

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

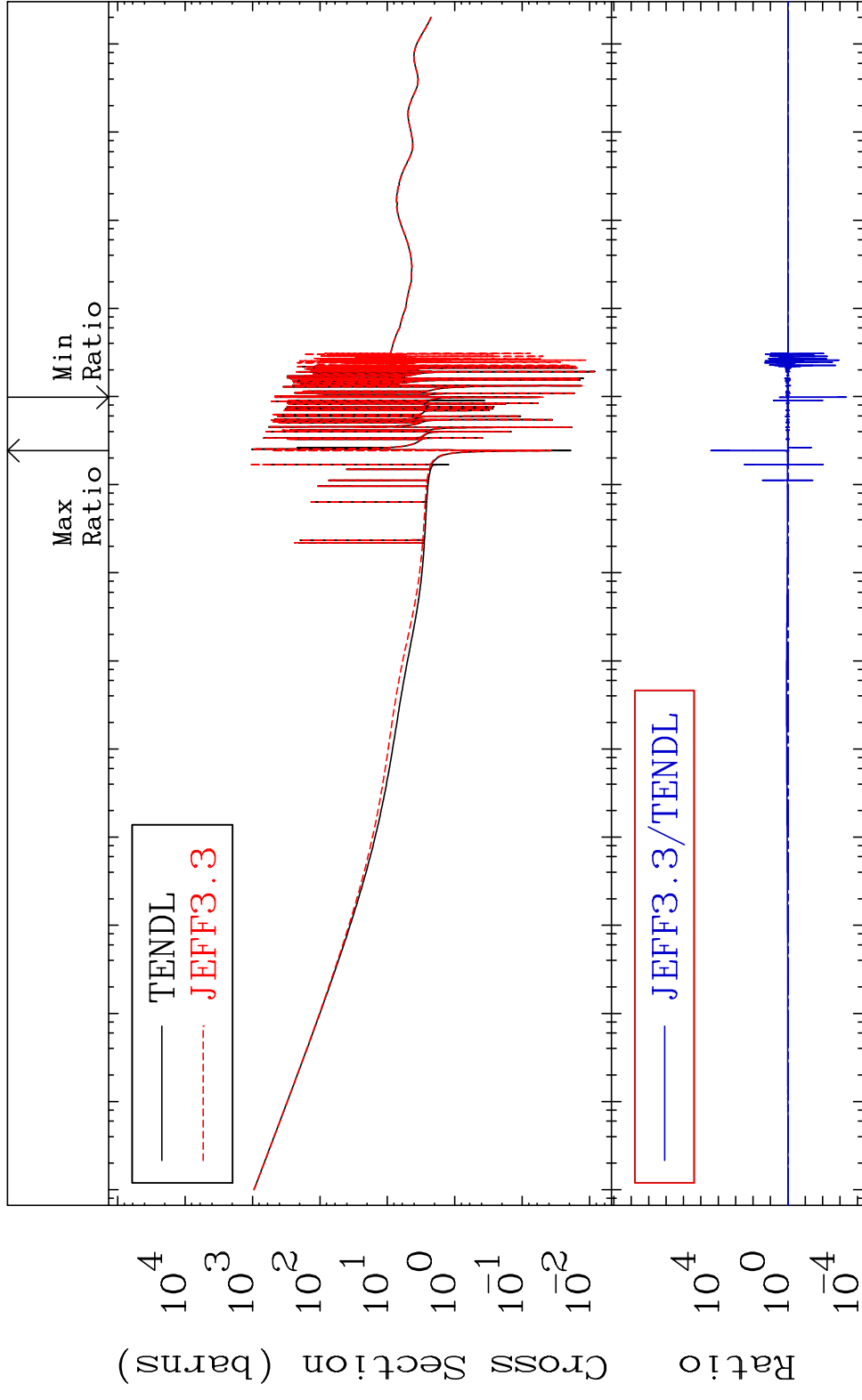
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6025

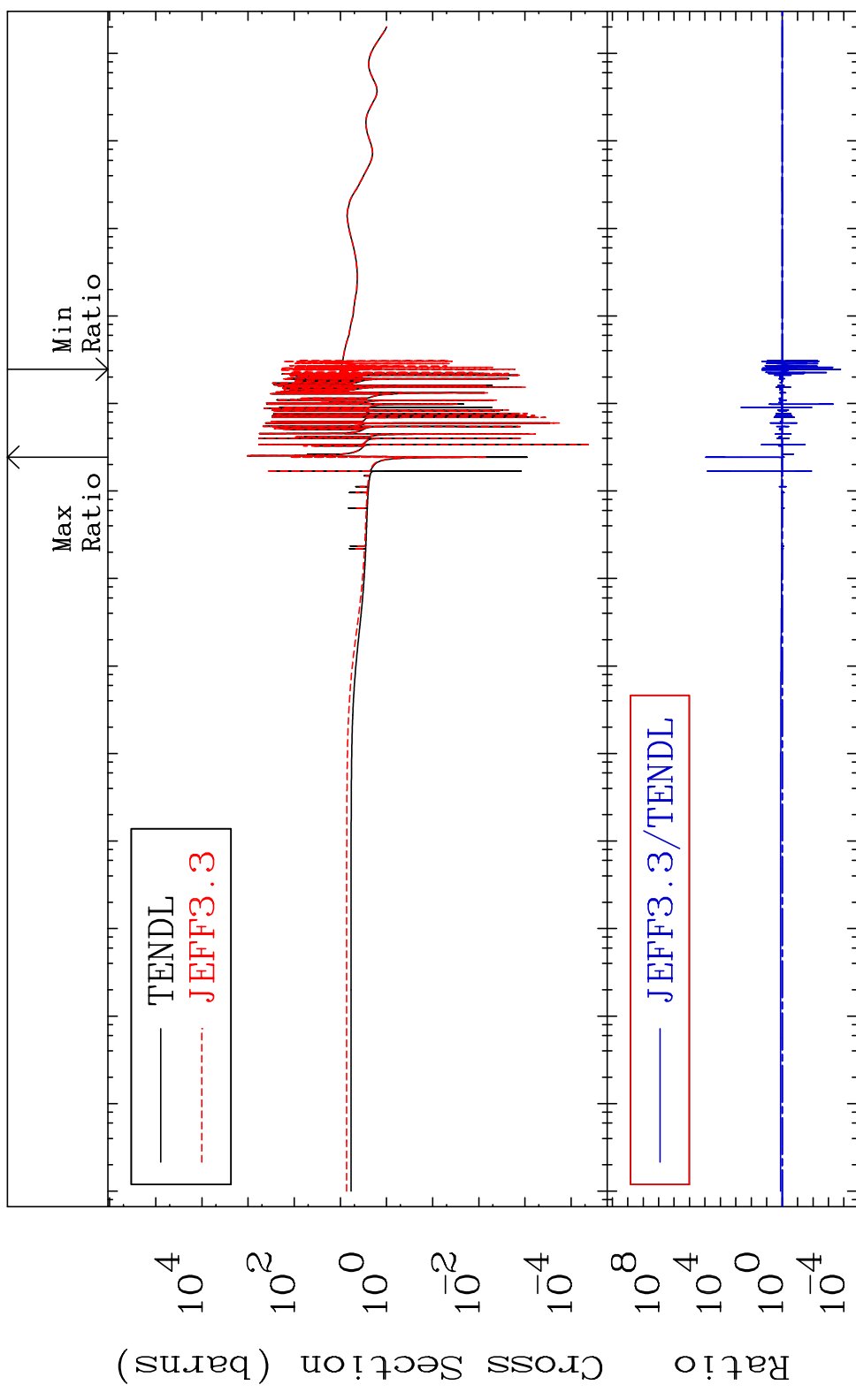
Total Cross Section
60-Nd-142
-99.96 To 9999. %



1 Incident Energy (eV) 60-Nd-142

MAT 6025

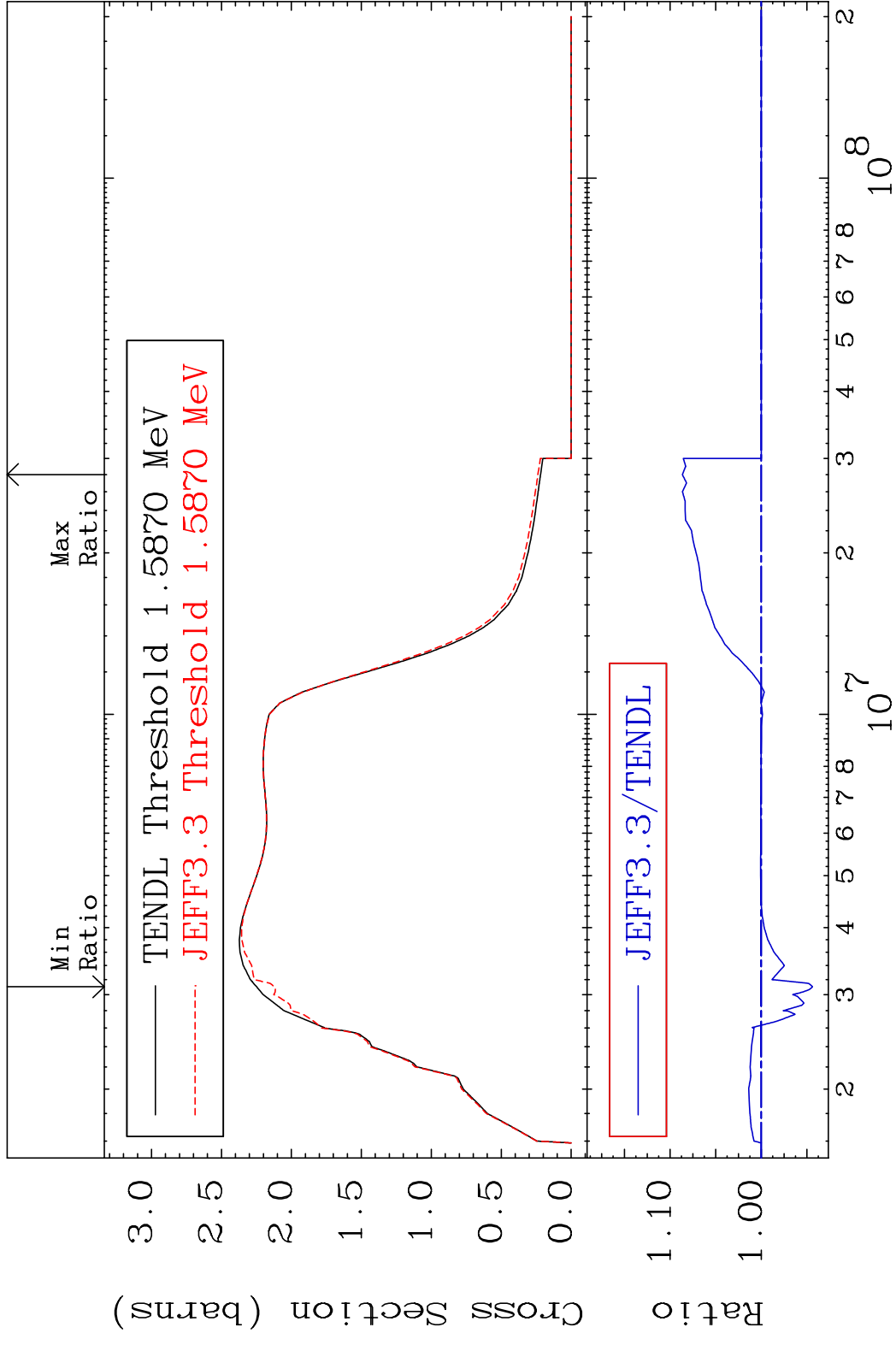
Elastic Cross Section
60-Nd-142
-99.98 To 9999. %



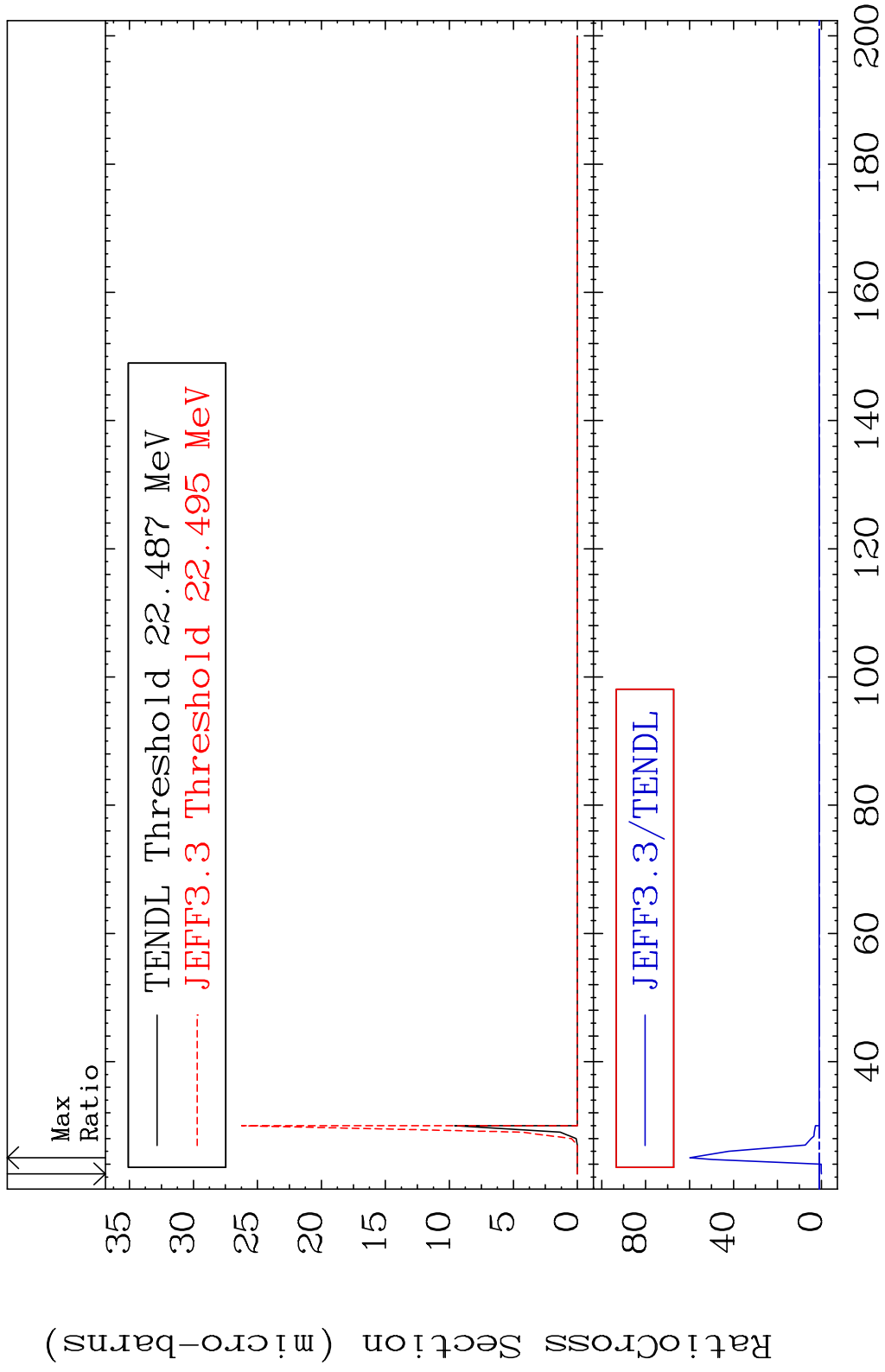
2

Incident Energy (eV) 60-Nd-142

MAT 6025 Inelastic 60-Nd-142
 Cross Section -5.630 To 8.644 %



MAT 6025 (n,2n) d 60-Nd-142
Cross Section -100.0 To 5892. %

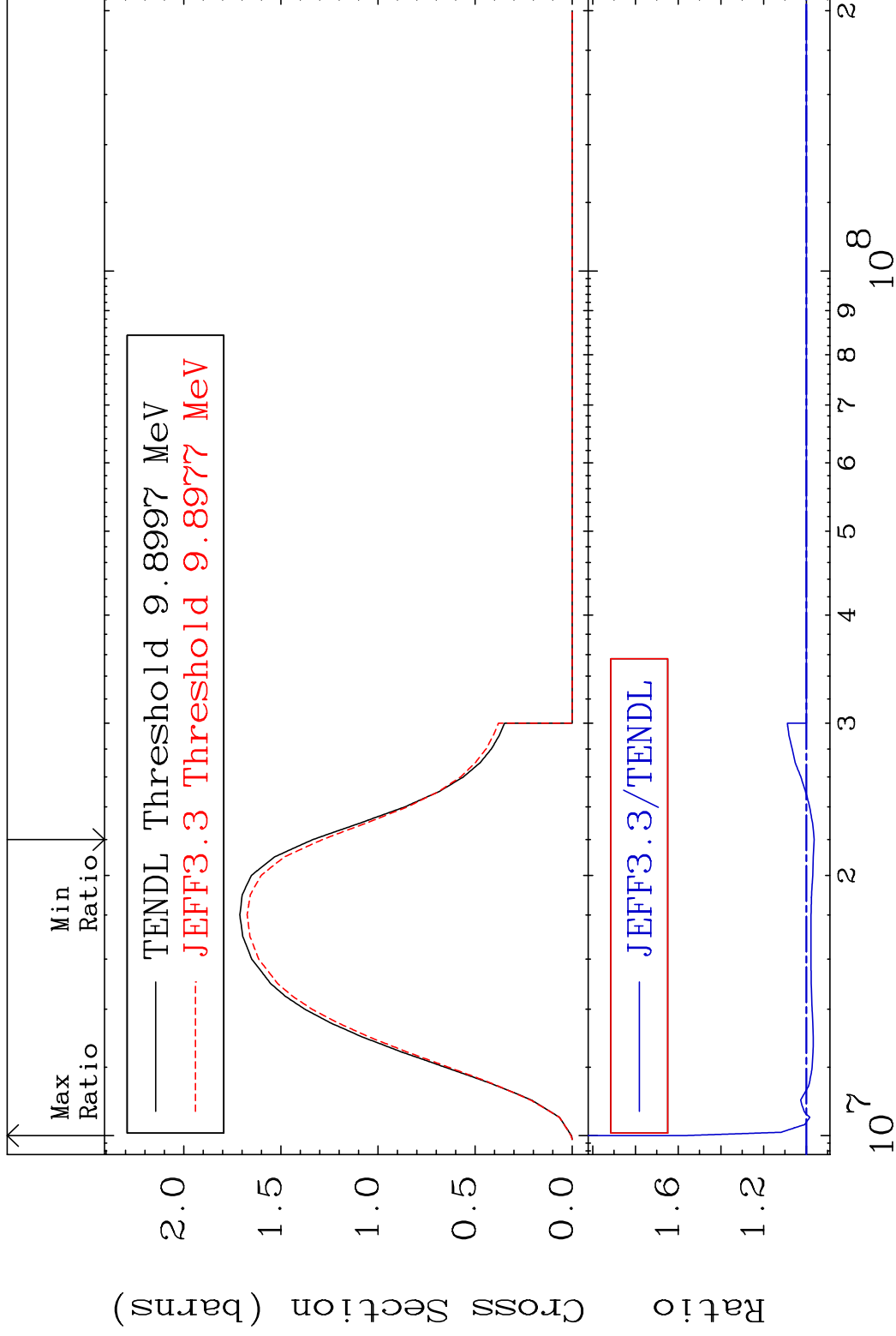


MAT 6025

(n,2n)

60-Nd-142

Cross Section -3.647 To 57.41 %



60-Nd-142

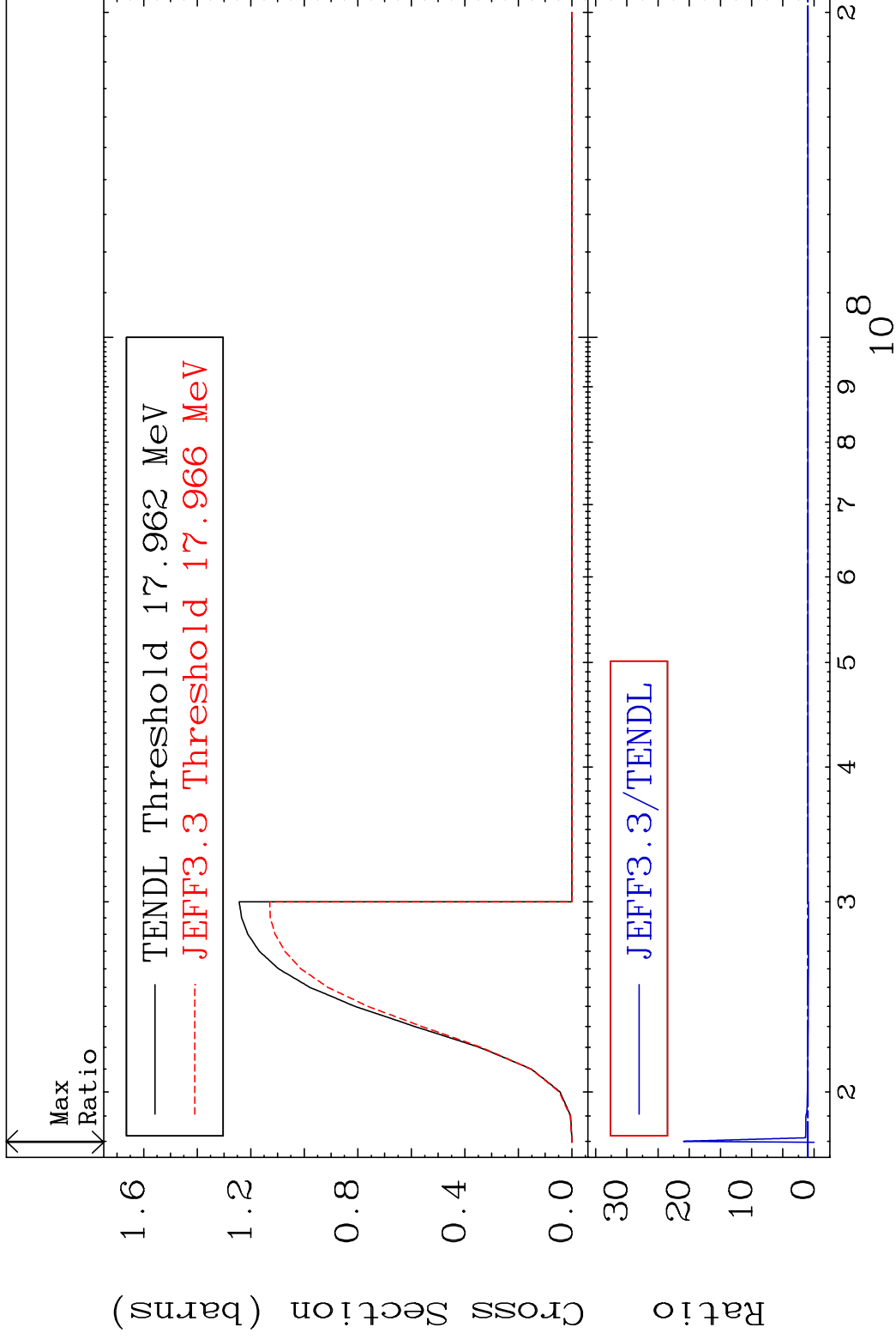
Incident Energy (eV)

MAT 6025

(n,3n)

60-Nd-142

Cross Section -100.0 To 1993. %



6

Incident Energy (eV)

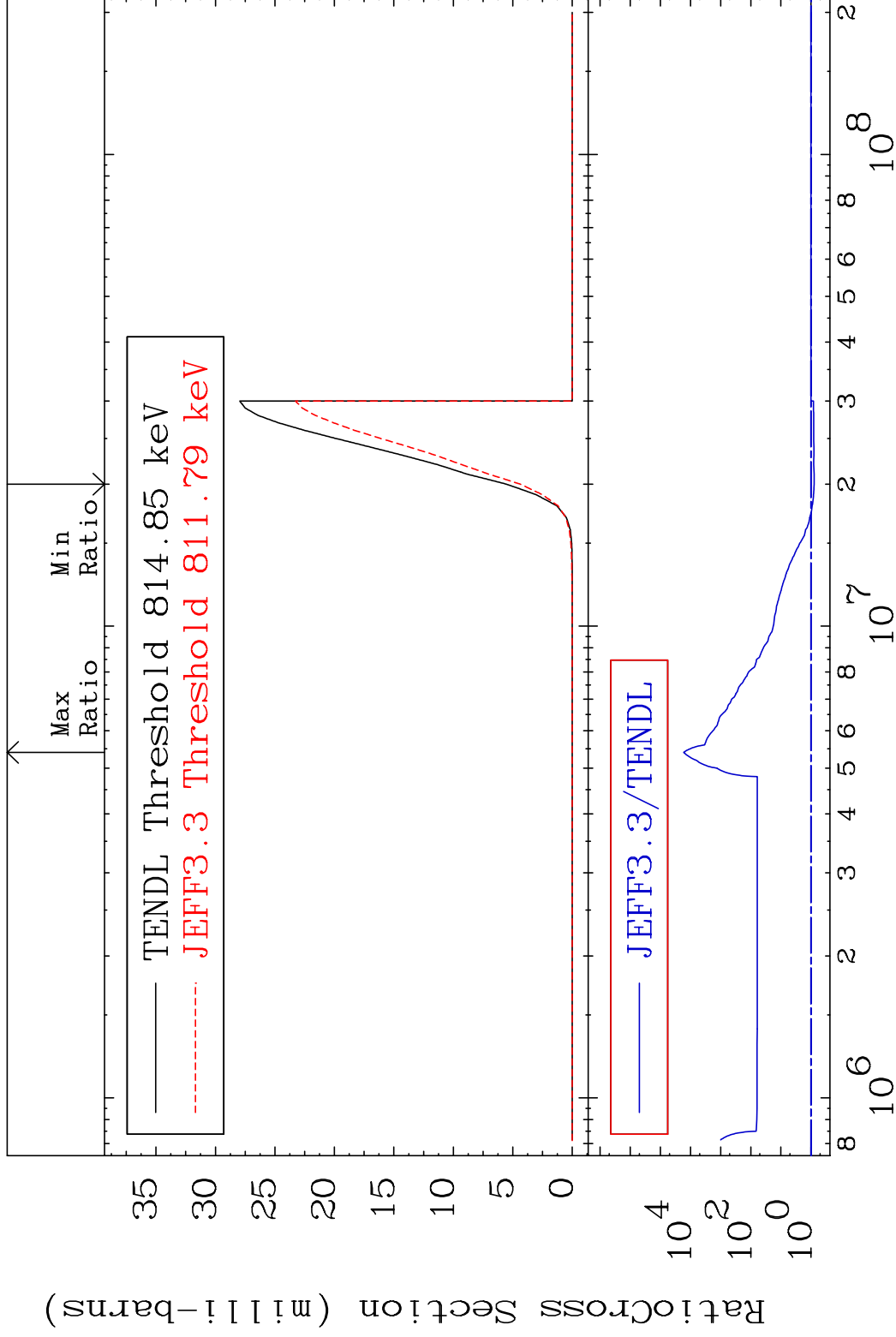
60-Nd-142

MAT 6025

(n, n') α

60-Nd-142

Cross Section -21.04 To 9999. %

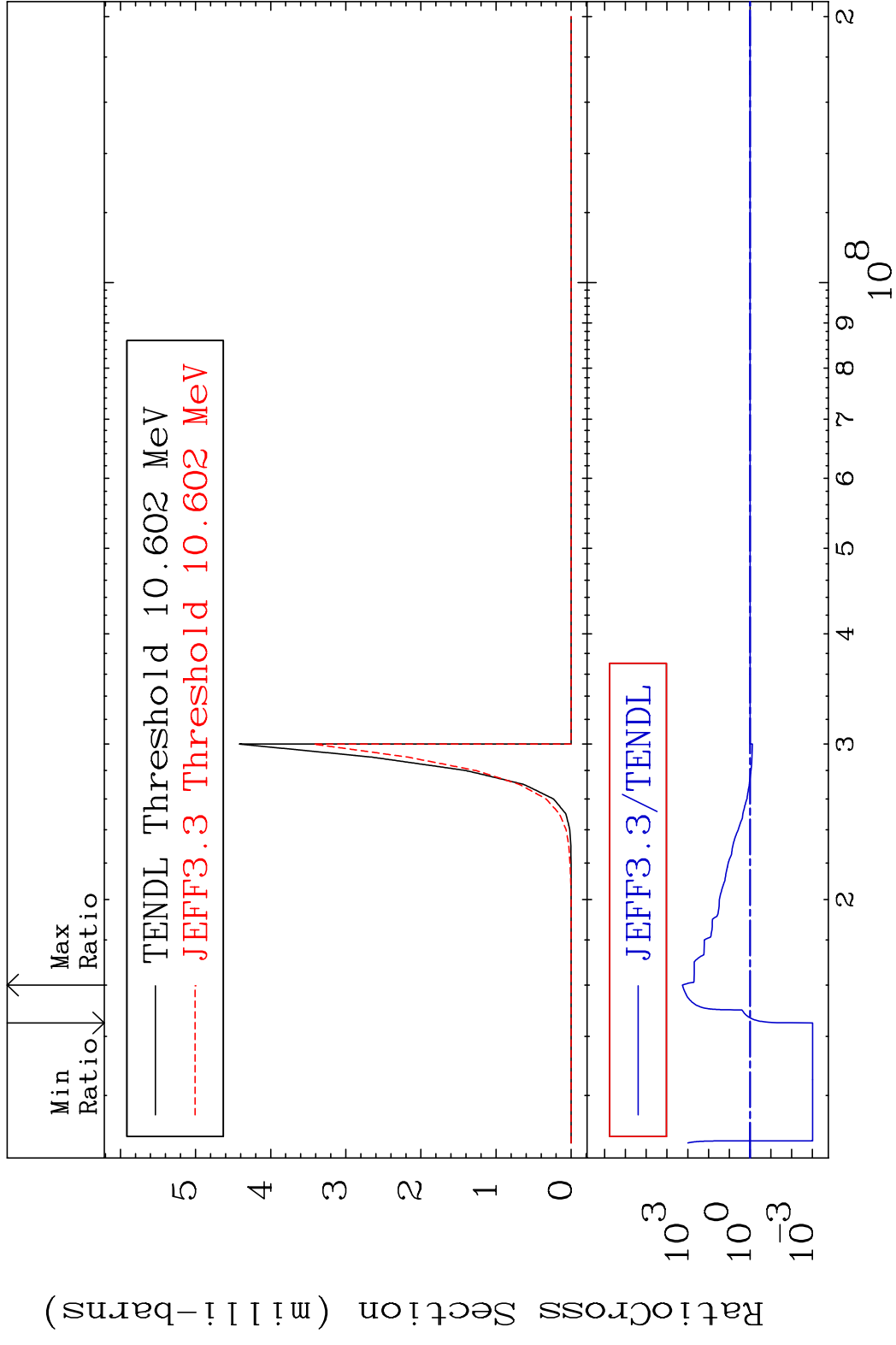


7

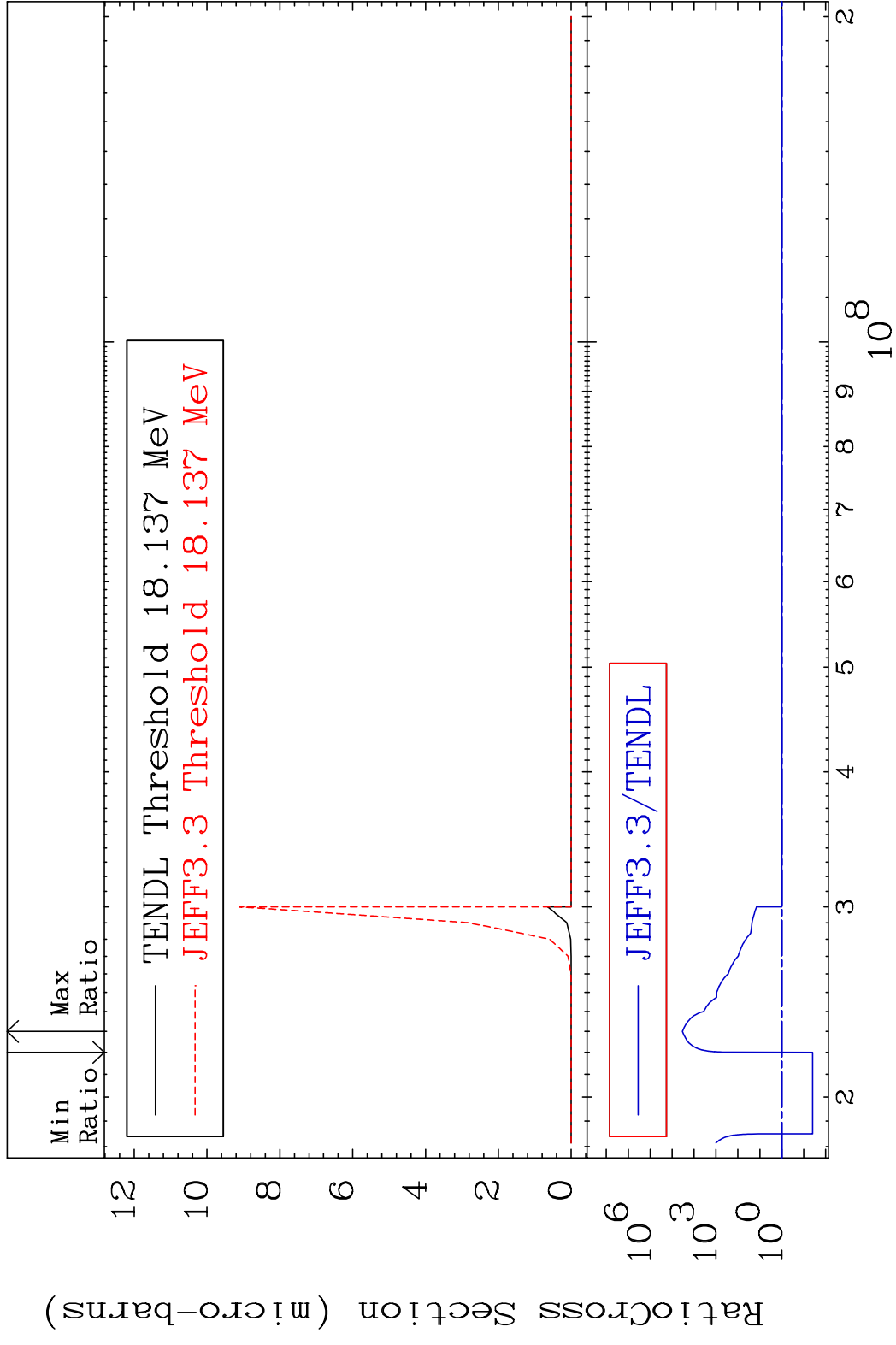
Incident Energy (eV)

