

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

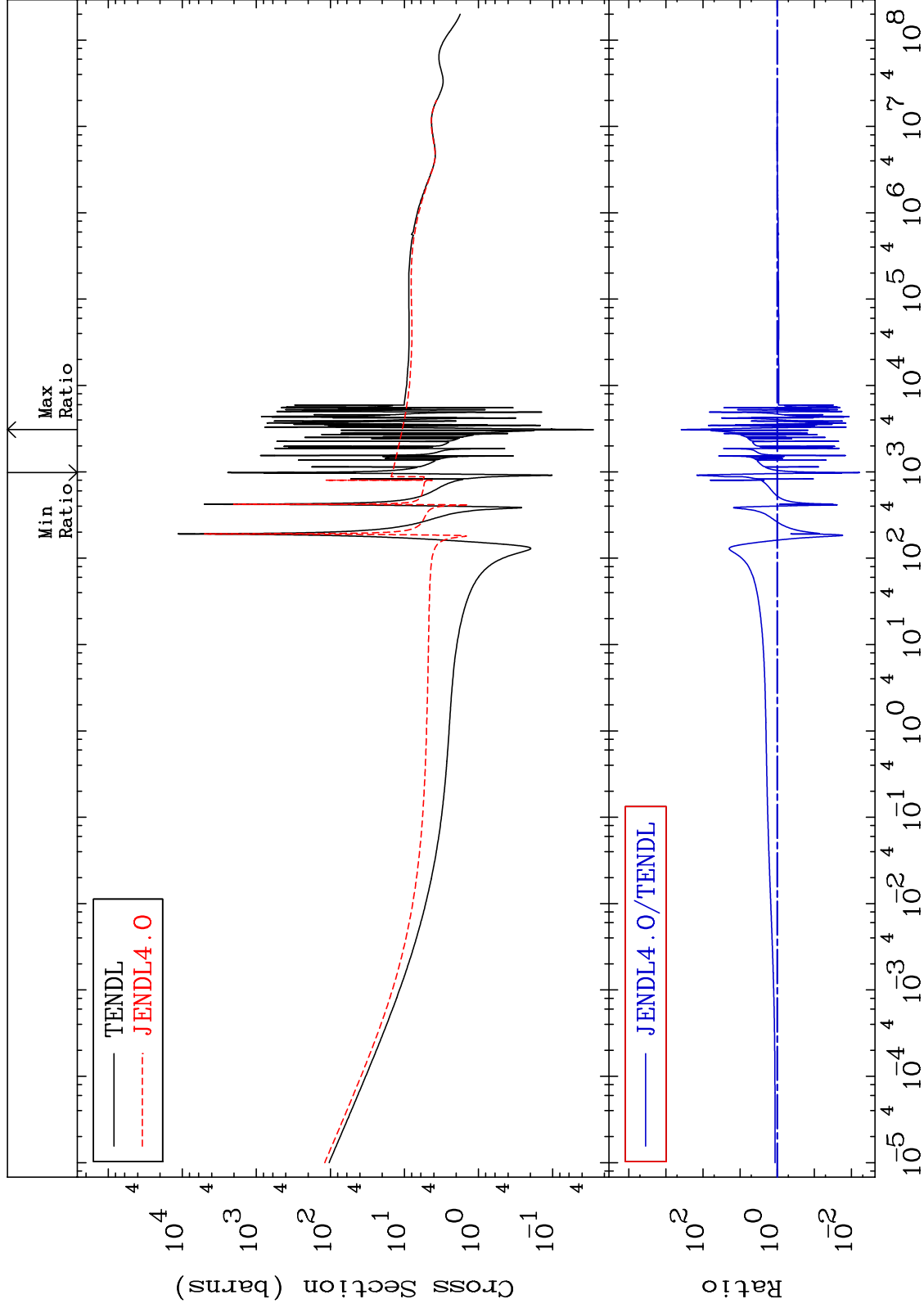
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4625

Total
Cross Section

46-Pd-102
-99.40 To 9999. %

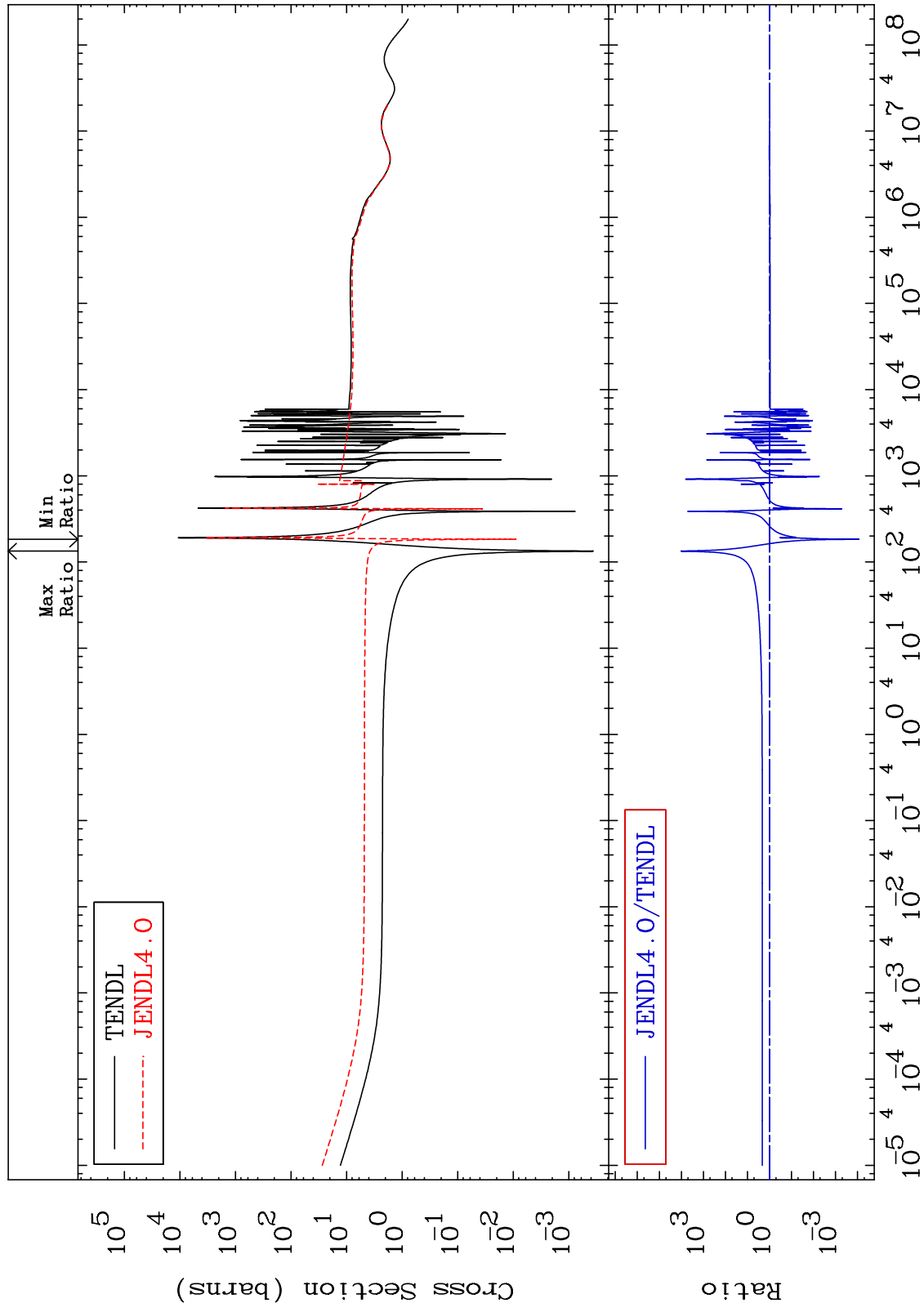


1

Incident Energy (eV)

46-Pd-102

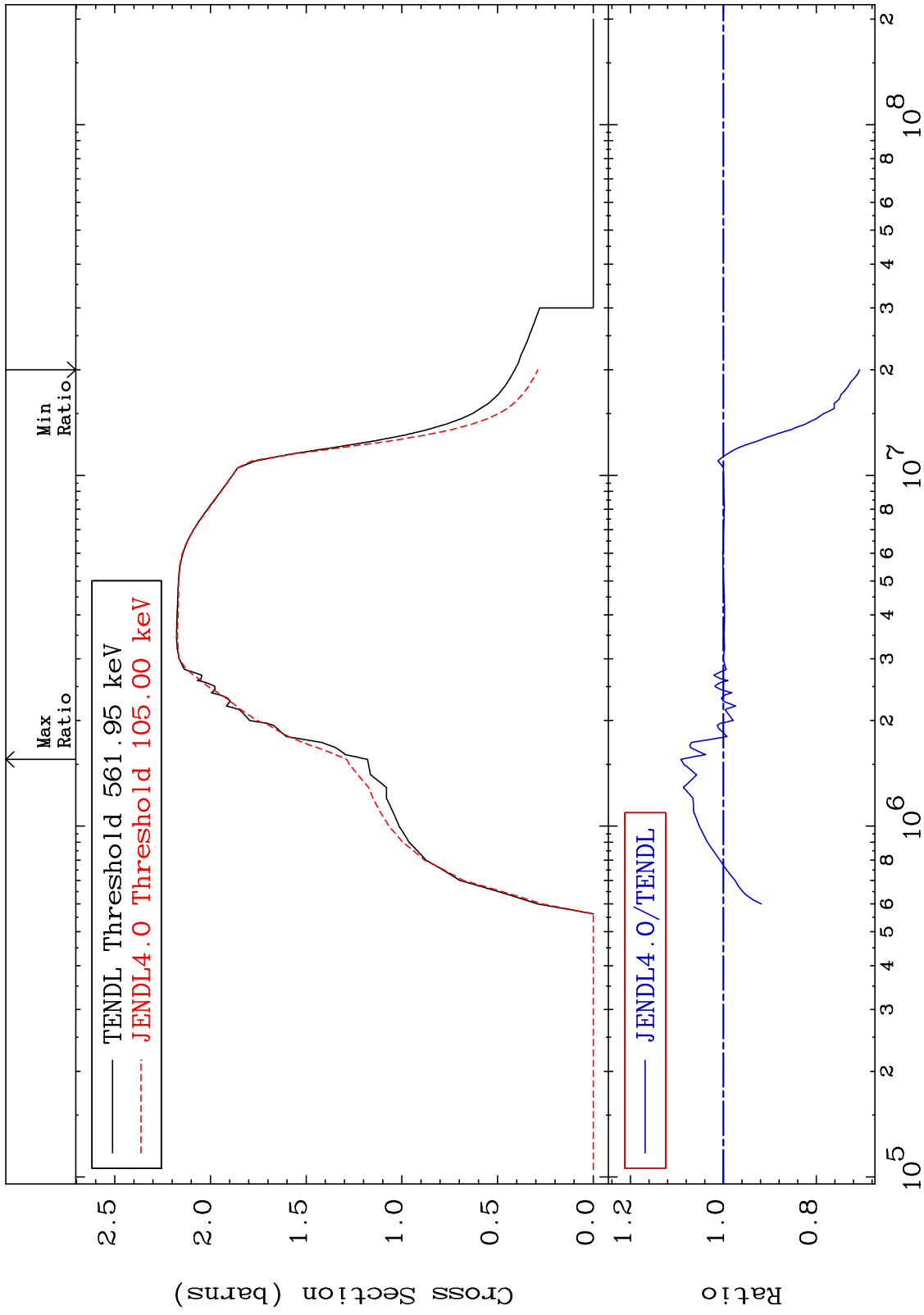
MAT 4625 Elastic Cross Section 46-Pd-102 -99.99 To 9999. %



2 Incident Energy (eV) 46-Pd-102

MAT 4625 46-Pd-102 -29.32 To 9.167 %

Inelastic Cross Section

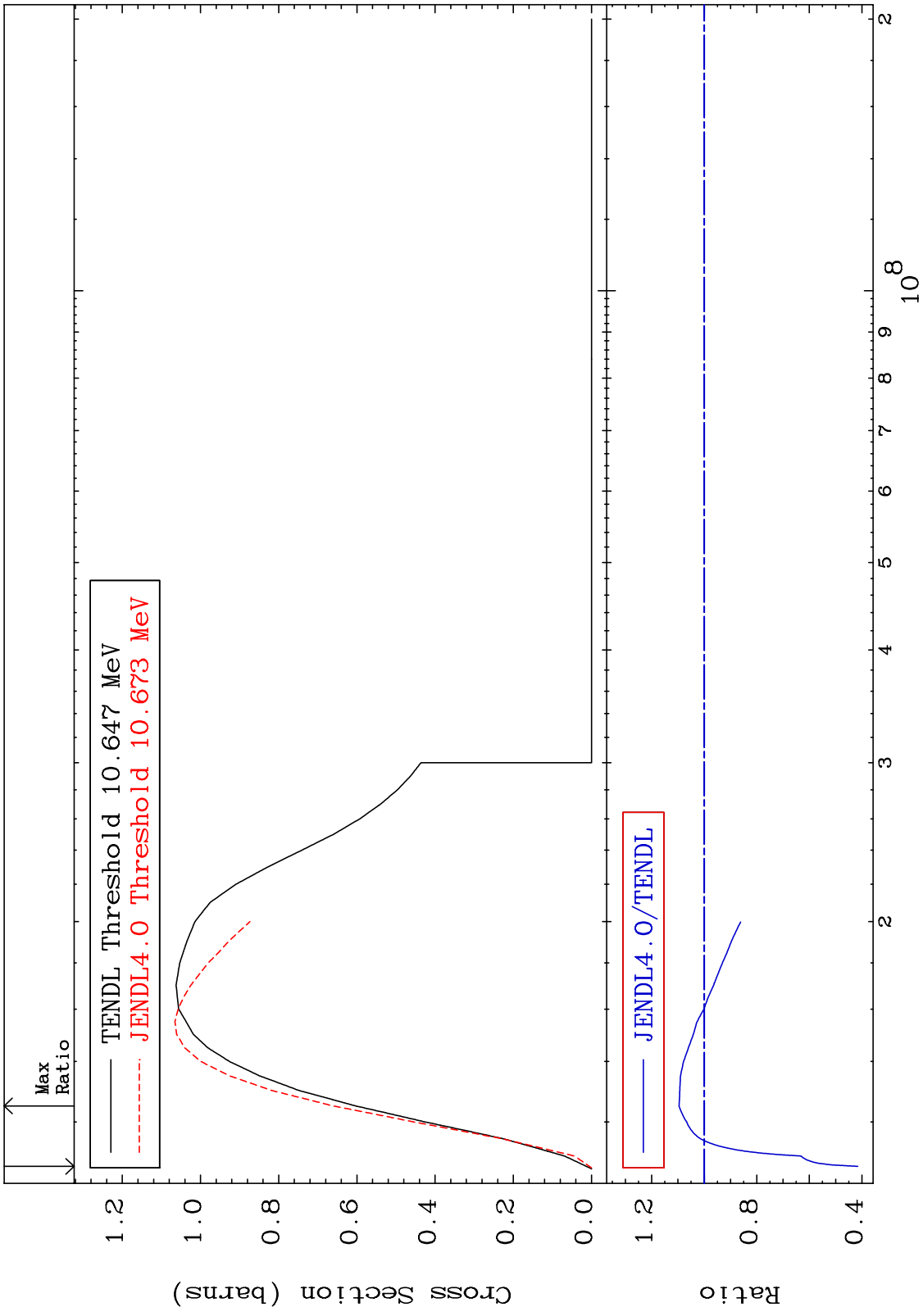


46-Pd-102

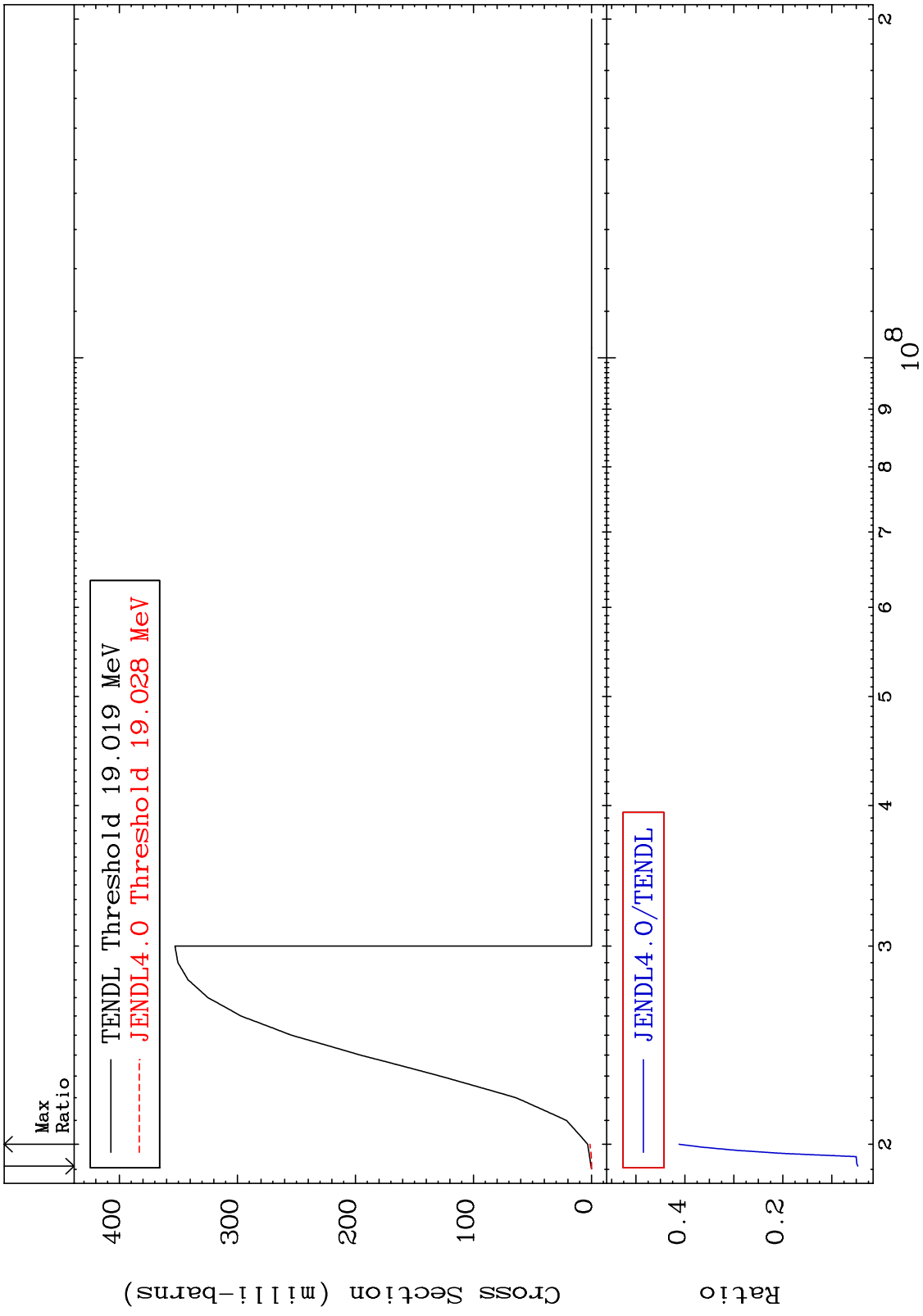
Incident Energy (eV)

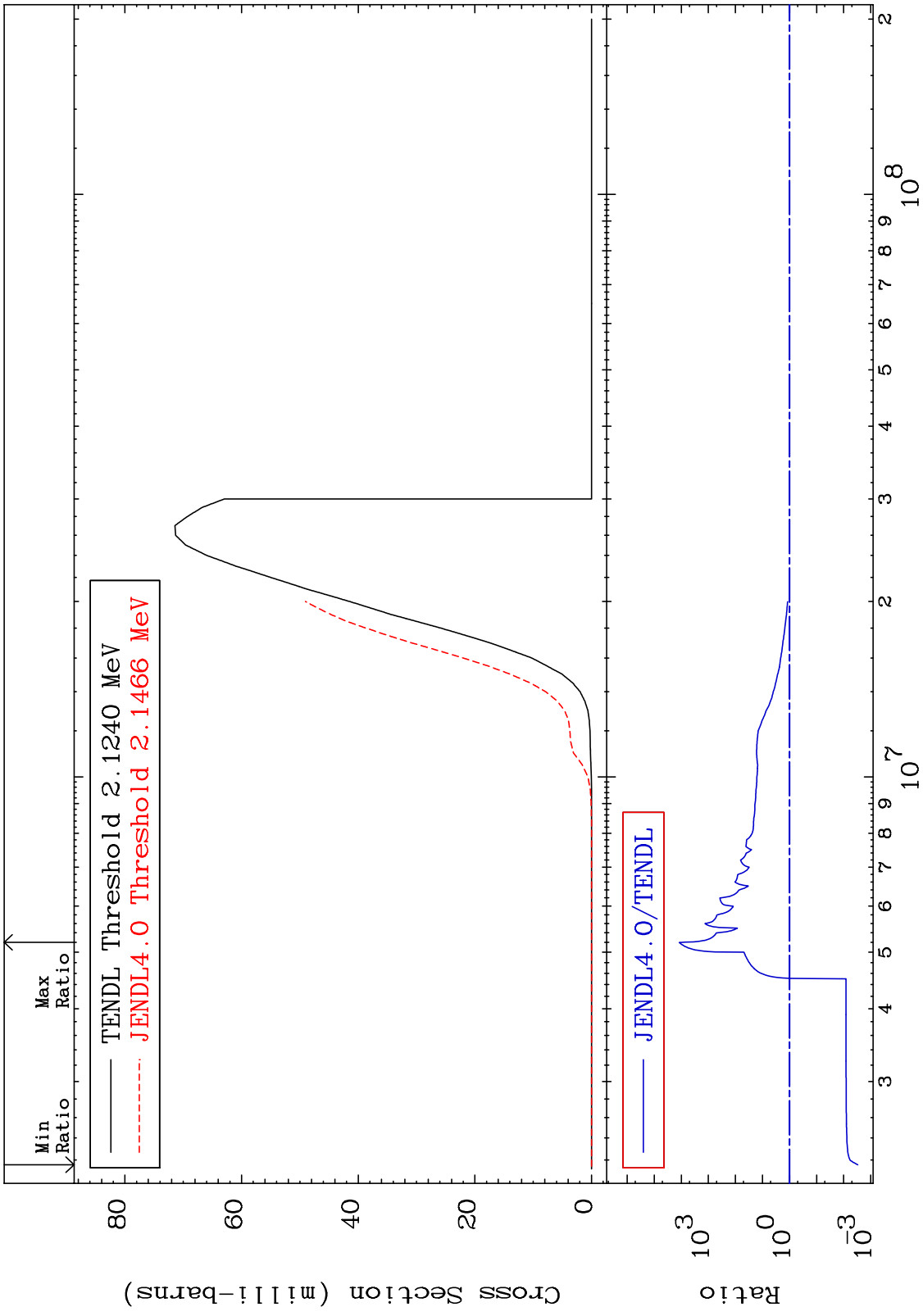
3

MAT 4625 (n,2n) Cross Section 46-Pd-102 -58.46 To 9.588 %

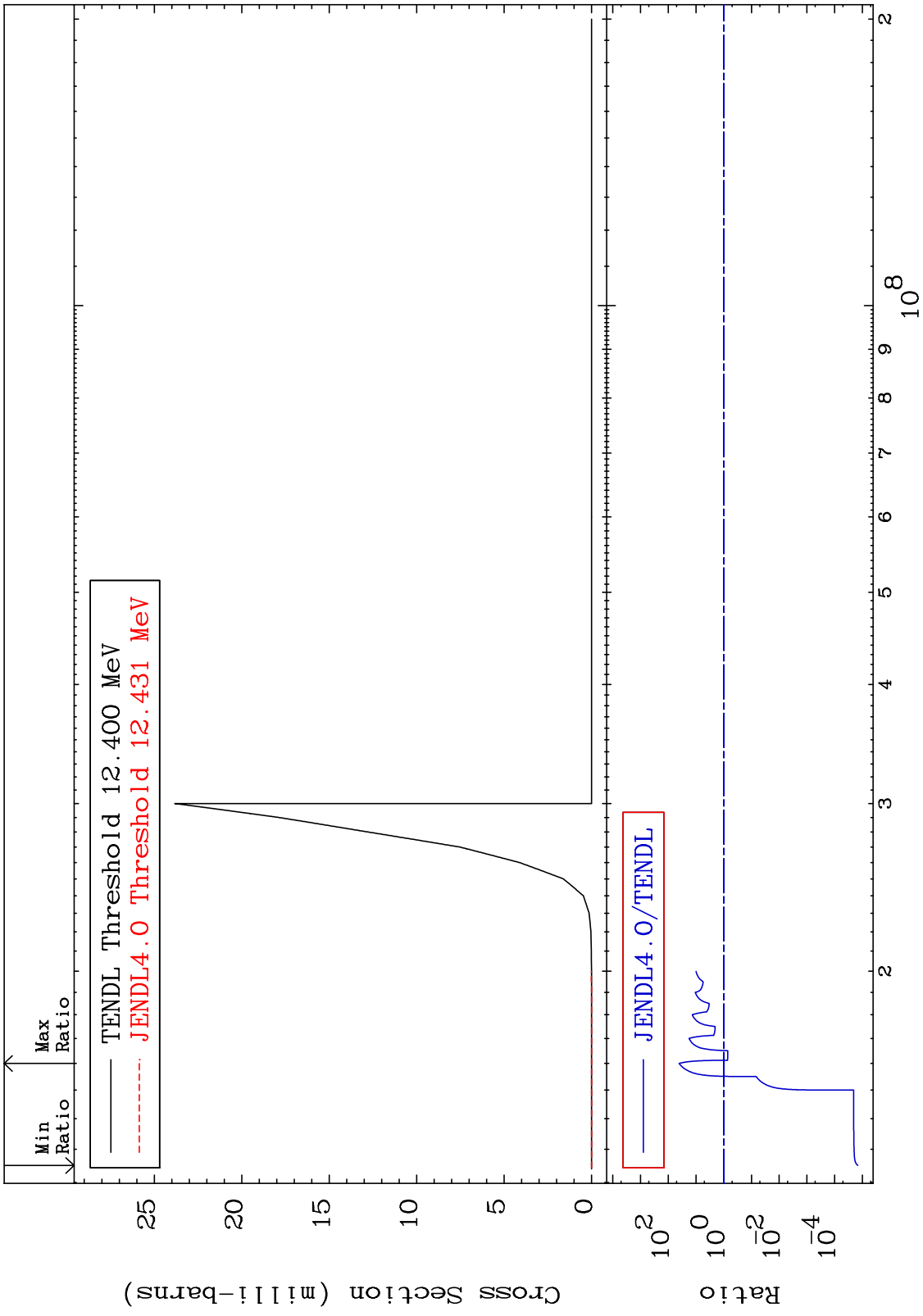


MAT 4625 (n,3n) Cross Section 46-Pd-102 -95.33 To -58.79%

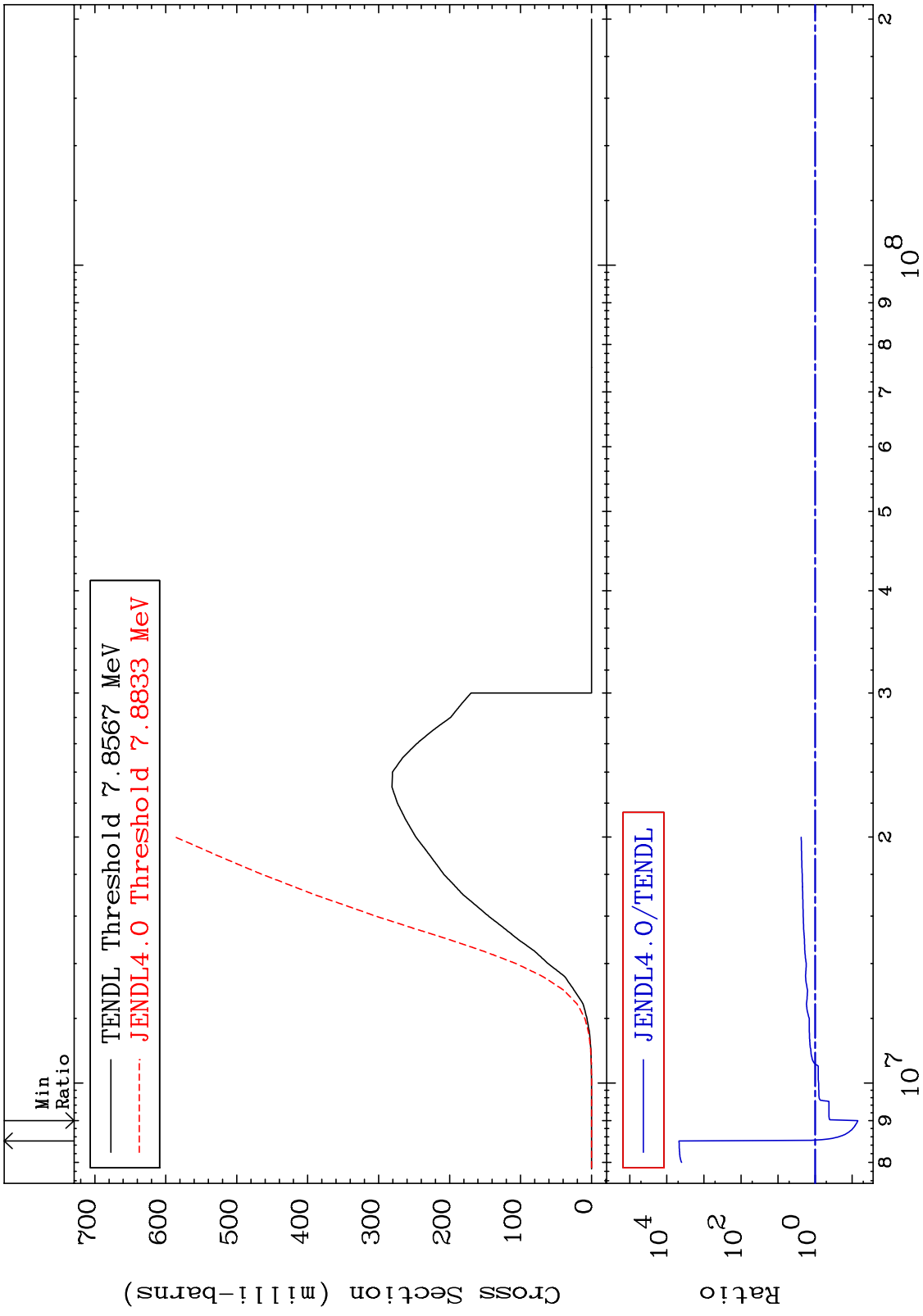


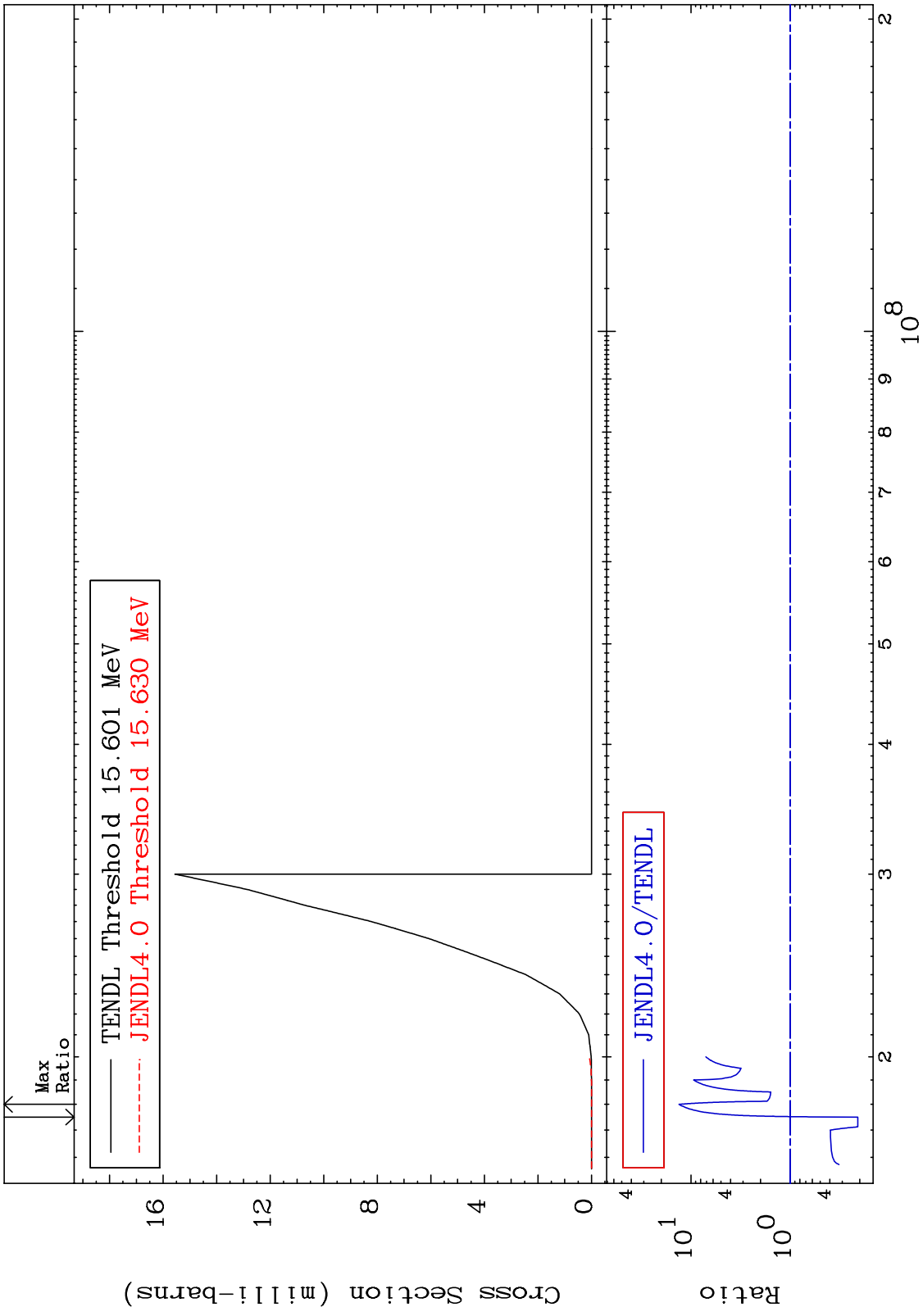


MAT 4625 (n,2n) α 46-Pd-102
 Cross Section -100.0 To 3973. %

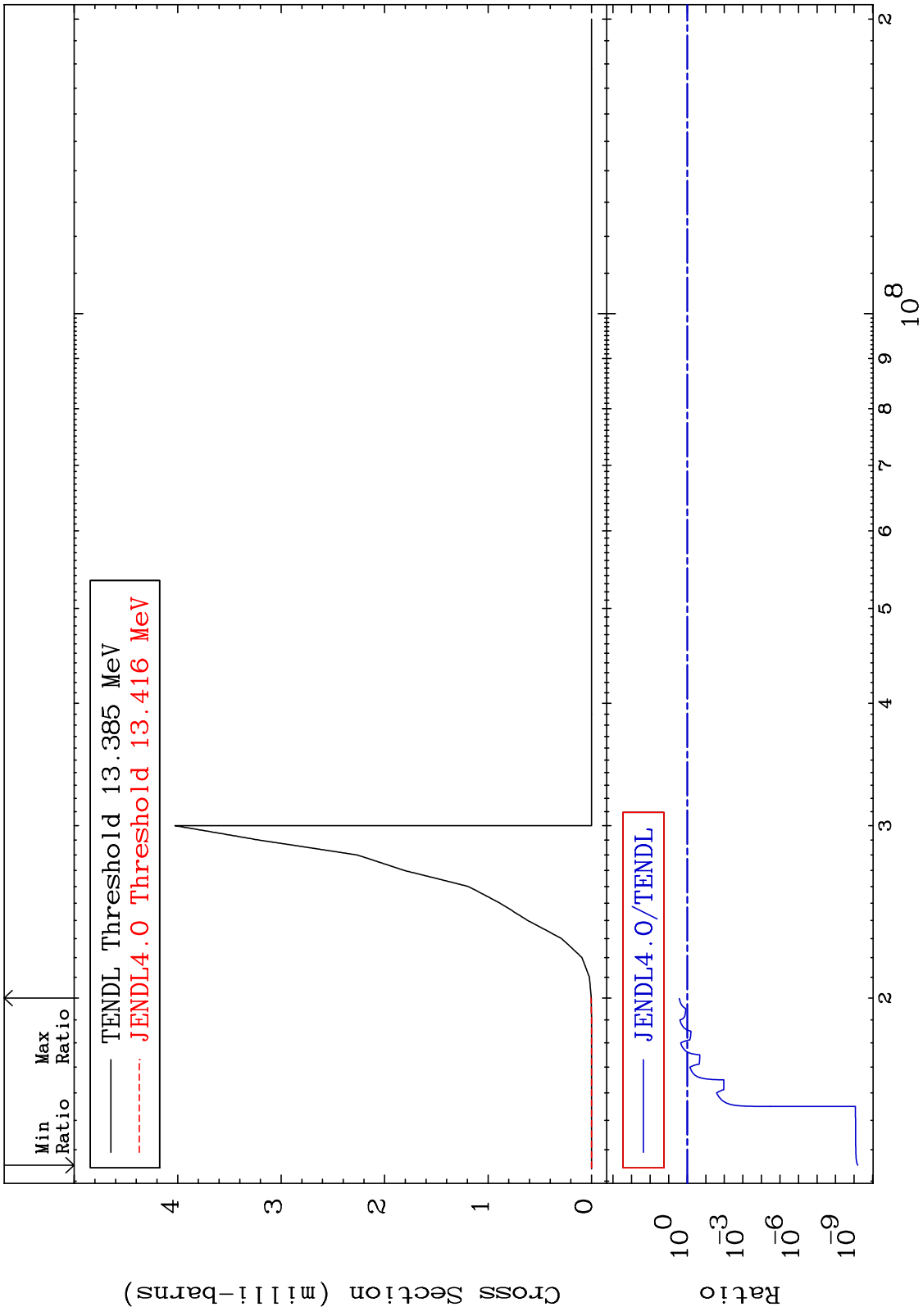


MAT 4625 (n,n') p 46-Pd-102
Cross Section -92.96 To 9999. %

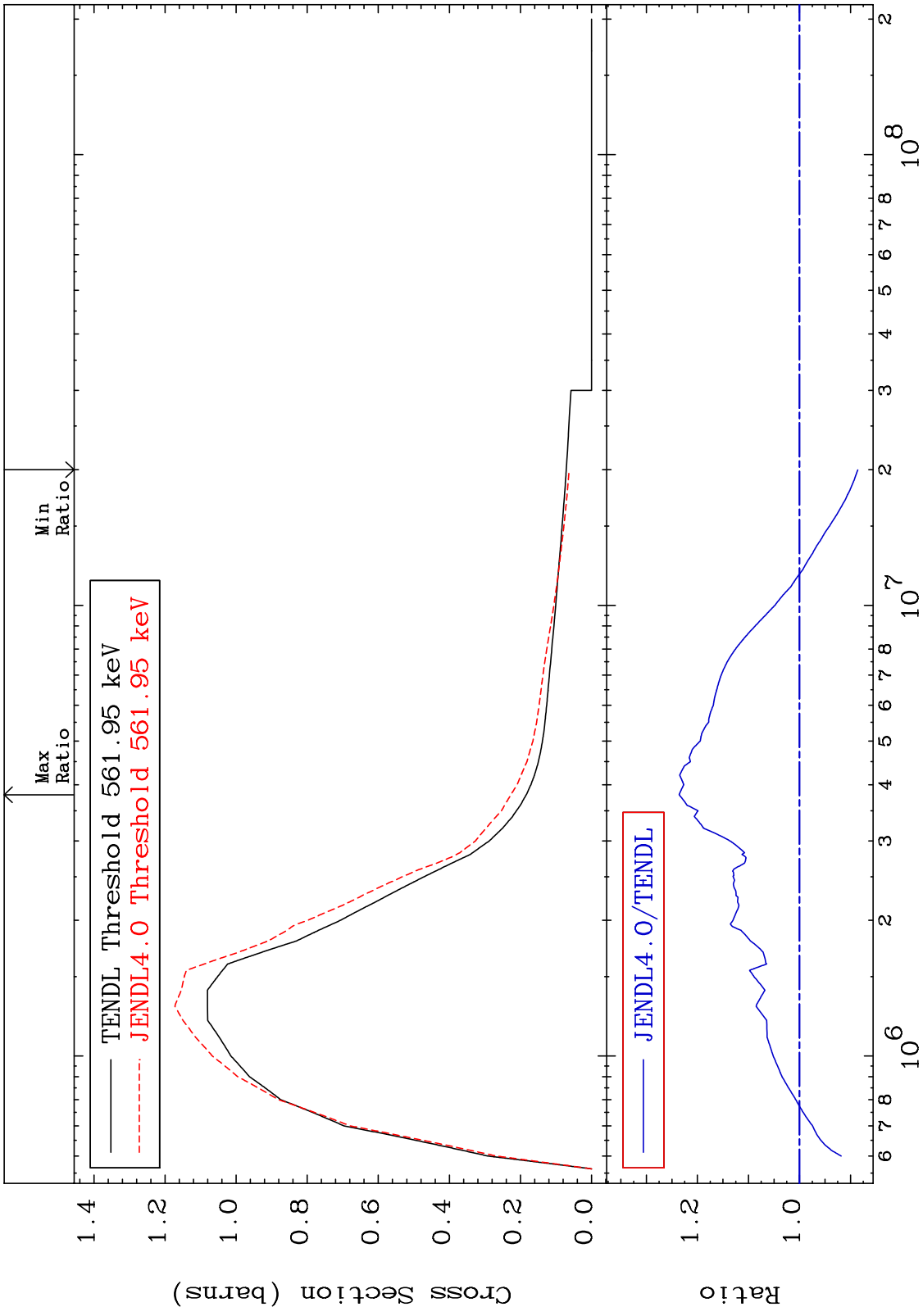




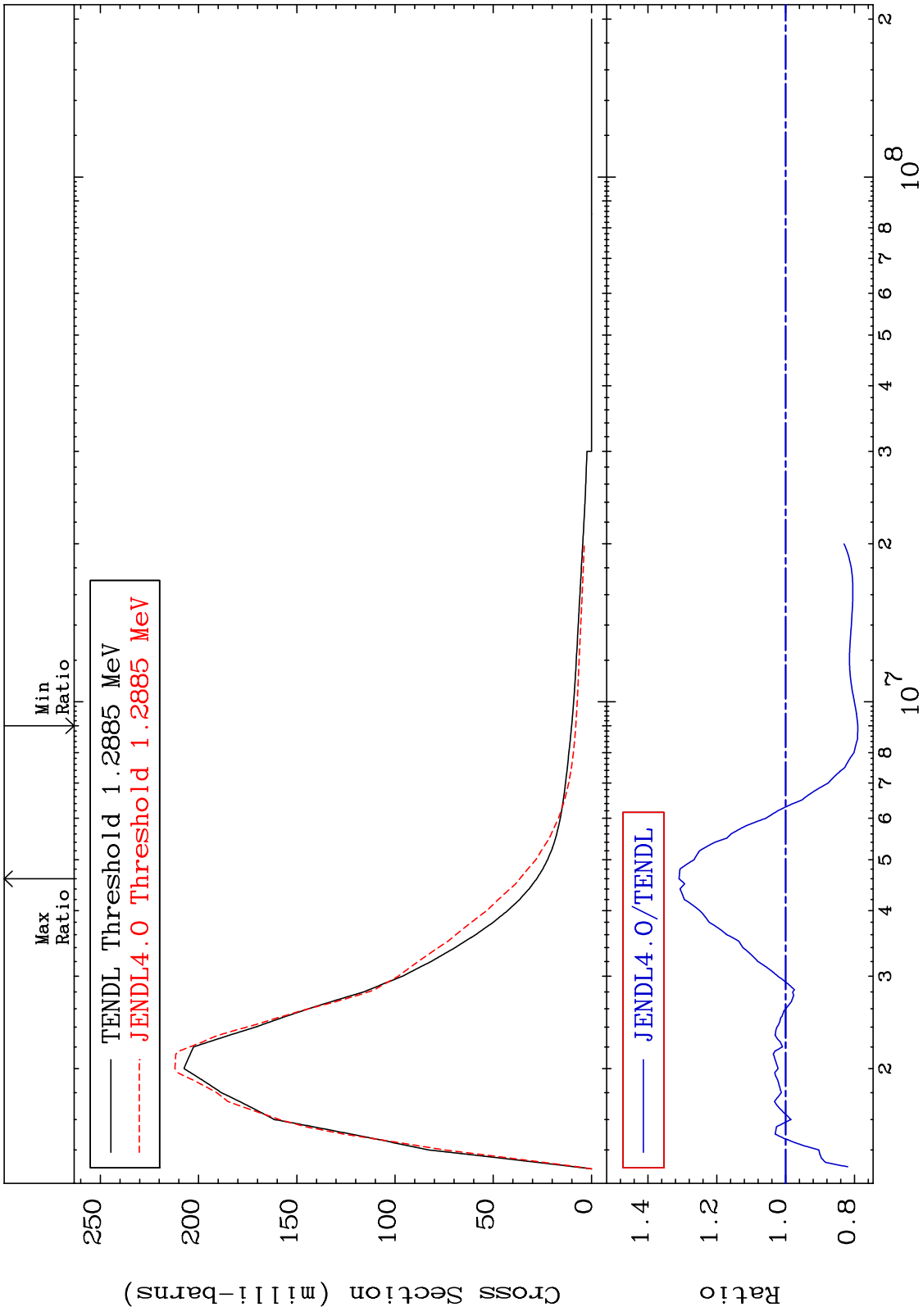
MAT 4625 (n,2n) p 46-Pd-102
 Cross Section -100.0 To 176.5 %



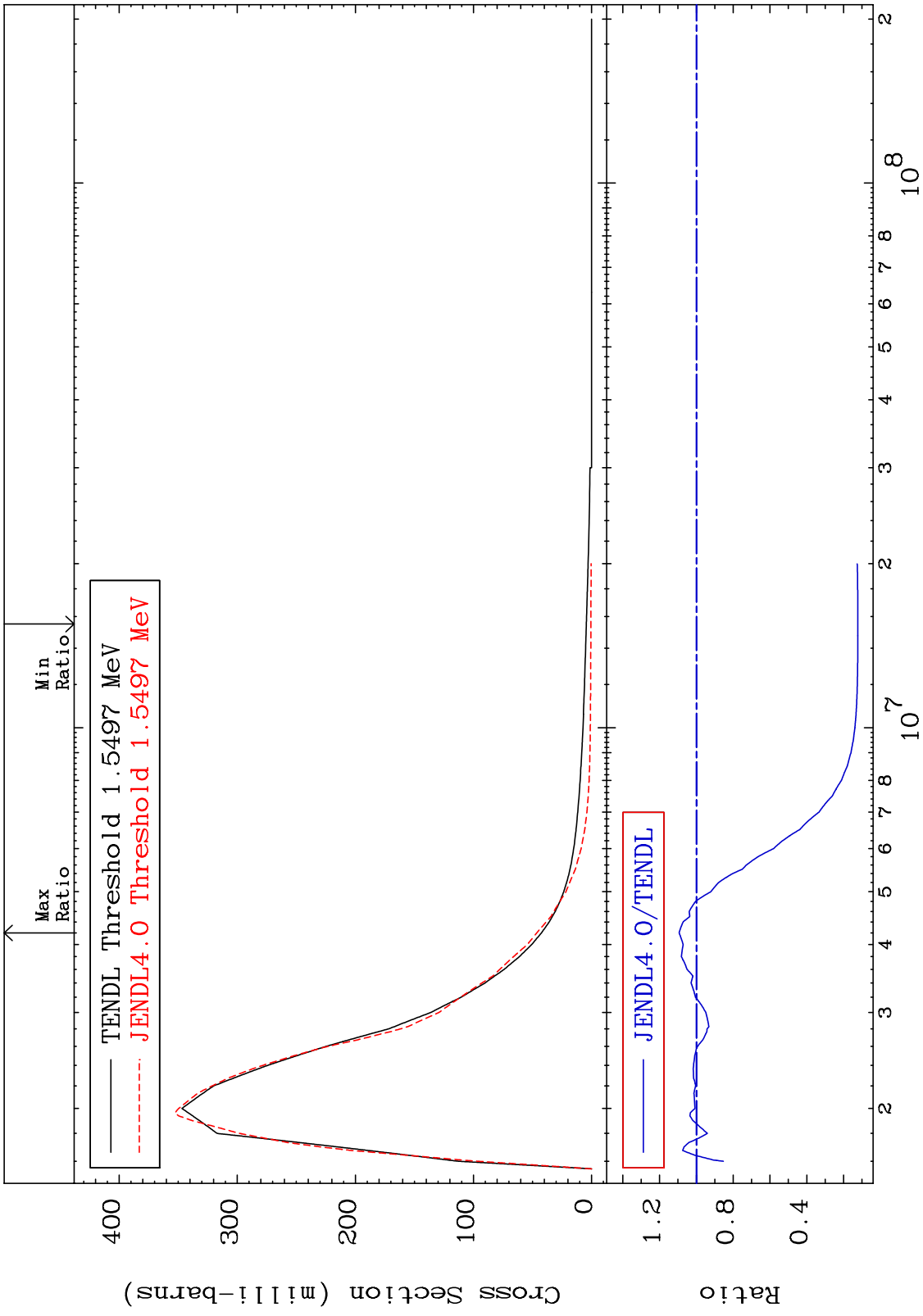
MAT 4625 MT= 51 (n,n') Level 46-Pd-102
 Cross Section -11.44 To 23.60 %



