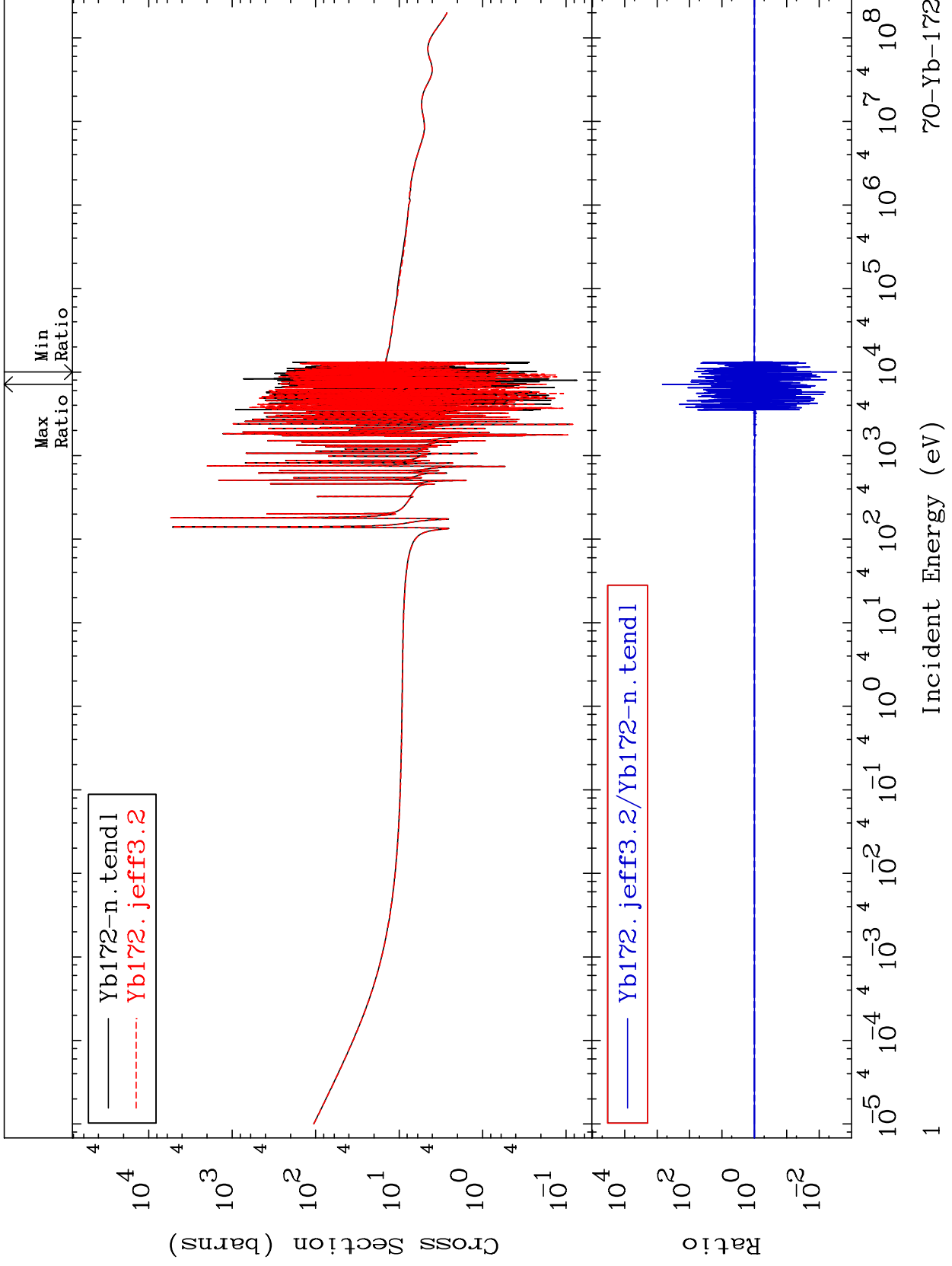


MAT 7037

Total  
Cross Section

70-Yb-172  
-99.71 To 9999. %



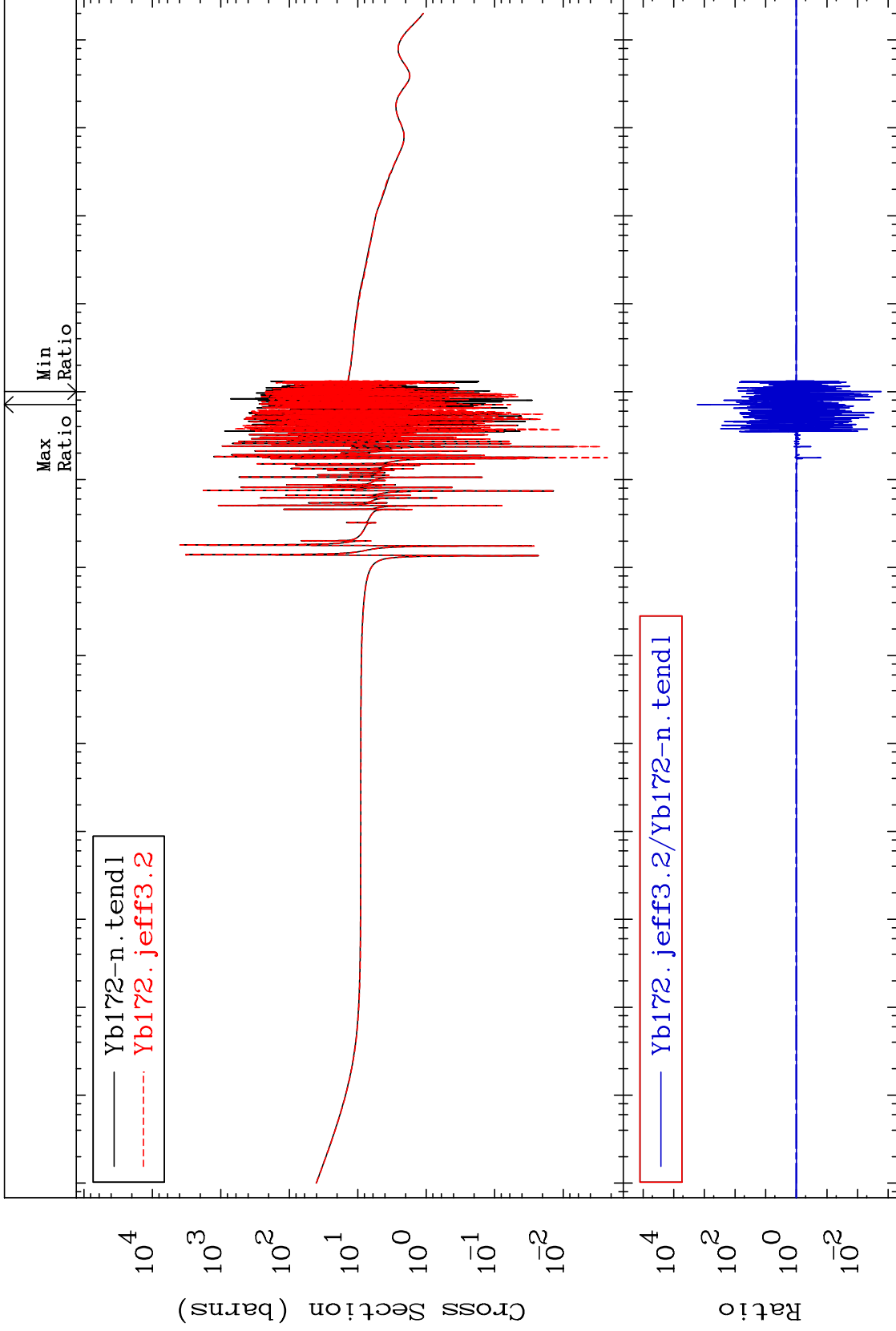
Incident Energy (eV)

70-Yb-172

MAT 7037

Elastic  
Cross Section

70-Yb-172  
-99.83 To 9999. %



Incident Energy (eV)

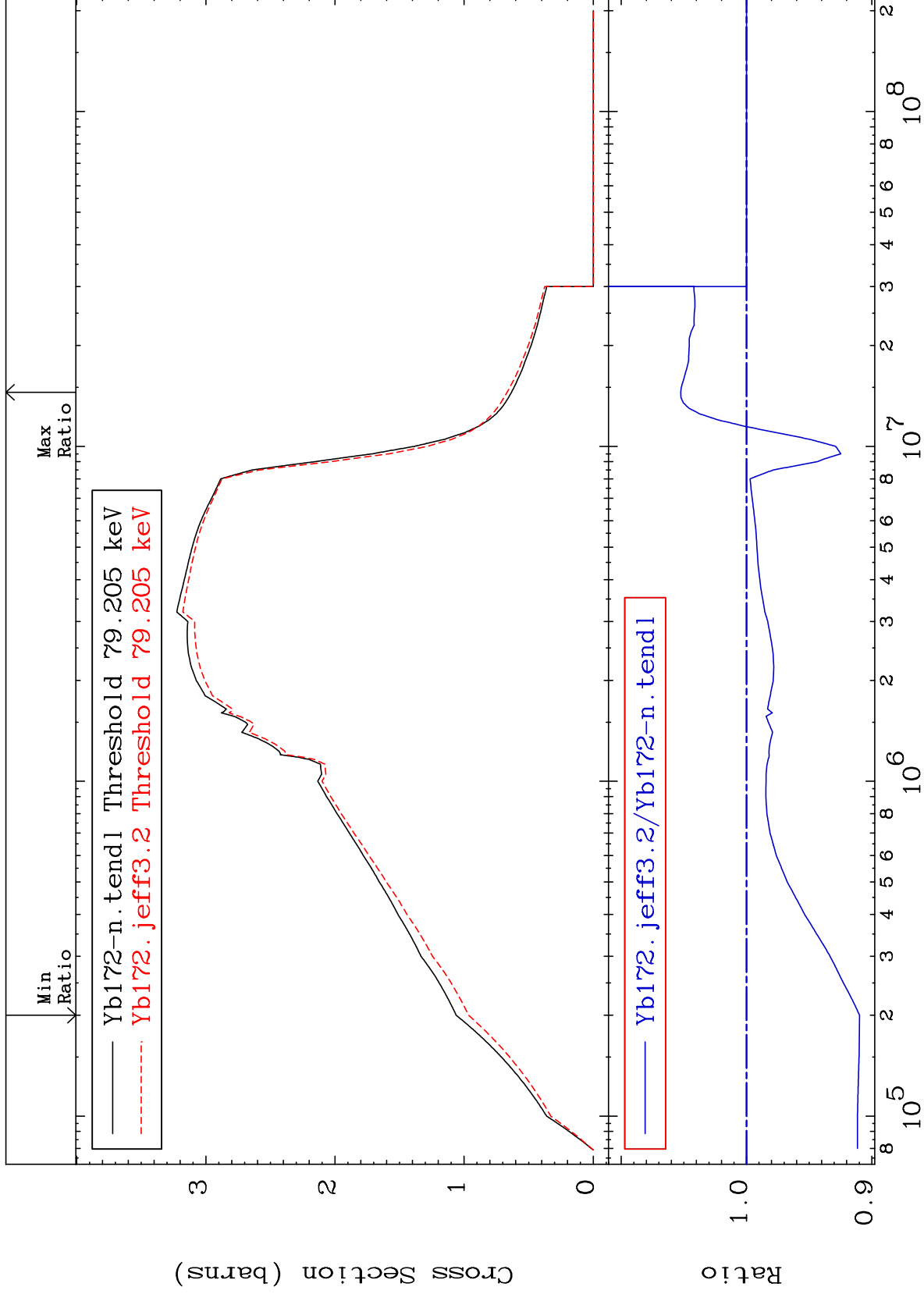
70-Yb-172

2

MAT 7037

Inelastic  
Cross Section

70-Yb-172  
-9.023 To 5.250 %



3

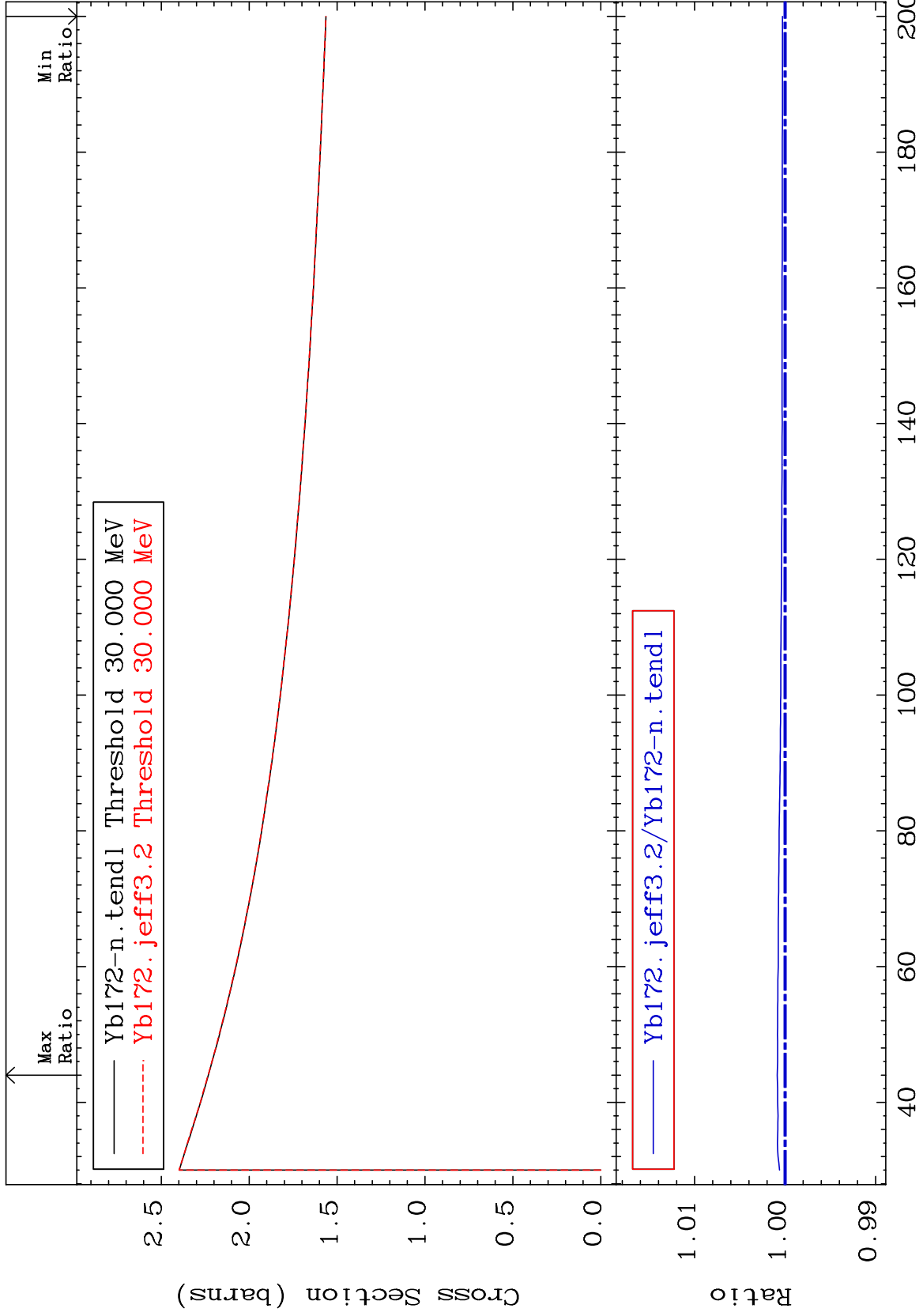
Incident Energy (eV)

