

Program Complot
(Version 2018-1)

by

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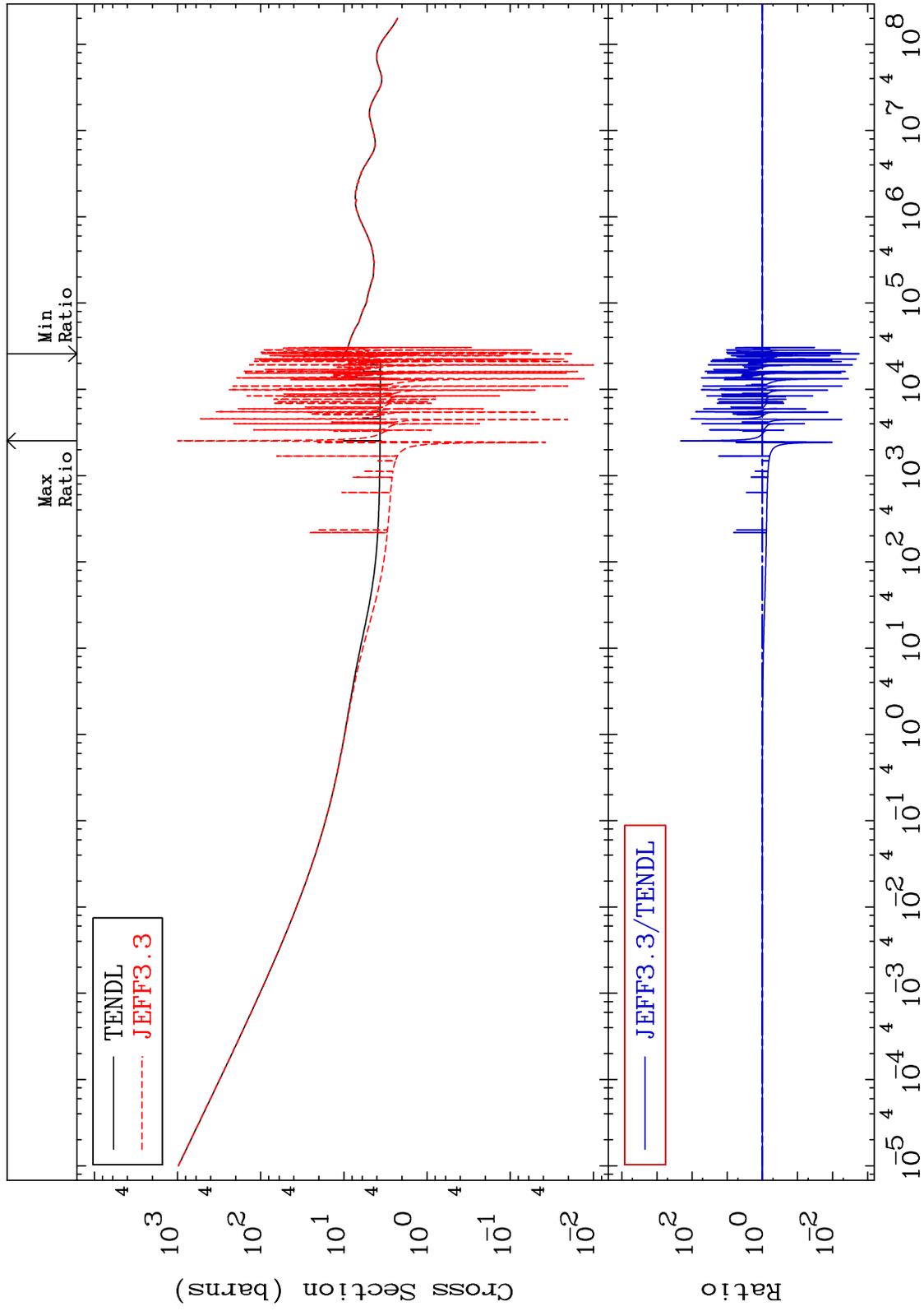
U.S.A.

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6025 Total Cross Section 60-Nd-142 -99.82 To 9999. %

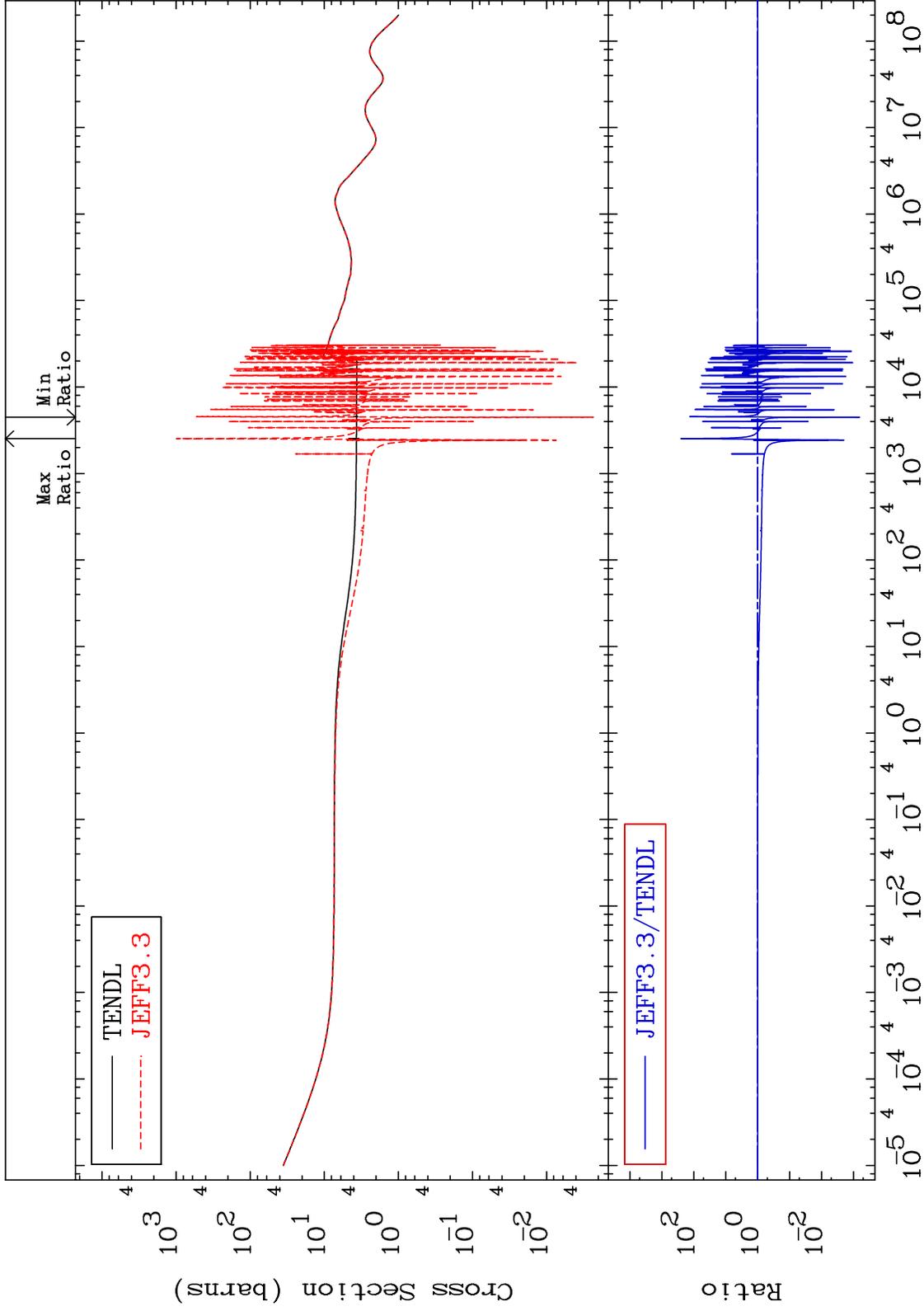


1 Incident Energy (eV) 60-Nd-142

MAT 6025

Elastic
Cross Section

60-Nd-142
-99.94 To 9999. %



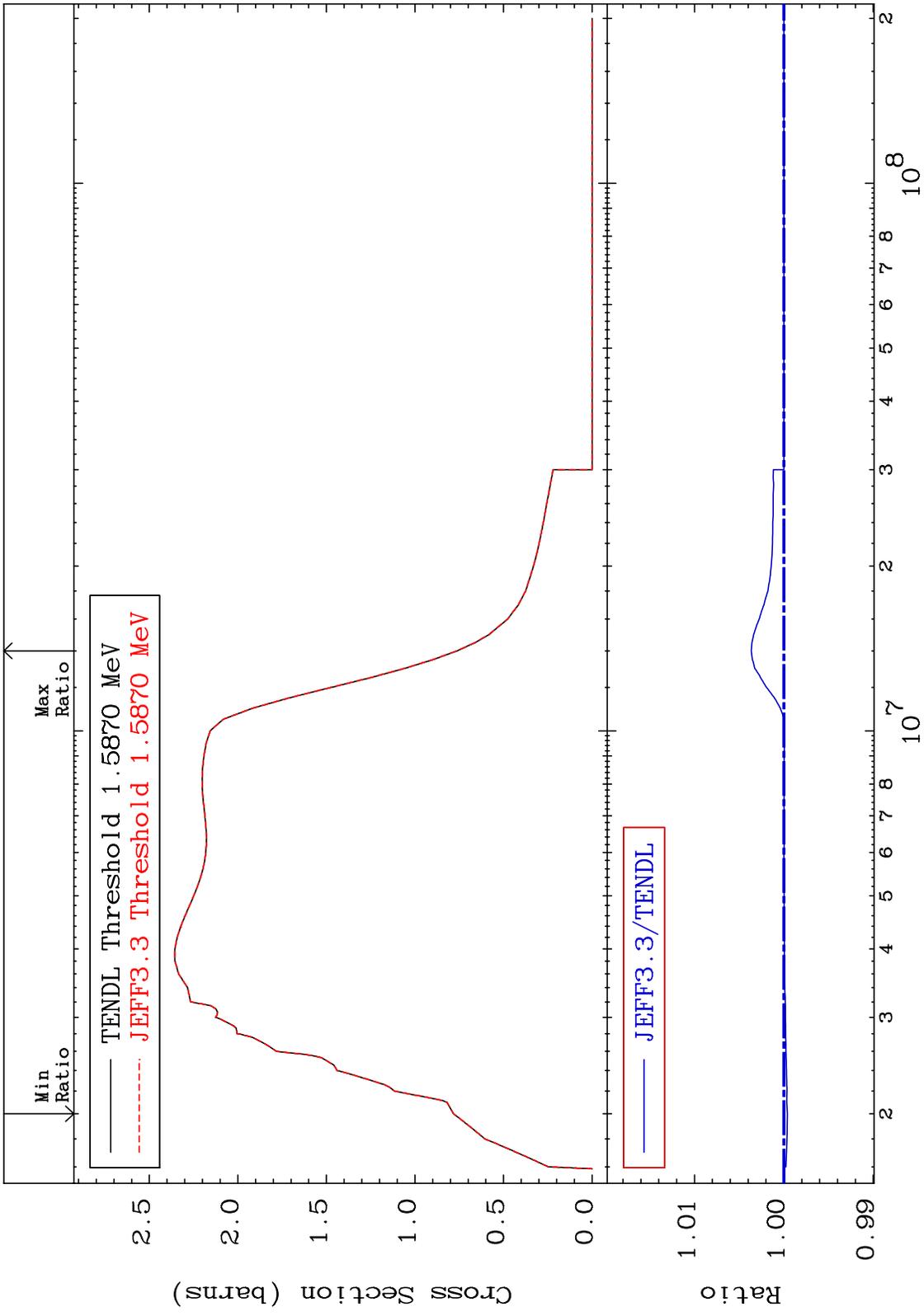
2

Incident Energy (eV)

60-Nd-142

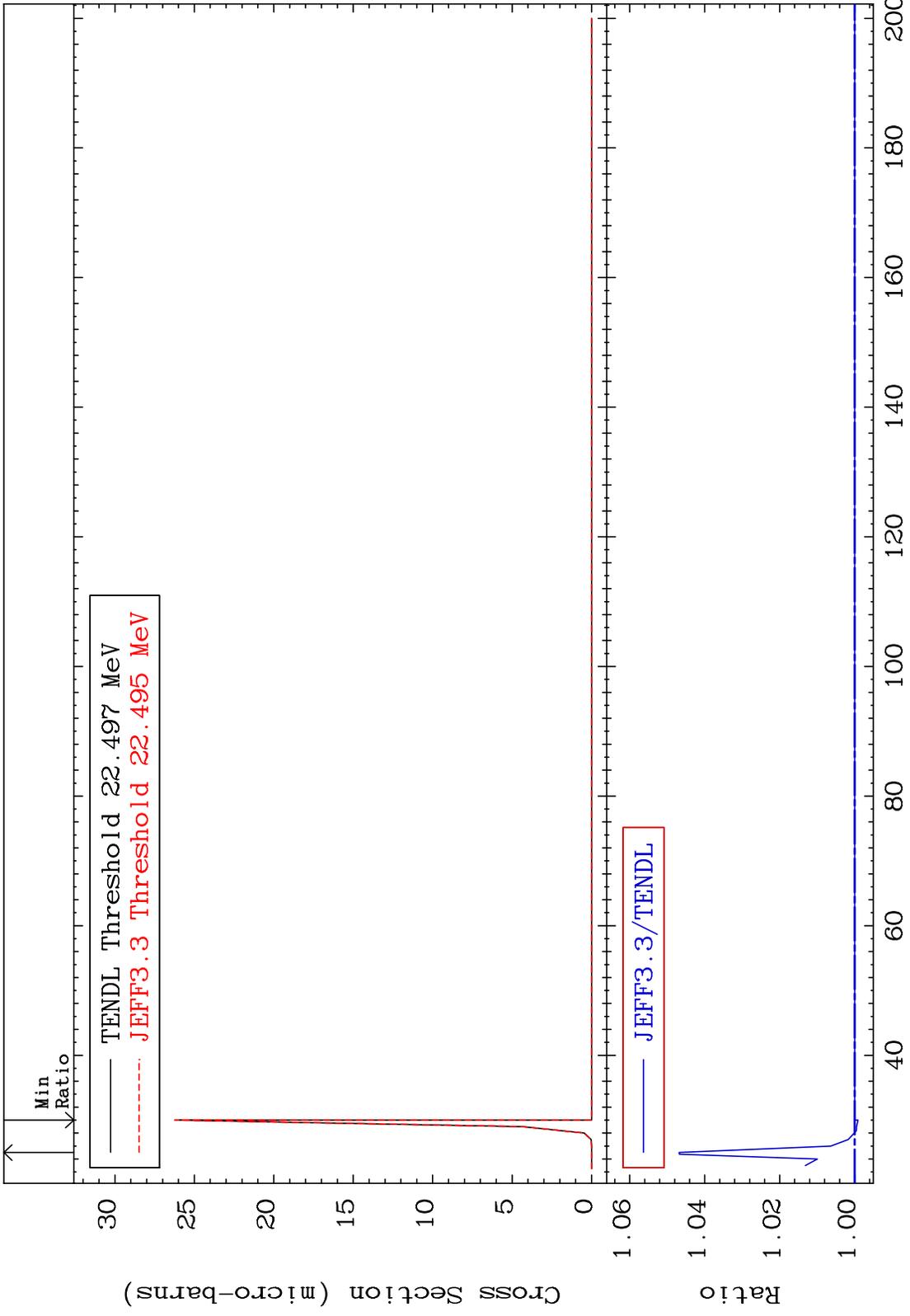
MAT 6025 60-Nd-142 -0.039 To 0.365 %

Inelastic Cross Section

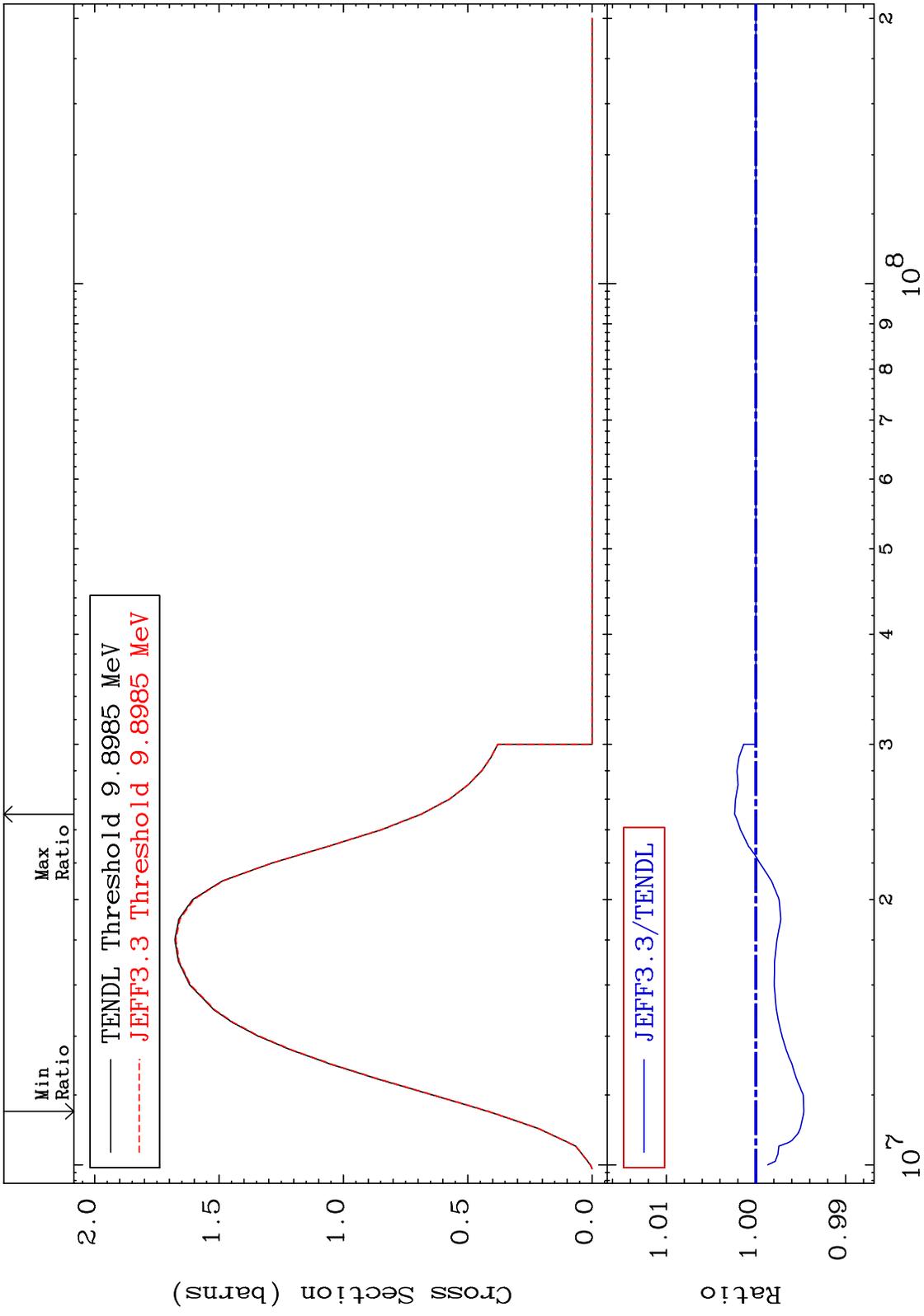


3 60-Nd-142

MAT 6025 (n,2n) d 60-Nd-142
Cross Section -0.091 To 4.680 %

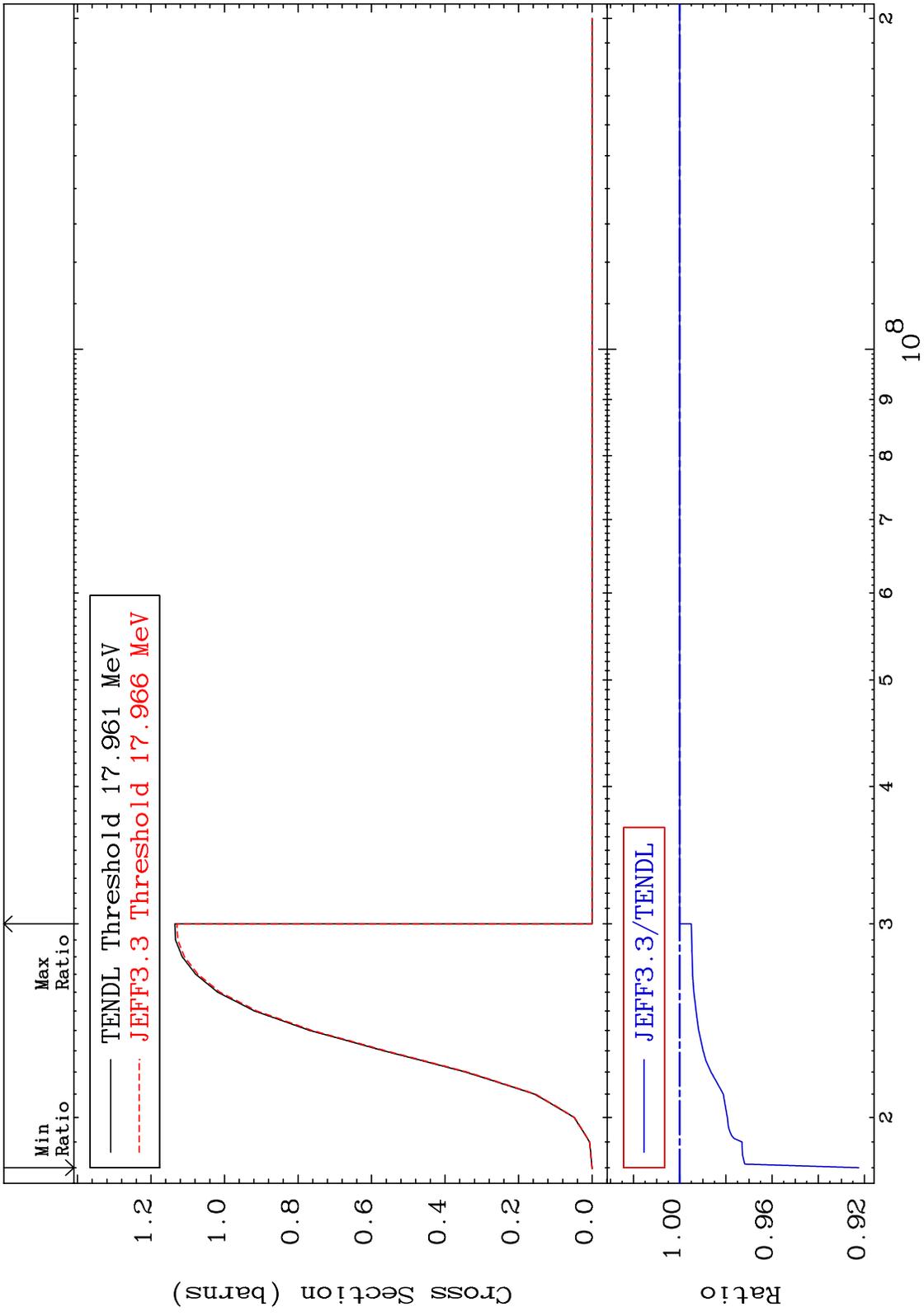


MAT 6025 $(n,2n)$ Cross Section $^{60}\text{Nd-142}$ -0.535 To 0.237%

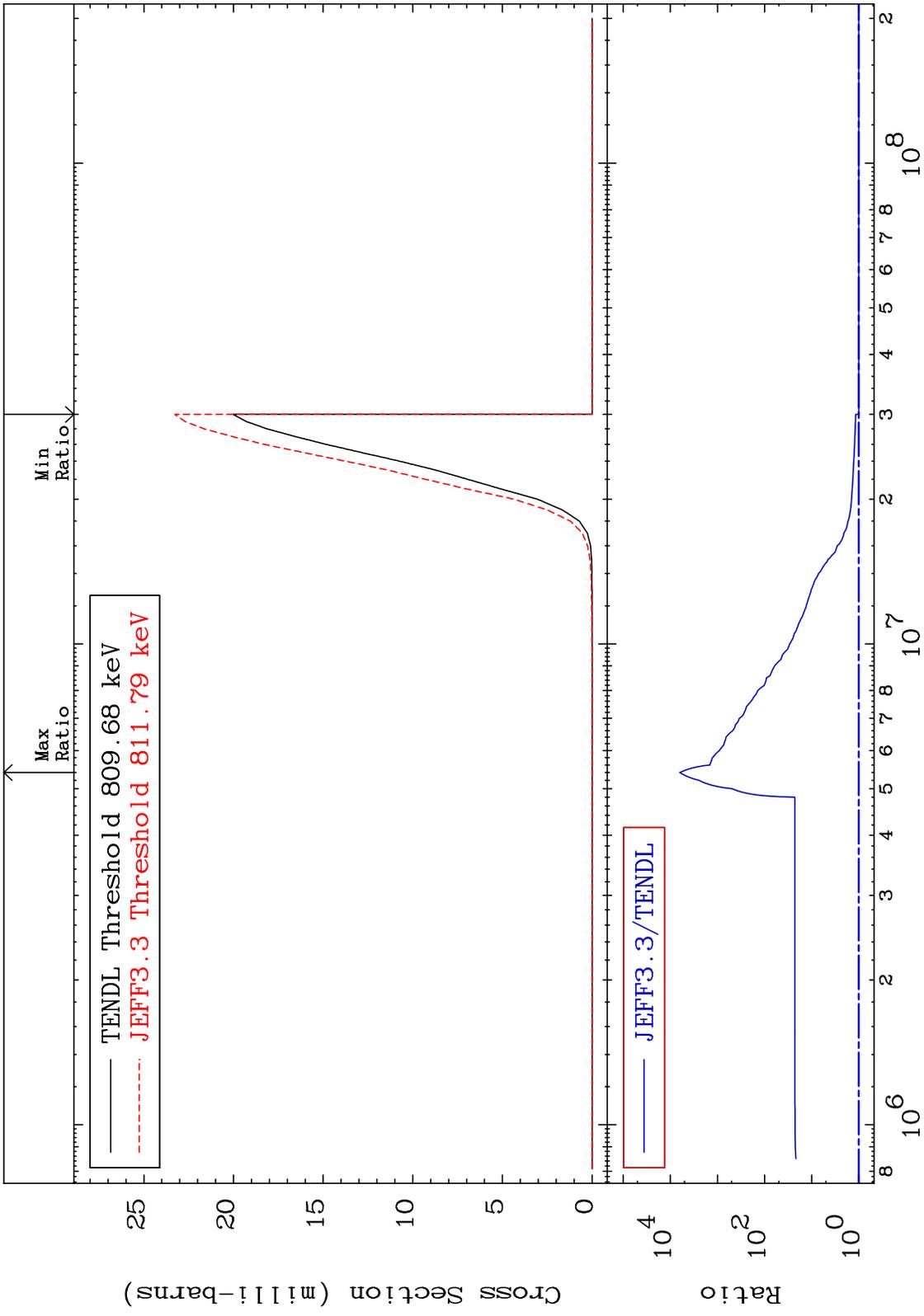


$^{60}\text{Nd-142}$

MAT 6025 $(n, 3n)$ Cross Section $^{60}\text{Nd-142}$ -7.754 To 0.000 %

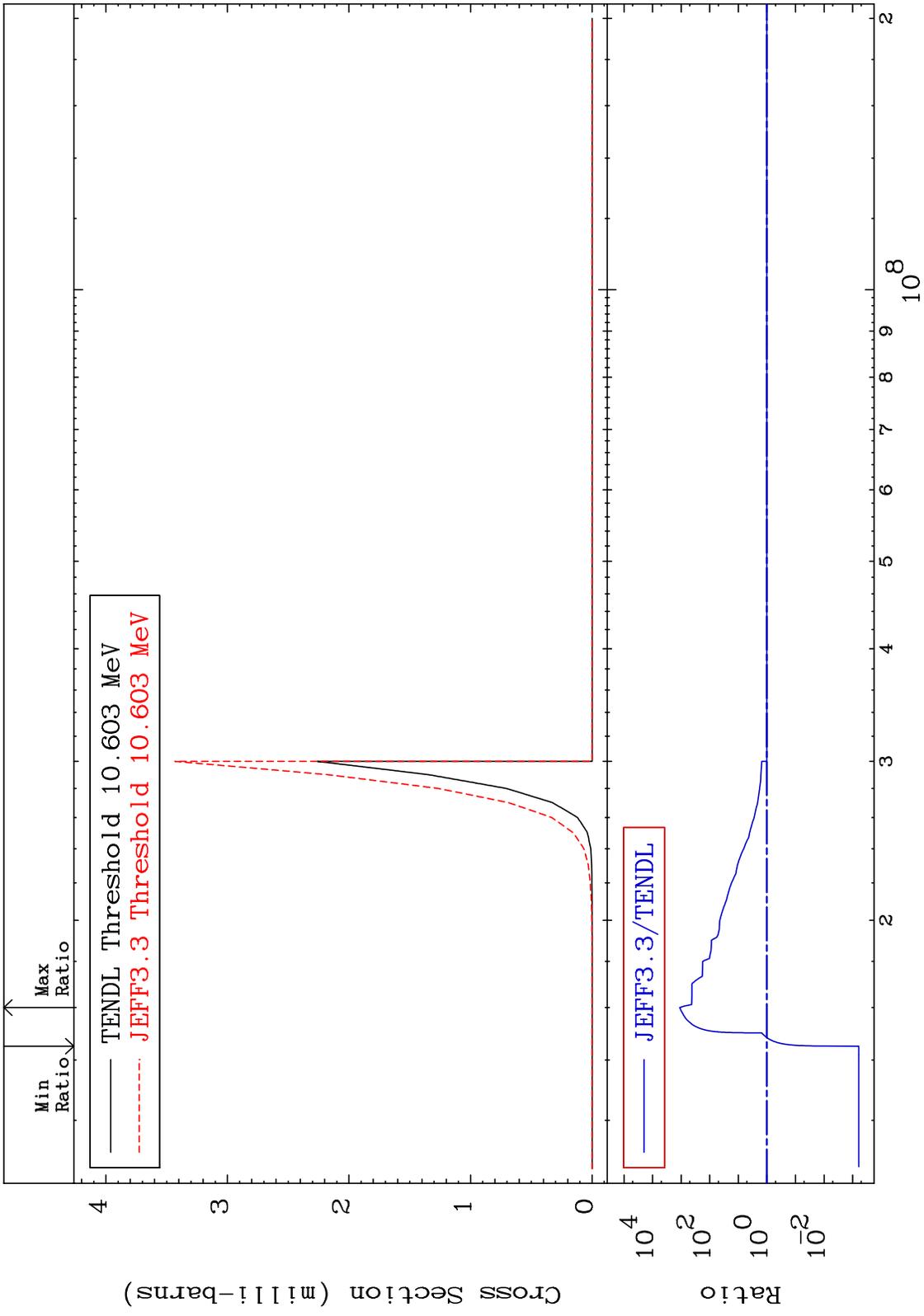


MAT 6025 $(n, n') \alpha$ Cross Section 60-Nd-142 To 9999. %

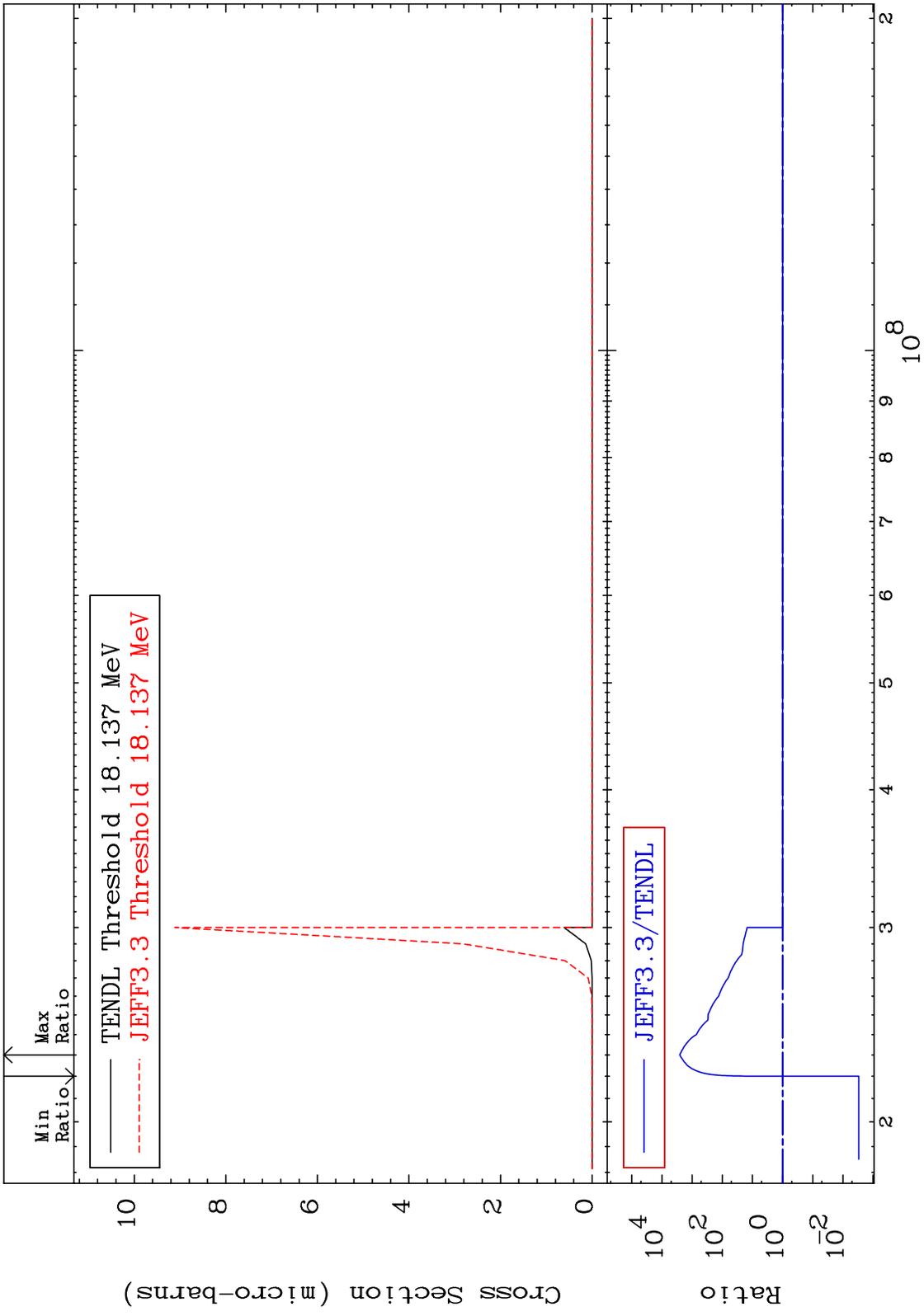


60-Nd-142

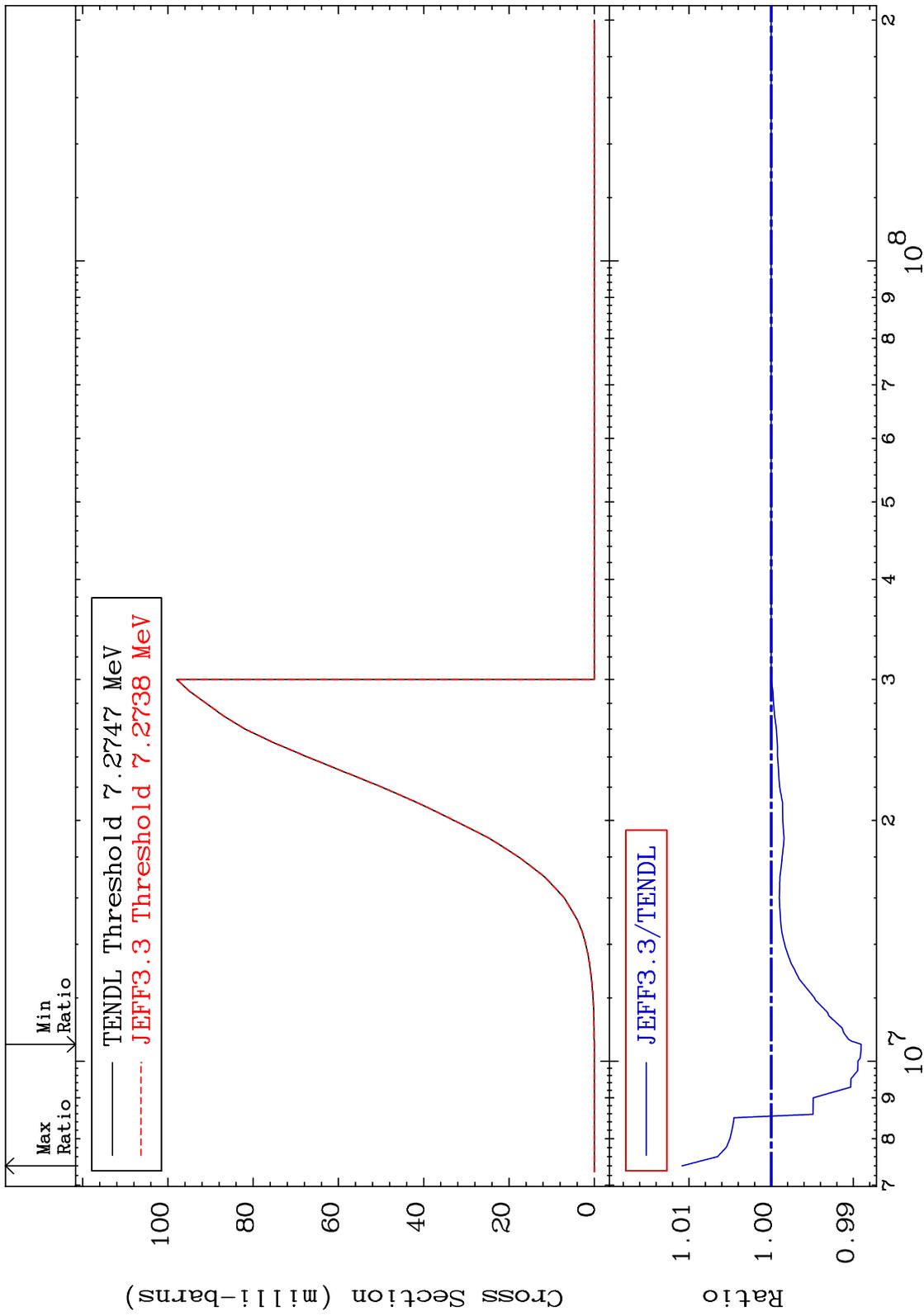
MAT 6025 $(n, 2n) \alpha$ 60-Nd-142
 Cross Section -99.94 To 9999. %



