

Program Complot  
(Version 2018-1)

by

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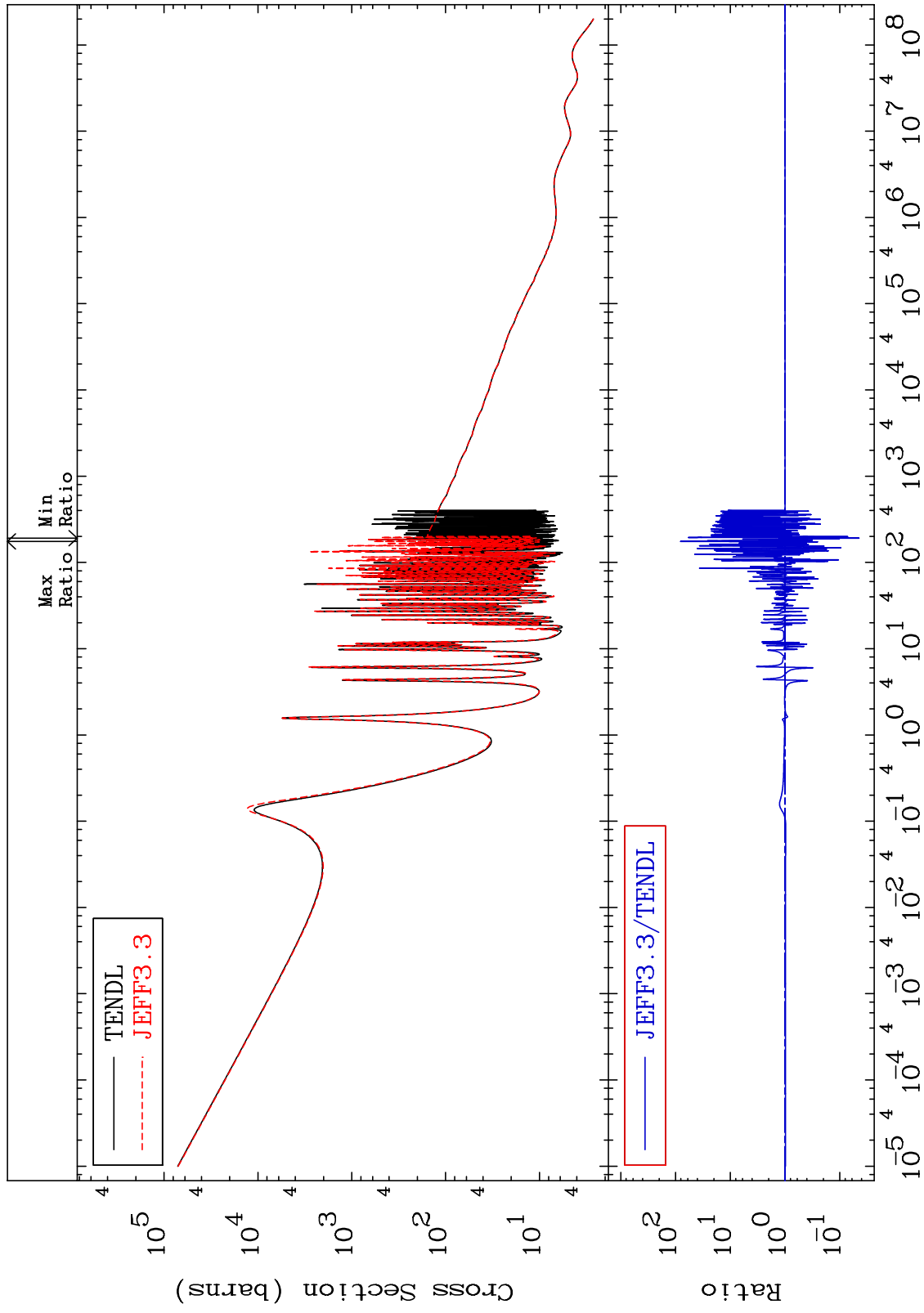
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7128

Total  
Cross Section

71-Lu-176  
-95.53 To 7985. %



Incident Energy (eV)

71-Lu-176

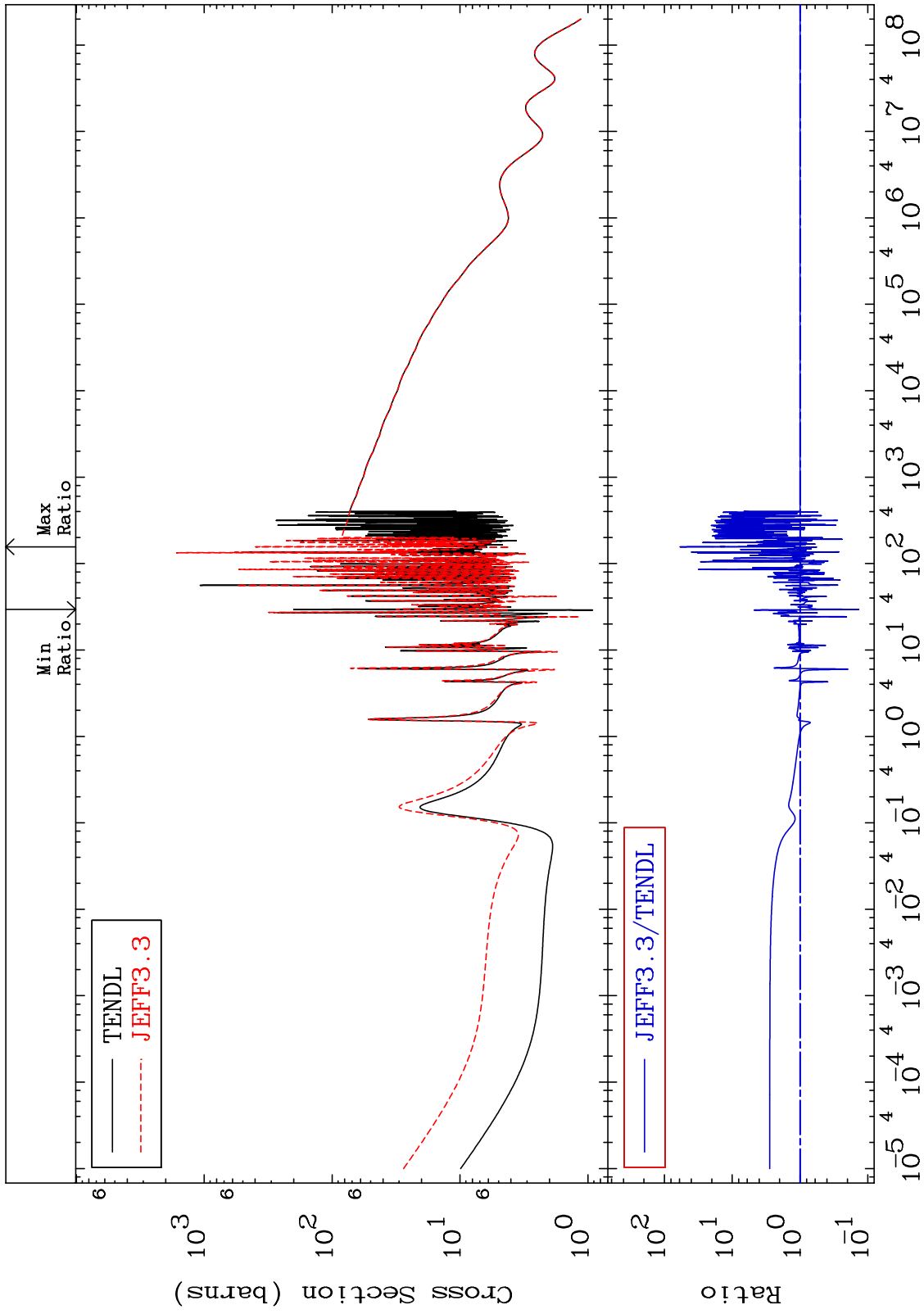
MAT 7128

Elastic

71-Lu-176

Cross Section

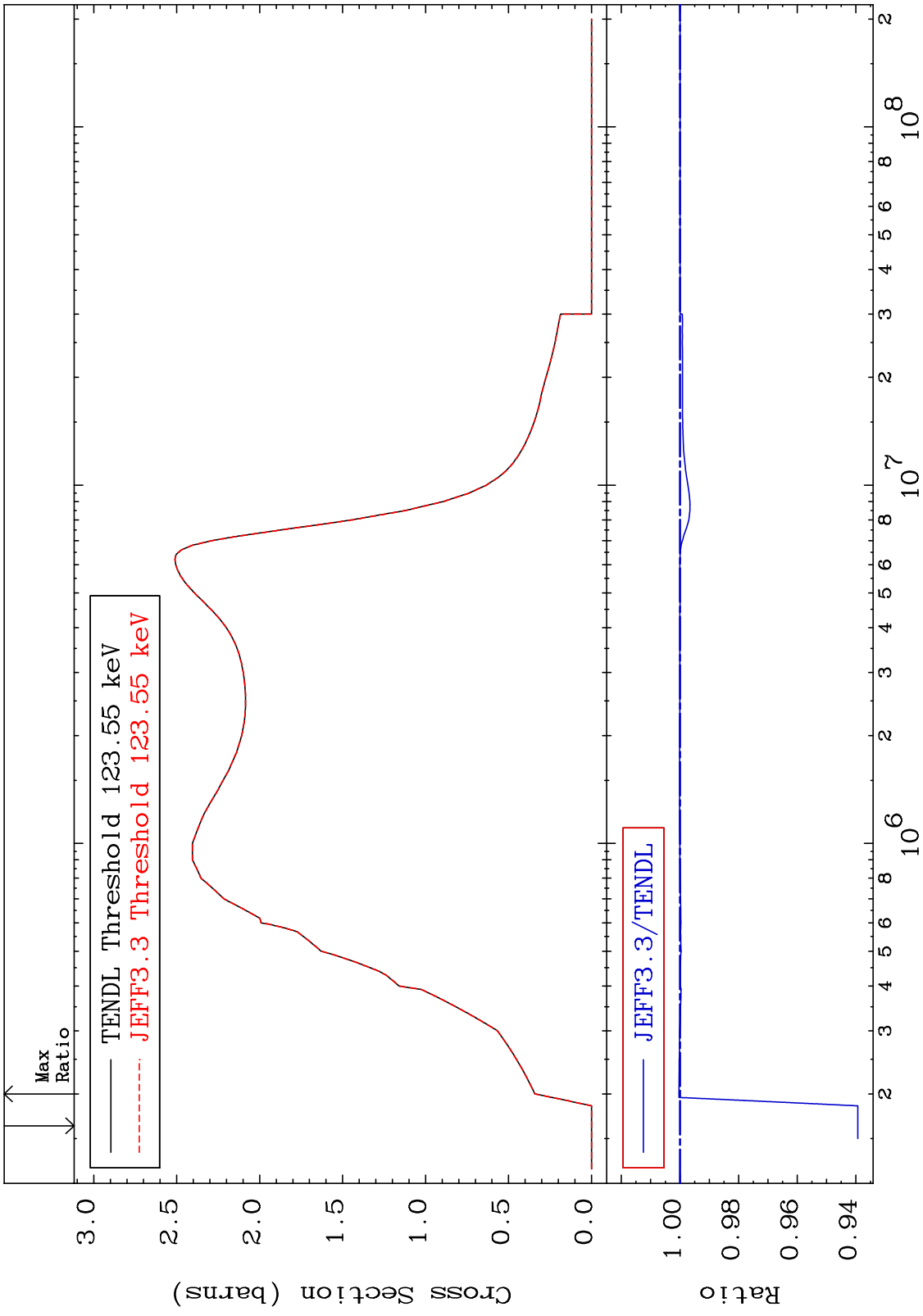
-86.44 To 5736. %



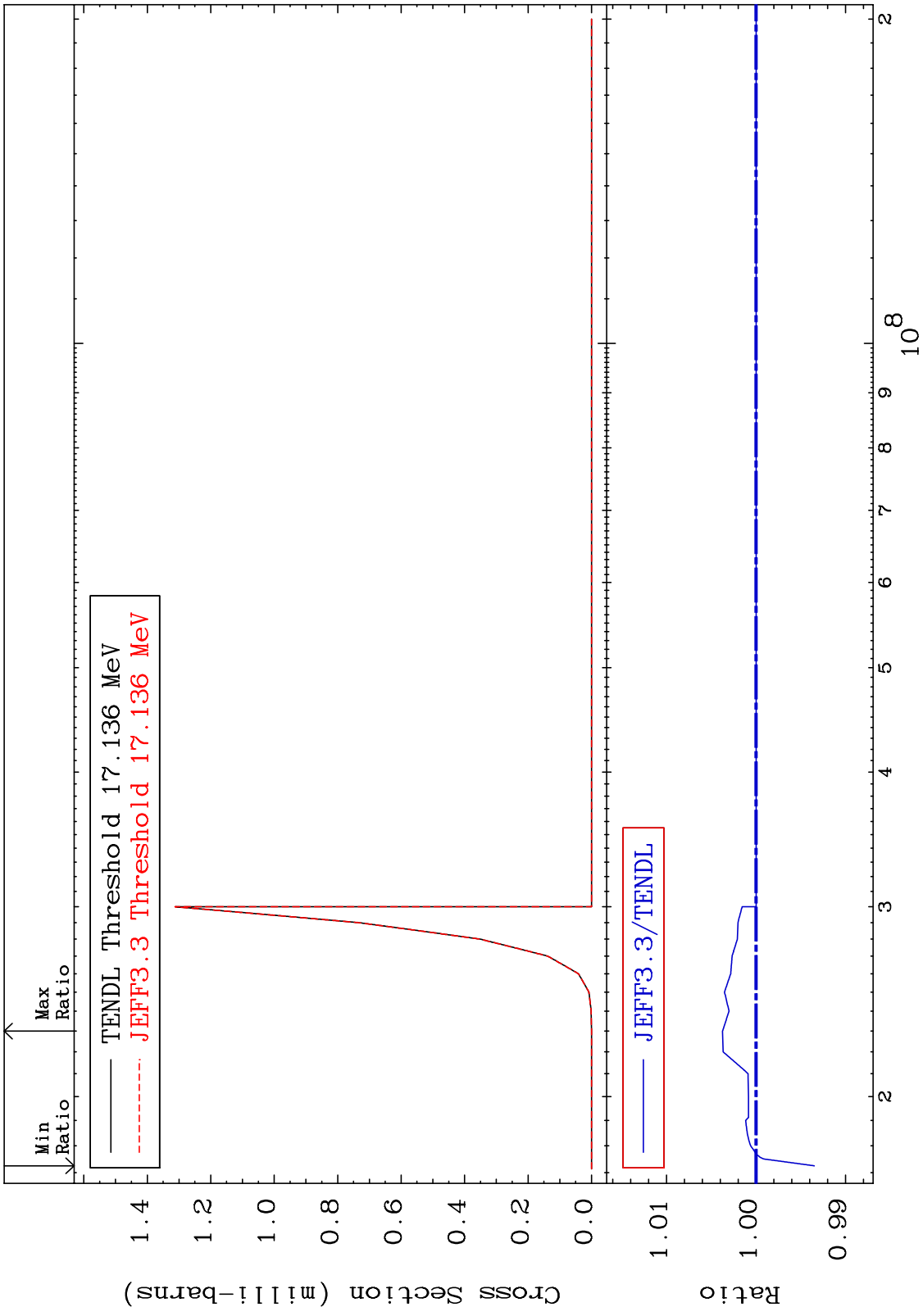
2

Incident Energy (eV)

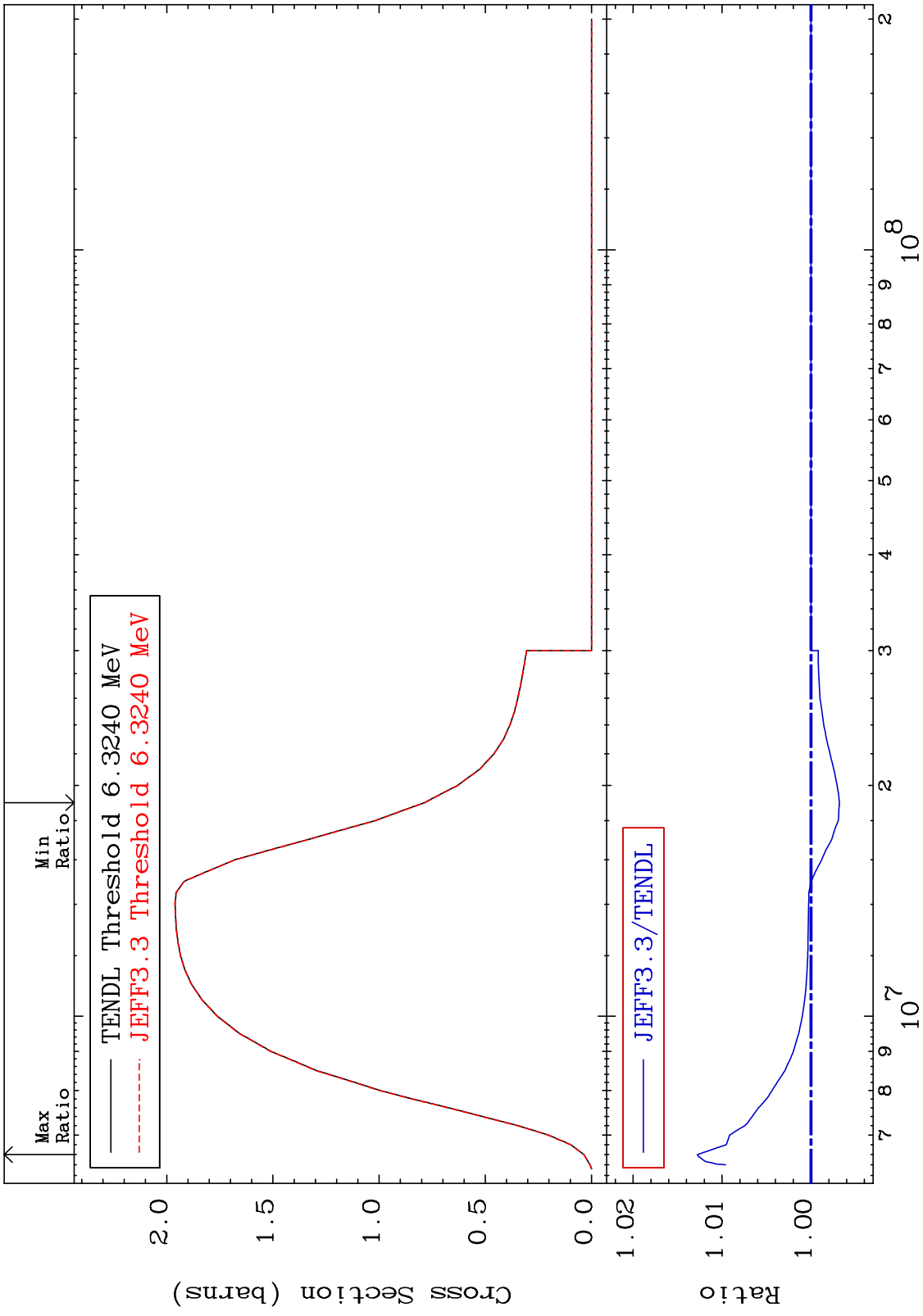
71-Lu-176



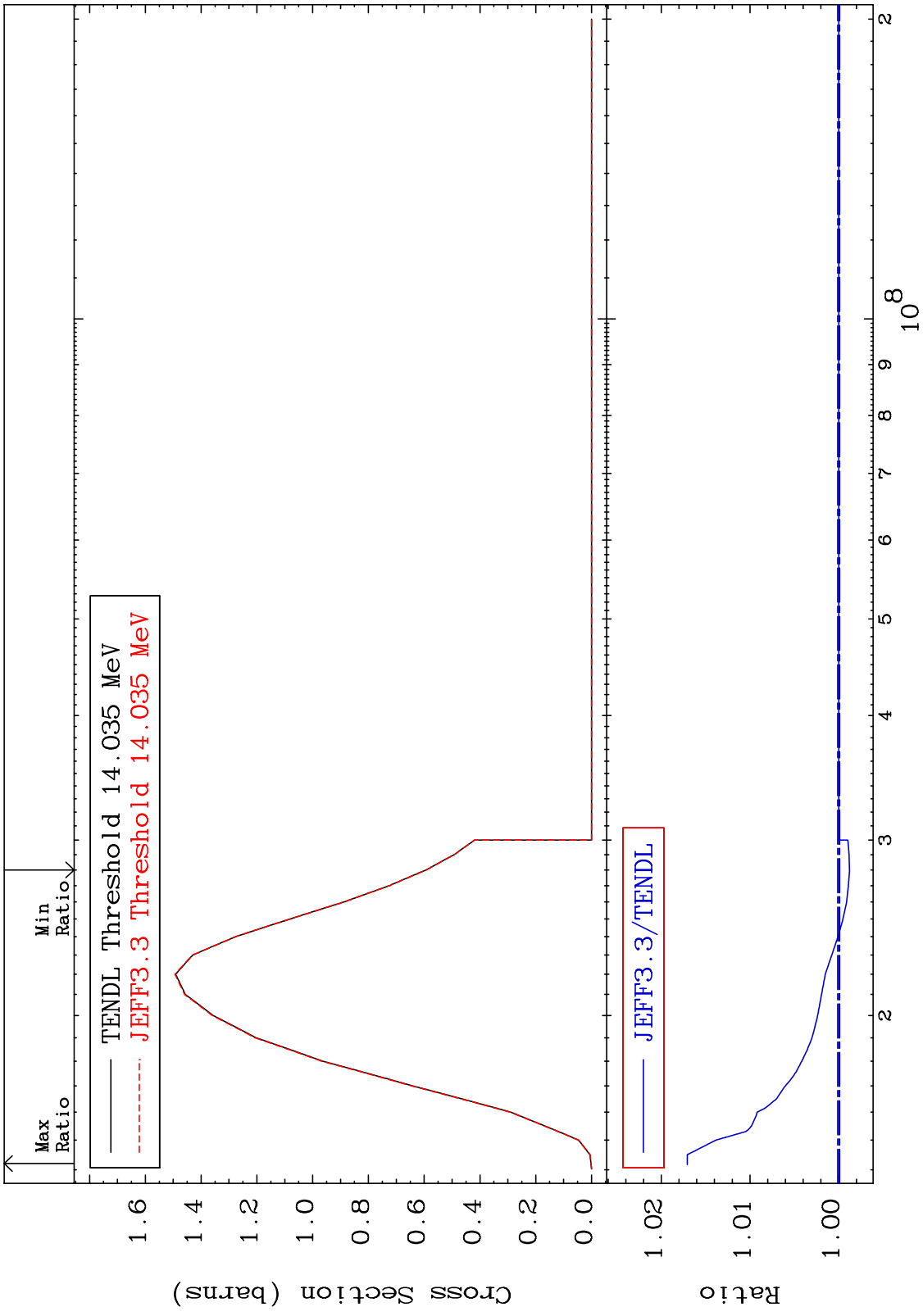
MAT 7128 (n,2n) d 71-Lu-176  
 Cross Section -0.651 To 0.374 %



MAT 7128 71-Lu-176  
-0.319 To 1.278 %  
 (n,2n) Cross Section



MAT 7128 (n,3n) 71-Lu-176  
 Cross Section -0.123 To 1.706 %



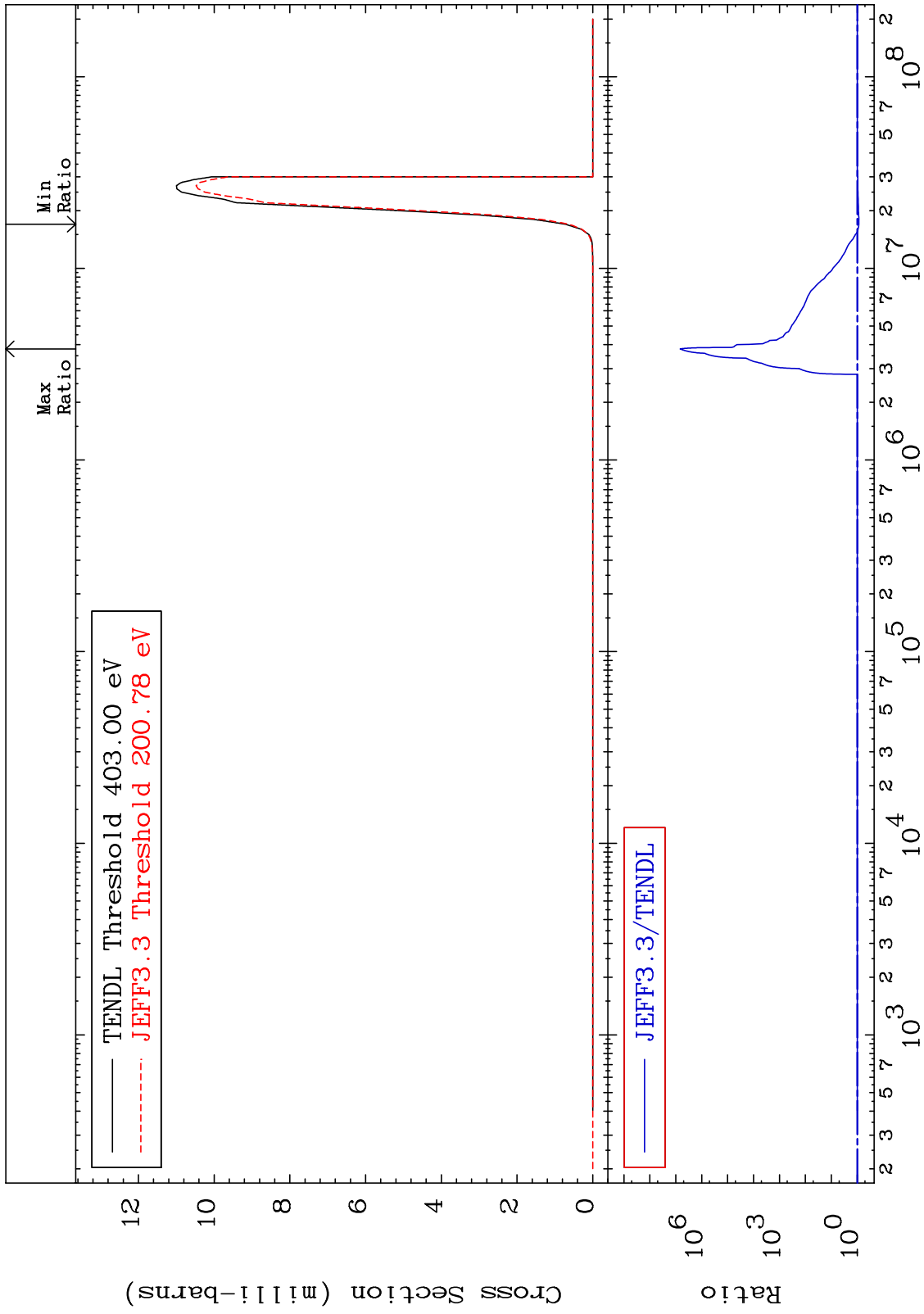
MAT 7128

(n, n')  $\alpha$

71-Lu-176

Cross Section

-13.48 To 9999. %



7

Incident Energy (eV)

71-Lu-176



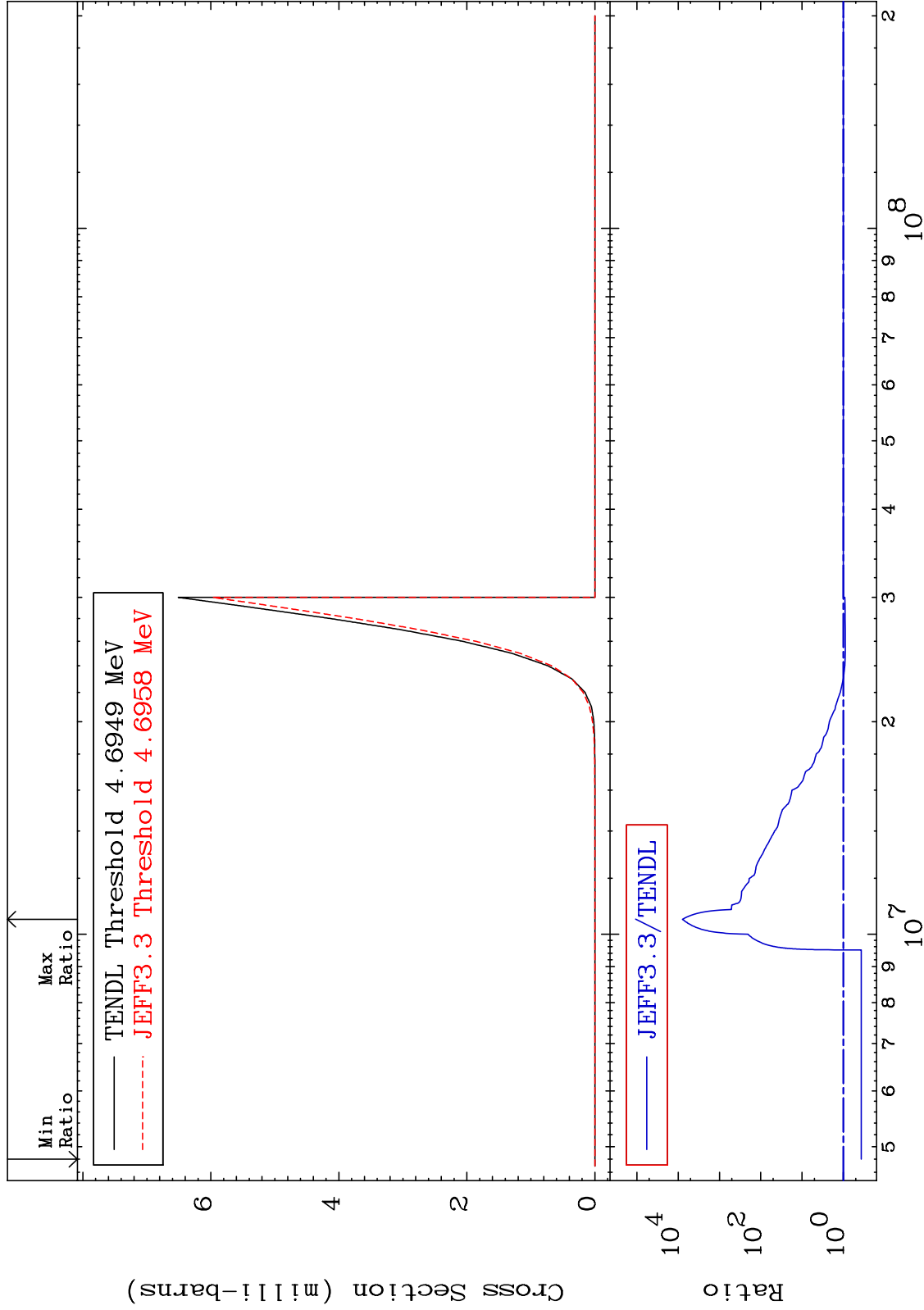
MAT 7128

(n,2n)  $\alpha$

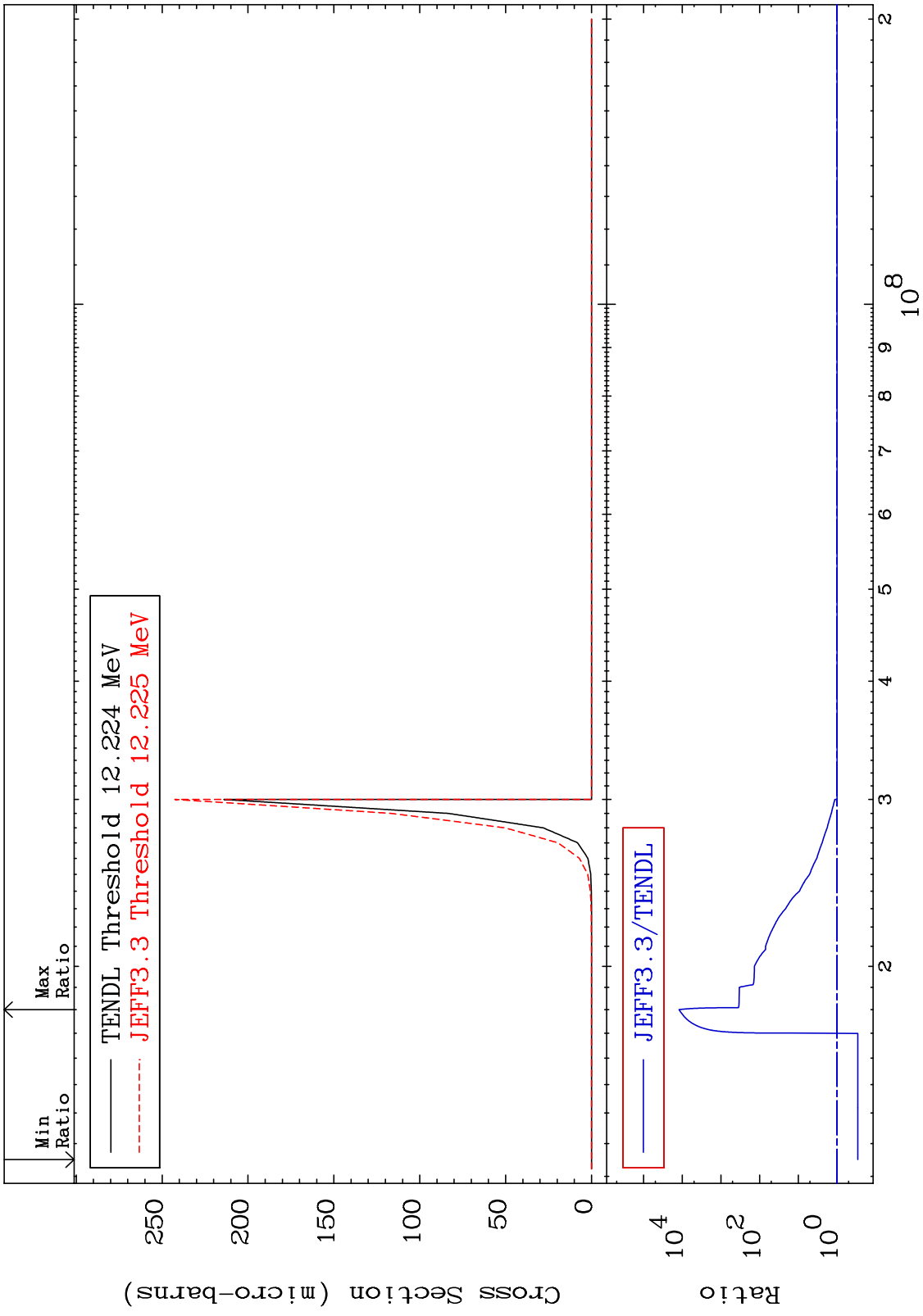
71-Lu-176

Cross Section

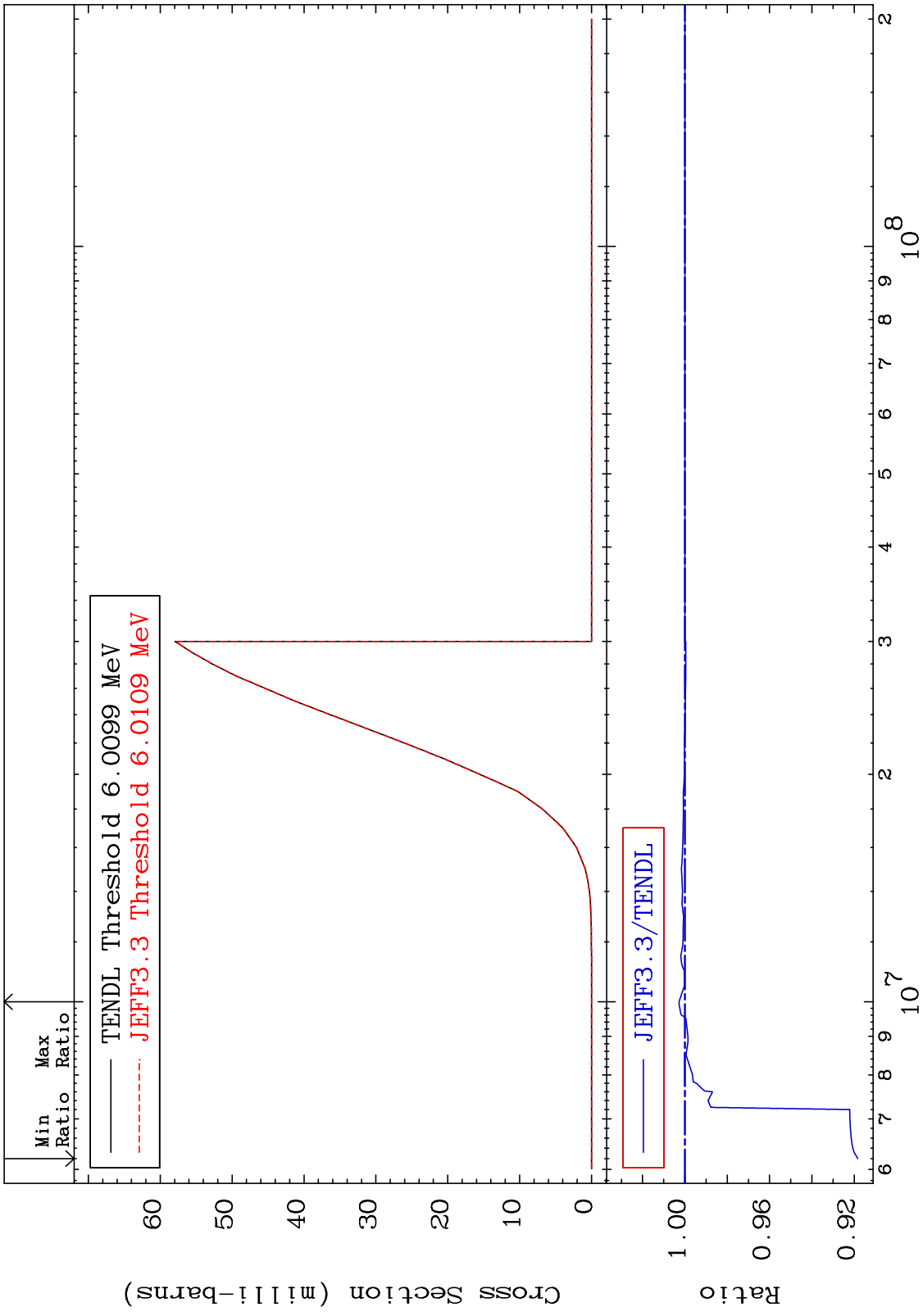
-63.11 To 9999. %



MAT 7128  $(n, 3n) \alpha$   $^{71}\text{Lu-176}$   
 Cross Section -71.15 To 9999. %

