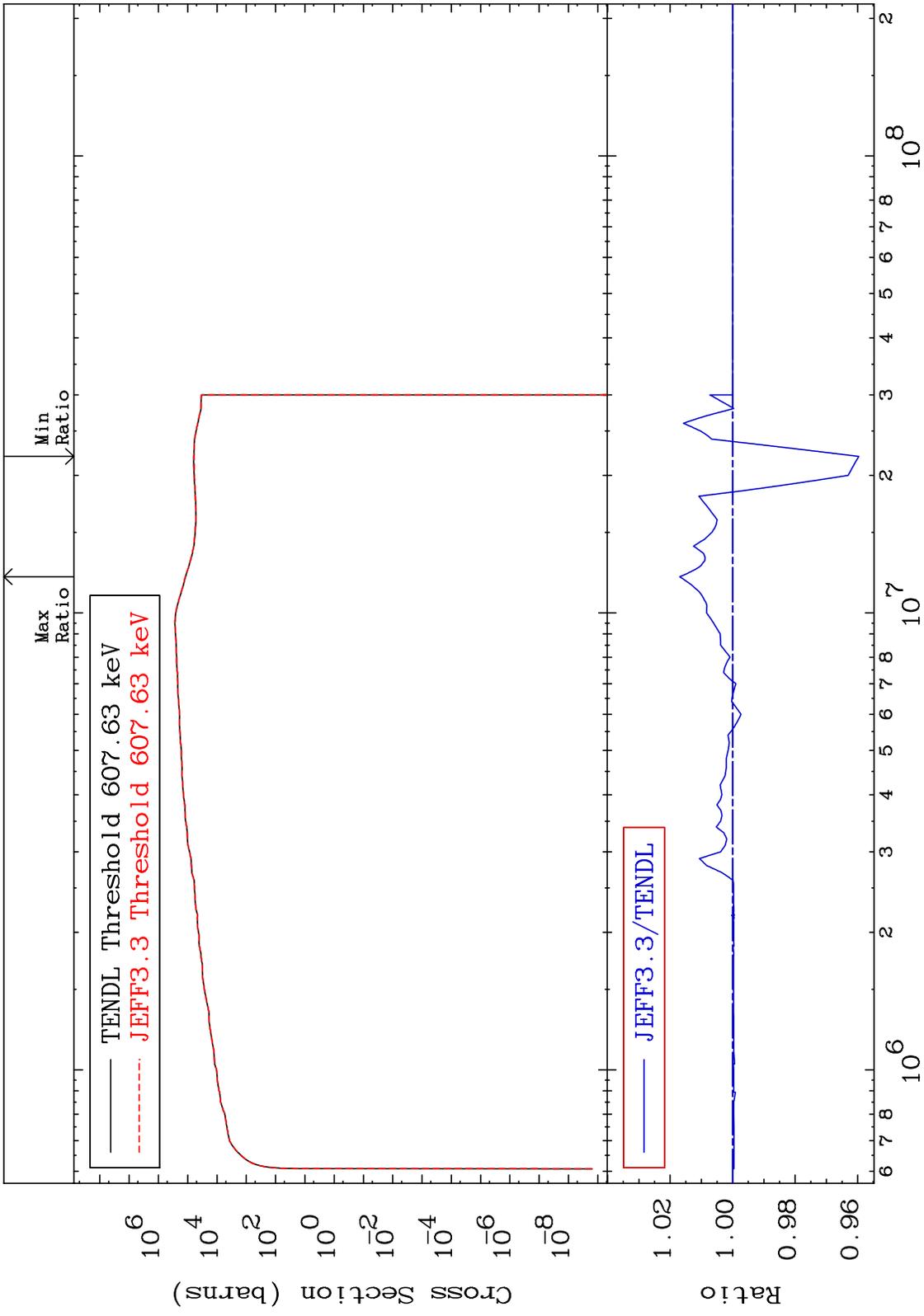
Kerma non-elastic (all but mt2)

52-Te-124

-99.99 To 9999. %

Cross Section

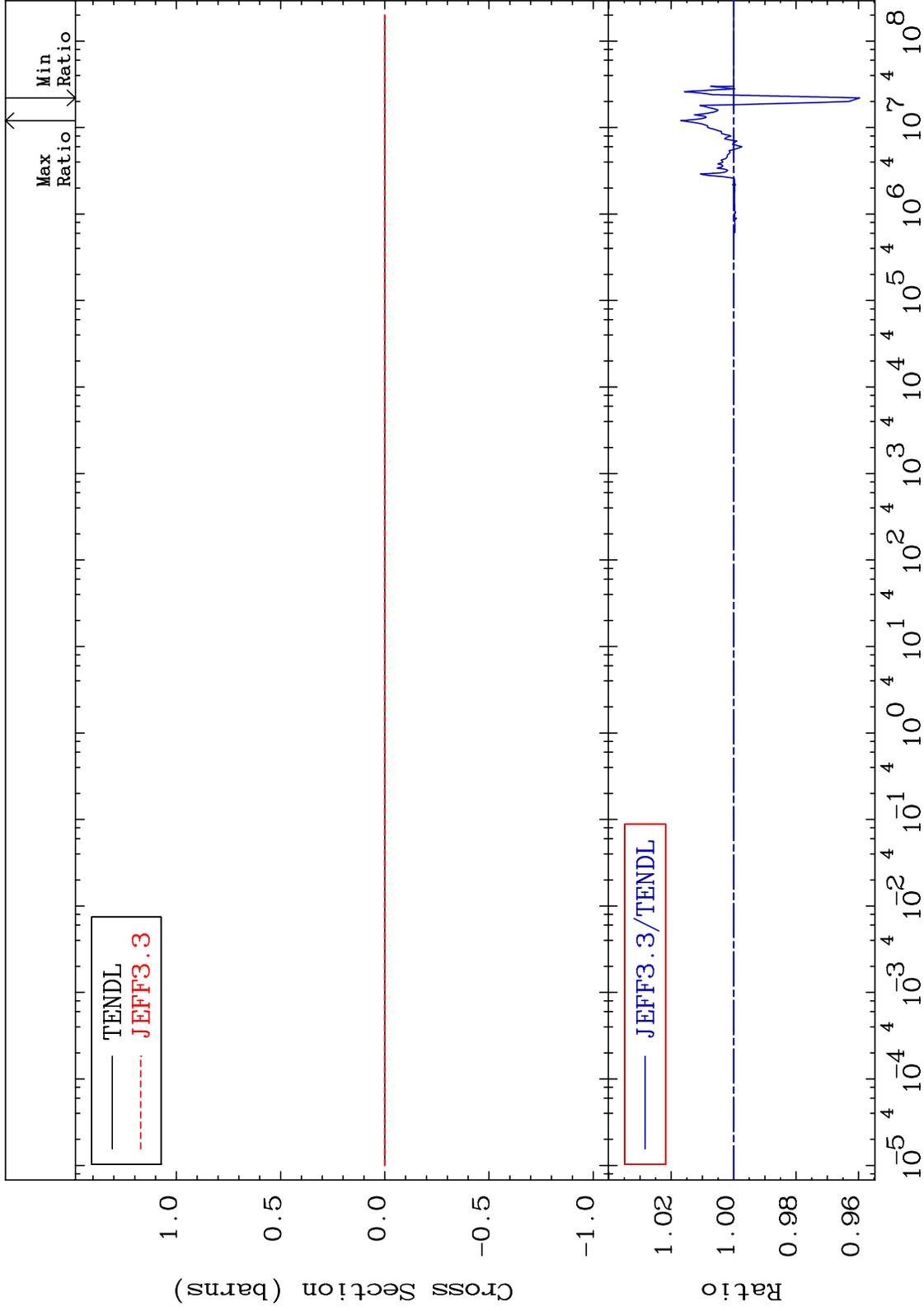




MAT 5237

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

52-Te-124
-4.036 To 1.693 %



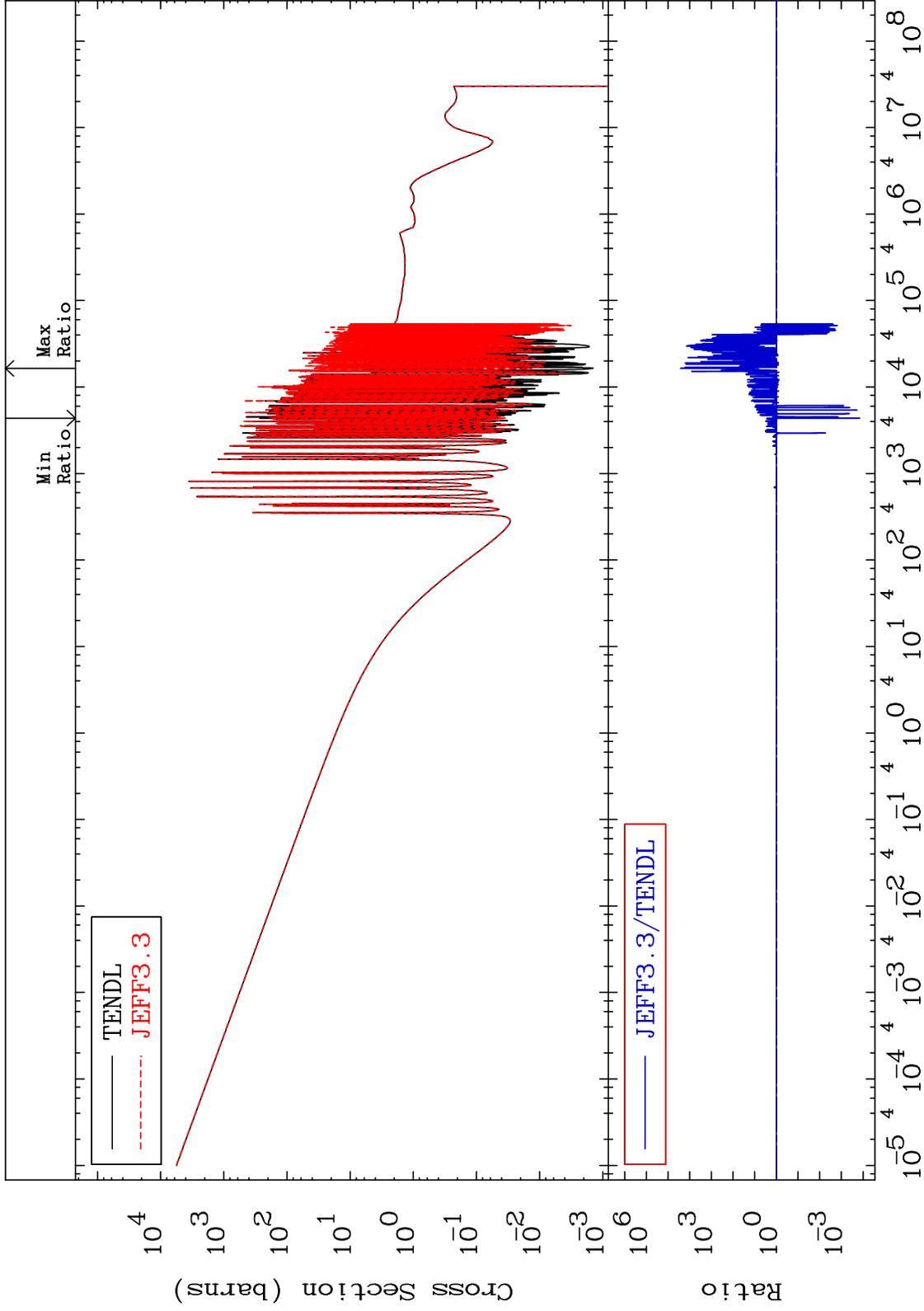
70

52-Te-124

MAT 5237

Kerma capture (mt102)
Cross Section

52-Te-124
-99.99 To 9999. %



71

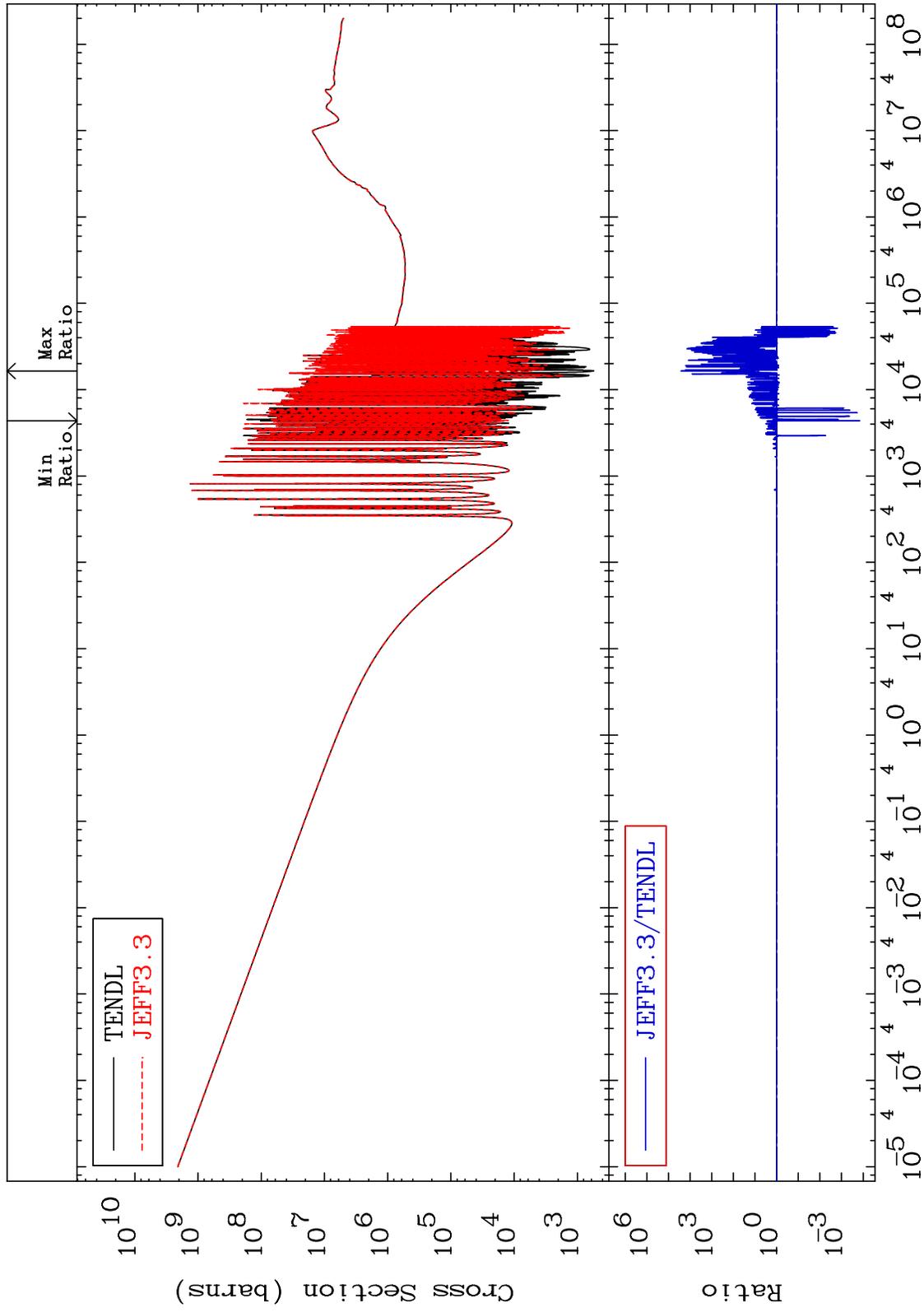
Incident Energy (eV)

52-Te-124

MAT 5237

Total photon (eV-barns)
Cross Section

52-Te-124
-99.99 To 9999. %

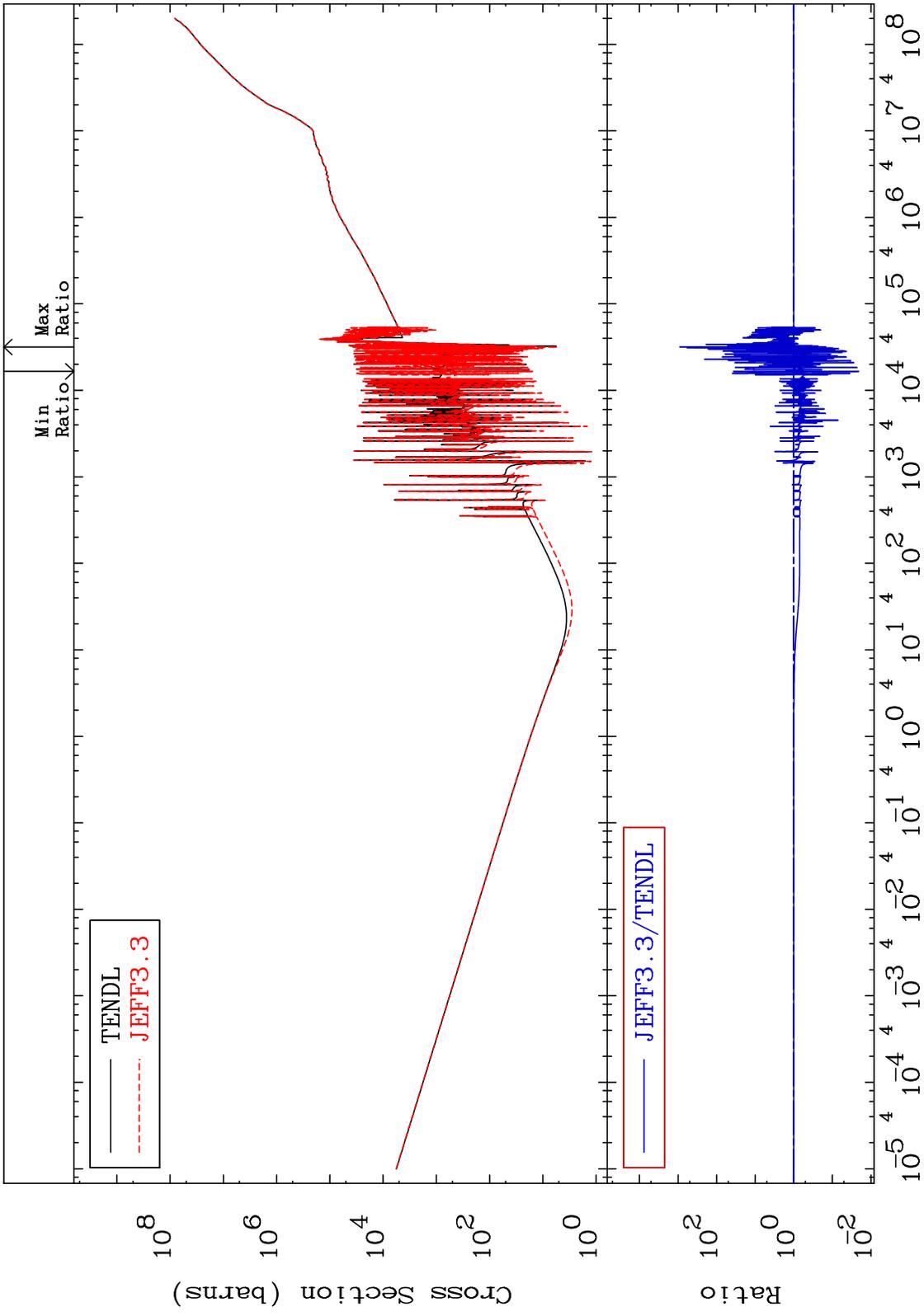


72

Incident Energy (eV)

