

Program Complot  
(Version 2018-1)

by

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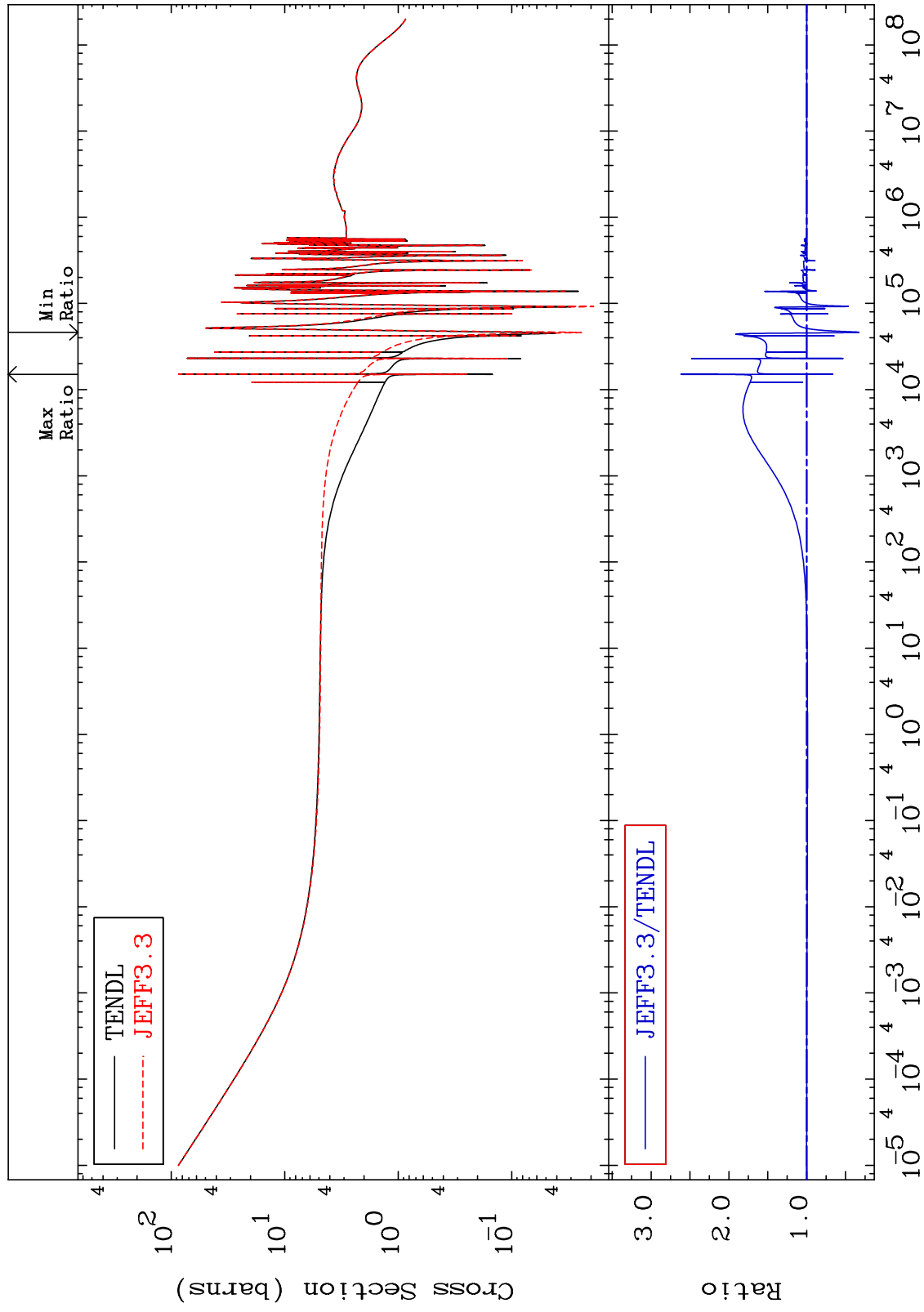
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 2037

Total  
Cross Section

20-Ca-44  
-67.36 To 161.7 %



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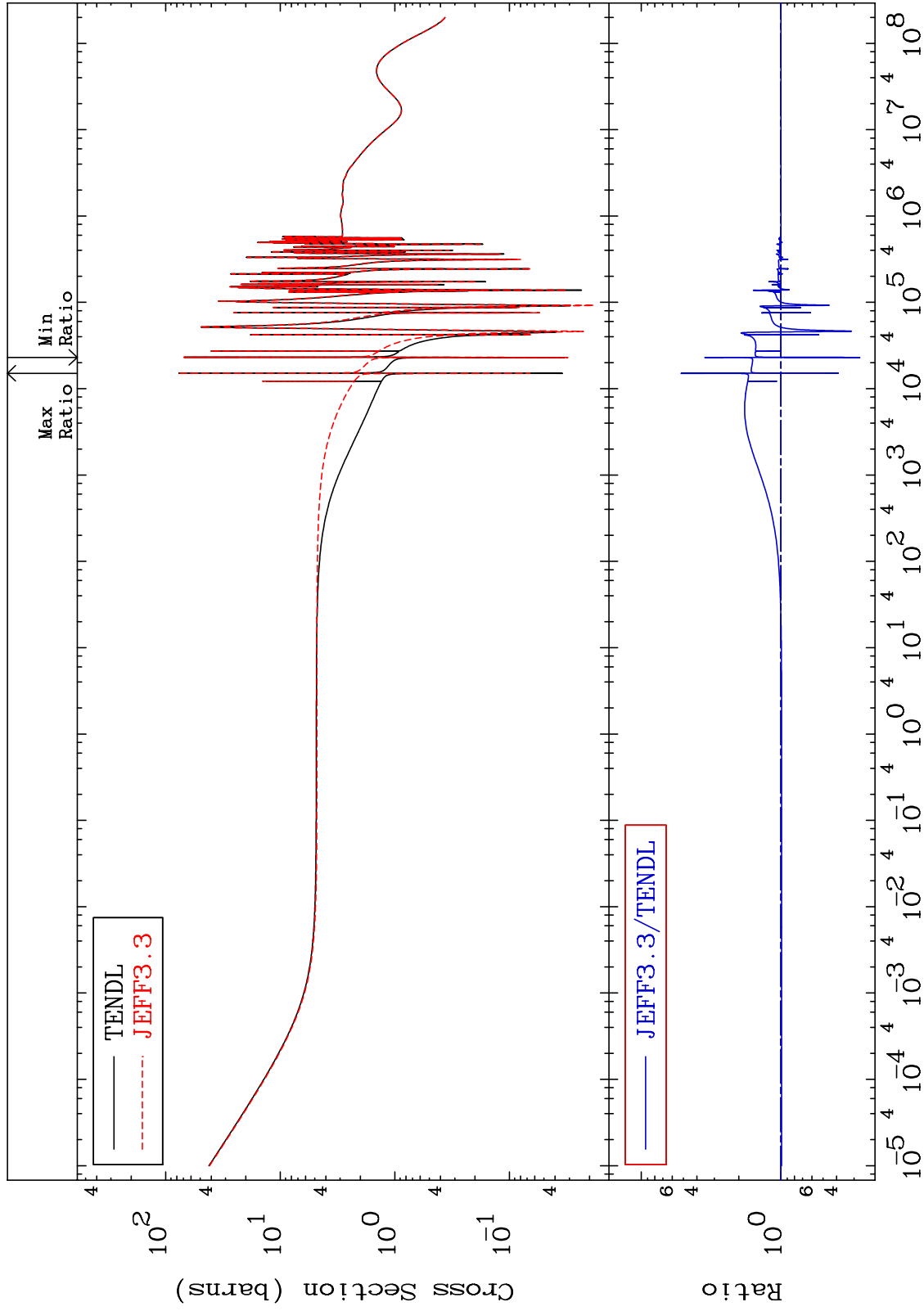
Incident Energy (eV)

20-Ca-44

MAT 2037

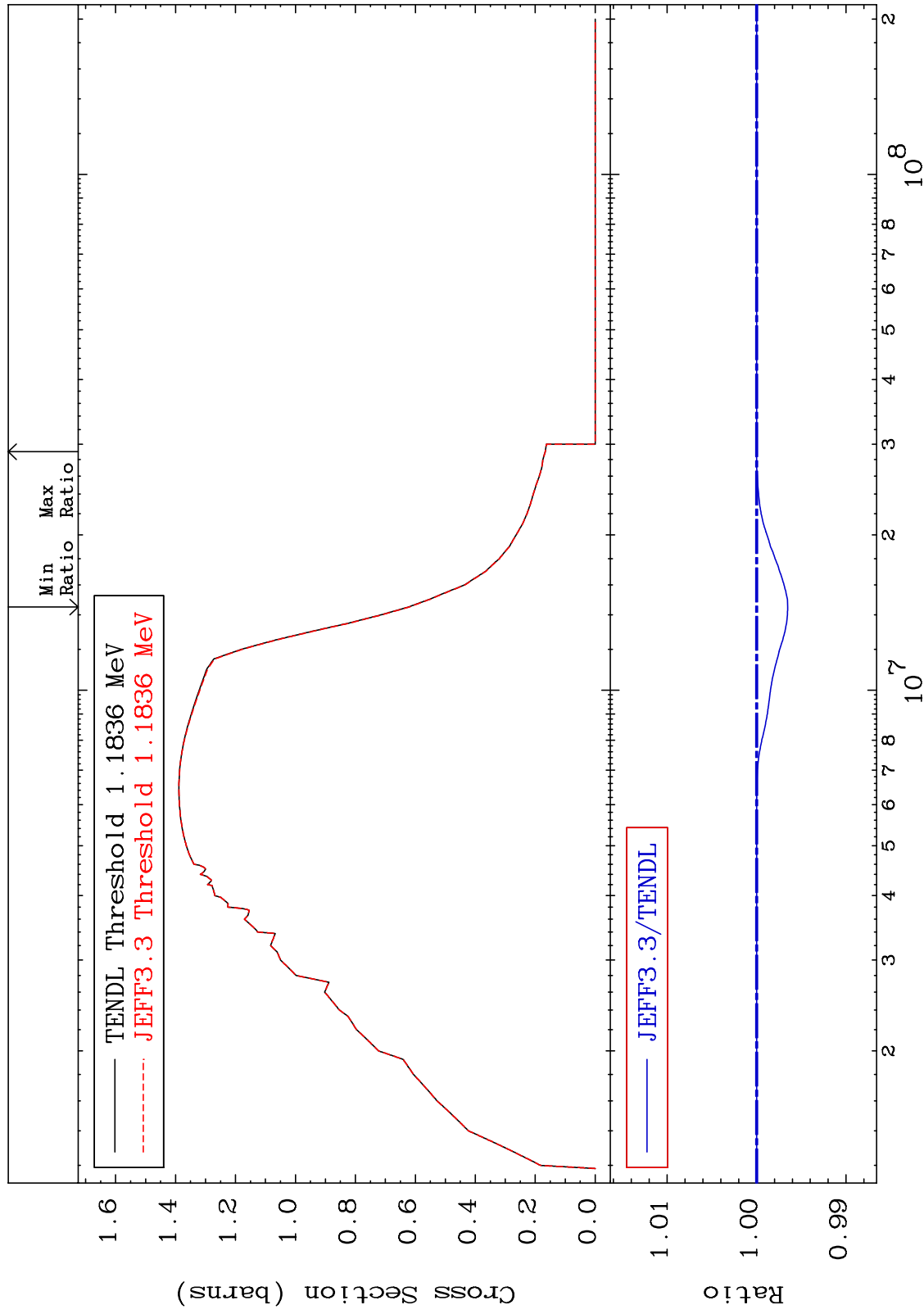
Elastic  
Cross Section

20-Ca-44  
-72.74 To 417.2 %

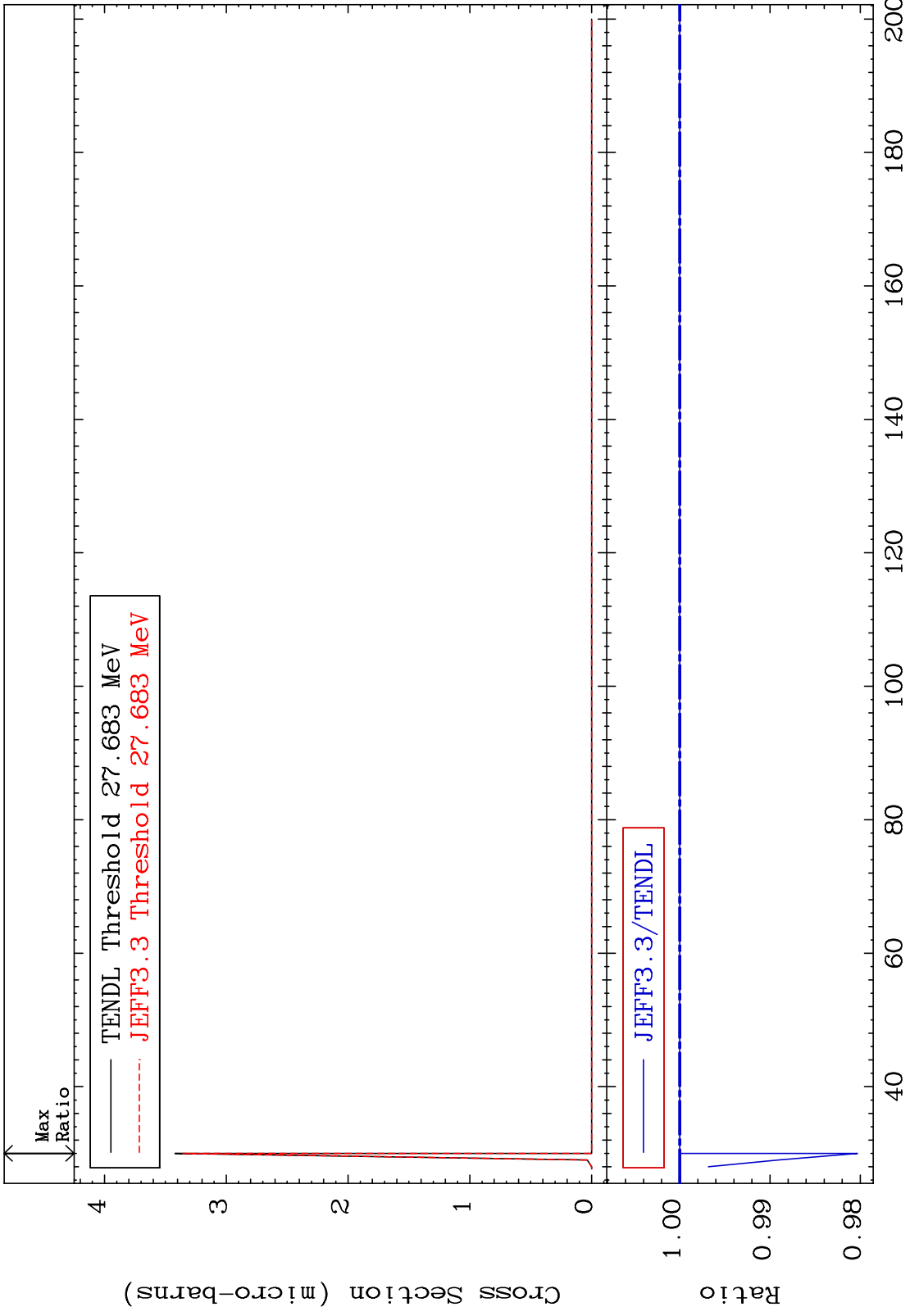


MAT 2037

Inelastic Cross Section  
20-Ca-44  
-0.347 To 0.002 %



MAT 2037 (n,2n) d 20-Ca-44  
Cross Section -1.968 To 0.000 %



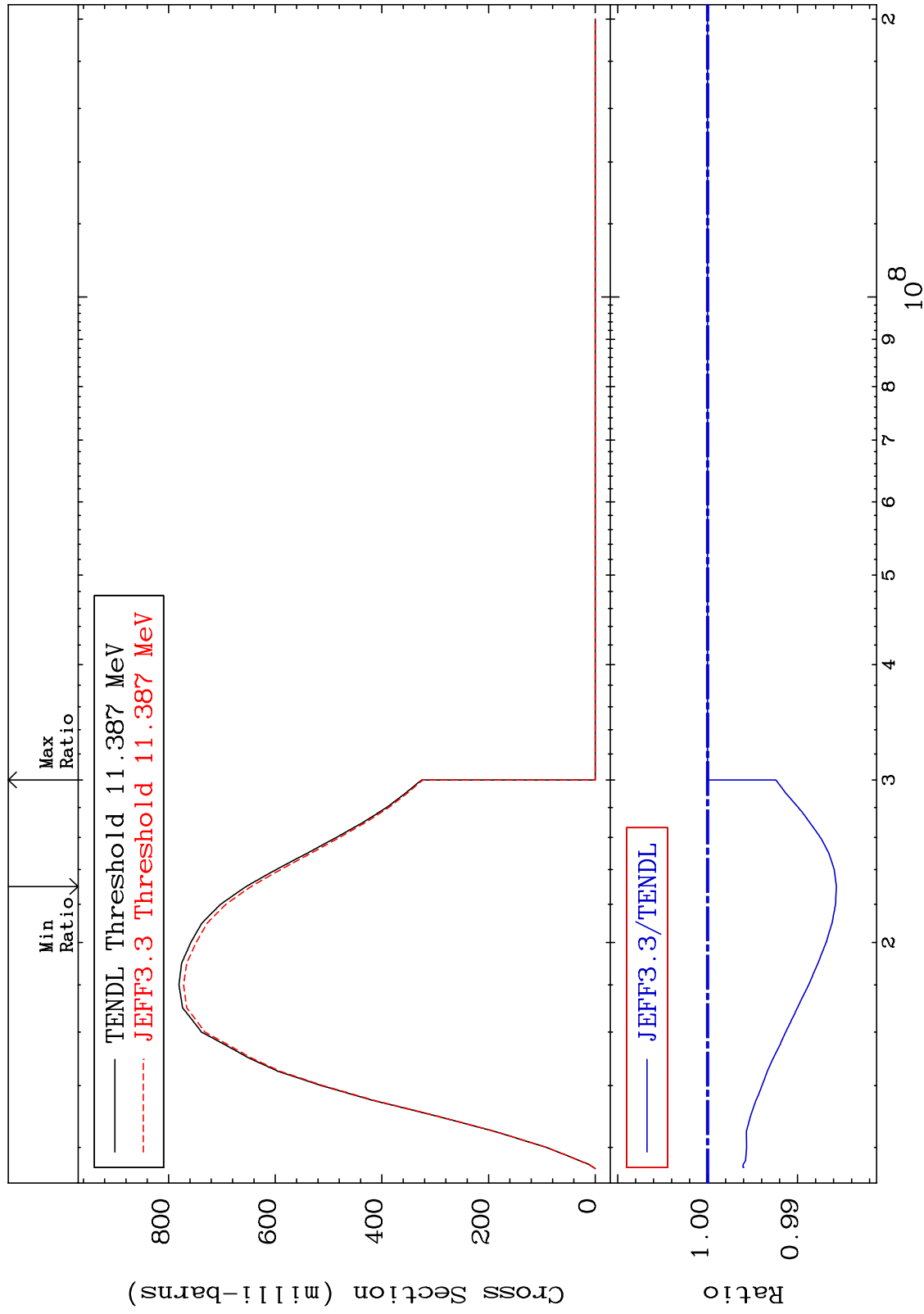
MAT 2037

(n,2n)

