

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

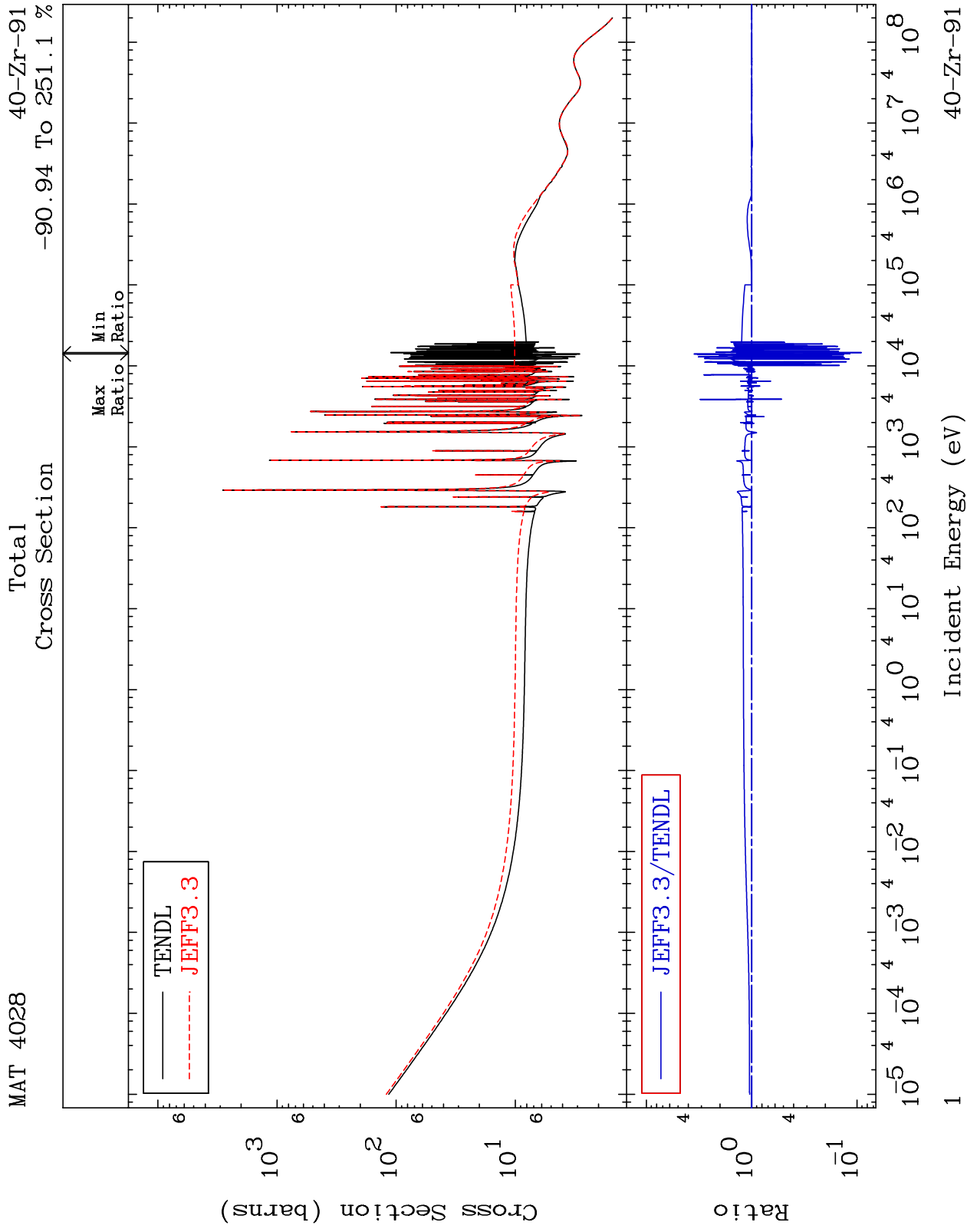
Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

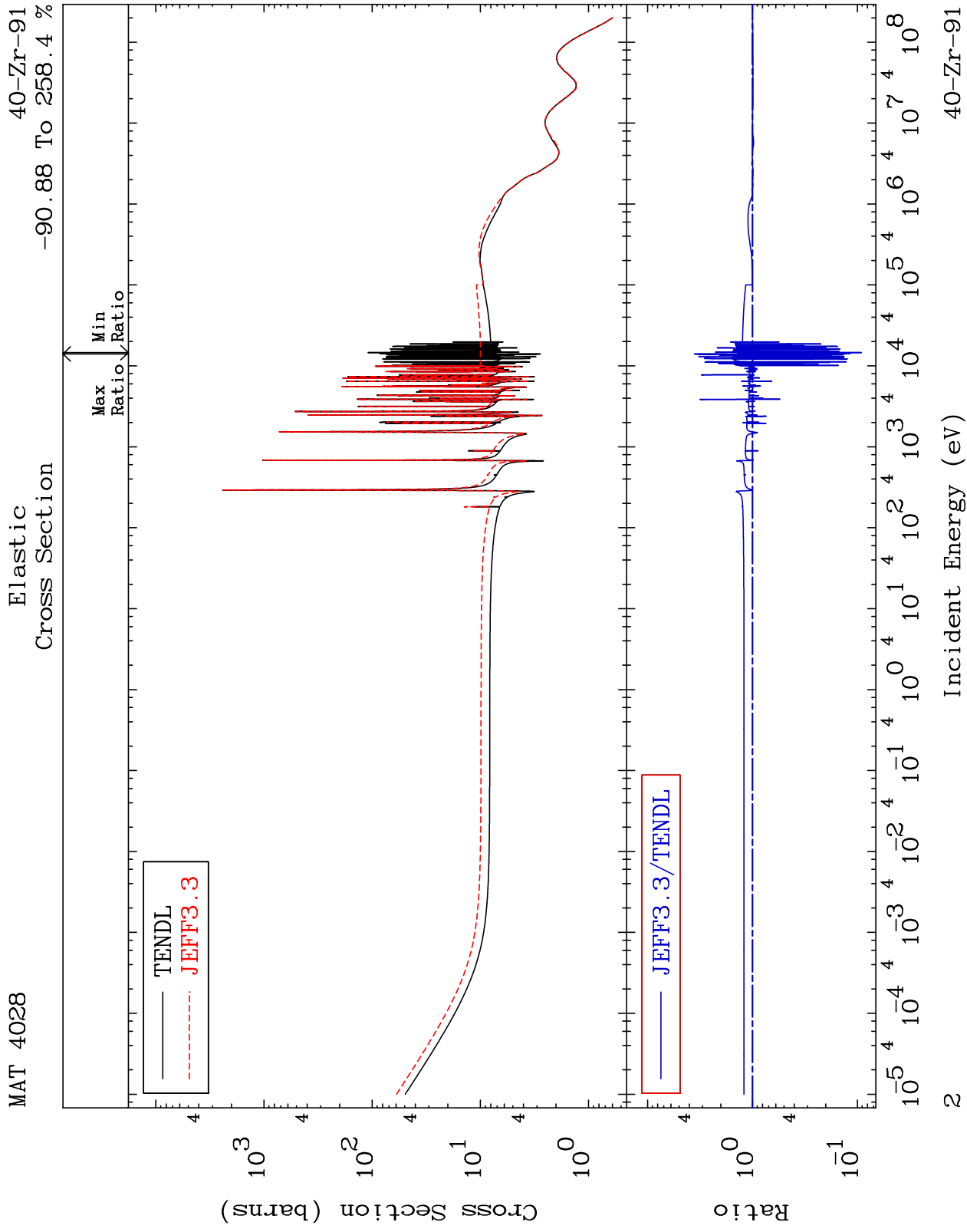
U.S.A.

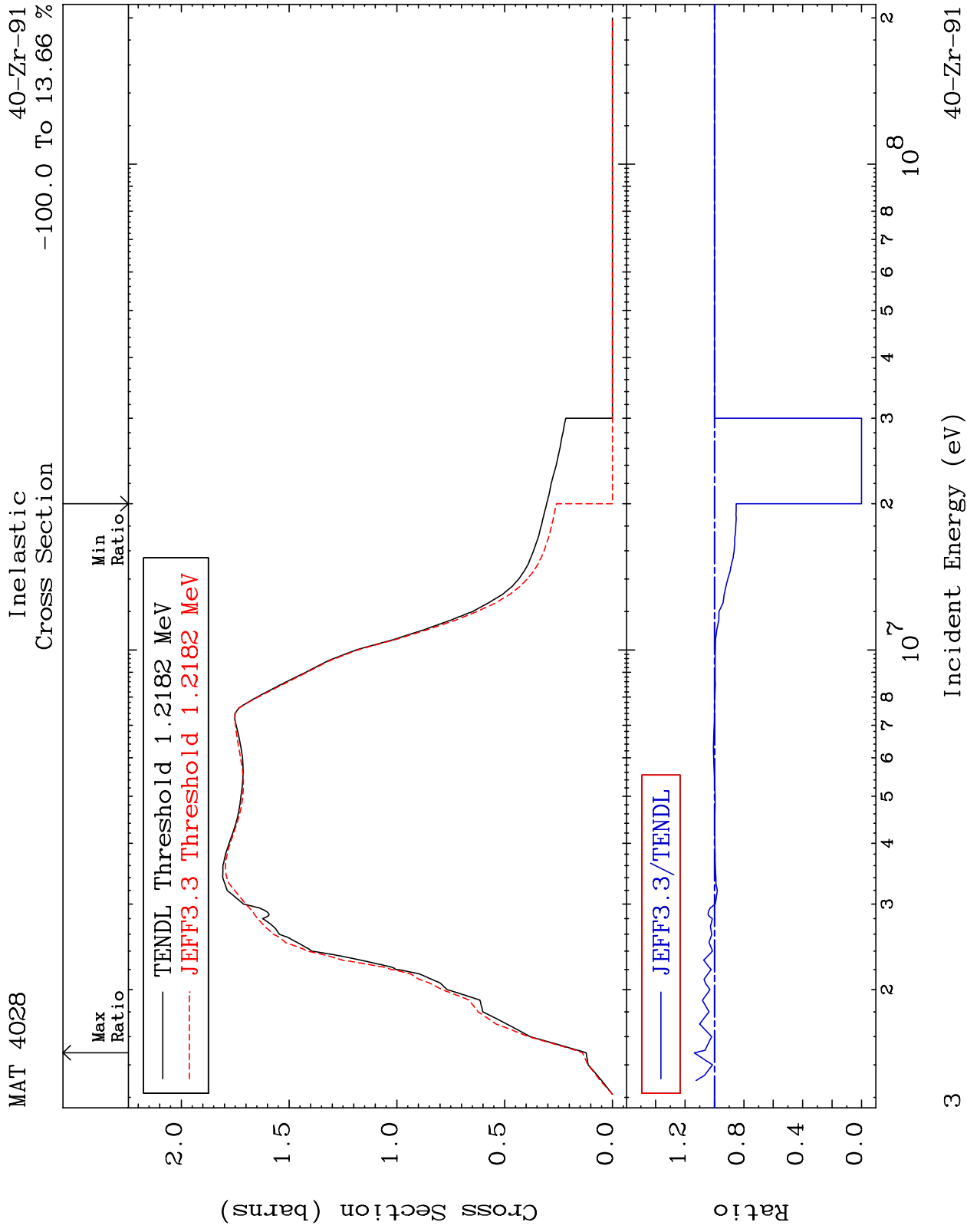
Tele: 925-443-1911

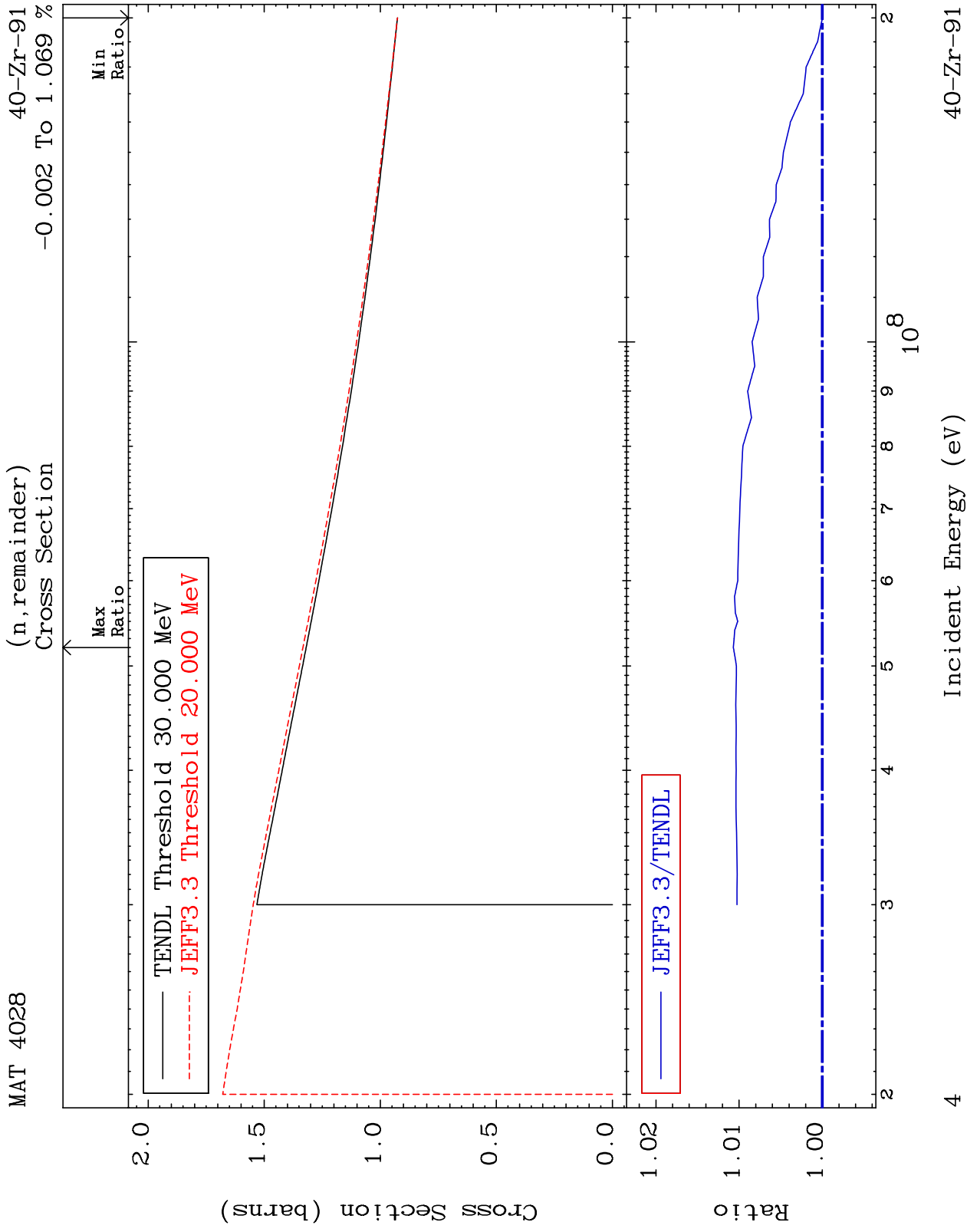
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

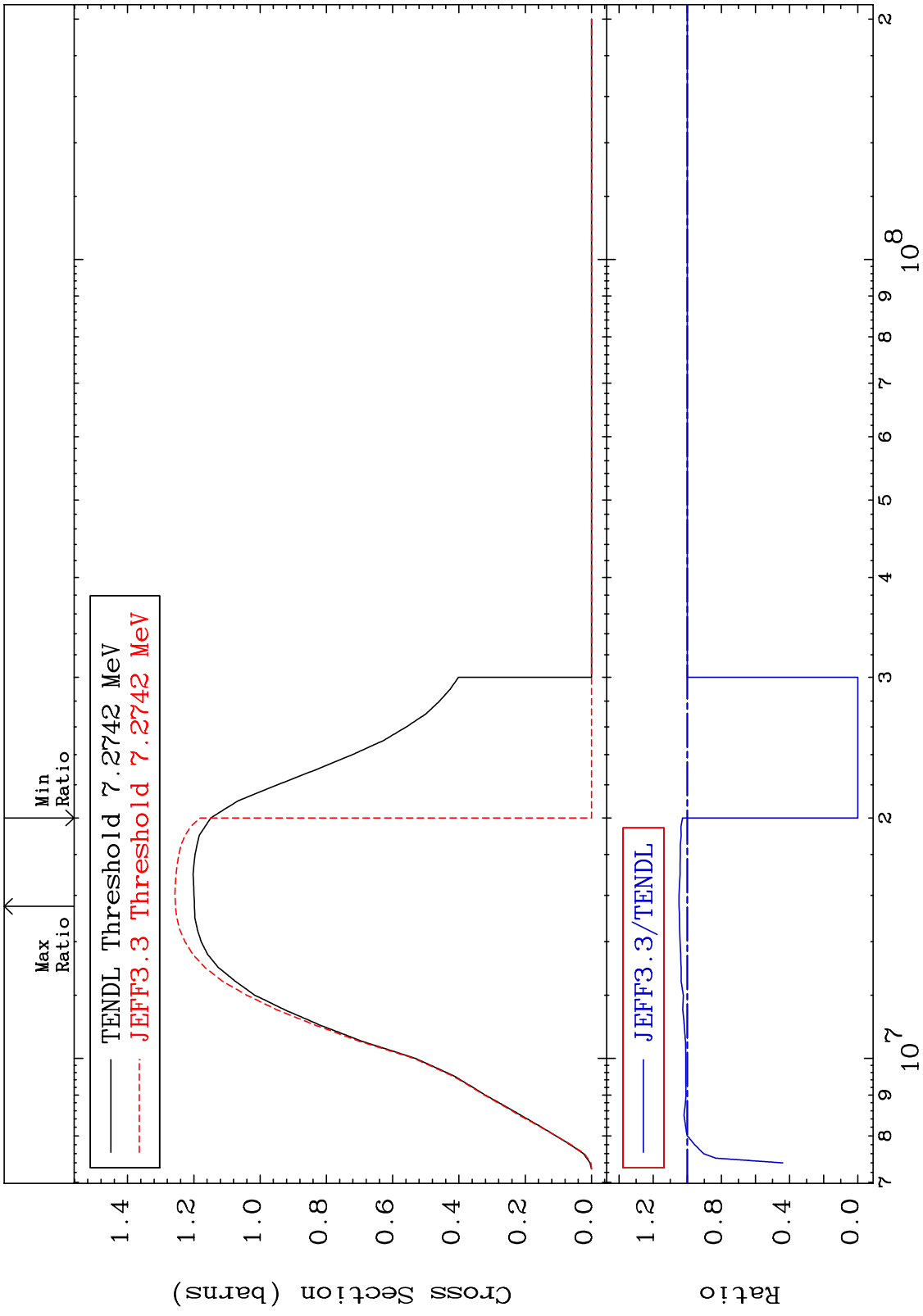




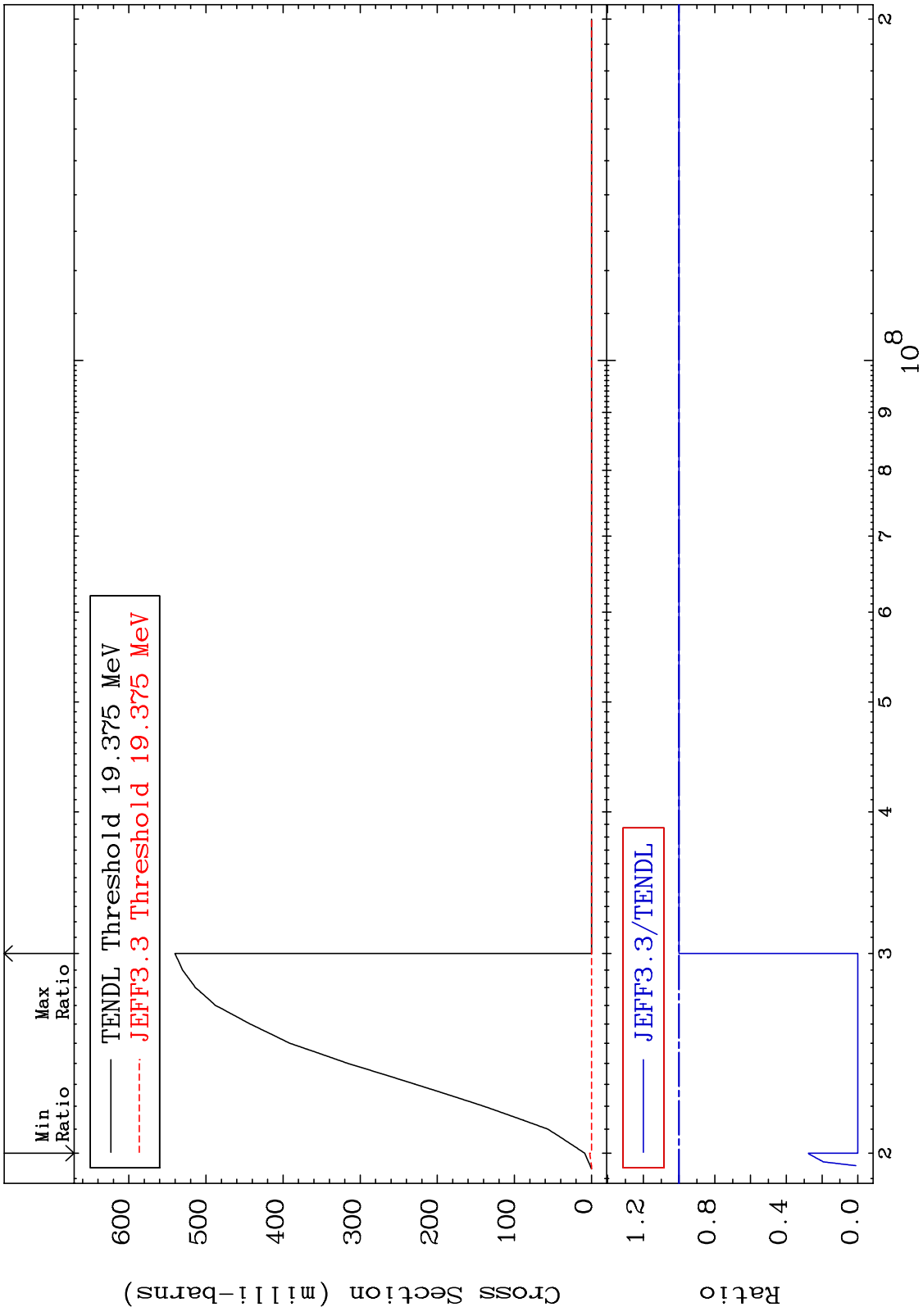




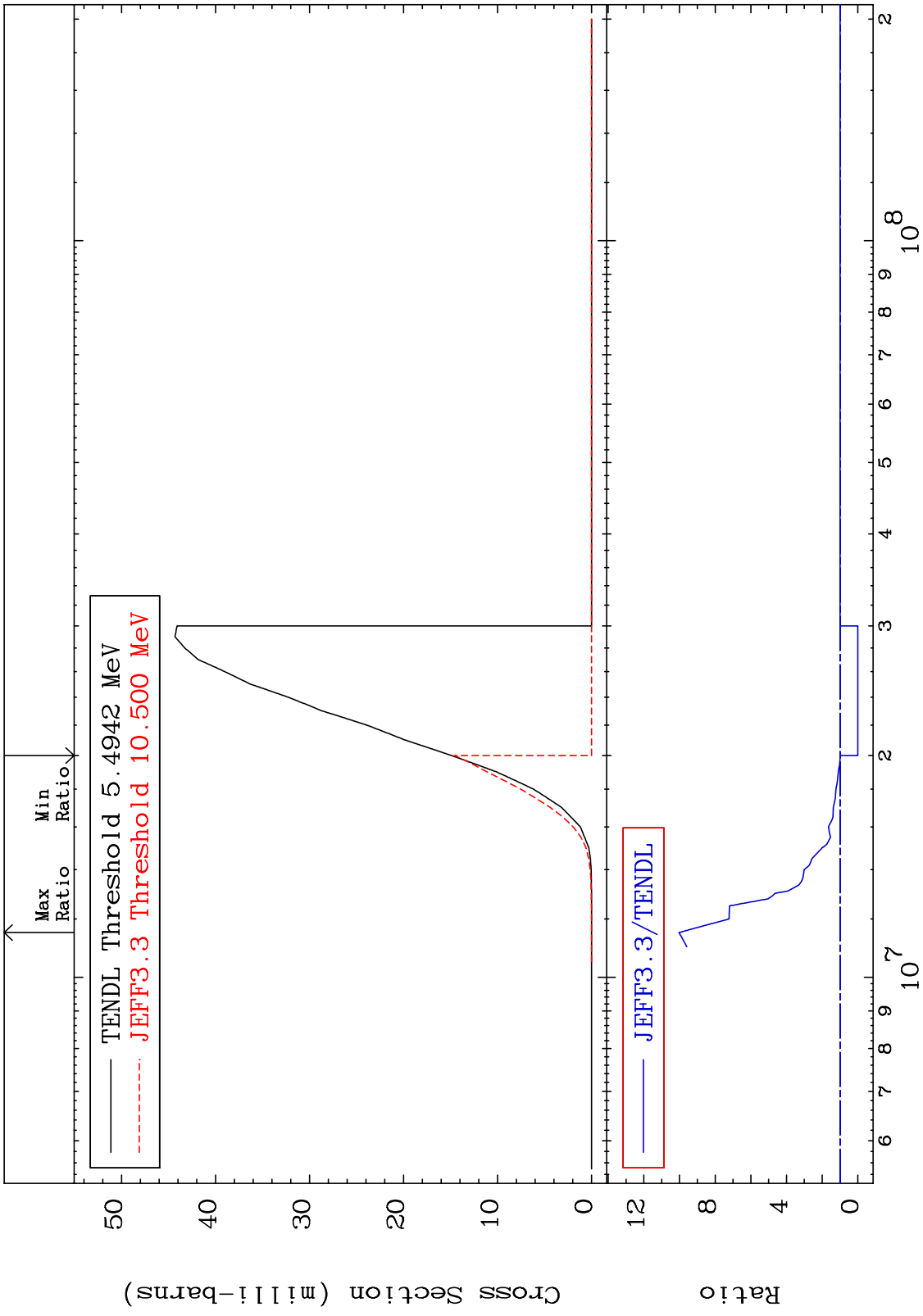
MAT 4028 40-Zr-91  
-100.0 To 4.811 %  
(n,2n) Cross Section