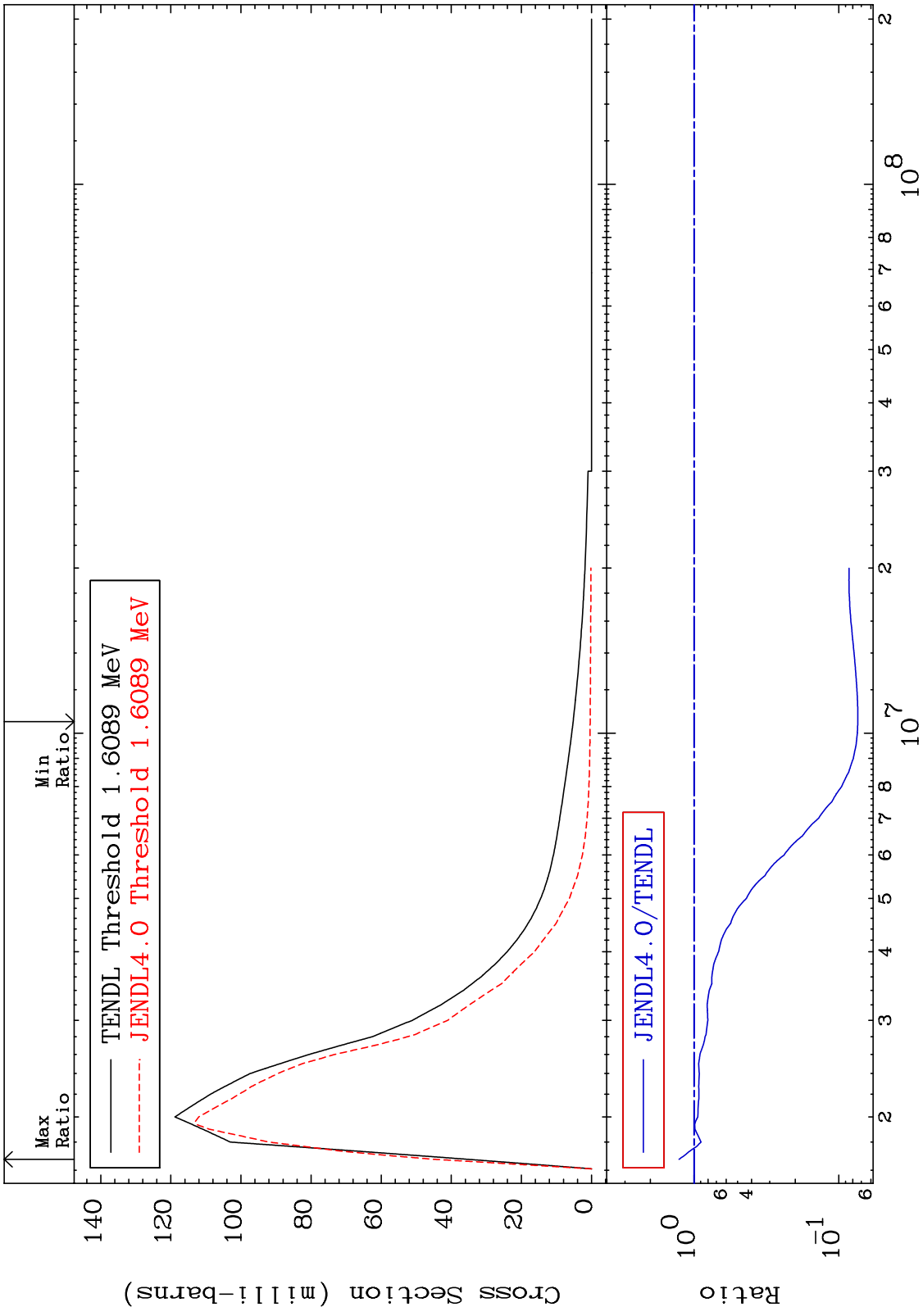
MAT 4625 MT= 52 (n,n') Level Cross Section 46-Pd-102
 -20.95 To 30.98 %



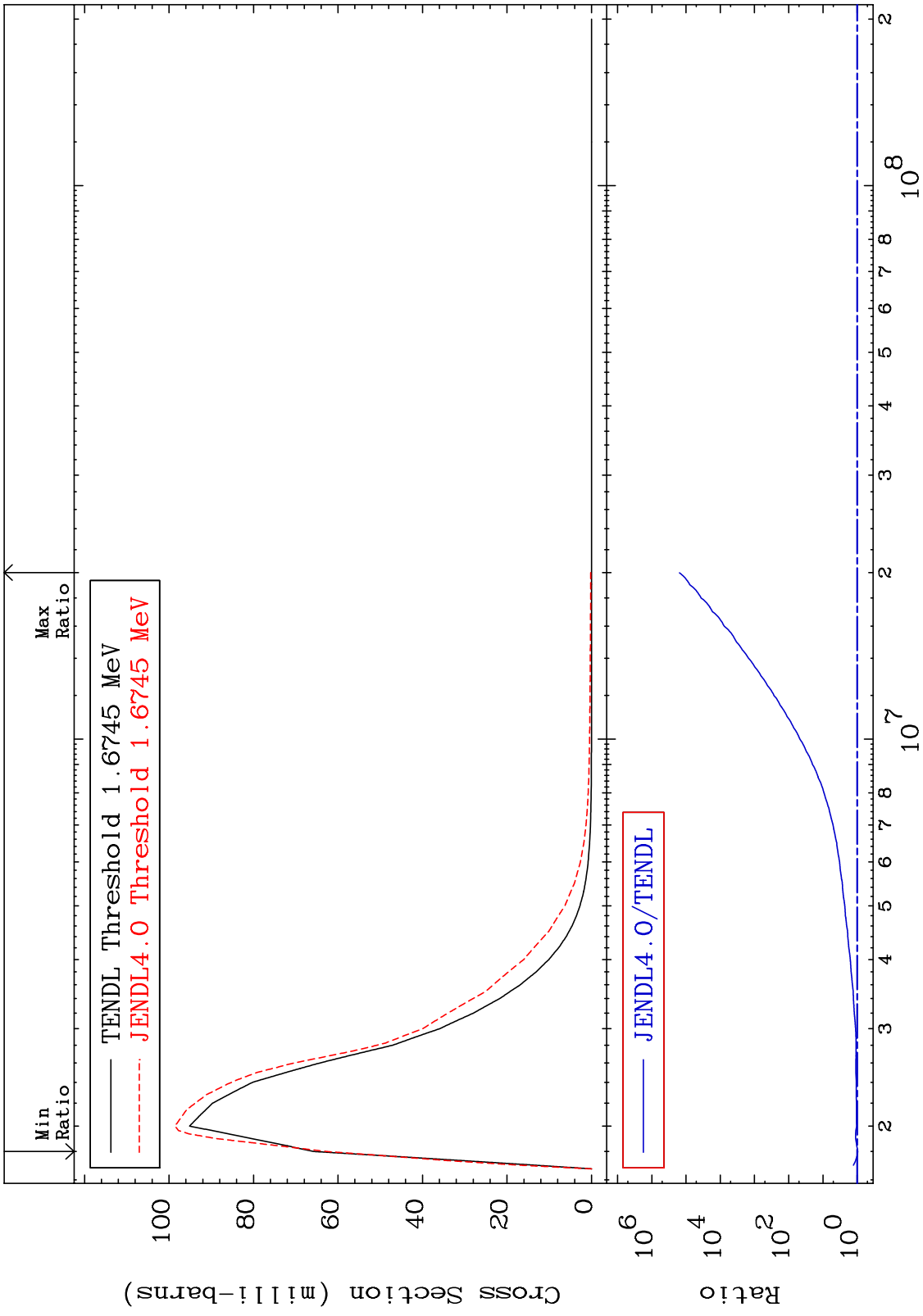
MAT 4625 MT= 53 (n,n') Level Cross Section 46-Pd-102 -87.77 To 9.424 %



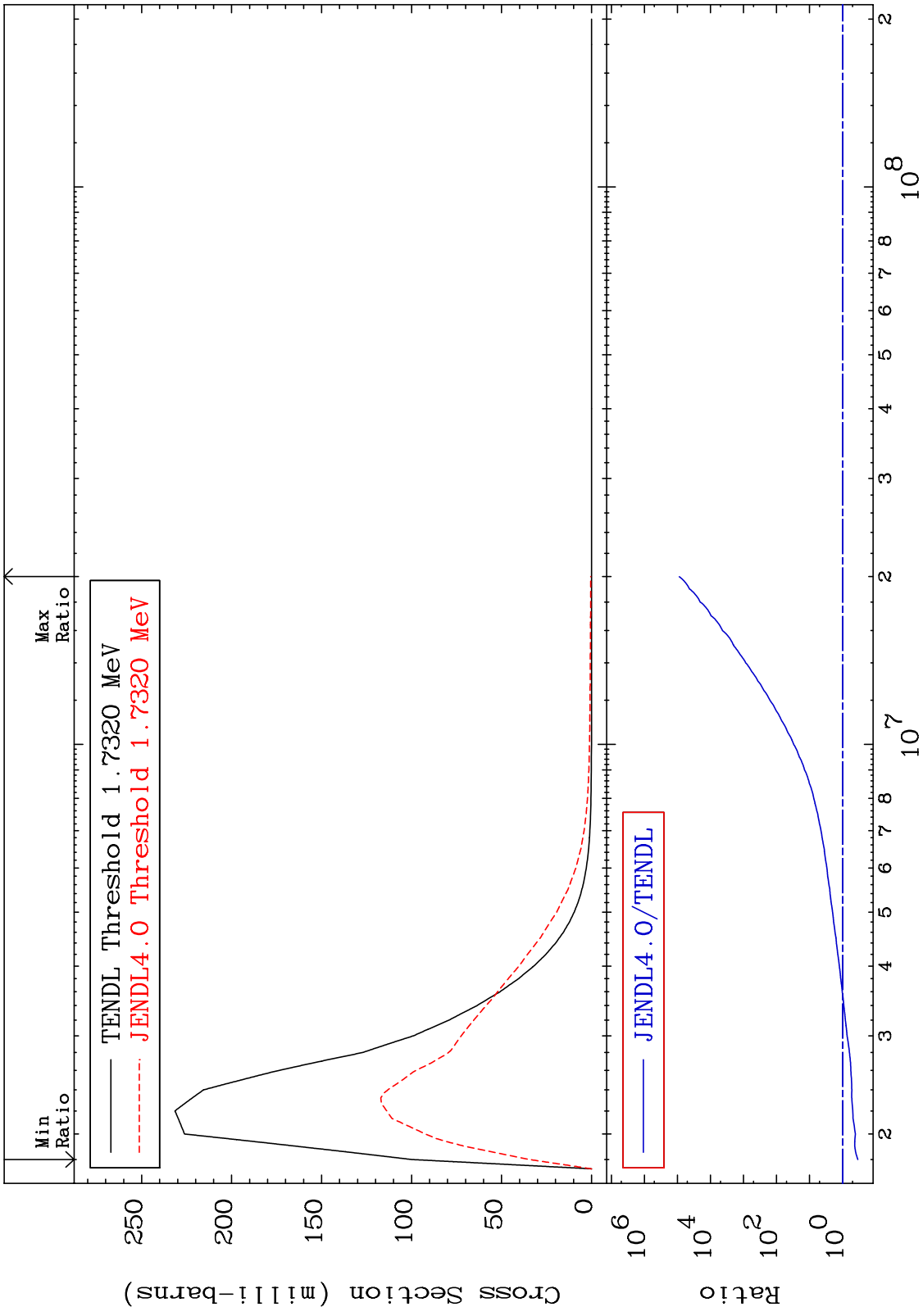
MAT 4625 MT= 54 (n,n') Level Cross Section 46-Pd-102 -92.61 To 26.81 %



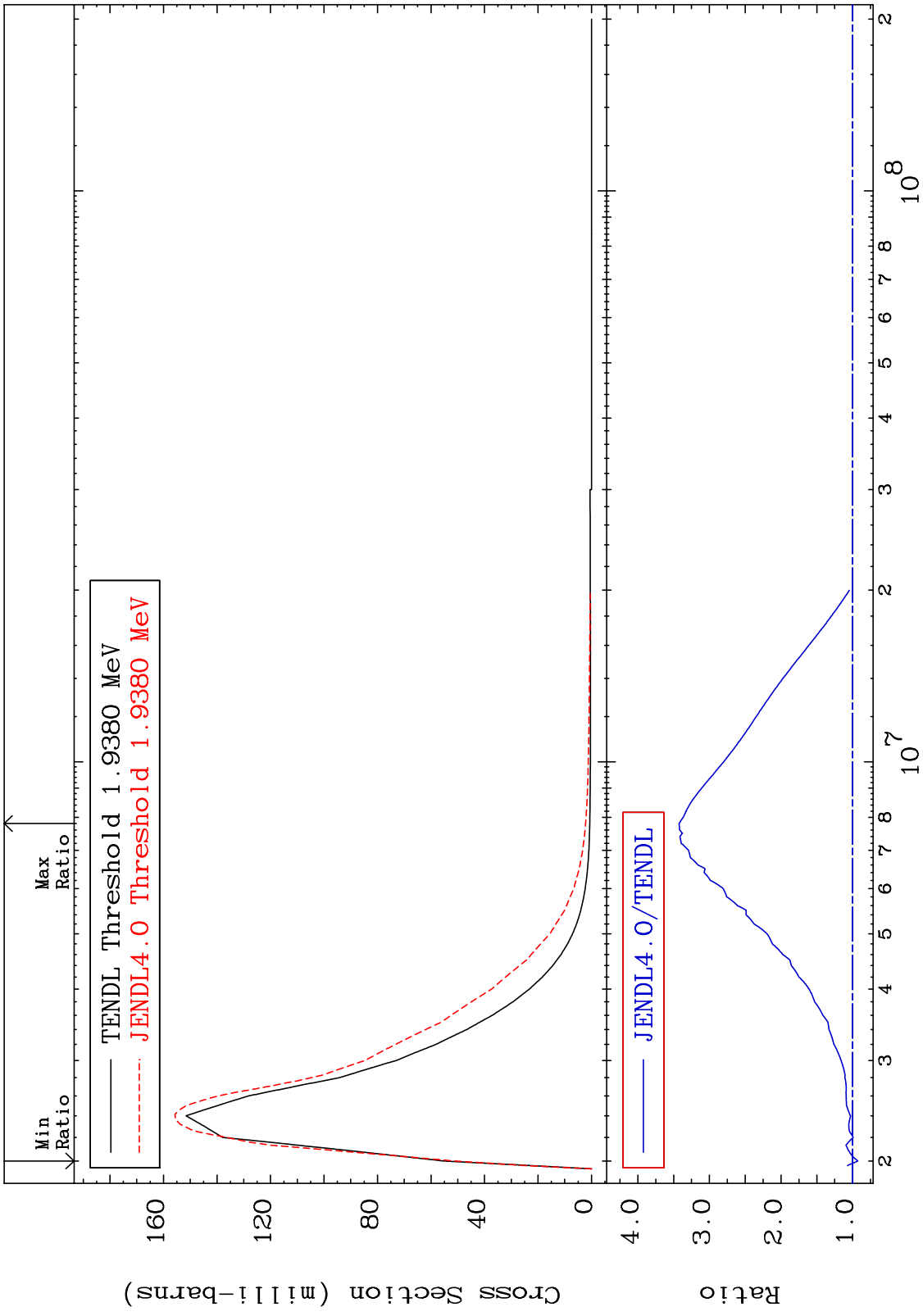
MAT 4625 MT= 55 (n,n') Level Cross Section 46-Pd-102
-4.534 To 9999. %



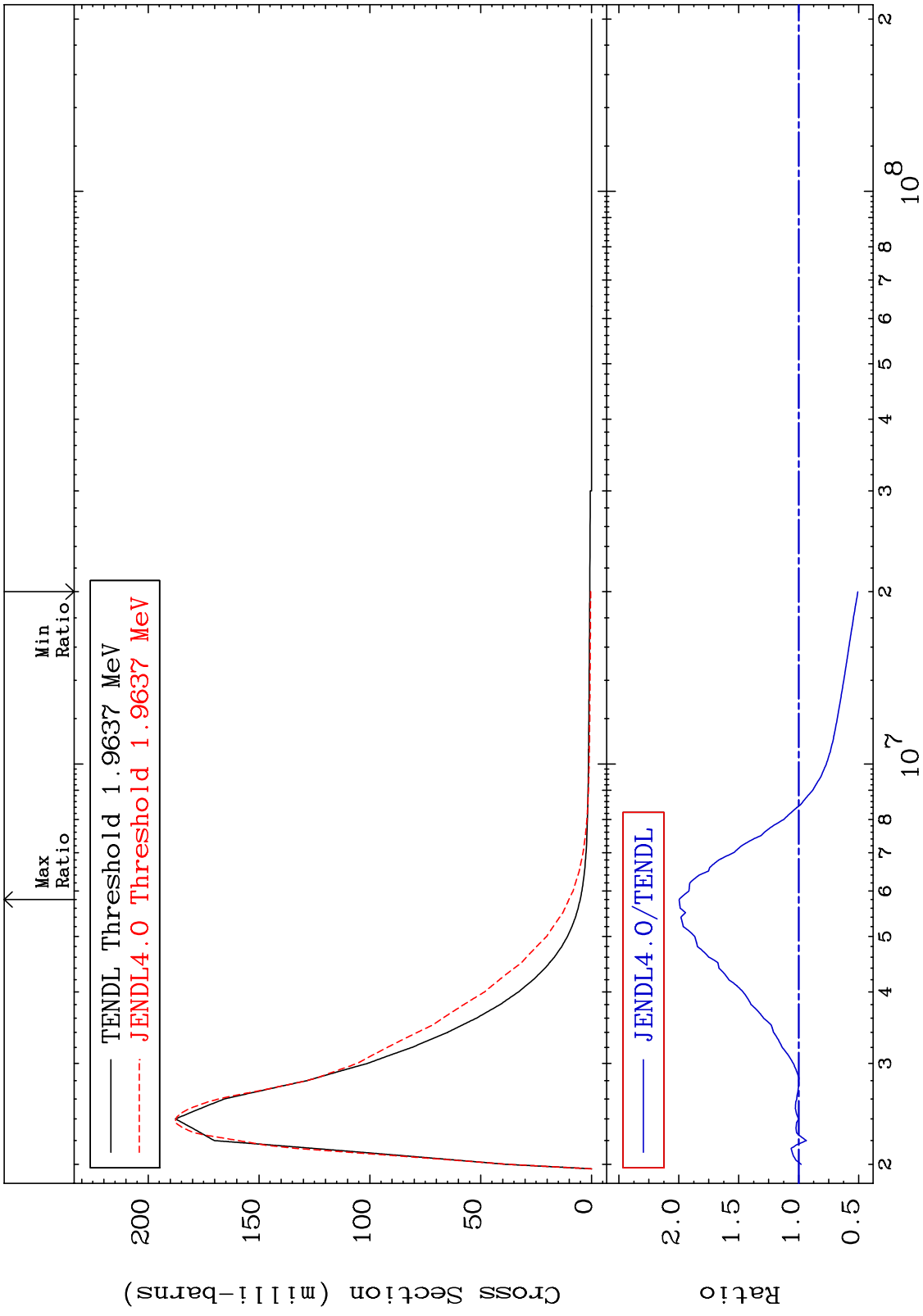
MAT 4625 MT= 56 (n,n') Level Cross Section 46-Pd-102
 -65.42 To 9999. %



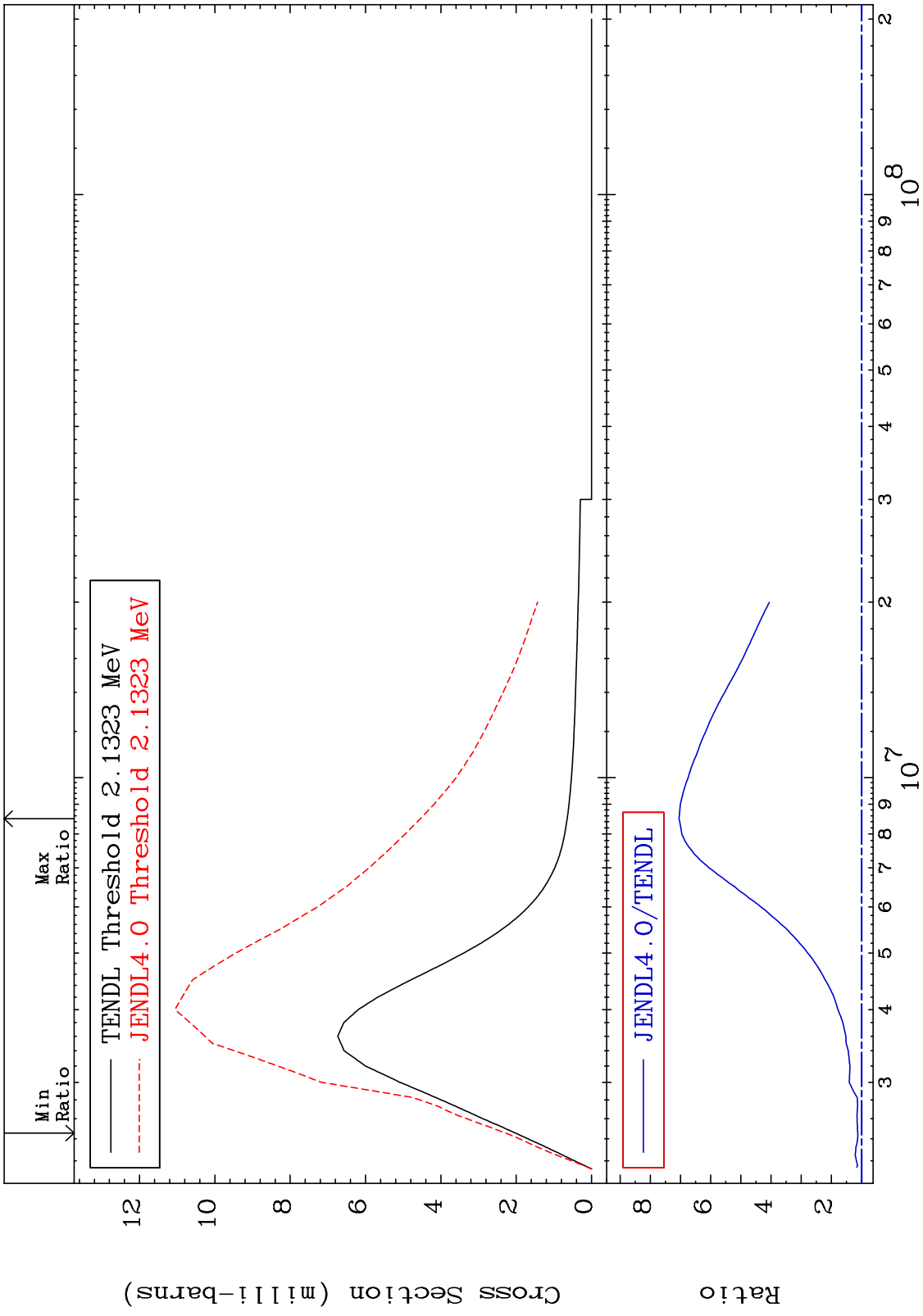
MAT 4625 MT= 57 (n,n') Level Cross Section 46-Pd-102
 -7.314 To 242.5 %



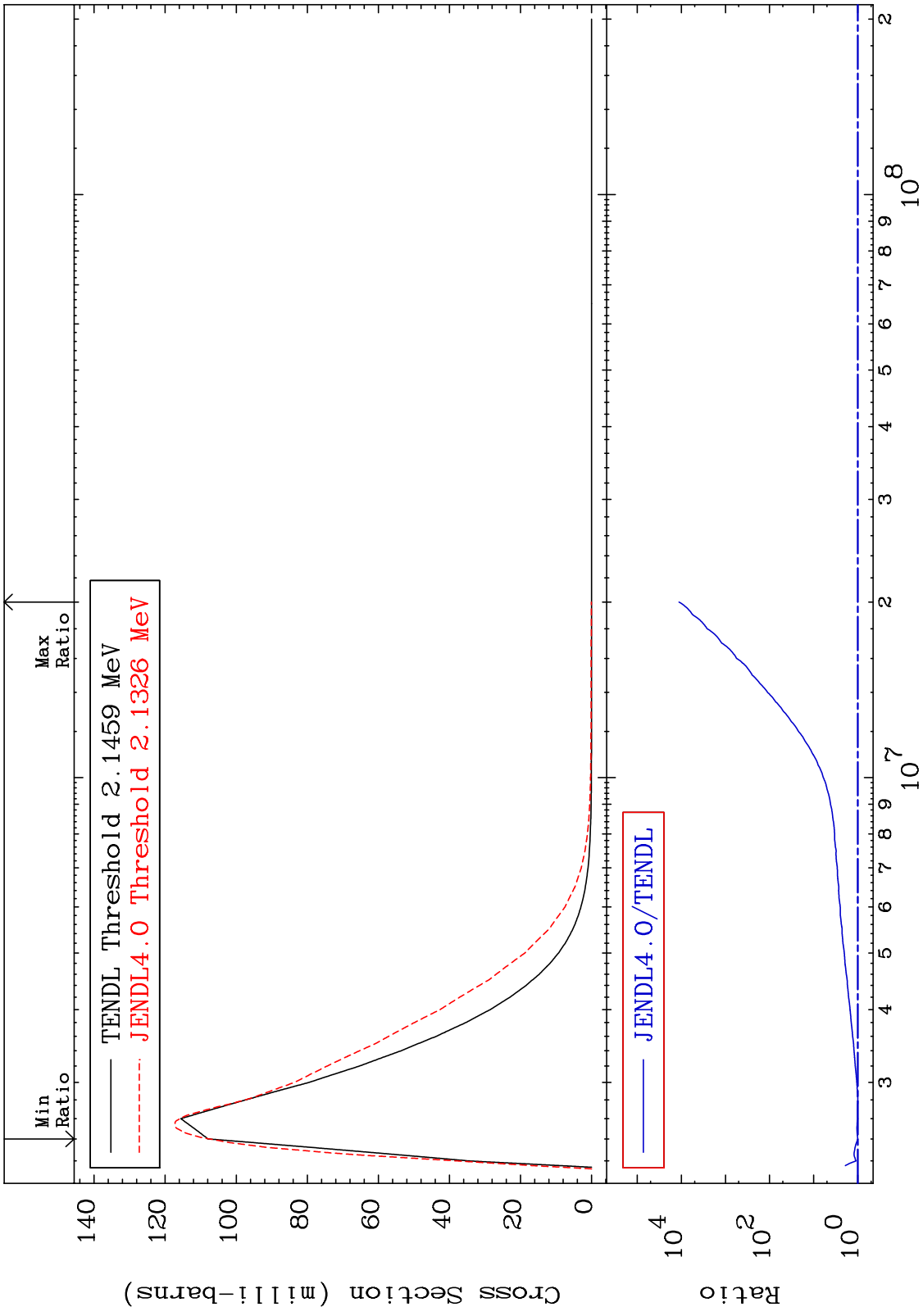
MAT 4625 MT= 58 (n,n') Level Cross Section 46-Pd-102
 -49.35 To 99.80 %



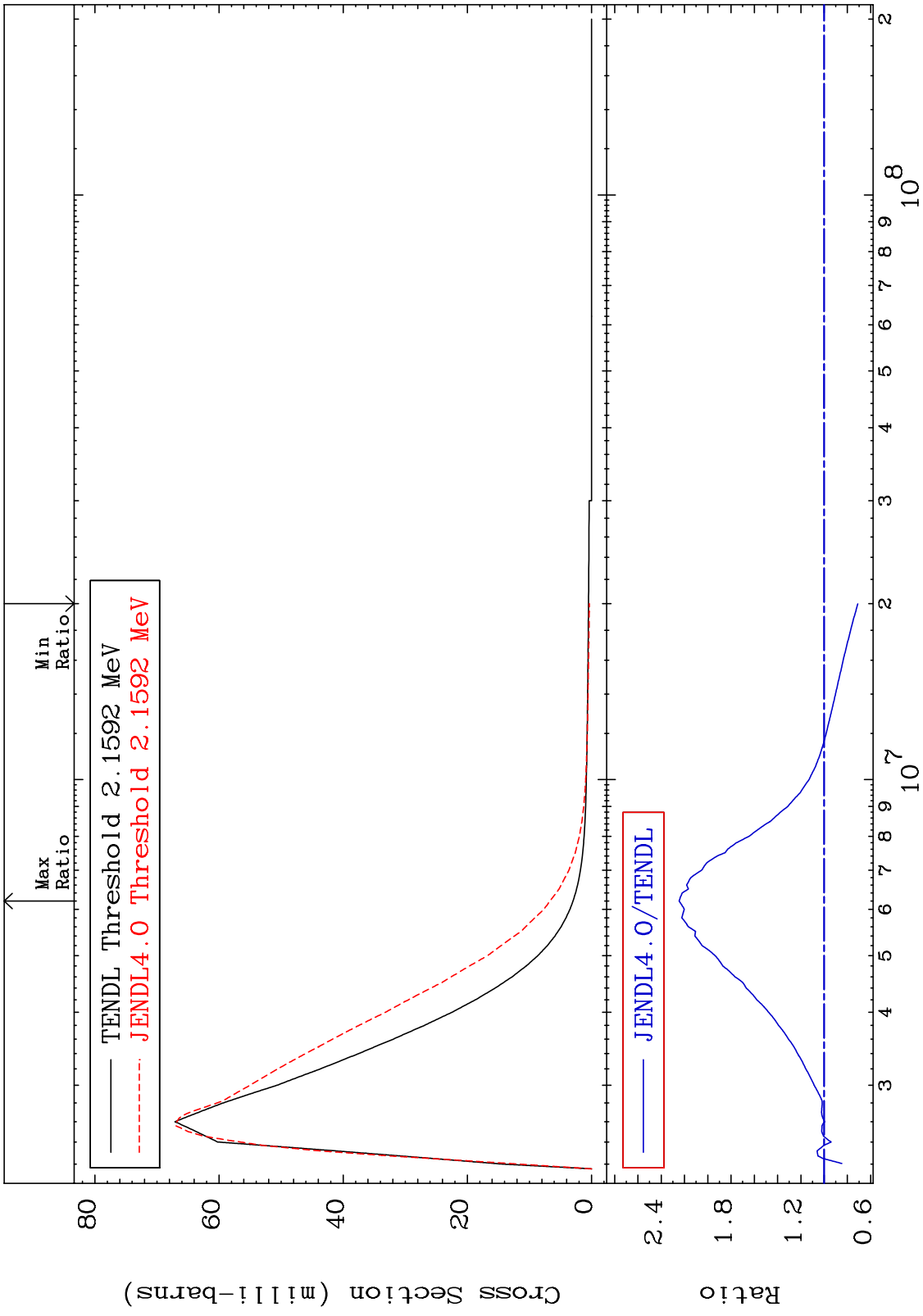
MAT 4625 MT= 59 (n,n') Level Cross Section 46-Pd-102 12.54 To 604.9 %



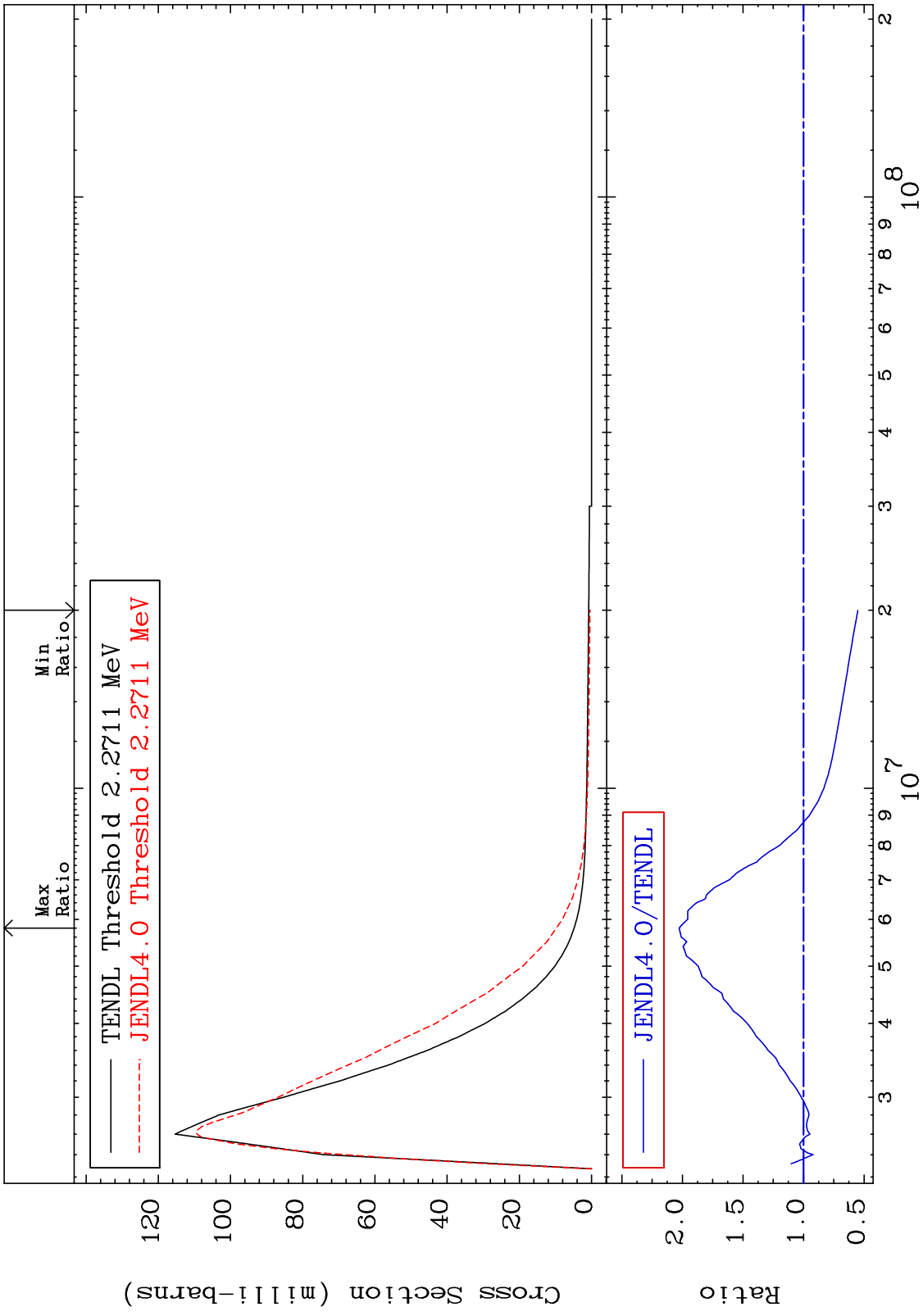
MAT 4625 MT= 60 (n,n') Level Cross Section 46-Pd-102
 -0.364 To 9999. %



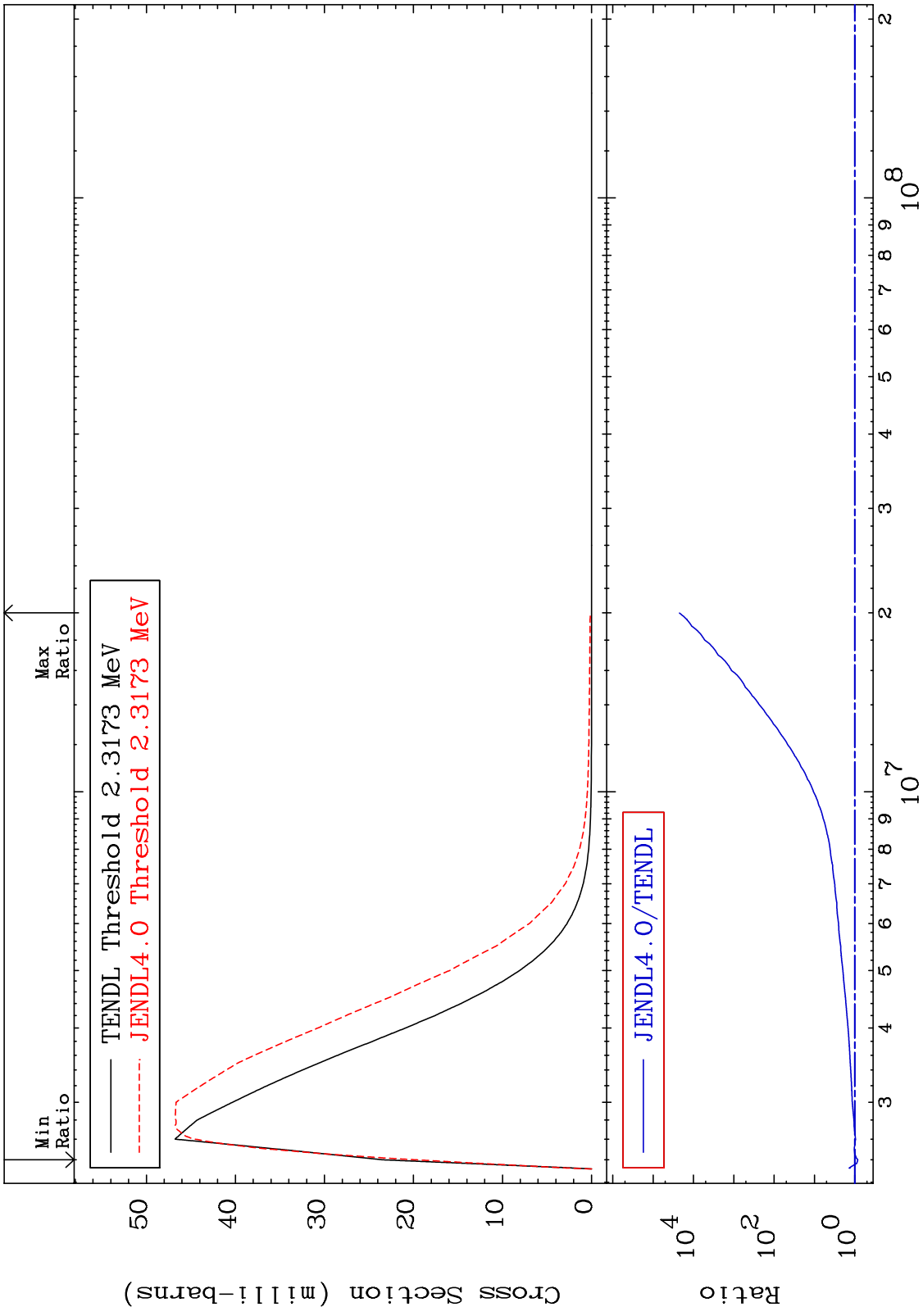
MAT 4625 MT= 61 (n,n') Level Cross Section 46-Pd-102 -28.97 To 124.7 %



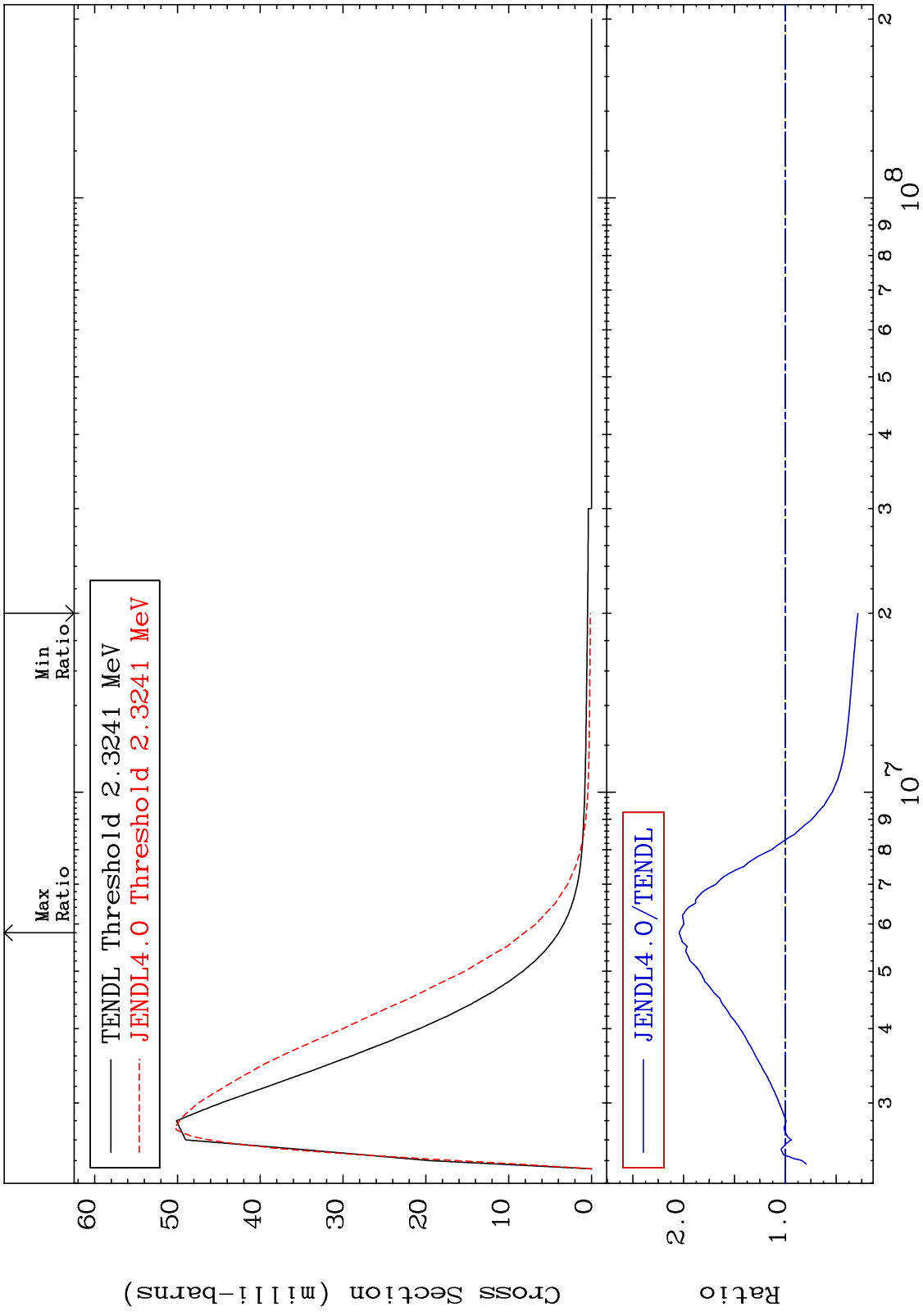
MAT 4625 MT= 62 (n,n') Level Cross Section 46-Pd-102
 -44.88 To 102.8 %



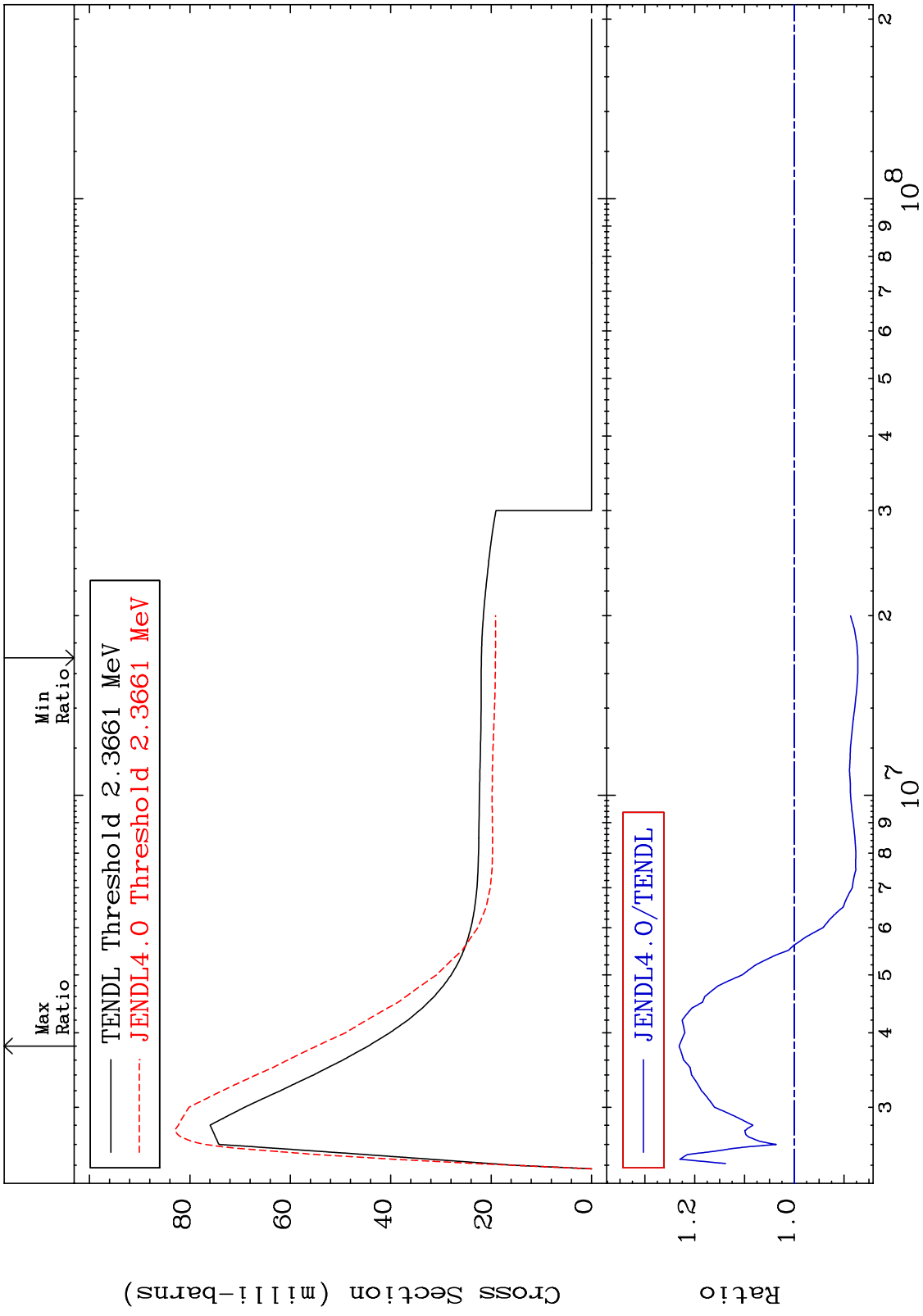
MAT 4625 MT= 63 (n,n') Level Cross Section 46-Pd-102
 -15.91 To 9999. %