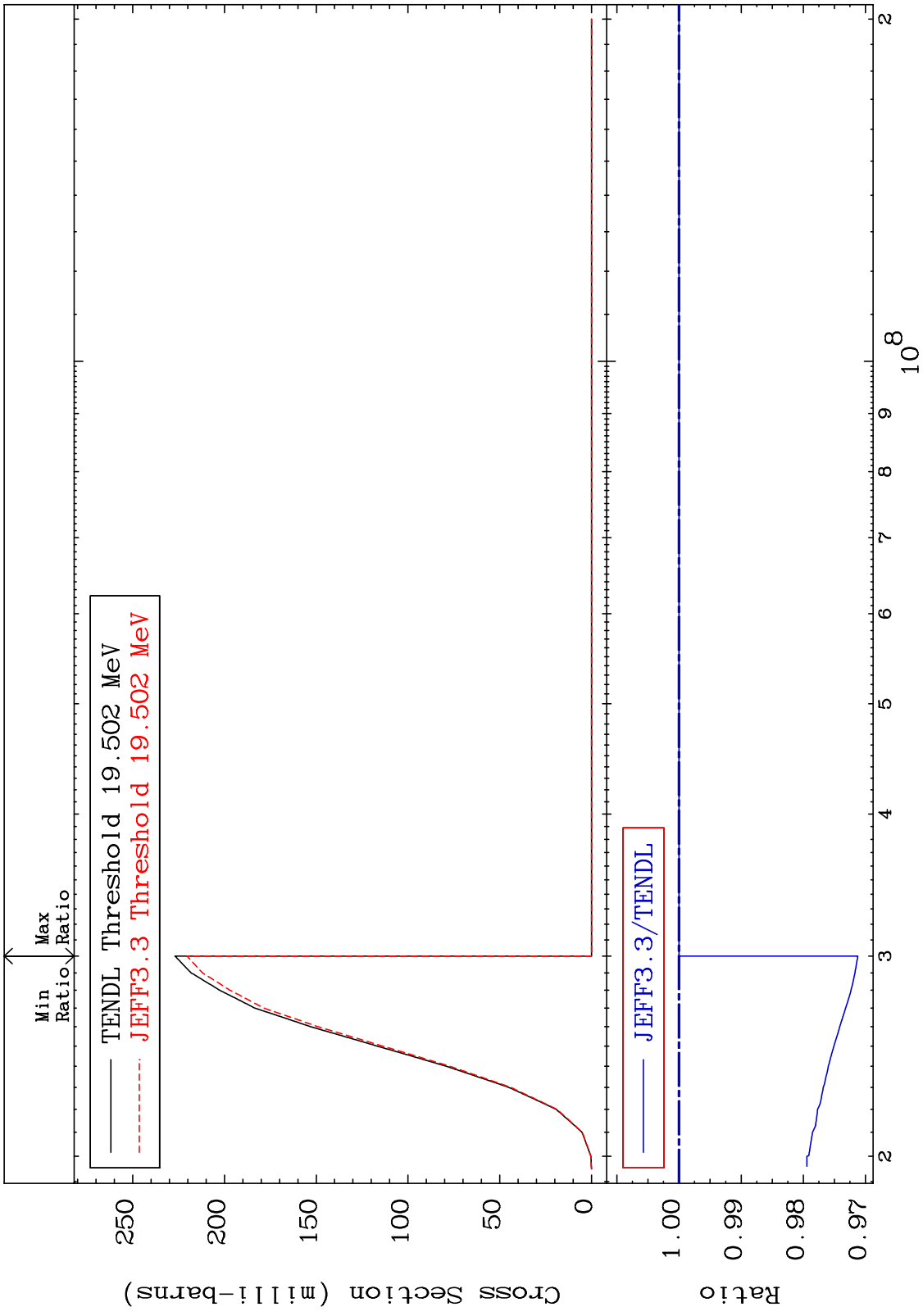
20-Ca-44

Cross Section

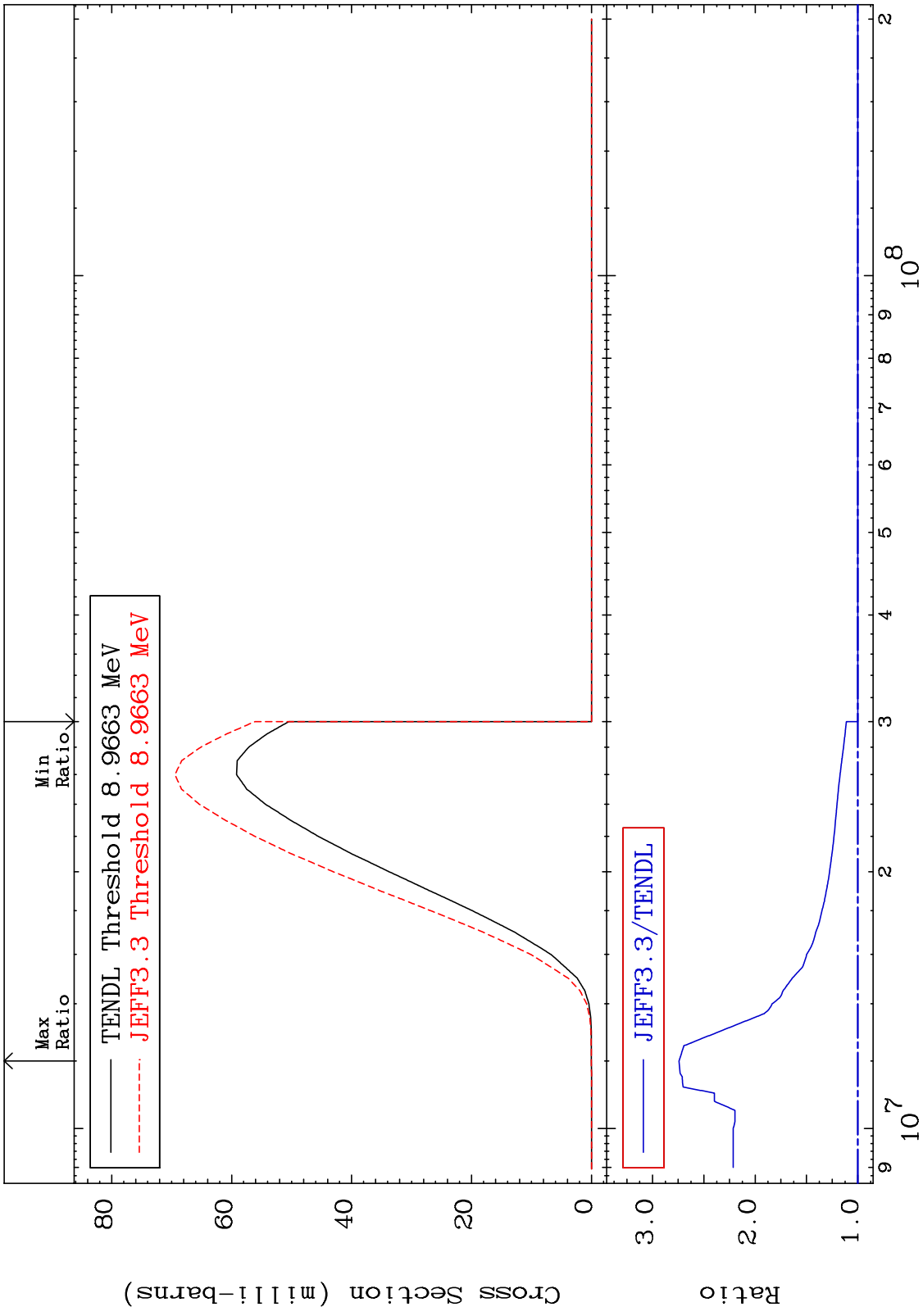
-1.431 To 0.000 %



MAT 2037 (n,3n) Cross Section 20-Ca-44 -2.877 To 0.000 %

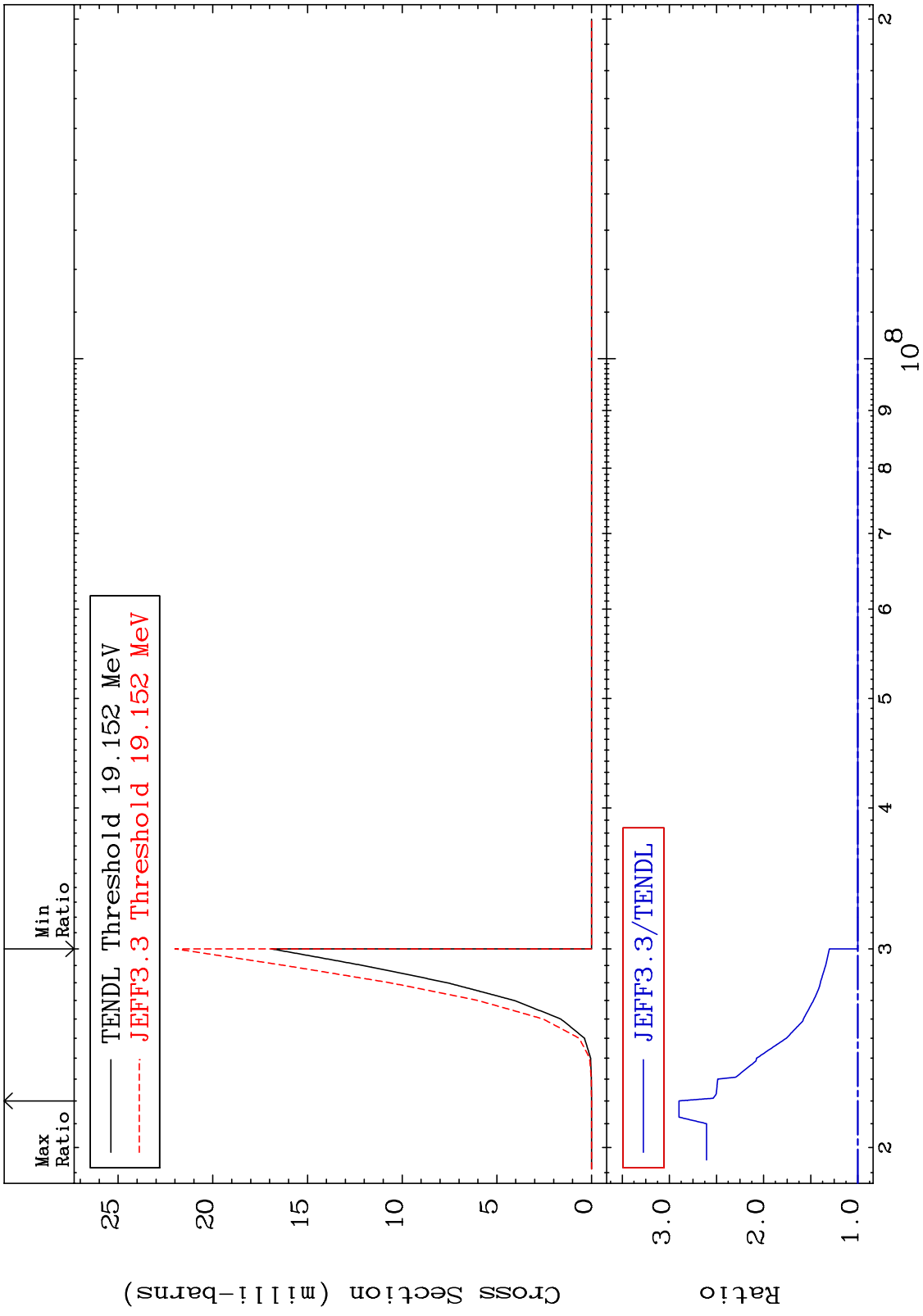


MAT 2037  $(n, n') \alpha$  Cross Section 20-Ca-44 To 174.2 %

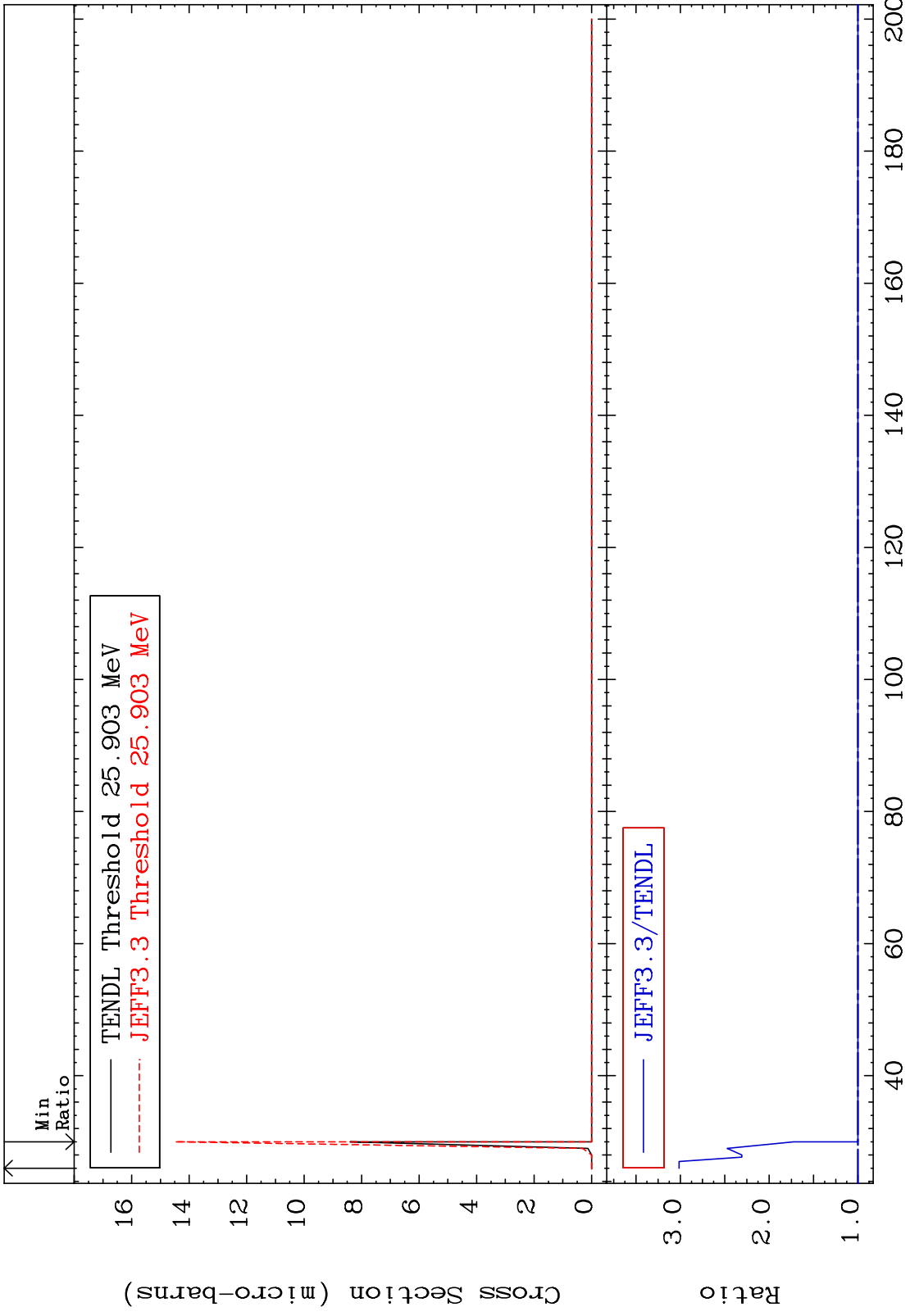




MAT 2037 (n,2n)  $\alpha$  20-Ca-44  
Cross Section 0.000 To 189.7 %



MAT 2037 (n,3n)  $\alpha$  20-Ca-44  
Cross Section 0.000 To 201.3 %



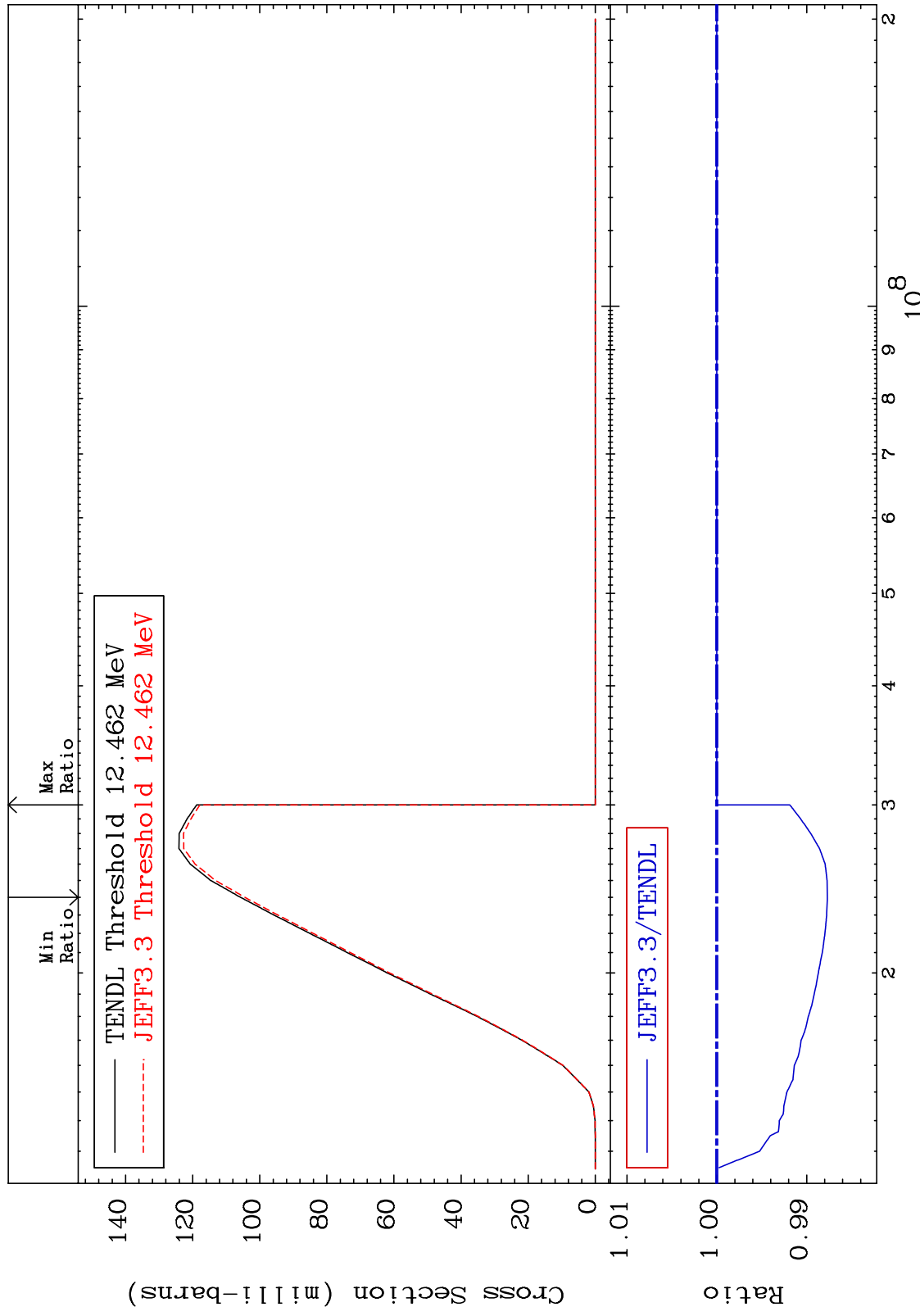
MAT 2037

(n, n') p

20-Ca-44

Cross Section

-1.230 To 0.000 %

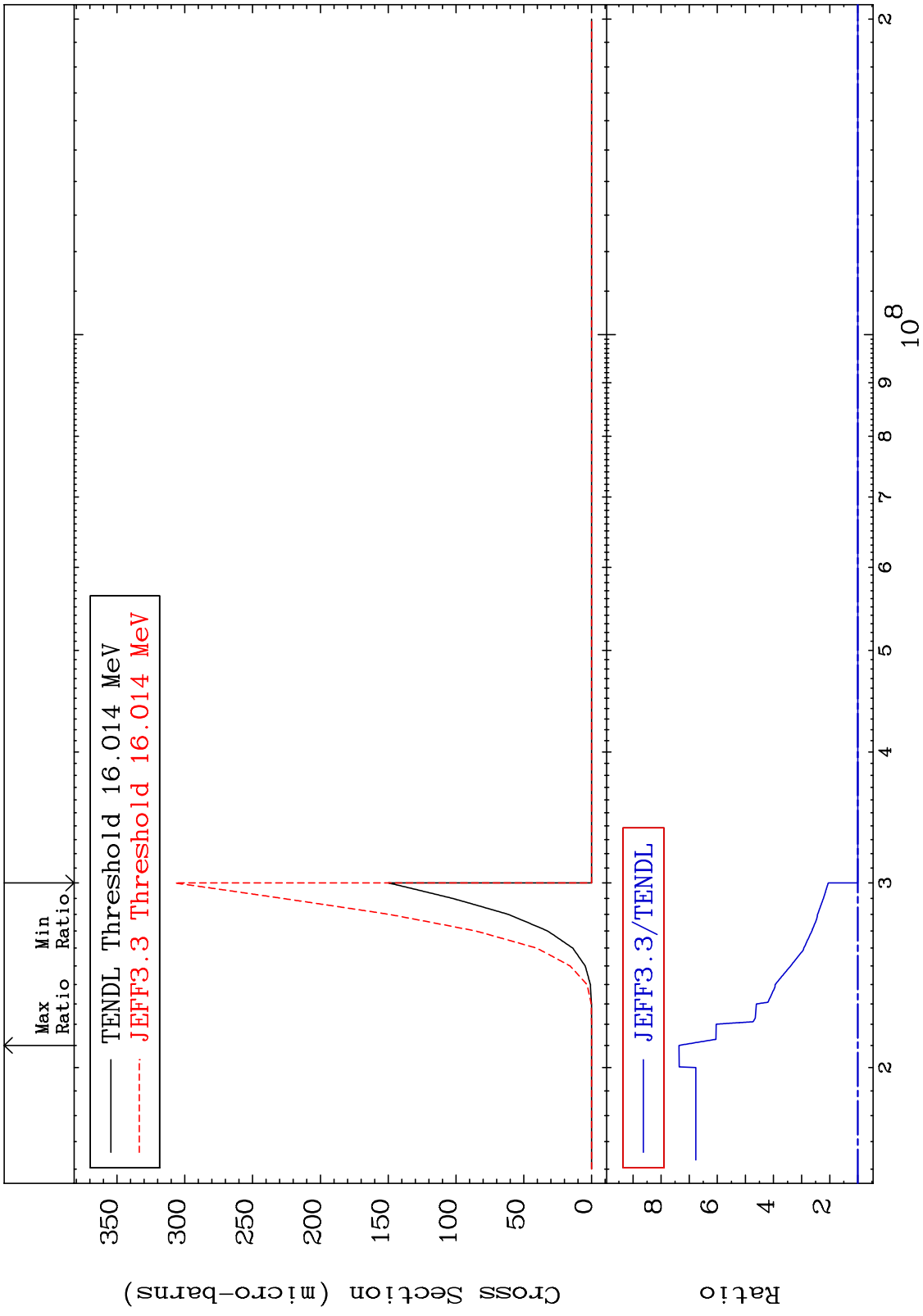


10

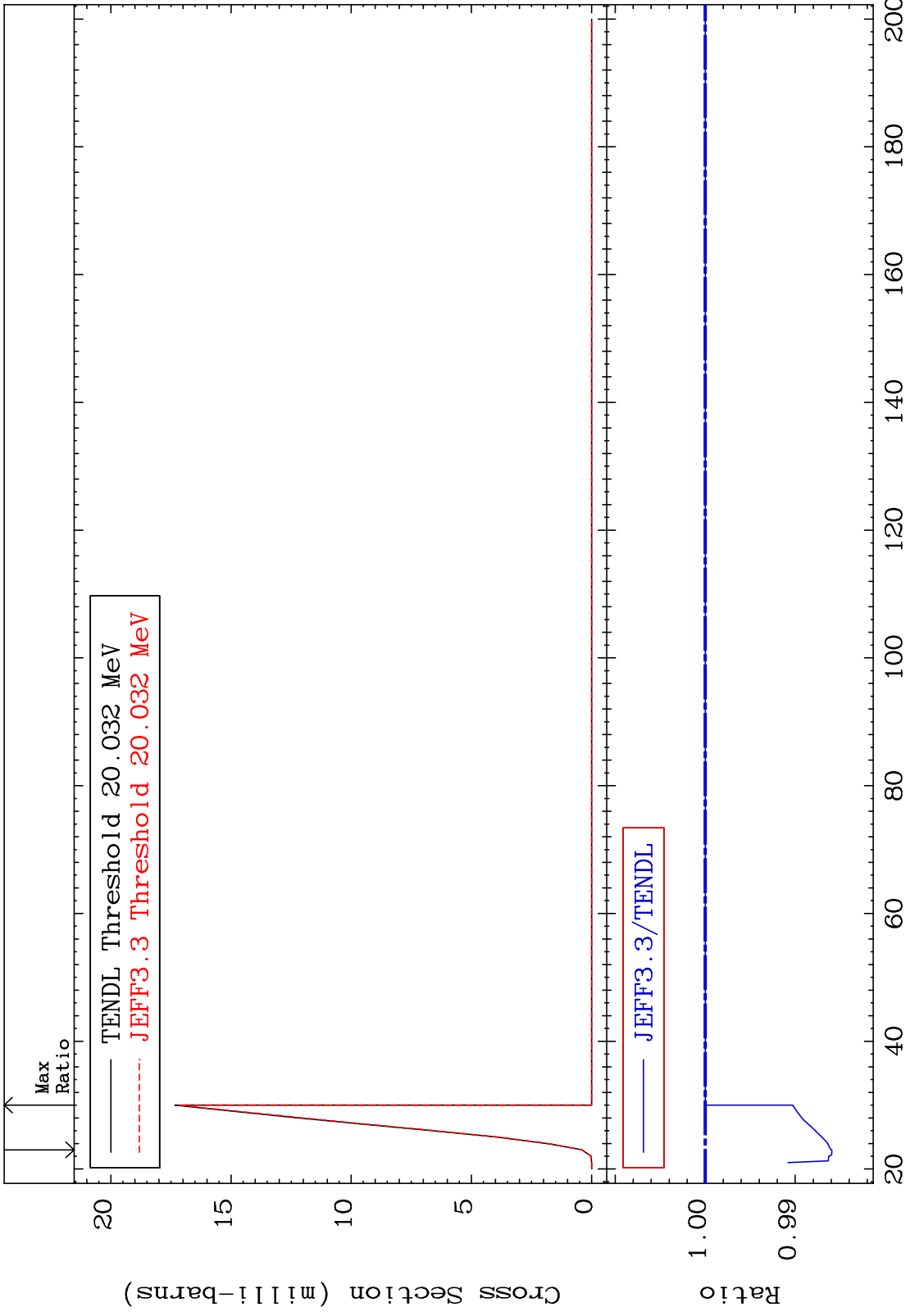
Incident Energy (eV)

20-Ca-44

MAT 2037 (n,n') 2α Cross Section 20-Ca-44 To 636.1 %

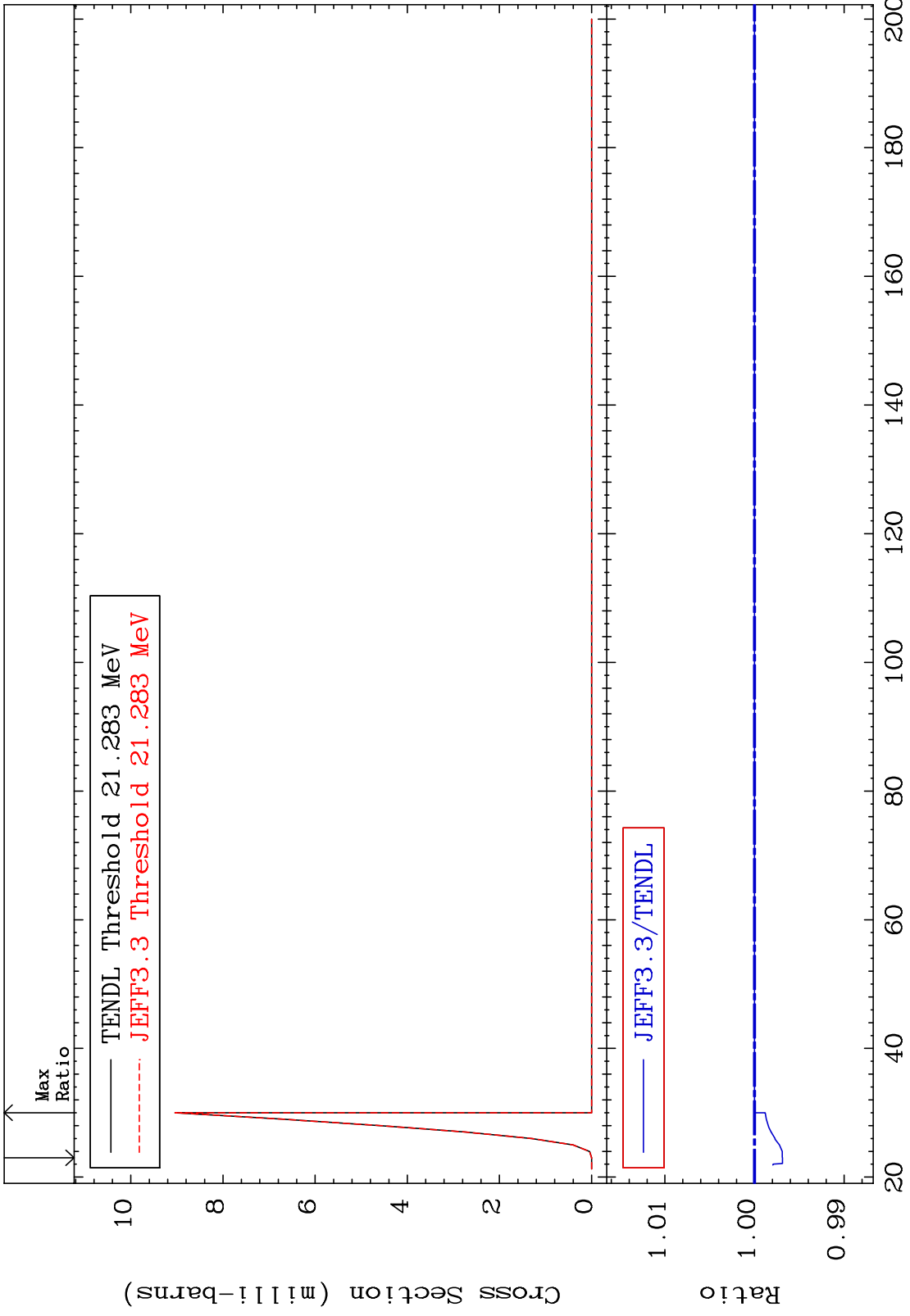


MAT 2037 (n,n') d 20-Ca-44  
 Cross Section -1.407 To 0.000 %

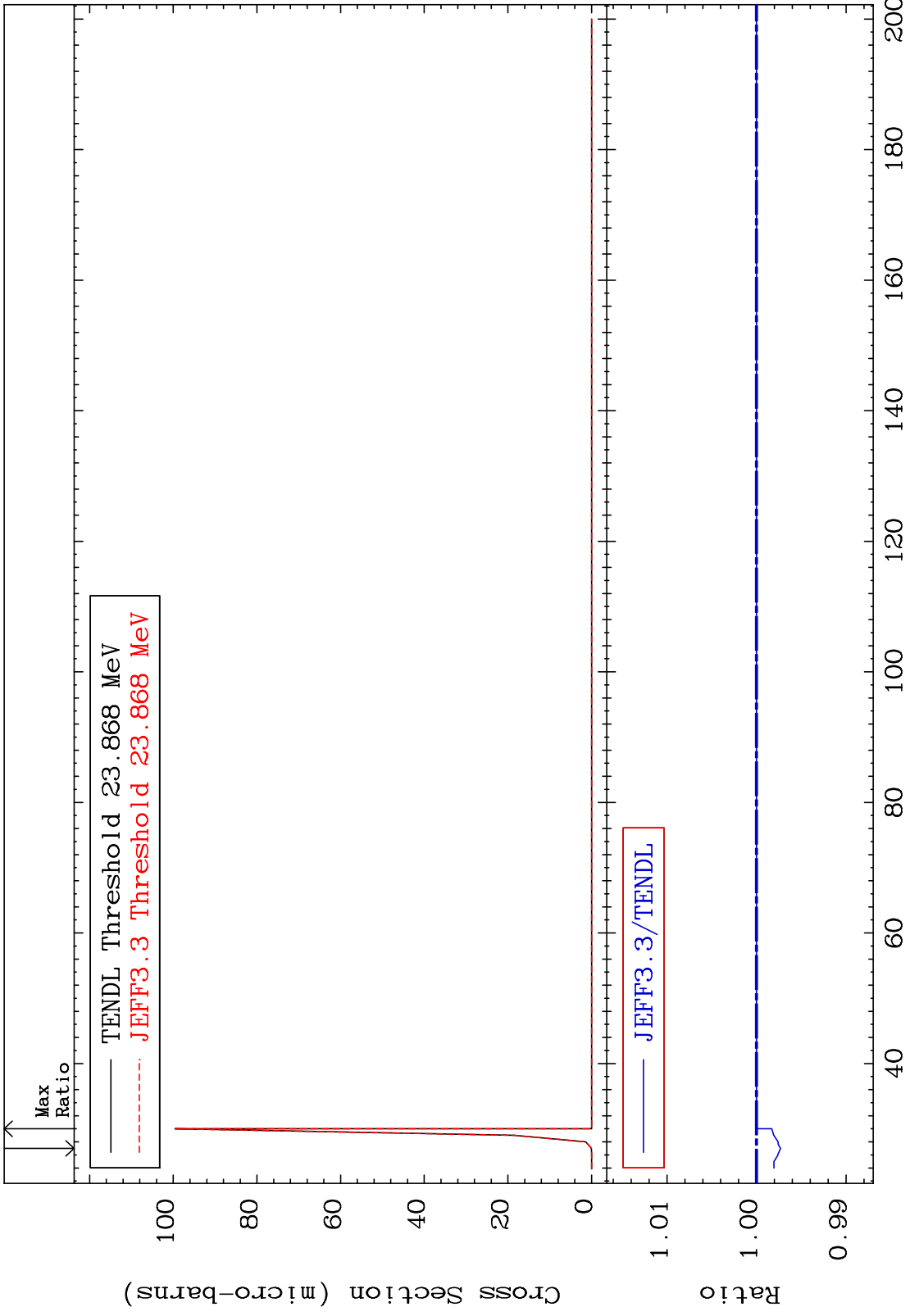


12 Incident Energy (MeV) 20-Ca-44

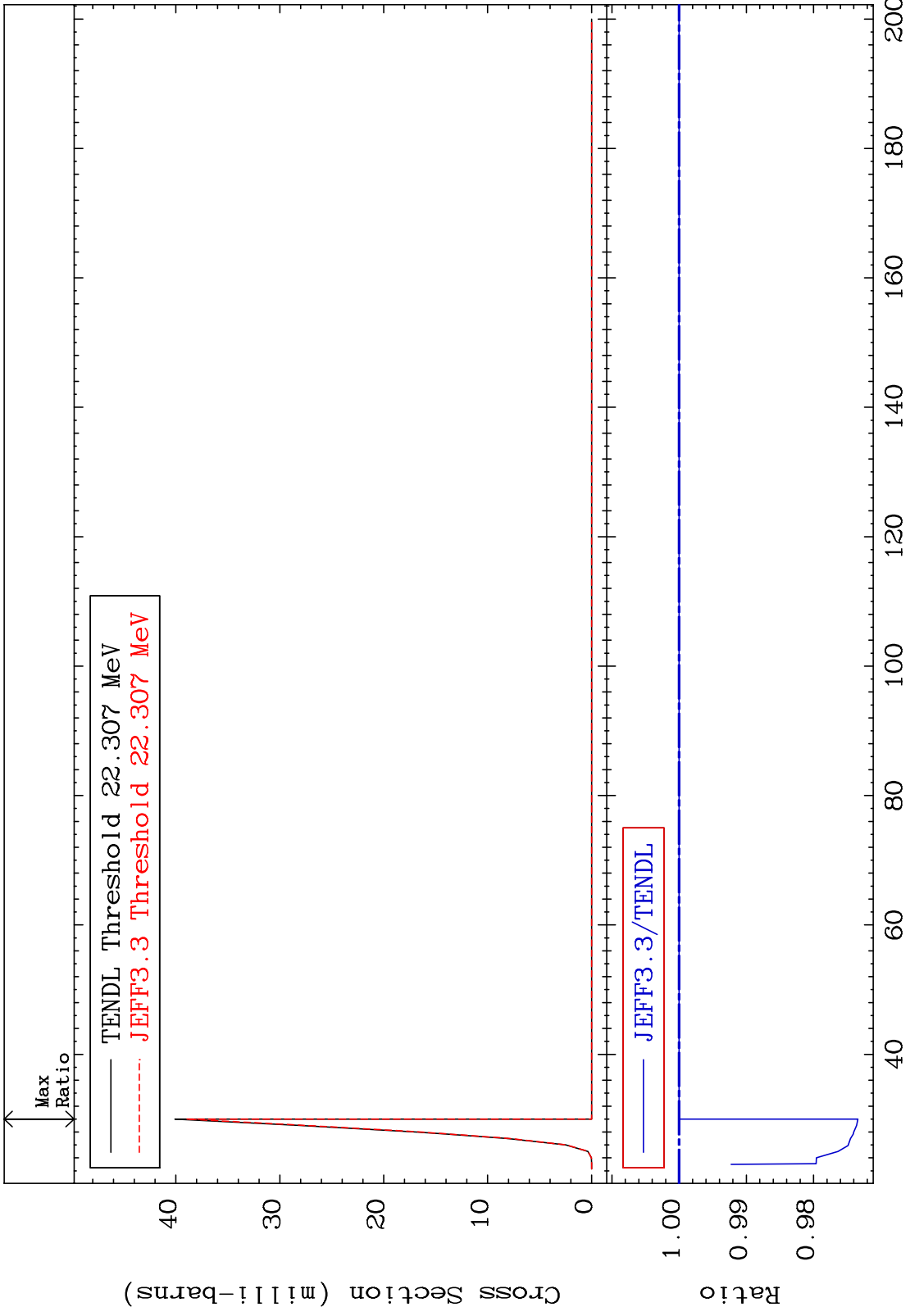
MAT 2037 (n,n') t 20-Ca-44  
 Cross Section -0.313 To 0.000 %



MAT 2037 (n, n') He-3 20-Ca-44  
 Cross Section -0.269 To 0.000 %

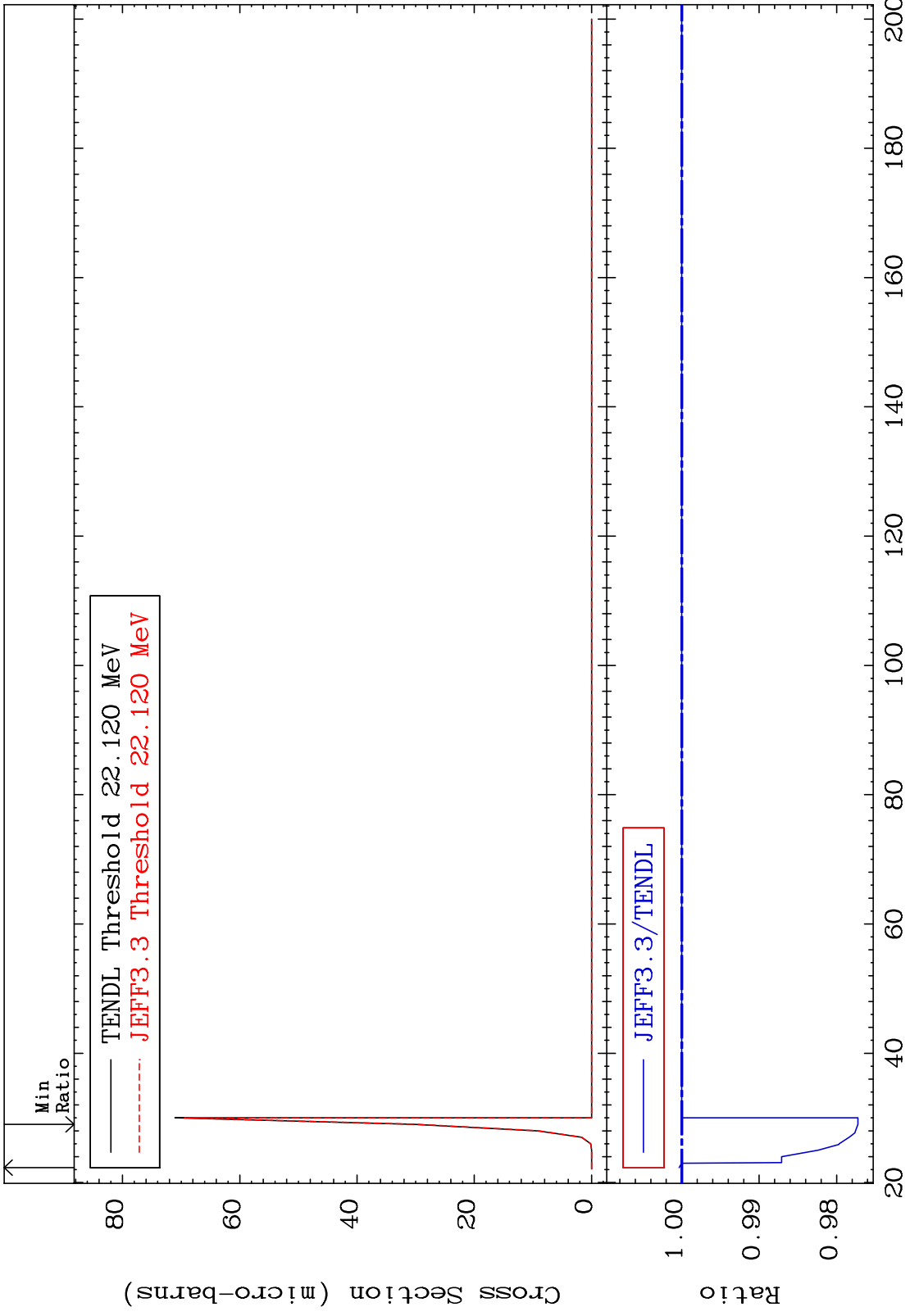


MAT 2037 (n,2n) p 20-Ca-44  
 Cross Section -2.661 To 0.000 %



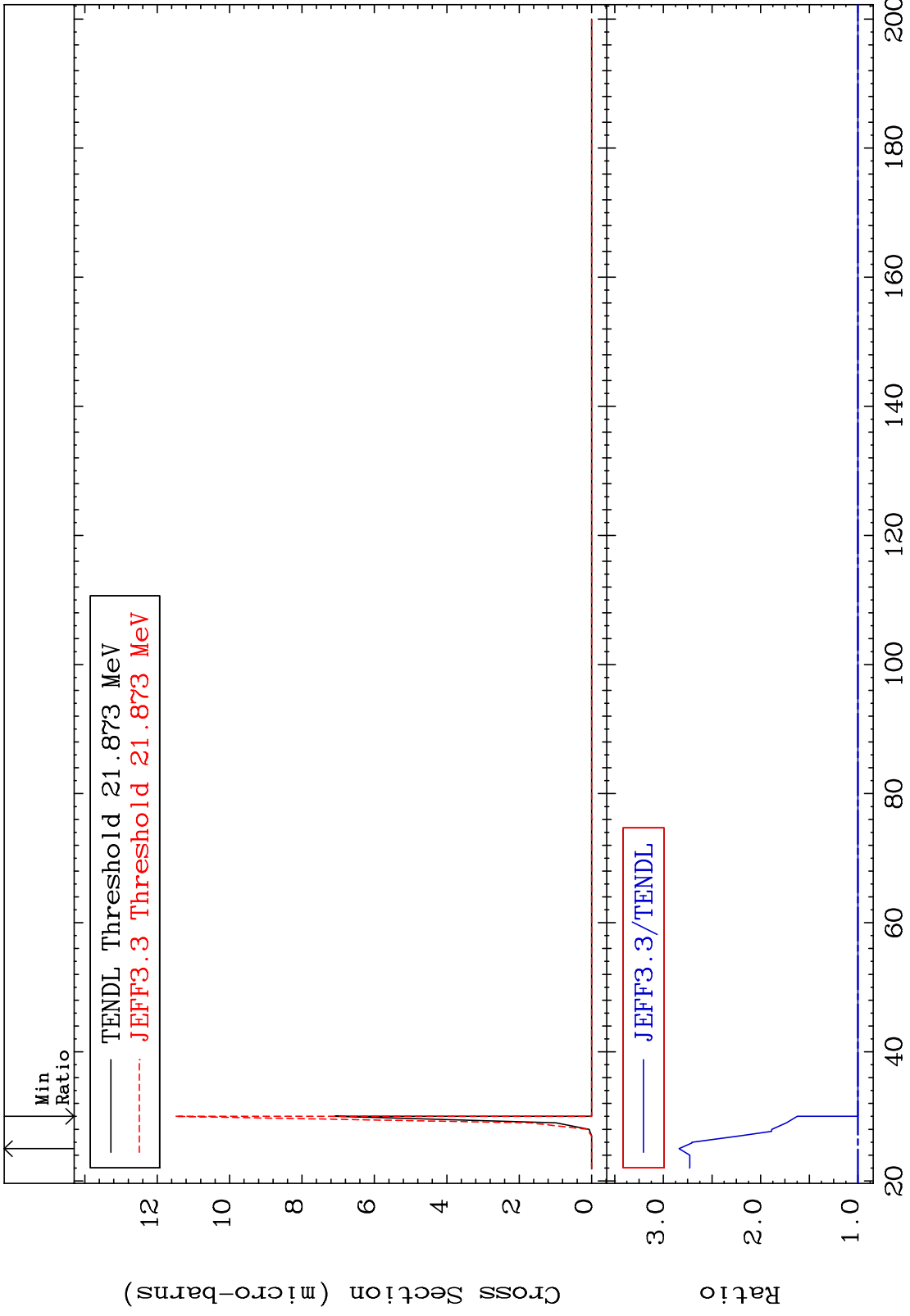


MAT 2037 (n,2n) p 20-Ca-44  
 Cross Section -2.275 To 0.034 %

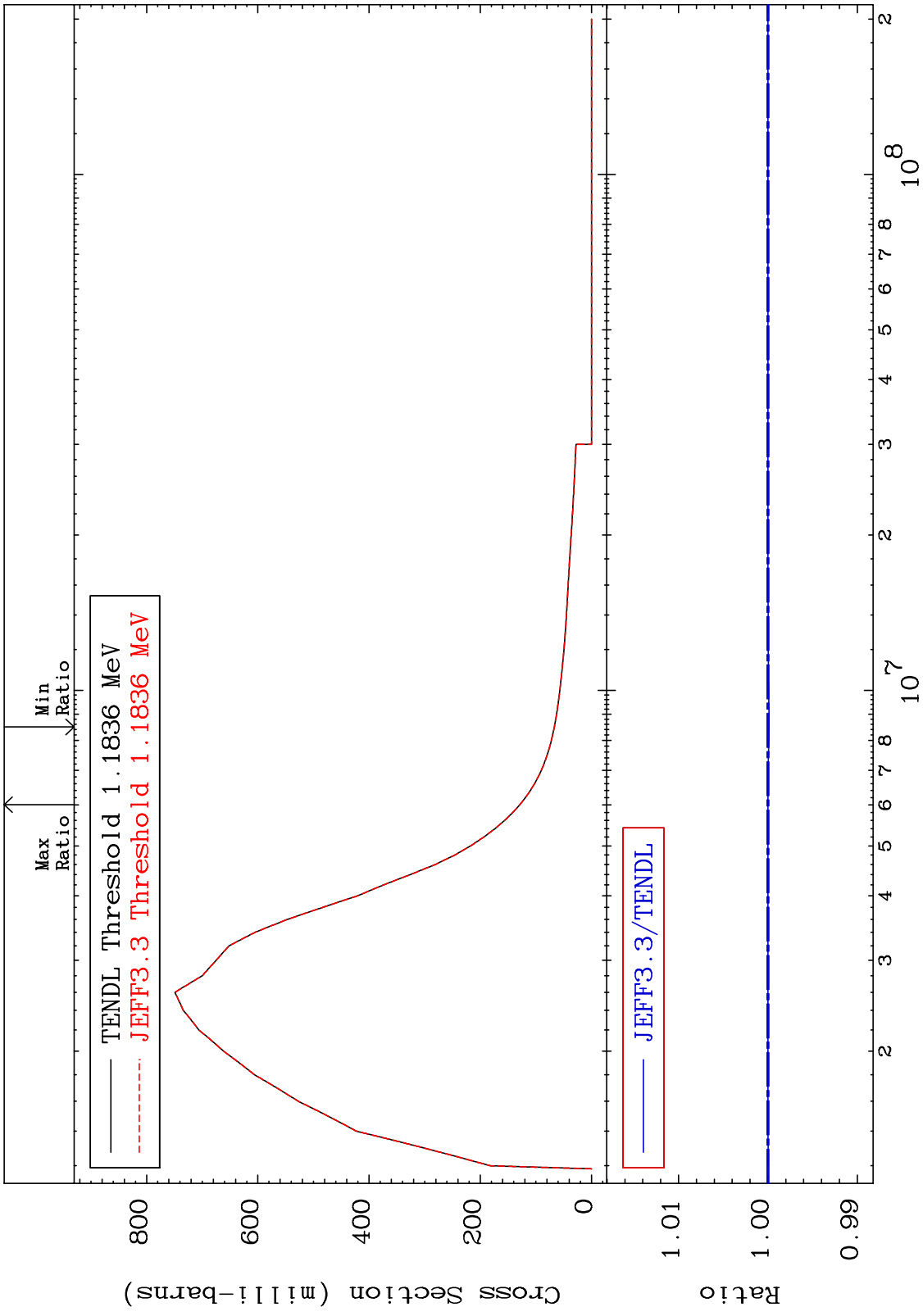


16 Incident Energy (MeV) 20-Ca-44

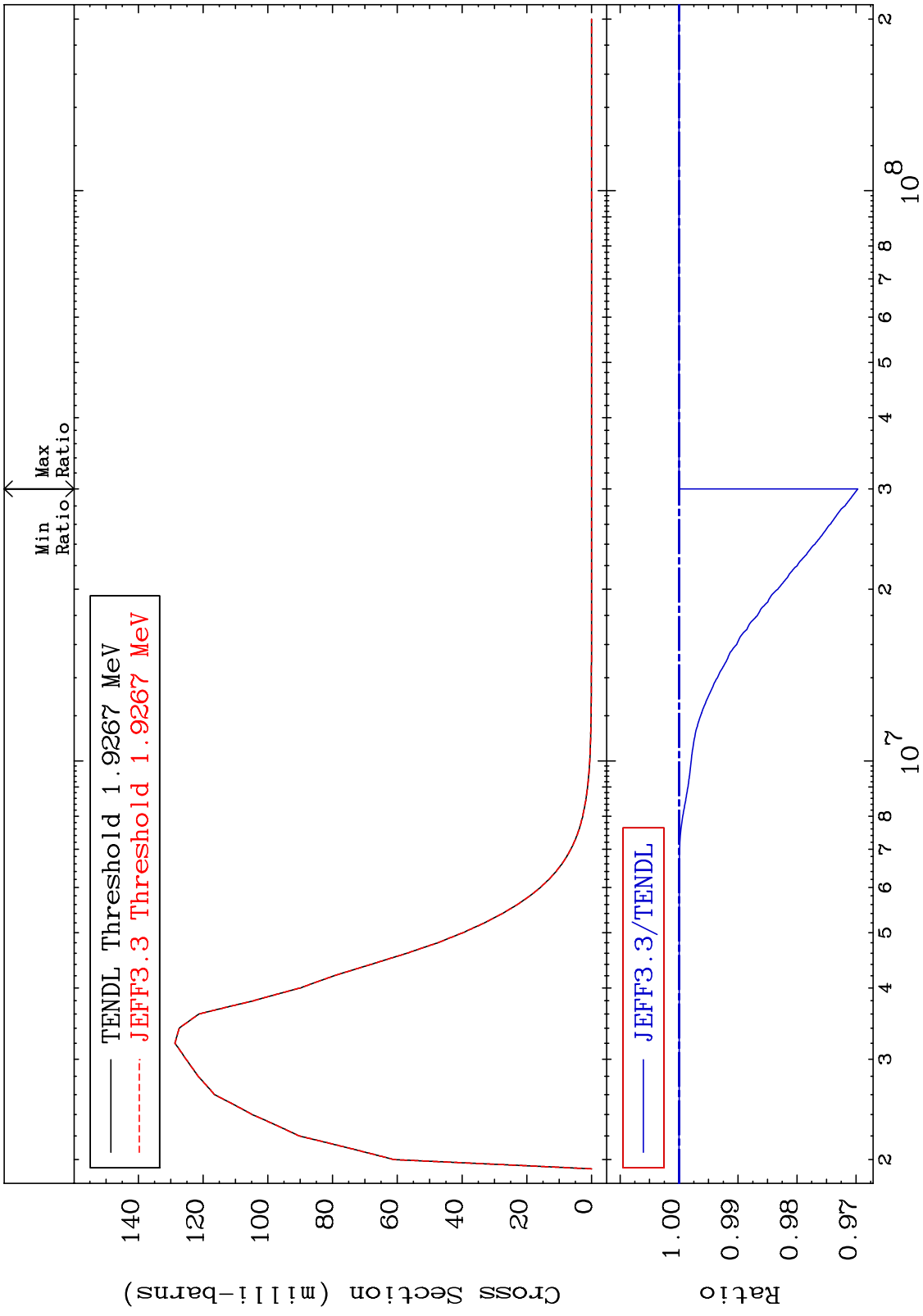
MAT 2037 (n,n') p  $\alpha$  20-Ca-44  
Cross Section 0.000 To 183.8 %



