

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

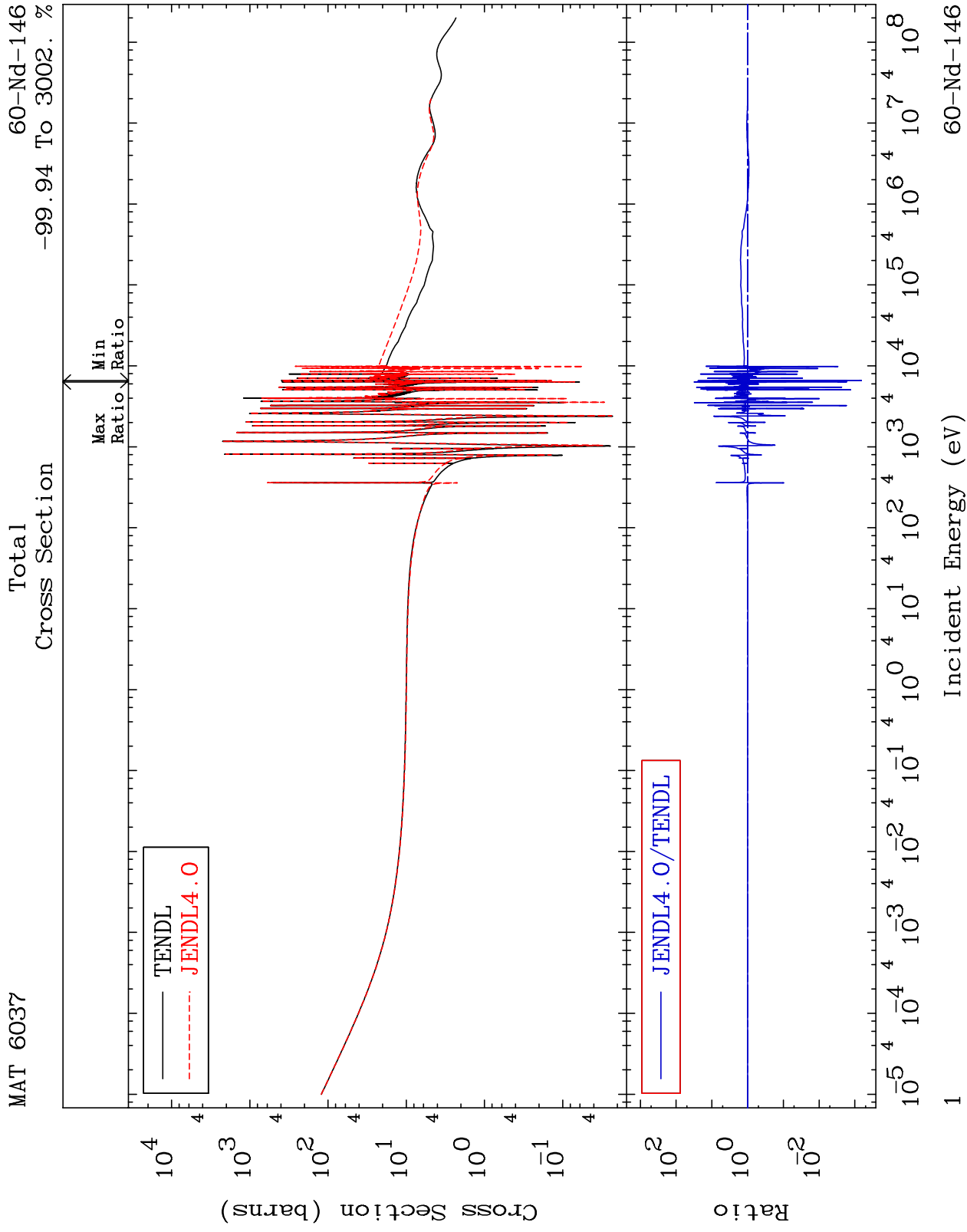
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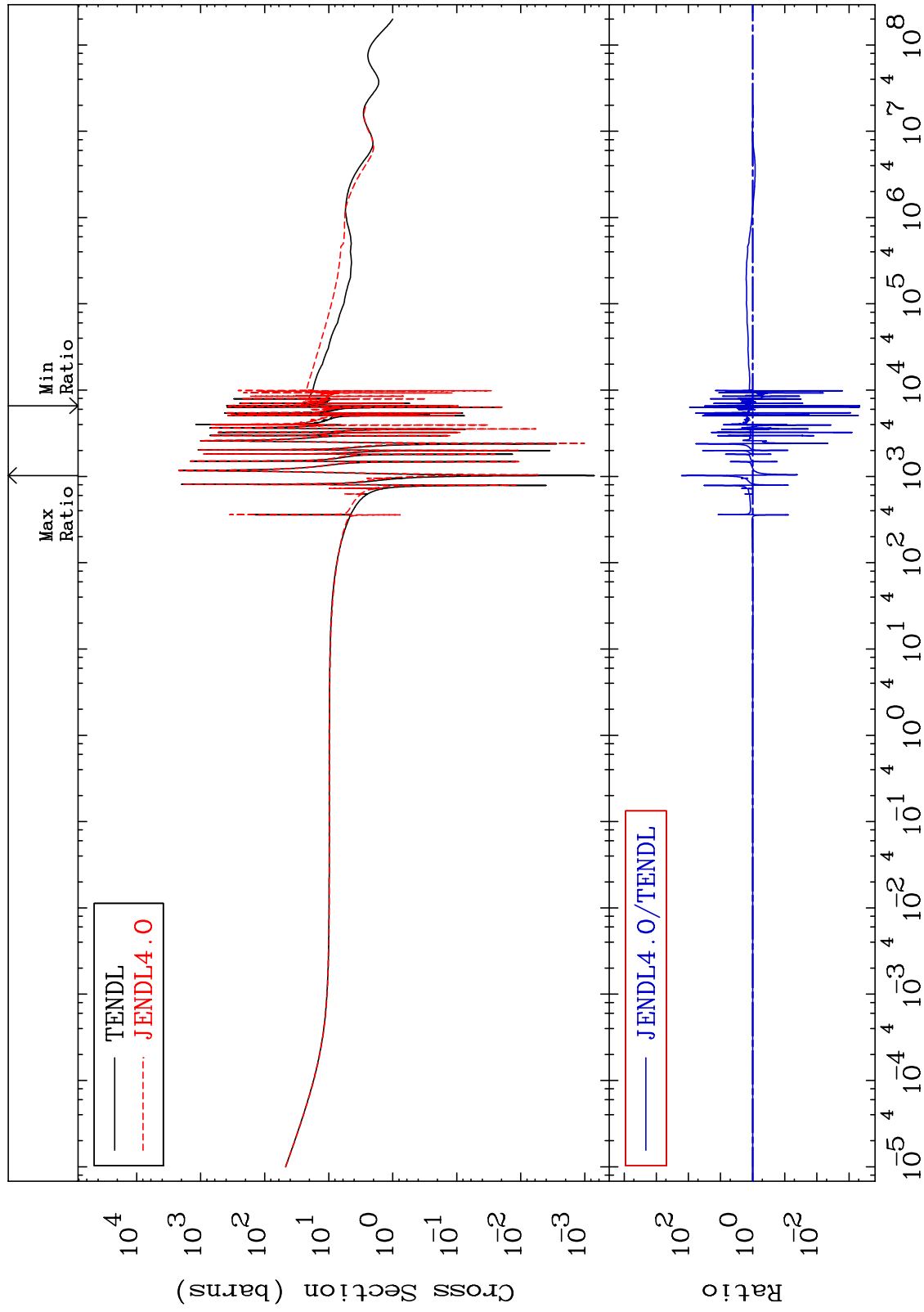
Press Mouse Button to Start



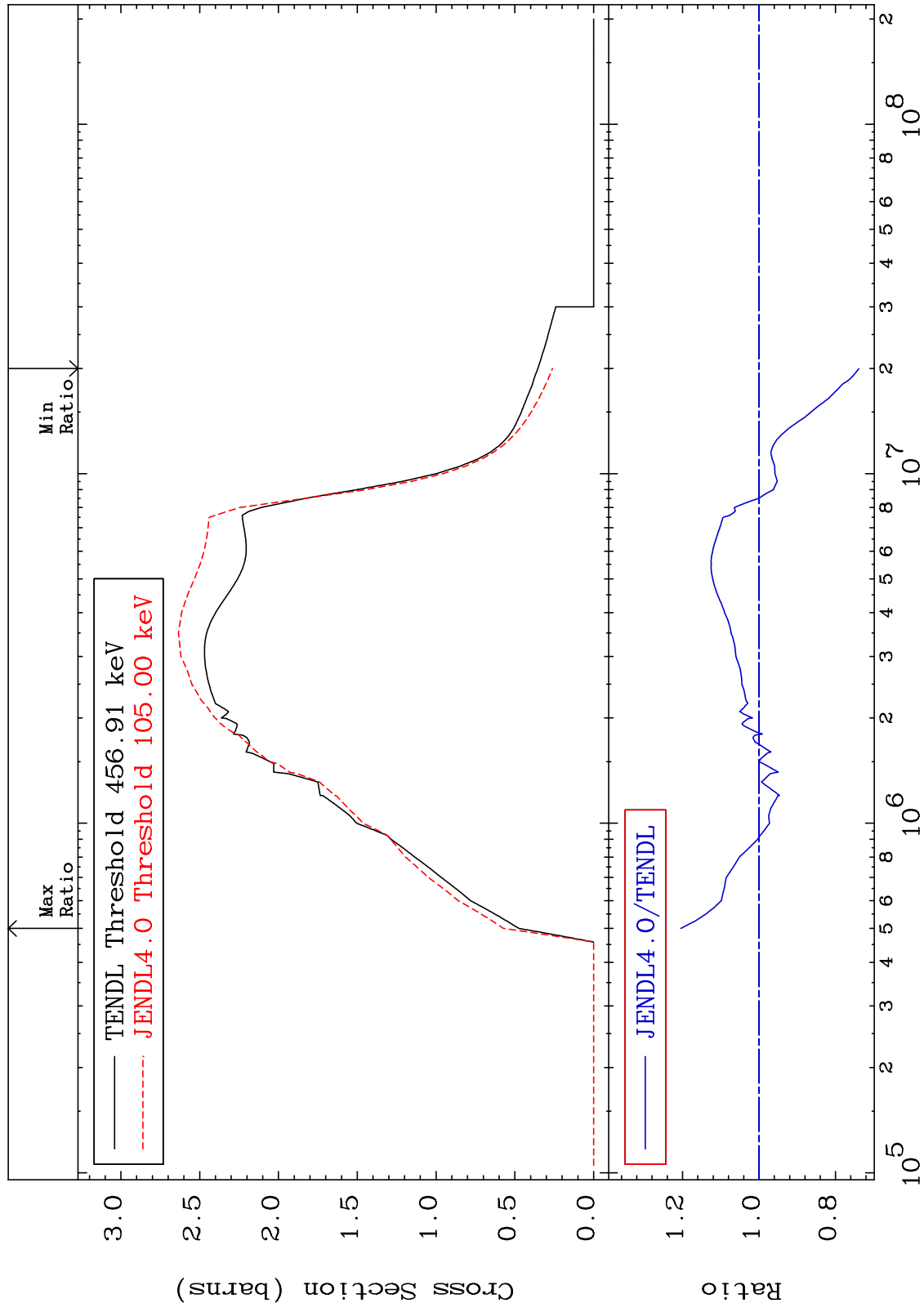
MAT 6037

Elastic
Cross Section

60-Nd-146
-99.95 To 9999. %

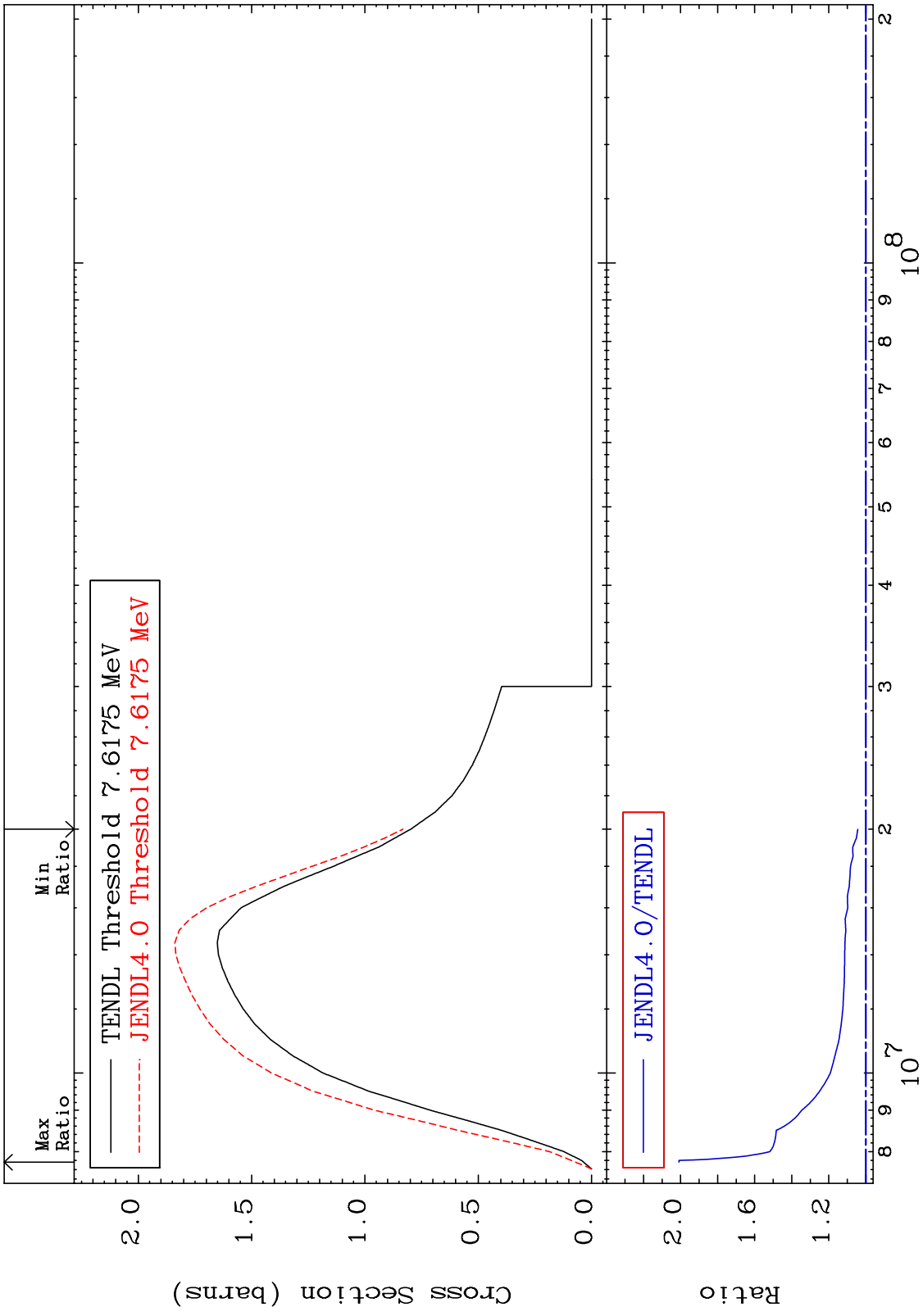


MAT 6037 Inelastic Cross Section 60-Nd-146 -26.17 To 20.45 %



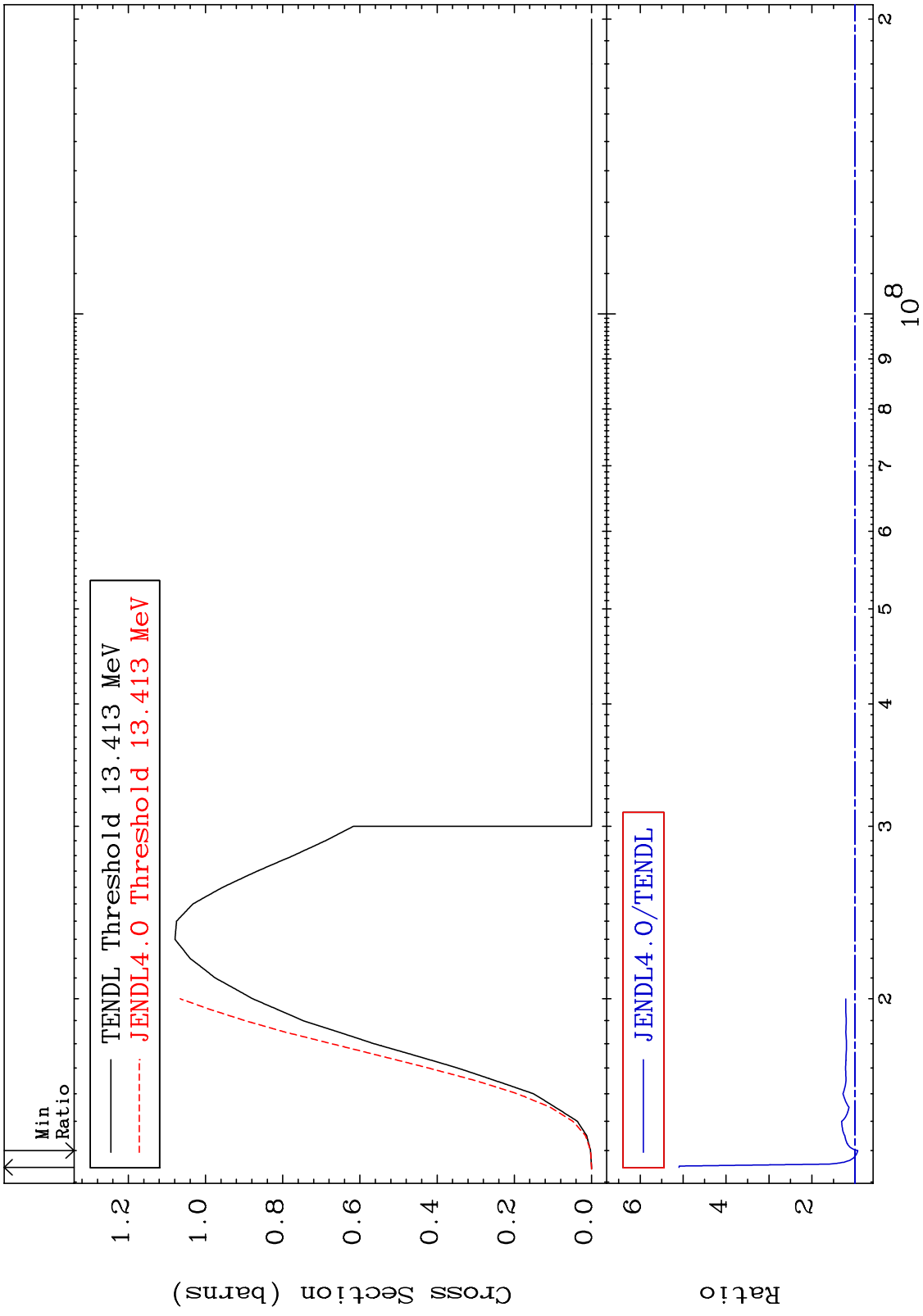
3 Incident Energy (eV) 60-Nd-146

MAT 6037 (n,2n) Cross Section 60-Nd-146 4.325 To 100.8 %



4 Incident Energy (eV) 60-Nd-146

MAT 6037 (n,3n) Cross Section 60-Nd-146 -6.815 To 409.5 %

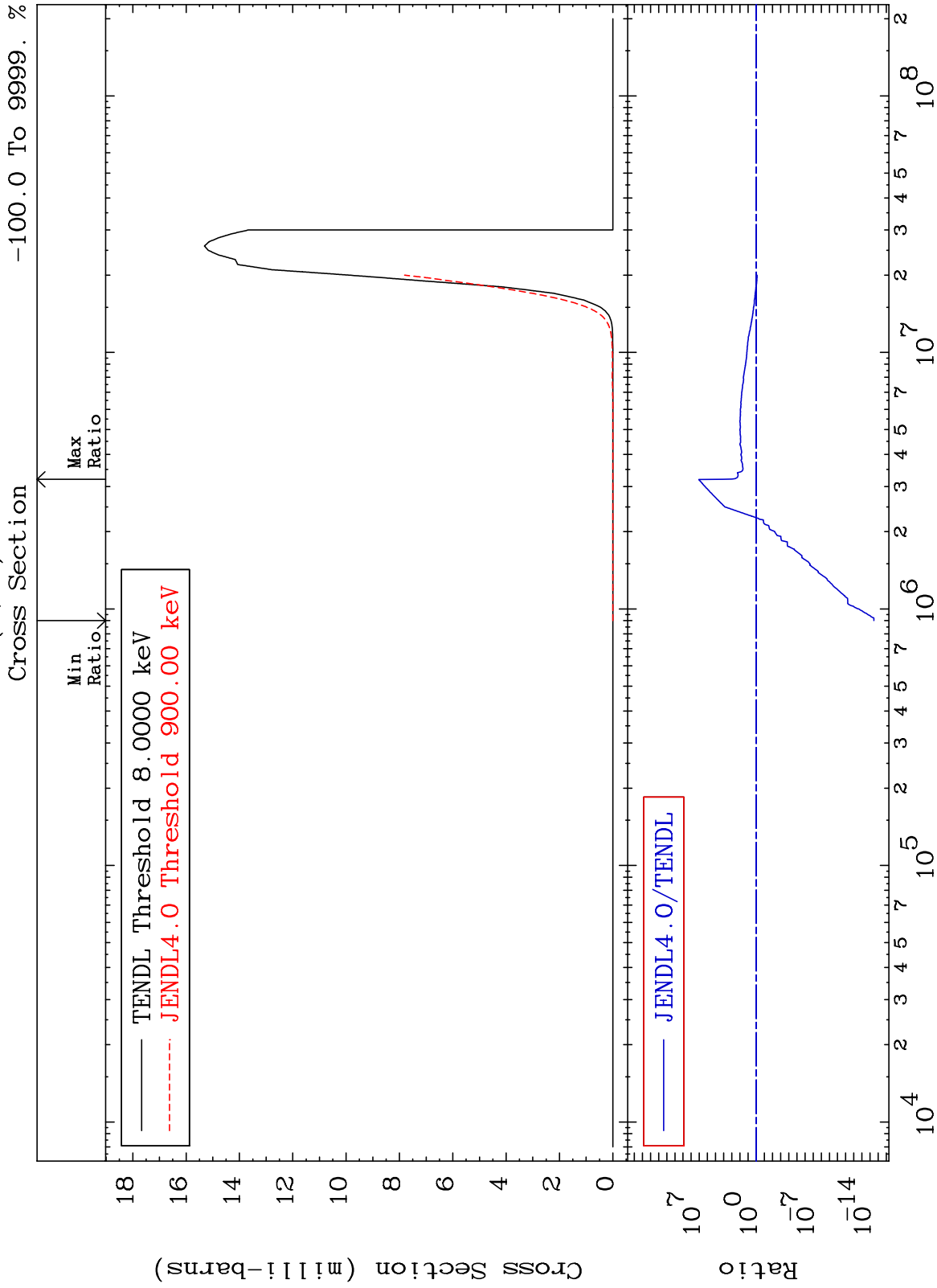


MAT 6037

(n, n') α

60-Nd-146

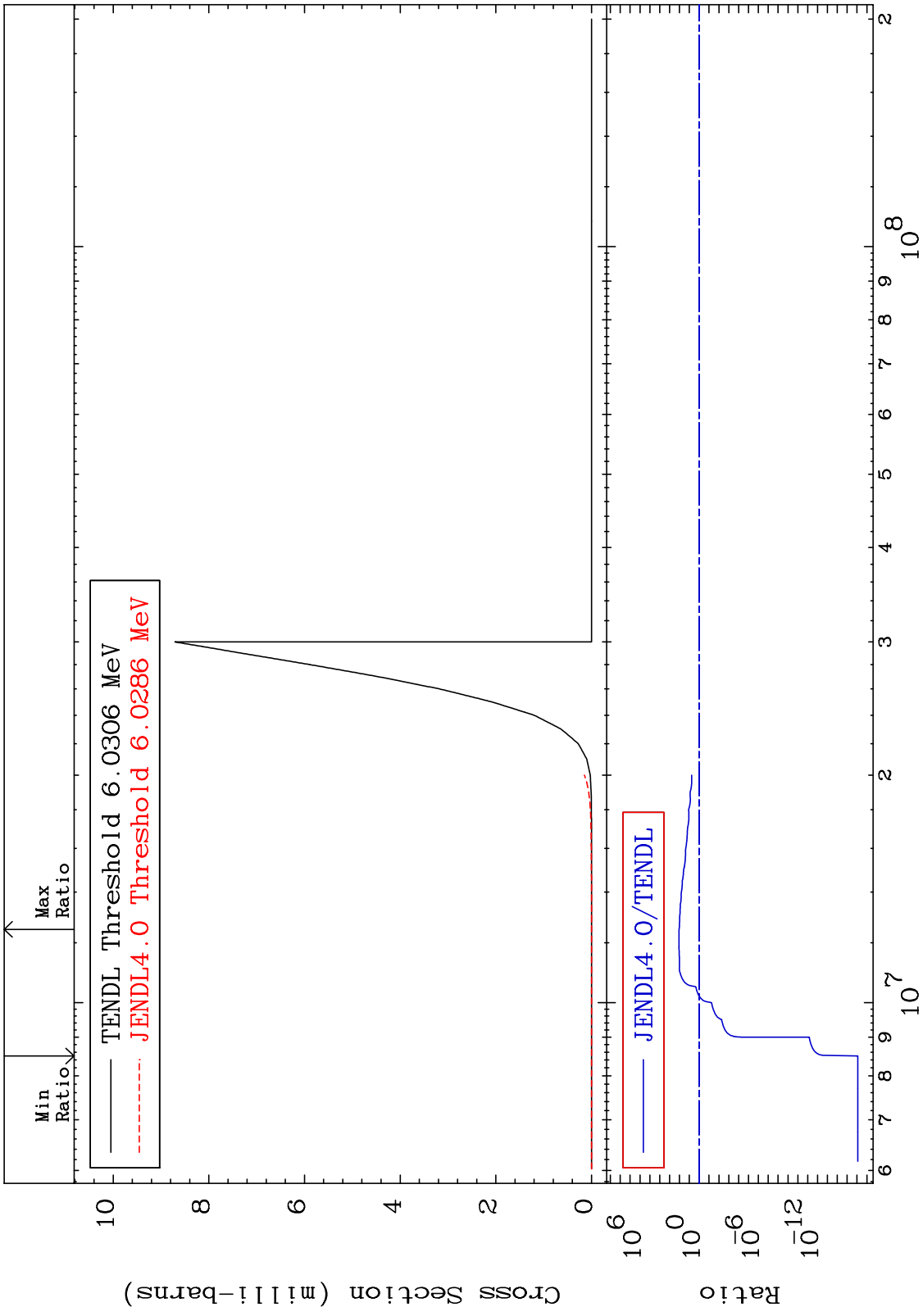
-100.0 To 9999. %



6

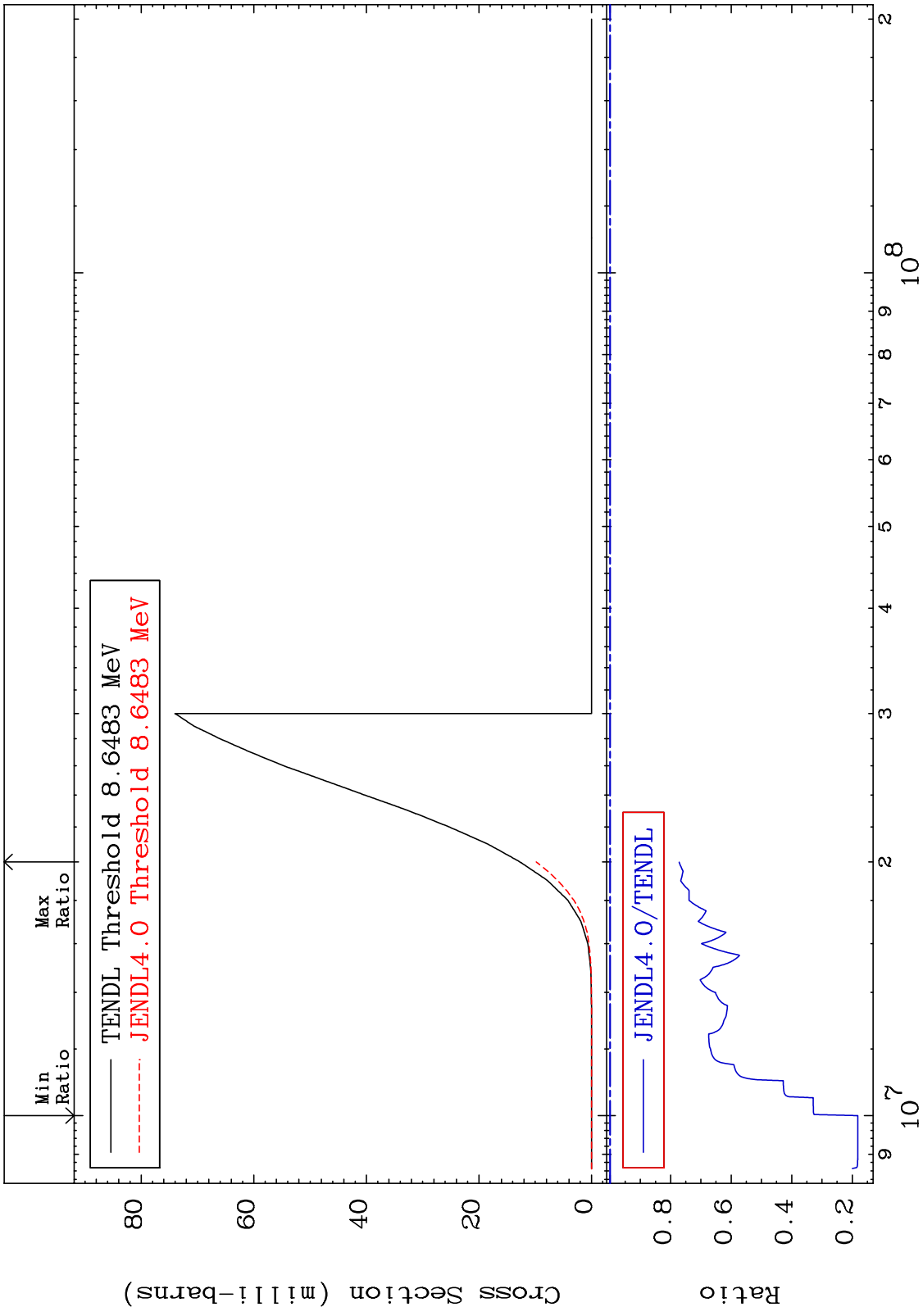
60-Nd-146

MAT 6037 $(n, 2n) \alpha$ $^{60}\text{Nd-146}$
 Cross Section -100.0 To 9999. %



Incident Energy (eV) $^{60}\text{Nd-146}$

MAT 6037 (n, n') p $^{60}\text{Nd}-146$
Cross Section $-81.85 \text{ To } -22.78\%$