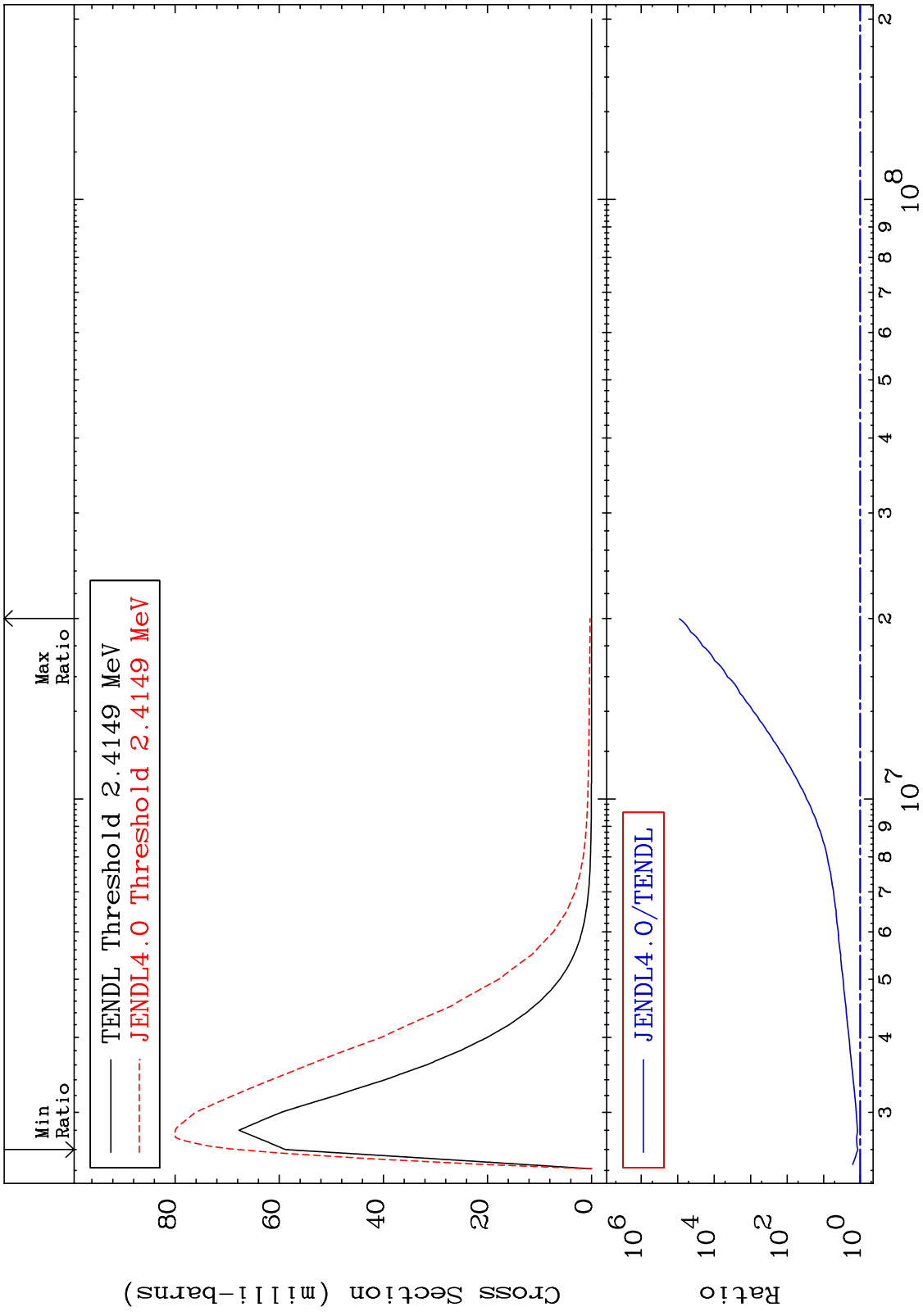
MAT 4625 MT= 64 (n,n') Level Cross Section 46-Pd-102 -71.24 To 104.5 %



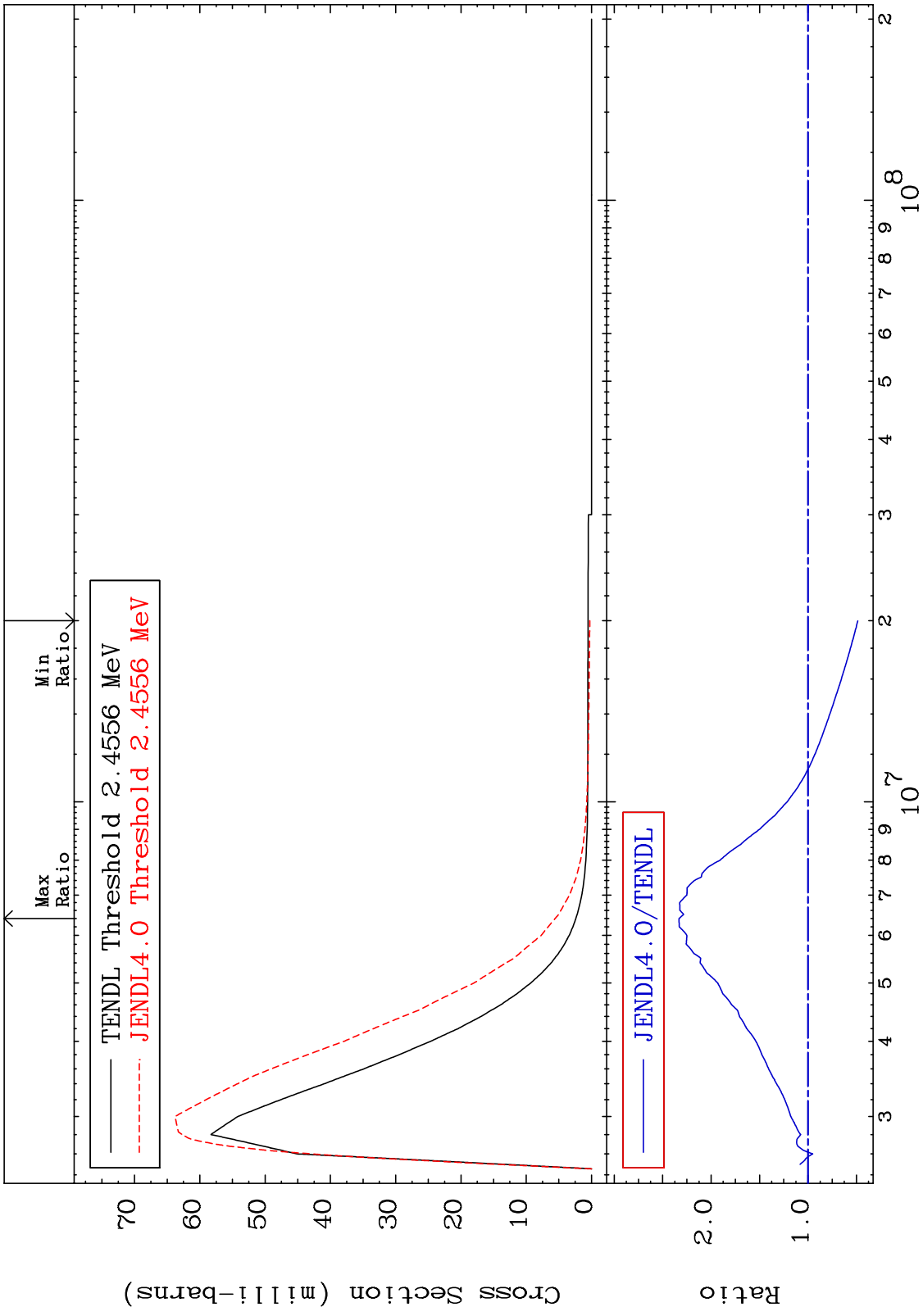
MAT 4625 MT= 65 (n,n') Level Cross Section 46-Pd-102
 -12.76 To 23.14 %



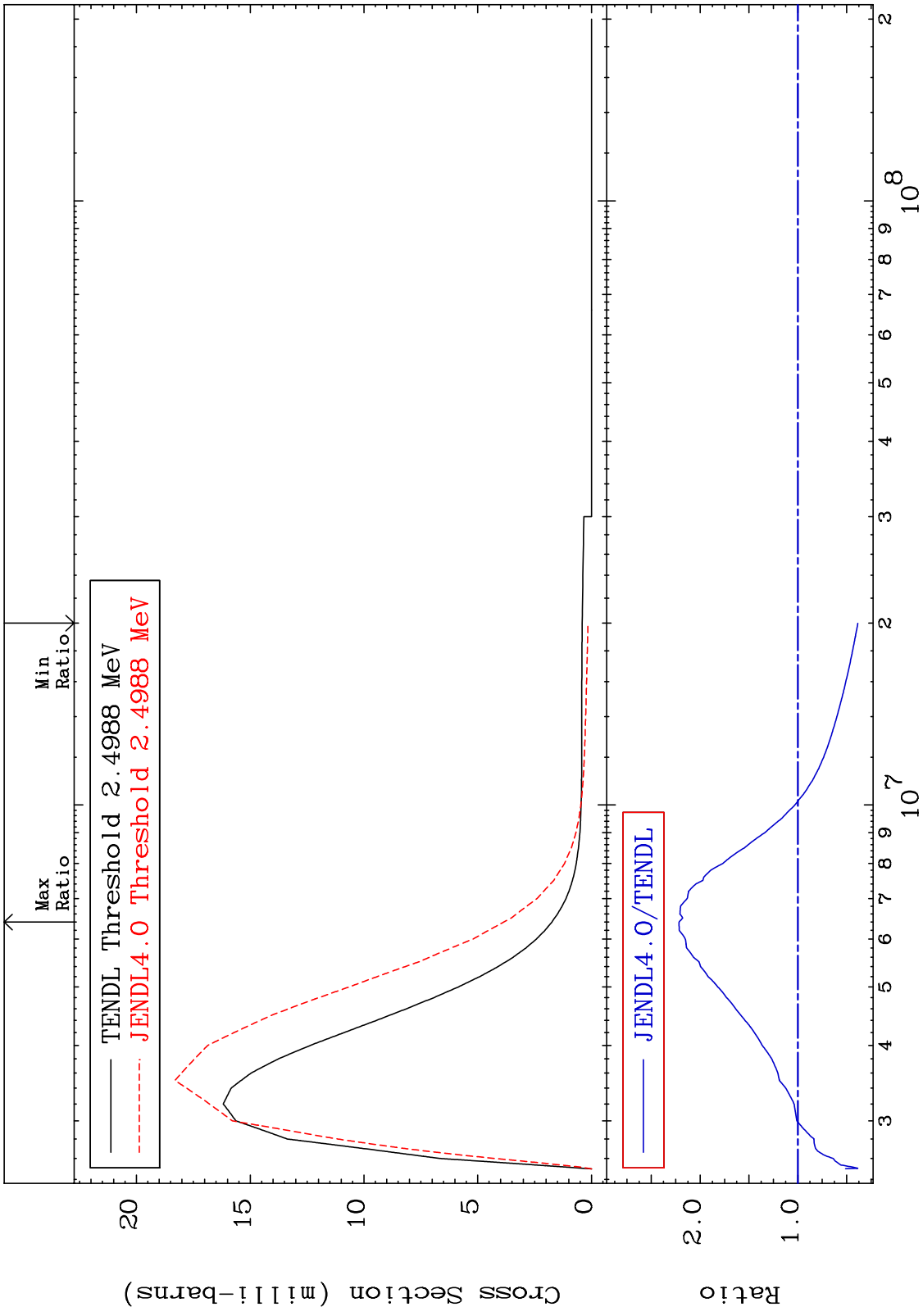
MAT 4625 MT= 66 (n,n') Level Cross Section 46-Pd-102
 15.34 To 9999. %



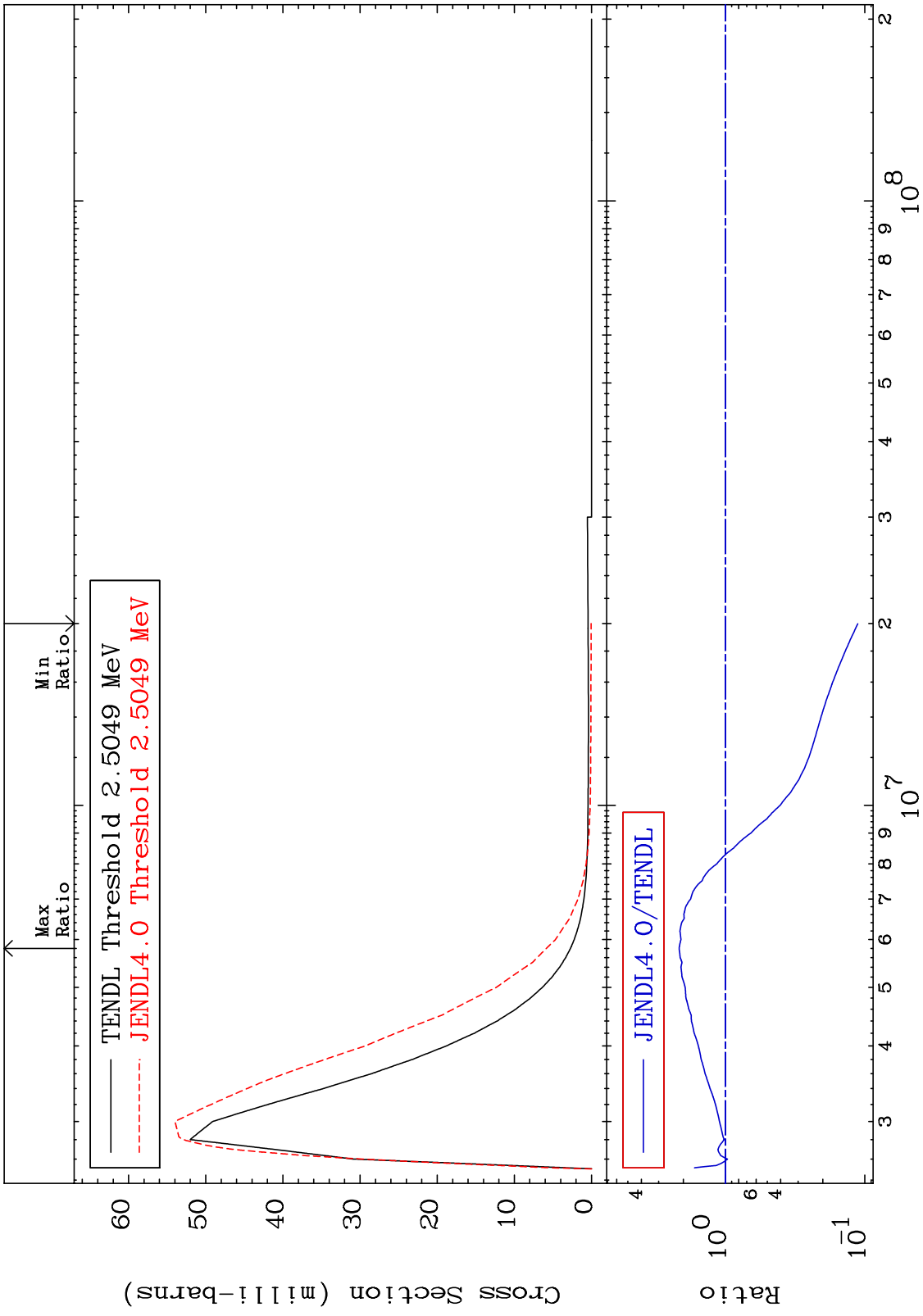
MAT 4625 MT= 67 (n,n') Level Cross Section 46-Pd-102 -51.44 To 133.1 %



MAT 4625 MT= 68 (n,n') Level Cross Section 46-Pd-102
 -61.47 To 121.6 %

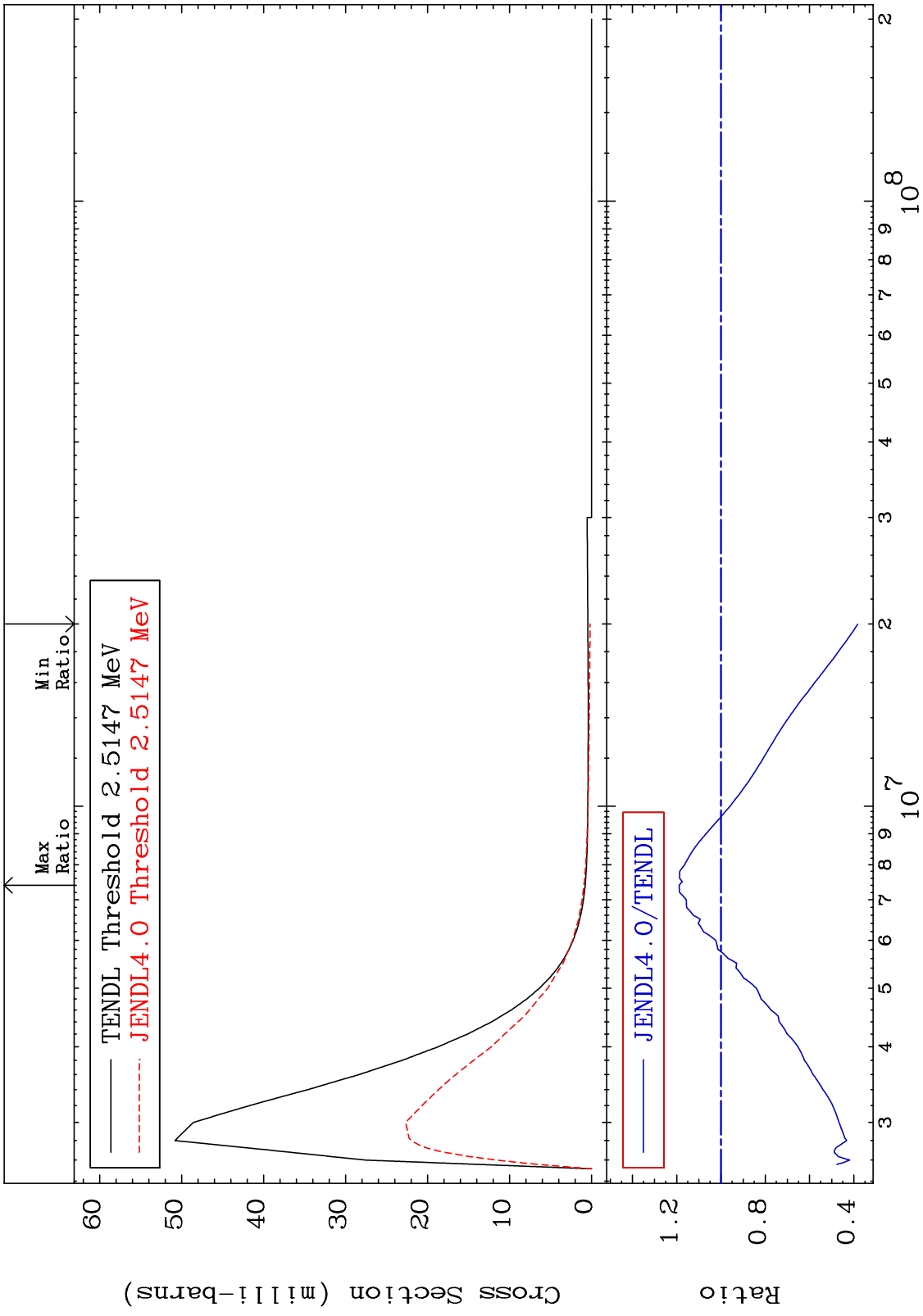


MAT 4625 MT= 69 (n,n') Level Cross Section 46-Pd-102 -88.80 To 114.4 %

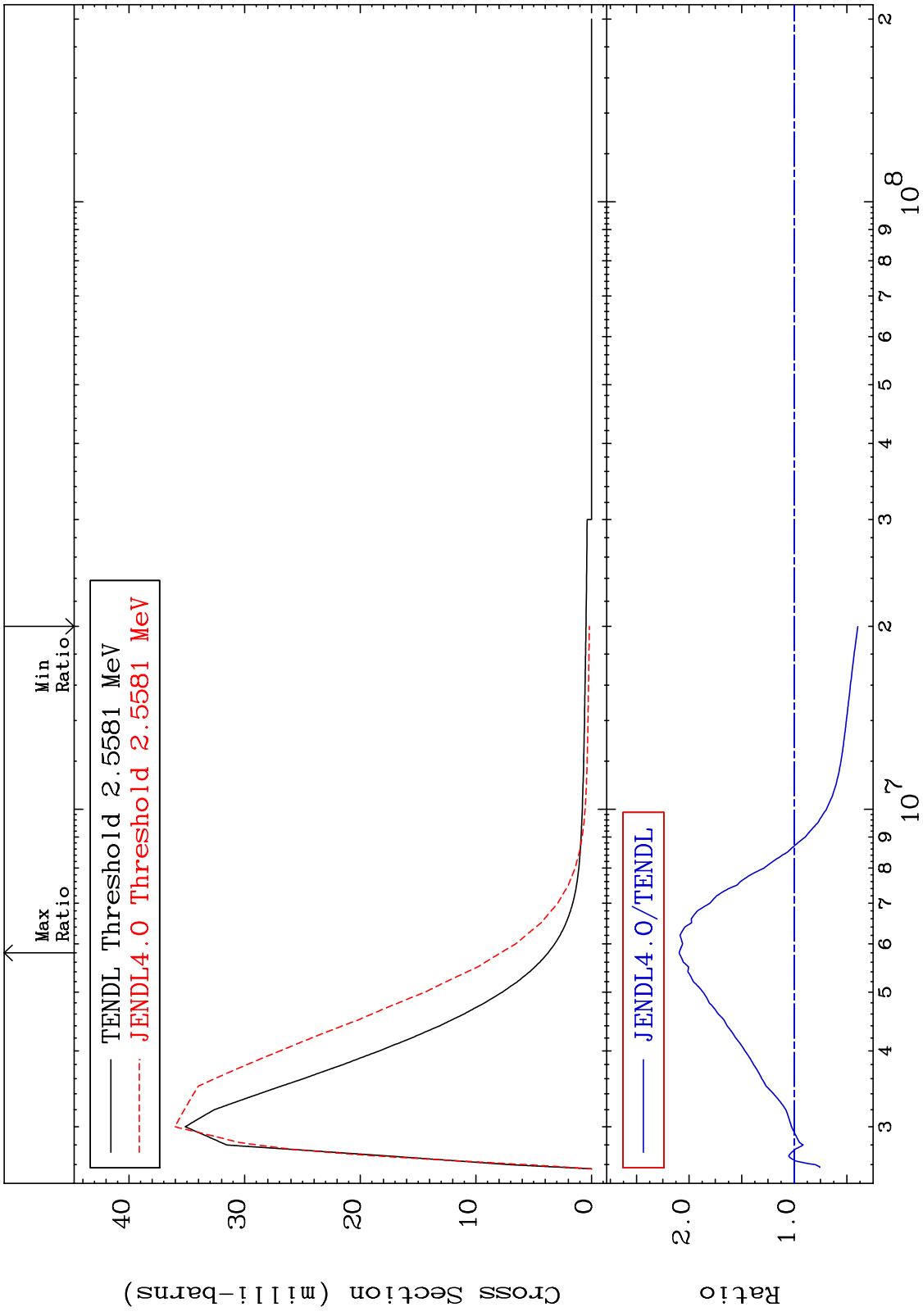


29 46-Pd-102

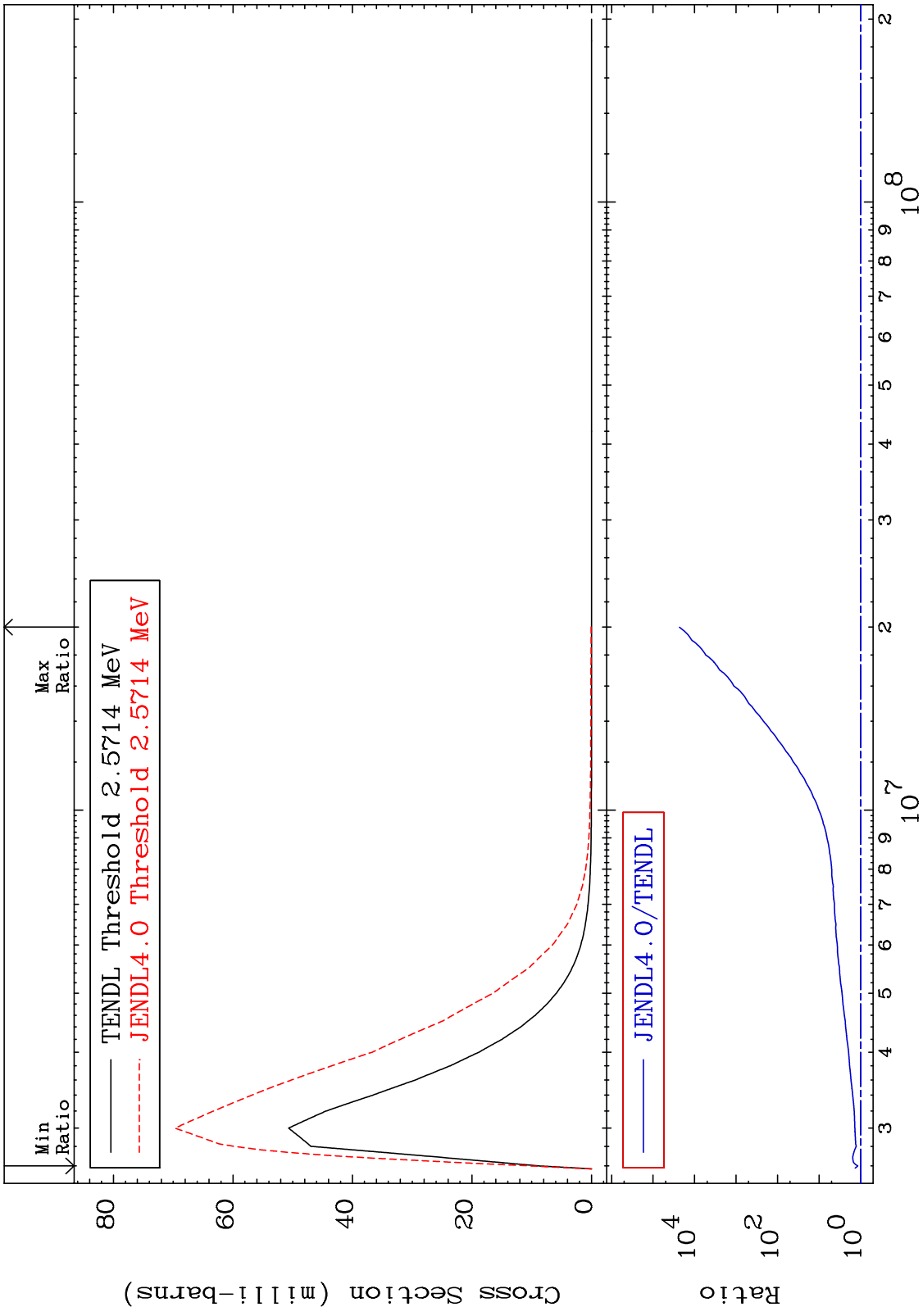
MAT 4625 MT= 70 (n,n') Level Cross Section 46-Pd-102 -61.80 To 18.96 %



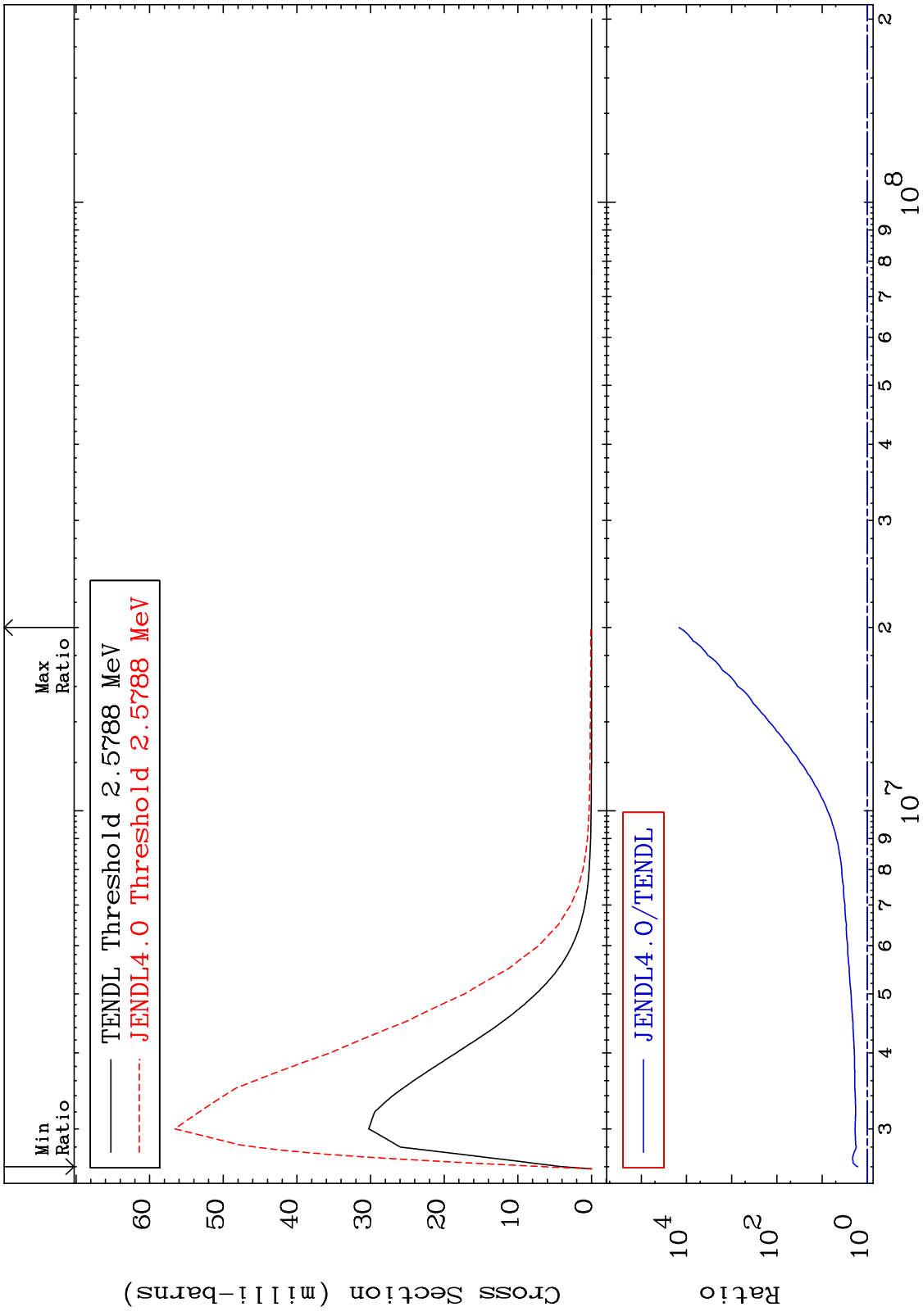
MAT 4625 MT= 71 (n,n') Level Cross Section 46-Pd-102
 -60.51 To 109.6 %



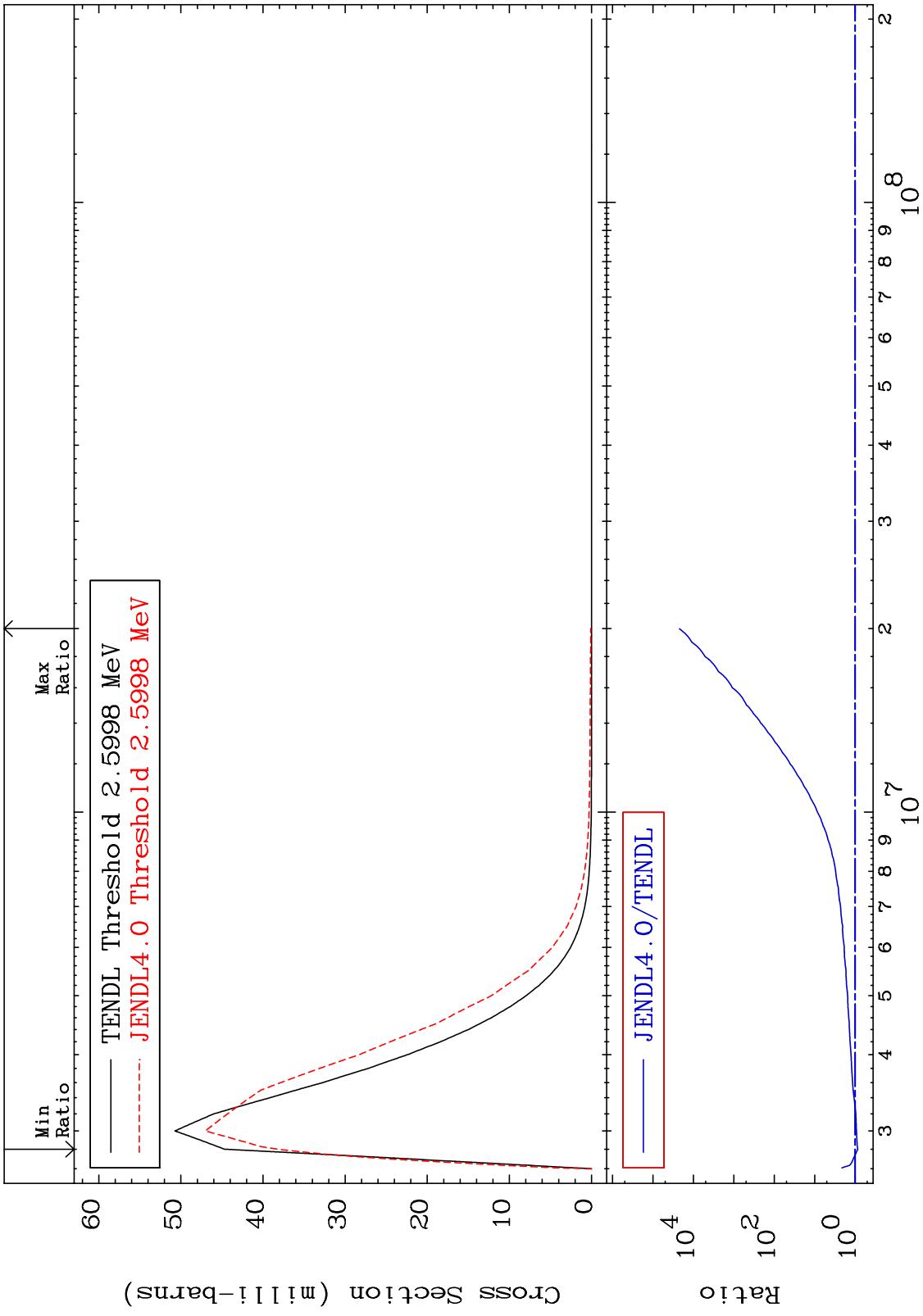
MAT 4625 MT= 72 (n,n') Level Cross Section 46-Pd-102
 16.50 To 9999. %



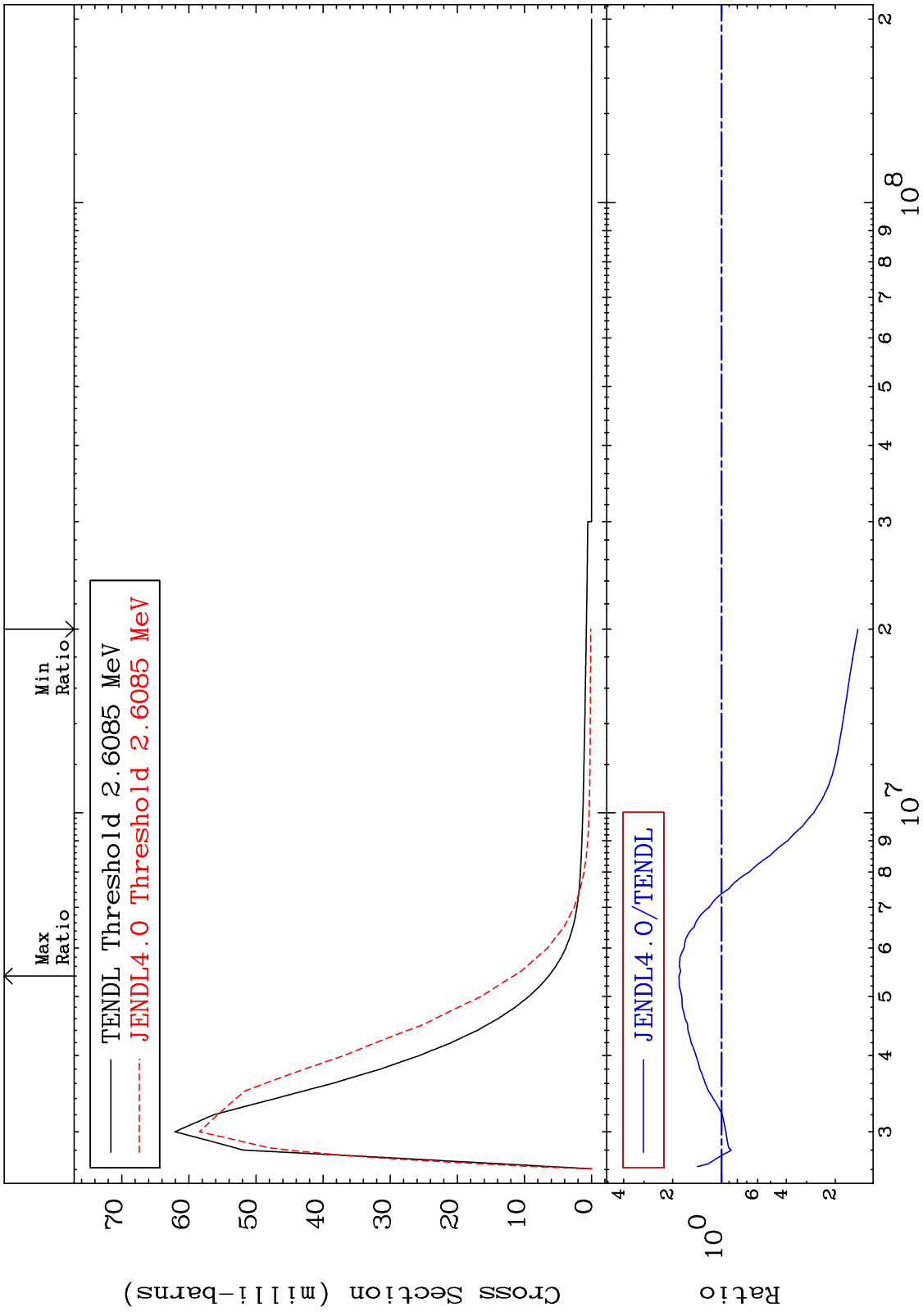
MAT 4625 MT= 73 (n,n') Level Cross Section 46-Pd-102
 61.95 To 9999. %



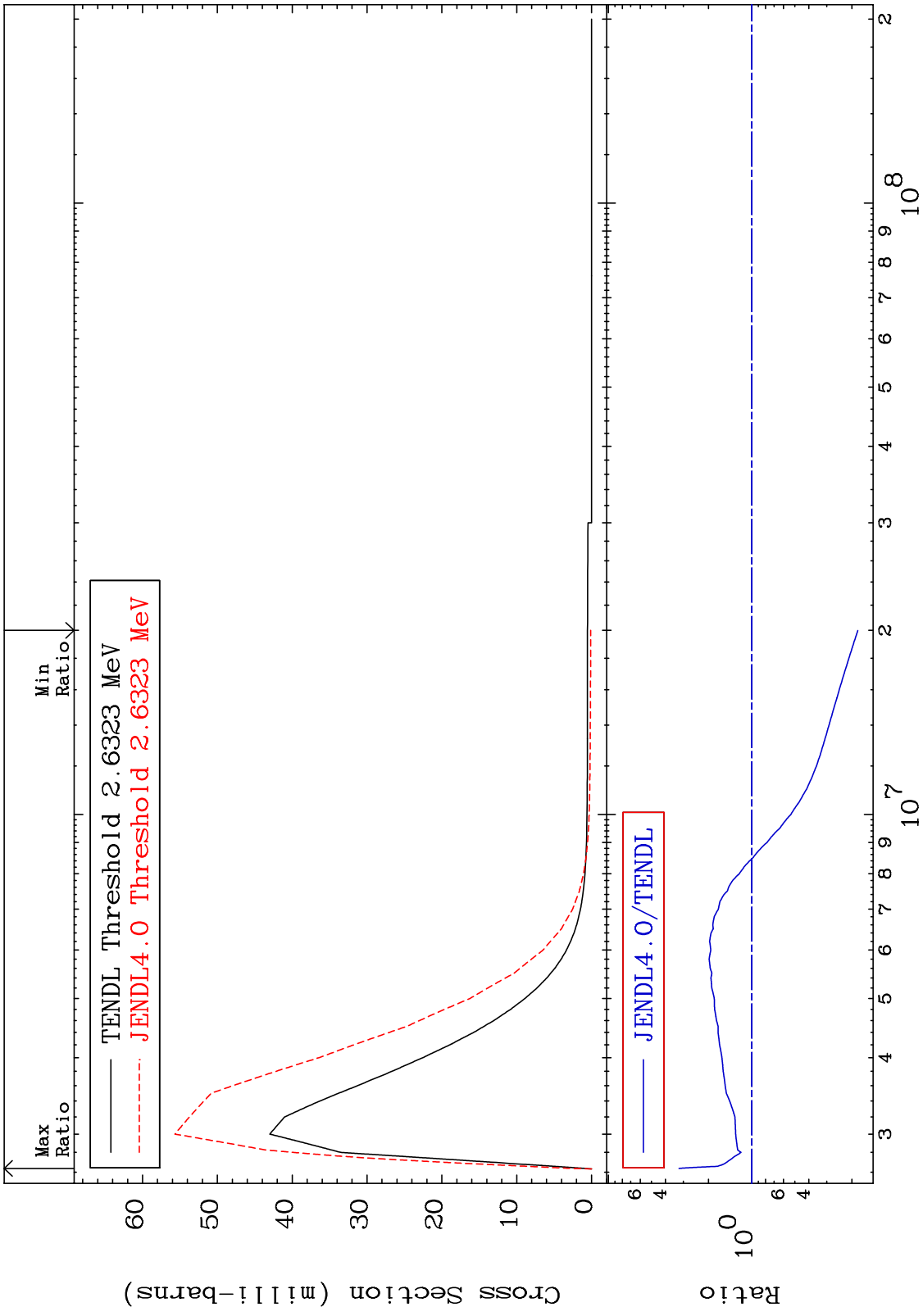
MAT 4625 MT= 74 (n,n') Level Cross Section 46-Pd-102
 -14.42 To 9999. %



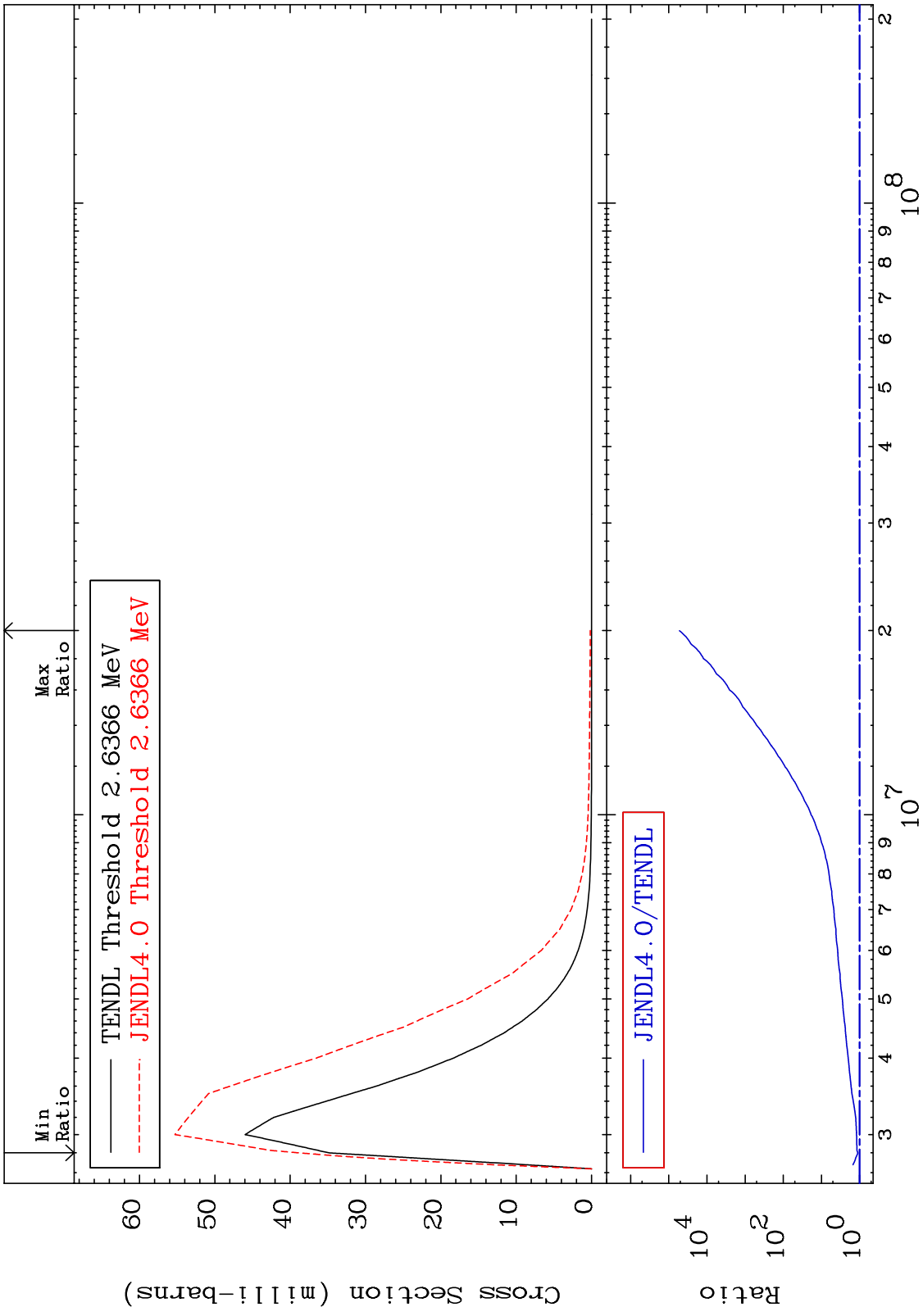
MAT 4625 MT= 75 (n,n') Level Cross Section 46-Pd-102
 -85.49 To 82.54 %



