

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

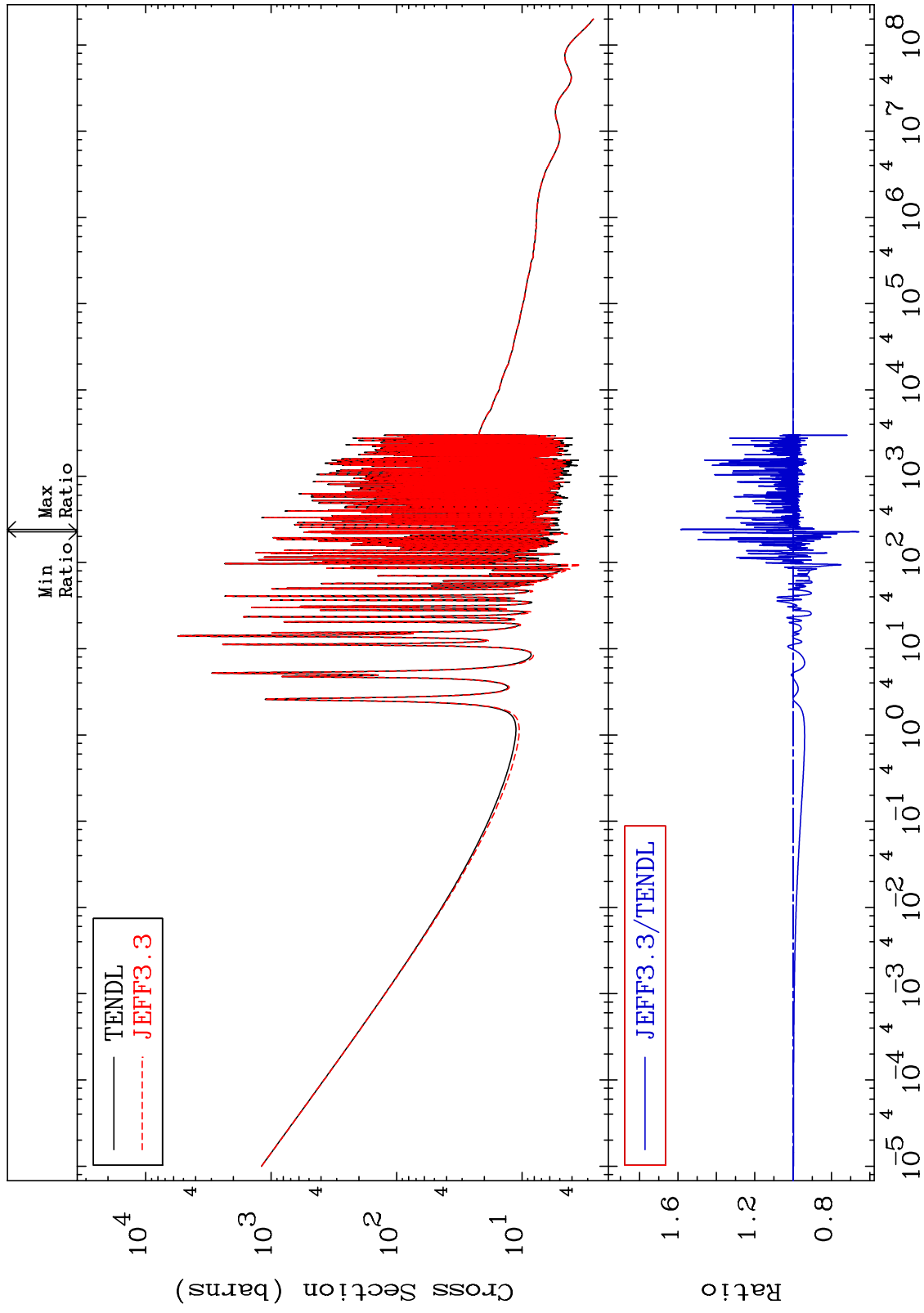
MAT 7125

Total

71-Lu-175

Cross Section

-34.33 To 58.58 %



1

Incident Energy (eV)

71-Lu-175

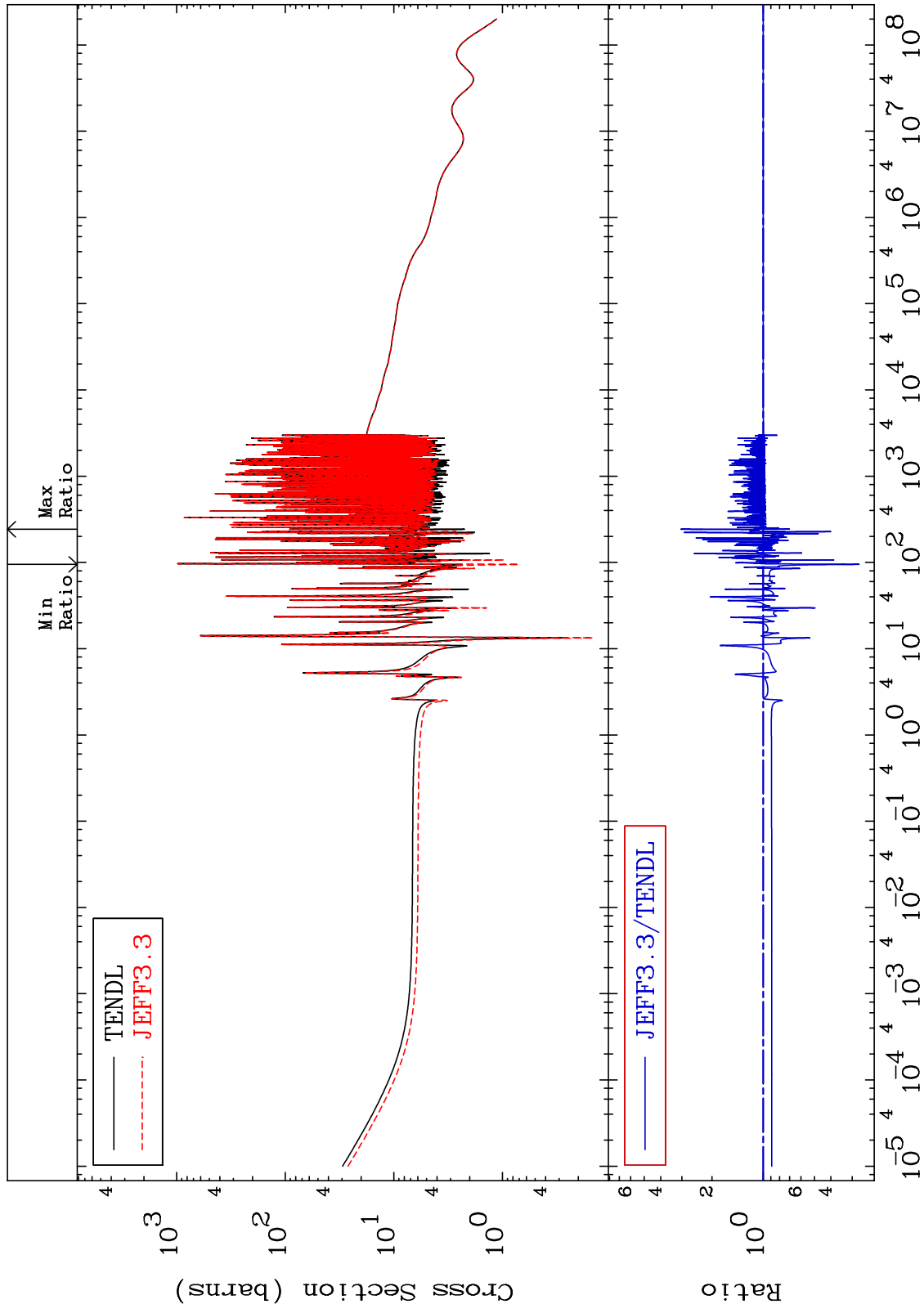
MAT 7125

Elastic

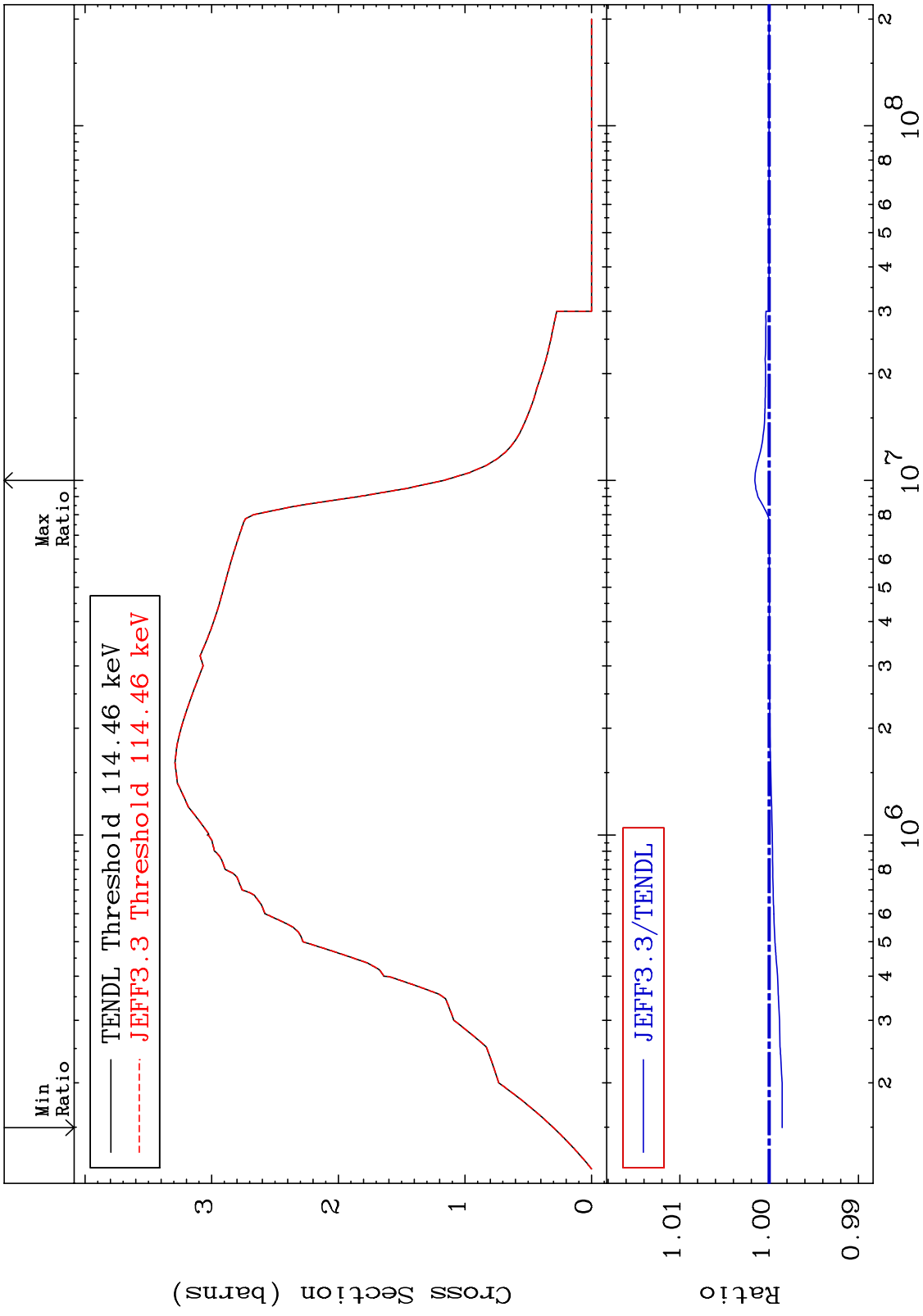
71-Lu-175

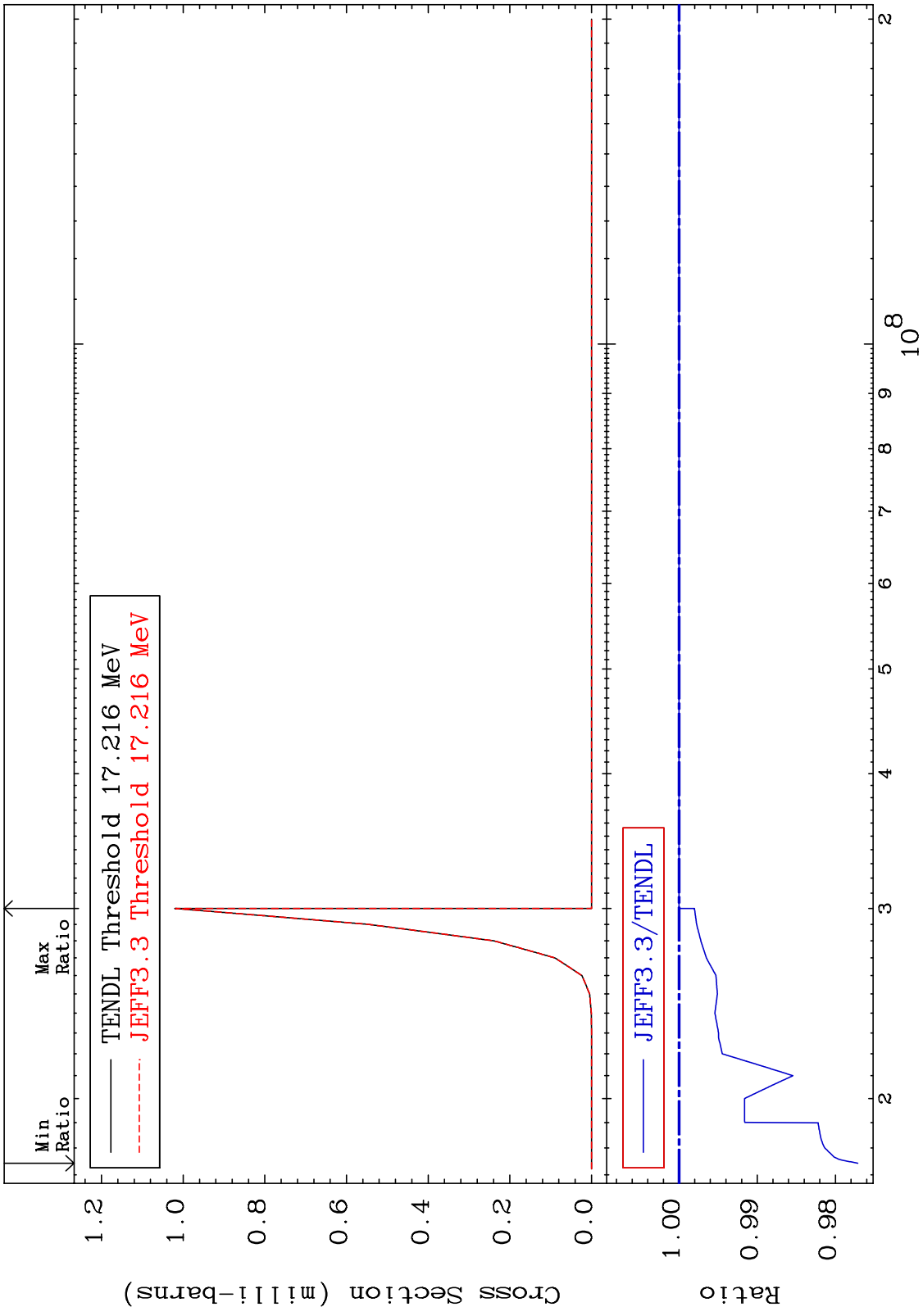
Cross Section

-72.66 To 205.4 %

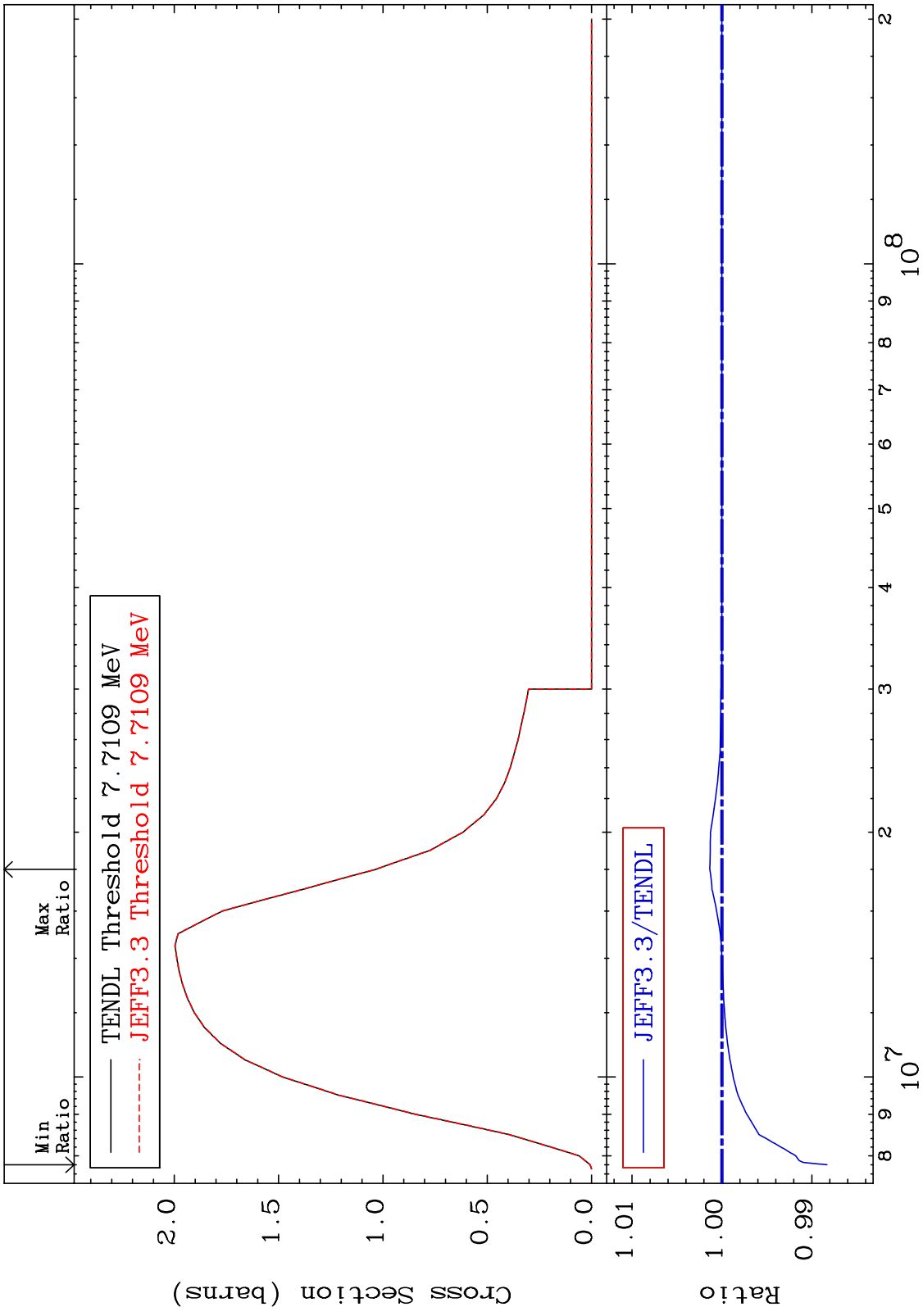


MAT 7125 71-Lu-175 Inelastic Cross Section -0.145 To 0.161 % 71-Lu-175



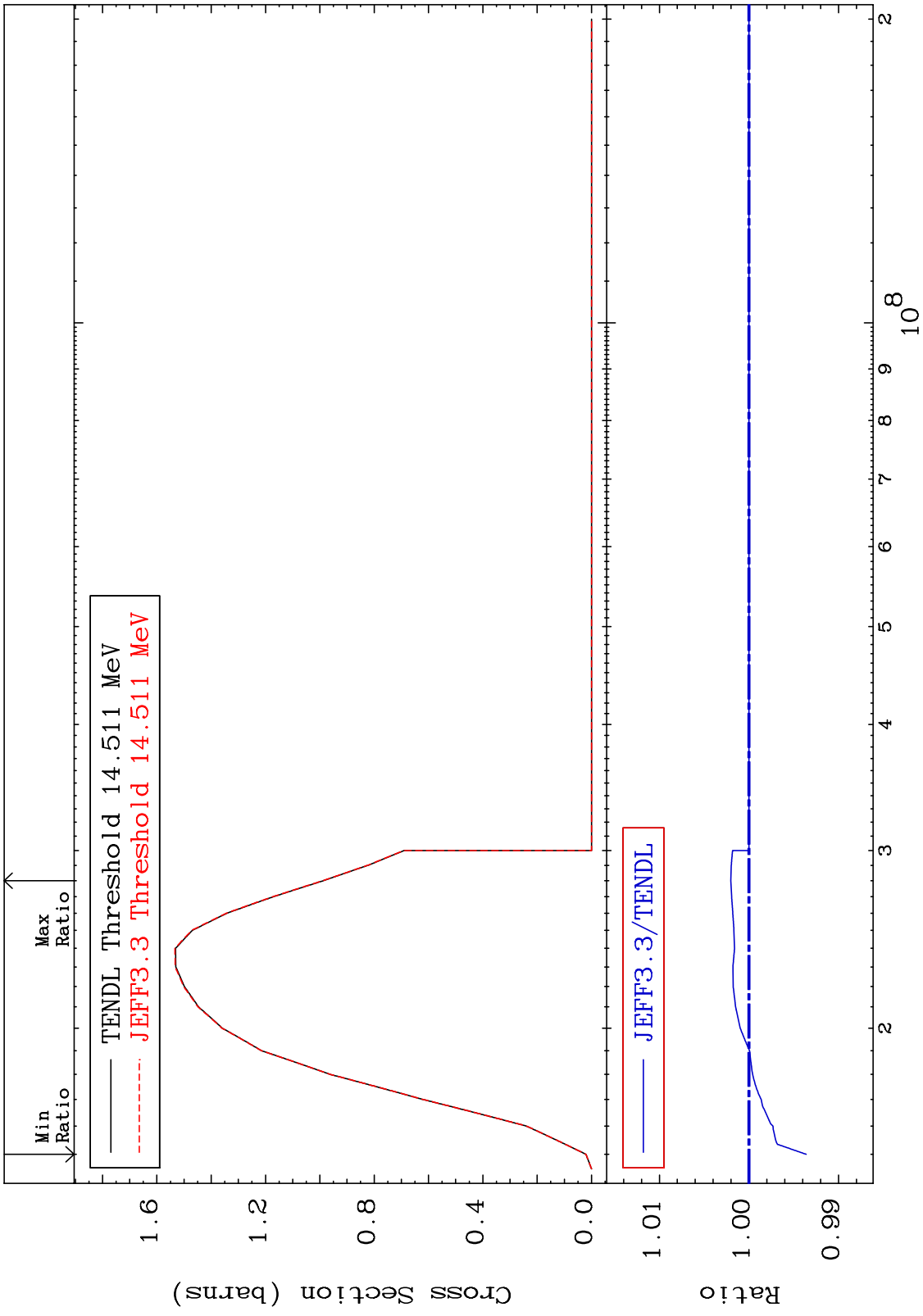


MAT 7125 (n,2n) 71-Lu-175  
 Cross Section -1.170 To 0.134 %



5 Incident Energy (eV) 71-Lu-175

MAT 7125 (n,3n) 71-Lu-175  
Cross Section -0.638 To 0.204 %



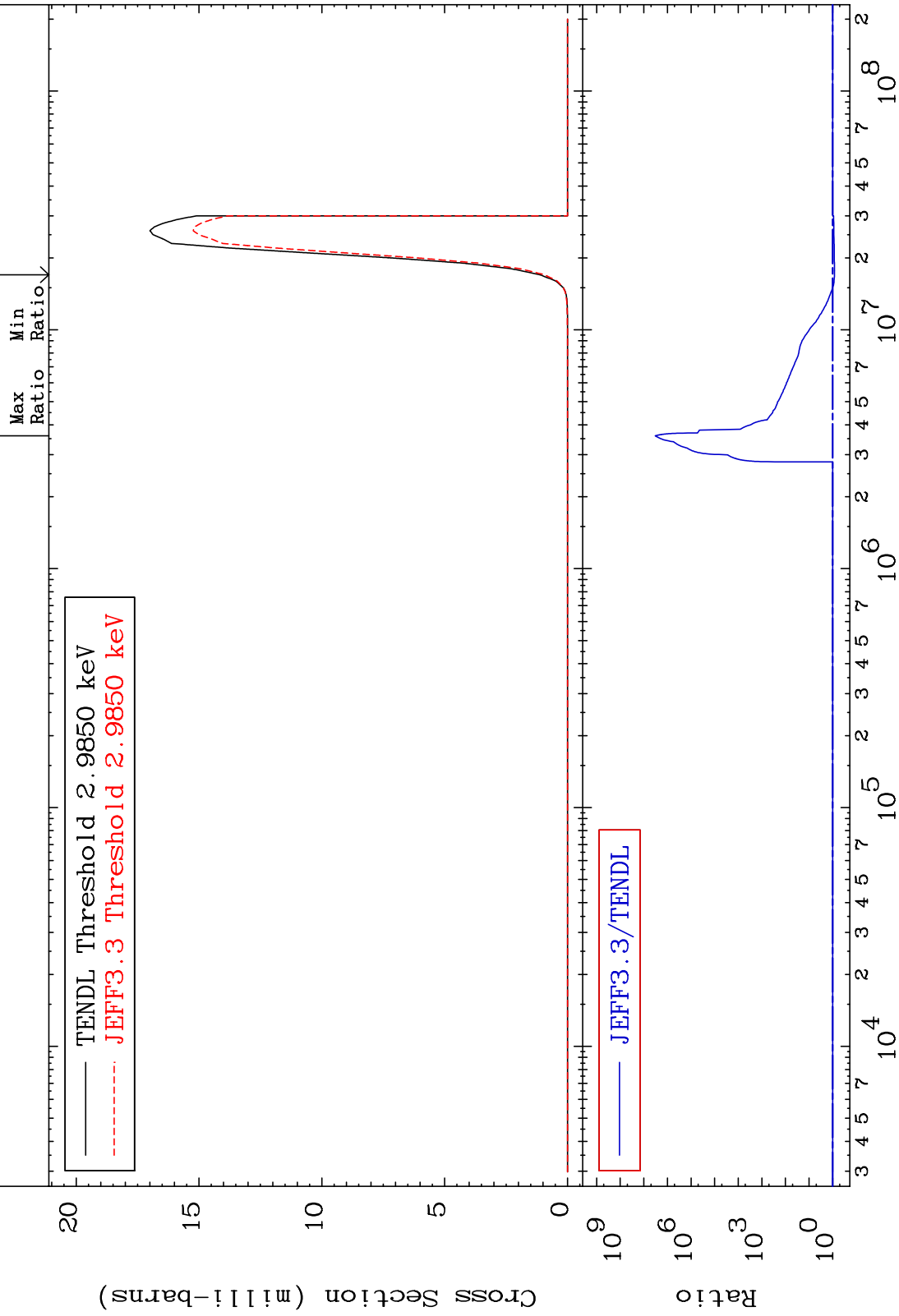
MAT 7125

$(n, n') \alpha$

71-Lu-175

-16.18 To 9999. %

Cross Section

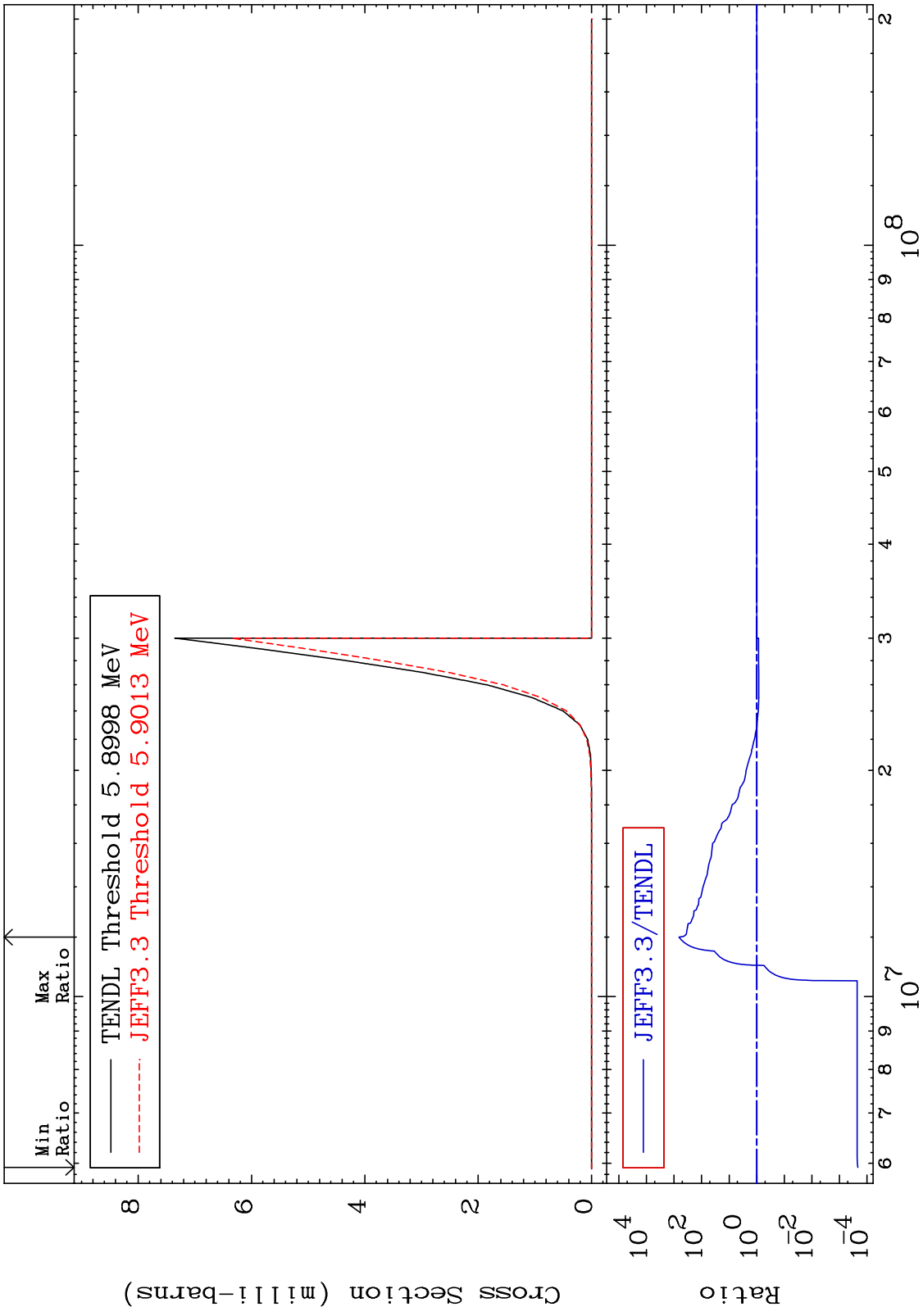


7

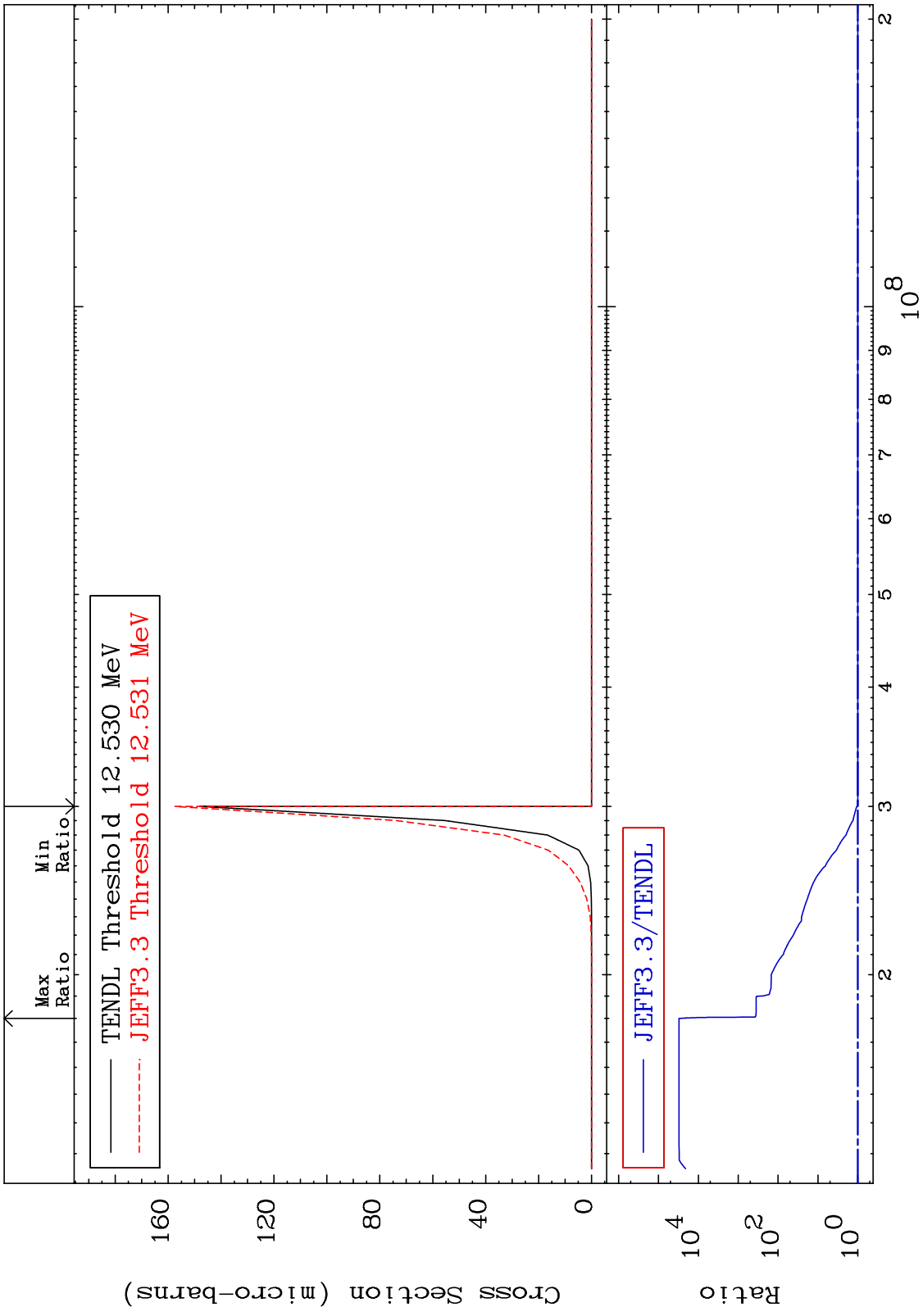
Incident Energy (eV)

71-Lu-175

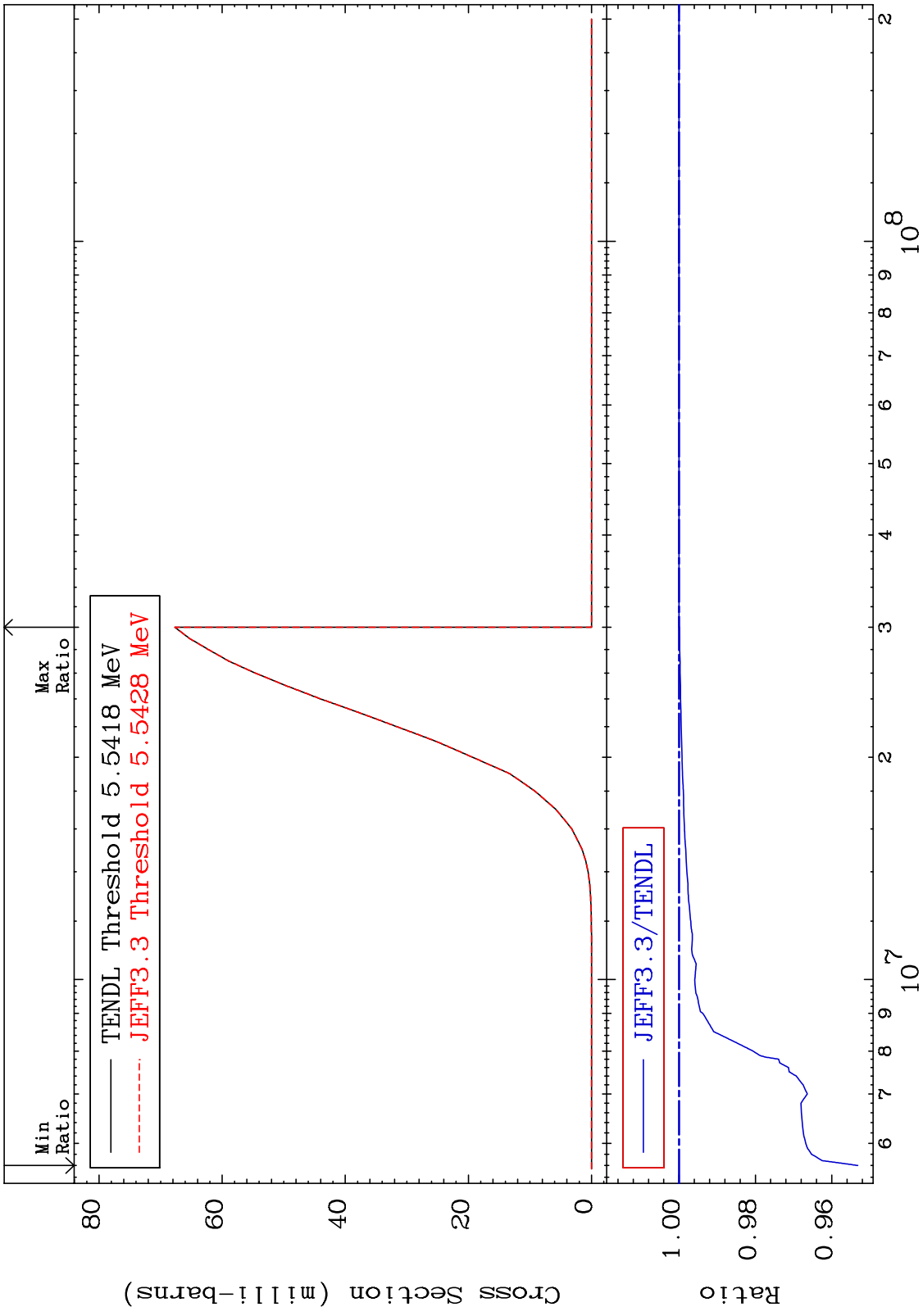
MAT 7125 71-Lu-175  
(n,2n)  $\alpha$   
Cross Section  
-99.98 To 9999. %