8 10^7 10^8 2 3 4 5 6 7 8 9 2
Ratio Incident Energy (eV) $^{60}\text{Nd}-146$

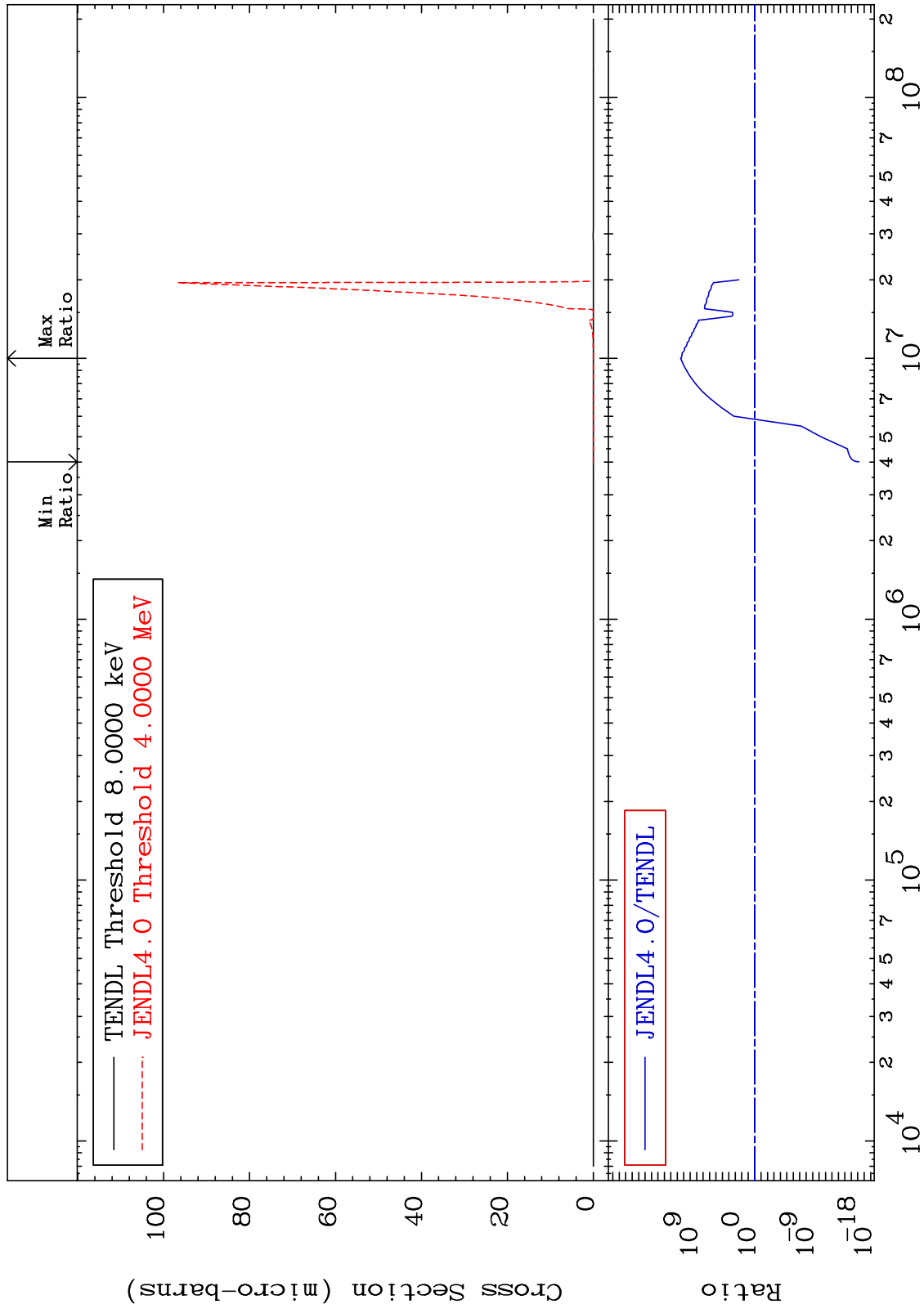
MAT 6037

(n,n') 2α

60-Nd-146

Cross Section

-100.0 To 9999. %

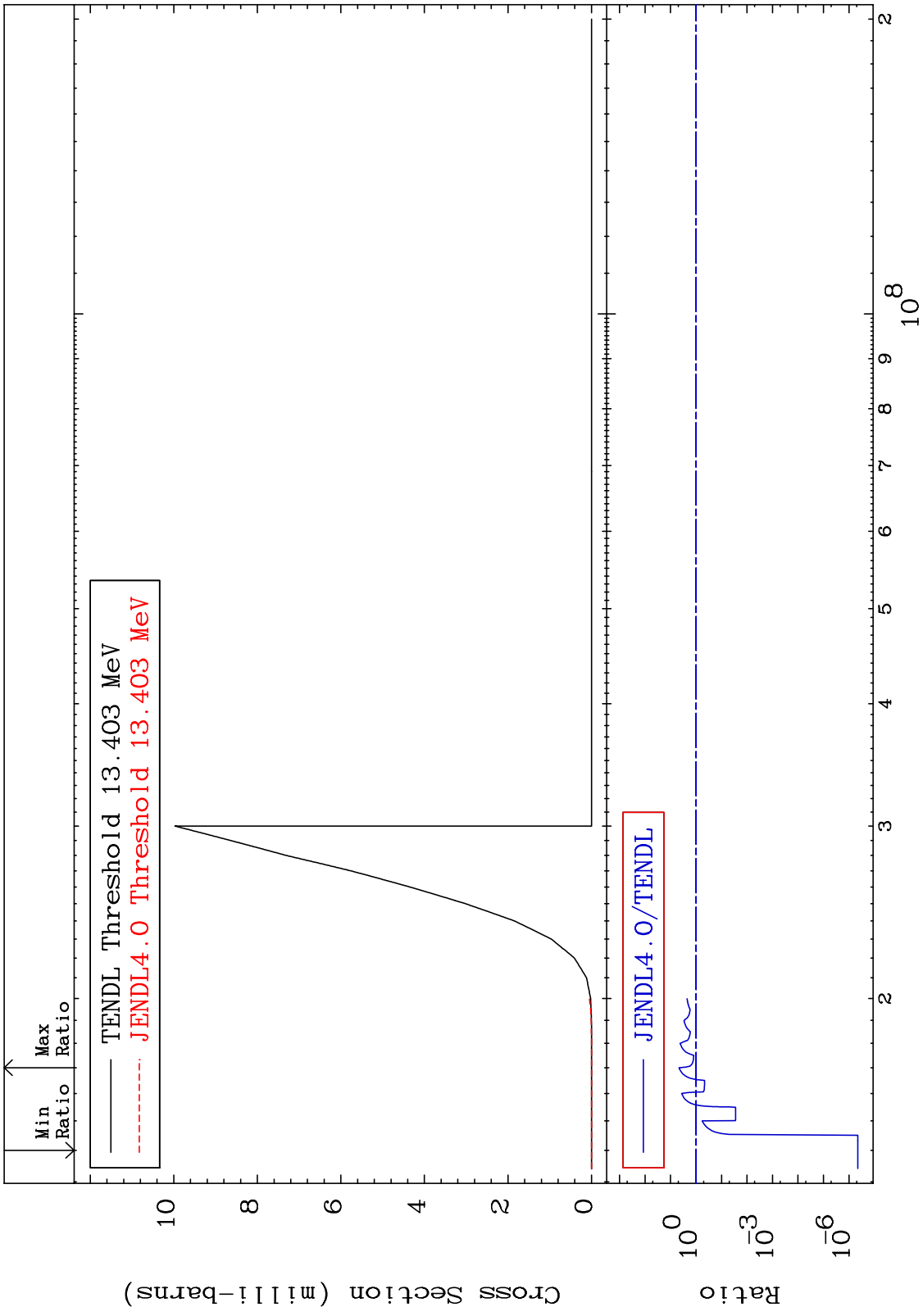


9

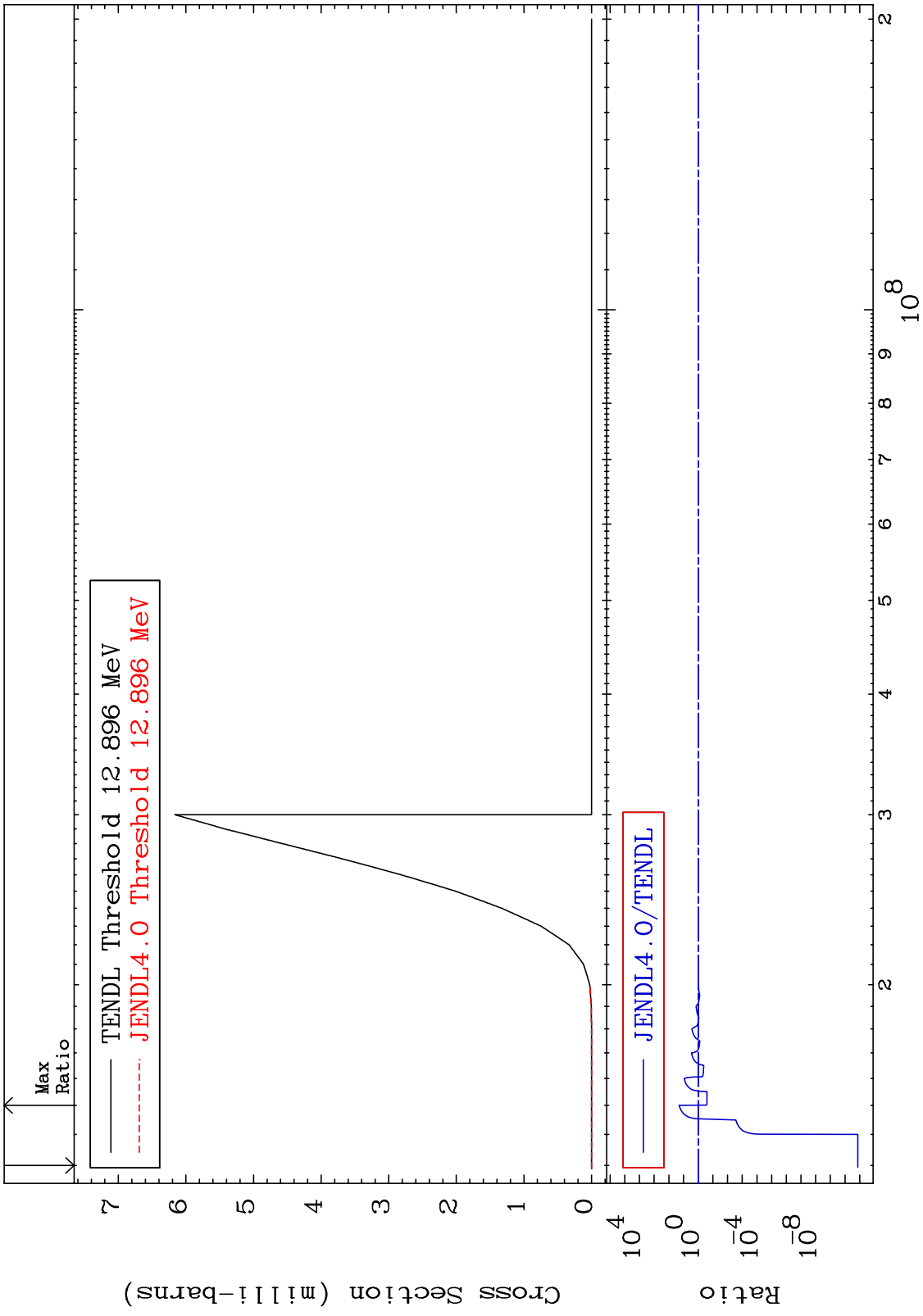
Incident Energy (eV)

60-Nd-146

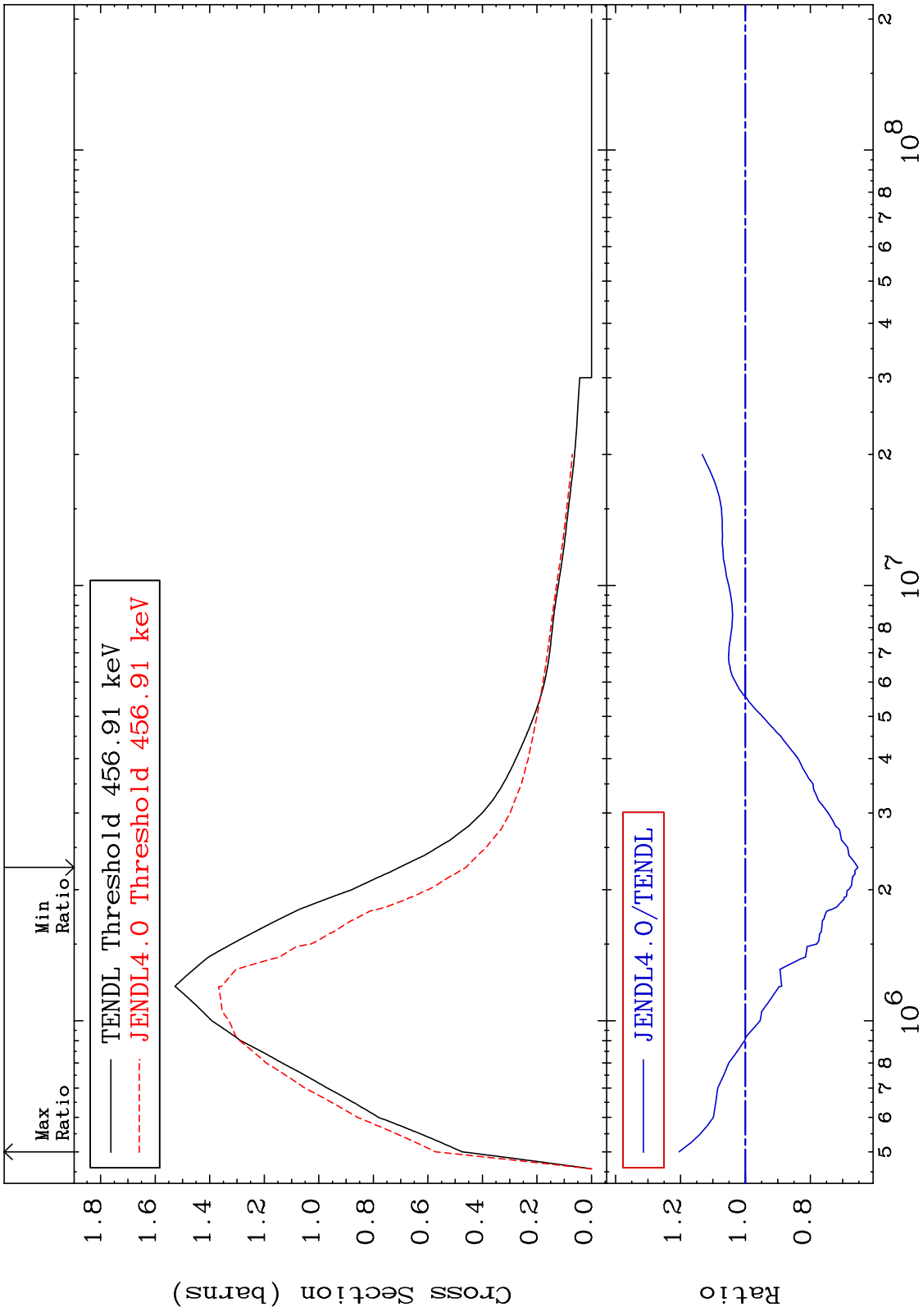
MAT 6037 (n,n') d 60-Nd-146
 Cross Section -100.0 To 364.6 %



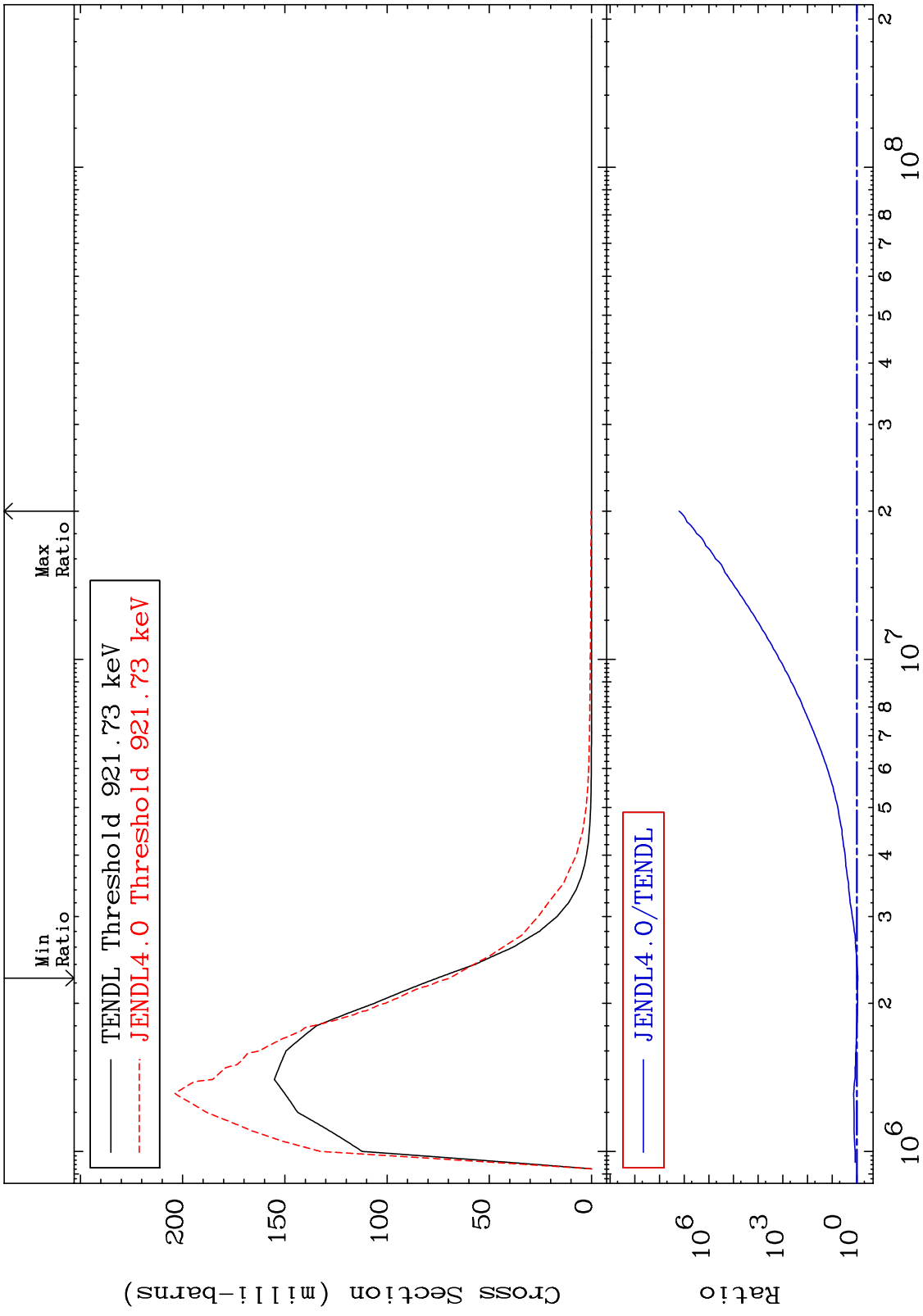
MAT 6037 (n,n') t 60-Nd-146
 Cross Section -100.0 To 1910. %



MAT 6037 MT= 51 (n,n') Level Cross Section 60-Nd-146
 -34.65 To 20.43 %

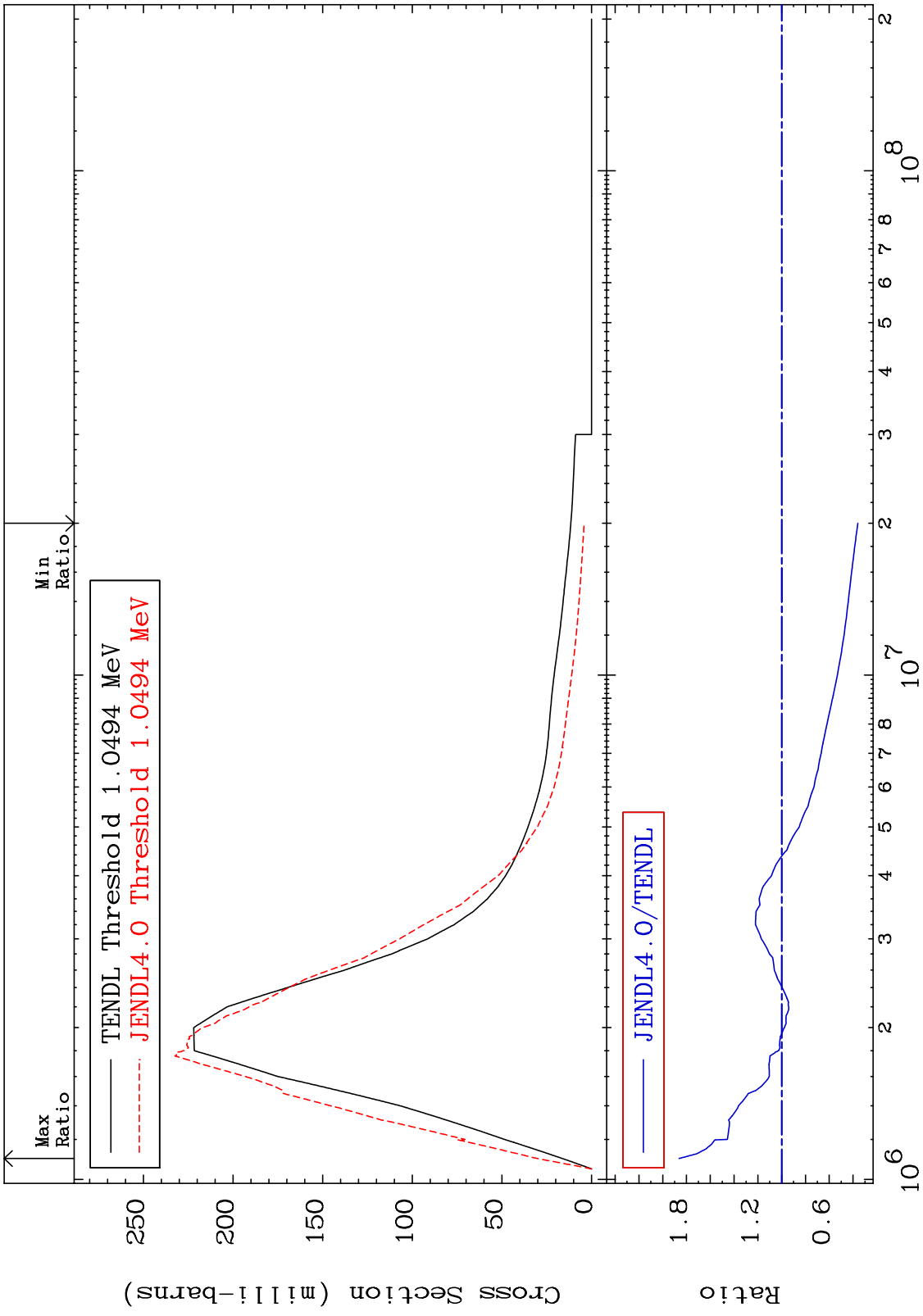


MAT 6037 MT= 52 (n,n') Level Cross Section 60-Nd-146 -8.045 To 9999. %

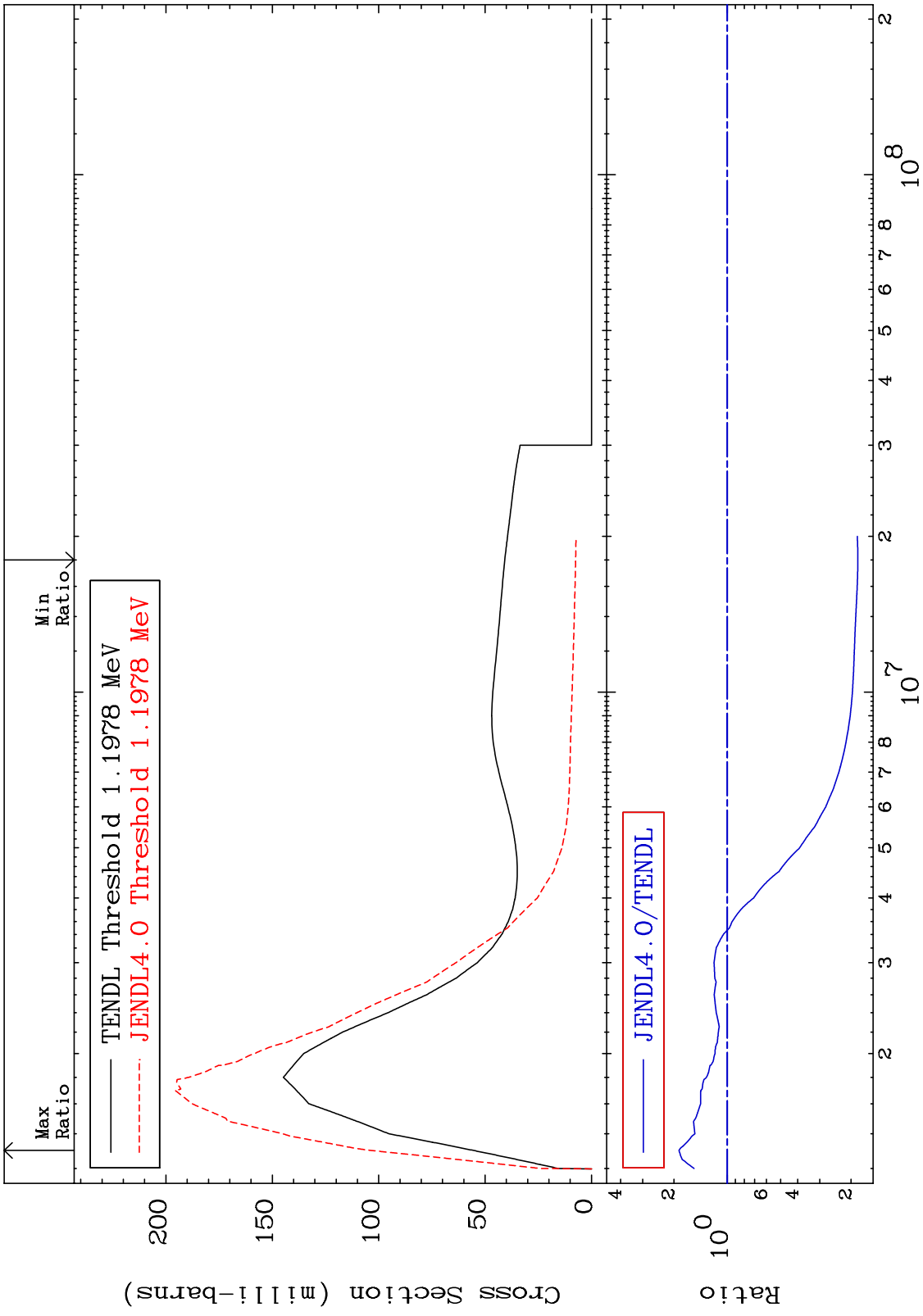


13 Incident Energy (eV) 60-Nd-146

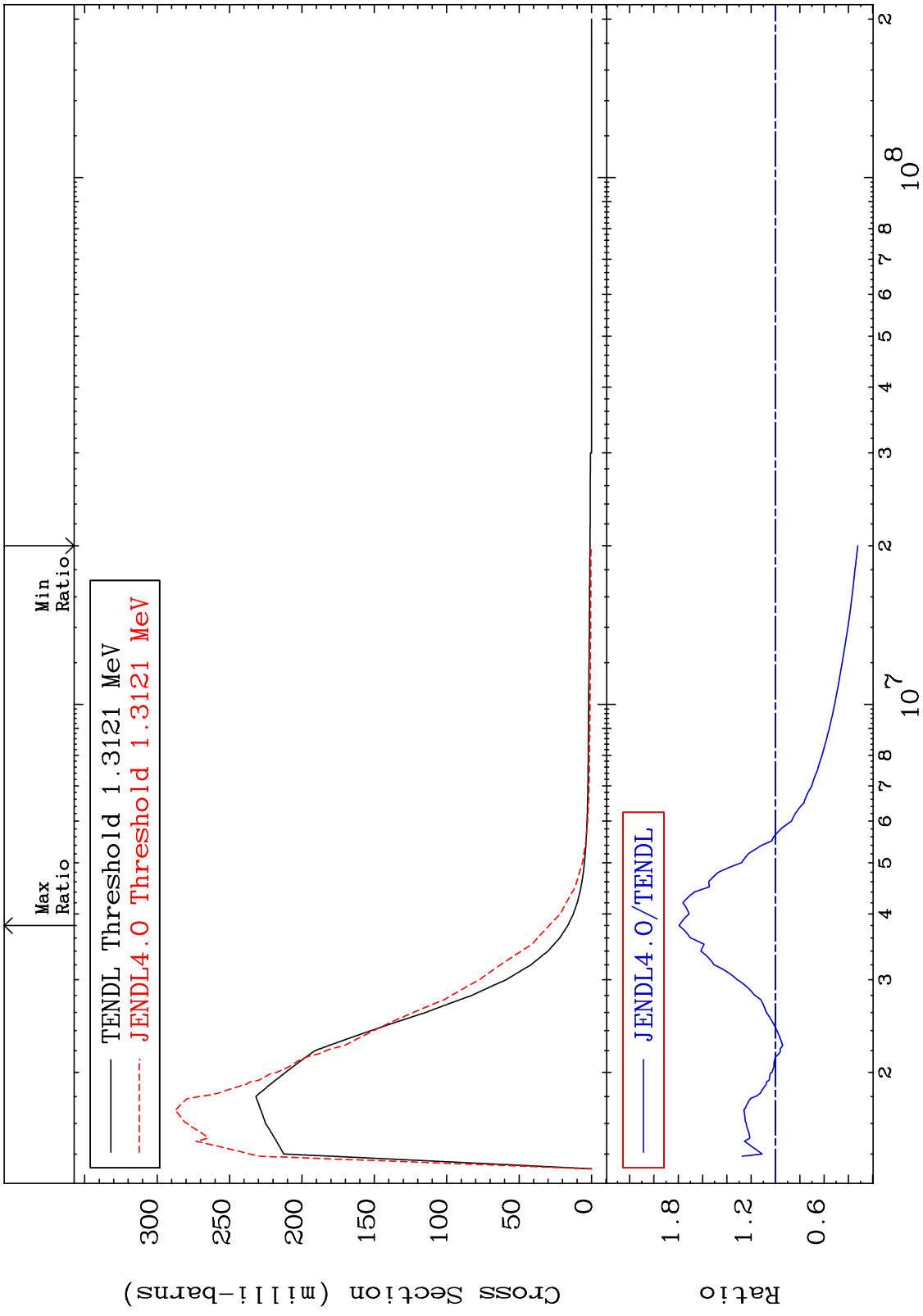
MAT 6037 MT= 53 (n,n') Level Cross Section 60-Nd-146
-64.05 To 86.28 %