MAT 6025 (n,3n) α 60-Nd-142
Cross Section -99.70 To 9999. %

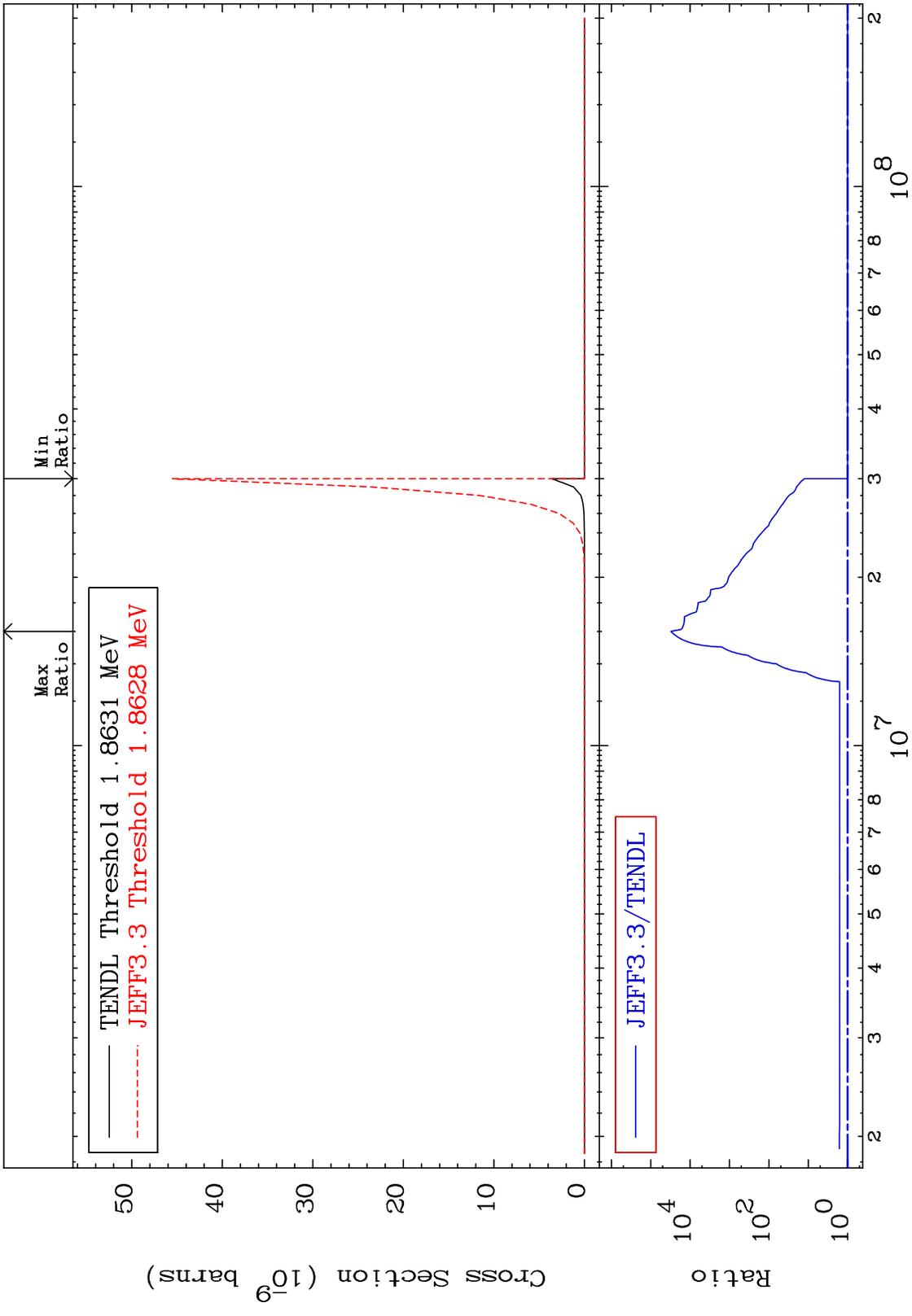


MAT 6025 (n,n') p 60-Nd-142
Cross Section -1.096 To 1.085 %

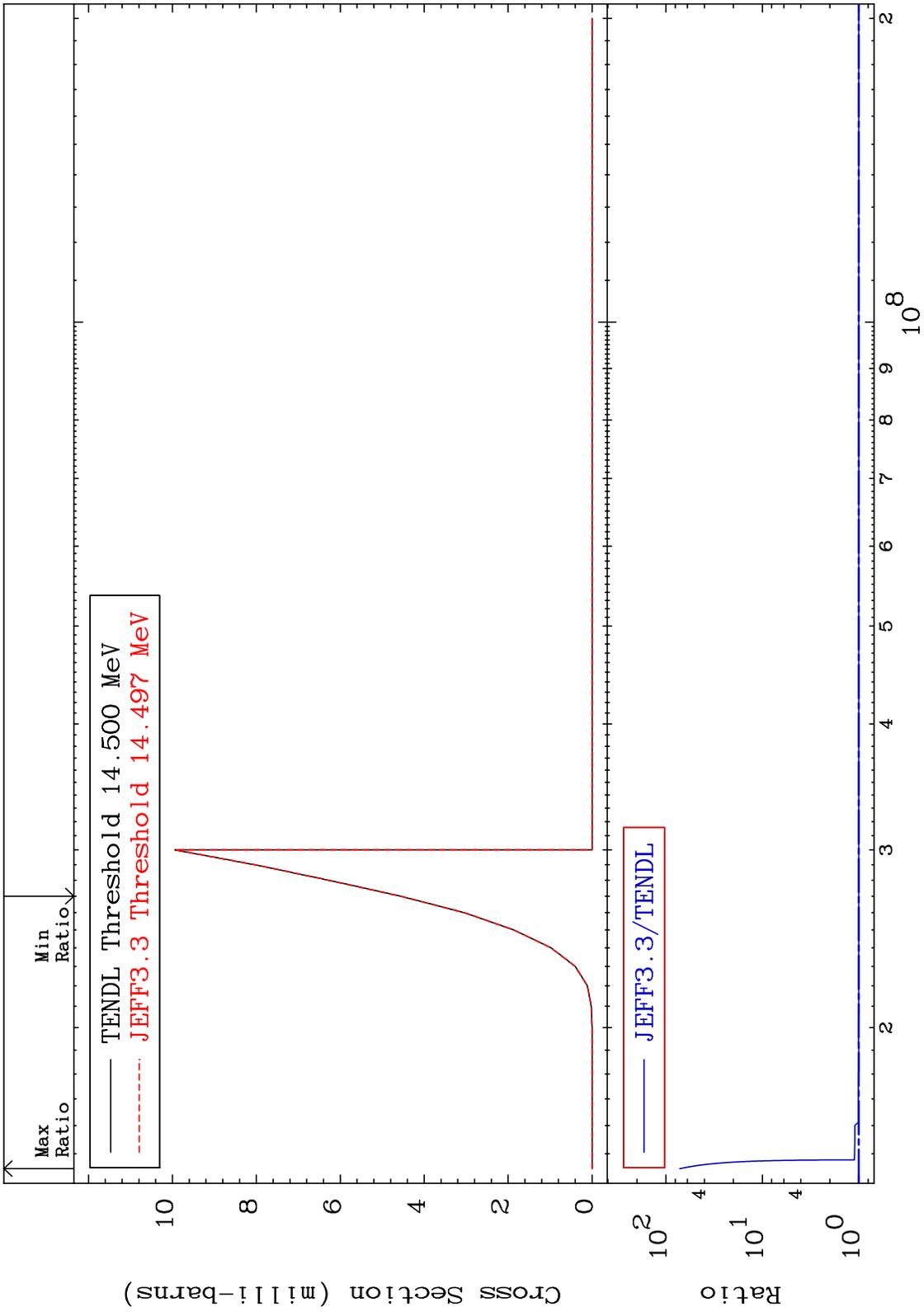


60-Nd-142

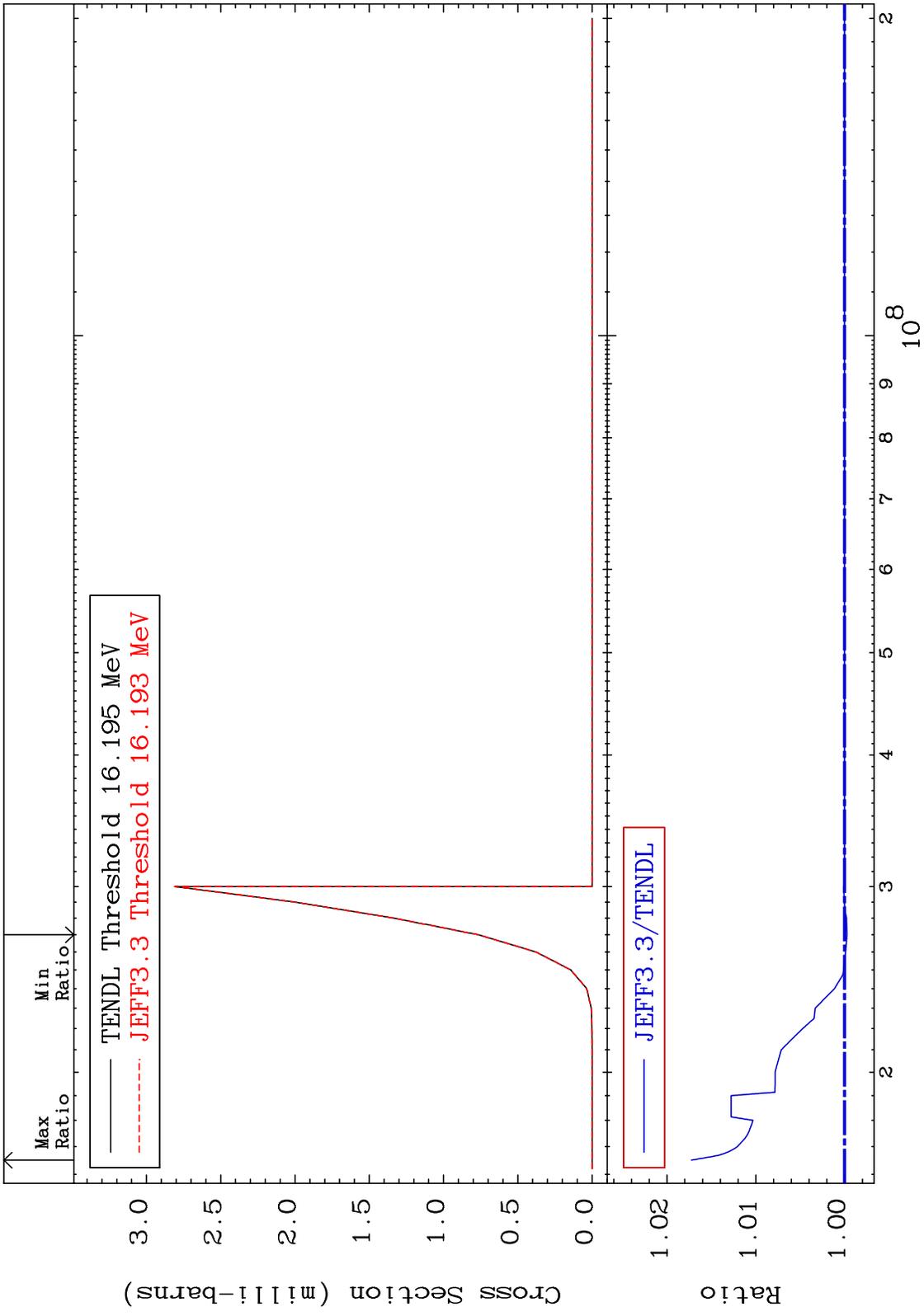
MAT 6025 $(n, n') \ 2\alpha$ $^{60}\text{Nd-142}$ $^{60}\text{Nd-142}$
 Cross Section To 9999. %



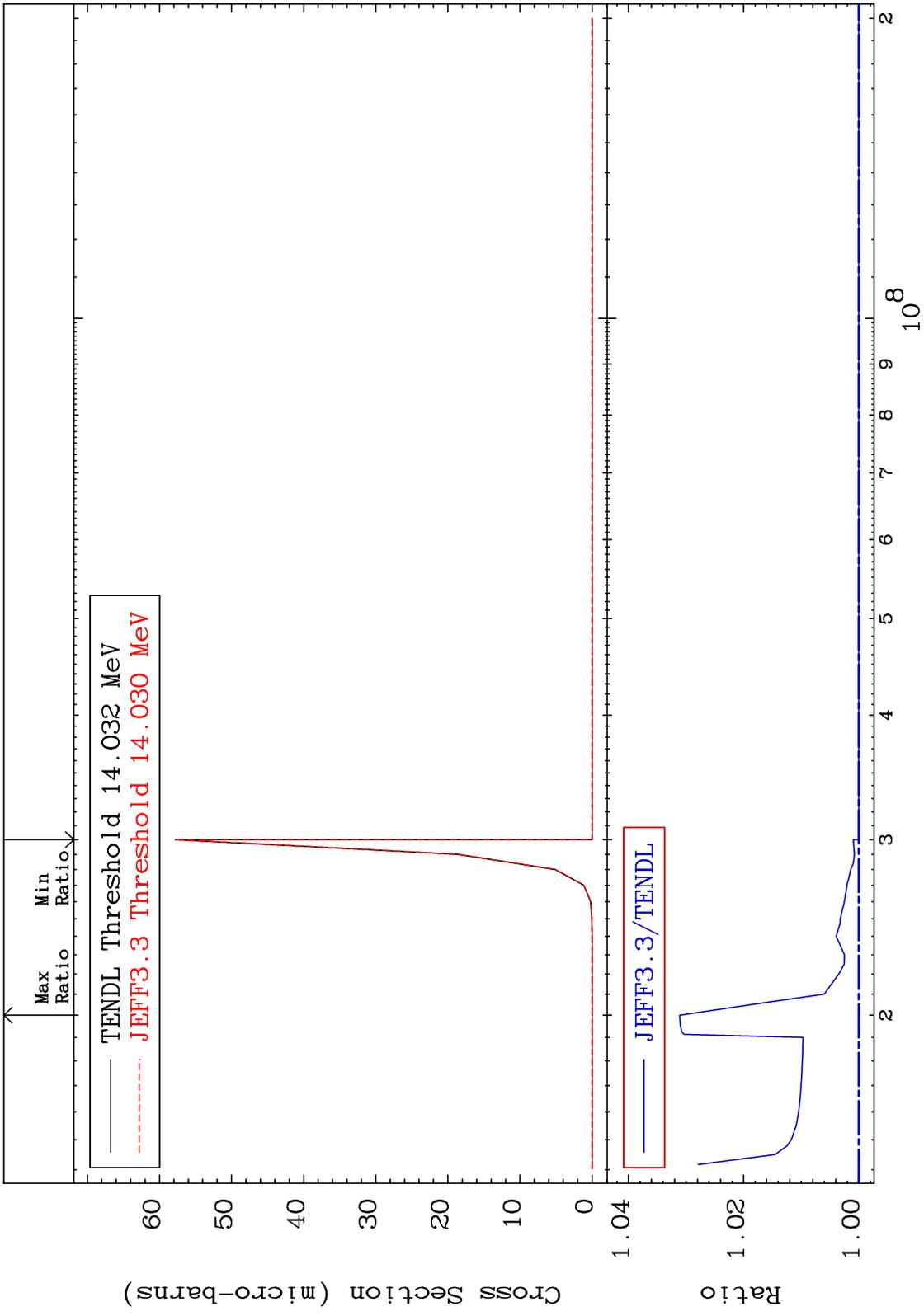
MAT 6025 (n,n') d 60-Nd-142
 Cross Section -0.017 To 7099. %



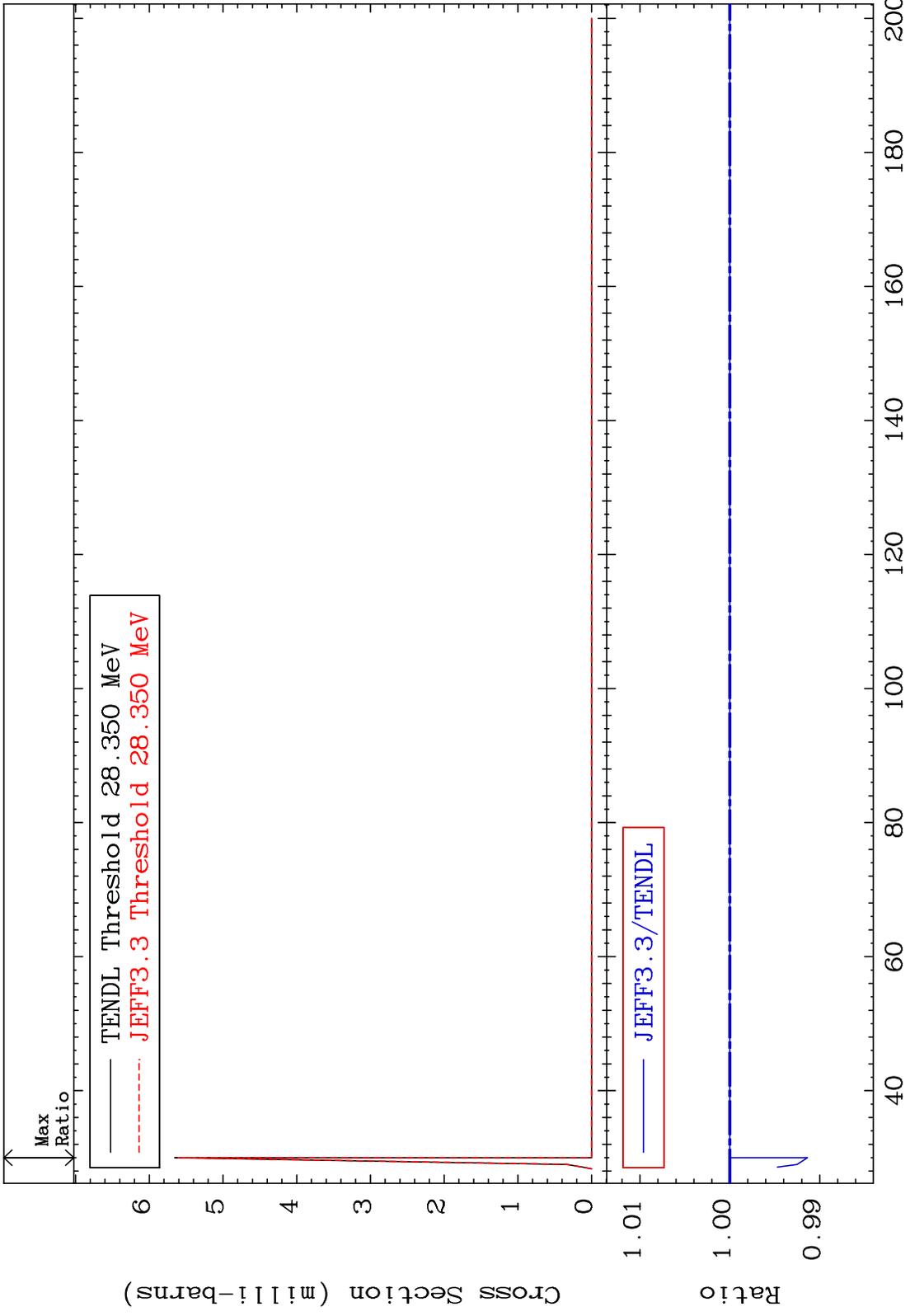
MAT 6025 (n,n') t 60-Nd-142
 Cross Section -0.027 To 1.724 %



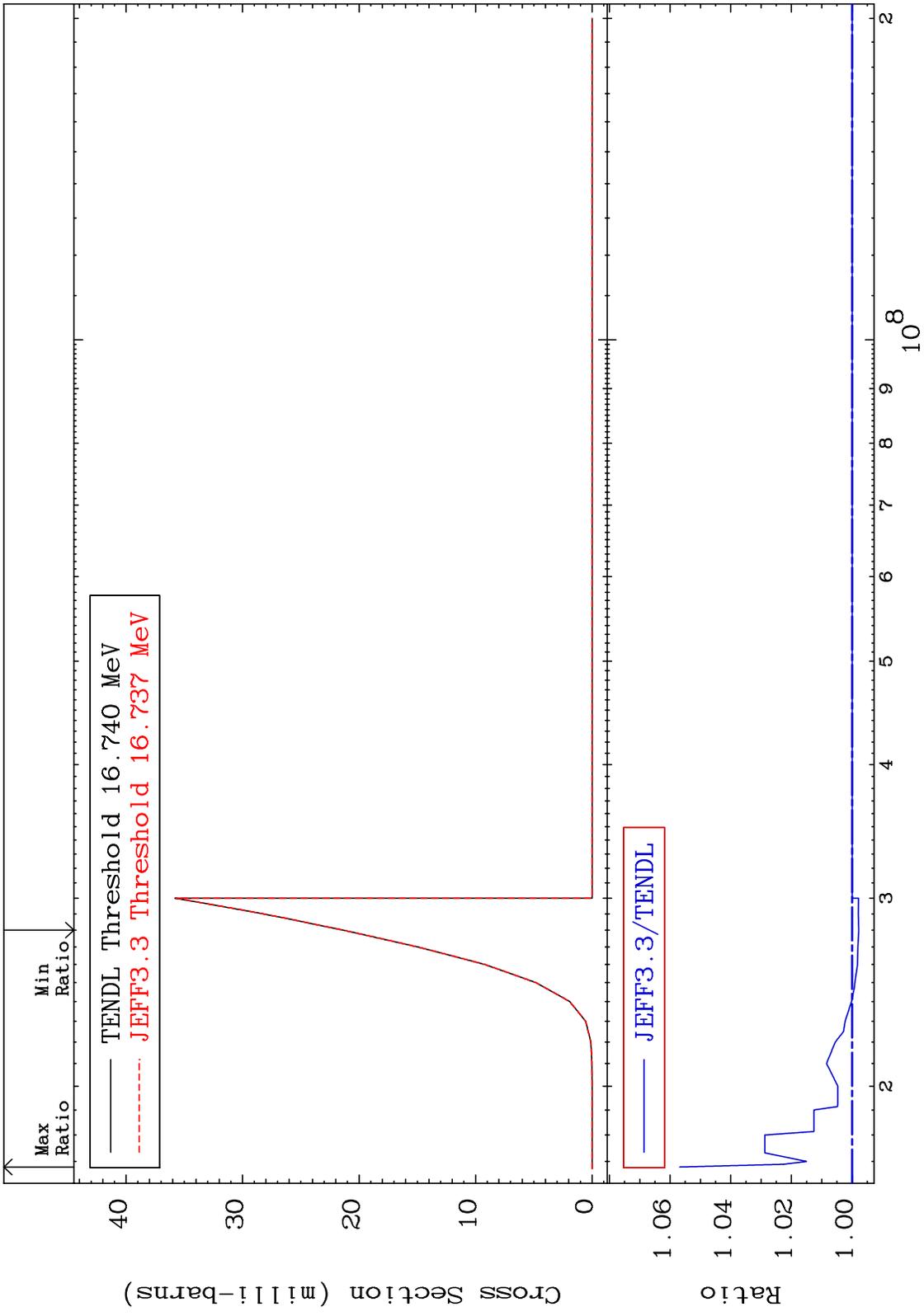
MAT 6025 (n, n') He-3 60-Nd-142
 Cross Section 0.000 To 3.110 %



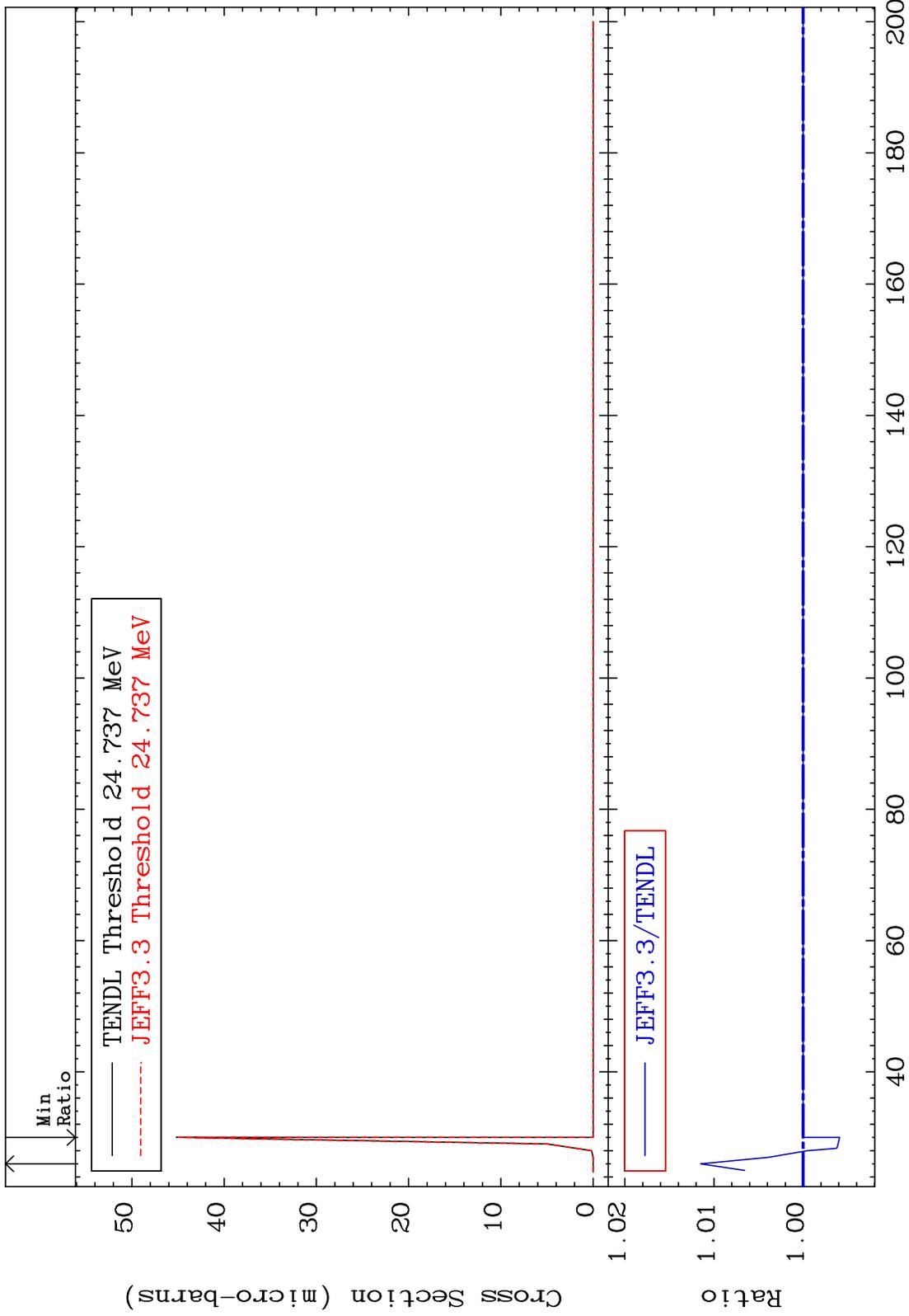
MAT 6025 (n,4n) Cross Section 60-Nd-142 -0.863 To 0.000 %



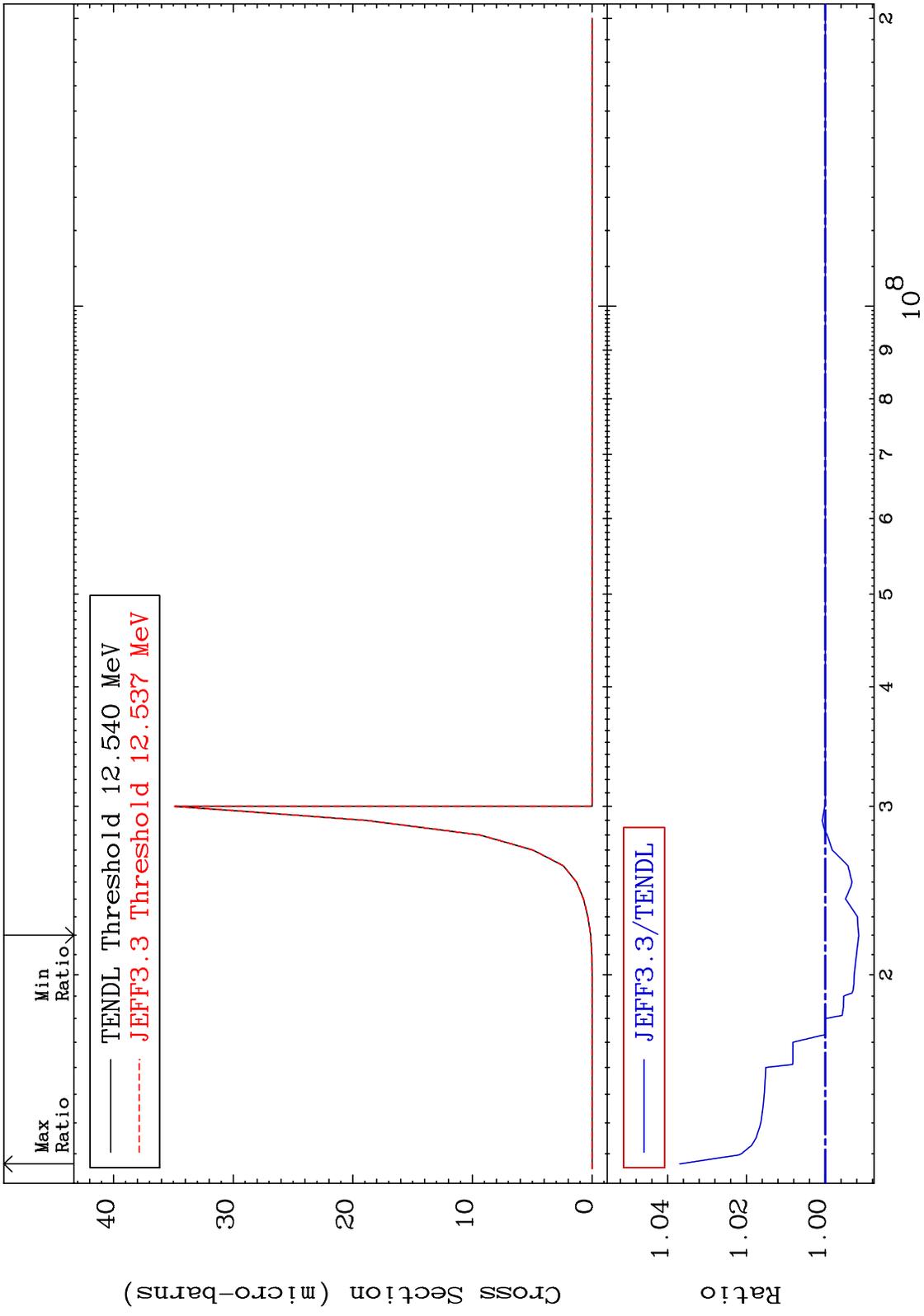
MAT 6025 (n,2n) p 60-Nd-142
 Cross Section -0.221 To 5.681 %



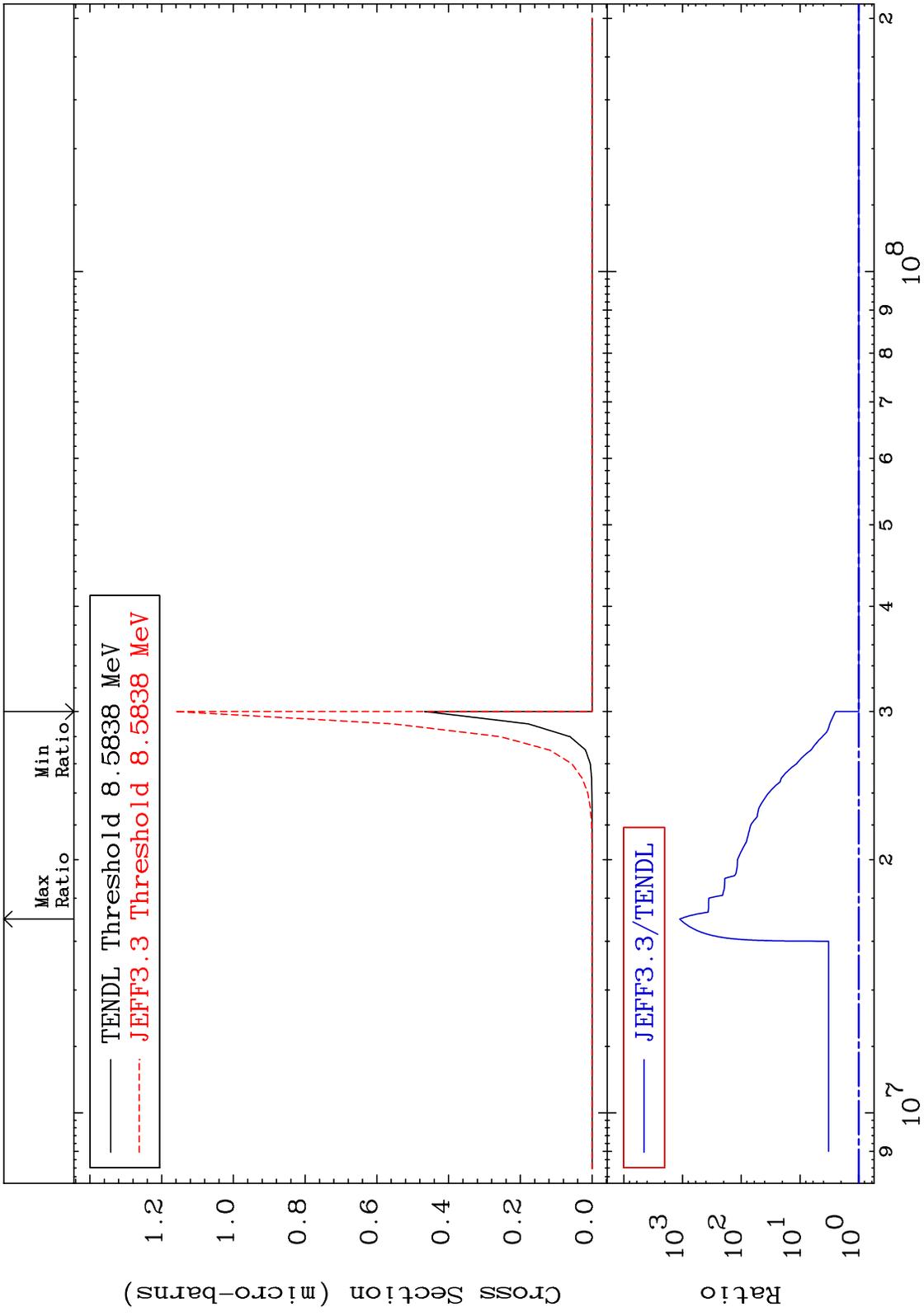
MAT 6025 (n,3n) p 60-Nd-142
Cross Section -0.408 To 1.150 %



MAT 6025 (n,2n) p 60-Nd-142
 Cross Section -0.853 To 3.691 %

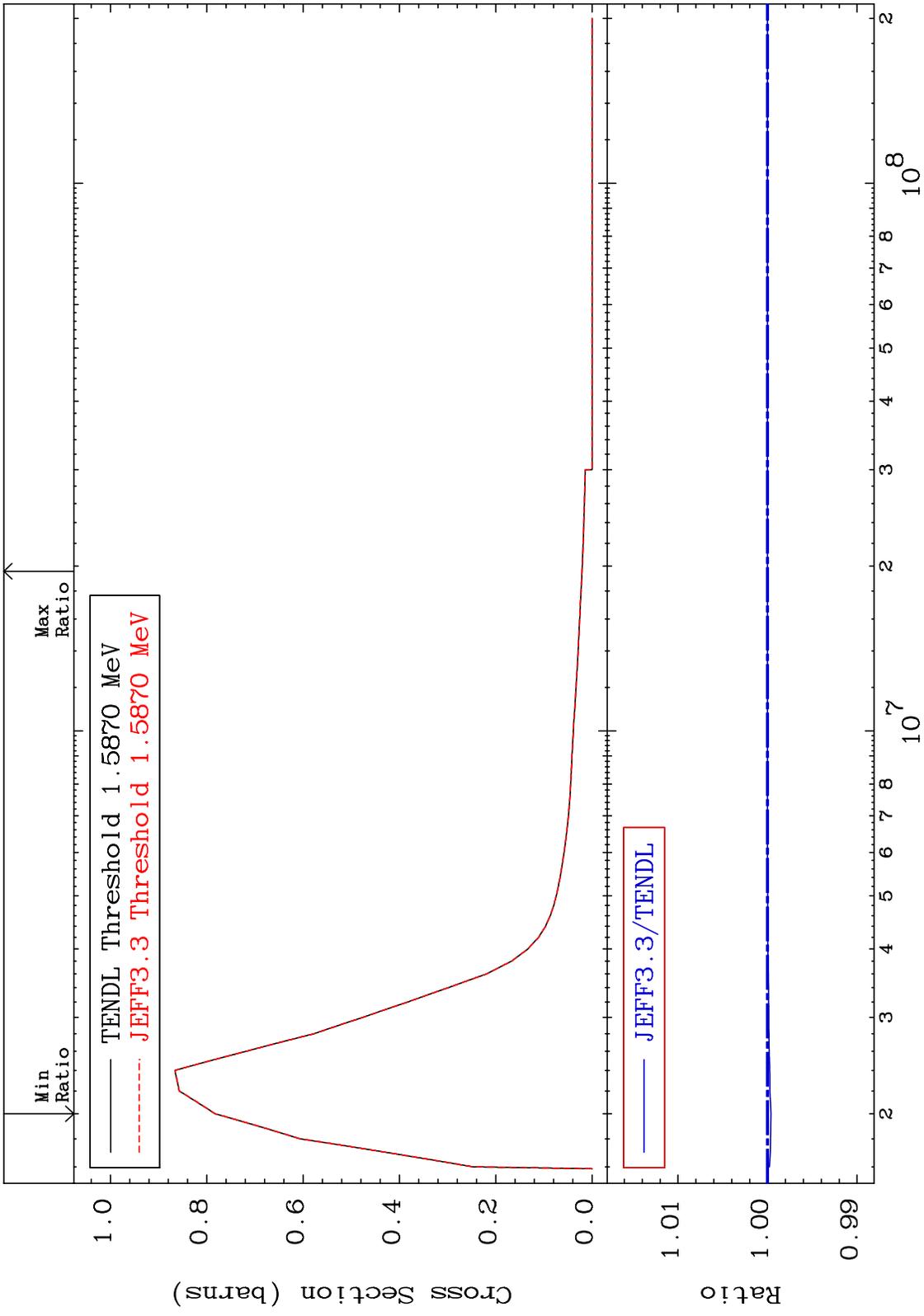


MAT 6025 (n,n') p α 60-Nd-142
 Cross Section 0.000 To 9999. %

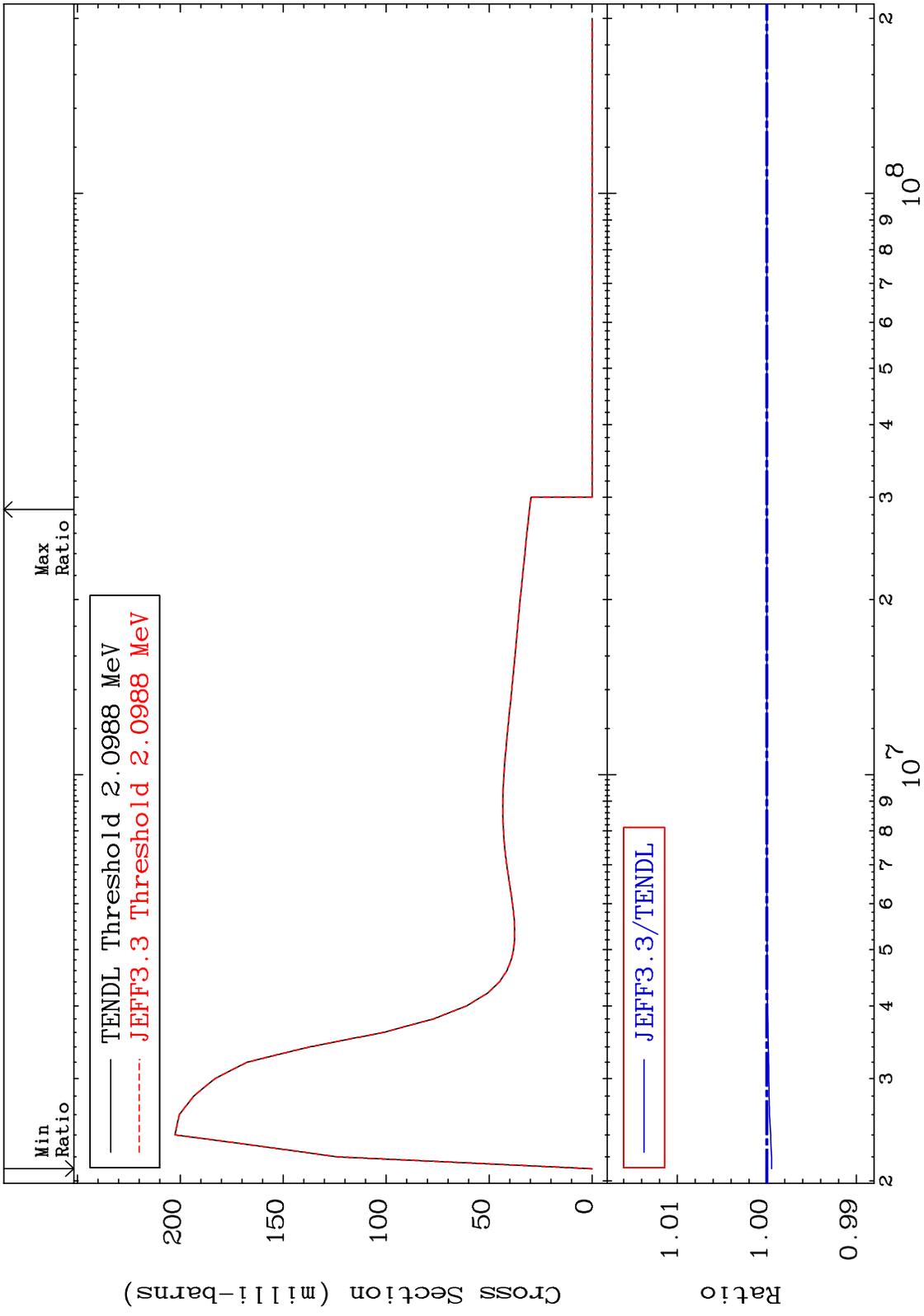


19 60-Nd-142

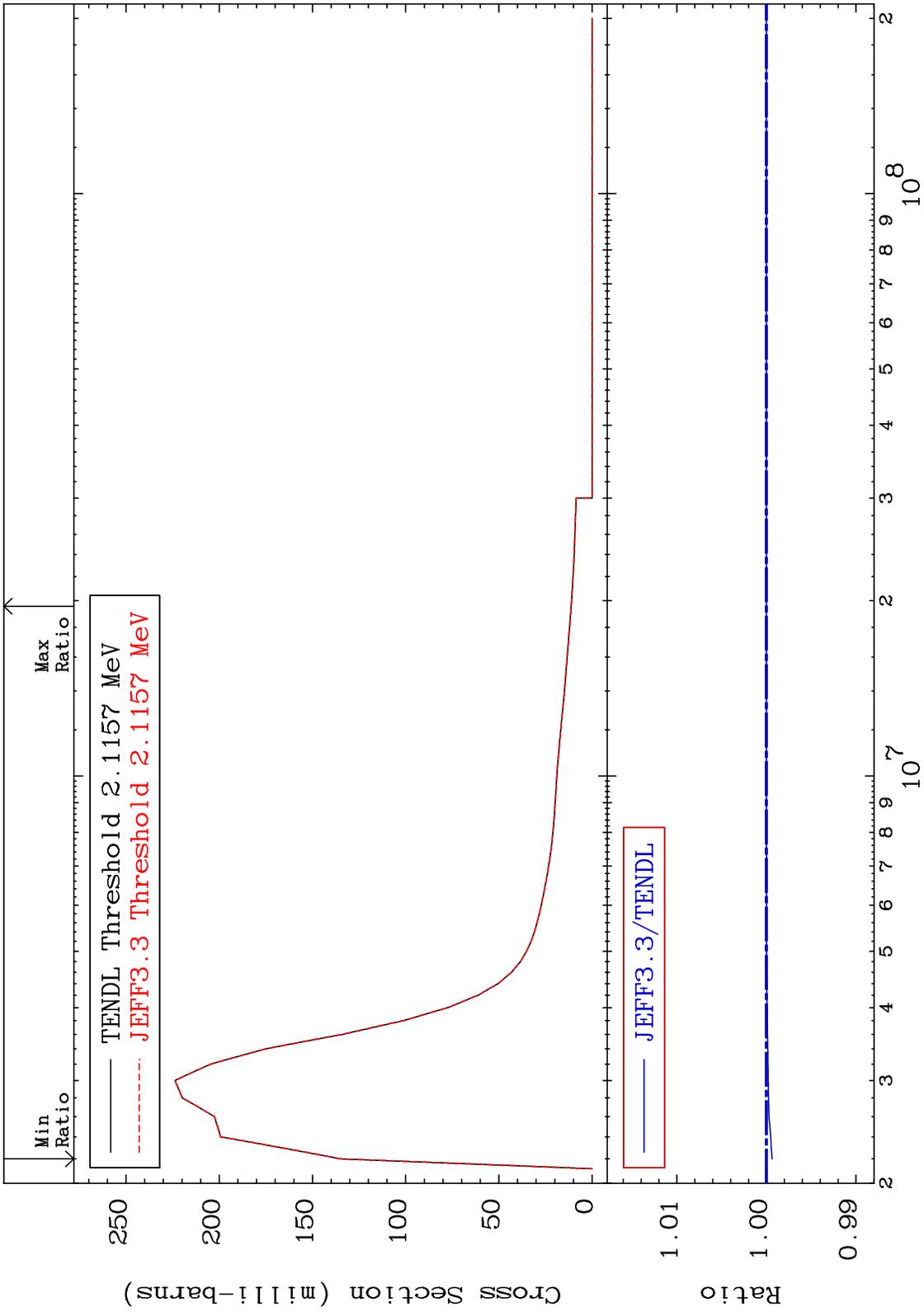
MAT 6025 MT= 51 (n,n') Level Cross Section 60-Nd-142 -0.039 To 0.000 %



