

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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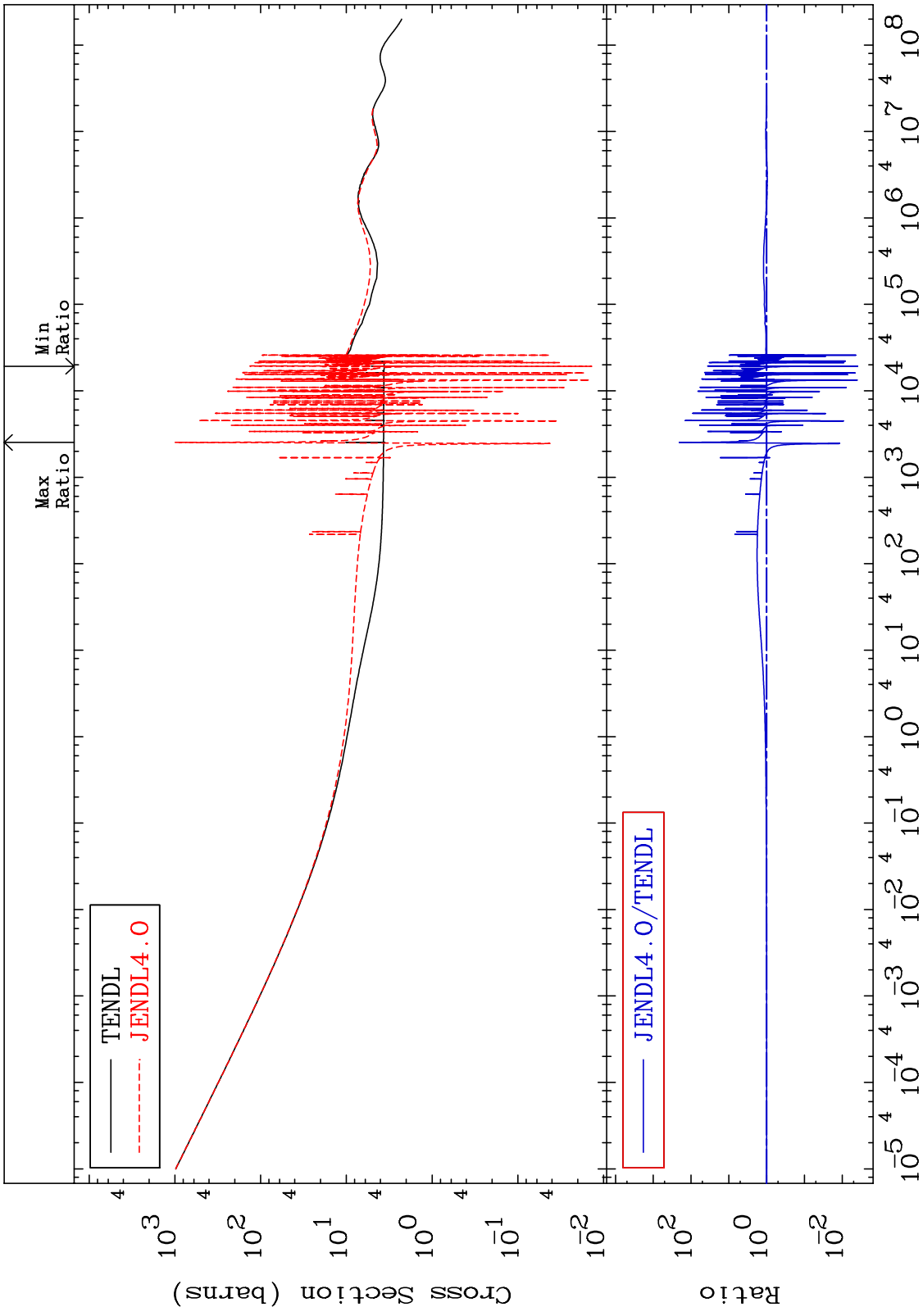
U.S.A.

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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

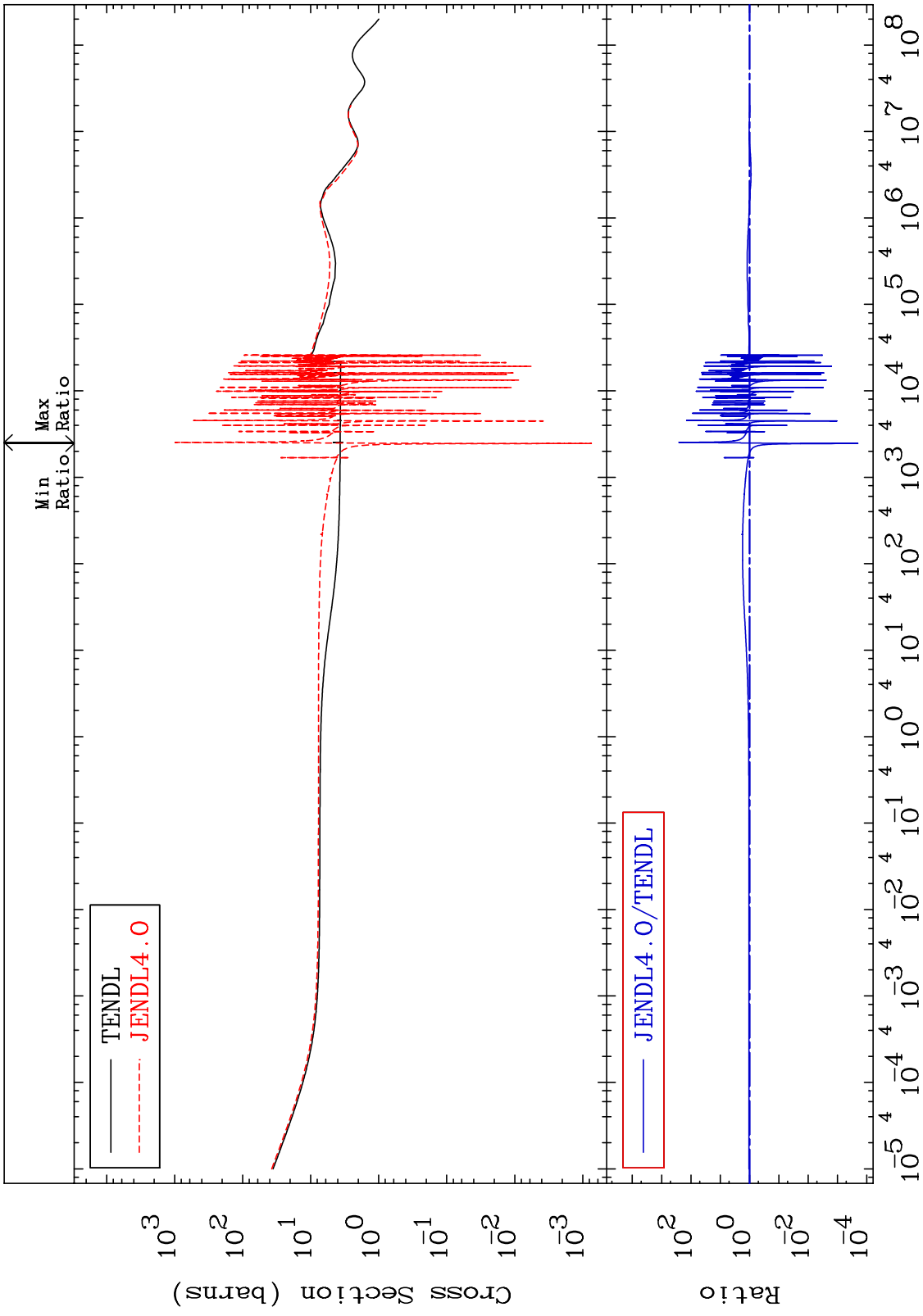
Press Mouse Button to Start

MAT 6025 Total Cross Section 60-Nd-142 -99.61 To 9999. %



1 Incident Energy (eV) 60-Nd-142

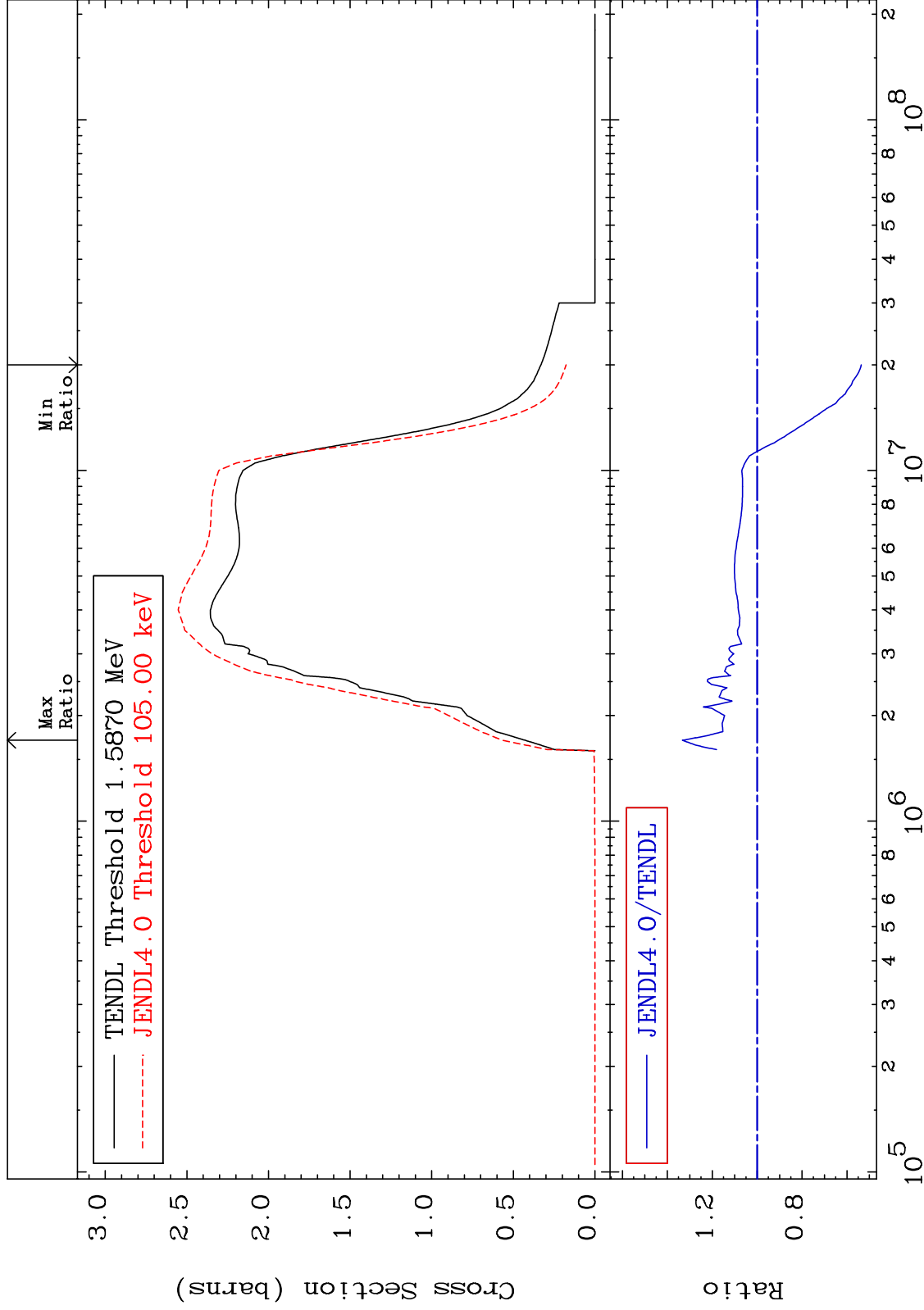
MAT 6025 Elastic Cross Section 60-Nd-142 -99.98 To 9999. %



MAT 6025

Inelastic  
Cross Section

60-Nd-142  
-46.37 To 33.26 %

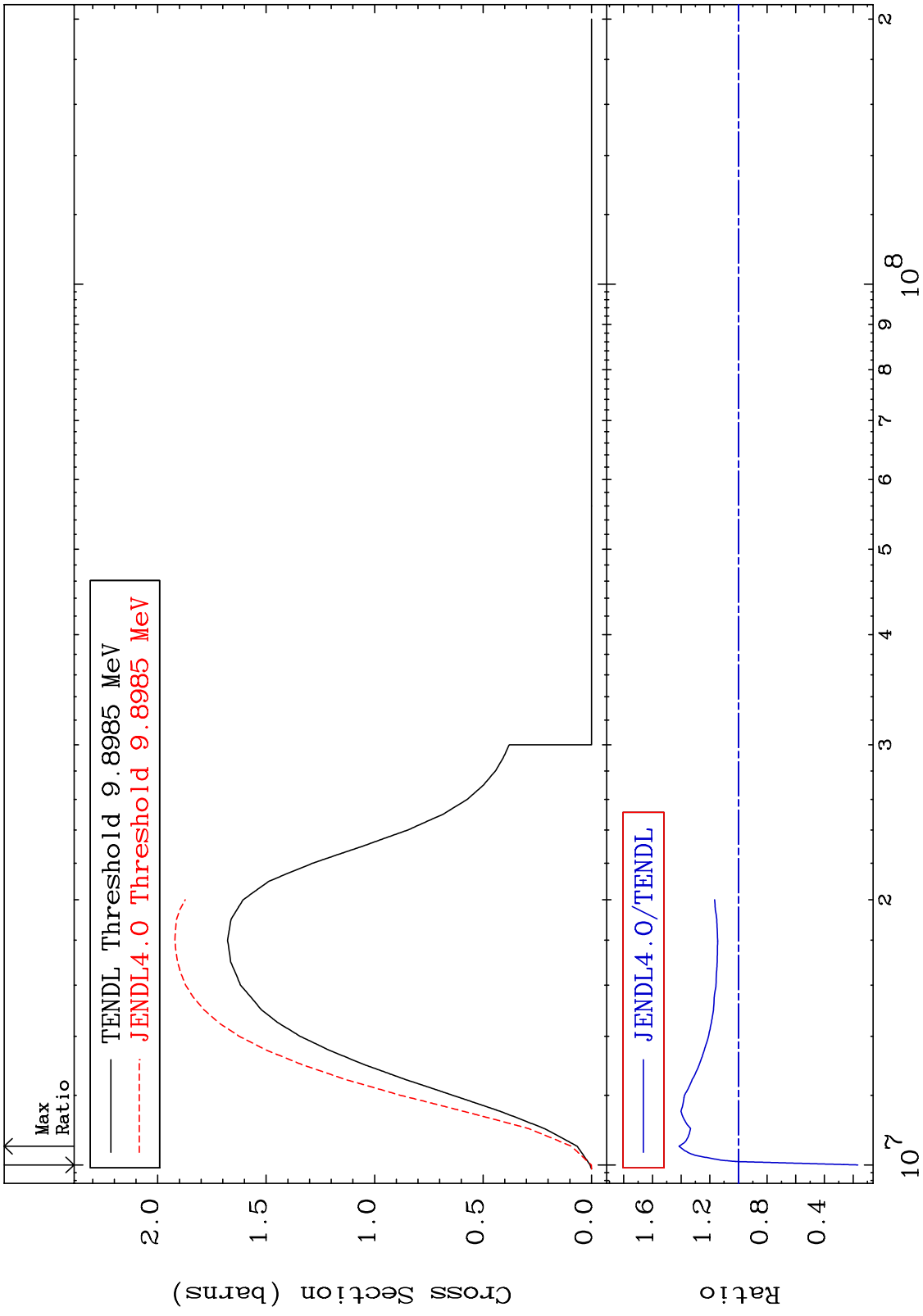


60-Nd-142

Incident Energy (eV)

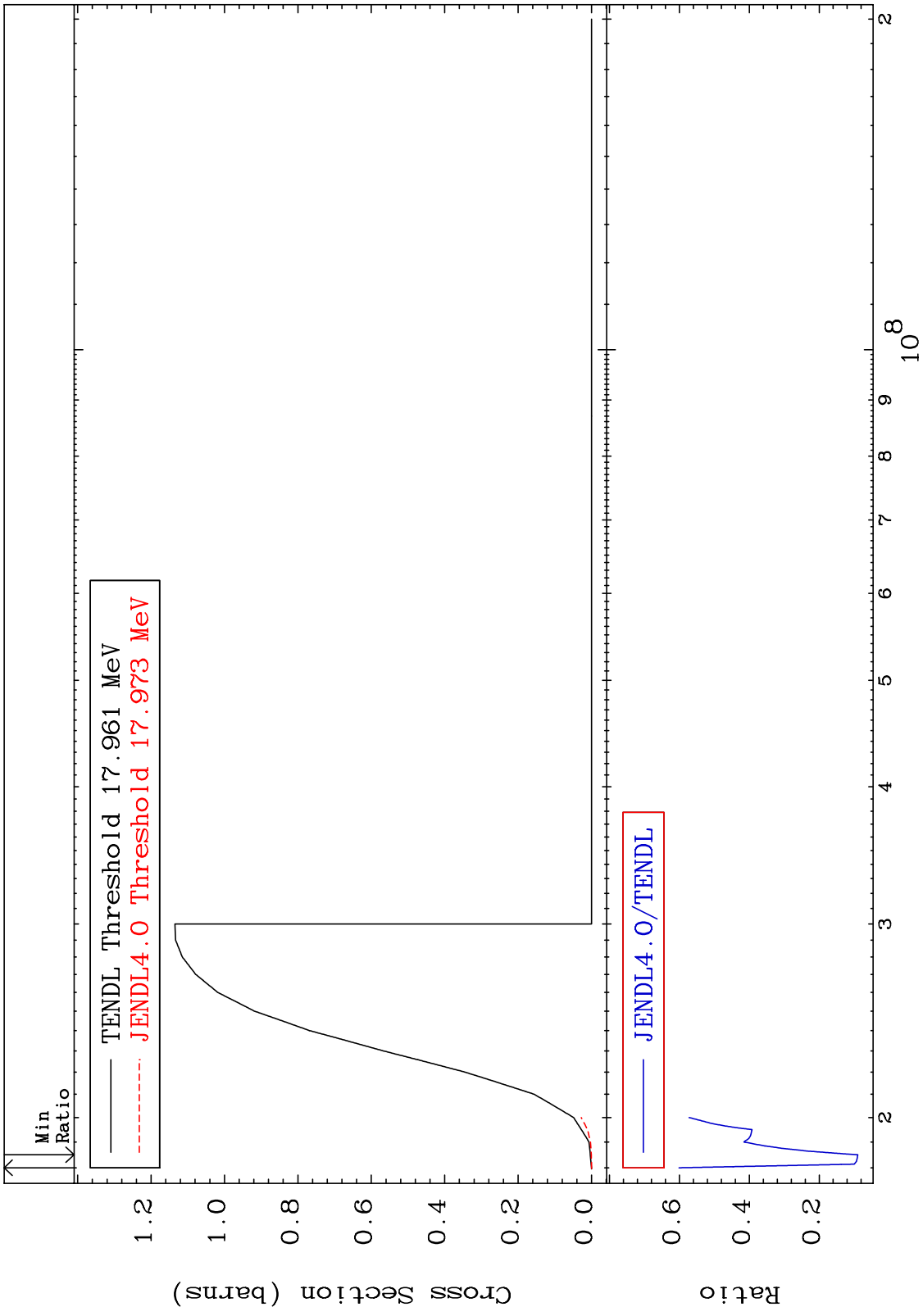
3

MAT 6025 (n,2n) Cross Section 60-Nd-142 -83.29 To 41.43 %

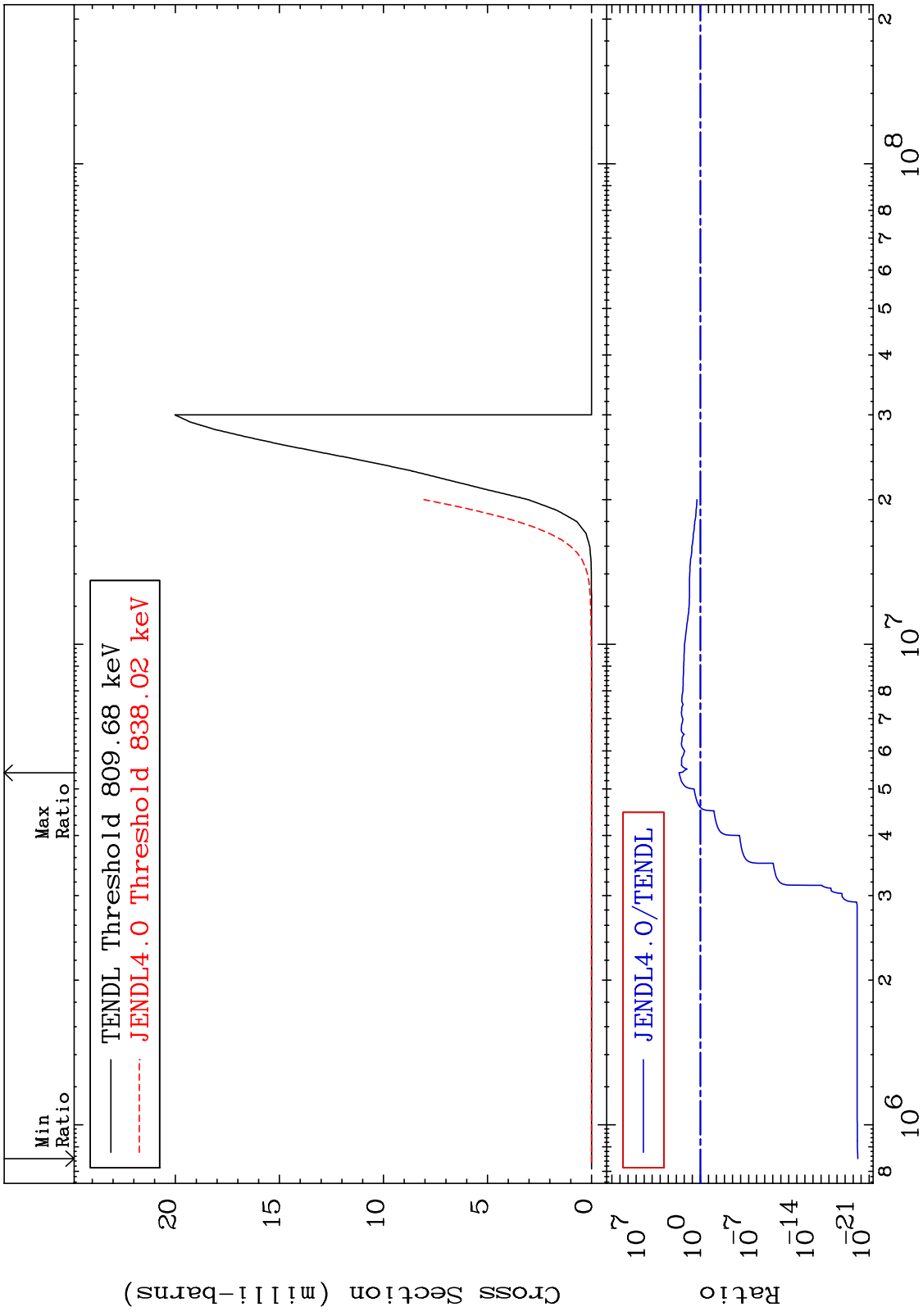


60-Nd-142

MAT 6025 (n,3n) Cross Section 60-Nd-142 -91.05 To -39.90%

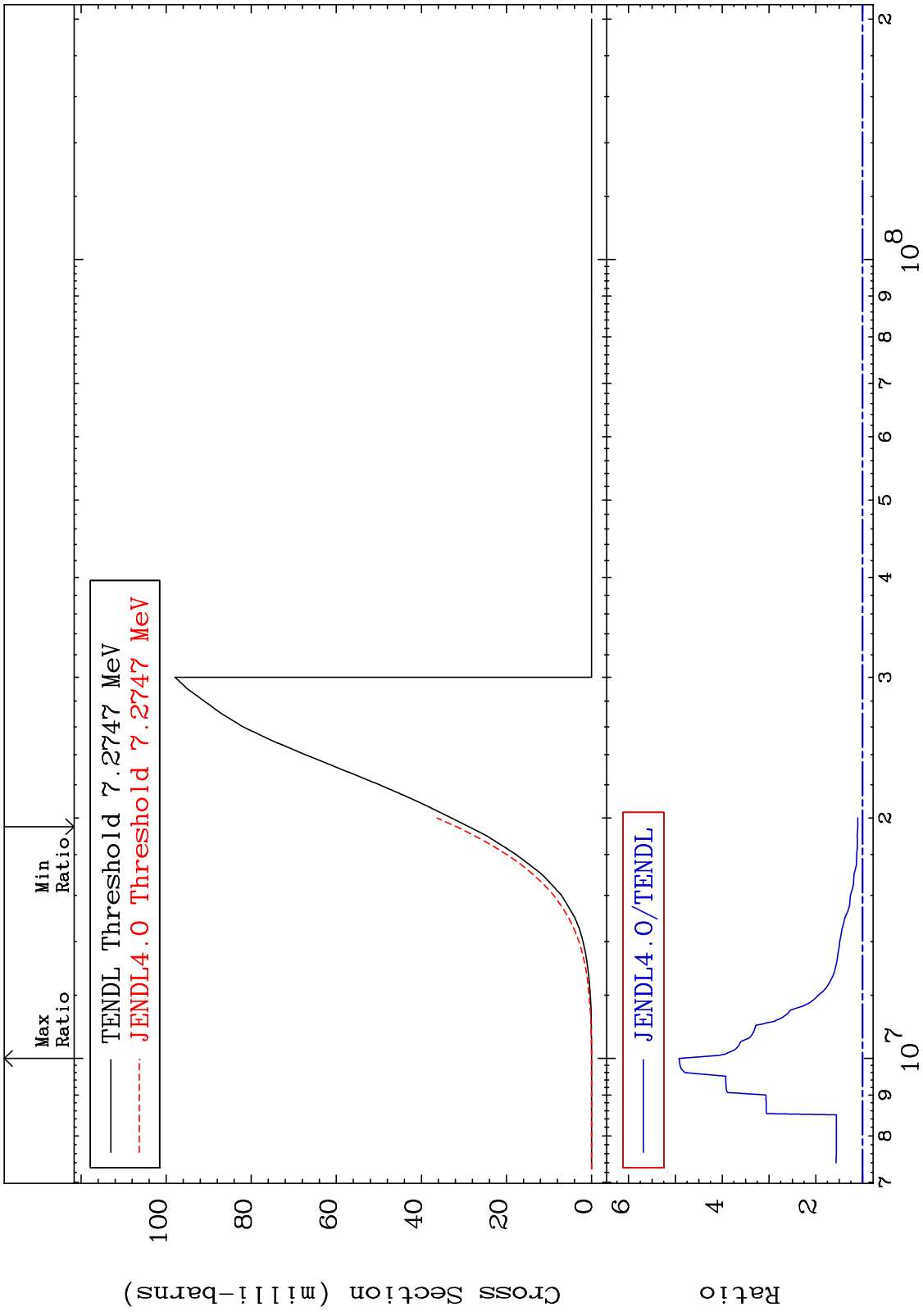


MAT 6025  $(n, n') \alpha$   $^{60}\text{Nd-142}$   
 Cross Section -100.0 To 9999. %



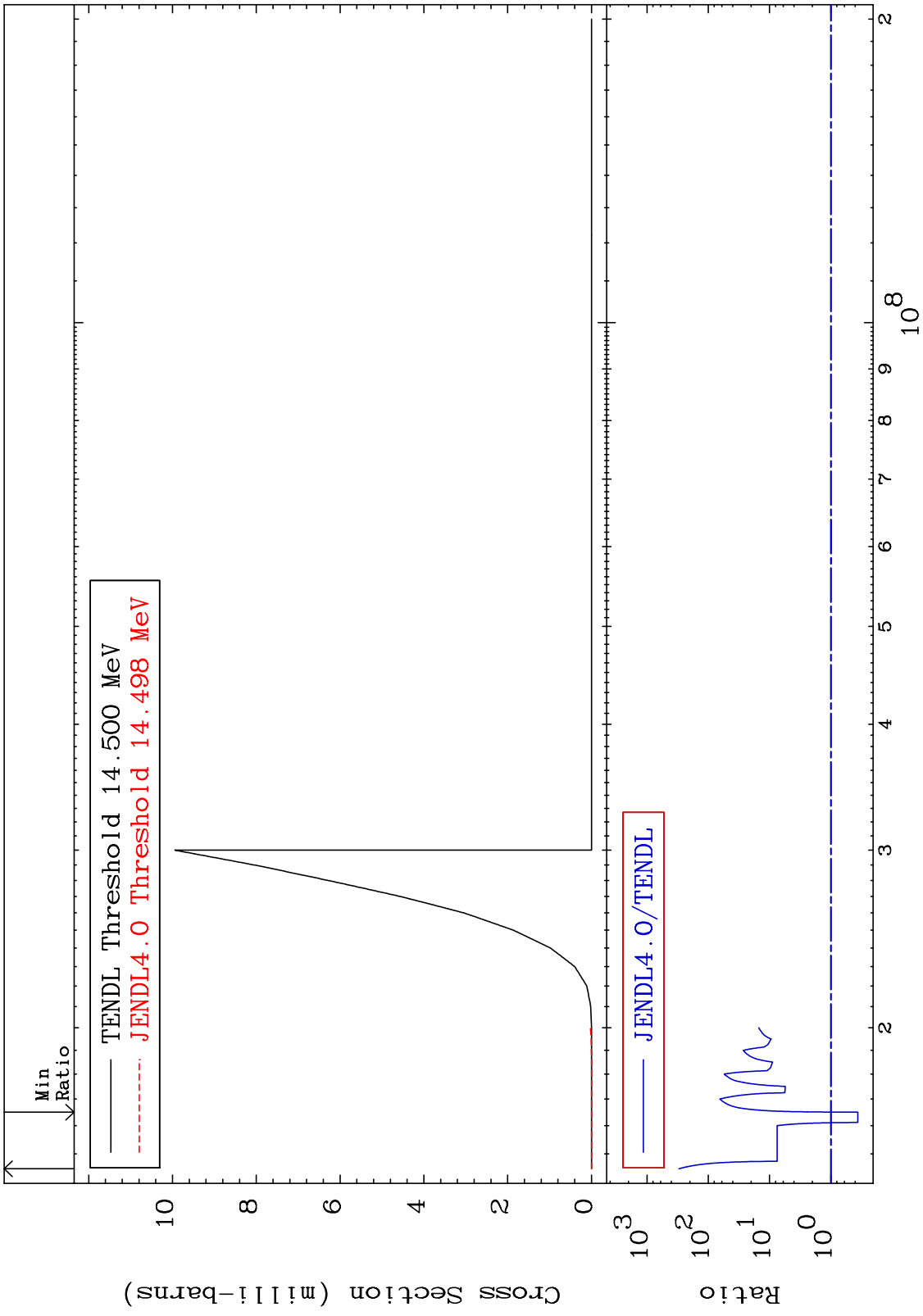
6  $^{60}\text{Nd-142}$

MAT 6025 (n,n') p 60-Nd-142  
Cross Section 9.980 To 392.1 %

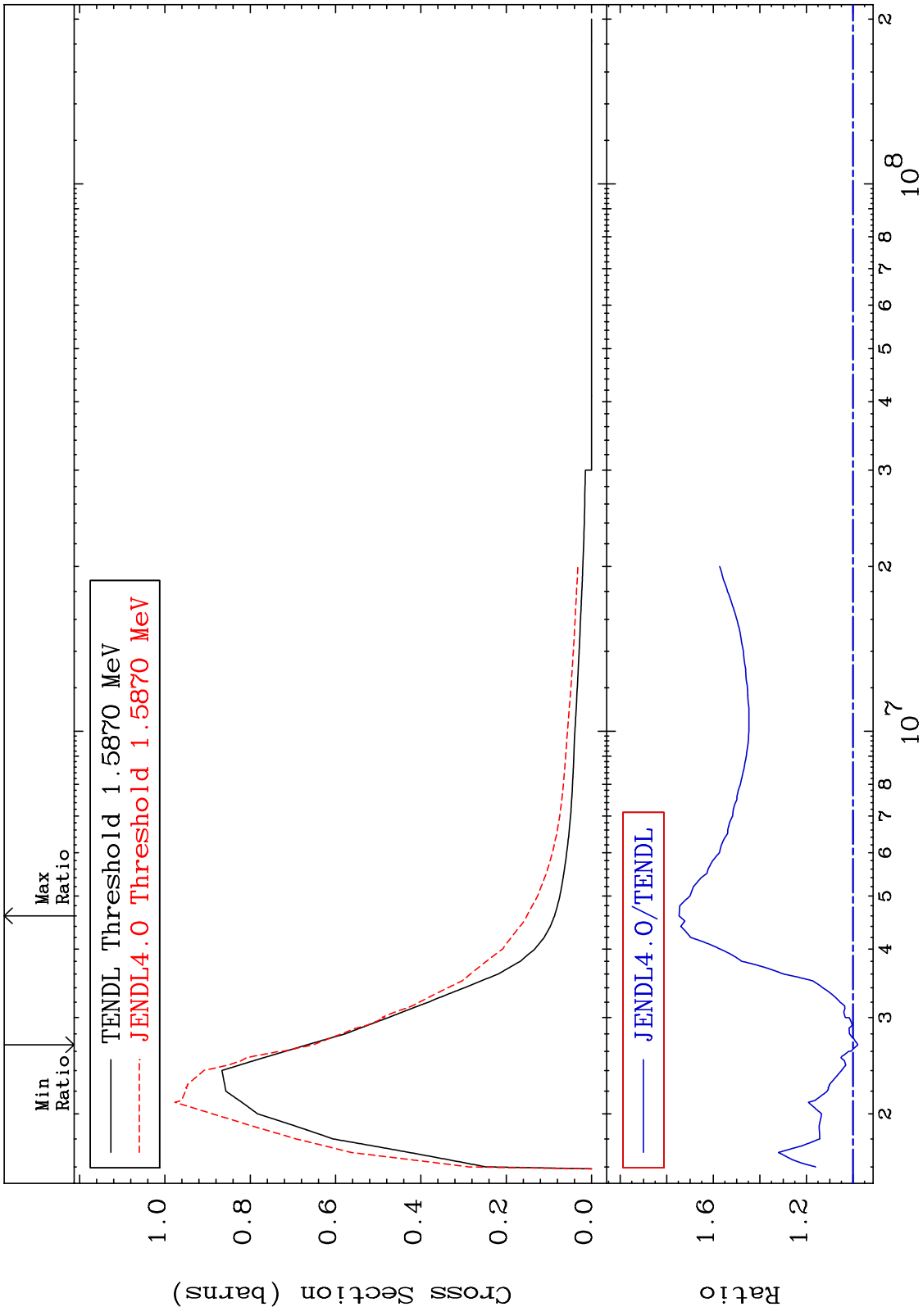


7 8 9 10 10<sup>7</sup> 2 3 4 5 6 7 8 9 10 10<sup>8</sup> 2

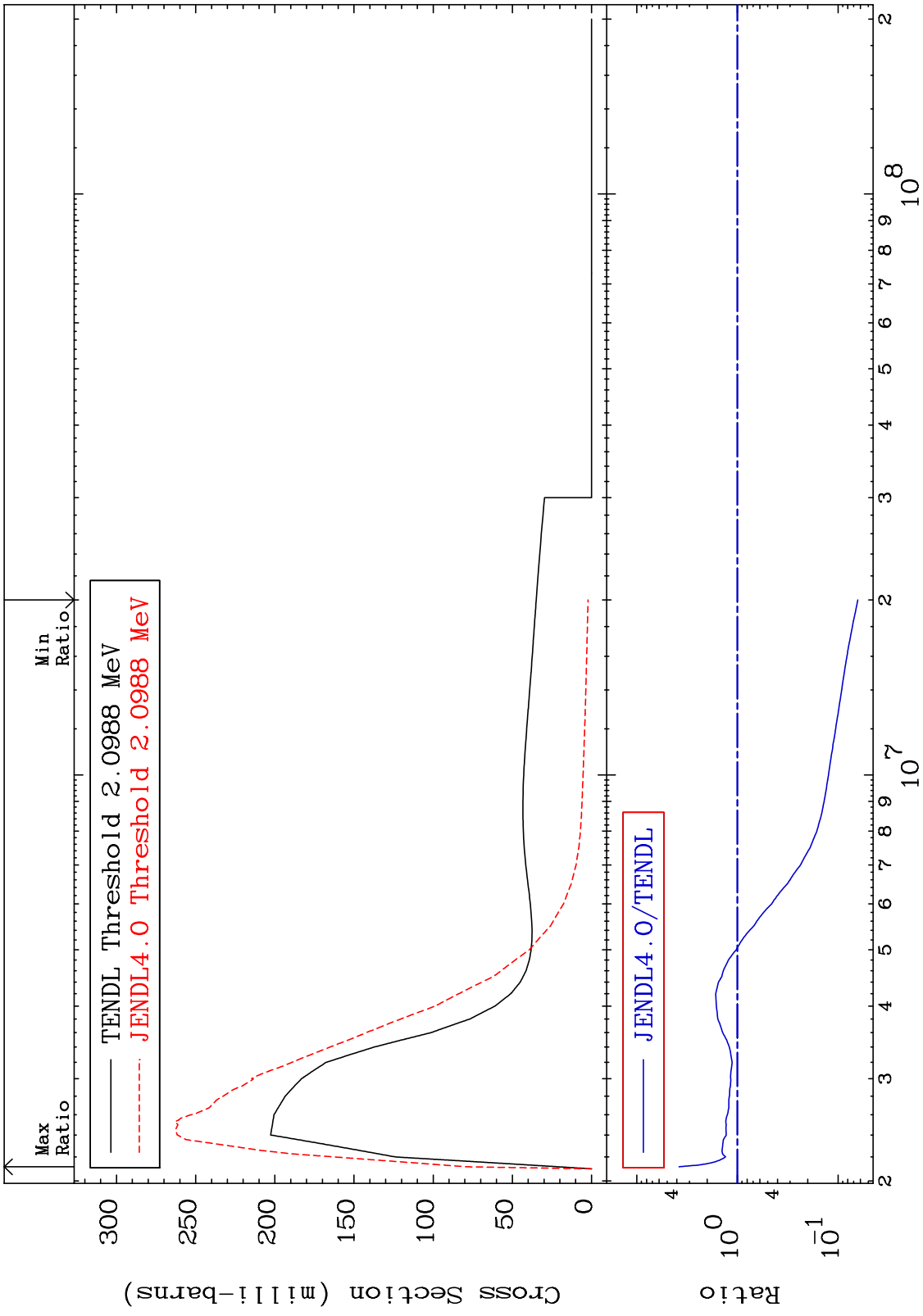
MAT 6025 (n,n') d 60-Nd-142  
 Cross Section -63.72 To 9999. %



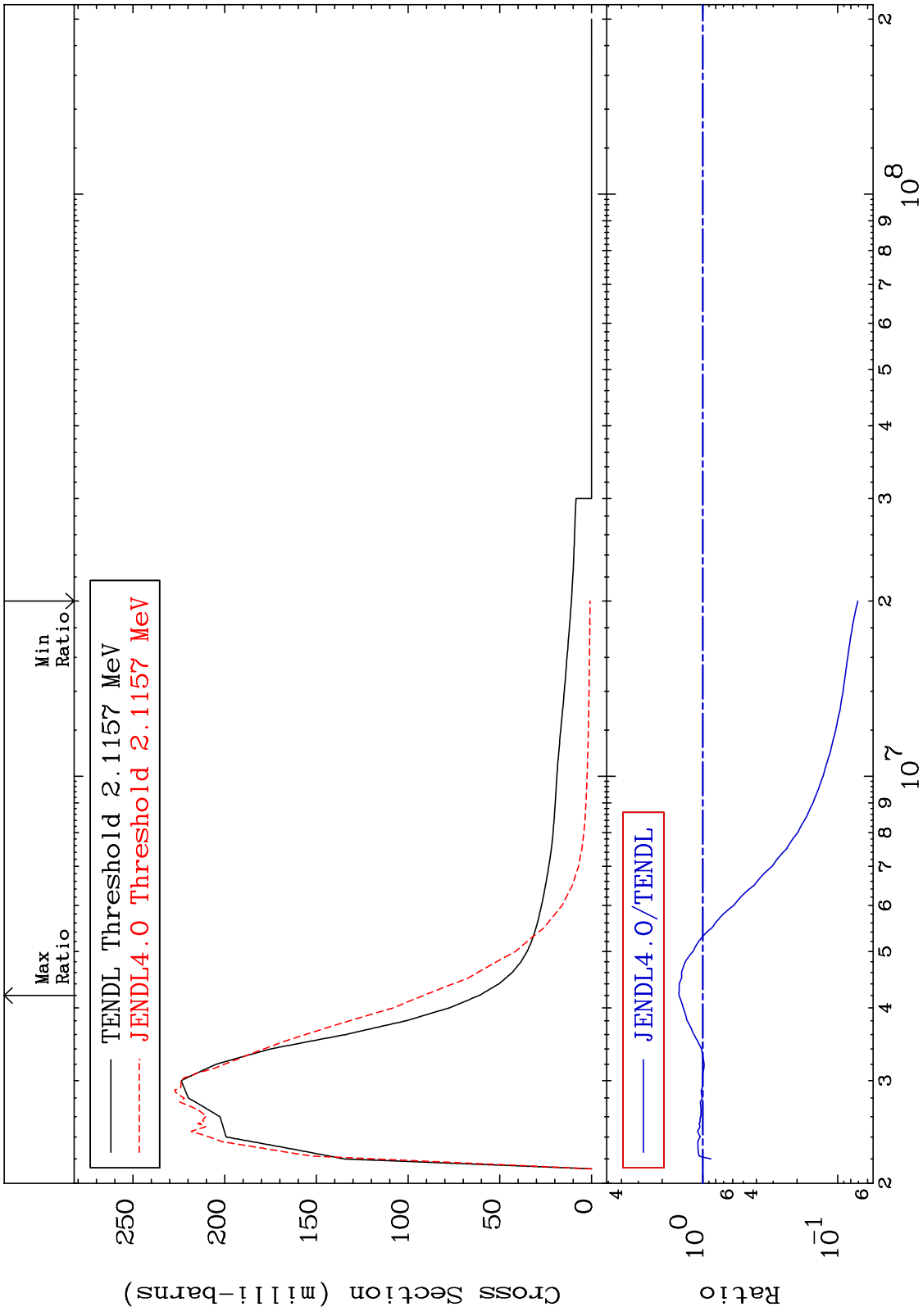
MAT 6025 MT= 51 (n,n') Level Cross Section 60-Nd-142  
 -2.074 To 74.72 %



