

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

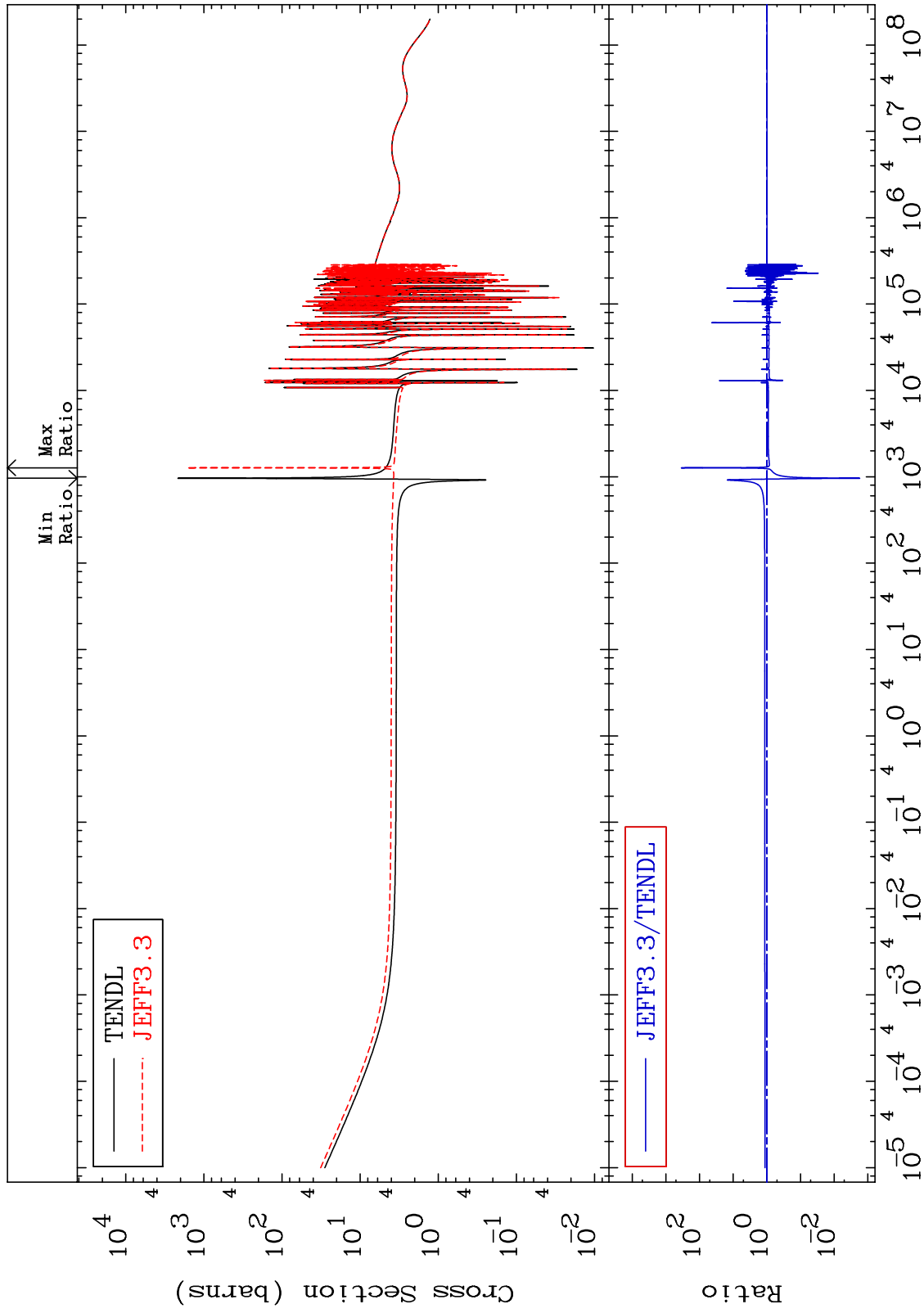
MAT 3043

Total

30-Zn-70

Cross Section

-99.83 To 9999. %



1

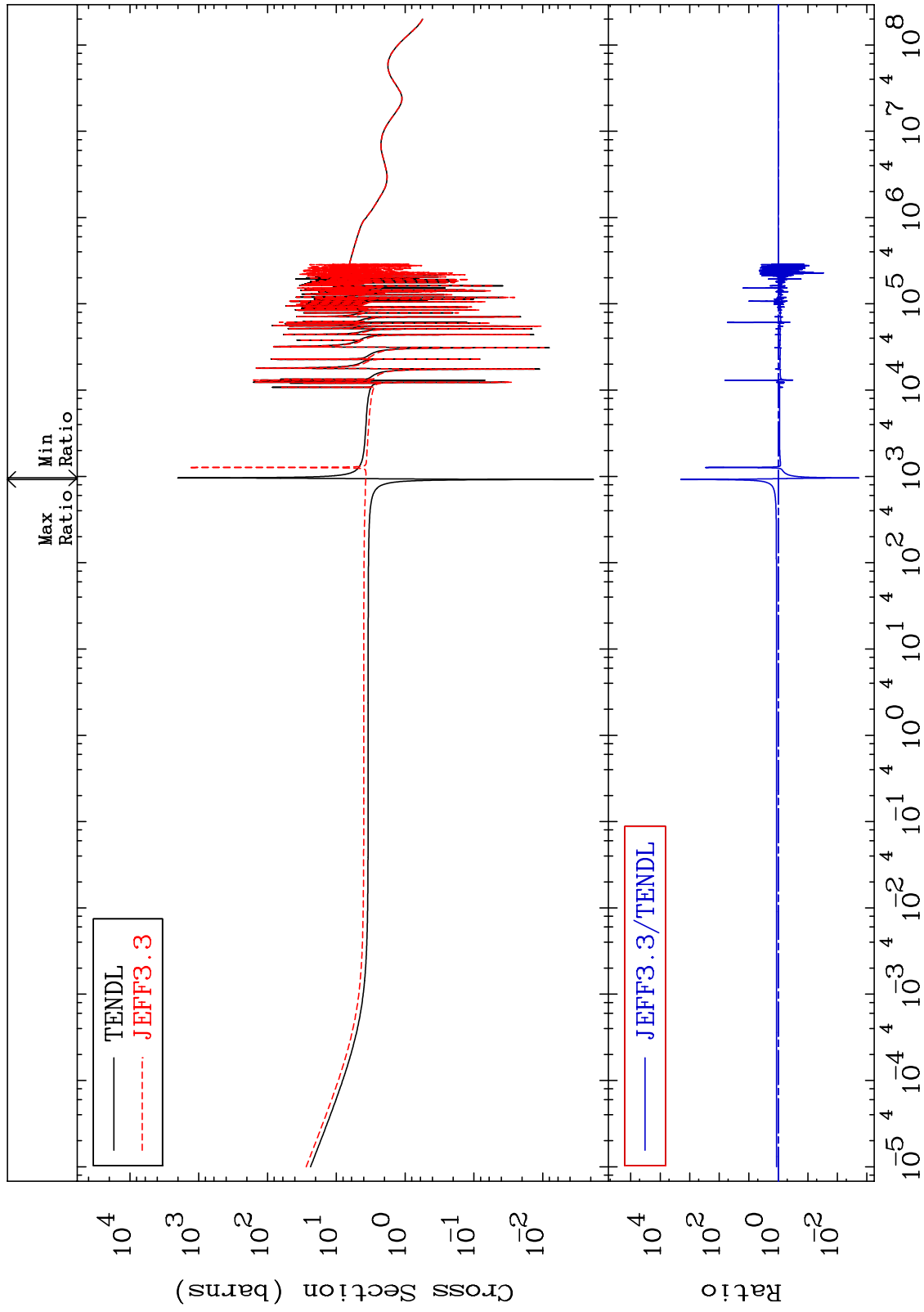
Incident Energy (eV)

30-Zn-70

MAT 3043

Elastic  
Cross Section

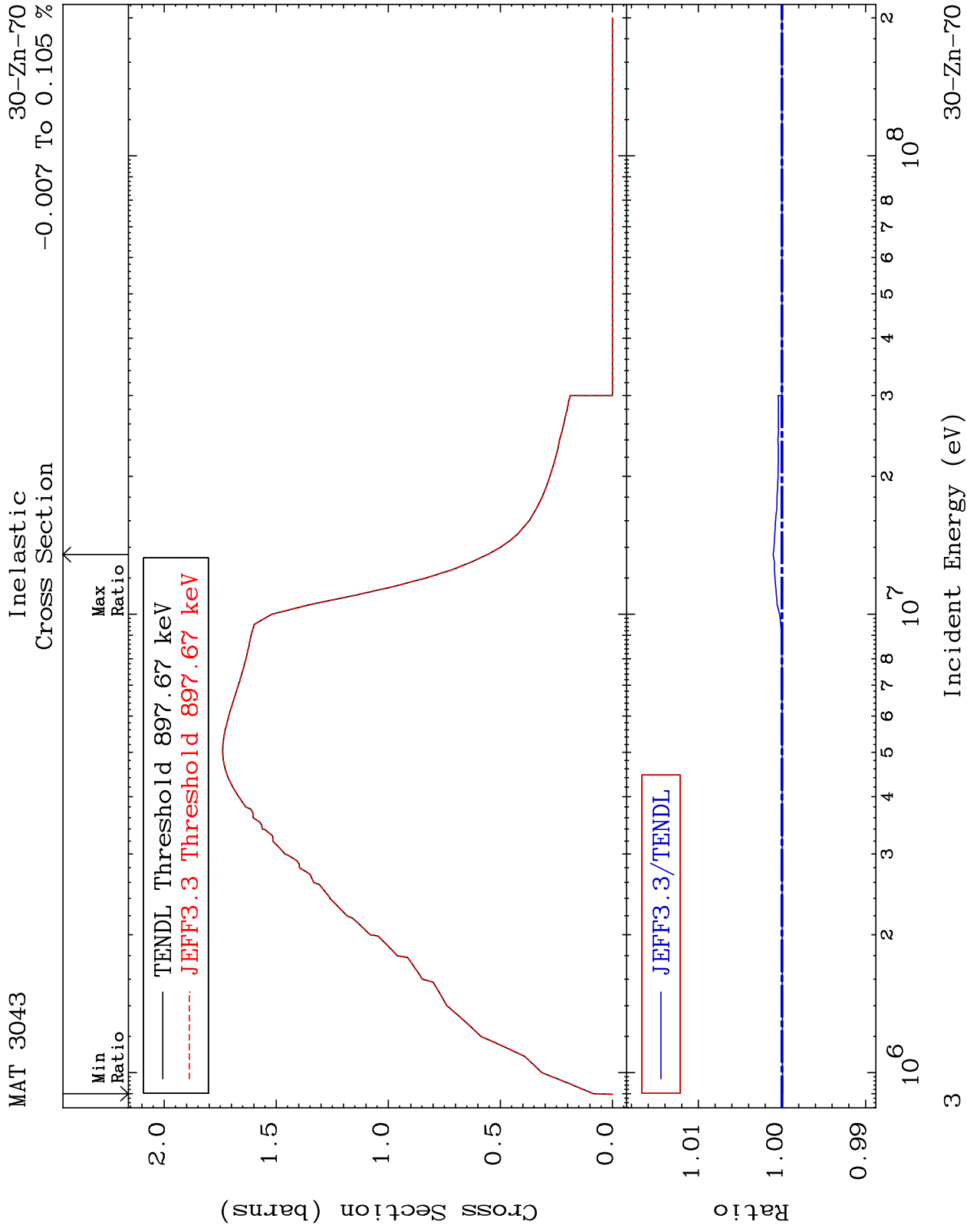
30-Zn-70  
-99.81 To 9999. %



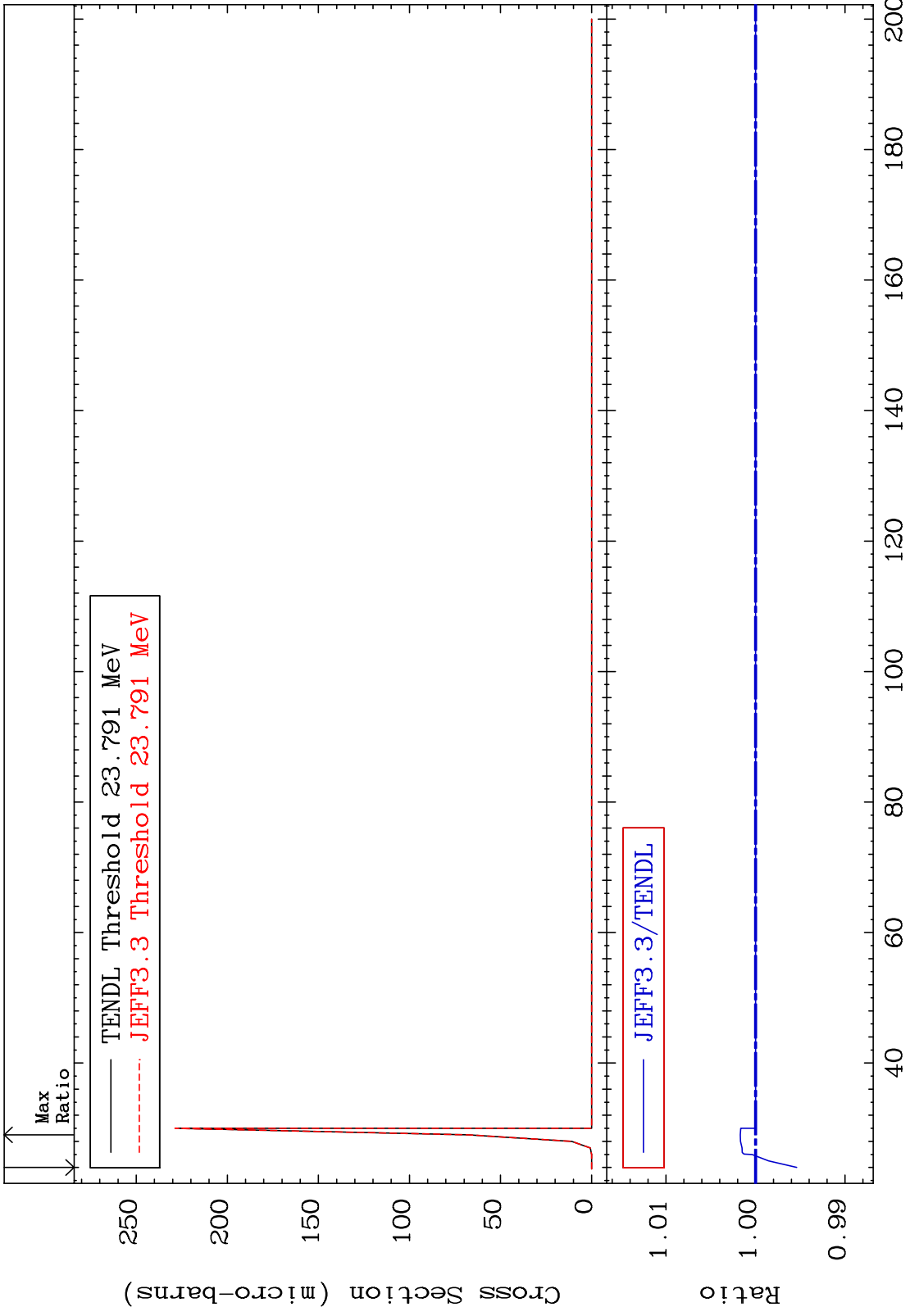
2

Incident Energy (eV)

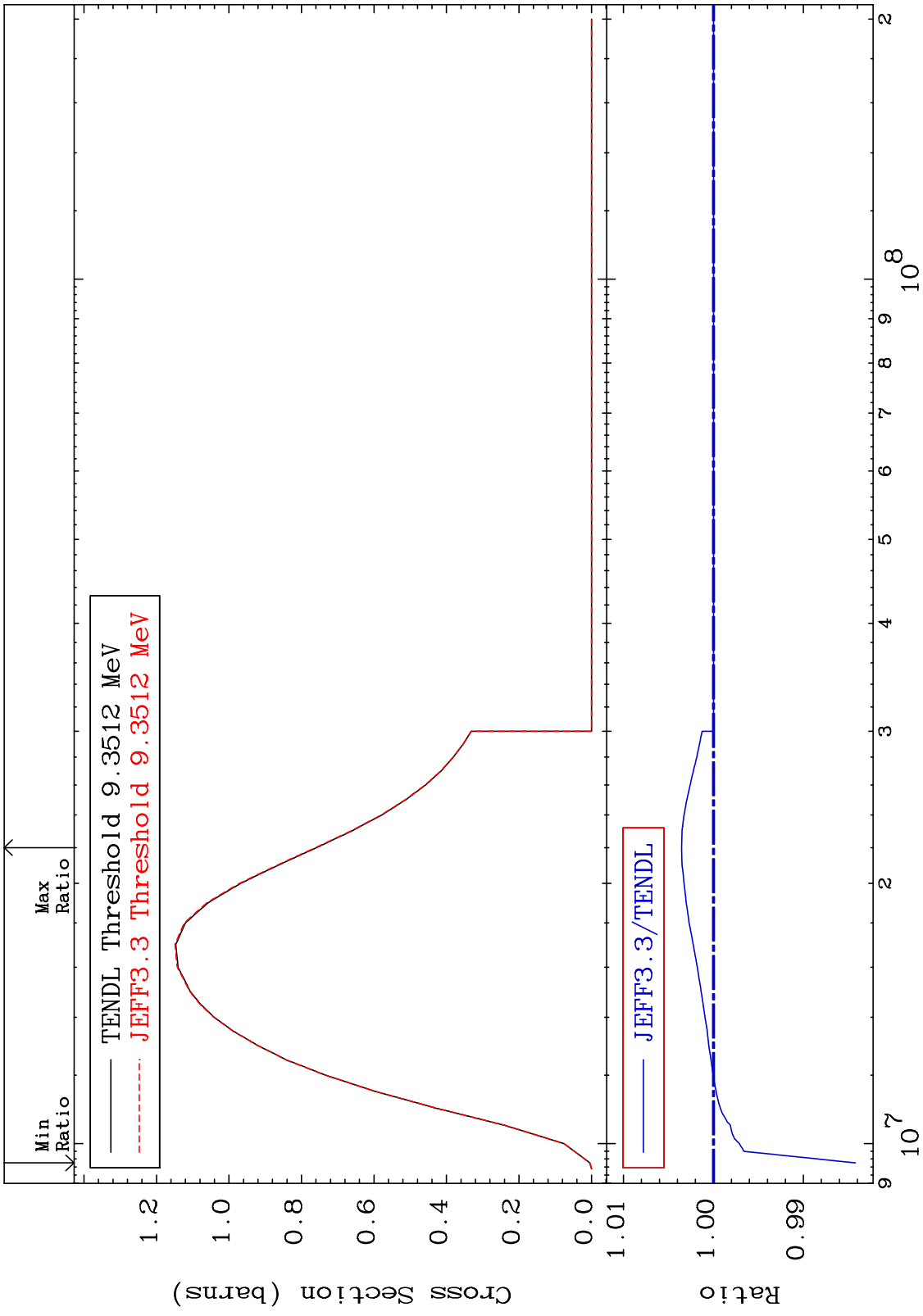
30-Zn-70



MAT 3043 (n,2n) d 30-Zn-70  
 Cross Section -0.460 To 0.169 %

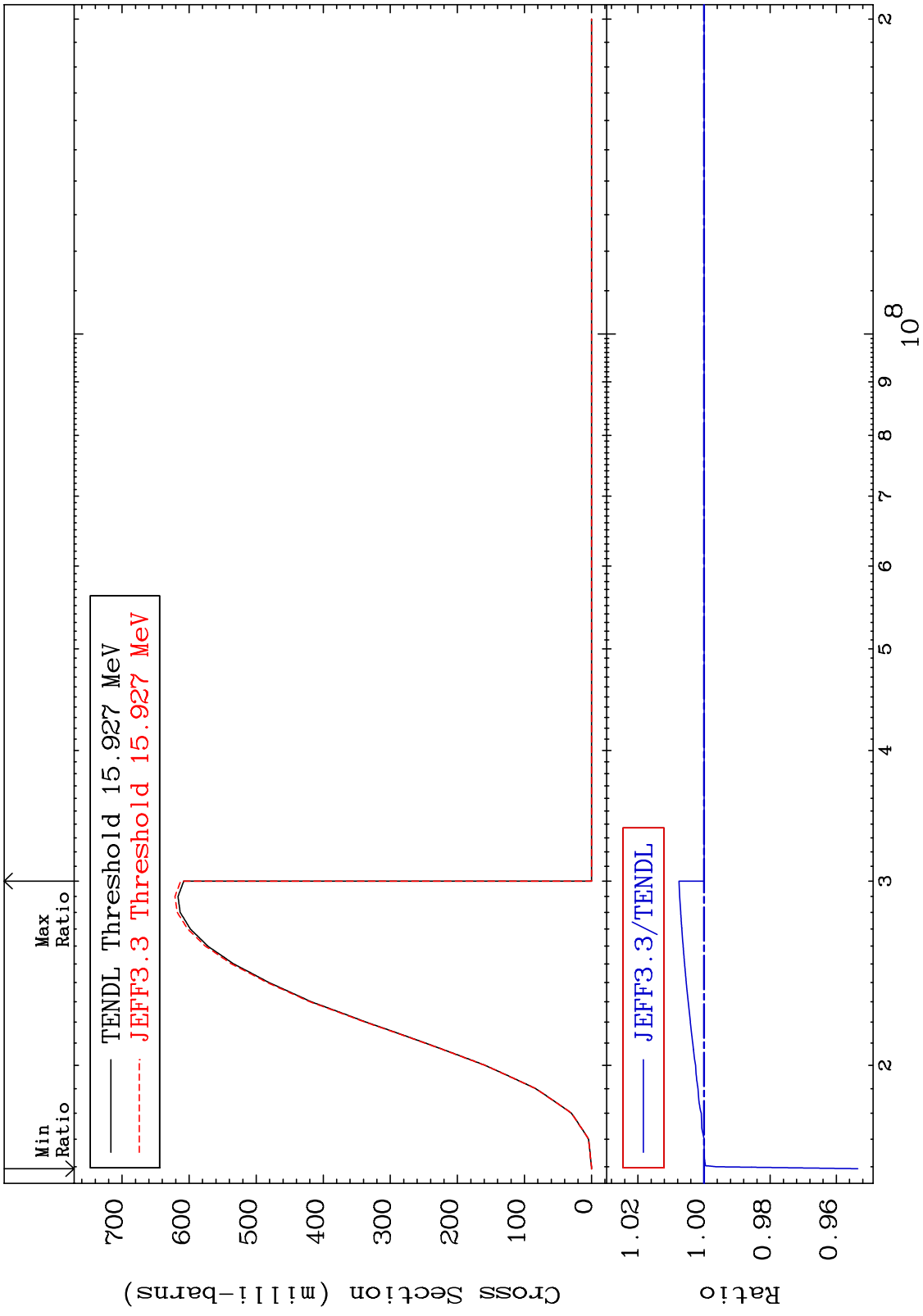


MAT 3043  $(n,2n)$  Cross Section  $30\text{-Zn-70}$   
 $-1.578$  To  $0.355$  %



Incident Energy (eV)  $30\text{-Zn-70}$

MAT 3043 (n,3n) 30-Zn-70  
 Cross Section -4.651 To 0.756 %



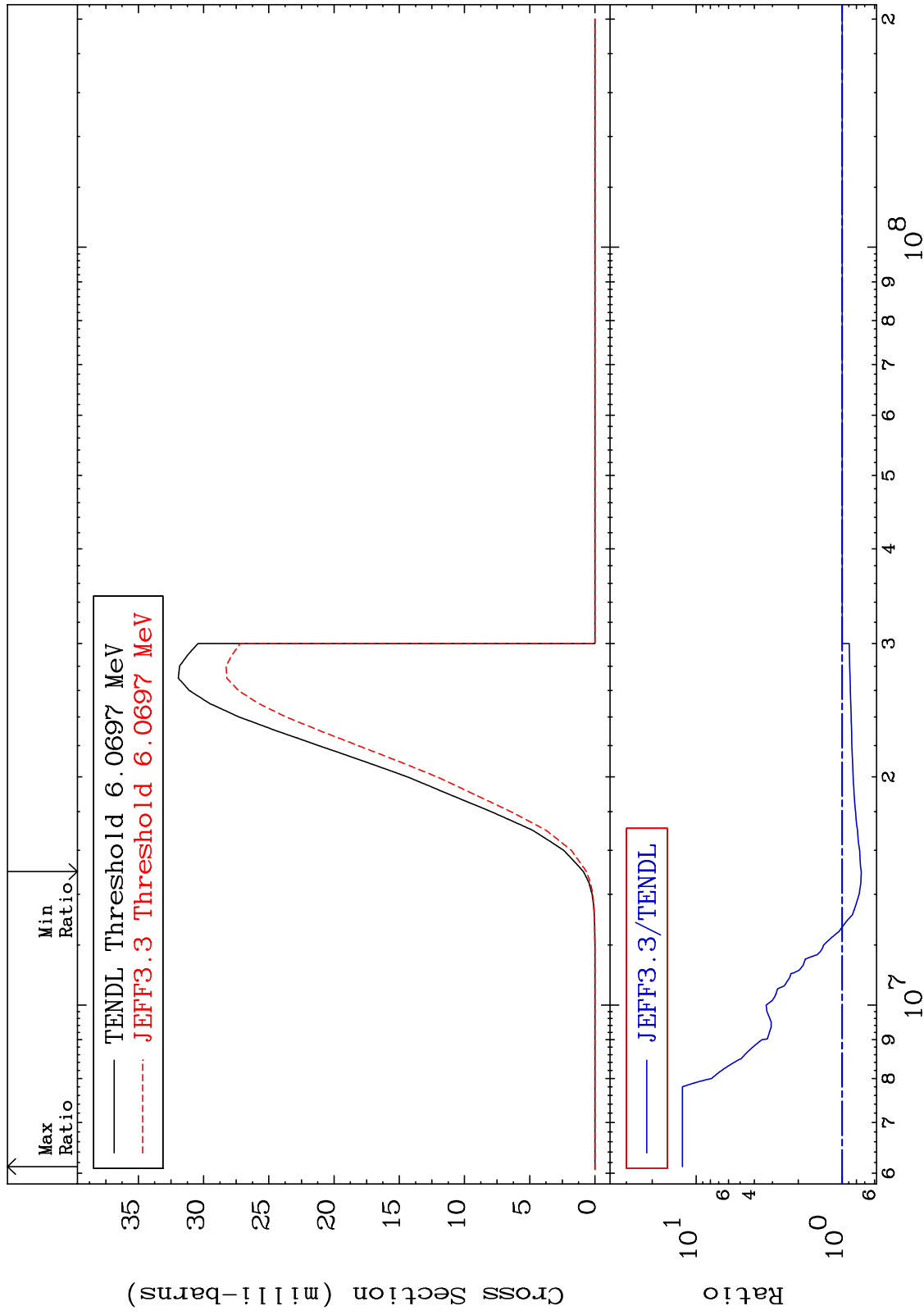
MAT 3043

(n, n')  $\alpha$

30-Zn-70

Cross Section

-26.01 To 1141. %



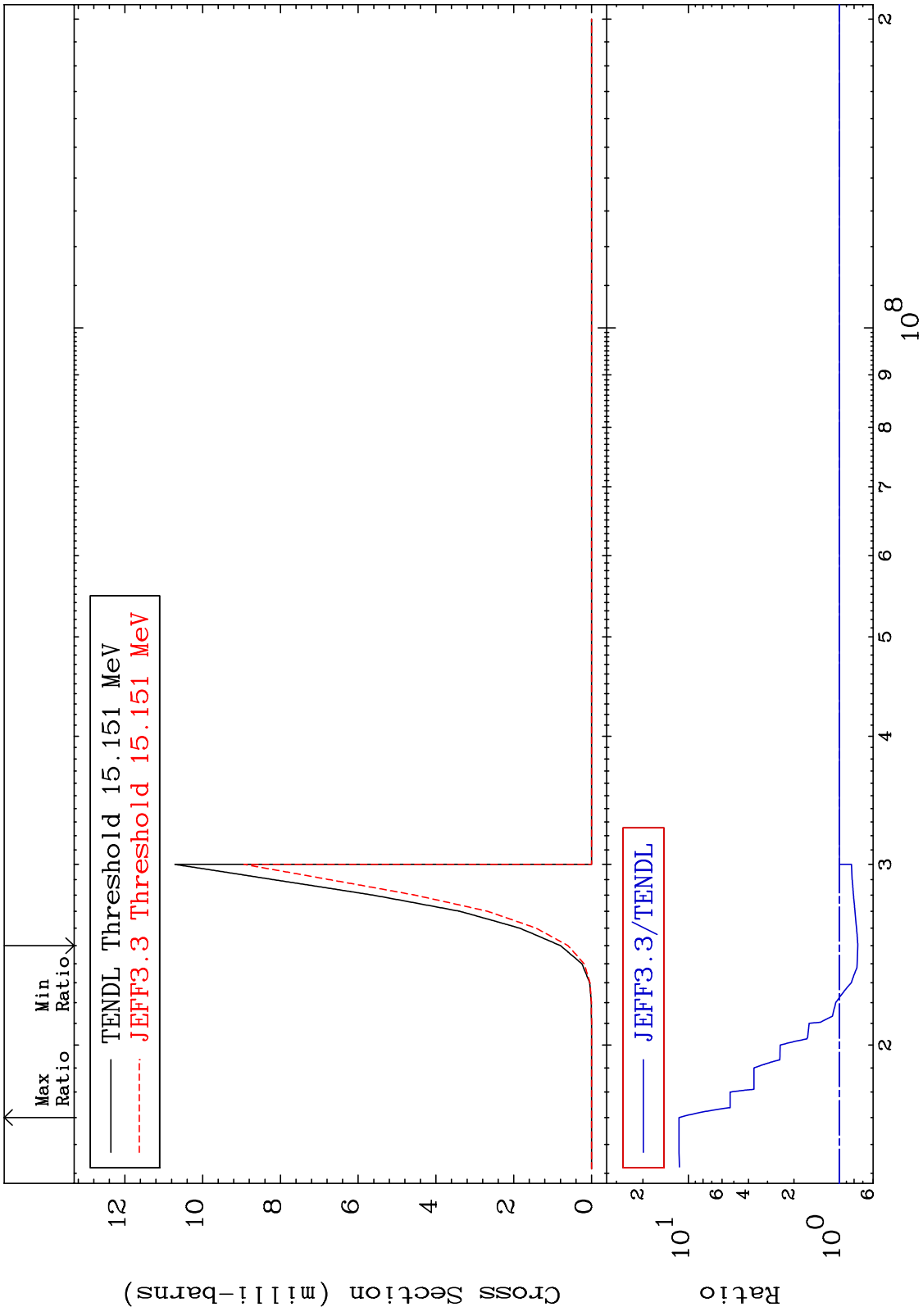
7

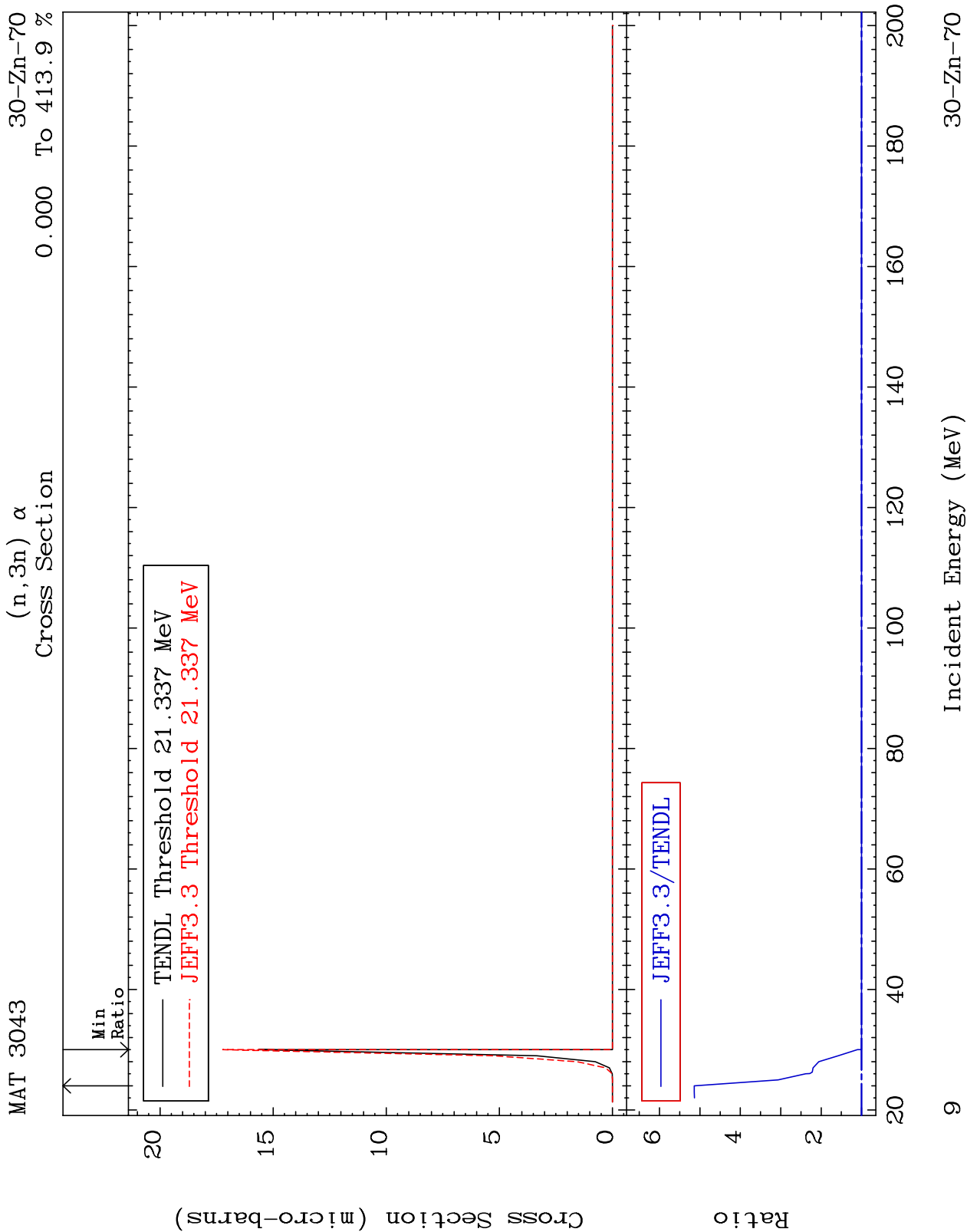
Incident Energy (eV)