MAT 7125  $(n, 3n) \alpha$  71-Lu-175  
 Cross Section 0.000 To 9999. %

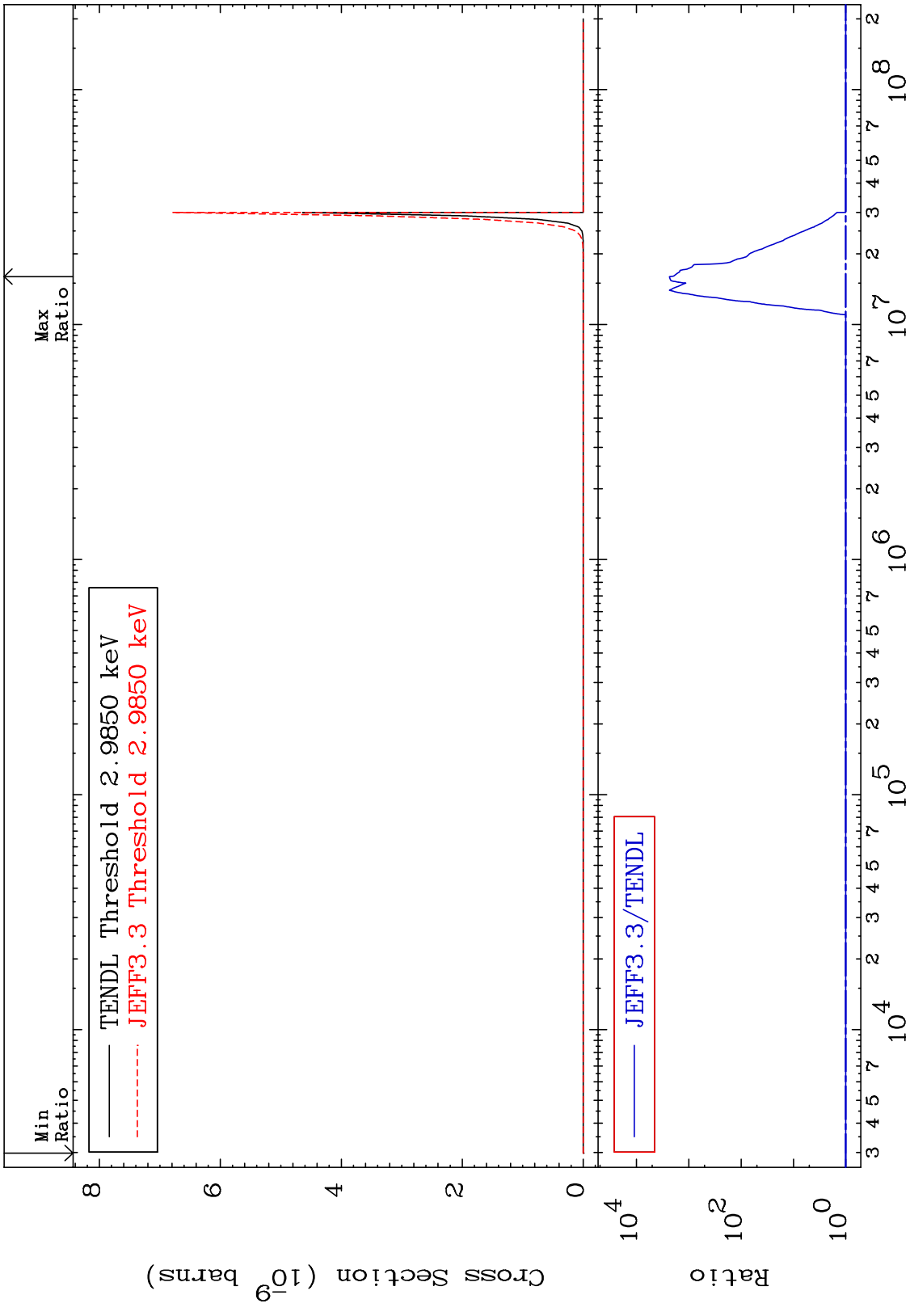


MAT 7125  $(n, n')$  p  $^{71}\text{Lu-175}$   
Cross Section -4.683 To 0.000 %

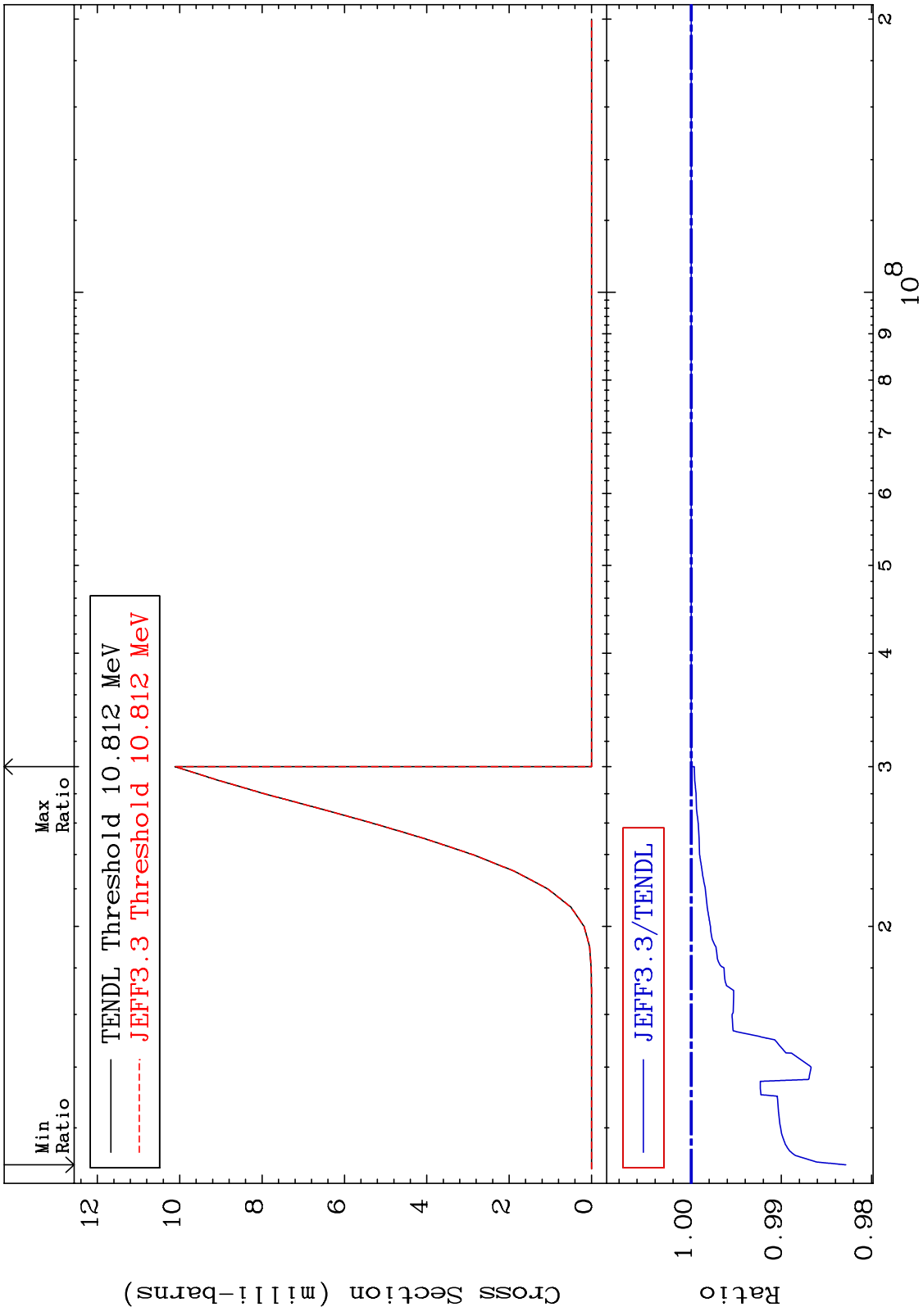


10

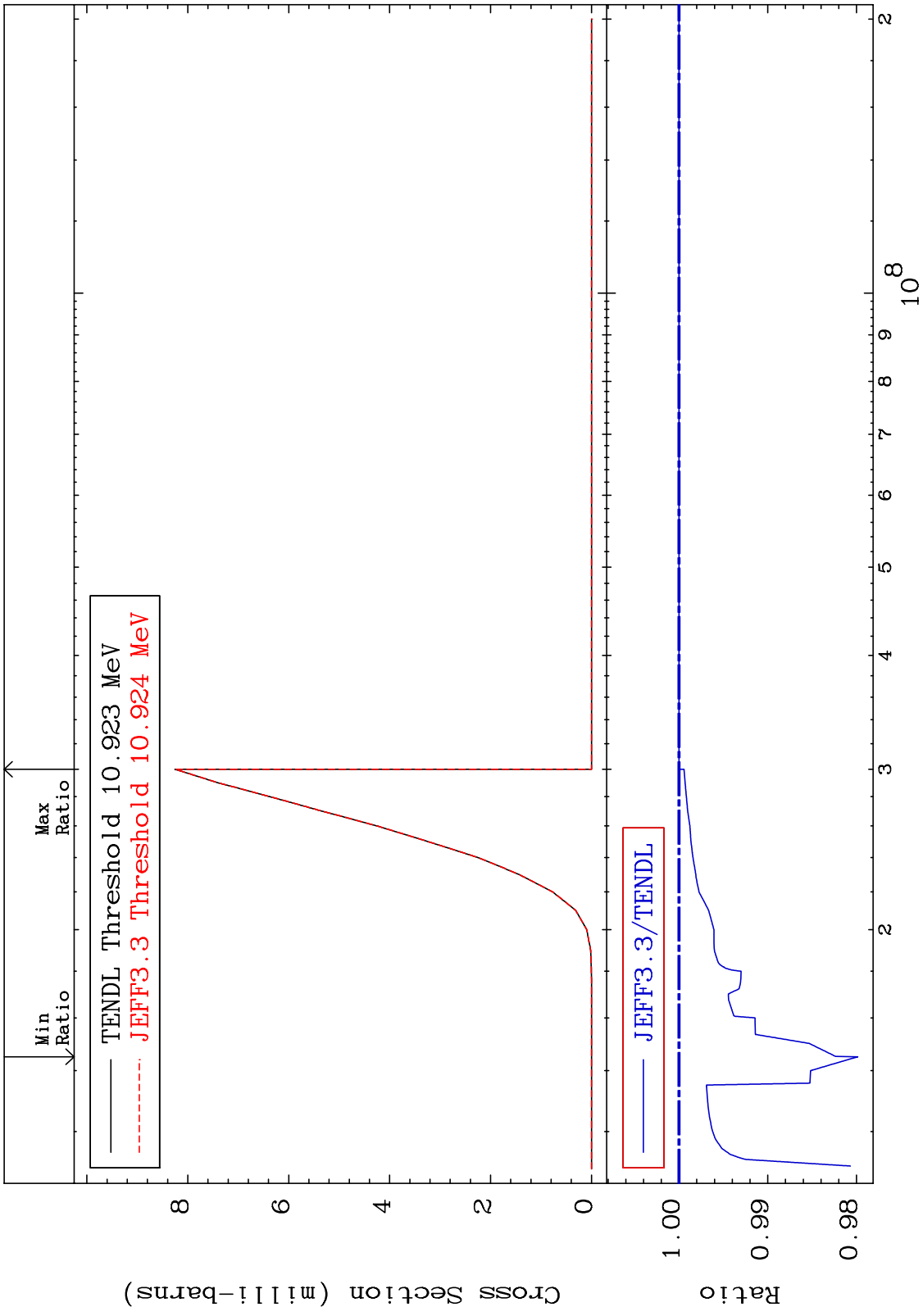
MAT 7125 (n,n') 2α Cross Section 71-Lu-175 To 9999. %



MAT 7125  $(n, n')$  d  $^{71}\text{Lu-175}$   
 Cross Section -1.714 To 0.000 %

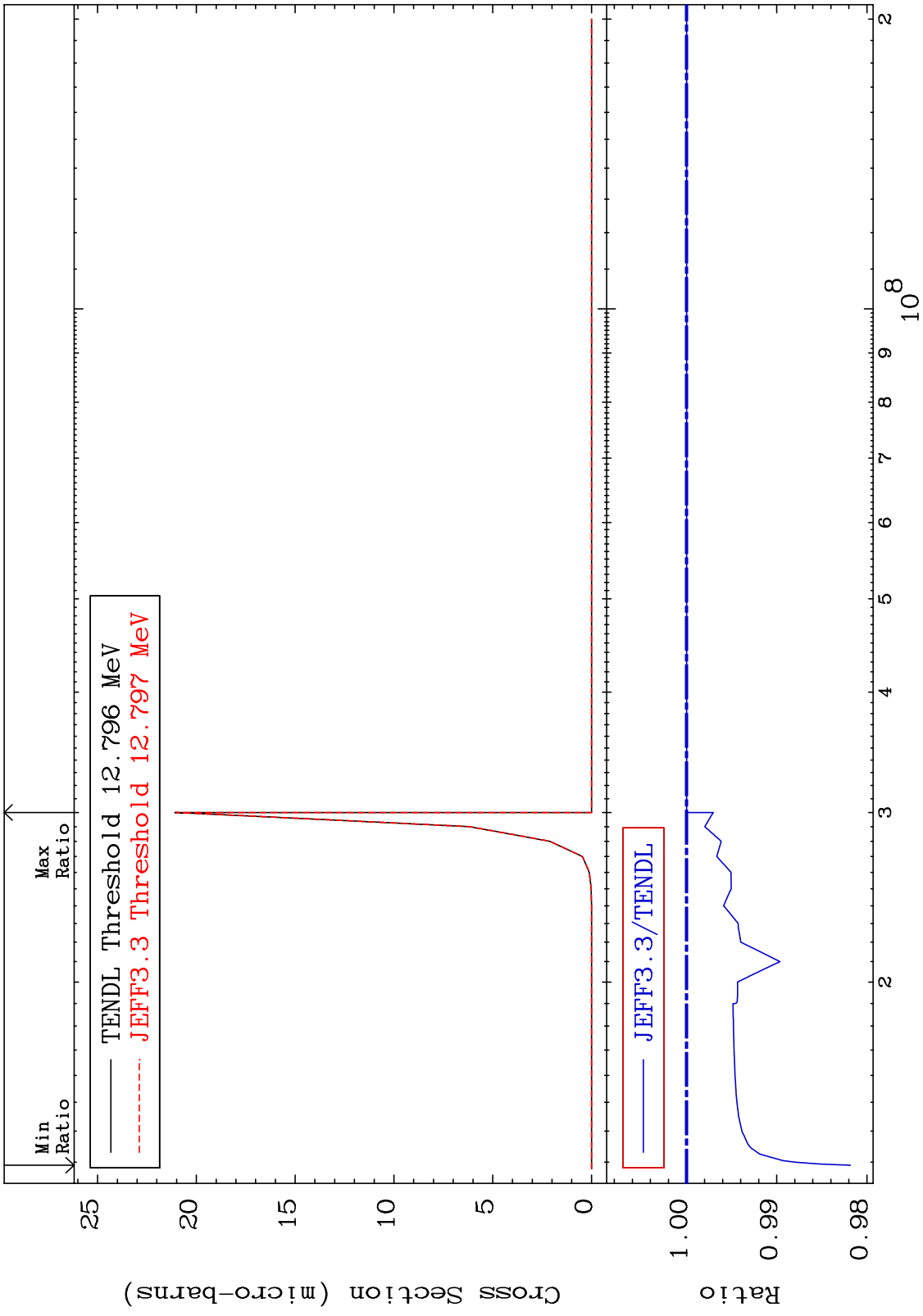


MAT 7125  $(n, n')$  t  $^{71}\text{Lu-175}$   
 Cross Section -2.015 To 0.000 %

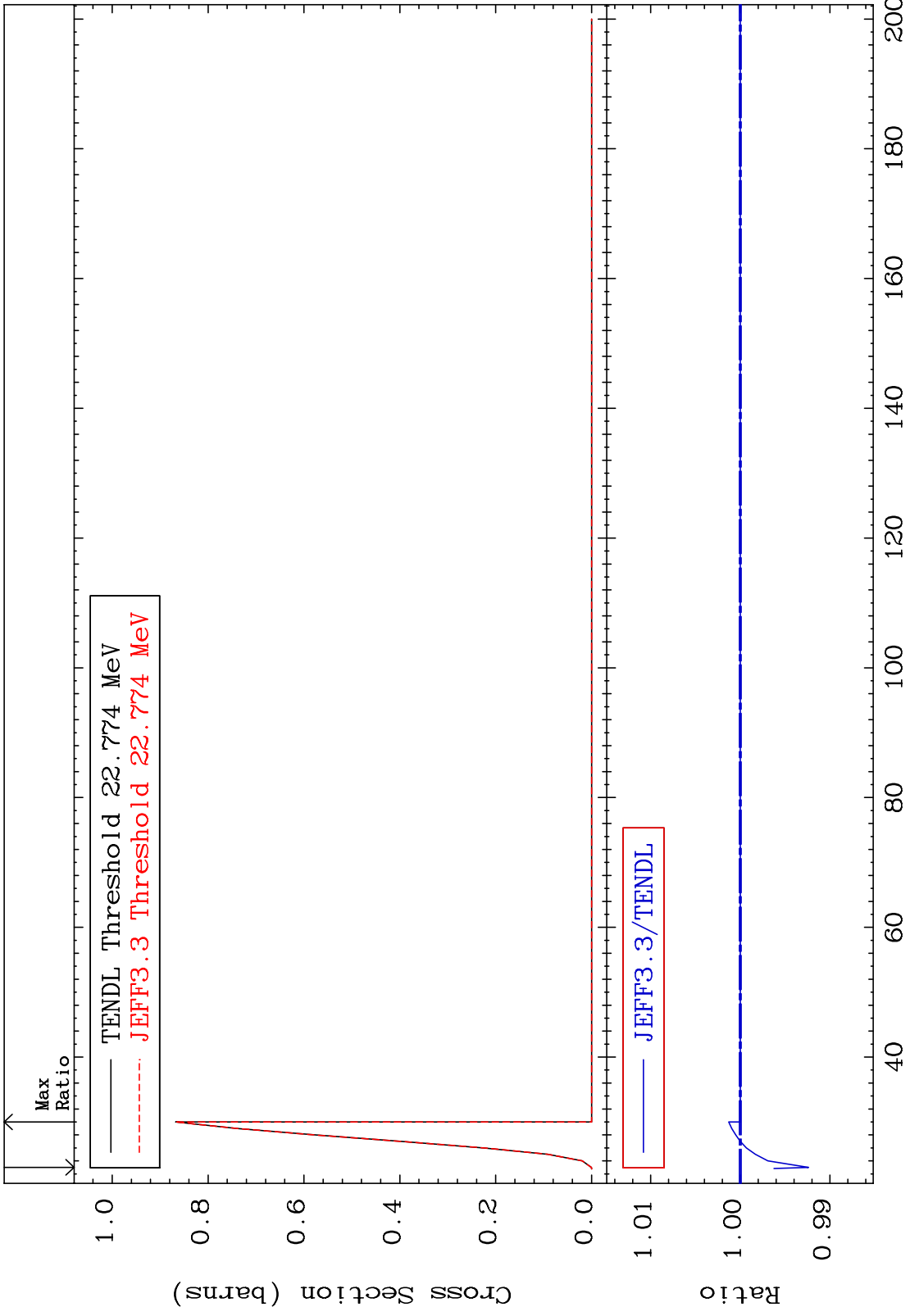


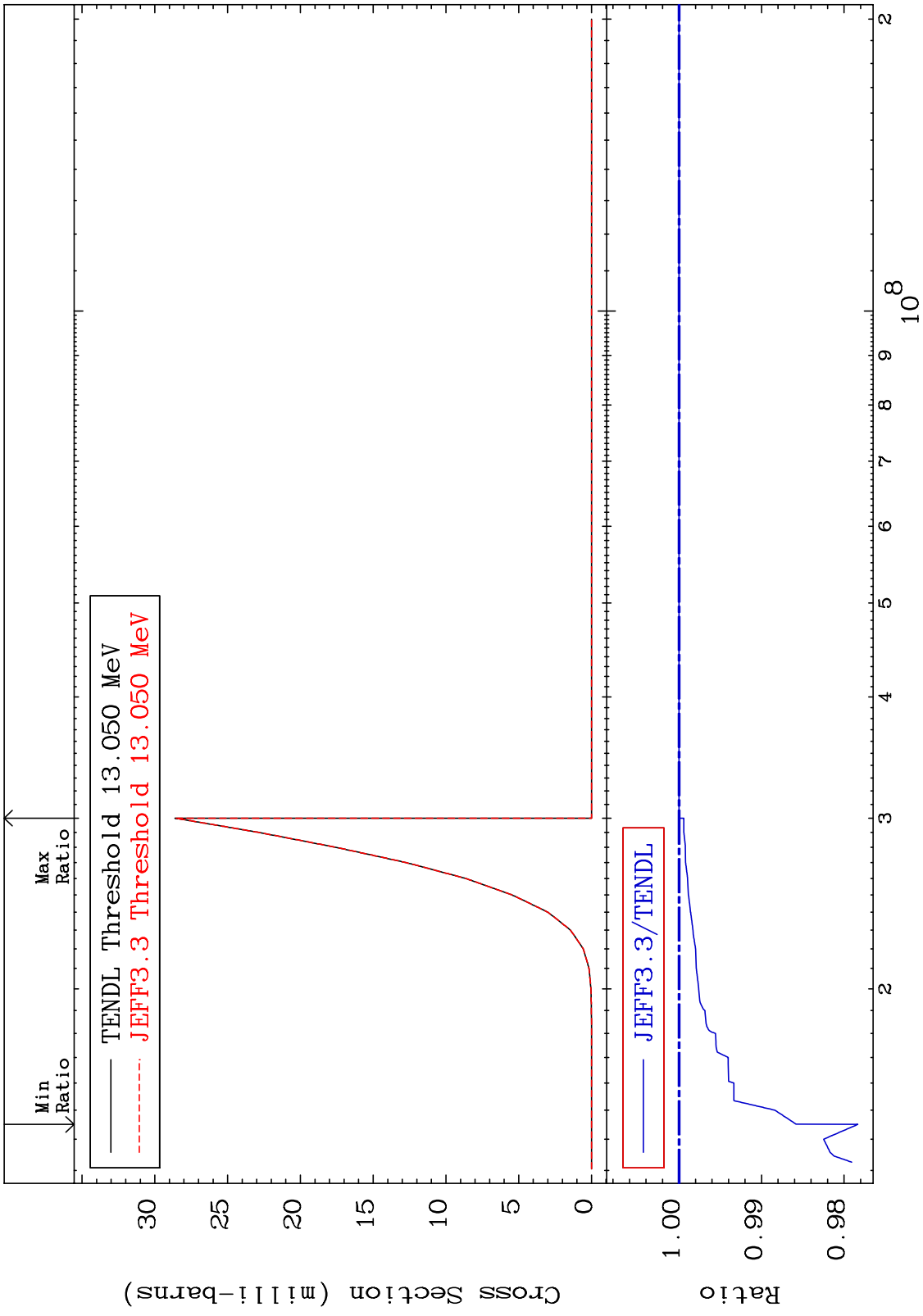
13 71-Lu-175

MAT 7125 (n, n') He-3 71-Lu-175  
 Cross Section -1.816 To 0.000 %

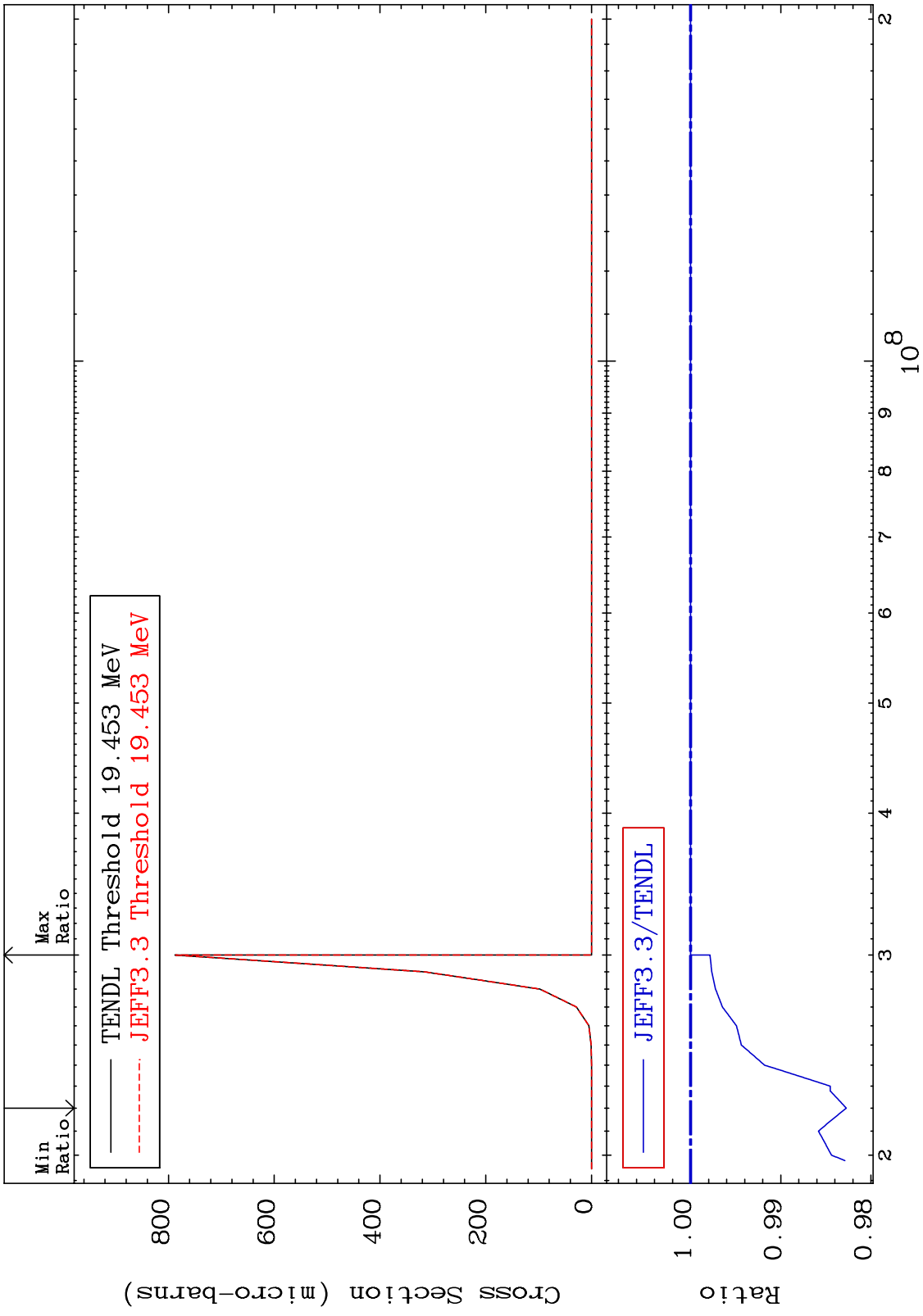


MAT 7125  $(n,4n)$  Cross Section  $^{71}\text{Lu}-175$   $-0.760$  To  $0.130$  %

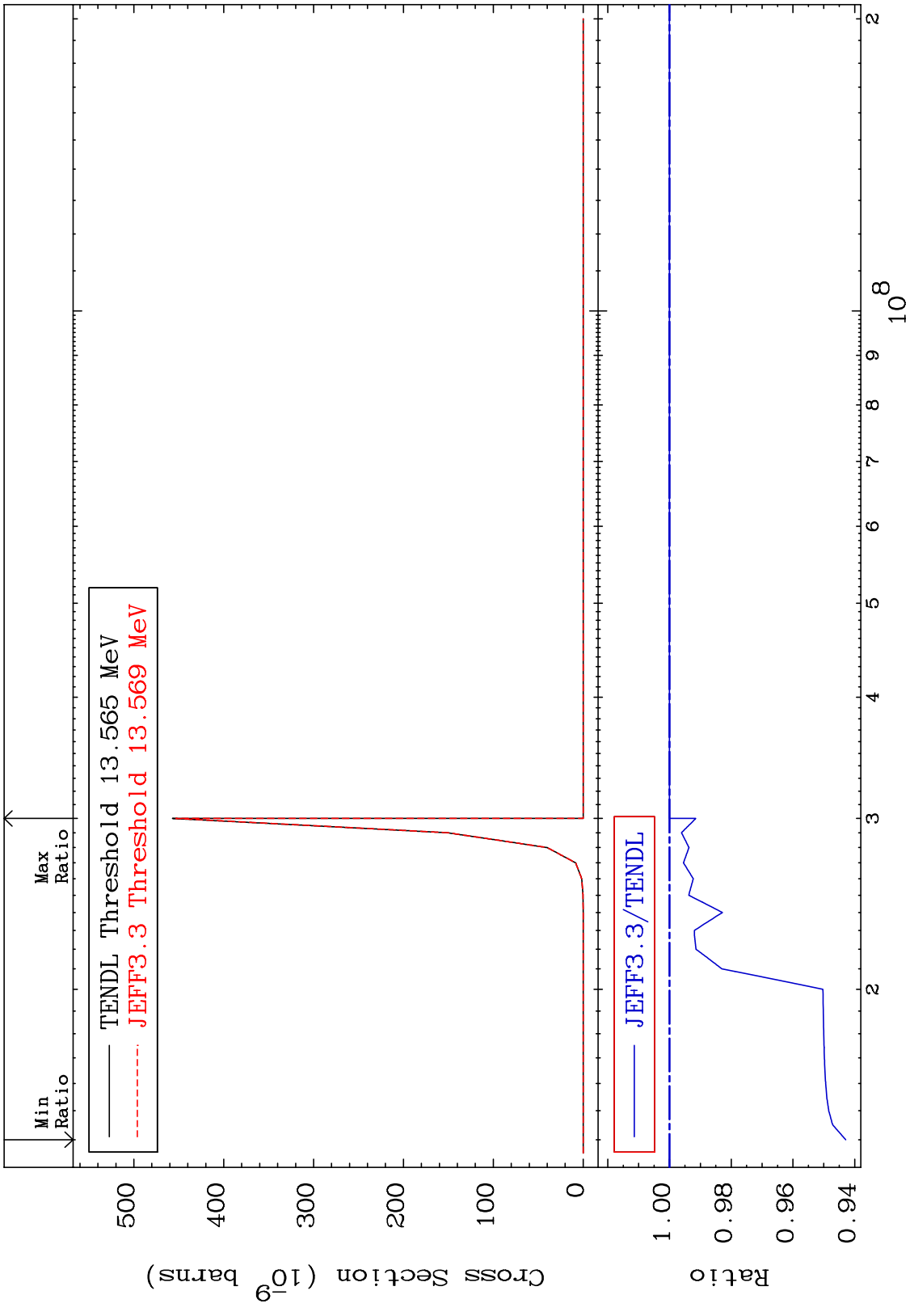




MAT 7125 (n,3n) p 71-Lu-175  
 Cross Section -1.727 To 0.000 %



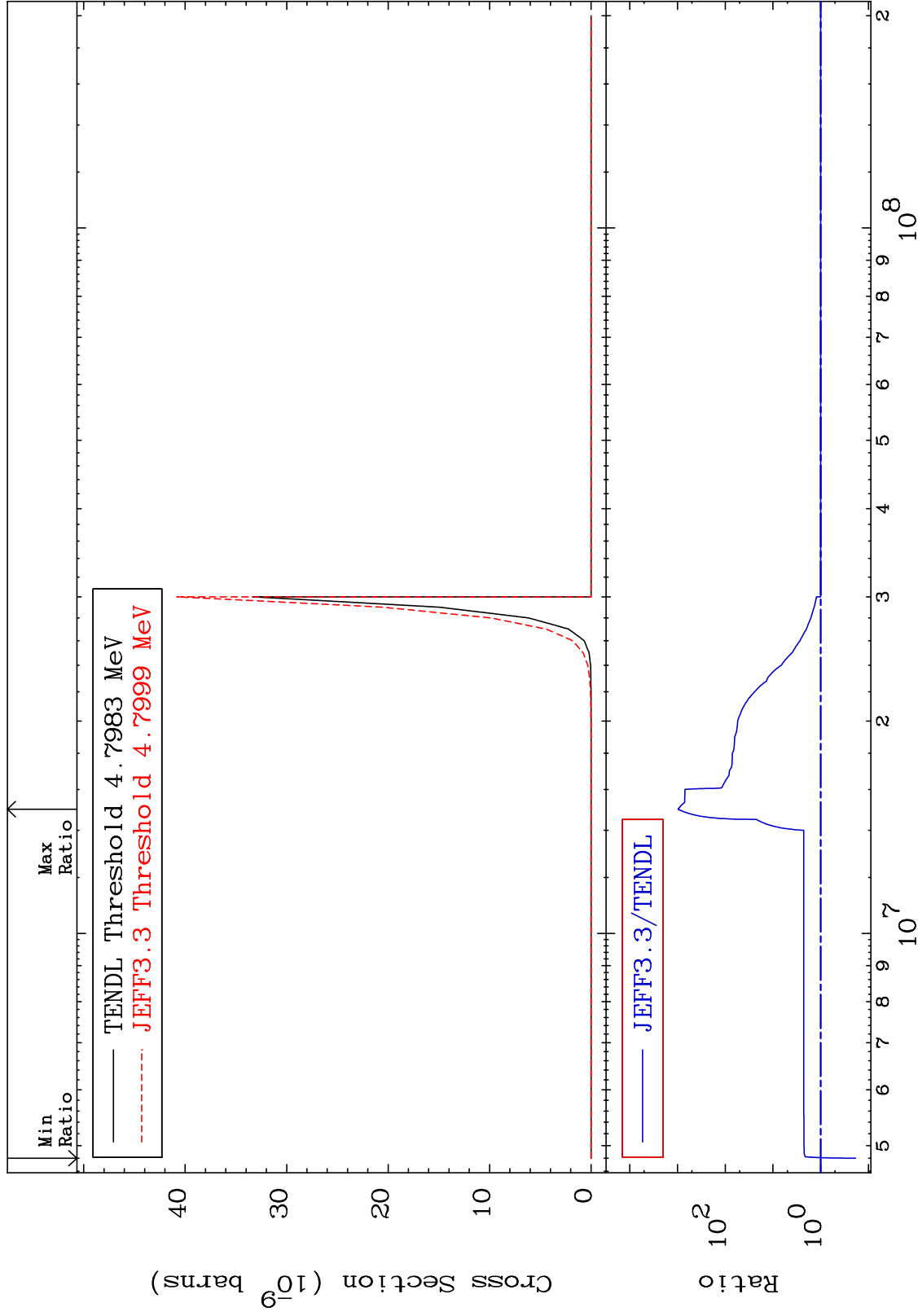
MAT 7125 71-Lu-175  
 (n,2n) p -5.711 To 0.000 %  
 Cross Section