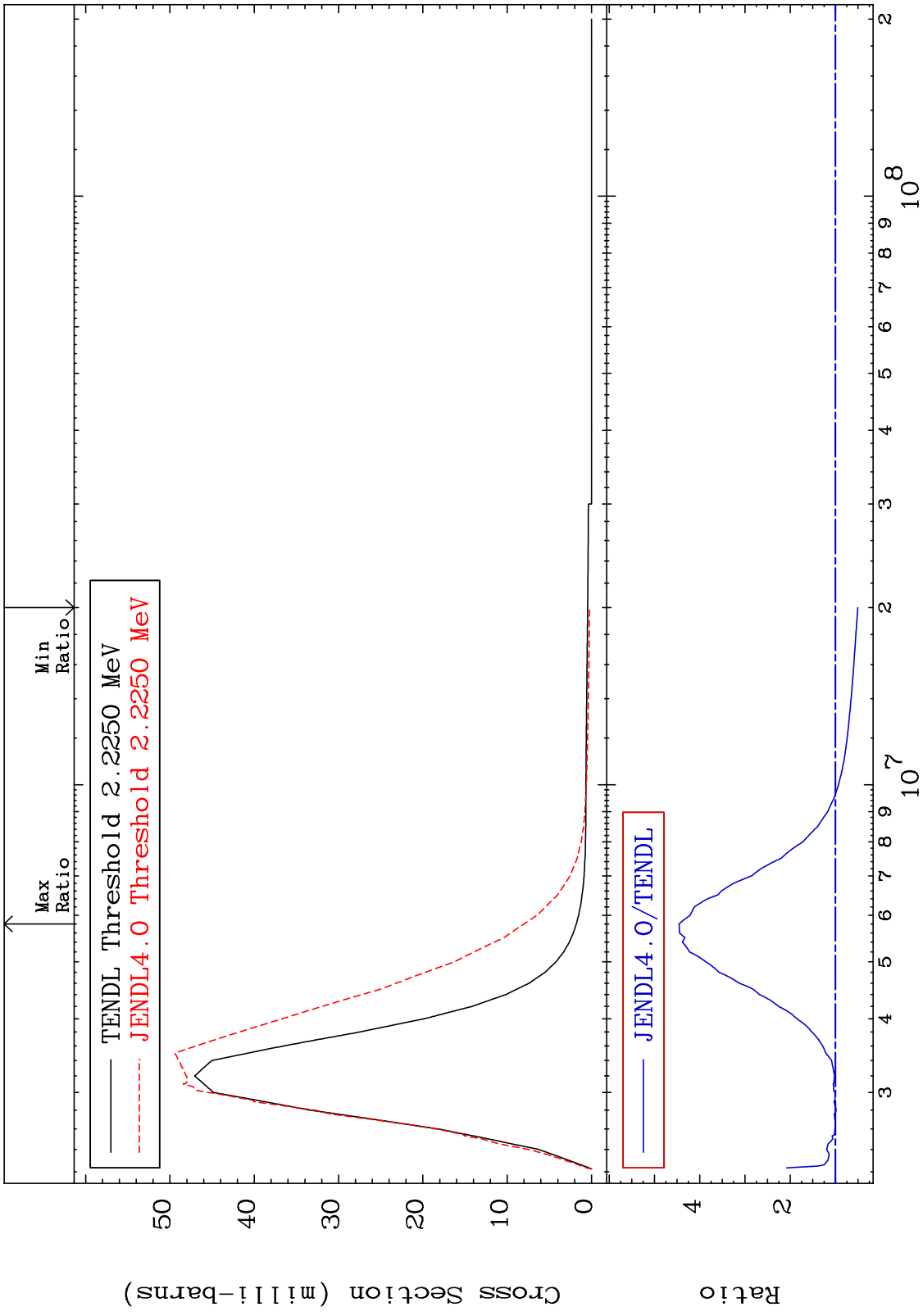
MAT 6025 MT= 52 (n,n') Level Cross Section 60-Nd-142  
 -93.64 To 280.4 %



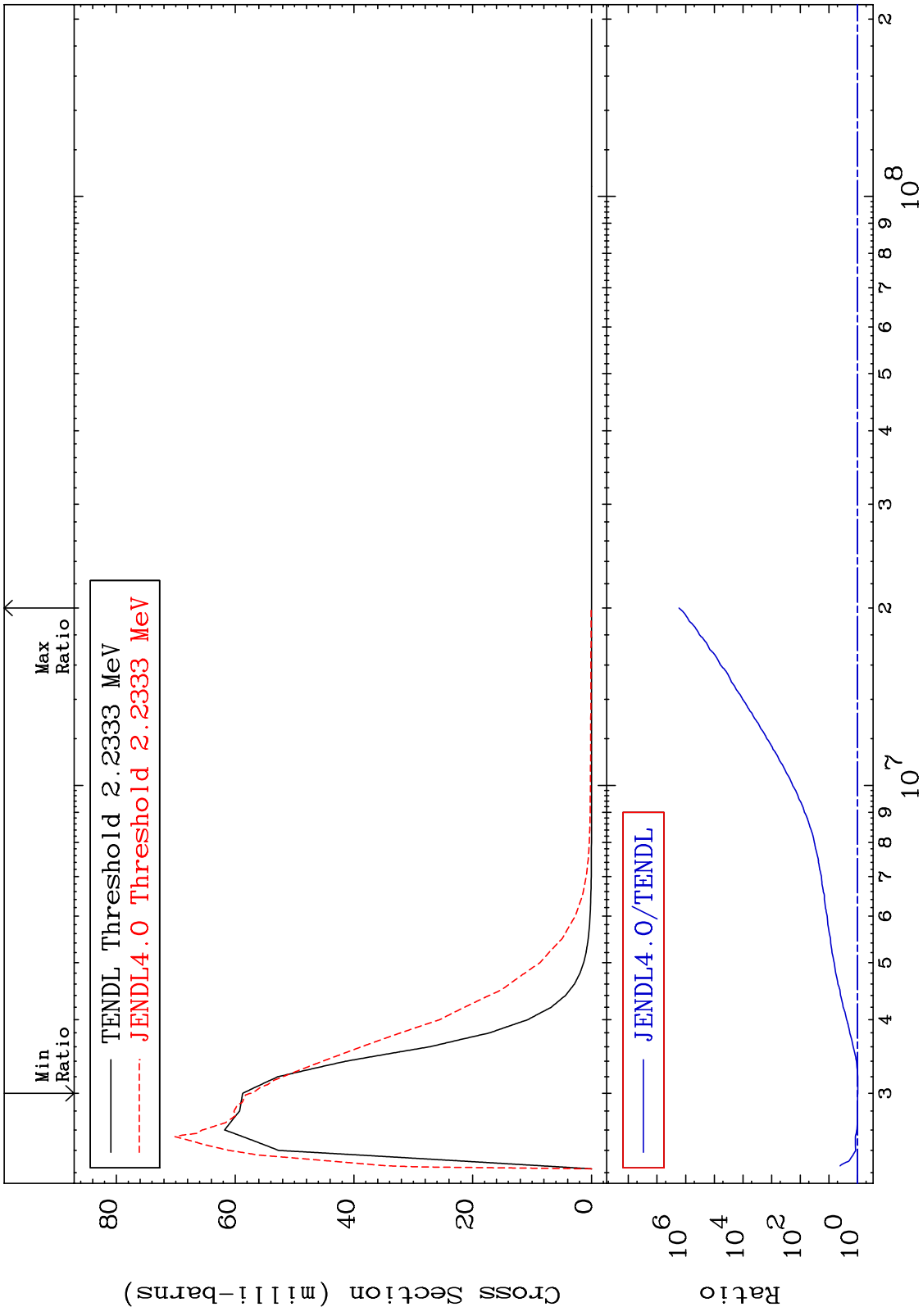
MAT 6025 MT= 53 (n,n') Level Cross Section 60-Nd-142  
 -92.92 To 49.79 %



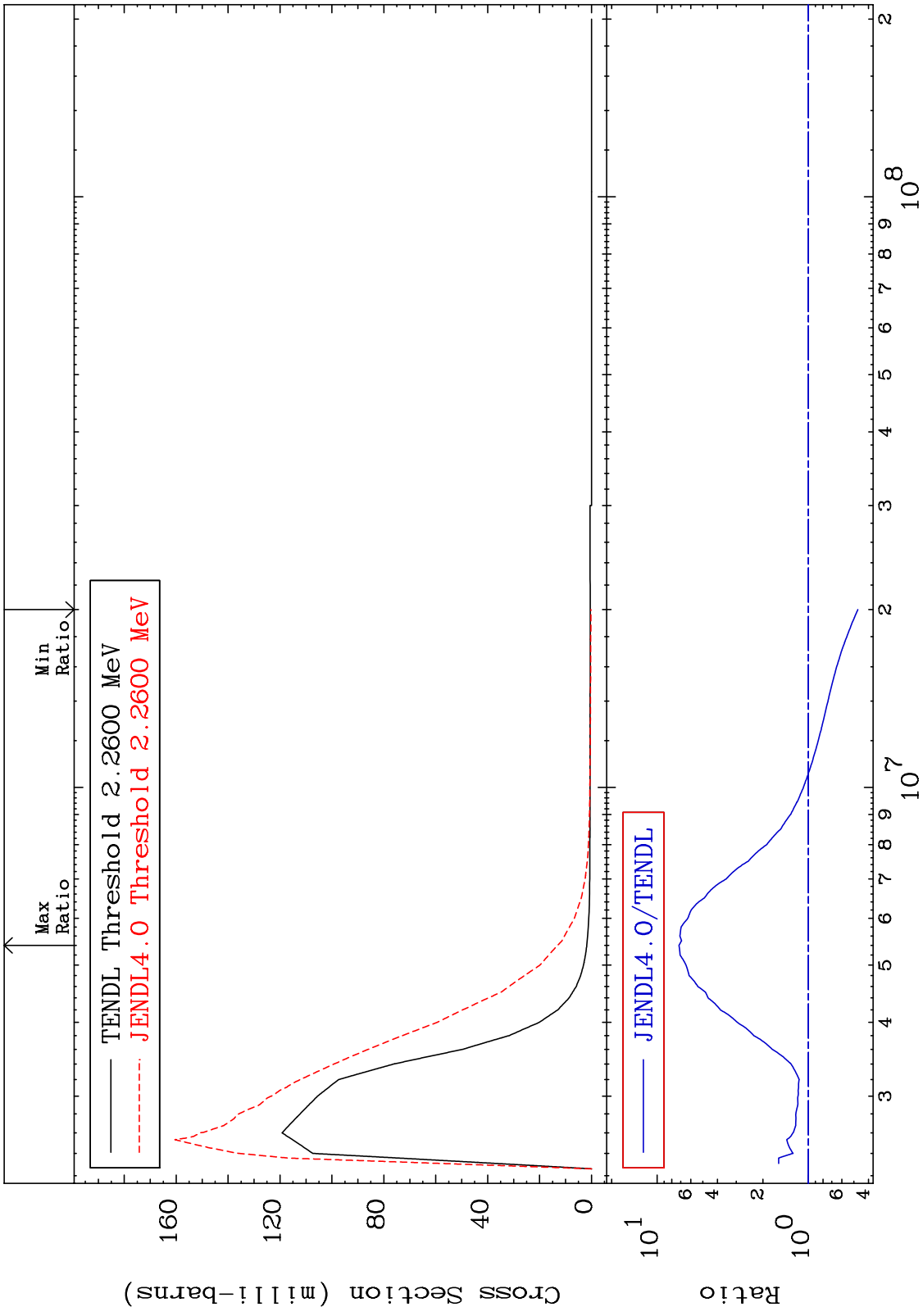
MAT 6025 MT= 54 (n,n') Level Cross Section 60-Nd-142  
 -49.44 To 345.7 %



MAT 6025 MT= 55 (n,n') Level Cross Section 60-Nd-142  
 -2.398 To 9999. %



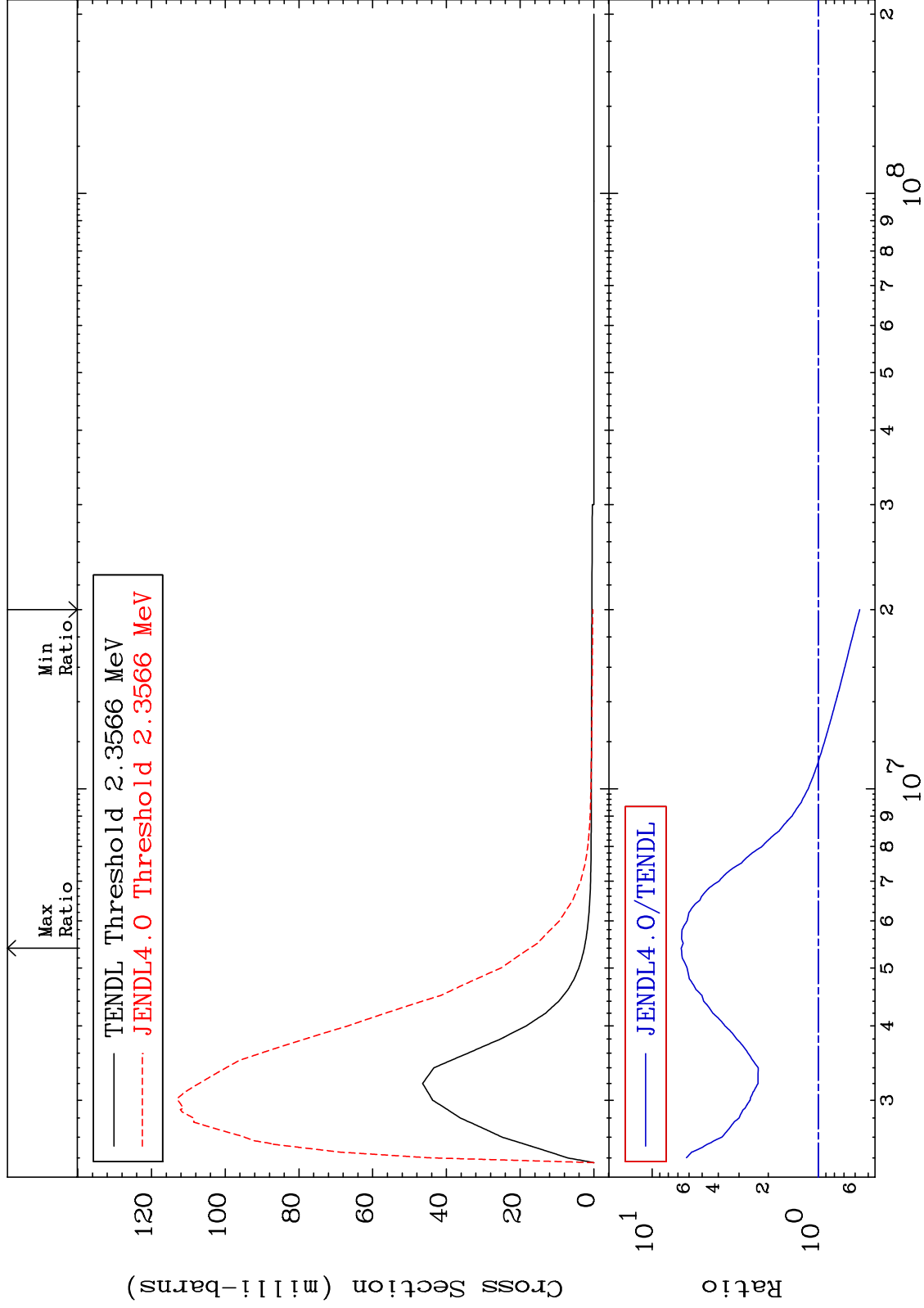
MAT 6025 MT= 56 (n,n') Level Cross Section 60-Nd-142  
 -52.91 To 617.1 %



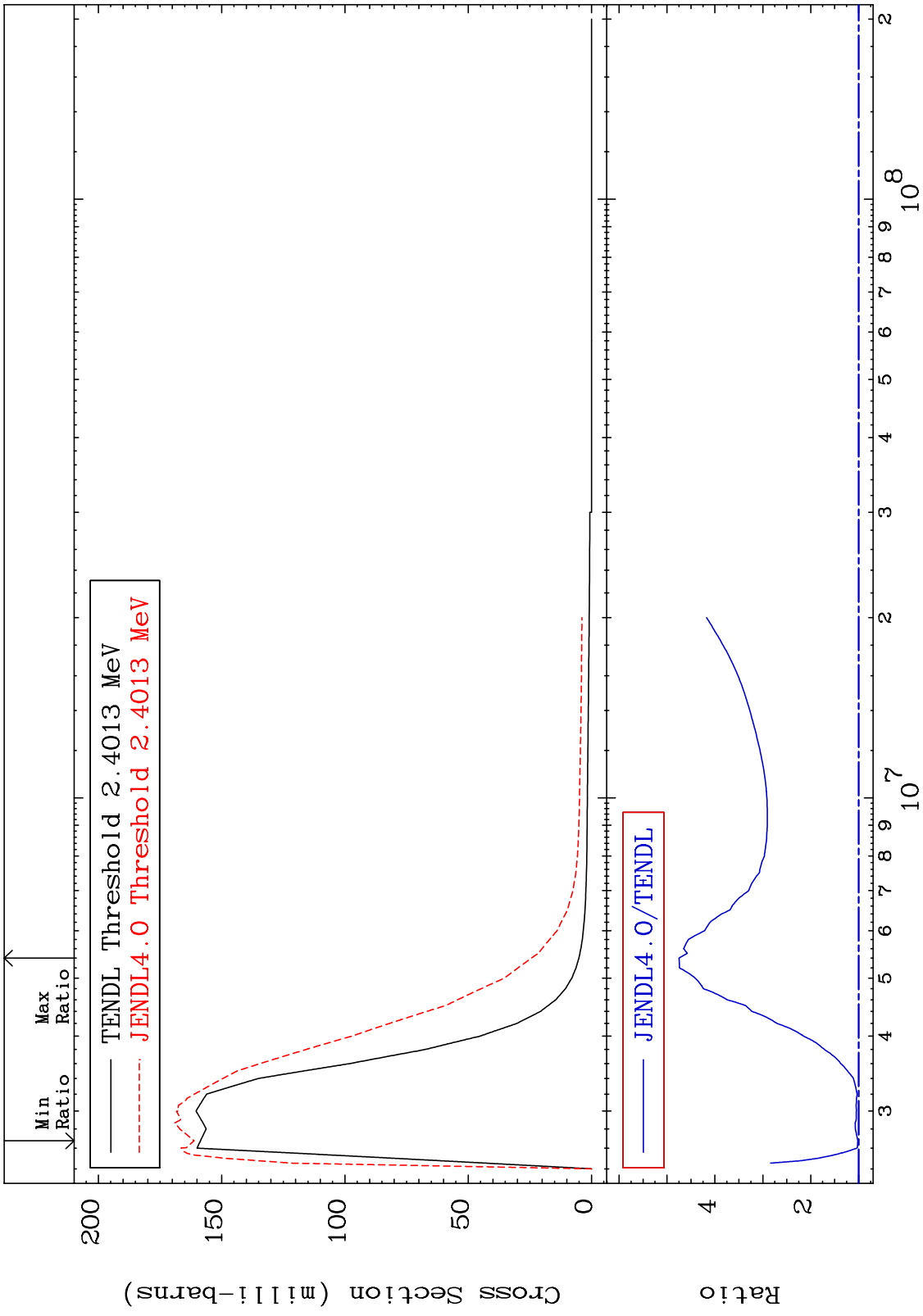
MAT 6025

MT= 57 (n,n') Level  
Cross Section

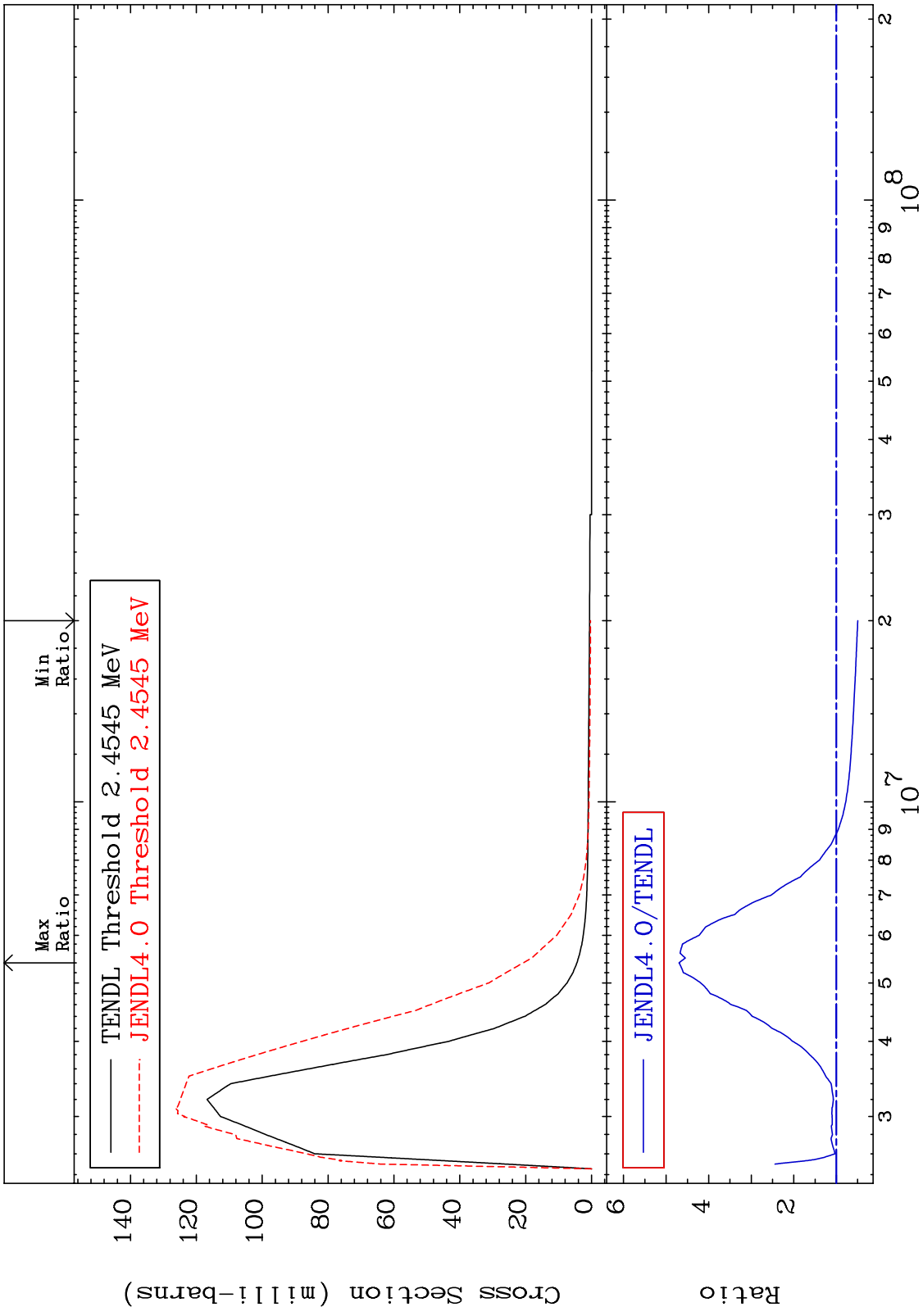
60-Nd-142  
-43.71 To 567.7 %



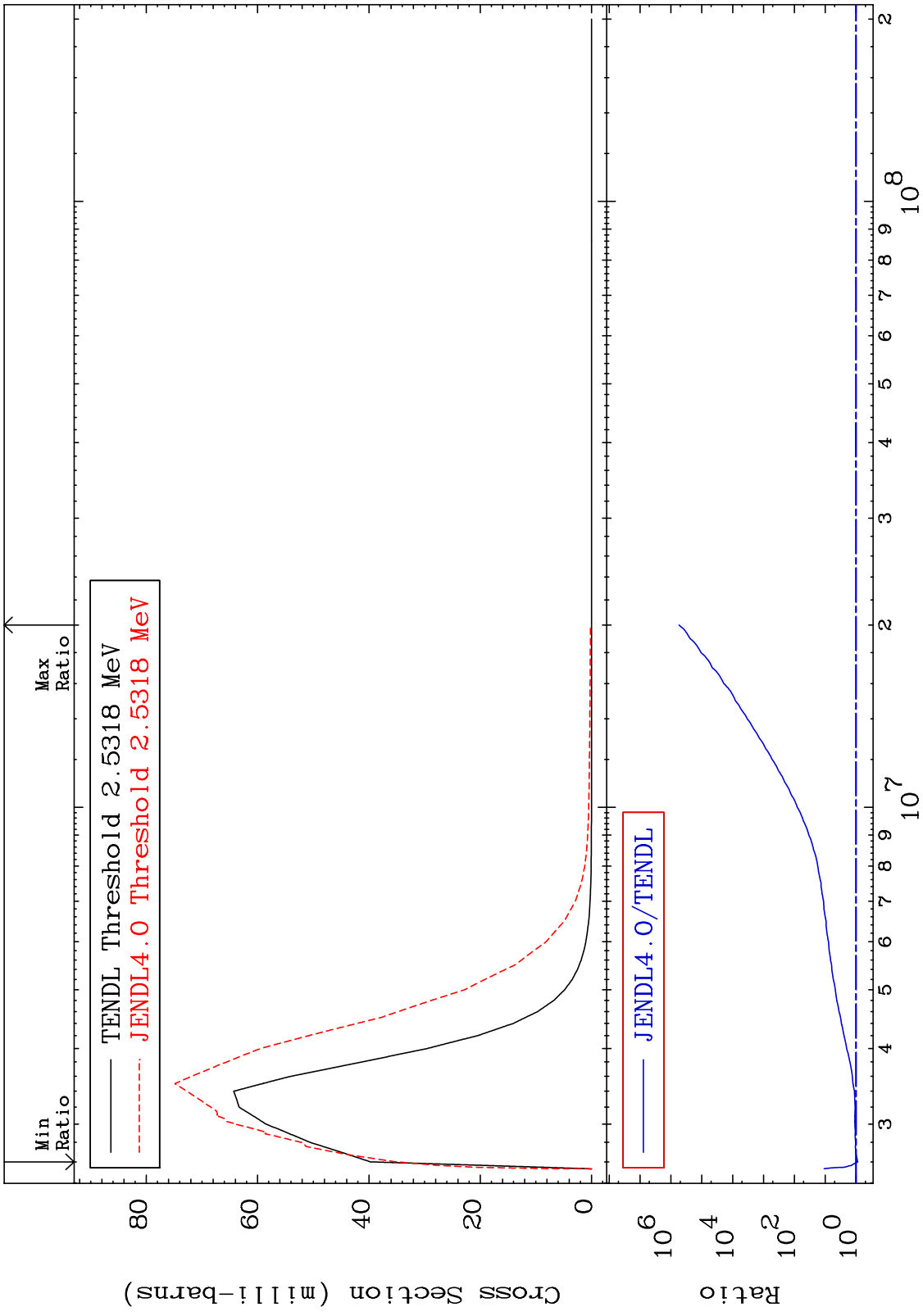
MAT 6025 MT= 58 (n,n') Level Cross Section 60-Nd-142  
 1.635 To 374.9 %



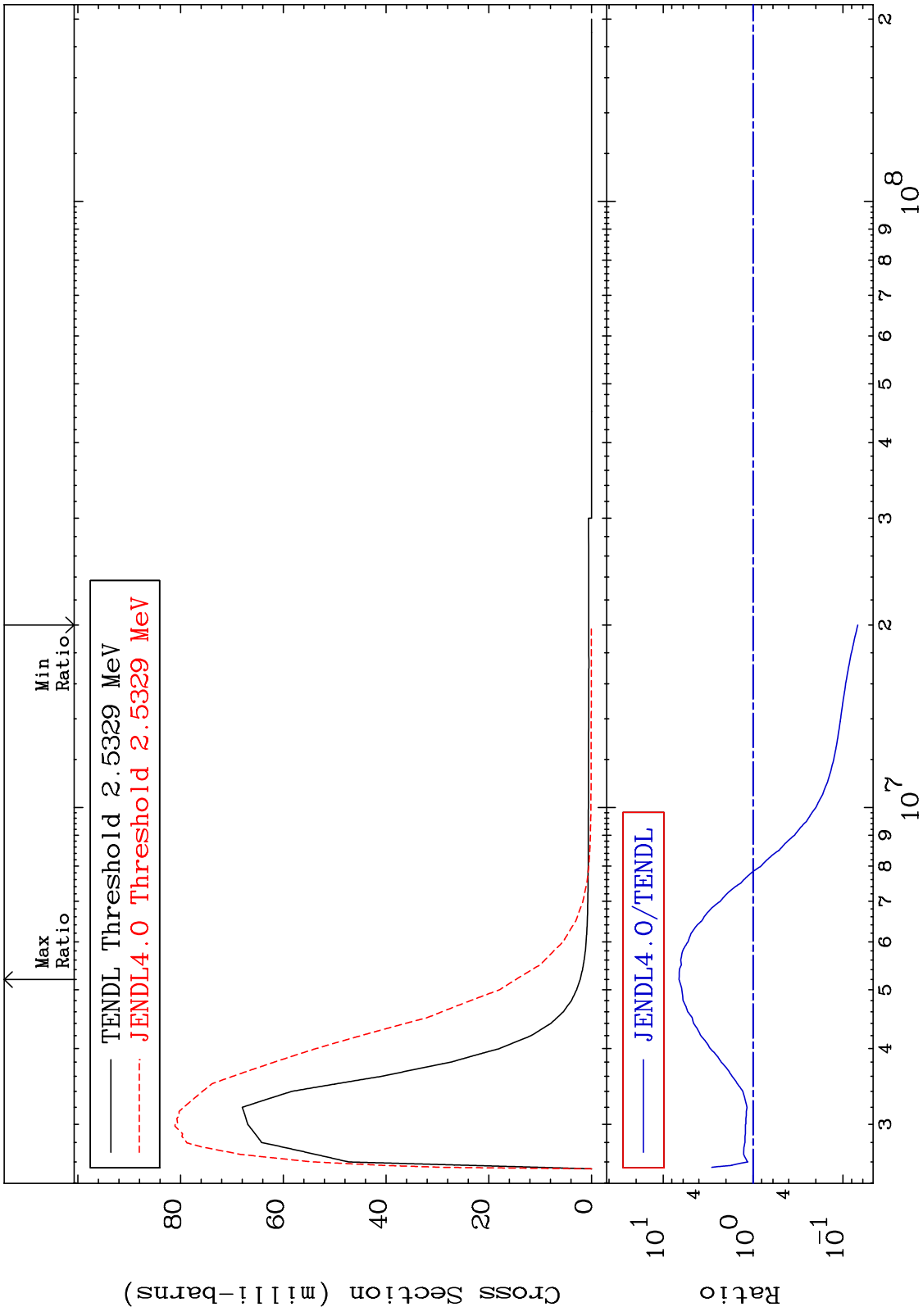
MAT 6025 MT= 59 (n,n') Level Cross Section 60-Nd-142  
 -50.45 To 369.6 %



MAT 6025 MT= 60 (n,n') Level Cross Section 60-Nd-142 -12.02 To 9999. %

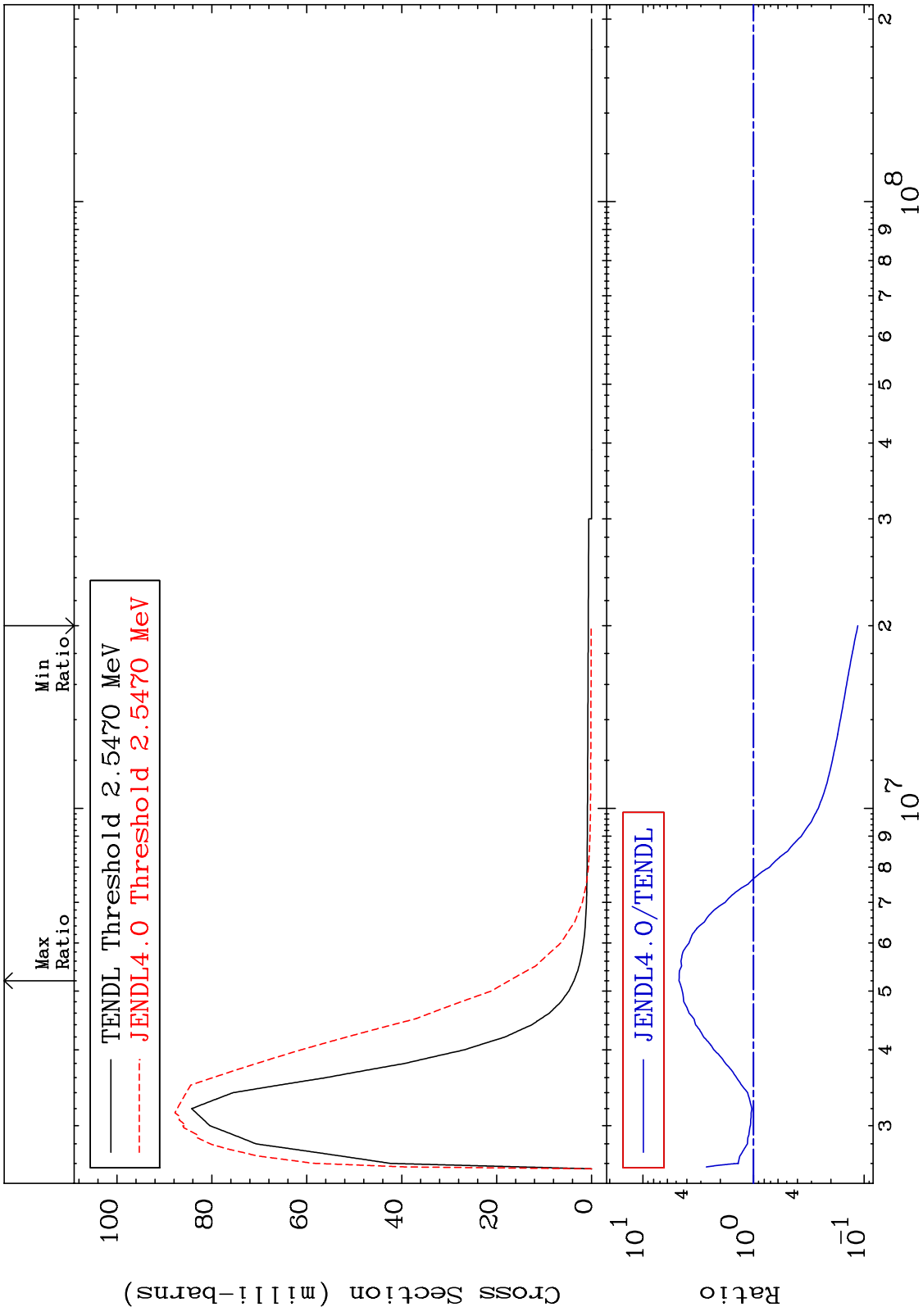


MAT 6025 MT= 61 (n,n') Level Cross Section 60-Nd-142  
 -93.19 To 565.4 %

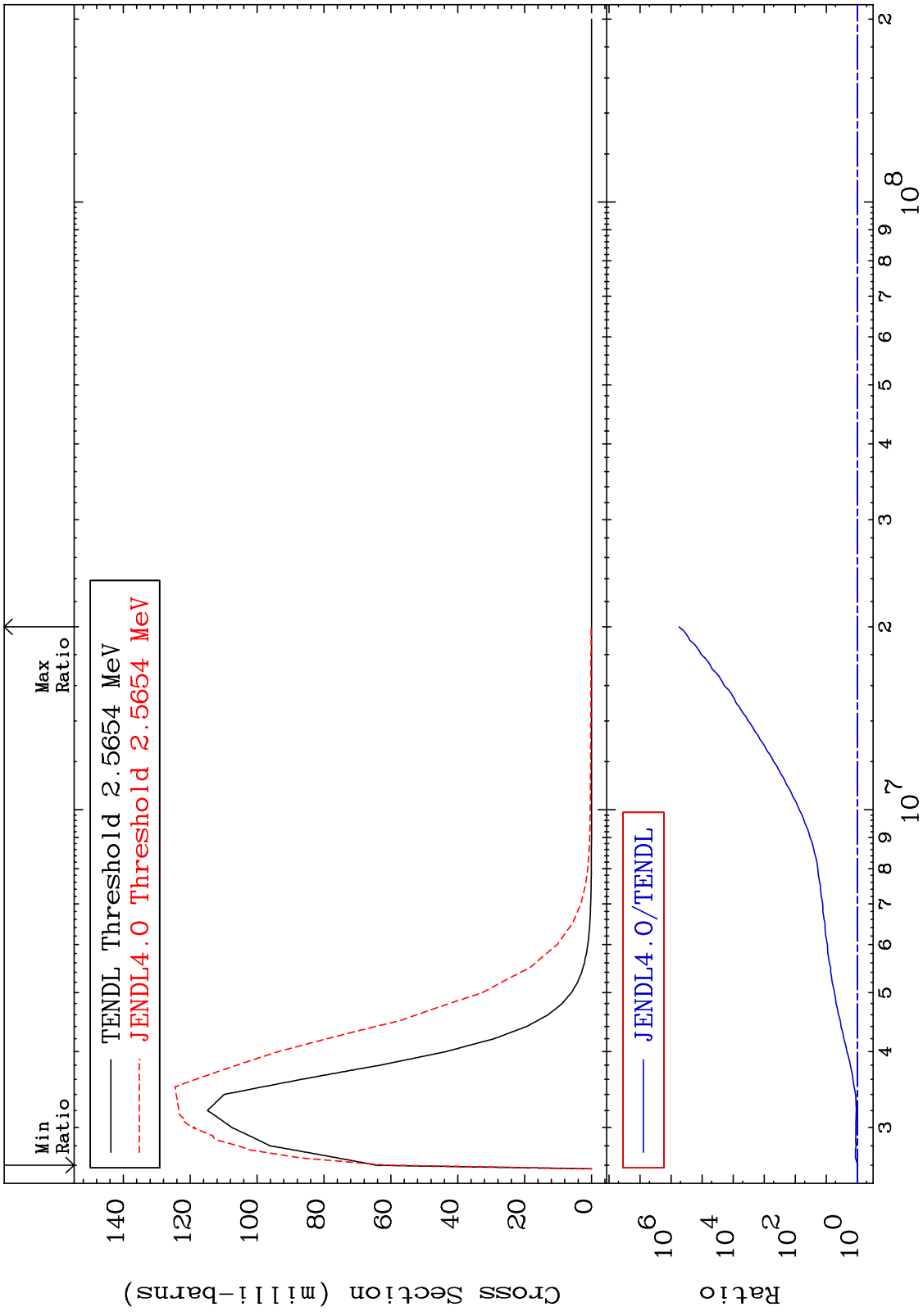


19 Incident Energy (eV) 60-Nd-142

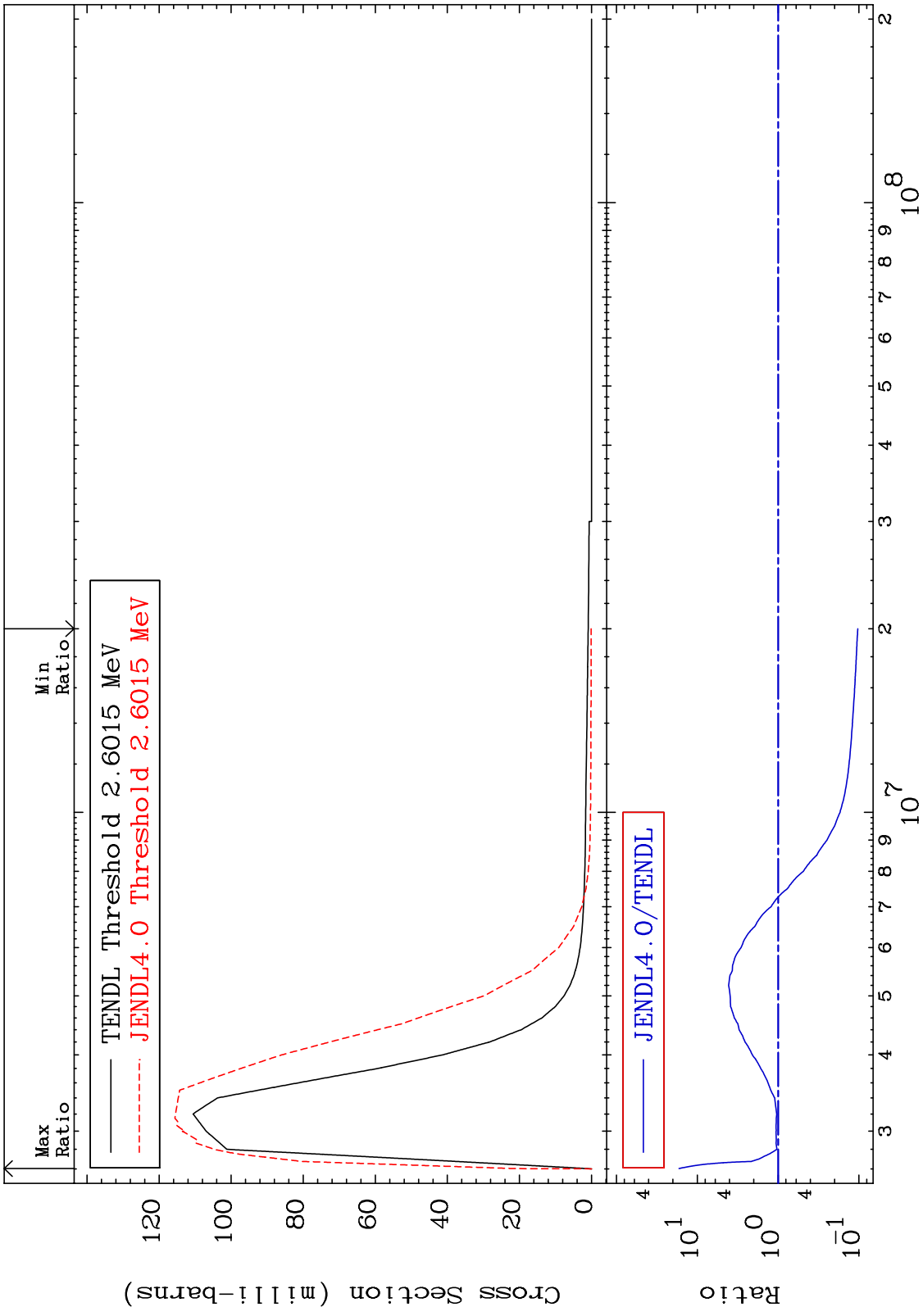
MAT 6025 MT= 62 (n,n') Level Cross Section 60-Nd-142 -88.59 To 371.5 %