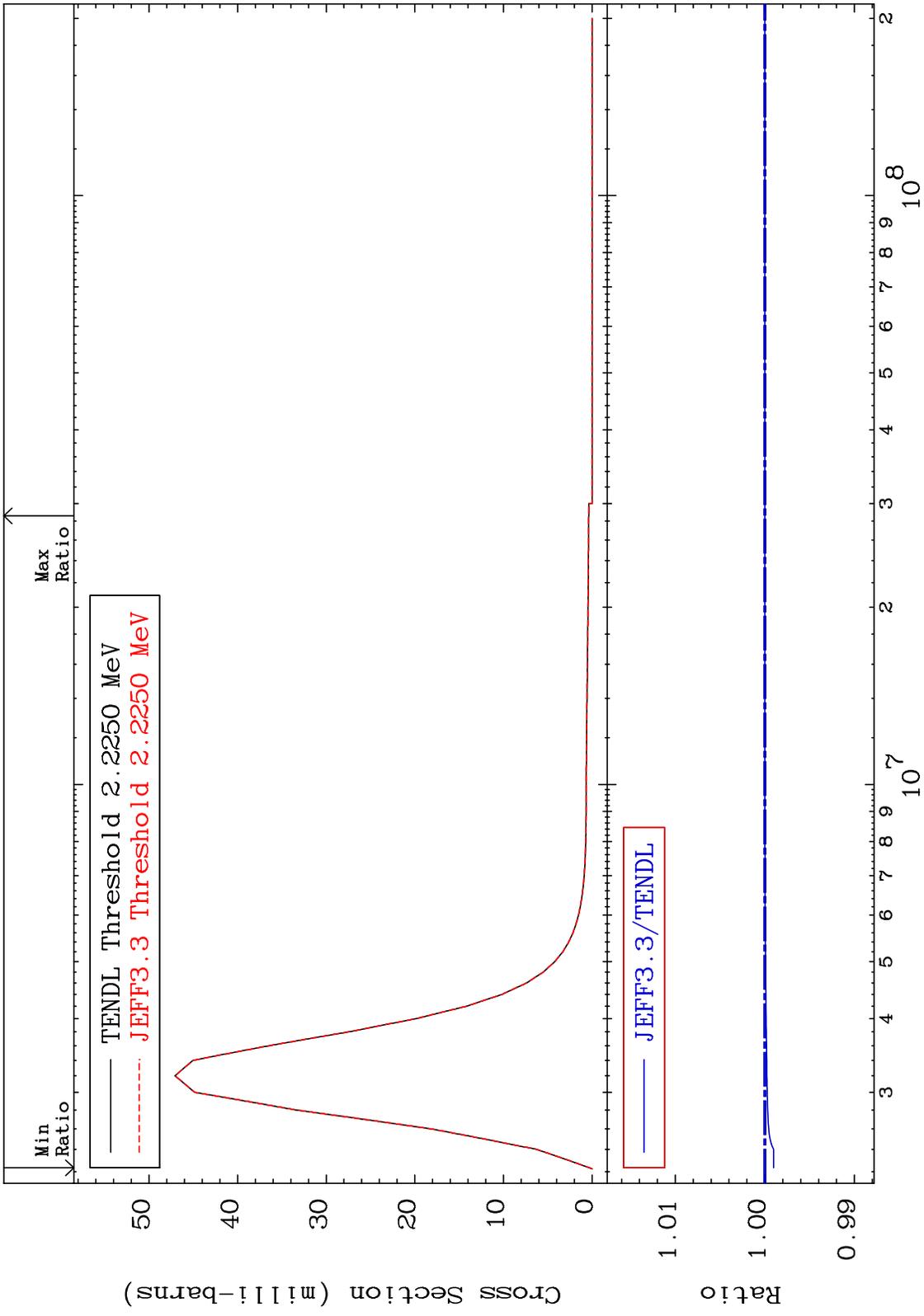
MAT 6025 MT= 52 (n, n') Level Cross Section 60-Nd-142 -0.053 To 0.000 %



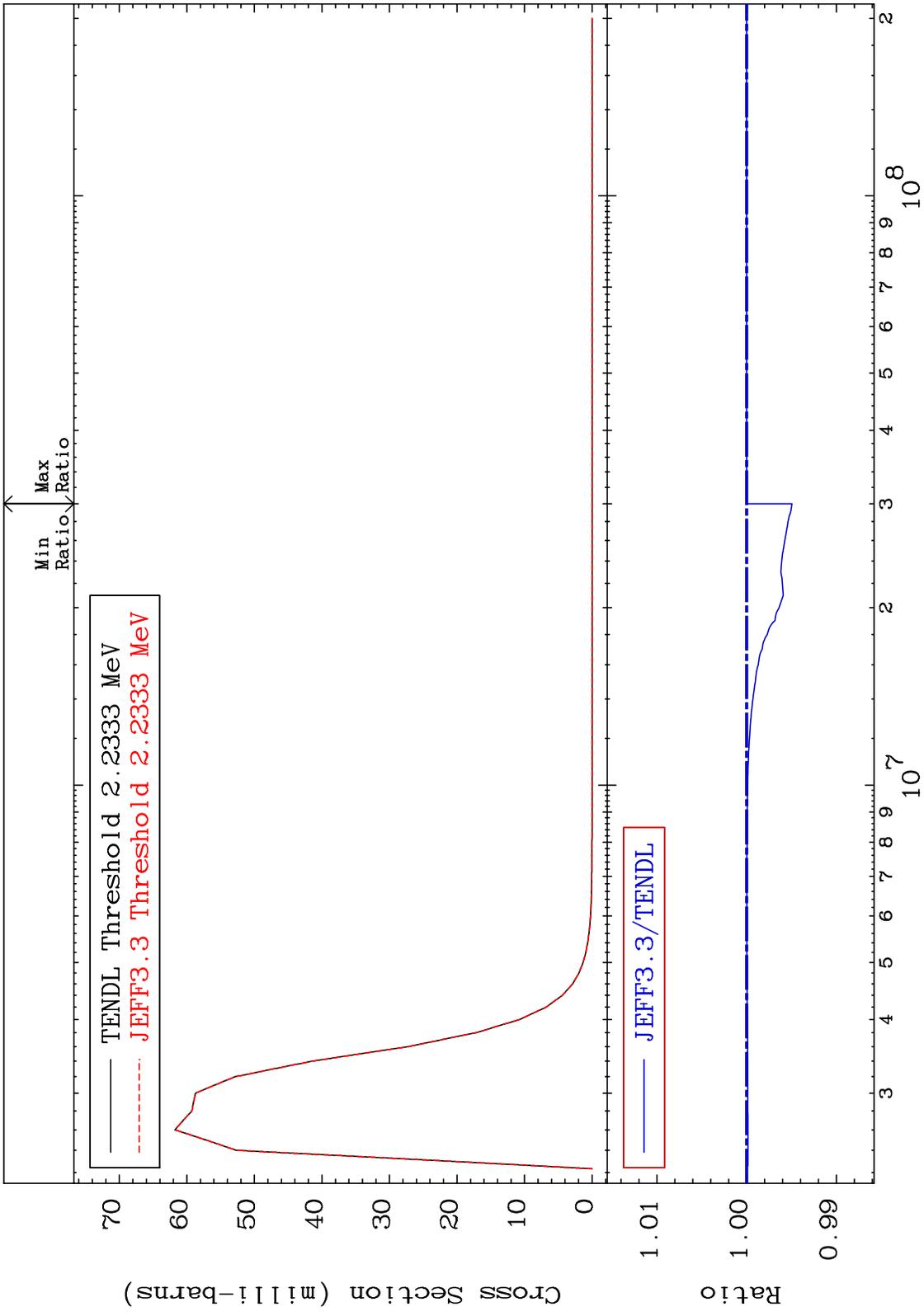
MAT 6025 MT= 53 (n,n') Level Cross Section 60-Nd-142
 -0.063 To 0.000 %



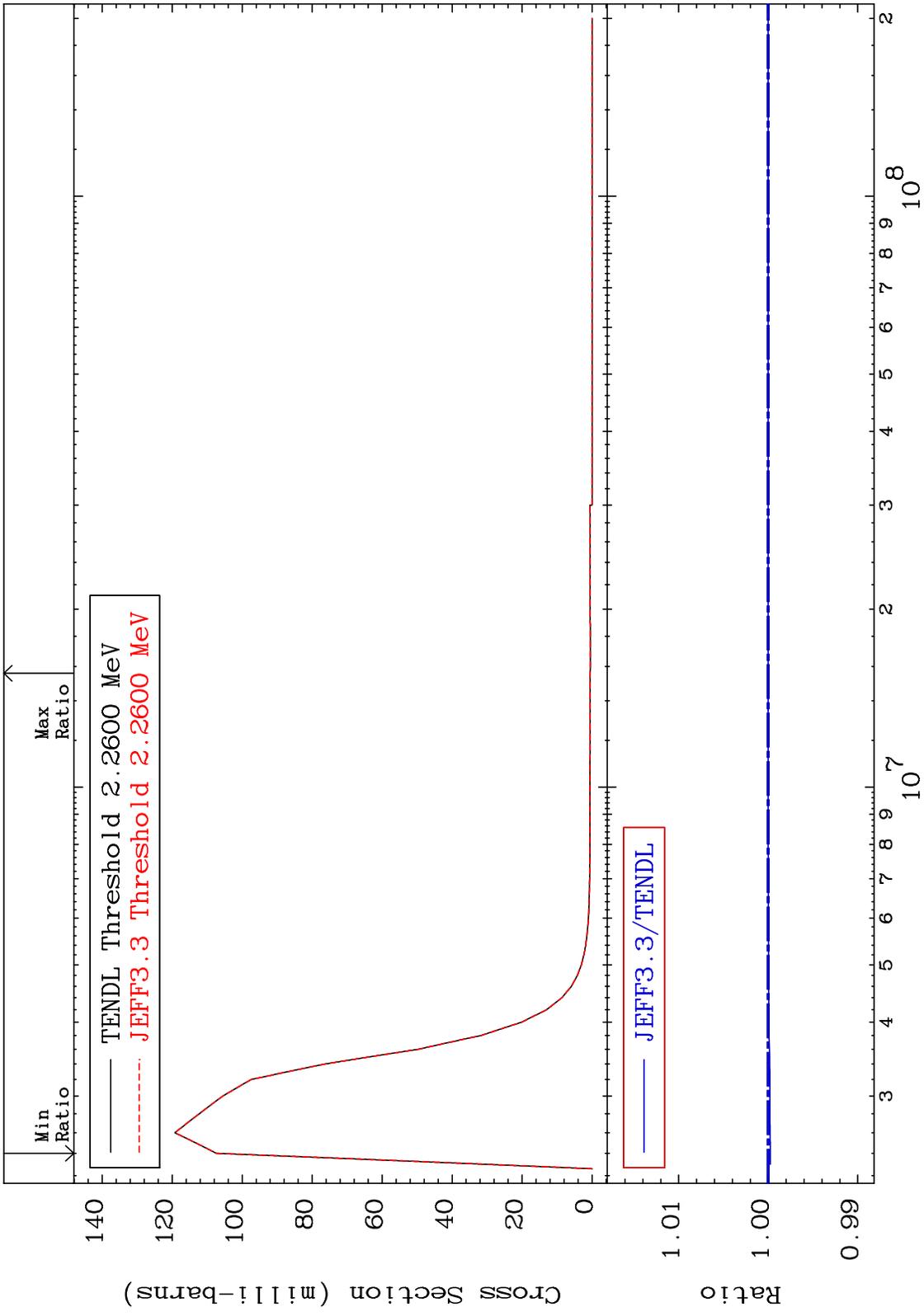
MAT 6025 MT= 54 (n, n') Level Cross Section 60-Nd-142
 -0.098 To 0.000 %



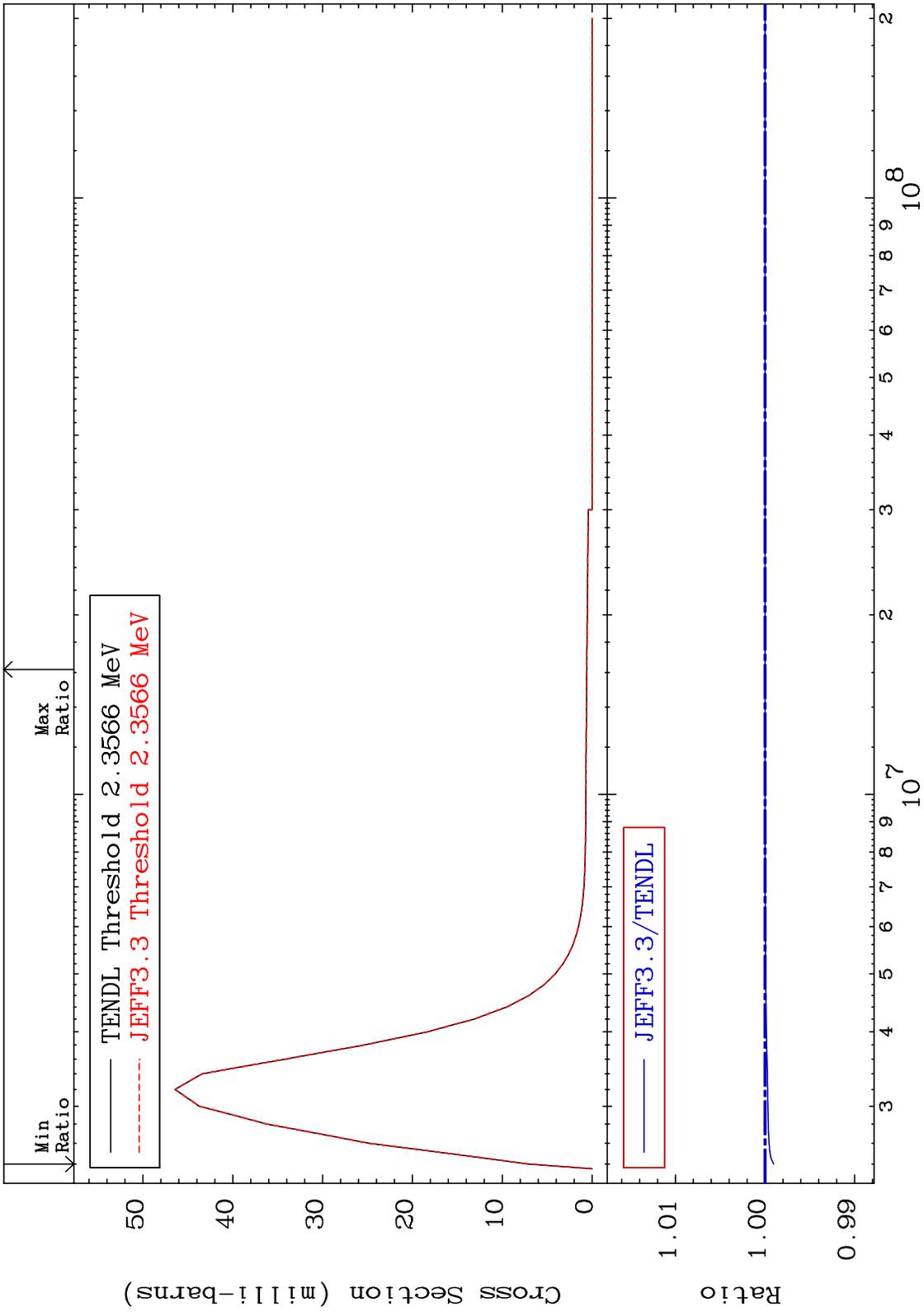
MAT 6025 MT= 55 (n,n') Level Cross Section 60-Nd-142
 -0.505 To 0.000 %



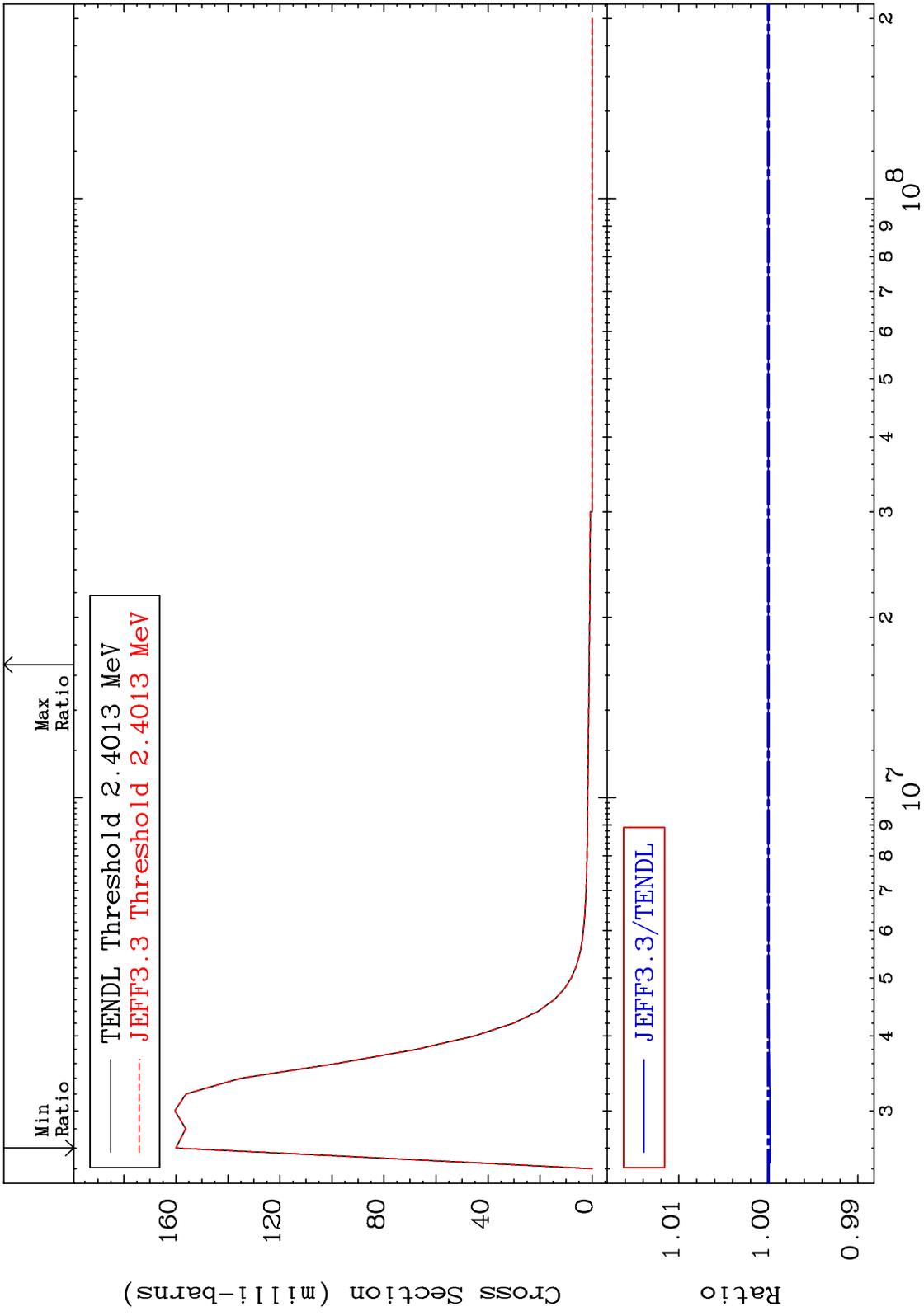
MAT 6025 MT= 56 (n,n') Level Cross Section 60-Nd-142
 -0.024 To 0.000 %



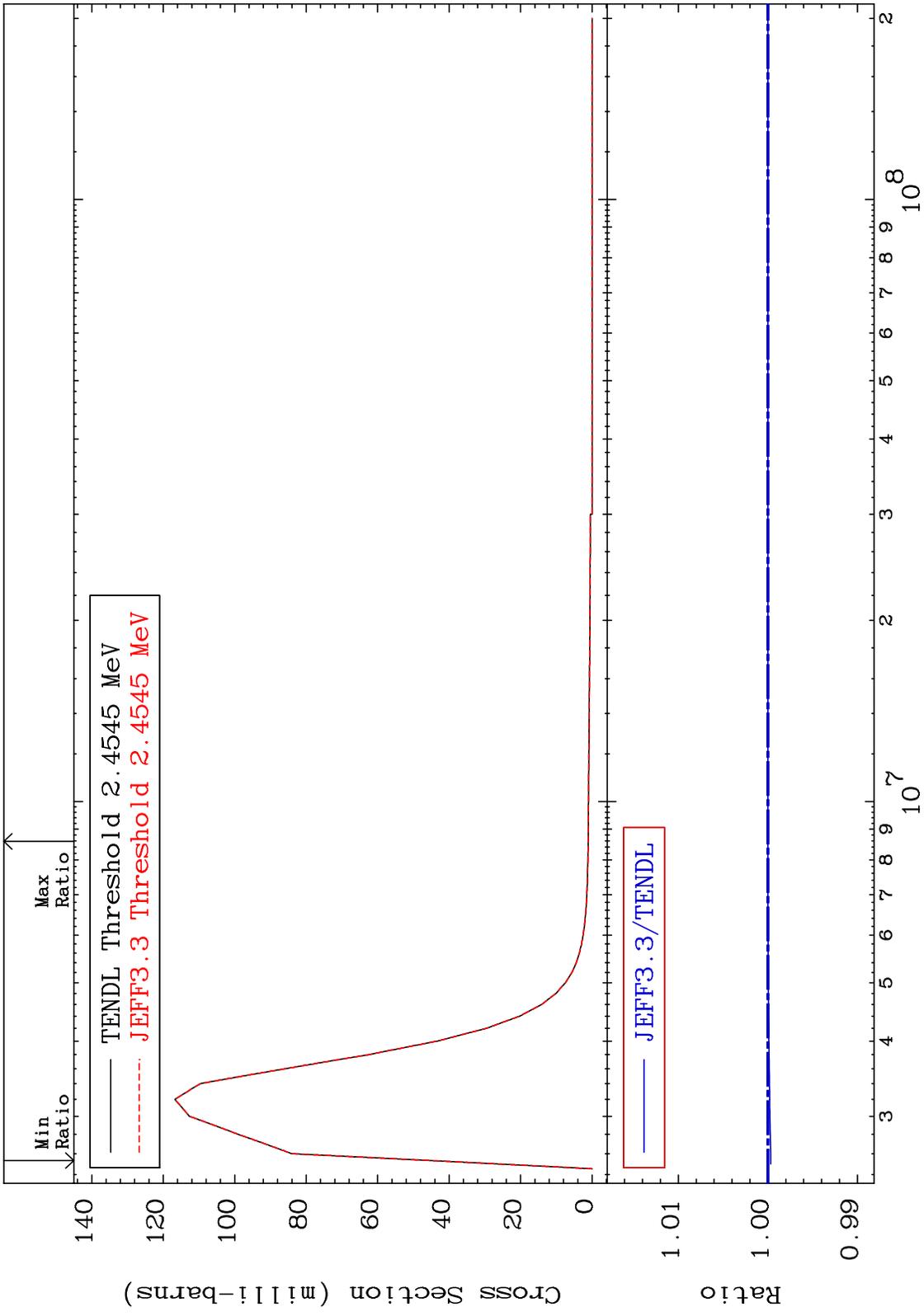
MAT 6025 MT= 57 (n,n') Level Cross Section 60-Nd-142
 -0.096 To 0.000 %



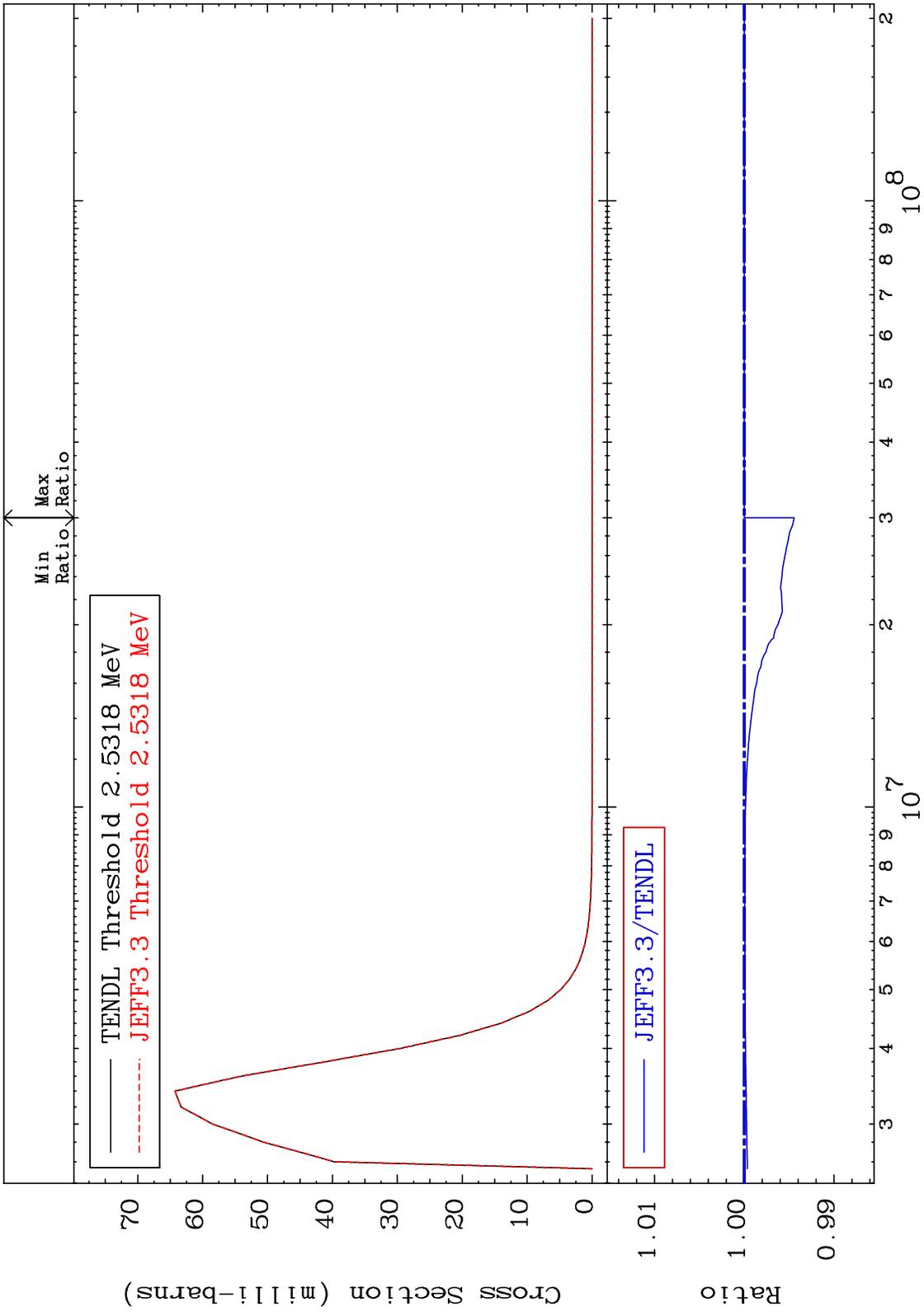
MAT 6025 MT= 58 (n,n') Level Cross Section 60-Nd-142 -0.019 To 0.000 %



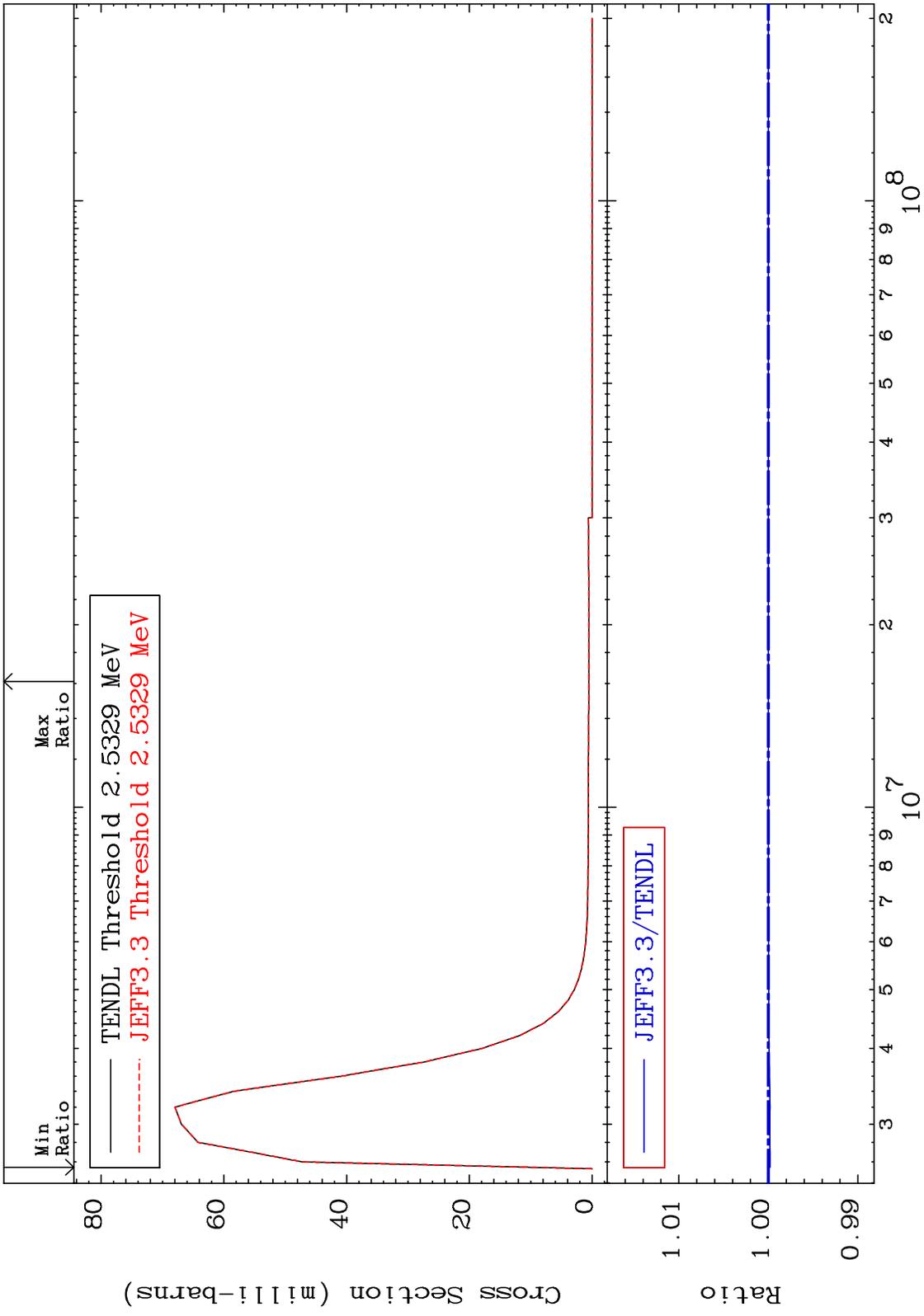
MAT 6025 MT= 59 (n,n') Level Cross Section 60-Nd-142 -0.032 To 0.000 %



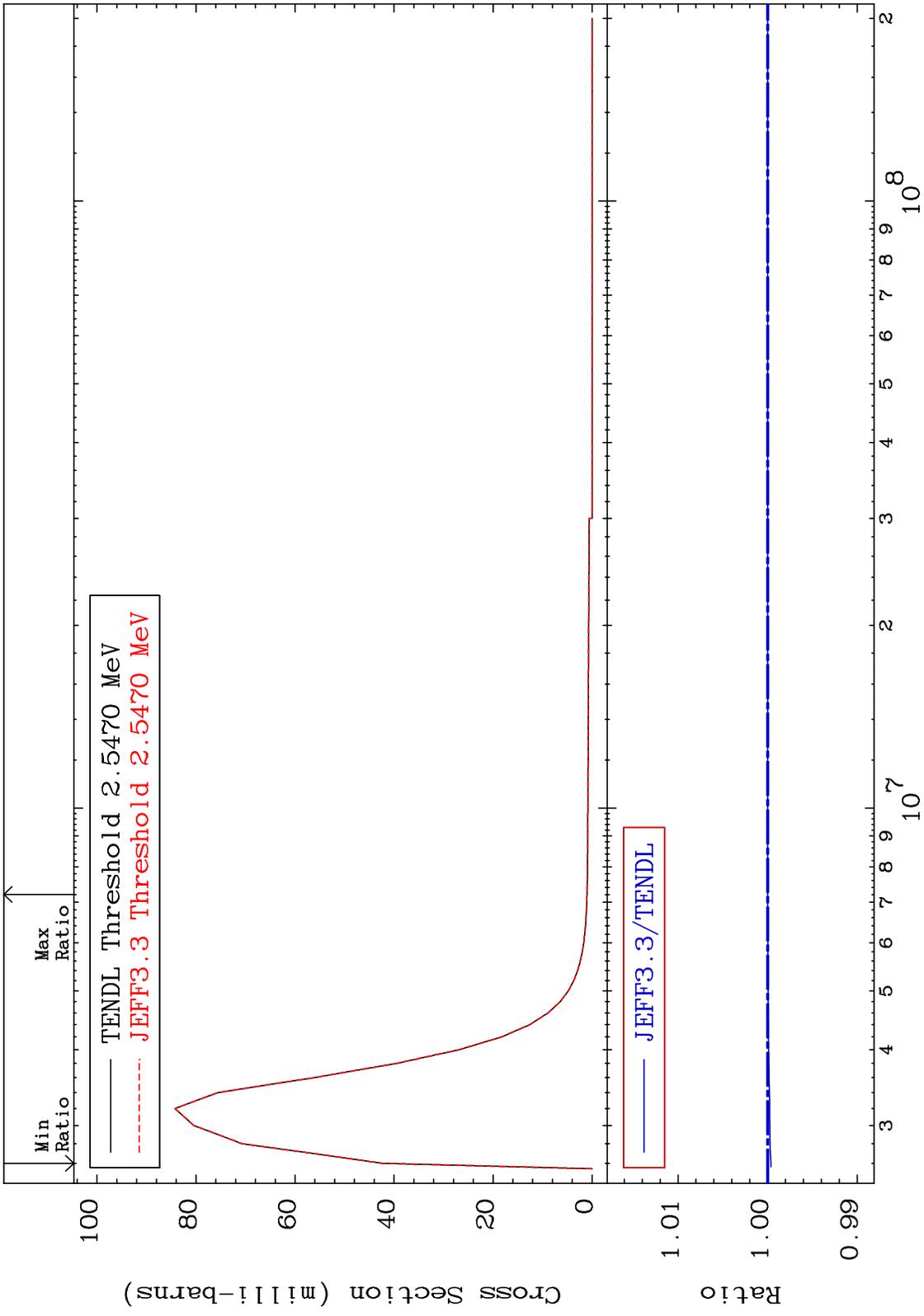
MAT 6025 MT= 60 (n,n') Level Cross Section 60-Nd-142 -0.556 To 0.000 %



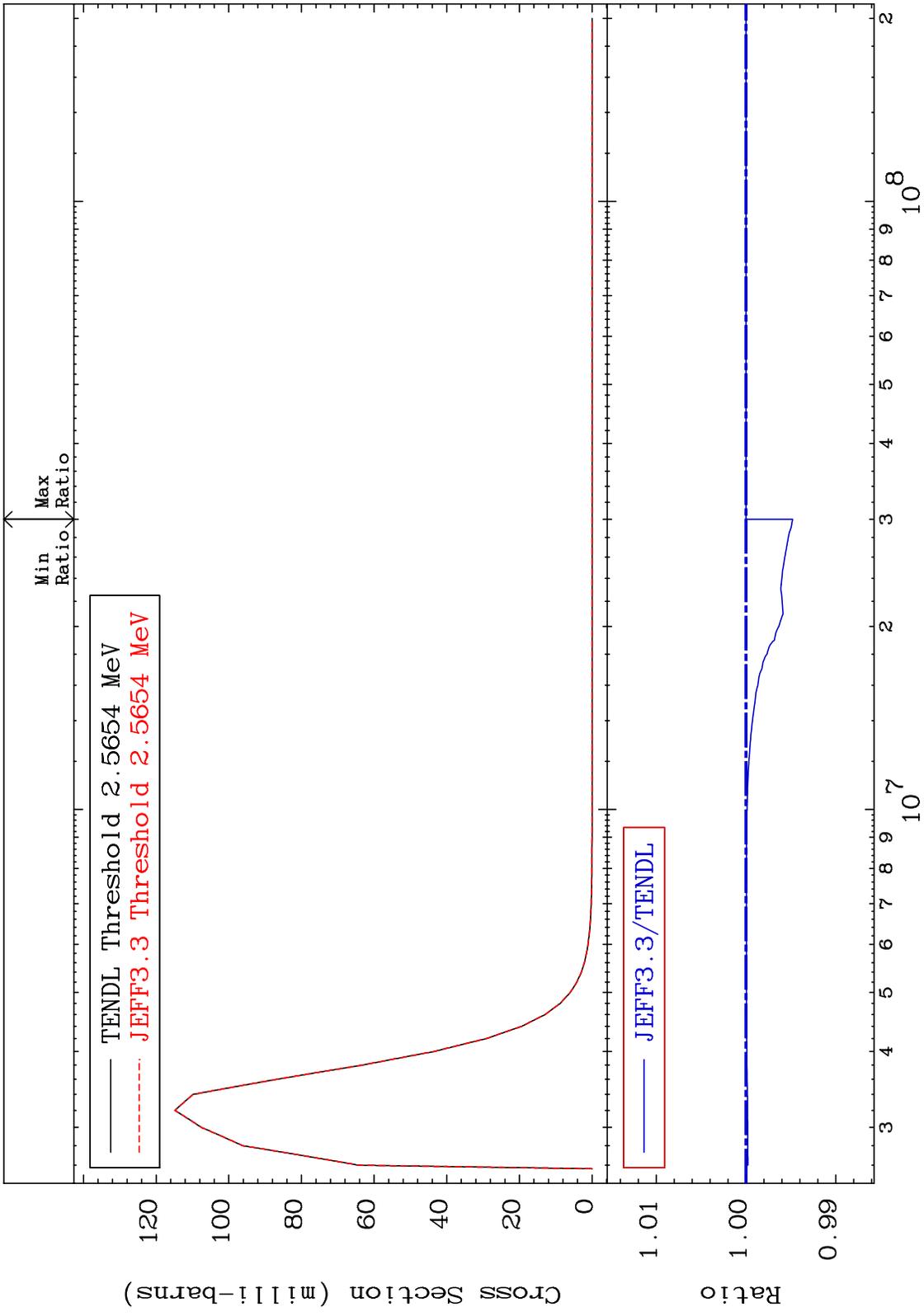
MAT 6025 MT= 61 (n,n') Level Cross Section 60-Nd-142 -0.020 To 0.000 %



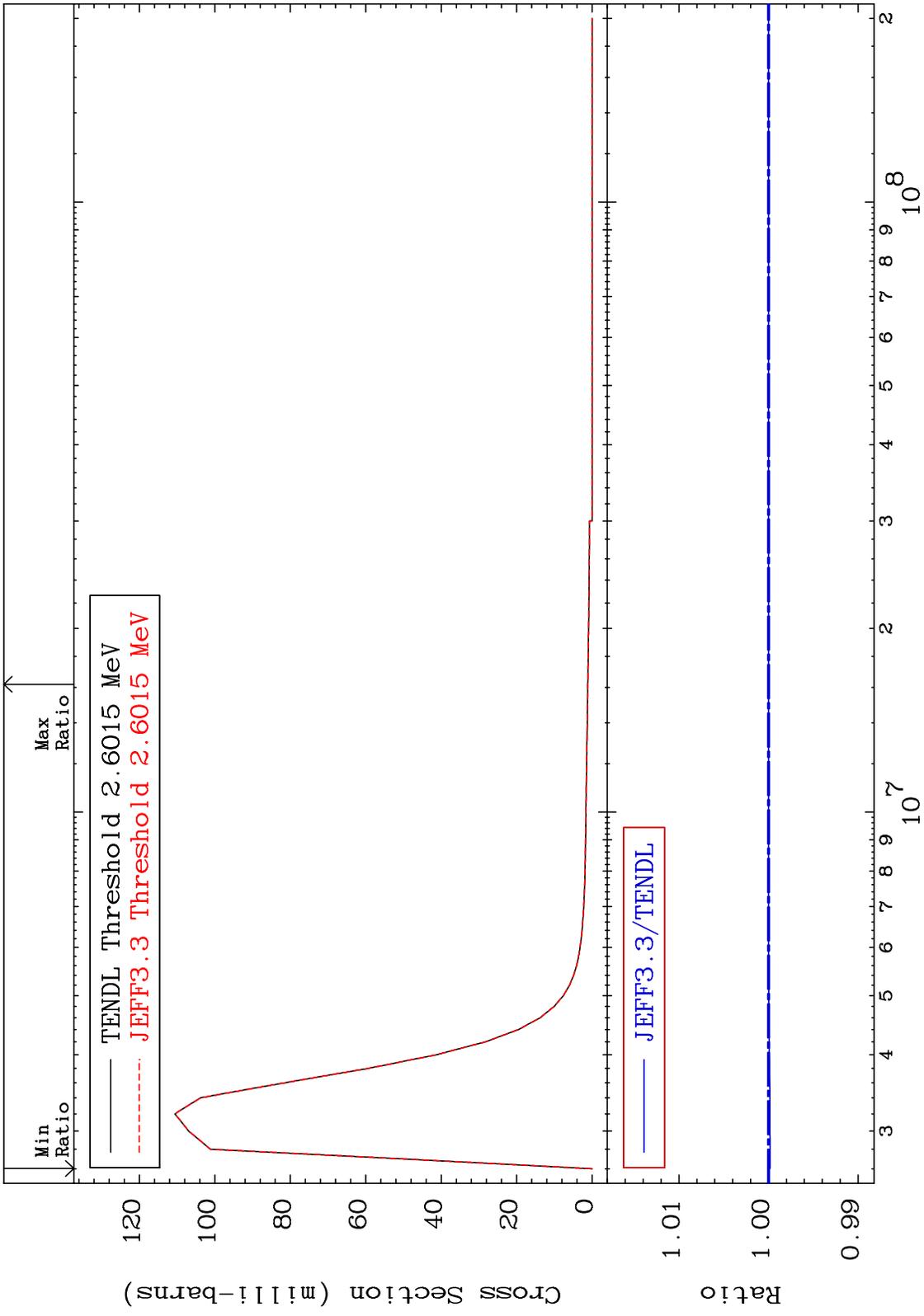
MAT 6025 MT= 62 (n,n') Level Cross Section 60-Nd-142
 -0.038 To 0.000 %