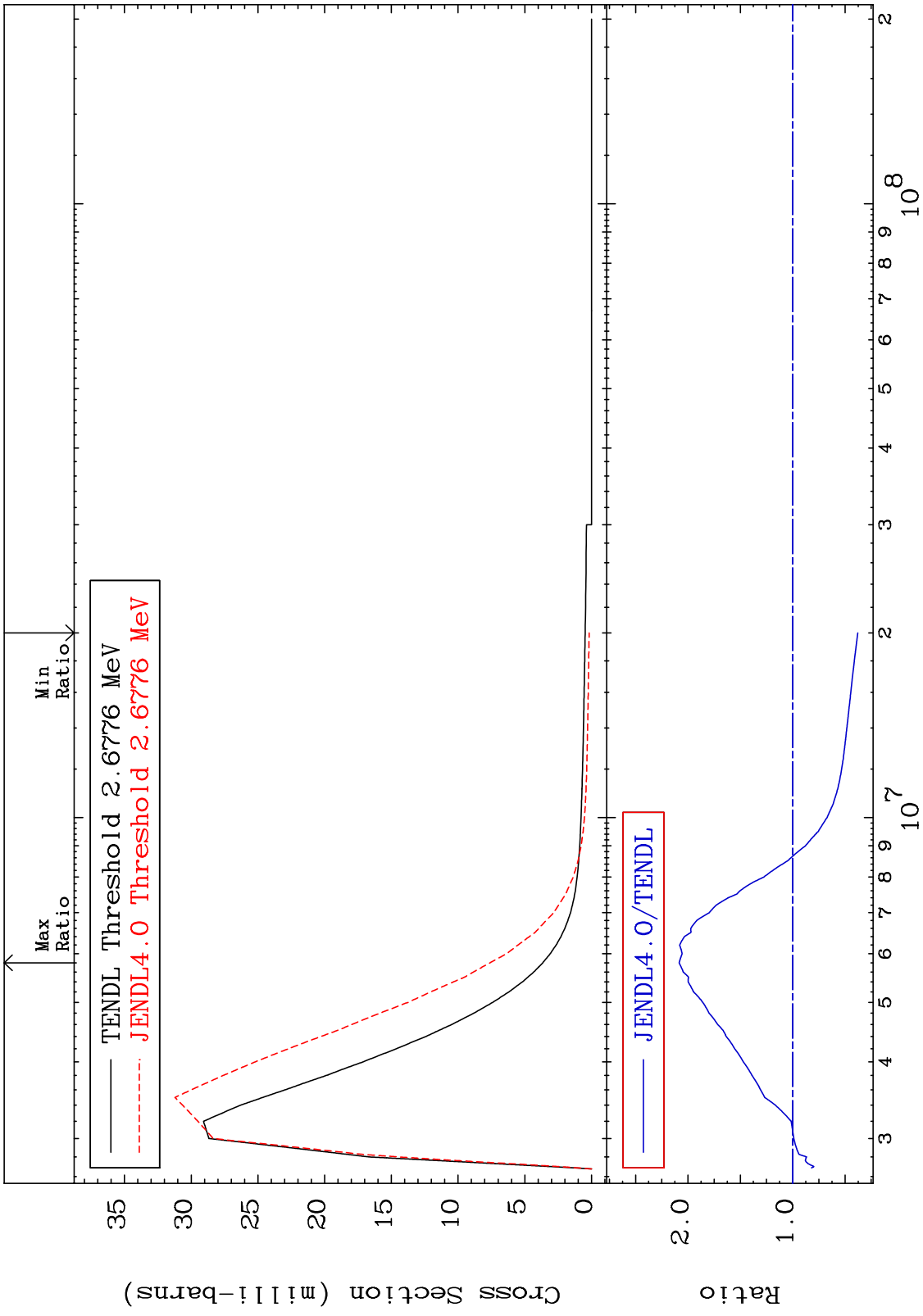
MAT 4625 MT= 76 (n,n') Level Cross Section 46-Pd-102
 -81.80 To 221.4 %



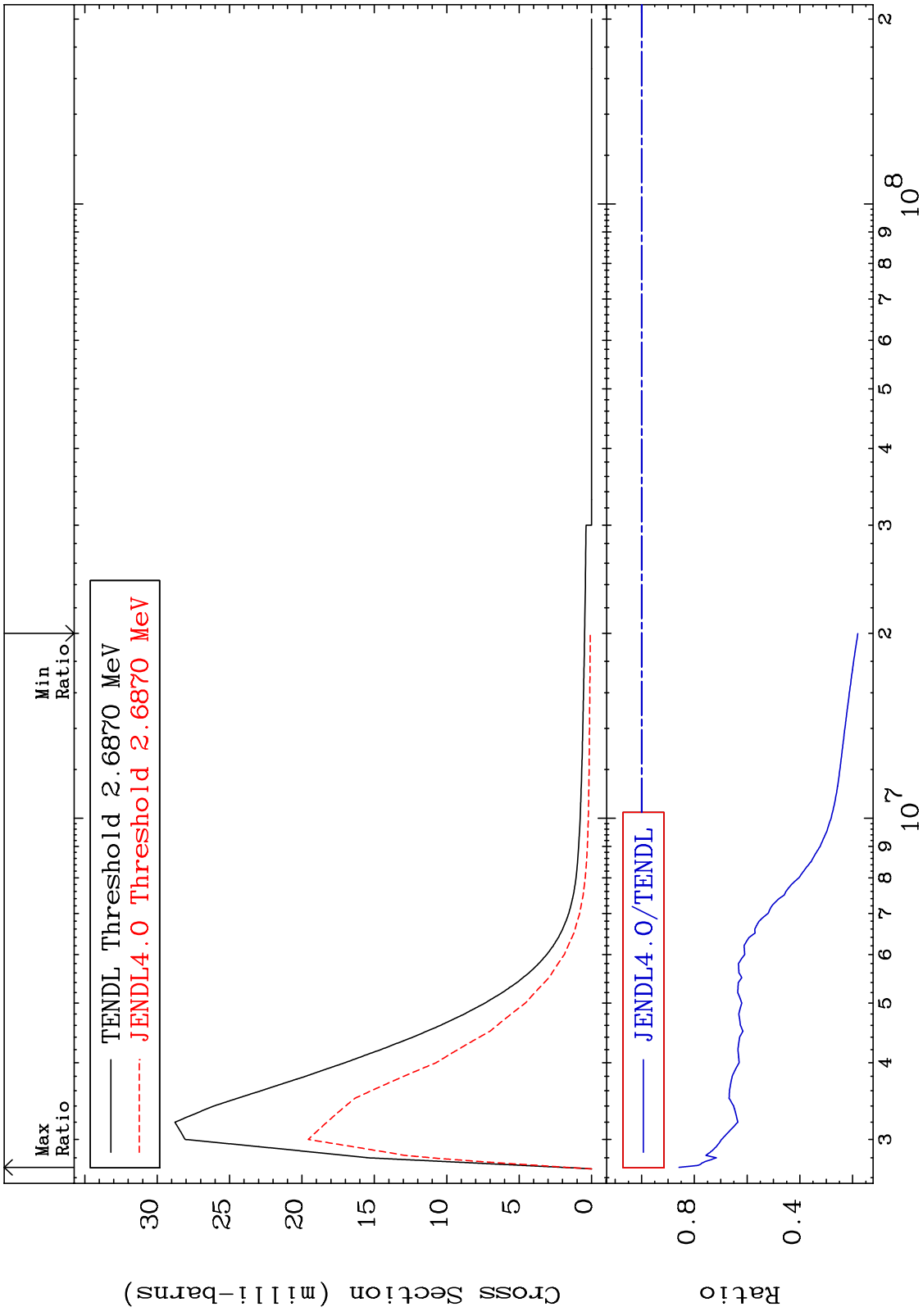
MAT 4625 MT= 77 (n,n') Level Cross Section 46-Pd-102 To 9999. %
 11.38



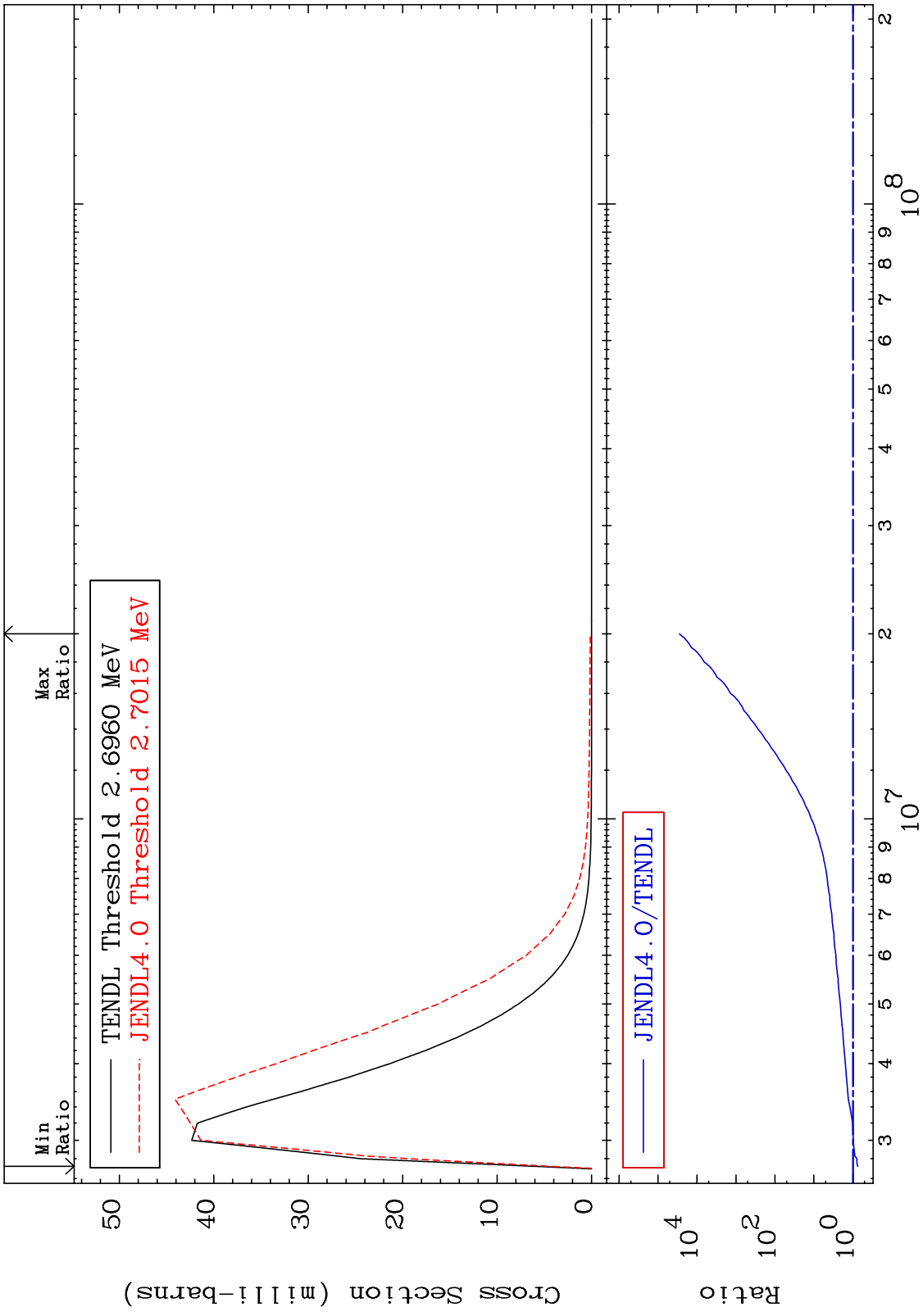
MAT 4625 MT= 78 (n,n') Level Cross Section 46-Pd-102 -62.23 To 108.5 %



MAT 4625 MT= 79 (n,n') Level Cross Section 46-Pd-102 -81.98 To -14.20%



MAT 4625 MT= 80 (n,n') Level Cross Section 46-Pd-102
 -25.41 To 9999. %

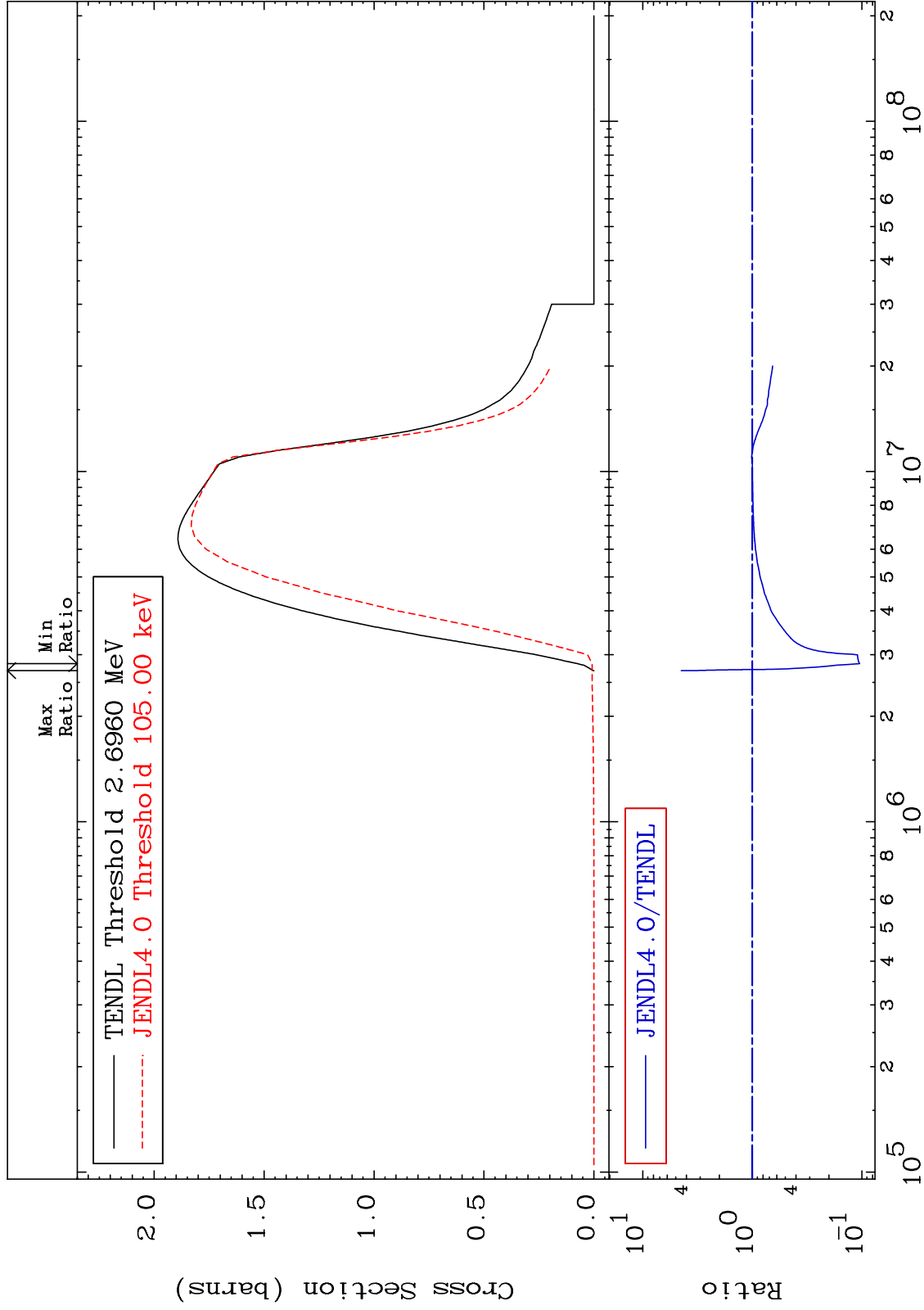


40 Incident Energy (eV) 46-Pd-102

MAT 4625

(n, n') Continuum
Cross Section

46-Pd-102
-89.53 To 346.1 %



41

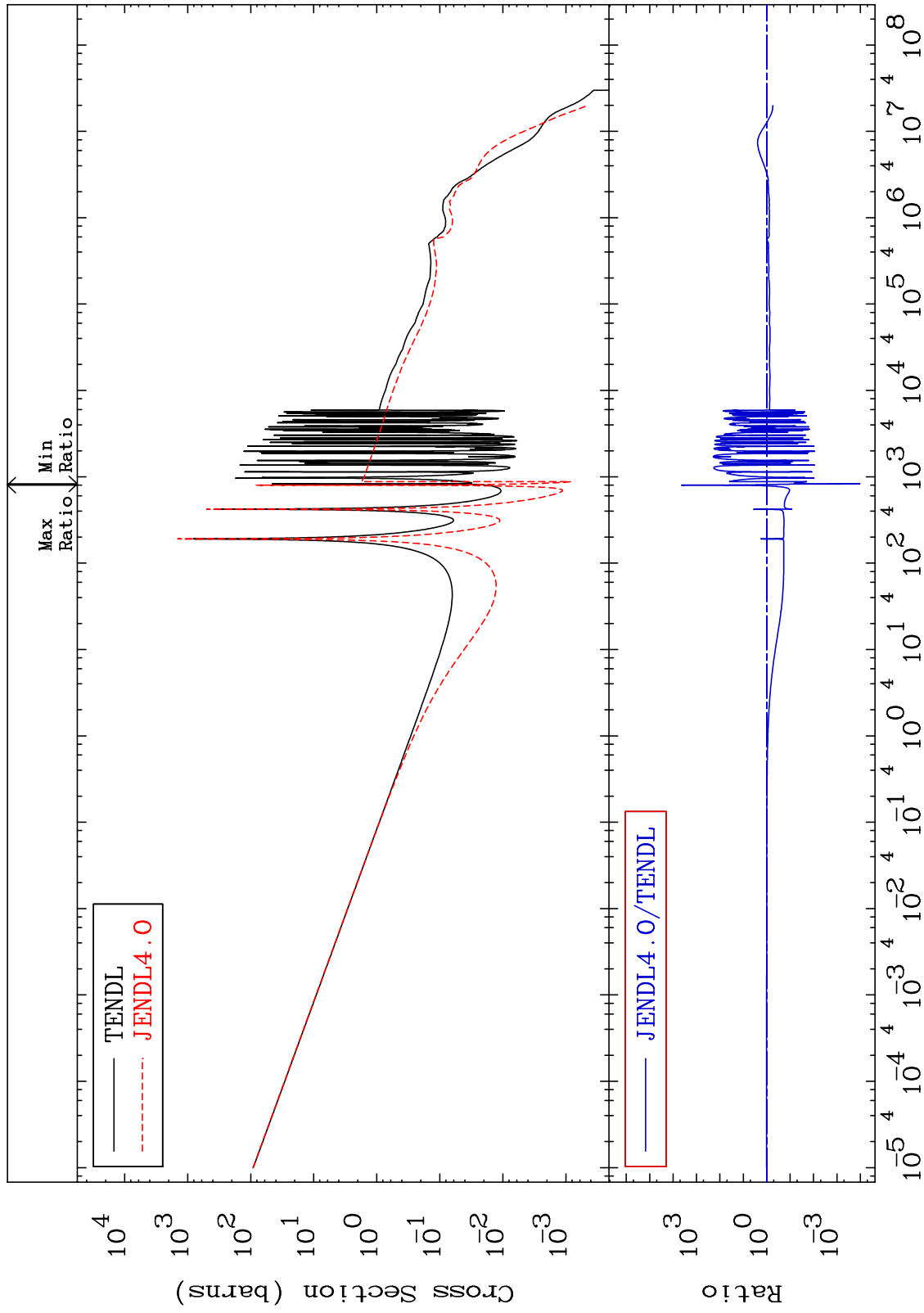
Incident Energy (eV)

46-Pd-102

MAT 4625

(n, γ)
Cross Section

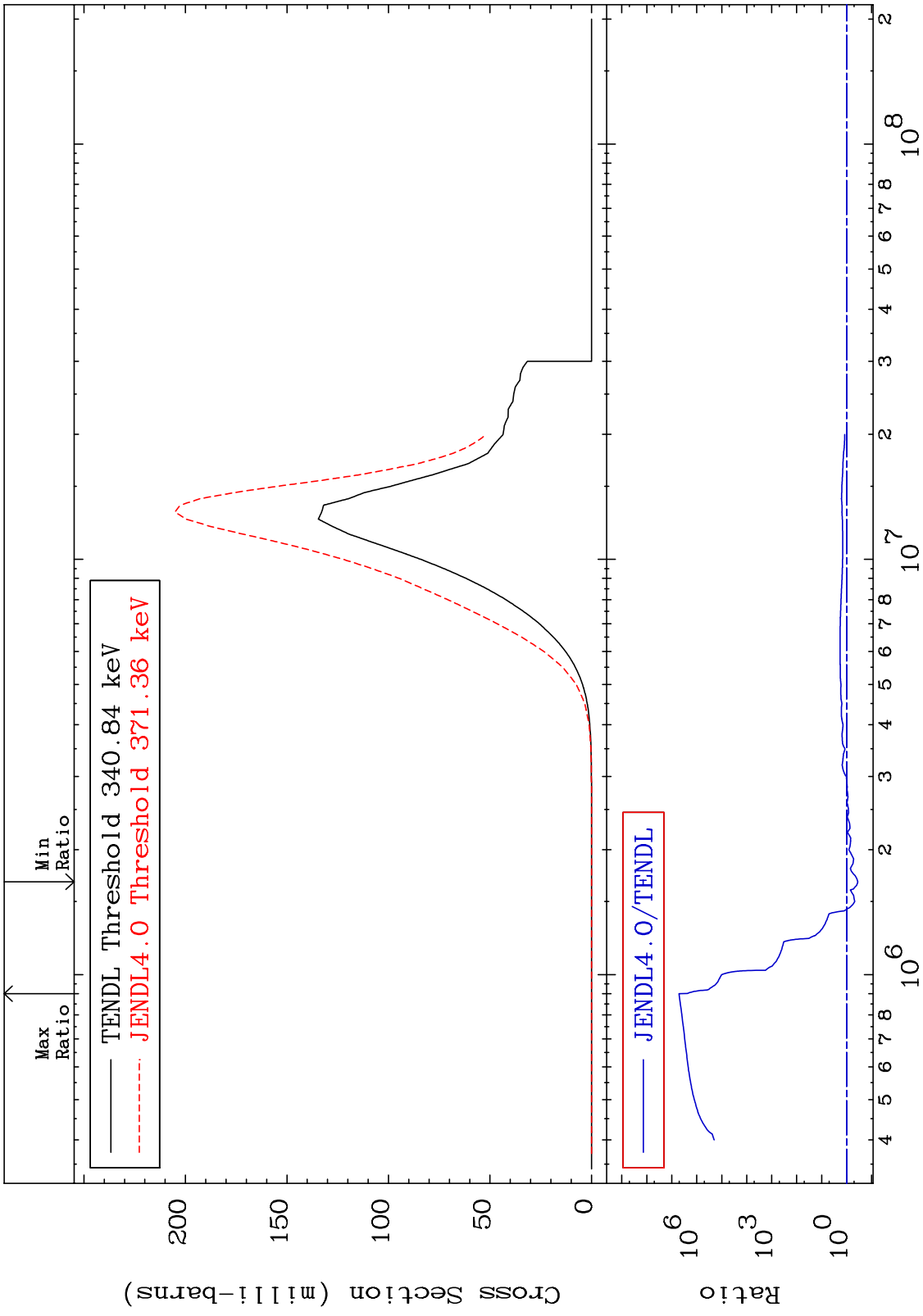
46-Pd-102
-99.99 To 9999. %



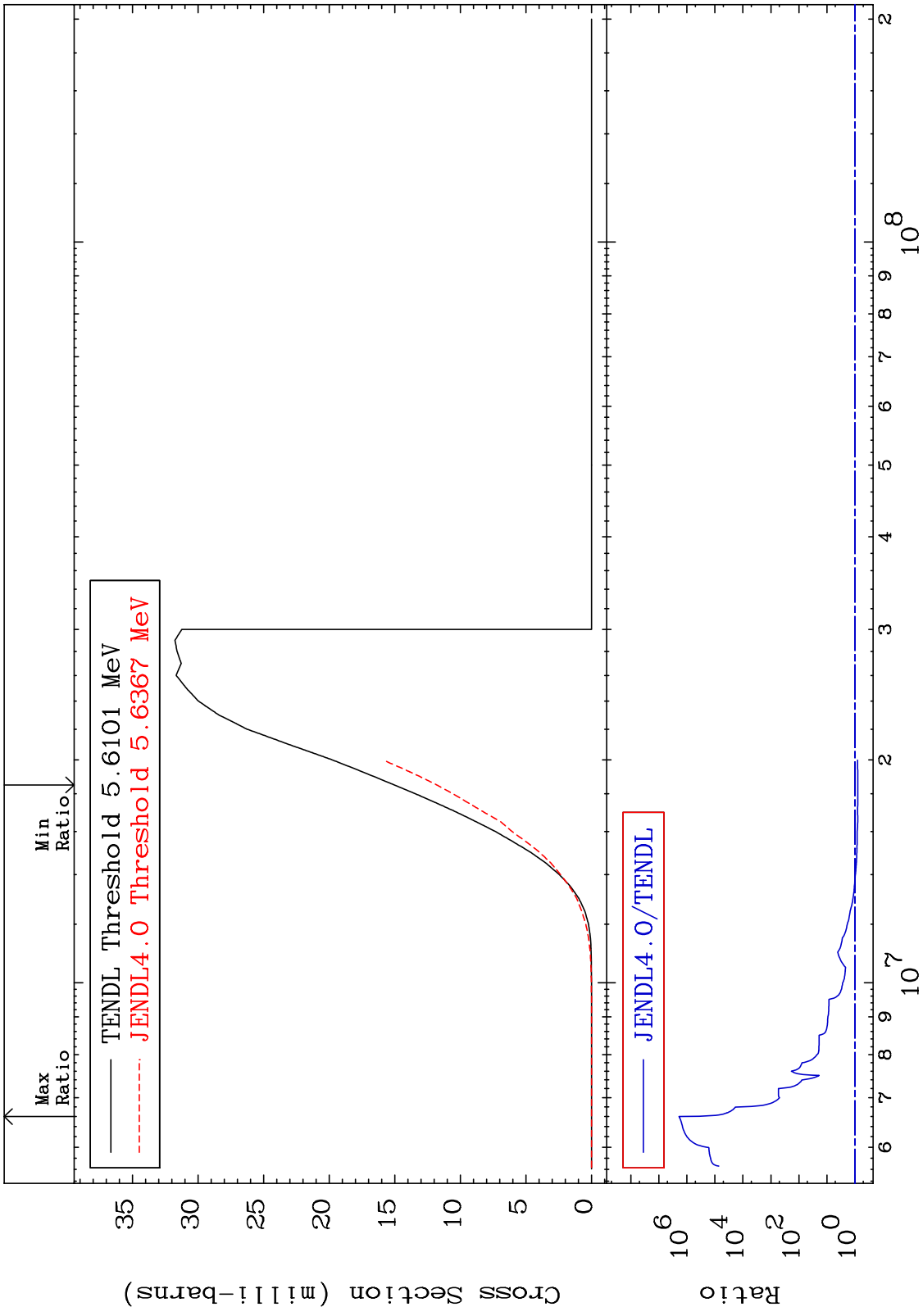
42

Incident Energy (eV)

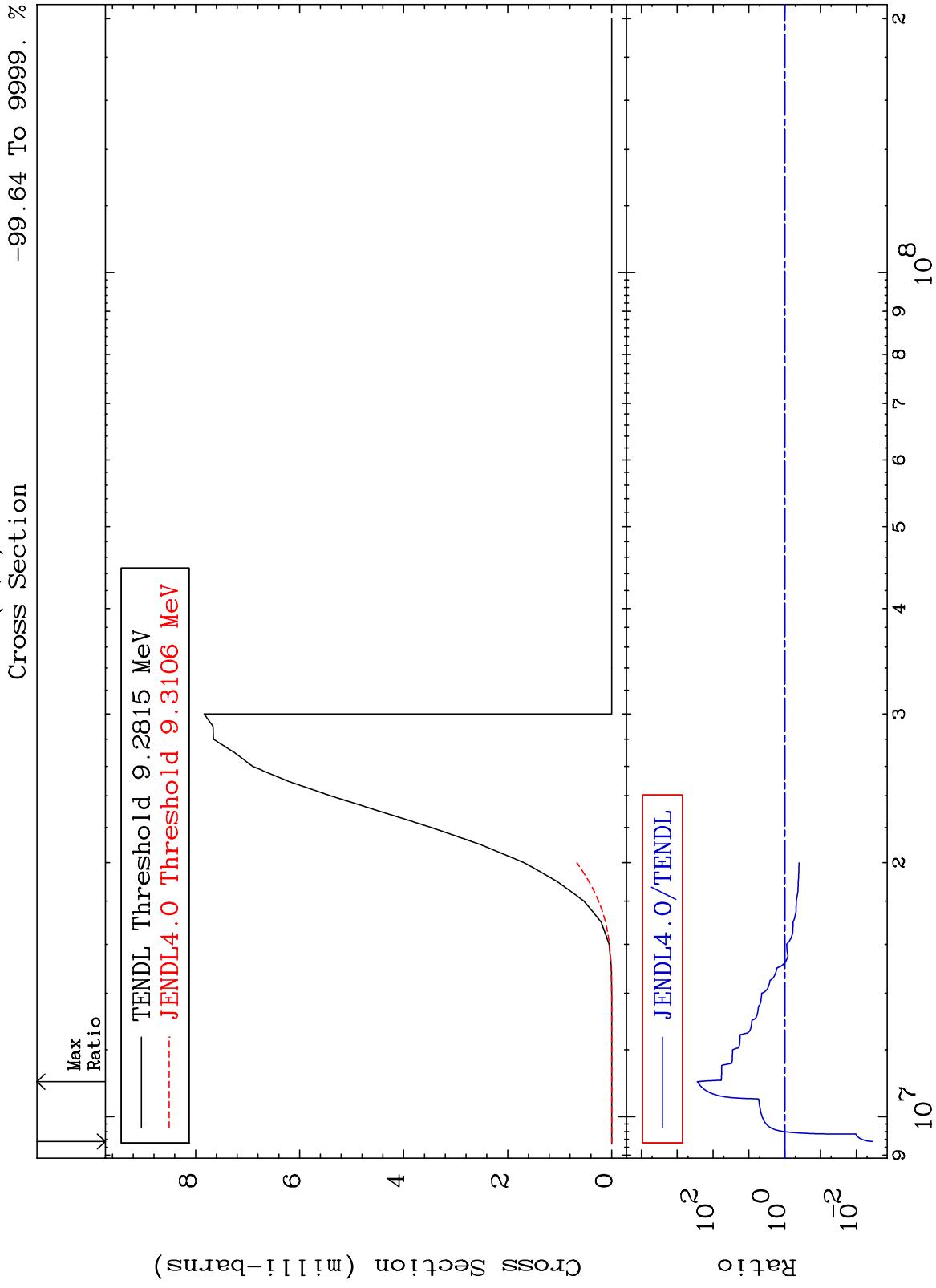
46-Pd-102



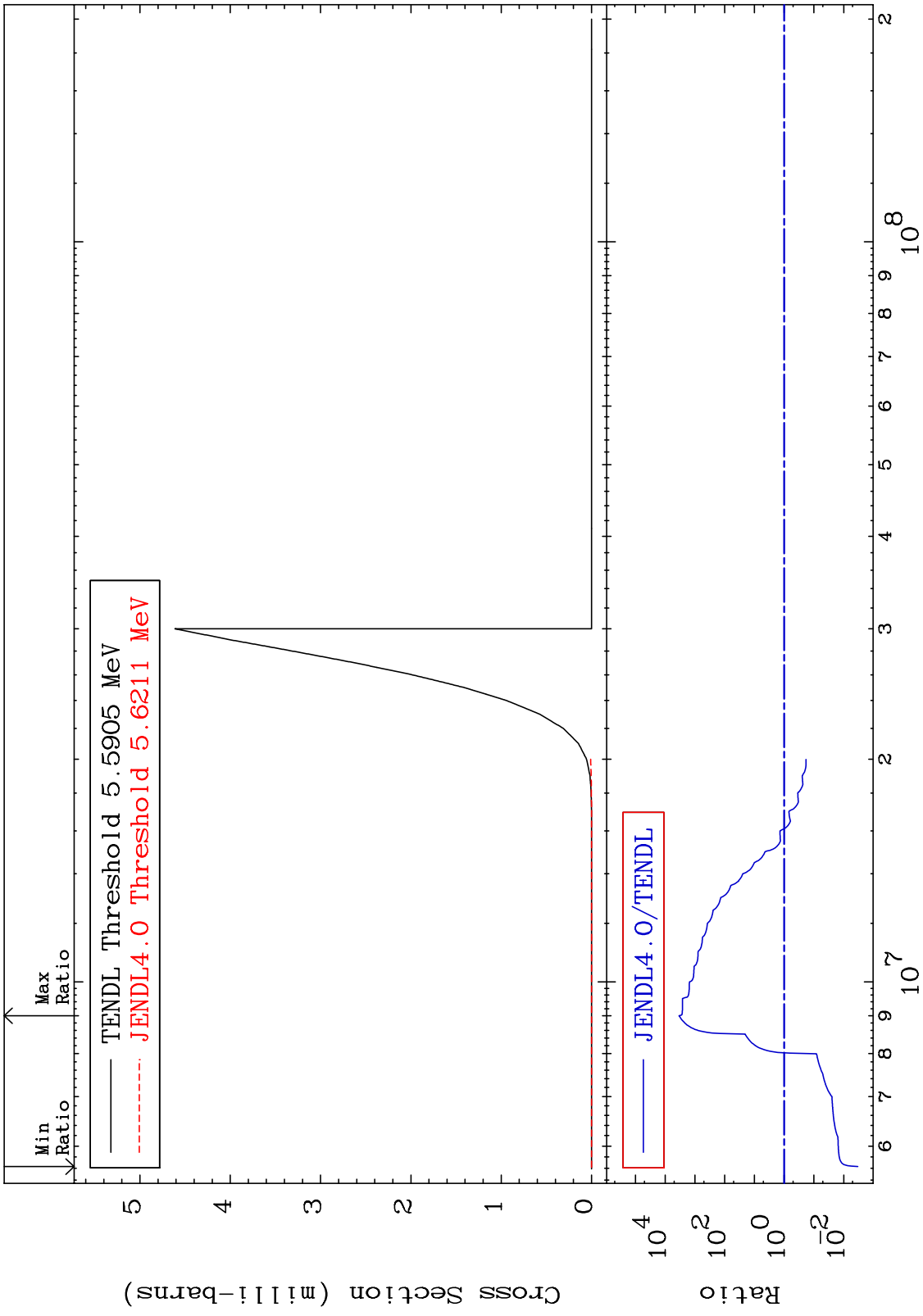
MAT 4625 (n,d) Cross Section 46-Pd-102
 -21.50 To 9999. %



MAT 4625 (n,t) 46-Pd-102 -99.64 To 9999. %



45 46-Pd-102



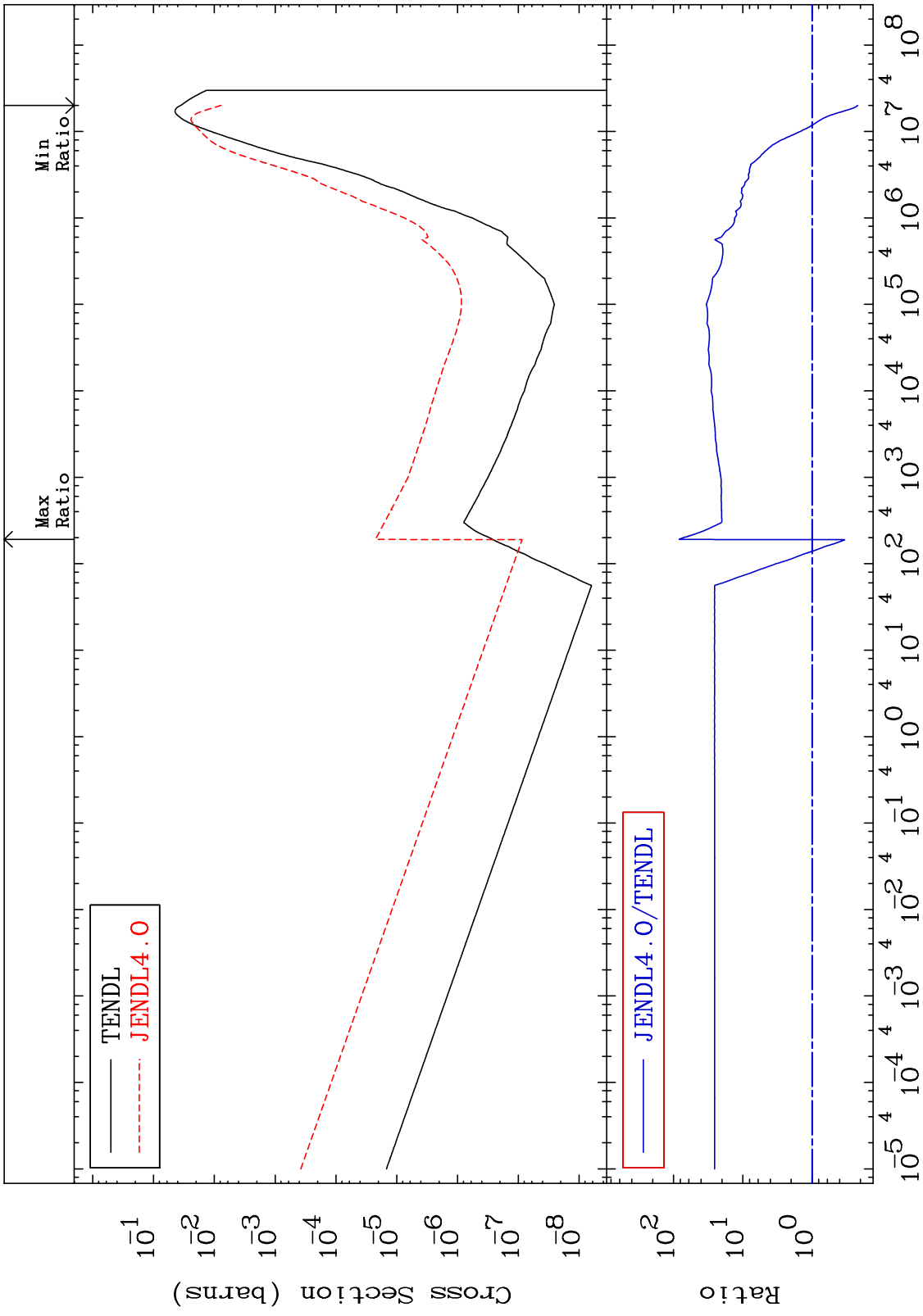
MAT 4625

(n, α)

46-Pd-102

Cross Section

-78.18 To 8230. %



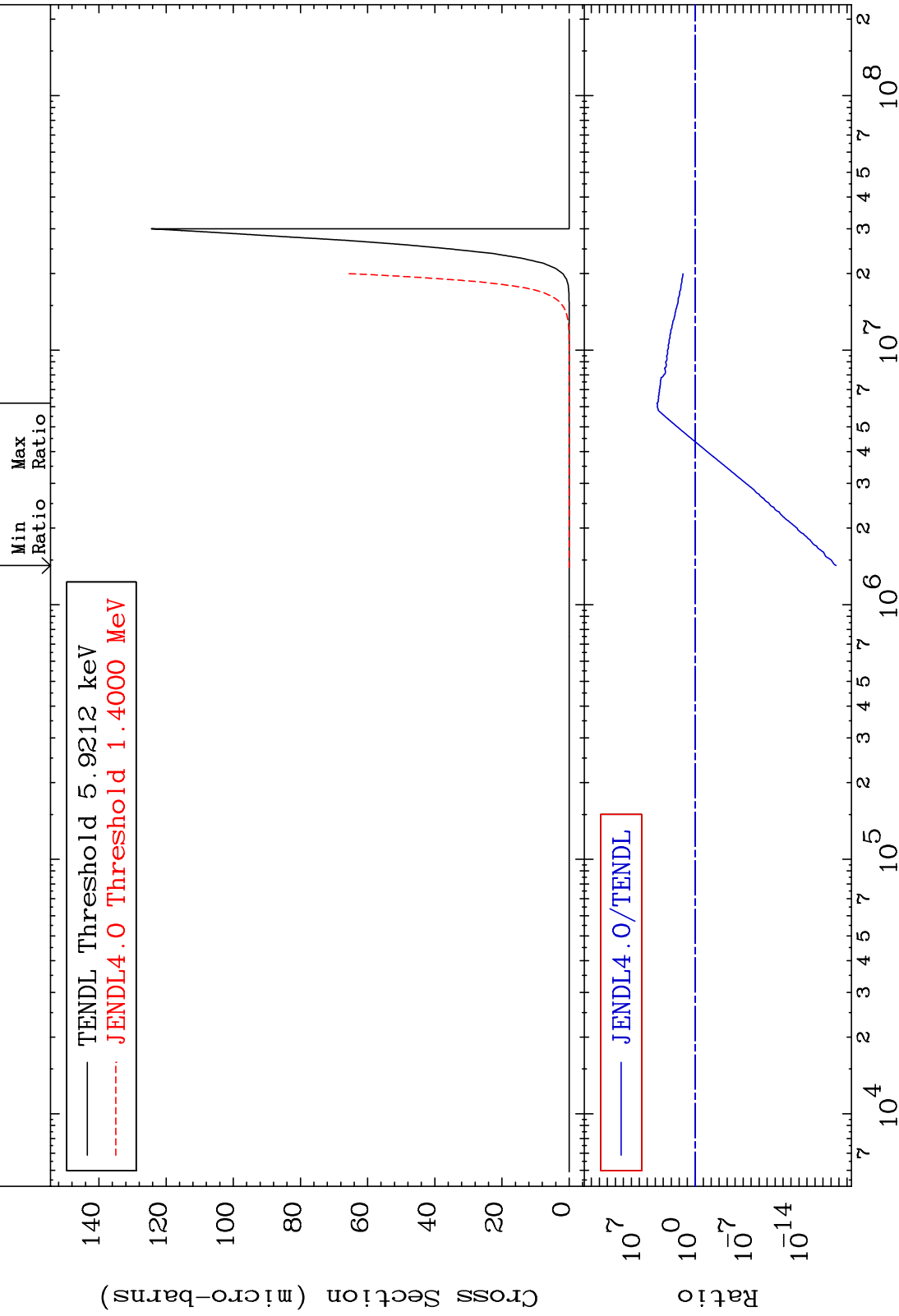
MAT 4625

(n,2α)

46-Pd-102

-100.0 To 9999. %

Cross Section

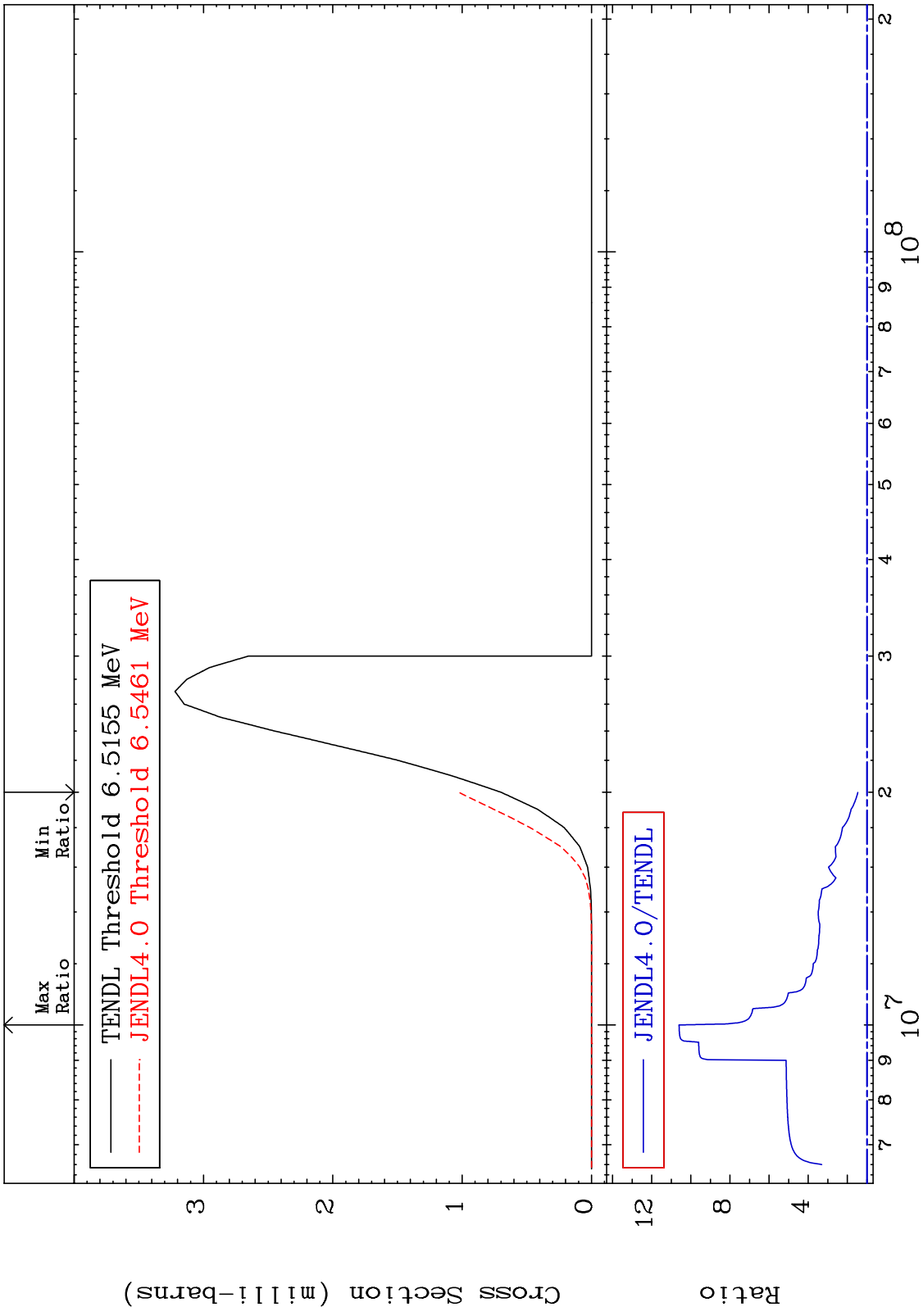


48

Incident Energy (eV)