52-Te-124

MAT 5237 Total kinematic kerma (high limit) 52-Te-124
Cross Section -97.94 To 9999. %

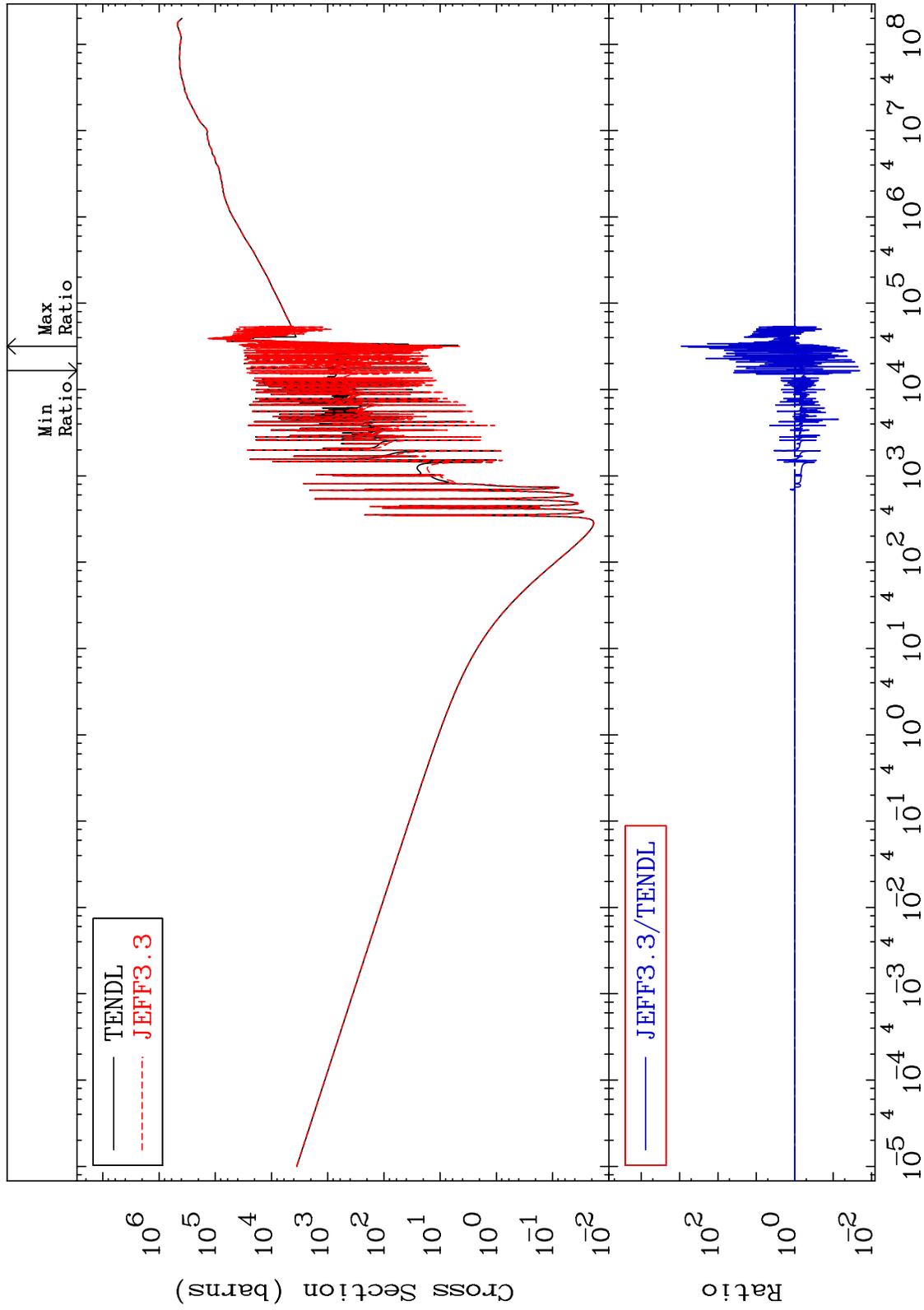


73 Incident Energy (eV) 52-Te-124

MAT 5237

Dpa total (eV-barns)
Cross Section

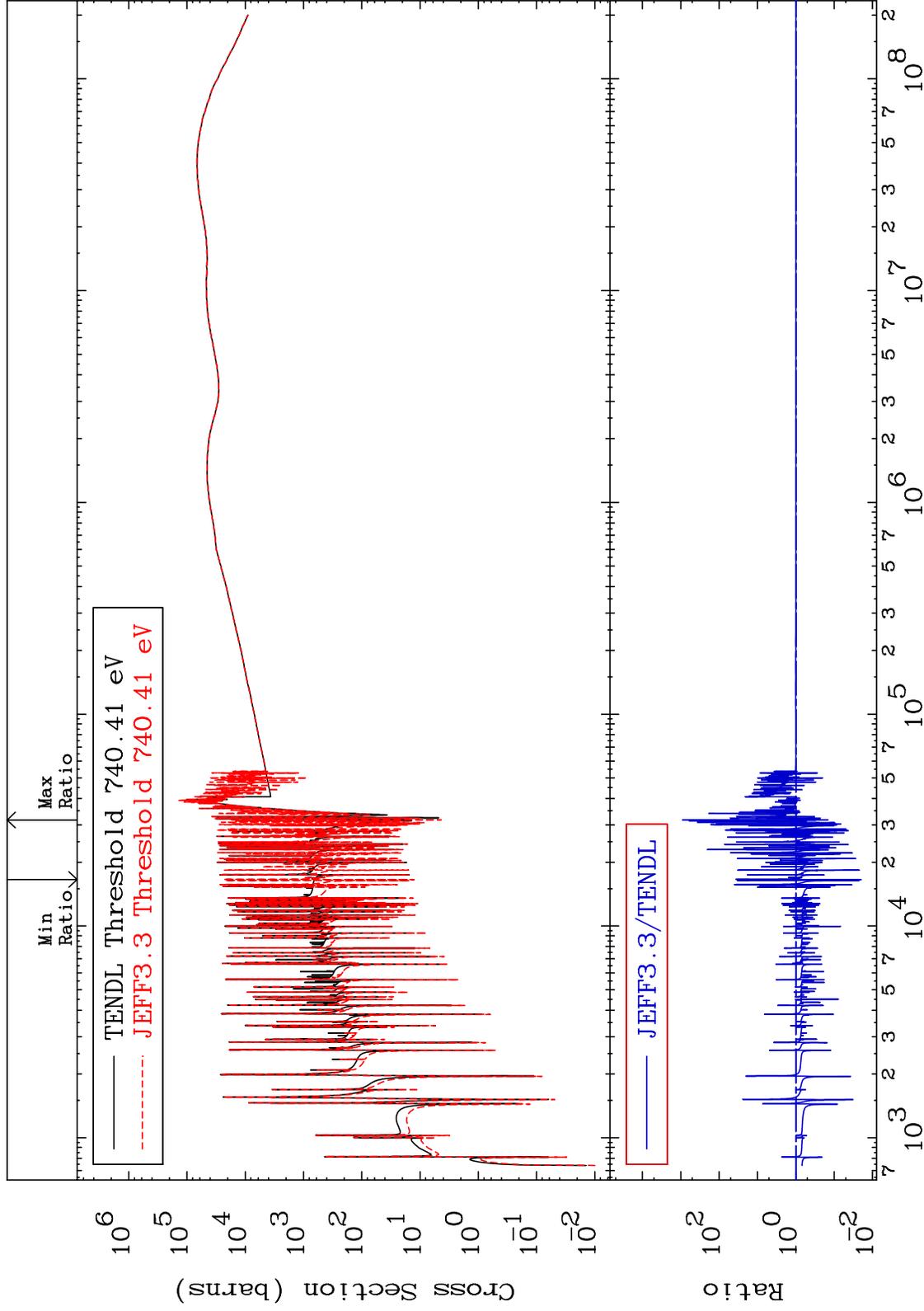
52-Te-124
-97.97 To 9999. %



MAT 5237

Dpa elastic (mt2)
Cross Section

52-Te-124
-98.04 To 9999. %

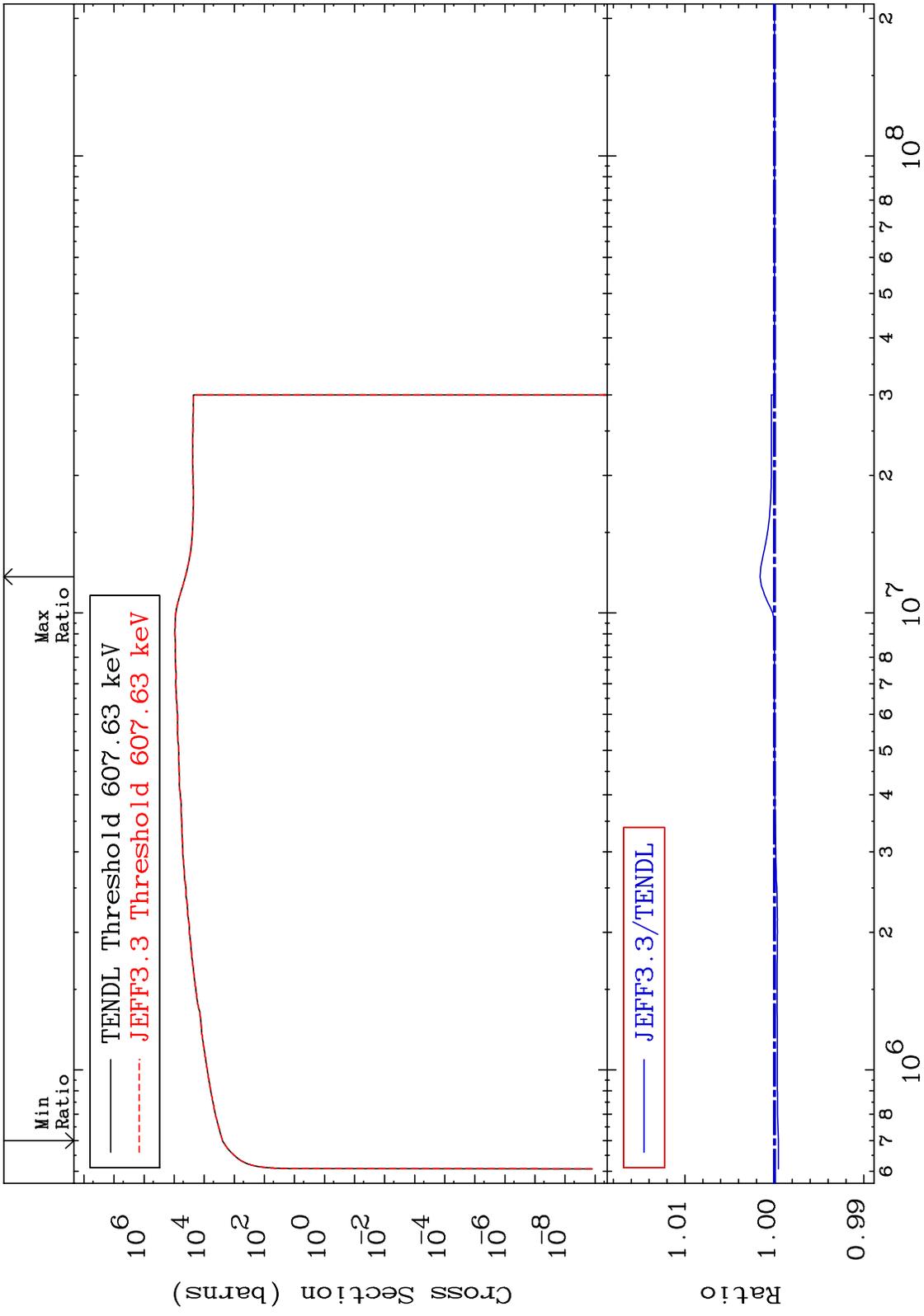


75

Incident Energy (eV)

52-Te-124

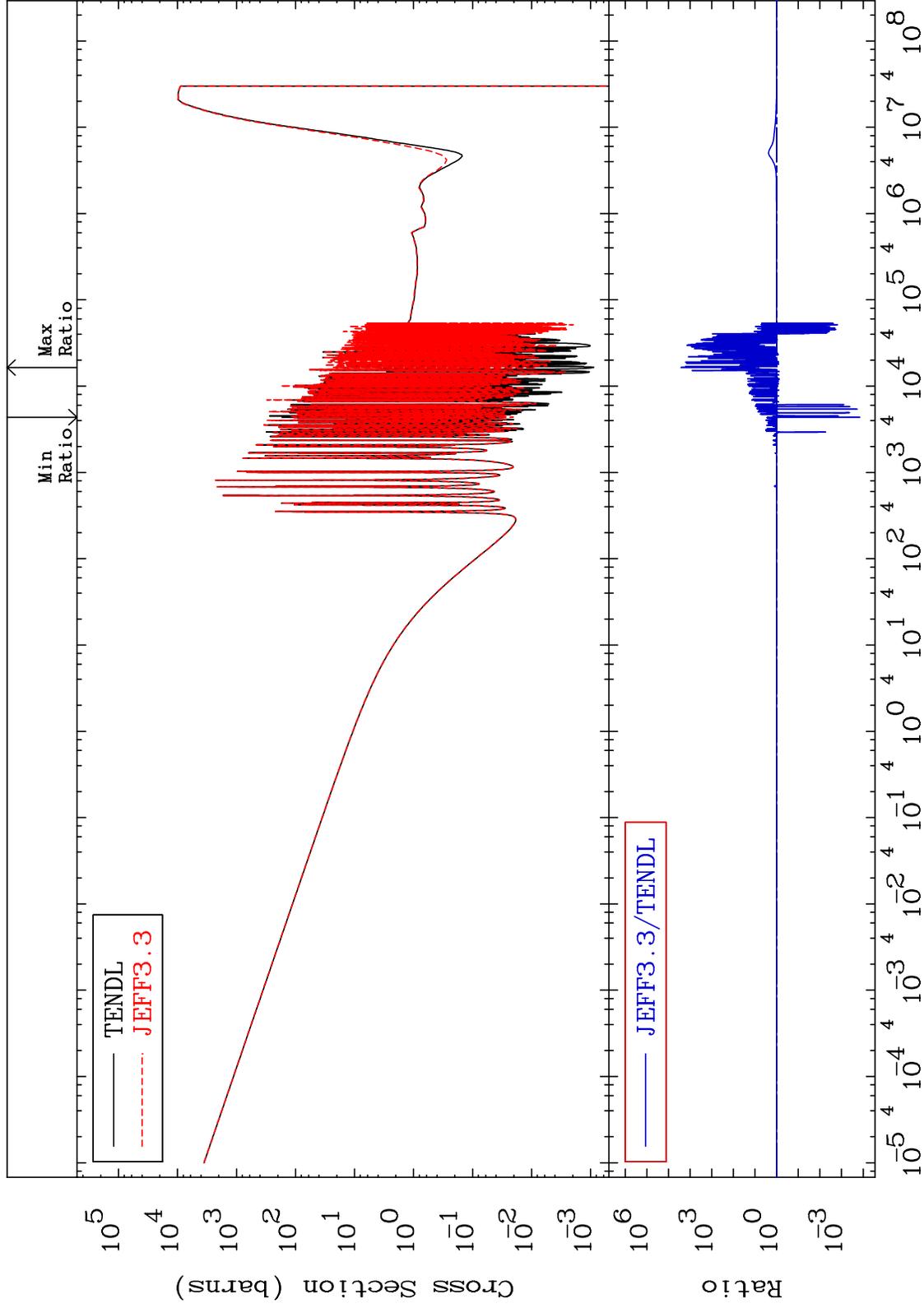
MAT 5237 Dpa inelastic (mt51-91) 52-Te-124
Cross Section -0.045 To 0.160 %



MAT 5237

Dpa disappearance (mt102 -120)
Cross Section

52-Te-124
-99.99 To 9999. %



77

Incident Energy (eV)