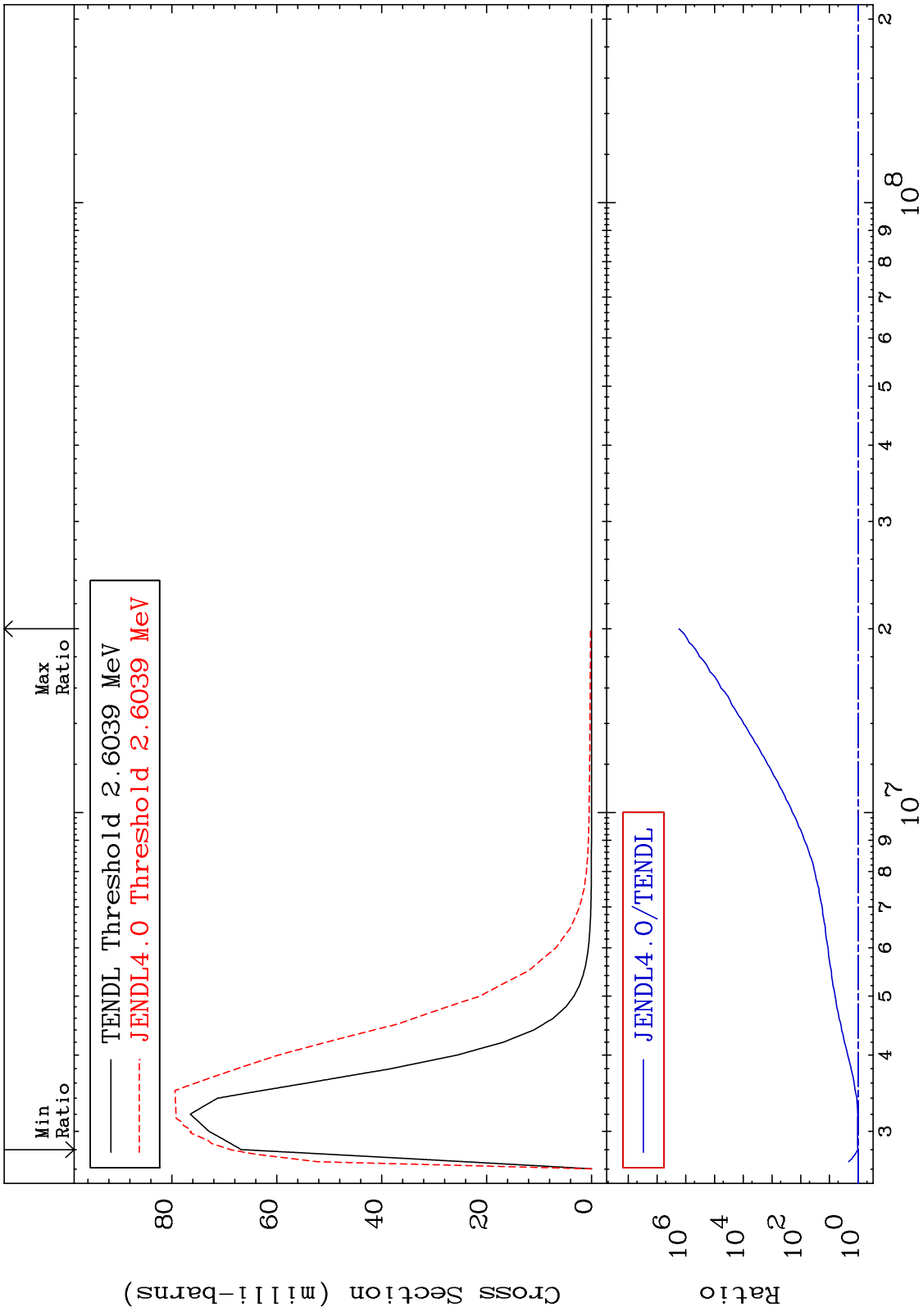
MAT 6025 MT= 63 (n,n') Level Cross Section 60-Nd-142  
 -4.098 To 9999. %



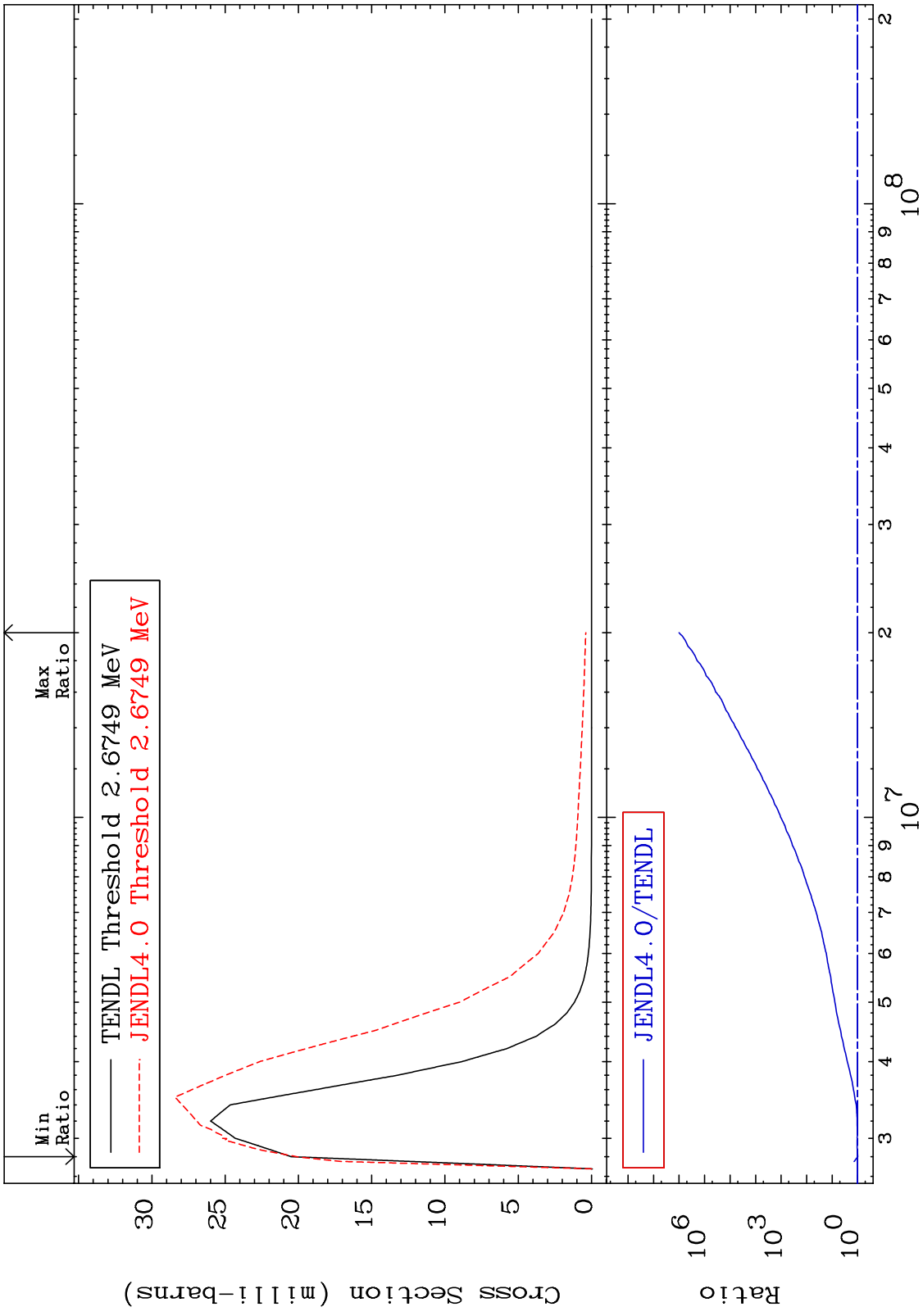
MAT 6025 MT= 64 (n,n') Level Cross Section 60-Nd-142 -89.68 To 1582. %



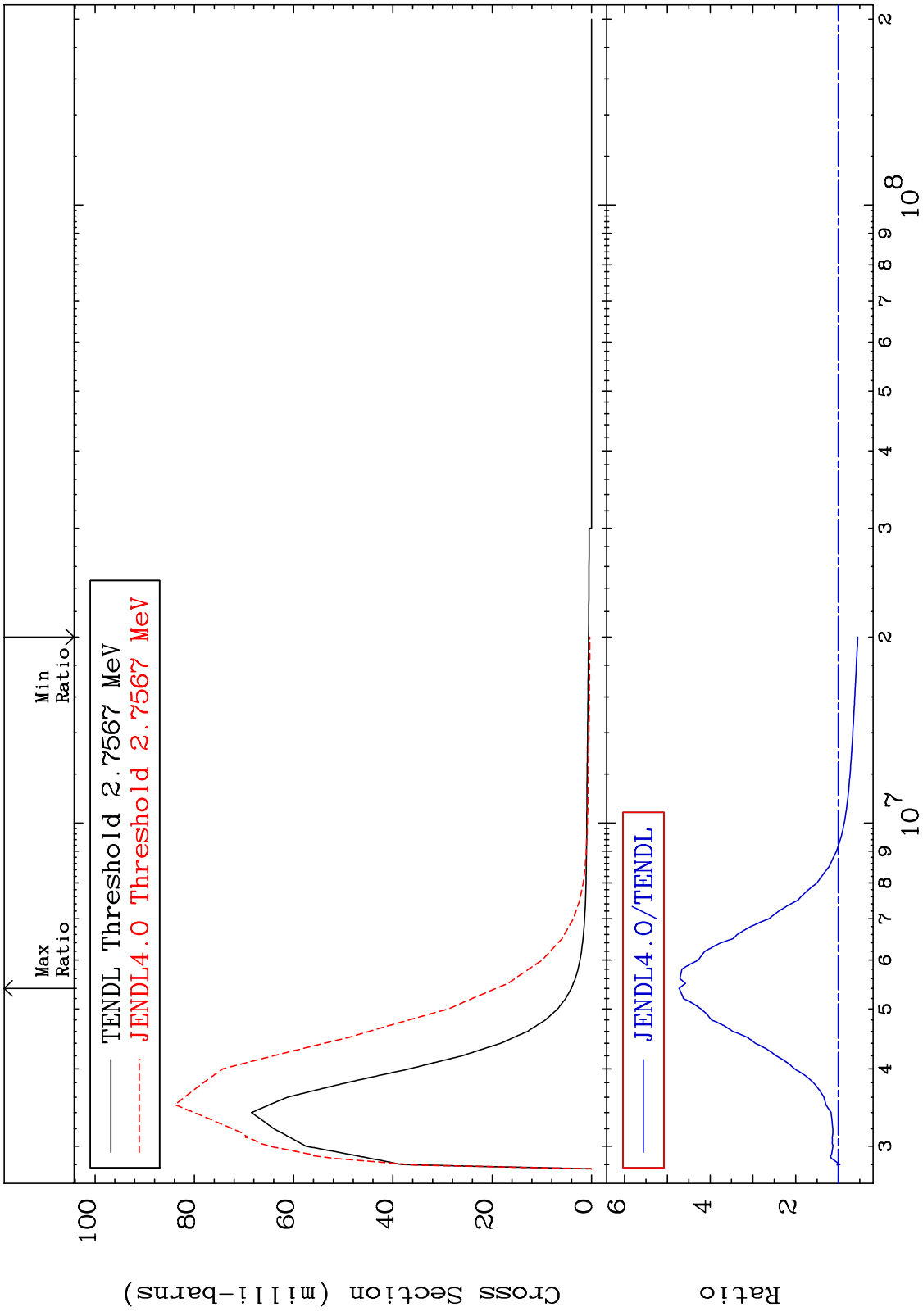
MAT 6025 MT= 65 (n,n') Level Cross Section 60-Nd-142 To 9999. %  
 3.038



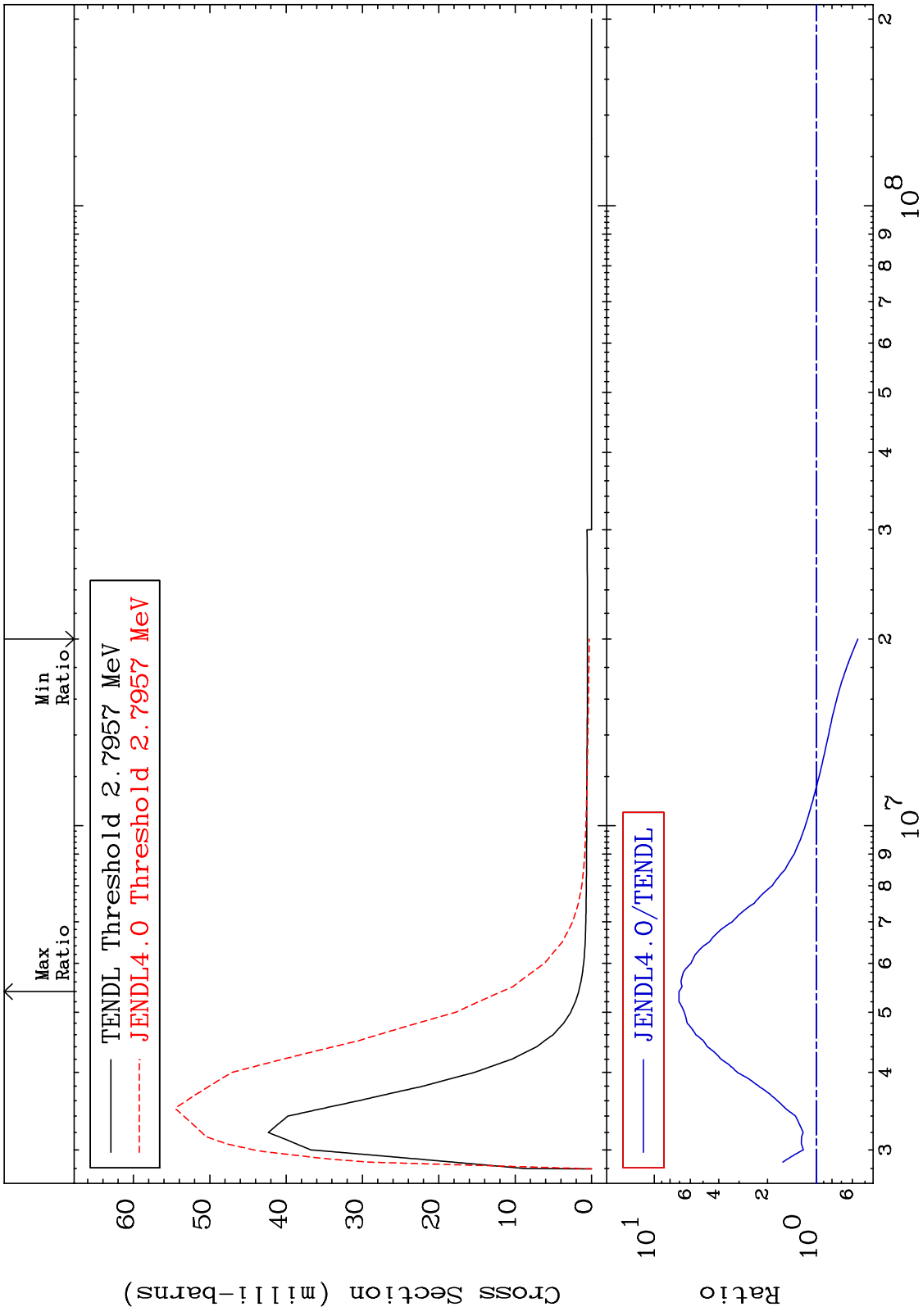
MAT 6025      MT= 66 (n,n') Level      60-Nd-142  
 Cross Section      -1.894 To 9999. %



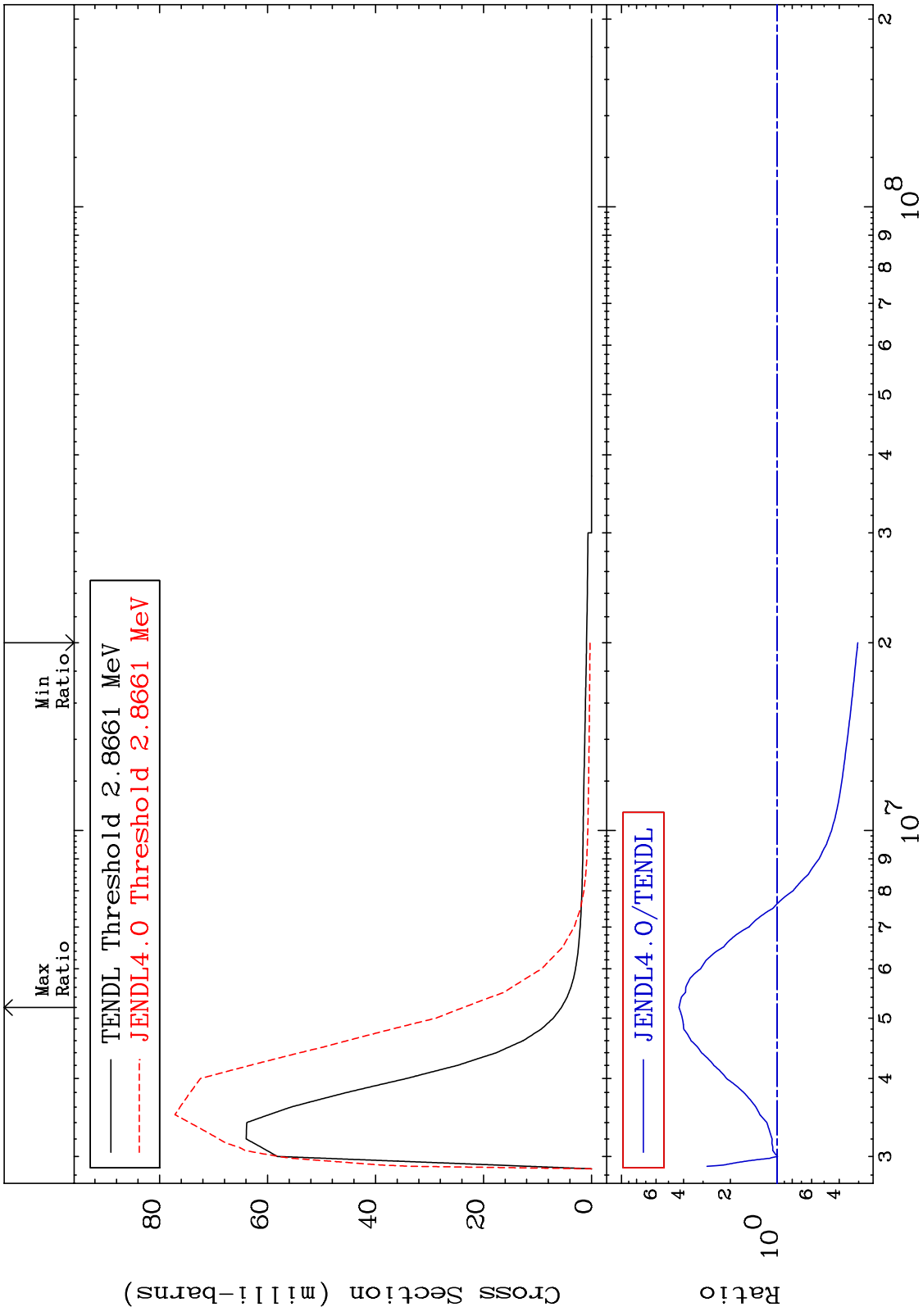
MAT 6025      MT= 67 (n,n') Level Cross Section      60-Nd-142  
 -45.46 To 372.7 %



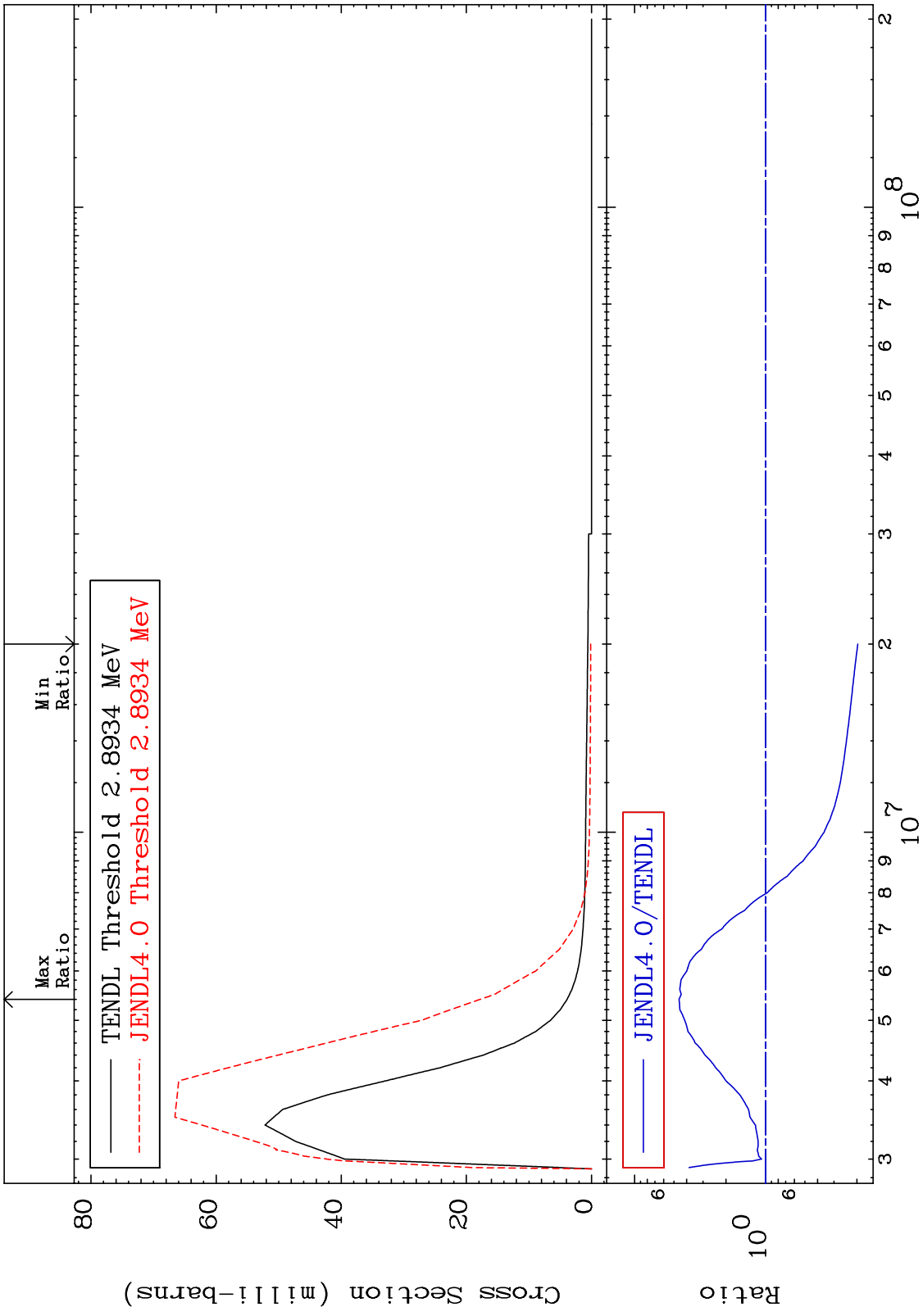
MAT 6025      MT= 68 (n,n') Level Cross Section      60-Nd-142  
 -44.56 To 603.5 %



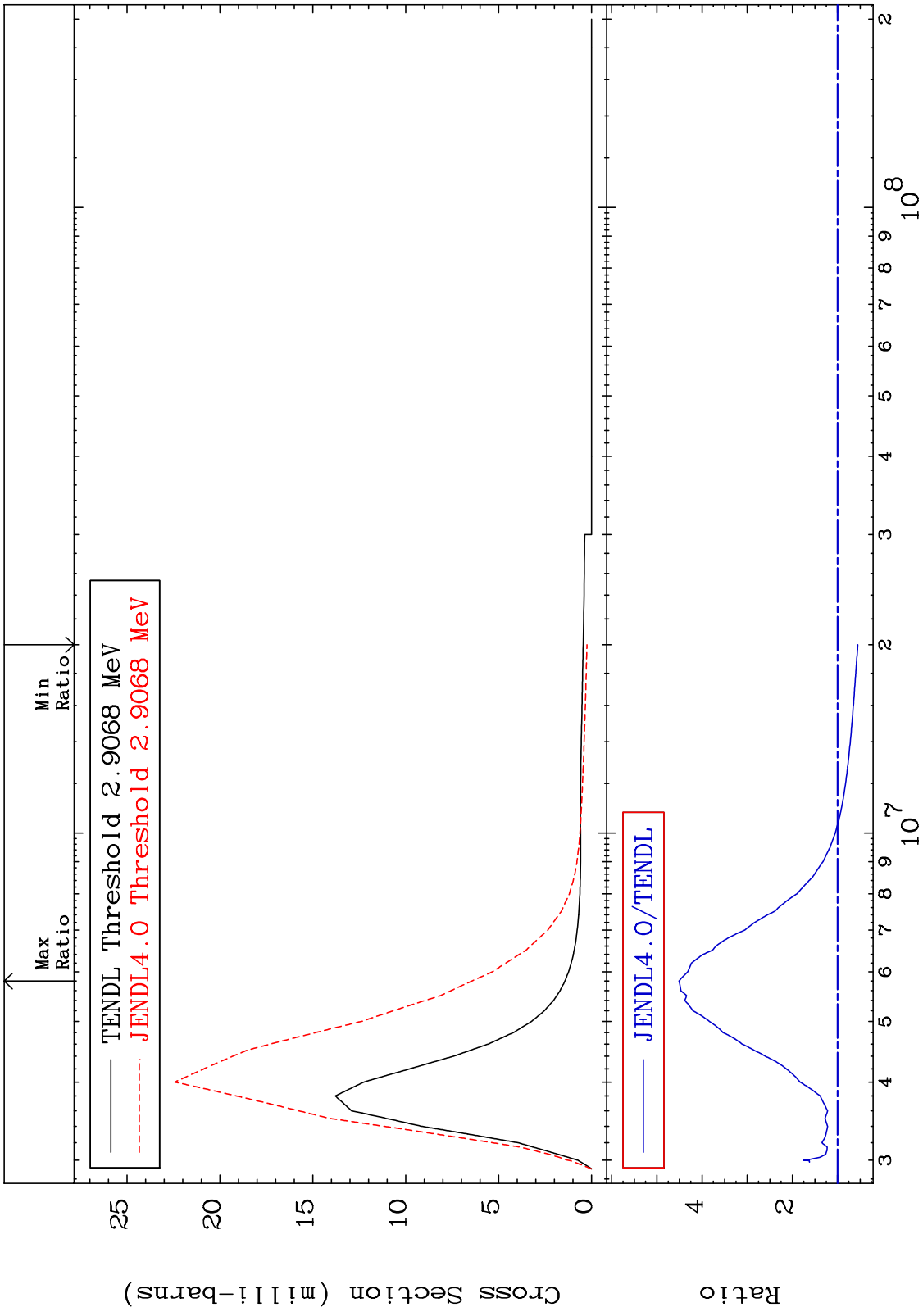
MAT 6025 MT= 69 (n,n') Level Cross Section 60-Nd-142  
 -69.68 To 327.1 %



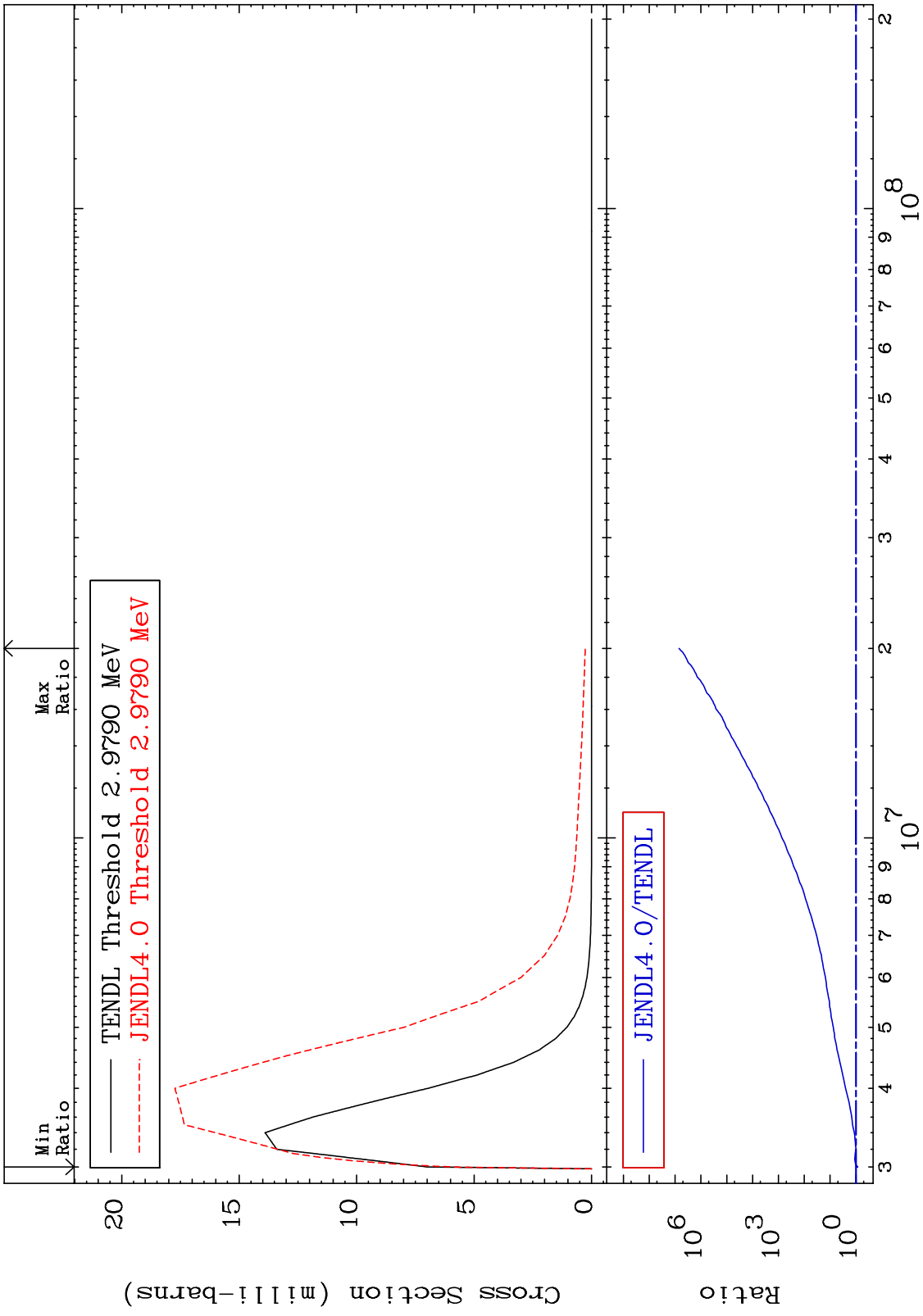
MAT 6025 MT= 70 (n,n') Level Cross Section 60-Nd-142  
 -80.31 To 357.2 %



MAT 6025 MT= 71 (n,n') Level Cross Section 60-Nd-142  
 -44.87 To 350.9 %

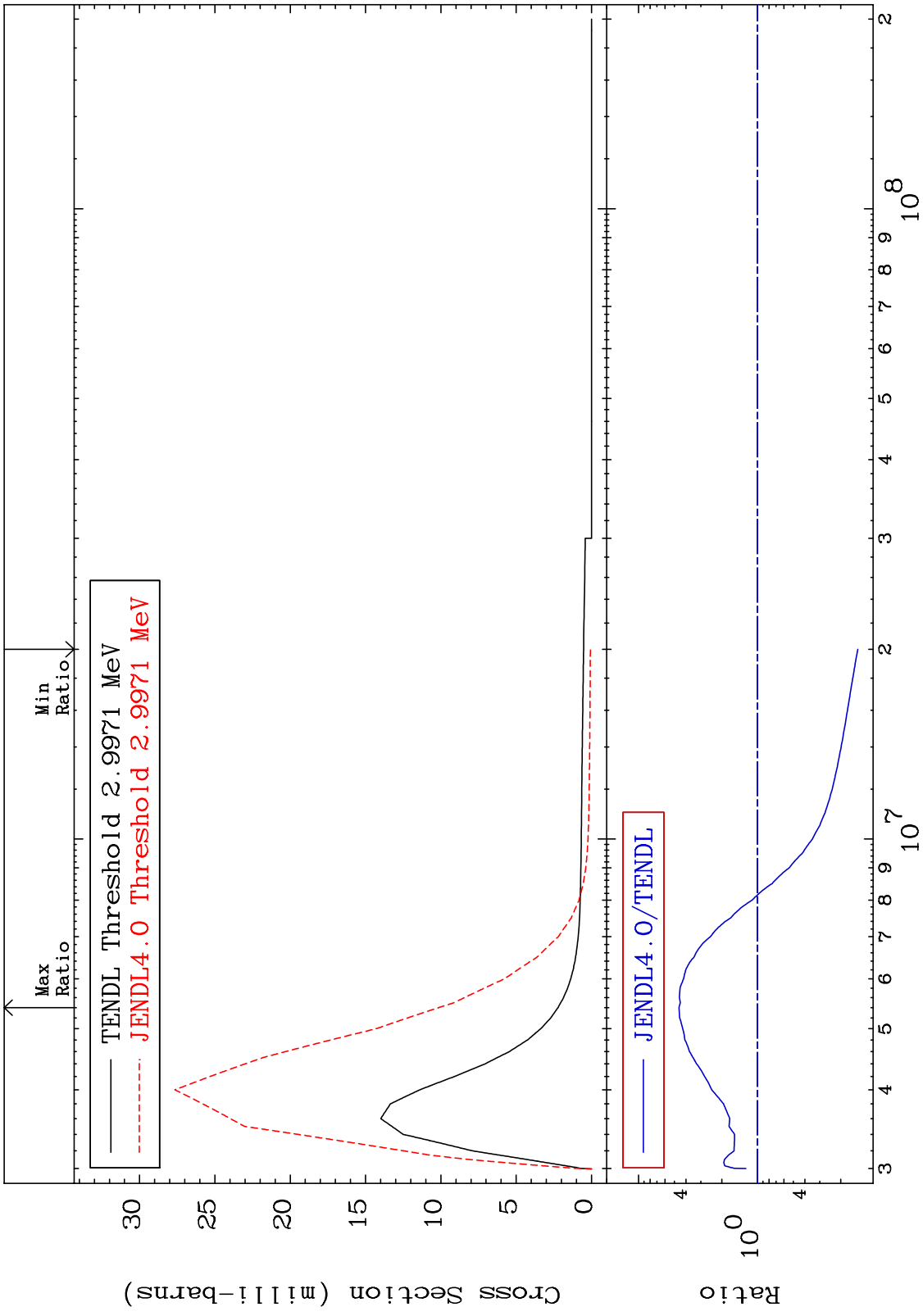


MAT 6025 MT= 72 (n,n') Level Cross Section 60-Nd-142  
 -15.22 To 9999. %

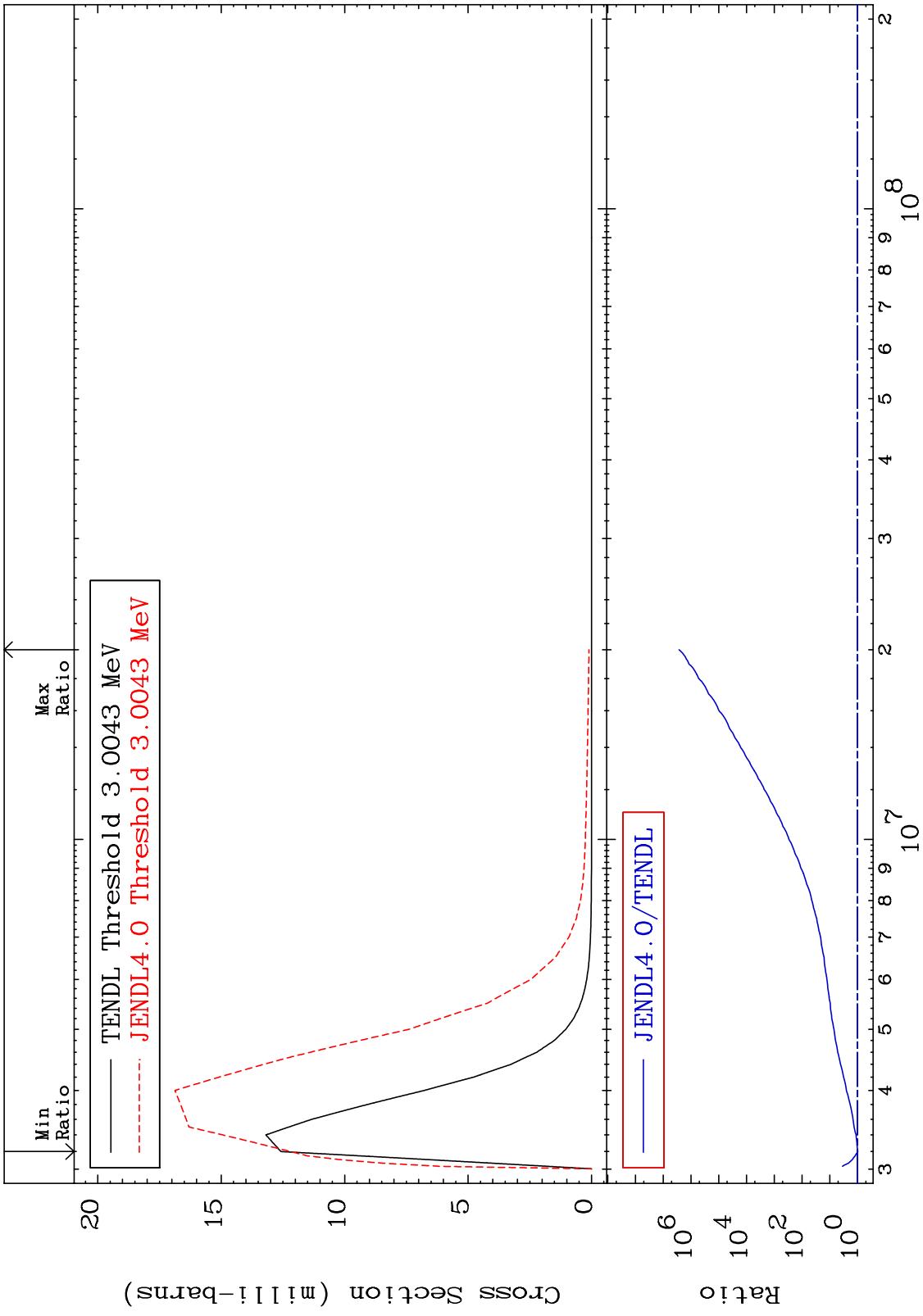


30 60-Nd-142

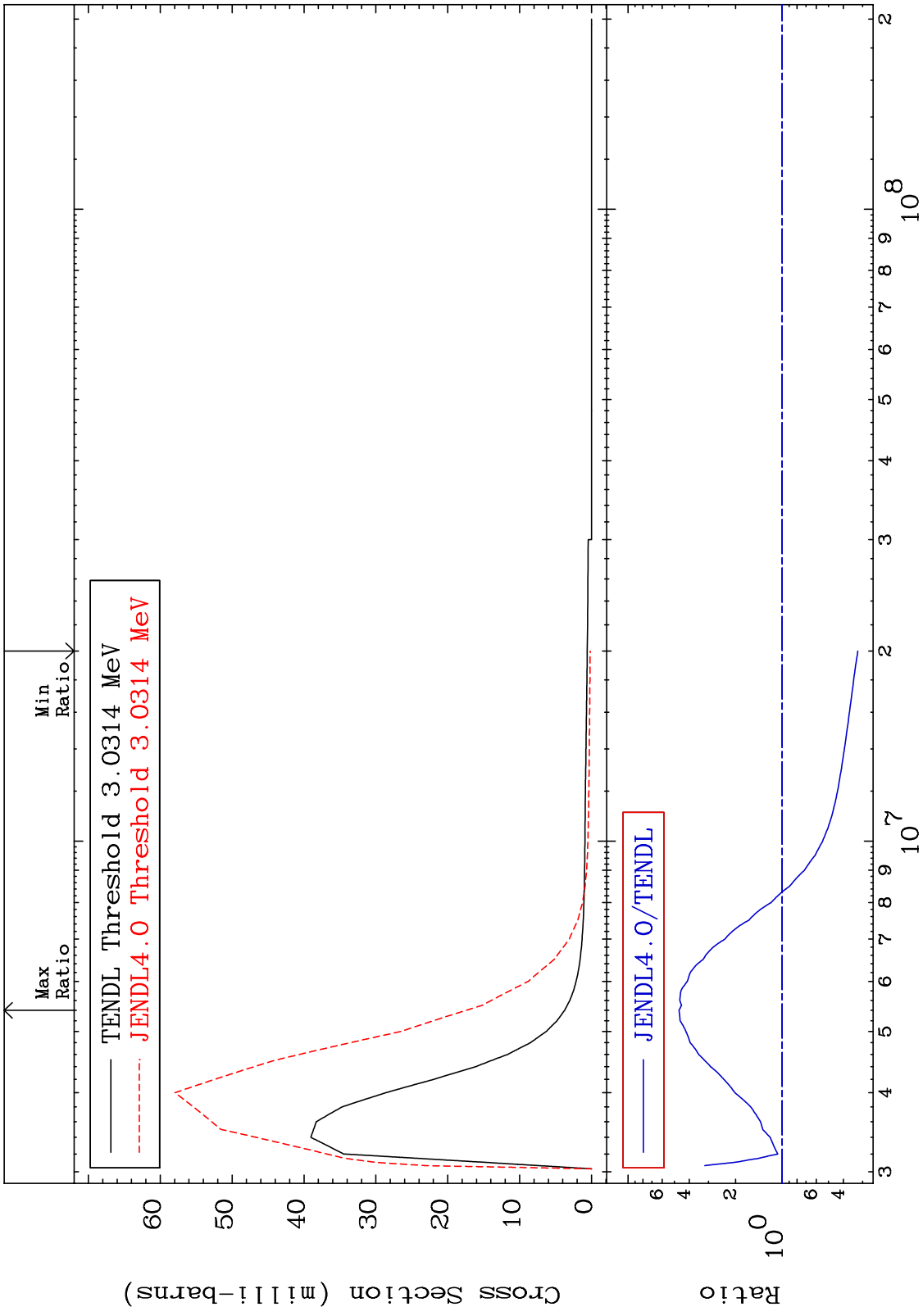
MAT 6025 MT= 73 (n,n') Level Cross Section 60-Nd-142  
 -85.64 To 356.7 %