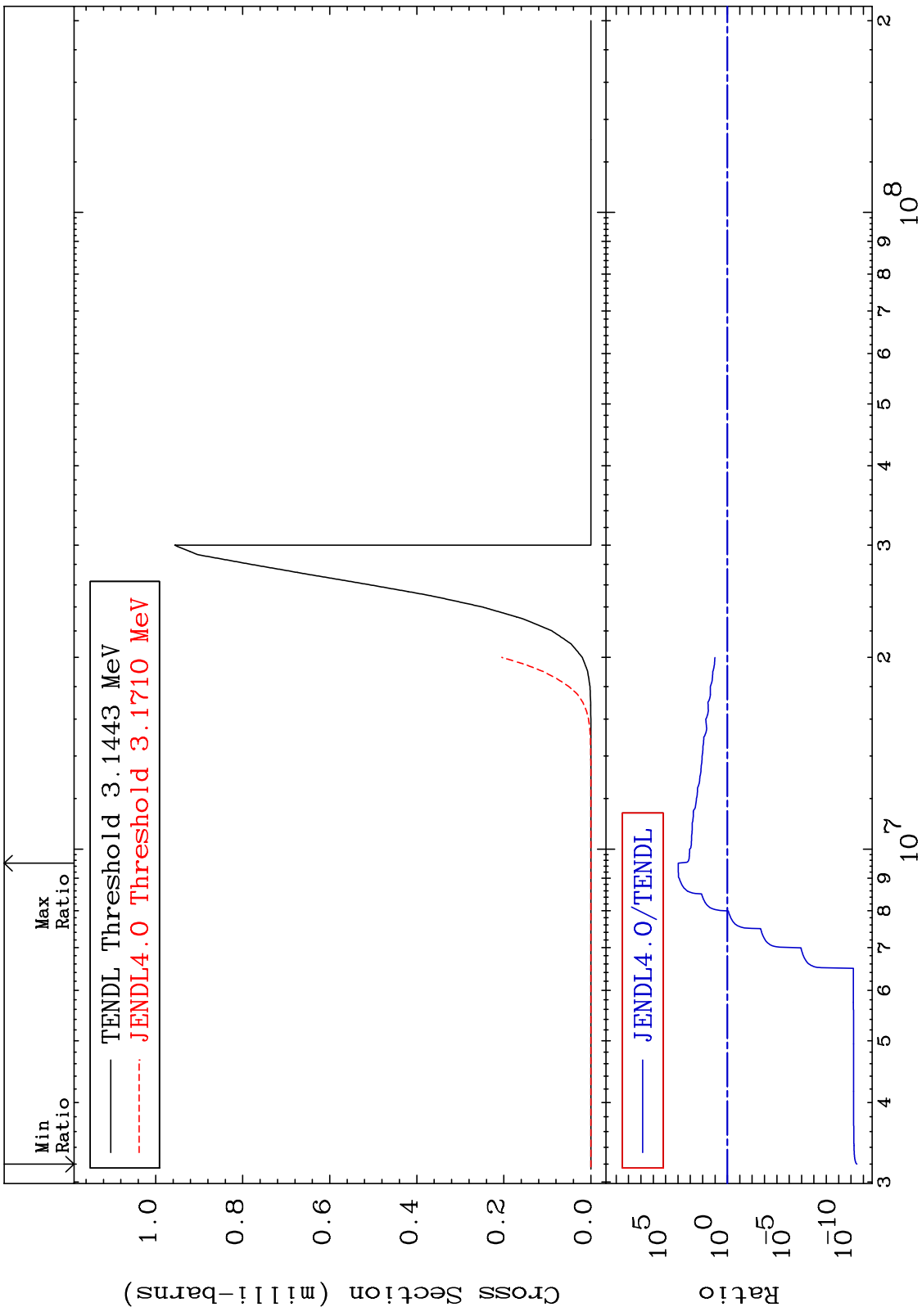
46-Pd-102

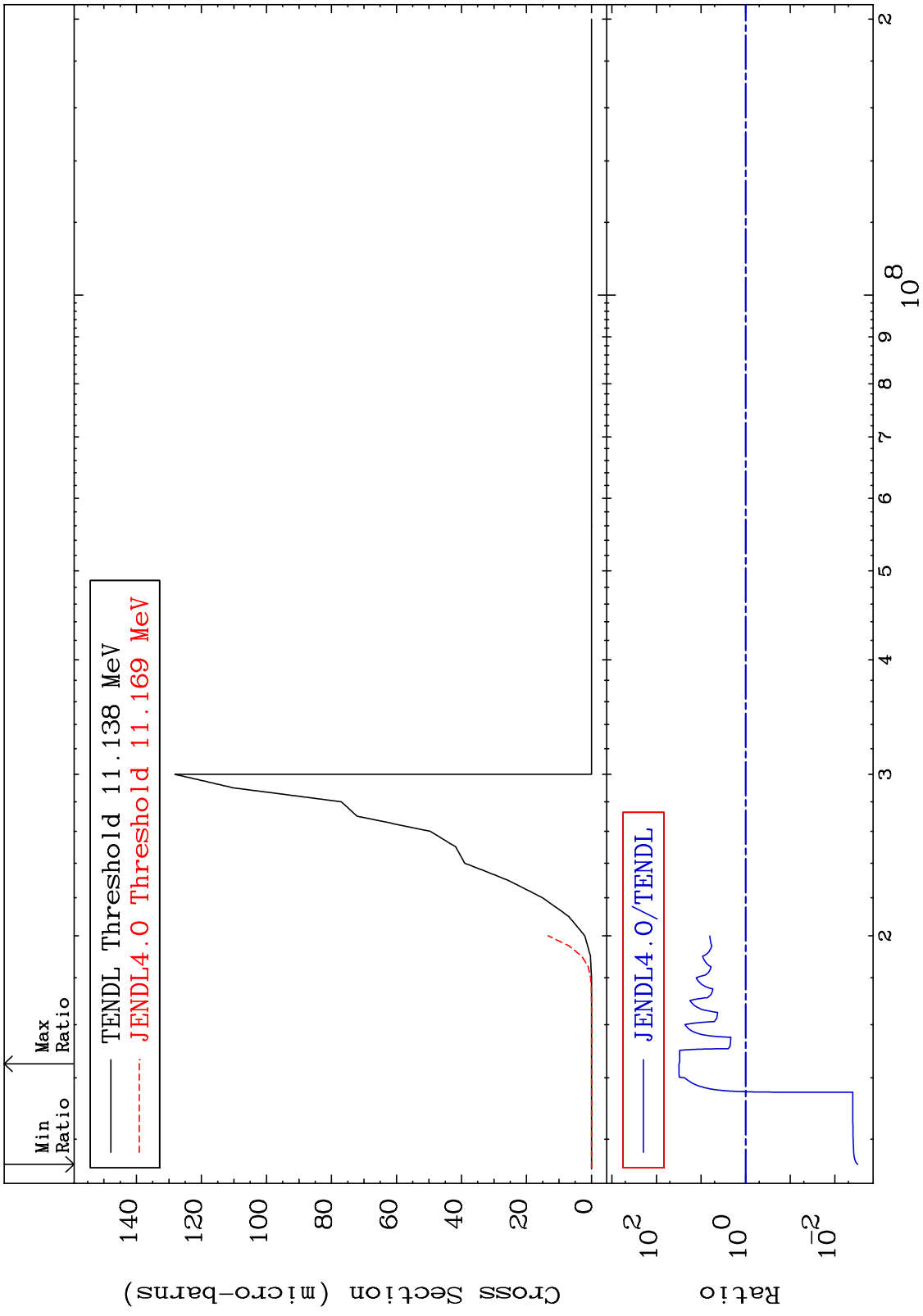
MAT 4625 (n,2p) Cross Section 46-Pd-102 To 960.2 %



49 46-Pd-102

MAT 4625 (n,p) α 46-Pd-102
 Cross Section -100.0 To 9999. %

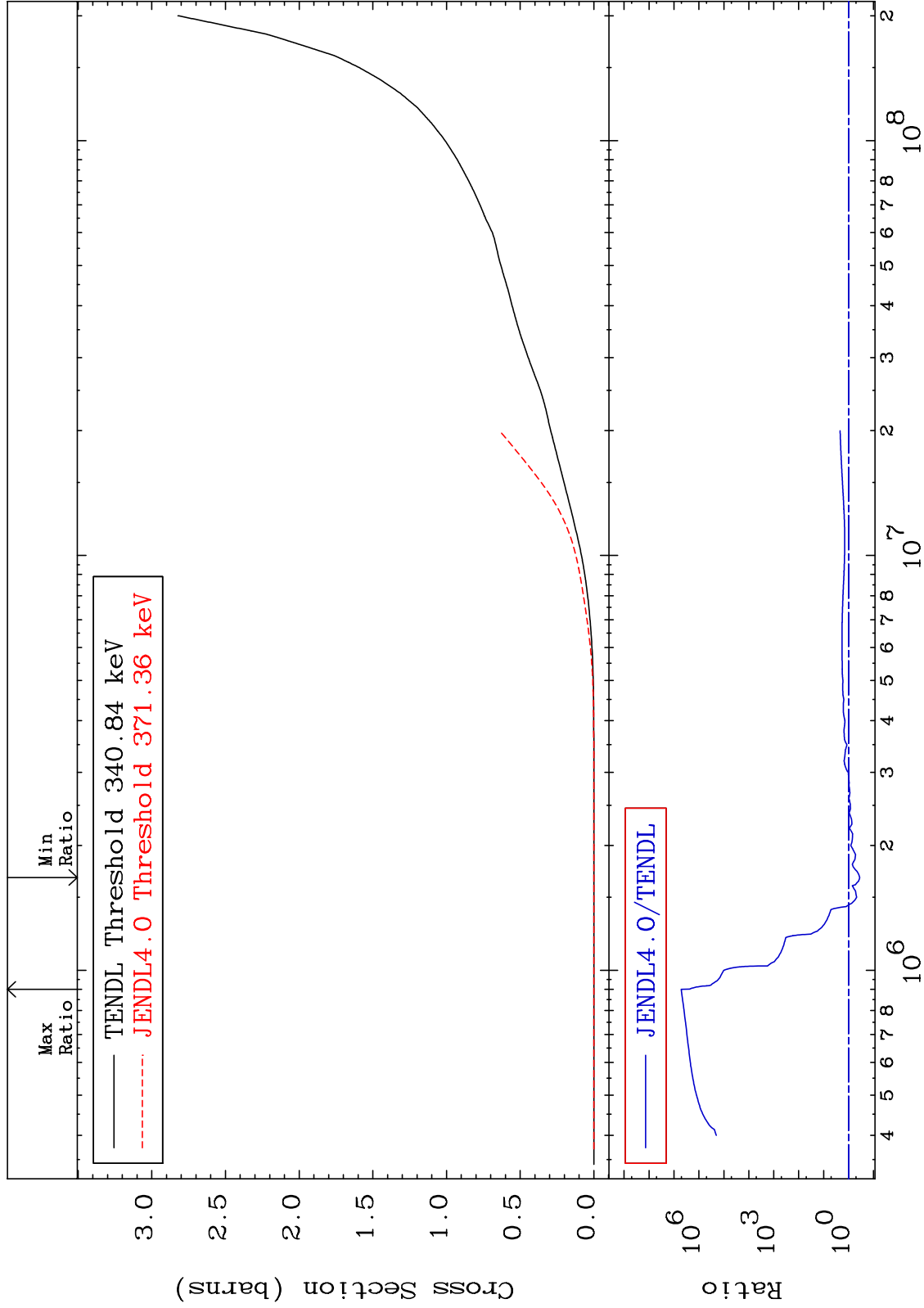


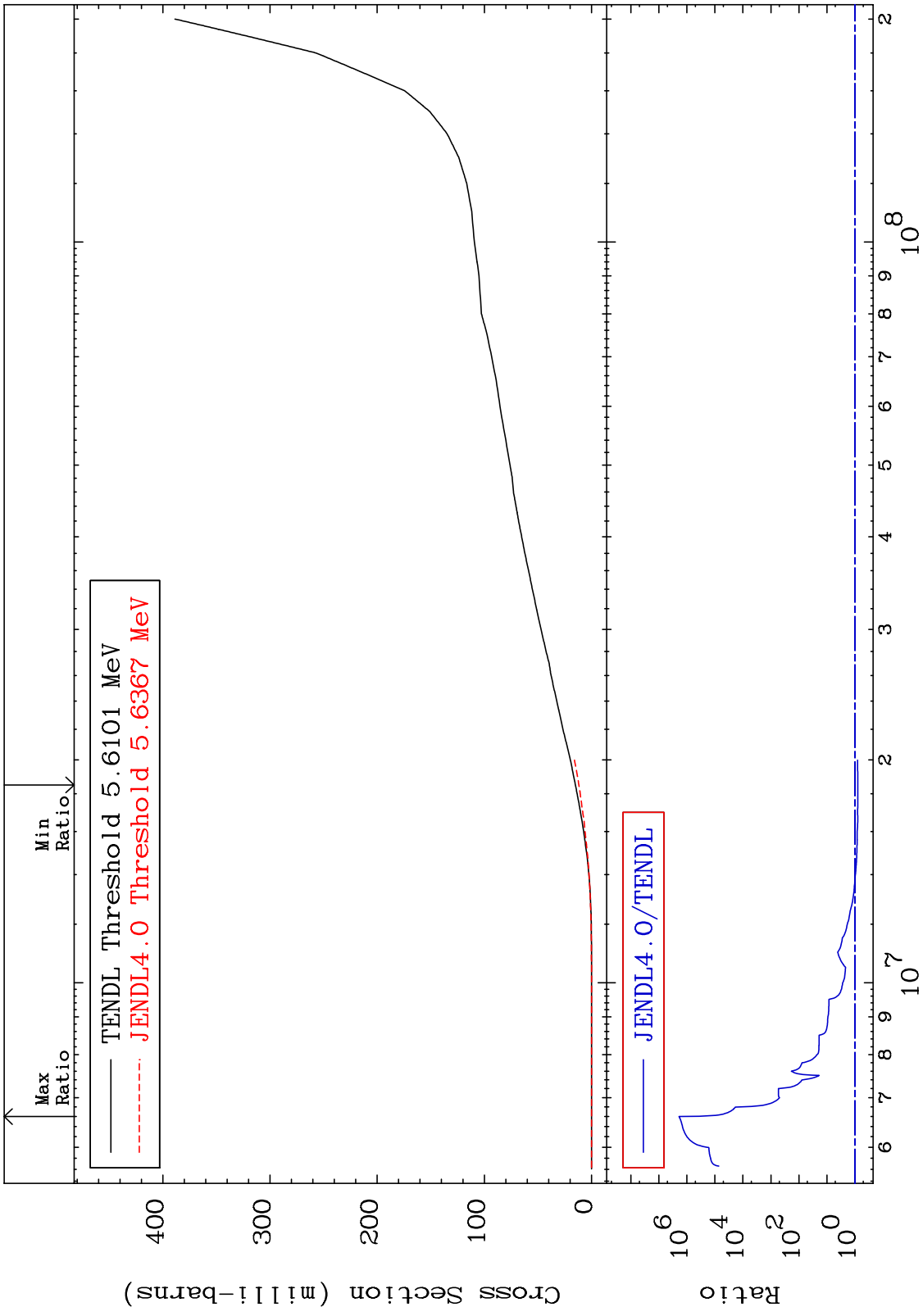


MAT 4625

Hydrogen Production Cross Section

46-Pd-102
-64.33 To 9999. %

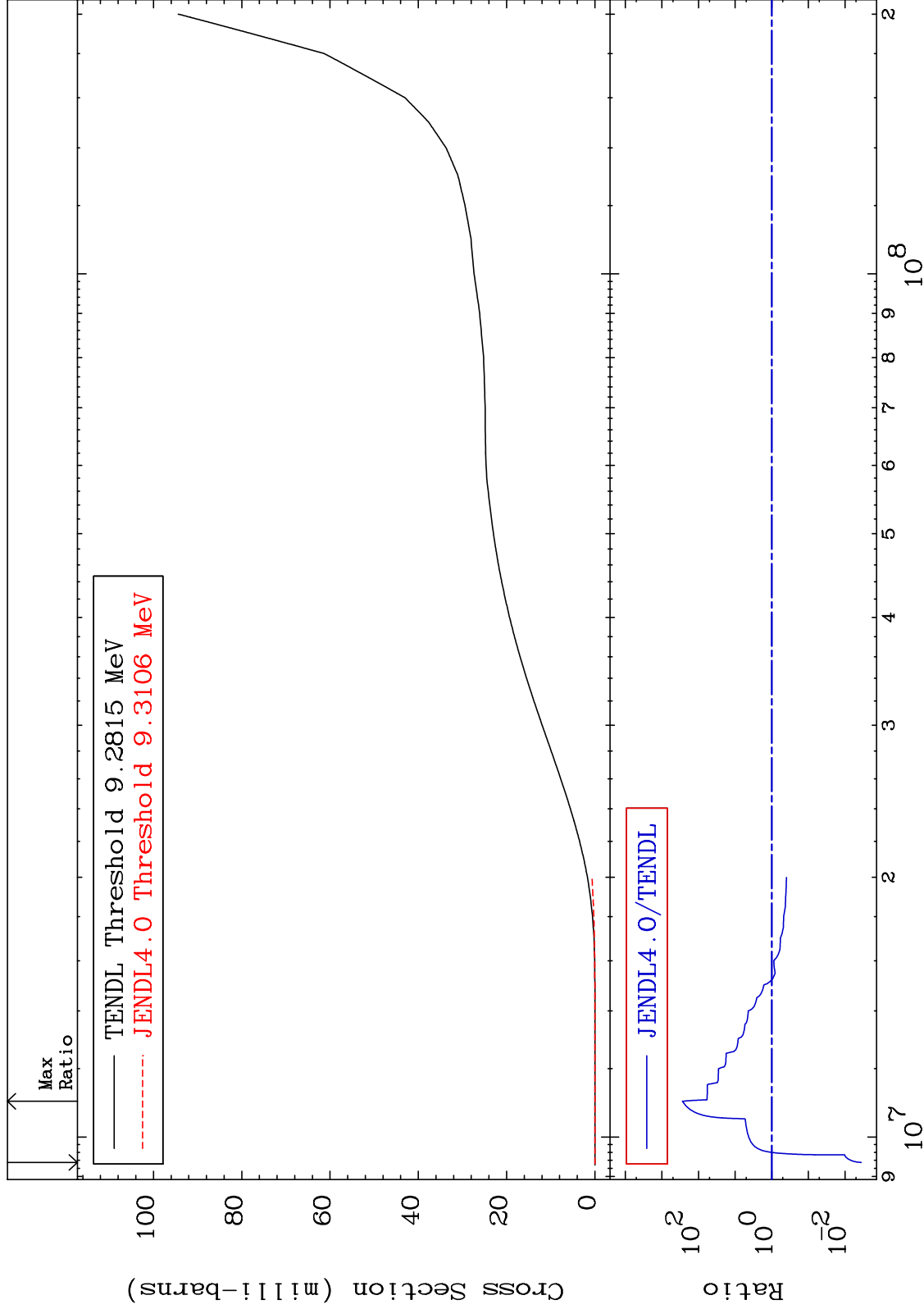




MAT 4625

Tritium Production
Cross Section

46-Pd-102
-99.64 To 9999. %



54

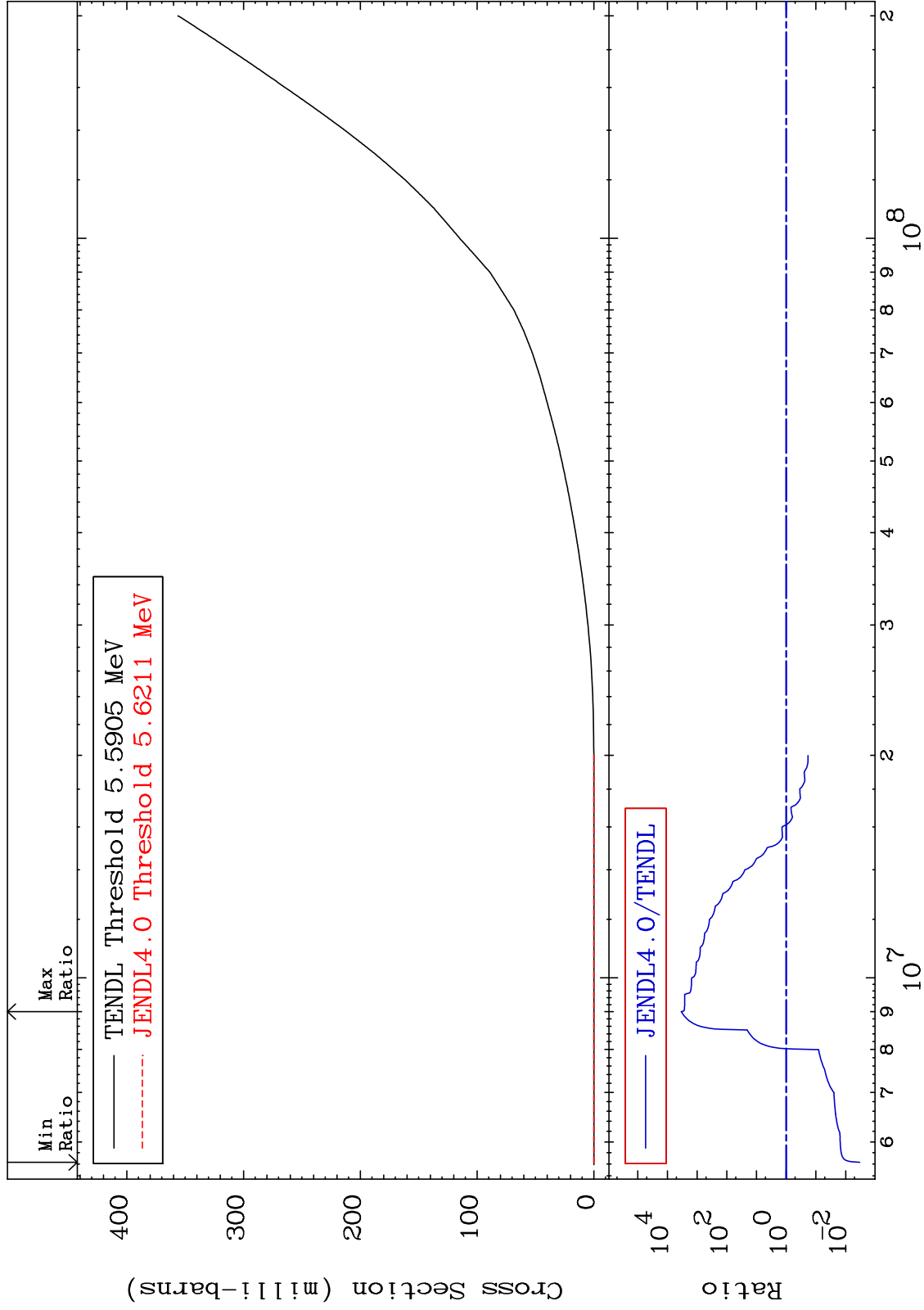
Incident Energy (eV)

46-Pd-102

MAT 4625

He-3 Production
Cross Section

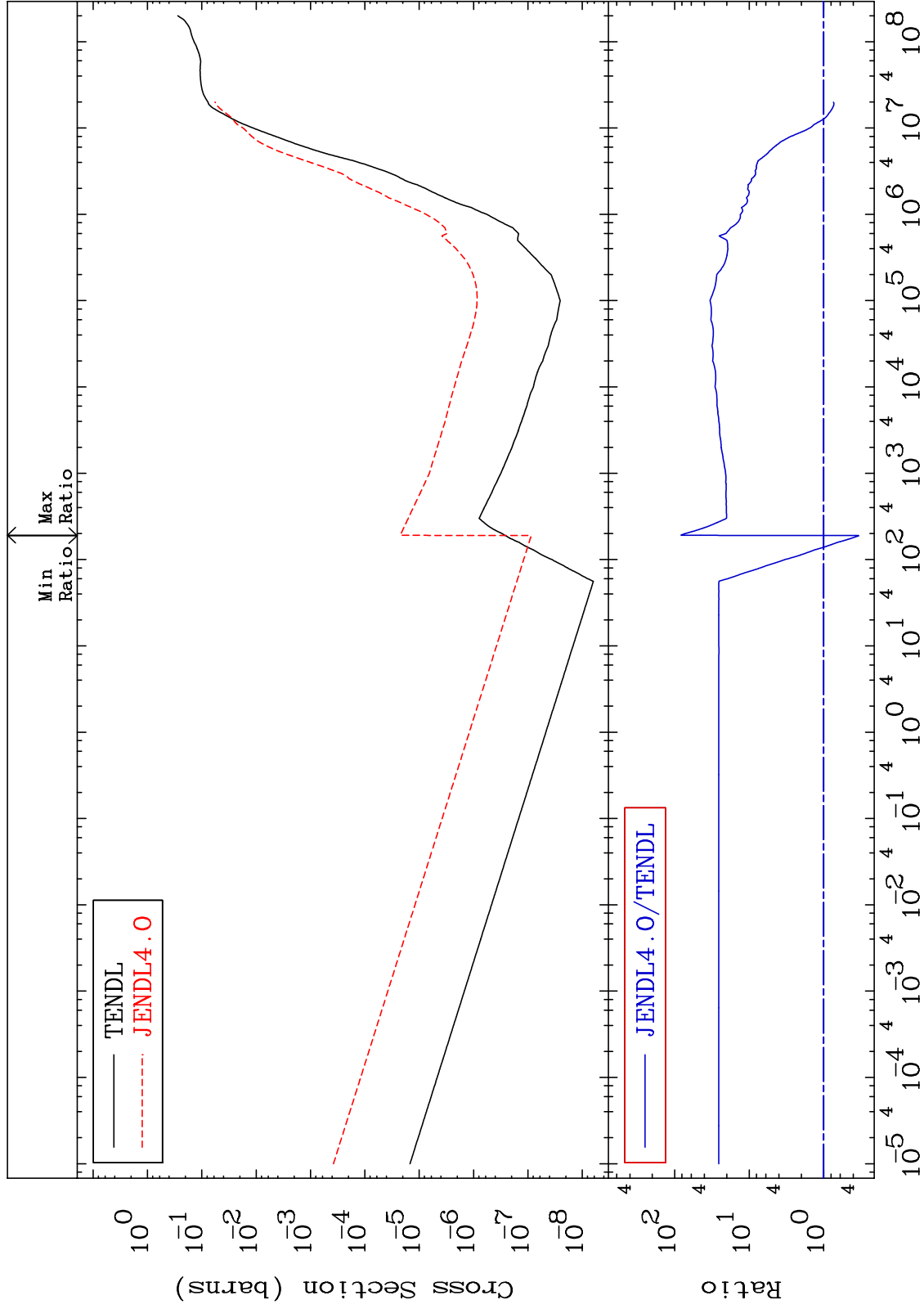
46-Pd-102
-99.67 To 9999. %



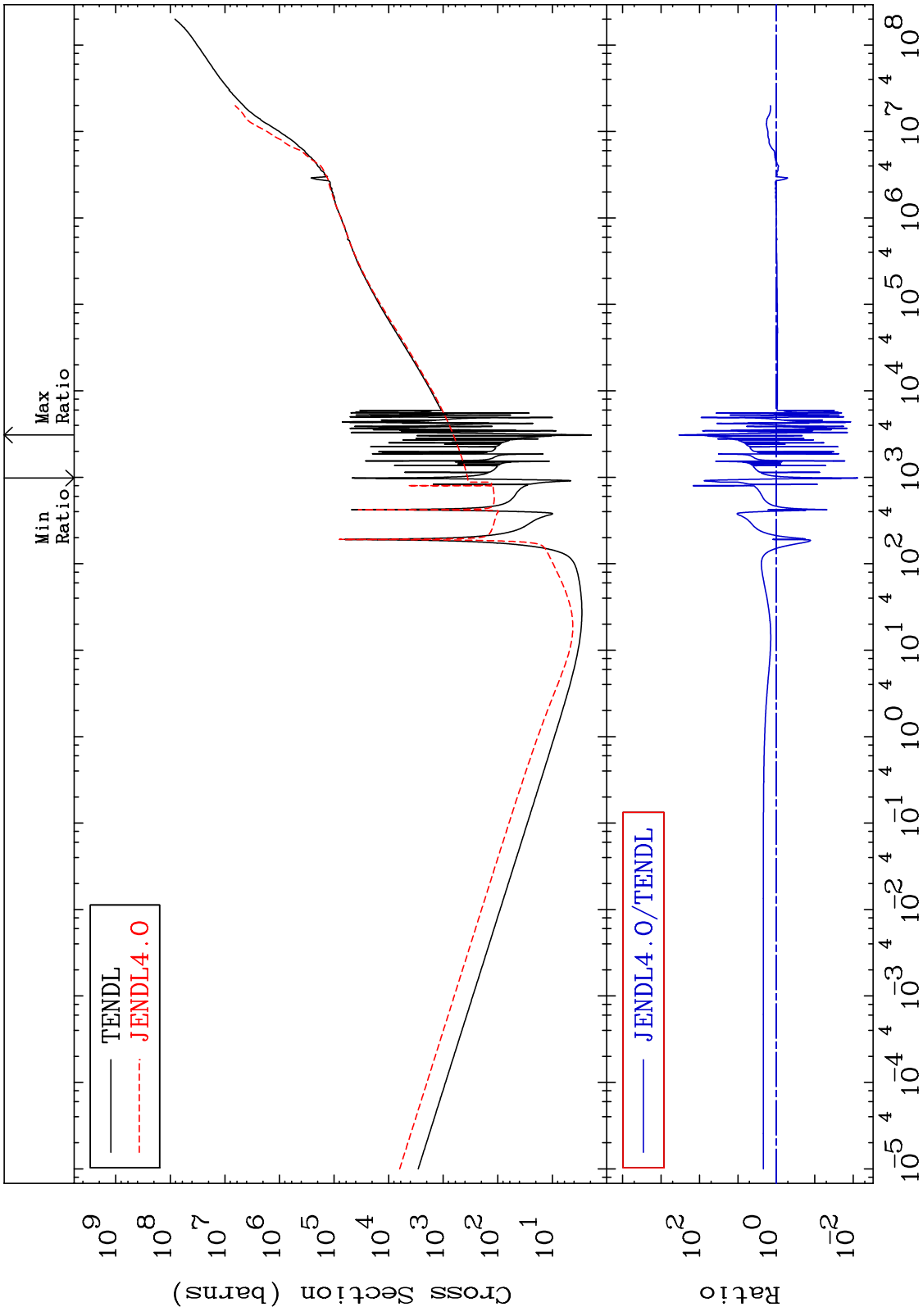
MAT 4625

He-4 Production
Cross Section

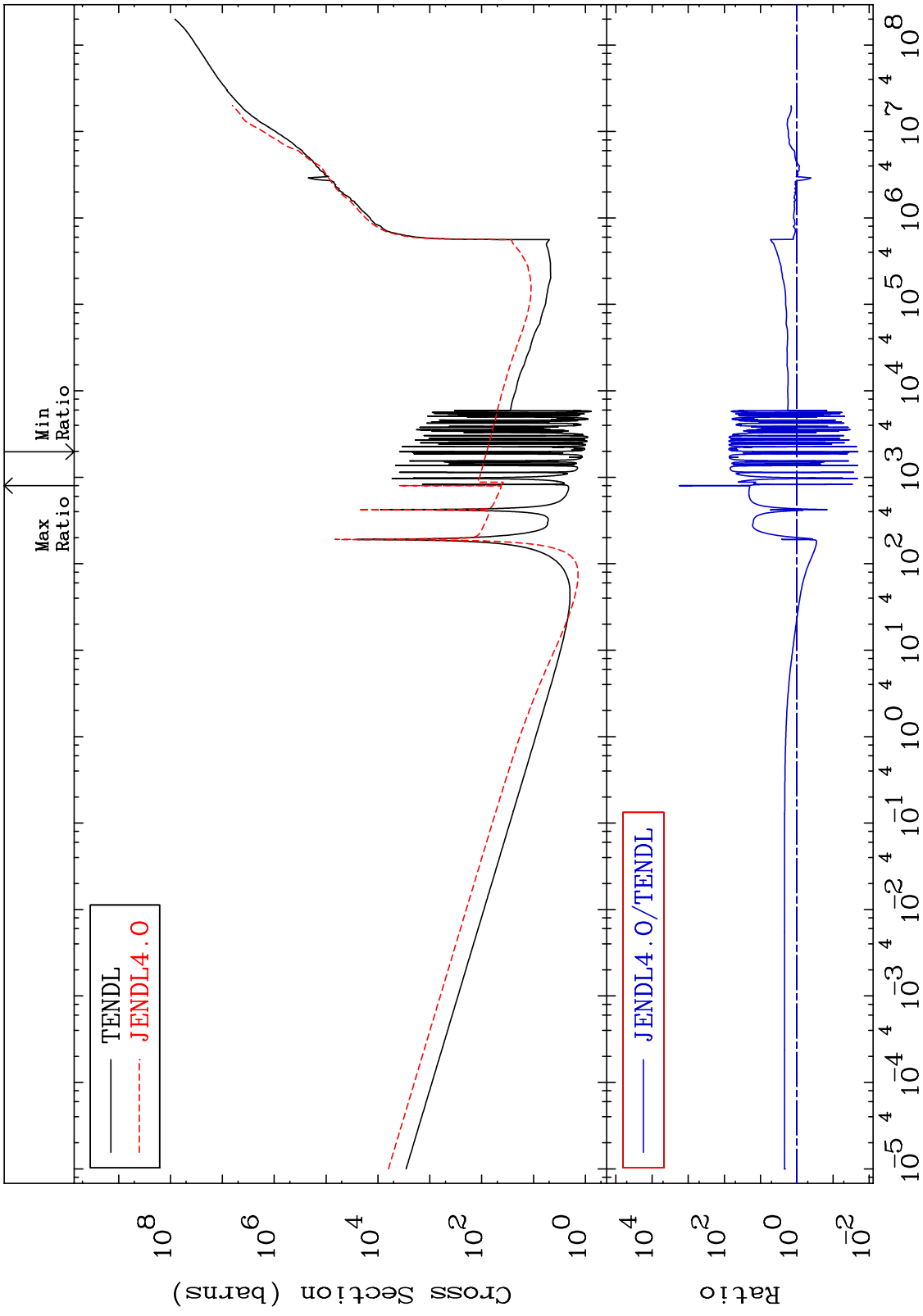
46-Pd-102
-66.40 To 8230. %



MAT 4625 Kerma total (eV-barns) 46-Pd-102
 Cross Section -99.24 To 9999. %



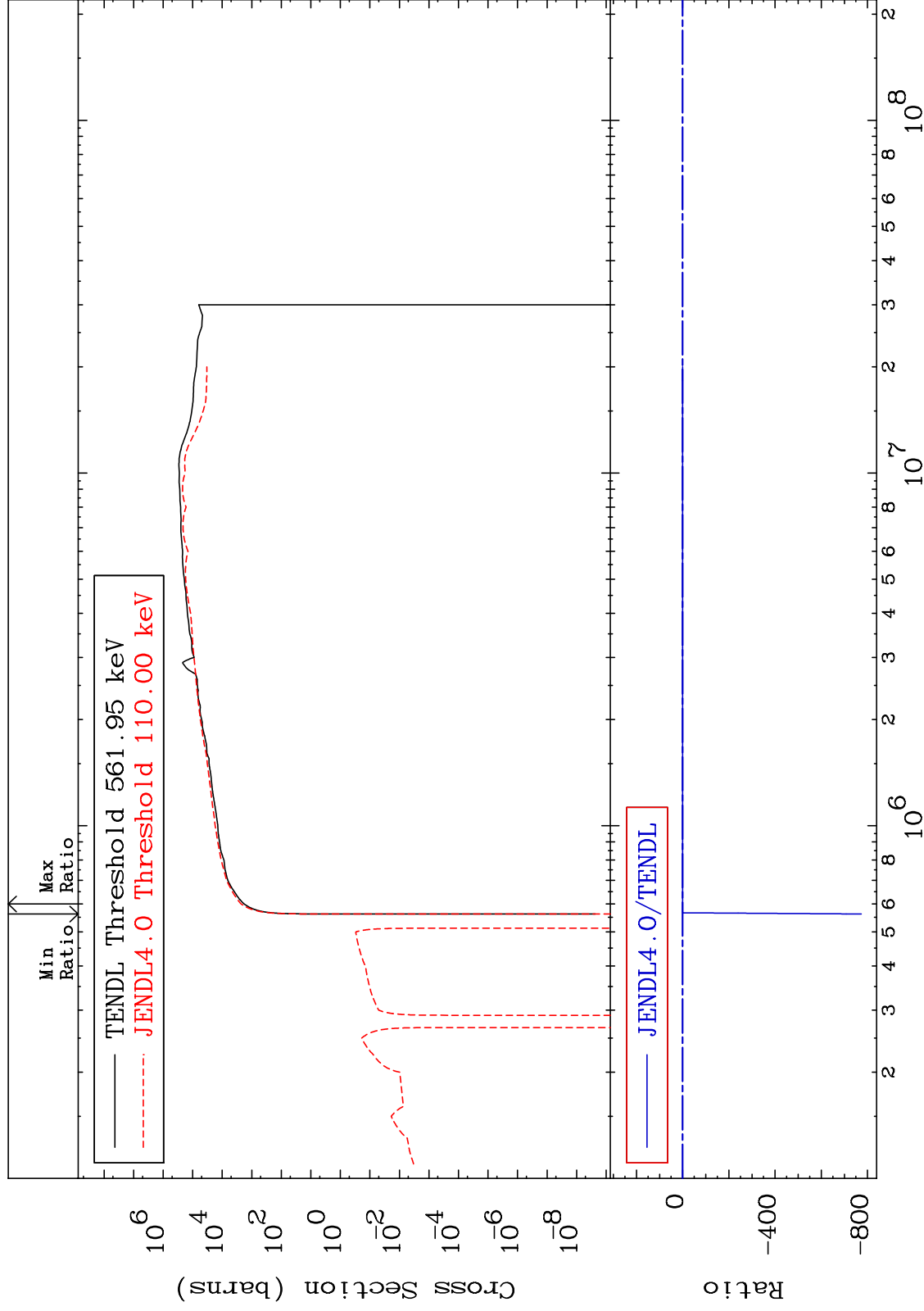
MAT 4625 Kerma non-elastic (all but mt2) 46-Pd-102
 Cross Section -97.94 To 9999. %



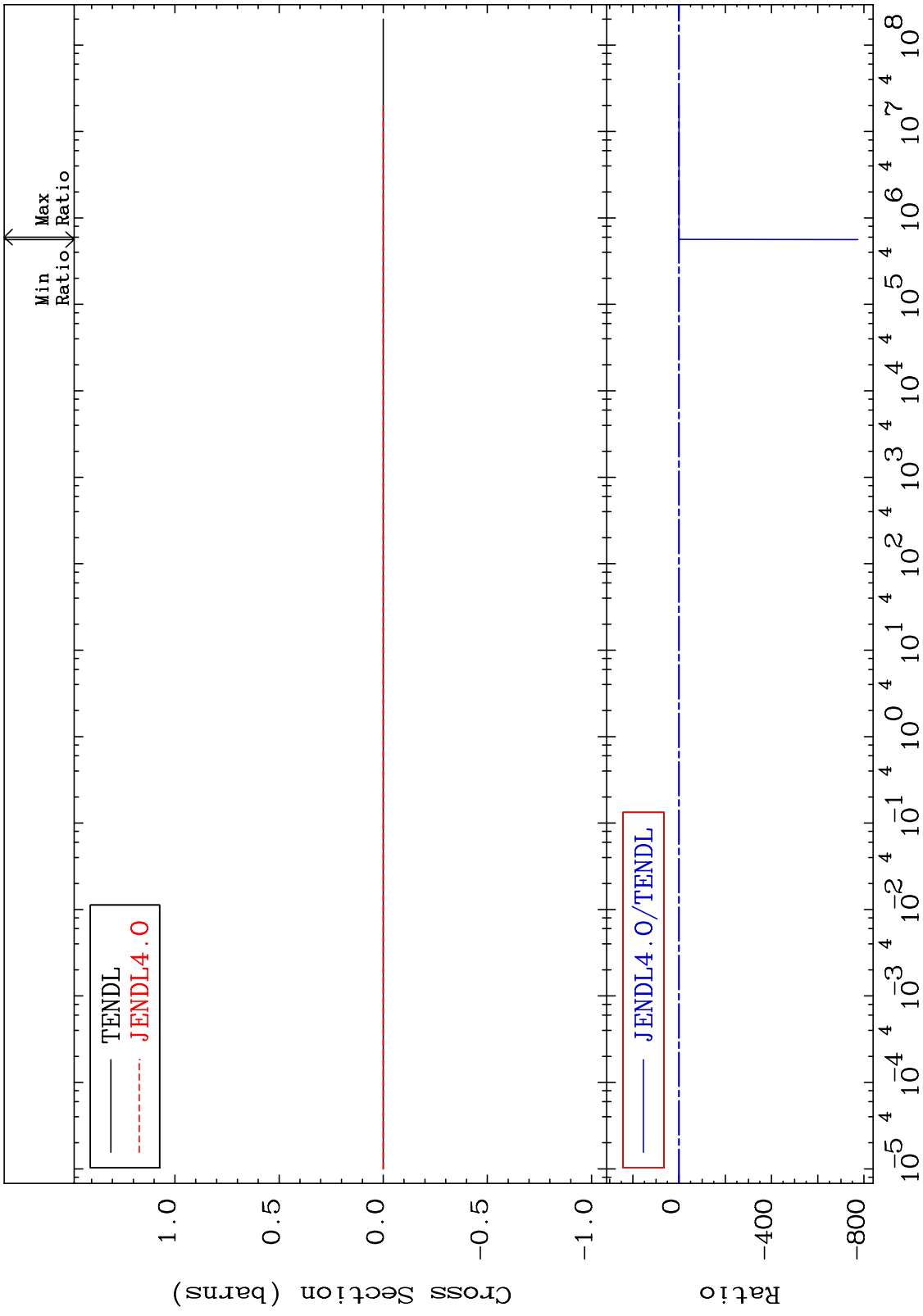
MAT 4625

Kerma inelastic (mt51-91)
Cross Section

46-Pd-102
-9999. To 27.27 %



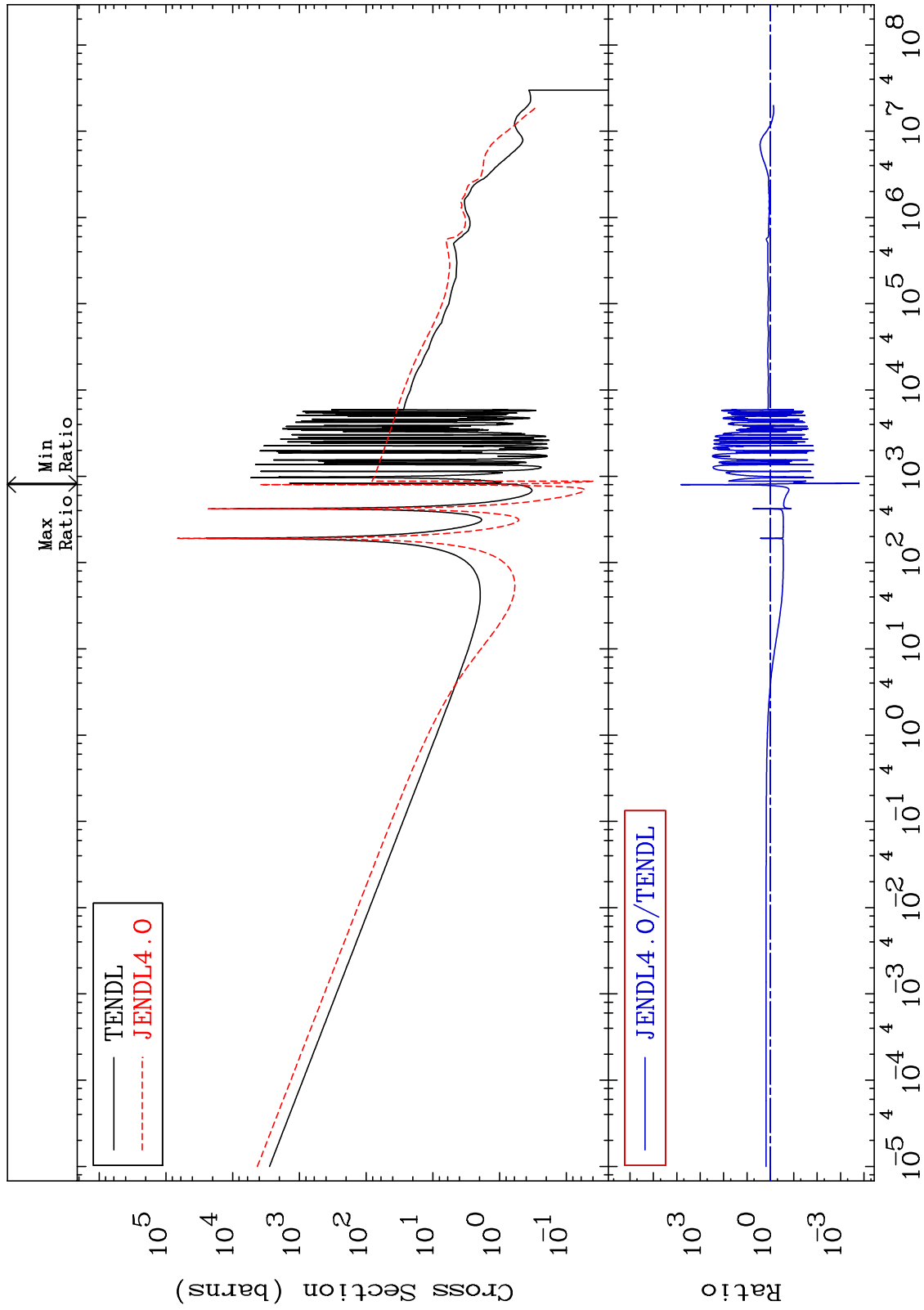
MAT 4625 Kerma fission (mt18 or mt19-20-21-38) 46-Pd-102
 Cross Section -9999. To 27.27 %