60-Nd-142

MAT 6025 (n,2n) α 60-Nd-142
 Cross Section -99.90 To 9999. %



MAT 6025 (n,3n) α 60-Nd-142
 Cross Section -96.07 To 9999. %

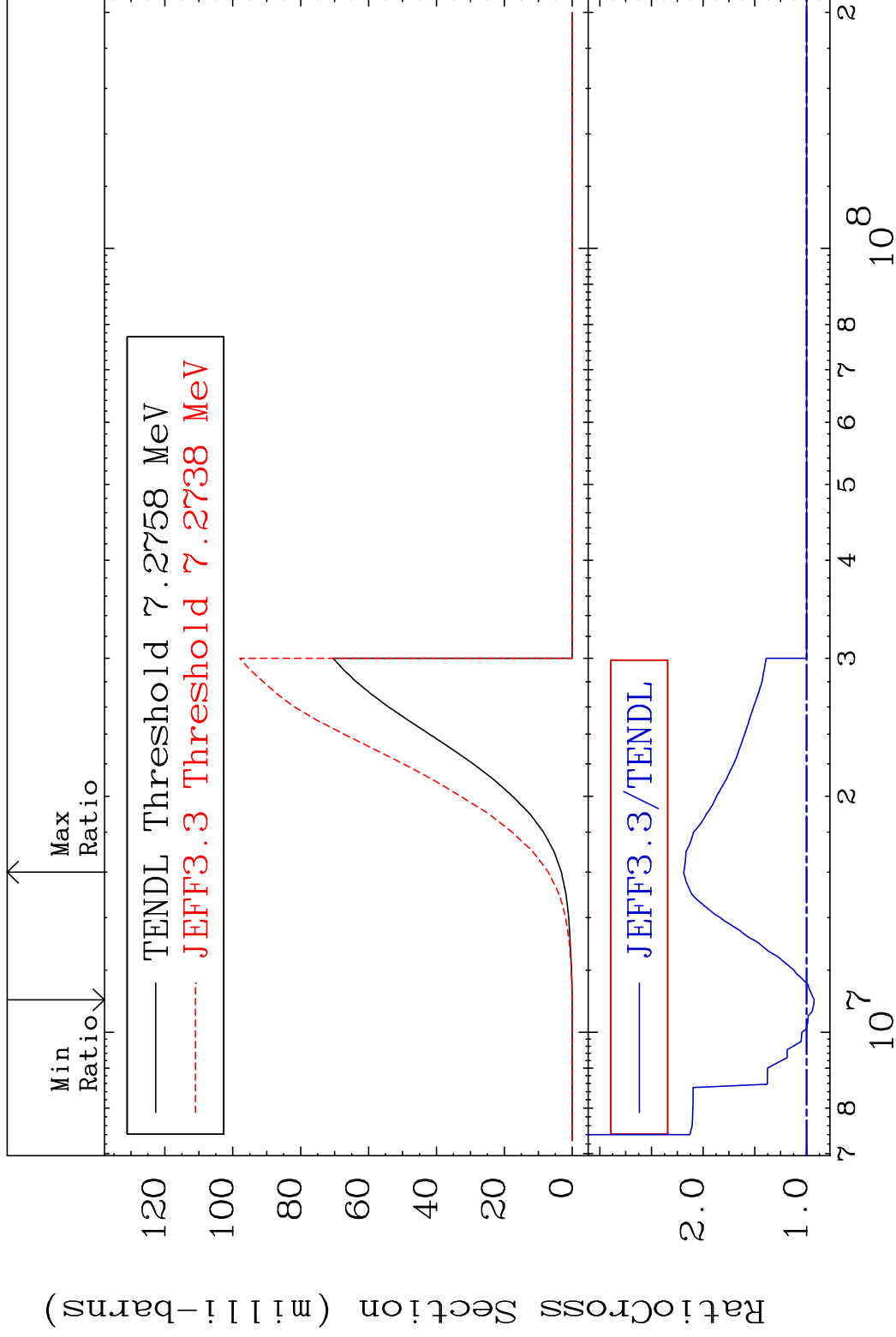


MAT 6025

(n, n') p

60-Nd-142

Cross Section -7.356 To 118.9 %



10

Incident Energy (eV)

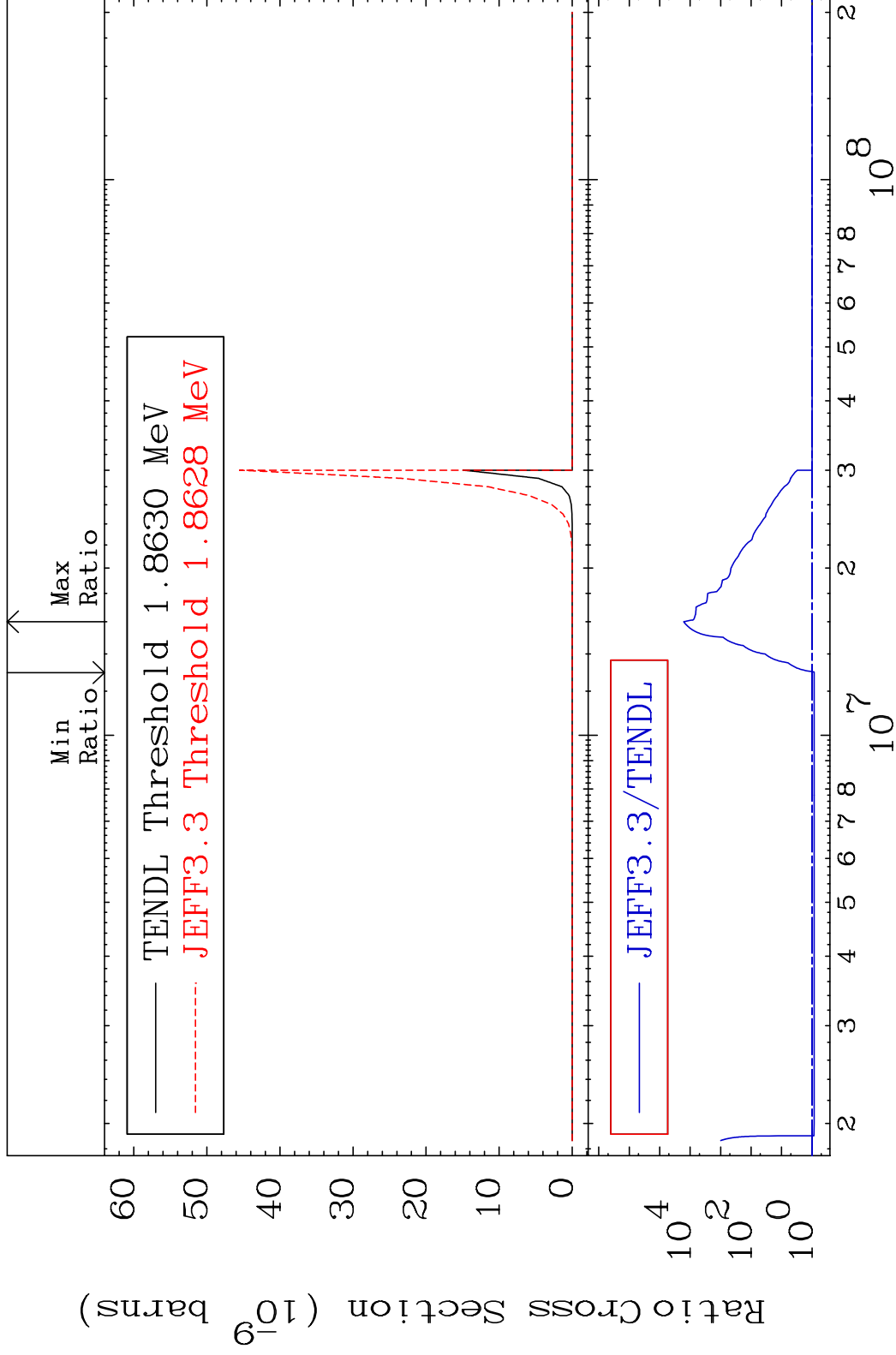
60-Nd-142

MAT 6025

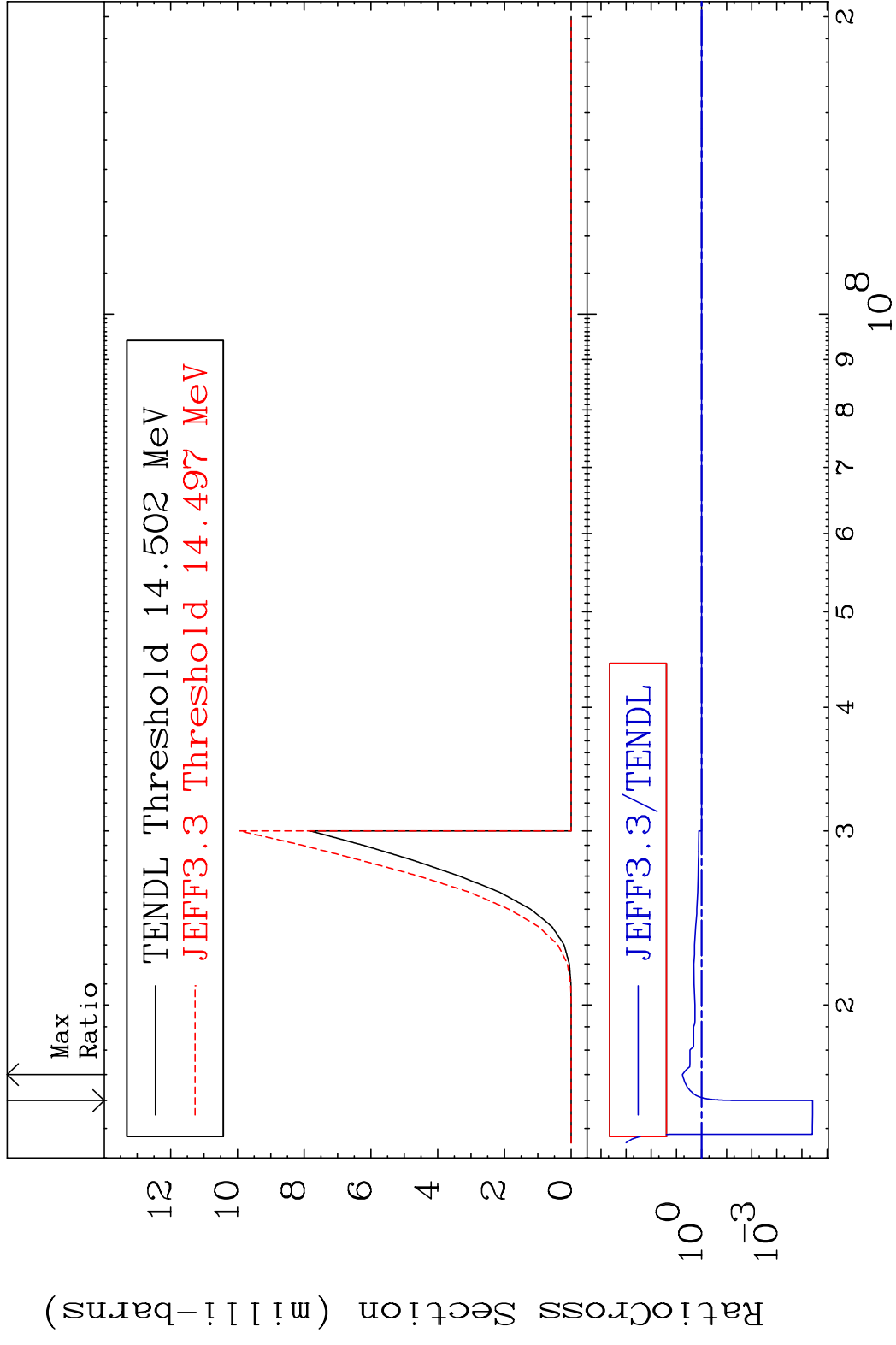
(n, n') 2α

60-Nd-142

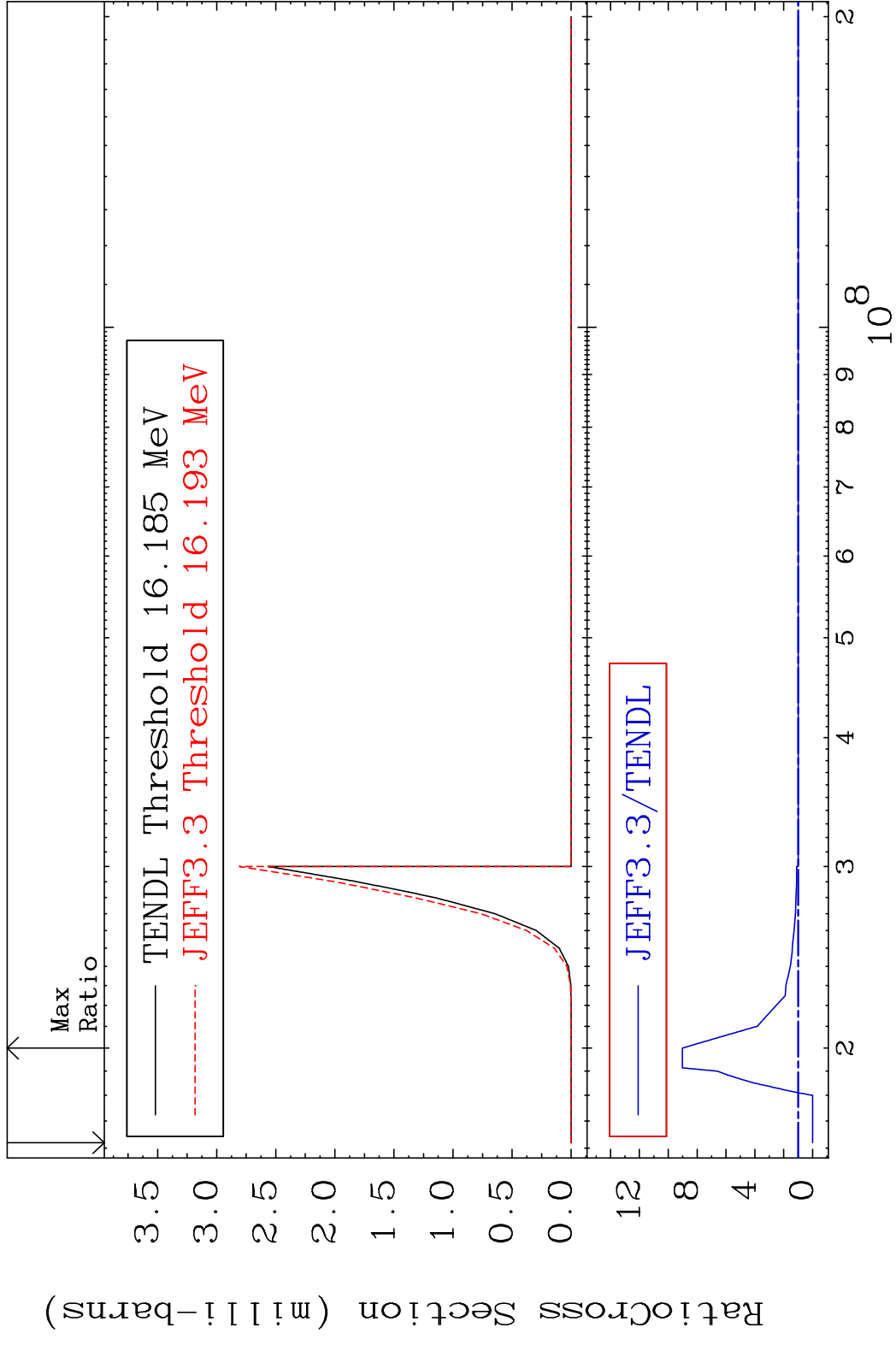
Cross Section -14.33 To 9999. %



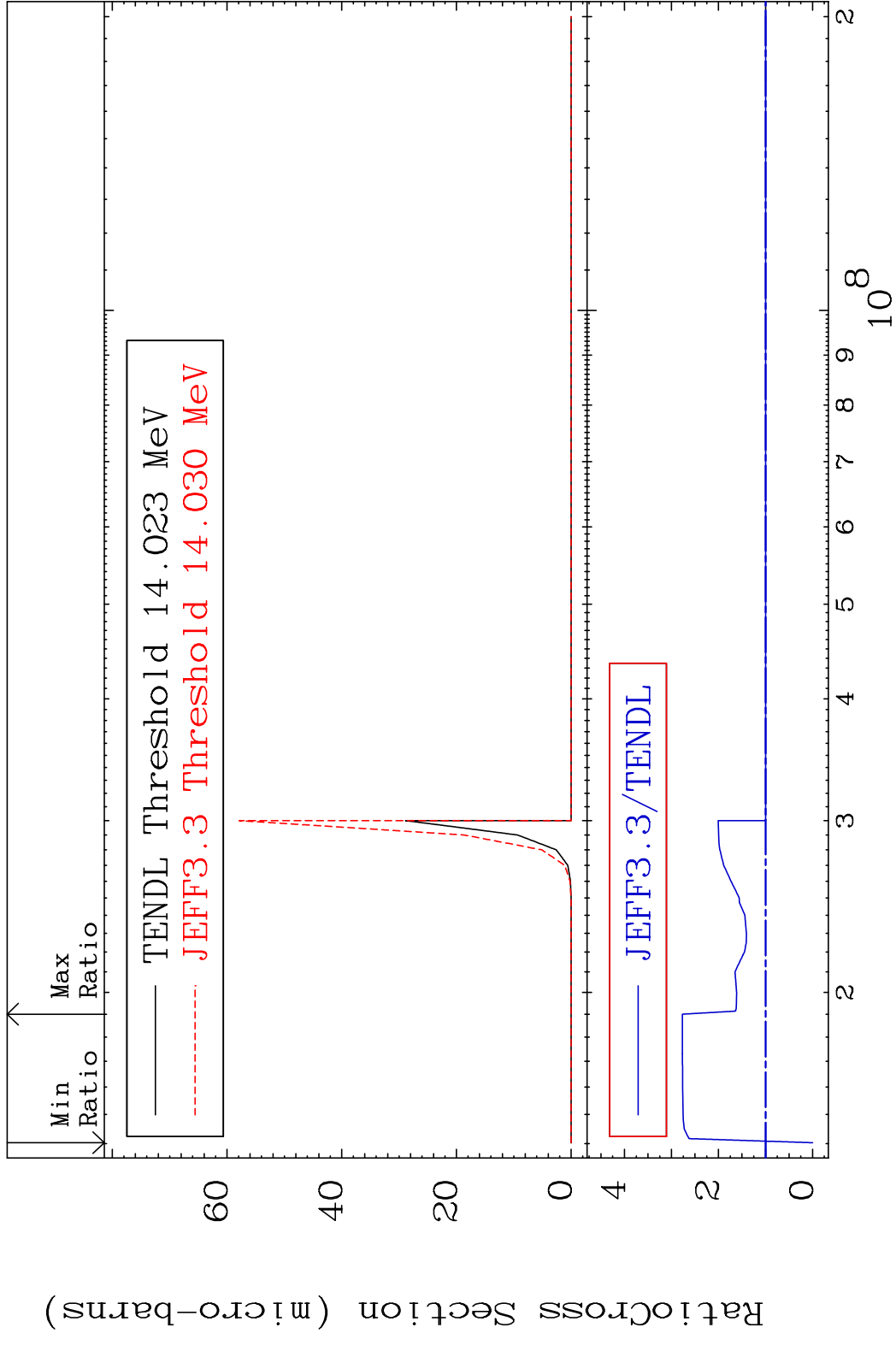
MAT 6025 (n, n') d 60-Nd-142
 Cross Section -100.0 To 477.3 %



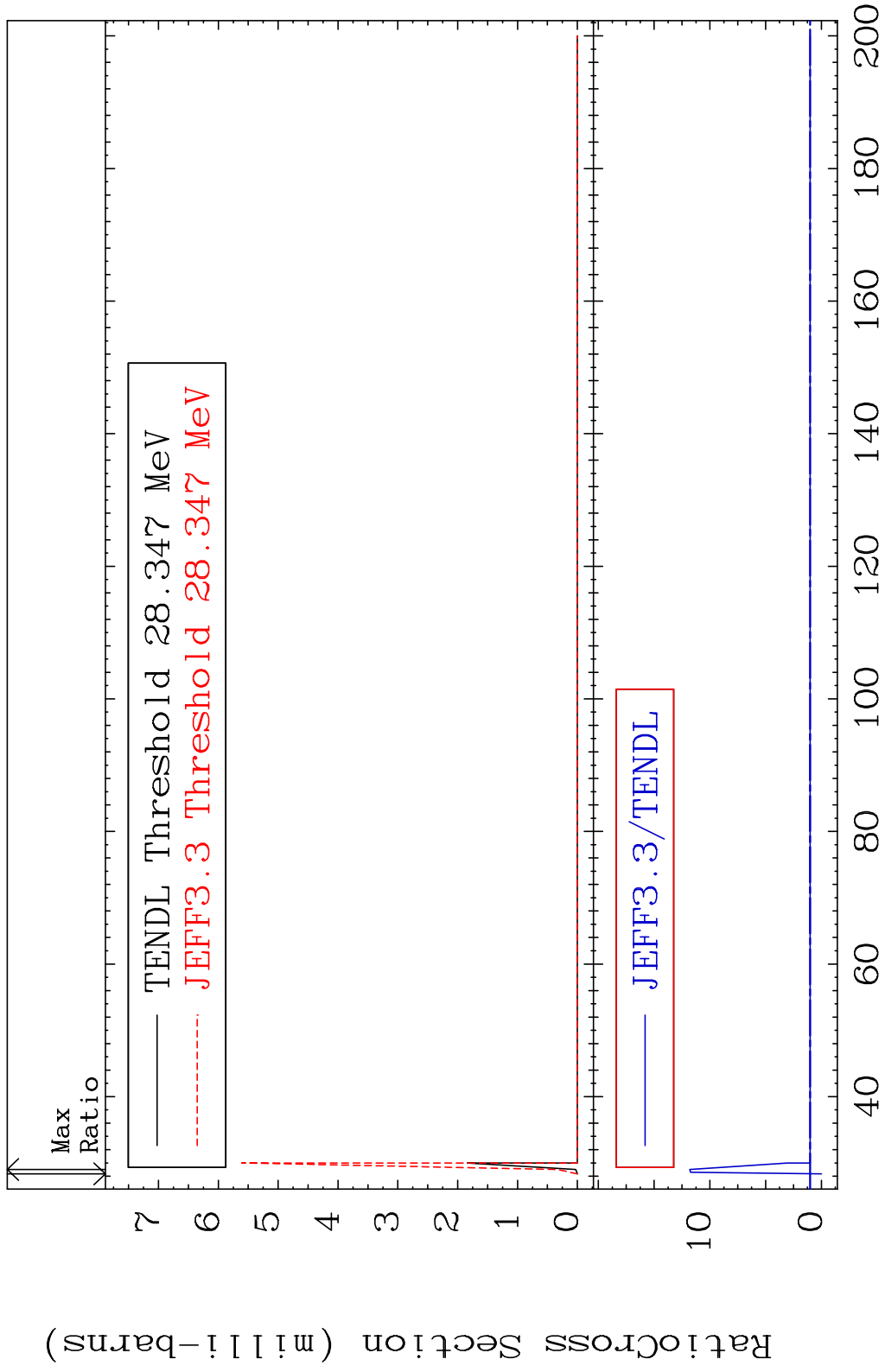
MAT 6025 (n, n') t 60-Nd-142
 Cross Section -100.0 To 802.2 %