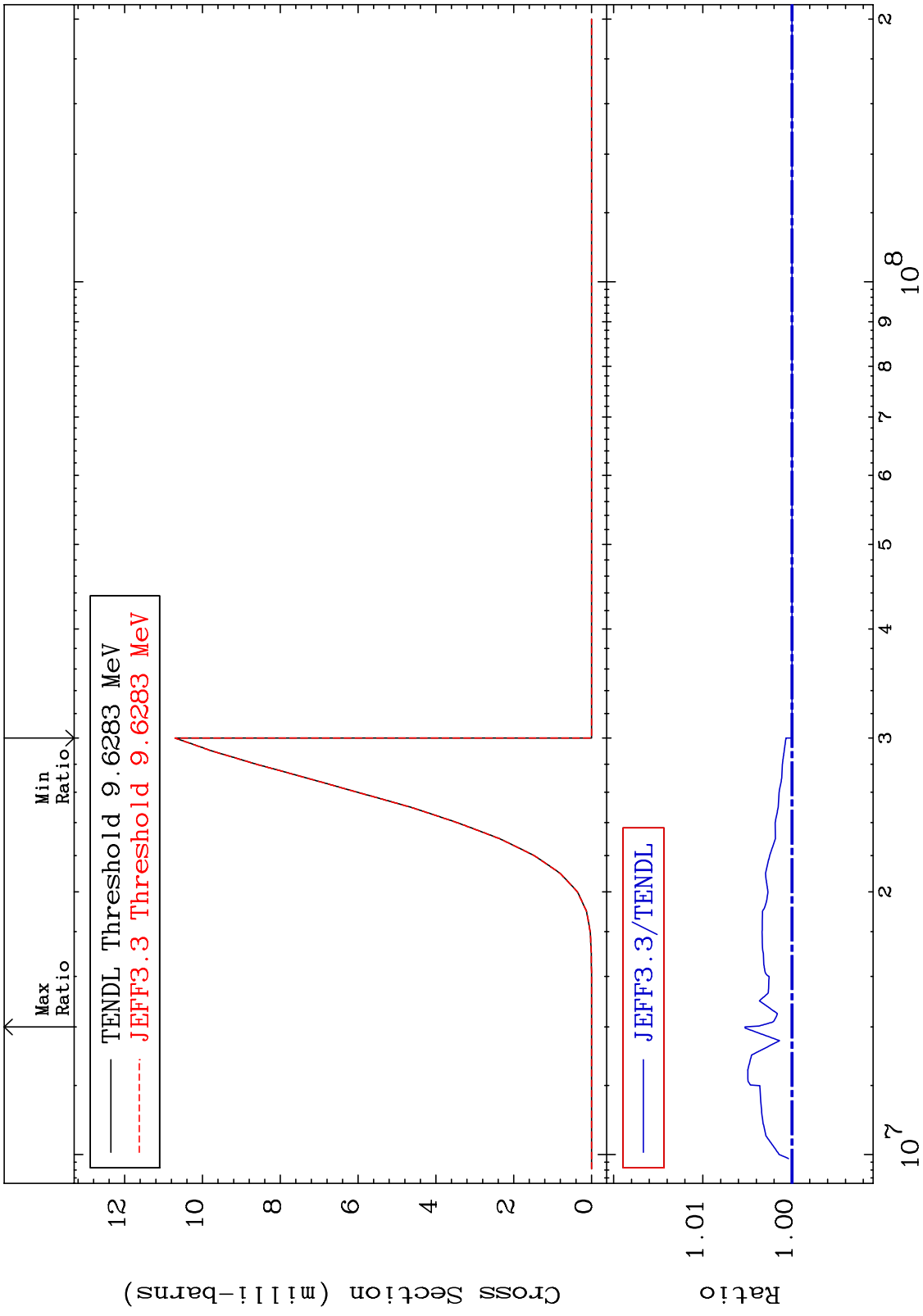


MAT 7128  $(n, n')$  p  $^{71}\text{Lu-176}$   
 Cross Section -8.170 To 0.276 %



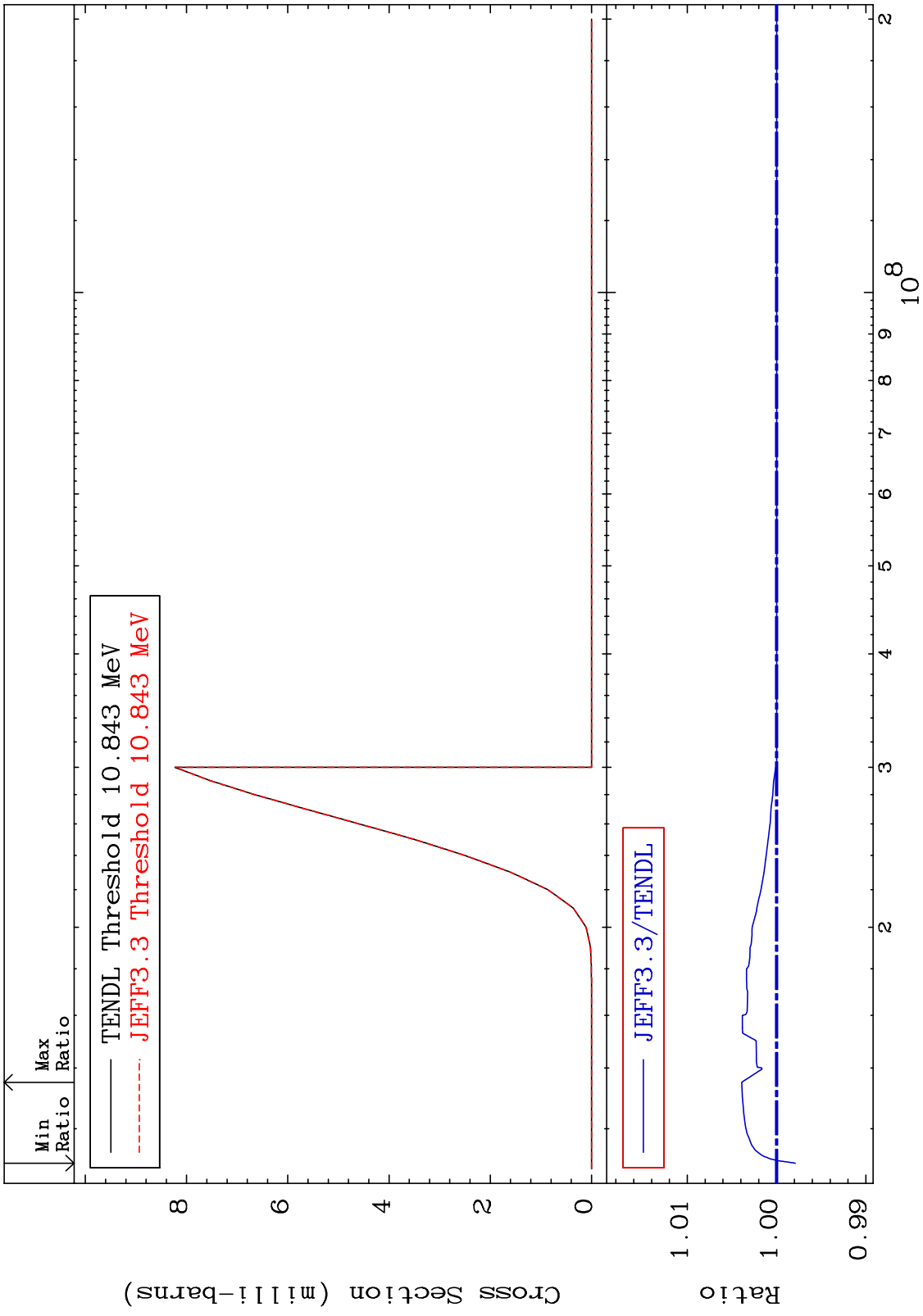
71-Lu-176 Incident Energy (eV) 71-Lu-176

MAT 7128  $(n, n') d$  71-Lu-176  
 Cross Section 0.000 To 0.528 %



11 71-Lu-176

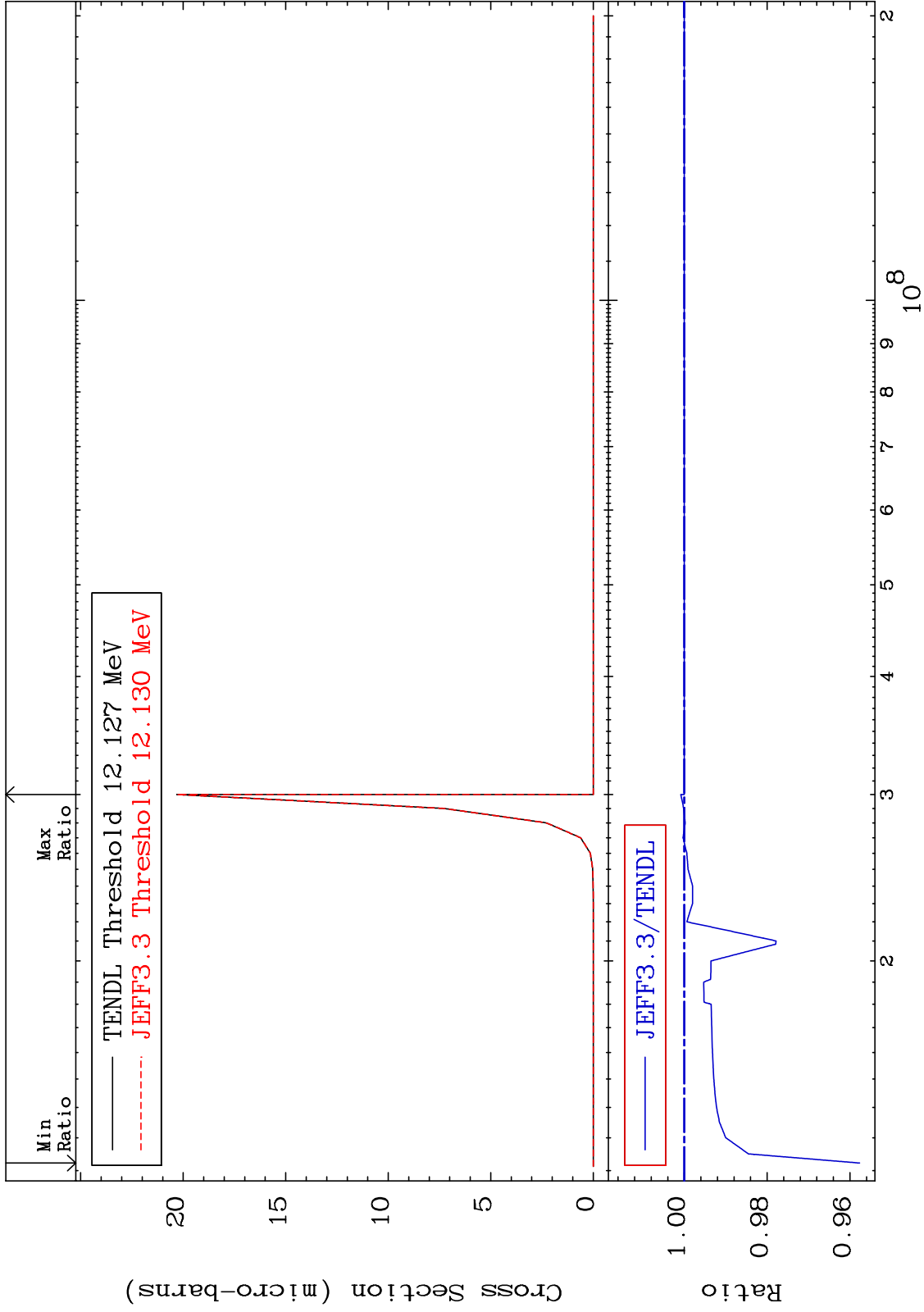
MAT 7128 (n,n') t 71-Lu-176  
Cross Section -0.209 To 0.391 %



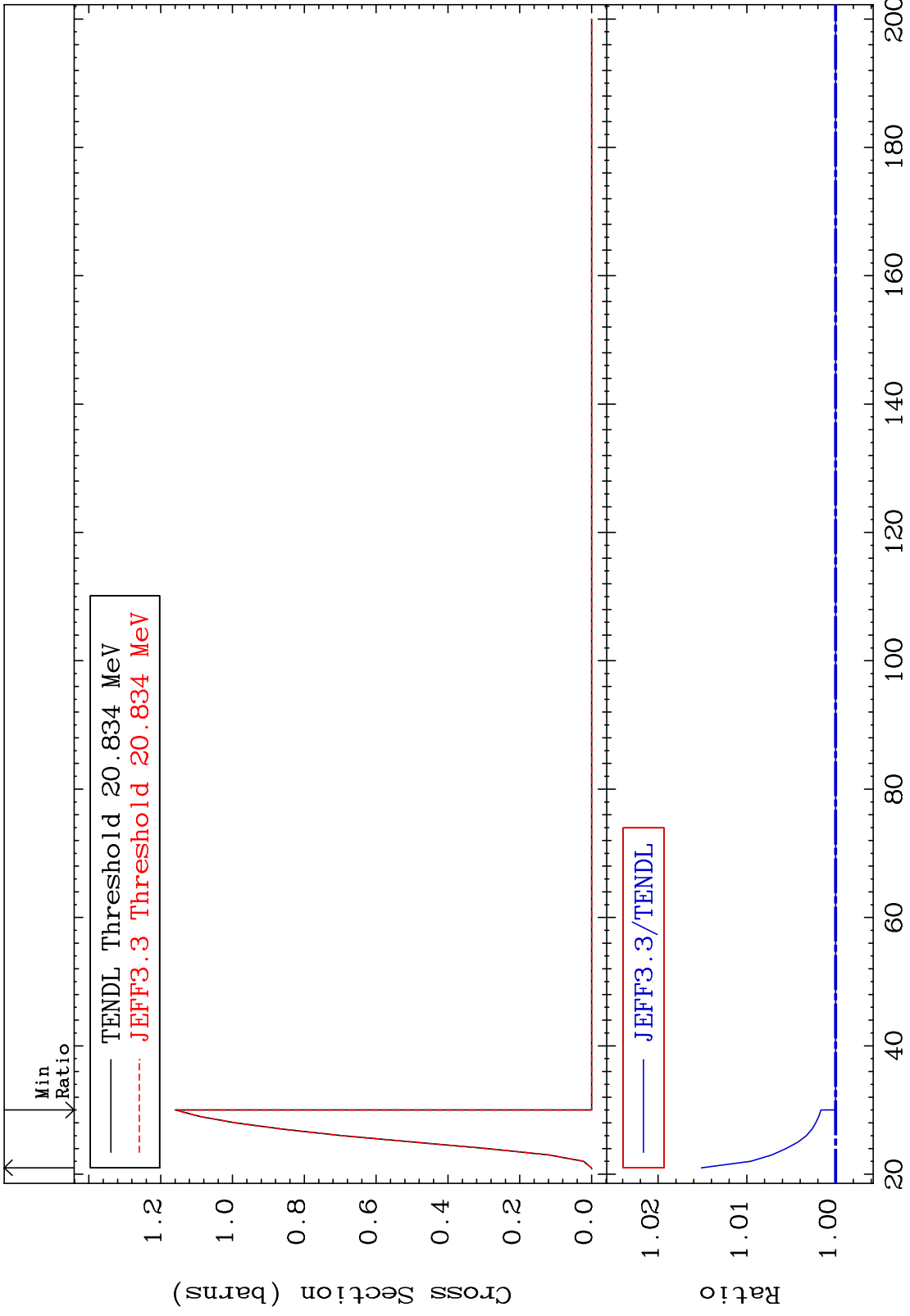
MAT 7128

(n, n') He-3  
Cross Section

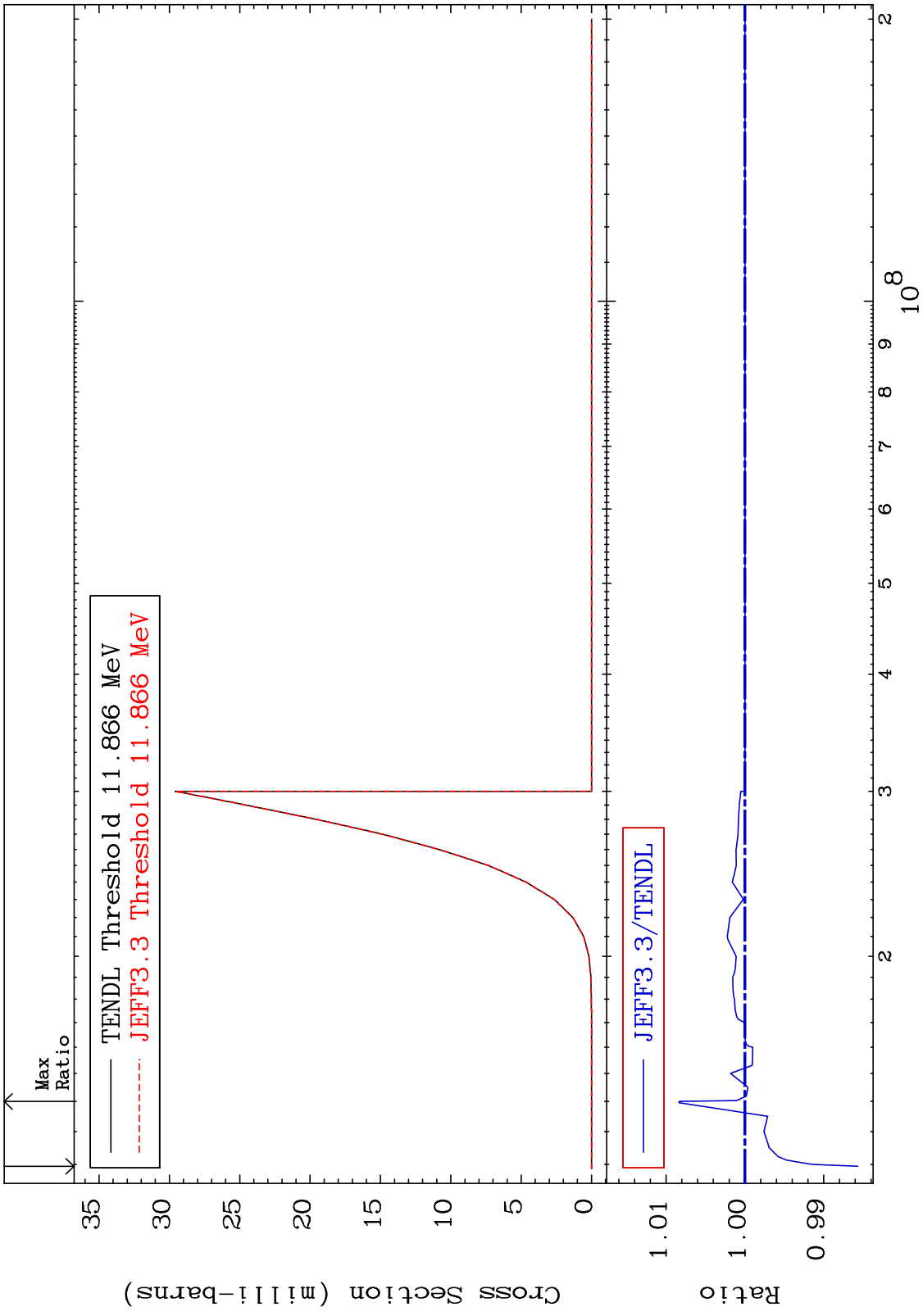
71-Lu-176  
-4.234 To 0.085 %



MAT 7128  $(n,4n)$  Cross Section  $^{71}\text{Lu-176}$  To 1.512 %

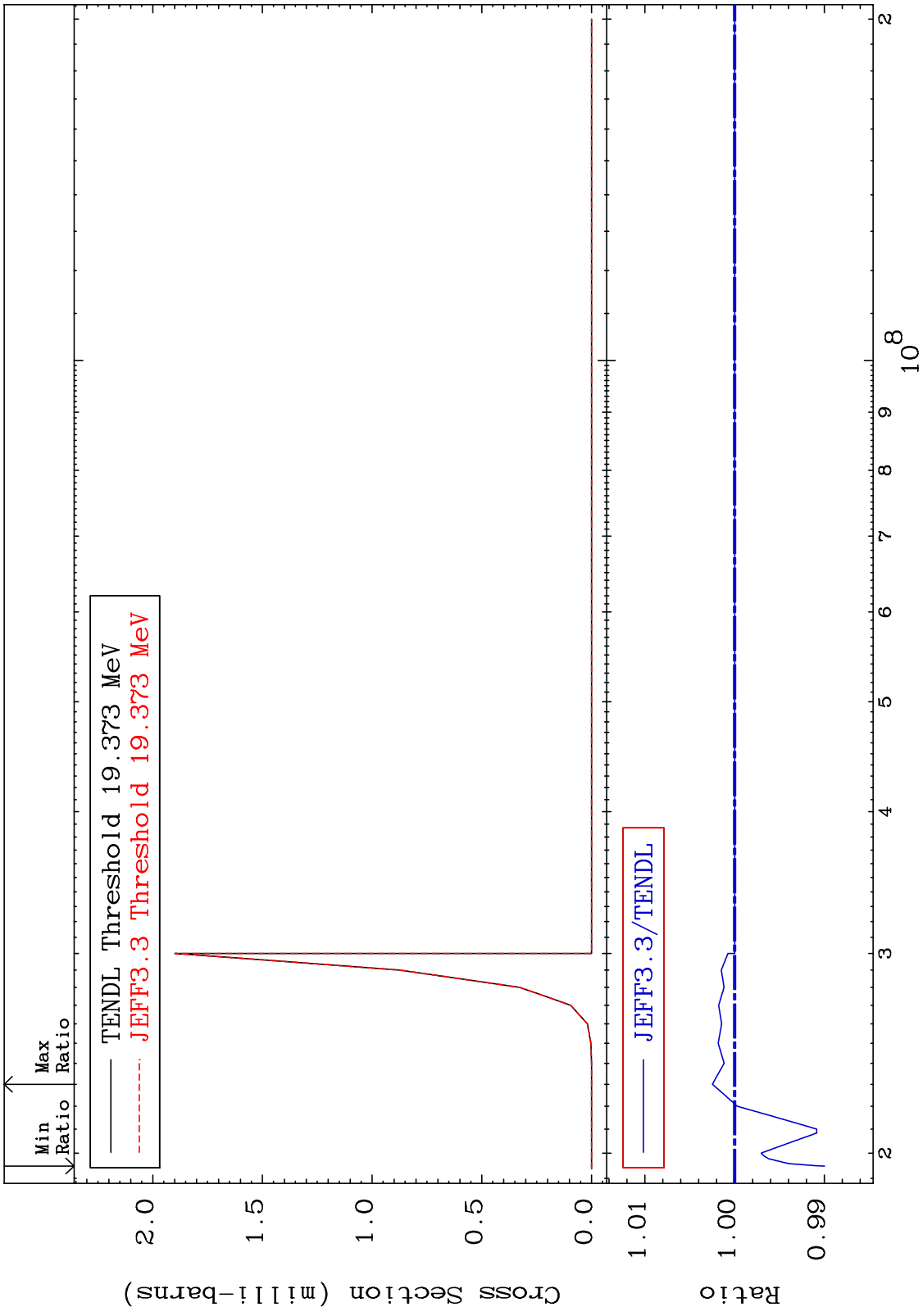


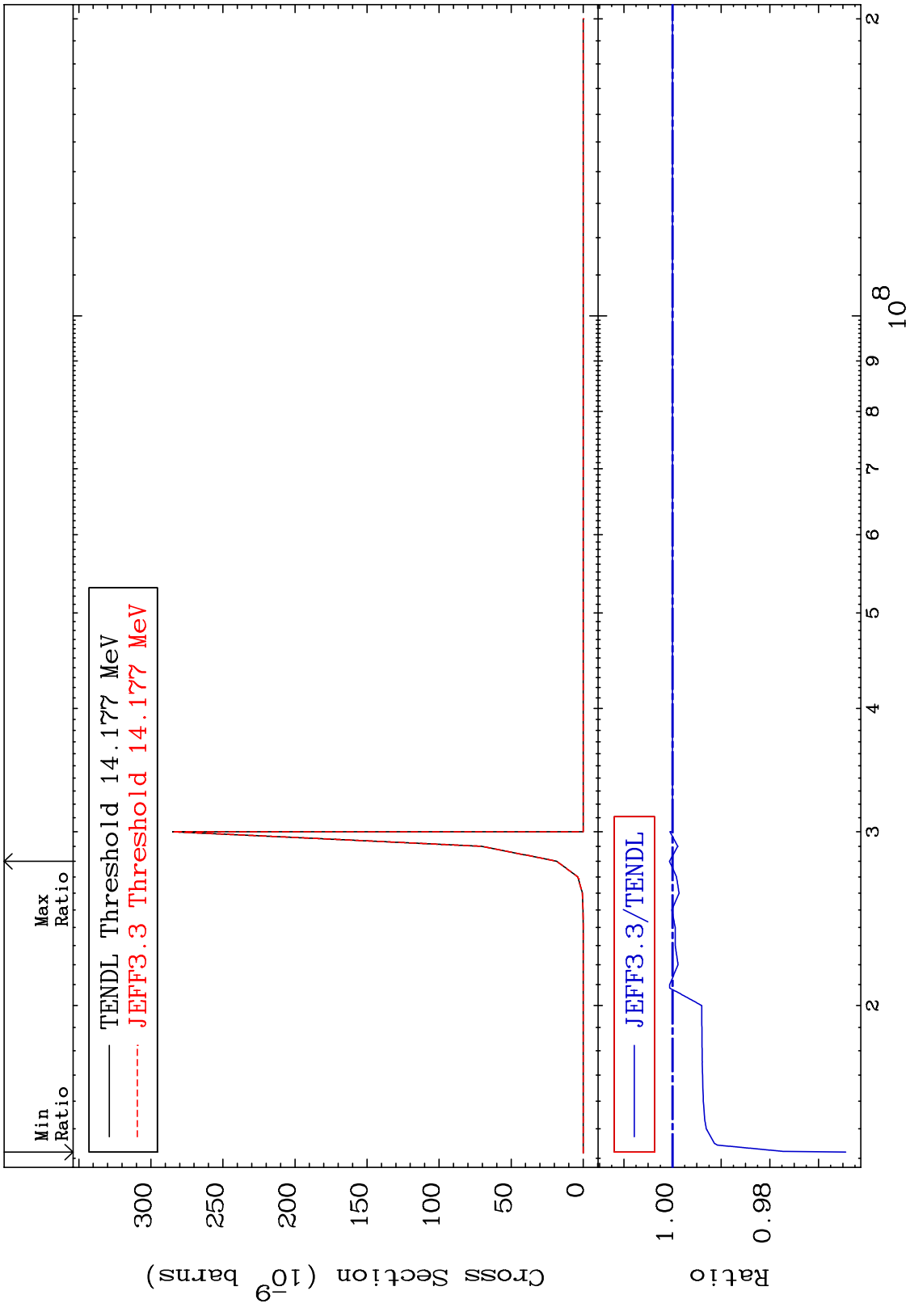
MAT 7128 (n,2n) p 71-Lu-176  
 Cross Section -1.433 To 0.836 %