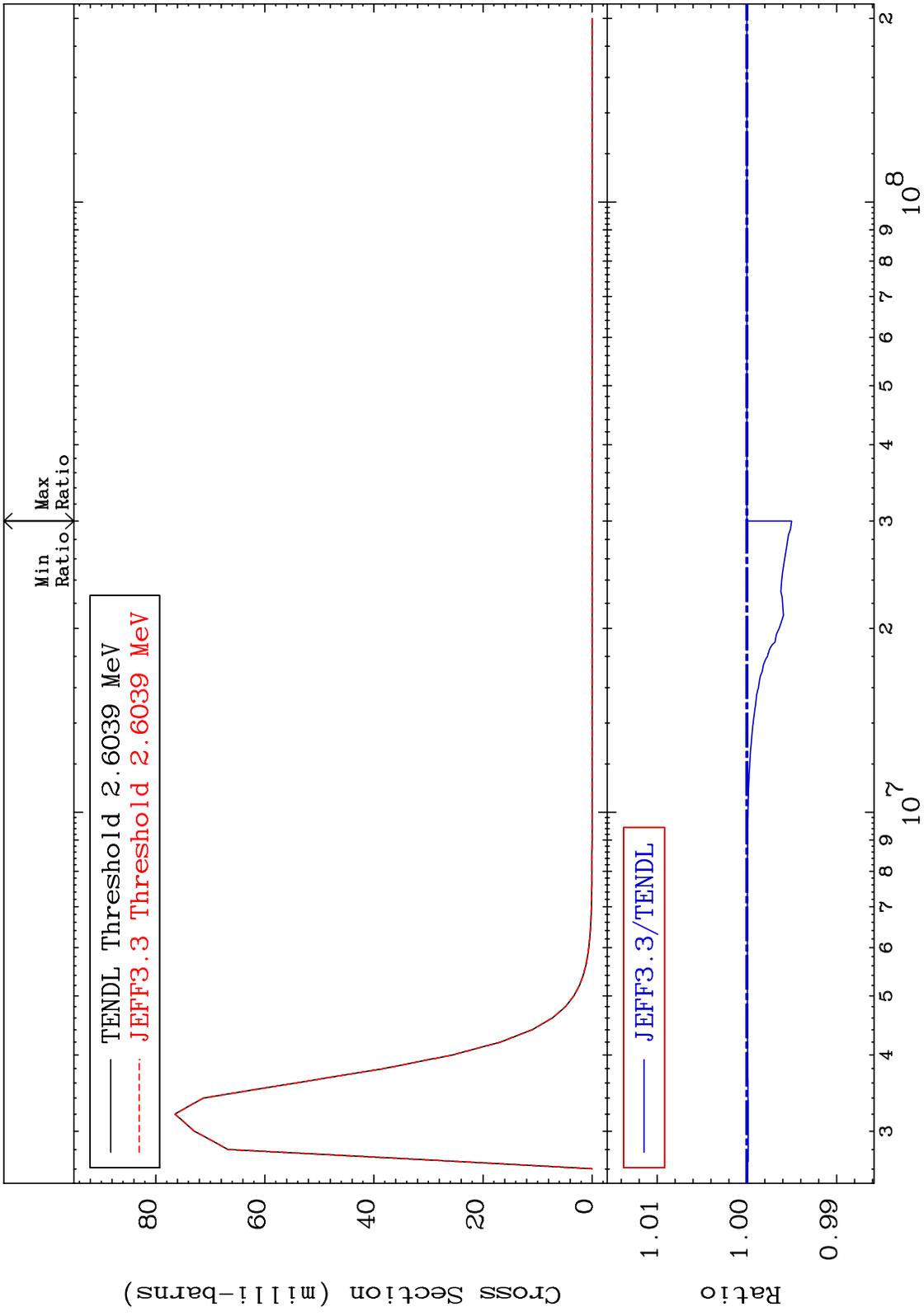
MAT 6025 MT= 63 (n, n') Level Cross Section 60-Nd-142
 -0.520 To 0.000 %



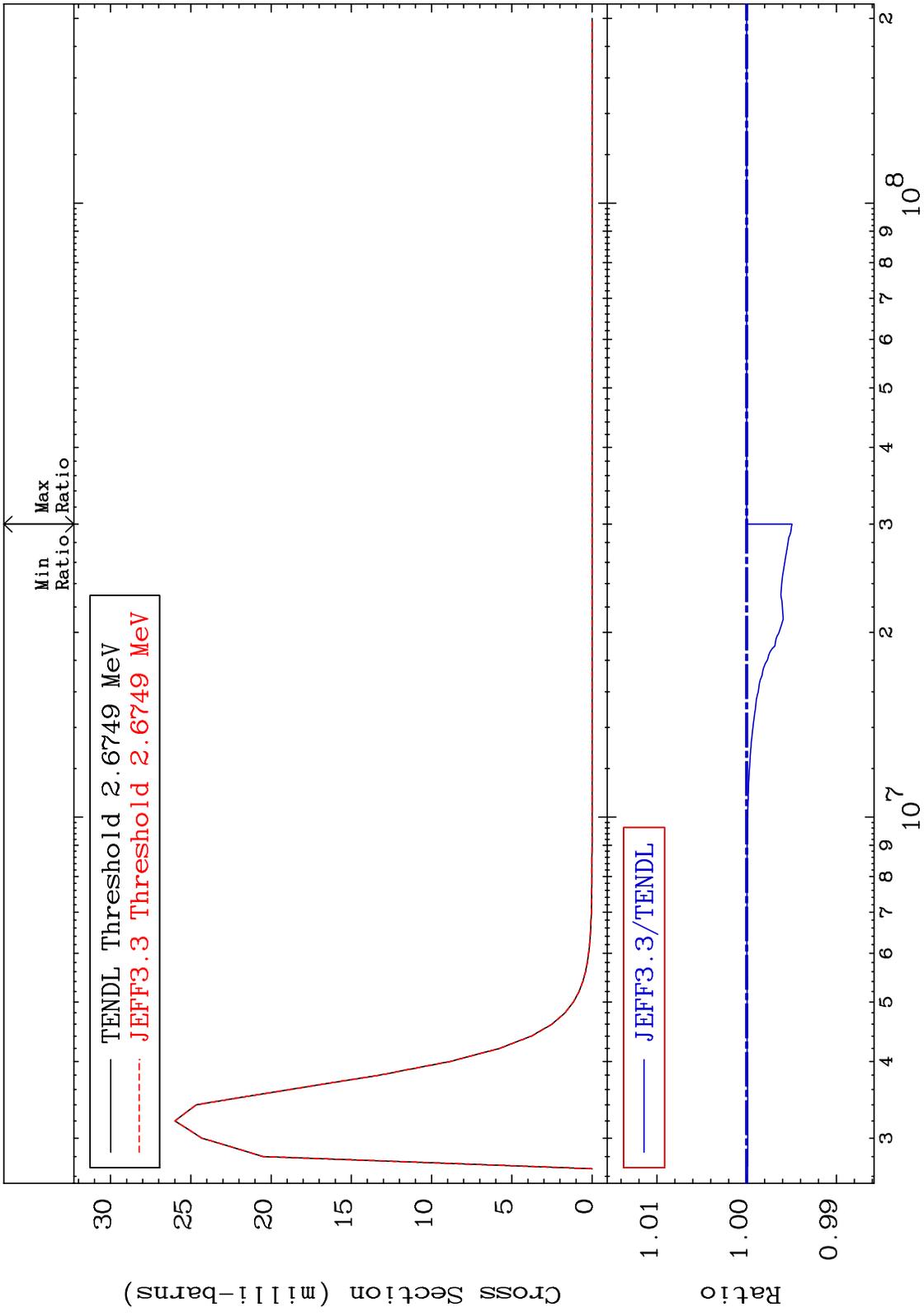
MAT 6025 MT= 64 (n,n') Level Cross Section 60-Nd-142
 -0.017 To 0.000 %



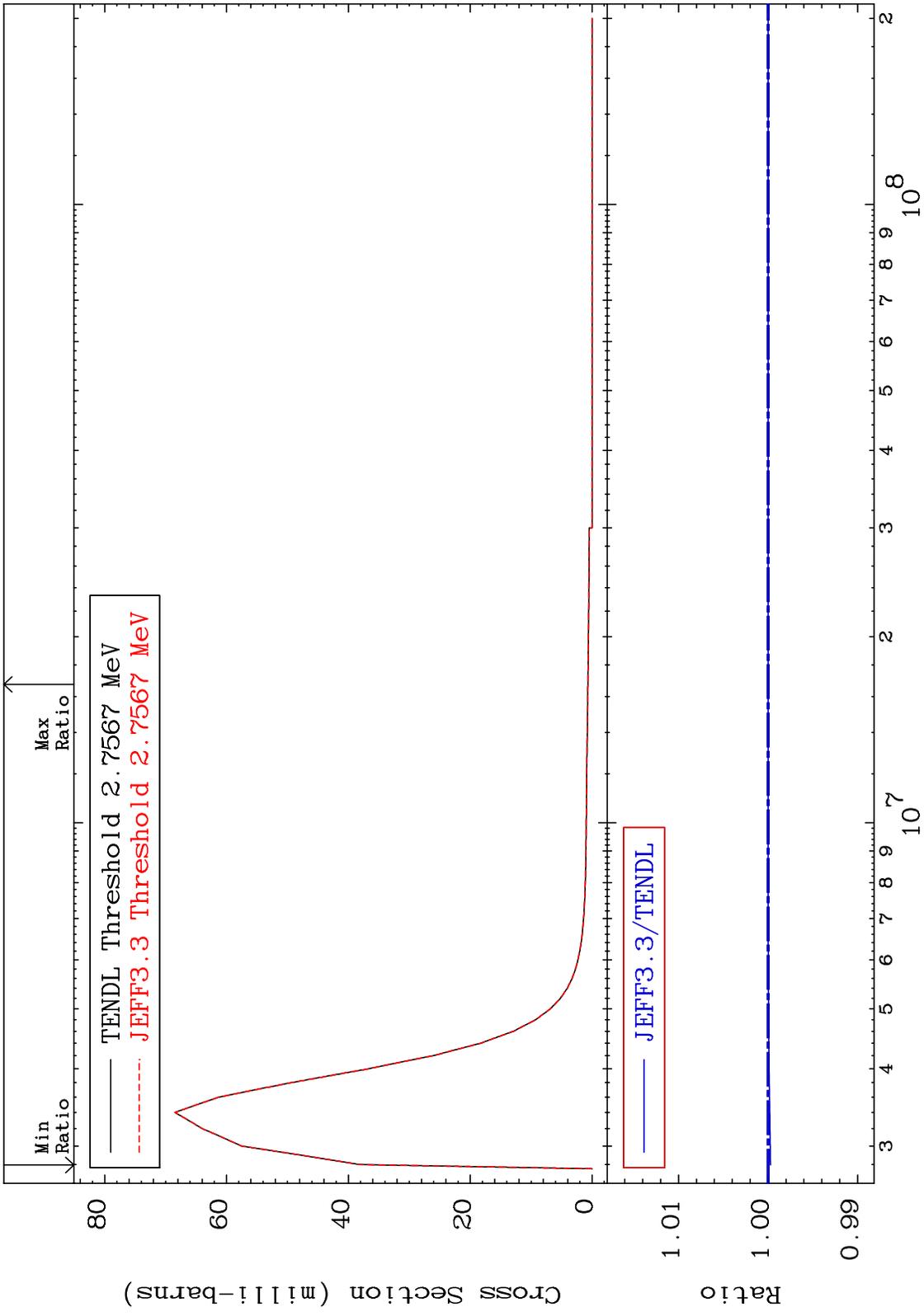
MAT 6025 MT= 65 (n,n') Level Cross Section 60-Nd-142
 -0.499 To 0.000 %



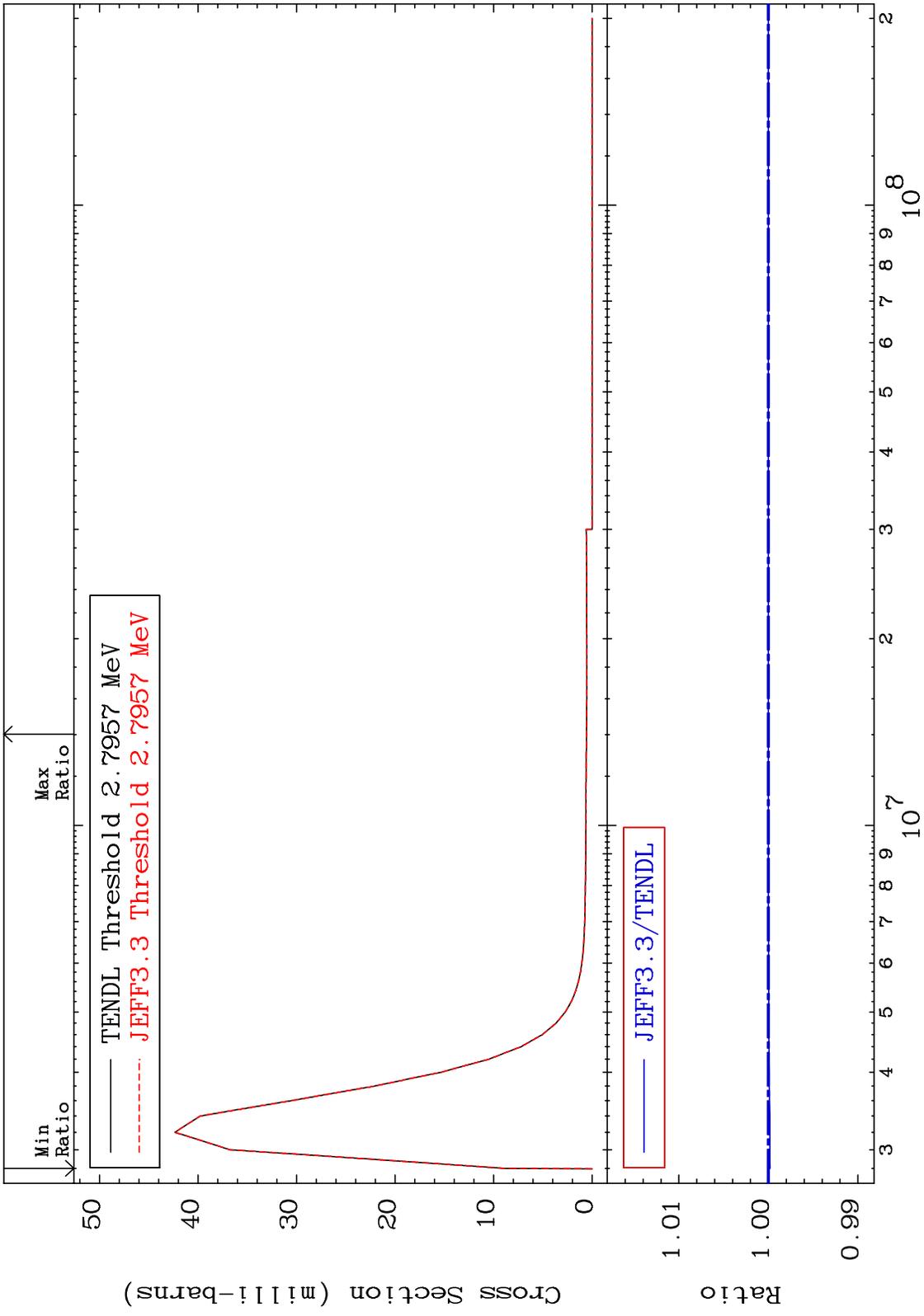
MAT 6025 MT= 66 (n,n') Level Cross Section 60-Nd-142
 -0.504 To 0.000 %



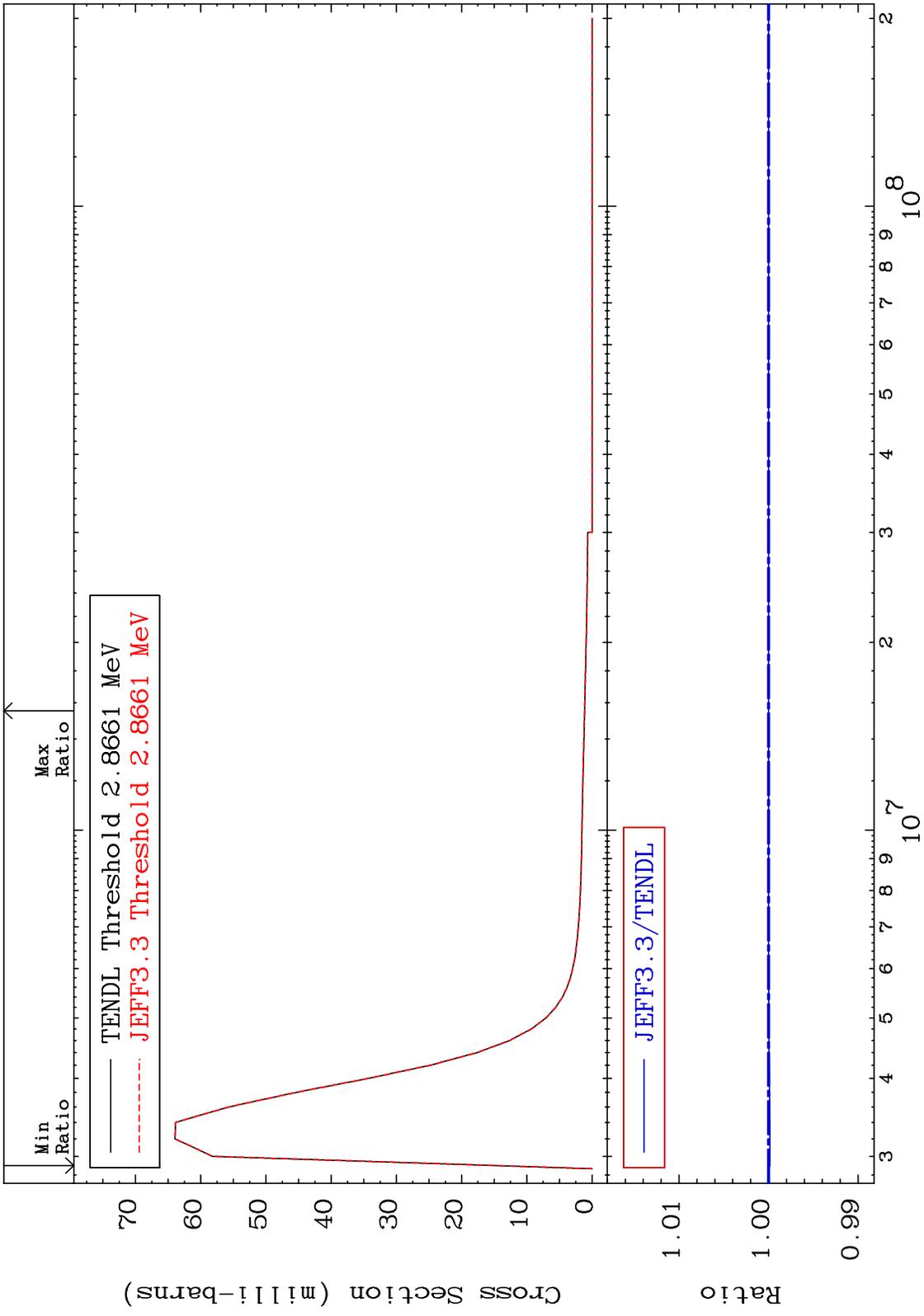
MAT 6025 MT= 67 (n,n') Level Cross Section 60-Nd-142 -0.027 To 0.000 %



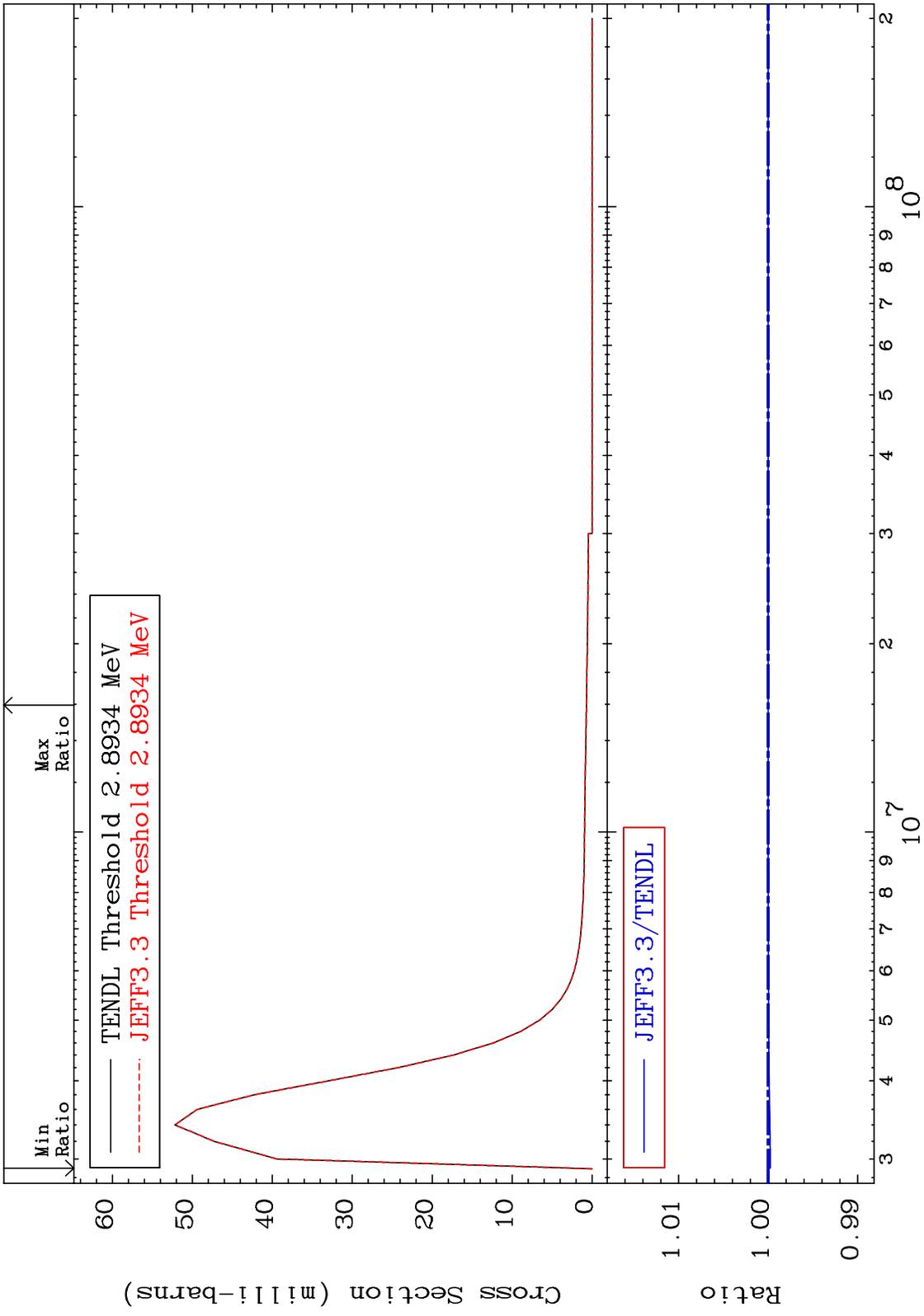
MAT 6025 MT= 68 (n,n') Level Cross Section 60-Nd-142
 -0.019 To 0.000 %



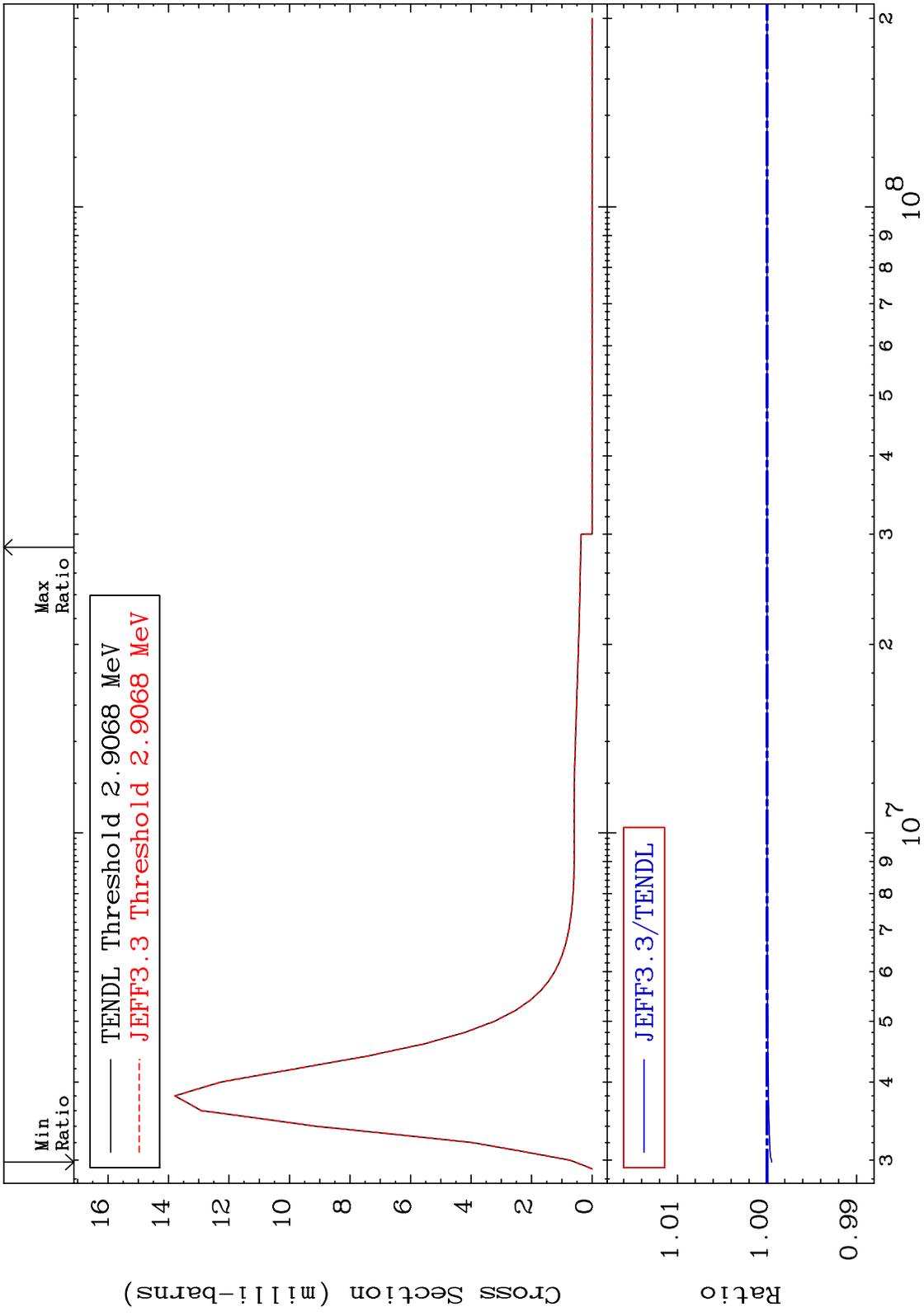
MAT 6025 MT= 69 (n,n') Level Cross Section 60-Nd-142
 -0.016 To 0.000 %



MAT 6025 MT= 70 (n,n') Level Cross Section 60-Nd-142
 -0.024 To 0.000 %

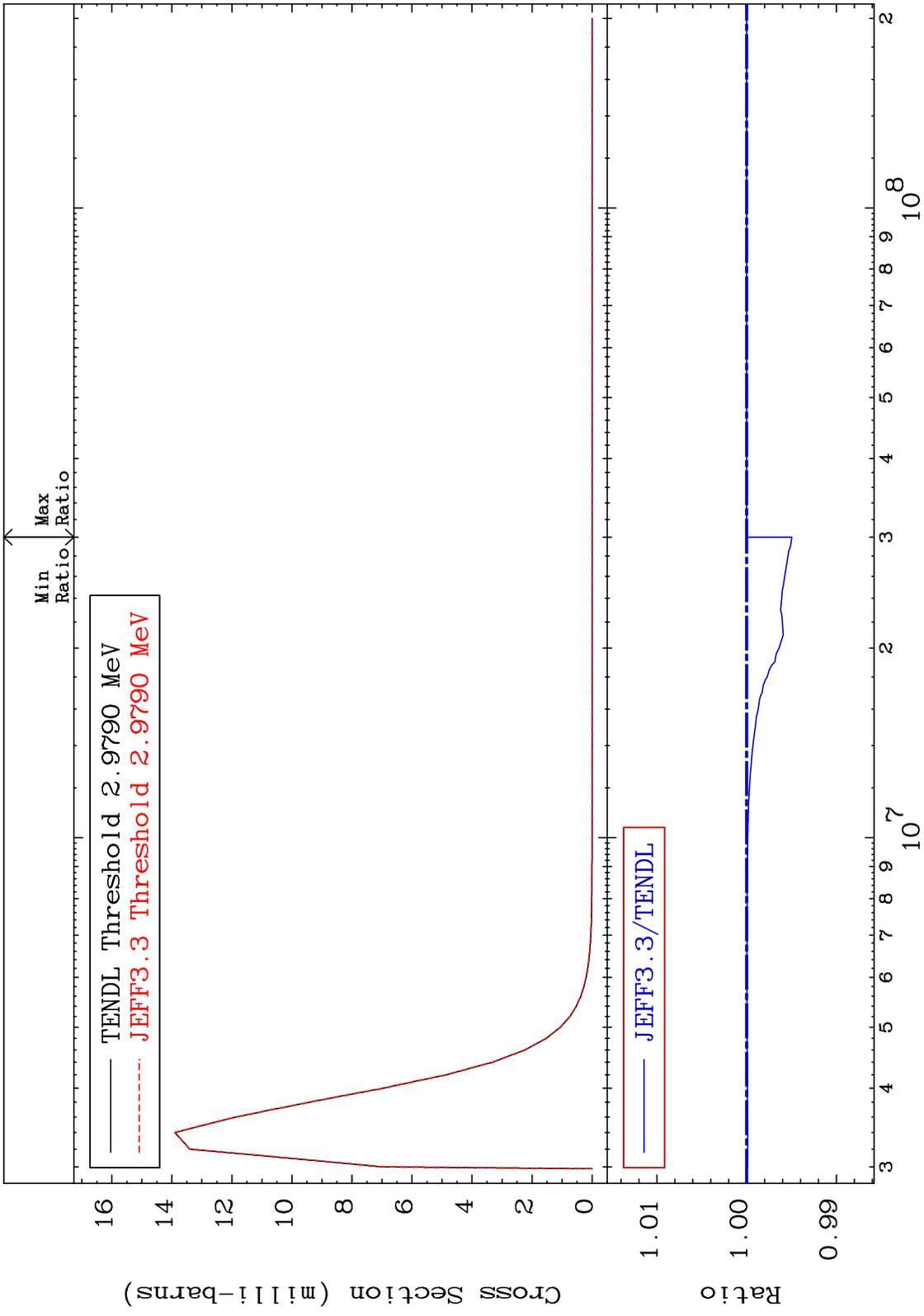


MAT 6025 MT= 71 (n,n') Level Cross Section 60-Nd-142 -0.052 To 0.000 %

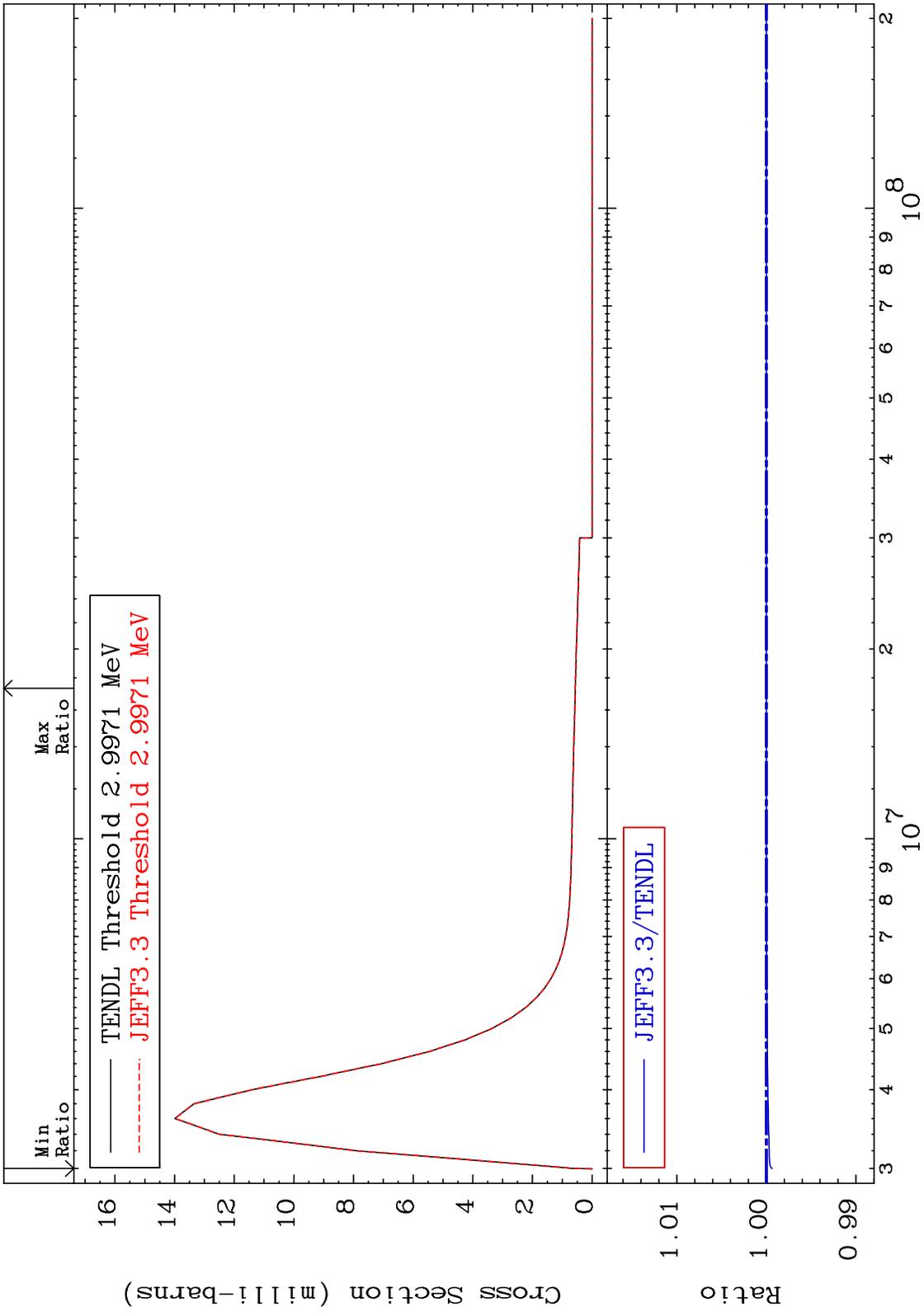


40 Incident Energy (eV) 60-Nd-142

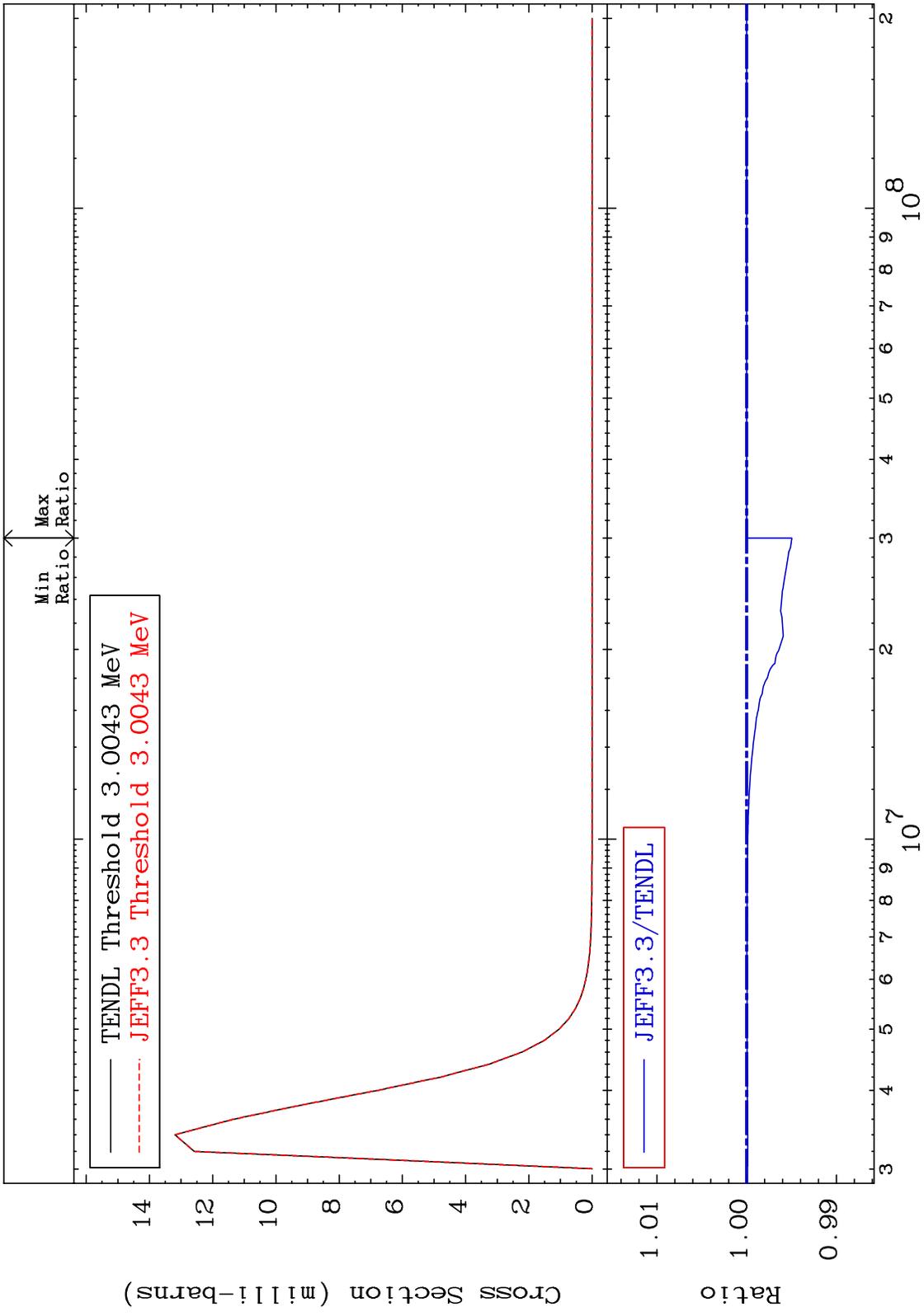
MAT 6025 MT= 72 (n,n') Level Cross Section 60-Nd-142
 -0.503 To 0.000 %



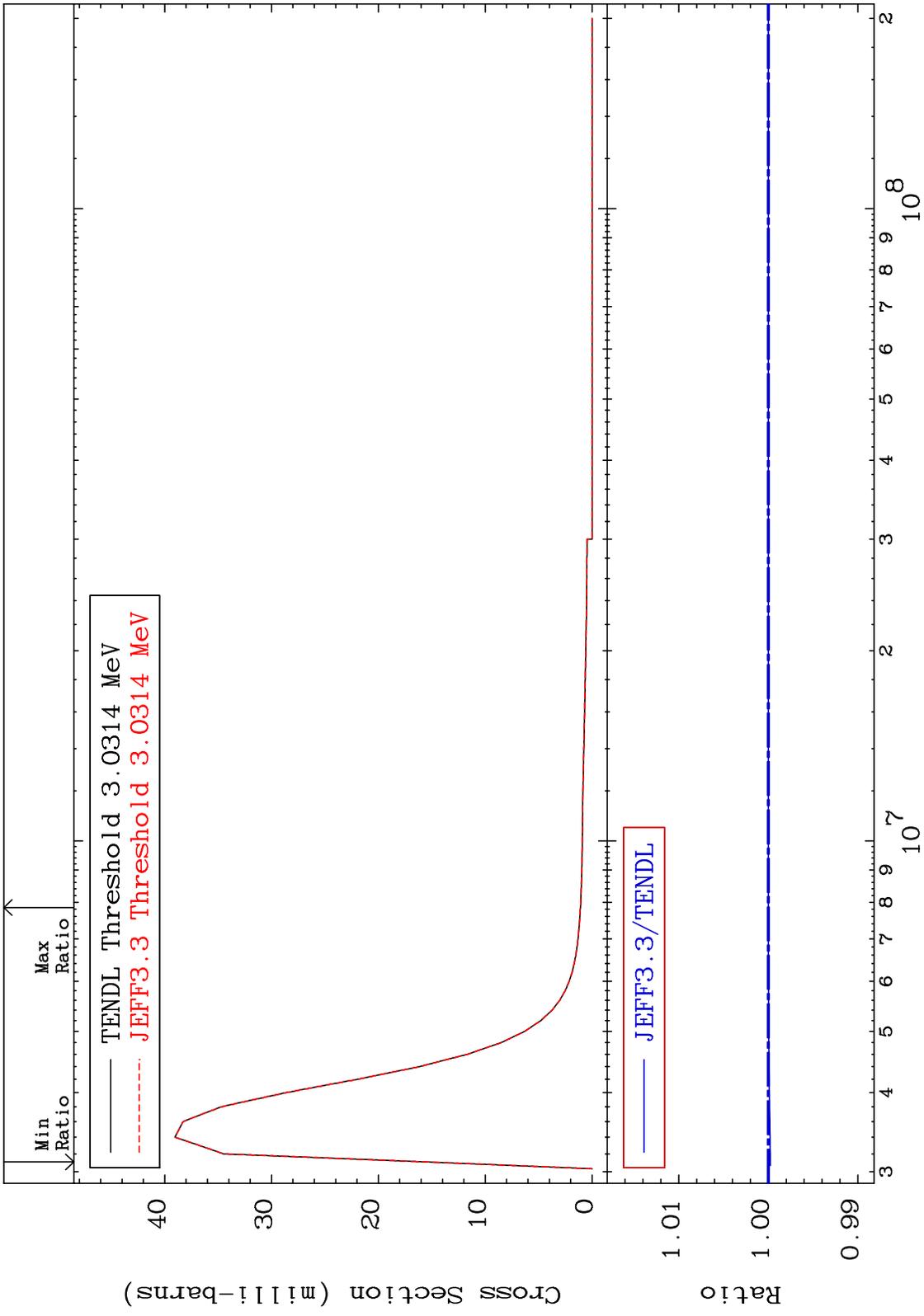
MAT 6025 MT= 73 (n,n') Level Cross Section 60-Nd-142
 -0.065 To 0.000 %



