

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

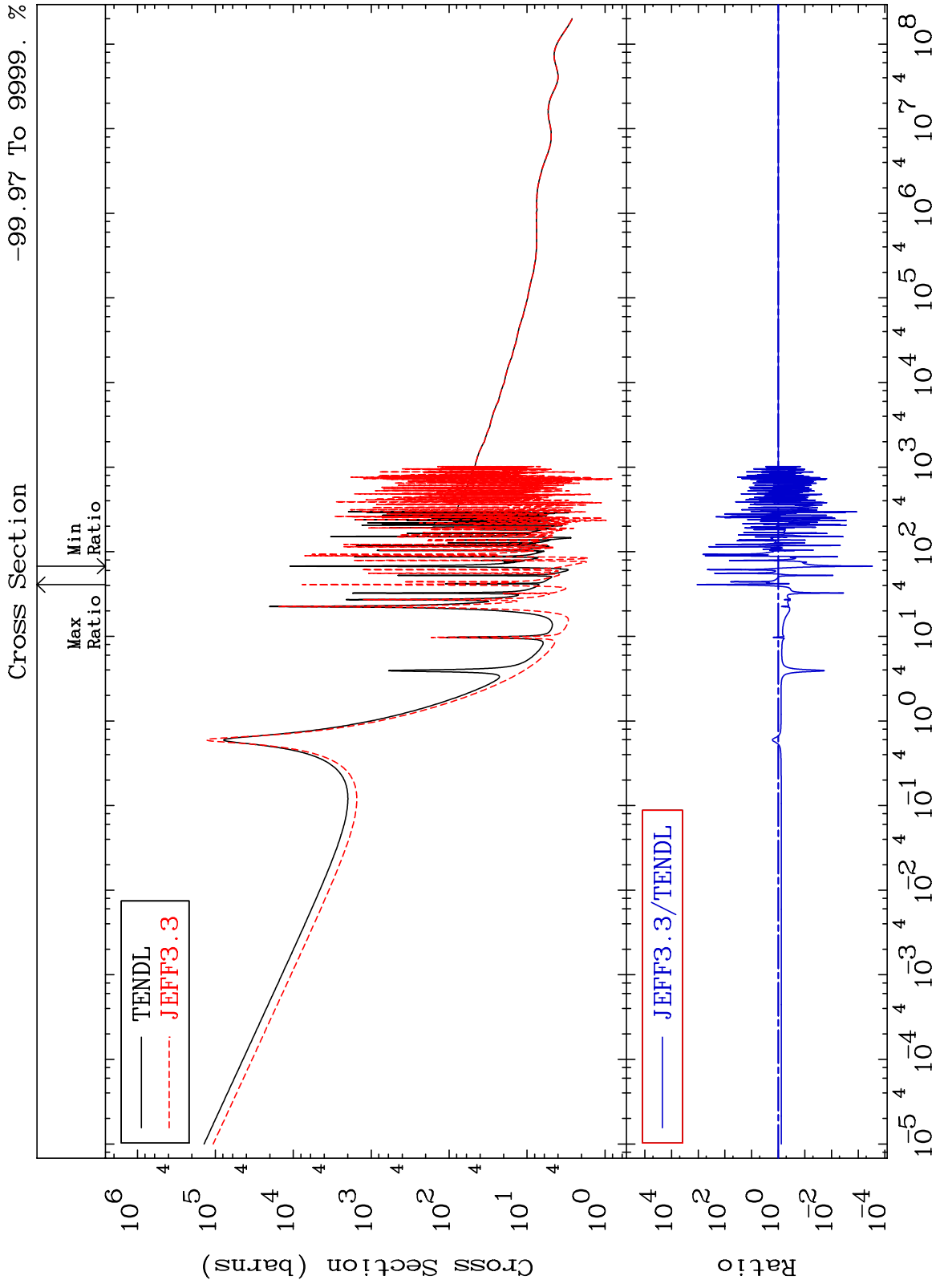
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 7025 70-Yb-168  
-99.97 To 9999. %



70-Yb-168

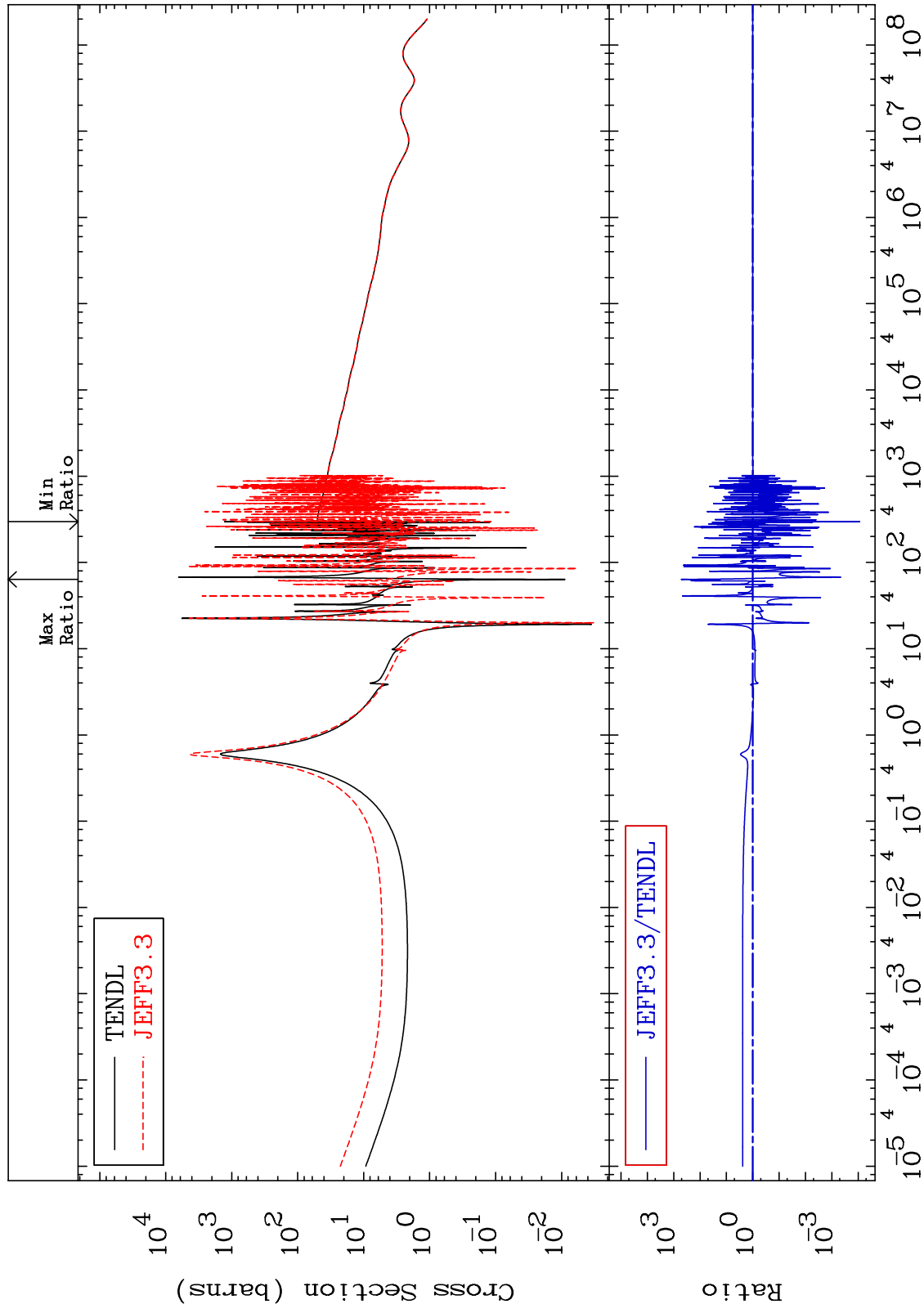
Incident Energy (eV)

1

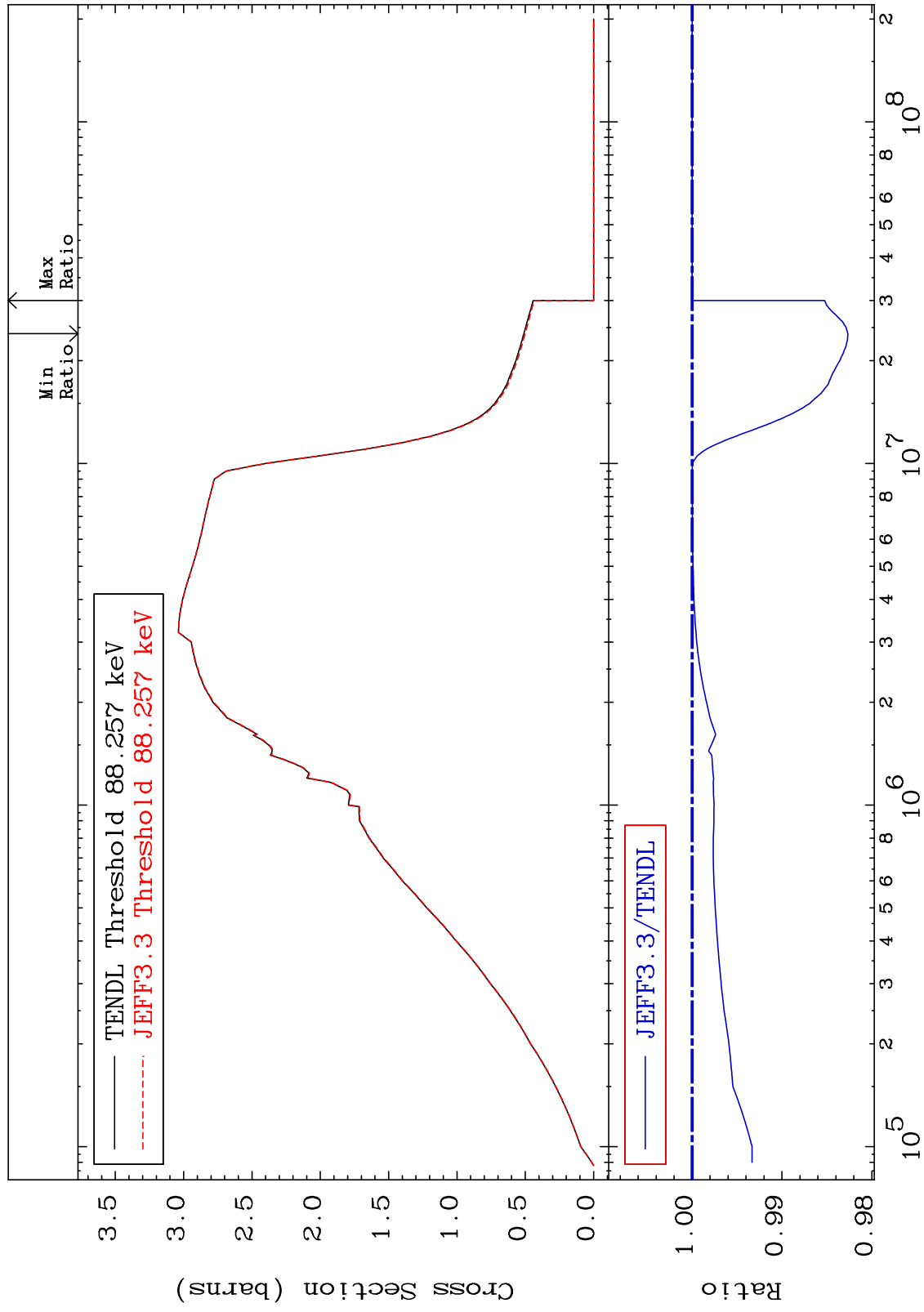
MAT 7025

Elastic  
Cross Section

70-Yb-168  
-99.99 To 9999. %

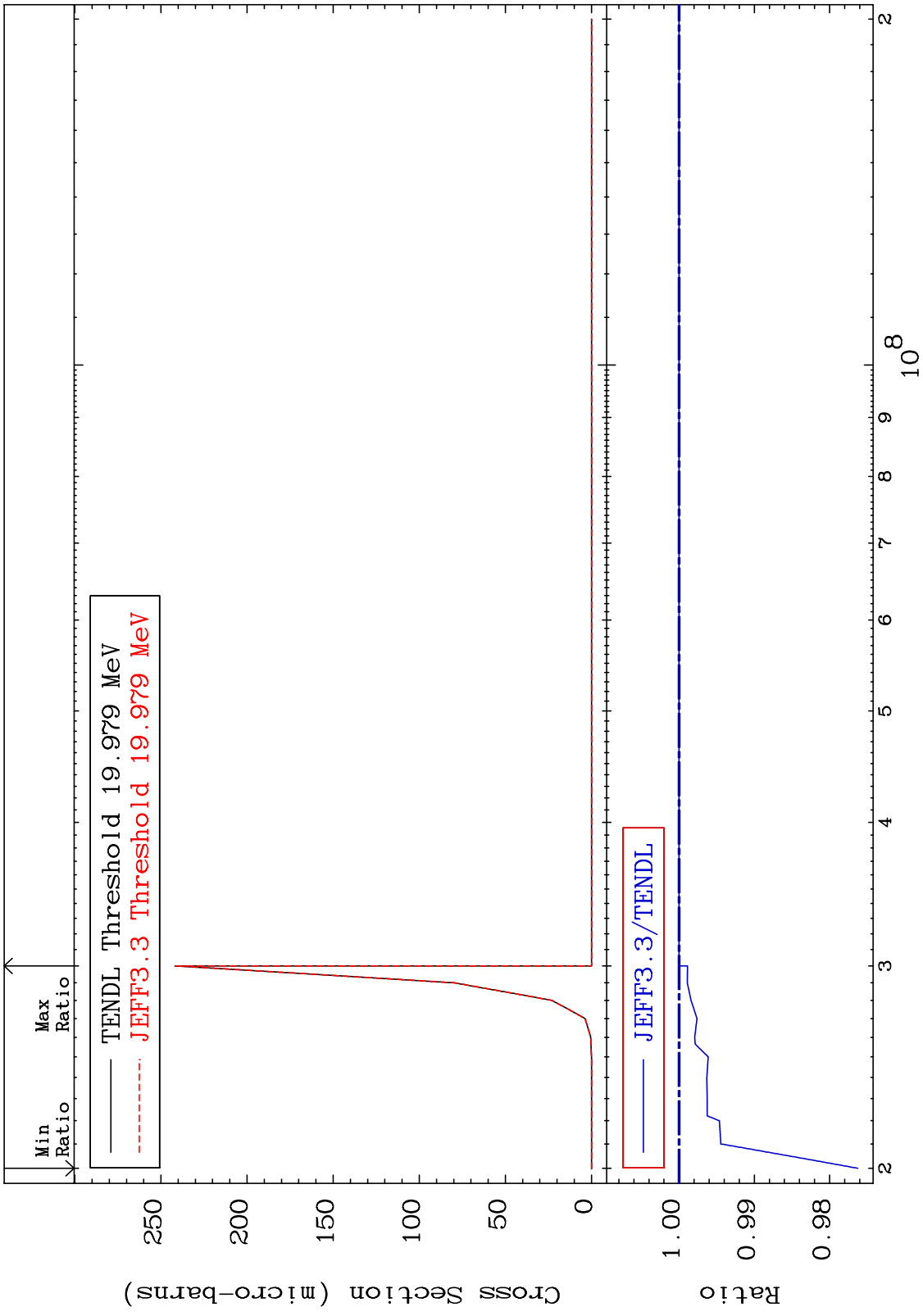


MAT 7025 Inelastic Cross Section 70-Yb-168 -1.733 To 0.000 %

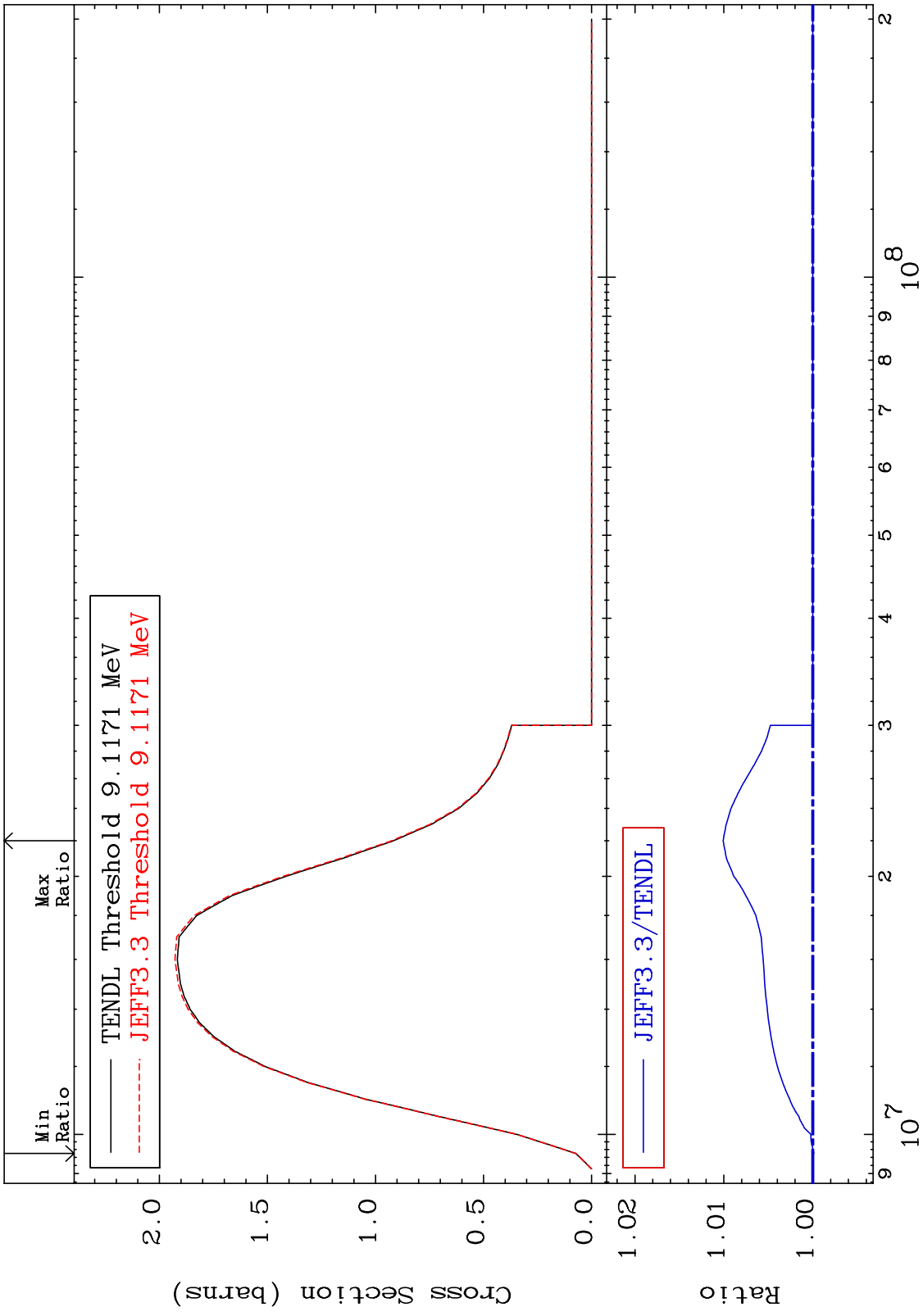


3 Incident Energy (eV) 70-Yb-168

MAT 7025 (n,2n) d 70-Yb-168  
 Cross Section -2.375 To 0.000 %

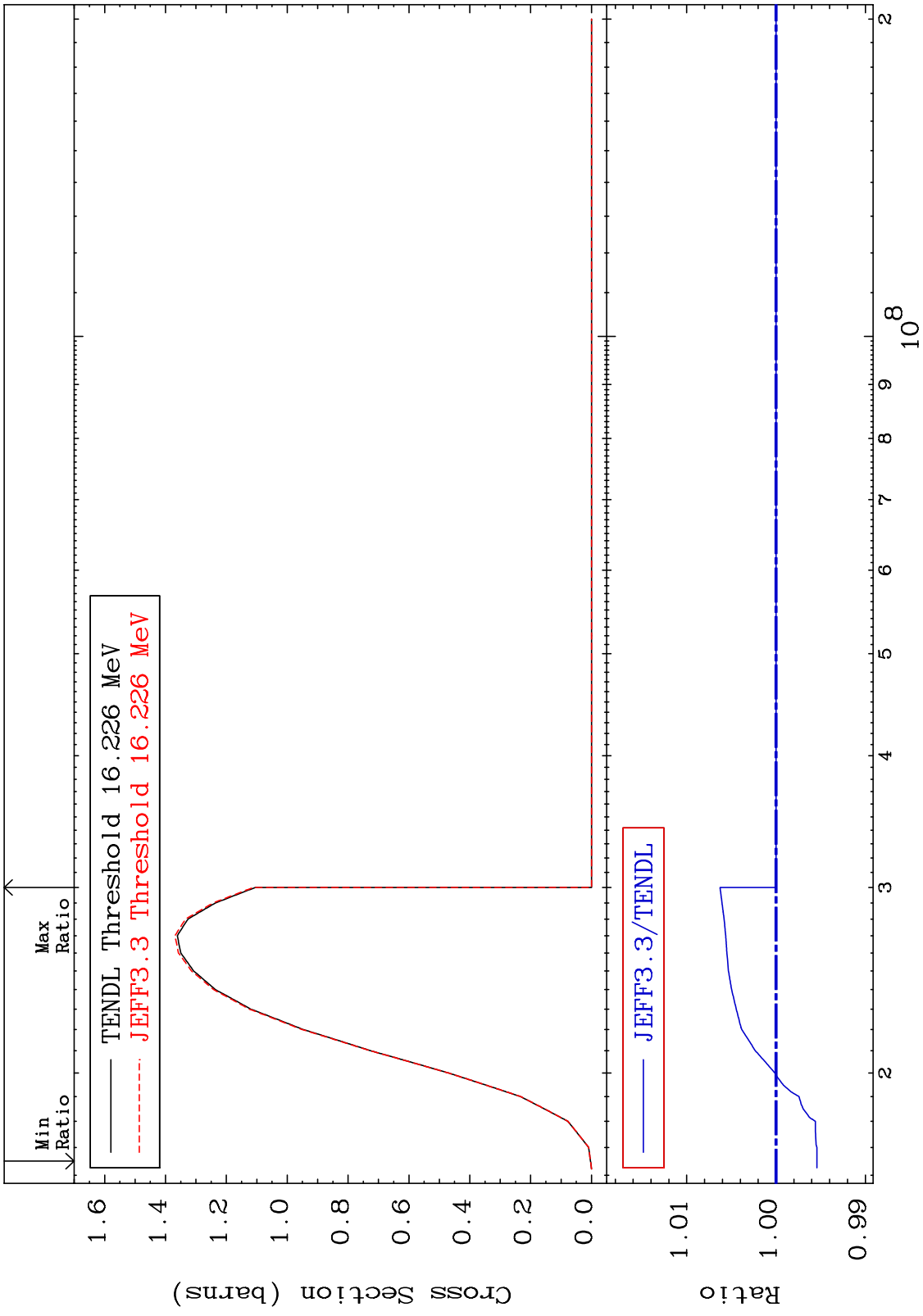


MAT 7025  $(n,2n)$  Cross Section  $^{70}\text{Yb-168}$  -0.010 To 1.009 %



70-Yb-168 Incident Energy (eV)

MAT 7025  $(n, 3n)$   $^{70}\text{Yb-168}$   
 Cross Section  $-0.457$  To  $0.627$  %



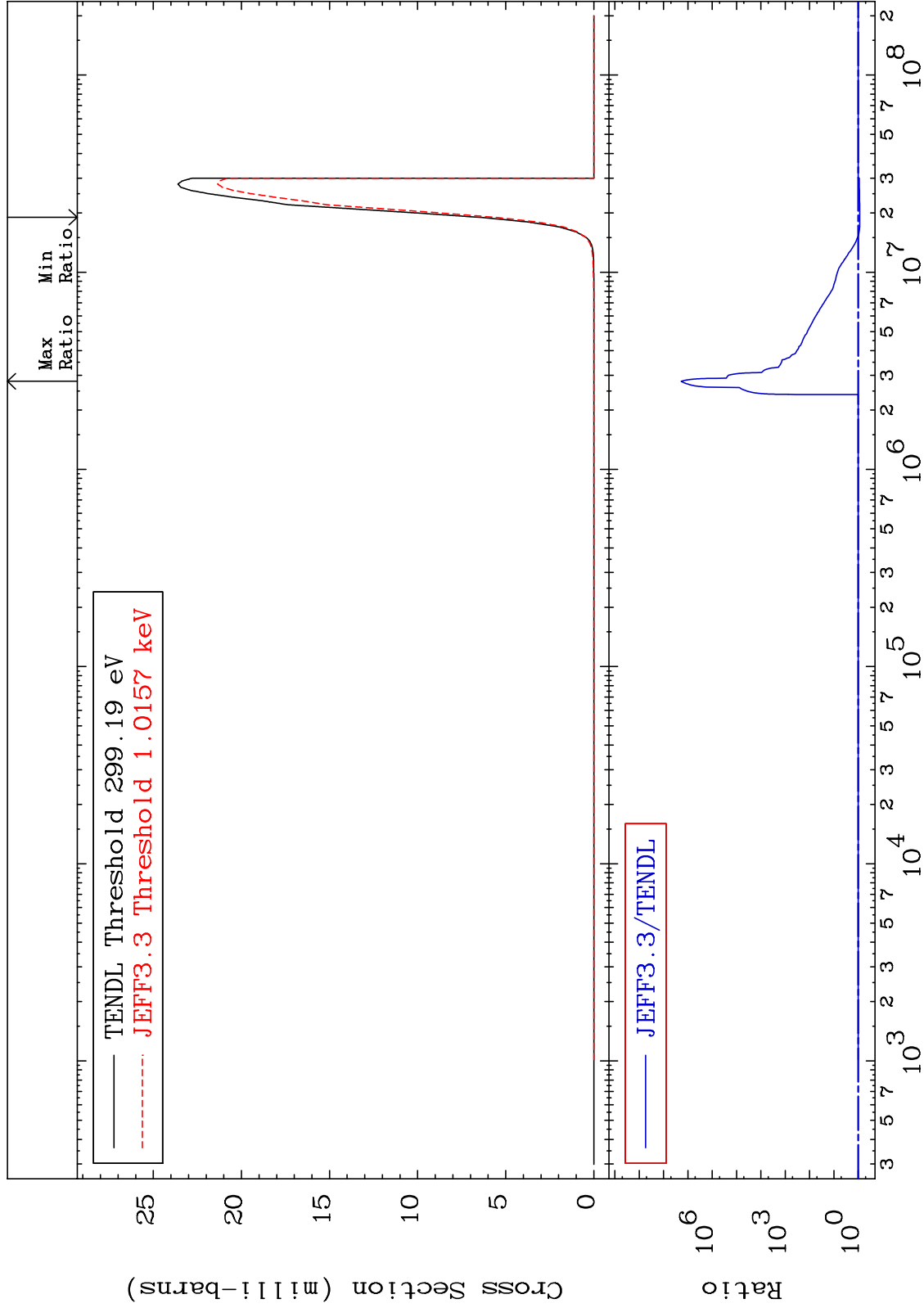
MAT 7025

(n, n')  $\alpha$

70-Yb-168

Cross Section

-13.66 To 9999. %



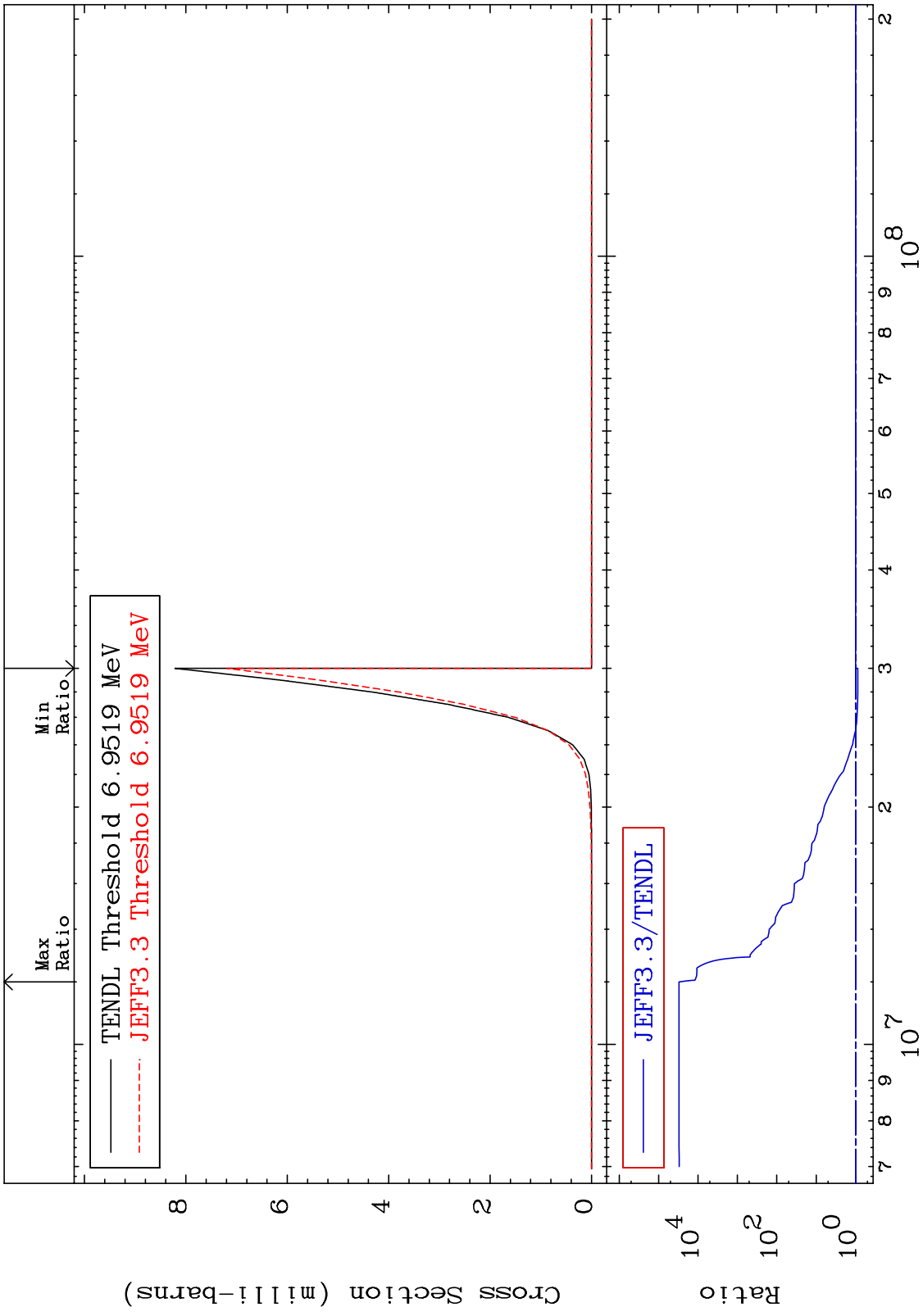
7

Incident Energy (eV)

70-Yb-168

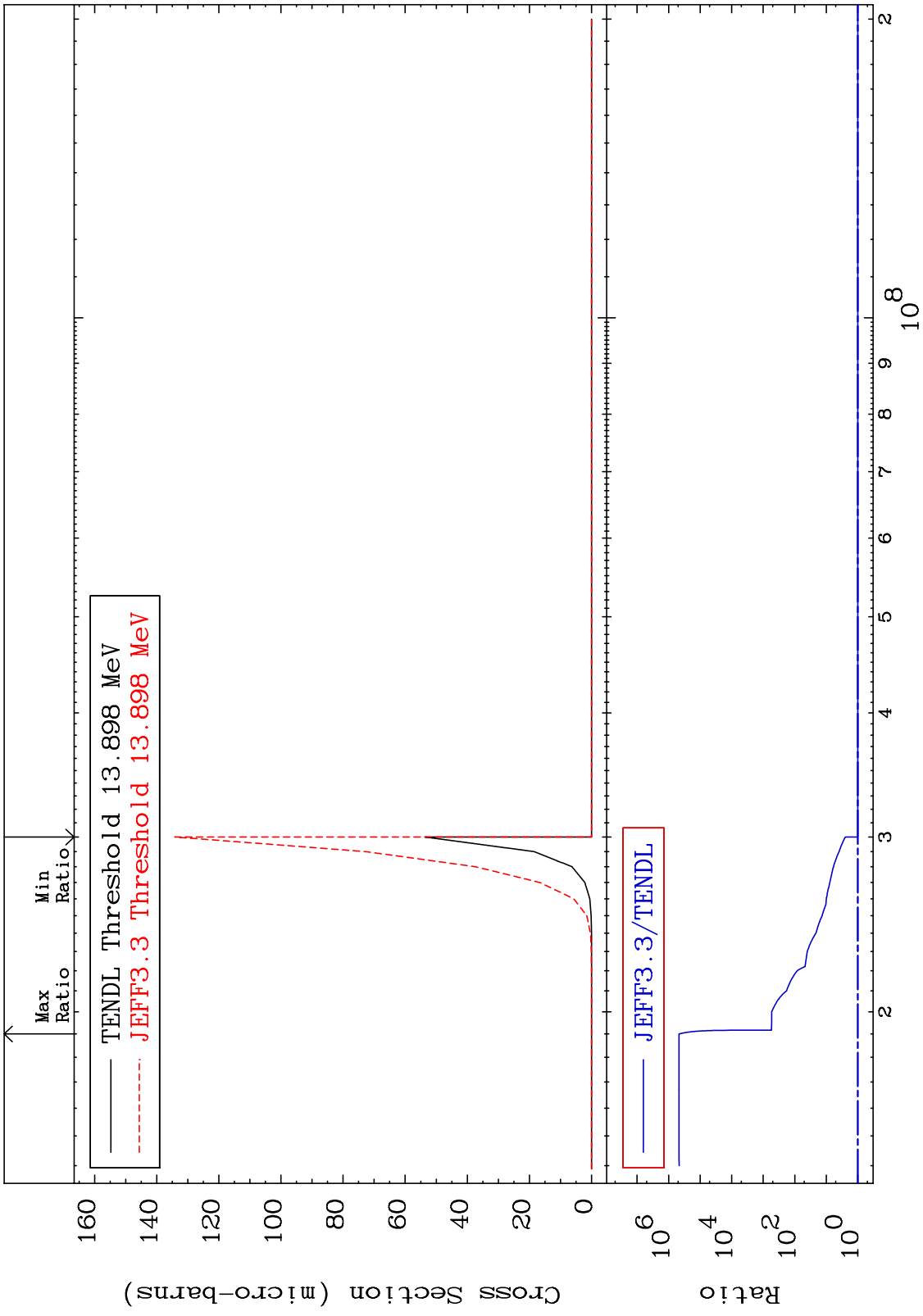


MAT 7025  $(n, 2n) \alpha$   $^{70}\text{Yb-168}$   
 Cross Section -12.56 To 9999. %



8  $^{70}\text{Yb-168}$

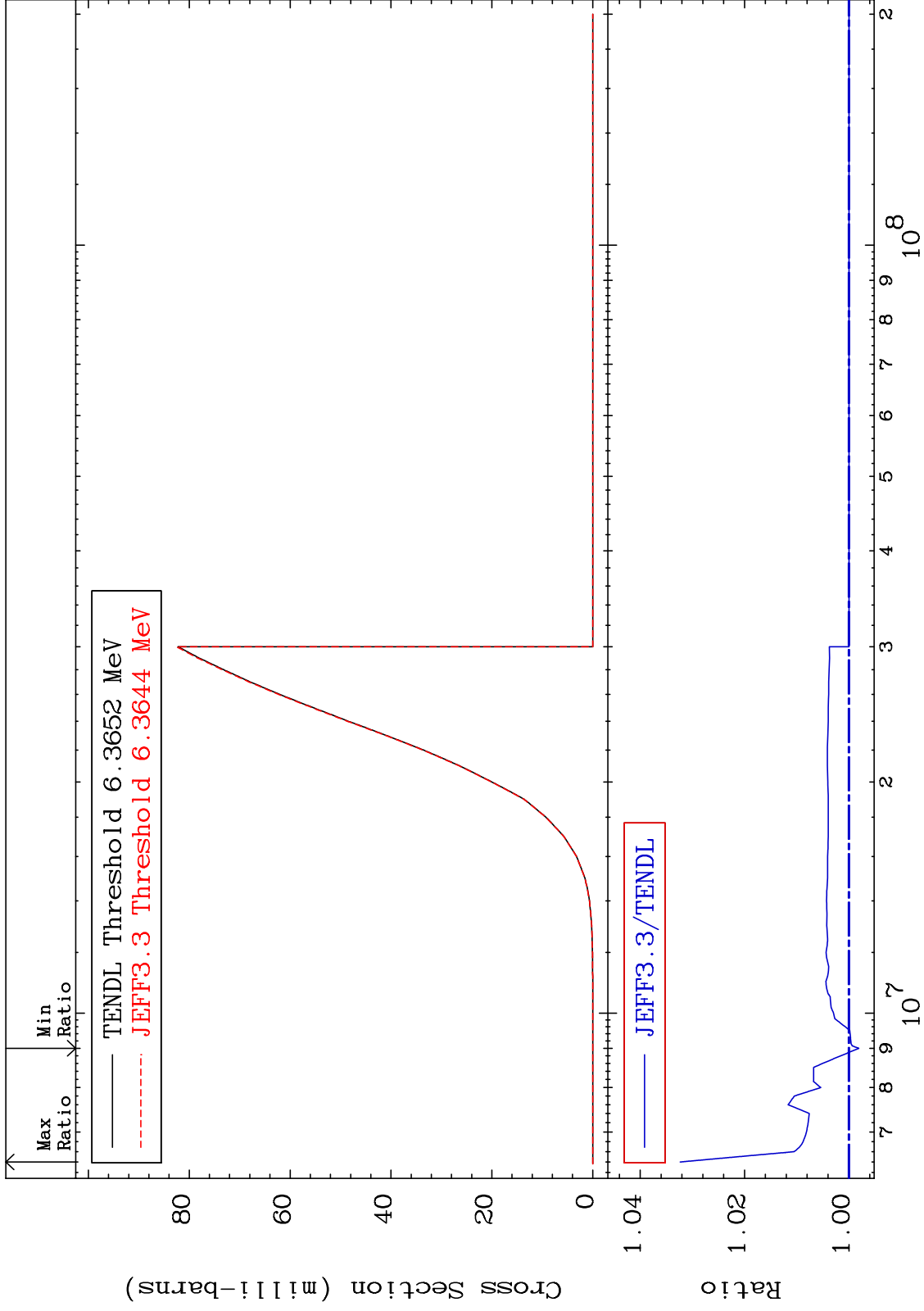
MAT 7025  $(n, 3n) \alpha$  70-Yb-168  
 Cross Section 0.000 To 9999. %