70-Yb-172

MAT 7037

(n, remainder)  
Cross Section

70-Yb-172  
0.029 To 0.087 %



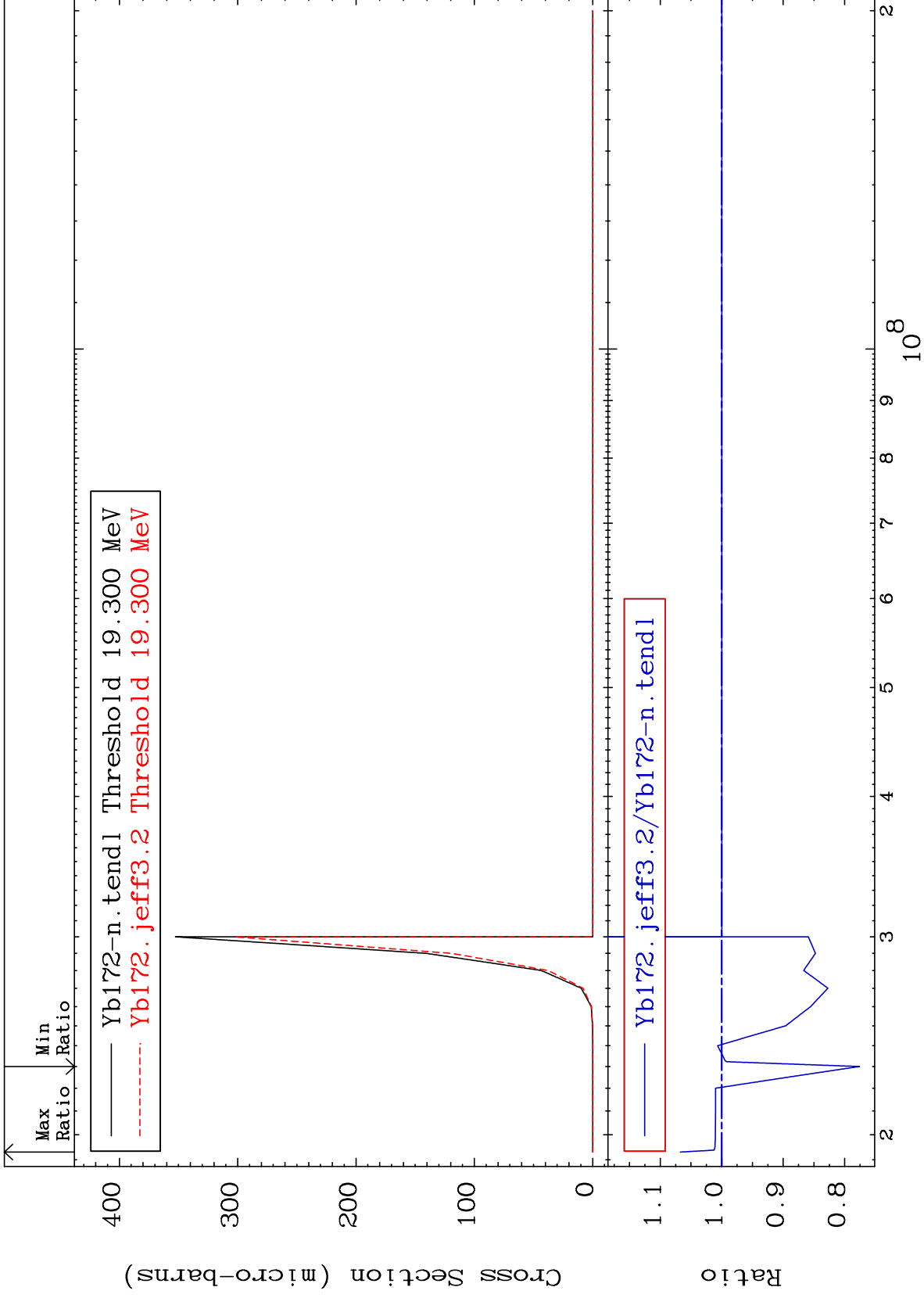
Incident Energy (MeV)

70-Yb-172

MAT 7037

(n,2n) d  
Cross Section

70-Yb-172  
-22.40 To 6.732 %



5

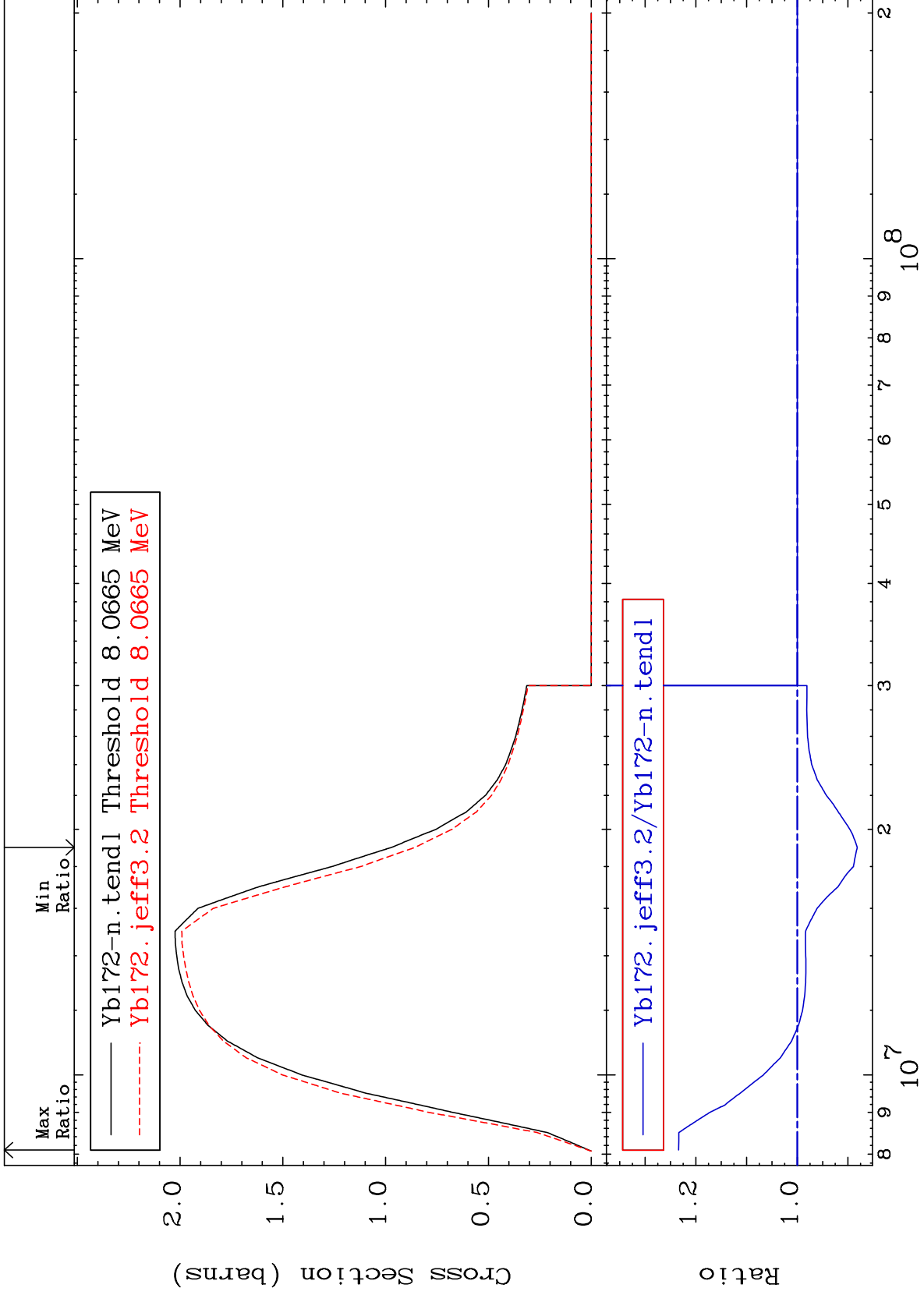
Incident Energy (eV)

70-Yb-172

MAT 7037

(n,2n)  
Cross Section

70-Yb-172  
-11.83 To 23.40 %



70-Yb-172

Incident Energy (eV)

6

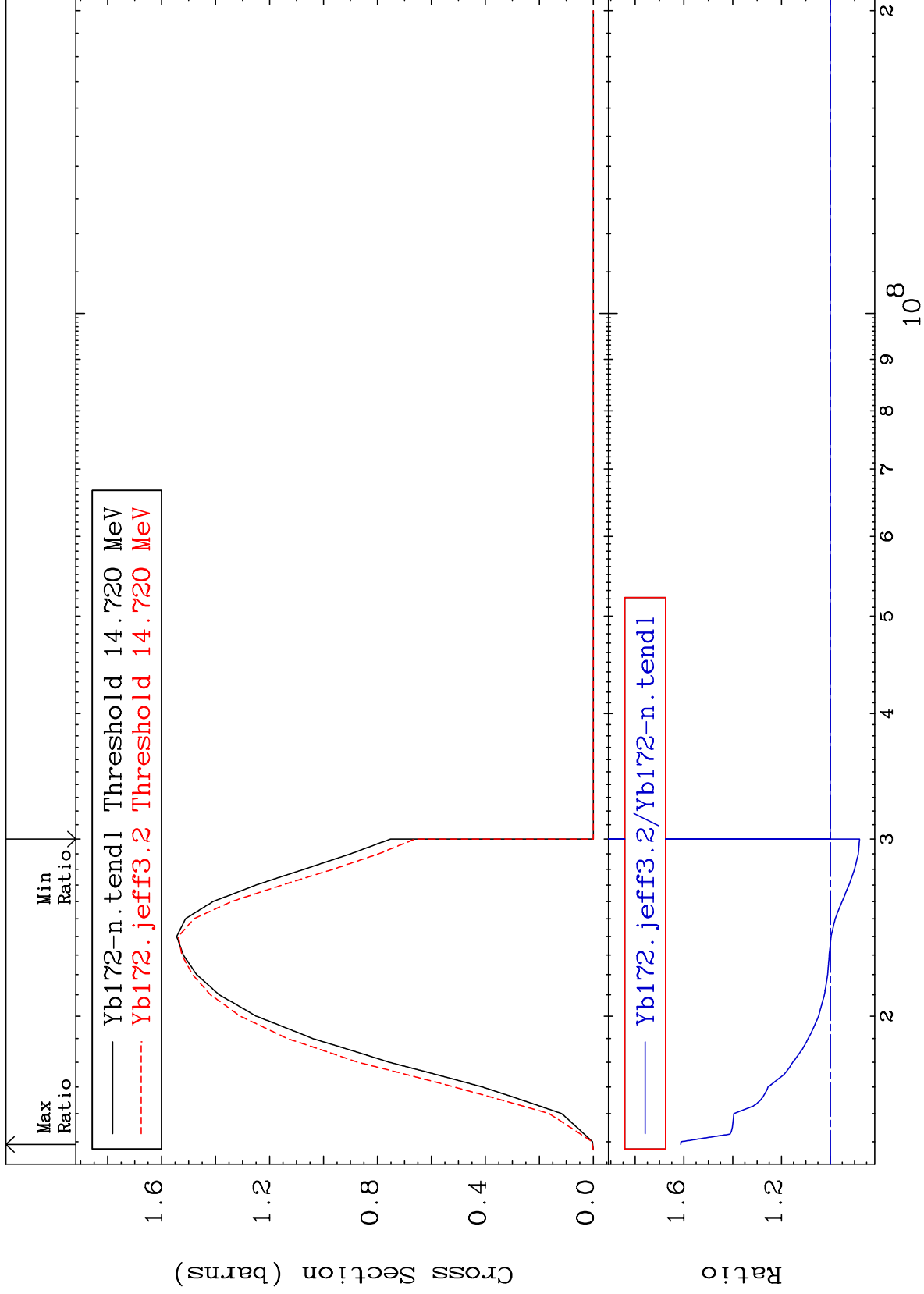
MAT 7037

(n,3n)