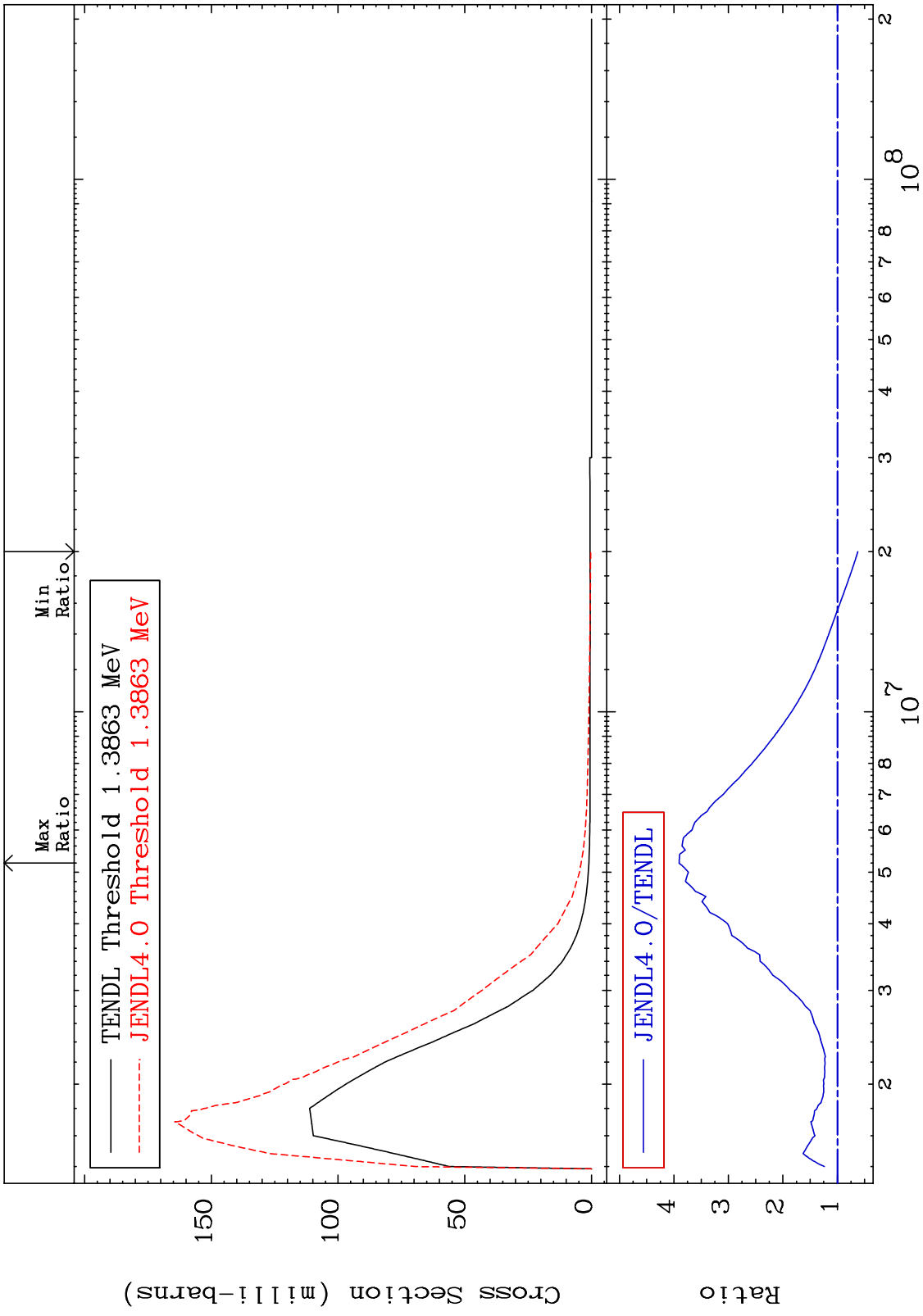
MAT 6037 MT= 54 (n,n') Level Cross Section 60-Nd-146 -81.69 To 87.01 %



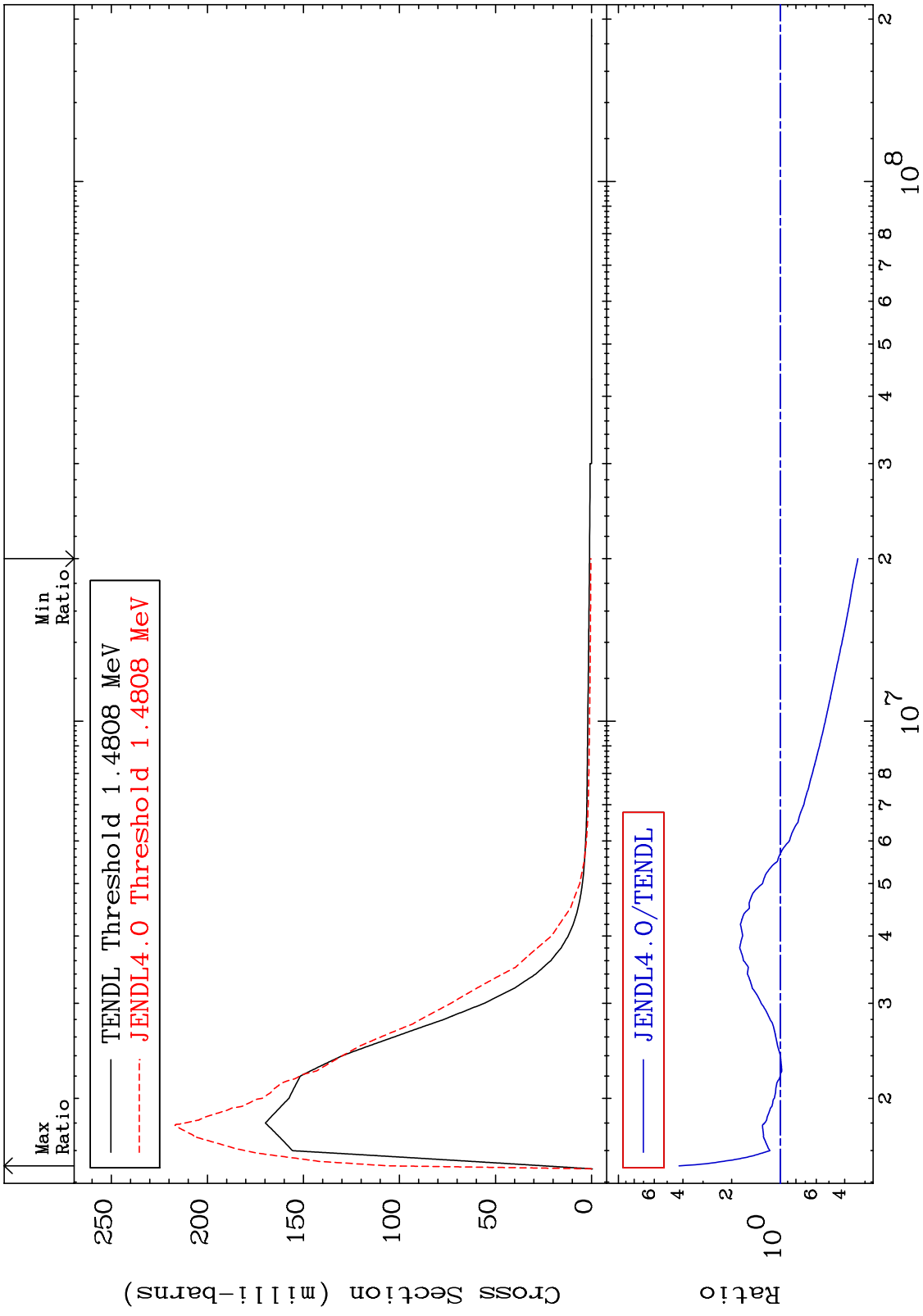
MAT 6037 MT= 55 (n,n') Level Cross Section 60-Nd-146
 -67.79 To 79.33 %



MAT 6037 MT= 56 (n,n') Level Cross Section 60-Nd-146
 -37.55 To 290.6 %



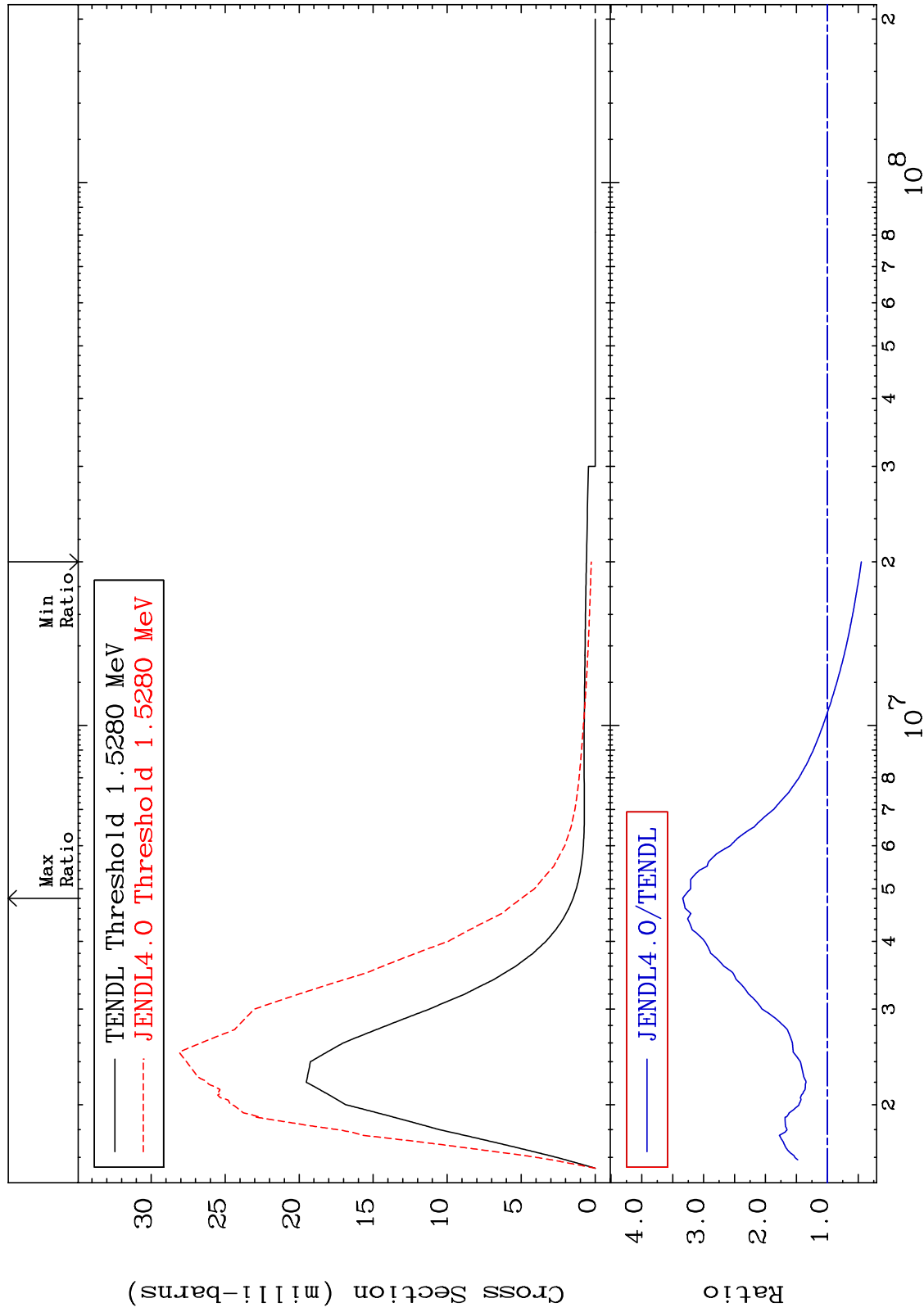
MAT 6037 MT= 57 (n,n') Level Cross Section 60-Nd-146 -66.81 To 322.3 %



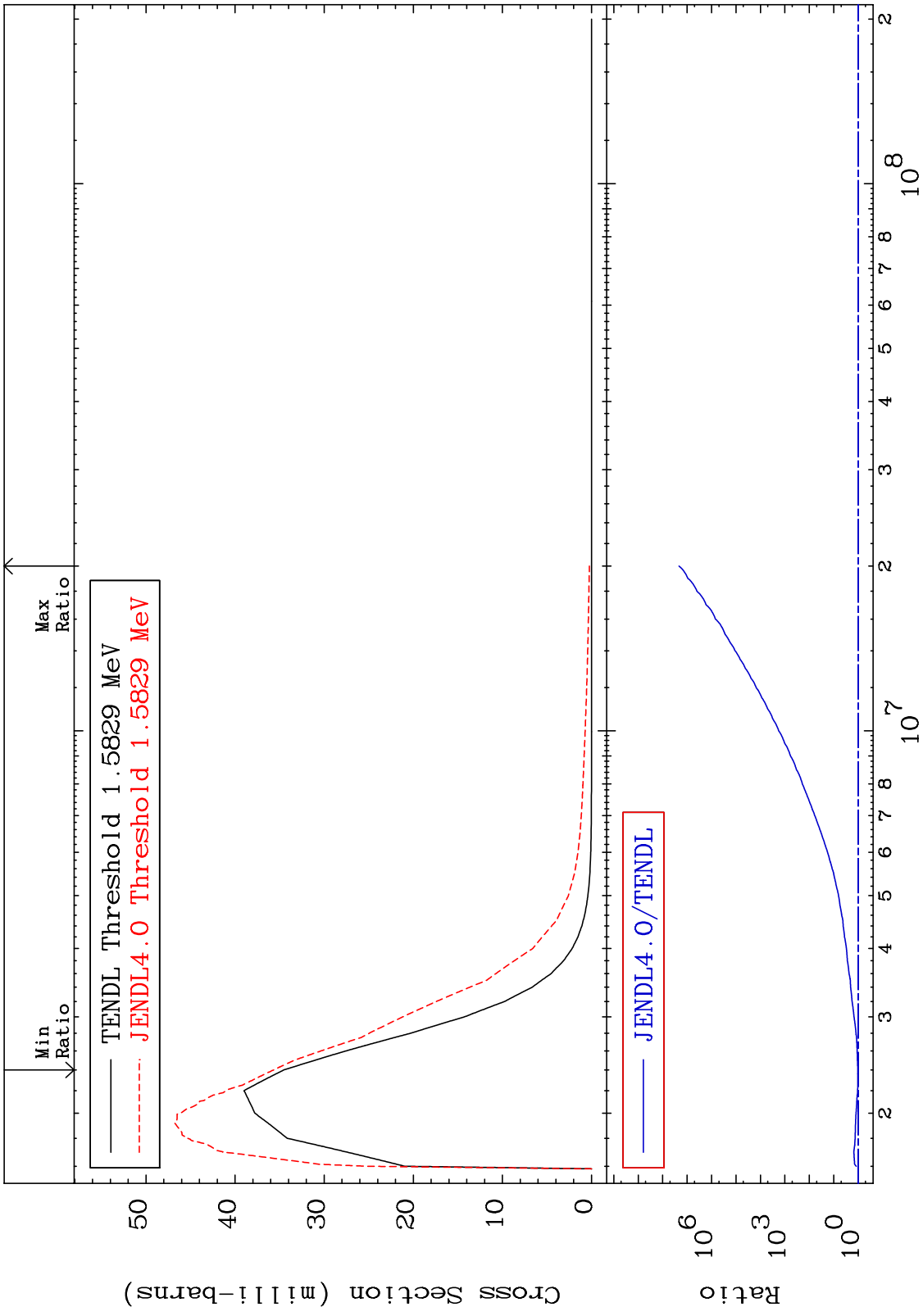
MAT 6037

MT= 58 (n,n') Level
Cross Section

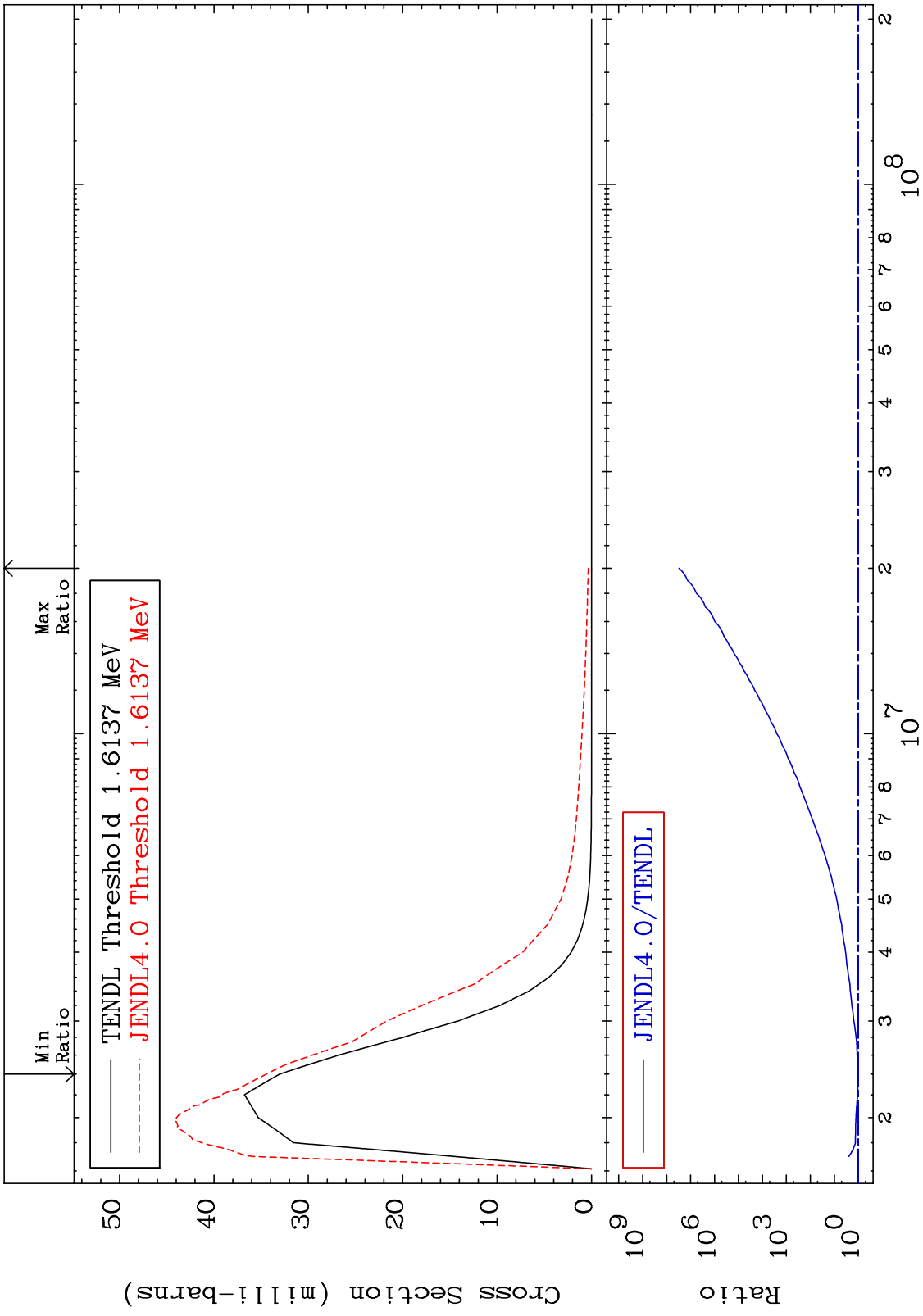
60-Nd-146
-54.98 To 233.9 %



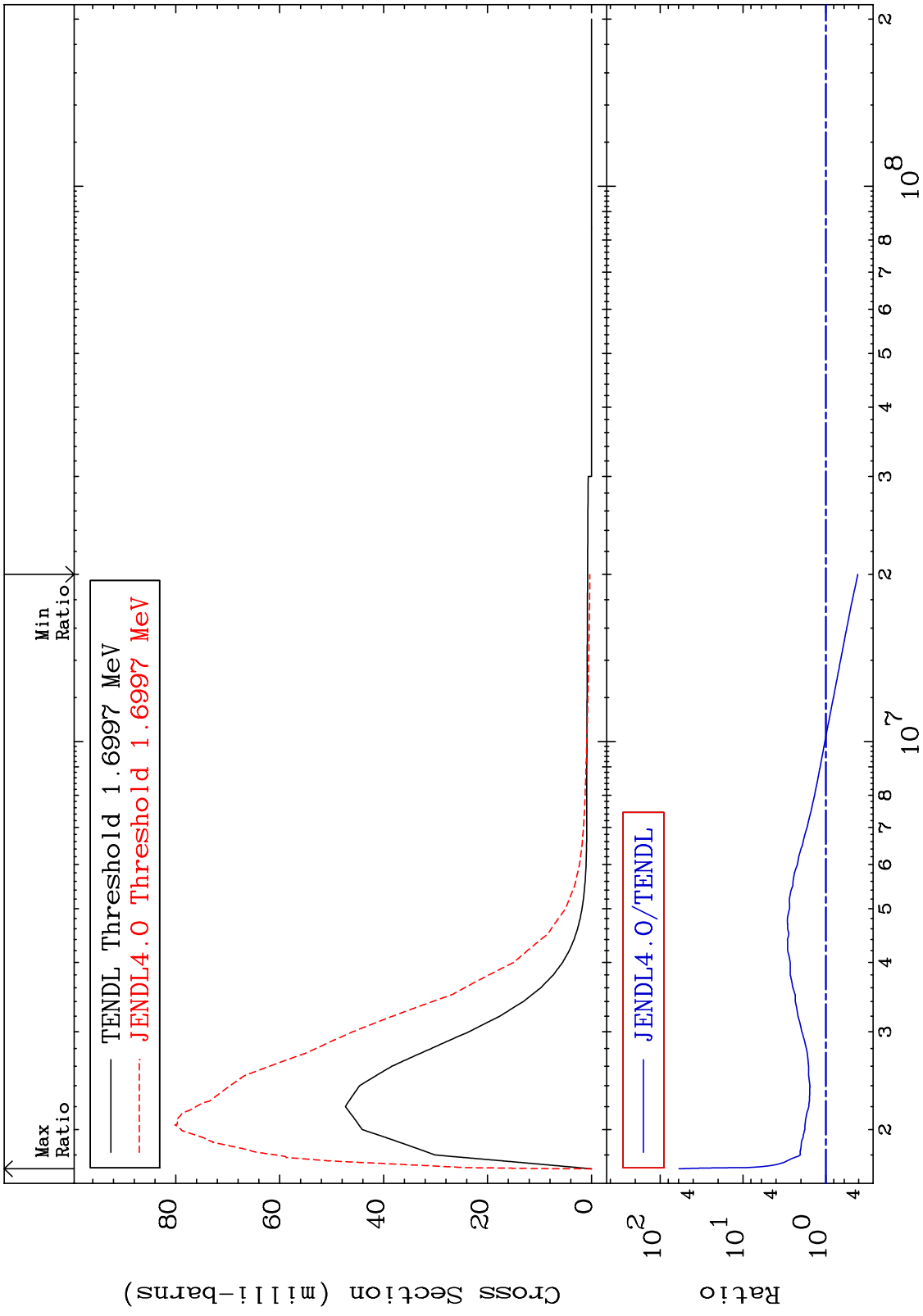
MAT 6037 MT= 59 (n,n') Level Cross Section 60-Nd-146 To 9999. %
 3.358



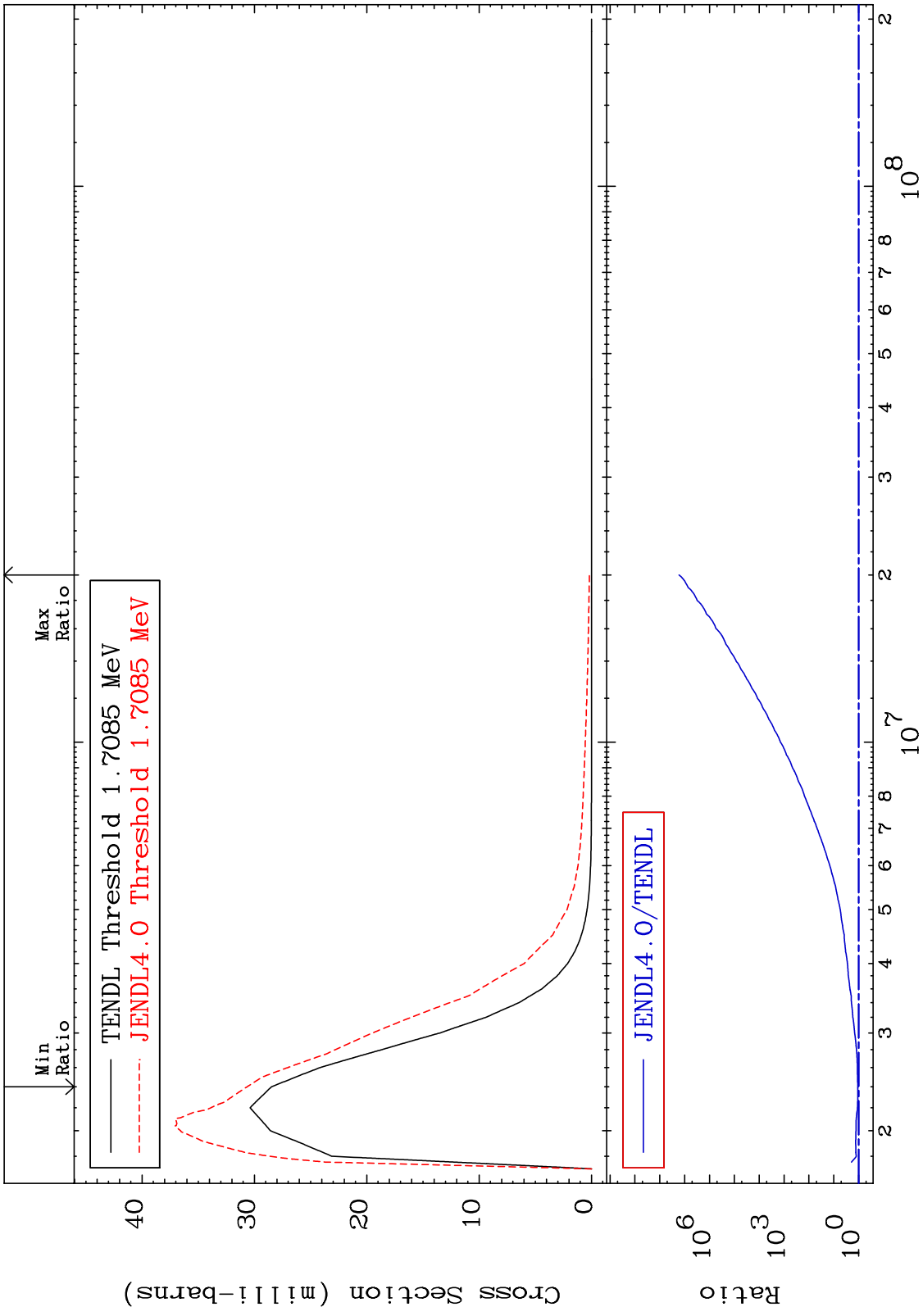
MAT 6037 MT= 60 (n,n') Level Cross Section 60-Nd-146 4.267 To 9999. %



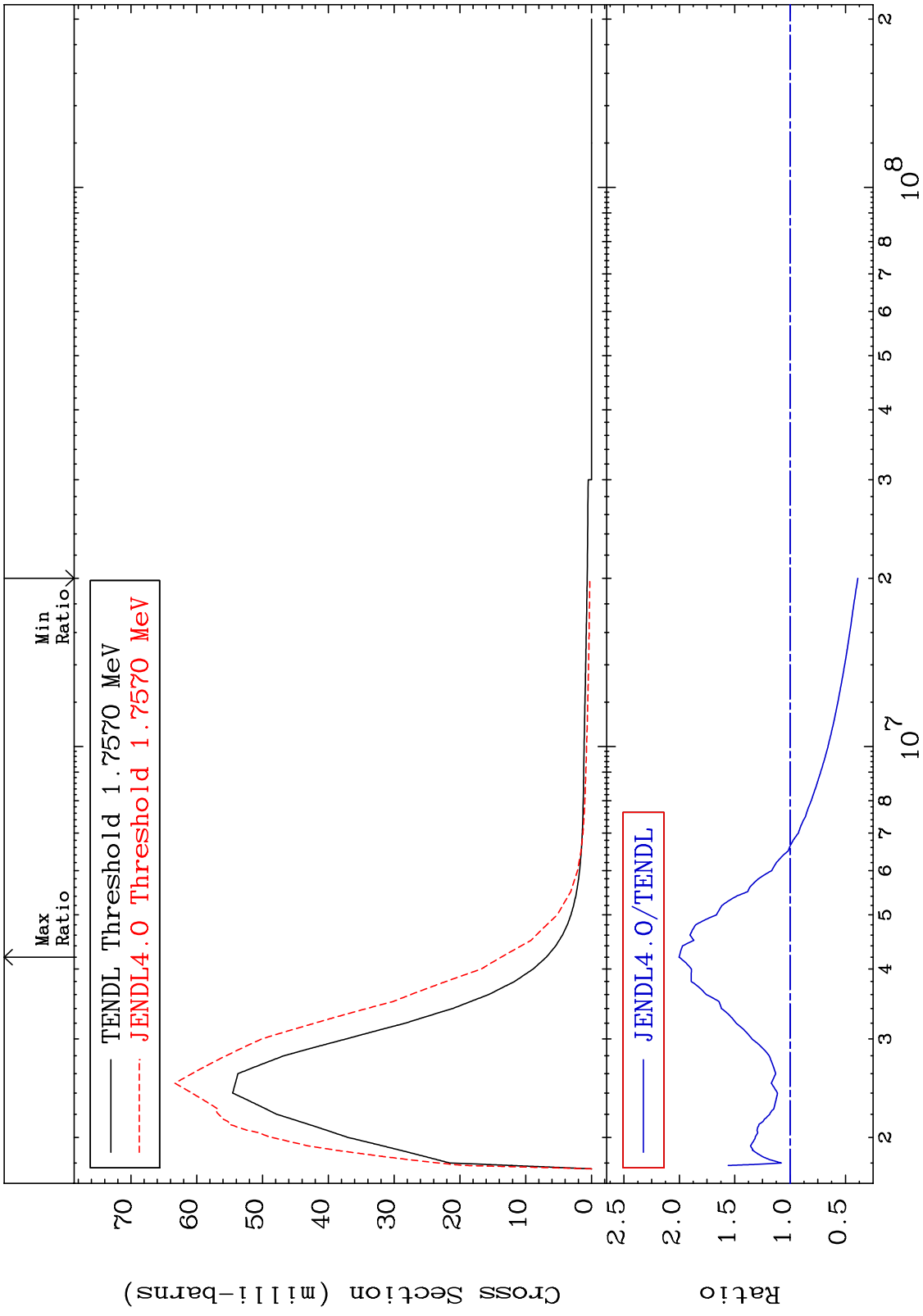
MAT 6037 MT= 61 (n,n') Level Cross Section 60-Nd-146
 -58.97 To 5812. %