30-Zn-70



MAT 3043  $(n, 2n) \alpha$  30-Zn-70  
 Cross Section -24.41 To 1054. %

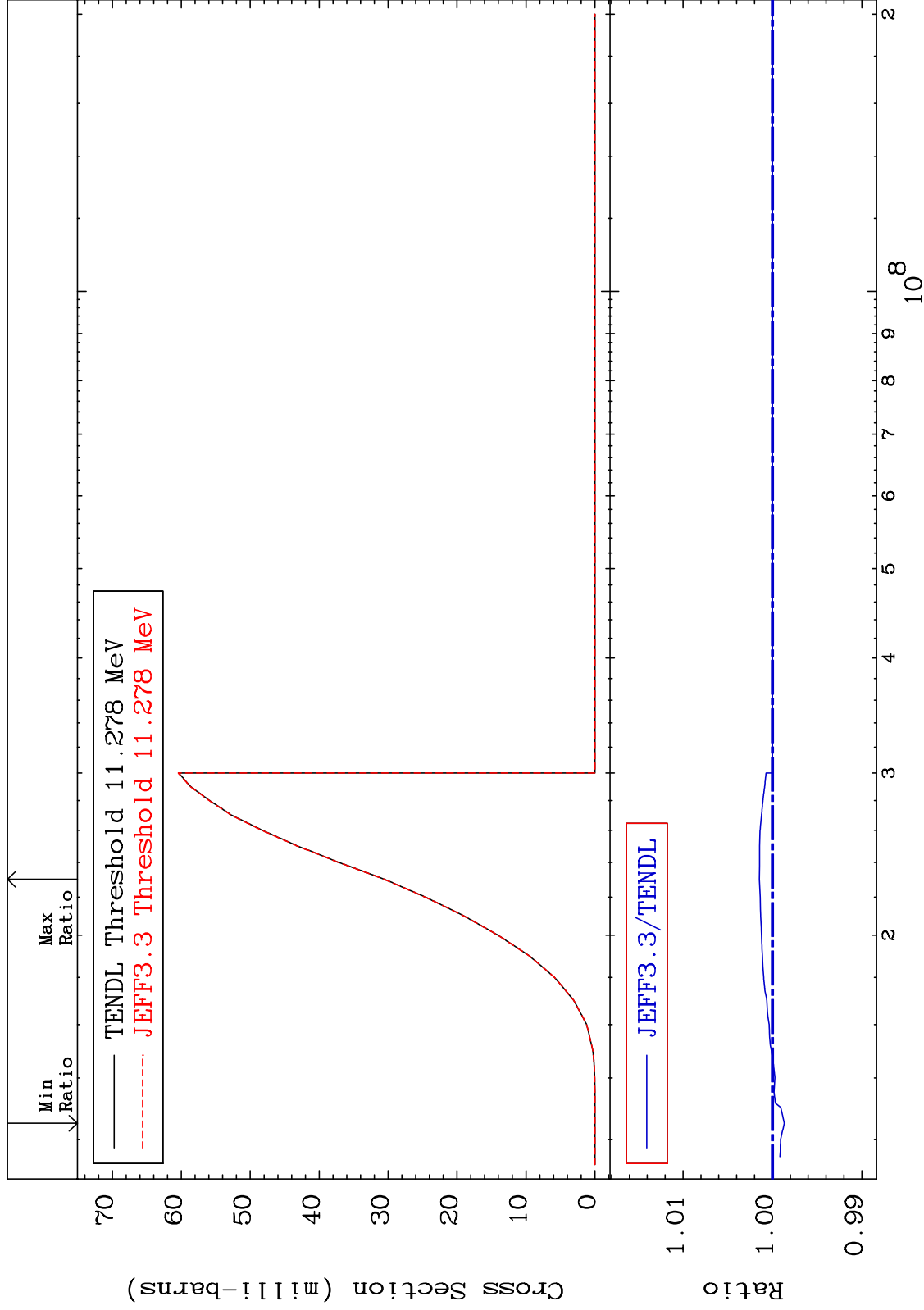




MAT 3043

(n, n') p  
Cross Section

30-Zn-70  
-0.133 To 0.145 %

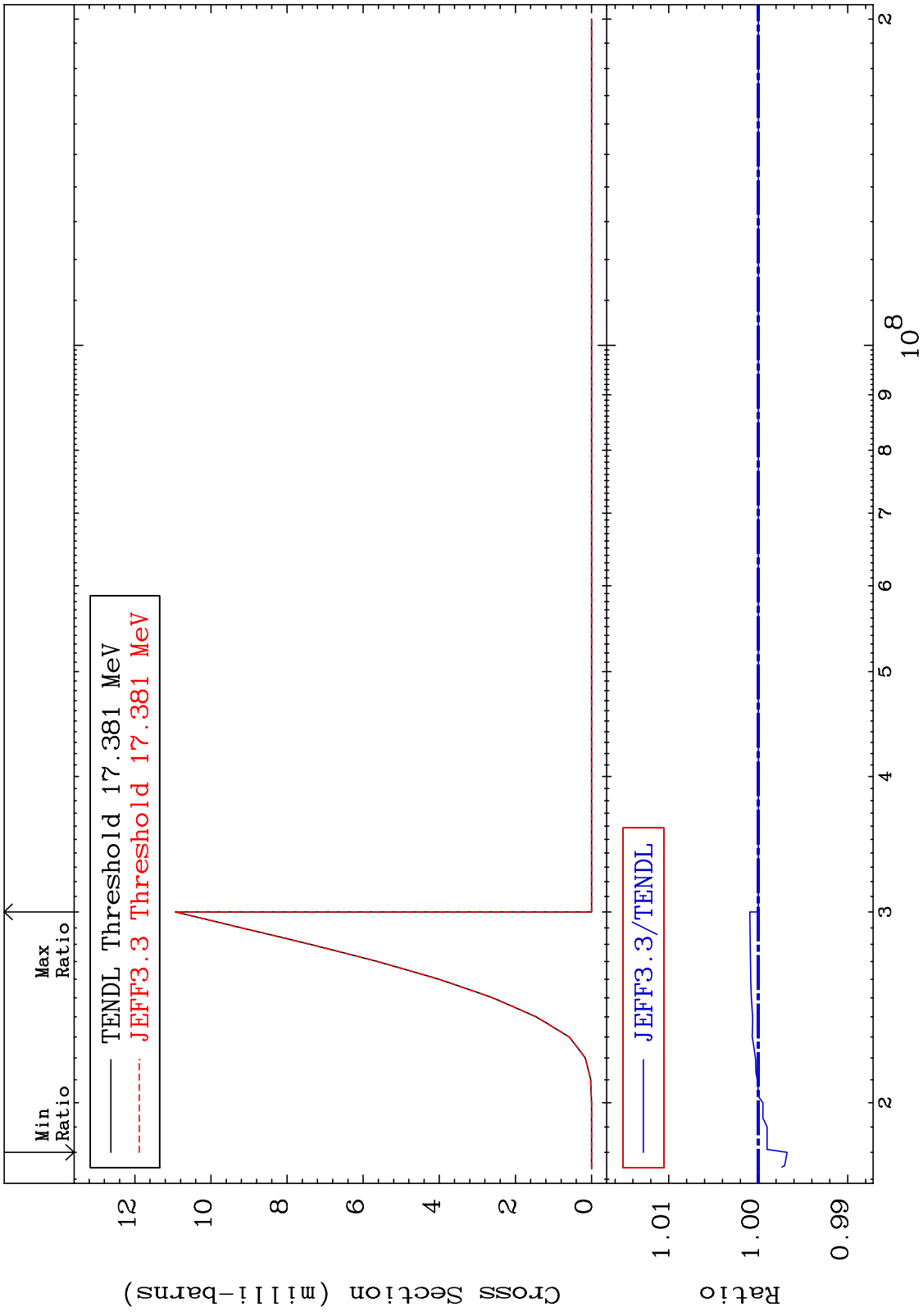


10

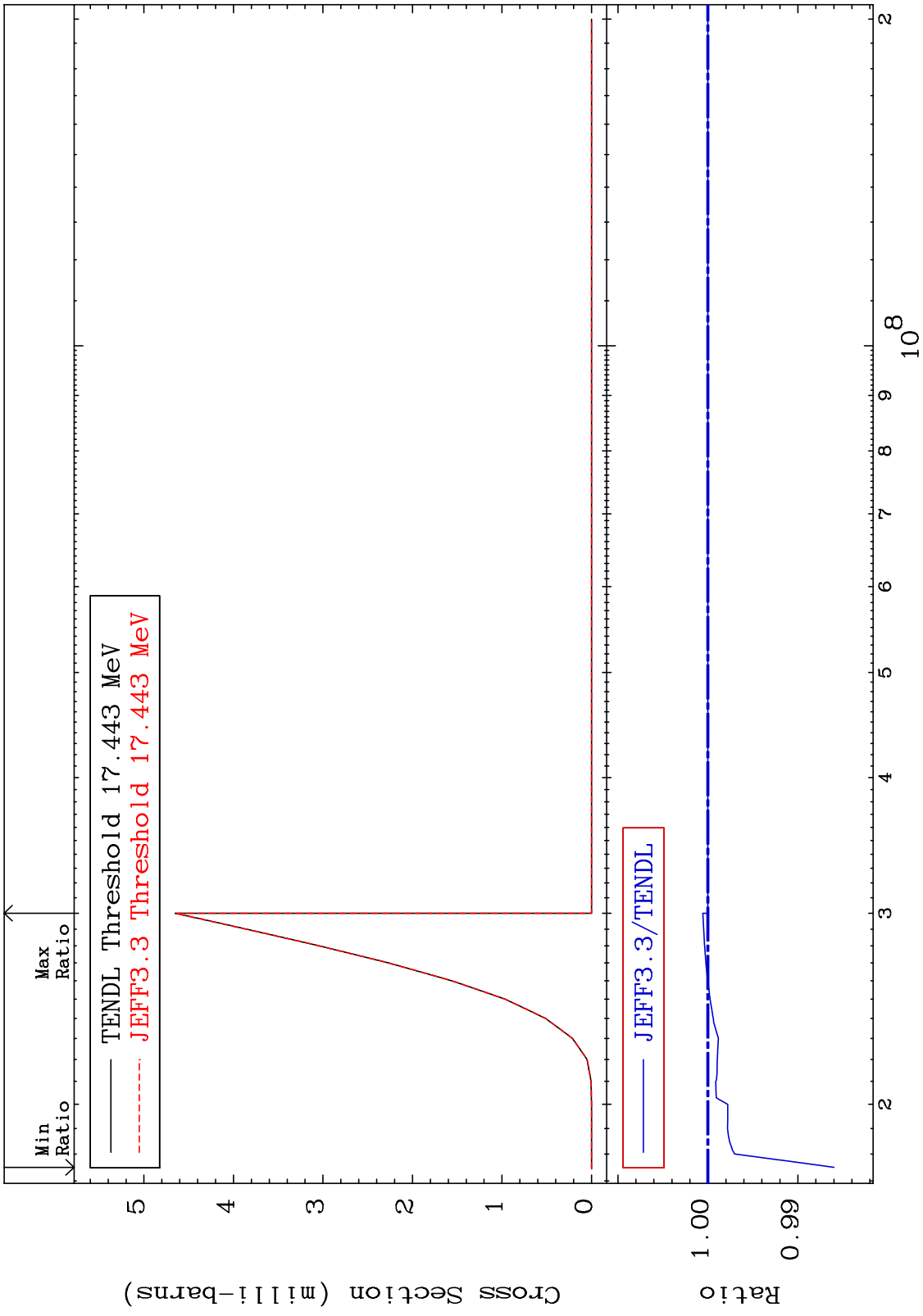
Incident Energy (eV)

30-Zn-70

MAT 3043  $(n, n')$  d 30-Zn-70  
 Cross Section -0.322 To 0.094 %



MAT 3043 (n, n') t 30-Zn-70  
 Cross Section -1.401 To 0.056 %



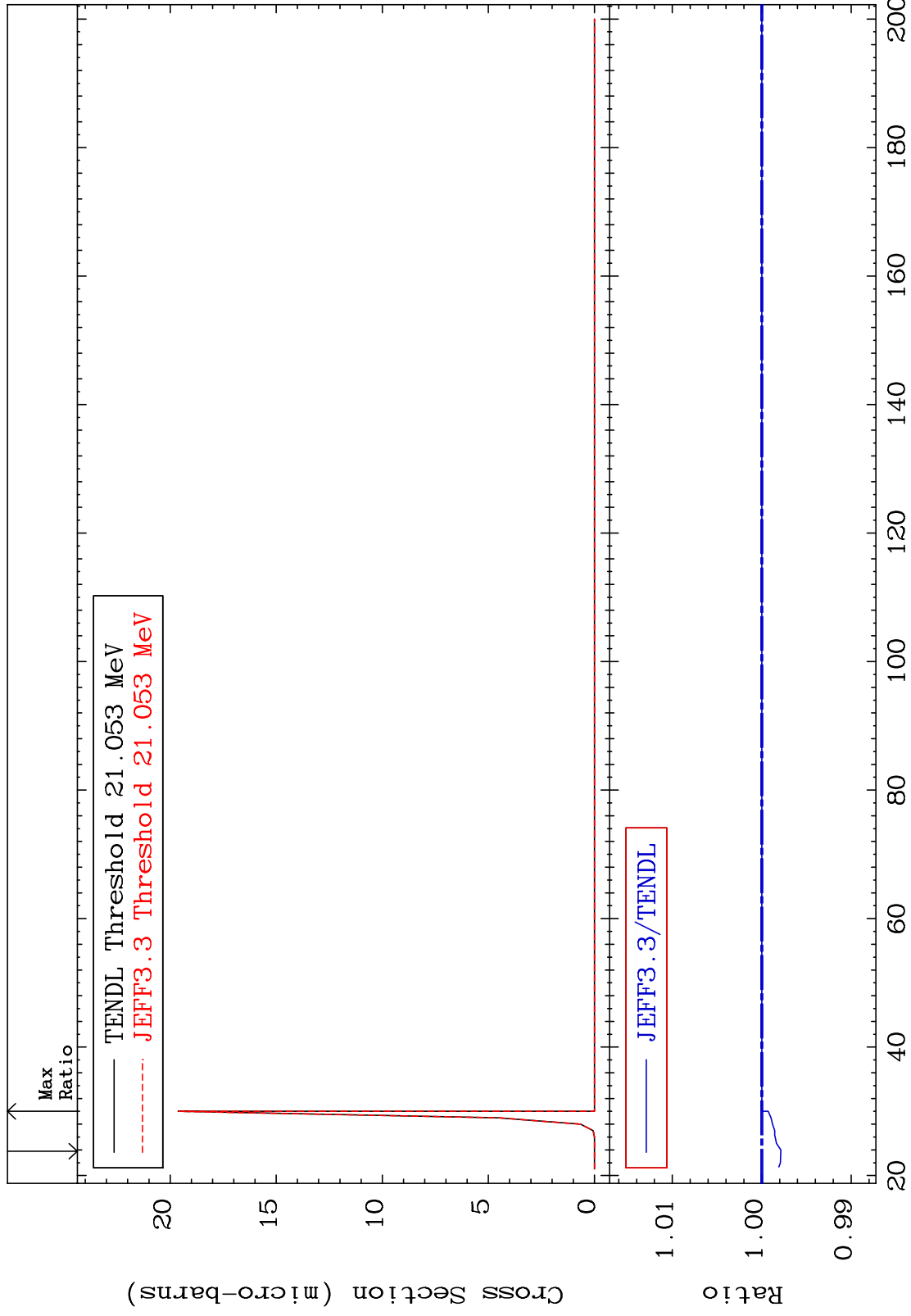
30-Zn-70

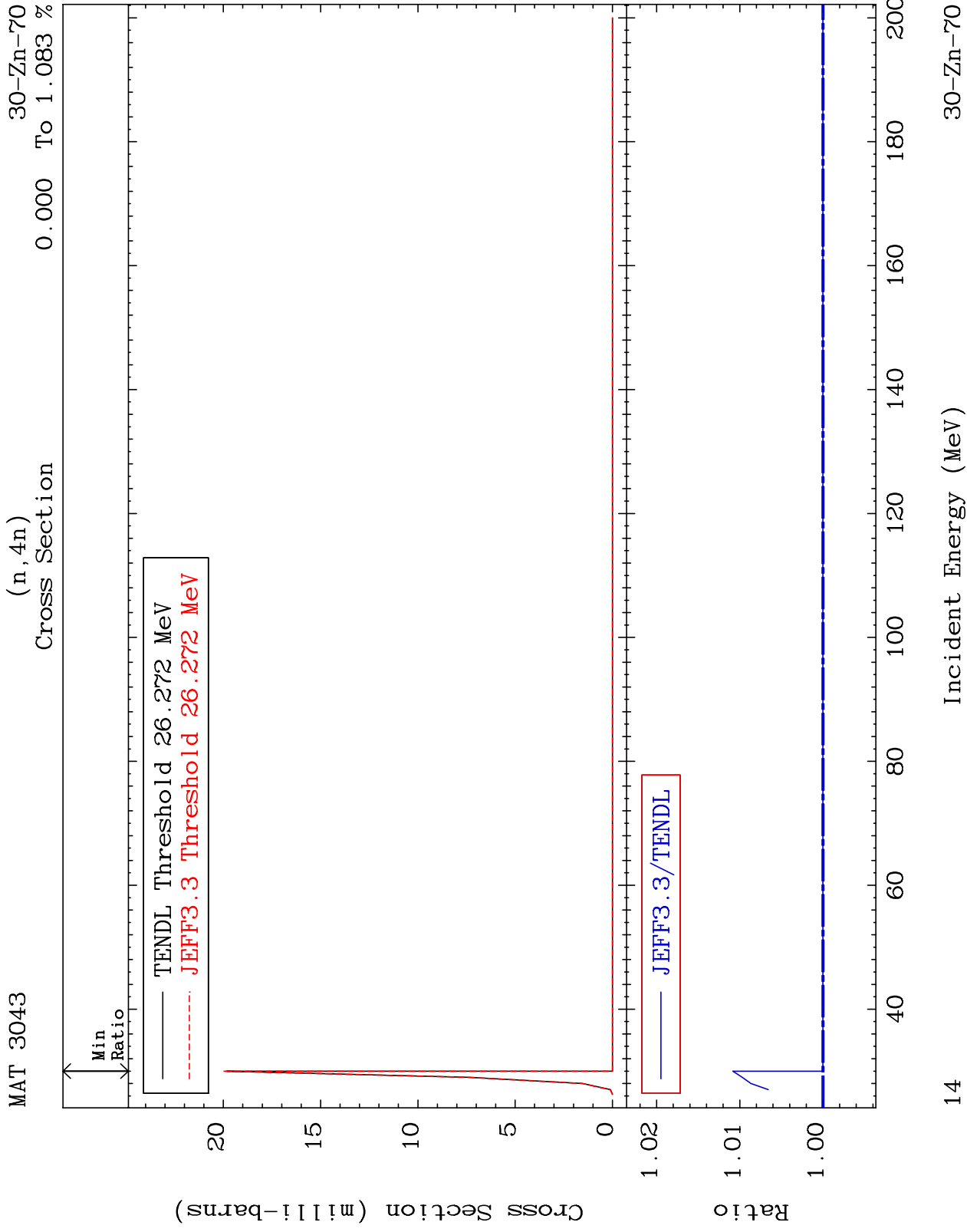
Incident Energy (eV)

MAT 3043

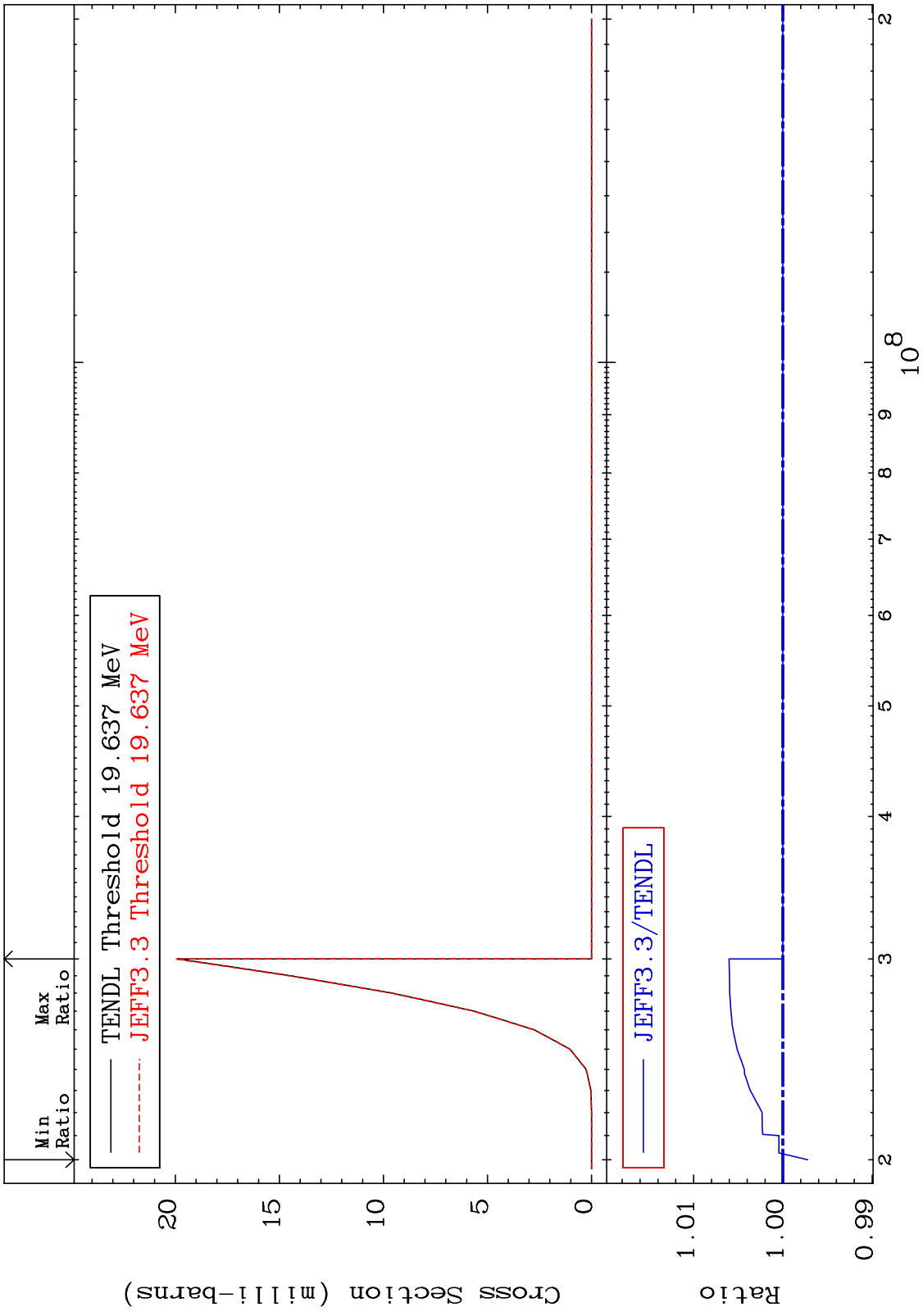
(n, n') He-3  
Cross Section

30-Zn-70  
-0.213 To 0.000 %



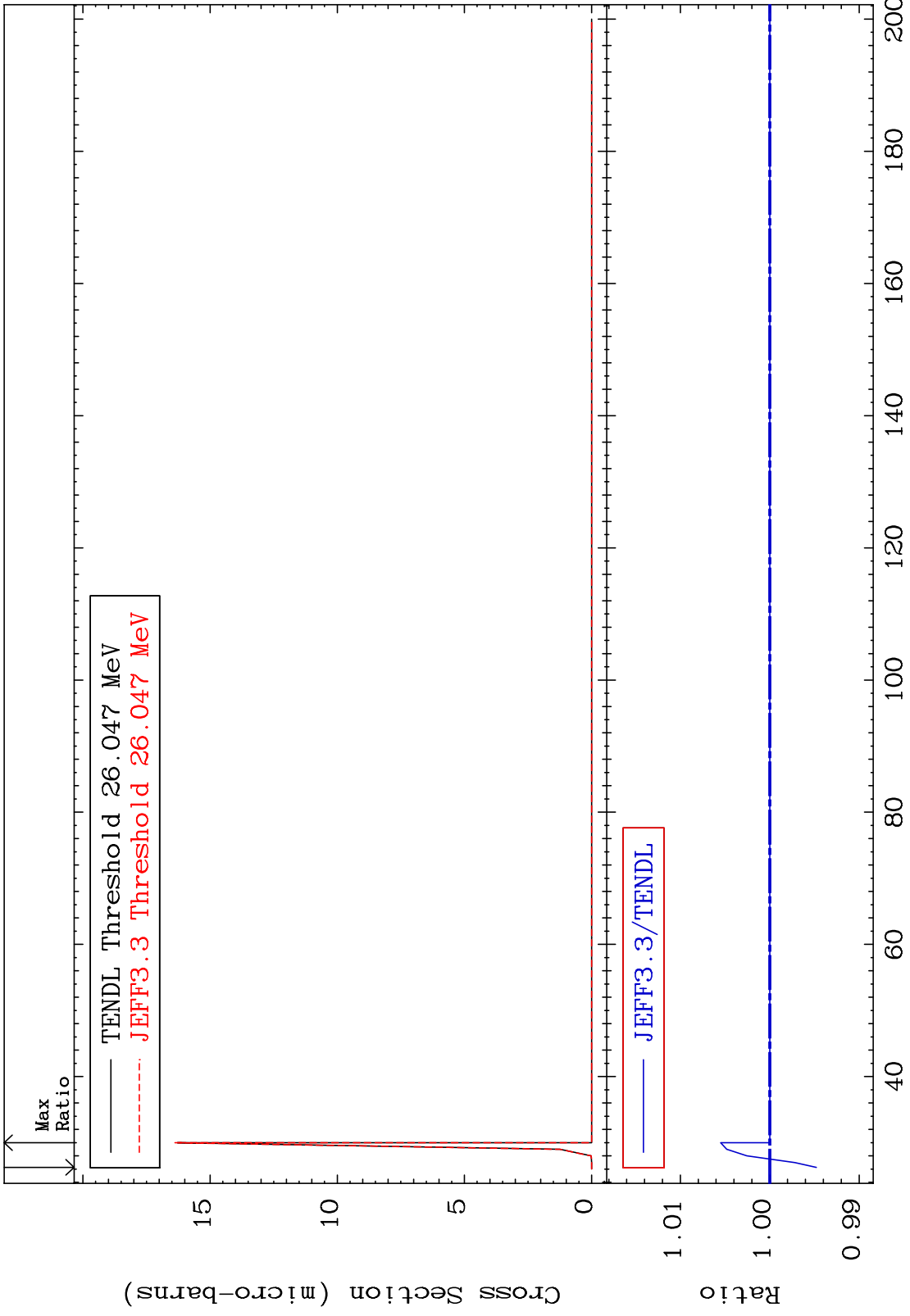


MAT 3043 (n,2n) p 30-Zn-70  
 Cross Section -0.279 To 0.602 %



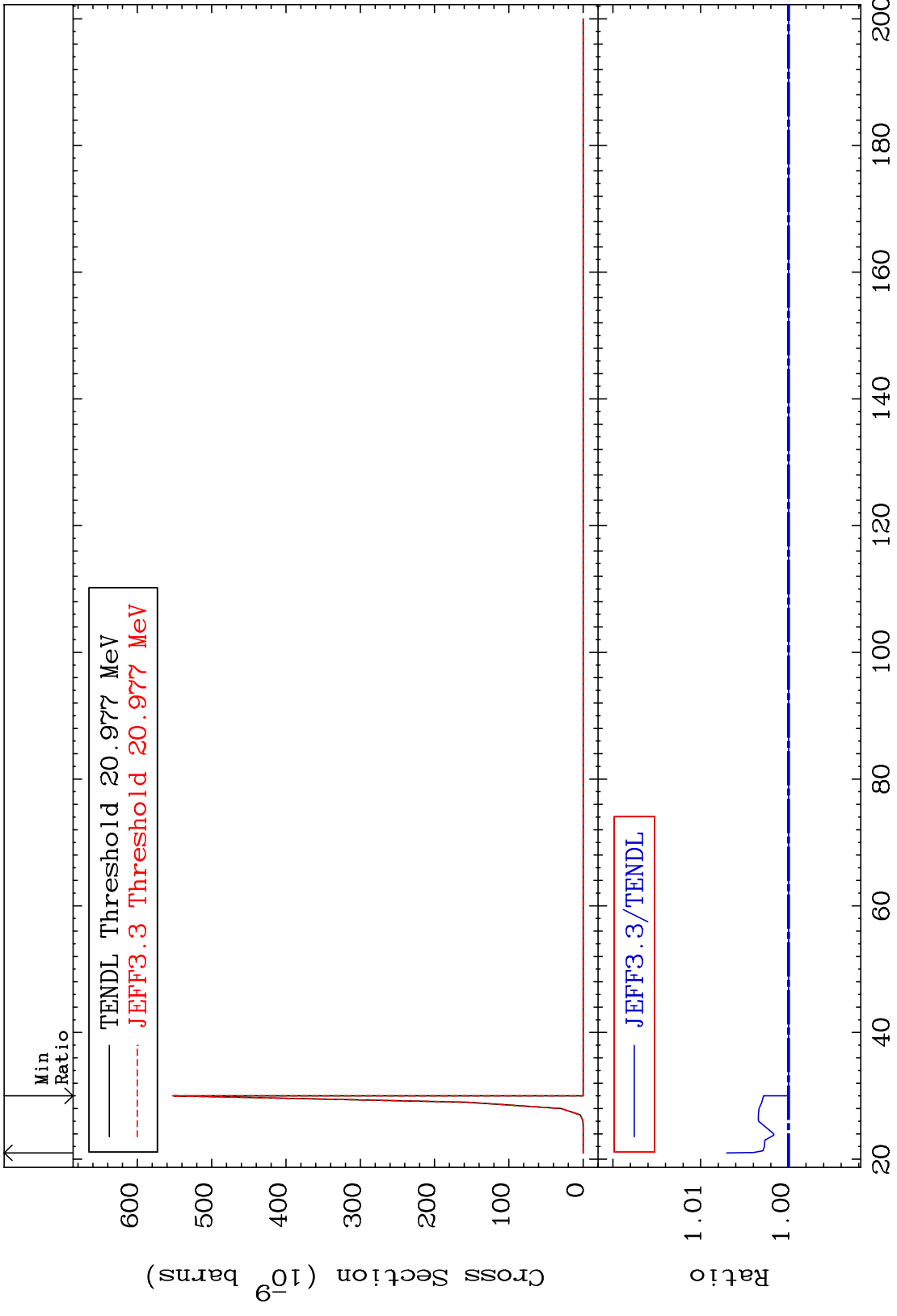


MAT 3043 (n,3n) p 30-Zn-70  
Cross Section -0.522 To 0.549 %



16 30-Zn-70 Incident Energy (MeV)

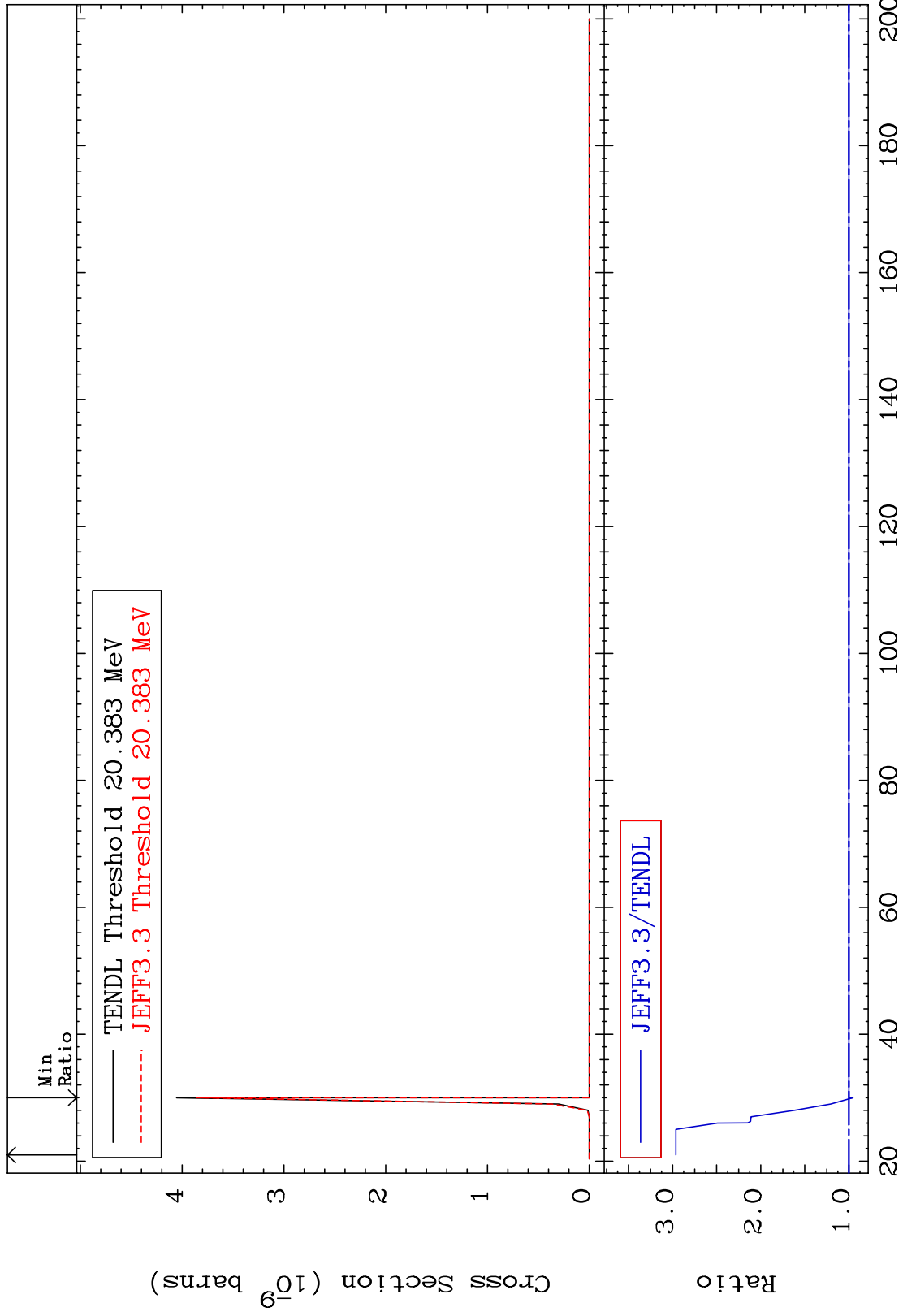
MAT 3043 (n,2n) p 30-Zn-70  
Cross Section 0.000 To 0.704 %