70-Yb-172

Cross Section

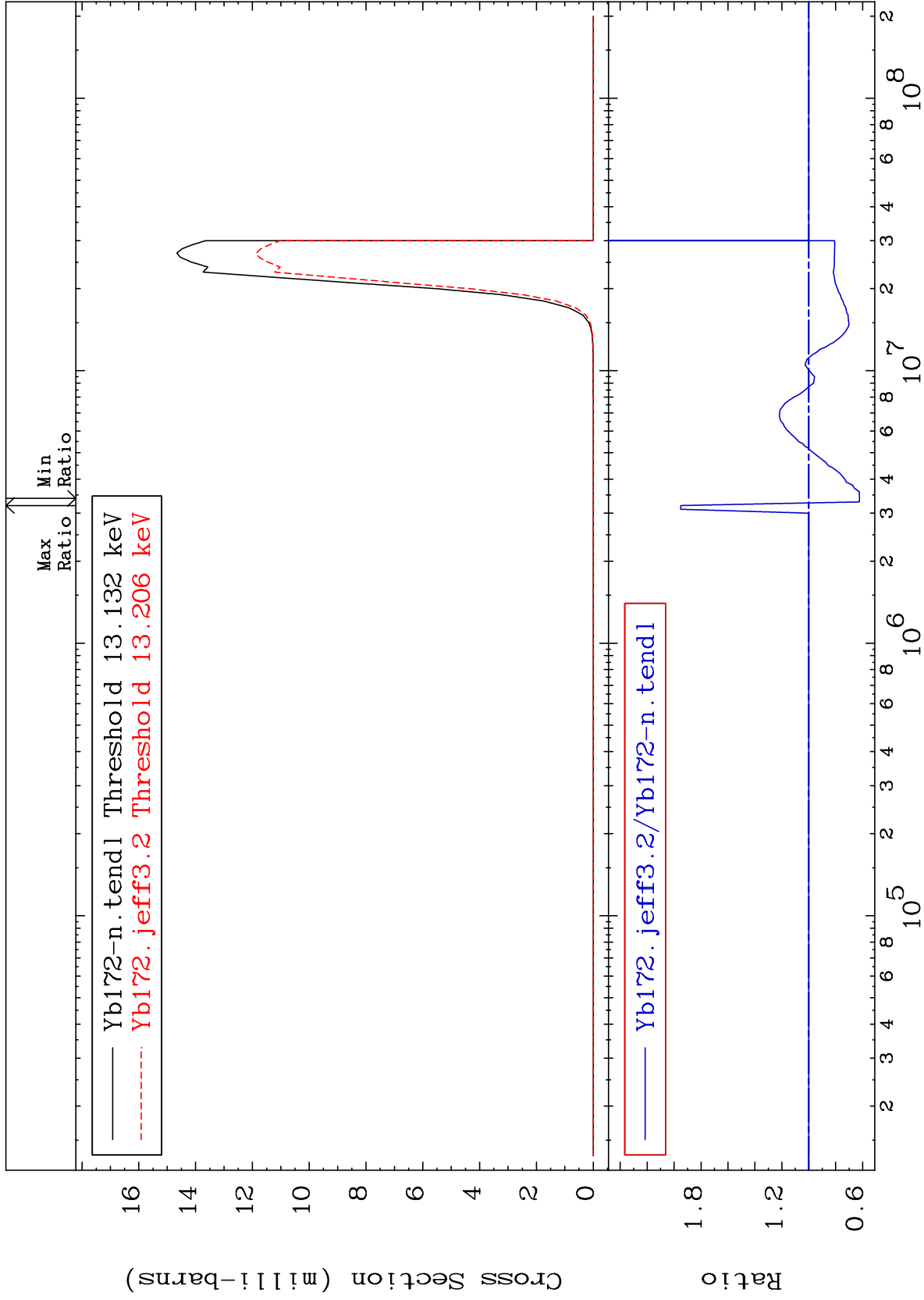
-12.08 To 61.30 %



MAT 7037

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

70-Yb-172  
-37.72 To 95.04 %

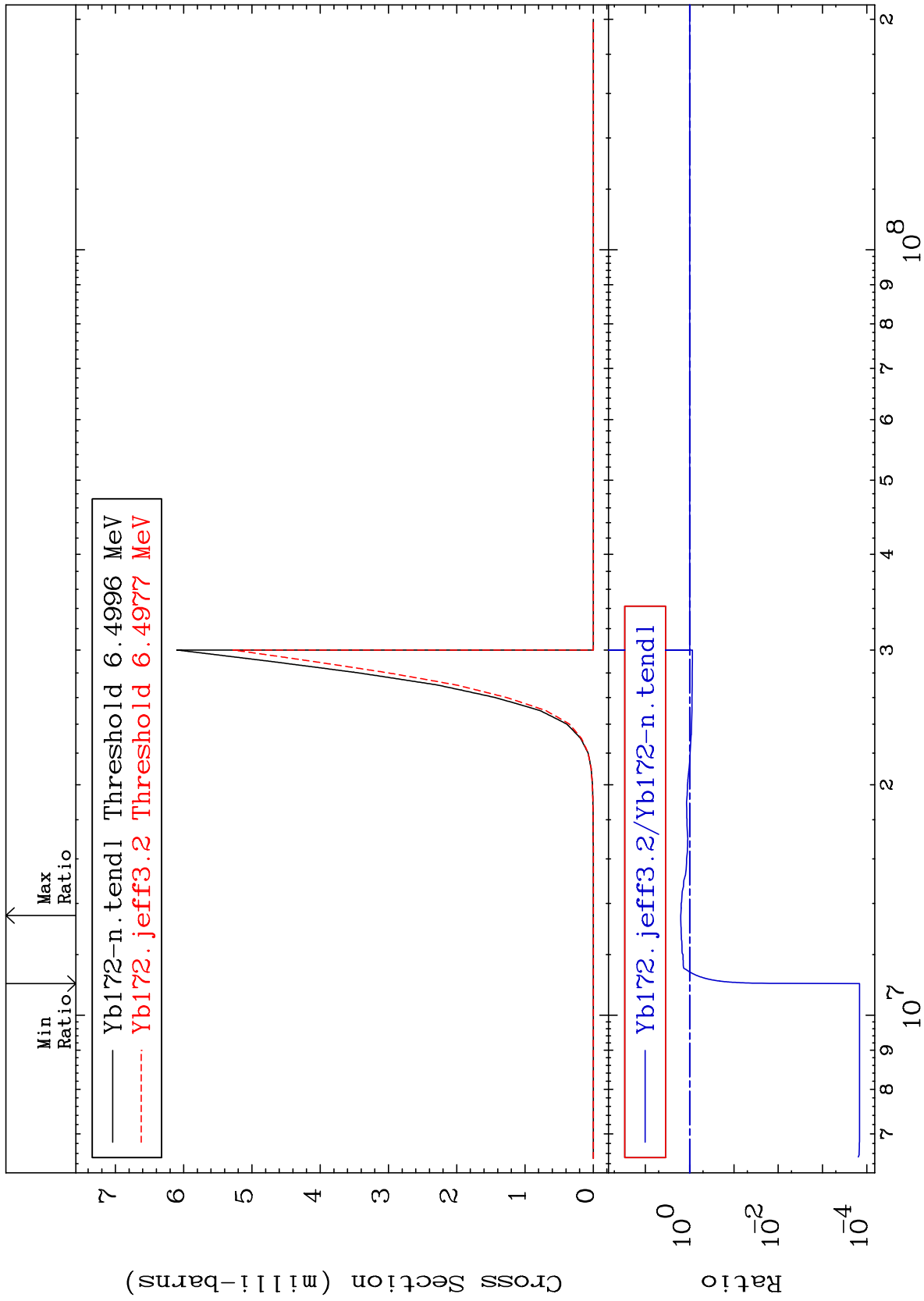




MAT 7037

(n,2n)  $\alpha$   
Cross Section

70-Yb-172  
-99.99 To 58.62 %



9

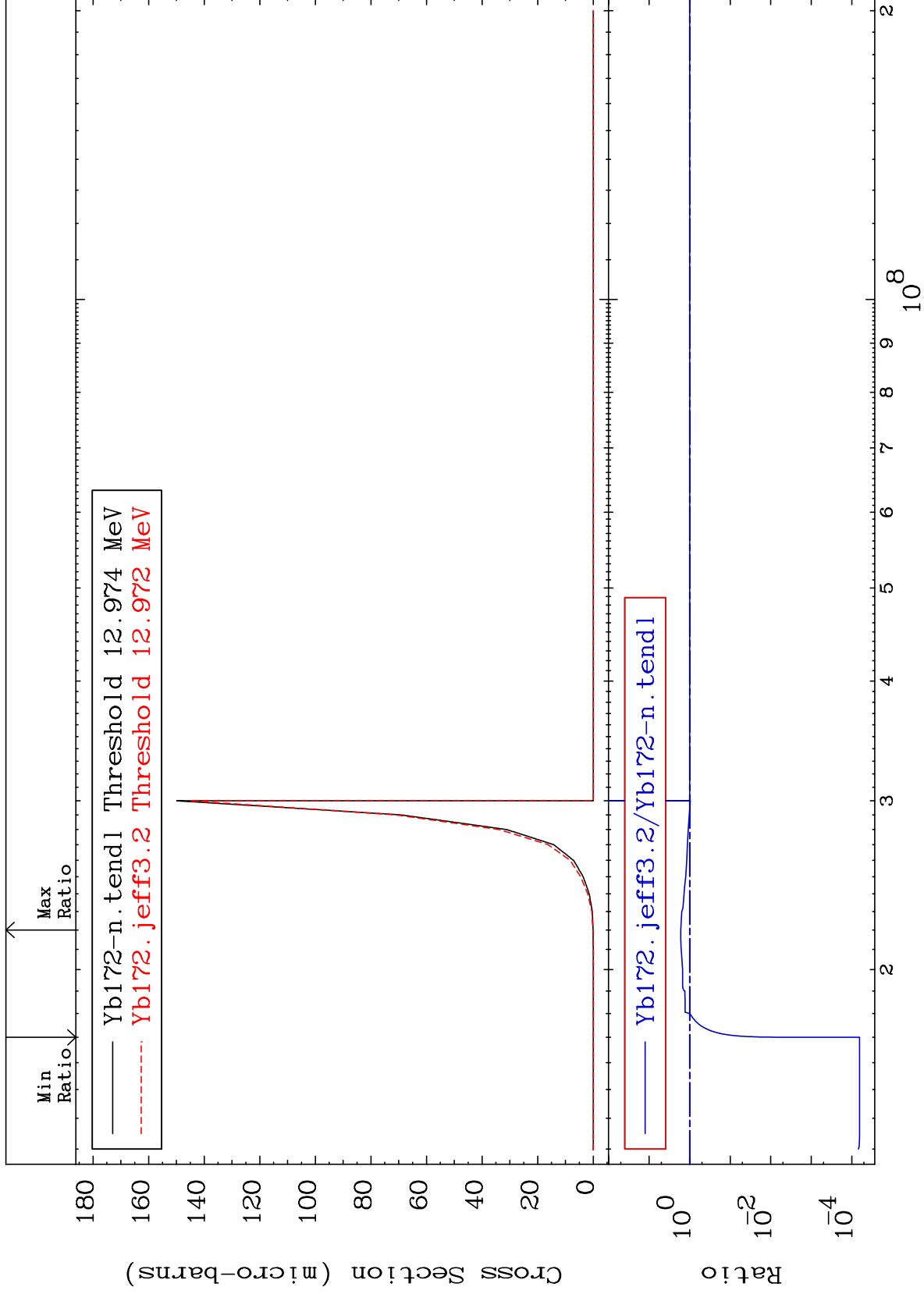
Incident Energy (eV)

70-Yb-172

MAT 7037

(n,3n)  $\alpha$   
Cross Section

70-Yb-172  
-99.99 To 65.98 %



10

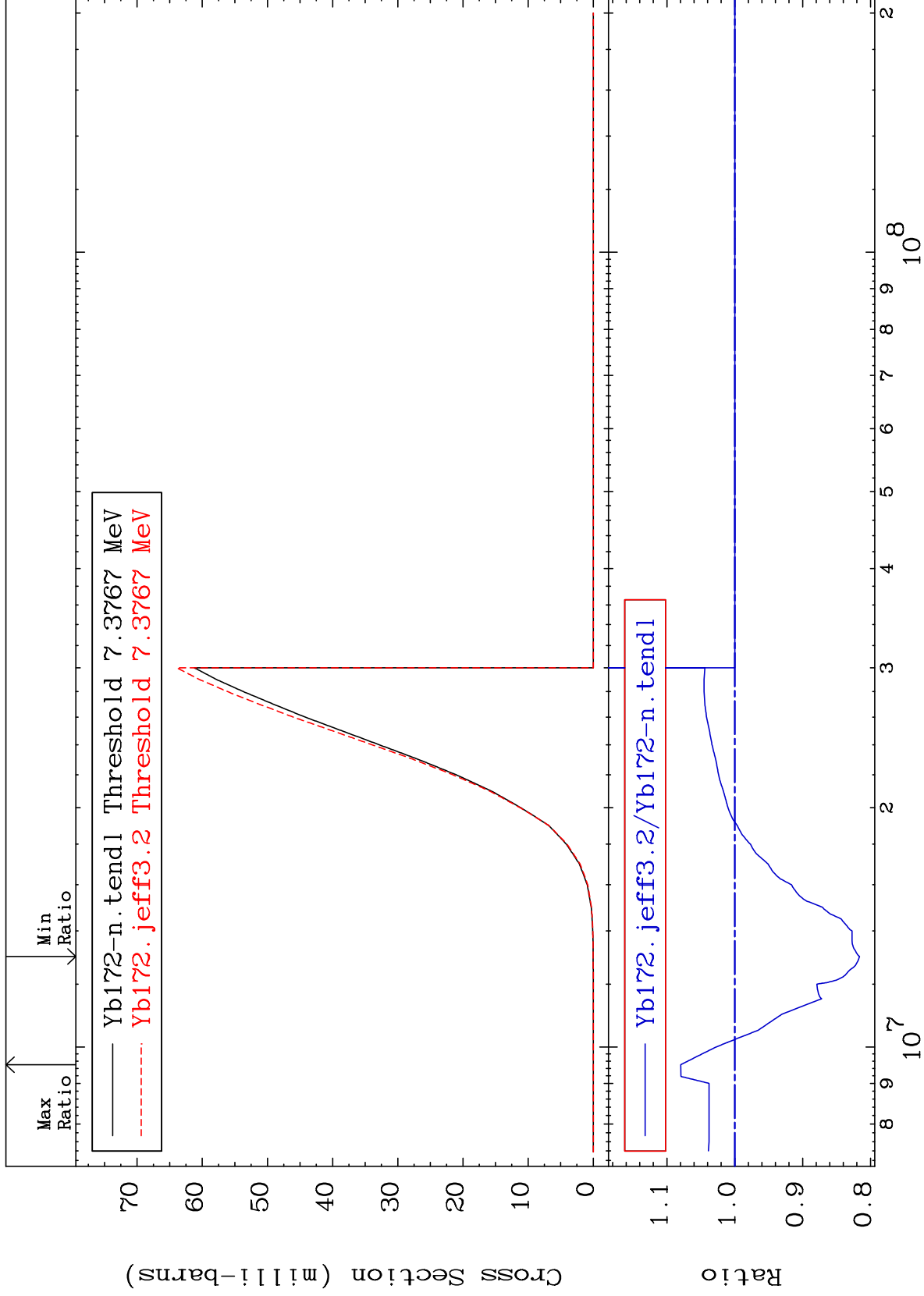
Incident Energy (eV)