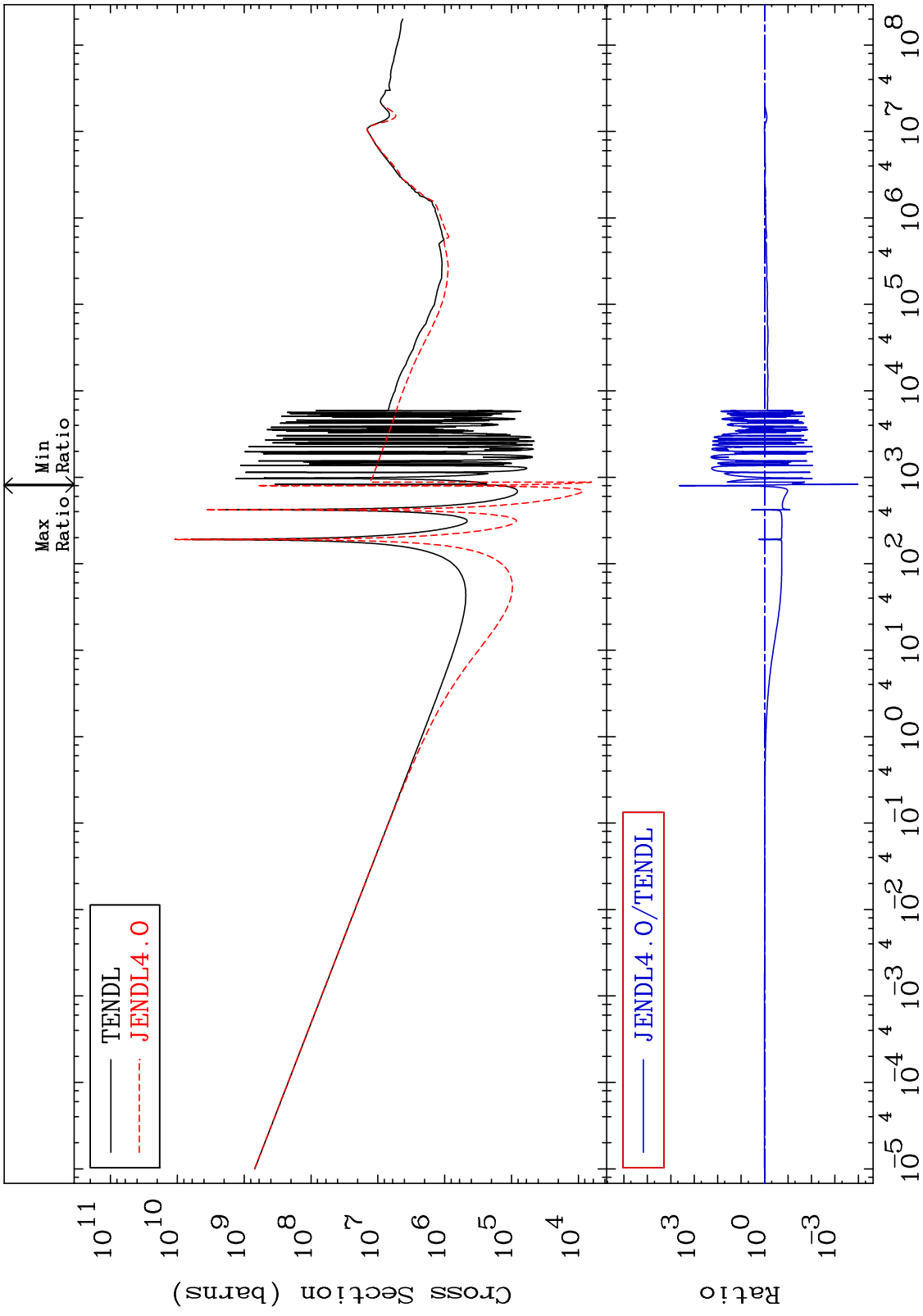
MAT 4625

Kerma capture (mt102)
Cross Section

46-Pd-102
-99.98 To 9999. %

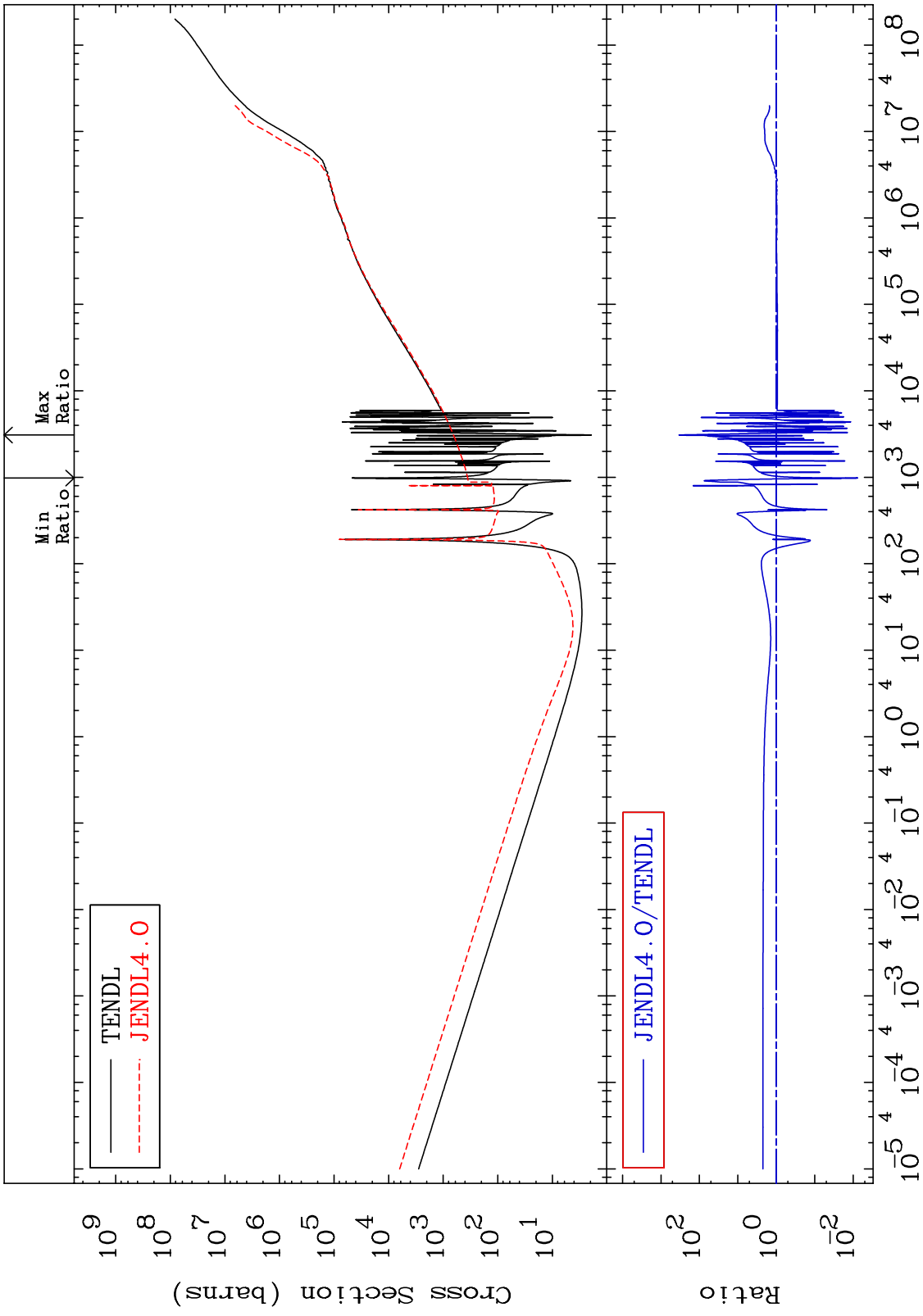


MAT 4625 46-Pd-102 -99.99 To 9999. %



63 46-Pd-102

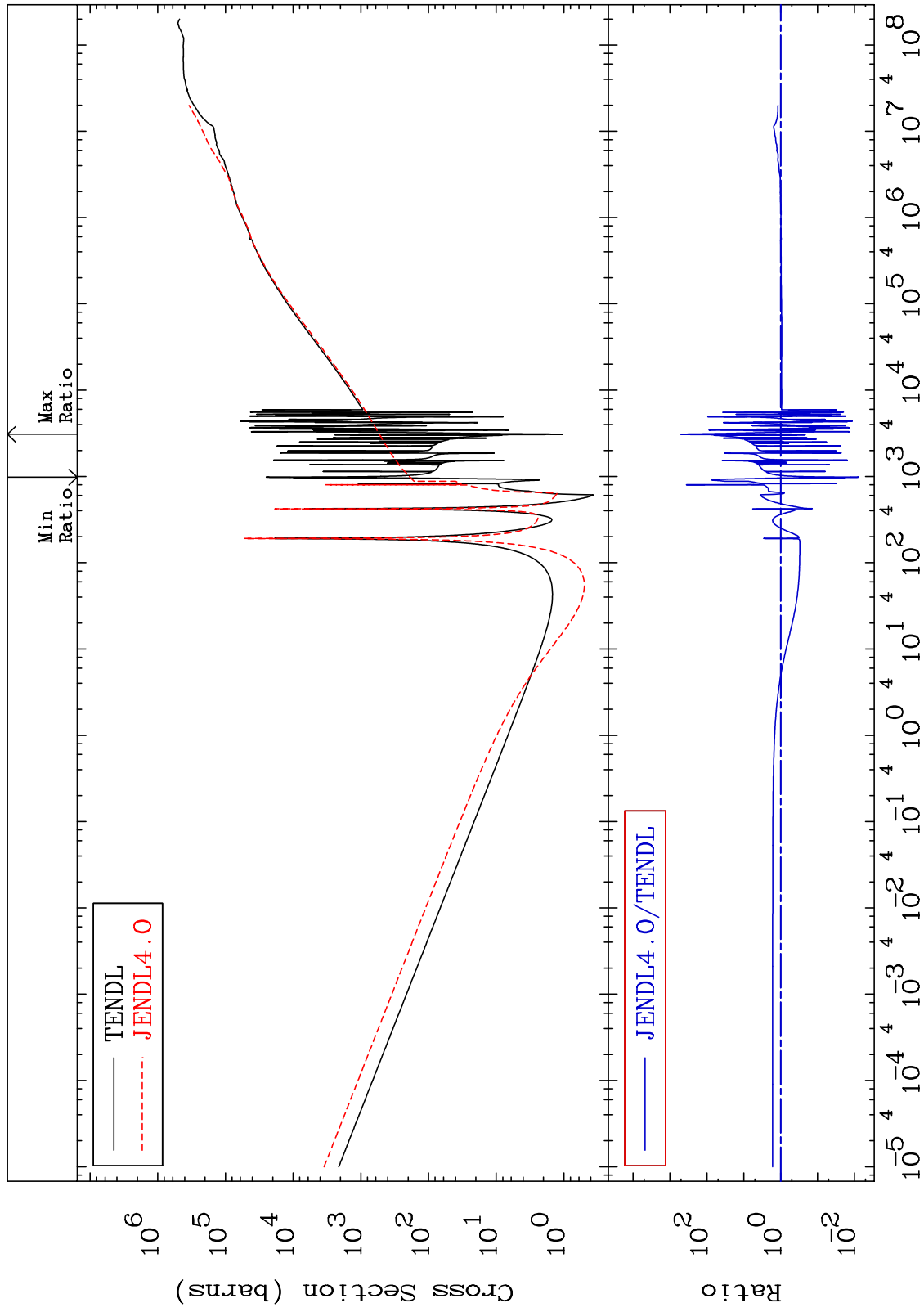
MAT 4625 Total kinematic kerma (high limit) 46-Pd-102
 Cross Section -99.24 To 9999. %



MAT 4625

Dpa total (eV-barns)
Cross Section

46-Pd-102
-99.25 To 9999. %

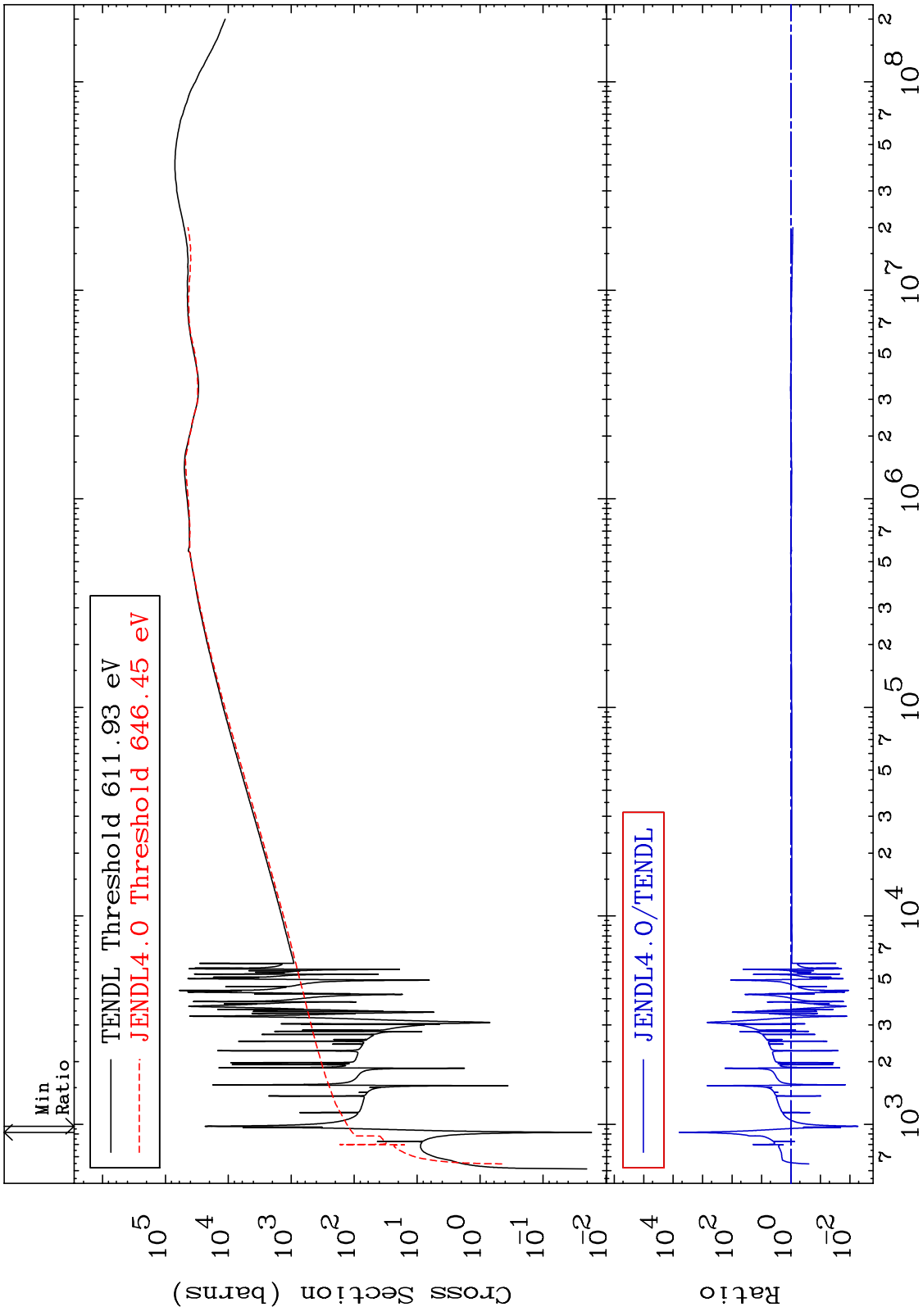


65

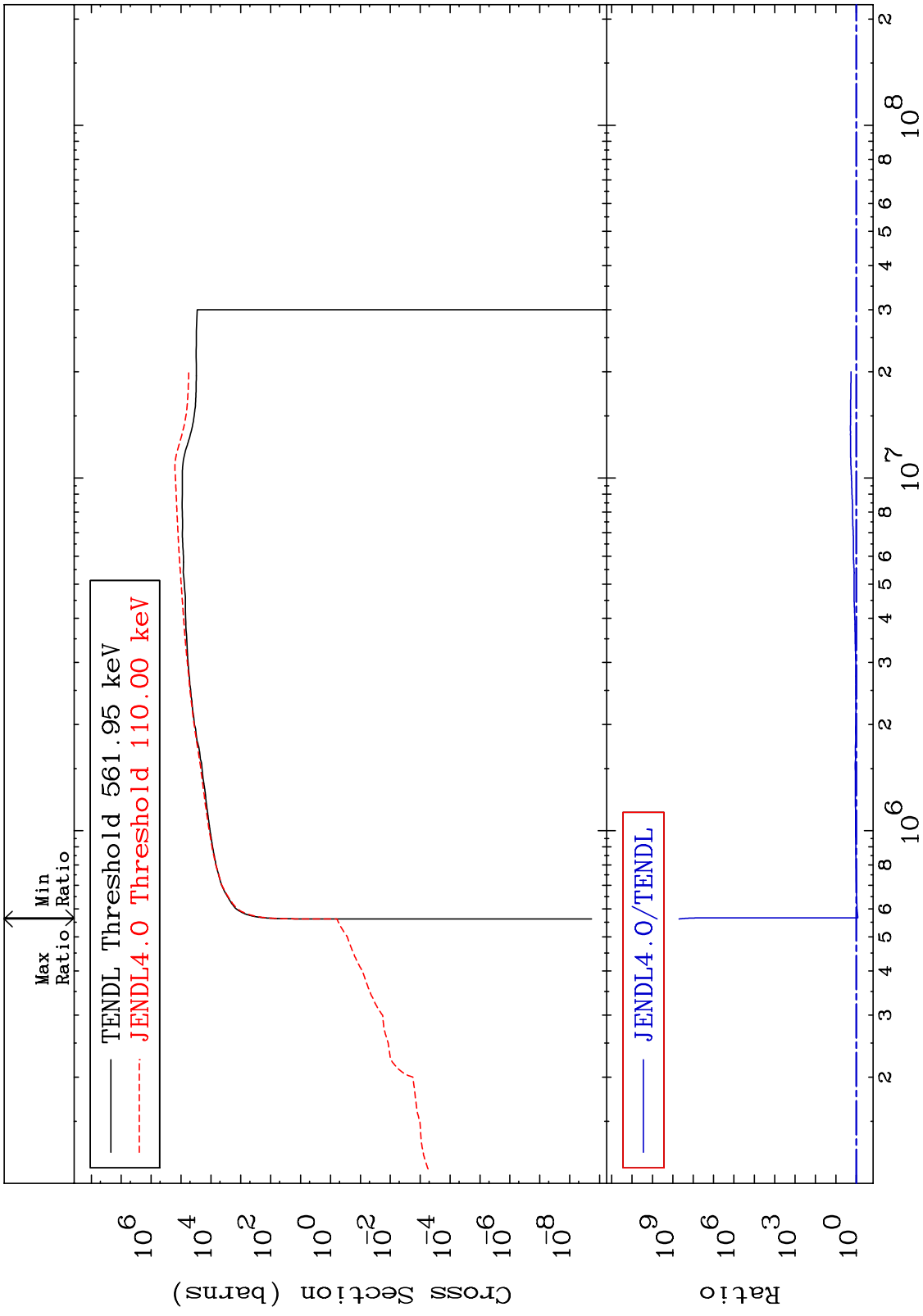
Incident Energy (eV)

46-Pd-102

MAT 4625 Dpa elastic (mt2) 46-Pd-102
Cross Section -99.46 To 9999. %



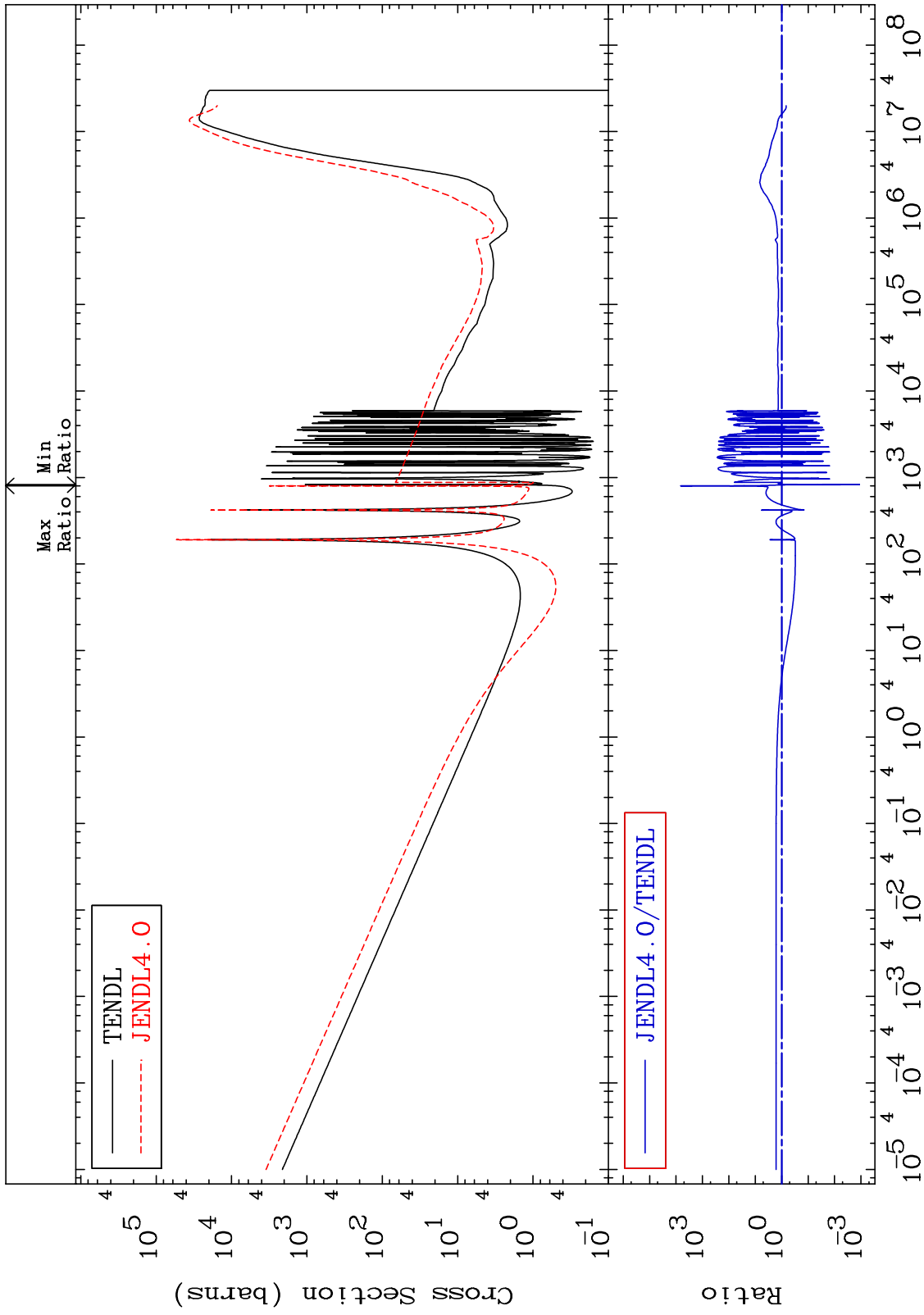
MAT 4625 Dpa inelastic (mt51-91) 46-Pd-102
 Cross Section -16.74 To 9999. %



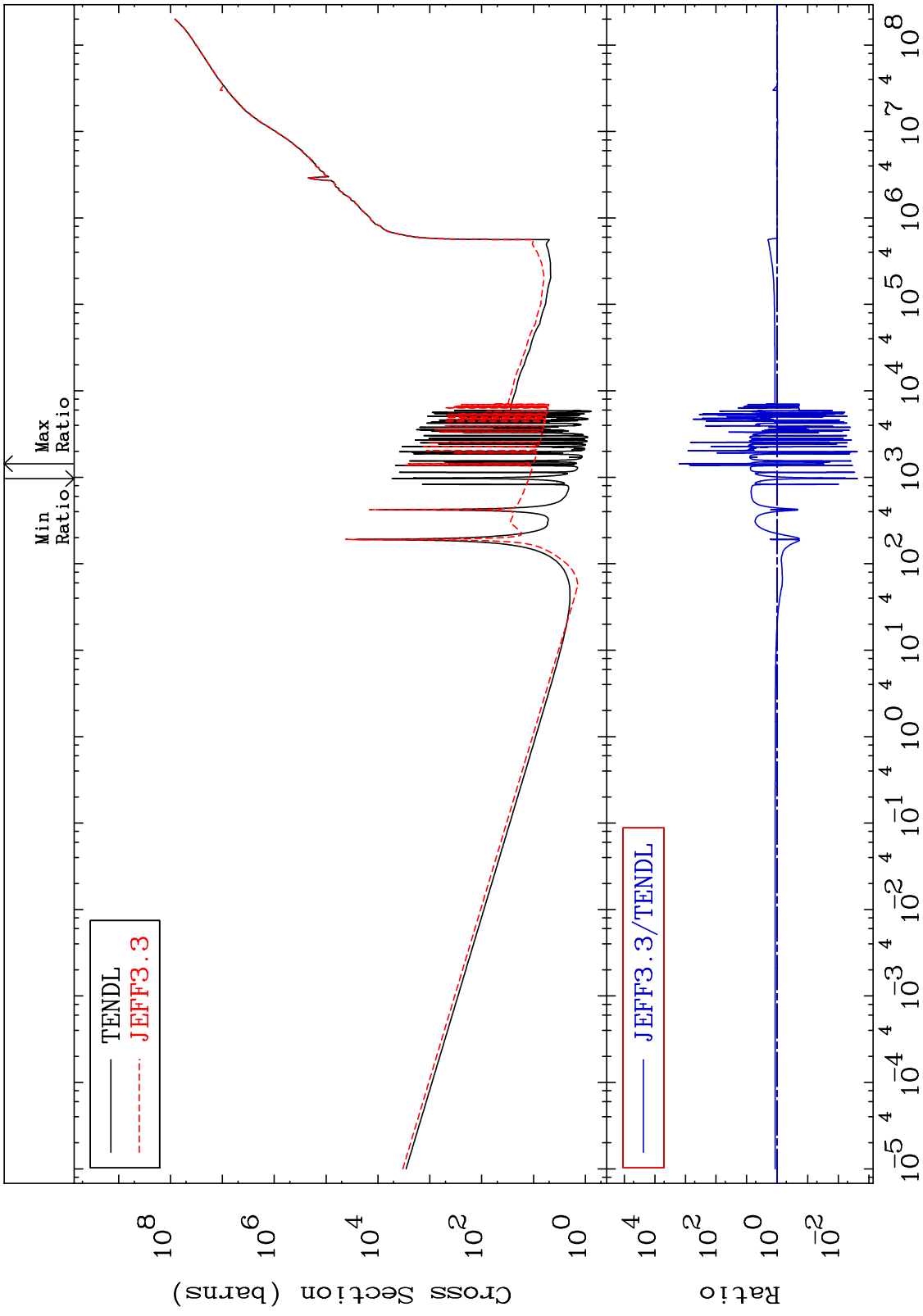
MAT 4625

Dpa disappearance (mt102 -120)
Cross Section

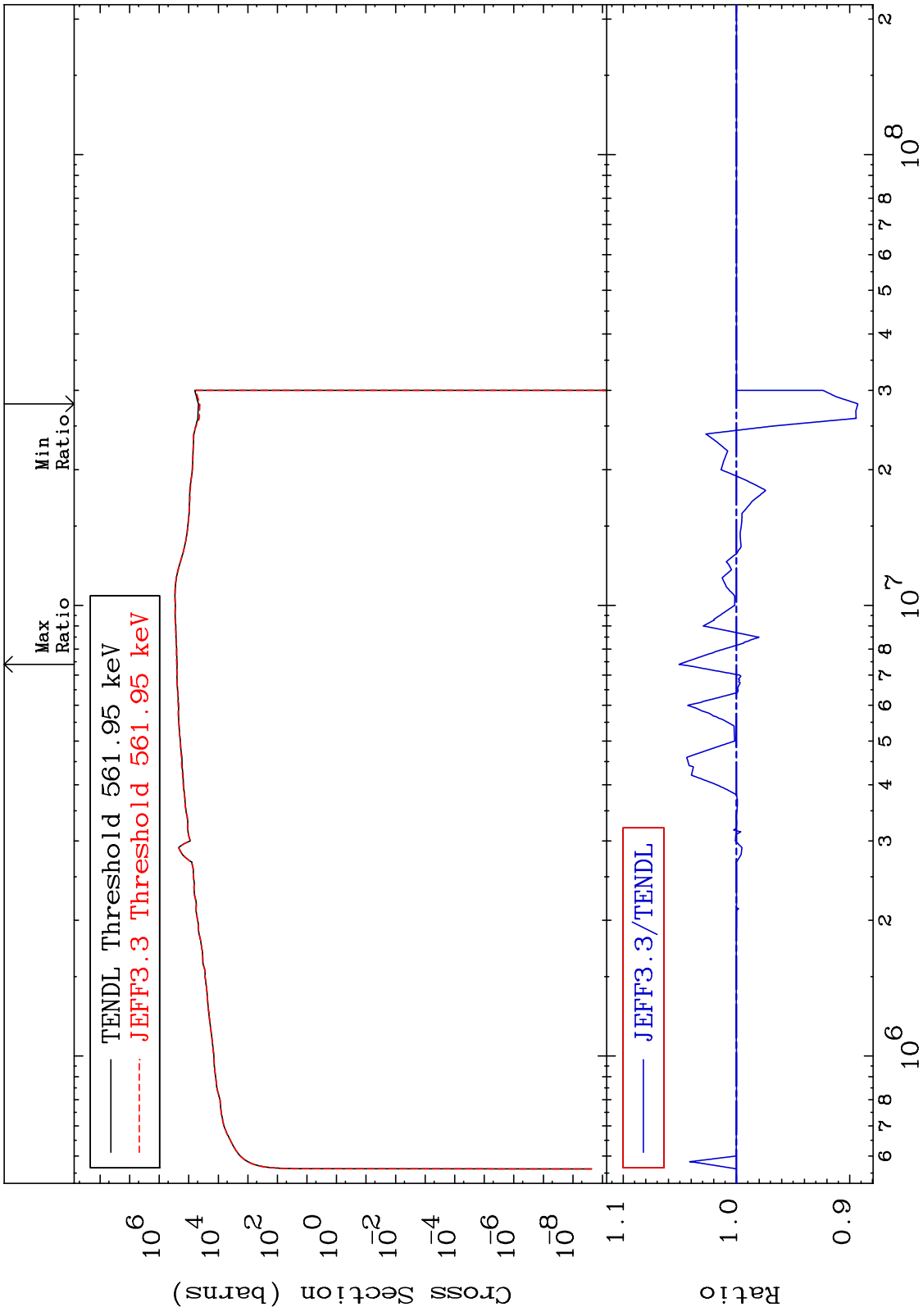
46-Pd-102
-99.89 To 9999. %



MAT 4625 Kerma non-elastic (all but mt.2) 46-Pd-102
 Cross Section -99.77 To 9999. %

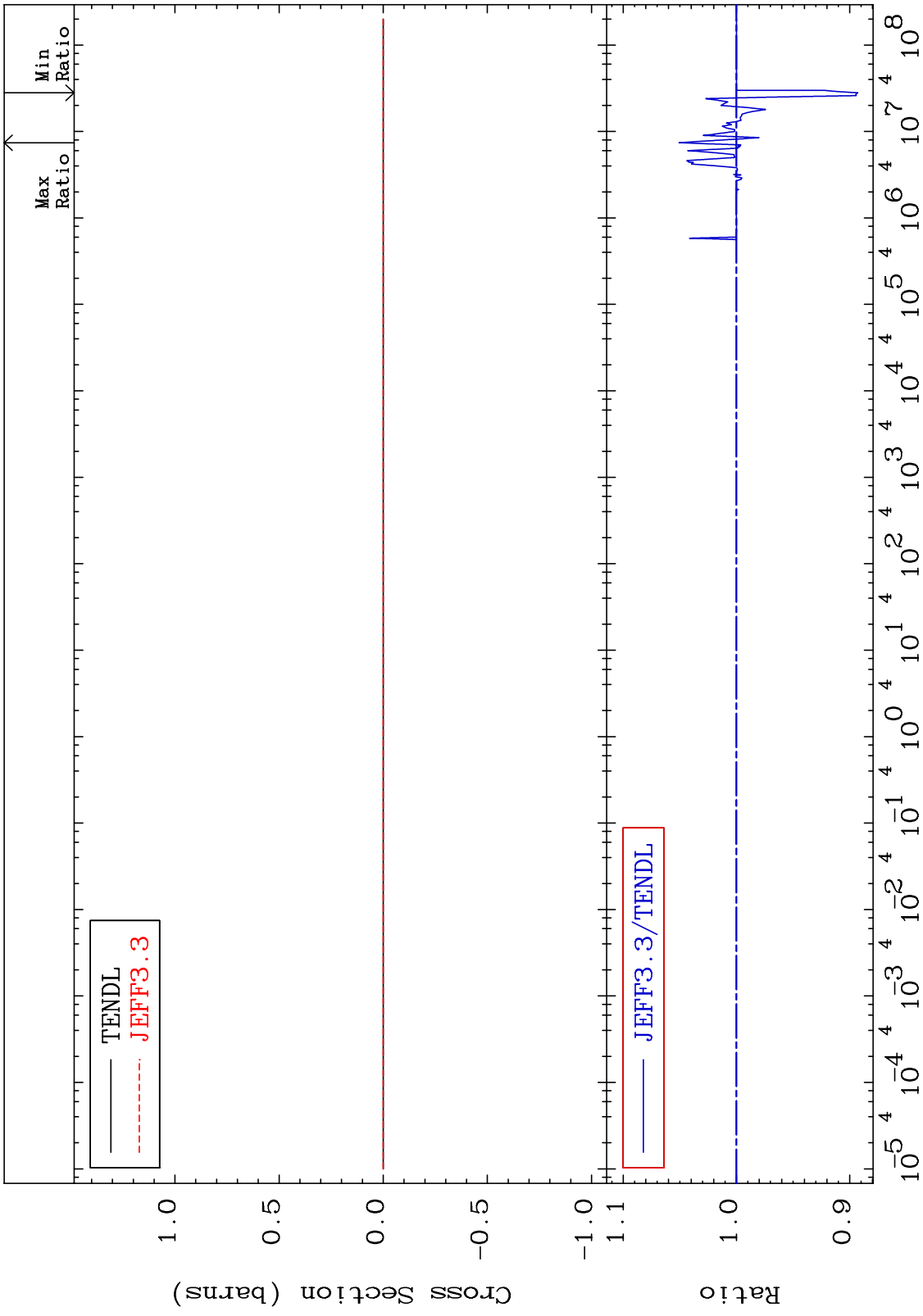


MAT 4625 Kerma inelastic (mt51-91) 46-Pd-102
-10.72 To 5.069 %



70 Incident Energy (eV) 46-Pd-102

MAT 4625 Kerma fission (mt18 or mt19-20-21-38) 46-Pd-102
 Cross Section -10.72 To 5.069 %

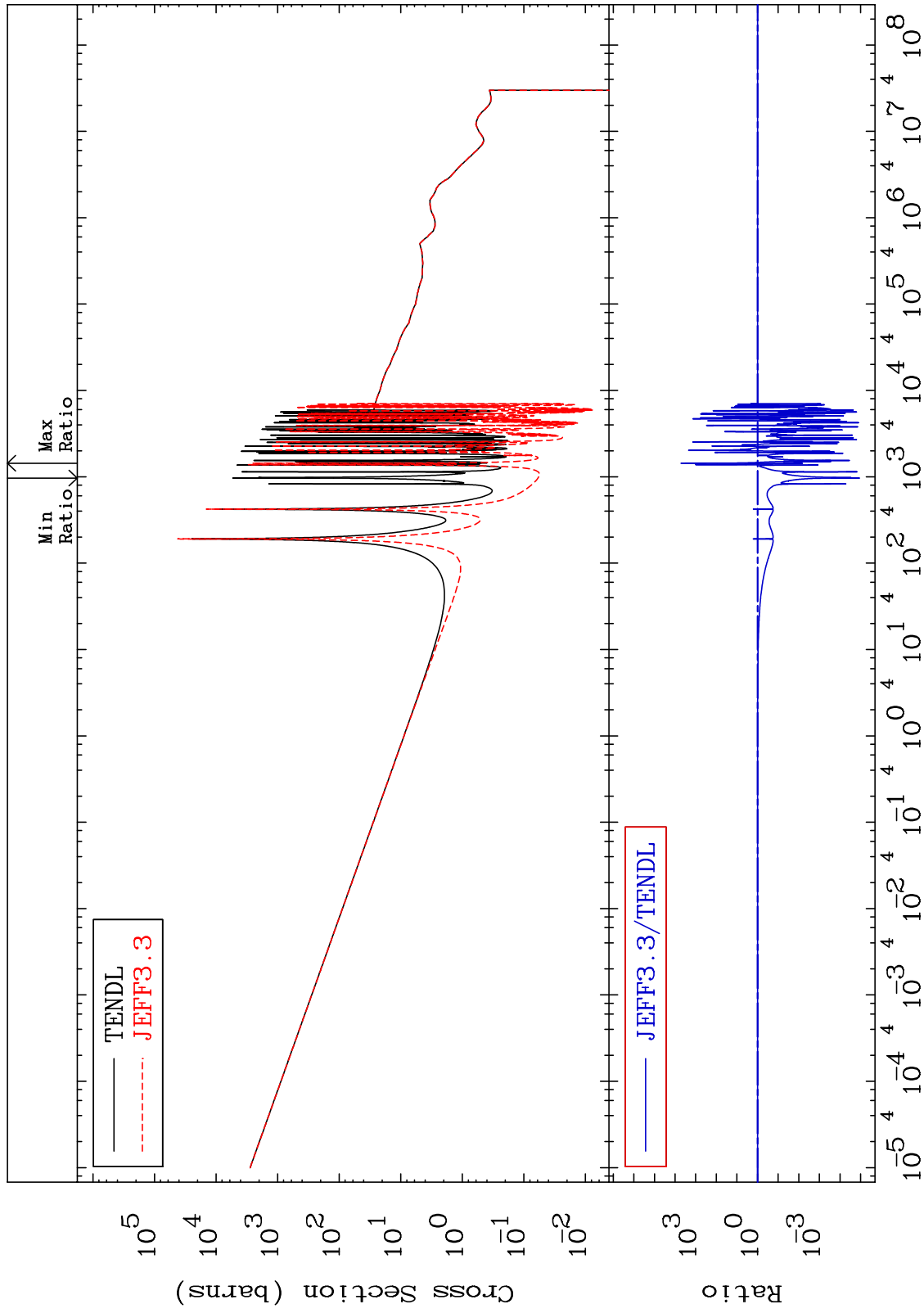


71 Incident Energy (eV) 46-Pd-102

MAT 4625

Kerma capture (mt102)
Cross Section

46-Pd-102
-100.0 To 9999. %

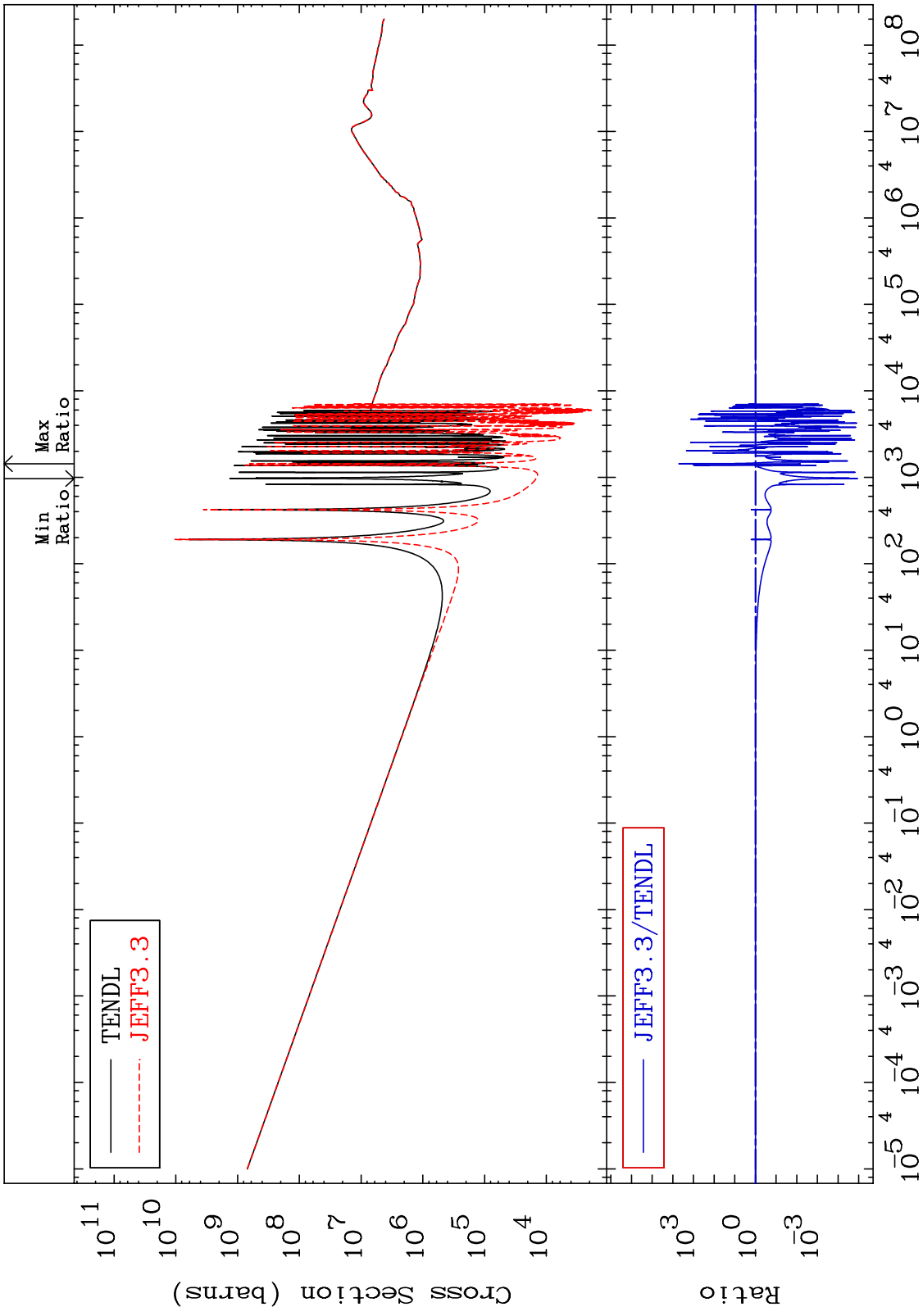


72

Incident Energy (eV)

46-Pd-102

MAT 4625 Total photon (eV-barns) 46-Pd-102
Cross Section -100.0 To 9999. %

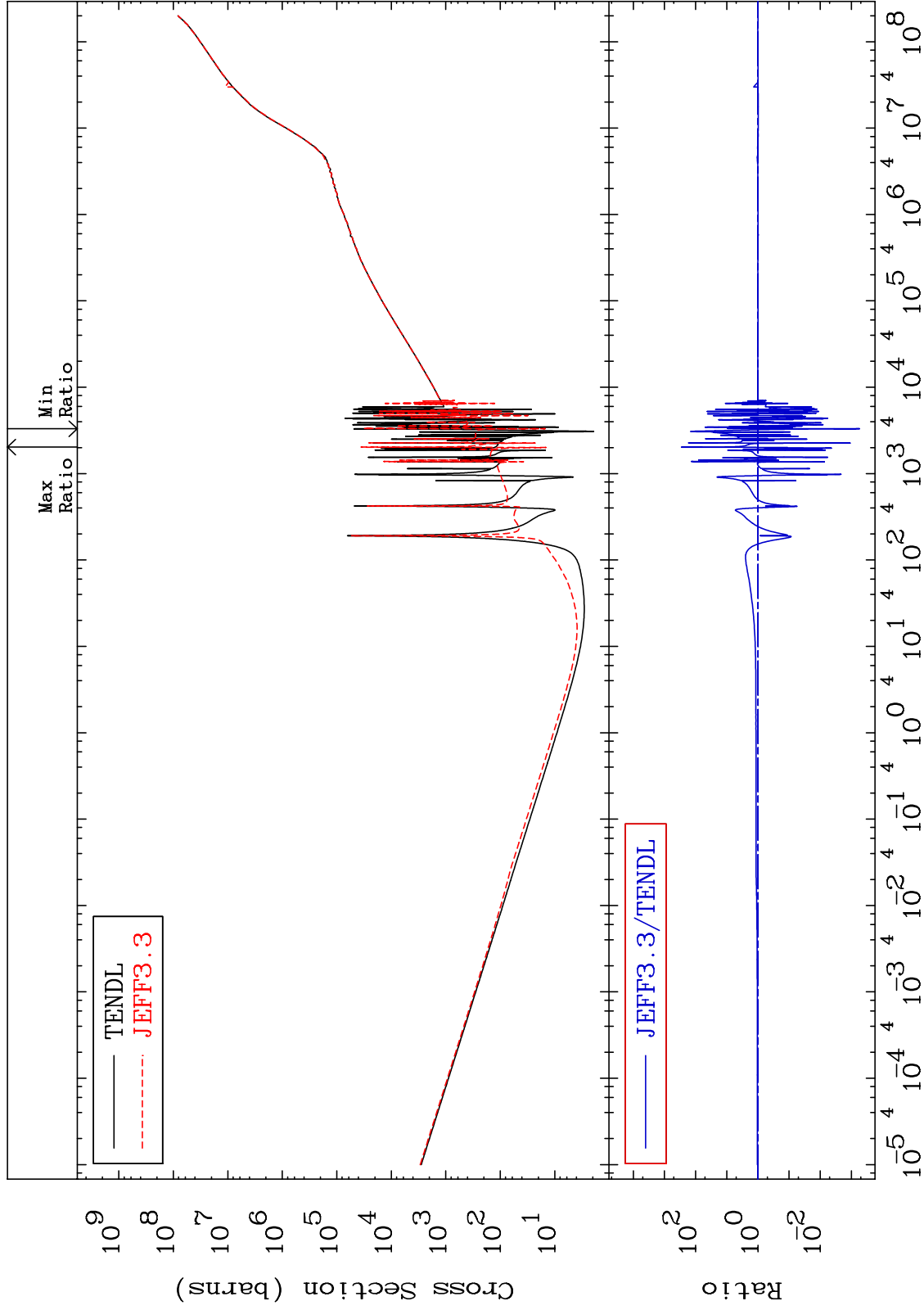


73 46-Pd-102

MAT 4625

Total kinematic kerma (high limit)
Cross Section

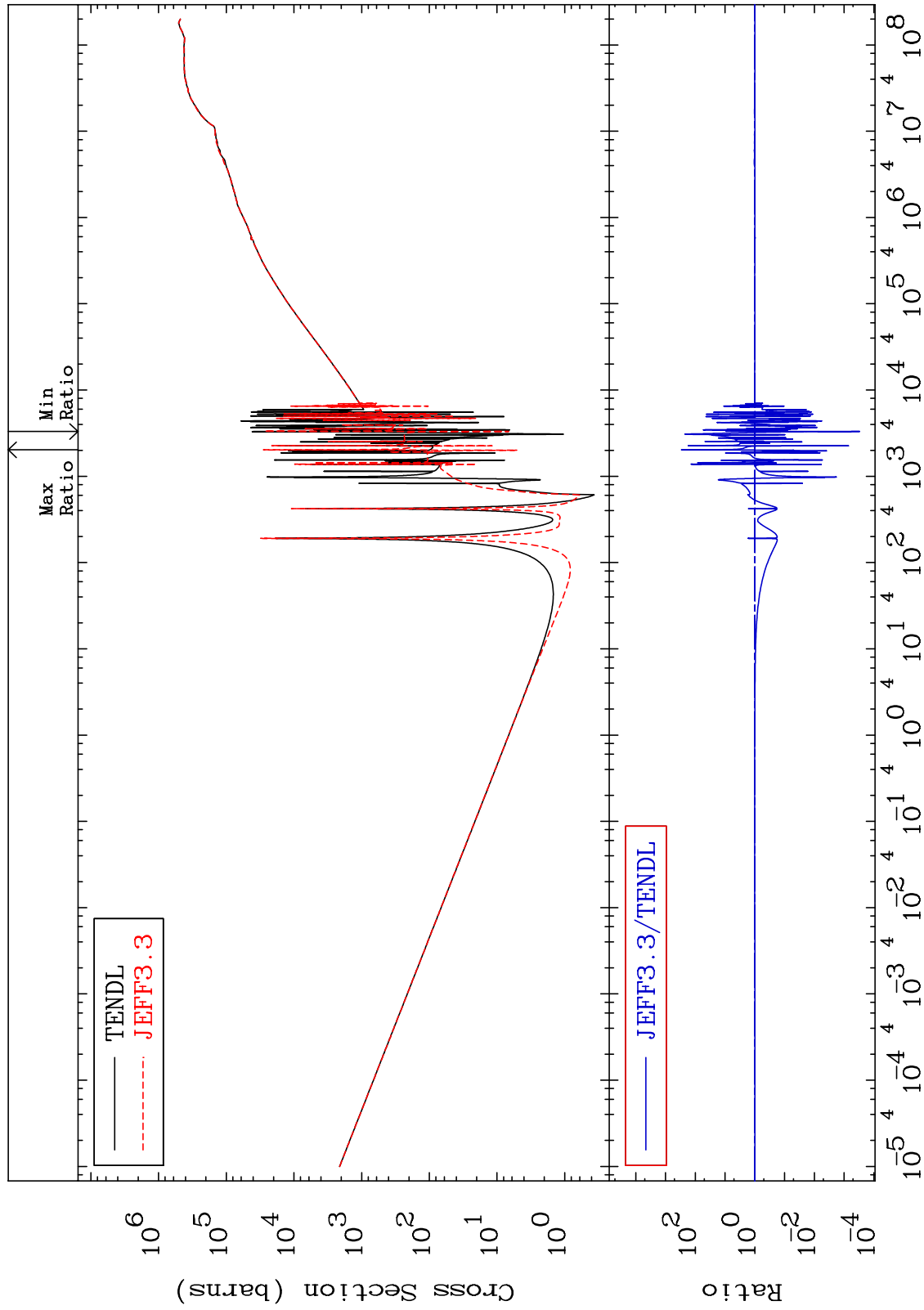
46-Pd-102
-99.95 To 9999. %



MAT 4625

Dpa total (eV-barns)
Cross Section

46-Pd-102
-99.97 To 9999. %



75

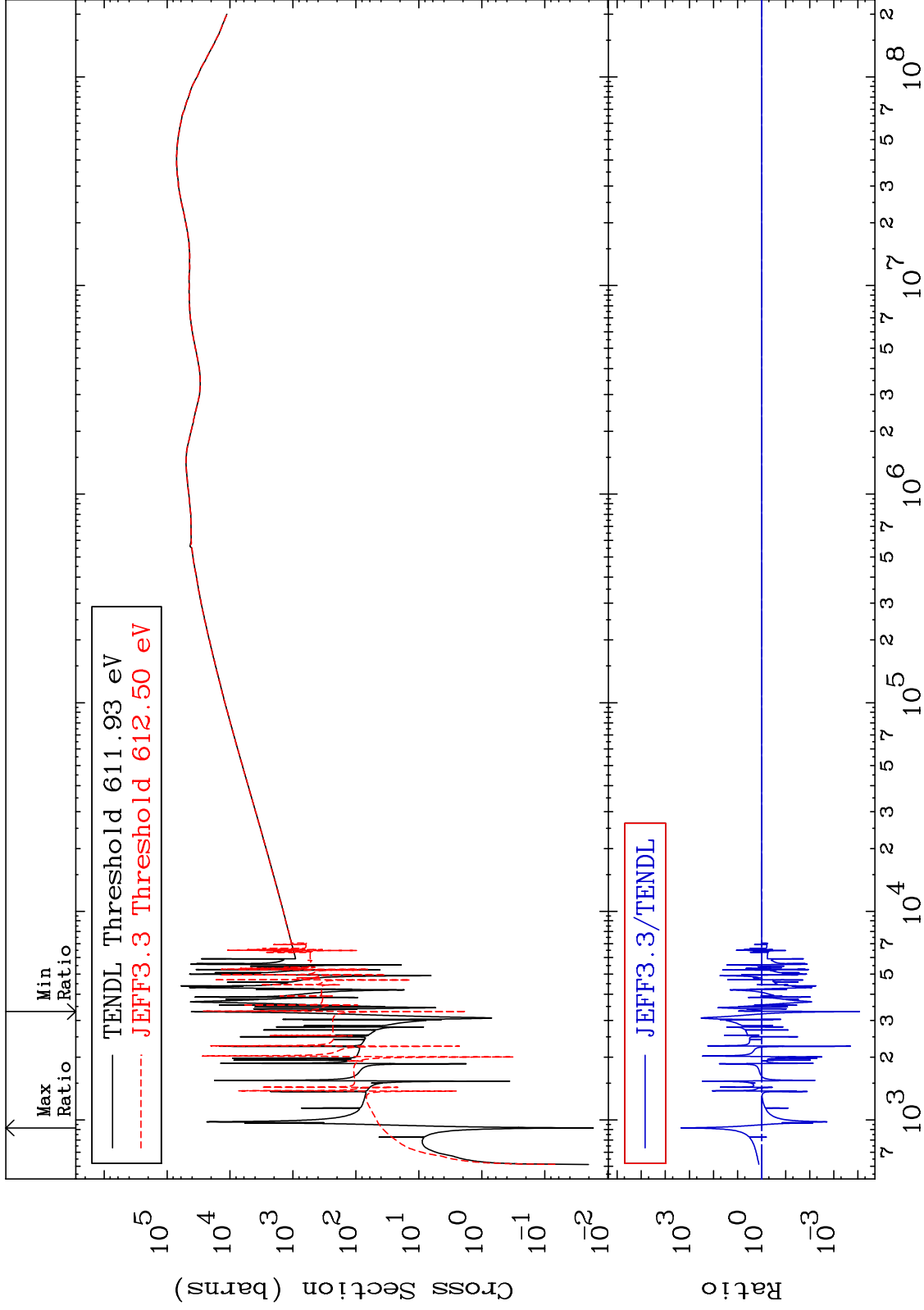
Incident Energy (eV)