MAT 3043

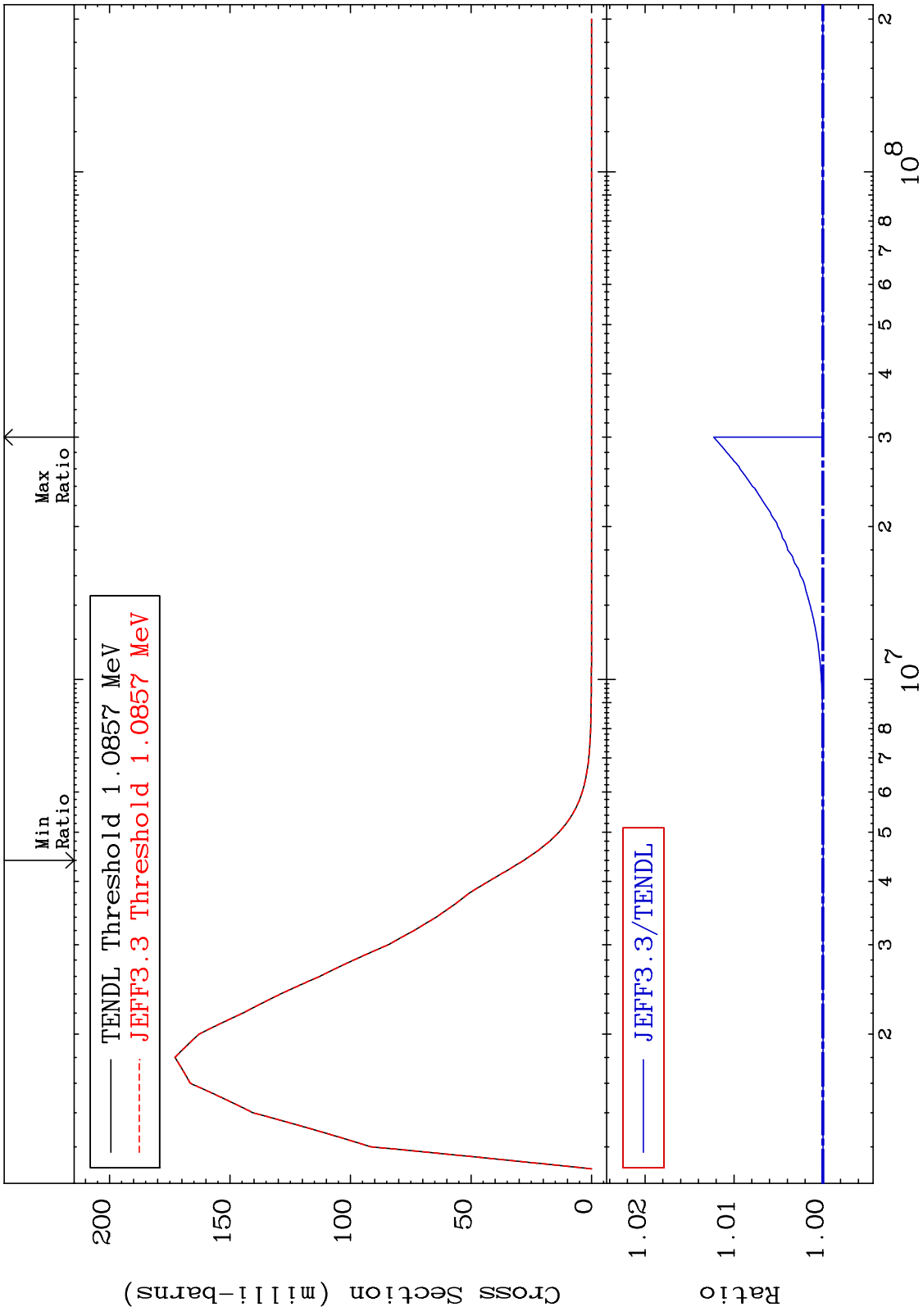
(n,n') p  $\alpha$   
Cross Section

30-Zn-70  
-4.778 To 196.2 %

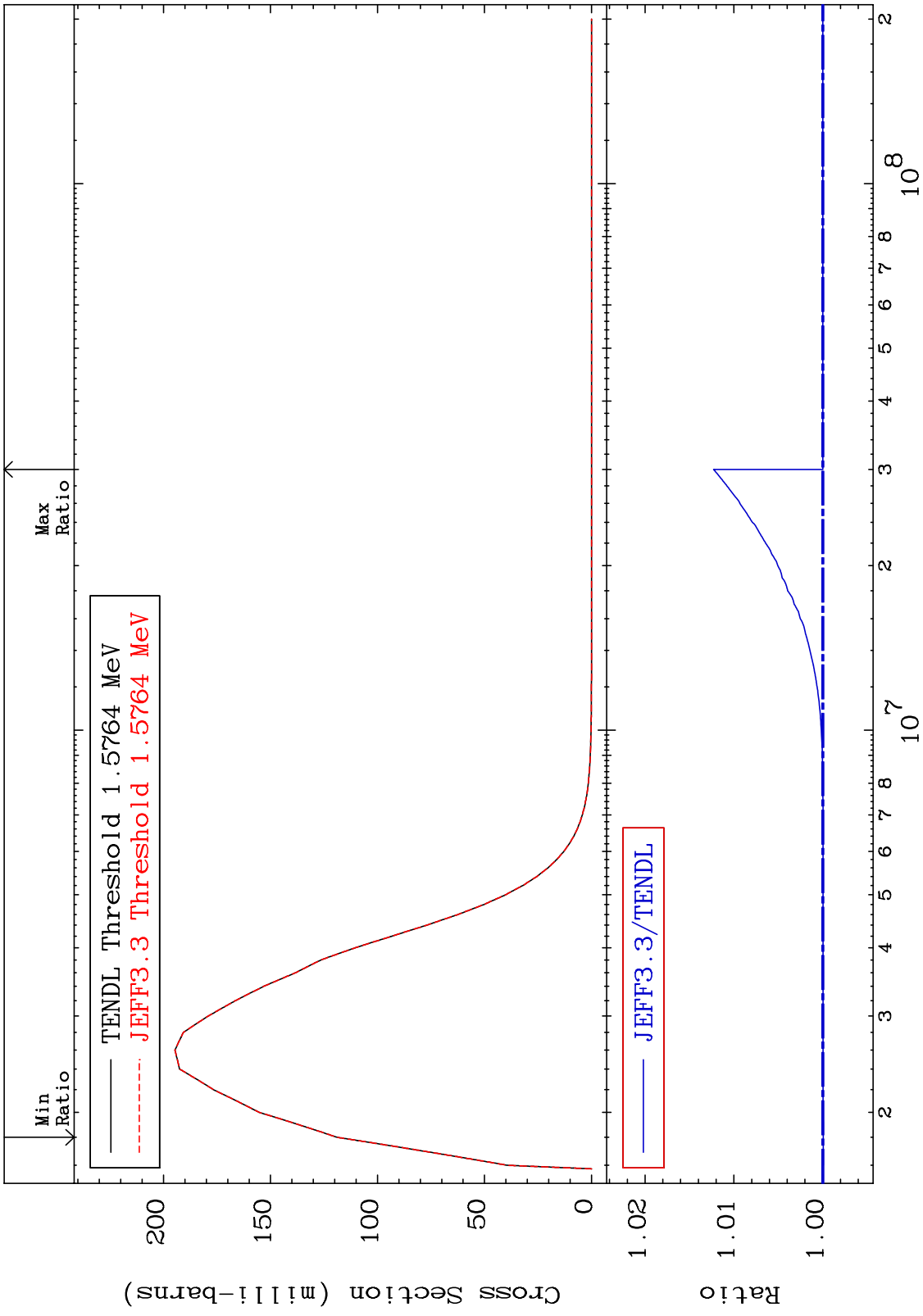


18

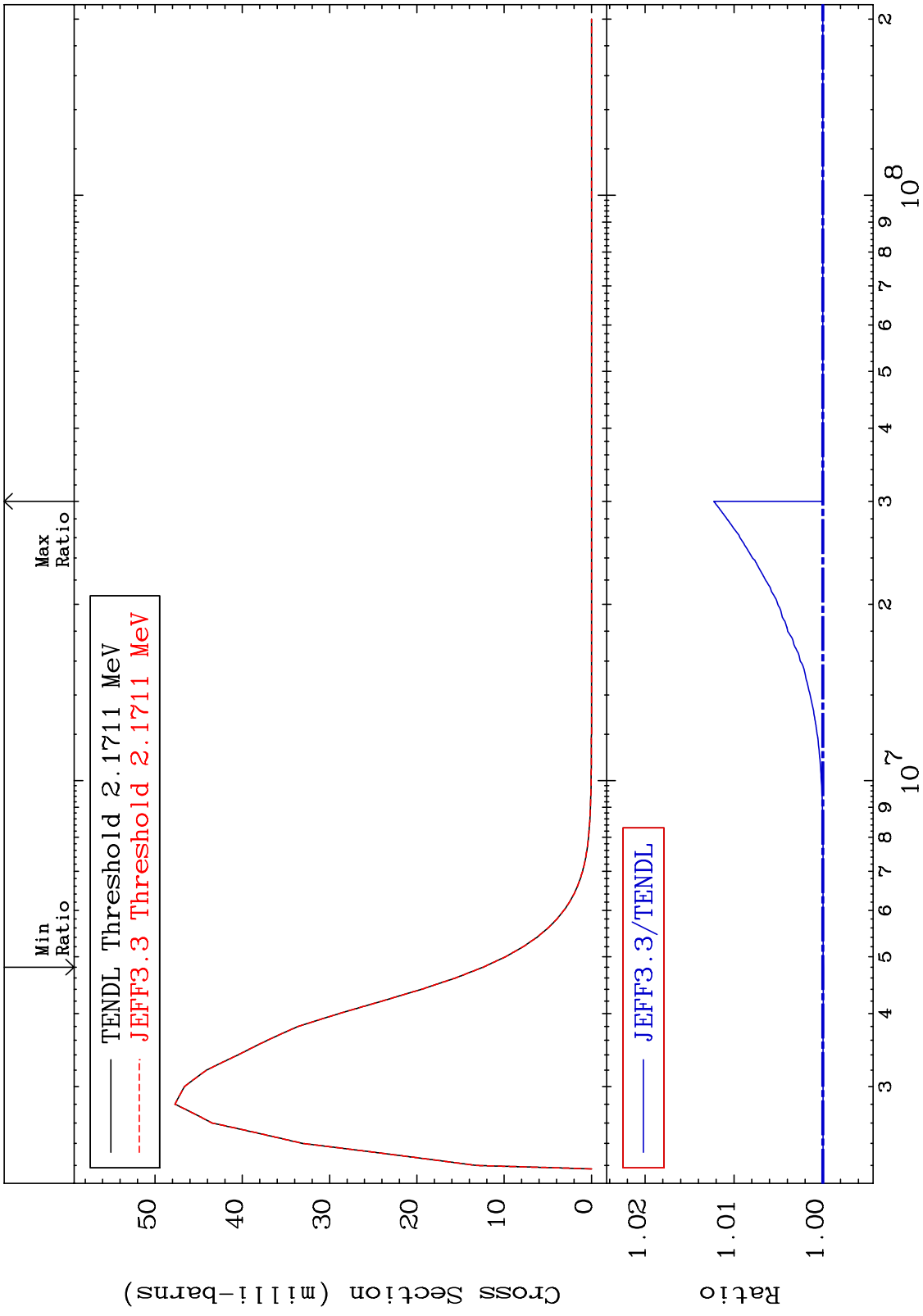
MAT 3043 MT= 52 (n,n') Level Cross Section -0.004 To 1.228 % 30-Zn-70



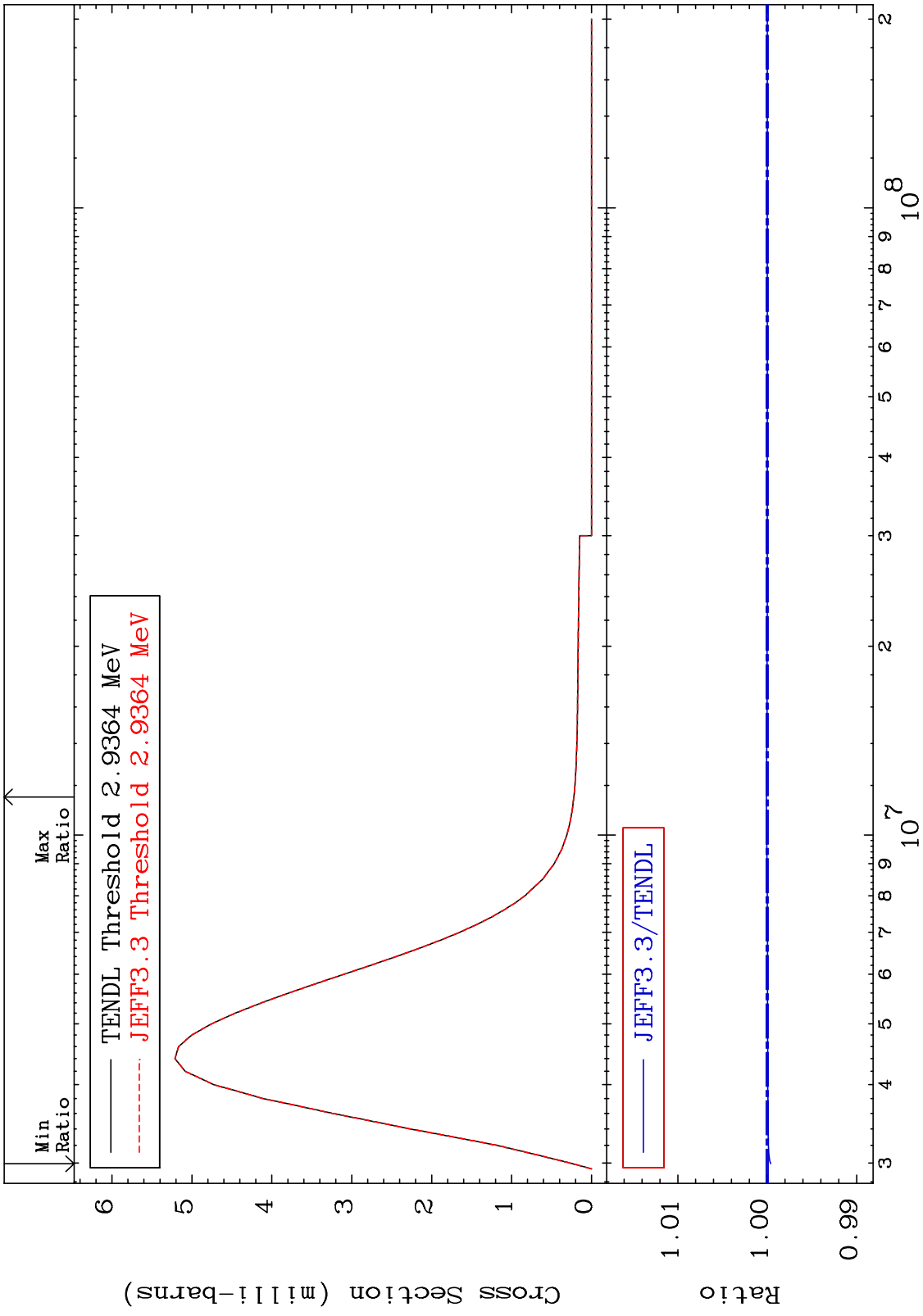
MAT 3043 MT= 53 (n,n') Level Cross Section 30-Zn-70  
 -0.006 To 1.229 %



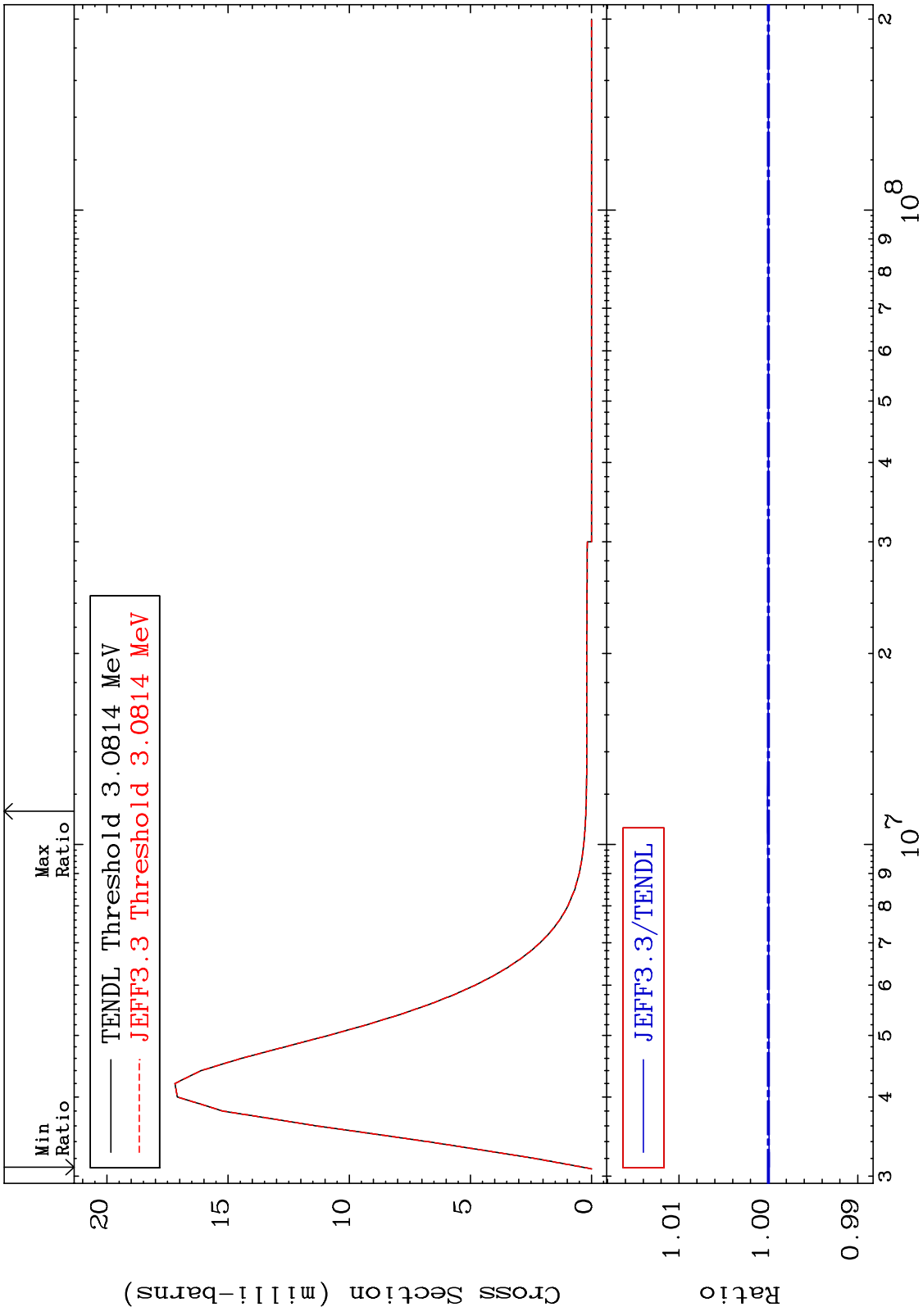
MAT 3043 MT= 57 (n,n') Level Cross Section 30-Zn-70  
 -0.004 To 1.229 %



MAT 3043 MT= 64 (n,n') Level Cross Section 30-Zn-70  
 -0.037 To 0.009 %



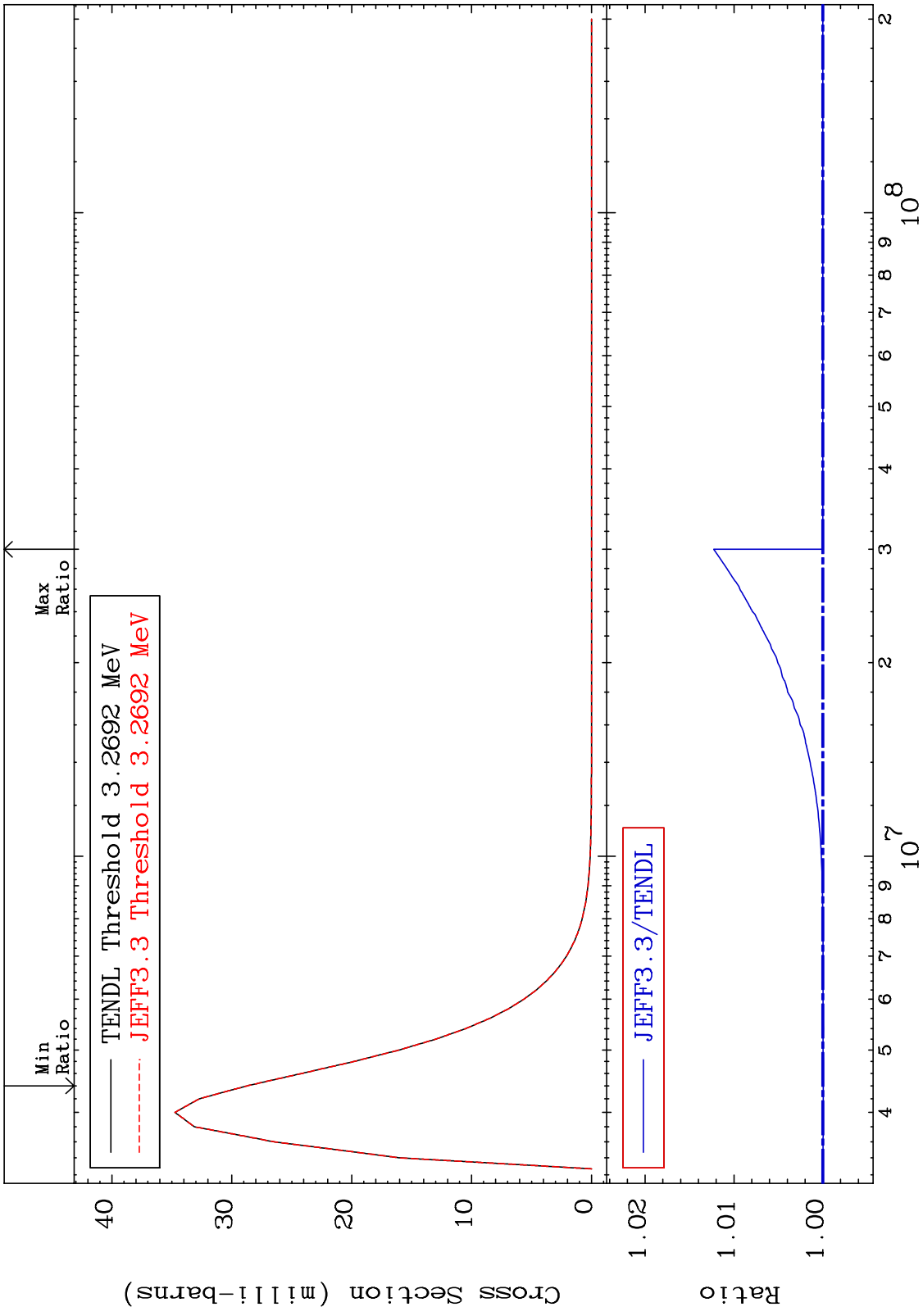
MAT 3043 MT= 67 (n,n') Level Cross Section 30-Zn-70  
 -0.010 To 0.010 %



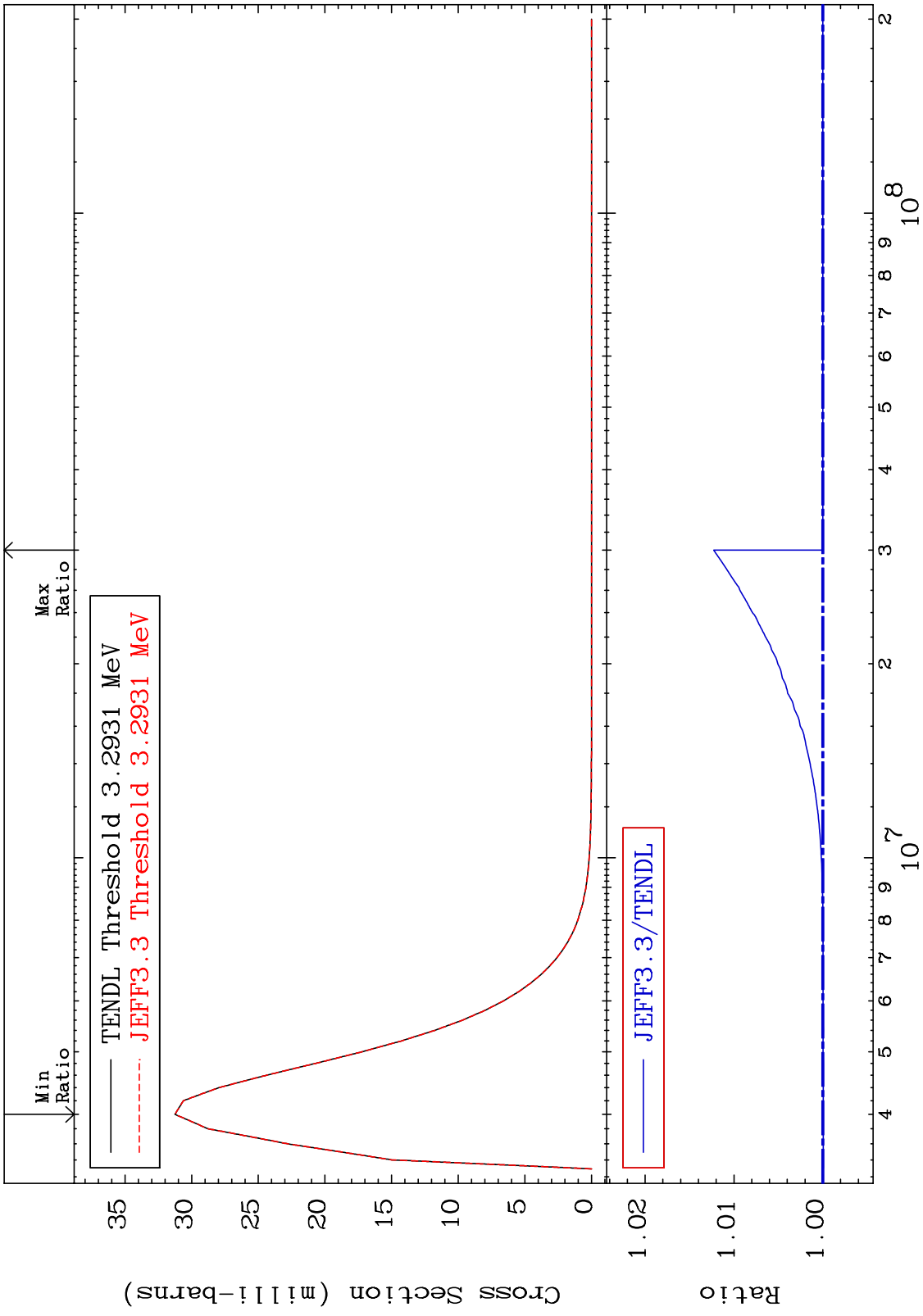
30-Zn-70 Incident Energy (eV)



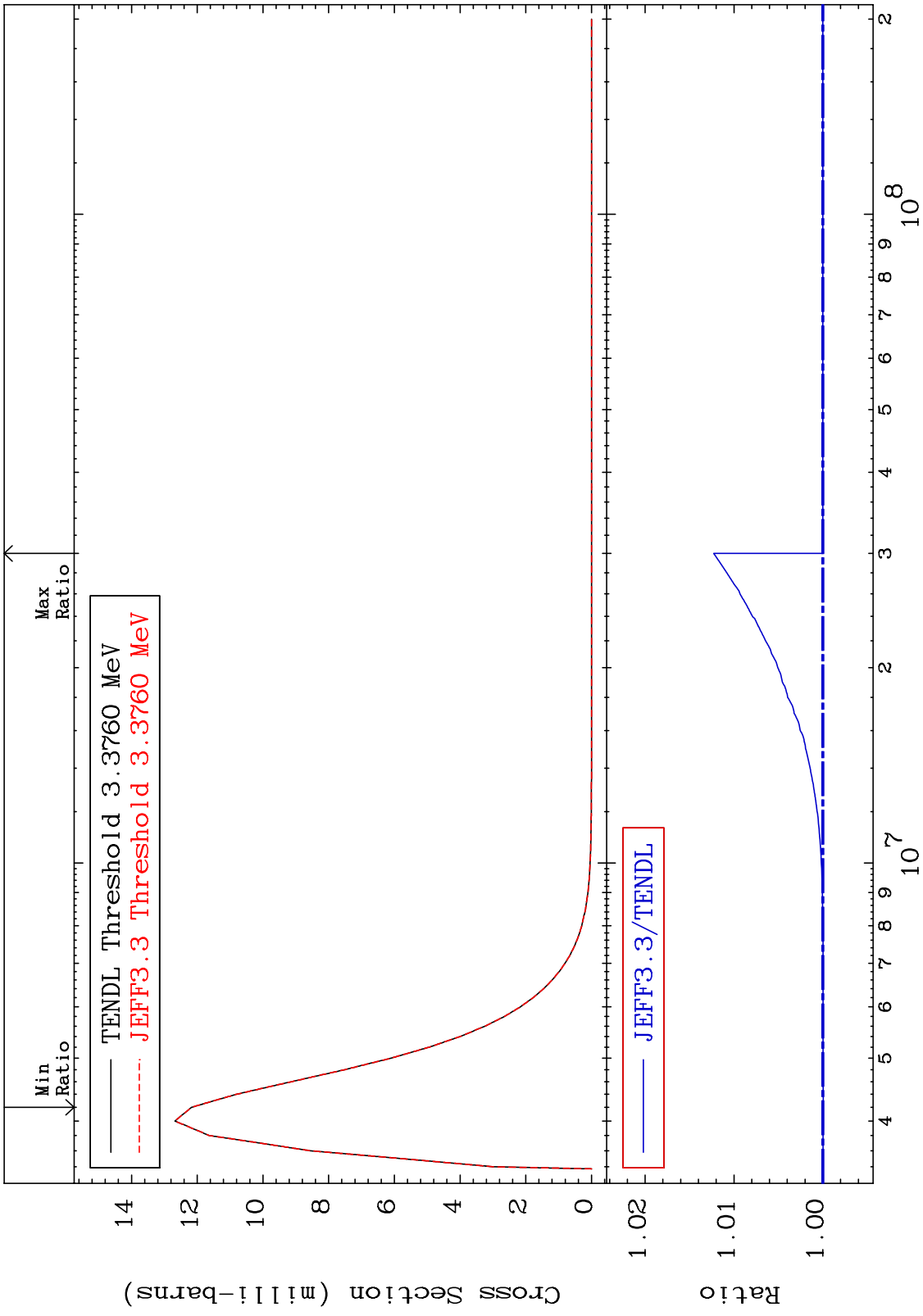
MAT 3043 MT= 68 (n,n') Level Cross Section -0.004 To 1.228 % 30-Zn-70