70-Yb-172

MAT 7037

(n,n') p  
Cross Section

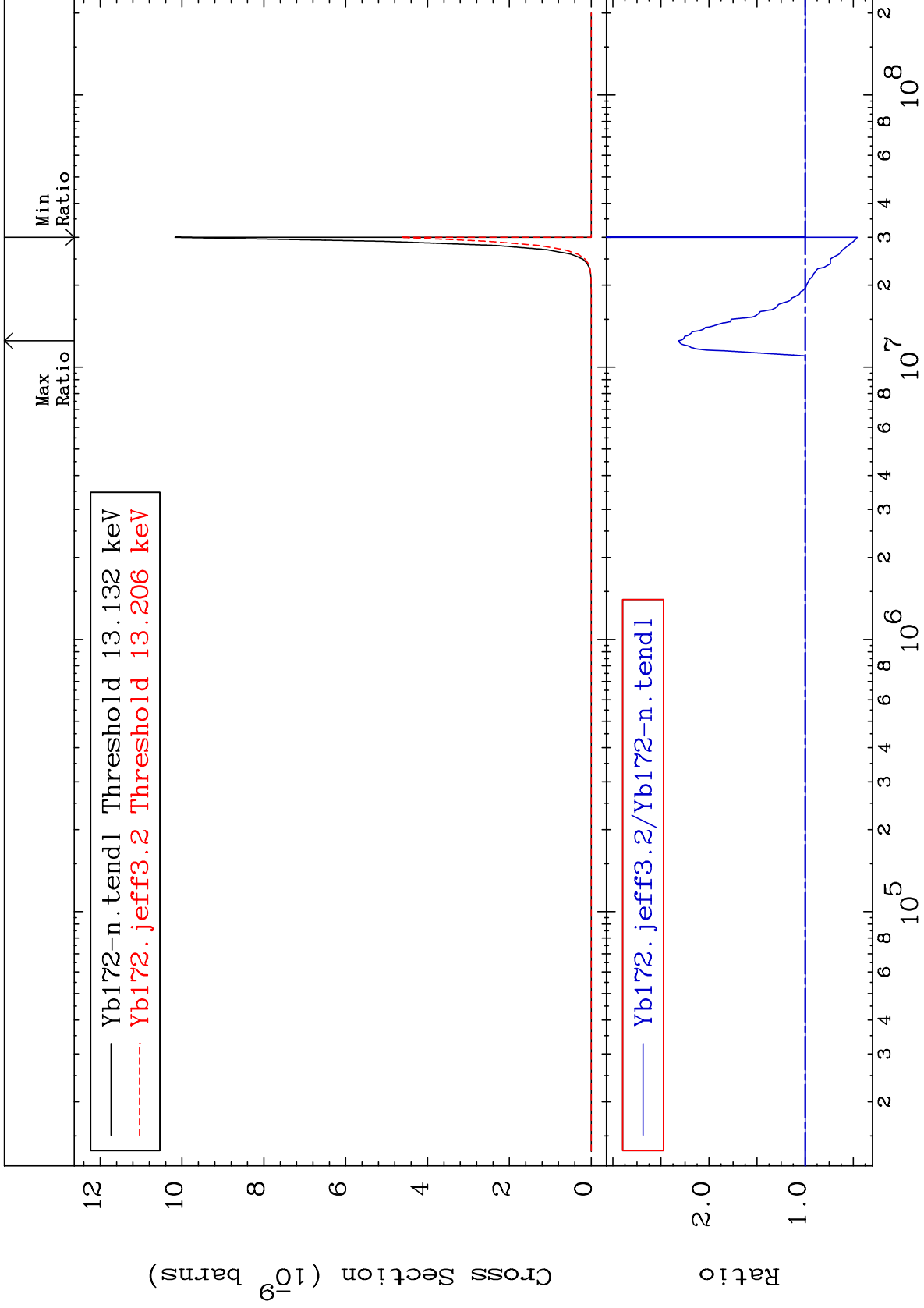
70-Yb-172  
-18.39 To 7.958 %



MAT 7037

(n, n') 2α  
Cross Section

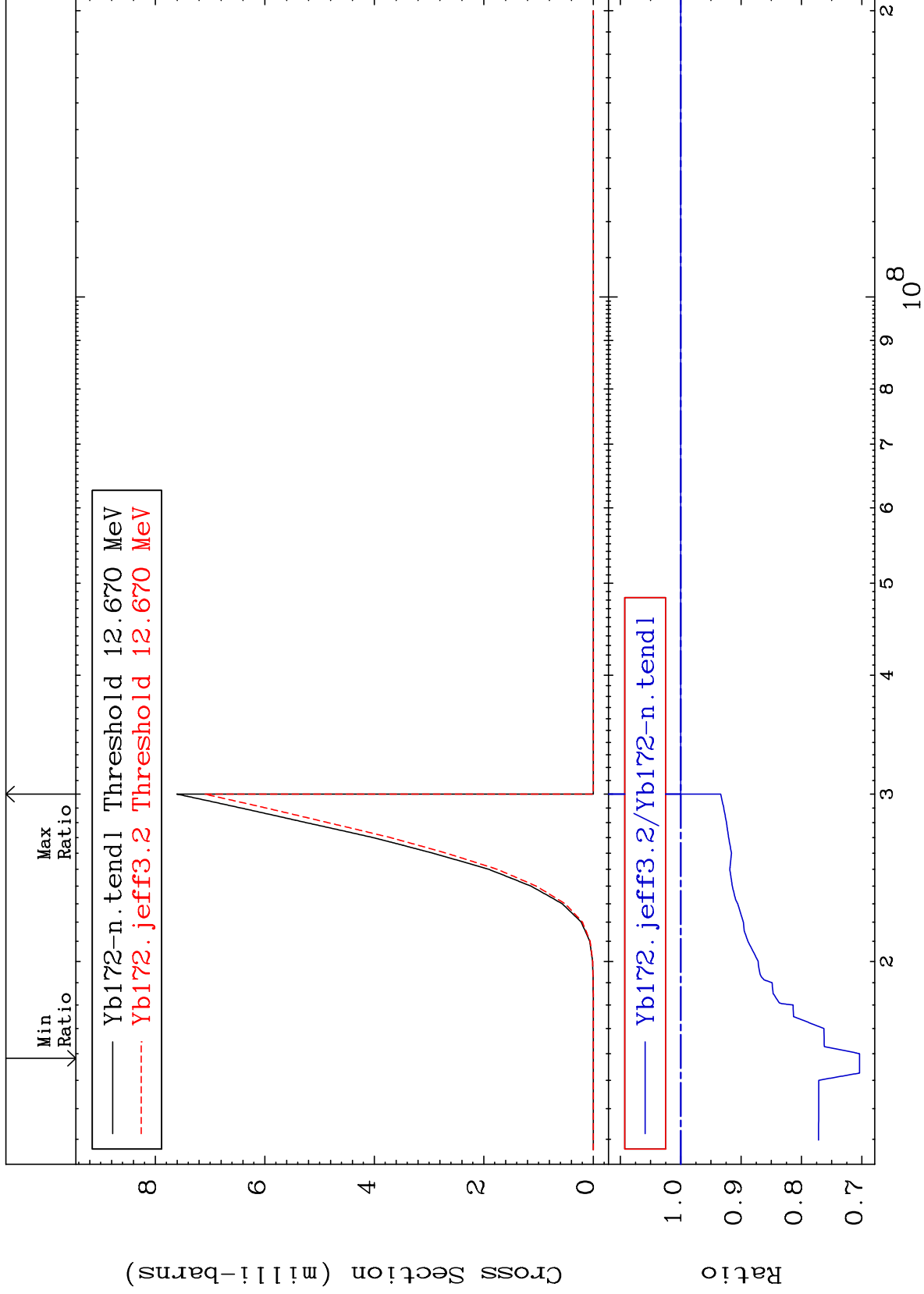
70-Yb-172  
-54.20 To 131.6 %



MAT 7037

(n, n') d  
Cross Section

<sup>70</sup>Yb-172  
-29.62 To 0.000 %



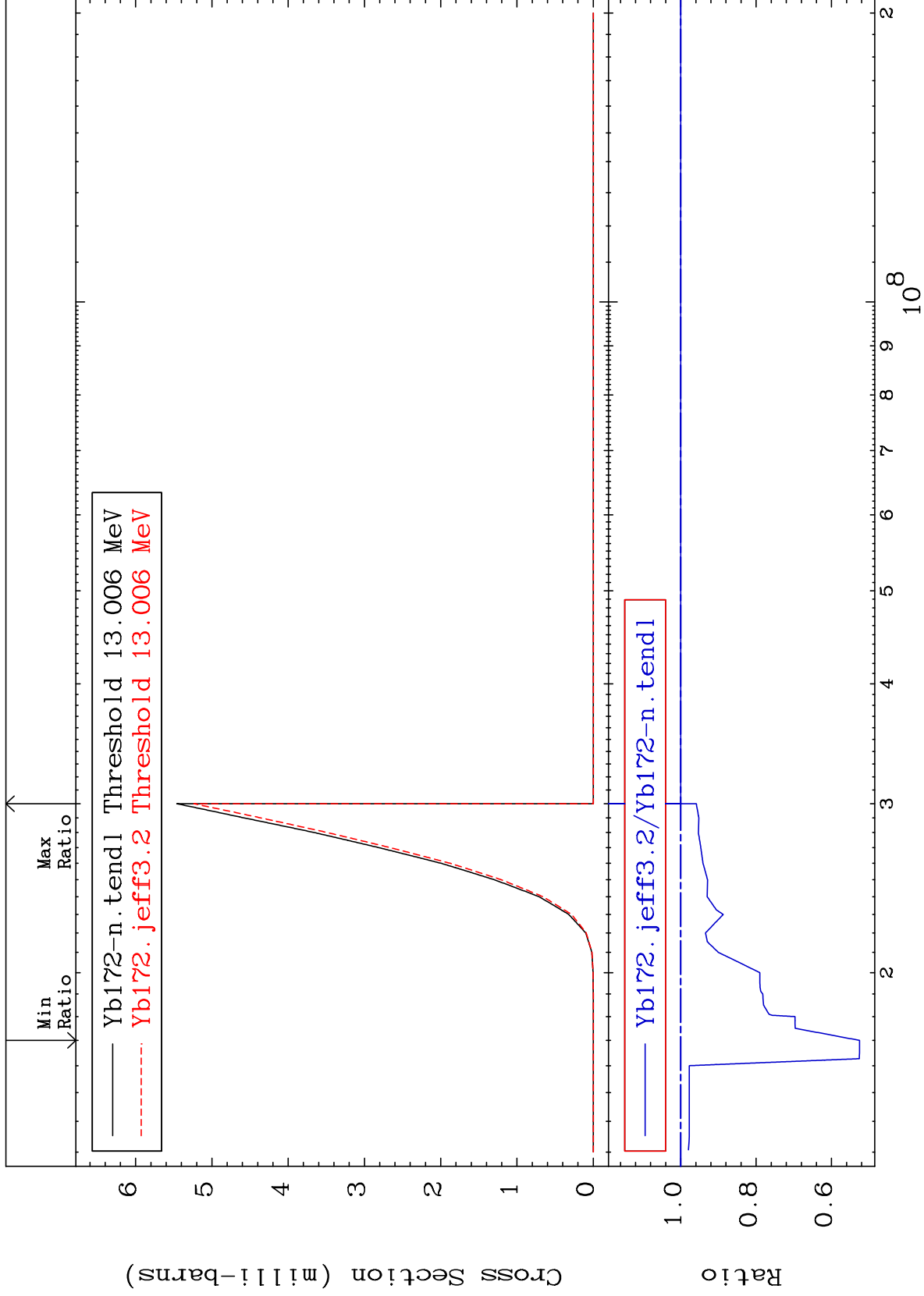
MAT 7037

(n,n') t

70-Yb-172

Cross Section

-47.43 To 0.000 %



14

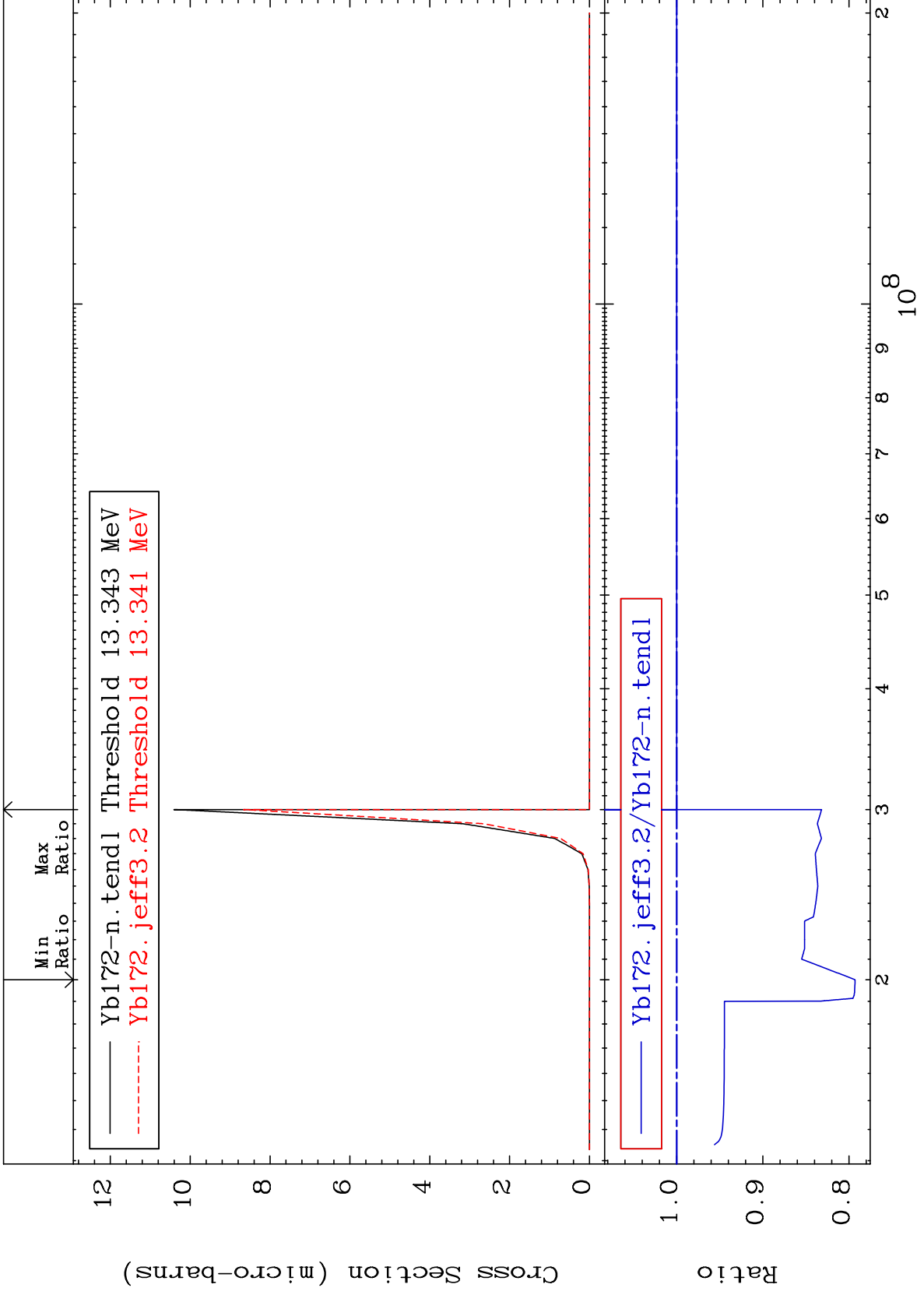
Incident Energy (eV)

70-Yb-172

MAT 7037

(n, n') He-3  
Cross Section

70-Yb-172  
-20.70 To 0.000 %



MAT 7037

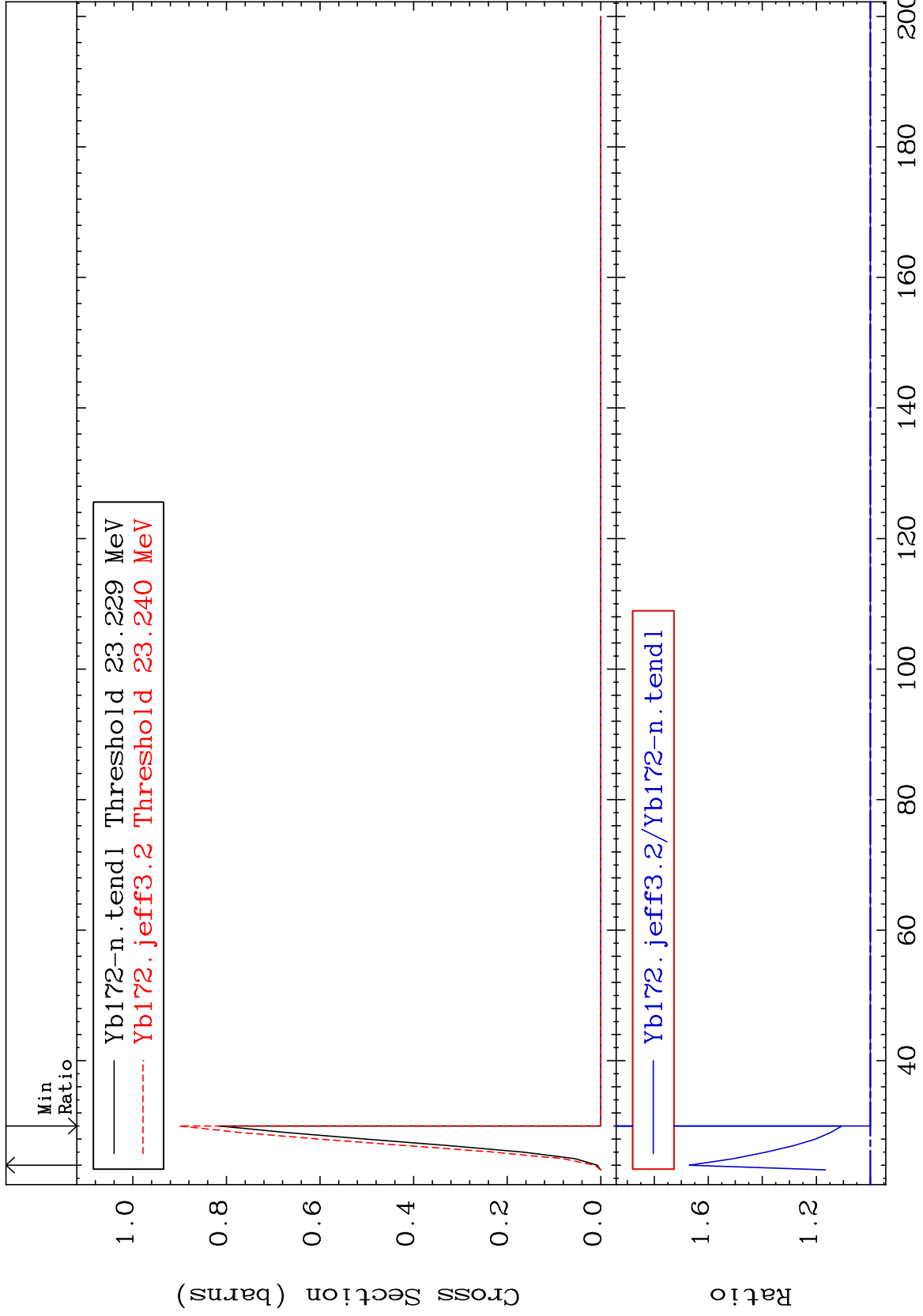
(n,4n)