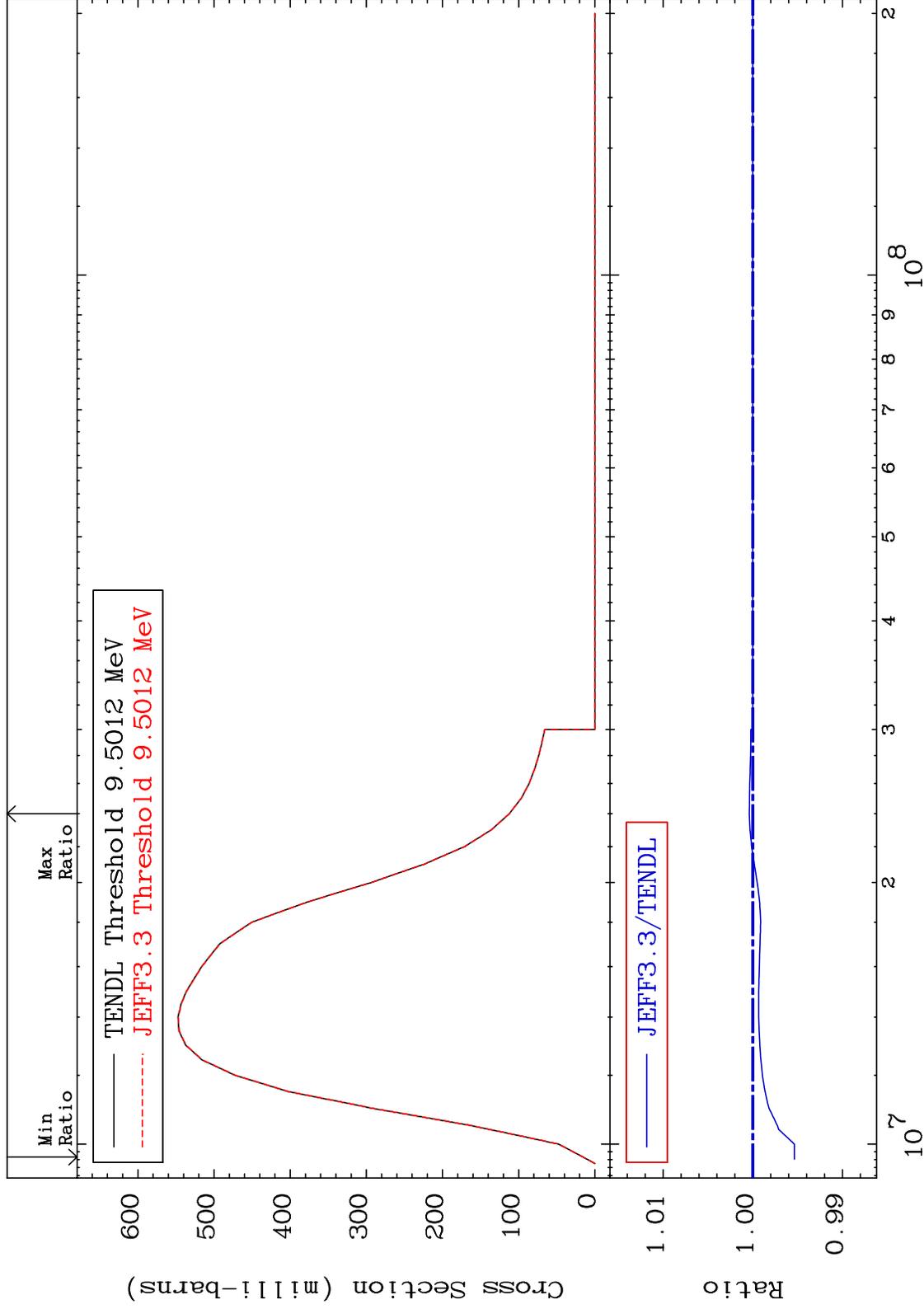
52-Te-124

MAT 5237

(n,2n):52-Te-123g

52-Te-124

Radionuclide Production Cross Section -0.463 To 0.038 %



78

Incident Energy (eV)

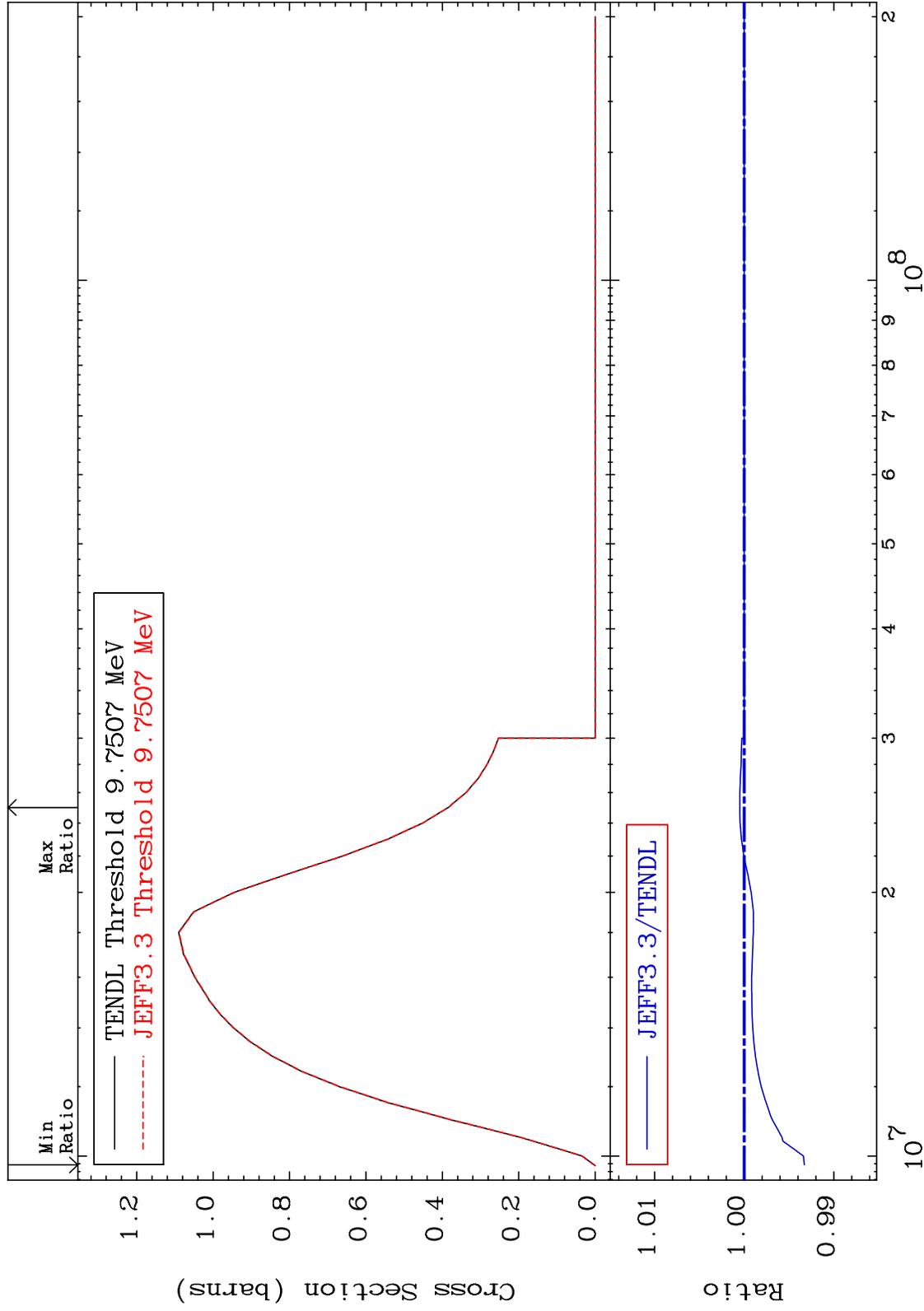
52-Te-124

MAT 5237

(n,2n):52-Te-123m2

52-Te-124

Radionuclide Production Cross Section -0.670 To 0.049 %

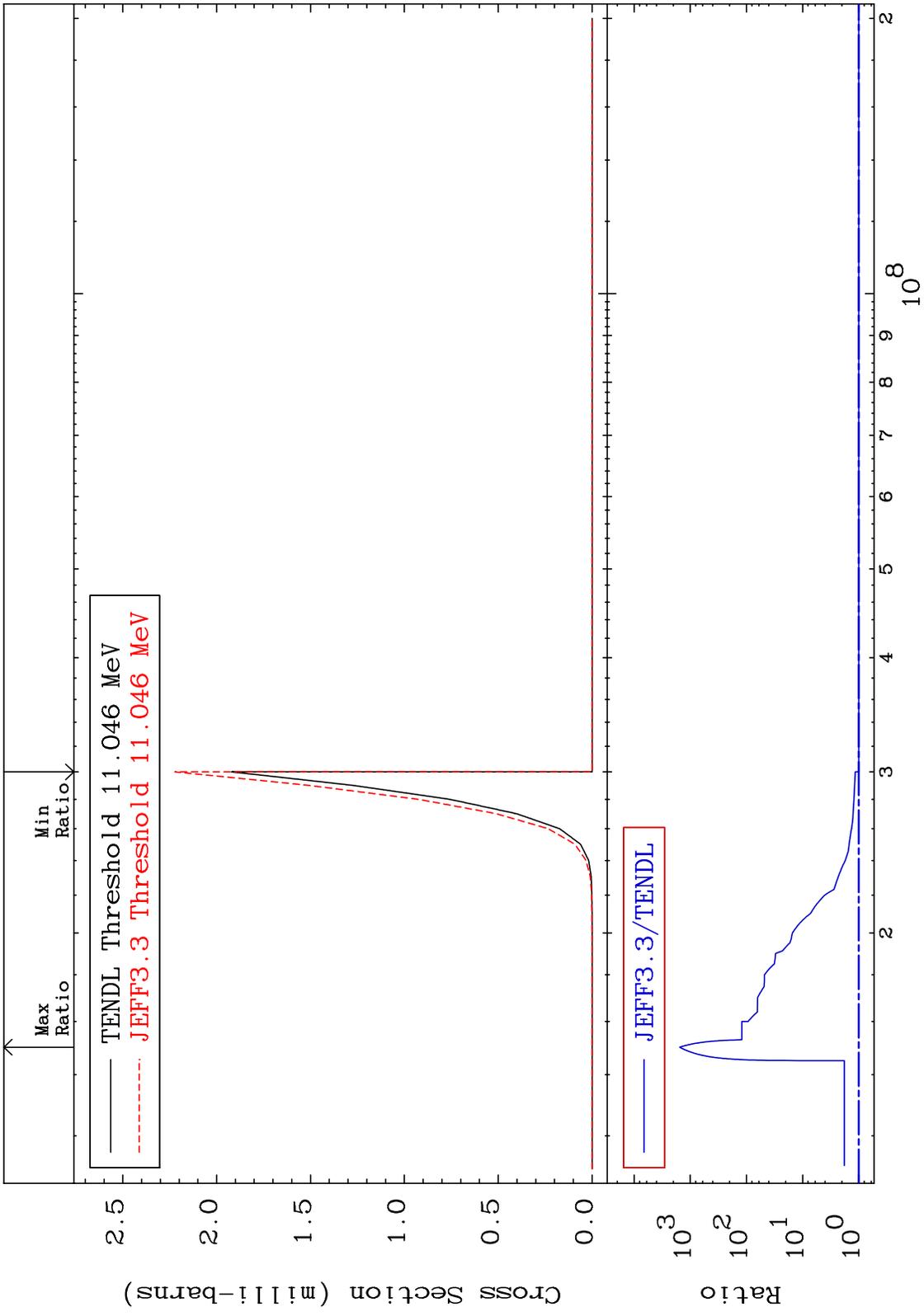


79

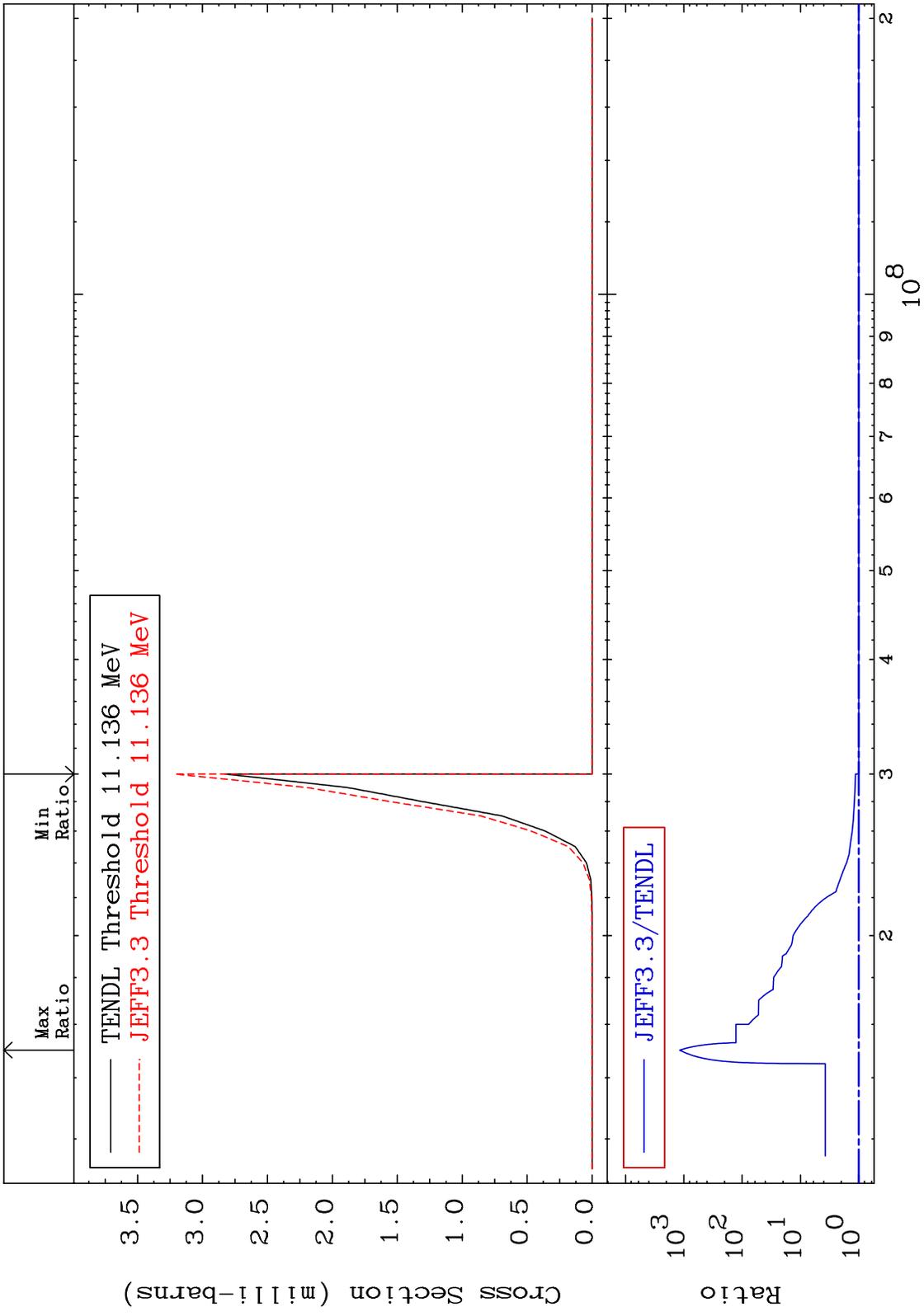
Incident Energy (eV)

52-Te-124

MAT 5237 (n,2n) α :50-Sn-119g 52-Te-124
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5237 (n,2n) α :50-Sn-119m2 52-Te-124
 Radionuclide Production Cross Section 0.000 To 9999. %