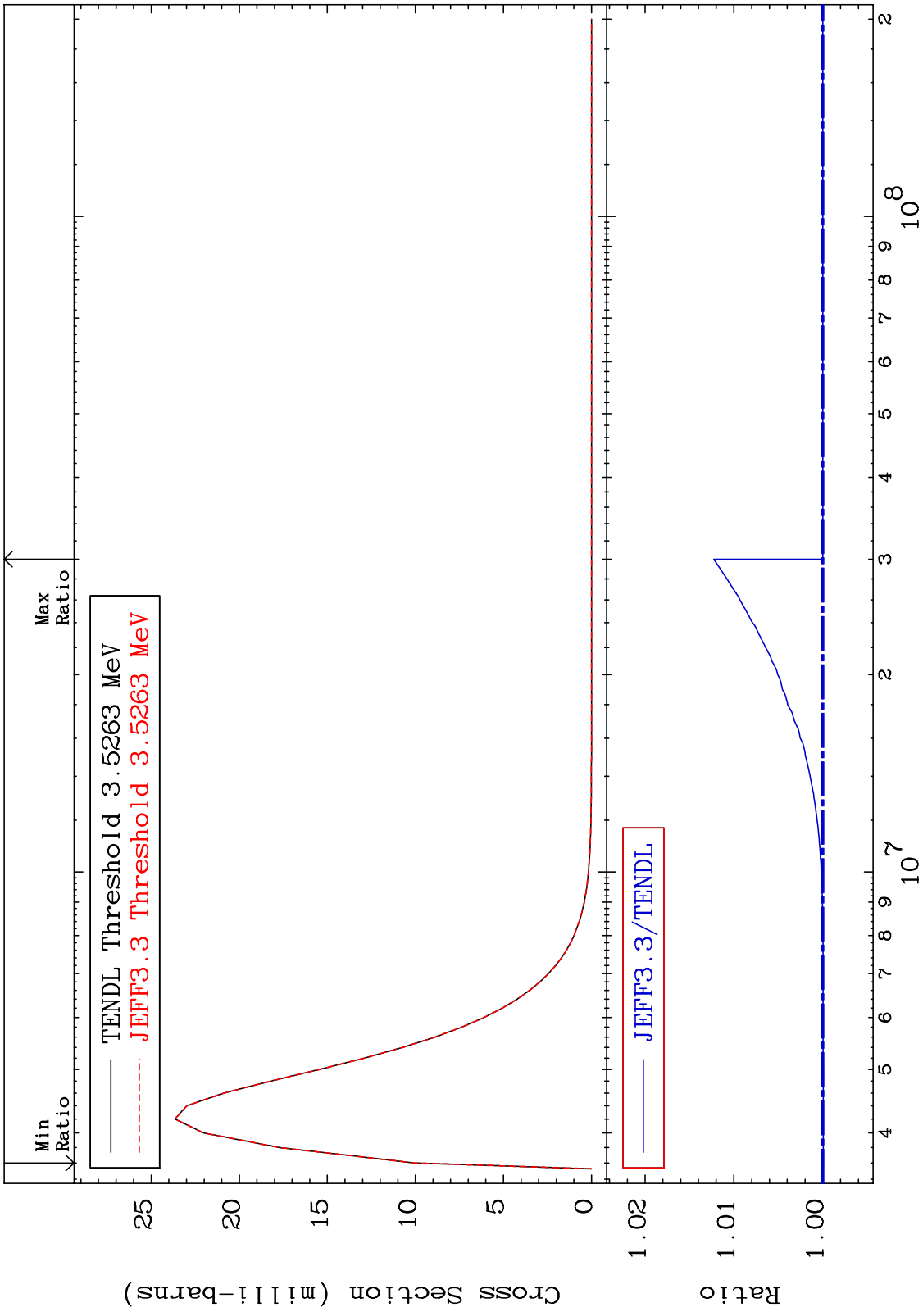
MAT 3043 MT= 70 (n,n') Level Cross Section -0.005 To 1.229 % 30-Zn-70



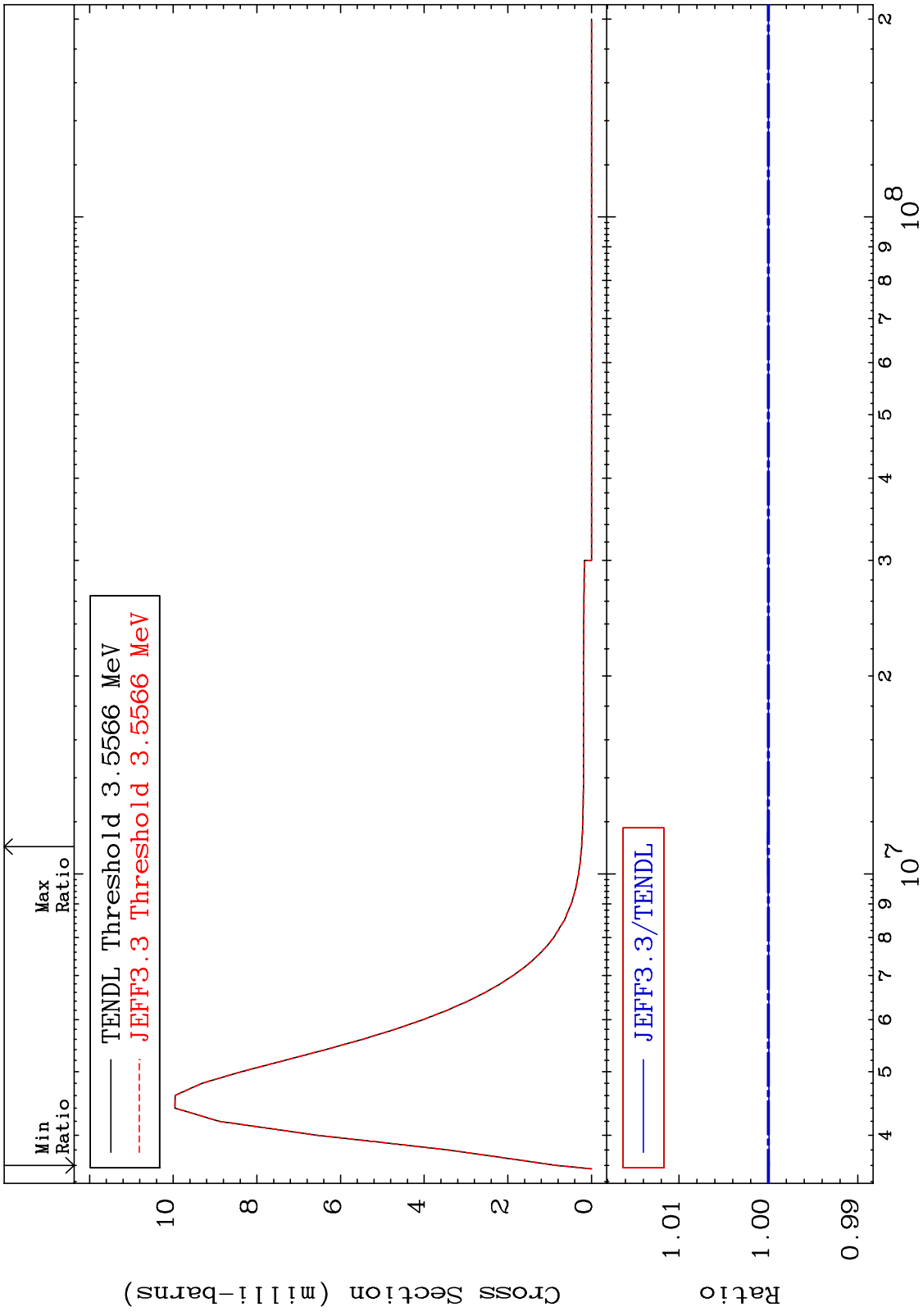
MAT 3043 MT= 71 (n,n') Level Cross Section -0.004 To 1.228 % 30-Zn-70



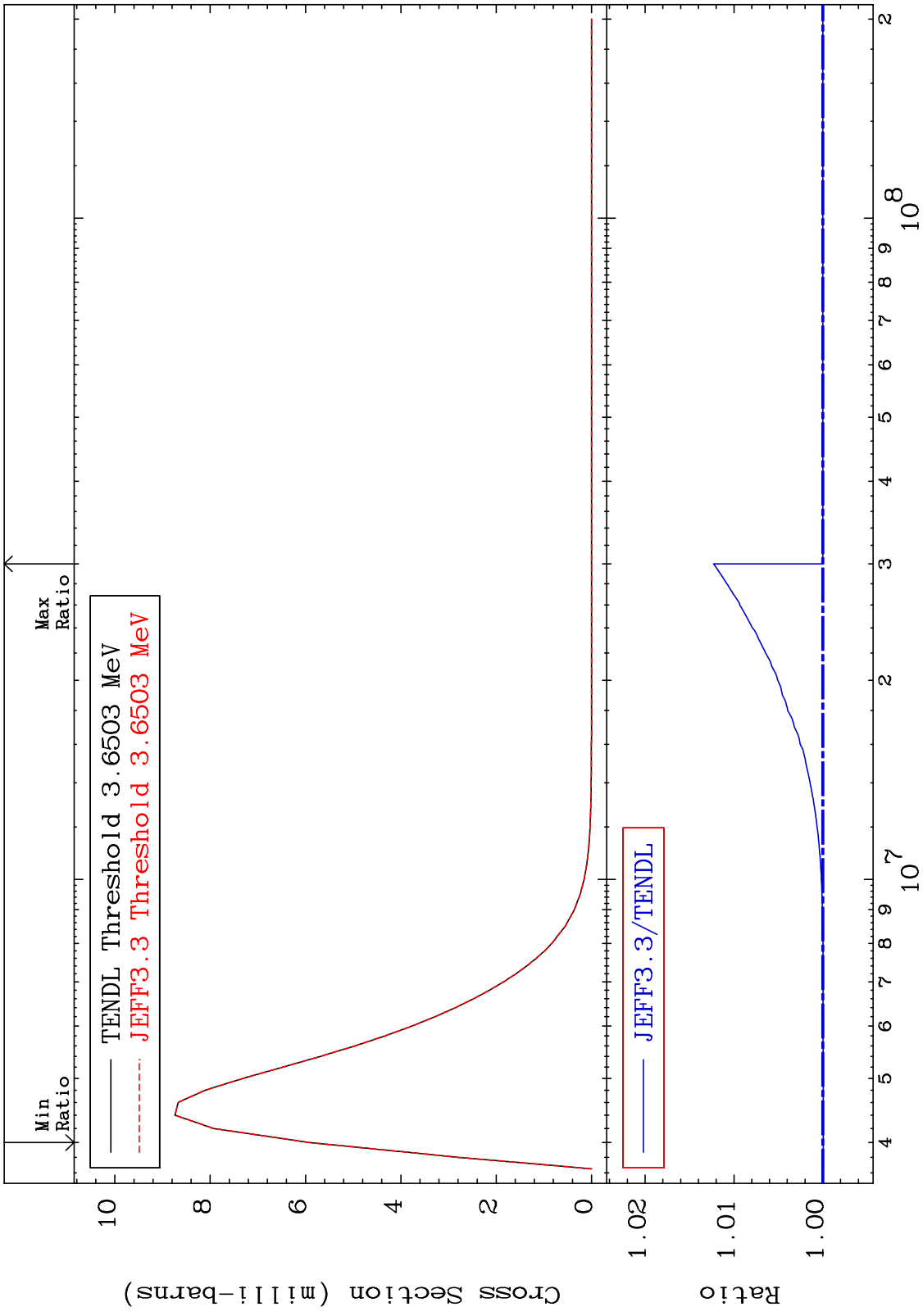
MAT 3043 MT= 75 (n,n') Level Cross Section 30-Zn-70  
 -0.005 To 1.229 %



MAT 3043 MT= 76 (n,n') Level Cross Section 30-Zn-70  
 -0.010 To 0.010 %



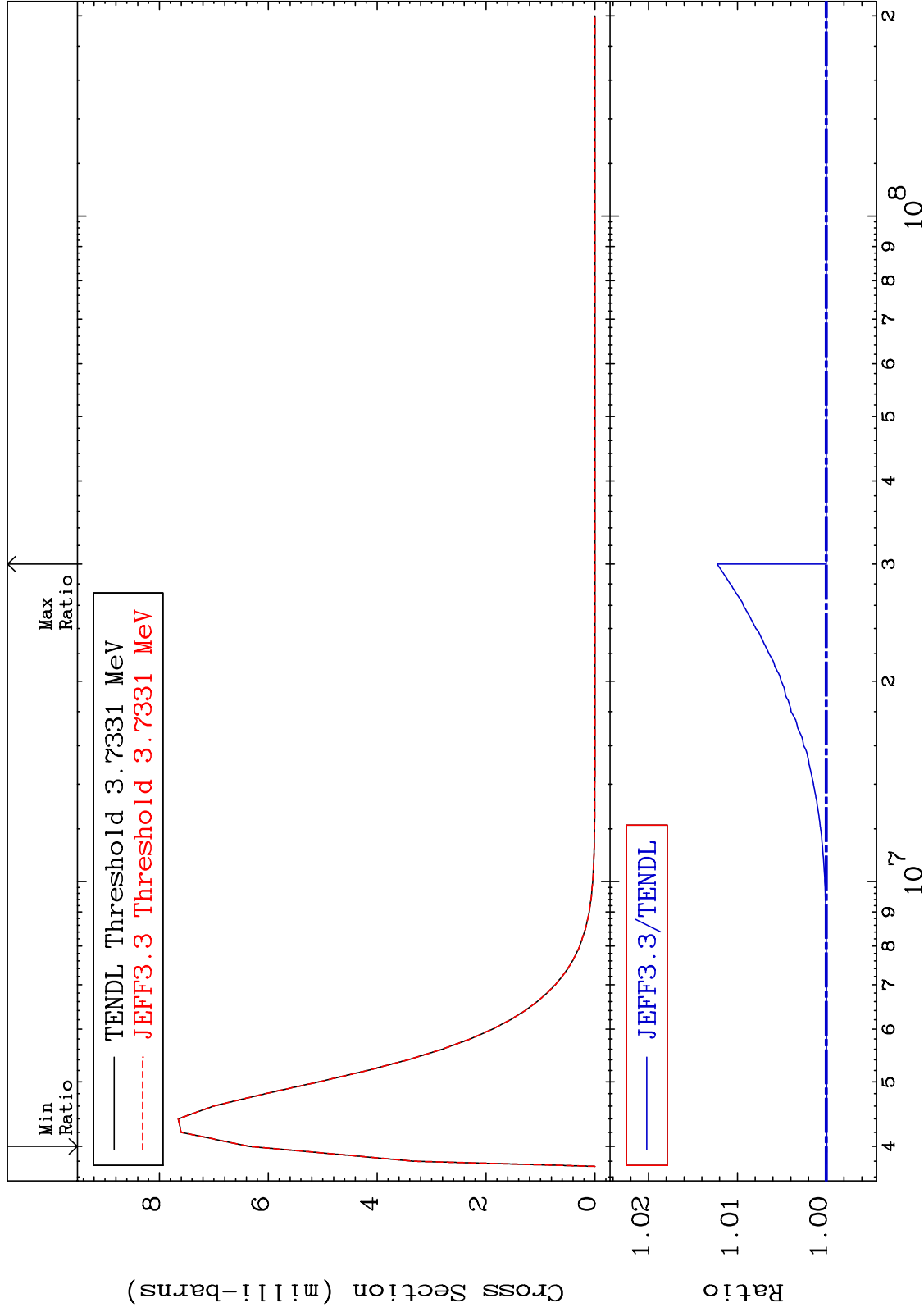
MAT 3043 MT= 77 (n,n') Level Cross Section -0.005 To 1.229 % 30-Zn-70



MAT 3043

MT= 79 (n,n') Level  
Cross Section

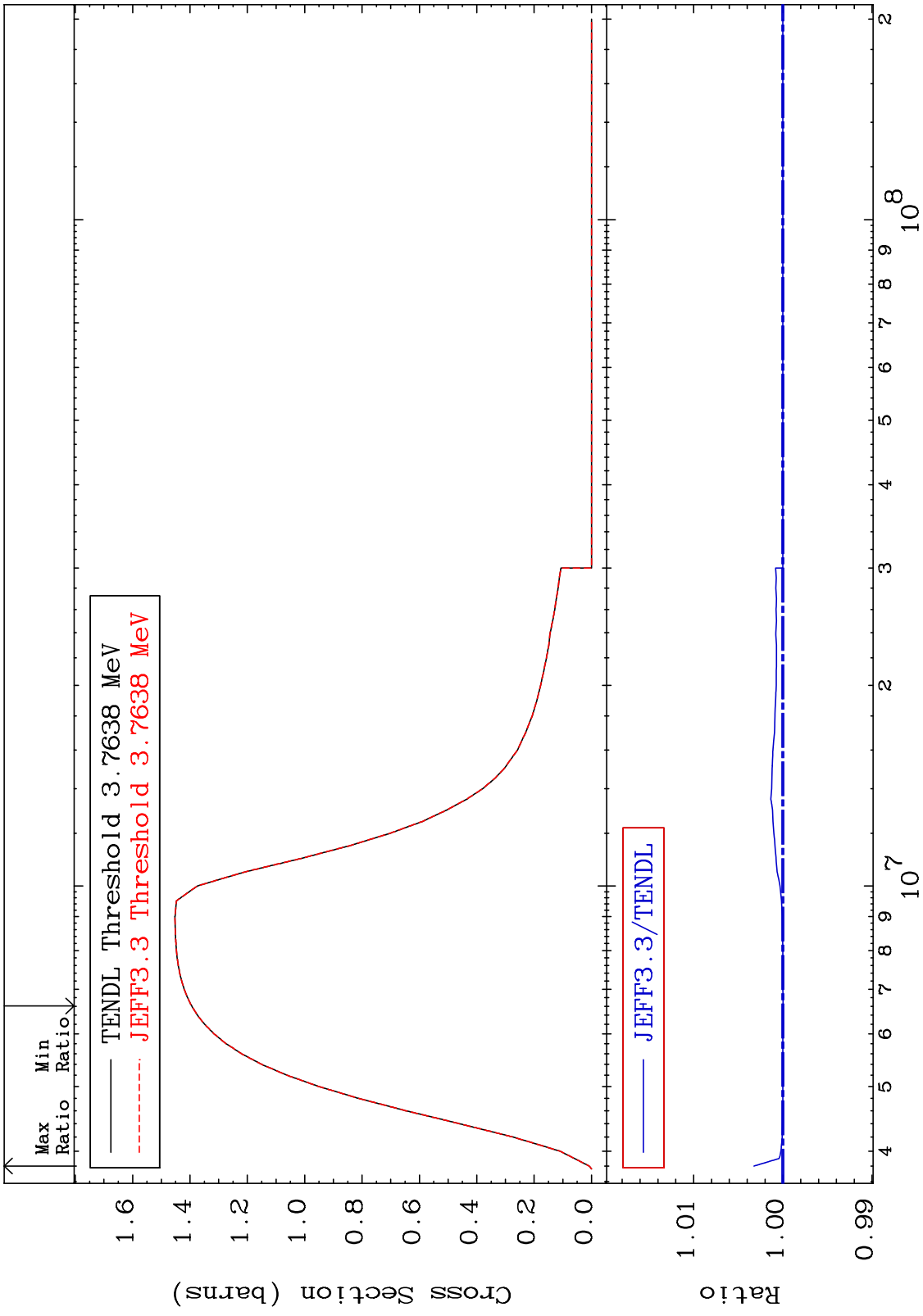
30-Zn-70  
-0.004 To 1.228 %



30

Incident Energy (eV)

30-Zn-70





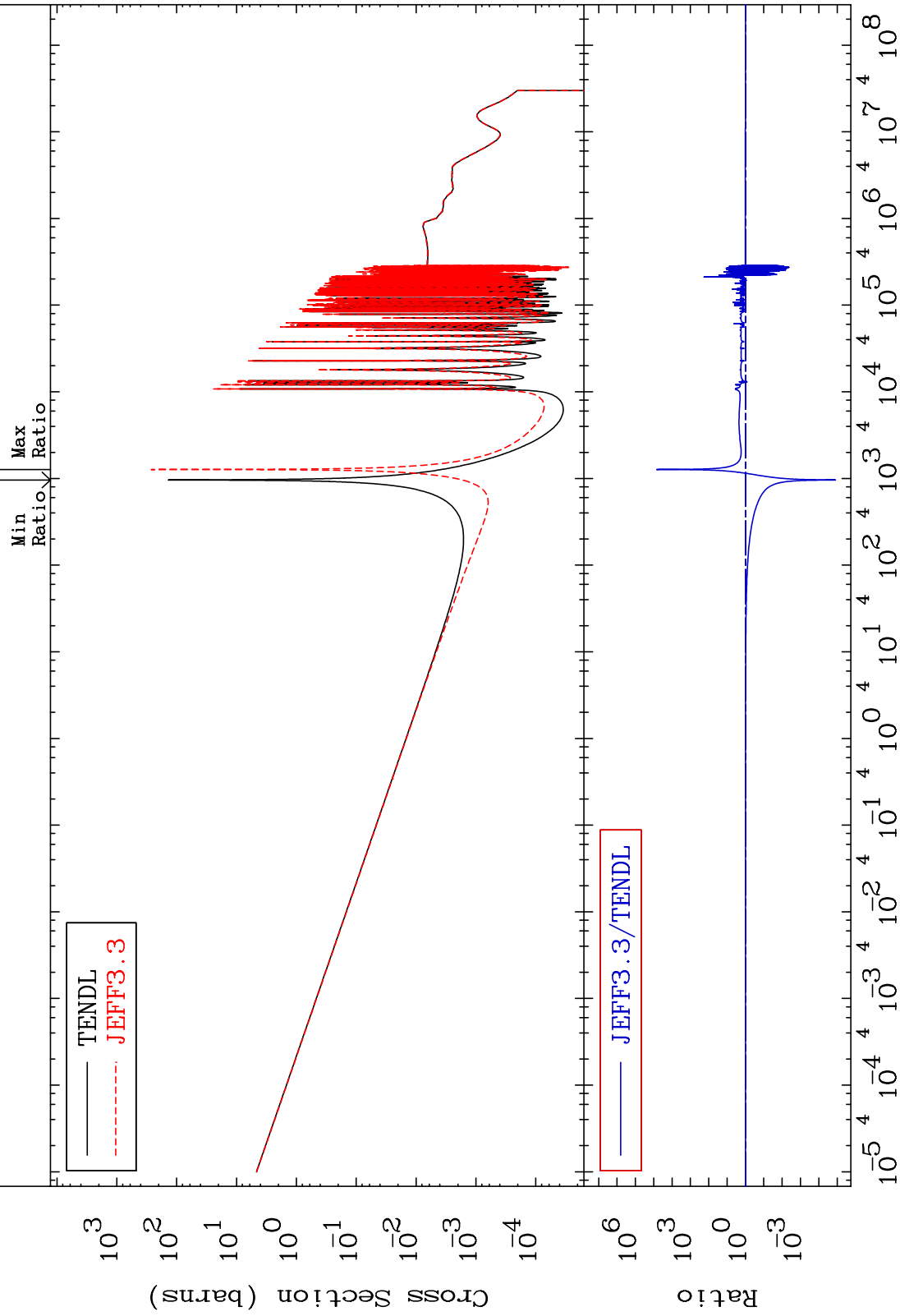
MAT 3043

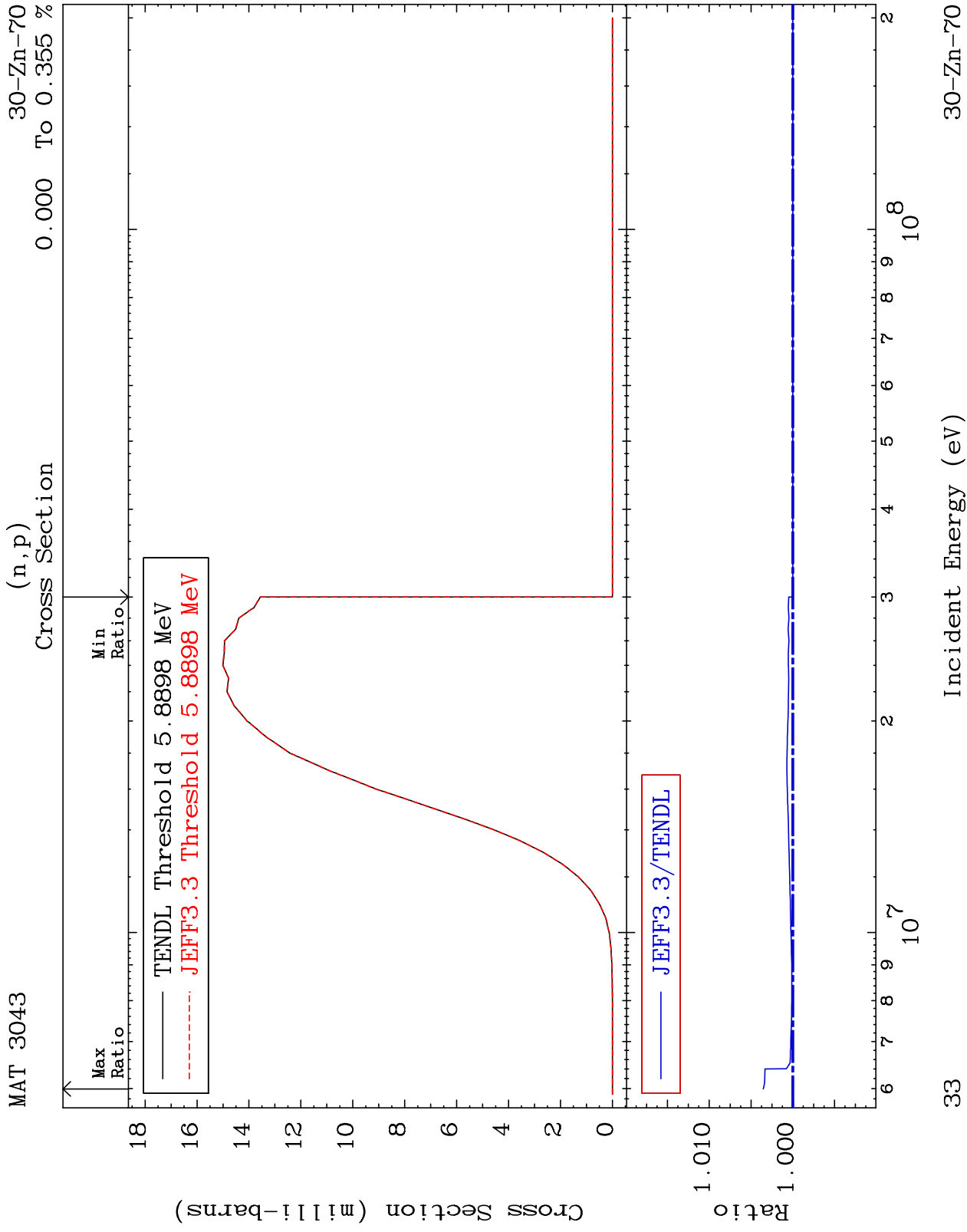
(n,  $\gamma$ )