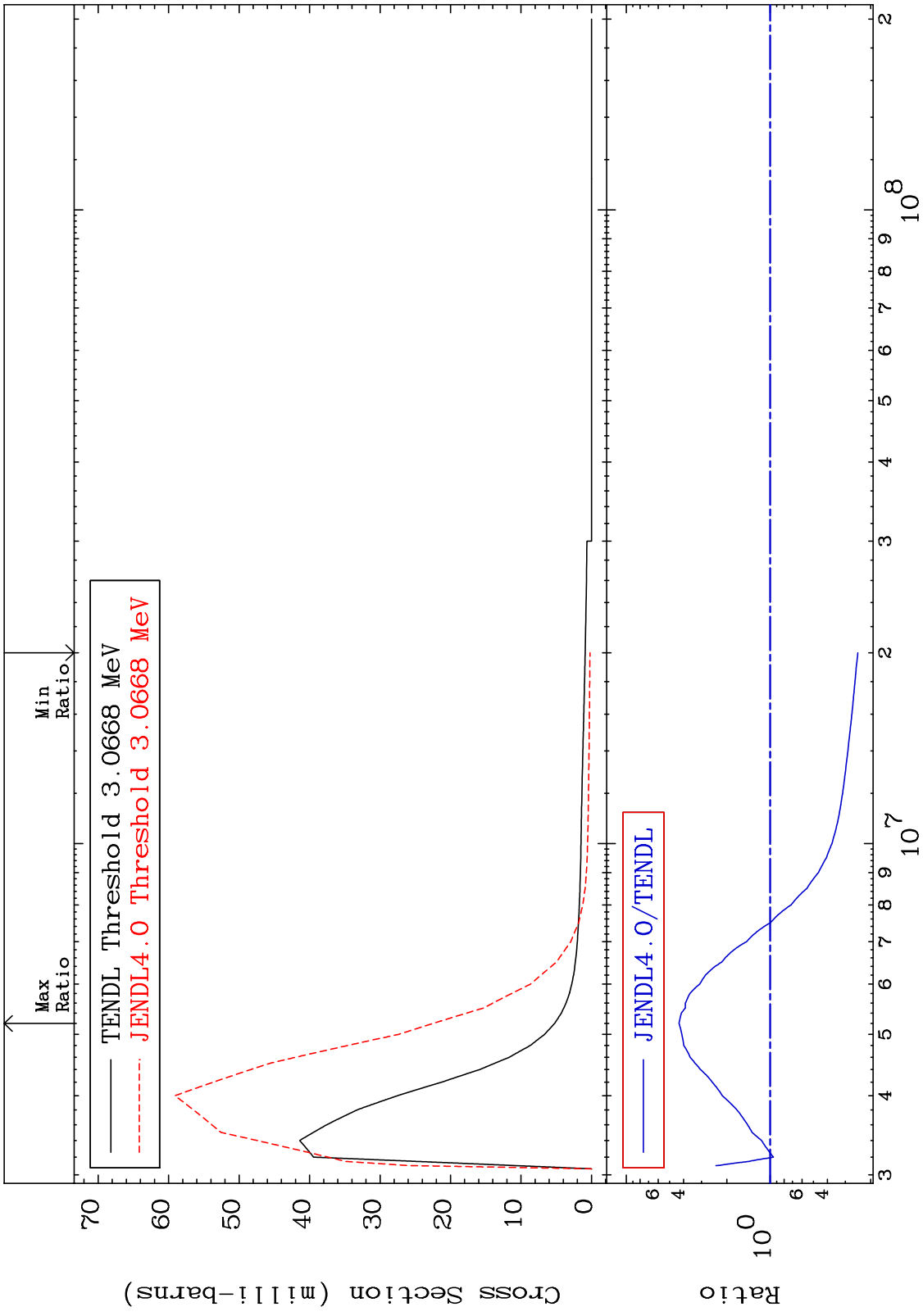
MAT 6025 MT= 74 (n,n') Level Cross Section 60-Nd-142  
 -3.089 To 9999. %



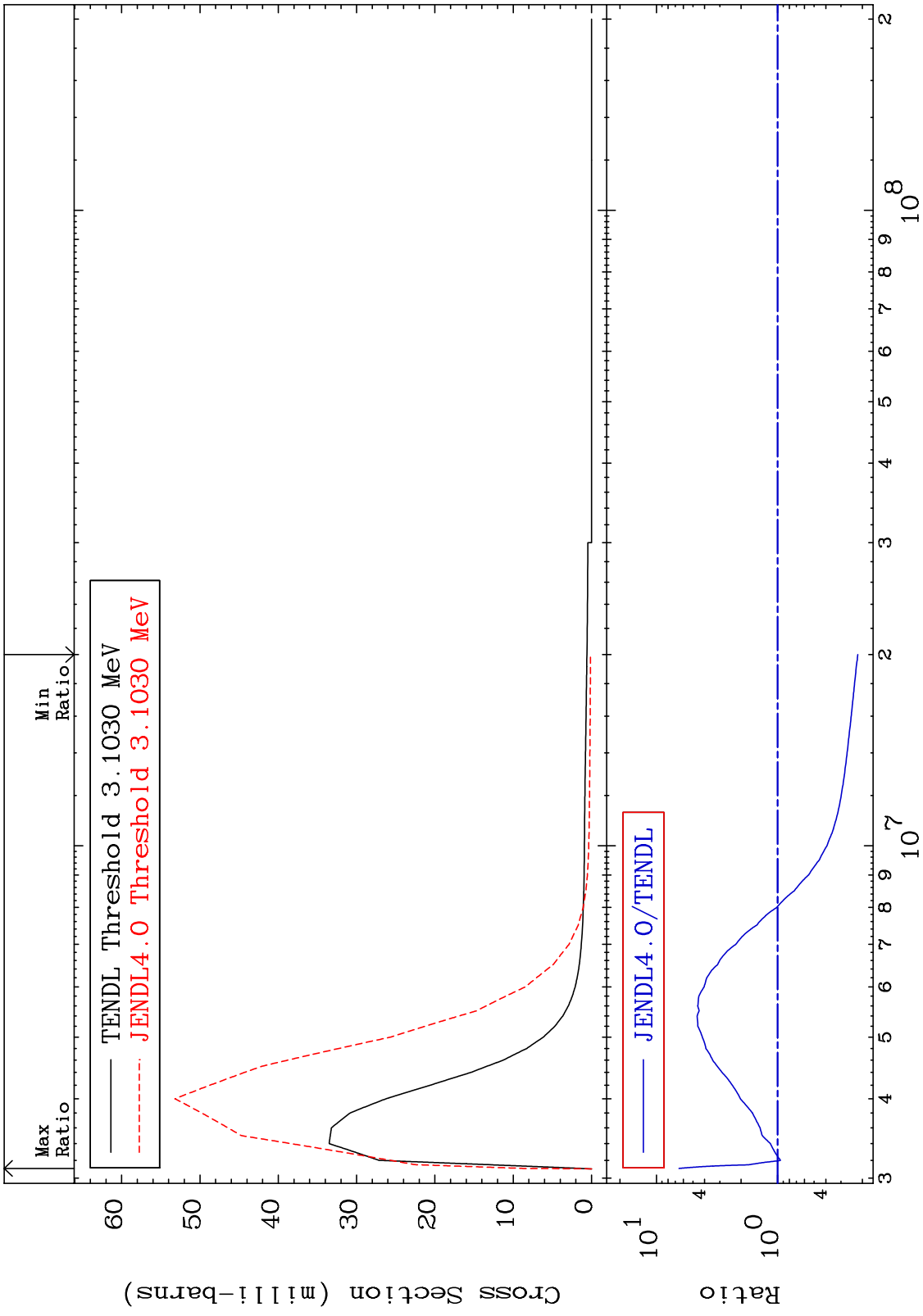
MAT 6025 MT= 75 (n,n') Level Cross Section 60-Nd-142  
 -67.76 To 366.2 %



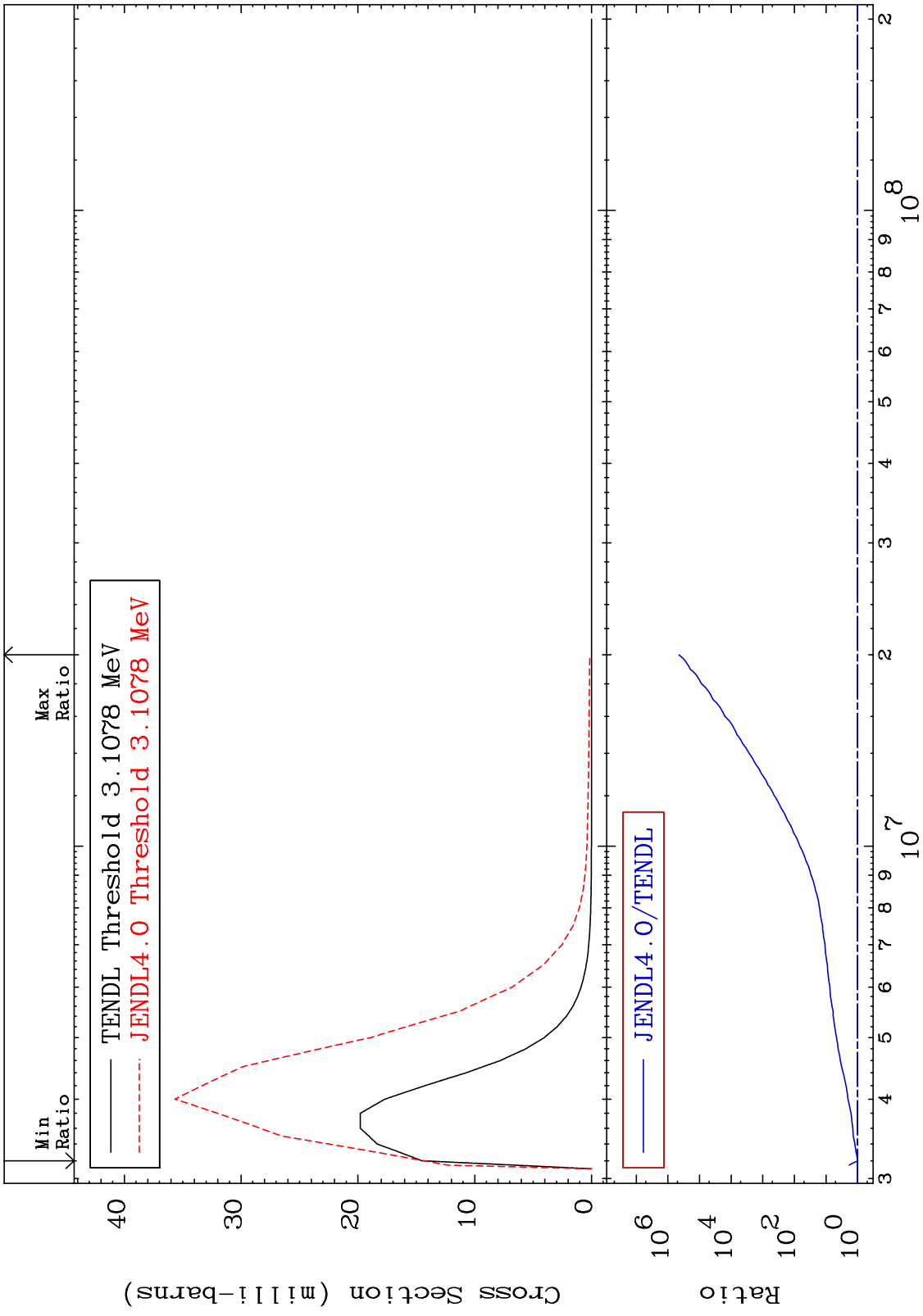
MAT 6025 MT= 76 (n,n') Level Cross Section 60-Nd-142  
 -75.44 To 329.4 %



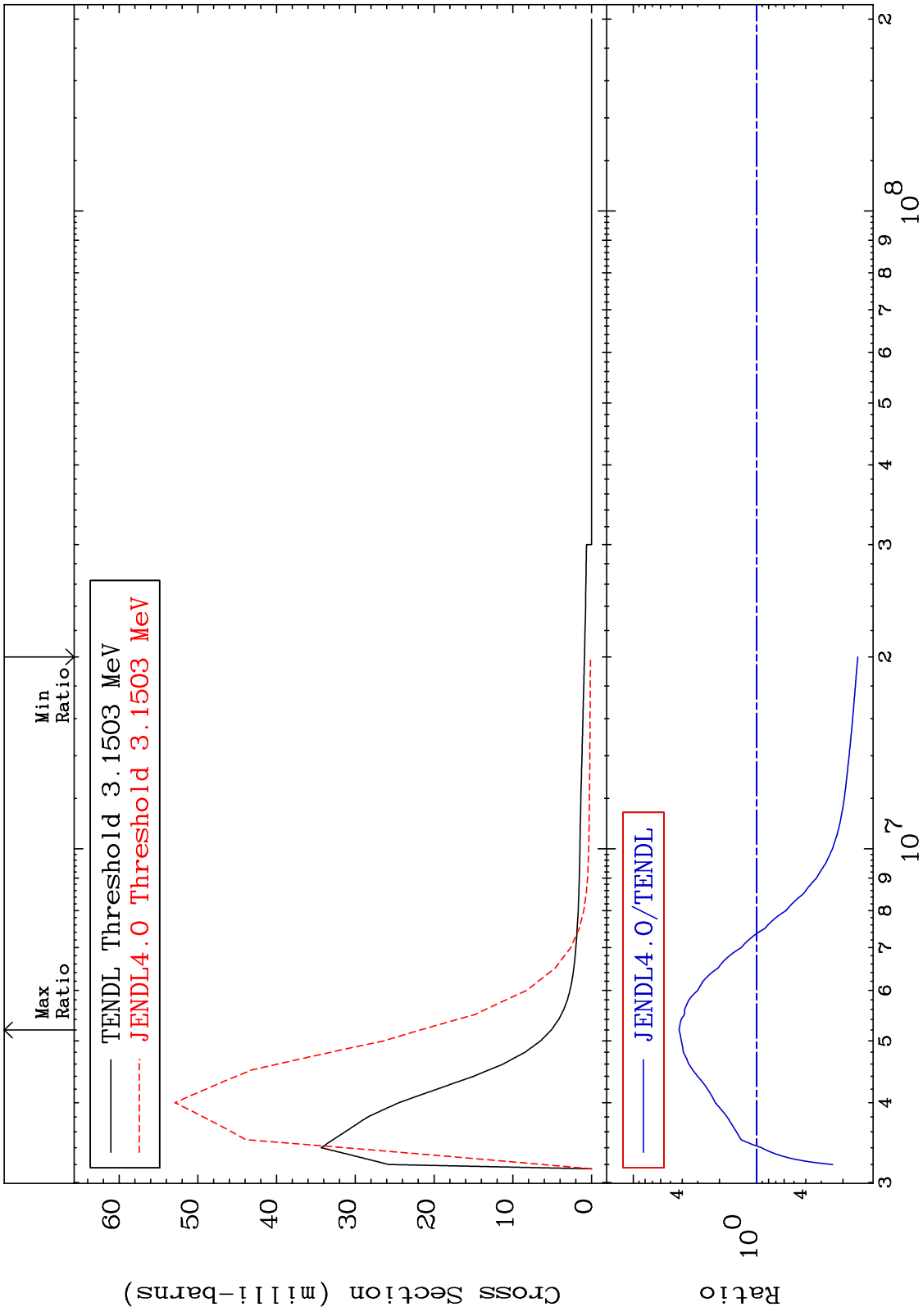
MAT 6025 MT= 77 (n,n') Level Cross Section 60-Nd-142  
 -78.21 To 550.2 %



MAT 6025 MT= 78 (n,n') Level Cross Section 60-Nd-142  
 -1.146 To 9999. %



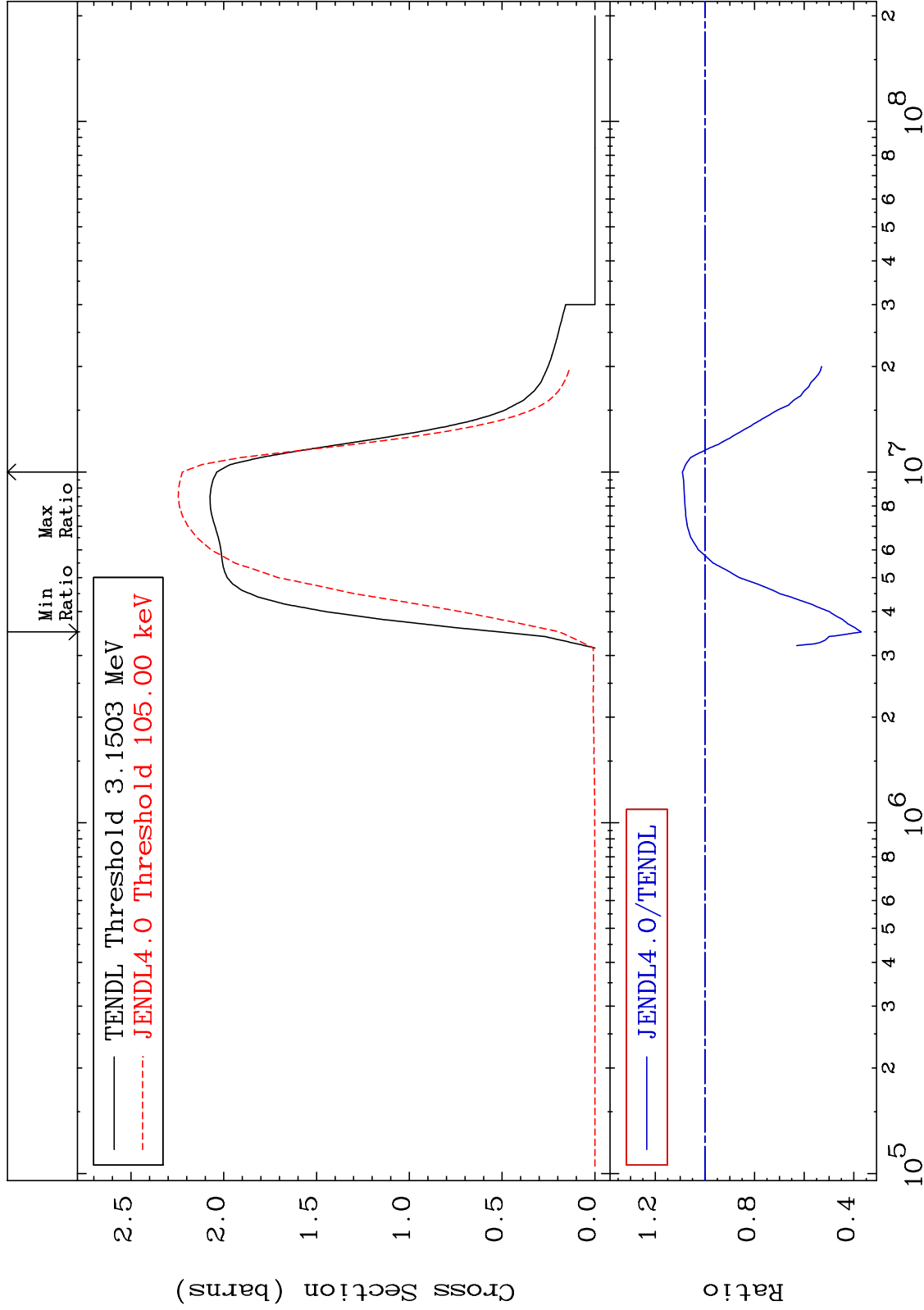
MAT 6025 MT= 79 (n,n') Level Cross Section 60-Nd-142  
 -84.84 To 325.5 %



MAT 6025

(n, n') Continuum  
Cross Section

60-Nd-142  
-62.99 To 9.055 %

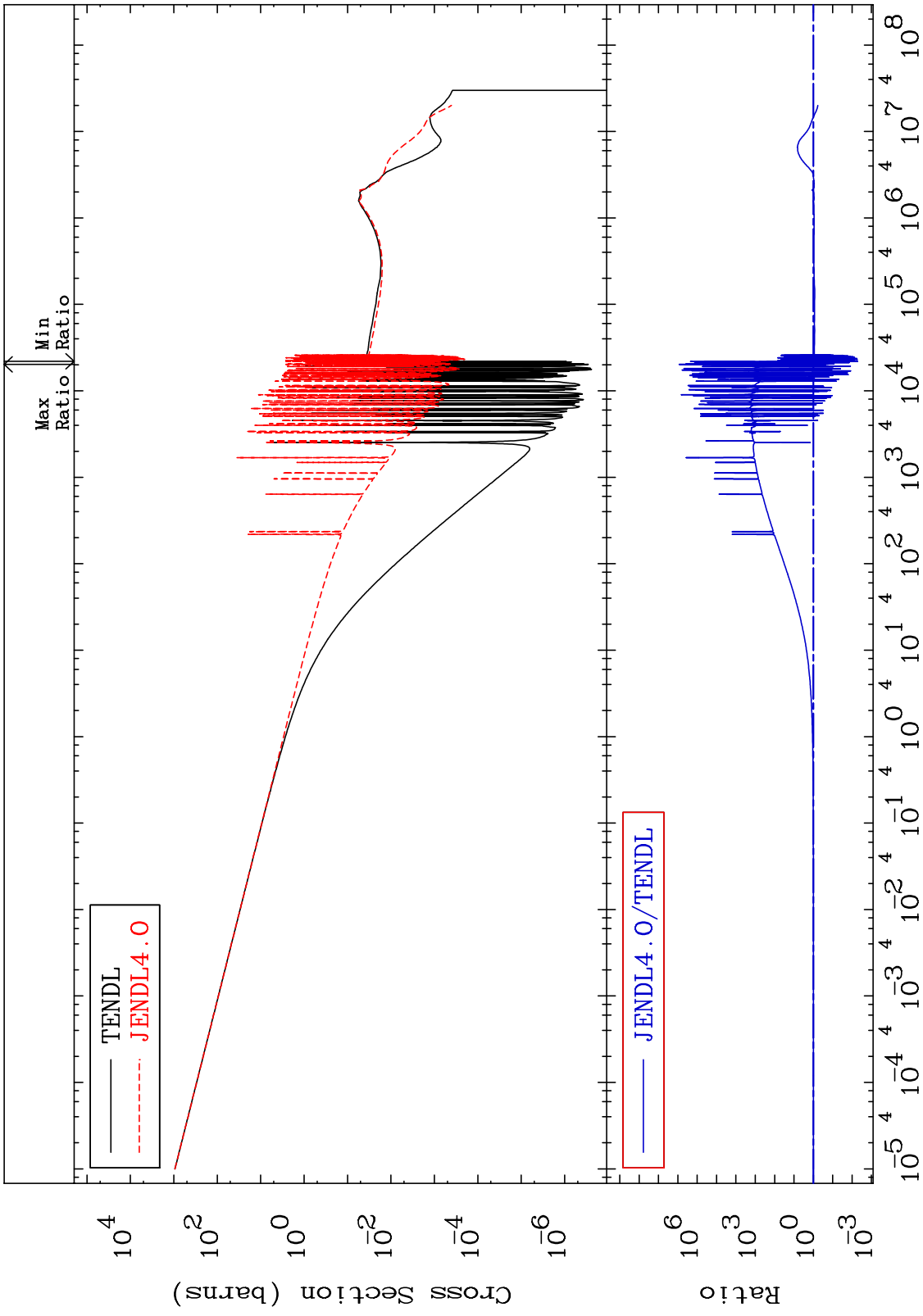


38

Incident Energy (eV)

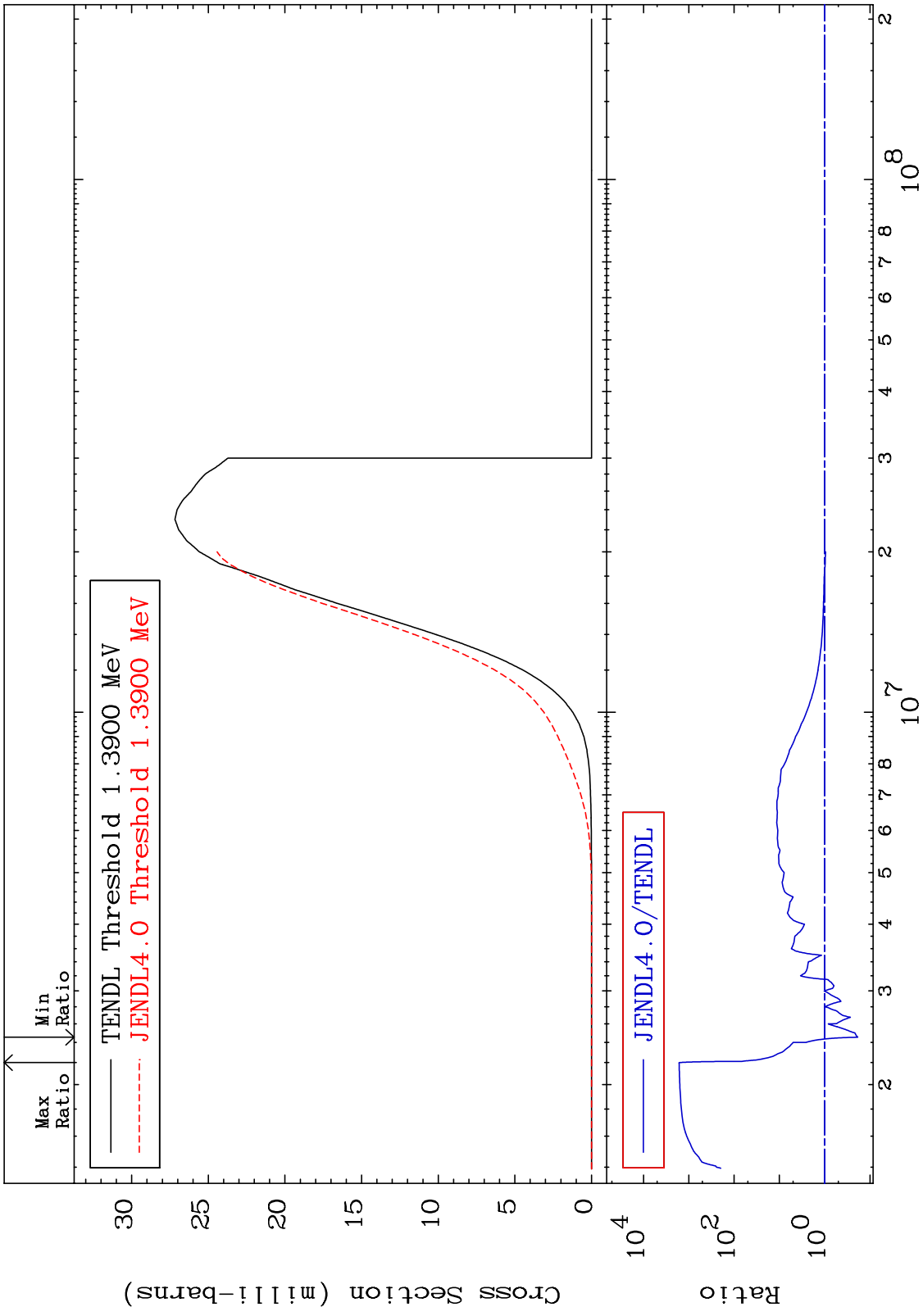
60-Nd-142

MAT 6025  $(n, \gamma)$  Cross Section  $^{60}\text{Nd}-142$  -99.50 To 9999. %



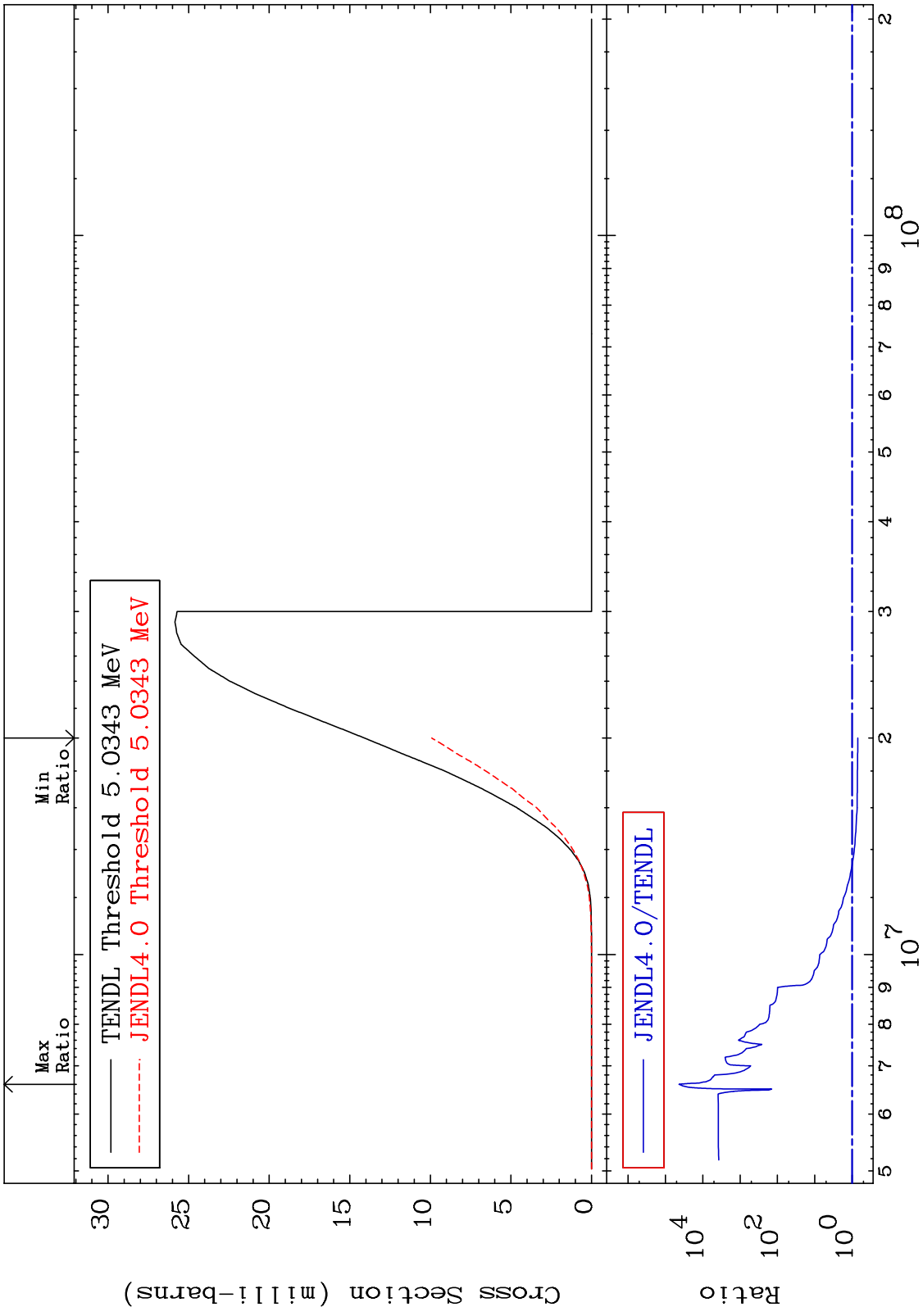
39 Incident Energy (eV)  $^{60}\text{Nd}-142$

MAT 6025 (n,p) Cross Section 60-Nd-142 -81.50 To 9999. %

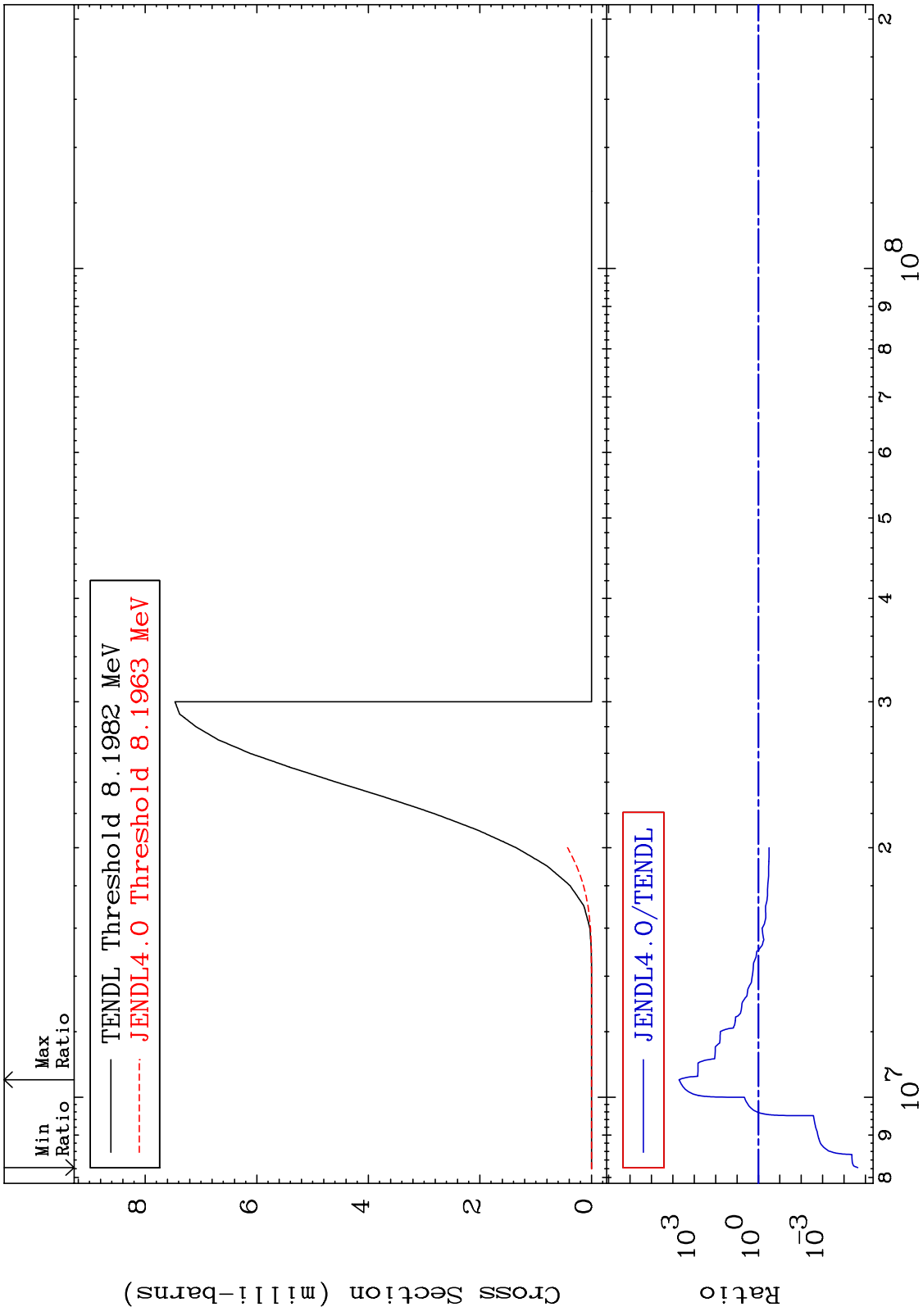


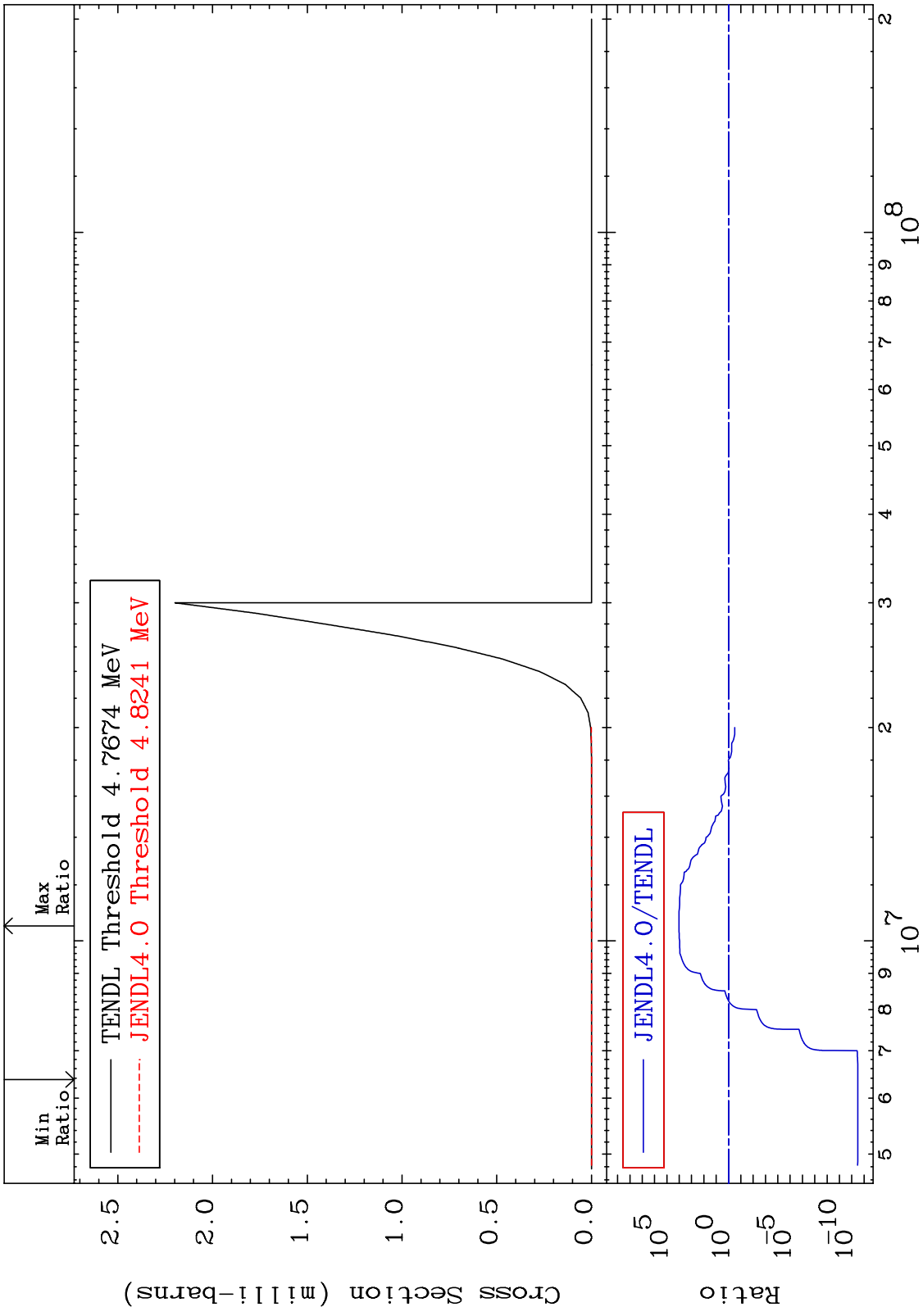
40 60-Nd-142

MAT 6025 (n,d) Cross Section 60-Nd-142  
 -29.62 To 9999. %

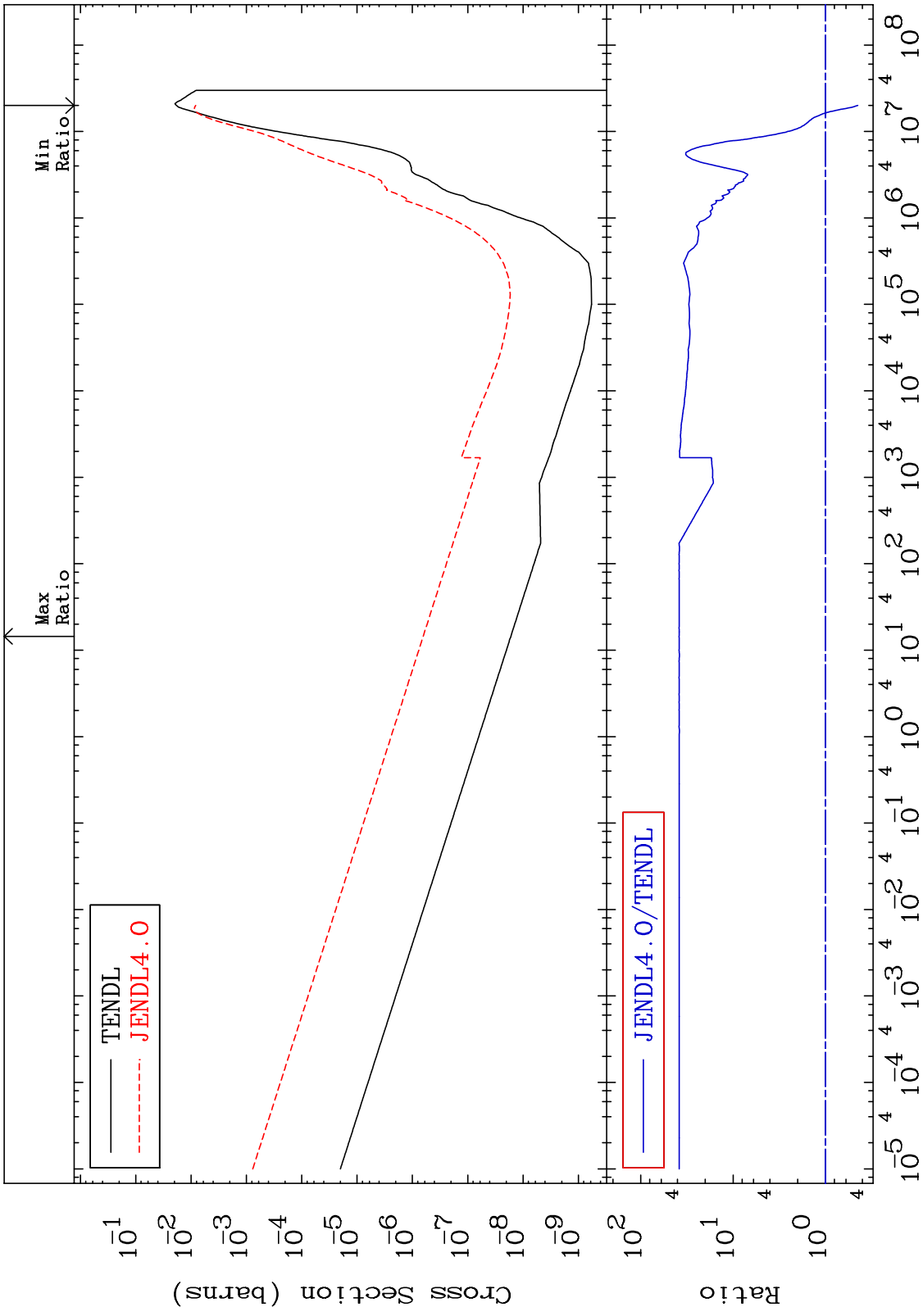


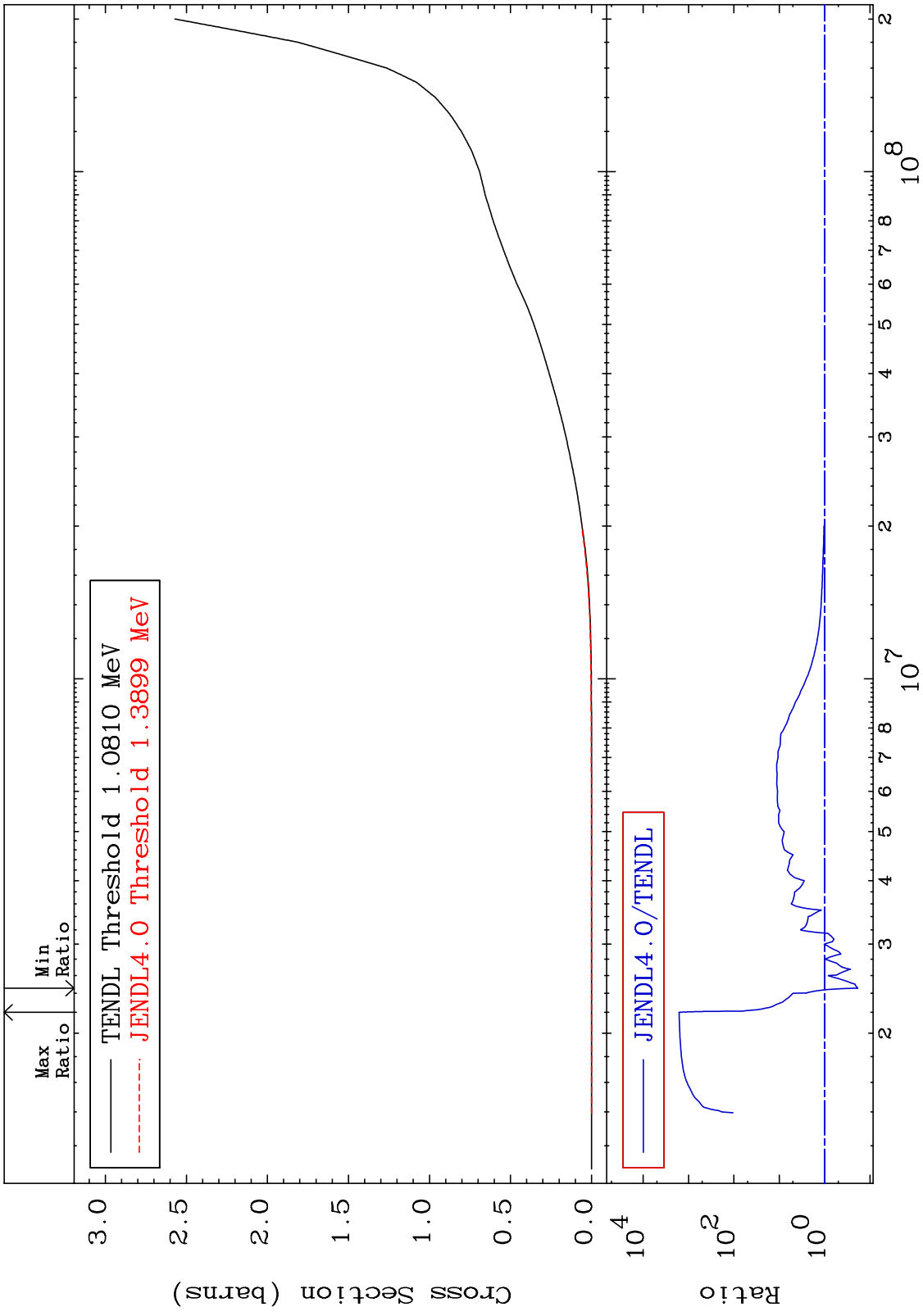
MAT 6025 (n,t) Cross Section 60-Nd-142 -100.0 To 9999. %