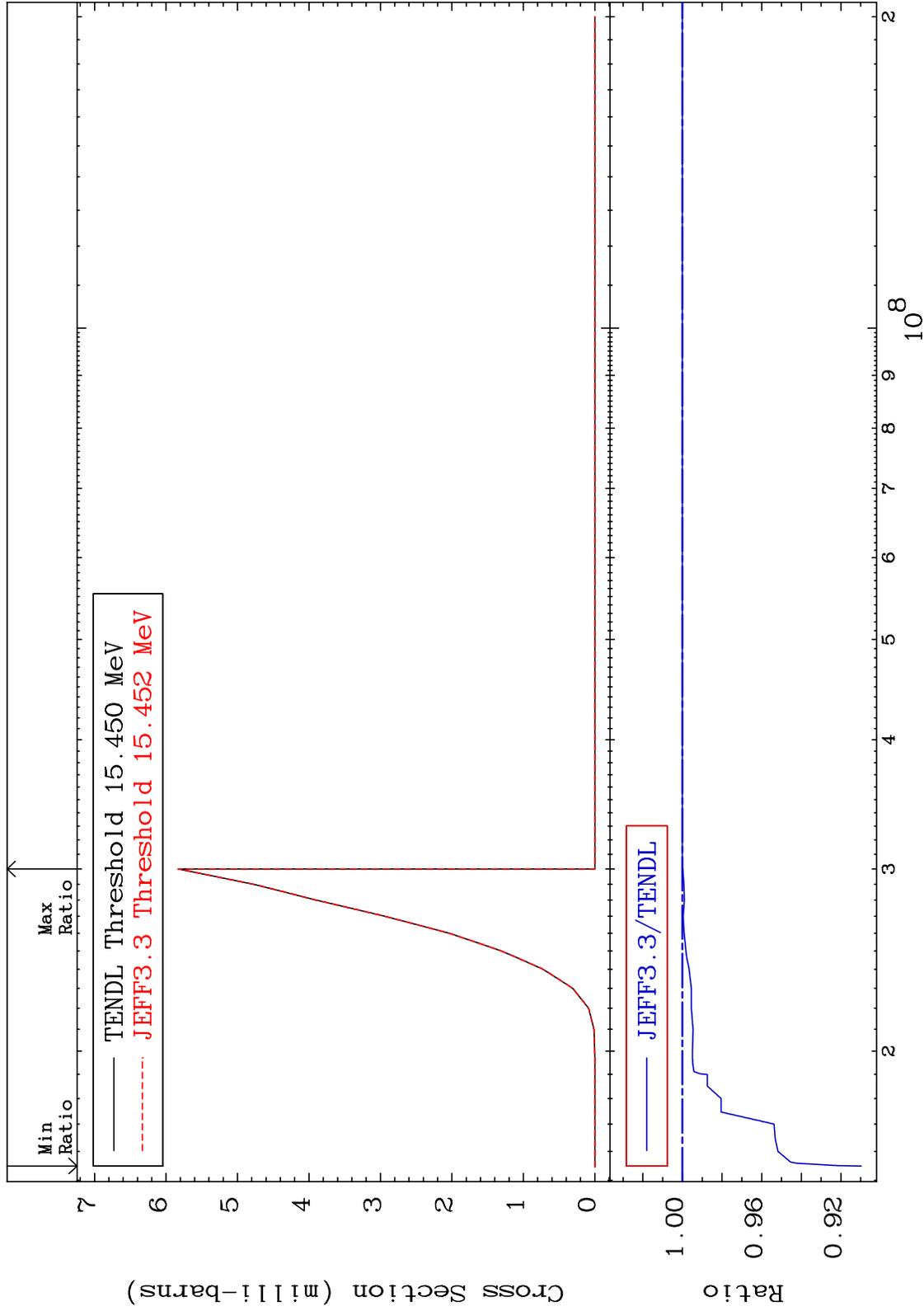


MAT 5237

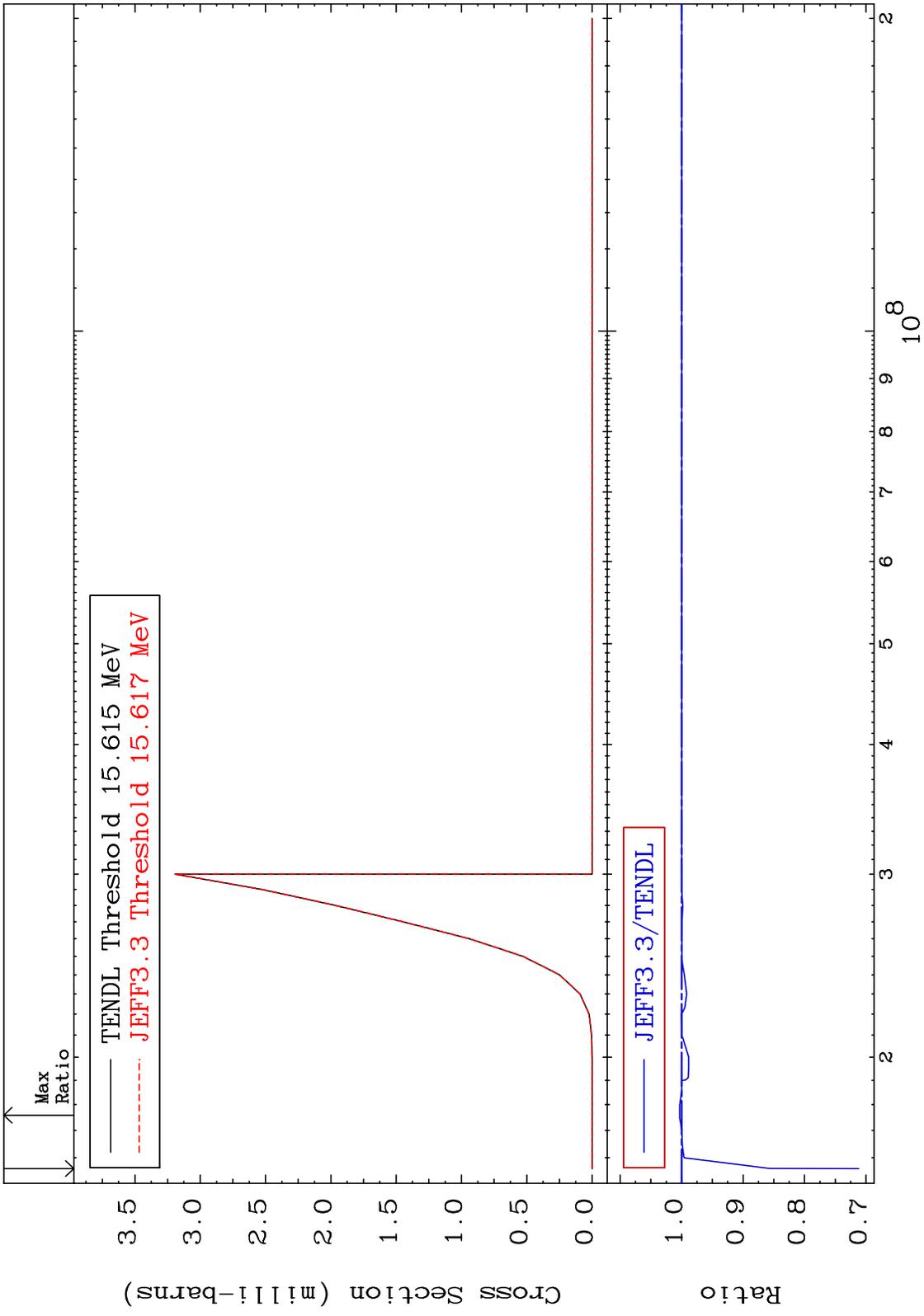
(n, n') d:51-Sb-122g

52-Te-124

Radionuclide Production Cross Section -9.031 To 0.000 %



MAT 5237 (n,n') d:51-Sb-122m5 52-Te-124
 Radionuclide Production Cross Section -28.83 To 0.301 %

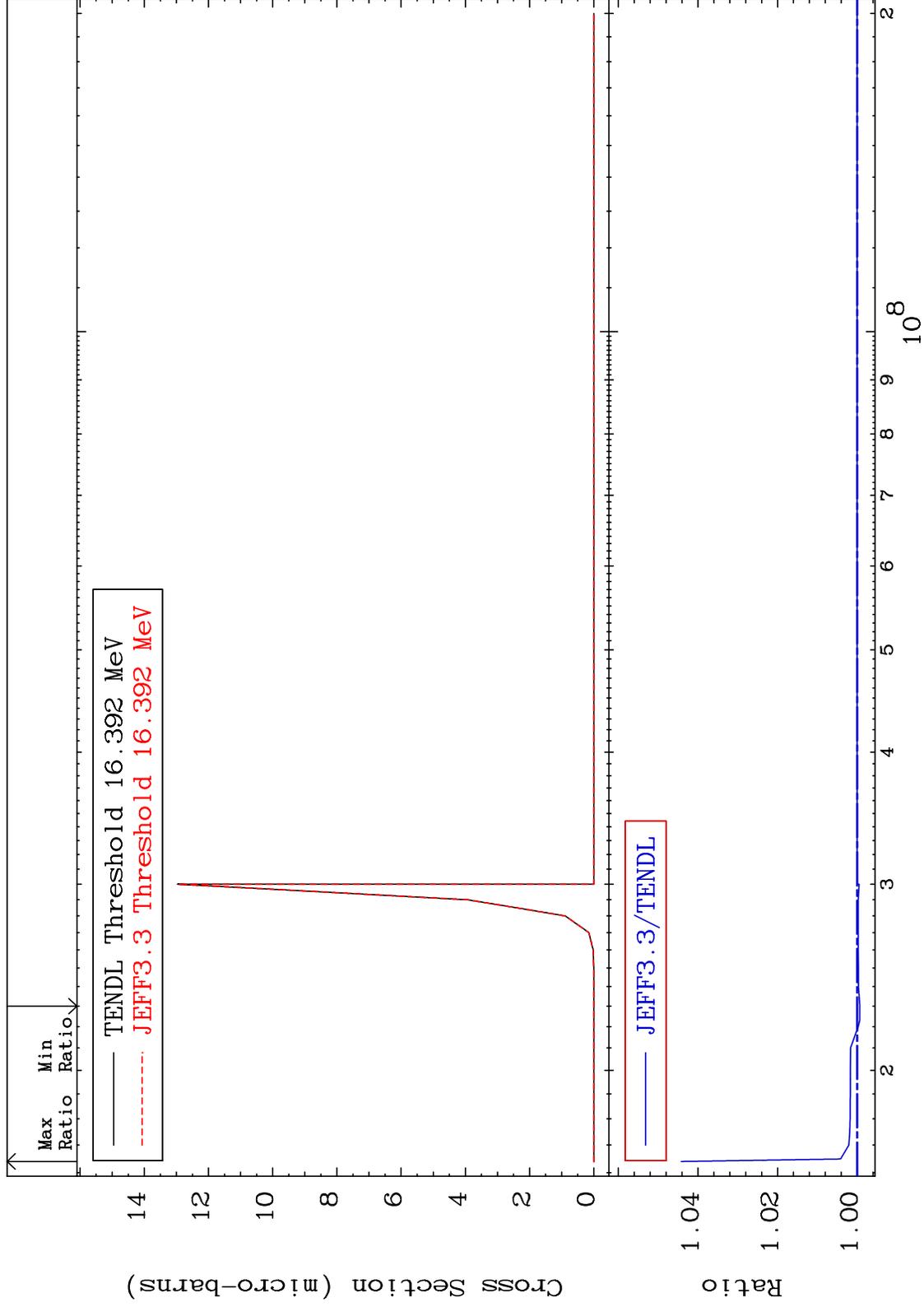


MAT 5237

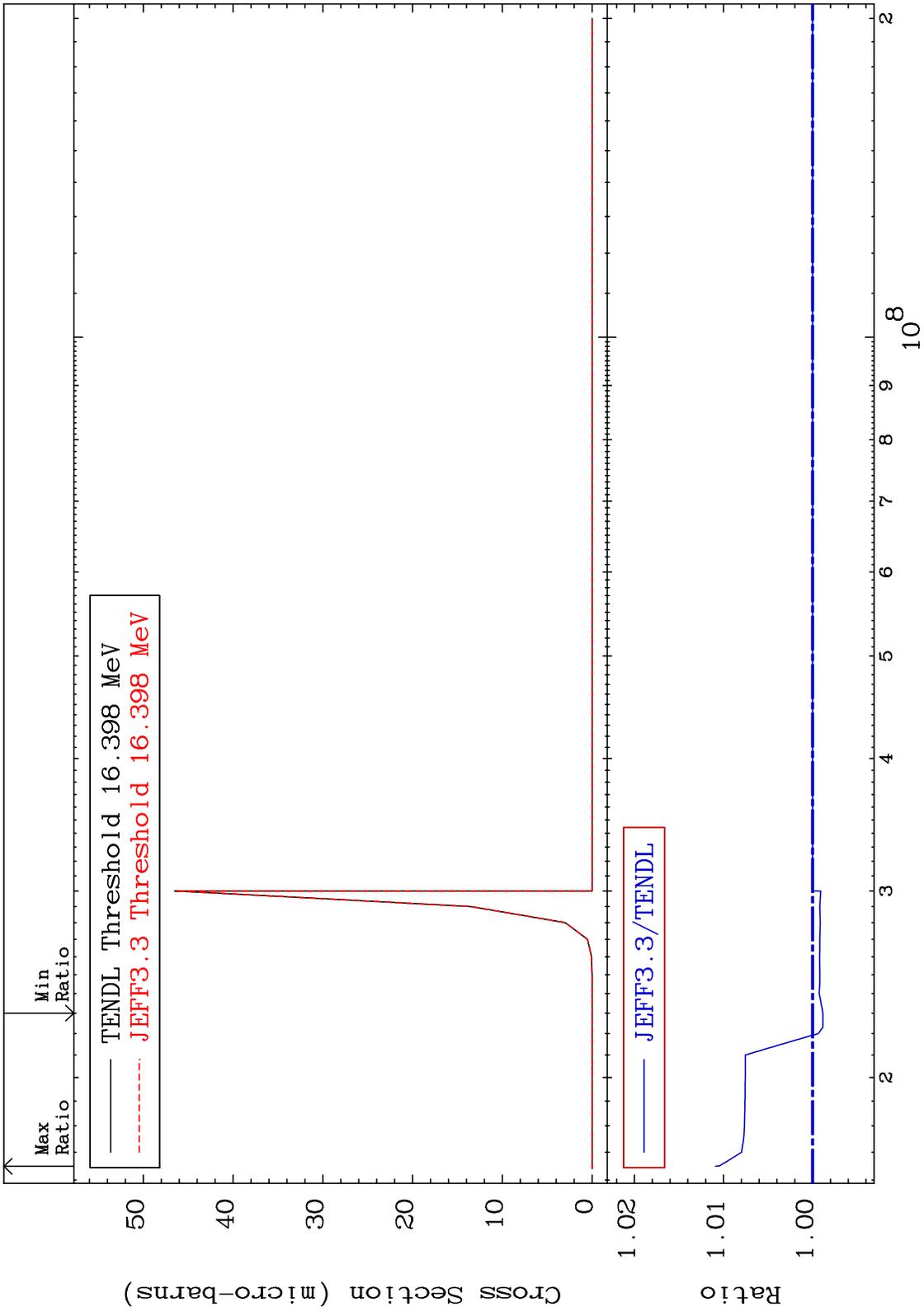
(n,n') He-3:50-Sn-121g

52-Te-124

Radionuclide Production Cross Section -0.067 To 4.420 %



MAT 5237 (n,n') He-3:50-Sh-121m1 52-Te-124
 Radionuclide Production Cross Section -0.115 To 1.088 %