46-Pd-102

MAT 4625

Dpa elastic (mt2)
Cross Section

46-Pd-102
-99.99 To 9999. %

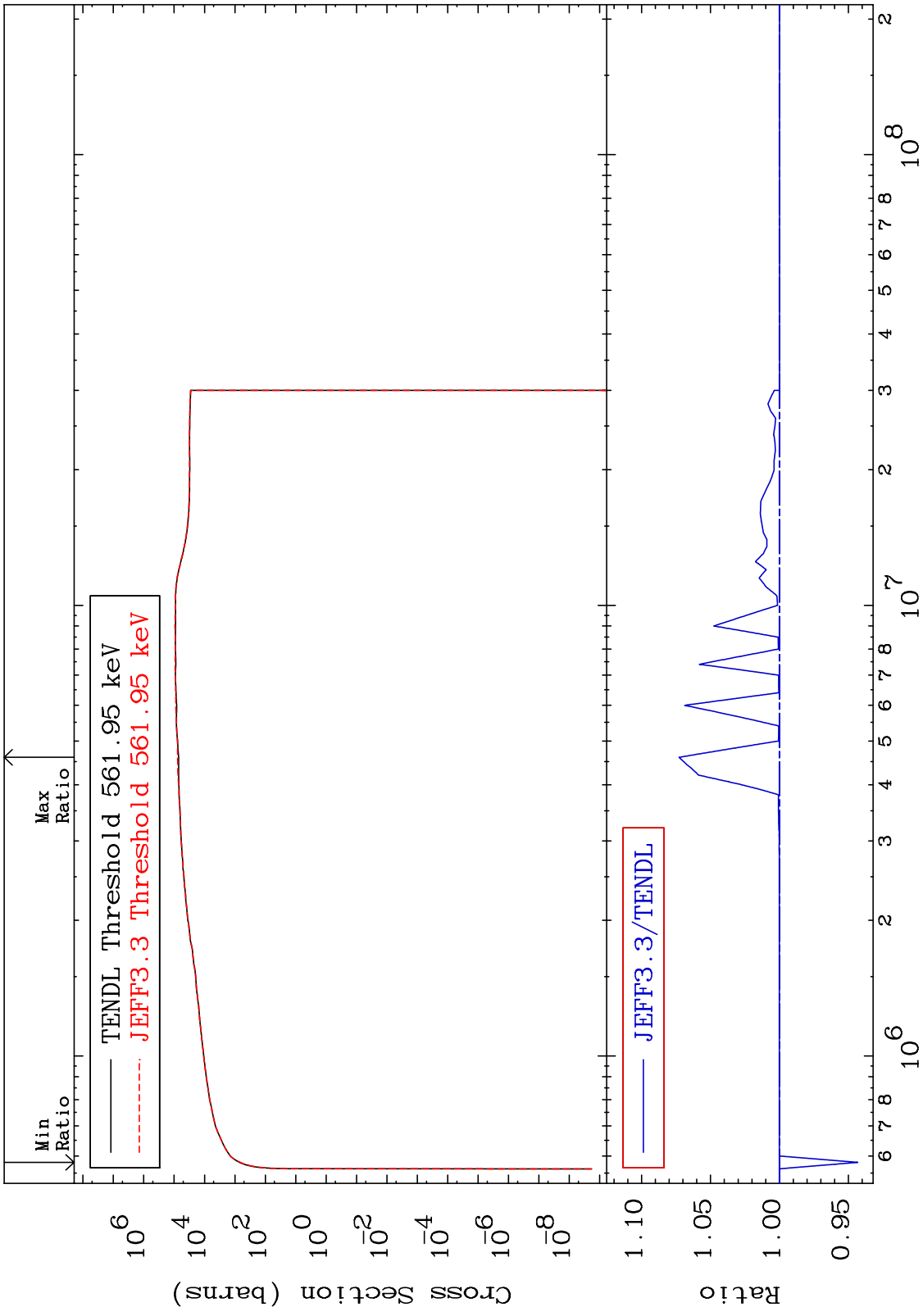


76

Incident Energy (eV)

46-Pd-102

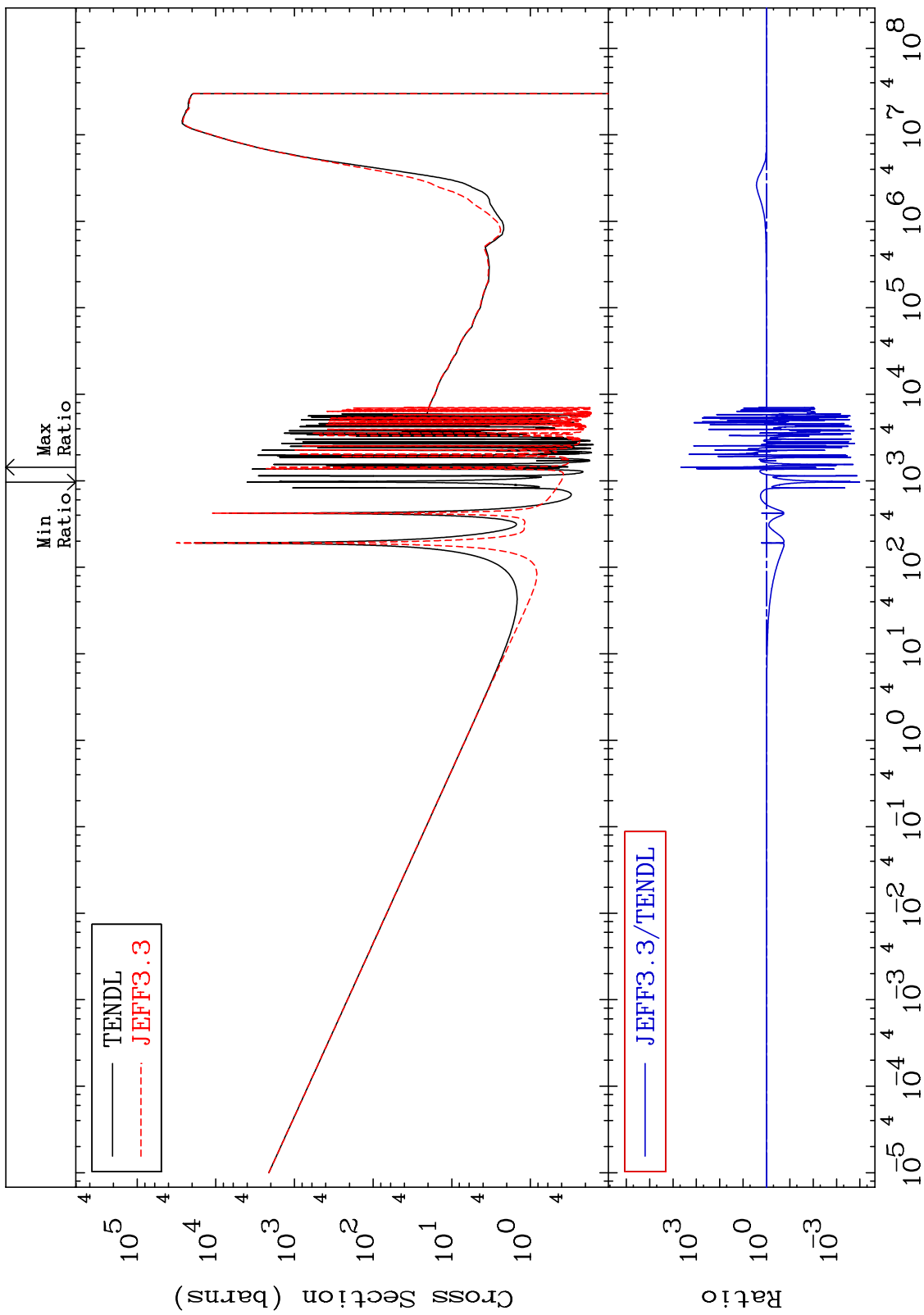
MAT 4625 Dpa inelastic (mt51-91) 46-Pd-102
 Cross Section -5.679 To 7.283 %



MAT 4625

Dpa disappearance (mt102 -120)
Cross Section

46-Pd-102
-99.99 To 9999. %

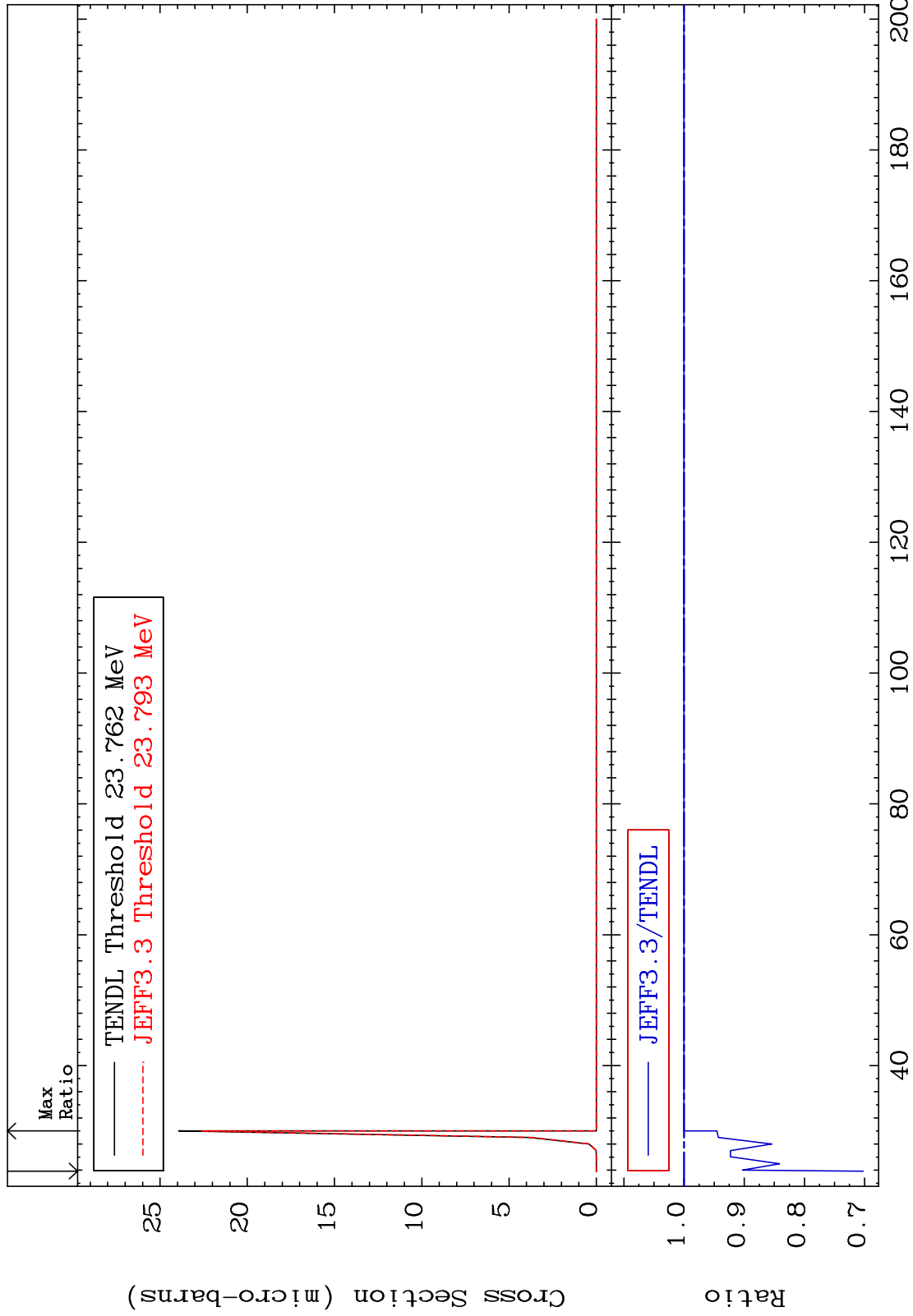


MAT 4625

(n,2n) d:45-Rh-99g

46-Pd-102

Radionuclide Production Cross Section -29.78 To 0.000 %

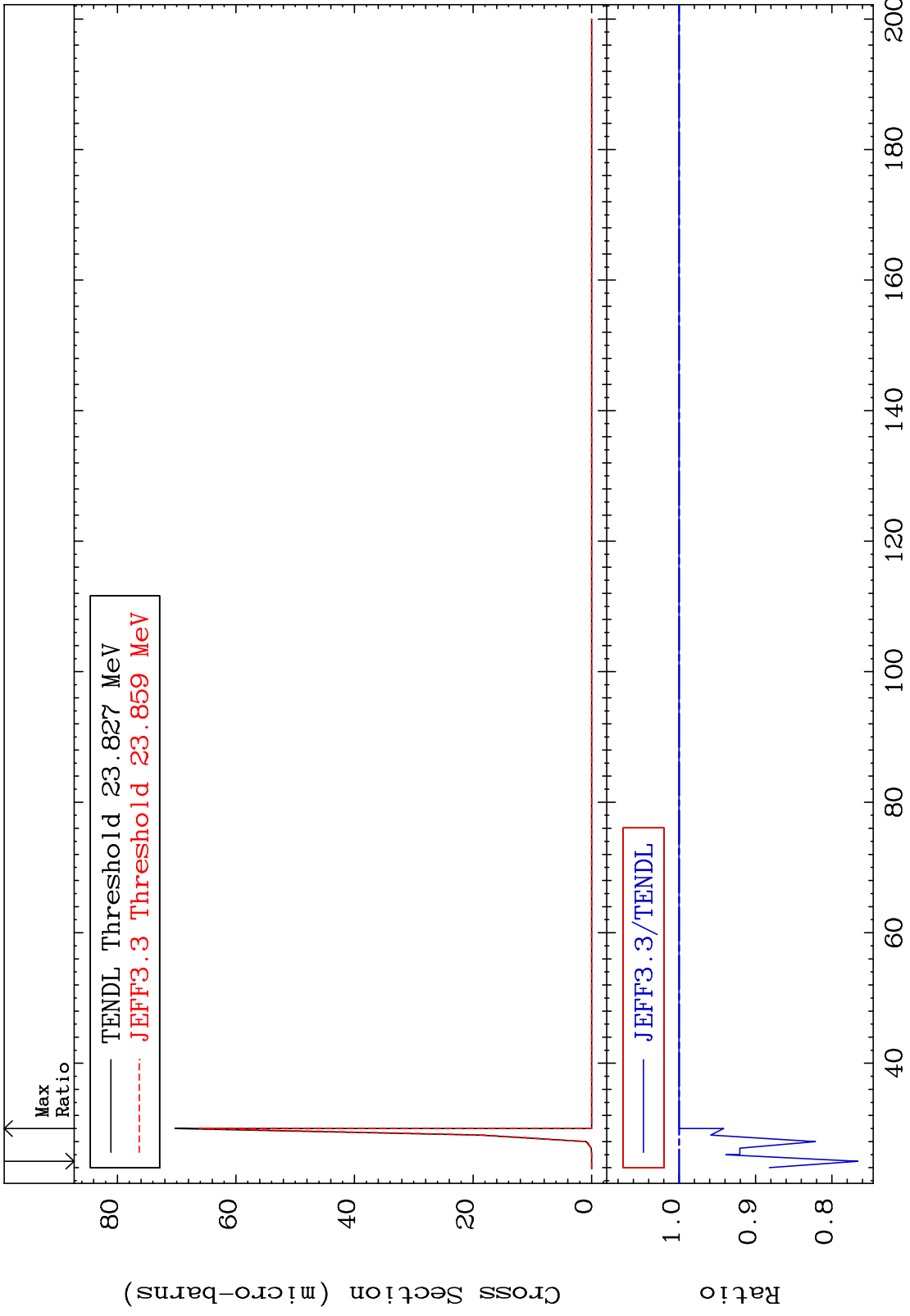


79

Incident Energy (MeV)

46-Pd-102

MAT 4625 (n,2n) d:45-Rh-99m1 46-Pd-102
Radionuclide Production Cross Section -23.40 To 0.000 %



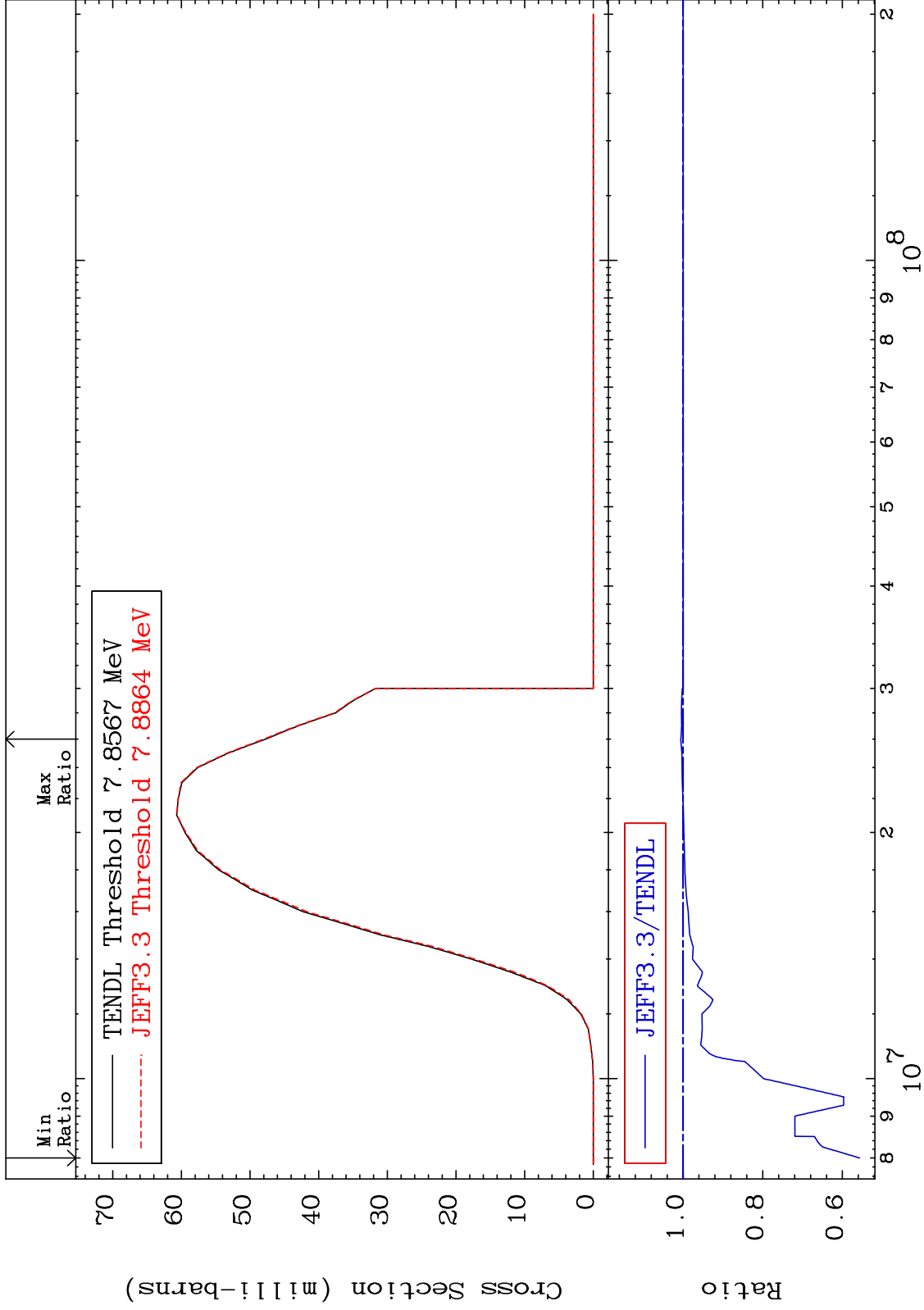
80 46-Pd-102

MAT 4625

(n, n') p:45-Rh-101g

46-Pd-102

Radionuclide Production Cross Section -44.32 To 0.560 %

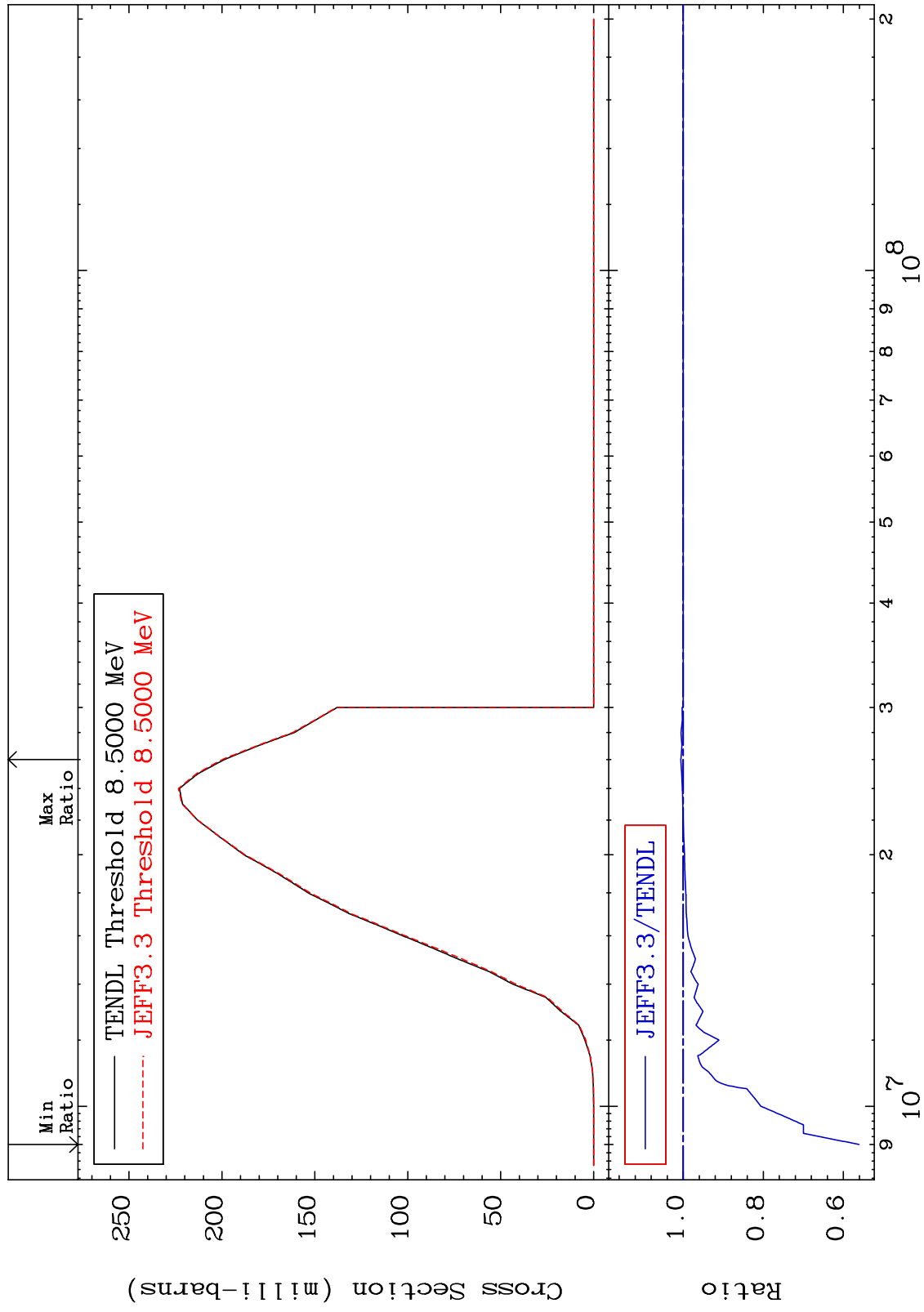


81

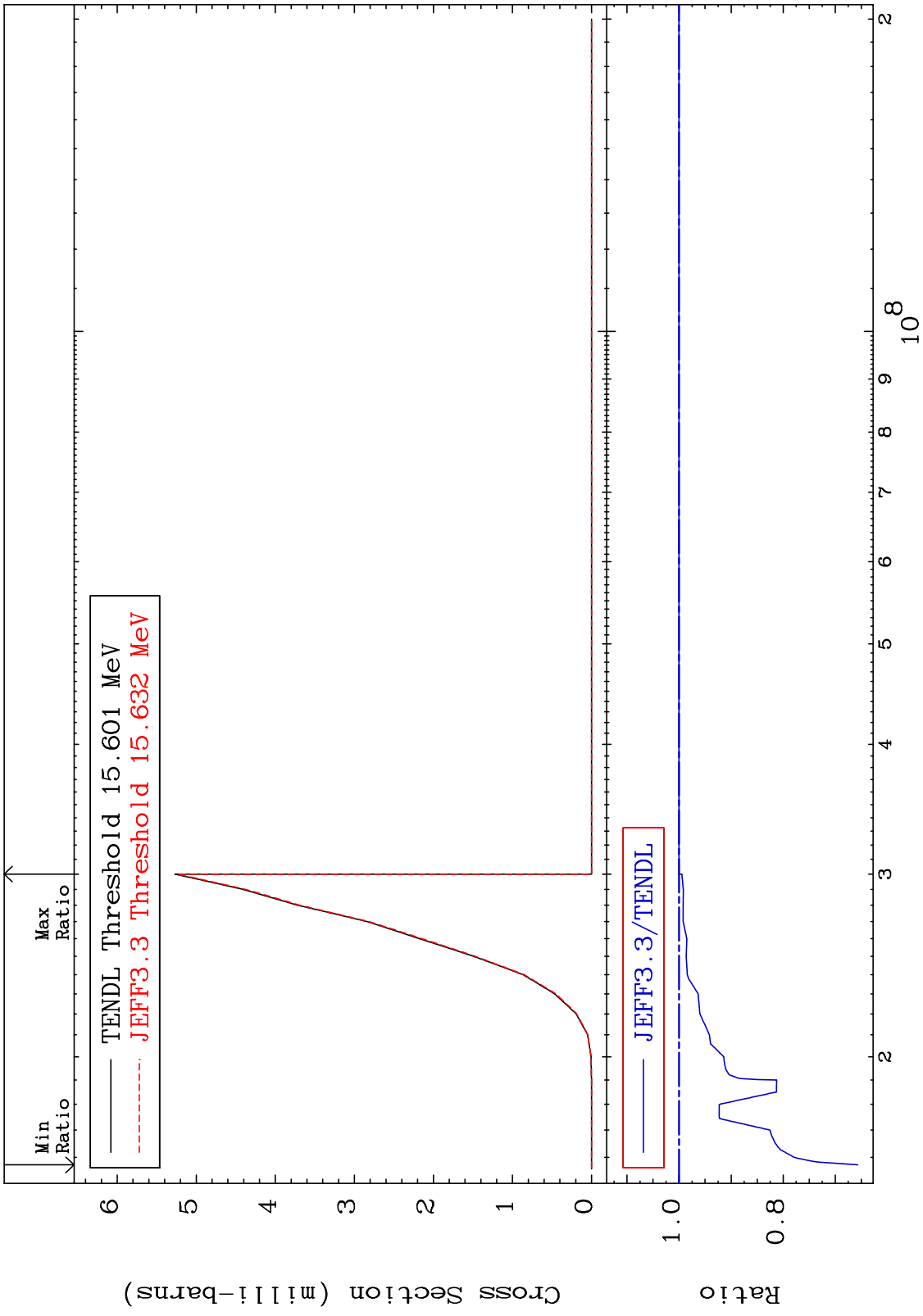
Incident Energy (eV)

46-Pd-102

MAT 4625 (n,n') p:45-Rh-101m1 46-Pd-102
Radionuclide Production Cross Section -43.93 To 0.597 %



MAT 4625 (n, n') d: 45-Rh-100g 46-Pd-102
 Radionuclide Production Cross Section -34.34 To 0.000 %

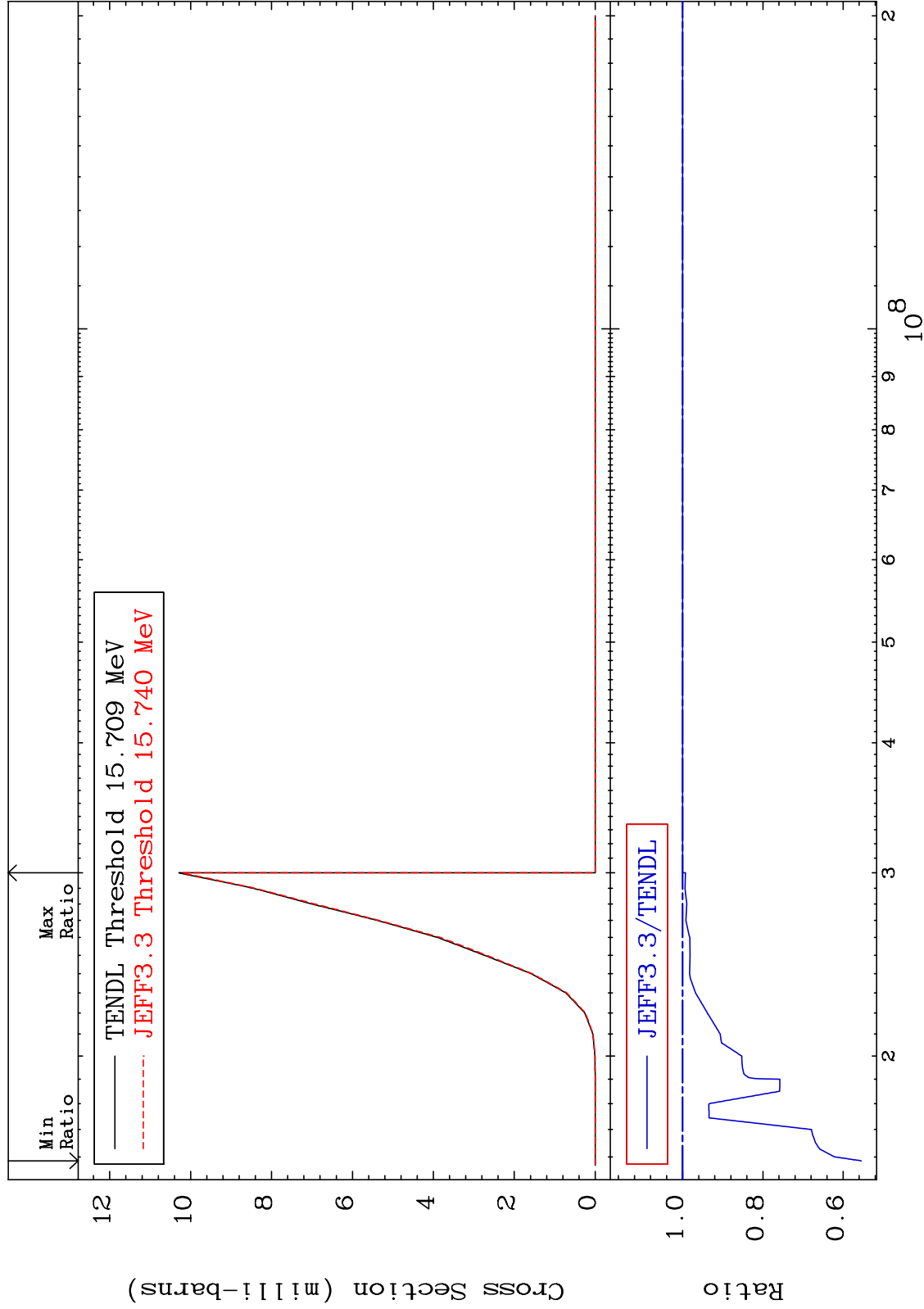


MAT 4625

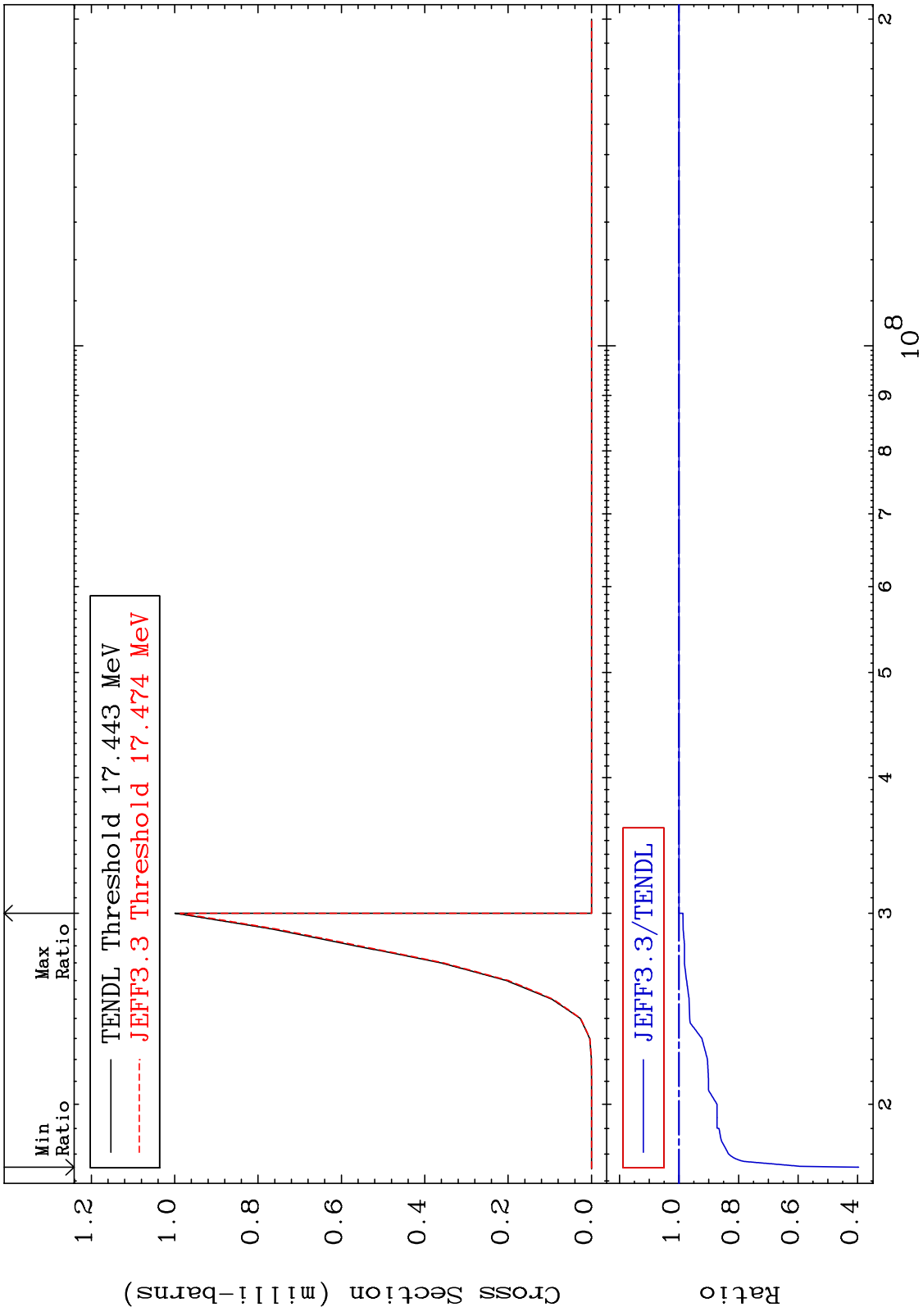
(n, n') d: 45-Rh-100m4

46-Pd-102

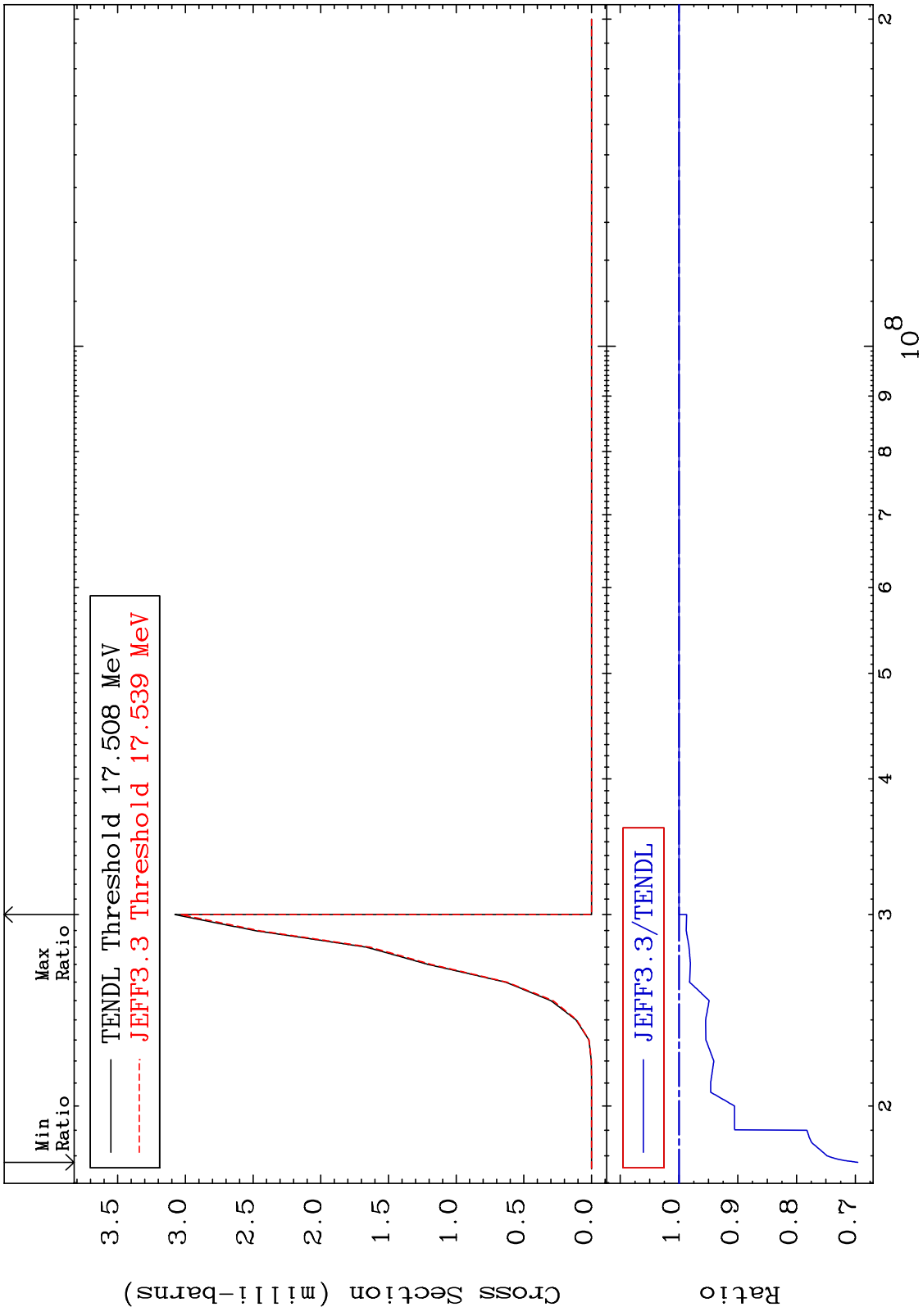
Radionuclide Production Cross Section -44.54 To 0.000 %



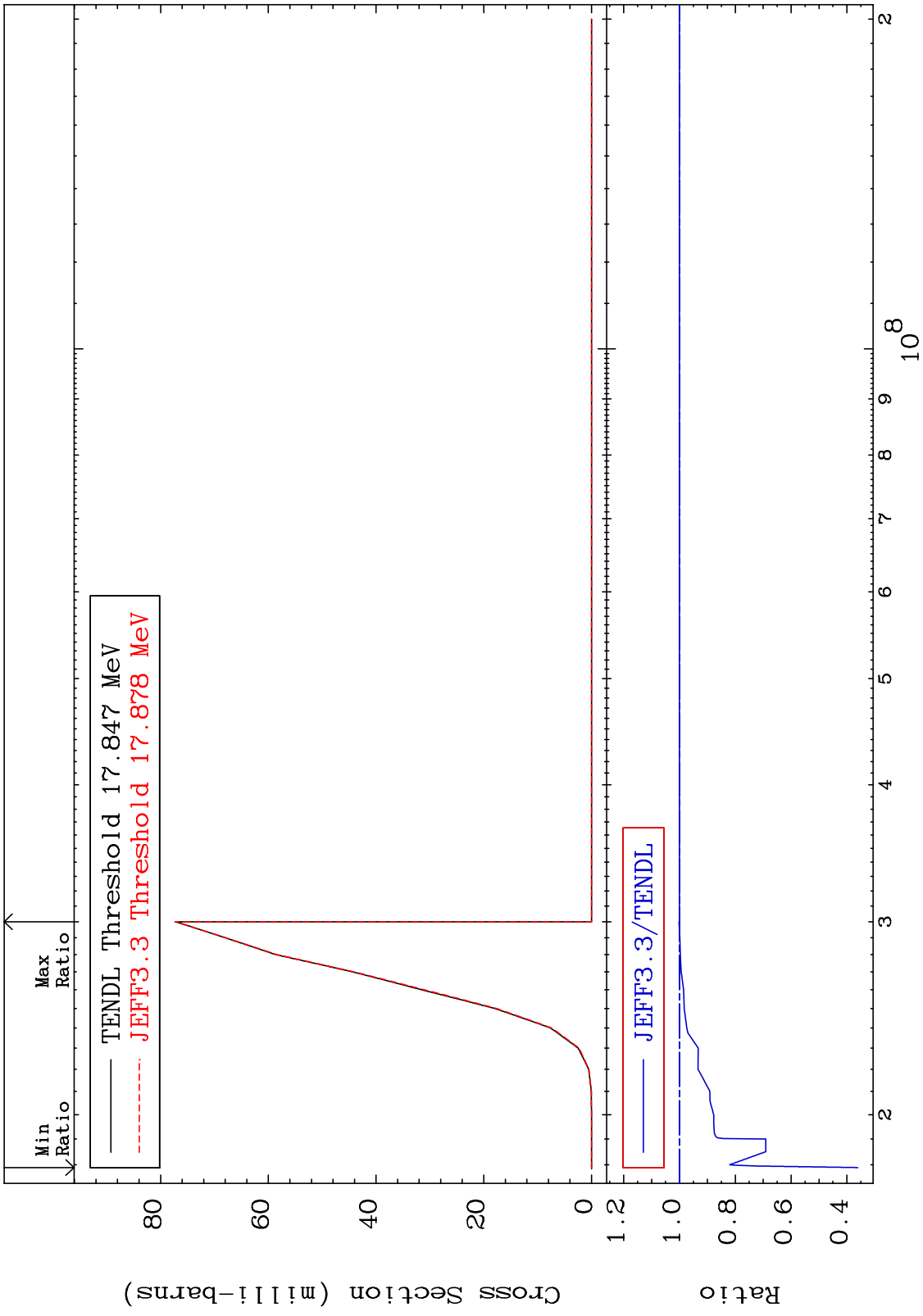
MAT 4625 (n, n') t: 45-Rh-99g 46-Pd-102
 Radionuclide Production Cross Section -60.09 To 0.000 %



MAT 4625 (n,n') t:45-Rh-99m1 46-Pd-102
 Radionuclide Production Cross Section -30.42 To 0.000 %



MAT 4625 (n,2n) p:45-Rh-100g 46-Pd-102
 Radionuclide Production Cross Section -63.91 To 0.149 %