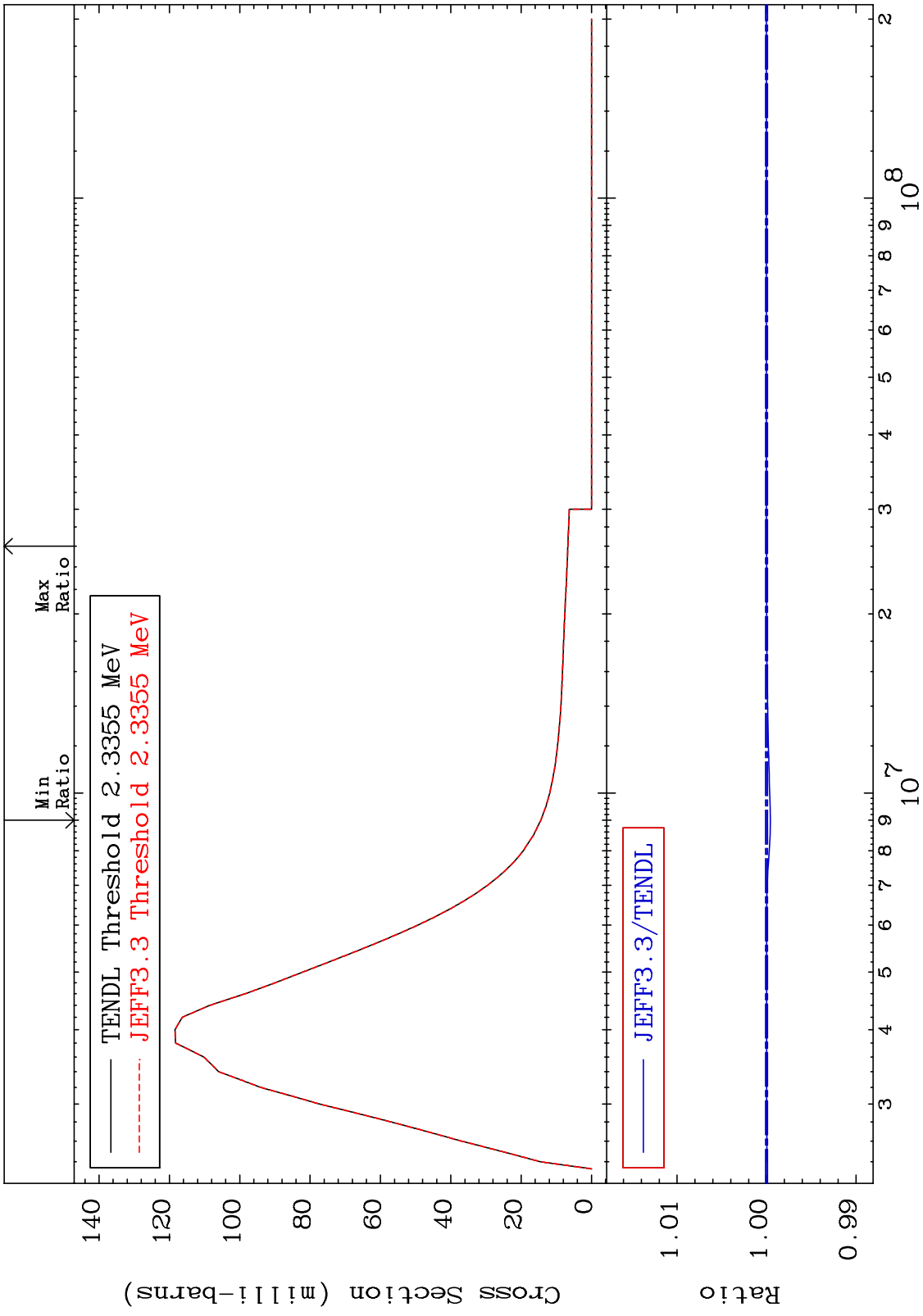
MAT 2037 MT= 51 (n,n') Level Cross Section -0.012 To 0.000 % 20-Ca-44



MAT 2037 MT= 52 (n,n') Level Cross Section -3.032 To 0.000 % 20-Ca-44



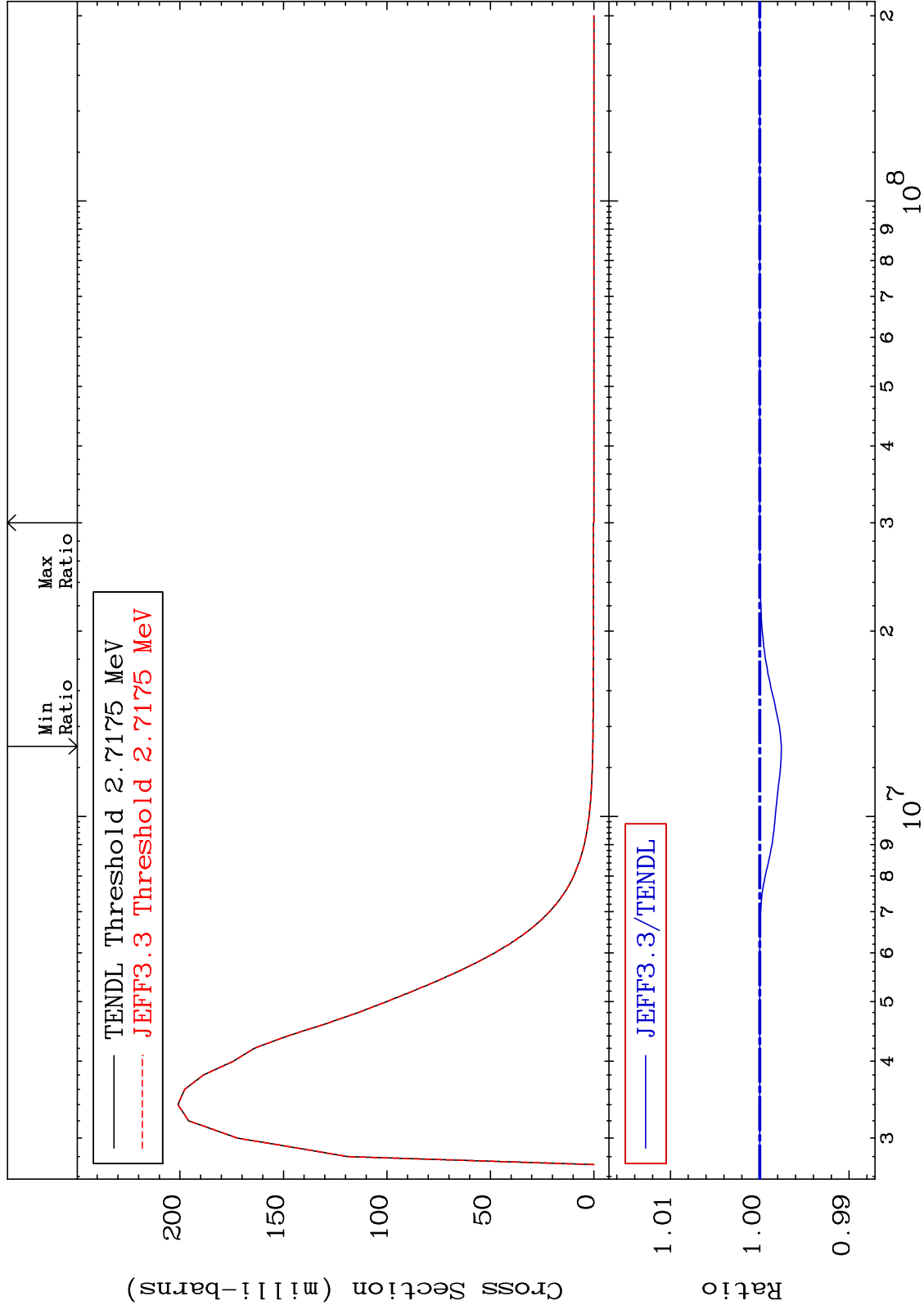
MAT 2037 MT= 53 (n, n') Level Cross Section 20-Ca-44  
 -0.043 To 0.000 %



MAT 2037

MT= 54 (n,n') Level  
Cross Section

20-Ca-44  
-0.241 To 0.000 %



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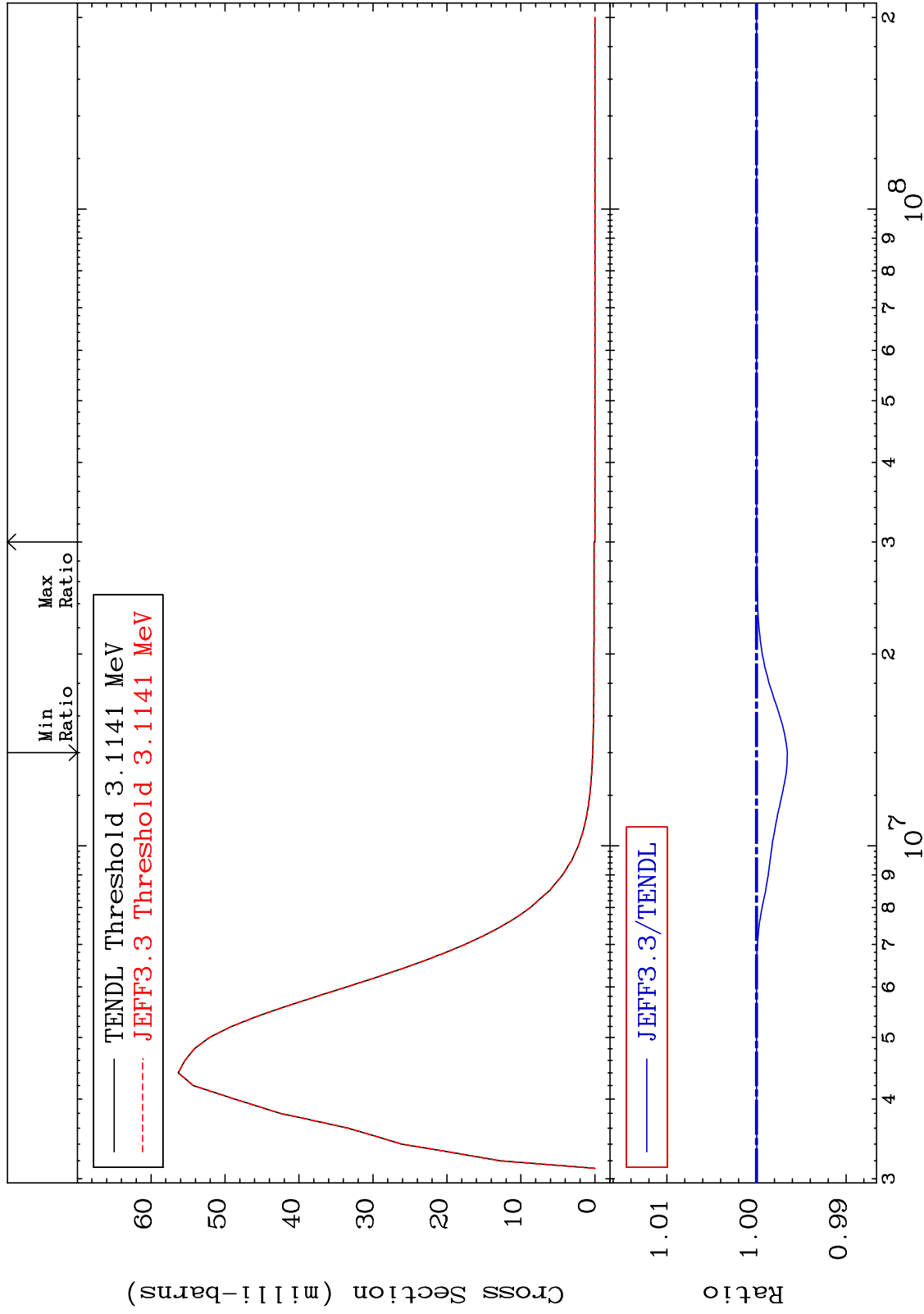
Incident Energy (eV)

20-Ca-44

MAT 2037

MT= 55 (n,n') Level  
Cross Section

20-Ca-44  
-0.344 To 0.000 %



22

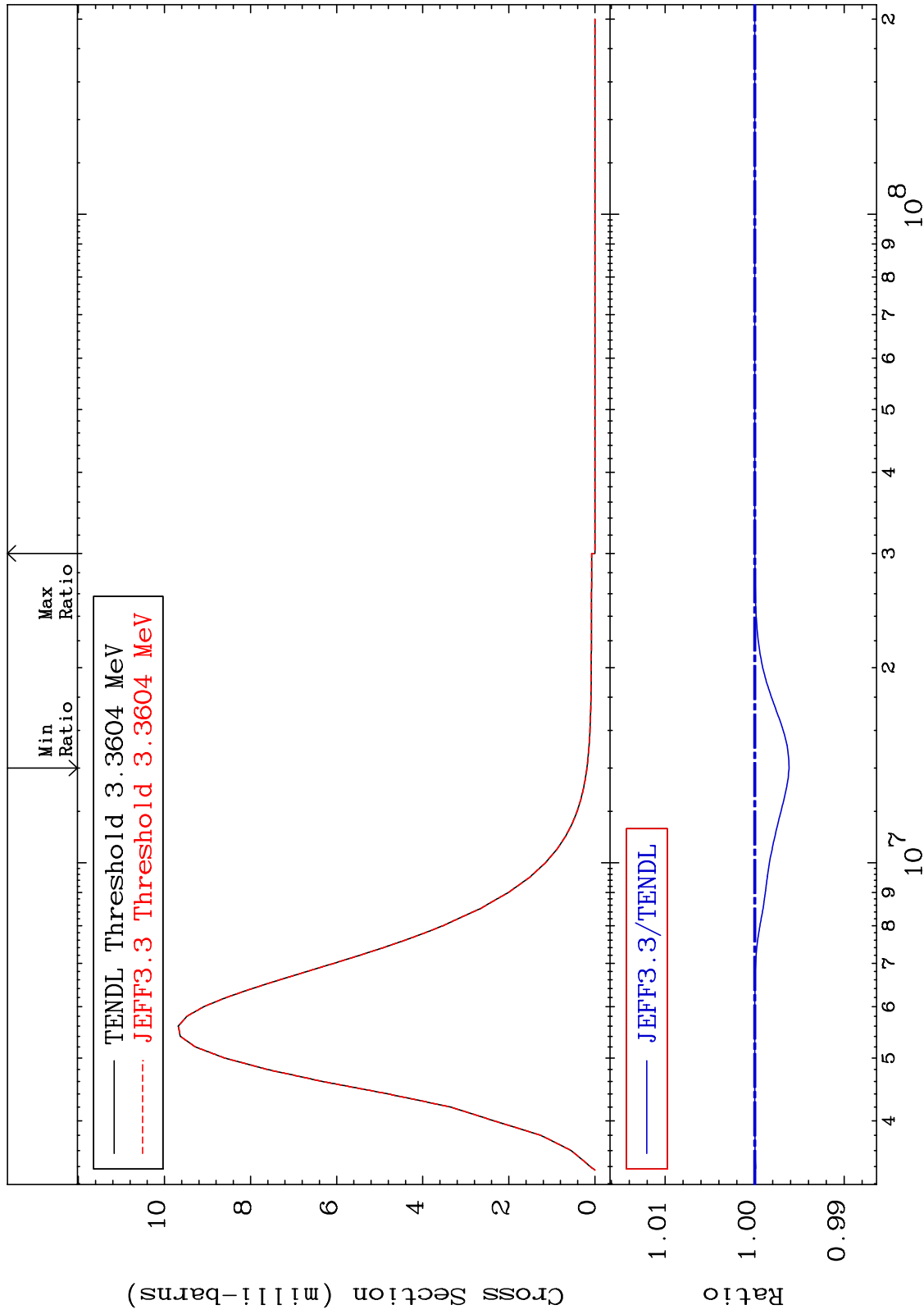
Incident Energy (eV)

20-Ca-44

MAT 2037

MT= 56 (n,n') Level  
Cross Section

20-Ca-44  
-0.383 To 0.000 %

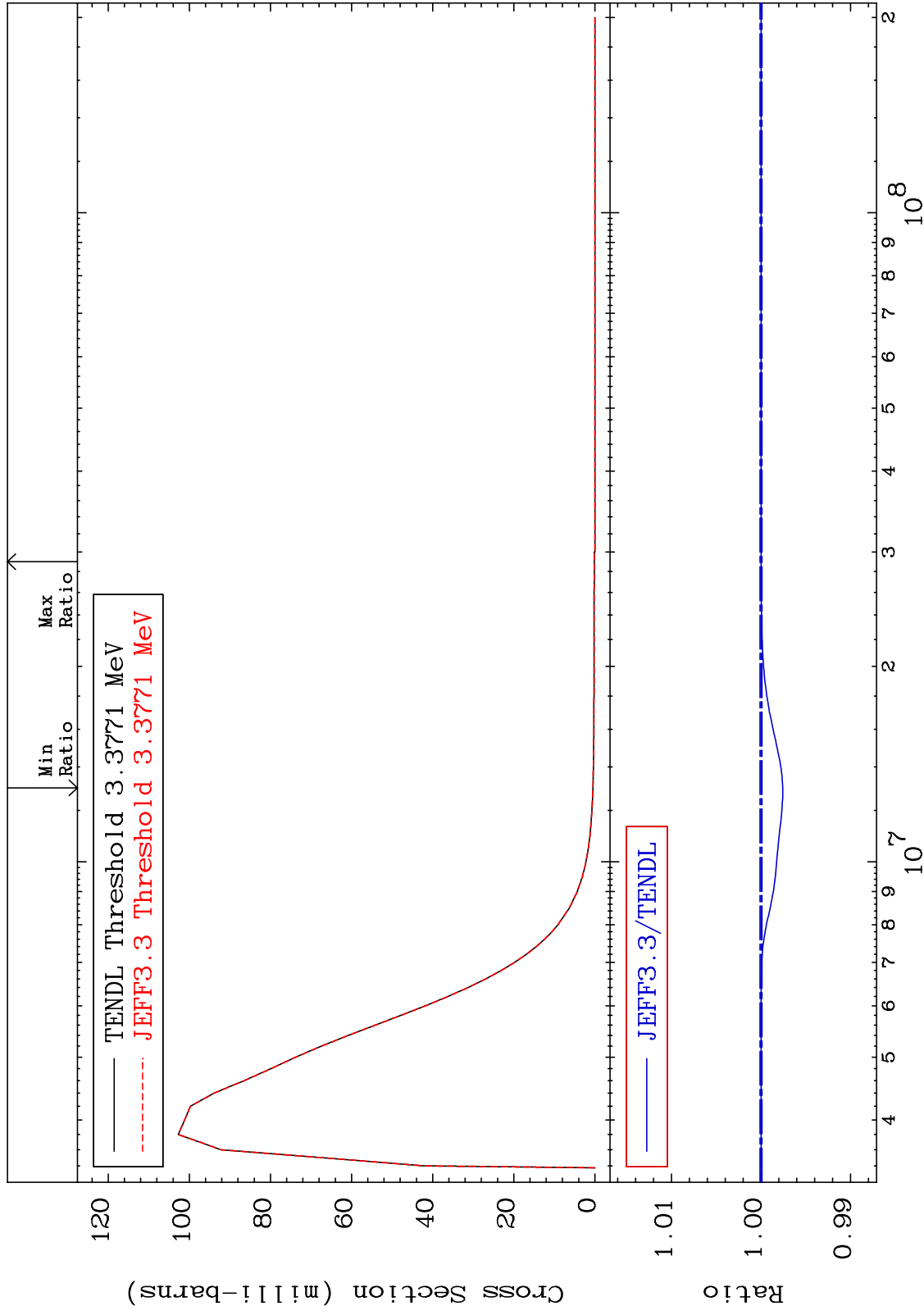




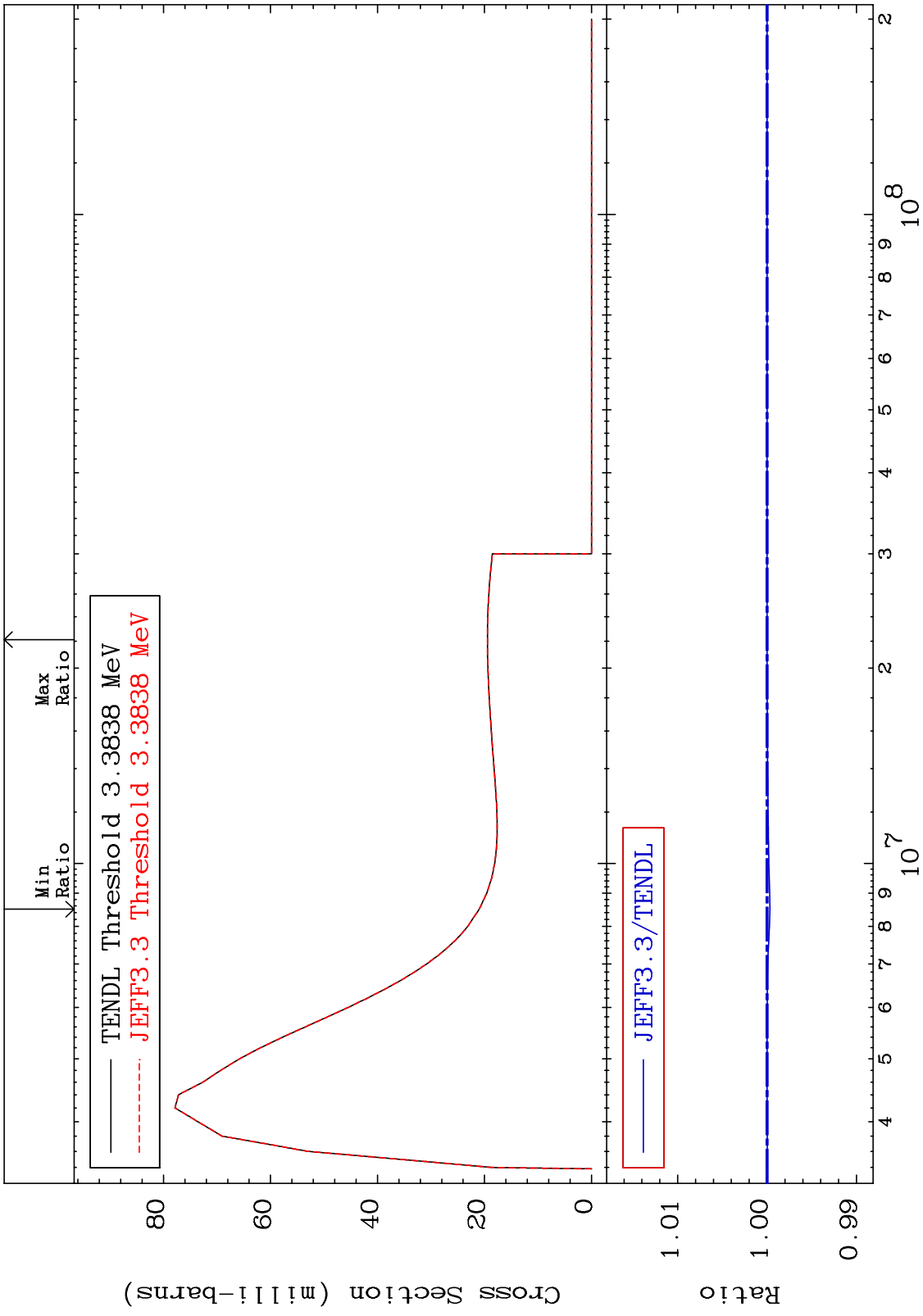
MAT 2037

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

20-Ca-44  
-0.243 To 0.000 %



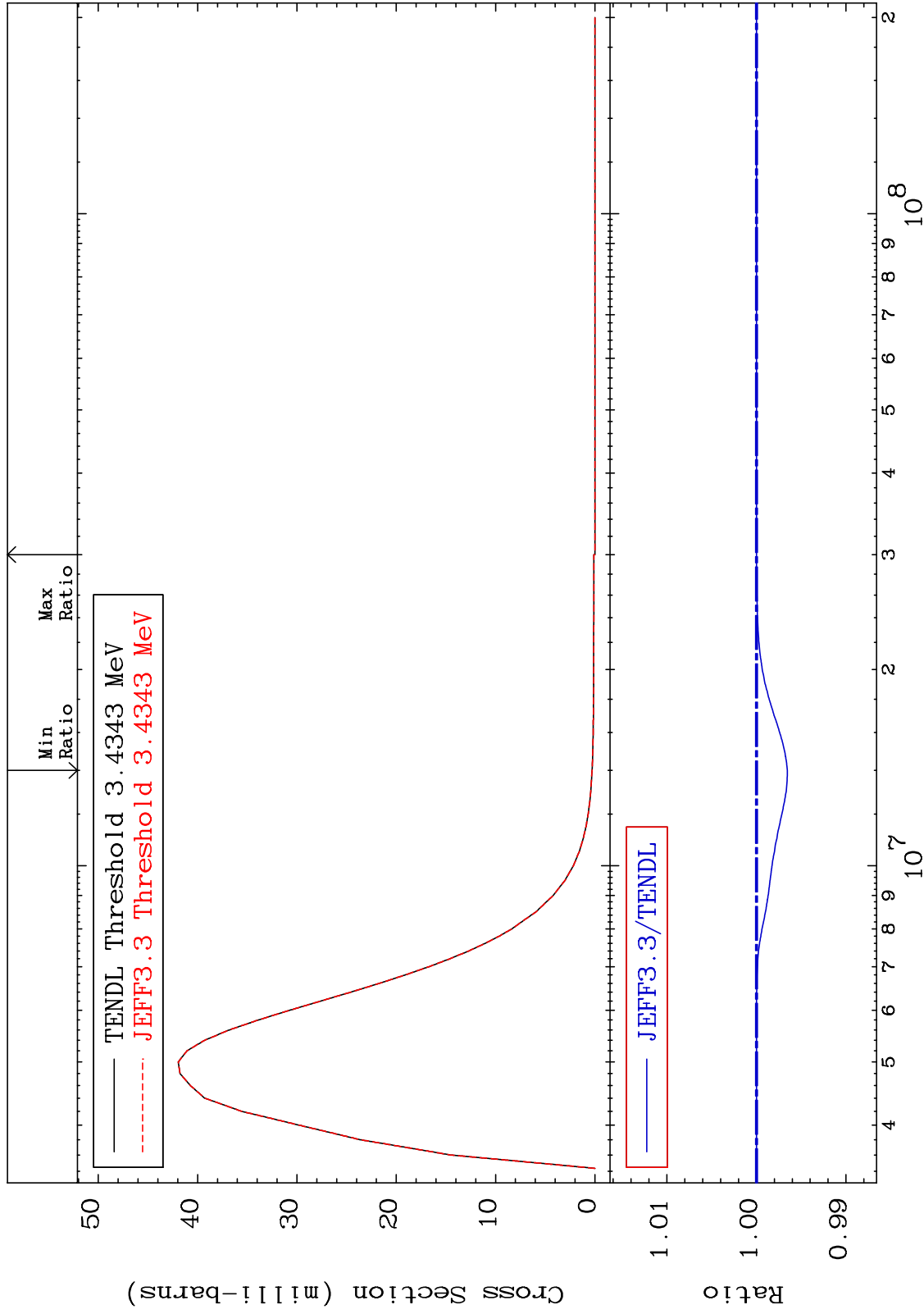
MAT 2037 MT= 58 (n,n') Level Cross Section 20-Ca-44  
 -0.030 To 0.000 %



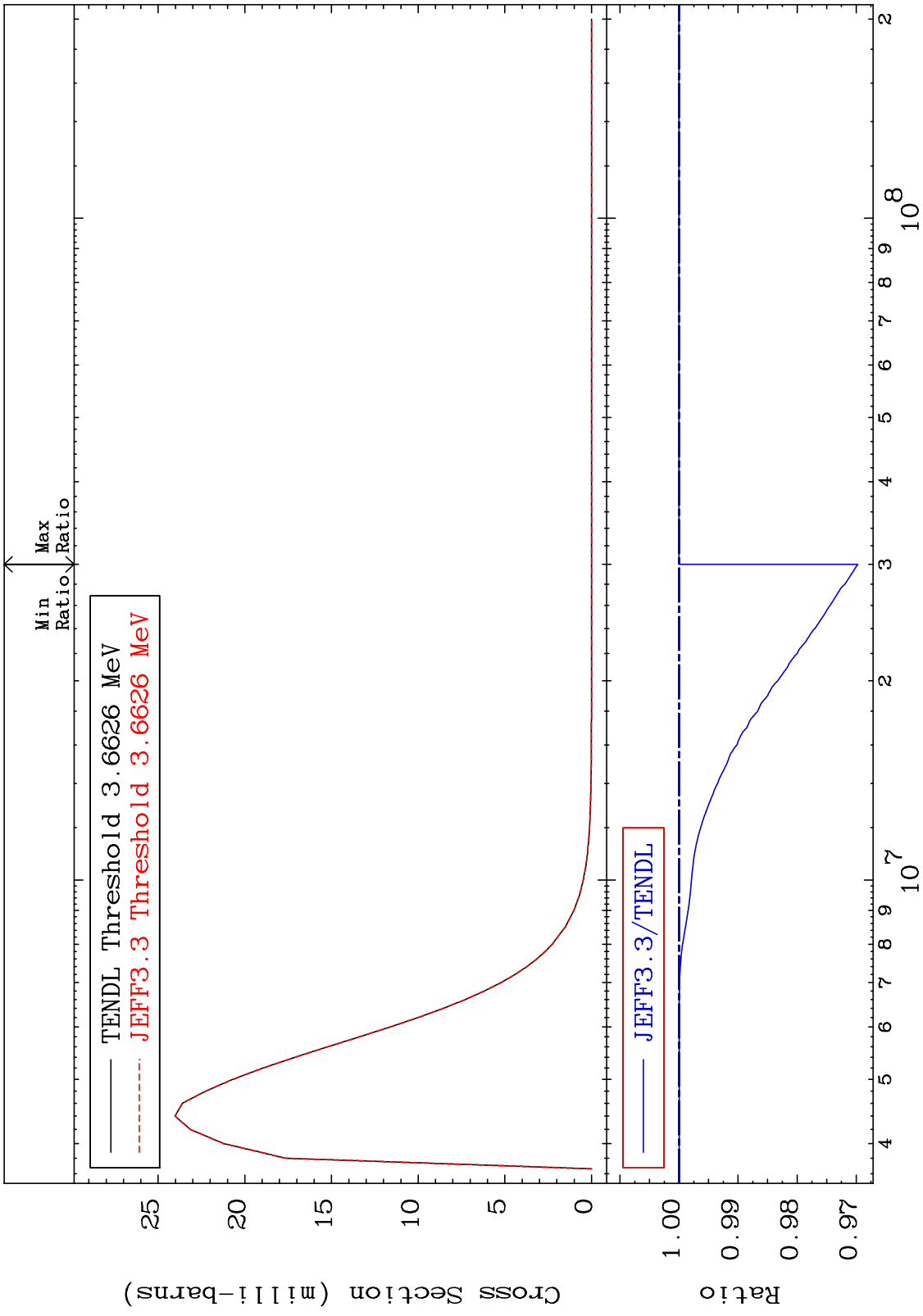
MAT 2037

MT= 59 (n, n') Level  
Cross Section

20-Ca-44  
-0.345 To 0.000 %



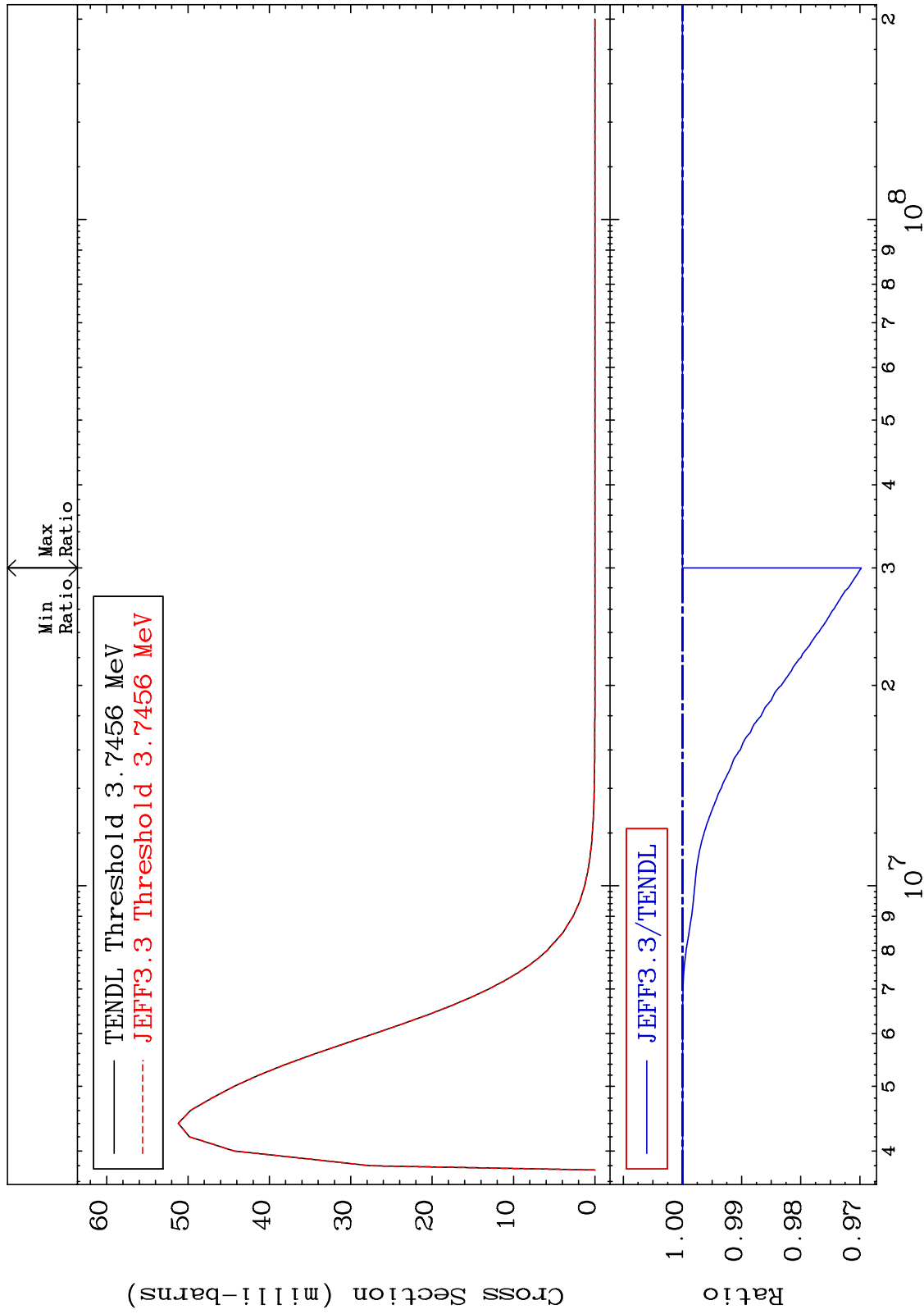
MAT 2037 MT= 60 (n,n') Level Cross Section -3.028 To 0.000 % 20-Ca-44