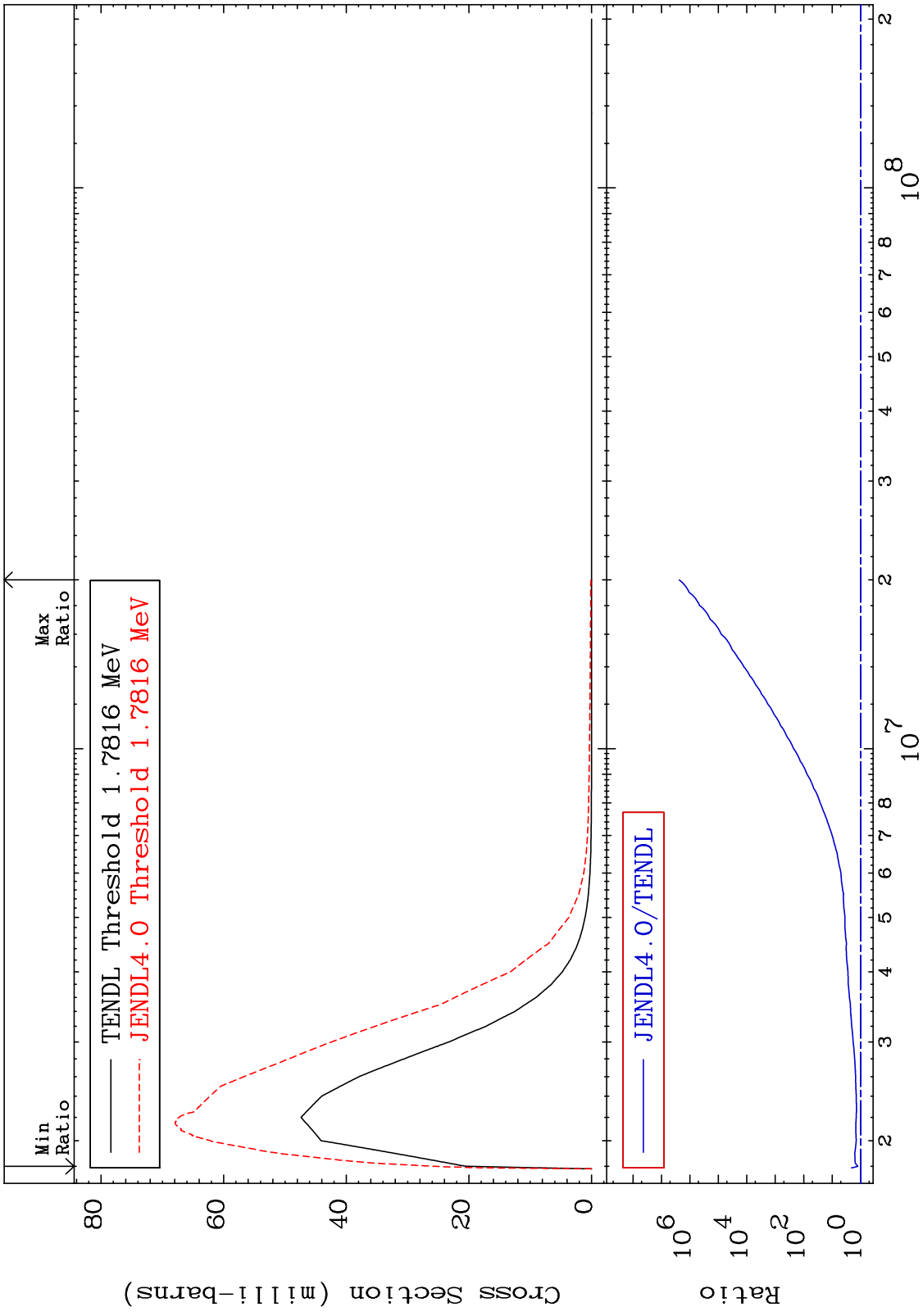
MAT 6037 MT= 62 (n,n') Level Cross Section 60-Nd-146 7.679 To 9999. %



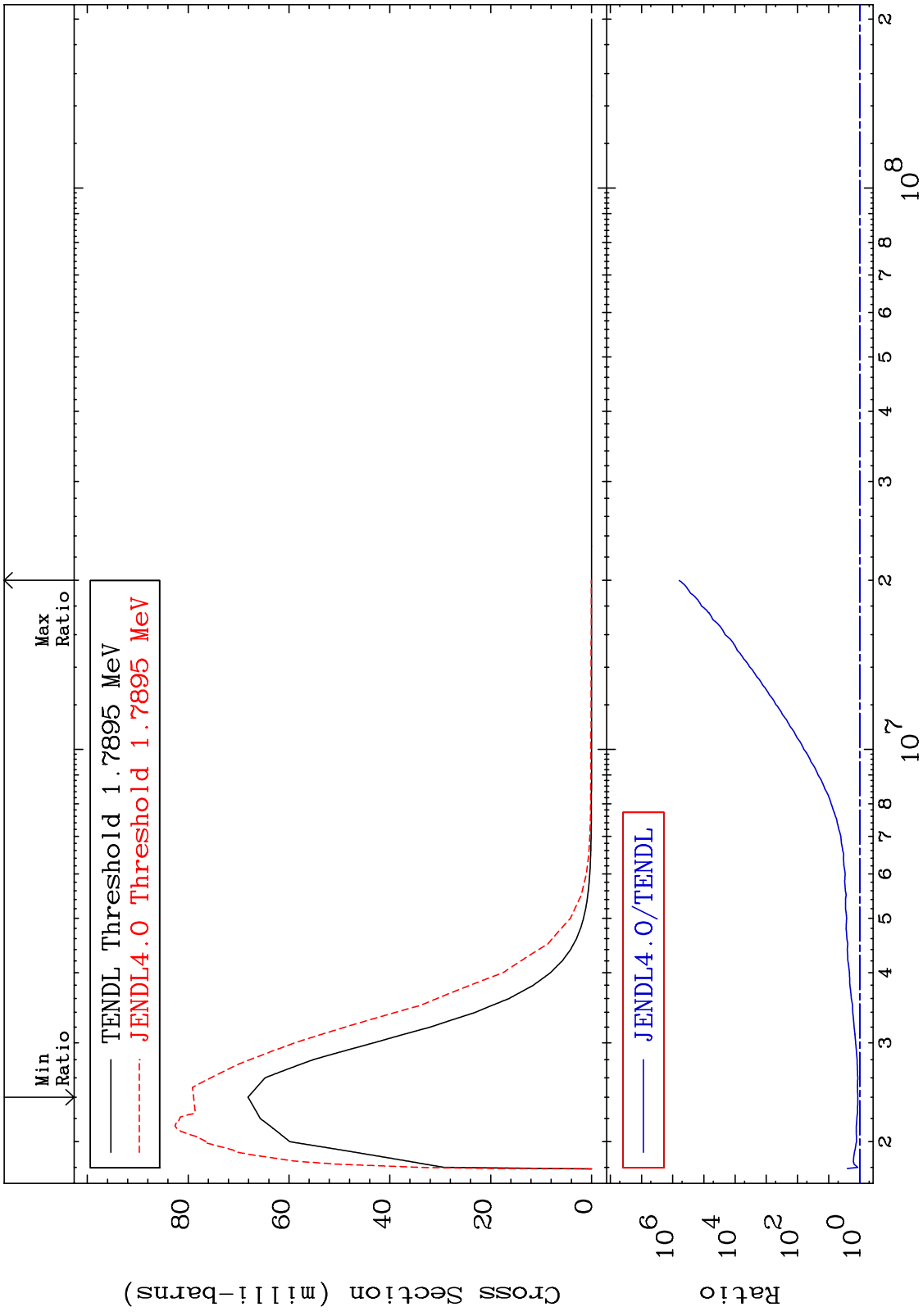
MAT 6037 MT= 63 (n,n') Level Cross Section 60-Nd-146
 -61.15 To 100.3 %



MAT 6037 MT= 64 (n,n') Level Cross Section 60-Nd-146
 24.76 To 9999. %



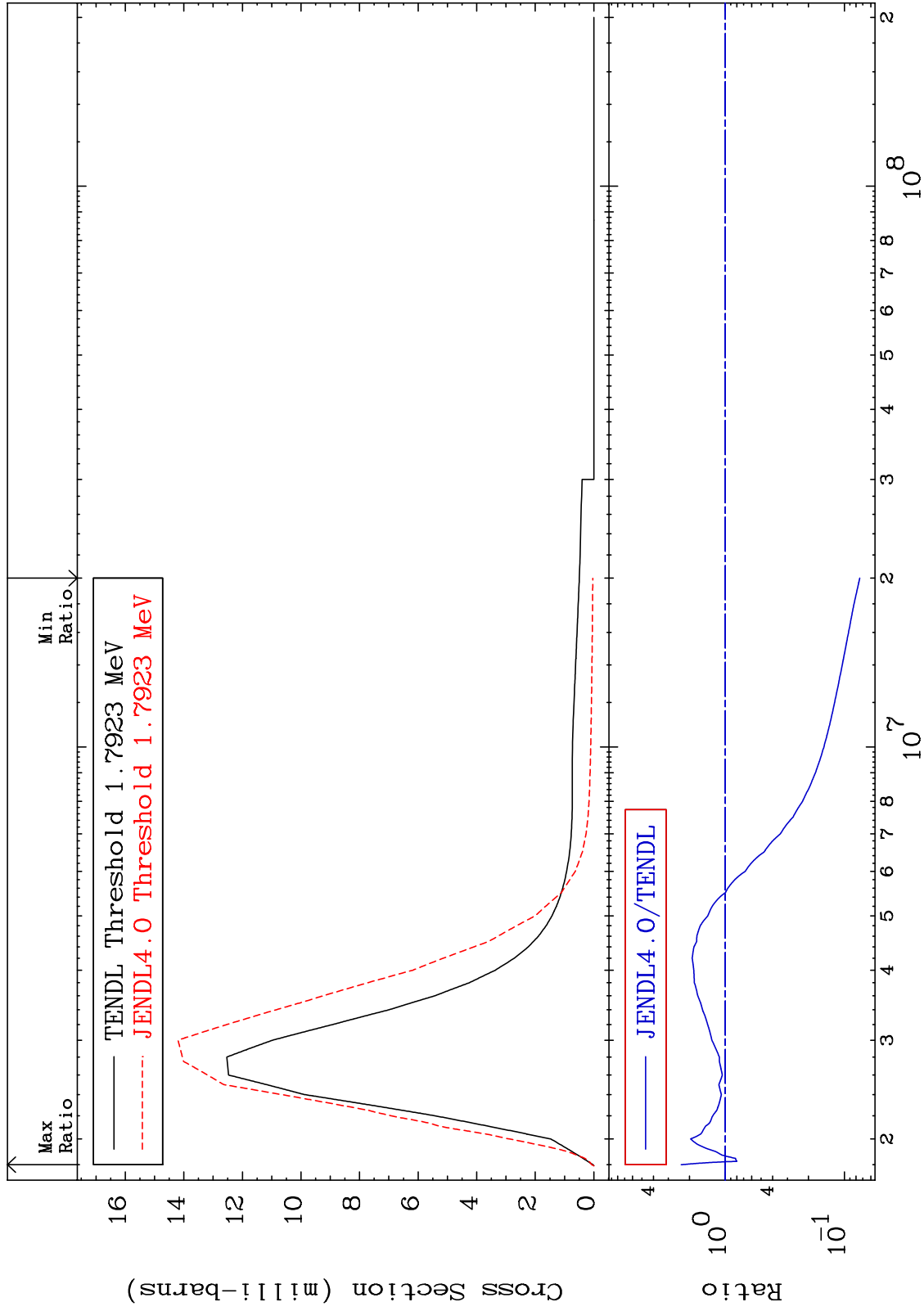
MAT 6037 MT= 65 (n,n') Level Cross Section 60-Nd-146
 15.84 To 9999. %



MAT 6037

MT= 66 (n,n') Level
Cross Section

60-Nd-146
-92.57 To 134.0 %

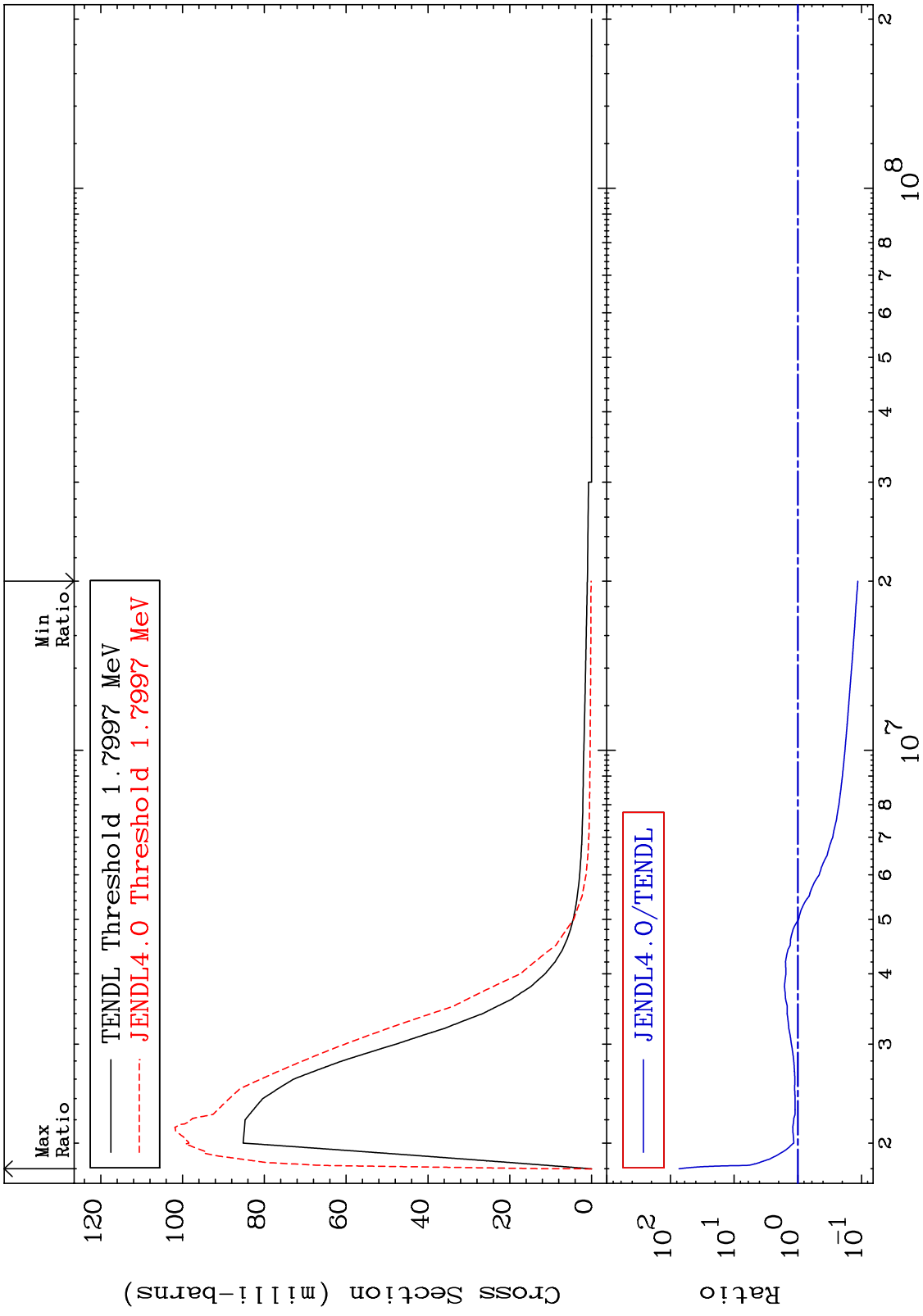


27

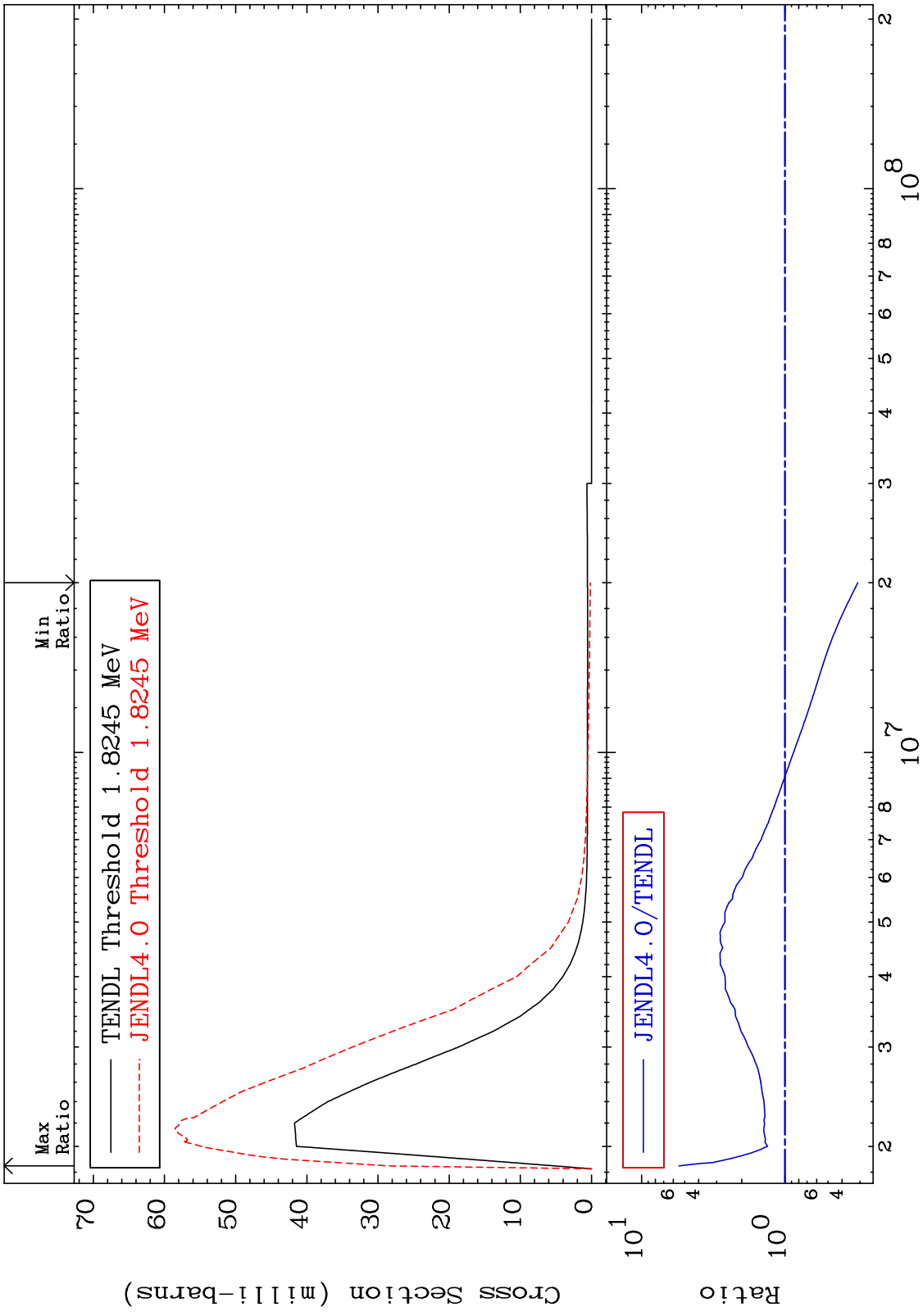
Incident Energy (eV)

60-Nd-146

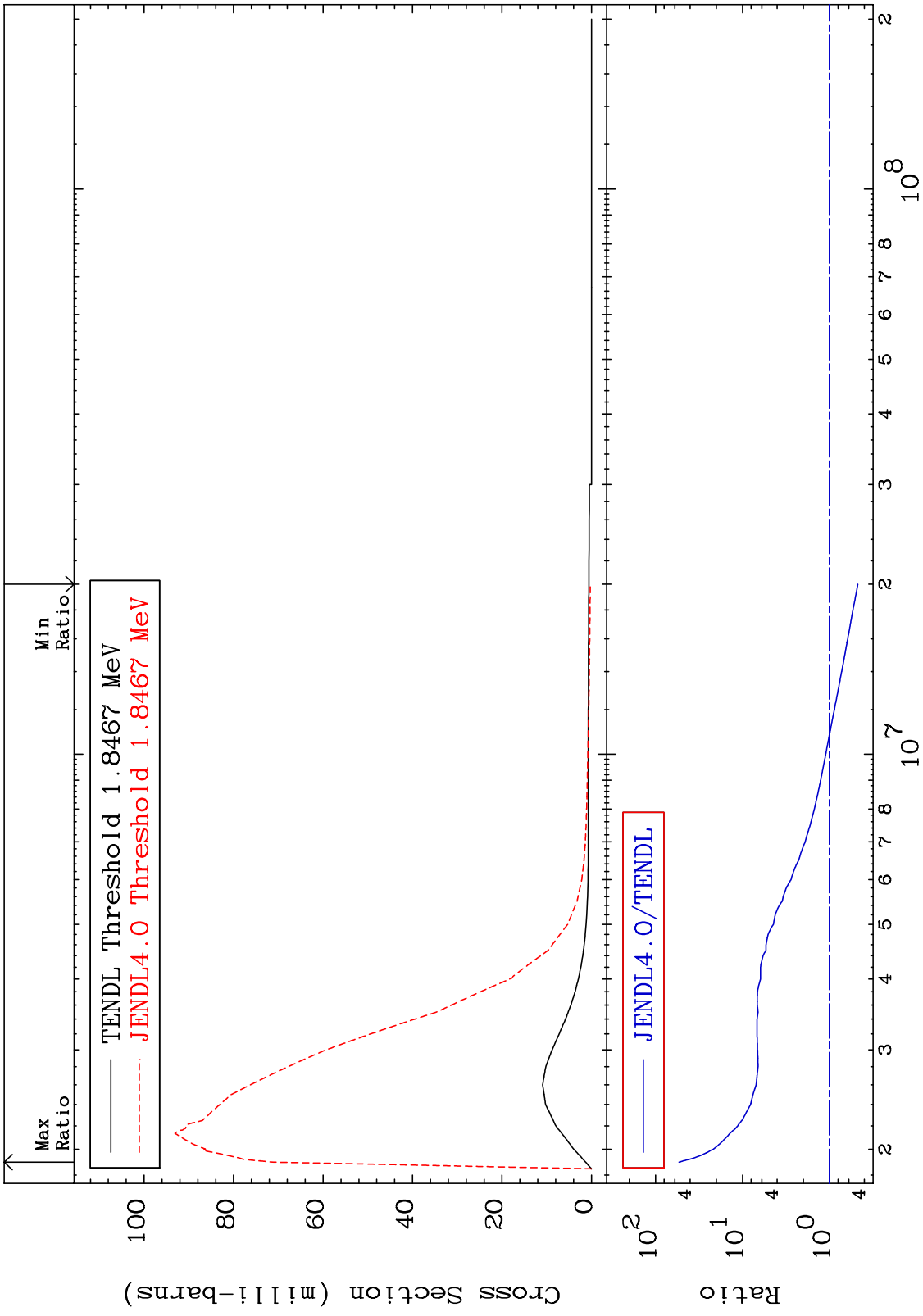
MAT 6037 MT= 67 (n,n') Level Cross Section 60-Nd-146
 -88.61 To 7251. %



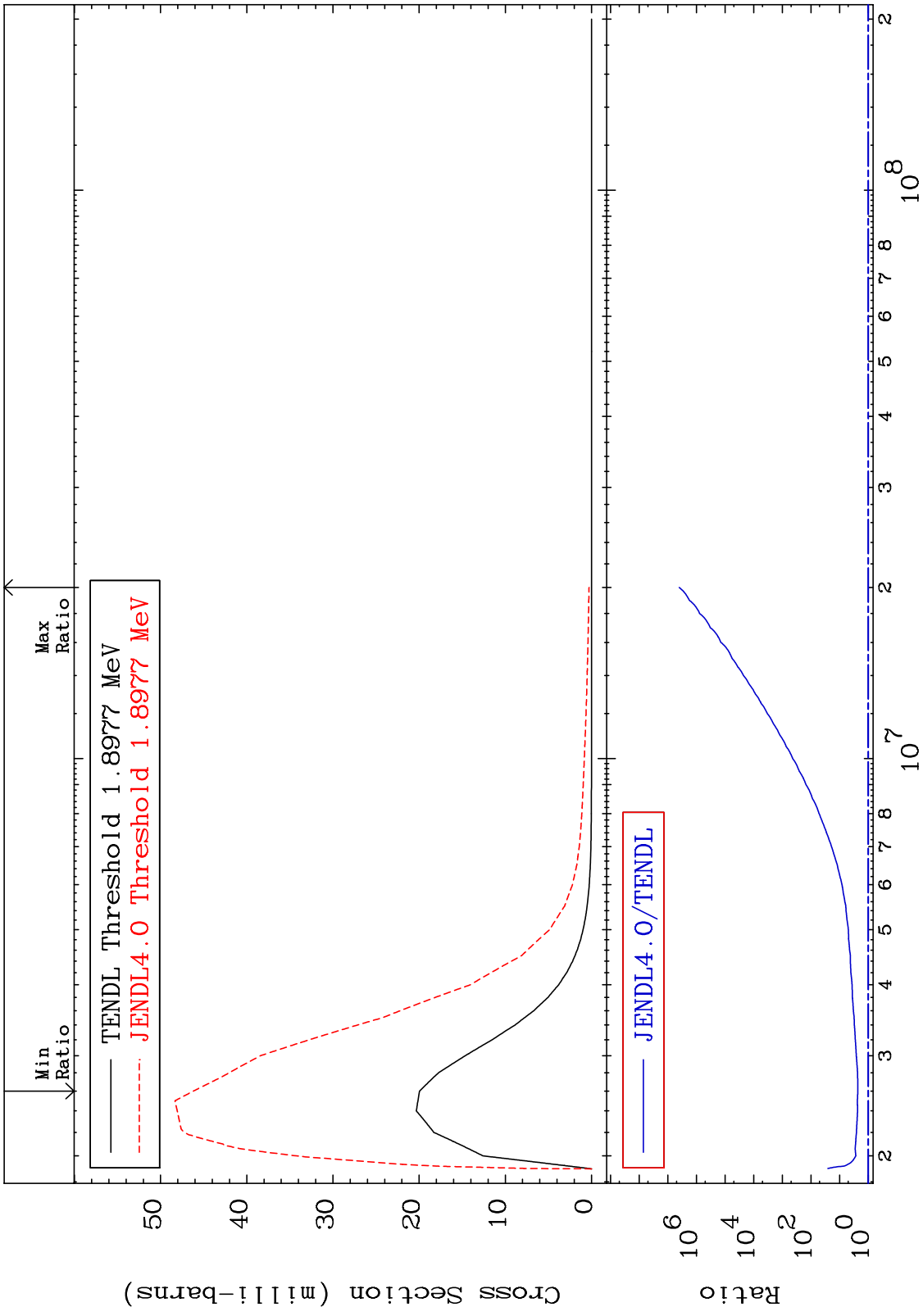
MAT 6037 MT= 68 (n,n') Level Cross Section 60-Nd-146
 -69.00 To 447.1 %



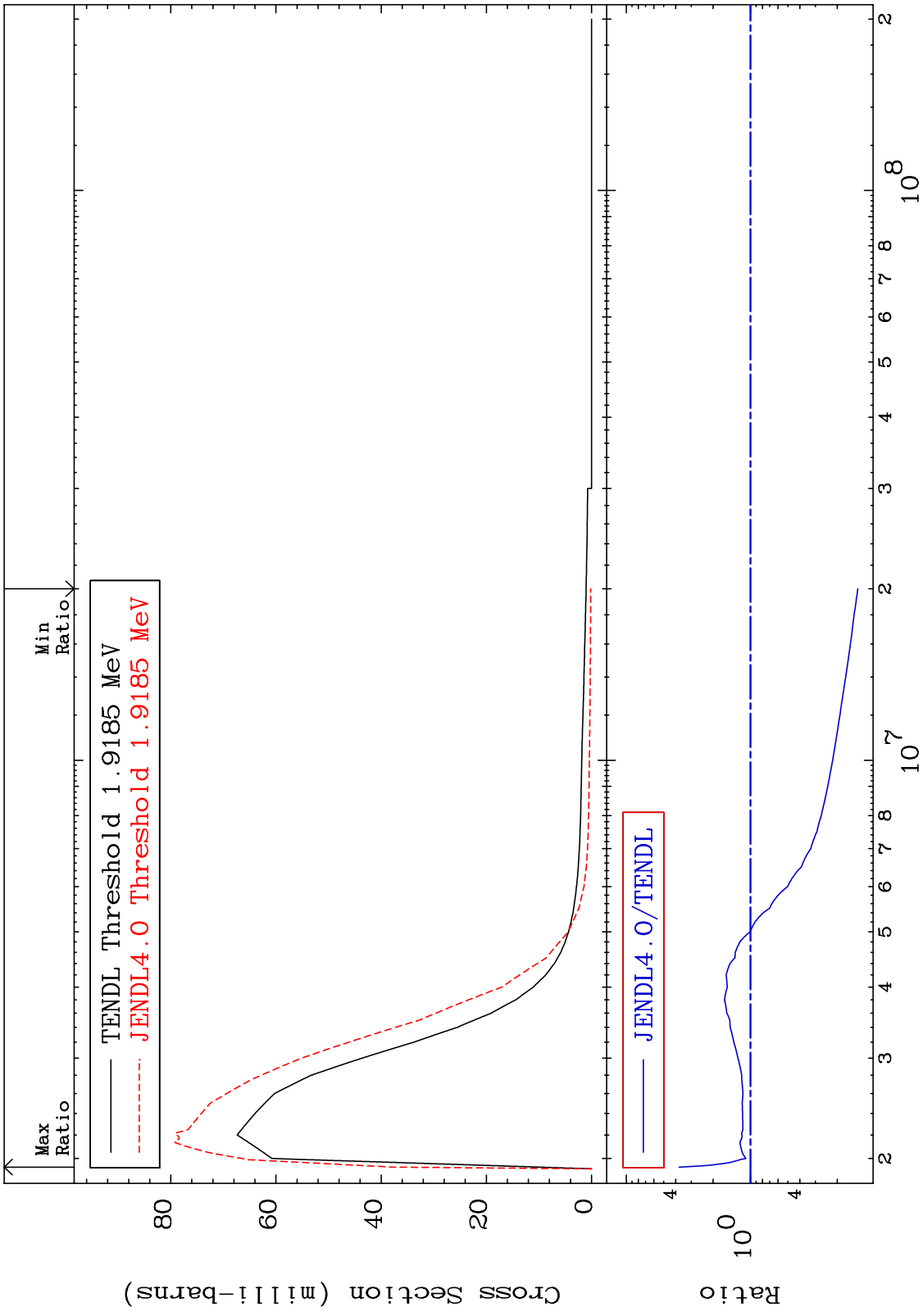
MAT 6037 MT= 69 (n,n') Level Cross Section 60-Nd-146
 -52.60 To 5273. %