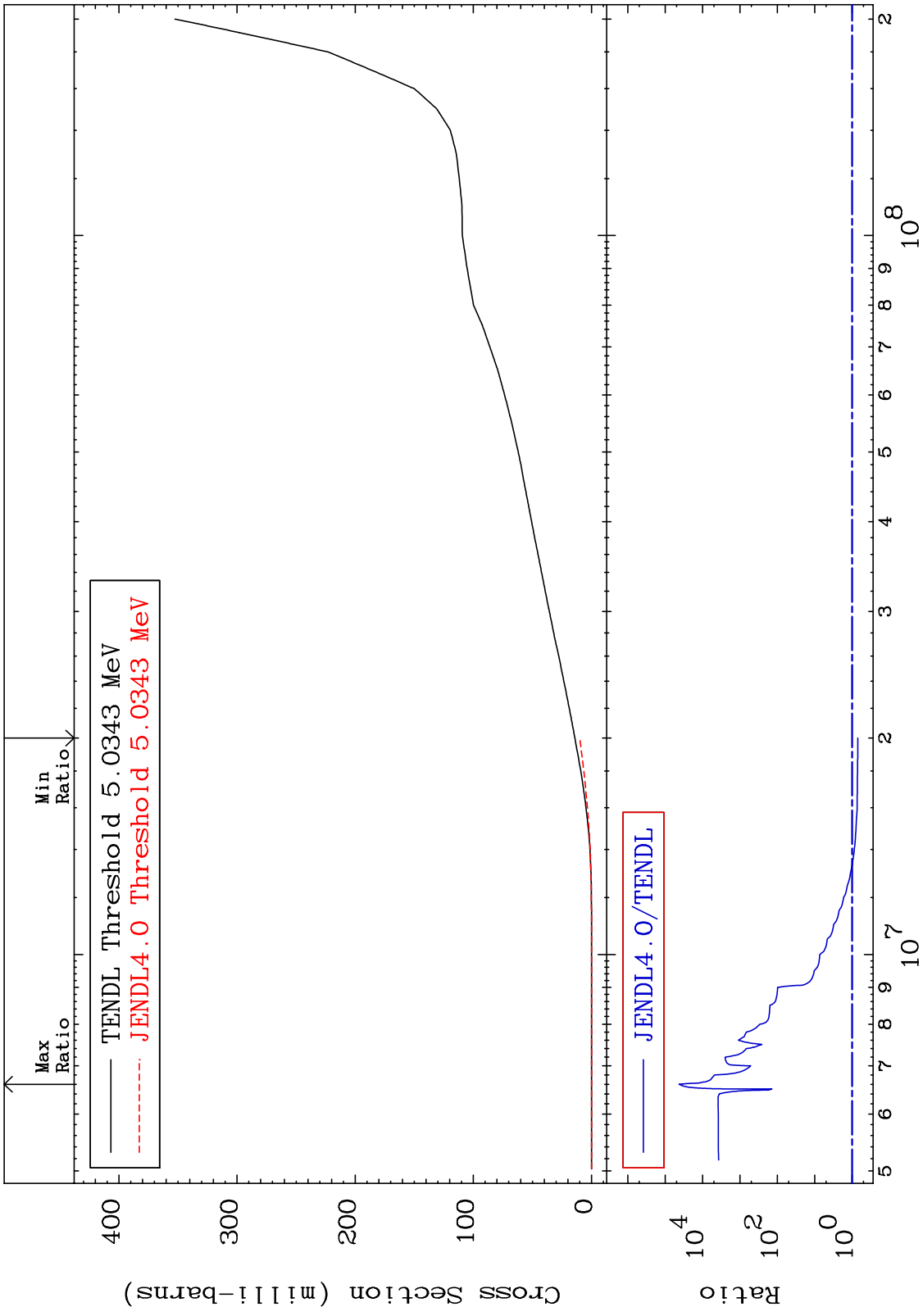


MAT 6025  $^{60}\text{Nd-142}$   $(n, \alpha)$  Cross Section -55.32 To 3747. %



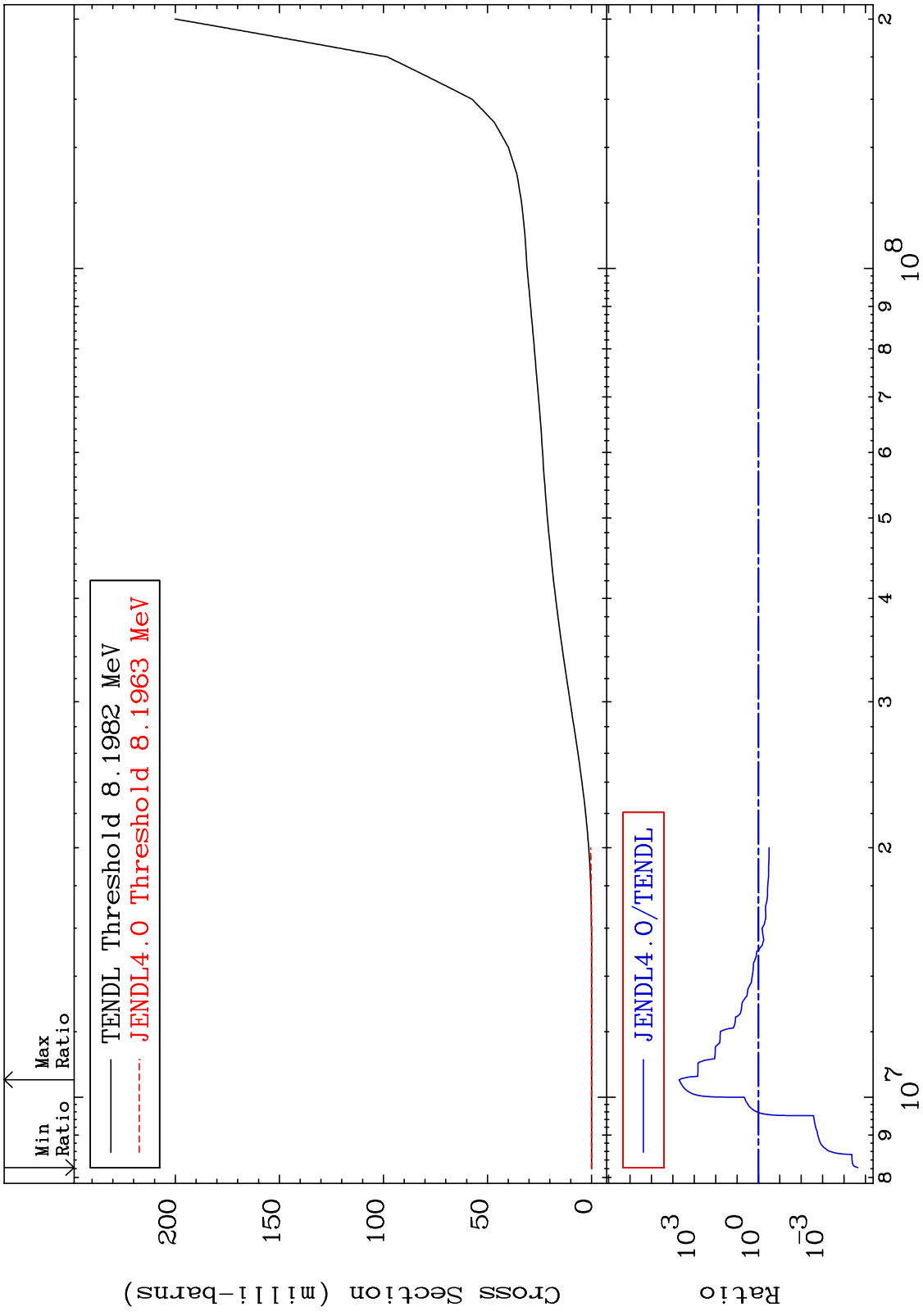


MAT 6025 Deuterium Production Cross Section 60-Nd-142 -29.45 To 9999. %

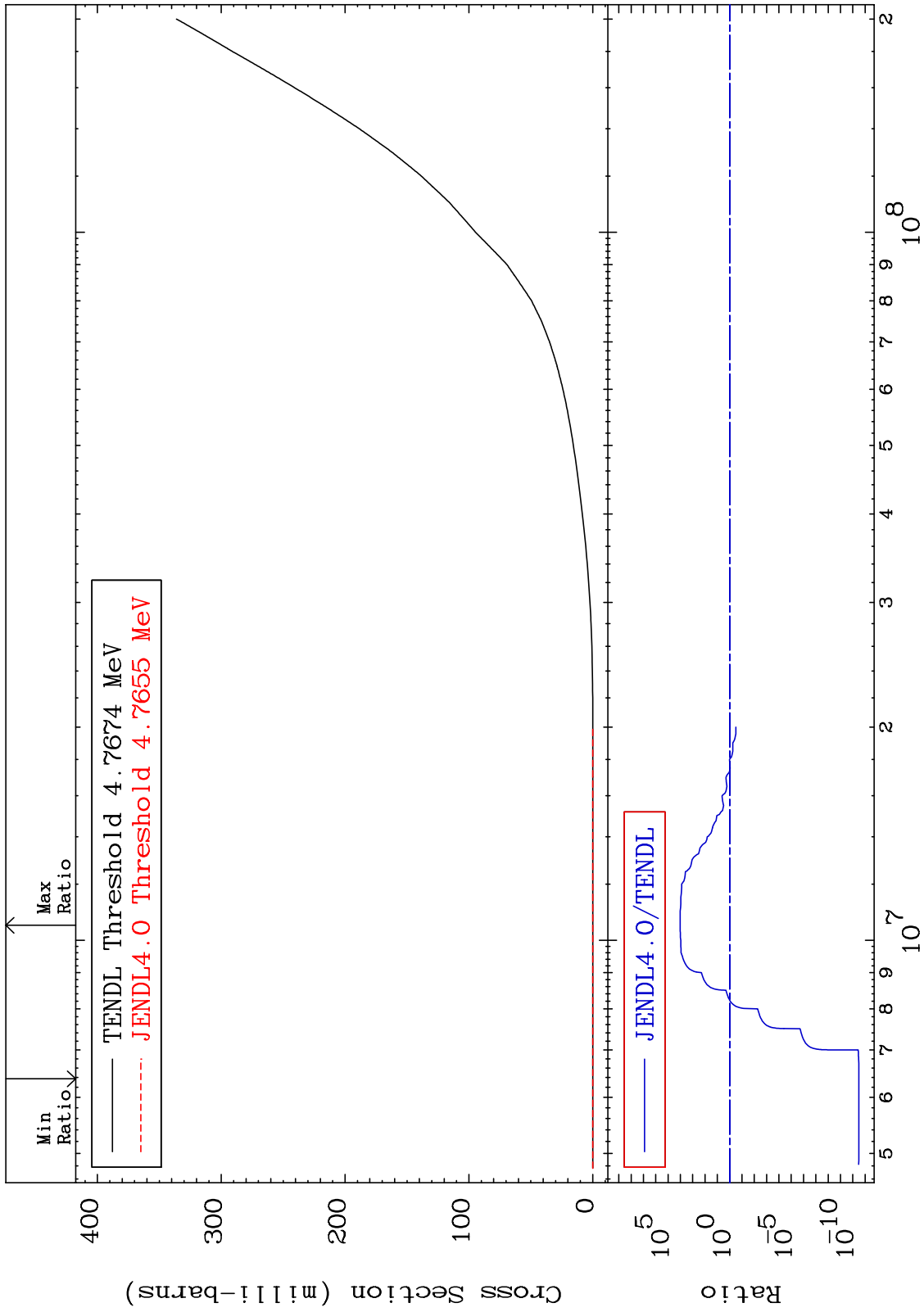


46 60-Nd-142 Incident Energy (eV)

MAT 6025 Tritium Production Cross Section 60-Nd-142 -100.0 To 9999. %

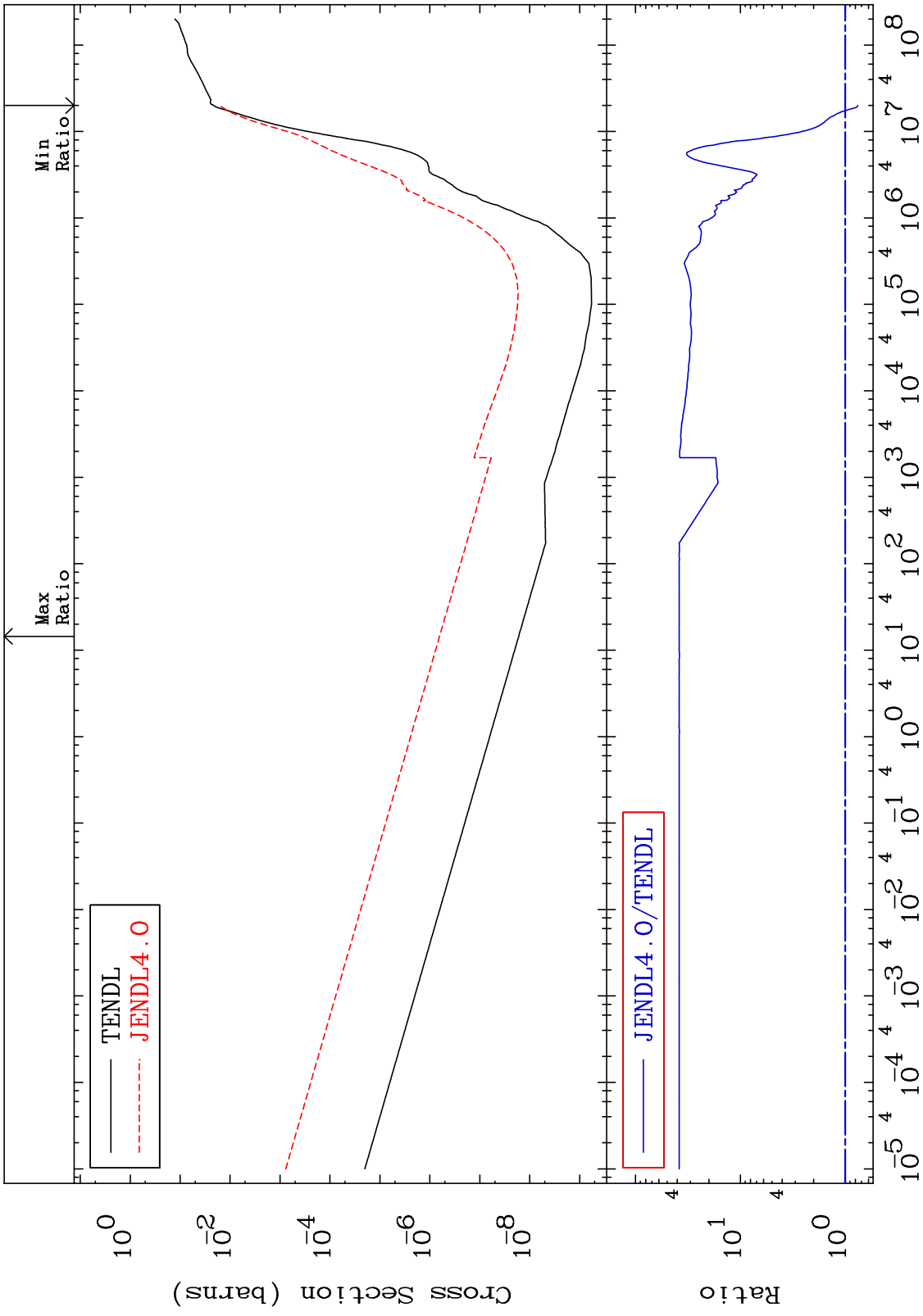


MAT 6025 He-3 Production Cross Section 60-Nd-142  
 -100.0 To 9999. %

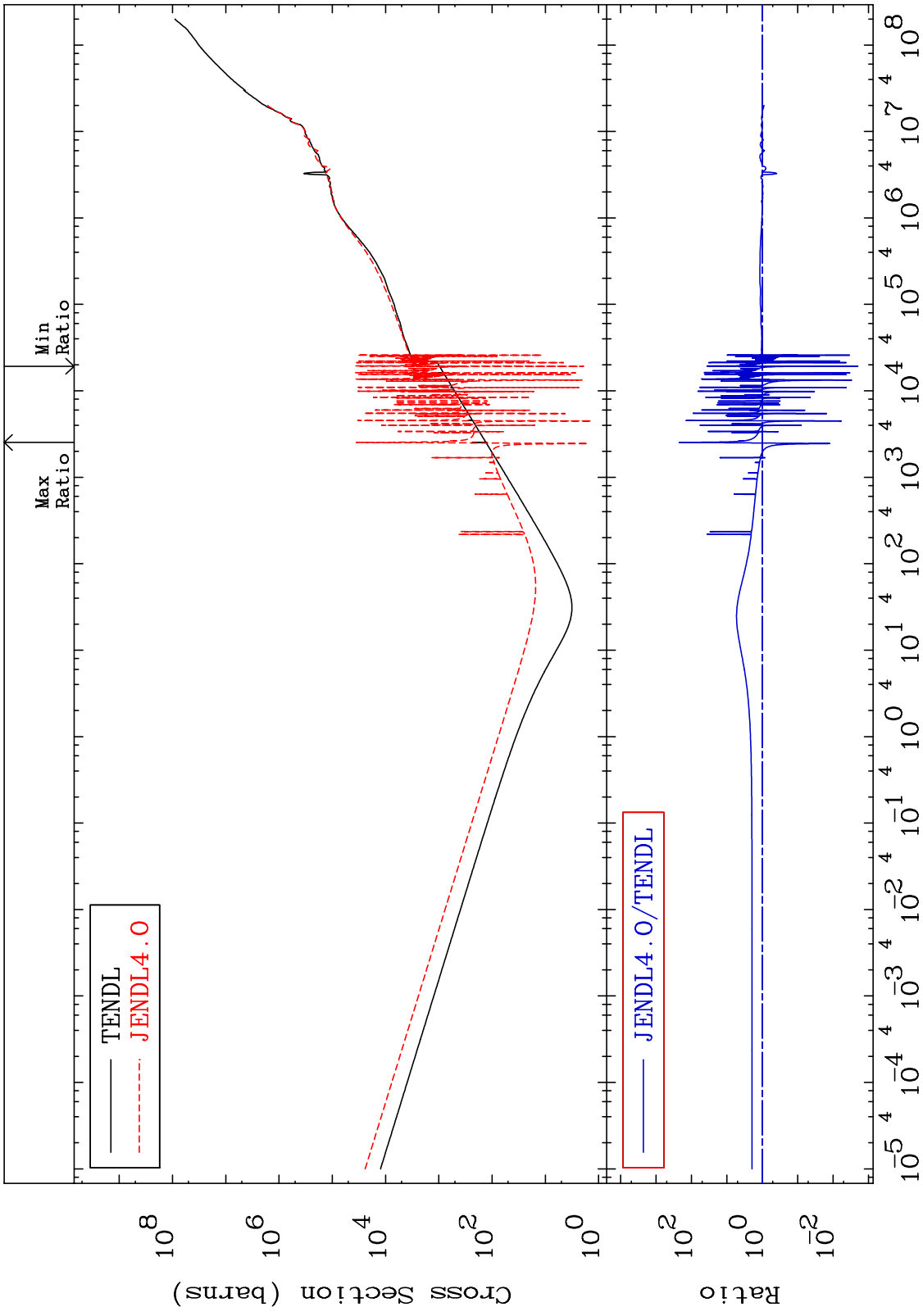


48 60-Nd-142 Incident Energy (eV)

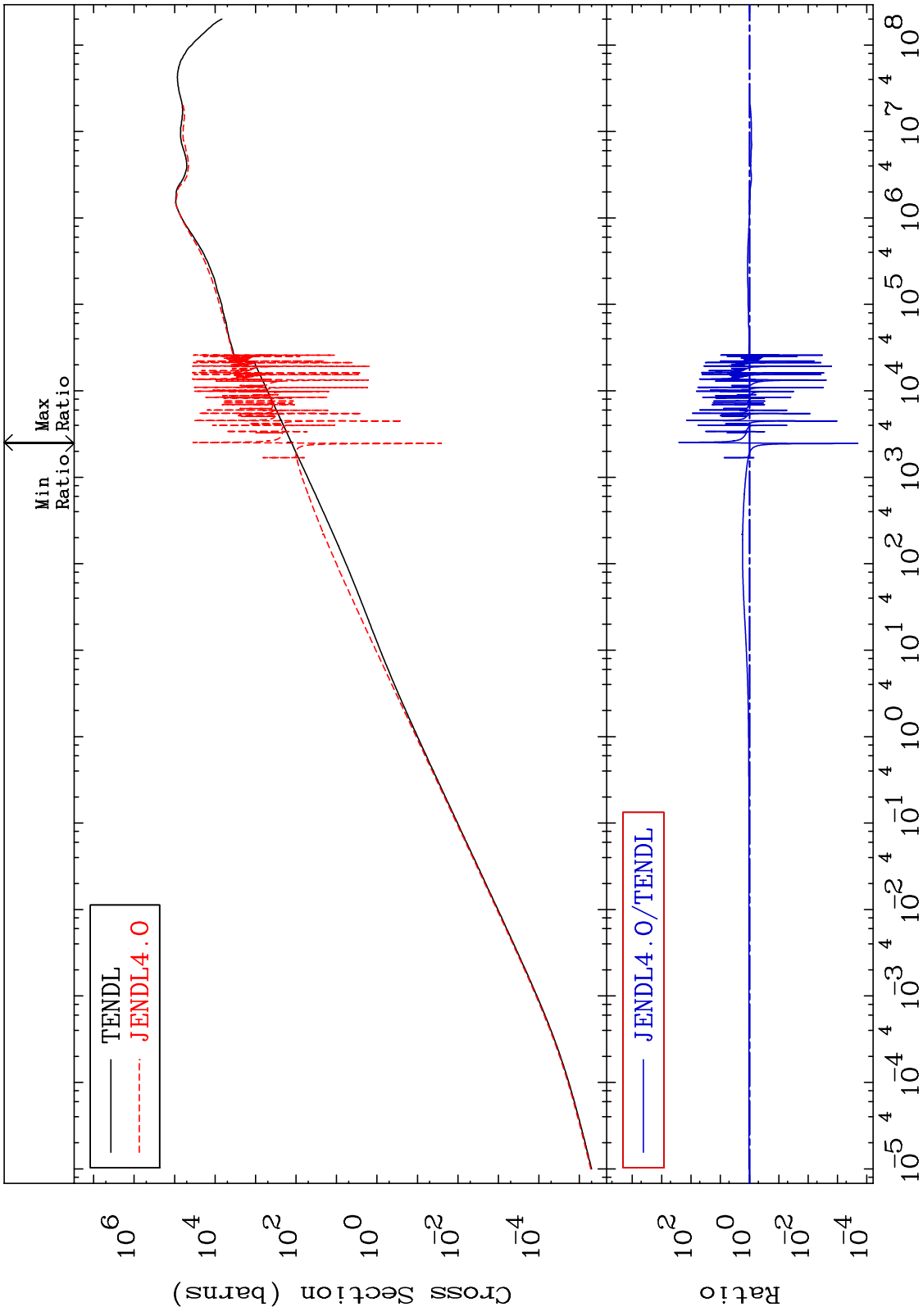
MAT 6025 60-Nd-142  
 He-4 Production -24.19 To 3747. %  
 Cross Section



MAT 6025      Kerma total (eV-barns)  
 Cross Section      60-Nd-142  
 -99.80 To 9999. %

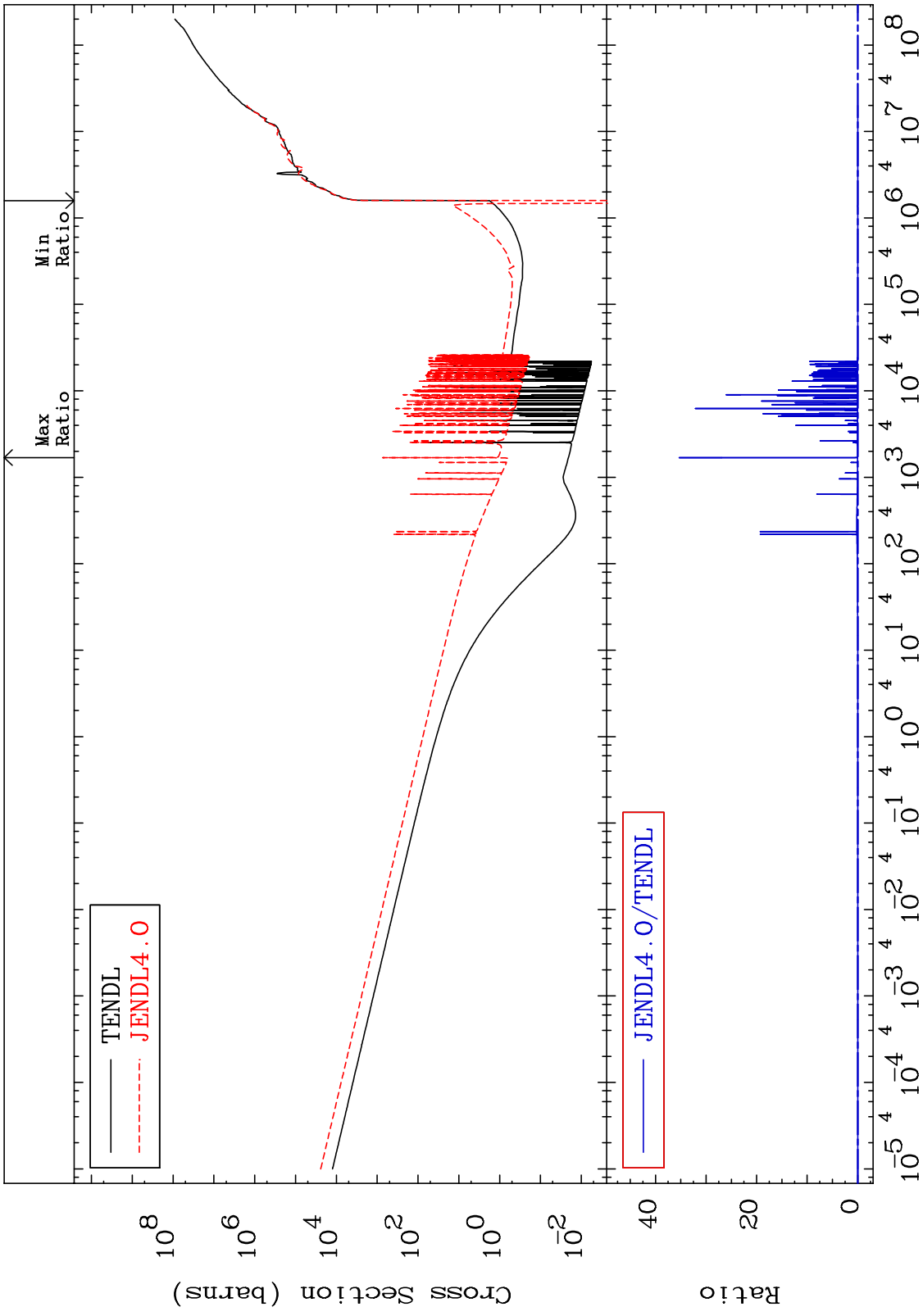


MAT 6025 60-Nd-142 -99.98 To 9999. %  
 Kerma elastic Cross Section



60-Nd-142  
 Incident Energy (eV)

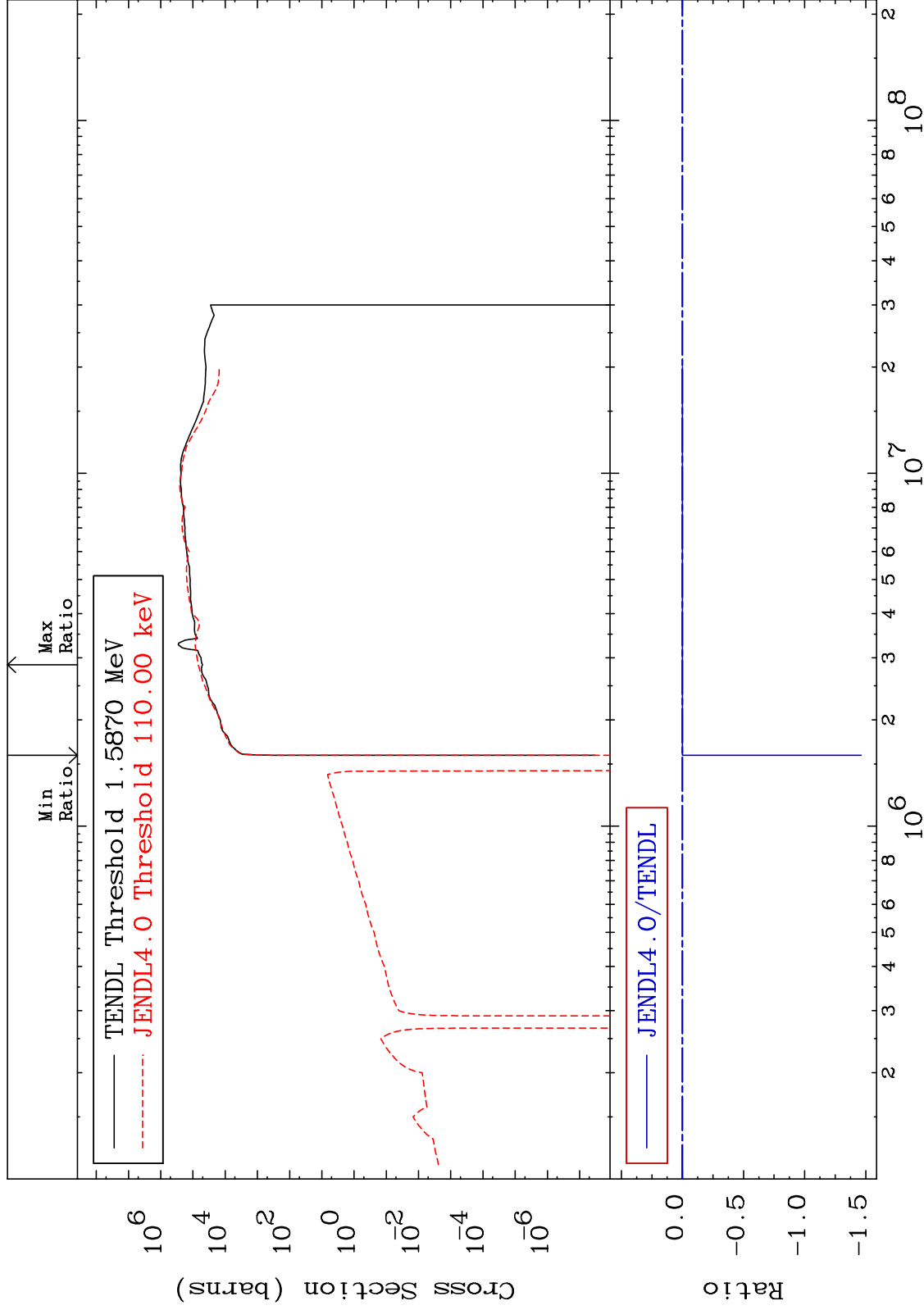
MAT 6025 Kerma non-elastic (all but mt2) Cross Section 60-Nd-142 -2181. To 9999. %



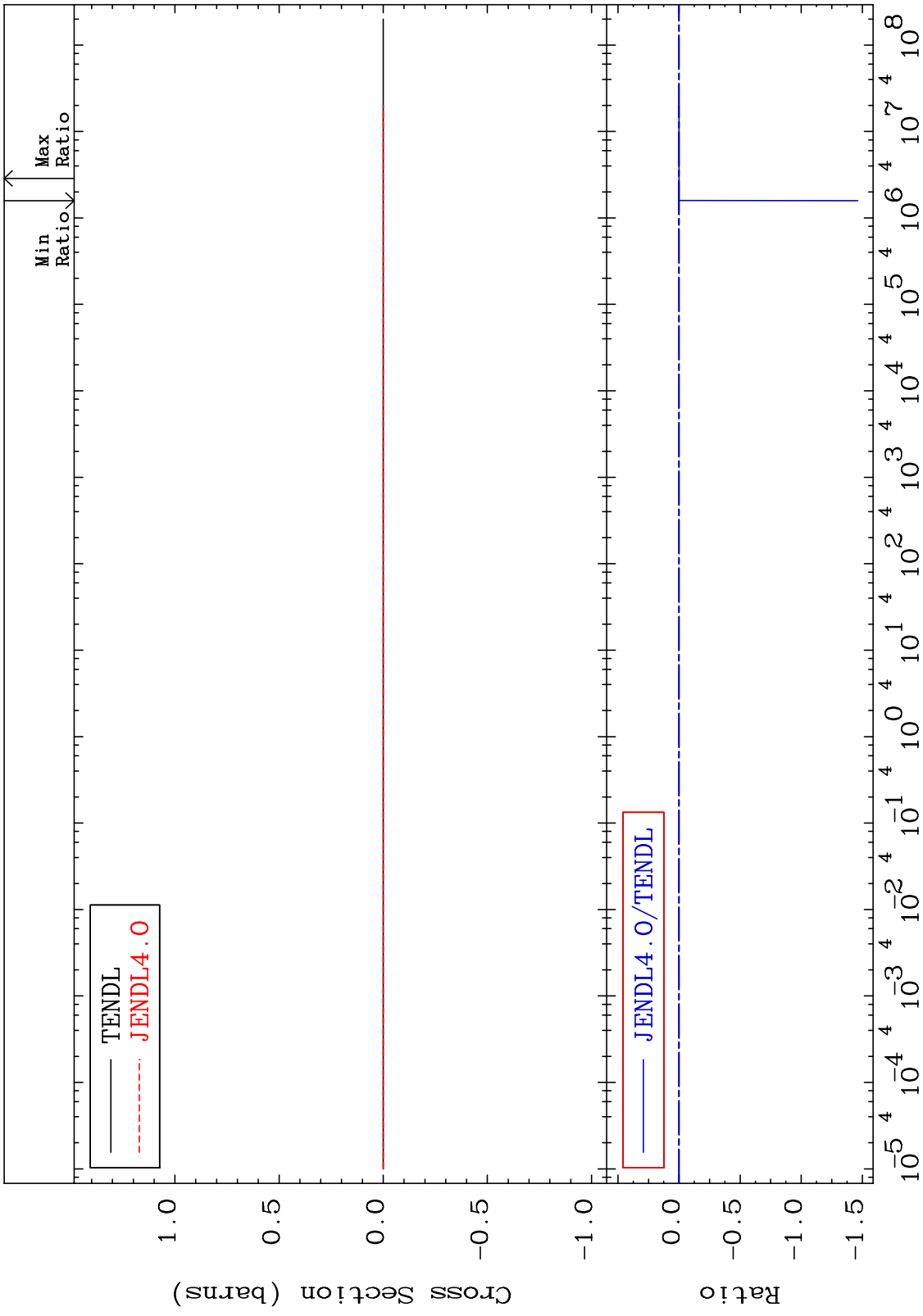
MAT 6025

Kerma inelastic (mt51-91)  
Cross Section

60-Nd-142  
-9999. To 33.93 %



MAT 6025      Kerma fission (mt18 or mt19-20-21-38)      60-Nd-142  
 Cross Section      -9999. To 33.93 %