70-Yb-172

Cross Section

0.000

To 67.01 %

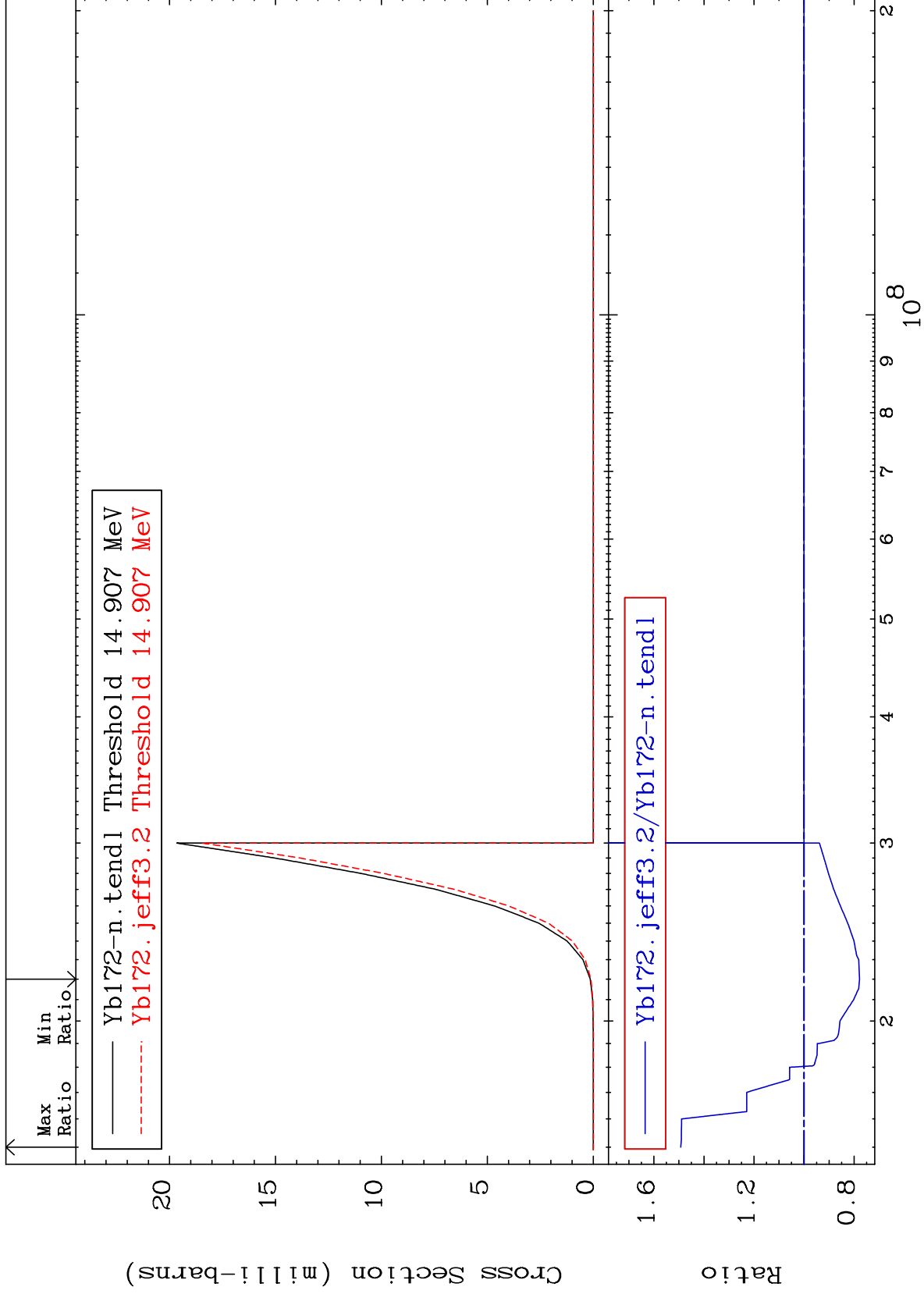




MAT 7037

(n,2n) p  
Cross Section

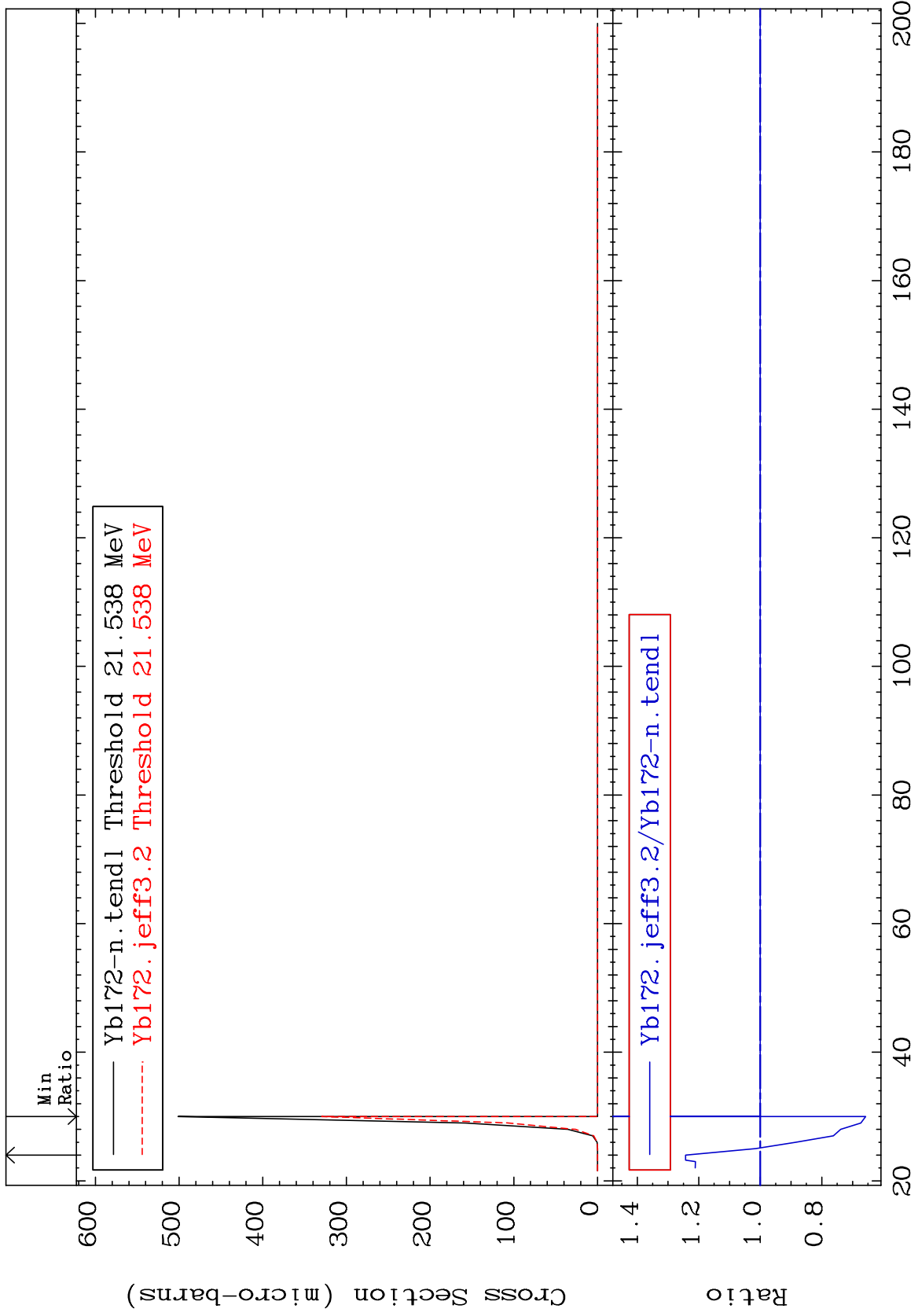
<sup>70</sup>Yb-172  
-22.17 To 49.26 %



MAT 7037

(n,3n) p  
Cross Section

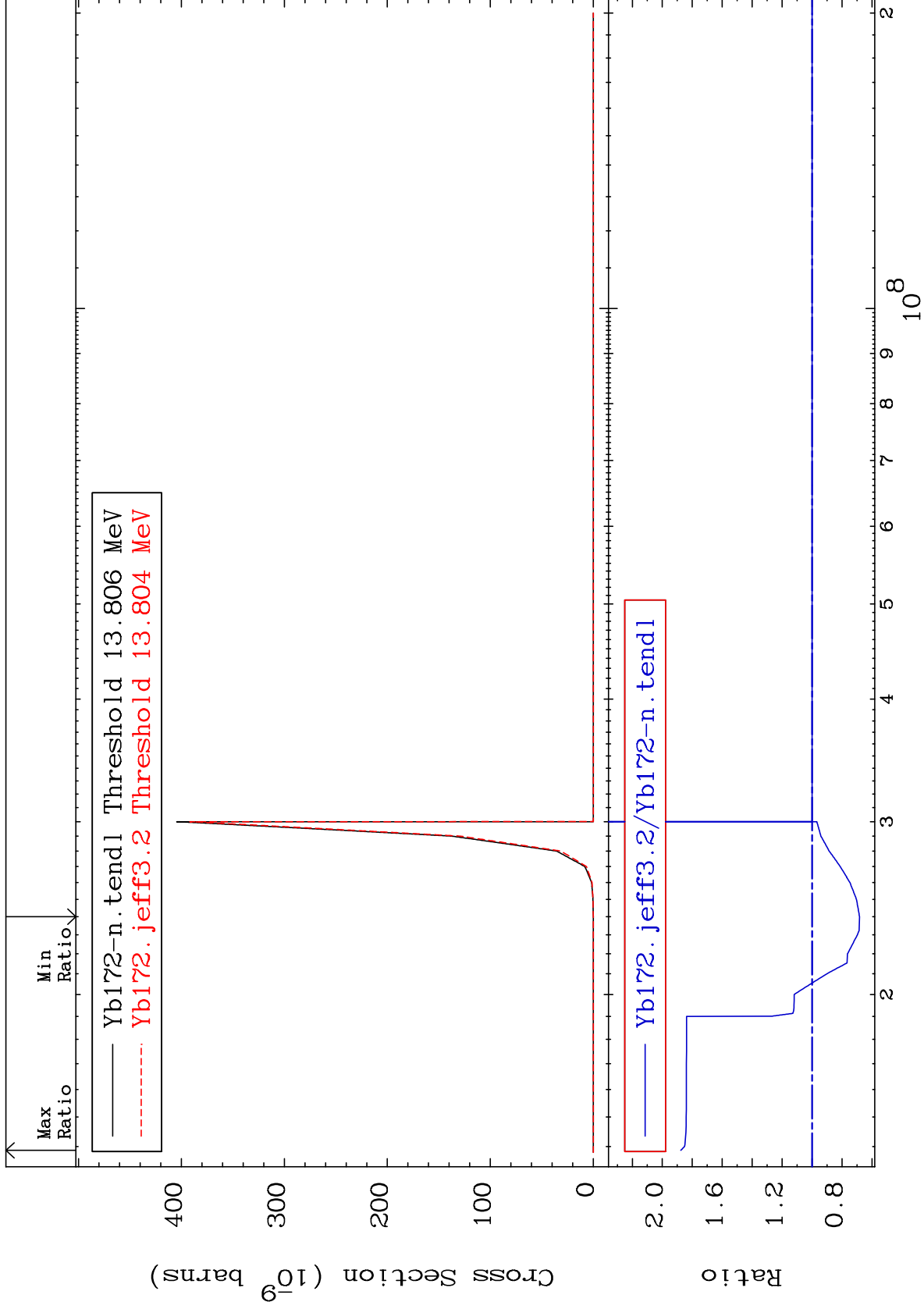
<sup>70</sup>Yb-172  
-34.26 To 24.28 %



MAT 7037

(n,2n) p  
Cross Section

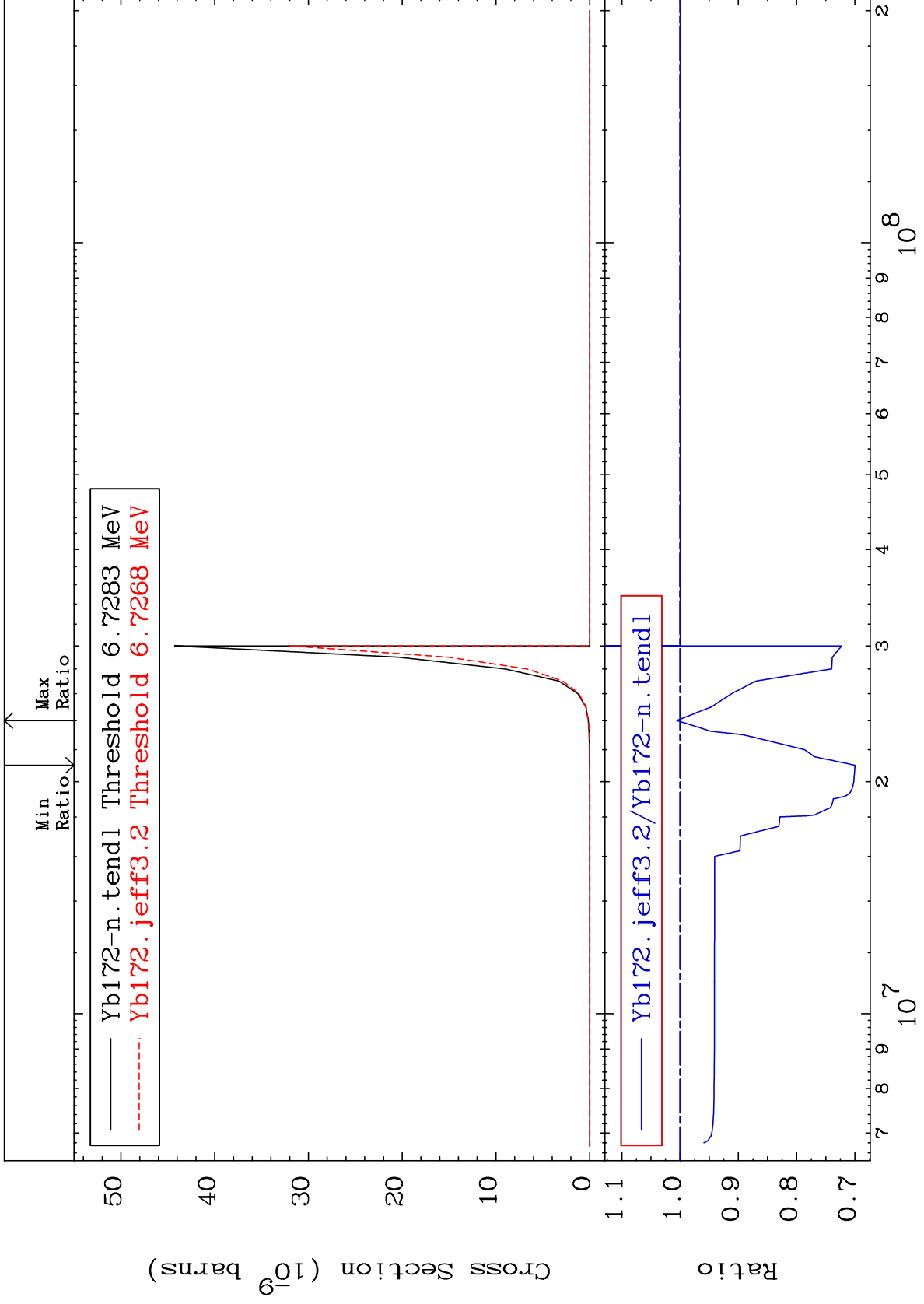
<sup>70</sup>Yb-172  
-31.72 To 87.65 %



MAT 7037

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

<sup>70</sup>Yb-172  
-30.02 To 0.546 %



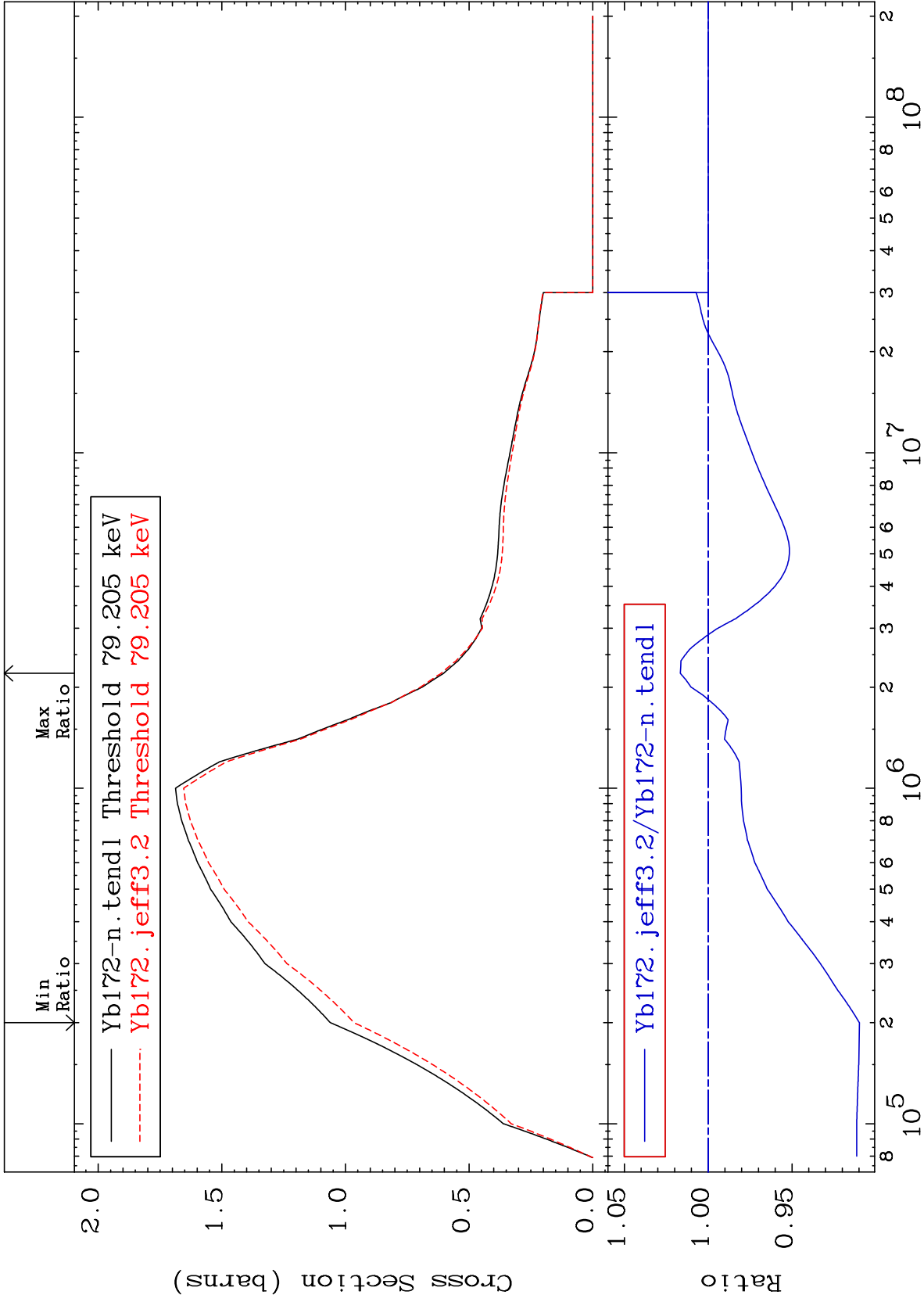
MAT 7037

78.74 keV (n,n') Level

70-Yb-172

-9.023 To 1.658 %