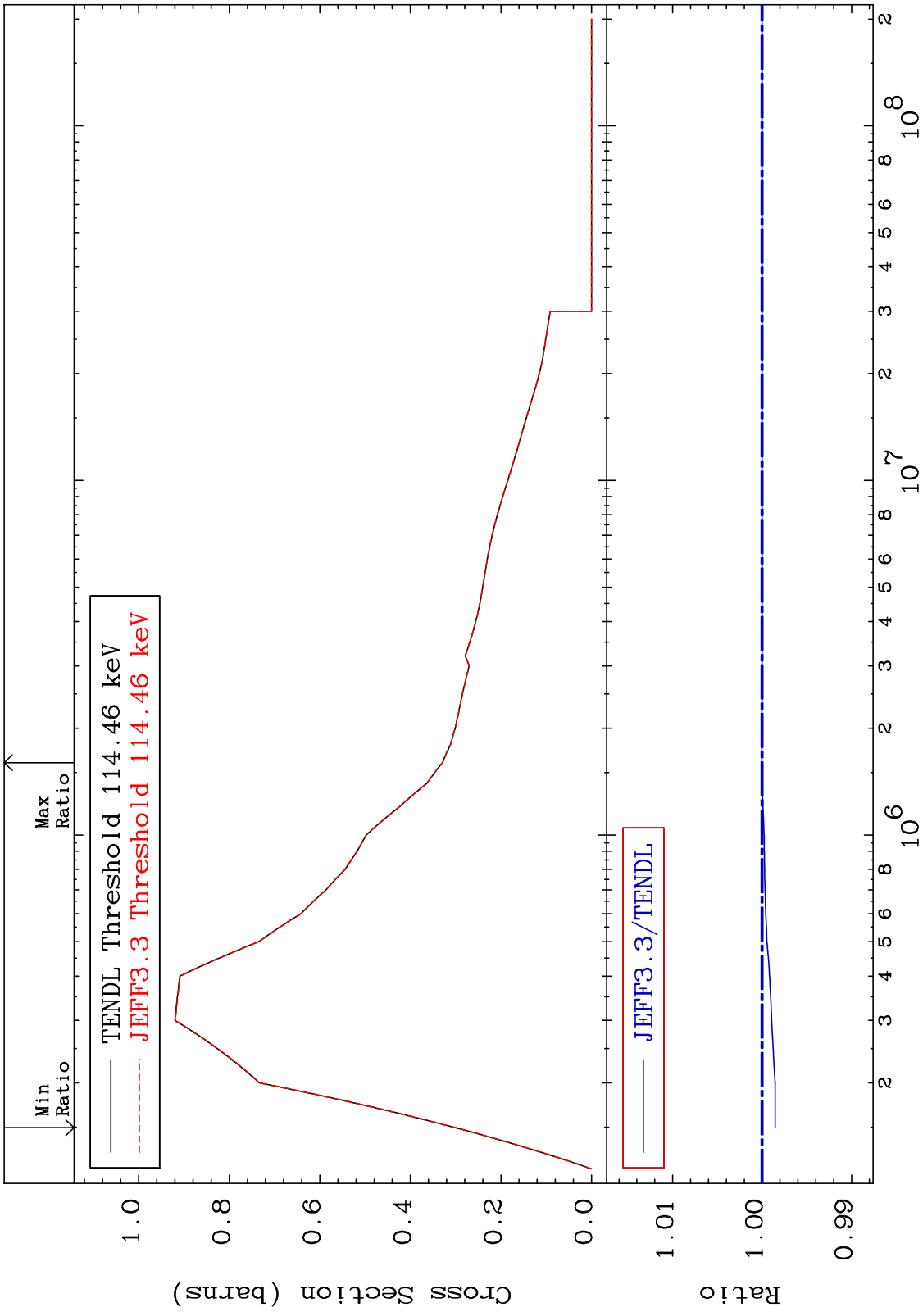
MAT 7125

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

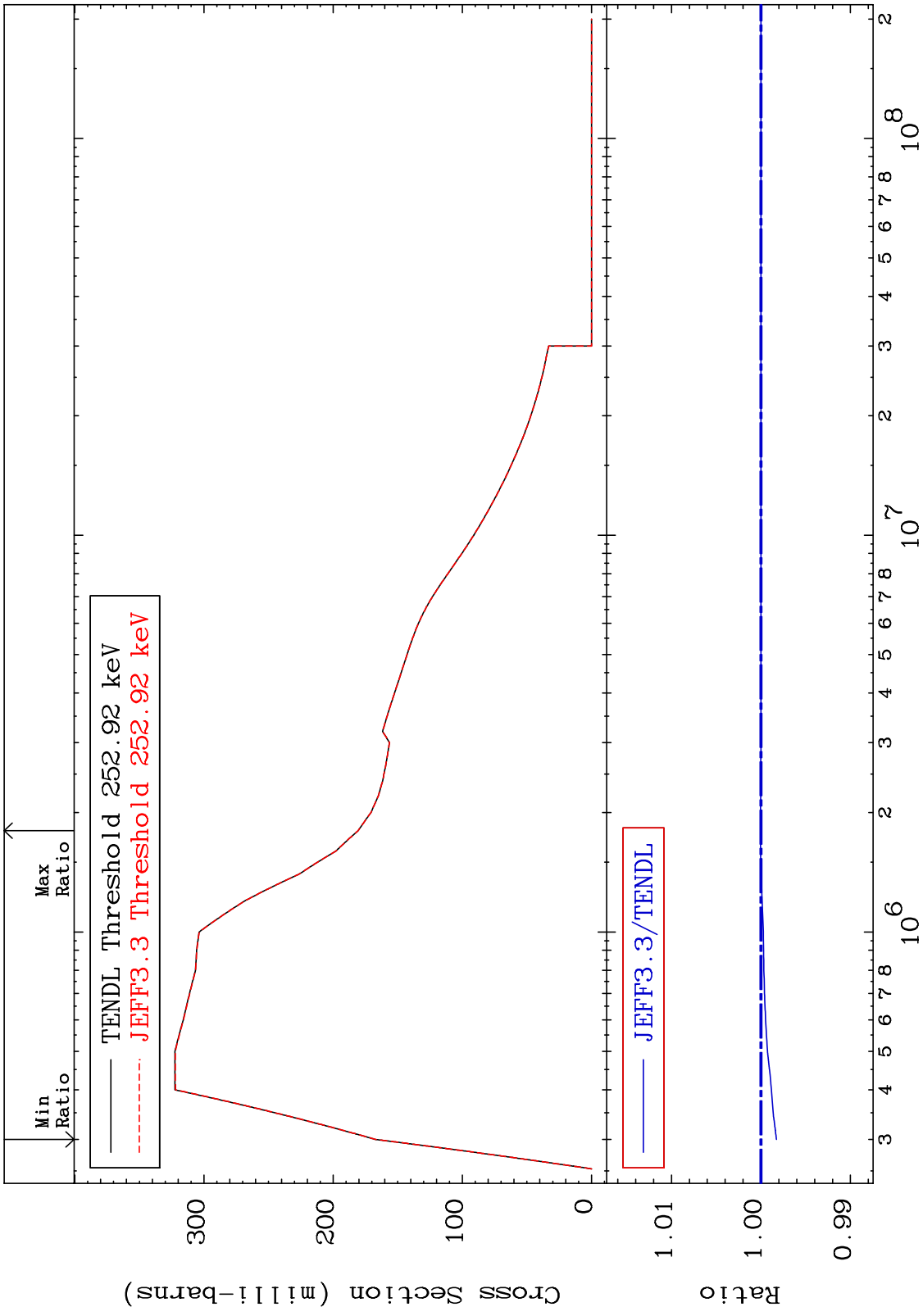
71-Lu-175  
-81.49 To 9999. %



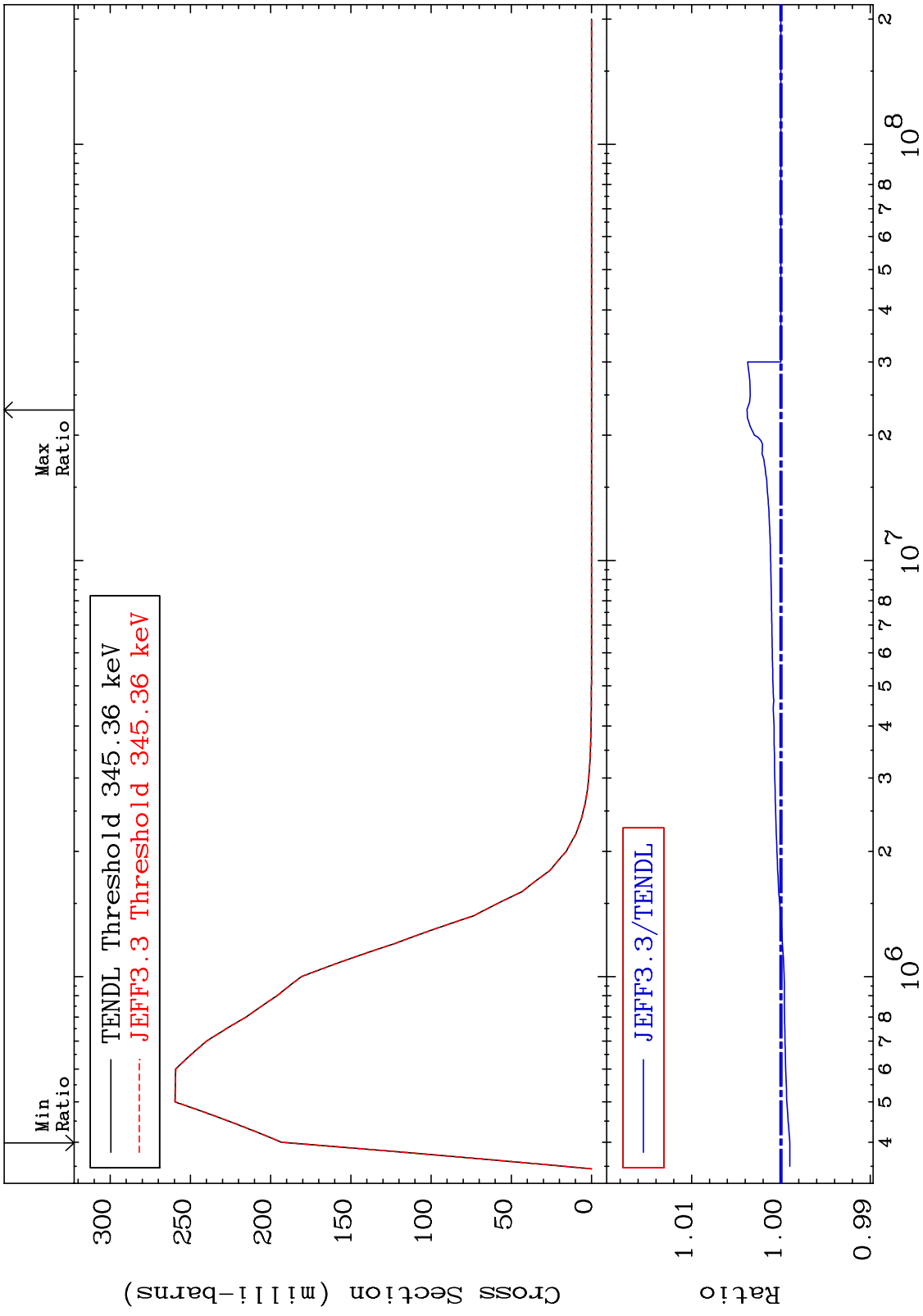
MAT 7125 MT= 51 (n,n') Level Cross Section 71-Lu-175  
 -0.145 To 0.004 %



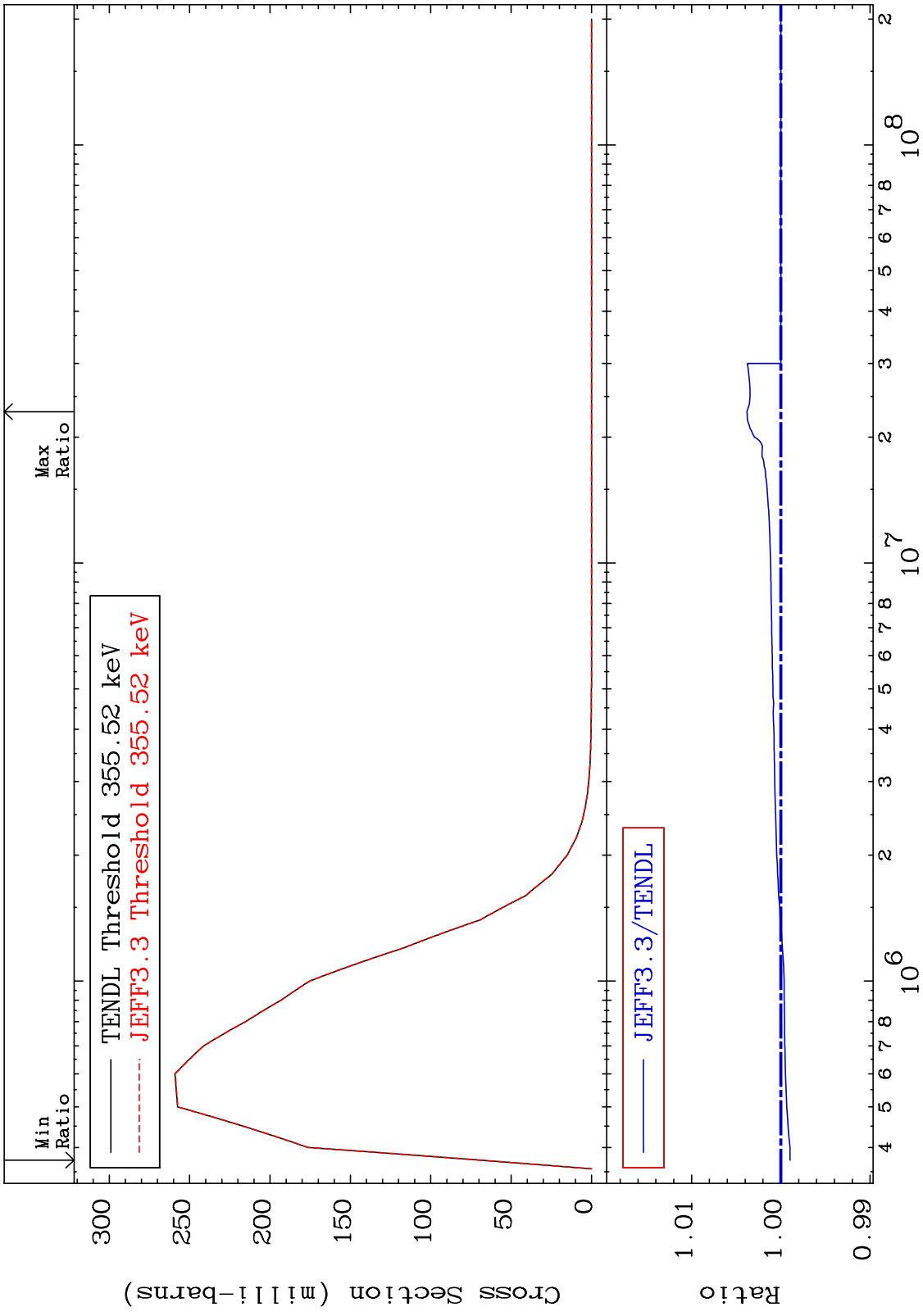
MAT 7125 MT= 52 (n,n') Level Cross Section 71-Lu-175  
 -0.173 To 0.006 %



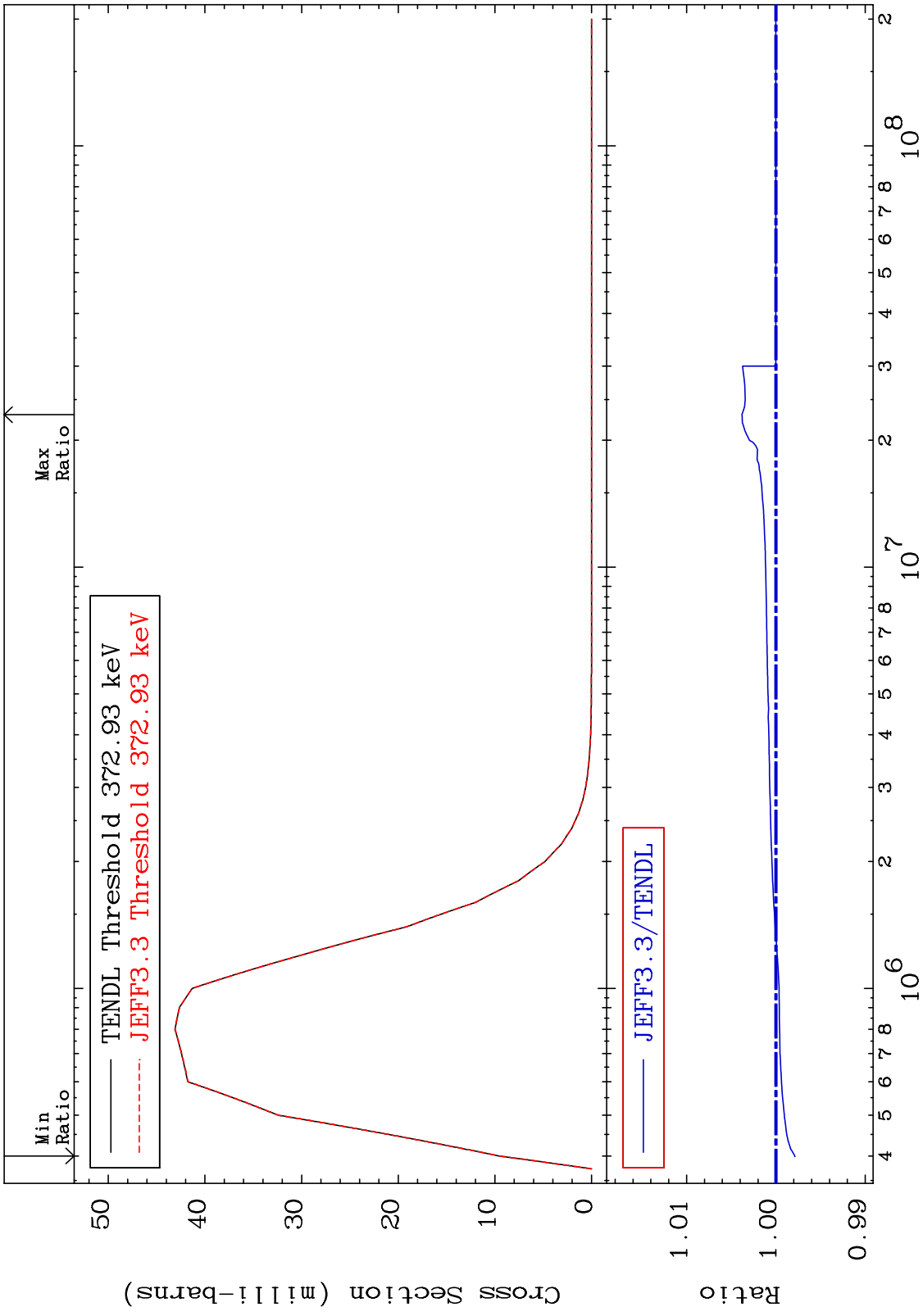
MAT 7125 MT= 53 (n,n') Level Cross Section 71-Lu-175  
 -0.100 To 0.381 %



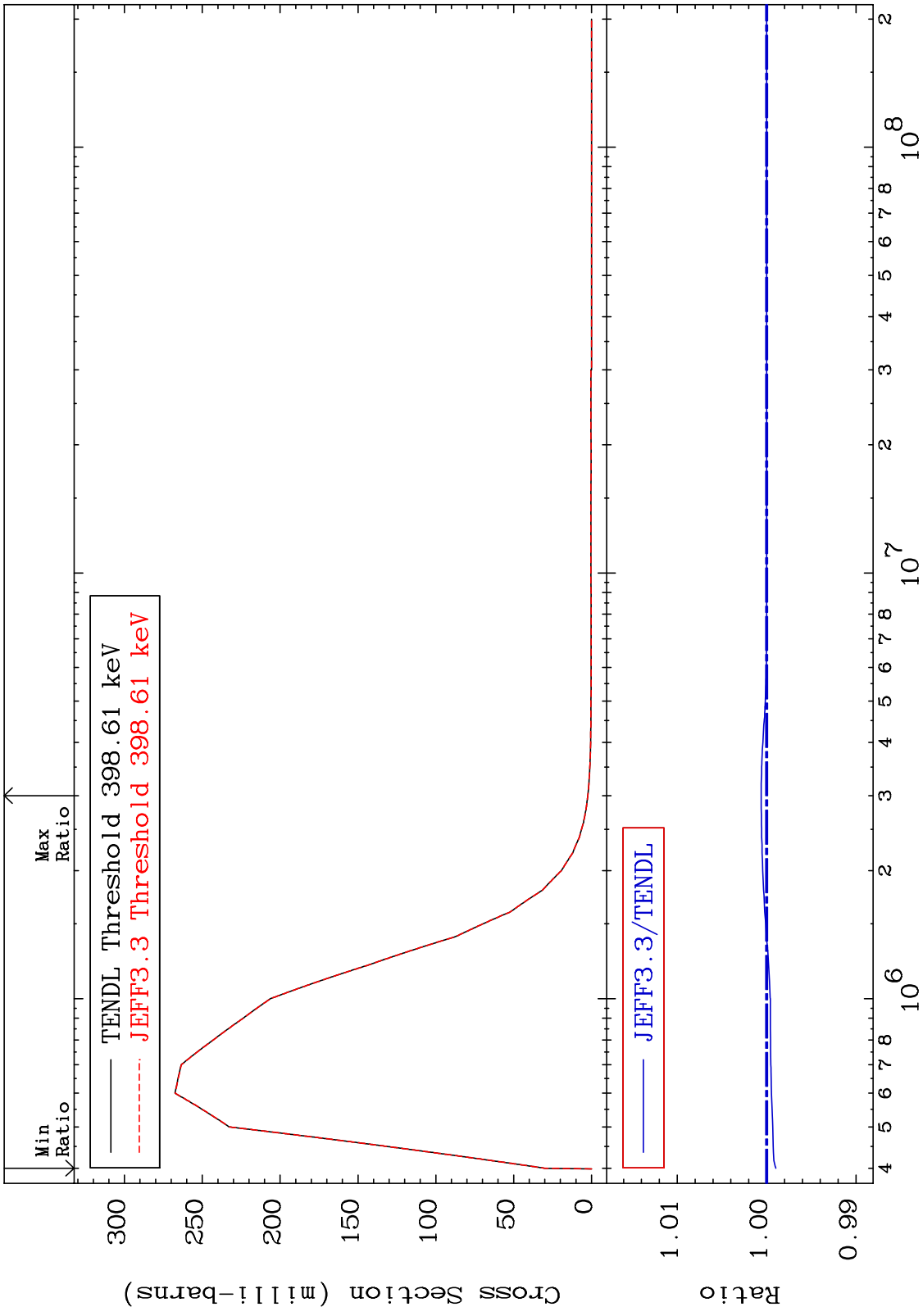
MAT 7125 MT= 54 (n,n') Level Cross Section 71-Lu-175  
 -0.103 To 0.381 %



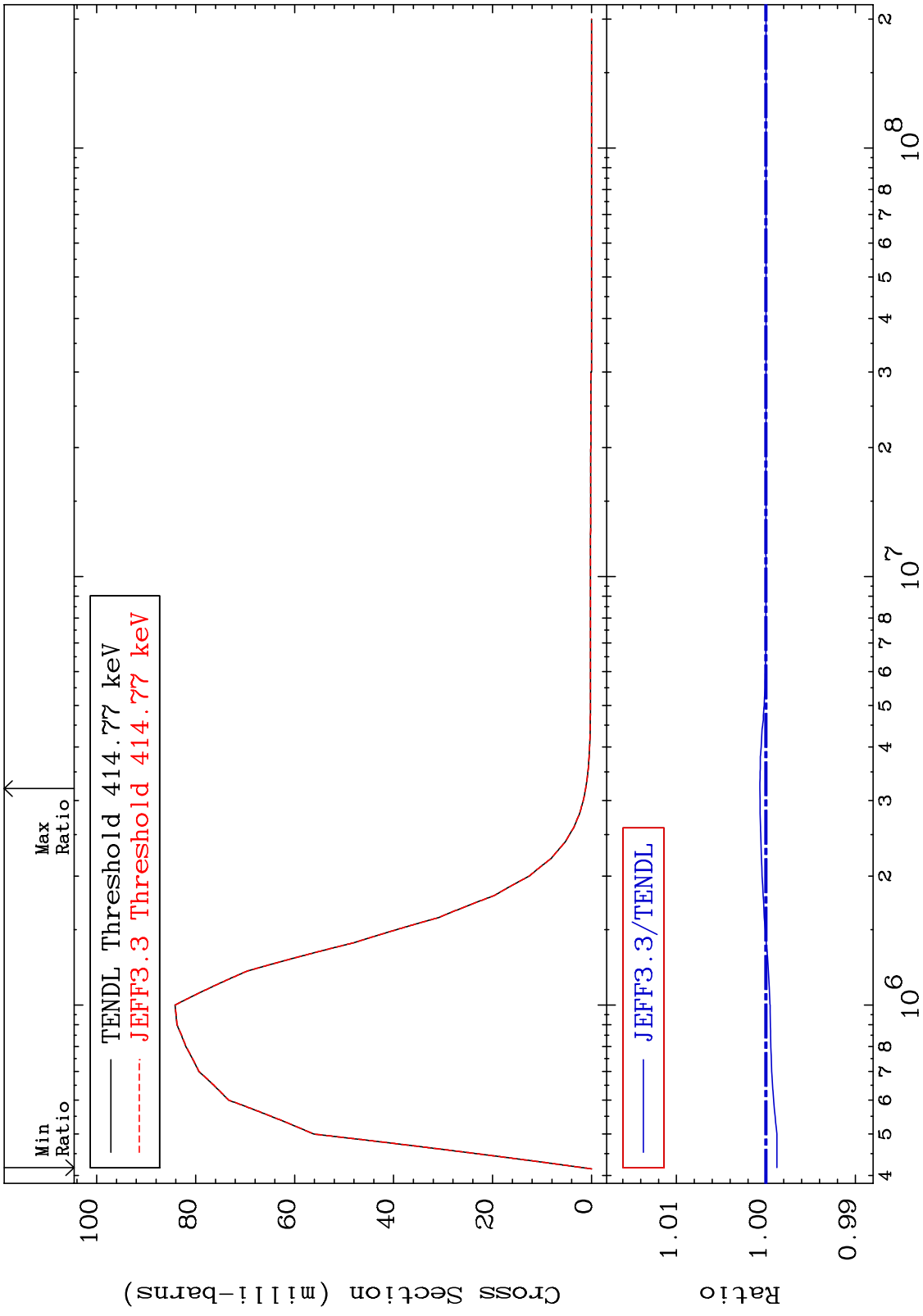
MAT 7125 MT= 55 (n,n') Level Cross Section 71-Lu-175  
 -0.213 To 0.380 %



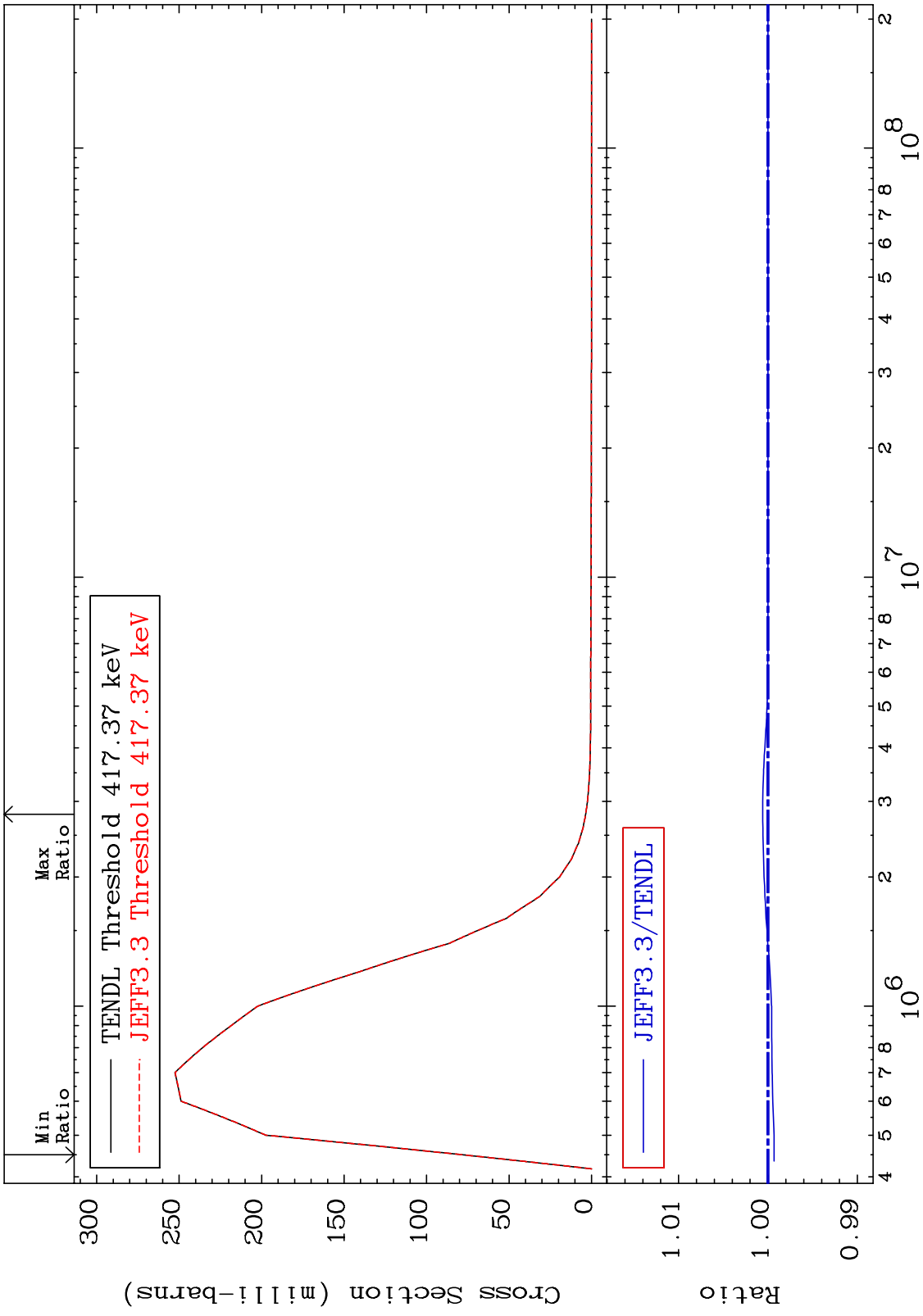
MAT 7125 MT= 56 (n,n') Level Cross Section 71-Lu-175  
 -0.102 To 0.062 %



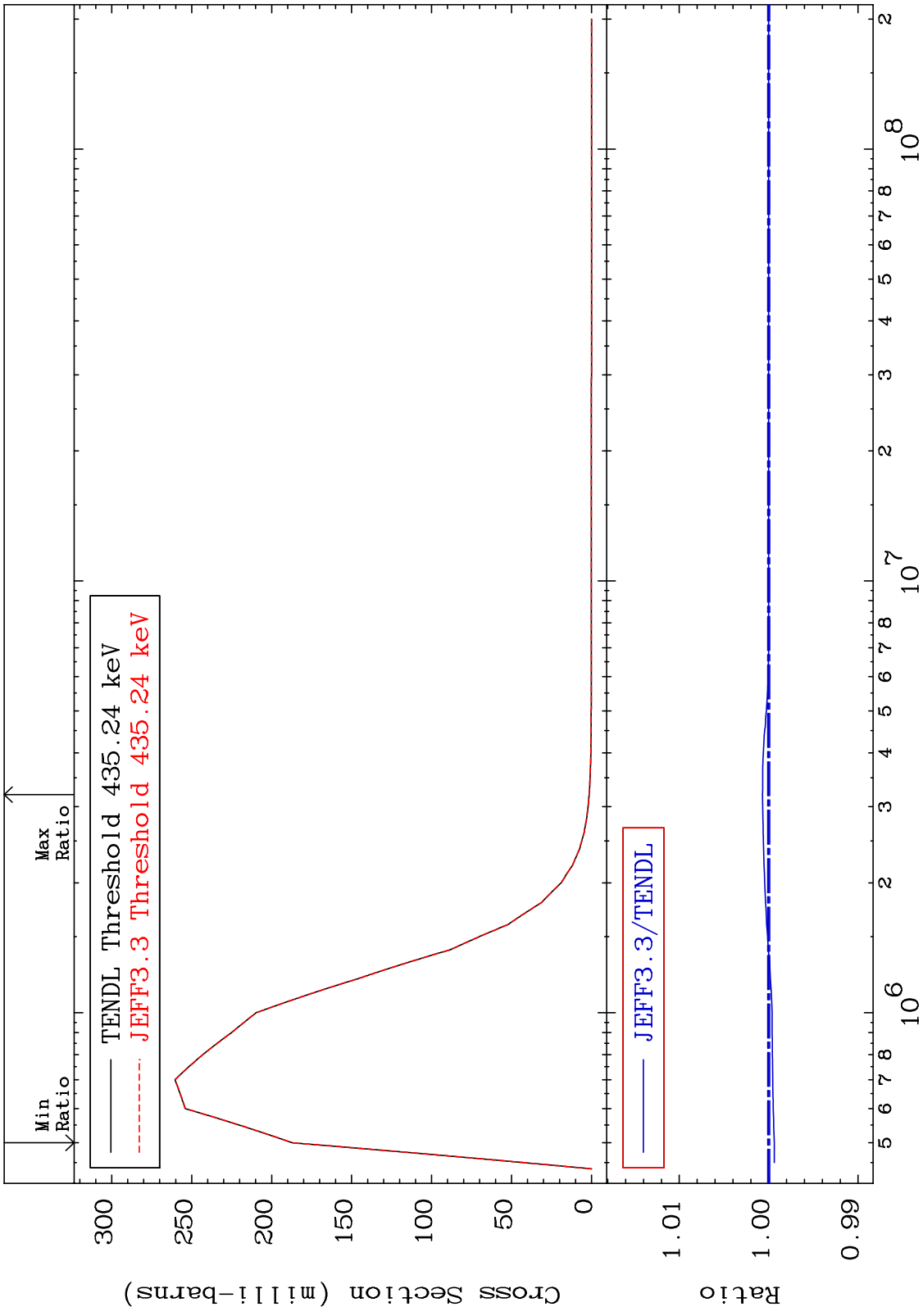
MAT 7125 MT= 57 (n,n') Level Cross Section 71-Lu-175 -0.125 To 0.067 %



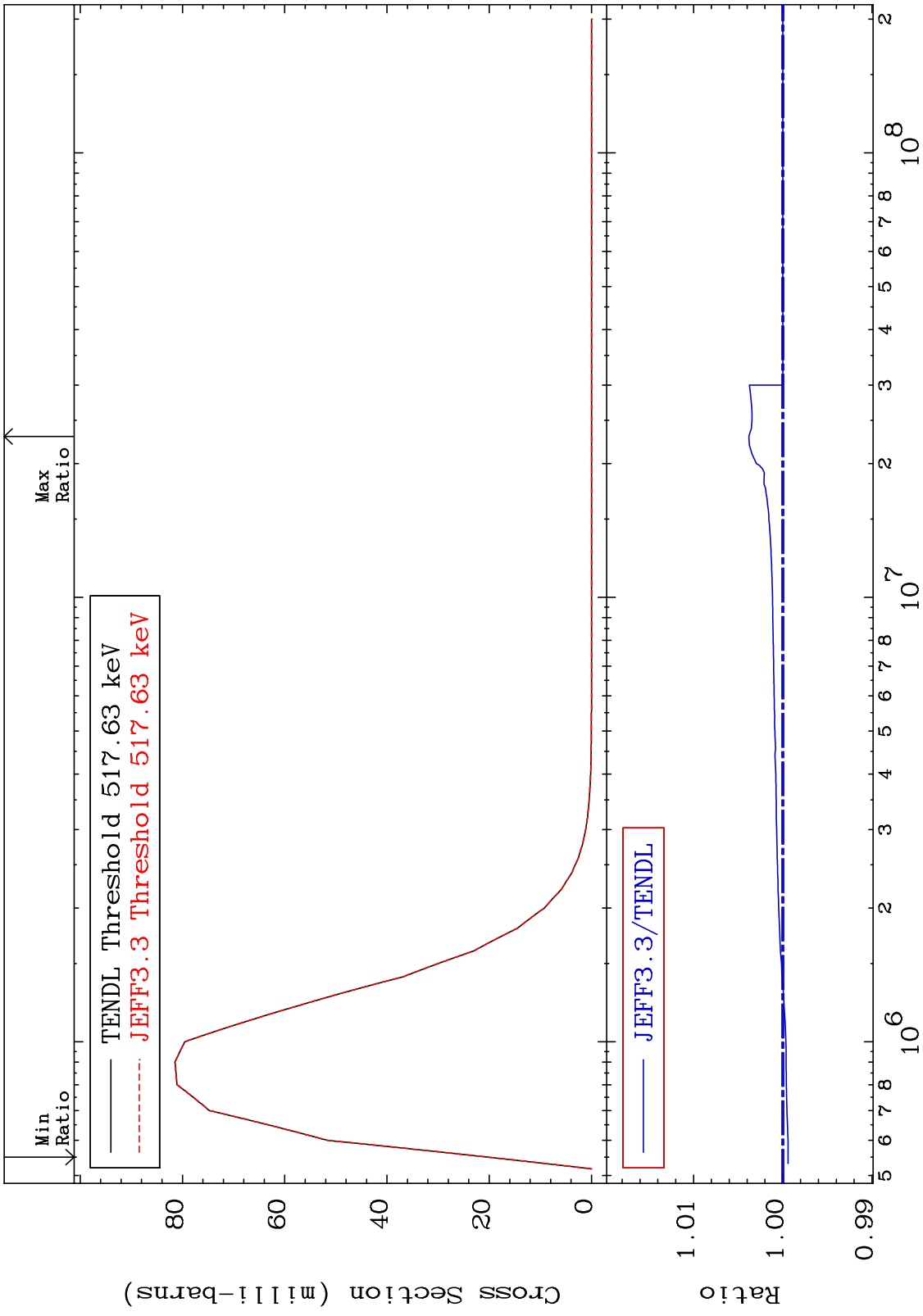
MAT 7125 MT= 58 (n,n') Level Cross Section 71-Lu-175  
 -0.069 To 0.059 %



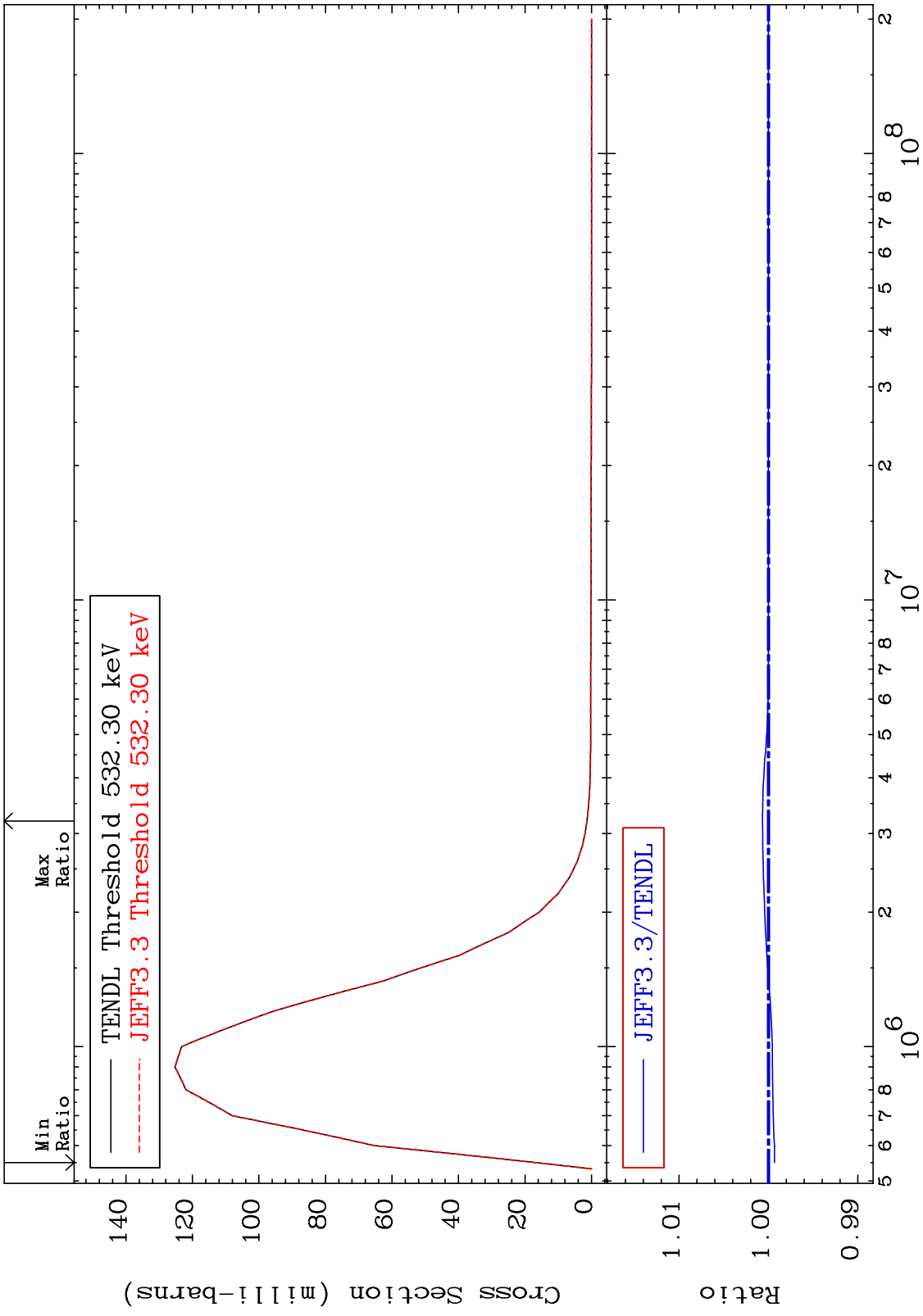
MAT 7125 MT= 59 (n,n') Level Cross Section 71-Lu-175  
 -0.063 To 0.069 %