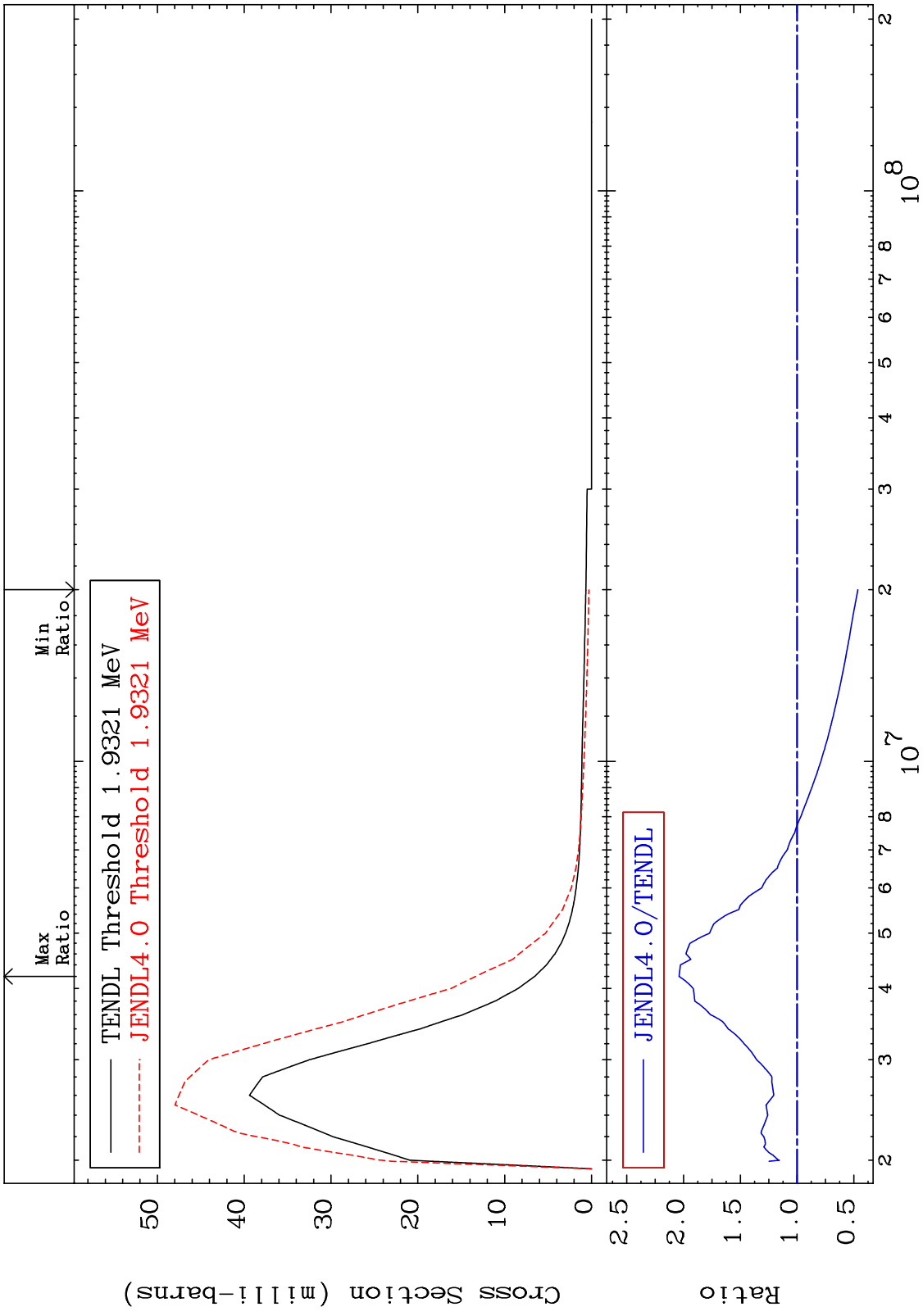
MAT 6037 MT= 70 (n,n') Level Cross Section 60-Nd-146
 131.4 To 9999. %



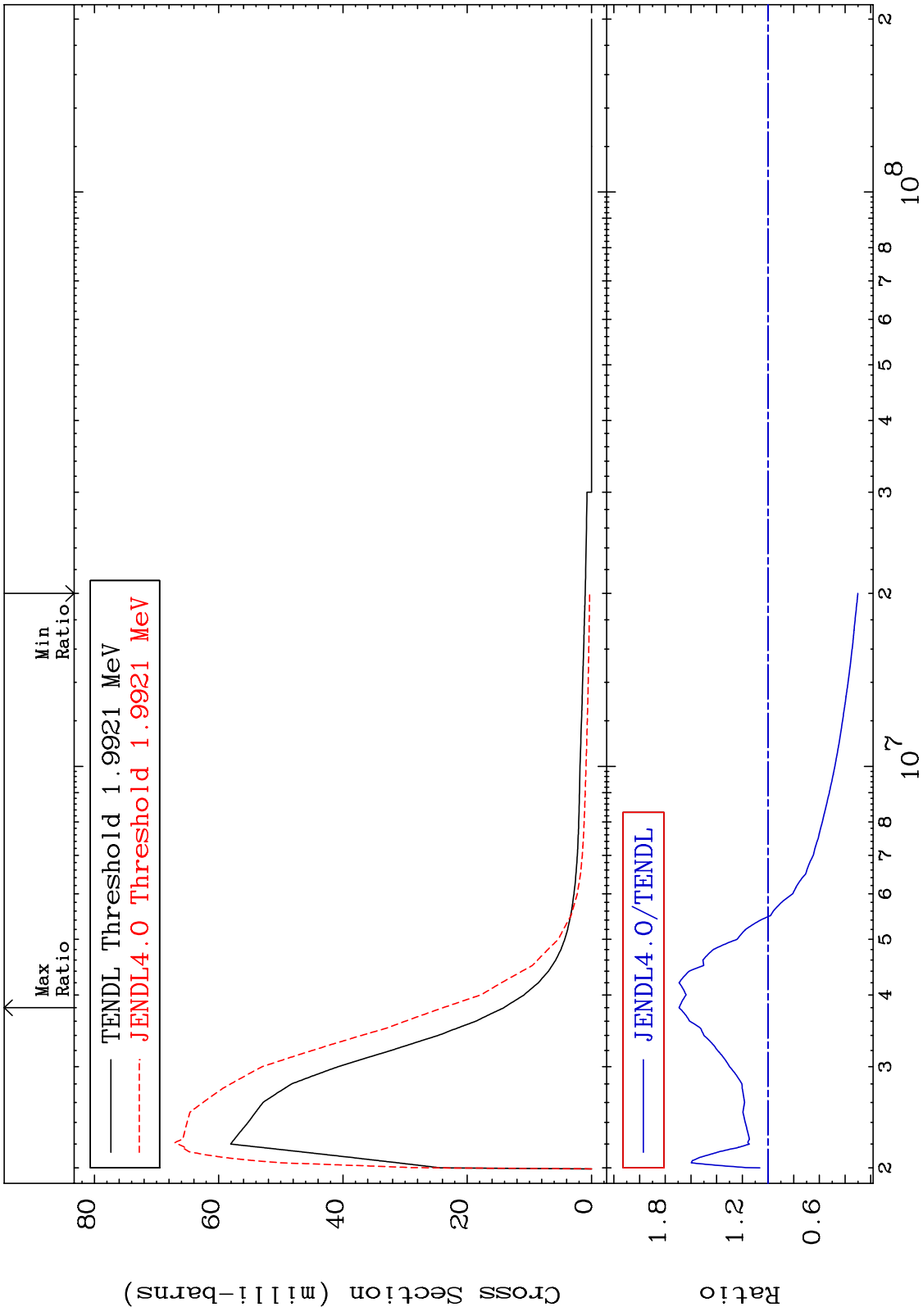
MAT 6037 MT= 71 (n,n') Level Cross Section 60-Nd-146
 -86.33 To 276.6 %



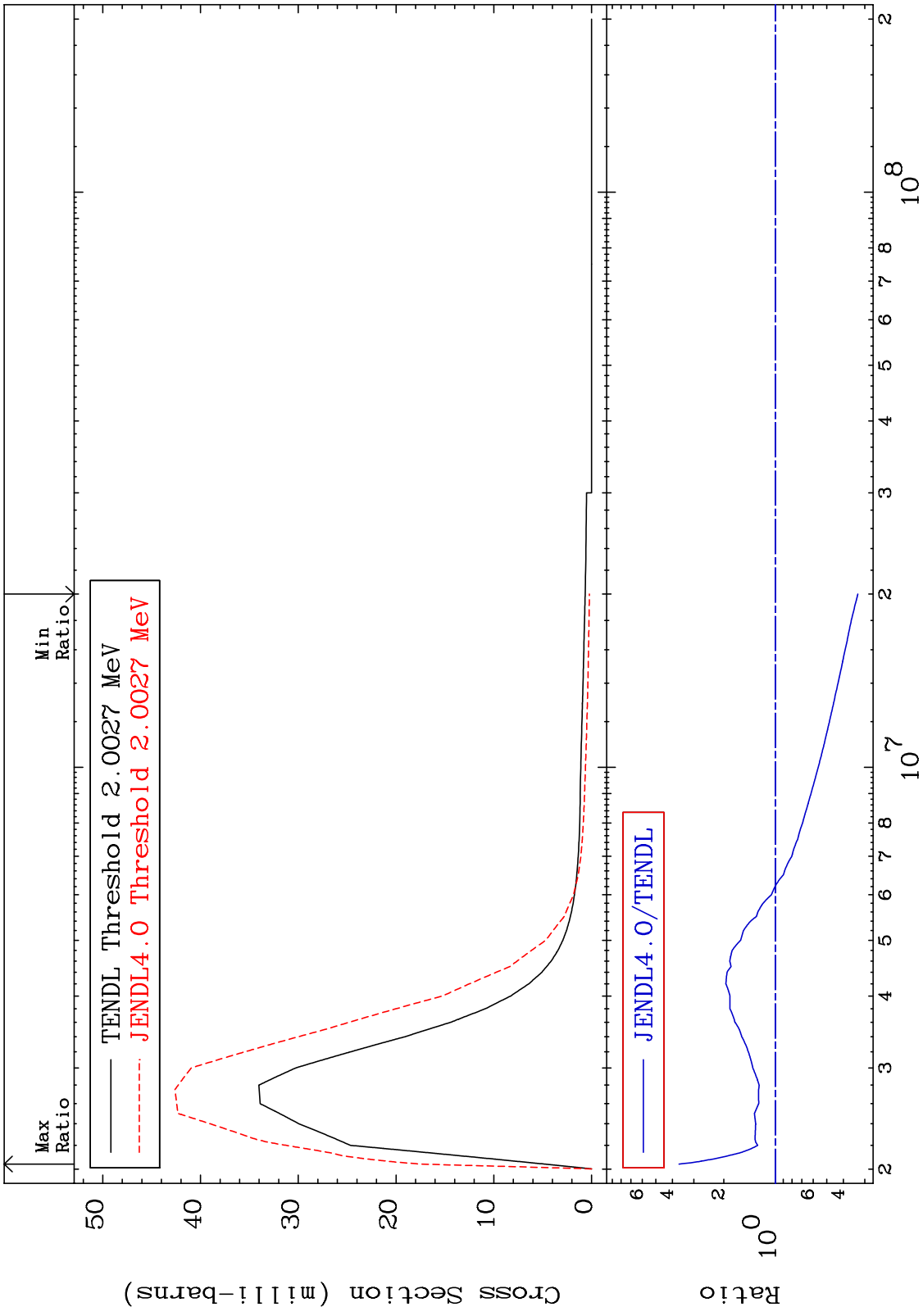
MAT 6037 MT= 72 (n,n') Level Cross Section 60-Nd-146
 -53.45 To 104.0 %



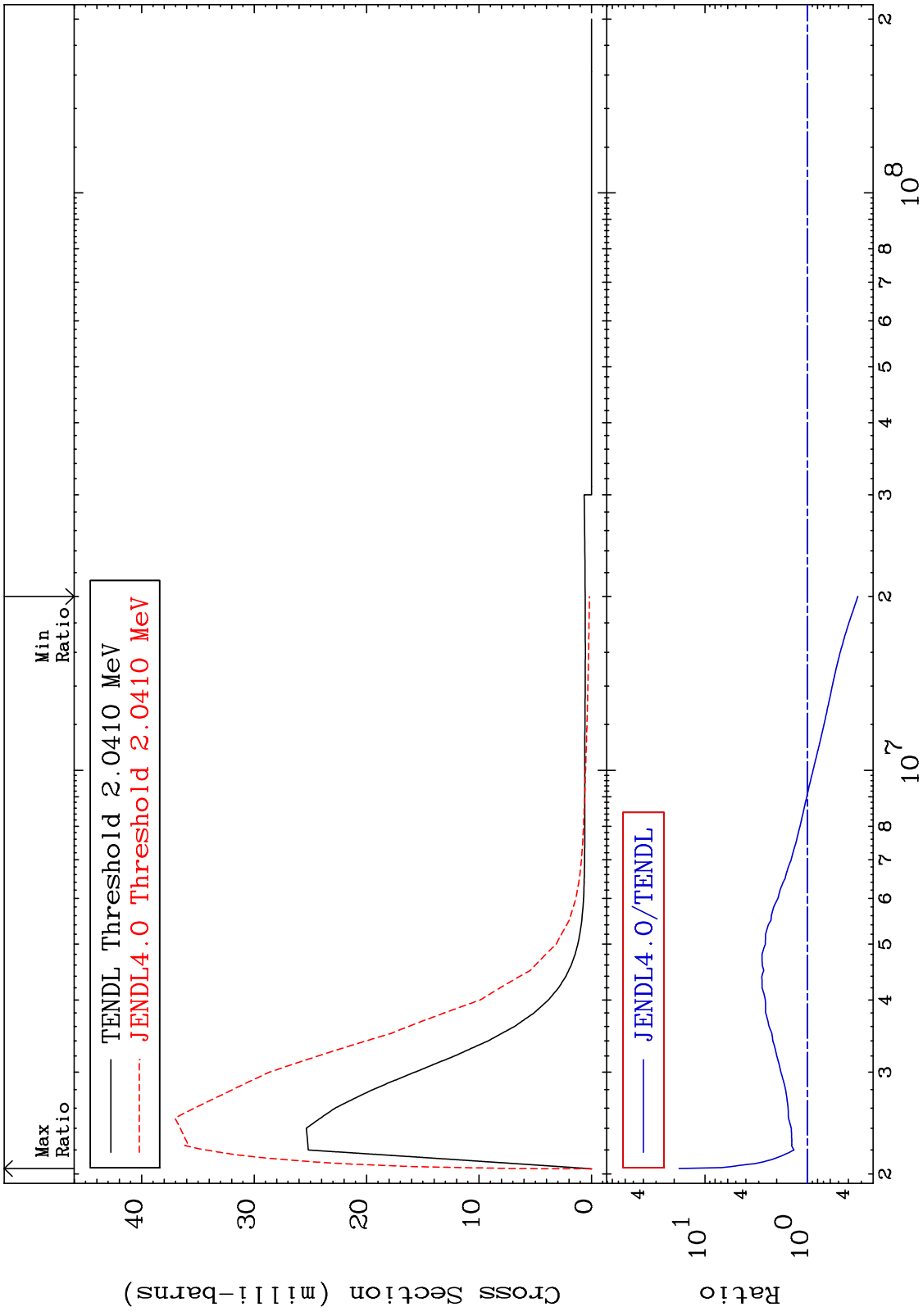
MAT 6037 MT= 73 (n,n') Level Cross Section 60-Nd-146
 -69.94 To 69.27 %



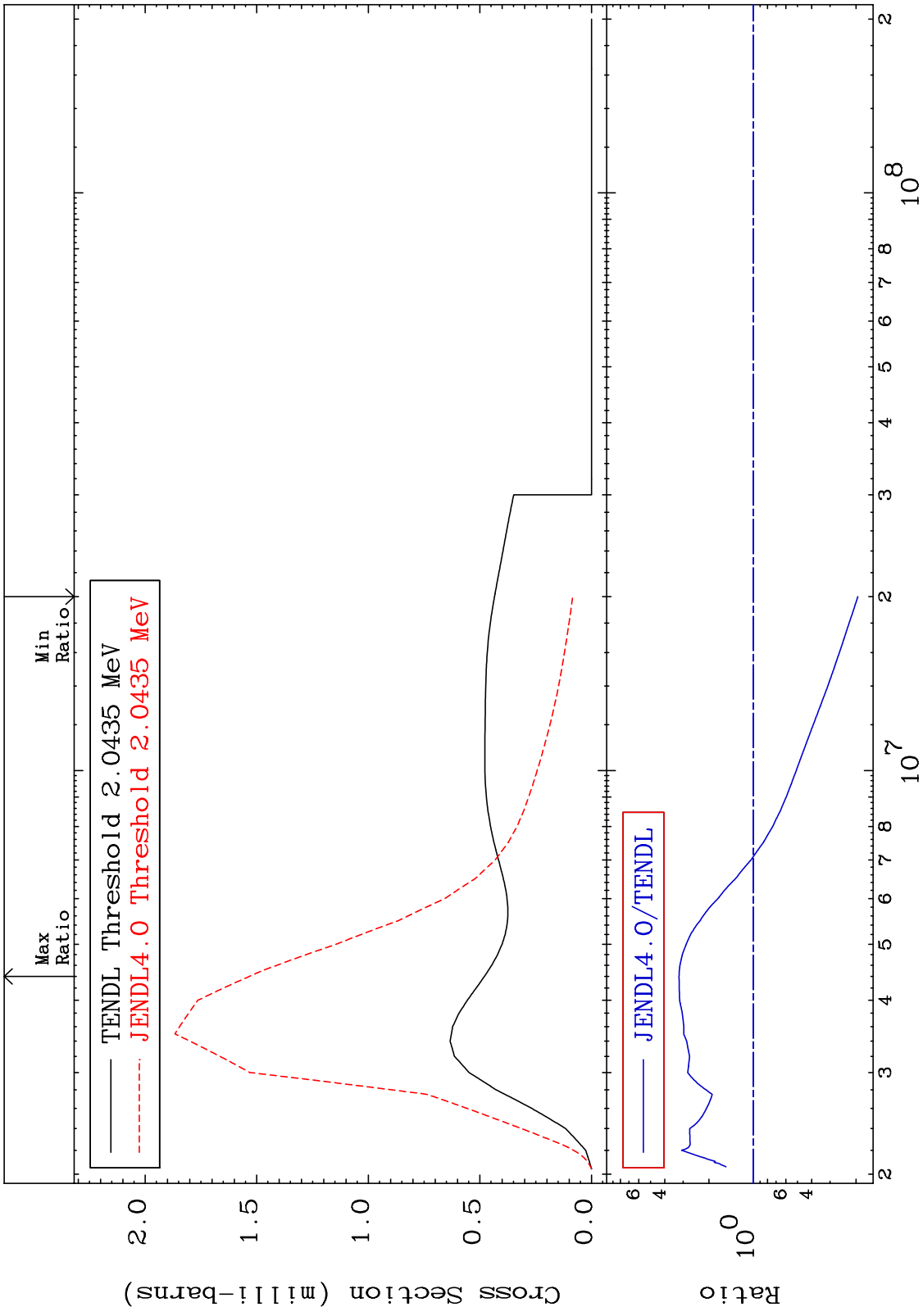
MAT 6037 MT= 74 (n,n') Level Cross Section 60-Nd-146
 -67.10 To 266.0 %



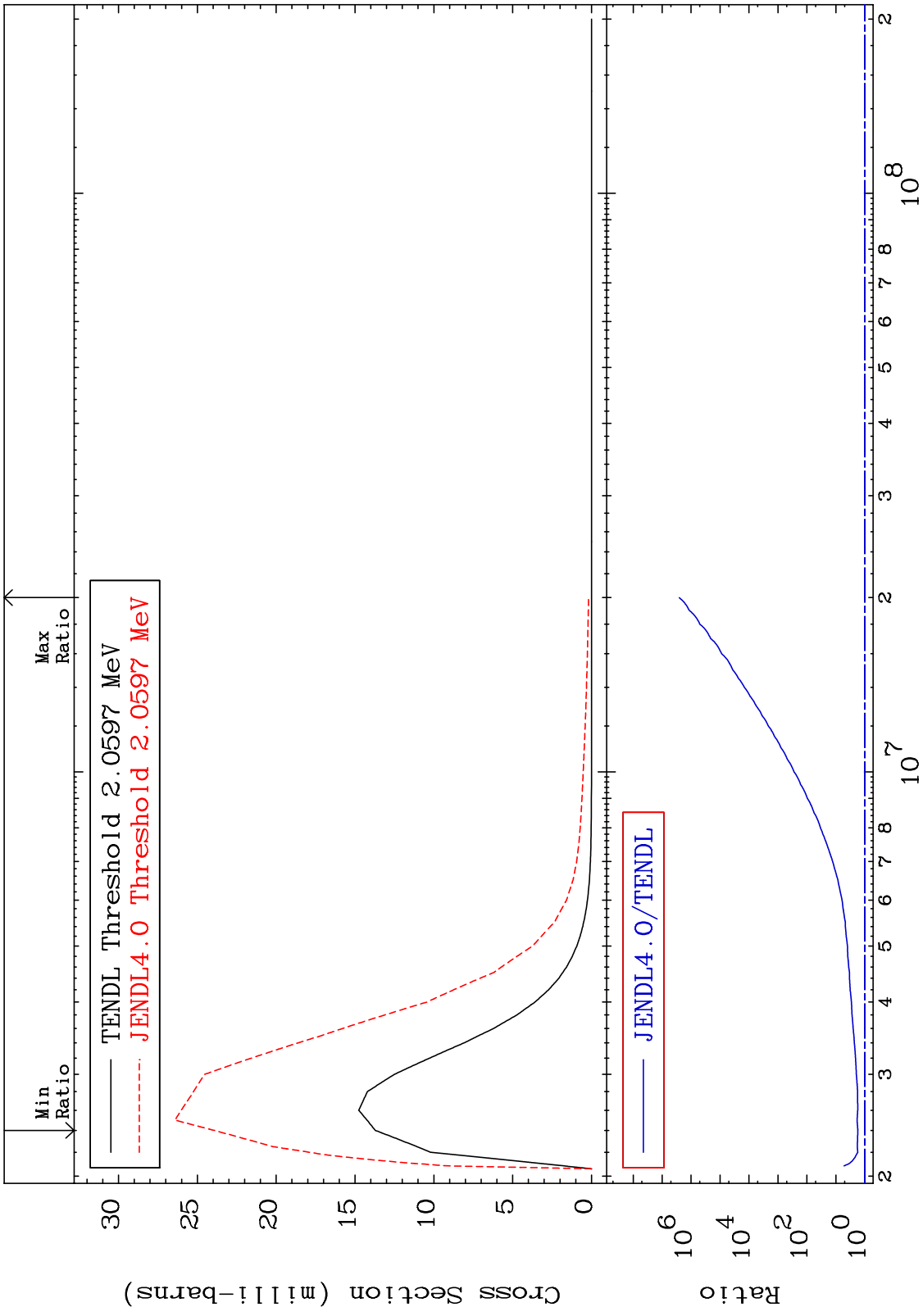
MAT 6037 MT= 75 (n,n') Level Cross Section 60-Nd-146
 -67.63 To 1692. %



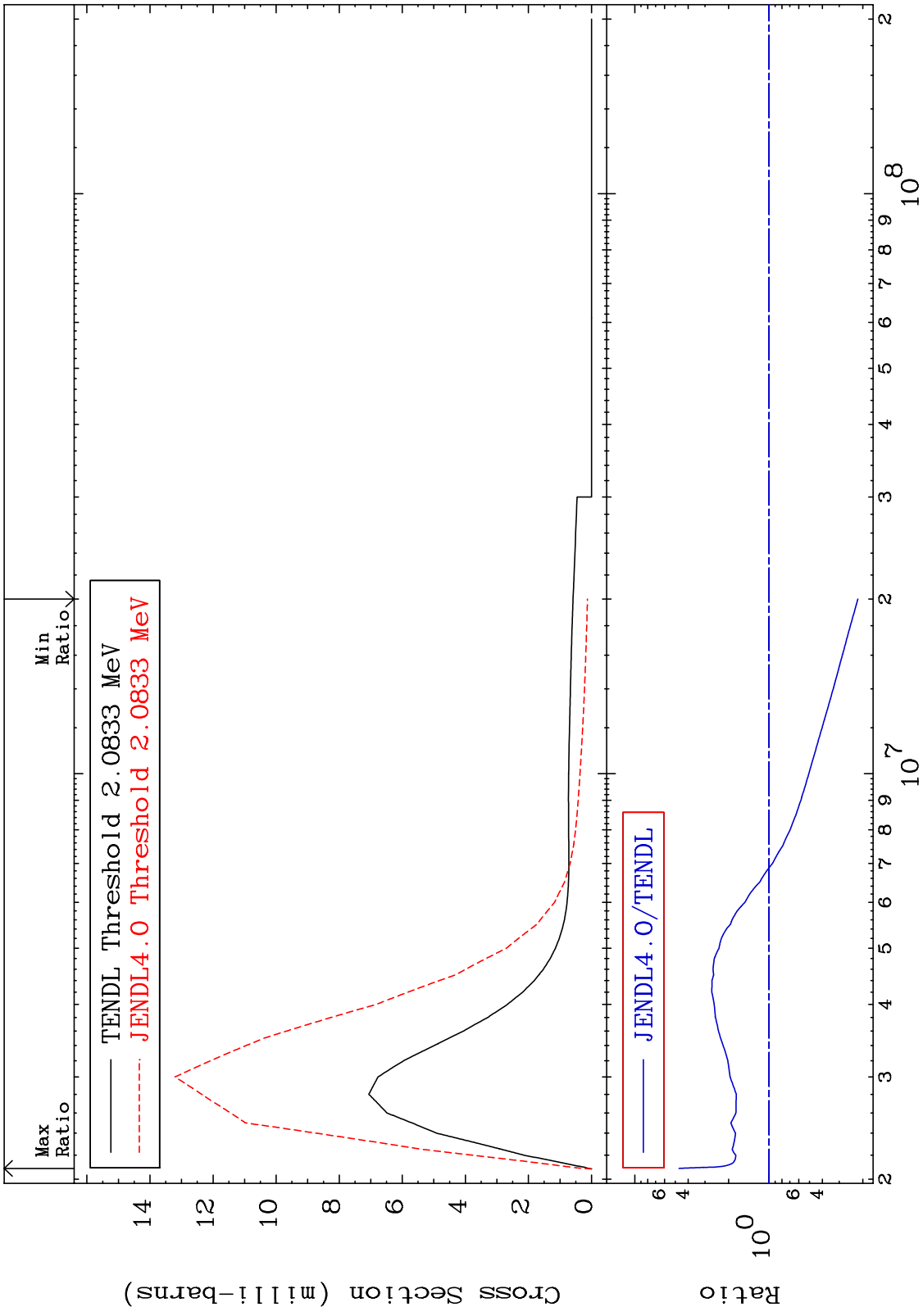
MAT 6037 MT= 76 (n,n') Level Cross Section 60-Nd-146
 -80.56 To 219.7 %