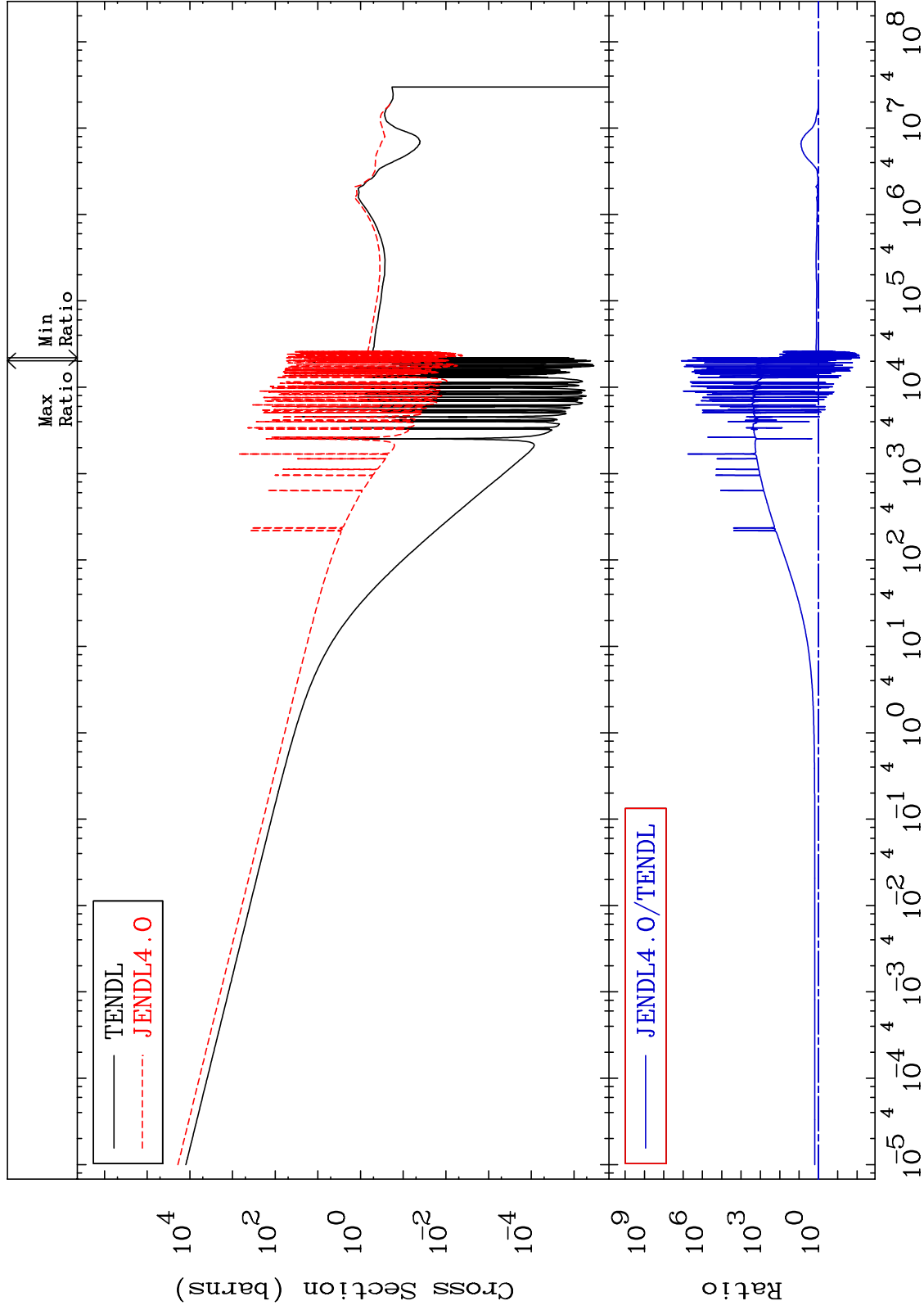


54      Incident Energy (eV)      60-Nd-142

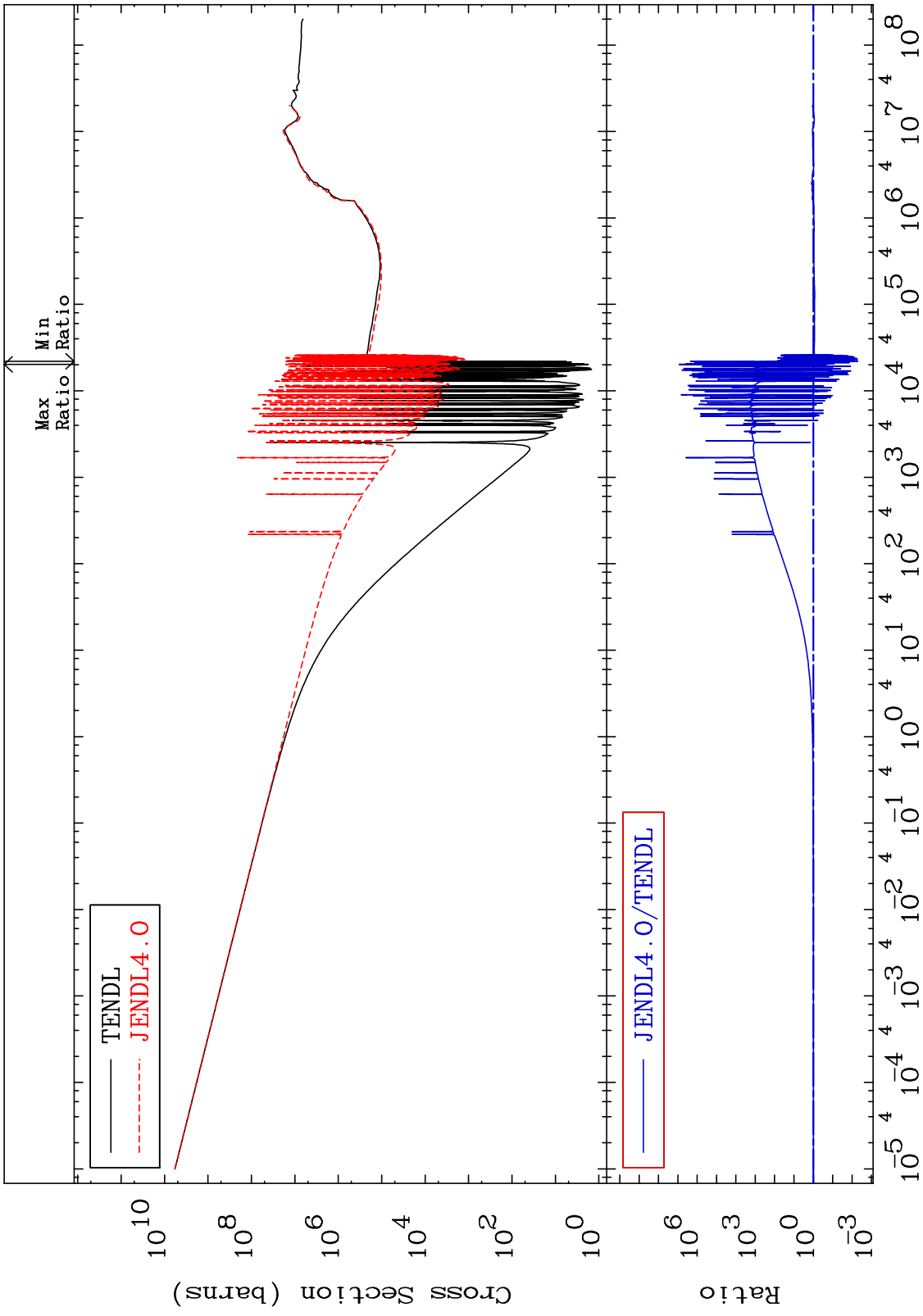
MAT 6025

Kerma capture (mt102)  
Cross Section

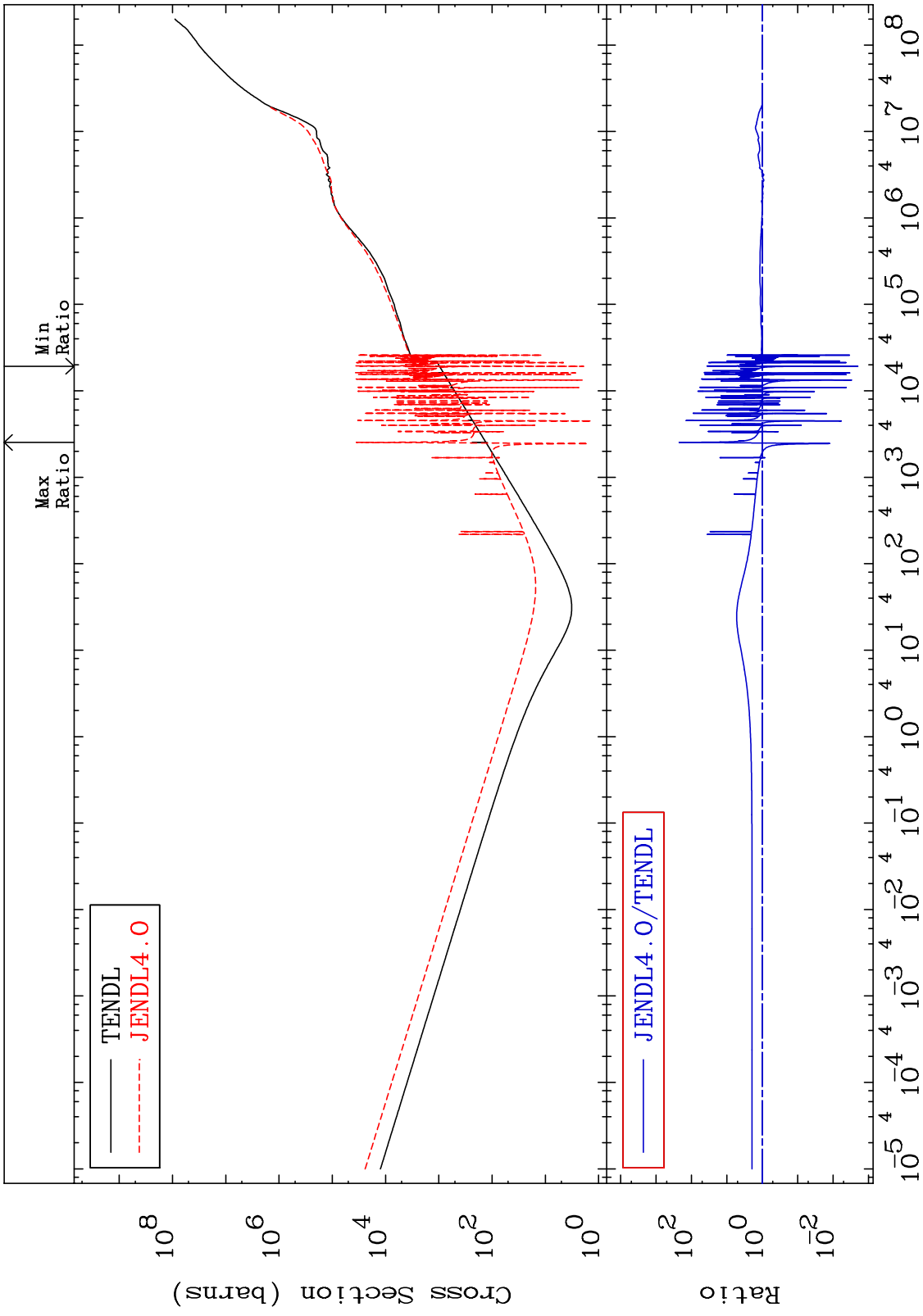
60-Nd-142  
-99.28 To 9999. %



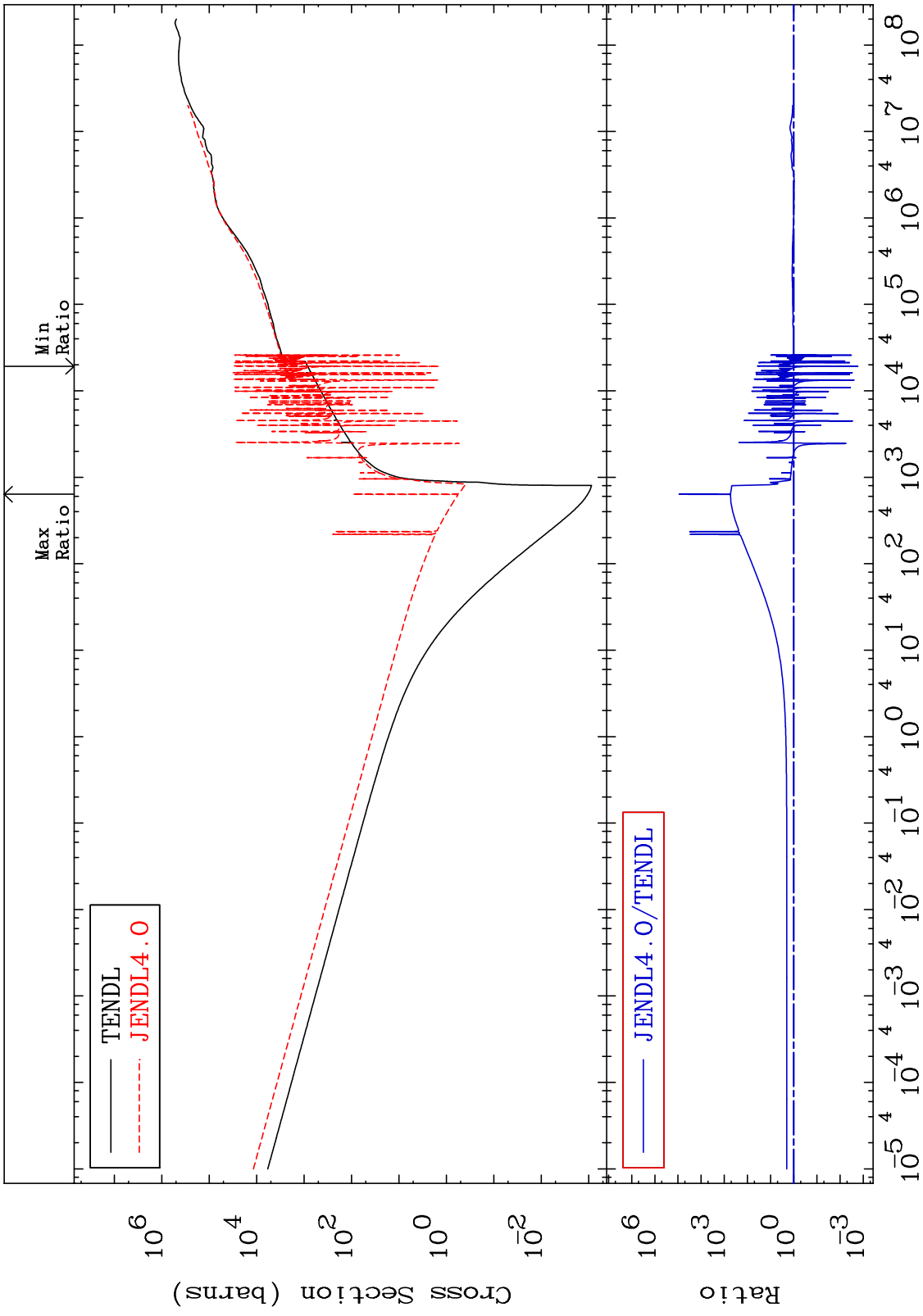
MAT 6025 60-Nd-142  
-99.50 To 9999. %  
 Total photon (eV-barns)  
 Cross Section



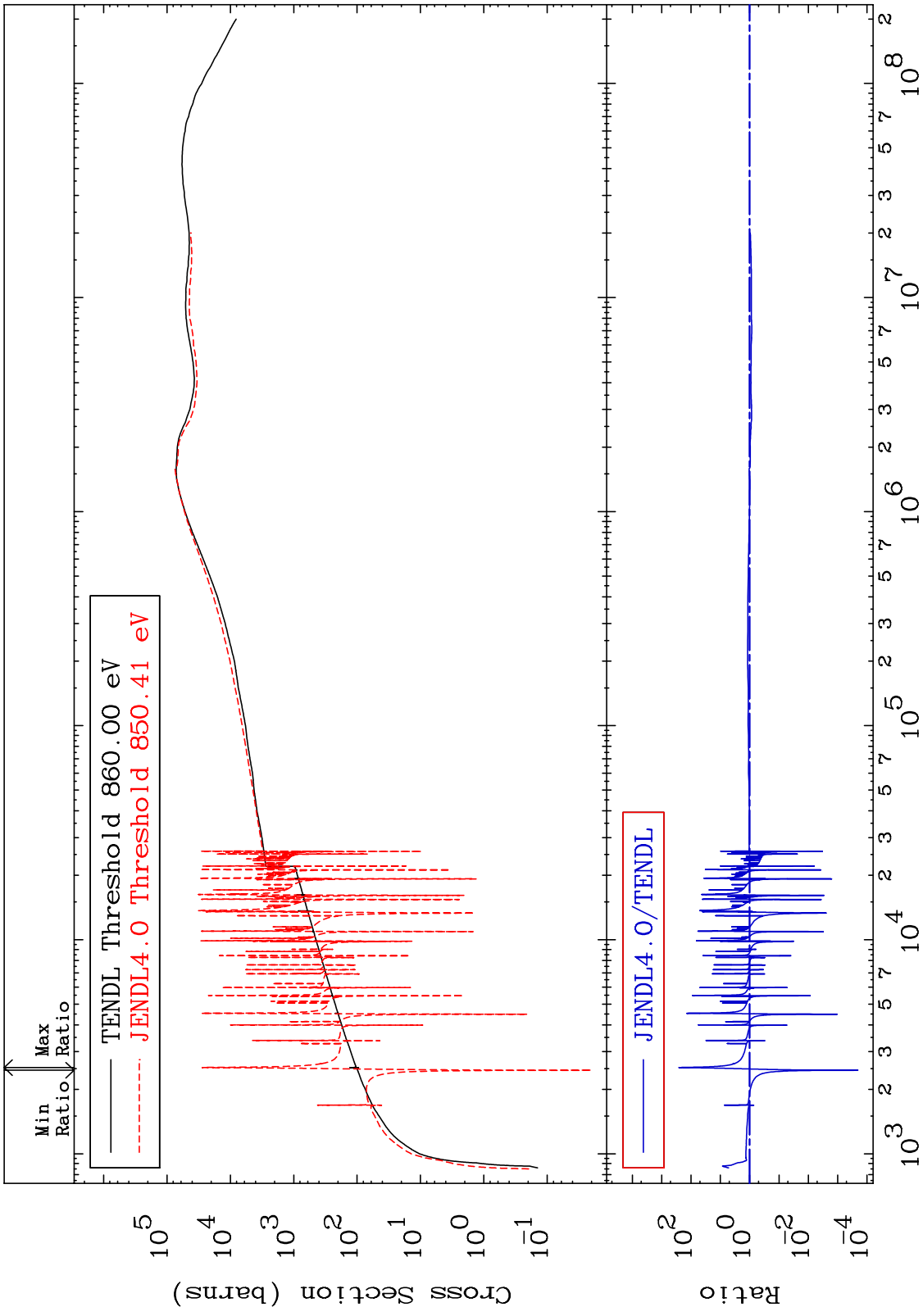
MAT 6025 Total kinematic kerma (high limit) 60-Nd-142  
 Cross Section -99.80 To 9999. %



MAT 6025      Dpa total (eV-barns)      60-Nd-142  
 -99.83 To 9999. %



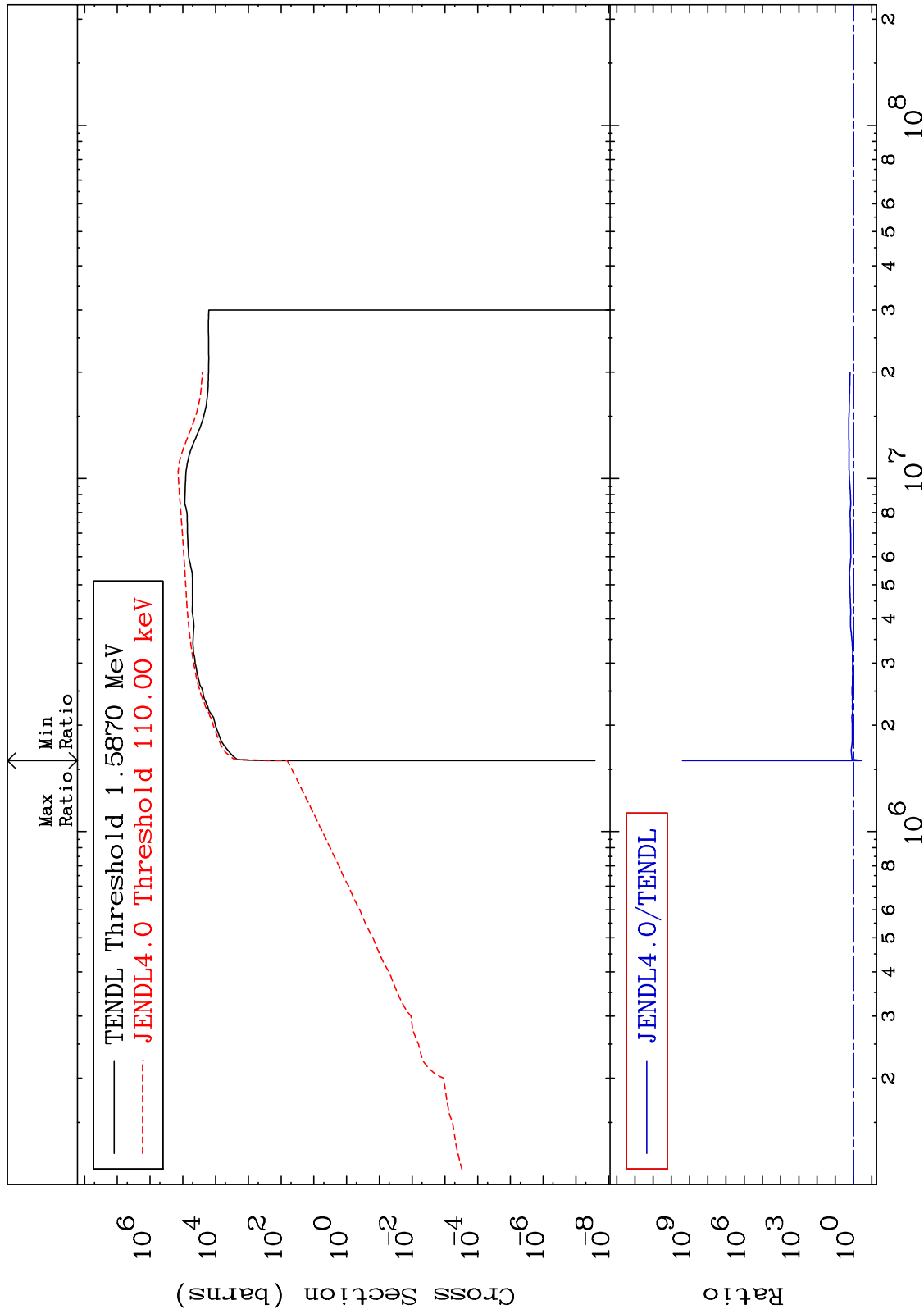
MAT 6025 60-Nd-142  
 Dpa elastic (mt2) -99.98 To 9999. %  
 Cross Section



MAT 6025

Dpa inelastic (mt51-91)  
Cross Section

60-Nd-142  
-62.74 To 9999. %

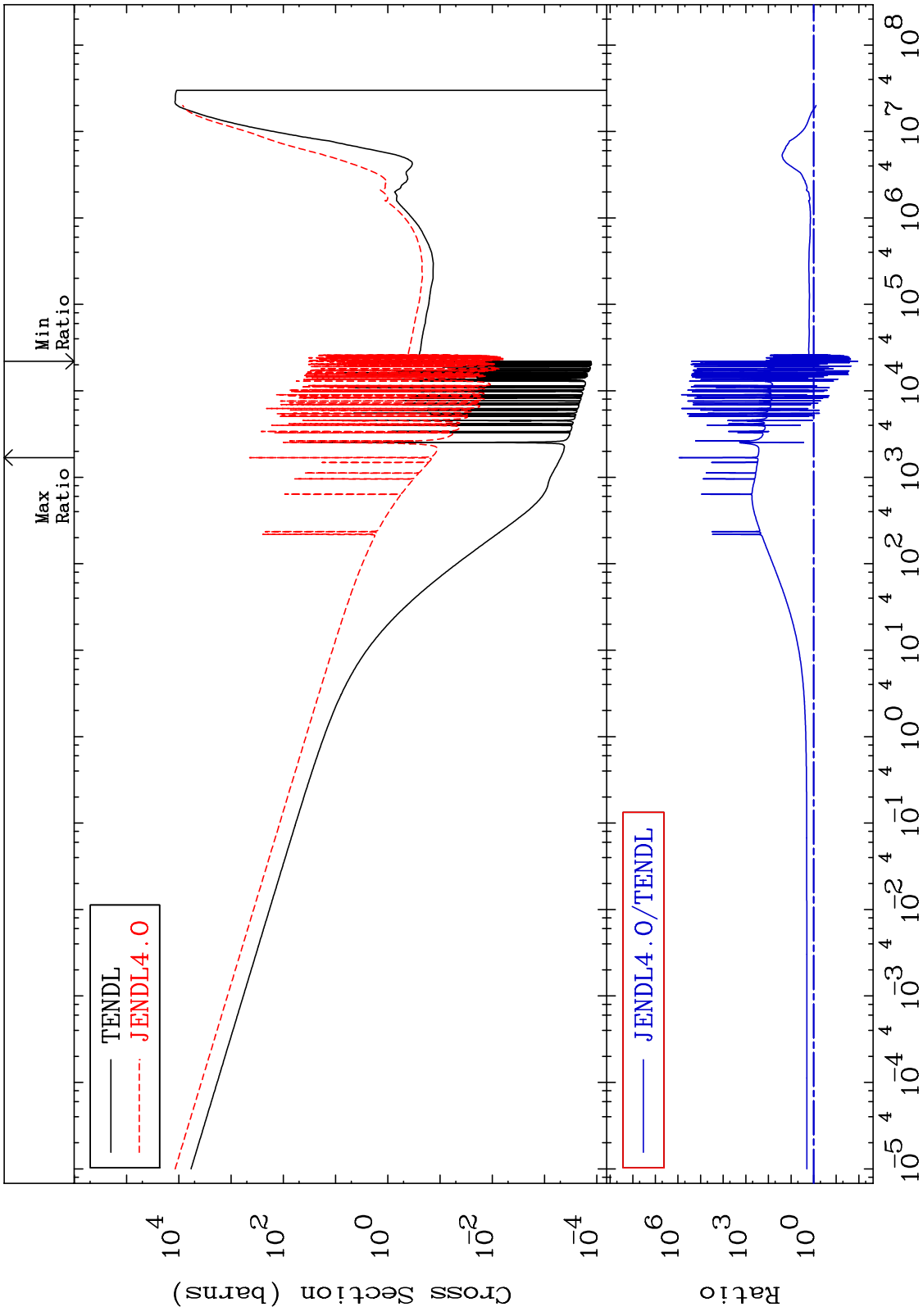


60

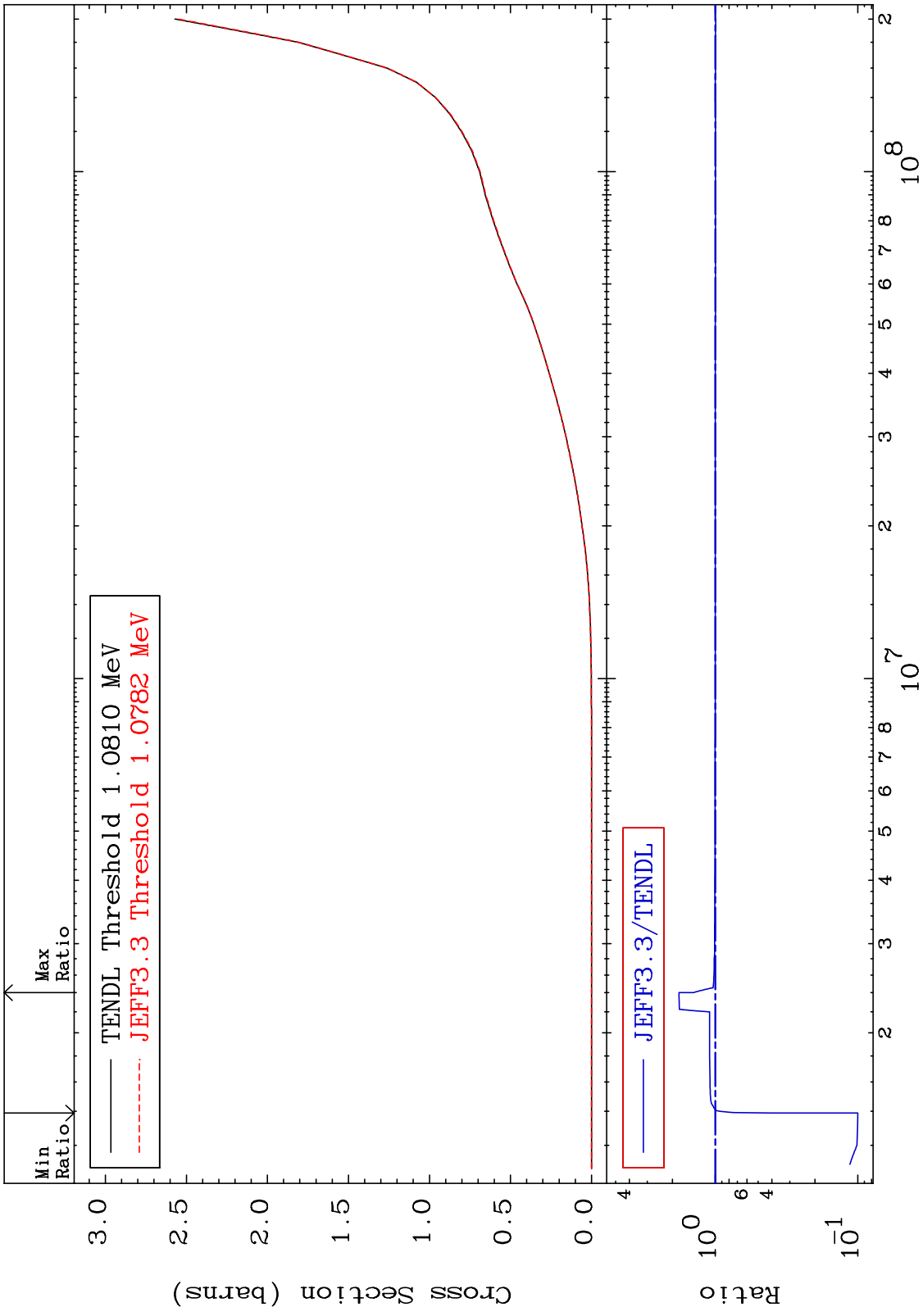
Incident Energy (eV)

60-Nd-142

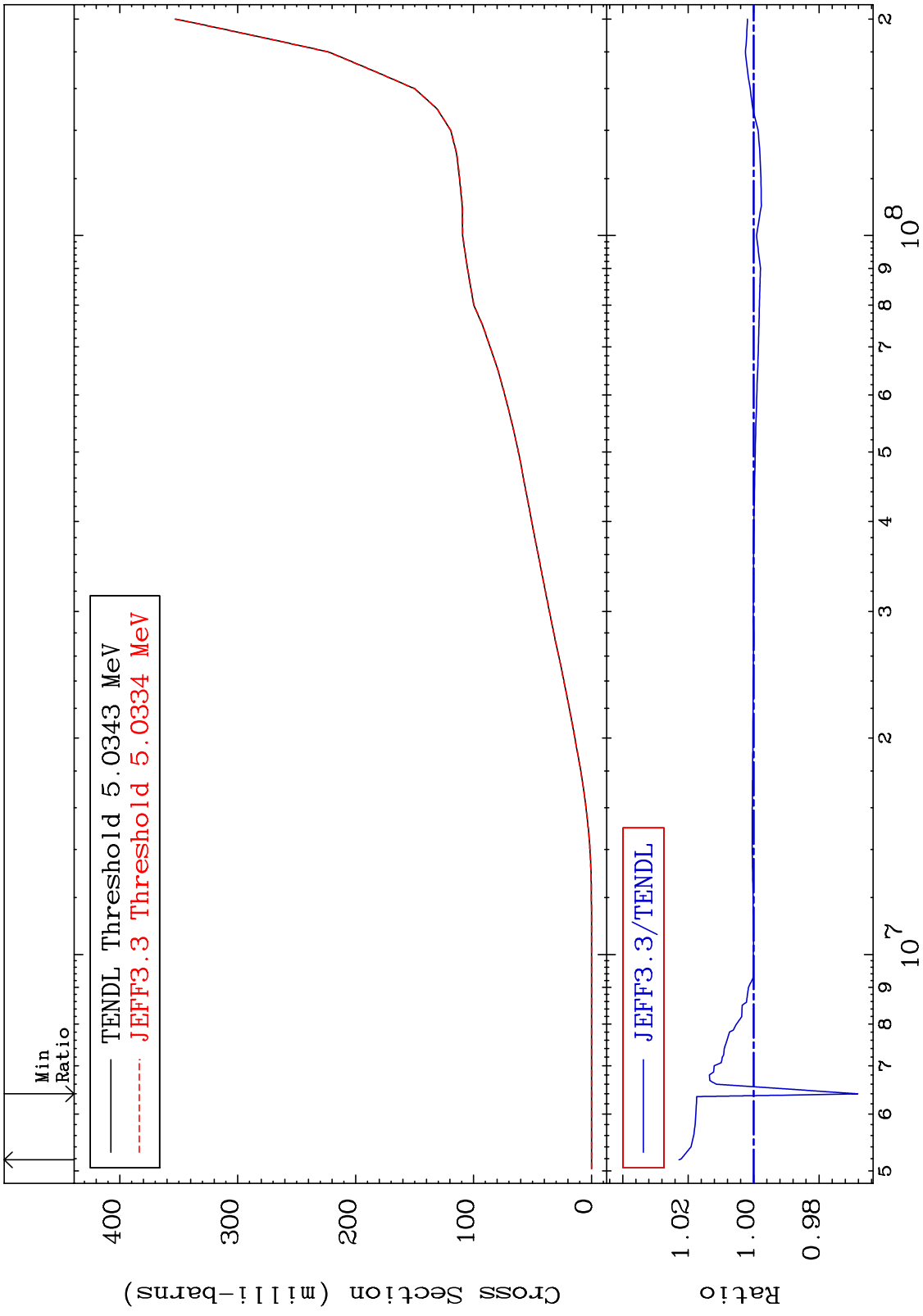
MAT 6025      Dpa disappearance (mt102 -120)      60-Nd-142  
 Cross Section      -98.89 To 9999. %



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



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

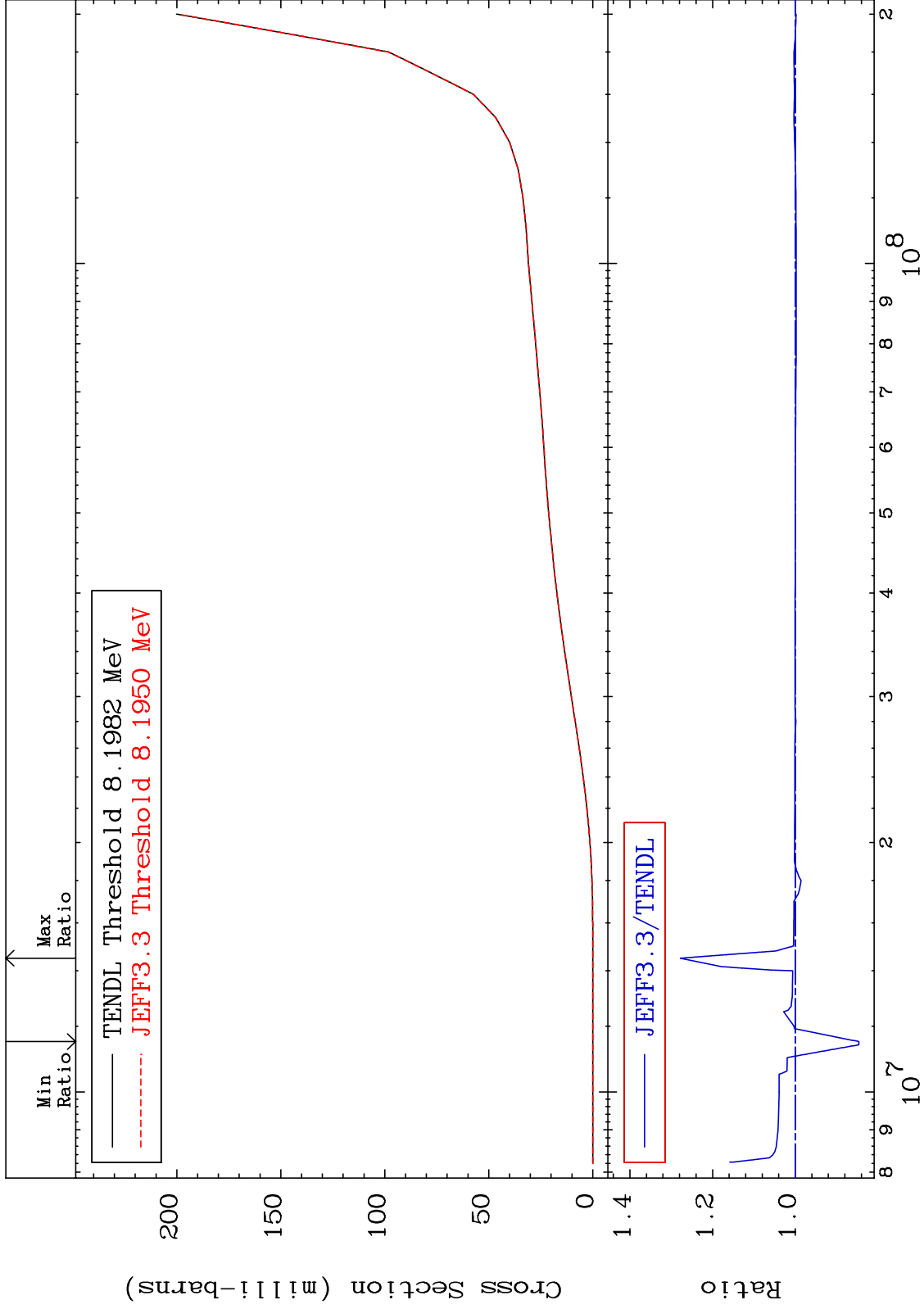


63 60-Nd-142 Incident Energy (eV)

MAT 6025

Tritium Production  
Cross Section

60-Nd-142  
-15.39 To 27.83 %

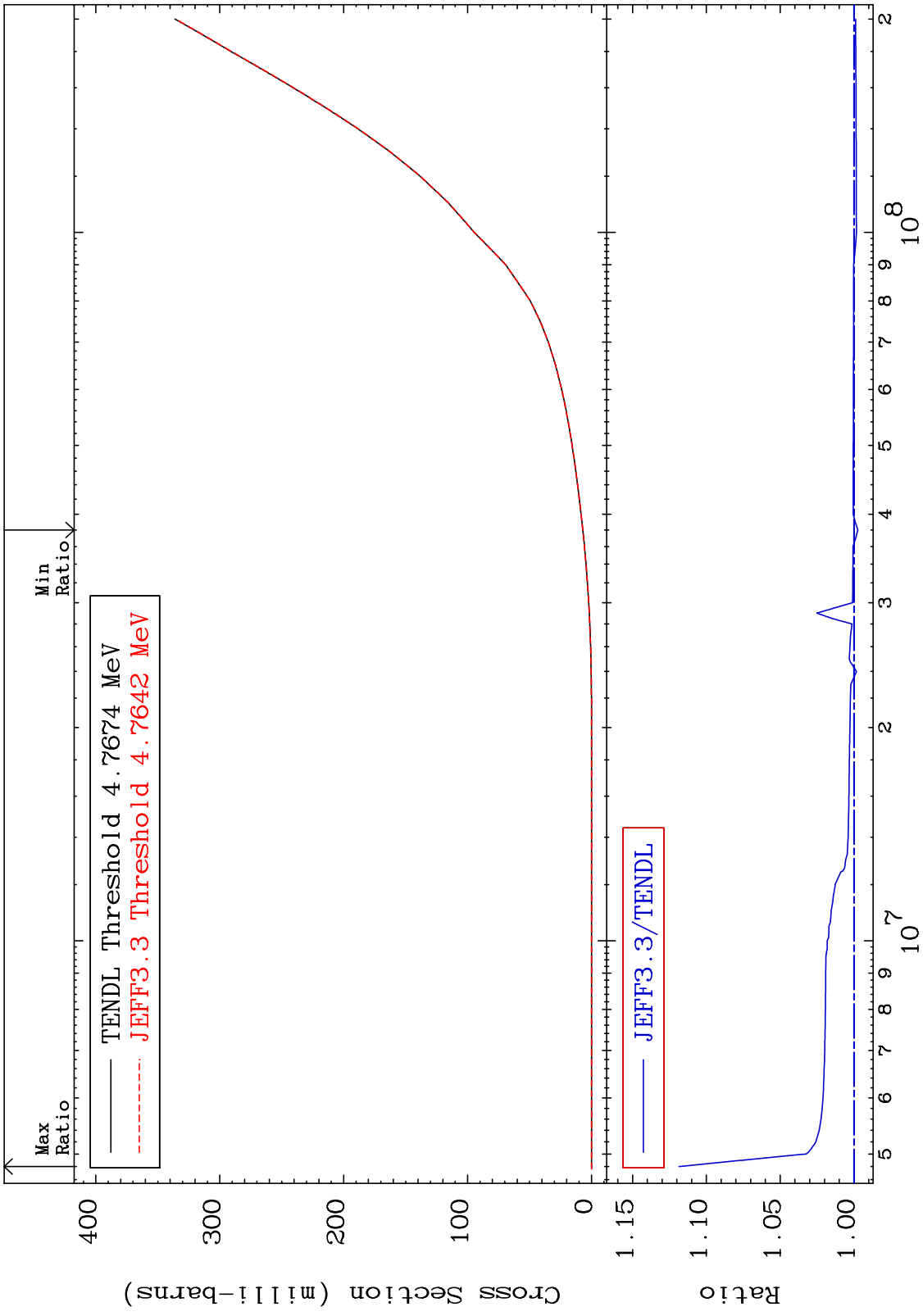


64

Incident Energy (eV)

60-Nd-142

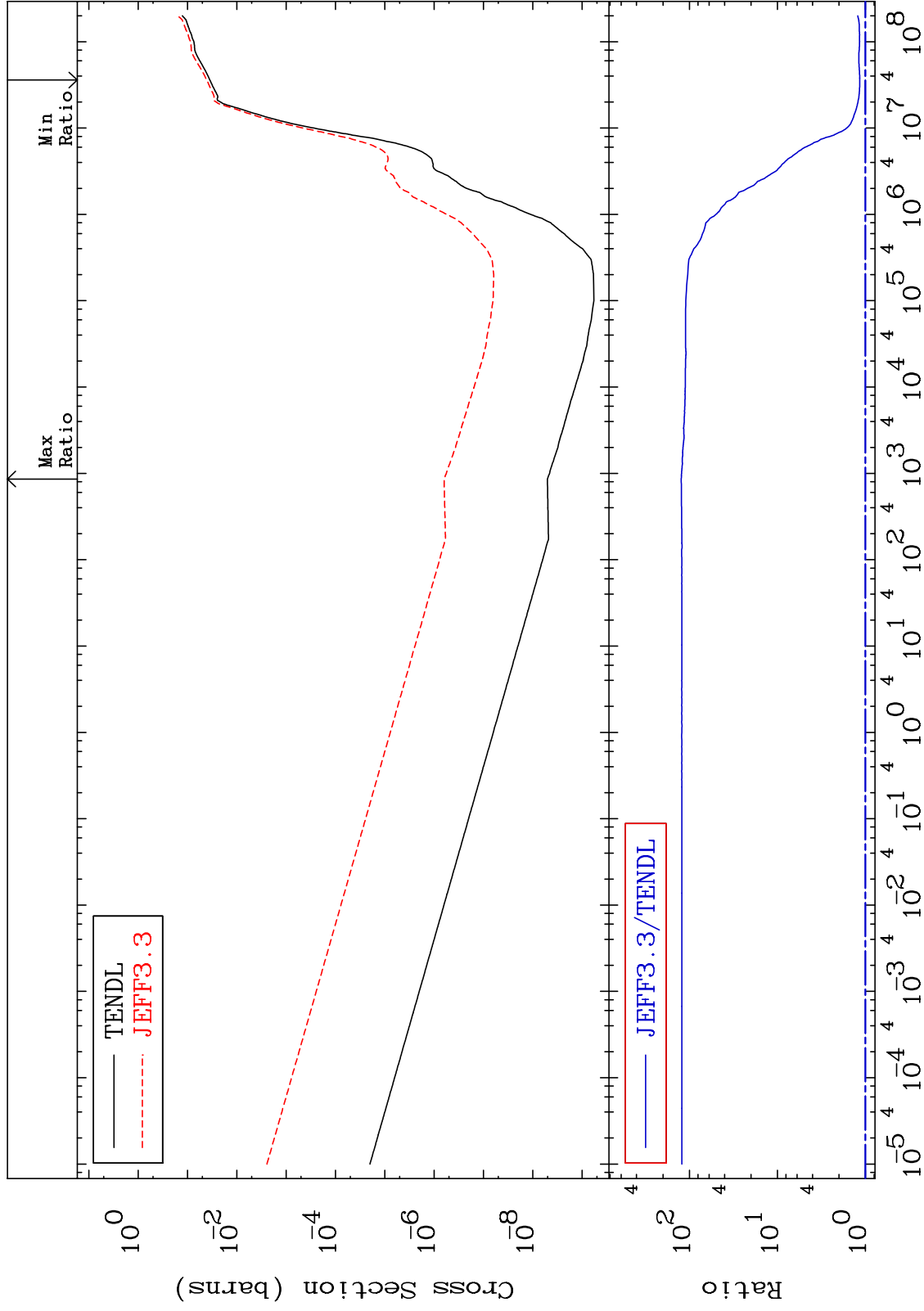
MAT 6025 He-3 Production Cross Section 60-Nd-142  
-0.261 To 11.85 %