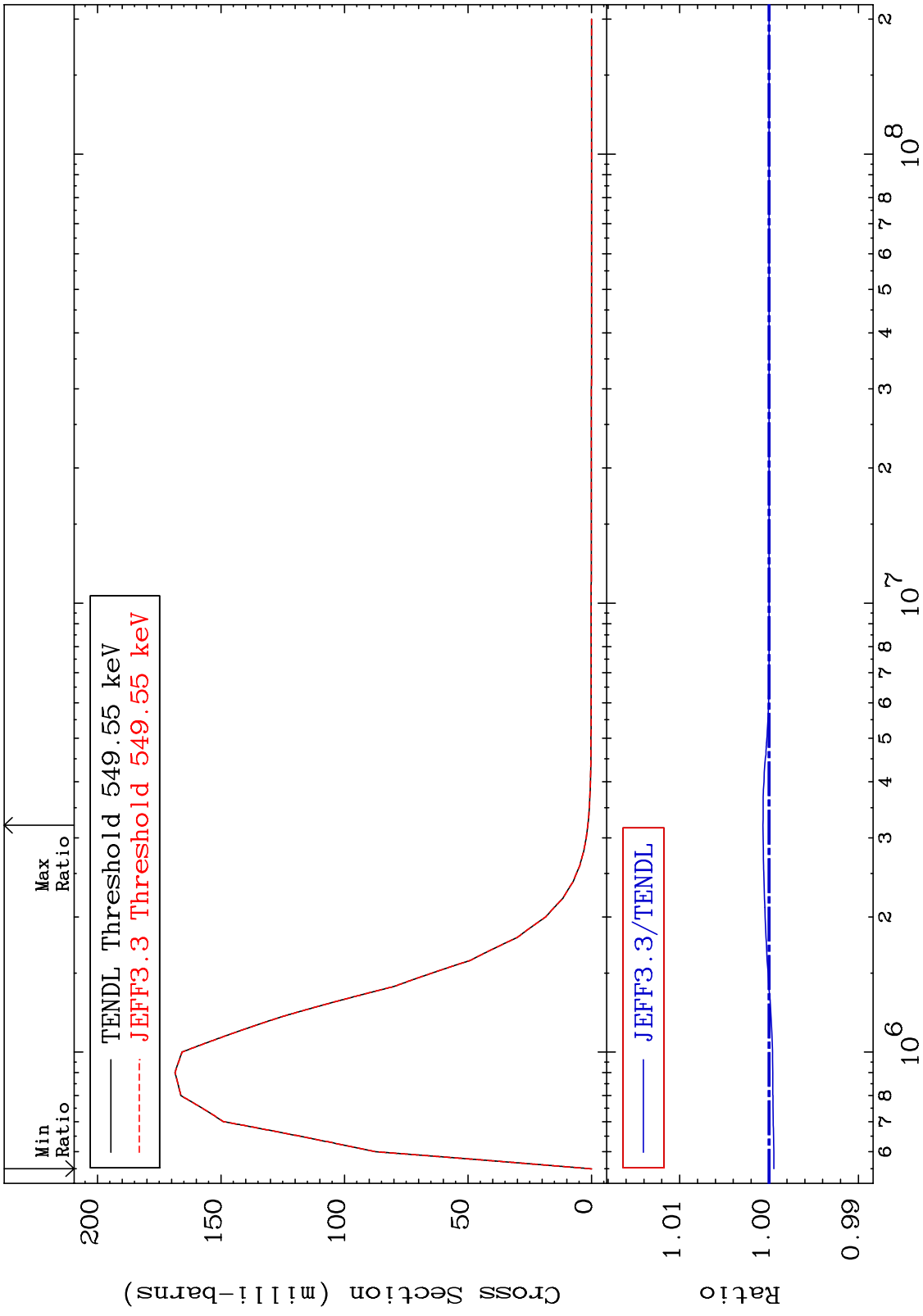
MAT 7125 MT= 60 (n,n') Level Cross Section 71-Lu-175  
 -0.059 To 0.380 %



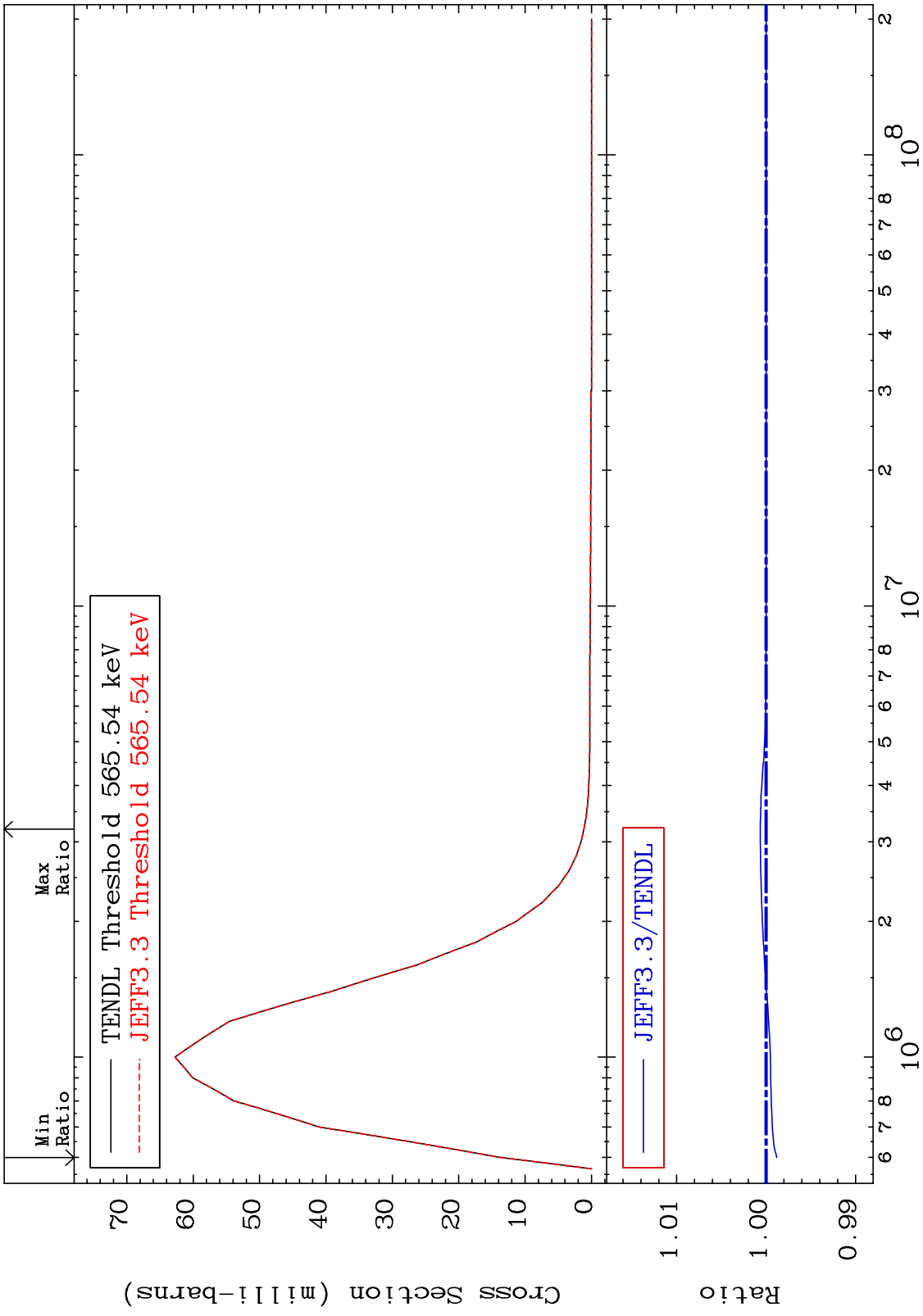
MAT 7125 MT= 61 (n,n') Level Cross Section 71-Lu-175 -0.066 To 0.067 %



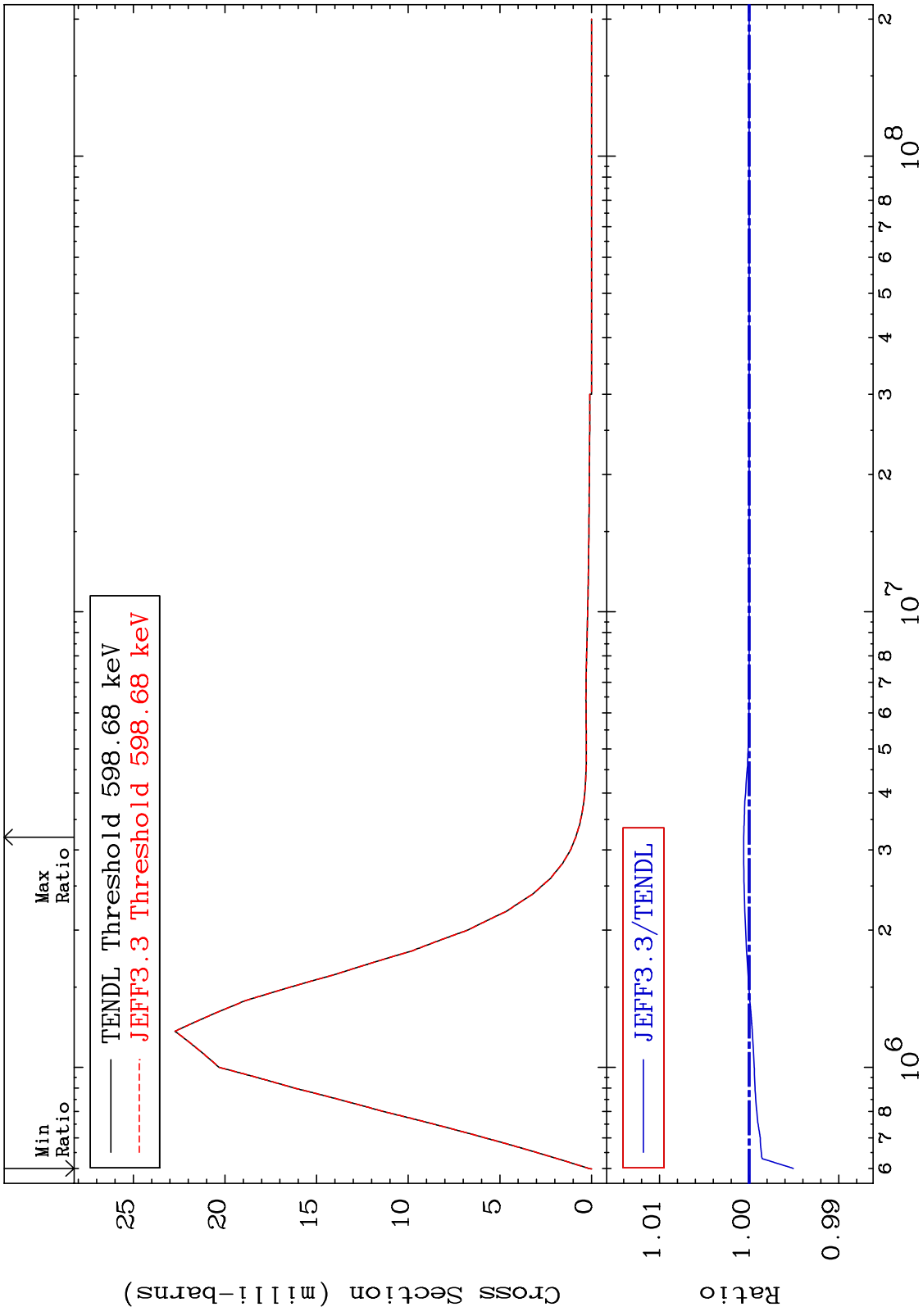
MAT 7125 MT= 62 (n,n') Level Cross Section 71-Lu-175 -0.055 To 0.068 %



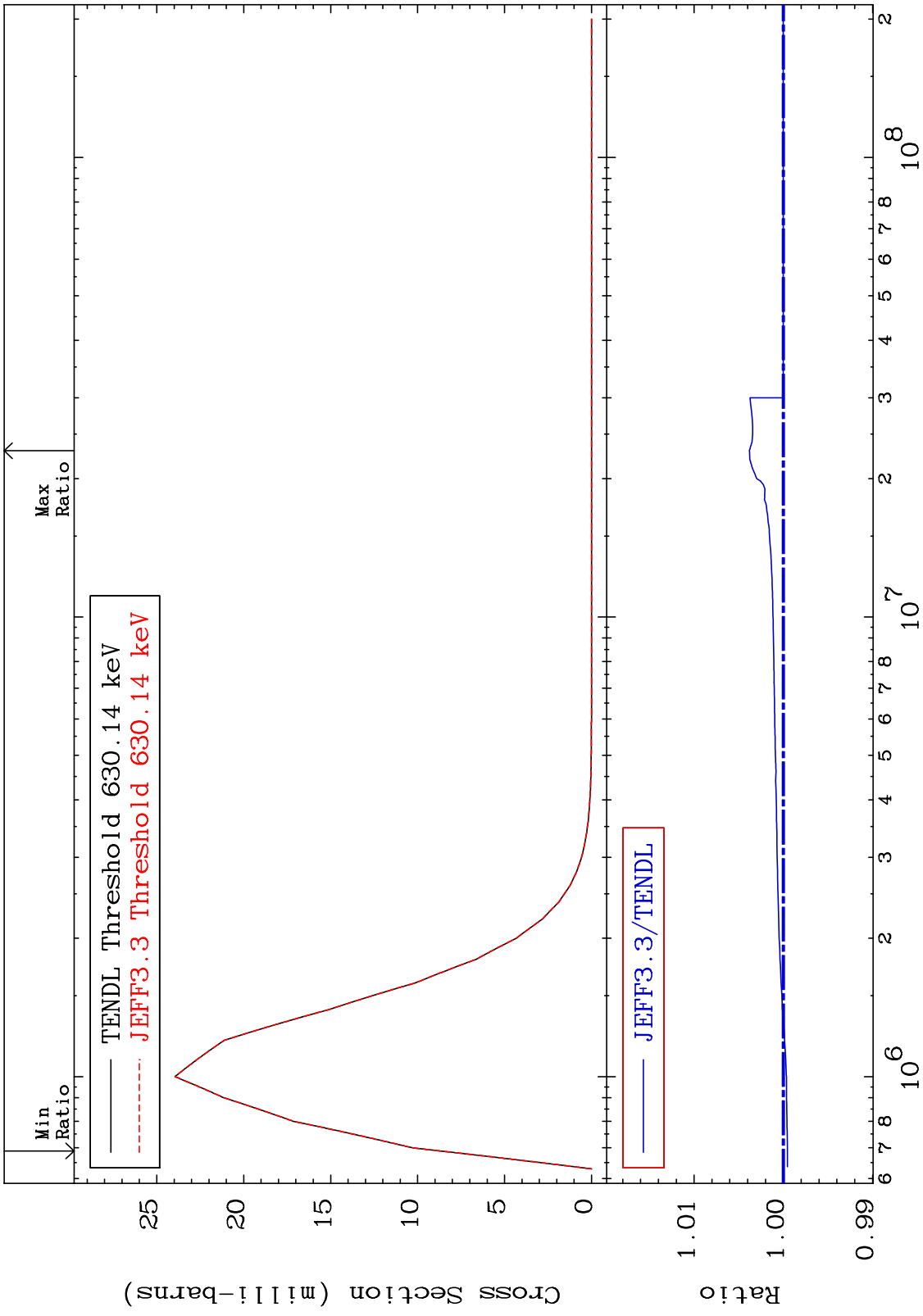
MAT 7125 MT= 63 (n,n') Level Cross Section 71-Lu-175  
 -0.118 To 0.066 %



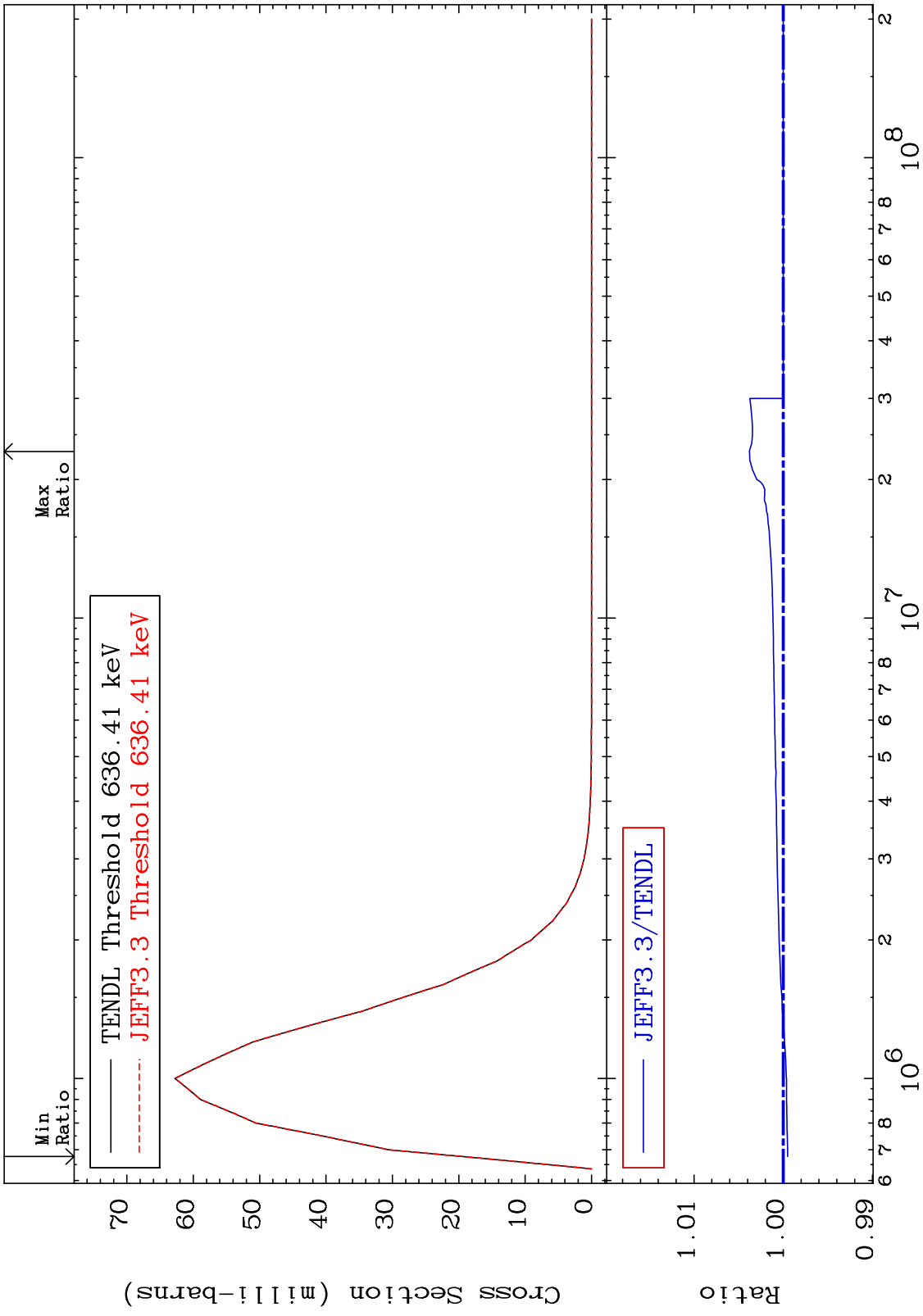
MAT 7125 MT= 64 (n,n') Level Cross Section 71-Lu-175  
 -0.492 To 0.062 %



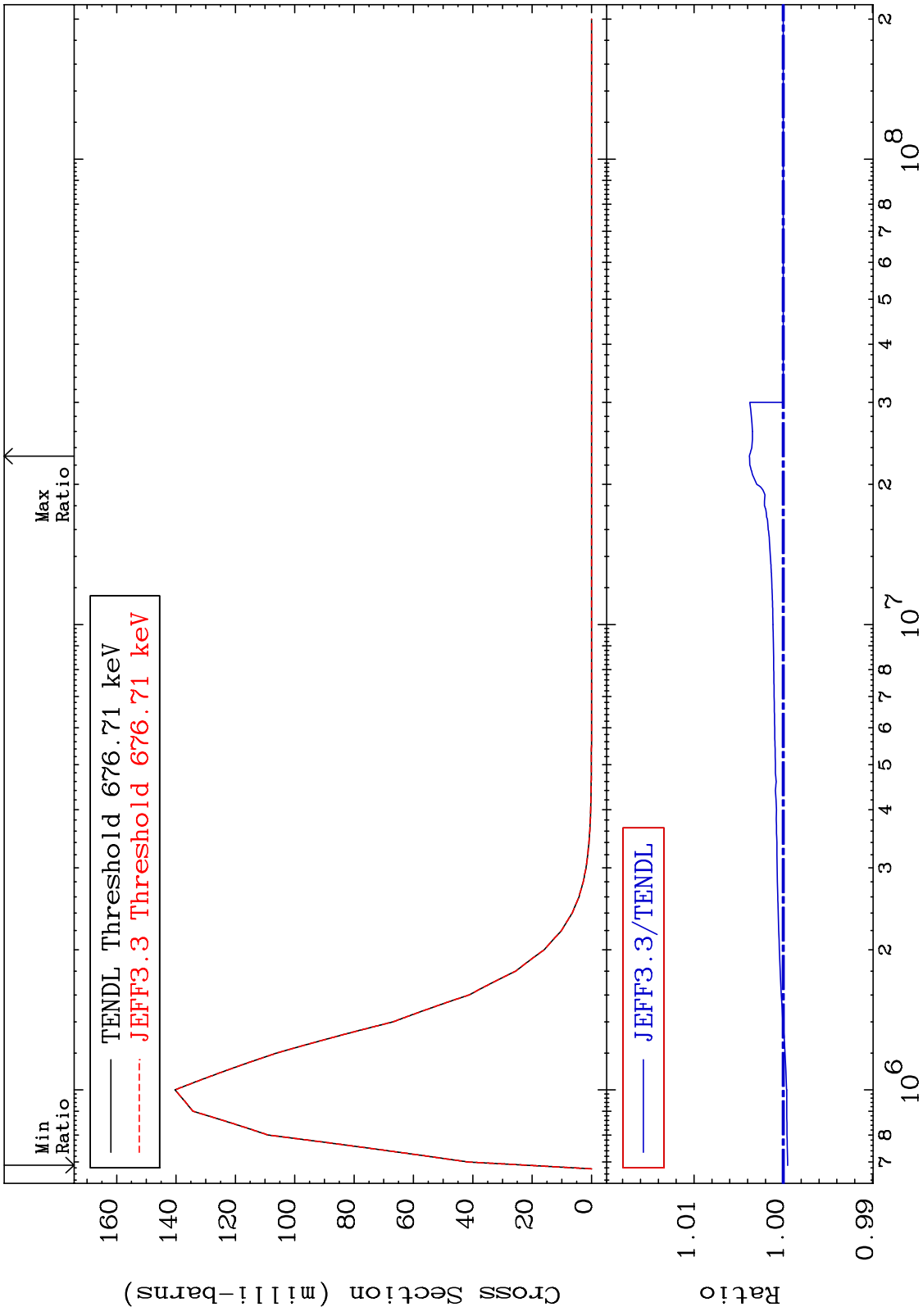
MAT 7125 MT= 65 (n,n') Level Cross Section 71-Lu-175  
 -0.047 To 0.381 %



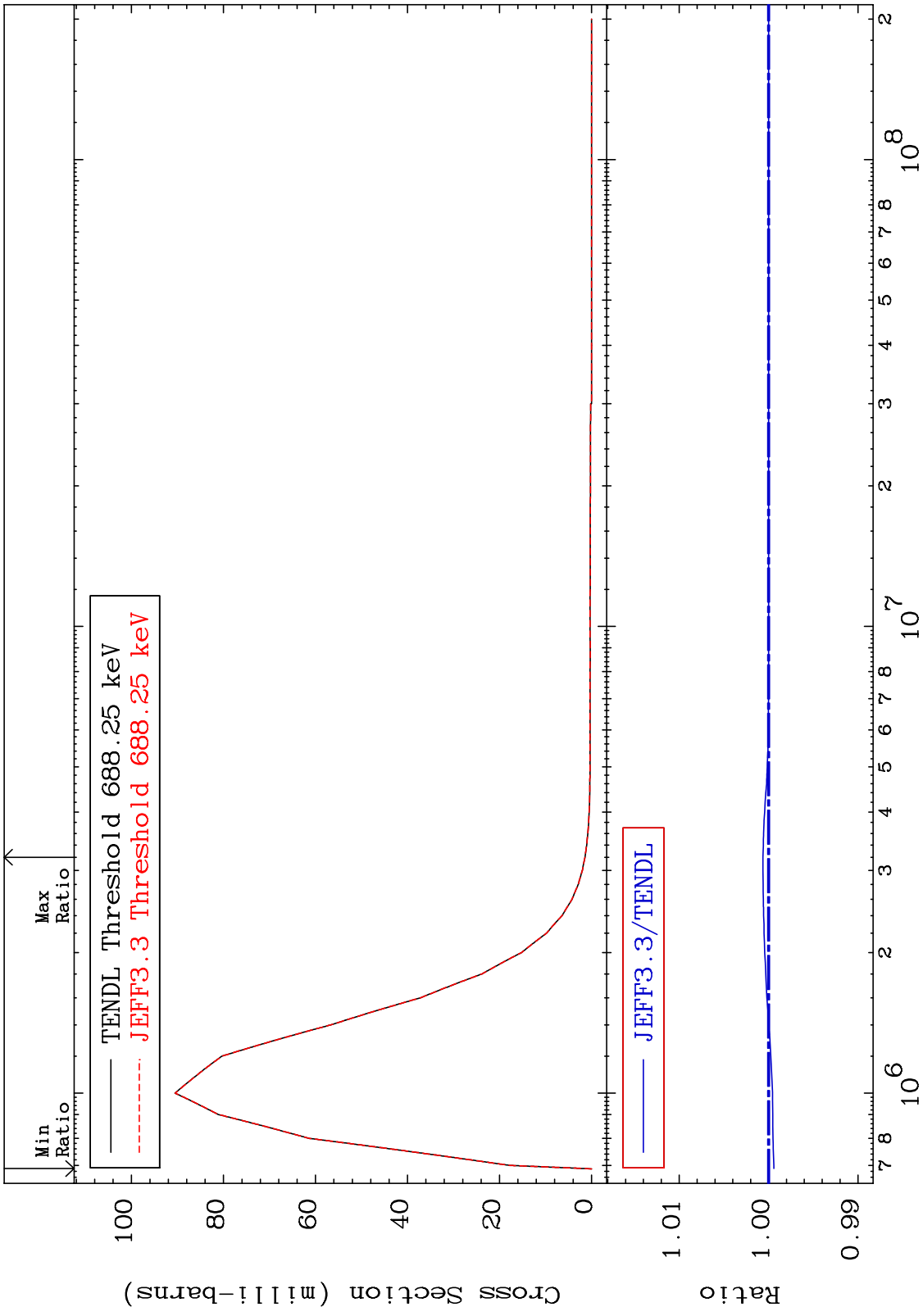
MAT 7125 MT= 66 (n,n') Level Cross Section 71-Lu-175  
-0.048 To 0.380 %



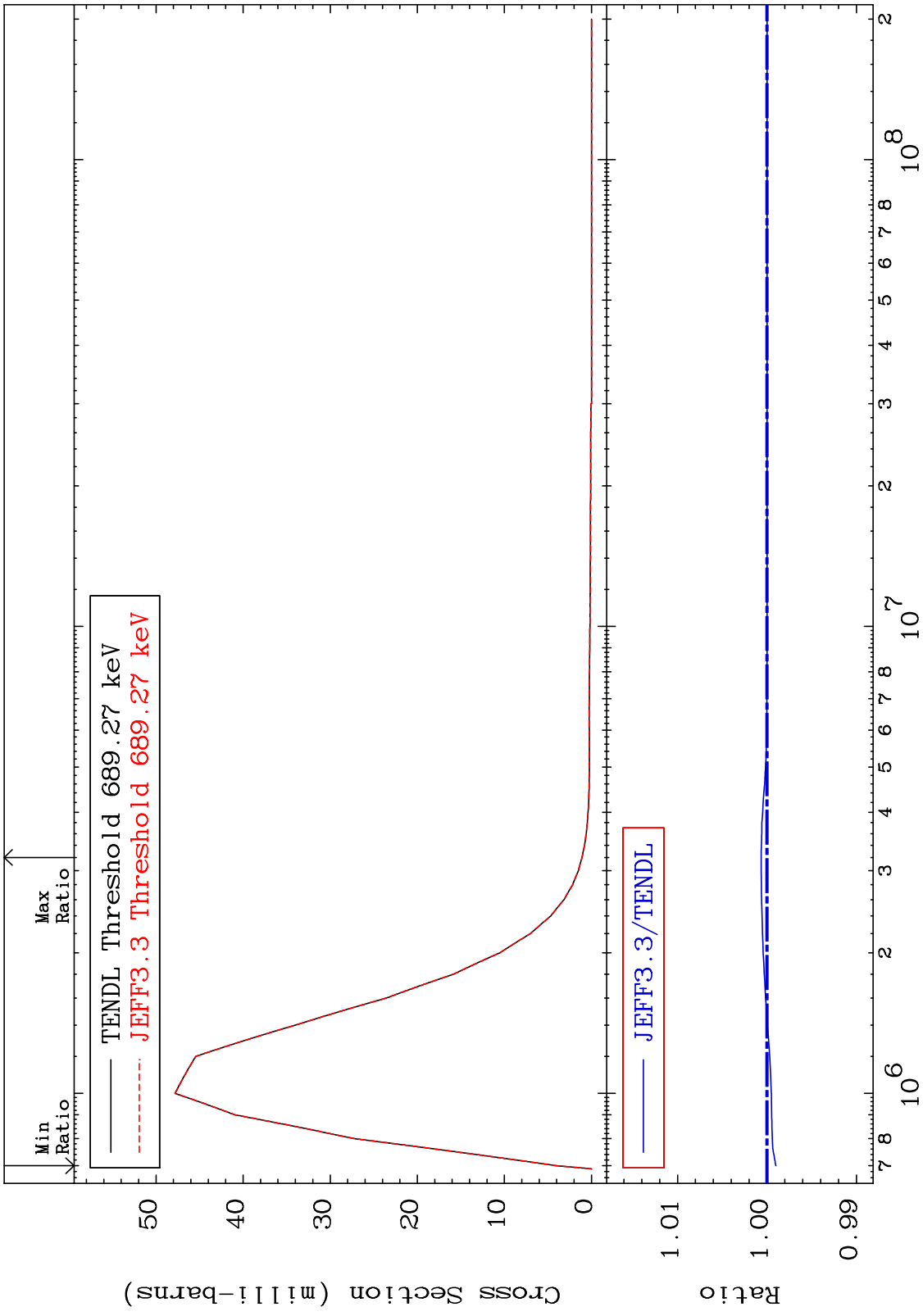
MAT 7125 MT= 67 (n,n') Level Cross Section 71-Lu-175  
 -0.048 To 0.380 %



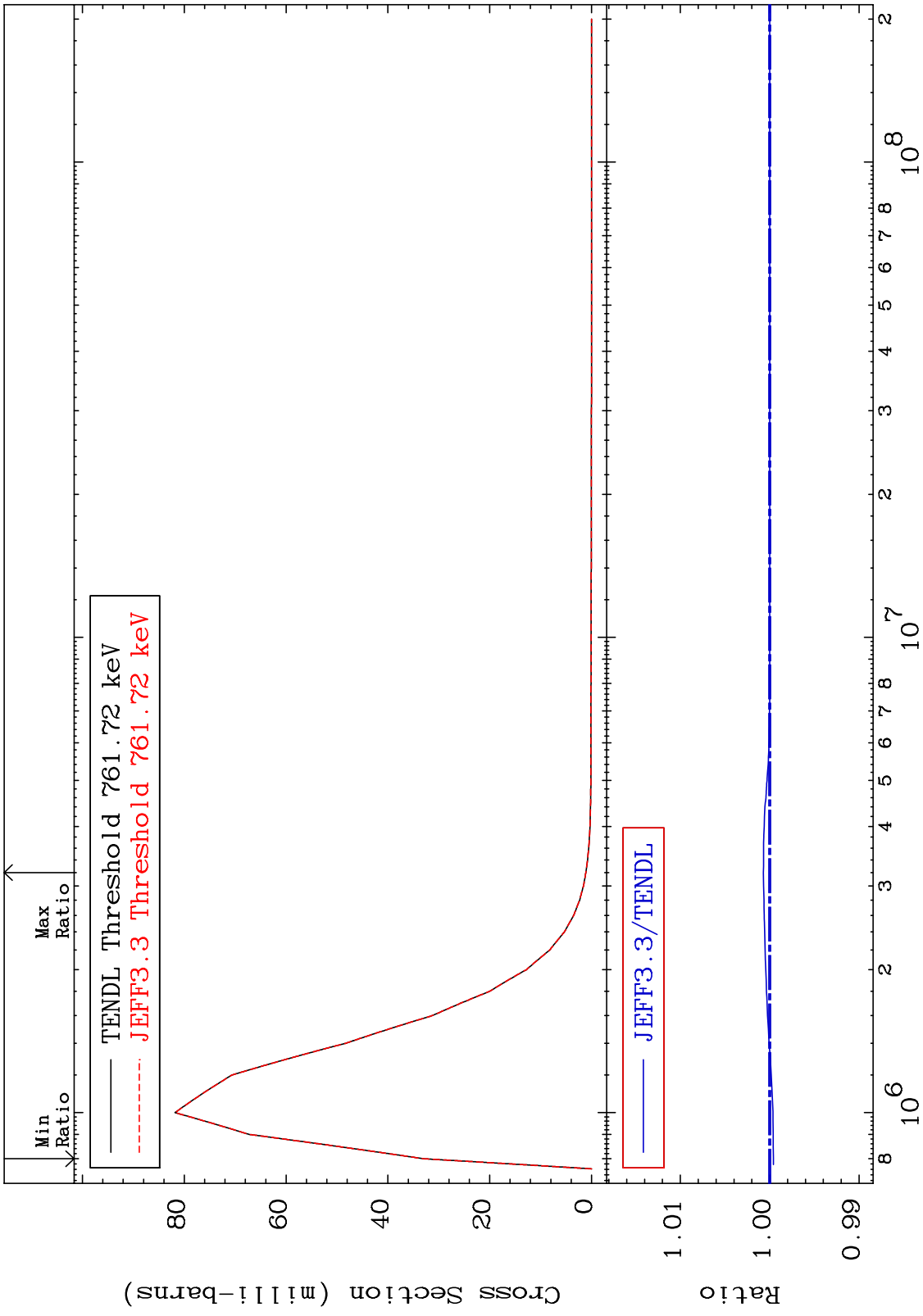
MAT 7125 MT= 68 (n,n') Level Cross Section 71-Lu-175 -0.060 To 0.063 %



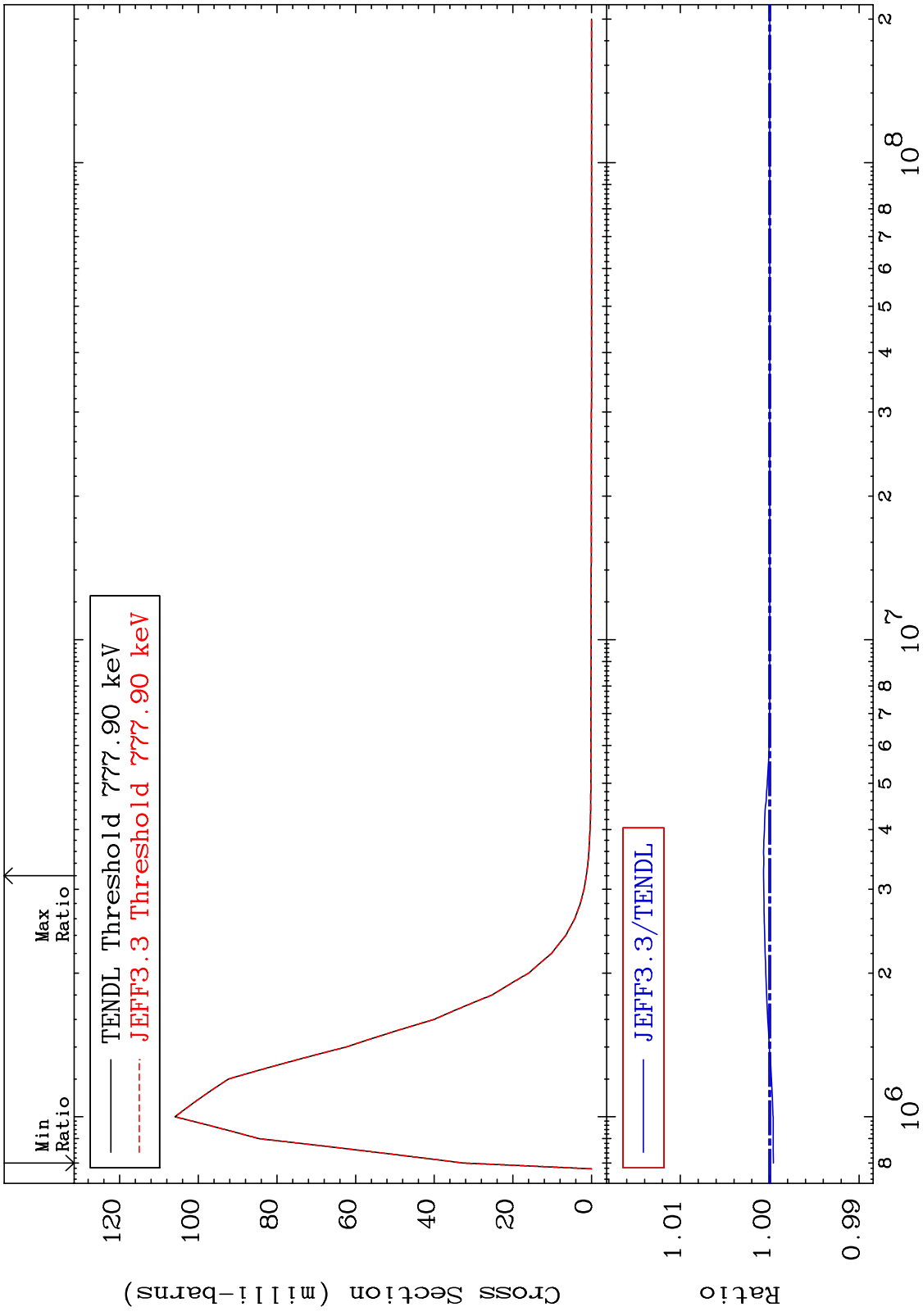
MAT 7125 MT= 69 (n,n') Level Cross Section 71-Lu-175 -0.099 To 0.066 %