Cross Section



21

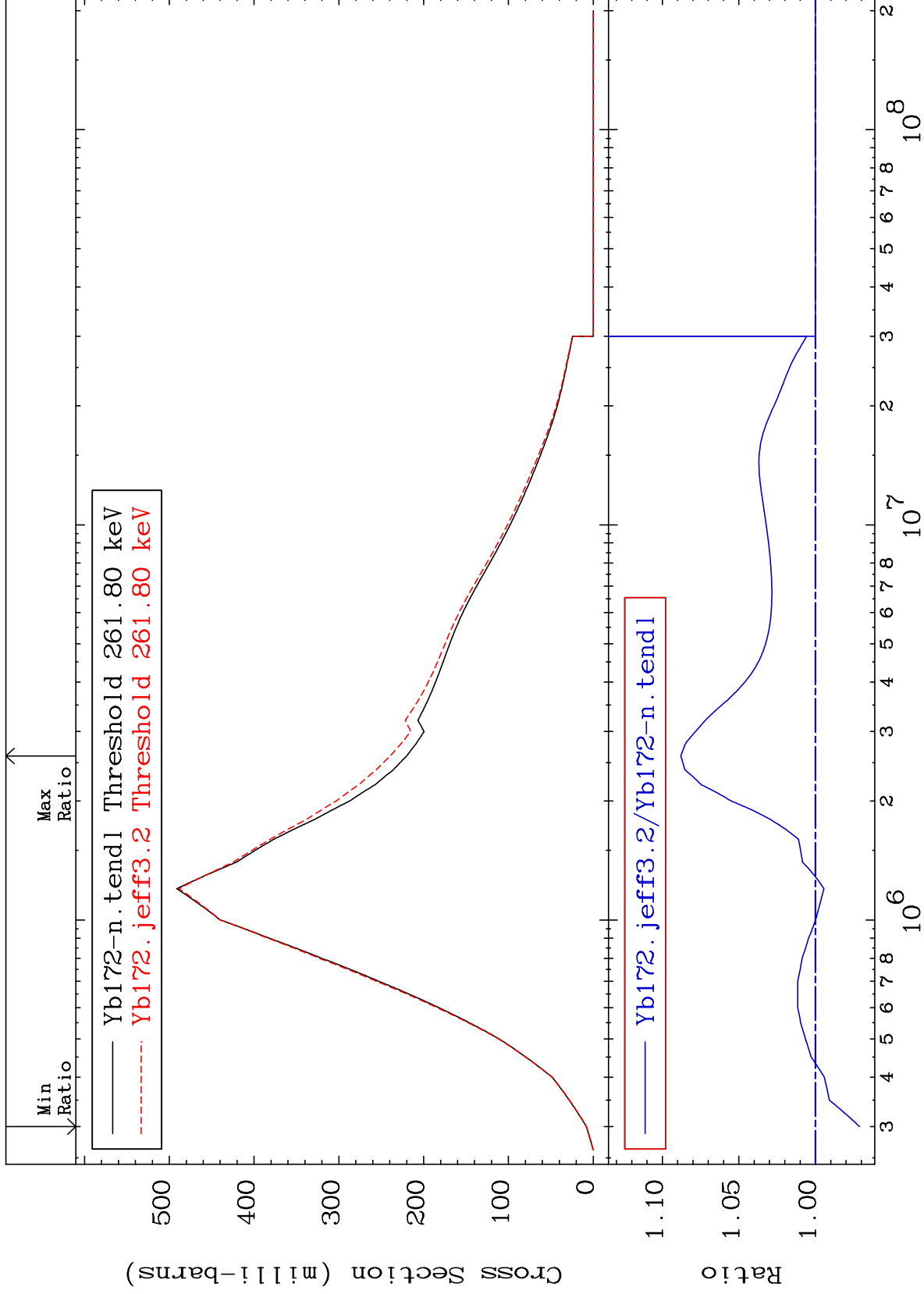
Incident Energy (eV)

70-Yb-172

MAT 7037

260.3 keV (n,n') Level  
Cross Section

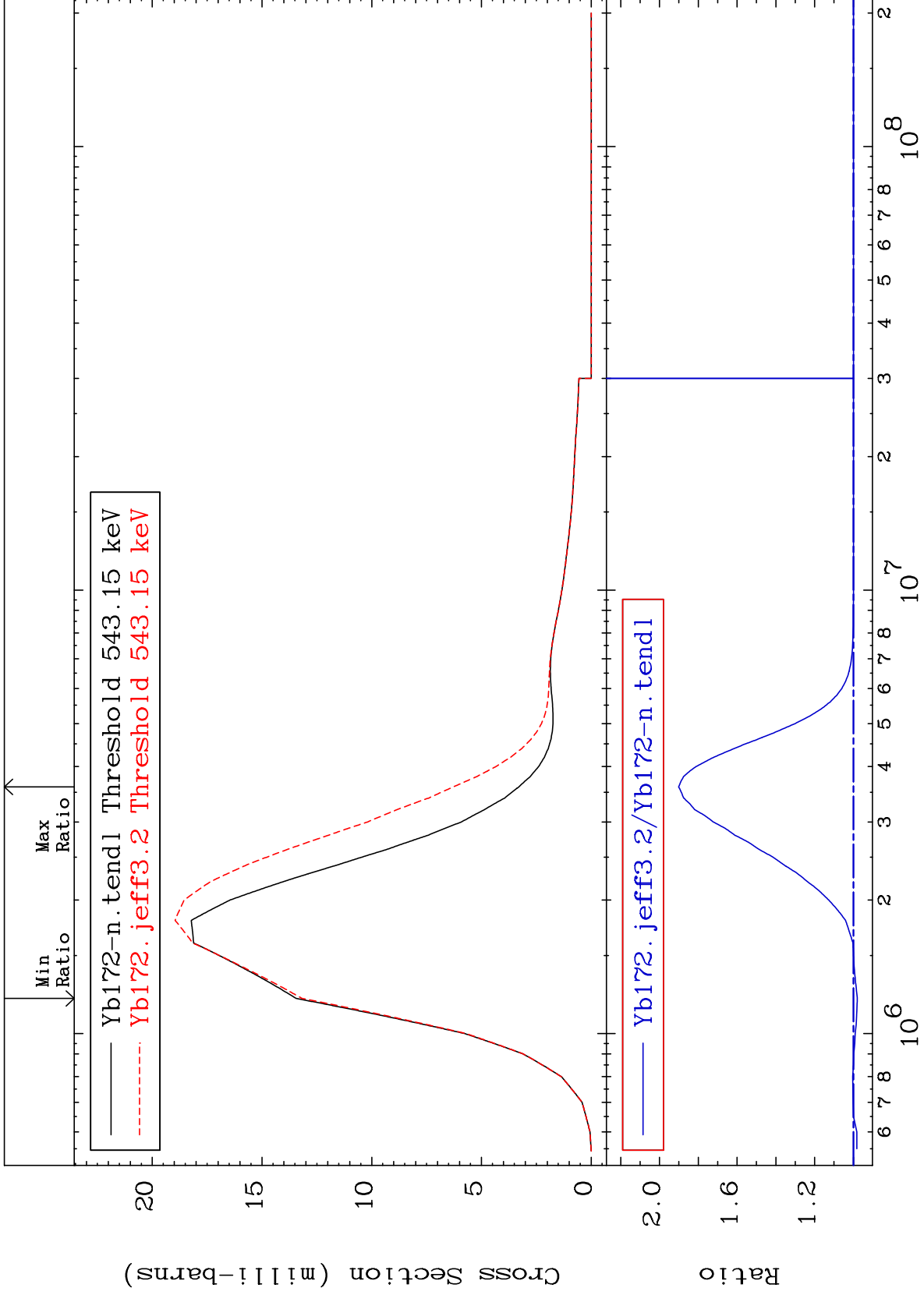
70-Yb-172  
-2.882 To 8.796 %



MAT 7037

540.0 keV (n,n') Level  
Cross Section

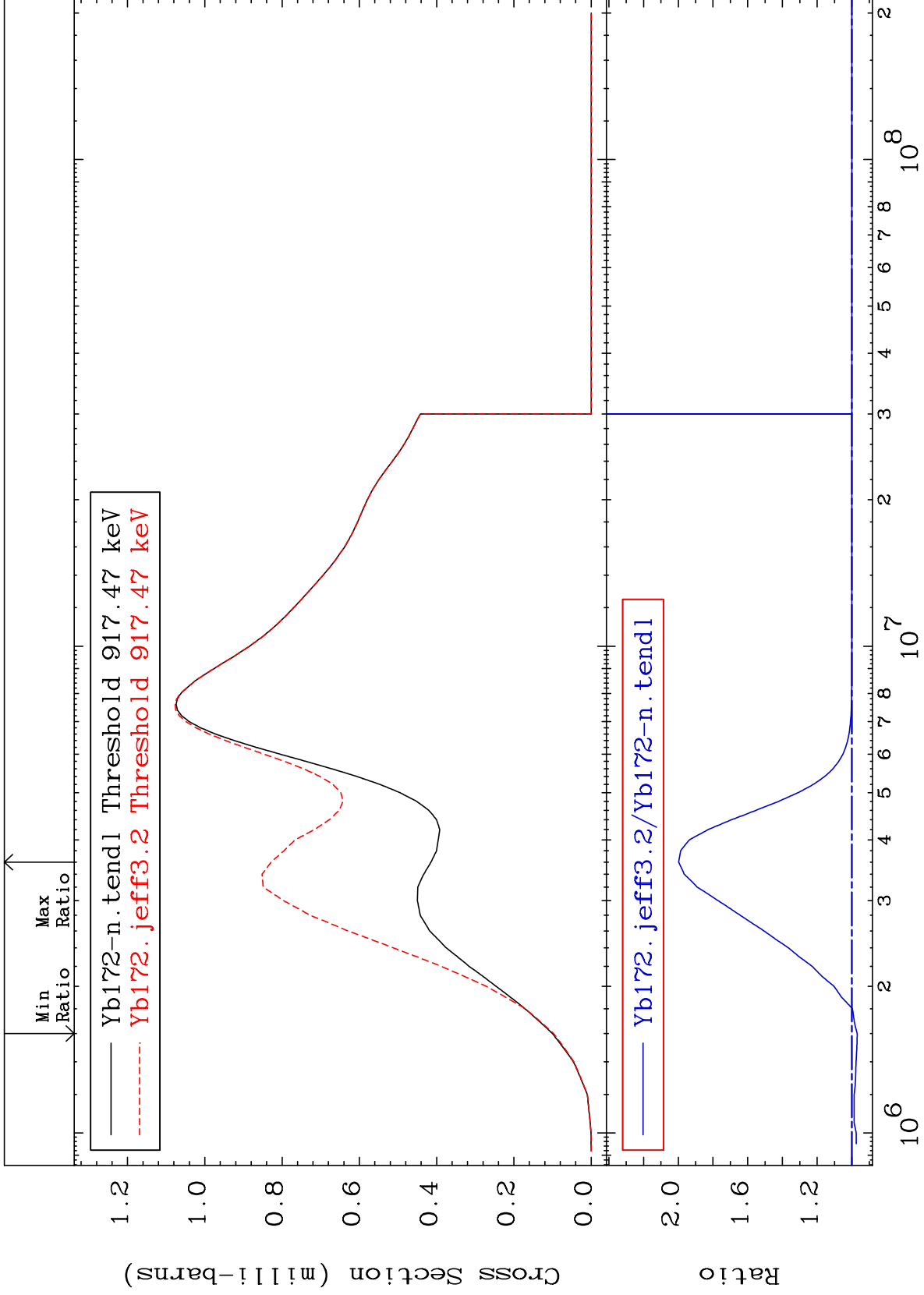
70-Yb-172  
-1.984 To 90.13 %



MAT 7037

912.1 keV (n,n') Level  
Cross Section

<sup>70</sup>Yb-172  
-3.092 To 99.80 %



24

Incident Energy (eV)

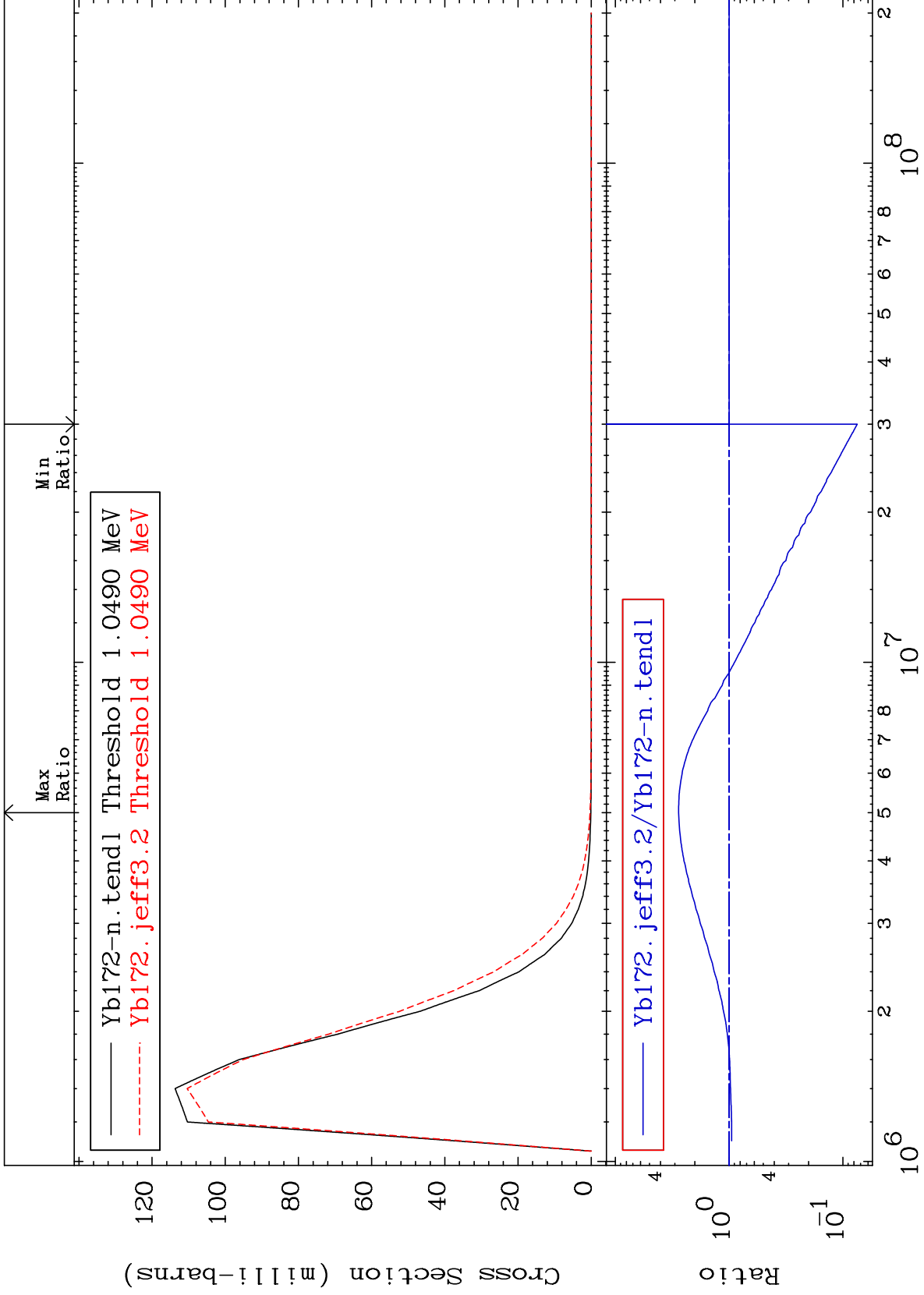
<sup>70</sup>Yb-172



MAT 7037

1.043 MeV (n,n') Level  
Cross Section

70-Yb-172  
-92.53 To 177.4 %



25

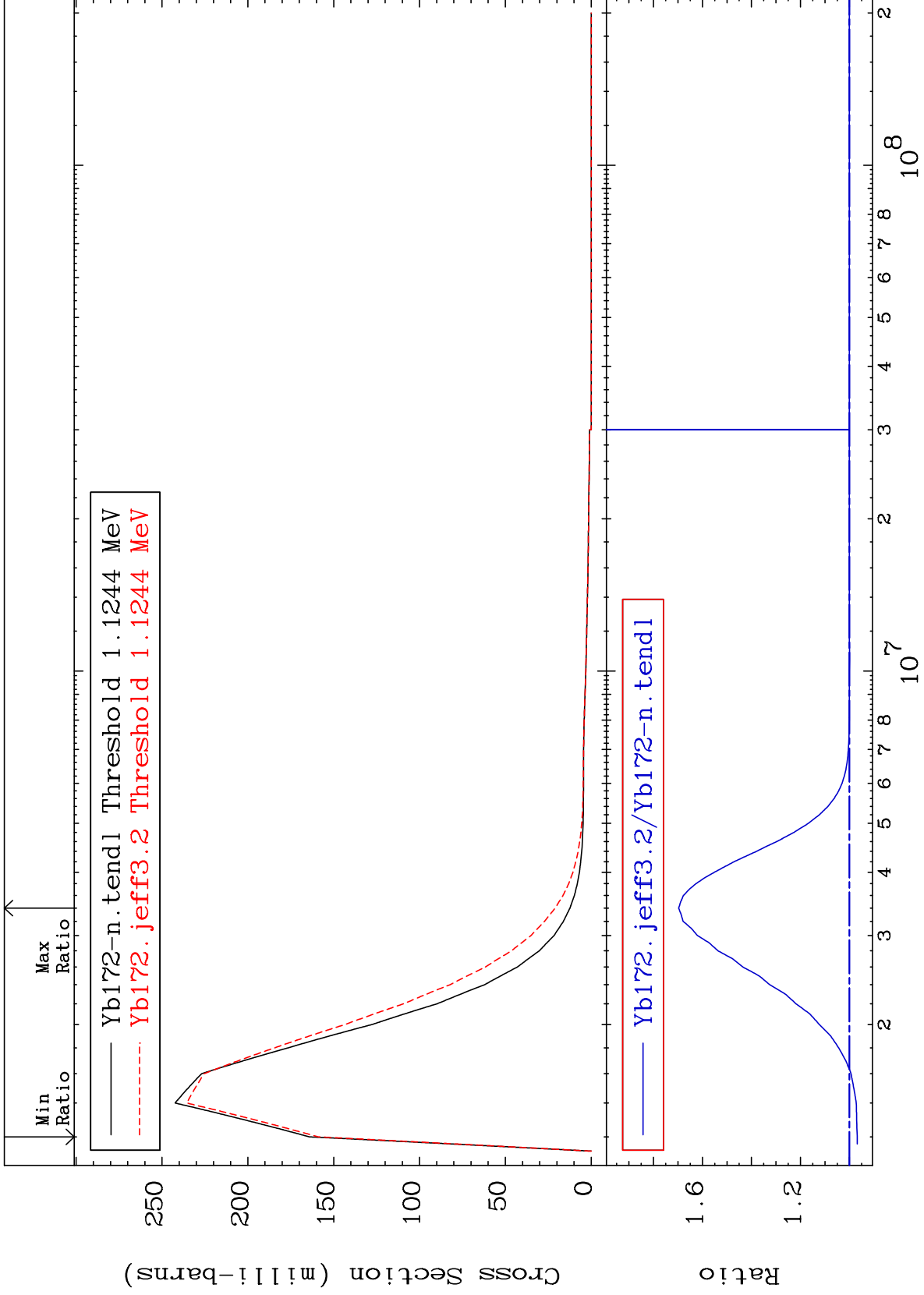
Incident Energy (eV)