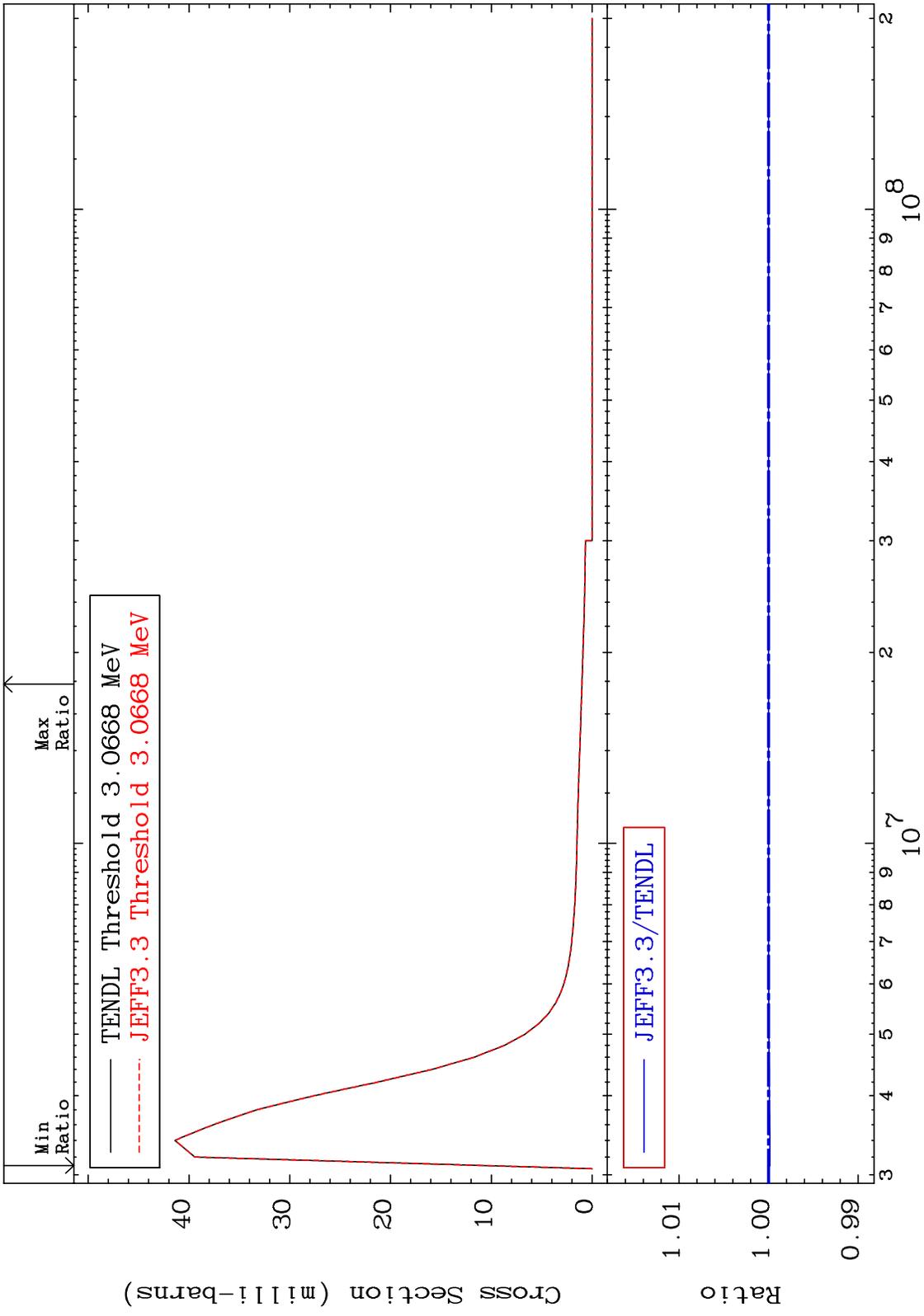
MAT 6025 MT= 74 (n,n') Level Cross Section 60-Nd-142
 -0.503 To 0.000 %



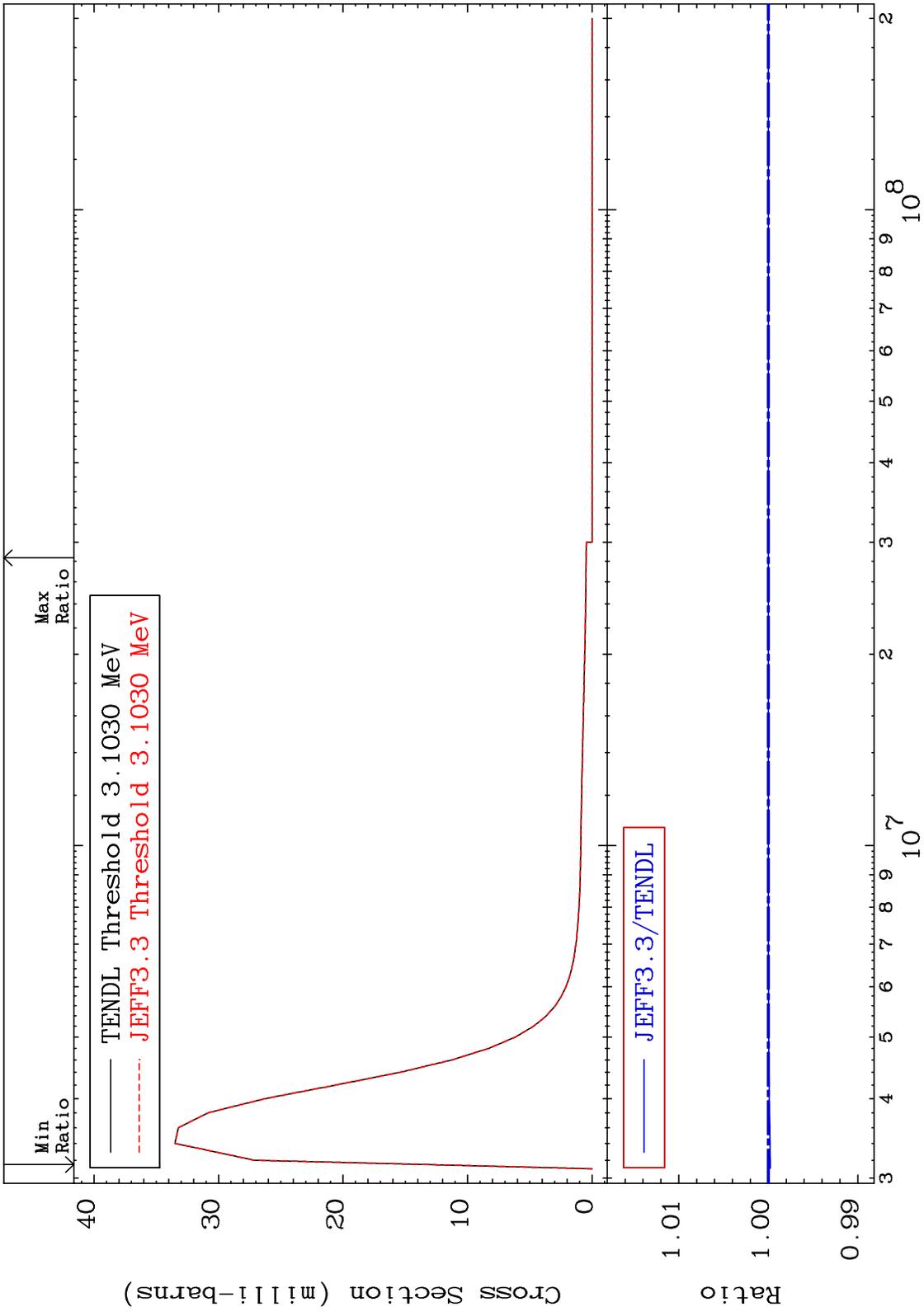
MAT 6025 MT= 75 (n,n') Level Cross Section 60-Nd-142
 -0.021 To 0.000 %



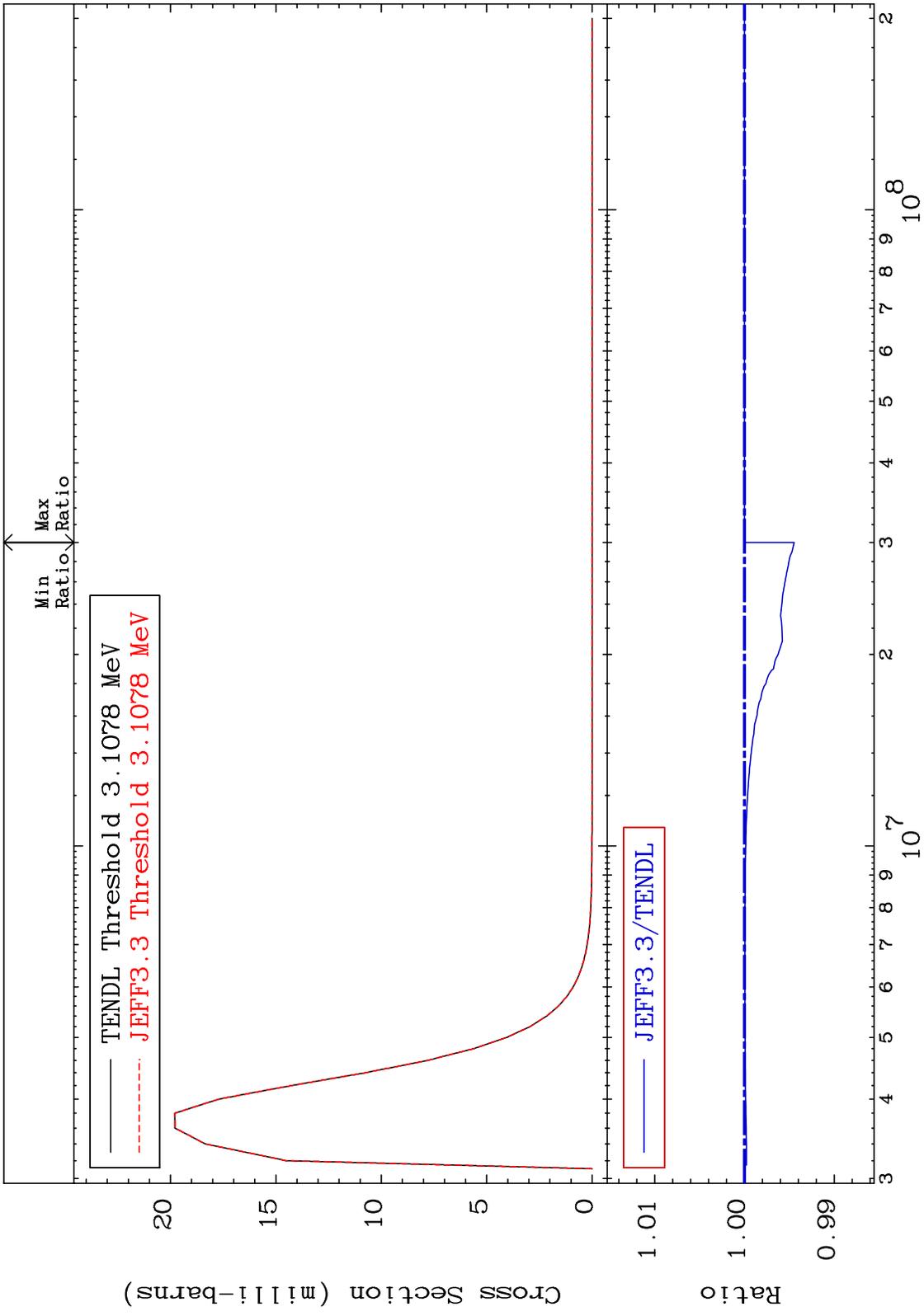
MAT 6025 MT= 76 (n,n') Level Cross Section 60-Nd-142 -0.015 To 0.000 %



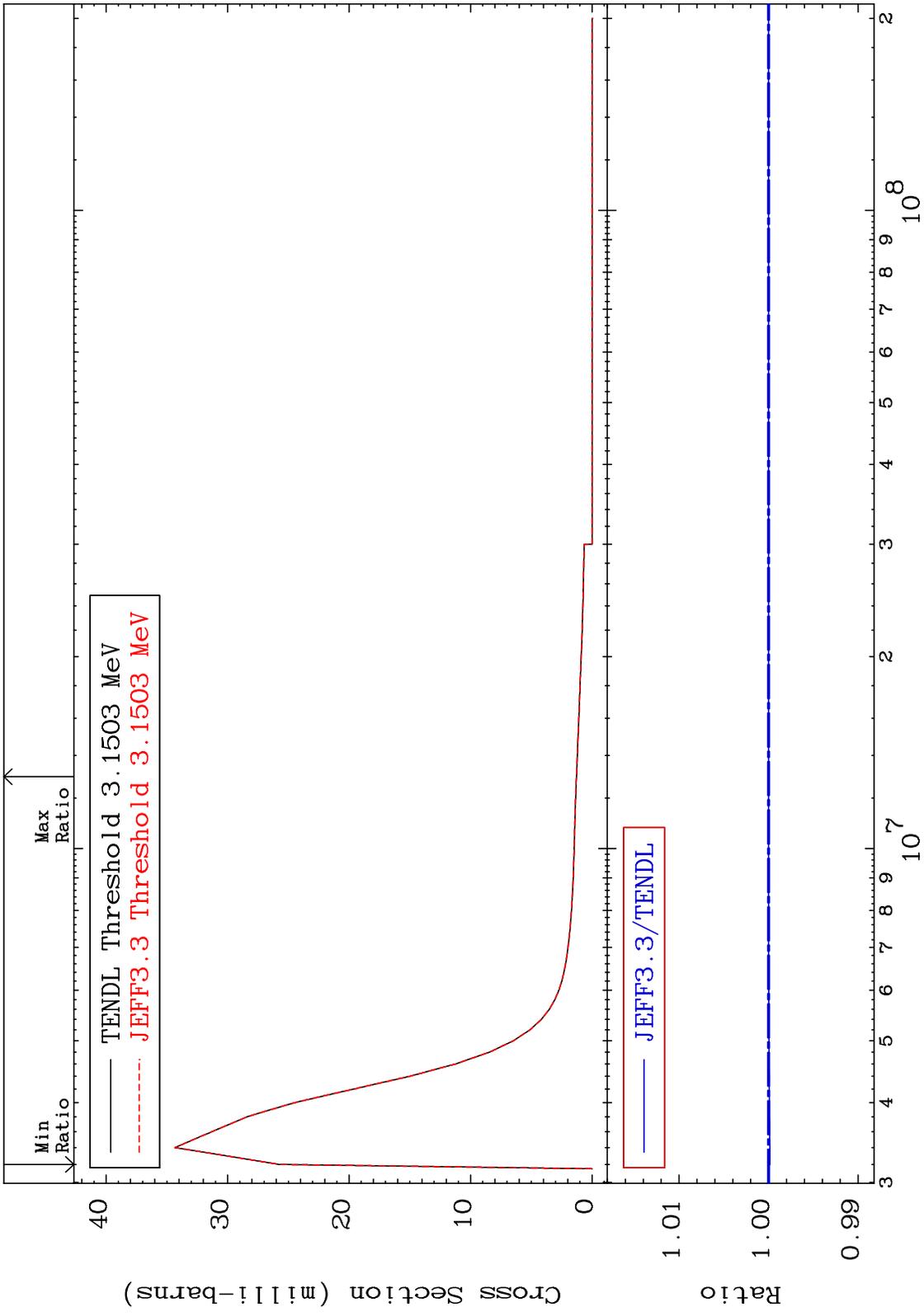
MAT 6025 MT= 77 (n,n') Level Cross Section 60-Nd-142
 -0.021 To 0.000 %



MAT 6025 MT= 78 (n,n') Level Cross Section 60-Nd-142
 -0.553 To 0.000 %



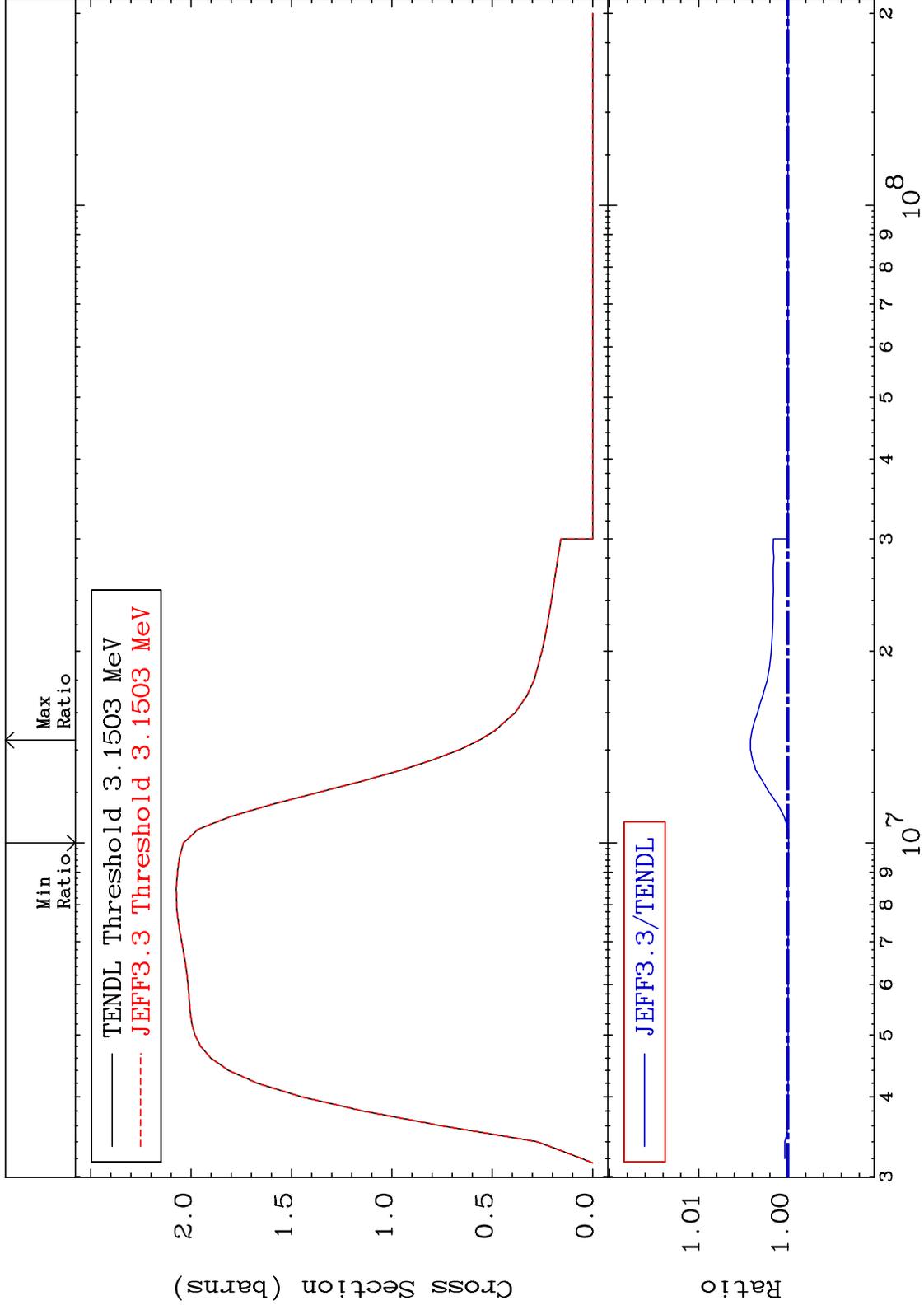
MAT 6025 MT= 79 (n,n') Level Cross Section 60-Nd-142
 -0.015 To 0.000 %



MAT 6025

(n,n') Continuum
Cross Section

60-Nd-142
-0.009 To 0.419 %



49

Incident Energy (eV)

60-Nd-142

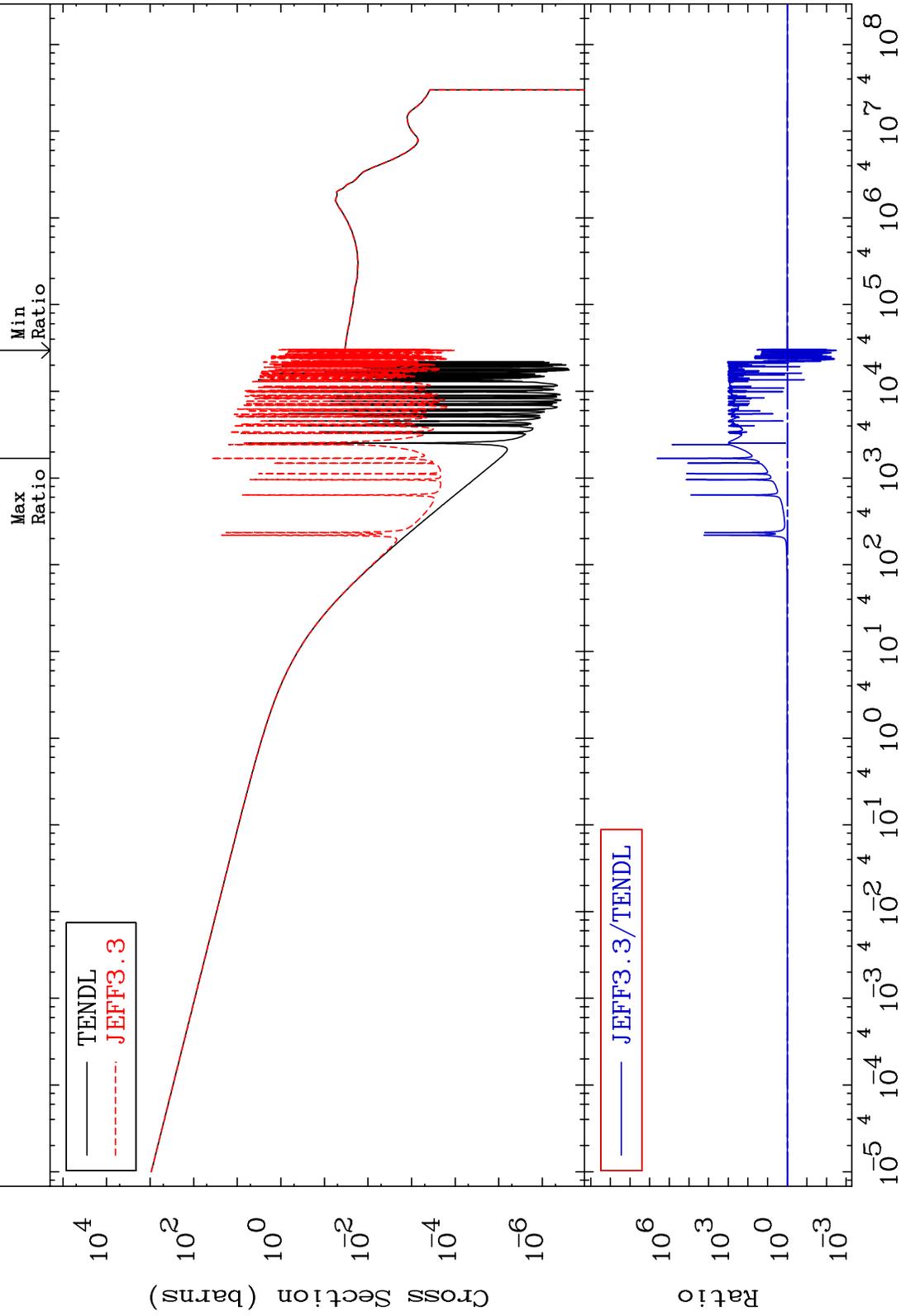
MAT 6025

(n, γ)

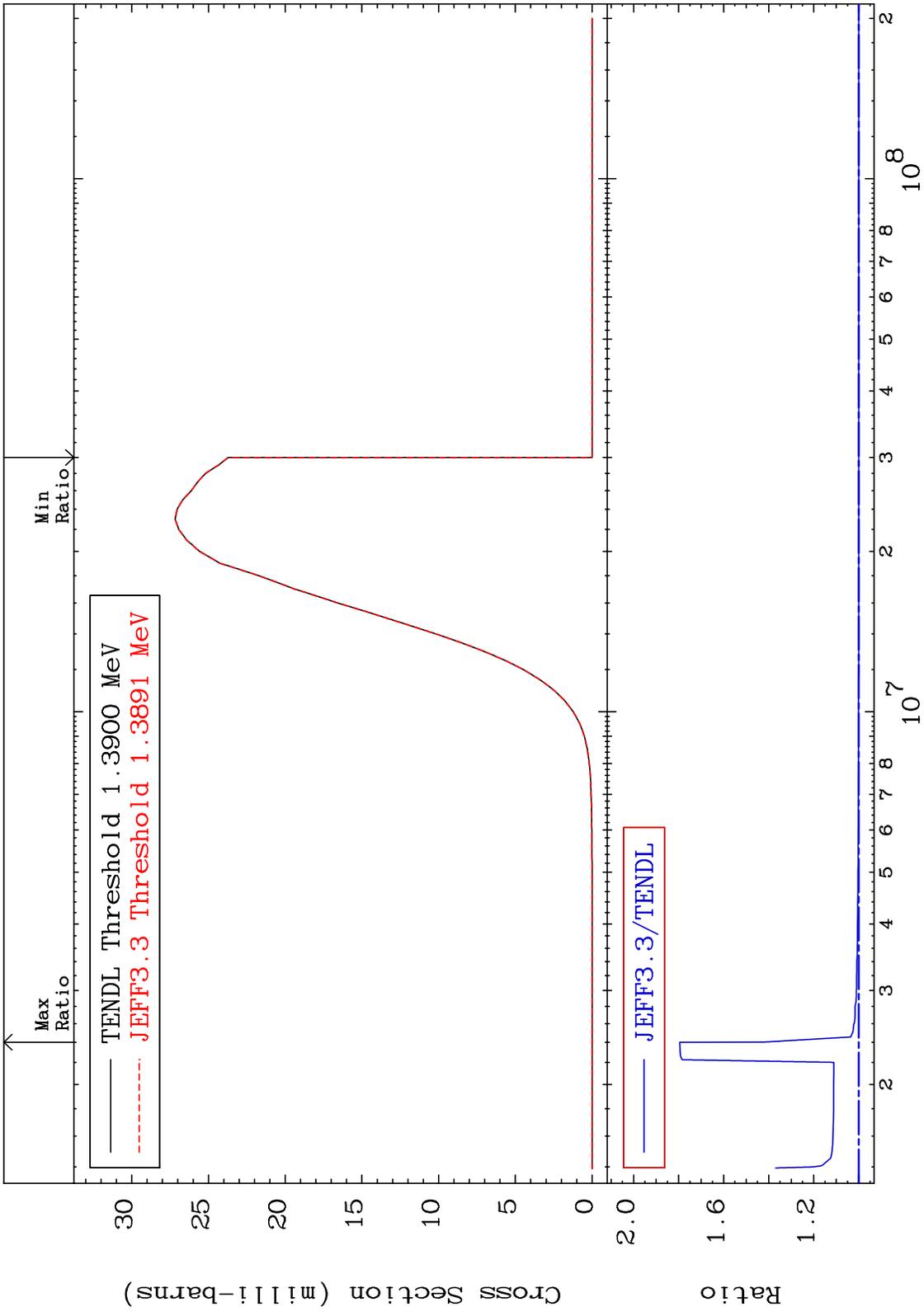
60-Nd-142

-99.69 To 9999. %

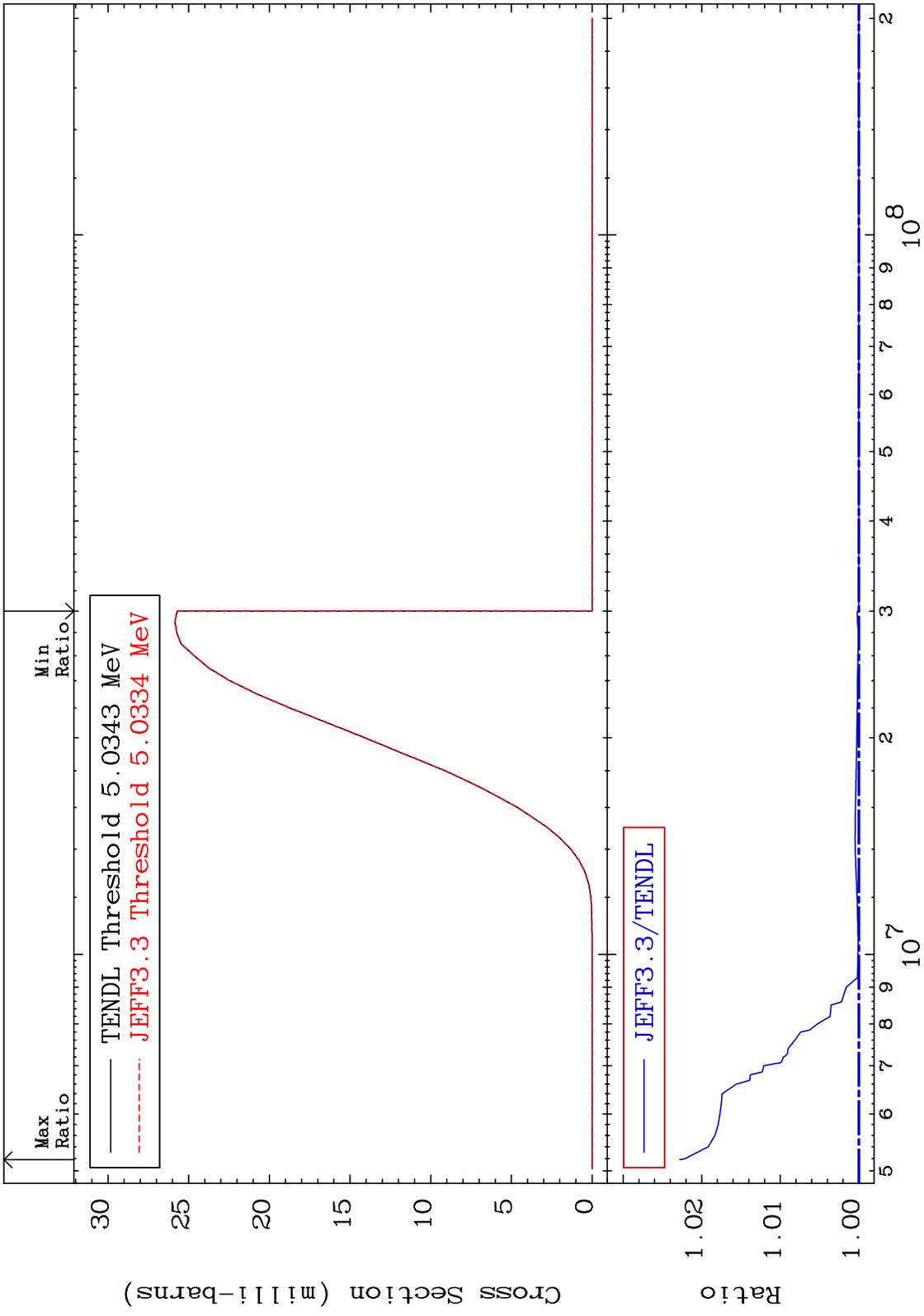
Cross Section



MAT 6025 (n,p) Cross Section 60-Nd-142 To 79.51 %

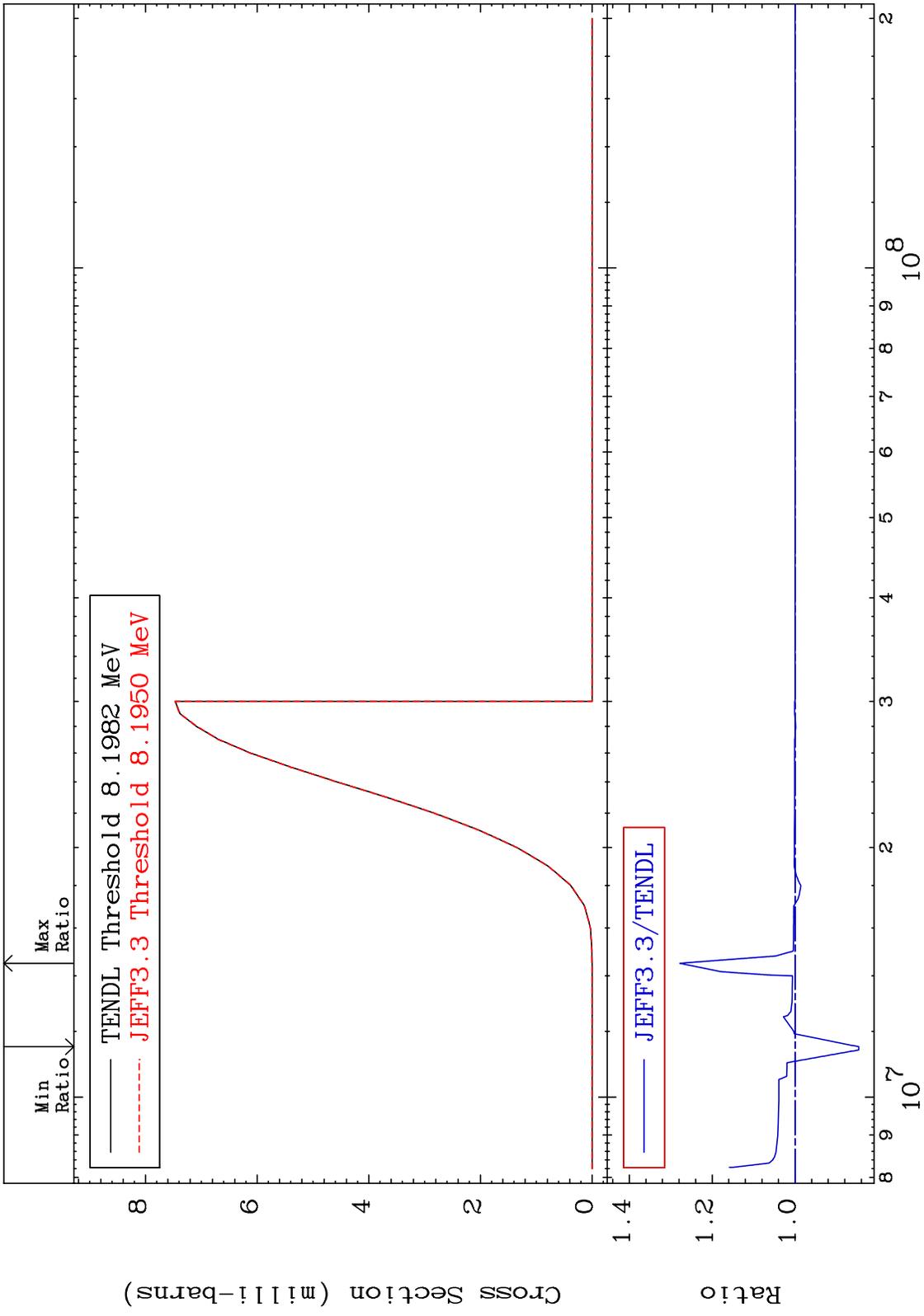


MAT 6025 (n,d) Cross Section 60-Nd-142 To 2.280 %



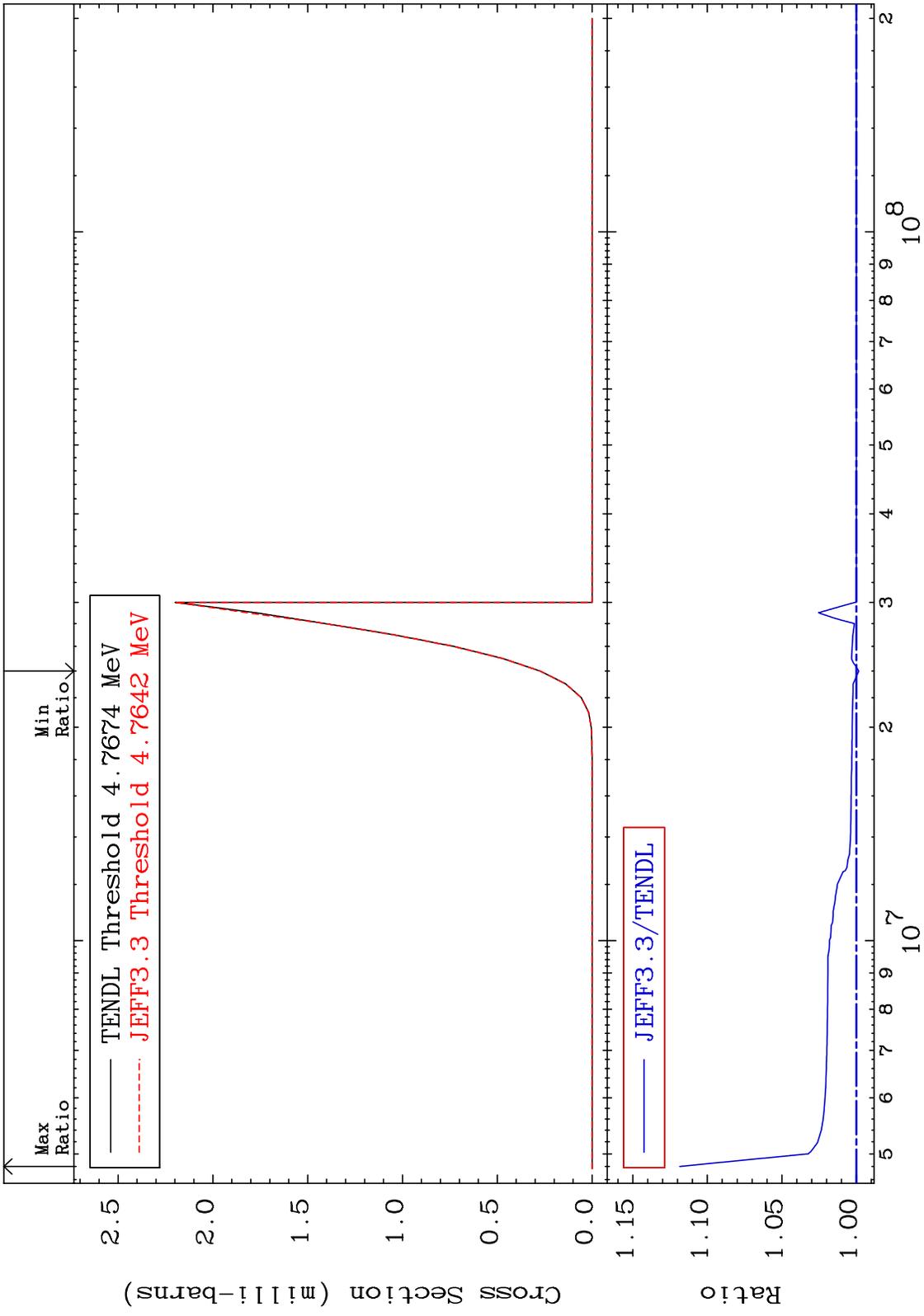
52 Incident Energy (eV) 60-Nd-142

MAT 6025 (n,t) Cross Section 60-Nd-142
-15.39 To 27.83 %



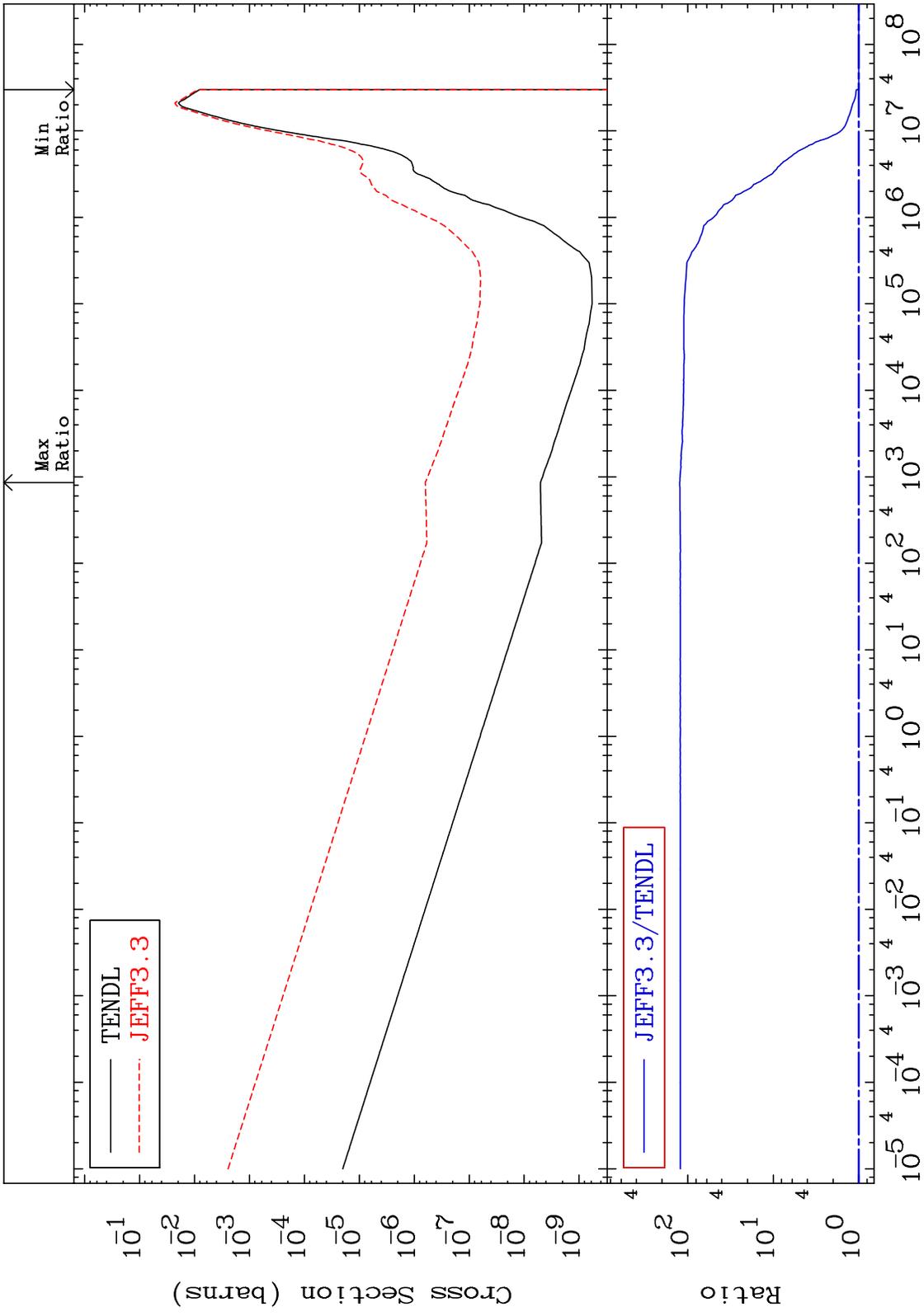
60-Nd-142

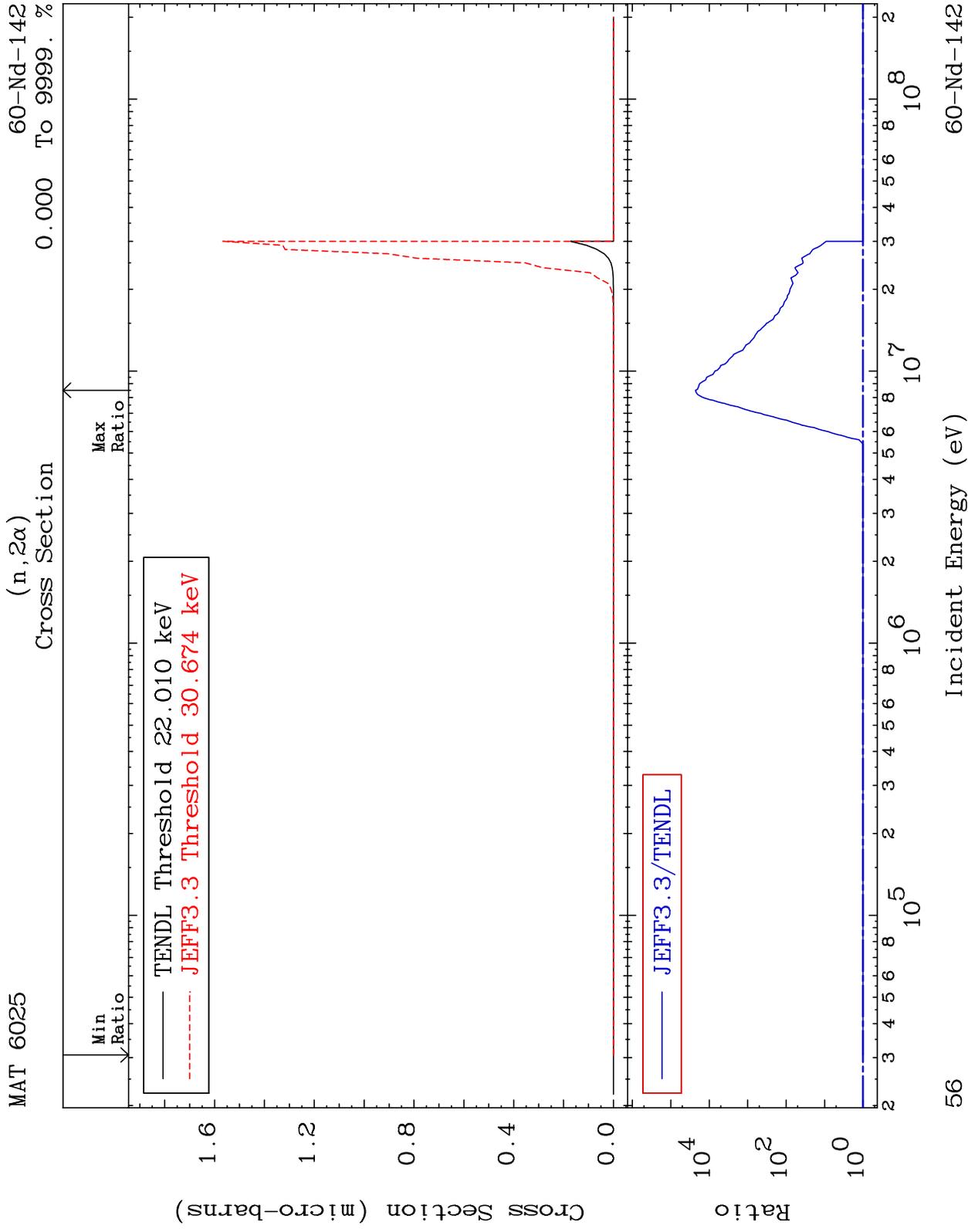
MAT 6025 (n, He-3) Cross Section 60-Nd-142
 -0.164 To 11.85 %