30-Zn-70

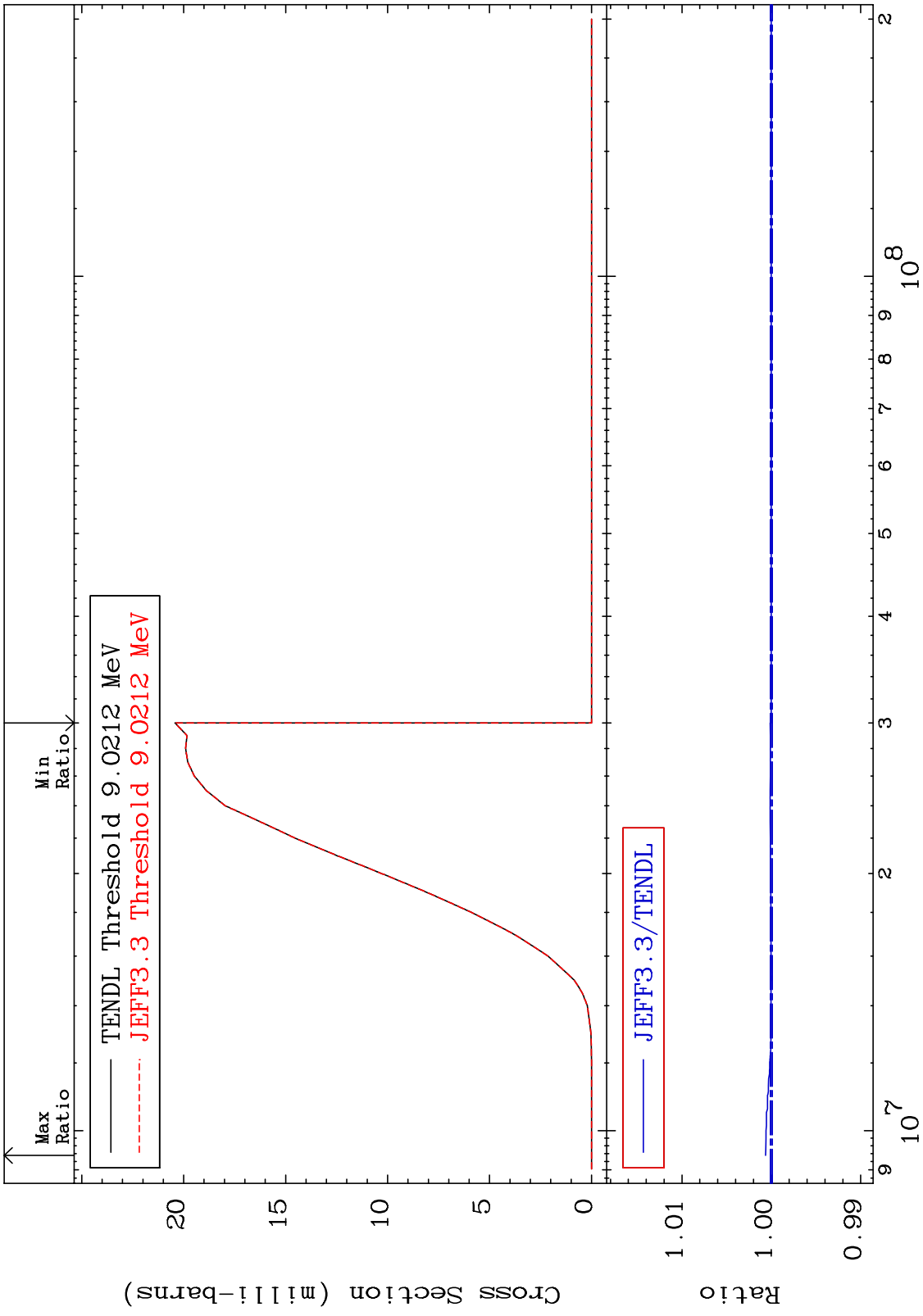
-100.0 To 9999. %

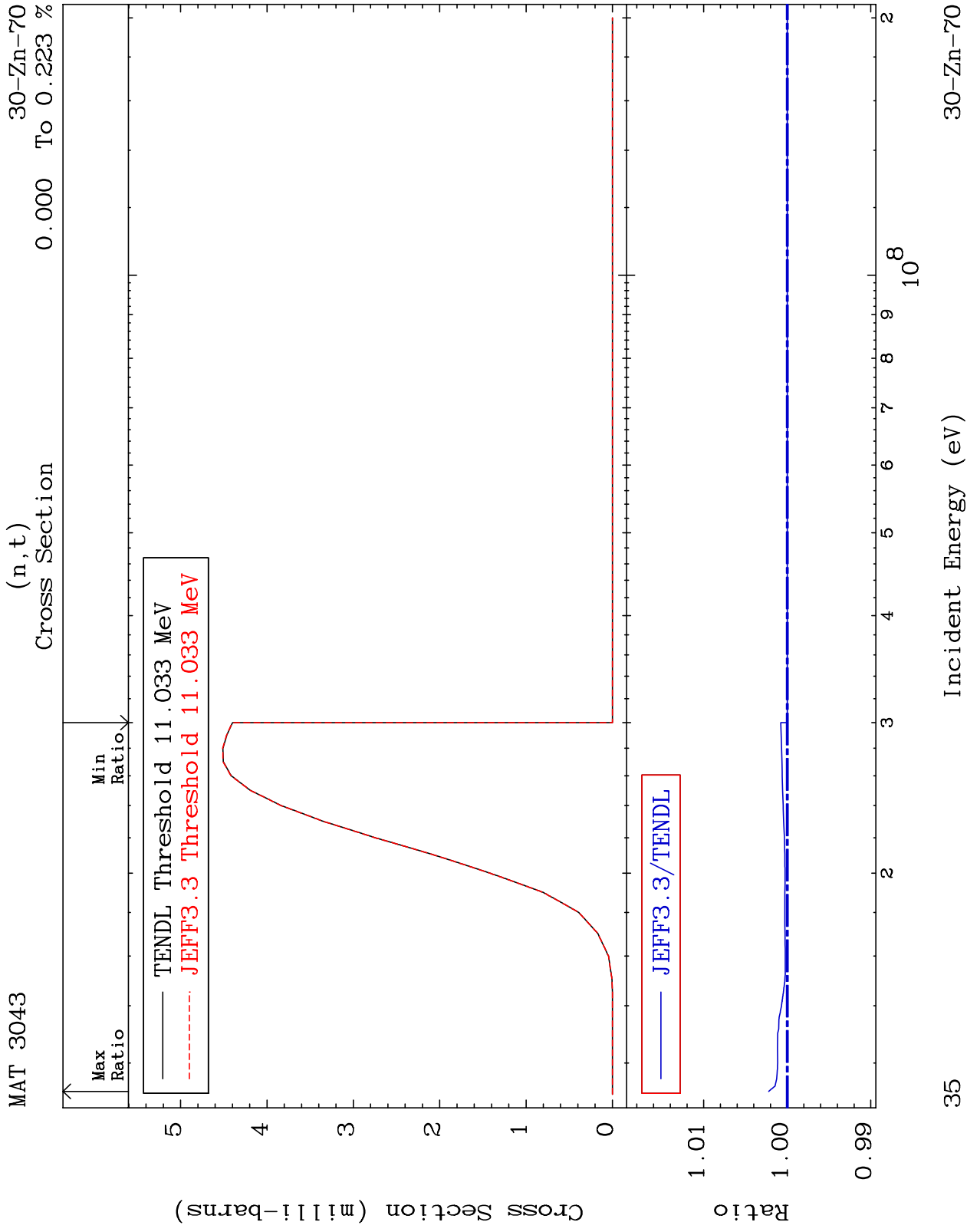
Cross Section



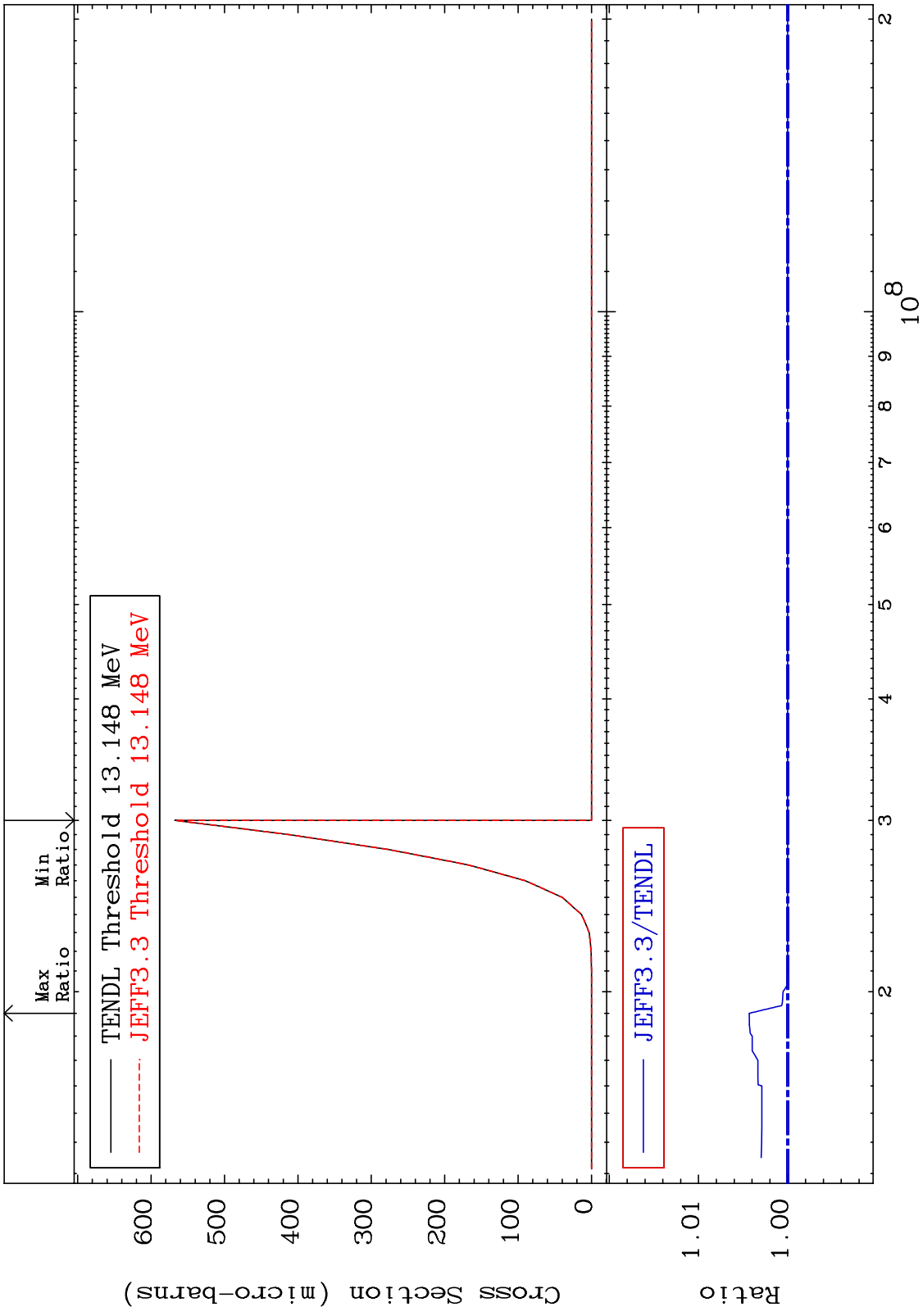


MAT 3043 (n,d) Cross Section 30-Zn-70 To 0.065 %

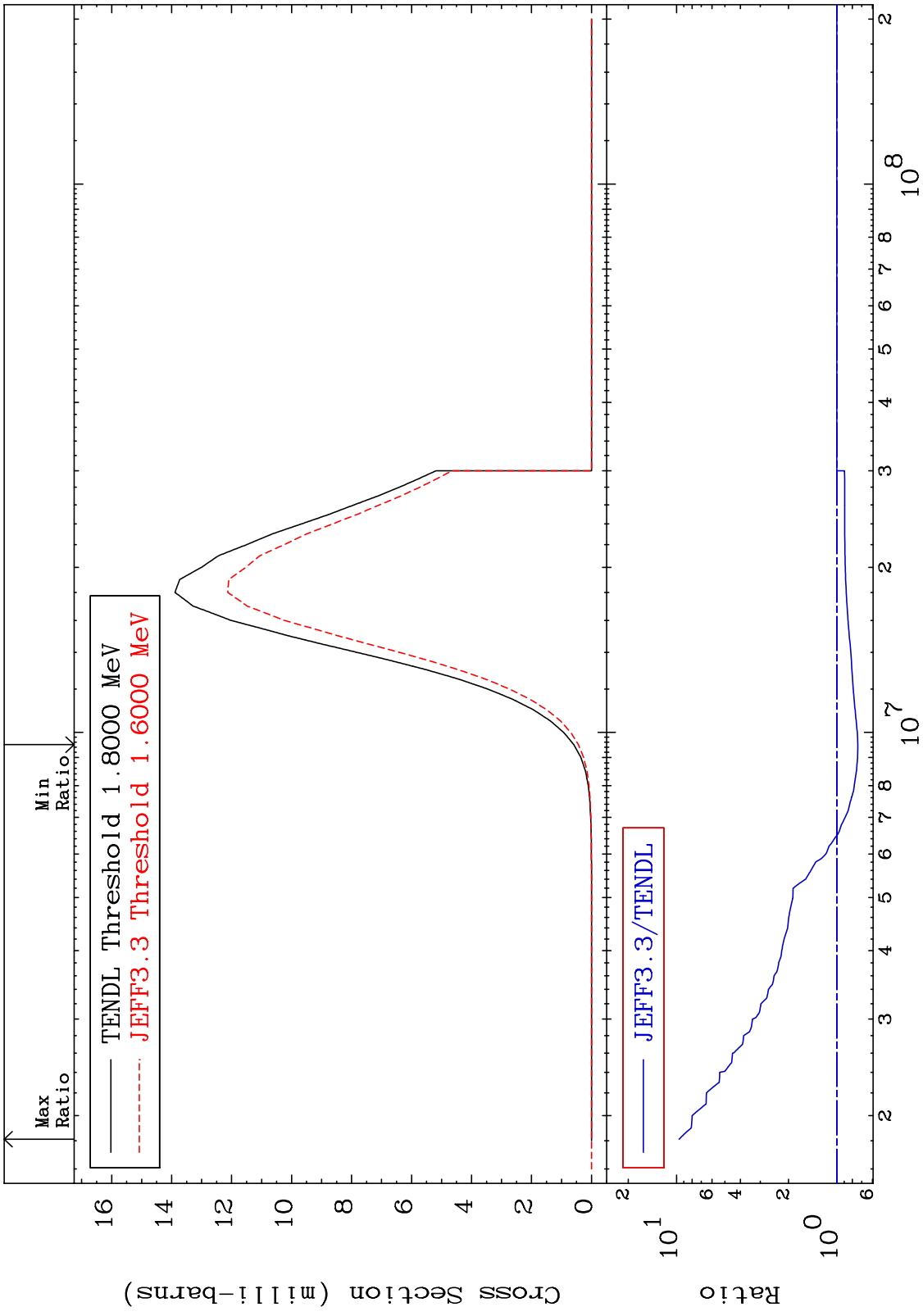


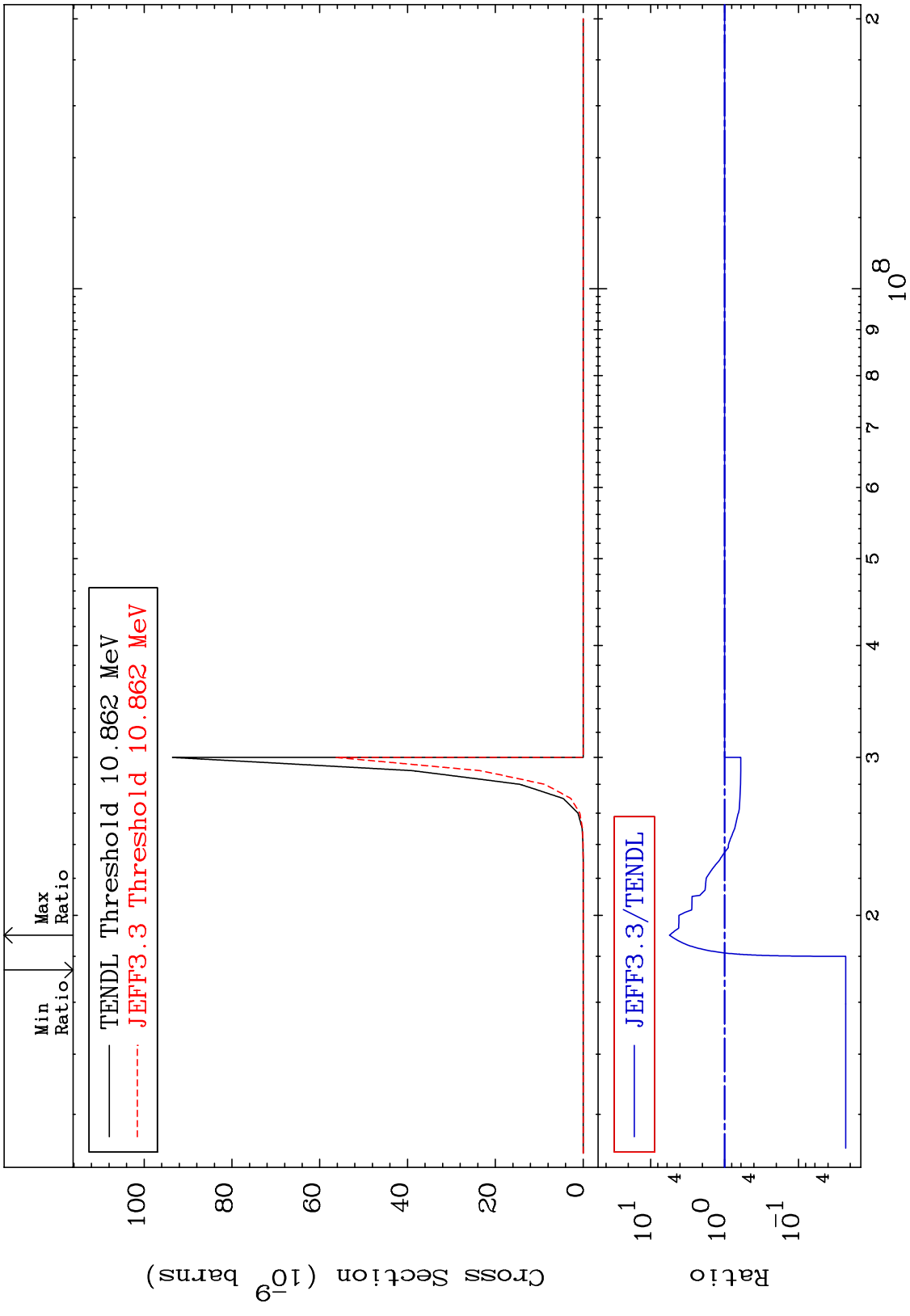


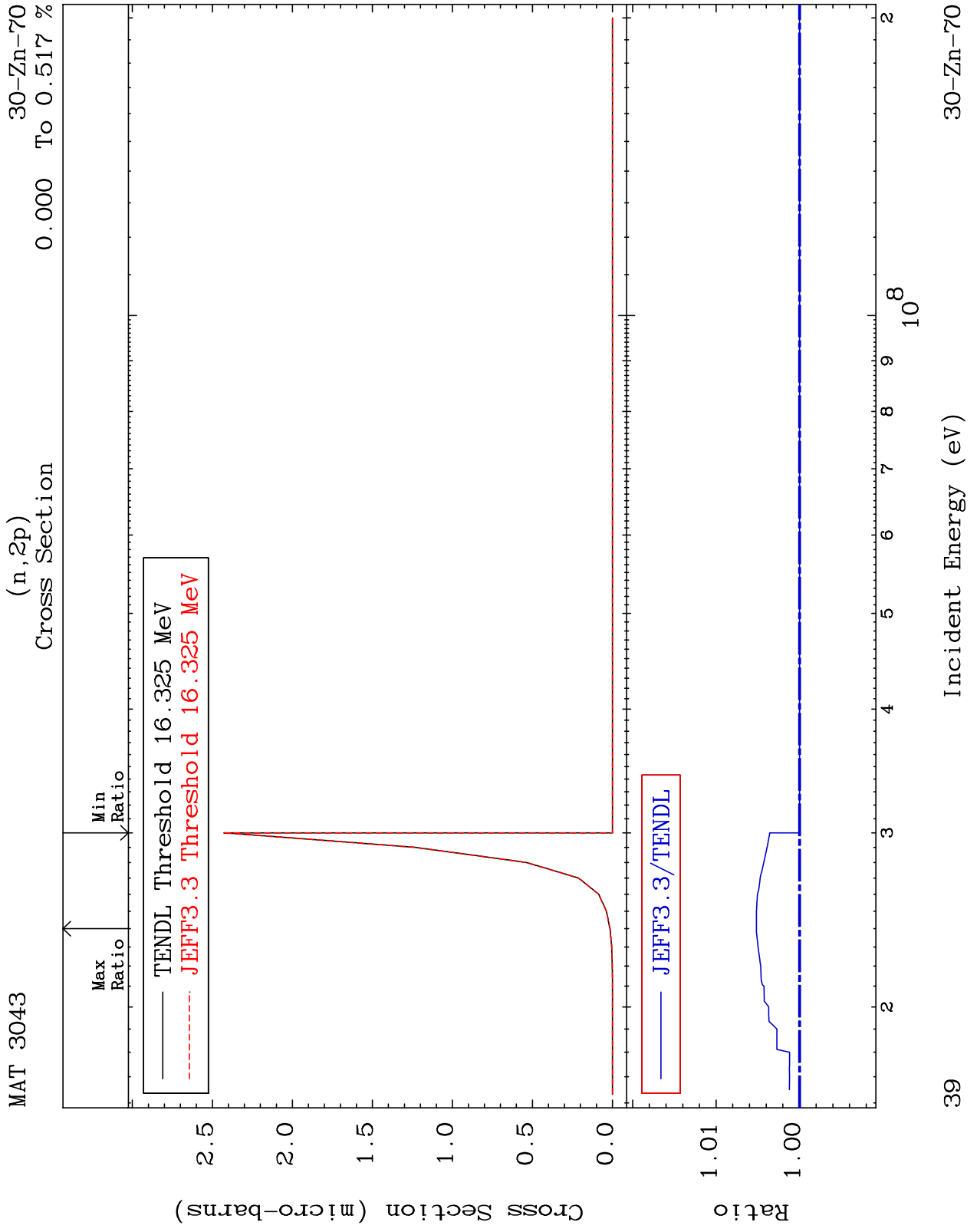
MAT 3043 (n, He-3) 30-Zn-70  
 Cross Section 0.000 To 0.432 %



MAT 3043  $^{30}\text{Zn-70}$   $(n, \alpha)$  Cross Section -26.04 To 864.4 %

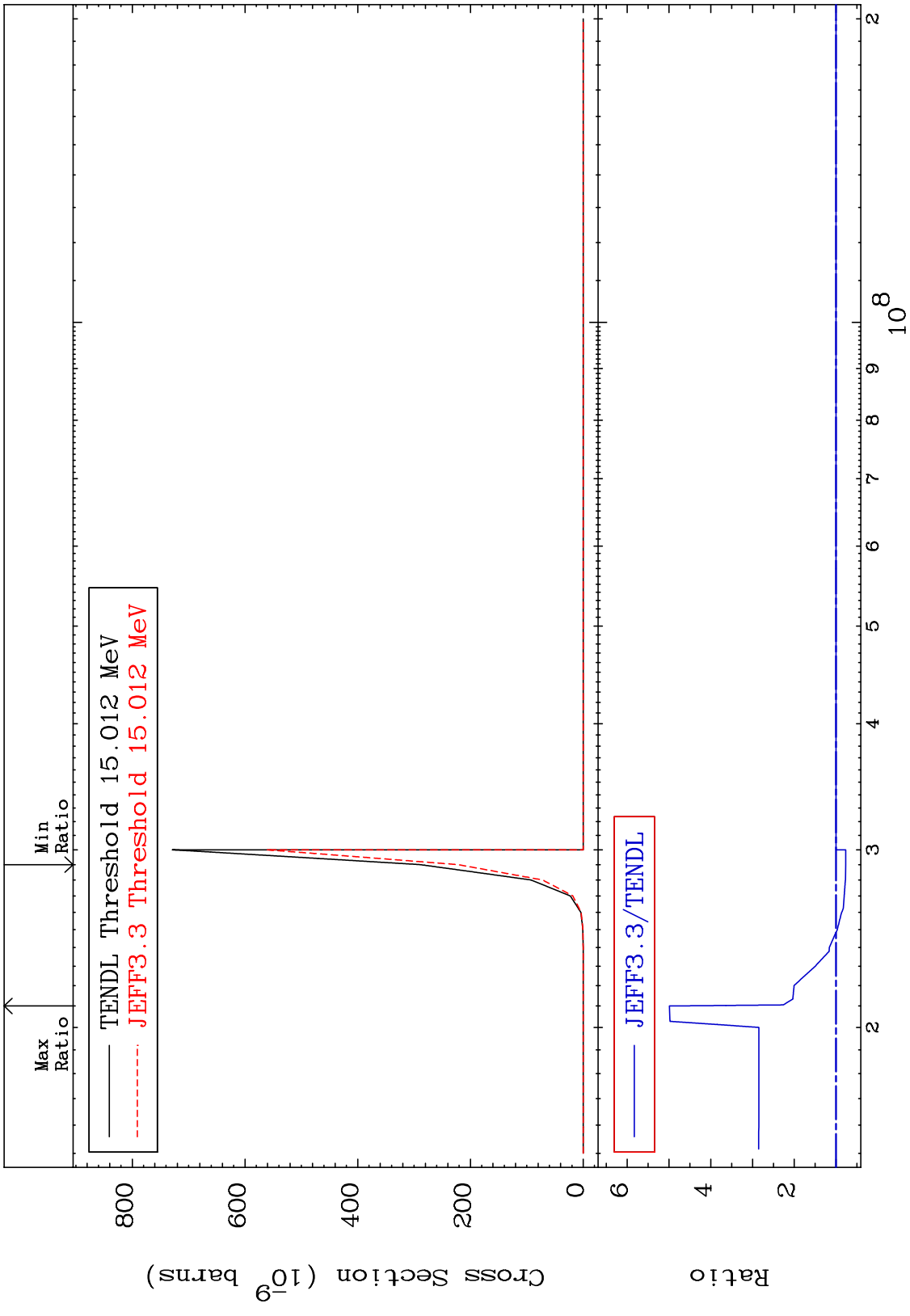






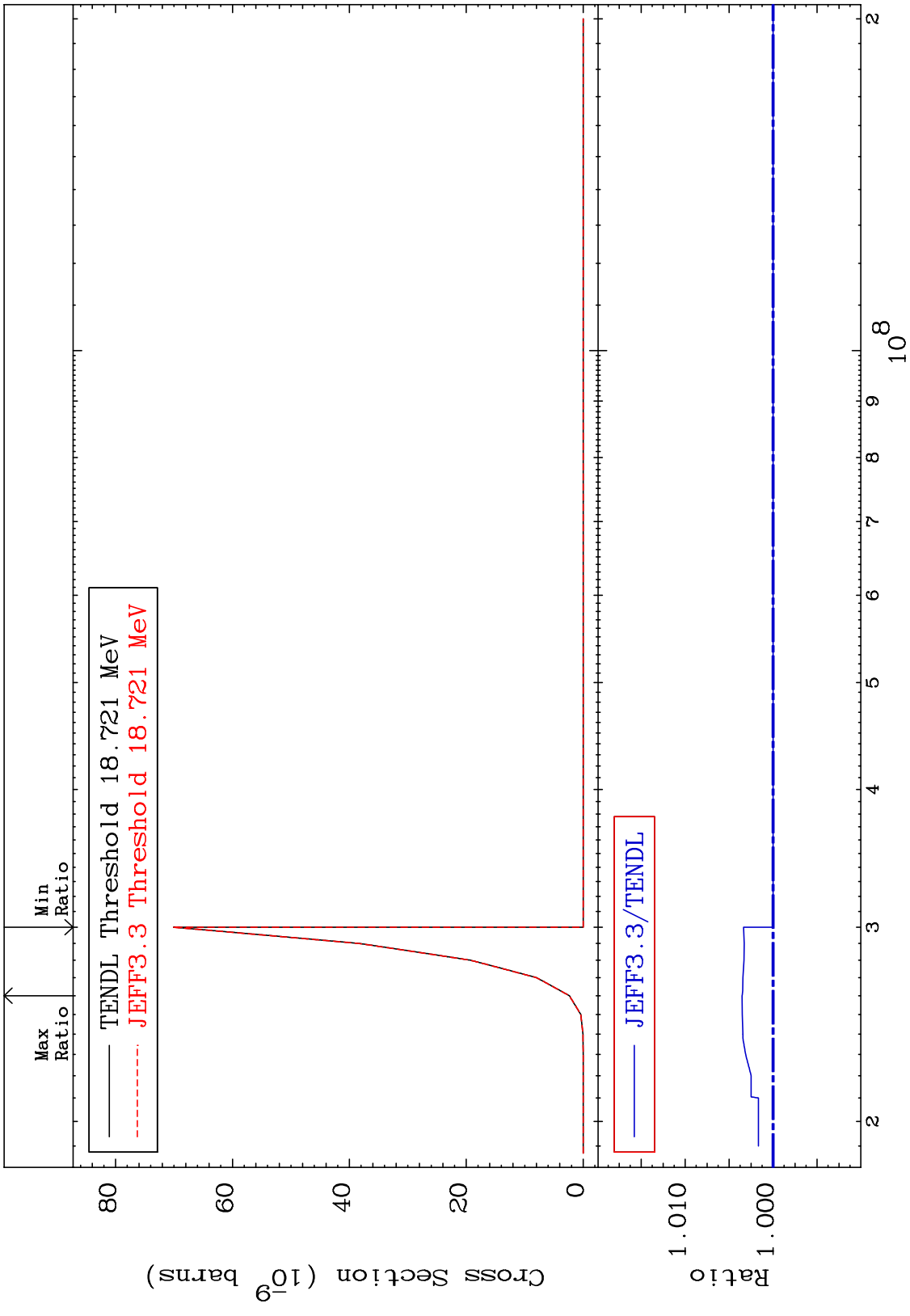


MAT 3043 (n,p)  $\alpha$  30-Zn-70  
 Cross Section -23.14 To 398.7 %

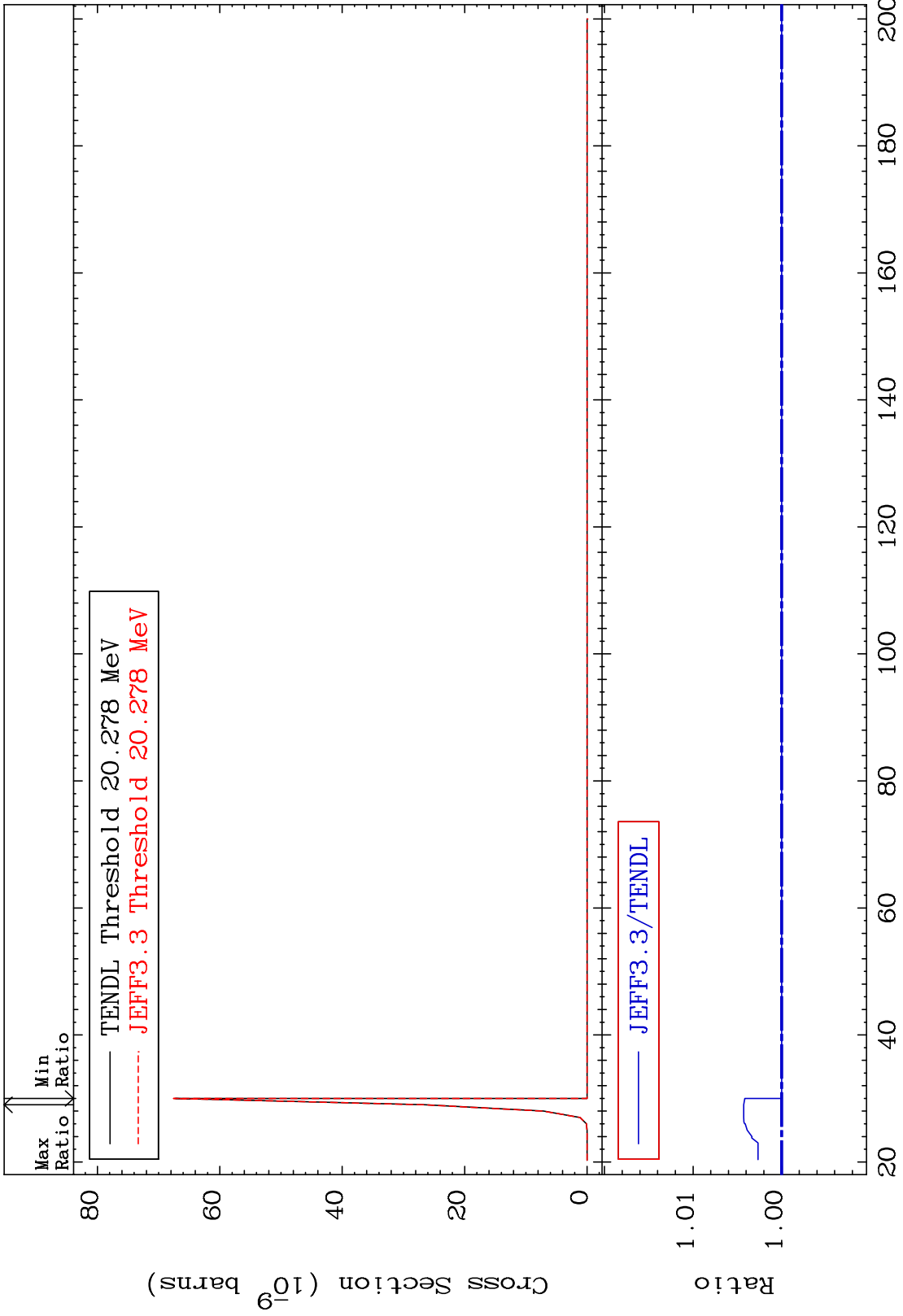


40 30-Zn-70

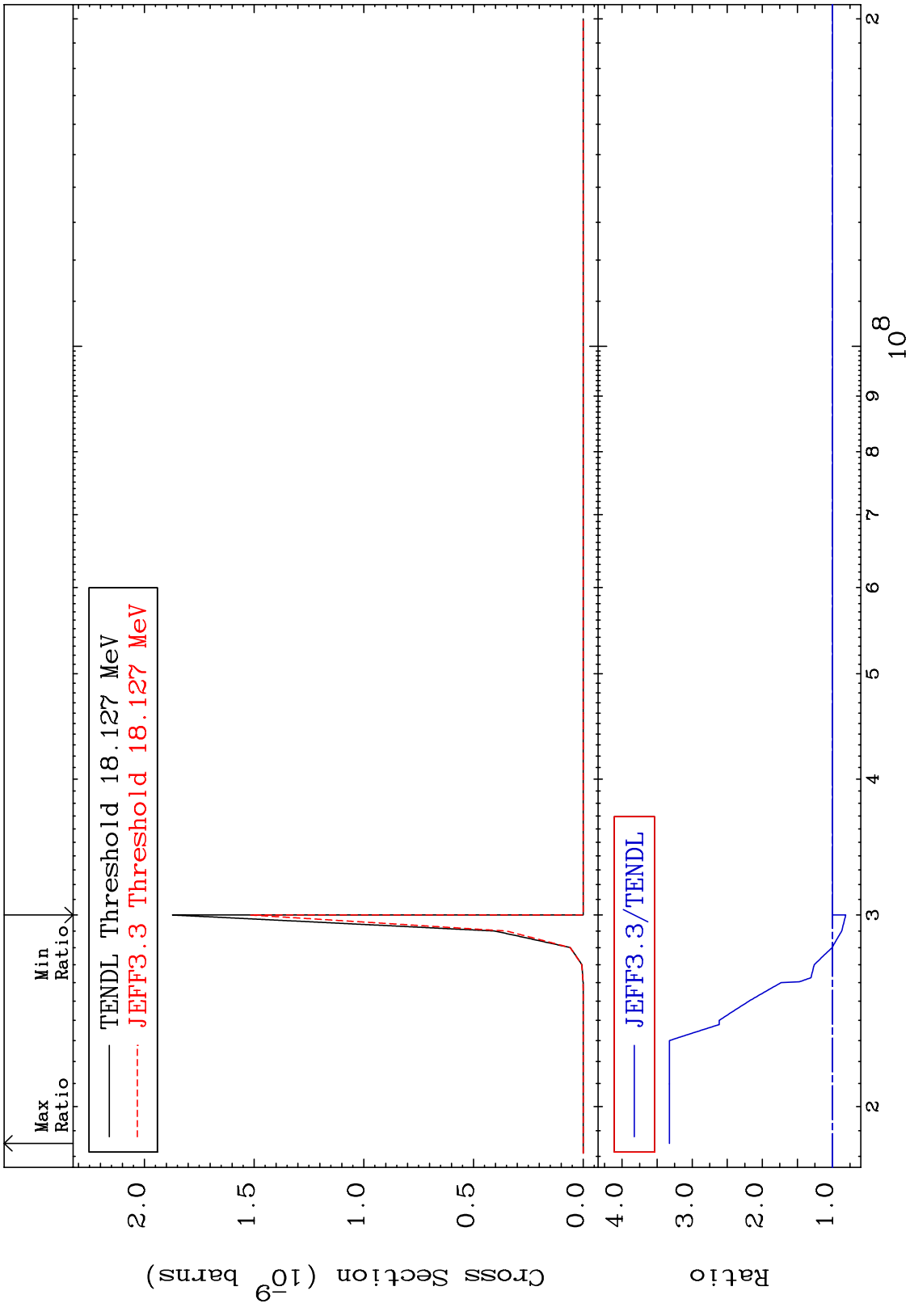
MAT 3043 (n,p) d 30-Zn-70  
 Cross Section 0.000 To 0.352 %