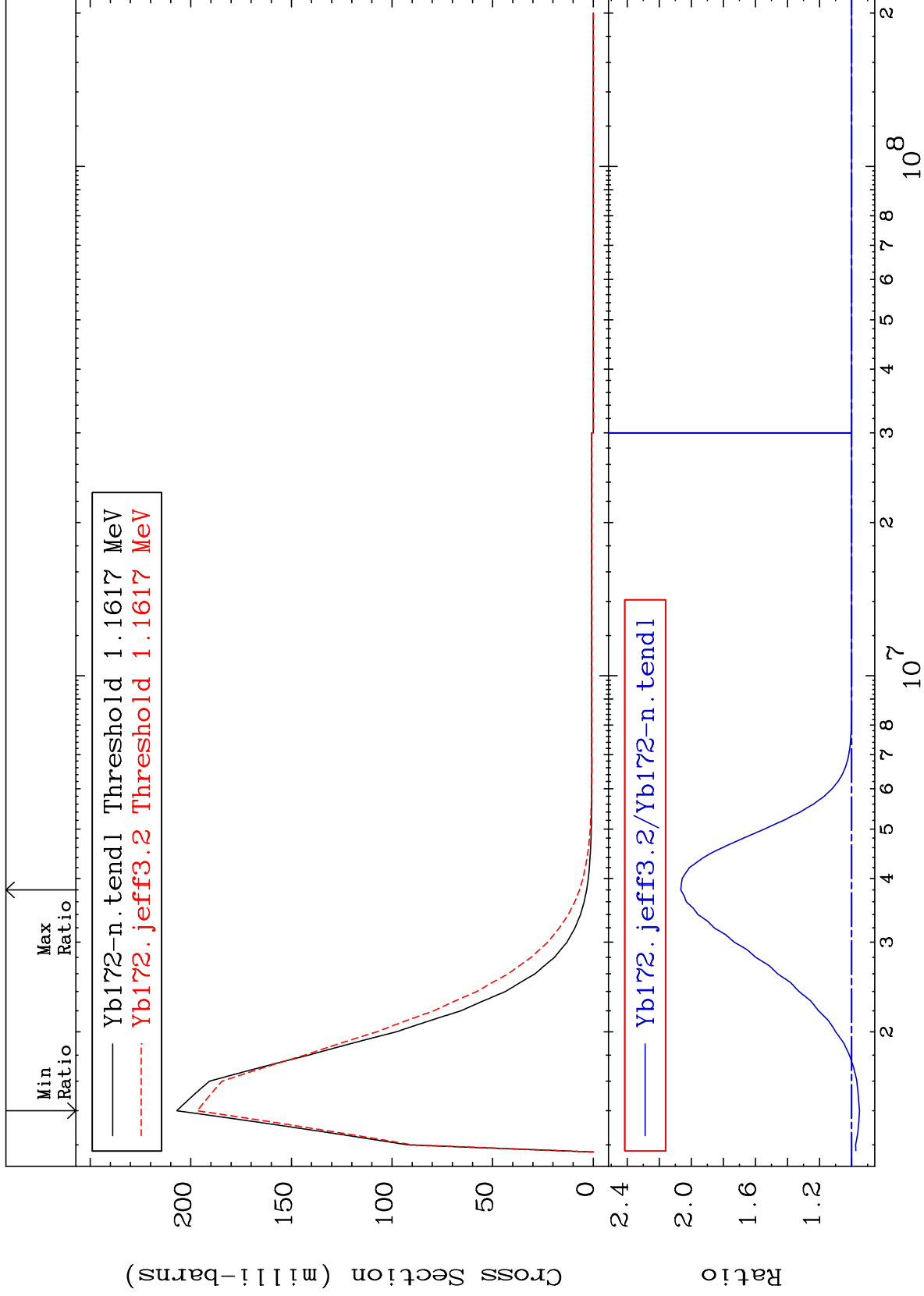
70-Yb-172

MAT 7037

1.118 MeV (n,n') Level  
Cross Section

70-Yb-172  
-3.186 To 69.72 %

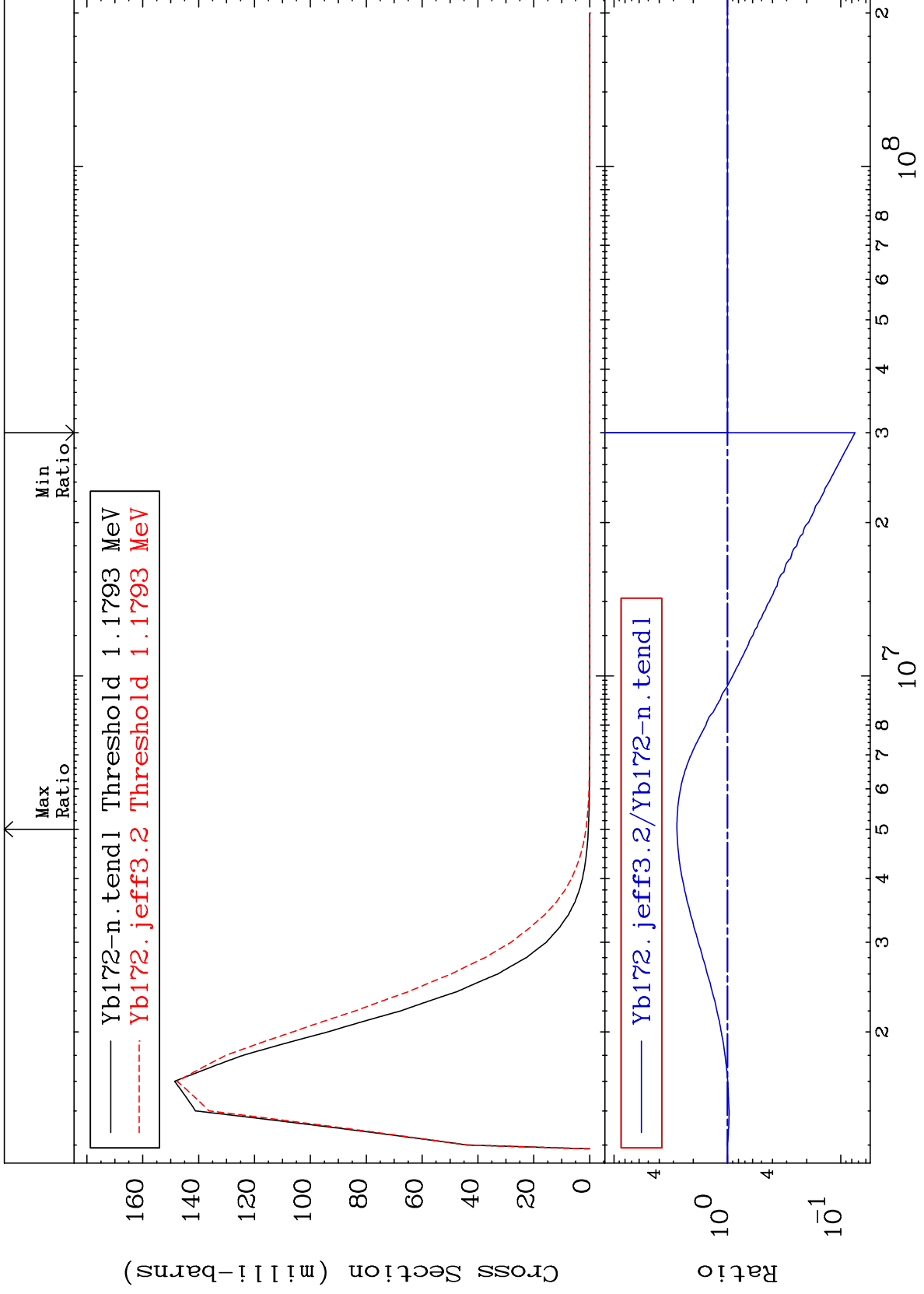




MAT 7037

1.172 MeV (n,n') Level  
Cross Section

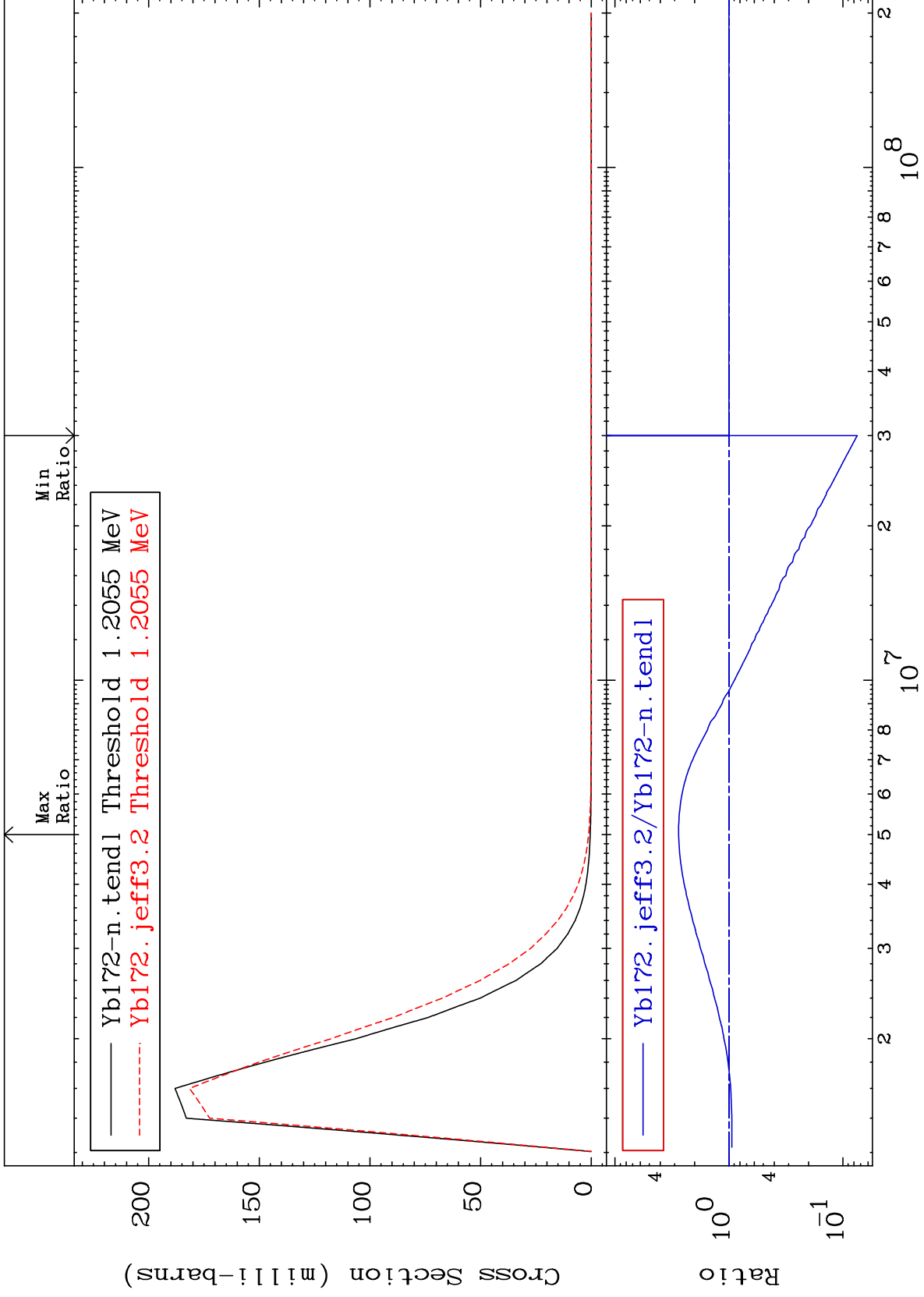
70-Yb-172  
-92.52 To 178.8 %



MAT 7037

1.198 MeV (n,n') Level  
Cross Section

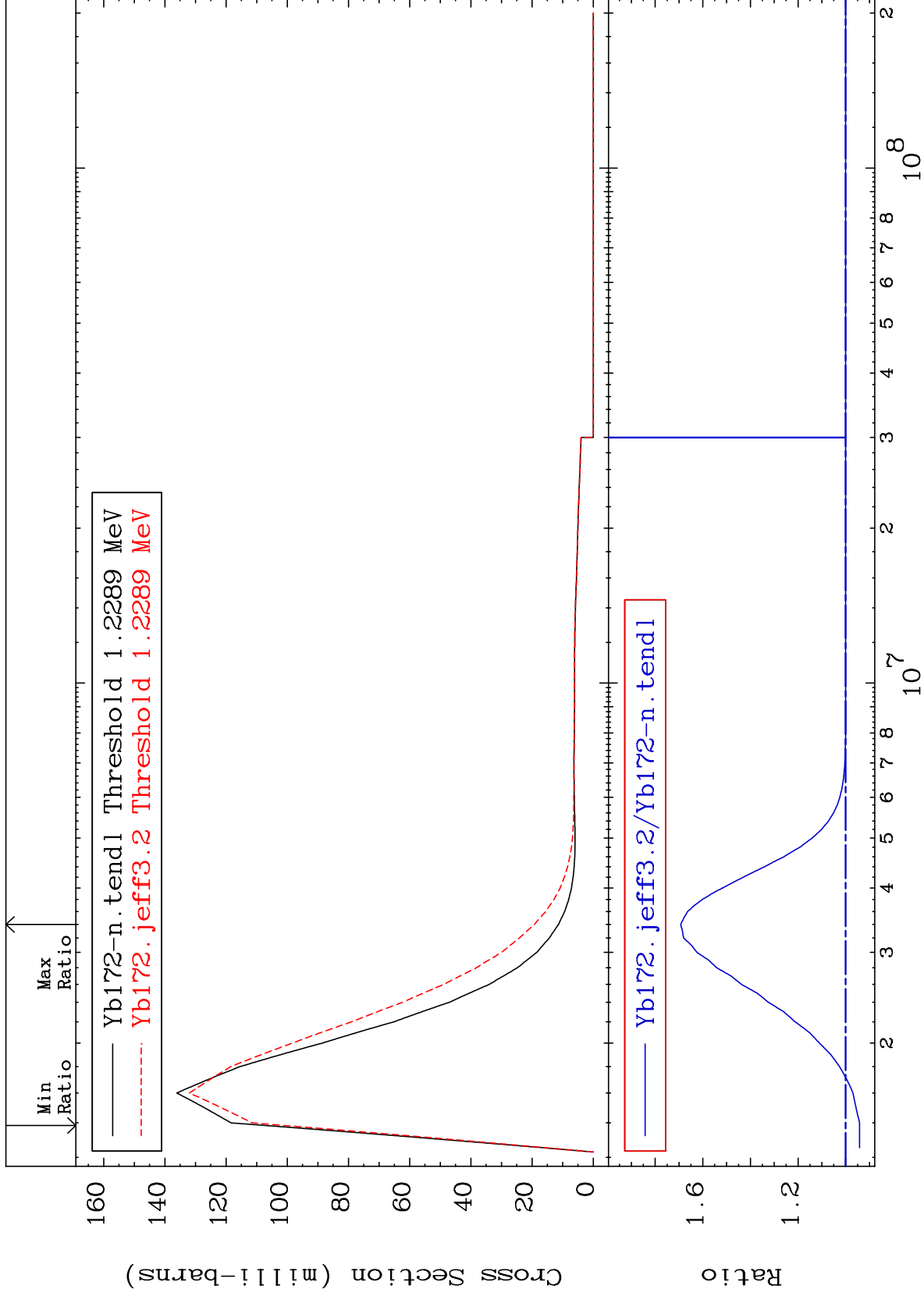
70-Yb-172  
-92.52 To 176.6 %



MAT 7037

1.222 MeV (n,n') Level  