MAT 4028 (n,3n) 40-Zr-91  
 Cross Section -100.0 To 0.000 %



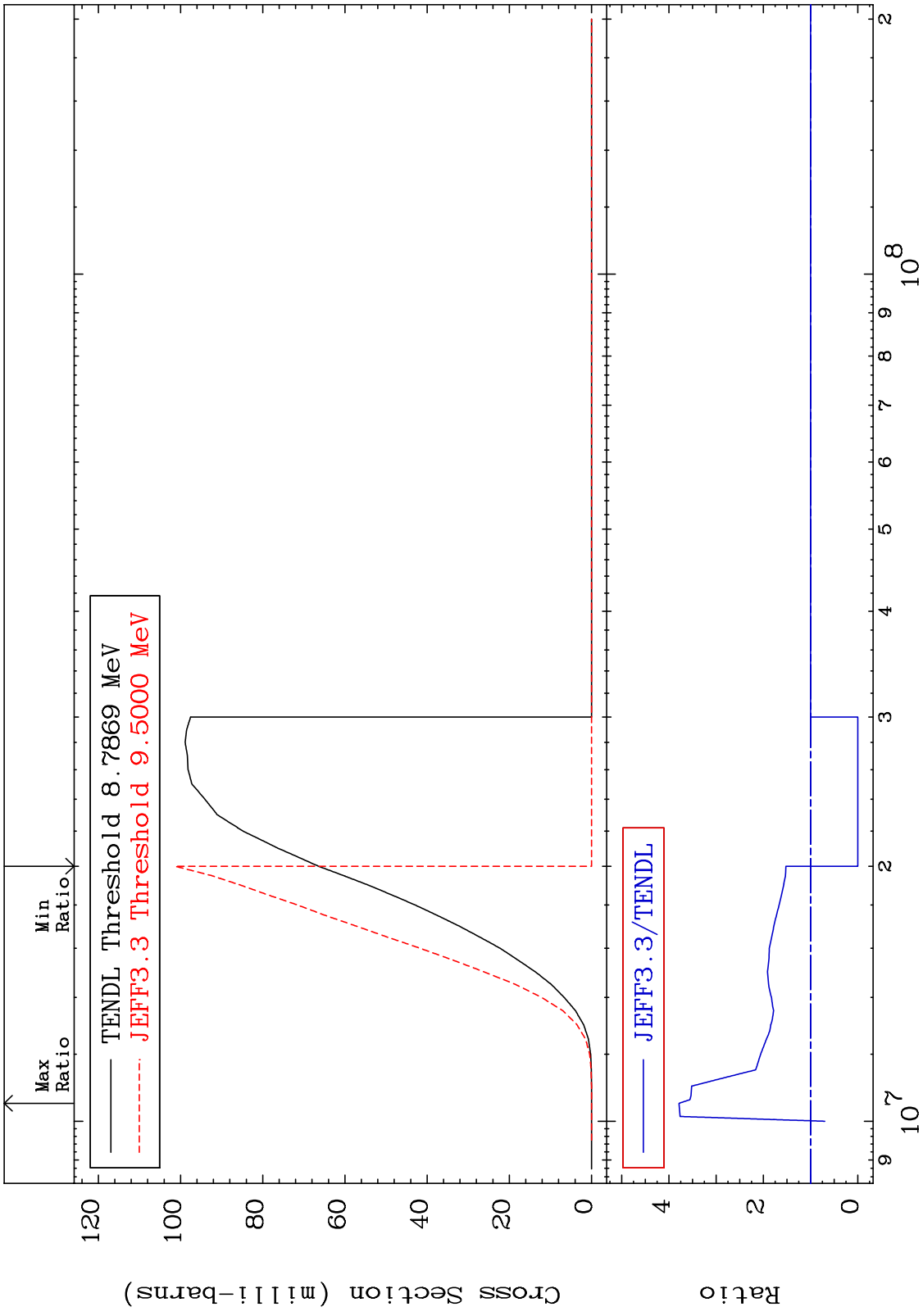
MAT 4028  $(n, n') \alpha$  Cross Section  $^{40}\text{Zr-91}$   
 -100.0 To 902.6 %



7 40-Zr-91

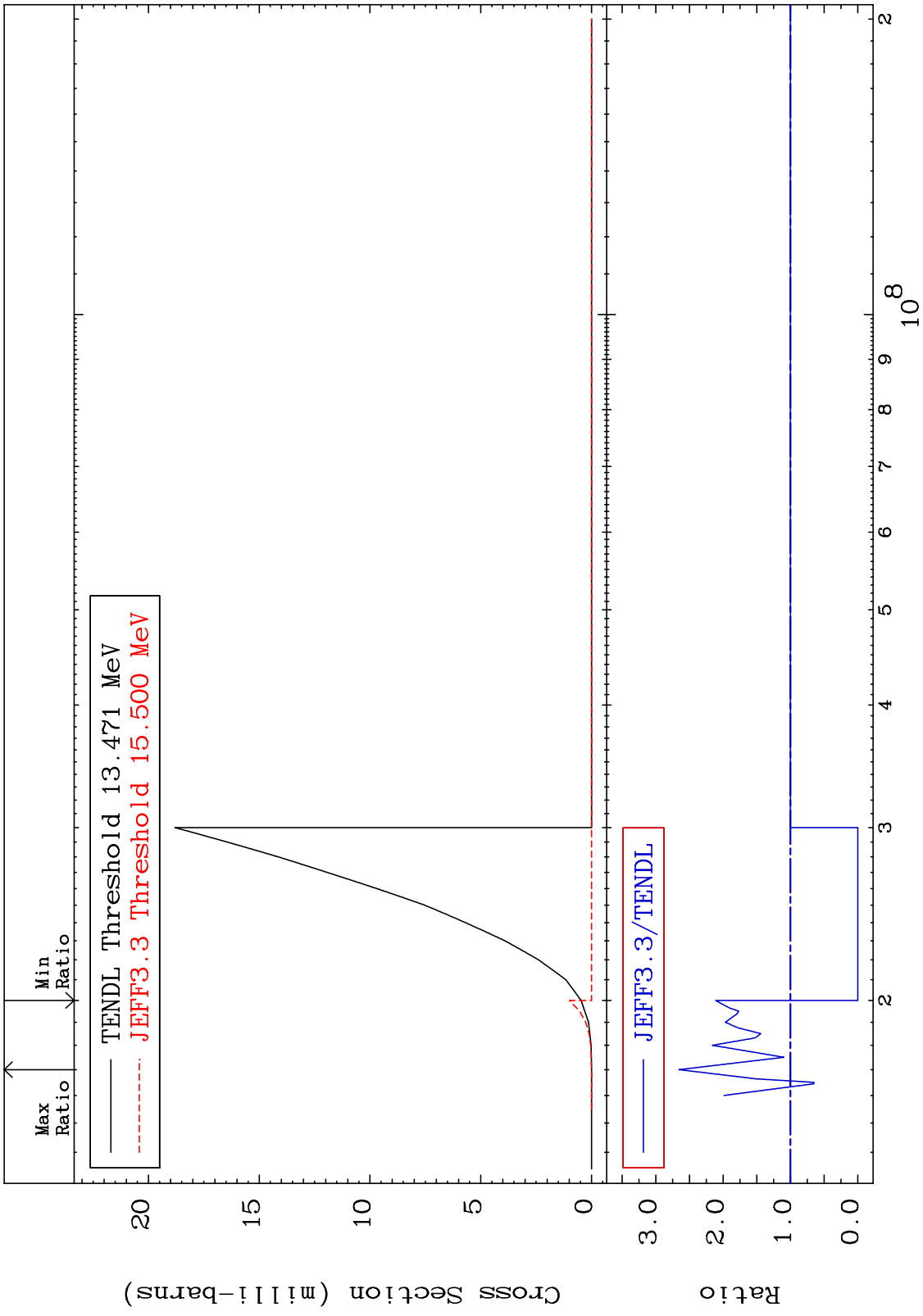


MAT 4028 (n,n') p 40-Zr-91  
 Cross Section -100.0 To 278.7 %

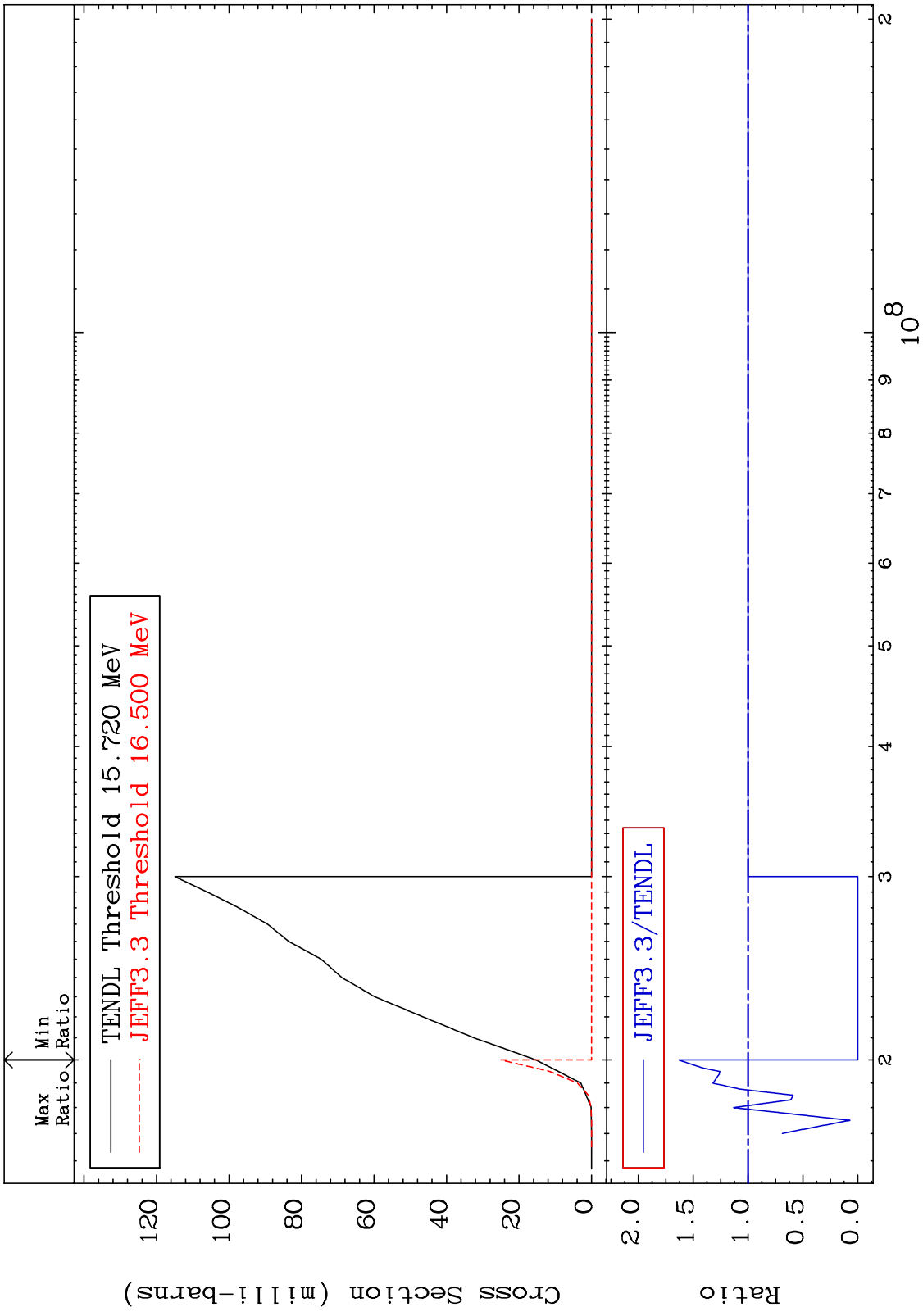


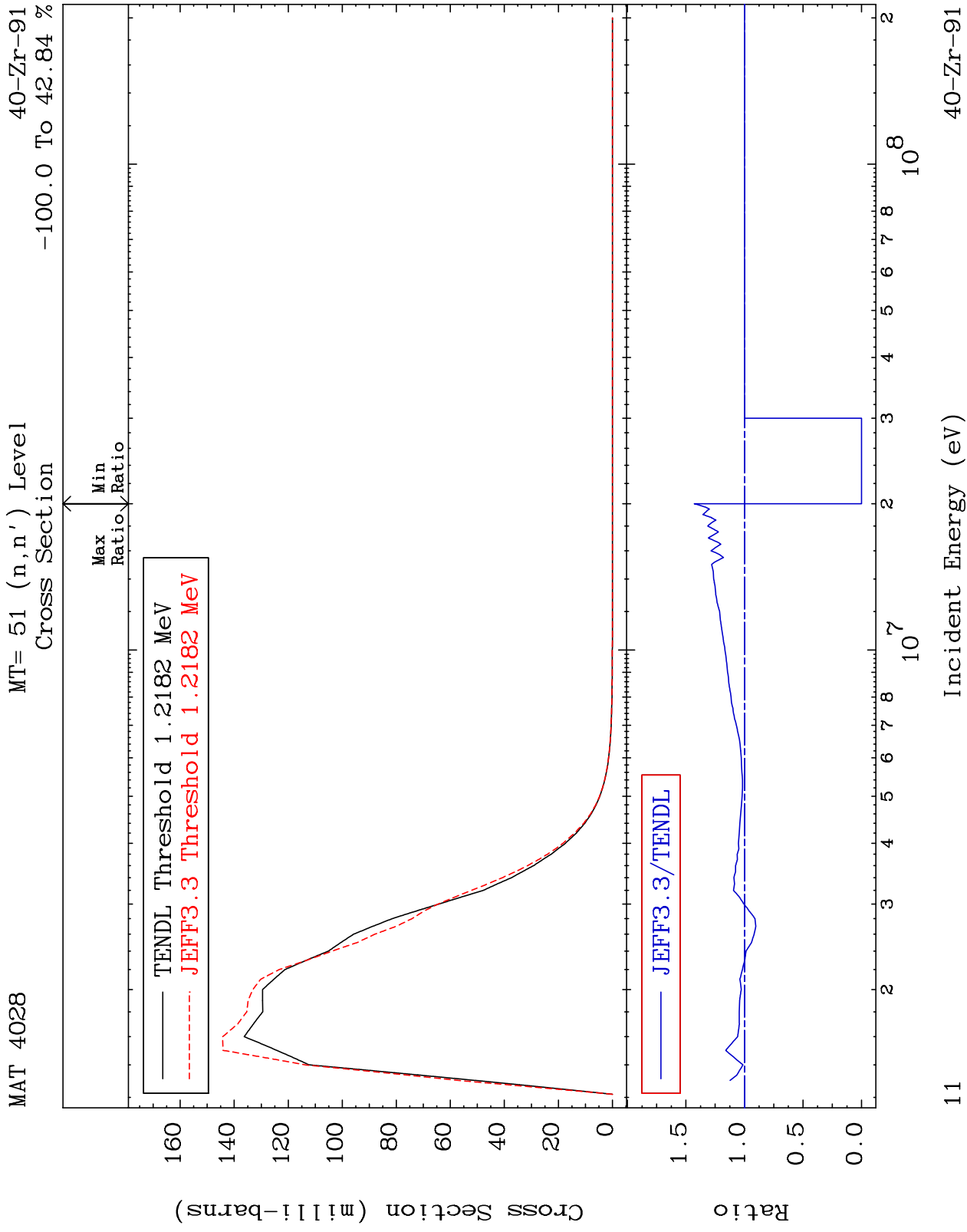
40-Zr-91 Incident Energy (eV)

MAT 4028 (n, n') d 40-Zr-91  
 Cross Section -100.0 To 165.4 %

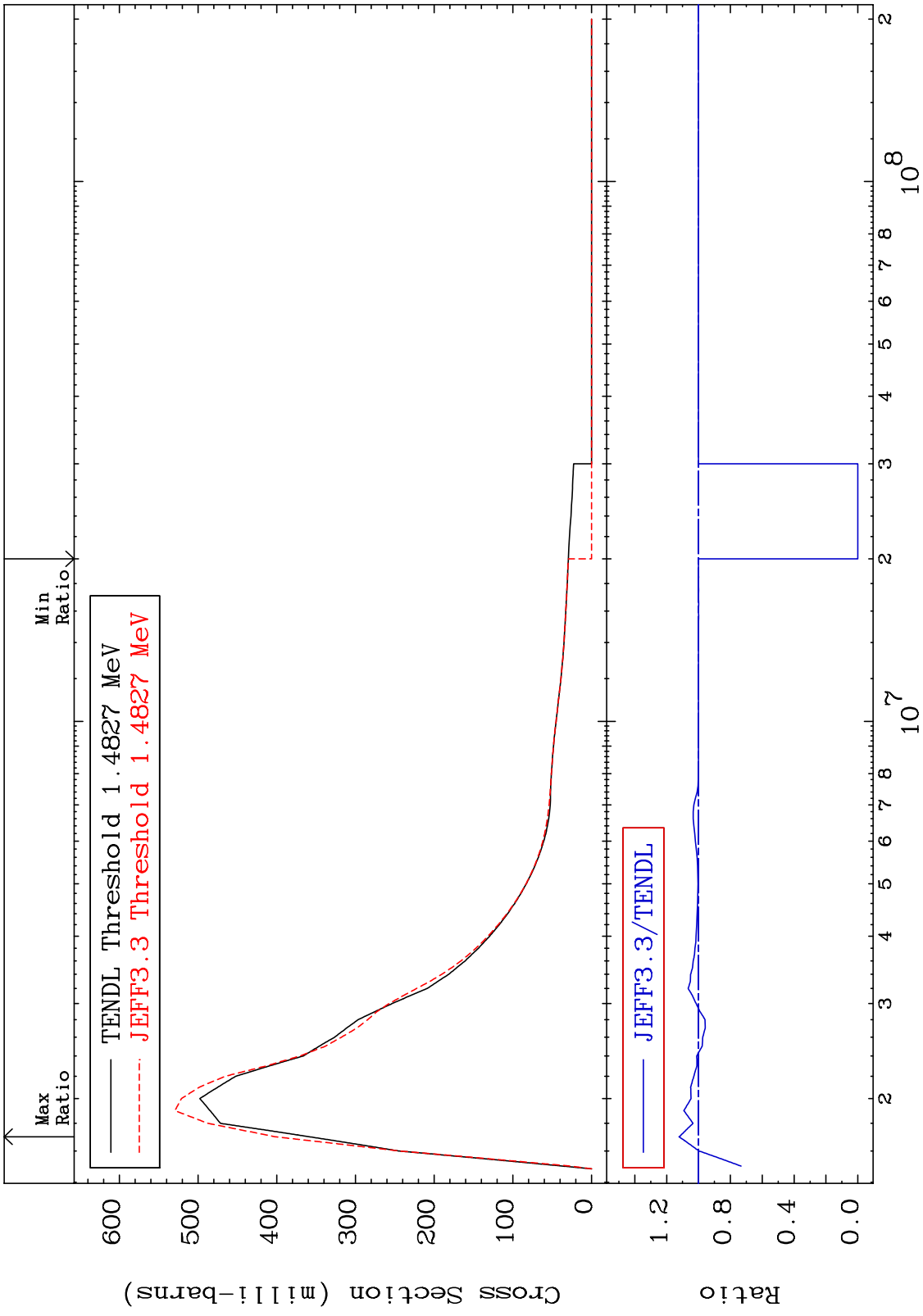


MAT 4028 (n,2n) p 40-Zr-91  
 Cross Section -100.0 To 62.96 %

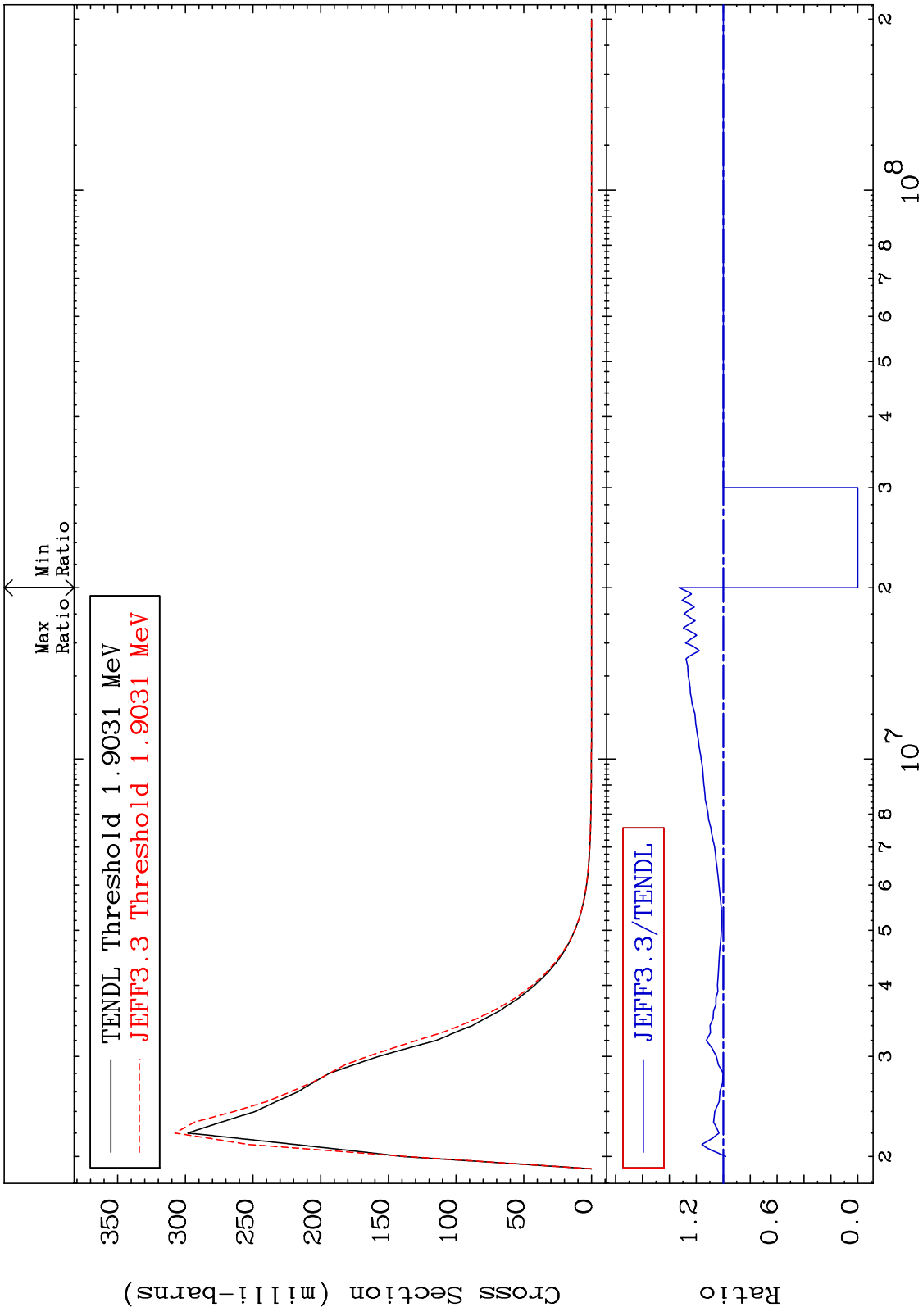




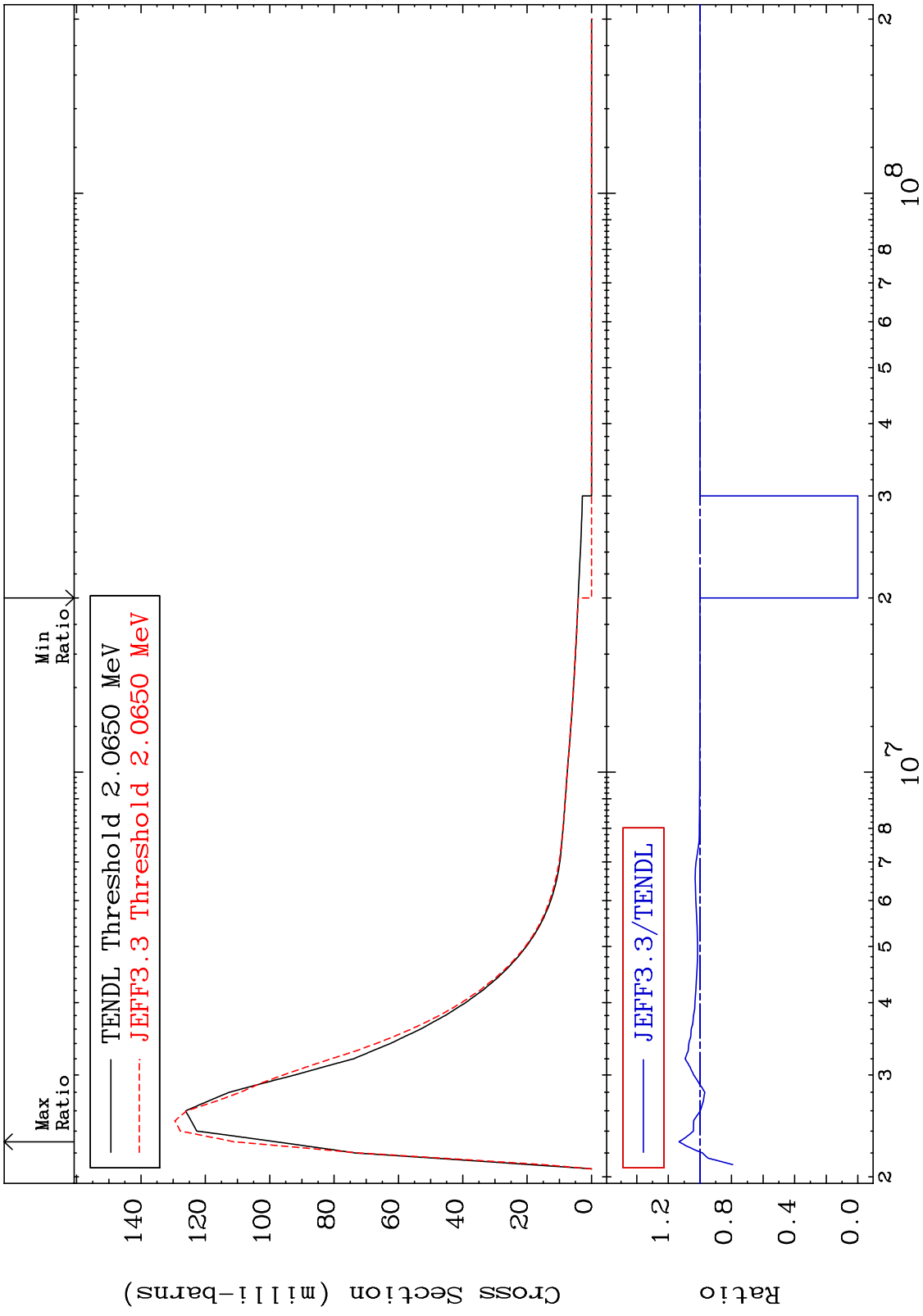
MAT 4028 MT= 52 (n,n') Level Cross Section -100.0 To 12.21 % 40-Zr-91