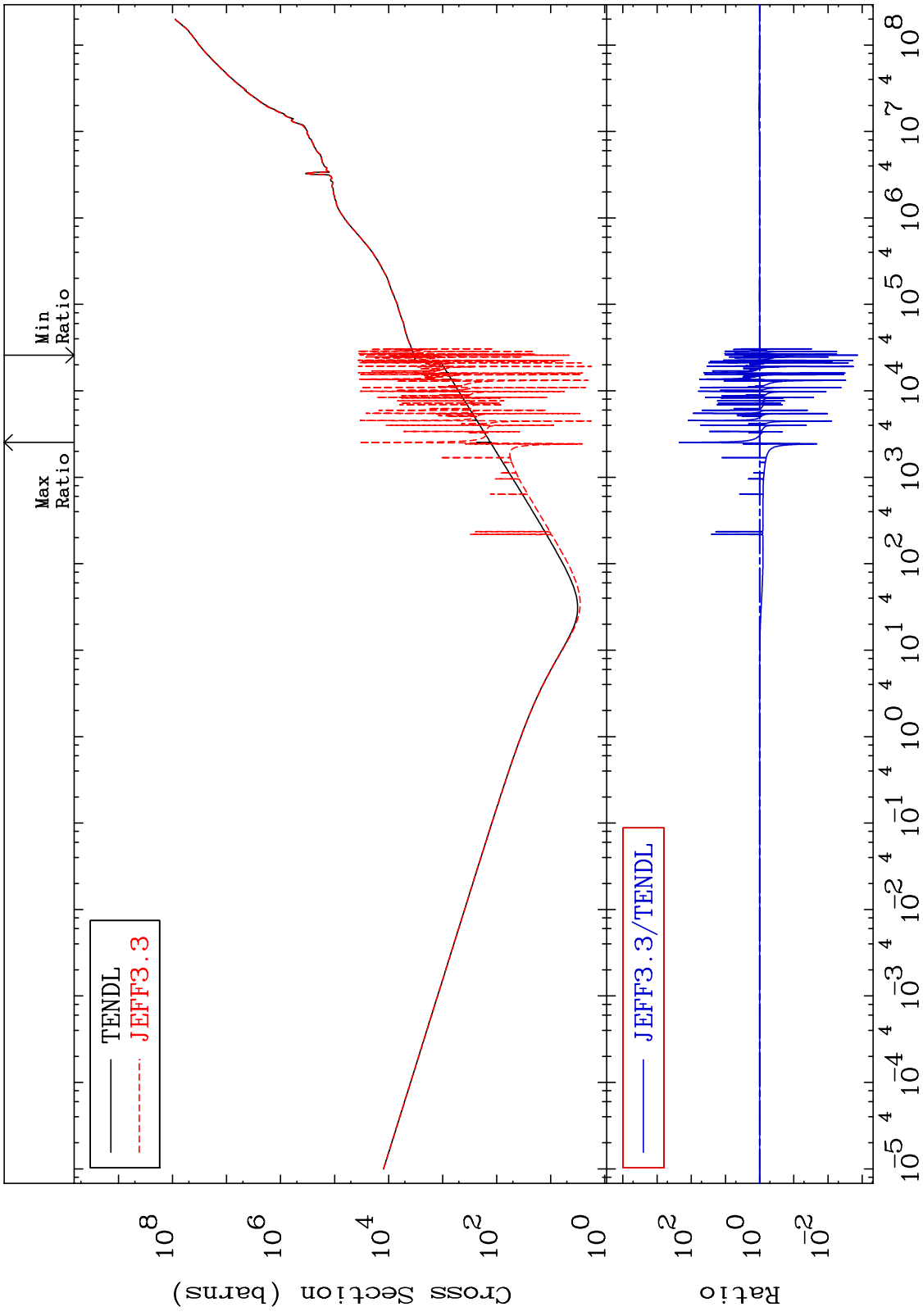
MAT 6025

He-4 Production  
Cross Section

60-Nd-142  
16.17 To 9999. %



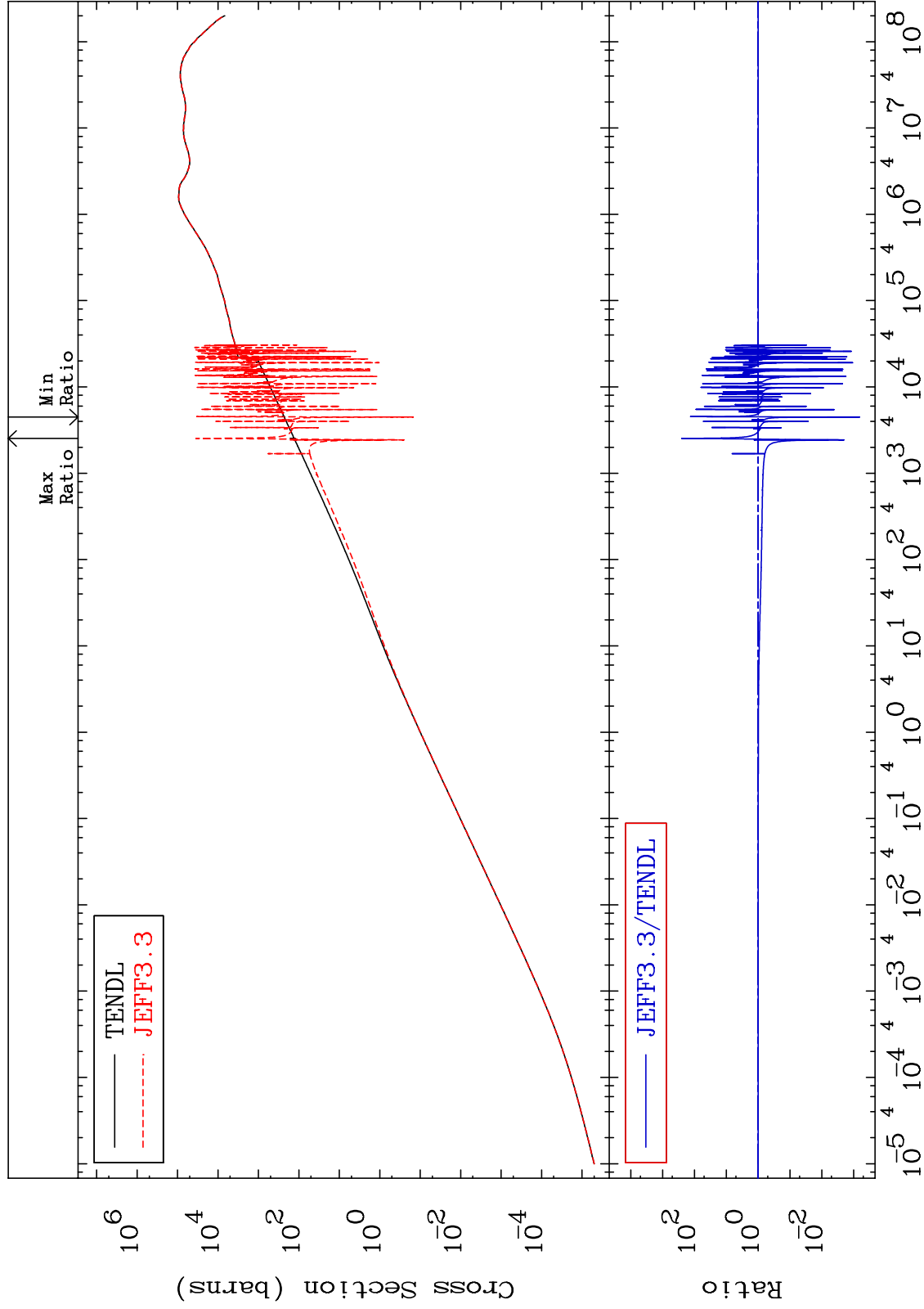
MAT 6025      Kerma total (eV-barns)      60-Nd-142  
 Cross Section      -99.87 To 9999. %



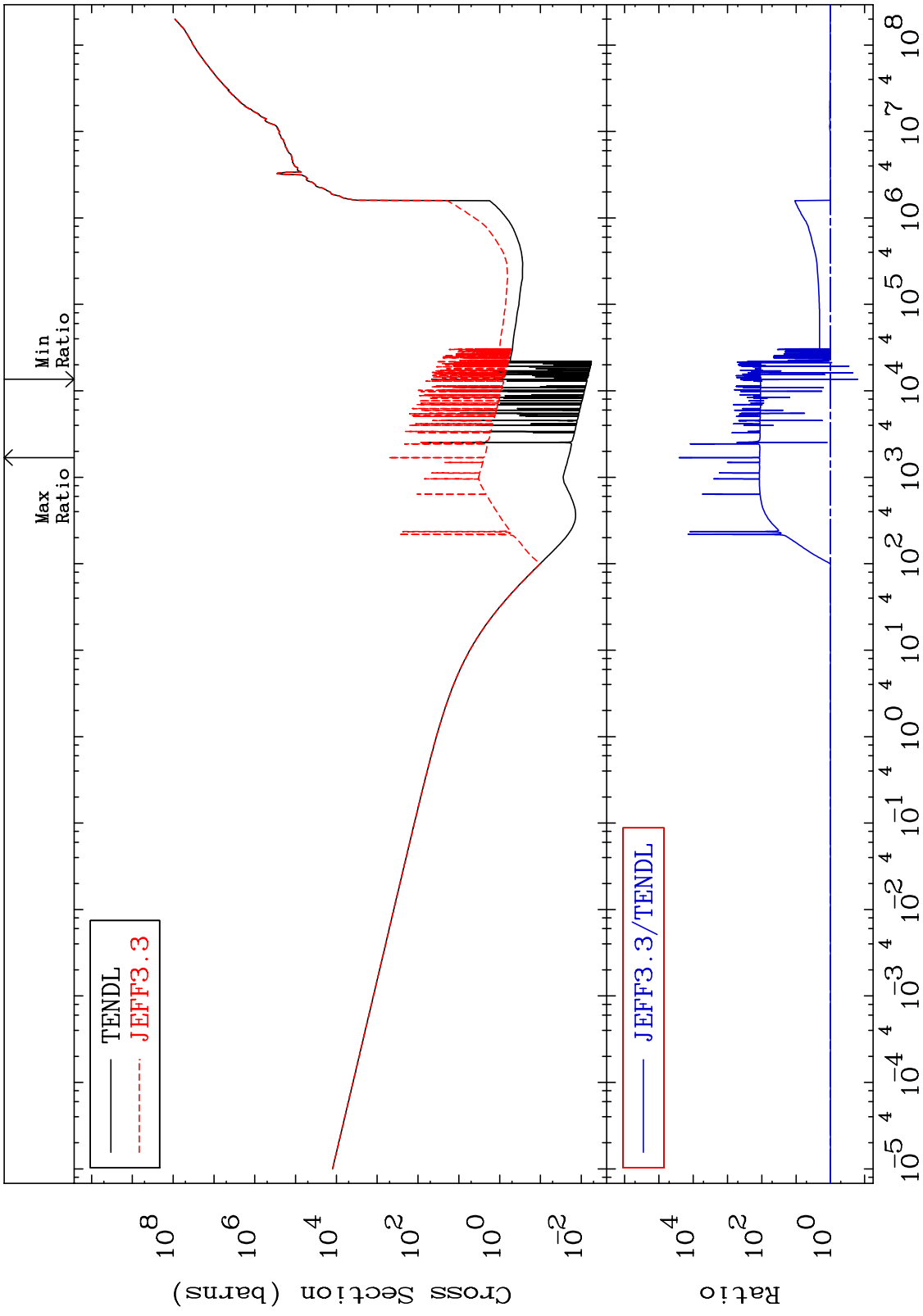
MAT 6025

Kerma elastic  
Cross Section

60-Nd-142  
-99.94 To 9999. %



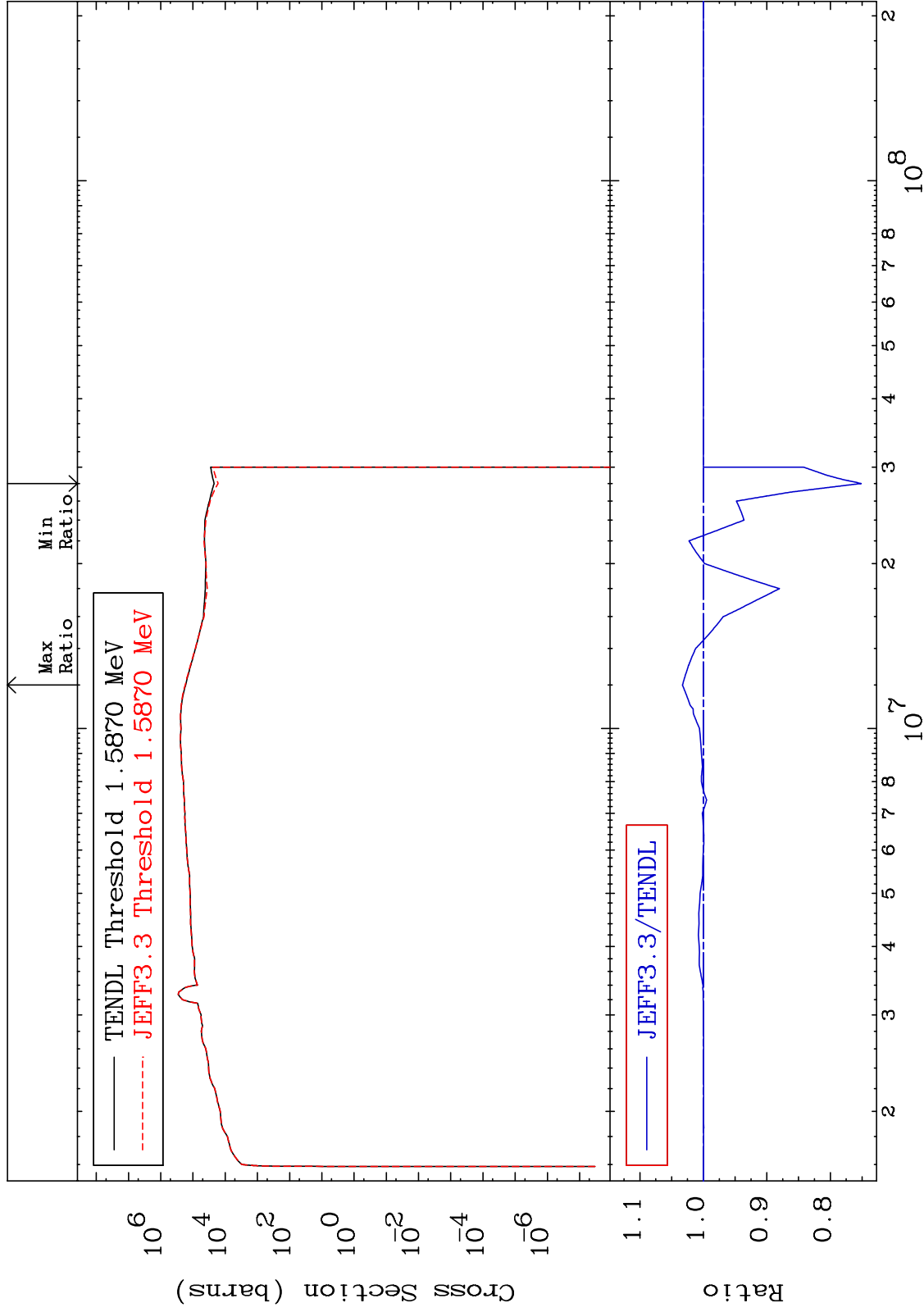
MAT 6025      Kerma non-elastic (all but mt2)      60-Nd-142  
 -84.19 To 9999. %  
 Cross Section



MAT 6025

Kerma inelastic (mt51-91)  
Cross Section

60-Nd-142  
-24.88 To 3.295 %



70

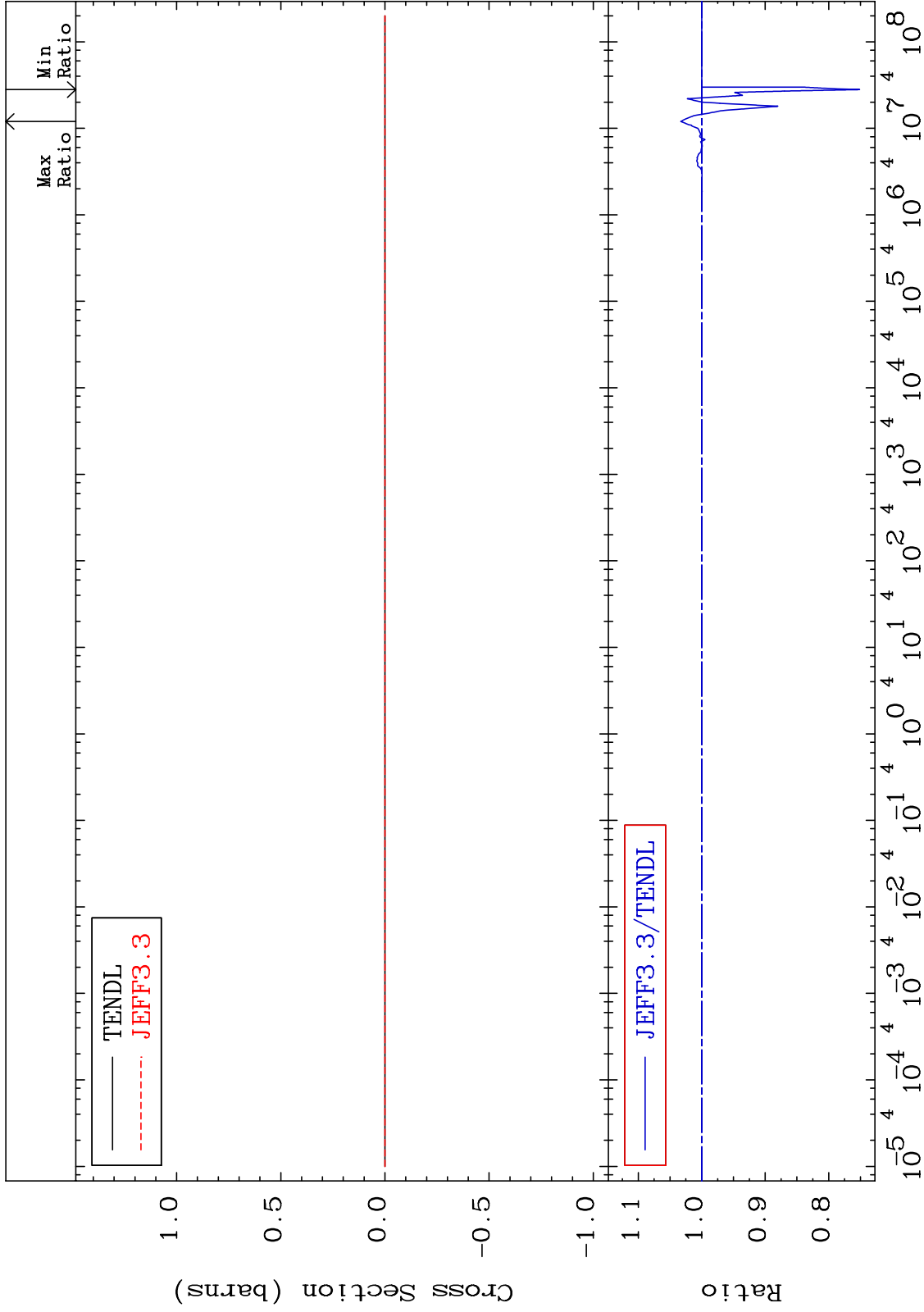
Incident Energy (eV)

60-Nd-142

MAT 6025

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

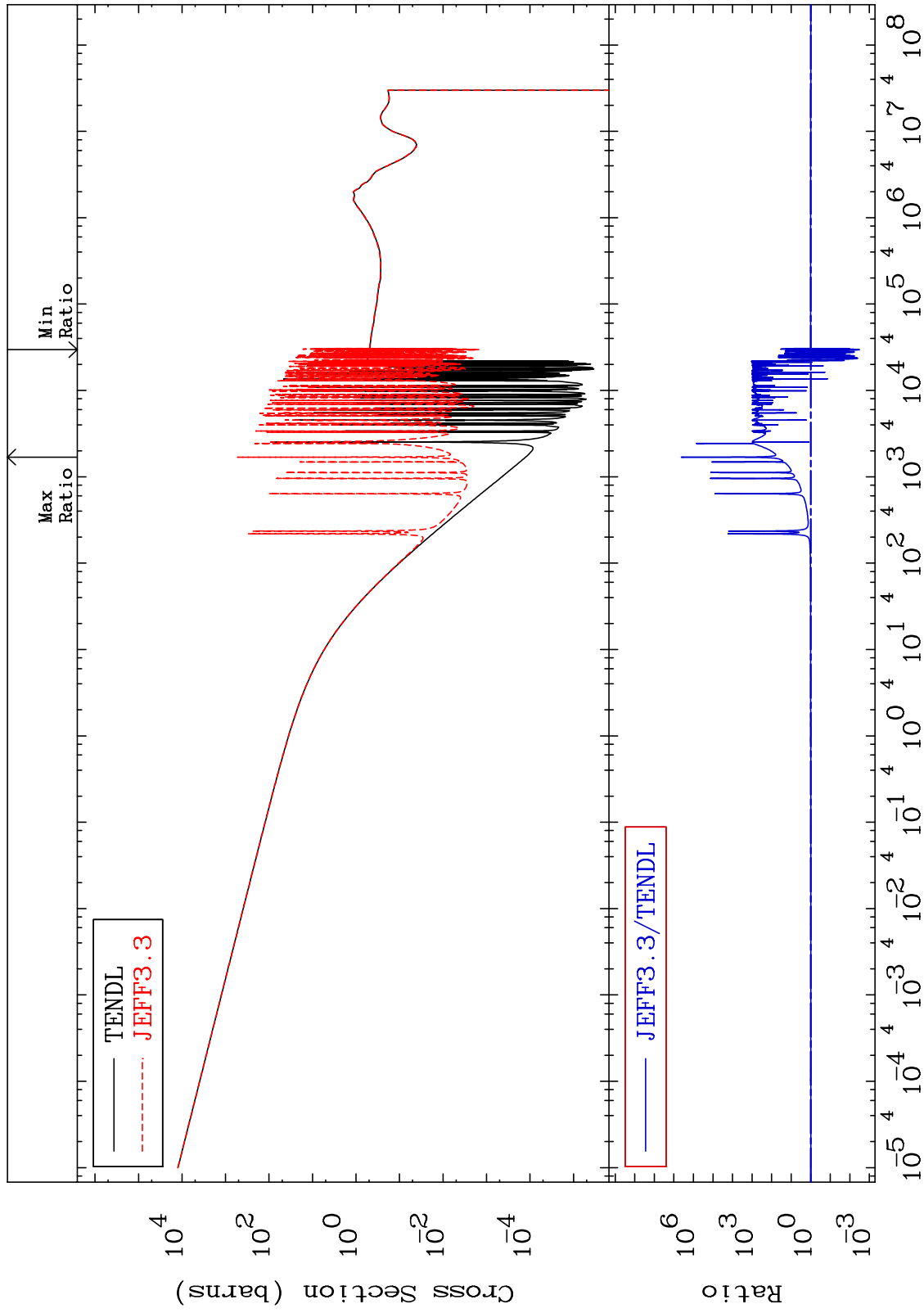
60-Nd-142  
-24.88 To 3.295 %



MAT 6025

Kerma capture (mt102)  
Cross Section

60-Nd-142  
-99.69 To 9999. %



72

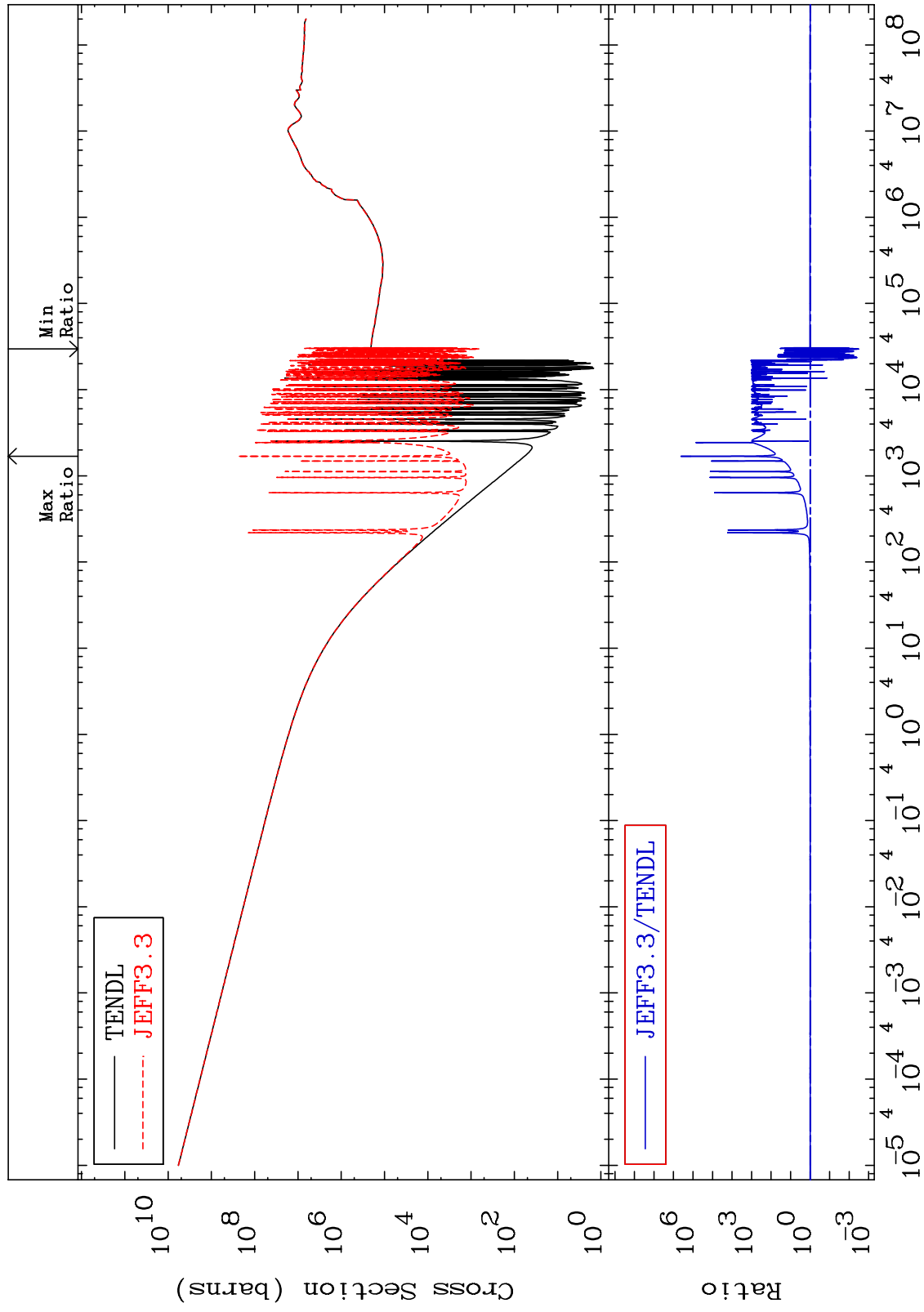
Incident Energy (eV)

60-Nd-142

MAT 6025

Total photon (eV-barns)  
Cross Section

60-Nd-142  
-99.69 To 9999. %

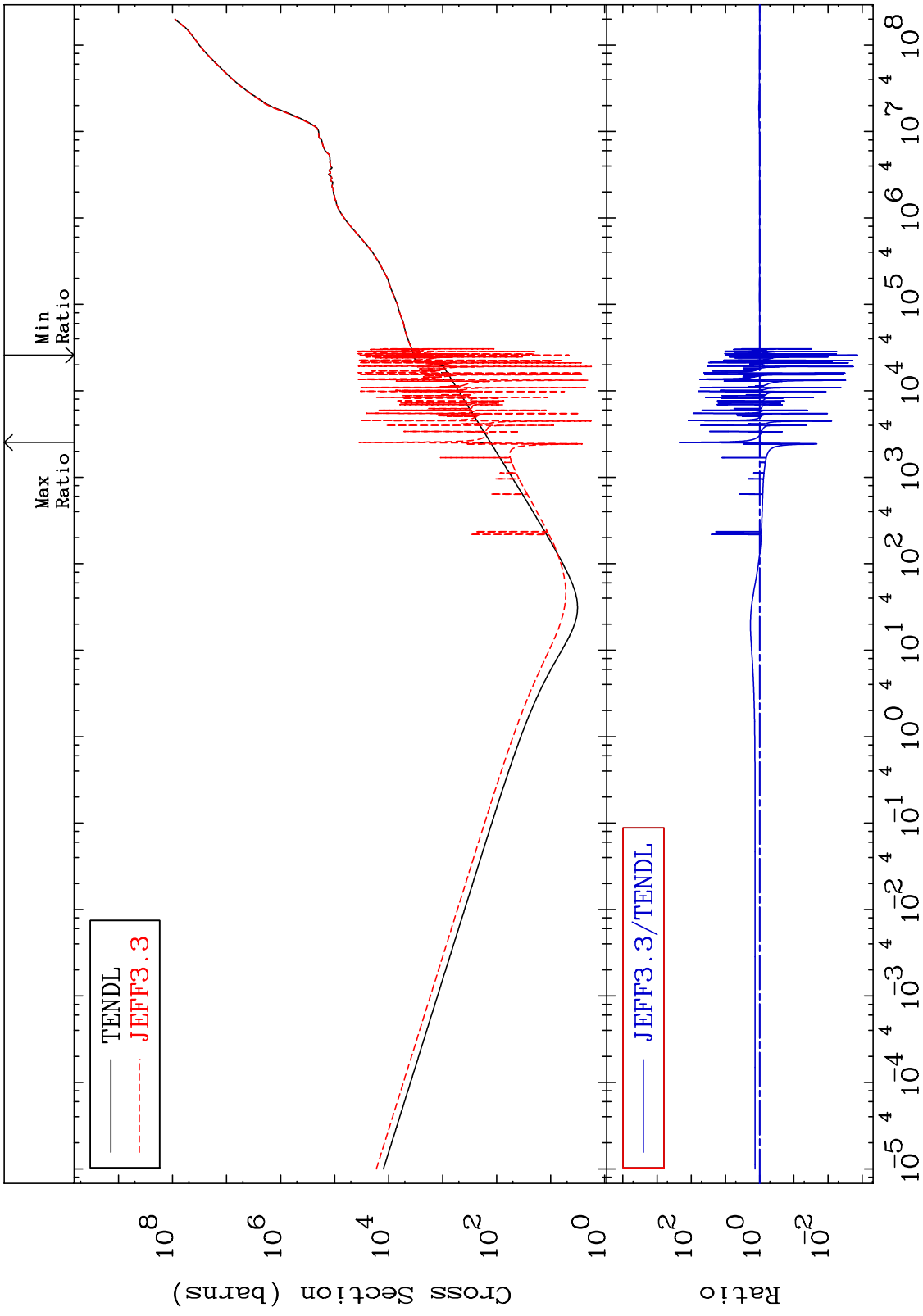


73

Incident Energy (eV)

60-Nd-142

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

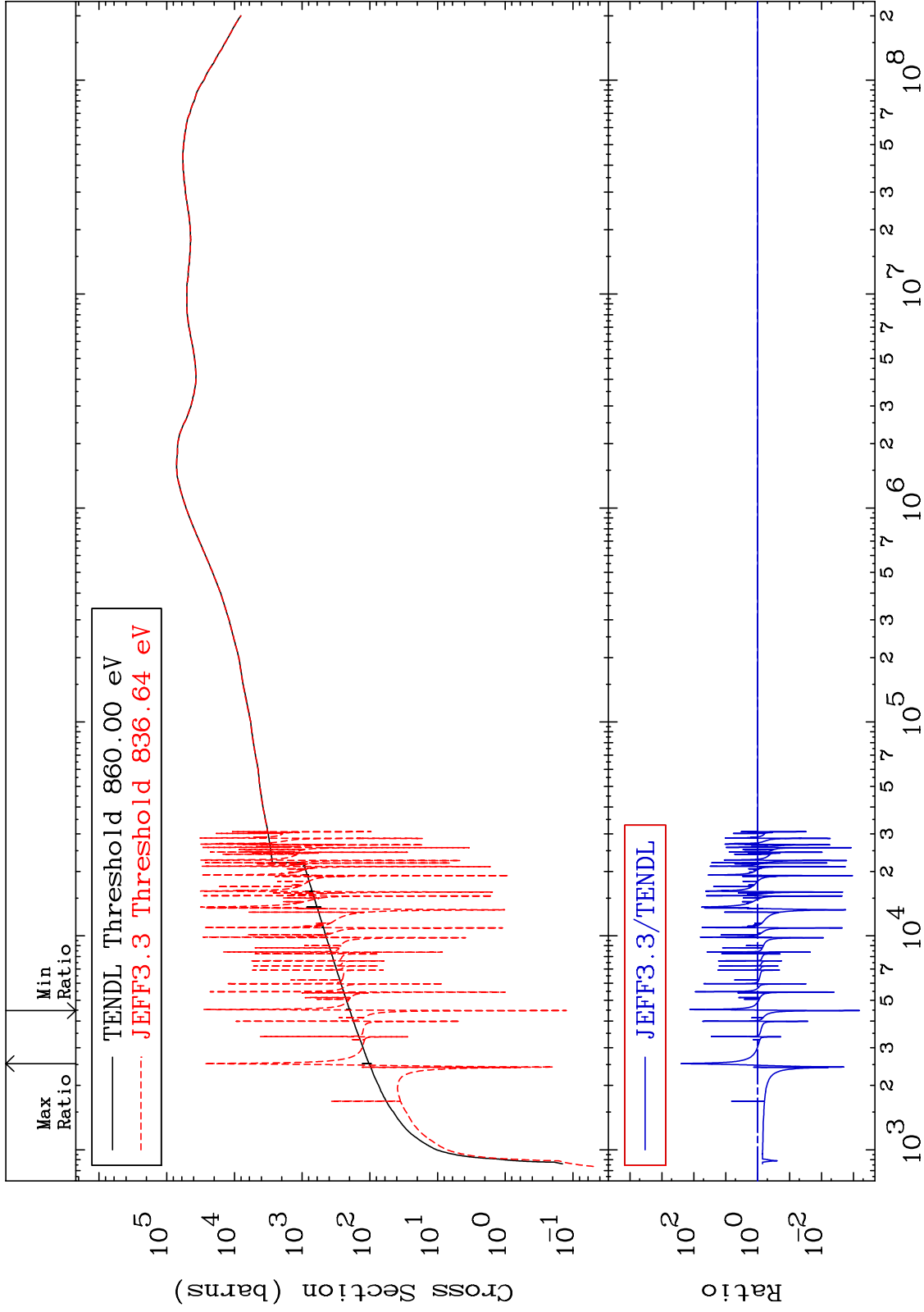




MAT 6025

Dpa elastic (mt2)  
Cross Section

60-Nd-142  
-99.94 To 9999. %

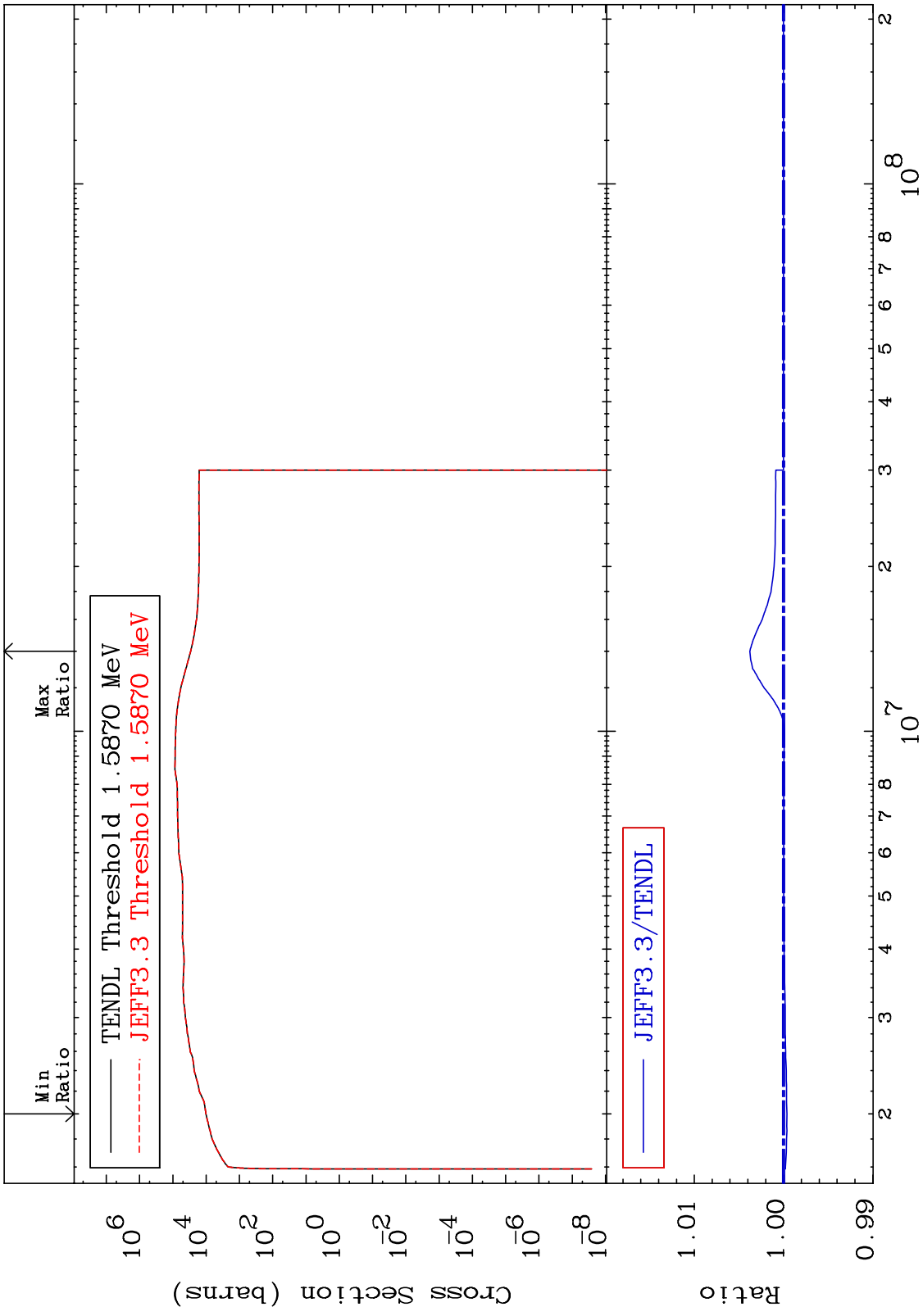


76

Incident Energy (eV)

60-Nd-142

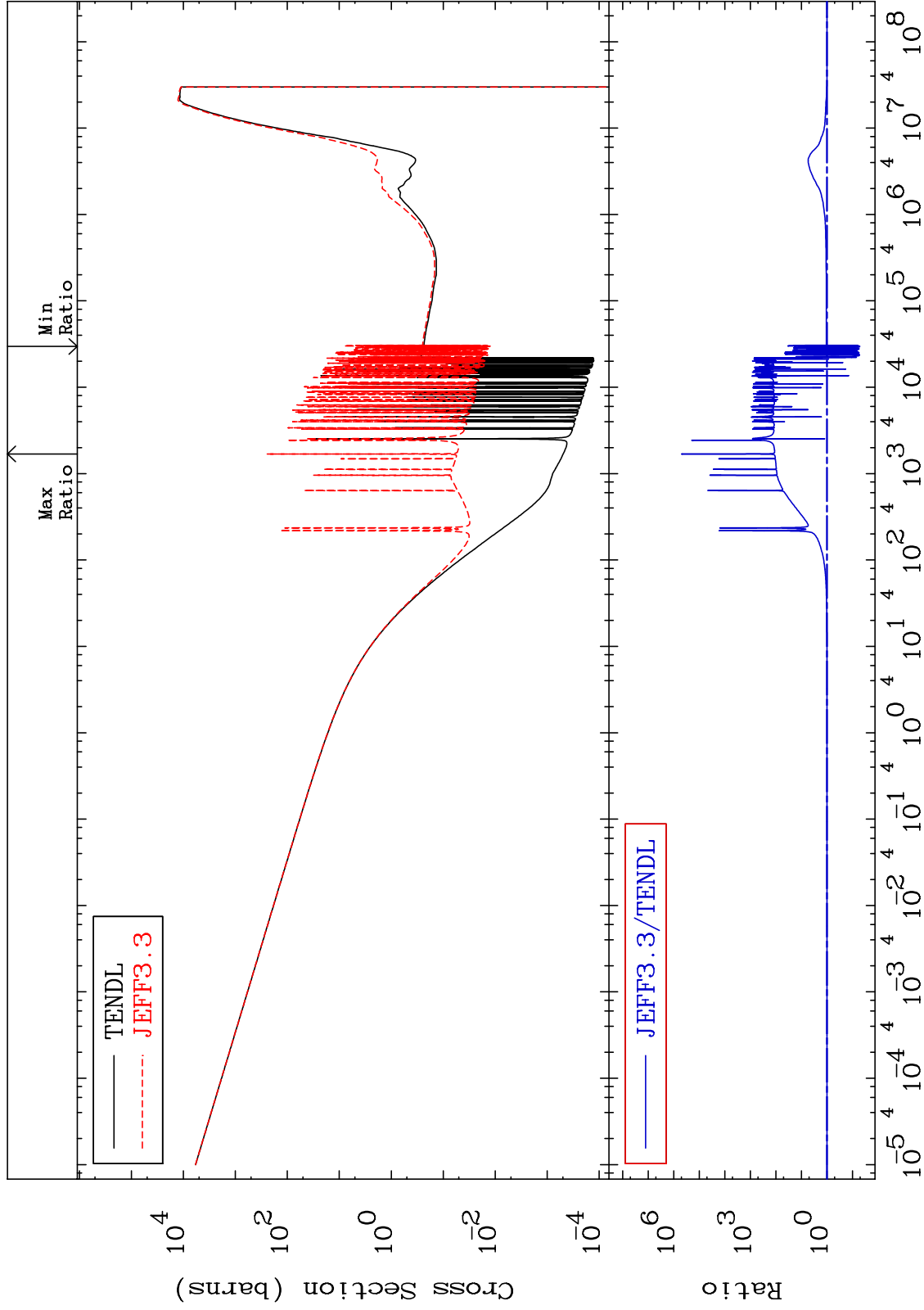
MAT 6025      Dpa inelastic (mt51-91)      60-Nd-142  
 Cross Section      -0.039 To 0.378 %