MAT 7025

(n,n') p  
Cross Section

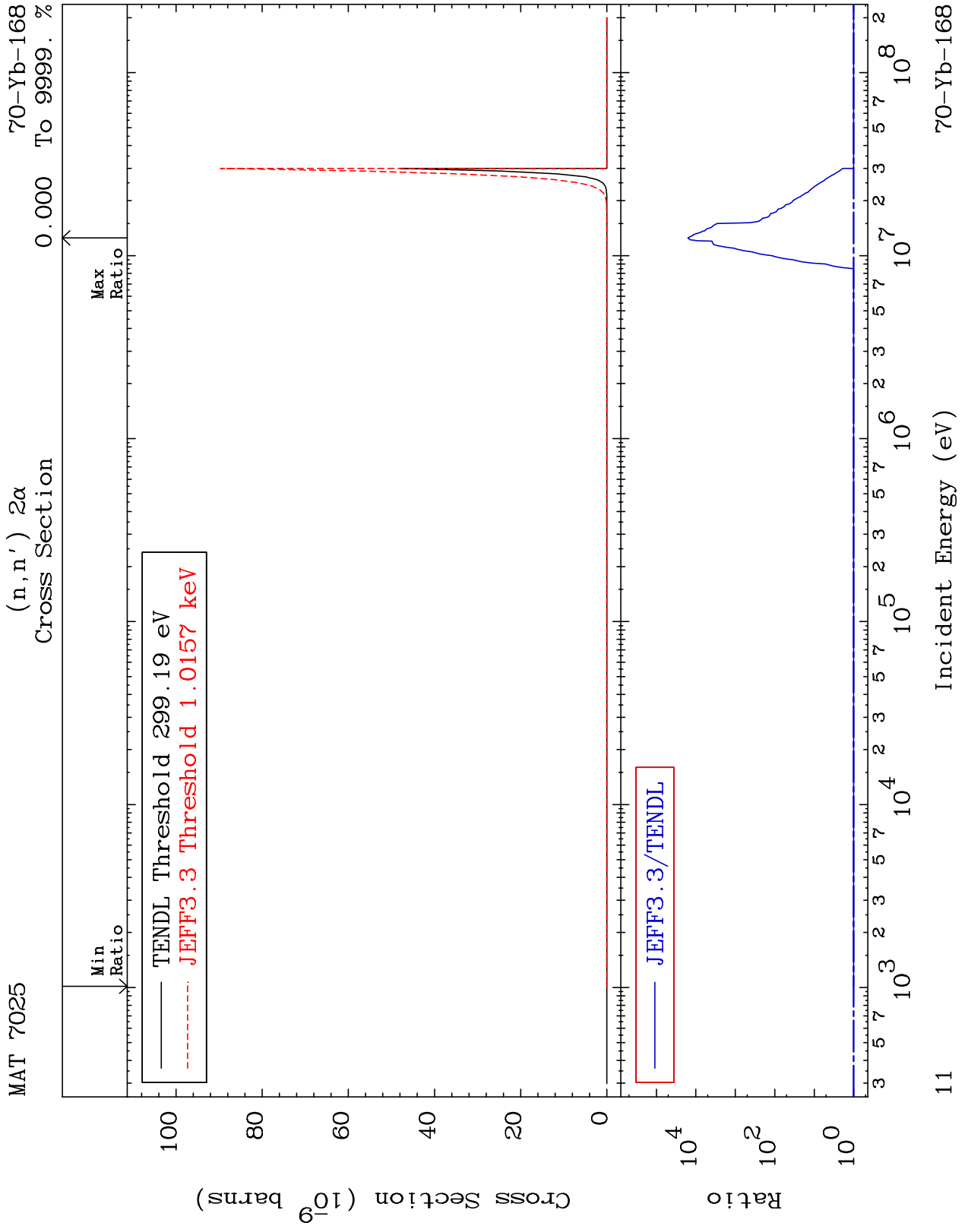
70-Yb-168  
-0.191 To 3.234 %



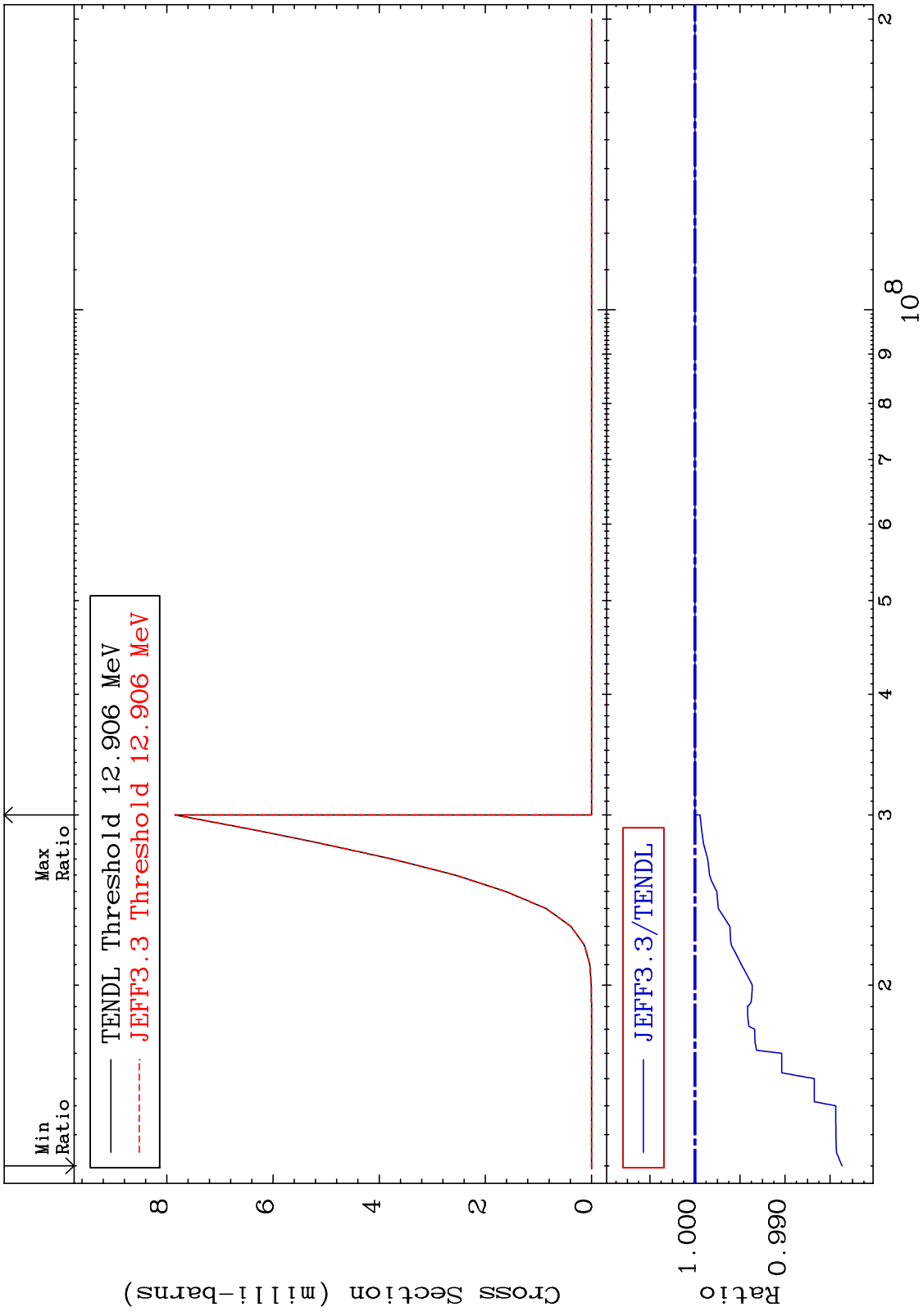
10

Incident Energy (eV)

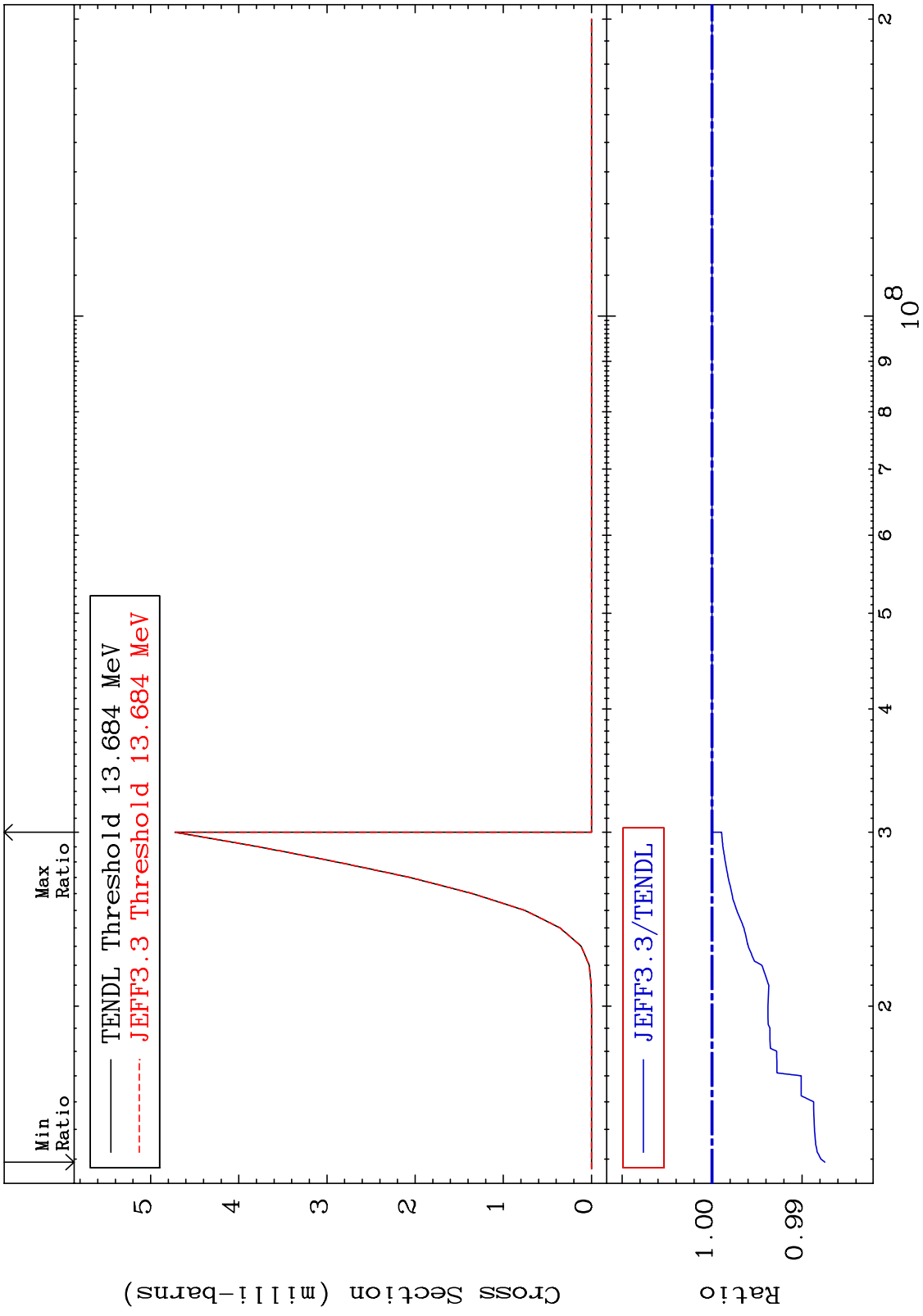
70-Yb-168



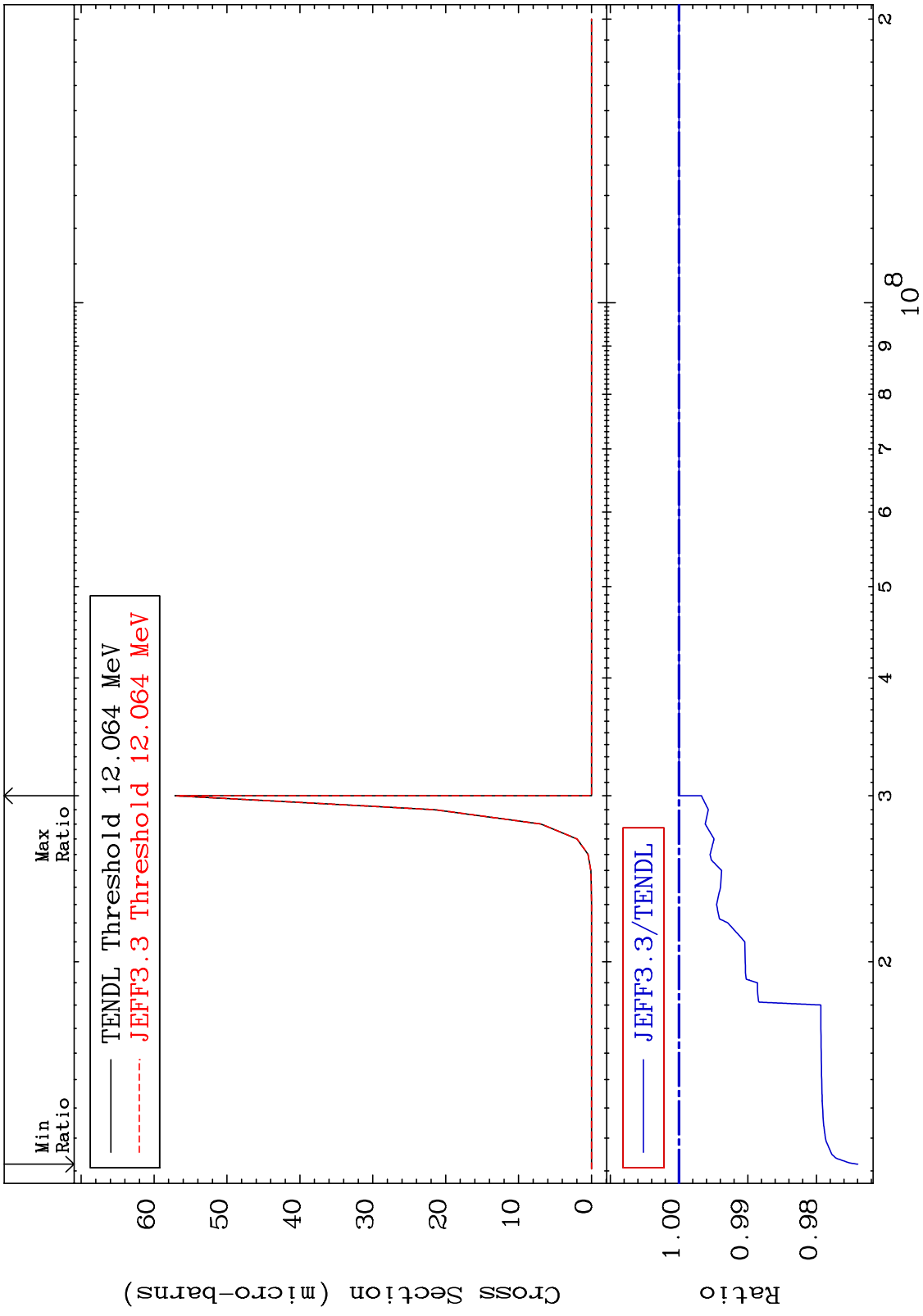
MAT 7025  $(n, n')$  d  $^{70}\text{Yb-168}$   
 Cross Section -1.631 To 0.000 %



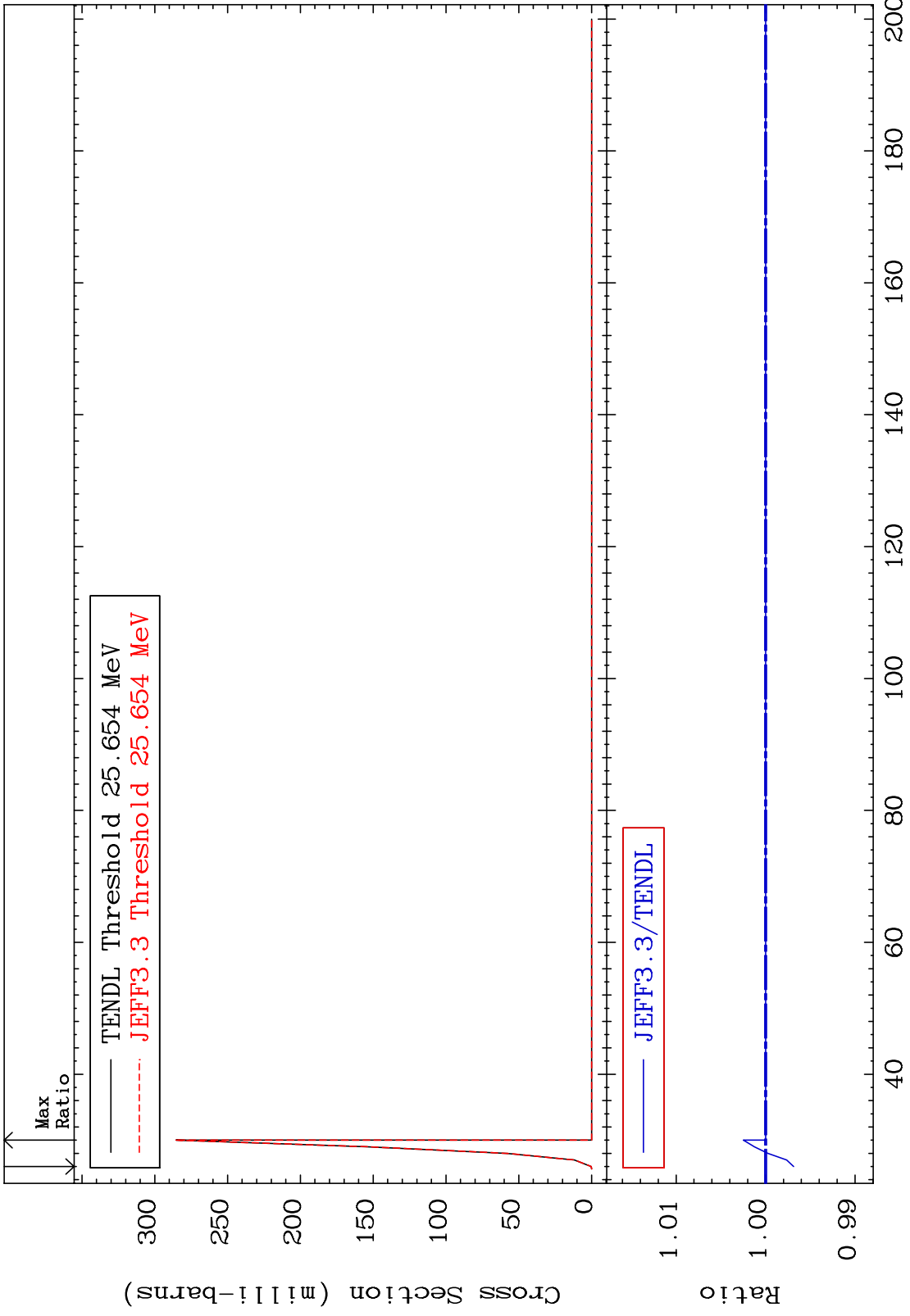
MAT 7025  $(n, n') t$   $^{70}\text{Yb-168}$   
 Cross Section  $-1.254$  To  $0.000$  %



MAT 7025 (n, n') He-3 70-Yb-168  
 Cross Section -2.603 To 0.000 %

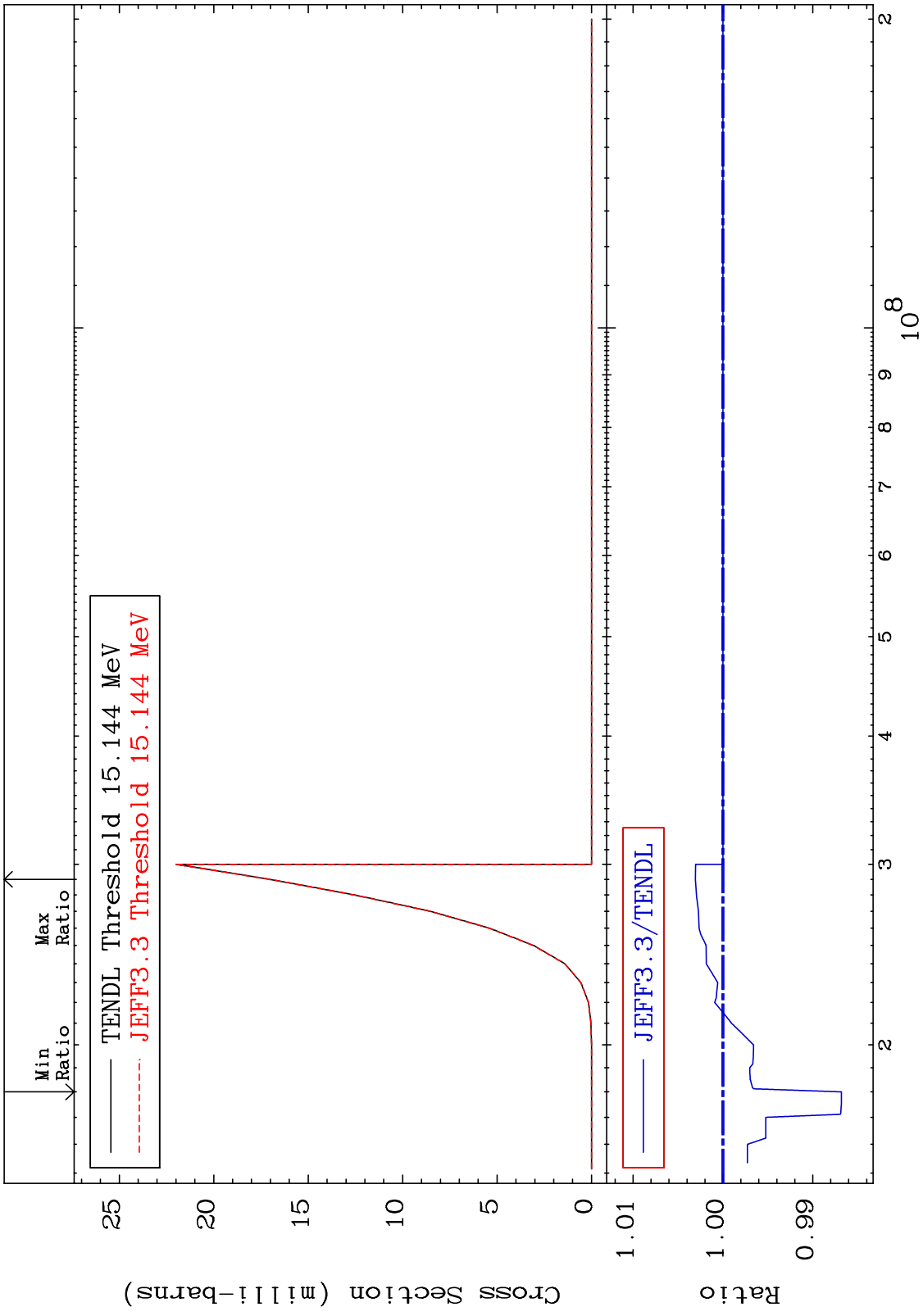


MAT 7025 (n,4n) Cross Section 70-Yb-168 -0.315 To 0.248 %

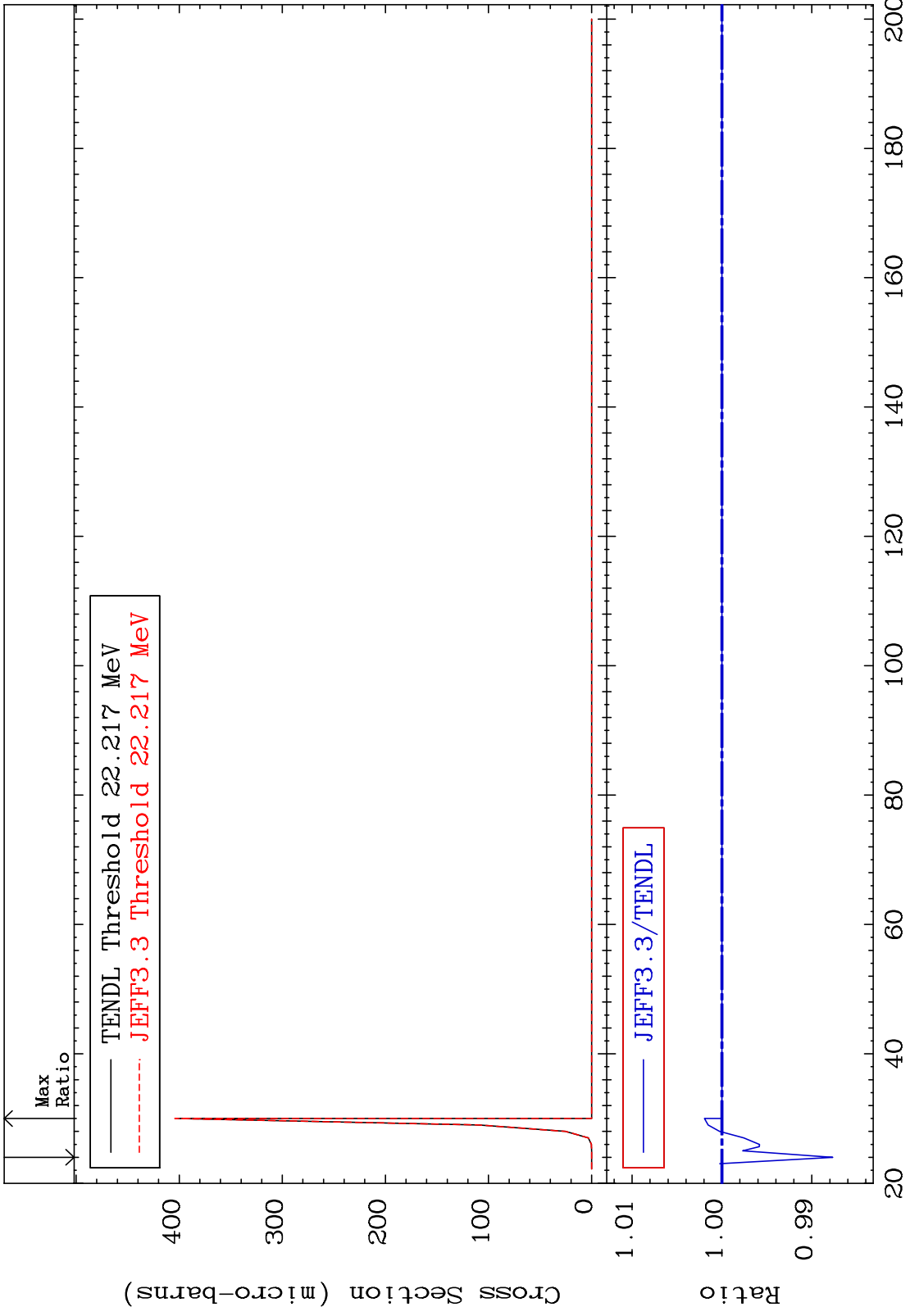




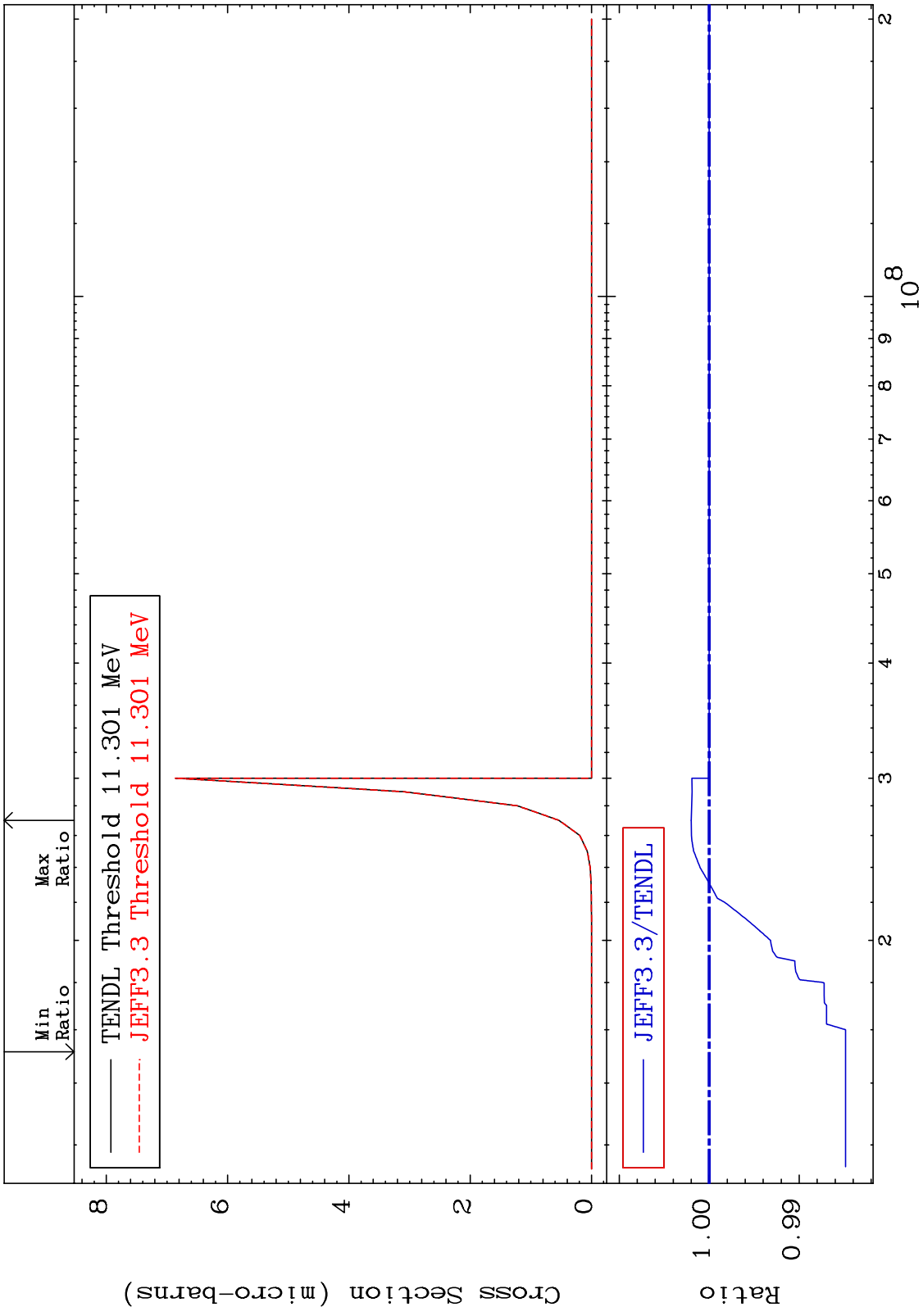
MAT 7025  $(n, 2n)$  p  $^{70}\text{Yb-168}$   
 Cross Section -1.319 To 0.306 %



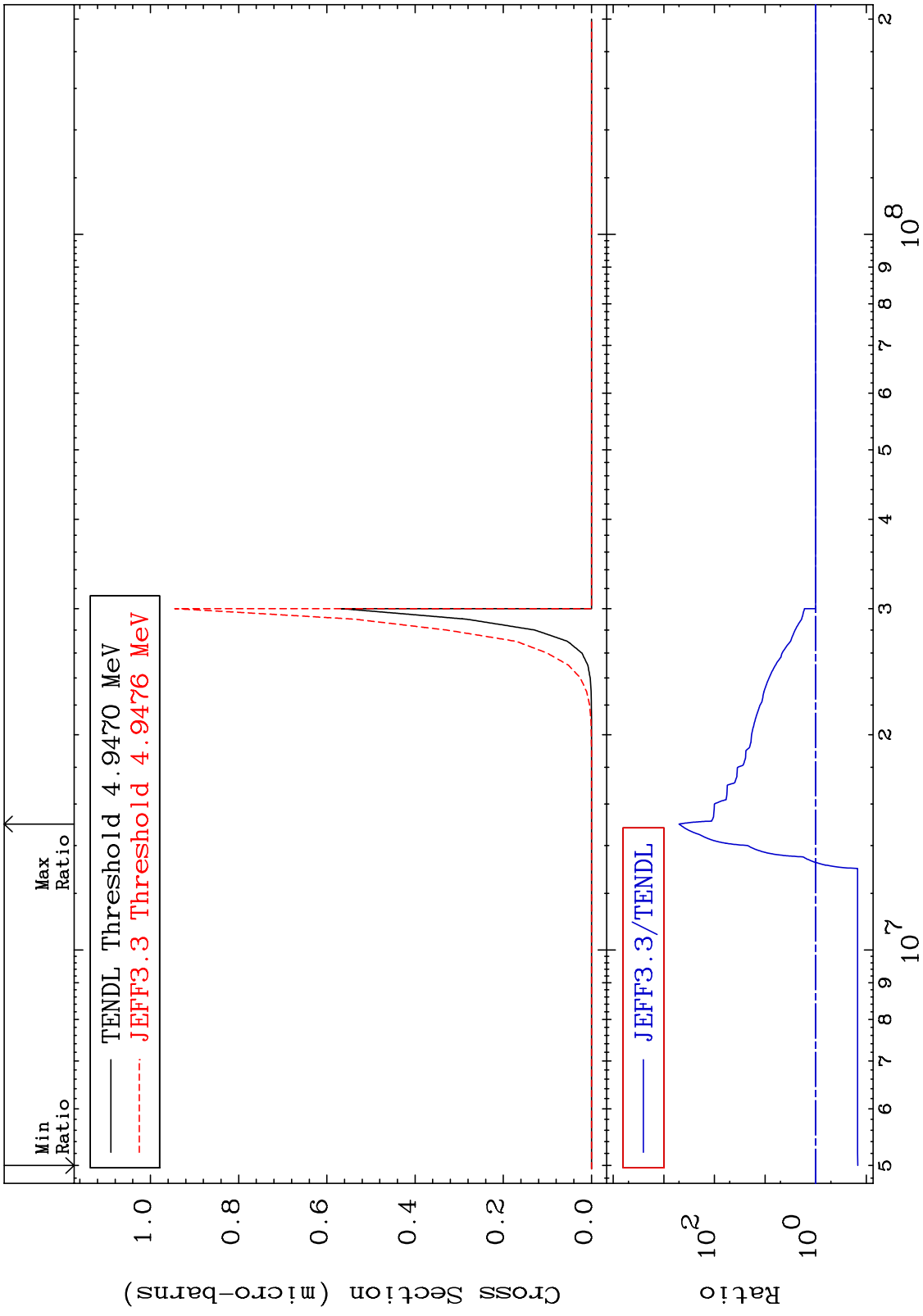
MAT 7025 (n,3n) p 70-Yb-168  
Cross Section -1.232 To 0.196 %