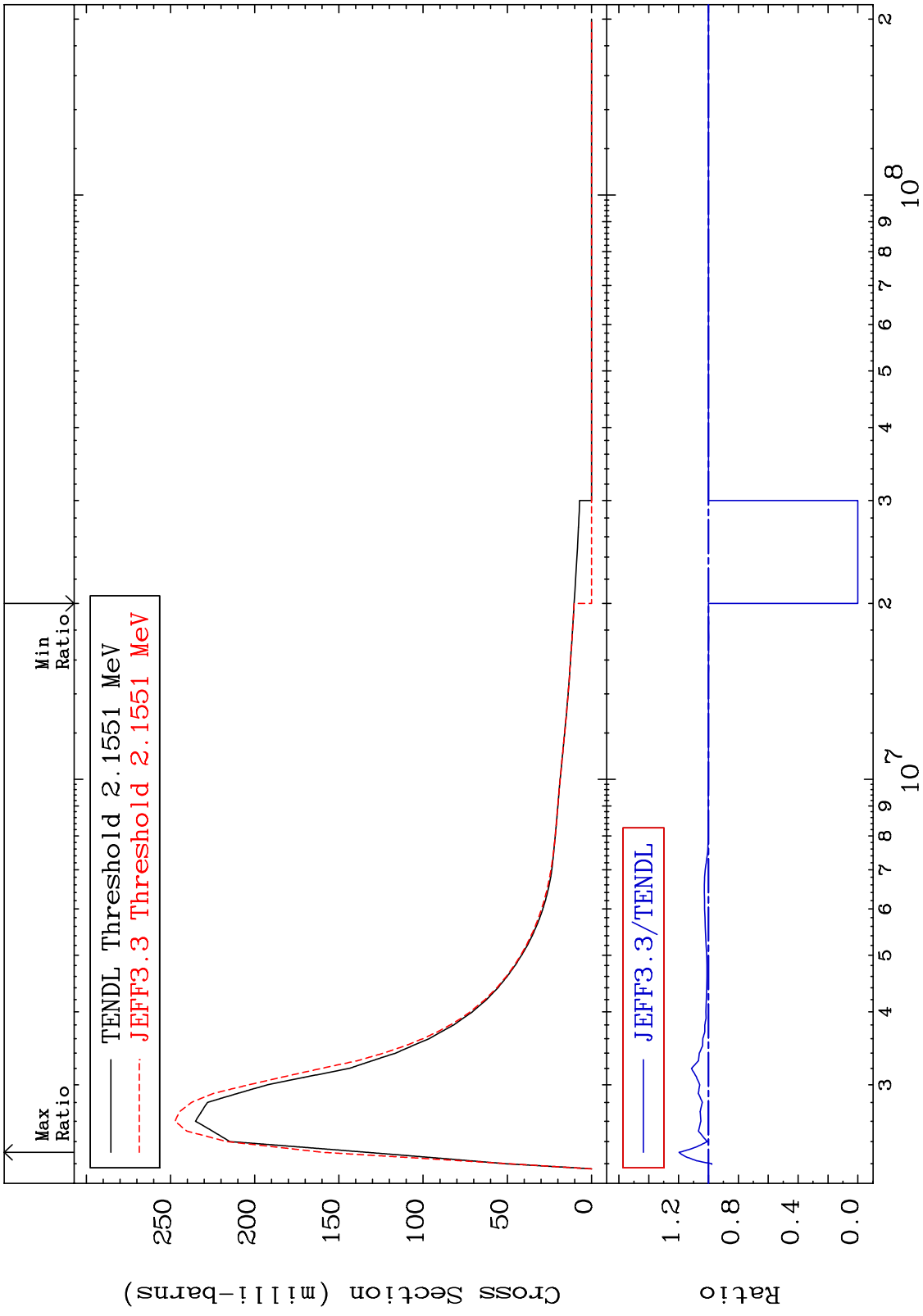
MAT 4028 MT= 53 (n,n') Level Cross Section -100.0 To 32.86 % 40-Zr-91



MAT 4028 MT= 54 (n,n') Level Cross Section -100.0 To 13.22 % 40-Zr-91

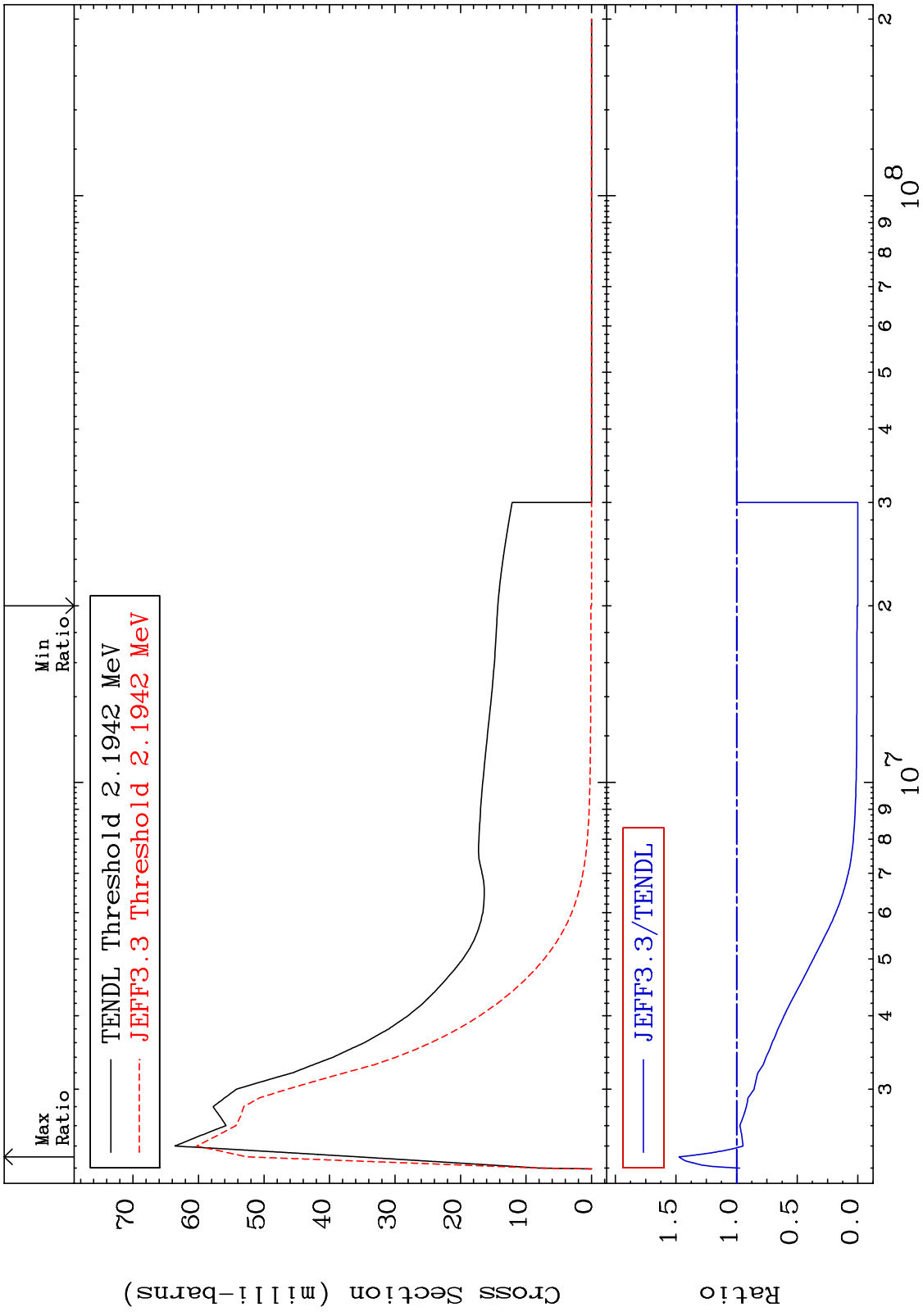


MAT 4028 MT= 55 (n,n') Level Cross Section -100.0 To 19.73 % 40-Zr-91

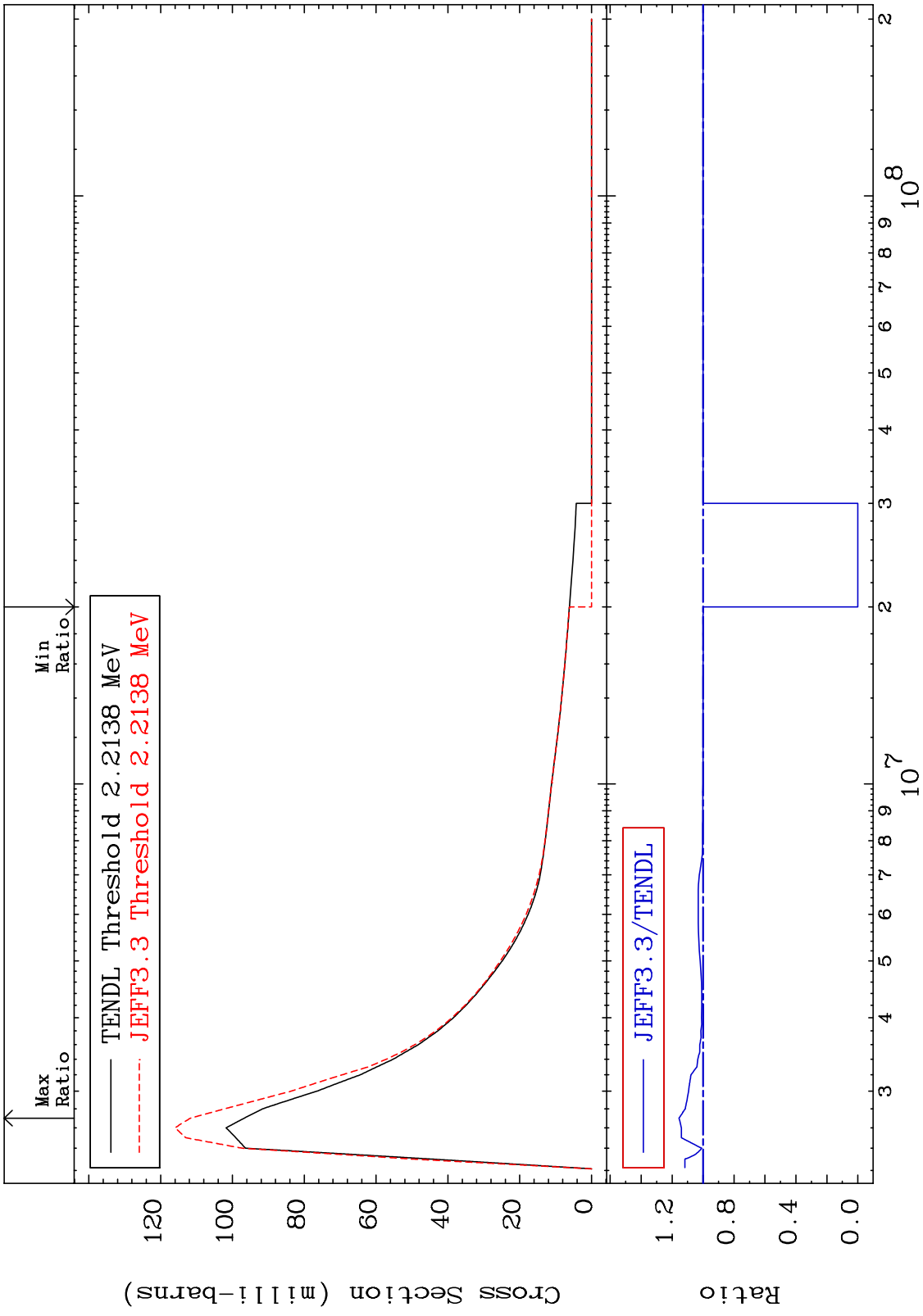


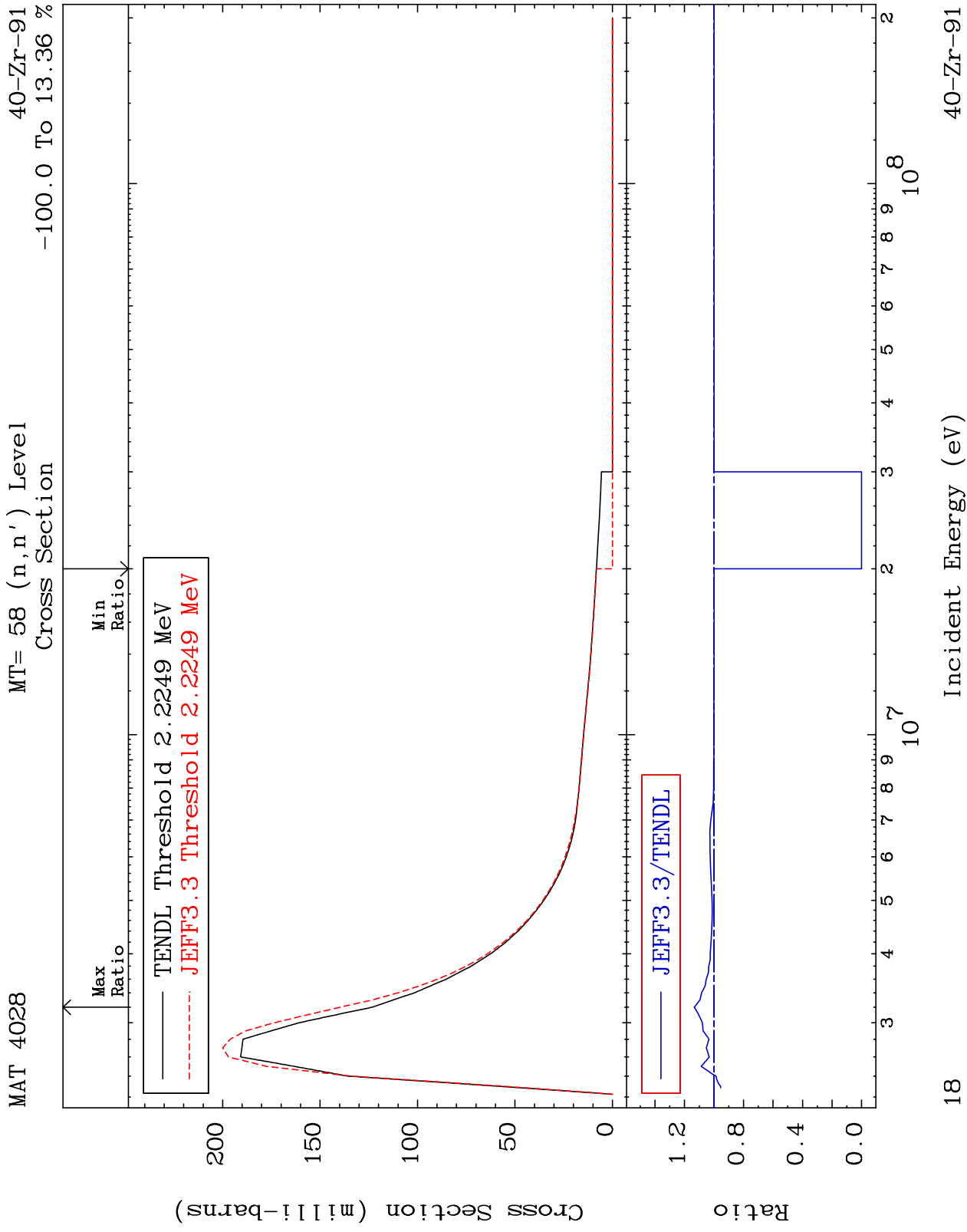


MAT 4028 MT= 56 (n,n') Level Cross Section -100.0 To 47.49 % 40-Zr-91

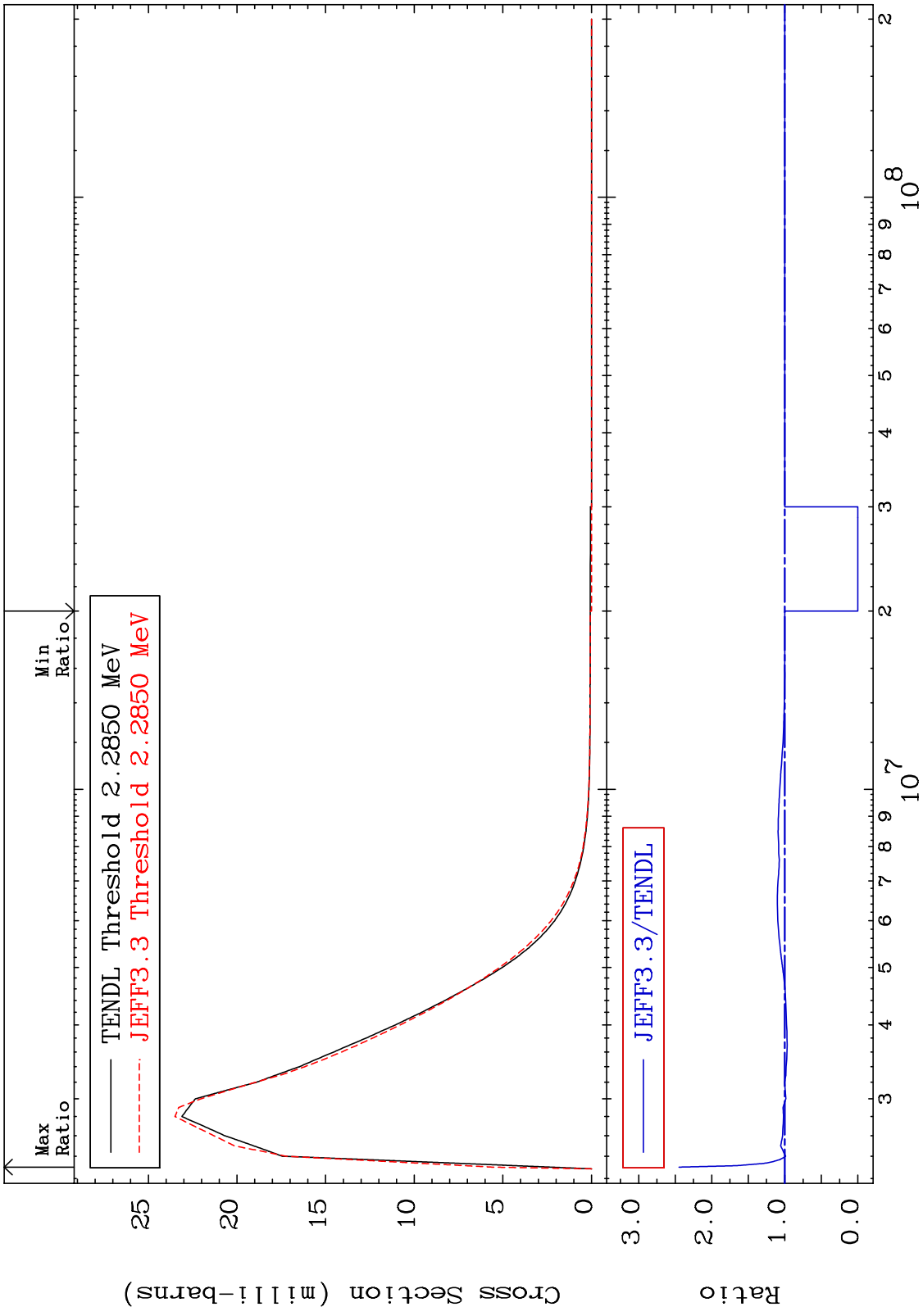


MAT 4028 MT= 57 (n,n') Level Cross Section -100.0 To 15.53 % 40-Zr-91

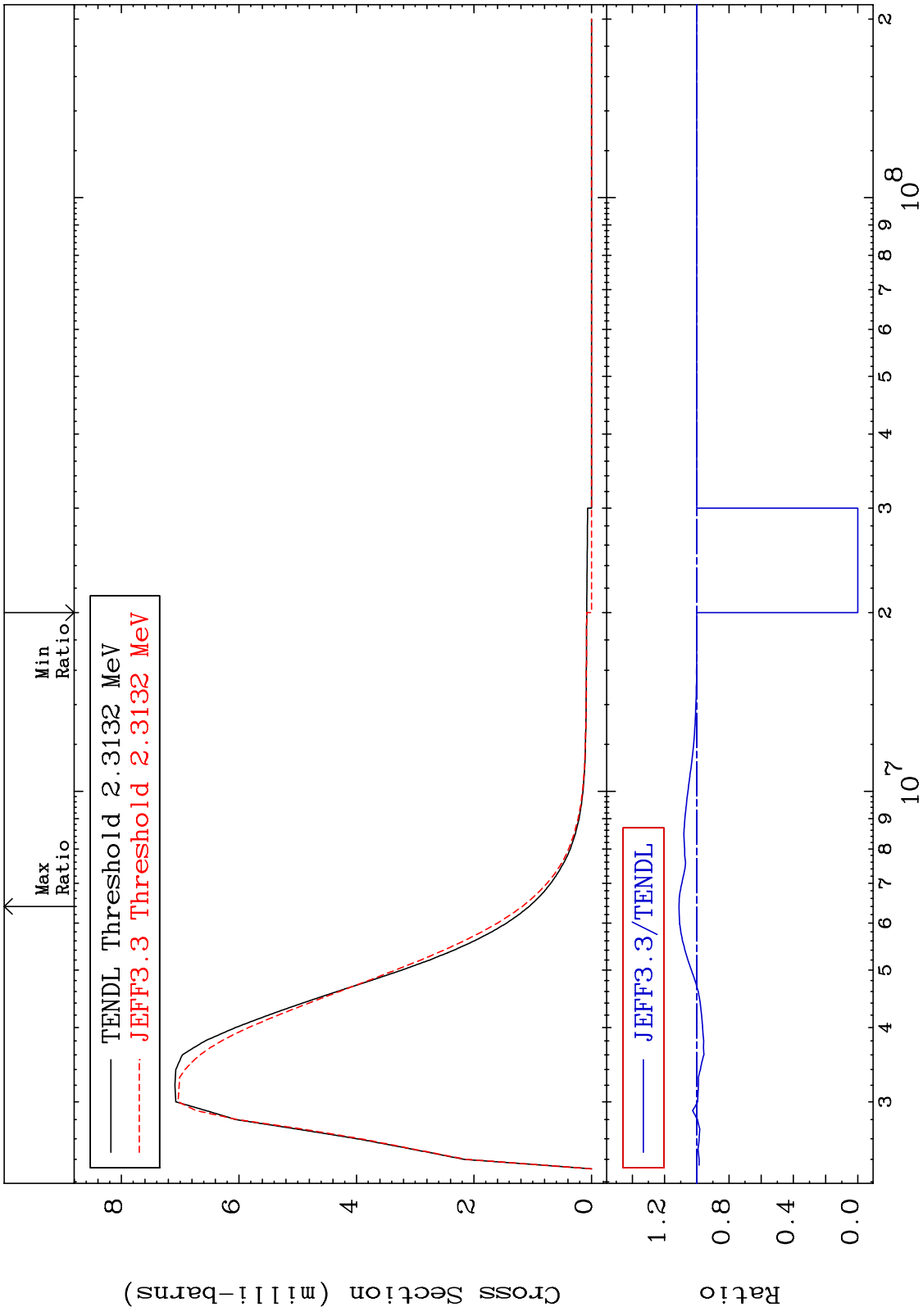




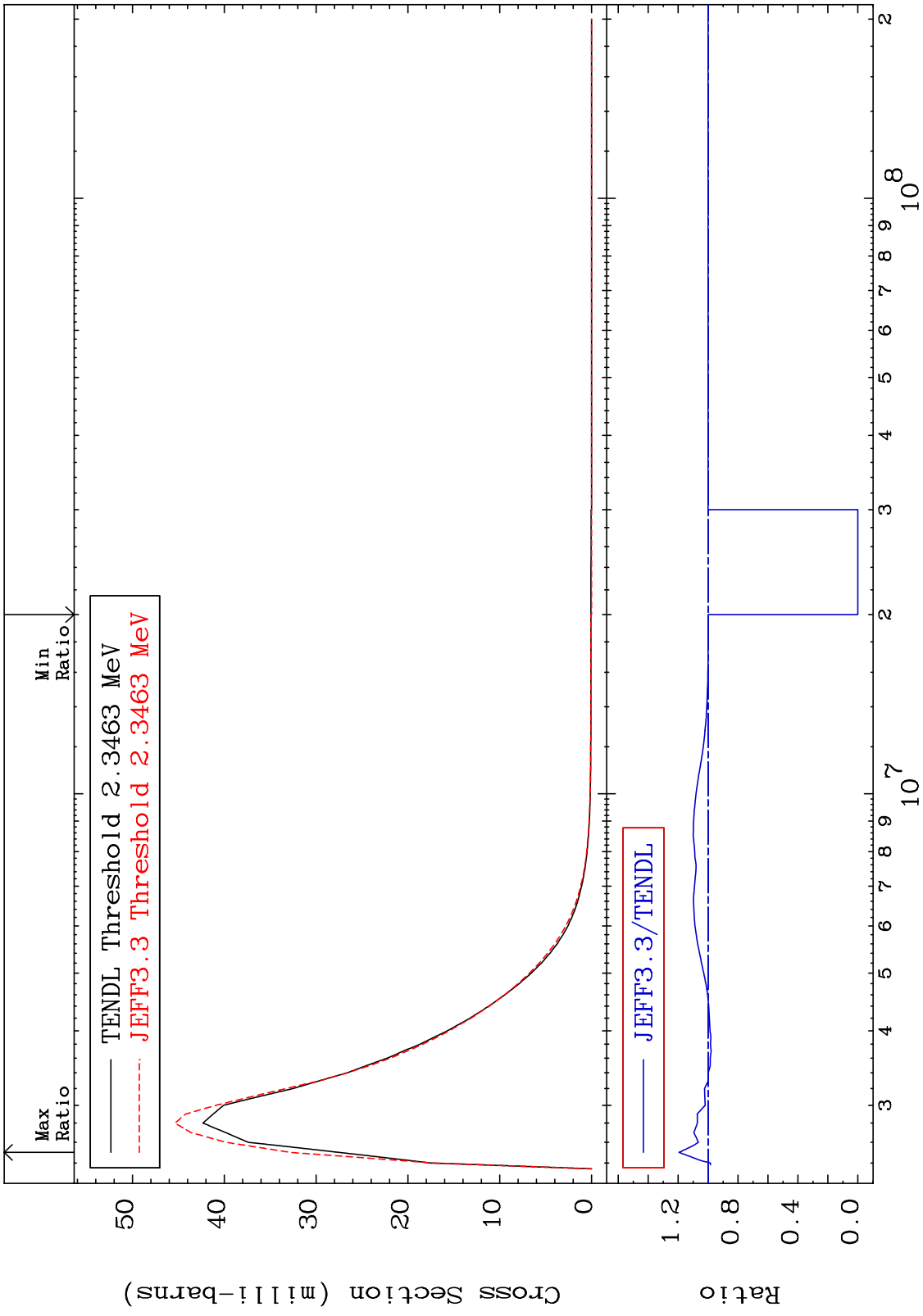
MAT 4028 MT= 59 (n,n') Level Cross Section -100.0 To 144.8 % 40-Zr-91