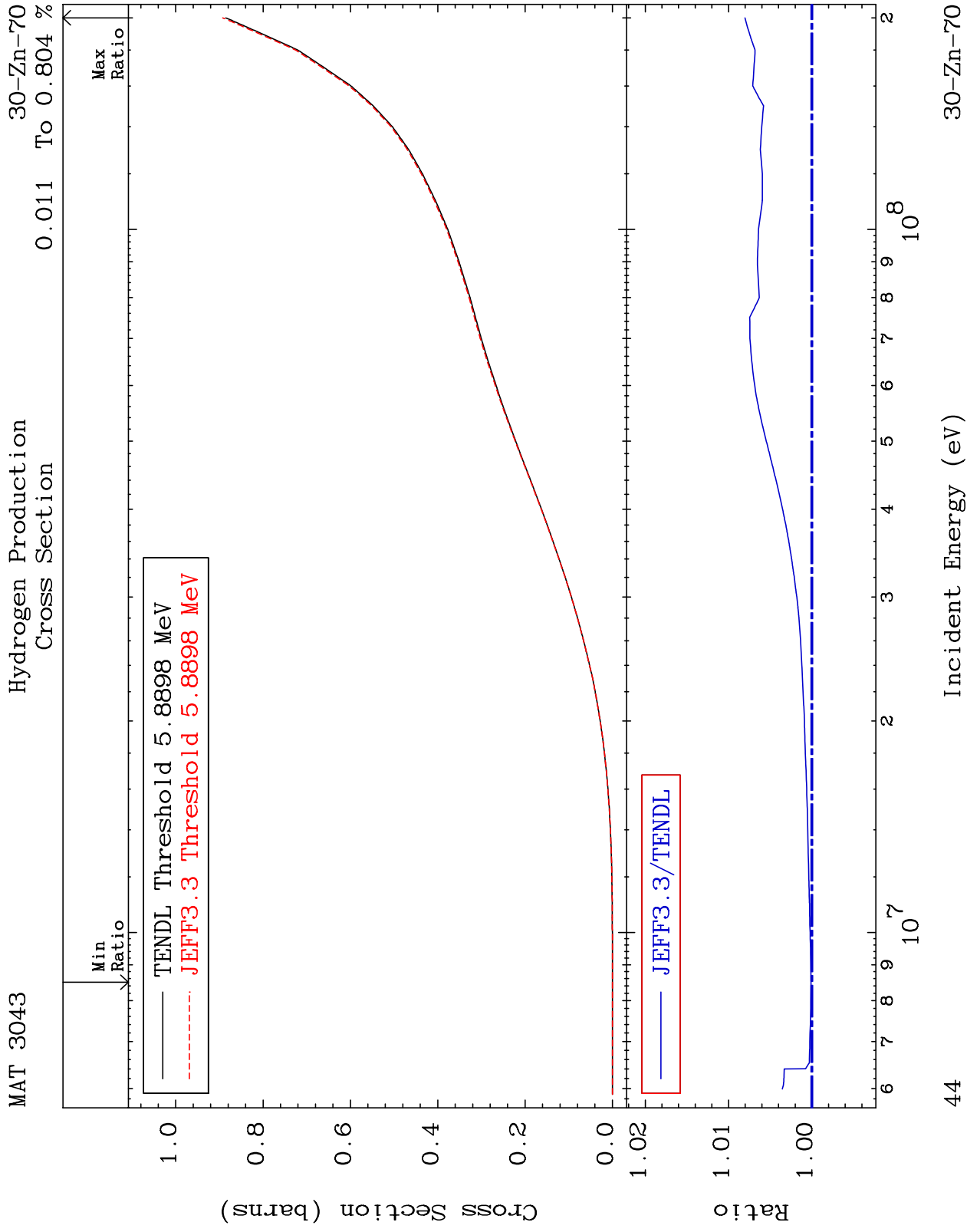


MAT 3043 (n,p) t 30-Zn-70  
Cross Section To 0.428 %



MAT 3043  $(n,d) \alpha$  30-Zn-70  
 Cross Section -18.96 To 232.4 %

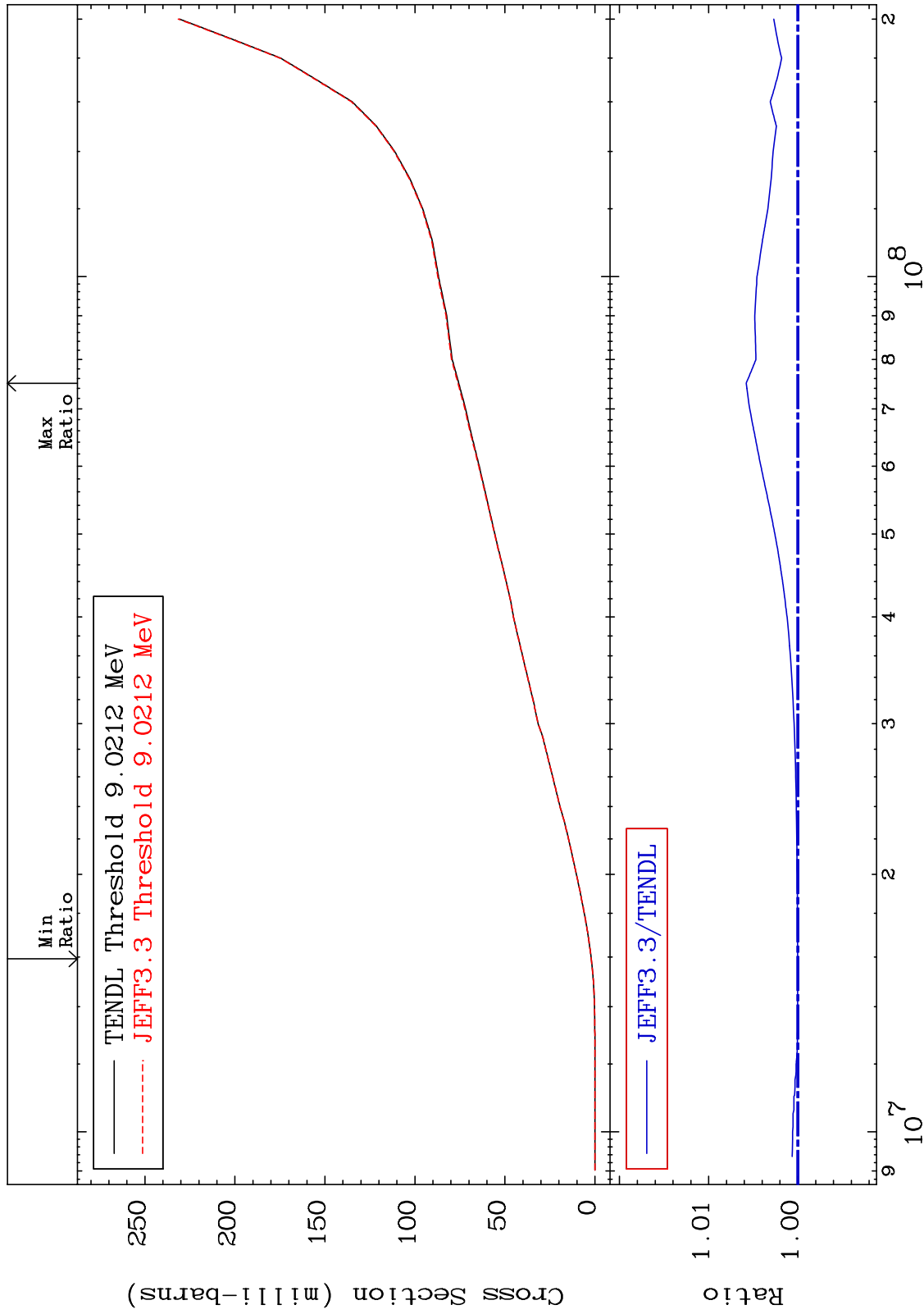




MAT 3043

Deuterium Production  
Cross Section

30-Zn-70  
To 0.580 %



45

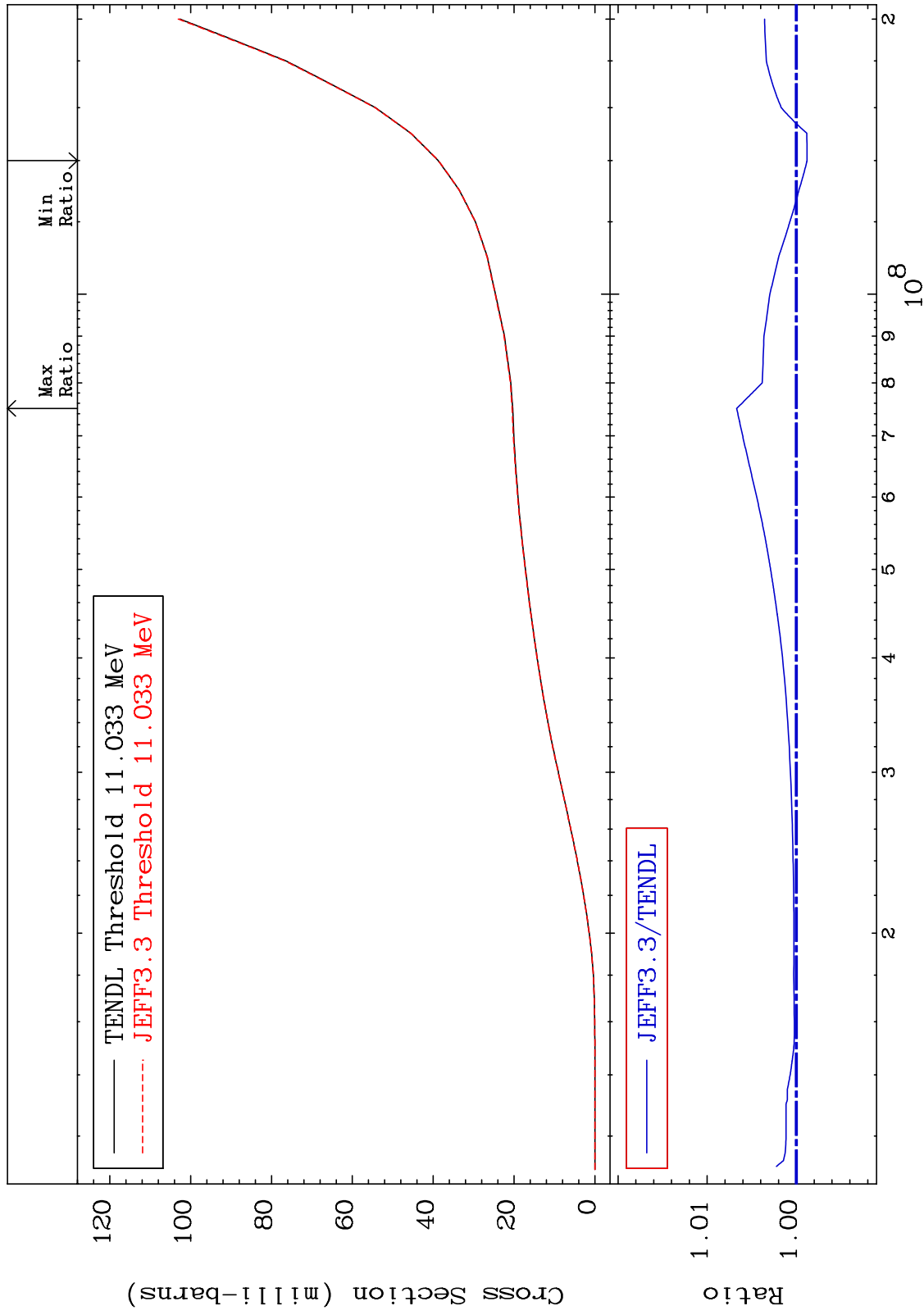
Incident Energy (eV)

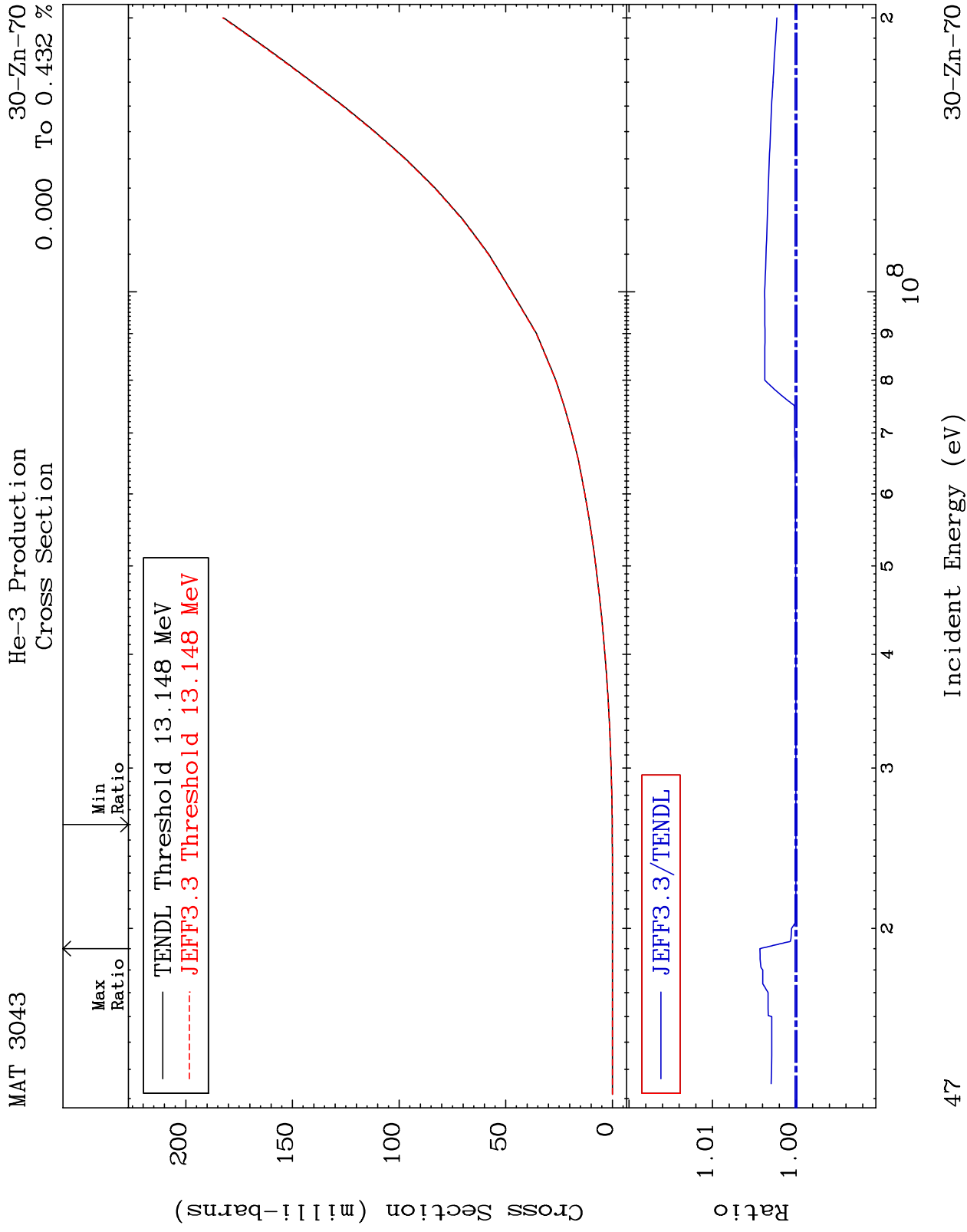
30-Zn-70

MAT 3043

Tritium Production  
Cross Section

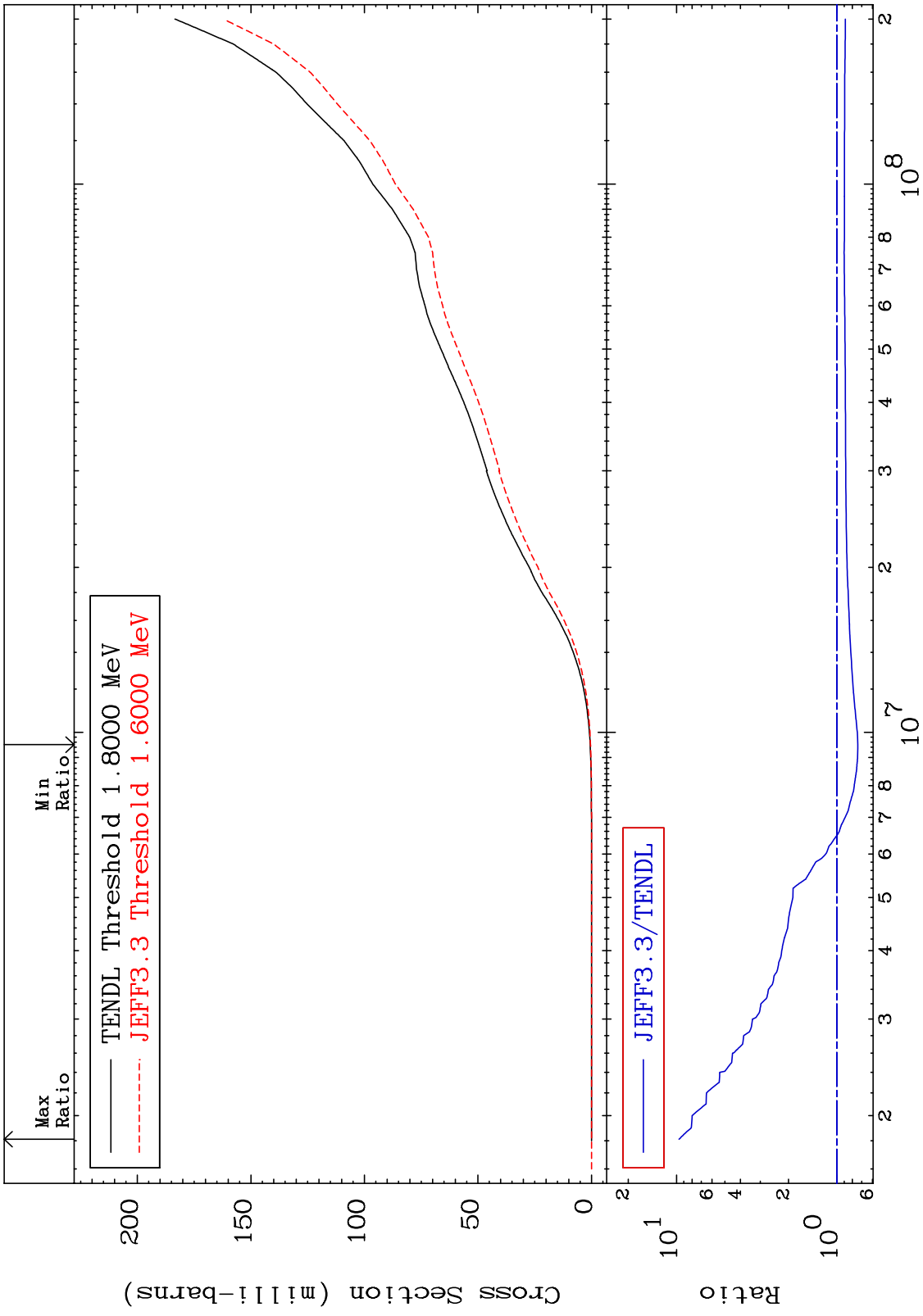
30-Zn-70  
-0.120 To 0.669 %







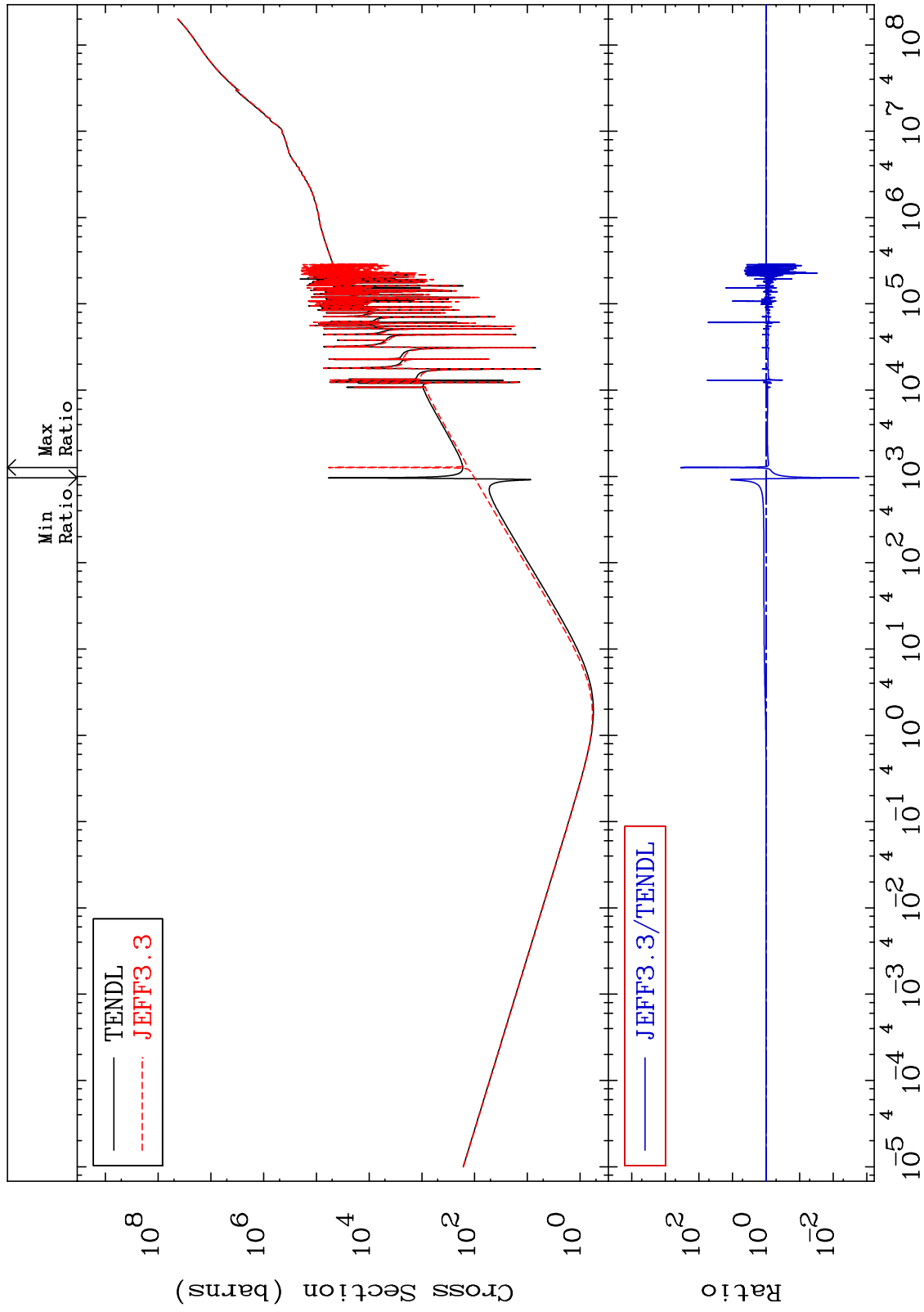
MAT 3043 He-4 Production Cross Section 30-Zn-70  
 -26.04 To 864.4 %



MAT 3043

Kerma total (eV-barns)  
Cross Section

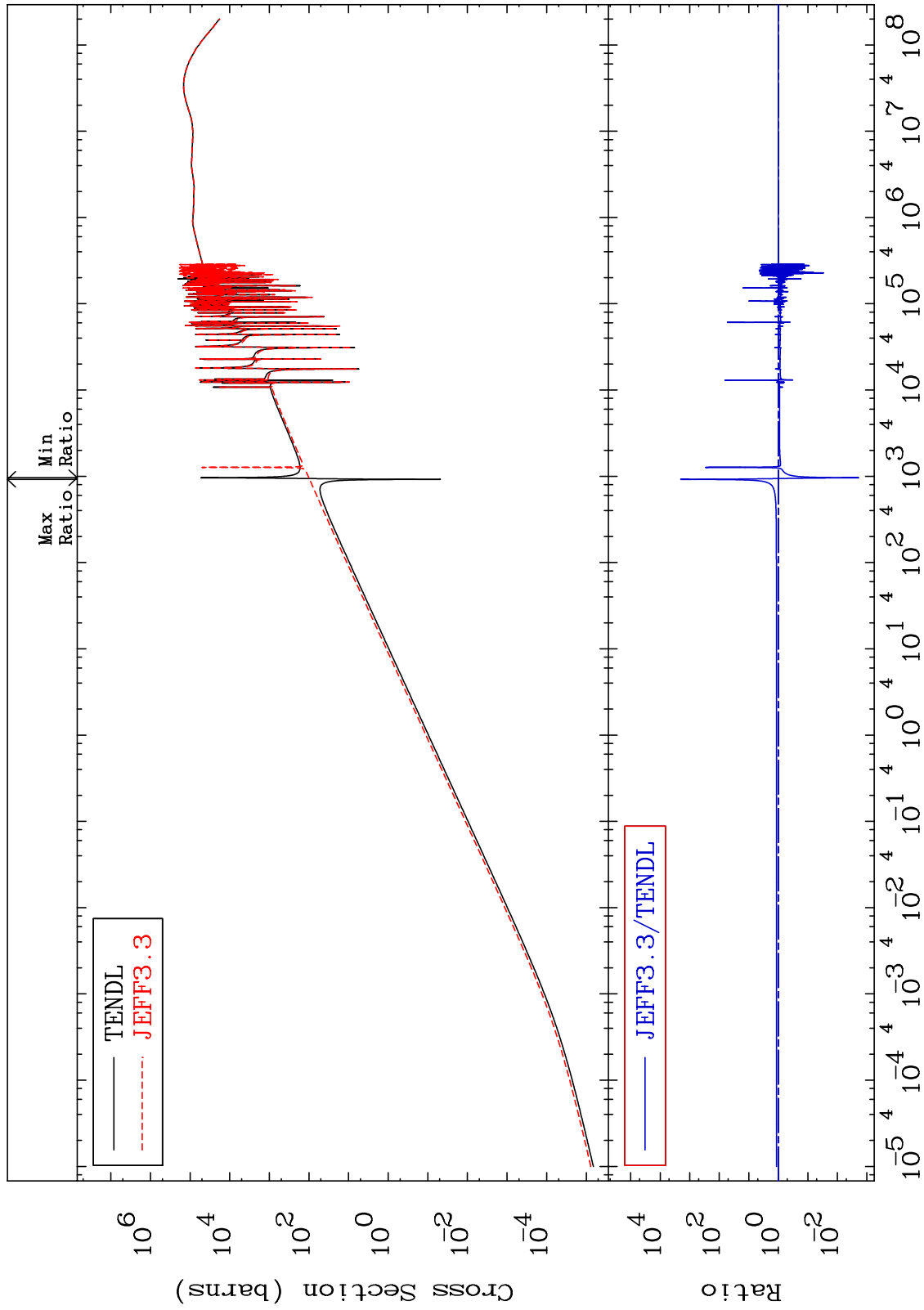
30-Zn-70  
-99.83 To 9999. %



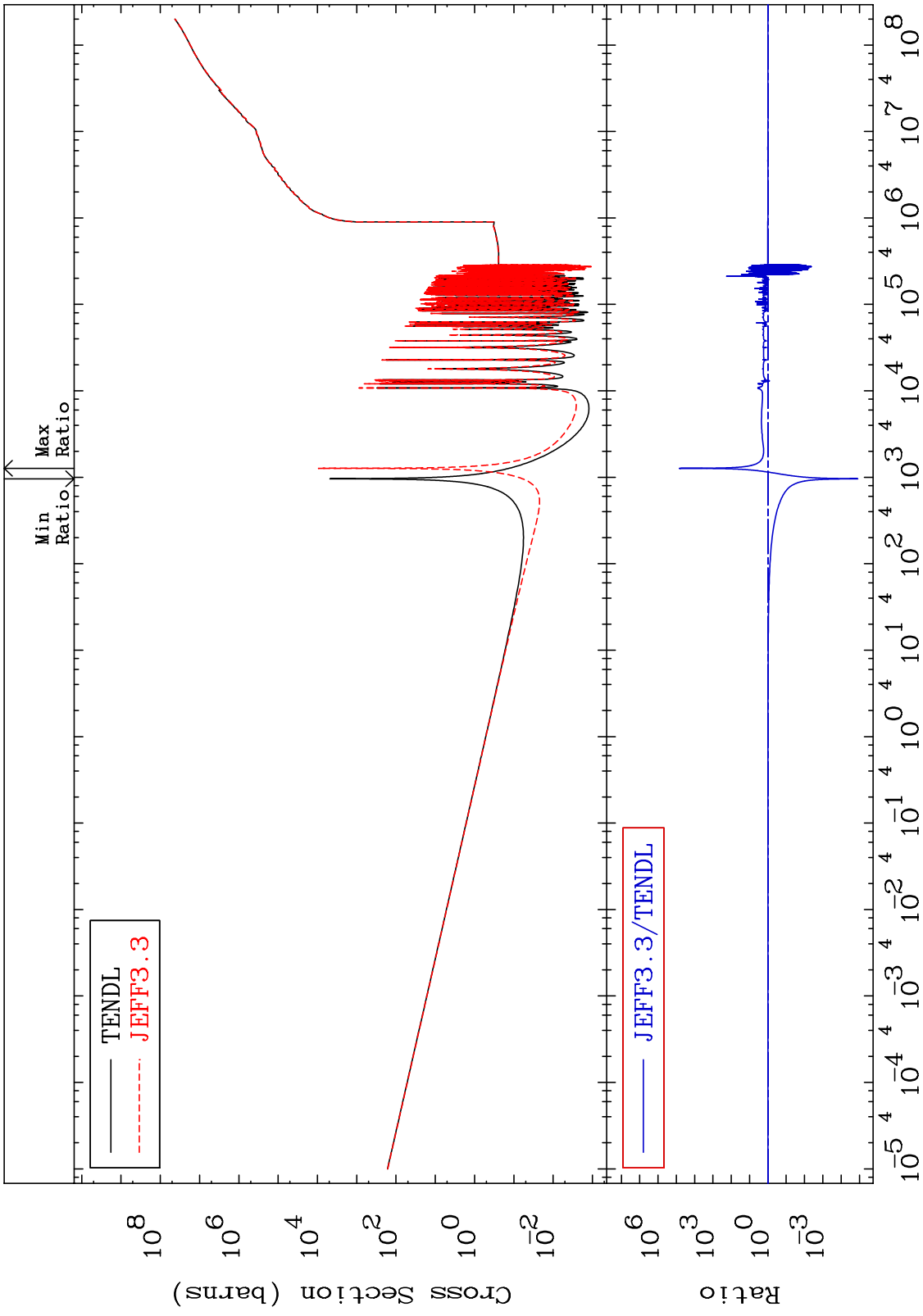
MAT 3043

Kerma elastic  
Cross Section

30-Zn-70  
-99.81 To 9999. %



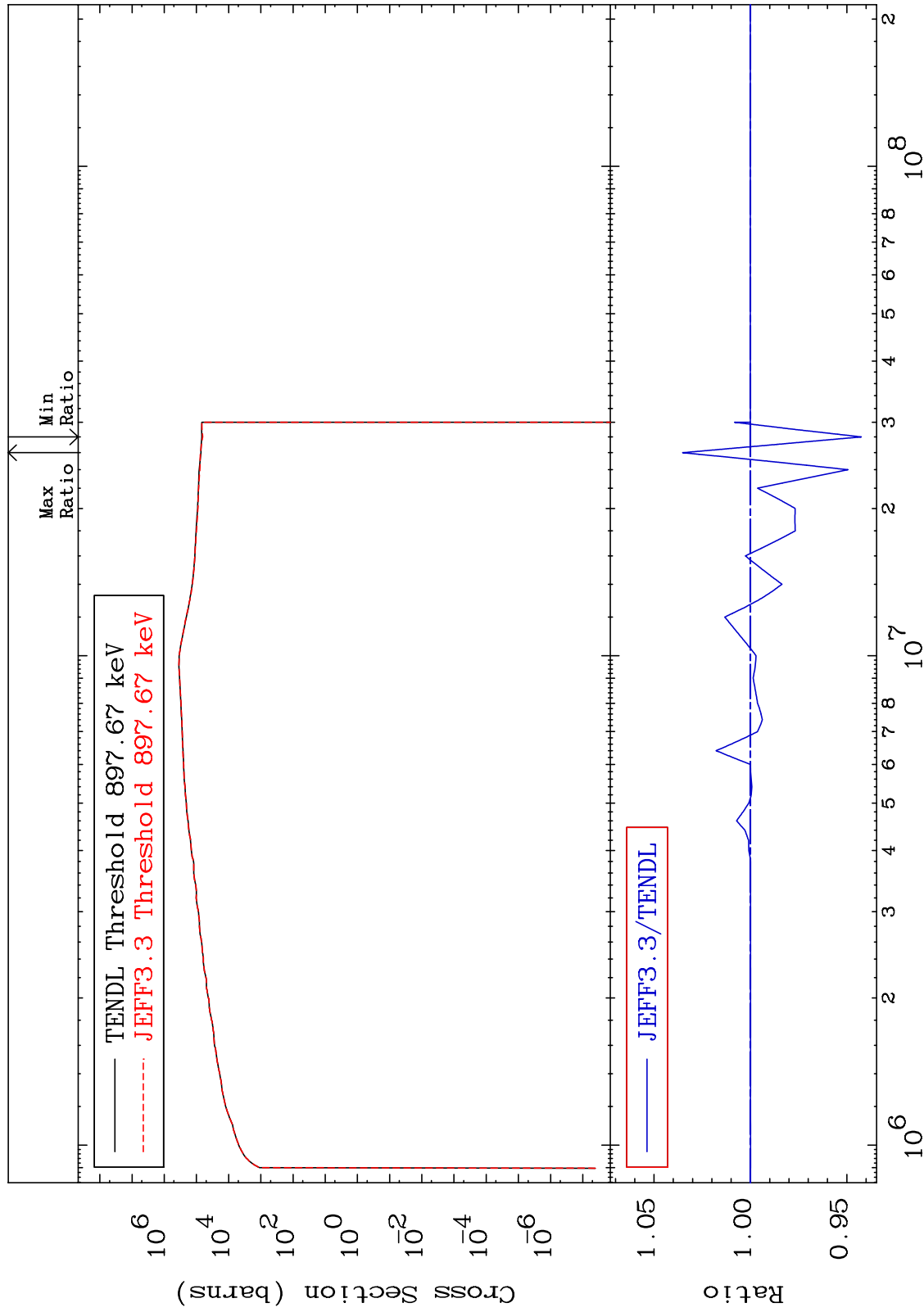
MAT 3043      Kerma non-elastic (all but mt2)      30-Zn-70  
 -100.0 To 9999. %  
 Cross Section



MAT 3043

Kerma inelastic (mt51-91)  
Cross Section

30-Zn-70  
-5.756 To 3.513 %



52

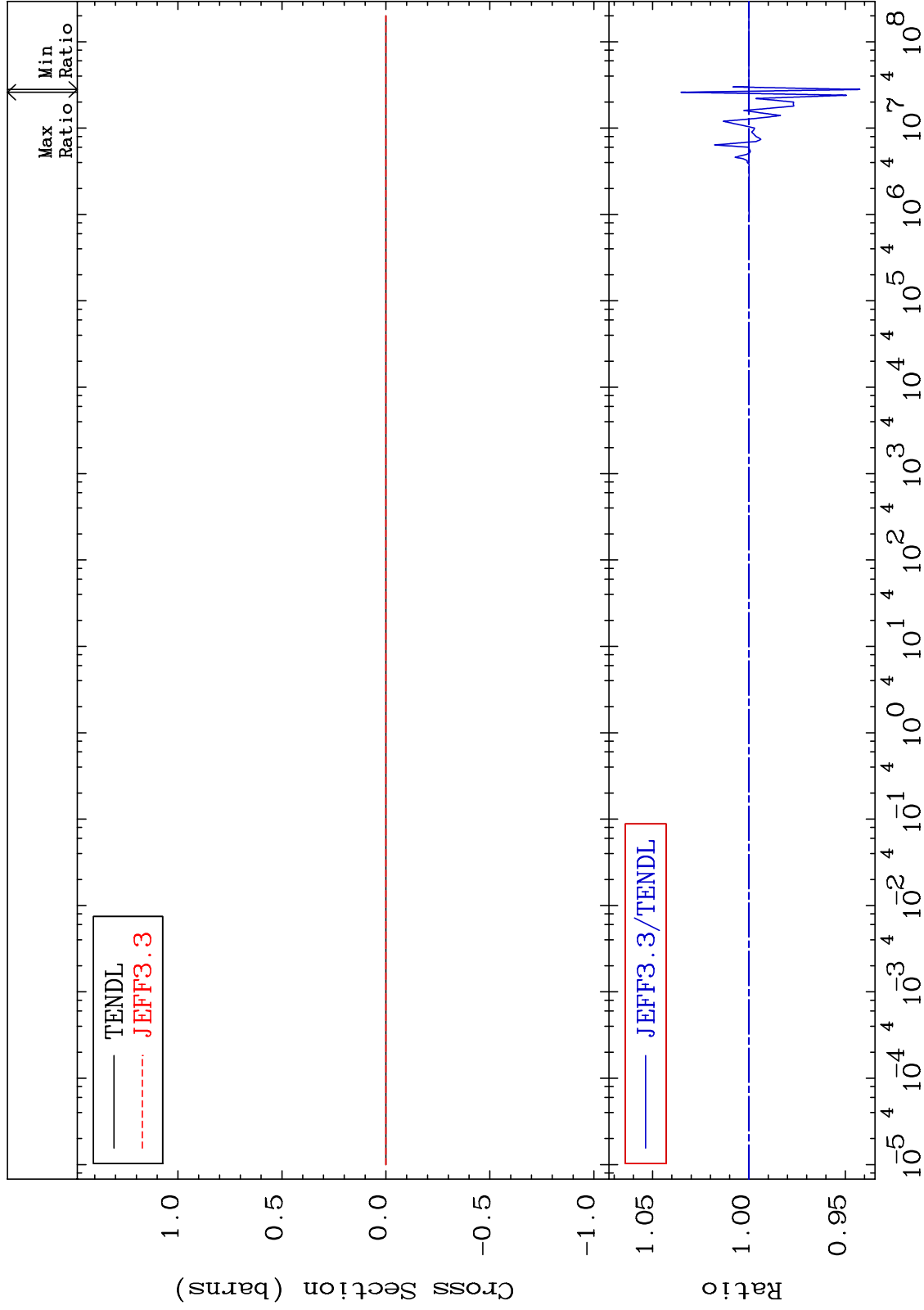
Incident Energy (eV)