MAT 7128 (n,3n) p 71-Lu-176  
 Cross Section -1.002 To 0.248 %

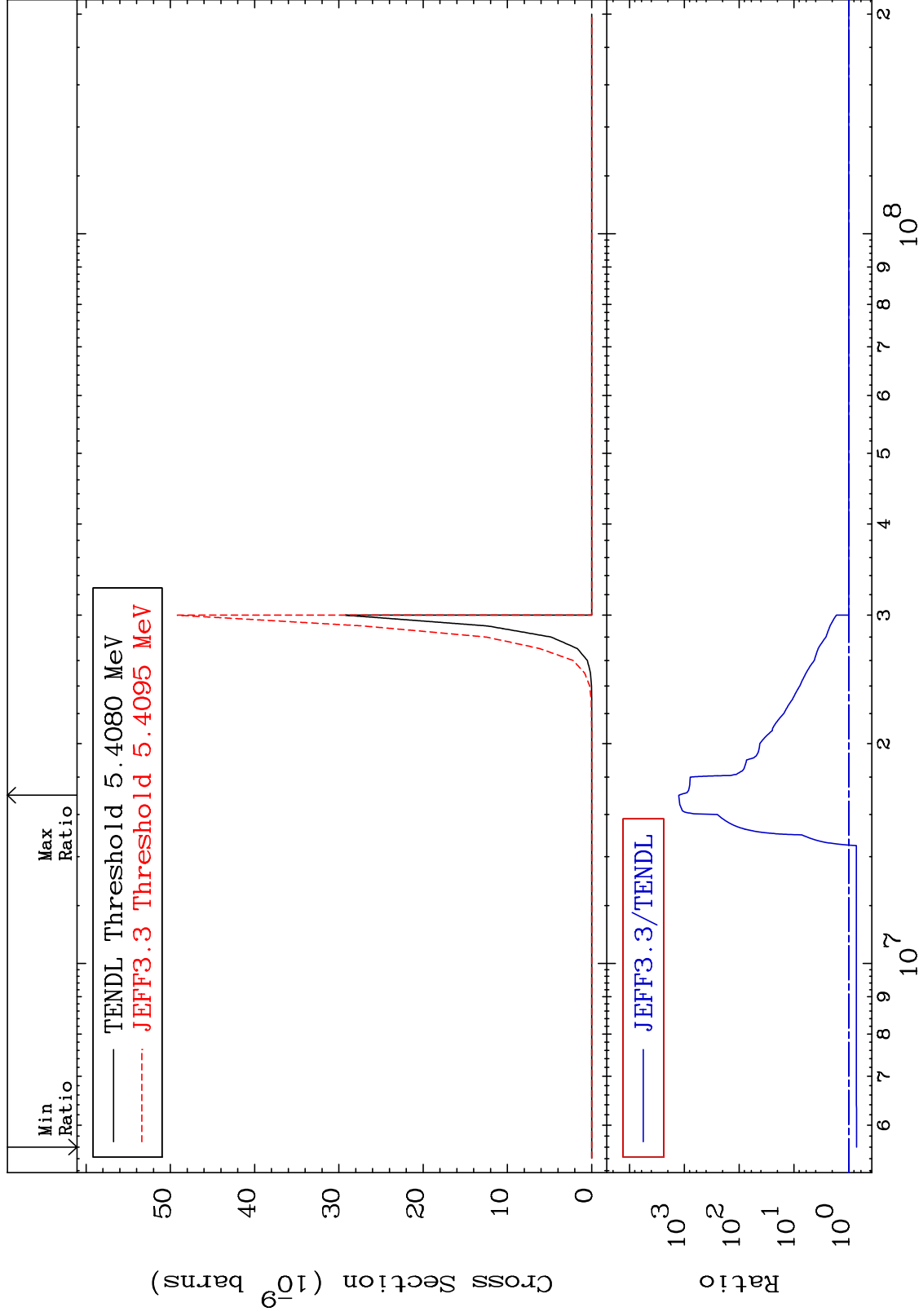




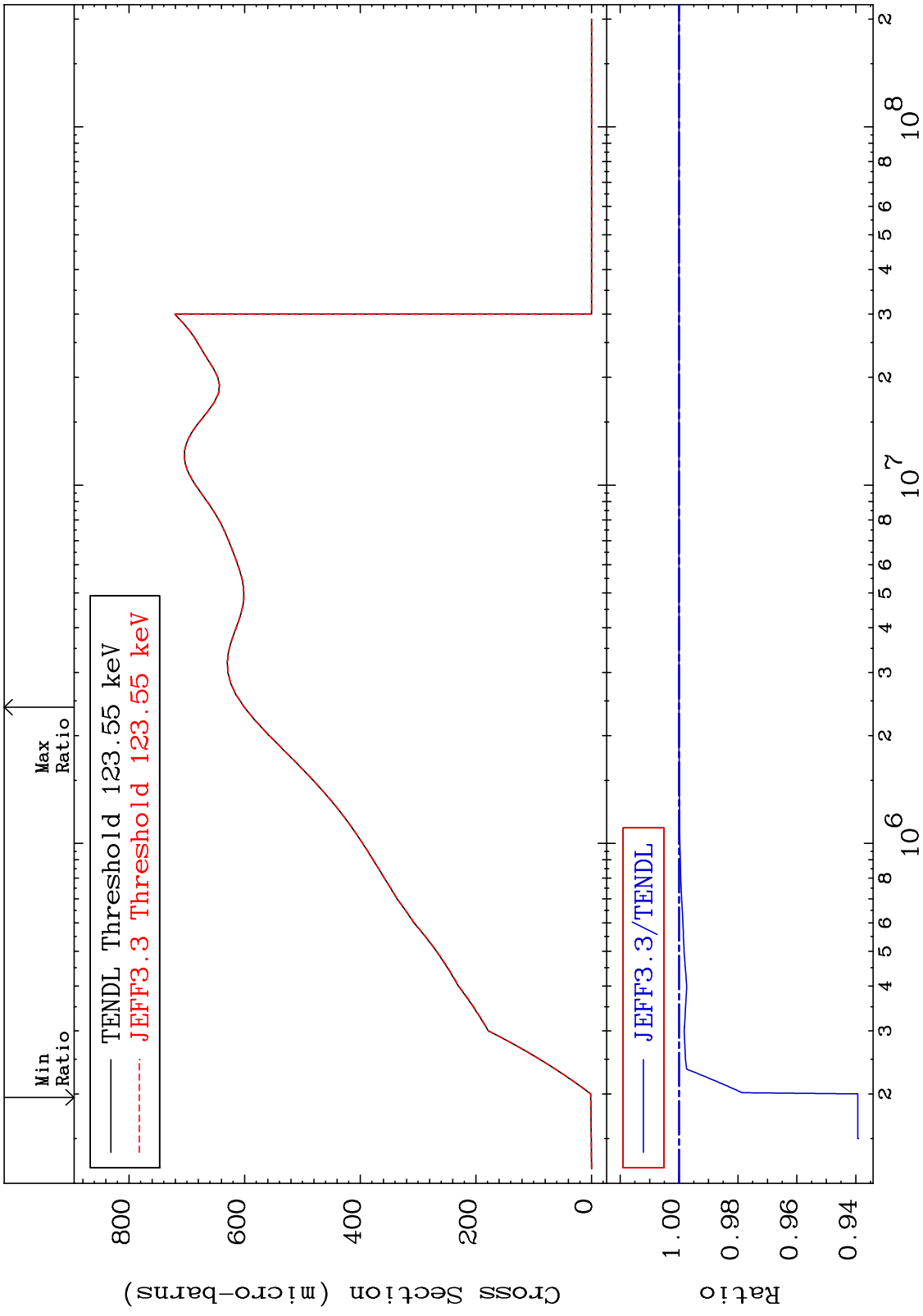
MAT 7128

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

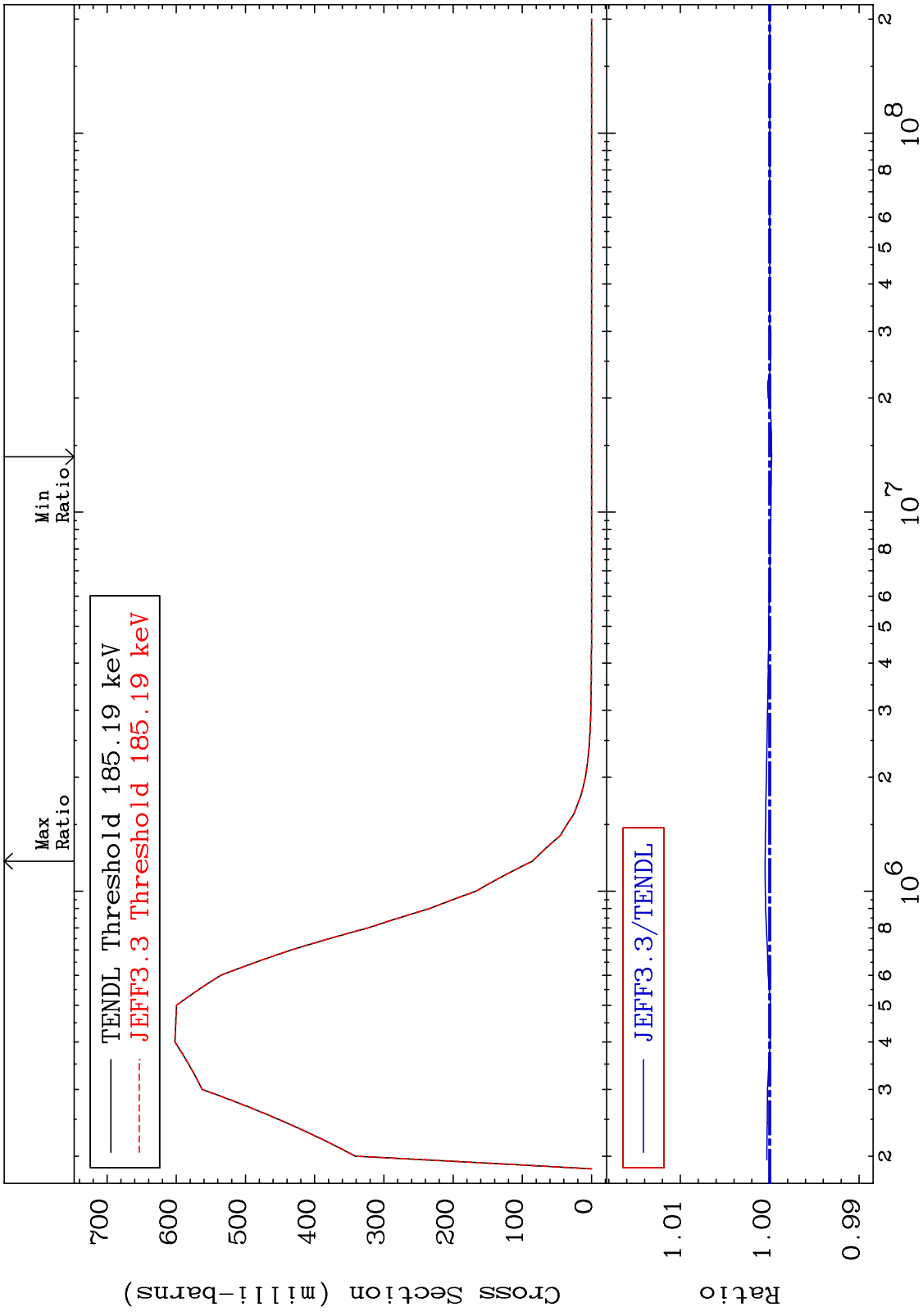
71-Lu-176  
-28.13 To 9999. %



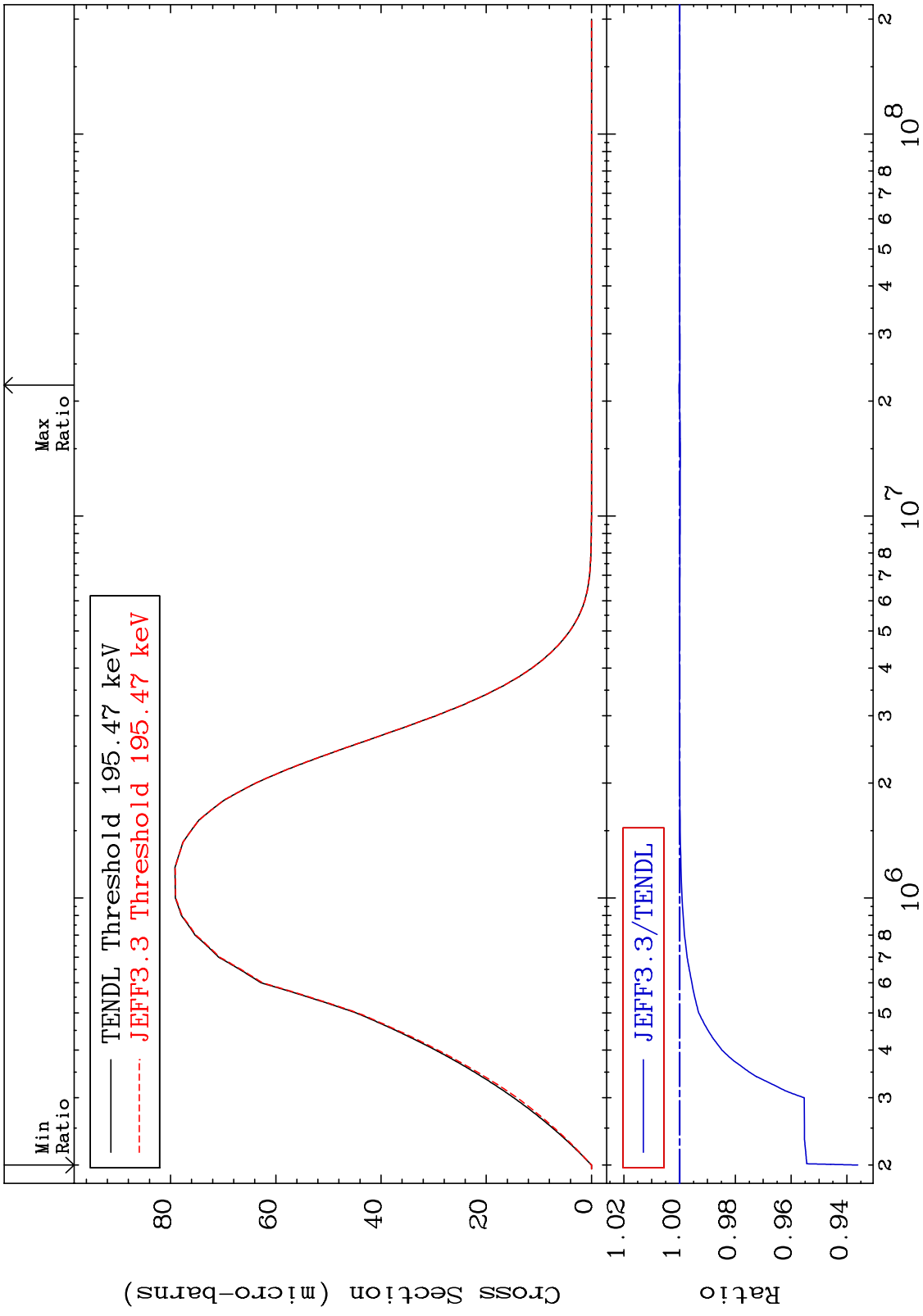
MAT 7128 MT= 51 (n,n') Level Cross Section 71-Lu-176  
 -6.070 To 0.000 %



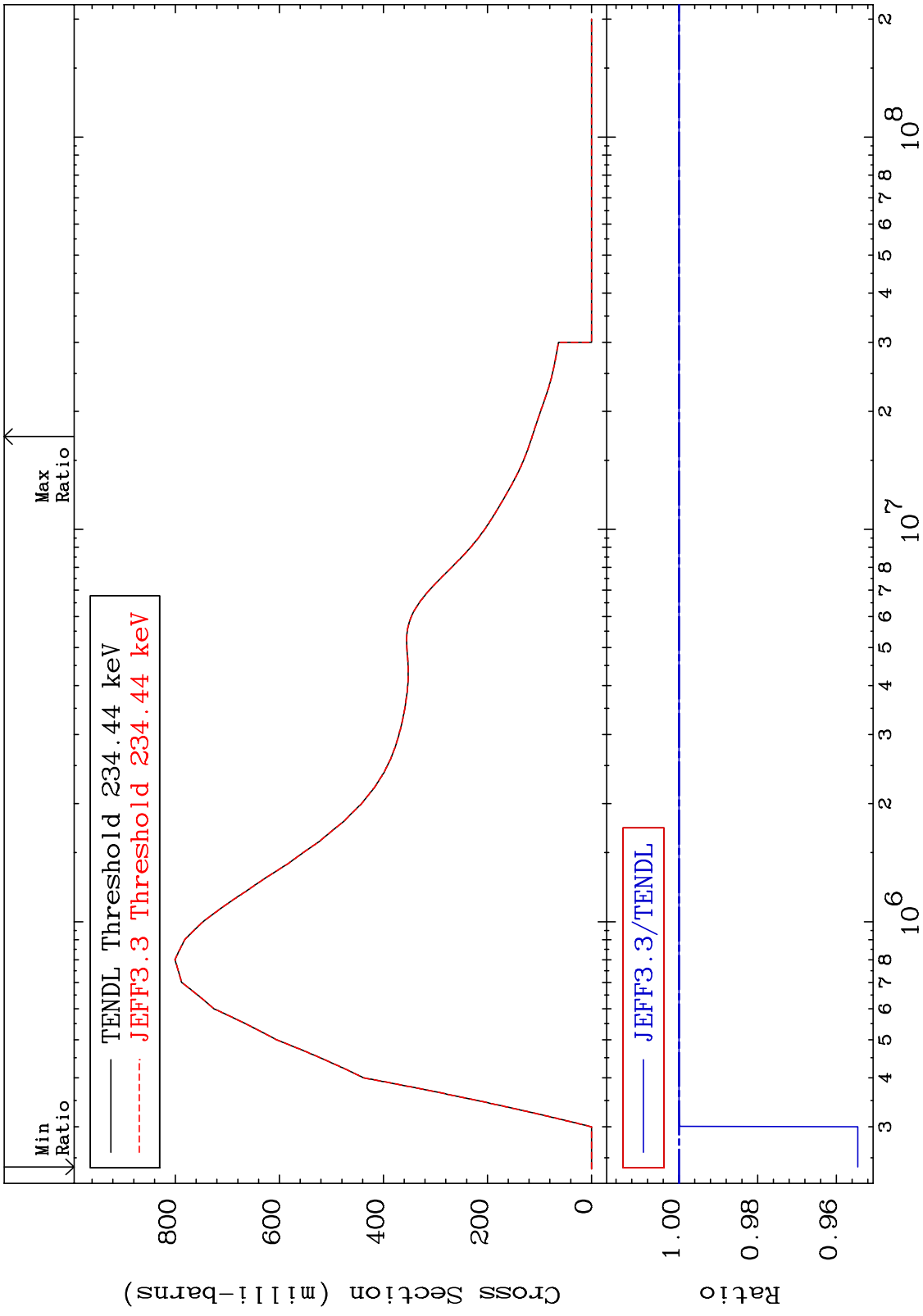
MAT 7128 MT= 52 (n,n') Level Cross Section 71-Lu-176 -0.022 To 0.051 %



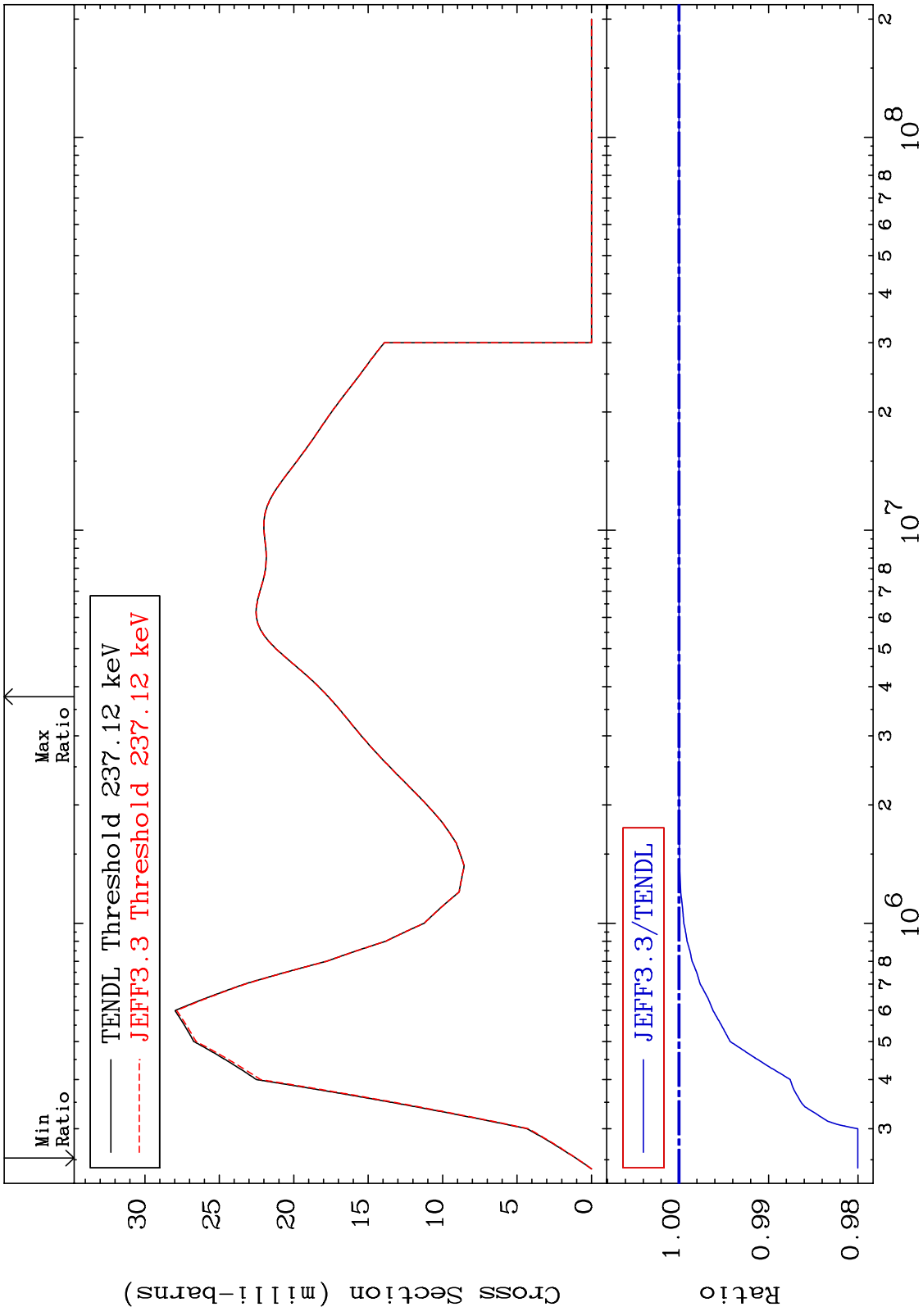
MAT 7128 MT= 53 (n,n') Level Cross Section 71-Lu-176 -6.392 To 0.019 %



MAT 7128 MT= 54 (n,n') Level Cross Section 71-Lu-176  
 -4.546 To 0.000 %

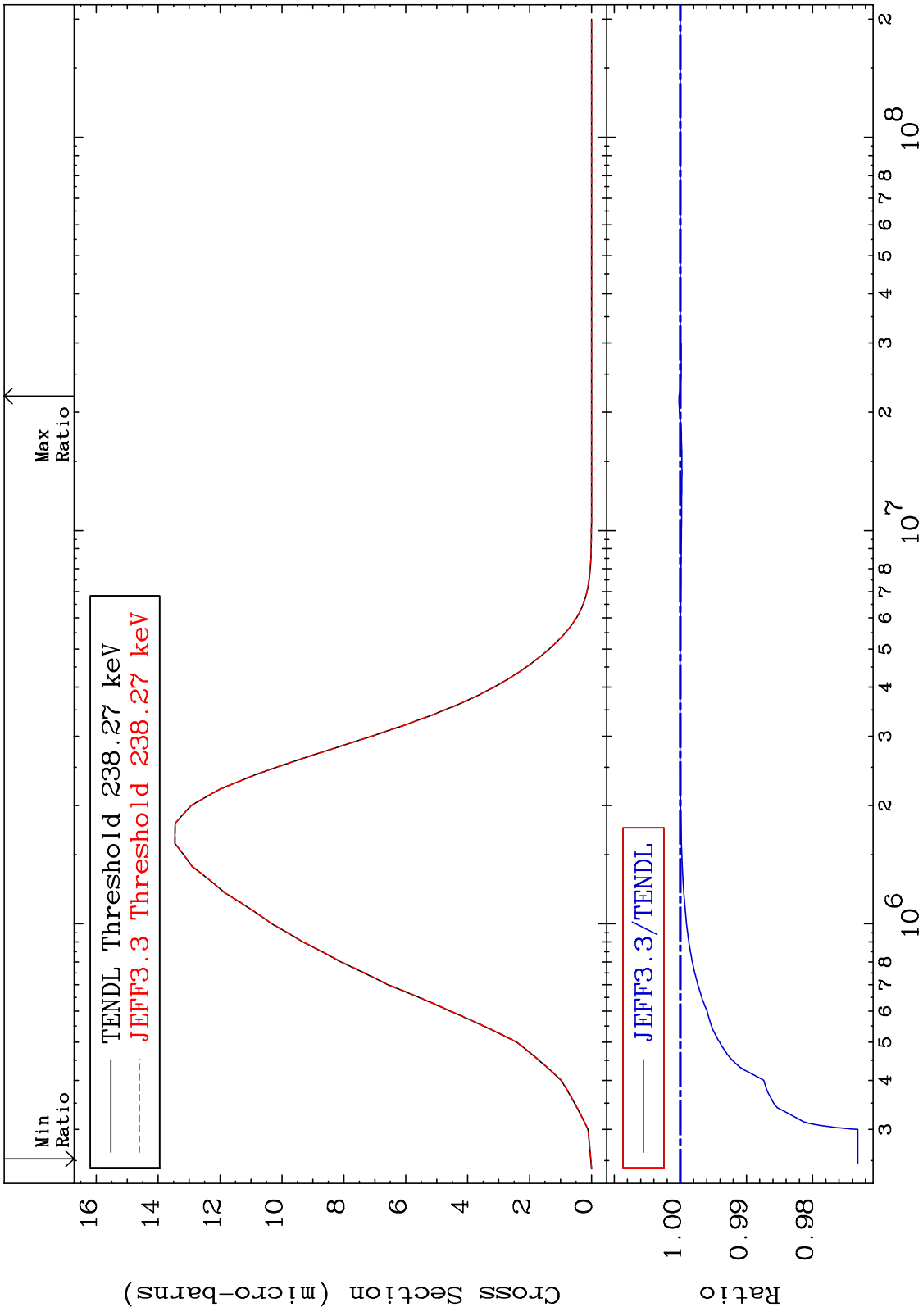


MAT 7128 MT= 55 (n,n') Level Cross Section 71-Lu-176  
 -1.998 To 0.000 %

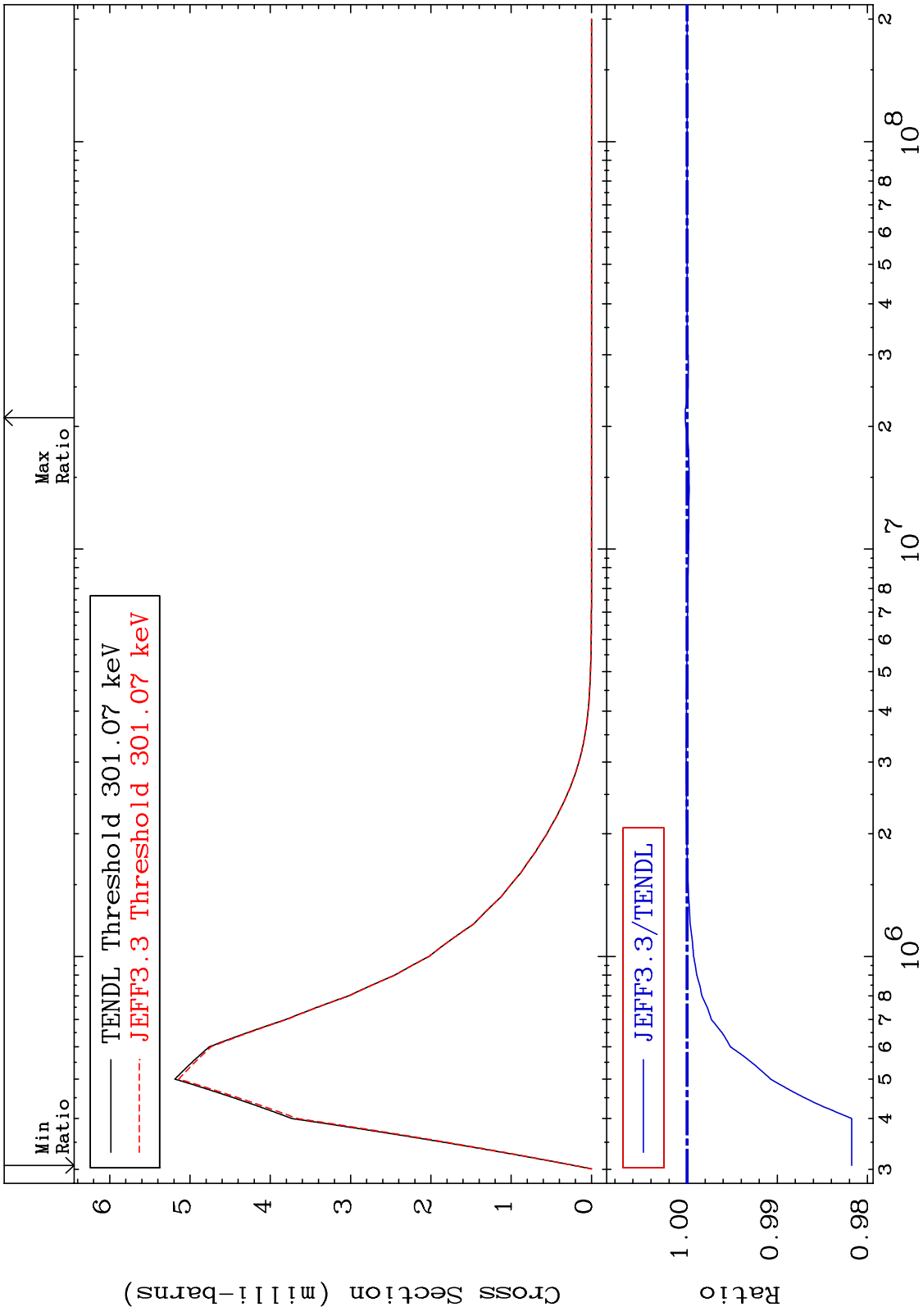




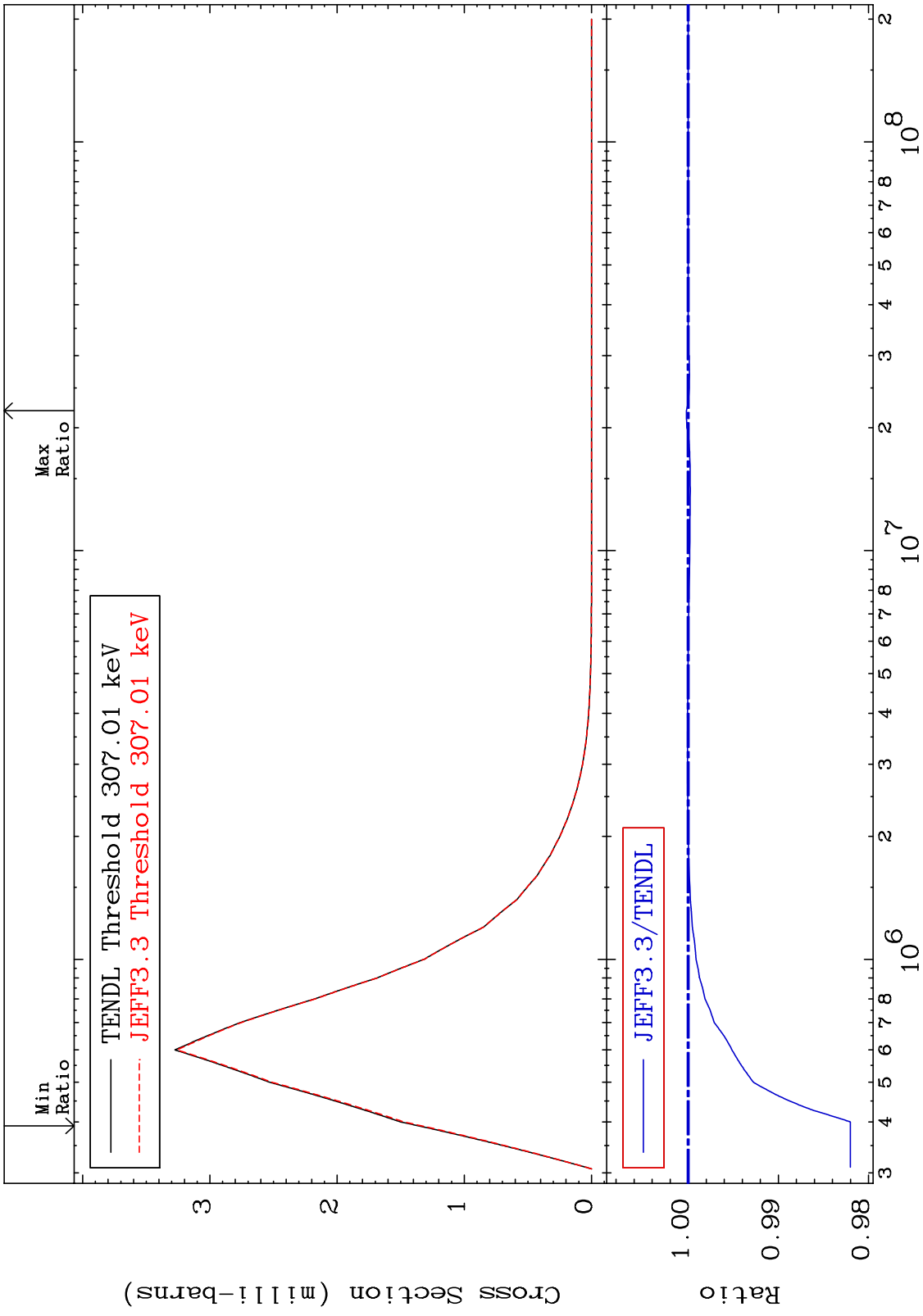
MAT 7128 MT= 56 (n,n') Level Cross Section 71-Lu-176 -2.685 To 0.019 %



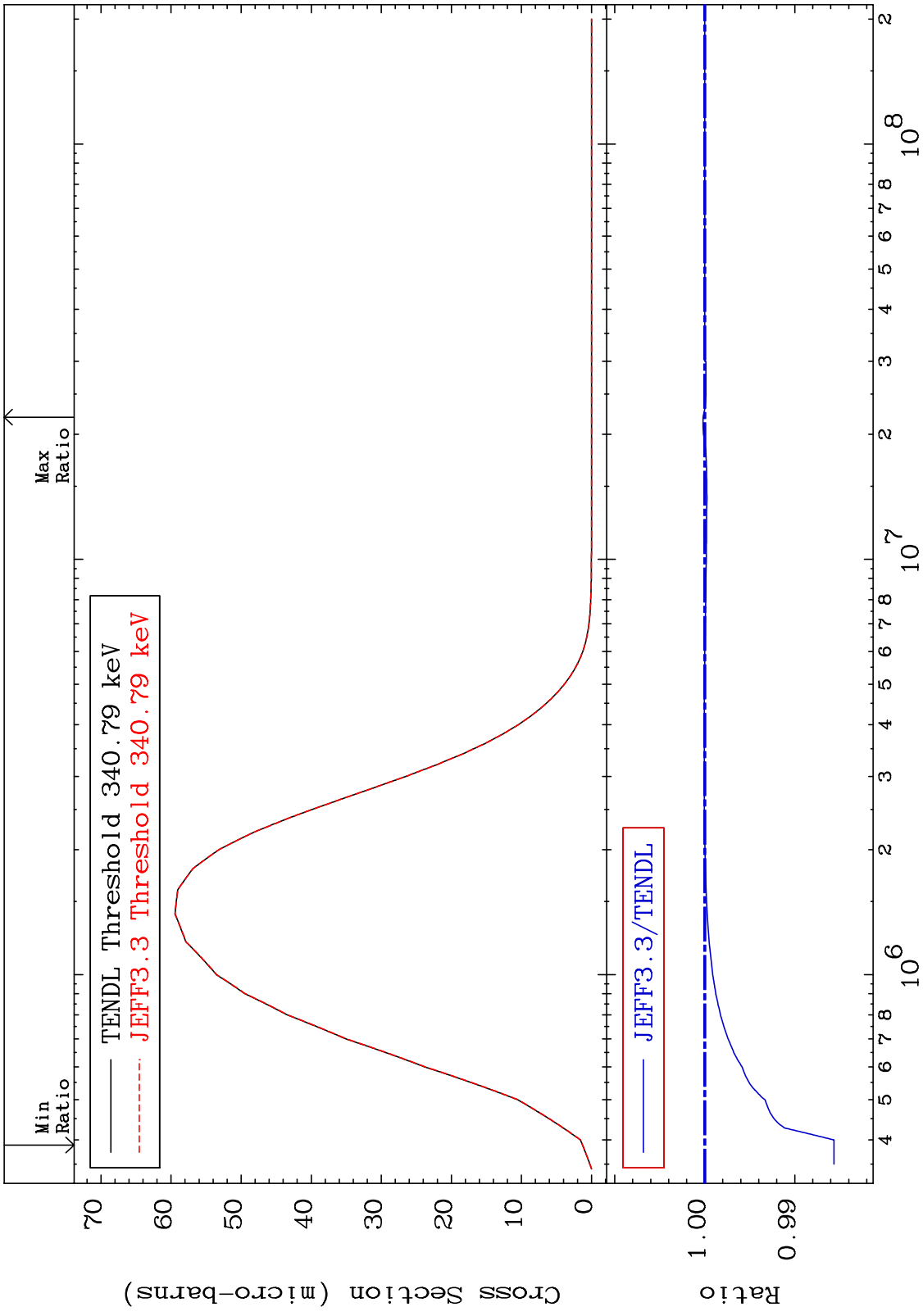
MAT 7128 MT= 57 (n,n') Level Cross Section 71-Lu-176 -1.824 To 0.020 %



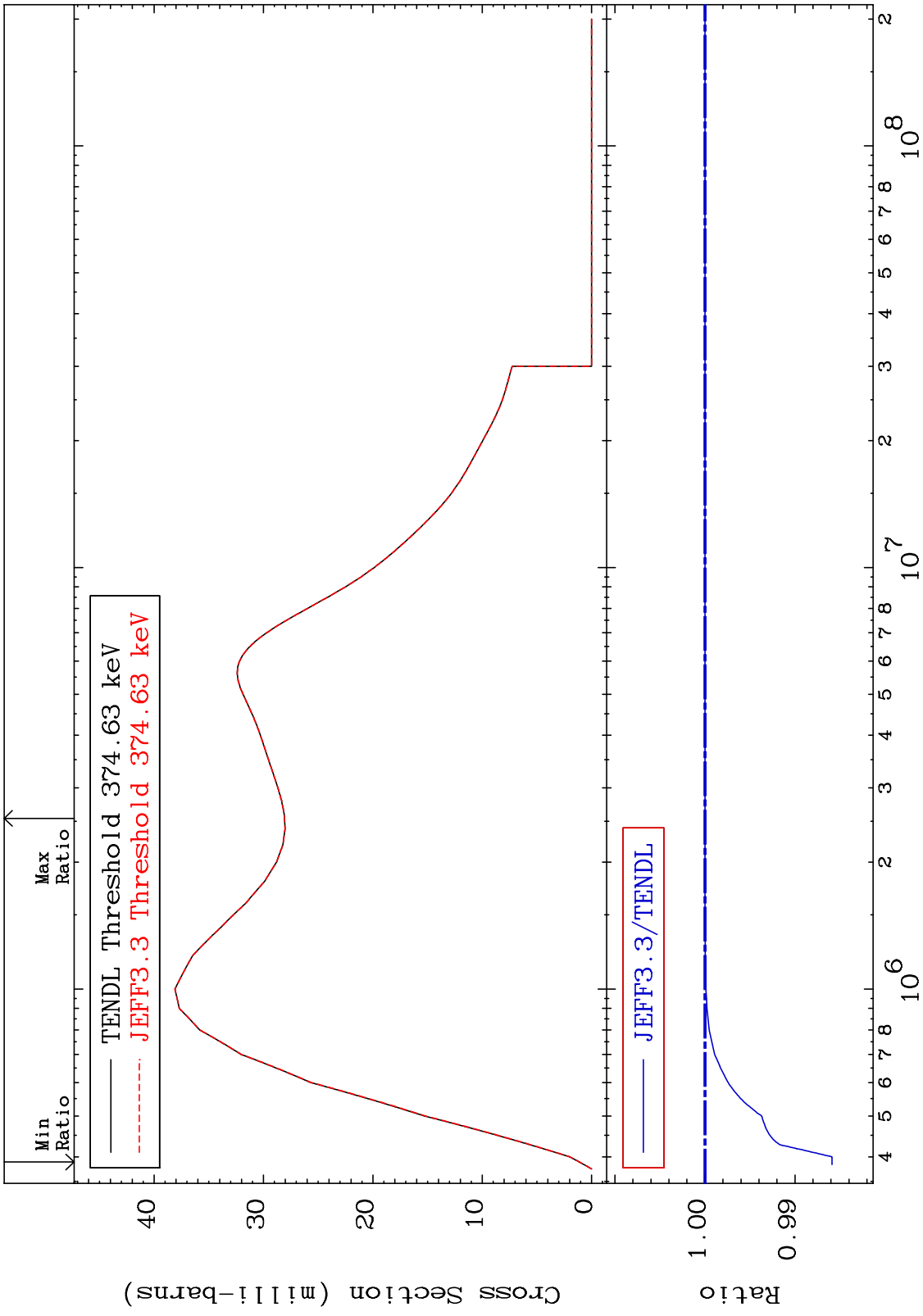
MAT 7128 MT= 58 (n,n') Level Cross Section 71-Lu-176  
 -1.799 To 0.020 %



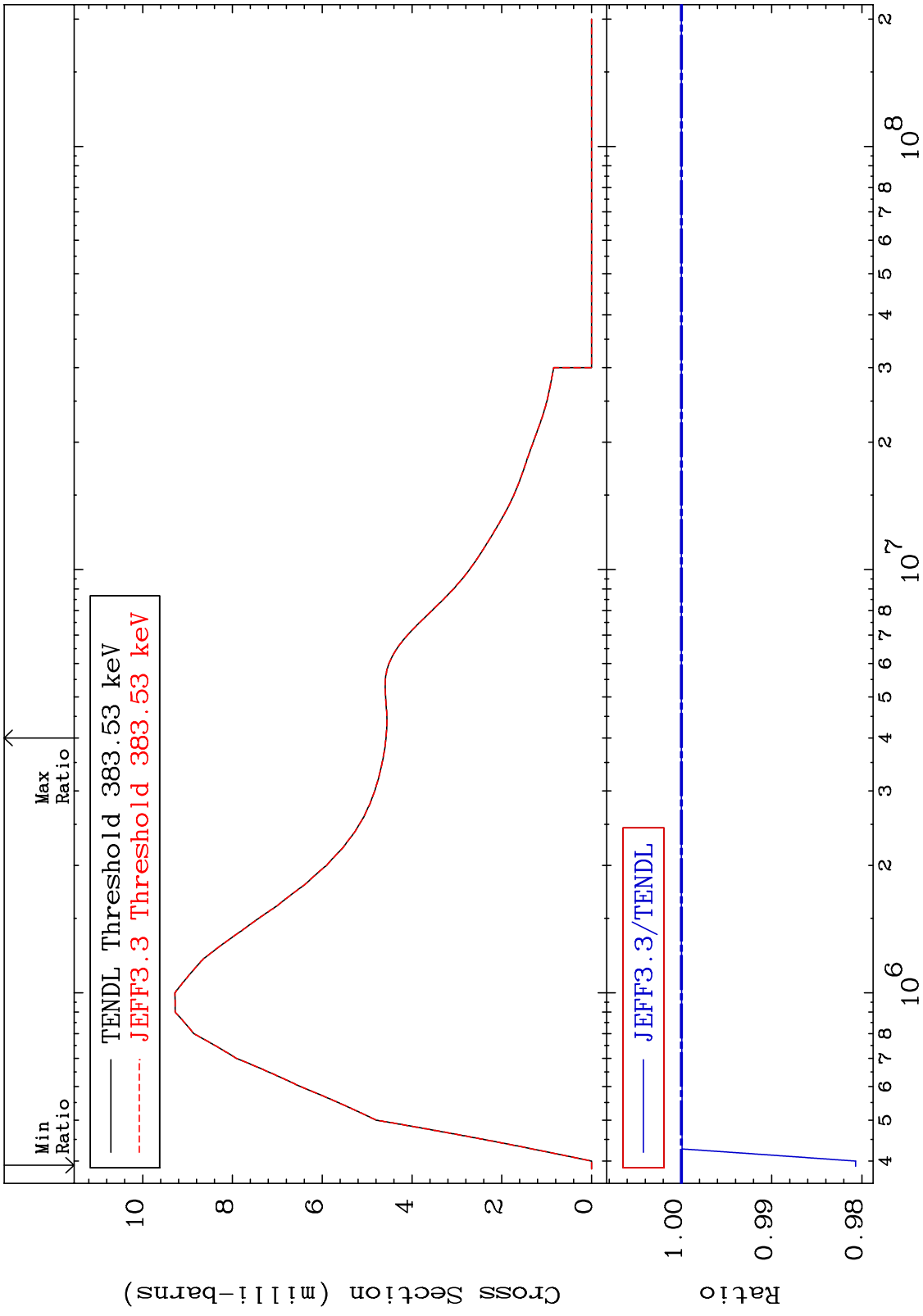
MAT 7128 MT= 59 (n,n') Level Cross Section 71-Lu-176 -1.435 To 0.019 %