MAT 7125 MT= 70 (n,n') Level Cross Section 71-Lu-175 -0.041 To 0.070 %

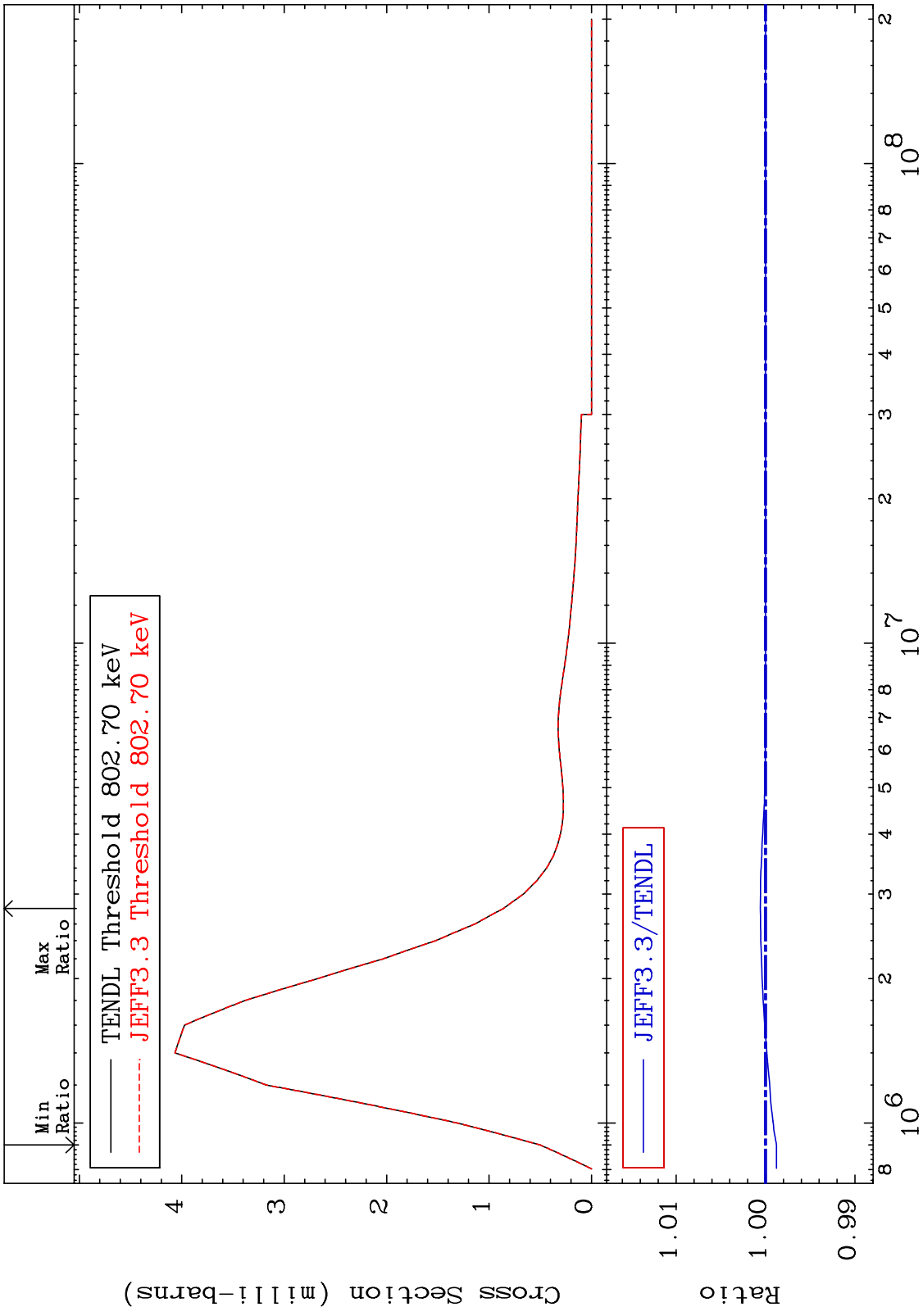


MAT 7125 MT= 71 (n,n') Level Cross Section 71-Lu-175 -0.041 To 0.070 %

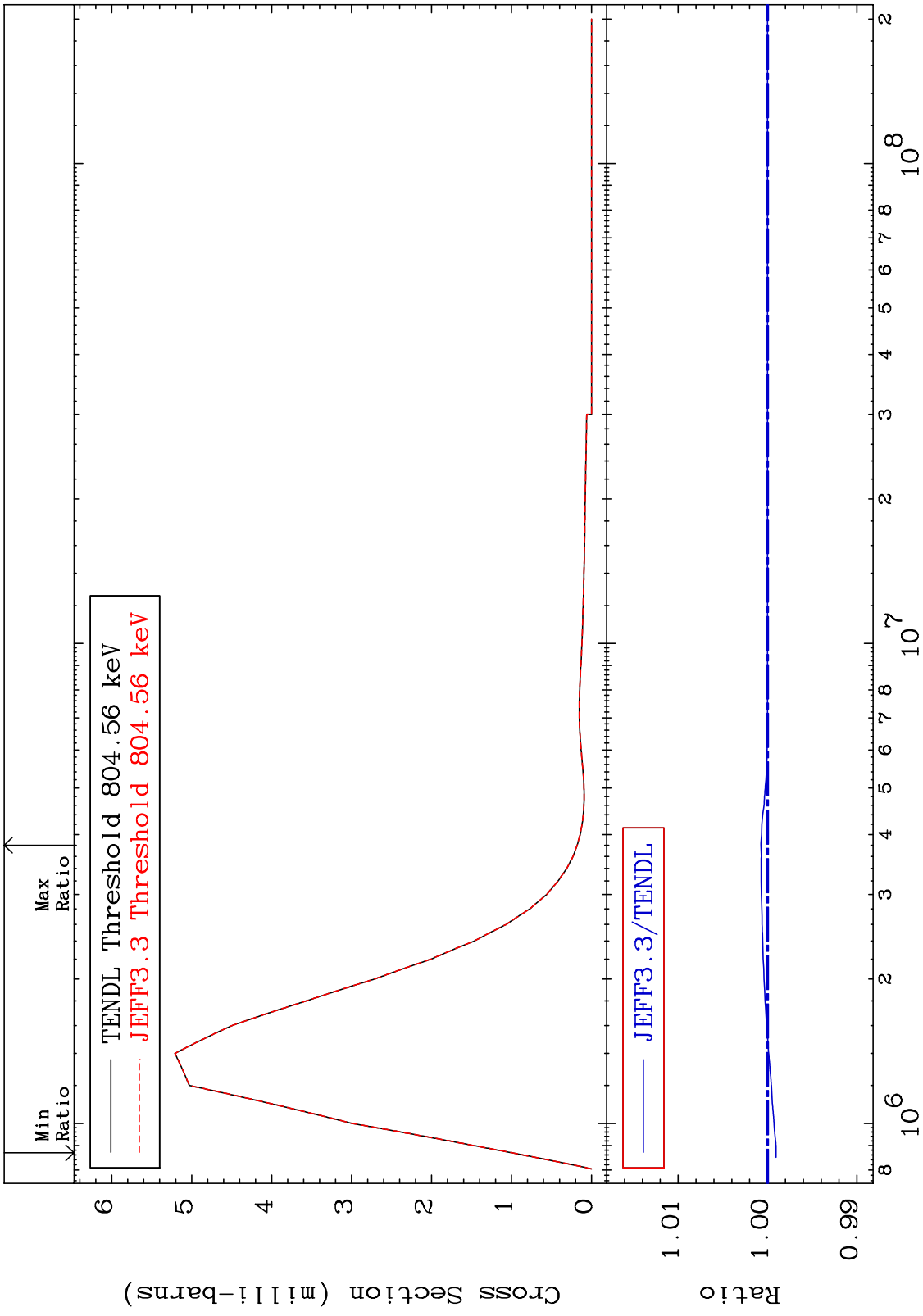


40 Incident Energy (eV) 71-Lu-175

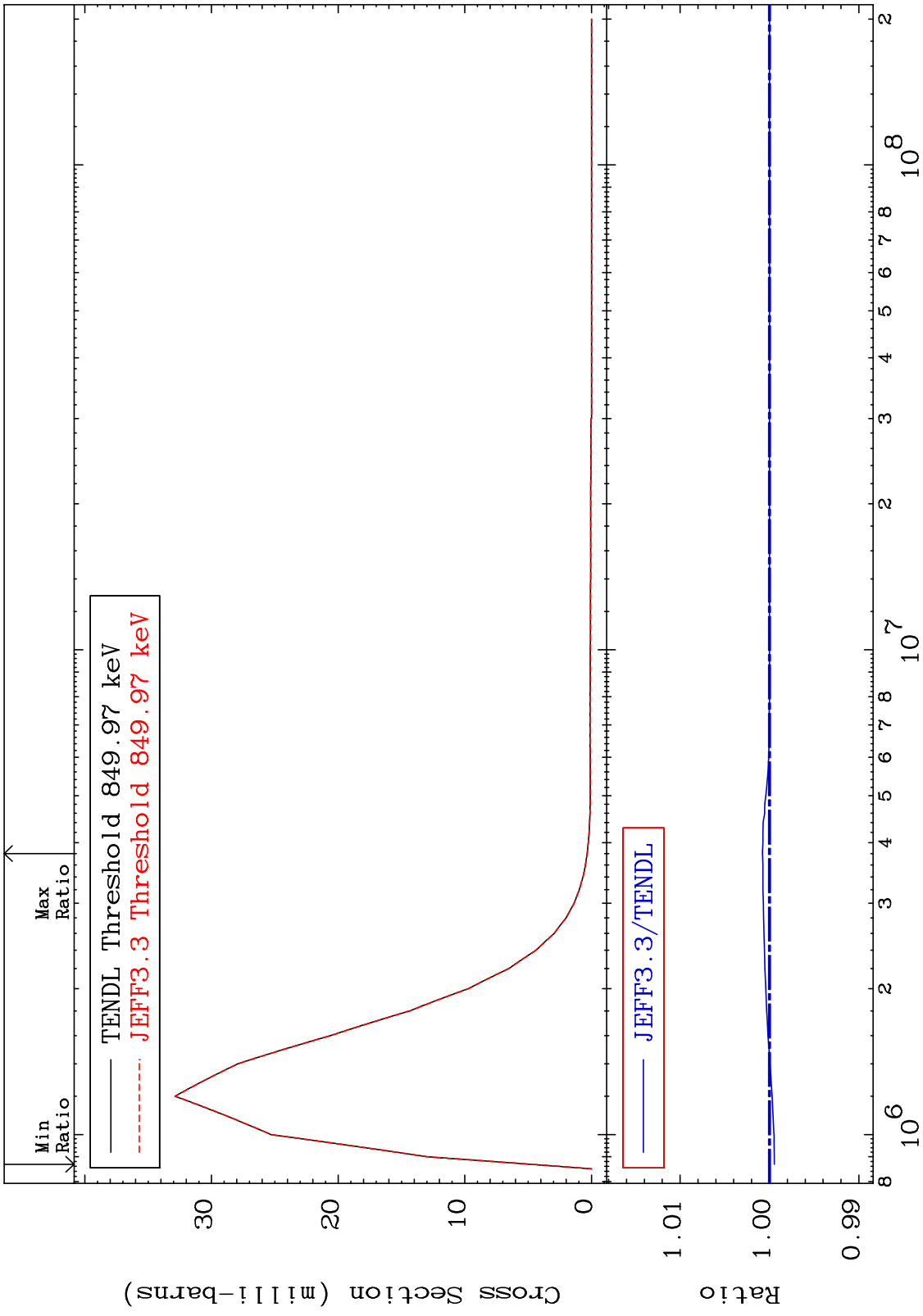
MAT 7125 MT= 72 (n,n') Level Cross Section 71-Lu-175  
 -0.123 To 0.058 %



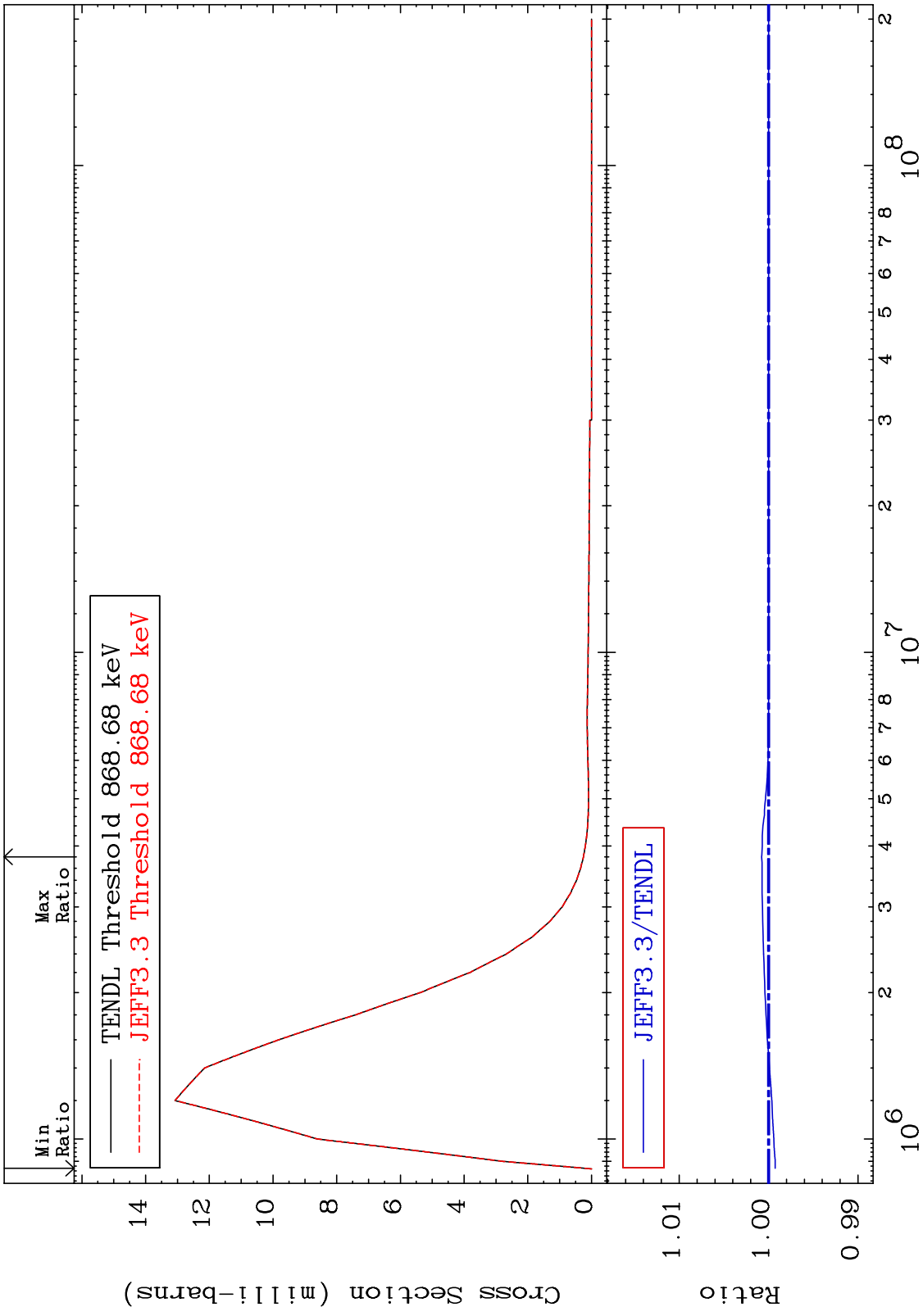
MAT 7125 MT= 73 (n,n') Level Cross Section 71-Lu-175 -0.095 To 0.075 %



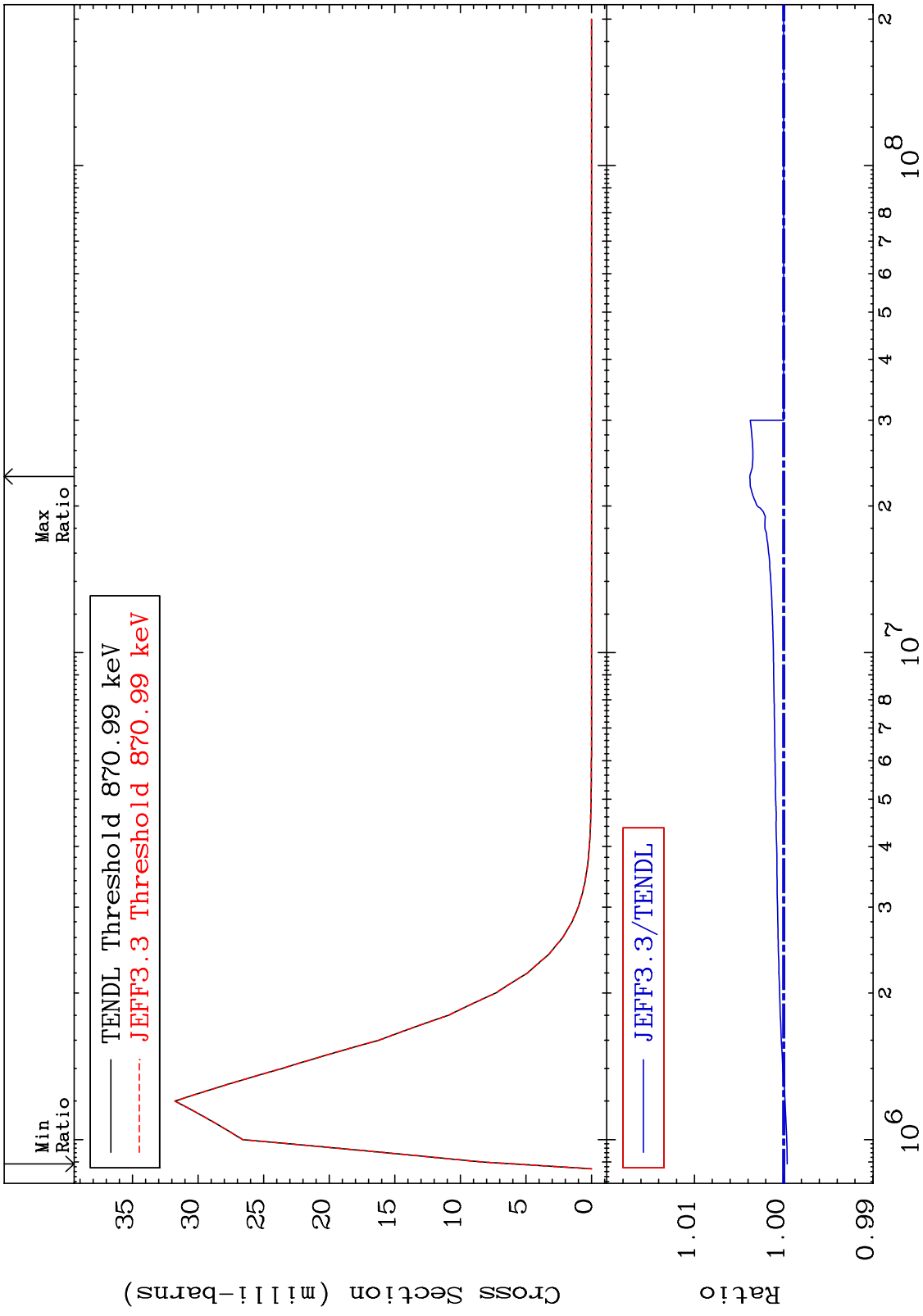
MAT 7125 MT= 74 (n,n') Level Cross Section 71-Lu-175 -0.055 To 0.078 %



MAT 7125 MT= 75 (n,n') Level Cross Section 71-Lu-175 -0.074 To 0.077 %



MAT 7125 MT= 76 (n,n') Level Cross Section 71-Lu-175  
-0.040 To 0.380 %

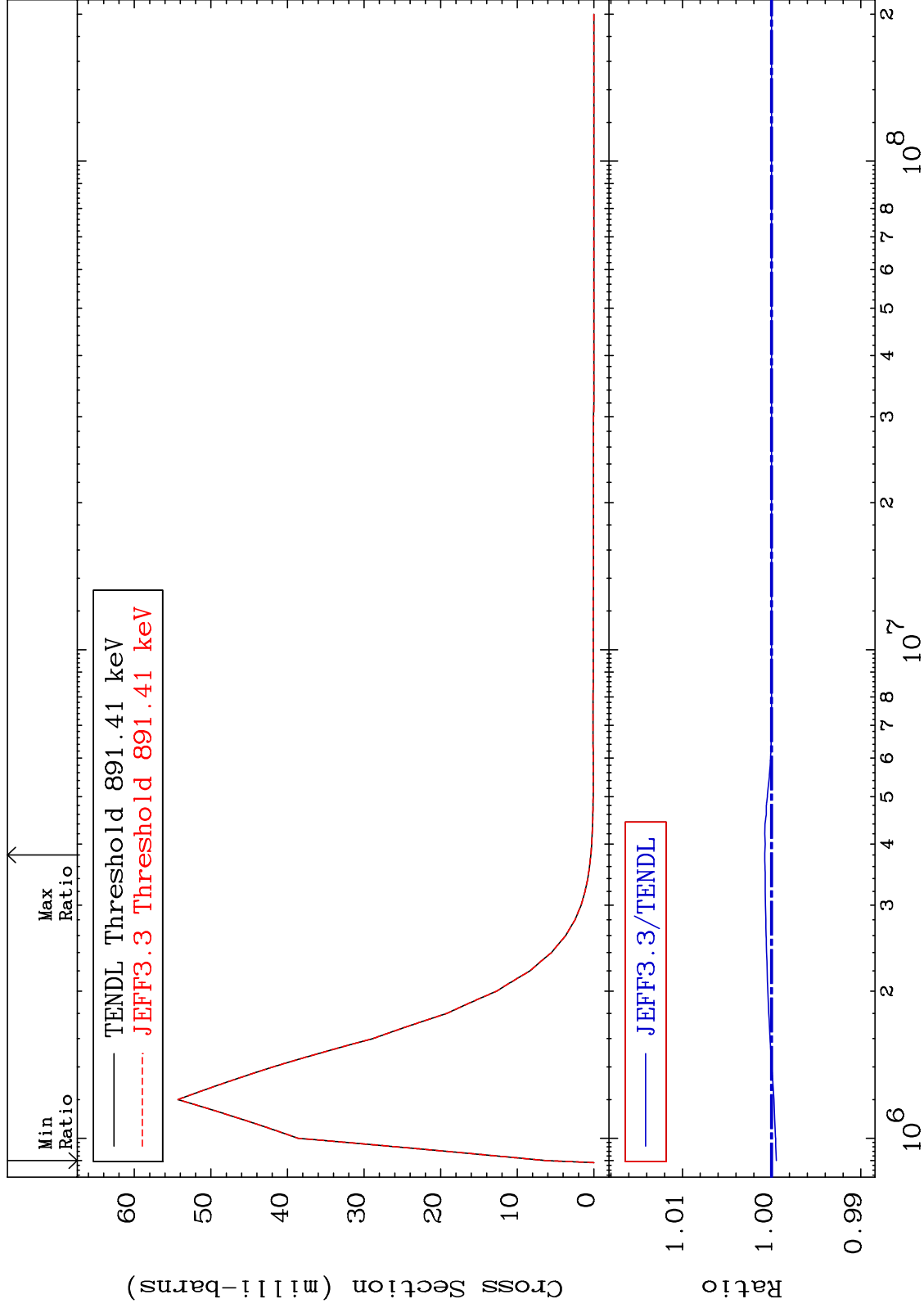


45 Incident Energy (eV) 71-Lu-175

MAT 7125

MT= 77 (n,n') Level  
Cross Section

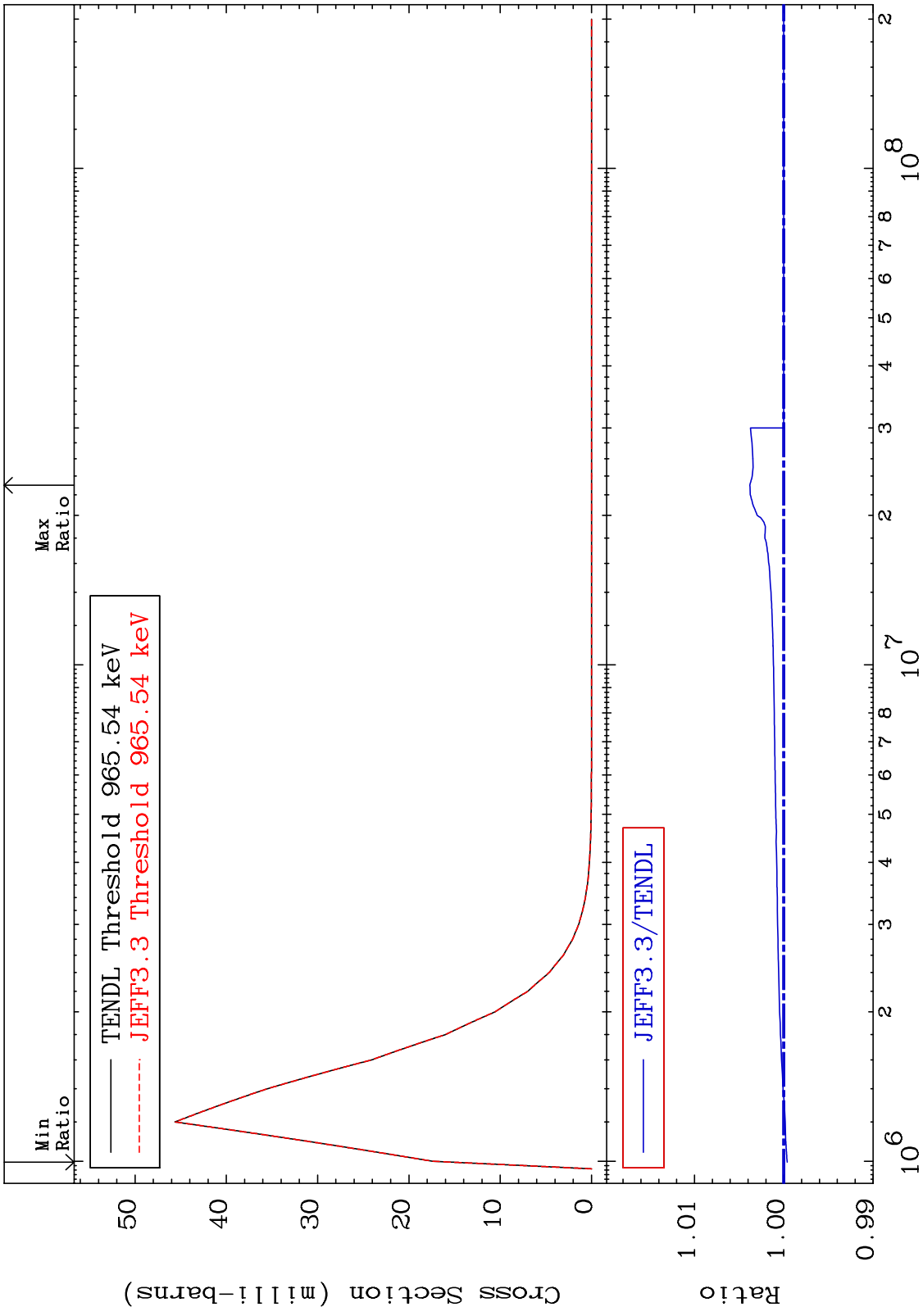
71-Lu-175  
-0.052 To 0.077 %



46

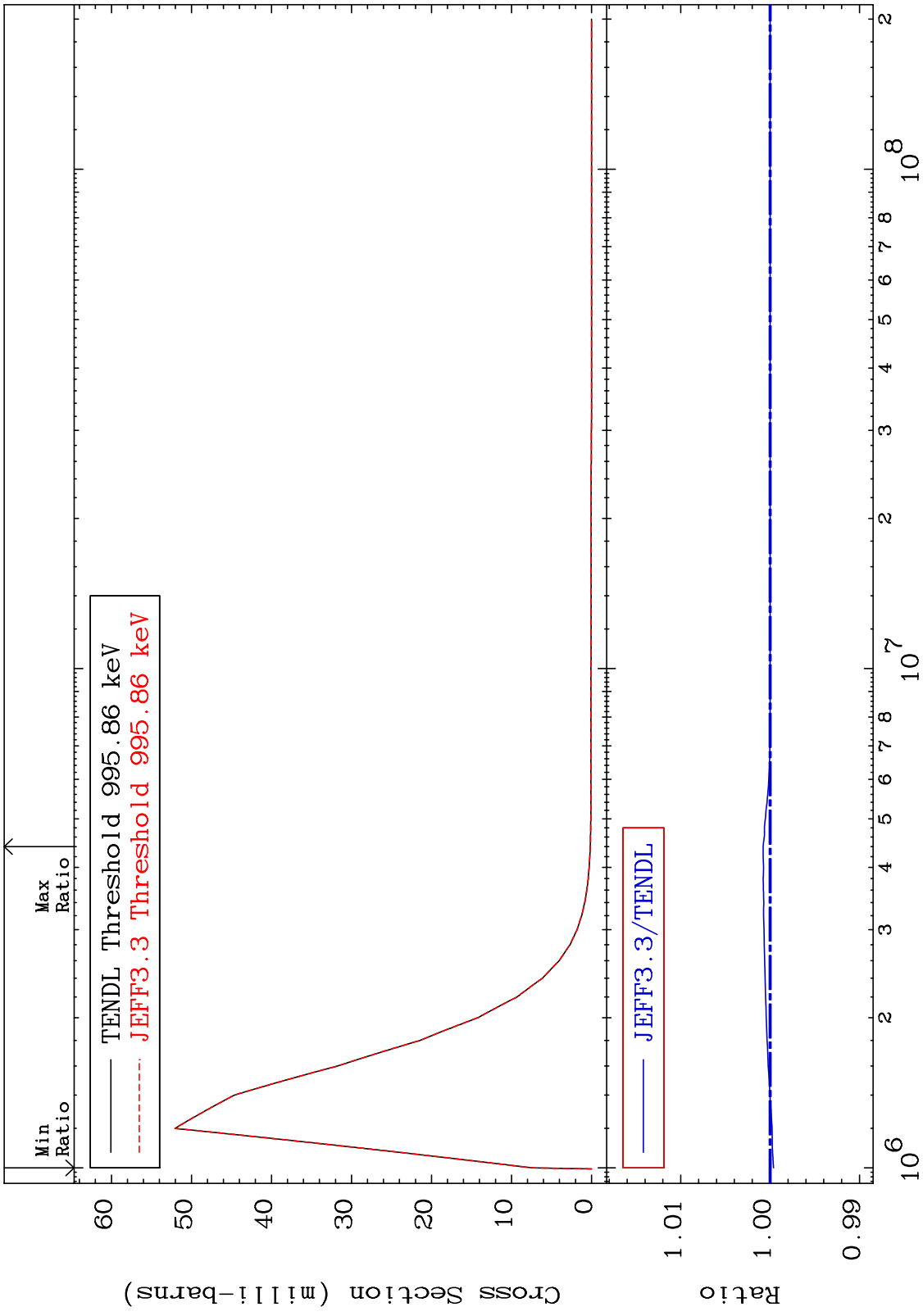
71-Lu-175

MAT 7125 MT= 78 (n,n') Level Cross Section 71-Lu-175  
-0.037 To 0.381 %

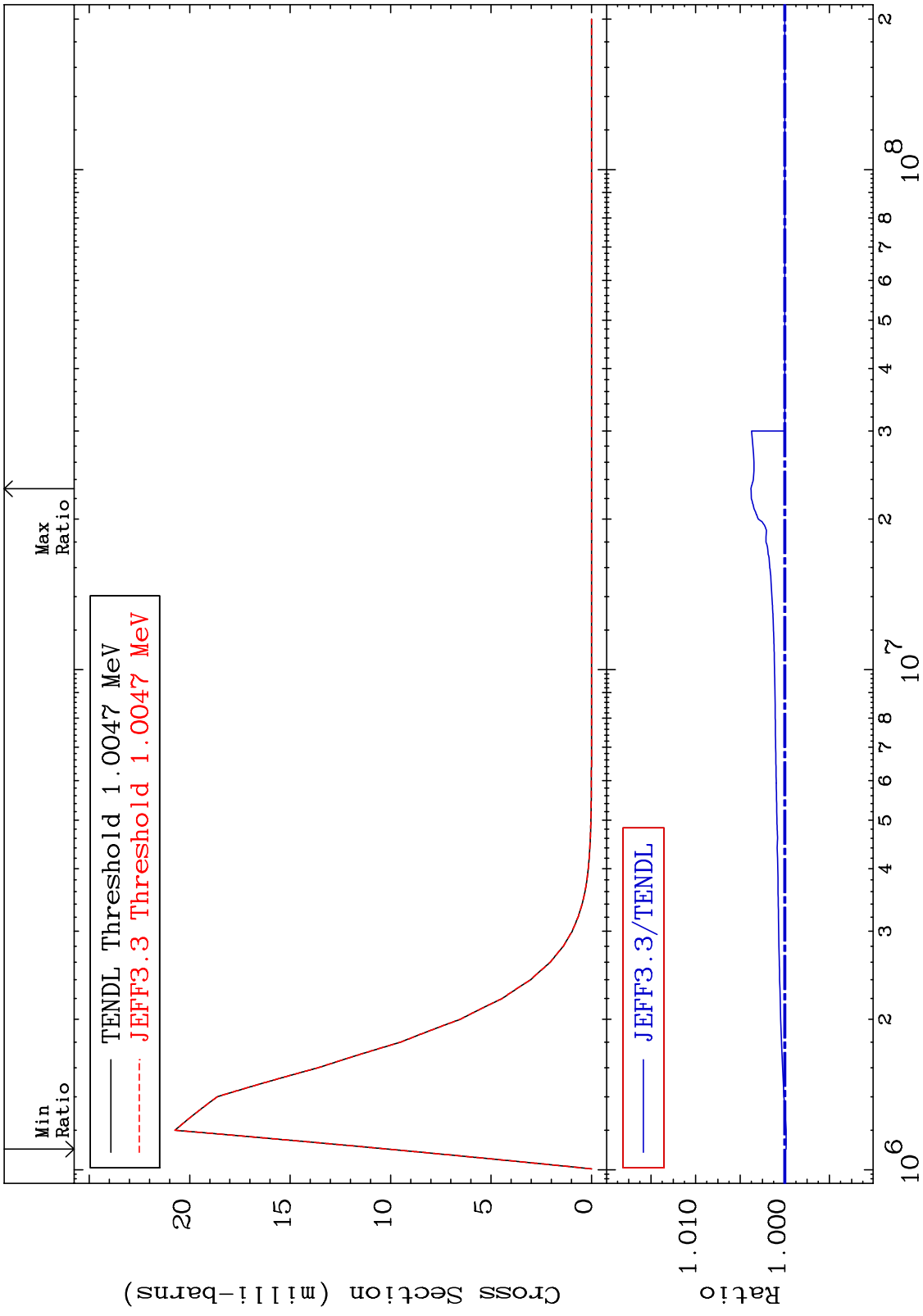


47 71-Lu-175

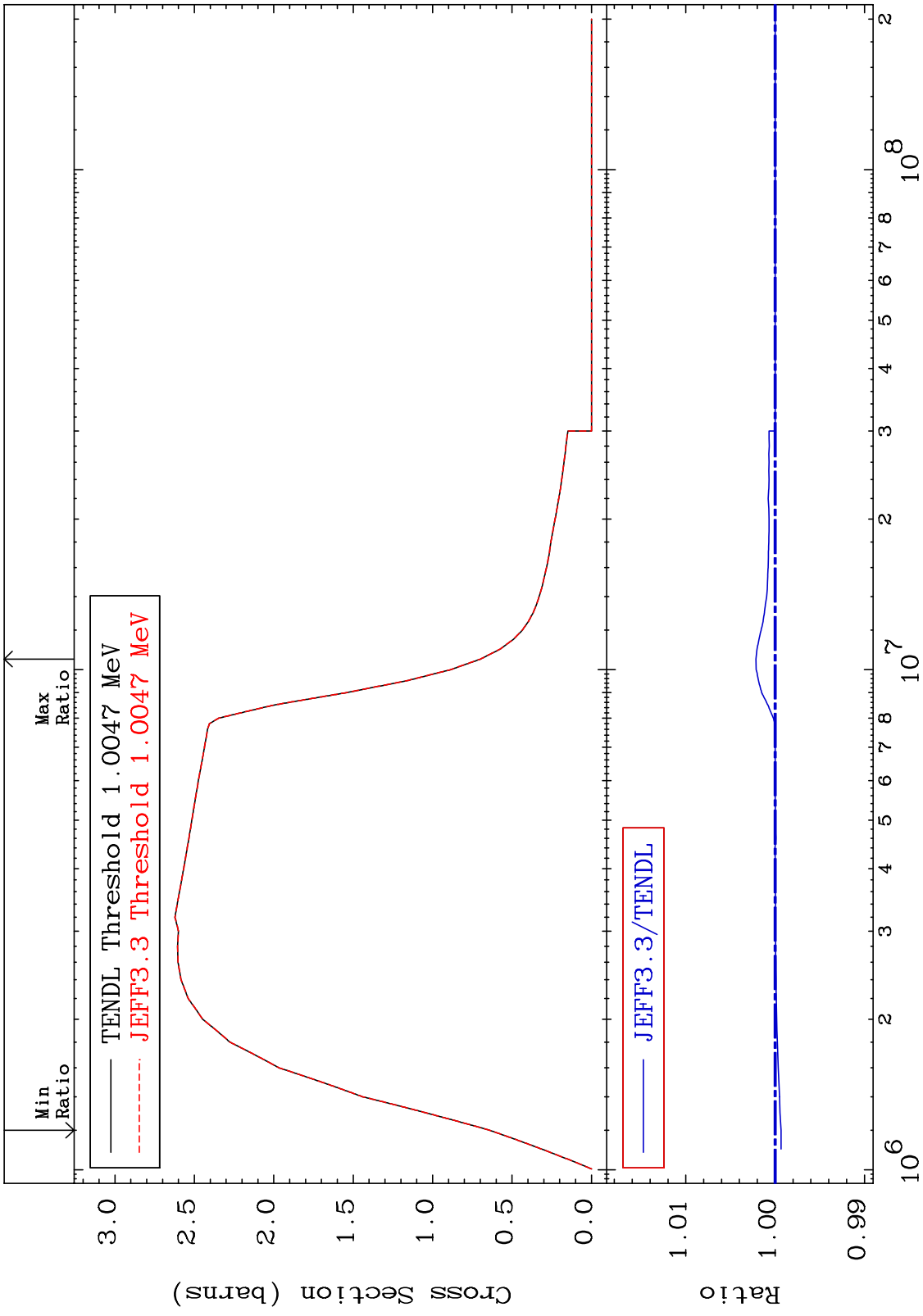
MAT 7125 MT= 79 (n,n') Level Cross Section 71-Lu-175 -0.040 To 0.078 %