MAT 2037

MT= 61 (n,n') Level  
Cross Section

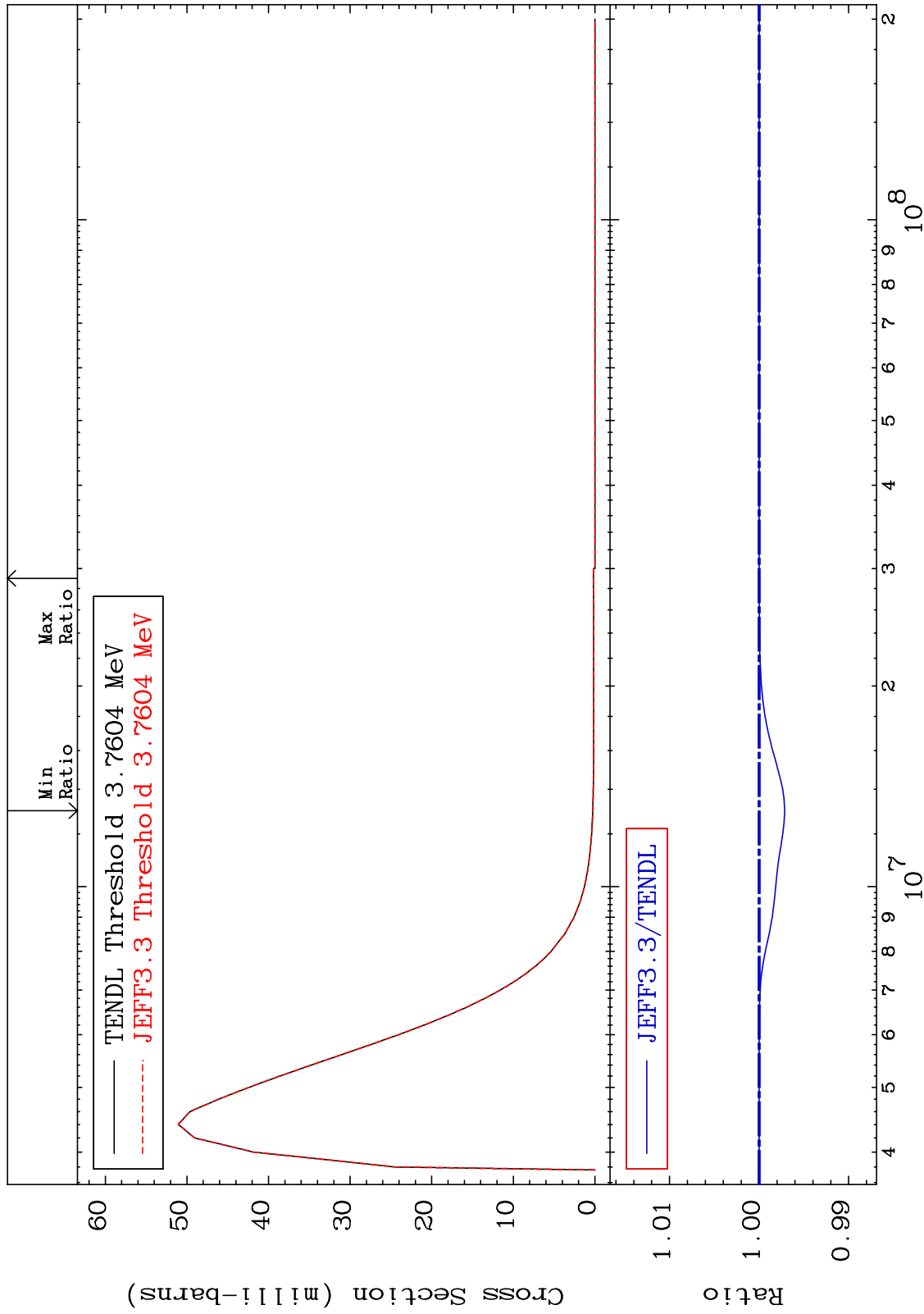
20-Ca-44  
-3.023 To 0.000 %



MAT 2037

MT= 62 (n,n') Level  
Cross Section

20-Ca-44  
-0.285 To 0.000 %



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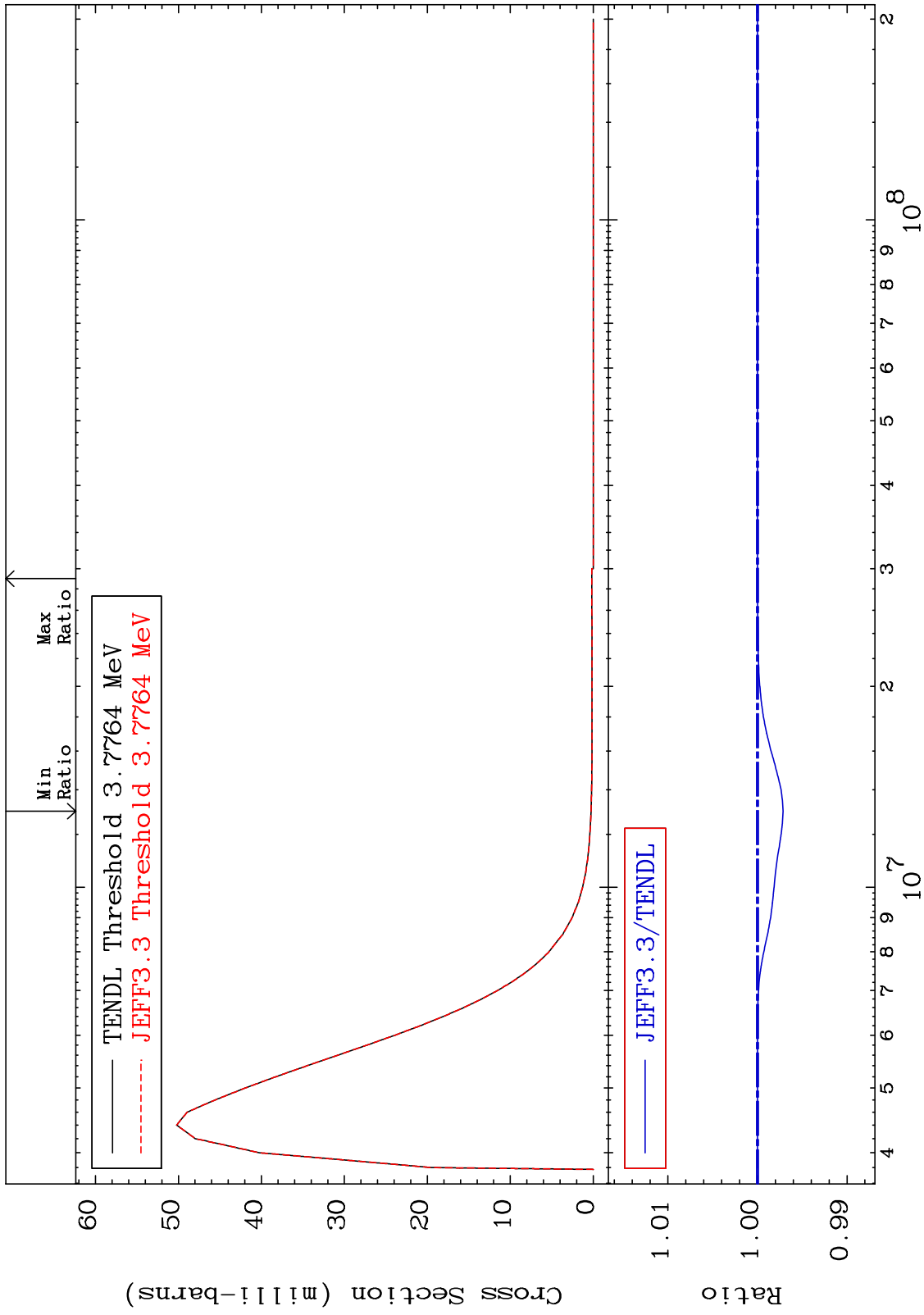
Incident Energy (eV)

20-Ca-44

MAT 2037

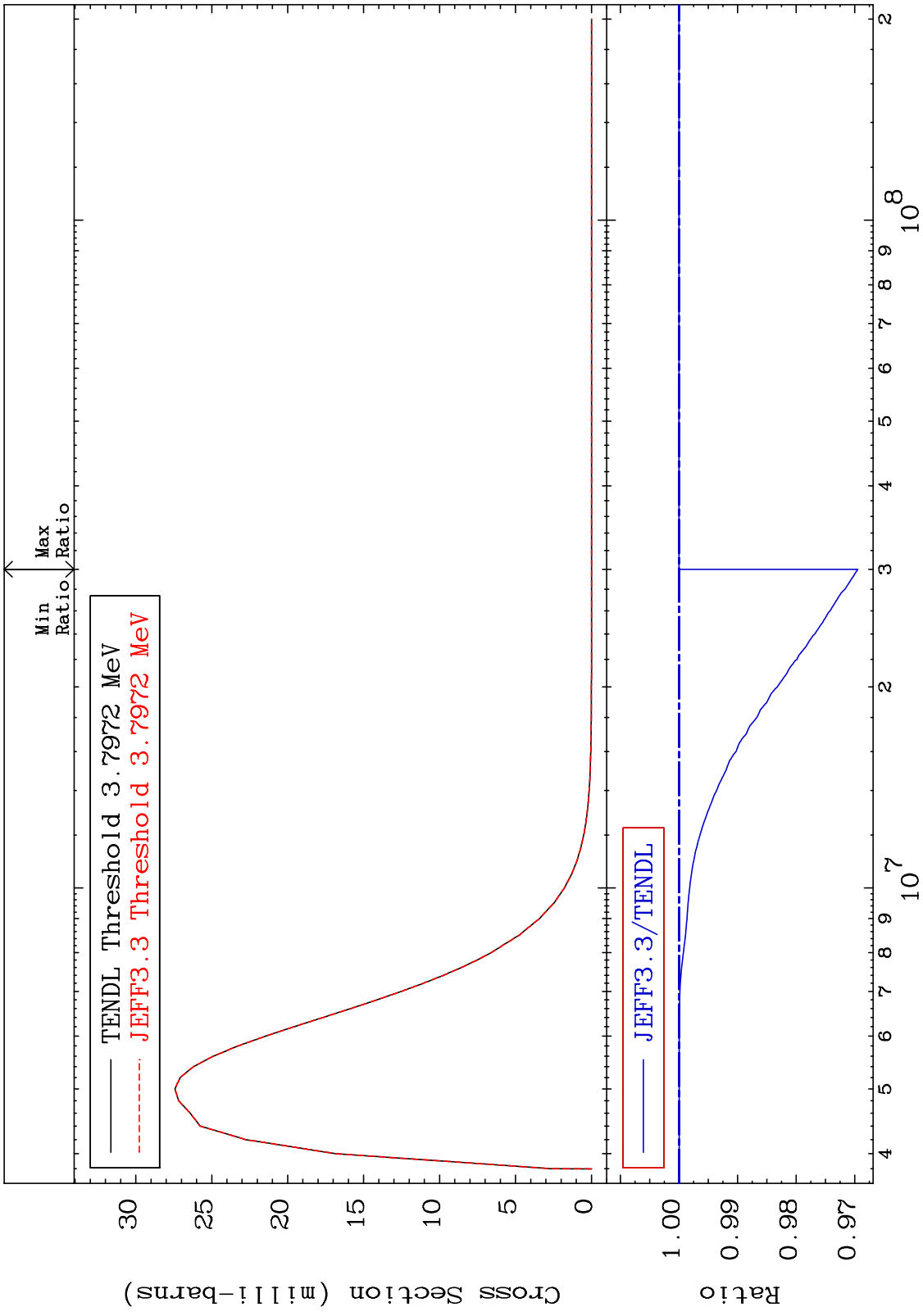
MT= 63 (n,n') Level  
Cross Section

20-Ca-44  
-0.285 To 0.000 %



30

MAT 2037 MT= 64 (n,n') Level Cross Section -3.053 To 0.000 % 20-Ca-44

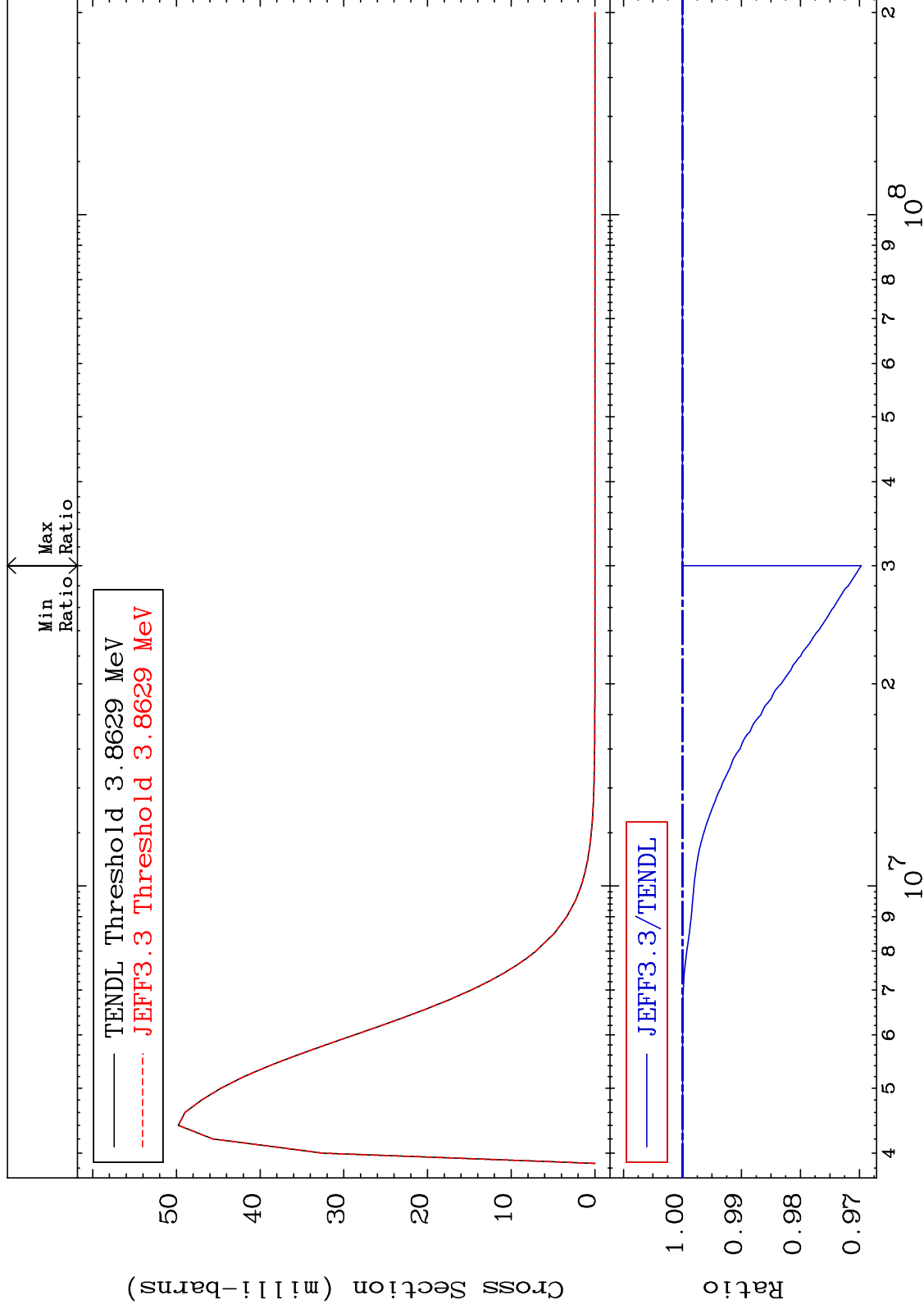




MAT 2037

MT= 65 (n,n') Level  
Cross Section

20-Ca-44  
-3.032 To 0.000 %



32

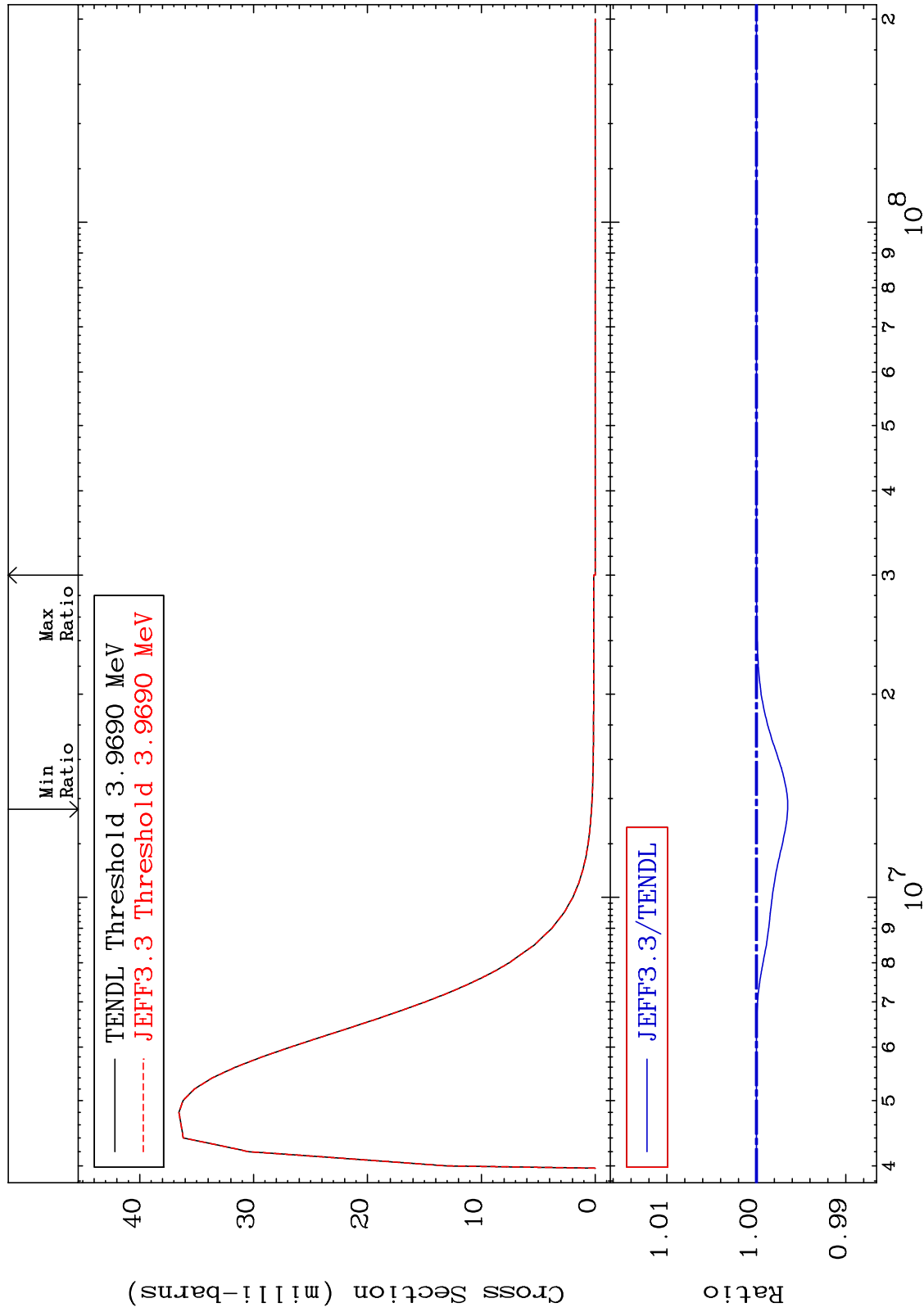
Incident Energy (eV)

20-Ca-44

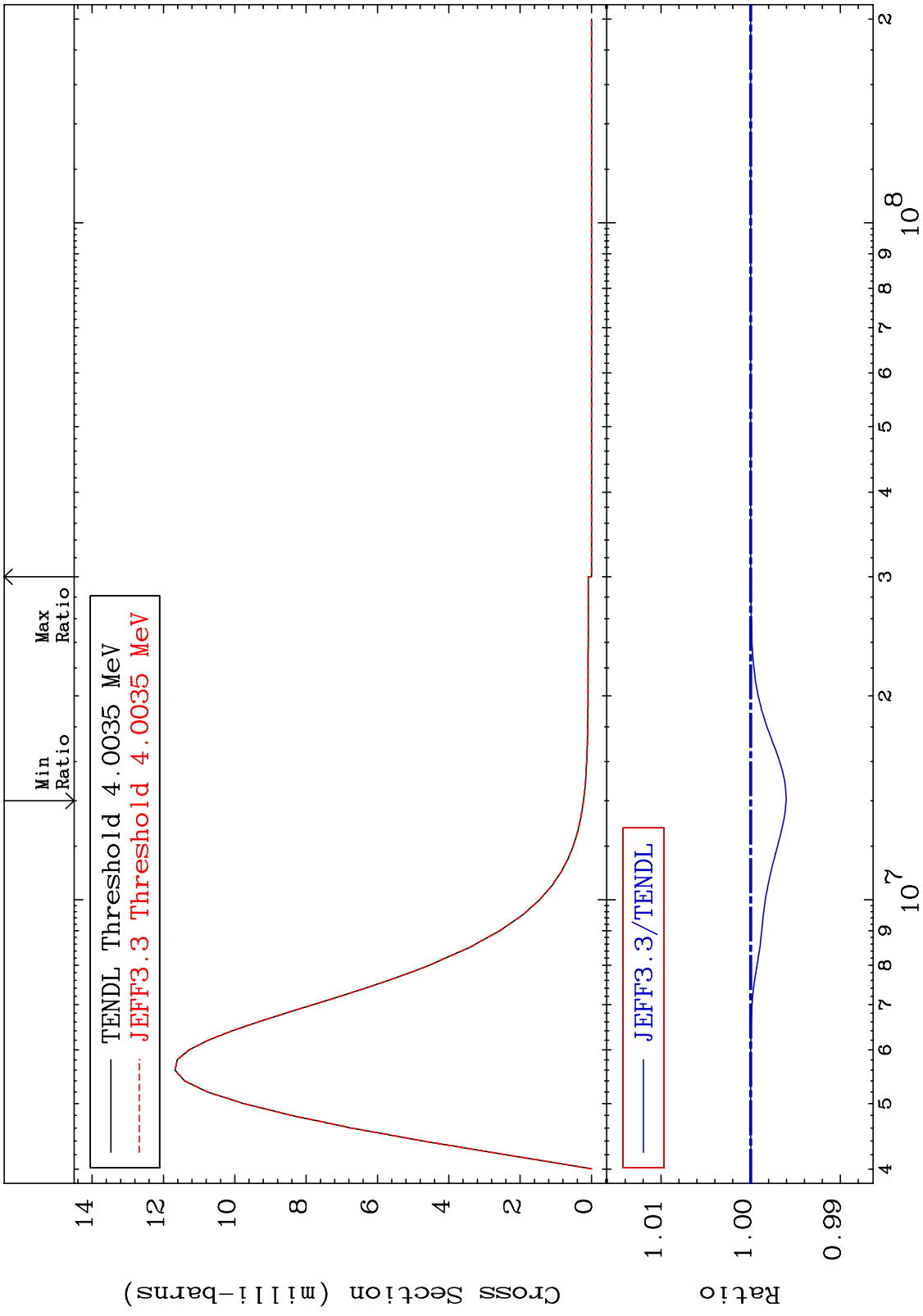
MAT 2037

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

20-Ca-44  
-0.349 To 0.000 %



MAT 2037 MT= 67 (n,n') Level Cross Section -0.397 To 0.000 % 20-Ca-44

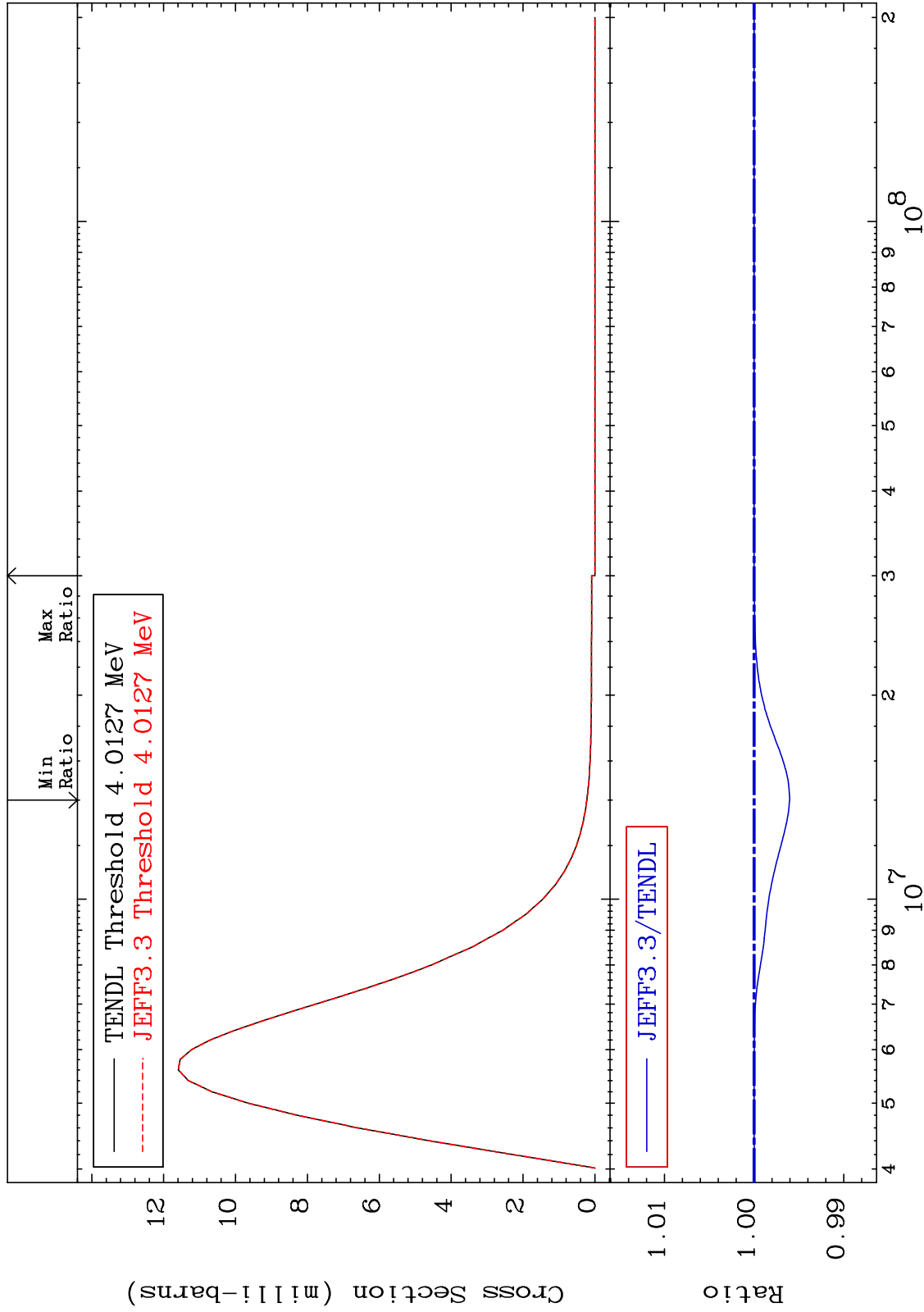


34 Incident Energy (eV) 20-Ca-44

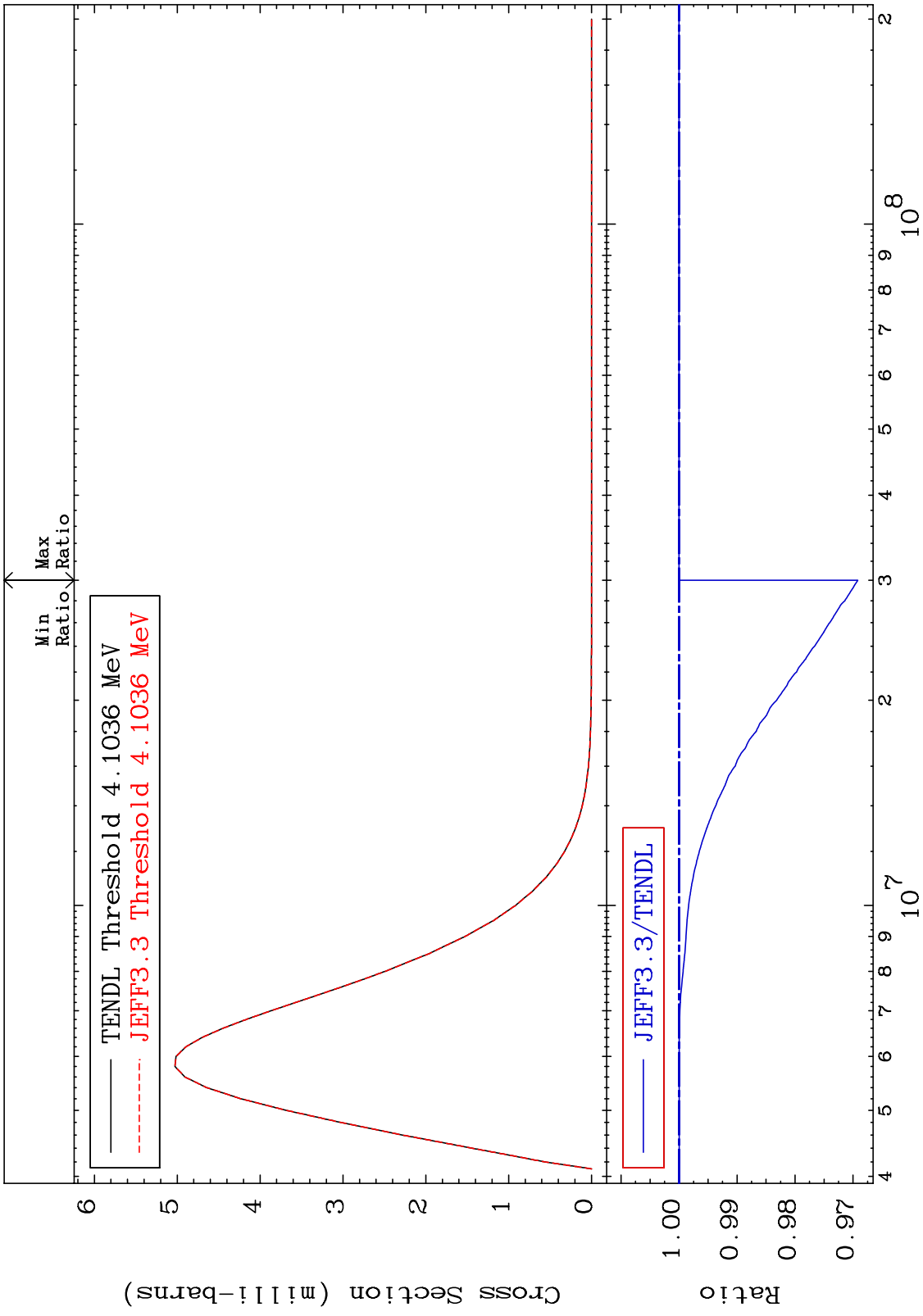
MAT 2037

MT= 68 (n,n') Level  
Cross Section

20-Ca-44  
-0.397 To 0.000 %



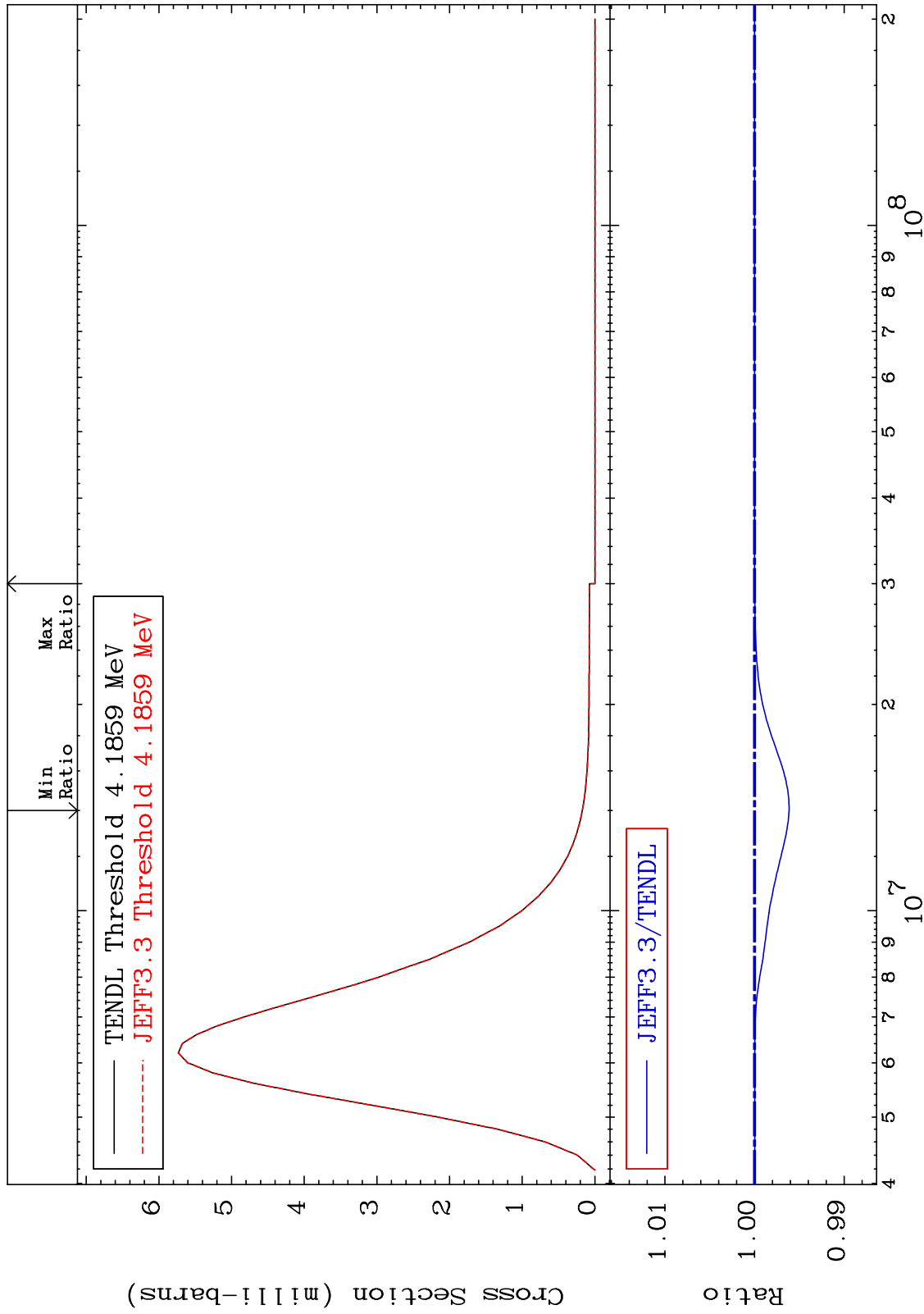
MAT 2037 MT= 69 (n,n') Level Cross Section -3.082 To 0.000 % 20-Ca-44



MAT 2037

MT= 70 (n,n') Level  
Cross Section

20-Ca-44  
-0.386 To 0.000 %



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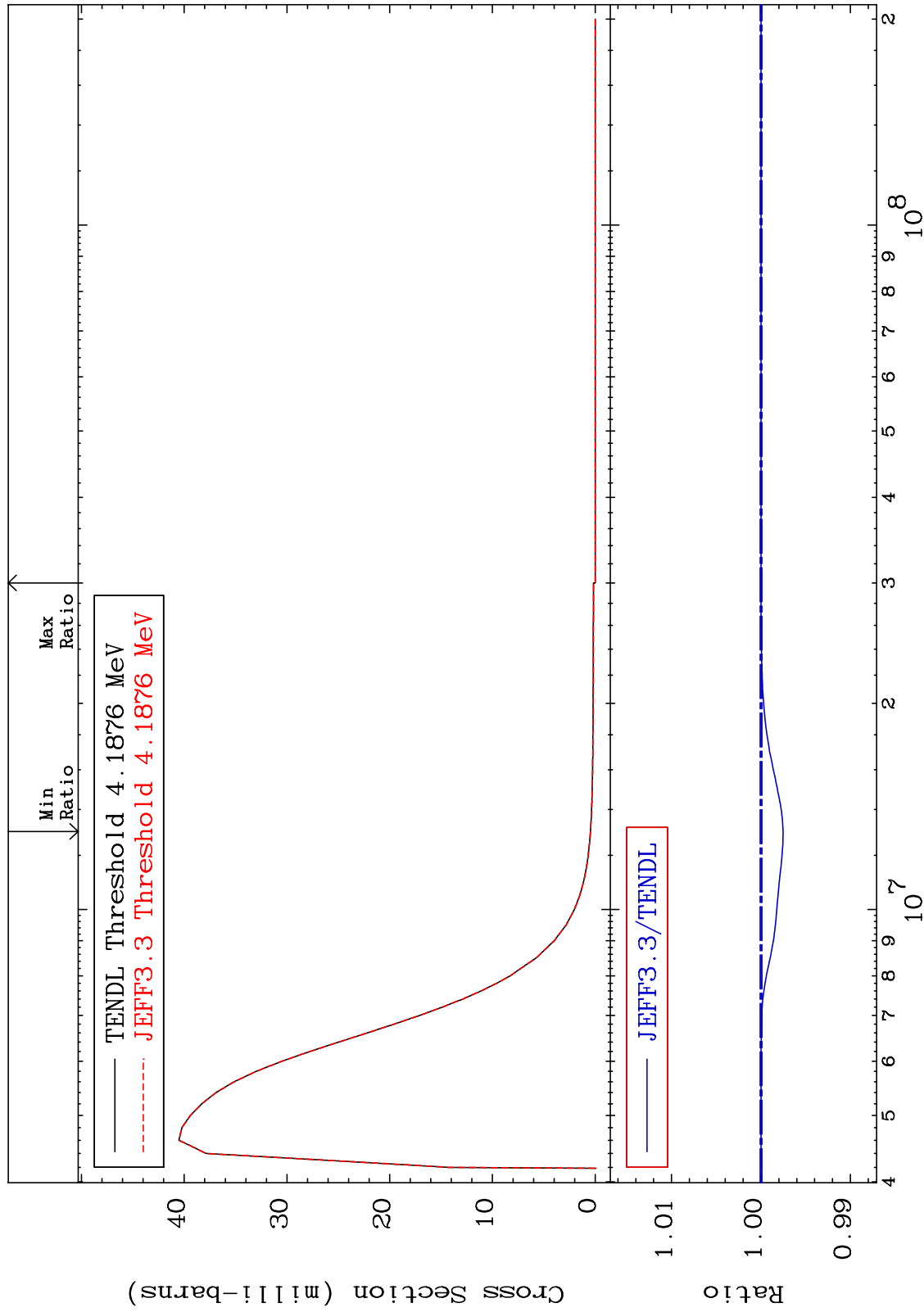
Incident Energy (eV)