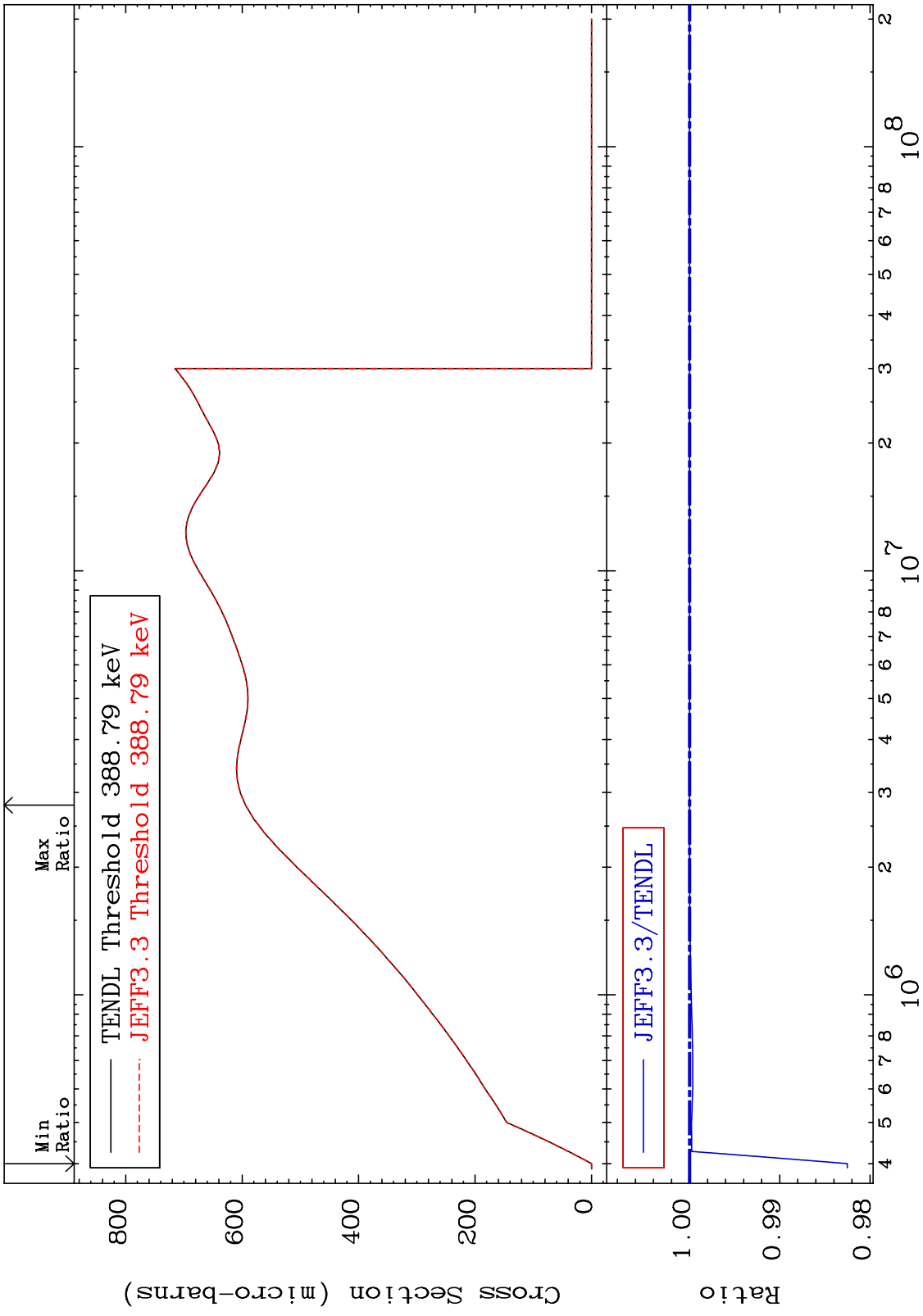
MAT 7128 MT= 60 (n,n') Level Cross Section 71-Lu-176 -1.411 To 0.000 %



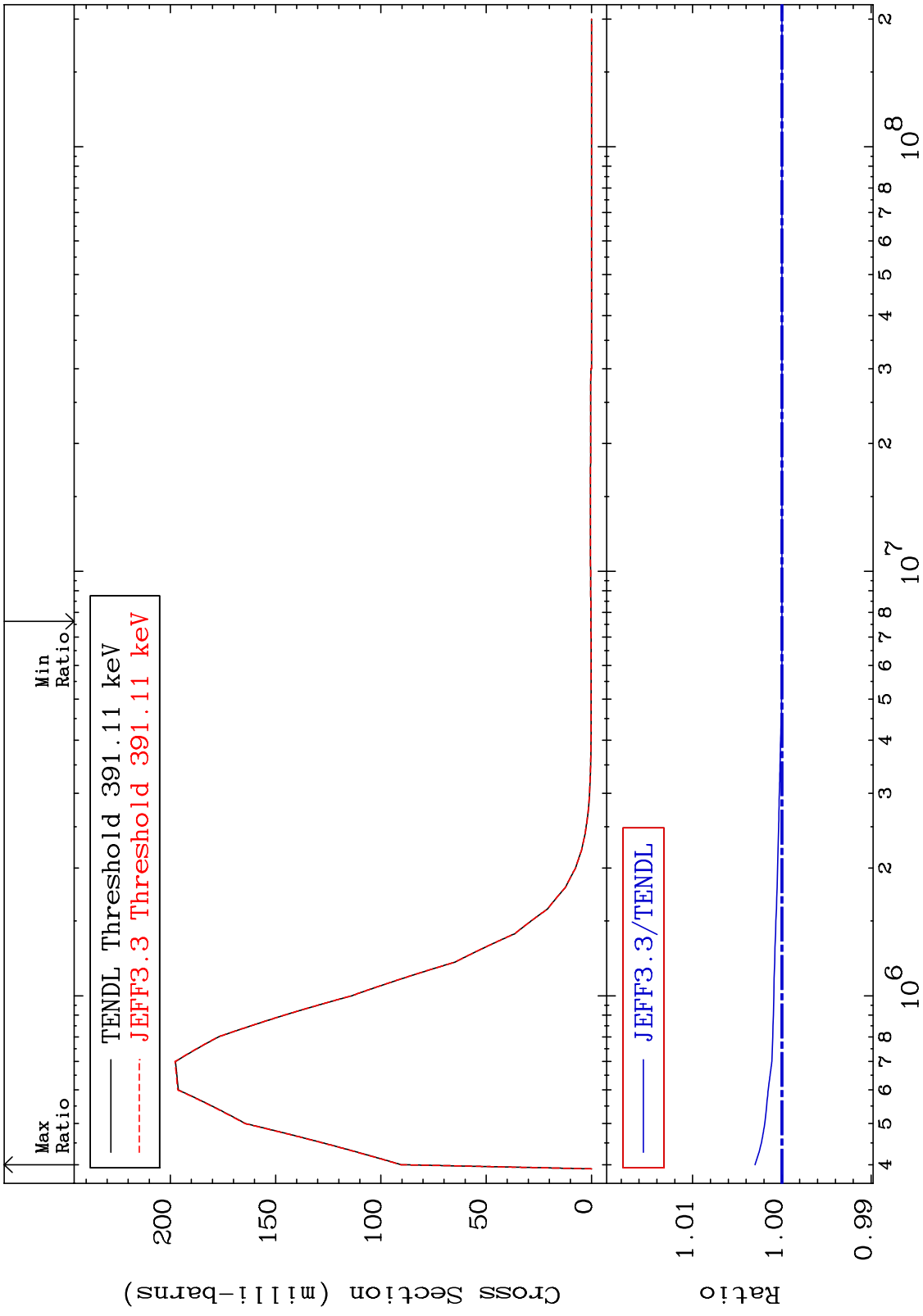
MAT 7128 MT= 61 (n,n') Level Cross Section 71-Lu-176  
 -1.929 To 0.000 %



MAT 7128 MT= 62 (n,n') Level Cross Section 71-Lu-176 -1.750 To 0.000 %

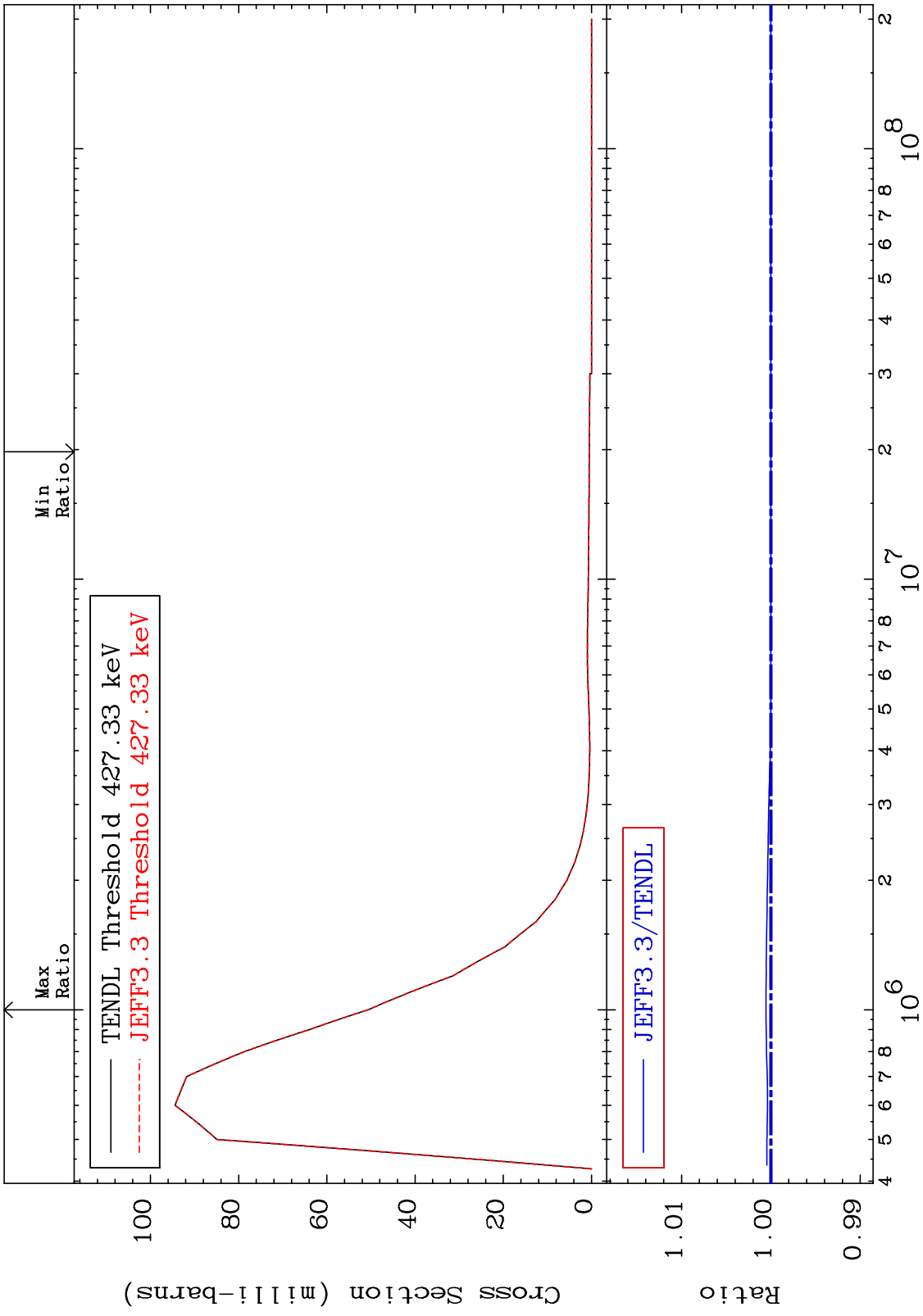


MAT 7128 MT= 63 (n,n') Level Cross Section 71-Lu-176 To 0.301 %

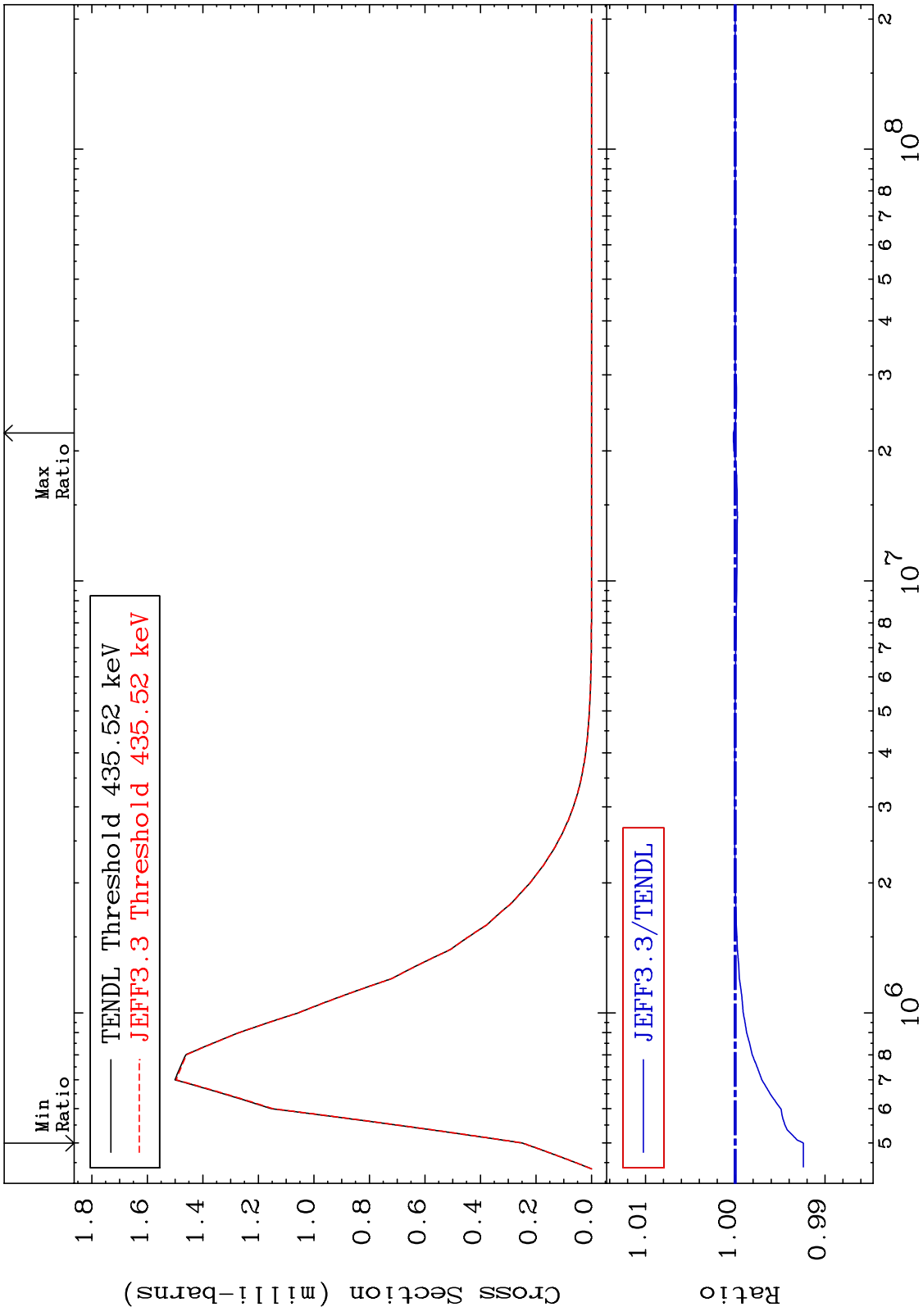




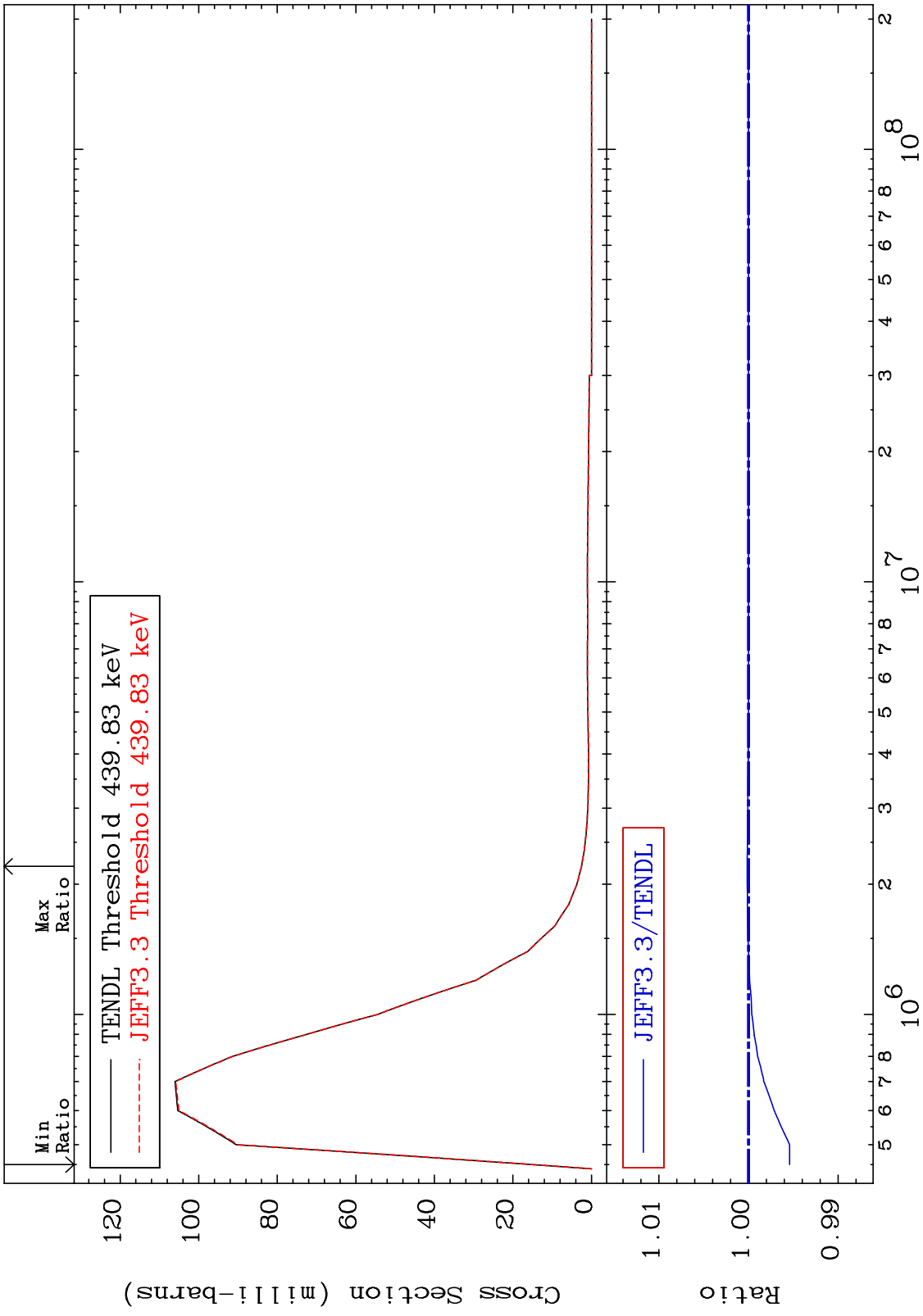
MAT 7128 MT= 64 (n,n') Level Cross Section 71-Lu-176 To 0.055 %



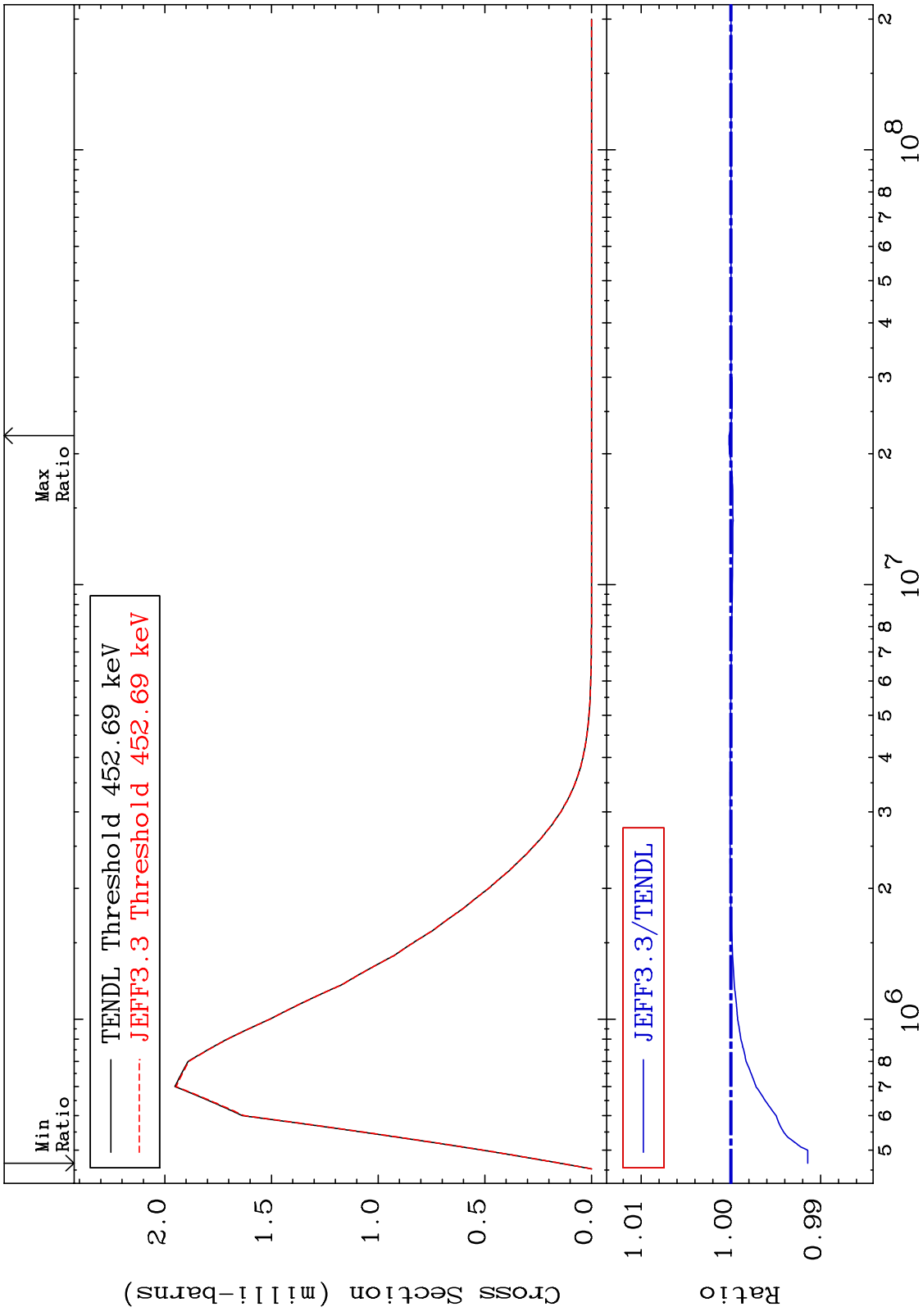
MAT 7128 MT= 65 (n,n') Level Cross Section 71-Lu-176 -0.760 To 0.020 %



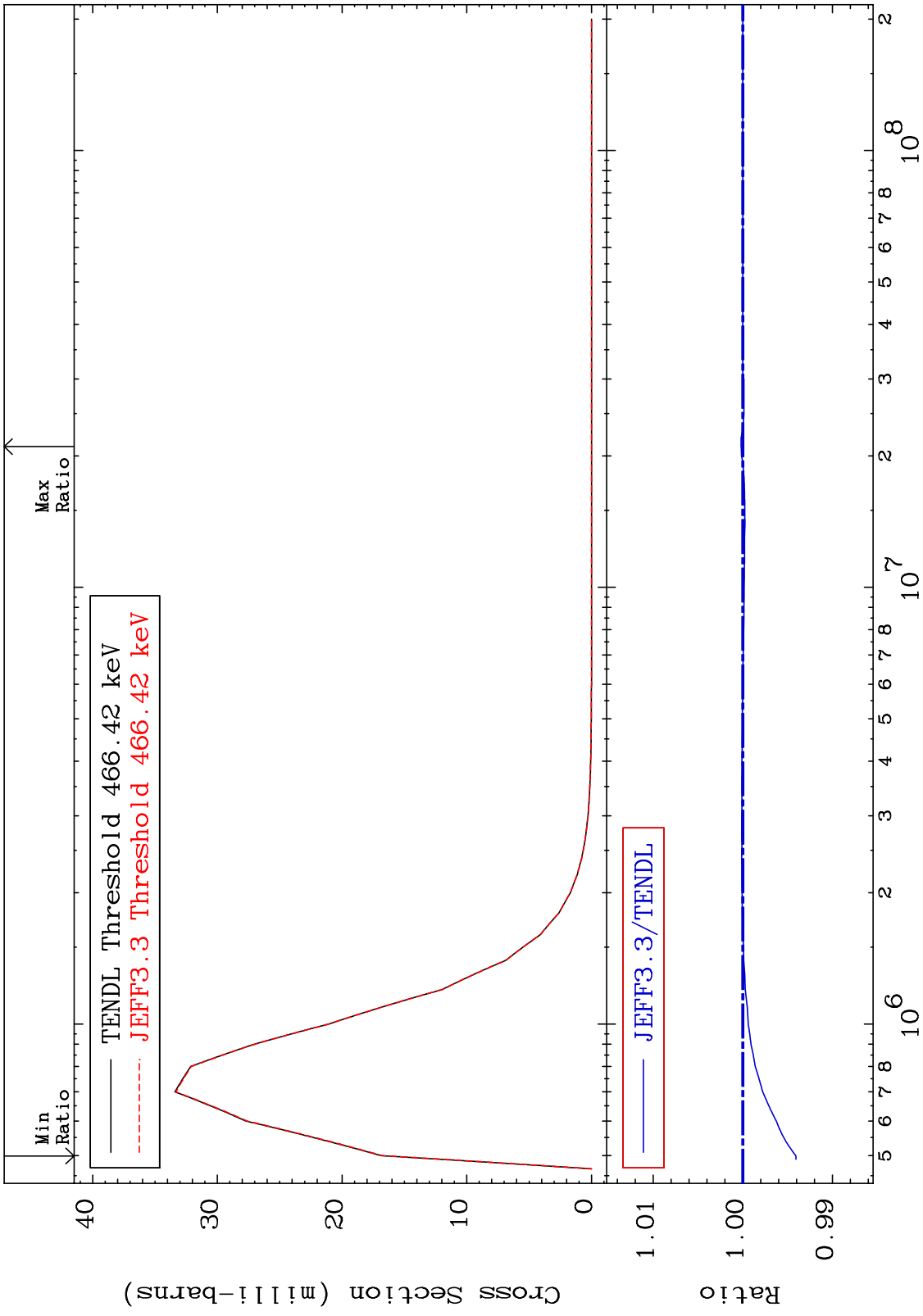
MAT 7128 MT= 66 (n,n') Level Cross Section 71-Lu-176 -0.460 To 0.013 %



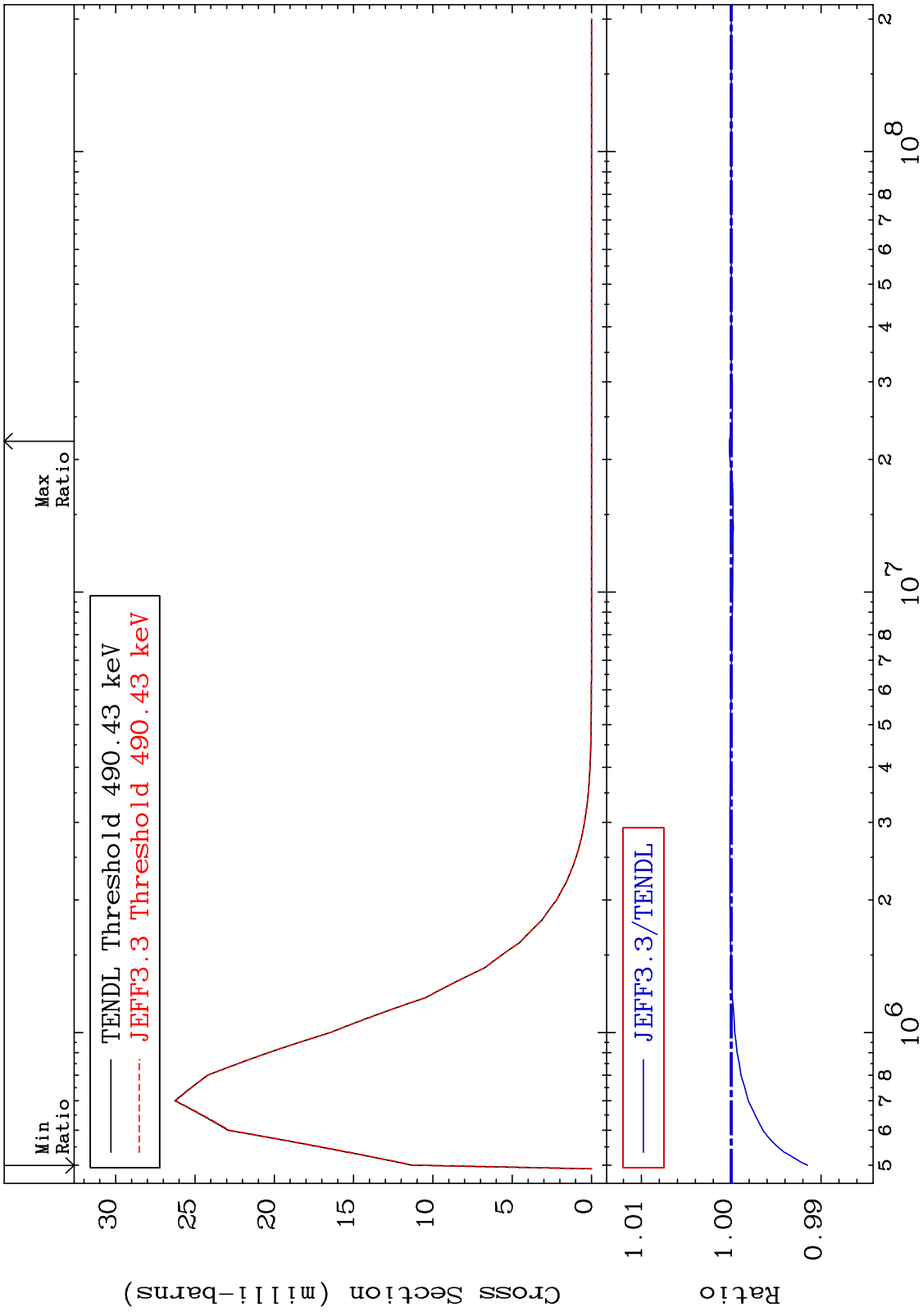
MAT 7128 MT= 67 (n,n') Level Cross Section 71-Lu-176 -0.856 To 0.020 %



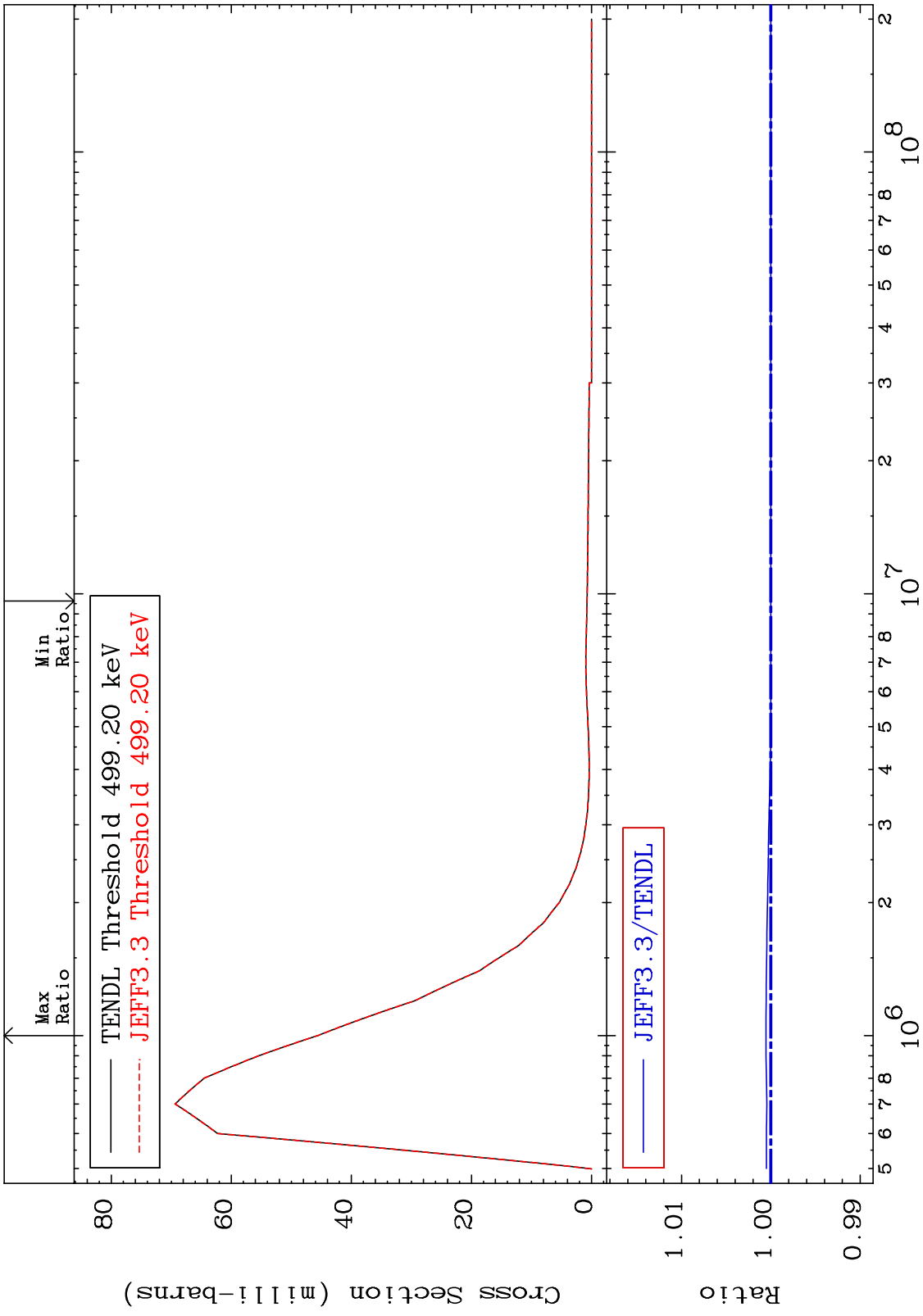
MAT 7128 MT= 68 (n,n') Level Cross Section 71-Lu-176 -0.591 To 0.020 %



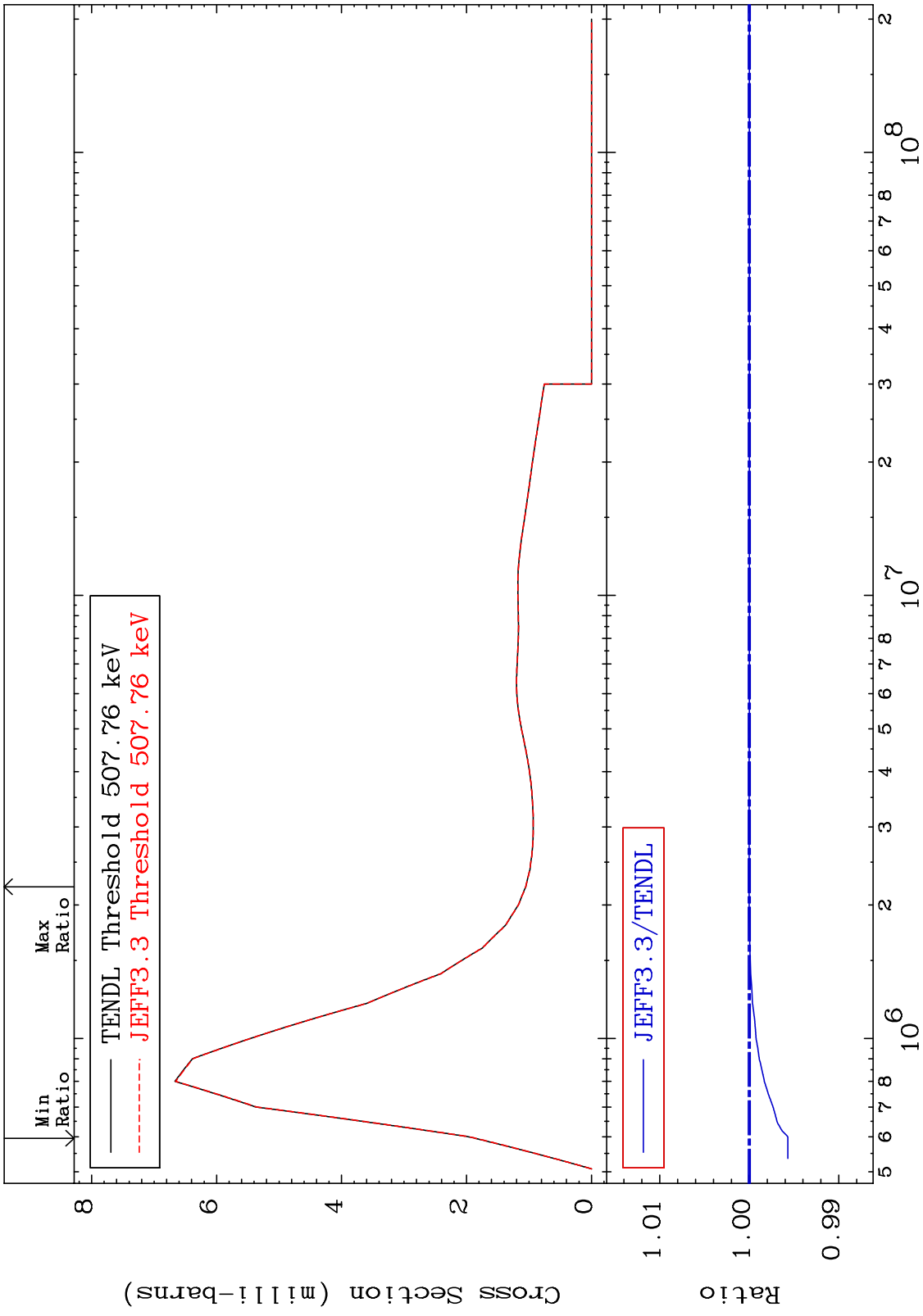
MAT 7128 MT= 69 (n,n') Level Cross Section 71-Lu-176 -0.850 To 0.020 %