30-Zn-70

MAT 3043

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

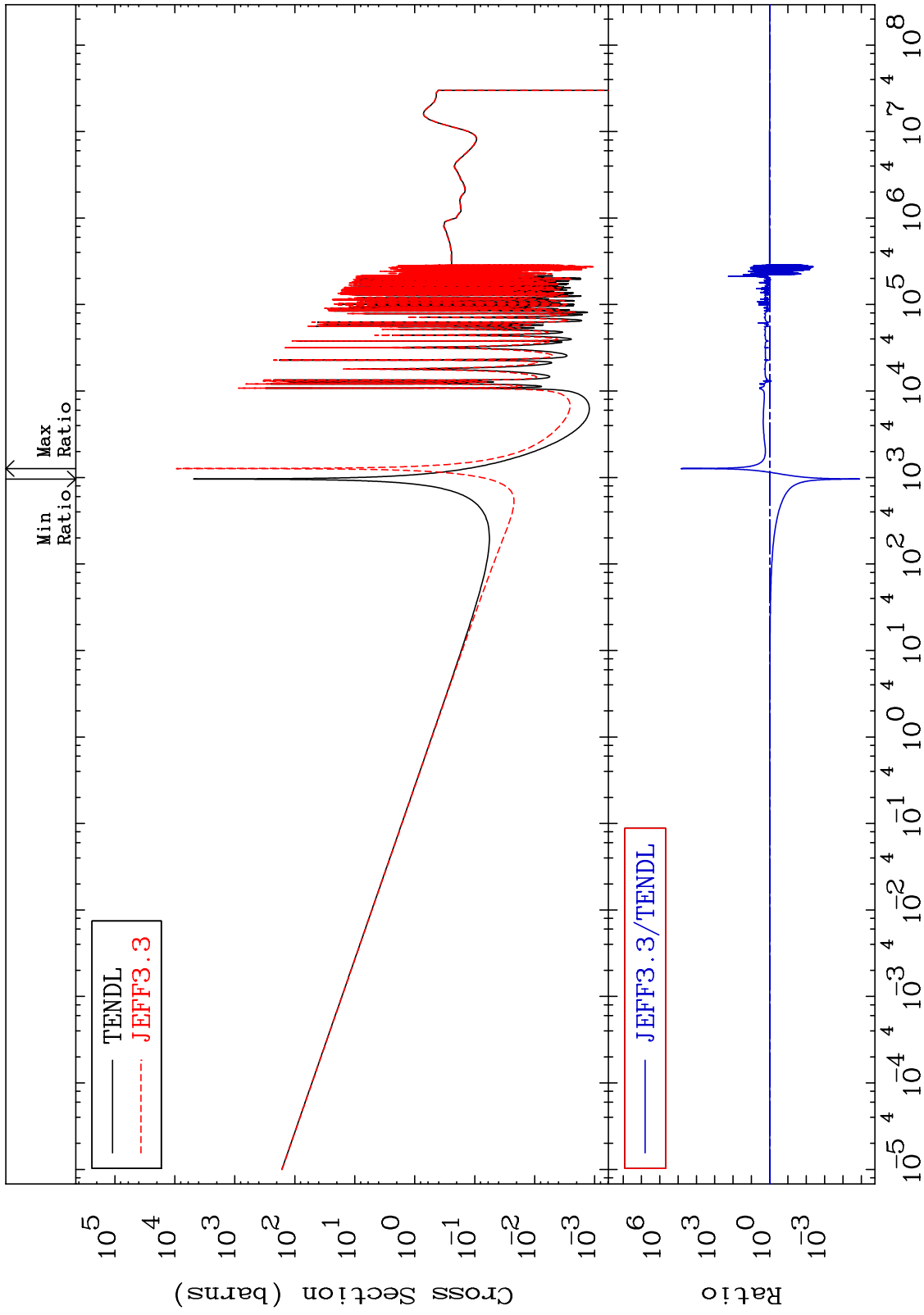
30-Zn-70  
-5.756 To 3.513 %



MAT 3043

Kerma capture (mt102)  
Cross Section

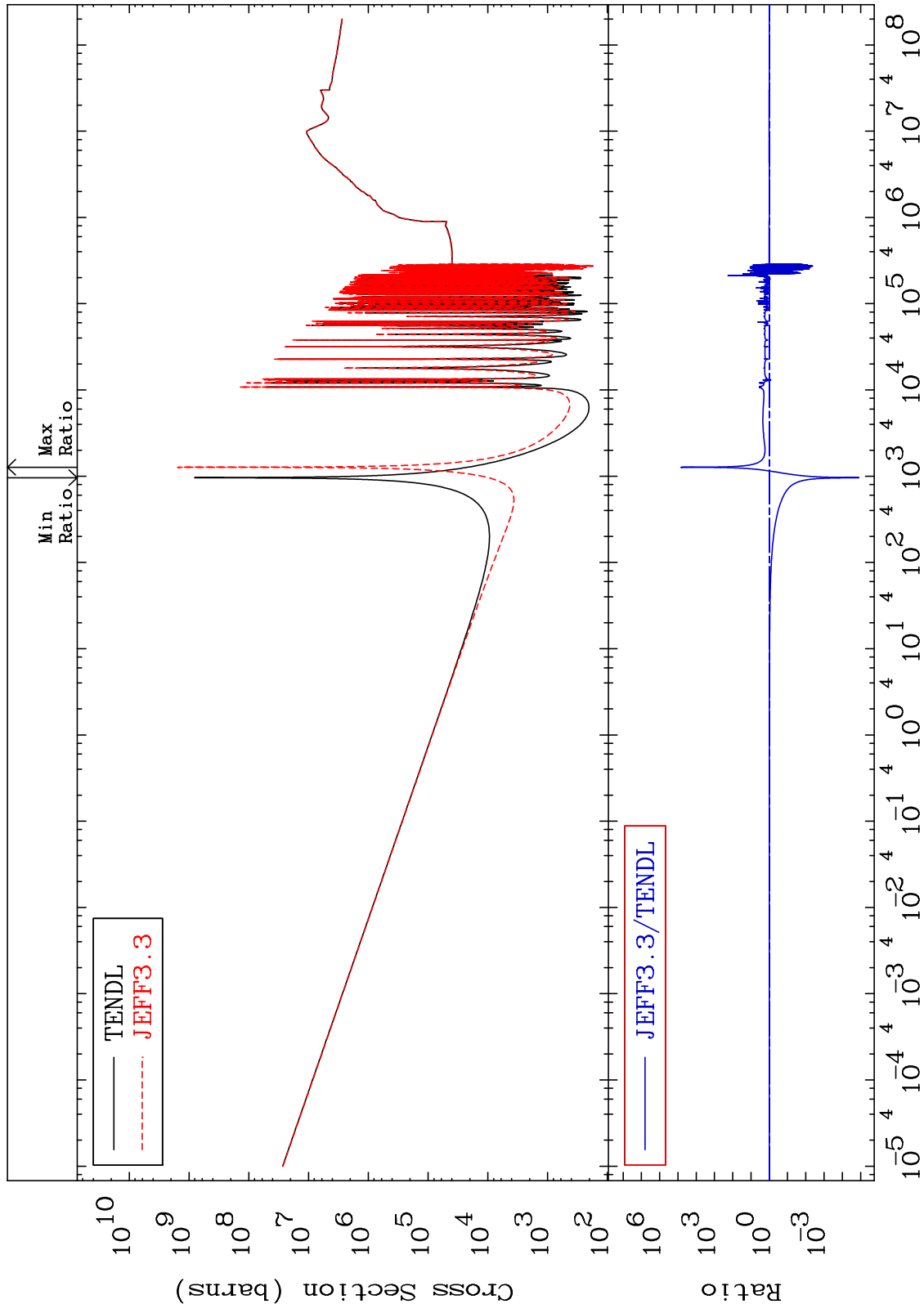
30-Zn-70  
-100.0 To 9999. %



MAT 3043

Total photon (eV-barns)  
Cross Section

30-Zn-70  
-100.0 To 9999. %

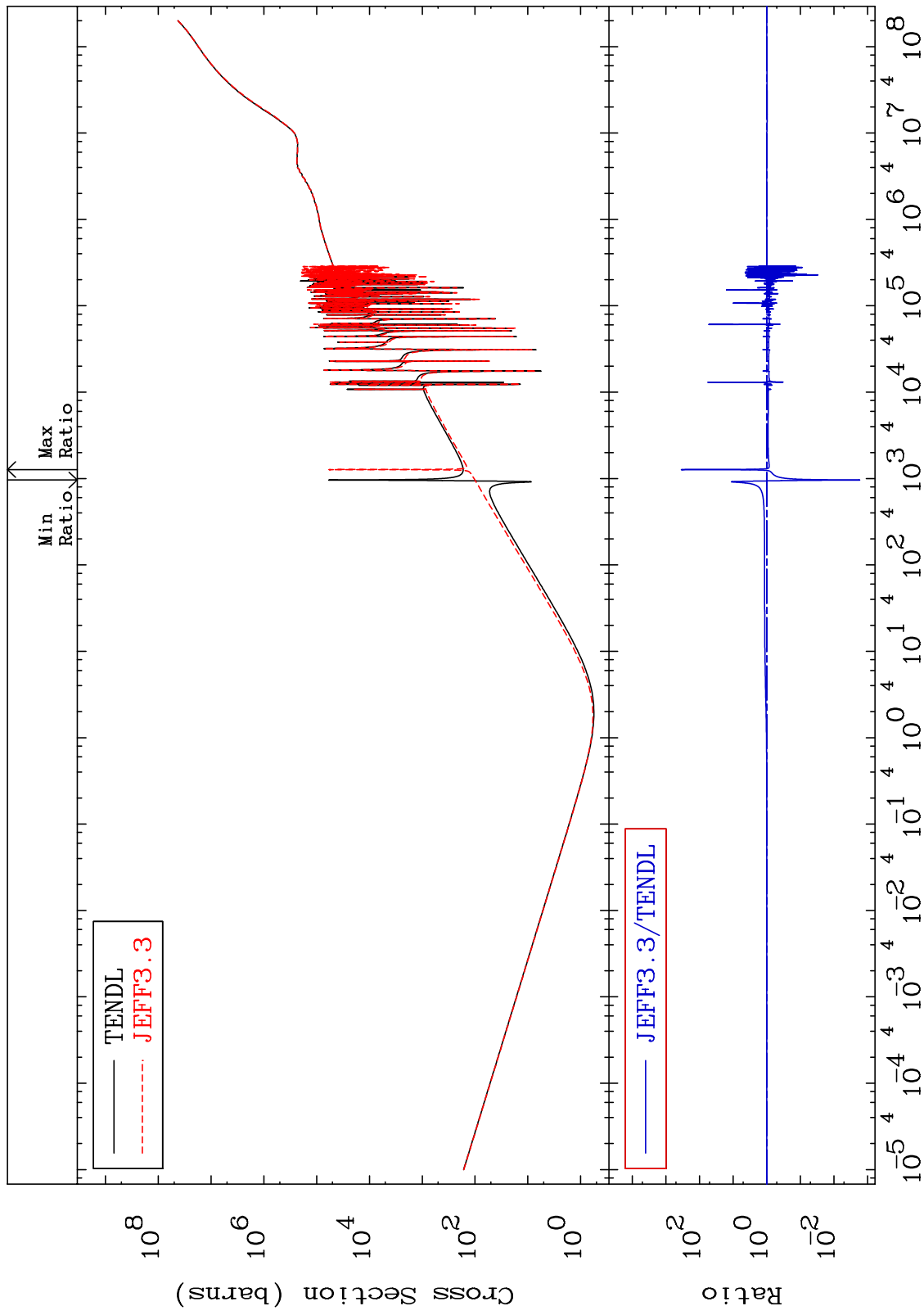




MAT 3043

Total kinematic kerma (high limit)  
Cross Section

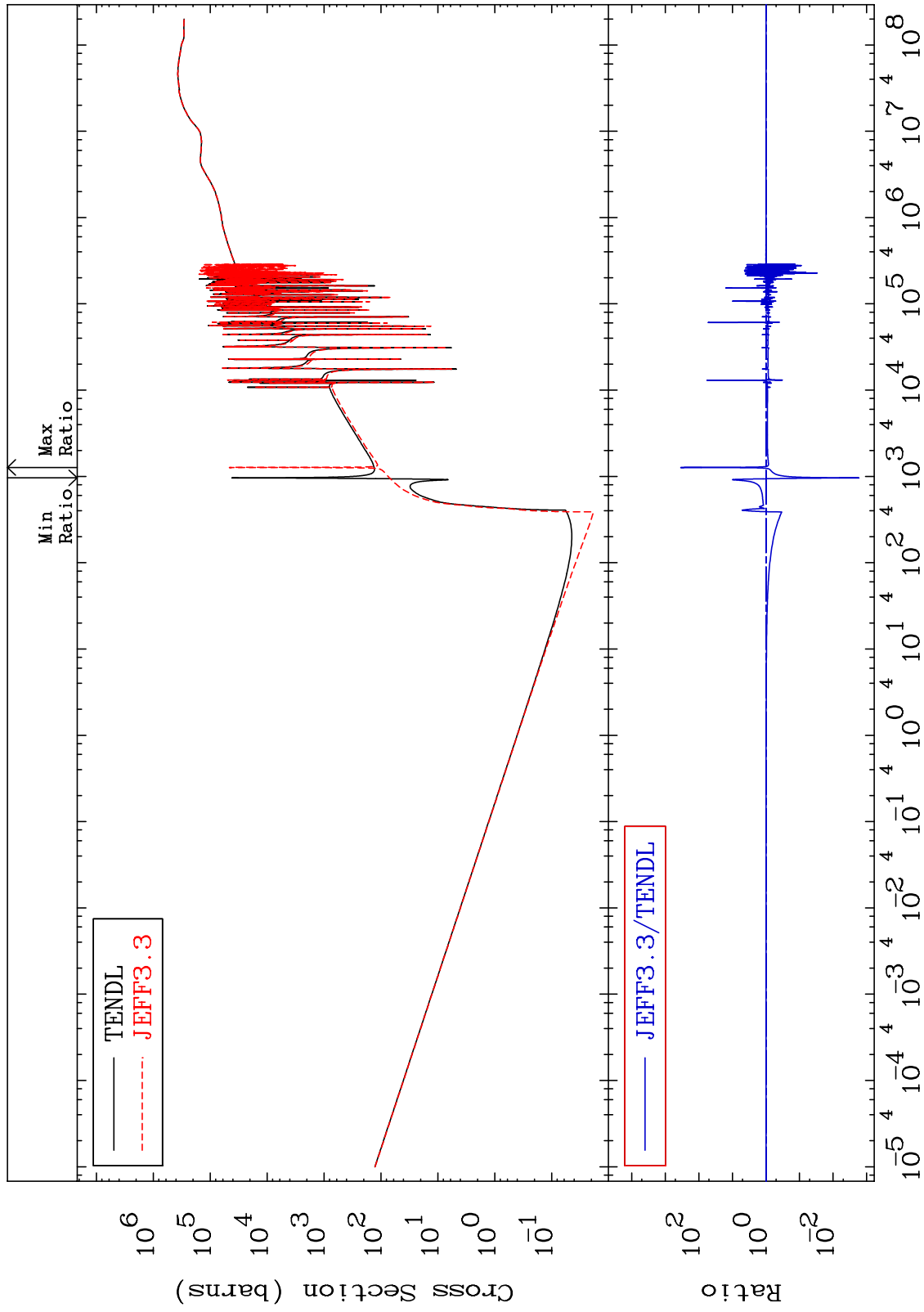
30-Zn-70  
-99.83 To 9999. %



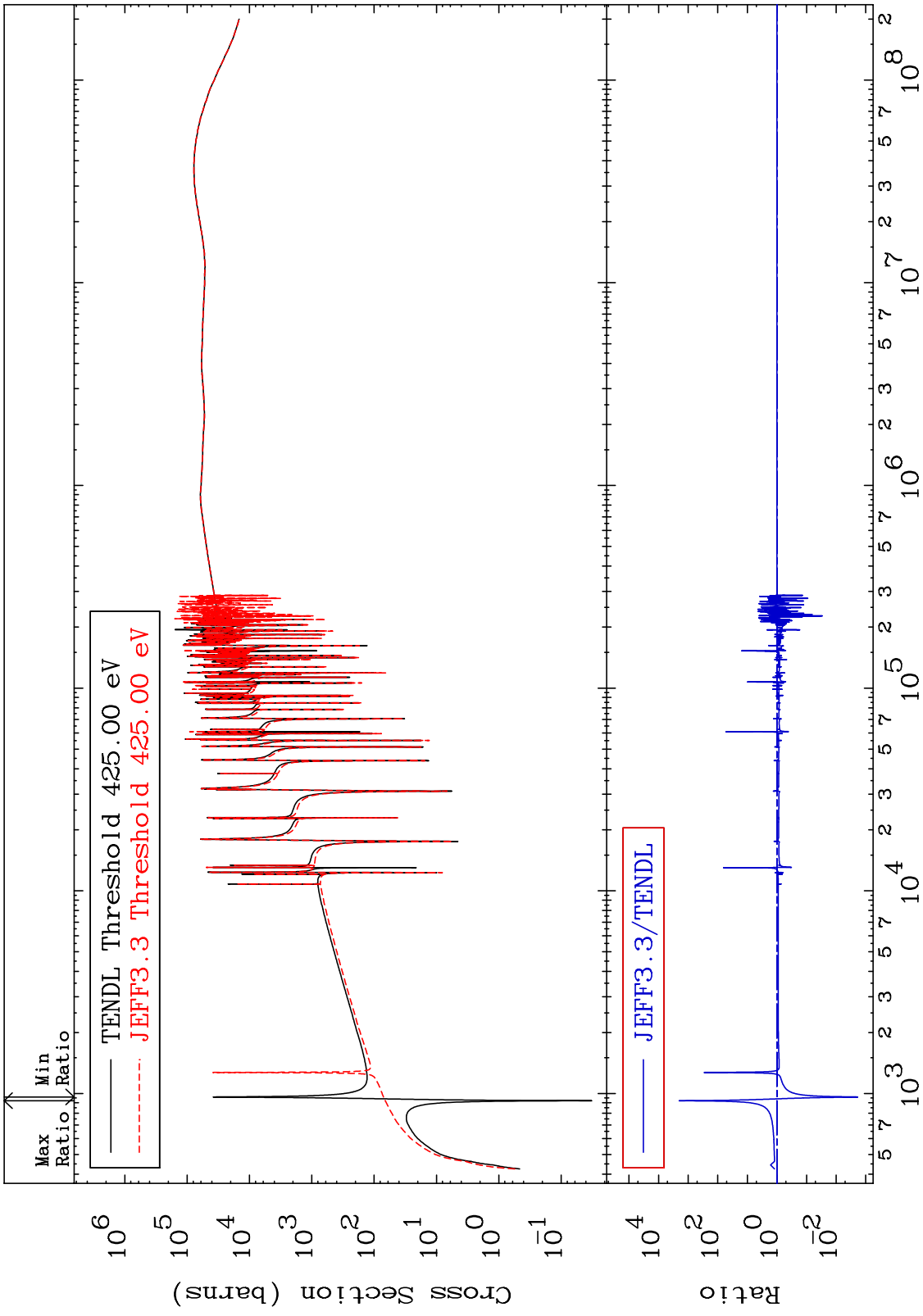
MAT 3043

Dpa total (eV-barns)  
Cross Section

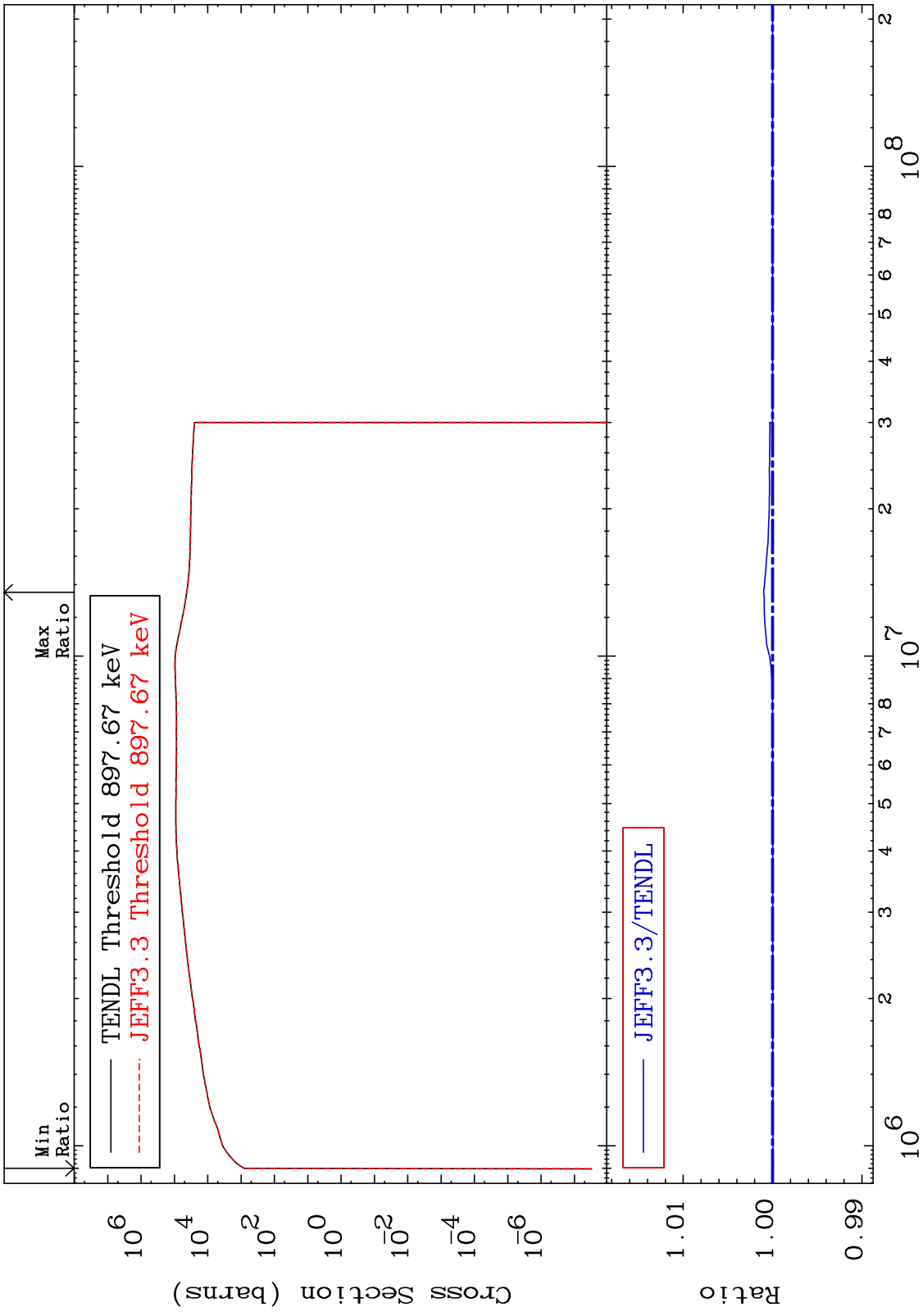
30-Zn-70  
-99.83 To 9999. %



MAT 3043      Dpa elastic (mt2)      30-Zn-70  
 Cross Section      -99.81 To 9999. %



MAT 3043      Dpa inelastic (mt51-91)      30-Zn-70  
 Cross Section      -0.007 To 0.099 %

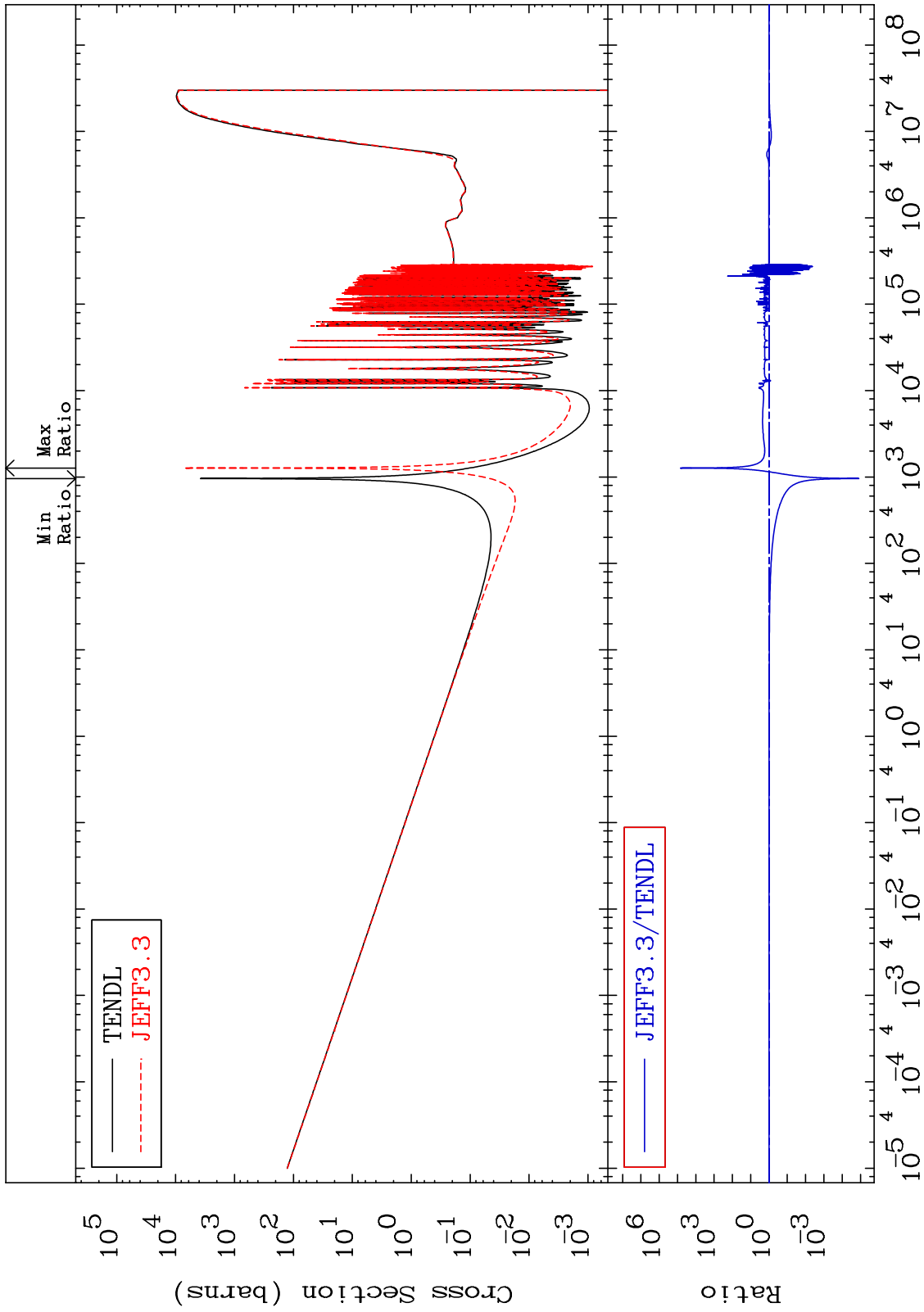


59      Incident Energy (eV)      30-Zn-70

MAT 3043

Dpa disappearance (mt102 -120)  
Cross Section

30-Zn-70  
-100.0 To 9999. %

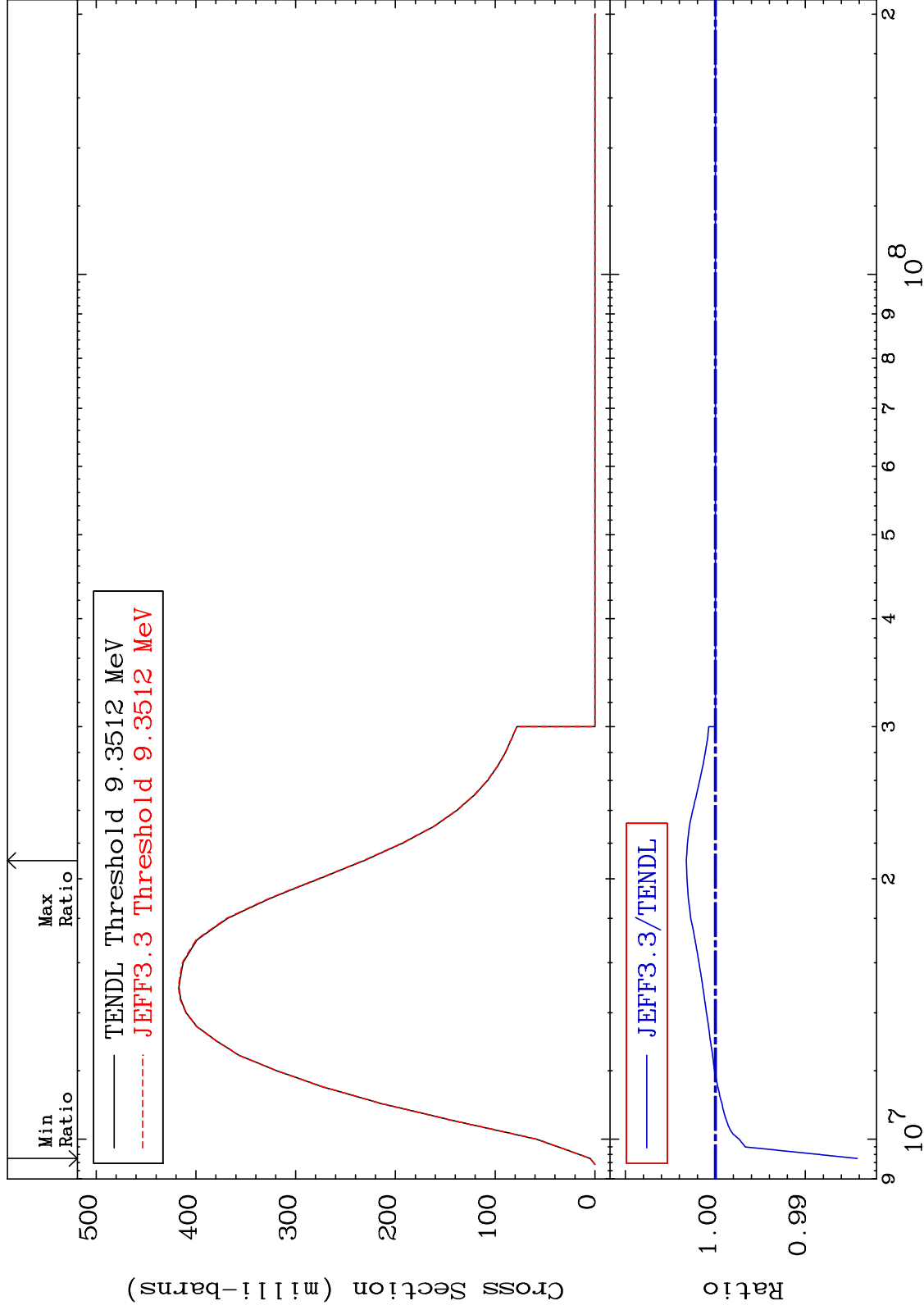


MAT 3043

30-Zn-70

(n,2n):30-Zn-69g

Radionuclide Production Cross Section -1.578 To 0.322 %



61

Incident Energy (eV)