20-Ca-44

MAT 2037

MT= 71 (n,n') Level  
Cross Section

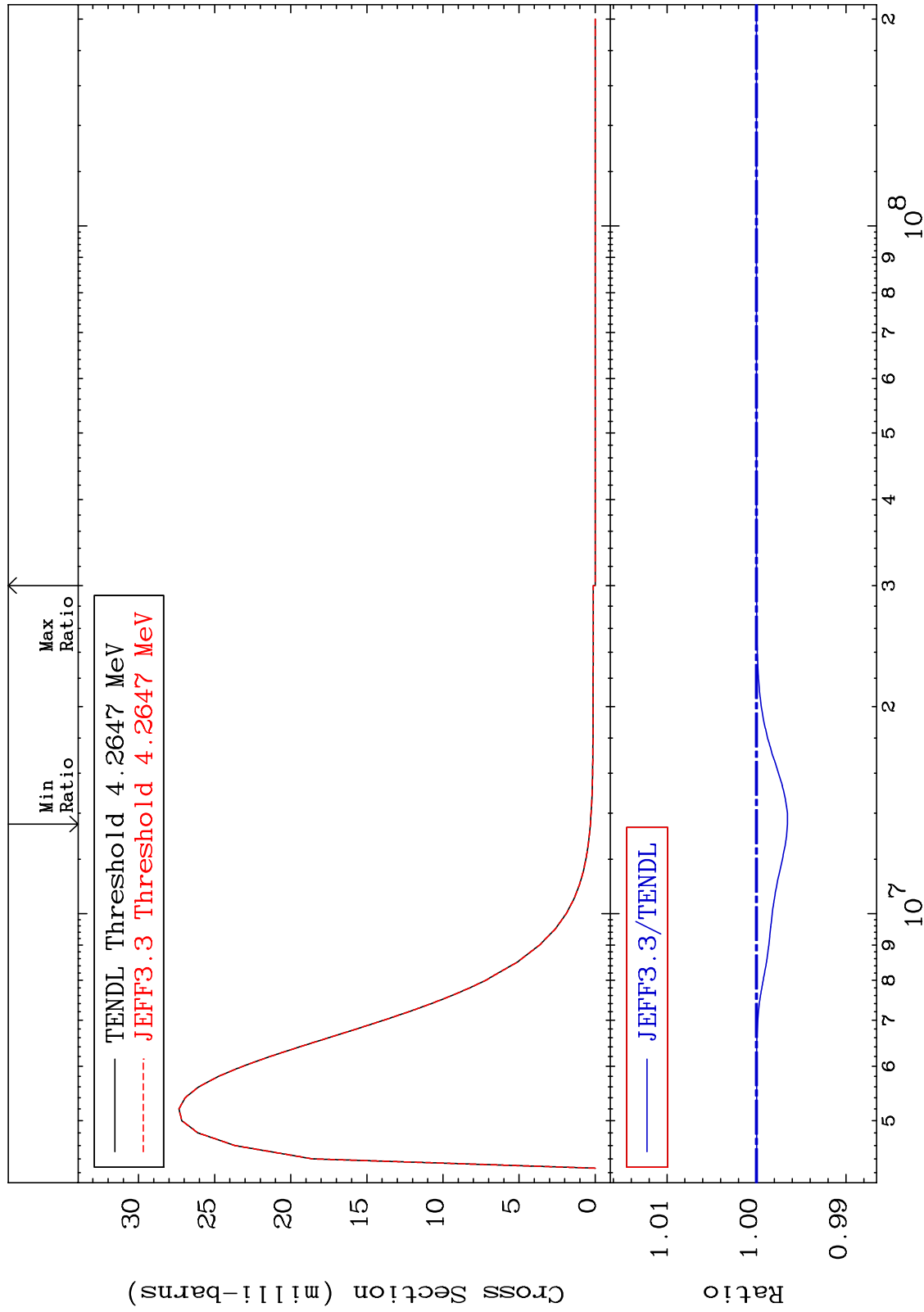
20-Ca-44  
-0.247 To 0.000 %



MAT 2037

MT= 72 (n,n') Level  
Cross Section

20-Ca-44  
-0.347 To 0.000 %

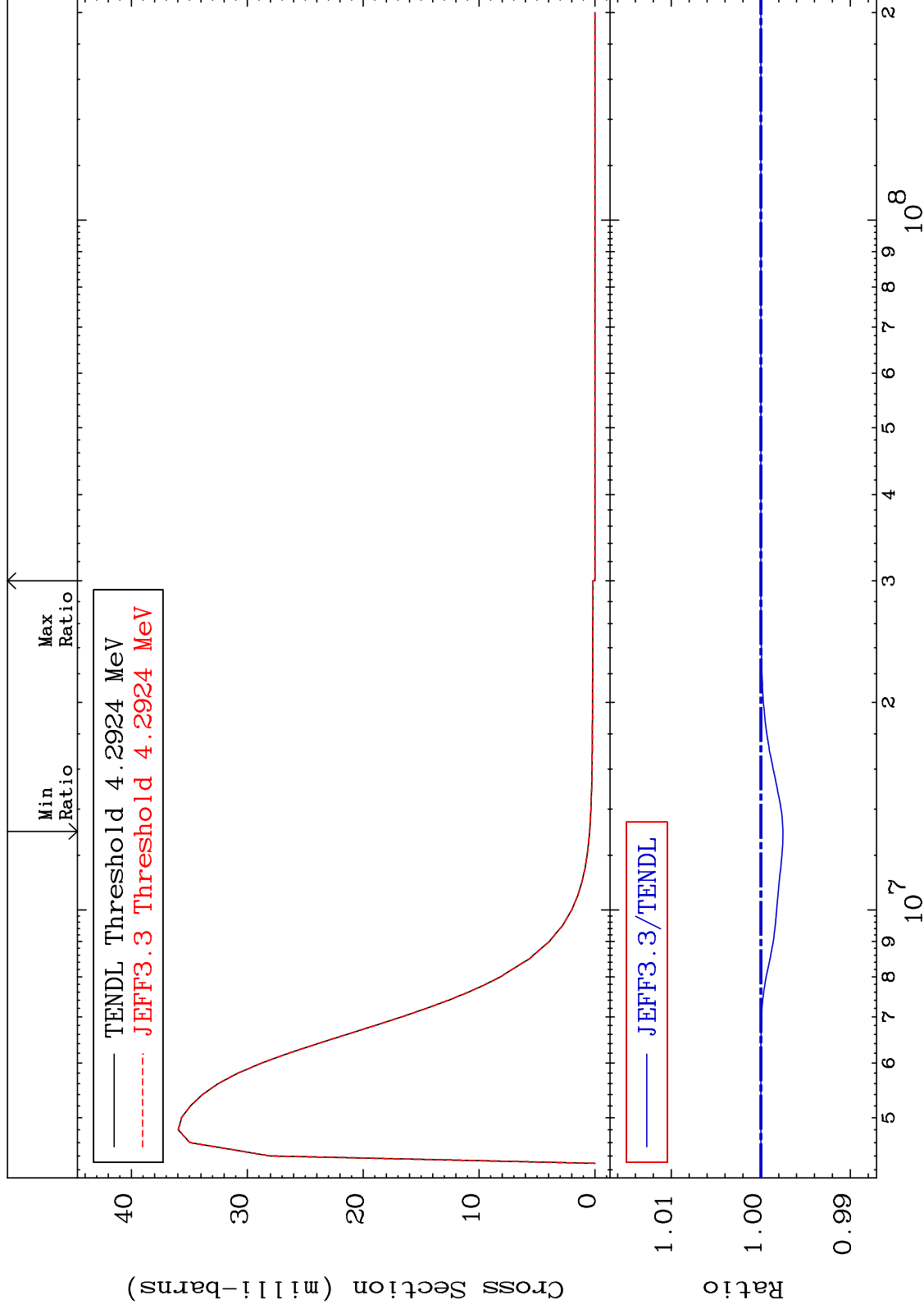




MAT 2037

MT= 73 (n,n') Level  
Cross Section

20-Ca-44  
-0.247 To 0.000 %

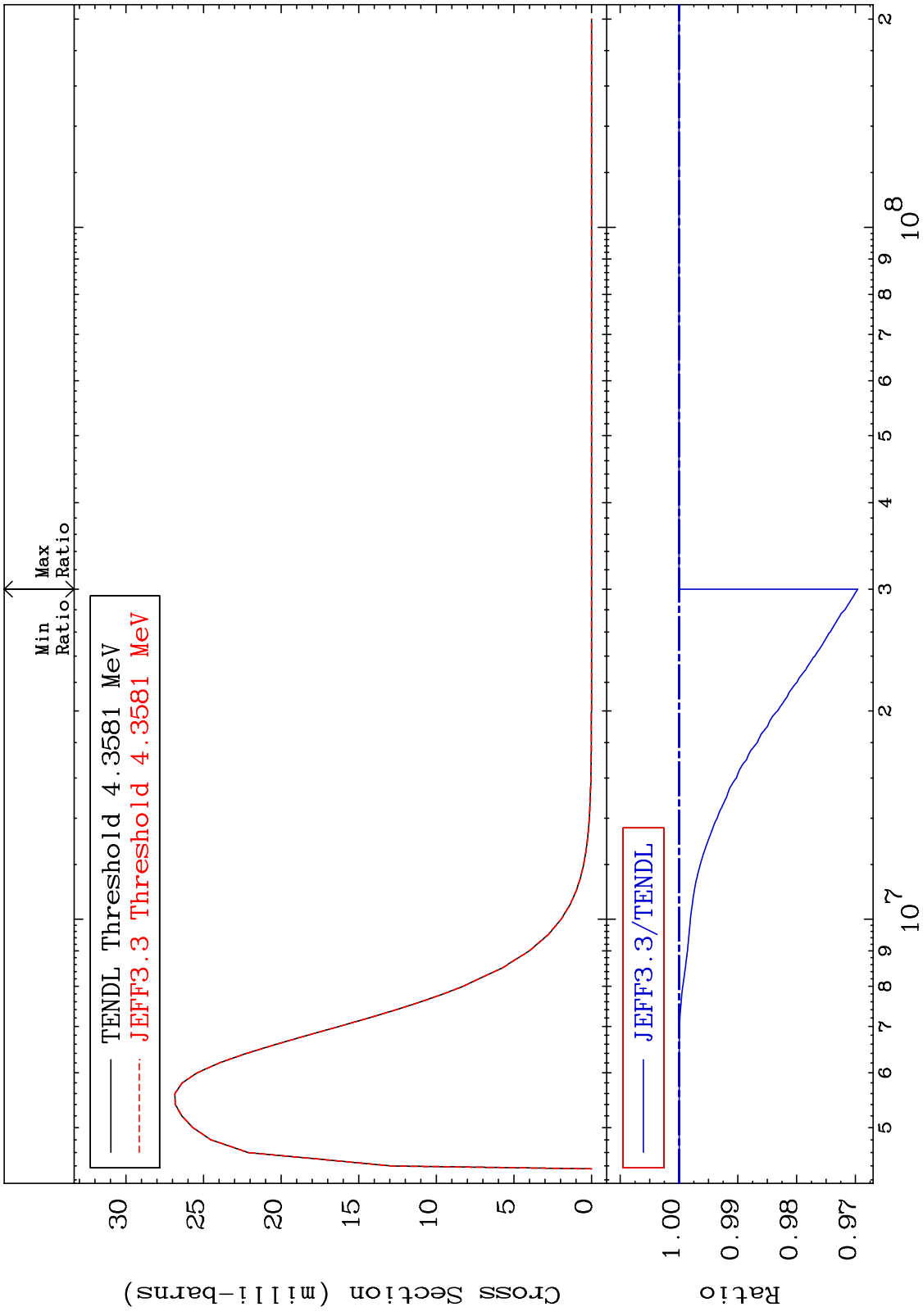


40

Incident Energy (eV)

20-Ca-44

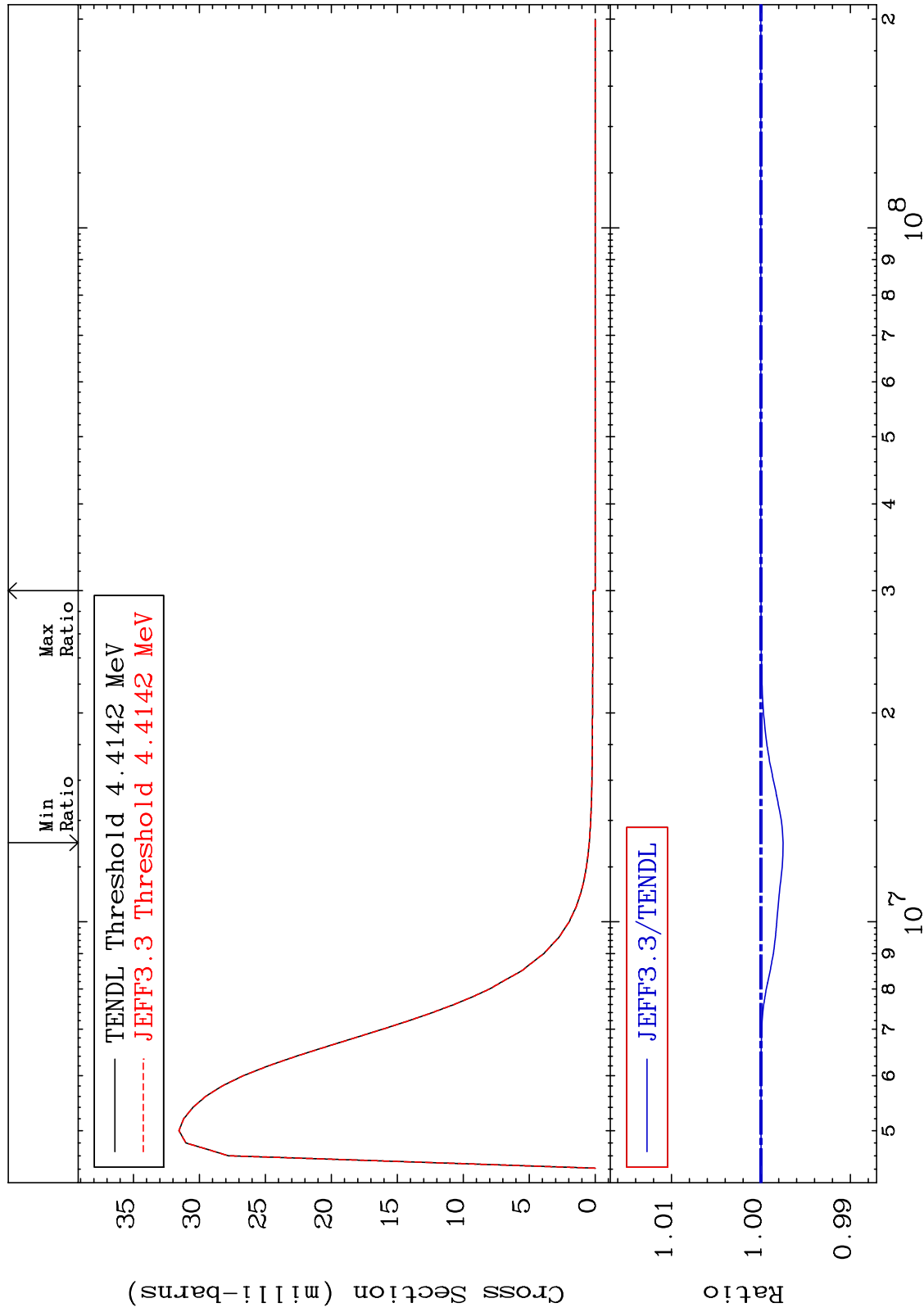
MAT 2037 MT= 74 (n,n') Level Cross Section -3.041 To 0.000 % 20-Ca-44



MAT 2037

MT= 75 (n,n') Level  
Cross Section

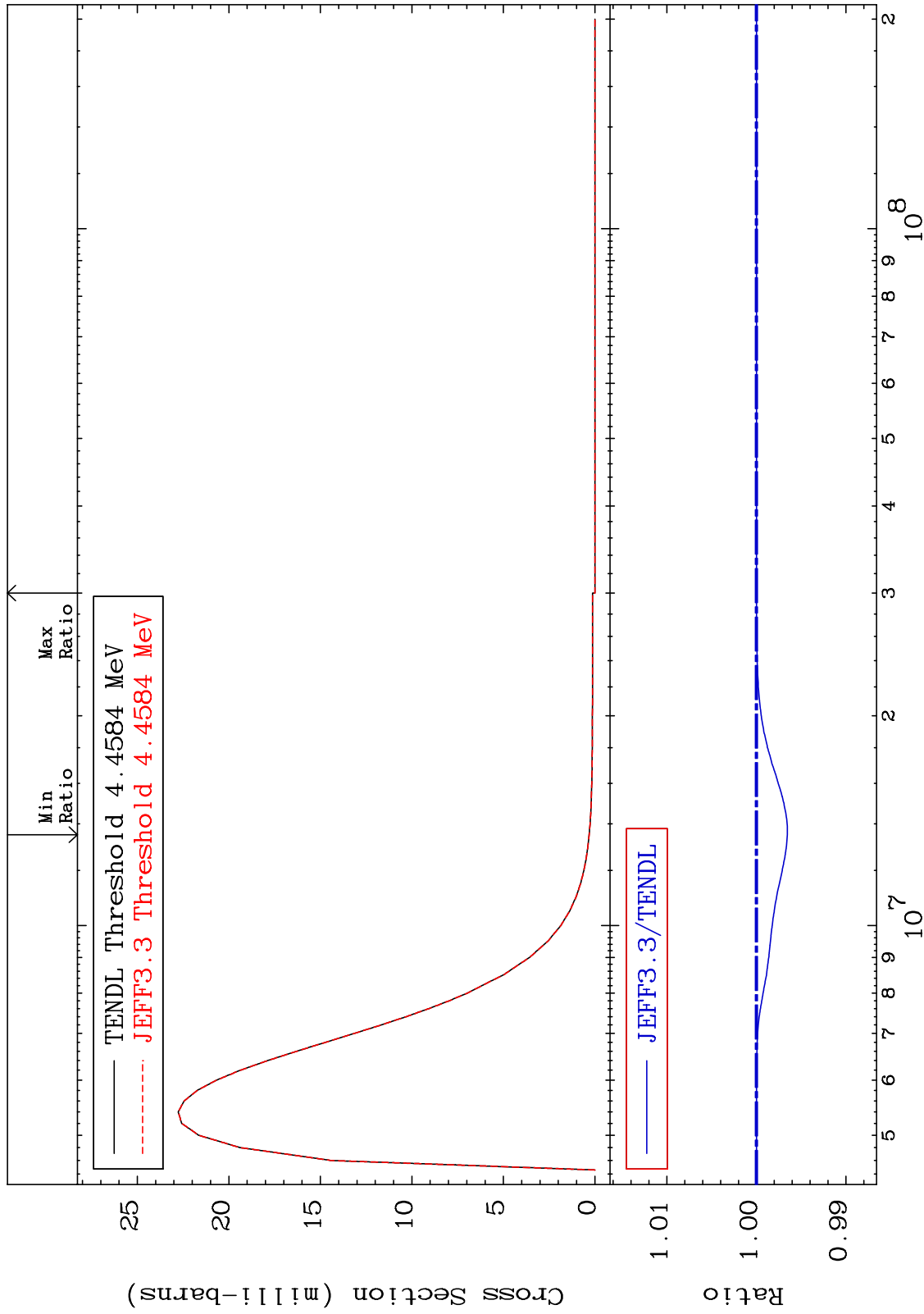
20-Ca-44  
-0.248 To 0.000 %



MAT 2037

MT= 76 (n,n') Level  
Cross Section

20-Ca-44  
-0.345 To 0.000 %

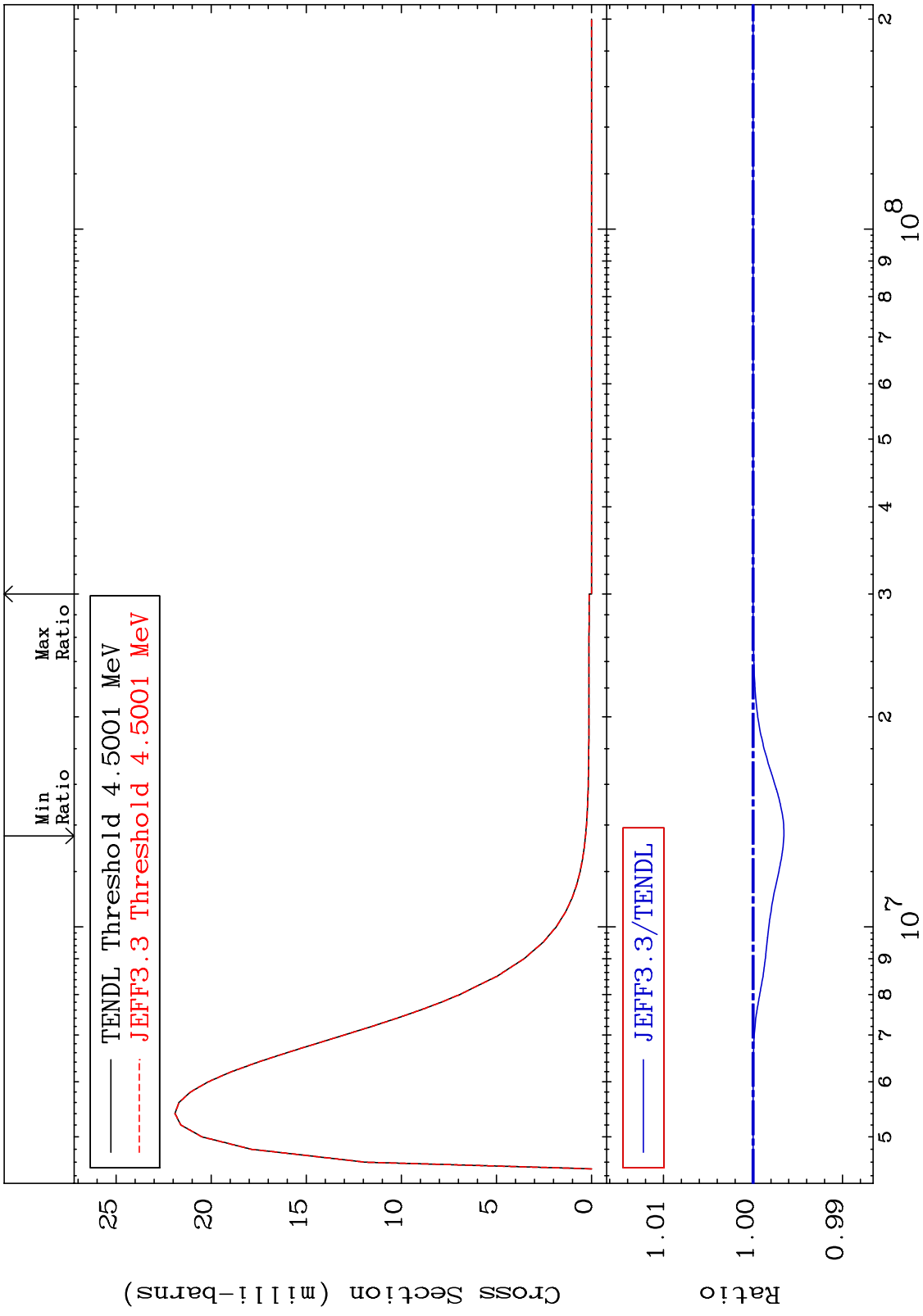


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Incident Energy (eV)

20-Ca-44

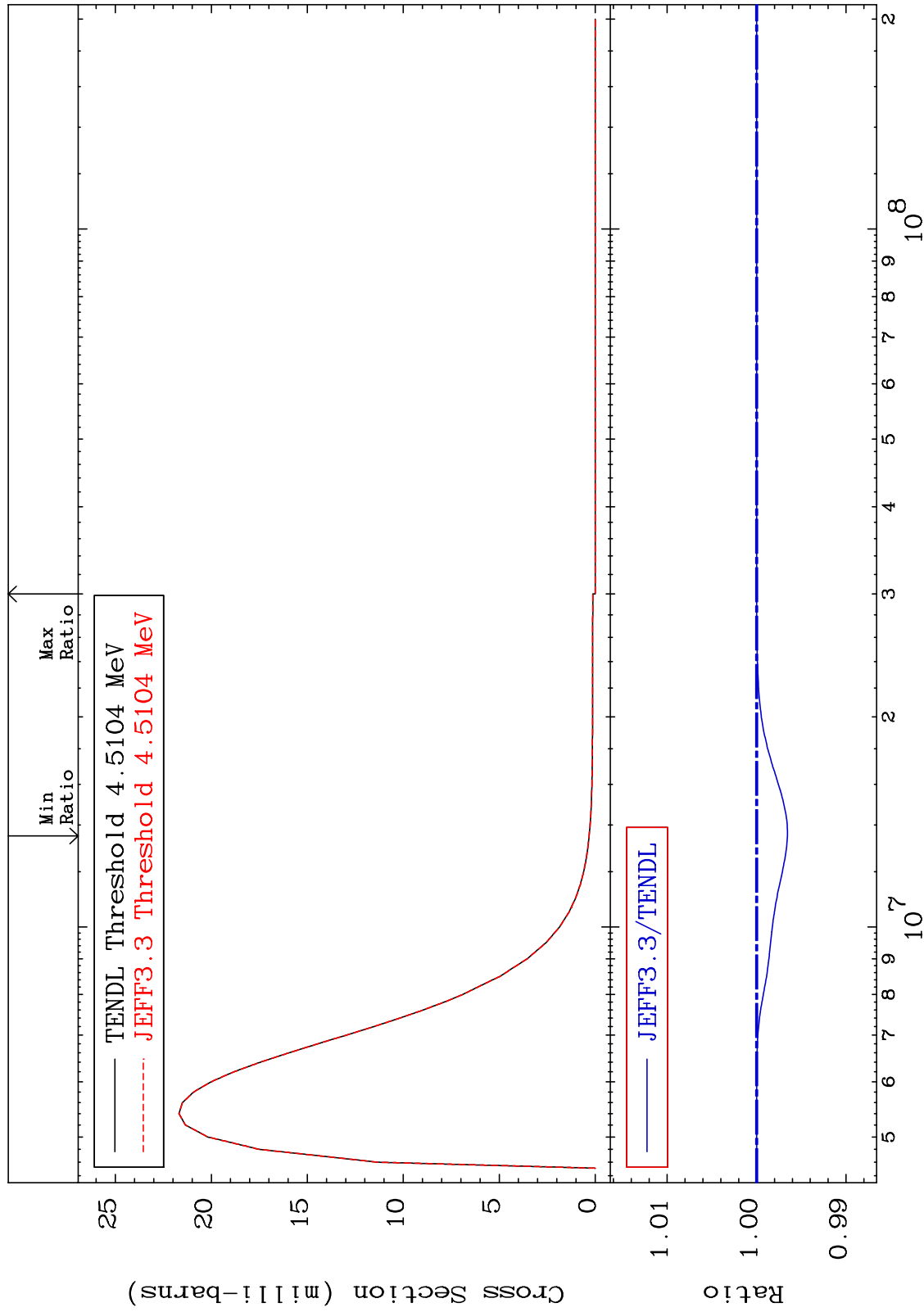
MAT 2037 MT= 77 (n,n') Level Cross Section -0.345 To 0.000 % 20-Ca-44



MAT 2037

MT= 78 (n,n') Level  
Cross Section

20-Ca-44  
-0.345 To 0.000 %

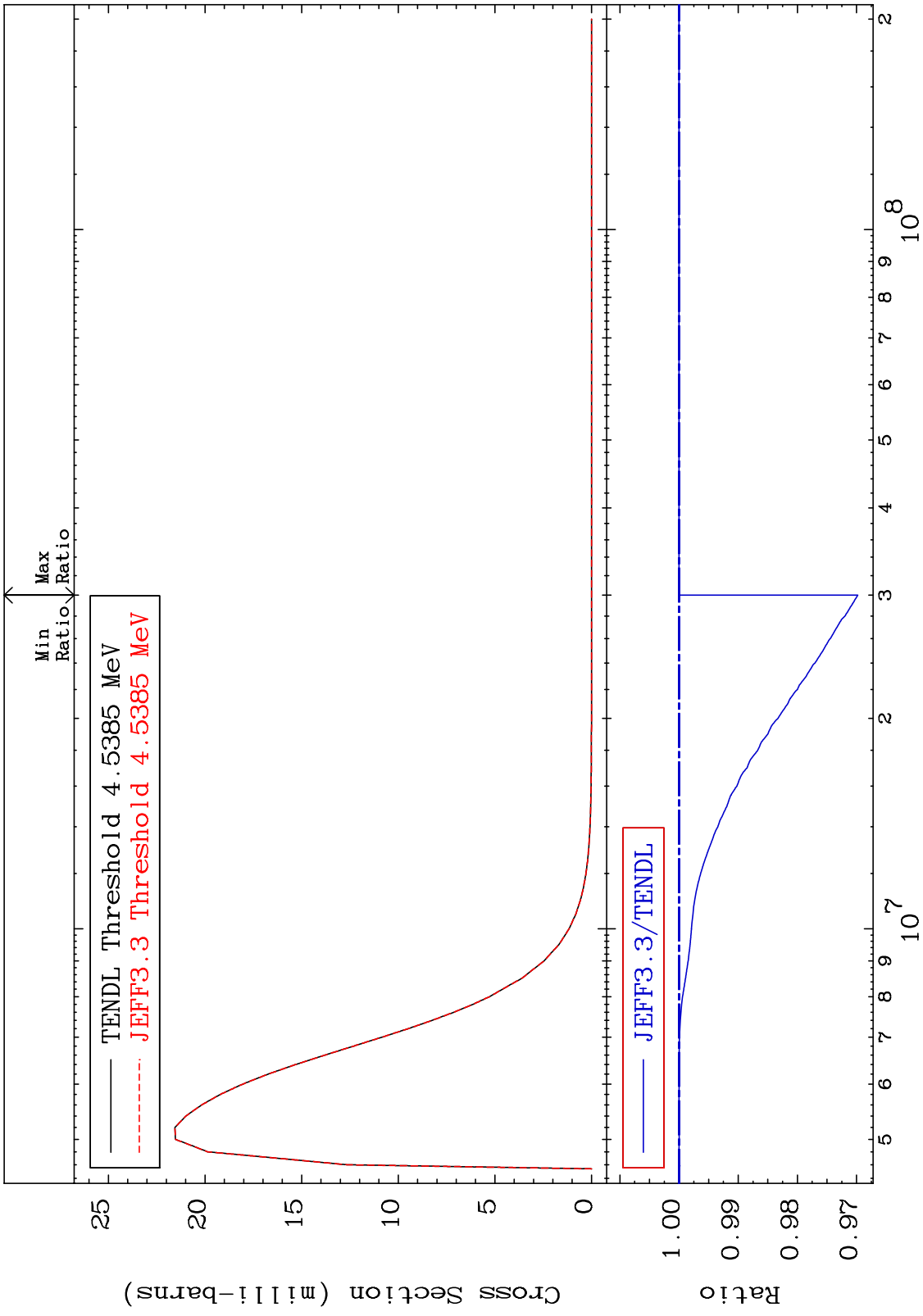


45

Incident Energy (eV)

20-Ca-44

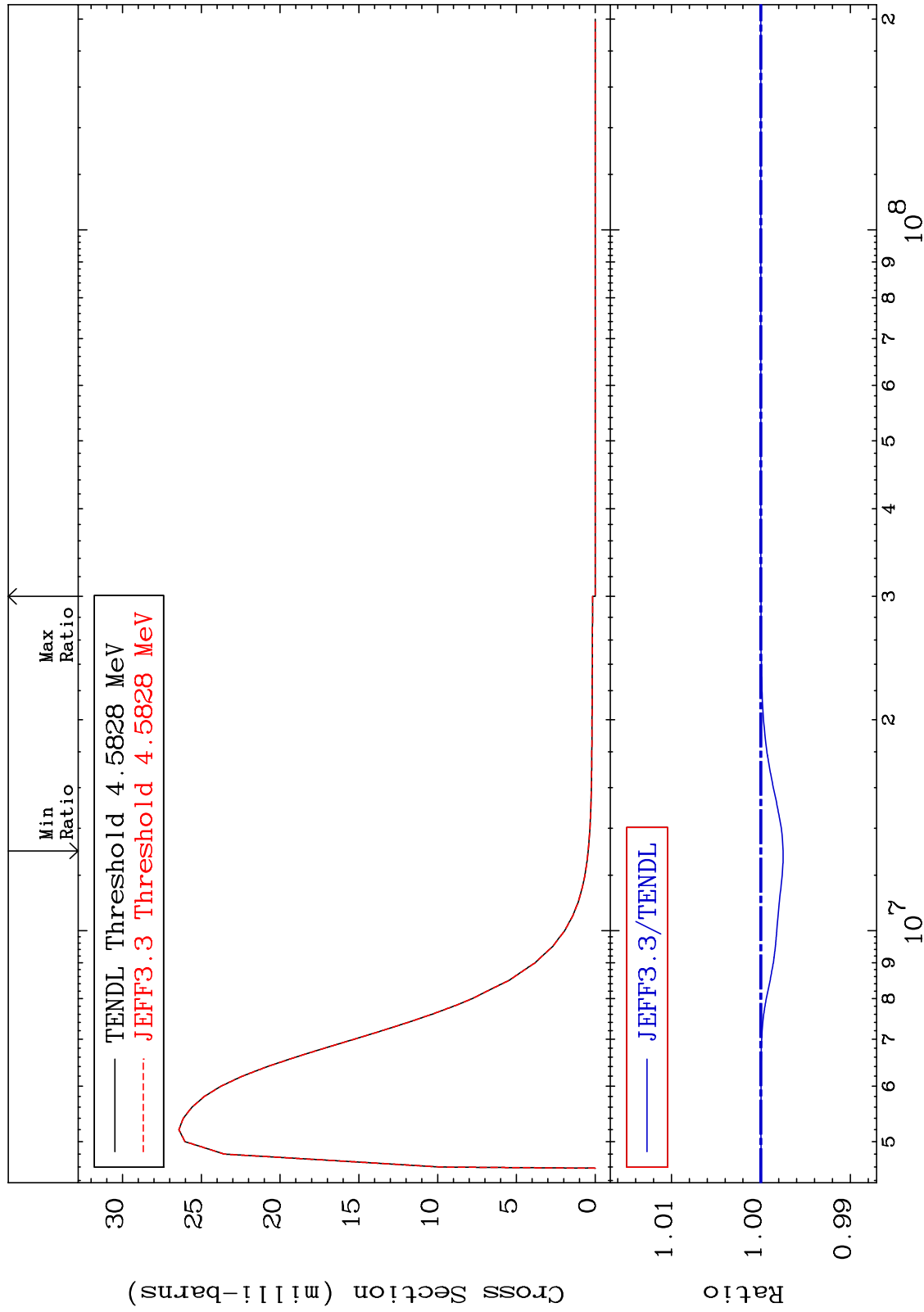
MAT 2037 MT= 79 (n, n') Level Cross Section -3.022 To 0.000 % 20-Ca-44



MAT 2037

MT= 80 (n,n') Level  
Cross Section

20-Ca-44  
-0.249 To 0.000 %



47

Incident Energy (eV)

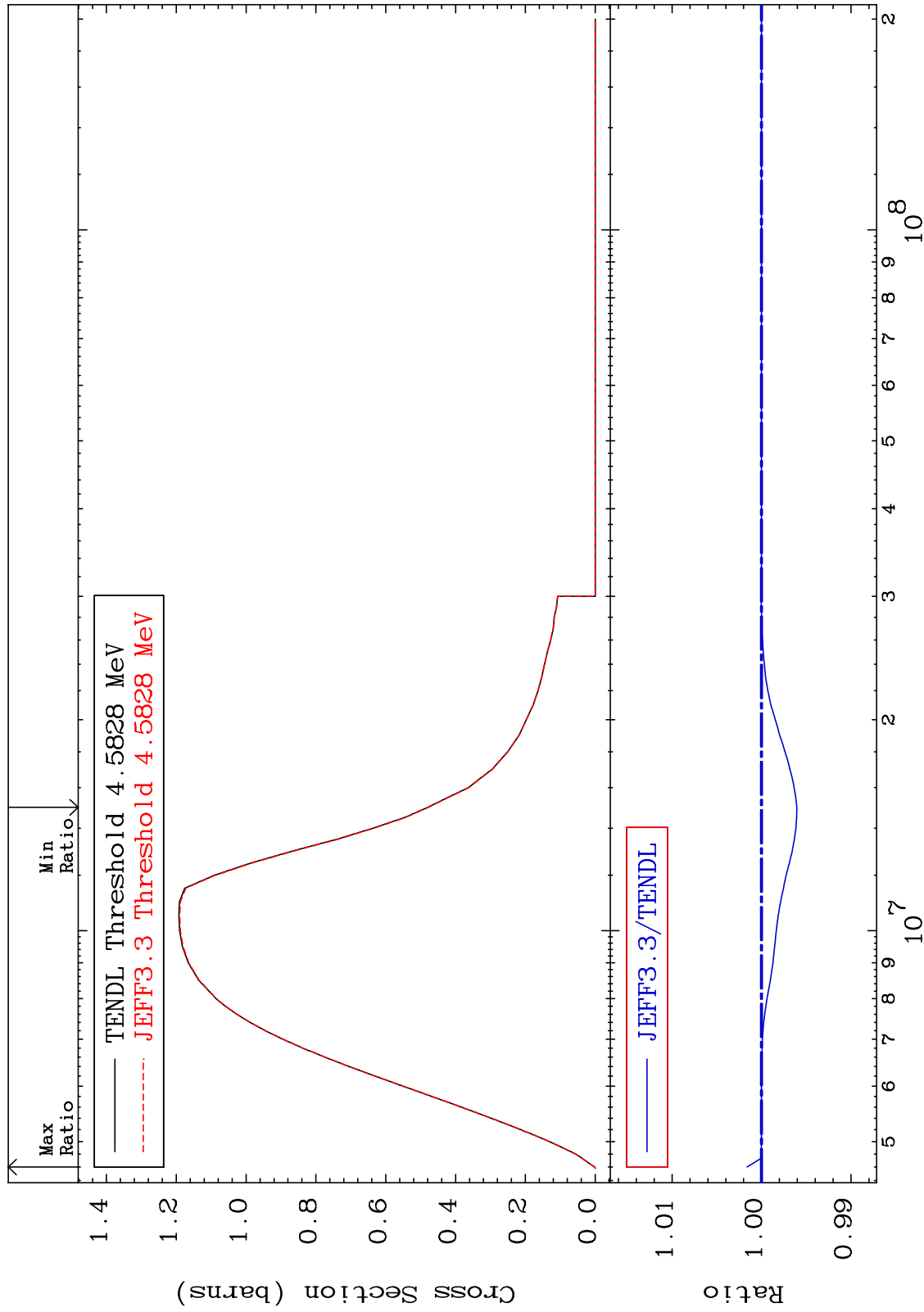
20-Ca-44



MAT 2037

(n,n') Continuum  
Cross Section

20-Ca-44  
-0.395 To 0.161 %



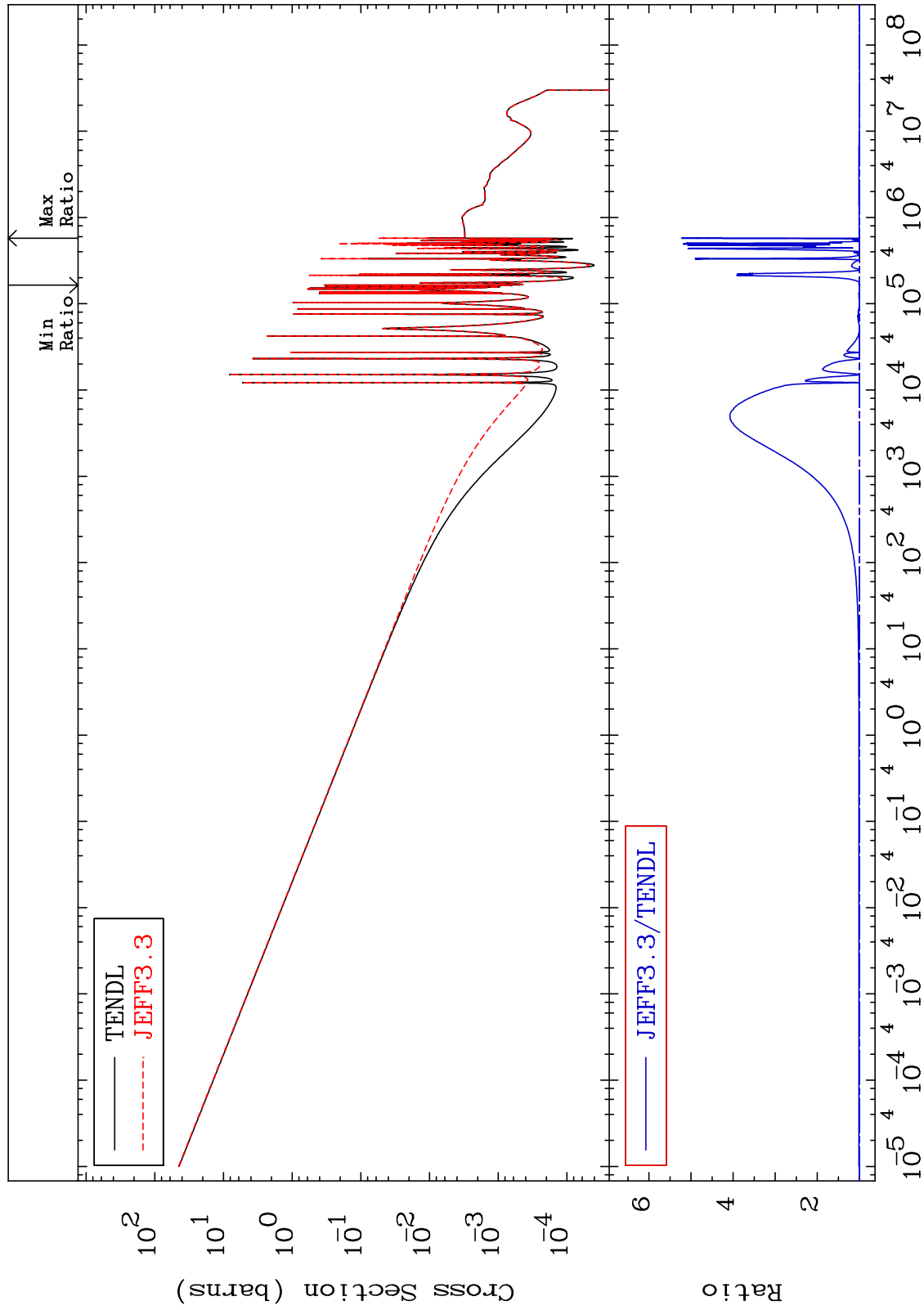
MAT 2037

(n,  $\gamma$ )