MAT 7128 MT= 70 (n,n') Level Cross Section 71-Lu-176 To 0.055 %

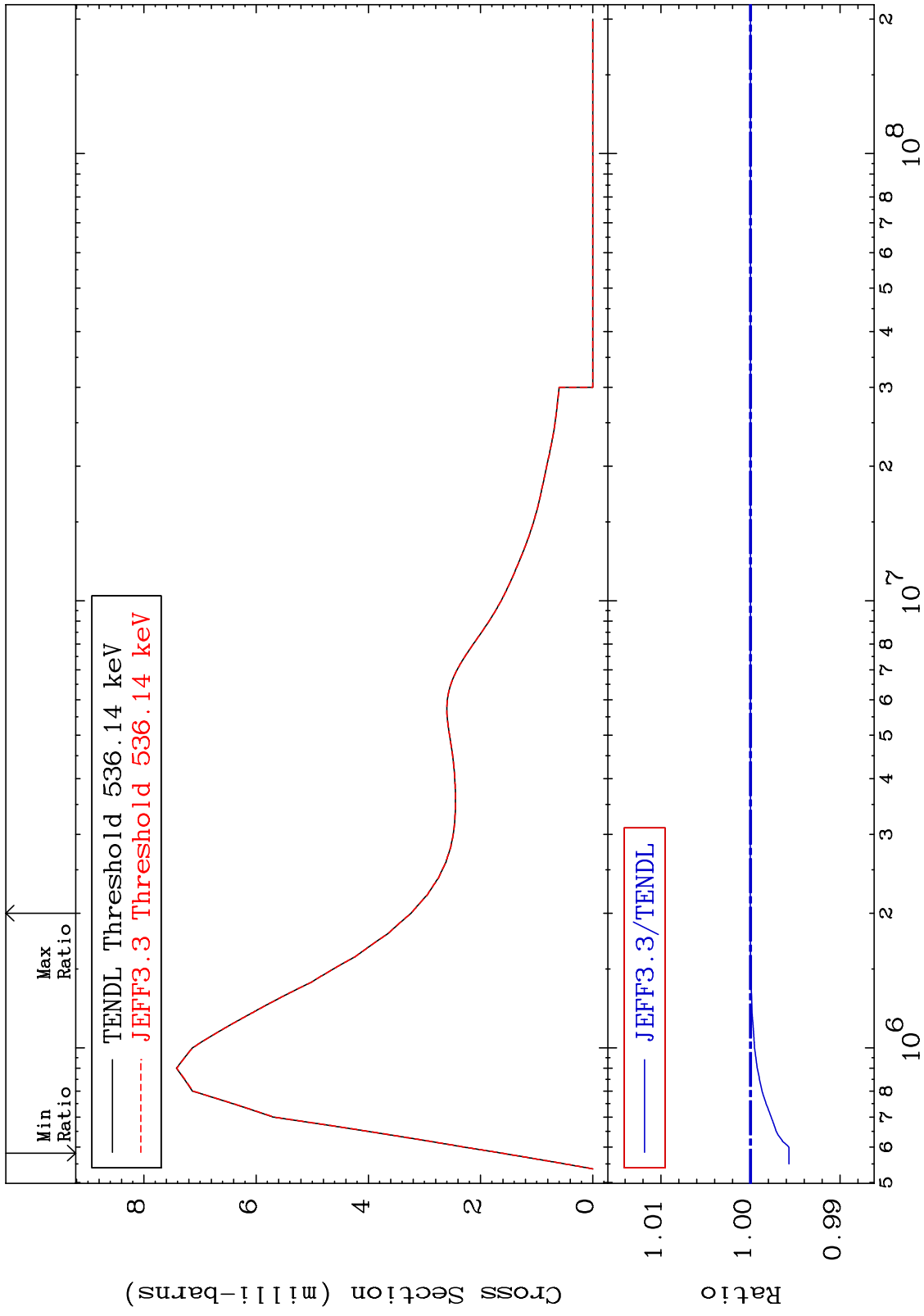


MAT 7128 MT= 71 (n,n') Level Cross Section 71-Lu-176 -0.431 To 0.003 %



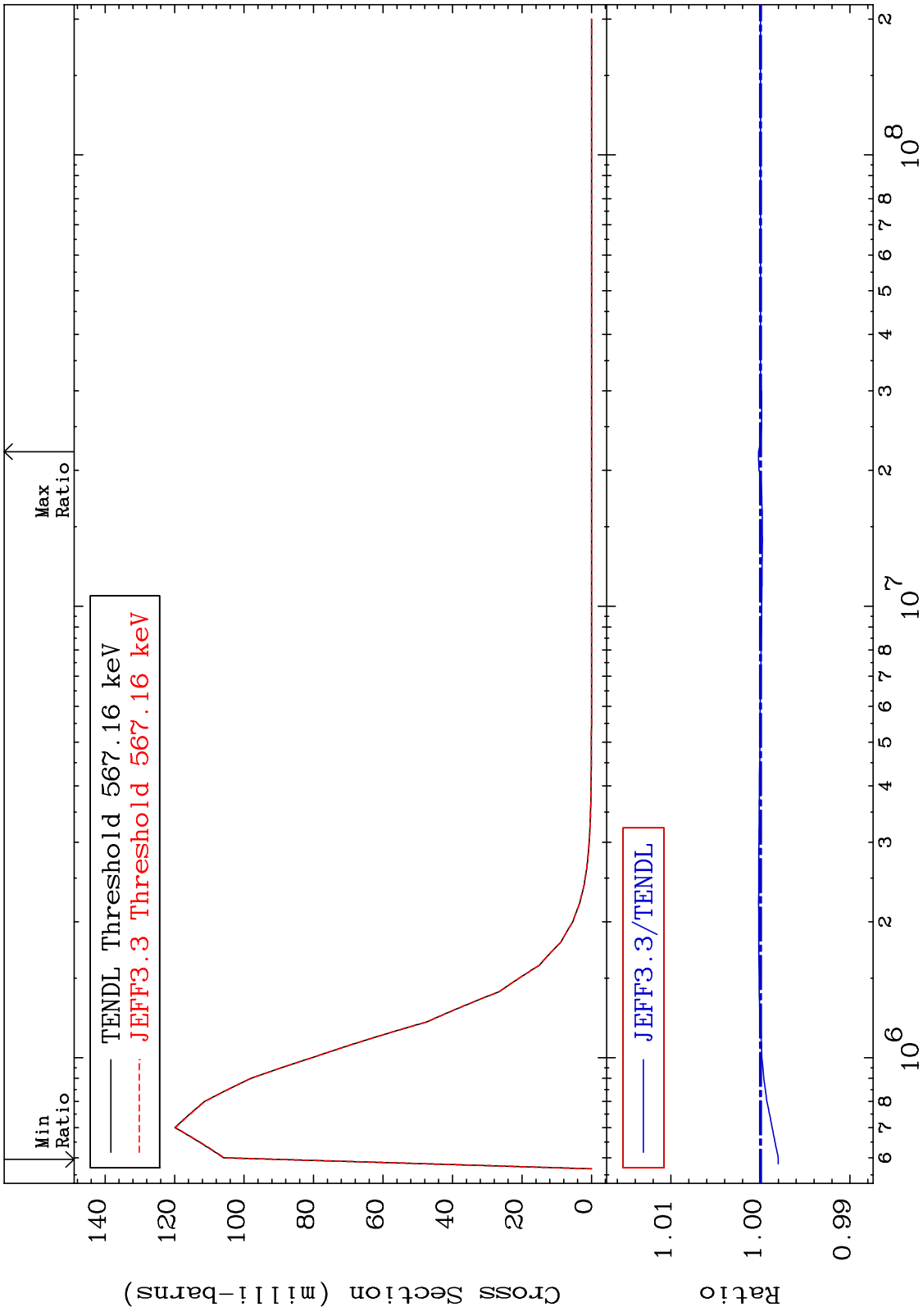


MAT 7128 MT= 72 (n,n') Level Cross Section 71-Lu-176 -0.429 To 0.003 %

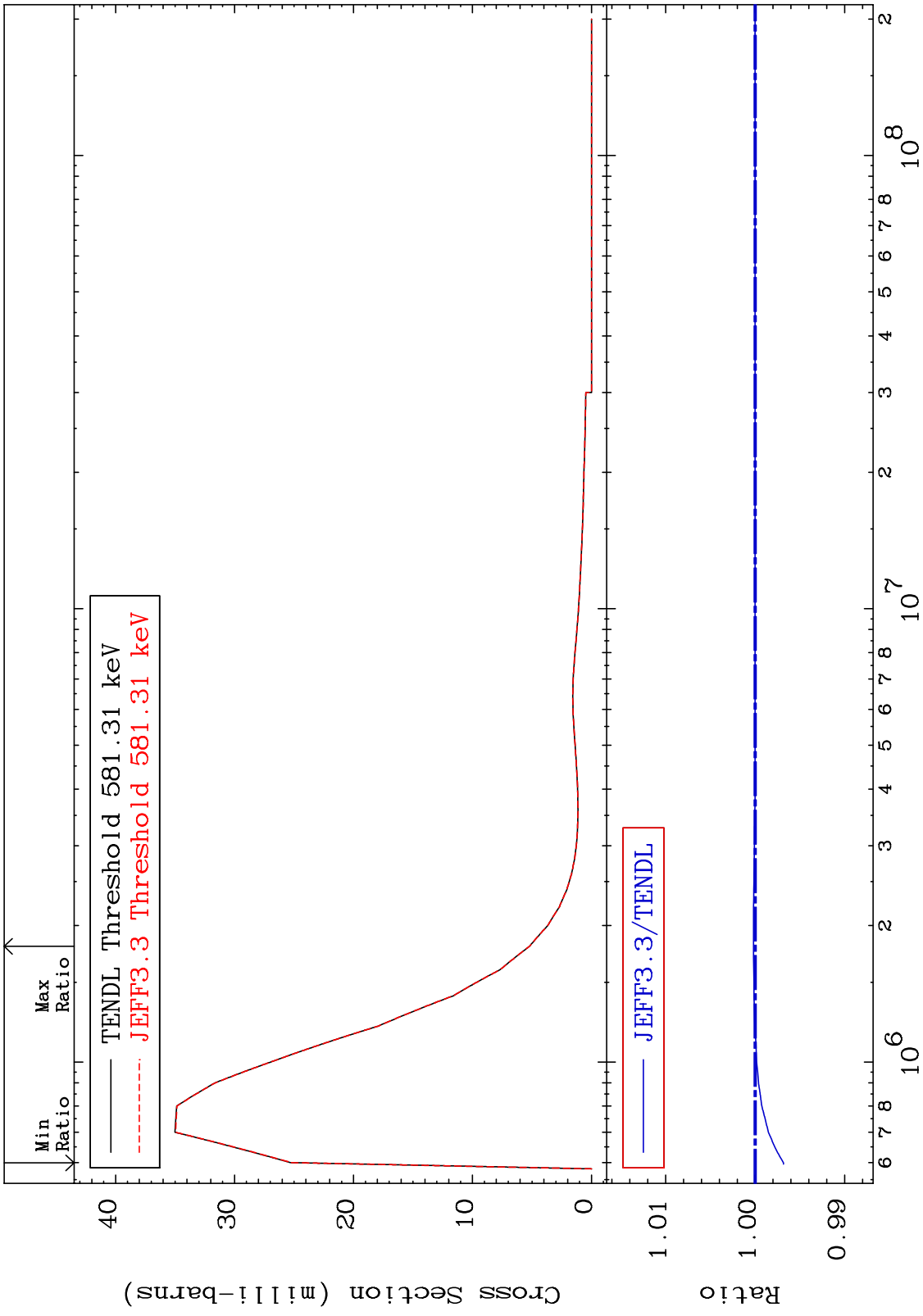


40 71-Lu-176

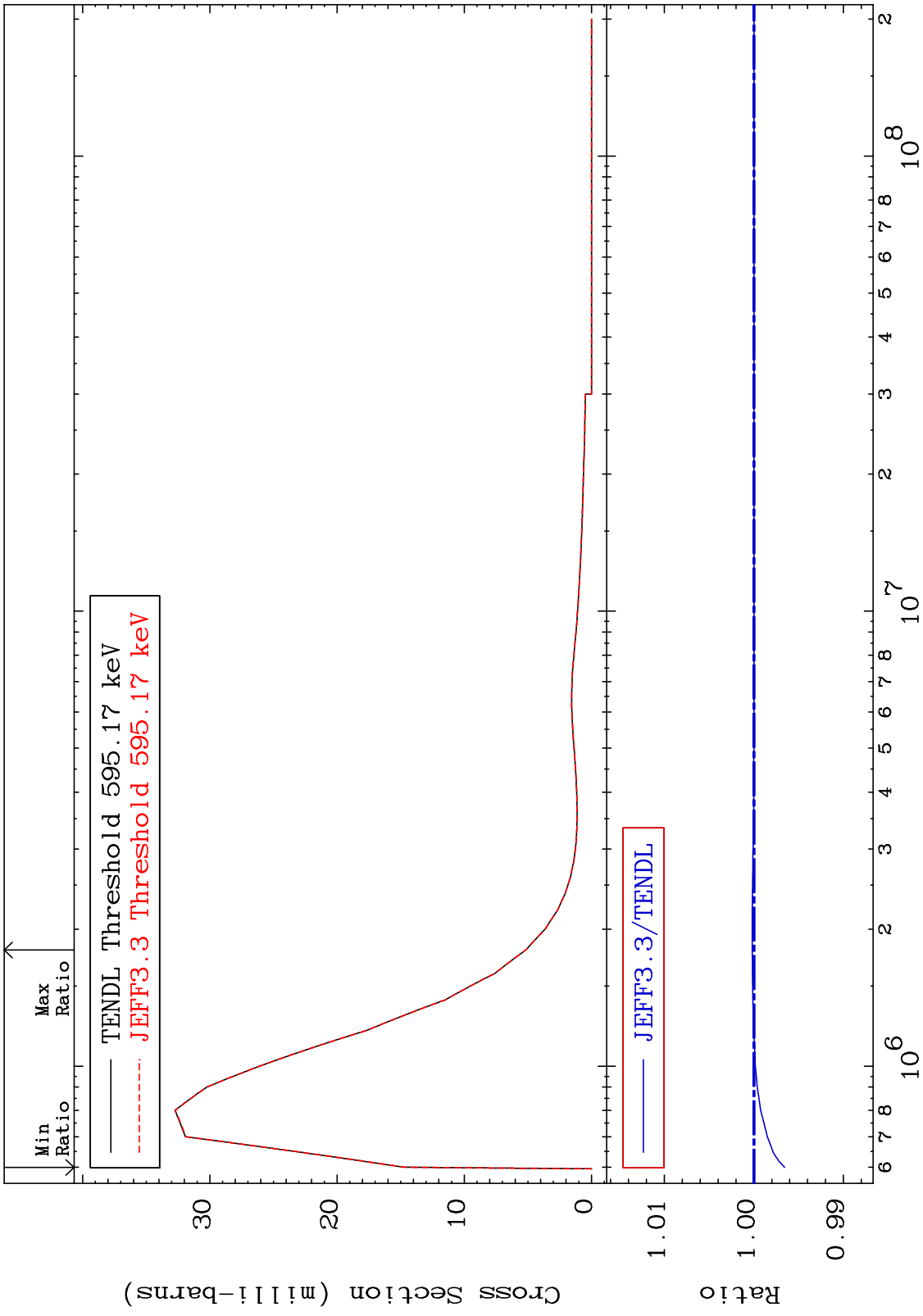
MAT 7128 MT= 73 (n,n') Level Cross Section 71-Lu-176 -0.199 To 0.021 %



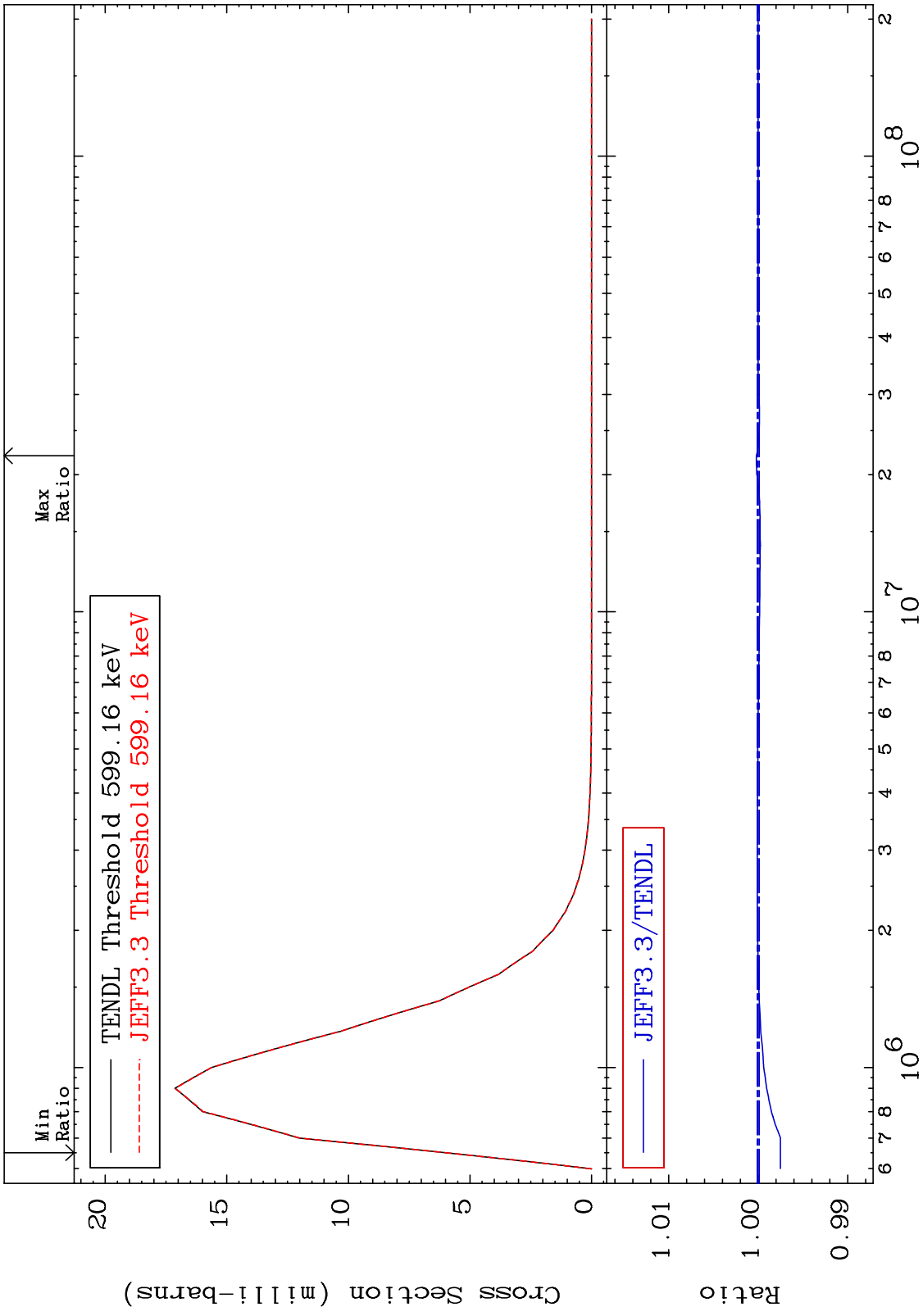
MAT 7128 MT= 74 (n,n') Level Cross Section 71-Lu-176 -0.316 To 0.019 %



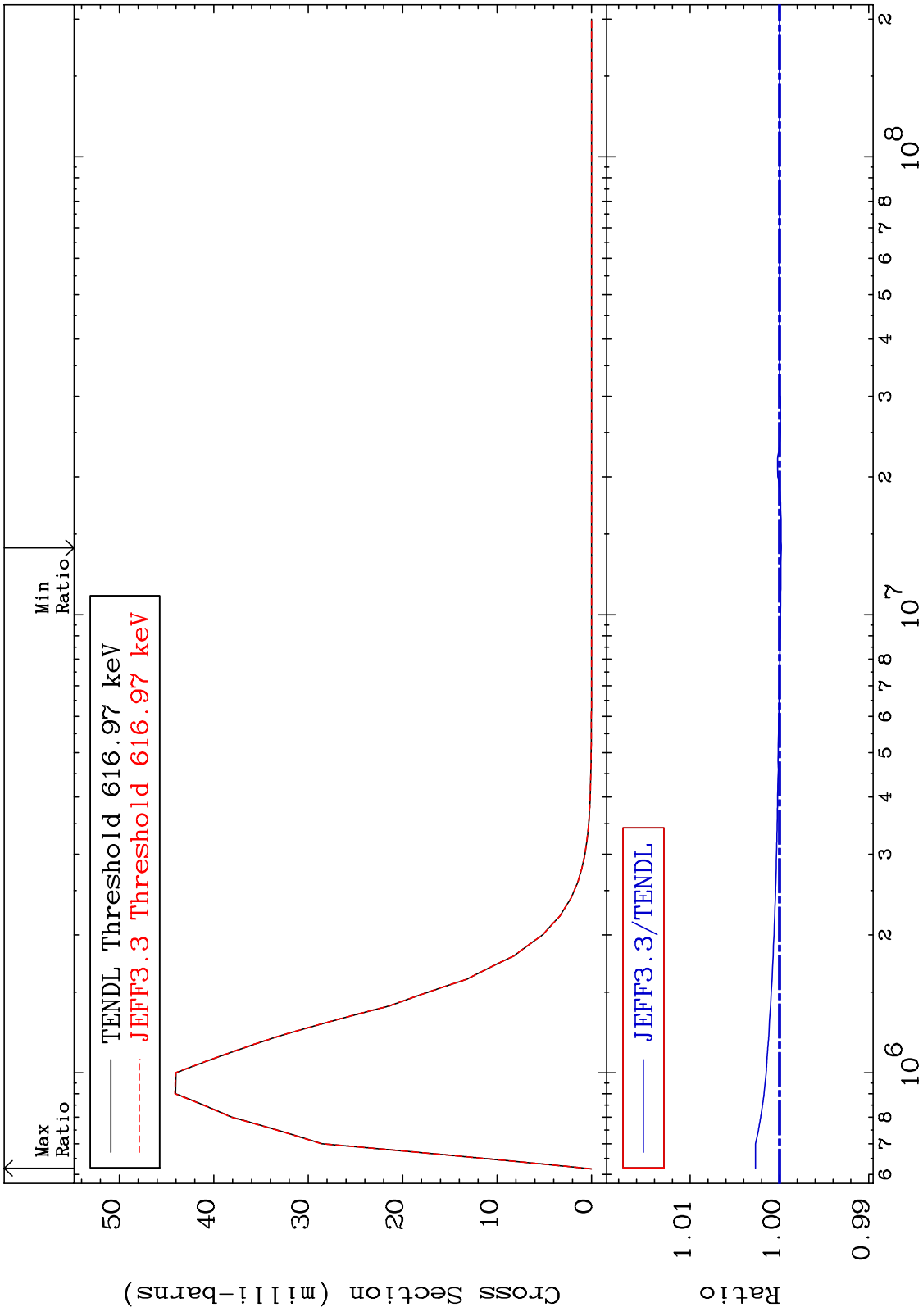
MAT 7128 MT= 75 (n,n') Level Cross Section 71-Lu-176 -0.344 To 0.018 %



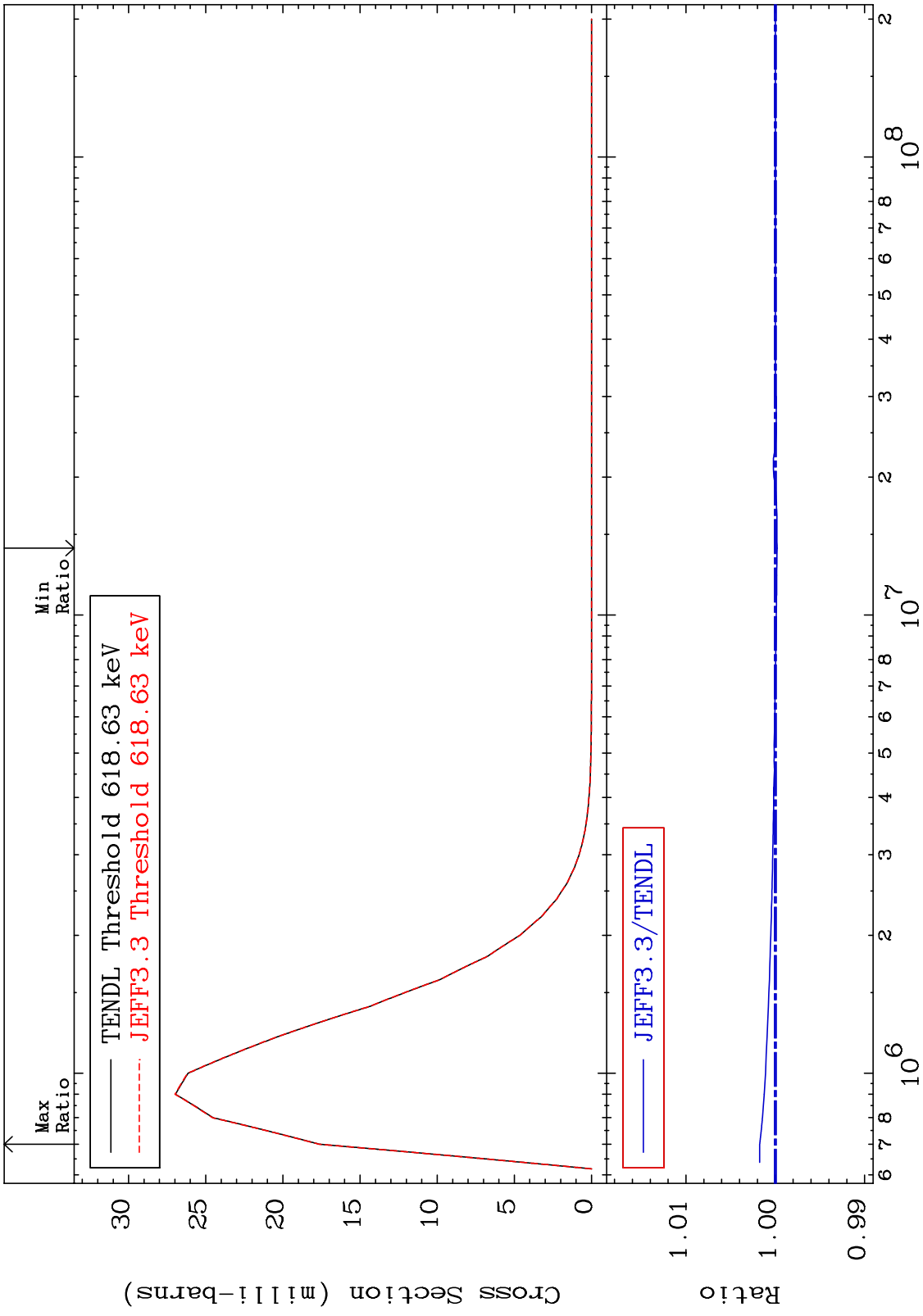
MAT 7128 MT= 76 (n,n') Level Cross Section 71-Lu-176  
 -0.249 To 0.020 %