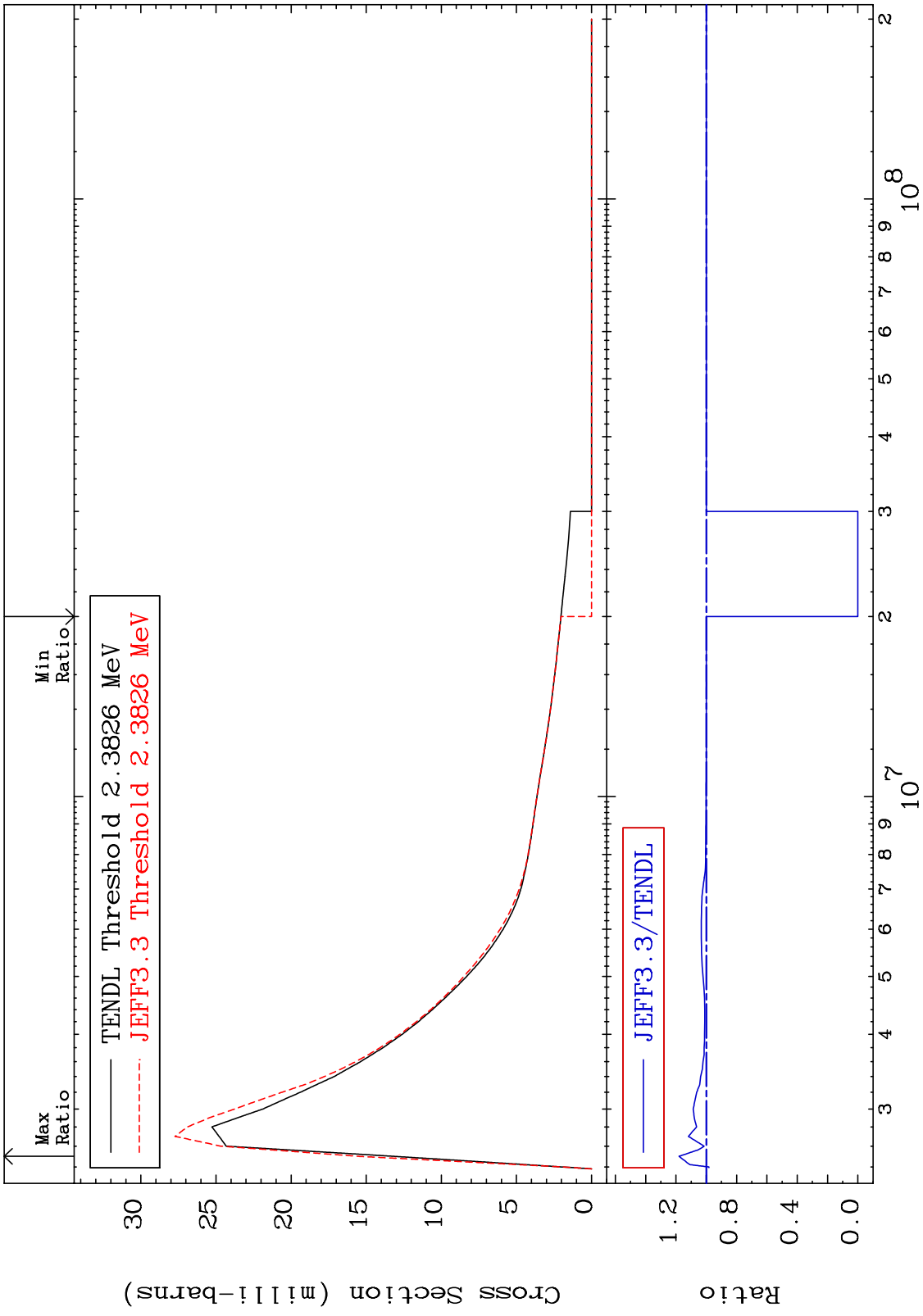
MAT 4028 MT= 60 (n,n') Level Cross Section -100.0 To 11.00 % 40-Zr-91



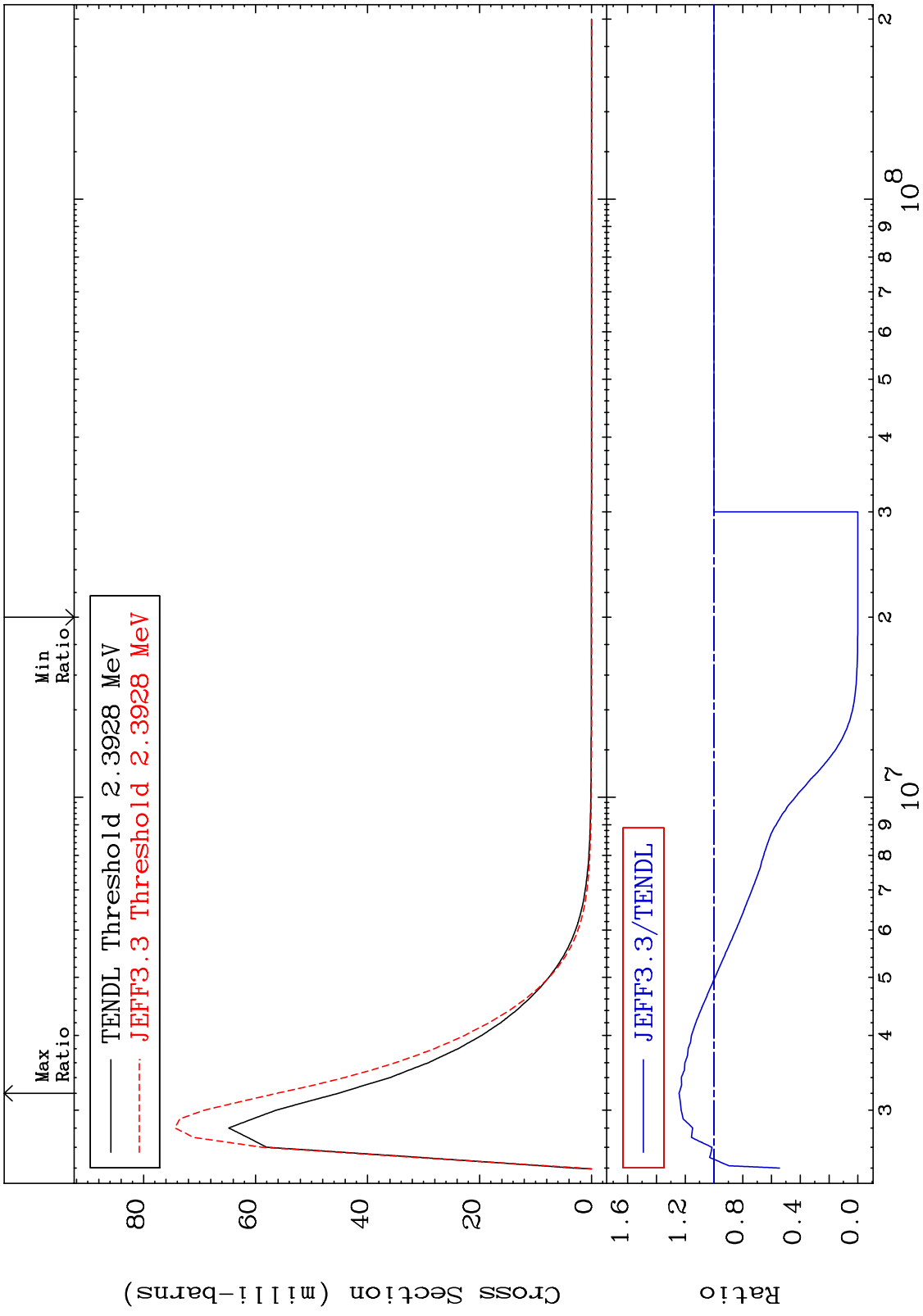
MAT 4028 MT= 61 (n,n') Level Cross Section -100.0 To 19.41 % 40-Zr-91



MAT 4028 MT= 62 (n,n') Level Cross Section -100.0 To 17.99 % 40-Zr-91

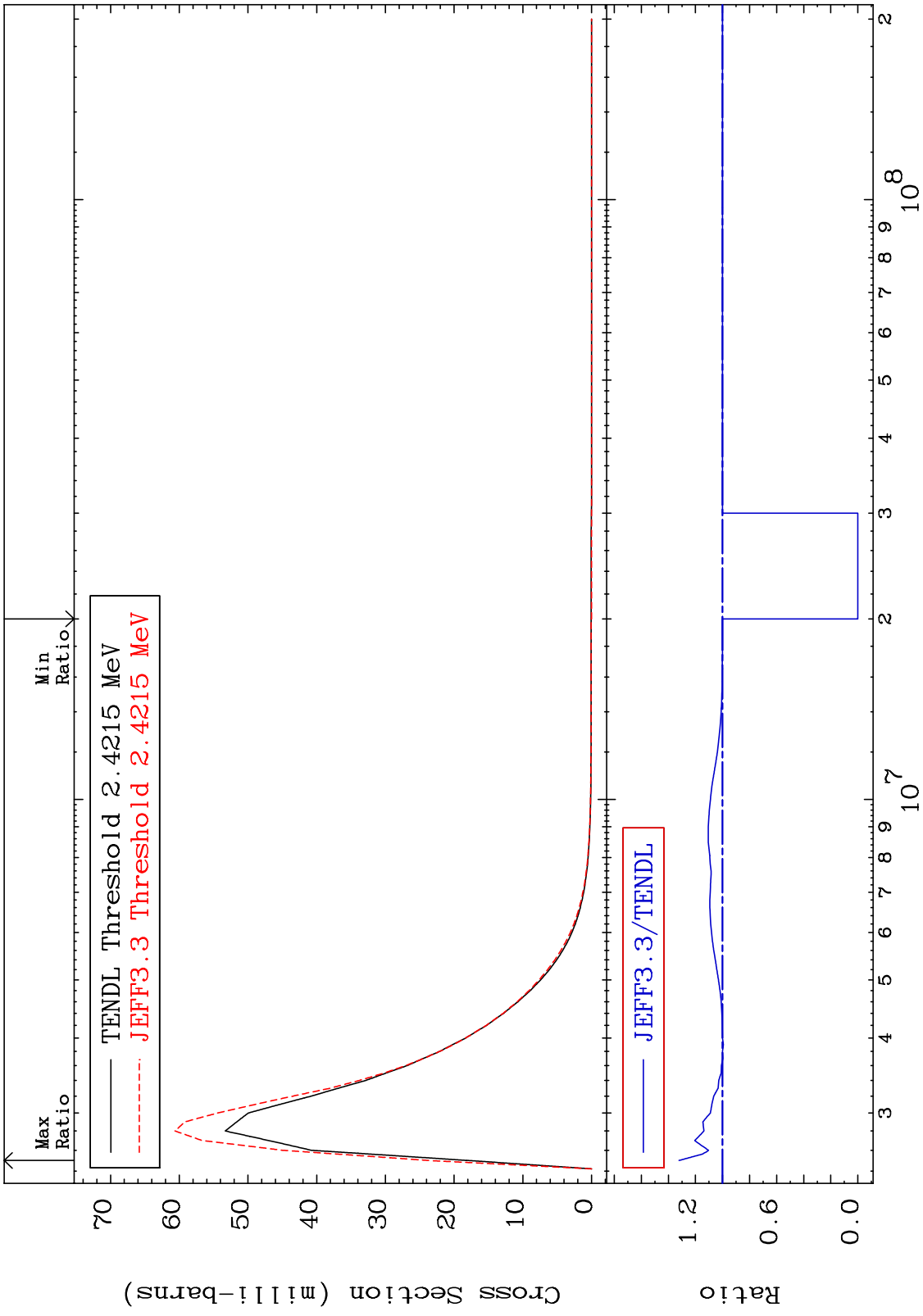


MAT 4028 MT= 63 (n,n') Level Cross Section -100.0 To 24.29 % 40-Zr-91

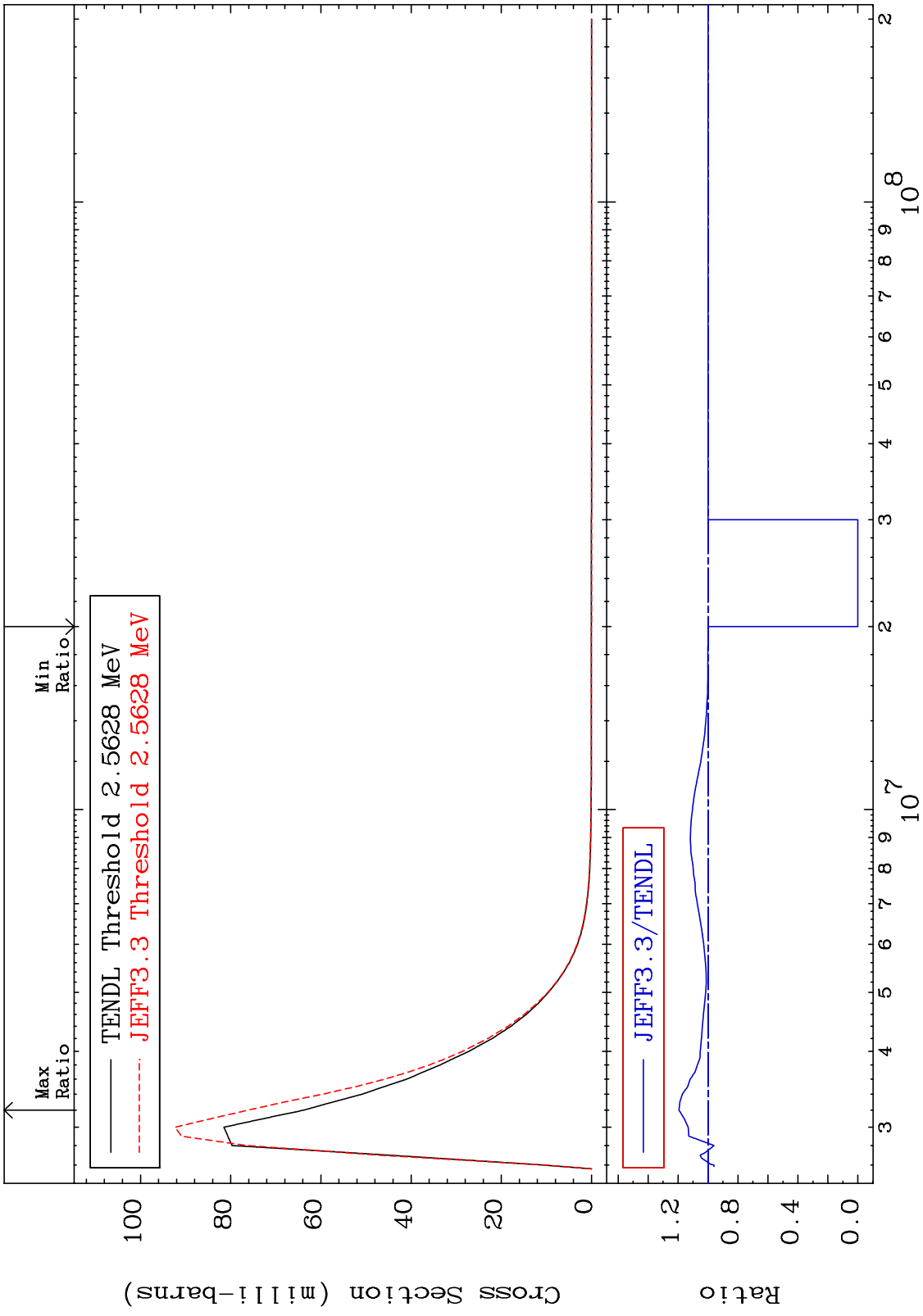




MAT 4028 MT= 64 (n,n') Level Cross Section -100.0 To 32.13 % 40-Zr-91

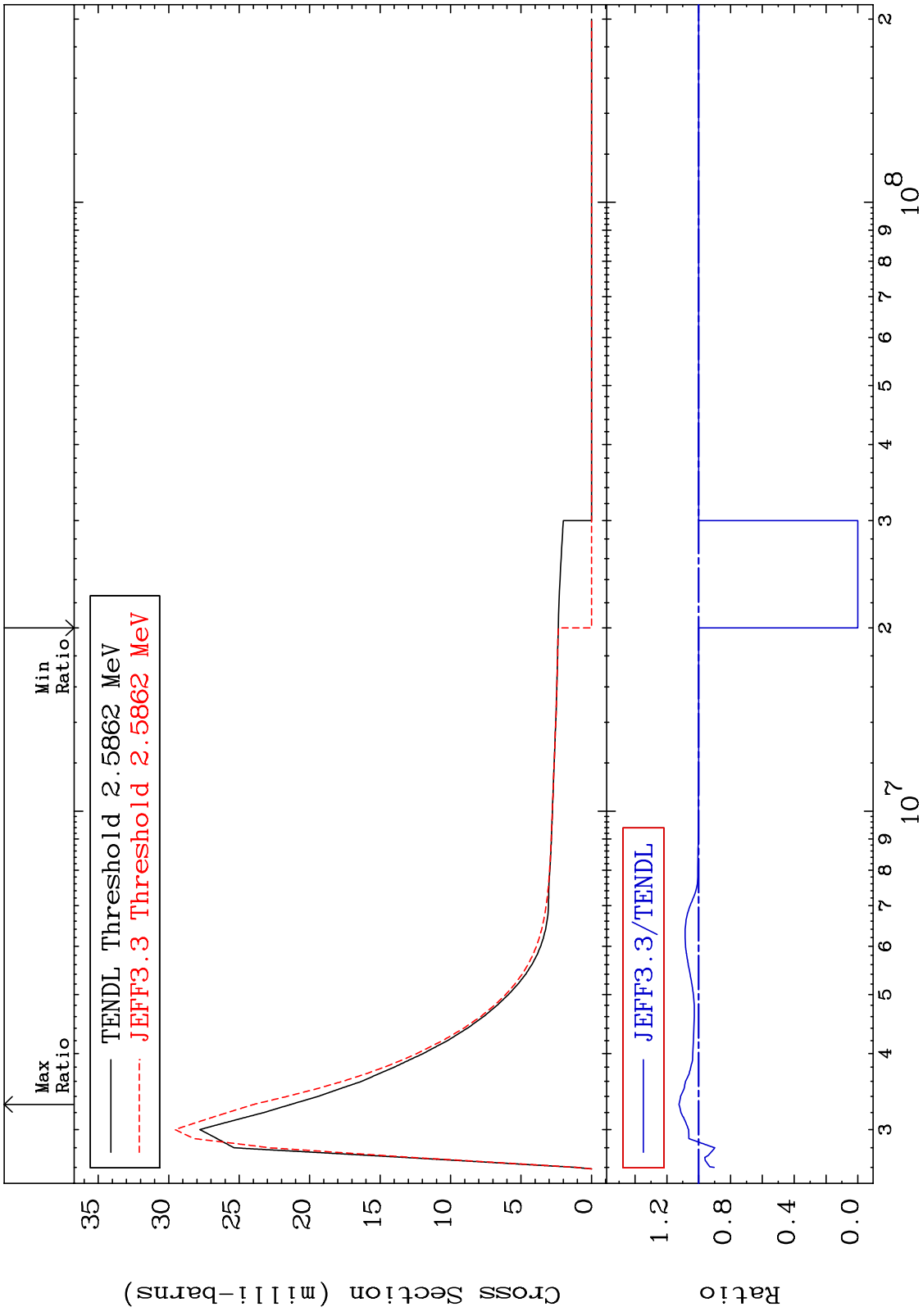


MAT 4028 MT= 65 (n,n') Level Cross Section -100.0 To 19.33 % 40-Zr-91

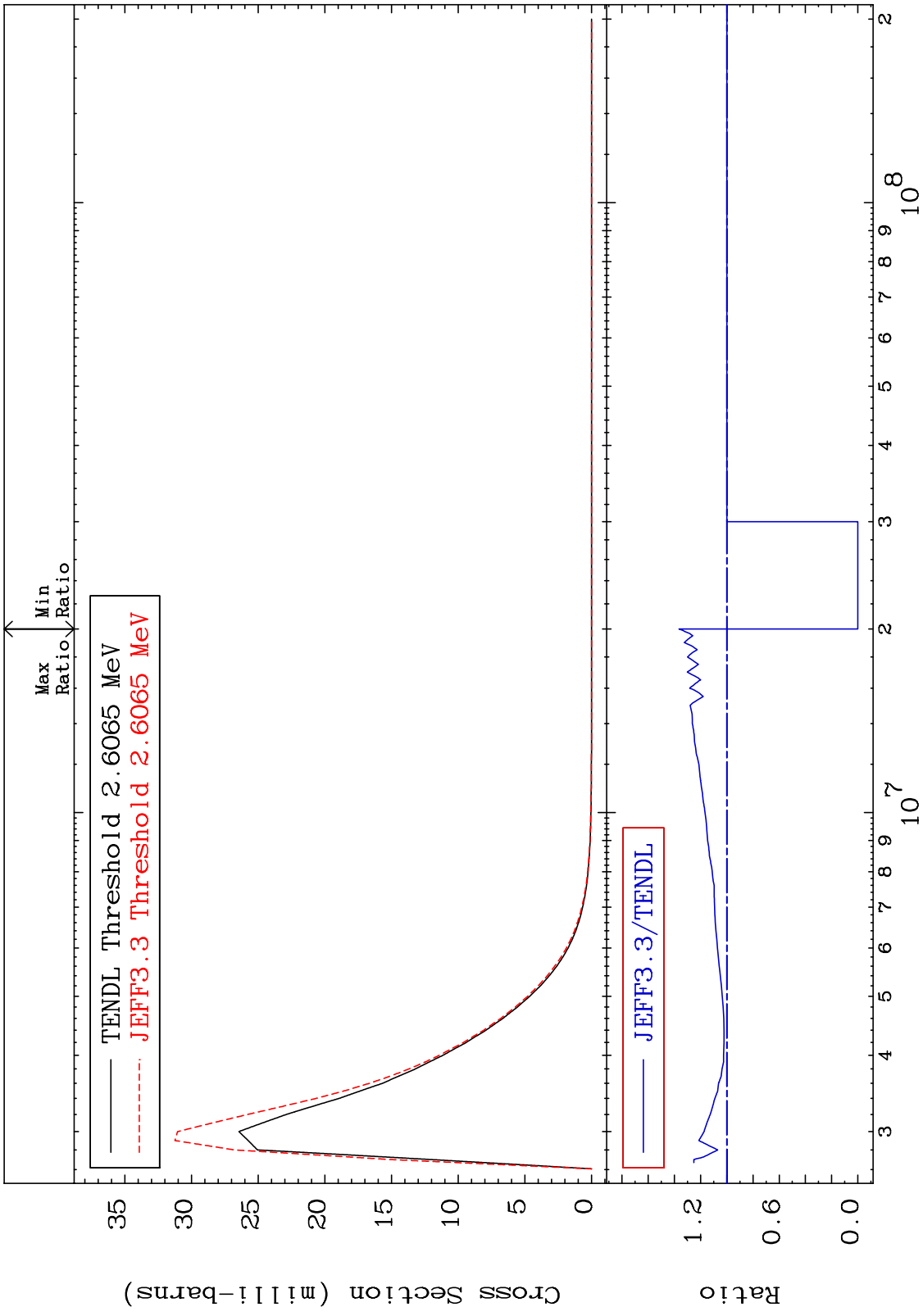


Incident Energy (eV) 40-Zr-91

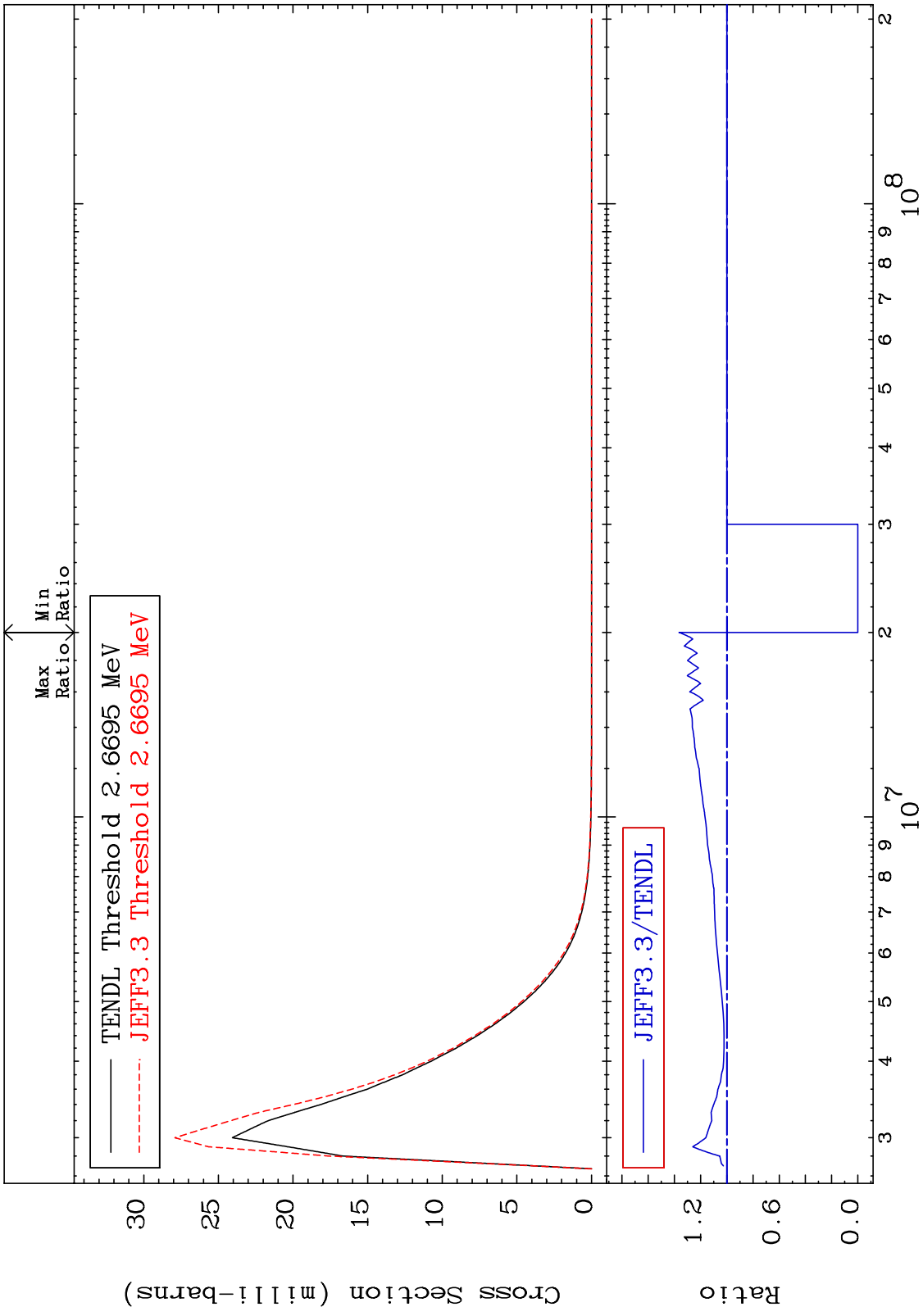
MAT 4028 MT= 66 (n,n') Level Cross Section -100.0 To 12.34 % 40-Zr-91