20-Ca-44

Cross Section

-0.872 To 422.8 %

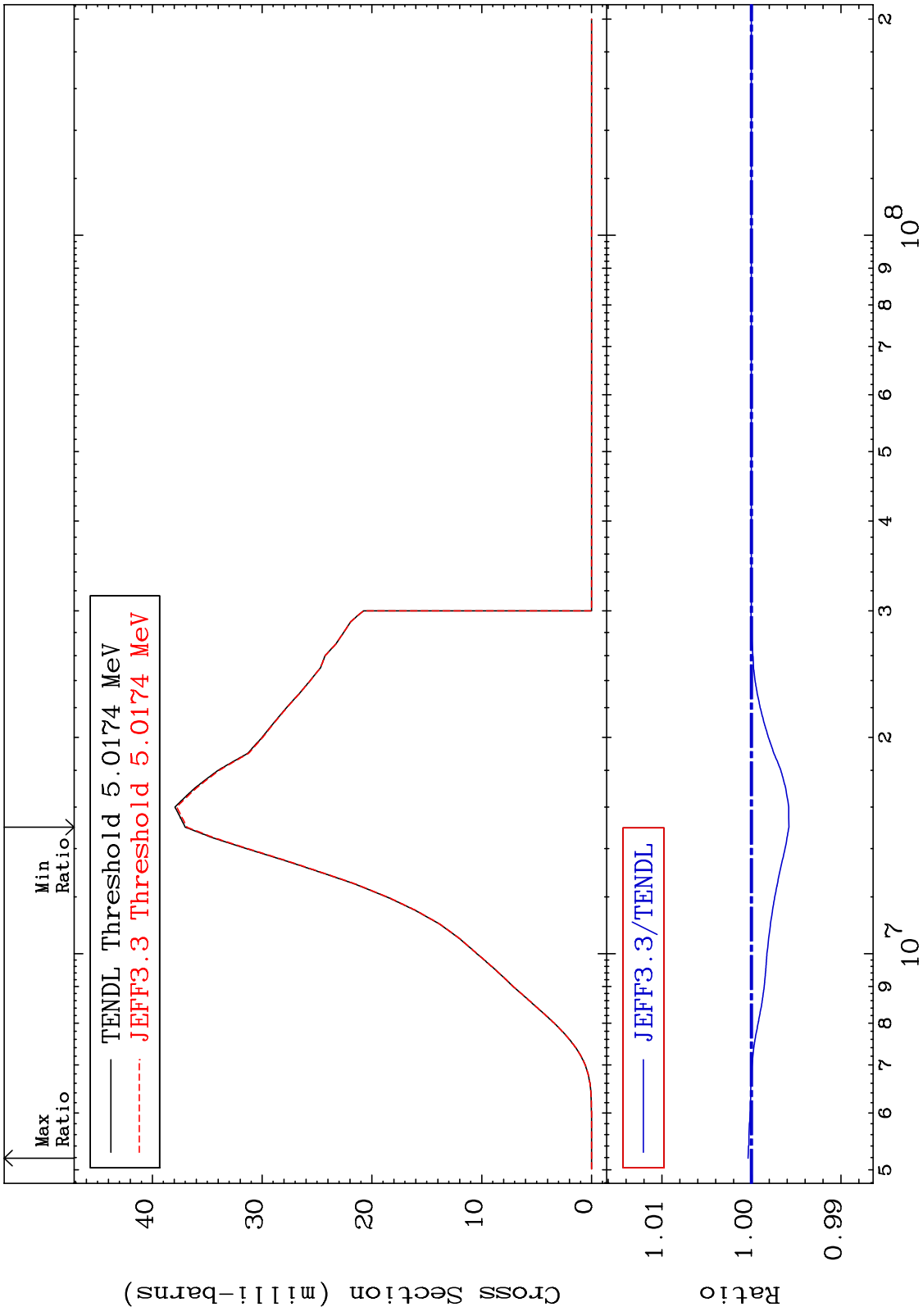


49

Incident Energy (eV)

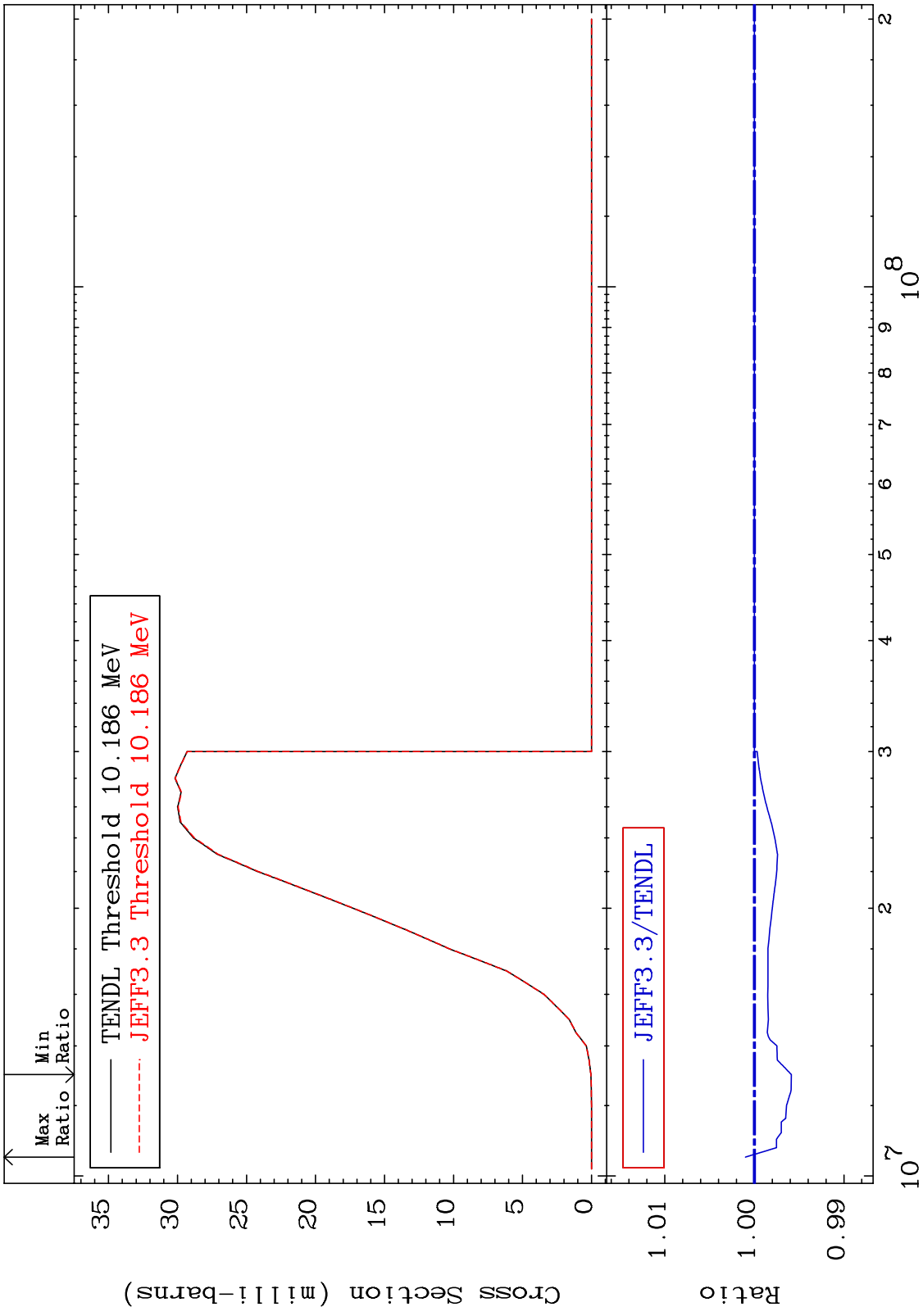
20-Ca-44

MAT 2037 (n,p) 20-Ca-44  
 Cross Section -0.417 To 0.038 %



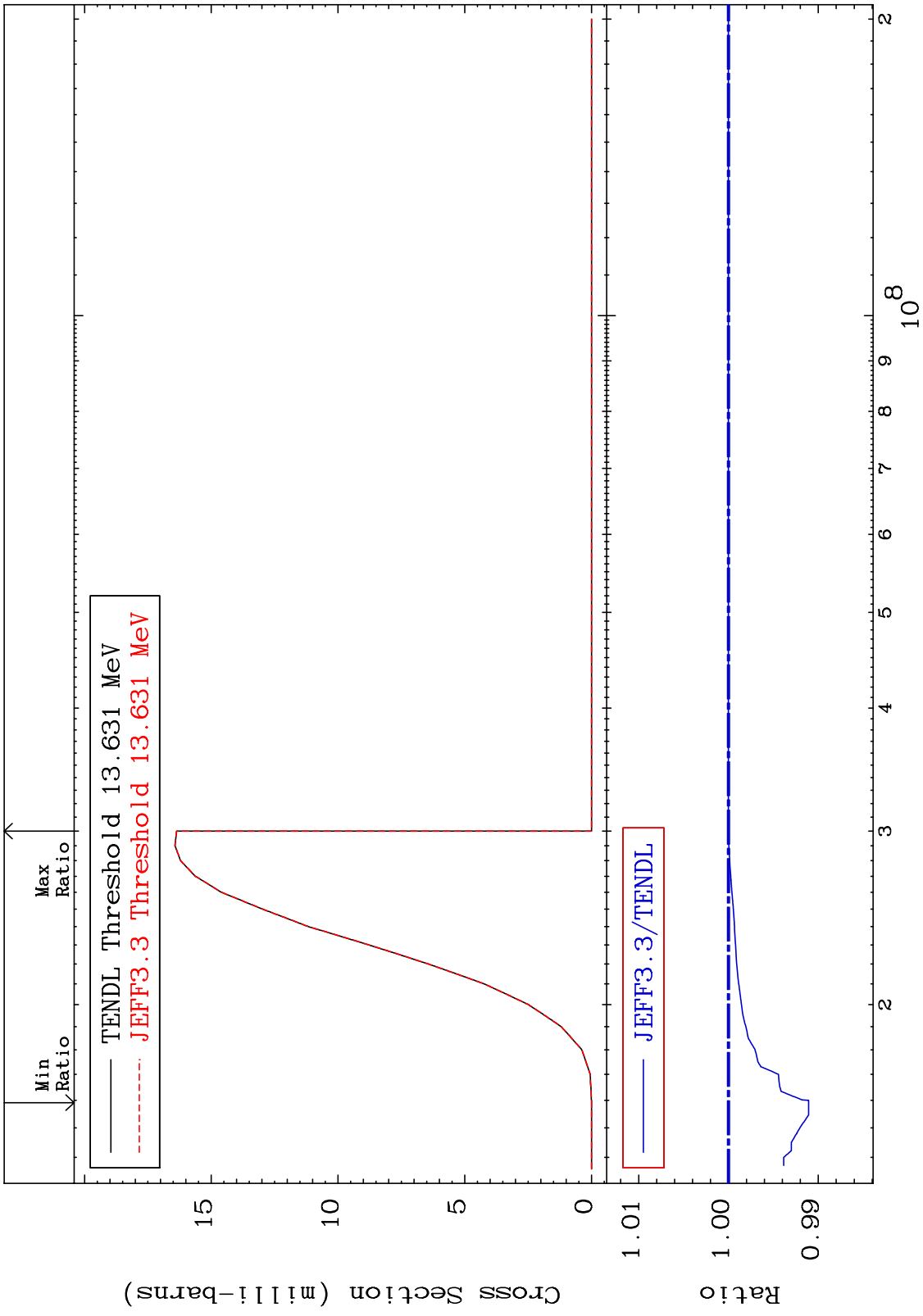
50 20-Ca-44

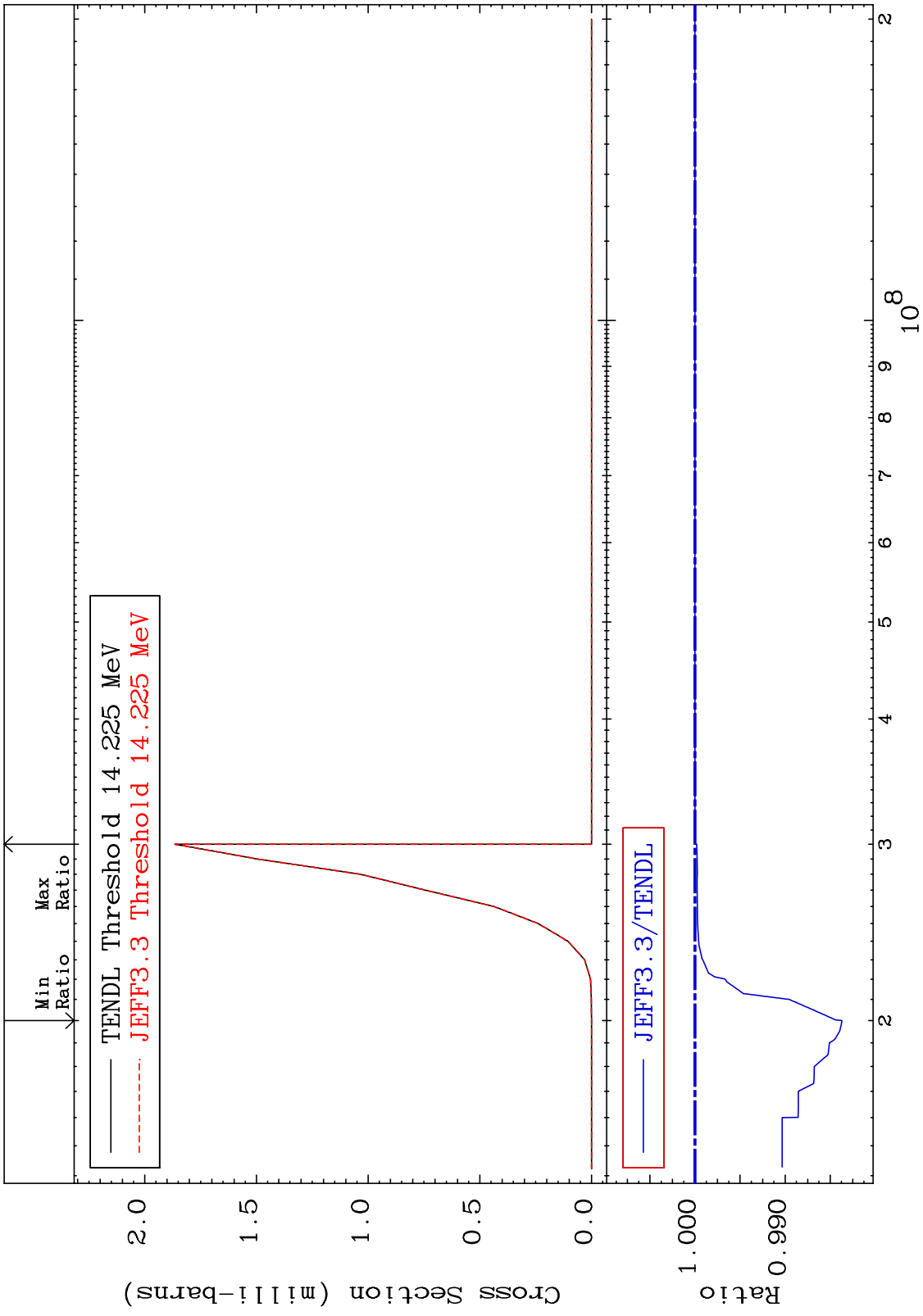
MAT 2037 (n,d) 20-Ca-44  
Cross Section -0.414 To 0.099 %

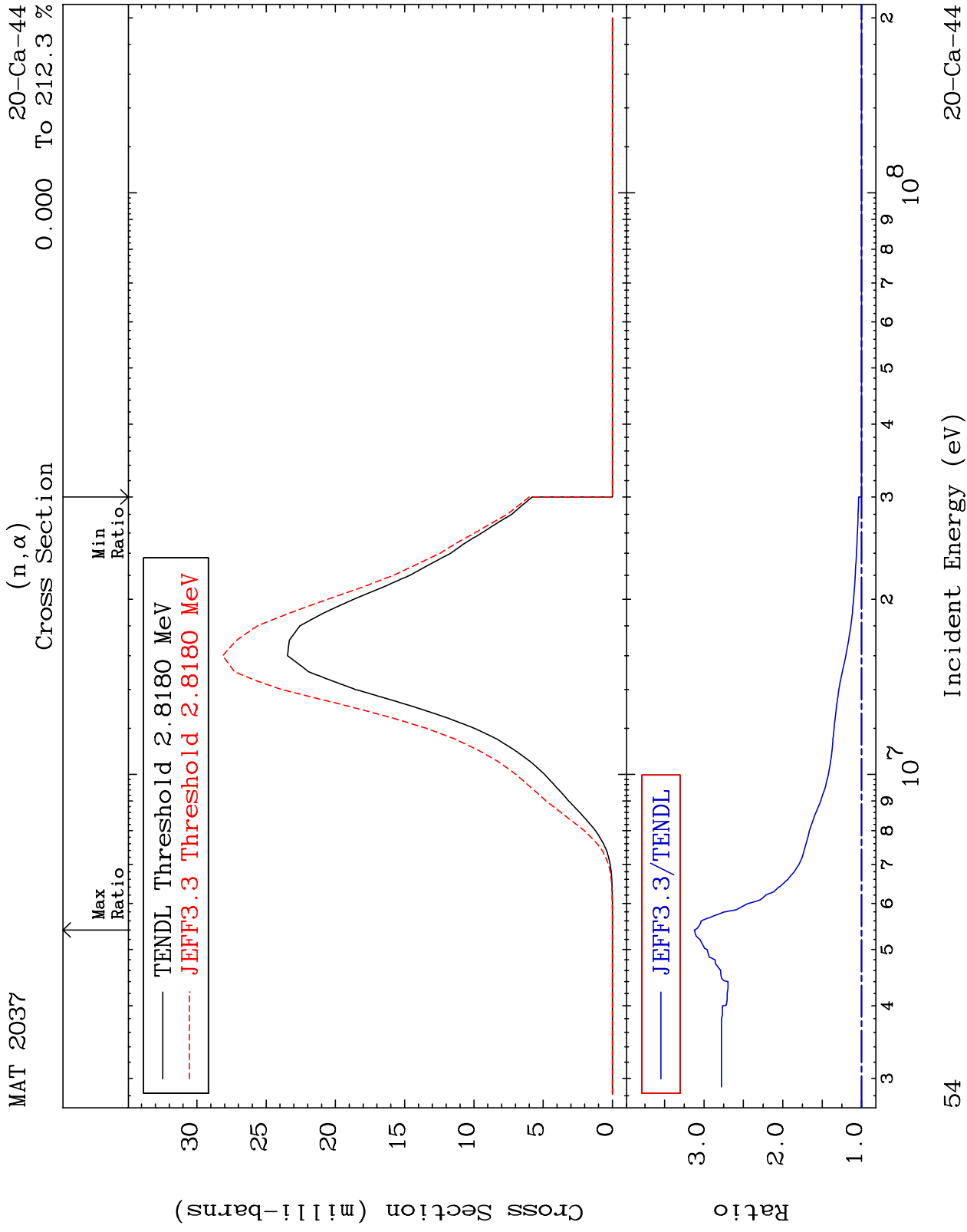


51 20-Ca-44

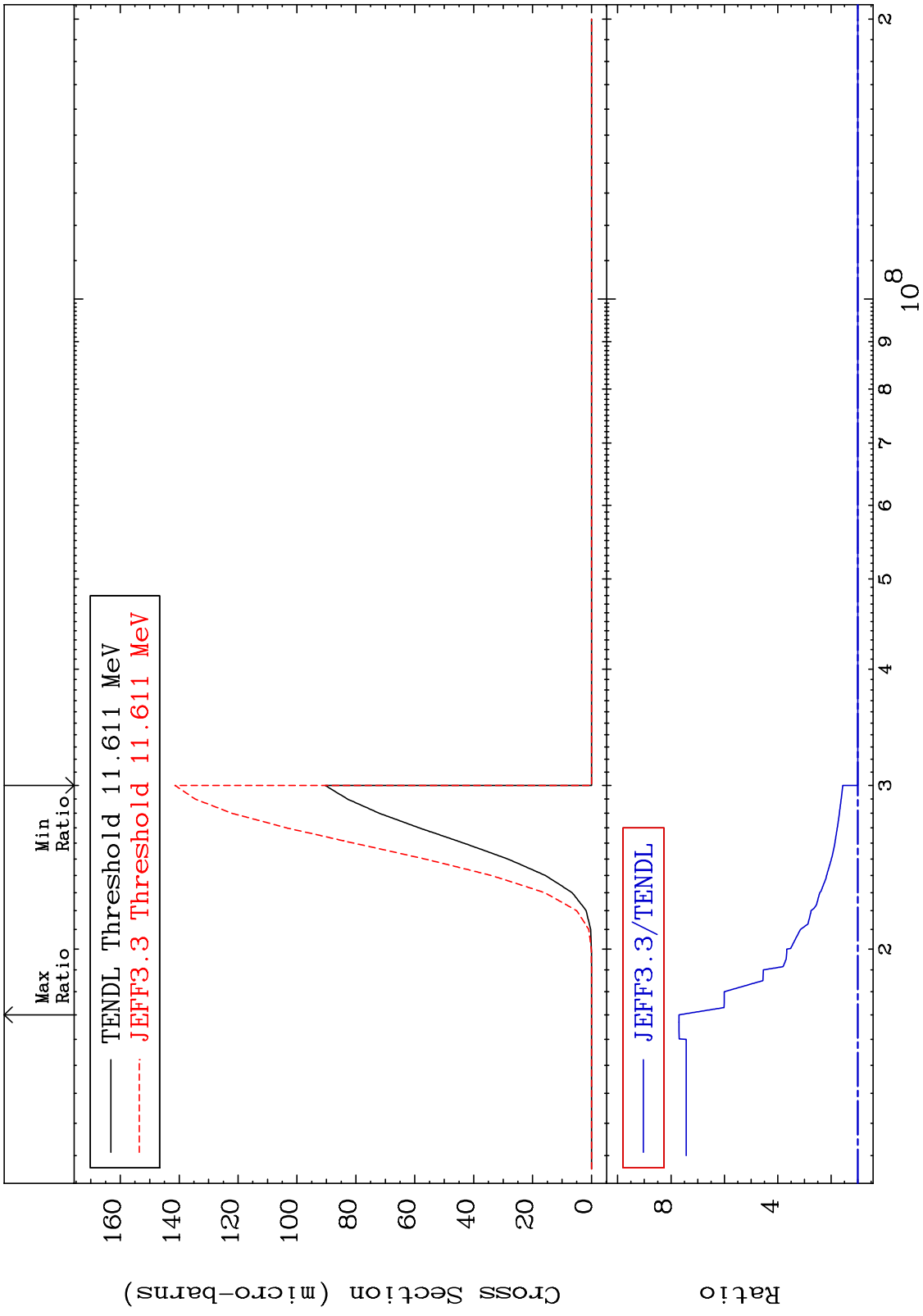
MAT 2037 (n,t) 20-Ca-44  
 Cross Section -0.893 To 0.002 %



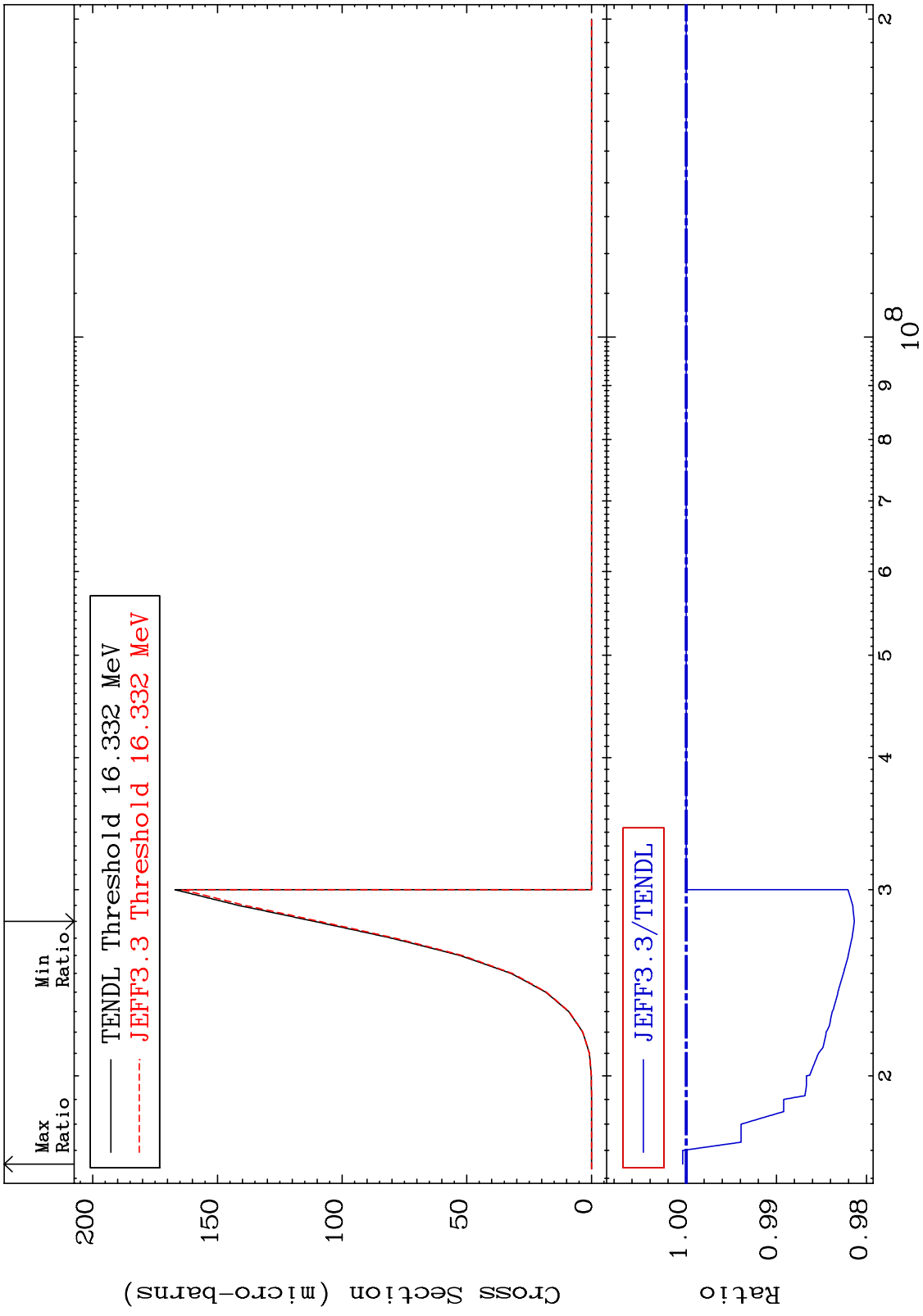




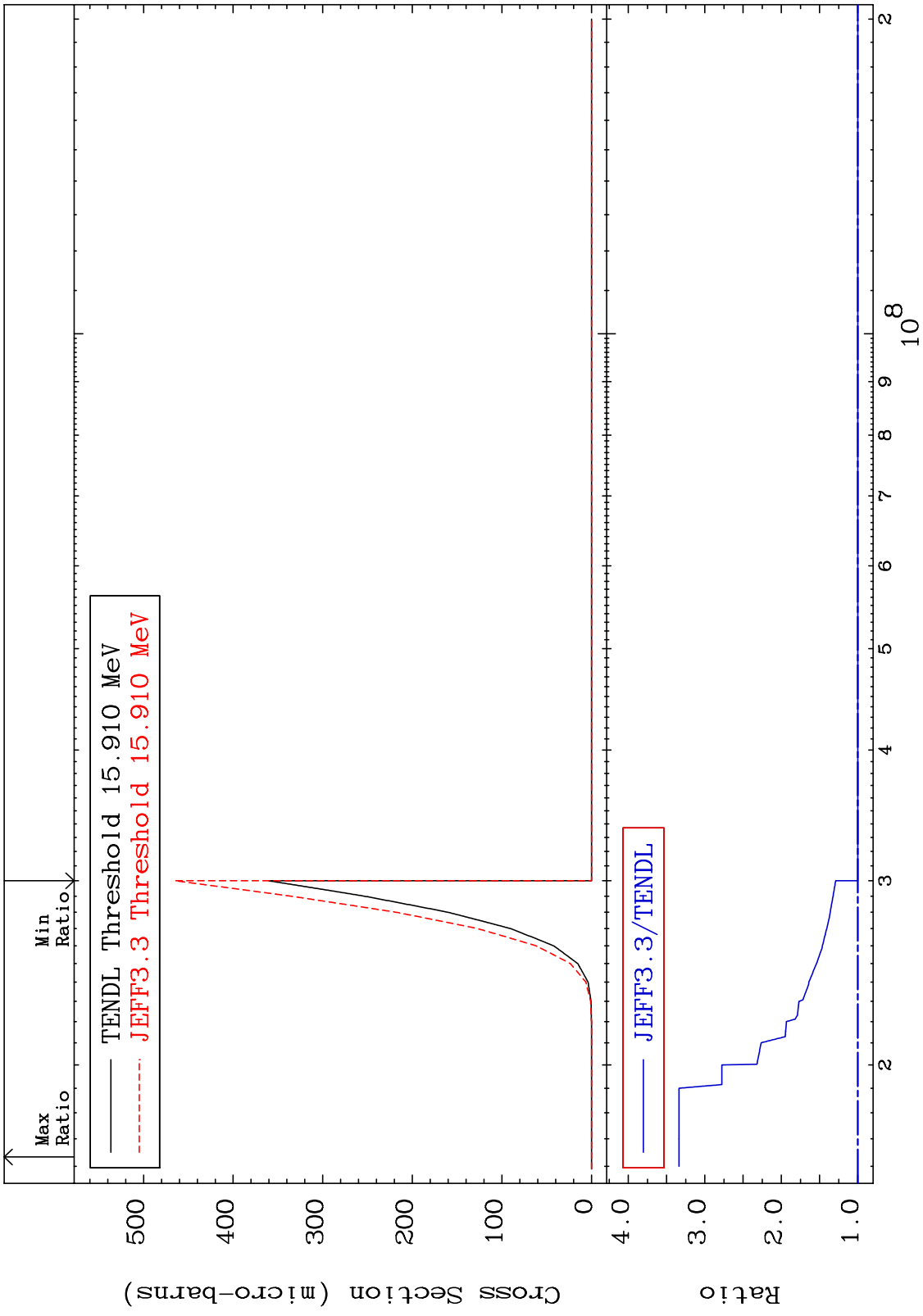
MAT 2037 (n,2α) Cross Section 20-Ca-44 To 669.9 %