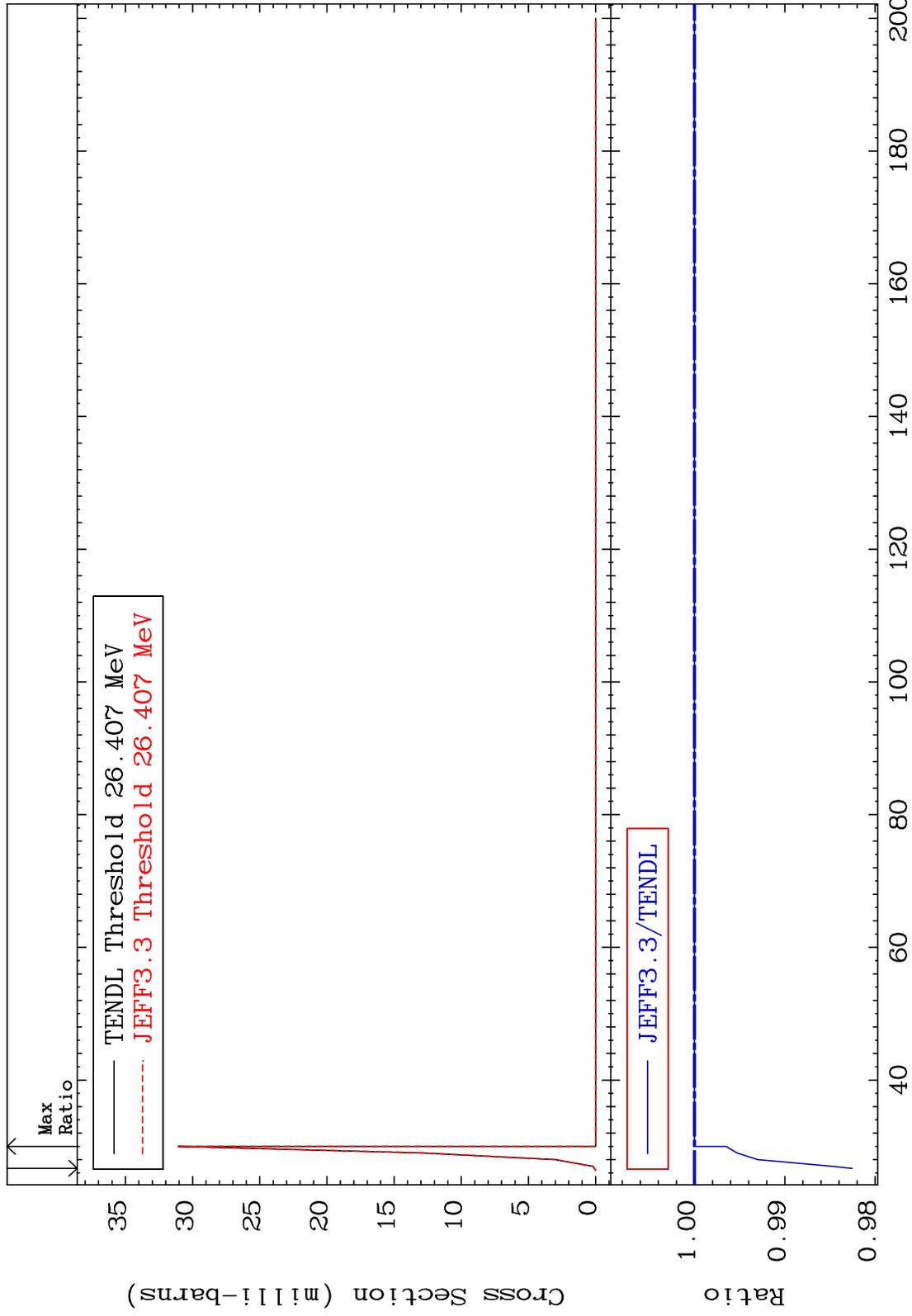


MAT 5237

(n,4n):52-Te-121g

52-Te-124

Radionuclide Production Cross Section -1.736 To 0.000 %

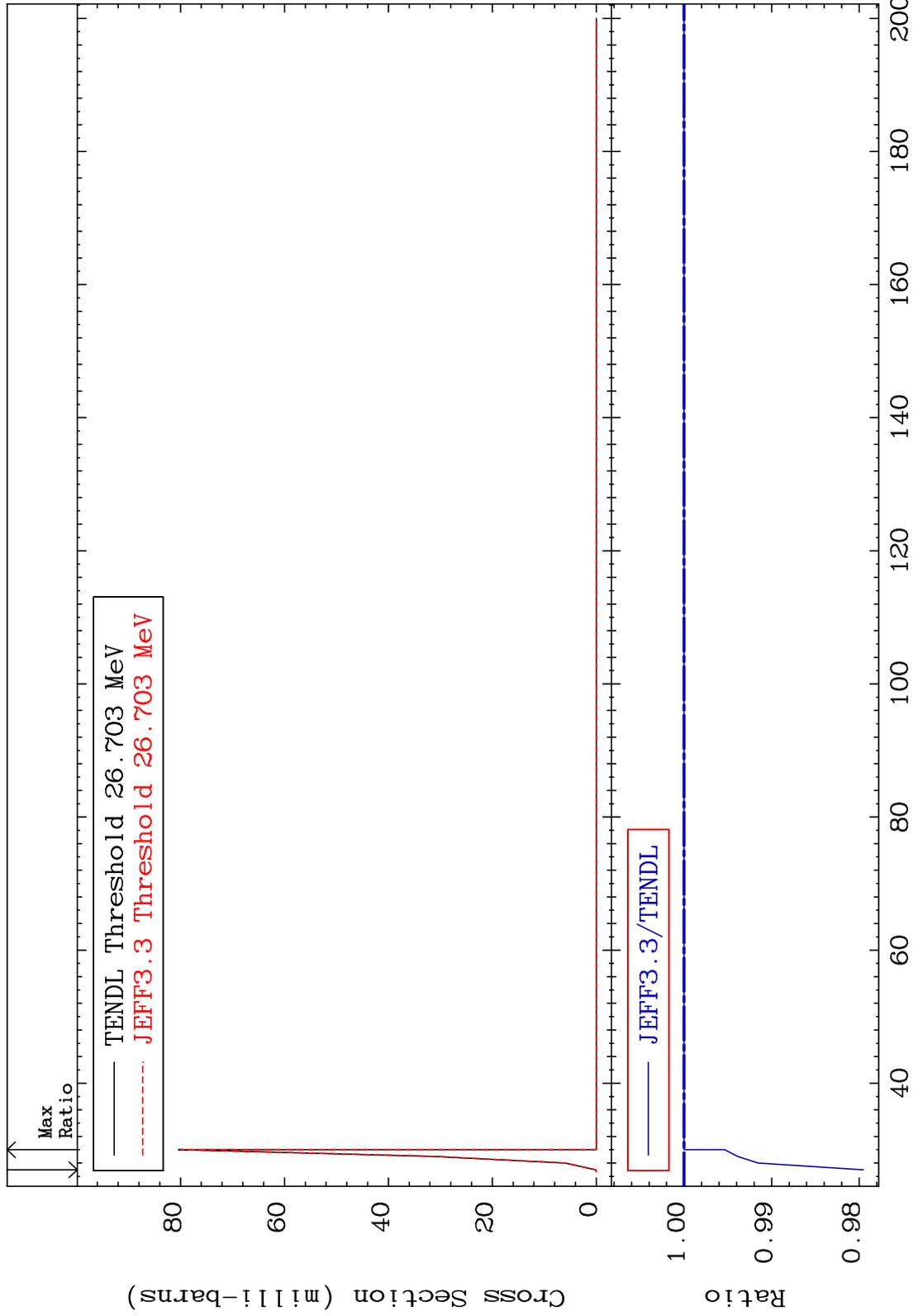


MAT 5237

(n,4n):52-Te-121m2

52-Te-124

Radionuclide Production Cross Section -2.048 To 0.000 %



87

Incident Energy (MeV)

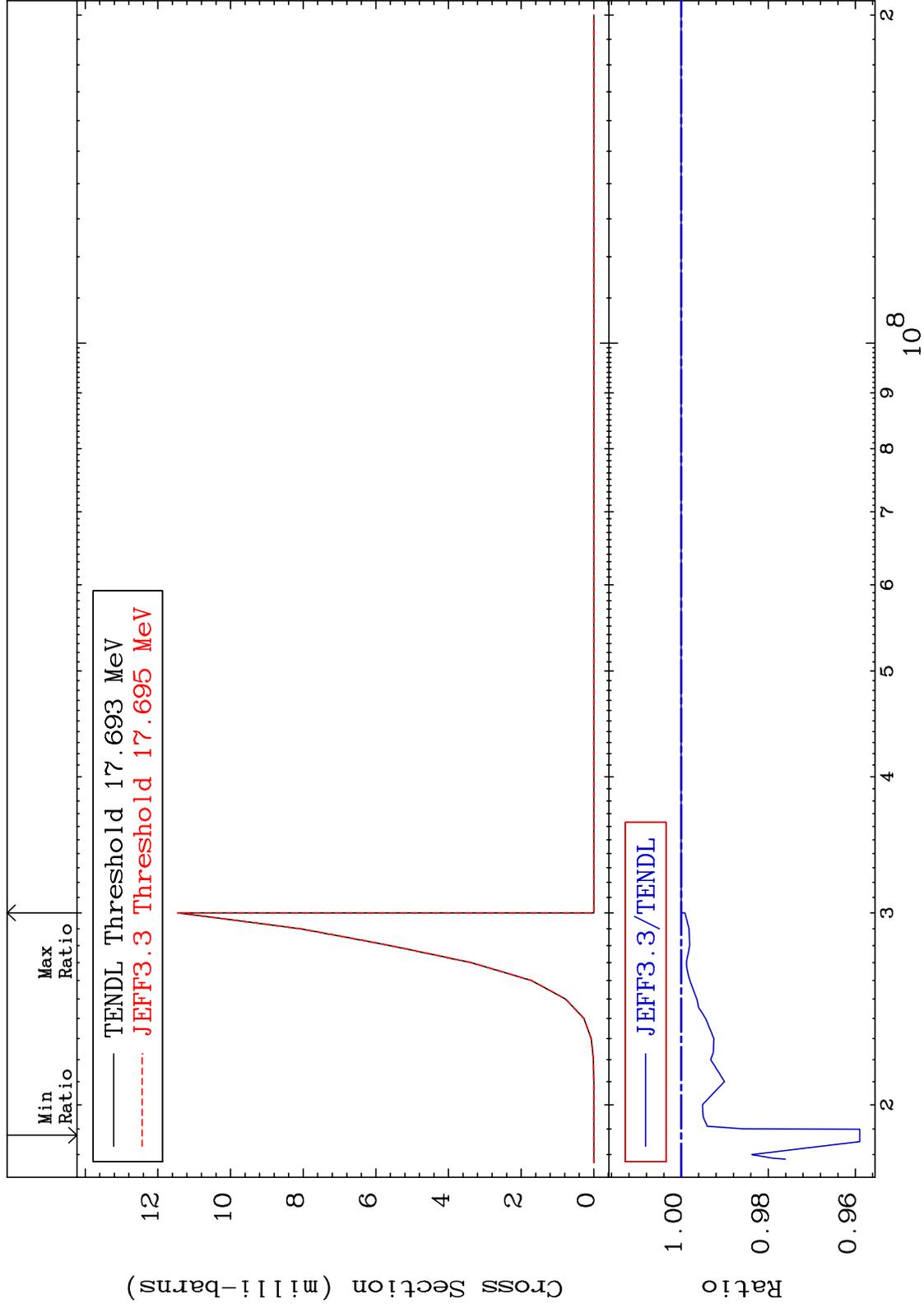
52-Te-124

MAT 5237

(n,2n) p:51-Sb-122g

52-Te-124

Radionuclide Production Cross Section -4.103 To 0.000 %

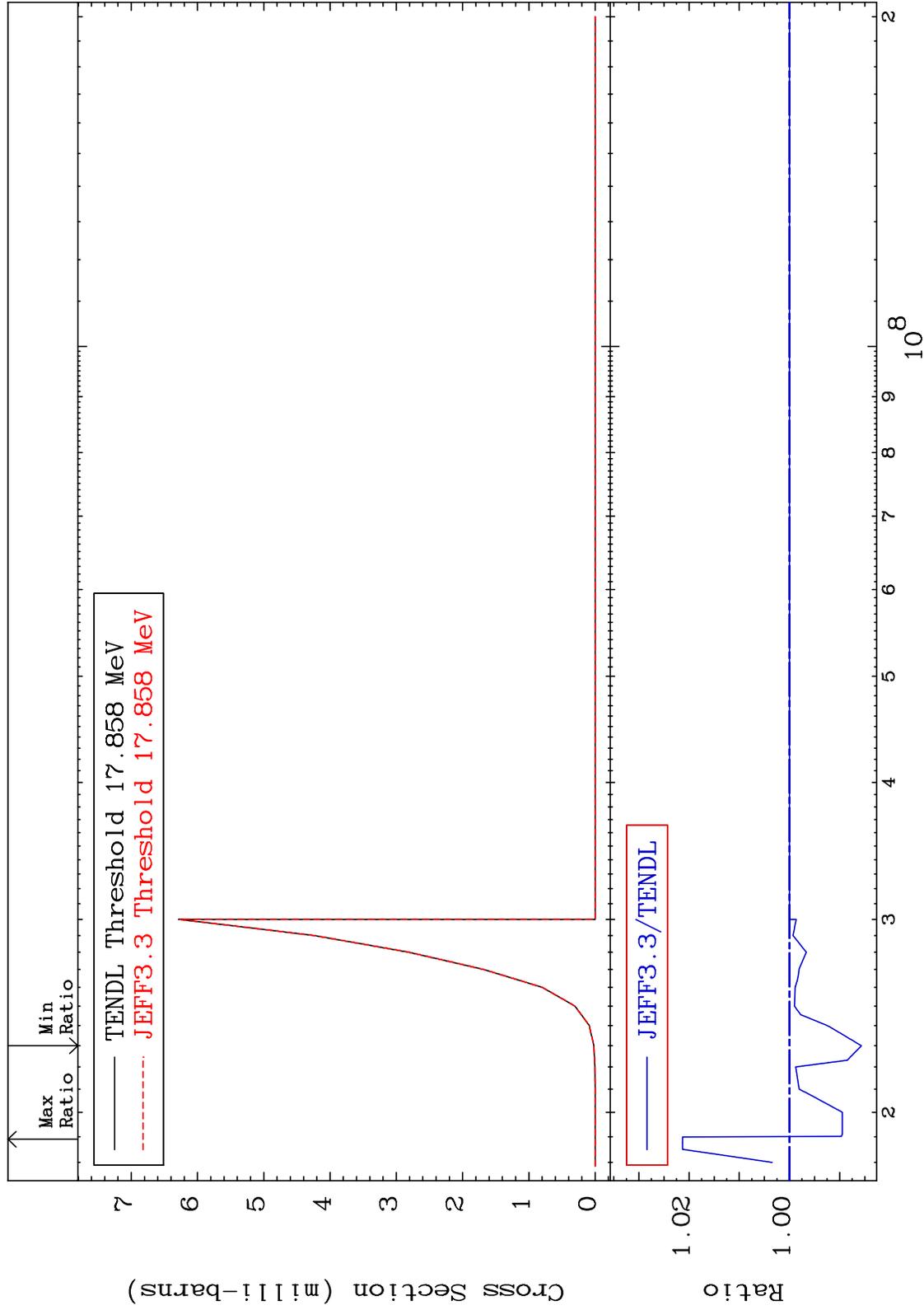


MAT 5237

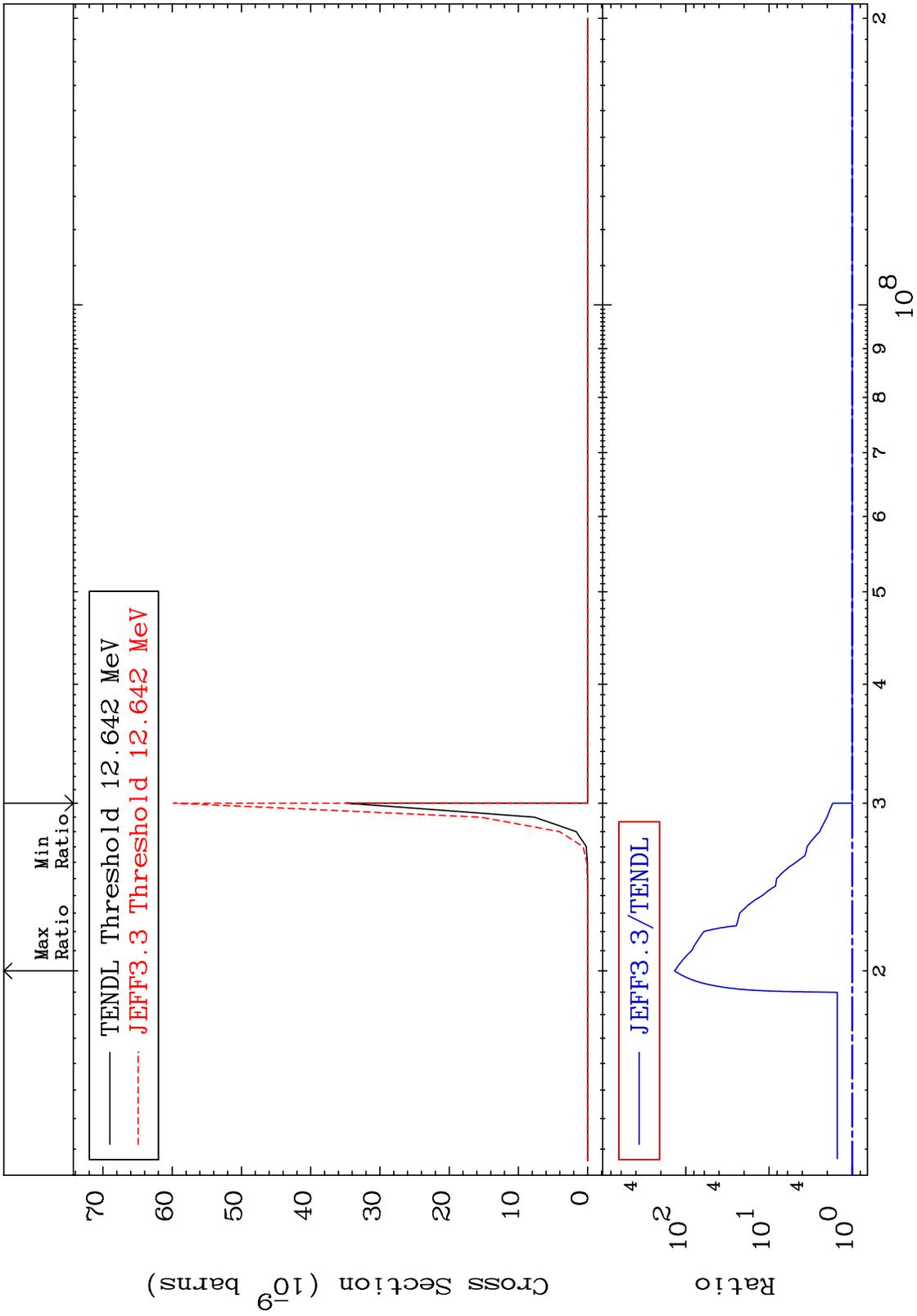
(n,2n) p:51-Sb-122m5

52-Te-124

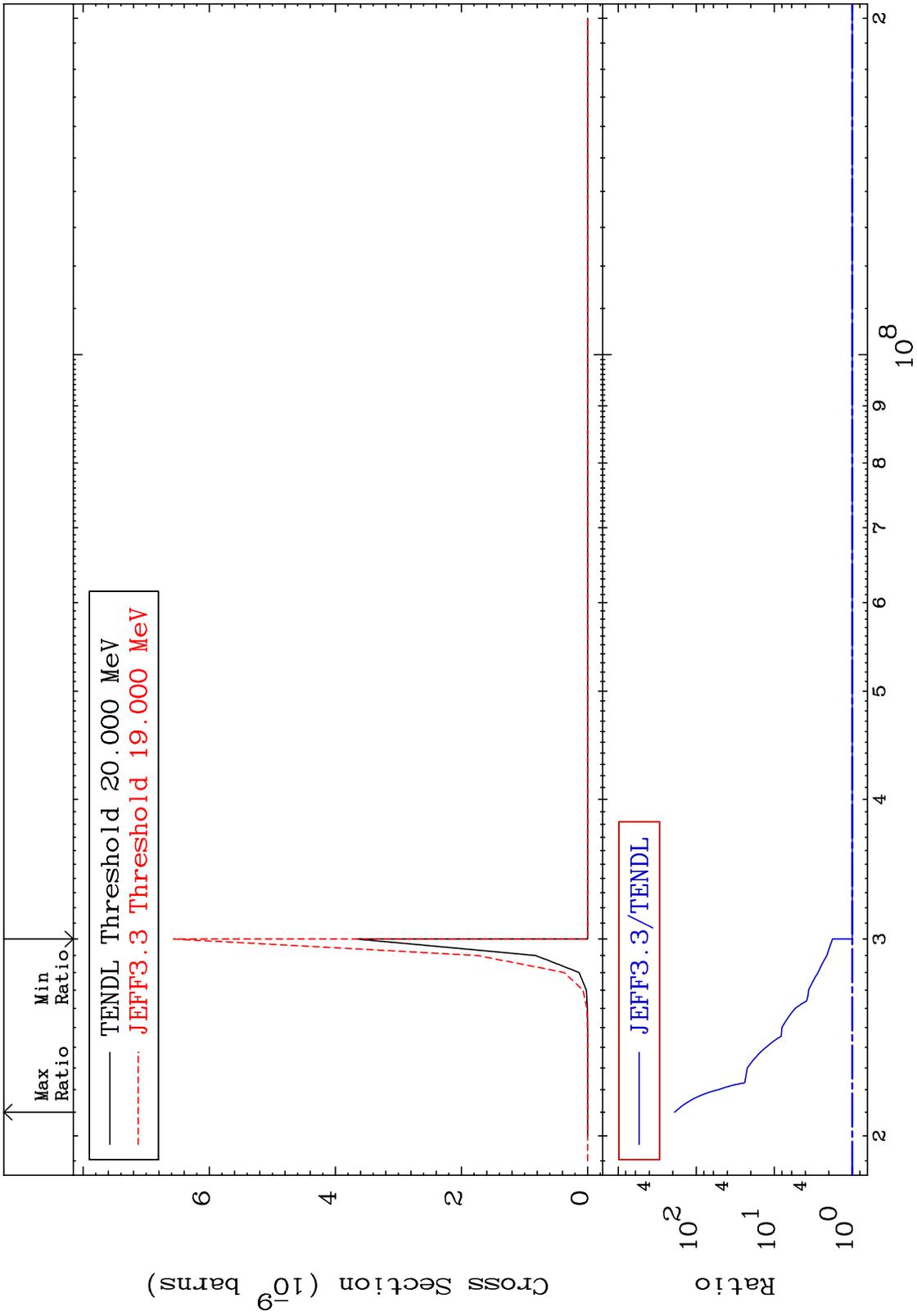
Radionuclide Production Cross Section -1.433 To 2.128 %