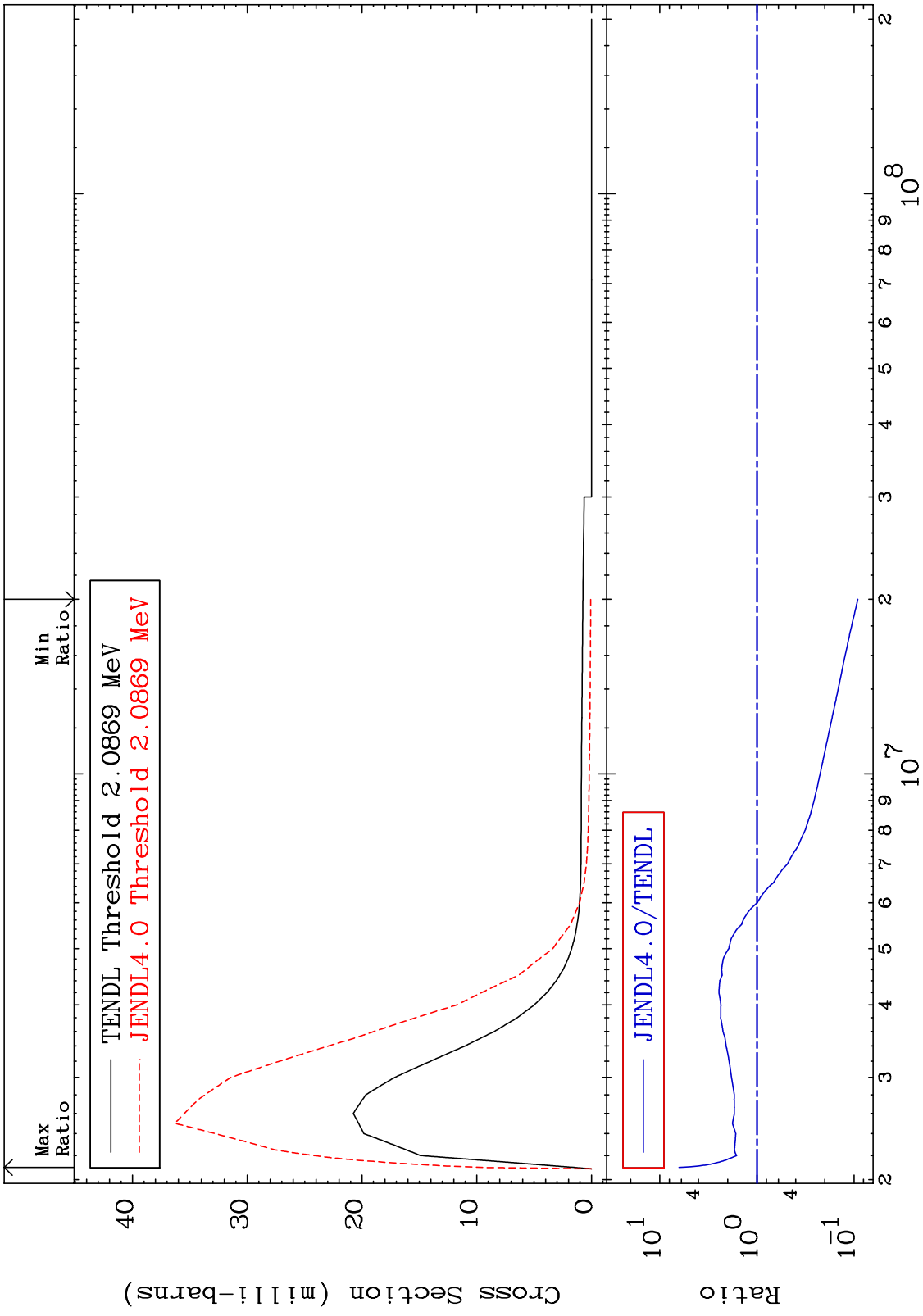
MAT 6037 MT= 77 (n,n') Level Cross Section 60-Nd-146
 74.55 To 9999. %



MAT 6037 MT= 78 (n,n') Level Cross Section 60-Nd-146
 -78.22 To 367.9 %



MAT 6037 MT= 79 (n,n') Level Cross Section 60-Nd-146
 -90.84 To 534.3 %

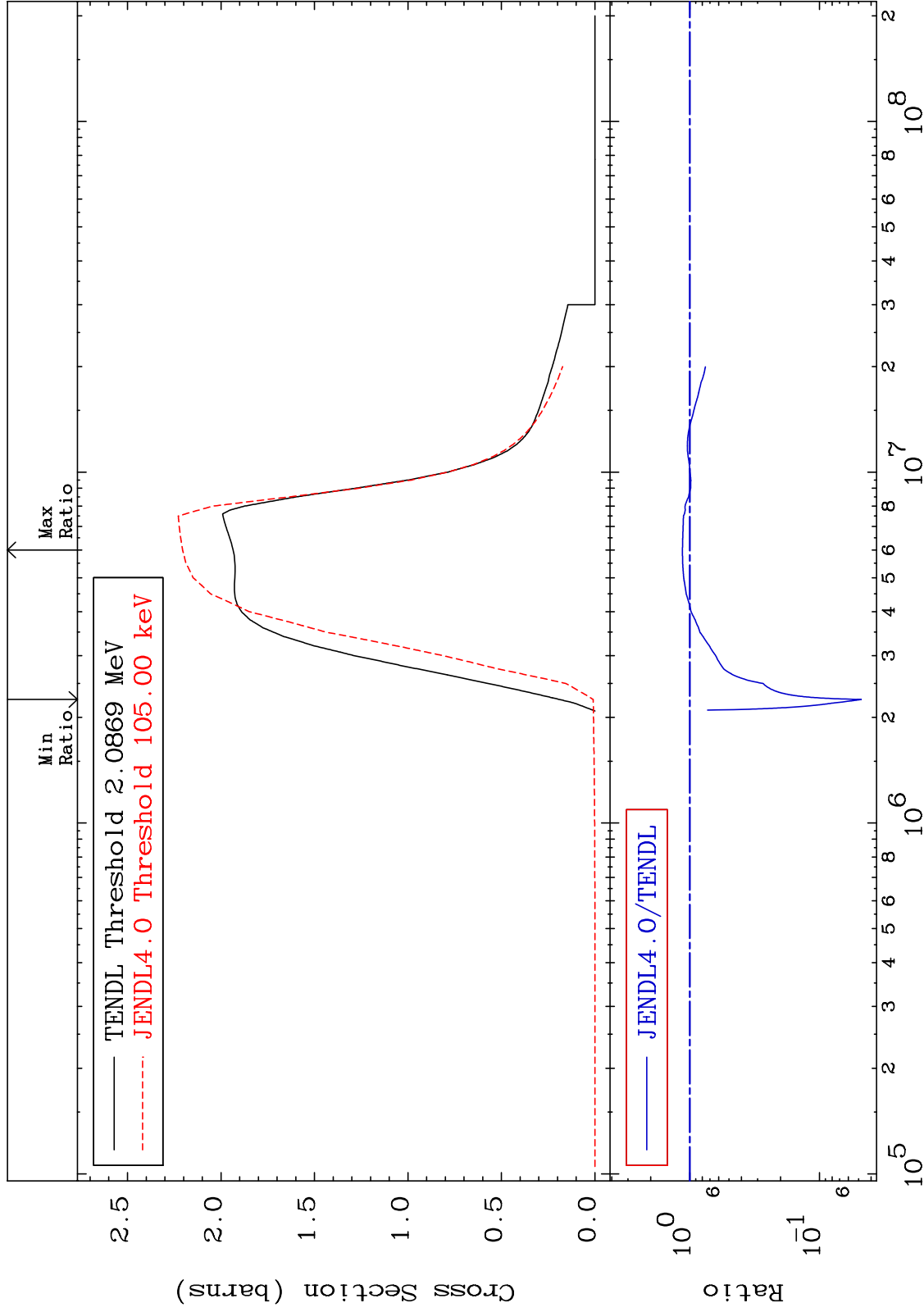


40 Incident Energy (eV) 60-Nd-146

MAT 6037

(n, n') Continuum
Cross Section

60-Nd-146
-95.24 To 13.97 %



41

Incident Energy (eV)

60-Nd-146

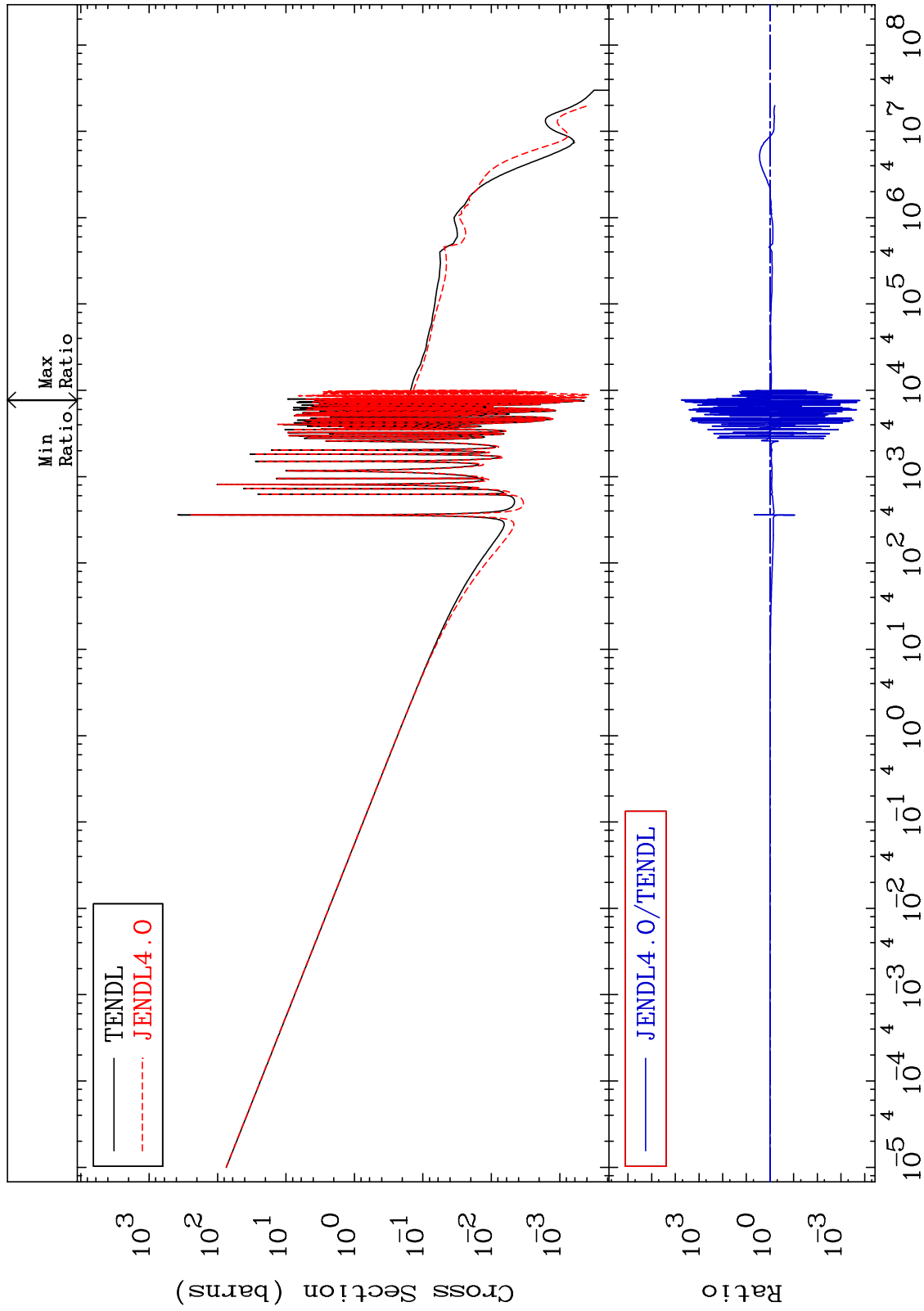
MAT 6037

(n, γ)

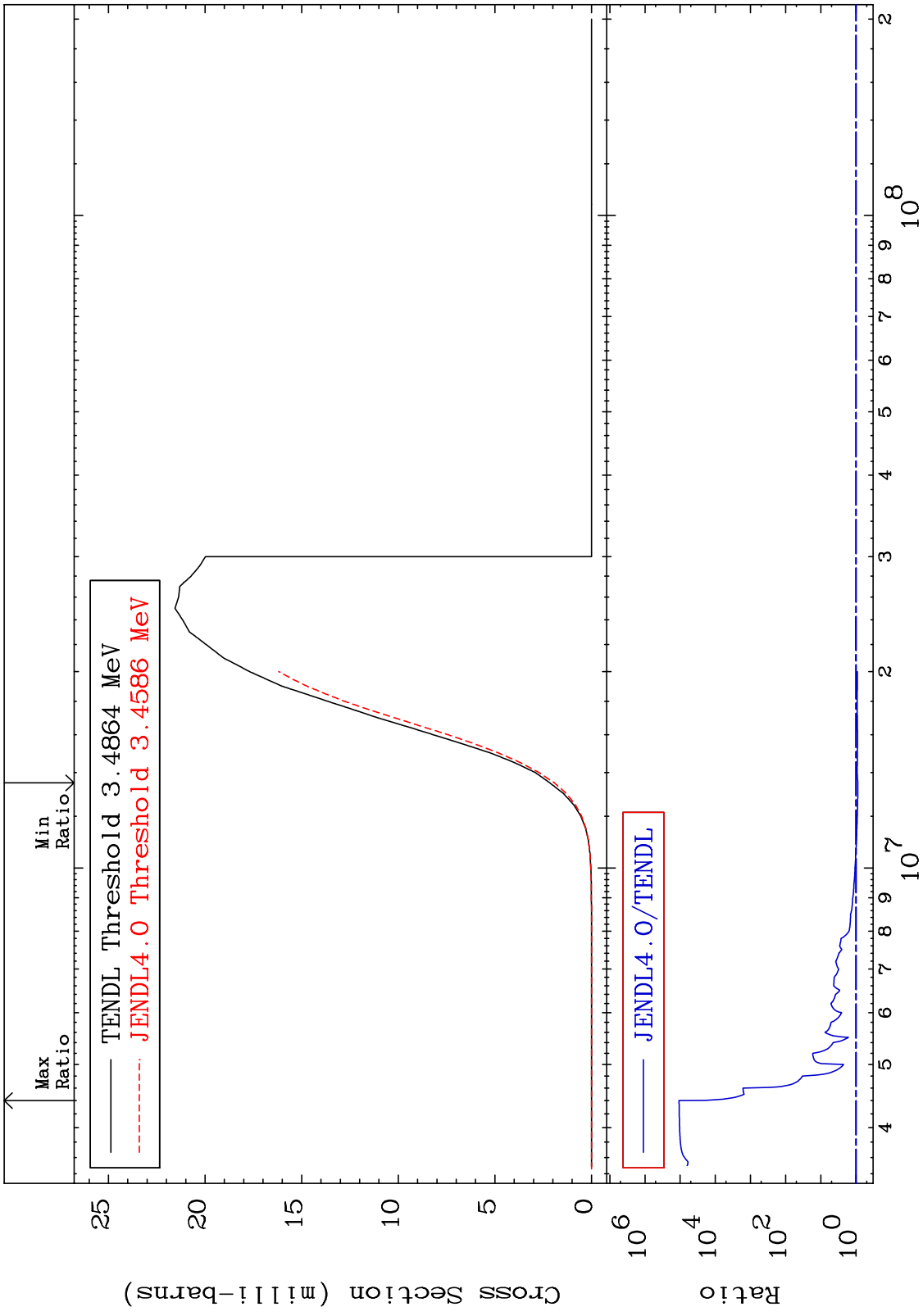
60-Nd-146

Cross Section

-99.98 To 9999. %

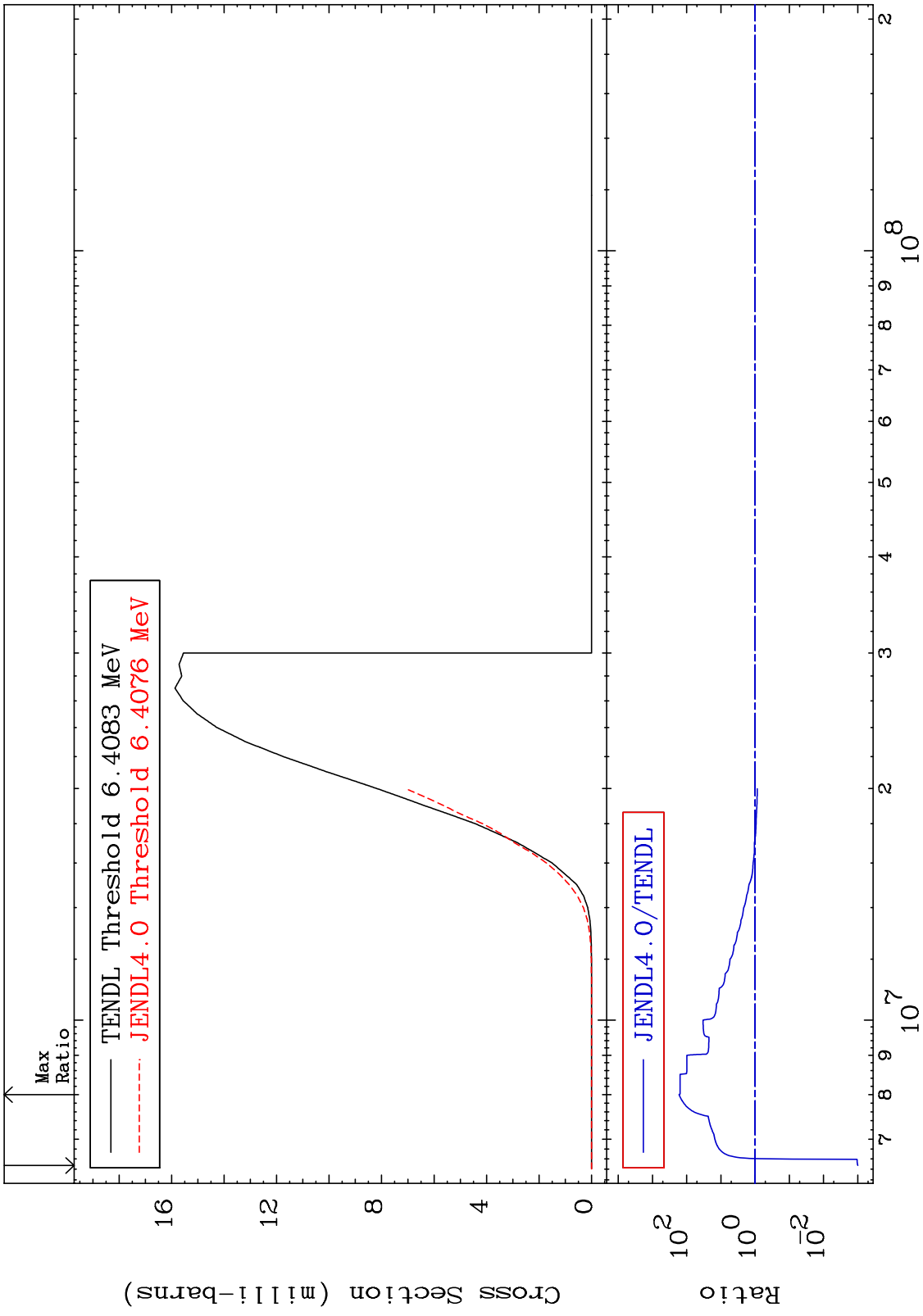


MAT 6037 (n,p) Cross Section 60-Nd-146
 -10.96 To 9999. %



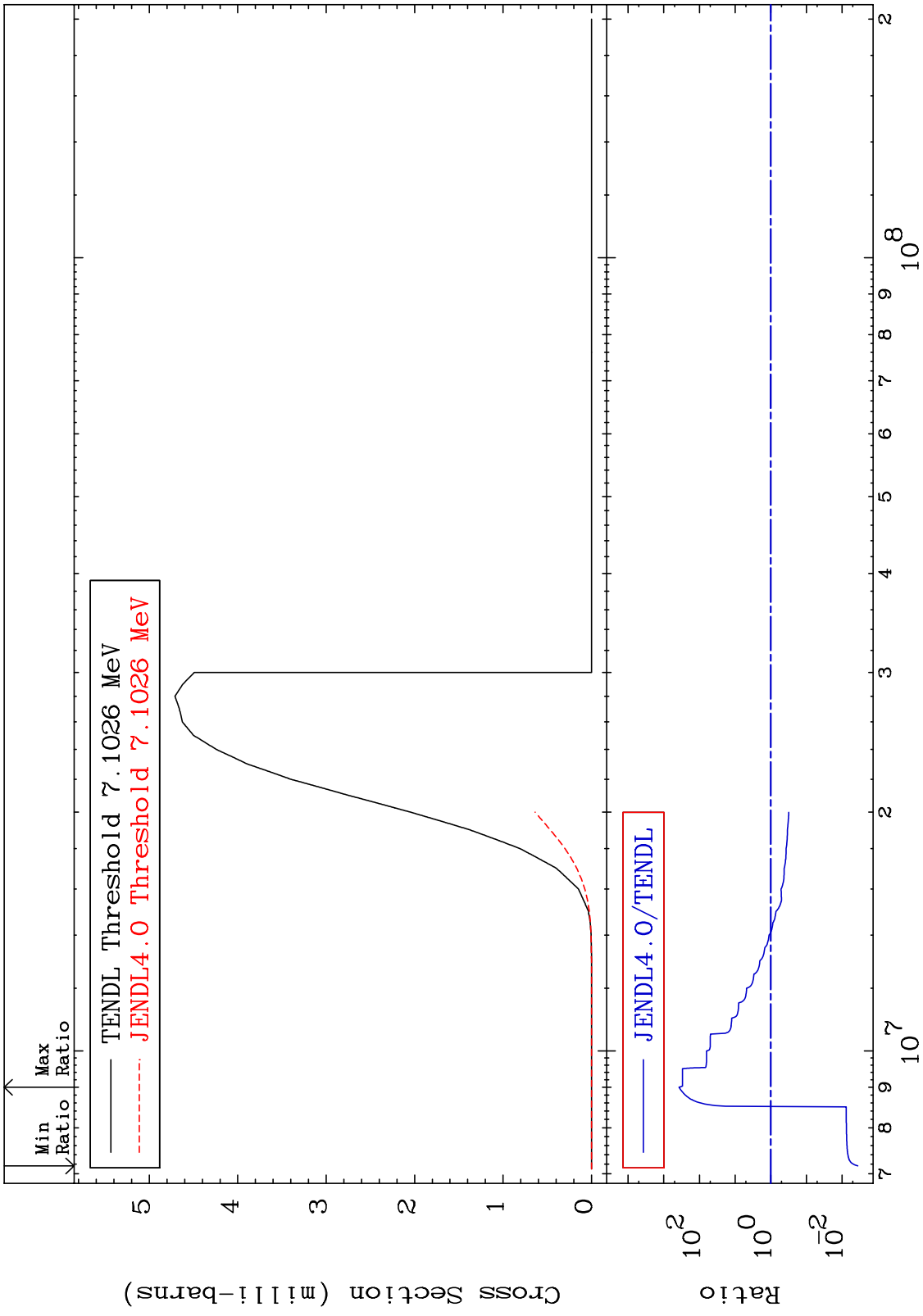
43 Incident Energy (eV) 60-Nd-146

MAT 6037 (n,d) Cross Section 60-Nd-146 -99.90 To 9999. %

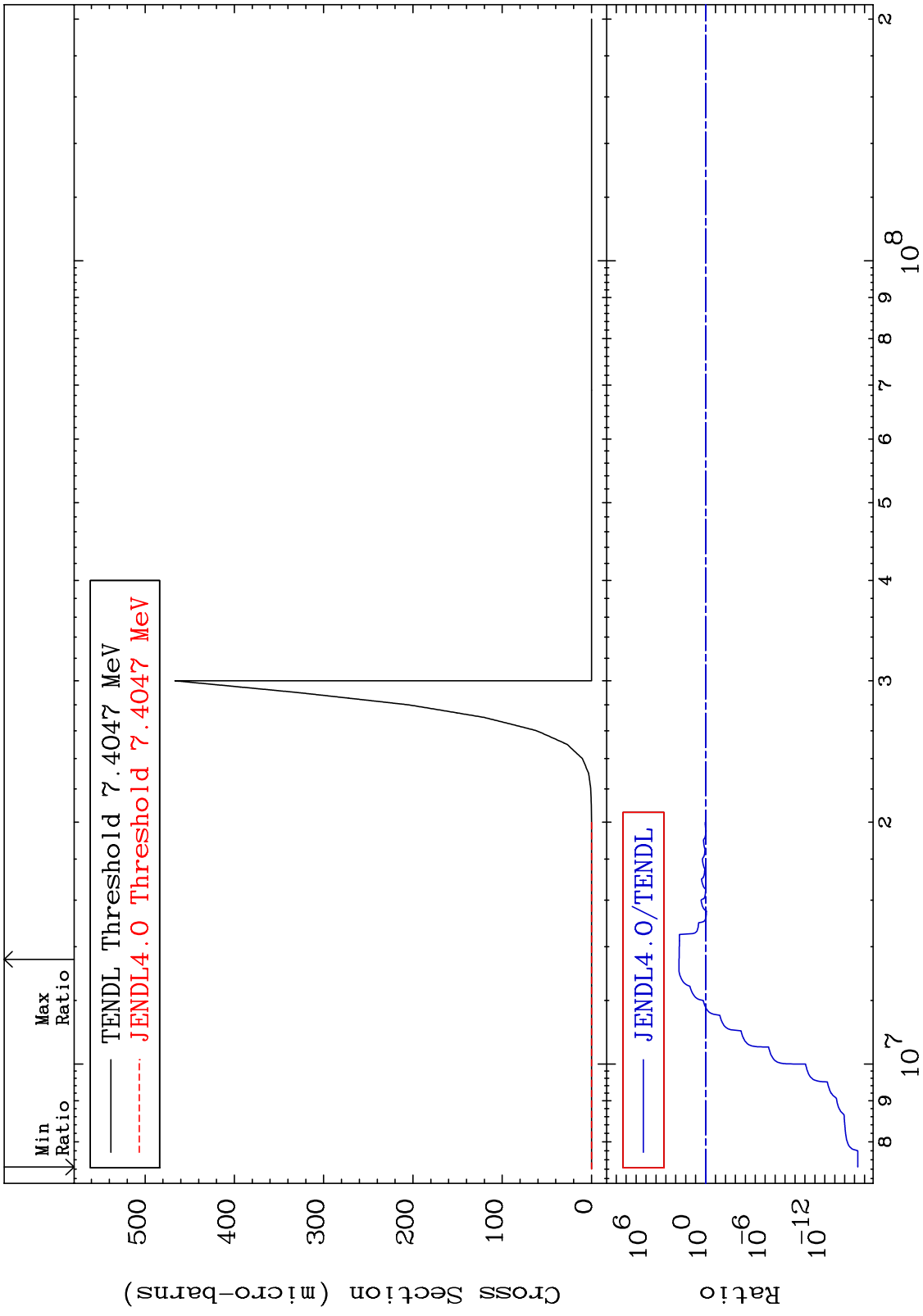


44 60-Nd-146 Incident Energy (eV)

MAT 6037 (n,t) 60-Nd-146
 Cross Section -99.64 To 9999. %



MAT 6037 (n,He-3) 60-Nd-146
 Cross Section -100.0 To 9999. %

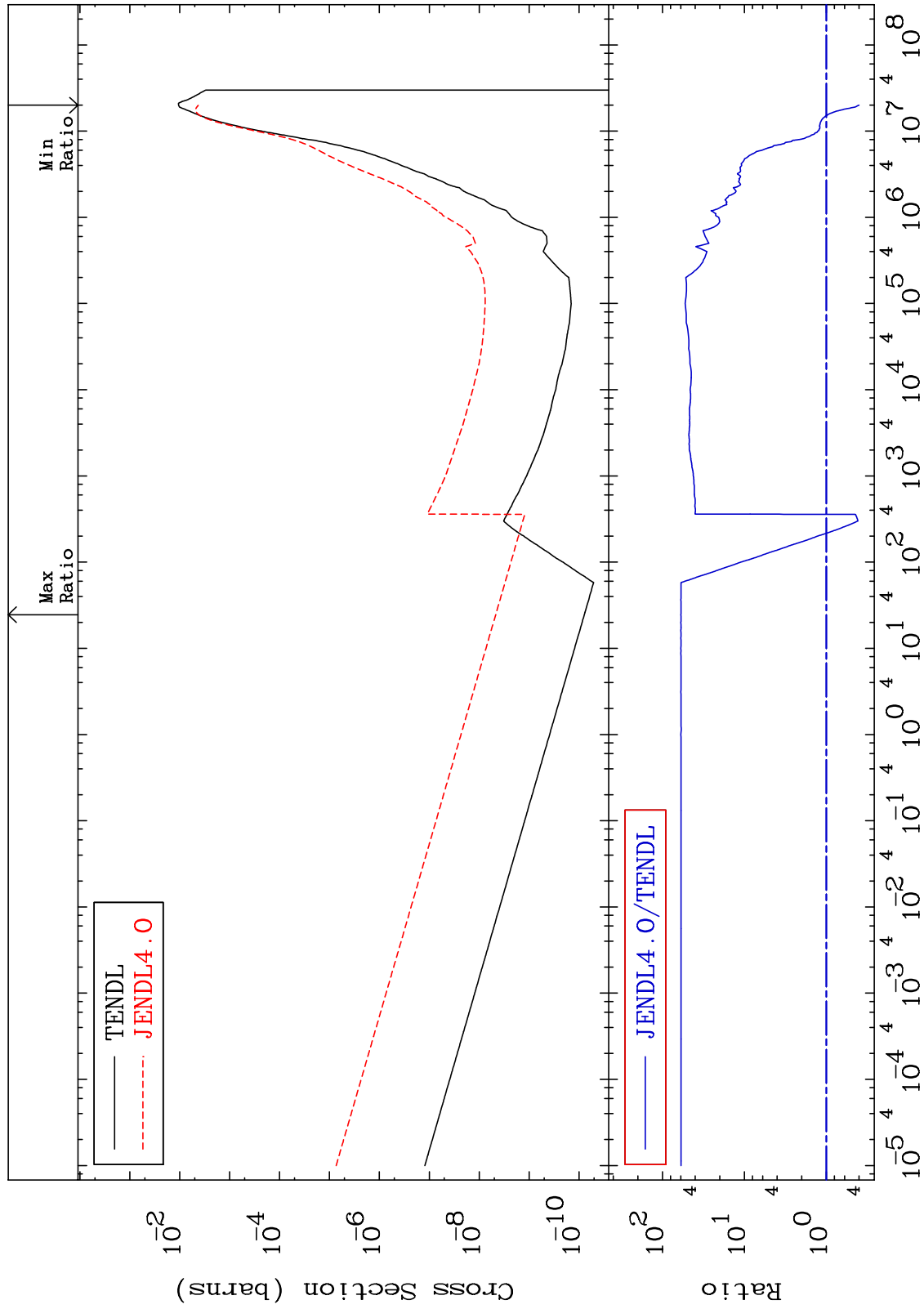


MAT 6037

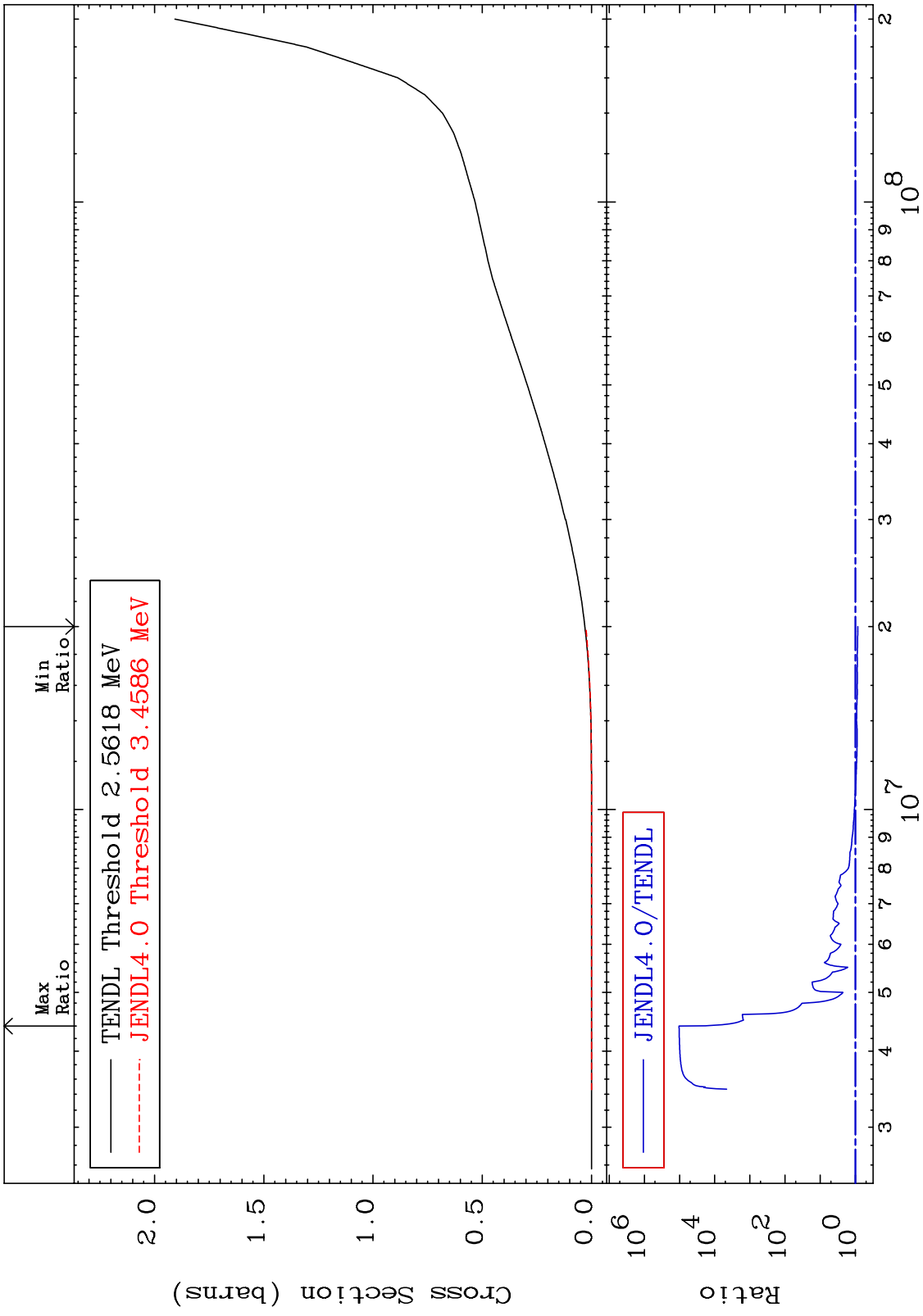
(n, α)