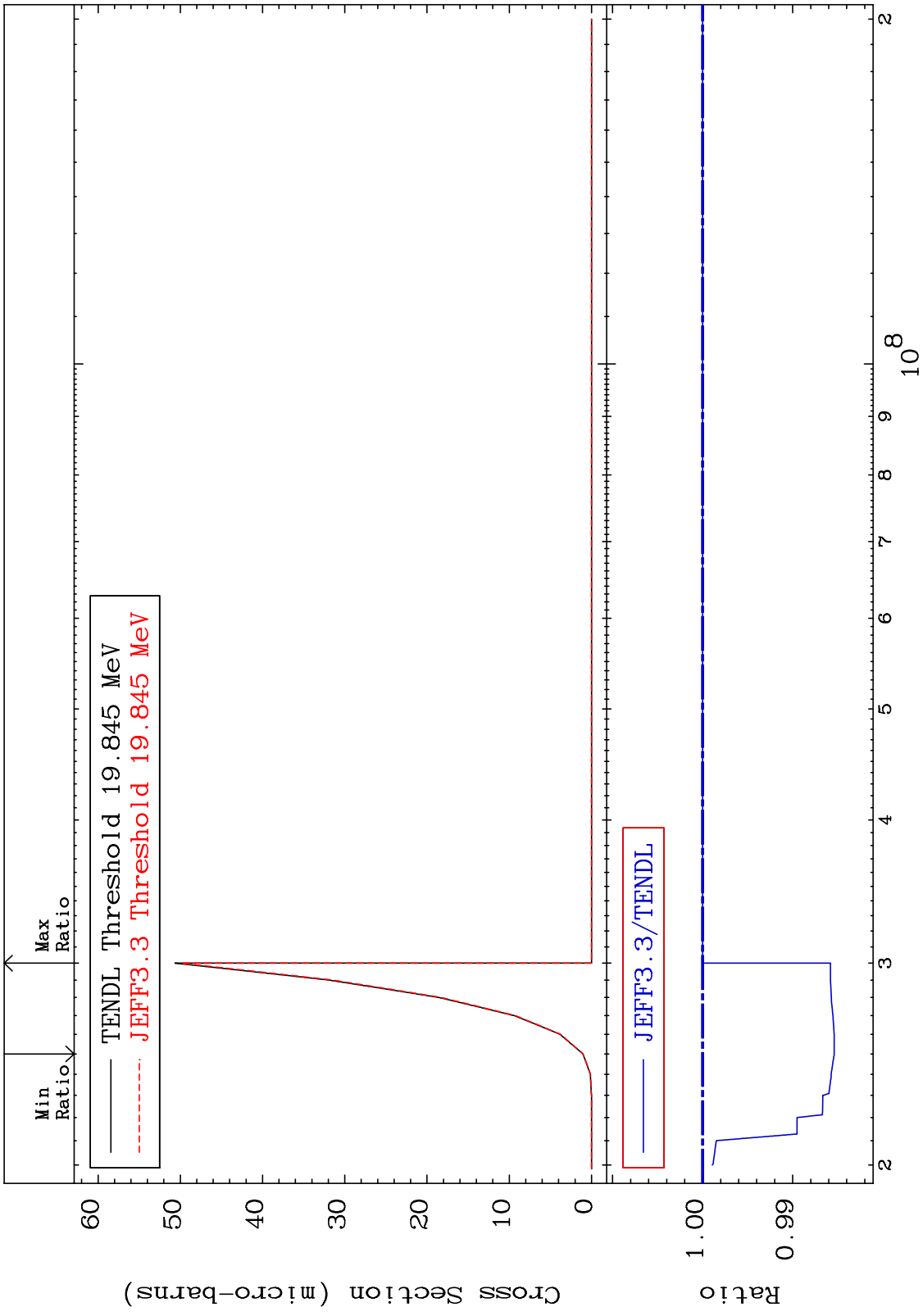




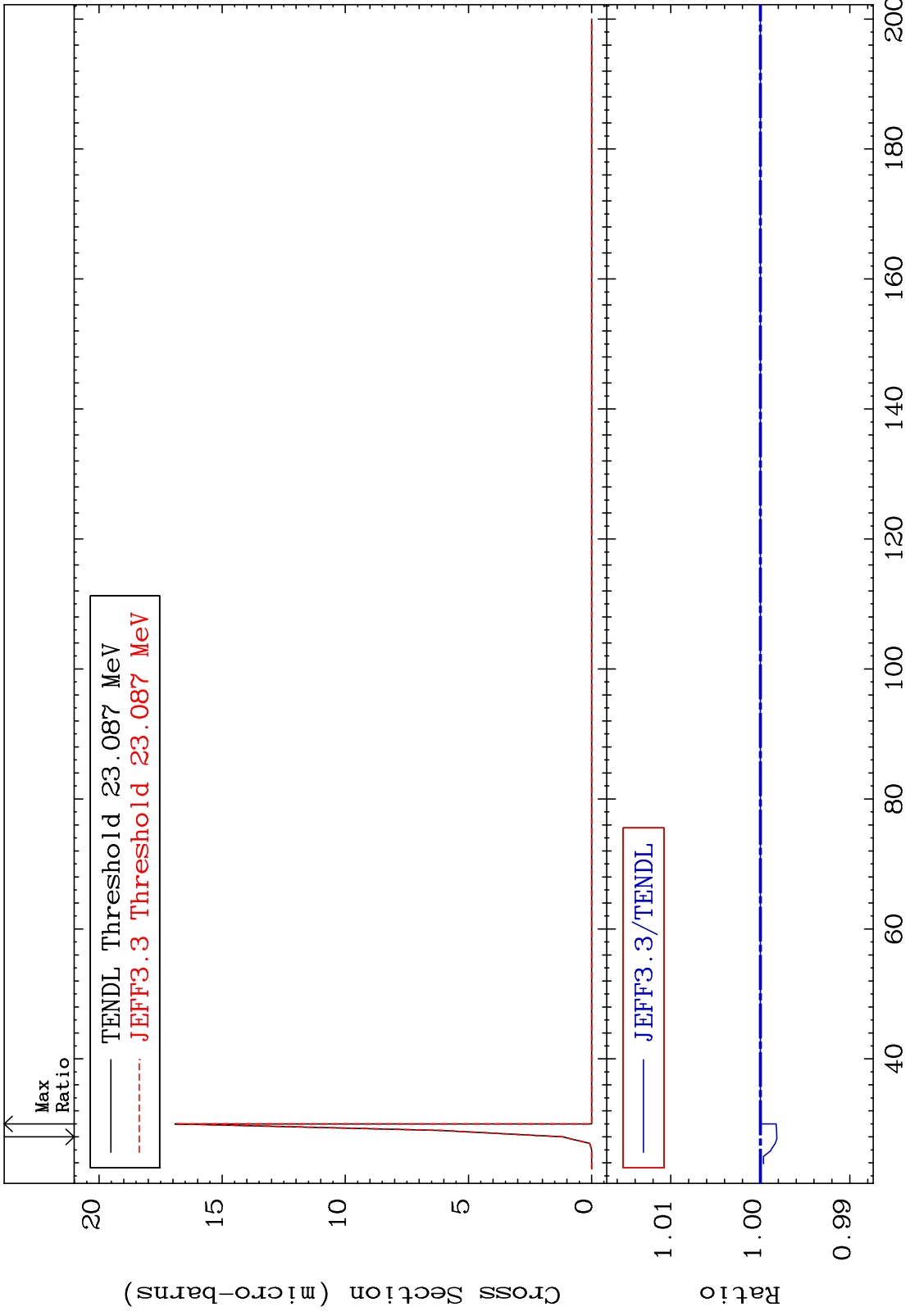
MAT 2037  $(n,p) \alpha$  20-Ca-44  
 Cross Section 0.000 To 233.7 %



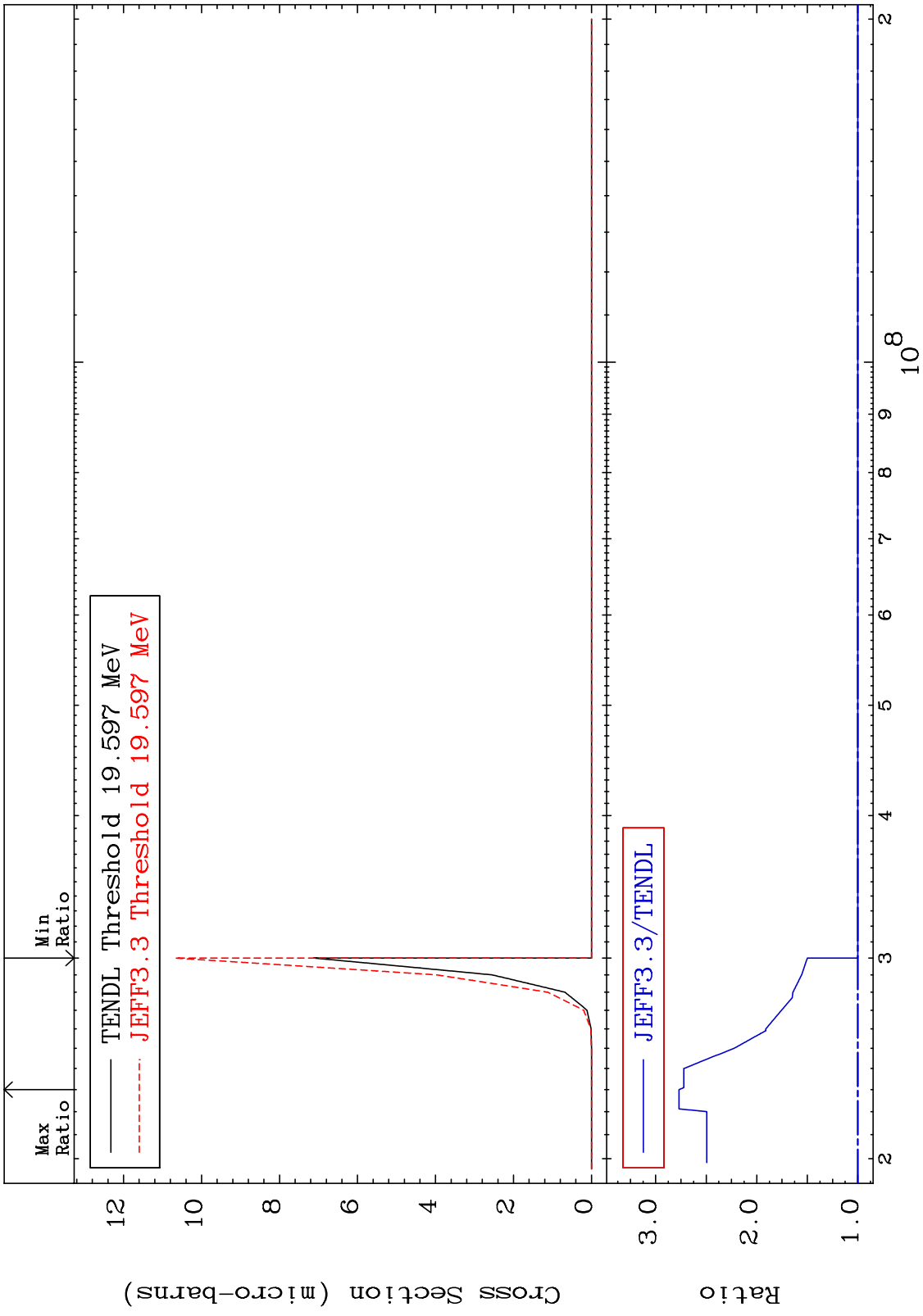
MAT 2037 (n,p) d 20-Ca-44  
 Cross Section -1.461 To 0.000 %



MAT 2037 (n,p) t 20-Ca-44  
 Cross Section -0.183 To 0.000 %



MAT 2037 (n,d)  $\alpha$  20-Ca-44  
 Cross Section 0.000 To 176.9 %

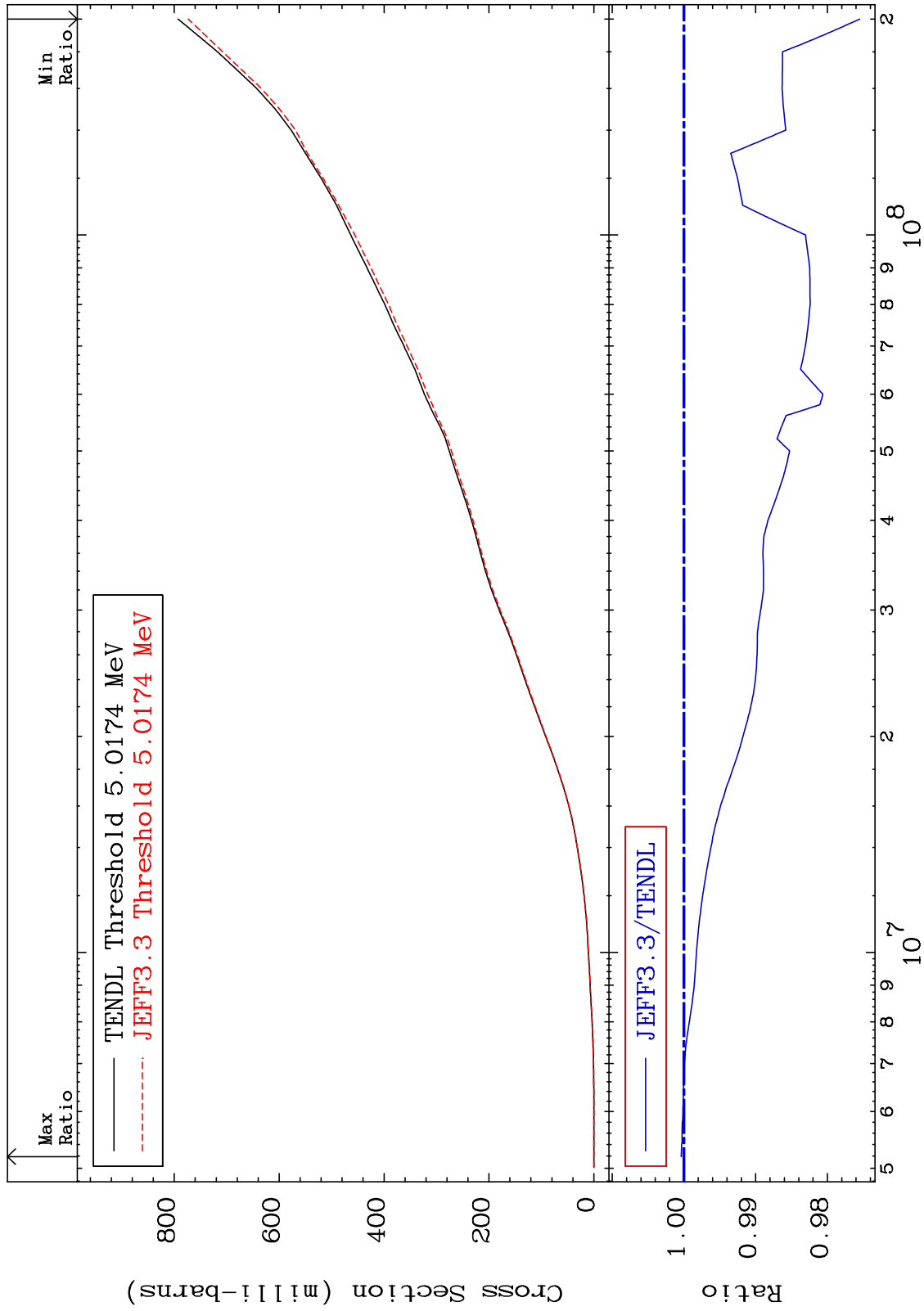


60 Incident Energy (eV) 20-Ca-44

MAT 2037

Hydrogen Production  
Cross Section

20-Ca-44  
-2.451 To 0.038 %

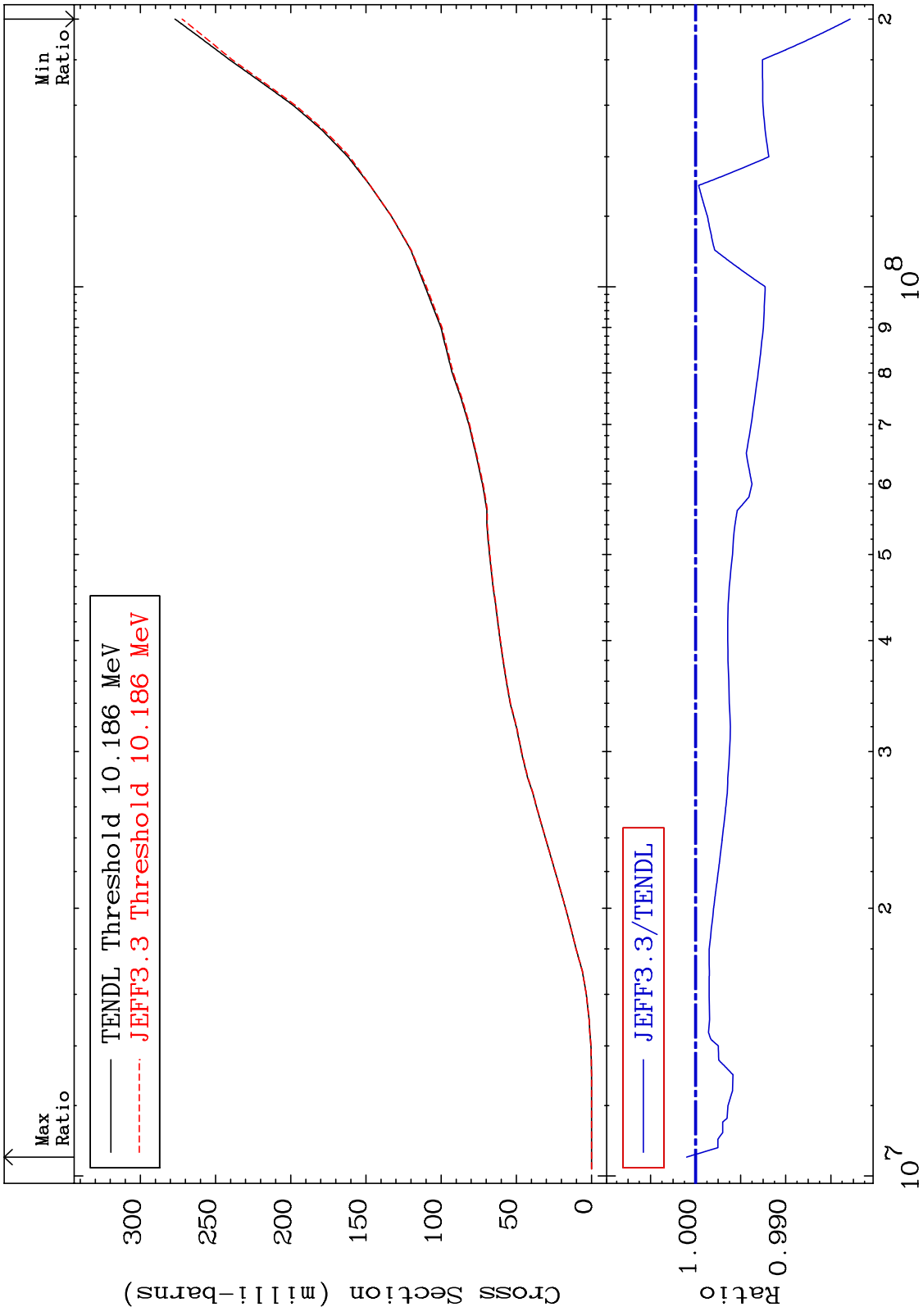


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Incident Energy (eV)

20-Ca-44

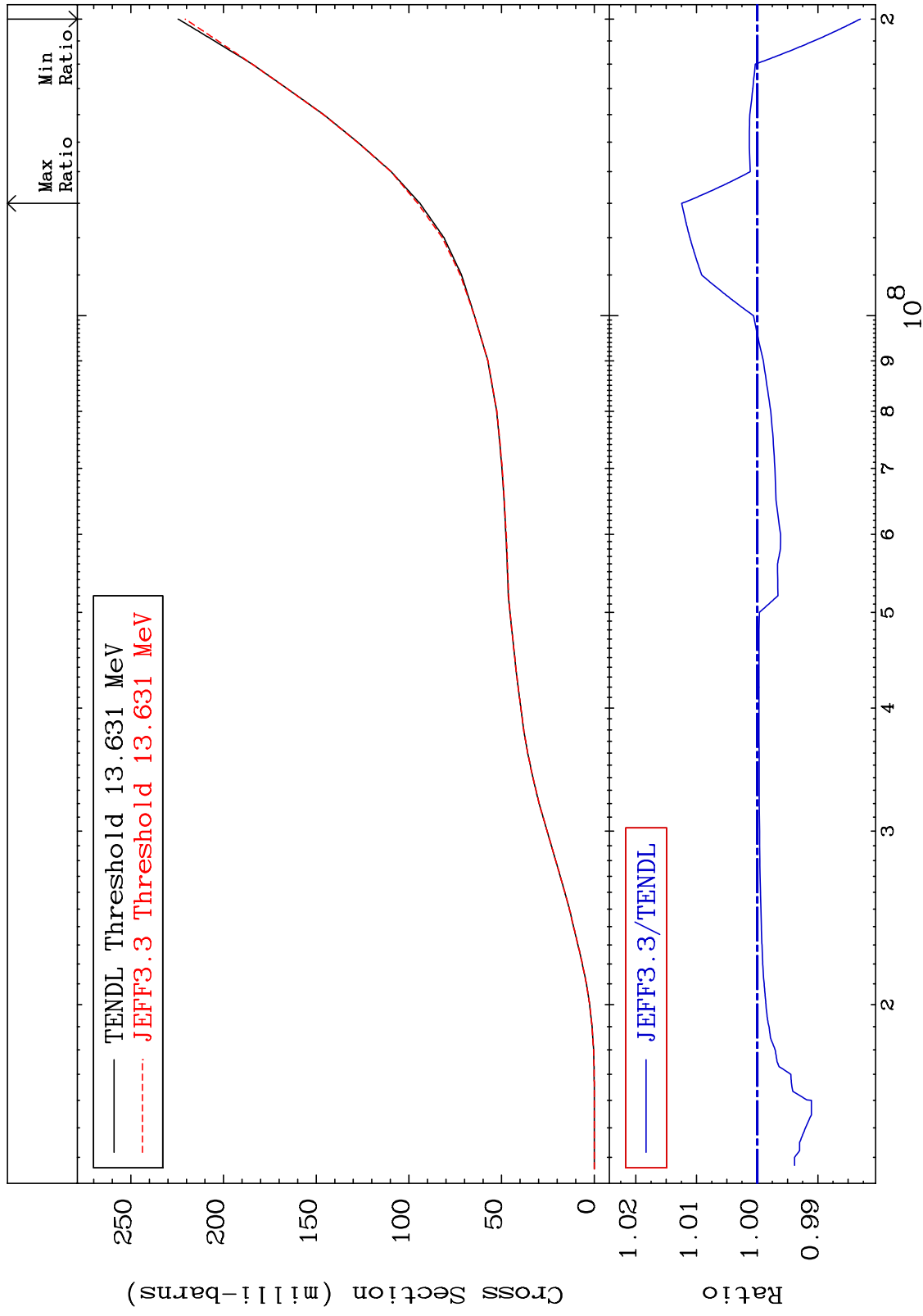
MAT 2037 Deuterium Production Cross Section 20-Ca-44 -1.716 To 0.099 %



62 20-Ca-44

Tritium Production  
Cross Section

20-Ca-44  
-1.701 To 1.244 %

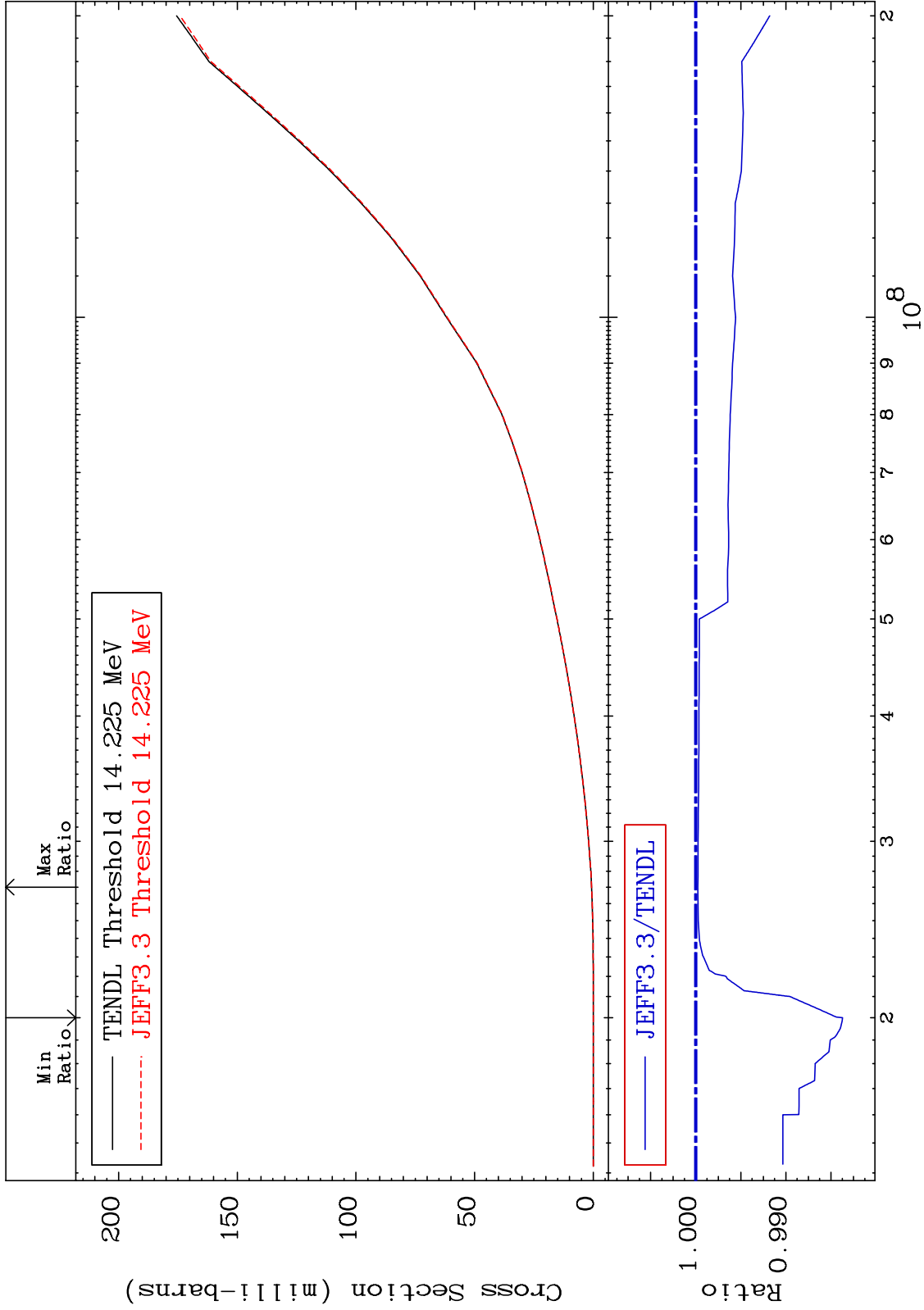




MAT 2037

He-3 Production  
Cross Section

20-Ca-44  
-1.630 To -0.023%



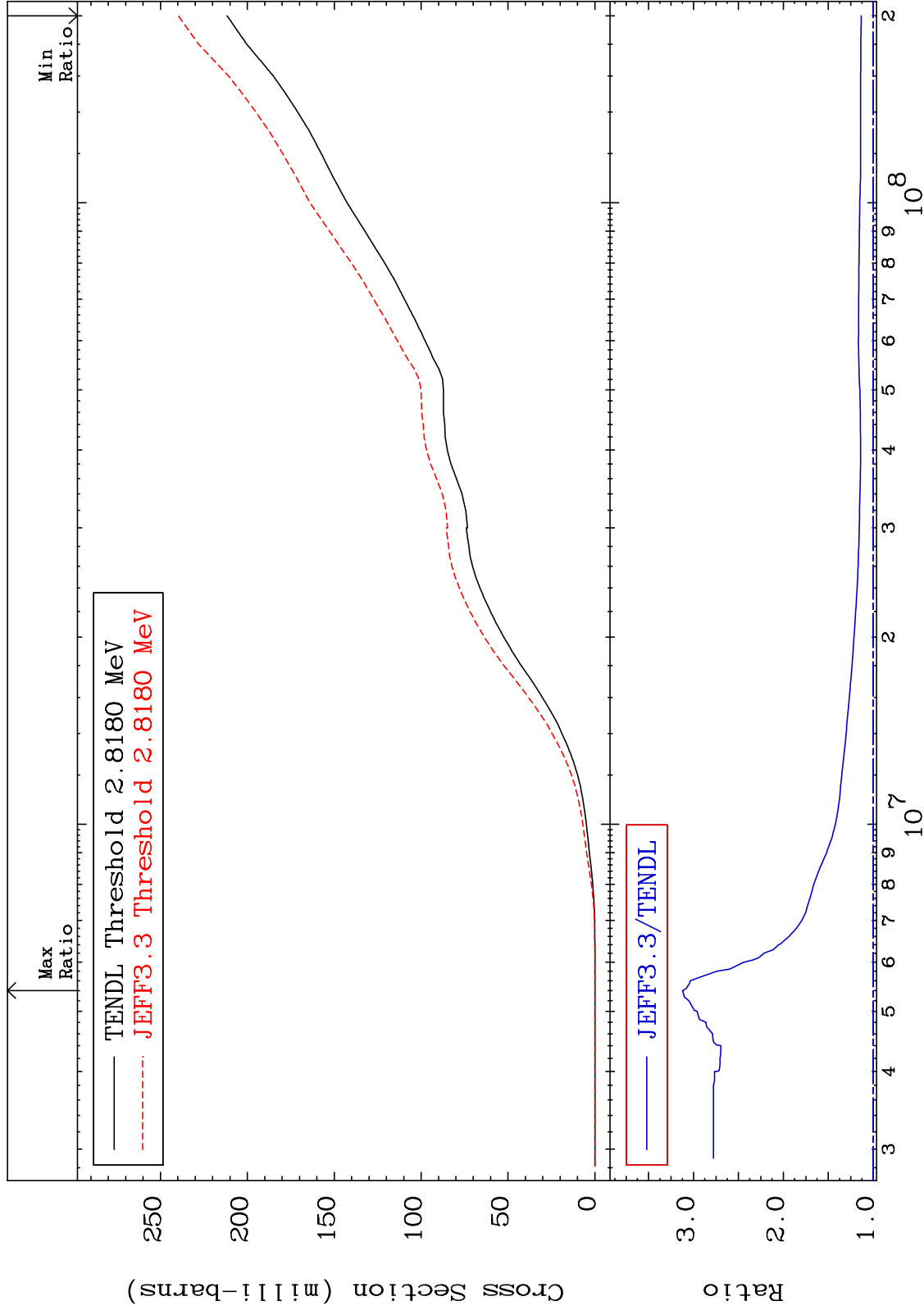
64

20-Ca-44

MAT 2037

He-4 Production  
Cross Section

20-Ca-44  
13.27 To 212.3 %

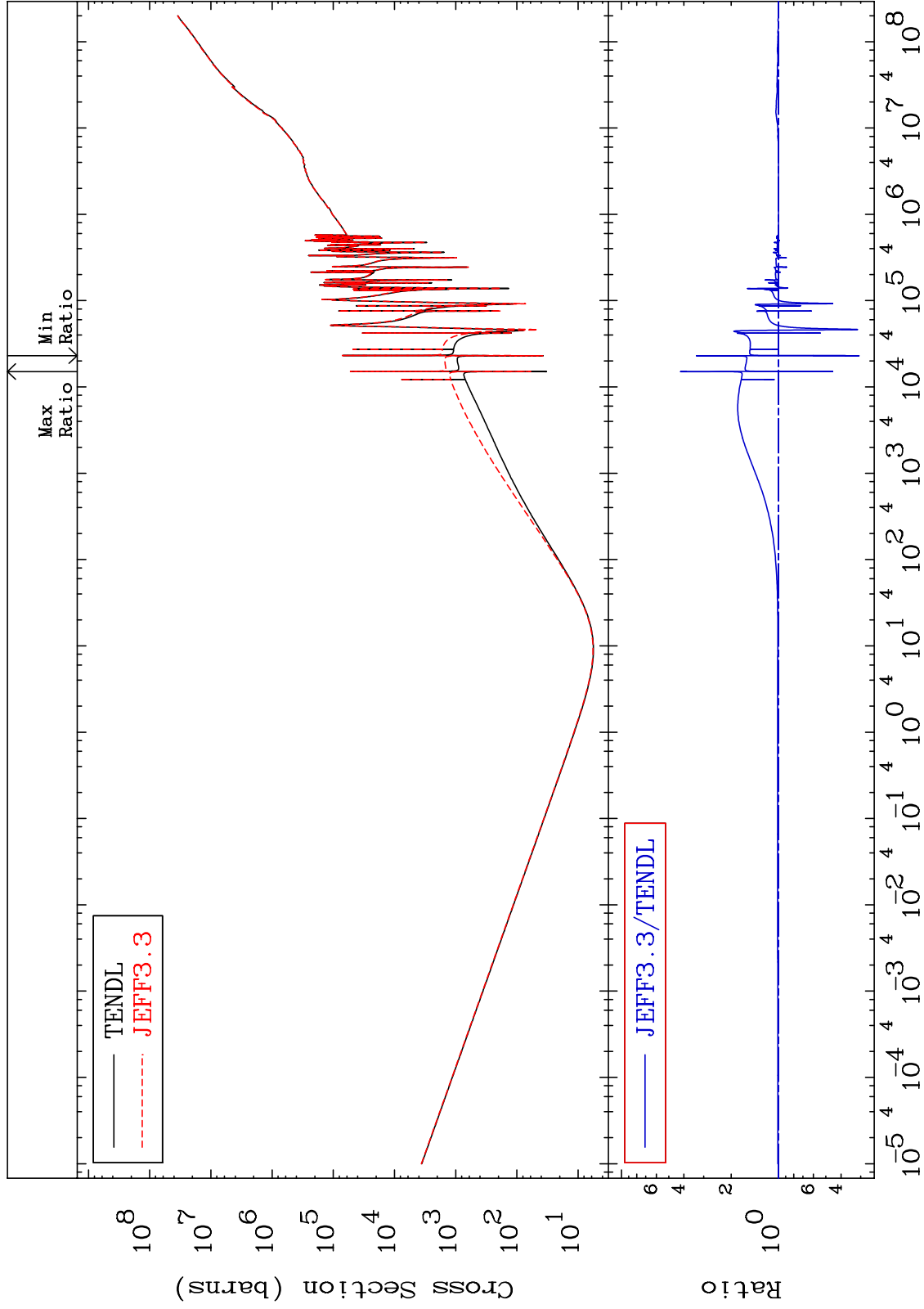


65

MAT 2037

Kerma total (eV-barns)  
Cross Section

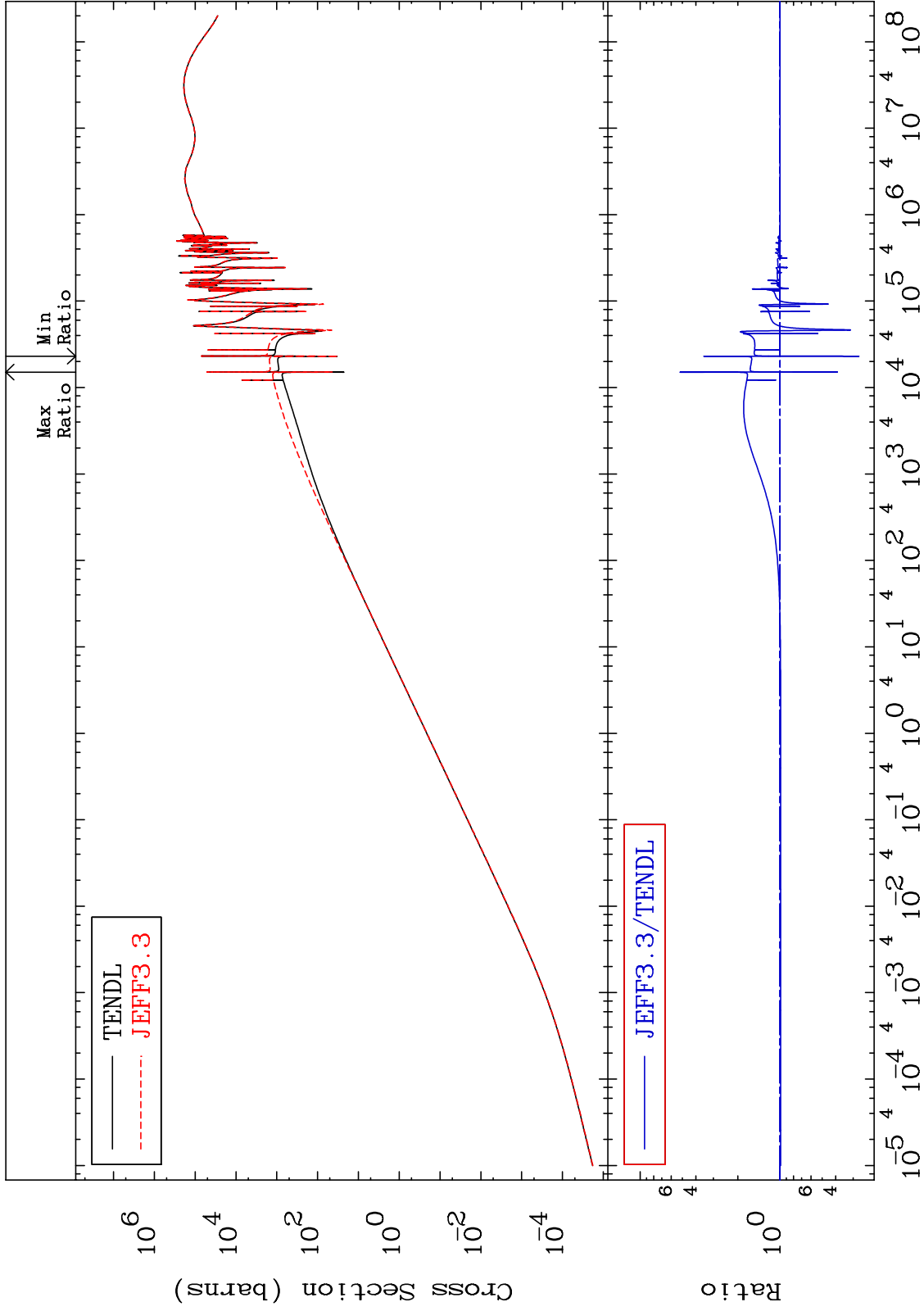
20-Ca-44  
-69.22 To 319.9 %



MAT 2037

Kerma elastic  
Cross Section

20-Ca-44  
-72.74 To 417.2 %



67

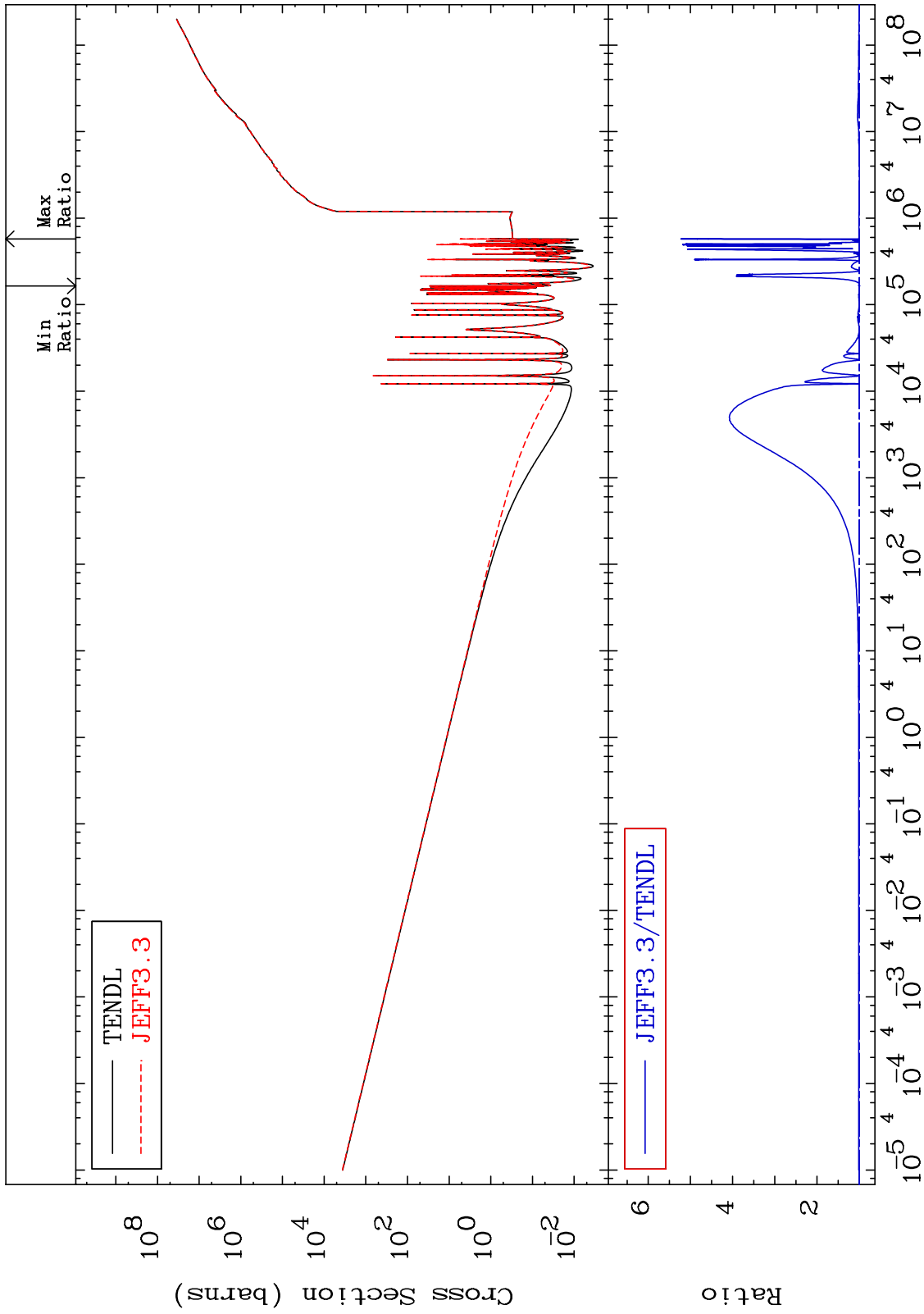
Incident Energy (eV)