MAT 7125 MT= 80 (n,n') Level Cross Section 71-Lu-175  
 -0.014 To 0.381 %



MAT 7125 (n, n') Continuum Cross Section 71-Lu-175 -0.065 To 0.215 %



50 71-Lu-175

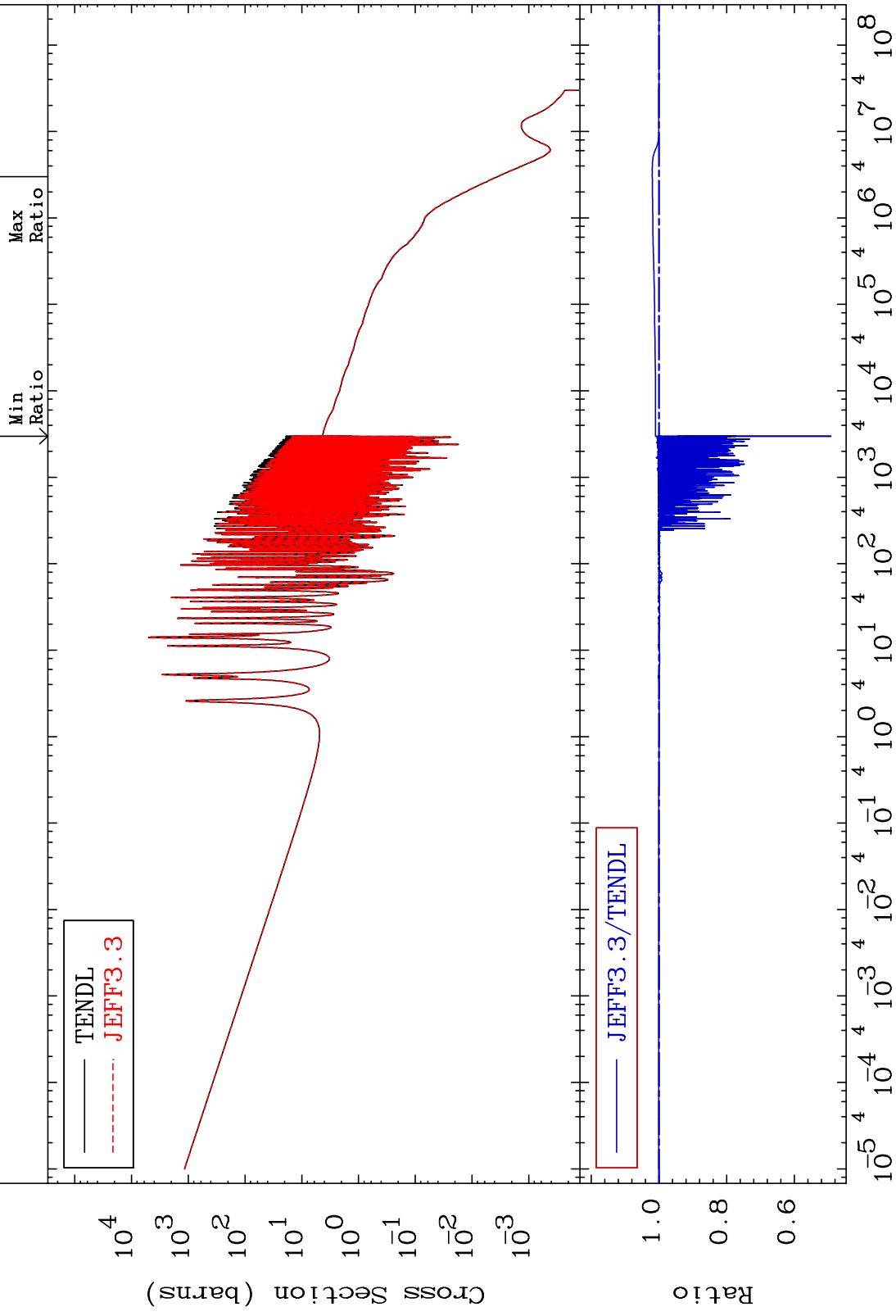
MAT 7125

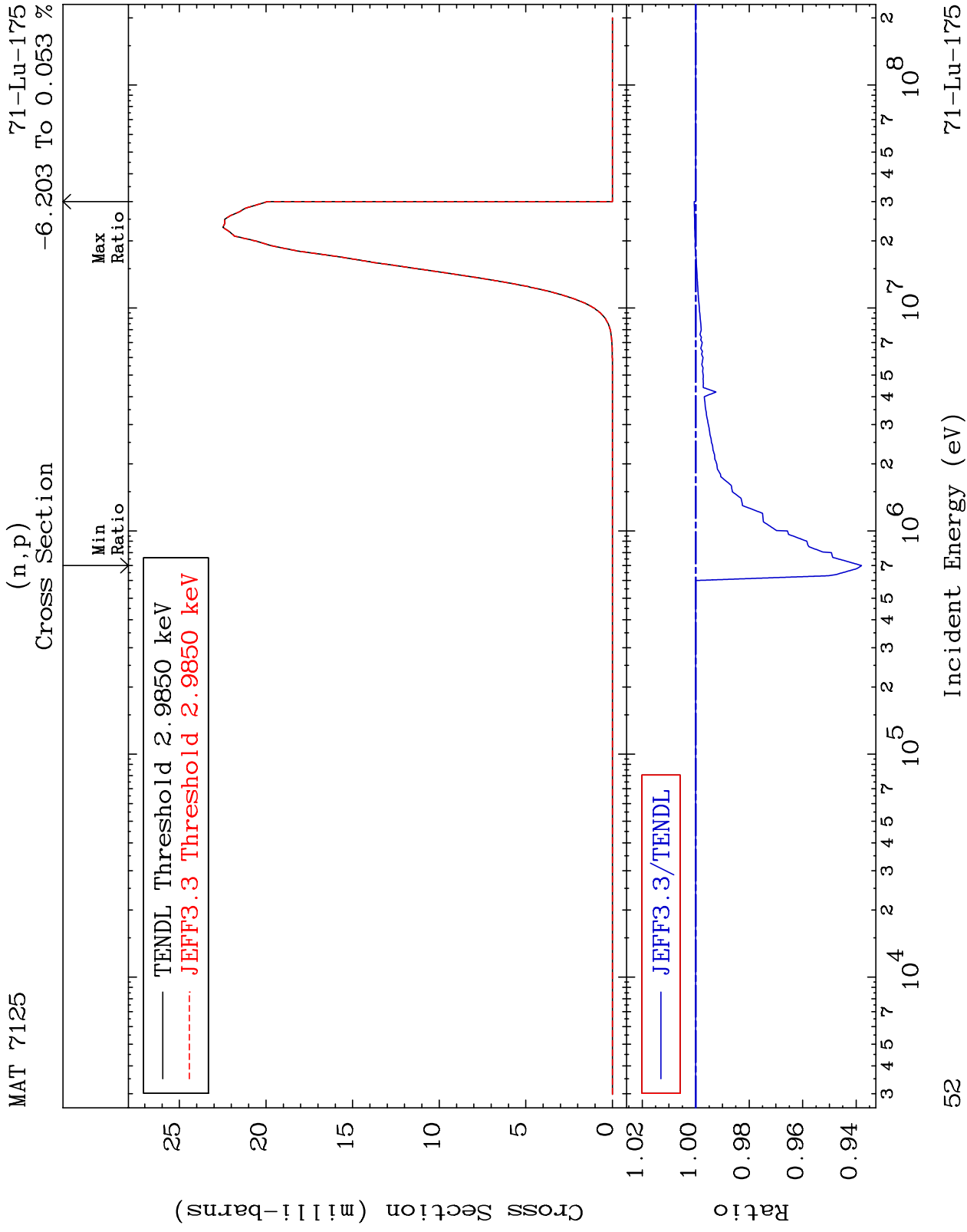
(n,  $\gamma$ )

71-Lu-175

Cross Section

-50.79 To 1.972 %





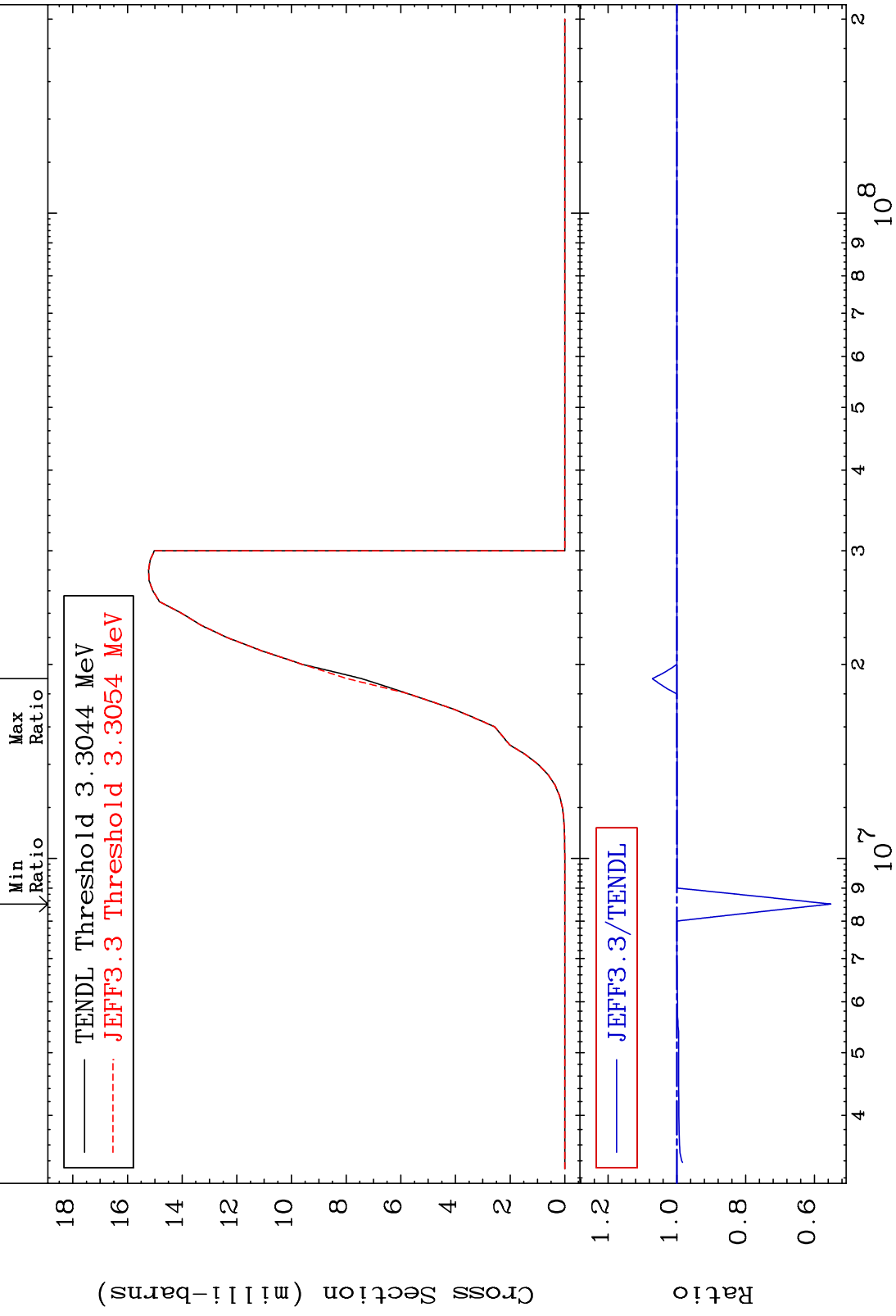
MAT 7125

(n,d)

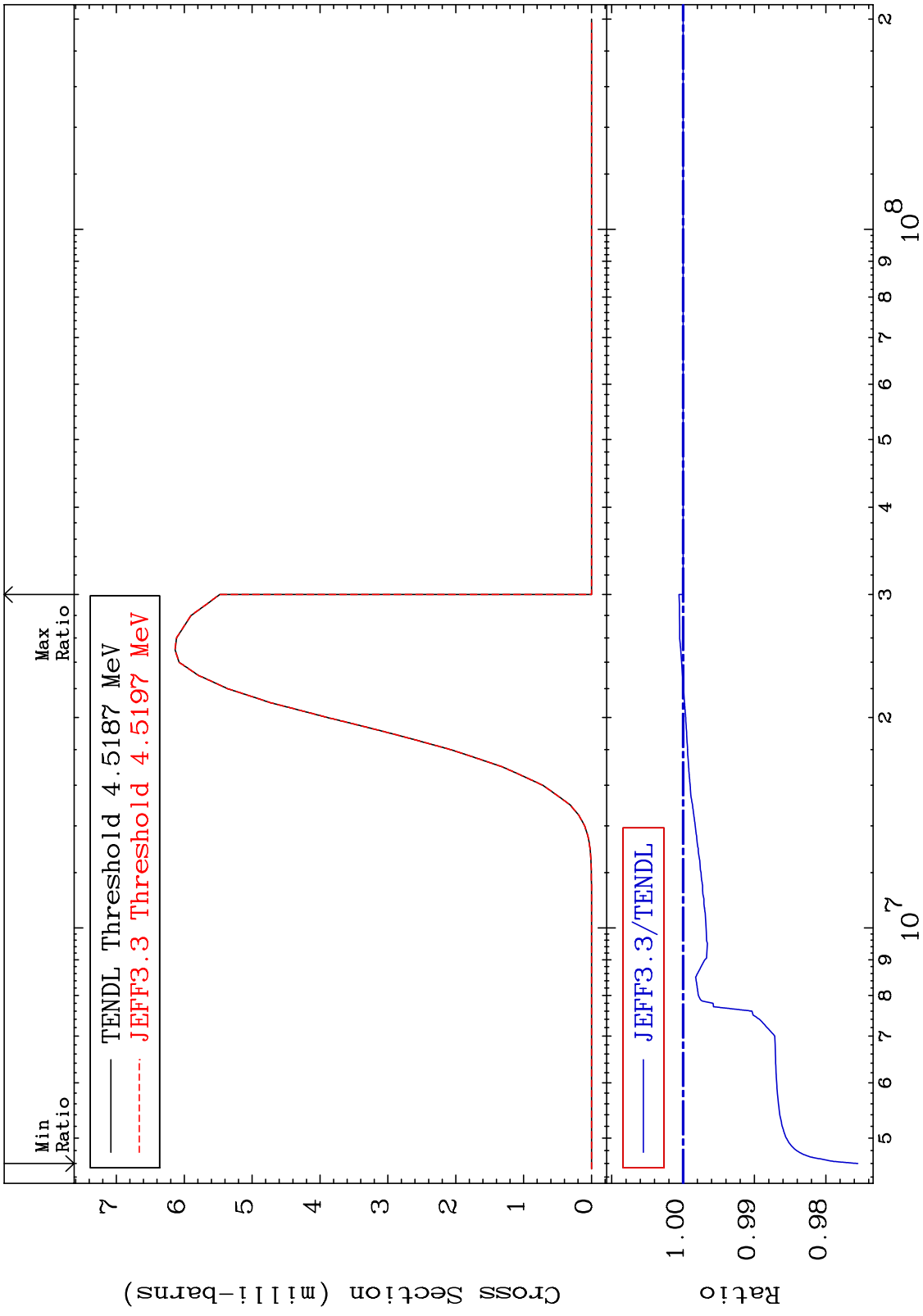
71-Lu-175

-44.78 To 7.177 %

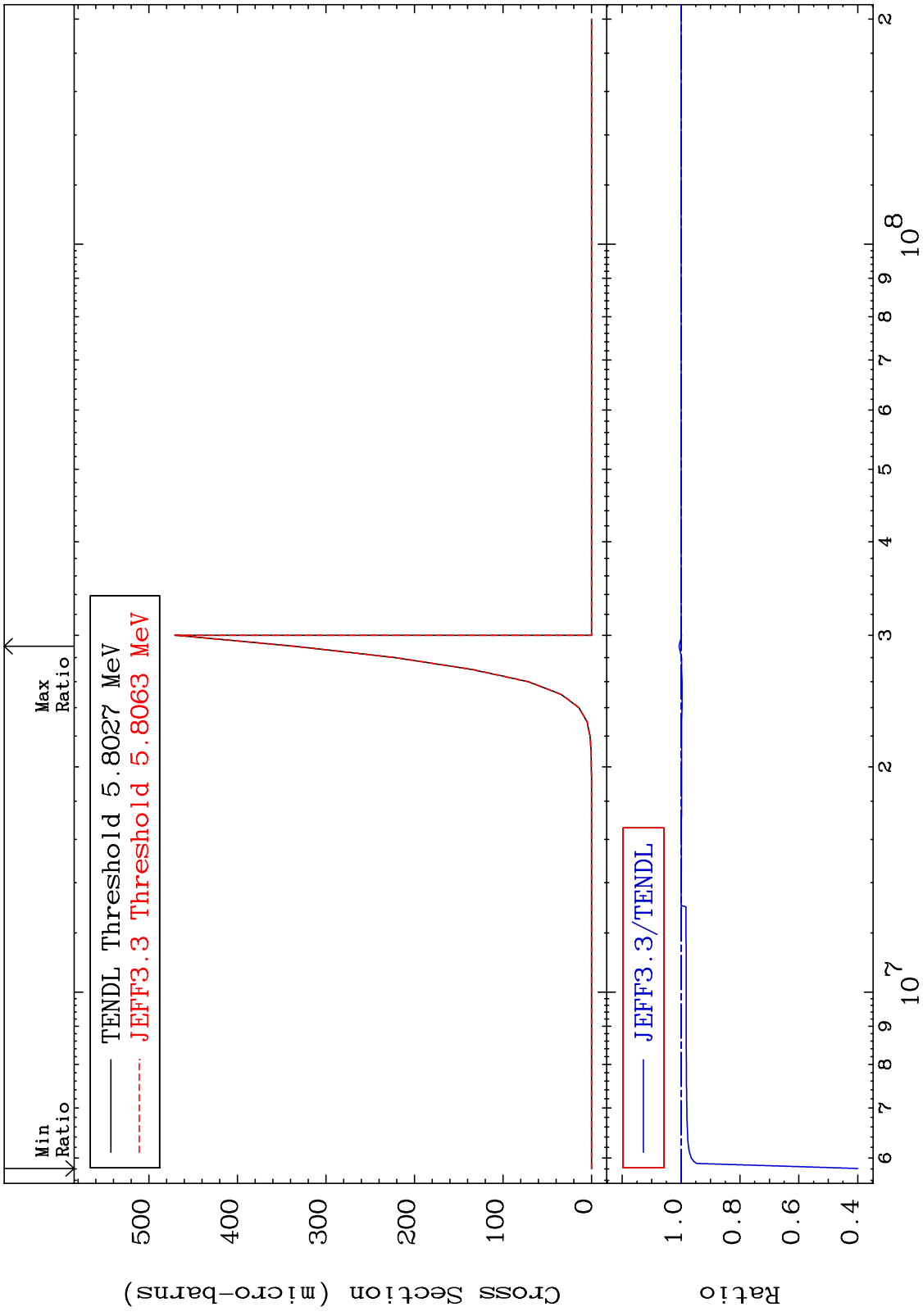
Cross Section



MAT 7125 71-Lu-175  
-2.449 To 0.057 %



MAT 7125 71-Lu-175  
-60.04 To 0.695 %  
 (n, He-3)  
 Cross Section



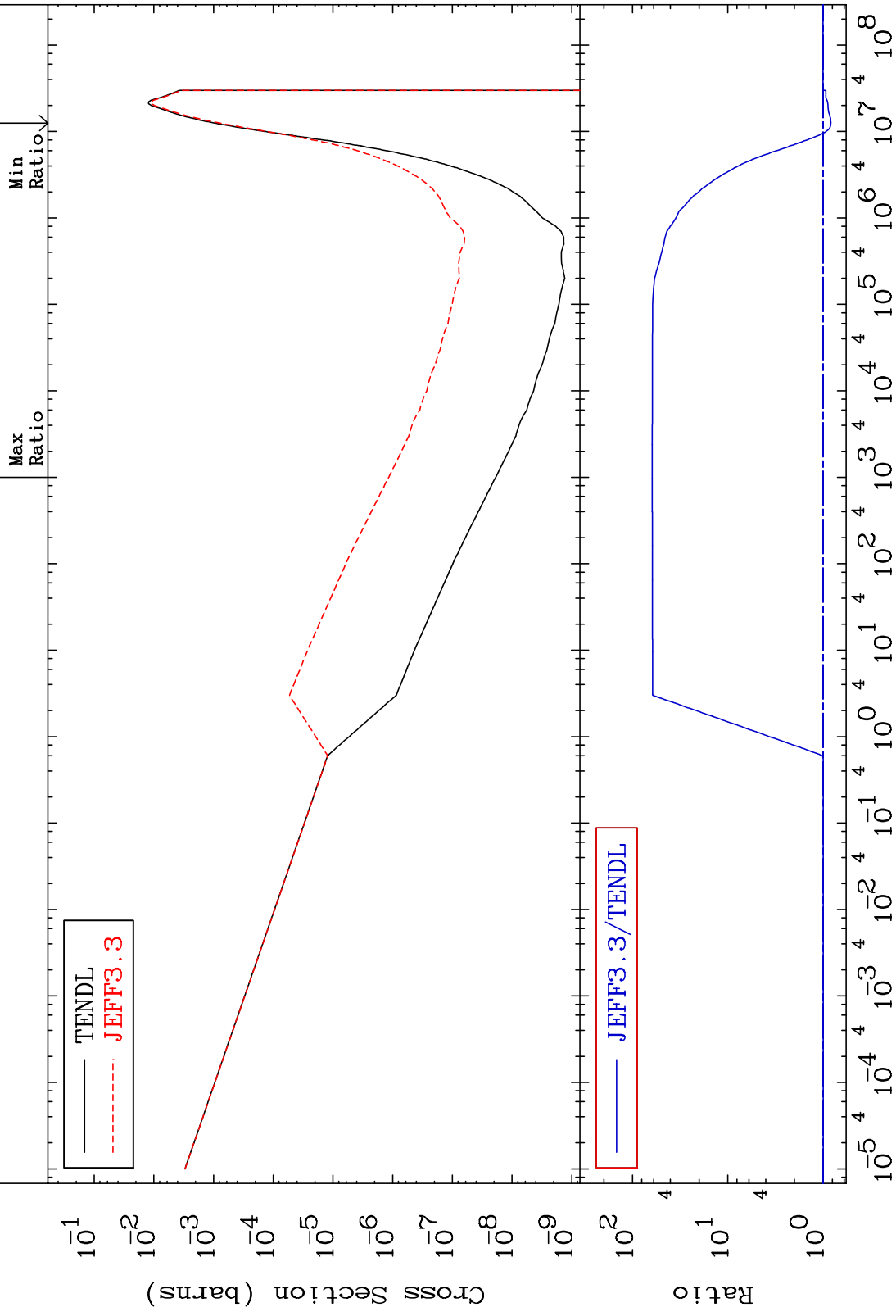
MAT 7125

(n,  $\alpha$ )

71-Lu-175

-17.18 To 6105. %

Cross Section



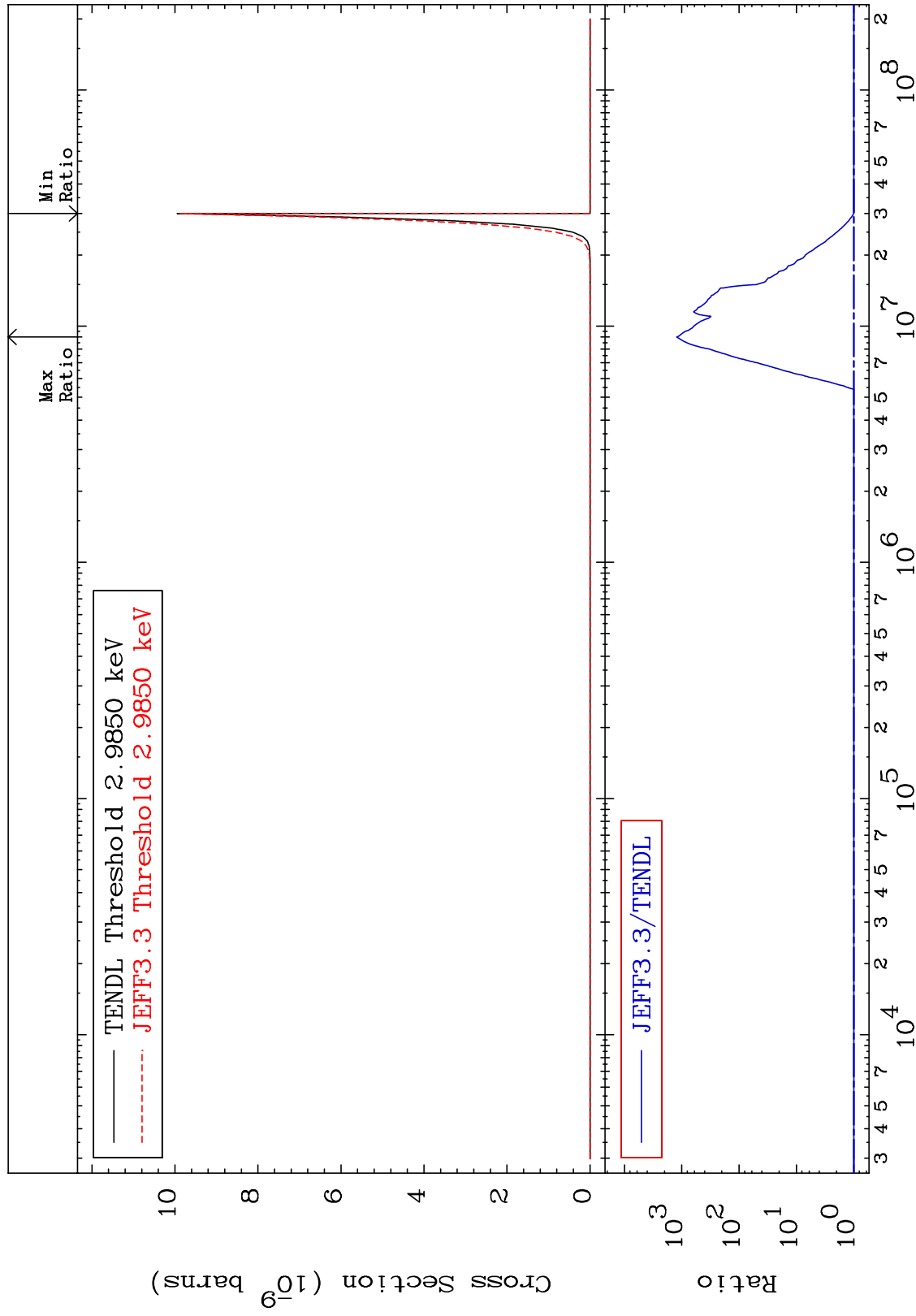
MAT 7125

(n,2α)

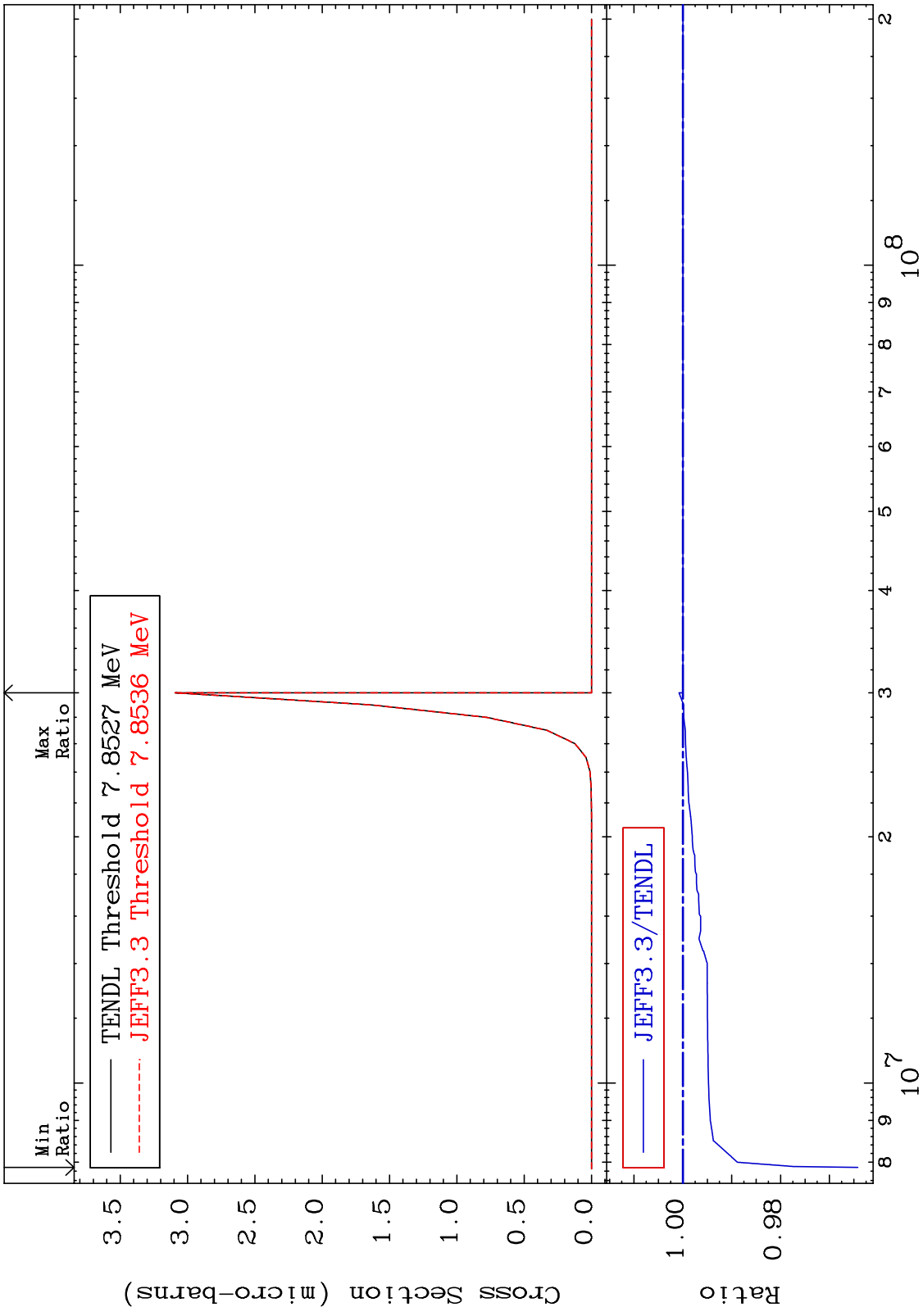
71-Lu-175

Cross Section

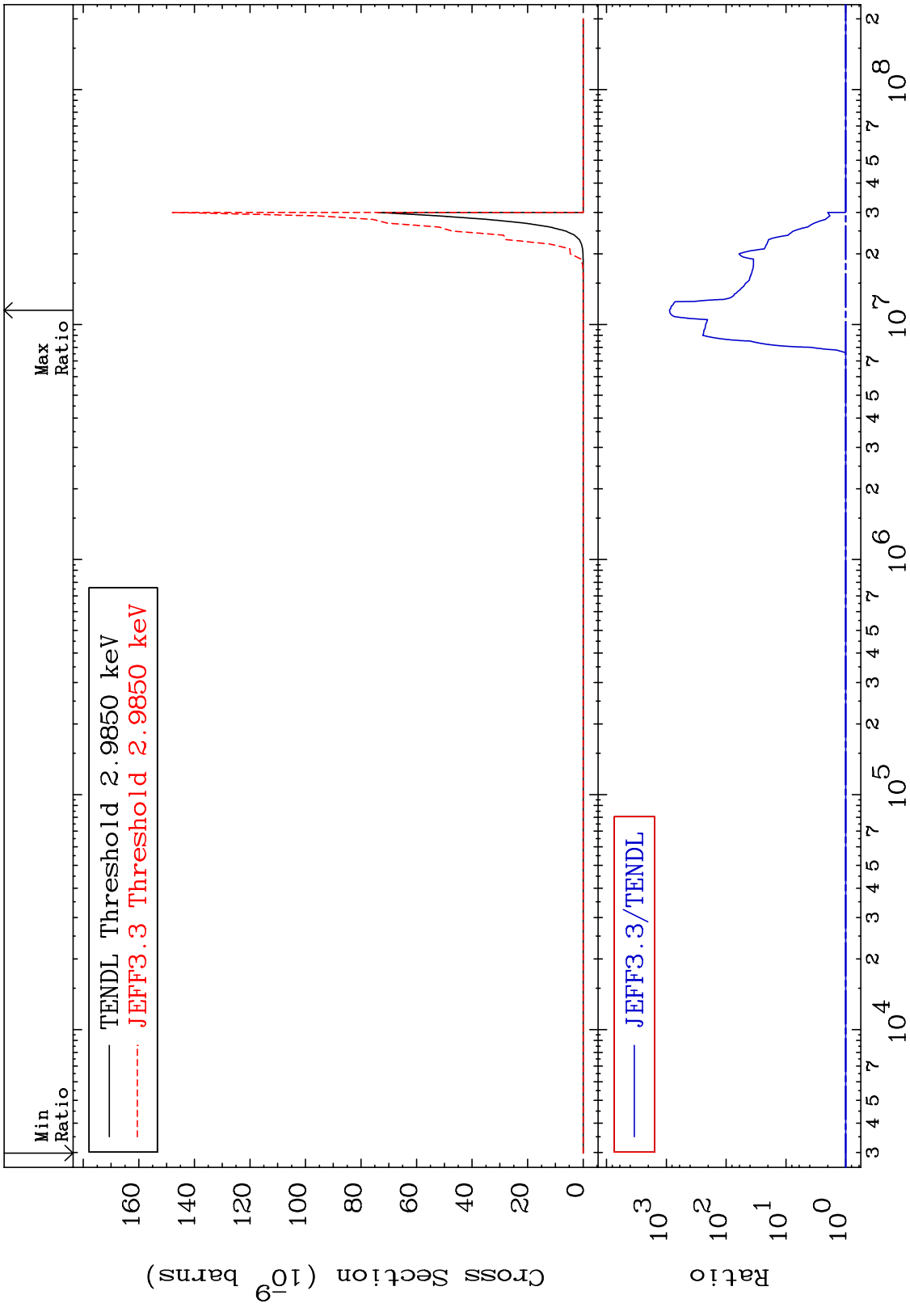
-0.600 To 9999. %



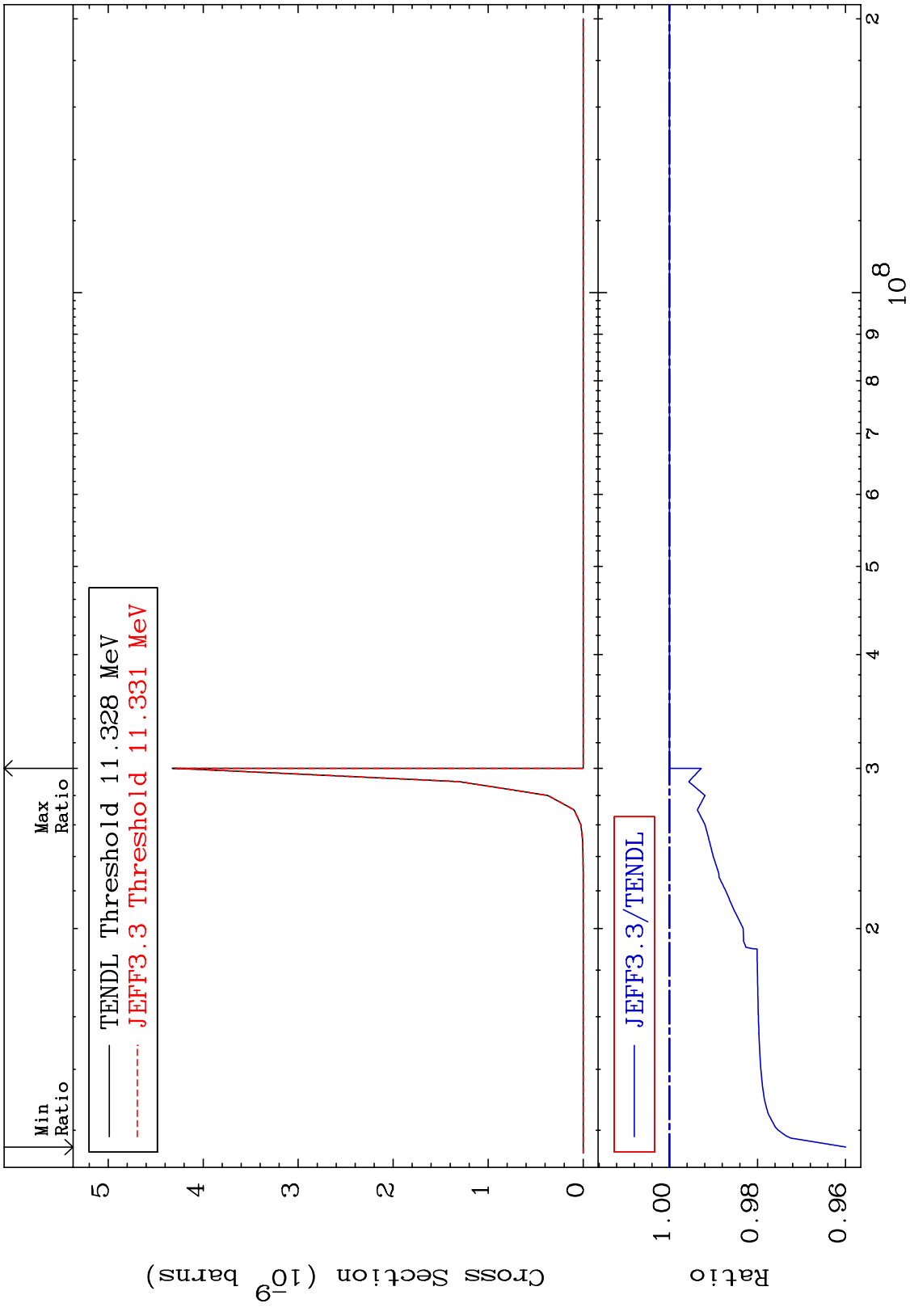
MAT 7125  $(n,2p)$  71-Lu-175  
Cross Section -3.582 To 0.078 %