Cross Section

60-Nd-146
-60.04 To 5880. %



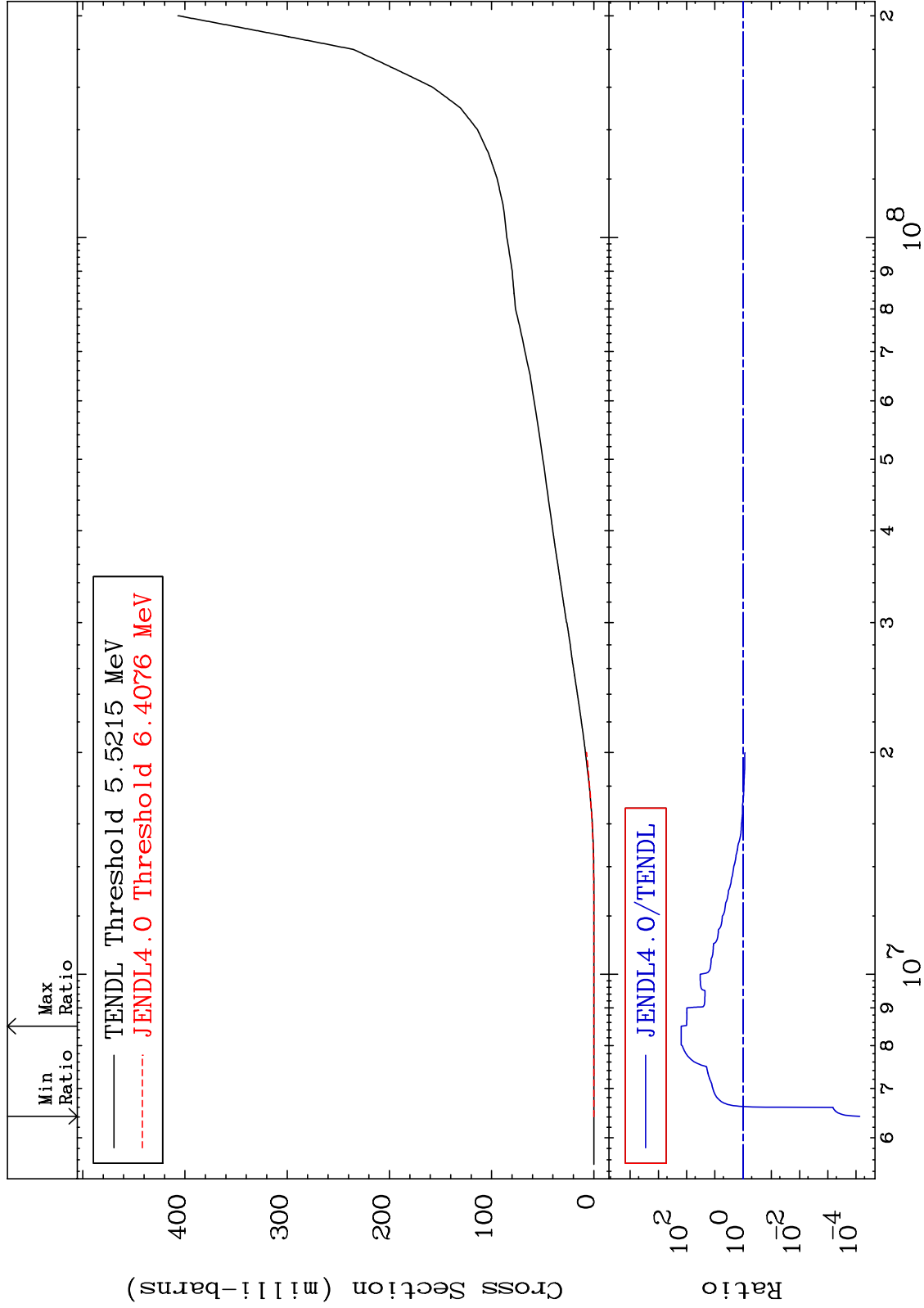
MAT 6037 Hydrogen Production Cross Section 60-Nd-146
 -14.53 To 9999. %



MAT 6037

Deuterium Production
Cross Section

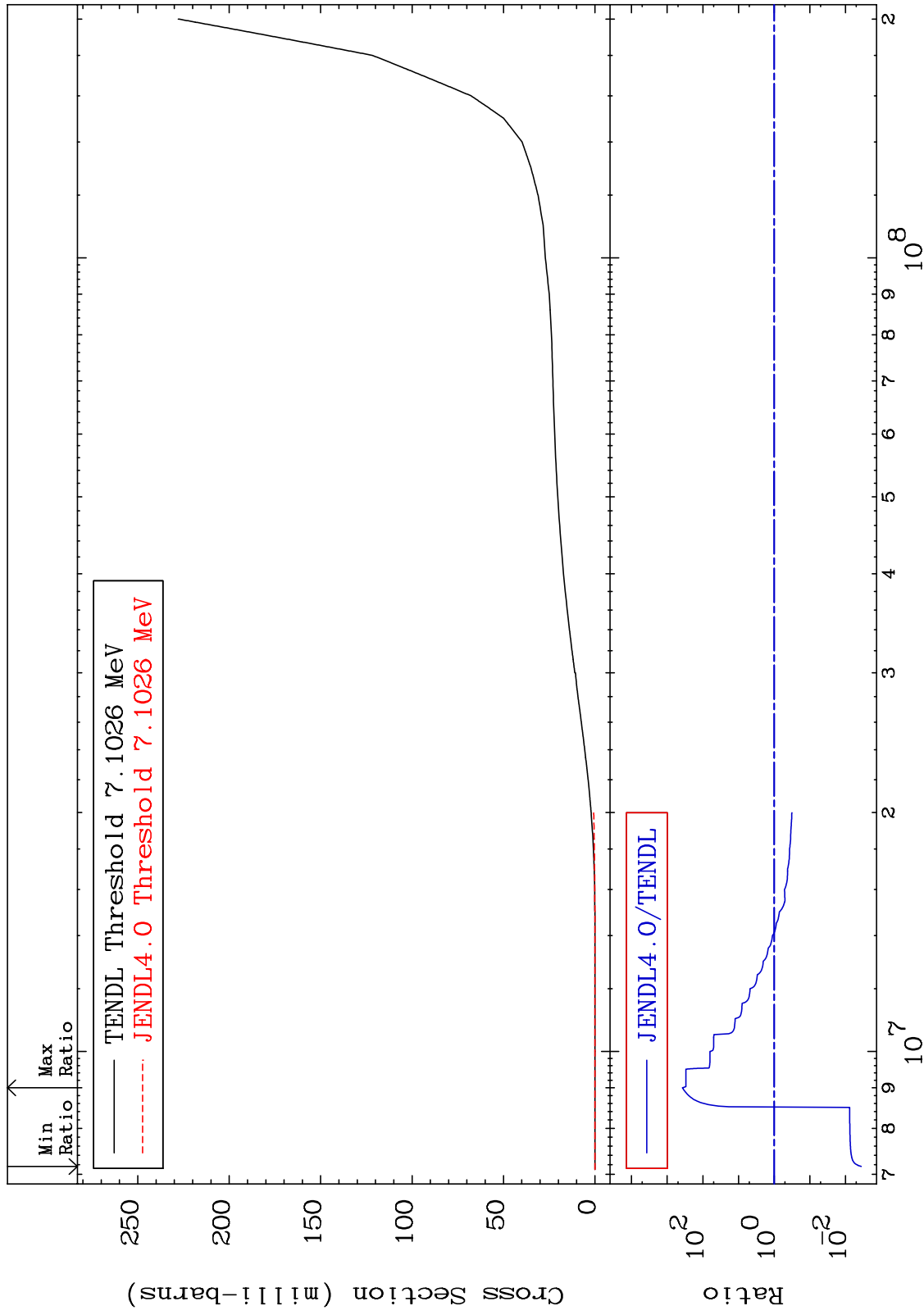
60-Nd-146
-99.99 To 9999. %



MAT 6037

Tritium Production
Cross Section

60-Nd-146
-99.64 To 9999. %



50

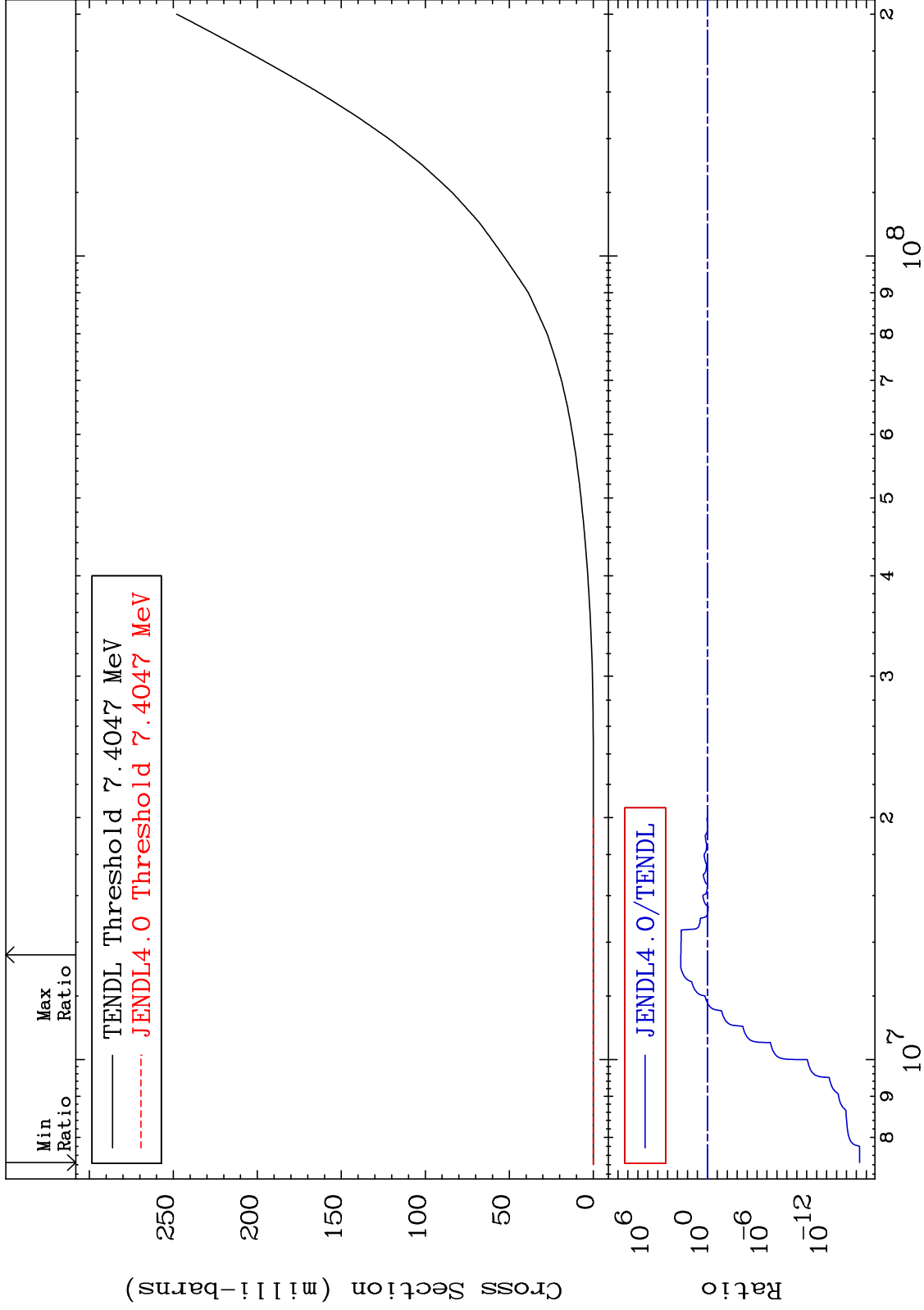
Incident Energy (eV)

60-Nd-146

MAT 6037

He-3 Production
Cross Section

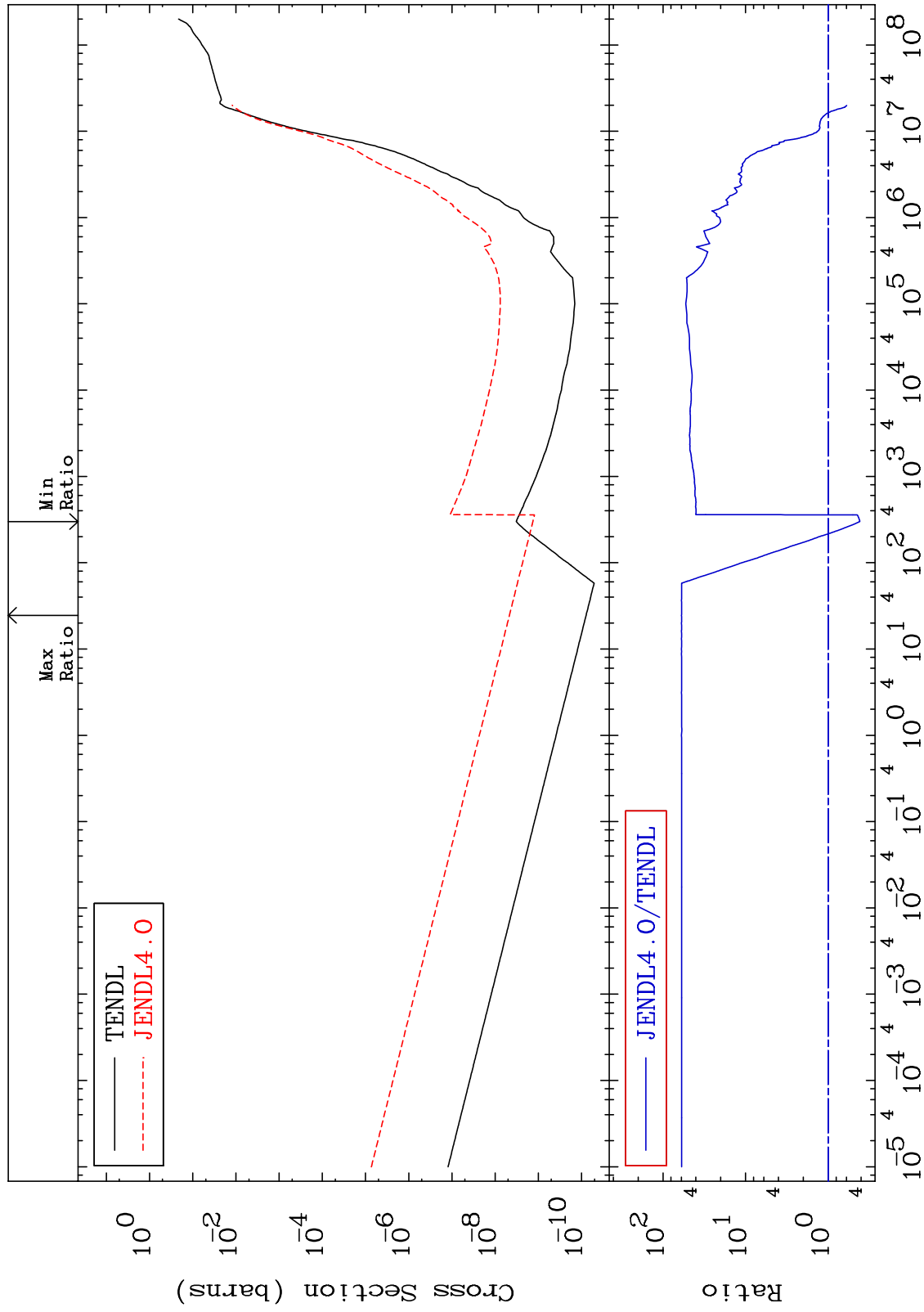
60-Nd-146
-100.0 To 9999. %



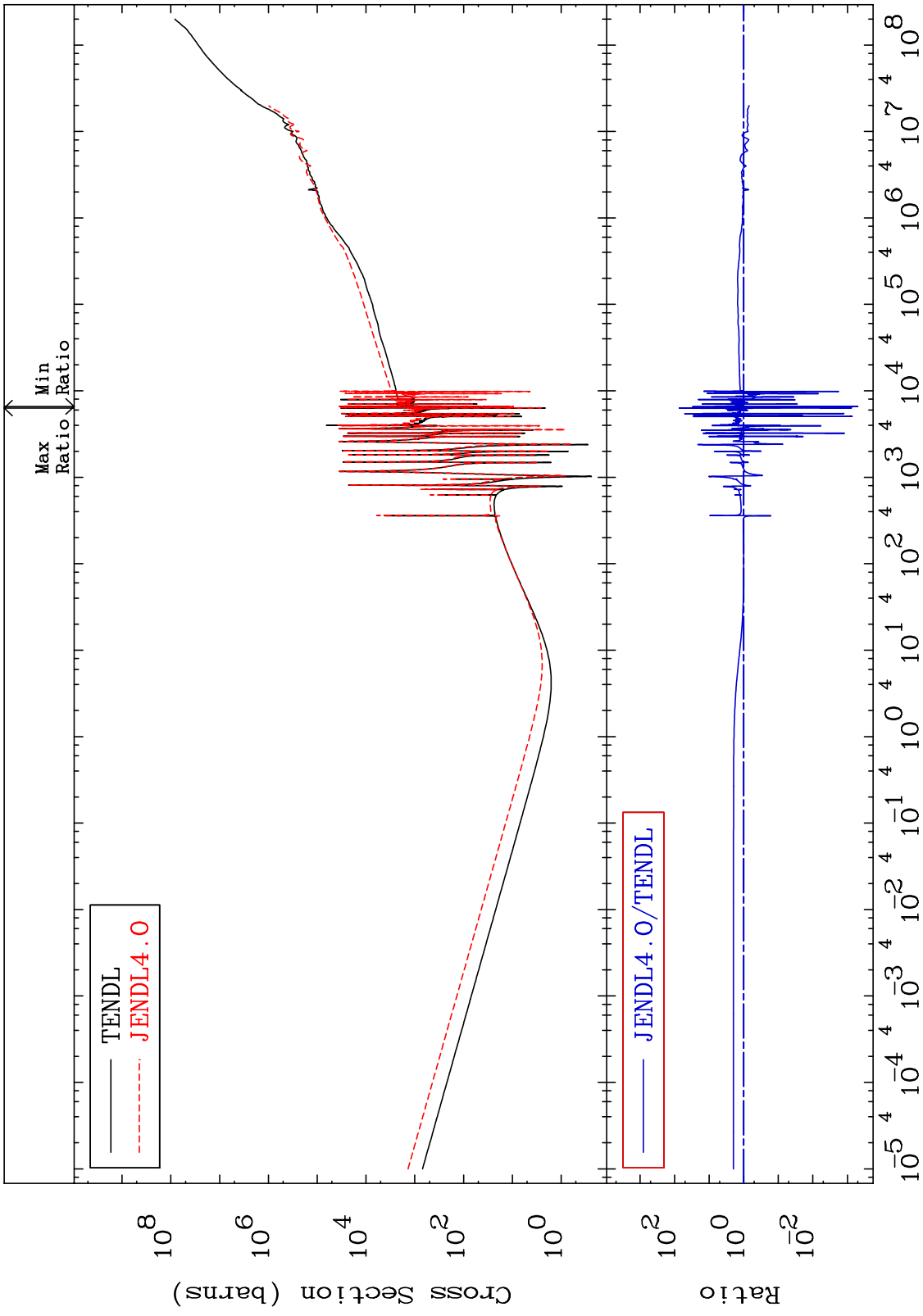
MAT 6037

He-4 Production
Cross Section

60-Nd-146
-58.65 To 5880. %



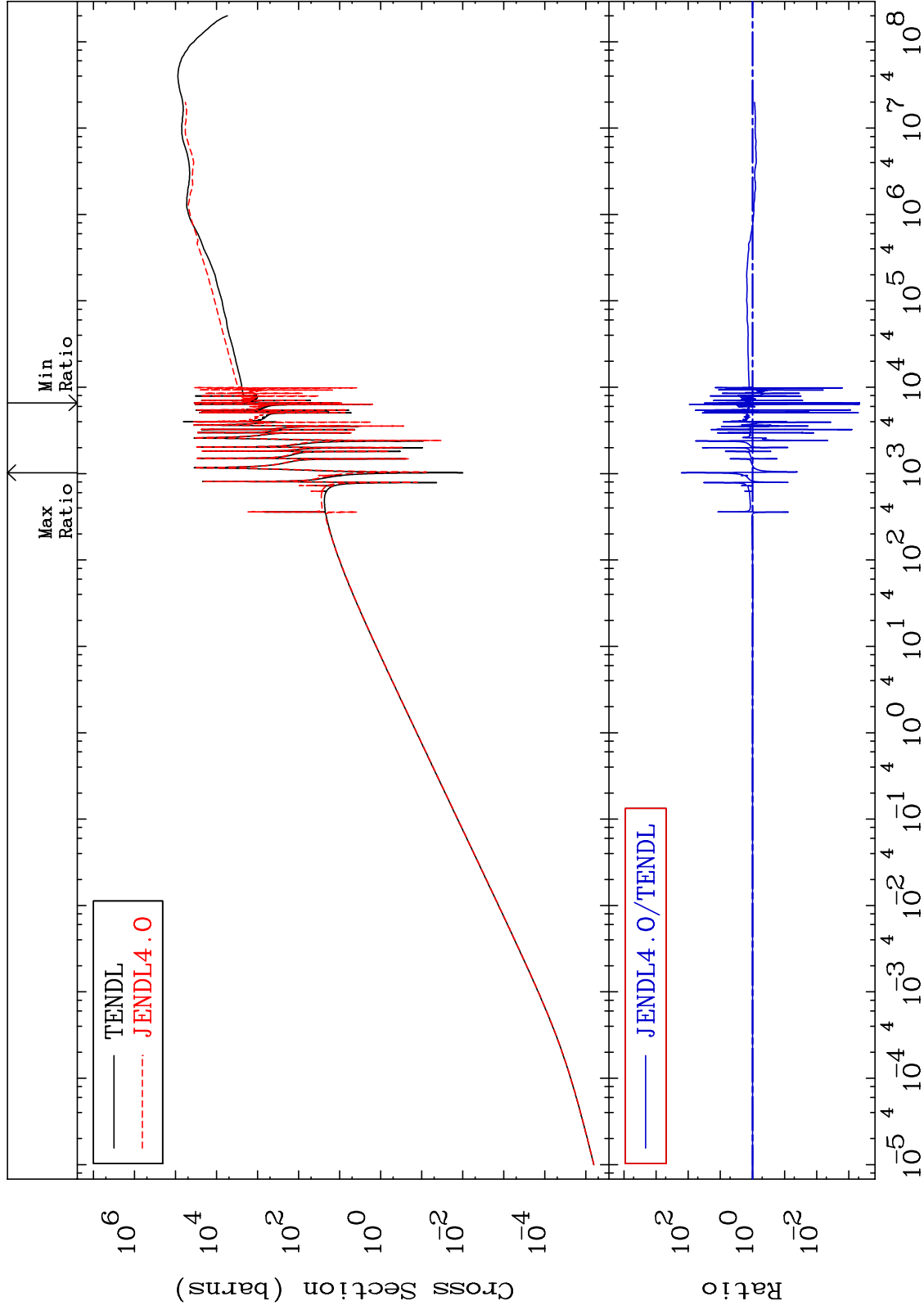
MAT 6037 Kerma total (eV-barns)
 Cross Section -99.95 To 7360. % 60-Nd-146



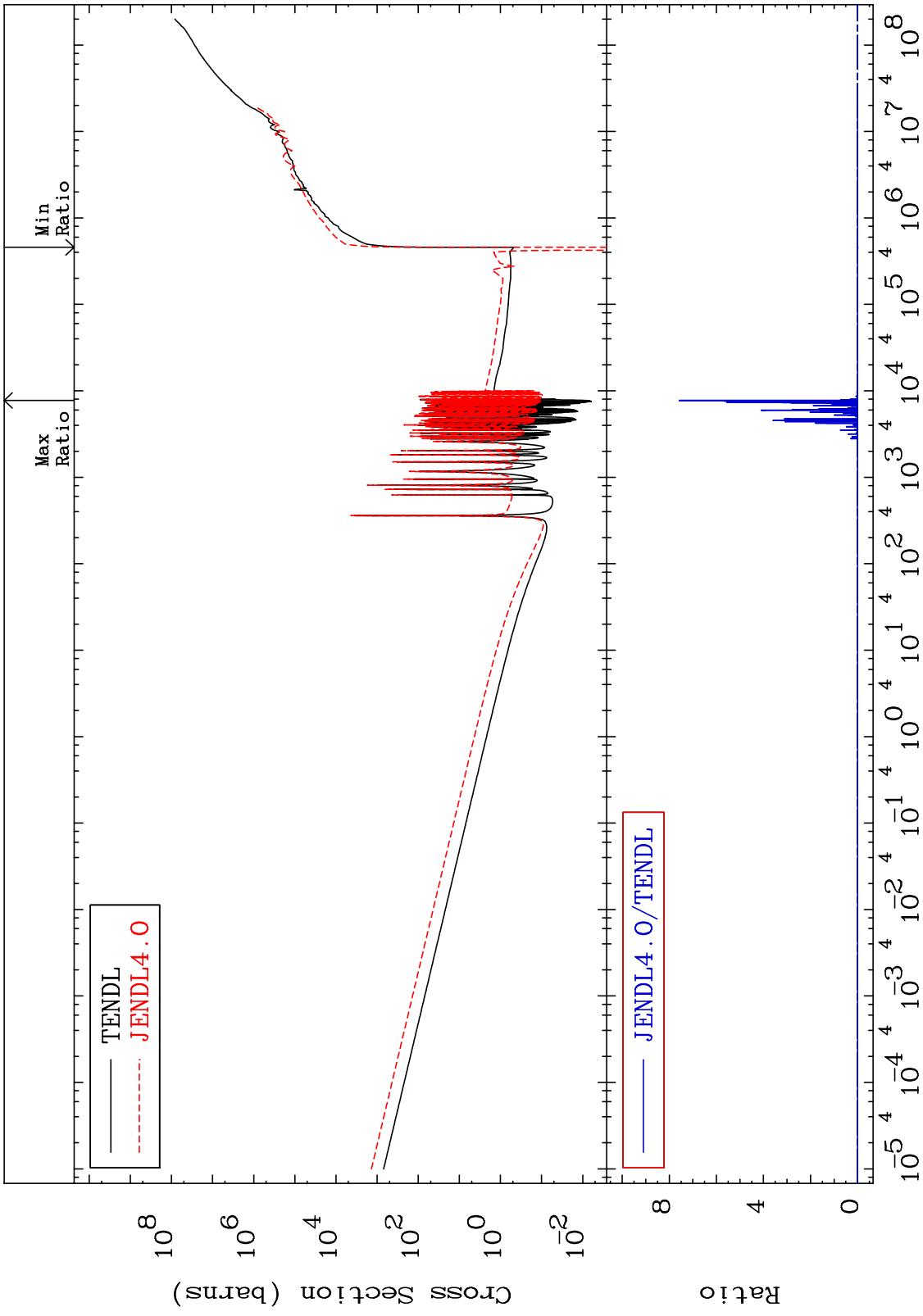
MAT 6037

Kerma elastic
Cross Section

60-Nd-146
-99.95 To 9999. %



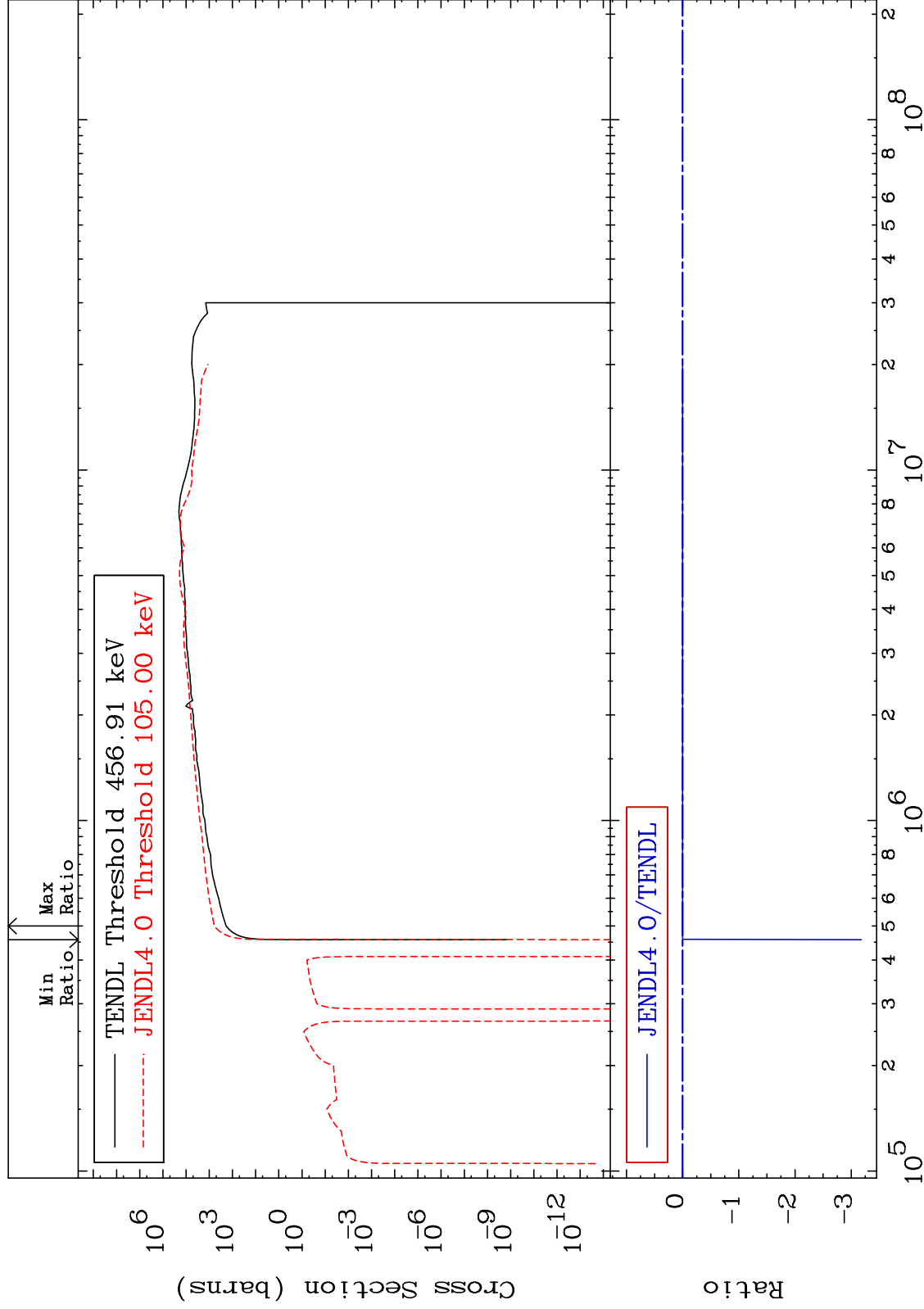
MAT 6037 Kerma non-elastic (all but mt.2) 60-Nd-146
 Cross Section -963.2 To 9999. %