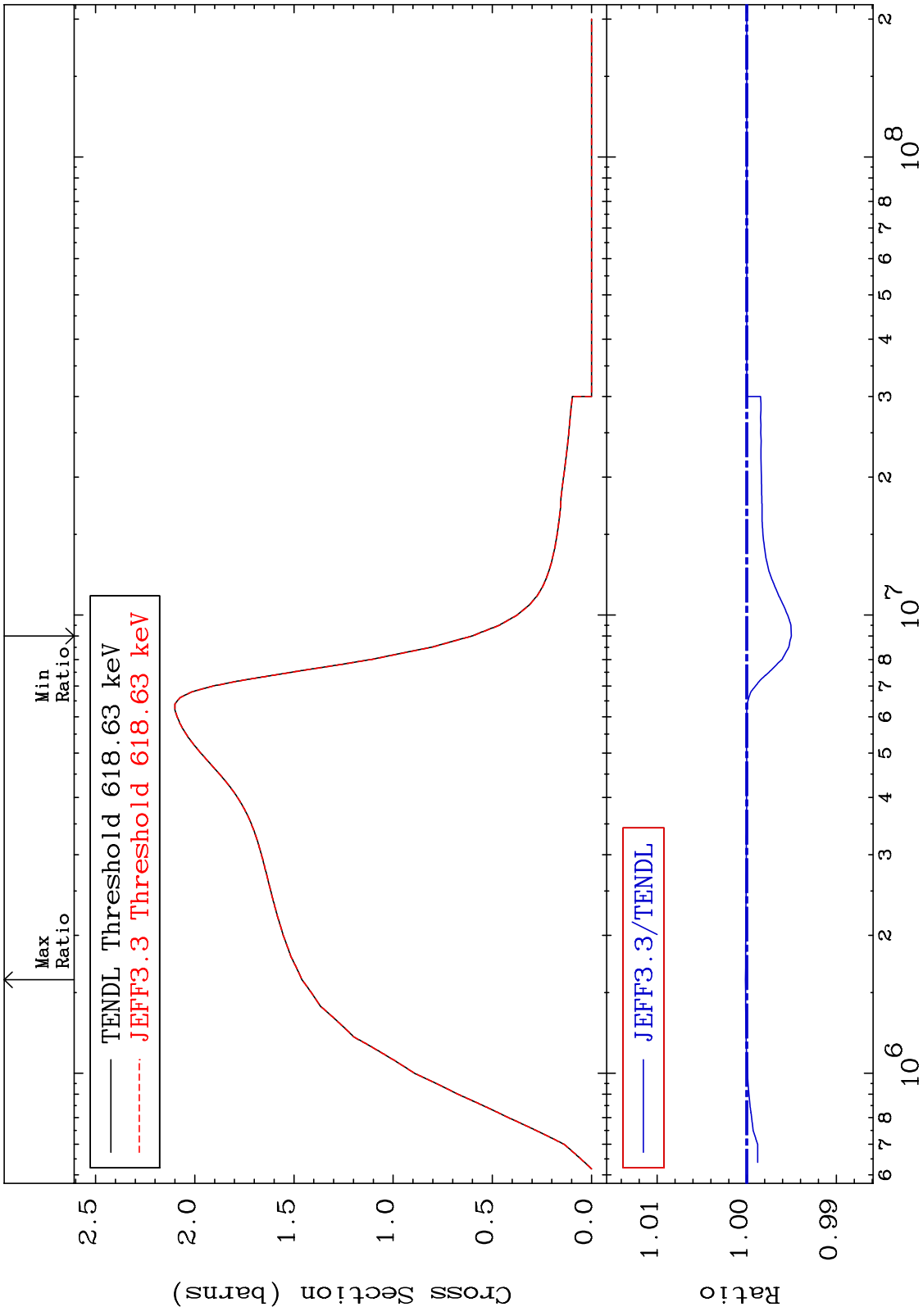


MAT 7128 MT= 77 (n,n') Level Cross Section 71-Lu-176 -0.021 To 0.268 %



MAT 7128 MT= 78 (n,n') Level Cross Section 71-Lu-176 -0.022 To 0.175 %

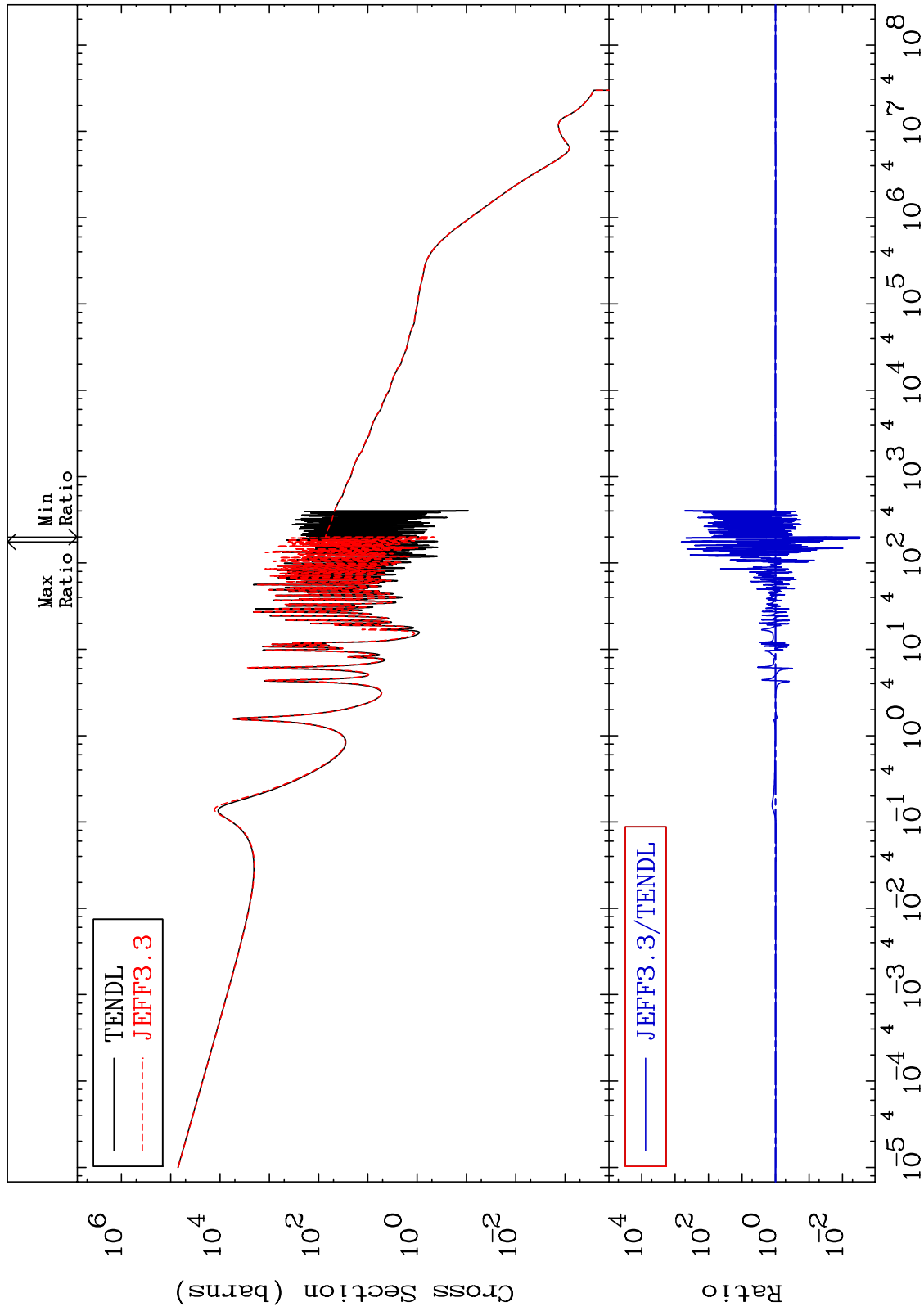




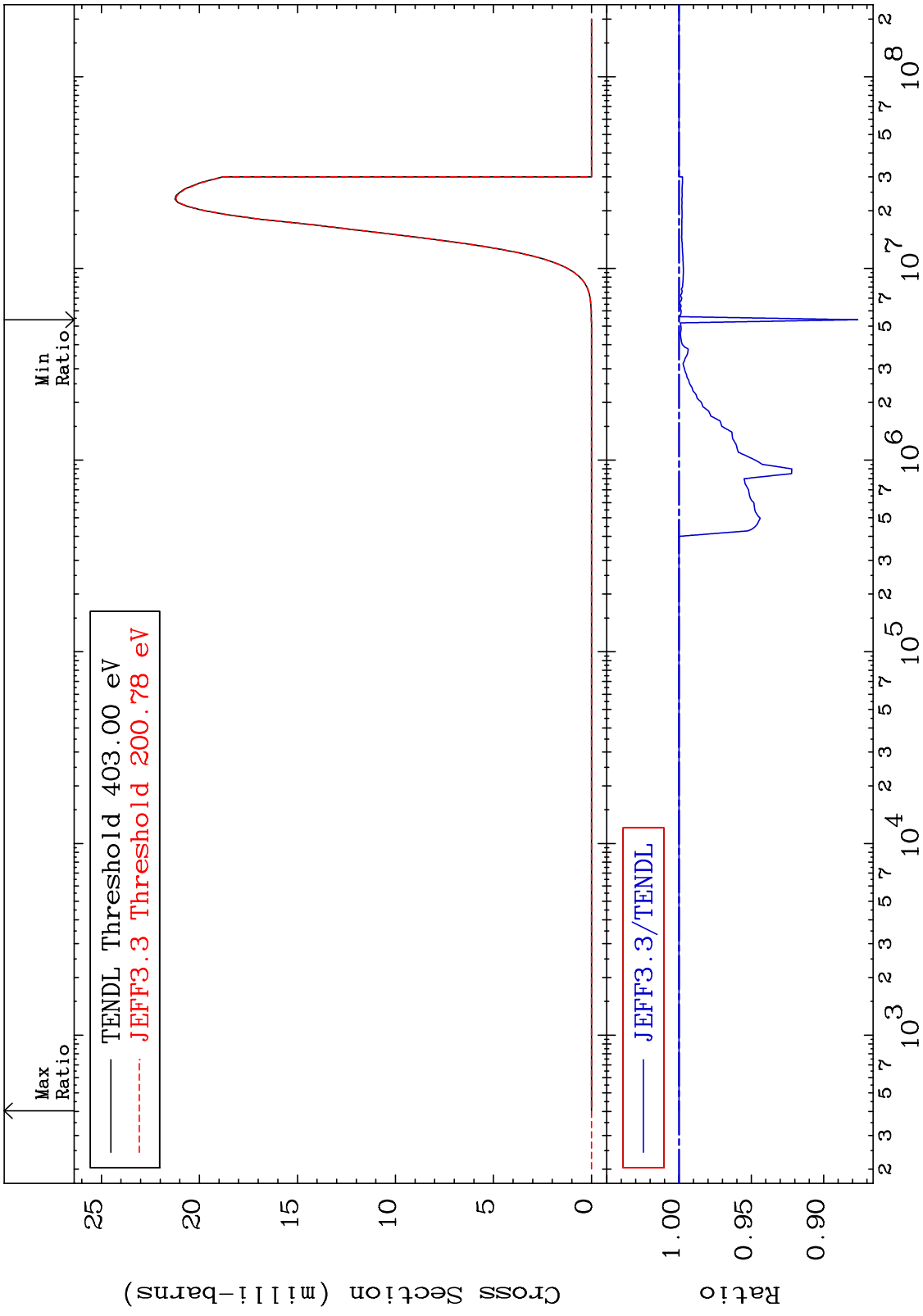


MAT 7128

(n,  $\gamma$ ) Cross Section  
71-Lu-176  
-99.70 To 9999. %



MAT 7128 (n,p) Cross Section 71-Lu-176 -12.36 To 0.000 %



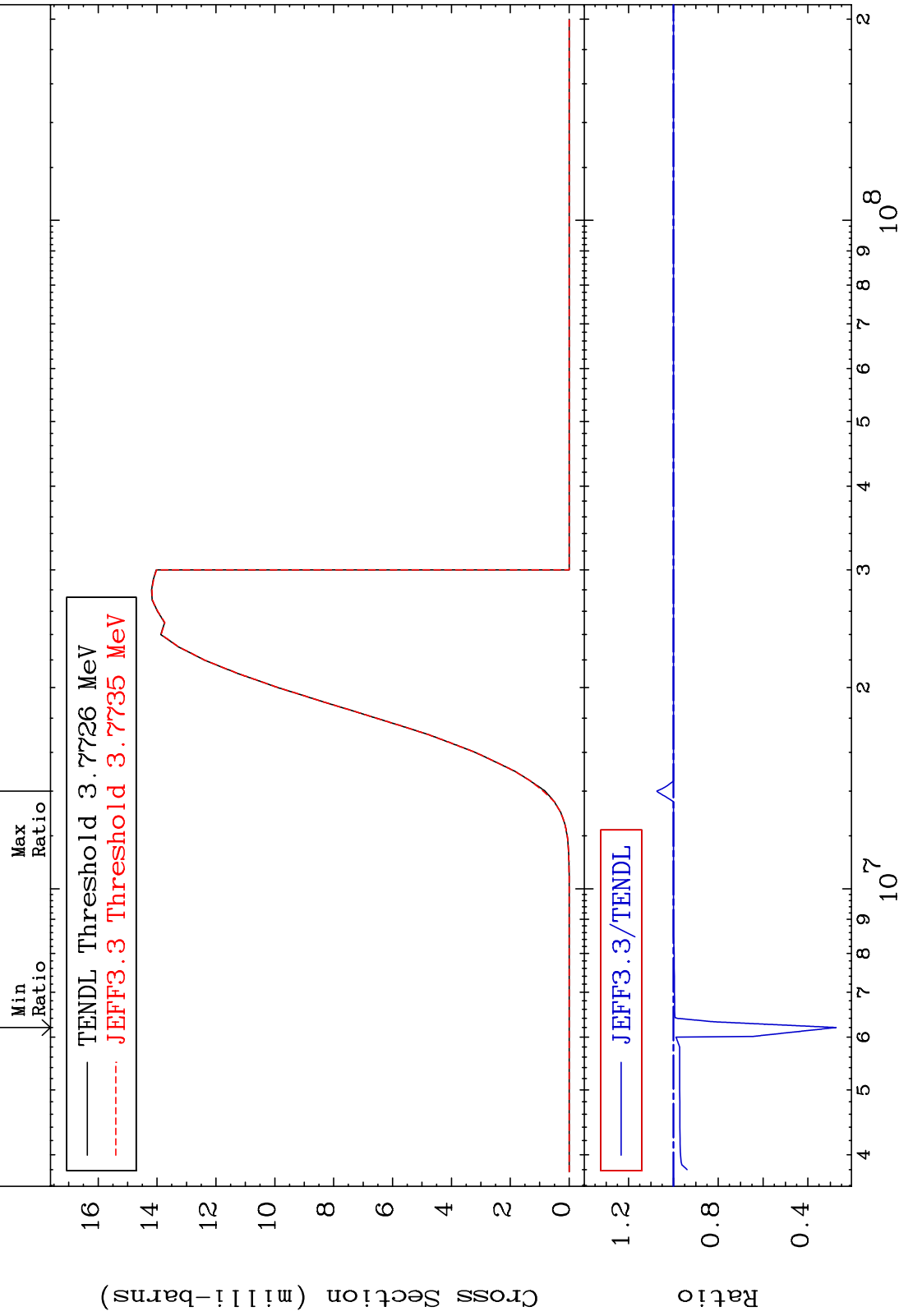
MAT 7128

(n,d)

71-Lu-176

Cross Section

-72.61 To 7.356 %

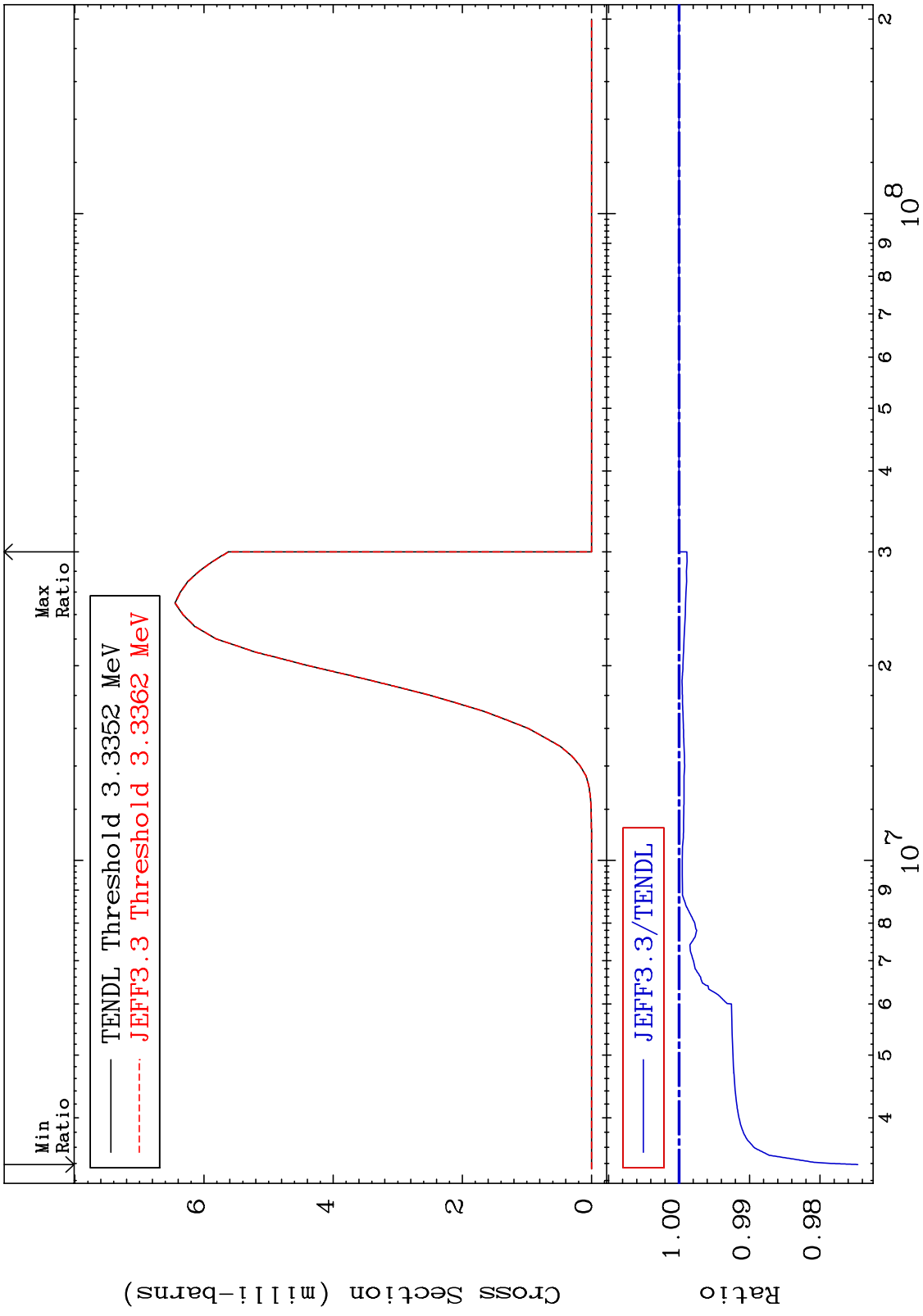


50

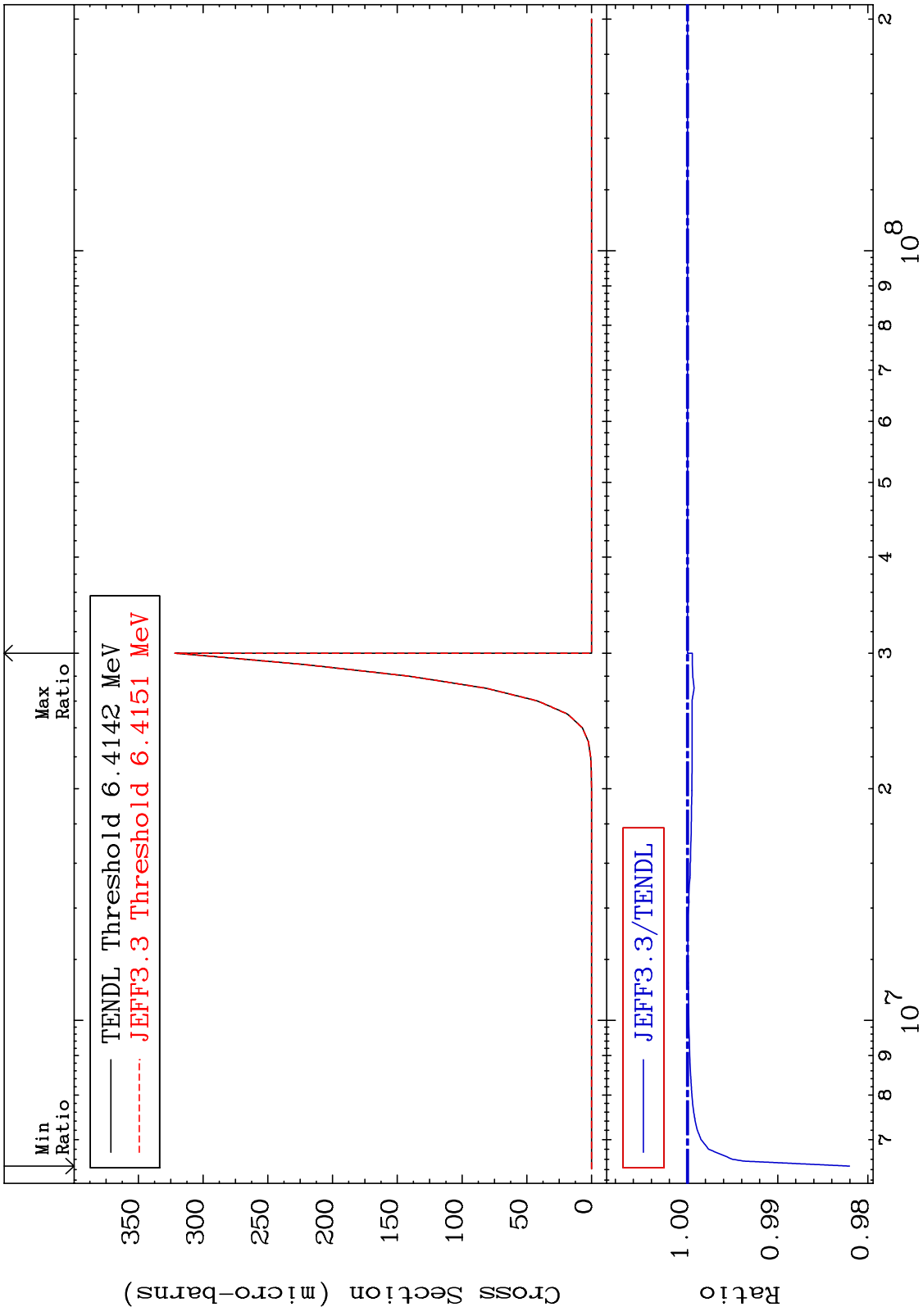
Incident Energy (eV)

71-Lu-176

MAT 7128 71-Lu-176  
-2.537 To 0.000 %  
(n, t)  
Cross Section



MAT 7128 (n, He-3) 71-Lu-176  
 Cross Section -1.795 To 0.000 %



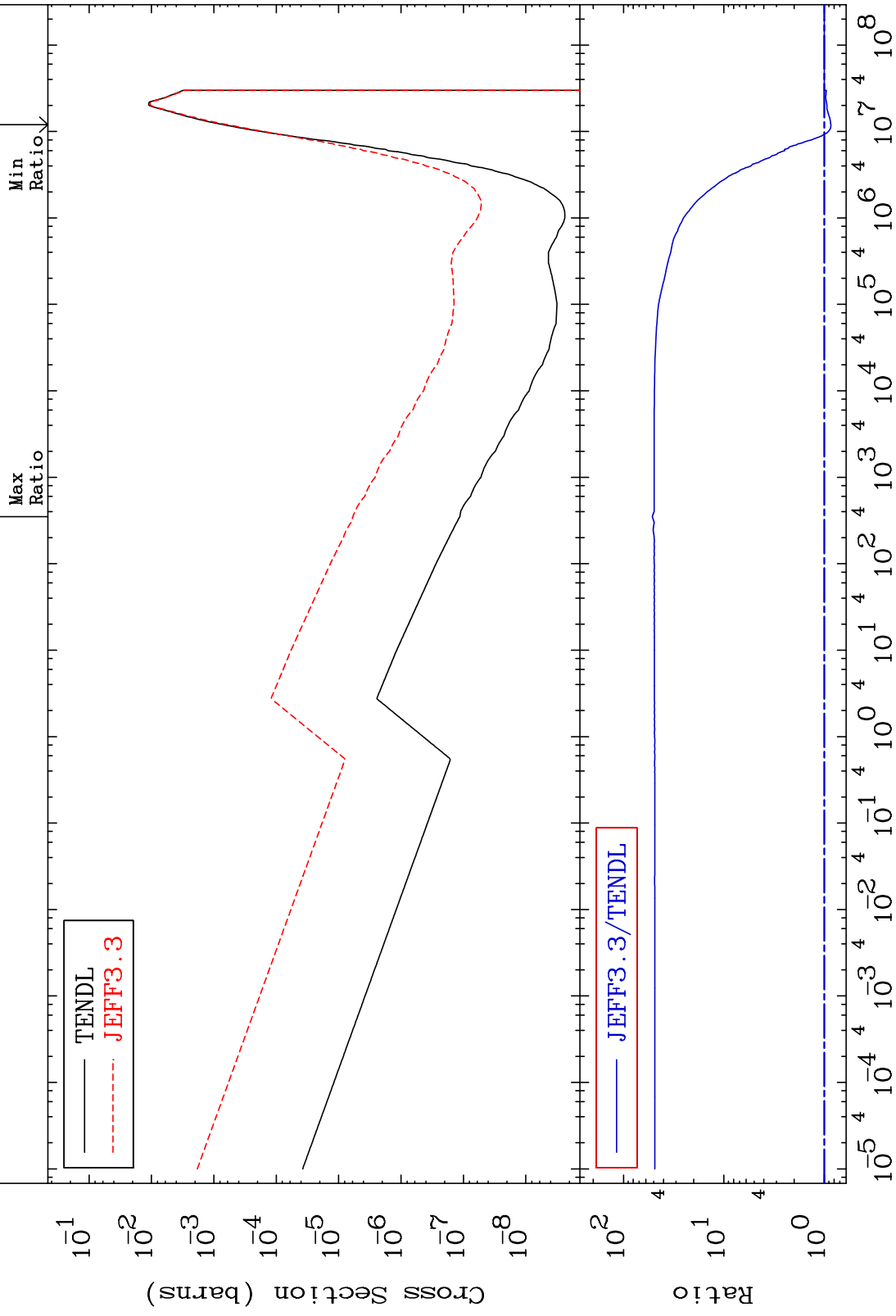
MAT 7128

(n,  $\alpha$ )

71-Lu-176

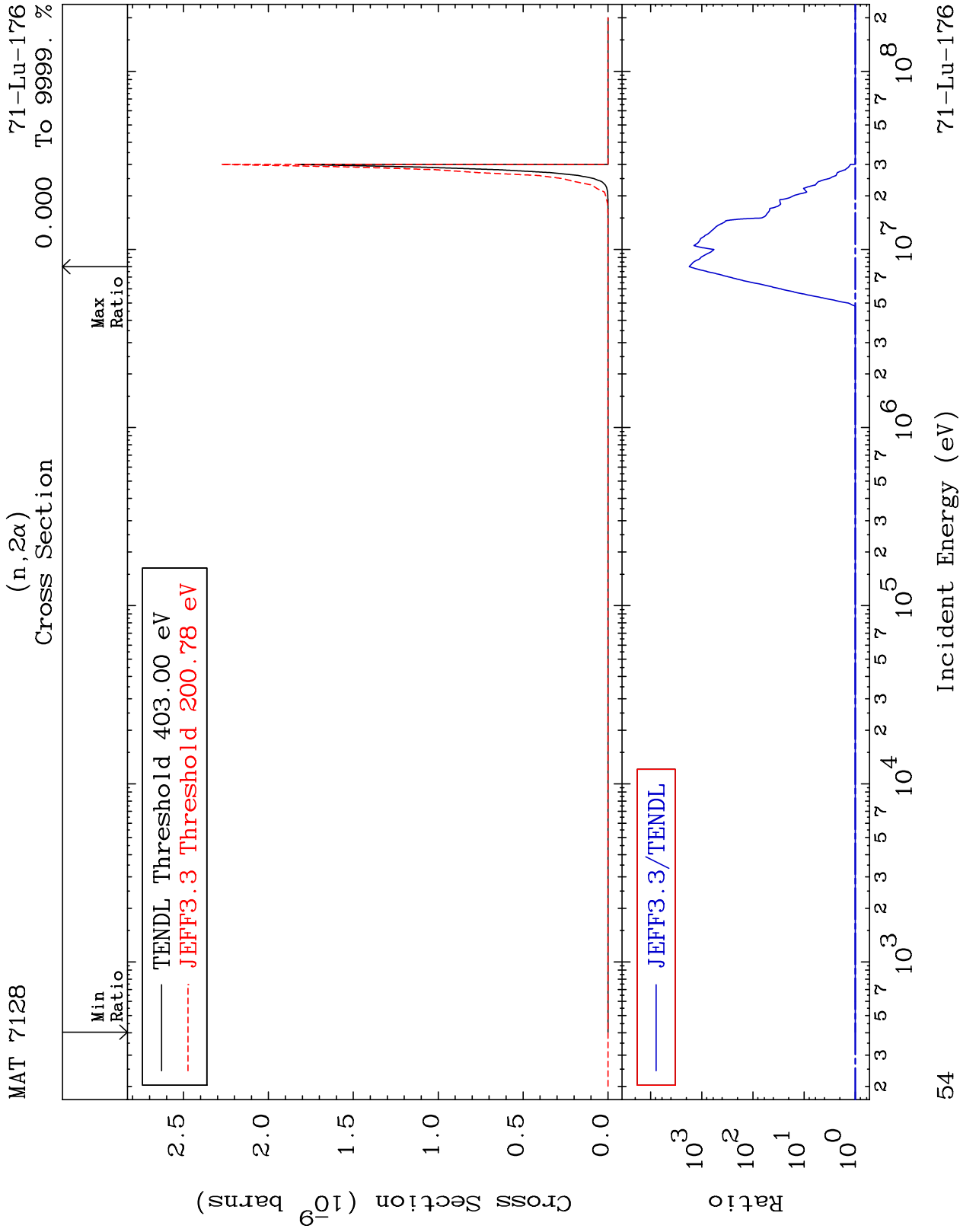
-13.96 To 5070. %

Cross Section

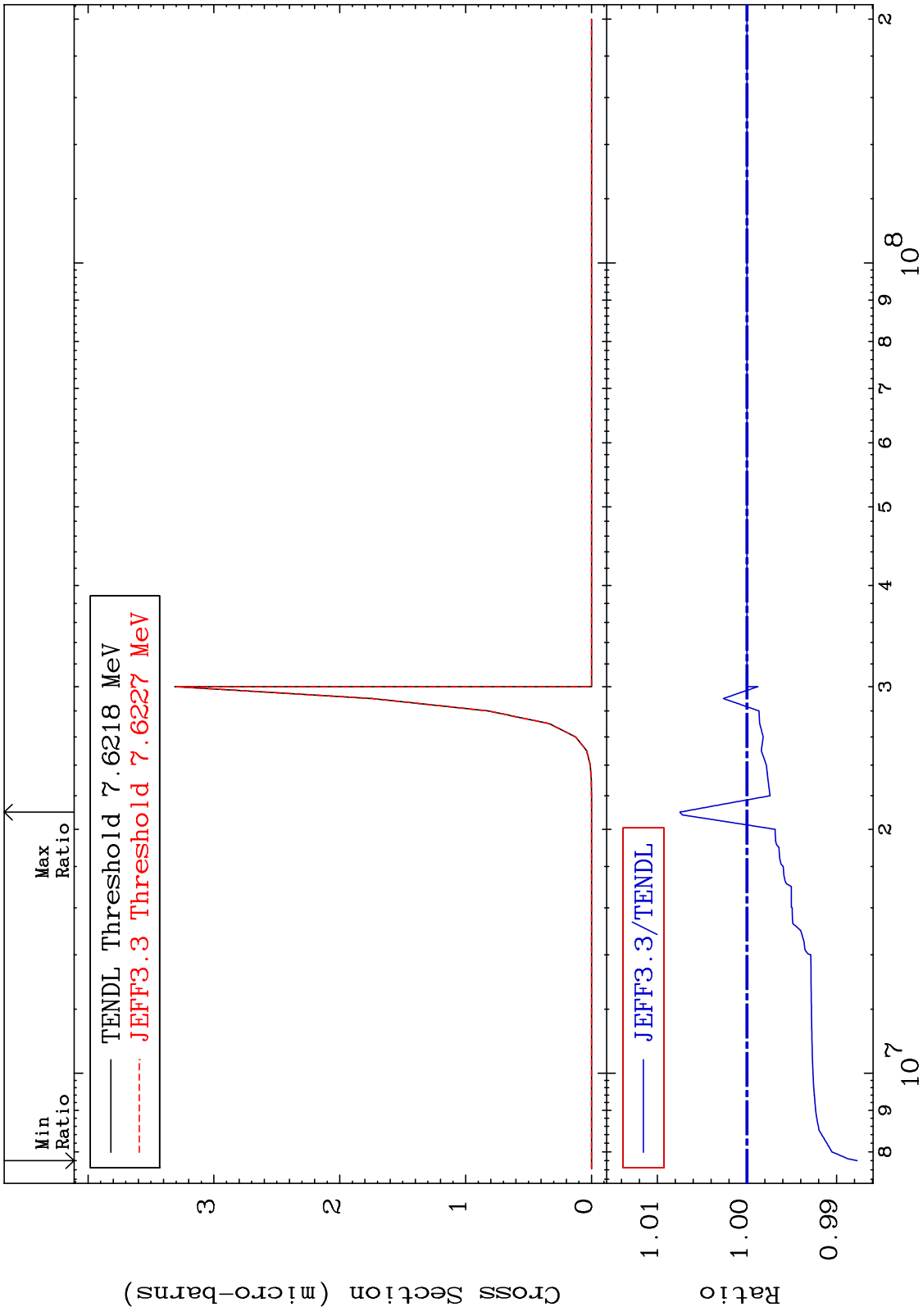


Incident Energy (eV)

71-Lu-176

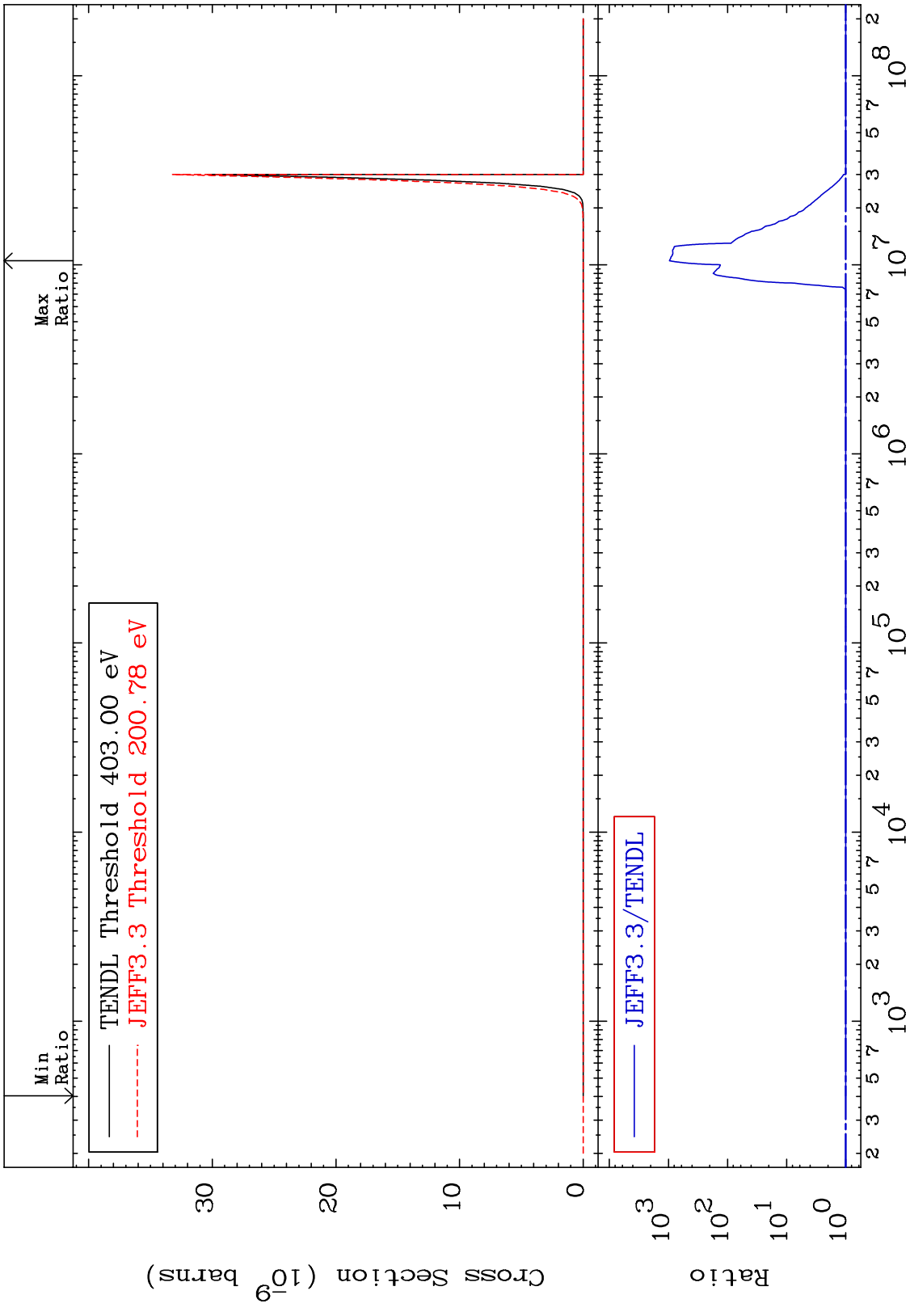


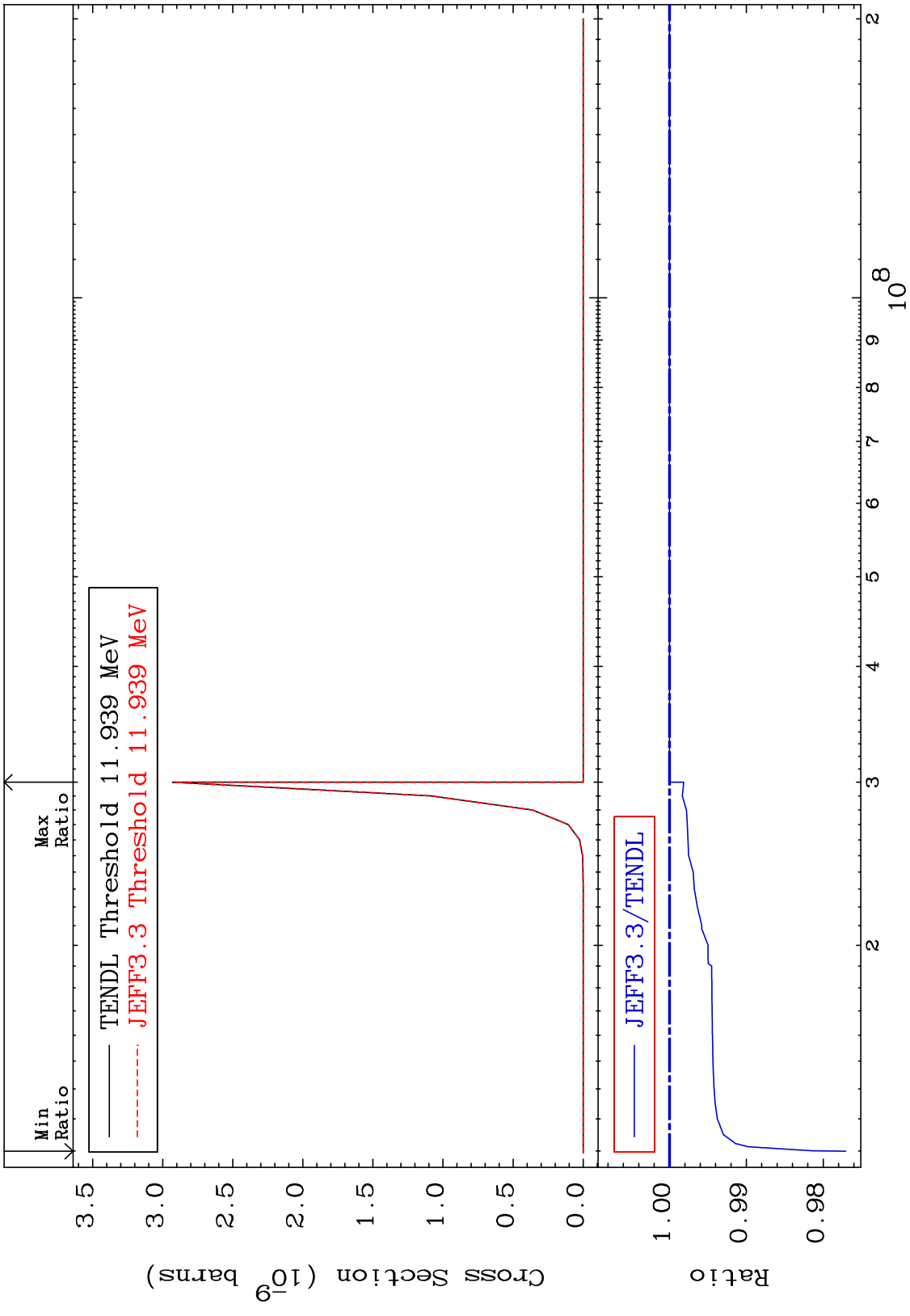
MAT 7128 71-Lu-176  
-1.228 To 0.749 %  
 (n,2p)  
 Cross Section