MAT 6025 (n,n') He-3 60-Nd-142
 Cross Section -100.0 To 176.9 %

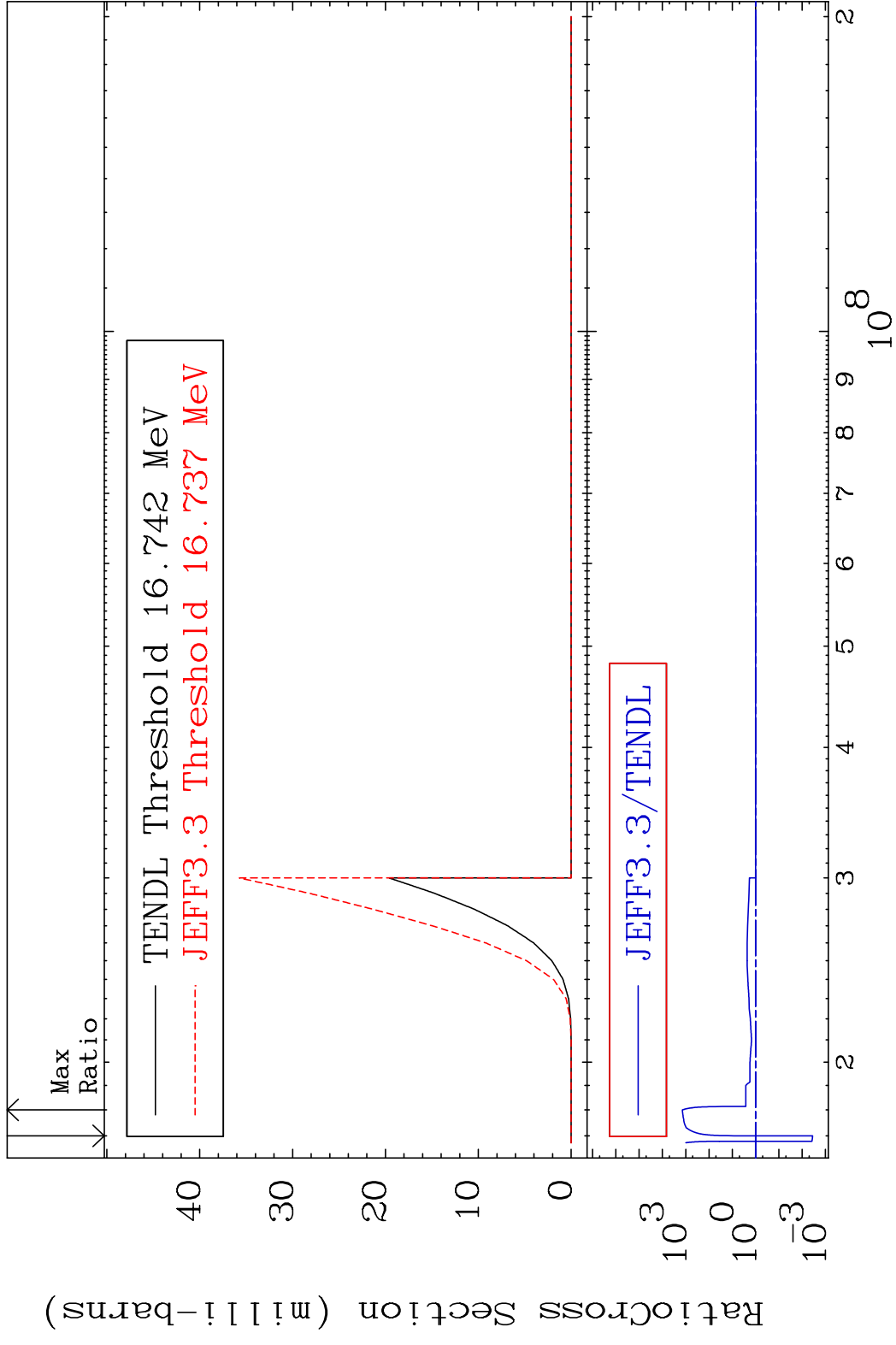


MAT 6025 (n,4n) 60-Nd-142
 Cross Section -100.0 To 1080. %

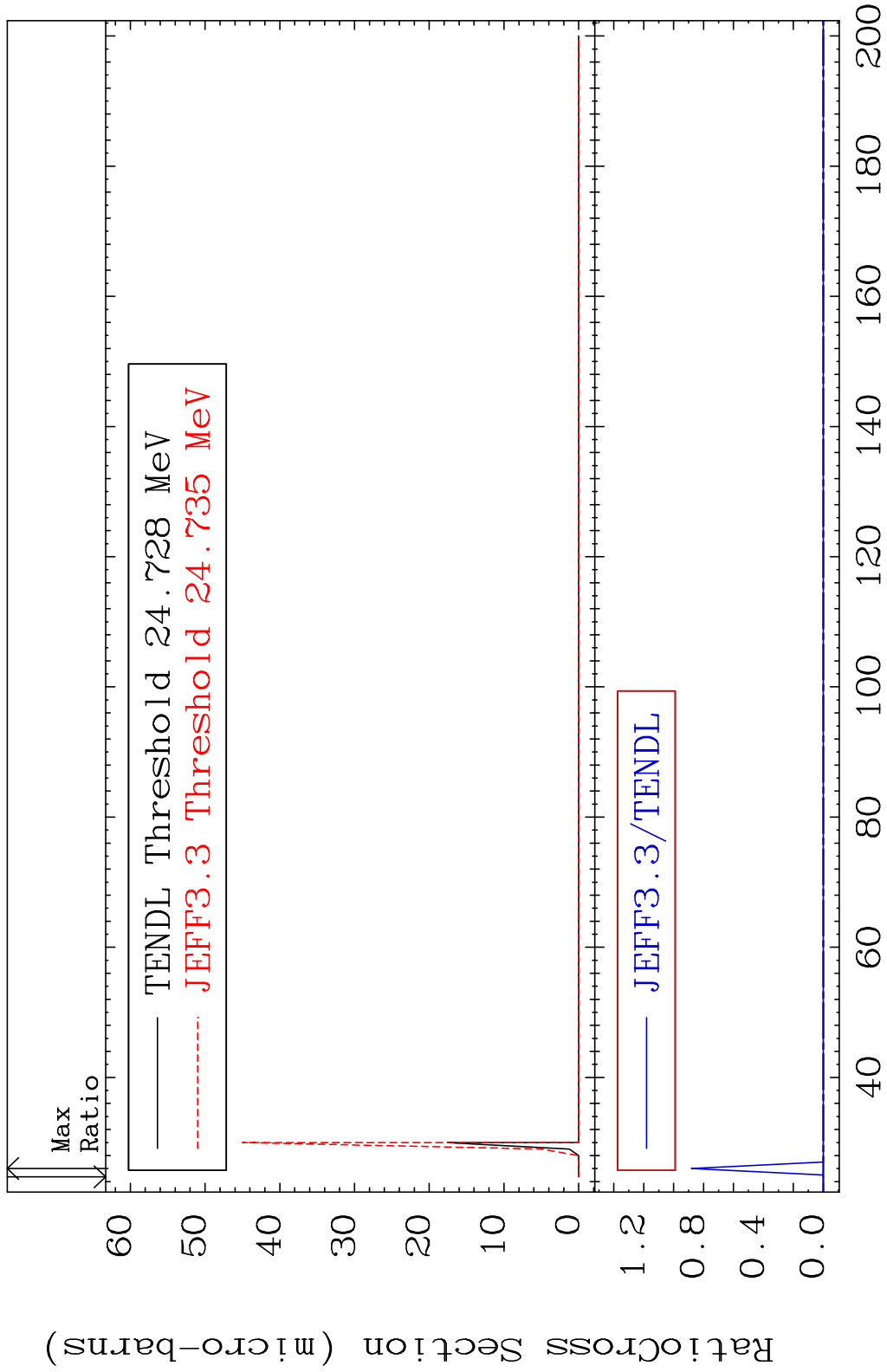


15 Incident Energy (MeV) 60-Nd-142

MAT 6025 (n,2n) p 60-Nd-142
 Cross Section -99.64 To 9999. %



MAT 6025 (n,3n) p 60-Nd-142
 Cross Section -100.0 To 9999. %

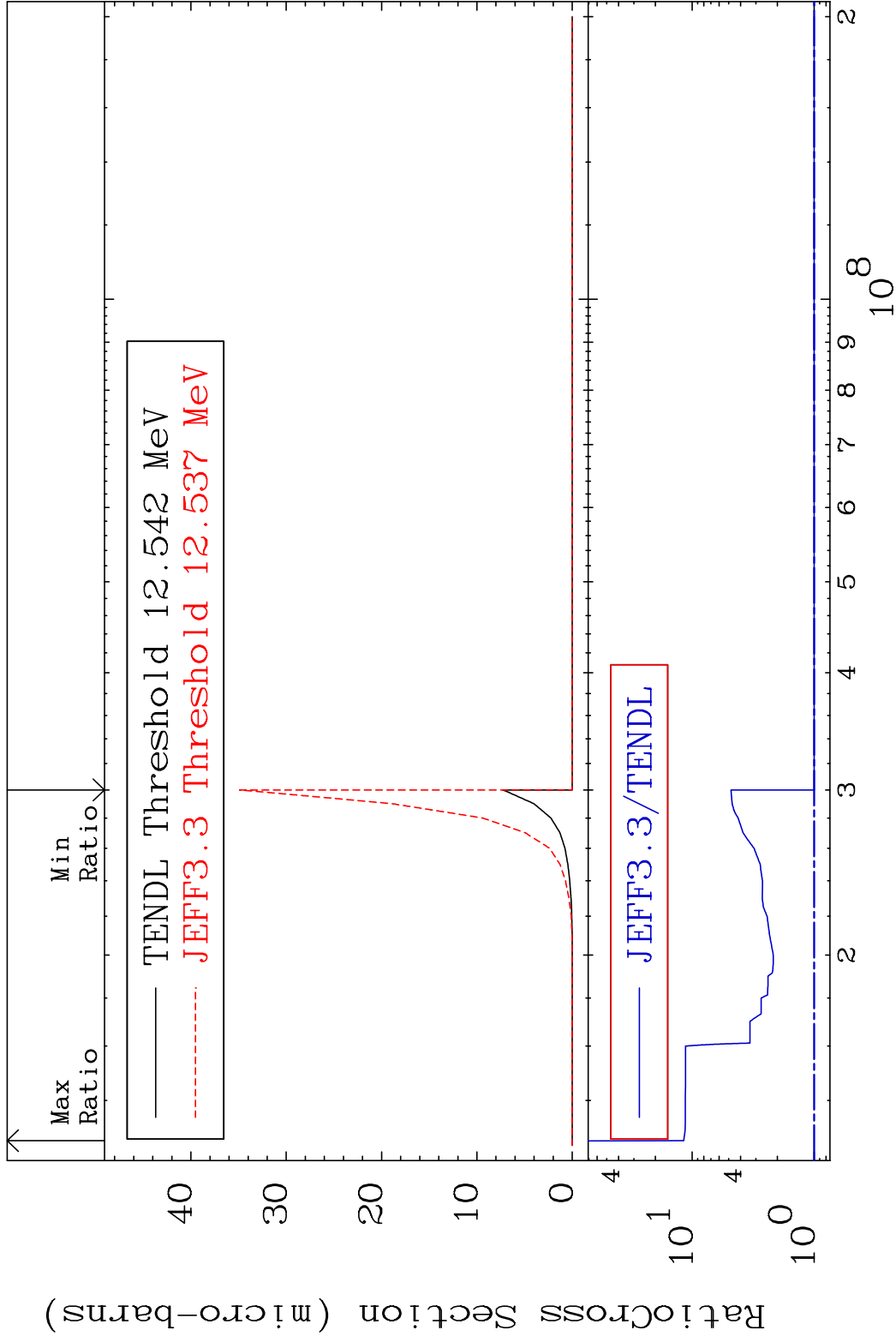


MAT 6025

(n,2n) p

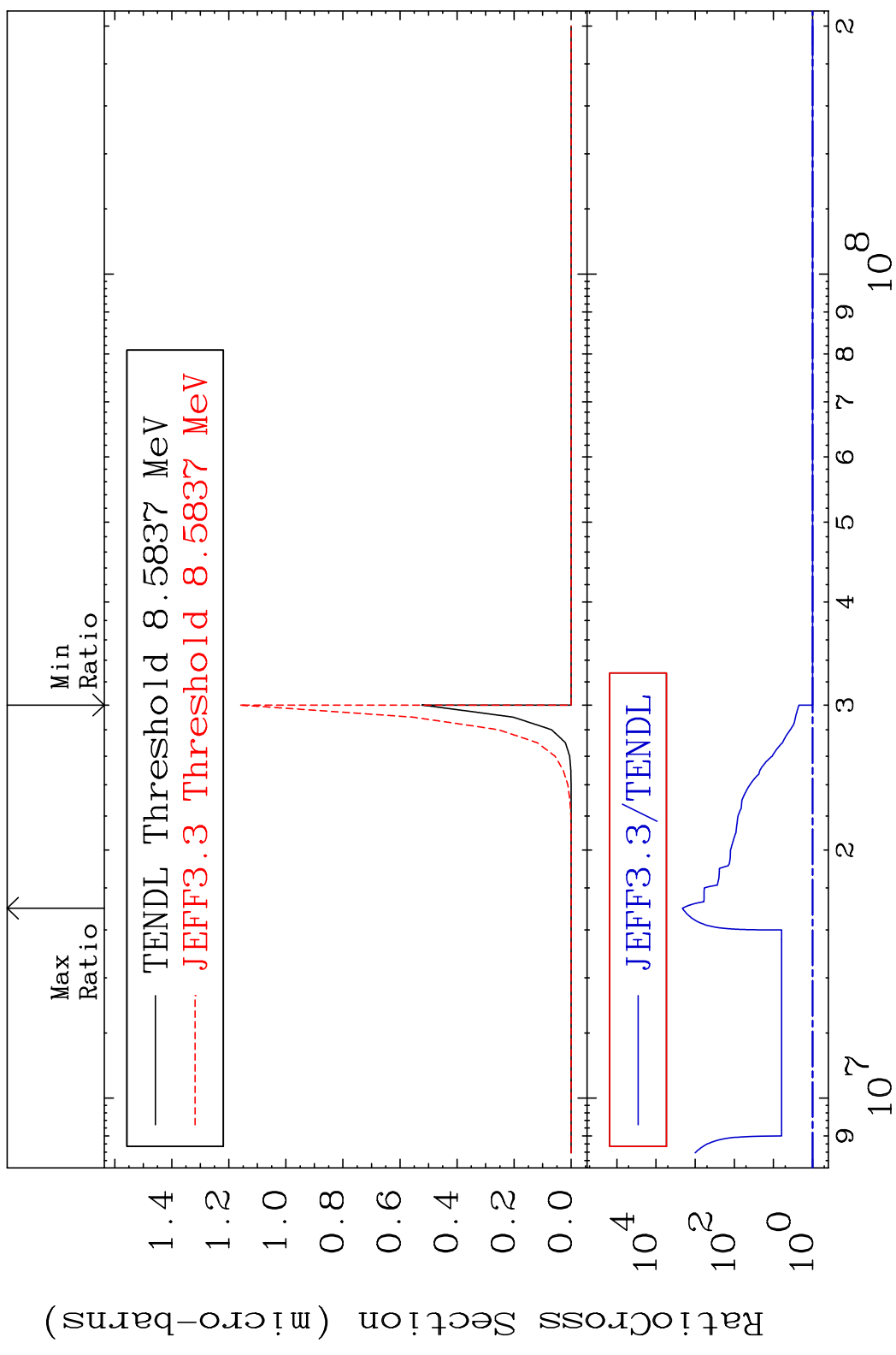
60-Nd-142

Cross Section 0.000 To 1072. %

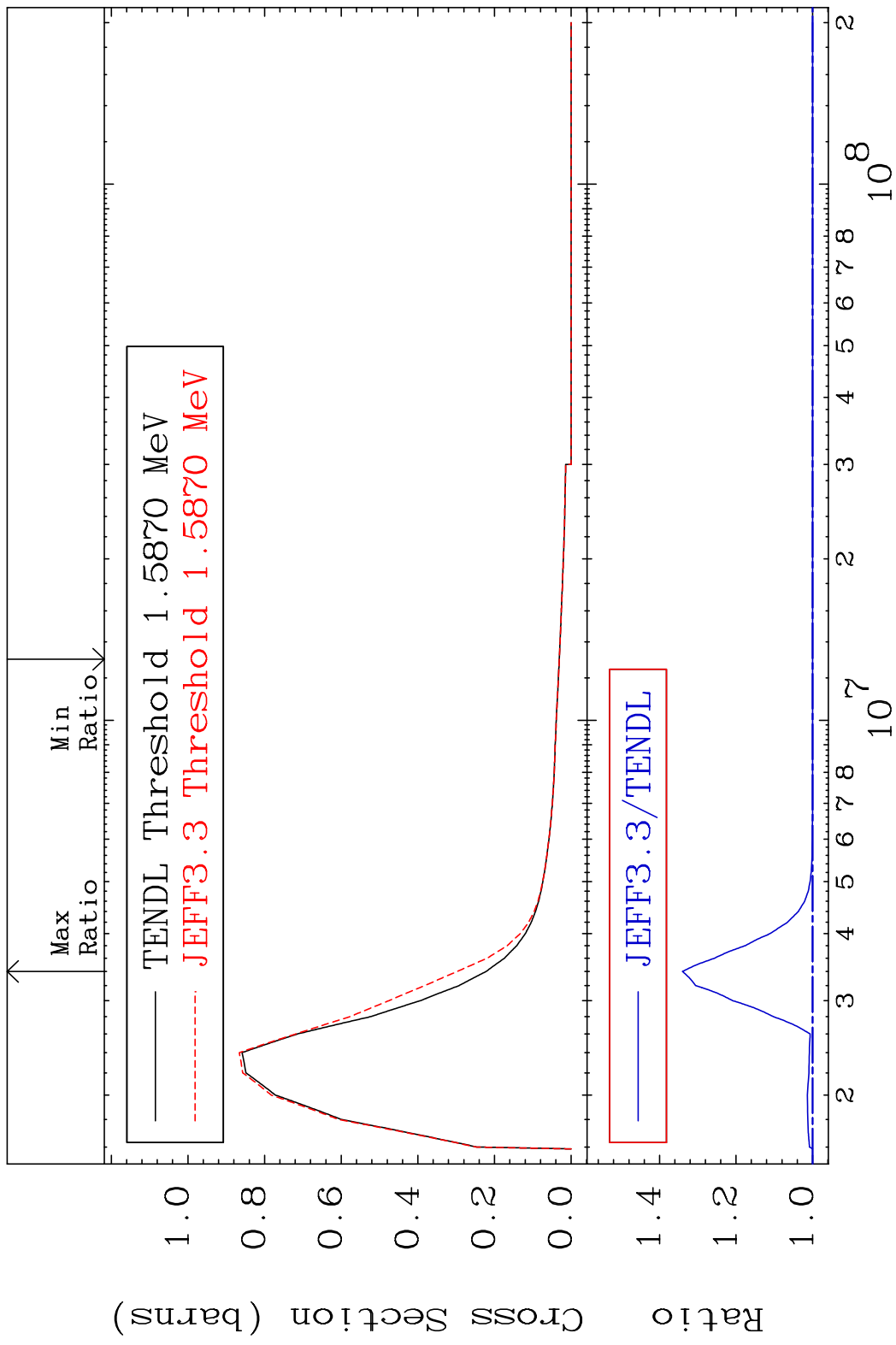


MAT 6025

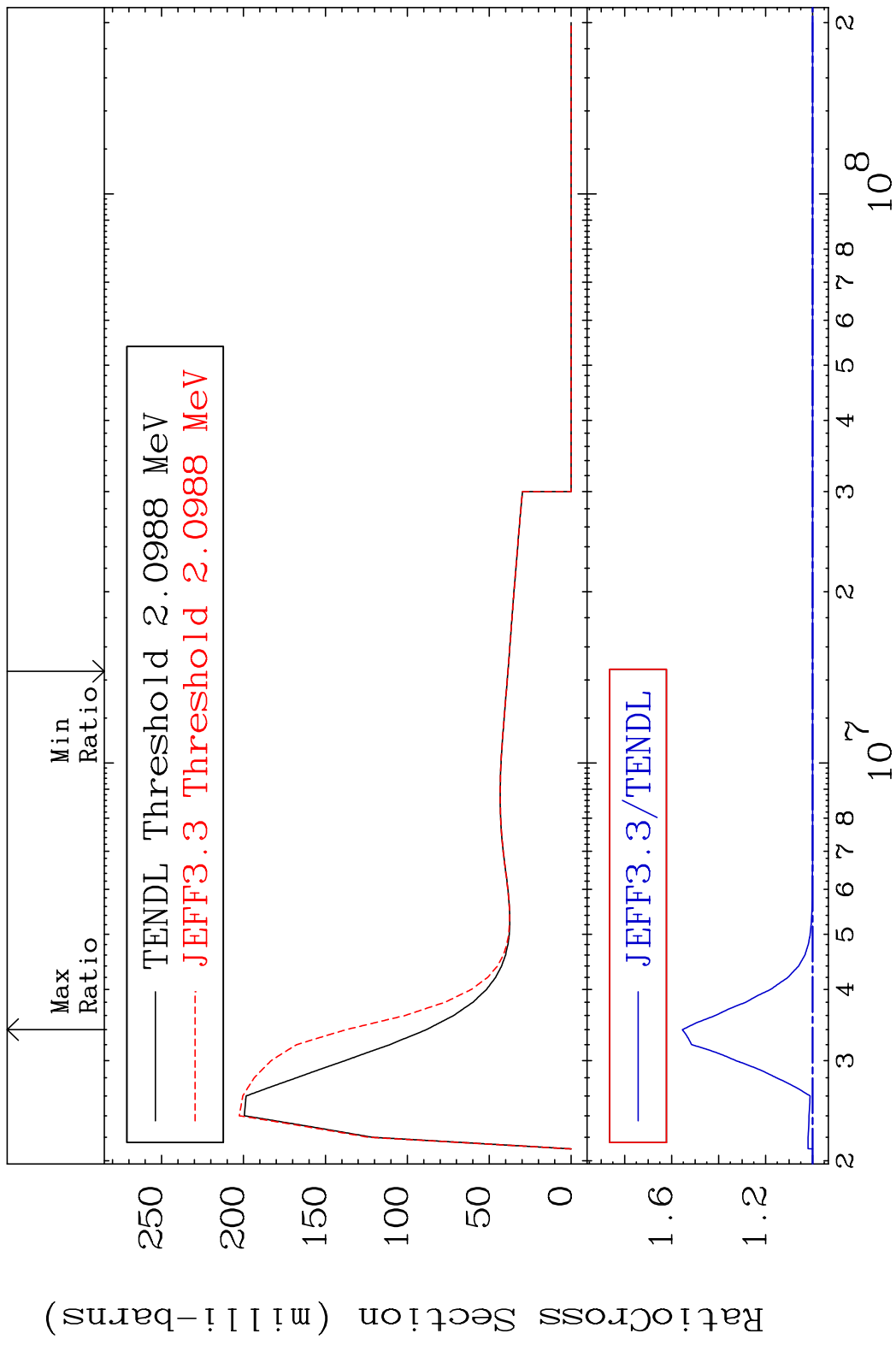
(n, n') p α
Cross Section 0.000 To 9999. %



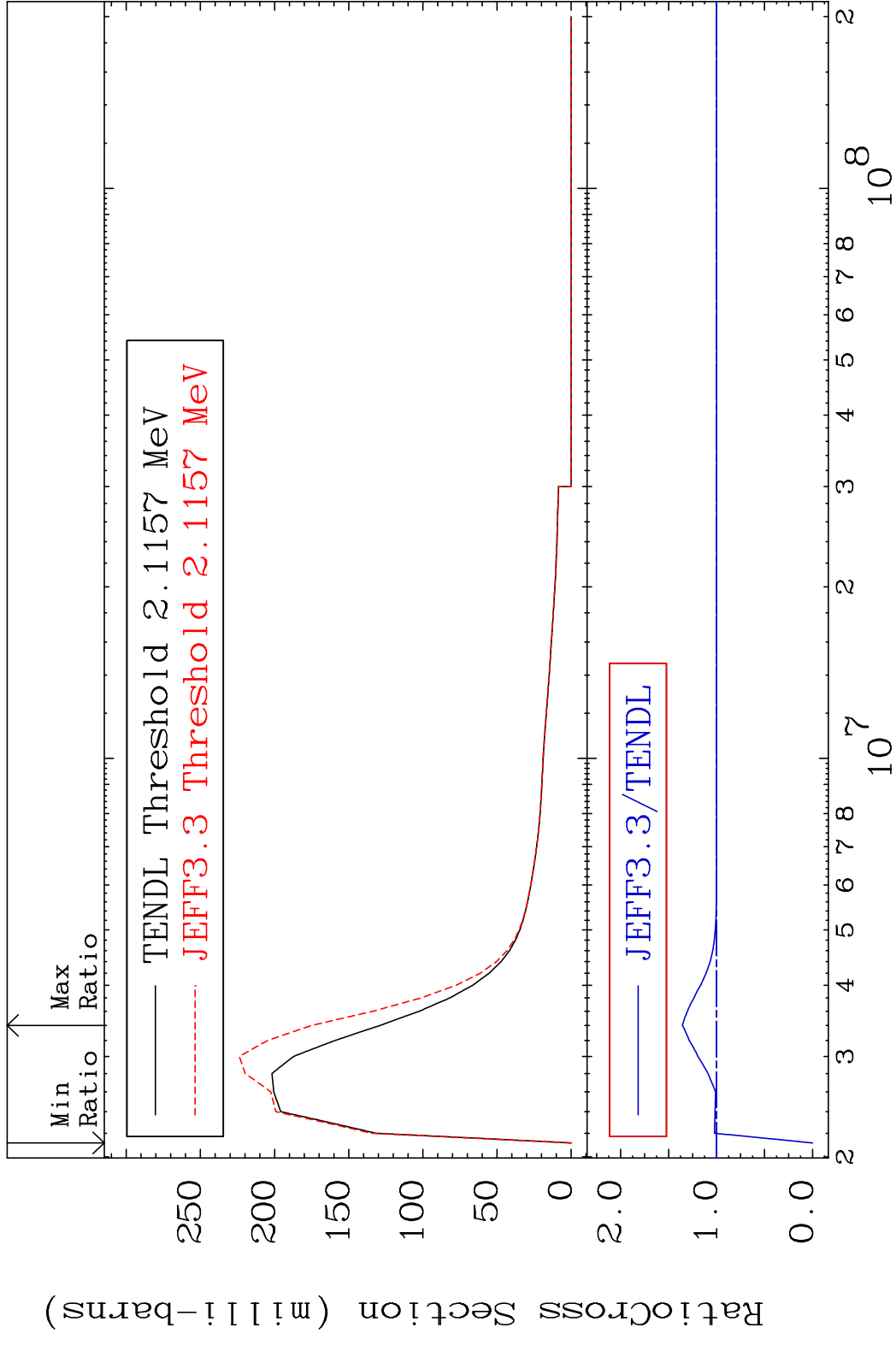
MAT 6025 MT= 51 (n,n') Level 60-Nd-142
 Cross Section 0.000 To 34.03 %



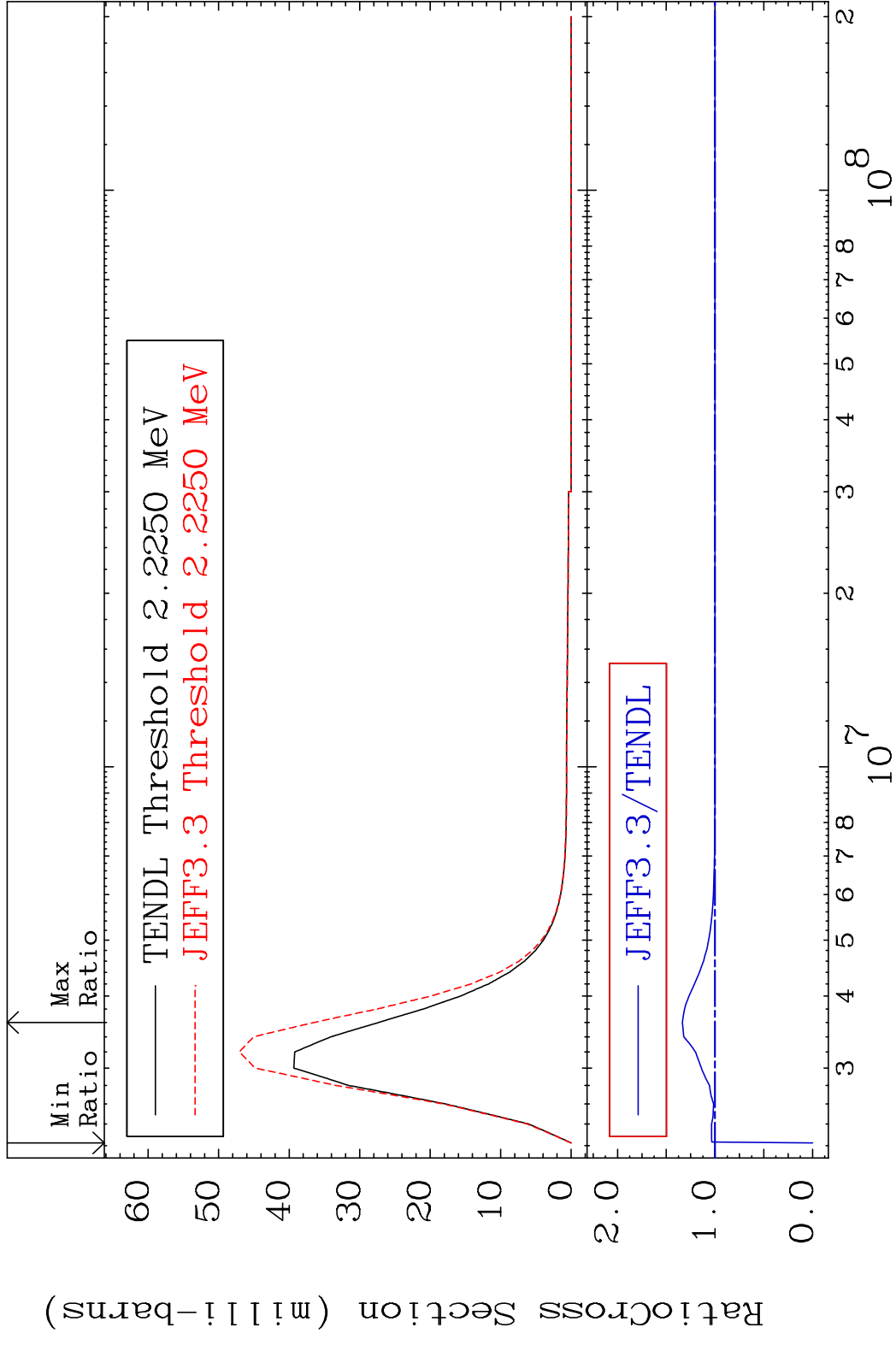
MAT 6025 MT= 52 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 55.42 %



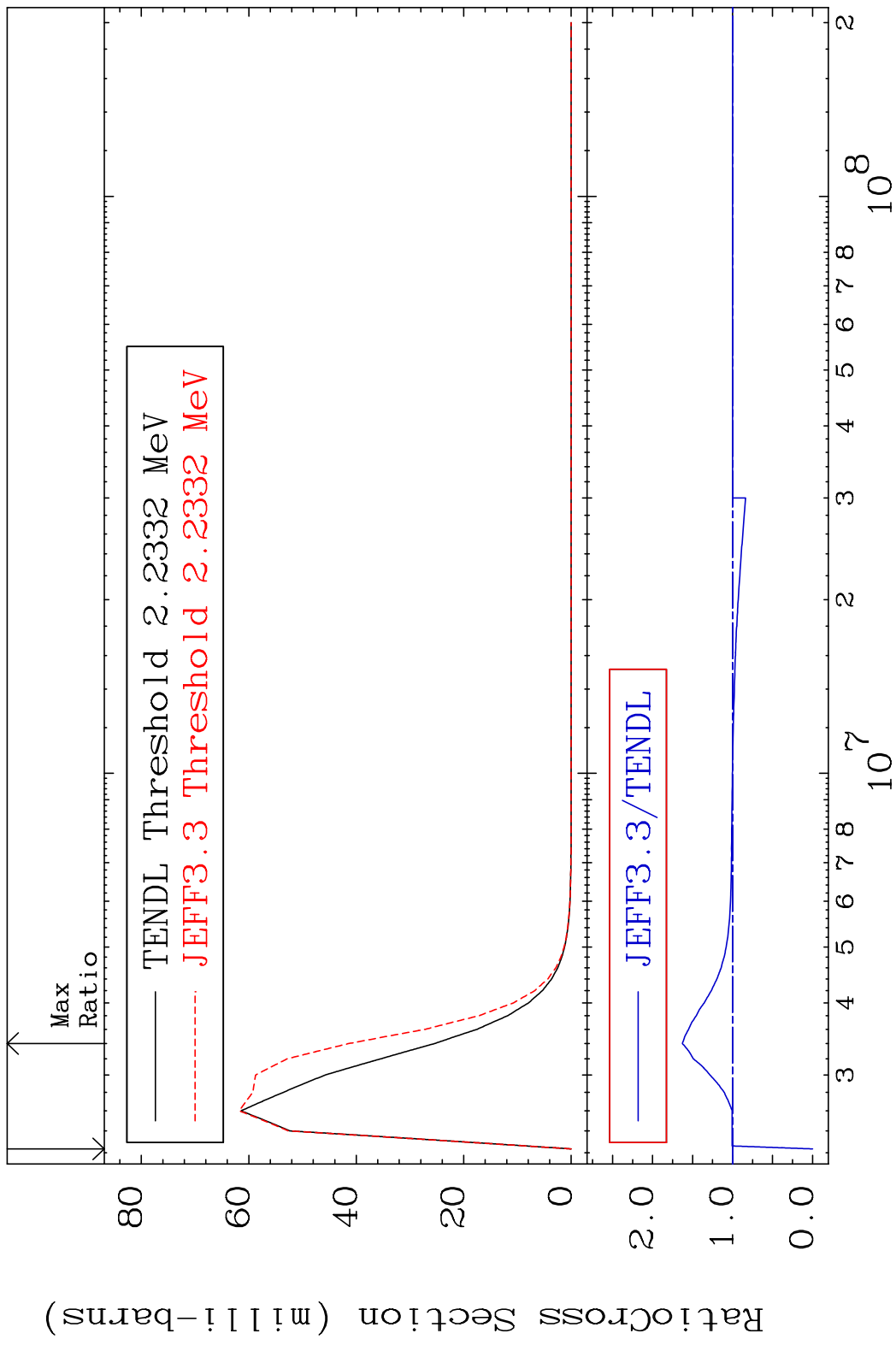
MAT 6025 MT= 53 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 35.69 %



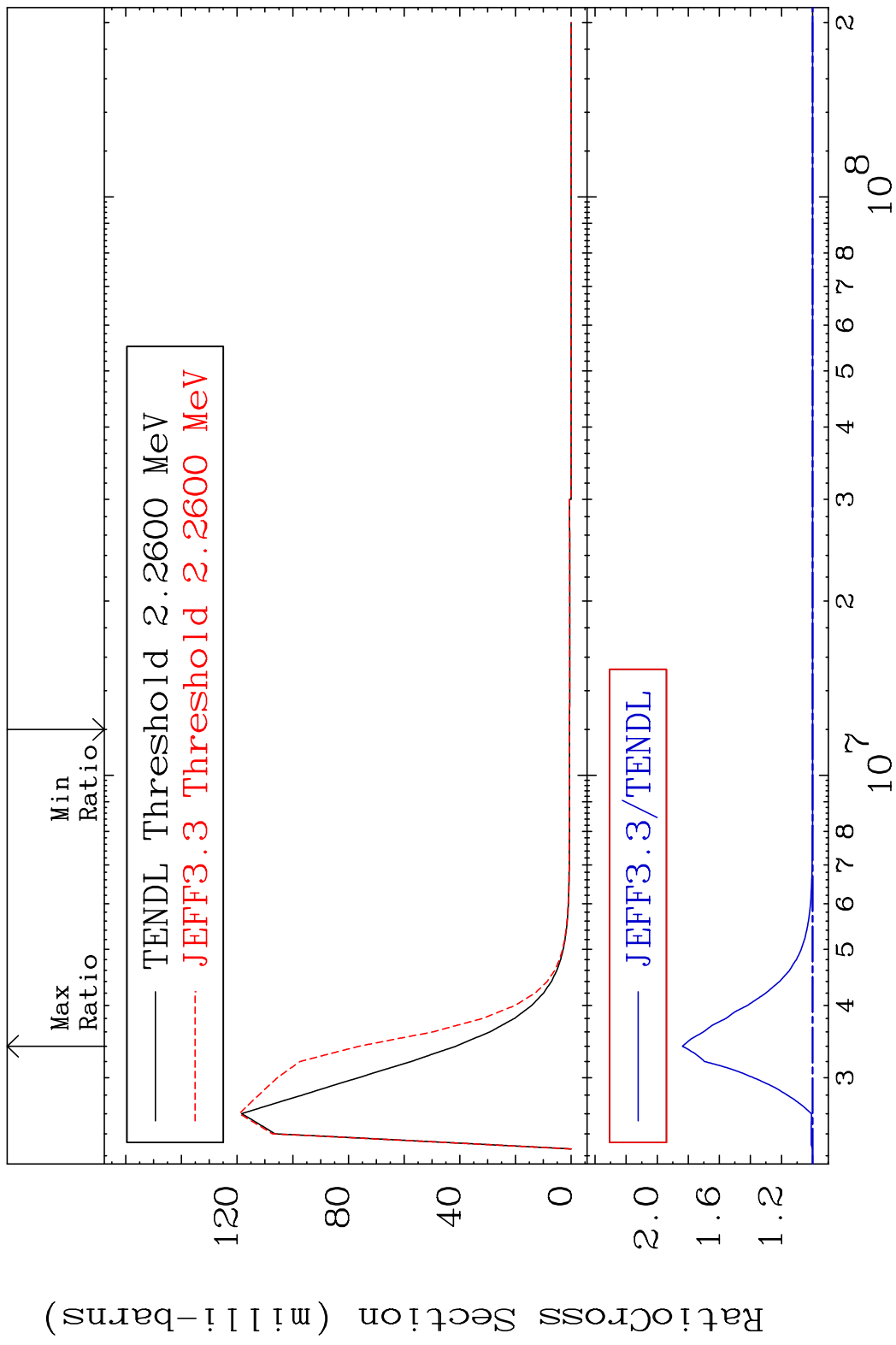
MAT 6025 MT= 54 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 33.54 %



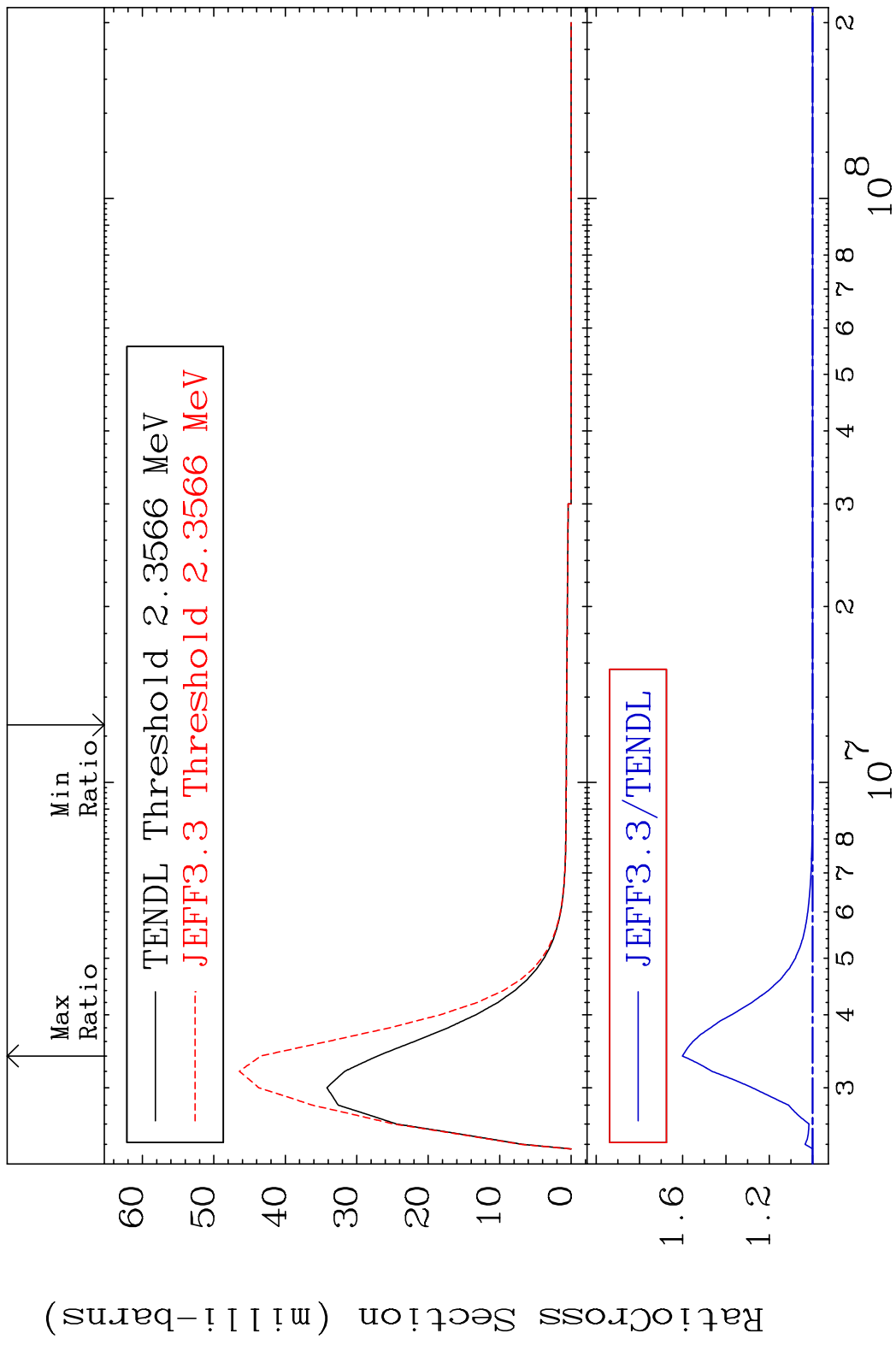
MAT 6025 MT= 55 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 62.77 %



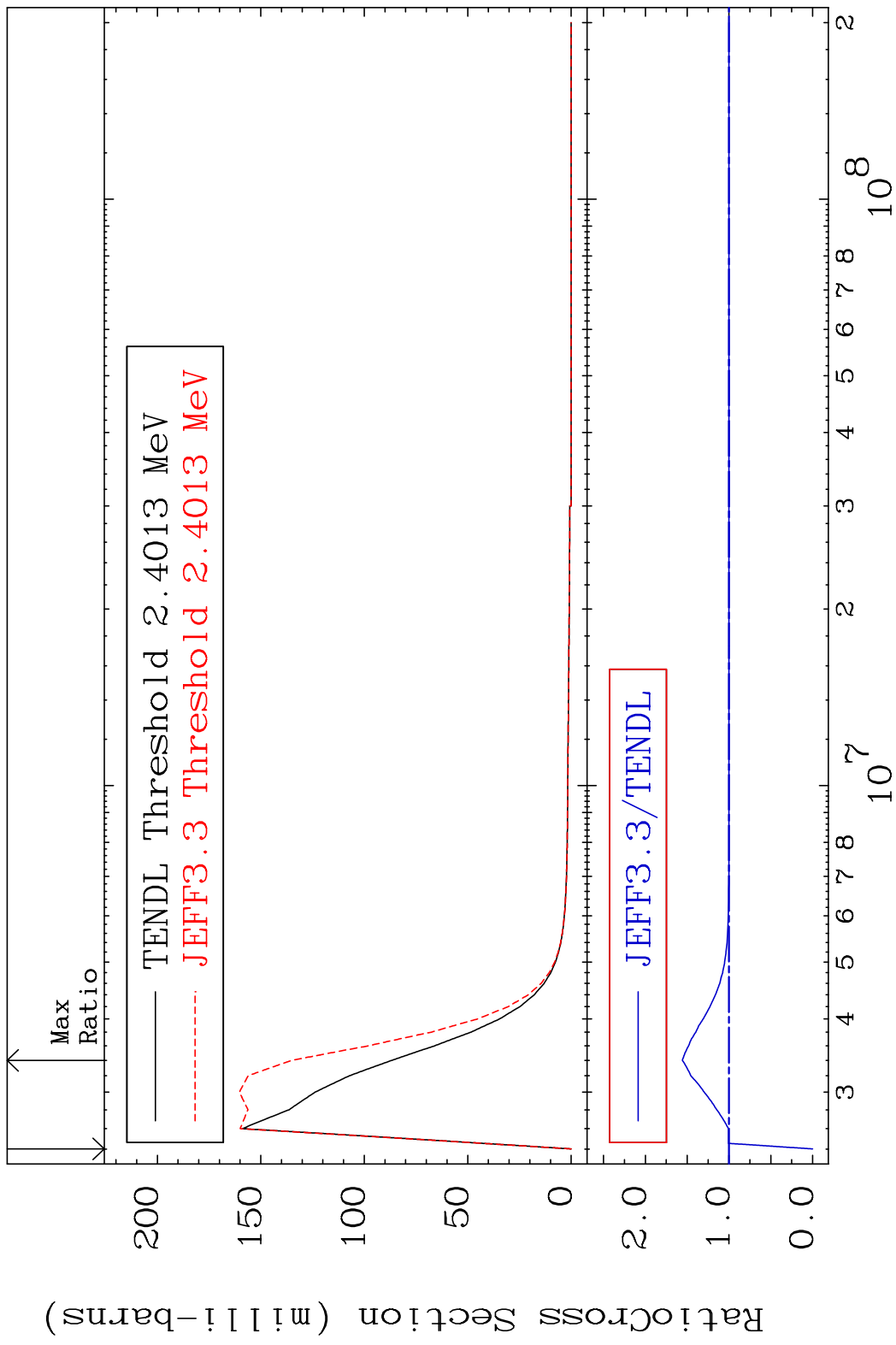
MAT 6025 MT= 56 (n,n') Level 60-Nd-142
 Cross Section 0.000 To 83.82 %



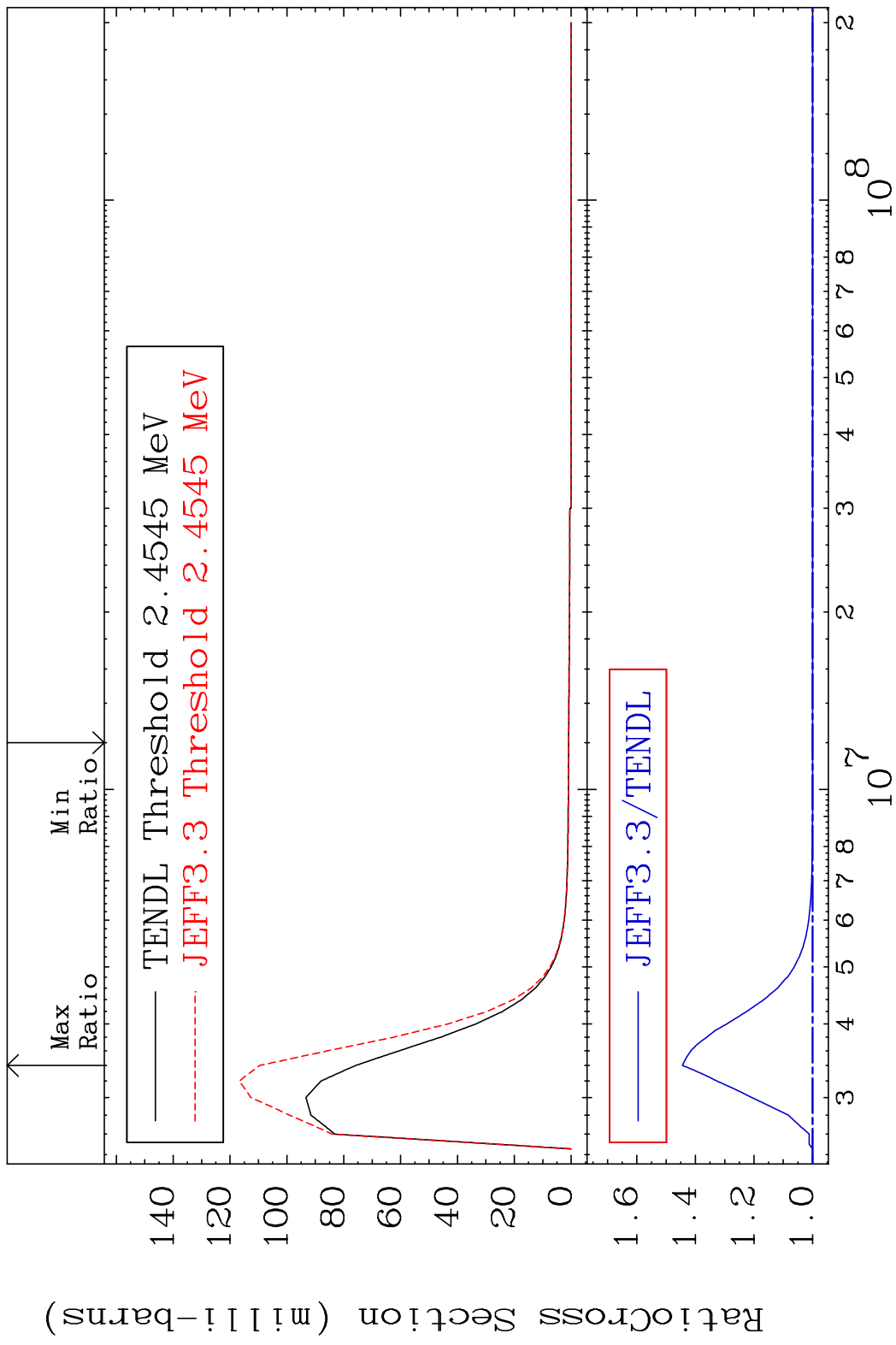
MAT 6025 MT= 57 (n,n') Level 60-Nd-142
 Cross Section 0.000 To 60.17 %