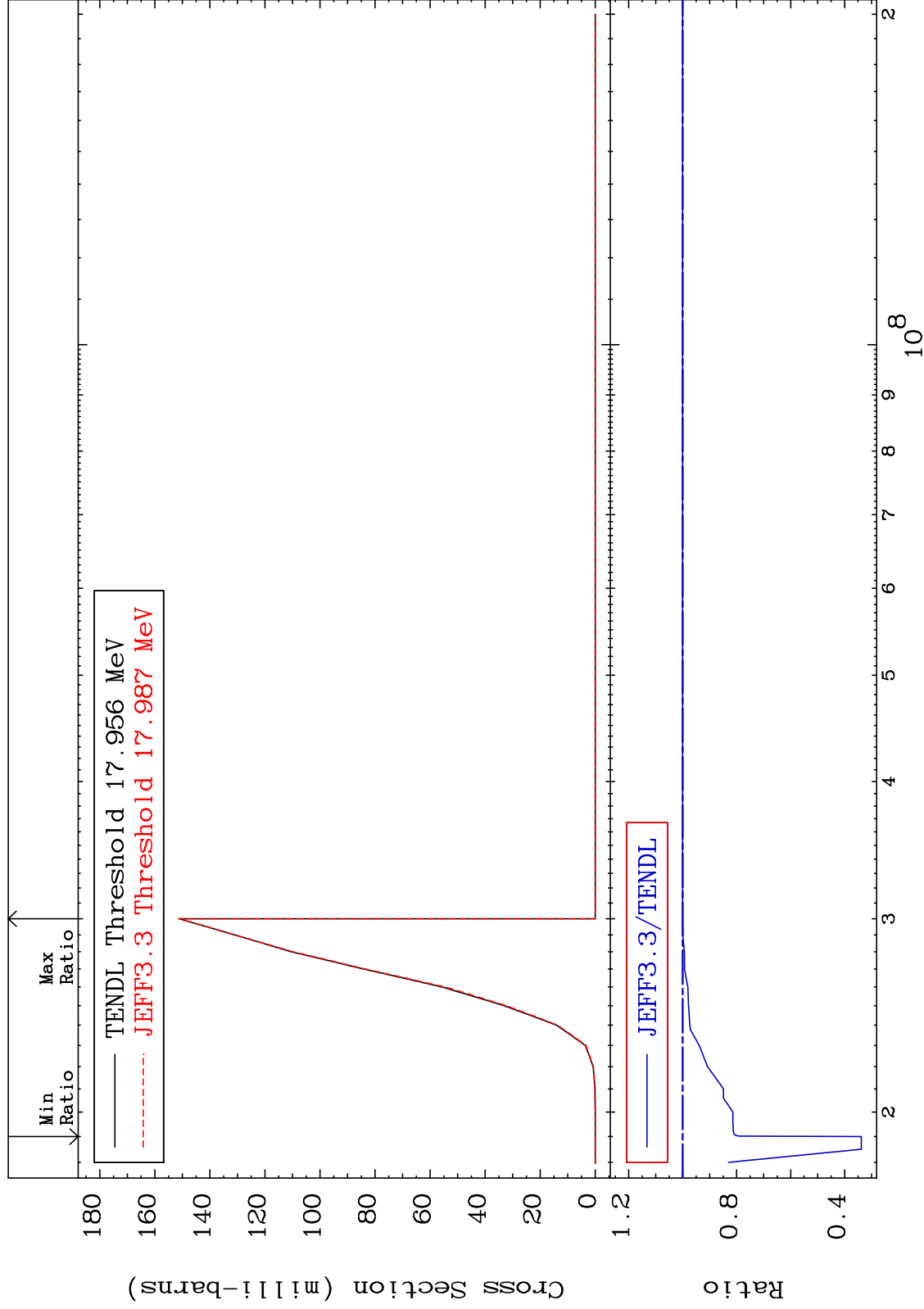


MAT 4625

(n,2n) p:45-Rh-100m4

46-Pd-102

Radionuclide Production Cross Section -66.21 To 0.015 %

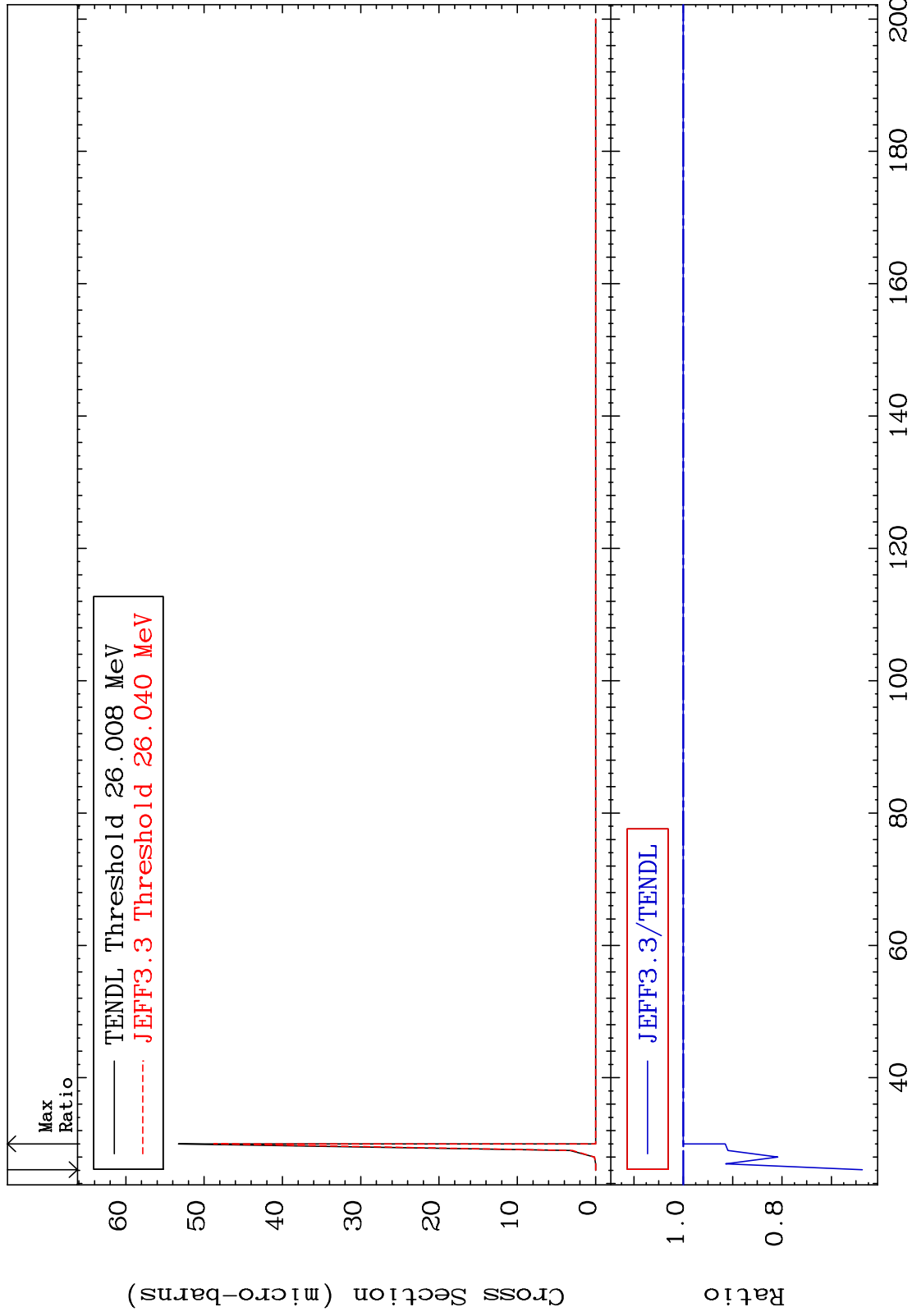


MAT 4625

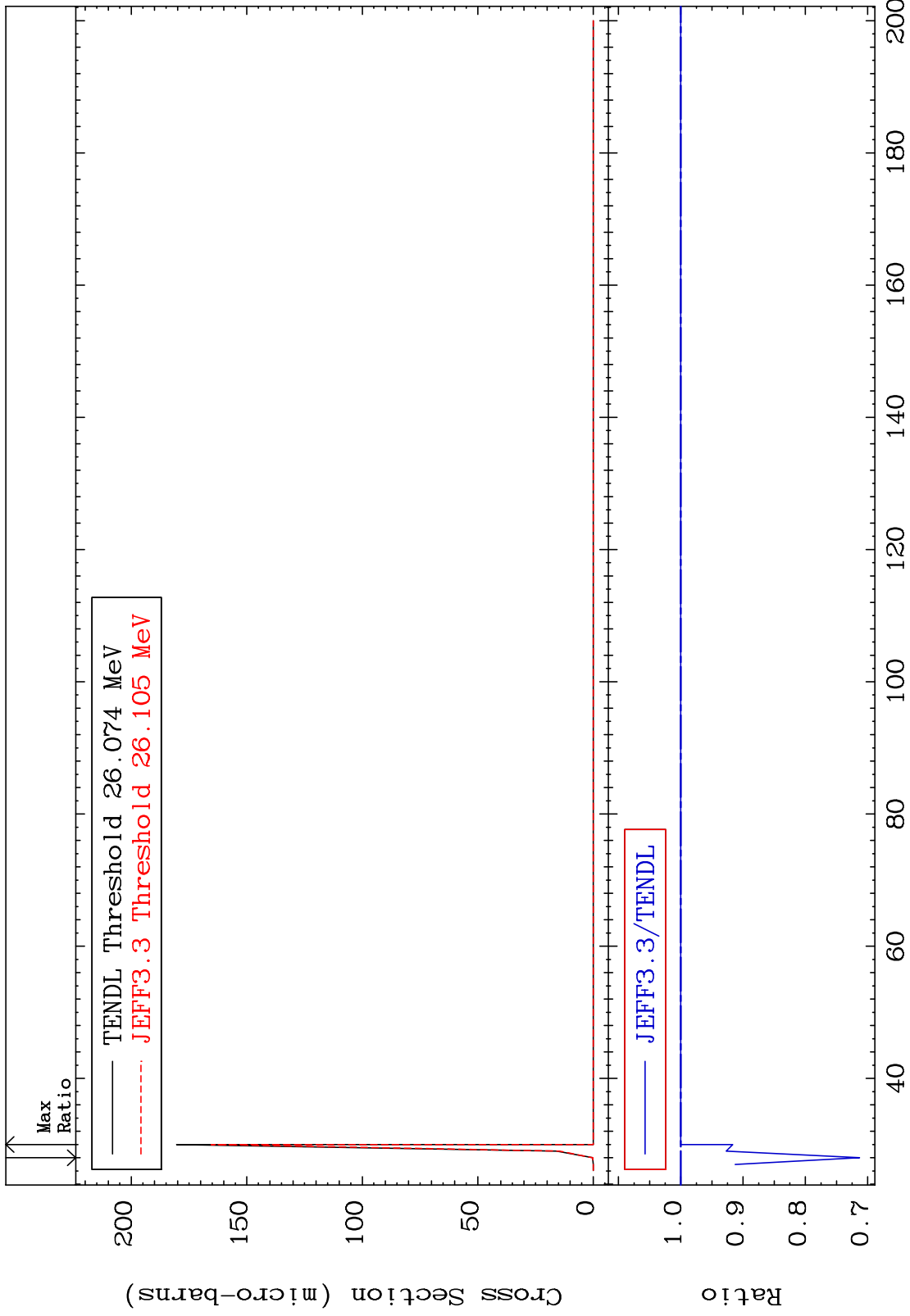
(n, 3n) p:45-Rh-99g

46-Pd-102

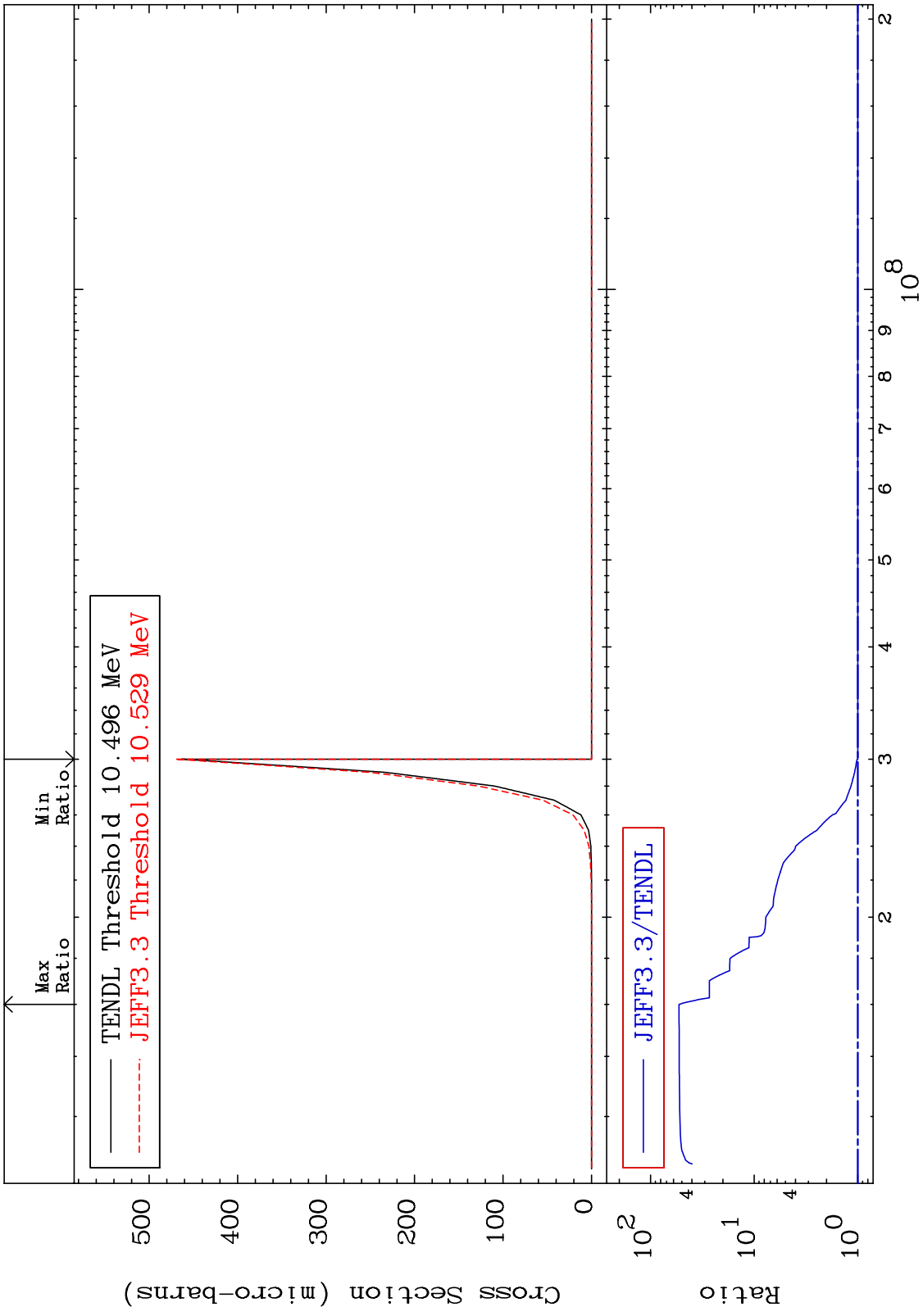
Radionuclide Production Cross Section -36.28 To 0.000 %



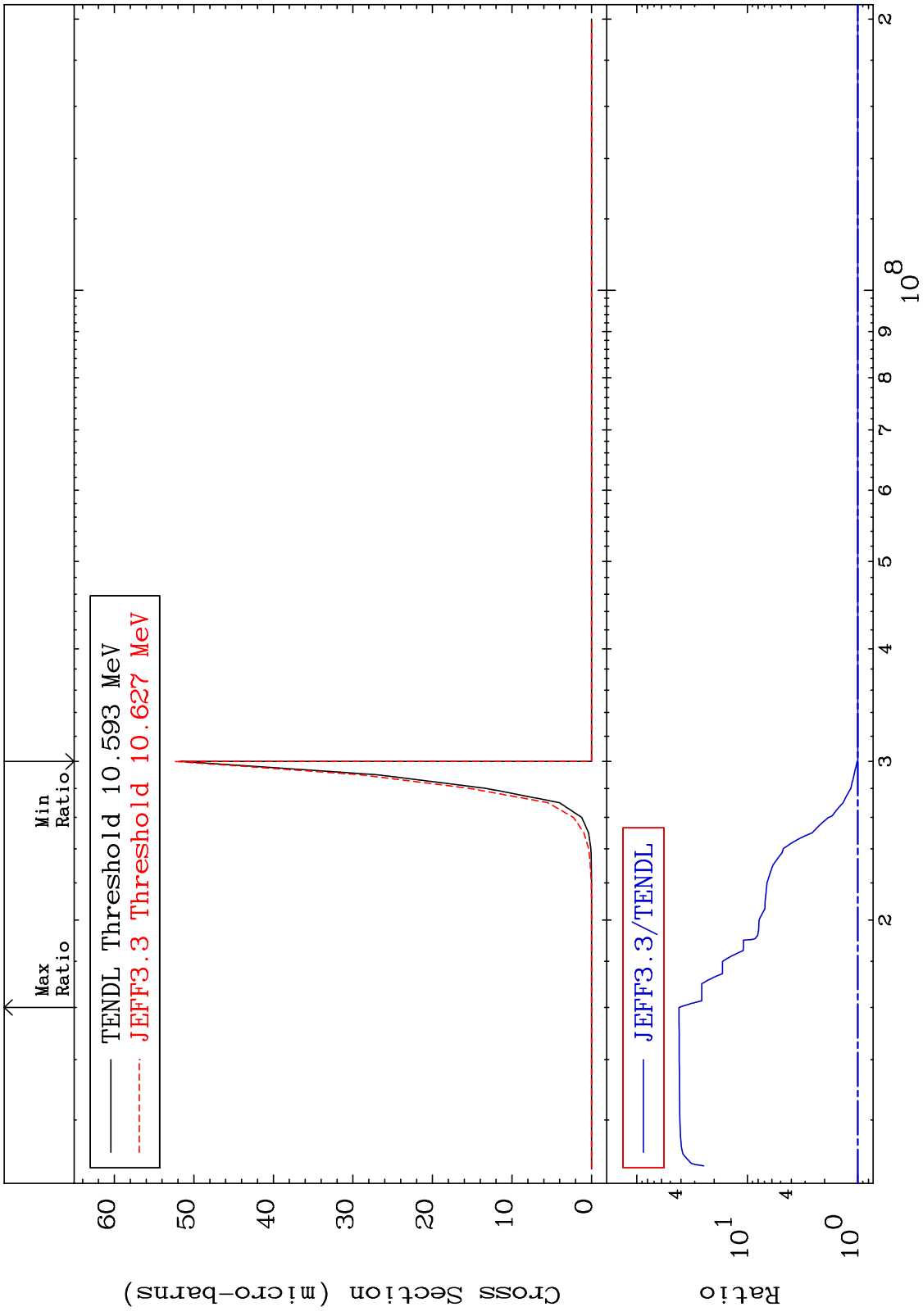
MAT 4625 (n,3n) p:45-Rh-99m1 46-Pd-102
Radionuclide Production Cross Section -28.69 To 0.000 %



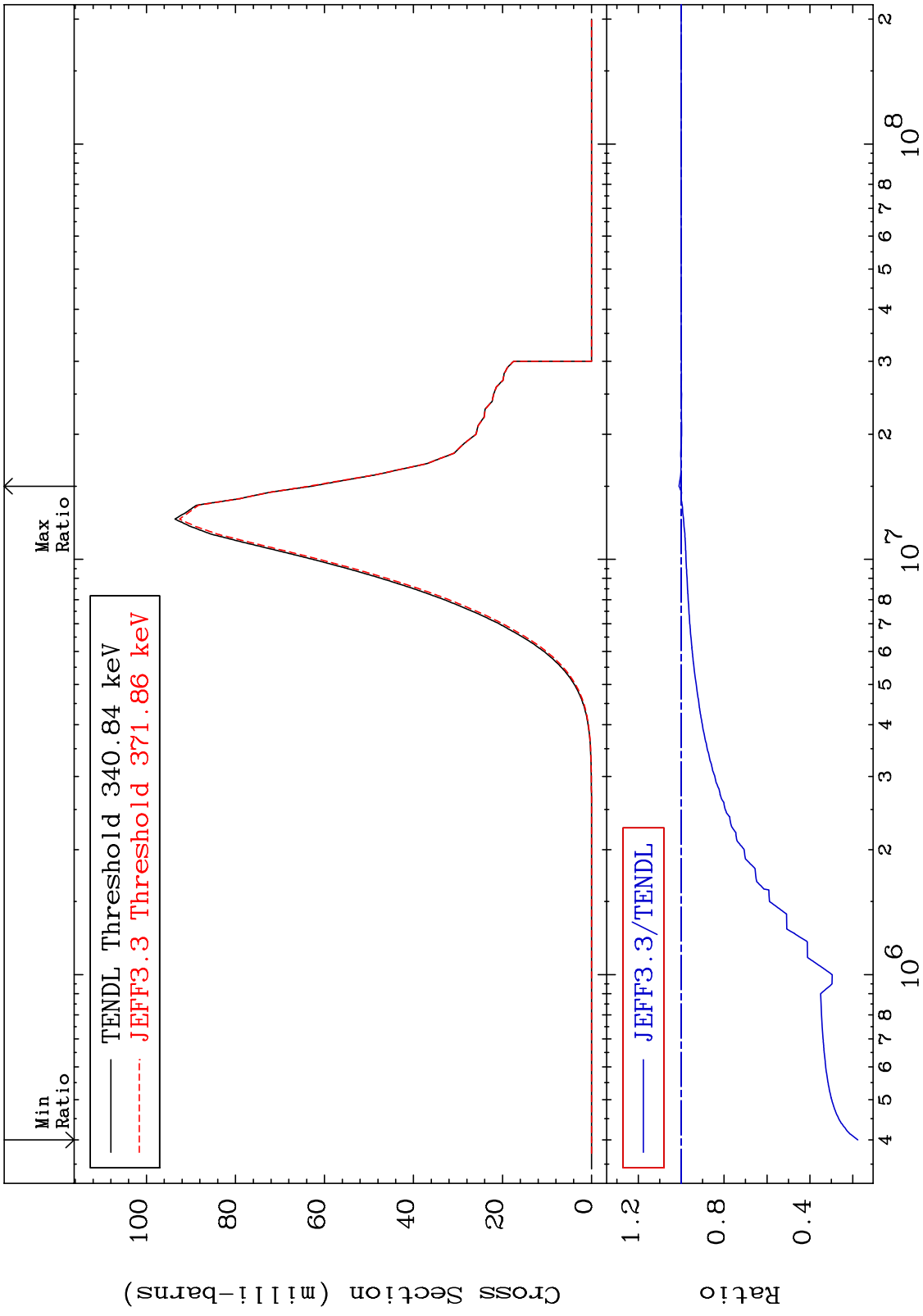
MAT 4625 (n,n') p α:43-Tc-97g 46-Pd-102
 Radionuclide Production Cross Section 0.000 To 5210. %



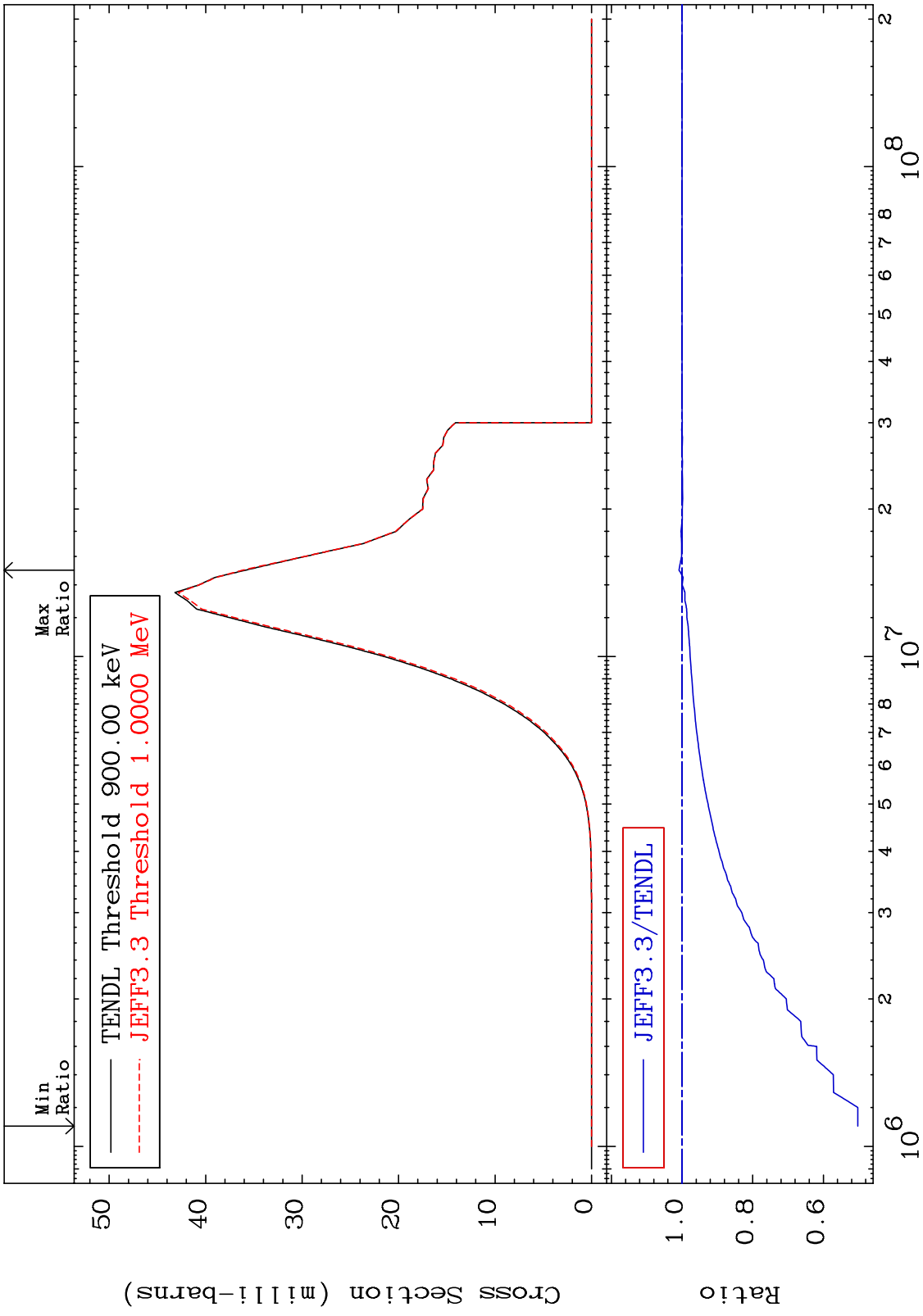
MAT 4625 (n,n') p α:43-Tc-97m1 46-Pd-102
 Radionuclide Production Cross Section 0.000 To 4053. %



MAT 4625 (n,p) : 45-Rh-102g 46-Pd-102
 Radionuclide Production Cross Section -82.39 To 1.011 %



MAT 4625 (n,p):45-Rh-102m5 46-Pd-102
 Radionuclide Production Cross Section -49.76 To 0.855 %

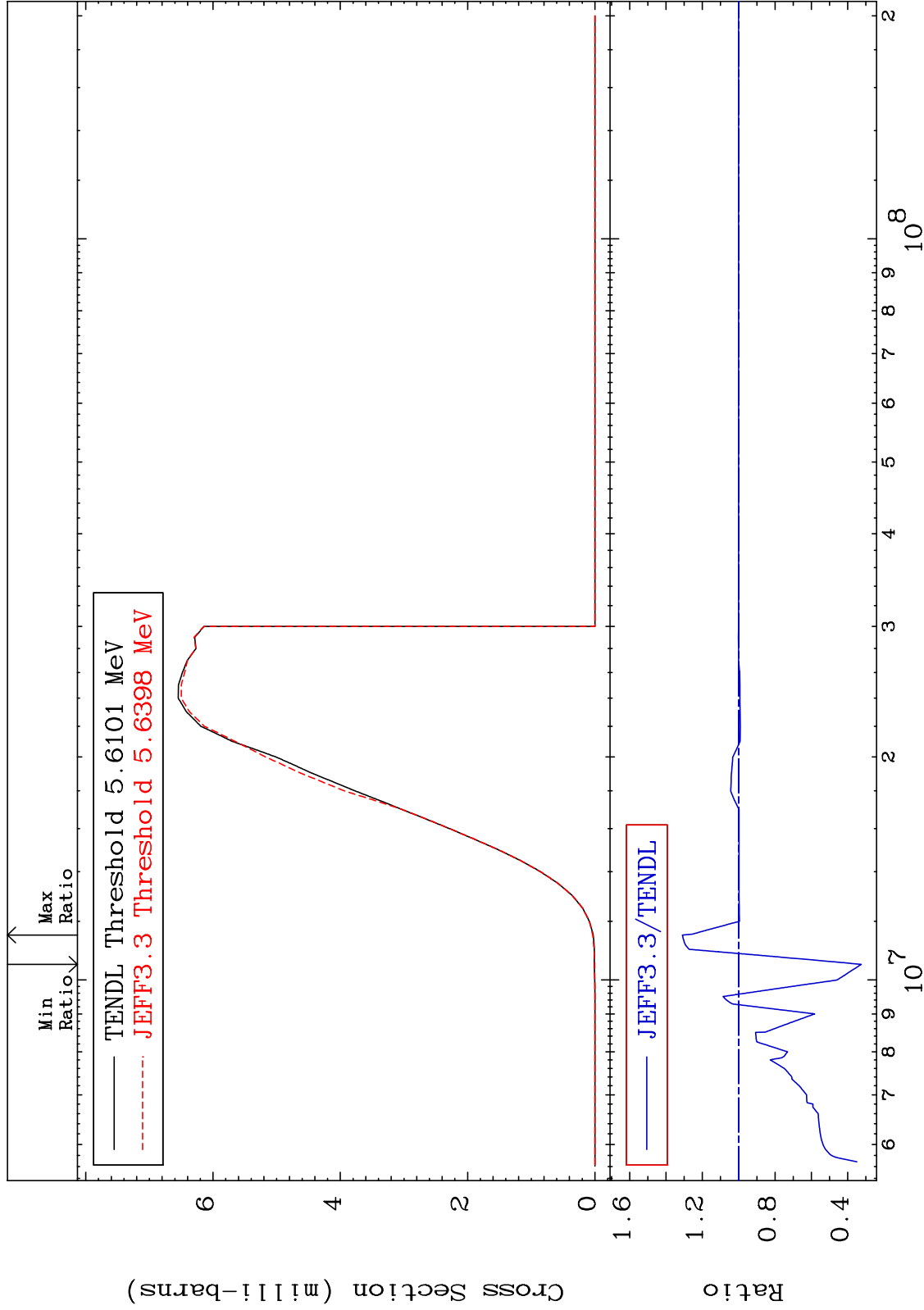


MAT 4625

(n,d) : 45-Rh-101g

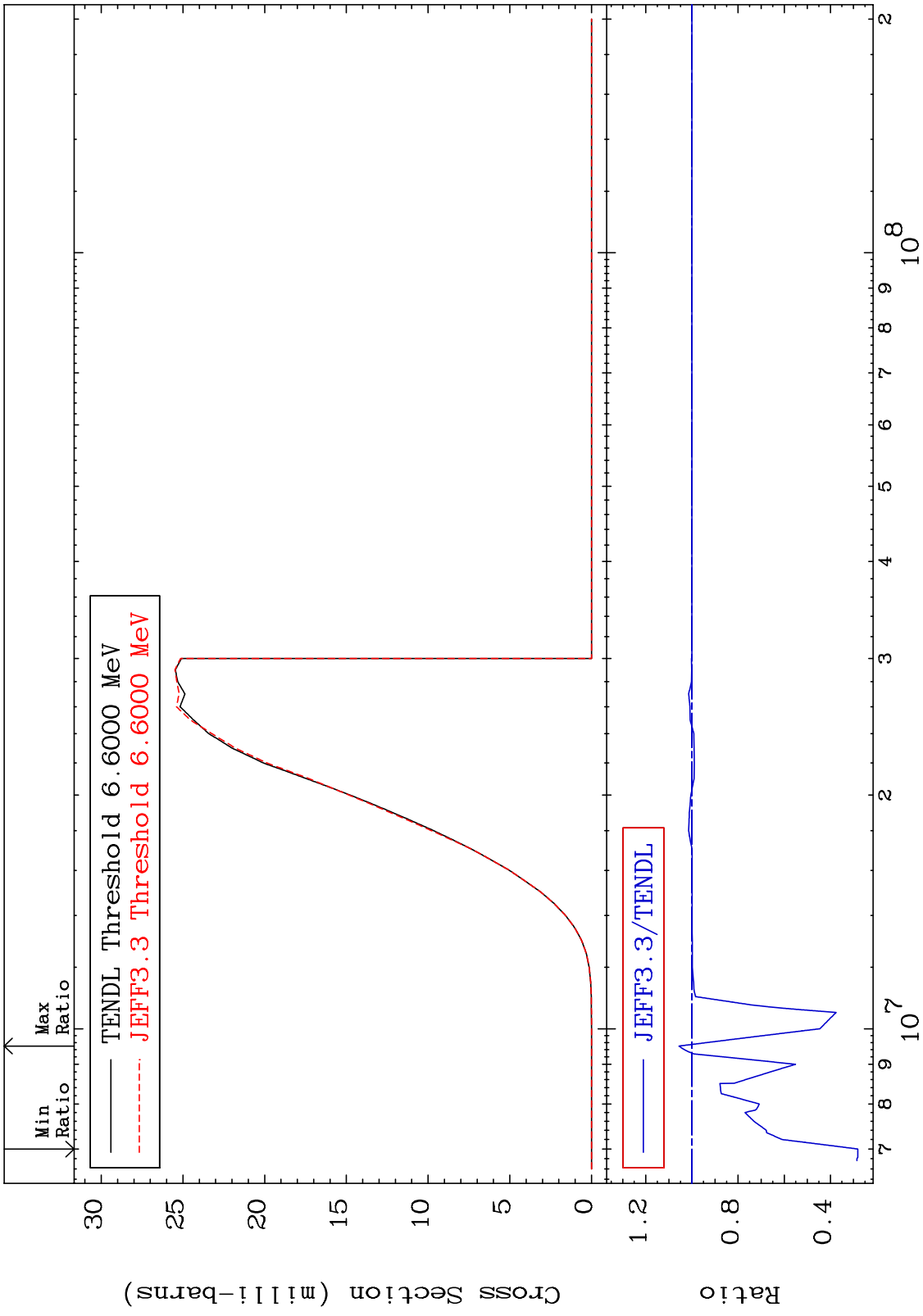
46-Pd-102

Radionuclide Production Cross Section -67.49 To 30.94 %

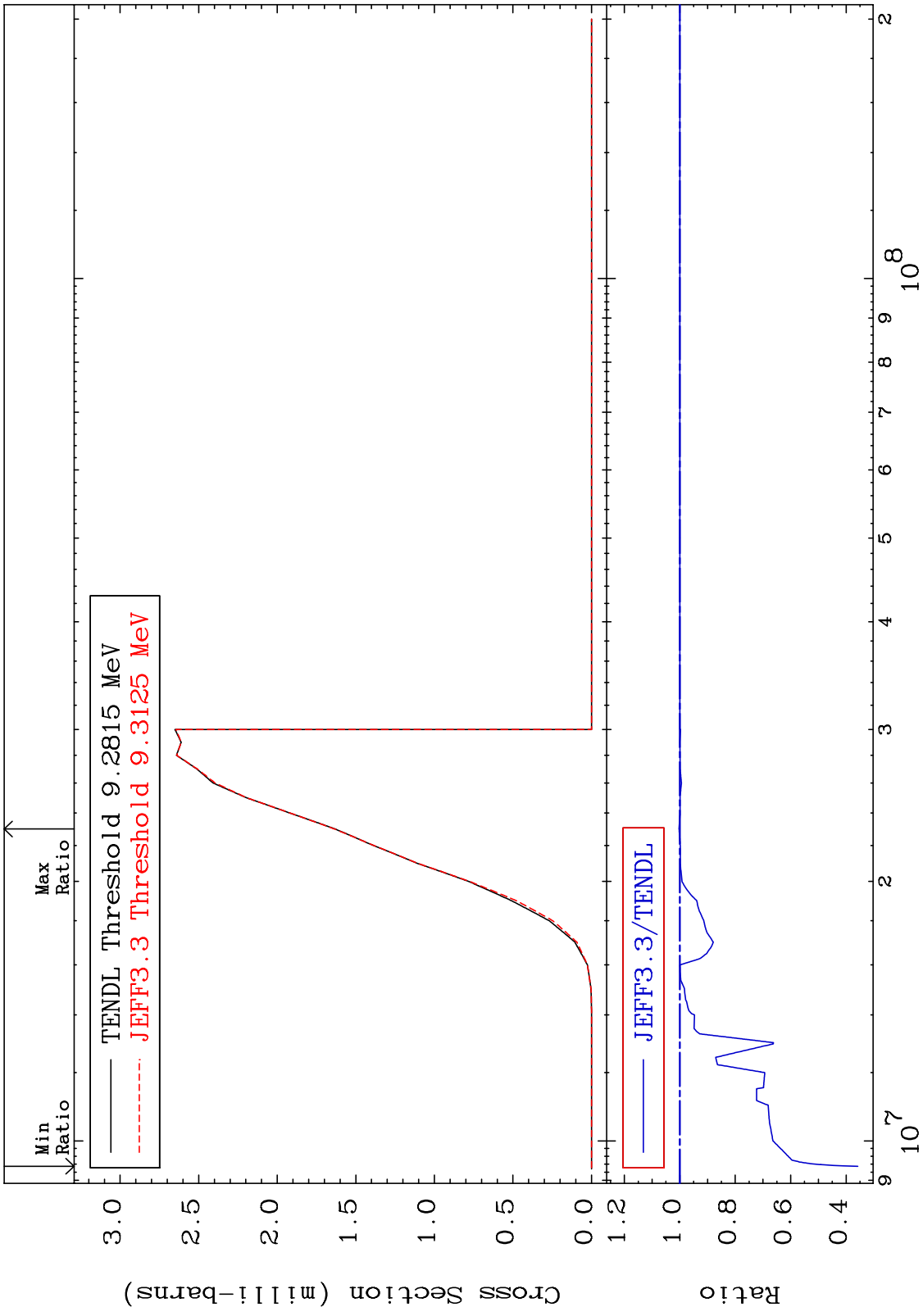


95

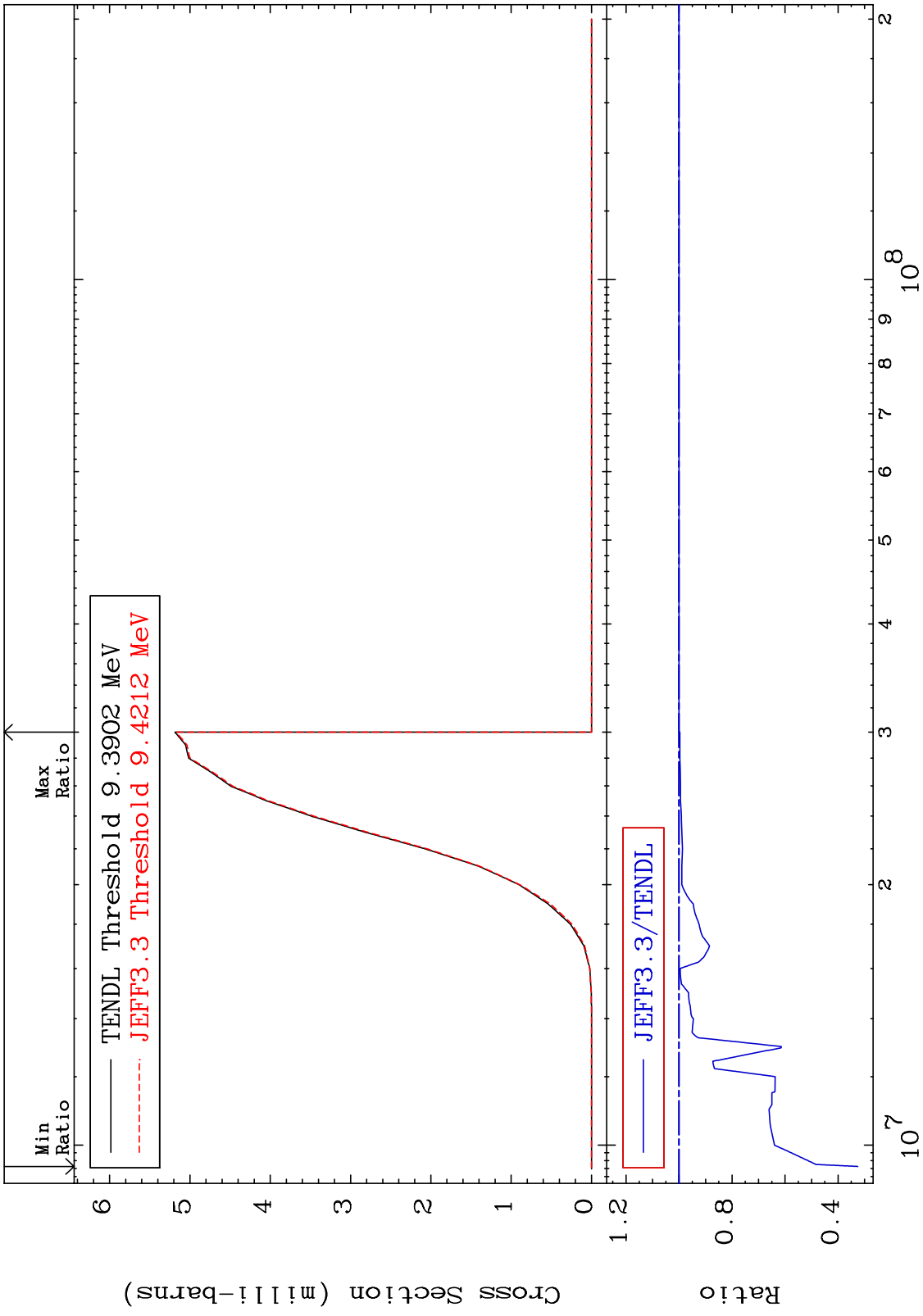
MAT 4625 (n,d):45-Rh-101m1 46-Pd-102
 Radionuclide Production Cross Section -71.89 To 5.595 %



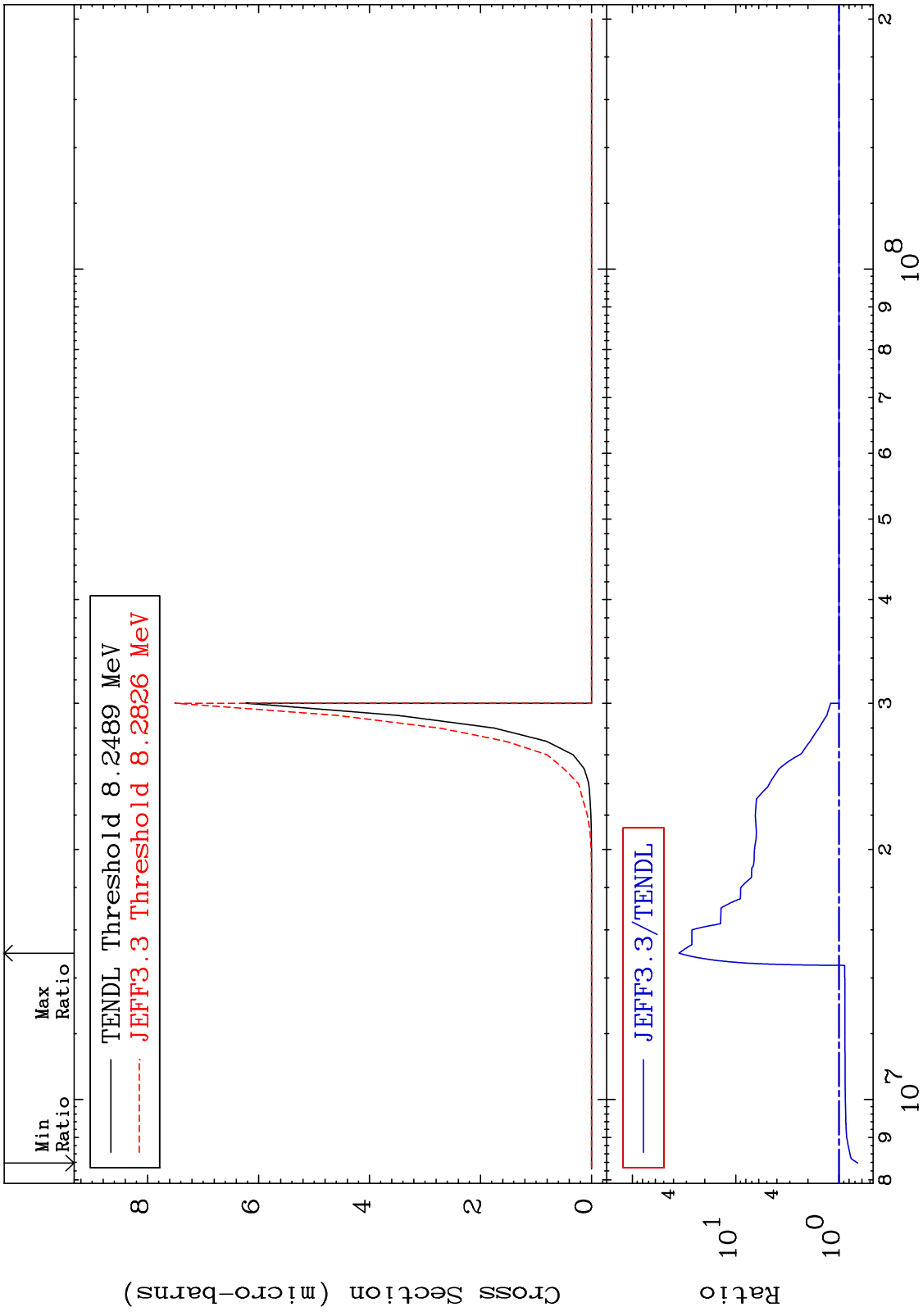
MAT 4625 (n,t): 45-Rh-100g 46-Pd-102
 Radionuclide Production Cross Section -64.23 To 0.281 %



MAT 4625 (n, t) : 45-Rh-100m4 46-Pd-102
 Radionuclide Production Cross Section -67.45 To 0.000 %



MAT 4625 (n,d) α :43-Tc-97g 46-Pd-102
 Radionuclide Production Cross Section -34.27 To 3442. %

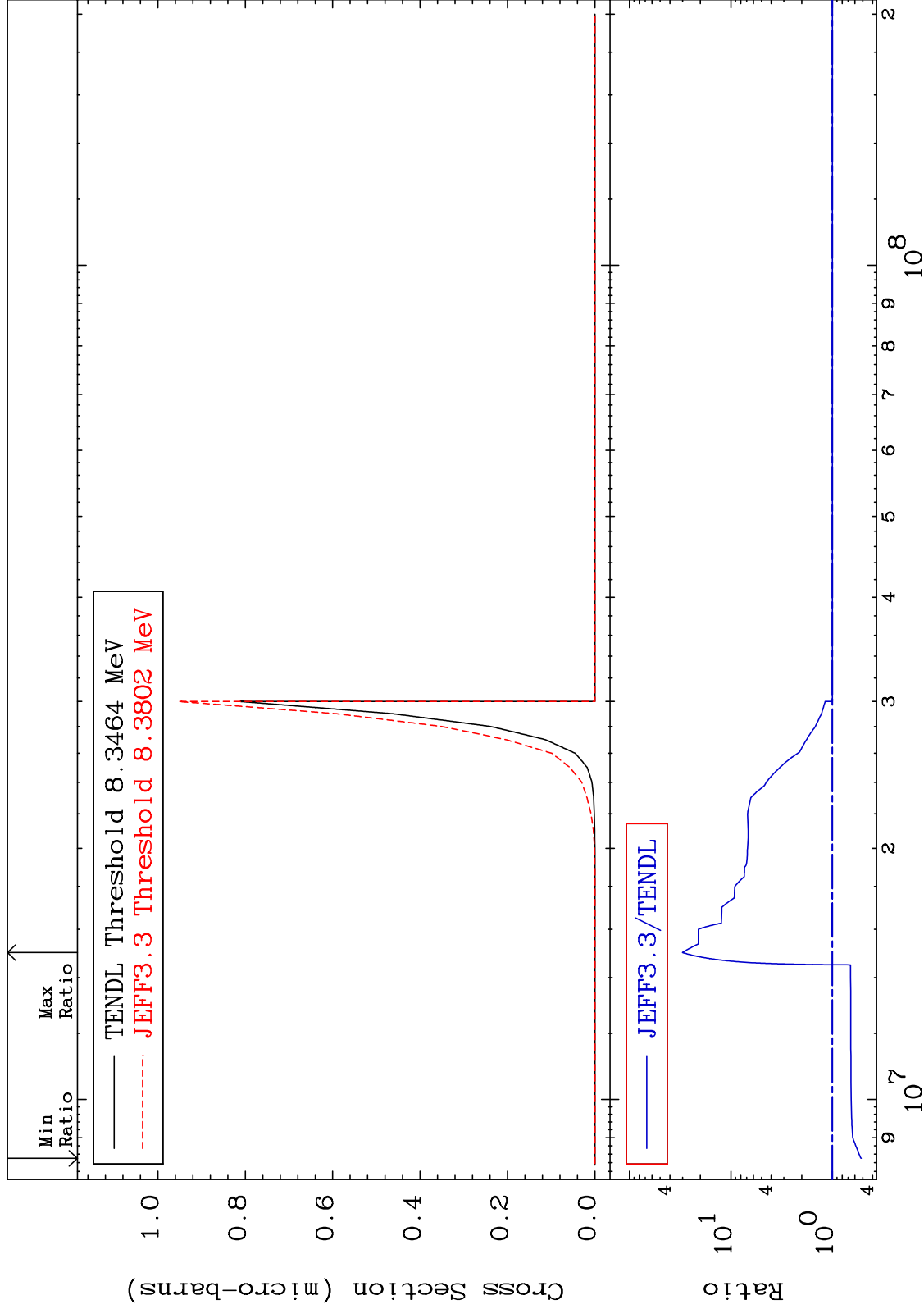


MAT 4625

(n, d) α : 43-Tc-97m1

46-Pd-102

Radionuclide Production Cross Section -48.21 To 2906. %



100

Incident Energy (eV)

46-Pd-102