MAT 7025  $(n, 2n) p$  70-Yb-168  
 Cross Section -1.516 To 0.199 %

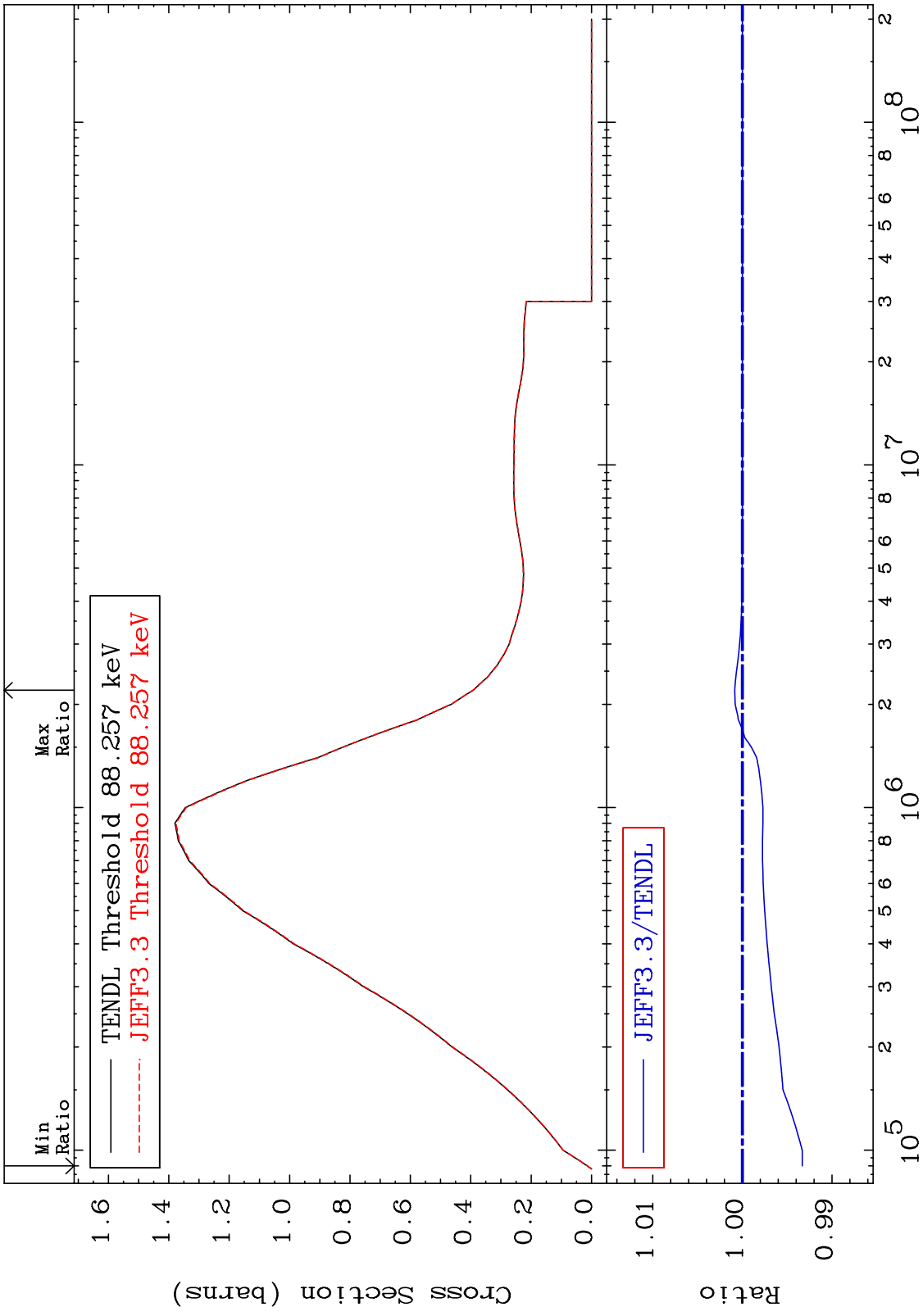


MAT 7025  $(n, n')$  p  $\alpha$  70-Yb-168  
 Cross Section -85.29 To 9999. %



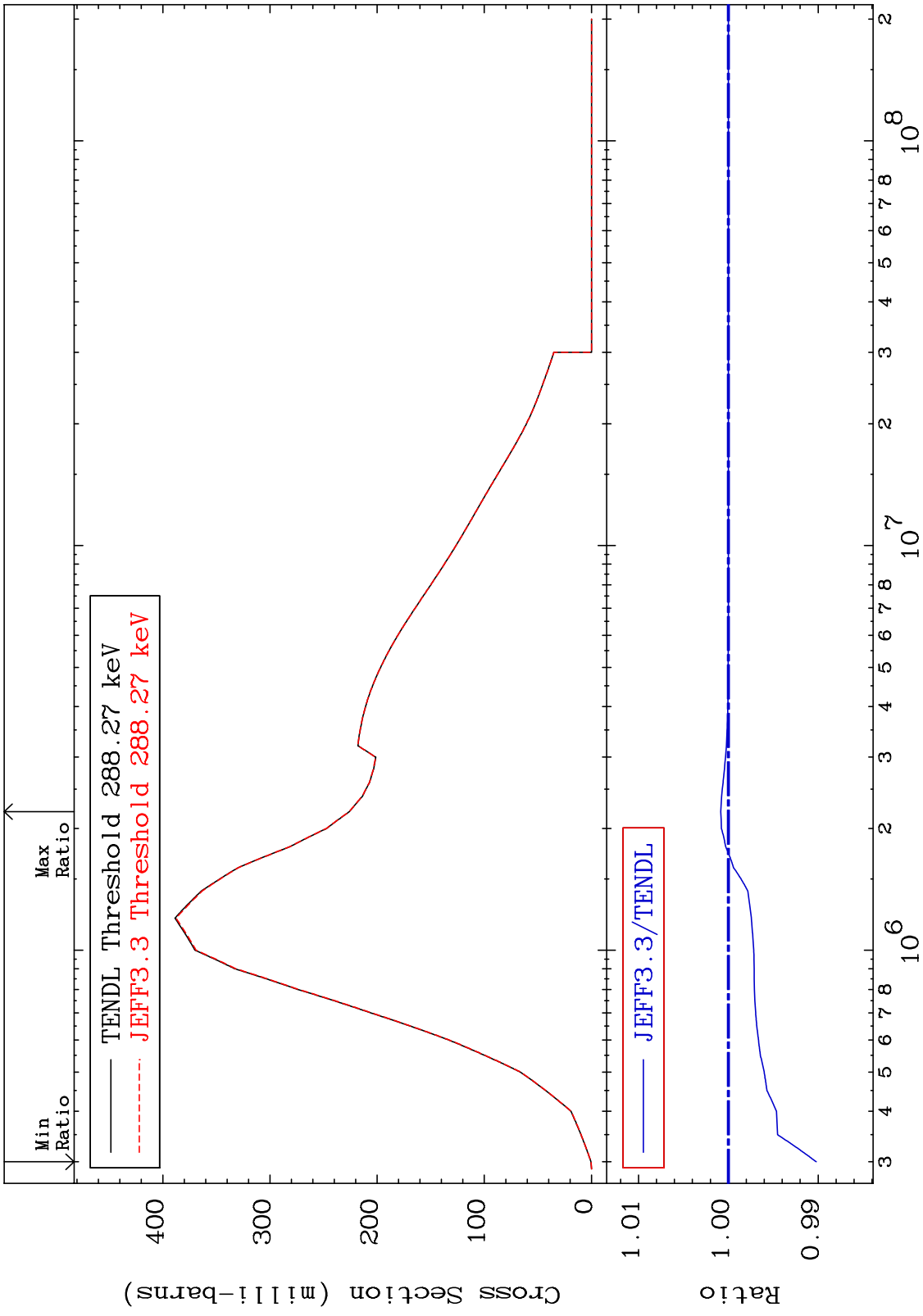
19 70-Yb-168

MAT 7025 MT= 51 (n,n') Level Cross Section -0.668 To 0.085 % 70-Yb-168

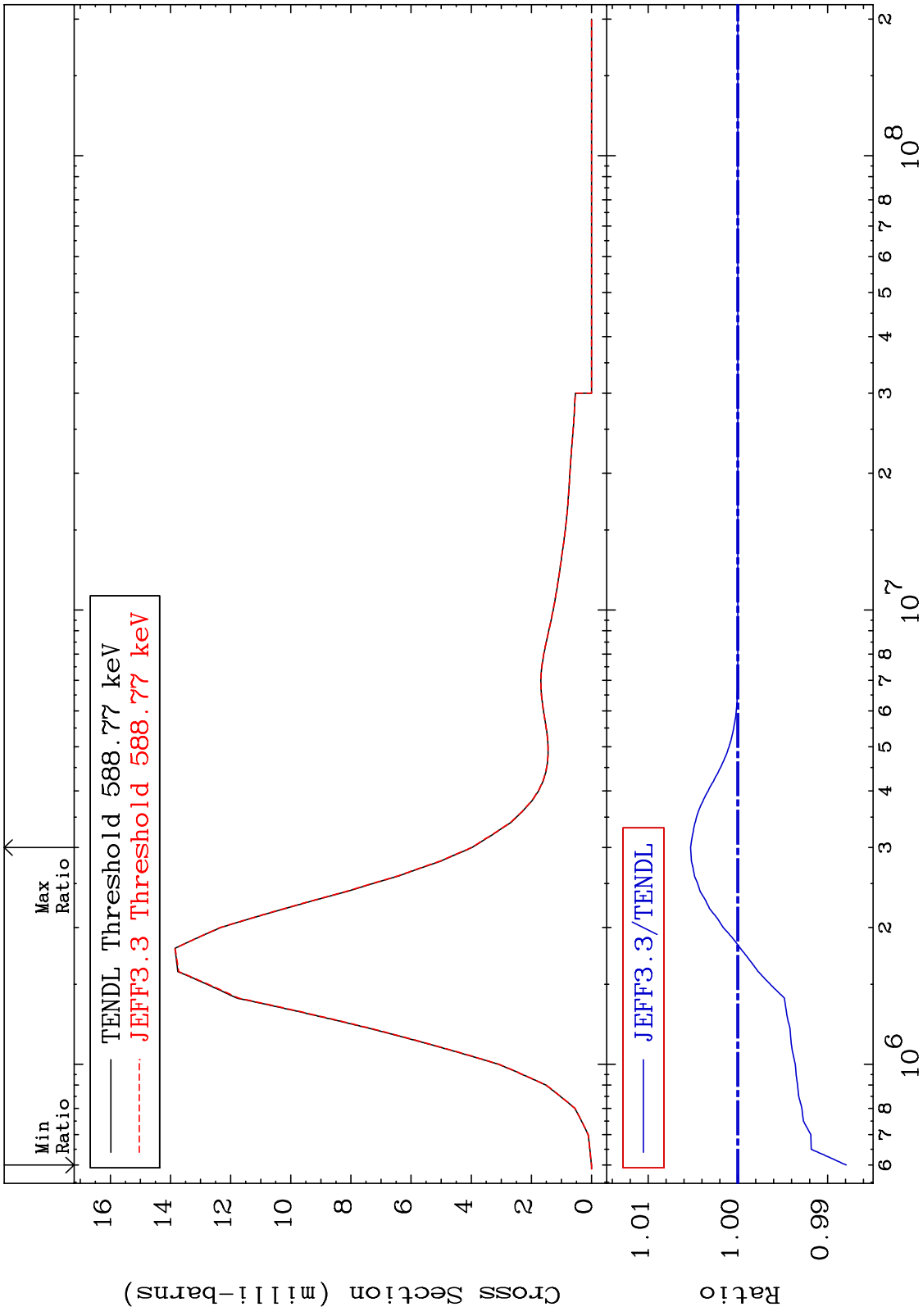


20 Incident Energy (eV) 70-Yb-168

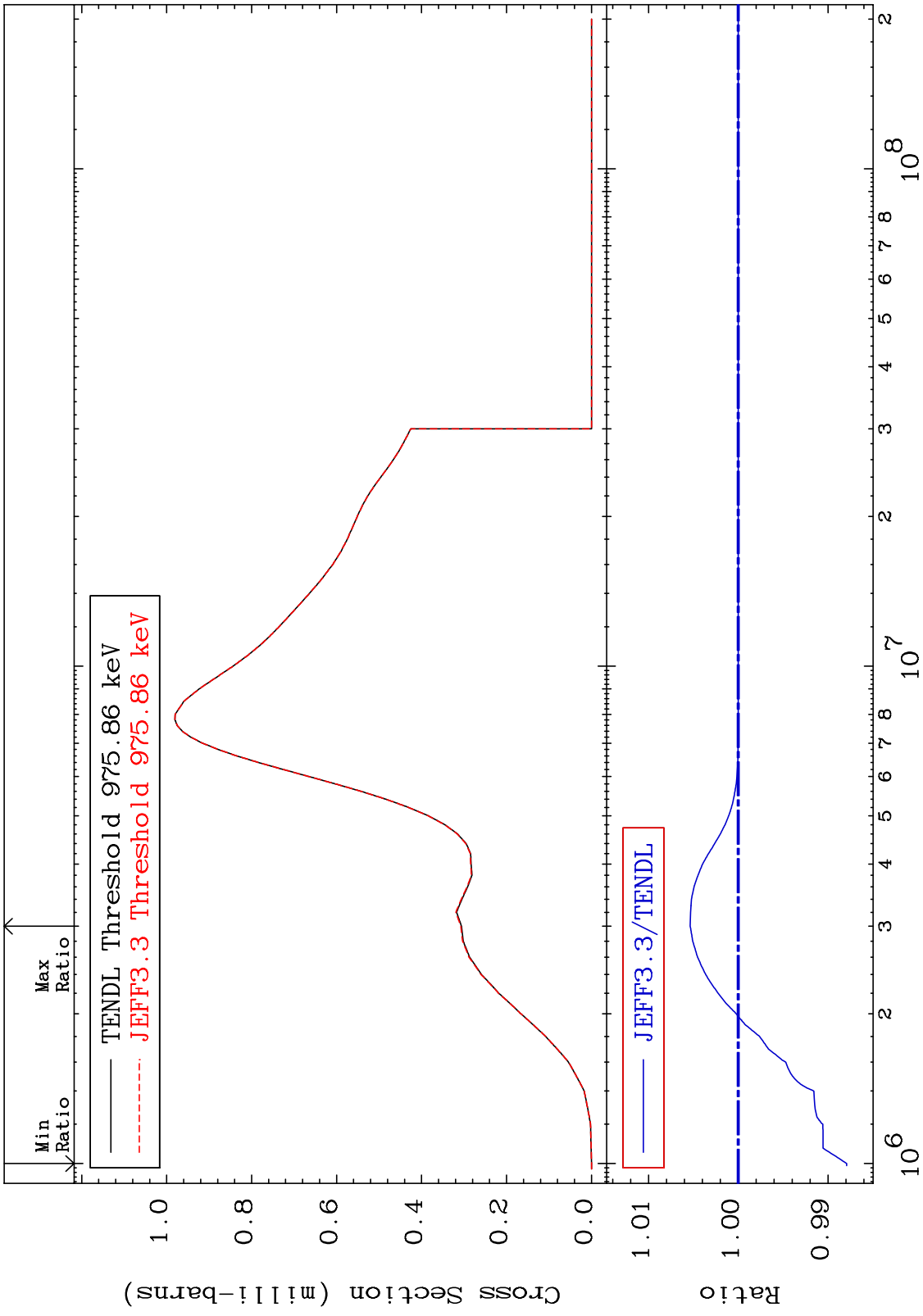
MAT 7025 MT= 52 (n,n') Level Cross Section 70-Yb-168 -0.979 To 0.085 %



MAT 7025 MT= 53 (n,n') Level Cross Section -1.209 To 0.526 % 70-Yb-168

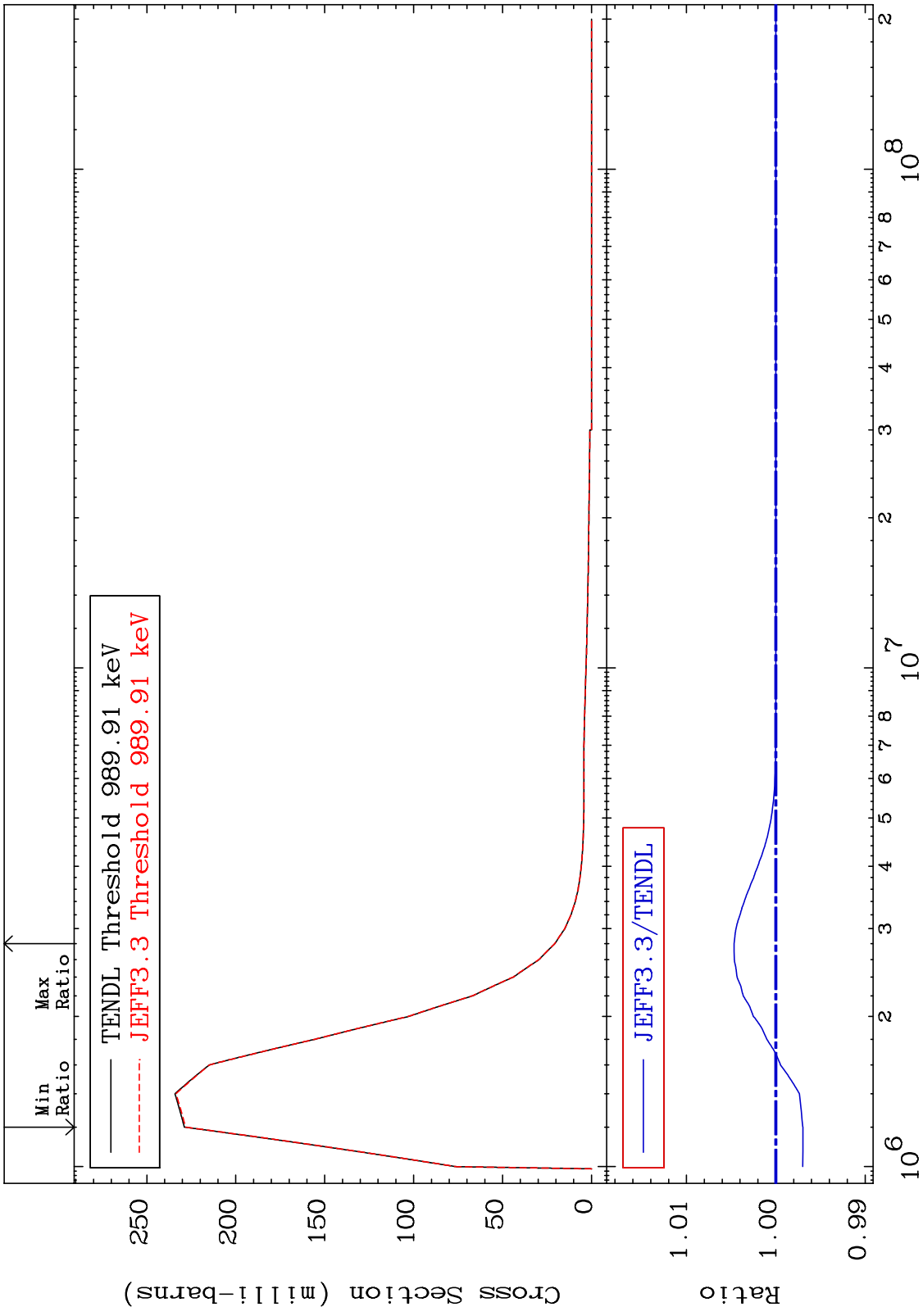


MAT 7025 MT= 54 (n,n') Level Cross Section 70-Yb-168 -1.208 To 0.536 %

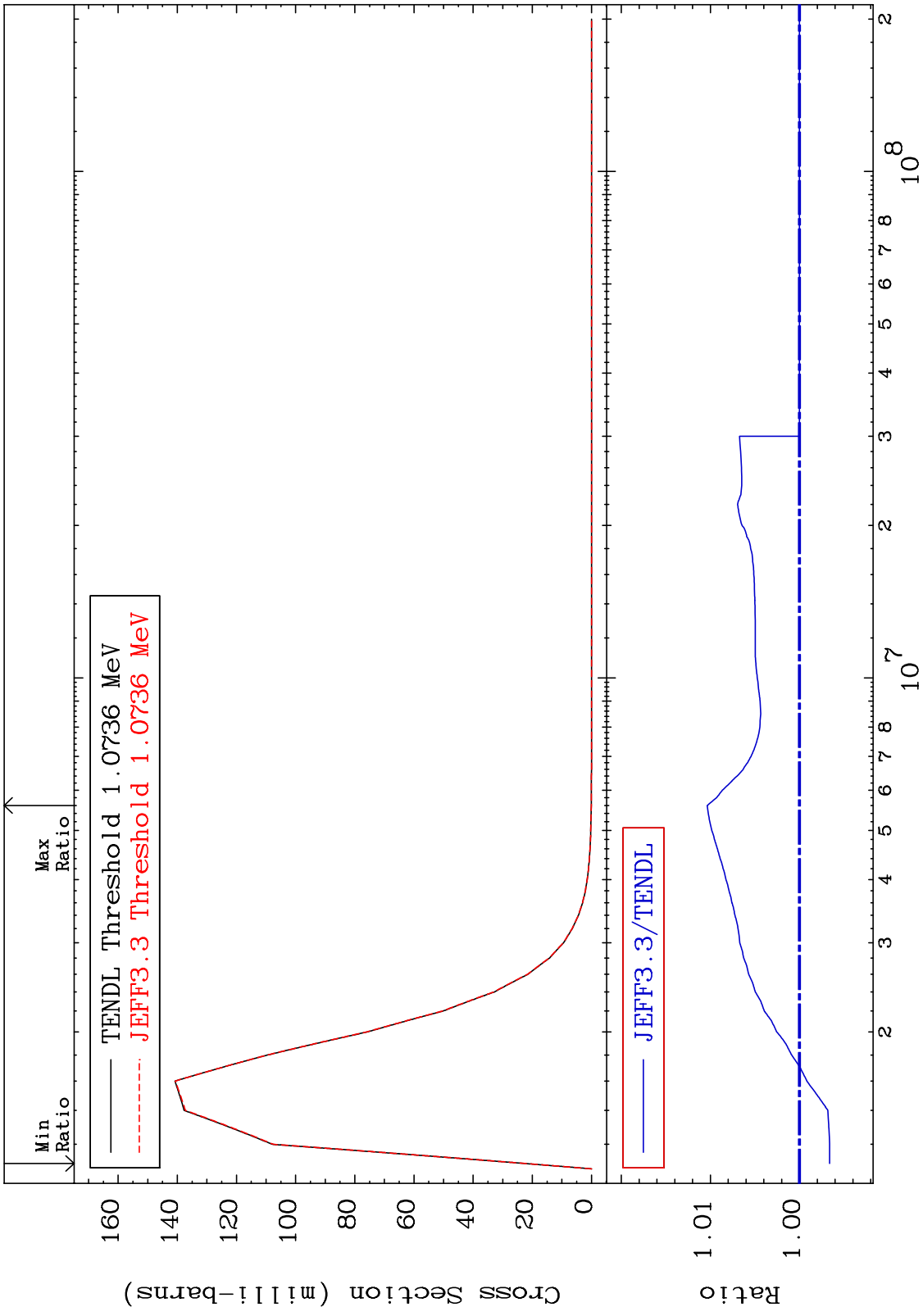




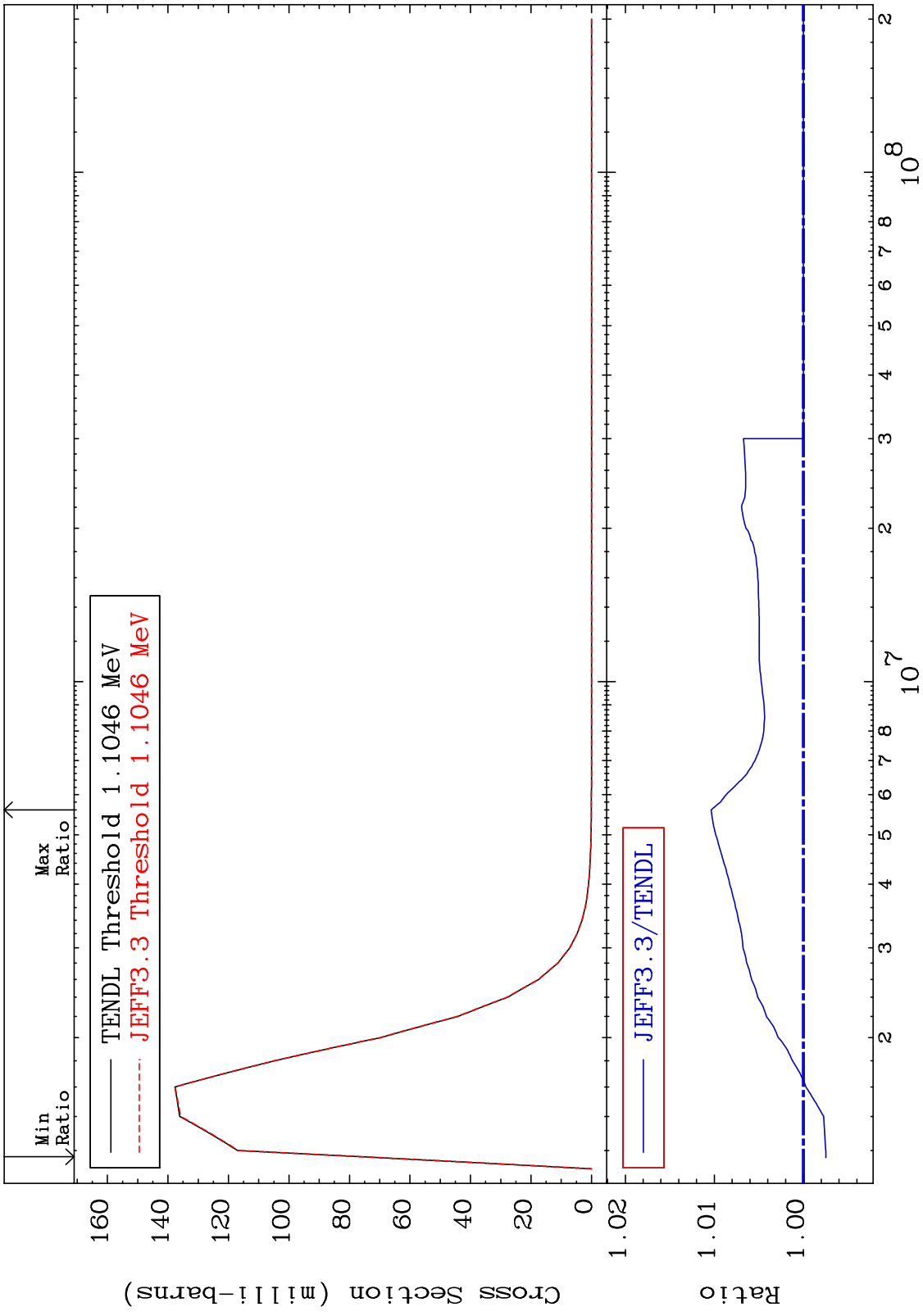
MAT 7025 MT= 55 (n,n') Level Cross Section -0.303 To 0.467 % 70-Yb-168



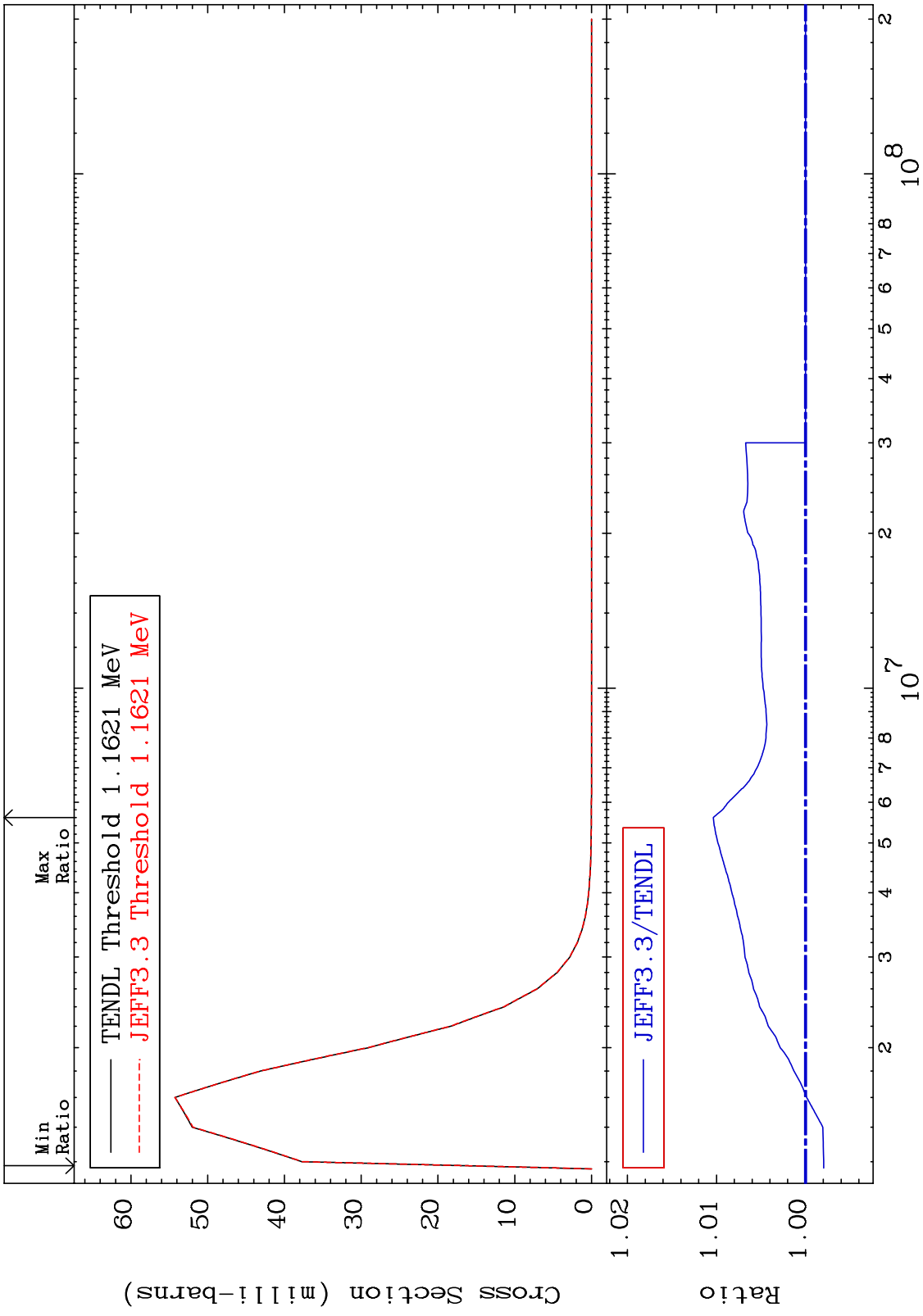
MAT 7025 MT= 56 (n,n') Level Cross Section 70-Yb-168 -0.339 To 1.036 %



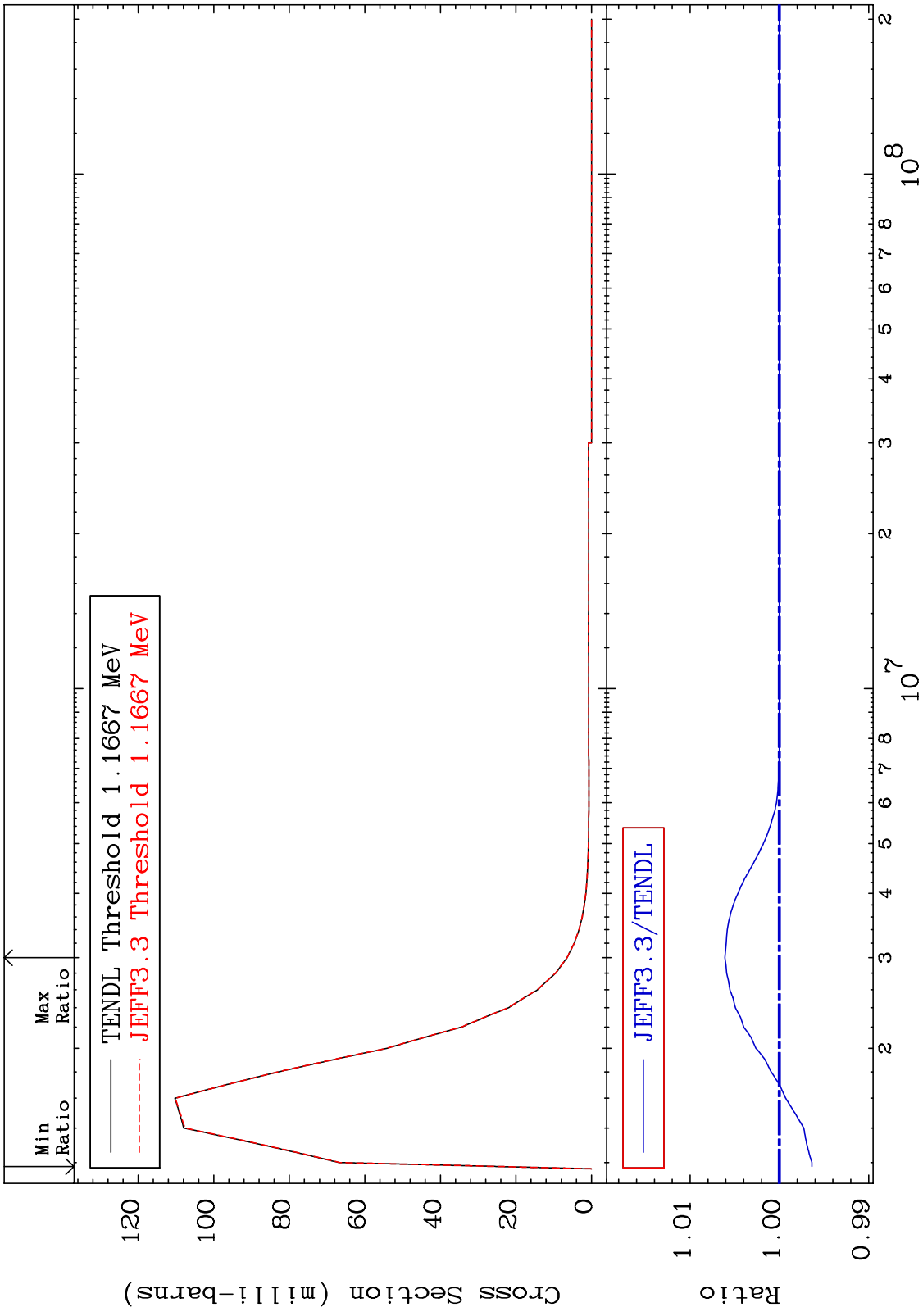
MAT 7025 MT= 57 (n, n') Level Cross Section 70-Yb-168 -0.251 To 1.037 %



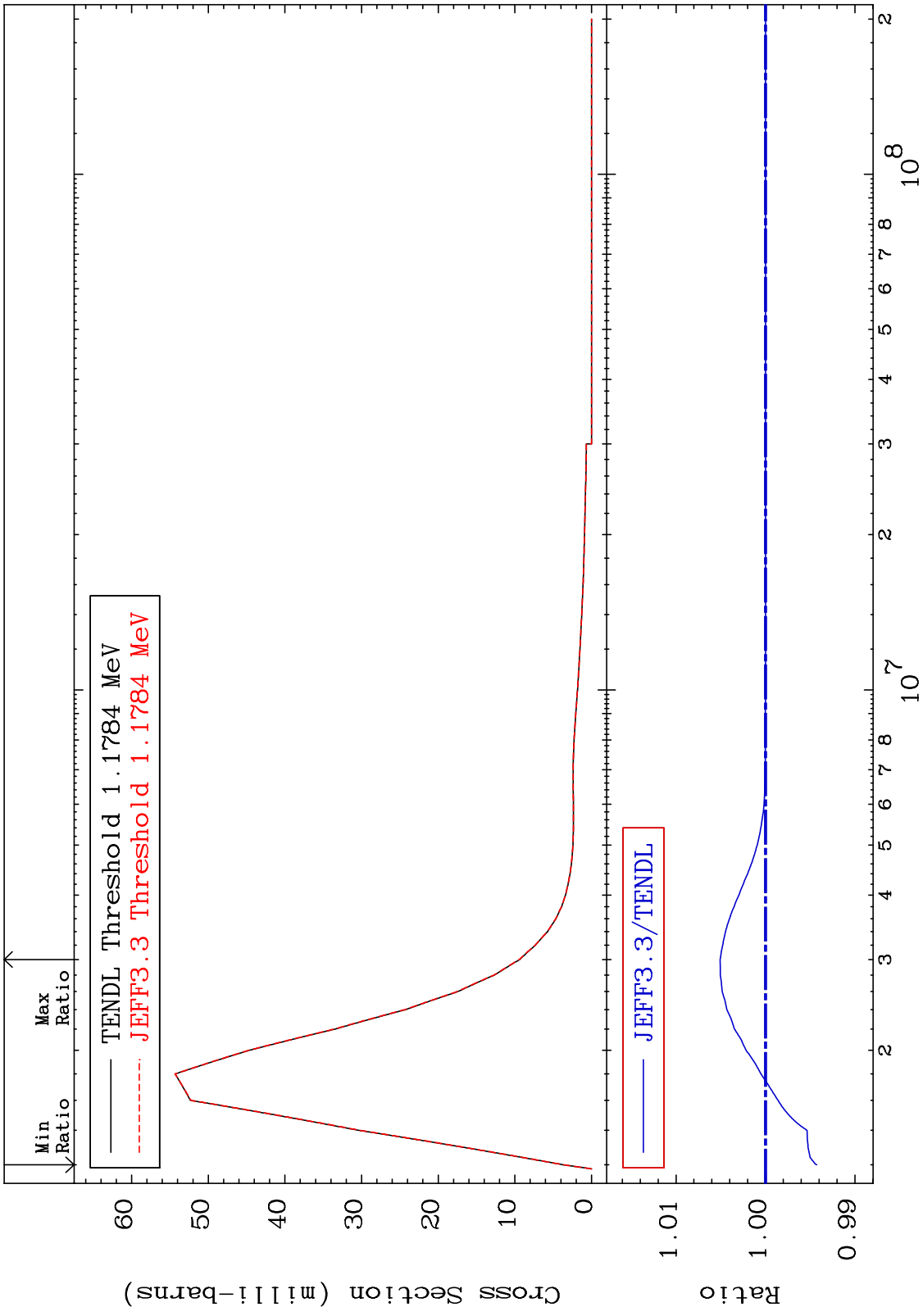
MAT 7025 MT= 58 (n,n') Level Cross Section 70-Yb-168 -0.204 To 1.037 %



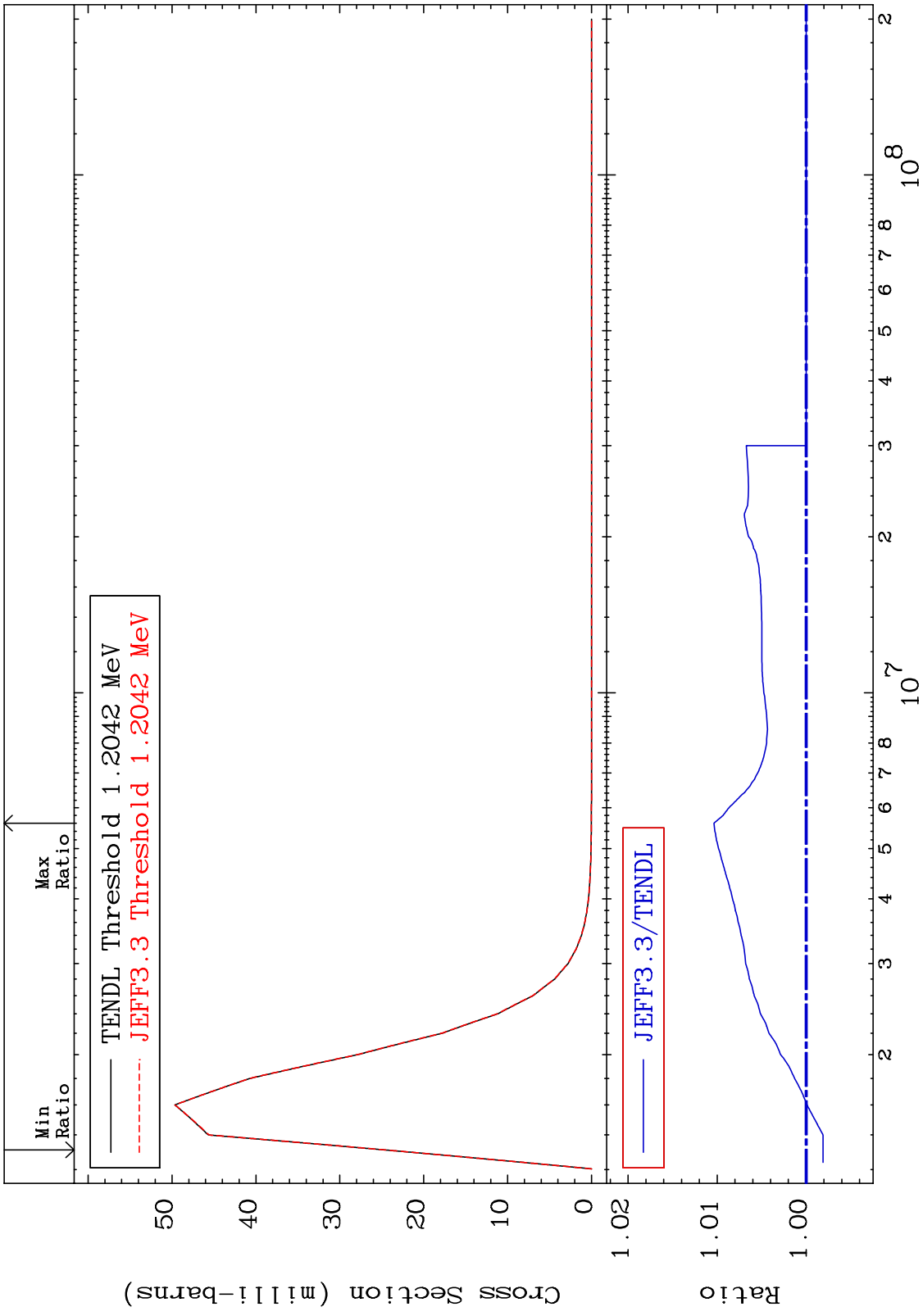
MAT 7025 MT= 59 (n,n') Level Cross Section 70-Yb-168 -0.364 To 0.610 %



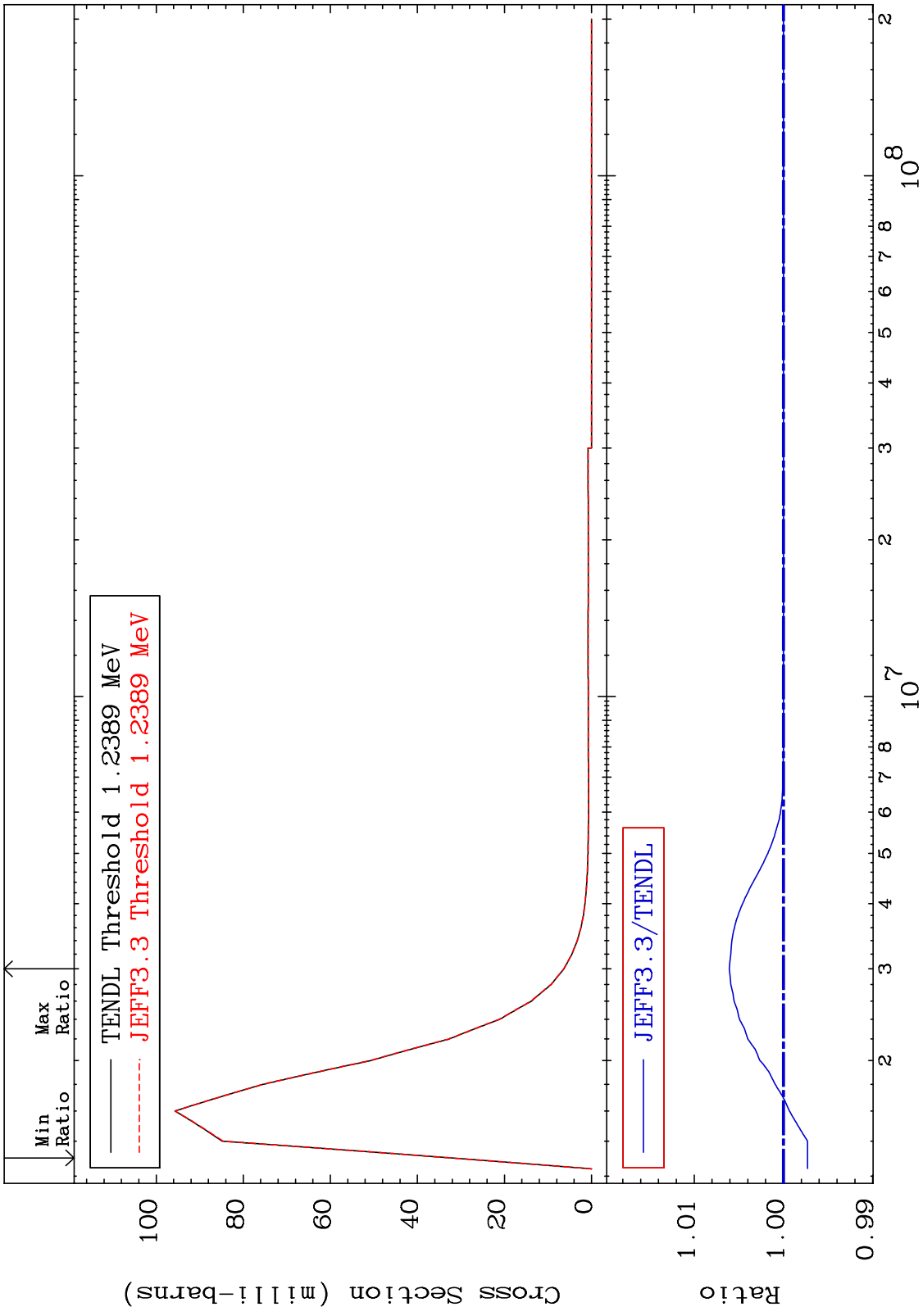
MAT 7025 MT= 60 (n,n') Level Cross Section 70-Yb-168 -0.573 To 0.507 %