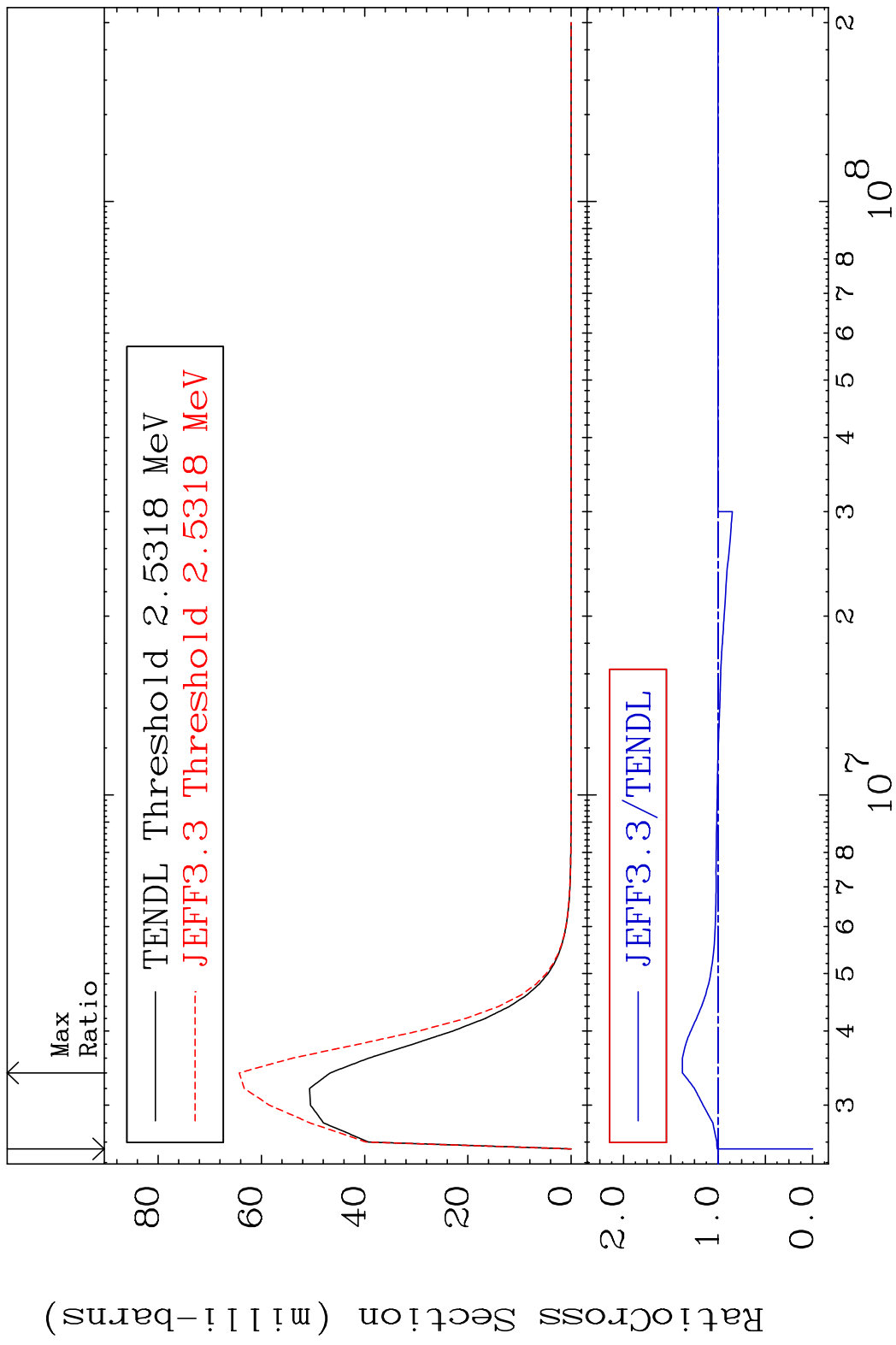
MAT 6025 MT= 58 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 55.77 %



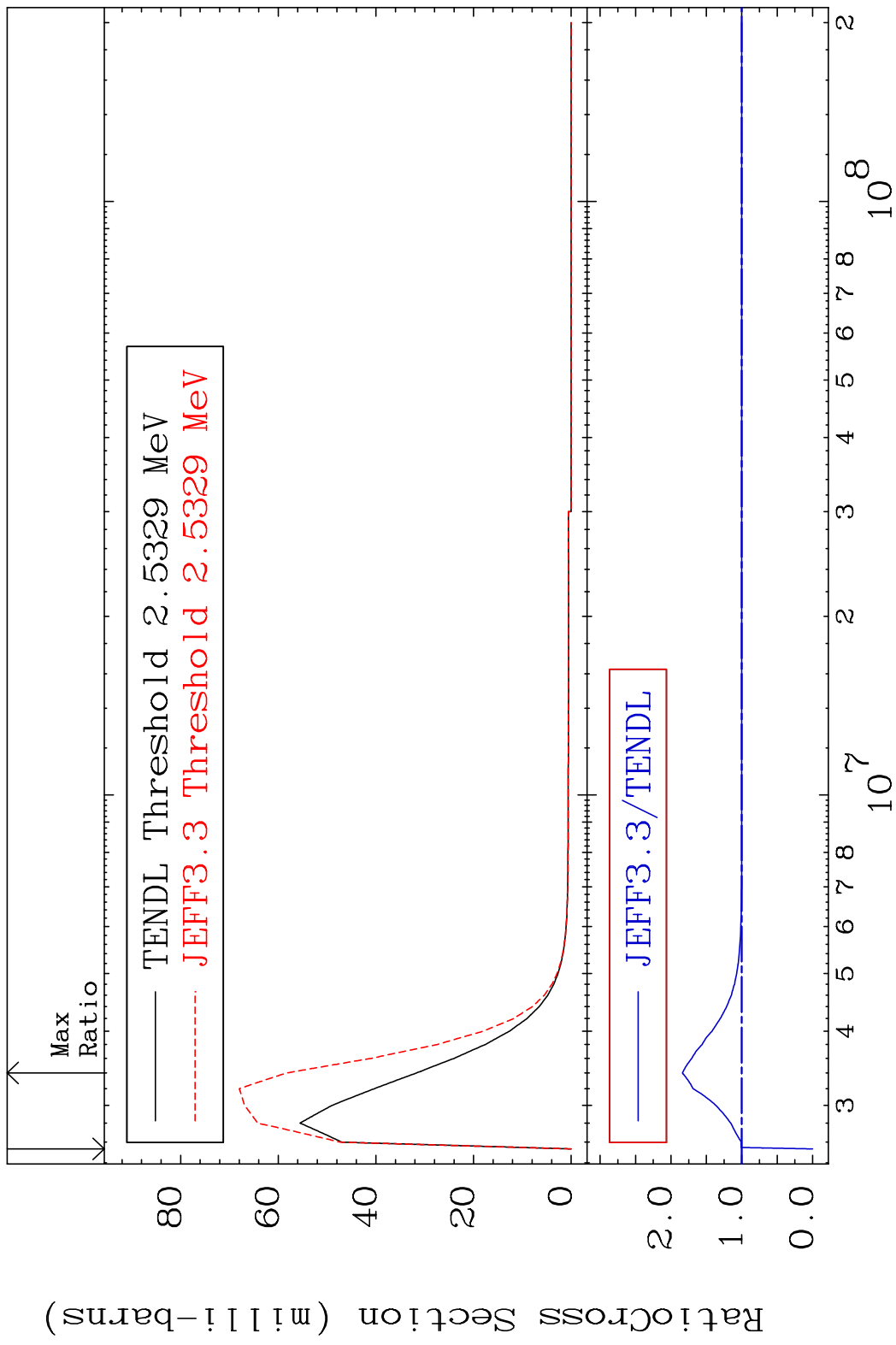
MAT 6025 MT= 59 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 44.46 %



MAT 6025 MT= 60 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 37.75 %

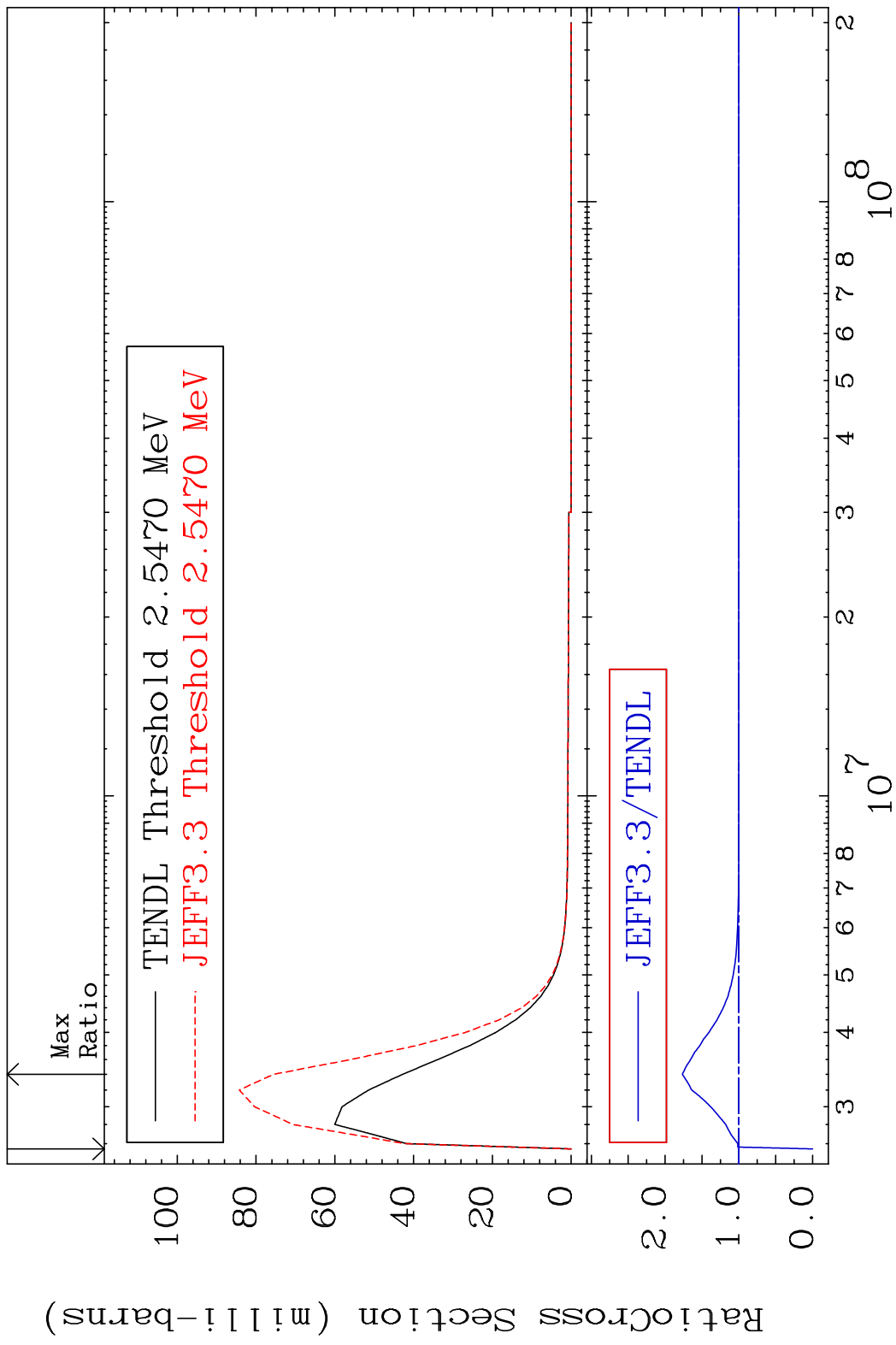


MAT 6025 MT= 61 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 83.92 %

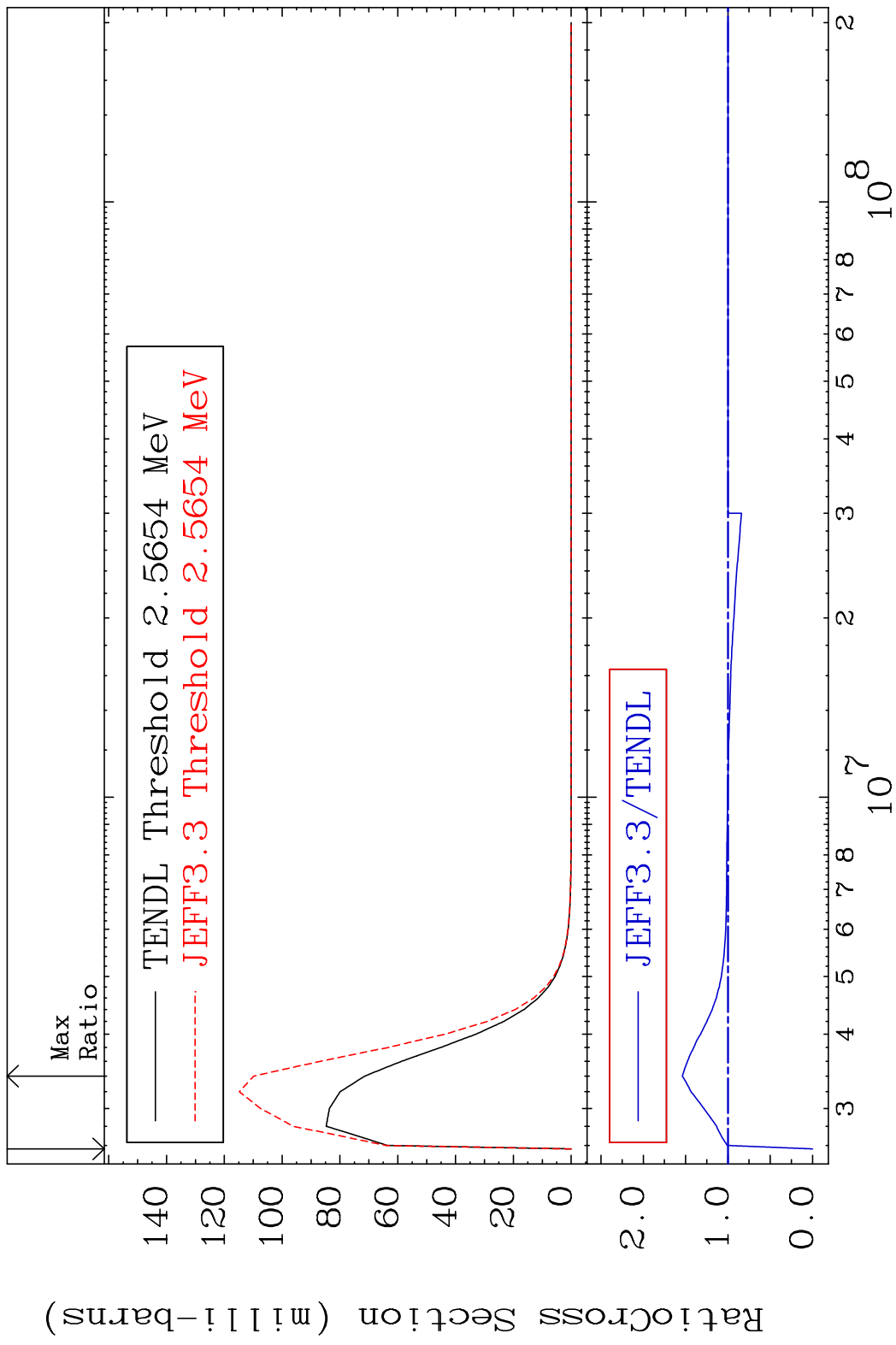


30 Incident Energy (eV) 60-Nd-142

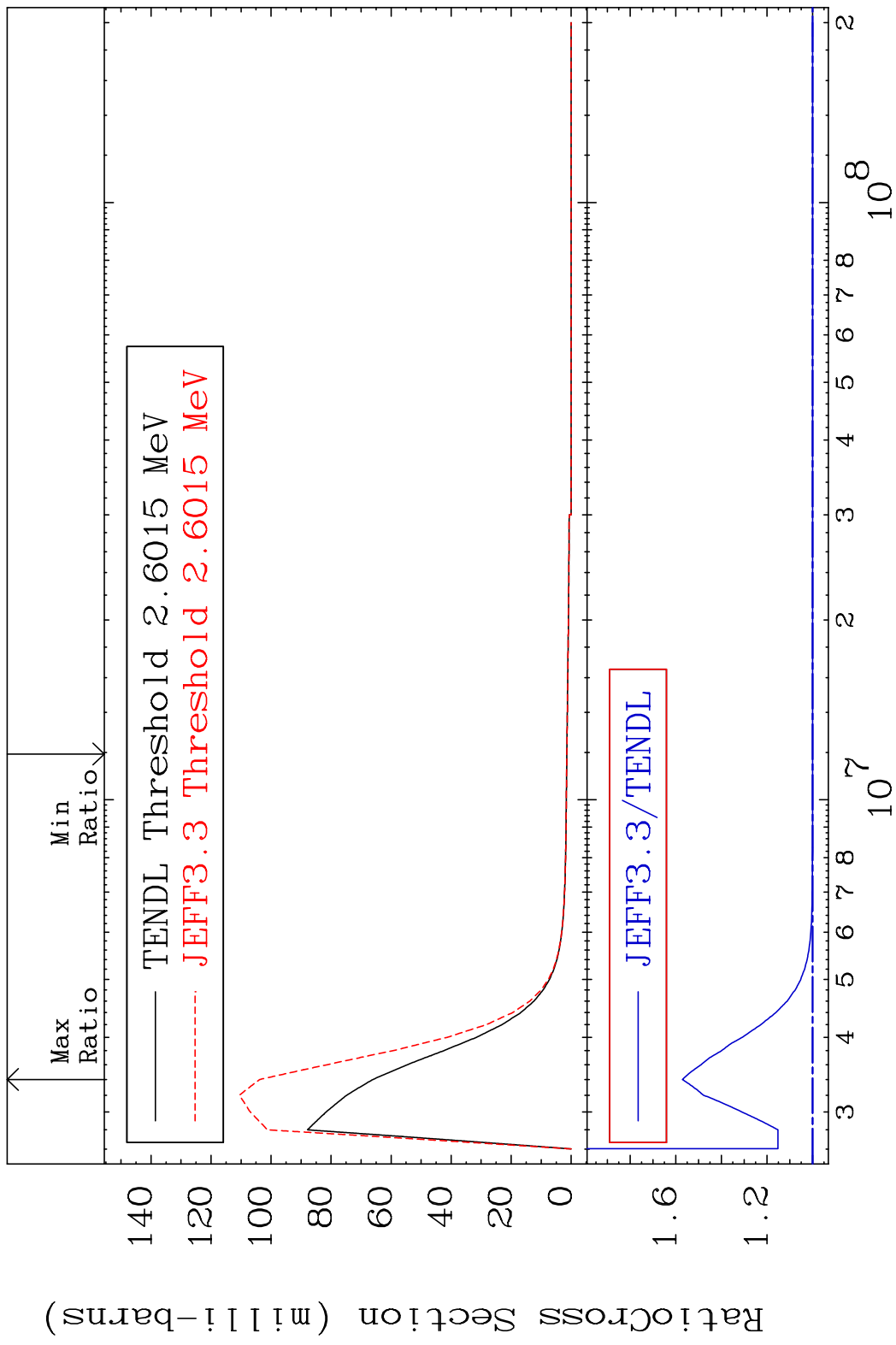
MAT 6025 MT= 62 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 76.54 %



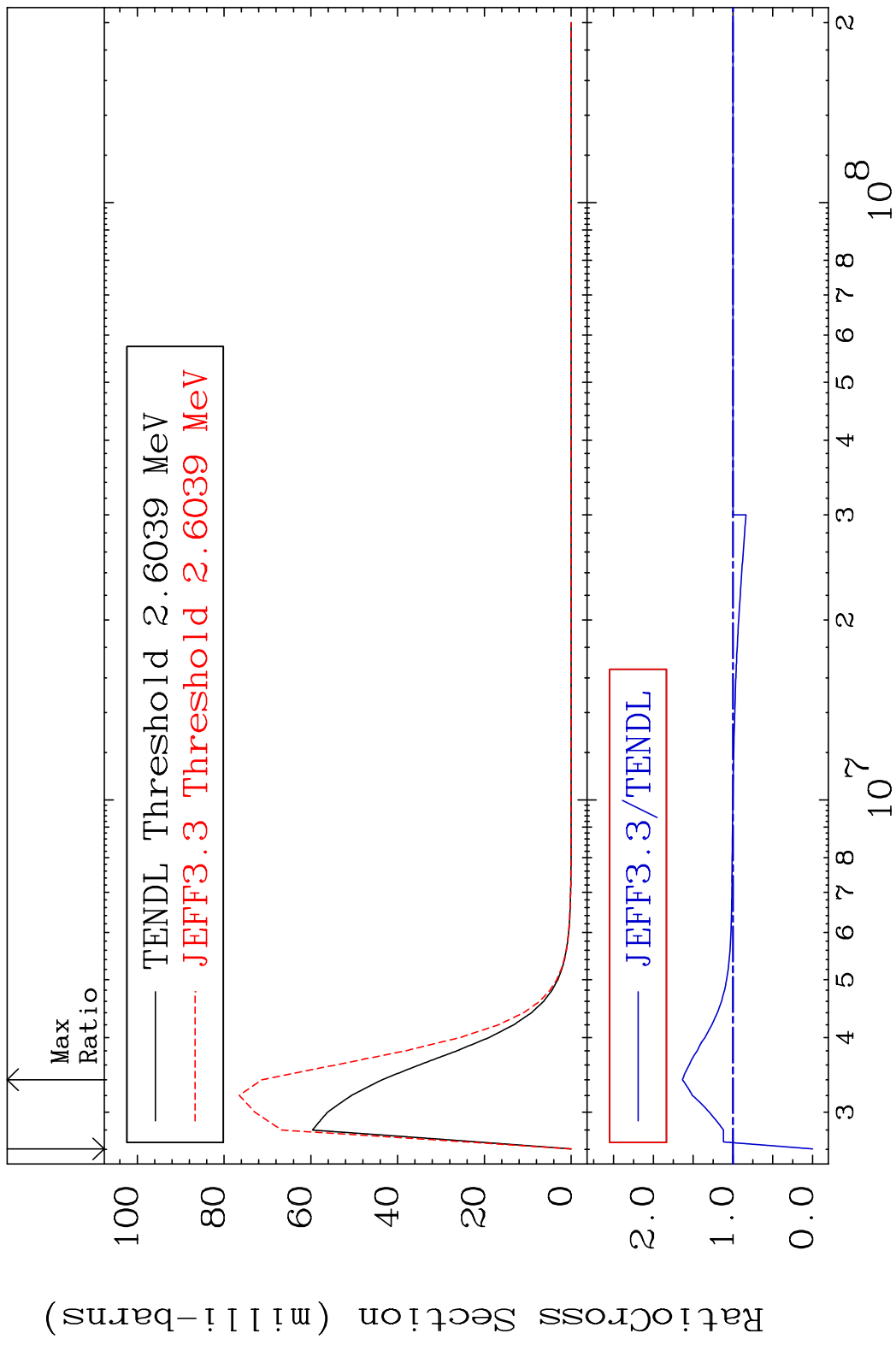
MAT 6025 MT= 63 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 53.87 %



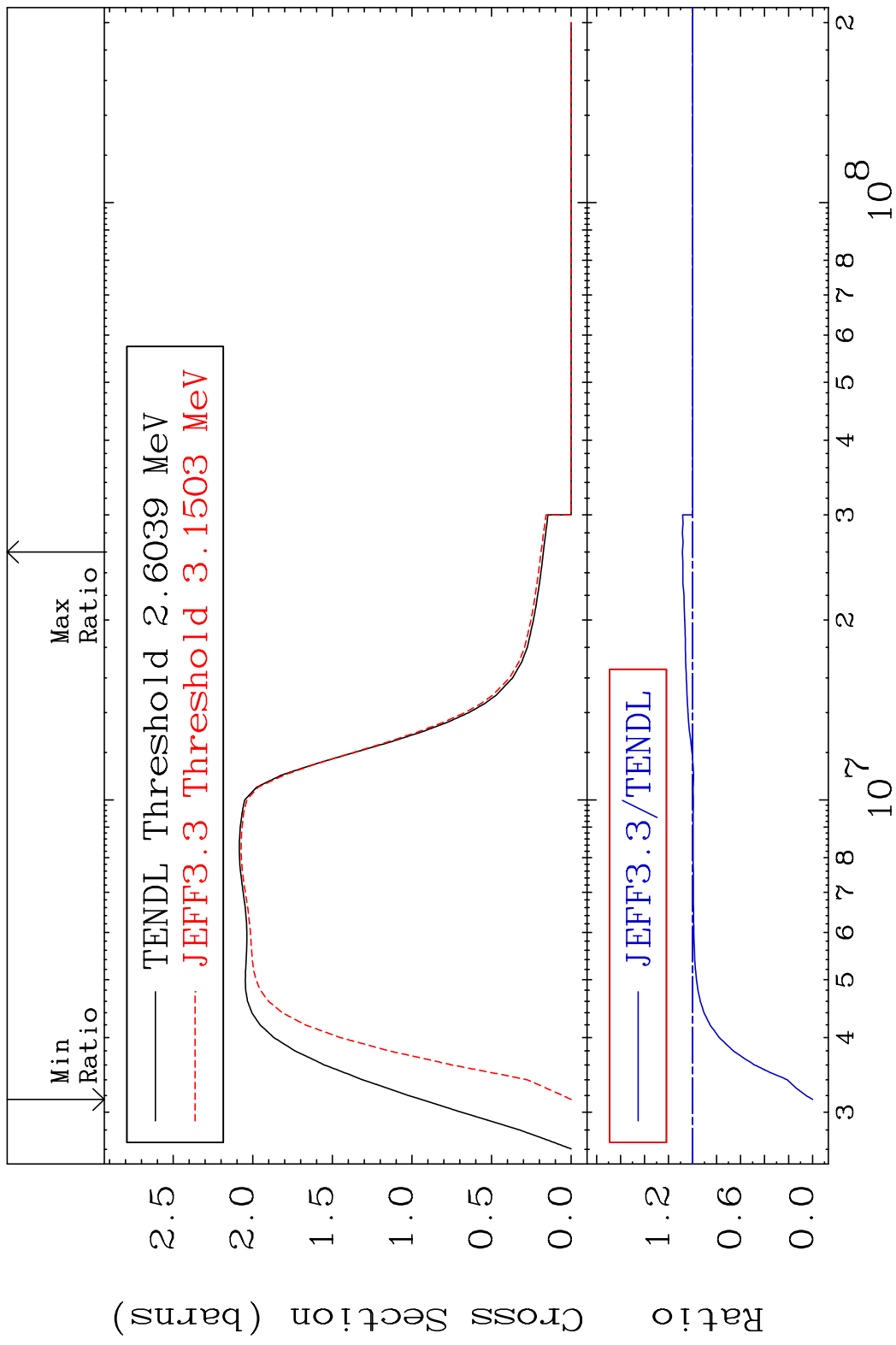
MAT 6025 MT= 64 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 57.08 %



MAT 6025 MT= 65 (n,n') Level 60-Nd-142
 Cross Section -100.0 To 63.63 %



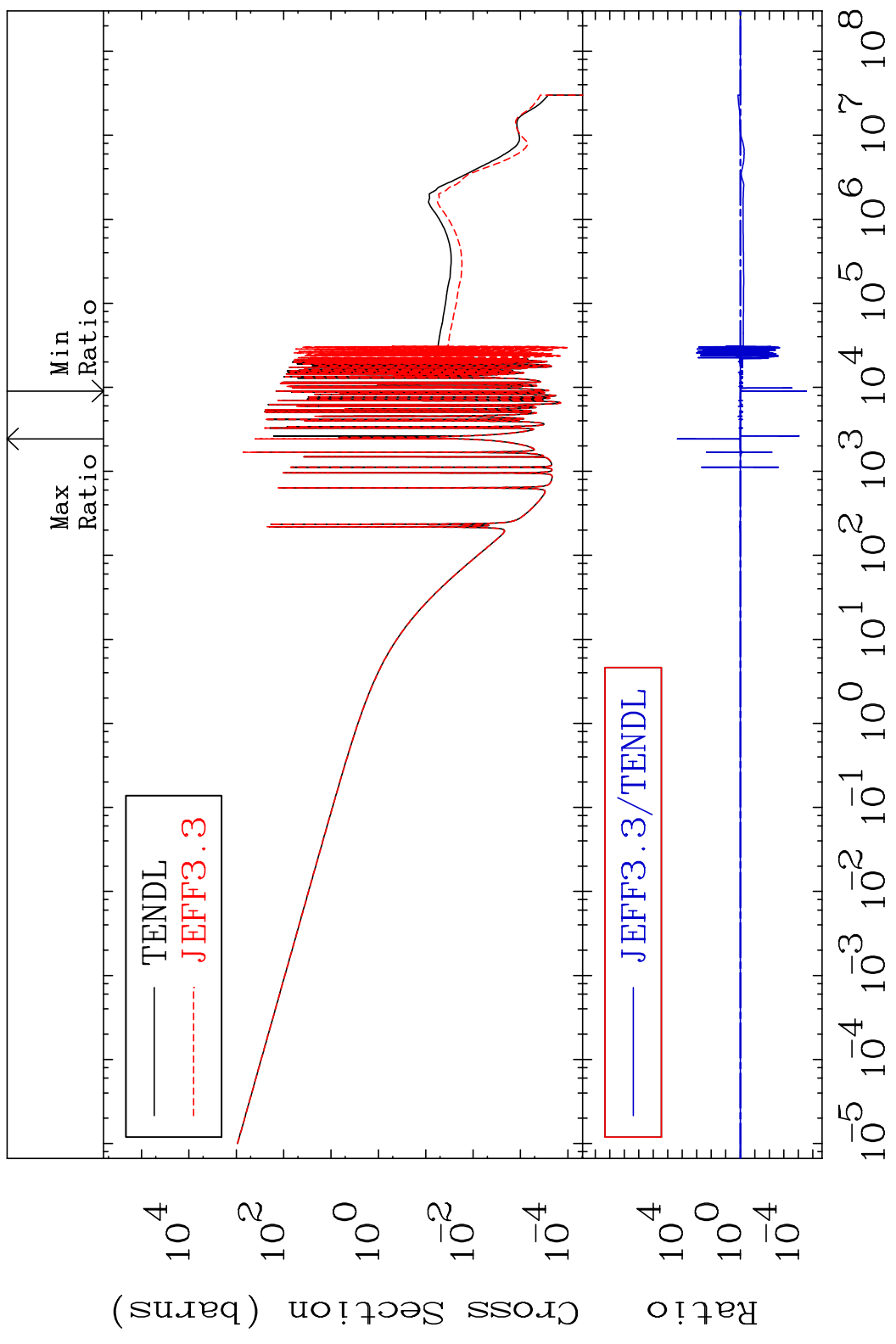
MAT 6025 (n, n') Continuum 60-Nd-142
 Cross Section -100.0 To 8.494 %