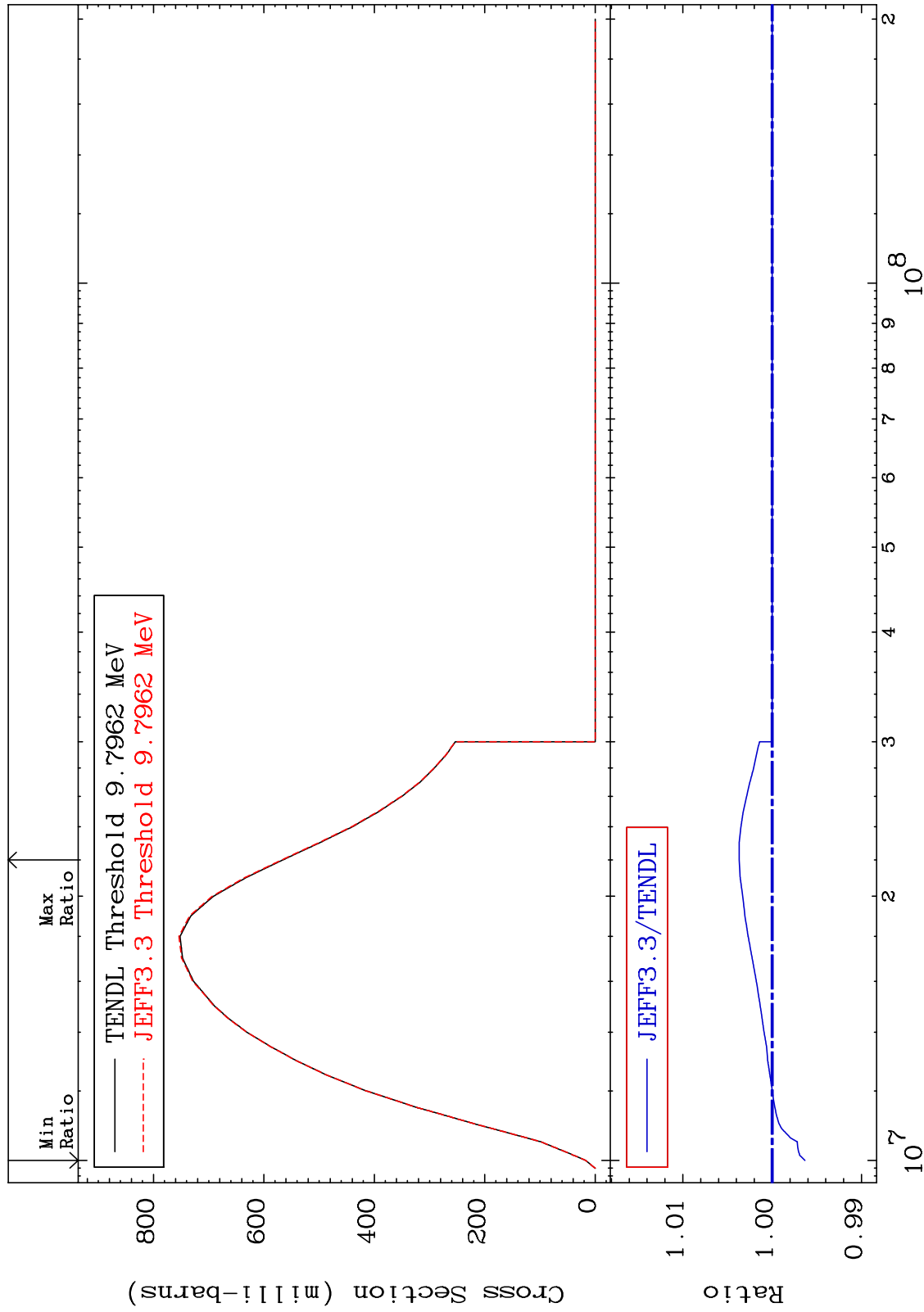
30-Zn-70

MAT 3043

(n,2n):30-Zn-69m1

30-Zn-70

Radionuclide Production Cross Section -0.367 To 0.370 %

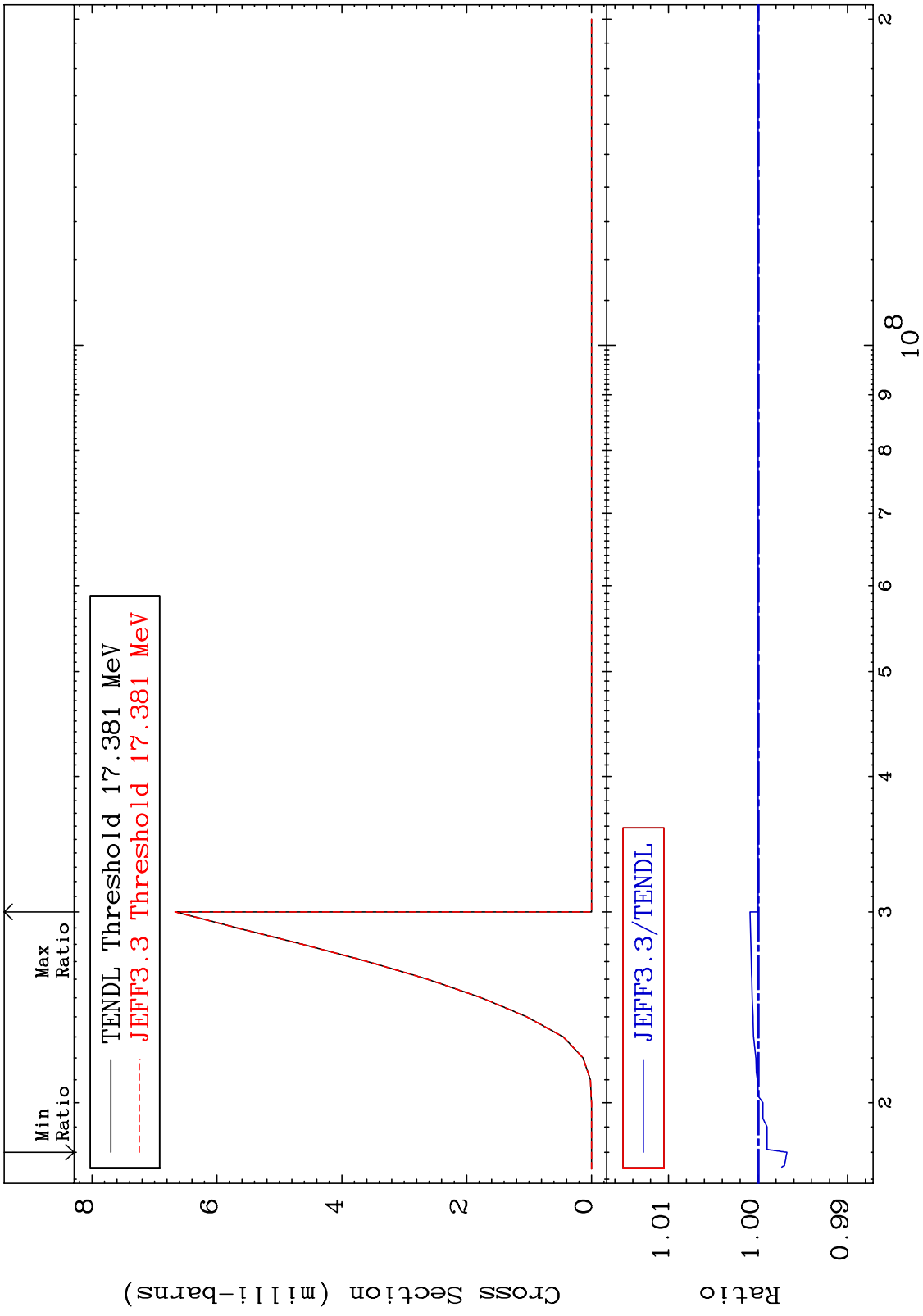


62

Incident Energy (eV)

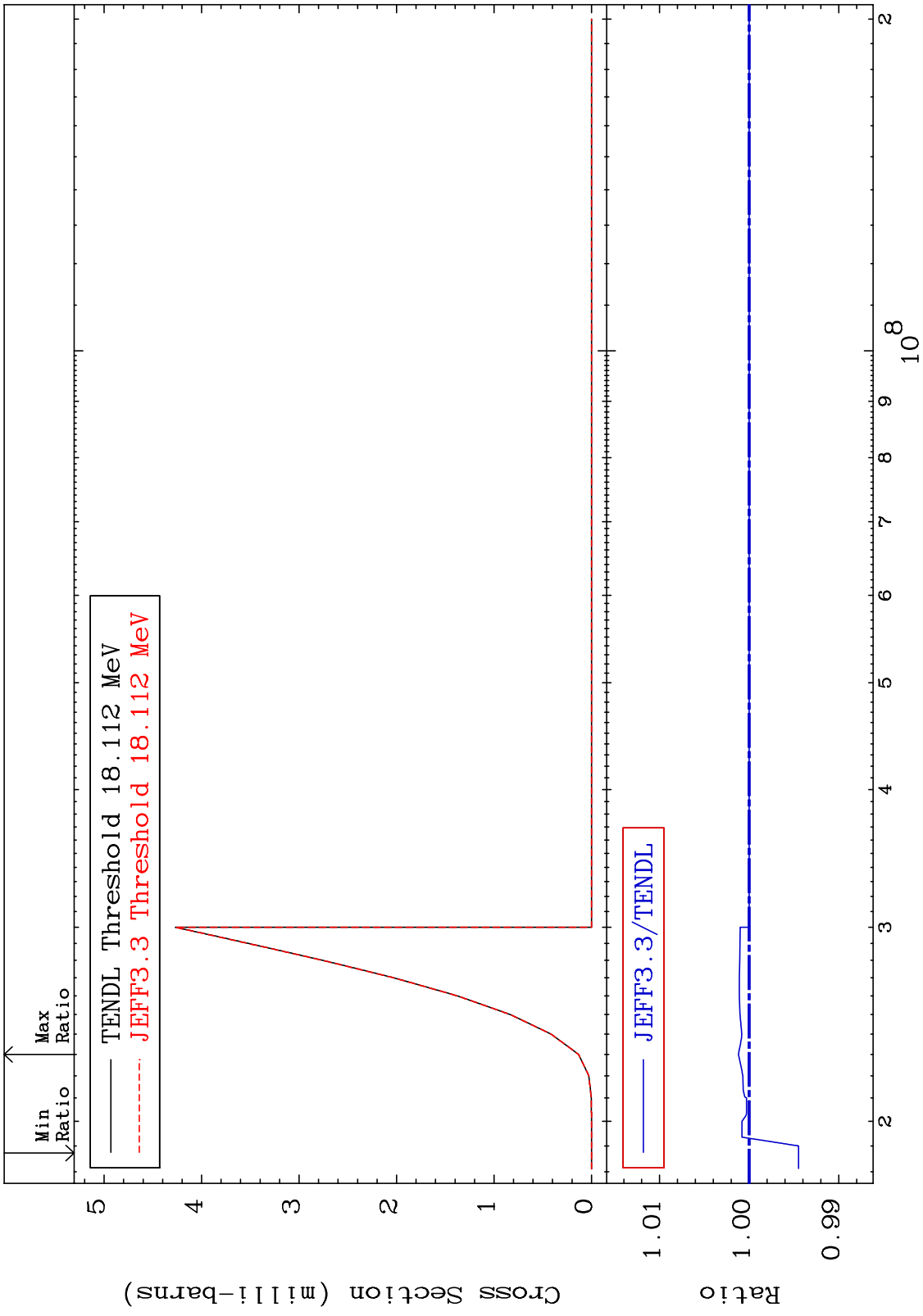
30-Zn-70

MAT 3043 (n, n') d:29-Cu-68g 30-Zn-70  
 Radionuclide Production Cross Section -0.322 To 0.090 %





MAT 3043 (n,n') d:29-Cu-68m3 30-Zn-70  
 Radionuclide Production Cross Section -0.550 To 0.121 %

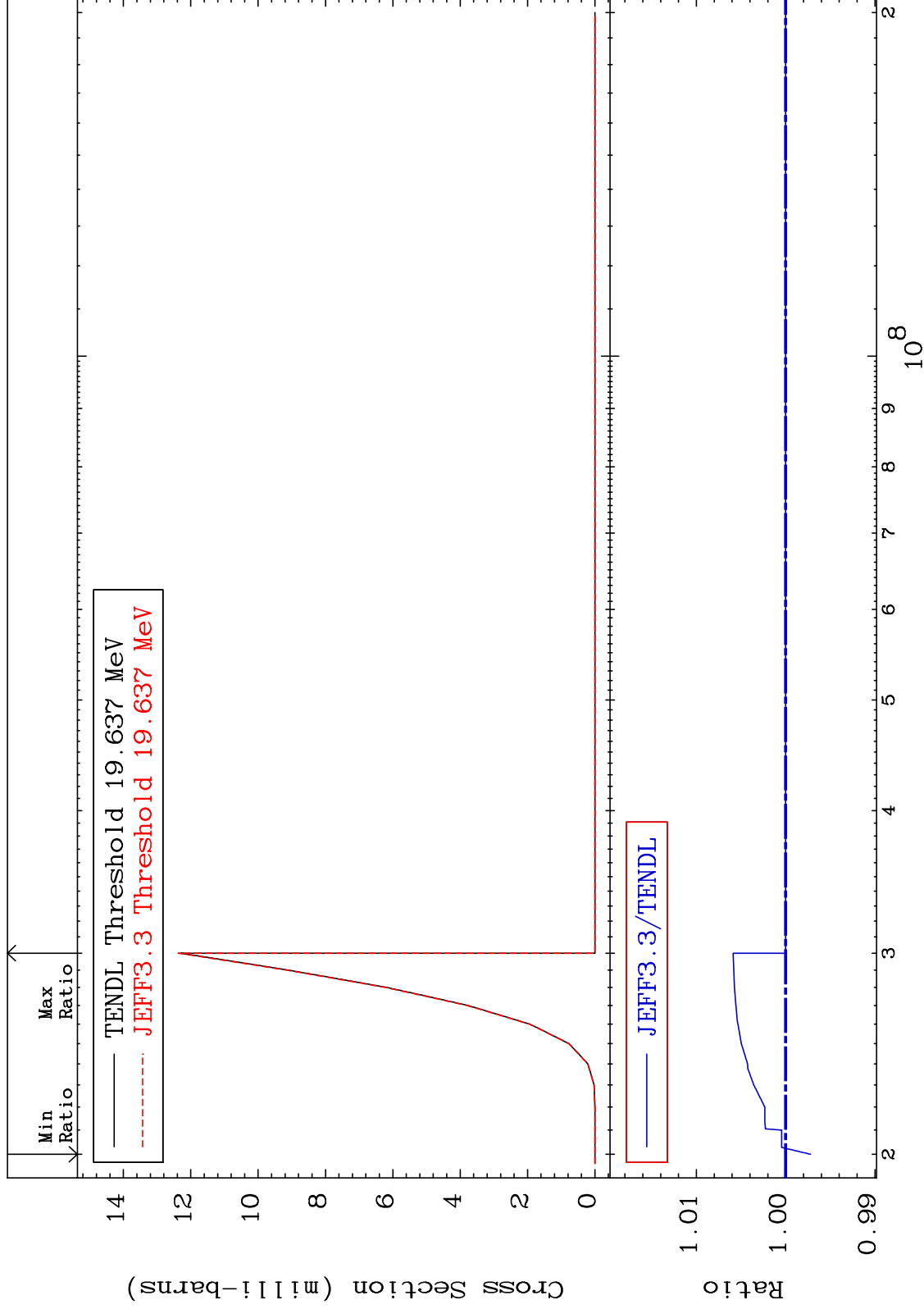


MAT 3043

(n,2n) p:29-Cu-68g

30-Zn-70

Radionuclide Production Cross Section -0.279 To 0.588 %



65

Incident Energy (eV)

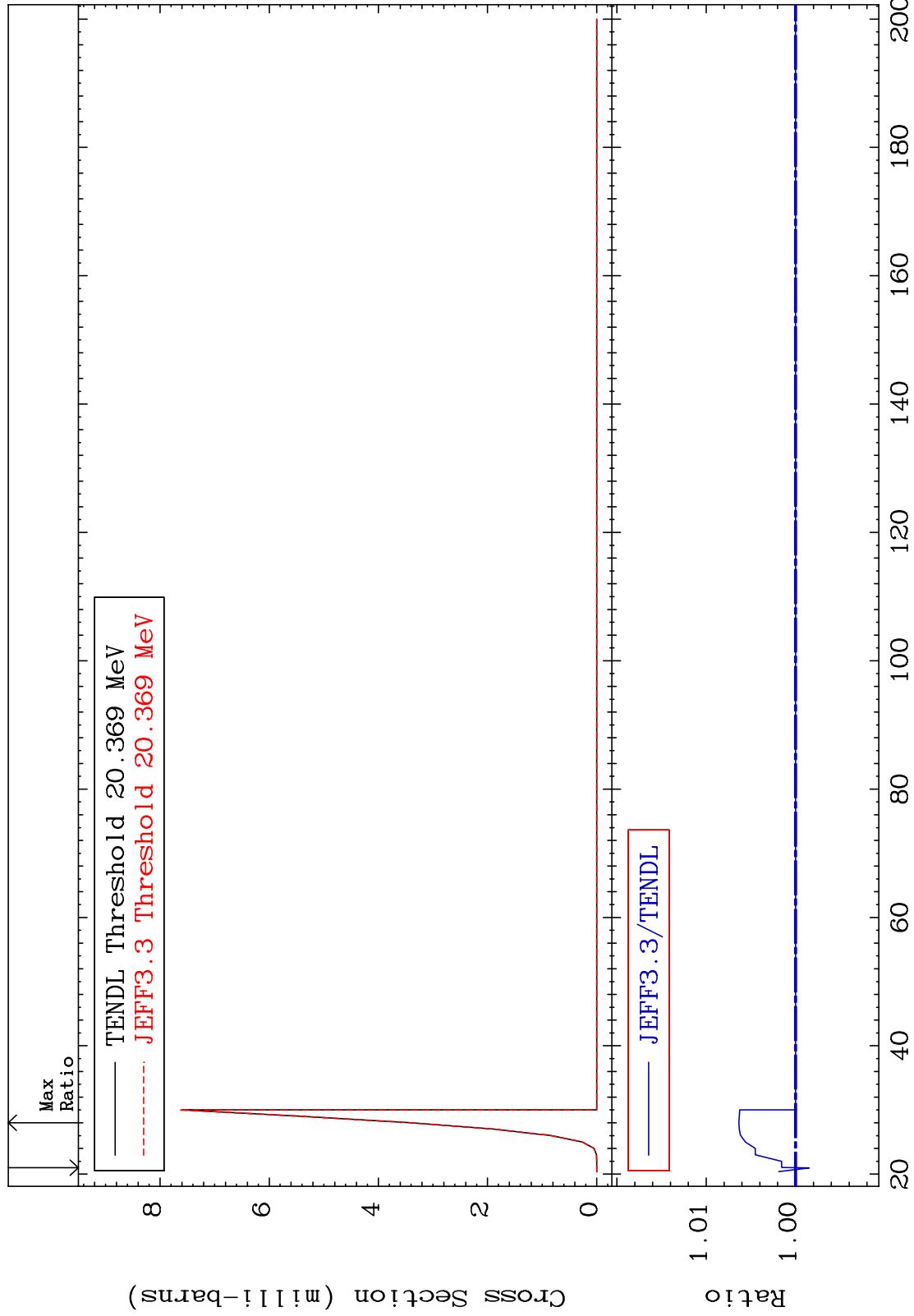
30-Zn-70

MAT 3043

(n,2n) p:29-Cu-68m3

30-Zn-70

Radionuclide Production Cross Section -0.152 To 0.636 %

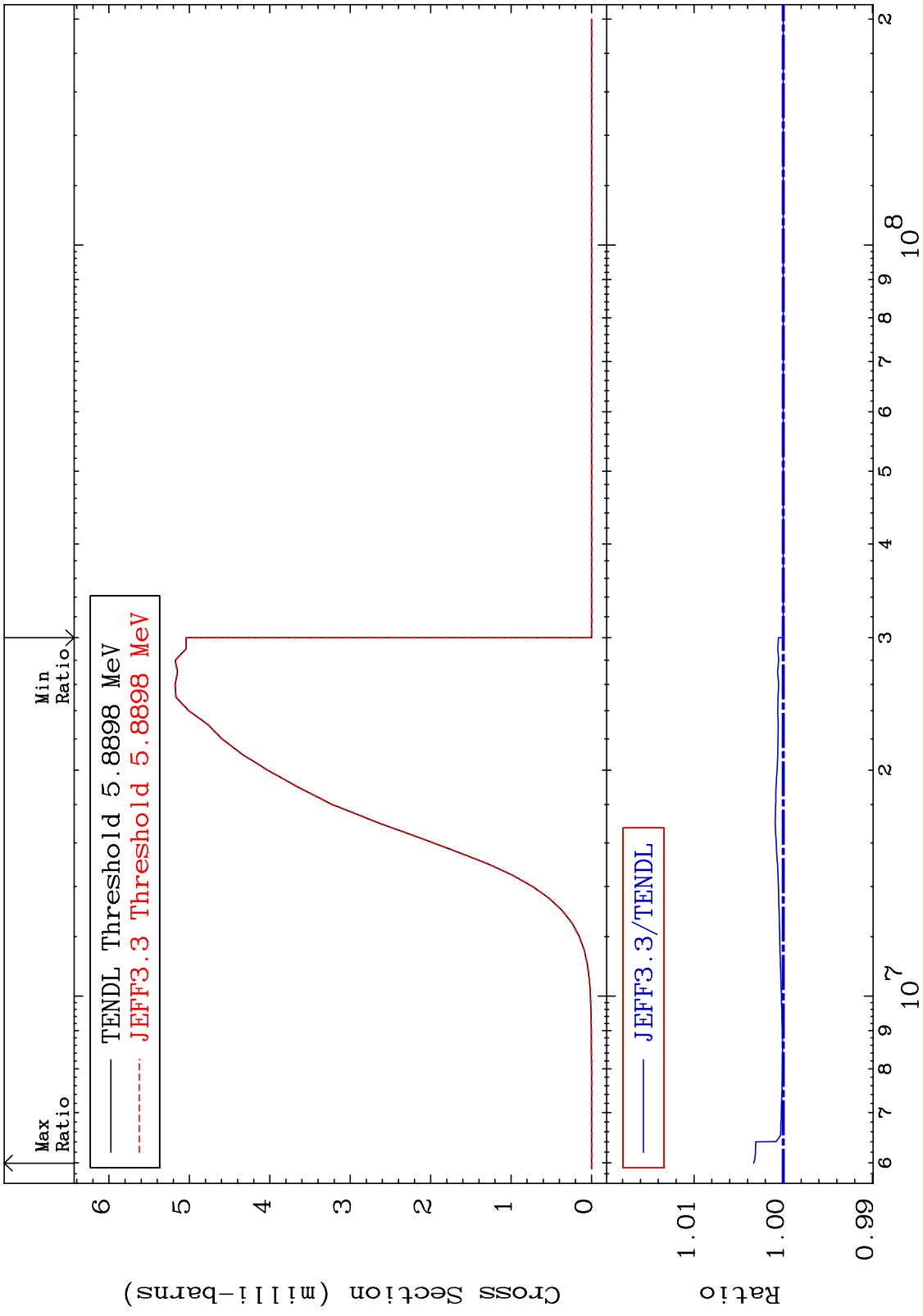


66

Incident Energy (MeV)

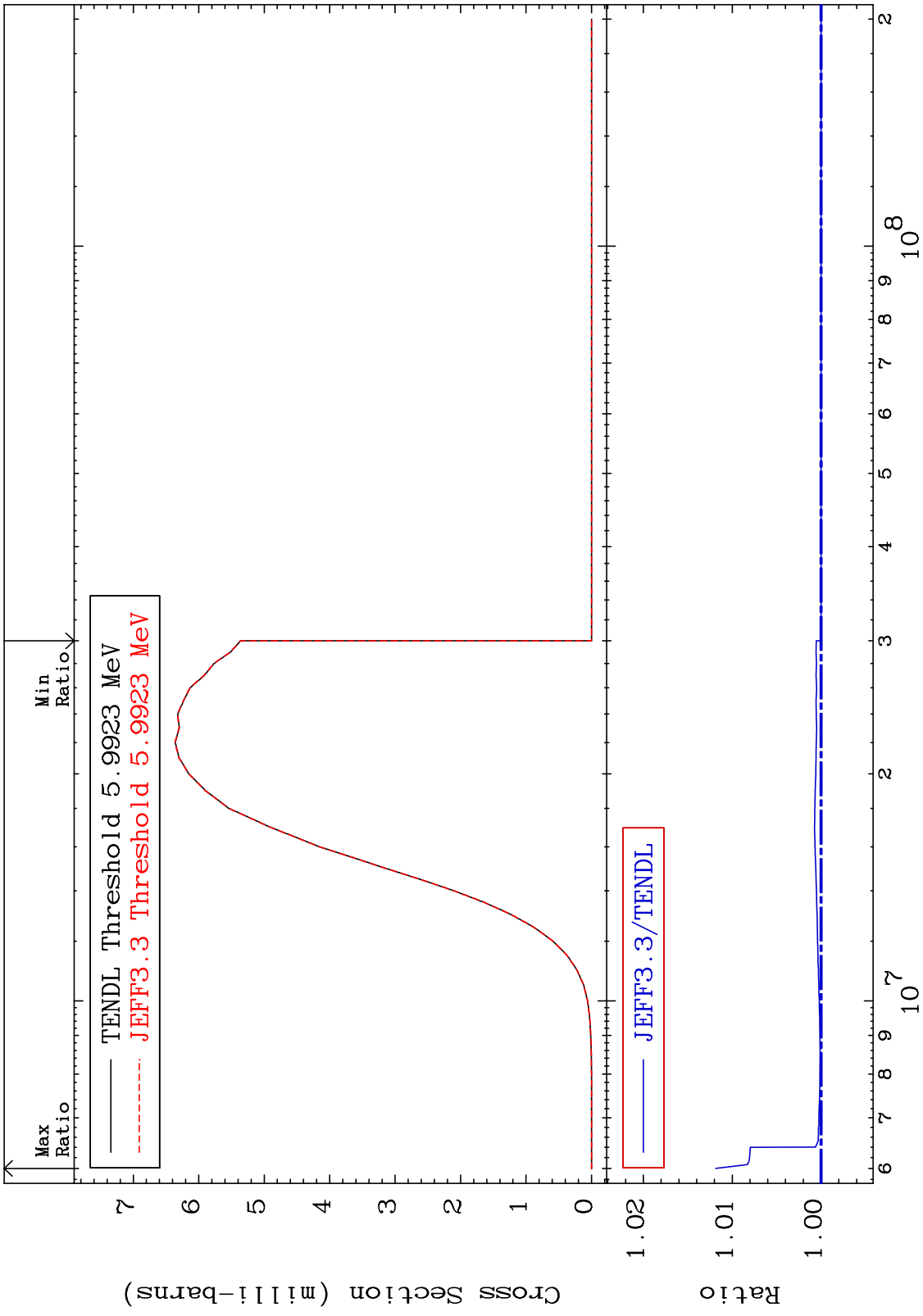
30-Zn-70

MAT 3043 (n,p):29-Cu-70g 30-Zn-70  
 Radionuclide Production Cross Section 0.000 To 0.332 %



67 Incident Energy (eV) 30-Zn-70

MAT 3043 (n,p):29-Cu-70m1 30-Zn-70  
 Radionuclide Production Cross Section 0.000 To 1.185 %

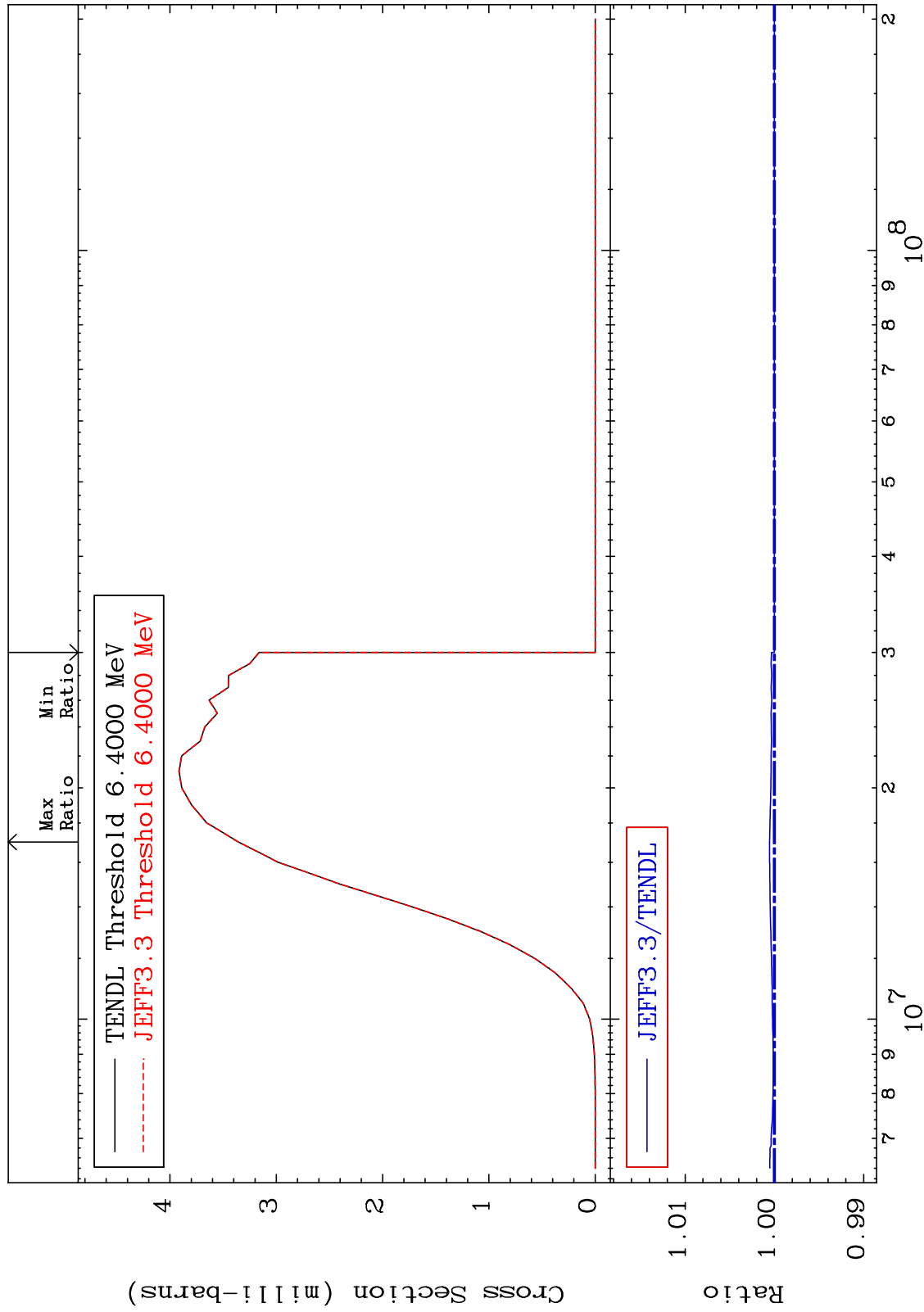


MAT 3043

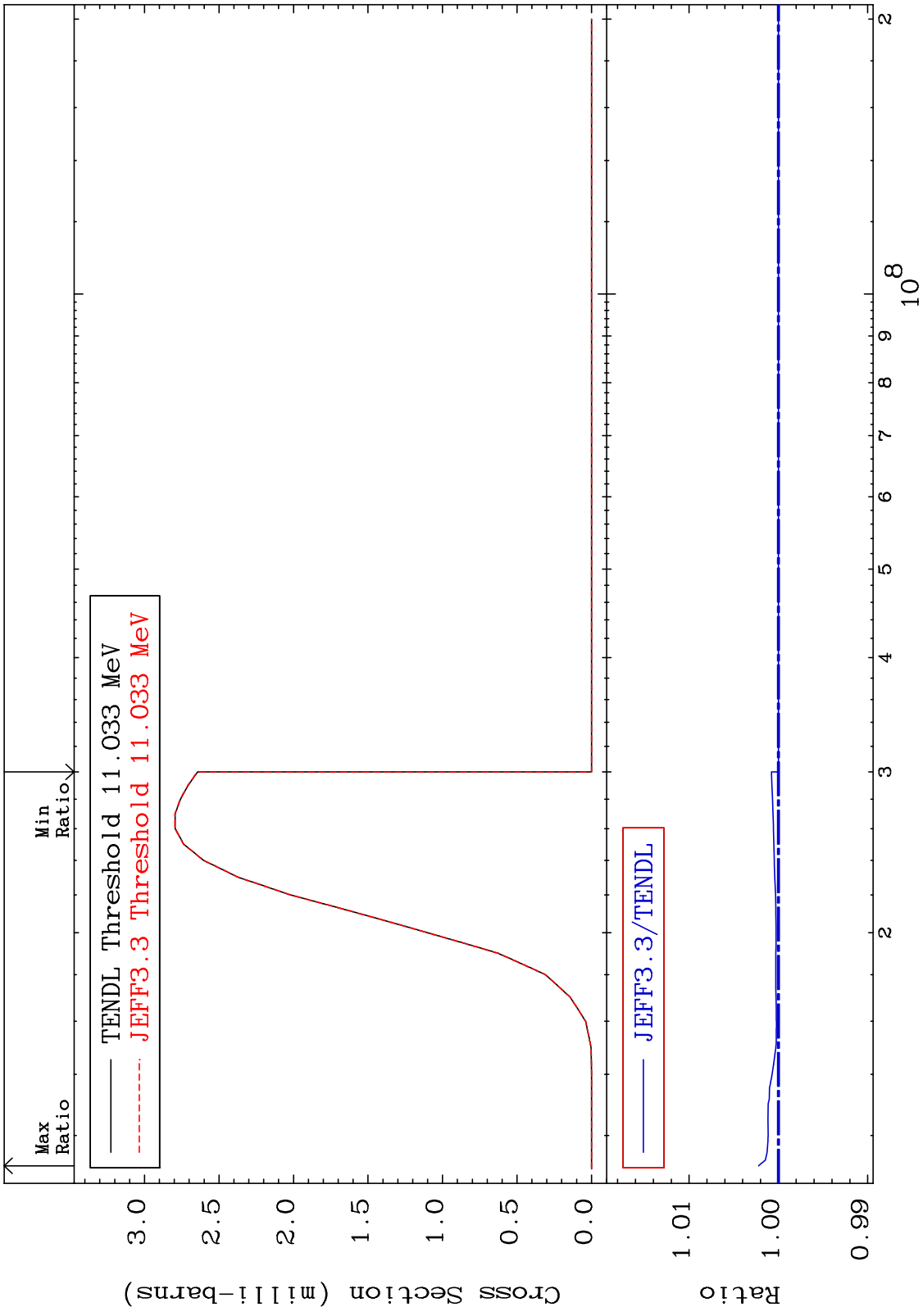
(n,p):29-Cu-70m3

30-Zn-70

Radionuclide Production Cross Section 0.000 To 0.055 %



MAT 3043 (n,t):29-Cu-68g 30-Zn-70  
 Radionuclide Production Cross Section 0.000 To 0.223 %



MAT 3043 (n,t):29-Cu-68m3 30-Zn-70  
 Radionuclide Production Cross Section 0.000 To 0.160 %