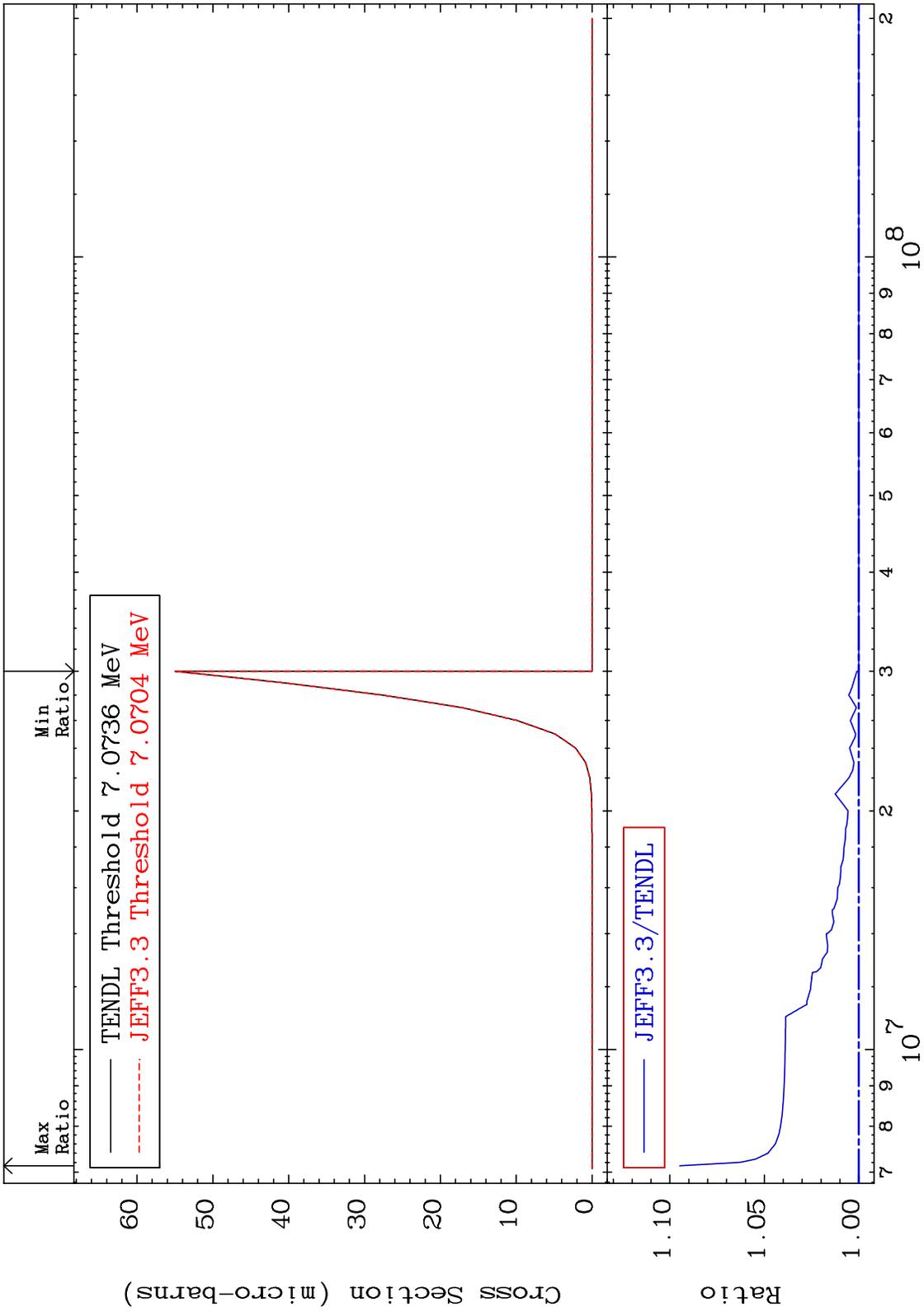
54 Incident Energy (eV) 60-Nd-142

MAT 6025 $^{60}\text{Nd-142}$ Cross Section (n, α) 0.000 To 9999. %

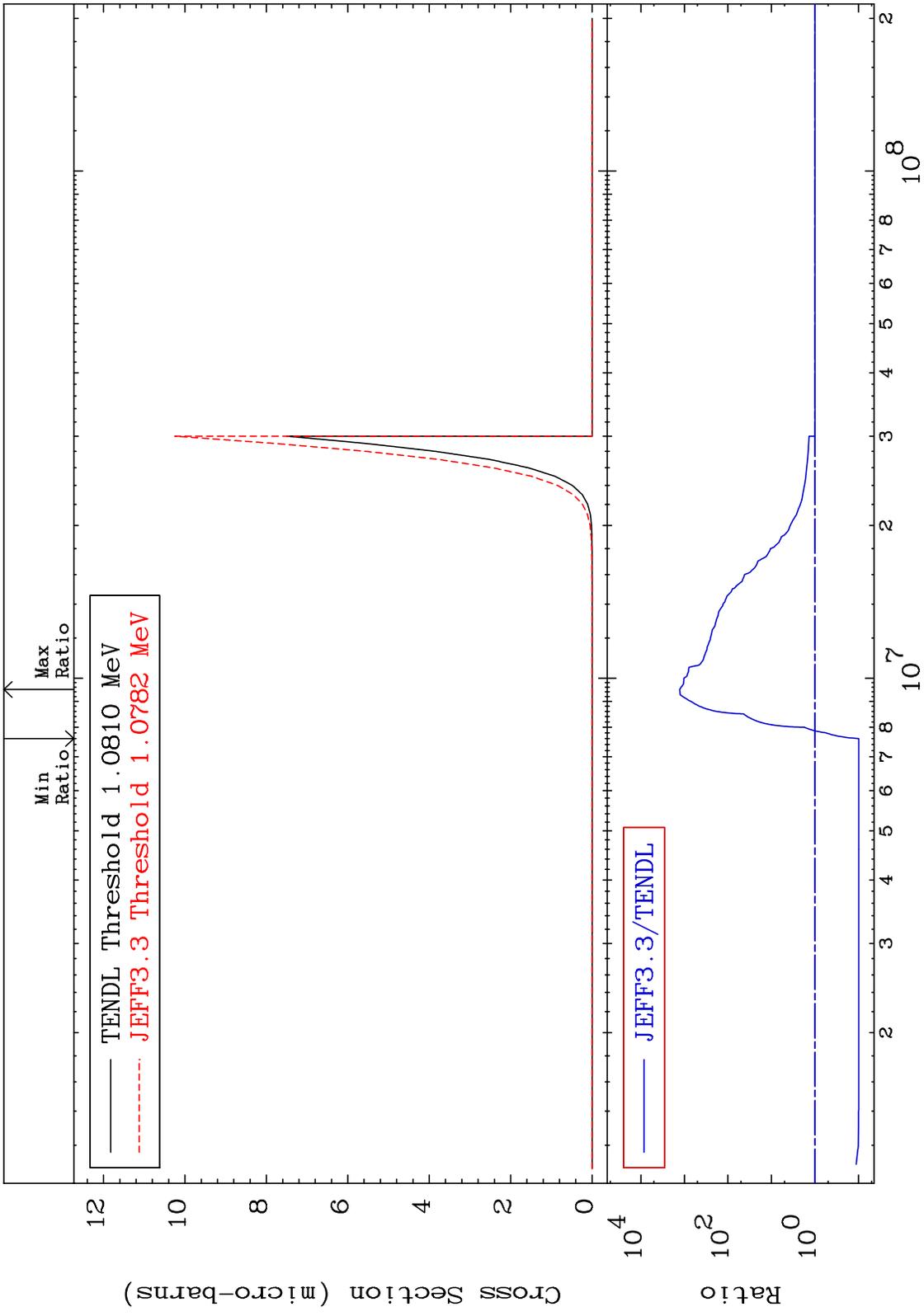




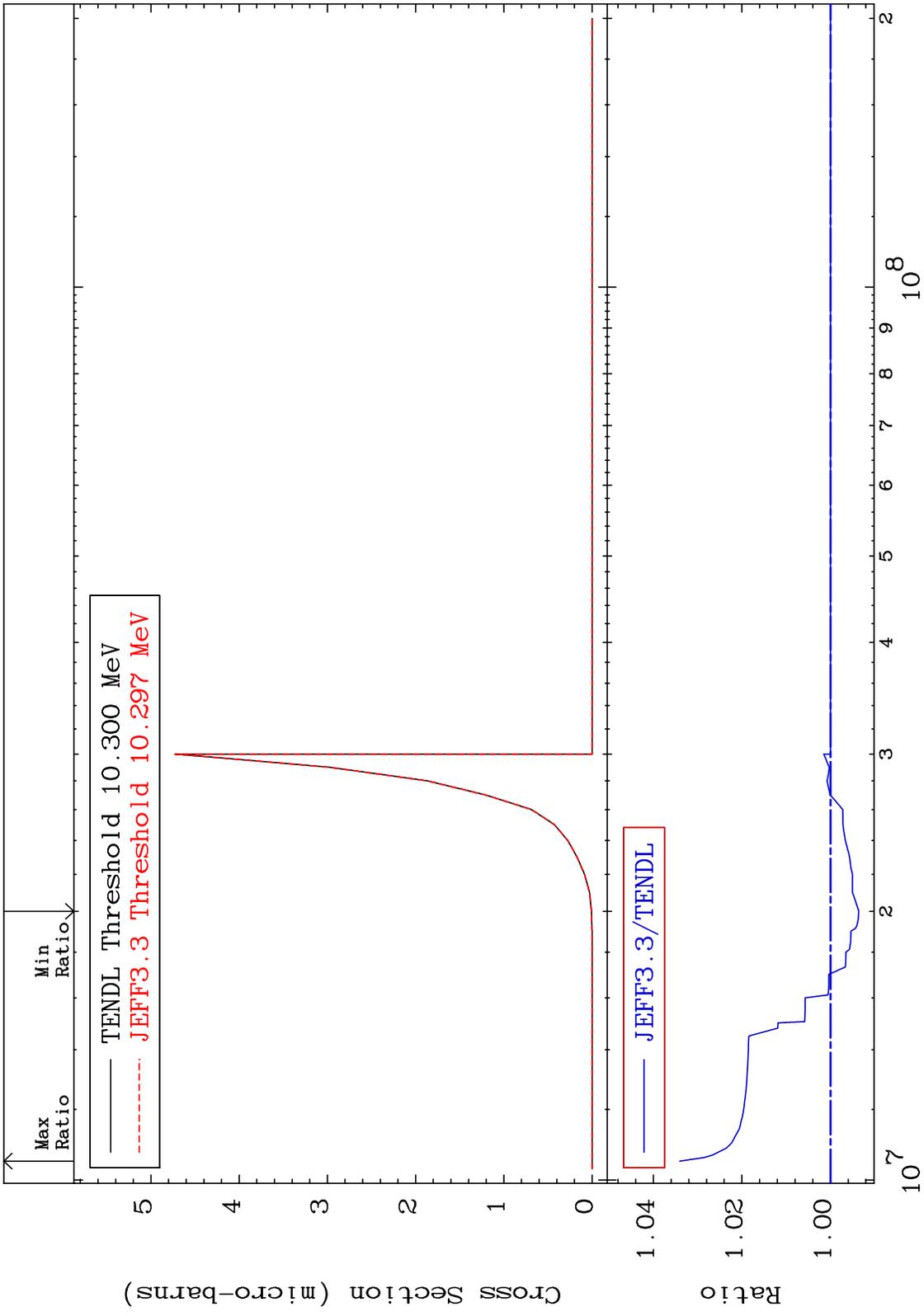
MAT 6025 (n,2p) Cross Section 60-Nd-142 To 9.480 %



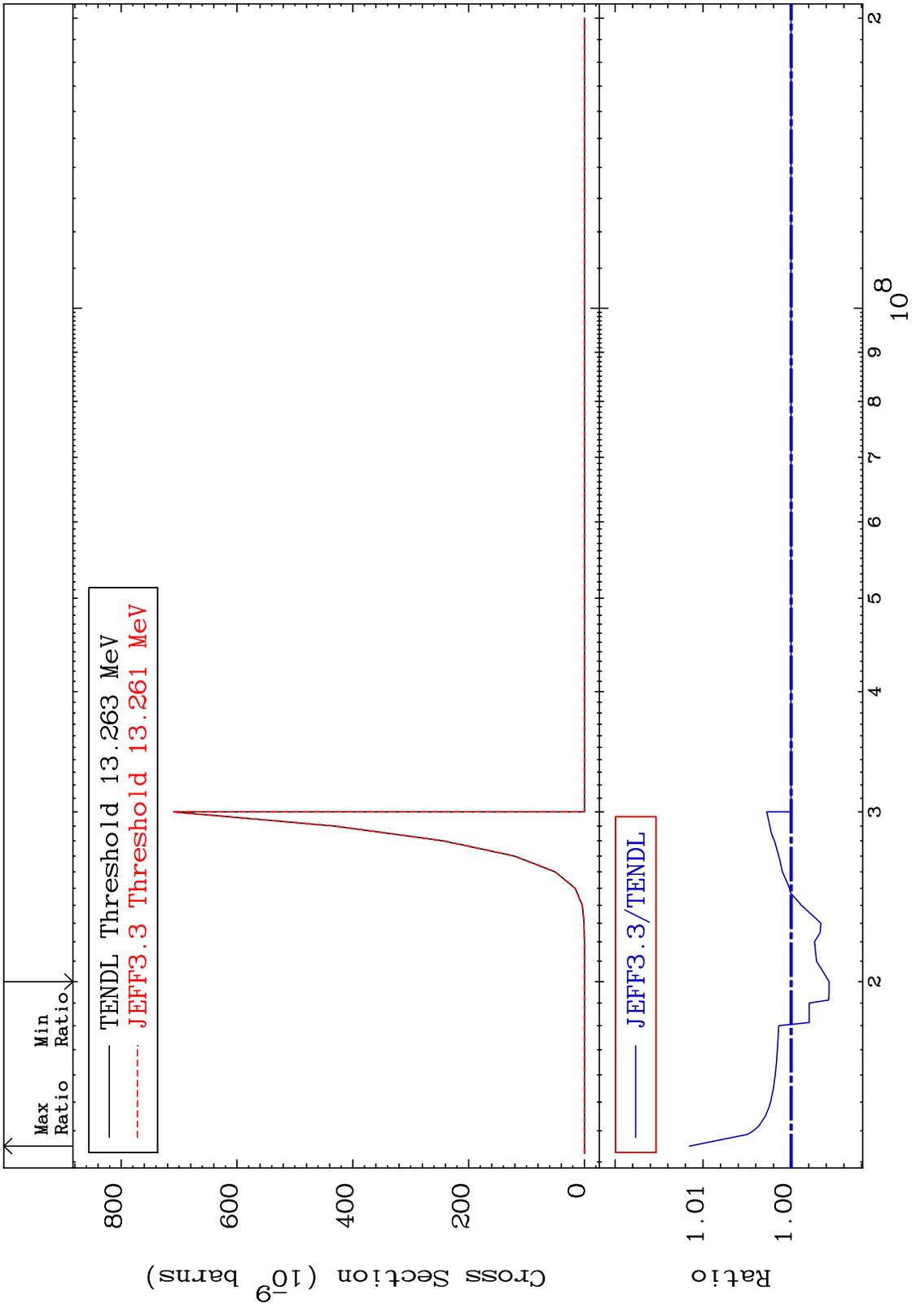
MAT 6025 $(n,p) \alpha$ $^{60}\text{Nd-142}$
 -90.09 To 9999. %



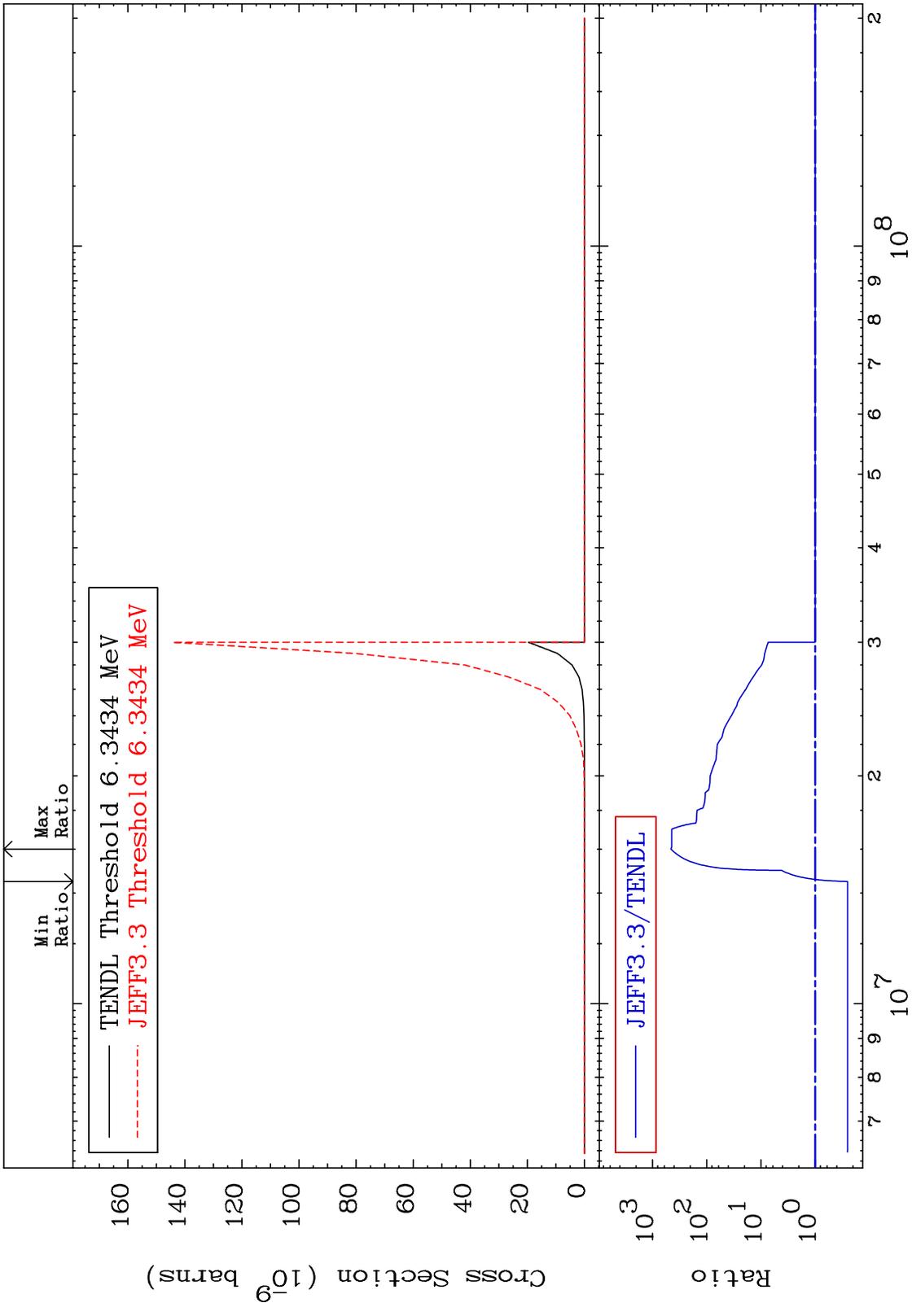
MAT 6025 (n,p) d 60-Nd-142
 Cross Section -0.641 To 3.405 %



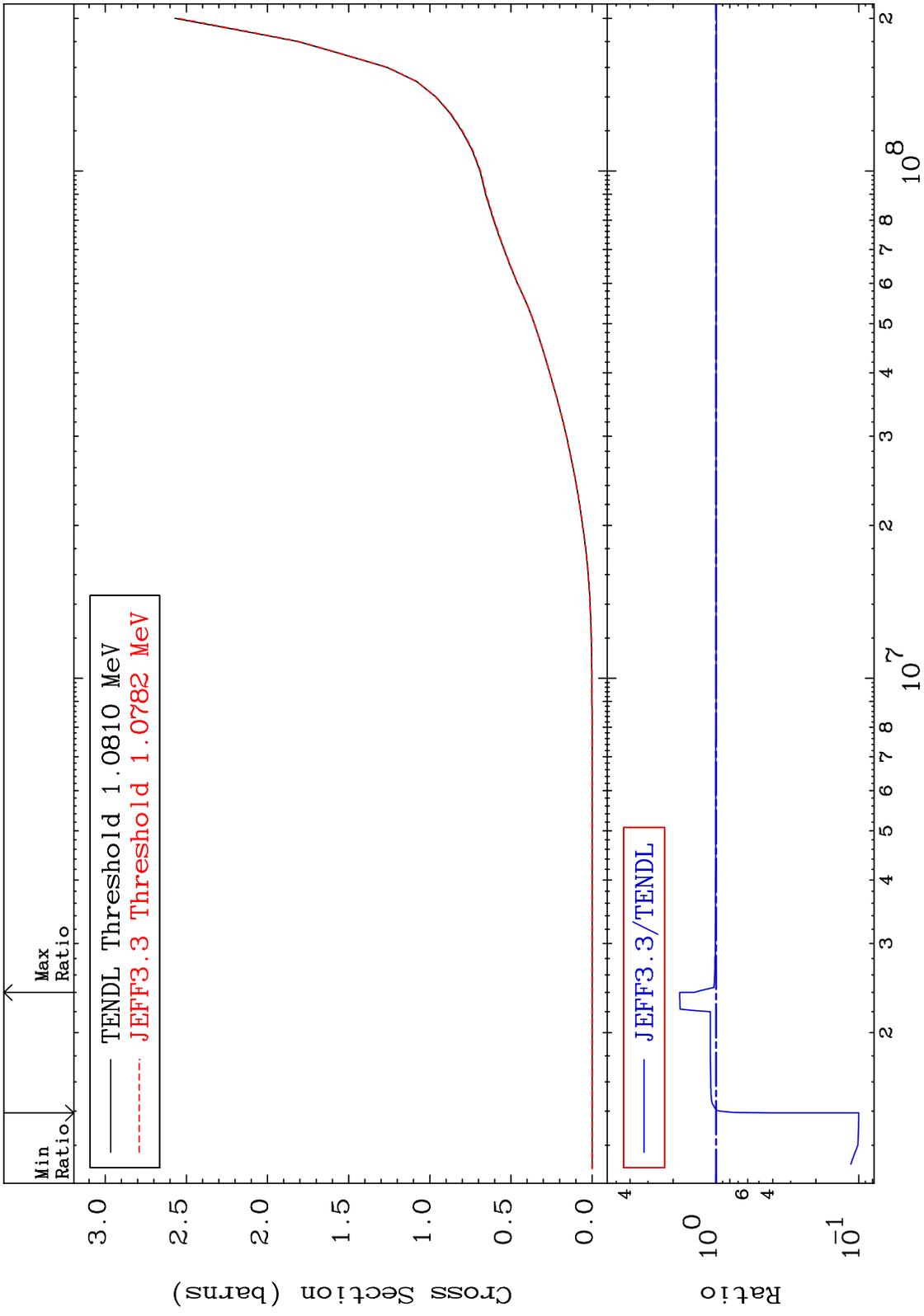
MAT 6025 (n,p) t 60-Nd-142
 Cross Section -0.431 To 1.154 %



MAT 6025 (n,d) α 60-Nd-142
 Cross Section -74.86 To 9999. %

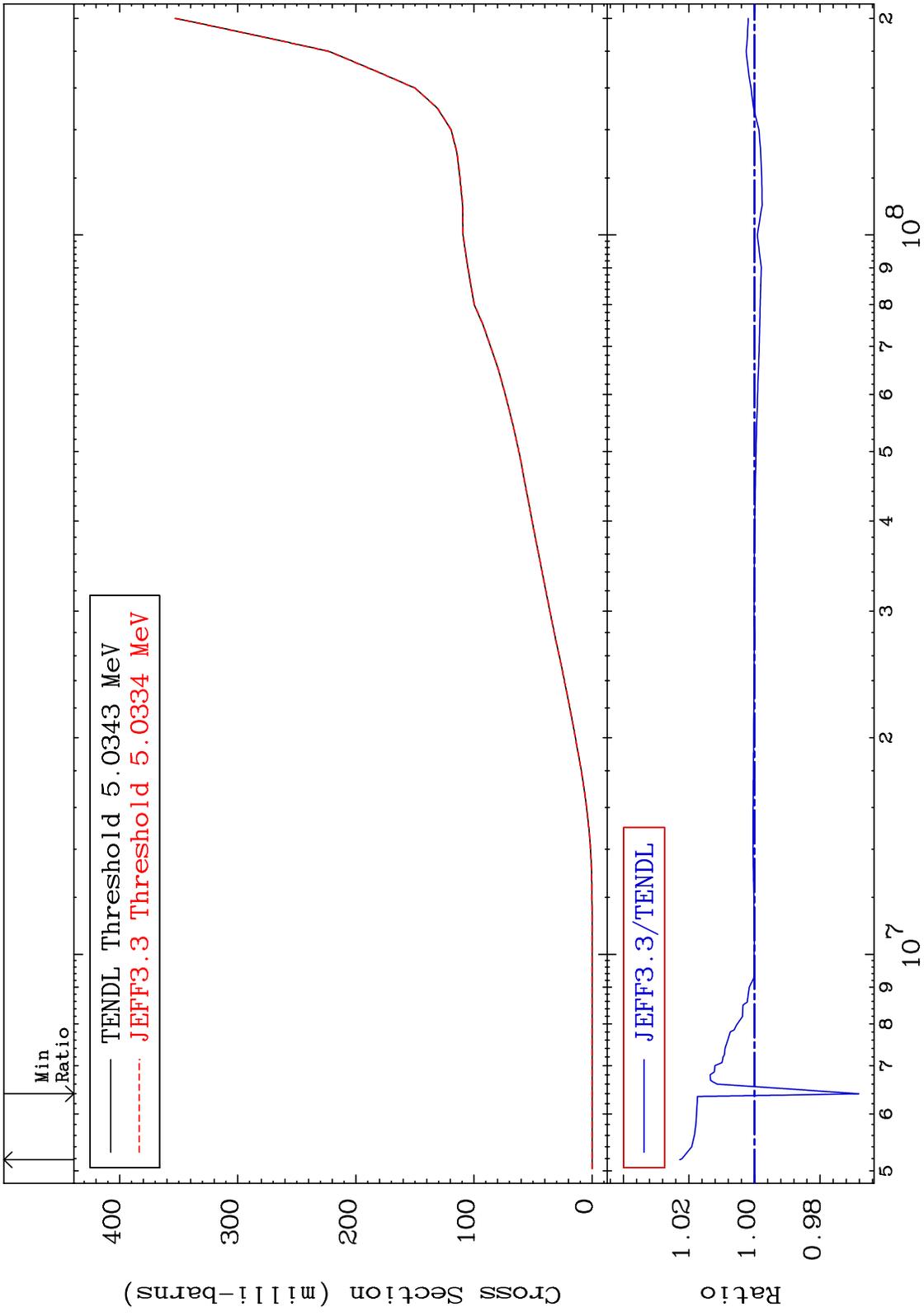


MAT 6025 Hydrogen Production Cross Section 60-Nd-142
 -90.00 To 79.50 %



62 Incident Energy (eV) 60-Nd-142

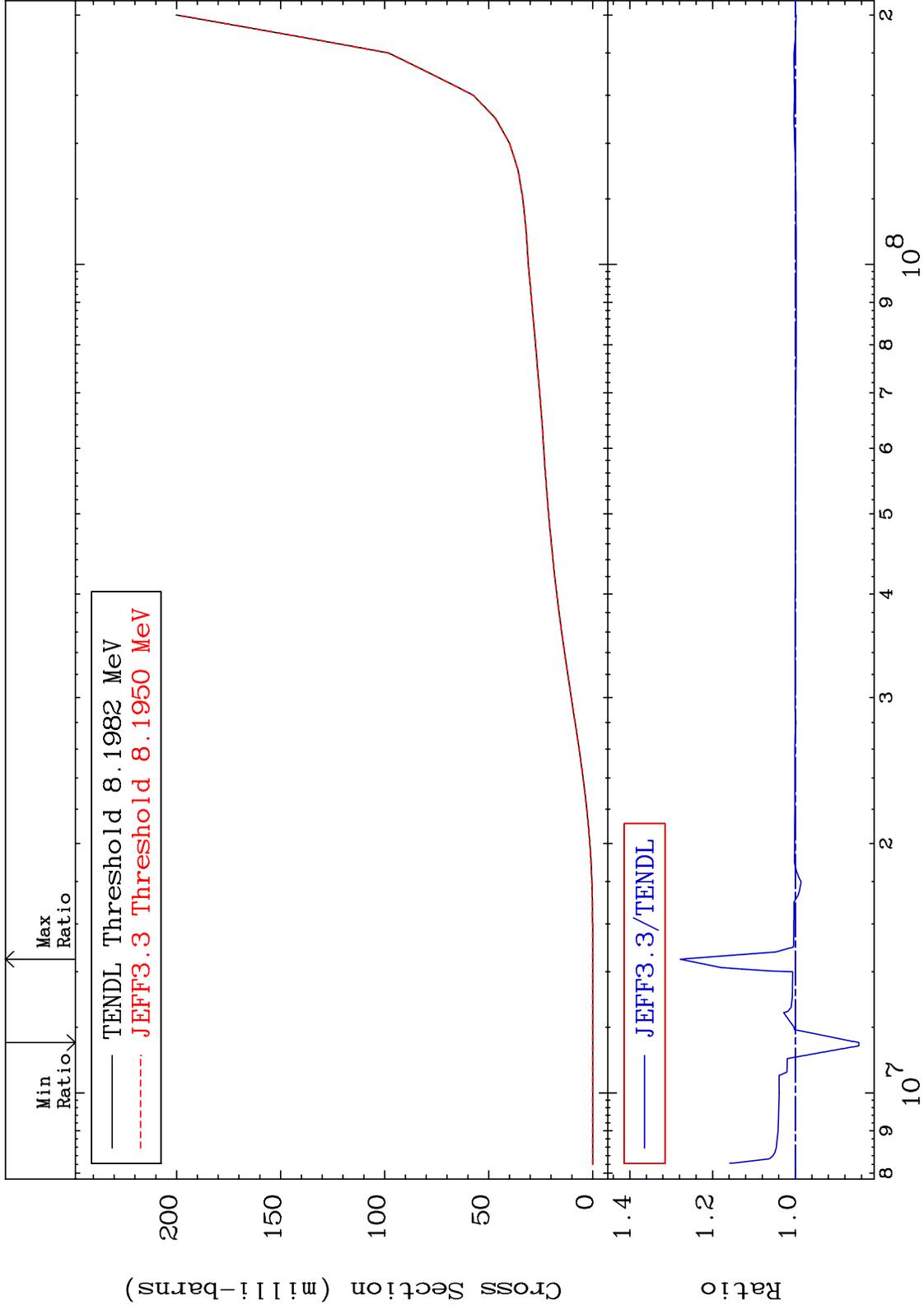
MAT 6025 Deuterium Production Cross Section 60-Nd-142 -3.181 To 2.280 %



MAT 6025

Tritium Production
Cross Section

60-Nd-142
-15.39 To 27.83 %

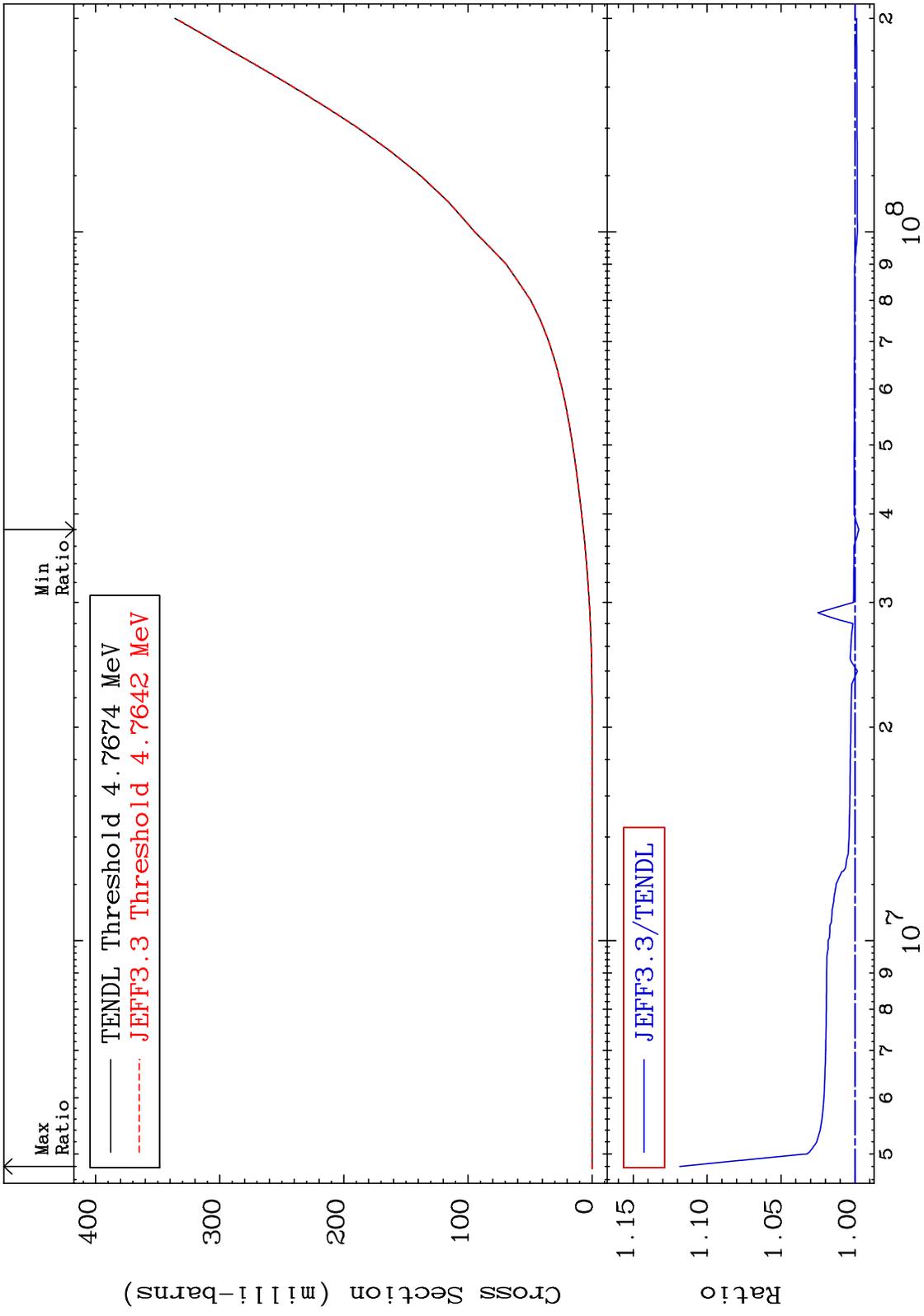


64

Incident Energy (eV)