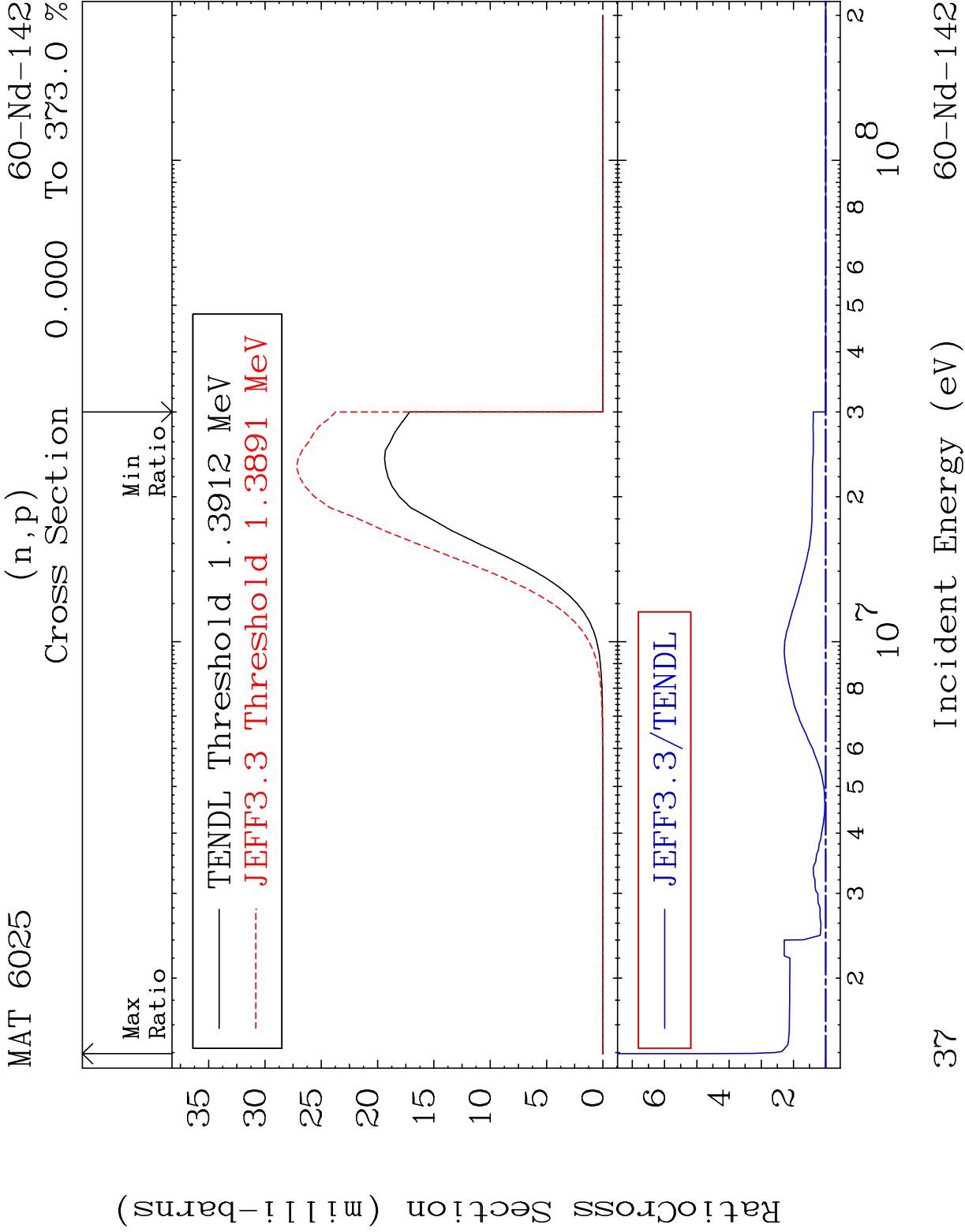


35 Incident Energy (eV) 60-Nd-142

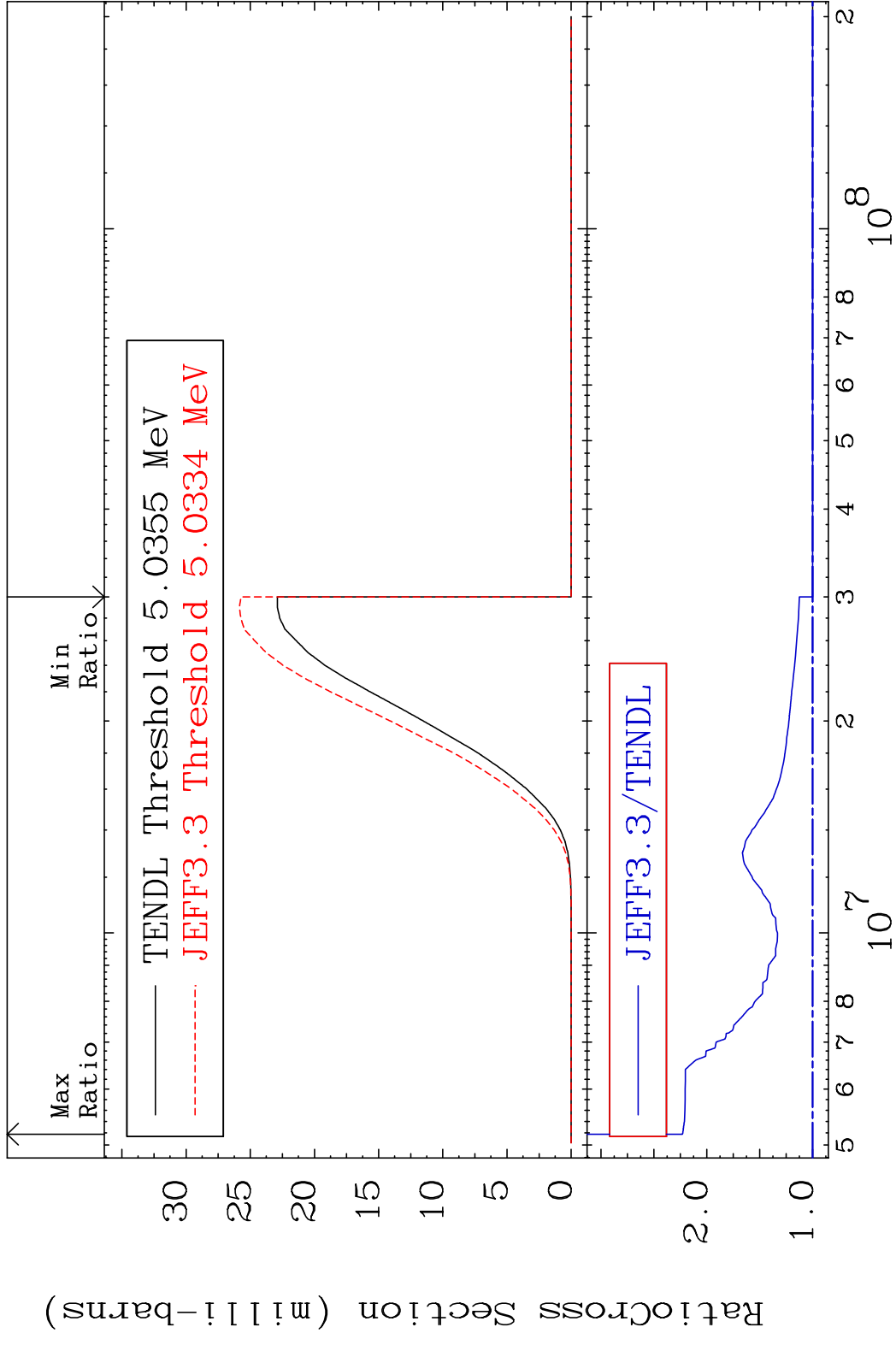
MAT 6025

(n, γ)
Cross Section -100.0 To 9999. %
60-Nd-142

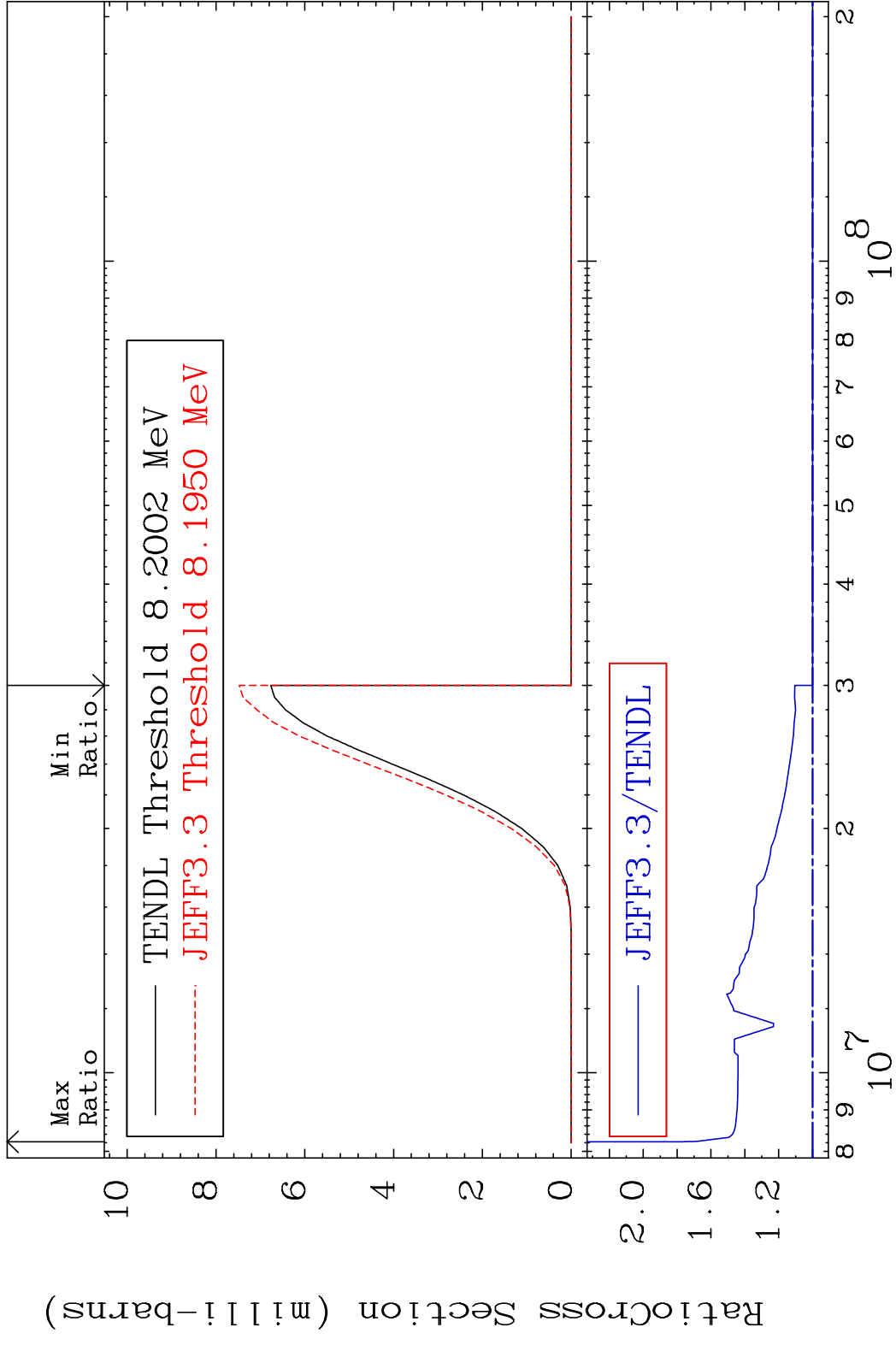




MAT 6025 (n,d) 60-Nd-142
 Cross Section 0.000 To 123.1 %



MAT 6025 (n, t) Cross Section 0.000 To 76.91 % 60-Nd-142

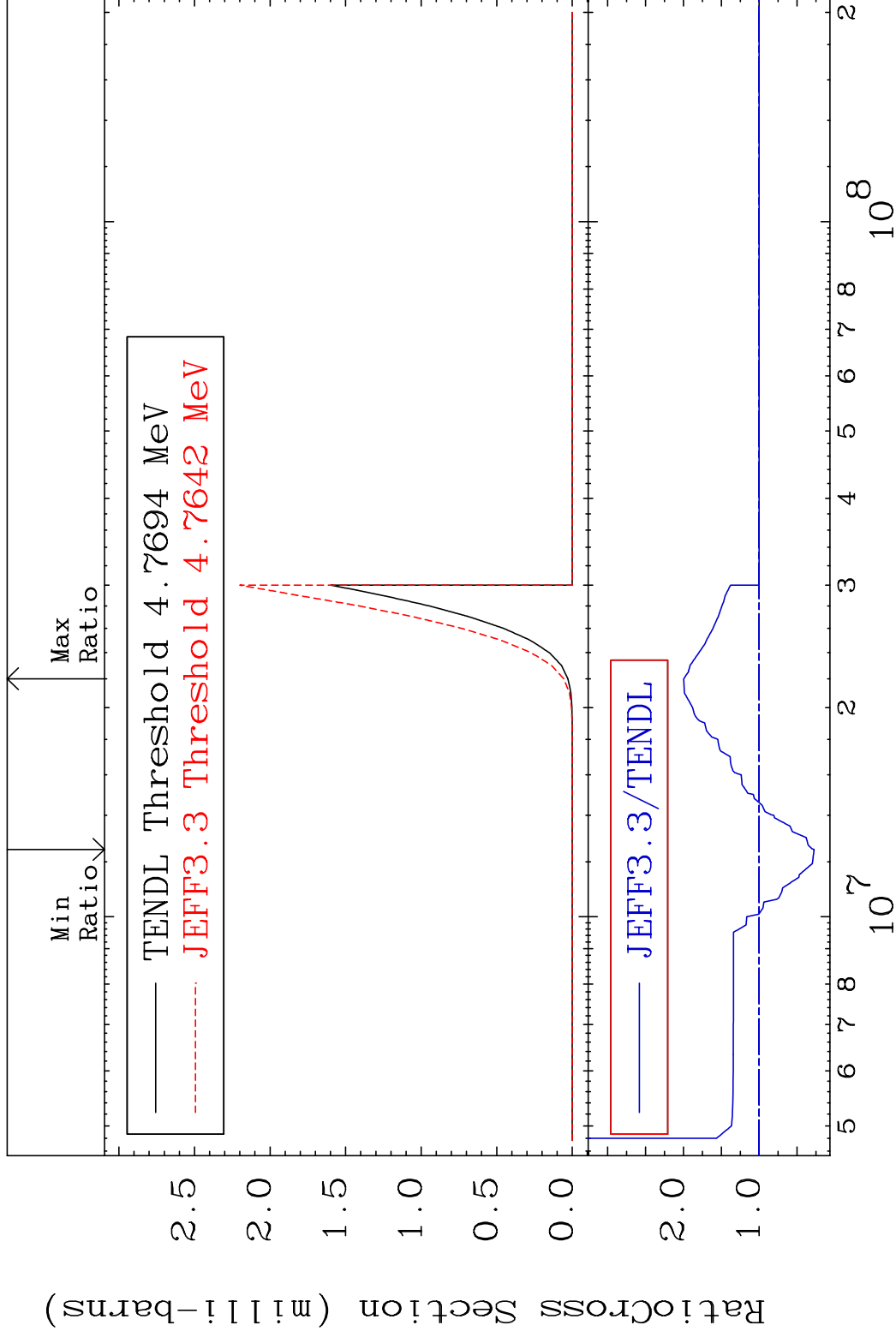


MAT 6025

(n, He-3)

60-Nd-142

Cross Section -72.46 To 99.66 %



40

Incident Energy (eV)

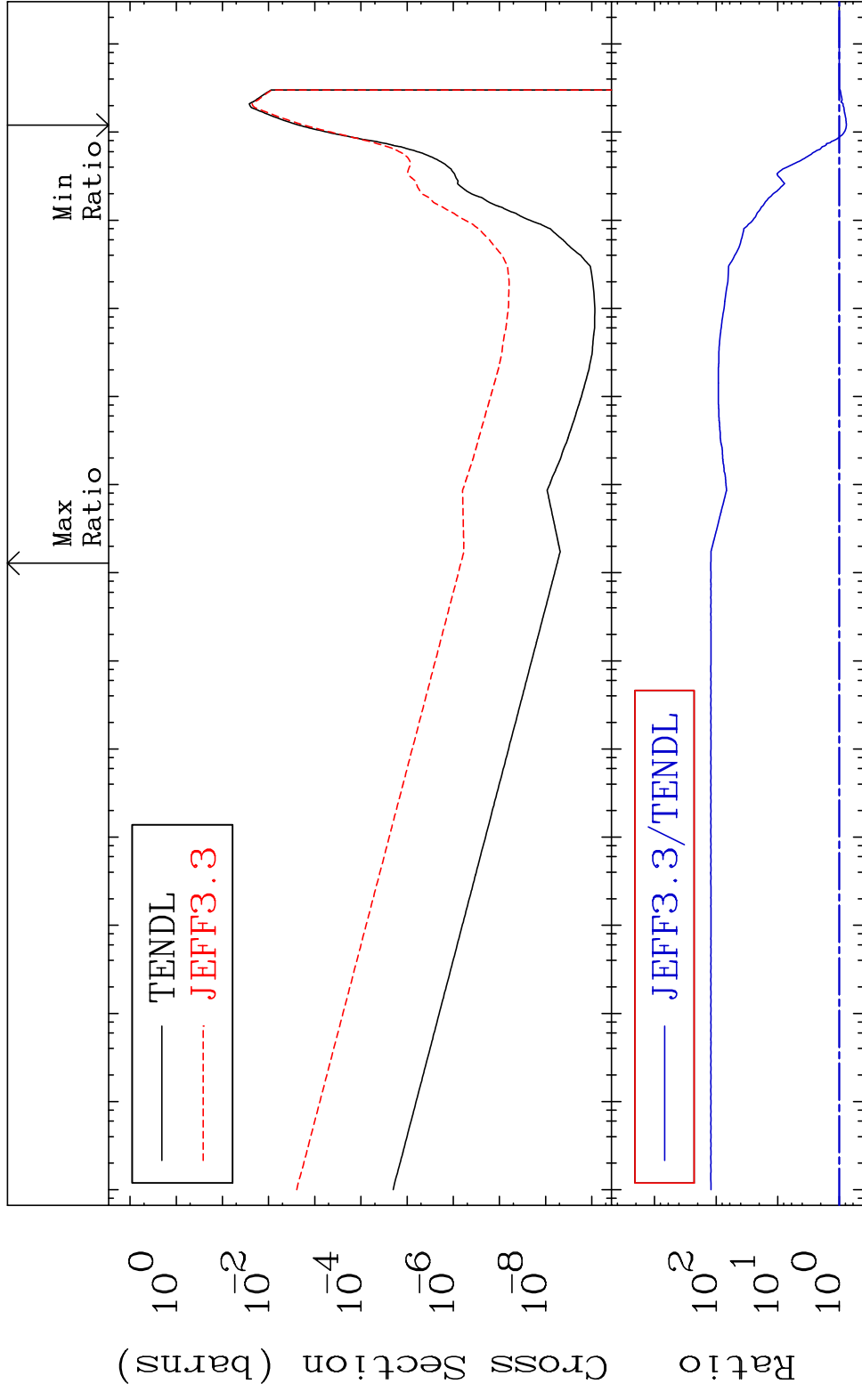
60-Nd-142

MAT 6025

60-Nd-142

(n, α)

Cross Section -22.95 To 9999. %

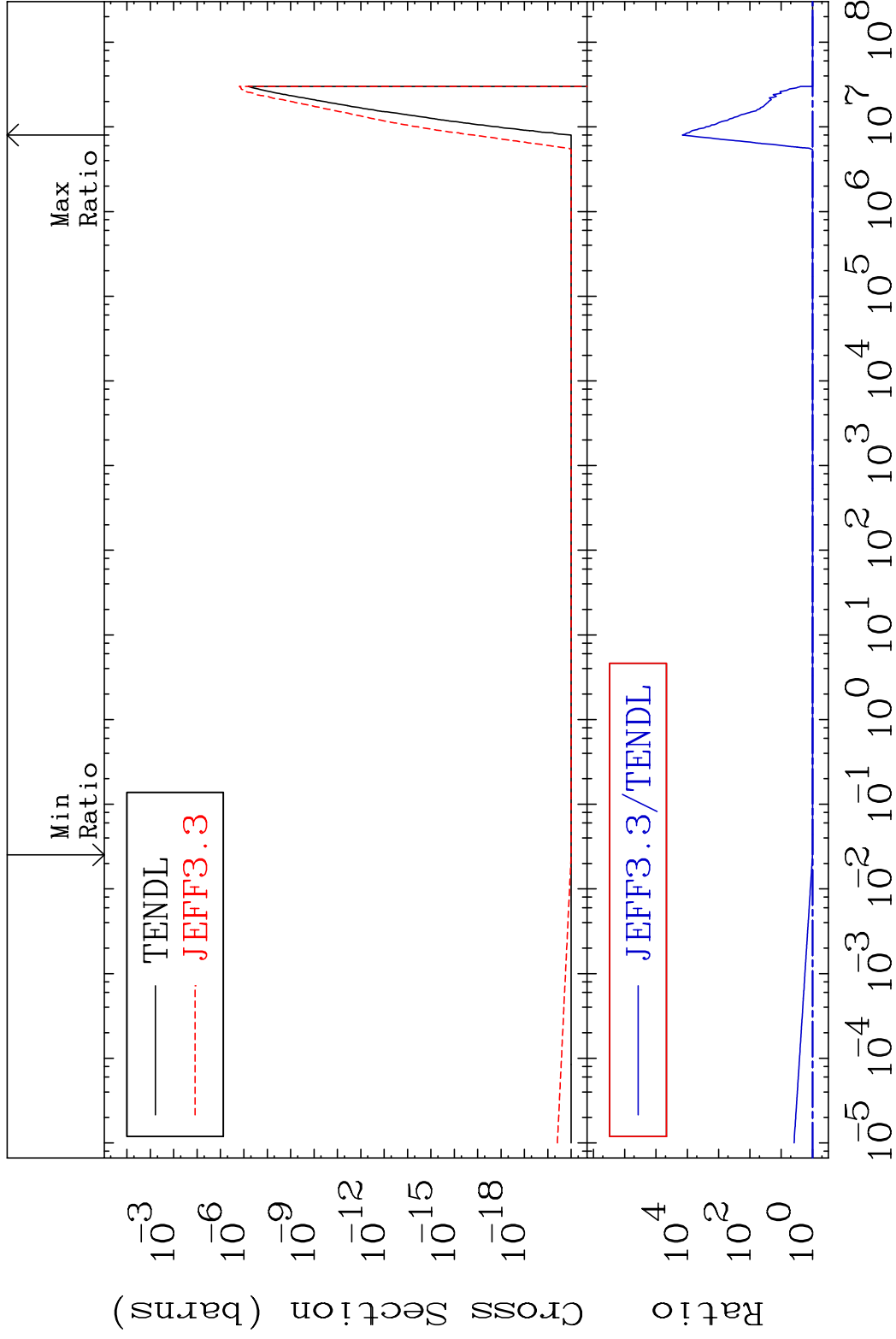


MAT 6025

(n, 2α)

60-Nd-142

Cross Section 0.000 To 9999. %



42

Incident Energy (eV)

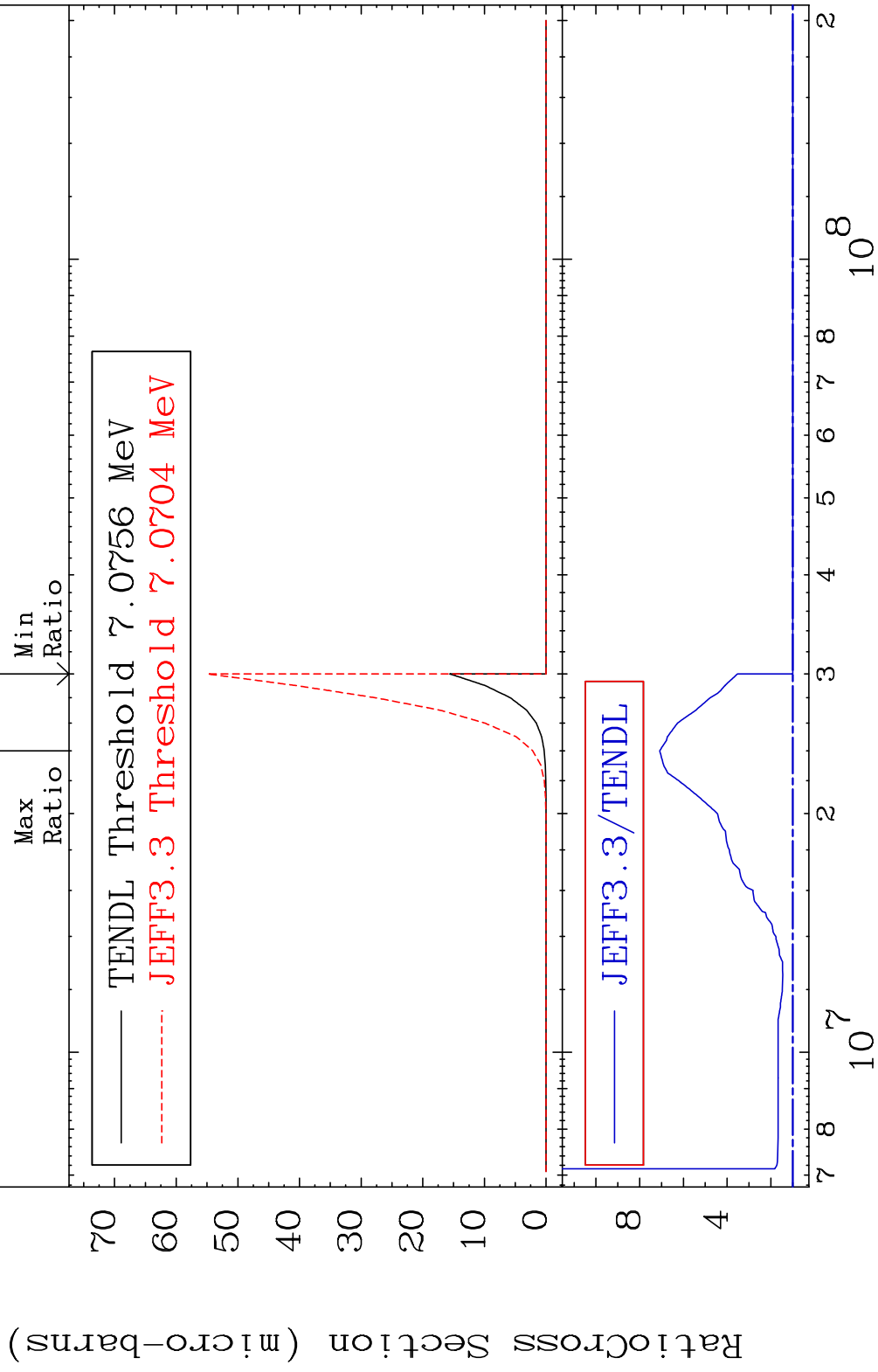
60-Nd-142

MAT 6025

(n,2p)

60-Nd-142

Cross Section 0.000 To 608.5 %



43

Incident Energy (eV)

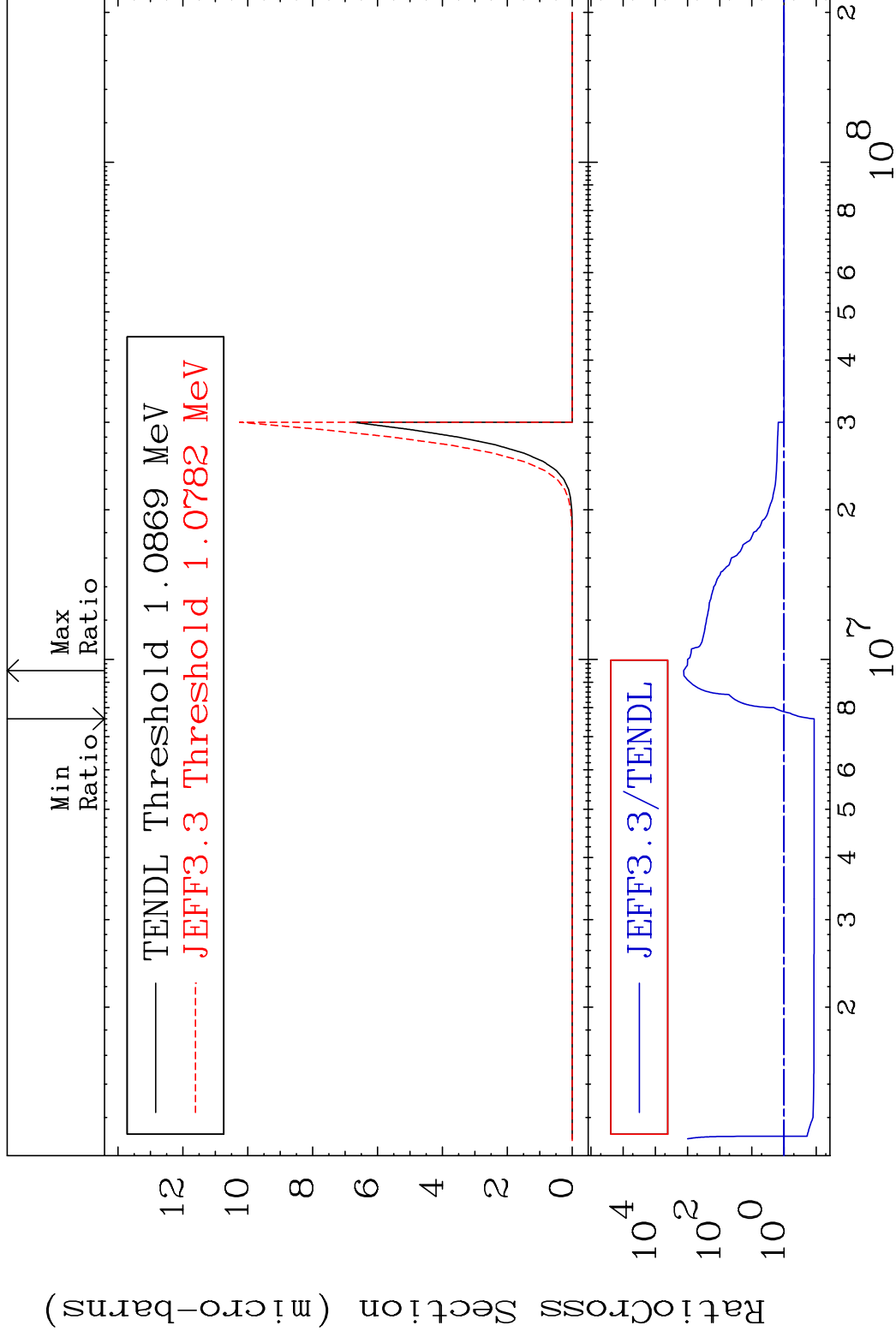
60-Nd-142

MAT 6025

(n,p) α

60-Nd-142

Cross Section -88.36 To 9999. %

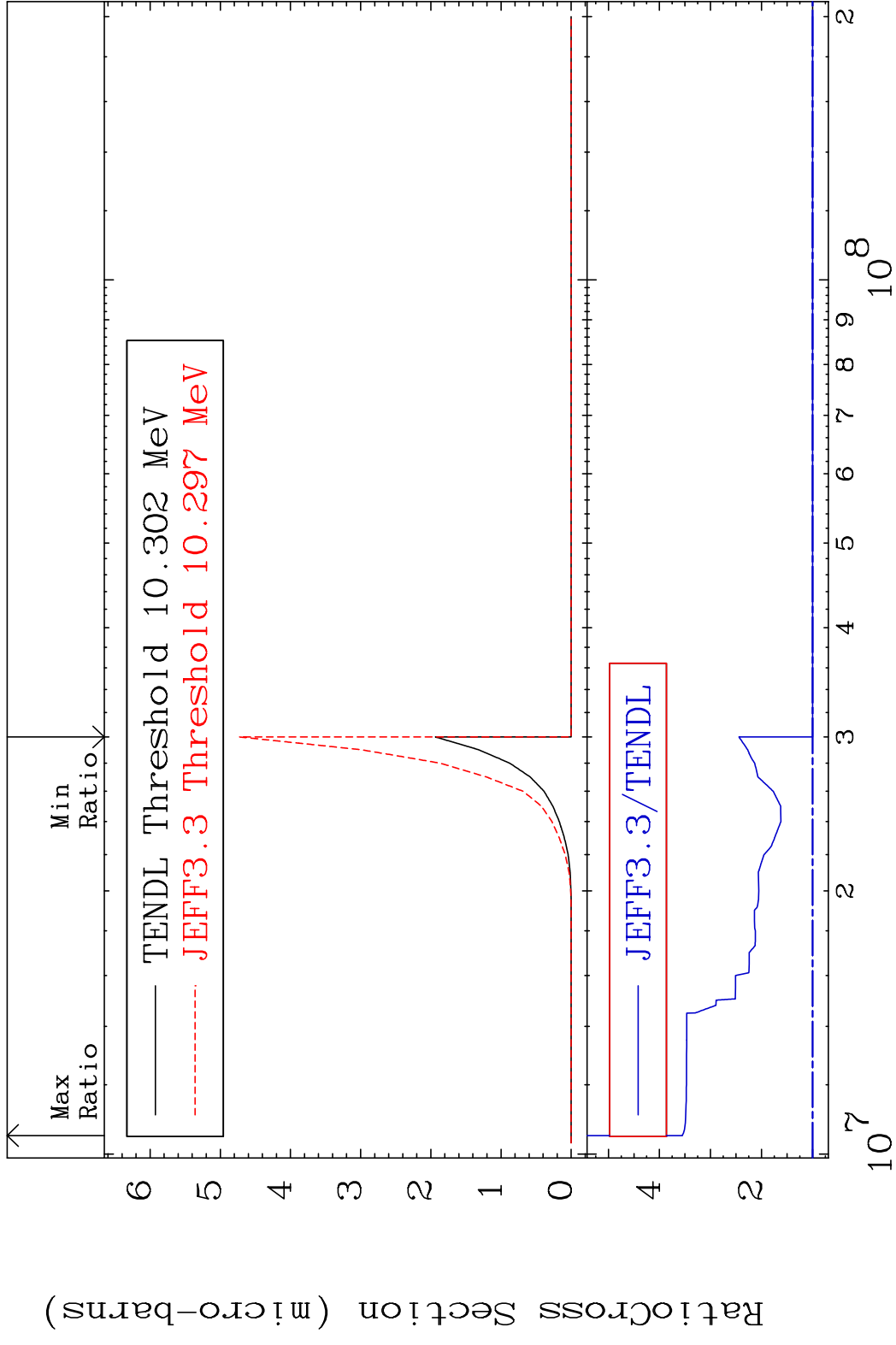


44

Incident Energy (eV)

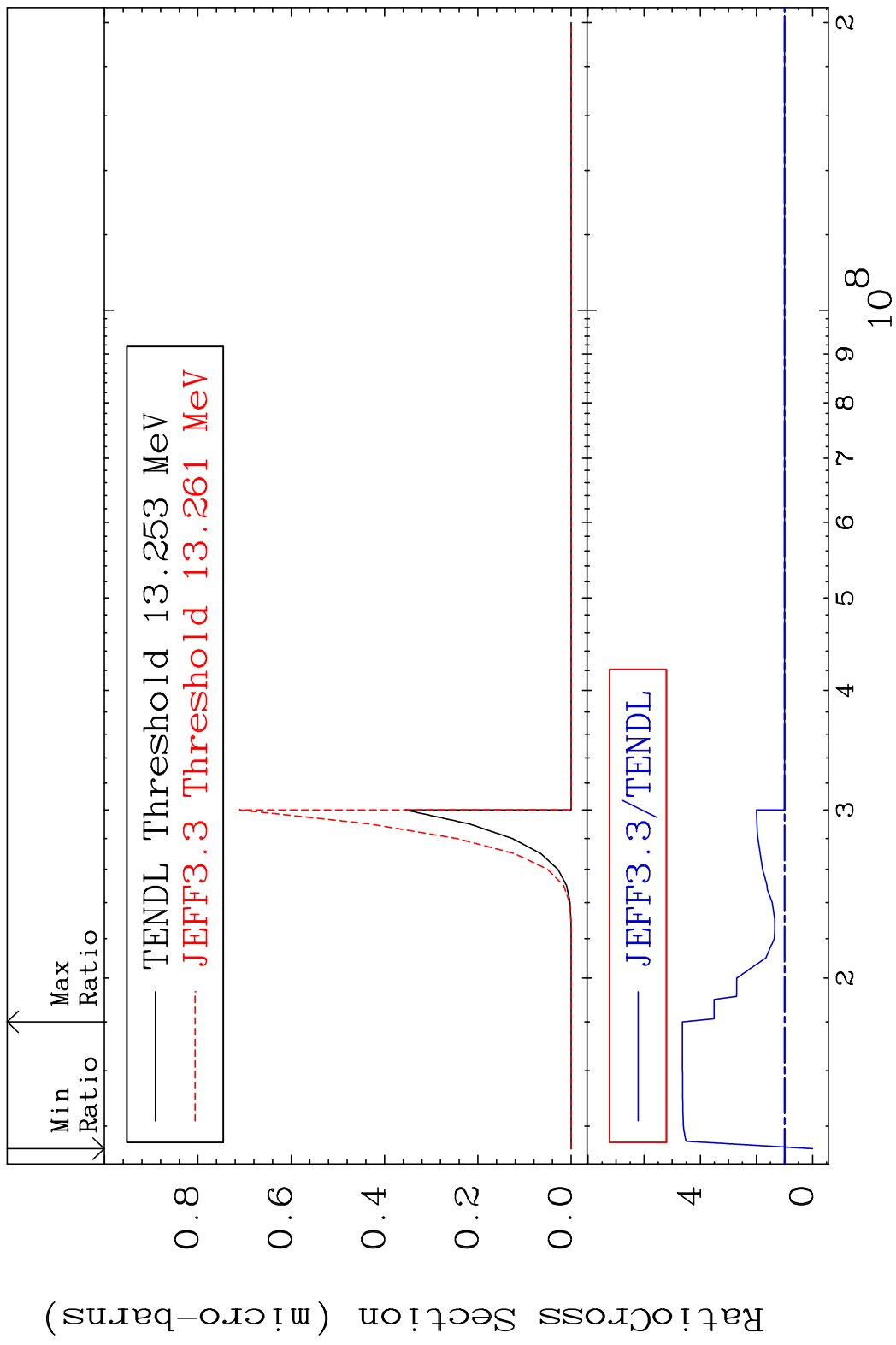
60-Nd-142

MAT 6025 (n,p) d 60-Nd-142
 Cross Section 0.000 To 255.1 %

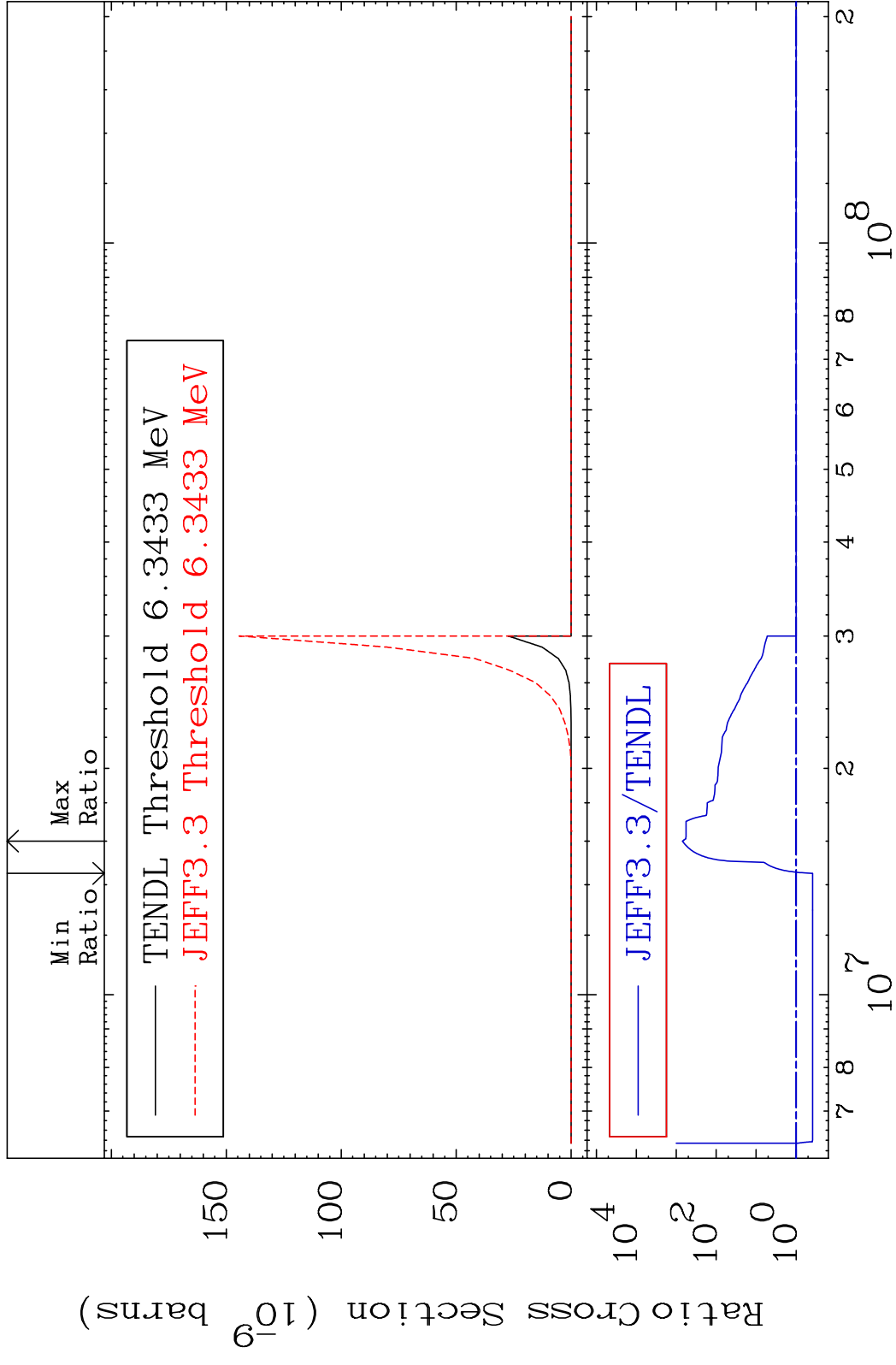


45 60-Nd-142

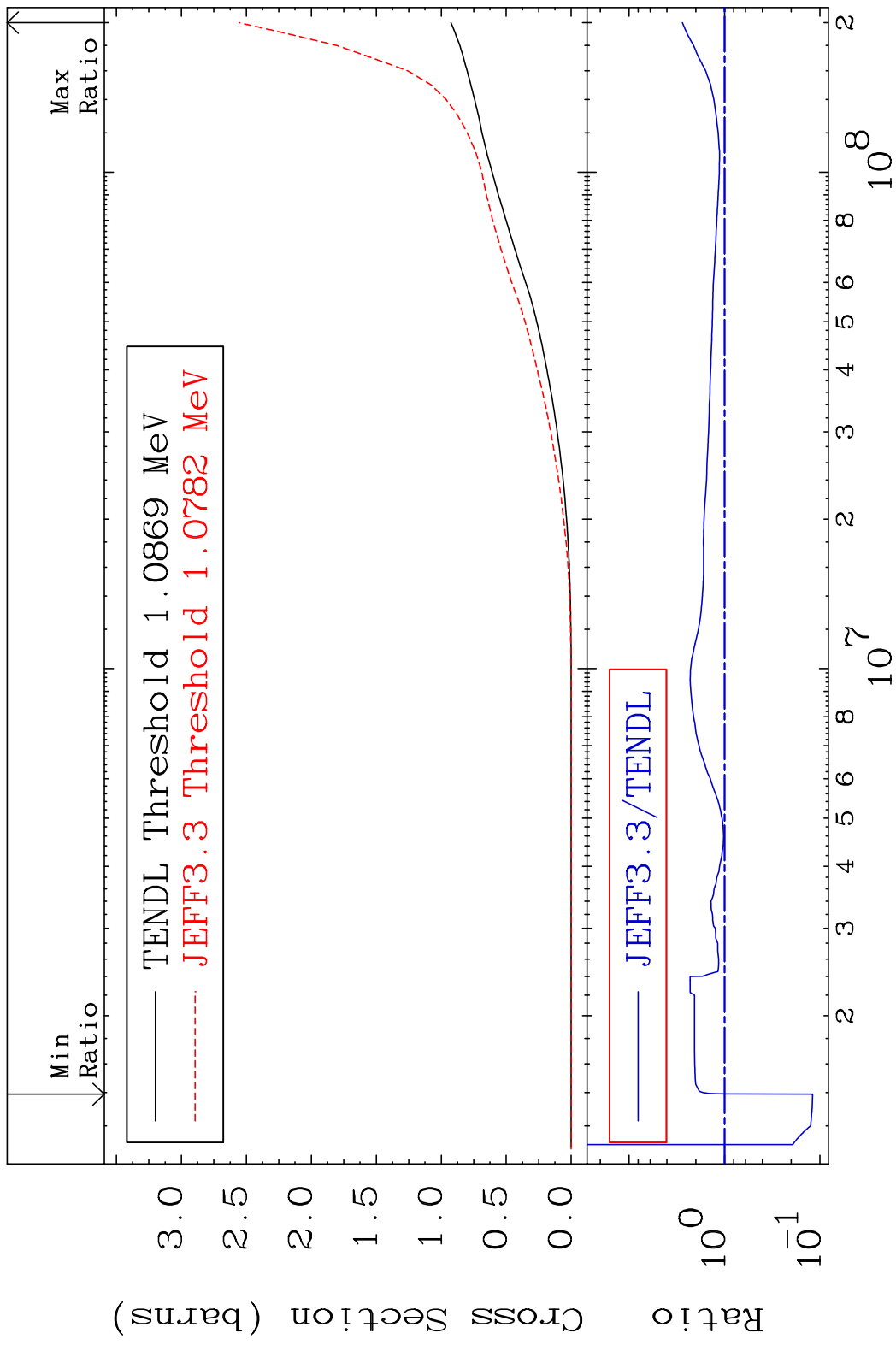
MAT 6025 (n,p) t 60-Nd-142
 Cross Section -100.0 To 364.0 %