MAT 6037

Kerma inelastic (mt51-91)
Cross Section

60-Nd-146
-9999. To 224.6 %



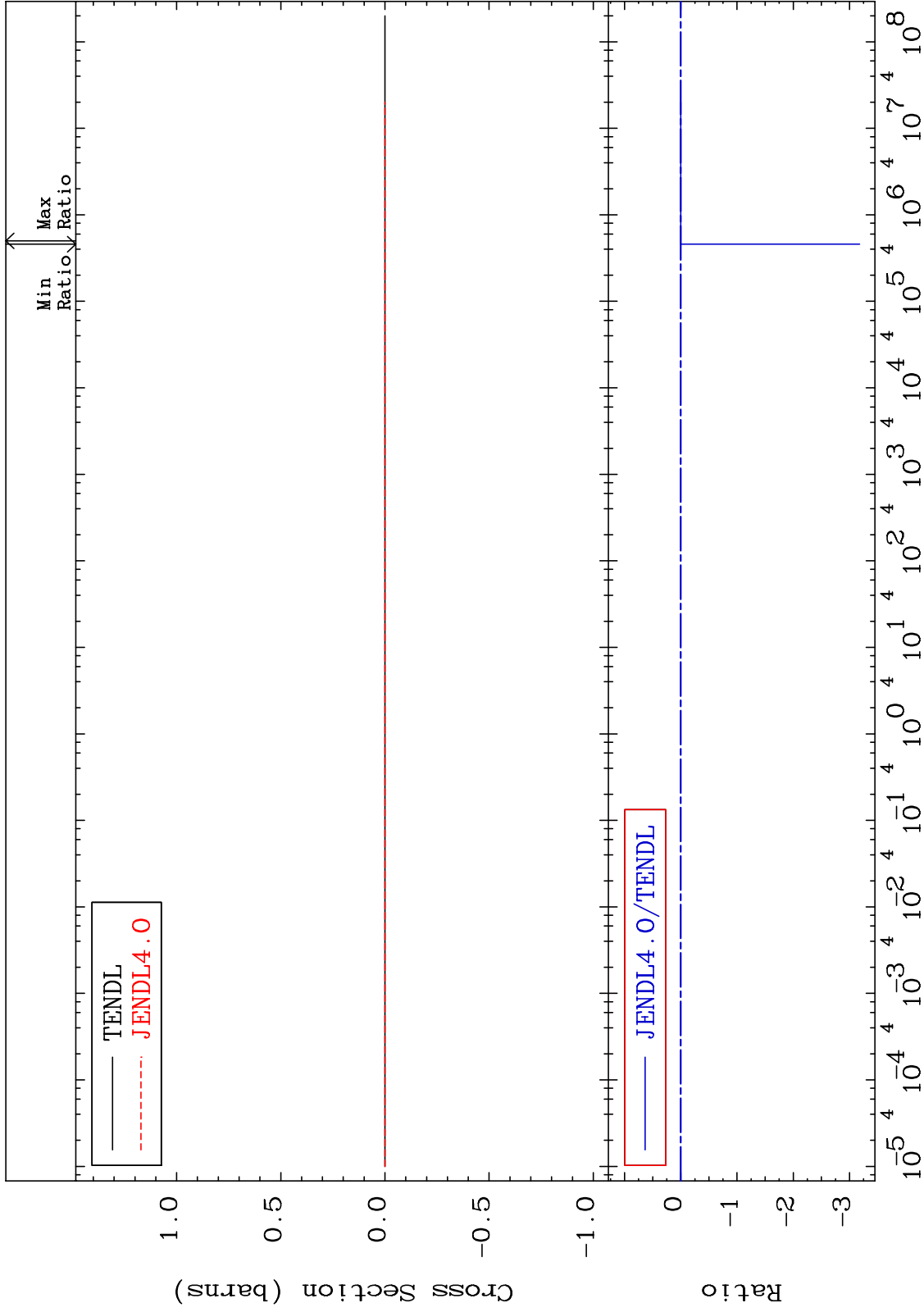
56

60-Nd-146

MAT 6037

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

60-Nd-146
-9999. To 224.6 %



57

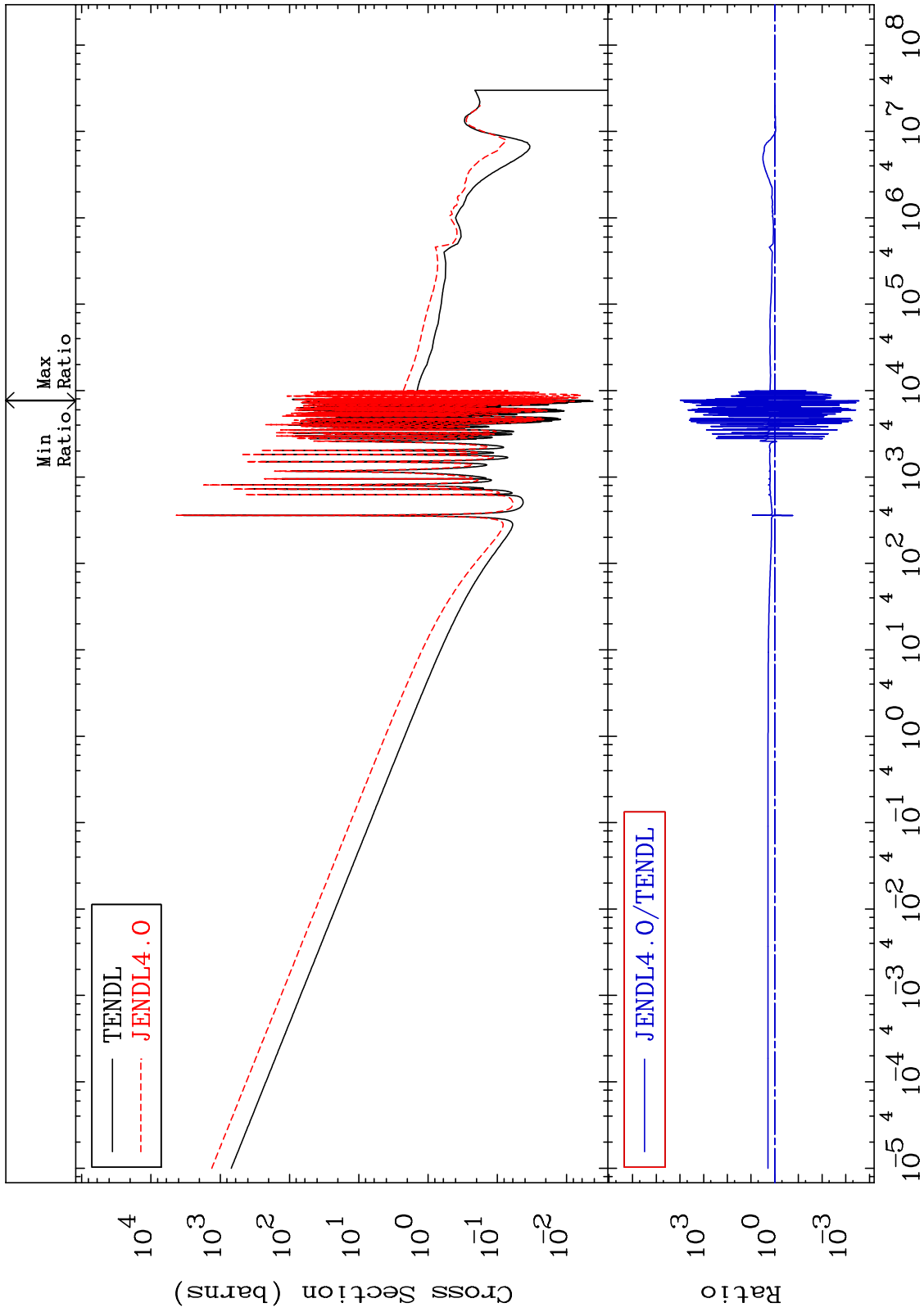
Incident Energy (eV)

60-Nd-146

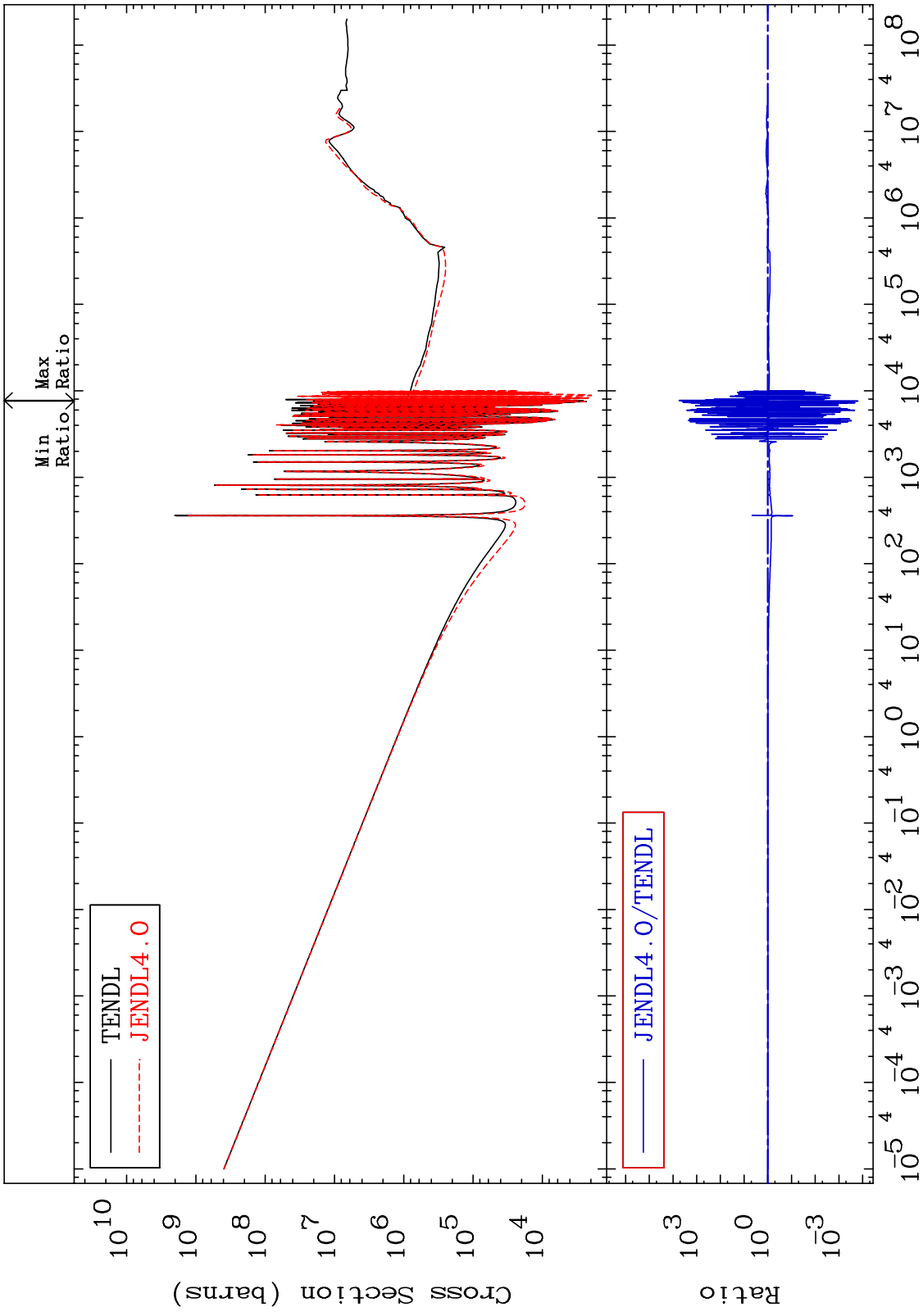
MAT 6037

Kerma capture (mt102)
Cross Section

60-Nd-146
-99.97 To 9999. %

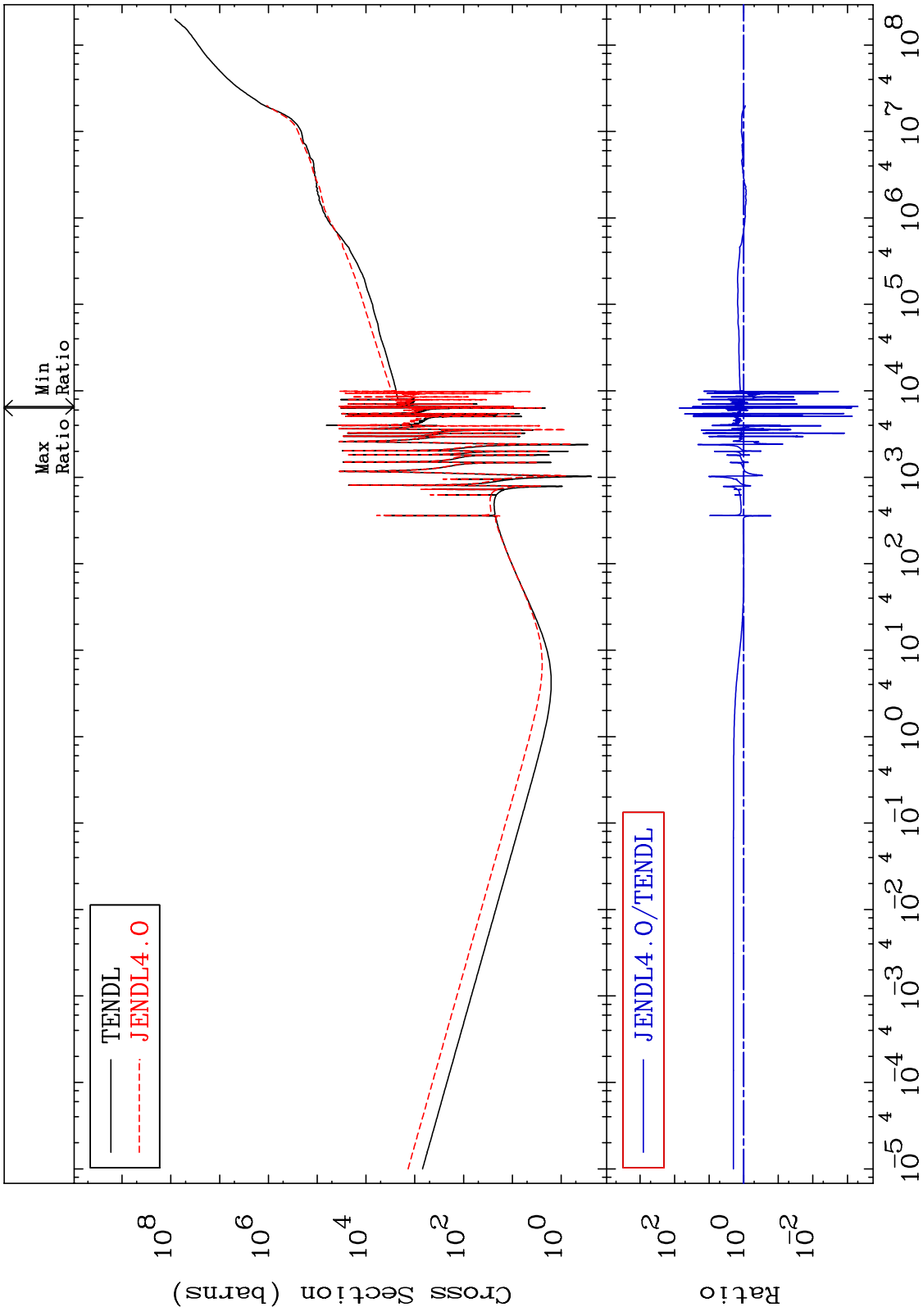


MAT 6037 60-Nd-146
-99.98 To 9999. %
 Total photon (eV-barns)
 Cross Section



59 Incident Energy (eV) 60-Nd-146

MAT 6037 Total kinematic kerma (high limit) 60-Nd-146
Cross Section -99.95 To 7360. %

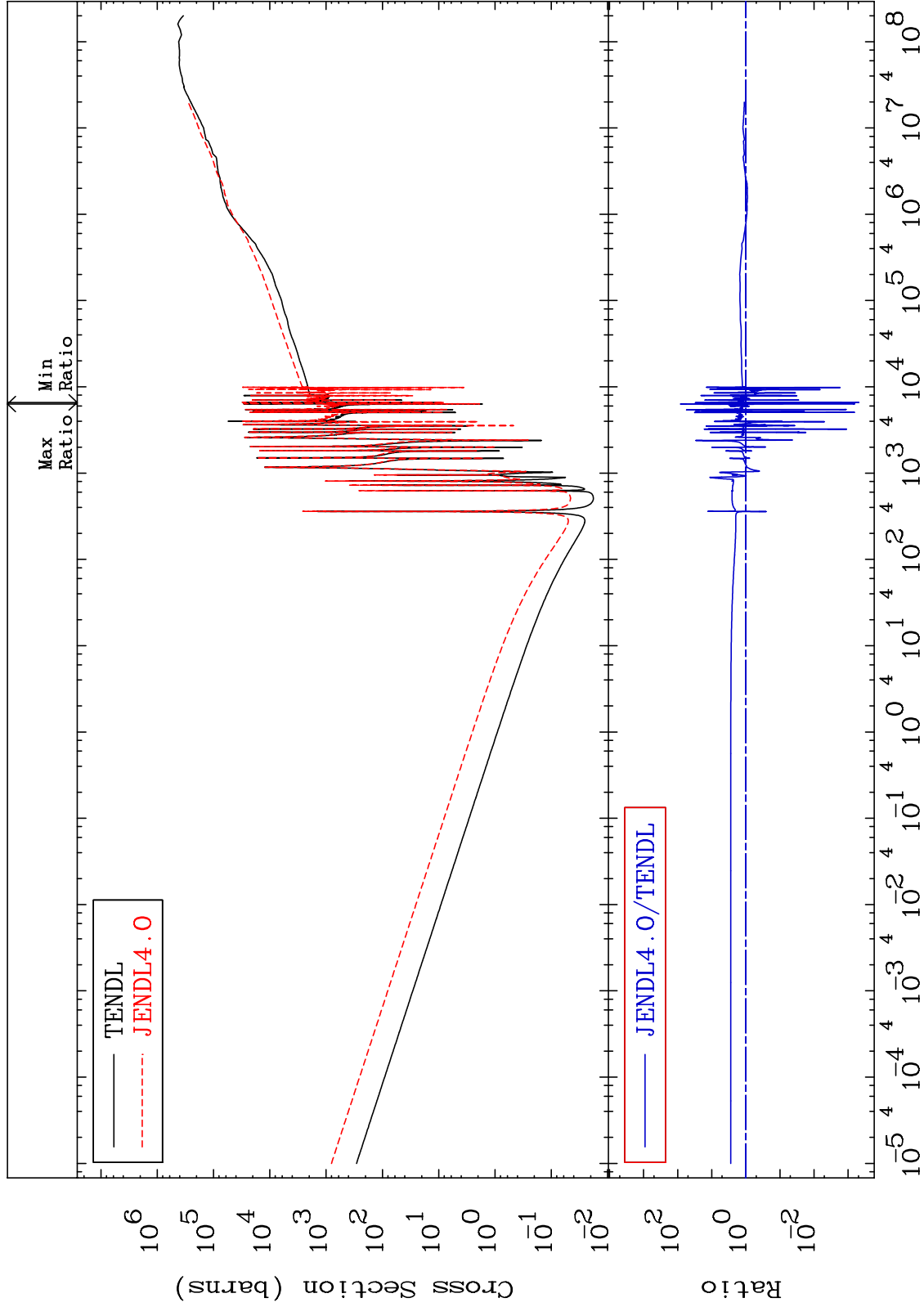


60 60-Nd-146

MAT 6037

Dpa total (eV-barns)
Cross Section

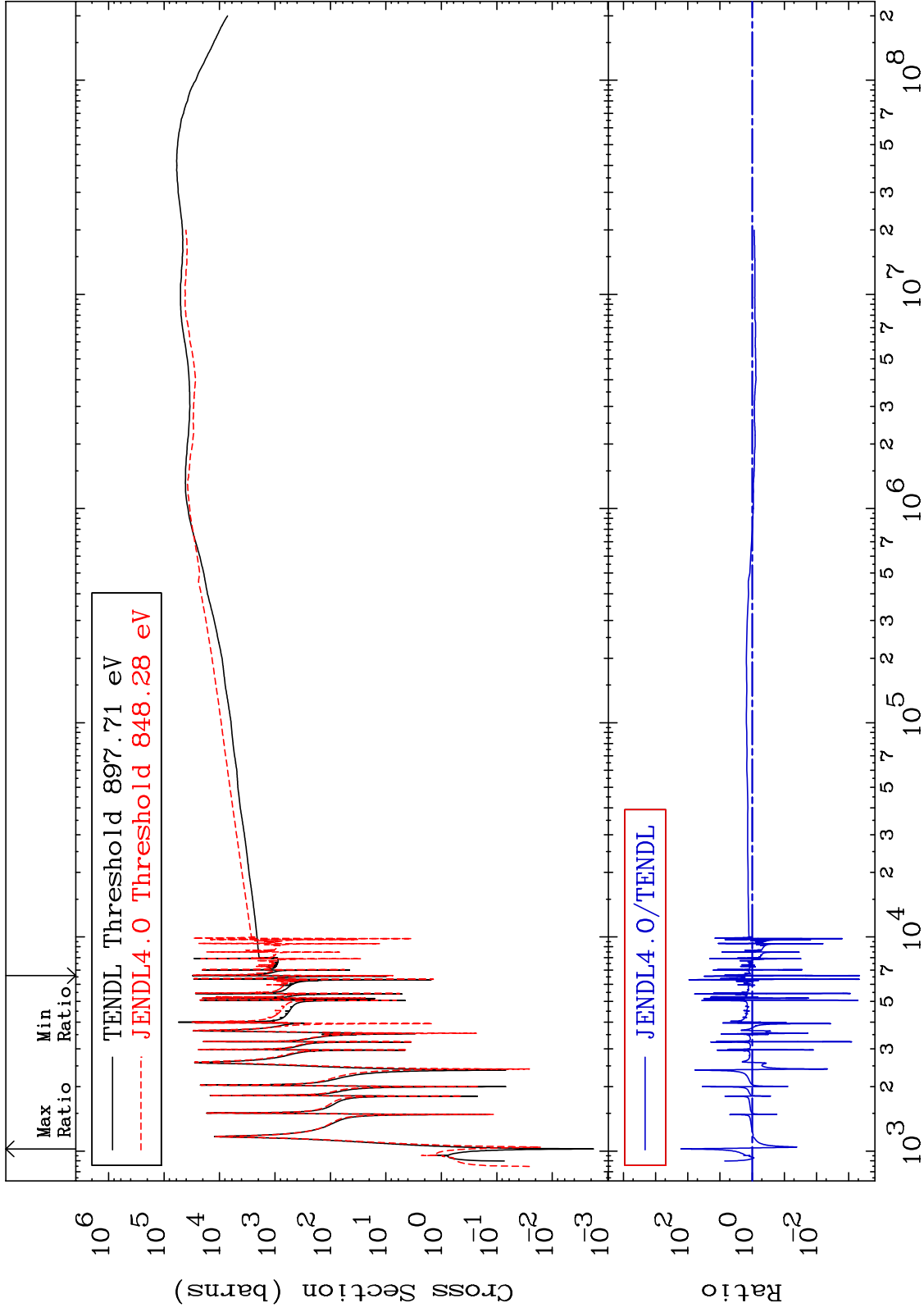
60-Nd-146
-99.95 To 8096. %



MAT 6037

Dpa elastic (mt2)
Cross Section

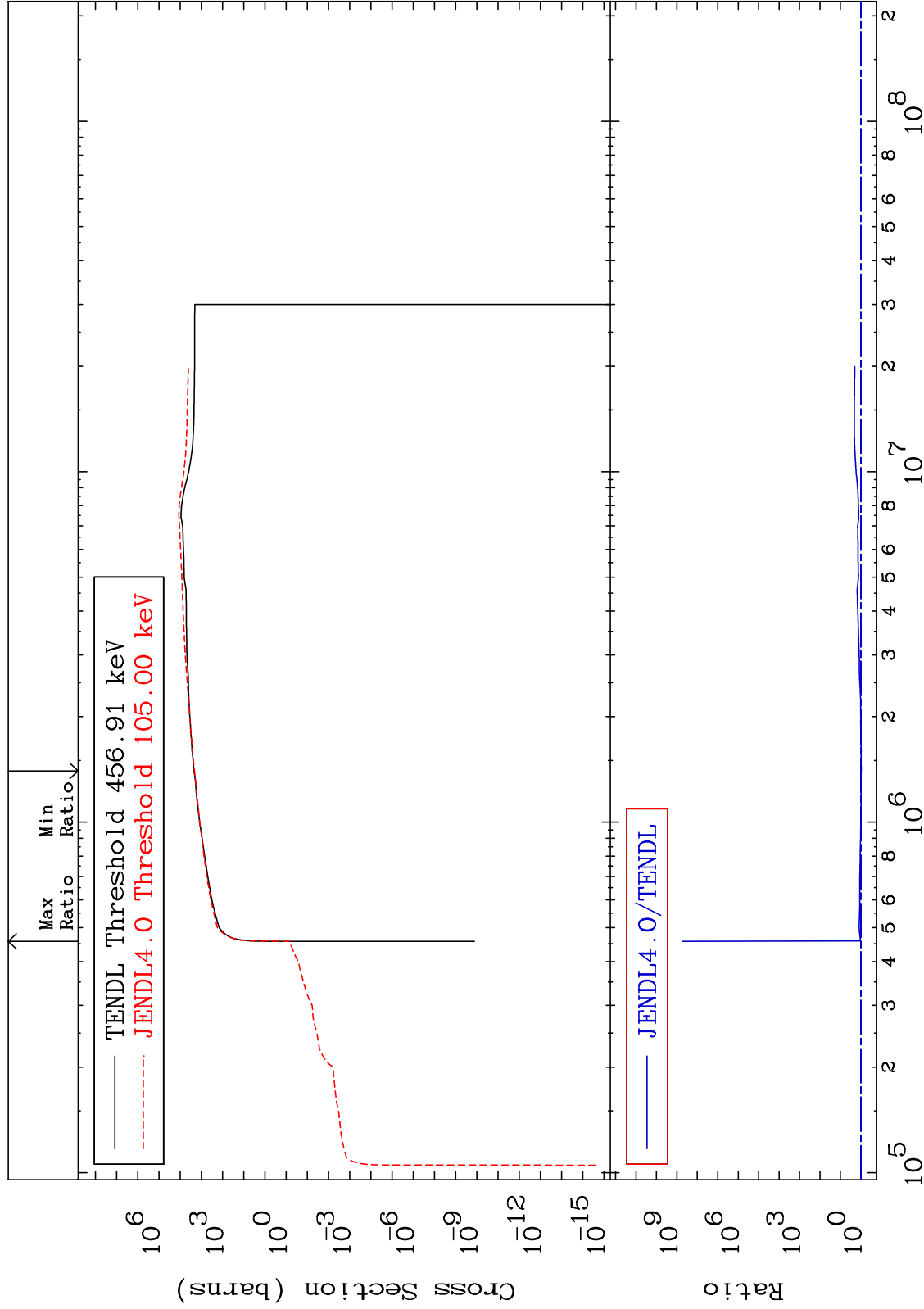
60-Nd-146
-99.95 To 9999. %



MAT 6037

Dpa inelastic (mt51-91)
Cross Section

60-Nd-146
-6.261 To 9999. %



63

60-Nd-146

MAT 6037 Dpa disappearance (mt102 -120) 60-Nd-146
 Cross Section -99.95 To 9999. %