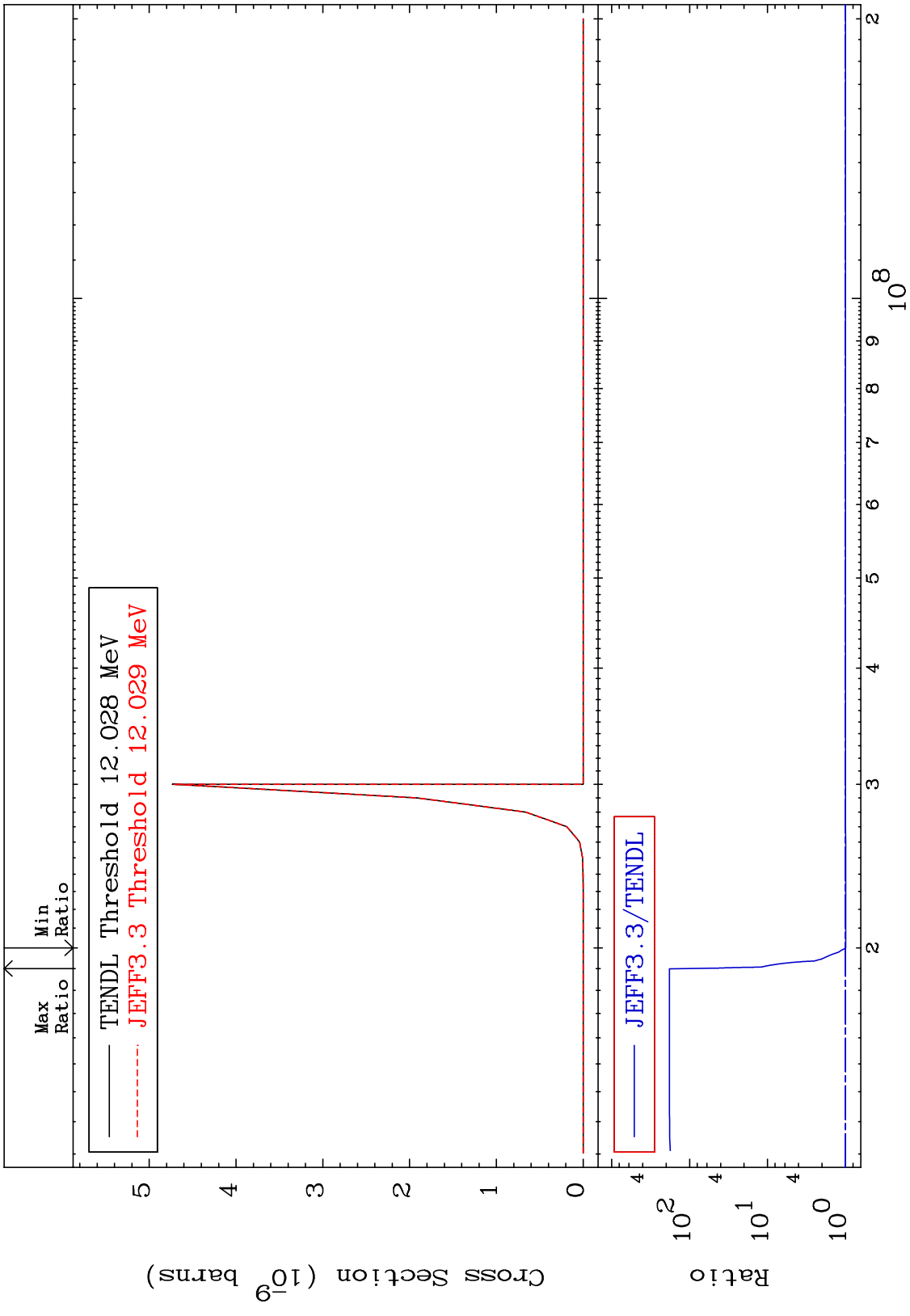


MAT 7125 (n,p)  $\alpha$  71-Lu-175  
 Cross Section To 9999. %

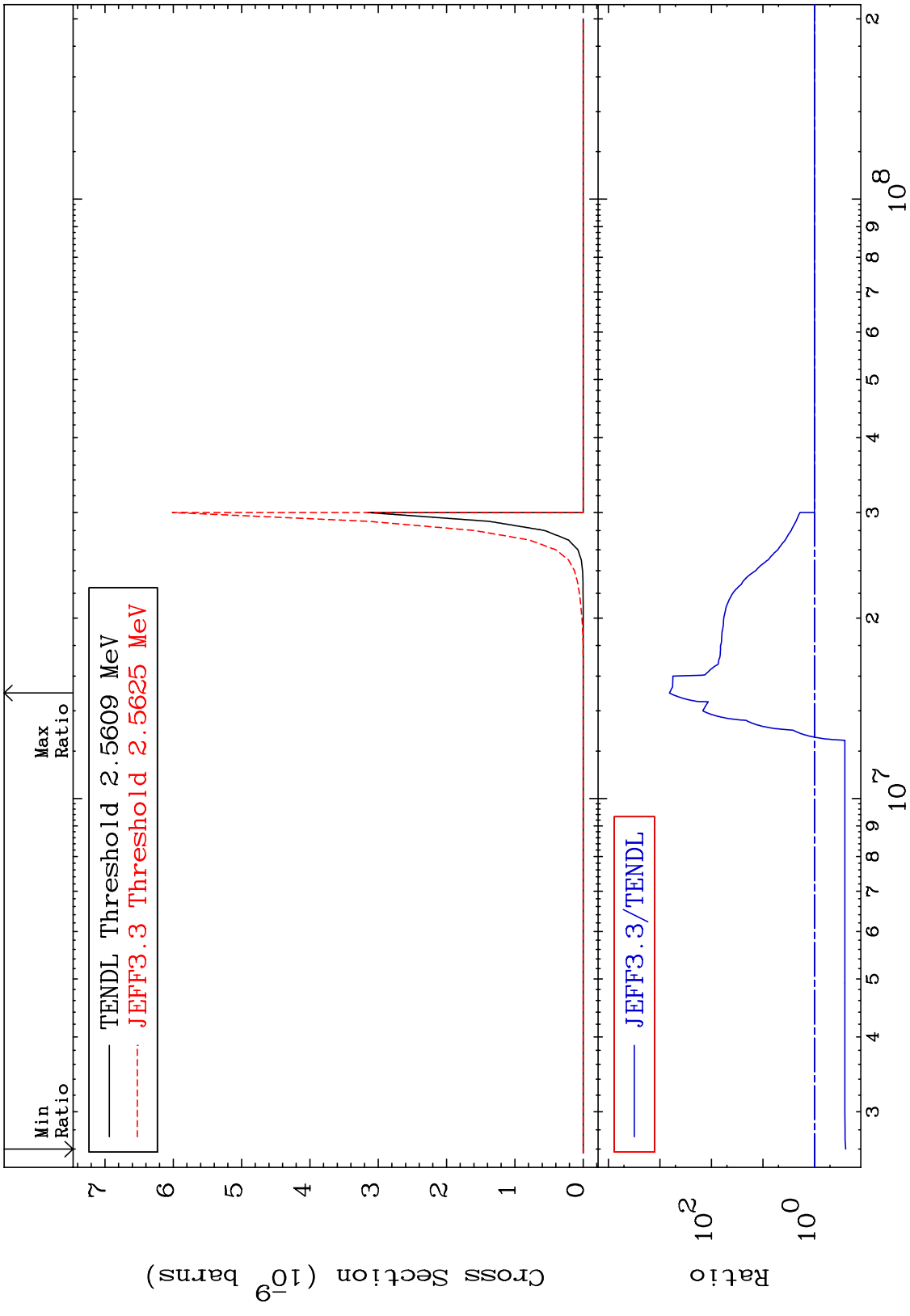


MAT 7125 (n,p) d 71-Lu-175  
Cross Section -4.006 To 0.000 %





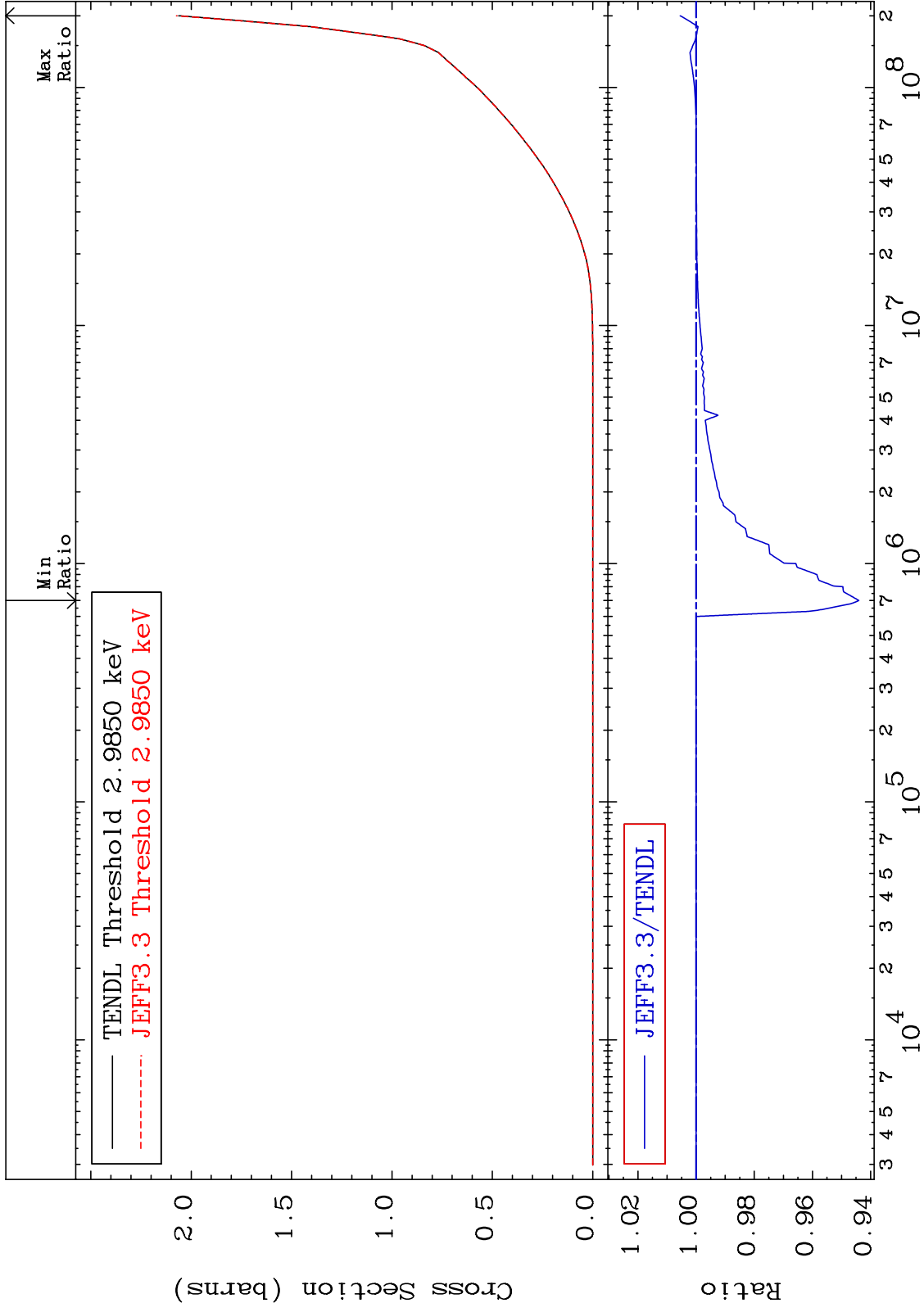
MAT 7125 71-Lu-175  
-75.40 To 9999. %  
 (n,d)  $\alpha$   
 Cross Section



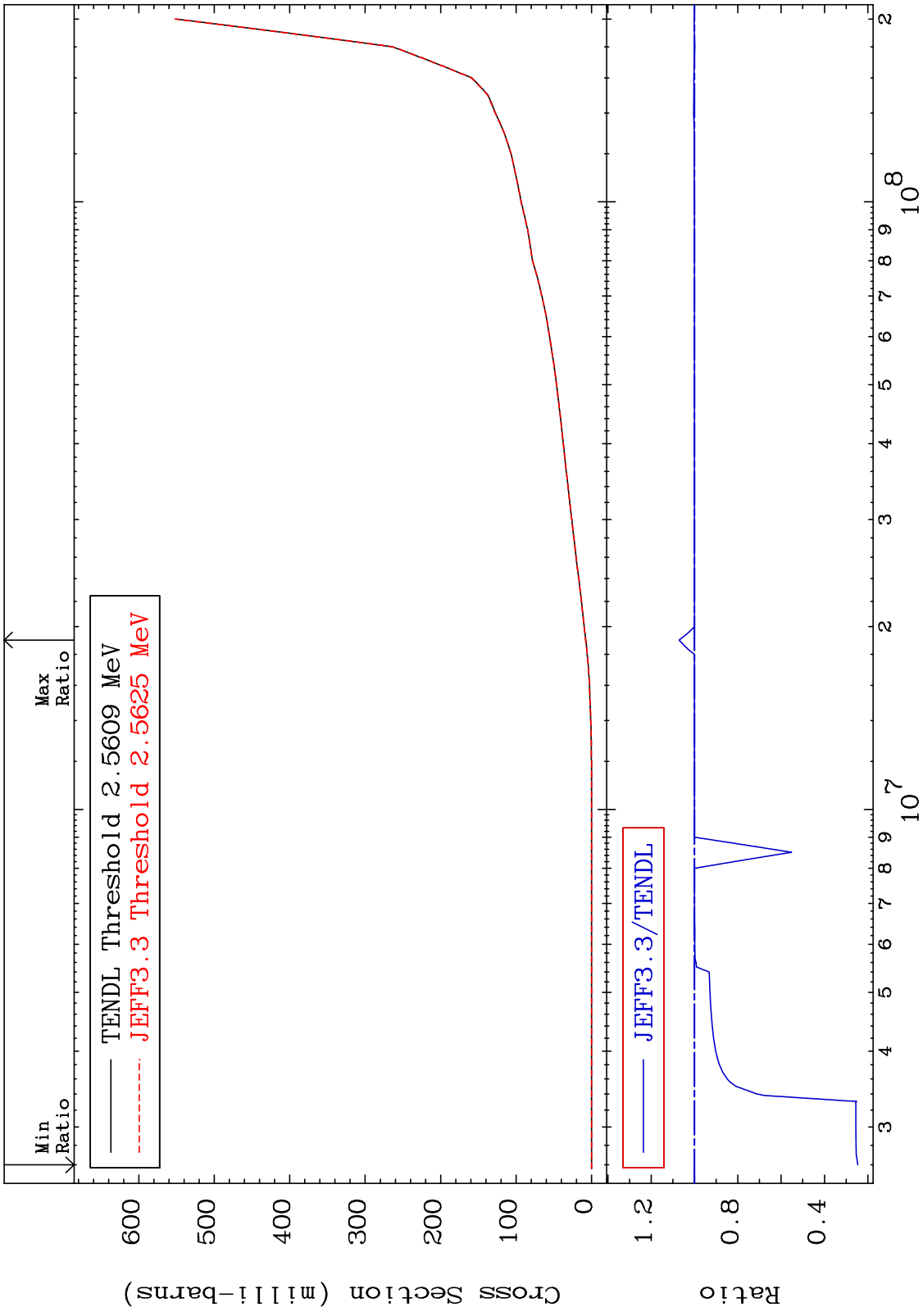
MAT 7125

Hydrogen Production  
Cross Section

71-Lu-175  
-5.597 To 0.547 %



MAT 7125 Deuterium Production Cross Section 71-Lu-175  
 -75.40 To 7.131 %

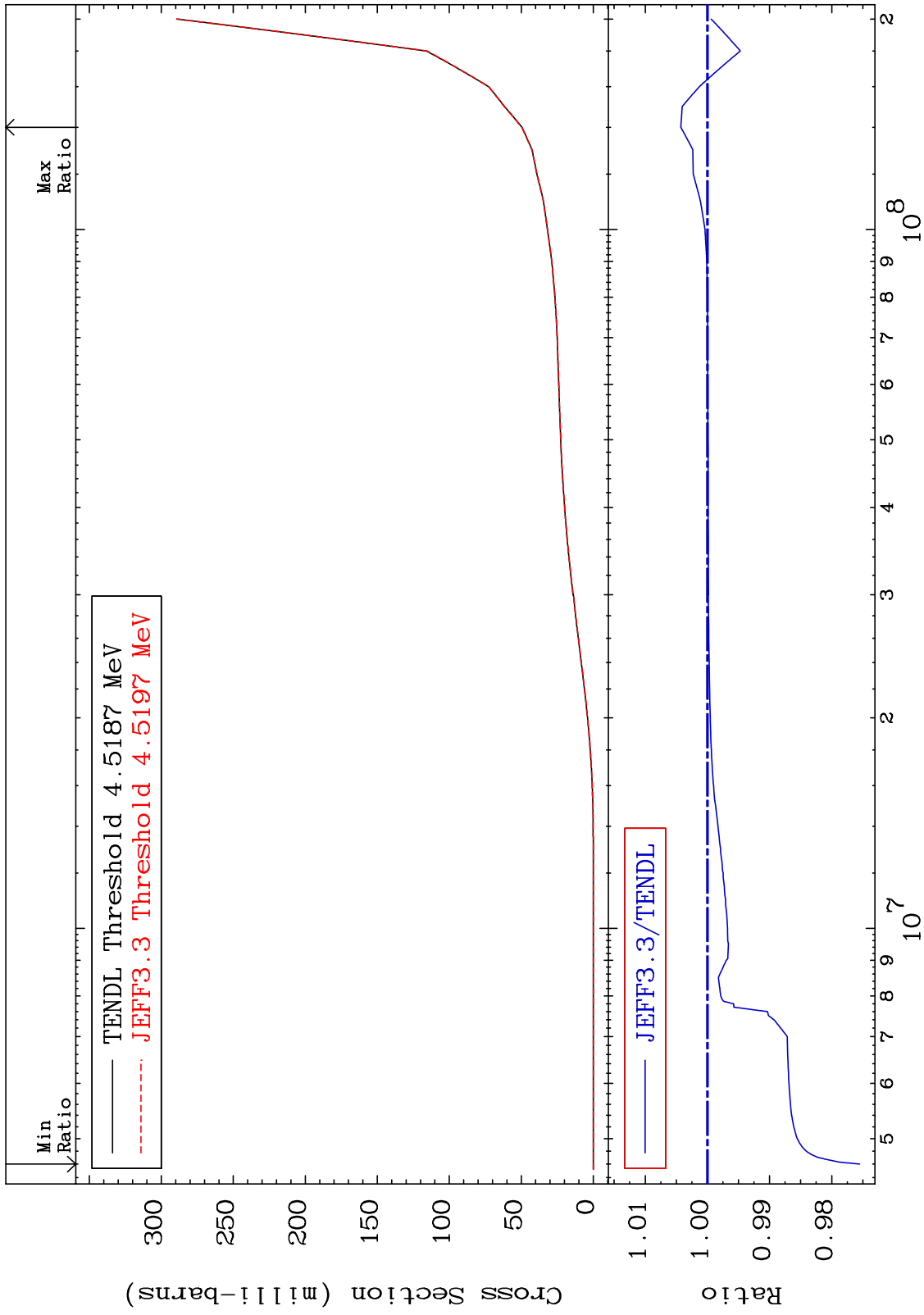


64 71-Lu-175

MAT 7125

Tritium Production  
Cross Section

71-Lu-175  
-2.449 To 0.428 %



65

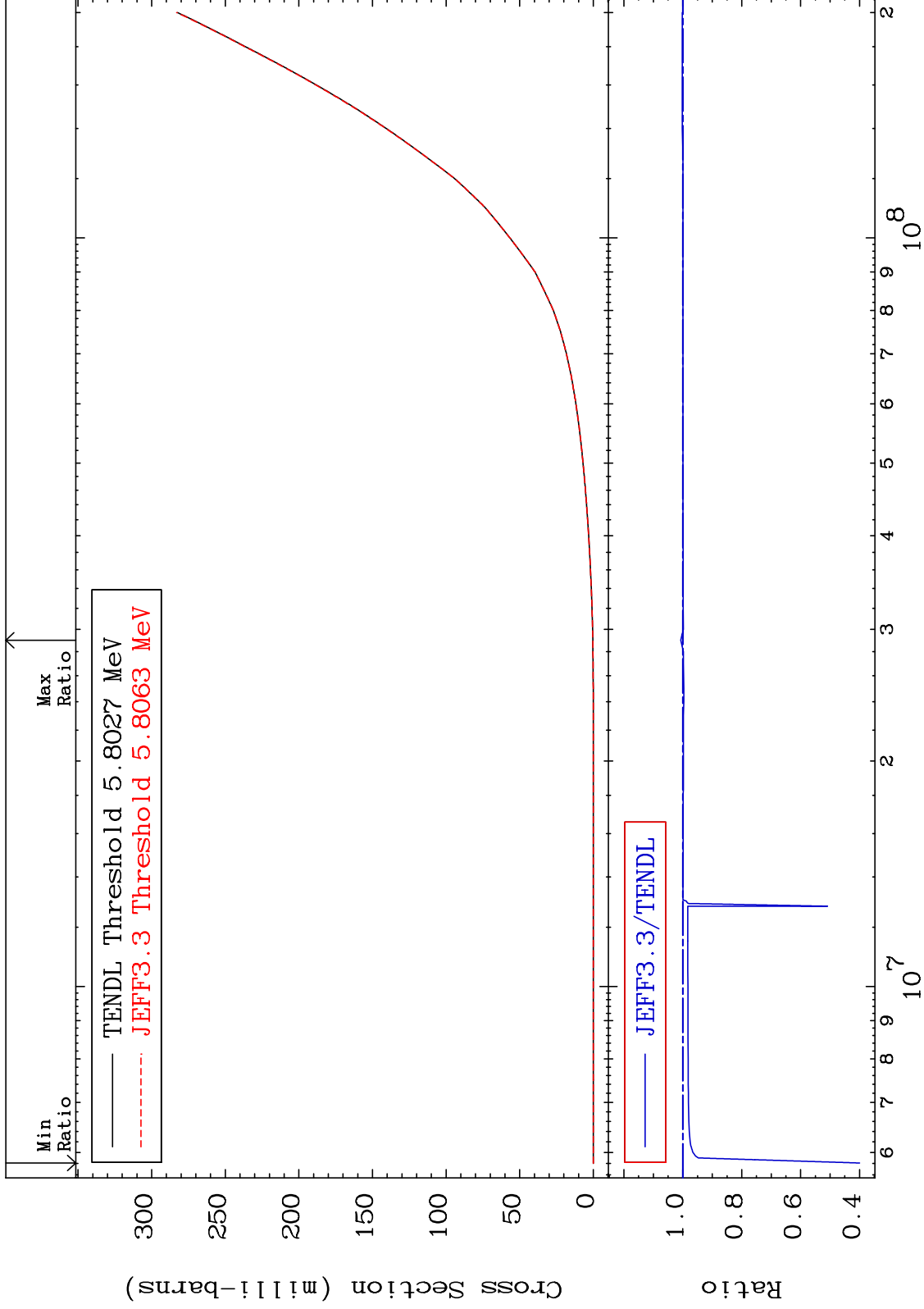
Incident Energy (eV)

71-Lu-175

MAT 7125

He-3 Production  
Cross Section

71-Lu-175  
-60.04 To 0.679 %



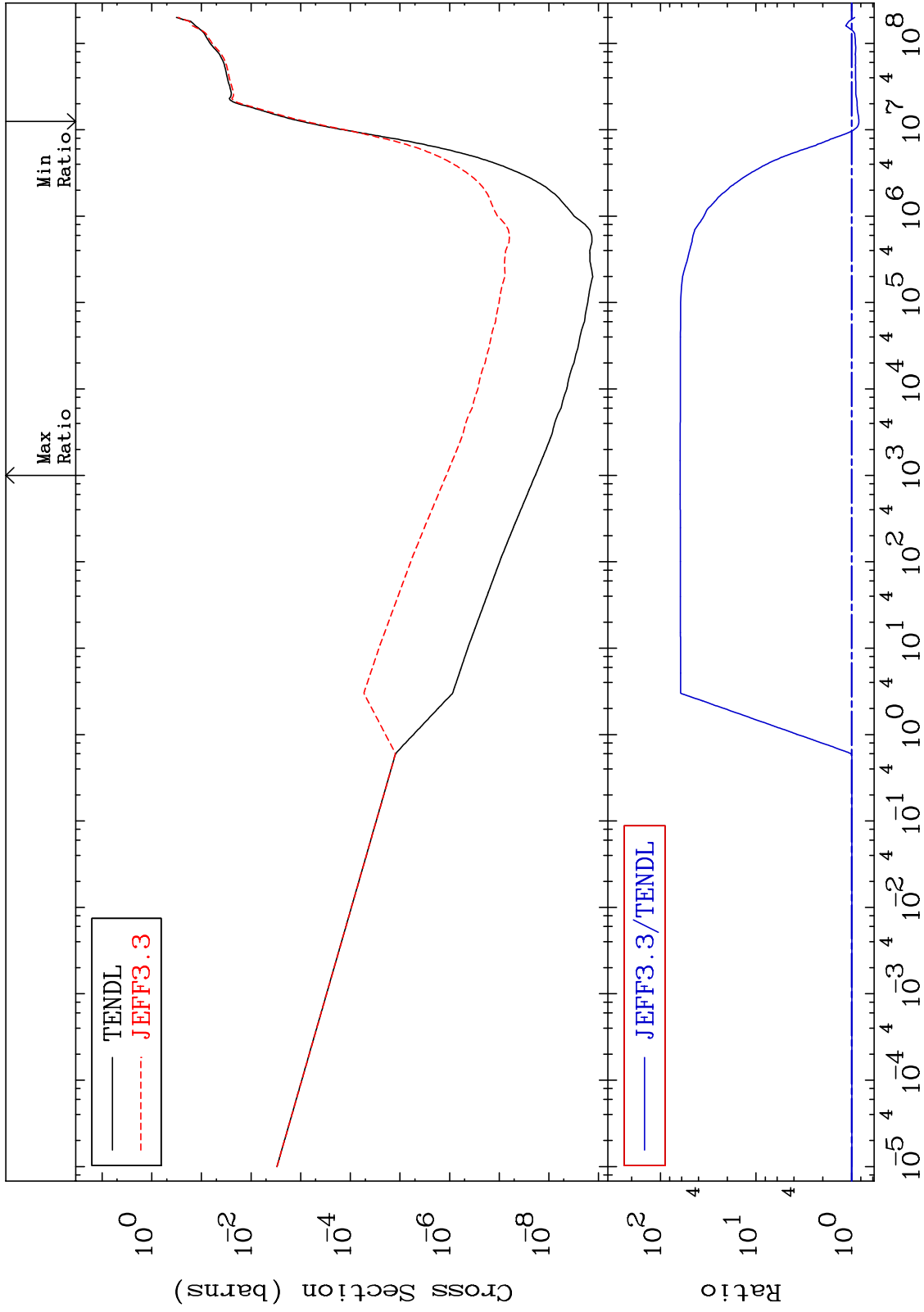
66

71-Lu-175

MAT 7125

He-4 Production  
Cross Section

71-Lu-175  
-16.03 To 6105. %

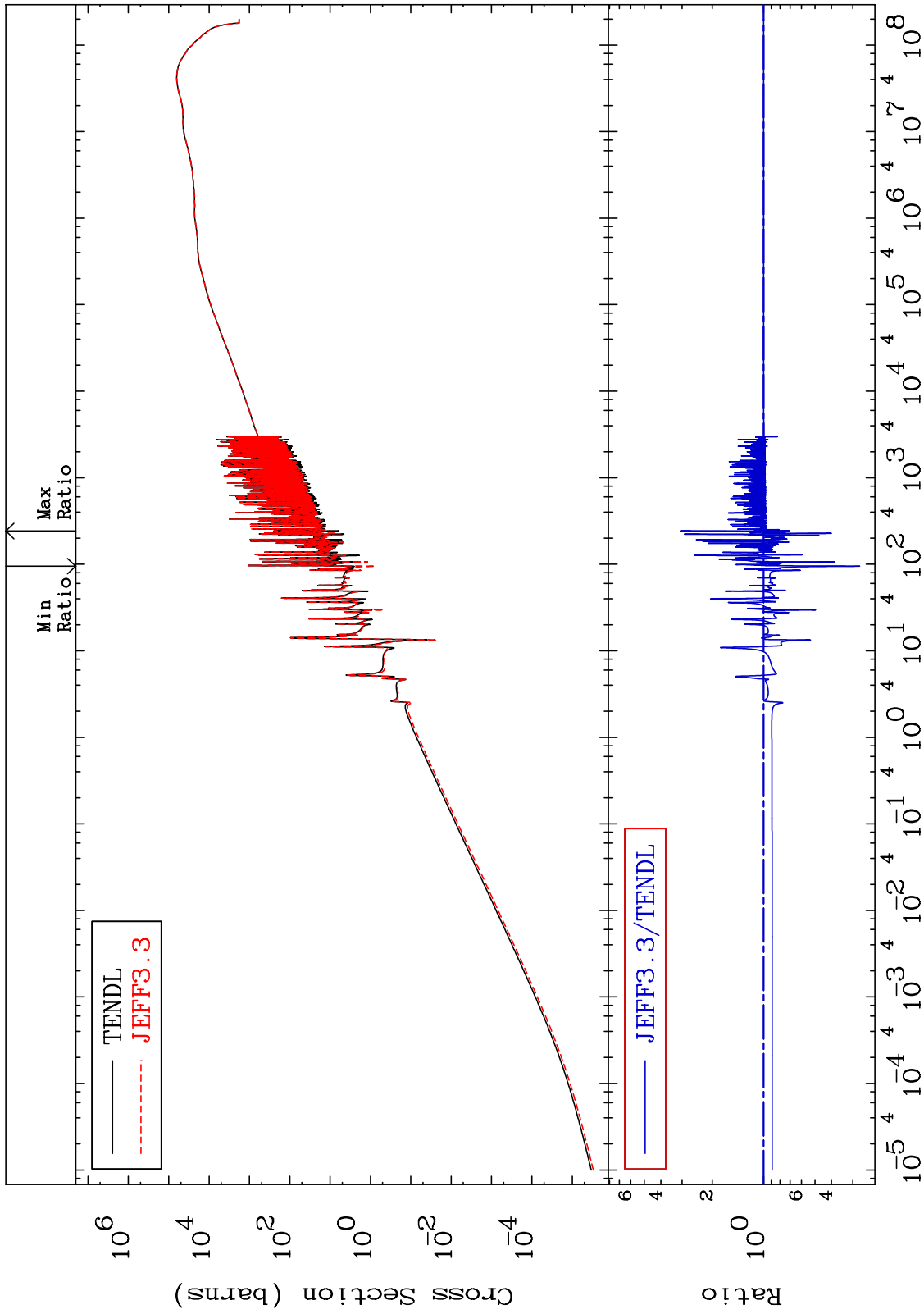




MAT 7125

Kerma elastic  
Cross Section

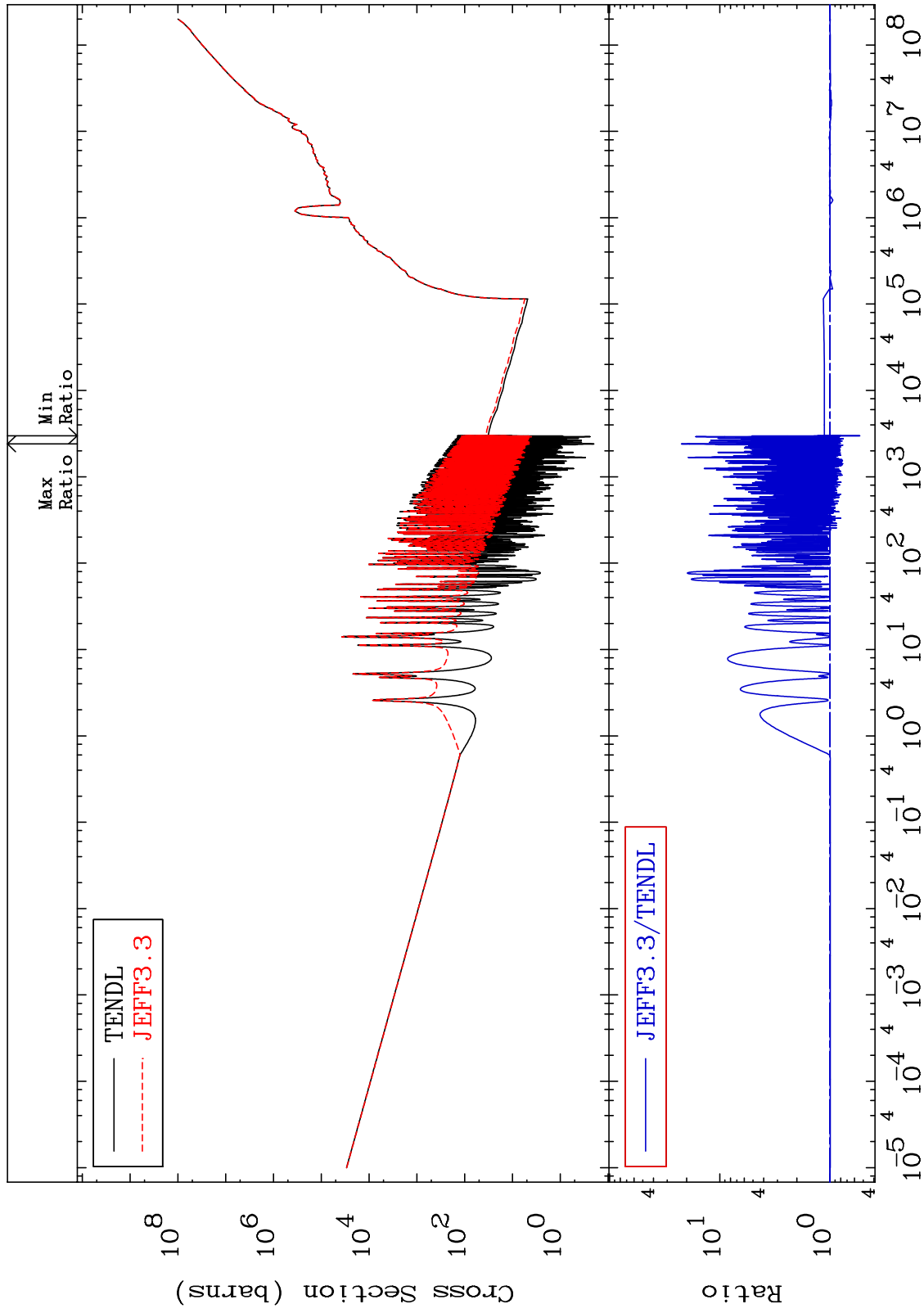
71-Lu-175  
-72.66 To 205.4 %



MAT 7125

Kerma non-elastic (all but mt2)  
Cross Section

71-Lu-175  
-46.35 To 2138. %

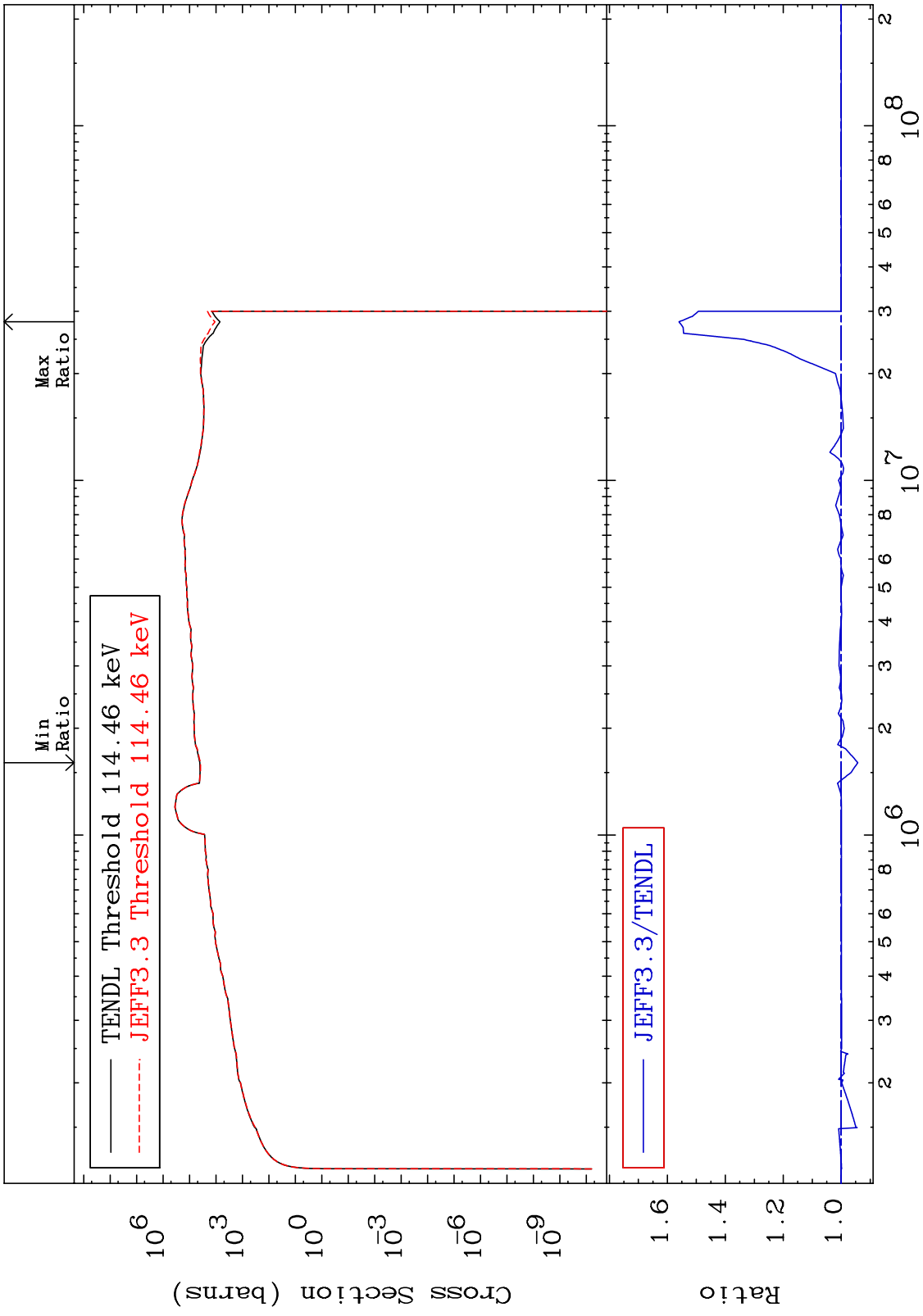


70

Incident Energy (eV)

71-Lu-175

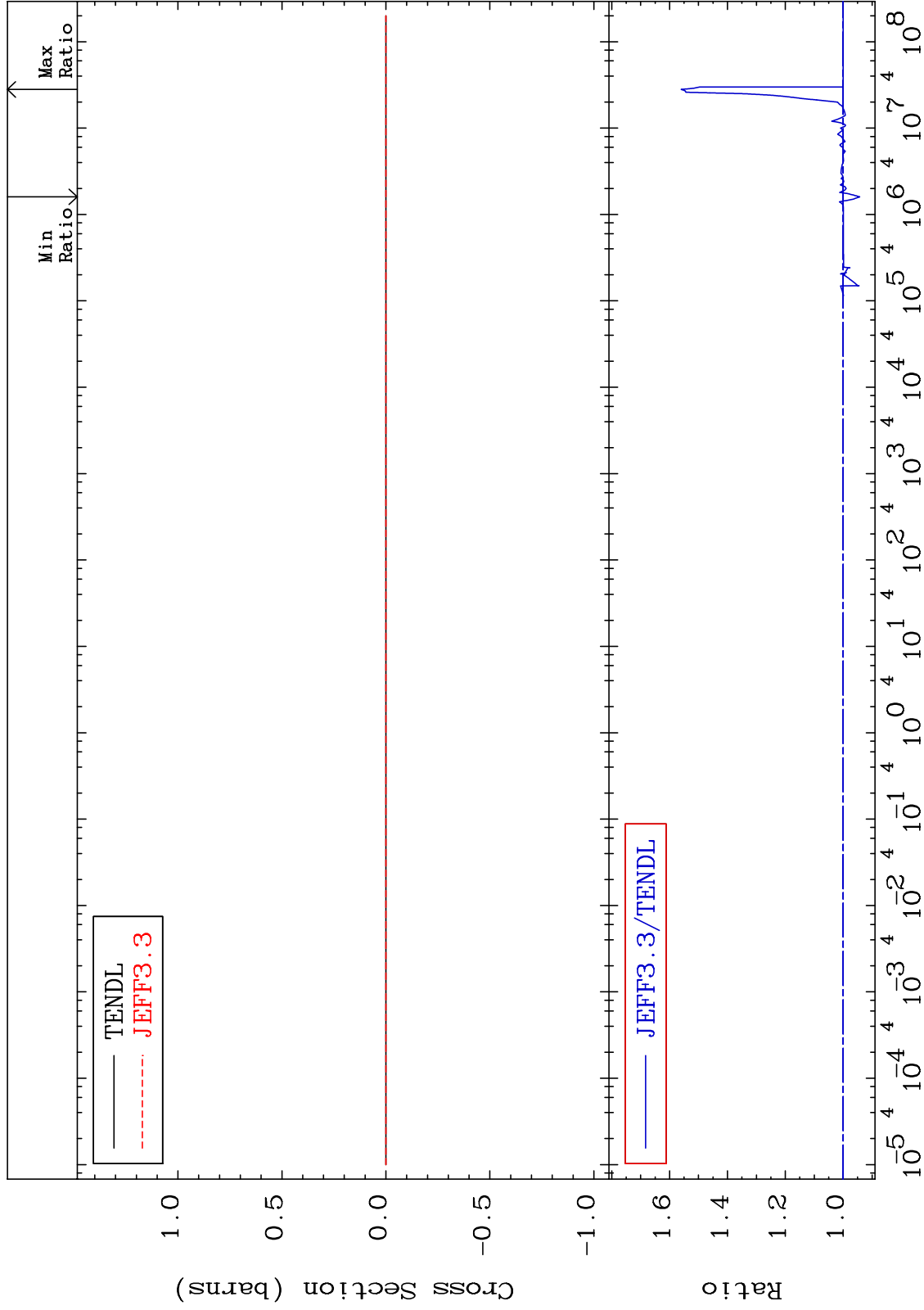
MAT 7125 Kerma inelastic (mt51-91) 71-Lu-175  
 Cross Section -5.740 To 55.98 %