60-Nd-142

MAT 6025 He-3 Production Cross Section 60-Nd-142
-0.261 To 11.85 %

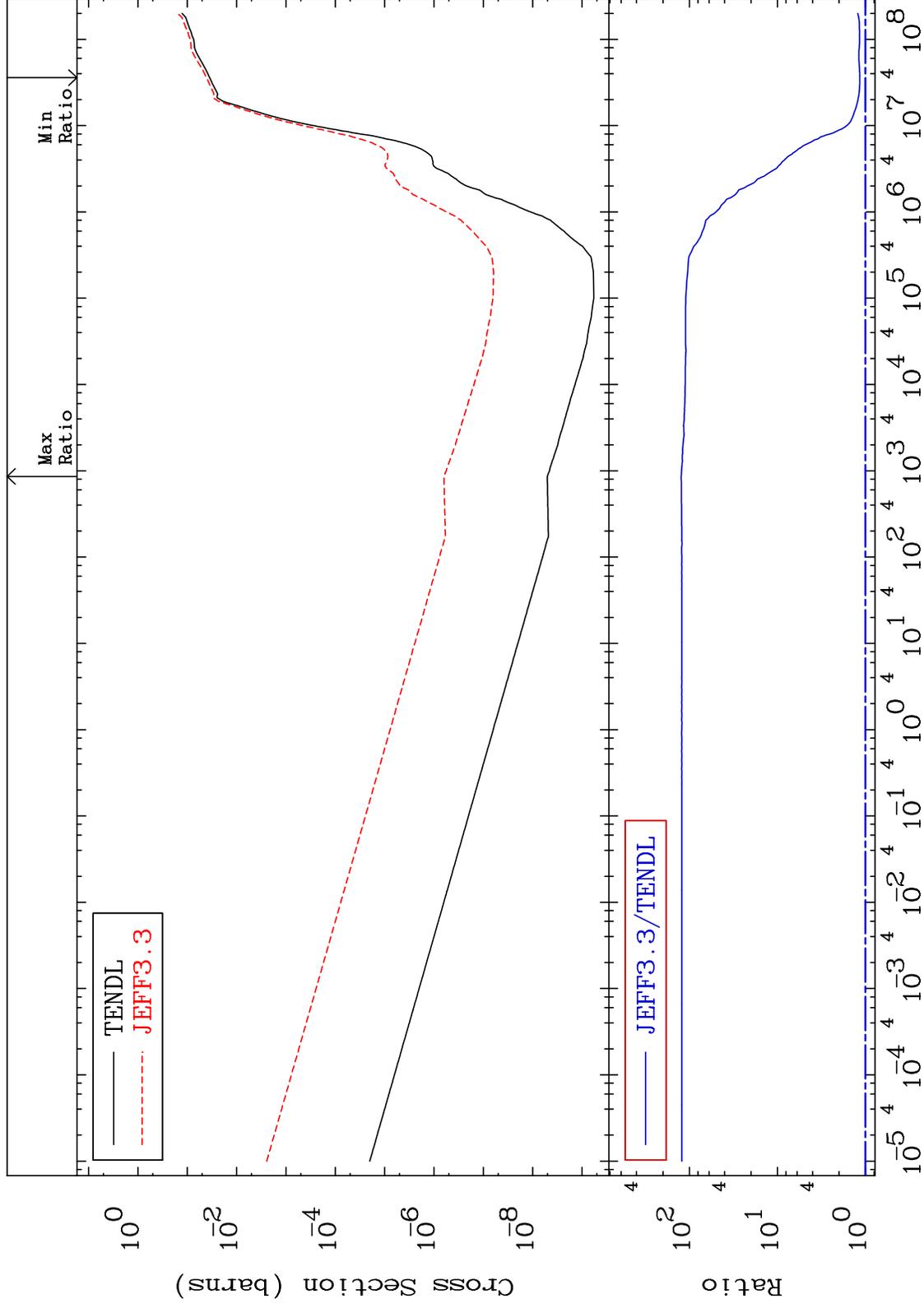


65 60-Nd-142

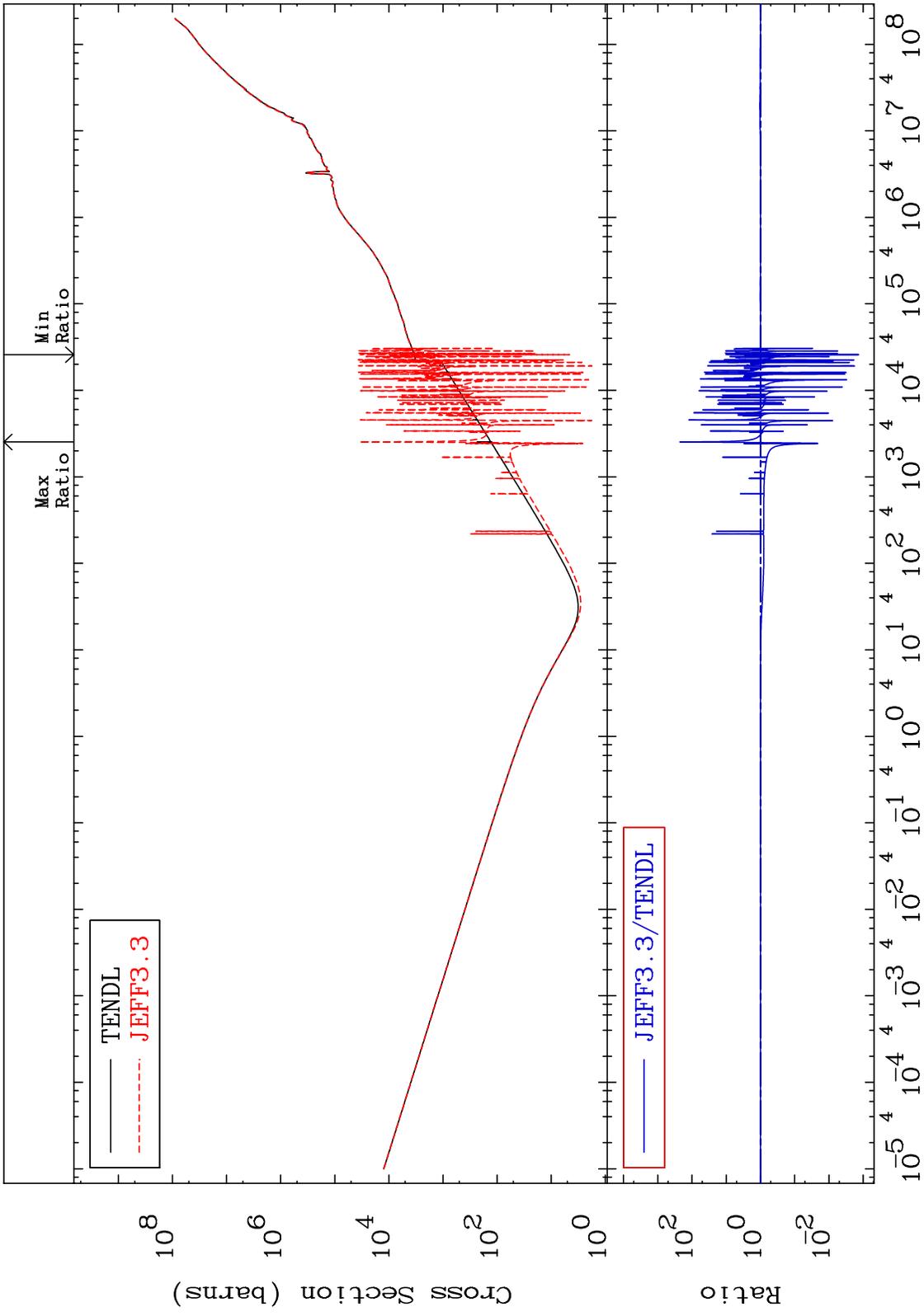
MAT 6025

He-4 Production
Cross Section

60-Nd-142
16.17 To 9999. %



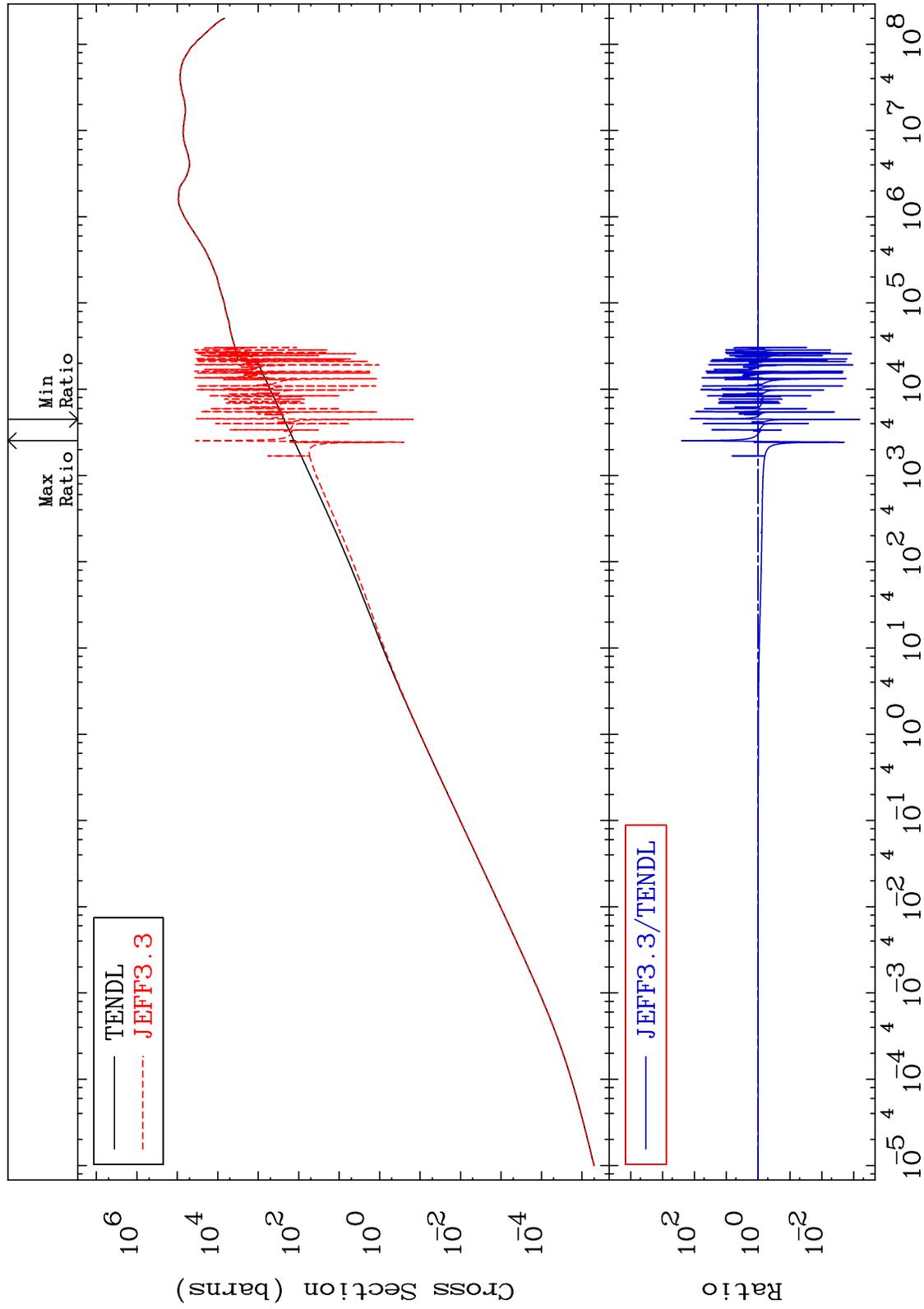
MAT 6025 Kerma total (eV-barns)
Cross Section 60-Nd-142
-99.87 To 9999. %



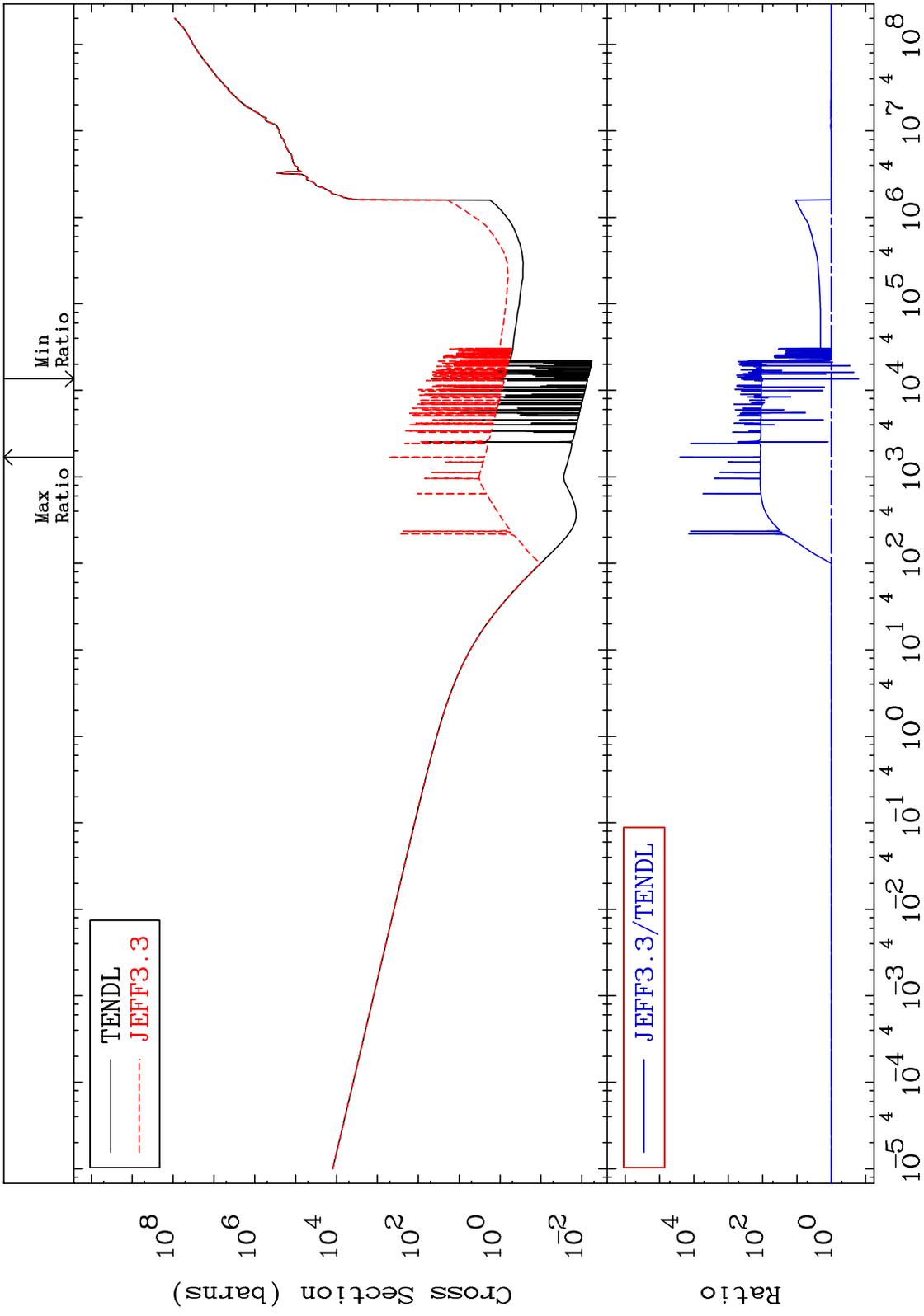
MAT 6025

Kerma elastic
Cross Section

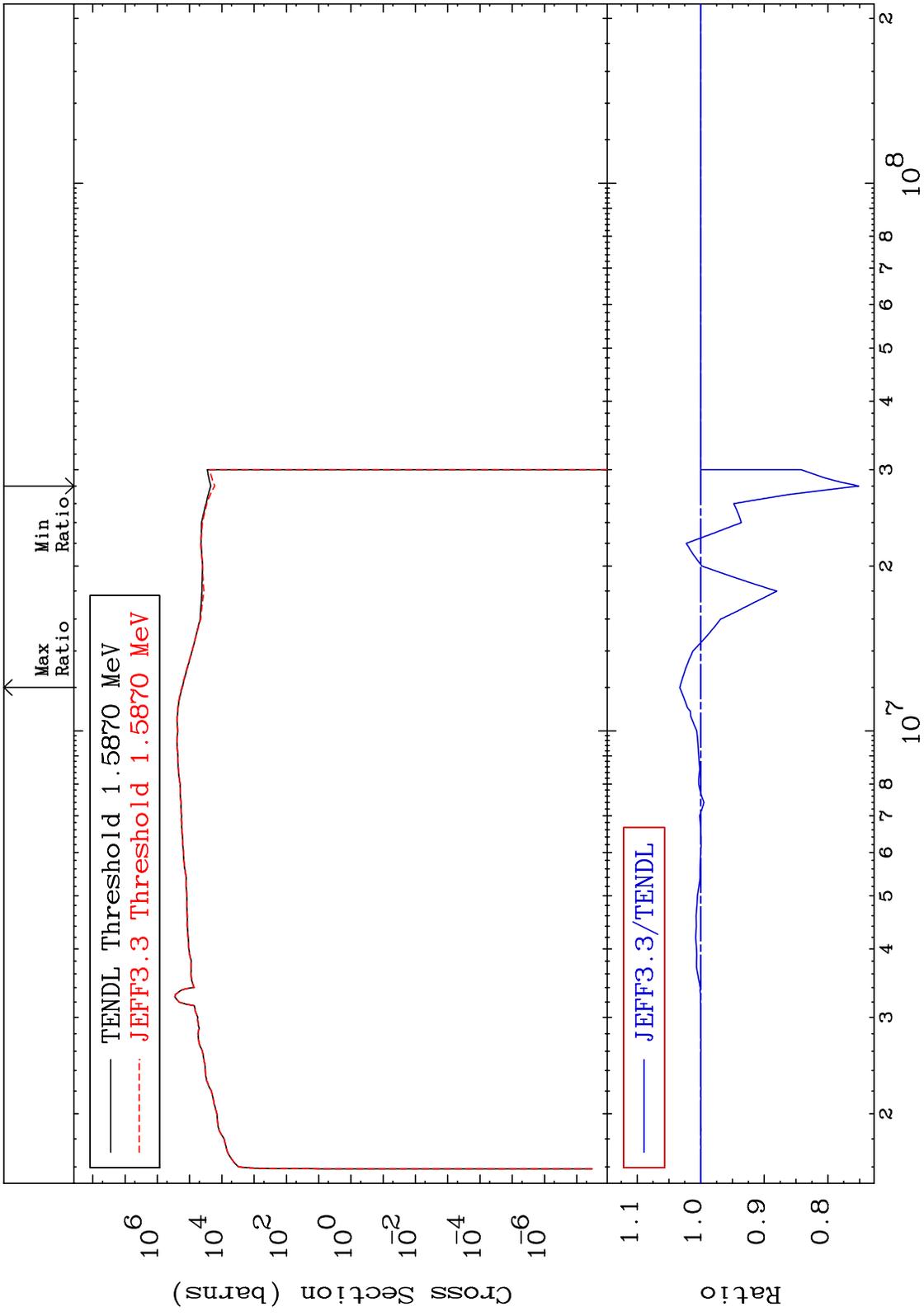
60-Nd-142
-99.94 To 9999. %



MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142
 -84.19 To 9999. %
 Cross Section



MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142
Cross Section -24.88 To 3.295 %

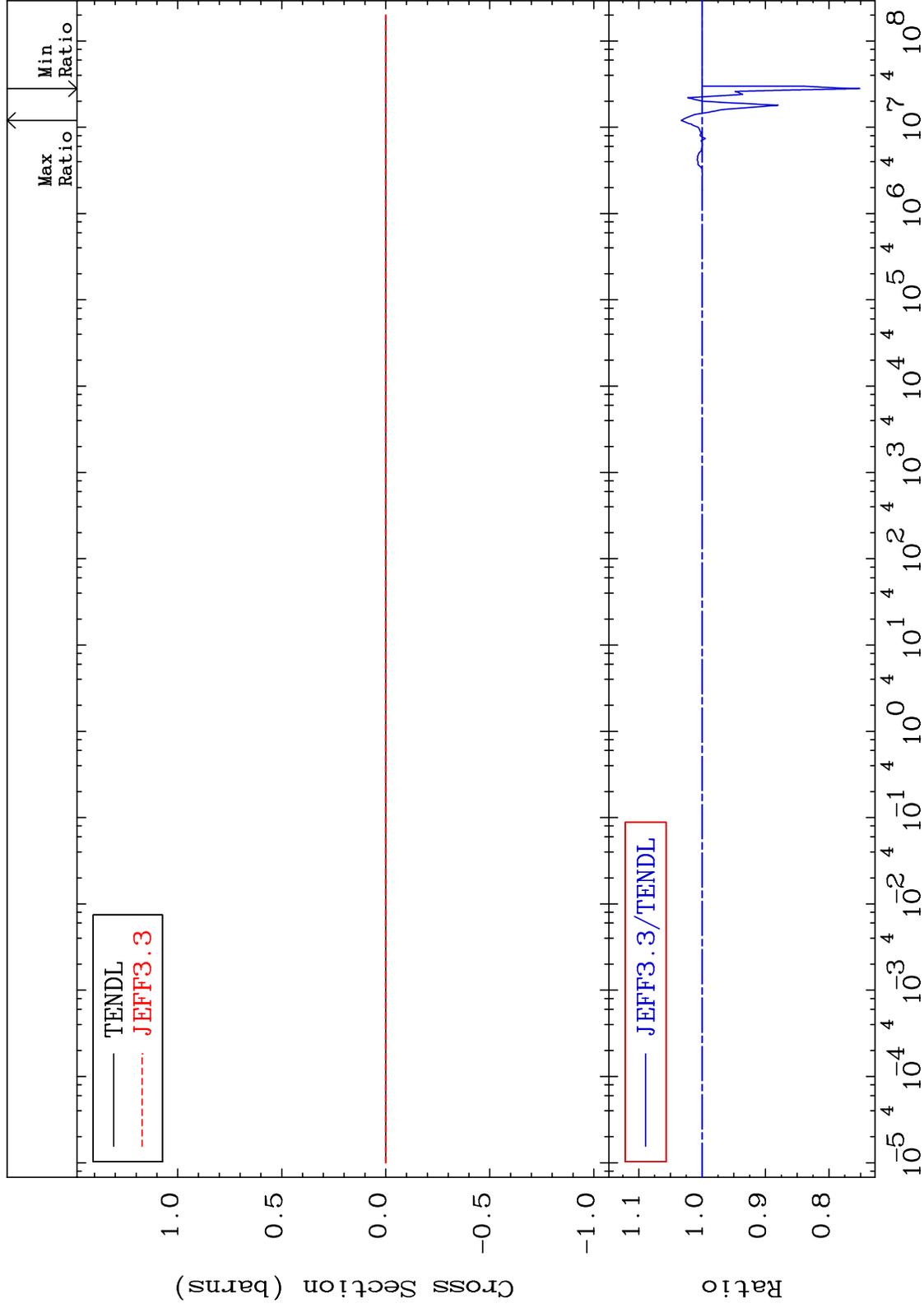


70 Incident Energy (eV) 60-Nd-142

MAT 6025

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

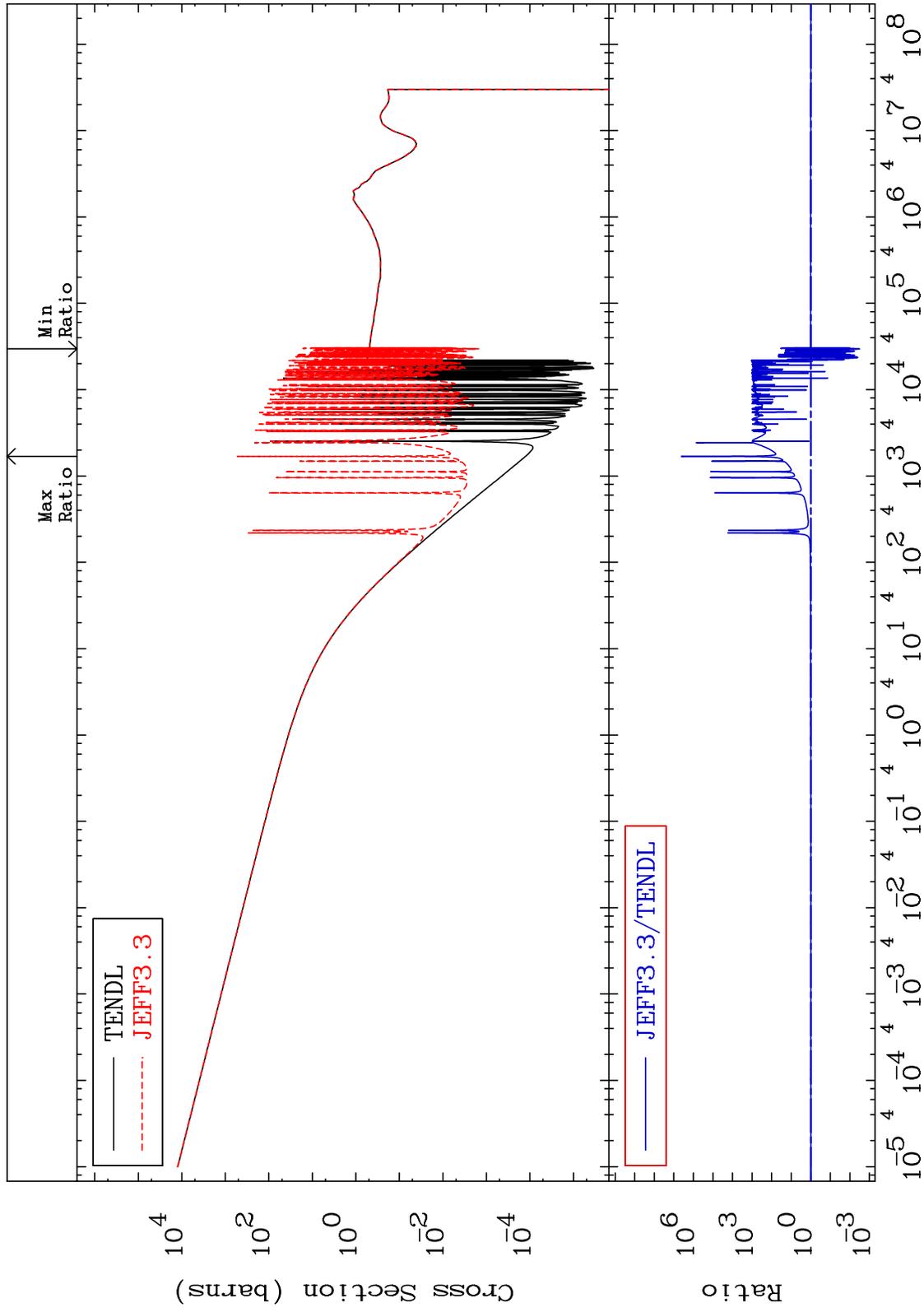
60-Nd-142
-24.88 To 3.295 %



MAT 6025

Kerma capture (mt102)
Cross Section

60-Nd-142
-99.69 To 9999. %

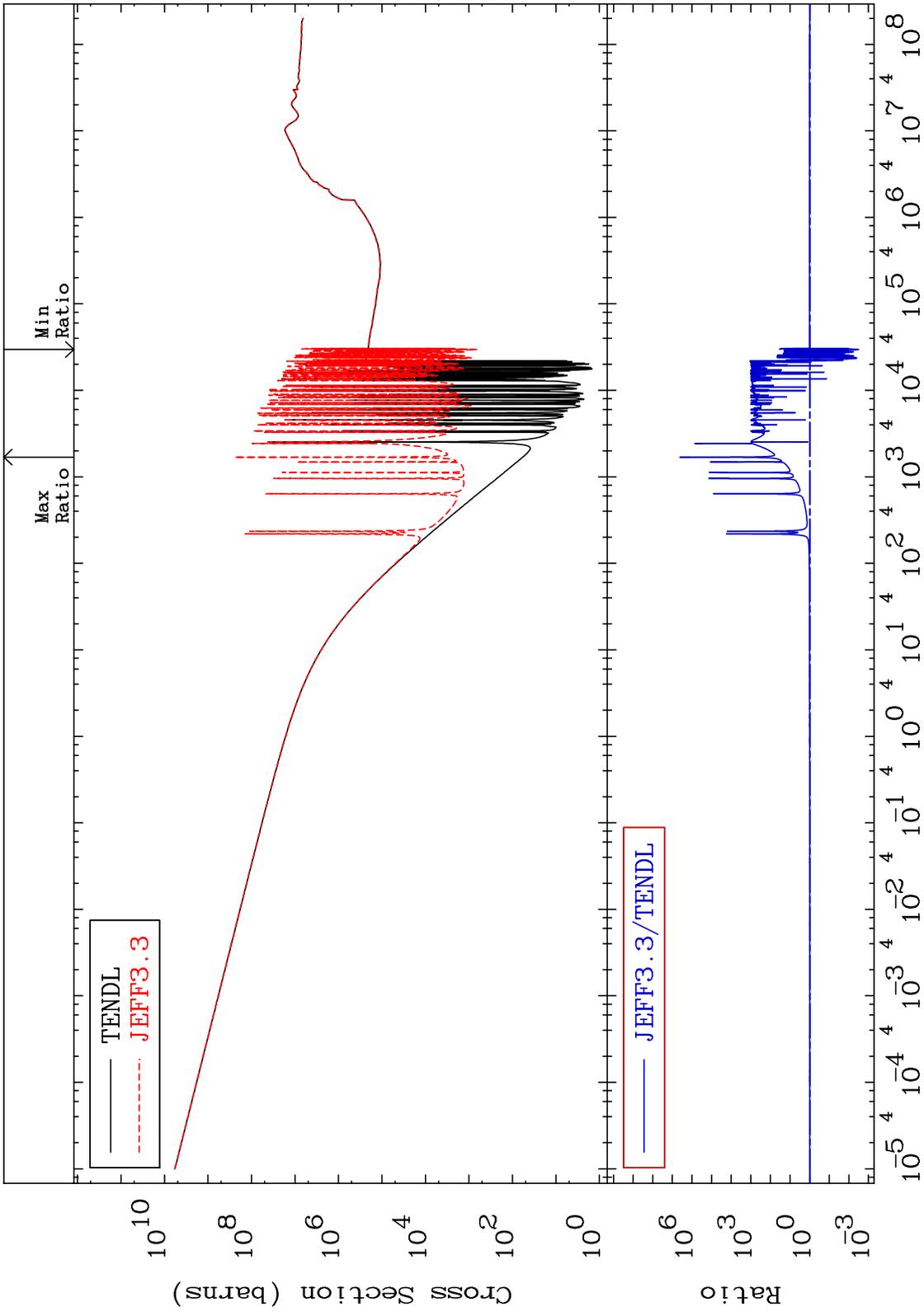


72

Incident Energy (eV)

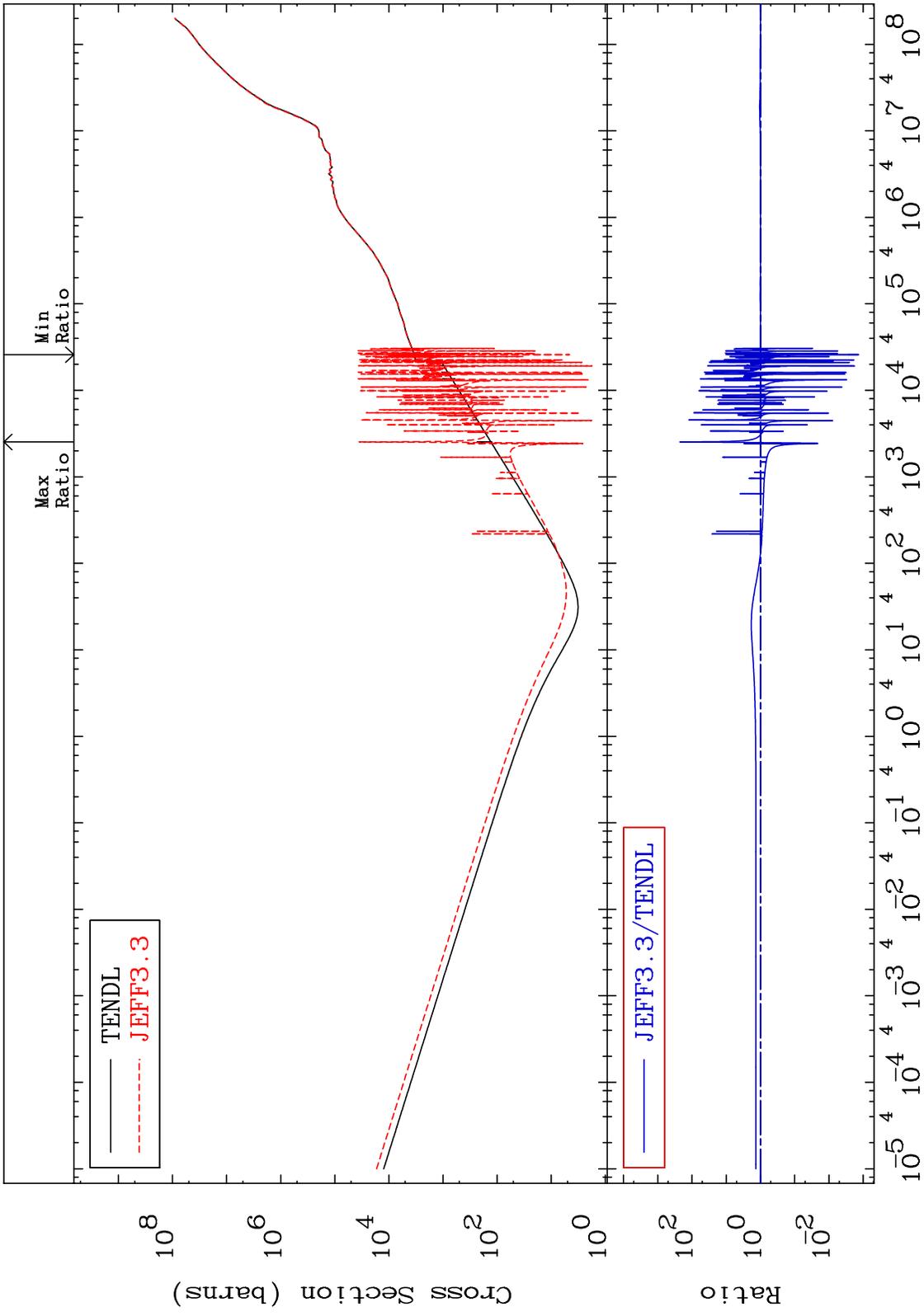
60-Nd-142

MAT 6025
Total photon (eV-barns)
Cross Section
60-Nd-142
-99.69 To 9999. %

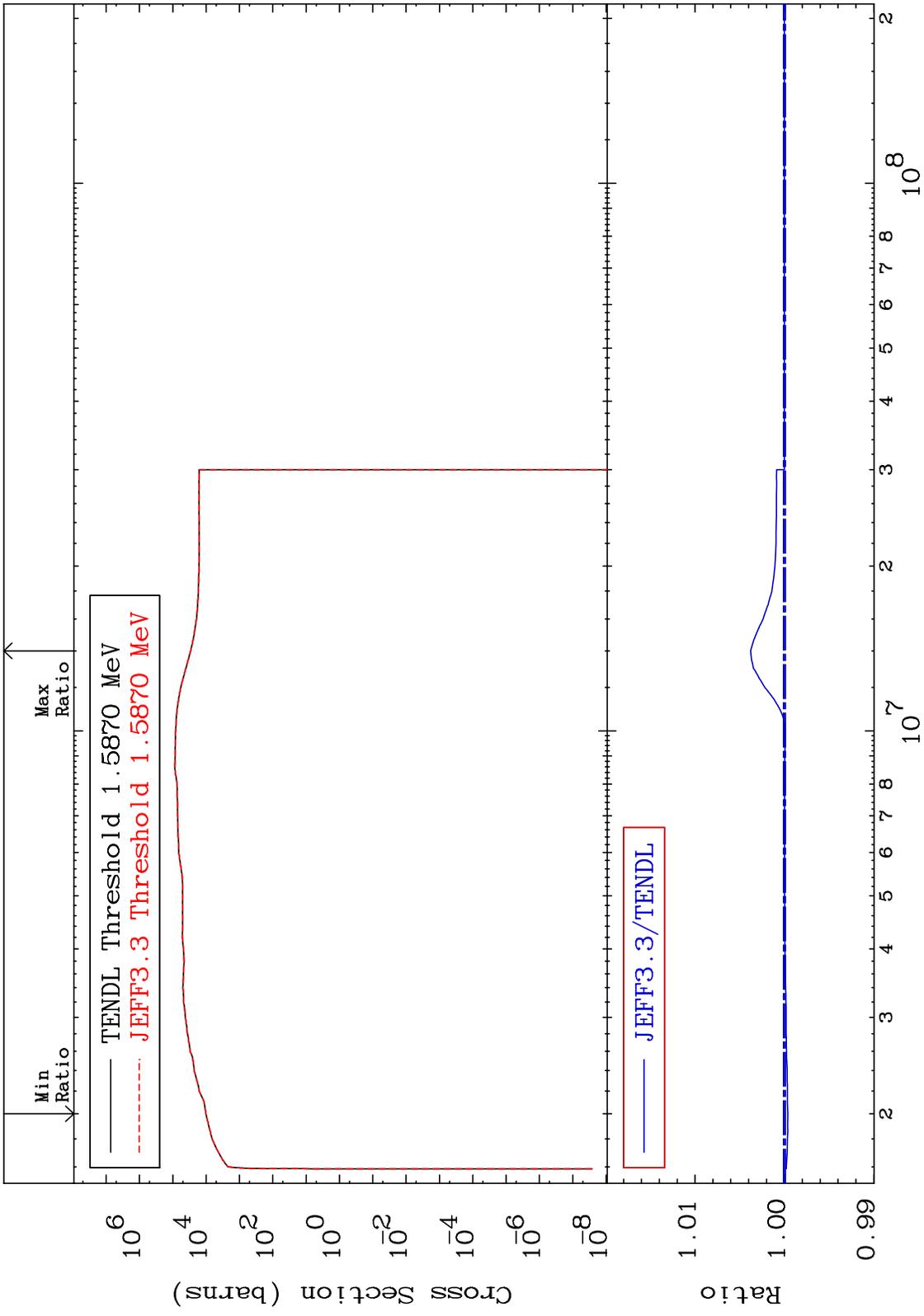


73
Incident Energy (eV)
60-Nd-142

MAT 6025 Total kinematic kerma (high limit) 60-Nd-142
 Cross Section -99.87 To 9999. %



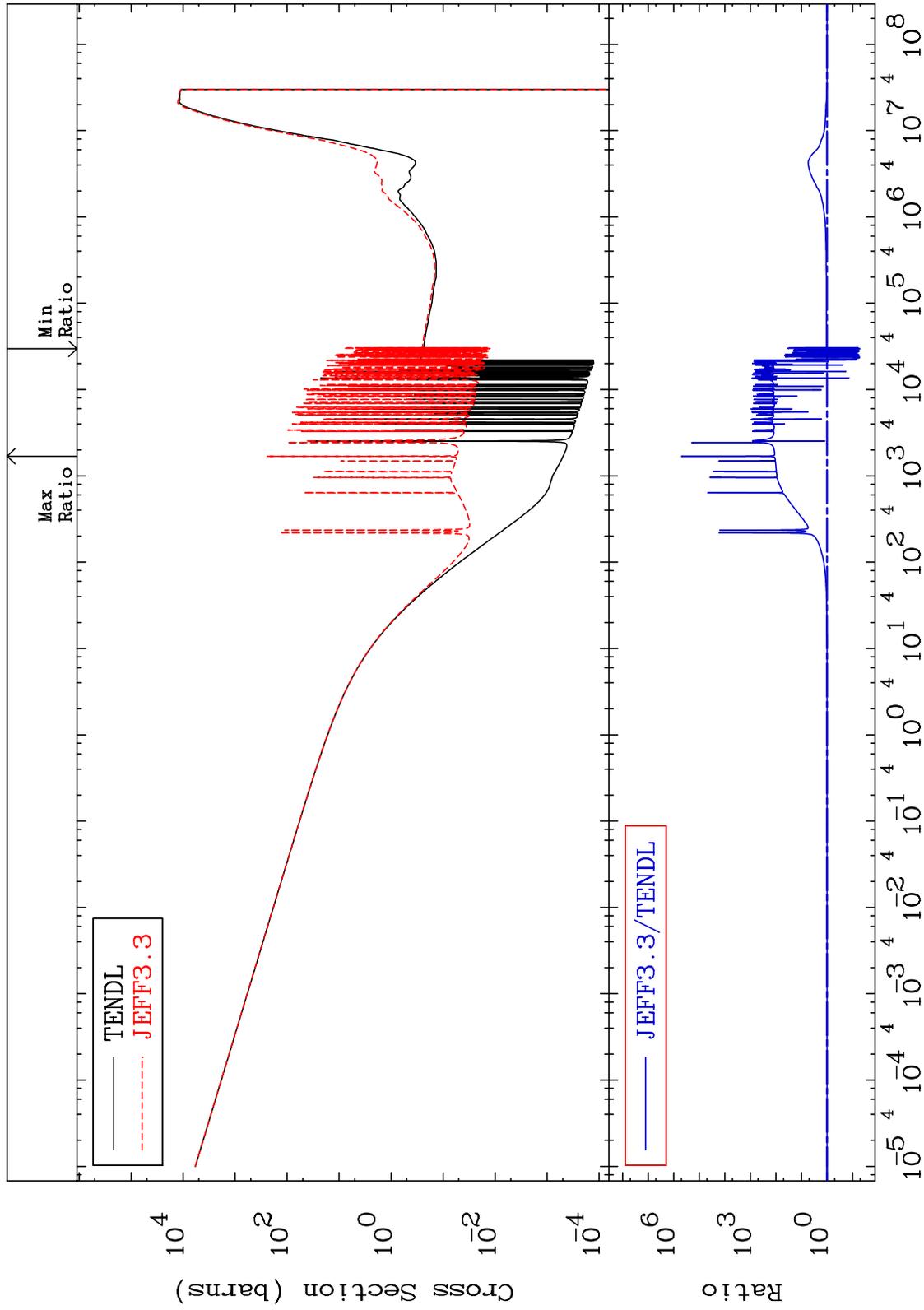
MAT 6025 Dpa inelastic (mt51-91) 60-Nd-142
 Cross Section -0.039 To 0.378 %