MAT 5237 (n,n') p α:49-In-119g 52-Te-124
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5237 (n,n') p α :49-In-119m1 52-Te-124
 Radionuclide Production Cross Section 0.000 To 9999. %

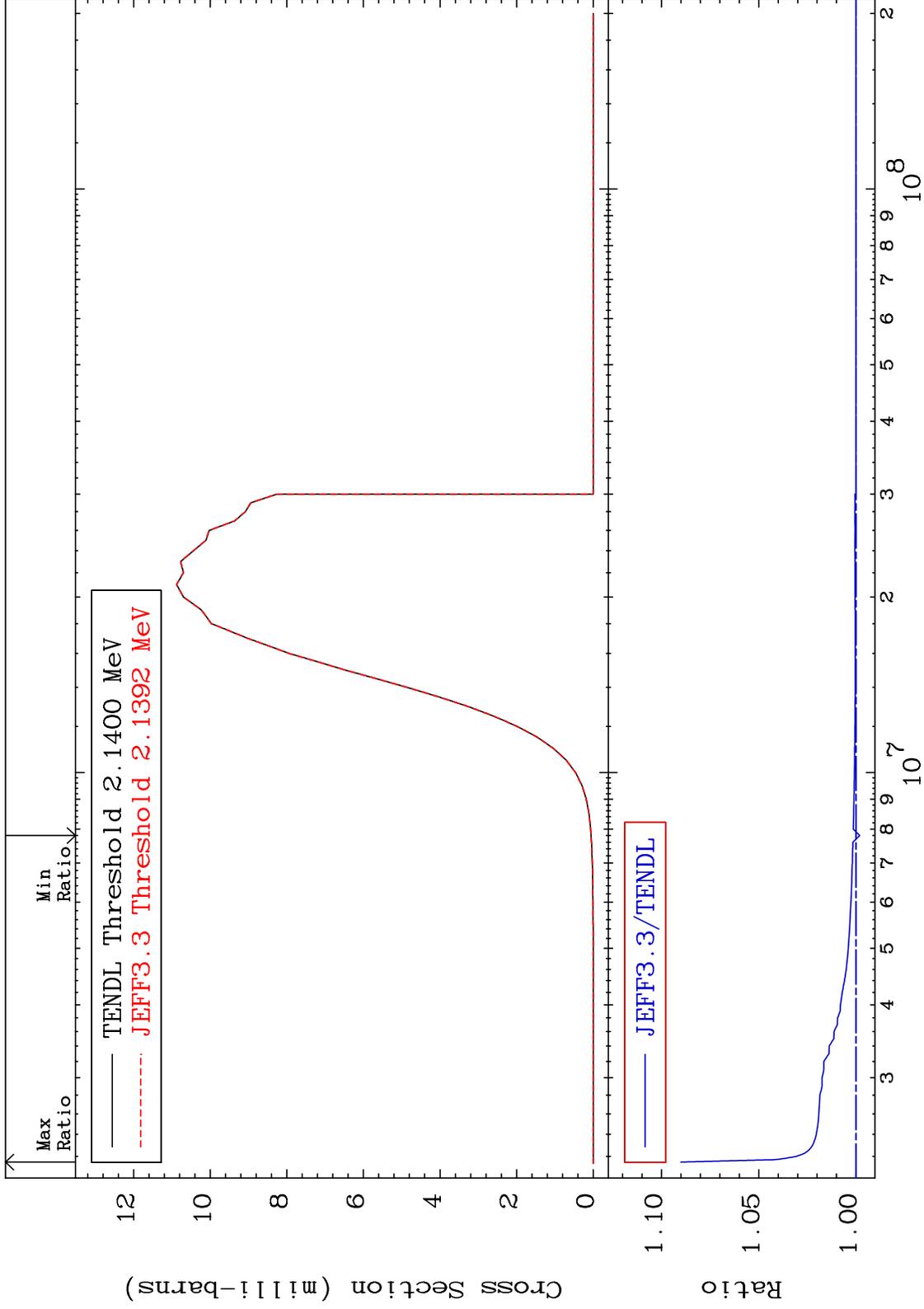


MAT 5237

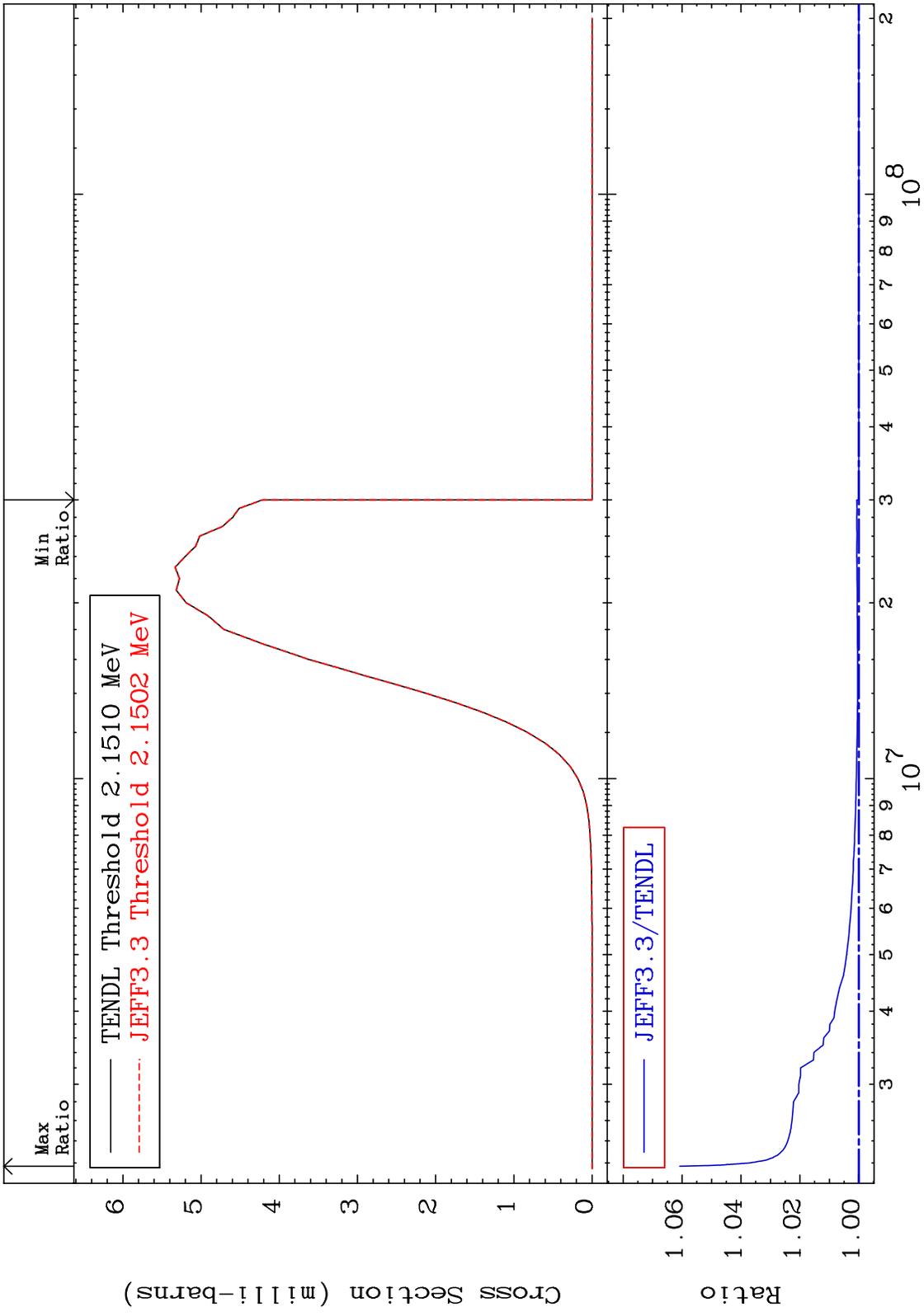
(n,p):51-Sb-124g

52-Te-124

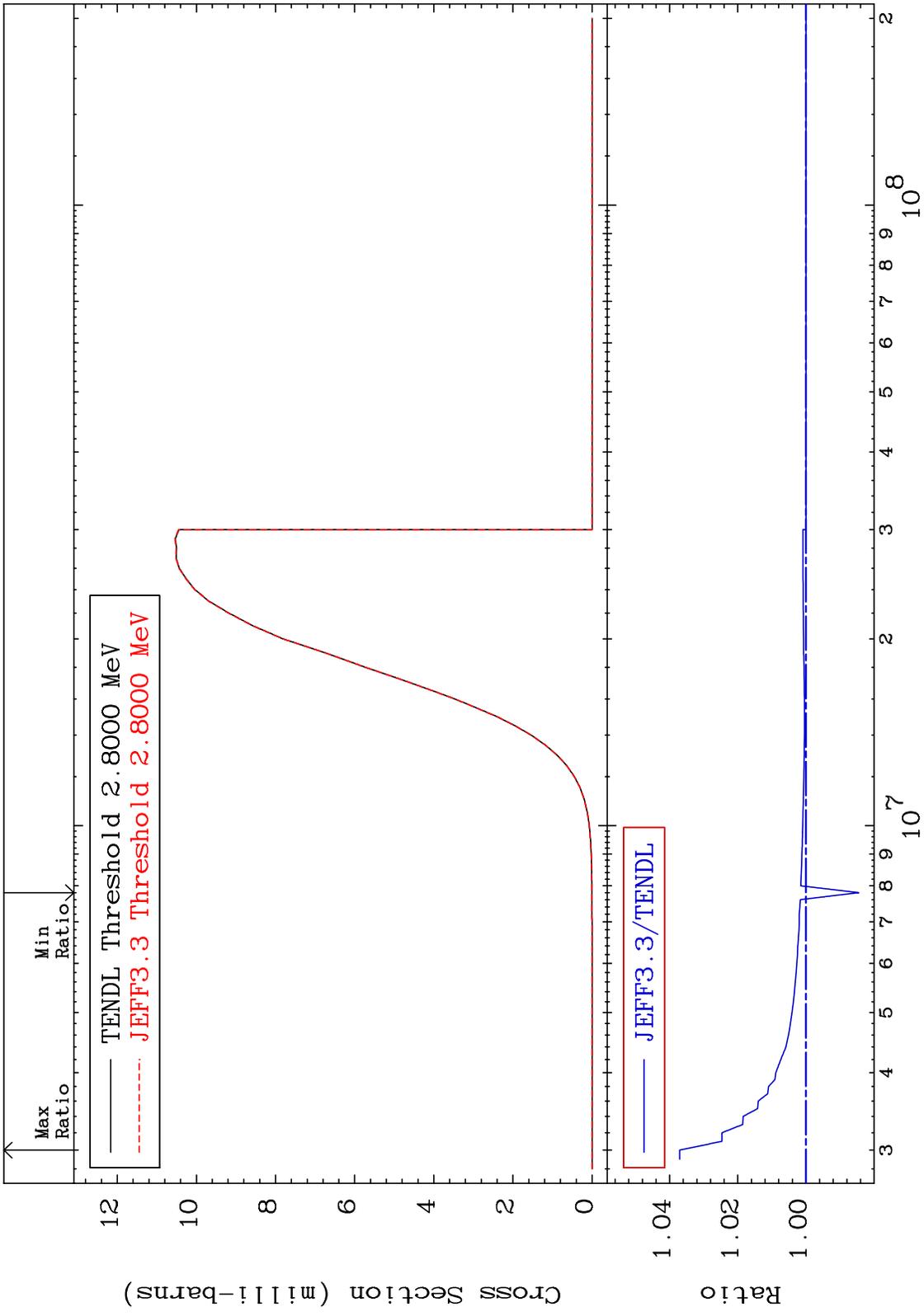
Radionuclide Production Cross Section -0.189 To 9.005 %



MAT 5237 (n,p):51-Sb-124m1 52-Te-124
 Radionuclide Production Cross Section 0.000 To 6.080 %



MAT 5237 (n,p):51-Sb-124m2 52-Te-124
 Radionuclide Production Cross Section -1.550 To 3.703 %

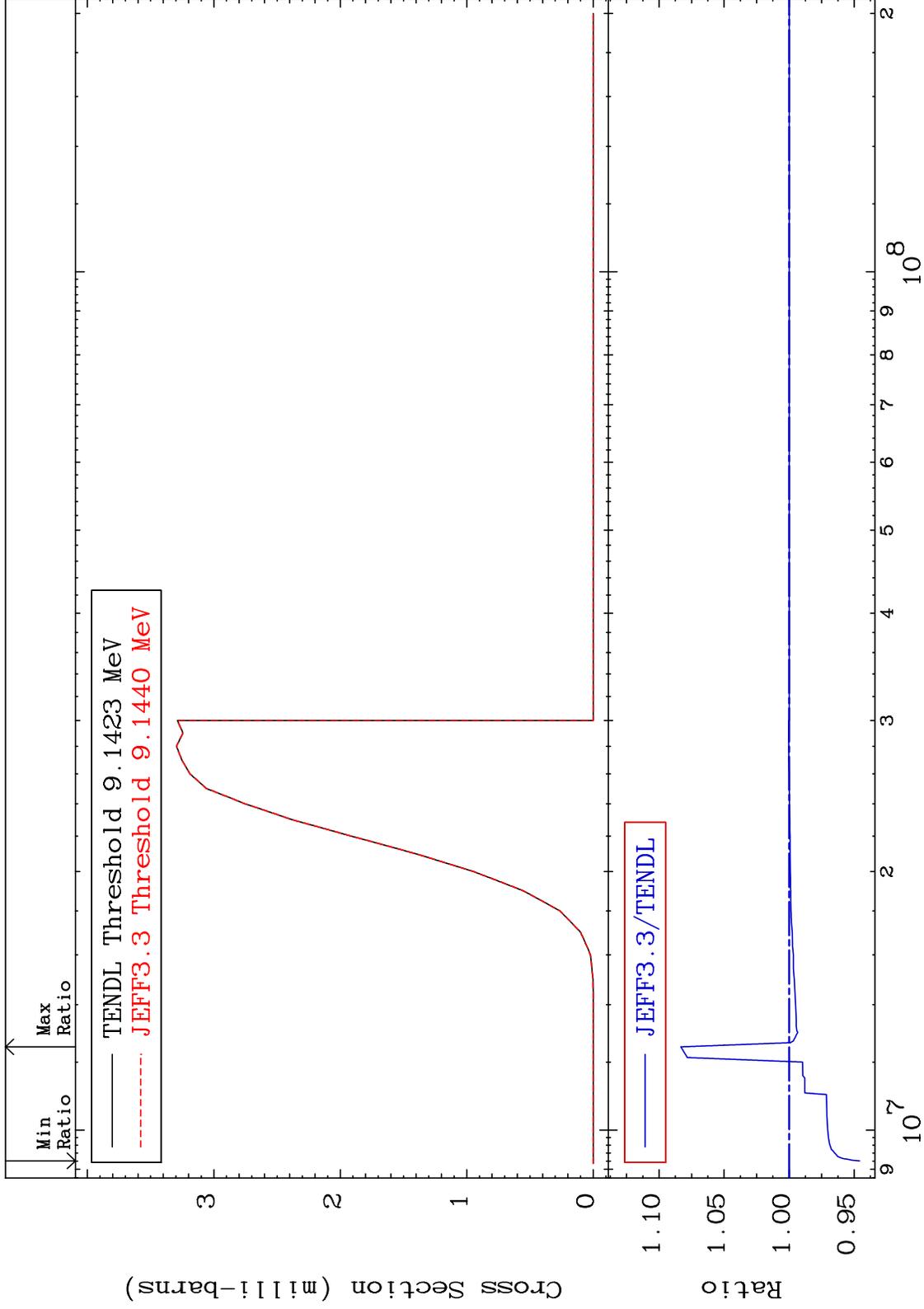


MAT 5237

(n,t):51-Sb-122g

52-Te-124

Radionuclide Production Cross Section -5.424 To 8.329 %



95

Incident Energy (eV)