MAT 7125

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

71-Lu-175  
-5.740 To 55.98 %



72

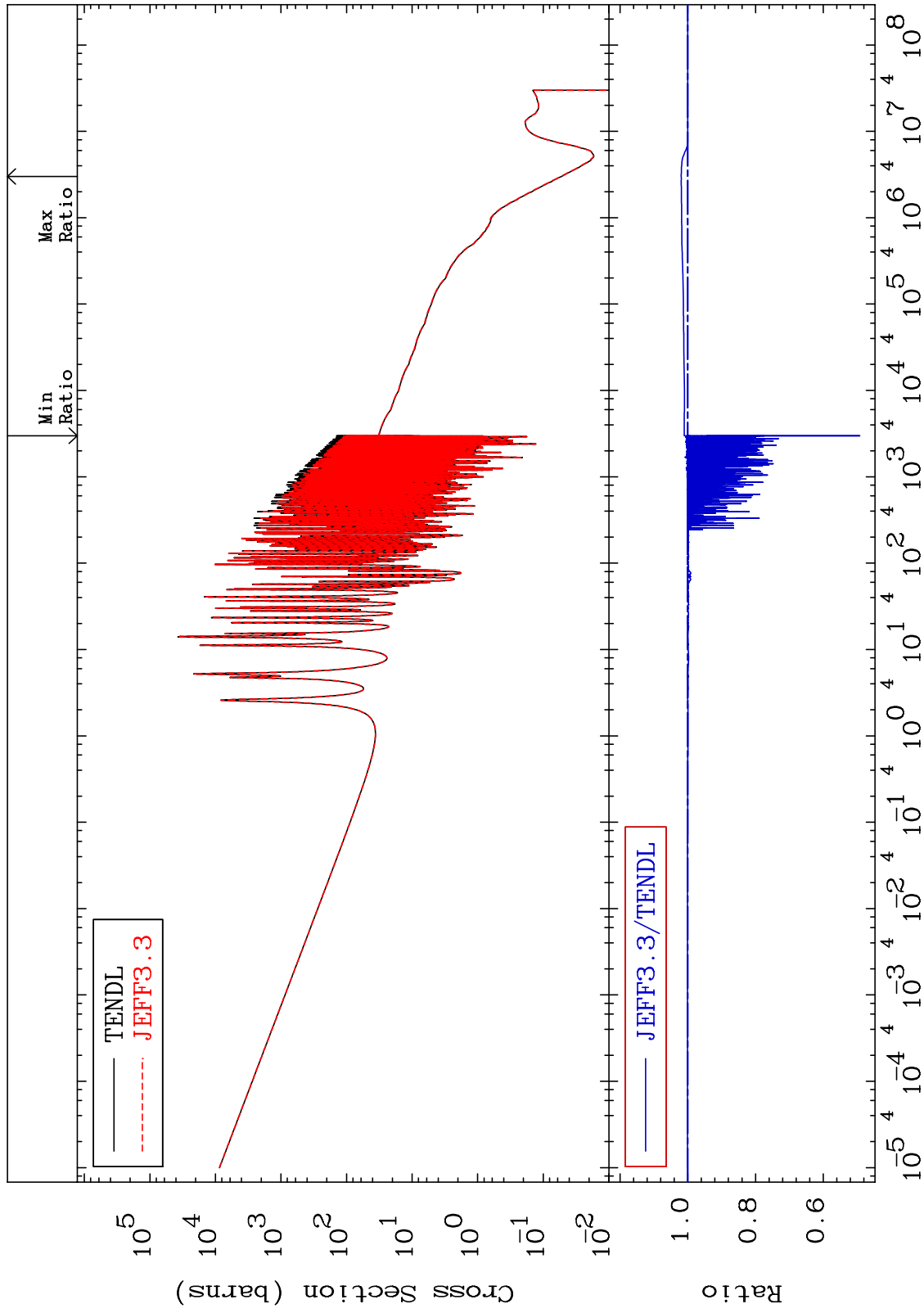
Incident Energy (eV)

71-Lu-175

MAT 7125

Kerma capture (mt102)  
Cross Section

71-Lu-175  
-50.79 To 1.930 %

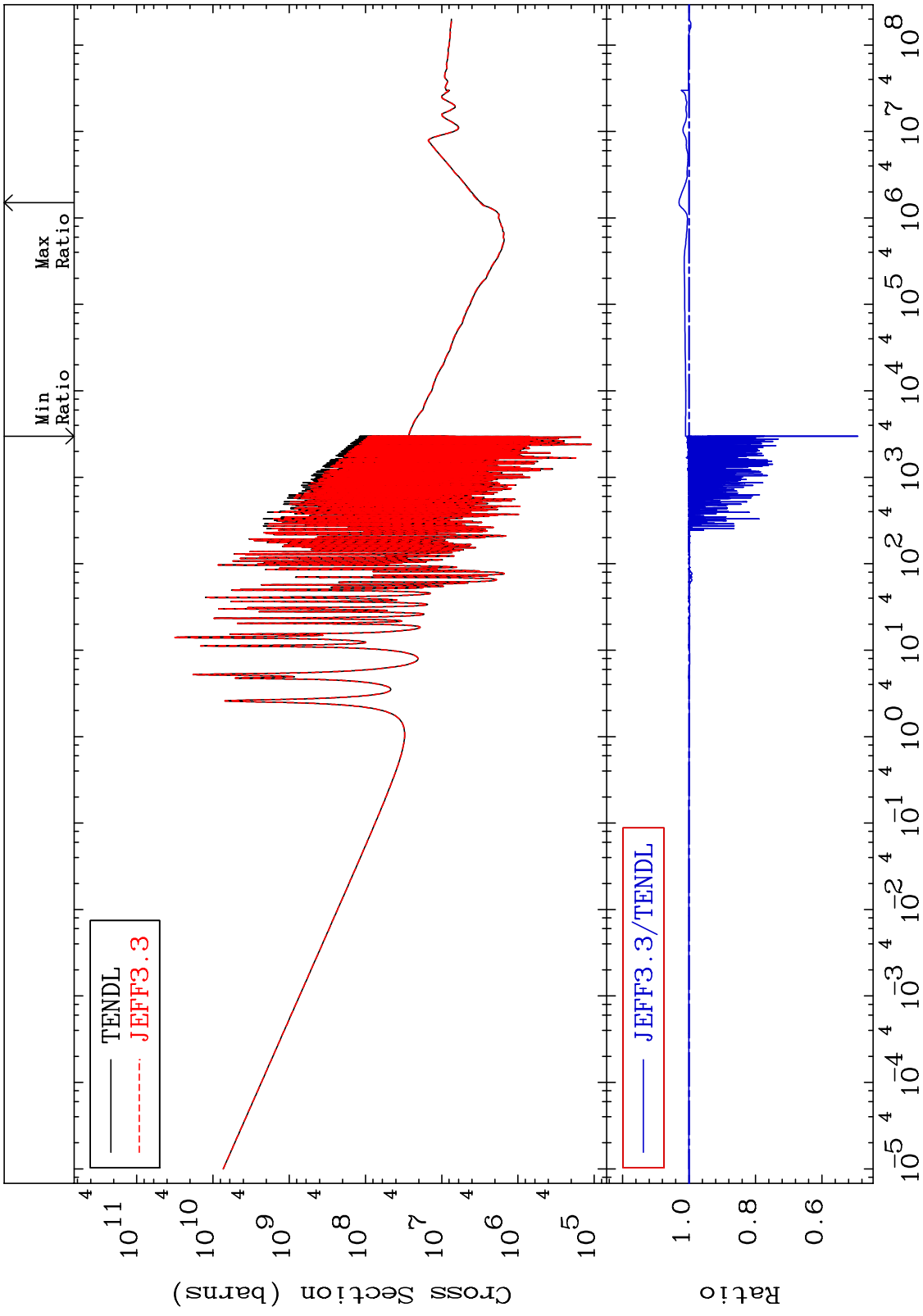


73

Incident Energy (eV)

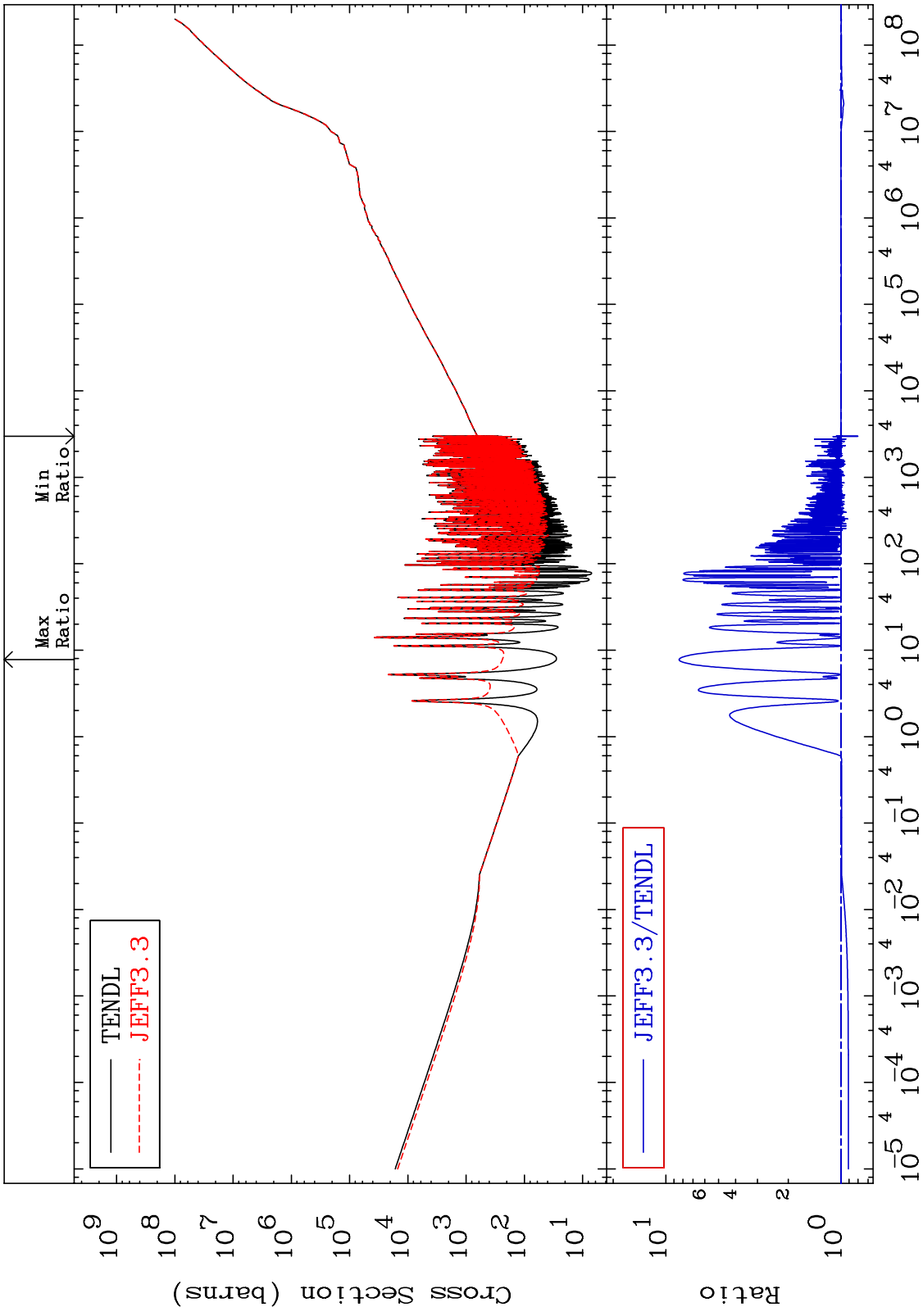
71-Lu-175

MAT 7125 71-Lu-175  
 Total photon (eV-barns) -50.78 To 3.006 %  
 Cross Section



74 71-Lu-175

MAT 7125 Total kinematic kerma (high limit) 71-Lu-175  
Cross Section -19.83 To 741.7 %

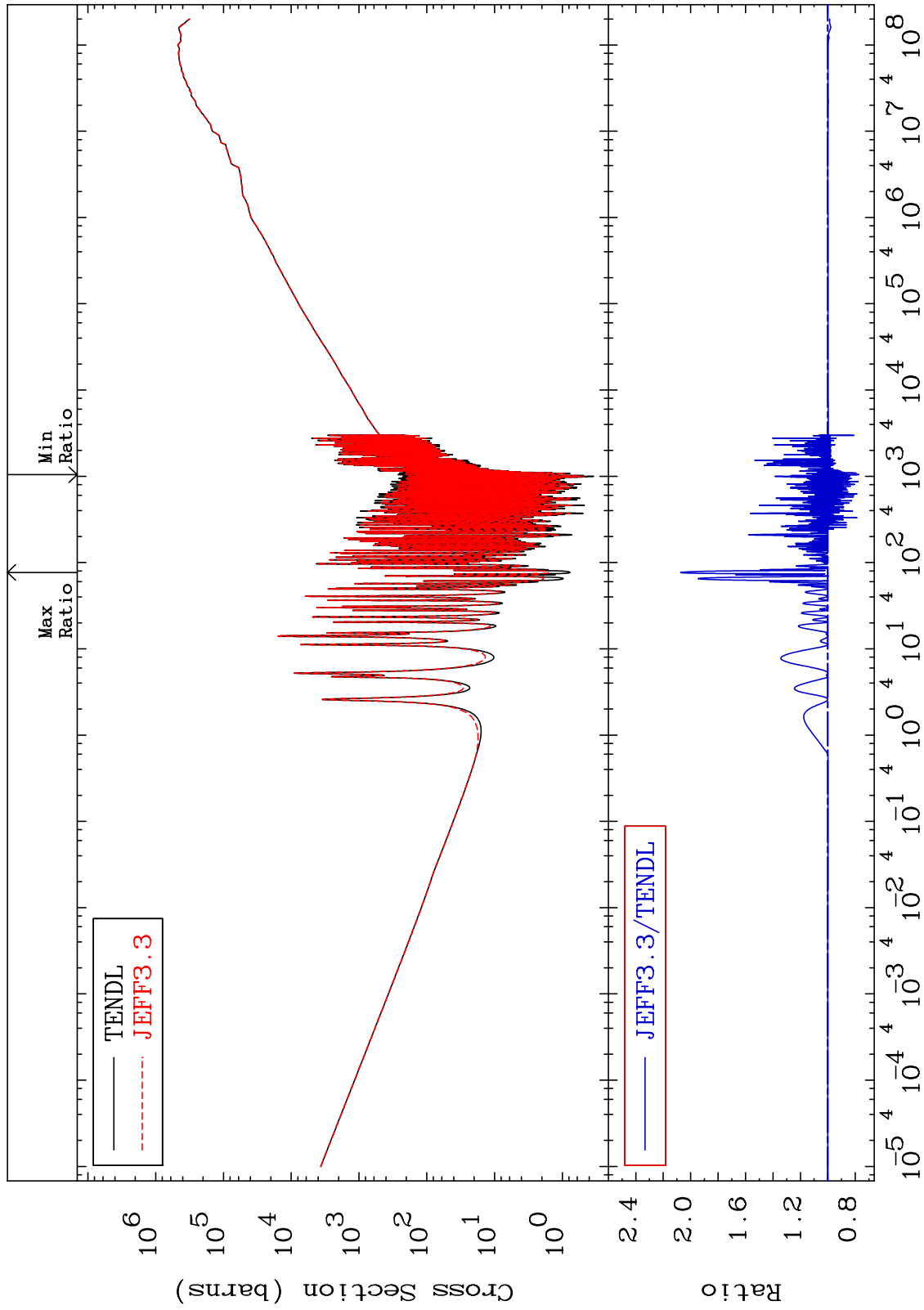


75 71-Lu-175

MAT 7125

Dpa total (eV-barns)  
Cross Section

71-Lu-175  
-22.70 To 107.3 %



76

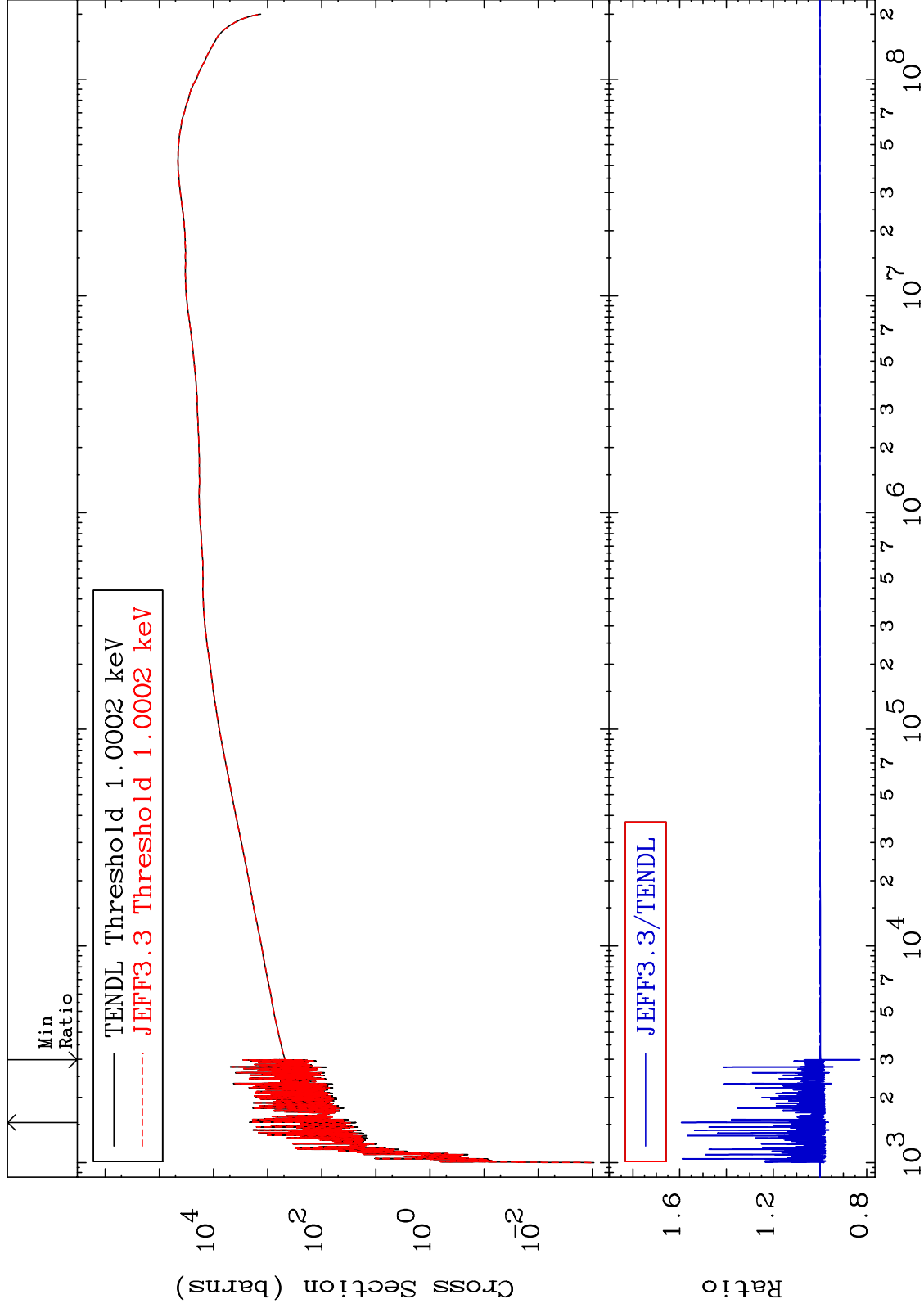
Incident Energy (eV)

71-Lu-175

MAT 7125

Dpa elastic (mt2)  
Cross Section

71-Lu-175  
-17.02 To 59.30 %

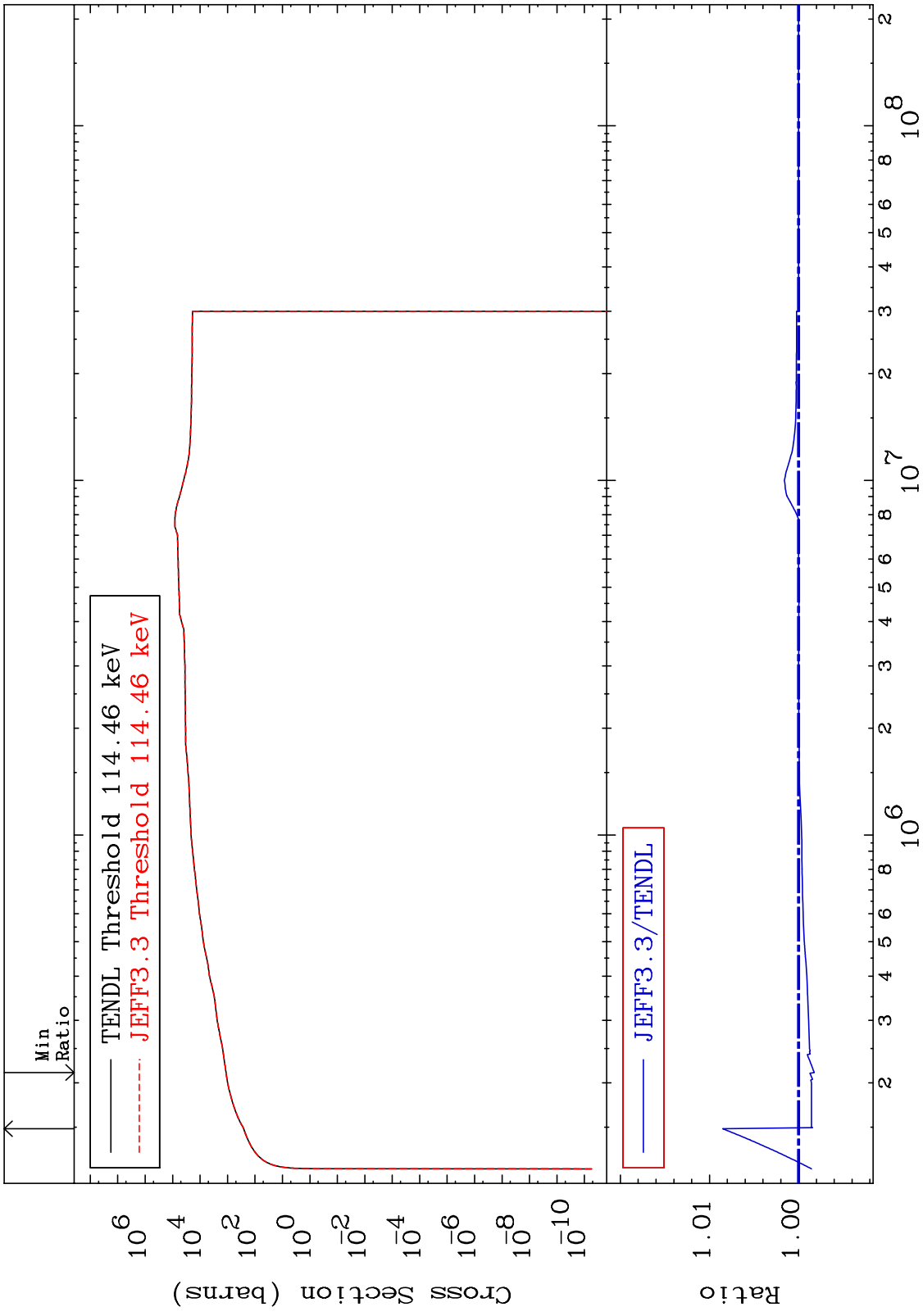


77

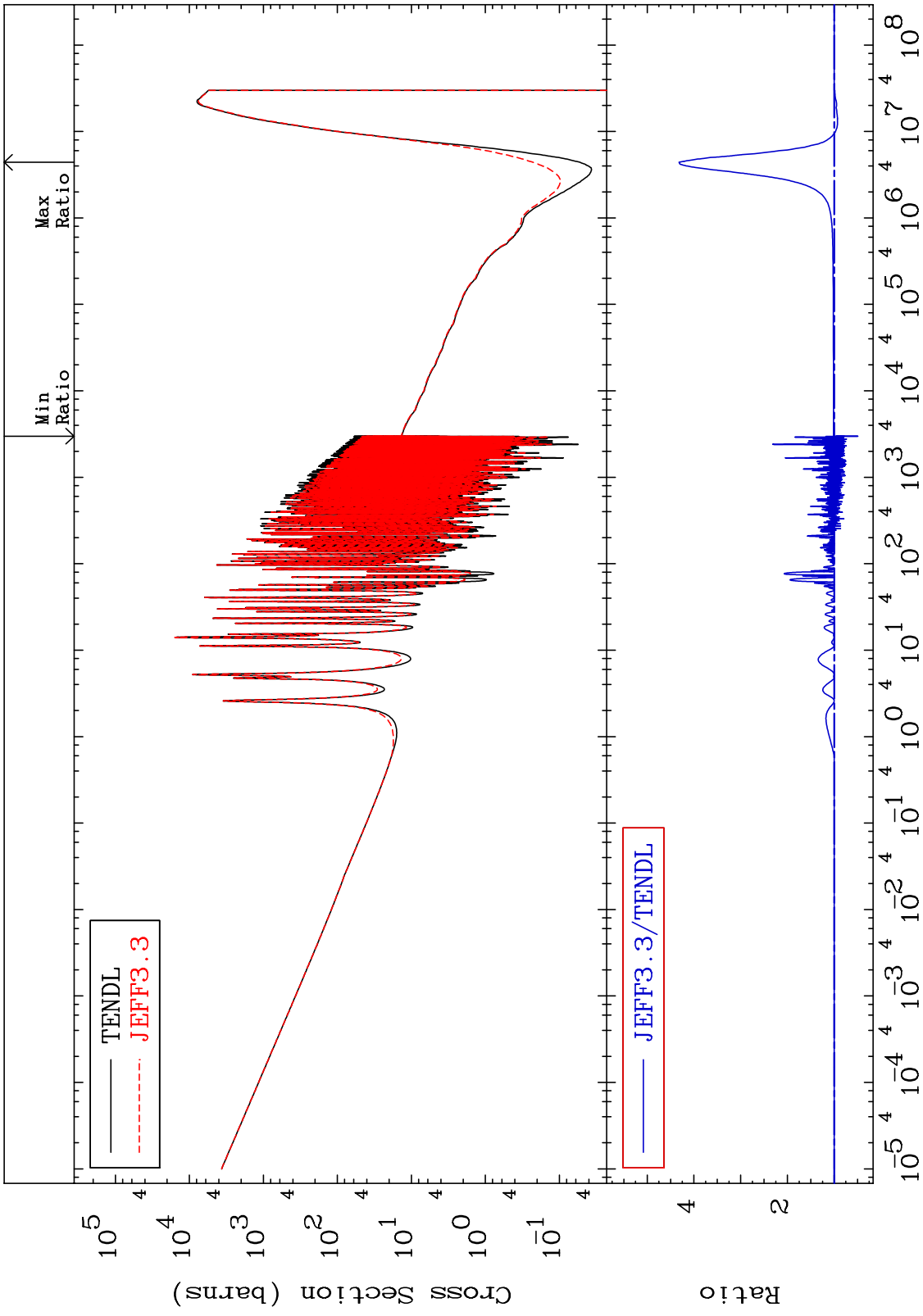
Incident Energy (eV)

71-Lu-175

MAT 7125      Dpa inelastic (mt51-91)      71-Lu-175  
 Cross Section      -0.175 To 0.852 %



MAT 7125      Dpa disappearance (mt102 -120)      71-Lu-175  
 Cross Section      -50.61 To 331.9 %

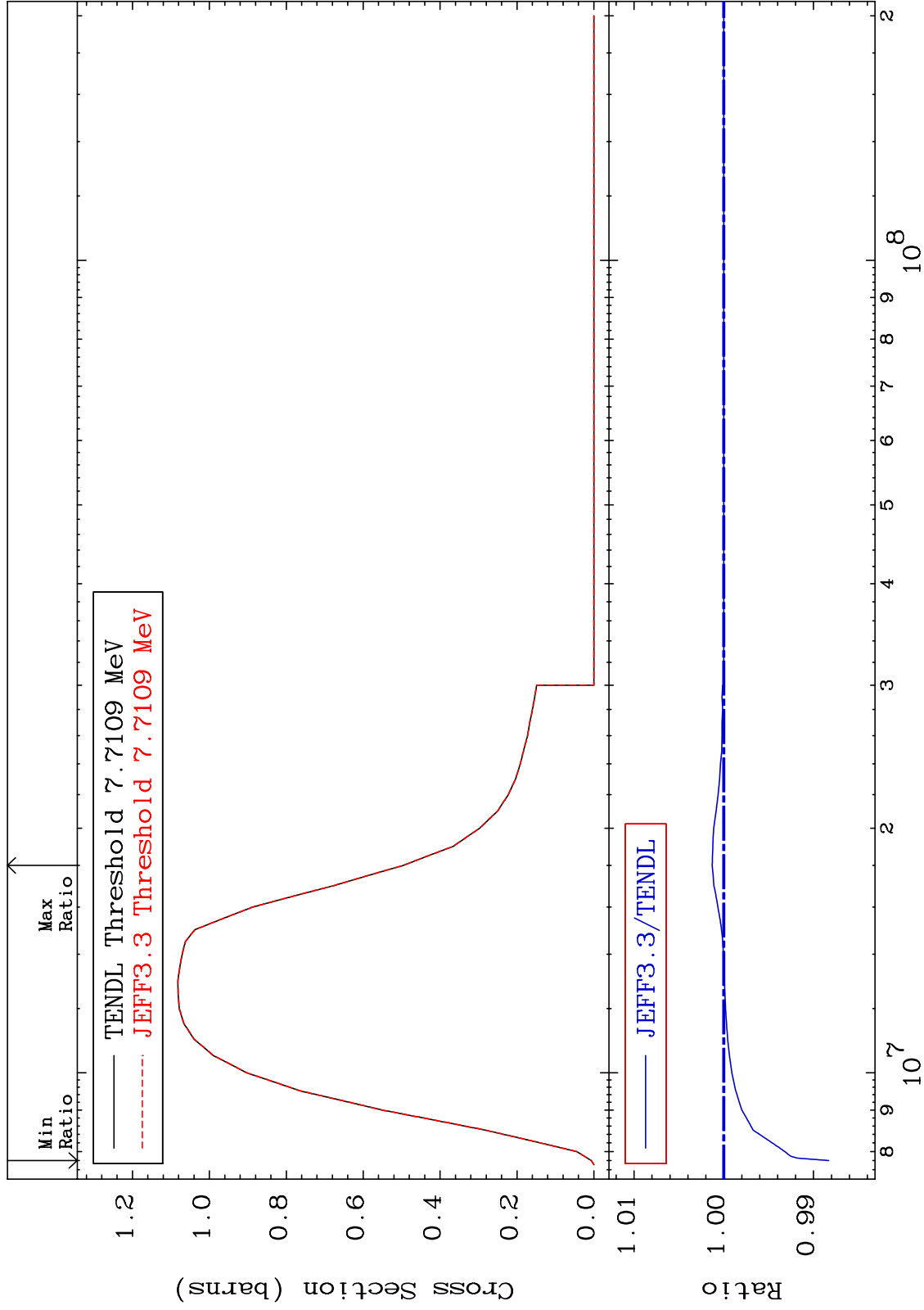


MAT 7125

(n,2n):71-Lu-174g

71-Lu-175

Radionuclide Production Cross Section -1.170 To 0.129 %



80

Incident Energy (eV)

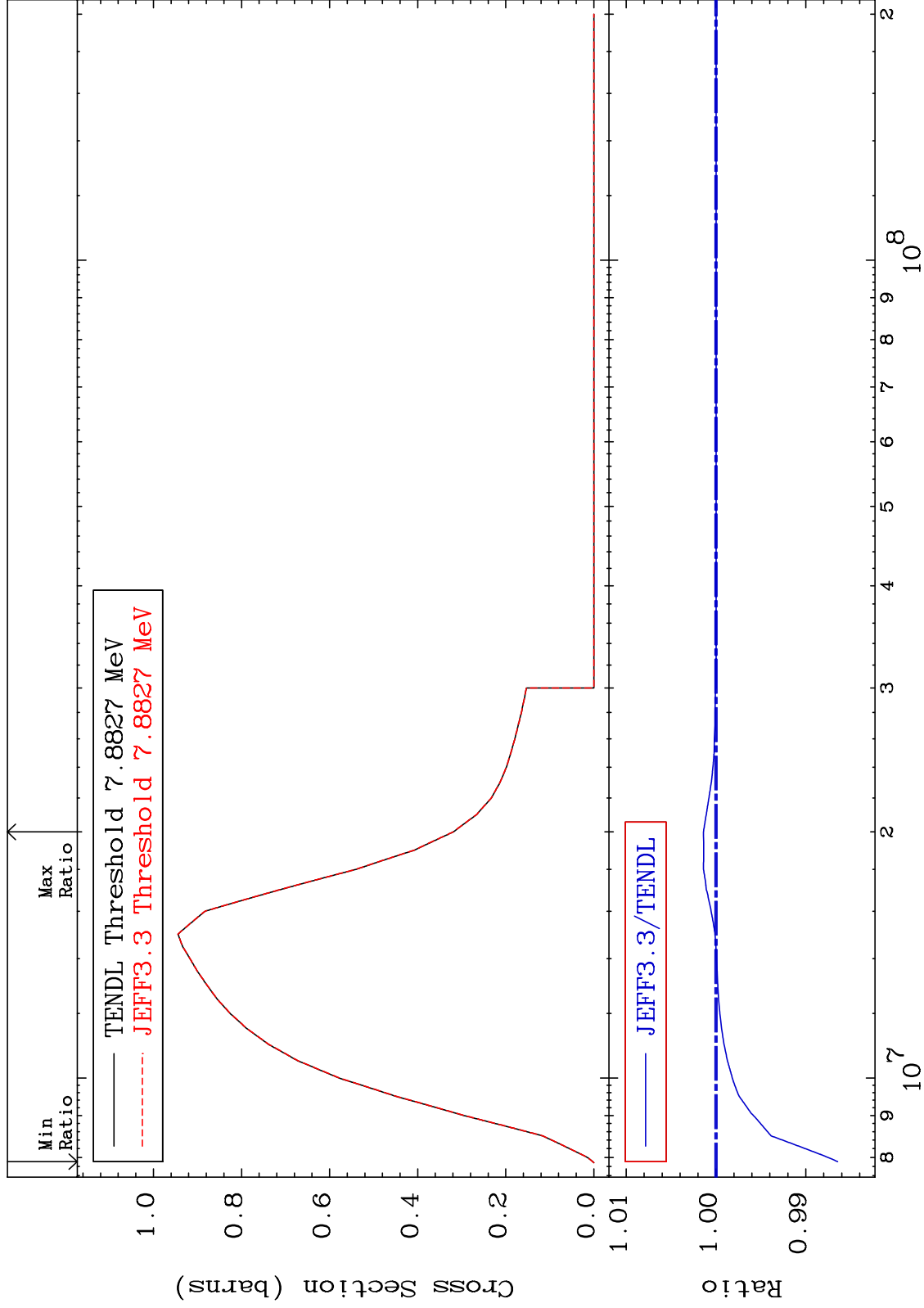
71-Lu-175

MAT 7125

(n,2n):71-Lu-174m3

71-Lu-175

Radionuclide Production Cross Section -1.354 To 0.140 %

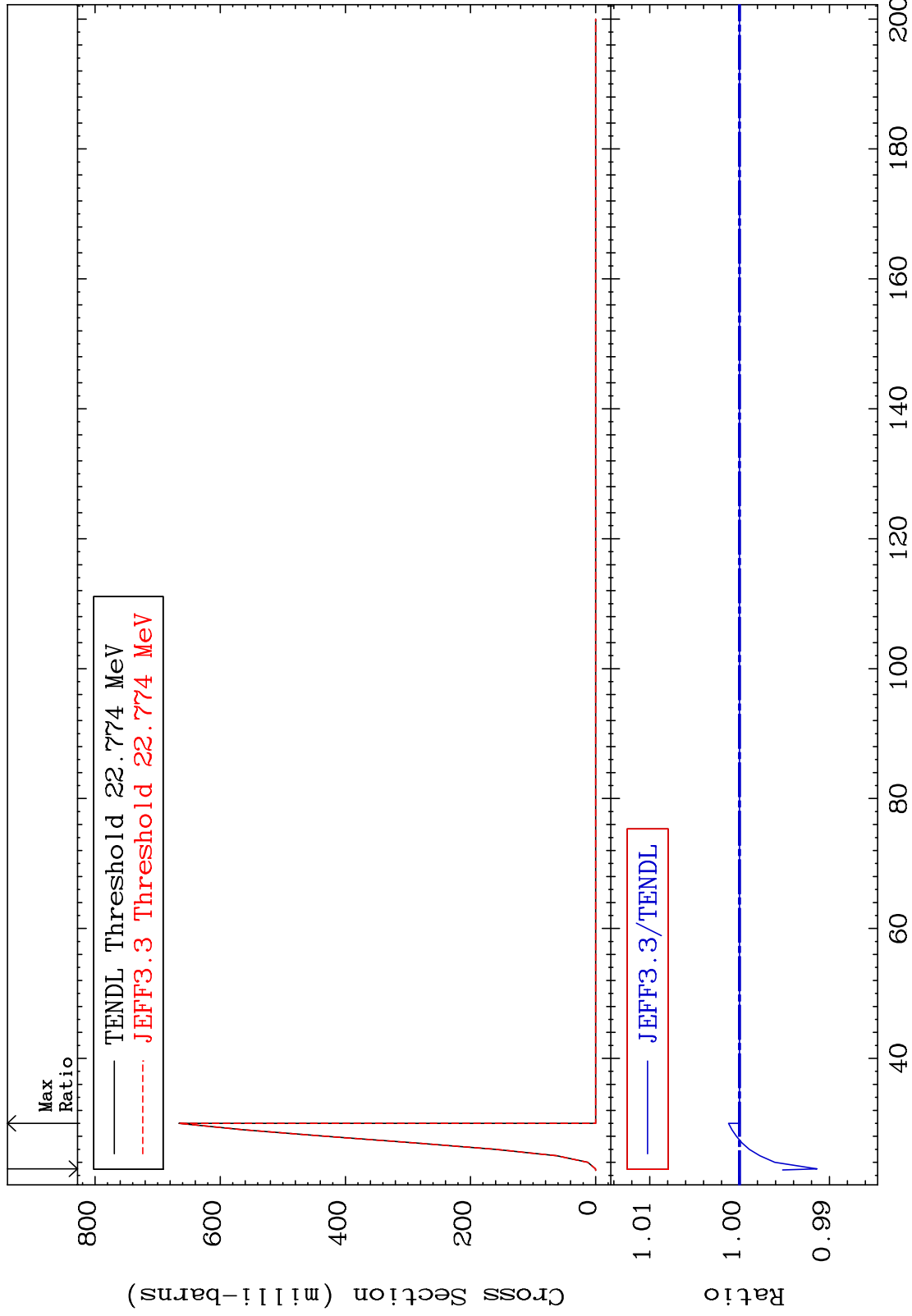


MAT 7125

(n, 4n) : 71-Lu-172g

71-Lu-175

Radionuclide Production Cross Section -0.862 To 0.122 %



82

Incident Energy (MeV)

71-Lu-175

MAT 7125

(n, 4n) : 71-Lu-172m1

71-Lu-175

Radionuclide Production Cross Section -0.622 To 0.155 %