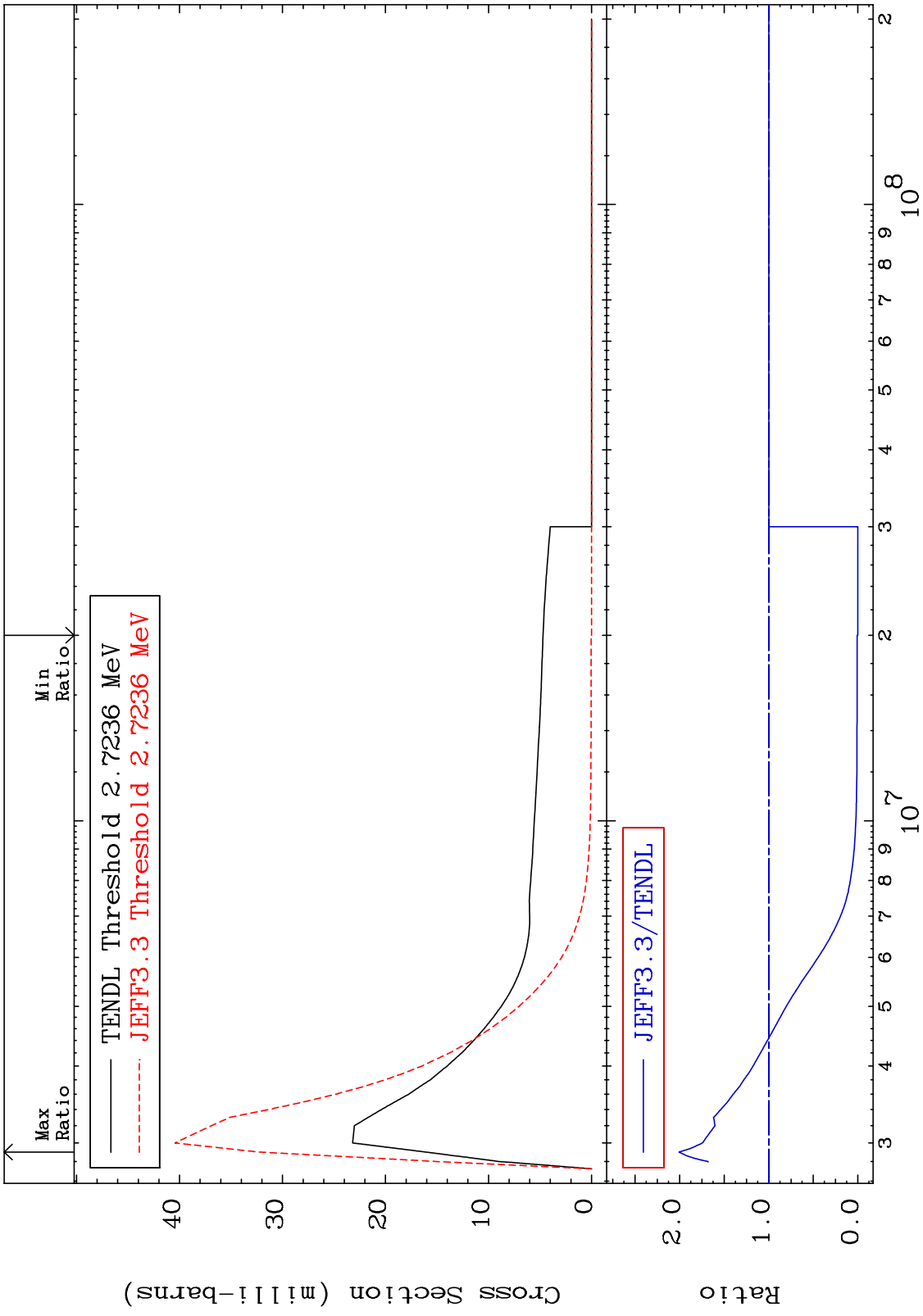
MAT 4028 MT= 67 (n,n') Level Cross Section -100.0 To 36.44 % 40-Zr-91



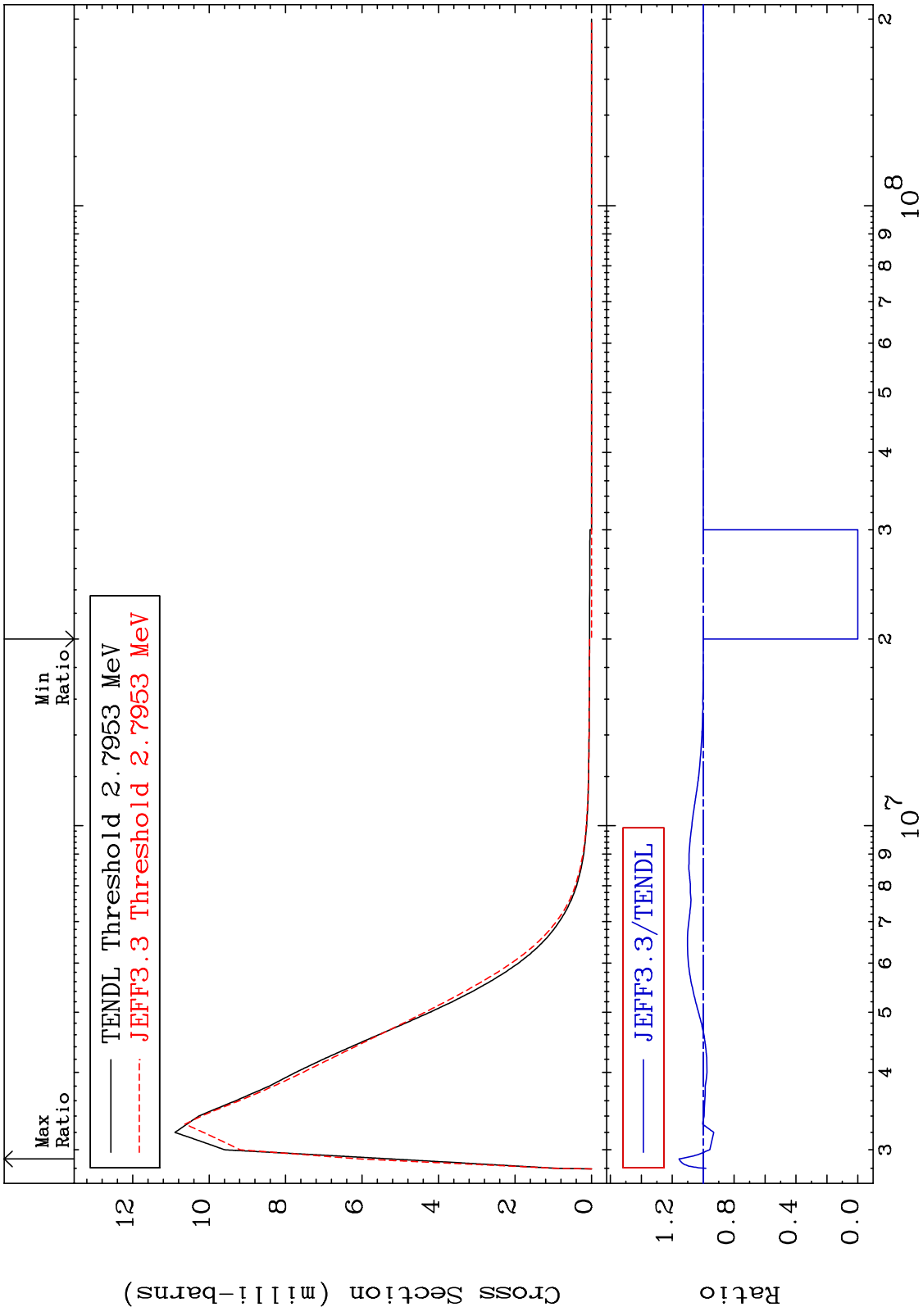
MAT 4028 MT= 68 (n,n') Level Cross Section -100.0 To 36.47 % 40-Zr-91



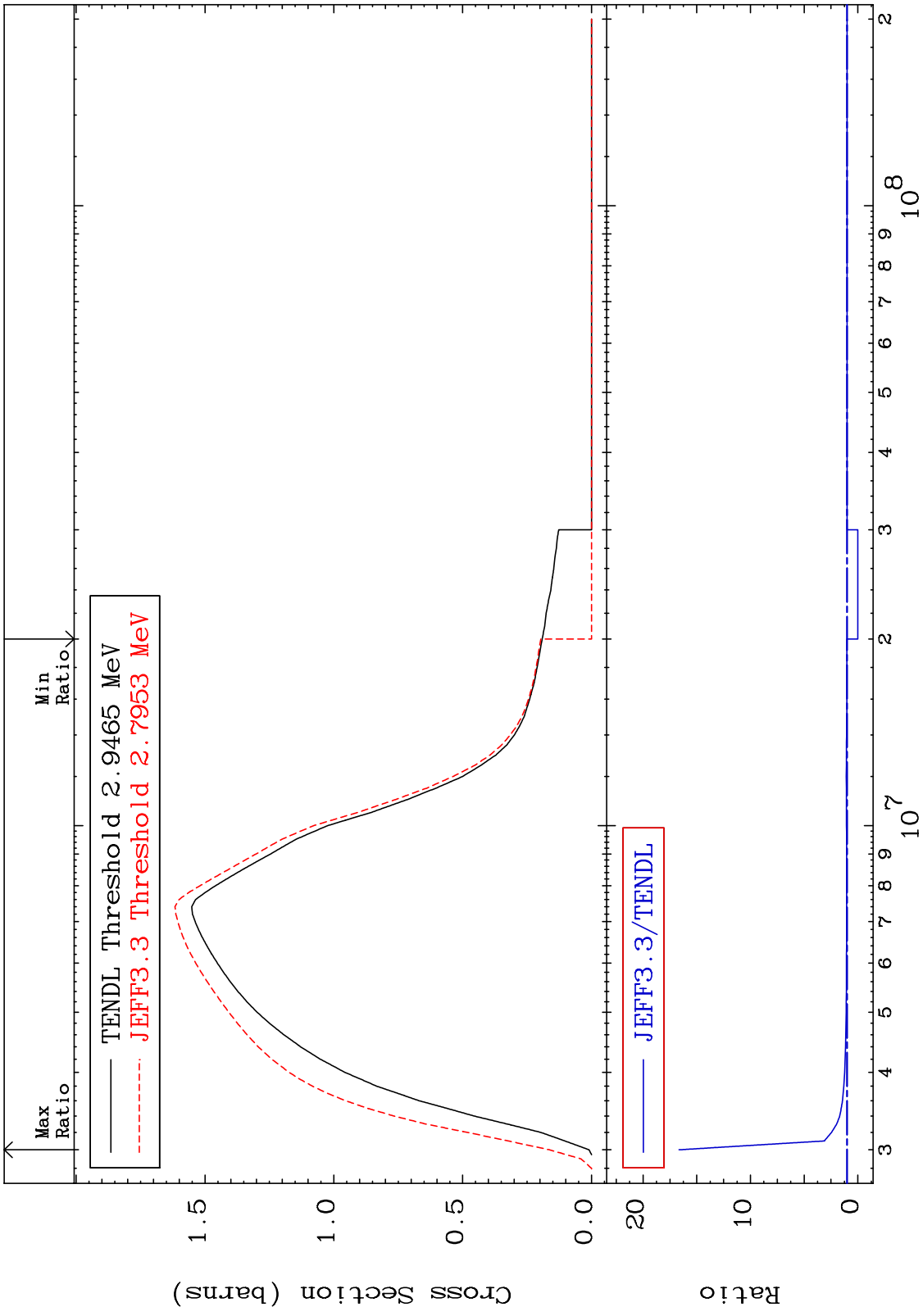
MAT 4028 MT= 69 (n,n') Level Cross Section 40-Zr-91  
 -100.0 To 100.7 %



MAT 4028 MT= 70 (n,n') Level Cross Section -100.0 To 15.63 % 40-Zr-91



MAT 4028 (n,n') Continuum Cross Section -100.0 To 1565. % 40-Zr-91





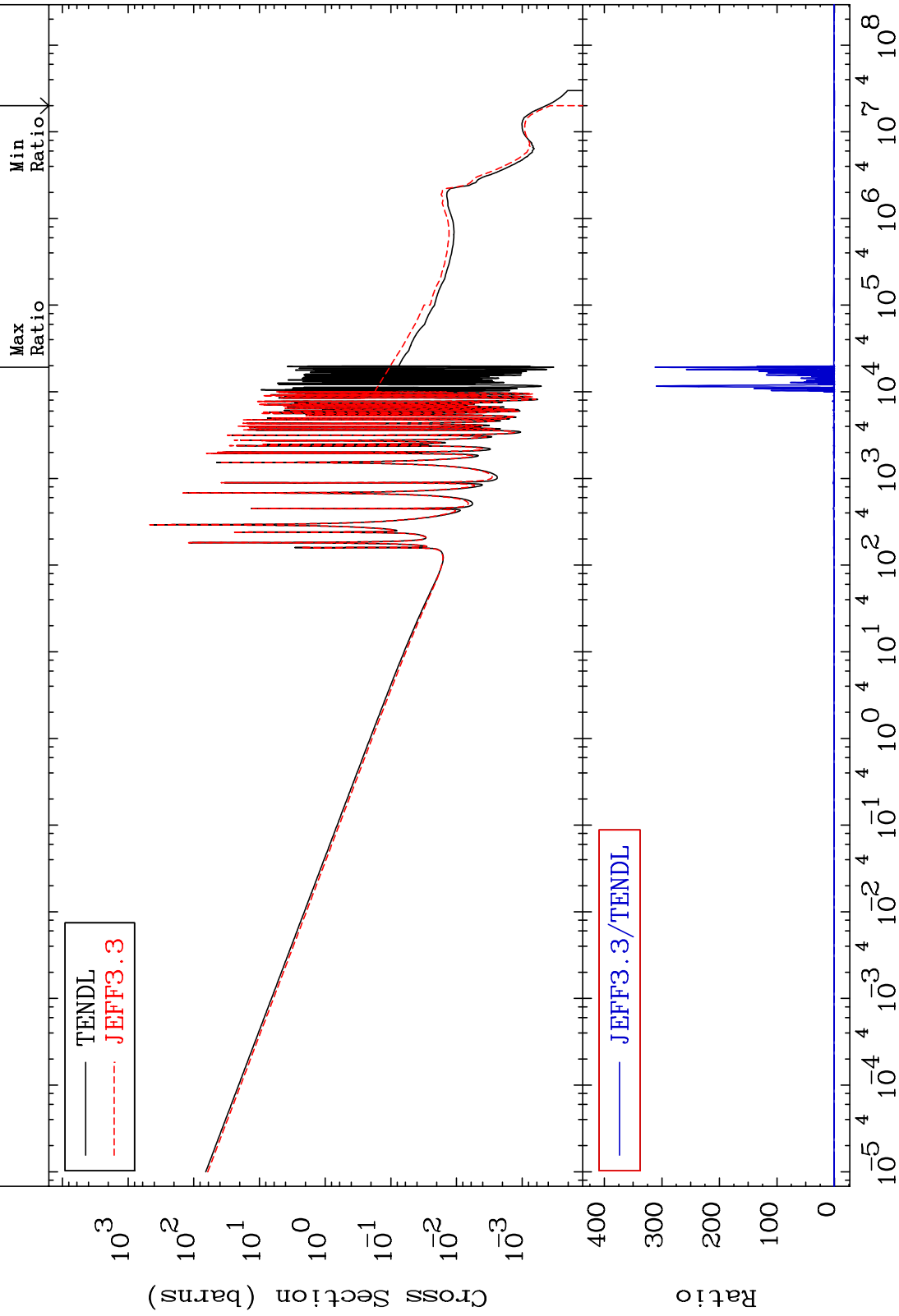
MAT 4028

(n,  $\gamma$ )

40-Zr-91

Cross Section

-100.0 To 9999. %

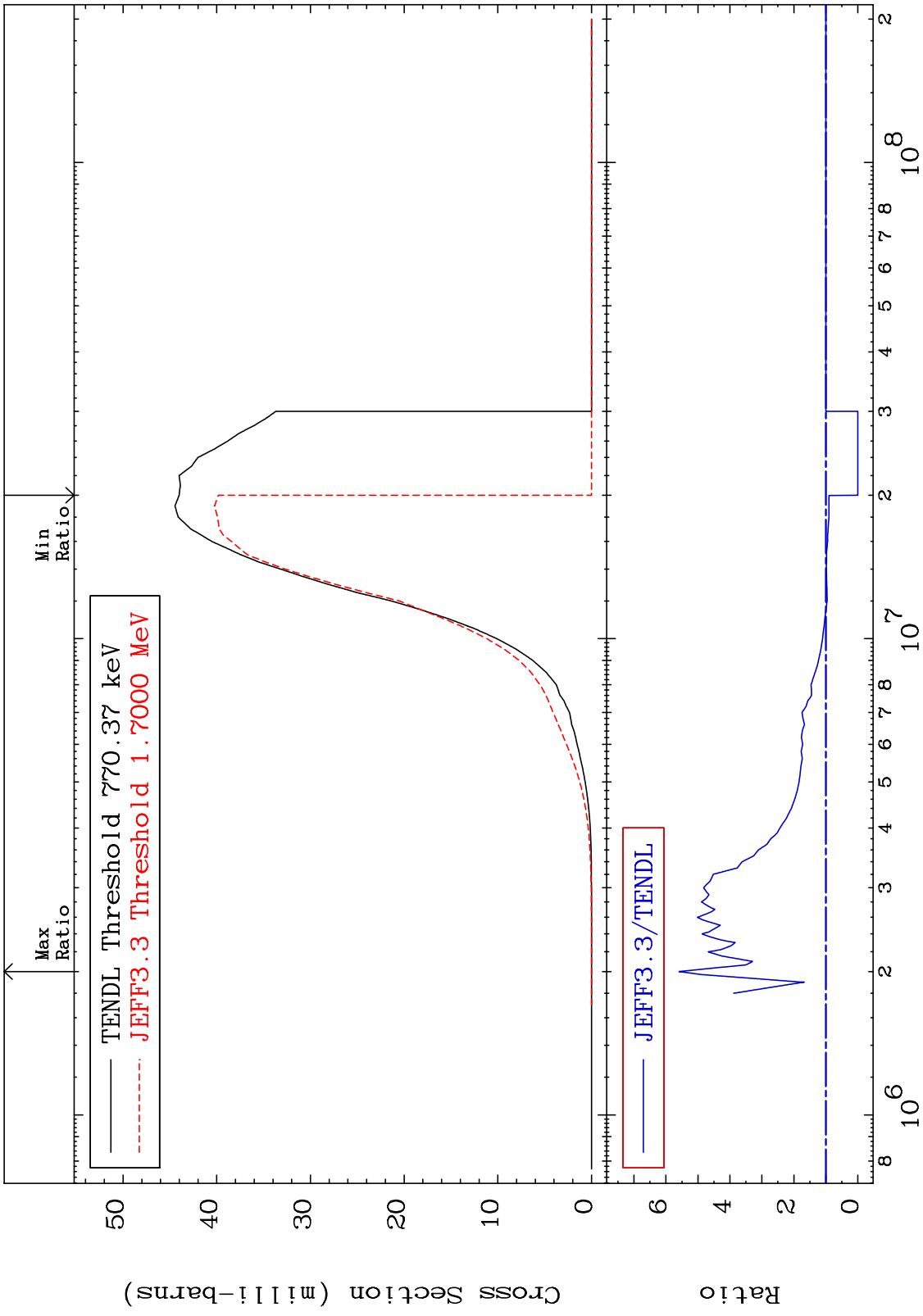


Incident Energy (eV)