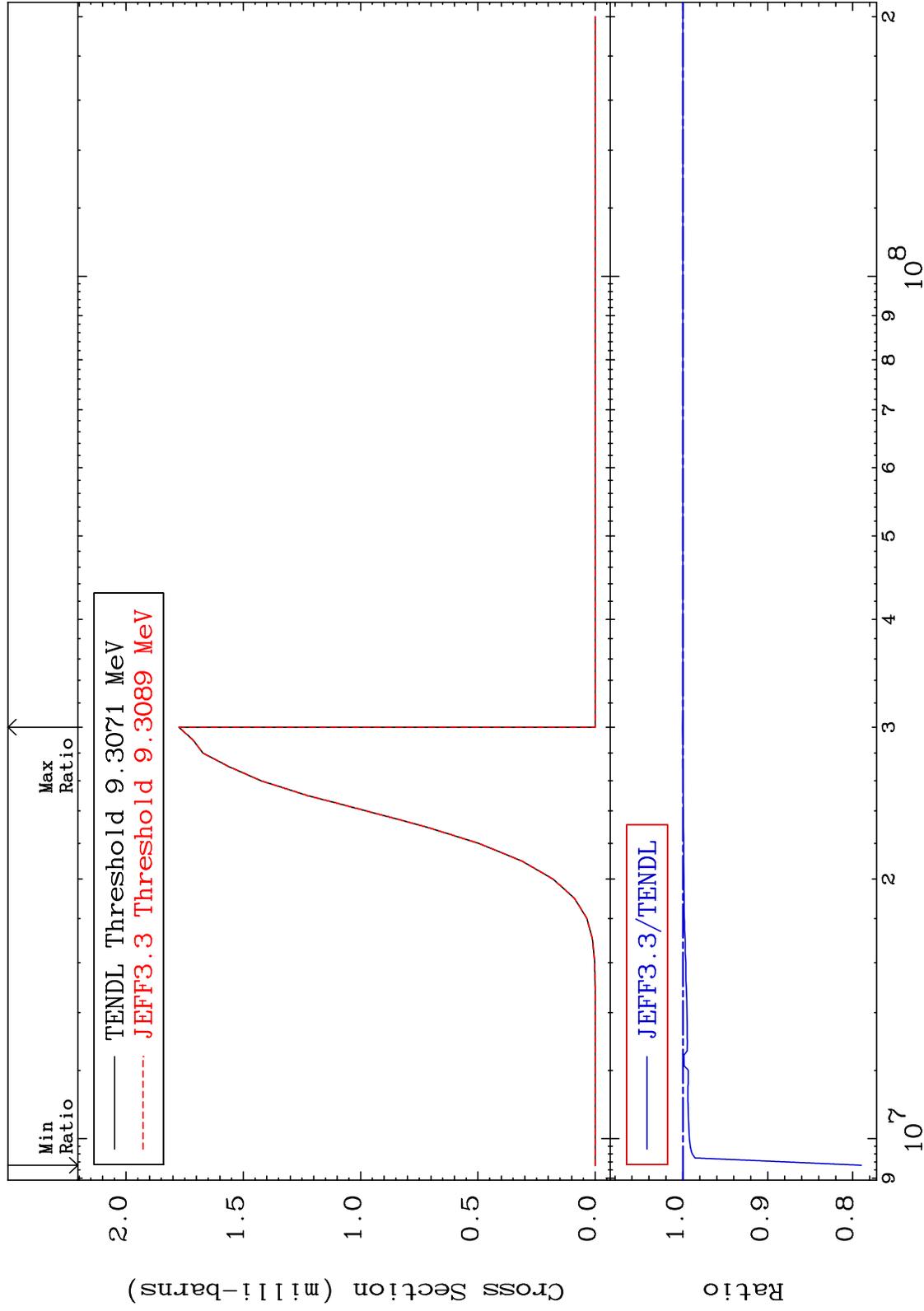
52-Te-124

MAT 5237

(n, t): 51-Sb-122m5

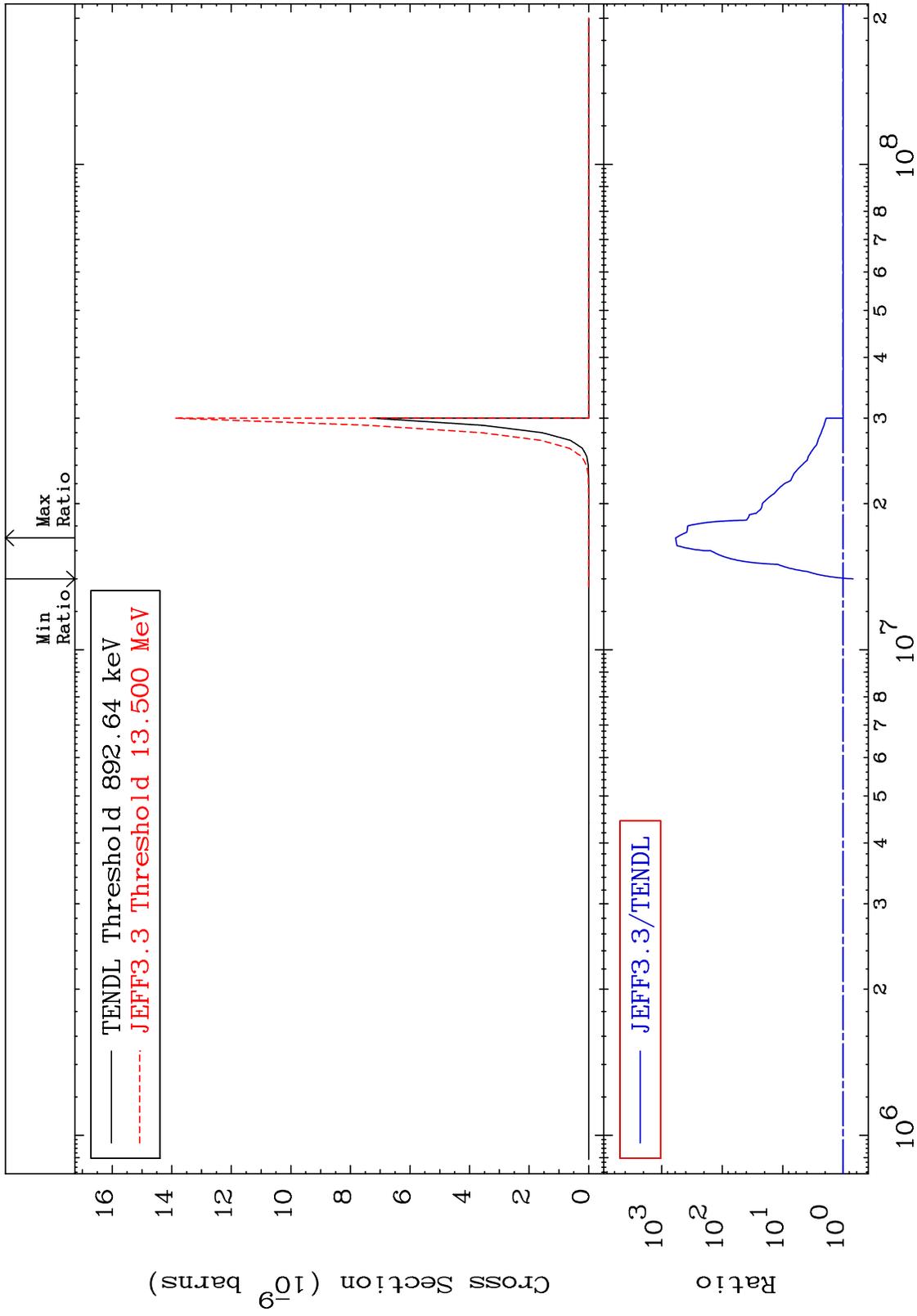
52-Te-124

Radionuclide Production Cross Section -21.03 To 0.026 %



MAT 5237

(n,2α):48-Cd-117g 52-Te-124
Radionuclide Production Cross Section -31.45 To 9999. %



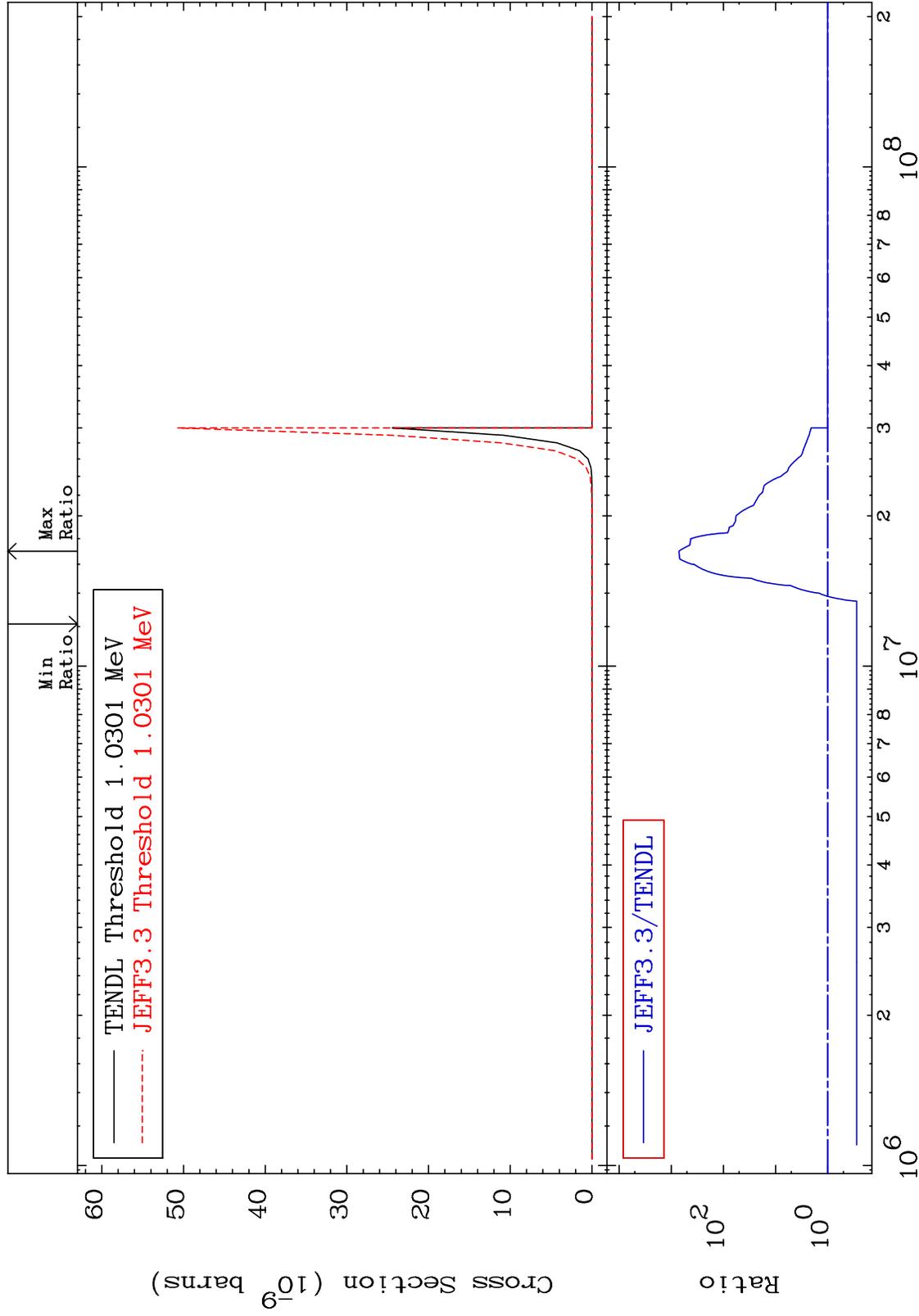
97

MAT 5237

(n,2α) : 48-Cd-117m2

52-Te-124

Radionuclide Production Cross Section -72.32 To 9999. %

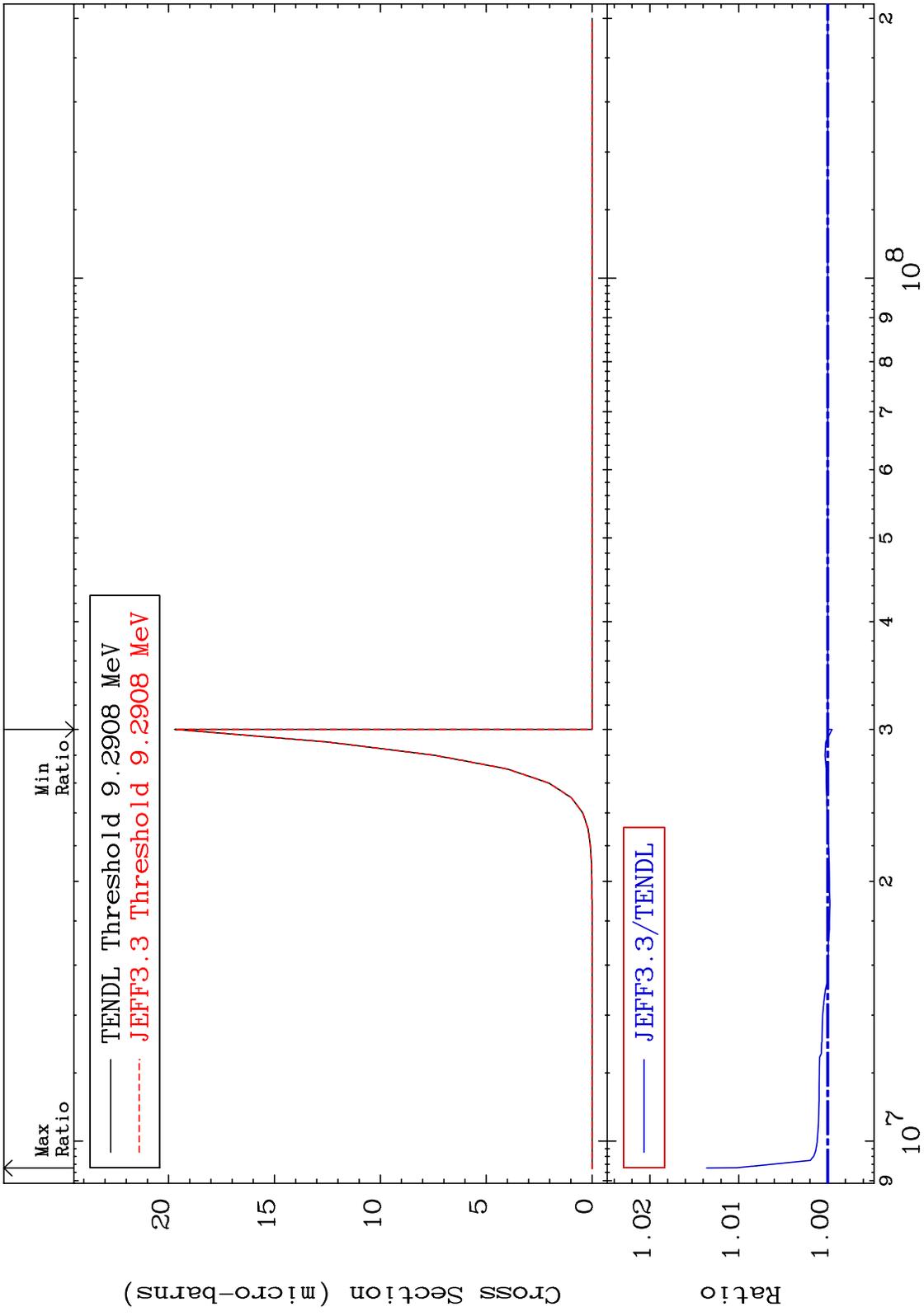


98

Incident Energy (eV)

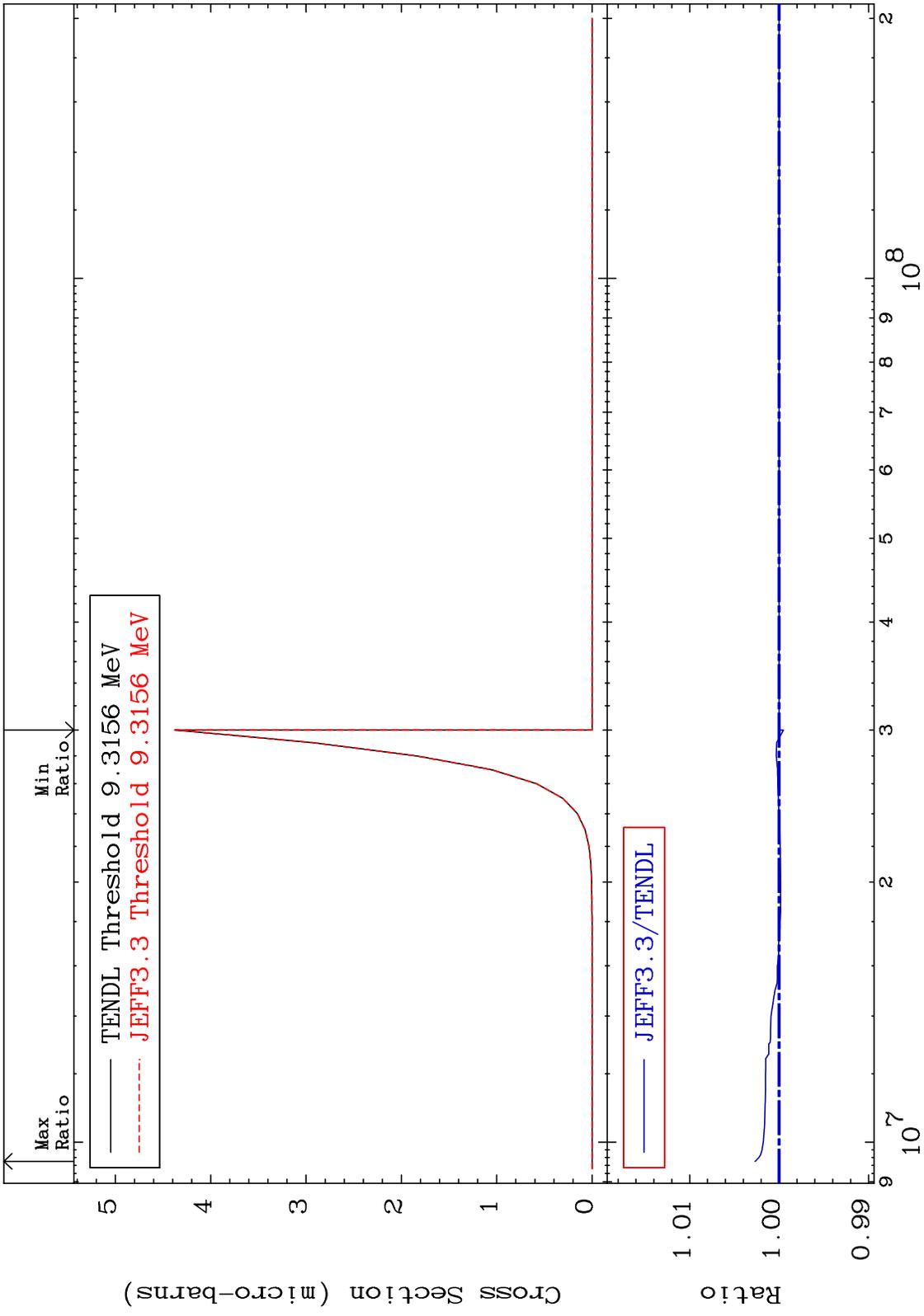
52-Te-124

MAT 5237 (n,2p):50-Sn-123g 52-Te-124
Radionuclide Production Cross Section -0.049 To 1.363 %