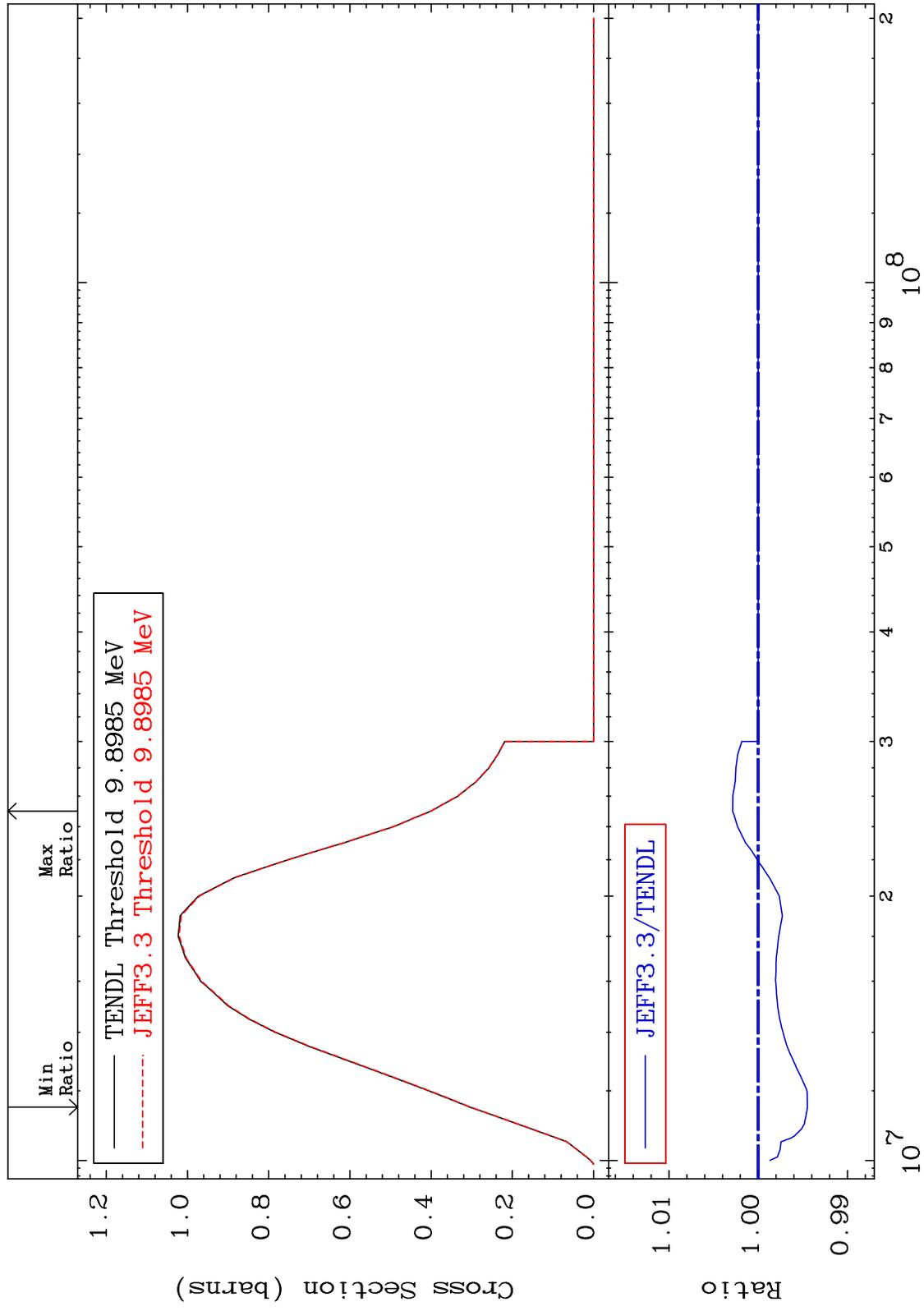
MAT 6025

Dpa disappearance (mt102 -120)
Cross Section

60-Nd-142
-94.77 To 9999. %

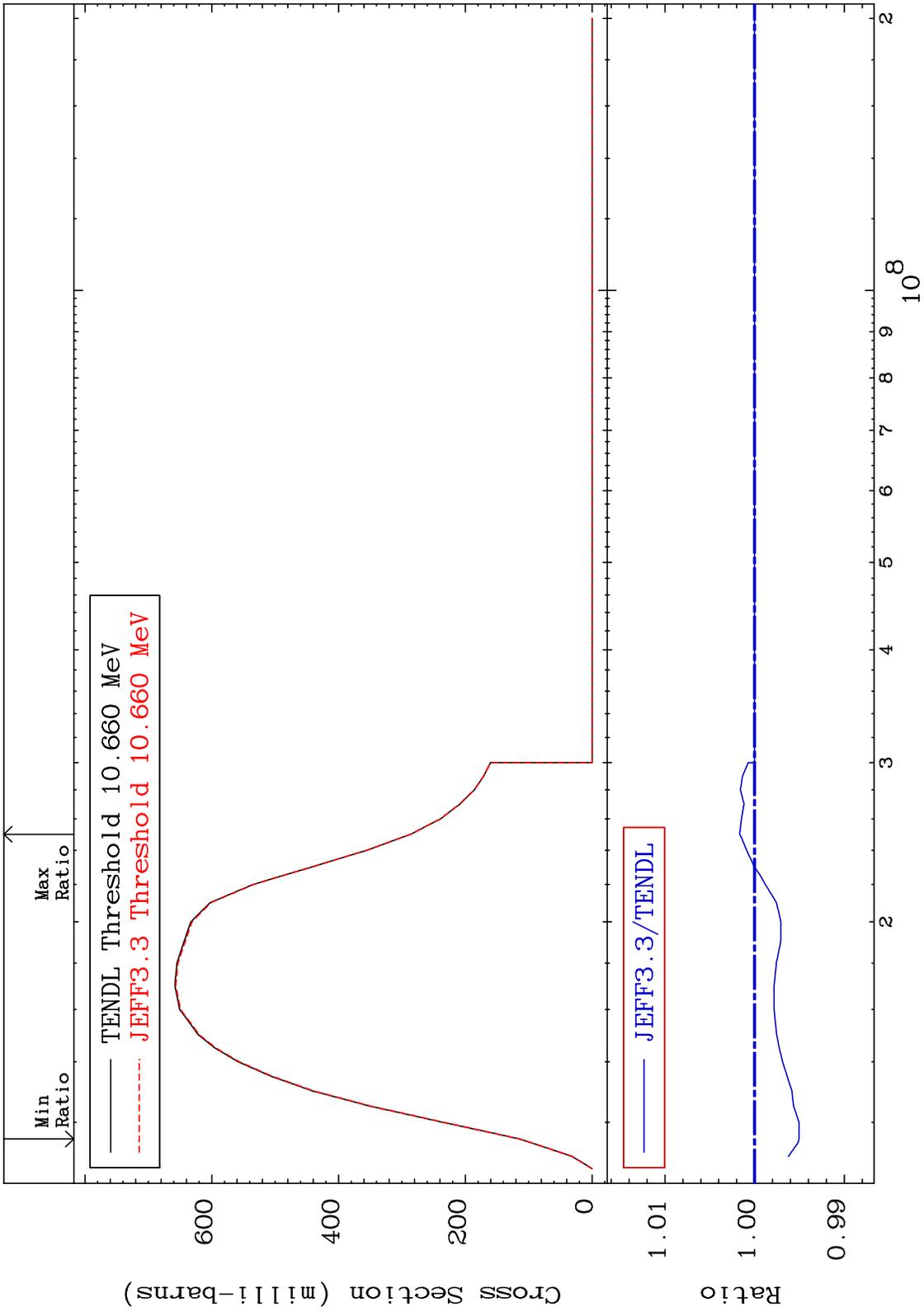


MAT 6025 (n,2n):60-Nd-141g 60-Nd-142
Radionuclide Production Cross Section -0.551 To 0.287 %

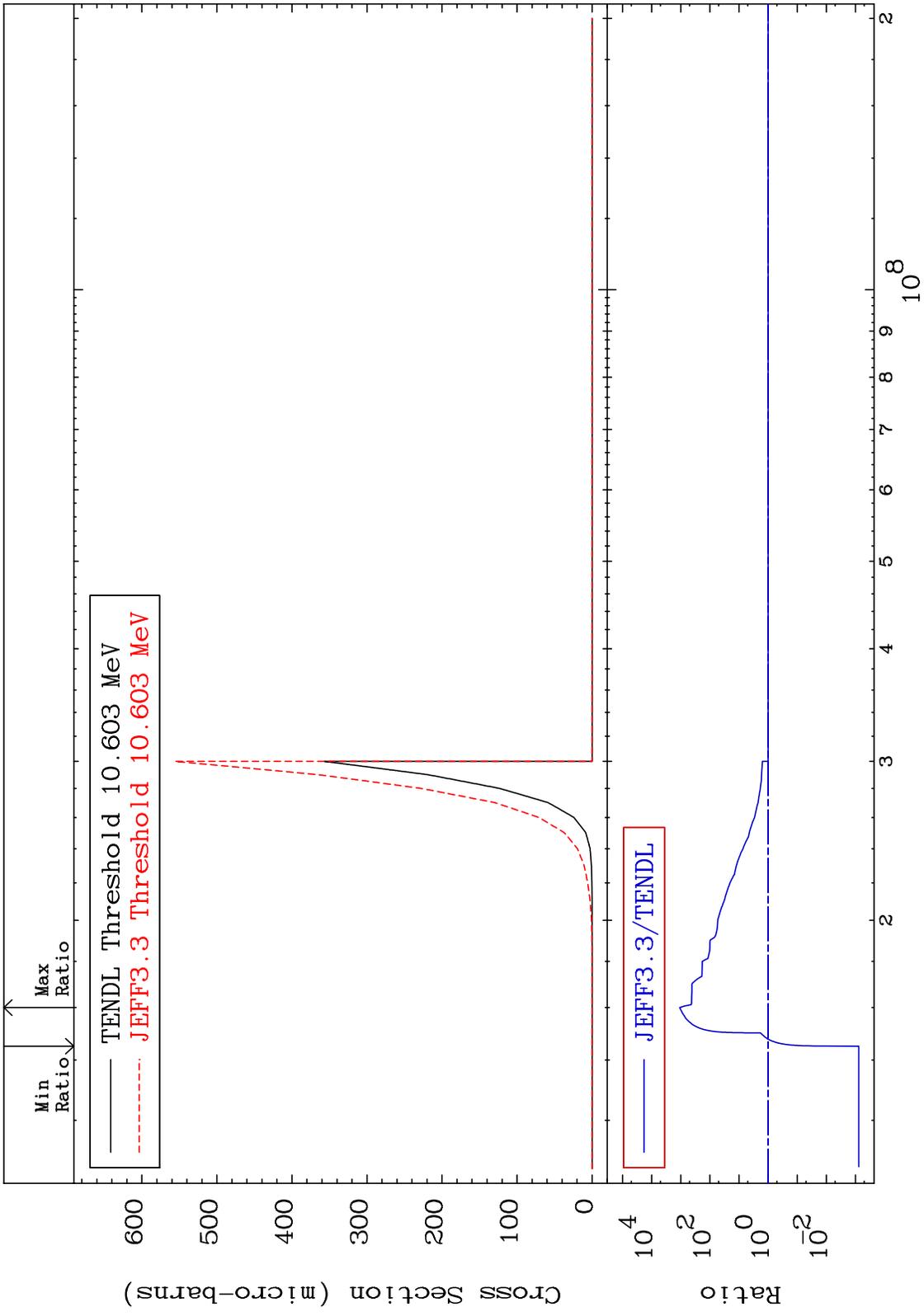


79 Incident Energy (eV) 60-Nd-142

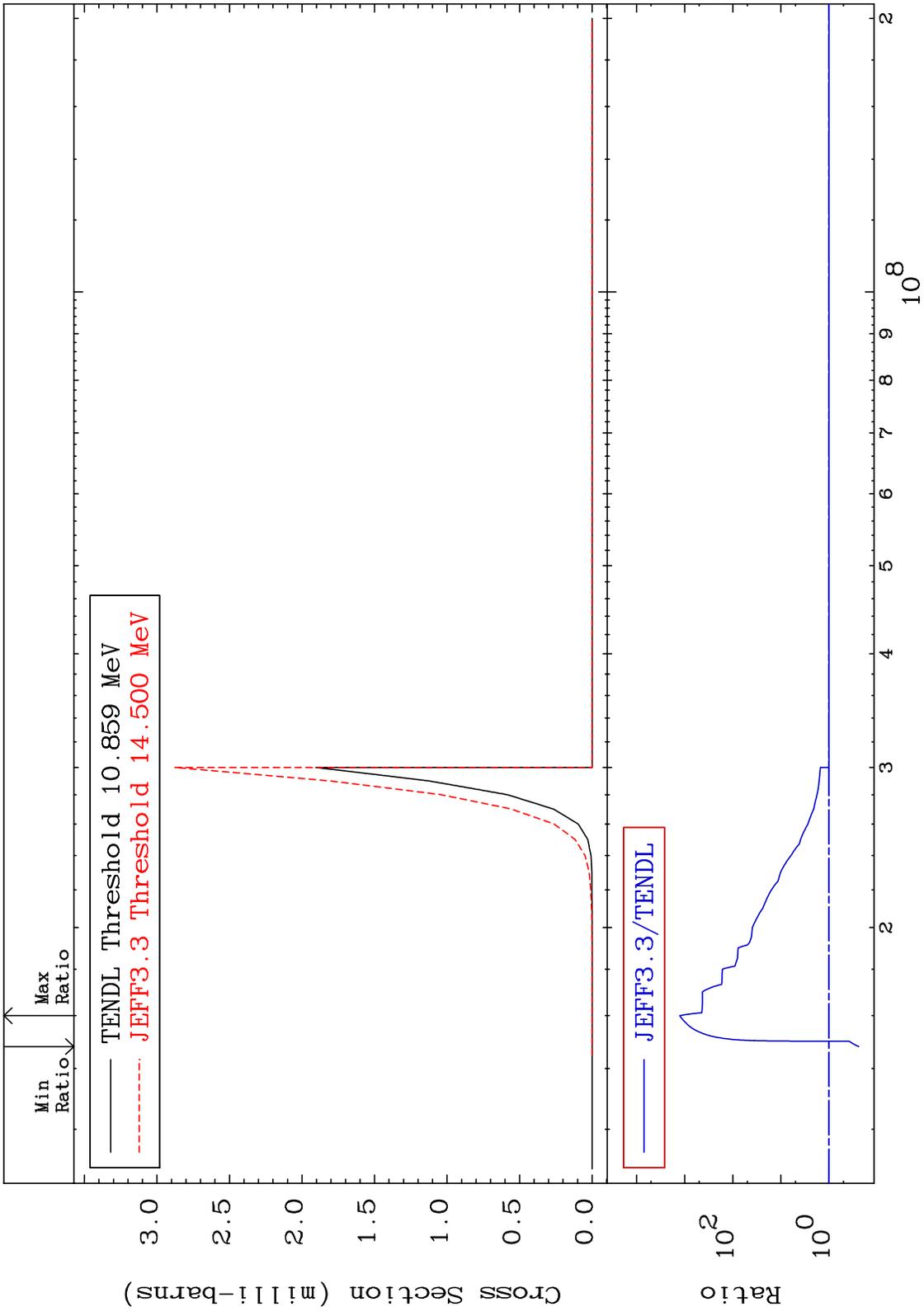
MAT 6025 (n,2n):60-Nd-141m2 60-Nd-142
Radionuclide Production Cross Section -0.494 To 0.167 %



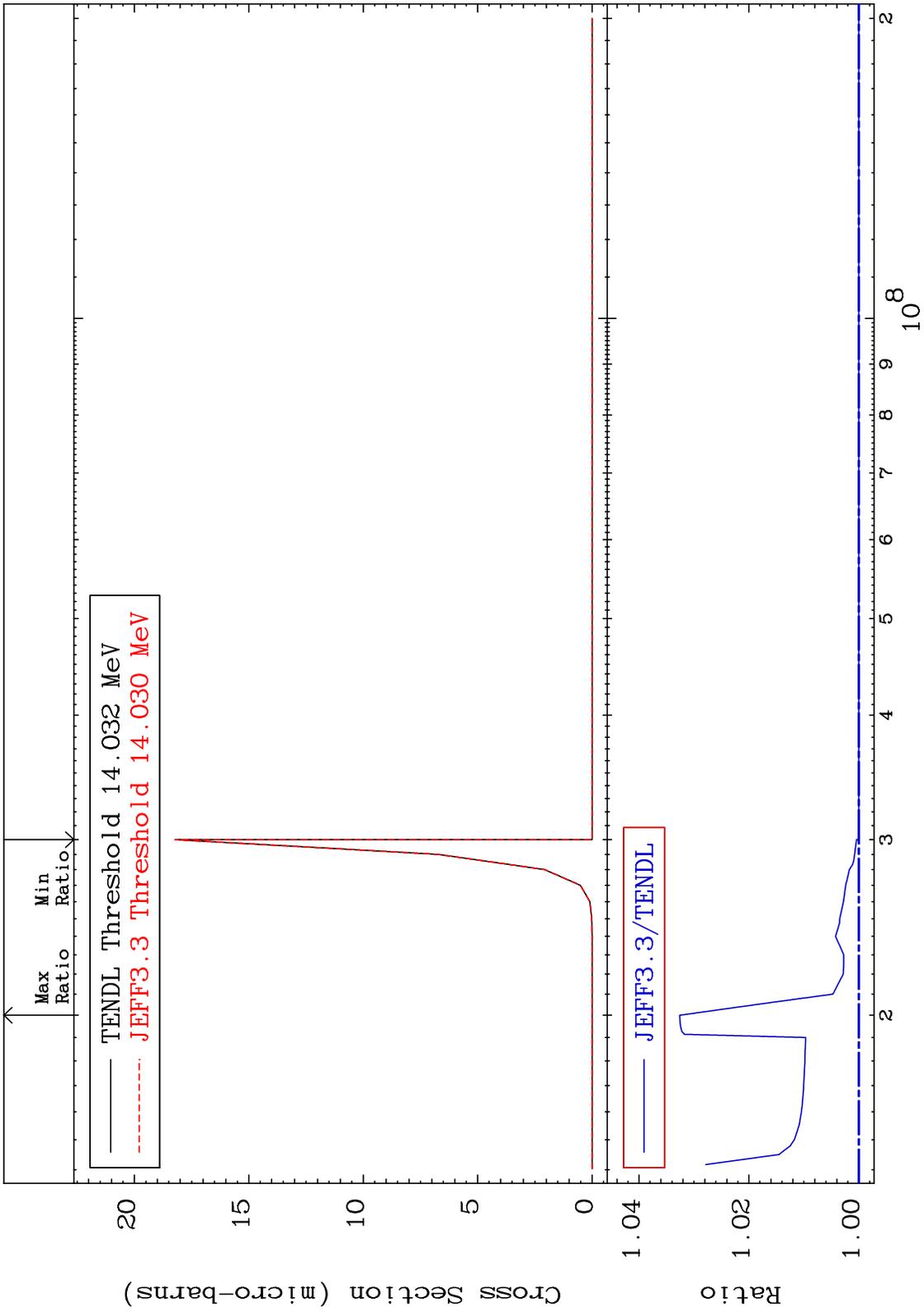
MAT 6025 (n,2n) α :58-Ce-137g 60-Nd-142
 Radionuclide Production Cross Section -99.92 To 9999. %



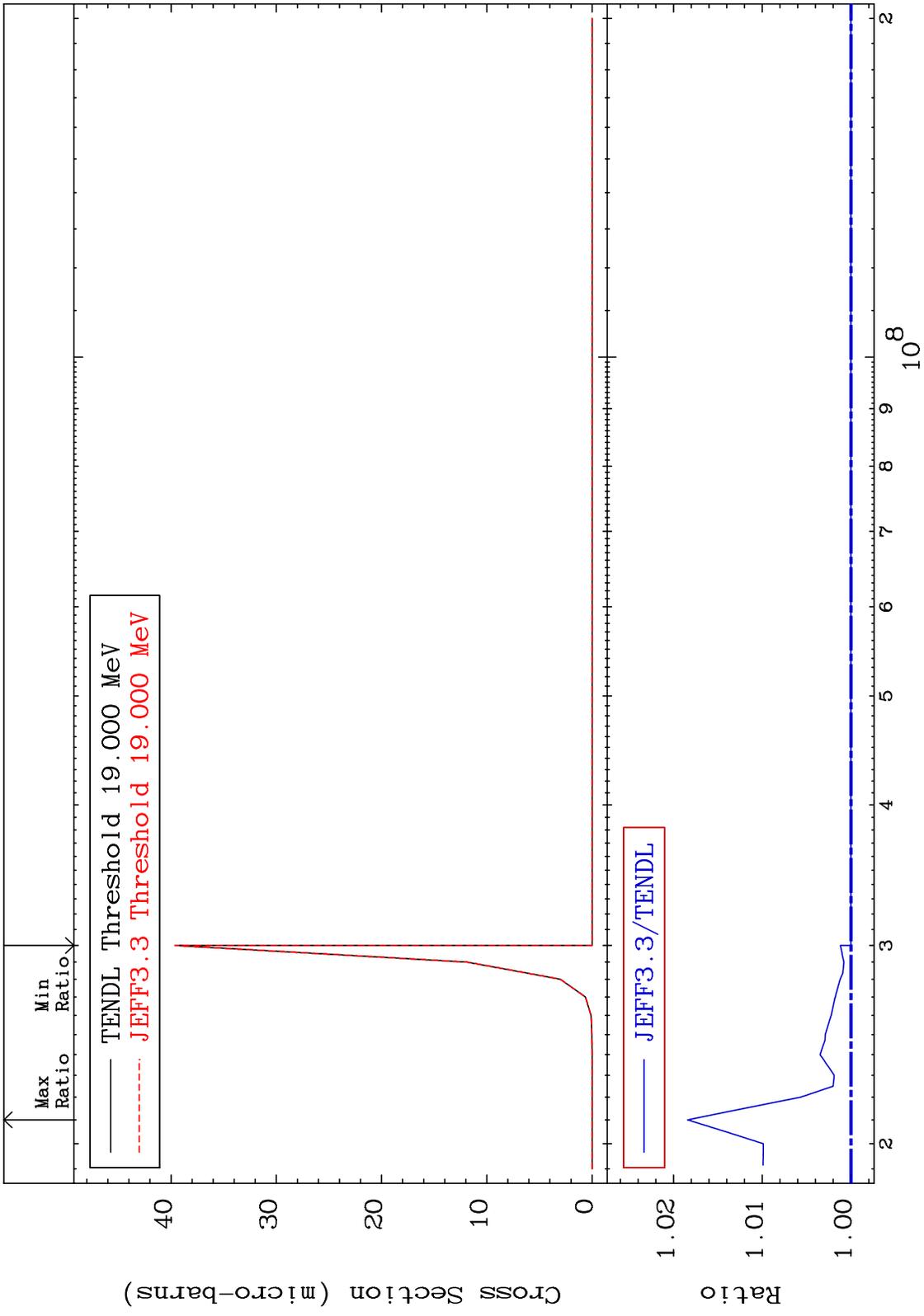
MAT 6025 (n,2n) α :58-Ce-137m2 60-Nd-142
 Radionuclide Production Cross Section -75.95 To 9999. %



MAT 6025 (n,n') He-3:58-Ce-139g 60-Nd-142
 Radionuclide Production Cross Section 0.000 To 3.258 %



MAT 6025 (n, n') He-3:58-Ce-139m2 60-Nd-142
 Radionuclide Production Cross Section 0.000 To 1.842 %

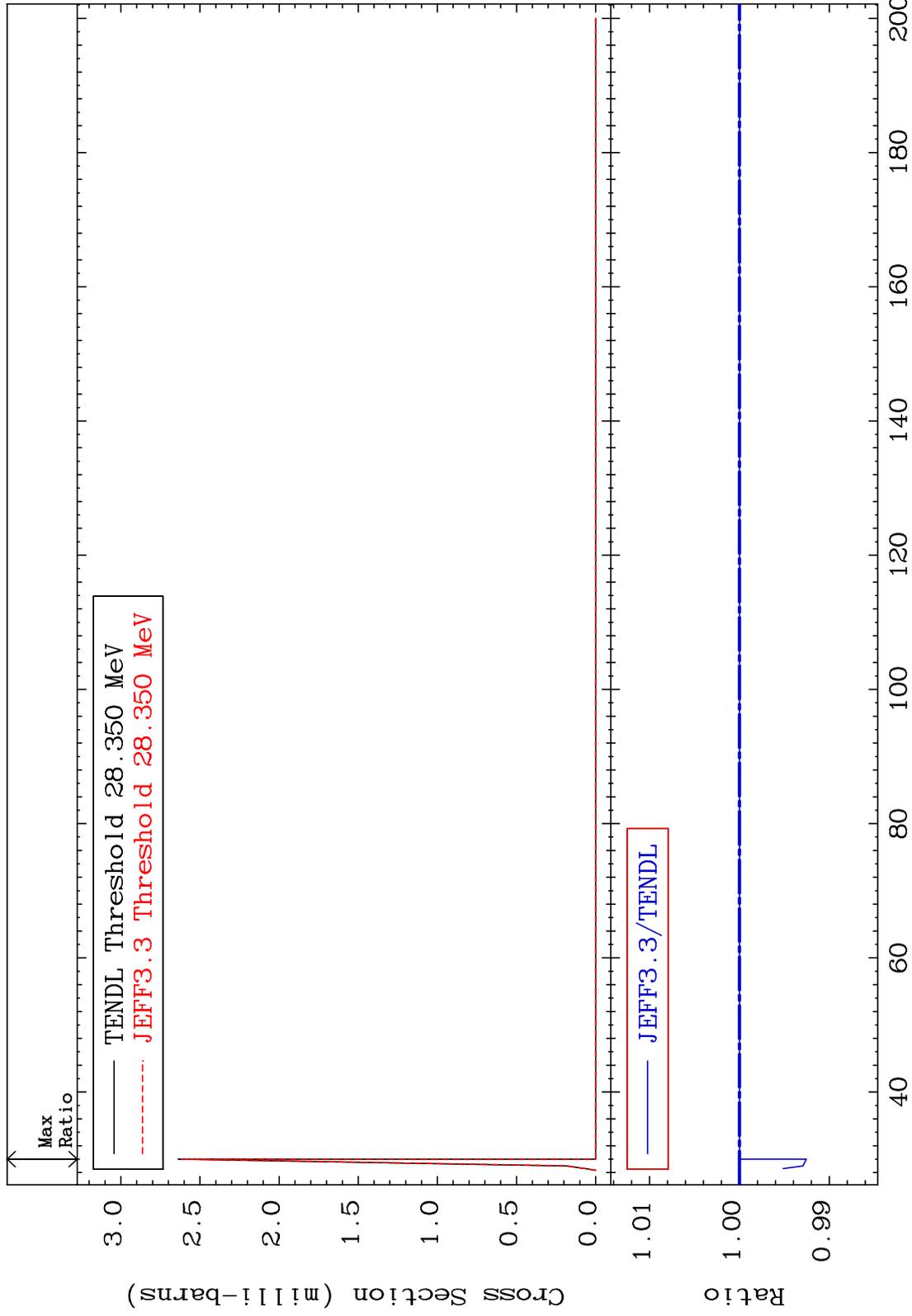


MAT 6025

(n,4n):60-Nd-139g

60-Nd-142

Radionuclide Production Cross Section -0.744 To 0.000 %

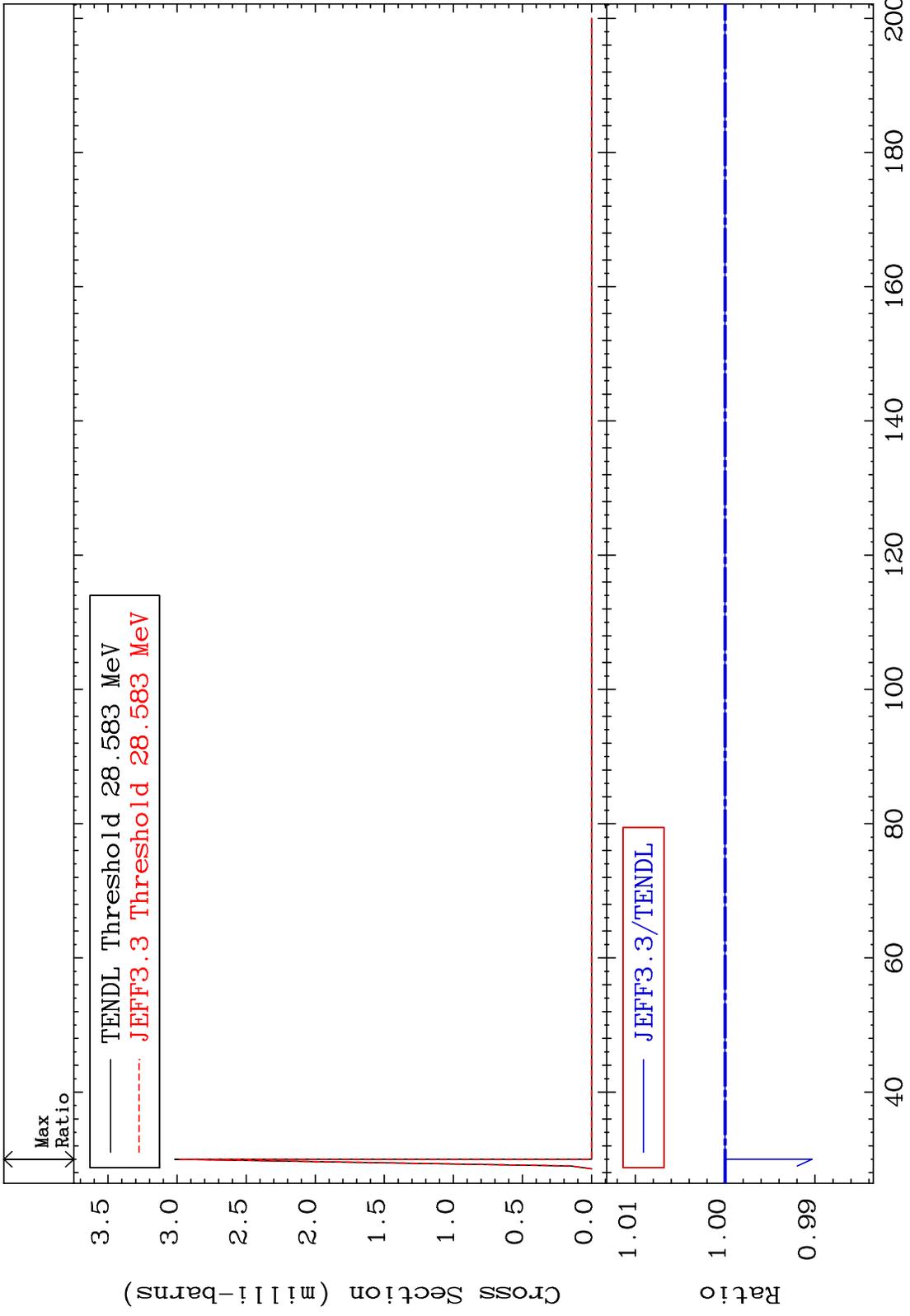


85

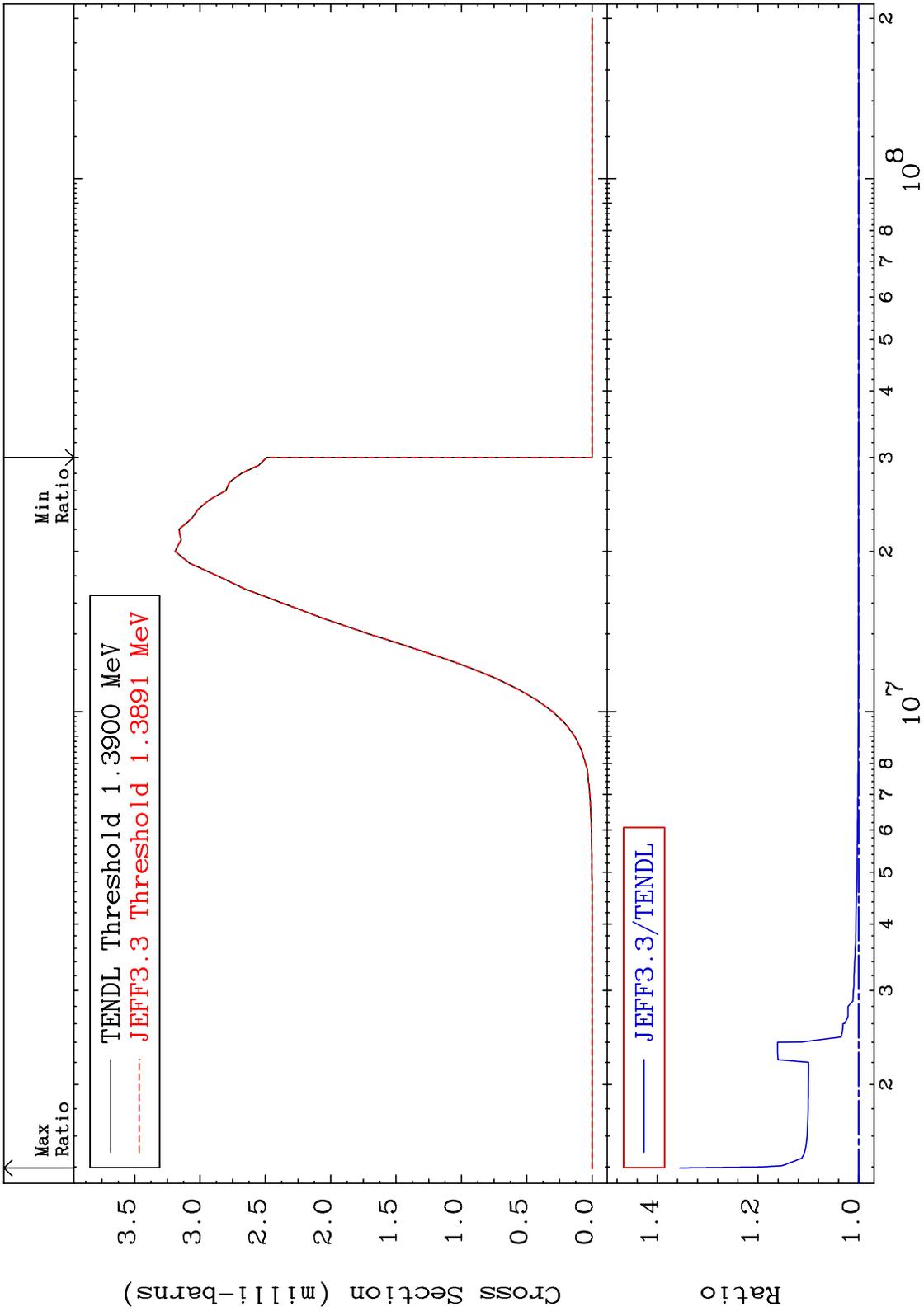
Incident Energy (MeV)

60-Nd-142

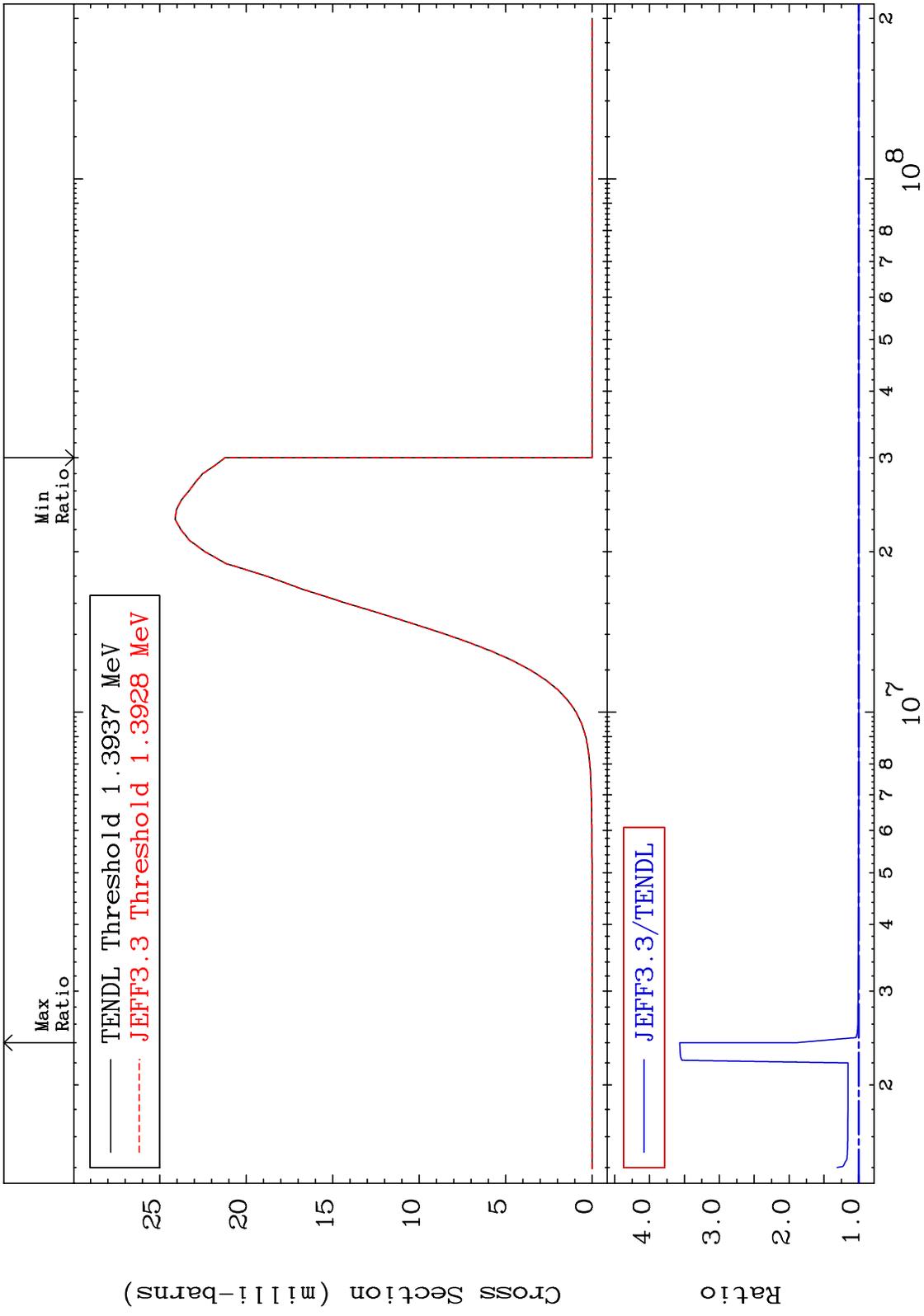
MAT 6025 (n,4n):60-Nd-139m2 60-Nd-142
 Radionuclide Production Cross Section -0.967 To 0.000 %



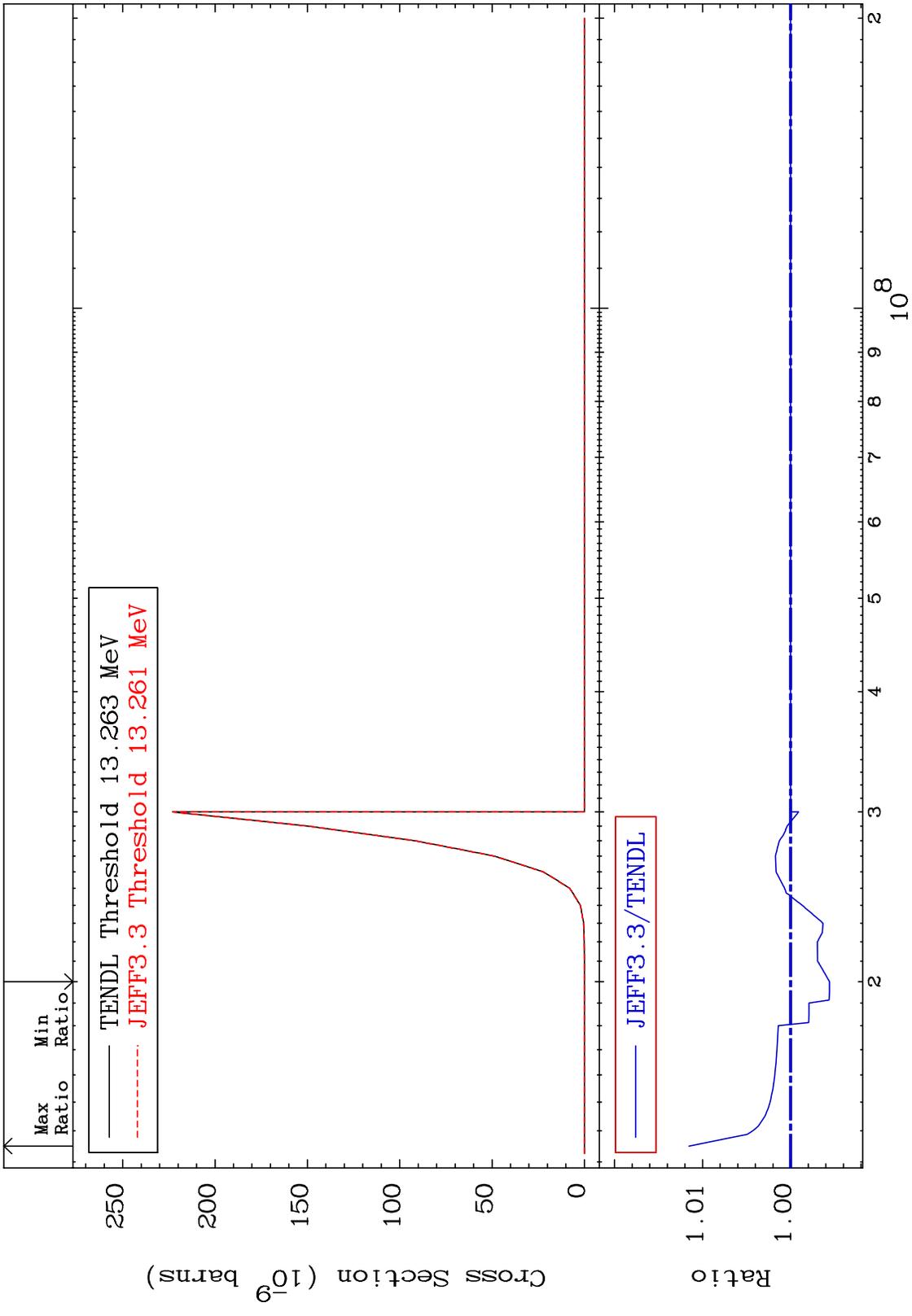
MAT 6025 (n,p):59-Pr-142g 60-Nd-142
 Radionuclide Production Cross Section 0.000 To 35.55 %



MAT 6025 (n, p):59-Pr-142m1 60-Nd-142
 Radionuclide Production Cross Section 0.000 To 256.7 %



MAT 6025 (n,p) t:58-Ce-139g 60-Nd-142
 Radionuclide Production Cross Section -0.442 To 1.153 %



MAT 6025 (n,p) t:58-Ce-139m2 60-Nd-142
 Radionuclide Production Cross Section -0.257 To 0.446 %