MAT 7025 MT= 61 (n,n') Level Cross Section 70-Yb-168 -0.189 To 1.037 %

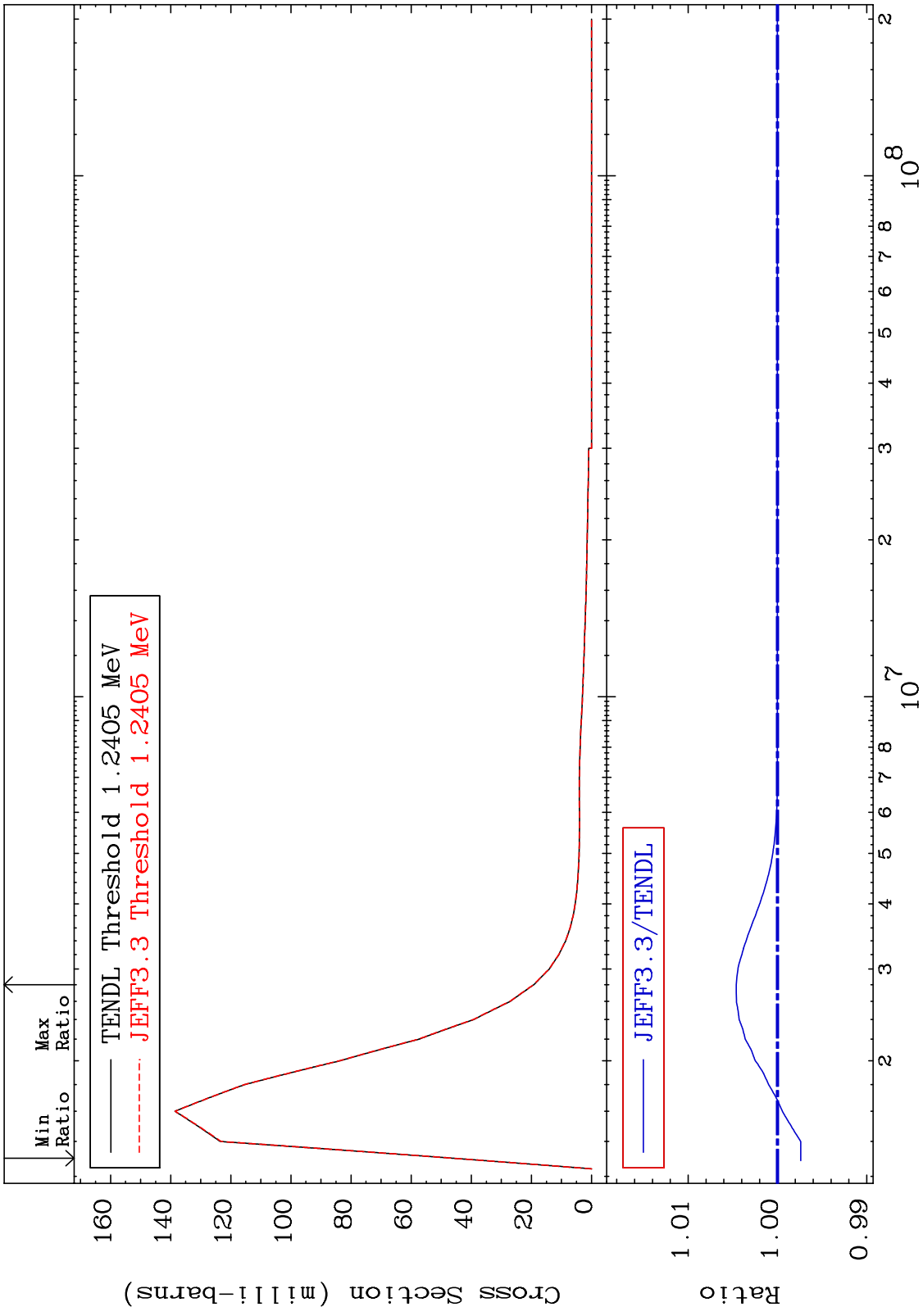


MAT 7025 MT= 62 (n,n') Level Cross Section 70-Yb-168 -0.270 To 0.607 %

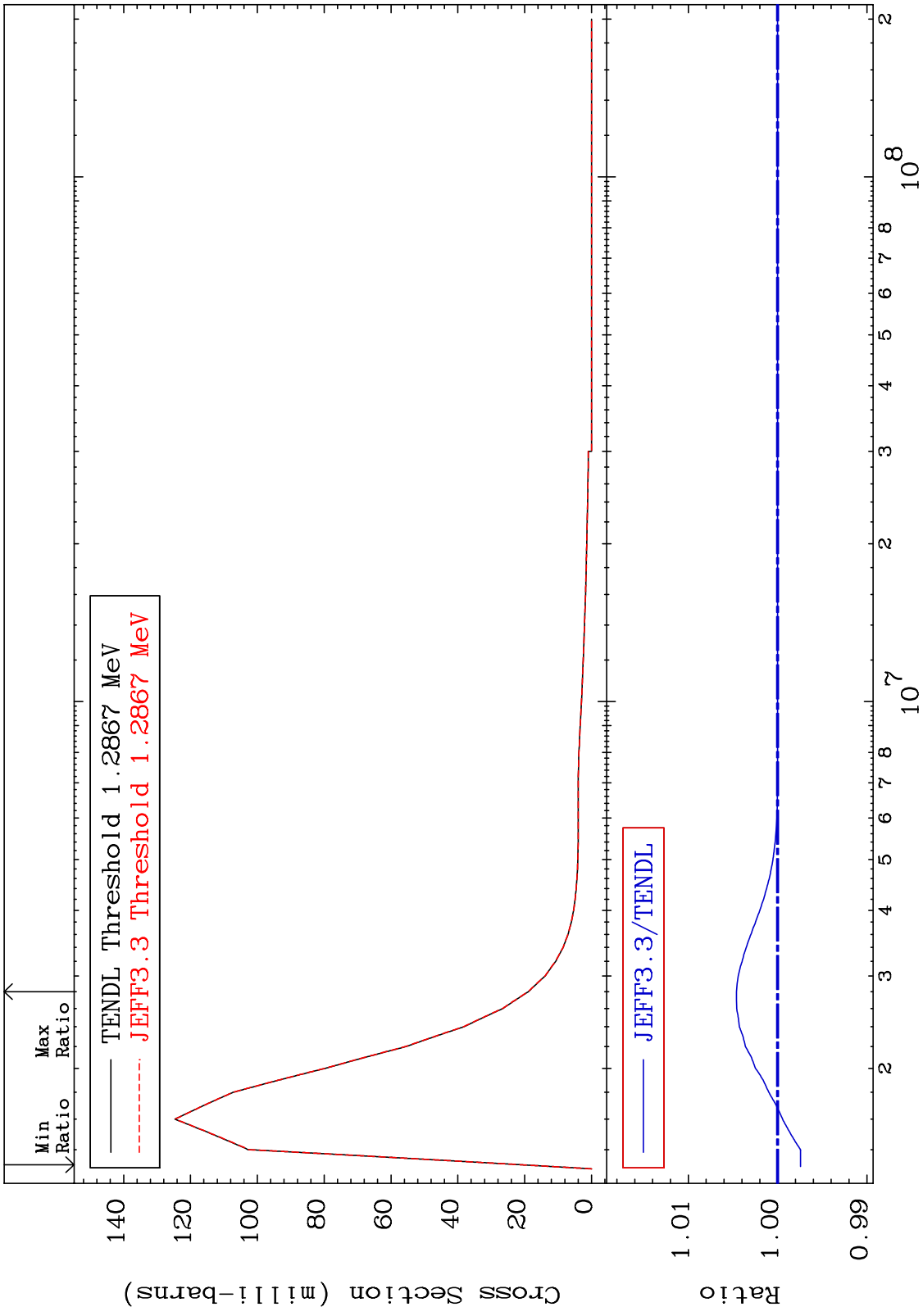




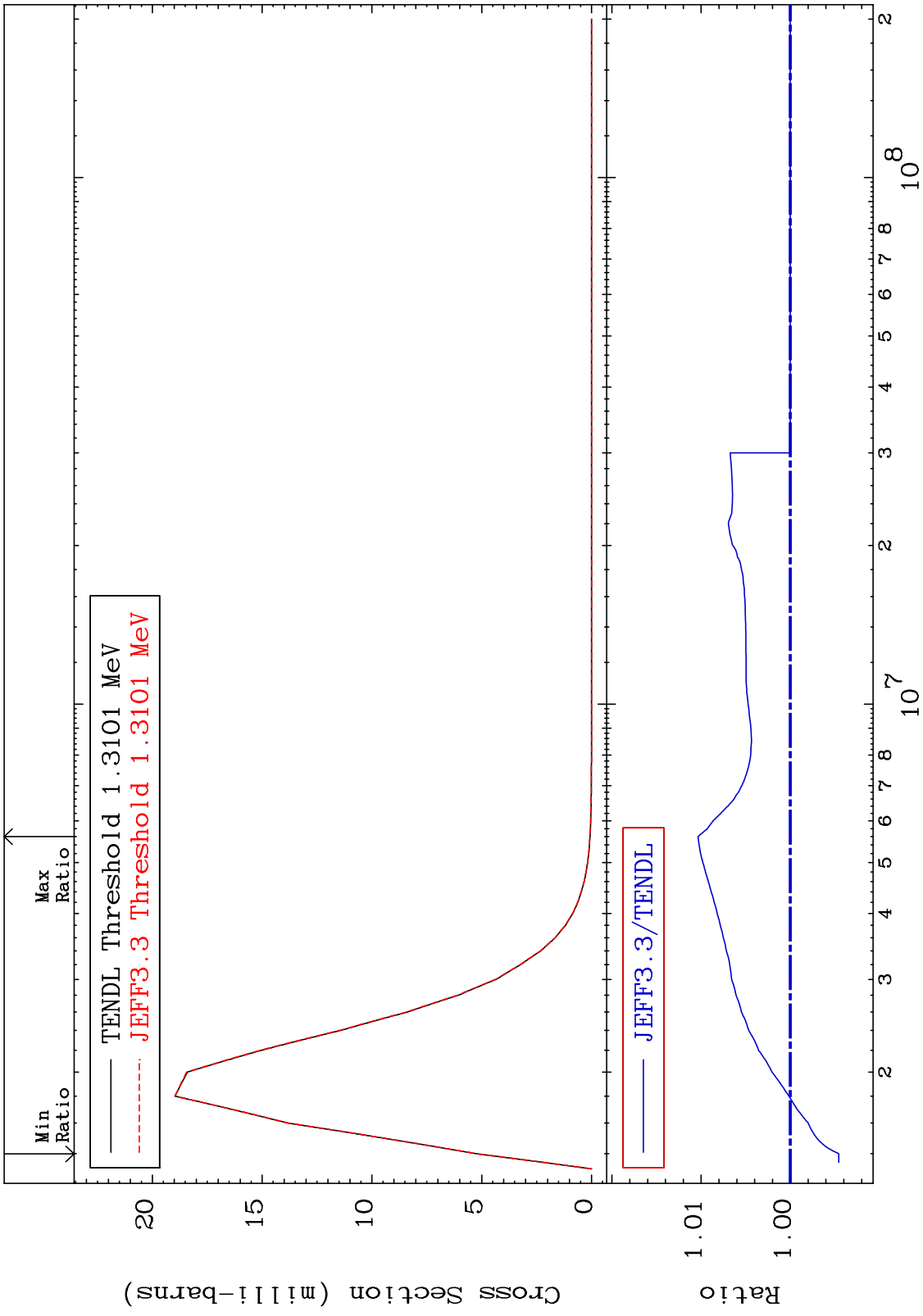
MAT 7025 MT= 63 (n,n') Level Cross Section -0.261 To 0.462 % 70-Yb-168



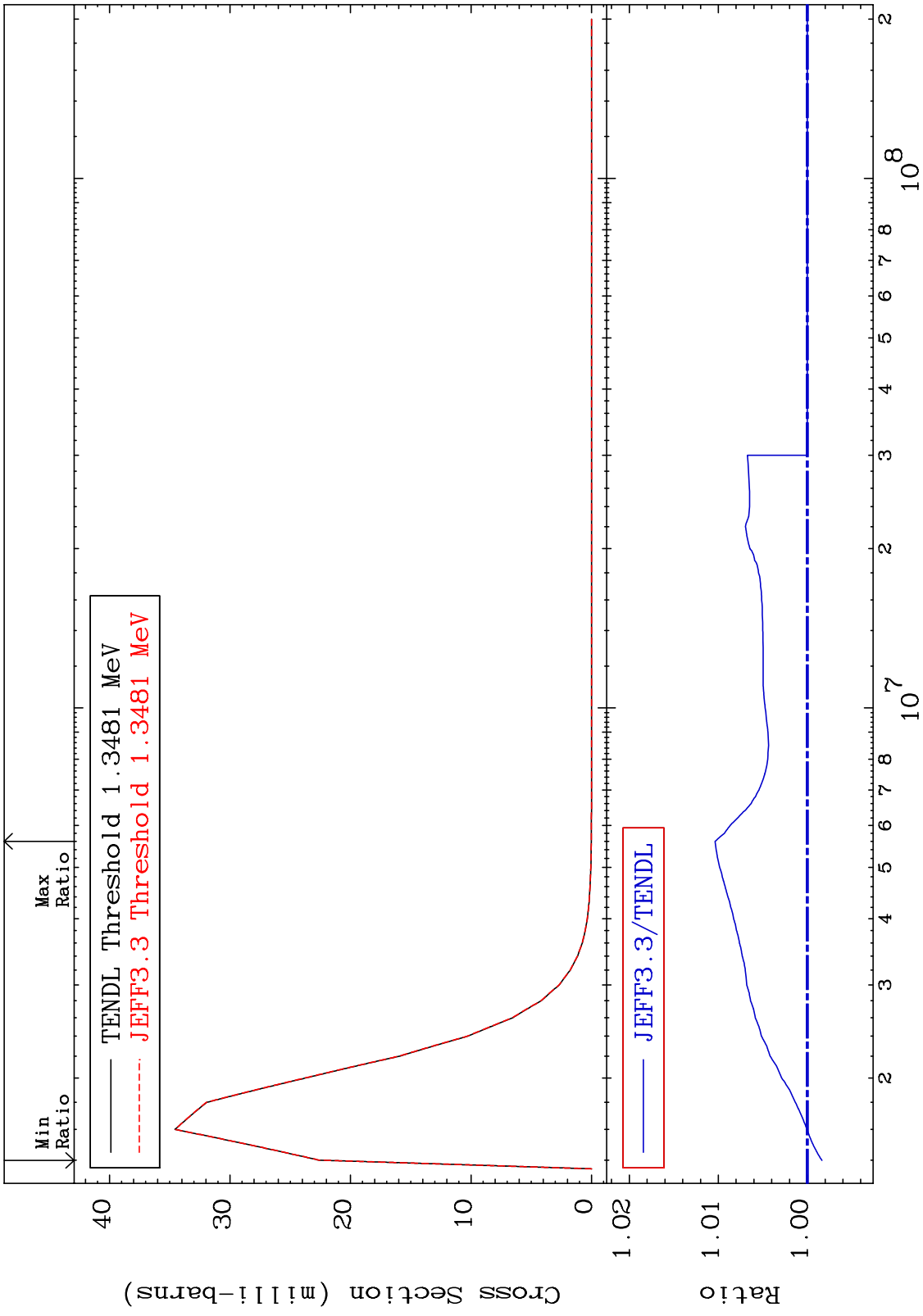
MAT 7025 MT= 64 (n,n') Level Cross Section -0.256 To 0.461 % 70-Yb-168



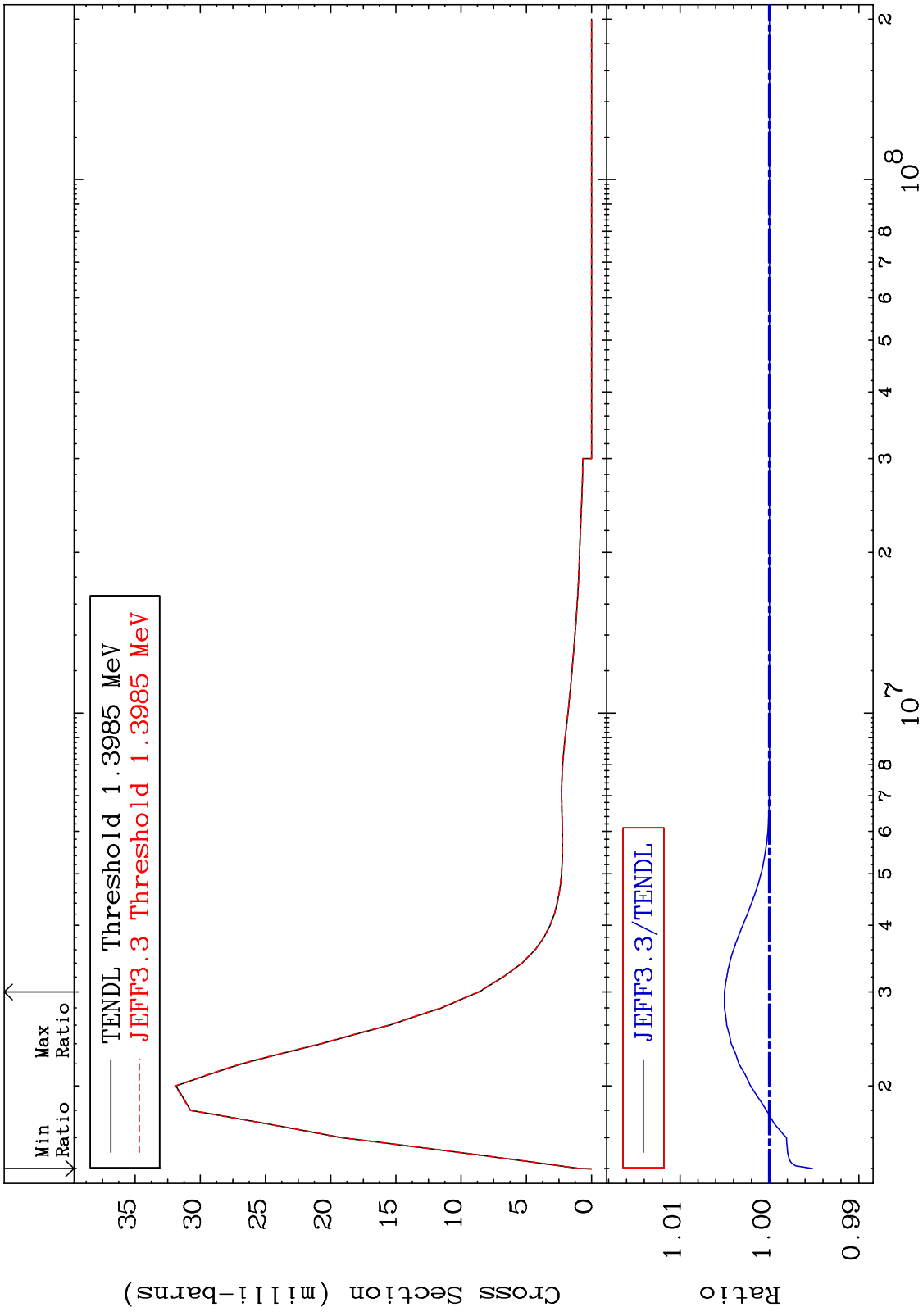
MAT 7025 MT= 65 (n,n') Level Cross Section 70-Yb-168  
 -0.545 To 1.035 %



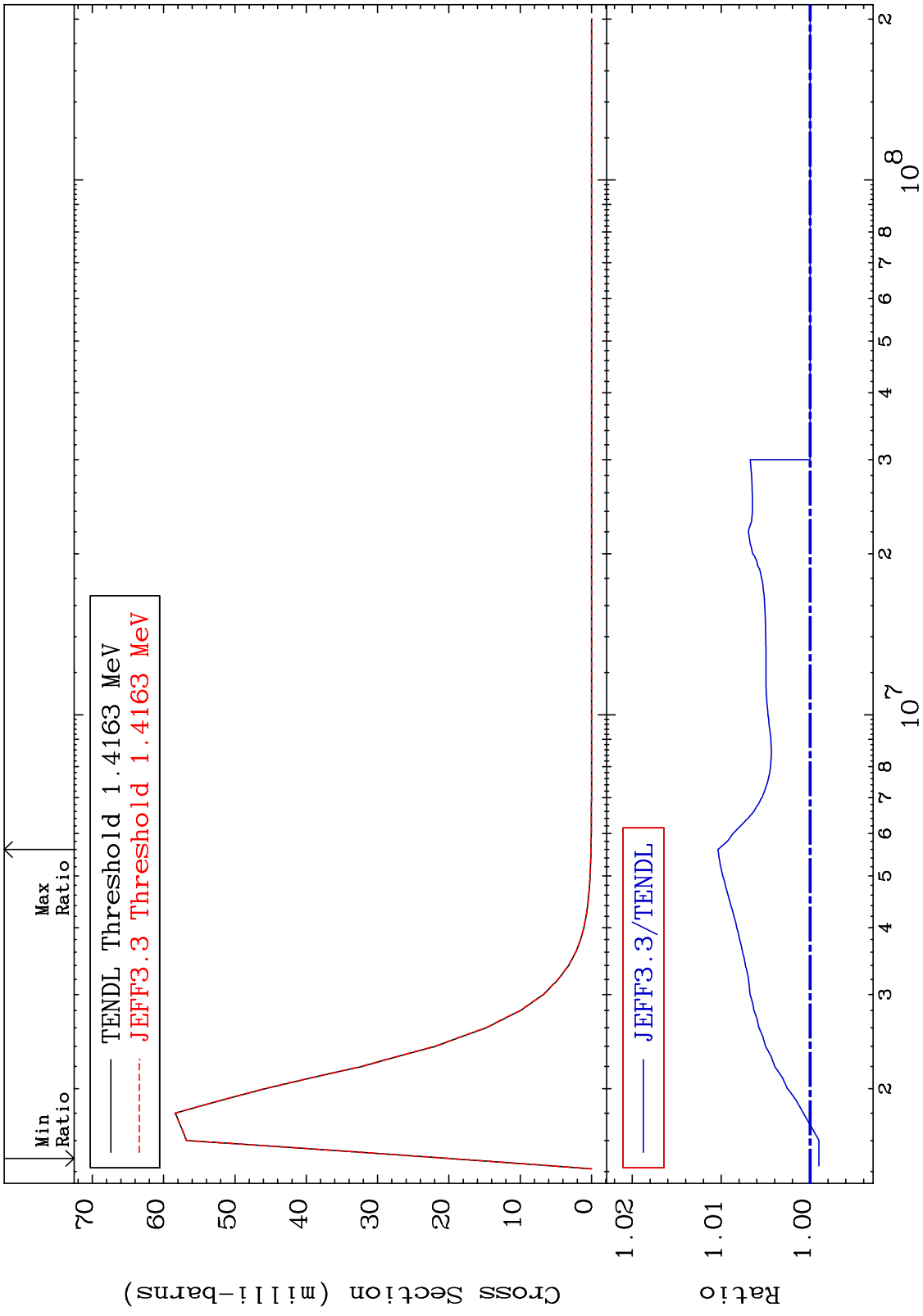
MAT 7025 MT= 66 (n,n') Level Cross Section 70-Yb-168 -0.163 To 1.037 %



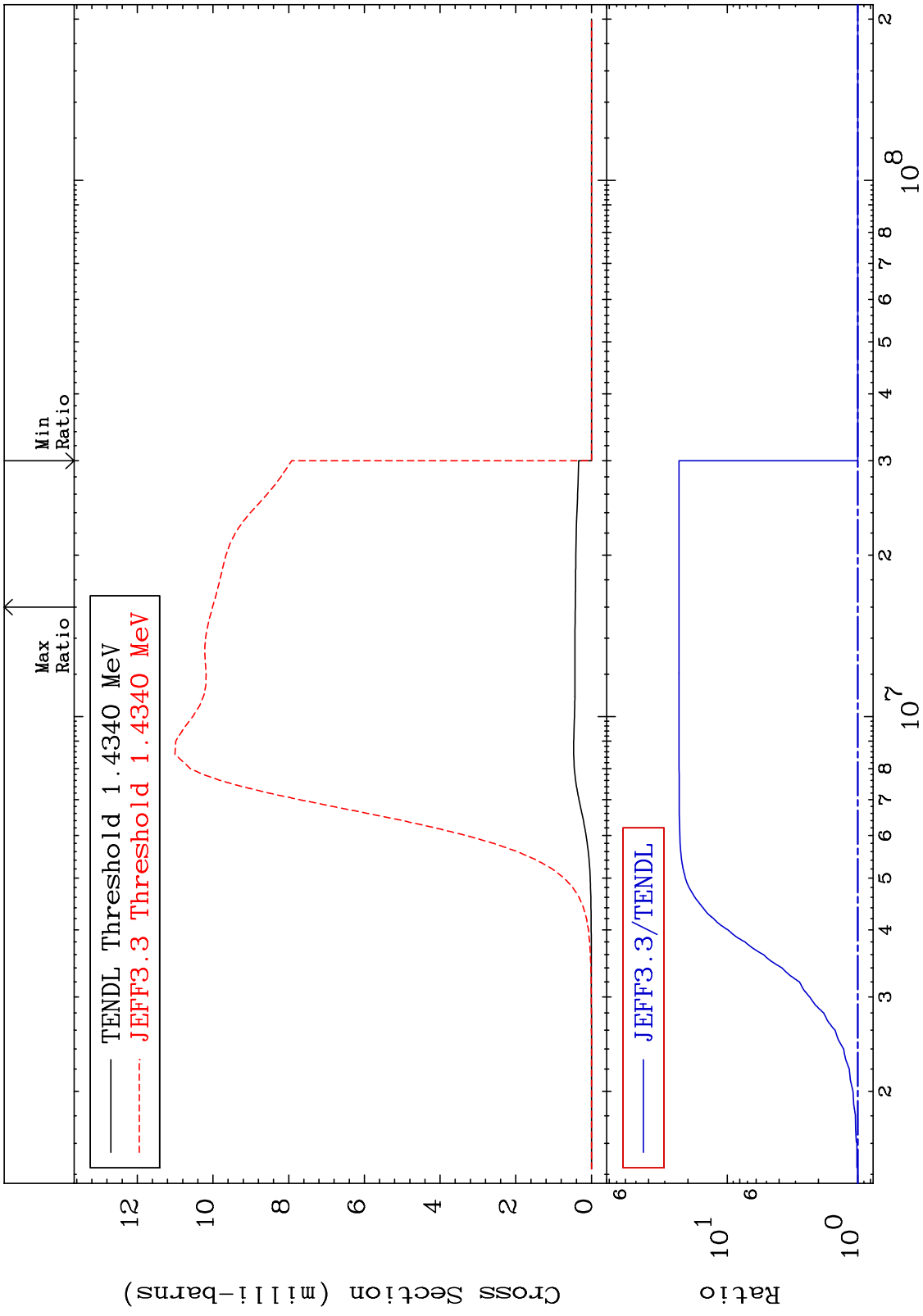
MAT 7025 MT= 67 (n,n') Level Cross Section 70-Yb-168 -0.482 To 0.504 %



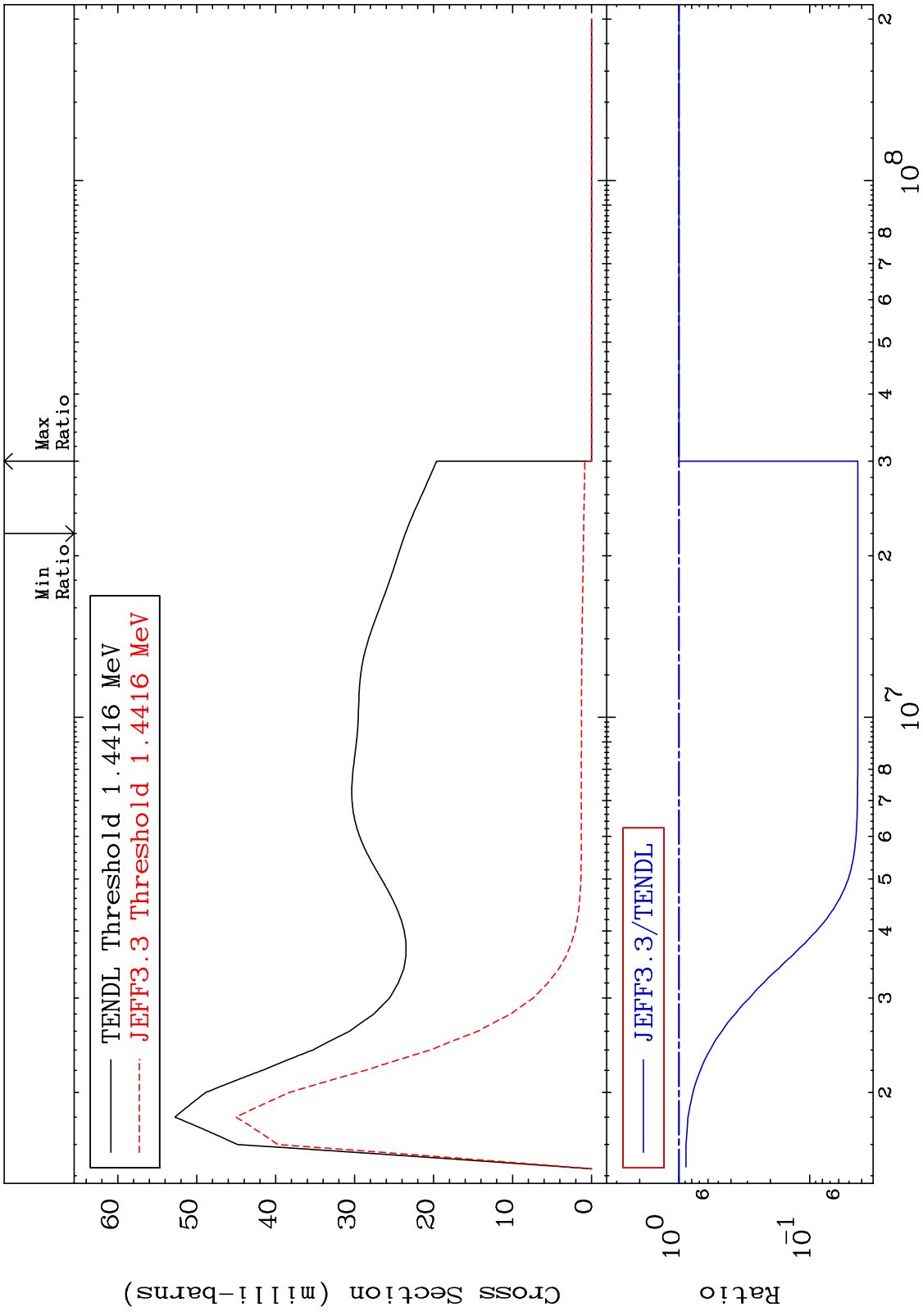
MAT 7025 MT= 68 (n,n') Level Cross Section 70-Yb-168 -0.098 To 1.037 %



MAT 7025 MT= 69 (n,n') Level Cross Section 70-Yb-168 To 2236. %

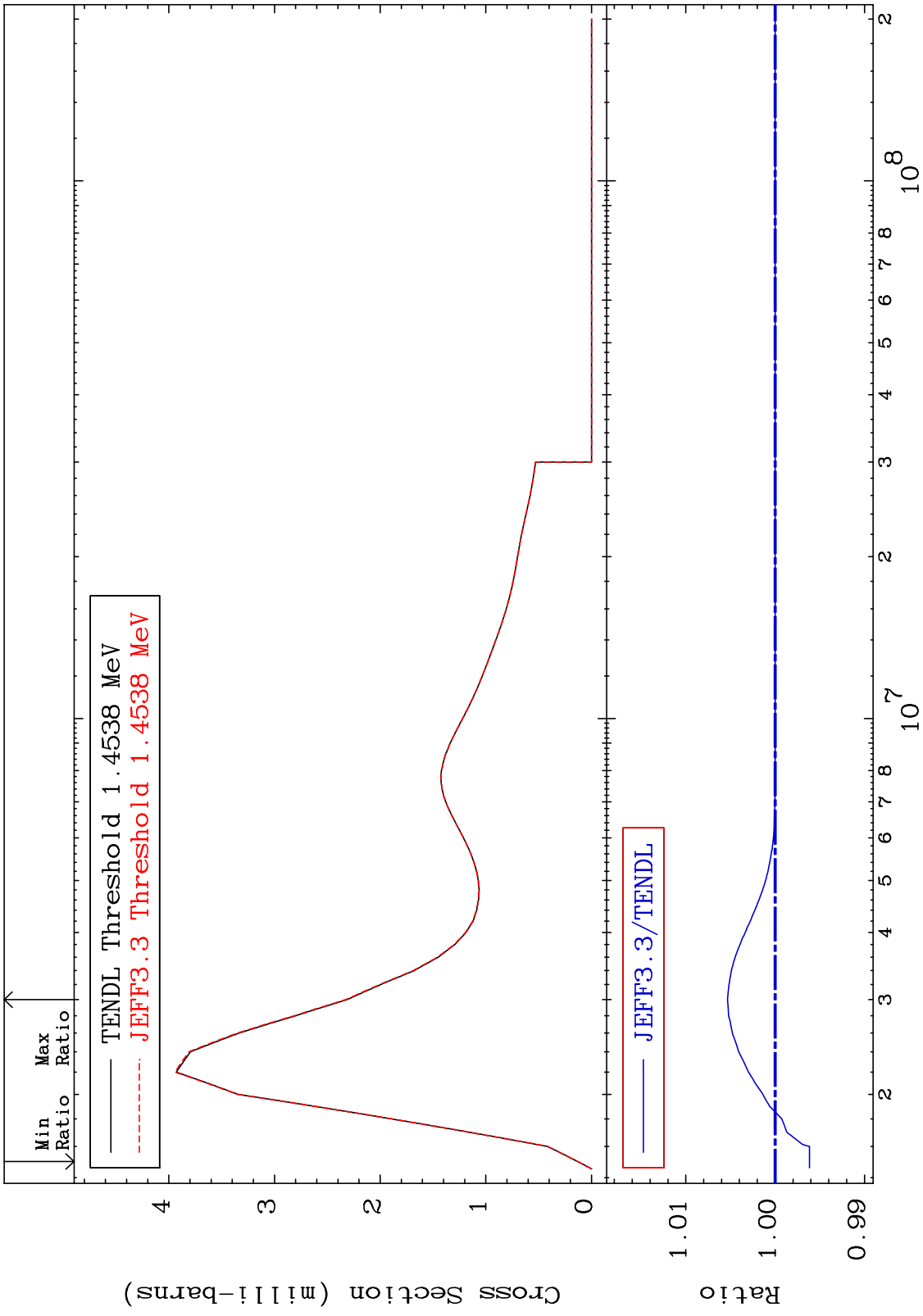


MAT 7025 MT= 70 (n,n') Level Cross Section 70-Yb-168 -95.72 To 0.000 %

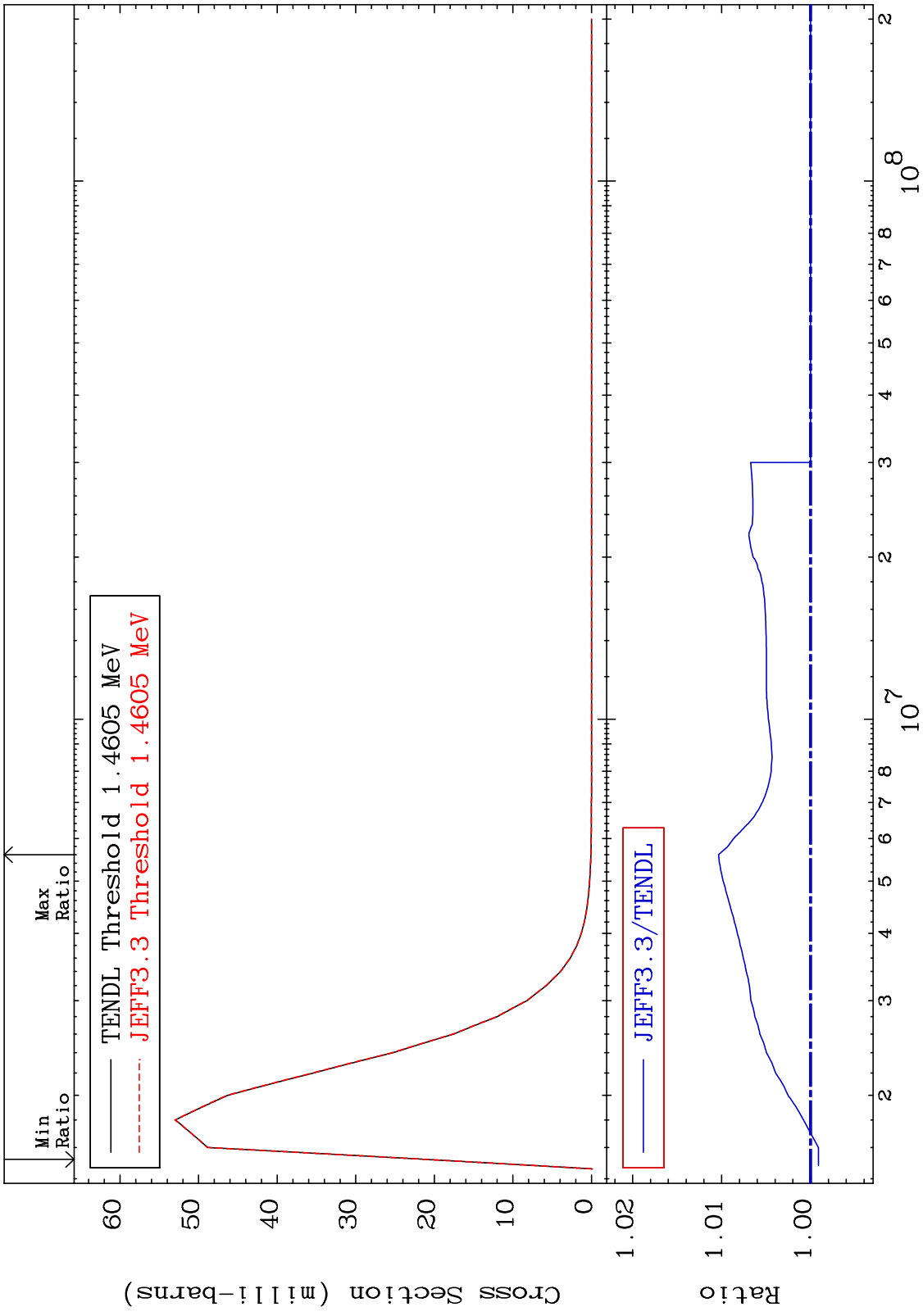




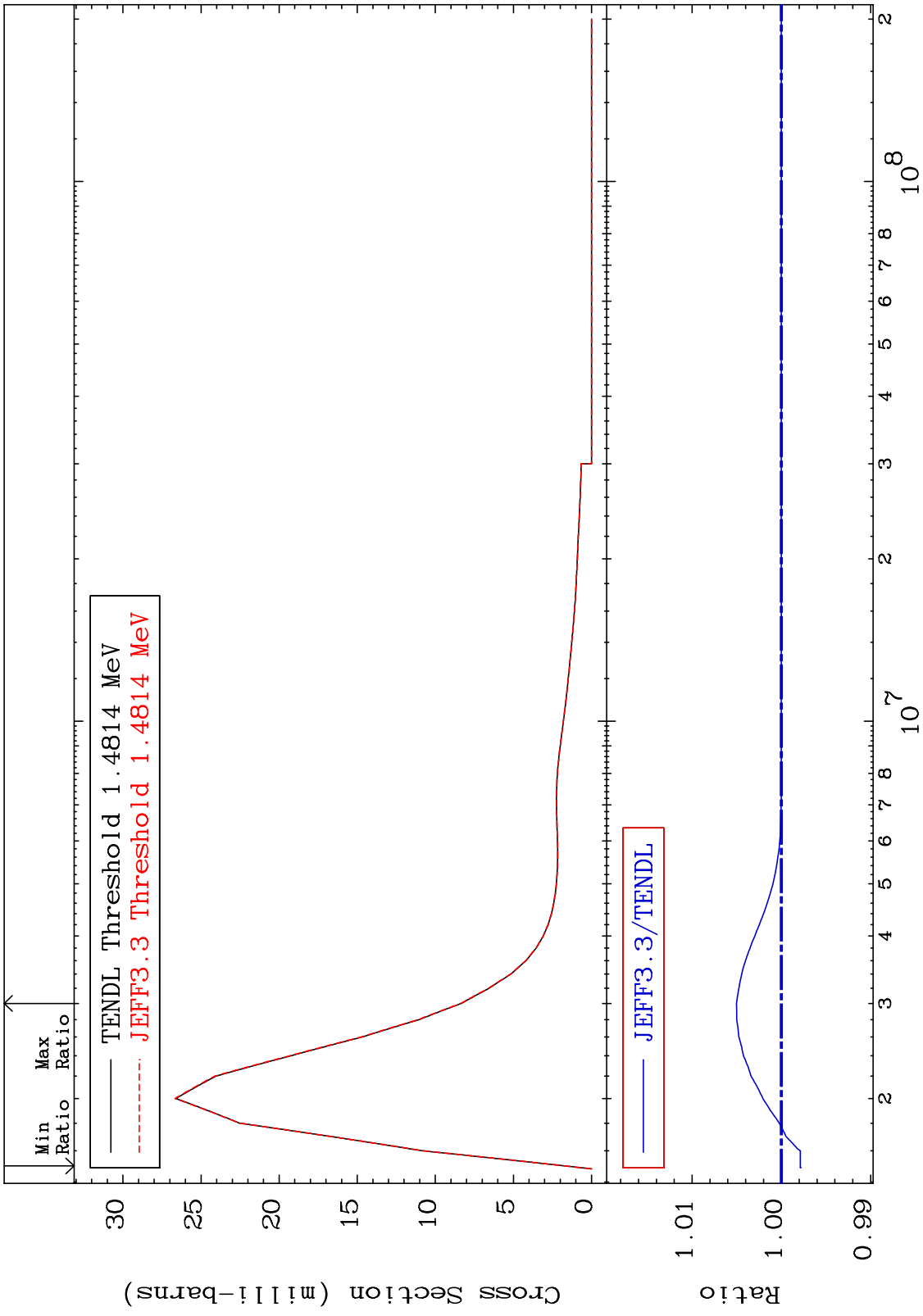
MAT 7025 MT= 71 (n,n') Level Cross Section 70-Yb-168 -0.384 To 0.535 %