MAT 6025

Dpa disappearance (mt102 -120)  
Cross Section

60-Nd-142  
-94.77 To 9999. %

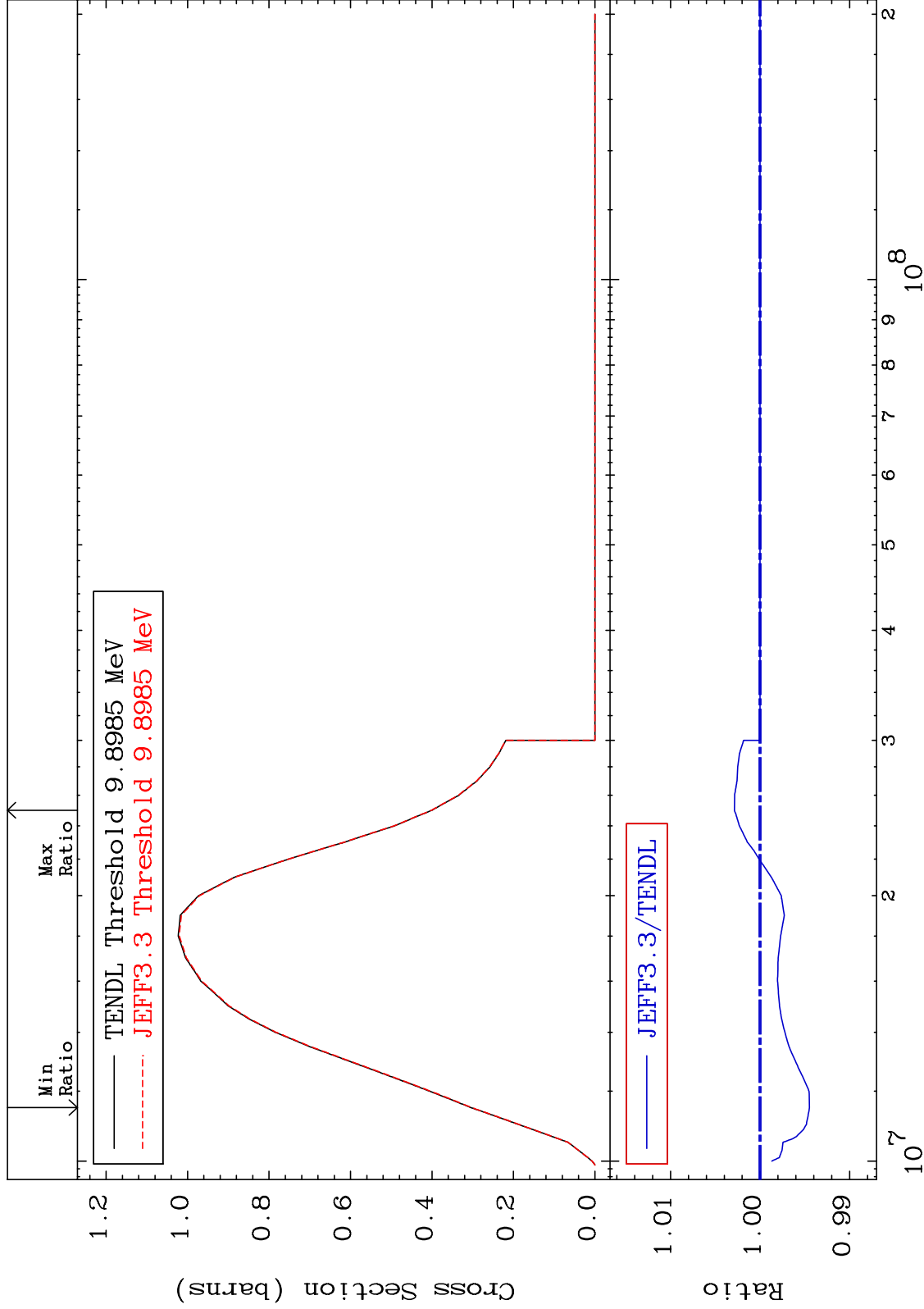


MAT 6025

(n,2n):60-Nd-141g

60-Nd-142

Radionuclide Production Cross Section -0.551 To 0.287 %

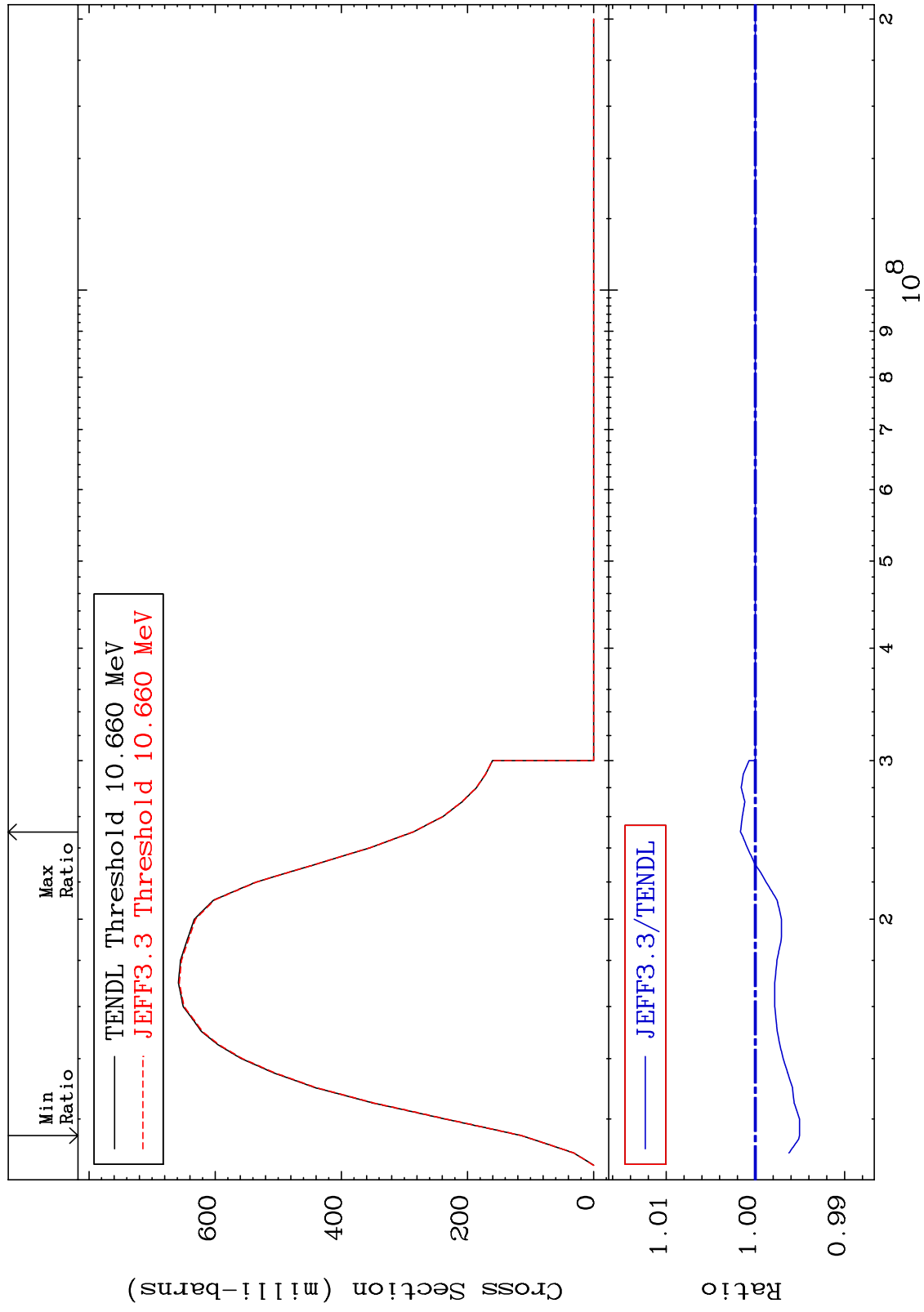


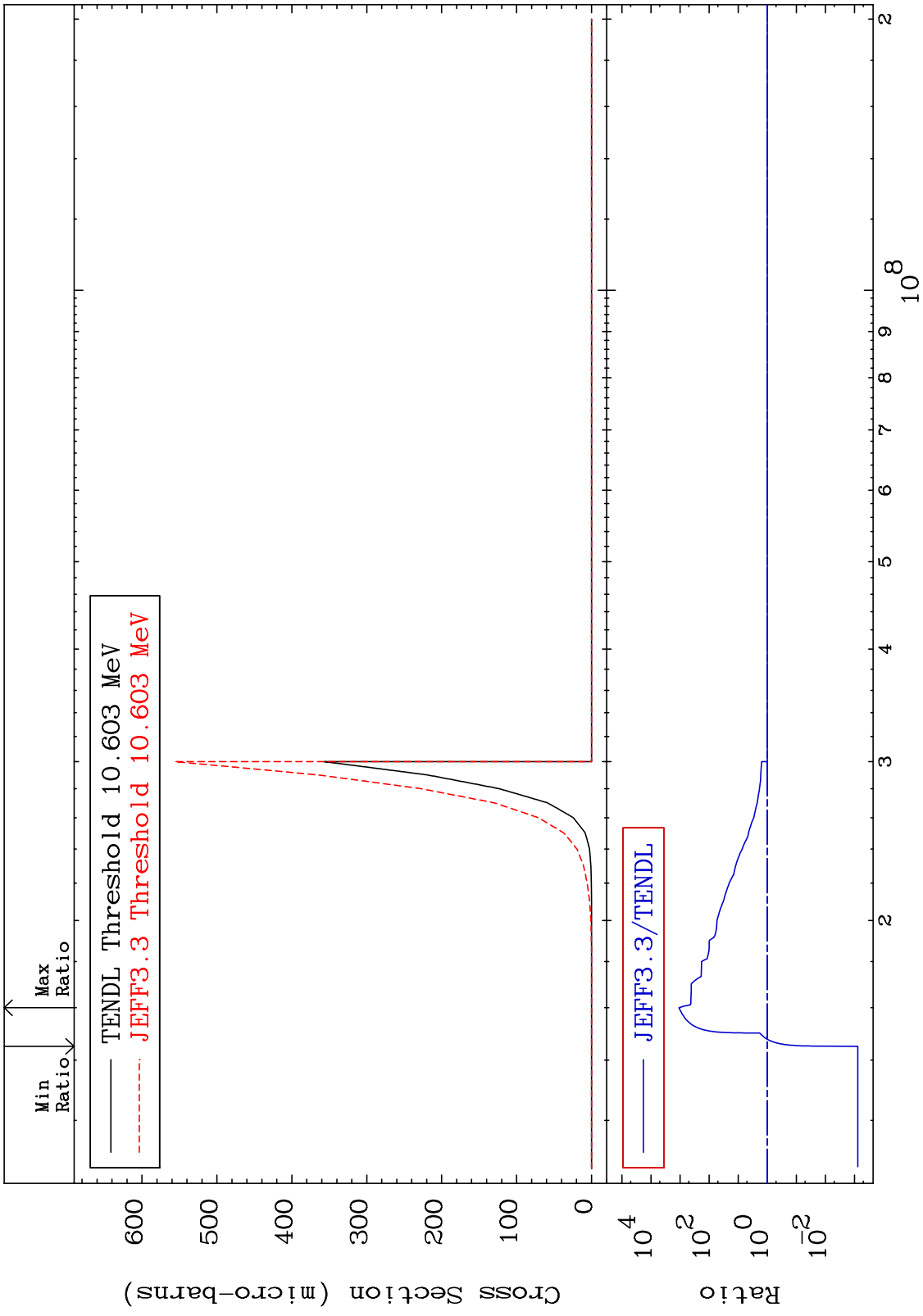
79

Incident Energy (eV)

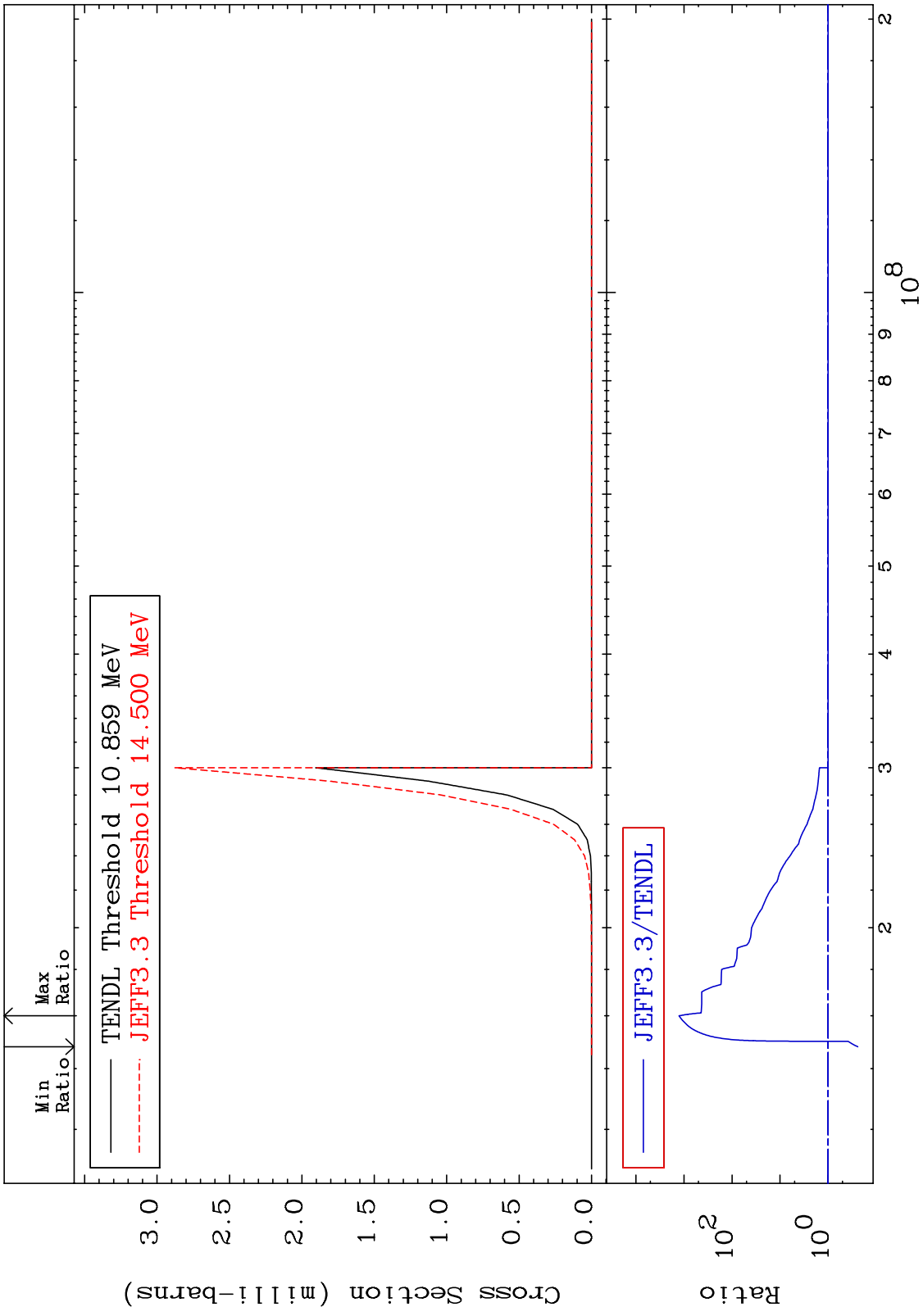
60-Nd-142

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

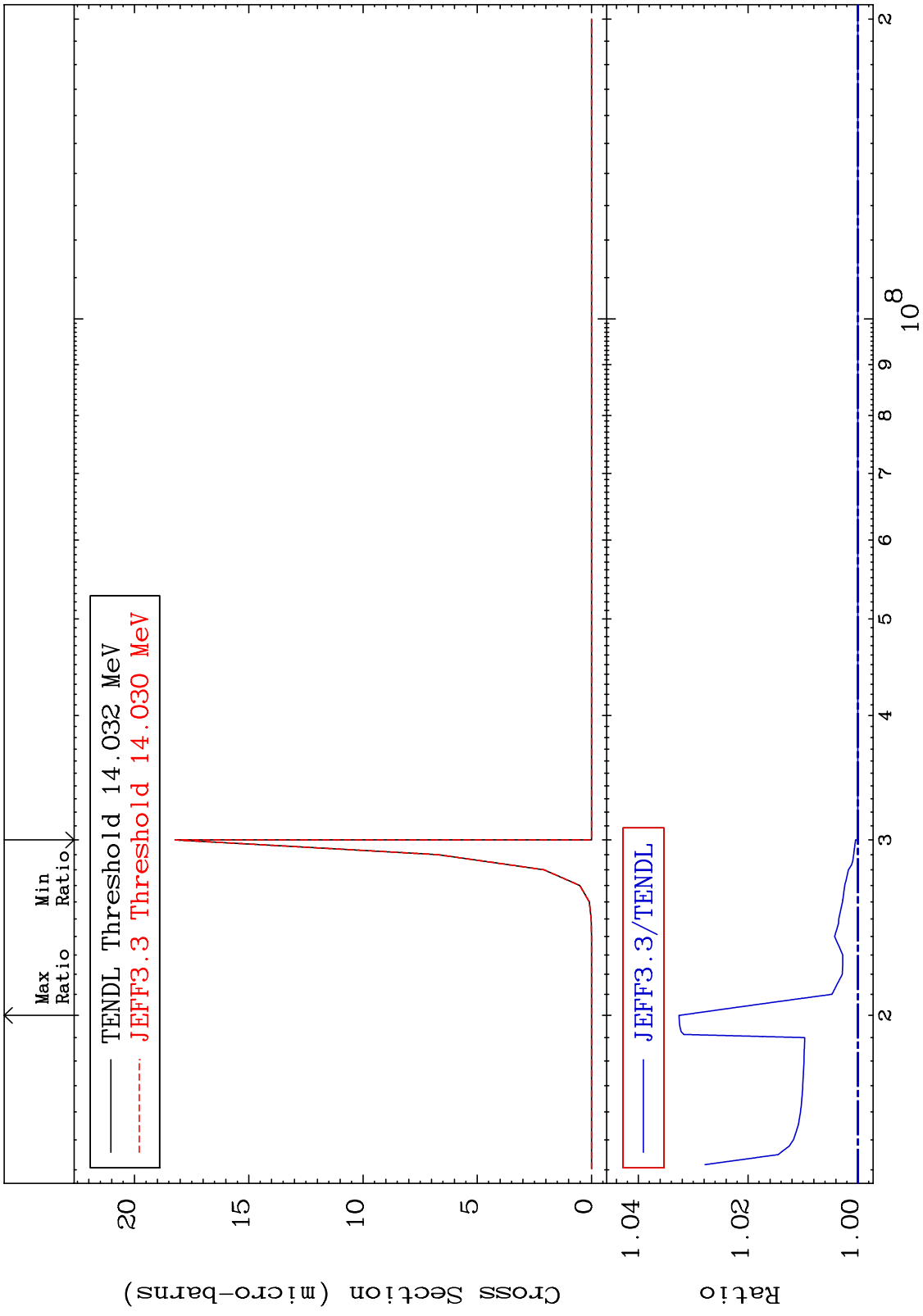




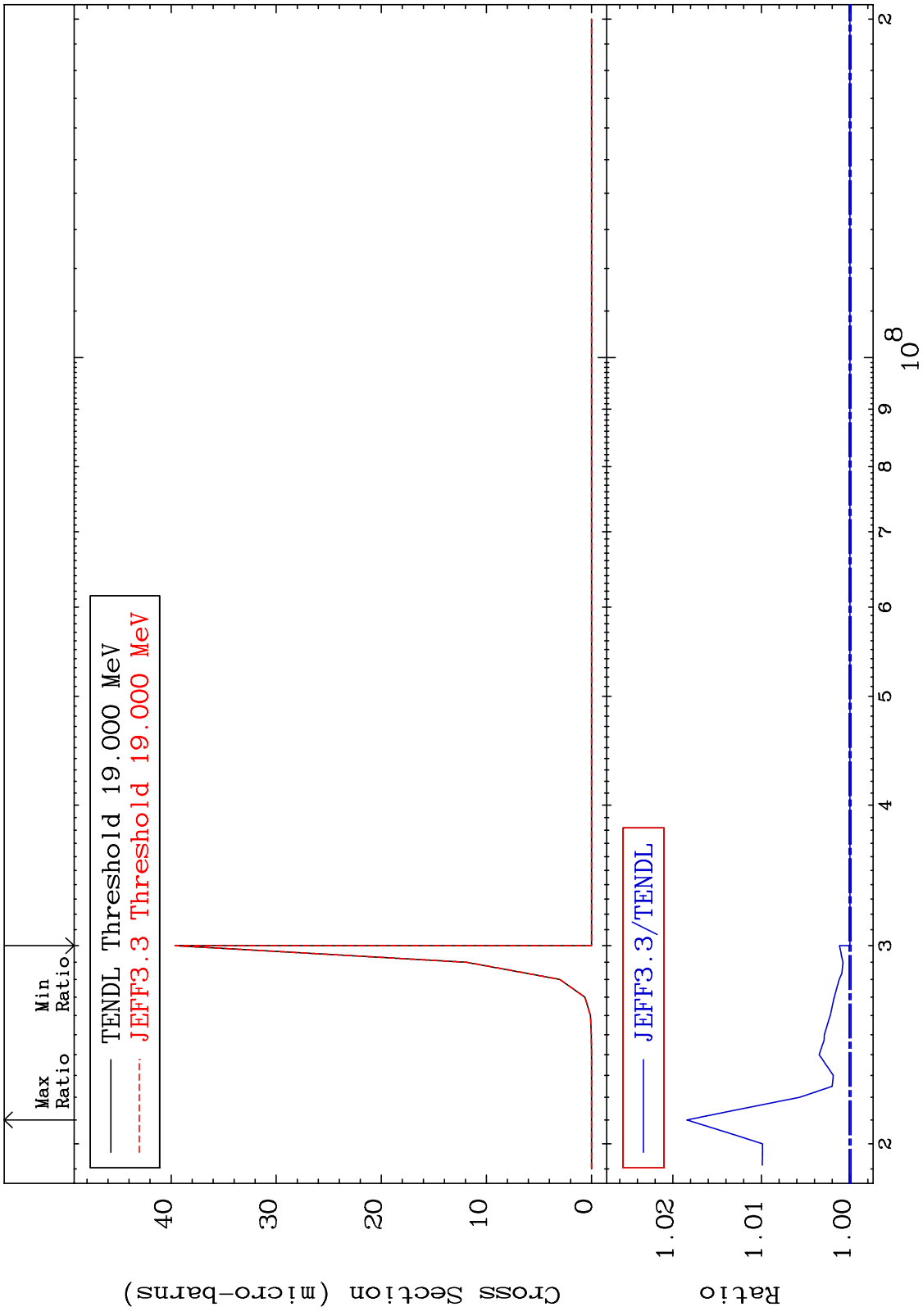
MAT 6025 (n,2n)  $\alpha$ :58-Ce-137m2 60-Nd-142  
 Radionuclide Production Cross Section -75.95 To 9999. %



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 %

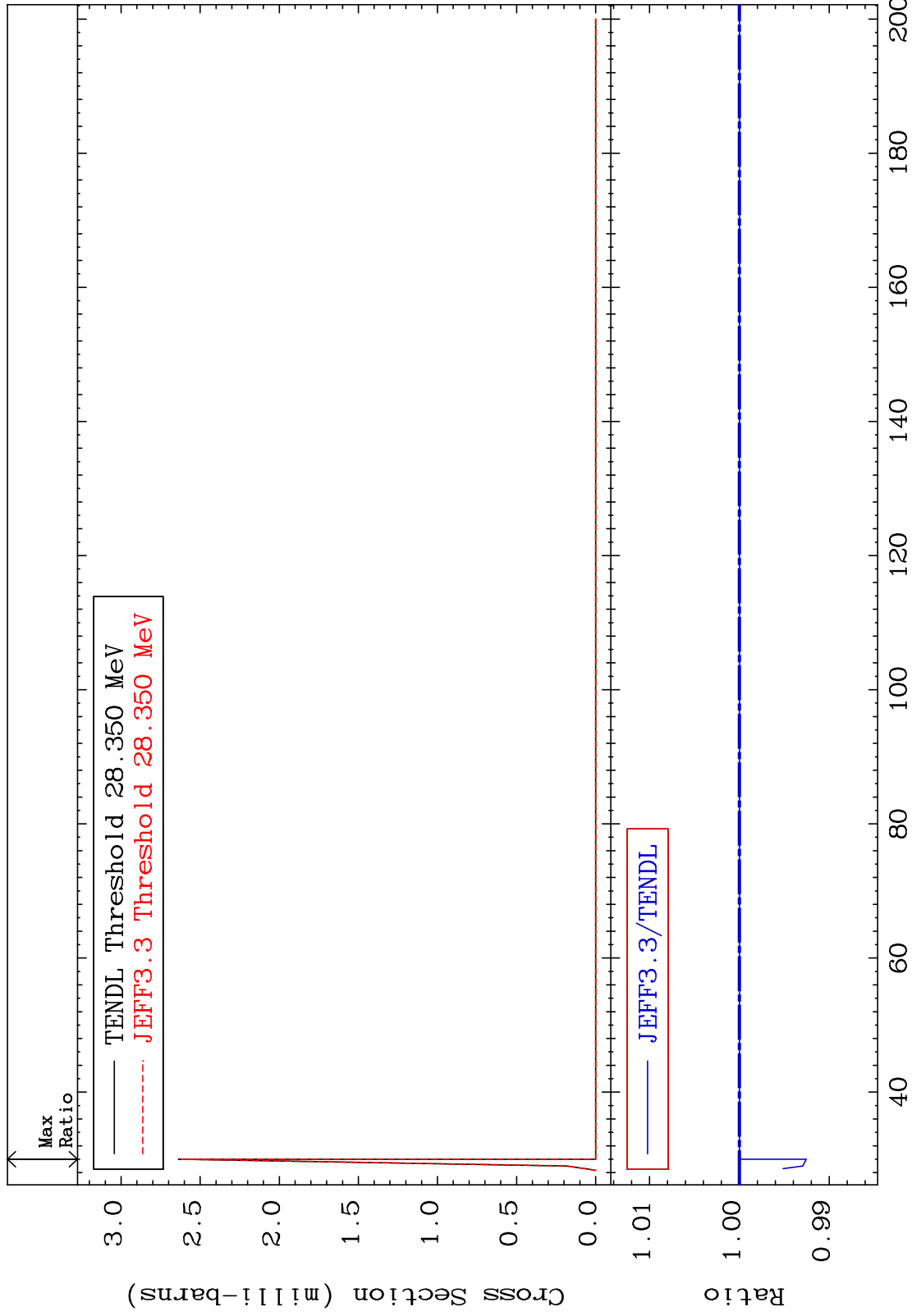


MAT 6025

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

60-Nd-142

Radionuclide Production Cross Section -0.744 To 0.000 %



85

Incident Energy (MeV)

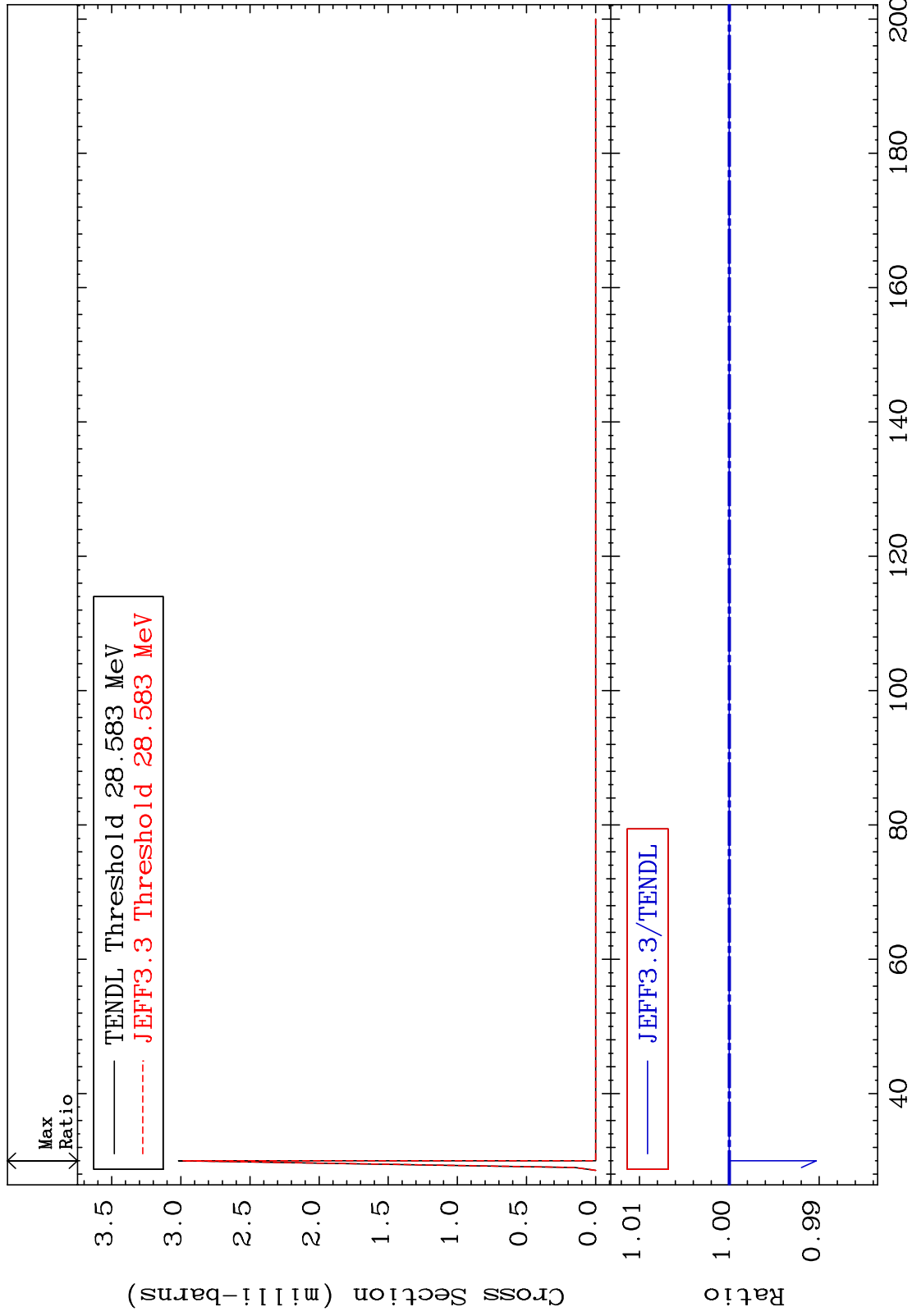
60-Nd-142

MAT 6025

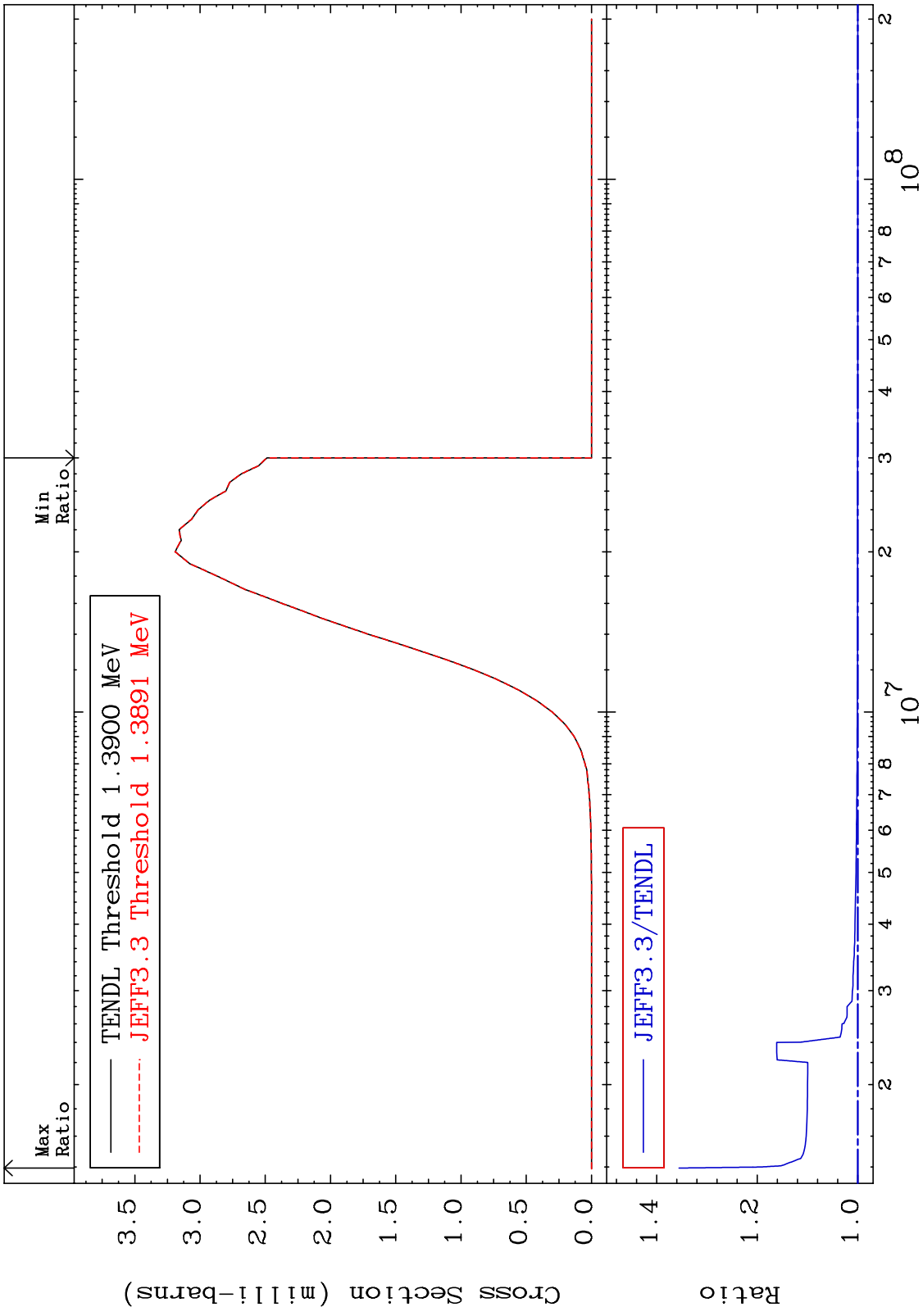
(n,4n):60-Nd-139m2

60-Nd-142

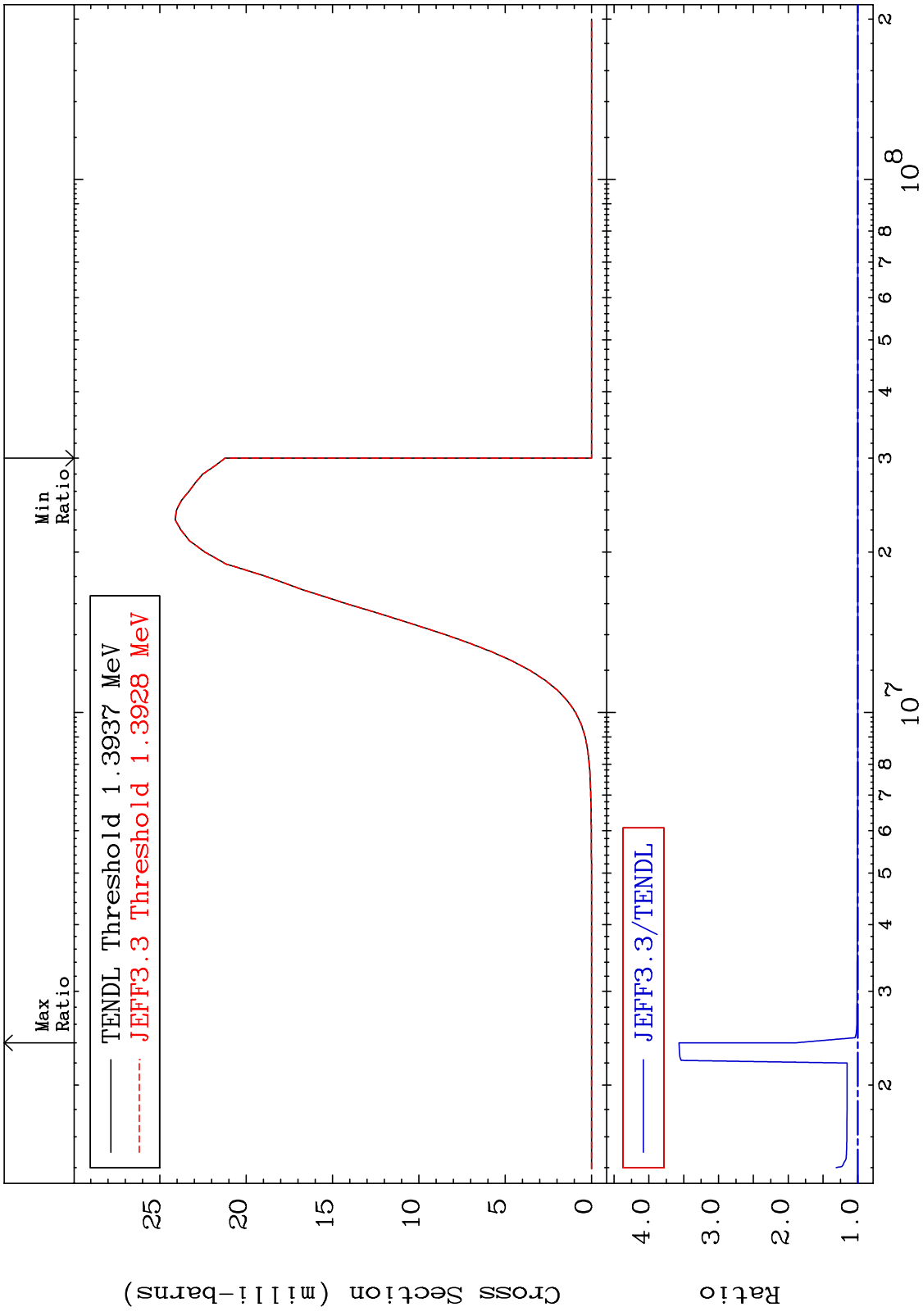
Radionuclide Production Cross Section -0.967 To 0.000 %



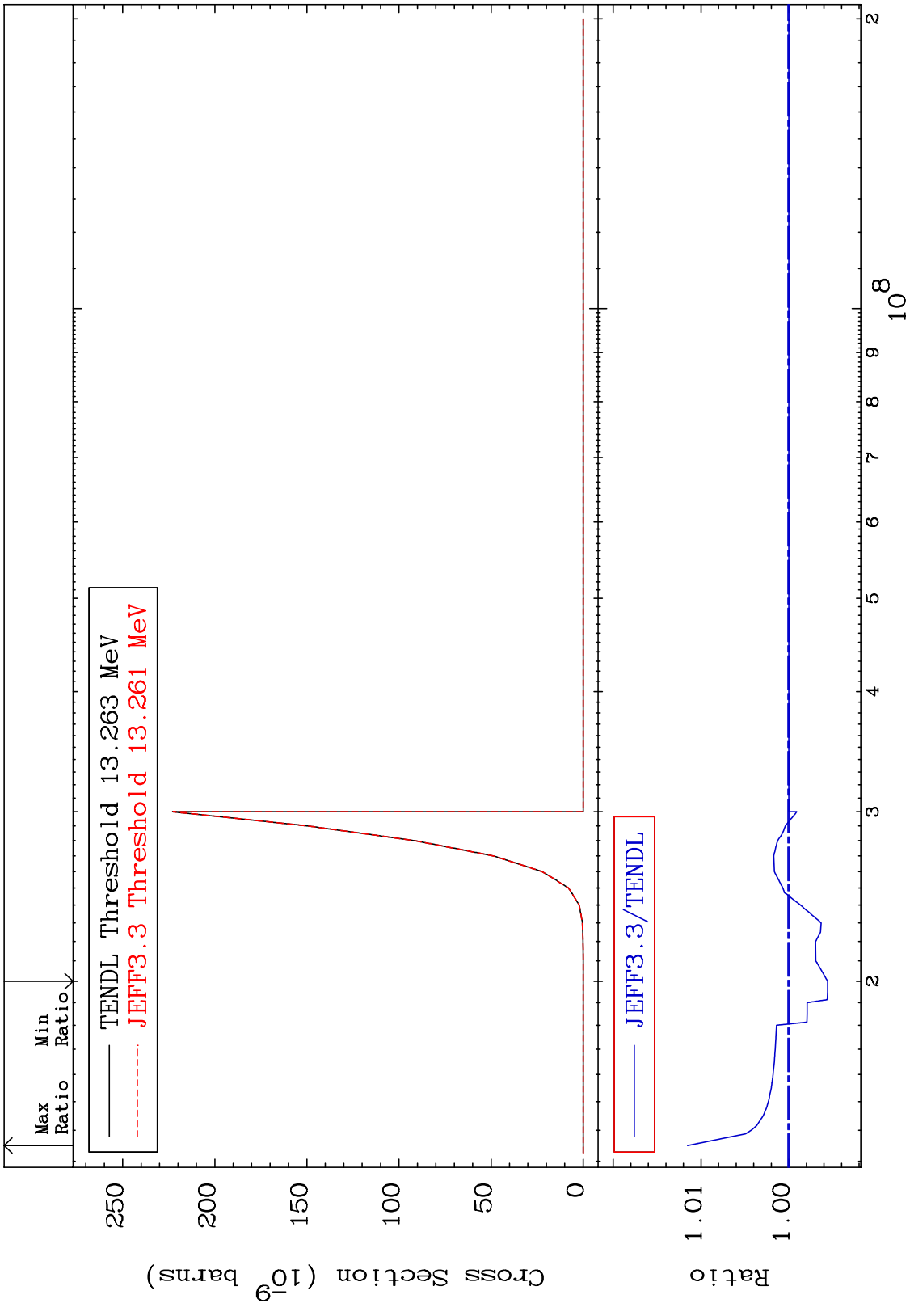
MAT 6025 (n,p):59-Pr-142g 60-Nd-142  
 Radionuclide Production Cross Section 0.000 To 35.55 %



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 %