40-Zr-91

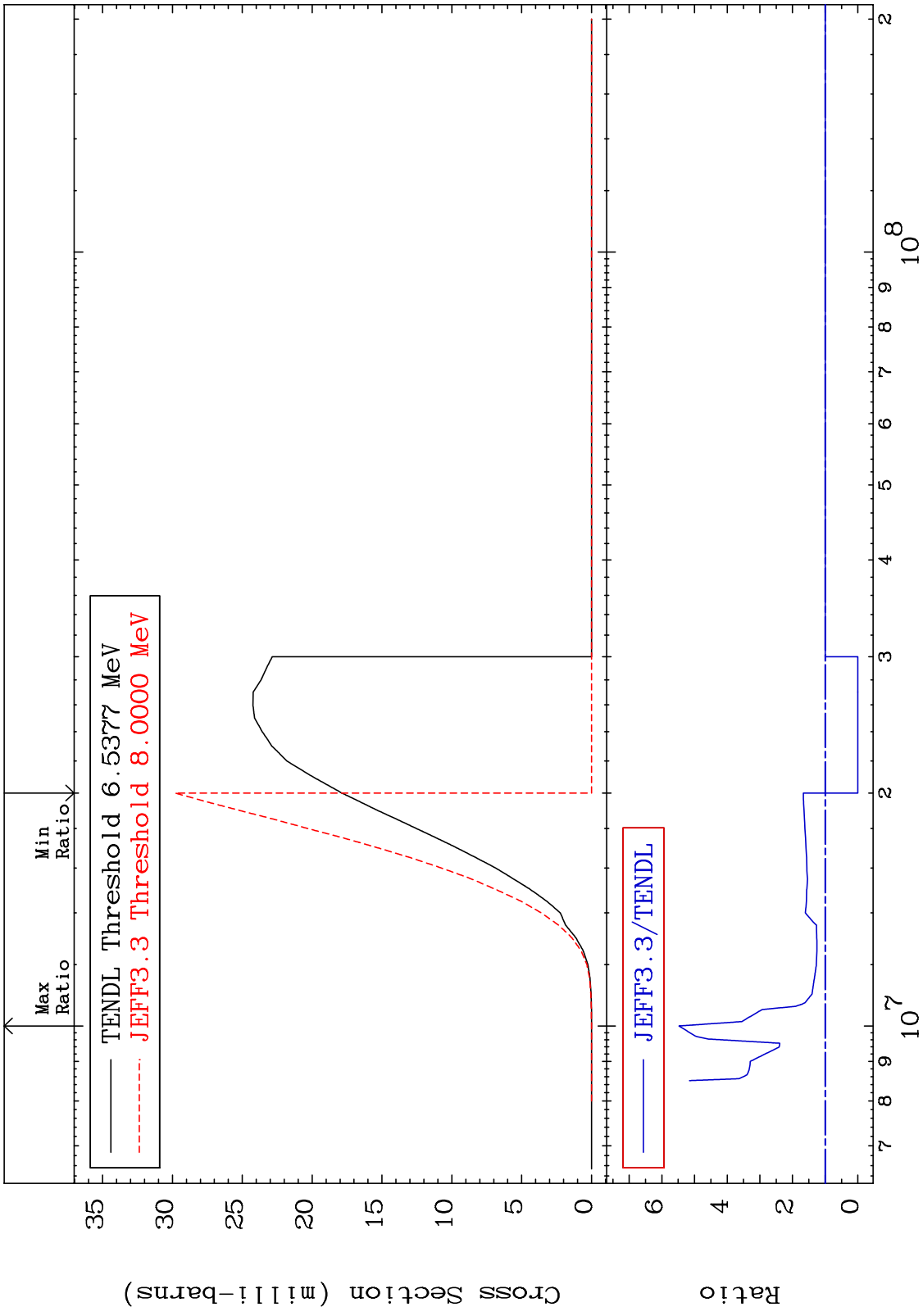
32

MAT 4028 (n,p) Cross Section 40-Zr-91 -100.0 To 459.1 %

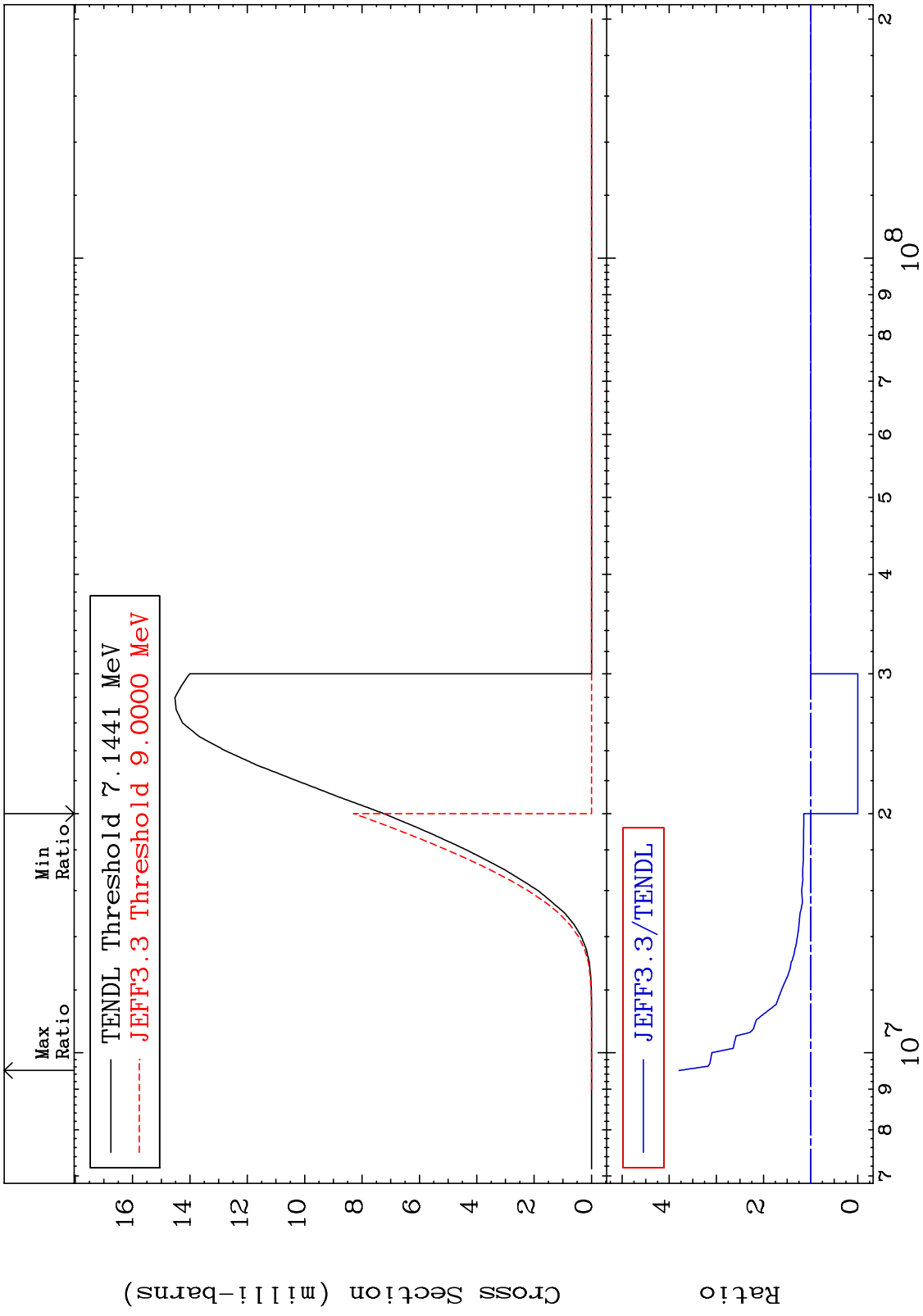


33 40-Zr-91

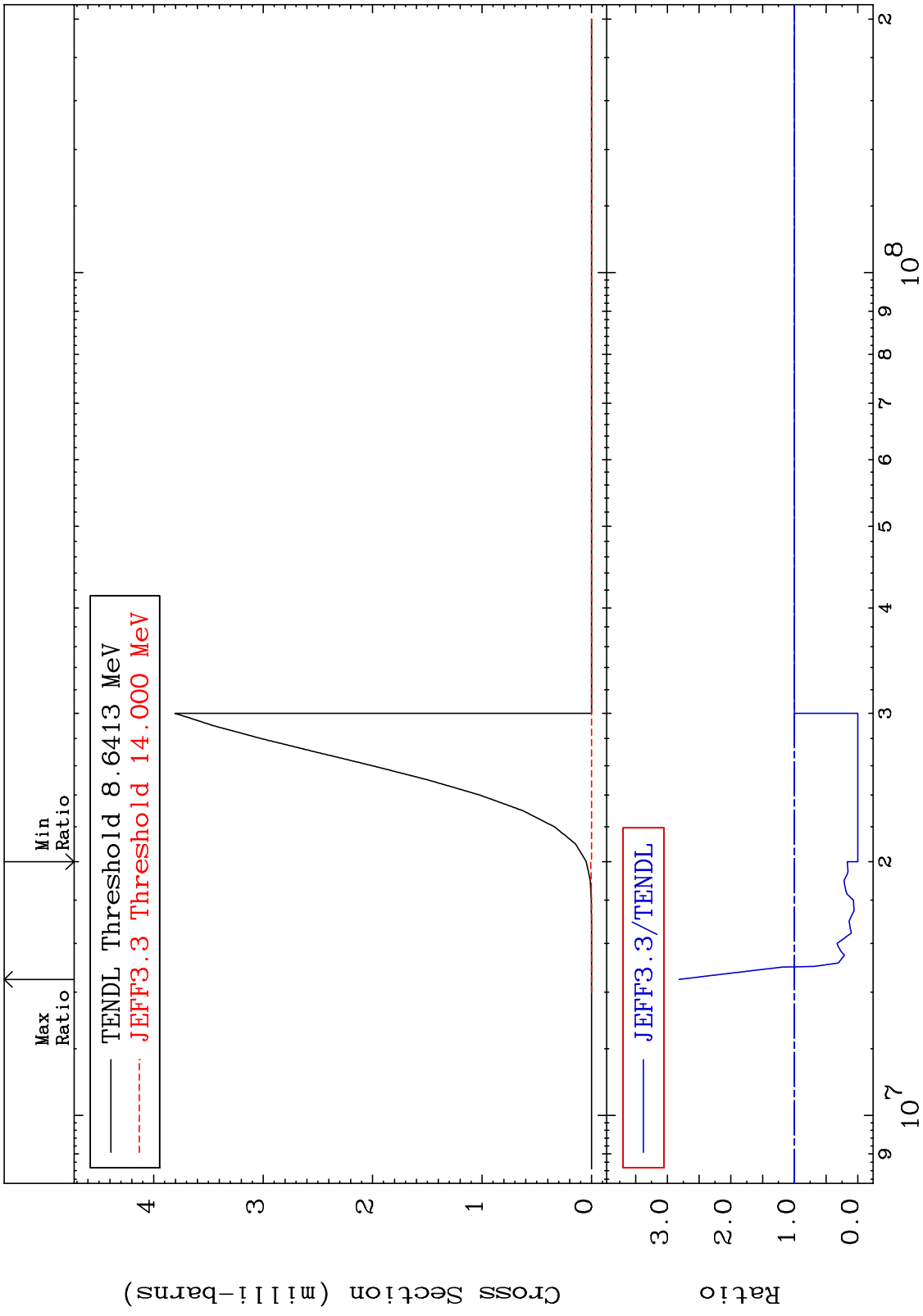
MAT 4028 (n,d) Cross Section 40-Zr-91 -100.0 To 447.4 %



MAT 4028 (n,t) Cross Section 40-Zr-91 -100.0 To 279.2 %



MAT 4028 (n, He-3) 40-Zr-91  
 Cross Section -100.0 To 181.7 %



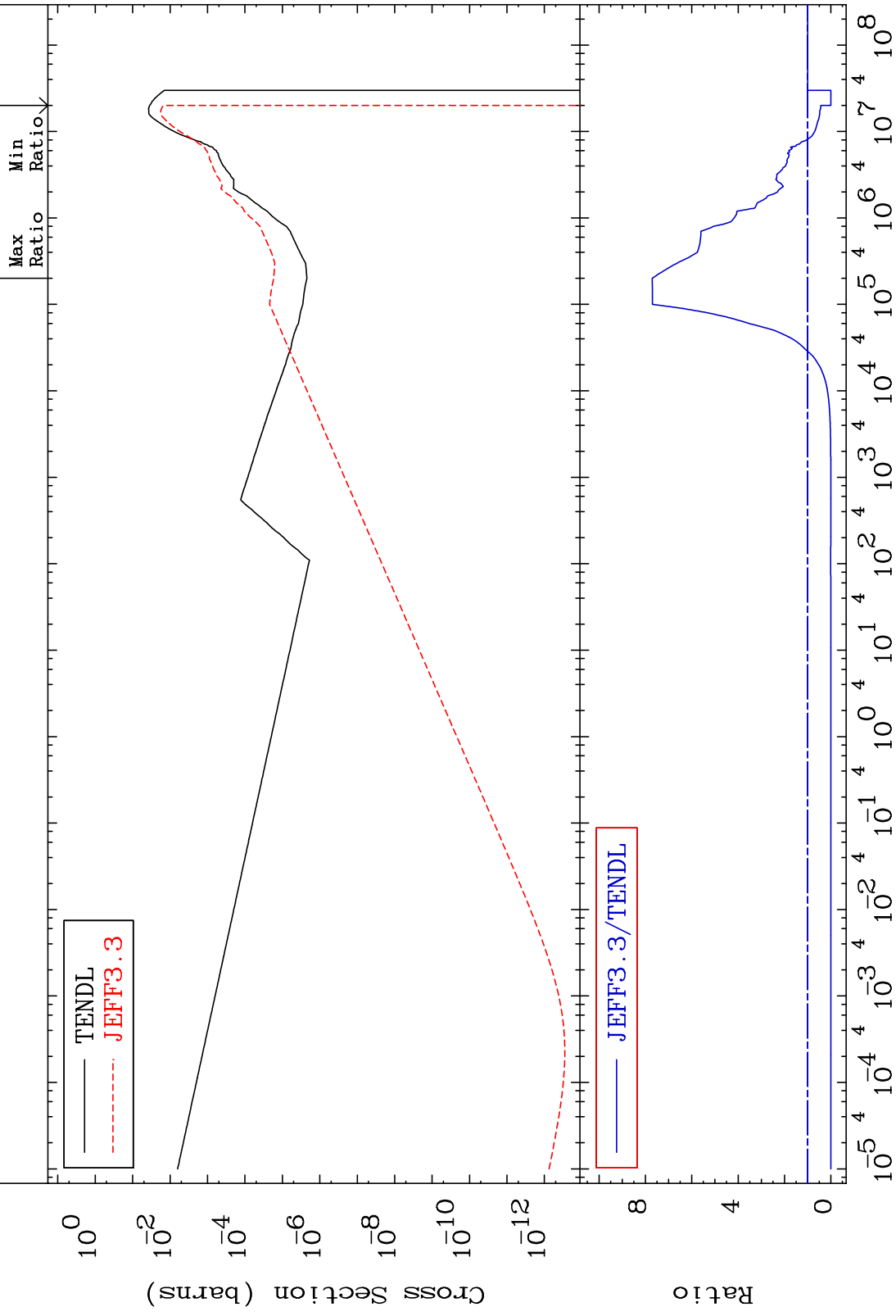
MAT 4028

(n,  $\alpha$ )

40-Zr-91

Cross Section

-100.0 To 670.4 %

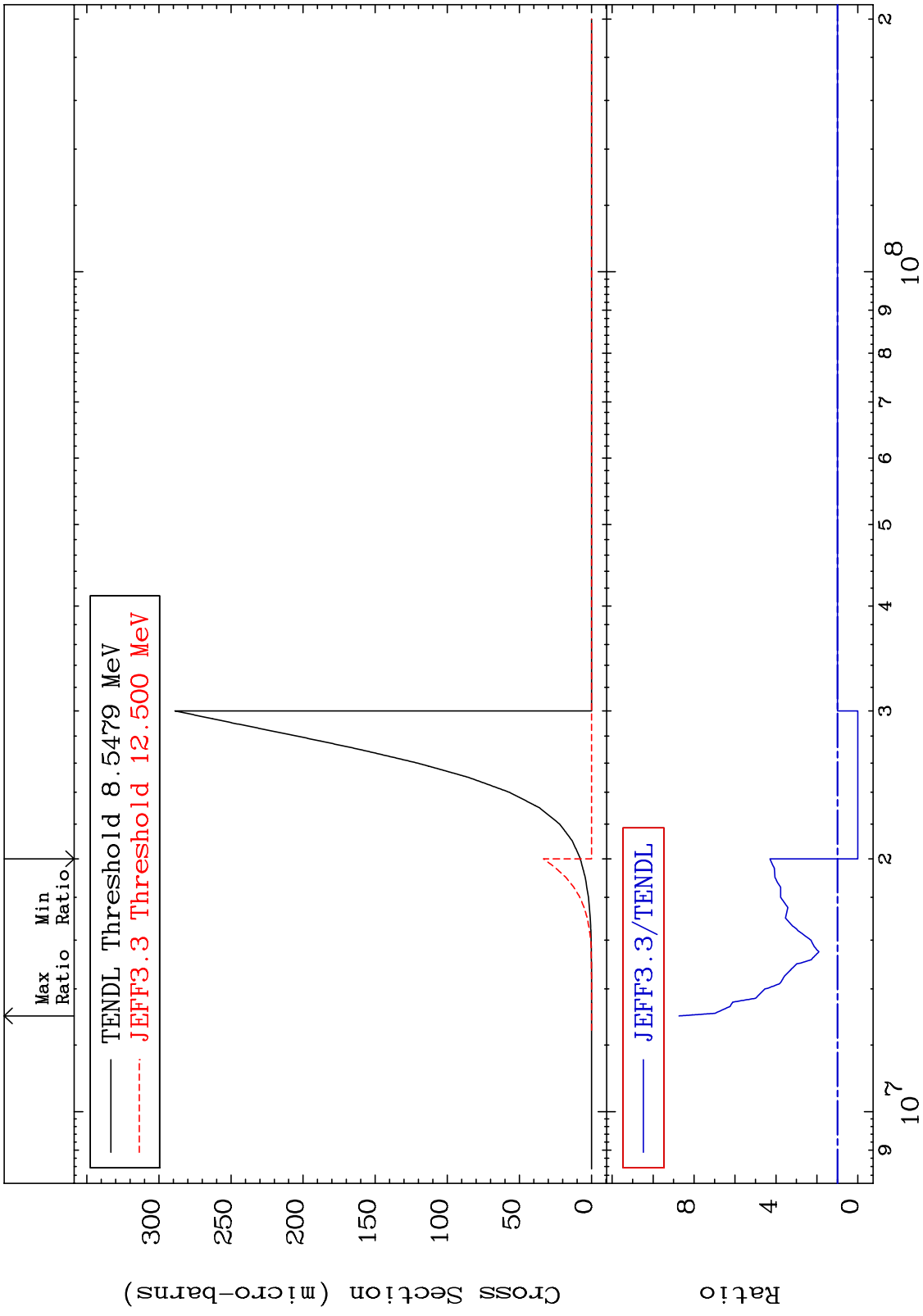


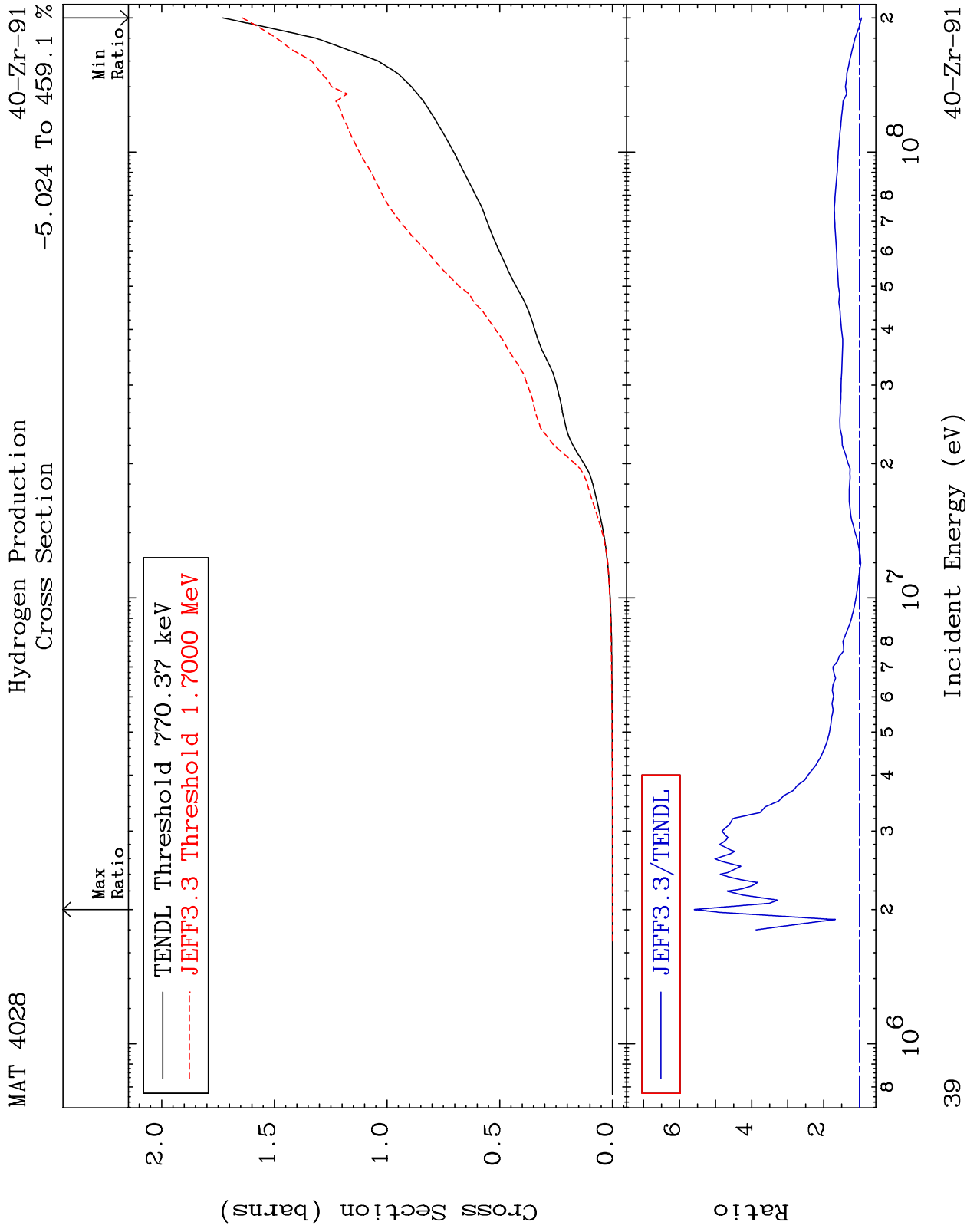
37

Incident Energy (eV)

40-Zr-91

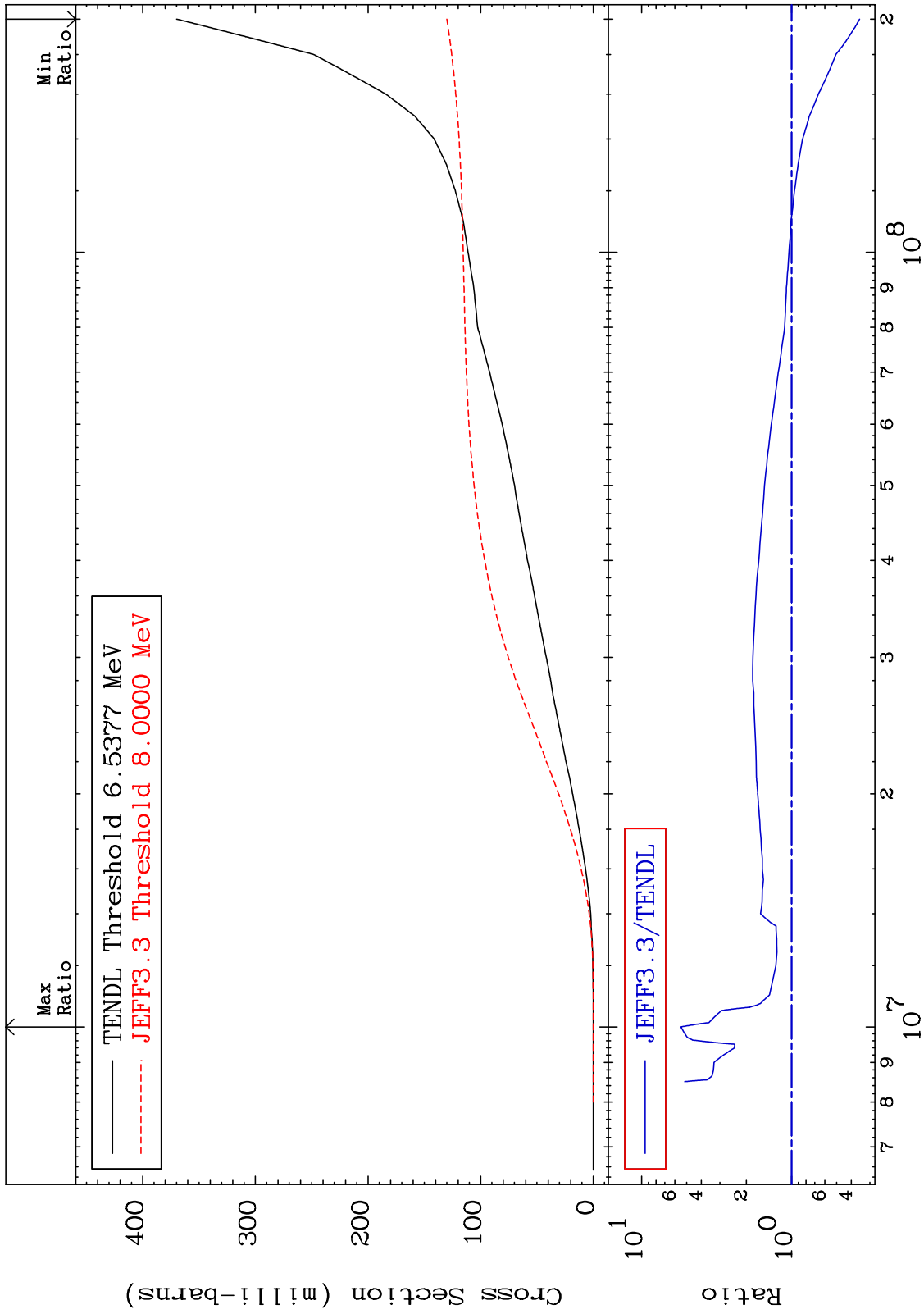
MAT 4028 (n,2p) Cross Section 40-Zr-91  
 -100.0 To 773.2 %