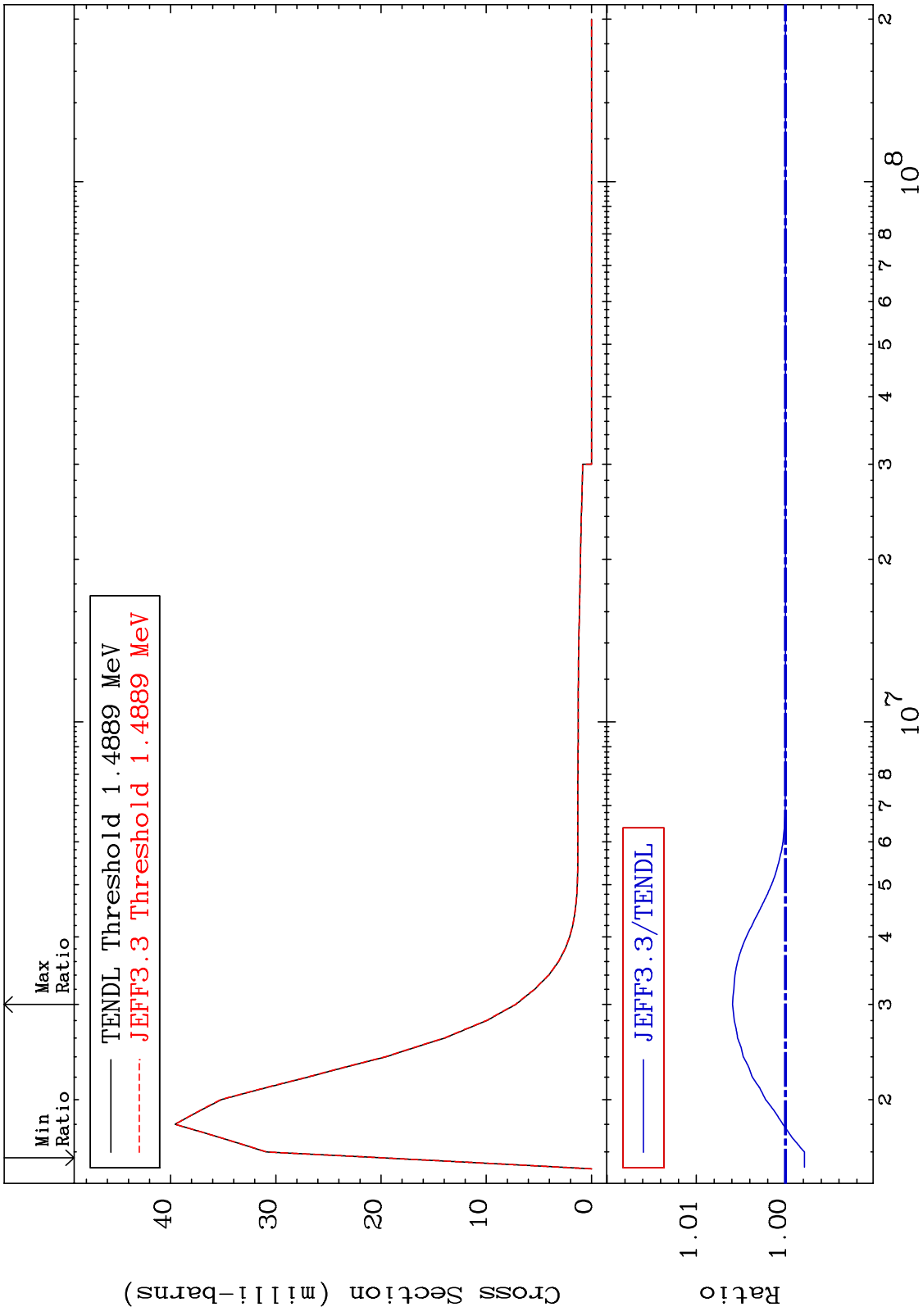
MAT 7025 MT= 72 (n,n') Level Cross Section 70-Yb-168 -0.087 To 1.036 %



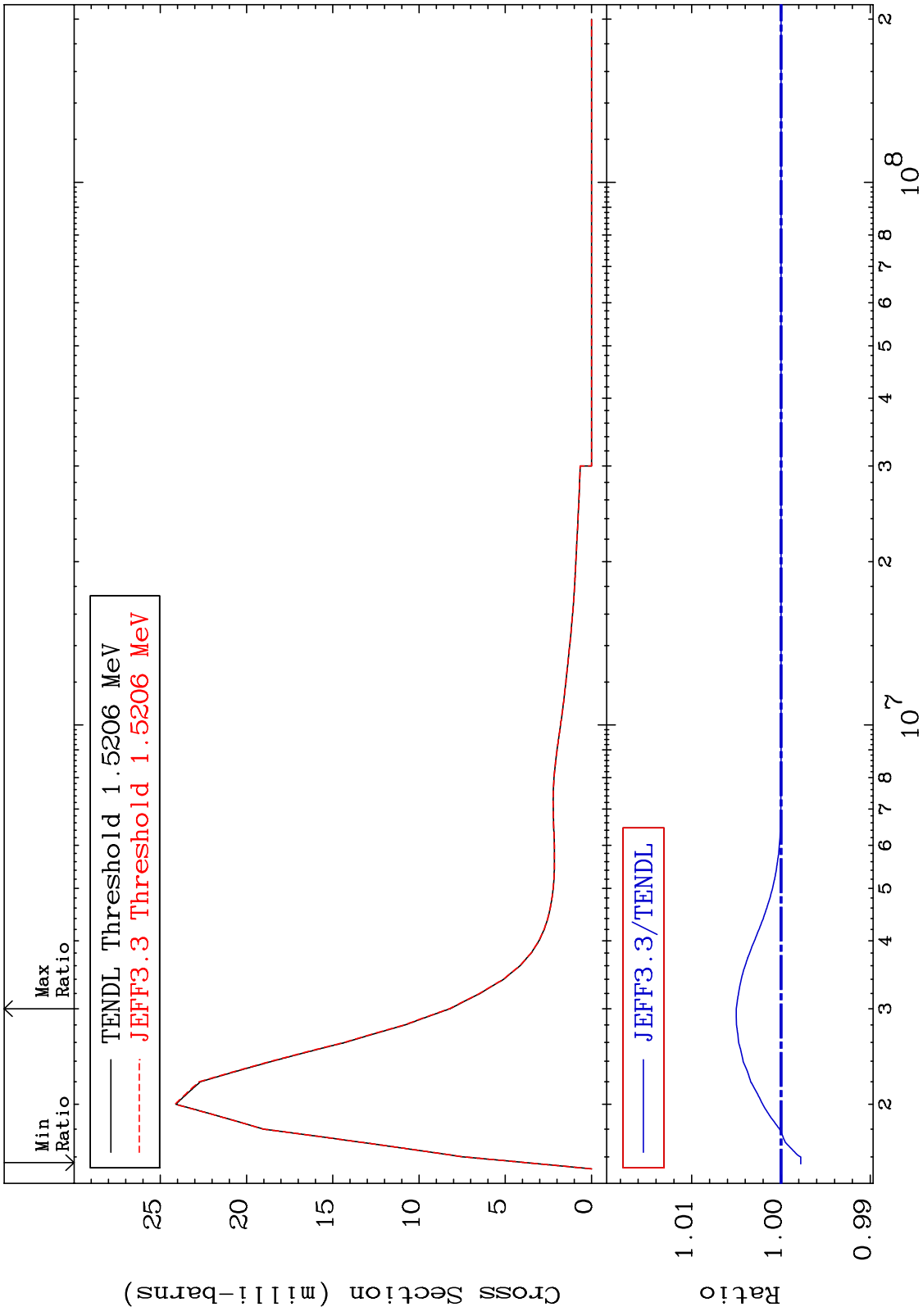
MAT 7025 MT= 73 (n,n') Level Cross Section 70-Yb-168 -0.213 To 0.502 %



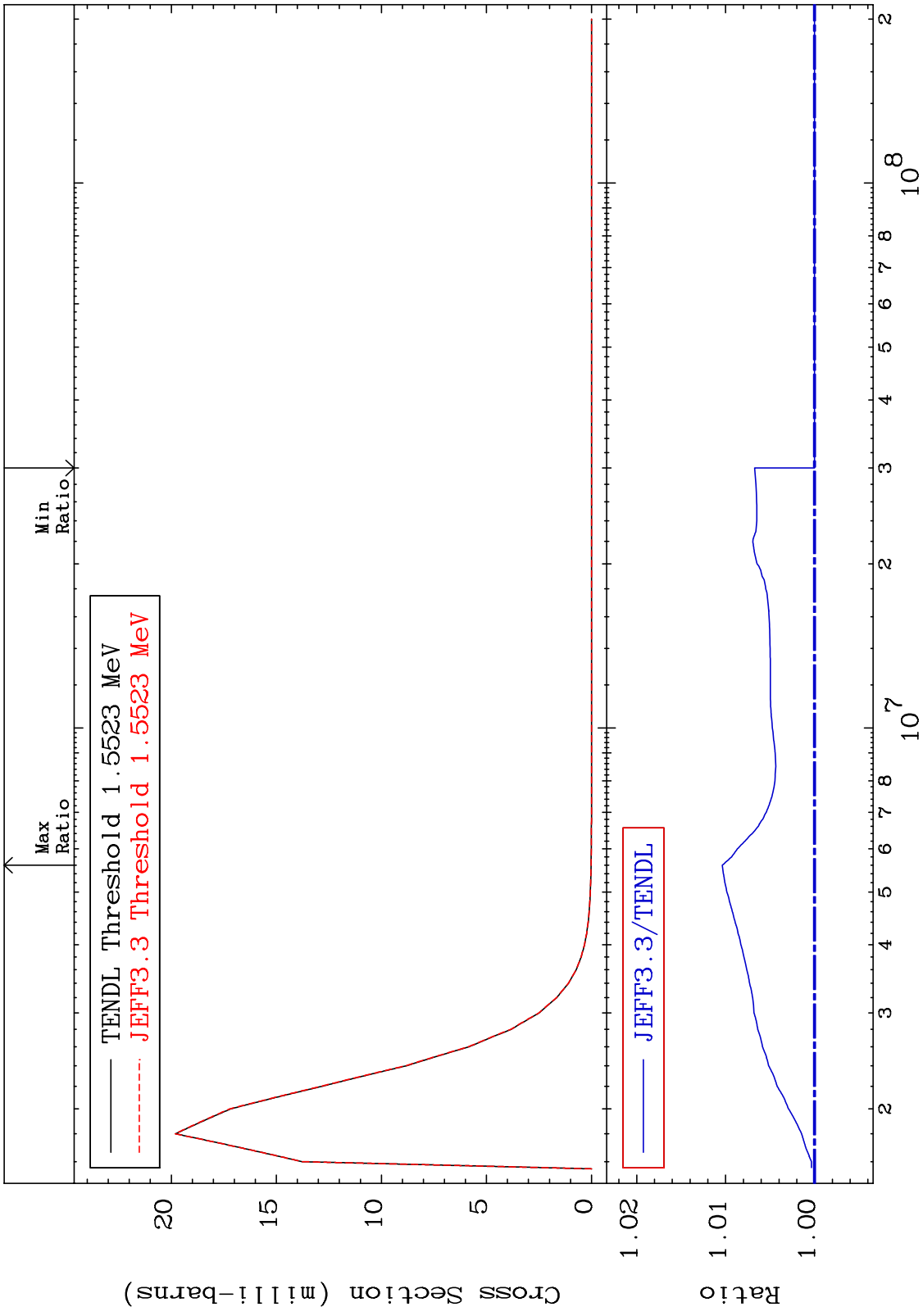
MAT 7025 MT= 74 (n,n') Level Cross Section 70-Yb-168 -0.211 To 0.594 %



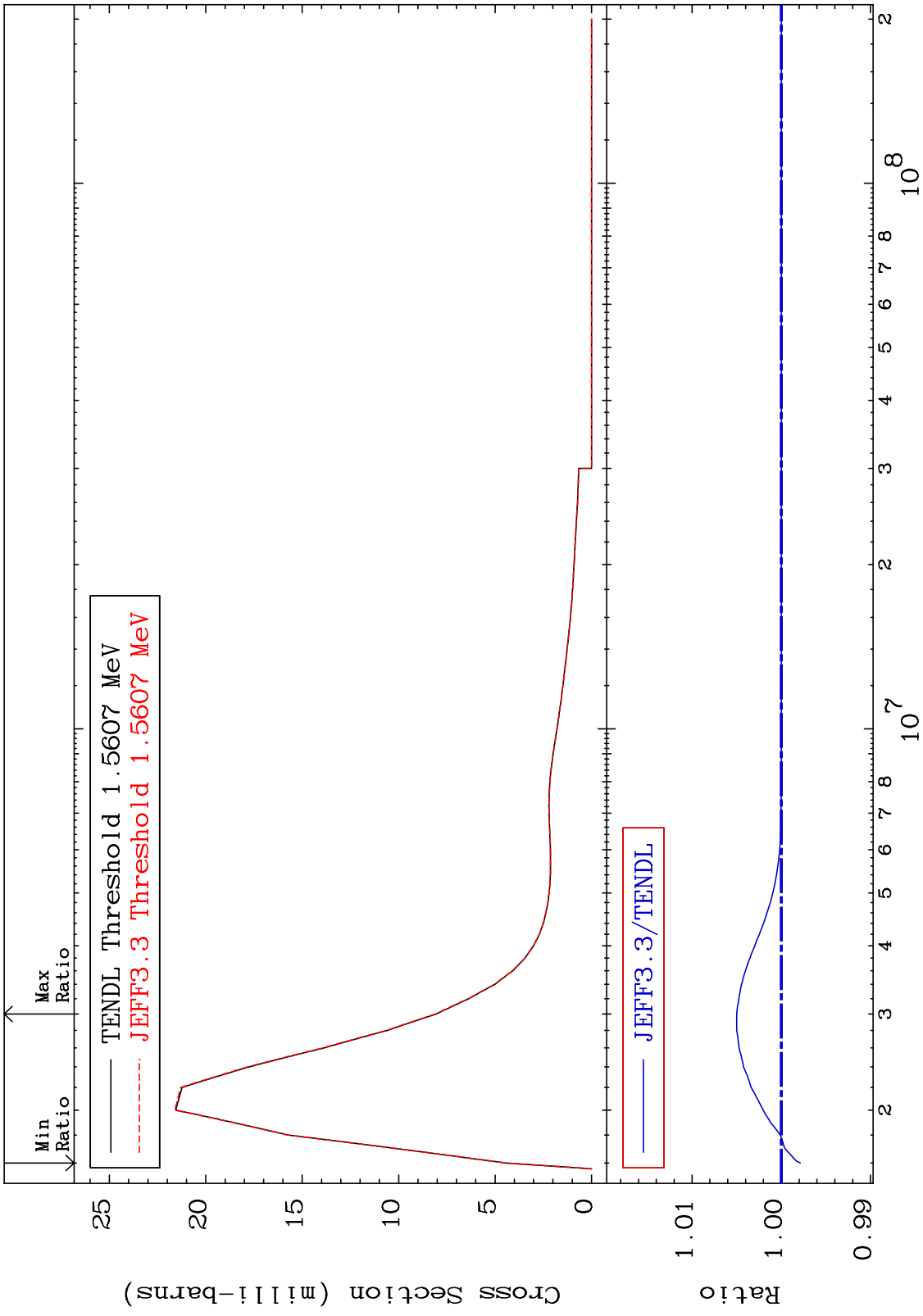
MAT 7025 MT= 75 (n,n') Level Cross Section 70-Yb-168  
 -0.220 To 0.501 %



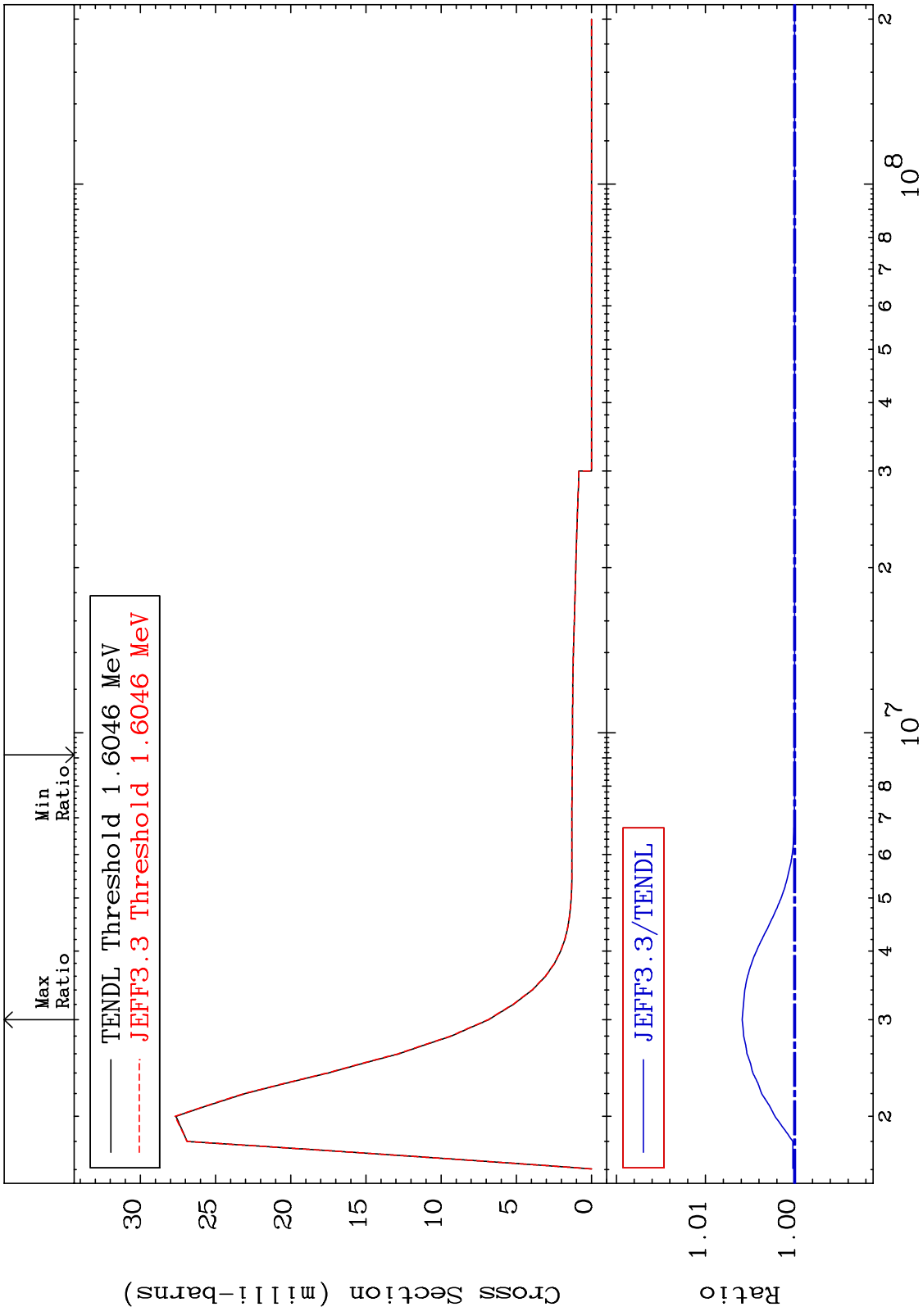
MAT 7025 MT= 76 (n,n') Level Cross Section 70-Yb-168 To 1.037 %



MAT 7025 MT= 77 (n,n') Level Cross Section 70-Yb-168 -0.213 To 0.500 %

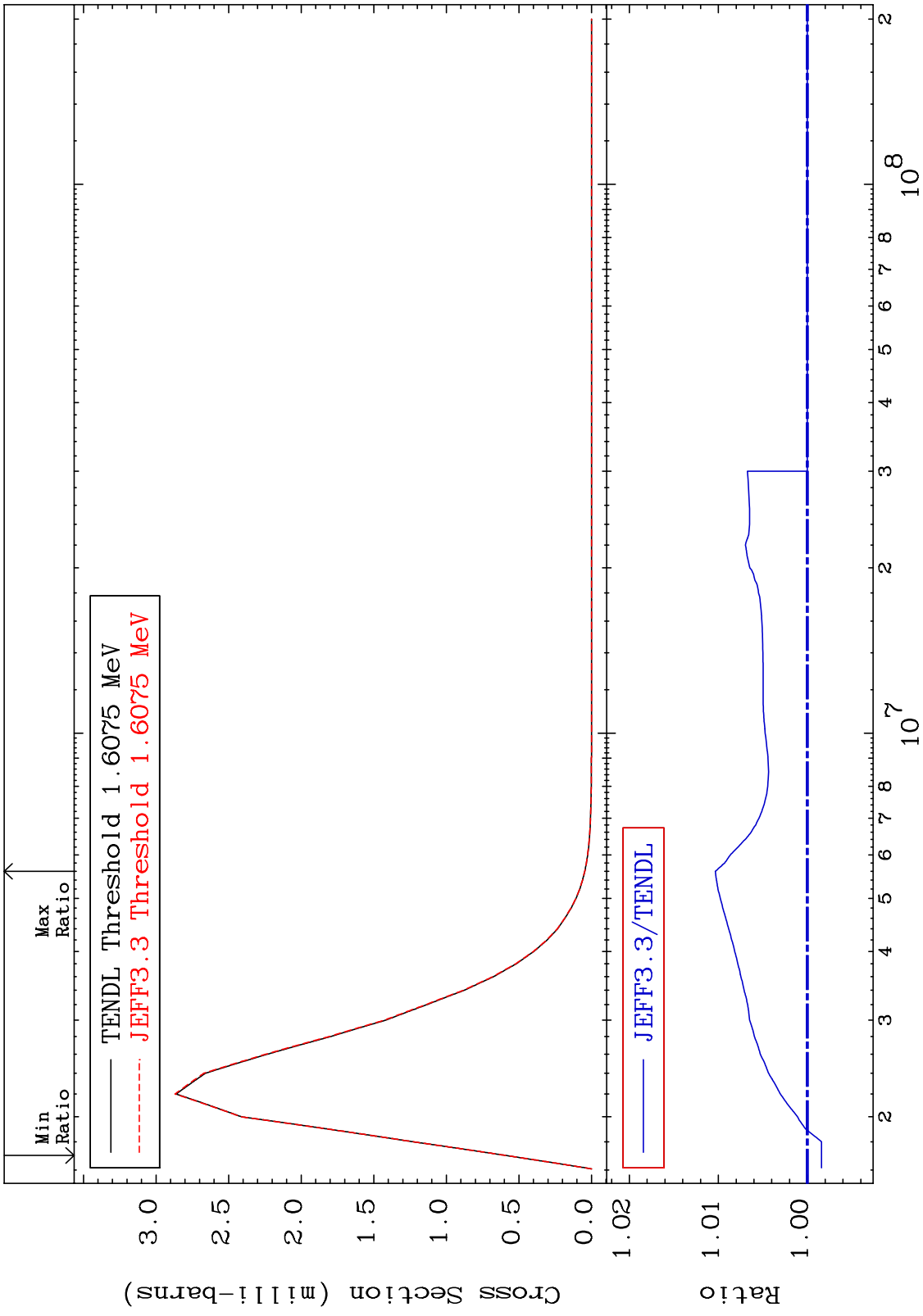


MAT 7025 MT= 78 (n,n') Level Cross Section 70-Yb-168 To 0.588 %

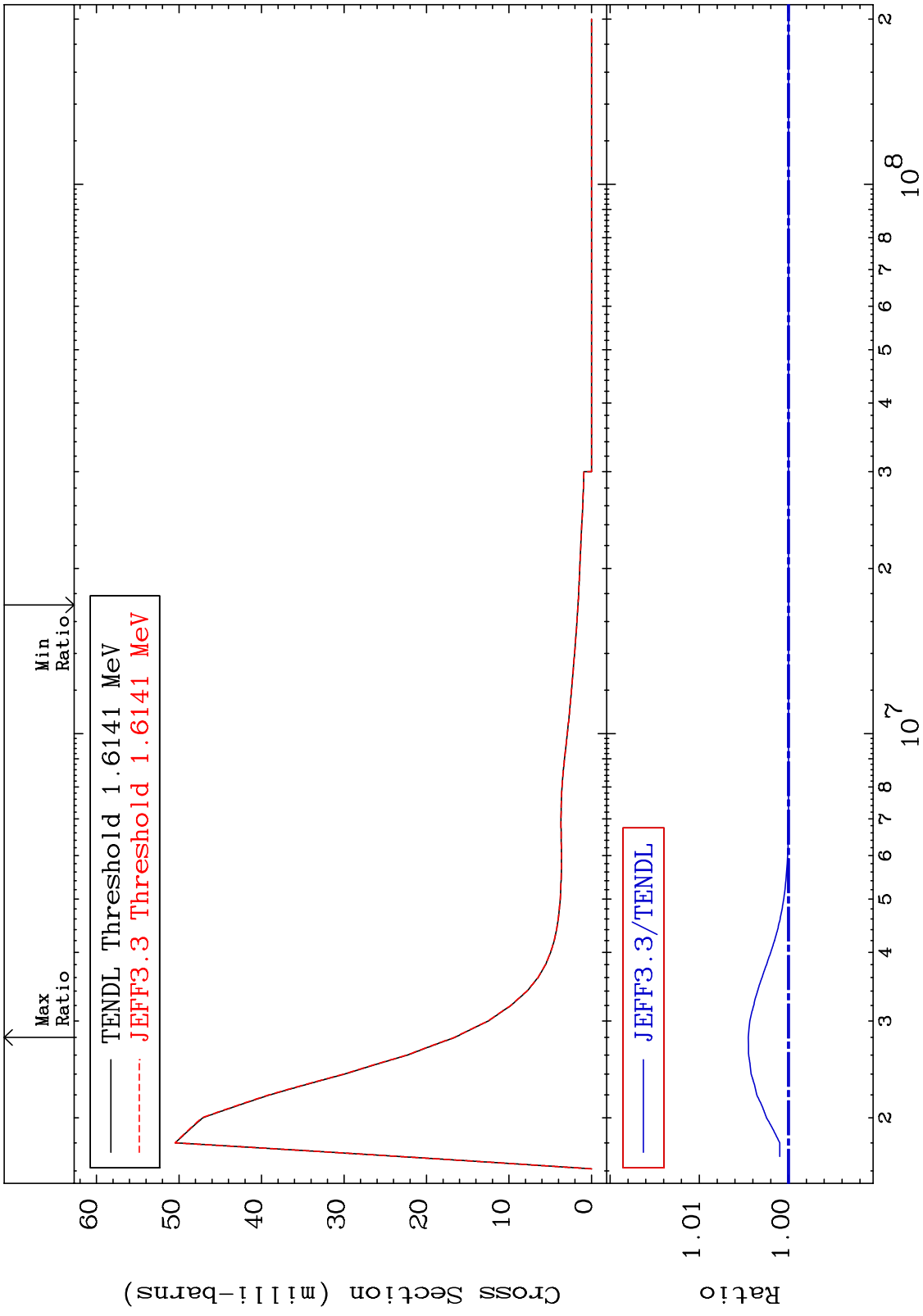




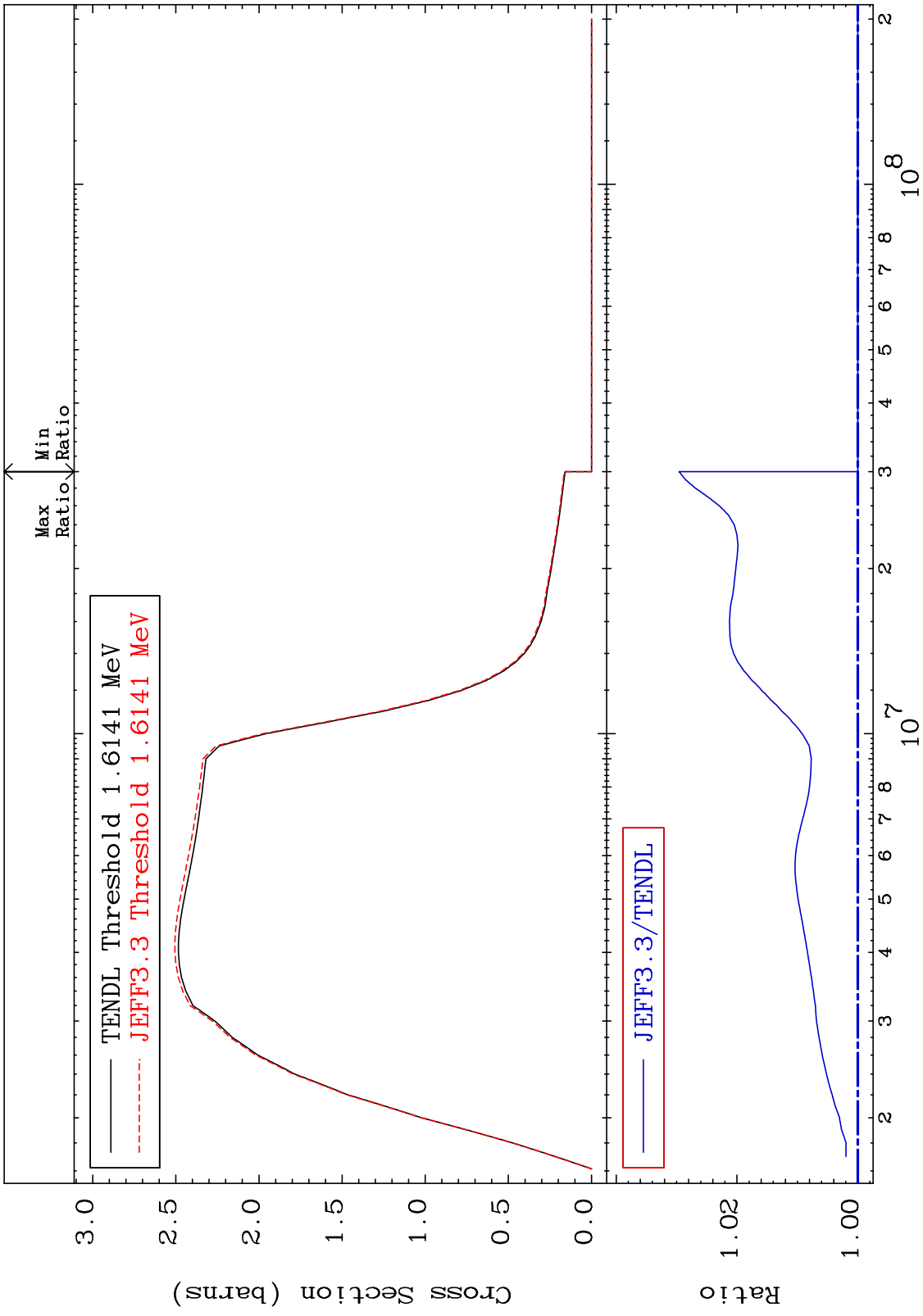
MAT 7025 MT= 79 (n,n') Level Cross Section 70-Yb-168 -0.160 To 1.035 %



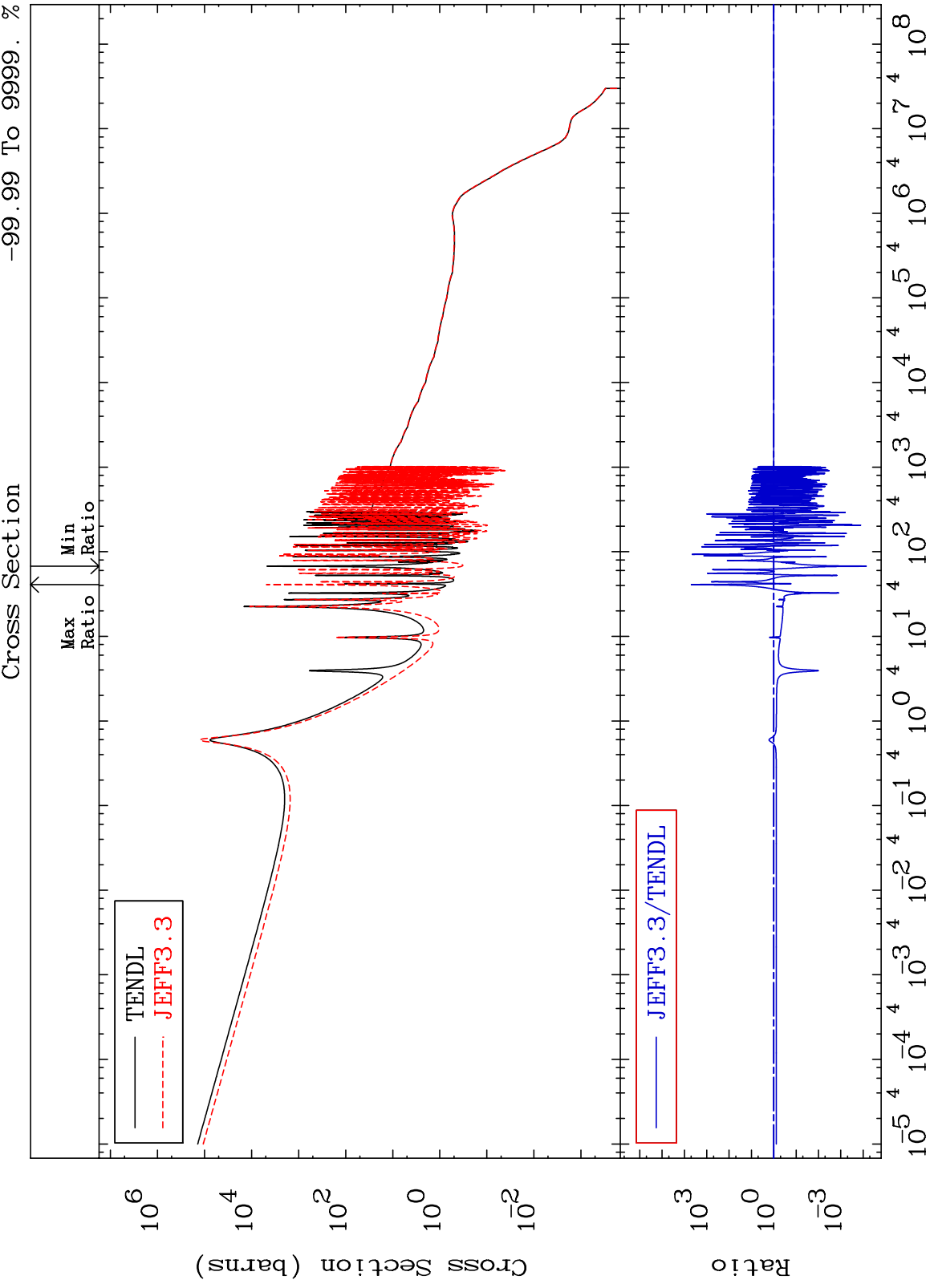
MAT 7025 MT= 80 (n,n') Level Cross Section 70-Yb-168 To 0.450 %



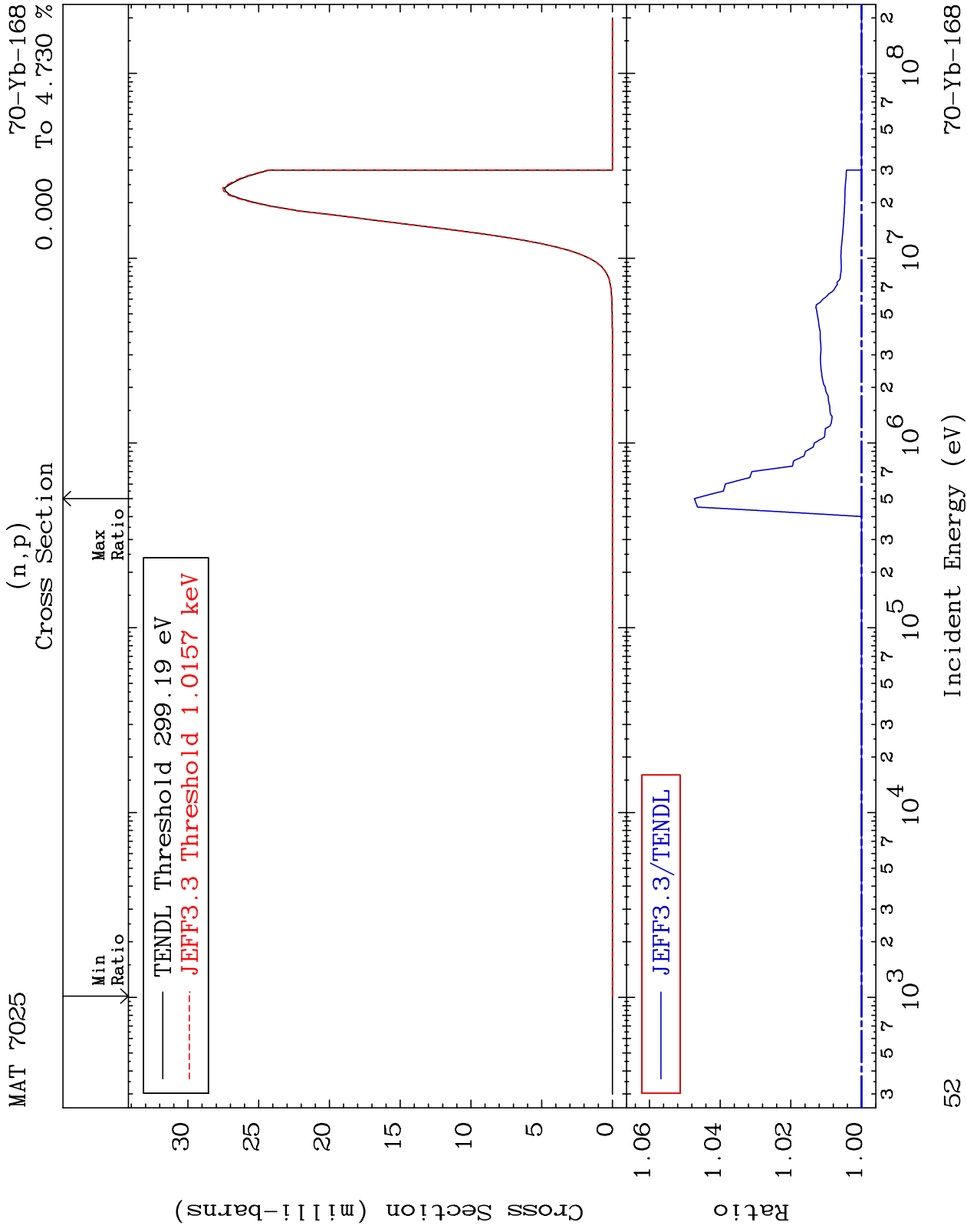
MAT 7025 (n, n') Continuum Cross Section 70-Yb-168 To 2.959 %



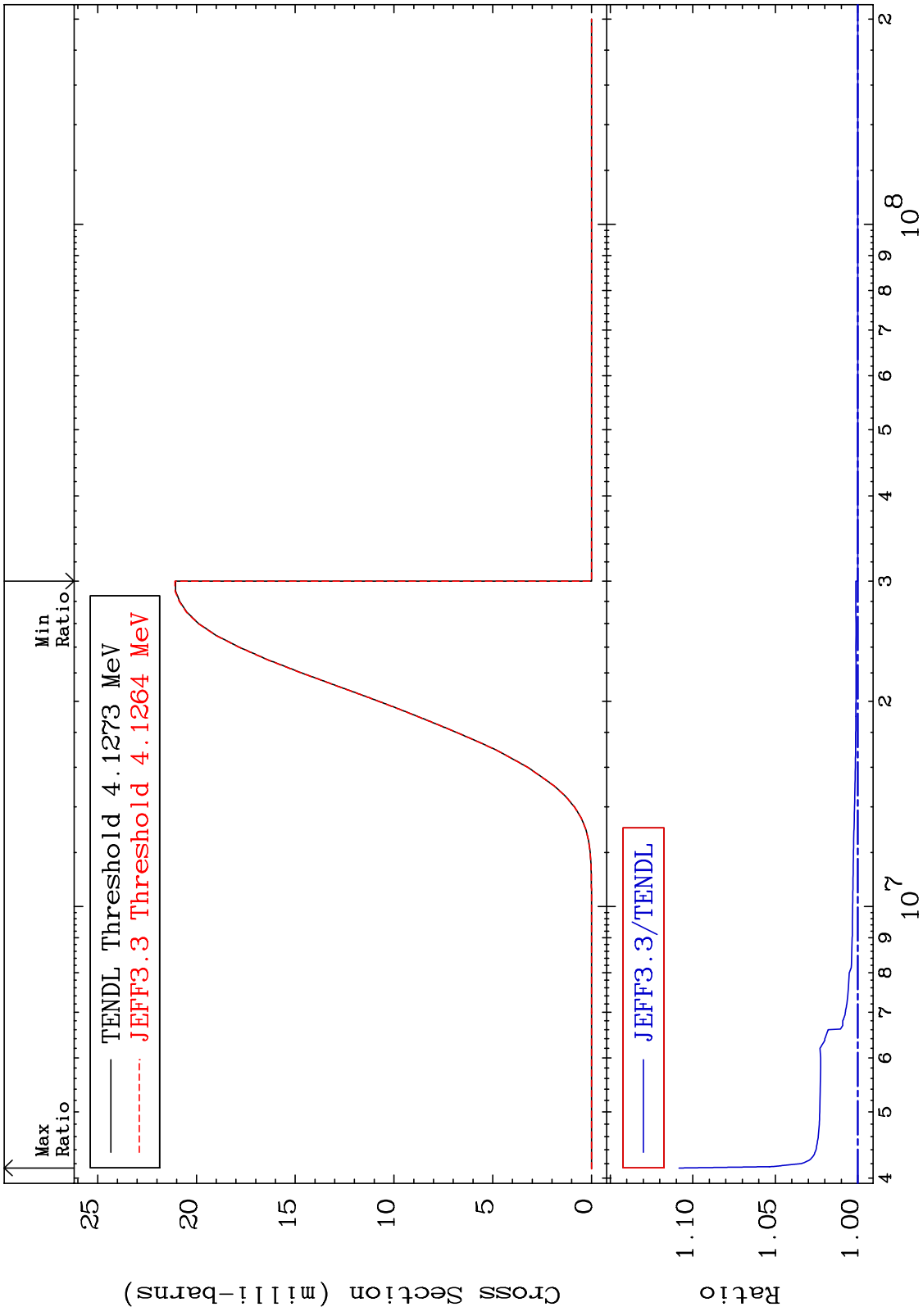
MAT 7025  $(n, \gamma)$  70-Yb-168 -99.99 To 9999. %