20-Ca-44

MAT 2037

Kerma non-elastic (all but mt2)  
Cross Section

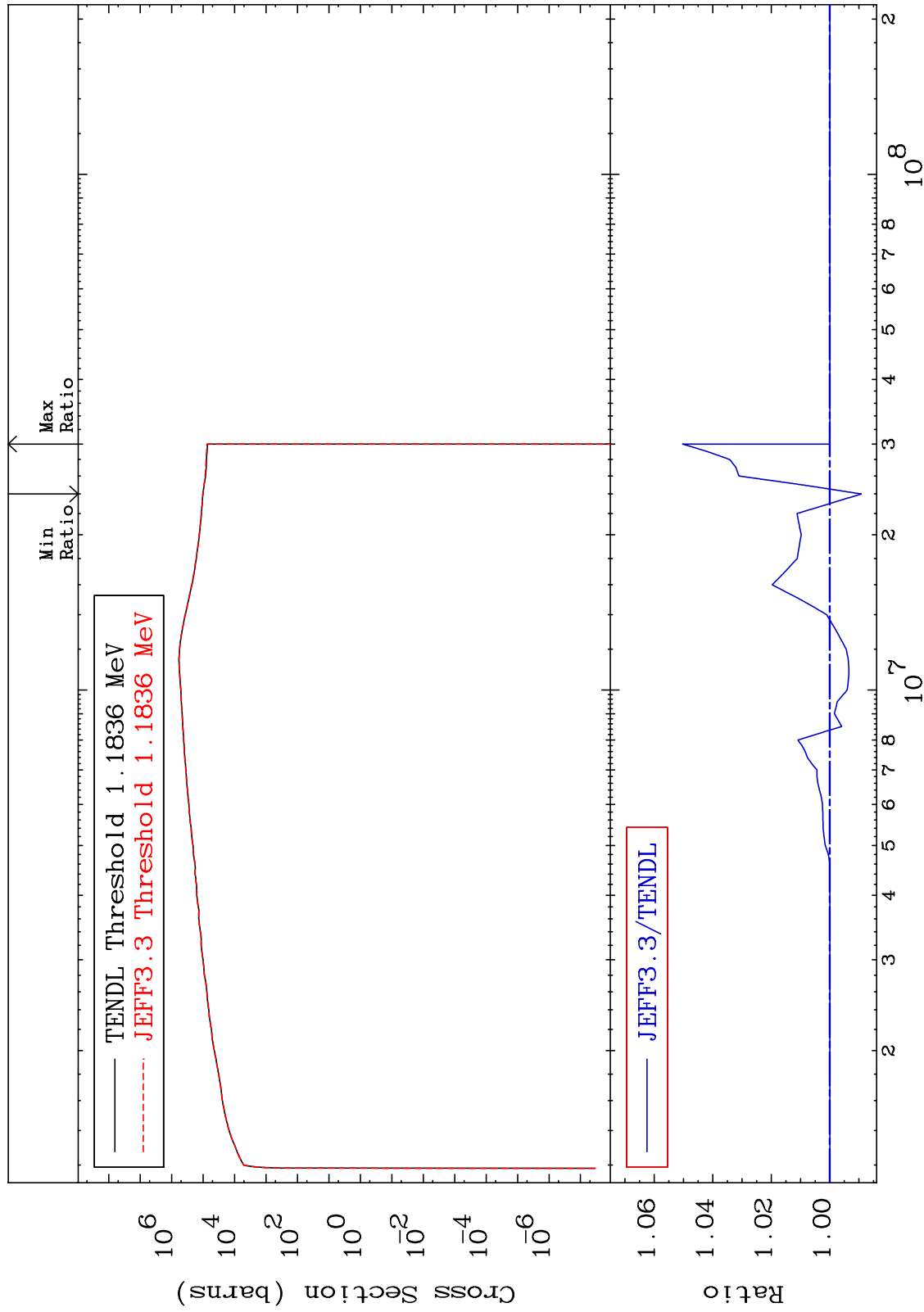
20-Ca-44  
-0.880 To 422.7 %



MAT 2037

Kerma inelastic (mt51-91)  
Cross Section

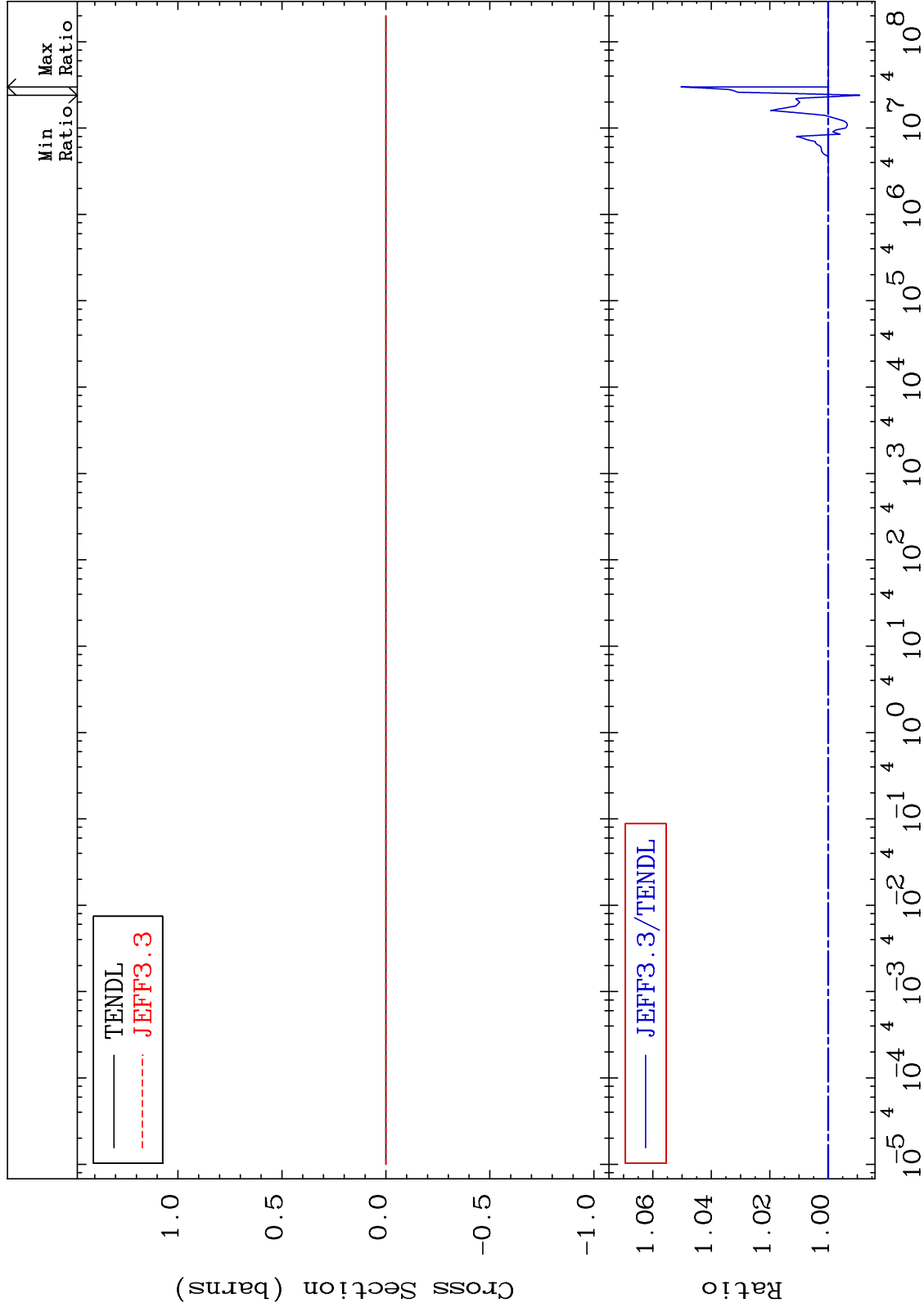
20-Ca-44  
-1.081 To 5.029 %



MAT 2037

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

20-Ca-44  
-1.081 To 5.029 %



70

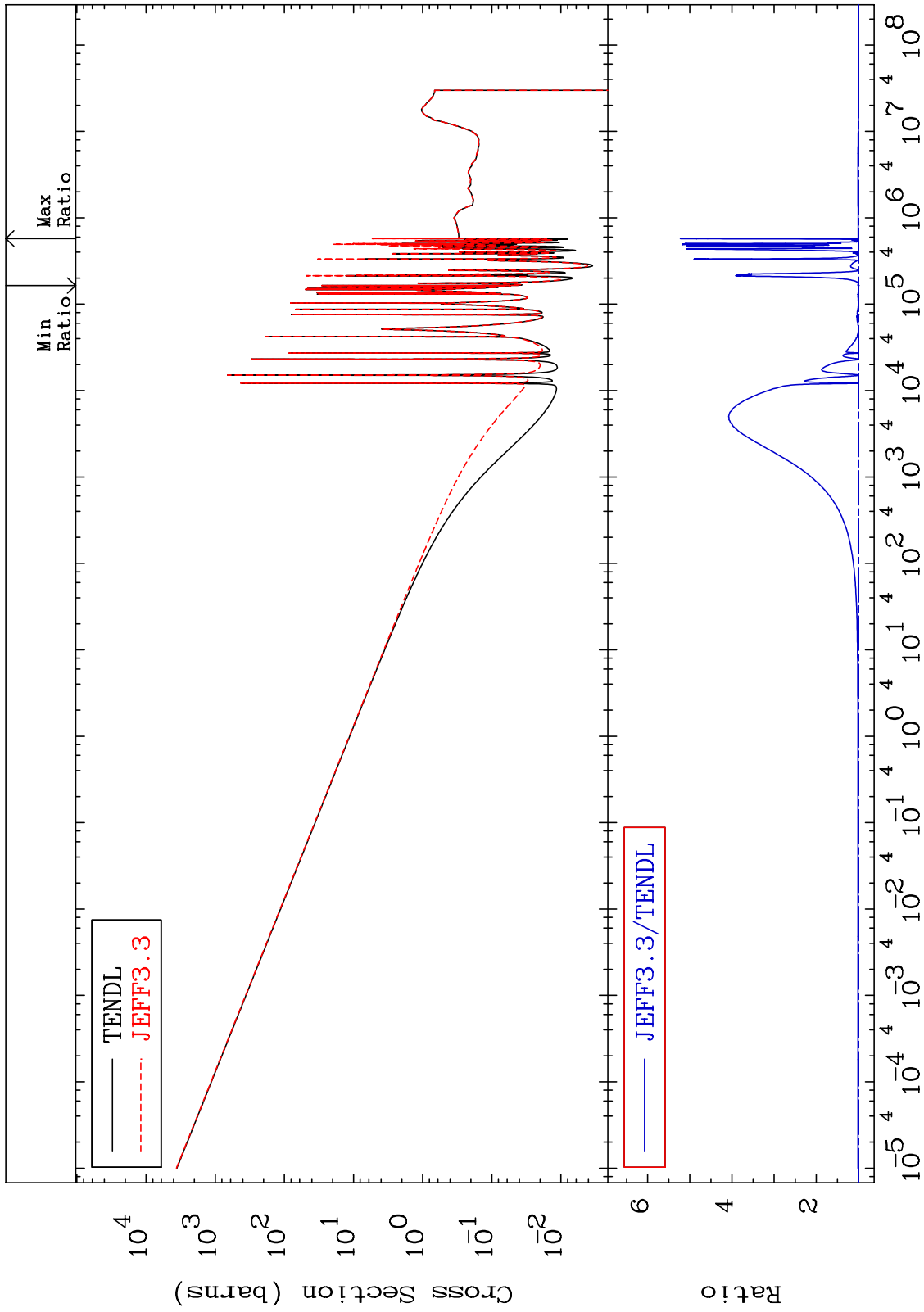
Incident Energy (eV)

20-Ca-44

MAT 2037

Kerma capture (mt102)  
Cross Section

20-Ca-44  
-0.880 To 422.7 %



71

Incident Energy (eV)

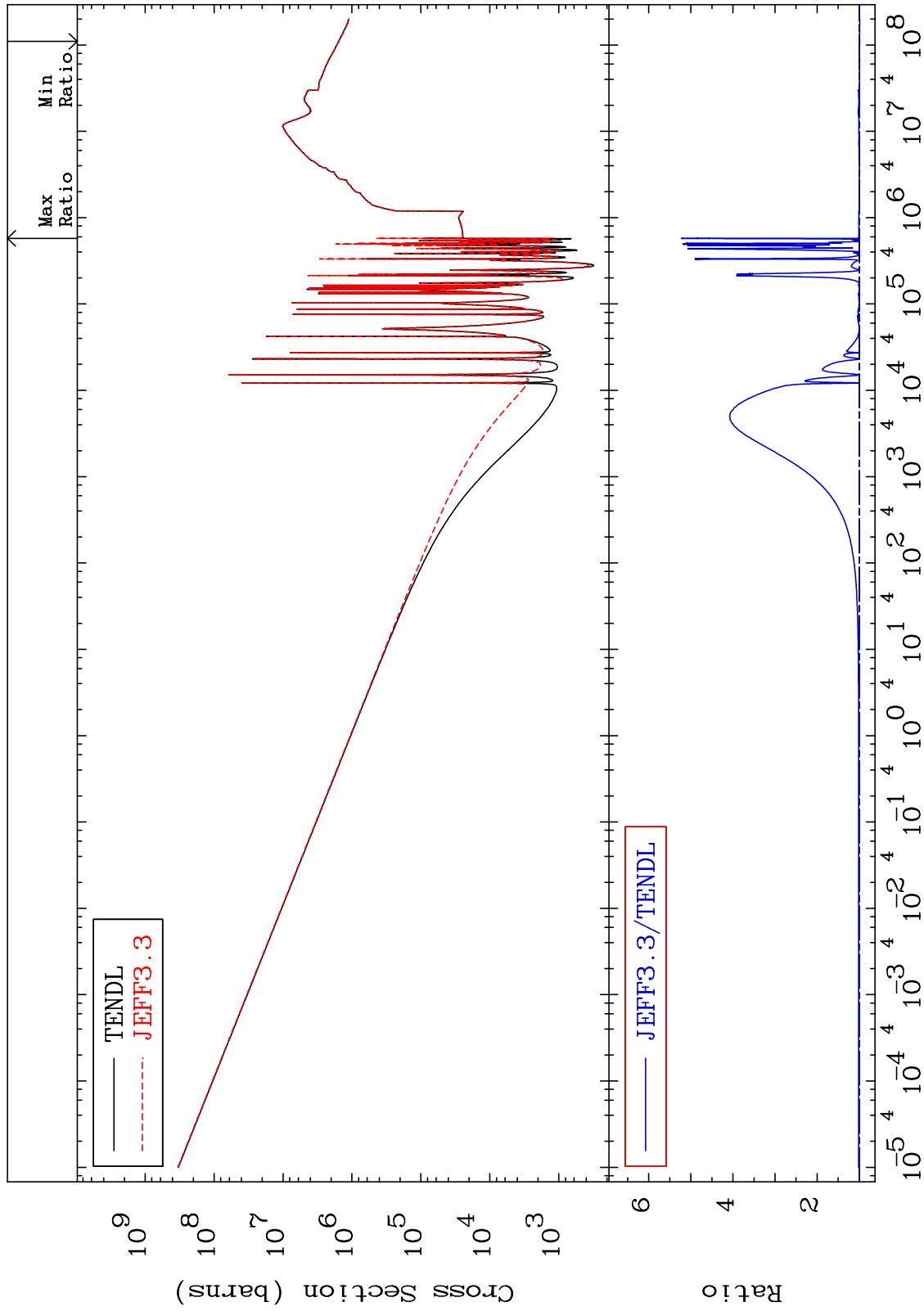
20-Ca-44



MAT 2037

Total photon (eV-barns)  
Cross Section

20-Ca-44  
-1.264 To 422.8 %



72

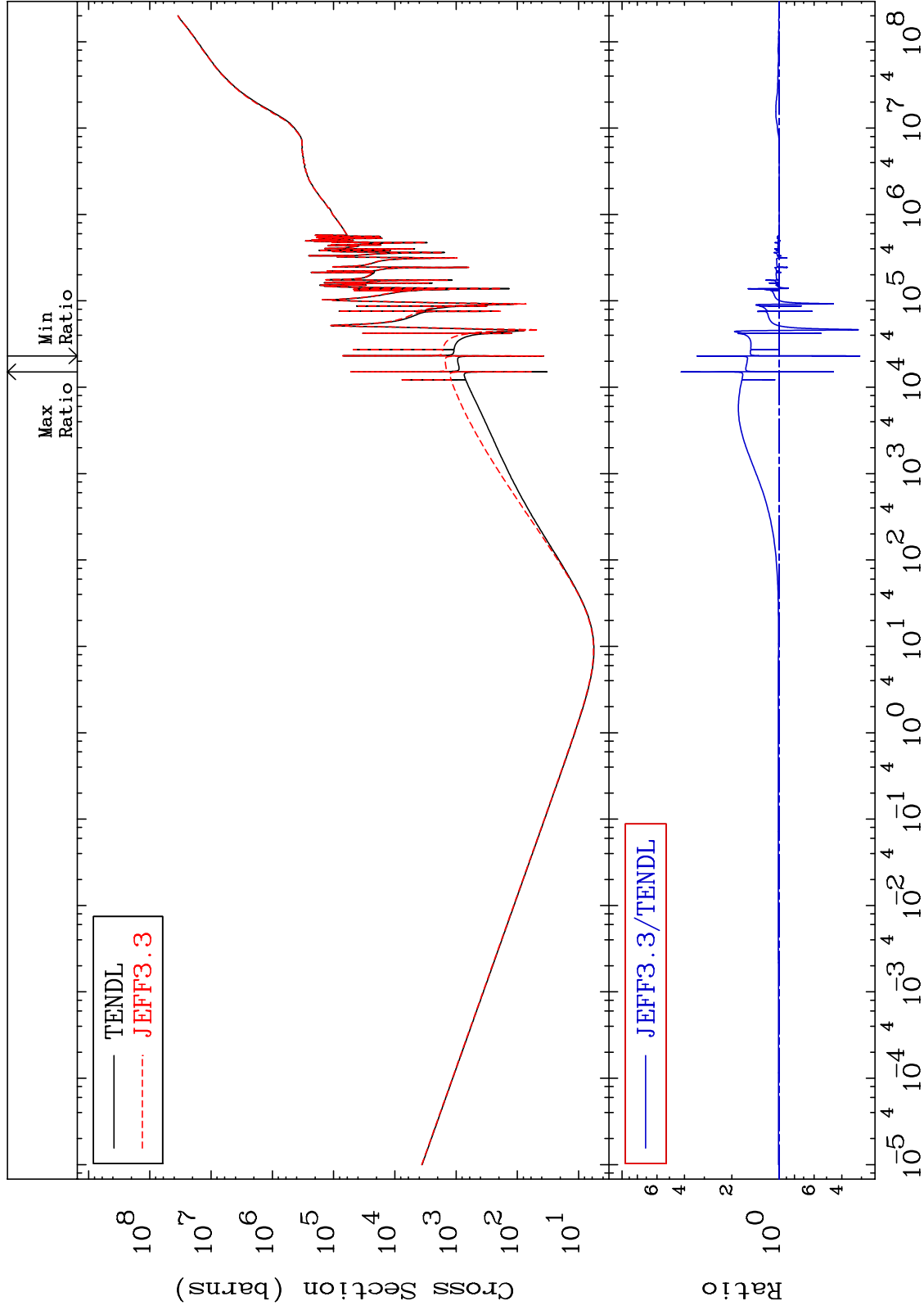
Incident Energy (eV)

20-Ca-44

MAT 2037

Total kinematic kerma (high limit)  
Cross Section

20-Ca-44  
-69.22 To 319.9 %



73

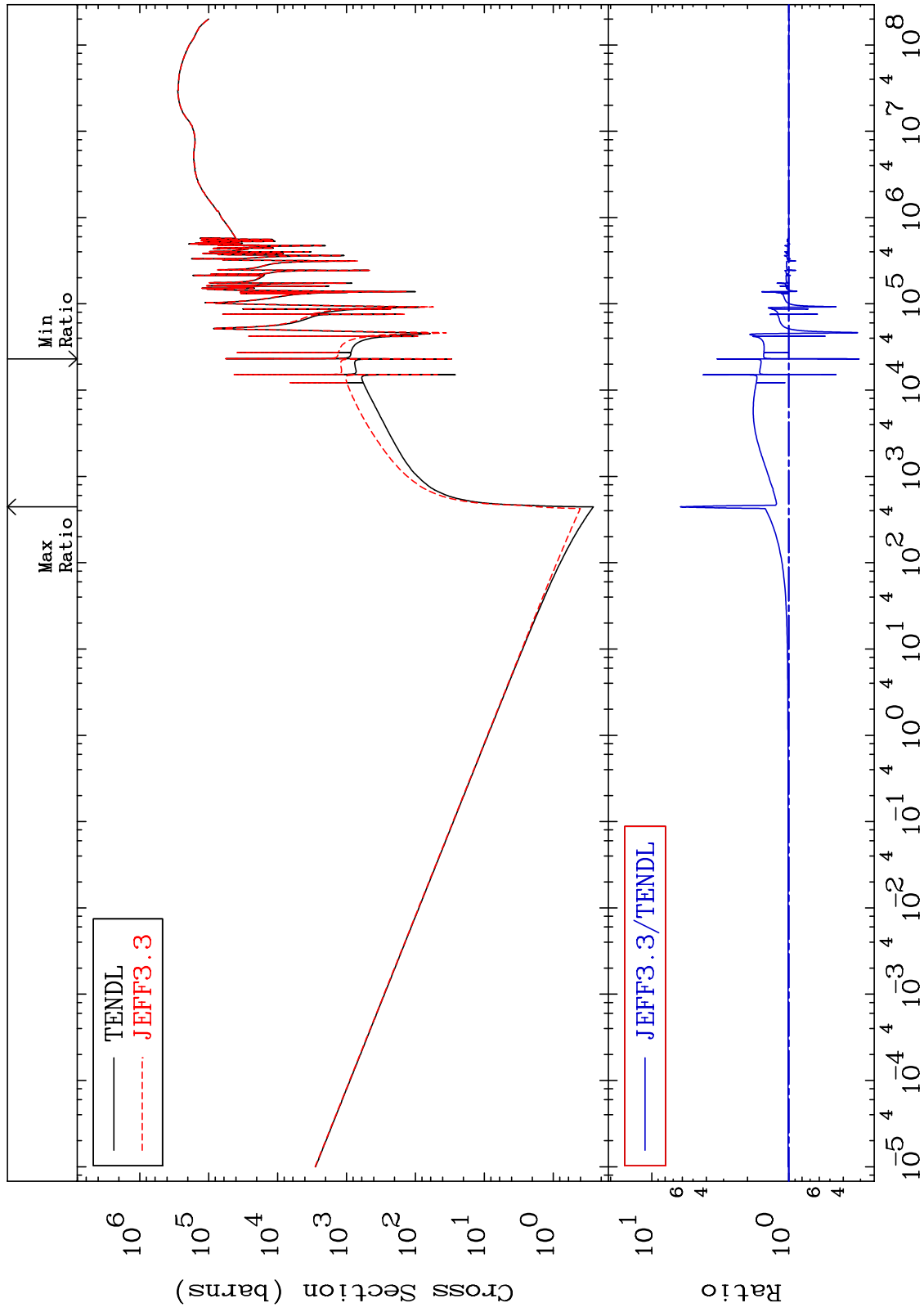
Incident Energy (eV)

20-Ca-44

MAT 2037

Dpa total (eV-barns)  
Cross Section

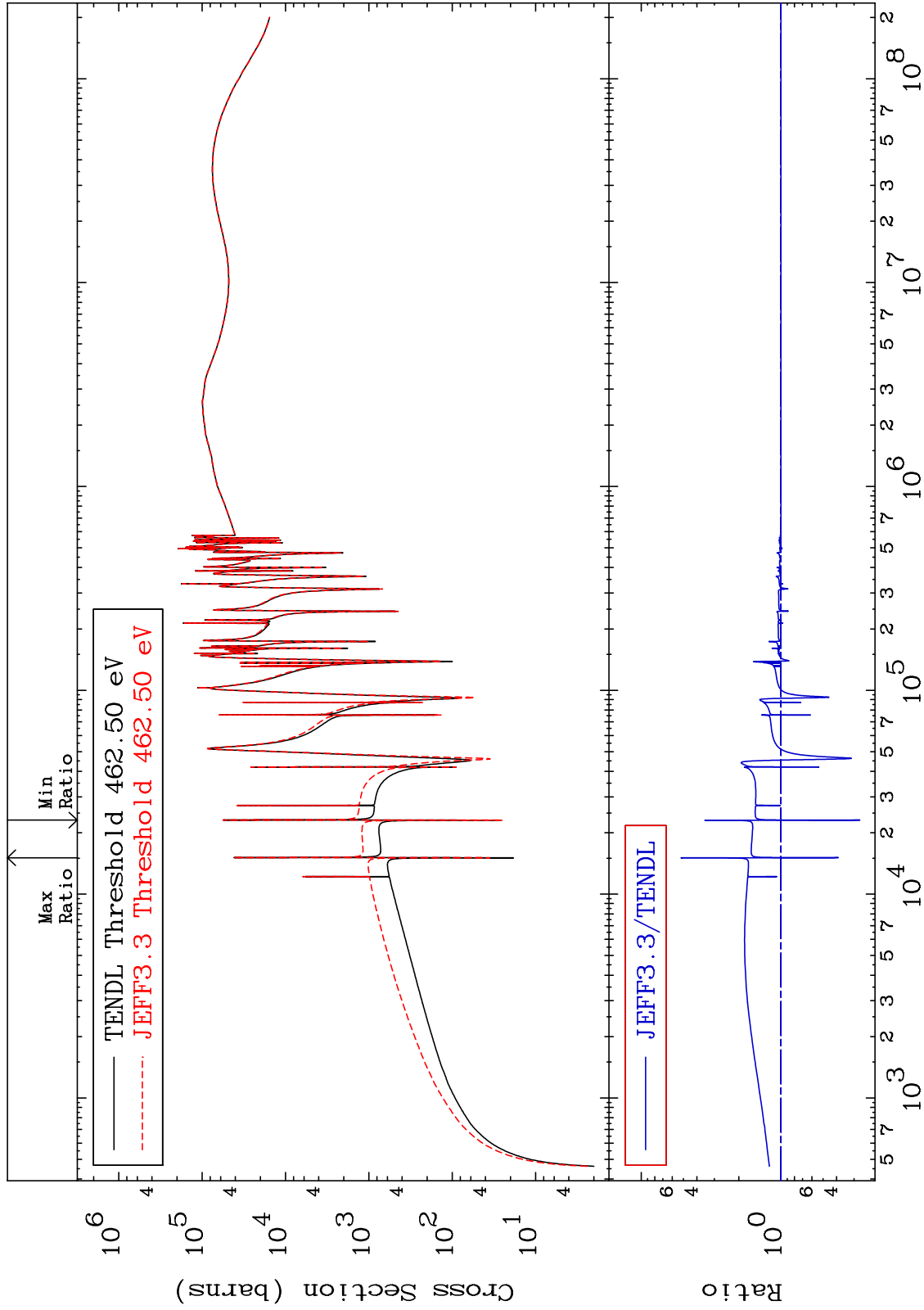
20-Ca-44  
-69.29 To 516.3 %

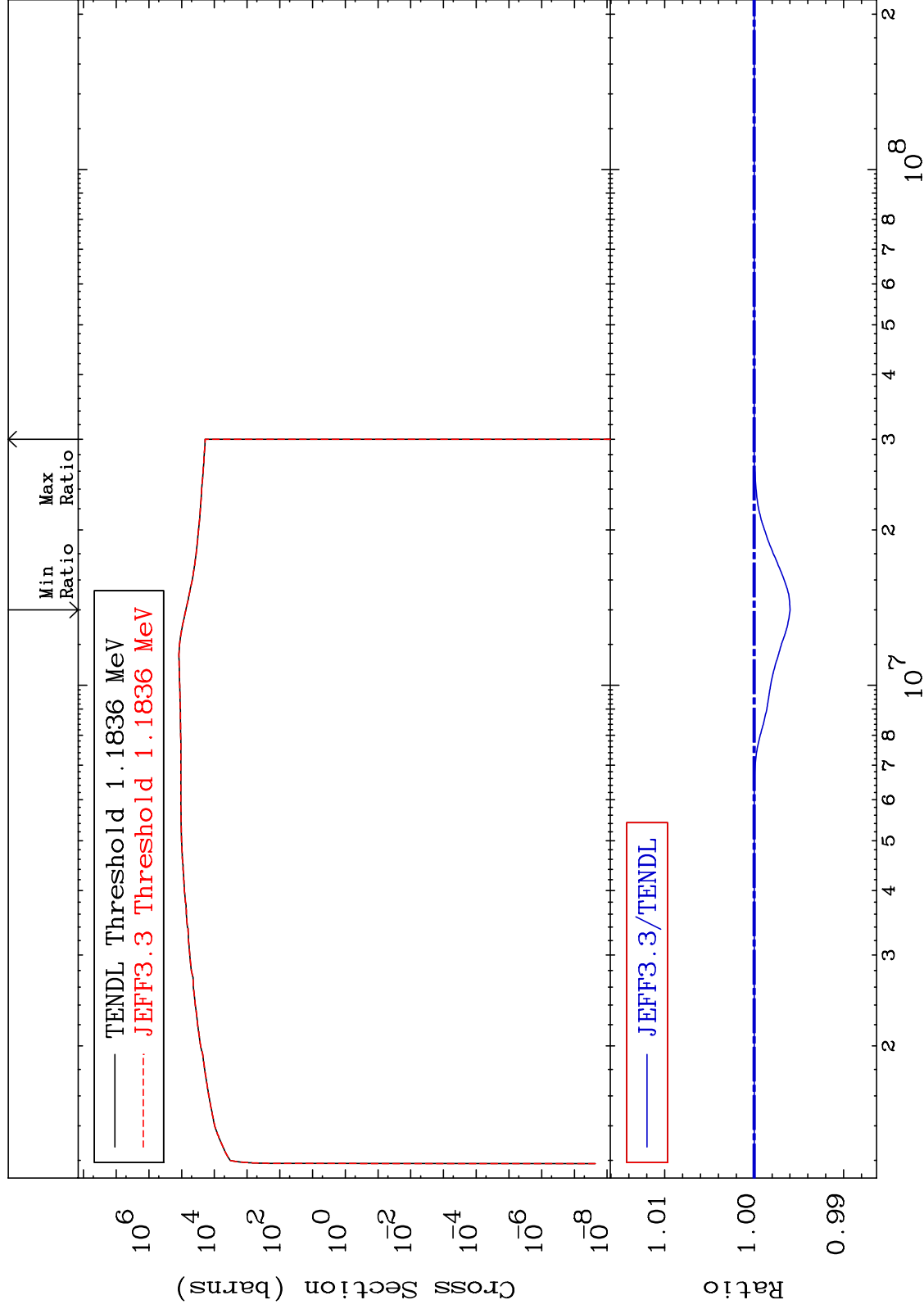


MAT 2037

Dpa elastic (mt2)  
Cross Section

20-Ca-44  
-72.74 To 417.2 %

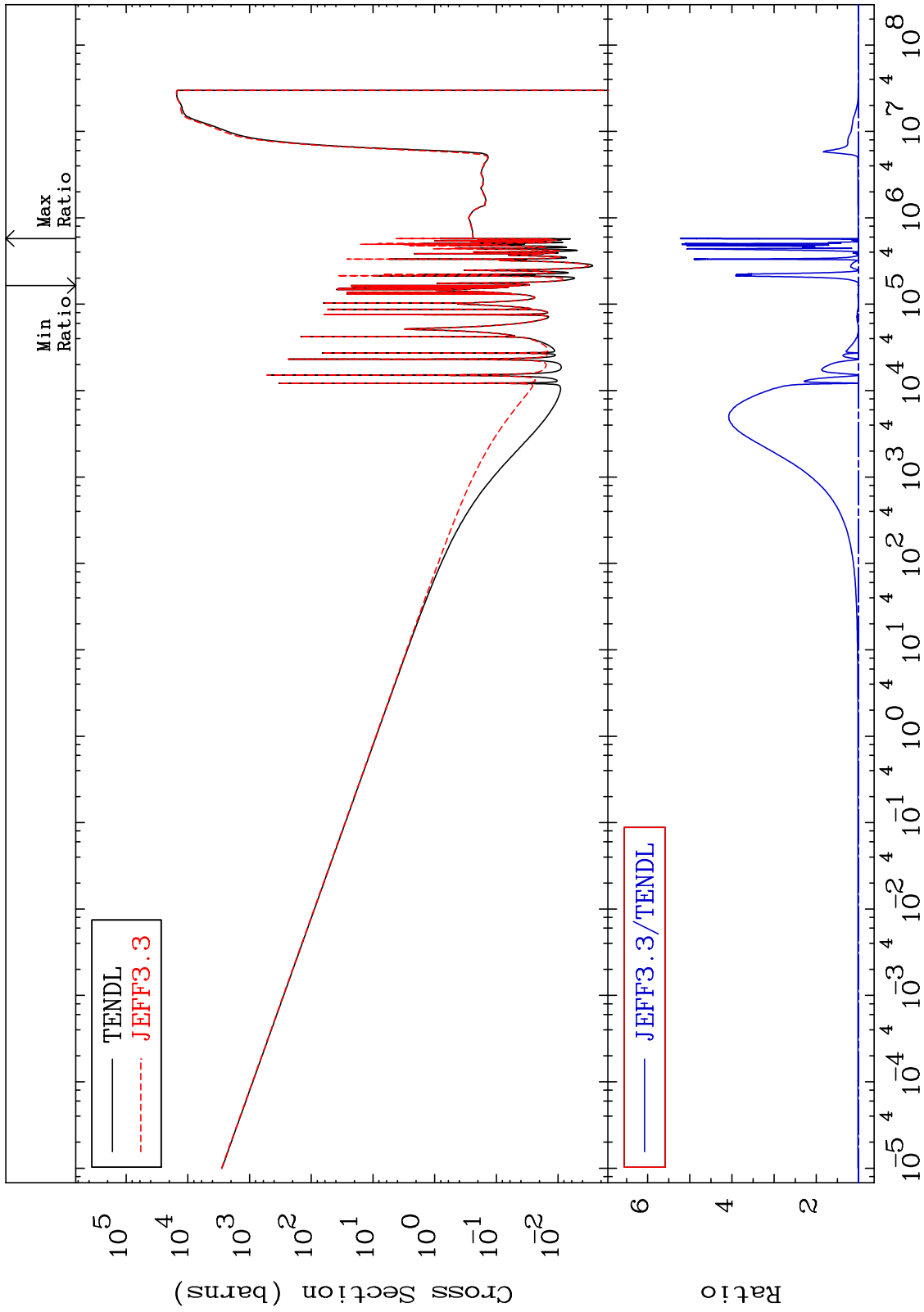




MAT 2037

Dpa disappearance (mt102 -120)  
Cross Section

20-Ca-44  
-0.882 To 422.7 %



77

Incident Energy (eV)

20-Ca-44