MAT 7128 (n,p)  $\alpha$  71-Lu-176  
 Cross Section To 9999. %





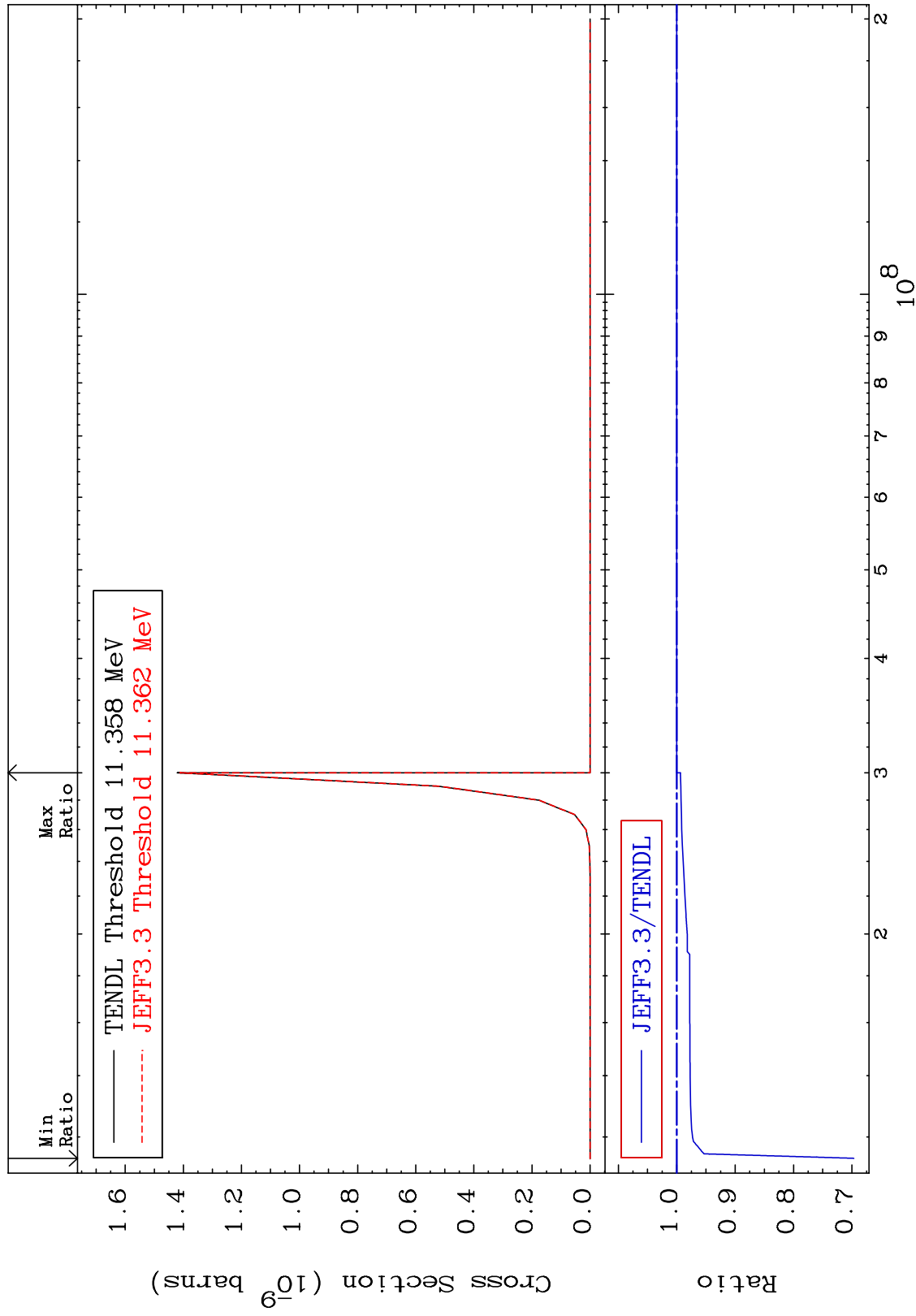
MAT 7128

(n,p) t

<sup>71</sup>Lu-176

Cross Section

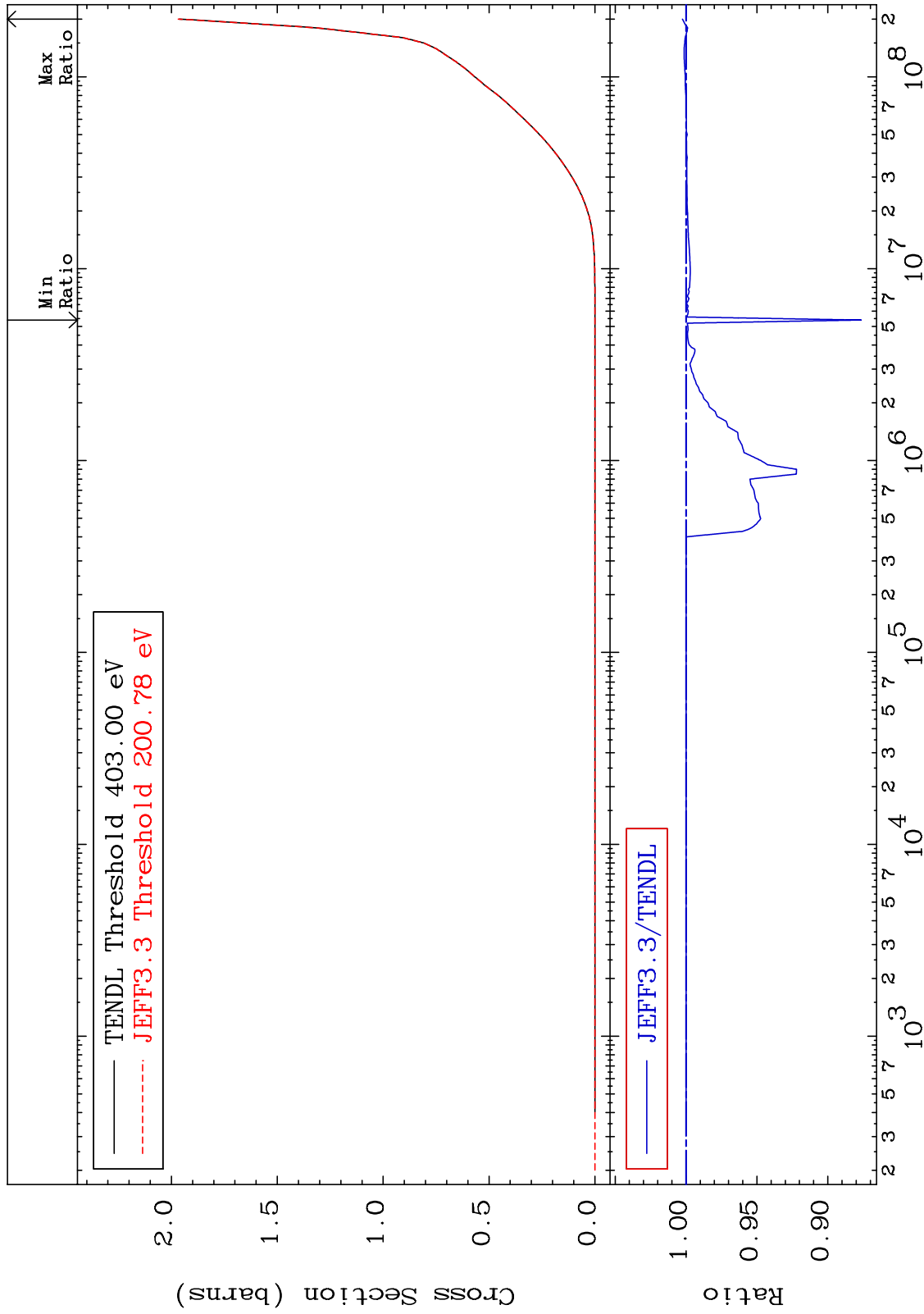
-30.33 To 0.000 %



MAT 7128

Hydrogen Production  
Cross Section

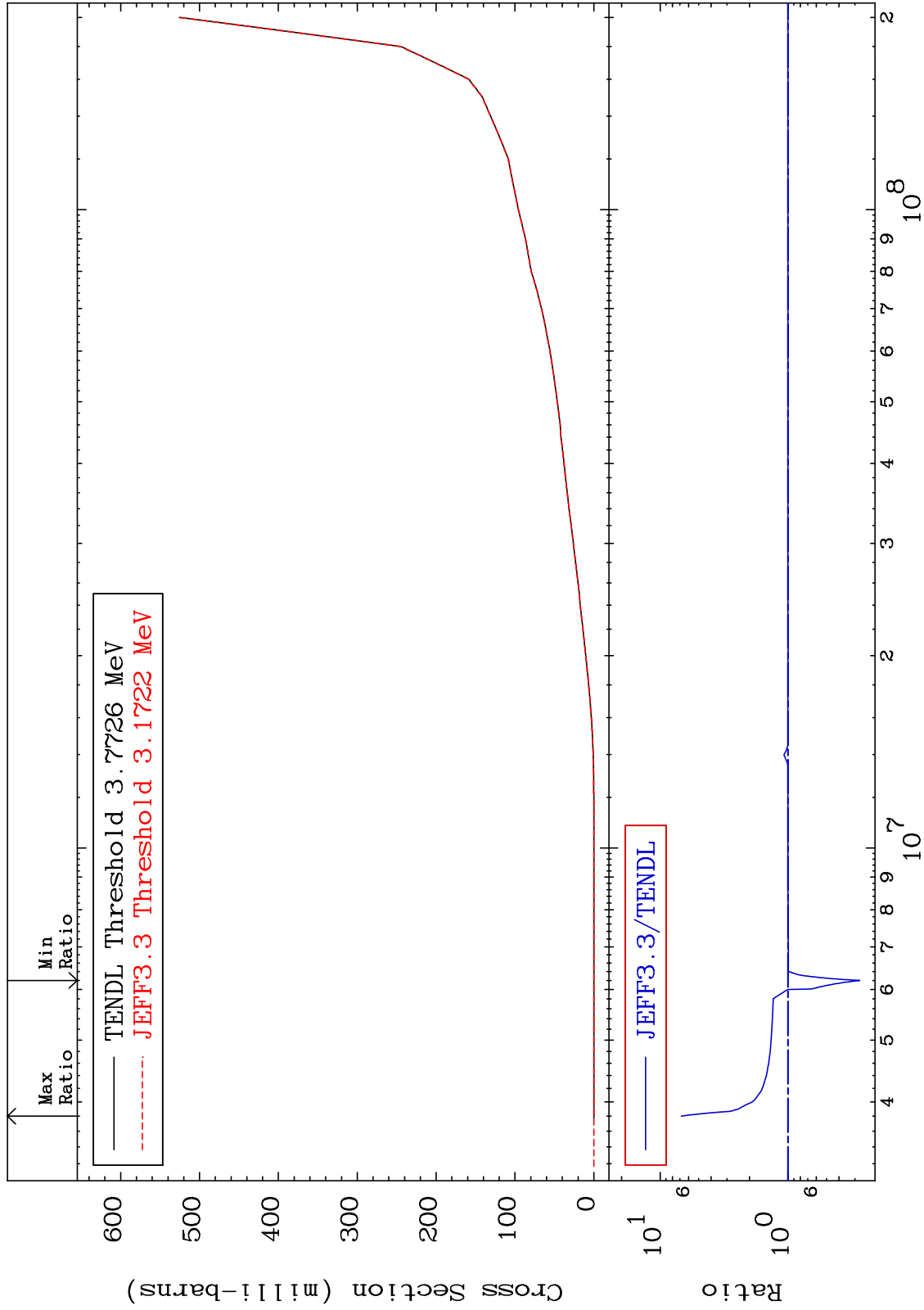
71-Lu-176  
-12.36 To 0.253 %



MAT 7128

Deuterium Production  
Cross Section

71-Lu-176  
-72.54 To 583.6 %



60

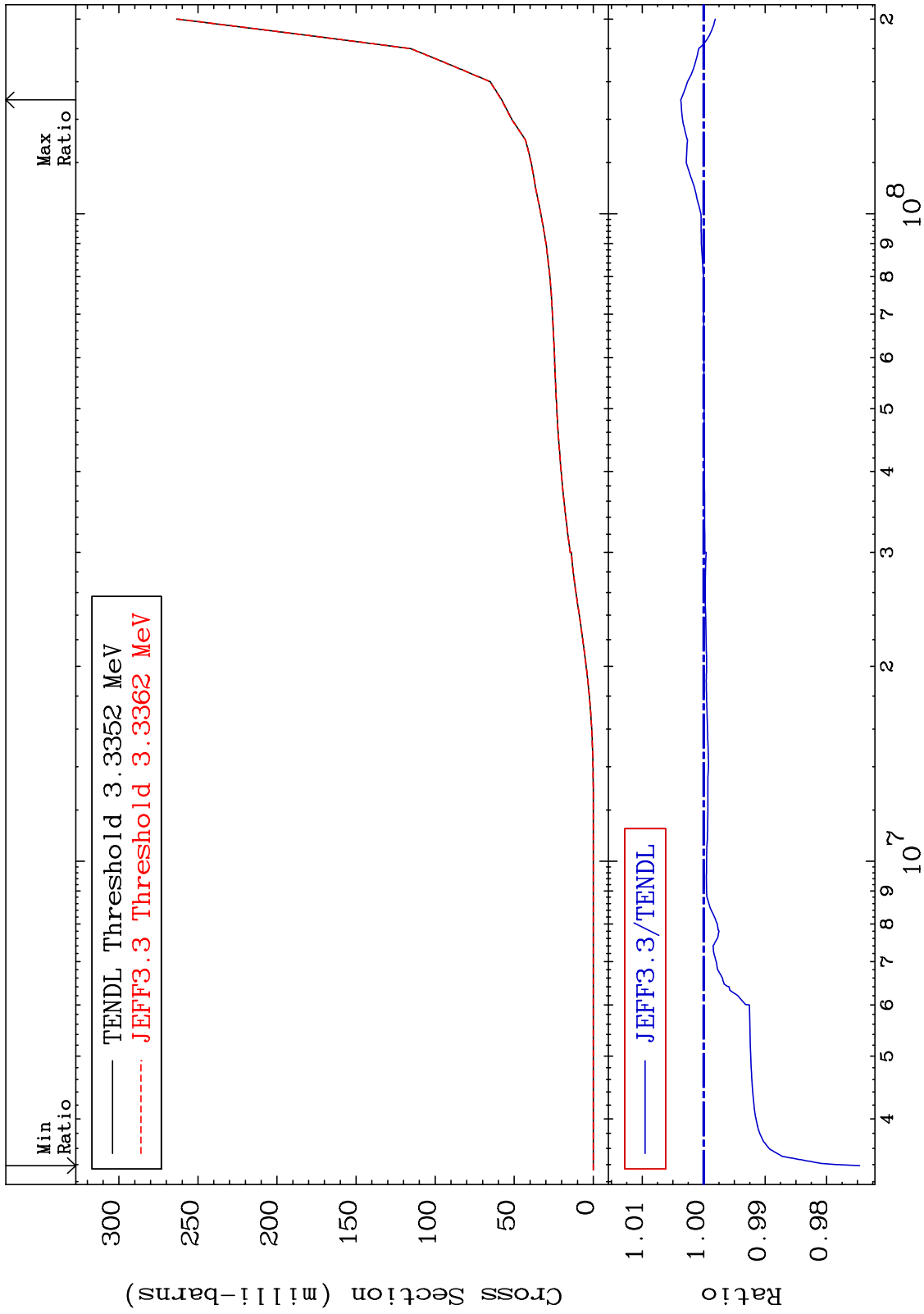
Incident Energy (eV)

71-Lu-176

MAT 7128

Tritium Production  
Cross Section

71-Lu-176  
-2.537 To 0.371 %

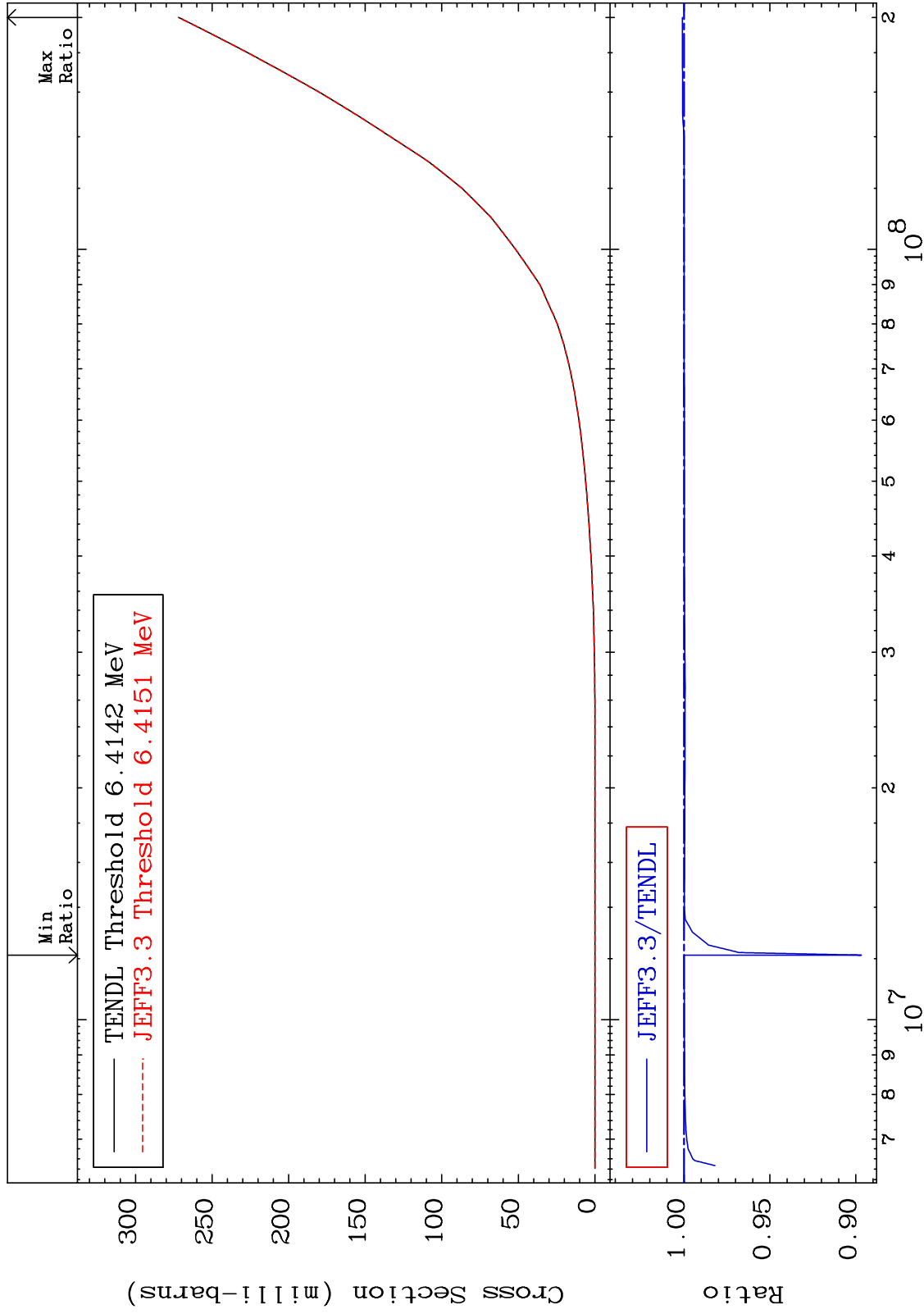


61

MAT 7128

He-3 Production  
Cross Section

71-Lu-176  
-10.32 To 0.094 %



62

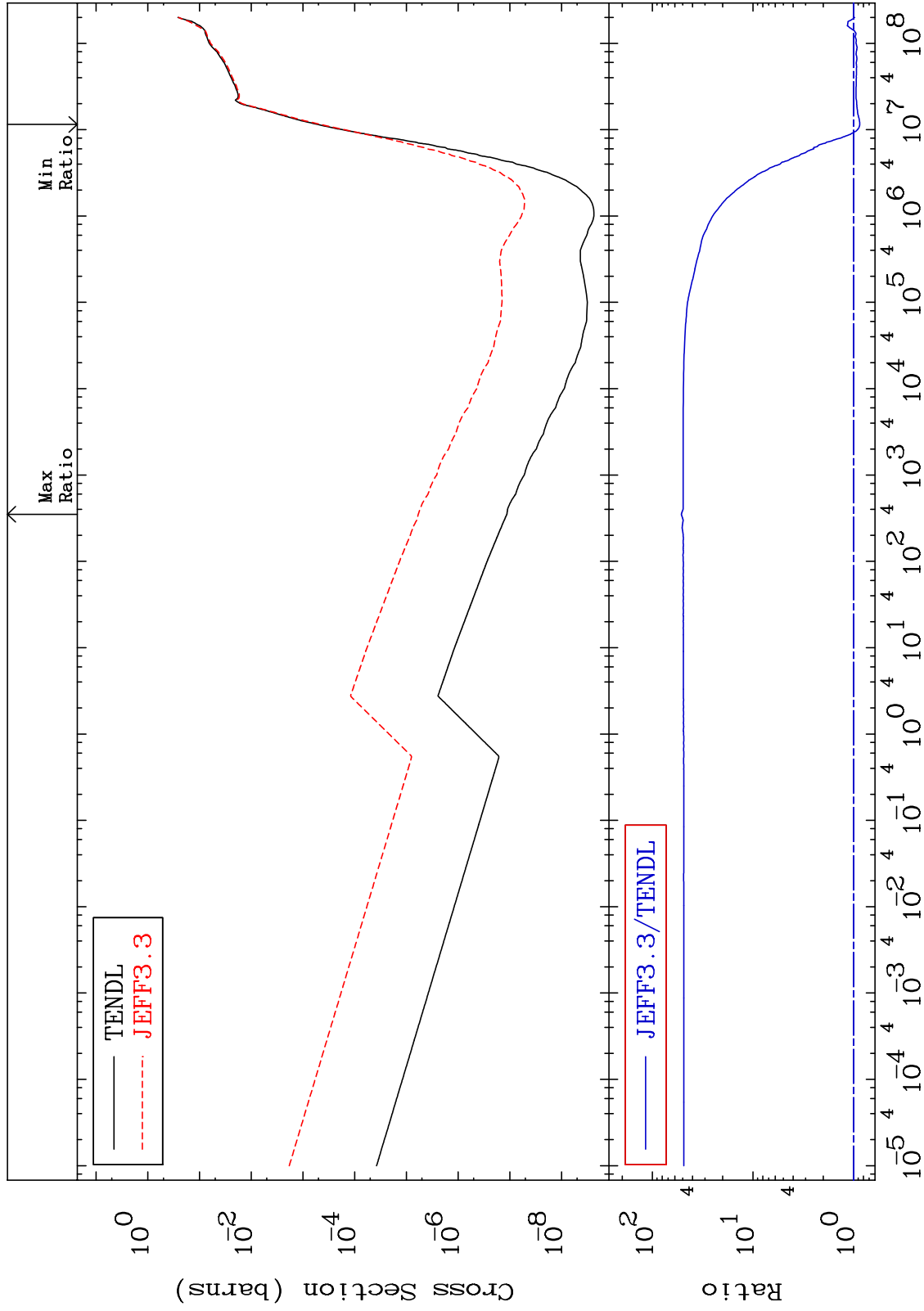
Incident Energy (eV)

71-Lu-176

MAT 7128

He-4 Production  
Cross Section

71-Lu-176  
-13.11 To 5070. %



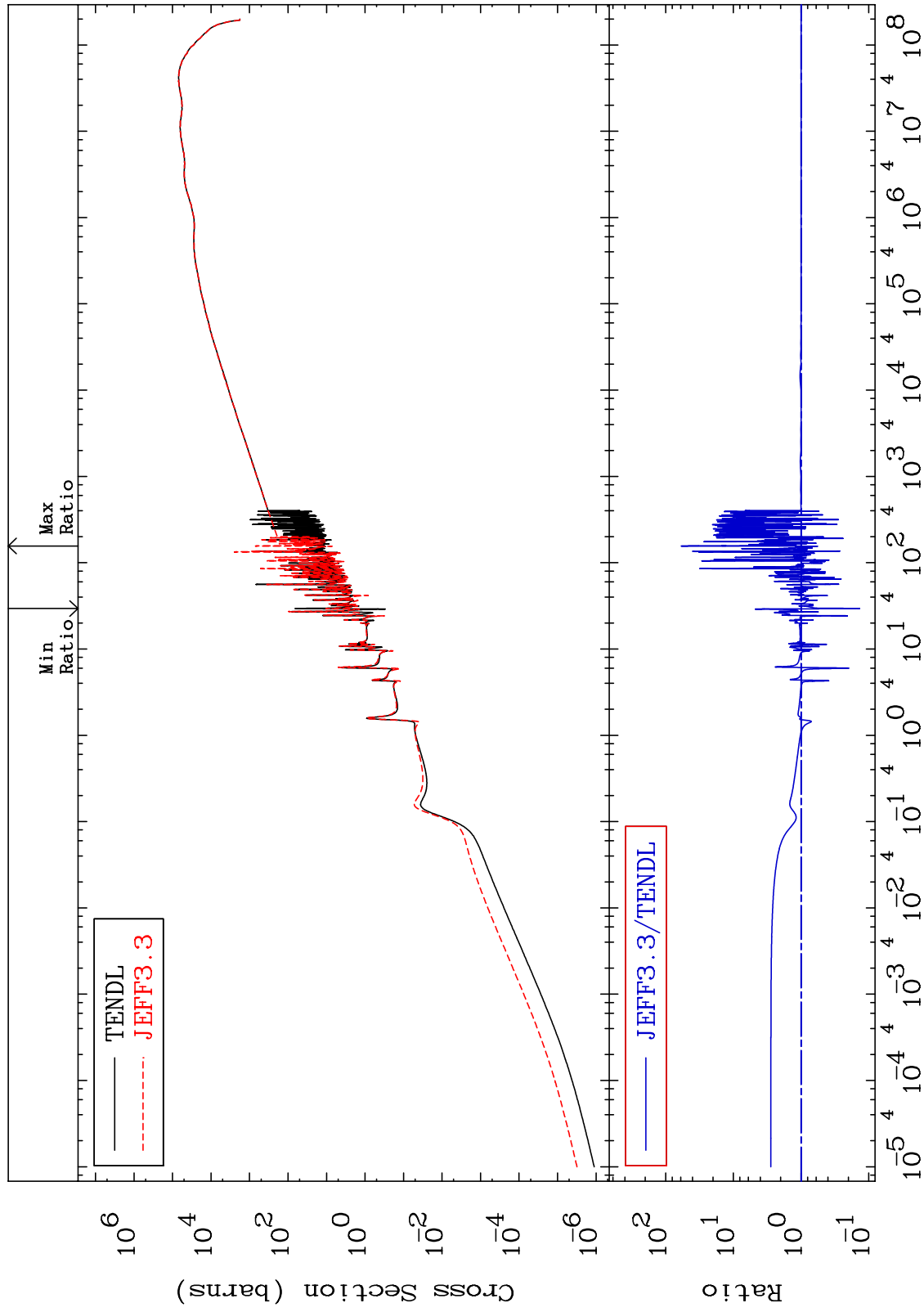




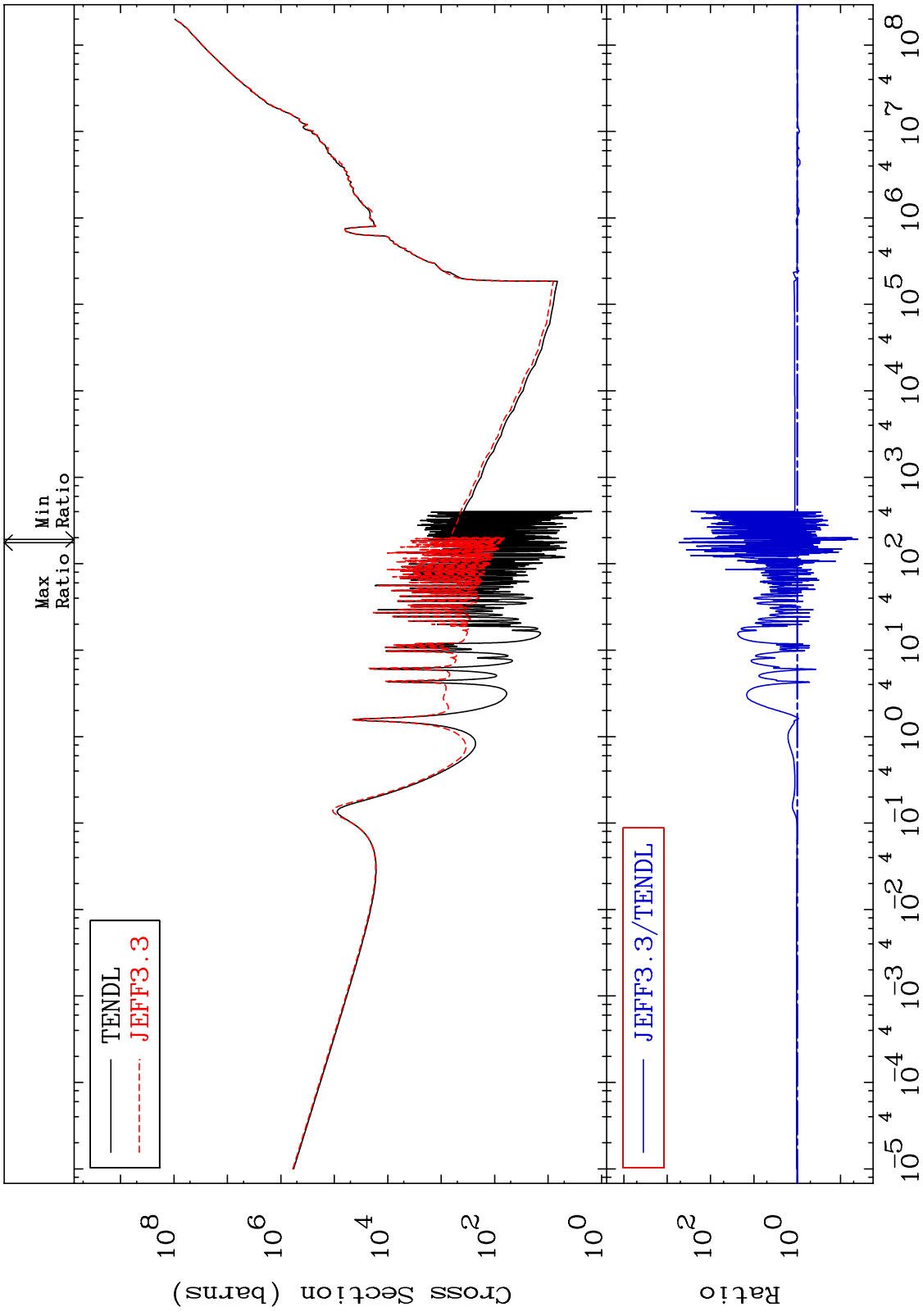
MAT 7128

Kerma elastic  
Cross Section

71-Lu-176  
-86.44 To 5736. %



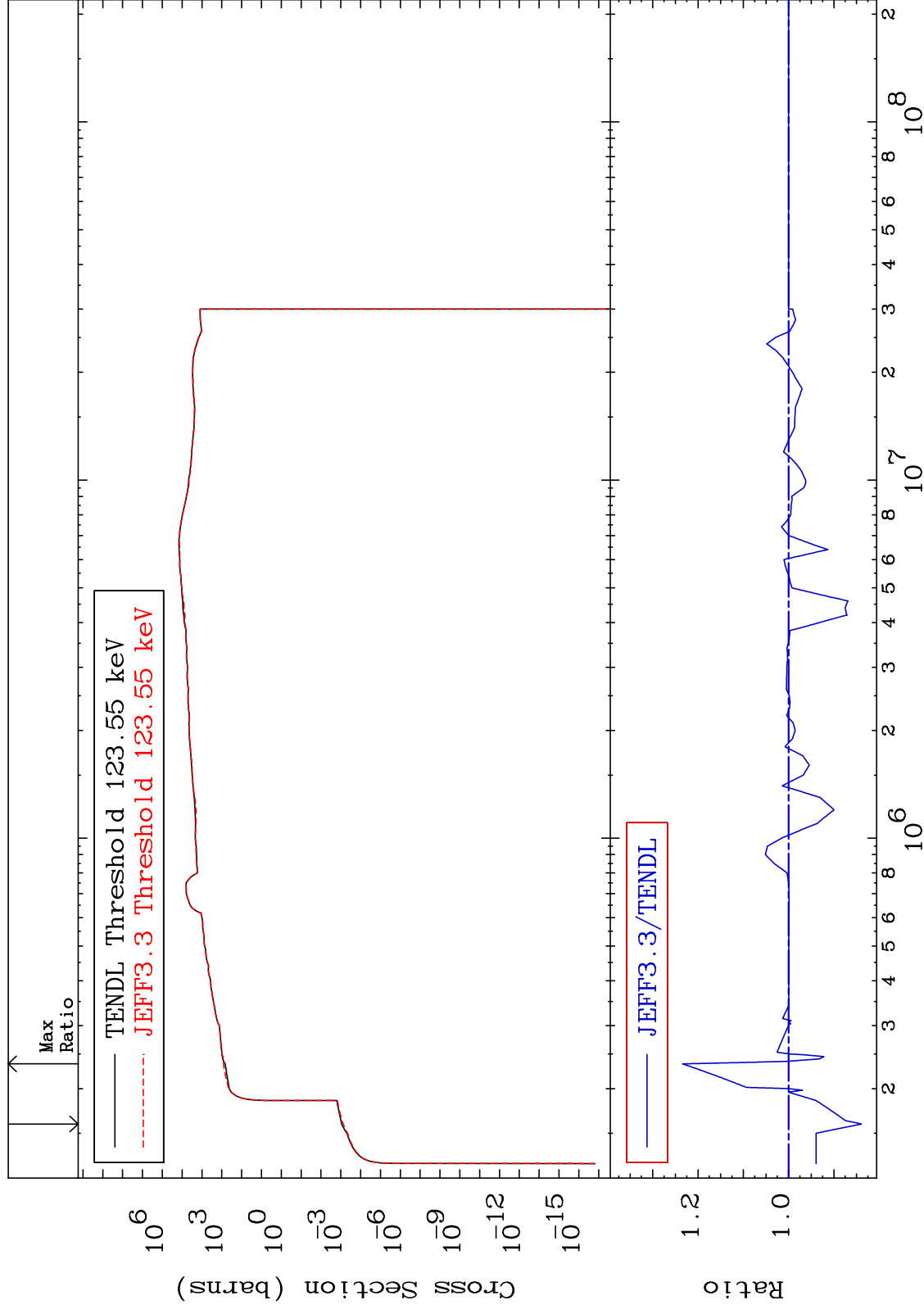
MAT 7128 Kerma non-elastic (all but mt2) 71-Lu-176  
 Cross Section -96.00 To 9999. %