MAT 6025 (n,d) α 60-Nd-142
 Cross Section -61.24 To 9999. %



MAT 6025 Hydrogen Production 60-Nd-142
 Cross Section -88.04 To 176.1 %

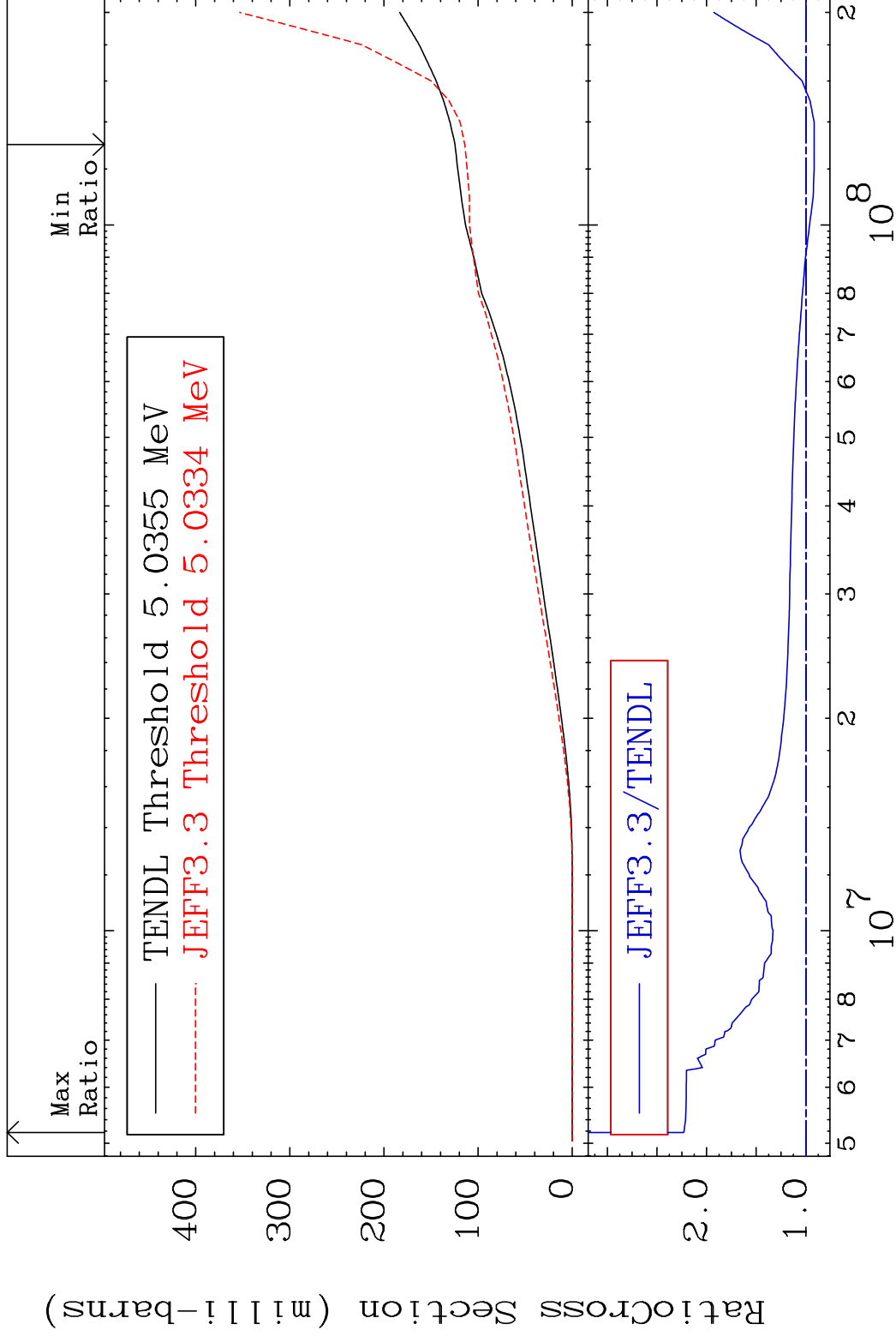


MAT 6025

Deuterium Production

60-Nd-142

Cross Section -8.310 To 123.1 %



49

Incident Energy (eV)

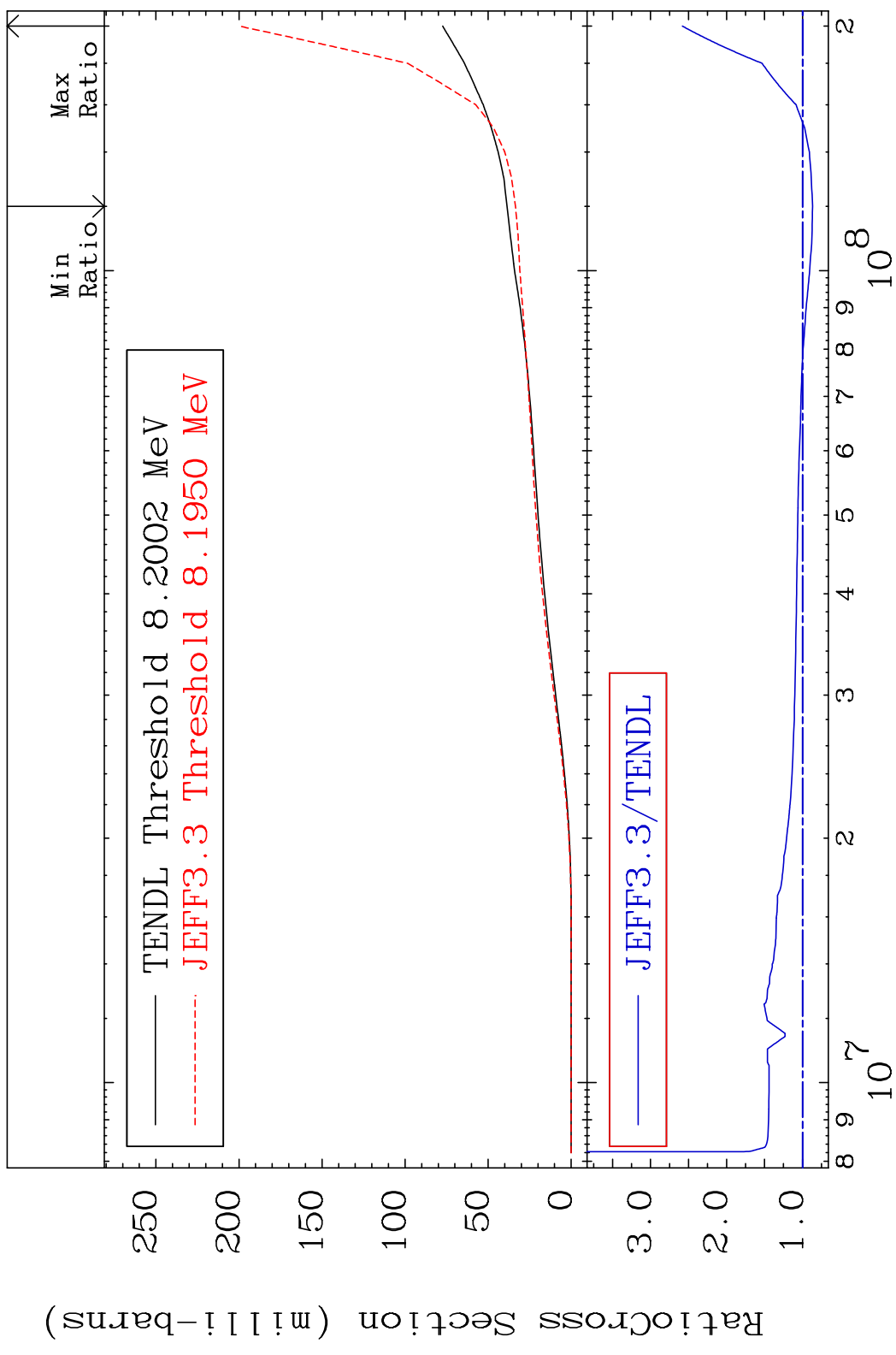
60-Nd-142

MAT 6025

Tritium Production

60-Nd-142

Cross Section -13.23 To 158.1 %



50

Incident Energy (eV)

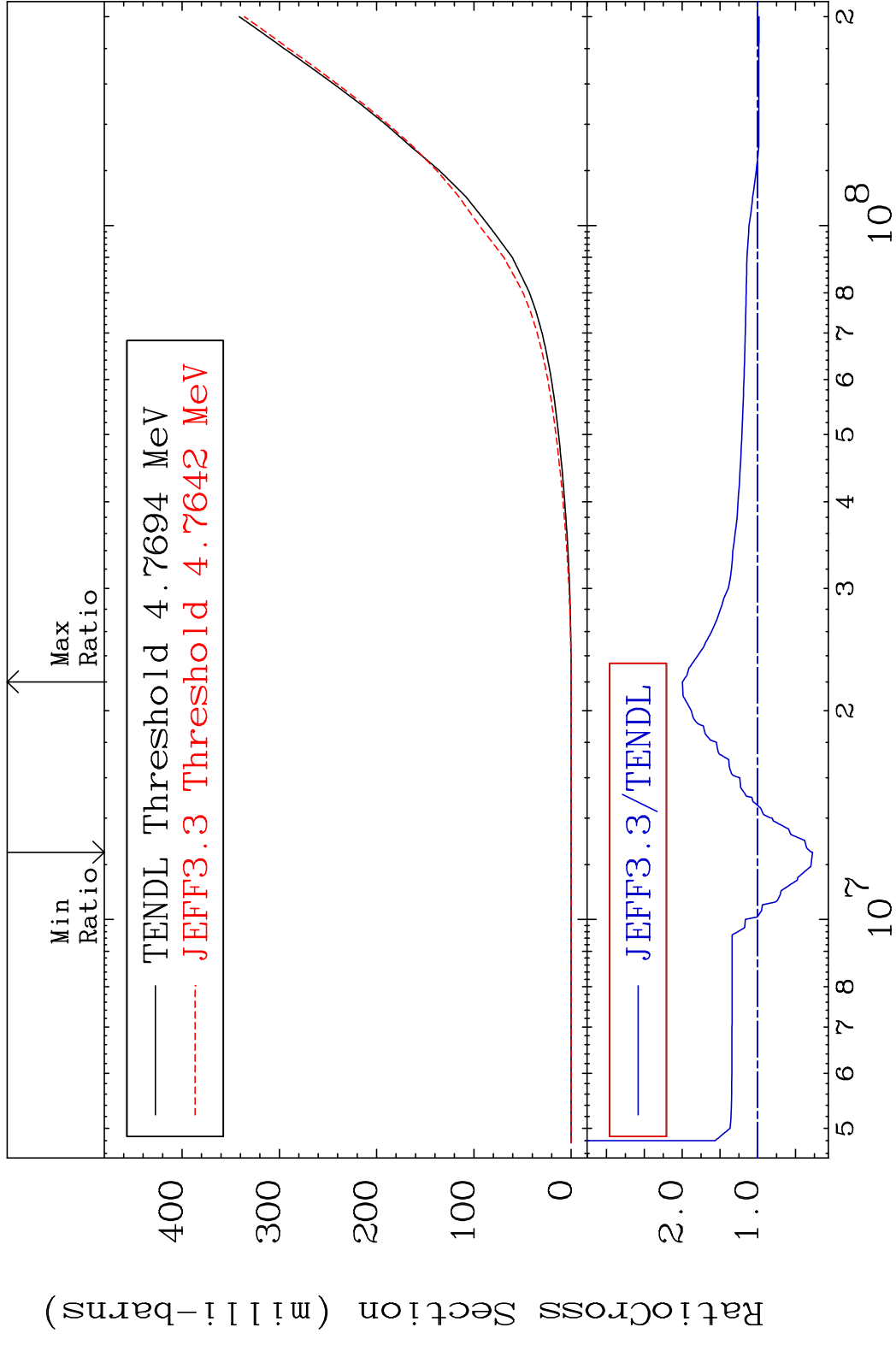
60-Nd-142

MAT 6025

He-3 Production

60-Nd-142

Cross Section -72.46 To 99.66 %

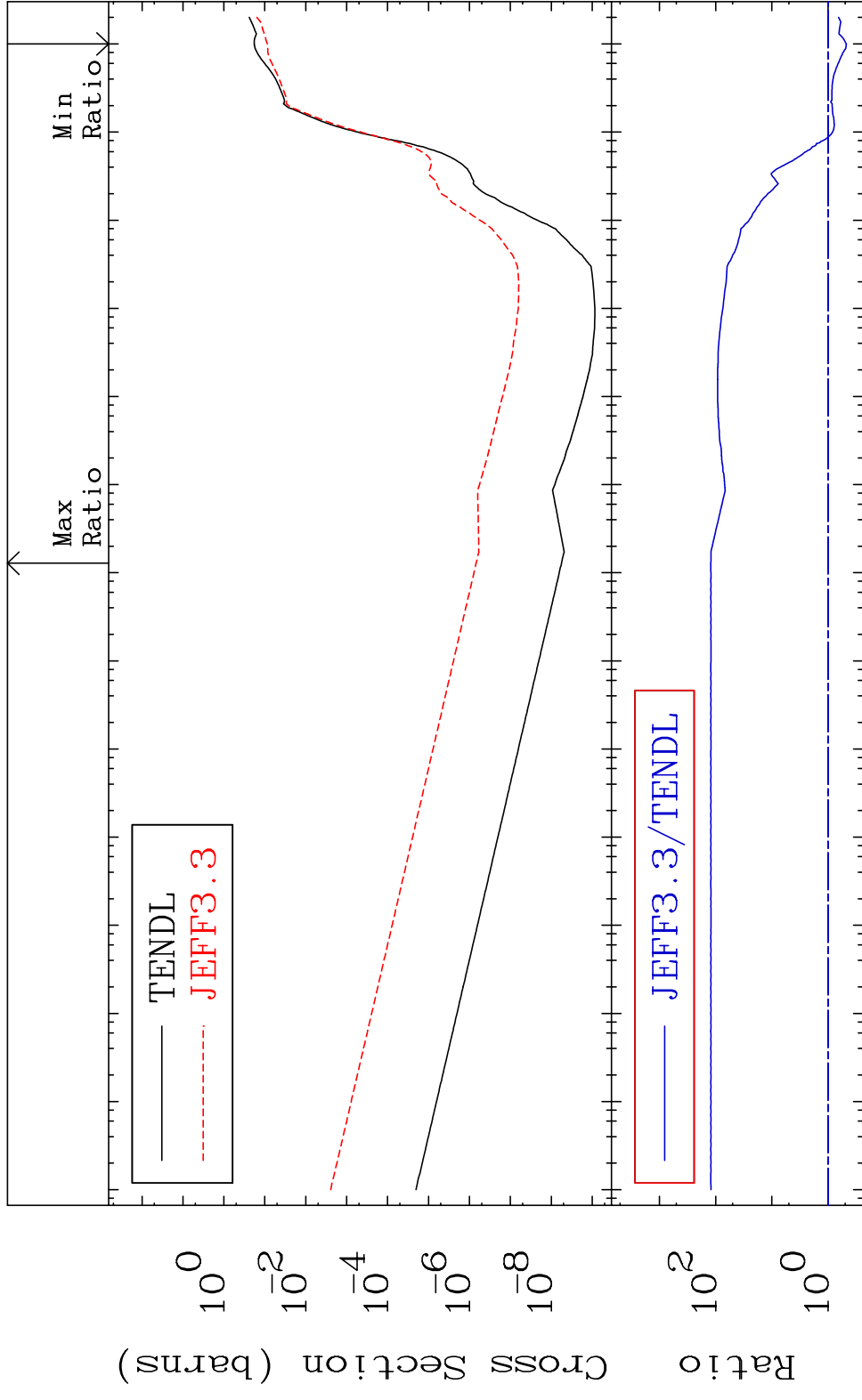


MAT 6025

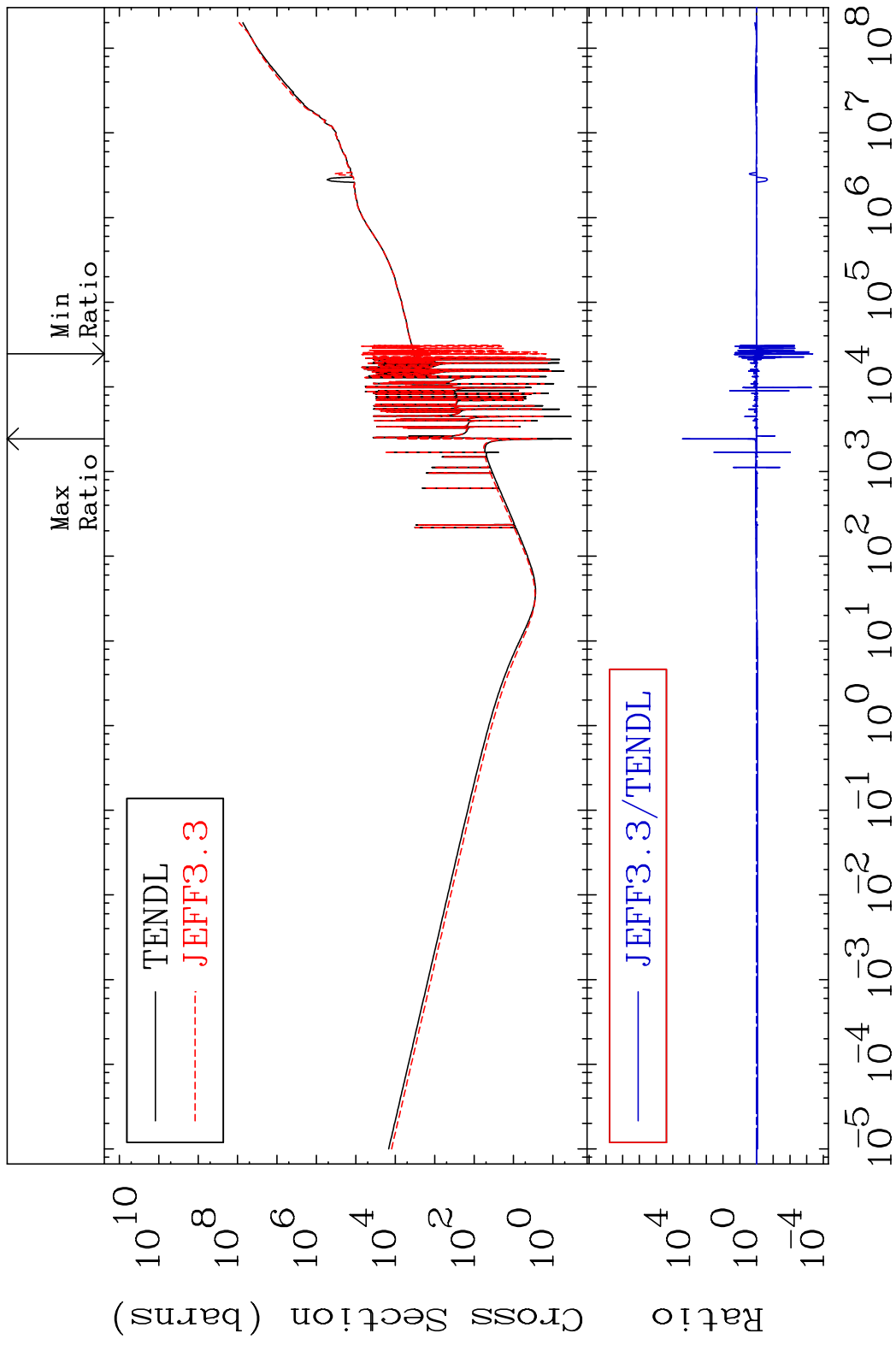
He-4 Production

60-Nd-142

Cross Section -52.48 To 9999. %



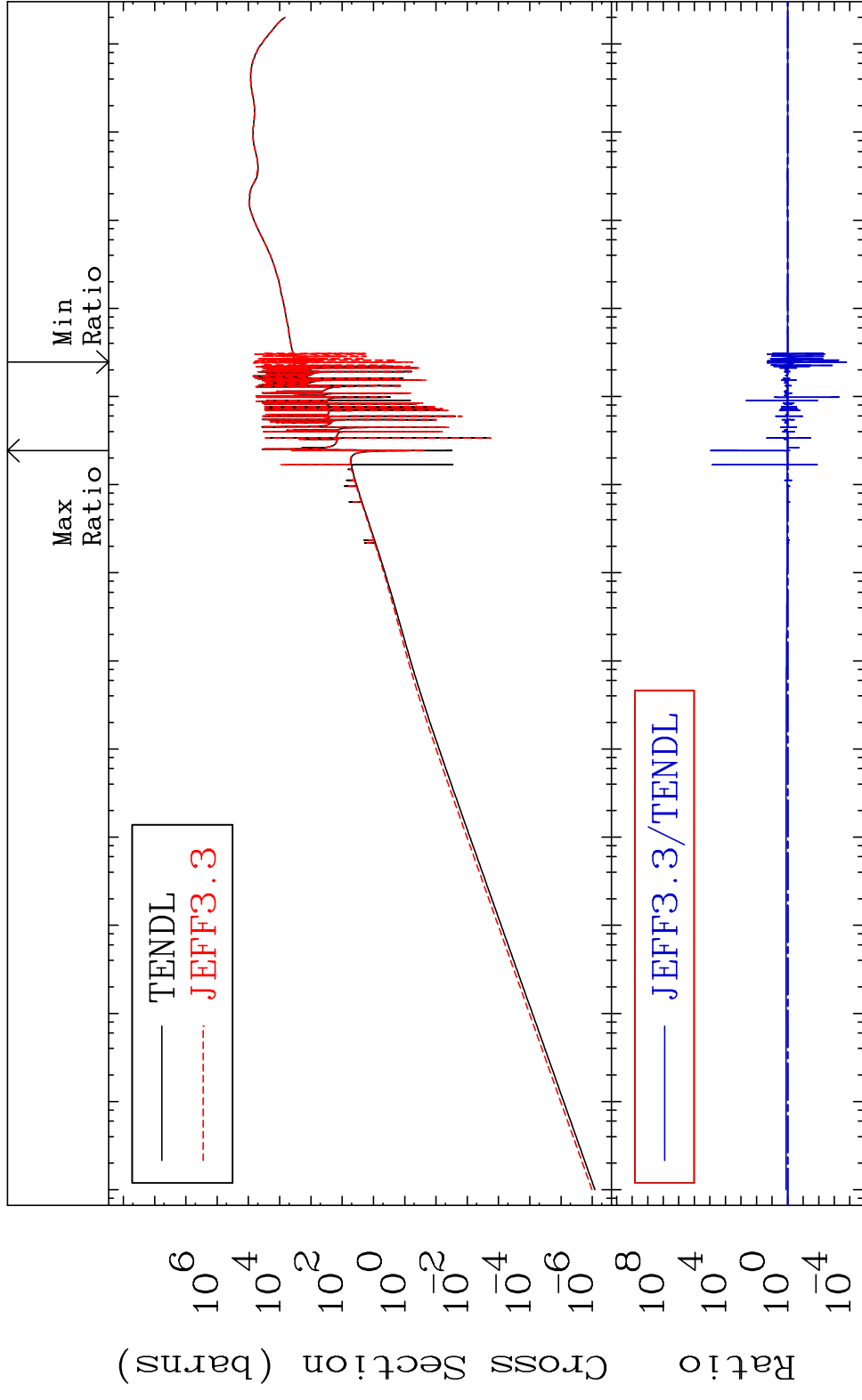
MAT 6025 Kerma total (eV-barns) 60-Nd-142
 Cross Section -99.96 To 9999. %



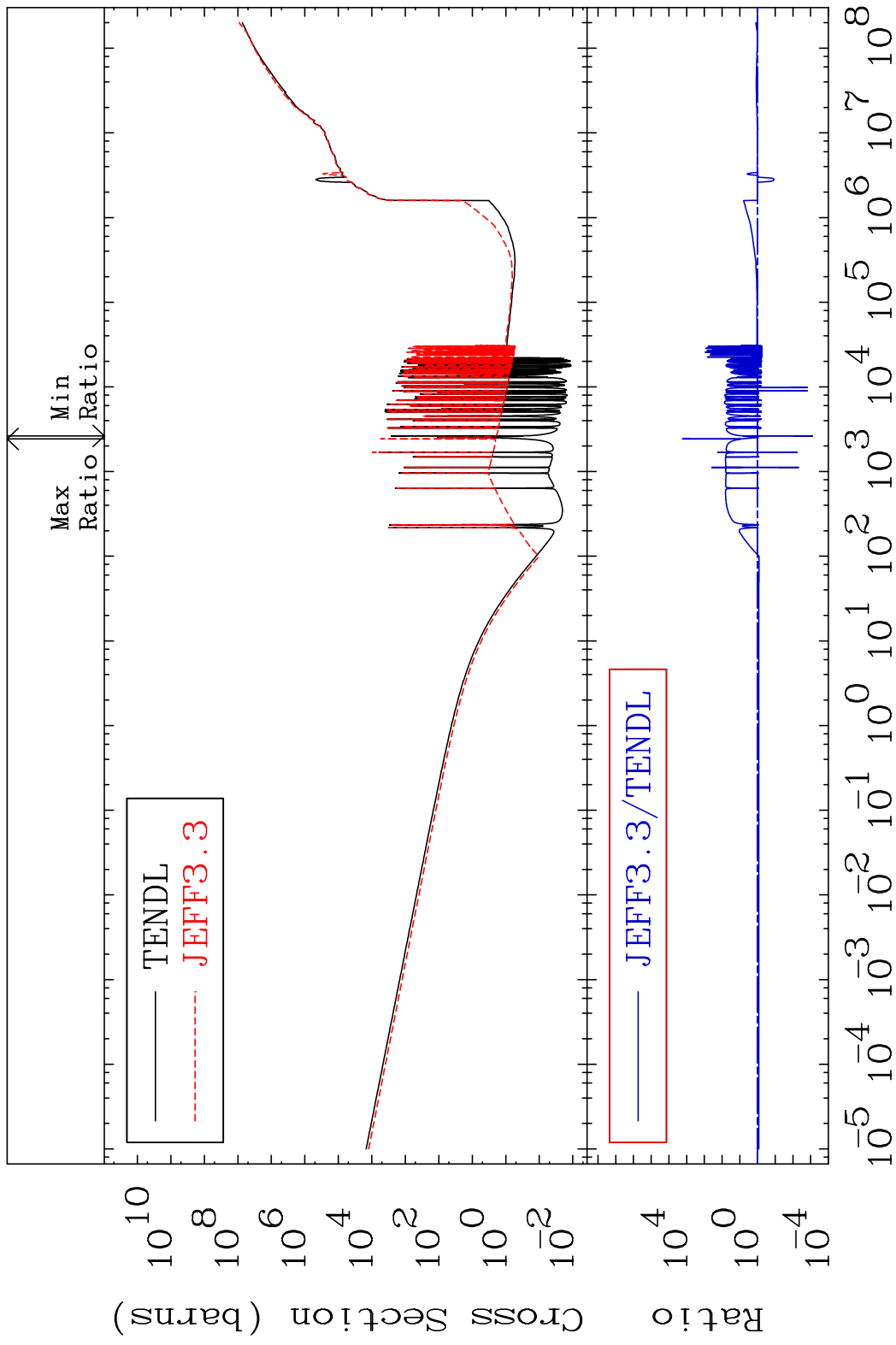
MAT 6025

Kerma elastic
Cross Section

60-Nd-142
-99.98 To 9999. %

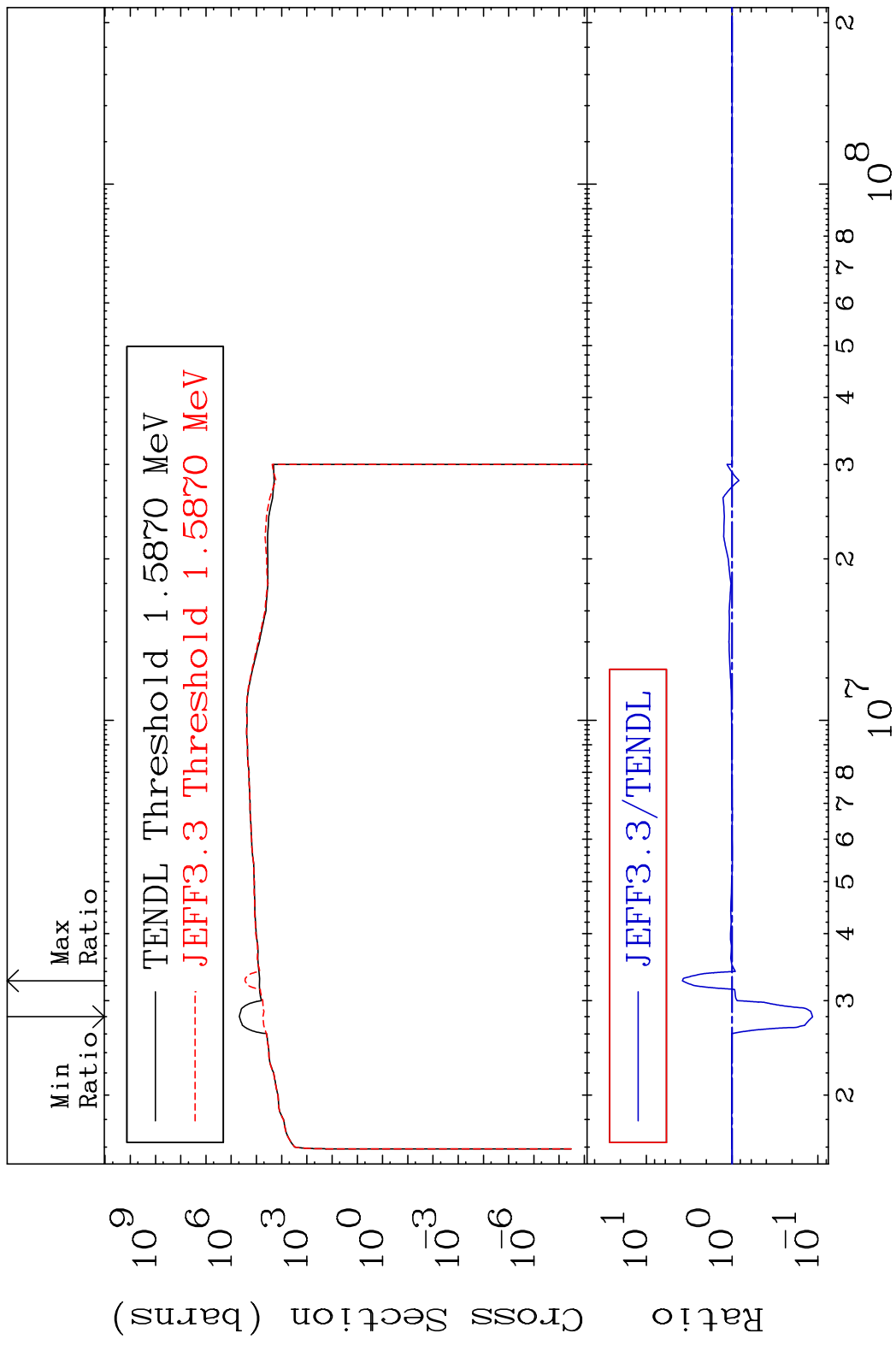


MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142
 Cross Section -99.92 To 9999. %