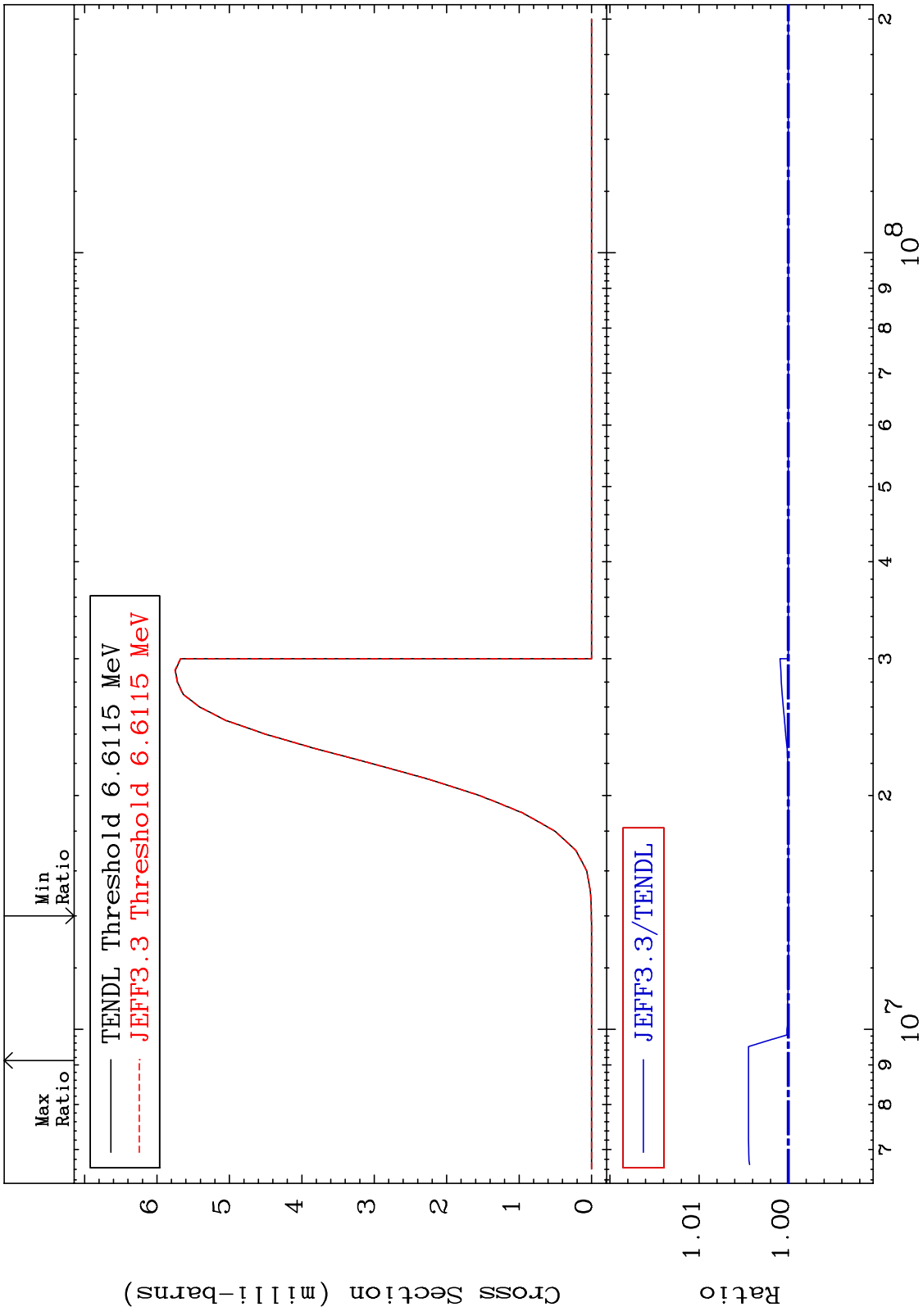
51 Incident Energy (eV) 70-Yb-168



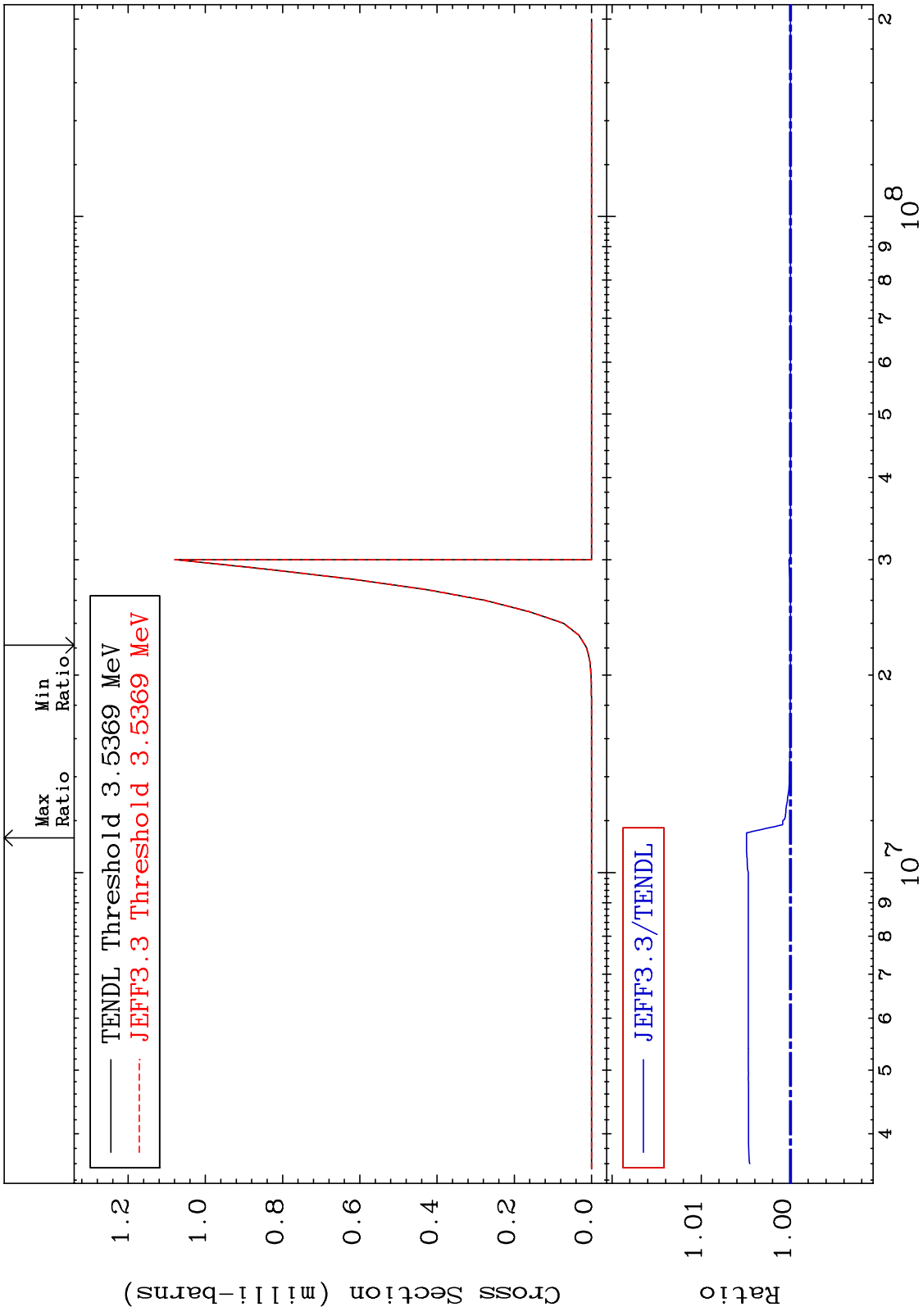
MAT 7025 (n,d) Cross Section 70-Yb-168 To 10.83 %



MAT 7025 (n,t) 70-Yb-168  
Cross Section -0.001 To 0.448 %

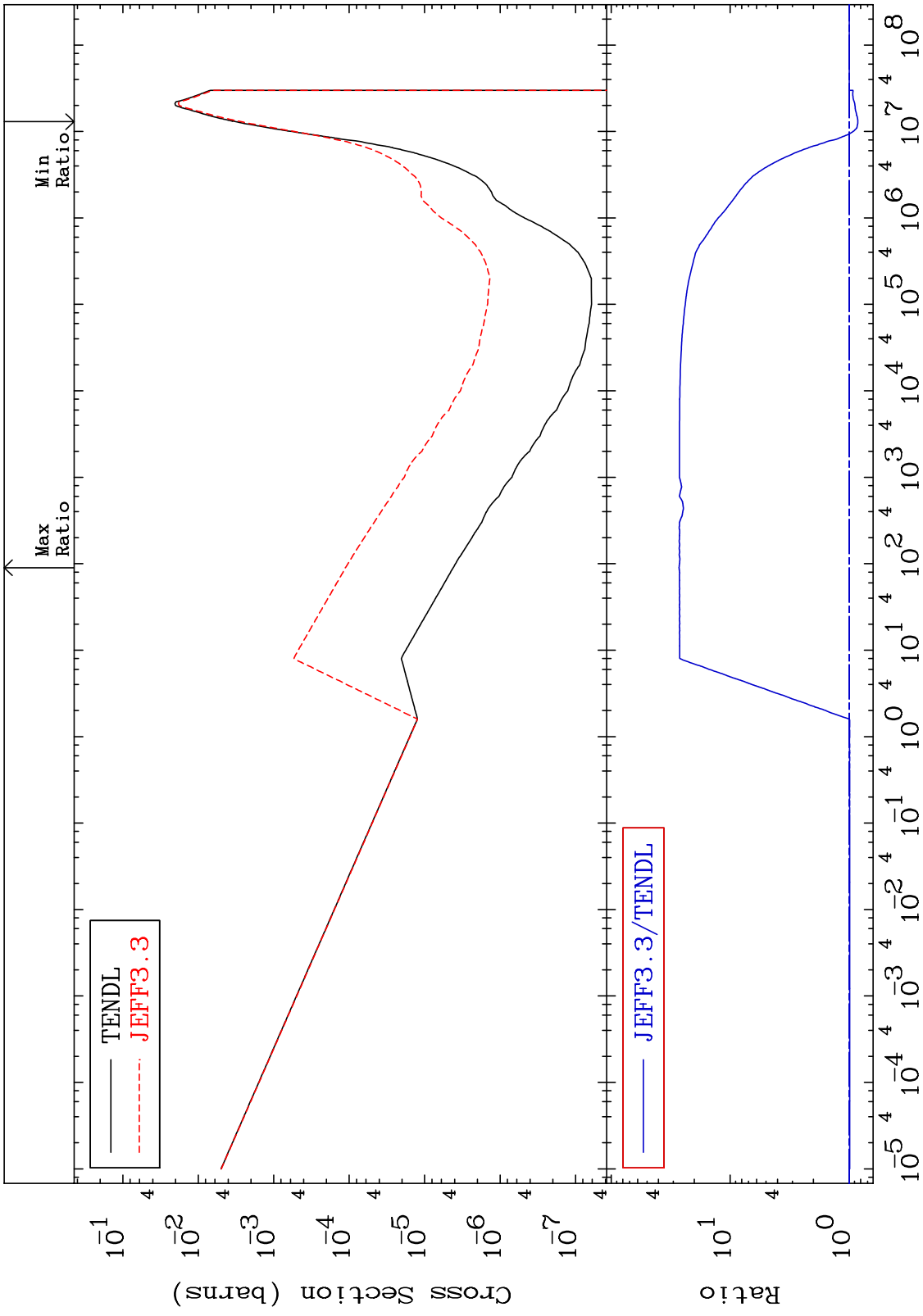


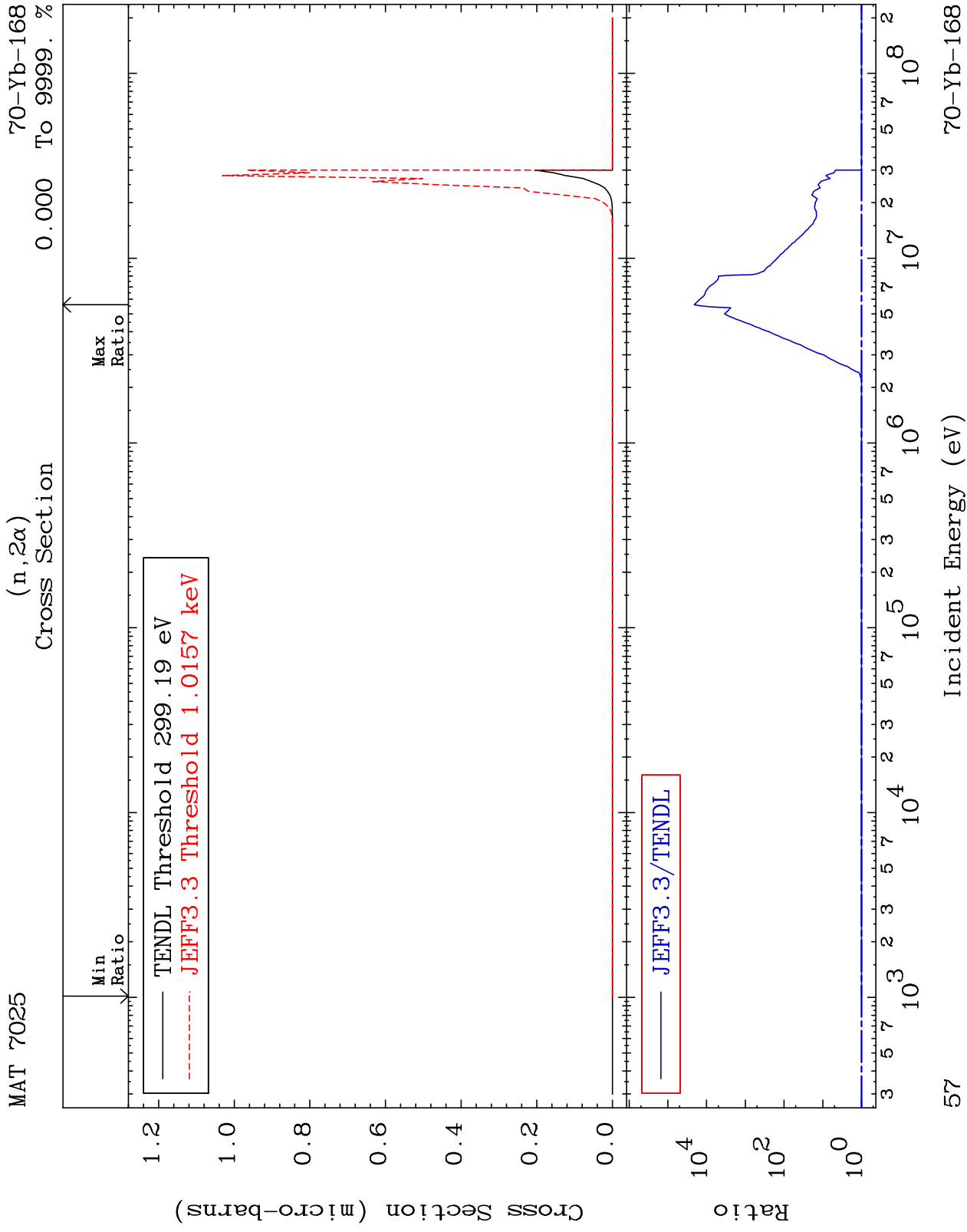
MAT 7025 (n, He-3) Cross Section 70-Yb-168 To 0.493 %



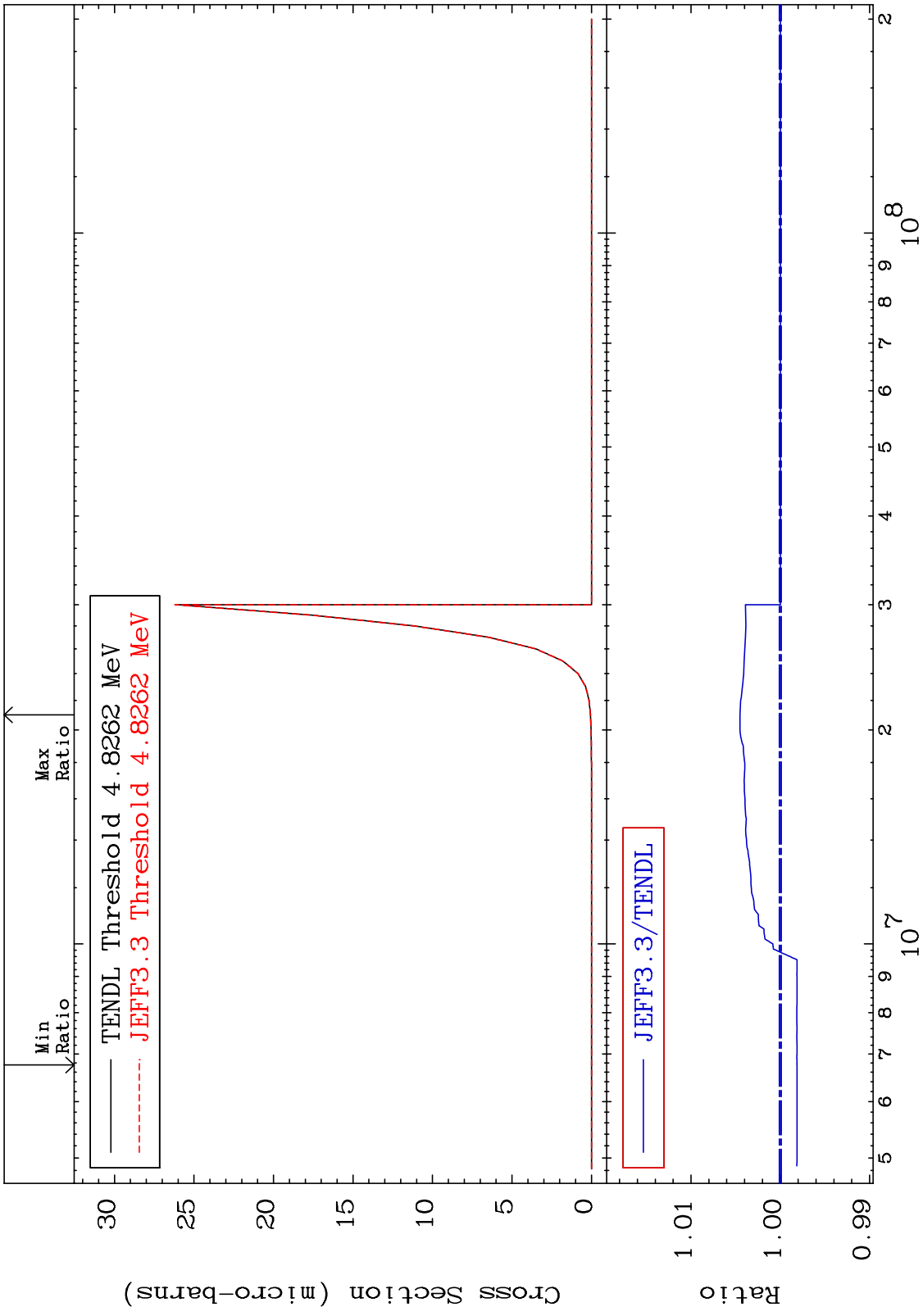


MAT 7025 70-Yb-168  
-15.45 To 2589. %  
 (n,  $\alpha$ )  
 Cross Section





MAT 7025 70-Yb-168  
-0.187 To 0.453 %  
 (n,2p)  
 Cross Section



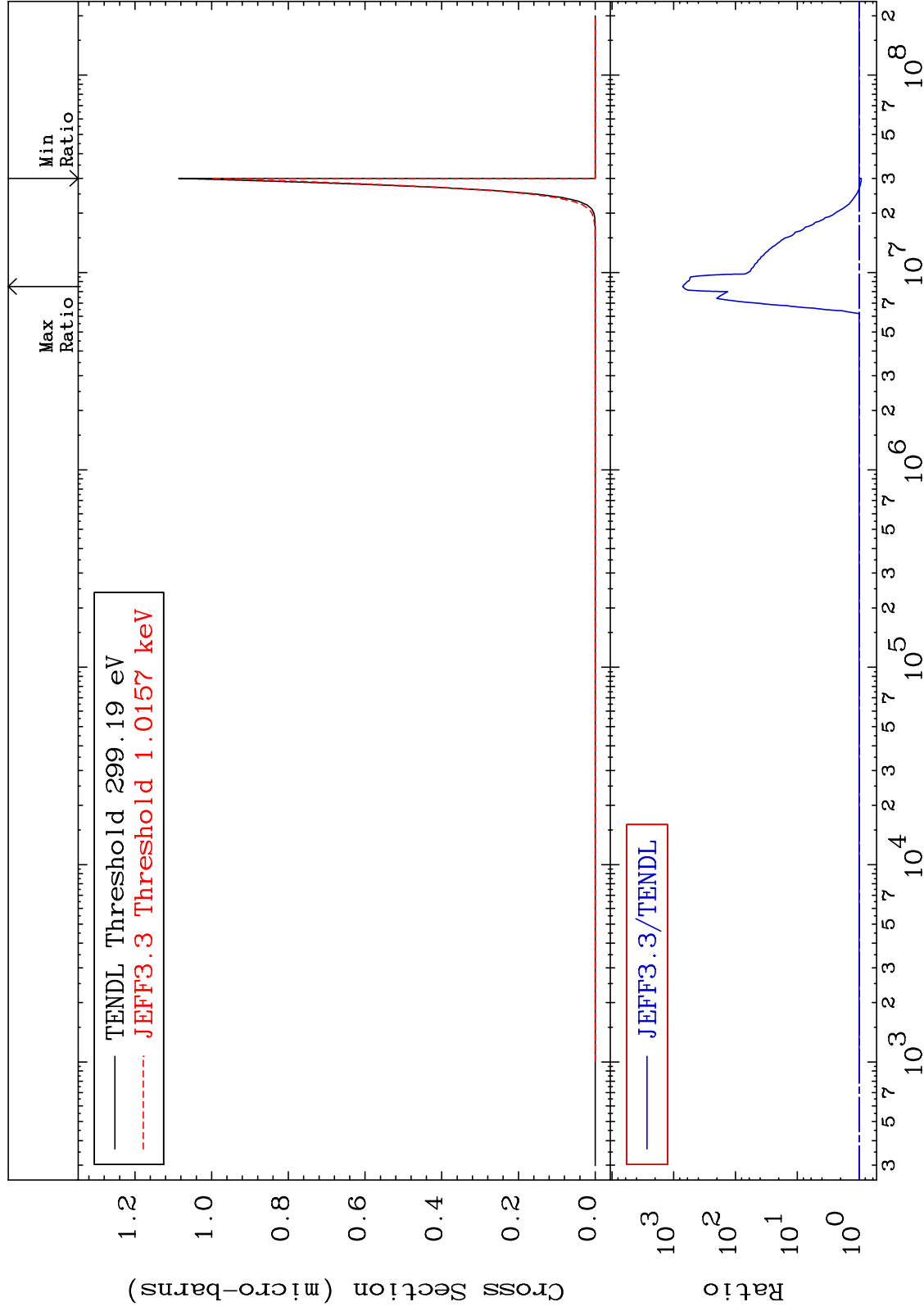
MAT 7025

(n,p)  $\alpha$

70-Yb-168

Cross Section

-7.722 To 9999. %



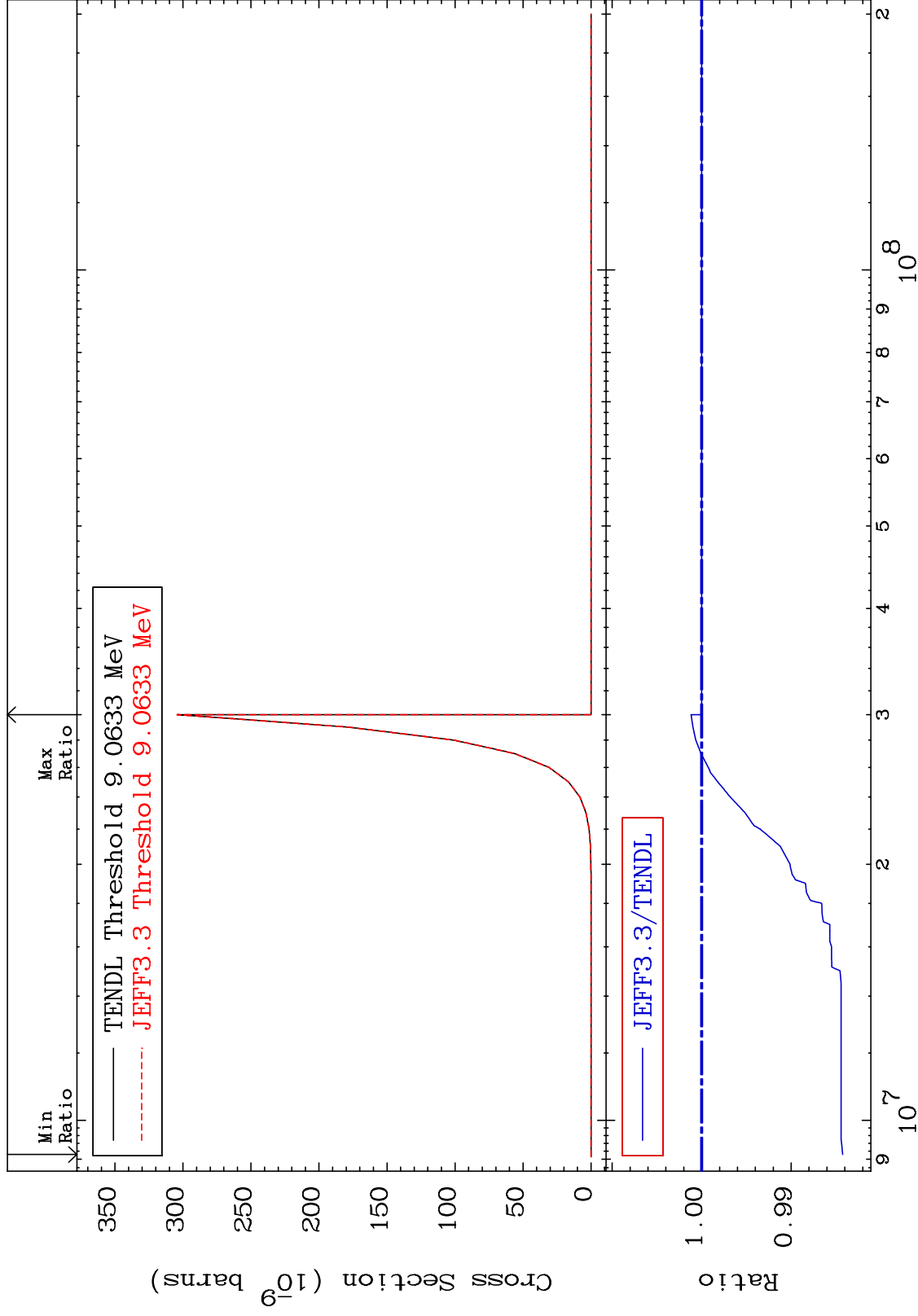
MAT 7025

(n,p) d

70-Yb-168

Cross Section

-1.575 To 0.118 %

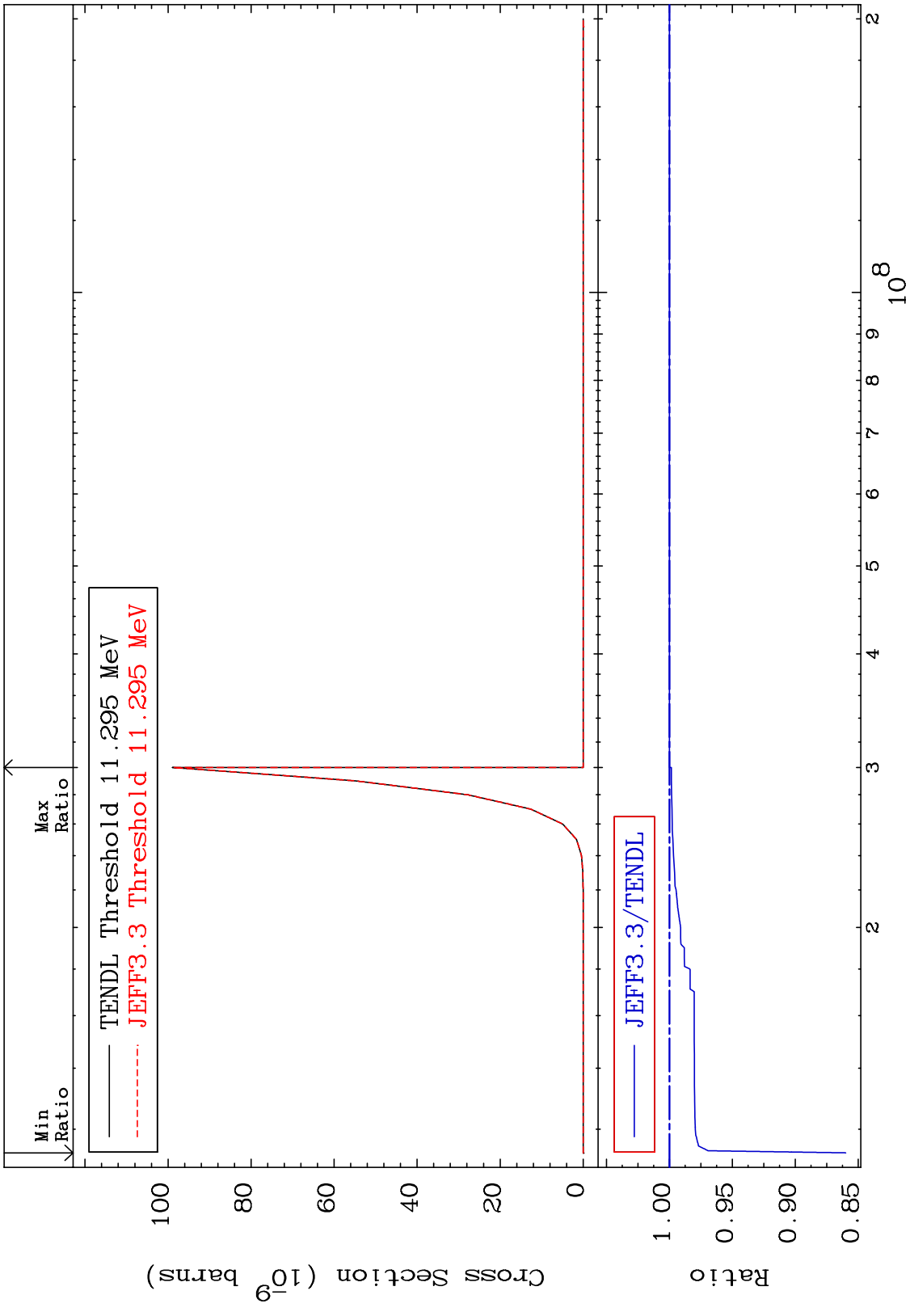


60

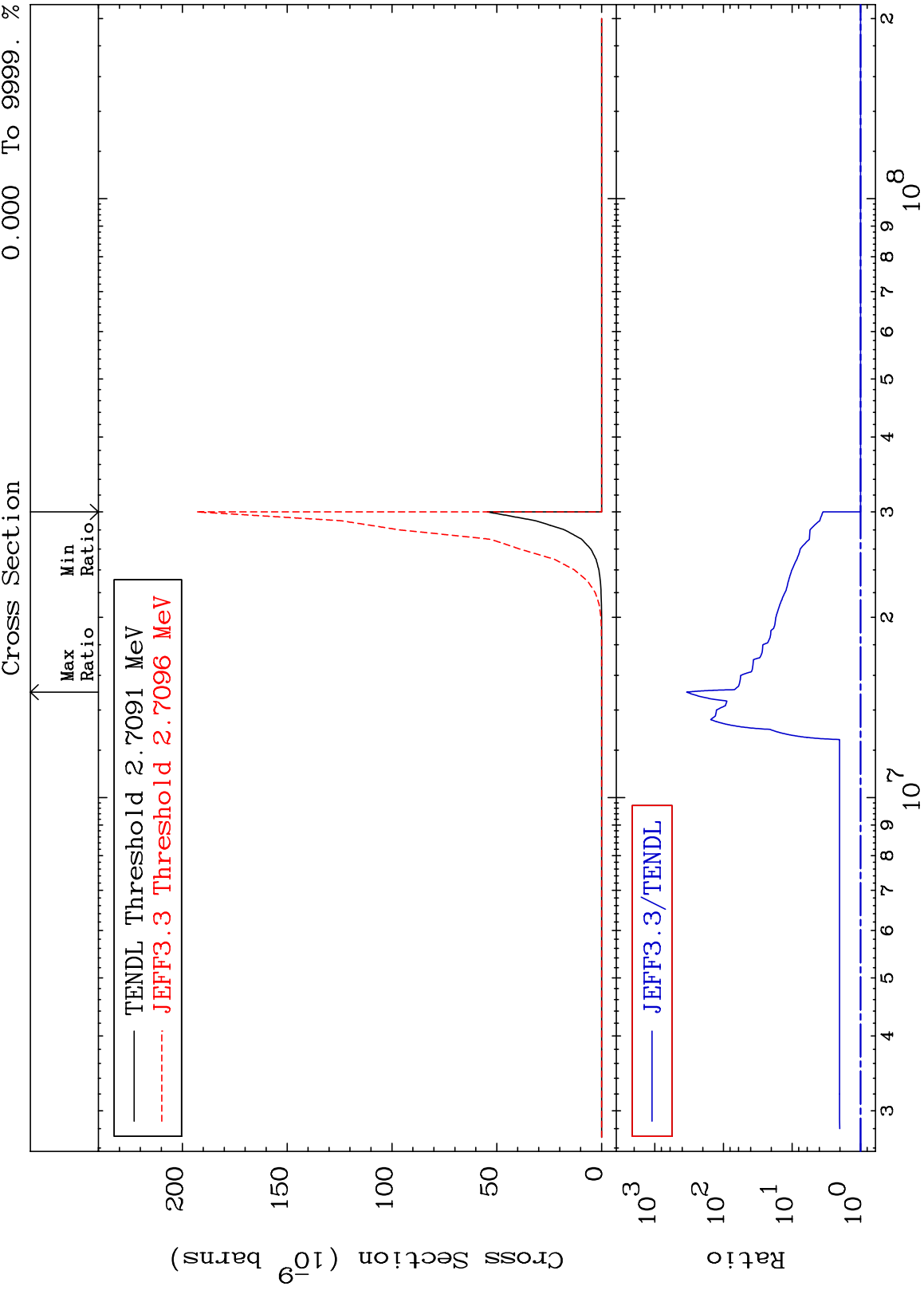
Incident Energy (eV)

70-Yb-168

MAT 7025 (n,p) t 70-Yb-168  
 Cross Section -14.01 To 0.000 %



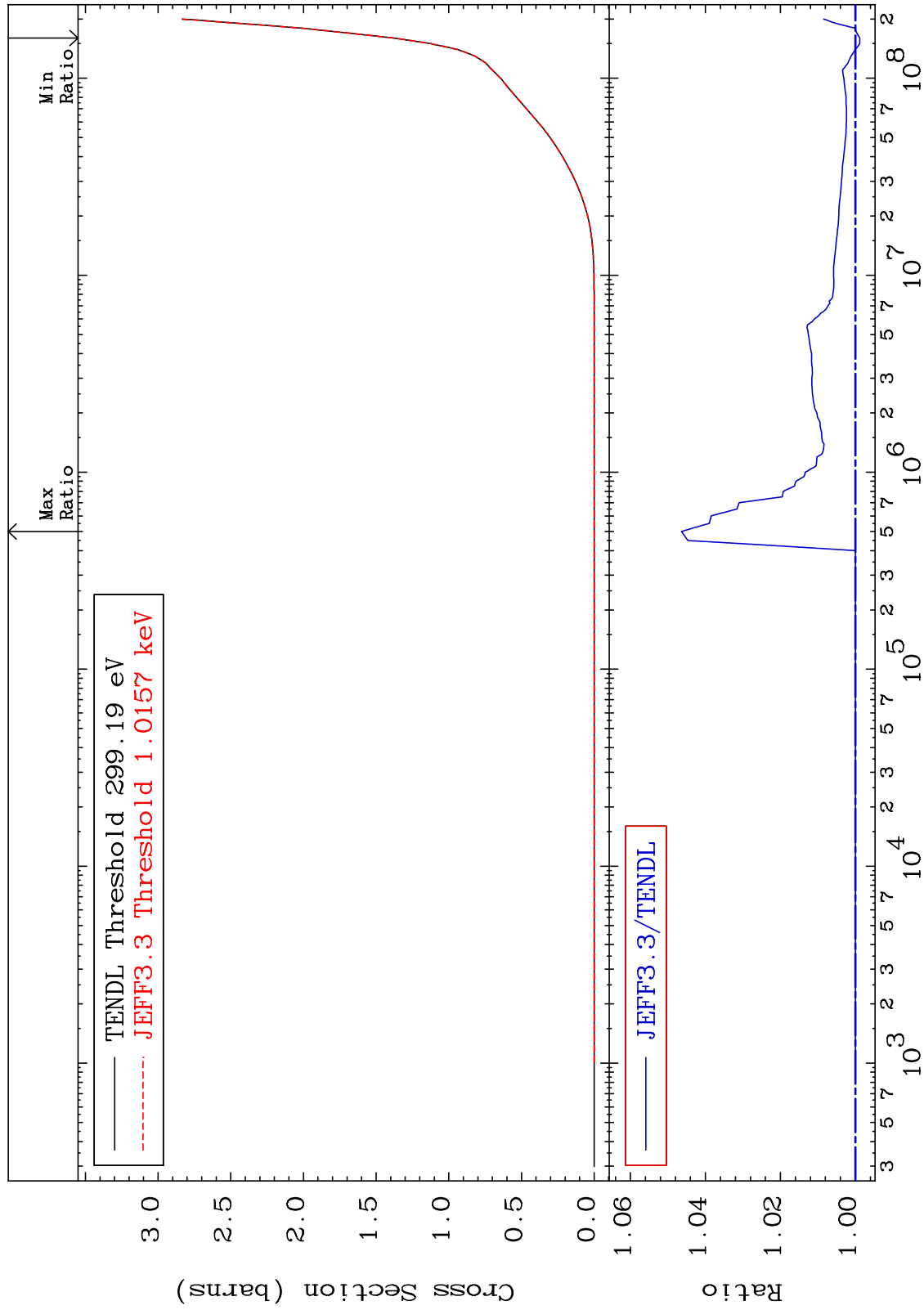
MAT 7025  $(n, d) \alpha$  70-Yb-168 To 9999. %