MAT 7128

Kerma inelastic (mt51-91)  
Cross Section

71-Lu-176  
-16.06 To 23.39 %



67

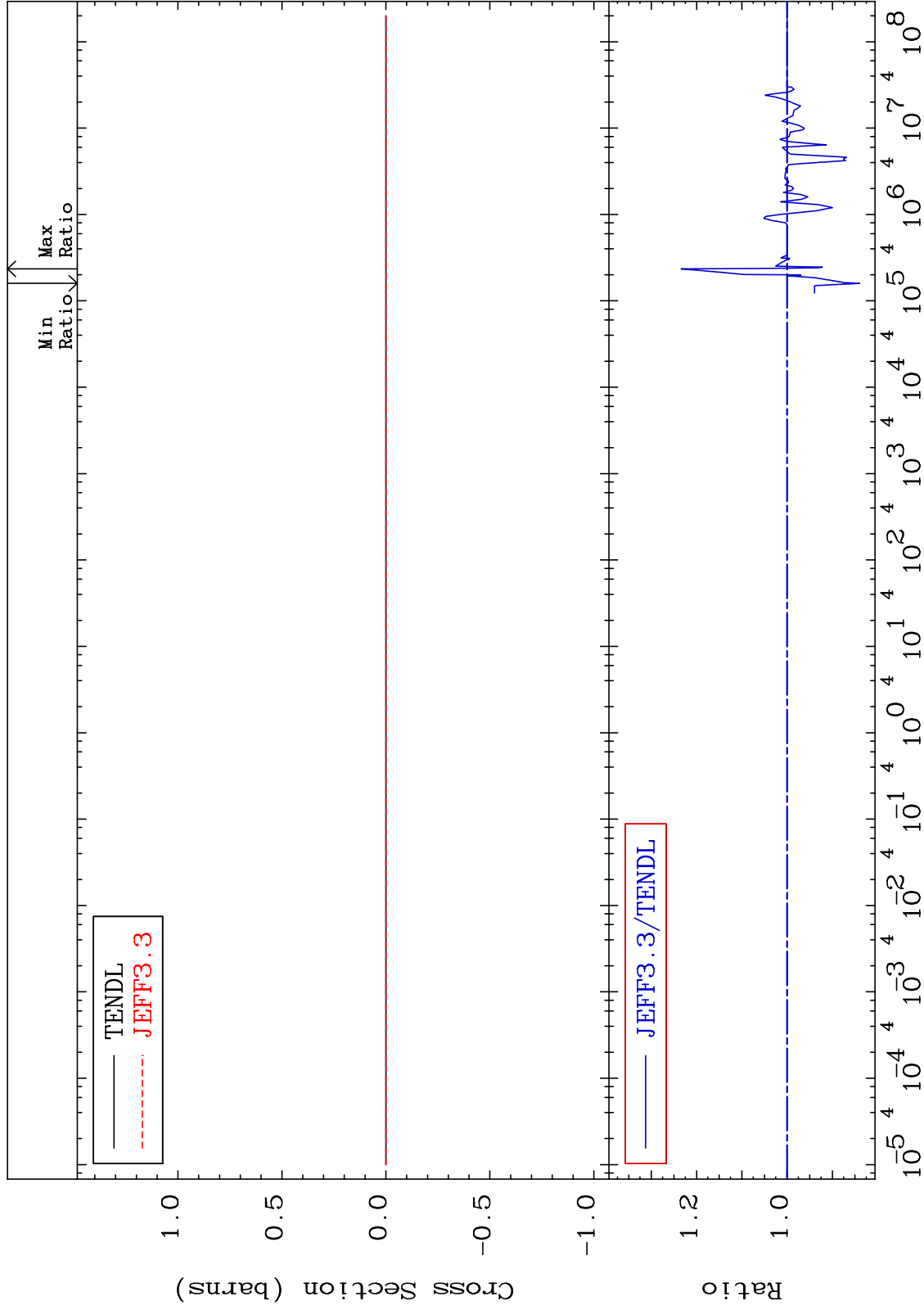
71-Lu-176

71-Lu-176

MAT 7128

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

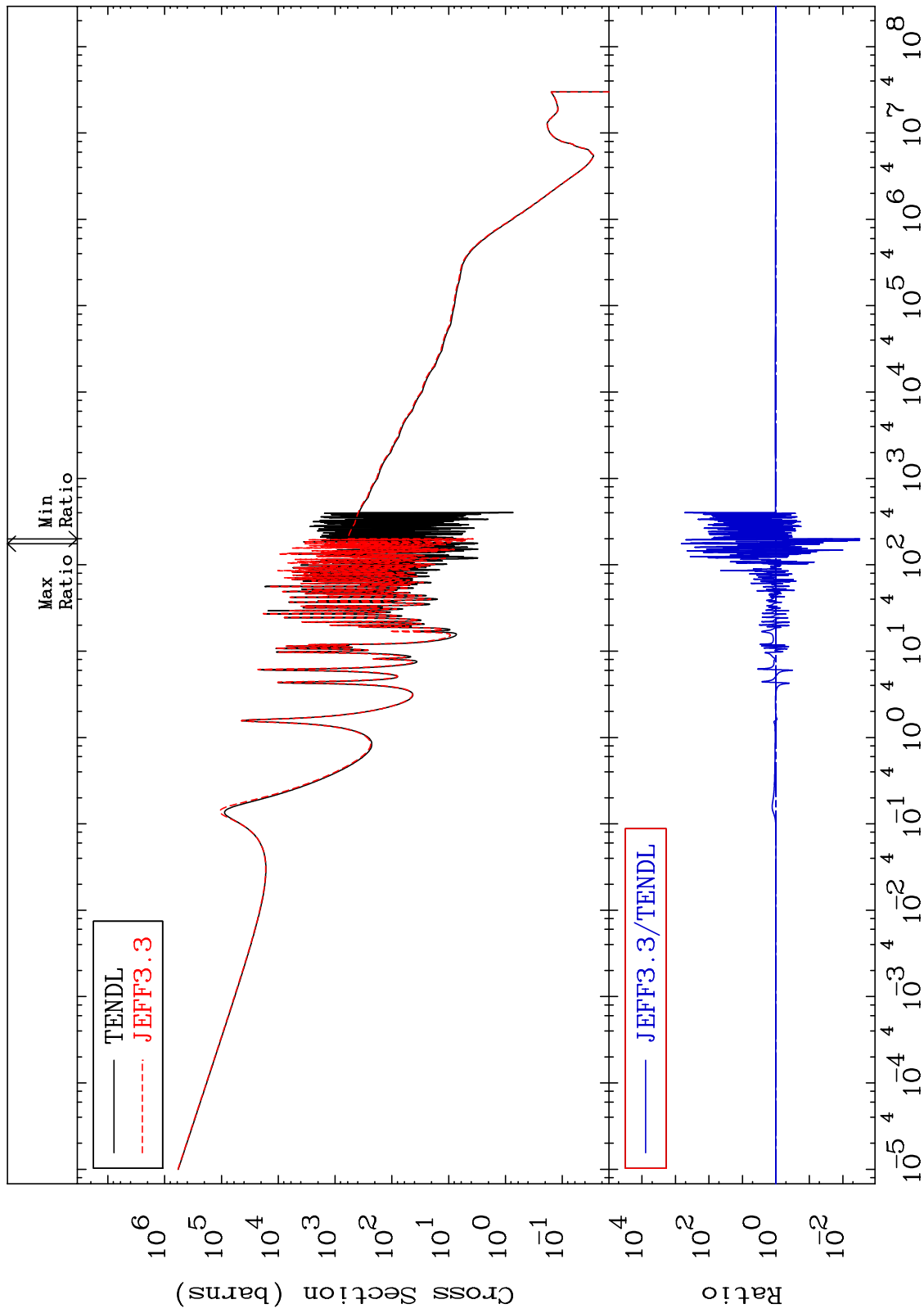
71-Lu-176  
-16.06 To 23.39 %



MAT 7128

Kerma capture (mt102)  
Cross Section

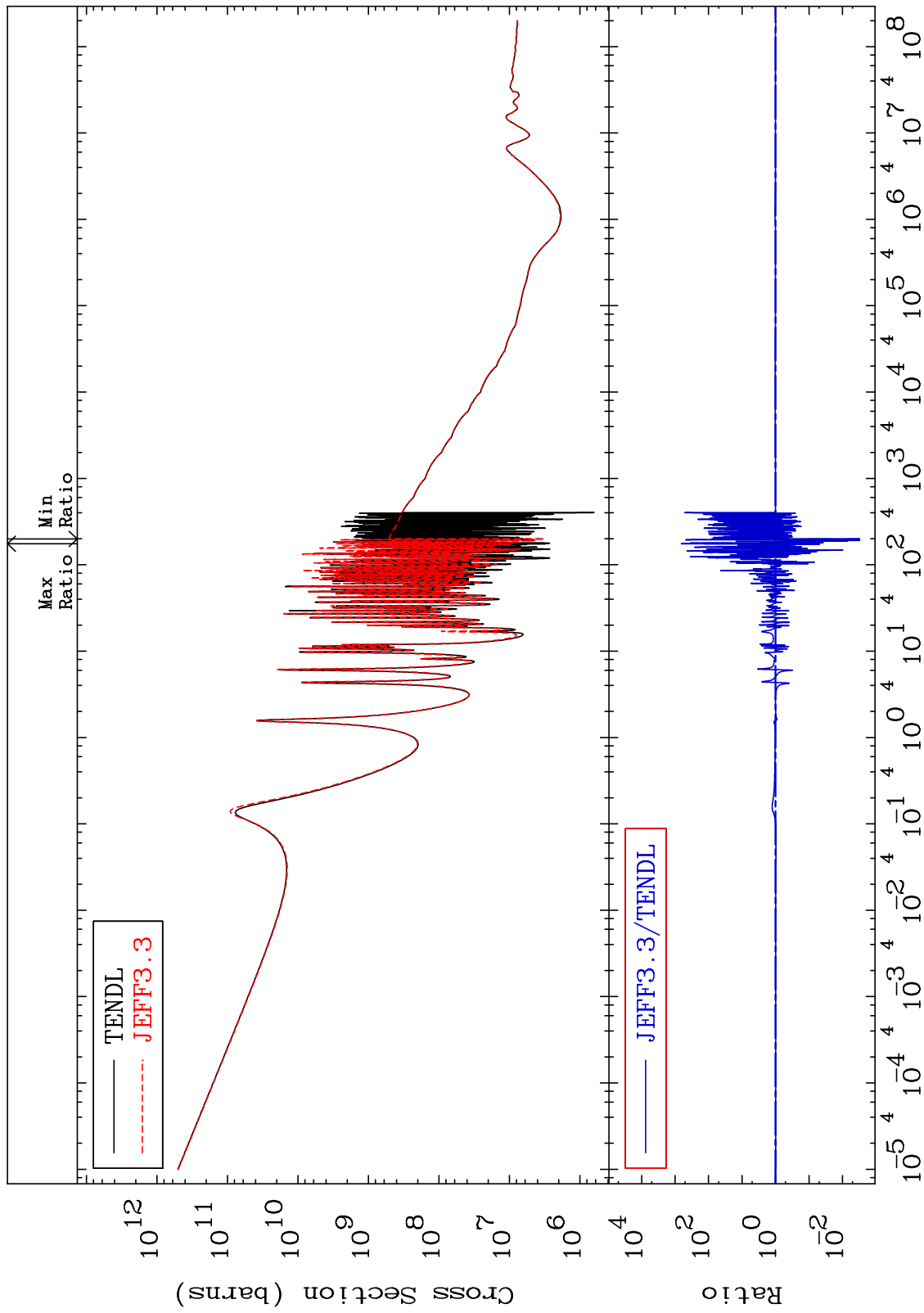
71-Lu-176  
-99.69 To 9999. %



MAT 7128

Total photon (eV-barns)  
Cross Section

71-Lu-176  
-99.70 To 9999. %



70

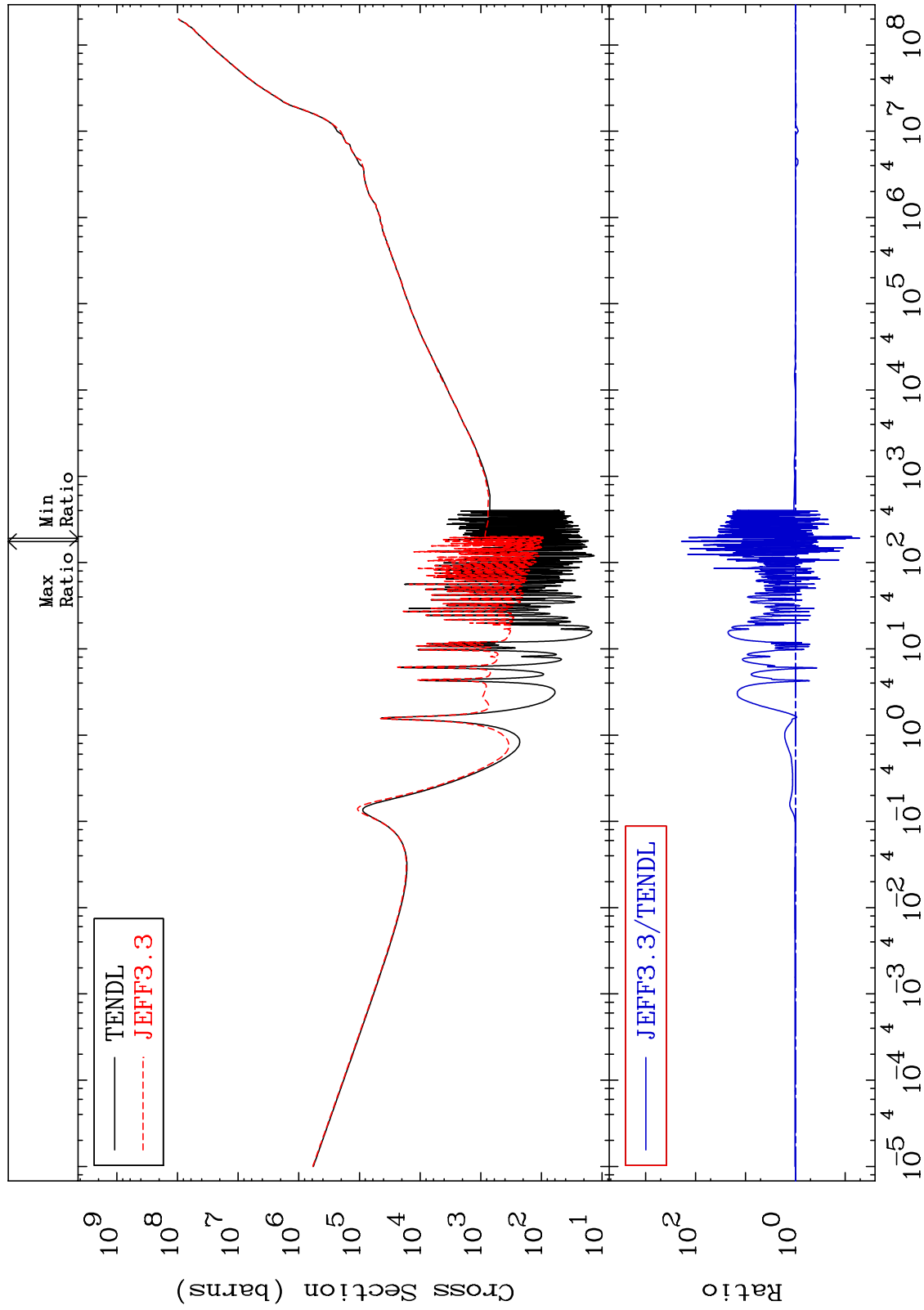
Incident Energy (eV)

71-Lu-176

MAT 7128

Total kinematic kerma (high limit)  
Cross Section

71-Lu-176  
-94.89 To 9999. %



71

Incident Energy (eV)

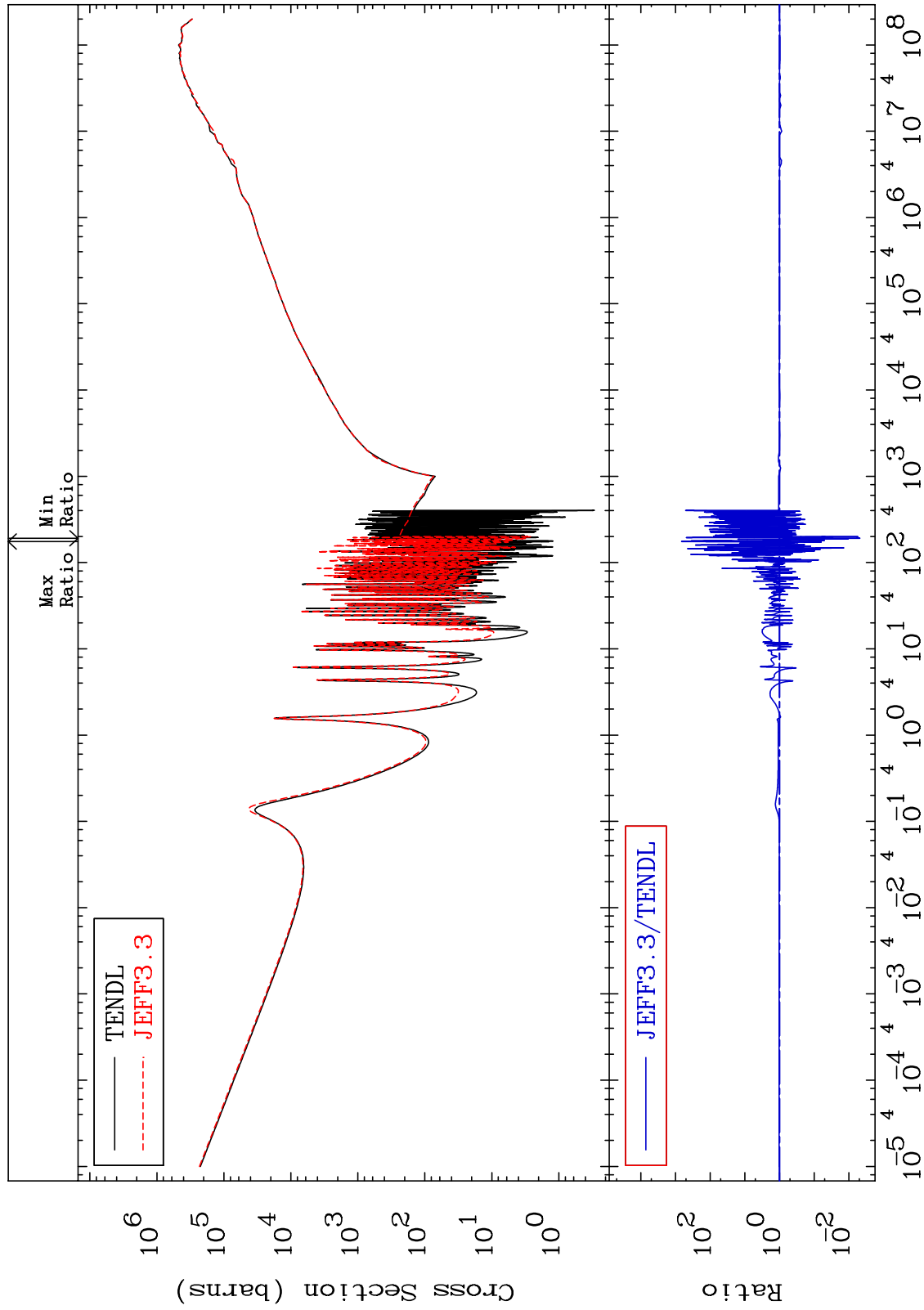
71-Lu-176



MAT 7128

Dpa total (eV-barns)  
Cross Section

71-Lu-176  
-99.51 To 9999. %

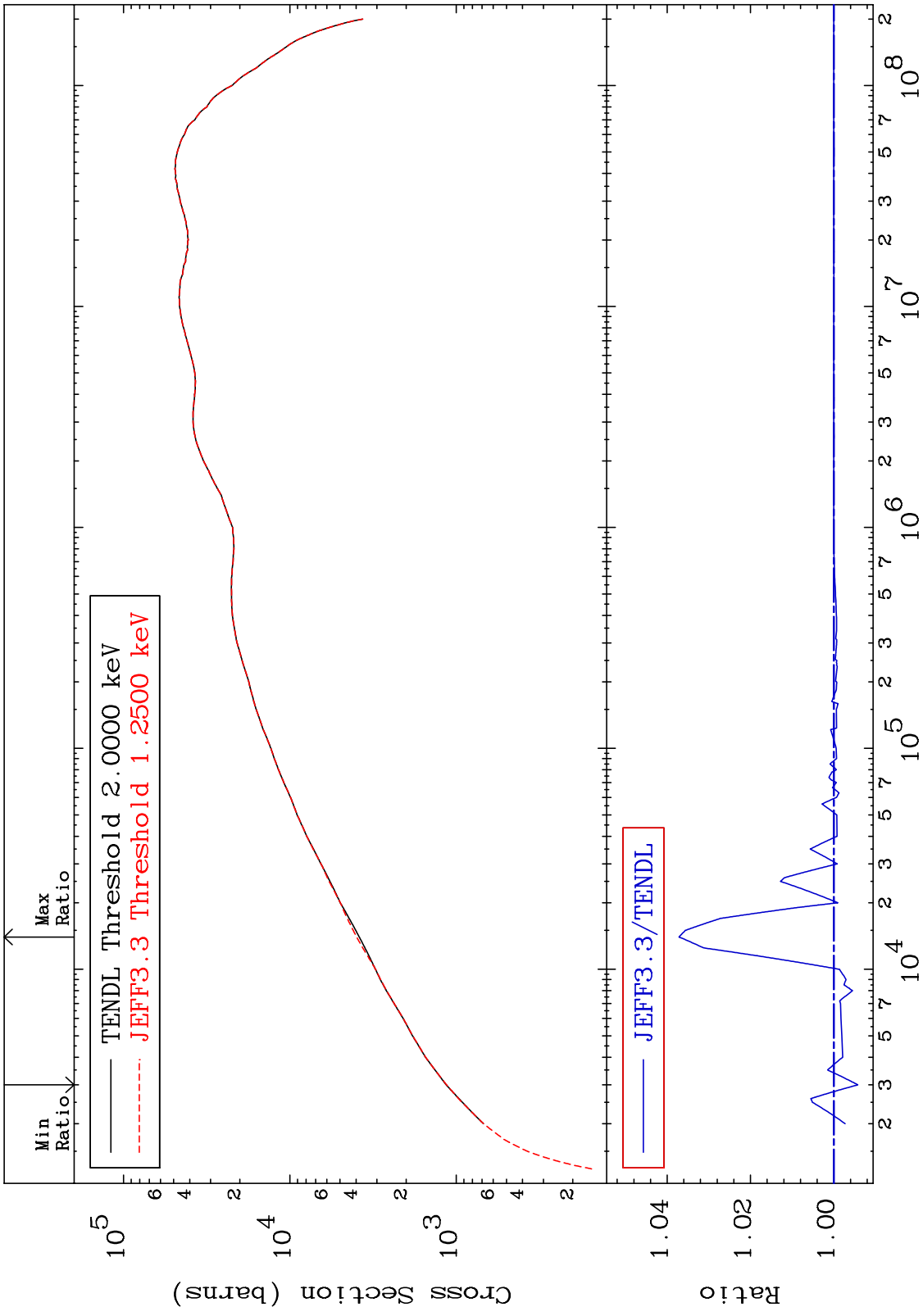


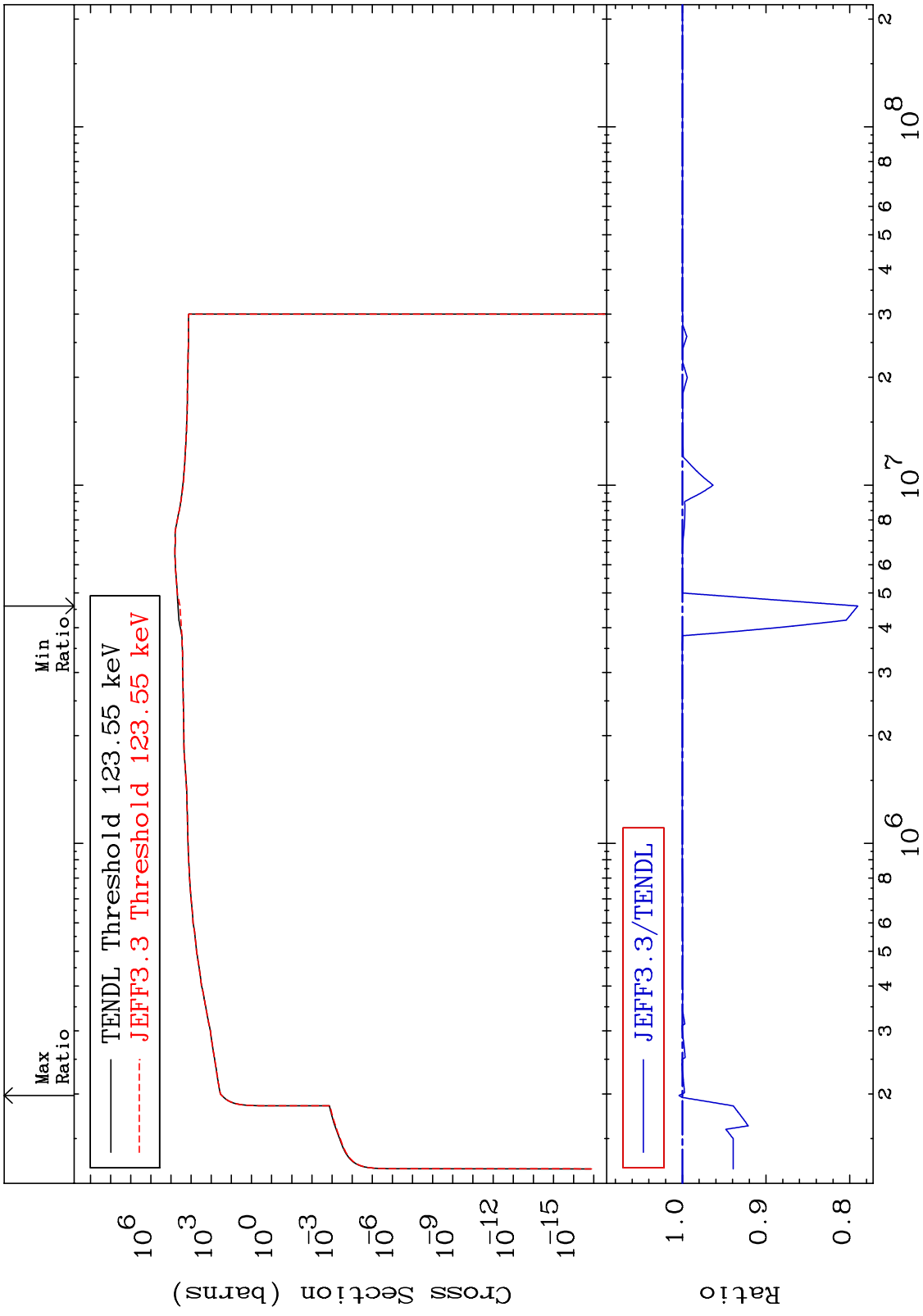
72

Incident Energy (eV)

71-Lu-176

MAT 7128 71-Lu-176  
 Dpa elastic (mt2) -0.576 To 3.715 %  
 Cross Section

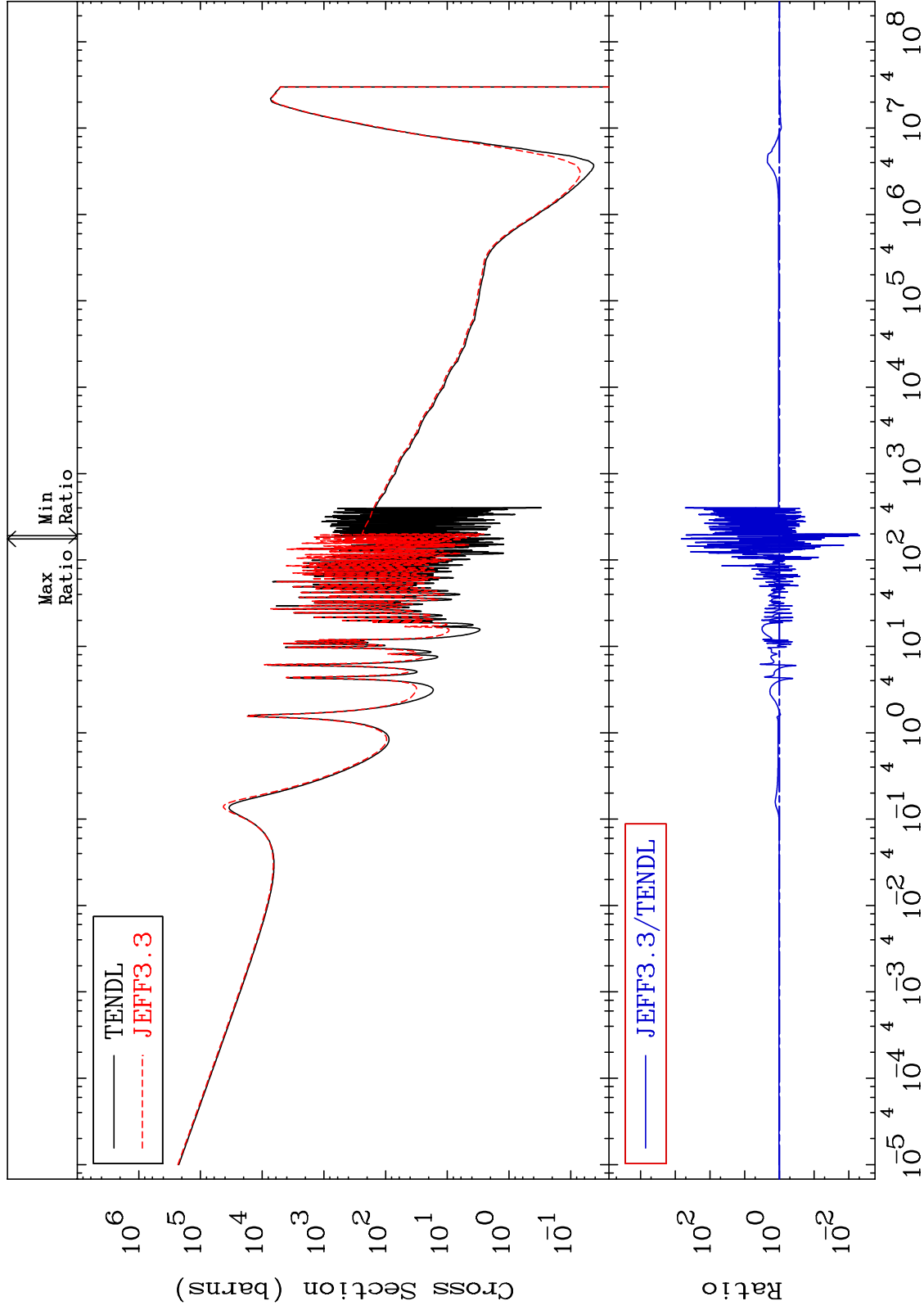




MAT 7128

Dpa disappearance (mt102 -120)  
Cross Section

71-Lu-176  
-99.51 To 9999. %



75

Incident Energy (eV)

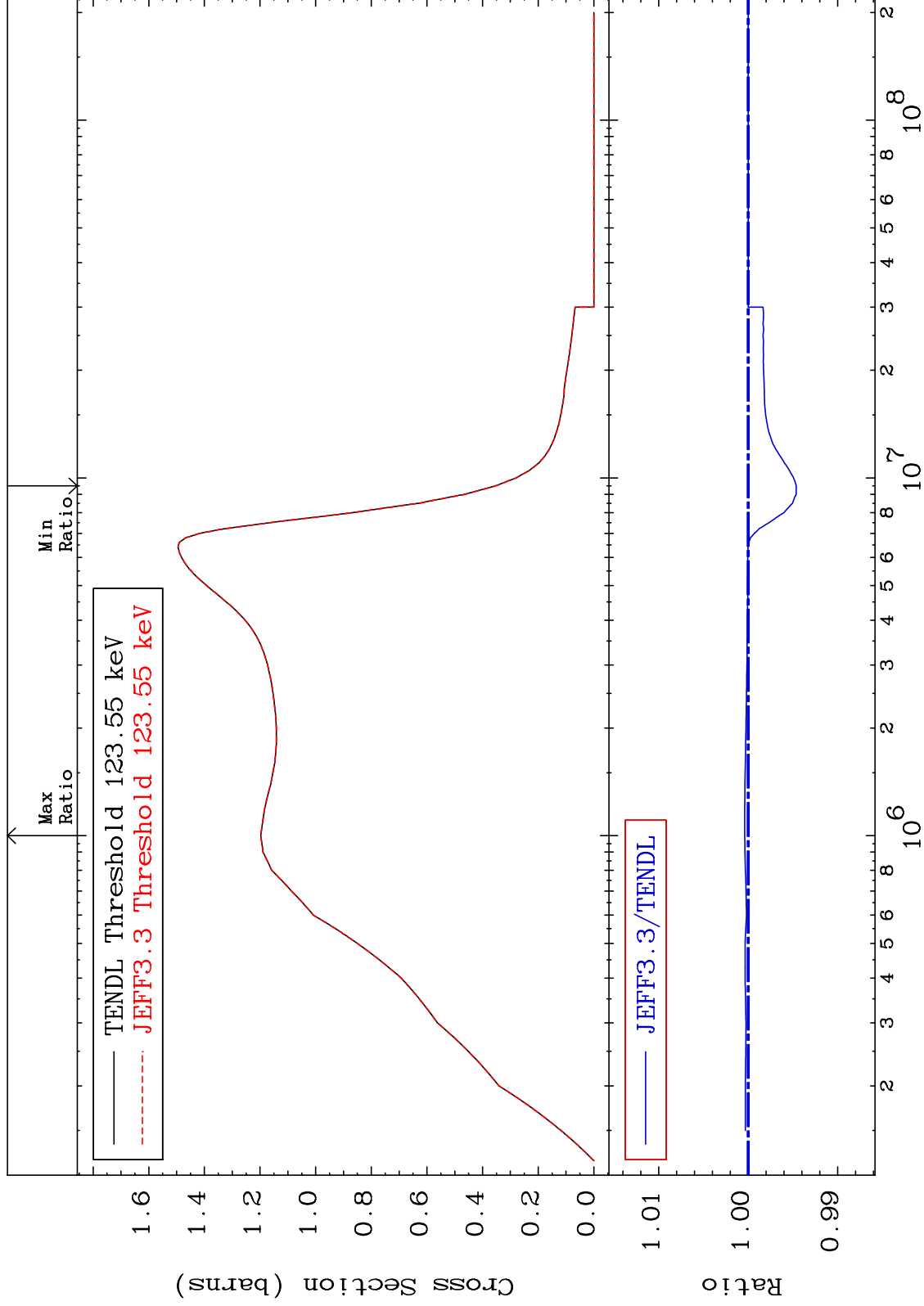
71-Lu-176

MAT 7128

Inelastic:71-Lu-176g

71-Lu-176

Radionuclide Production Cross Section -0.537 To 0.038 %



76

Incident Energy (eV)

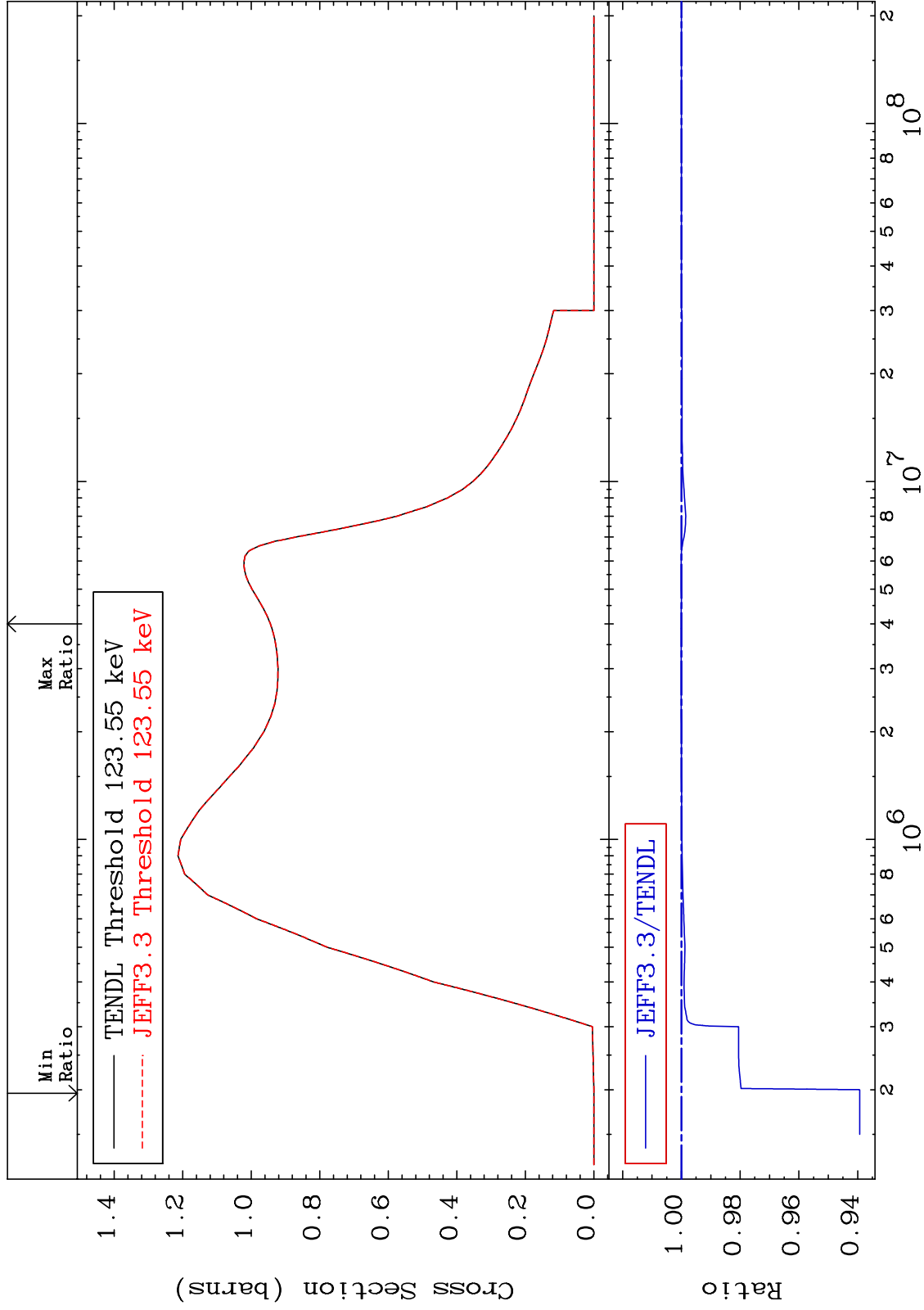
71-Lu-176

MAT 7128

Inelastic: 71-Lu-176m1

71-Lu-176

Radionuclide Production Cross Section -6.072 To 0.005 %



77

Incident Energy (eV)

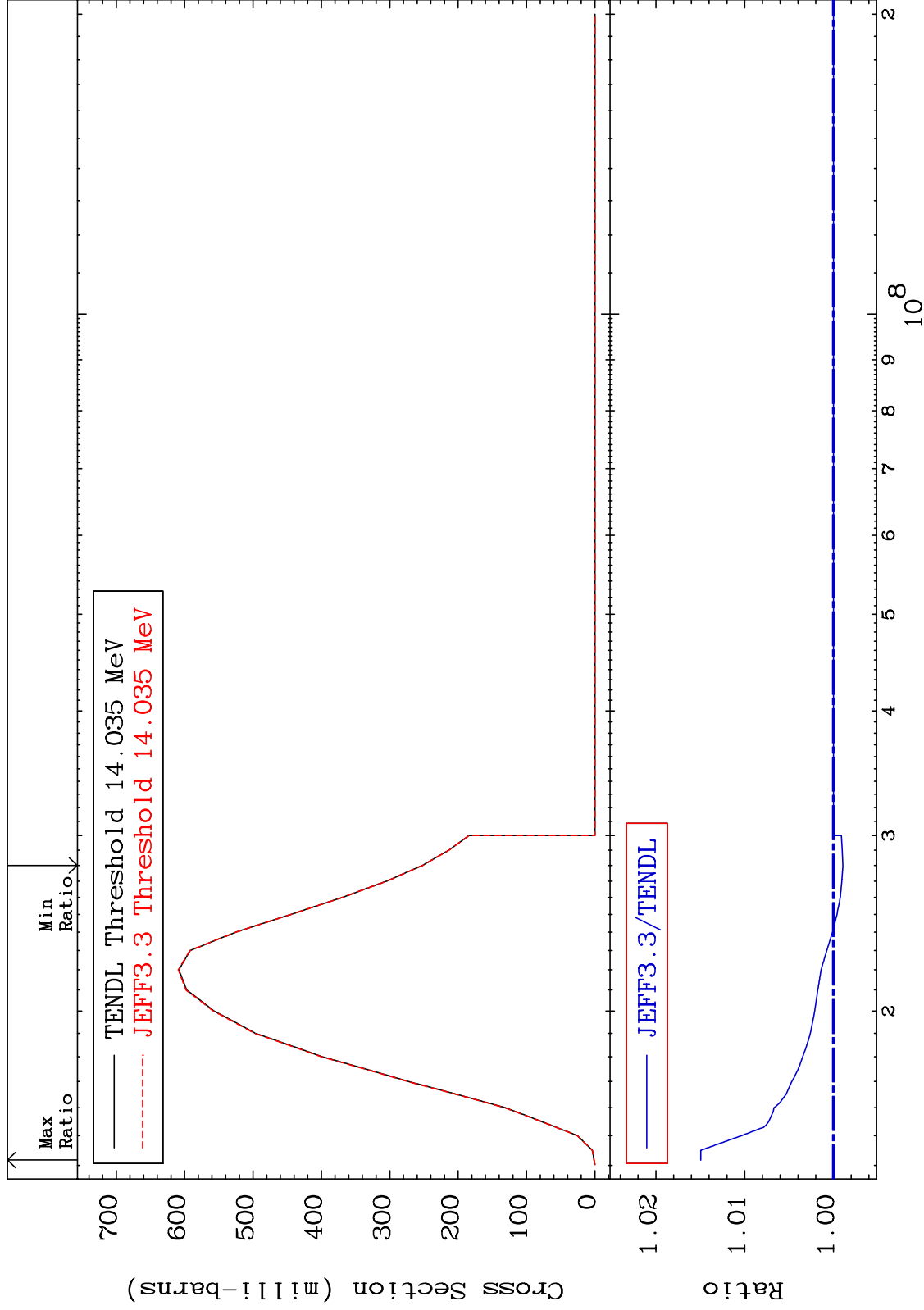
71-Lu-176

MAT 7128

(n,3n):71-Lu-174g

71-Lu-176

Radionuclide Production Cross Section -0.107 To 1.494 %



78

Incident Energy (eV)

71-Lu-176

MAT 7128

(n, 3n) : 71-Lu-174m3

71-Lu-176

Radionuclide Production Cross Section -0.135 To 2.162 %