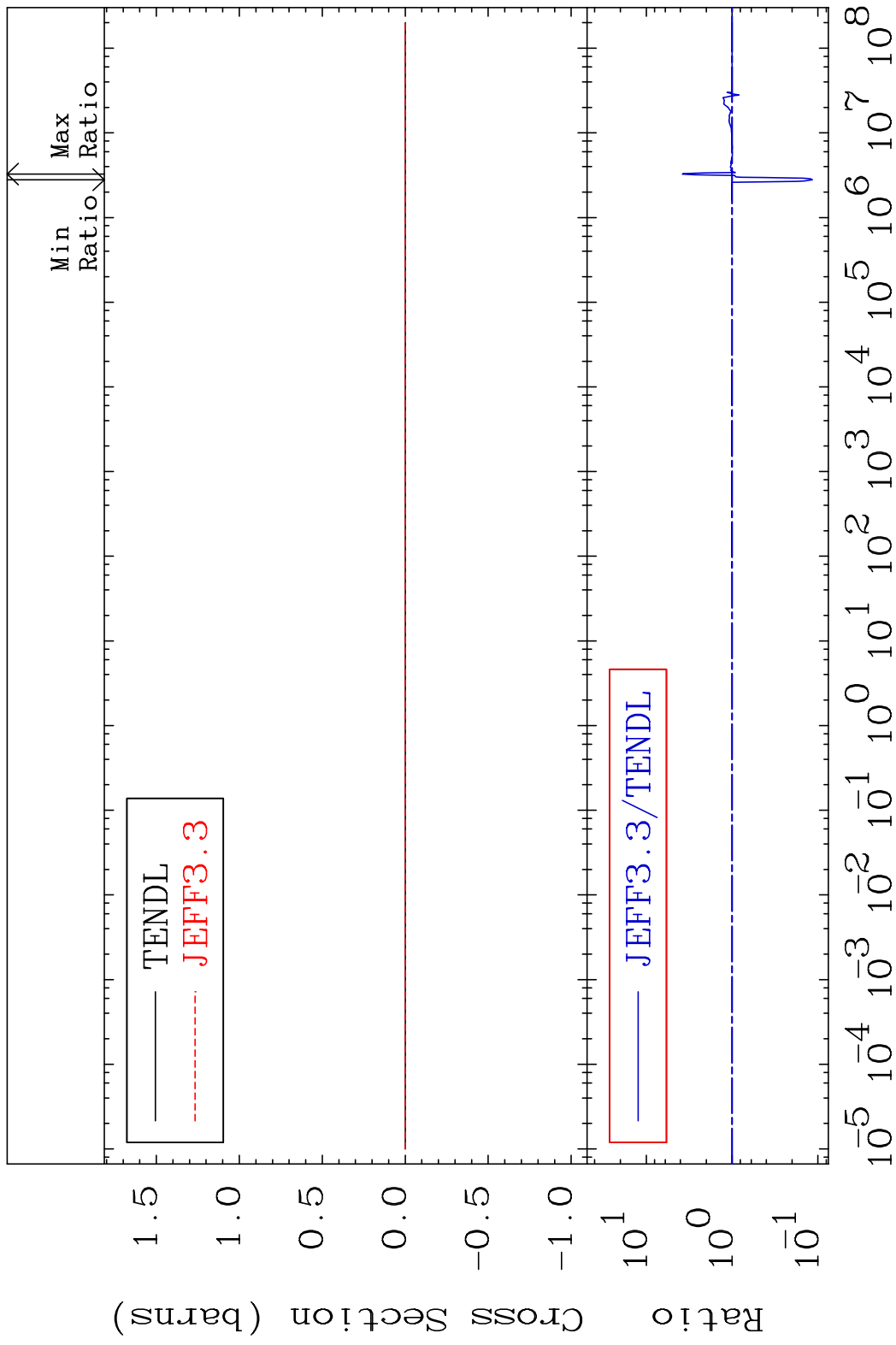


55 Incident Energy (eV) 60-Nd-142

MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142
 Cross Section -88.44 To 279.7 %

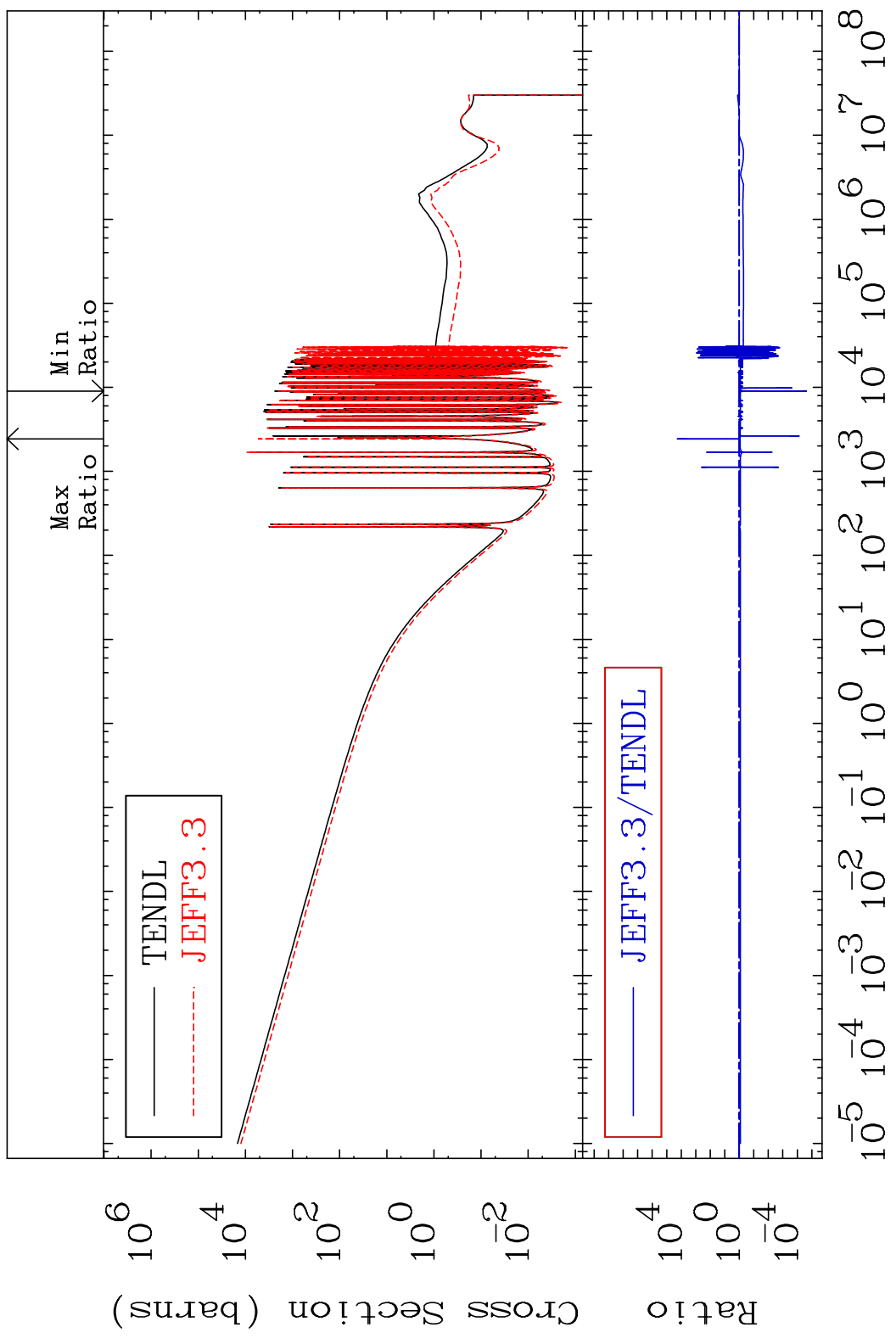


MAT 6025 Kerma fission (mt18 or mt19-20-21-38) ⁶⁰Nd-142
 Cross Section -88.44 To 279.7 %

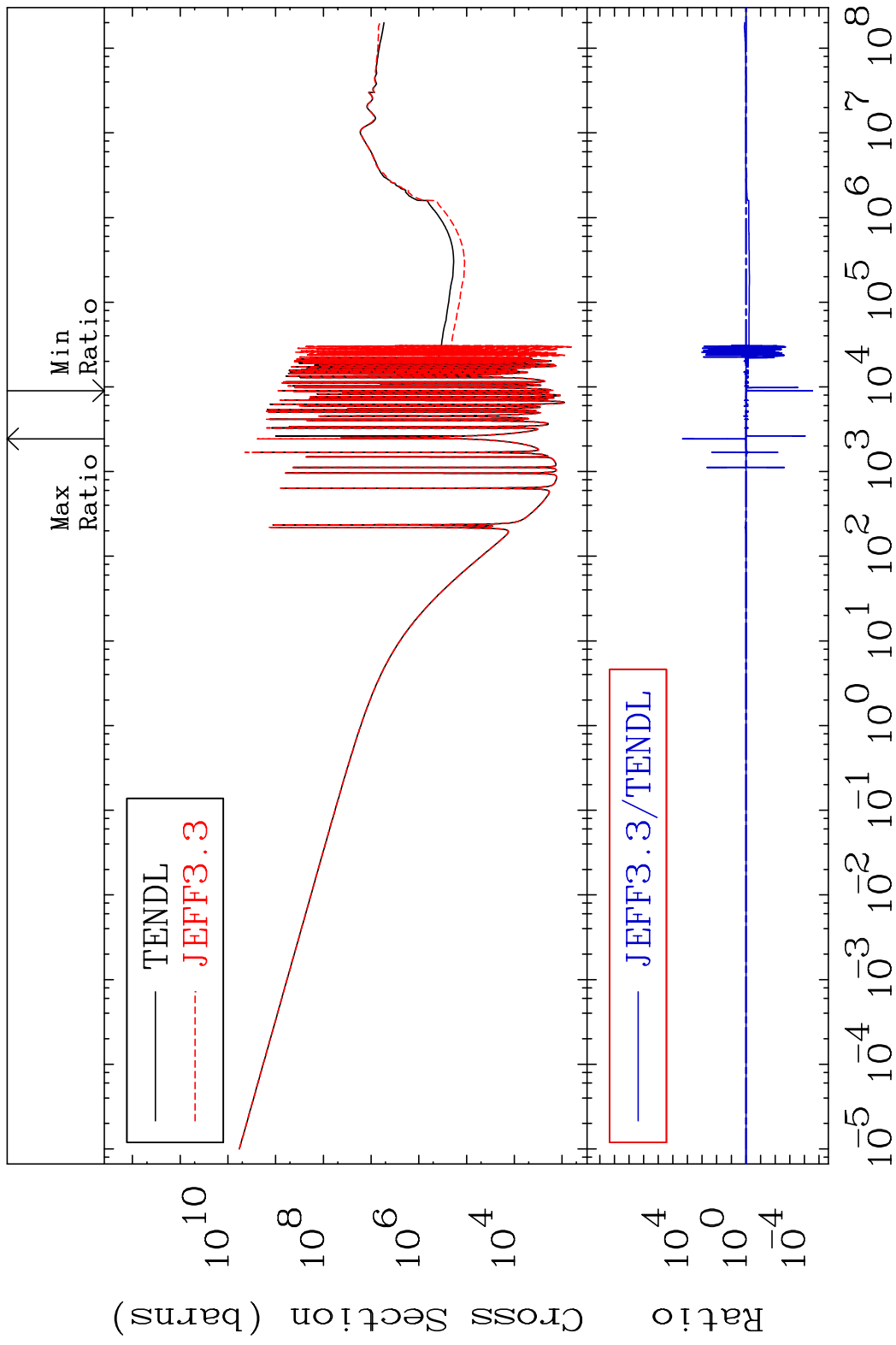


MAT 6025

Kerma capture (mt102) 60-Nd-142
Cross Section -100.0 To 9999. %

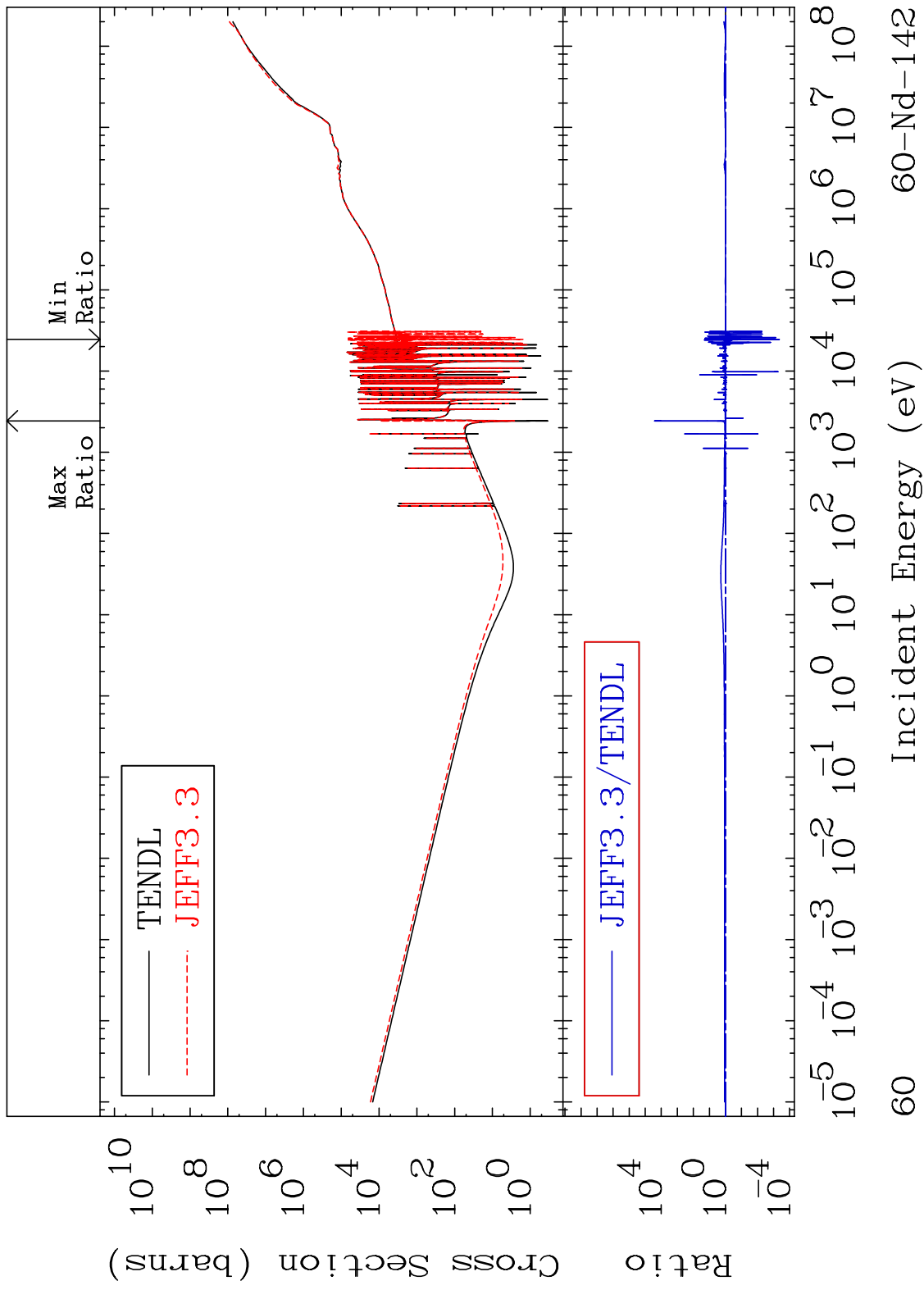


MAT 6025 Total photon (eV-barns) 60-Nd-142
 Cross Section -100.0 To 9999. %



59 Incident Energy (eV) 60-Nd-142

MAT 6025 Total kinematic kerma (high limit) 60-Nd-142
Cross Section -99.96 To 9999. %

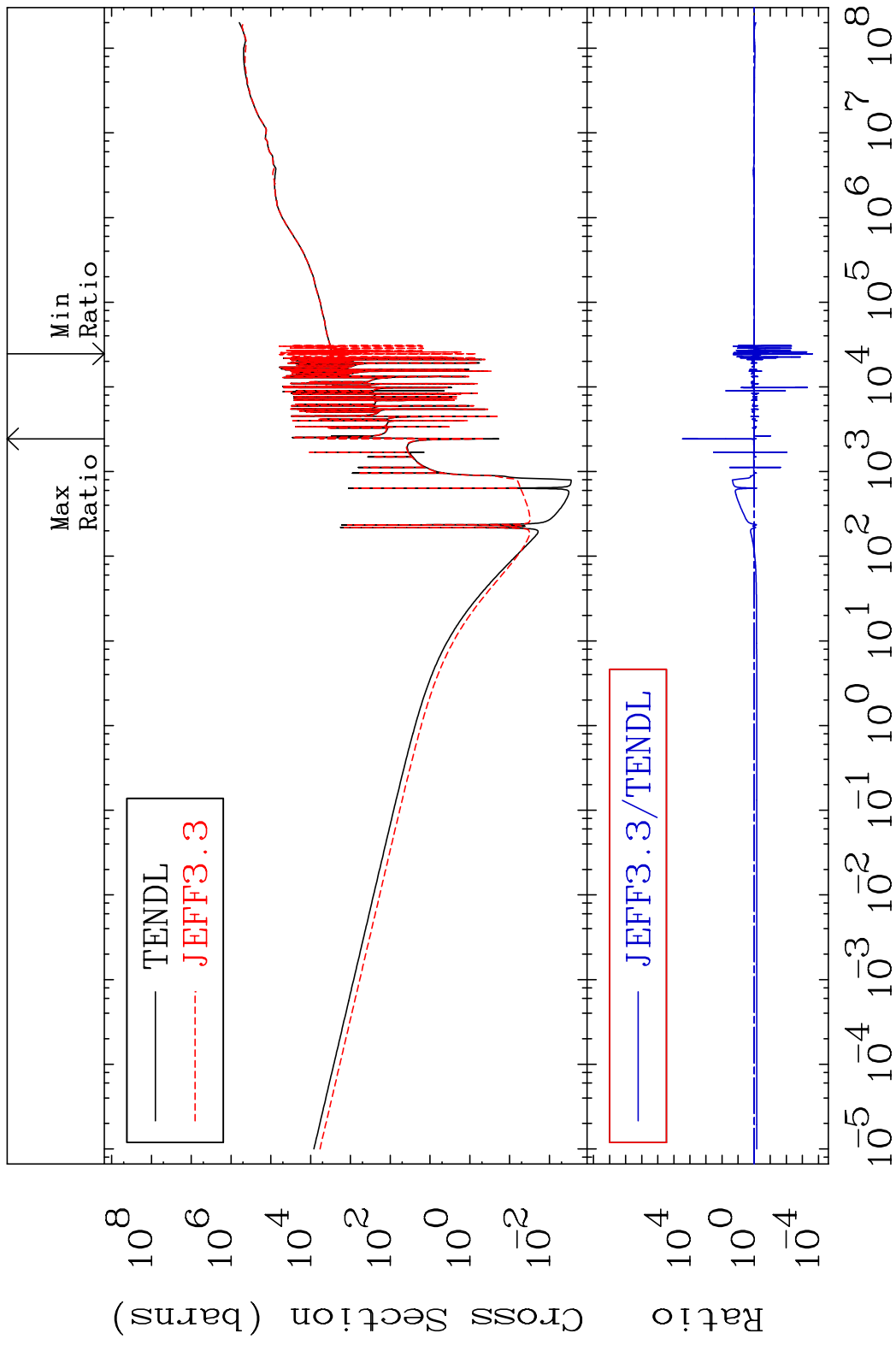


60

Incident Energy (eV)

60-Nd-142

MAT 6025 Dpa total (eV-barns) 60-Nd-142
 Cross Section -99.98 To 9999. %

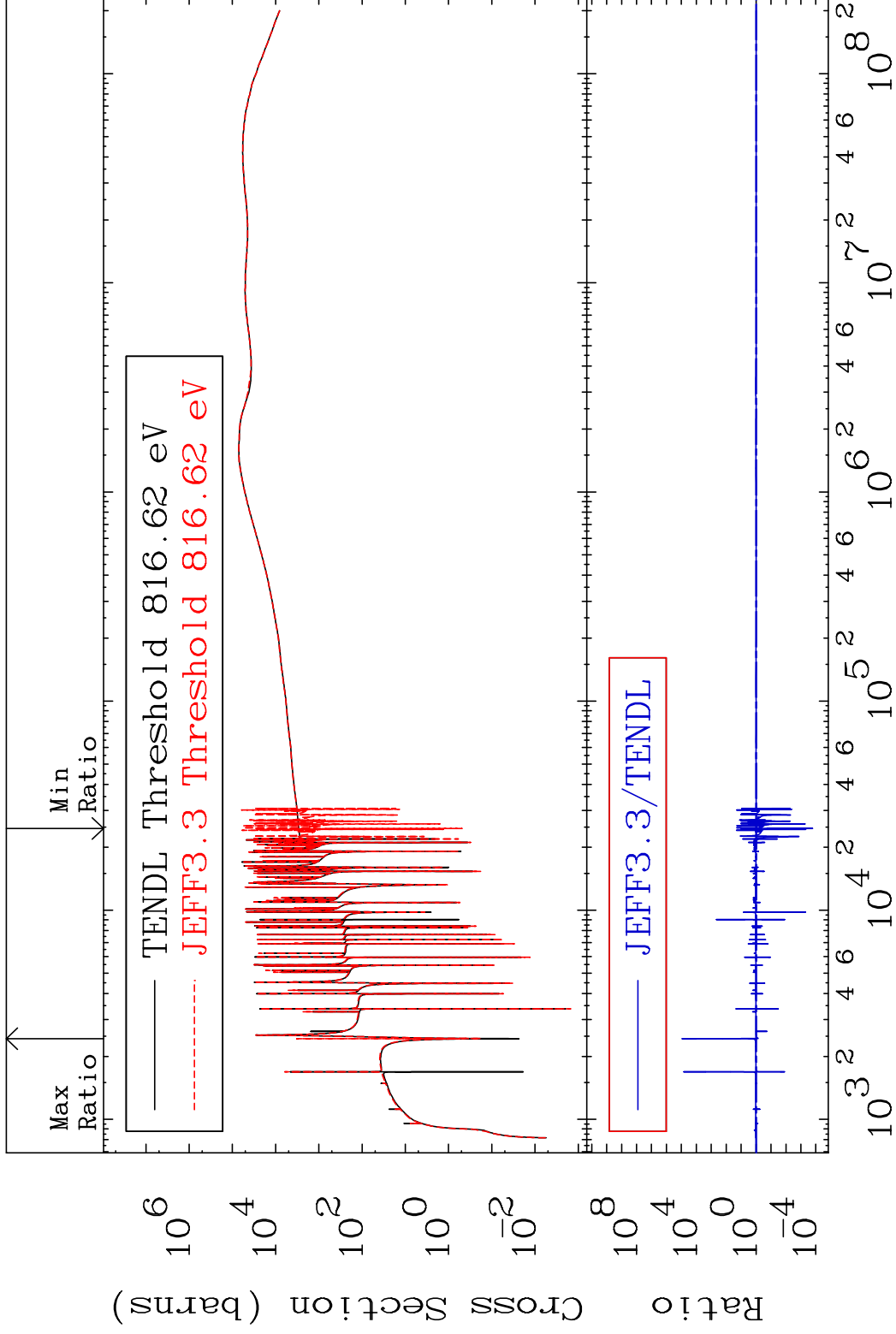


MAT 6025

Dpa elastic (mt2)

60-Nd-142

Cross Section -99.98 To 9999. %

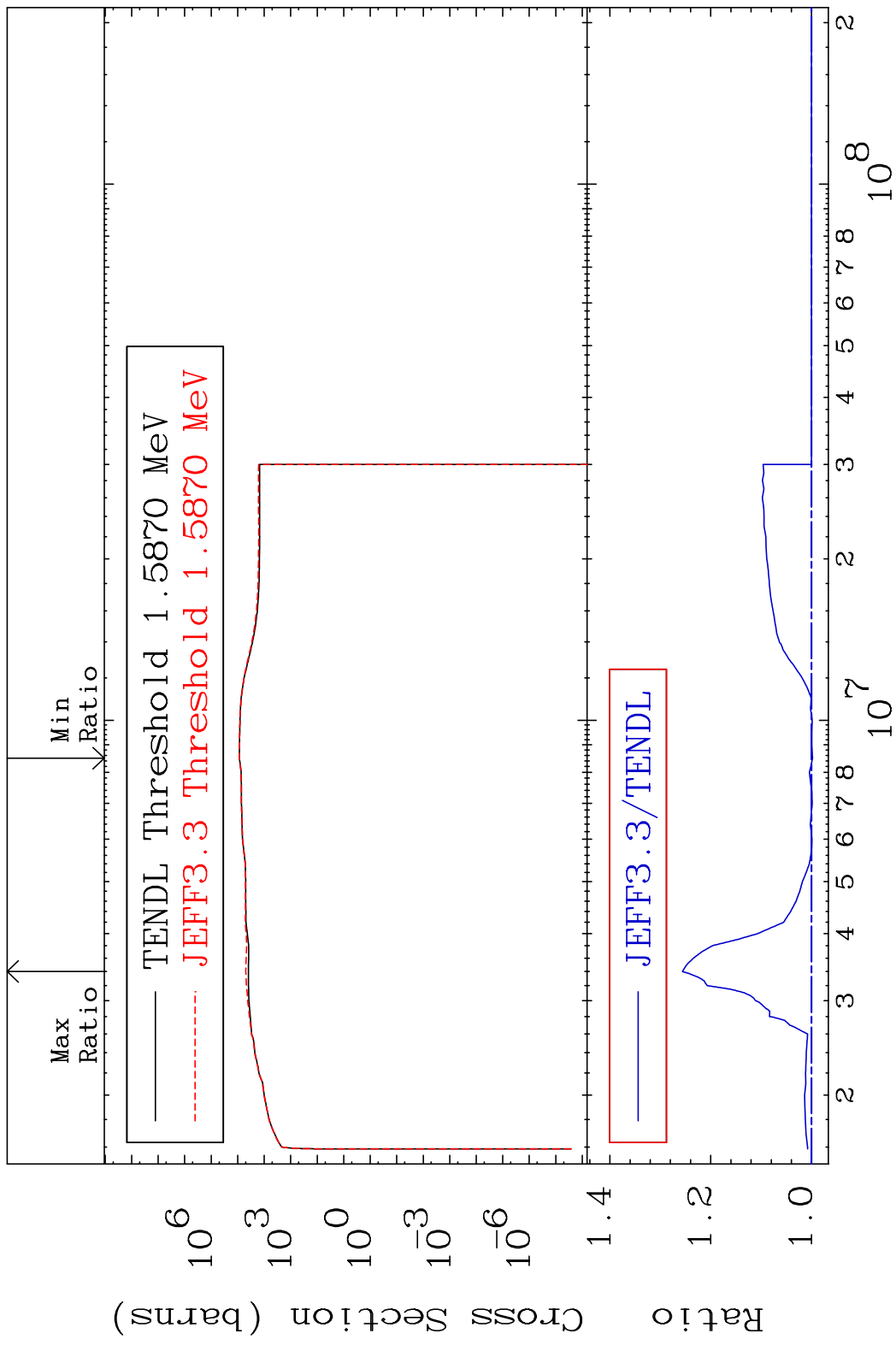


62

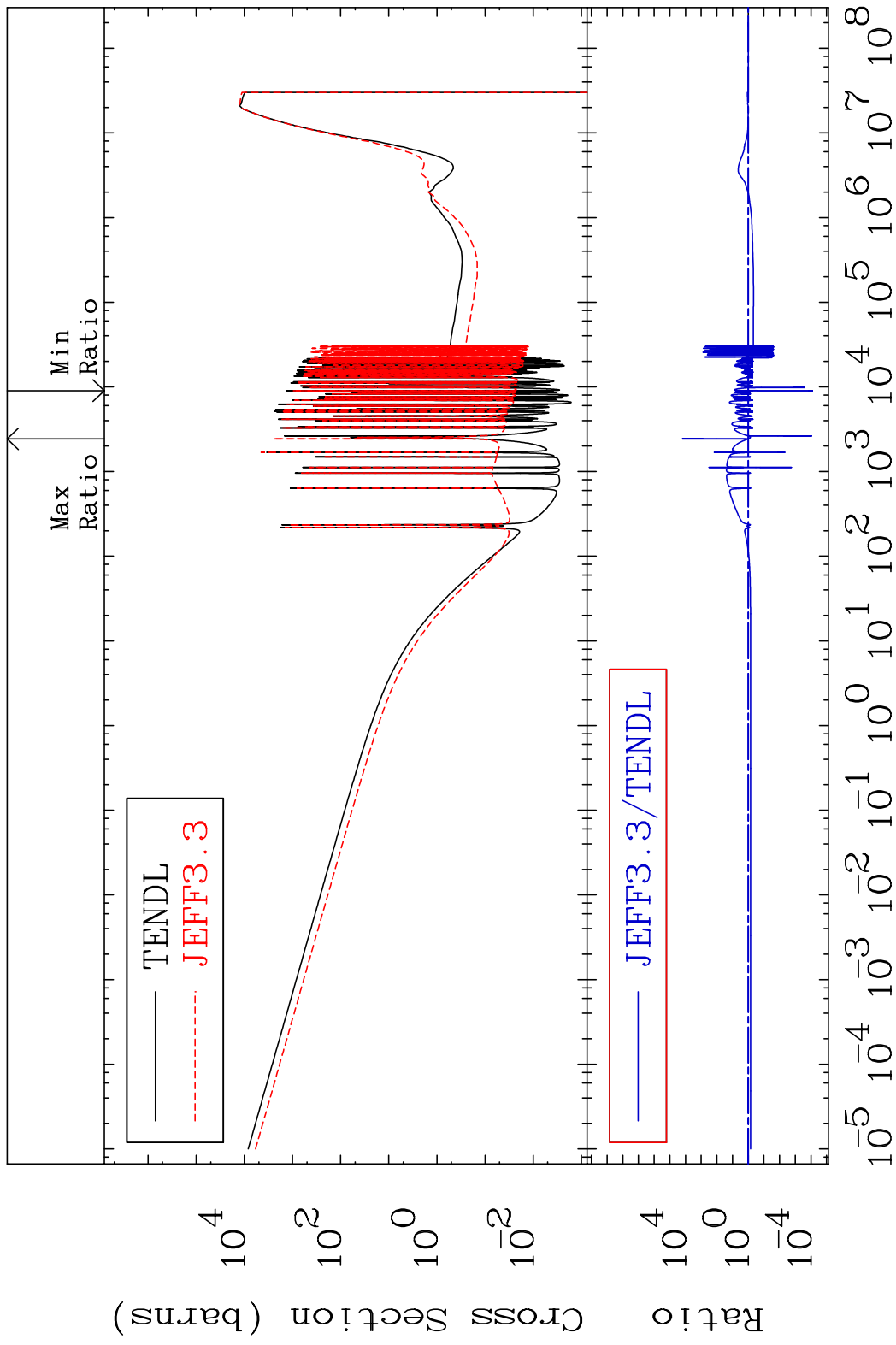
Incident Energy (eV)

60-Nd-142

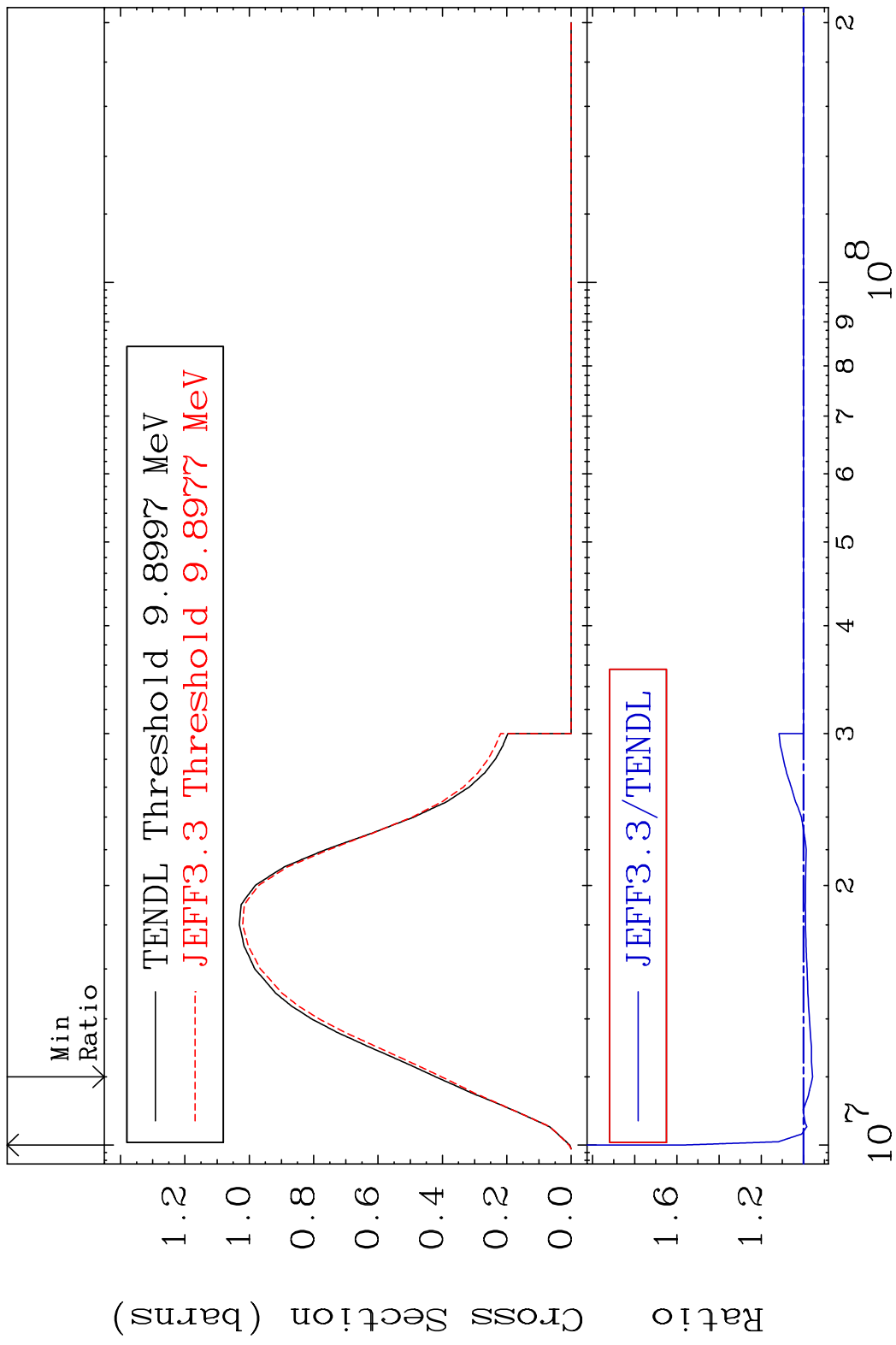
MAT 6025 Dpa inelastic (mt51-91) 60-Nd-142
 Cross Section -0.197 To 25.63 %



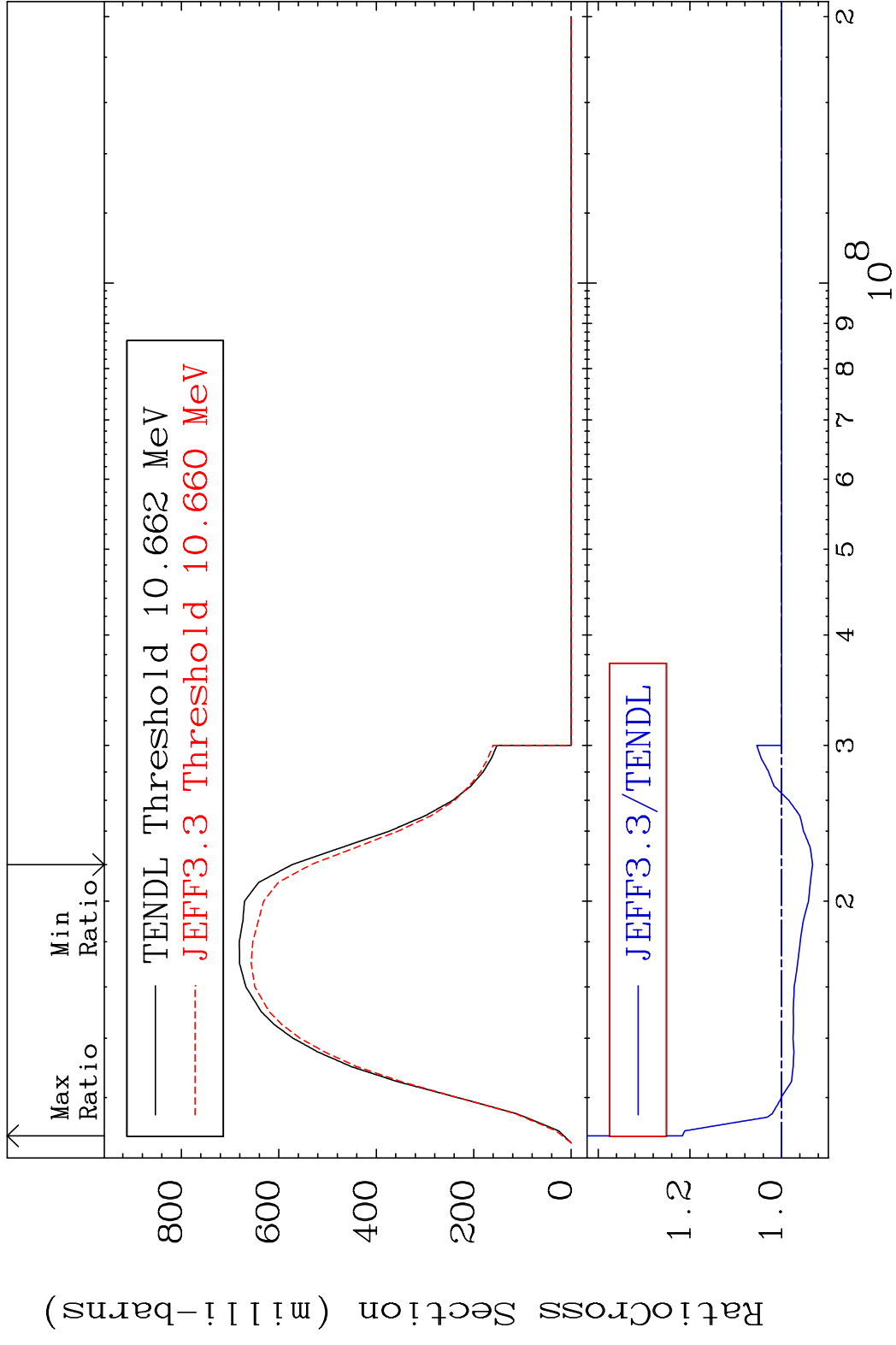
MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142
 Cross Section -99.99 To 9999. %