MAT 7025

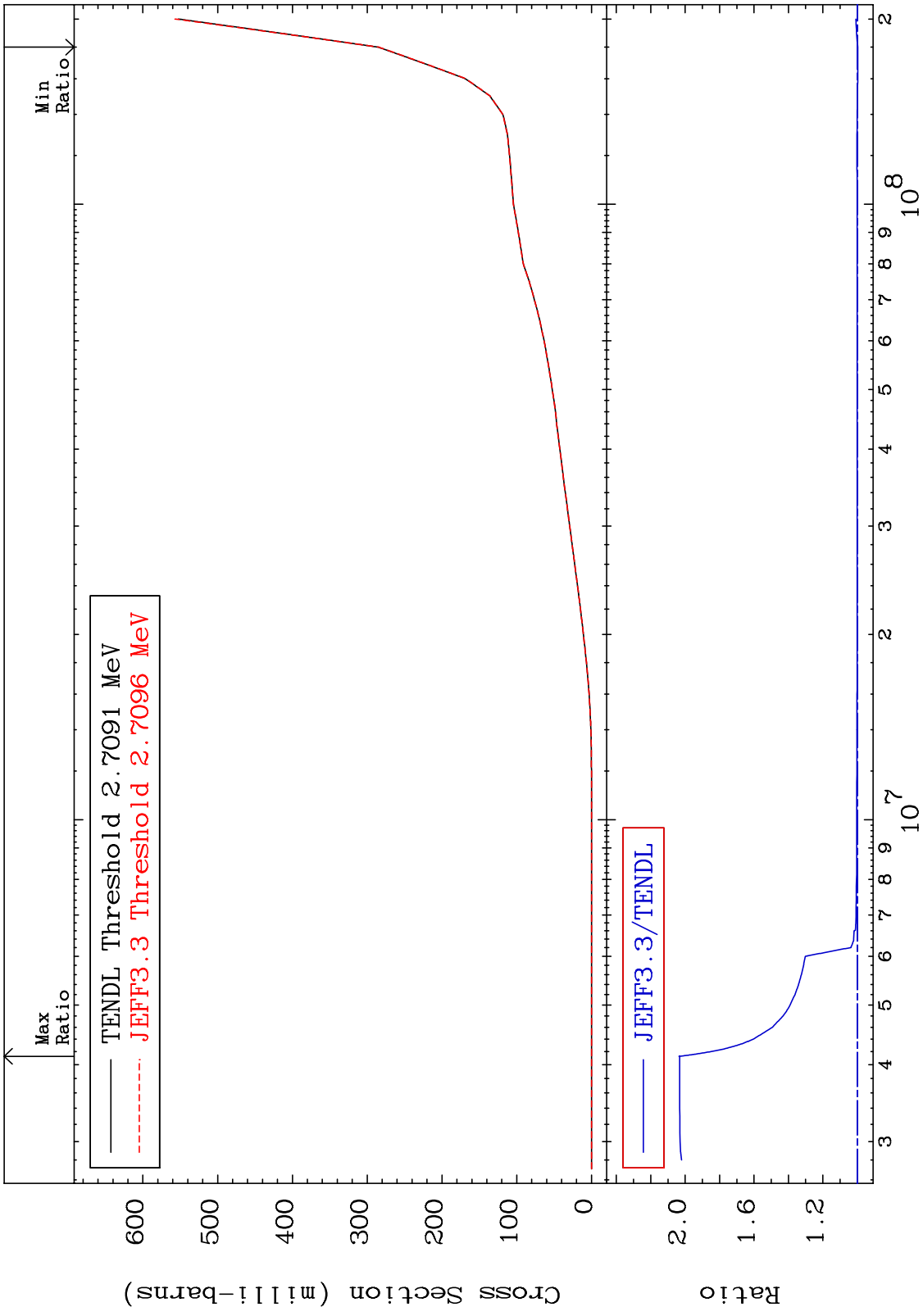
Hydrogen Production  
Cross Section

70-Yb-168  
-0.119 To 4.640 %

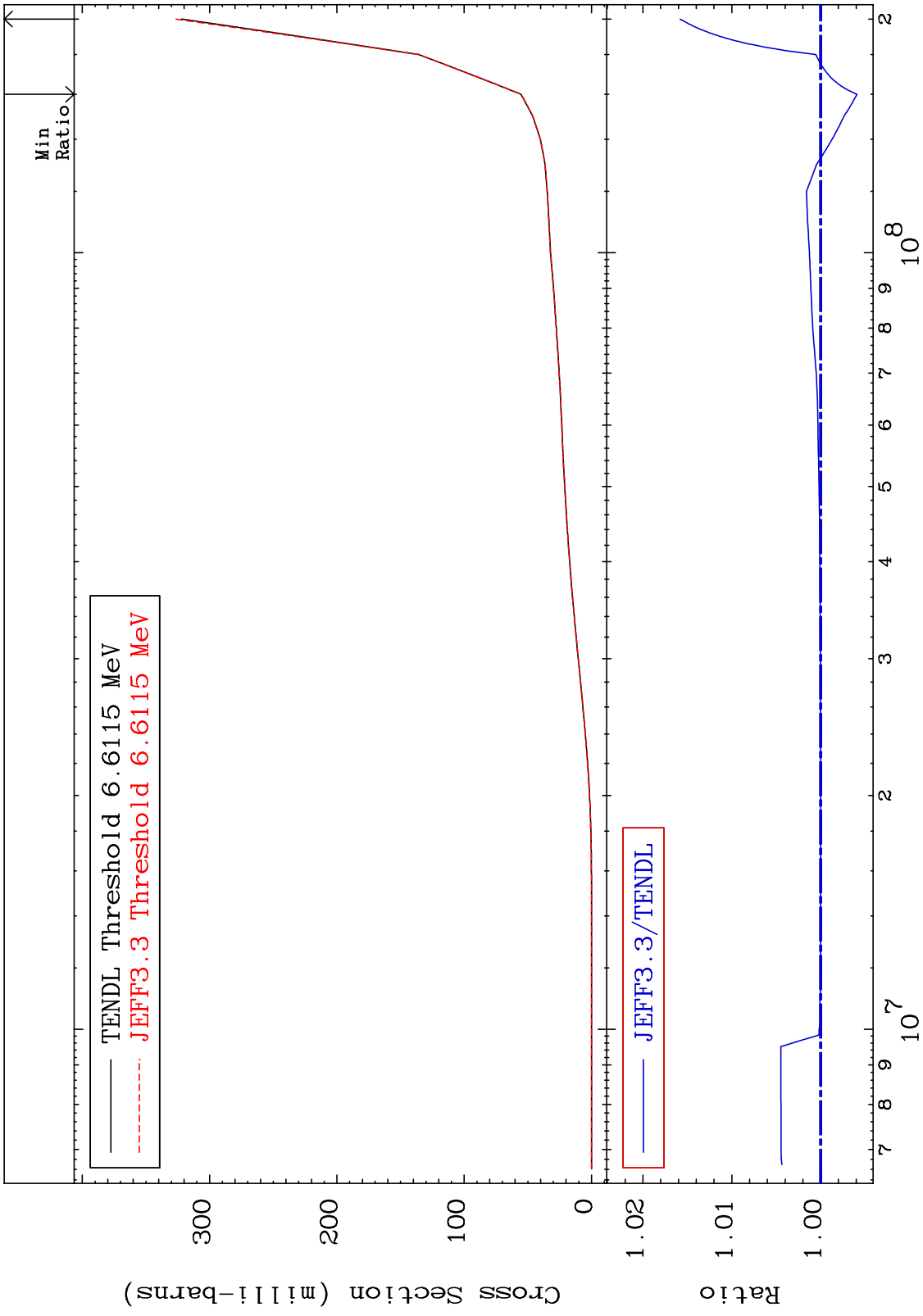




MAT 7025 Deuterium Production Cross Section 70-Yb-168  
 -0.320 To 103.6 %

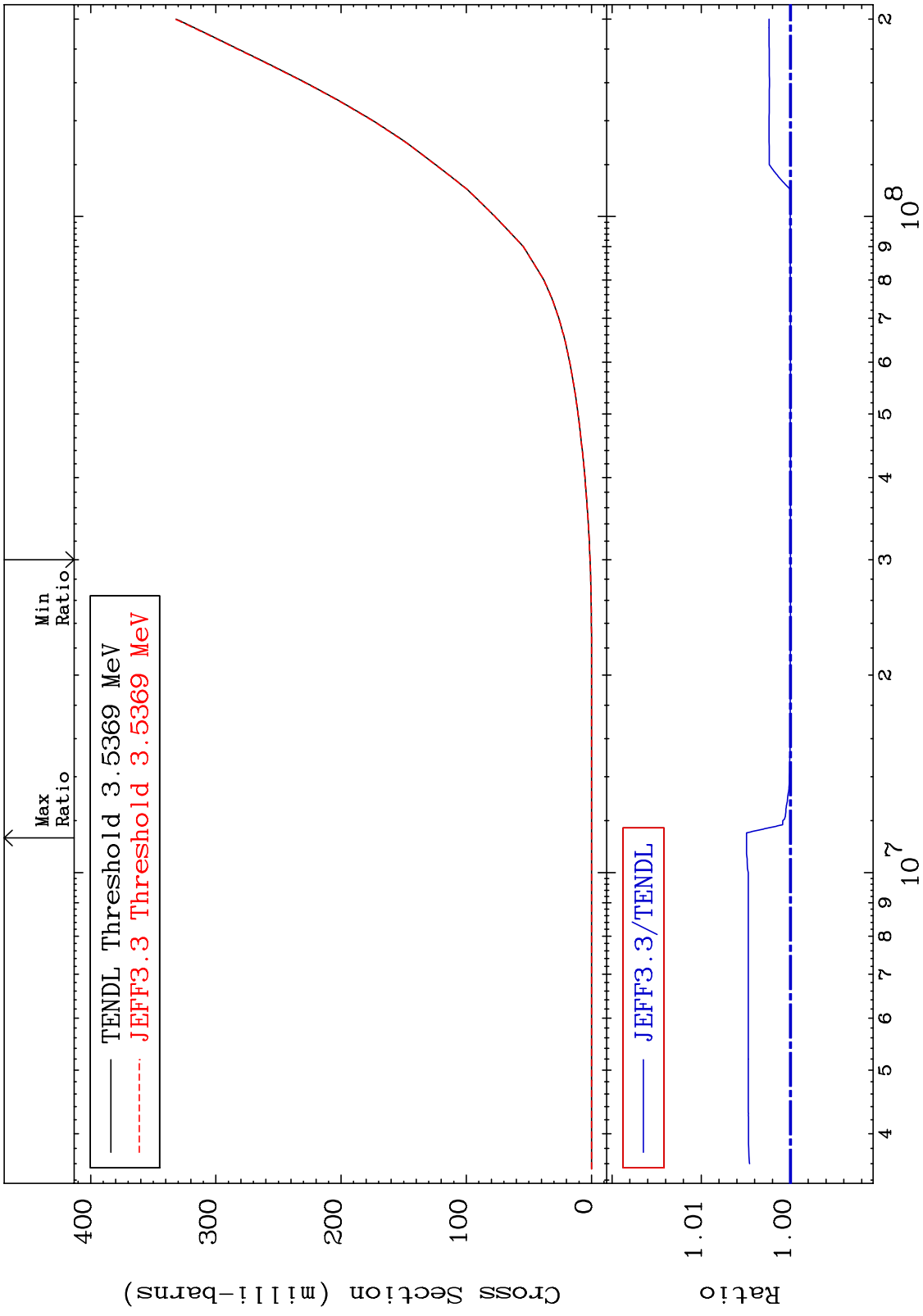


MAT 7025 Tritium Production Cross Section 70-Yb-168  
 -0.407 To 1.582 %



65 70-Yb-168

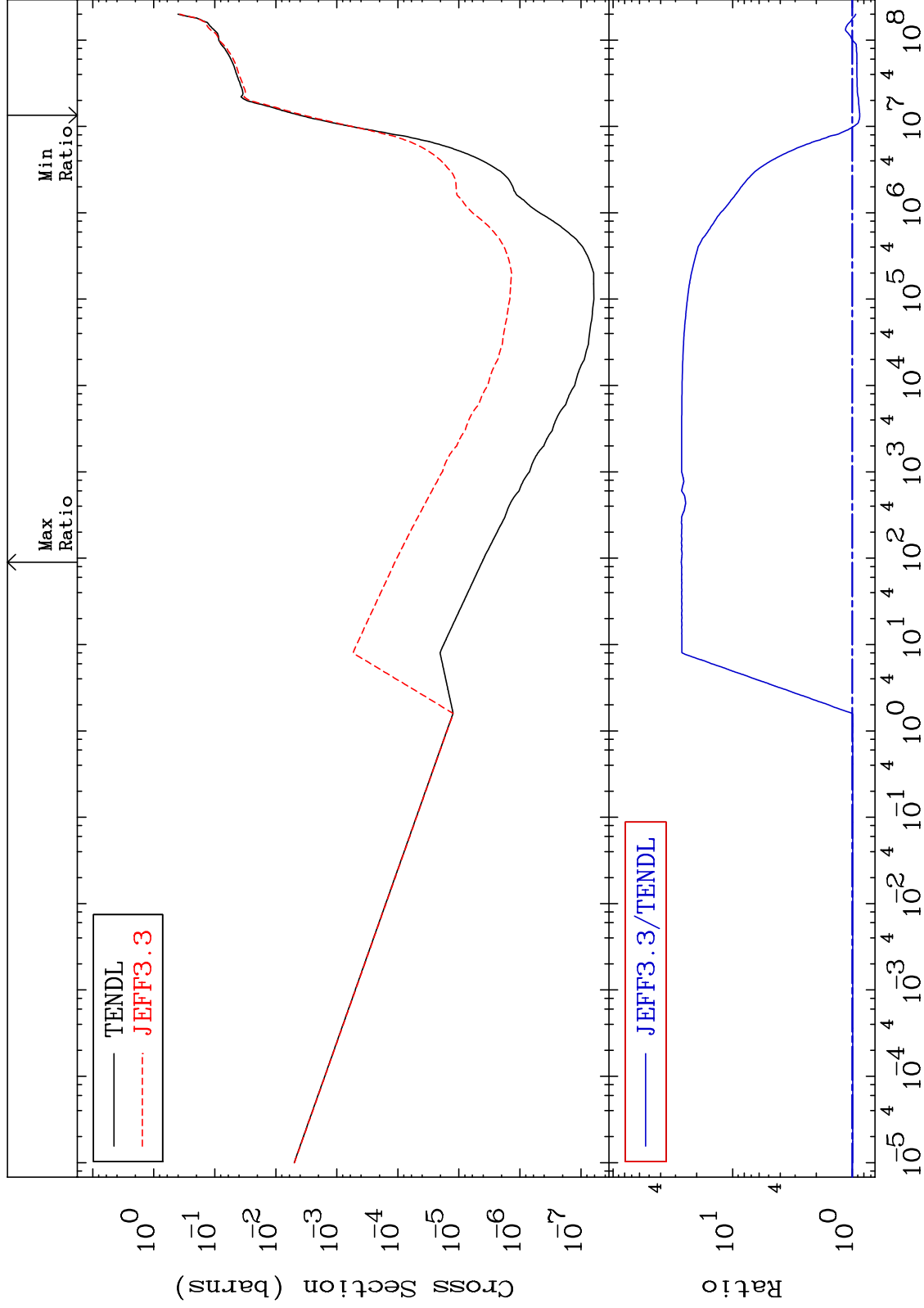
MAT 7025 He-3 Production Cross Section 70-Yb-168 To 0.493 %



MAT 7025

He-4 Production  
Cross Section

70-Yb-168  
-13.47 To 2589. %

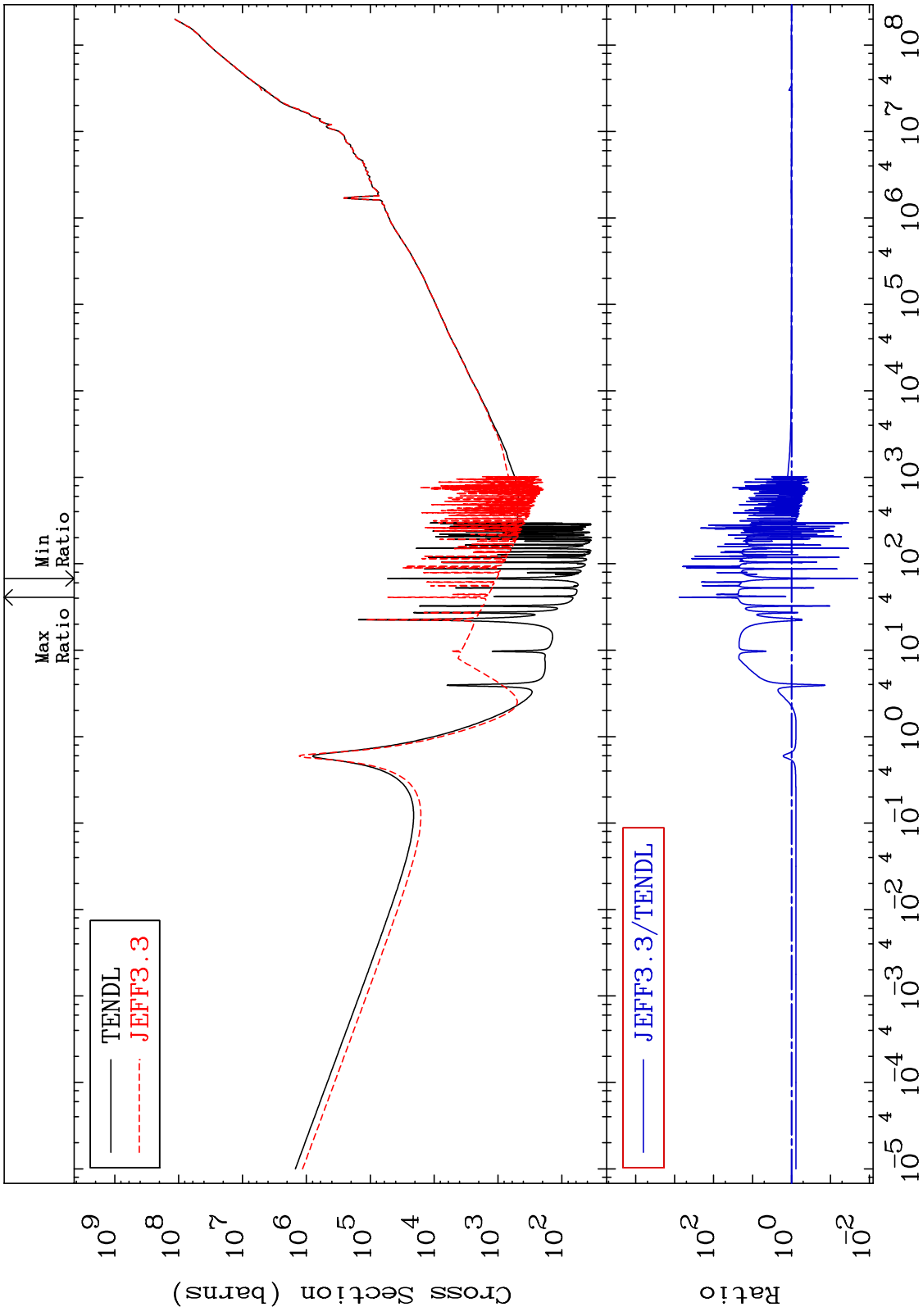


67

Incident Energy (eV)

70-Yb-168

MAT 7025 Kerma total (eV-barns) 70-Yb-168  
 Cross Section -98.03 To 9999. %

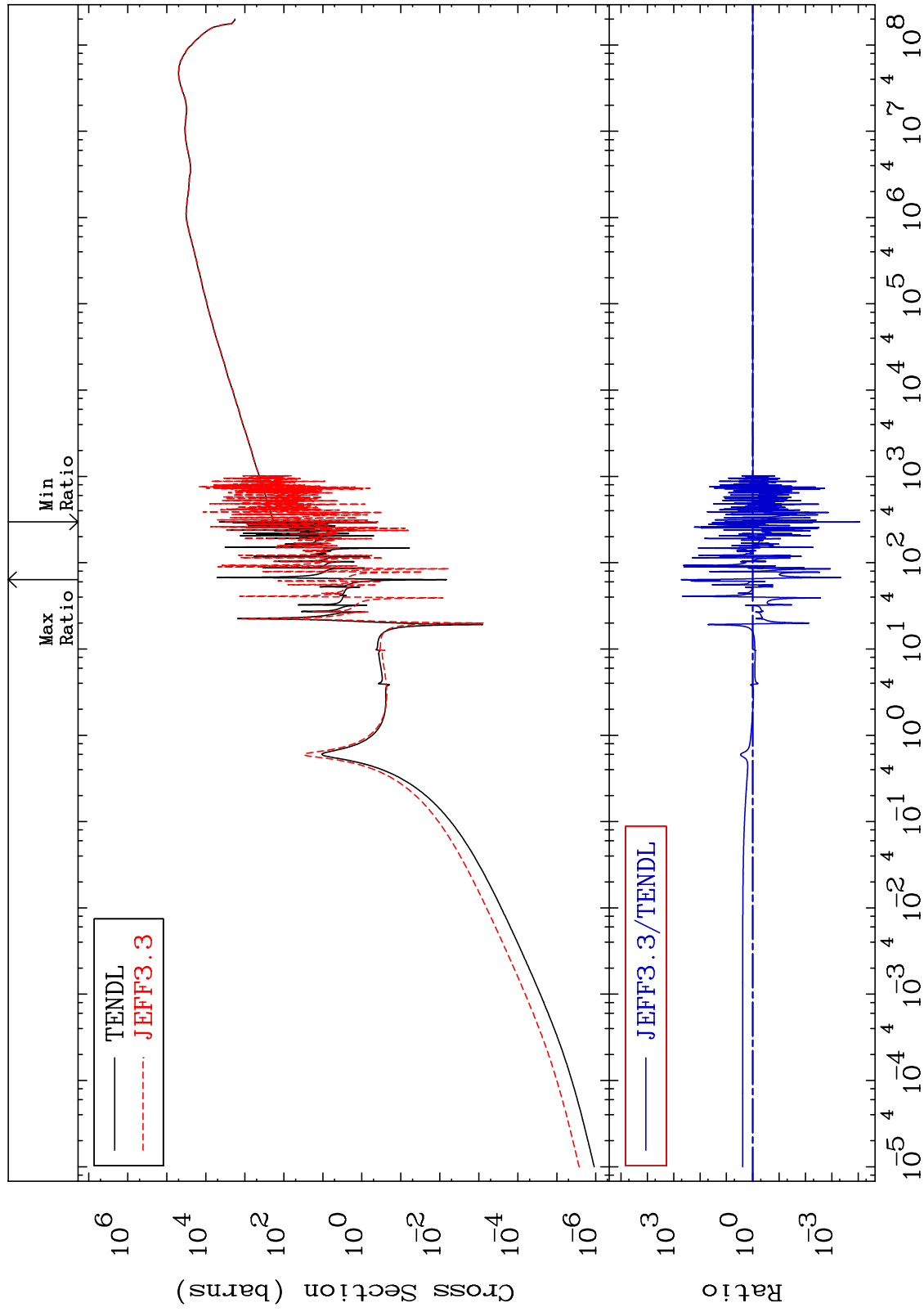


68 Incident Energy (eV) 70-Yb-168

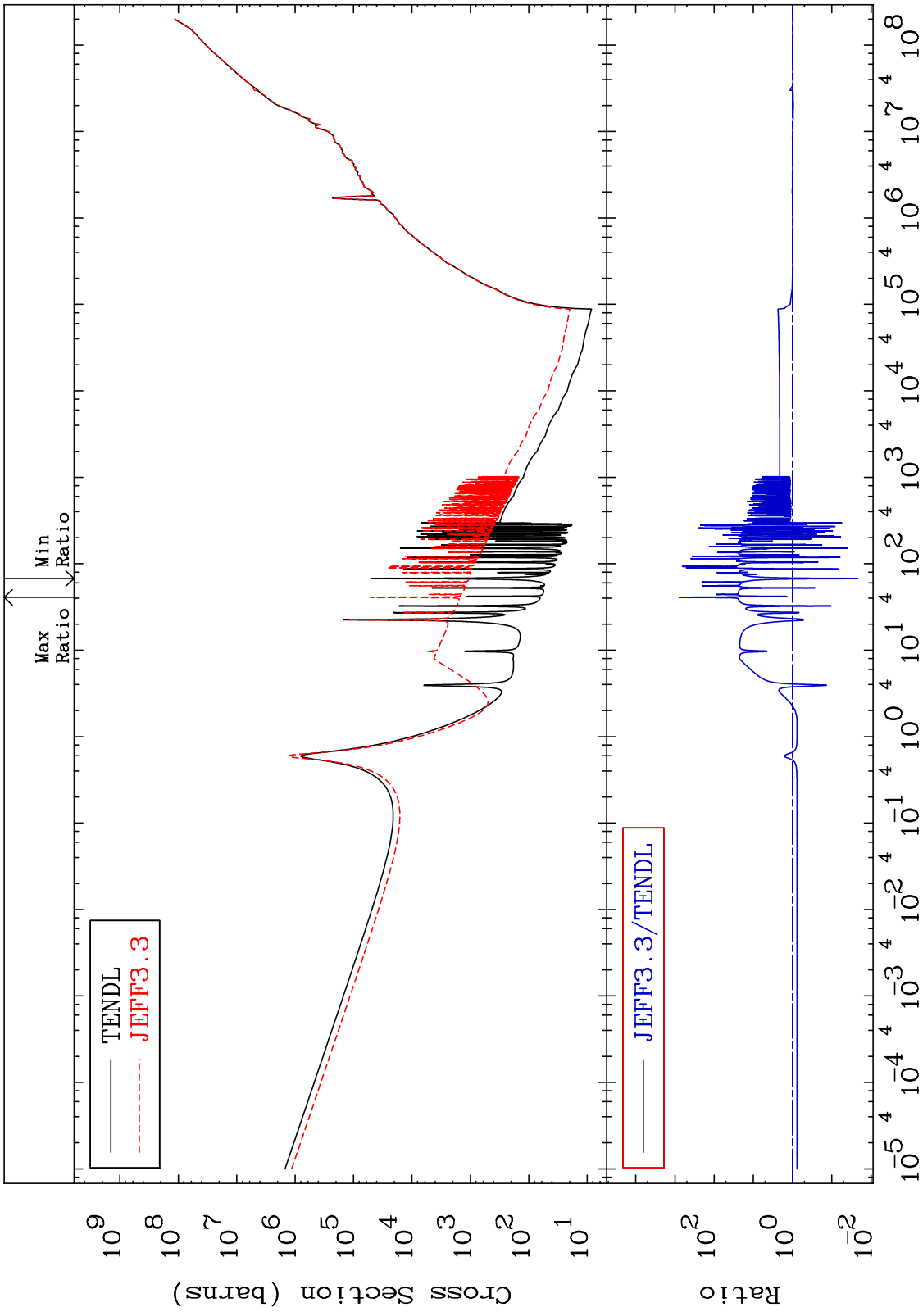
MAT 7025

Kerma elastic  
Cross Section

70-Yb-168  
-99.99 To 9999. %

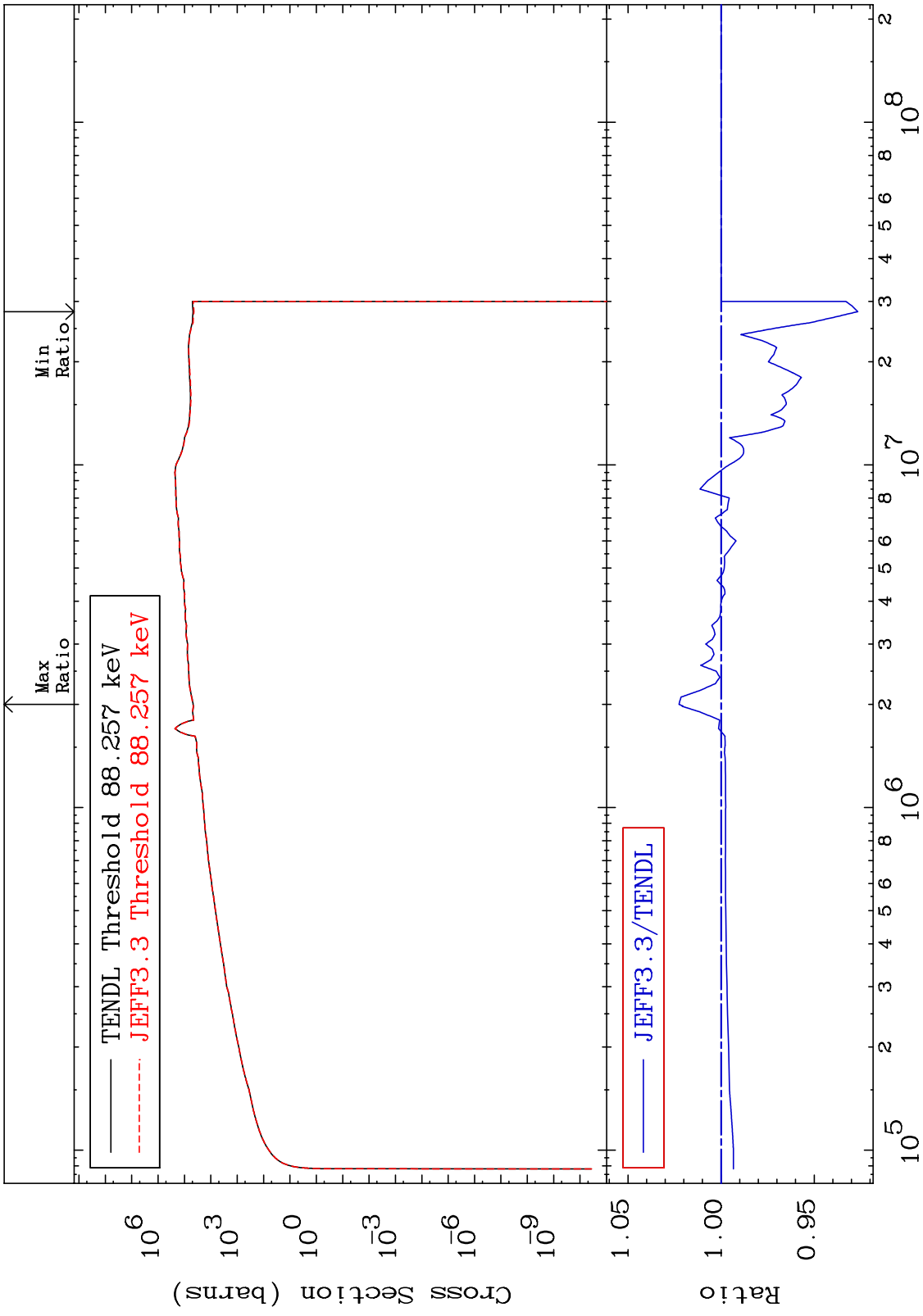


MAT 7025 Kerma non-elastic (all but mt2) 70-Yb-168  
Cross Section -97.83 To 9999. %



70  
Incident Energy (eV) 70-Yb-168

MAT 7025 Kerma inelastic (mt51-91) 70-Yb-168  
 Cross Section -7.343 To 2.257 %



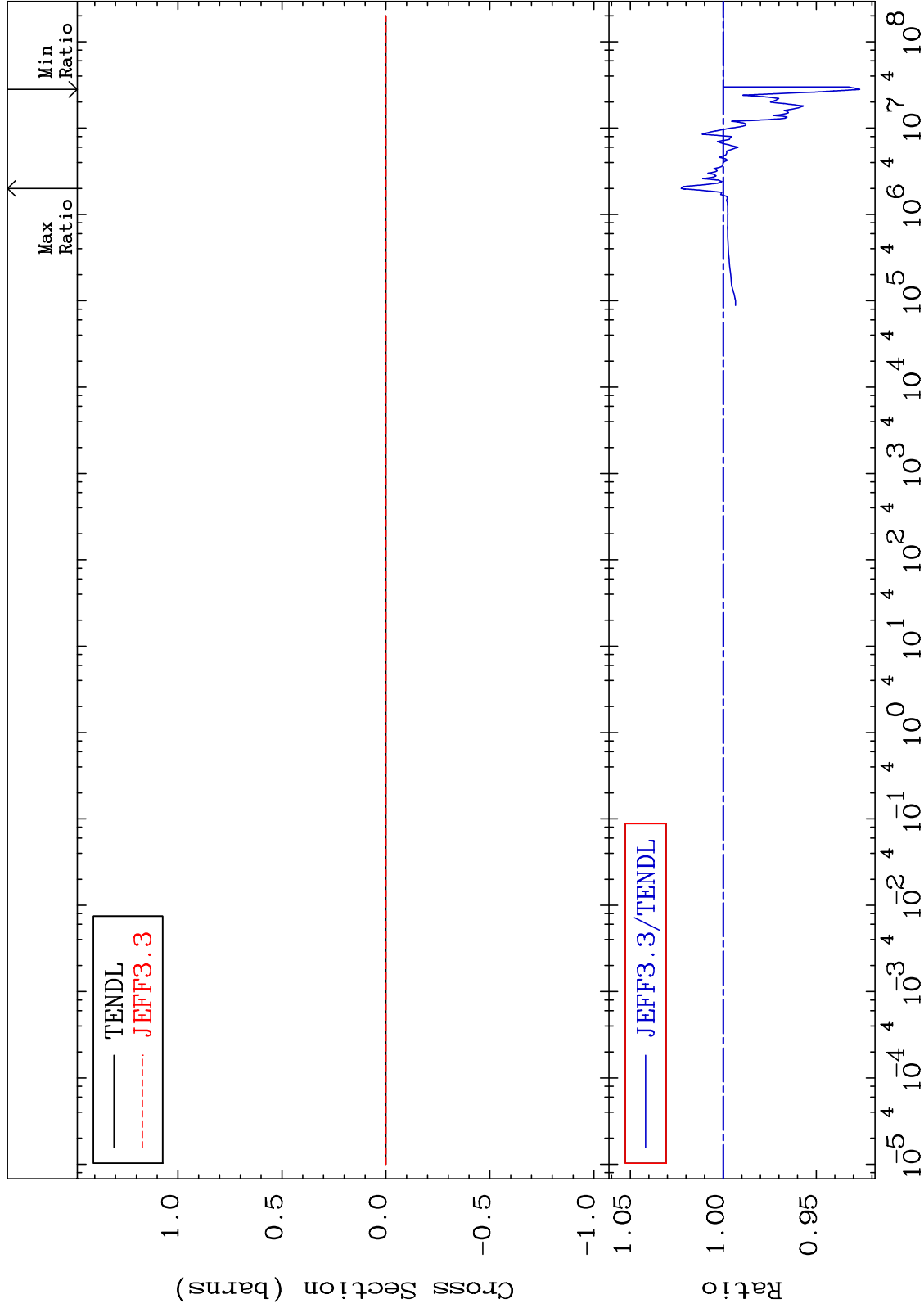
71 Incident Energy (eV) 70-Yb-168



MAT 7025

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

70-Yb-168  
-7.343 To 2.257 %

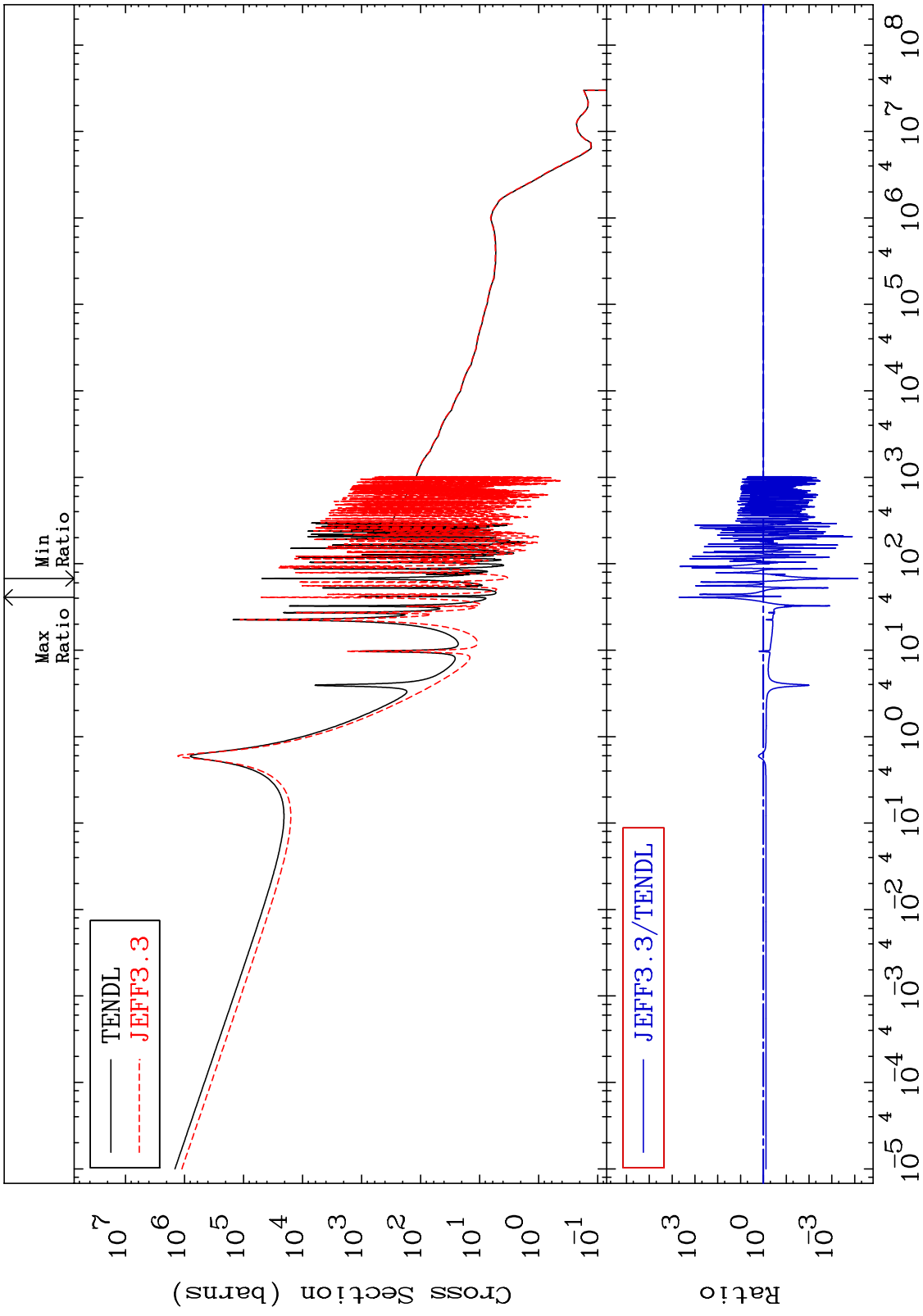


72

Incident Energy (eV)

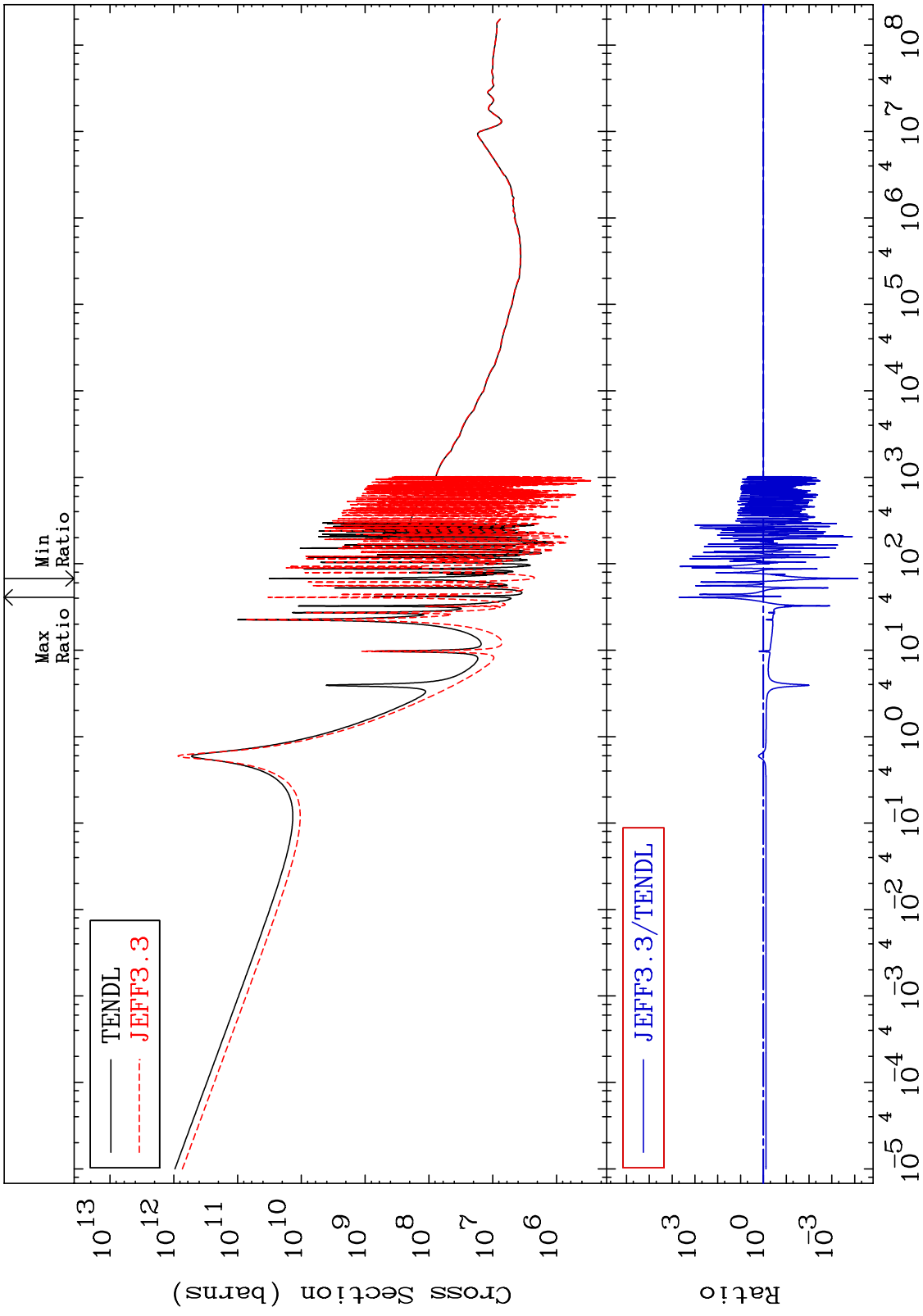
70-Yb-168

MAT 7025 Kerma capture (mt102) 70-Yb-168  
Cross Section -99.99 To 9999. %



73 70-Yb-168

MAT 7025 70-Yb-168  
-99.99 To 9999. %  
 Total photon (eV-barns)  
 Cross Section