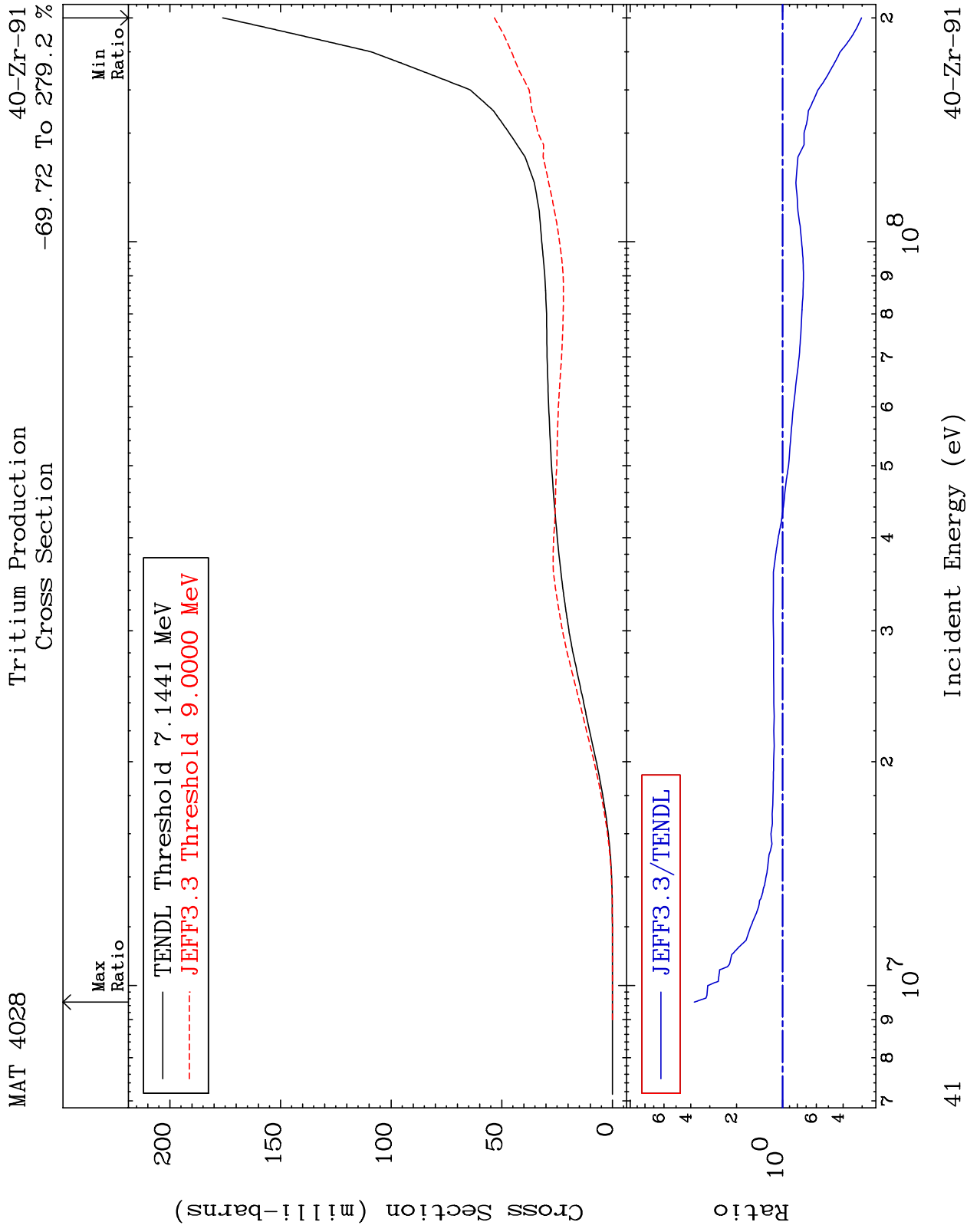




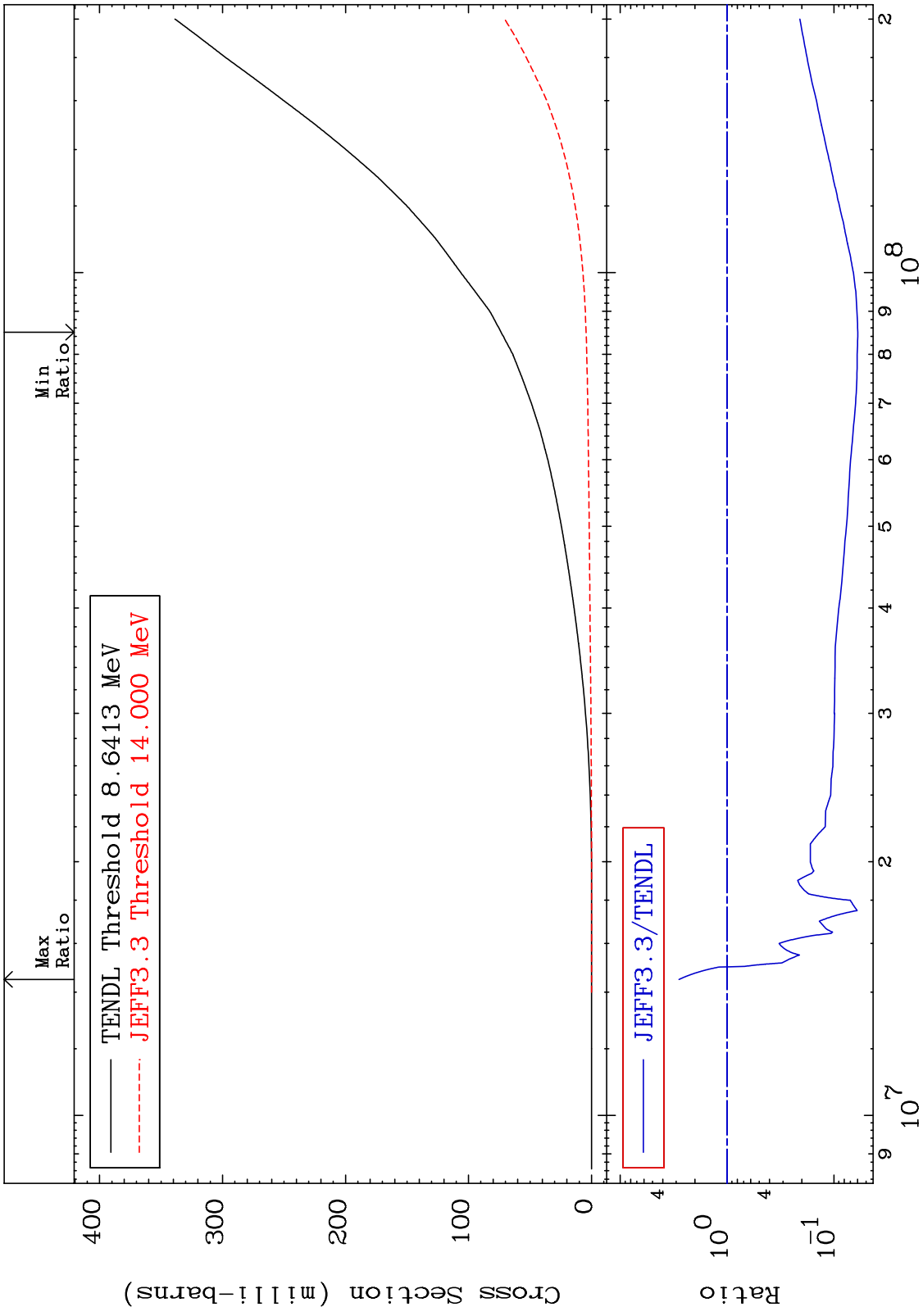
MAT 4028 Deuterium Production Cross Section 40-Zr-91 -64.87 To 447.4 %



40 40-Zr-91



MAT 4028 He-3 Production Cross Section 40-Zr-91 -94.03 To 181.7 %

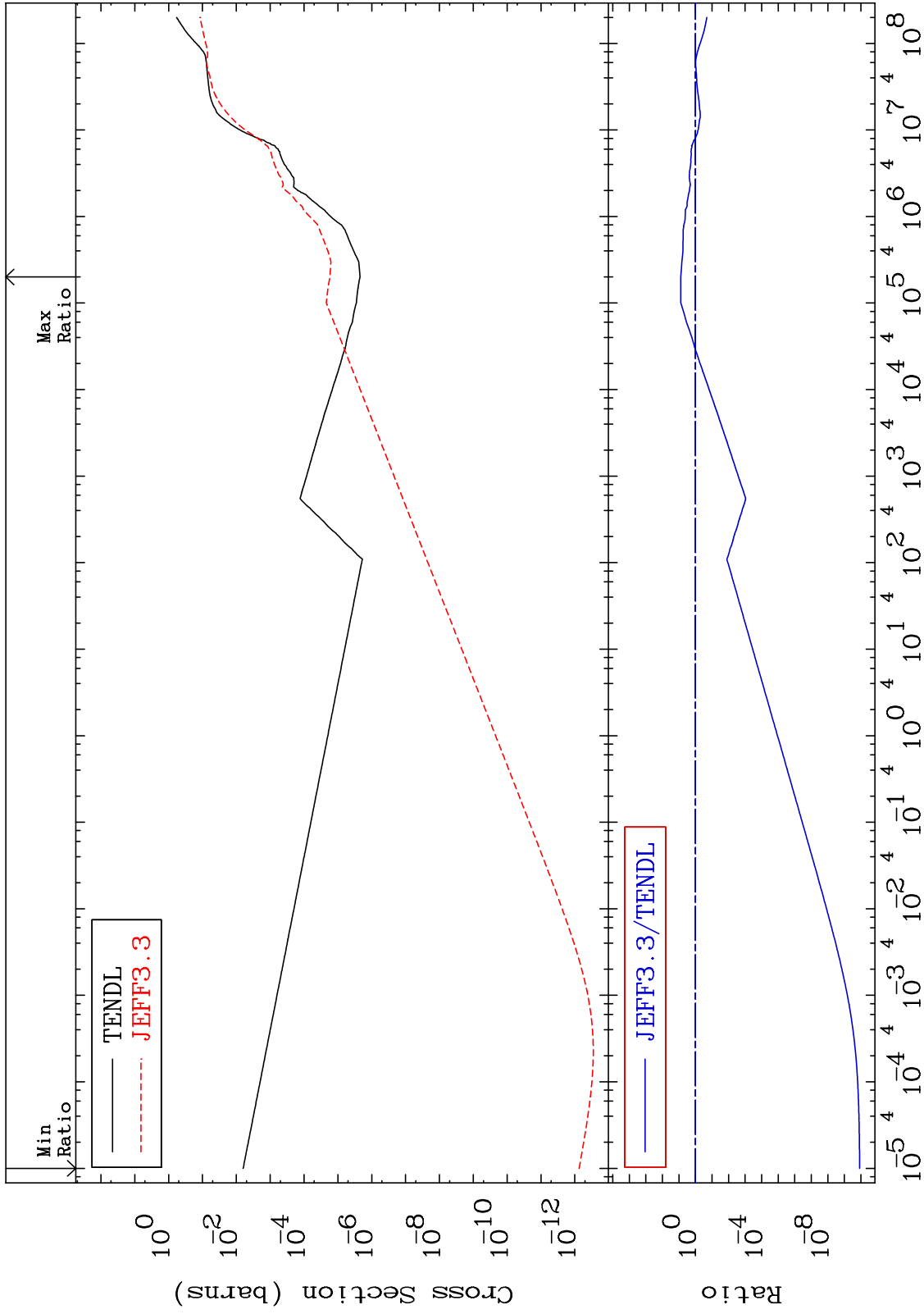


42 40-Zr-91

MAT 4028

He-4 Production  
Cross Section

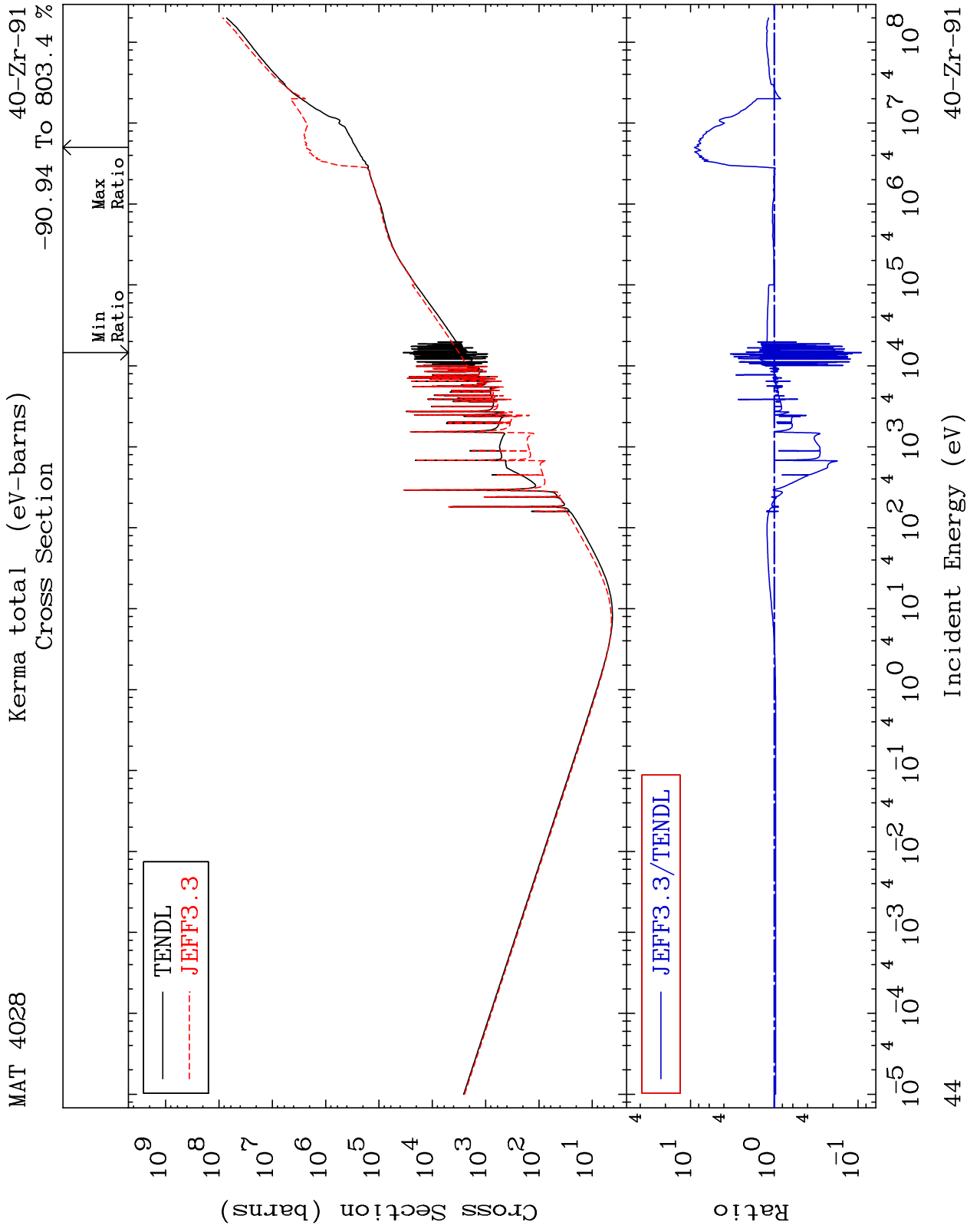
40-Zr-91  
-100.0 To 670.4 %



43

Incident Energy (eV)

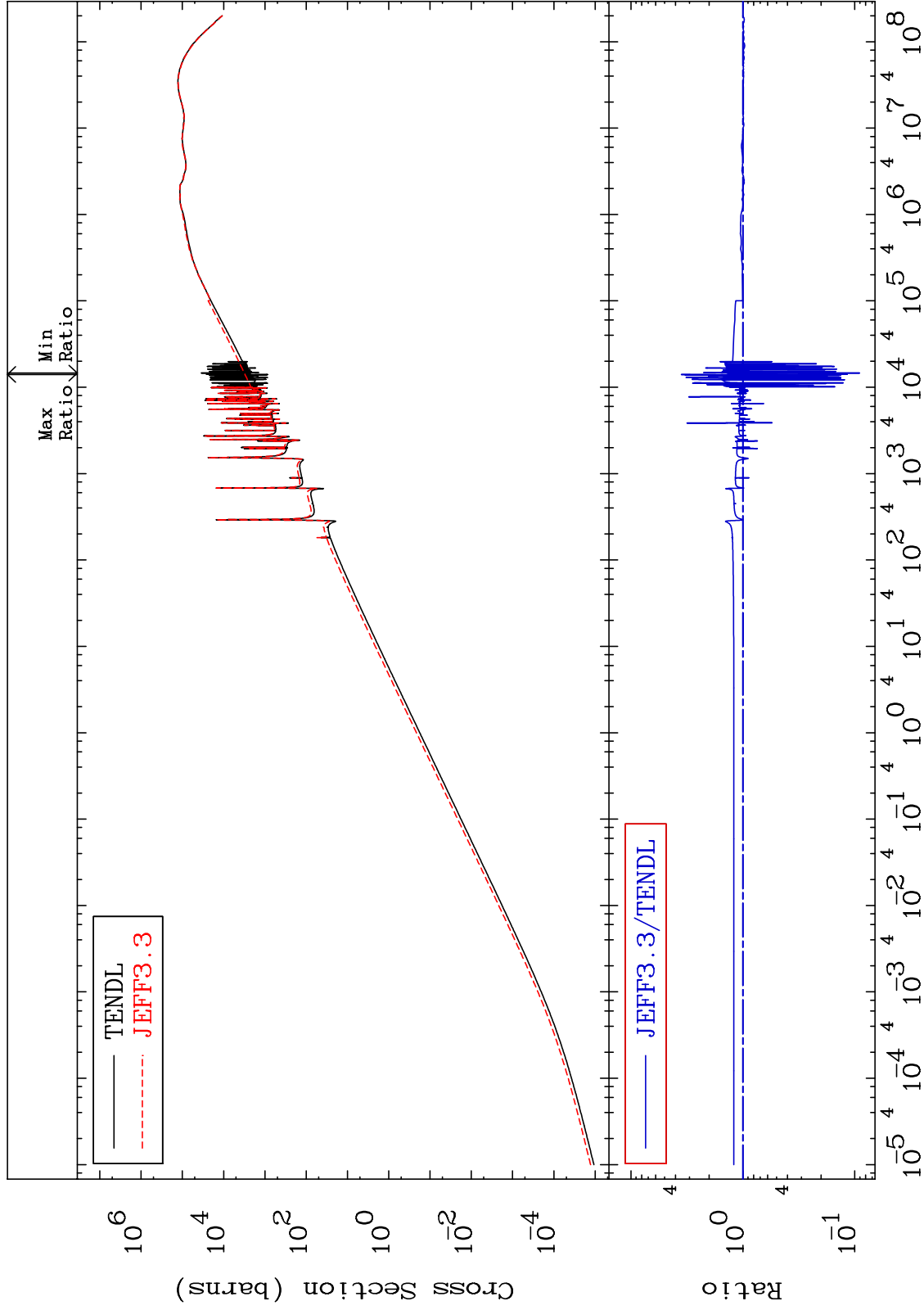
40-Zr-91



MAT 4028

Kerma elastic  
Cross Section

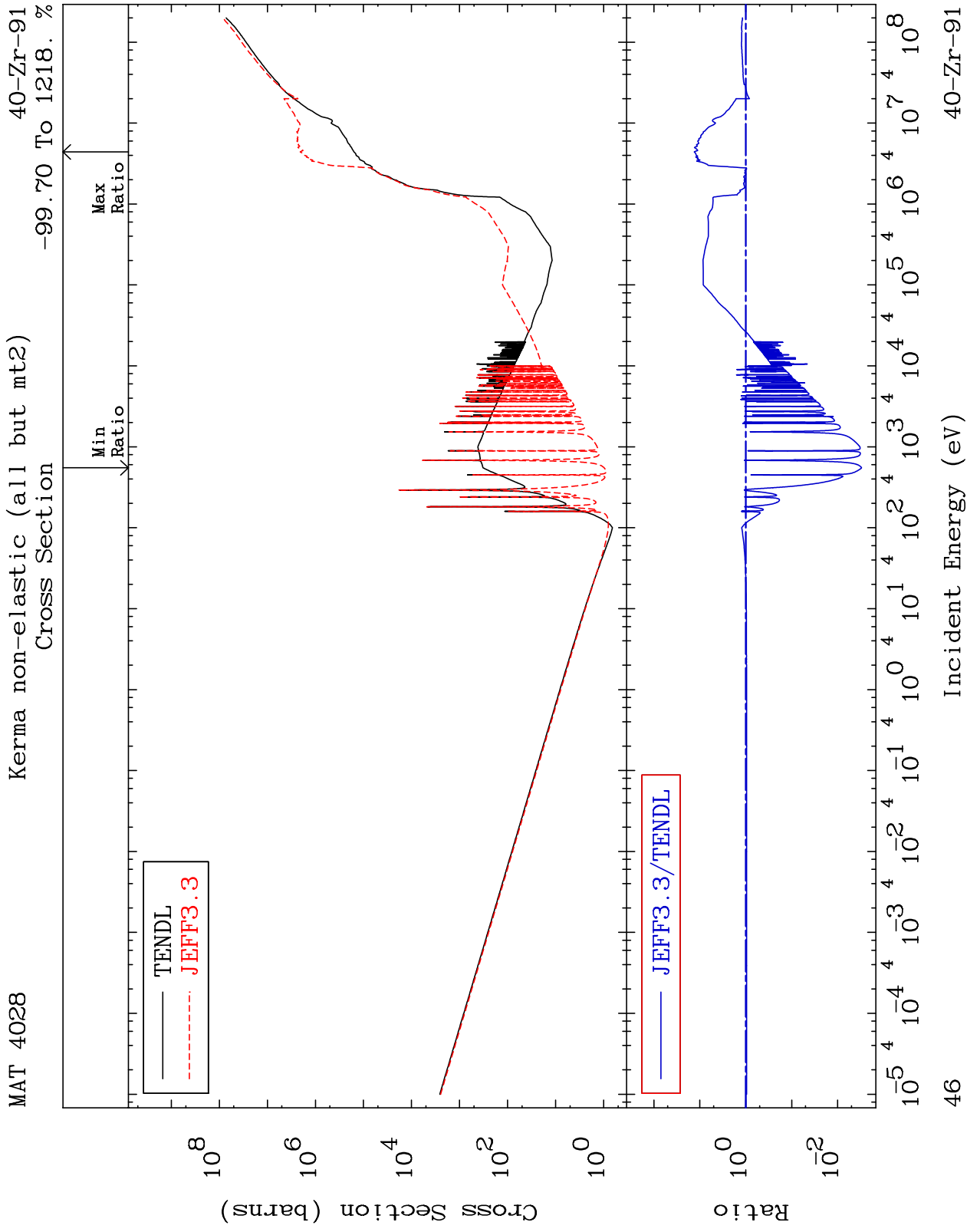
40-Zr-91  
-90.97 To 254.9 %



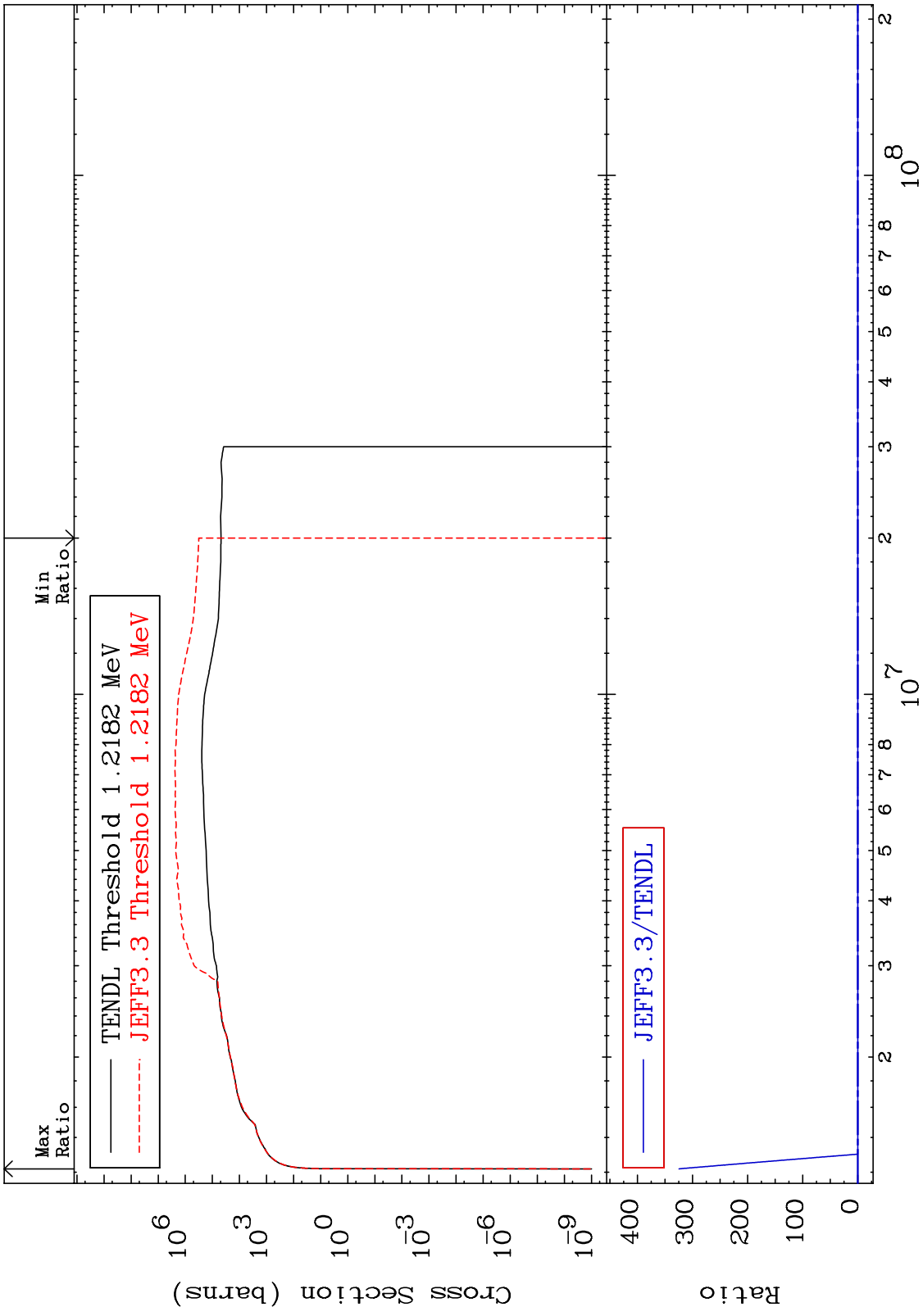
45

Incident Energy (eV)