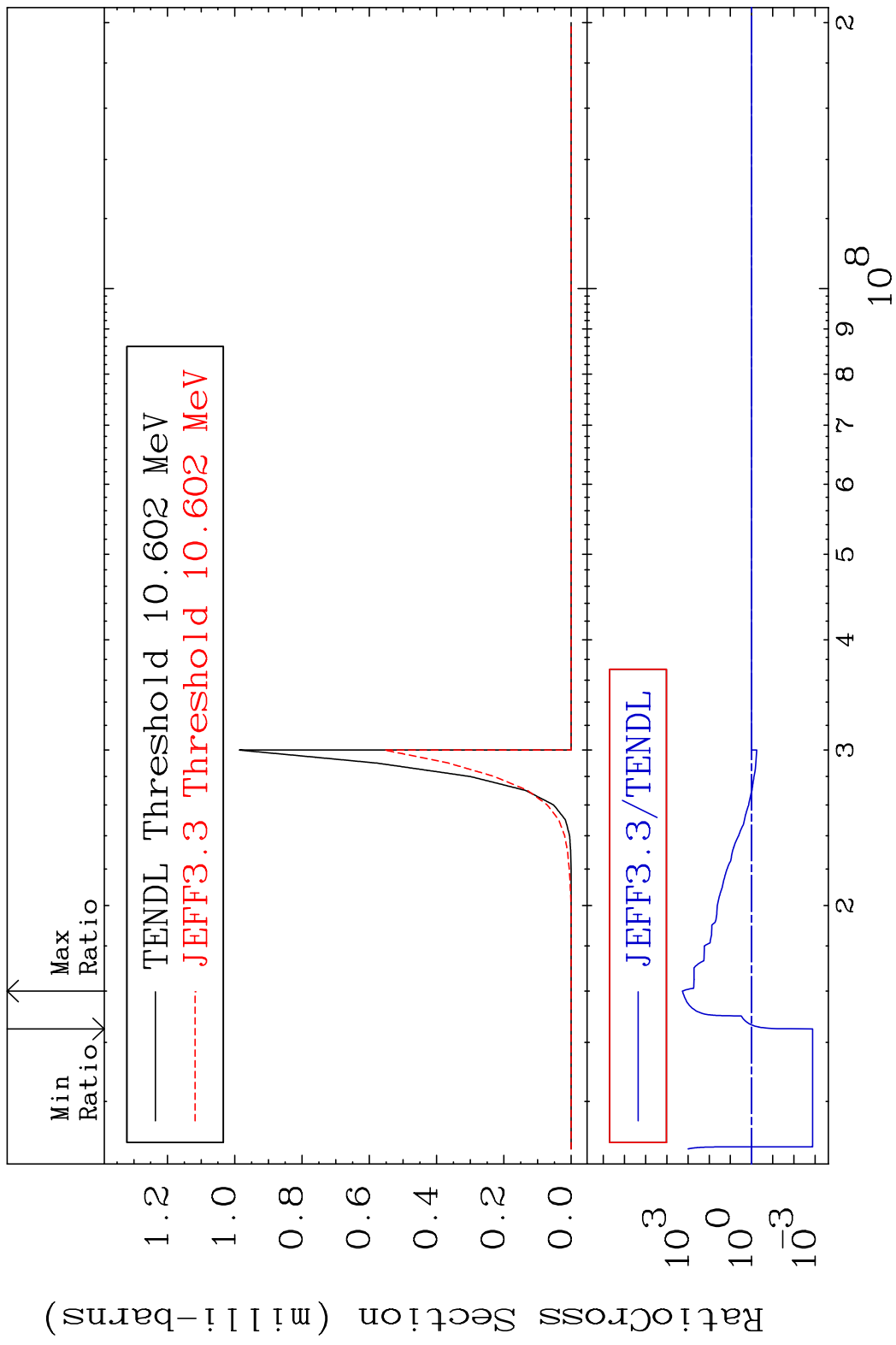


MAT 6025 (n,2n):60-Nd-141g 60-Nd-142
 Radionuclide Production Cross Section 57.41 %

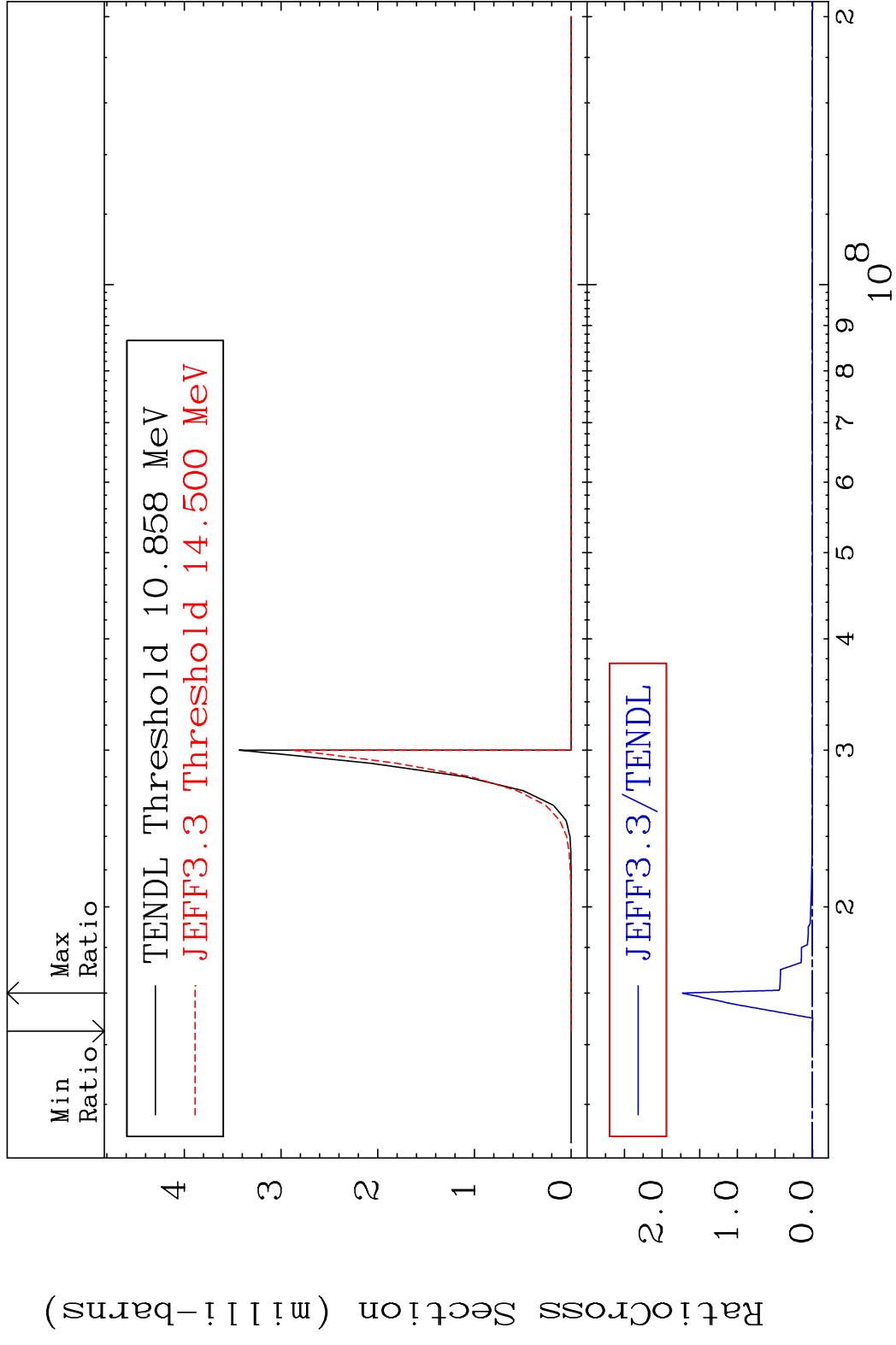


MAT 6025 (n,2n):60-Nd-141m2 60-Nd-142
 Radionuclide Production Cross Section 21.65 %

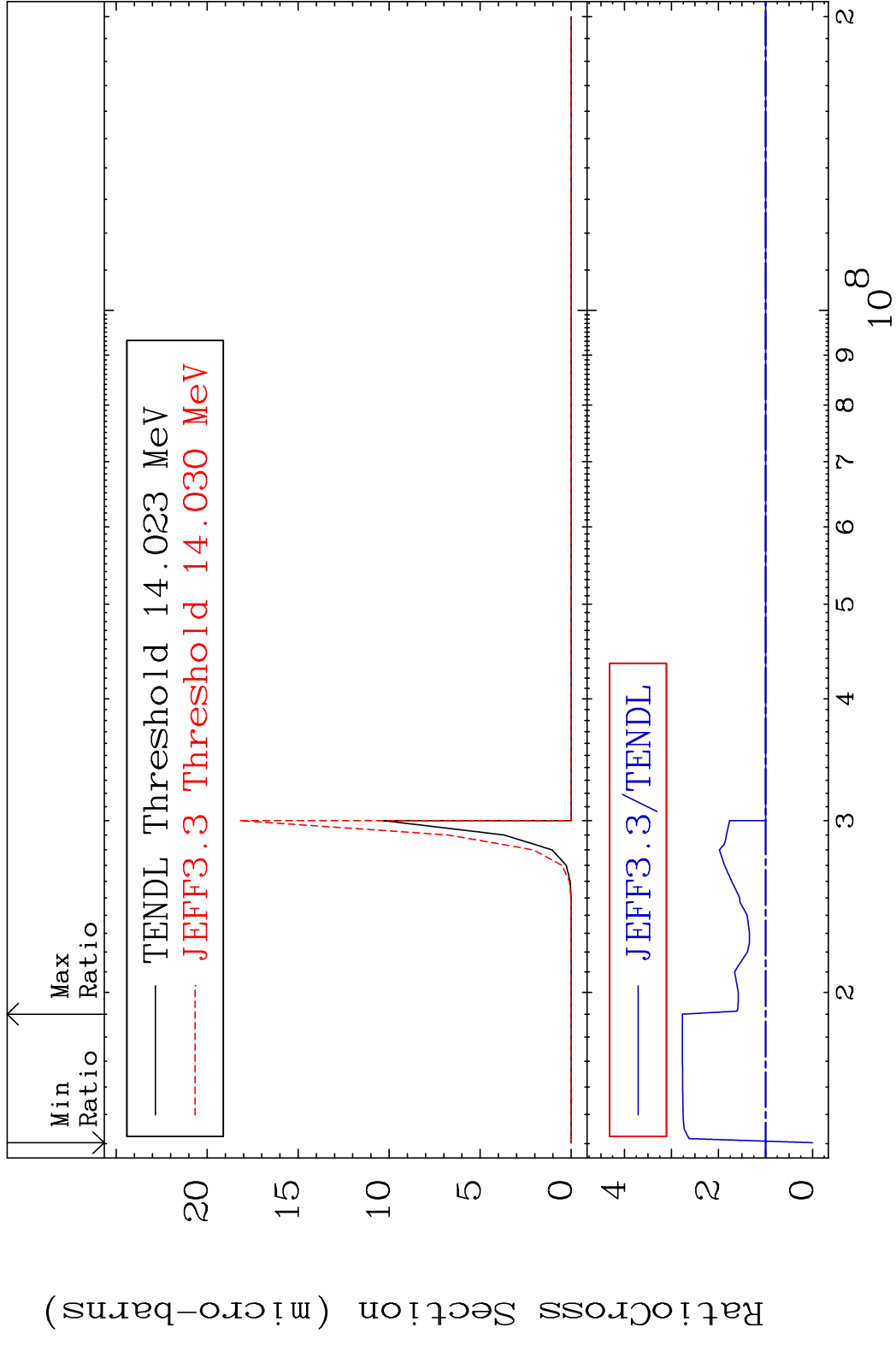




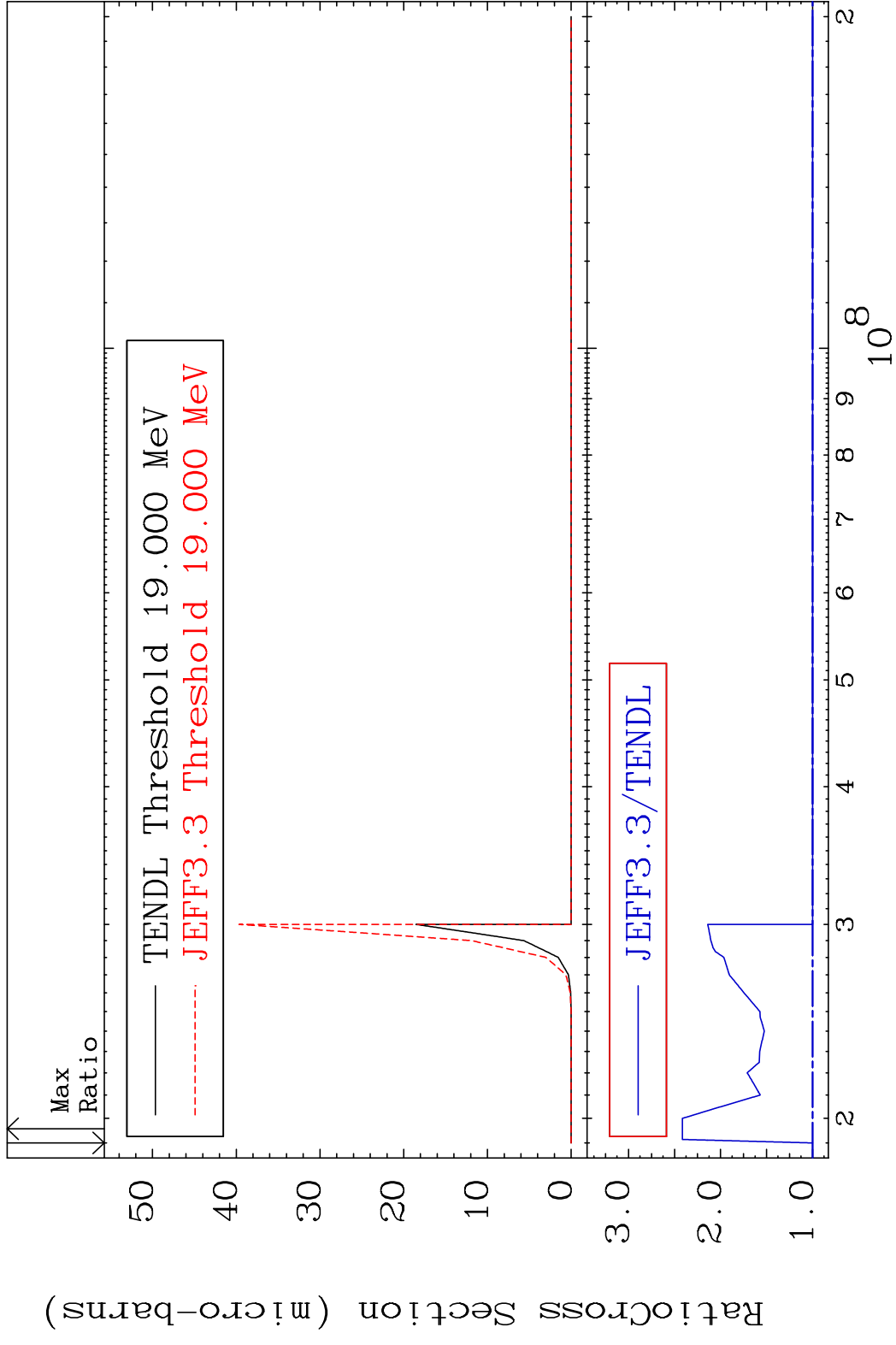
MAT 6025 (n,2n) α :58-Ce-137m2 60-Nd-142
 Radionuclide Production Cross Section to 9999. %



MAT 6025 (n, n') He-3:58-Ce-139g 60-Nd-142
 Radionuclide Production Cross Section 180.0 mb 176.9 %

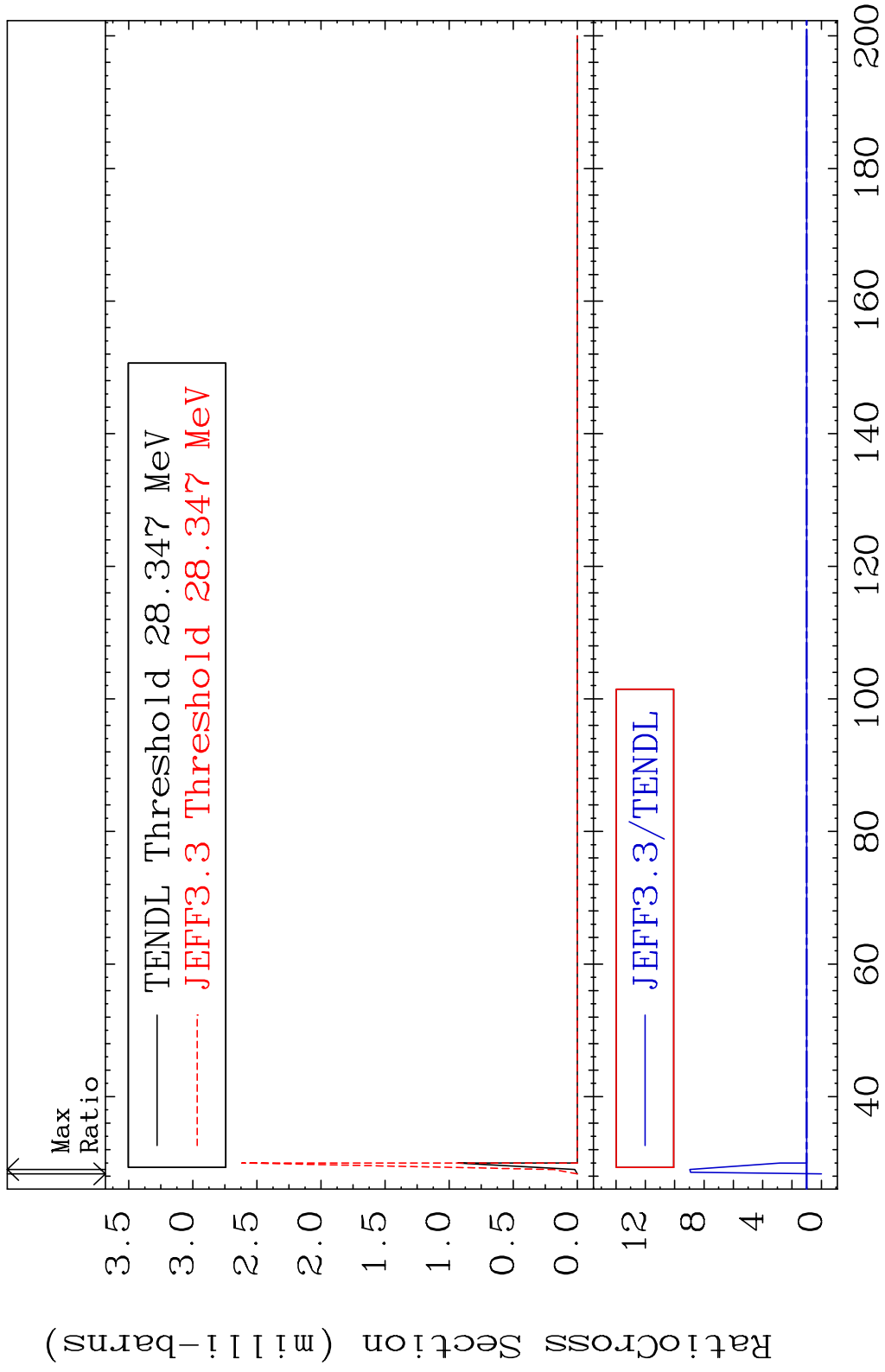


MAT 6025 (n, n') He-3:58-Ce-139m2 60-Nd-142
 Radionuclide Production Cross Section 141.5 %

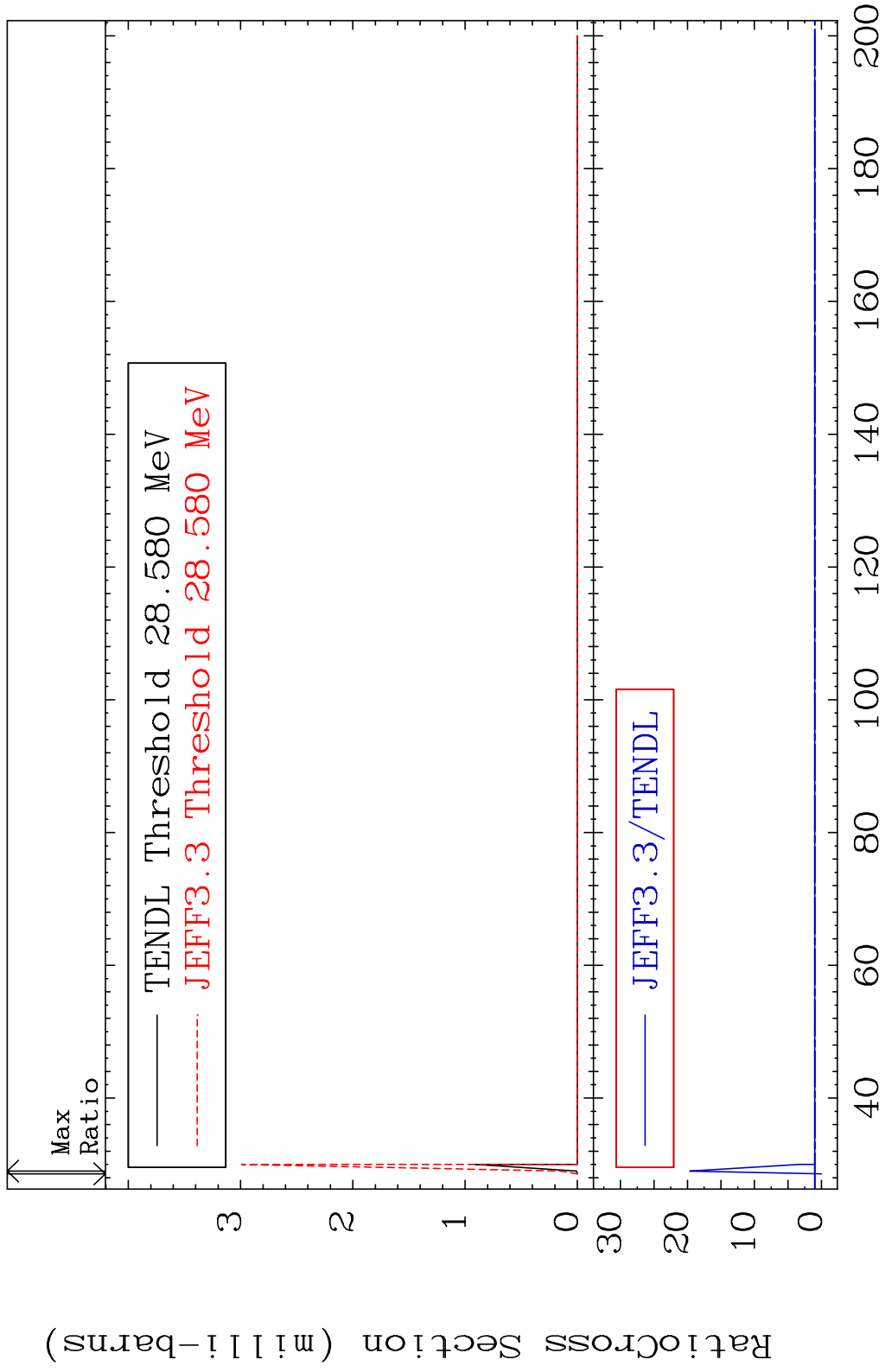


70 Incident Energy (eV) 60-Nd-142

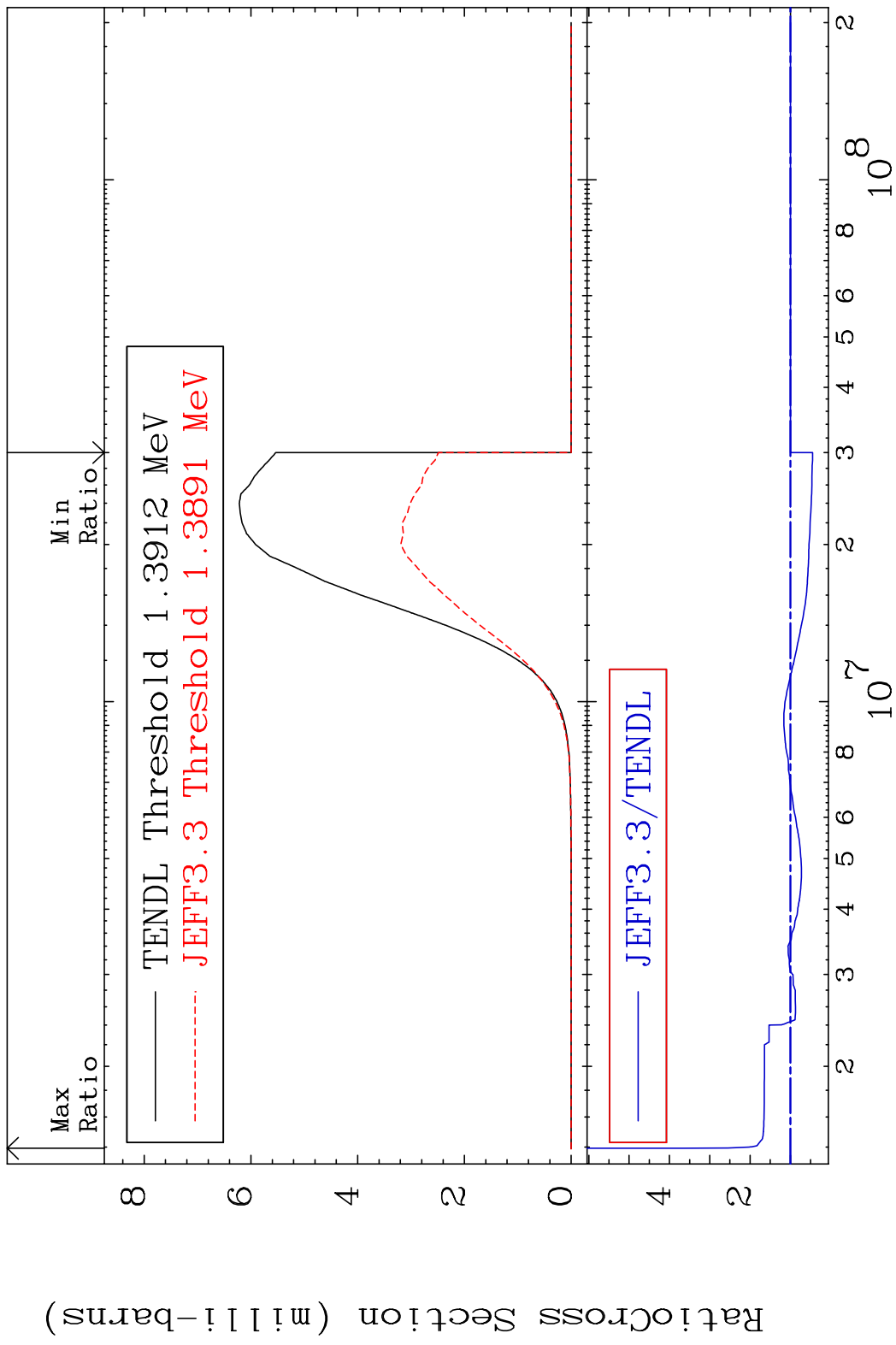
MAT 6025 (n,4n):60-Nd-139g 60-Nd-142
 Radionuclide Production Cross Section 180.01 dth 796.9 %



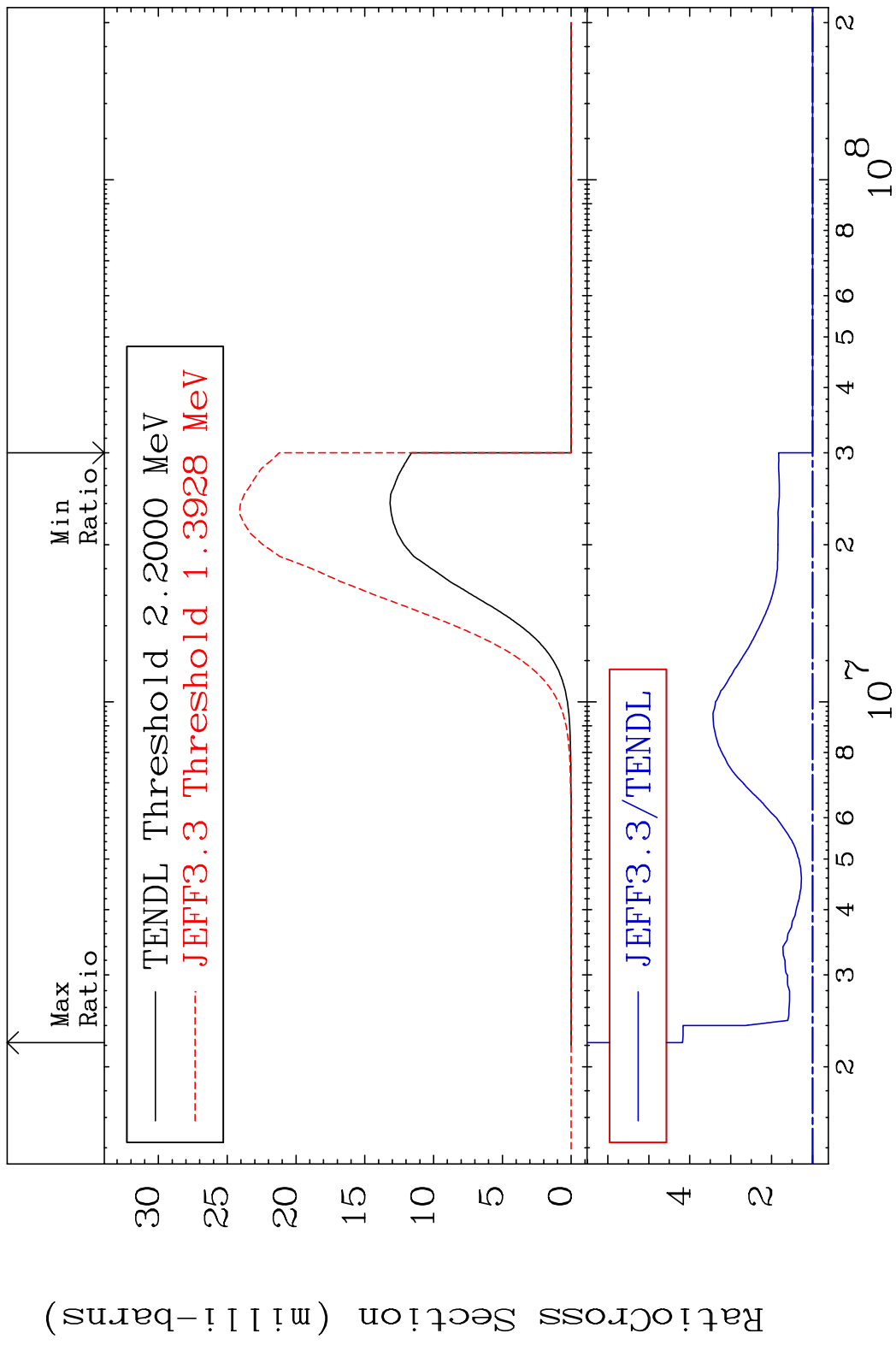
MAT 6025 (n, 4n):60-Nd-139m2 60-Nd-142
 Radionuclide Production Cross Section 1866.0 dth 1866. %



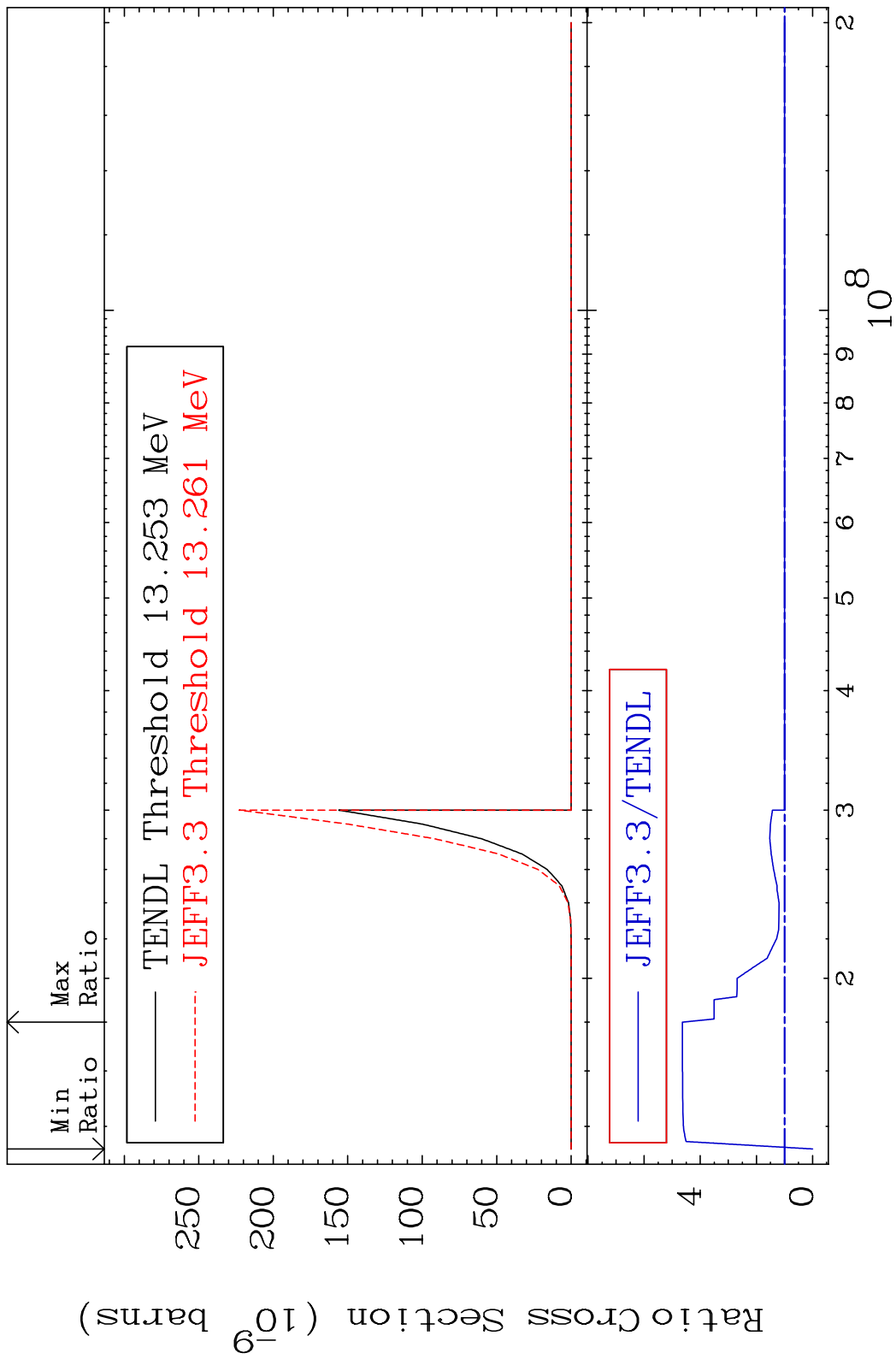
MAT 6025 (n,p):59-Pr-142g 60-Nd-142
 Radionuclide Production Cross Section 55e02d10 267.9 %



MAT 6025 (n, p):59-Pr-142m1 60-Nd-142
 Radionuclide Production Cross Section 318.0 %



MAT 6025 (n,p) t:58-Ce-139g 60-Nd-142
 Radionuclide Production Cross Section 180.01 dth 363.8 %



MAT 6025 (n, p) t:58-Ce-139m2 60-Nd-142
 Radionuclide Production Cross Section 300.500 eido 313.1 %