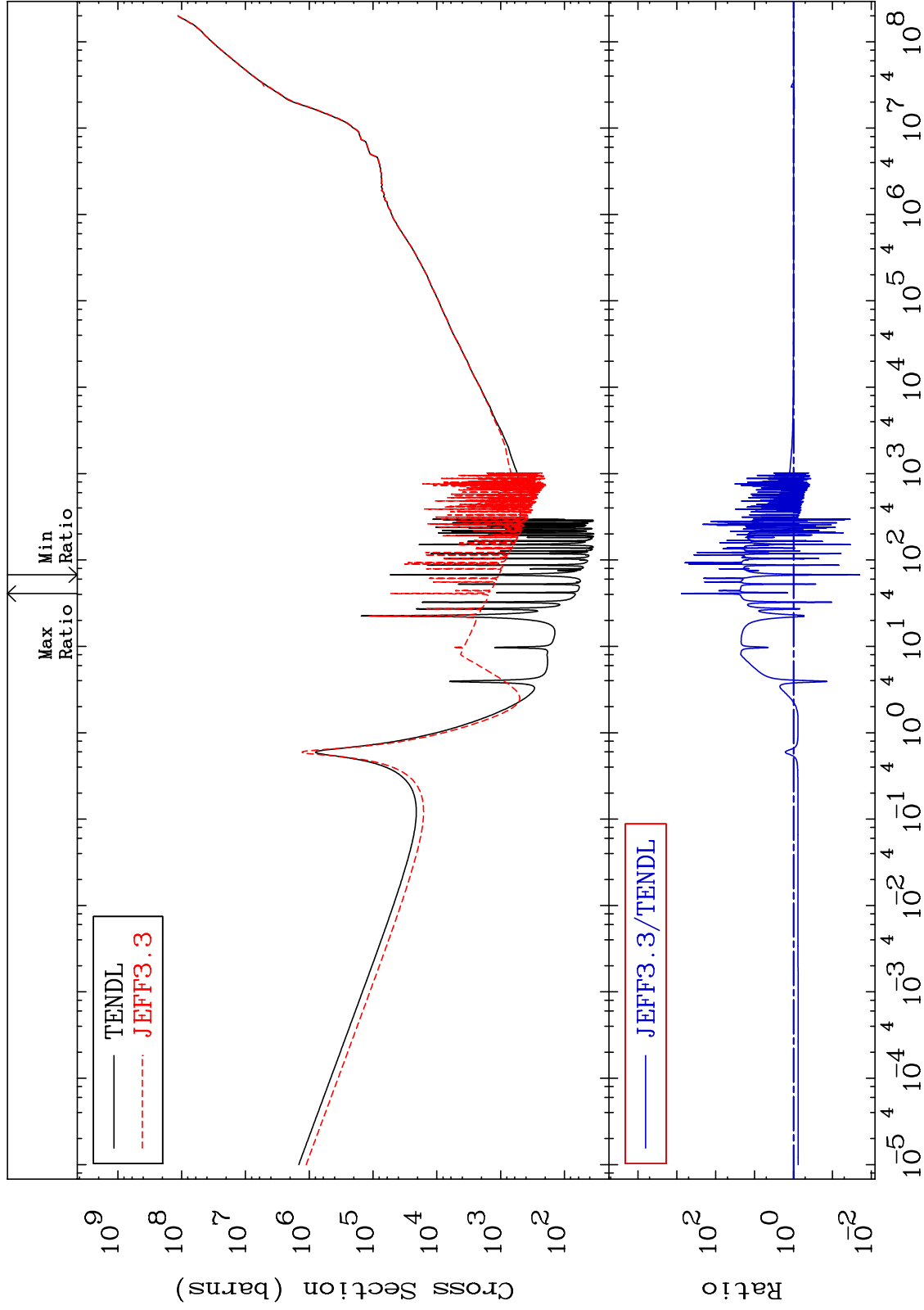


74 70-Yb-168

MAT 7025

Total kinematic kerma (high limit)  
Cross Section

70-Yb-168  
-98.01 To 9999. %

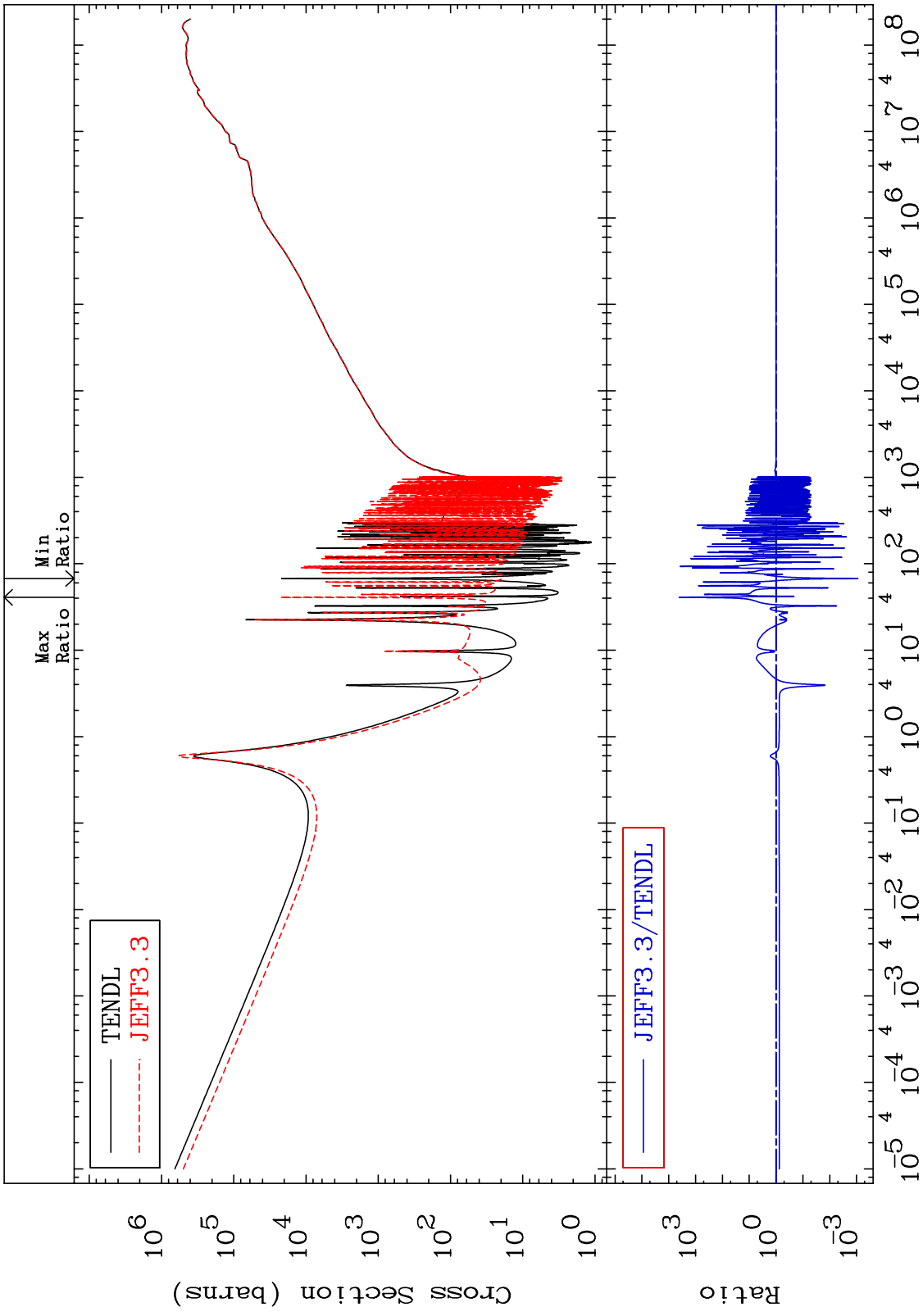


75

Incident Energy (eV)

70-Yb-168

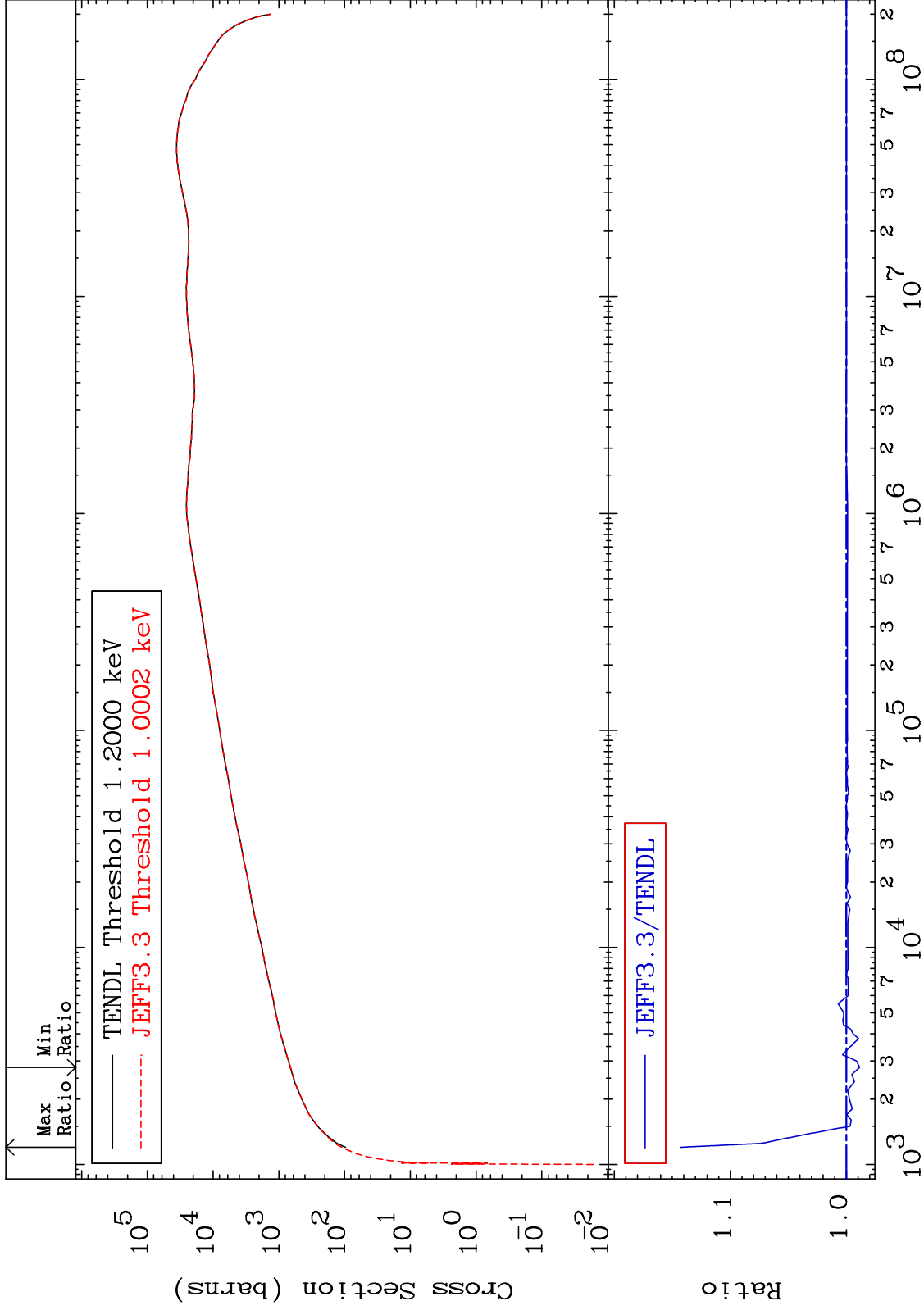
MAT 7025      Dpa total (eV-barns)      70-Yb-168  
 Cross Section      -99.91 To 9999. %



MAT 7025

Dpa elastic (mt2)  
Cross Section

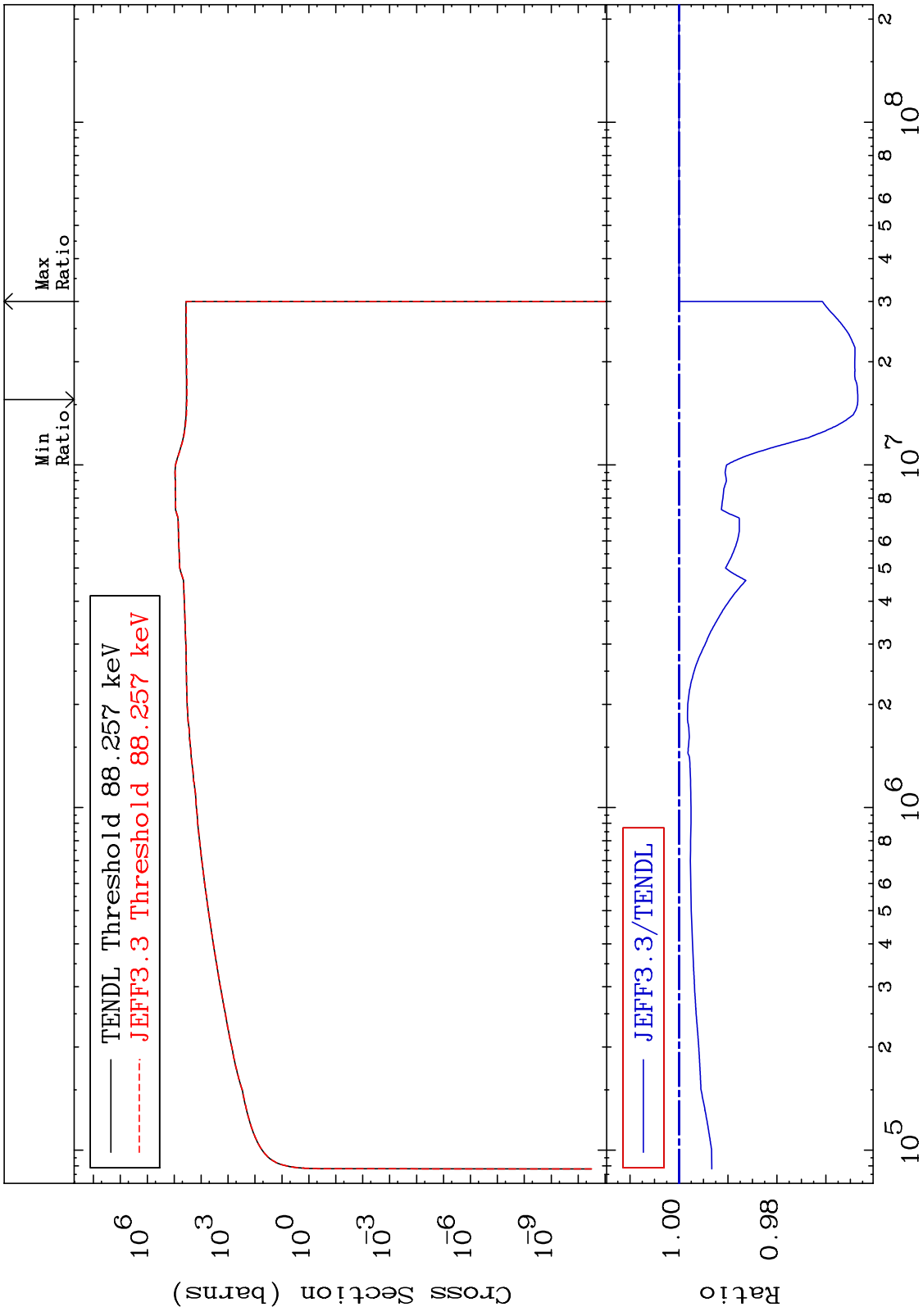
70-Yb-168  
-1.143 To 14.26 %



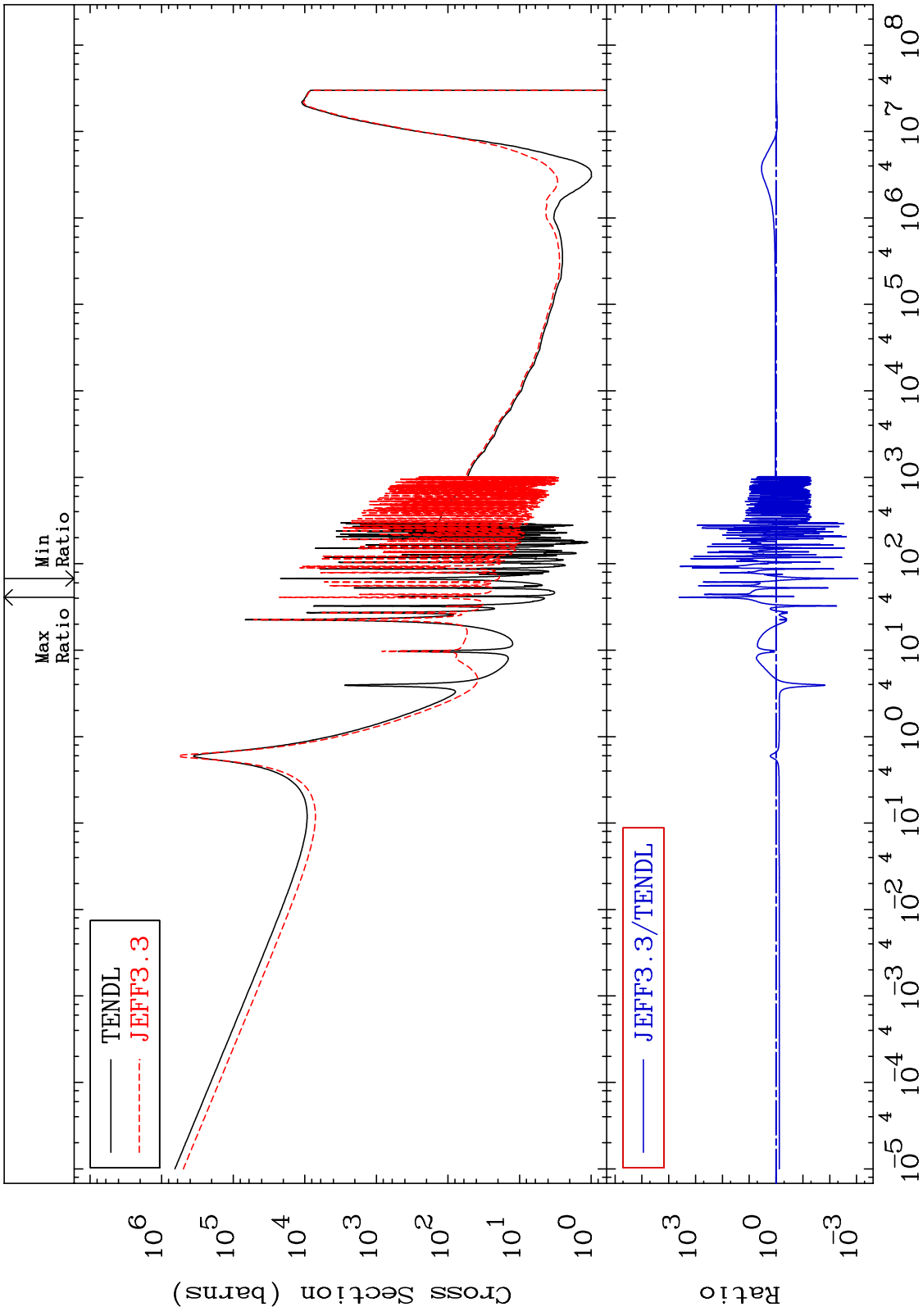
77

Incident Energy (eV)

70-Yb-168

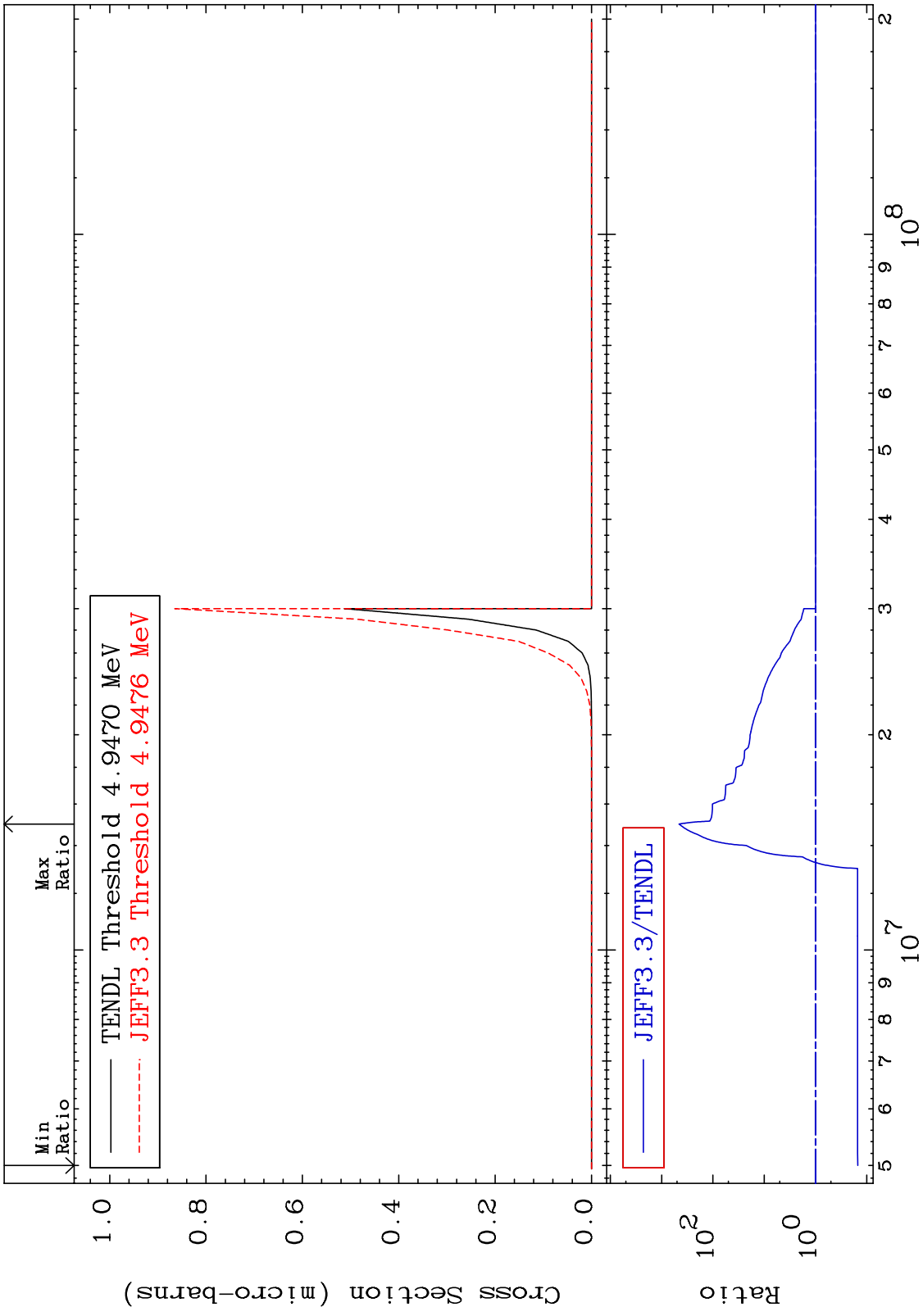


MAT 7025      Dpa disappearance (mt102 -120)      70-Yb-168  
 Cross Section      -99.91 To 9999. %

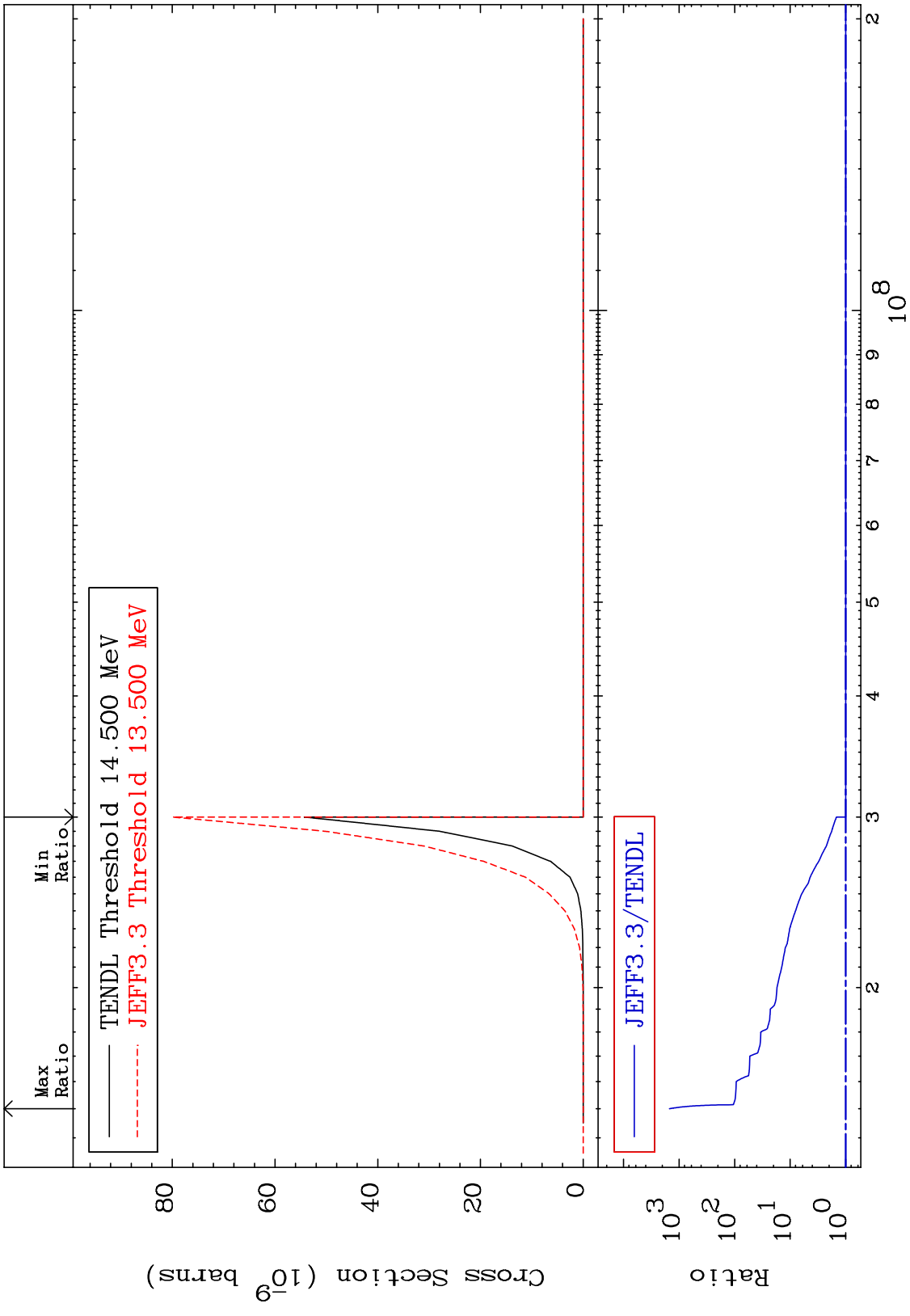




MAT 7025 (n,n') p α:67-Ho-163g 70-Yb-168  
 Radionuclide Production Cross Section -85.06 To 9999. %



MAT 7025 (n,n') p α:67-Ho-163m3 70-Yb-168  
 Radionuclide Production Cross Section 0.000 To 9999. %

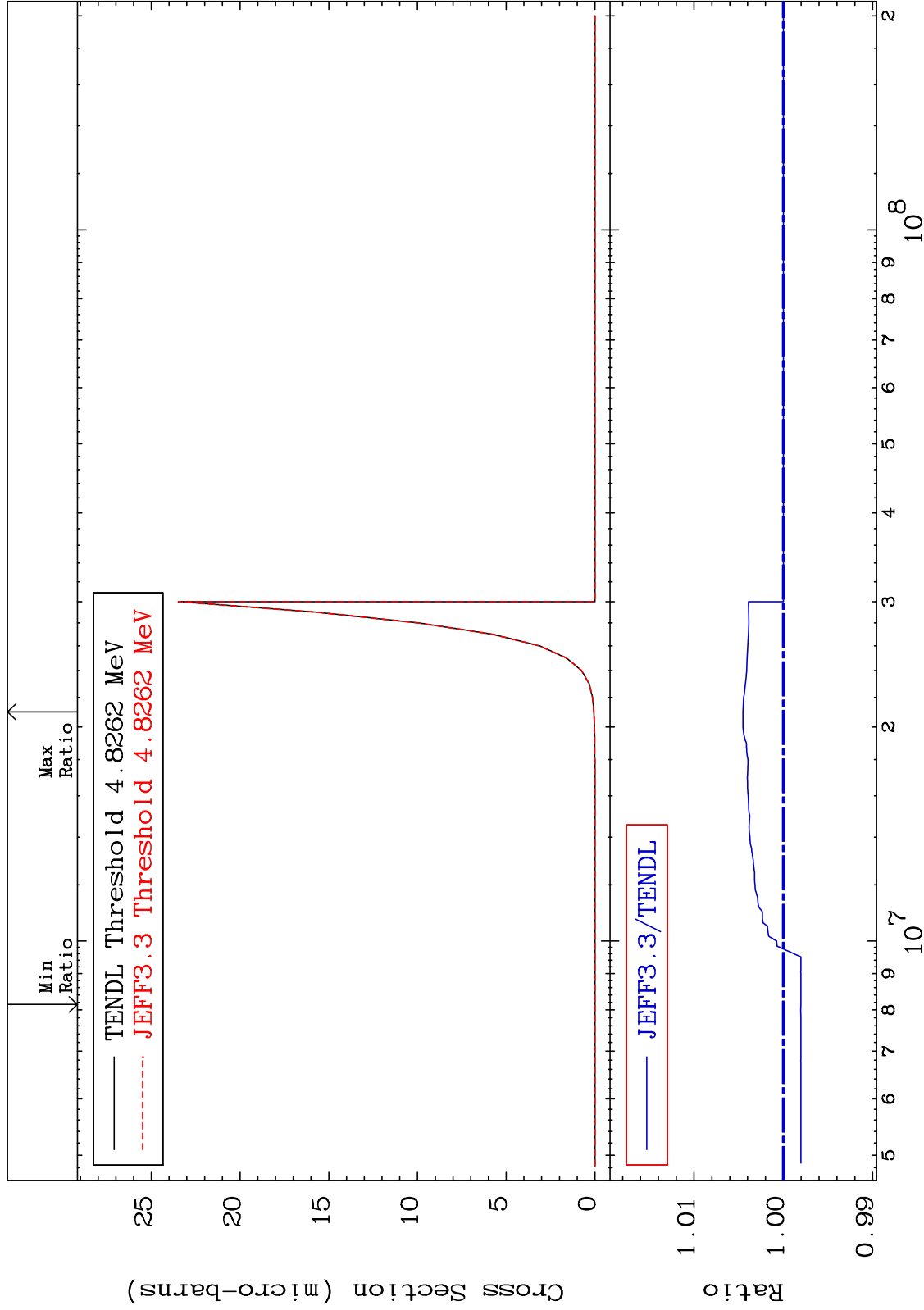


MAT 7025

(n,2p):68-Er-167g

70-Yb-168

Radionuclide Production Cross Section -0.196 To 0.453 %

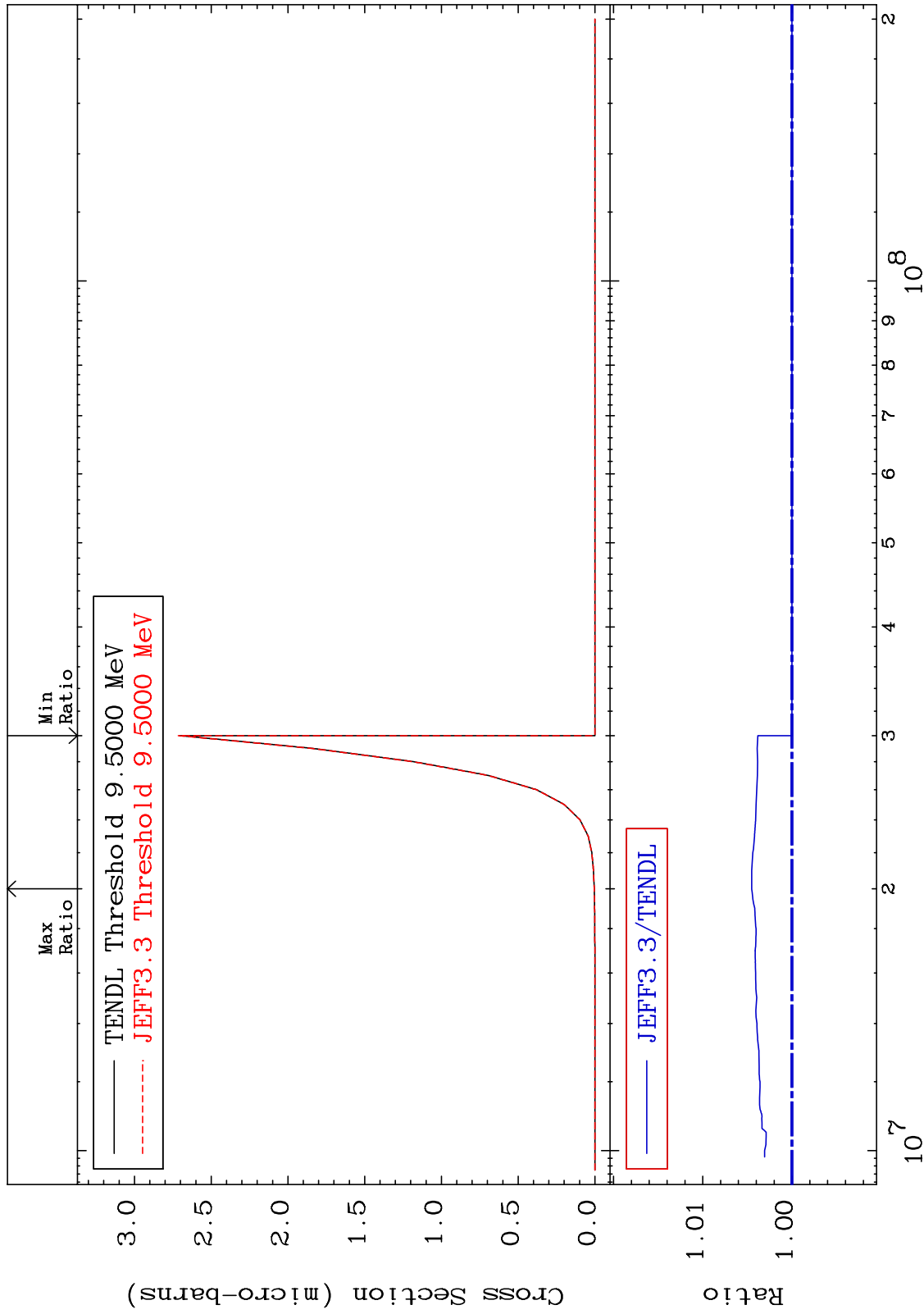


MAT 7025

(n,2p):68-Er-167m3

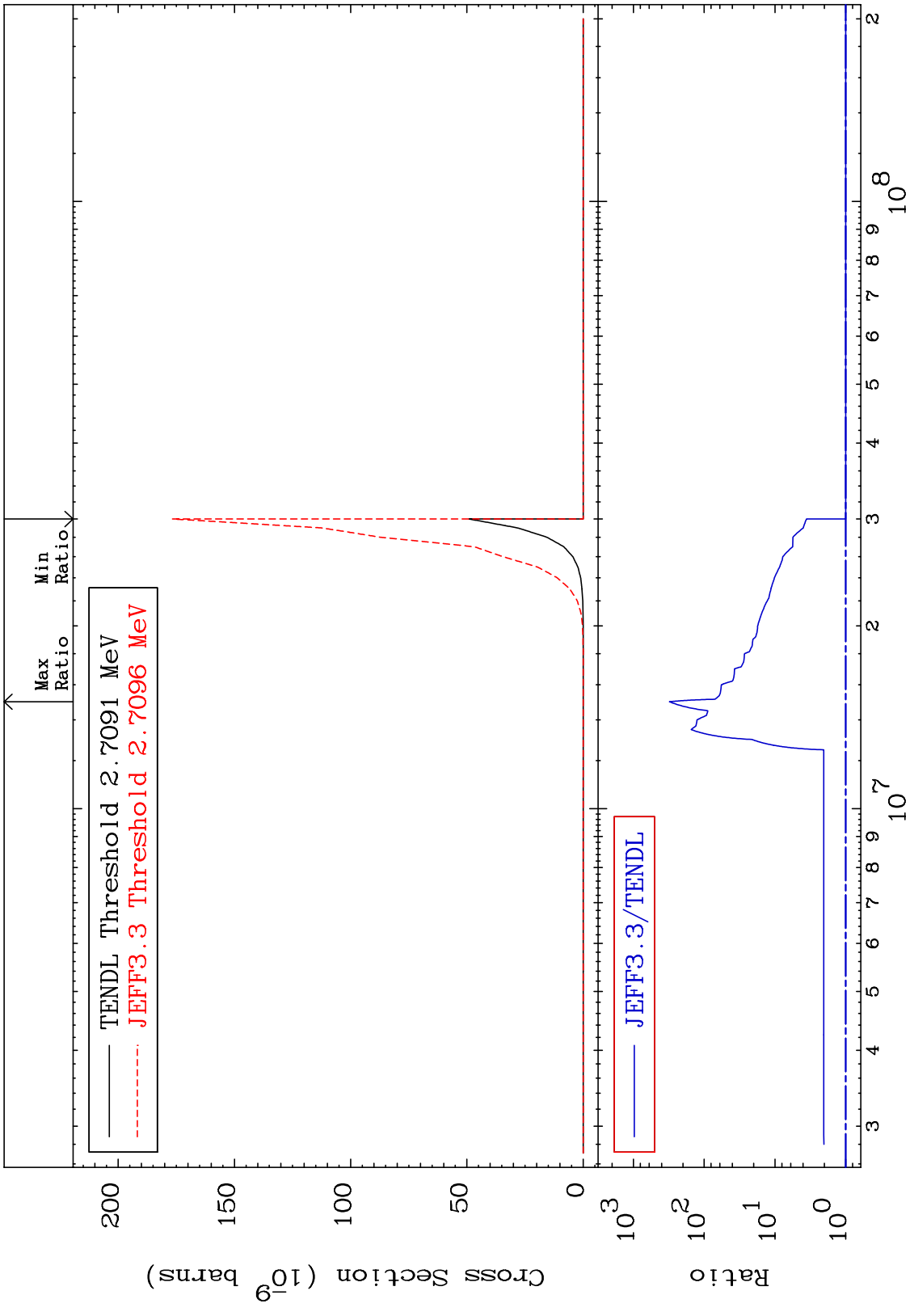
70-Yb-168

Radionuclide Production Cross Section 0.000 To 0.451 %



83

MAT 7025 (n, d)  $\alpha$ : 67-Ho-163g 70-Yb-168  
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 7025 (n,d)  $\alpha$ :67-Ho-163m3 70-Yb-168  
 Radionuclide Production Cross Section 0.000 To 9999. %