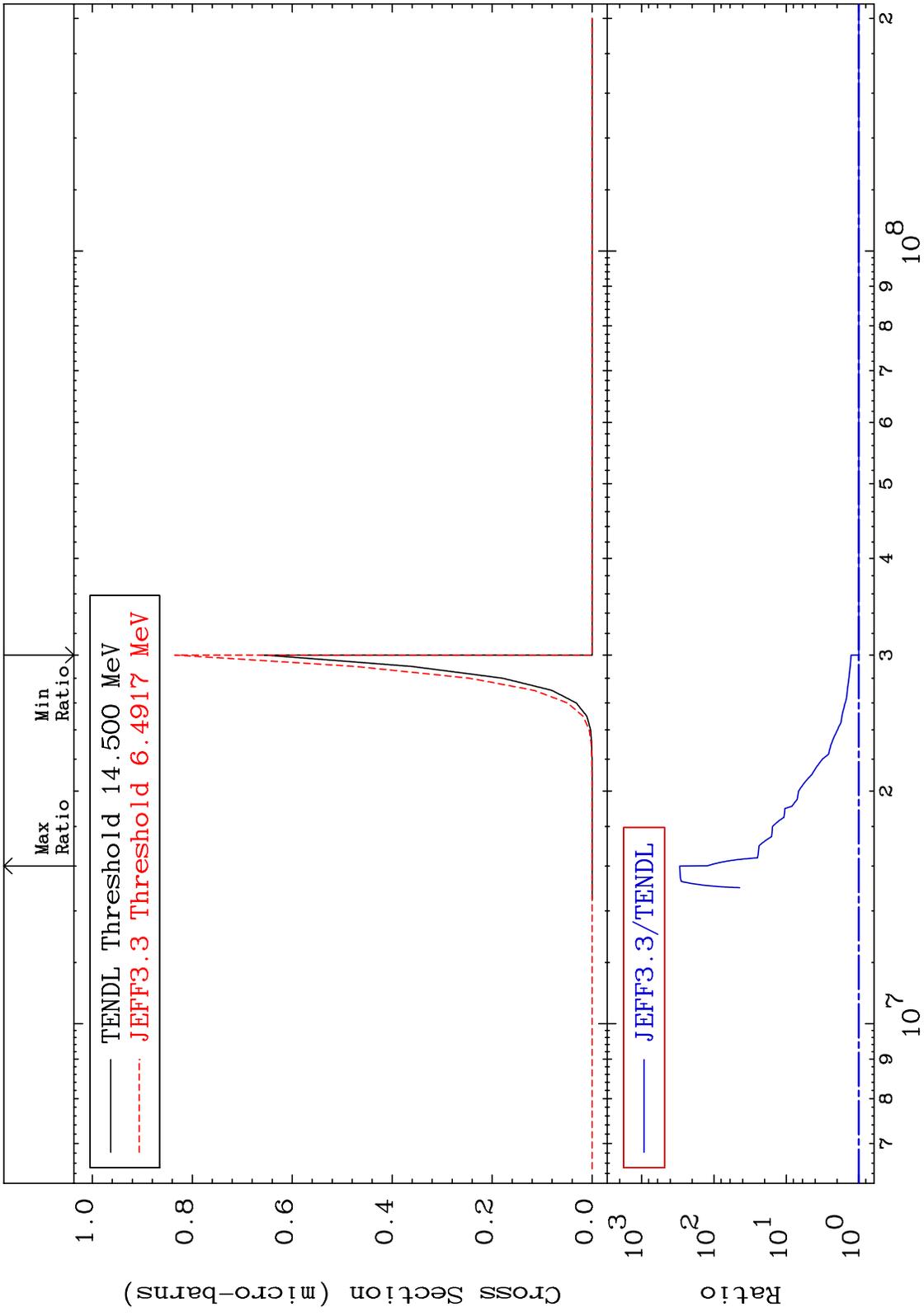
99 Incident Energy (eV) 52-Te-124

MAT 5237 (n,2p):50-Sn-123m1 52-Te-124
 Radionuclide Production Cross Section -0.049 To 0.268 %

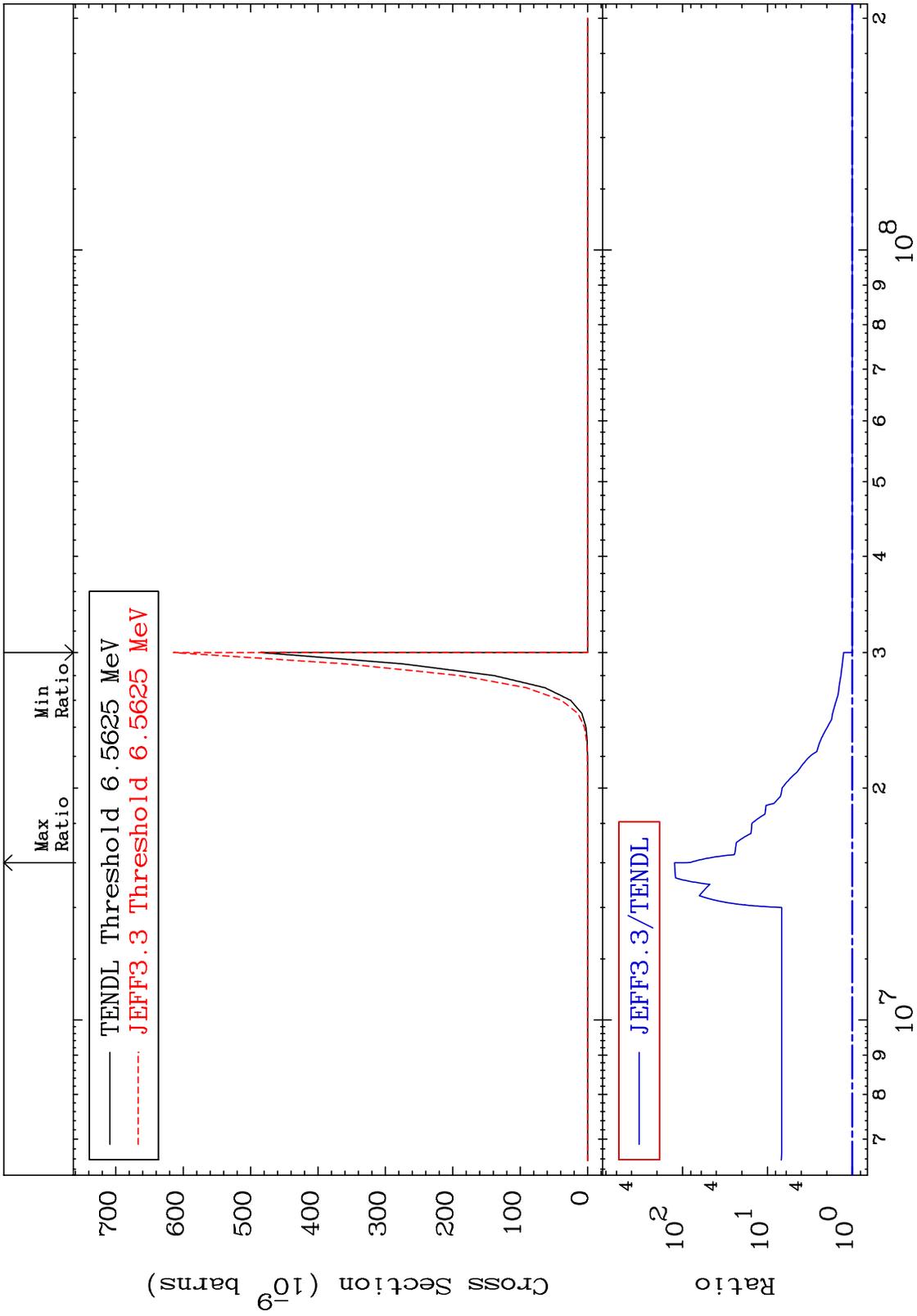


Incident Energy (eV) 52-Te-124

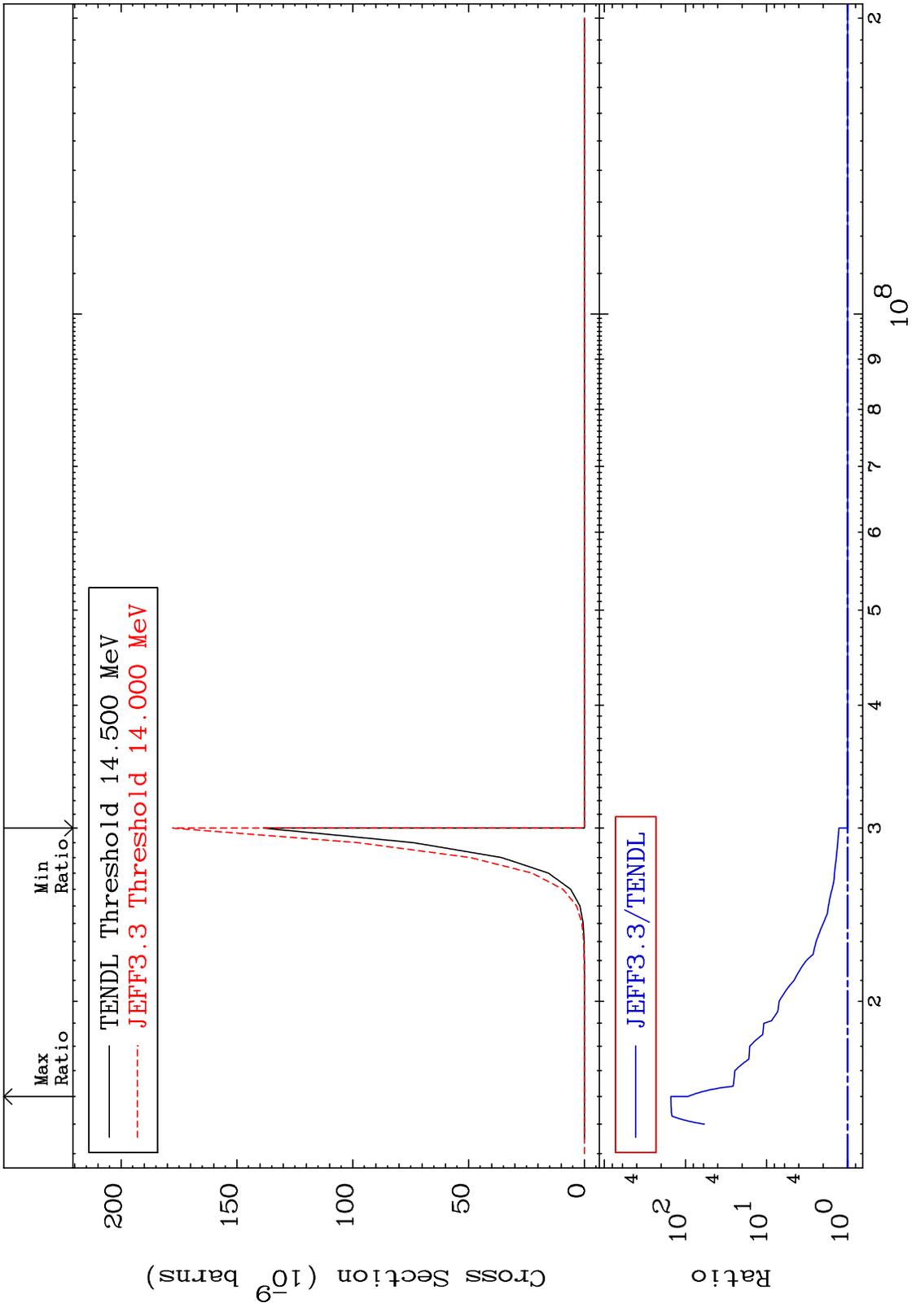
MAT 5237 (n,p) α : 49-In-120g 52-Te-124
 Radionuclide Production Cross Section 0.000 To 9999. %



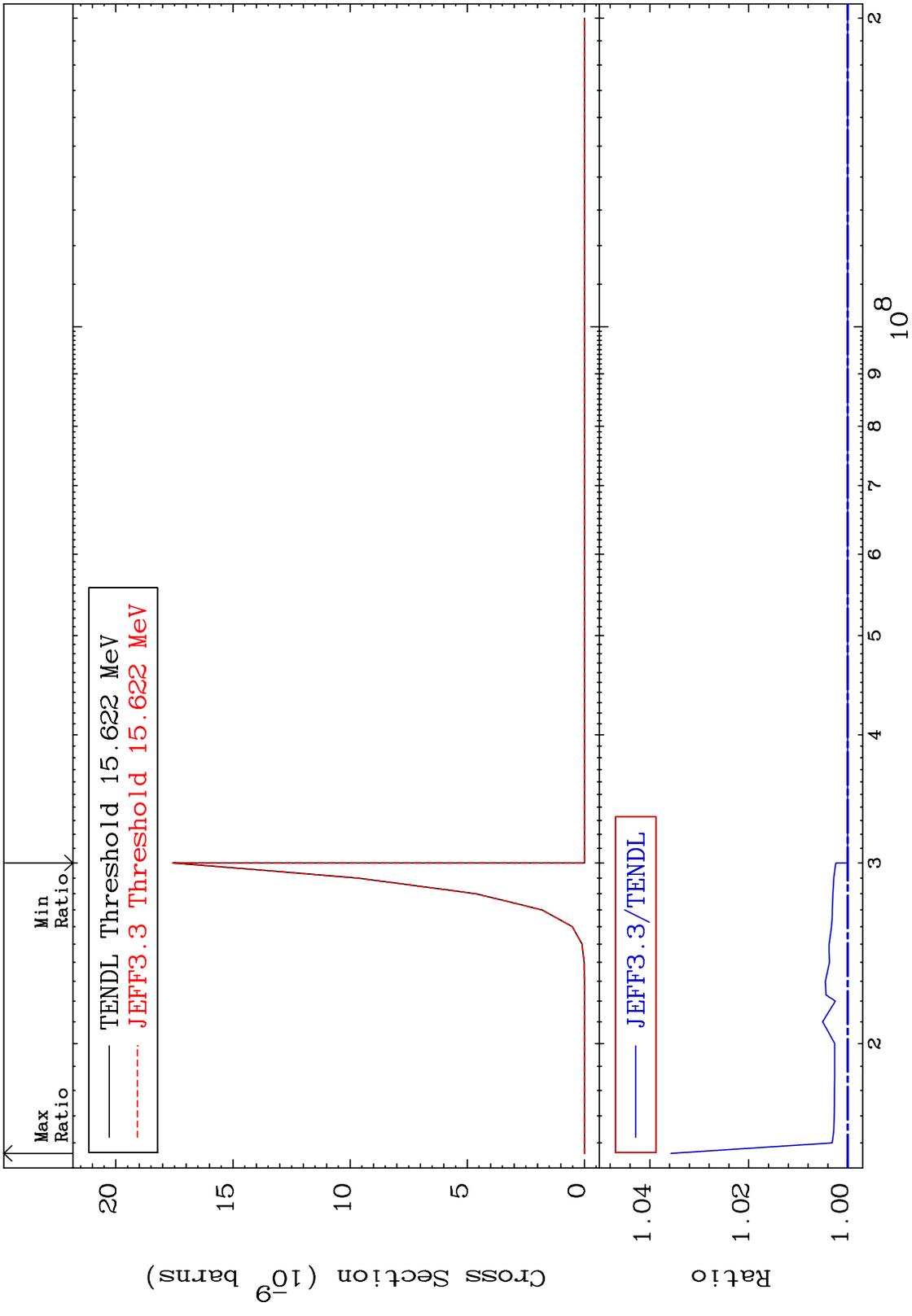
MAT 5237 (n,p) α :49-In-120m1 52-Te-124
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5237 (n,p) α :49-In-120m2 52-Te-124
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5237 (n,p) t:50-Sn-121g 52-Te-124
 Radionuclide Production Cross Section 0.000 To 3.573 %



MAT 5237 (n,p) t:50-Sn-121m1 52-Te-124
 Radionuclide Production Cross Section 0.000 To 0.475 %