40-Zr-91



MAT 4028 Kerma inelastic (mt51-91) 40-Zr-91  
 -100.0 To 9999. %

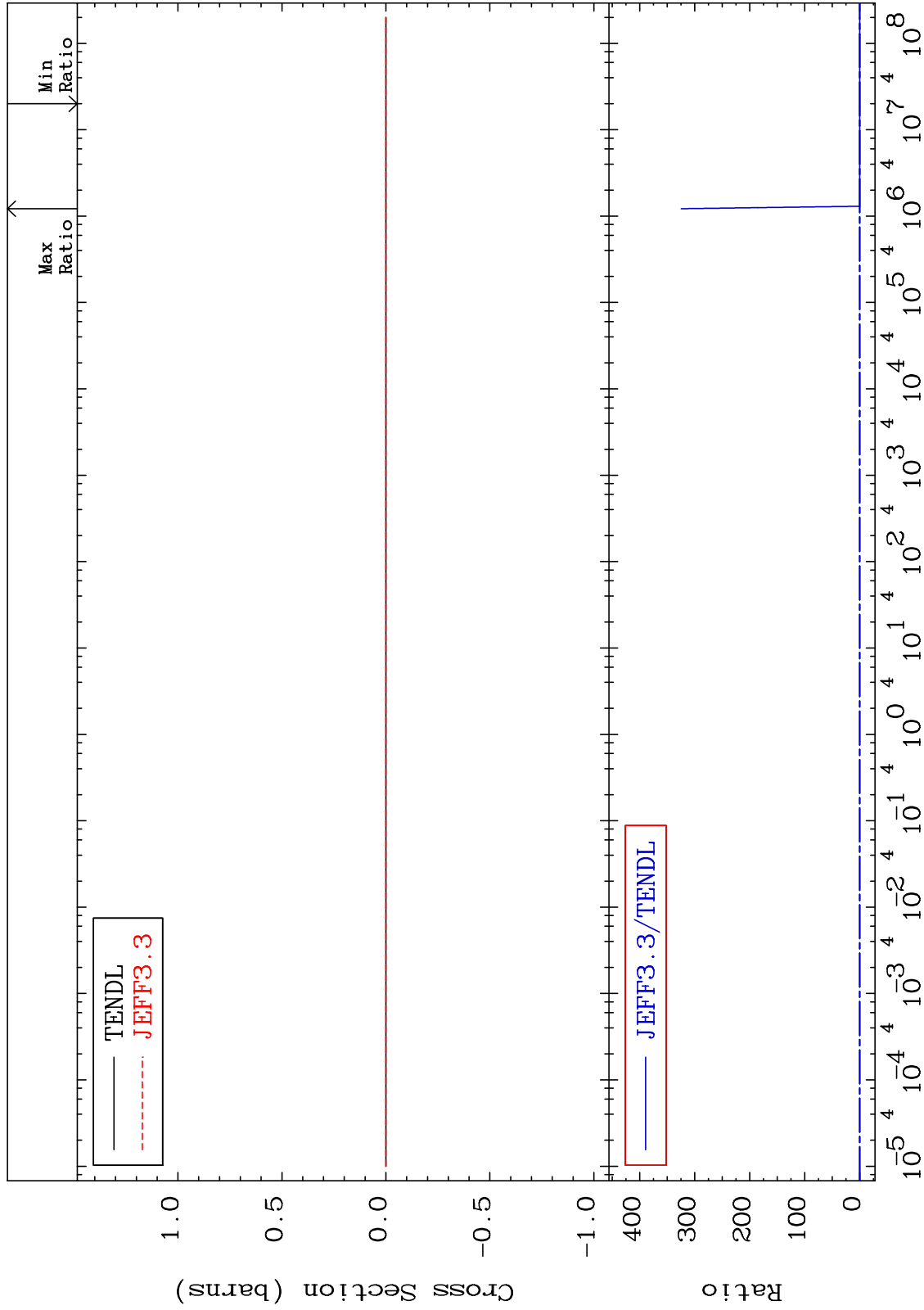




MAT 4028

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

40-Zr-91  
-100.0 To 9999. %



48

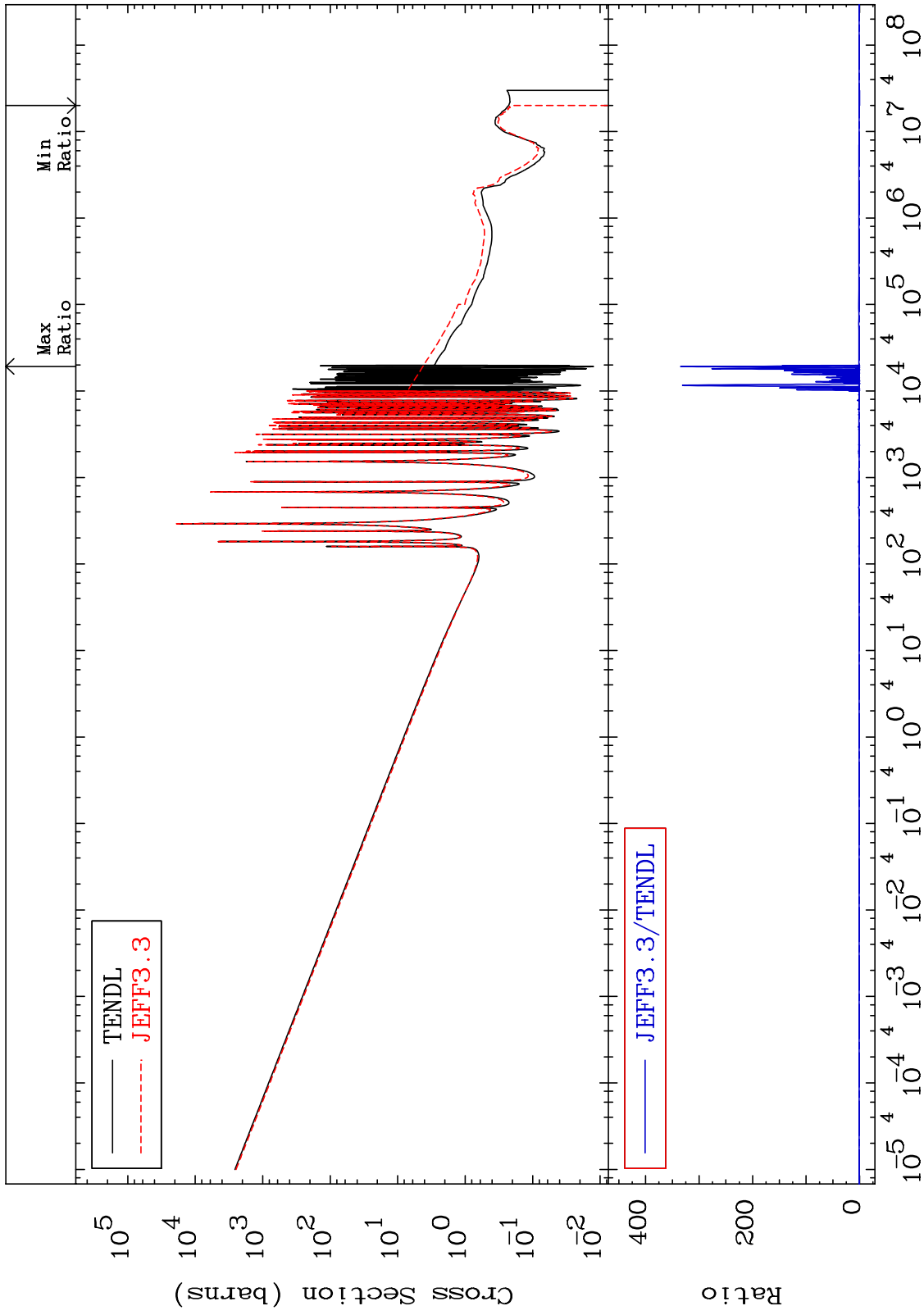
Incident Energy (eV)

40-Zr-91

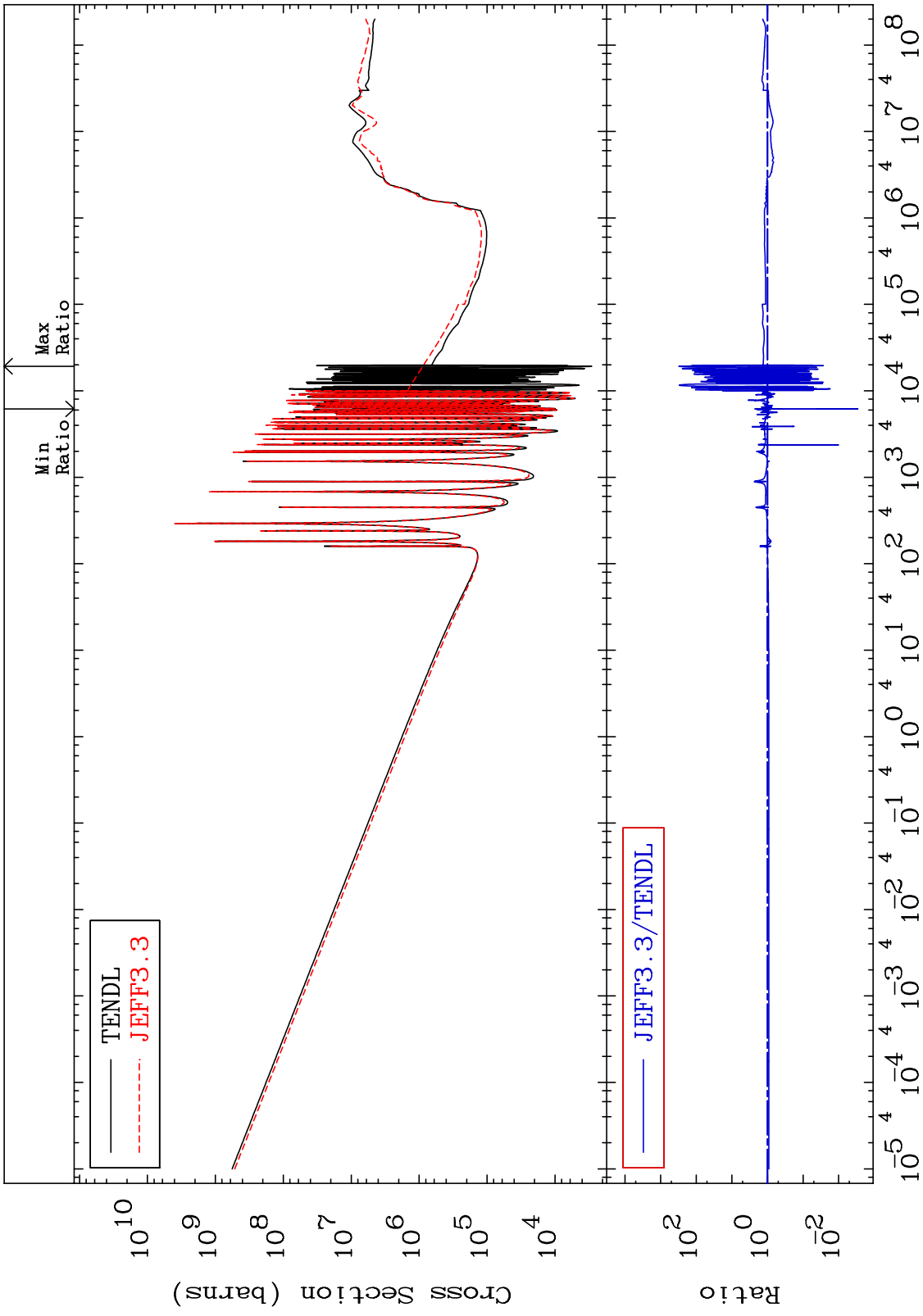
MAT 4028

Kerma capture (mt102)  
Cross Section

40-Zr-91  
-100.0 To 9999. %

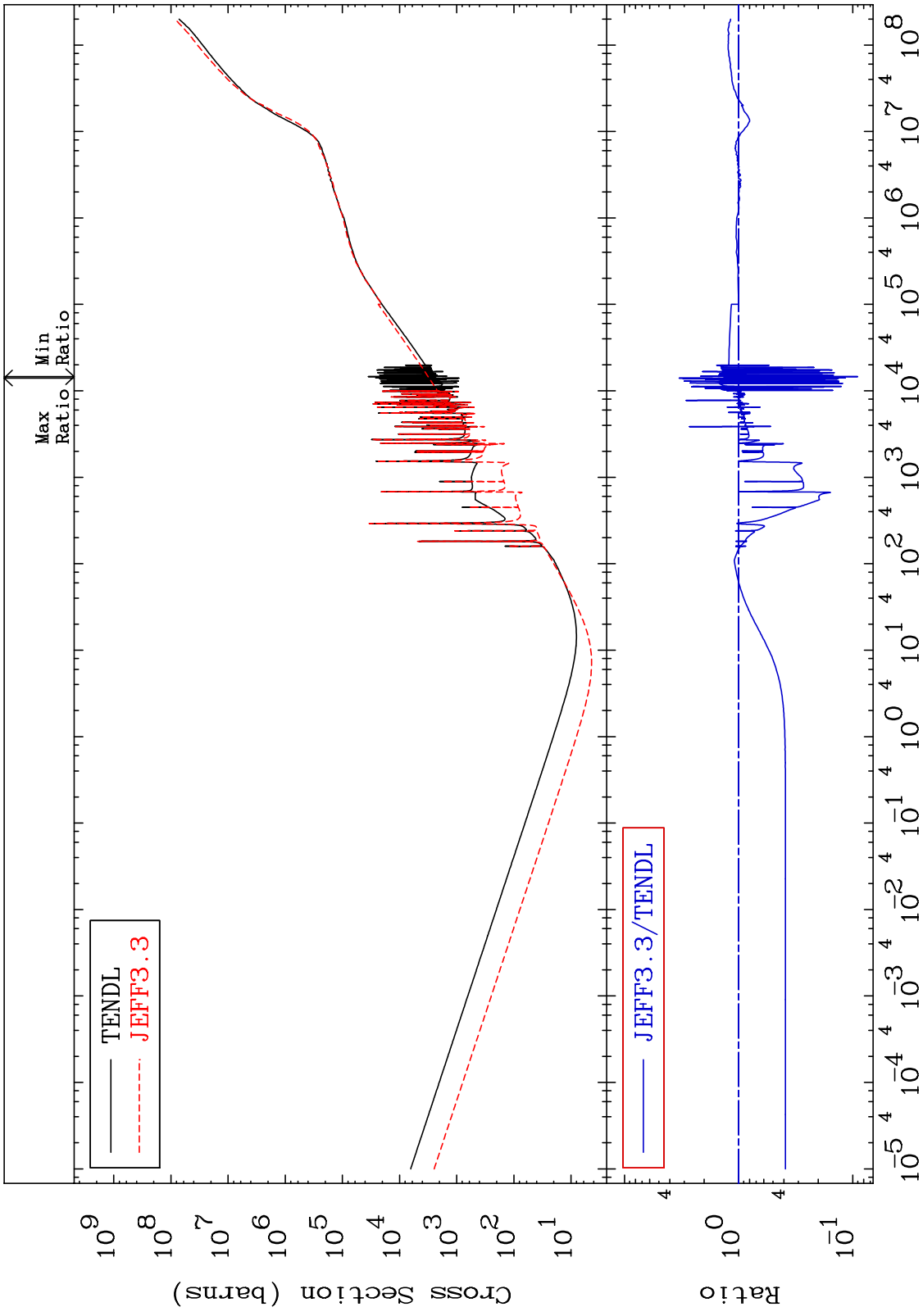


MAT 4028 40-Zr-91  
 Total photon (eV-barns) Cross Section -99.71 To 9999. %

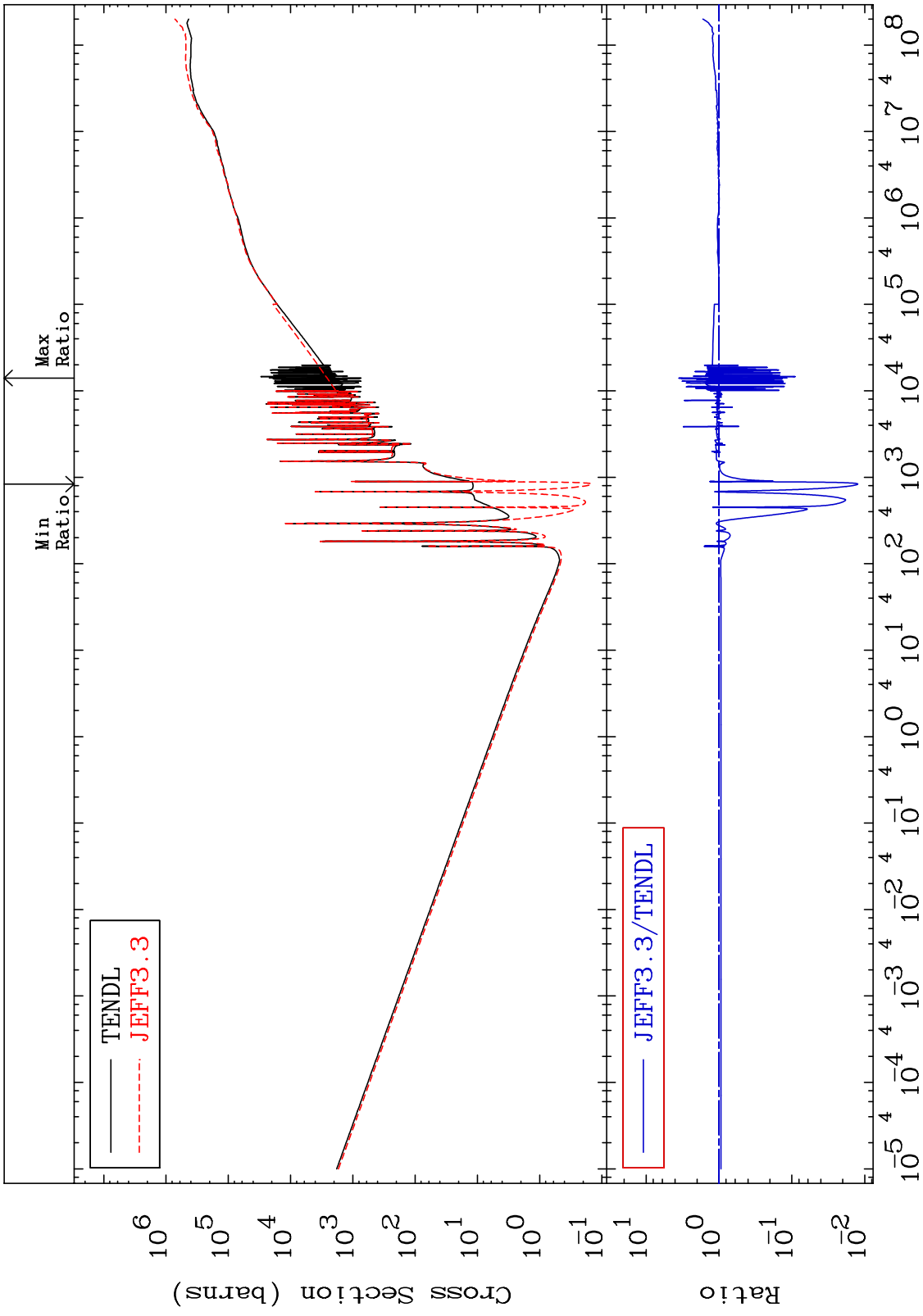


50 40-Zr-91

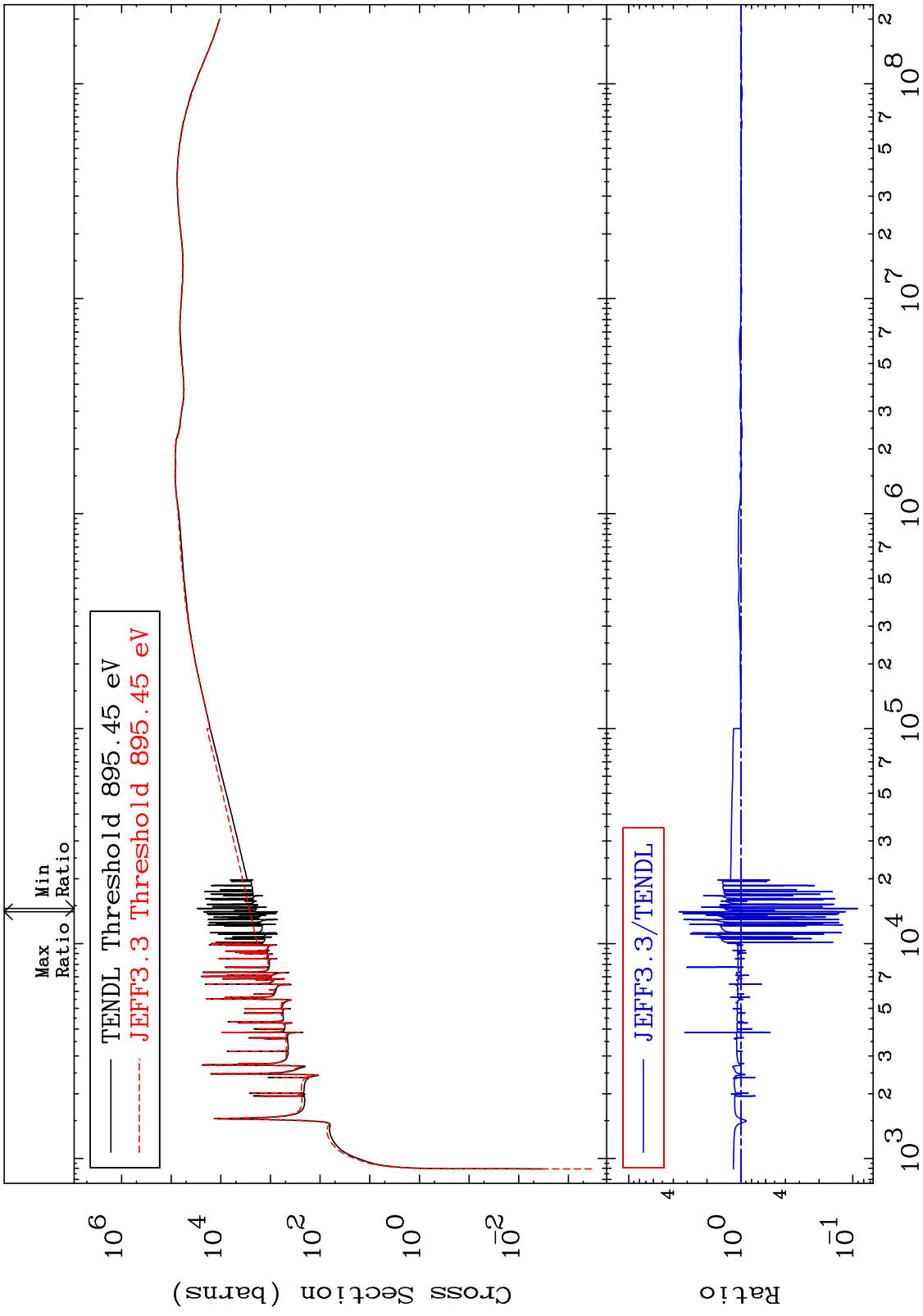
MAT 4028      Total kinematic kerma (high limit)      40-Zr-91  
 Cross Section      -90.99 To 232.4 %



MAT 4028      Dpa total (eV-barns)      40-Zr-91  
 Cross Section      -98.76 To 253.5 %

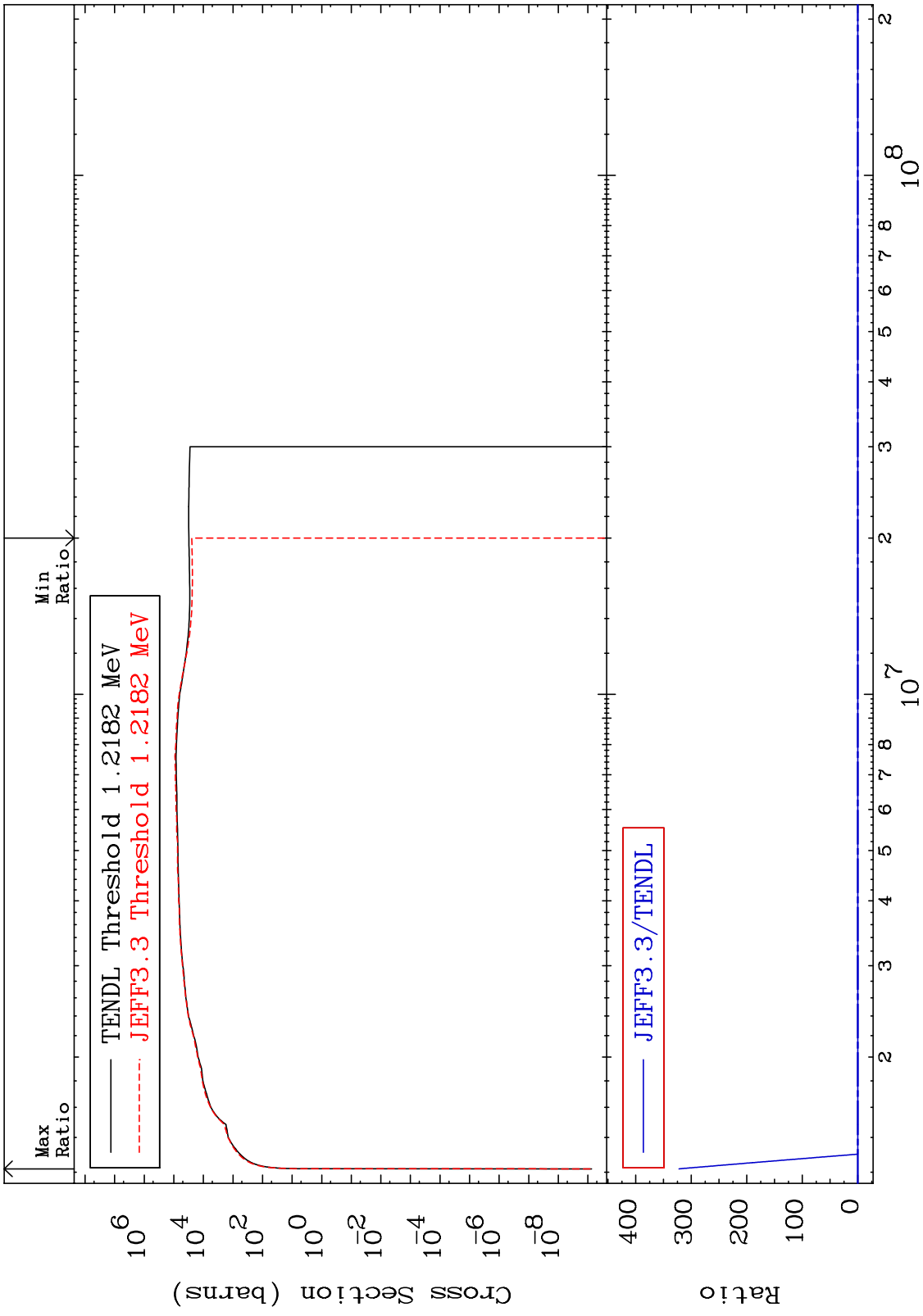


MAT 4028 40-Zr-91  
 Dpa elastic (mt2) -90.97 To 255.0 %  
 Cross Section



53 40-Zr-91

MAT 4028 Dpa inelastic (mt51-91) 40-Zr-91  
 Cross Section -100.0 To 9999. %



MAT 4028

Dpa disappearance (mt102 -120)  
Cross Section

40-Zr-91  
-100.0 To 363.2 %