Cross Section

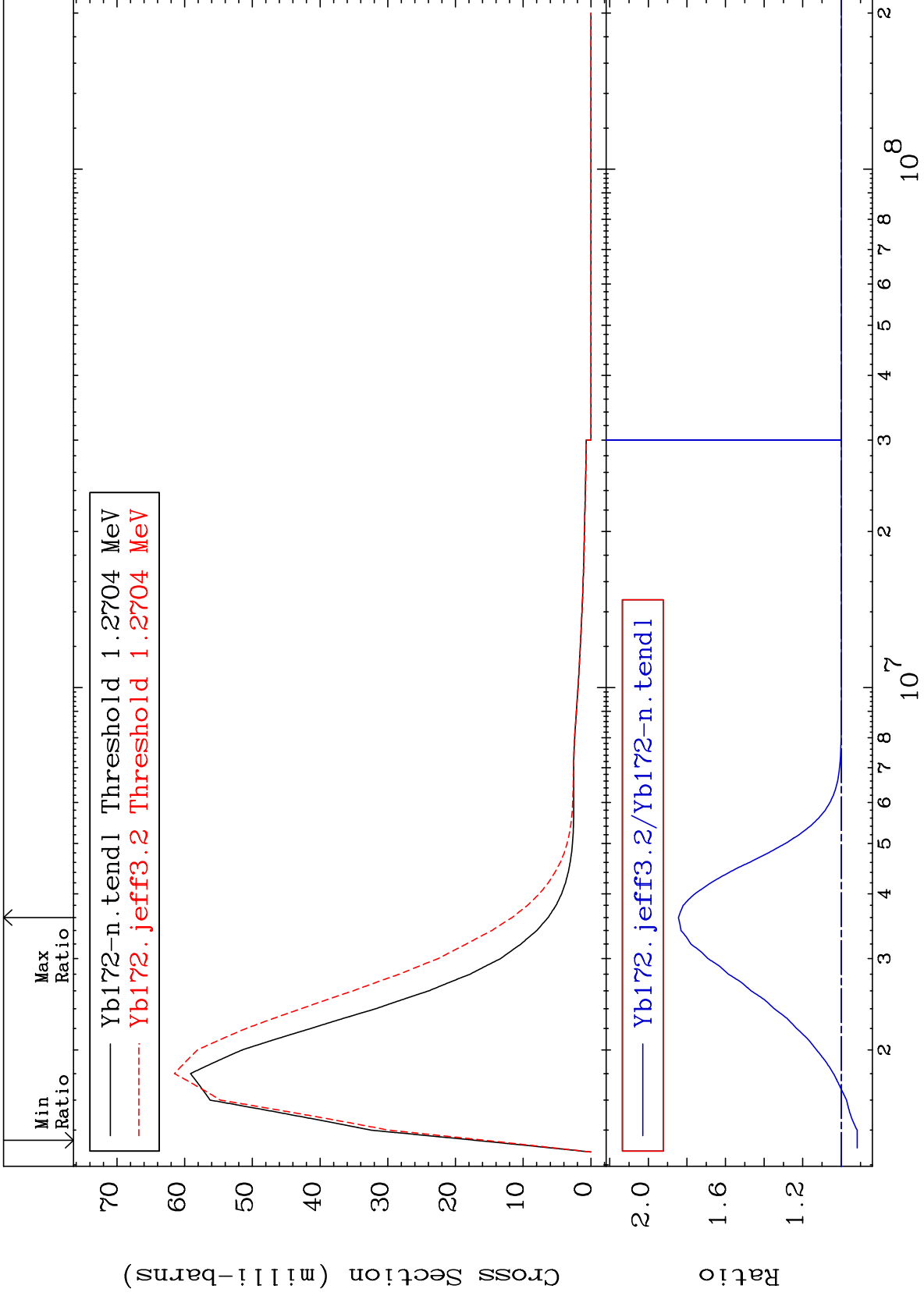
70-Yb-172  
-5.827 To 69.26 %



MAT 7037

1.263 MeV (n,n') Level  
Cross Section

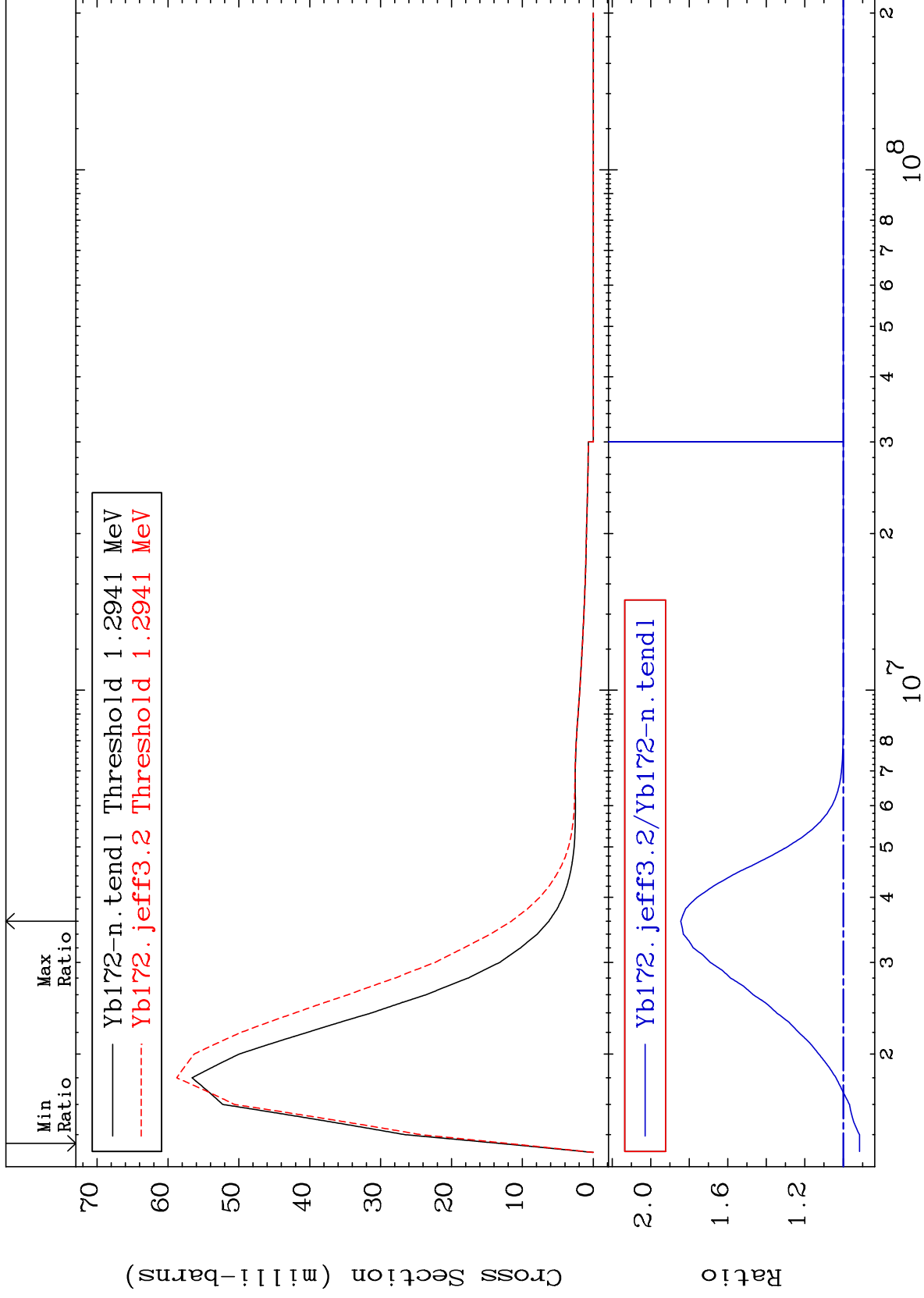
70-Yb-172  
-8.227 To 84.40 %



MAT 7037

1.287 MeV (n,n') Level  
Cross Section

70-Yb-172  
-8.434 To 84.40 %

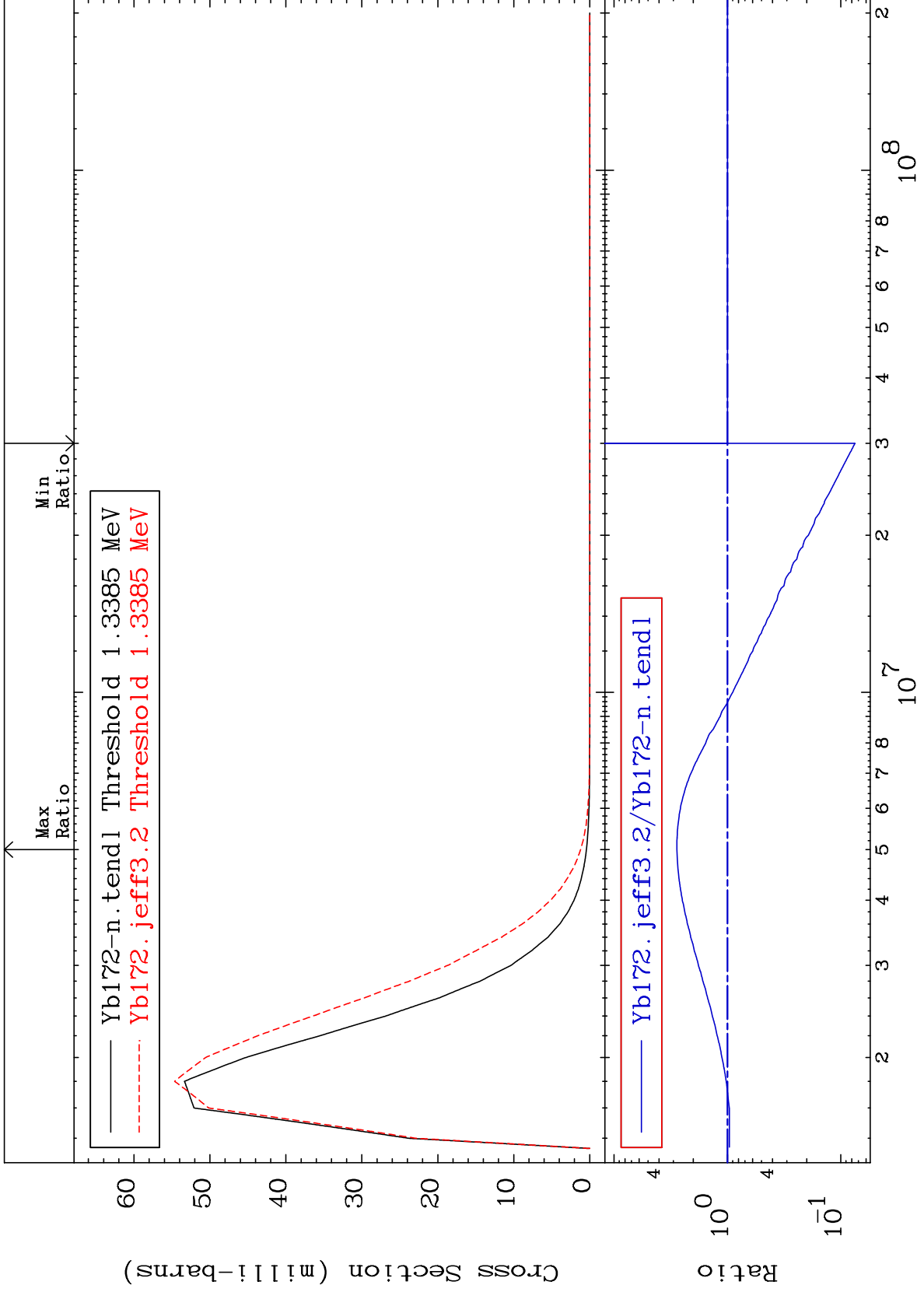




MAT 7037

1.331 MeV (n,n') Level  
Cross Section

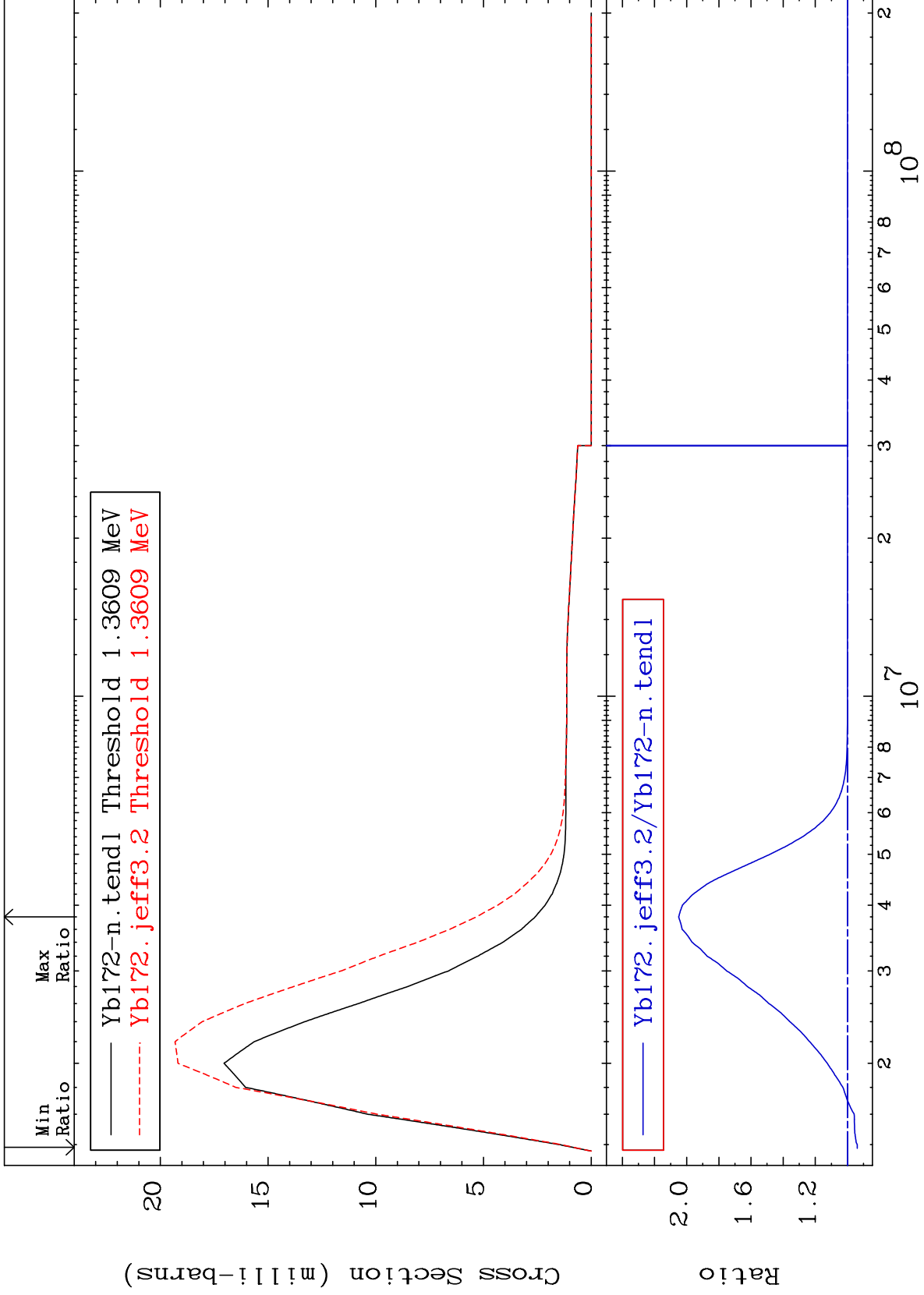
70-Yb-172  
-92.51 To 178.7 %

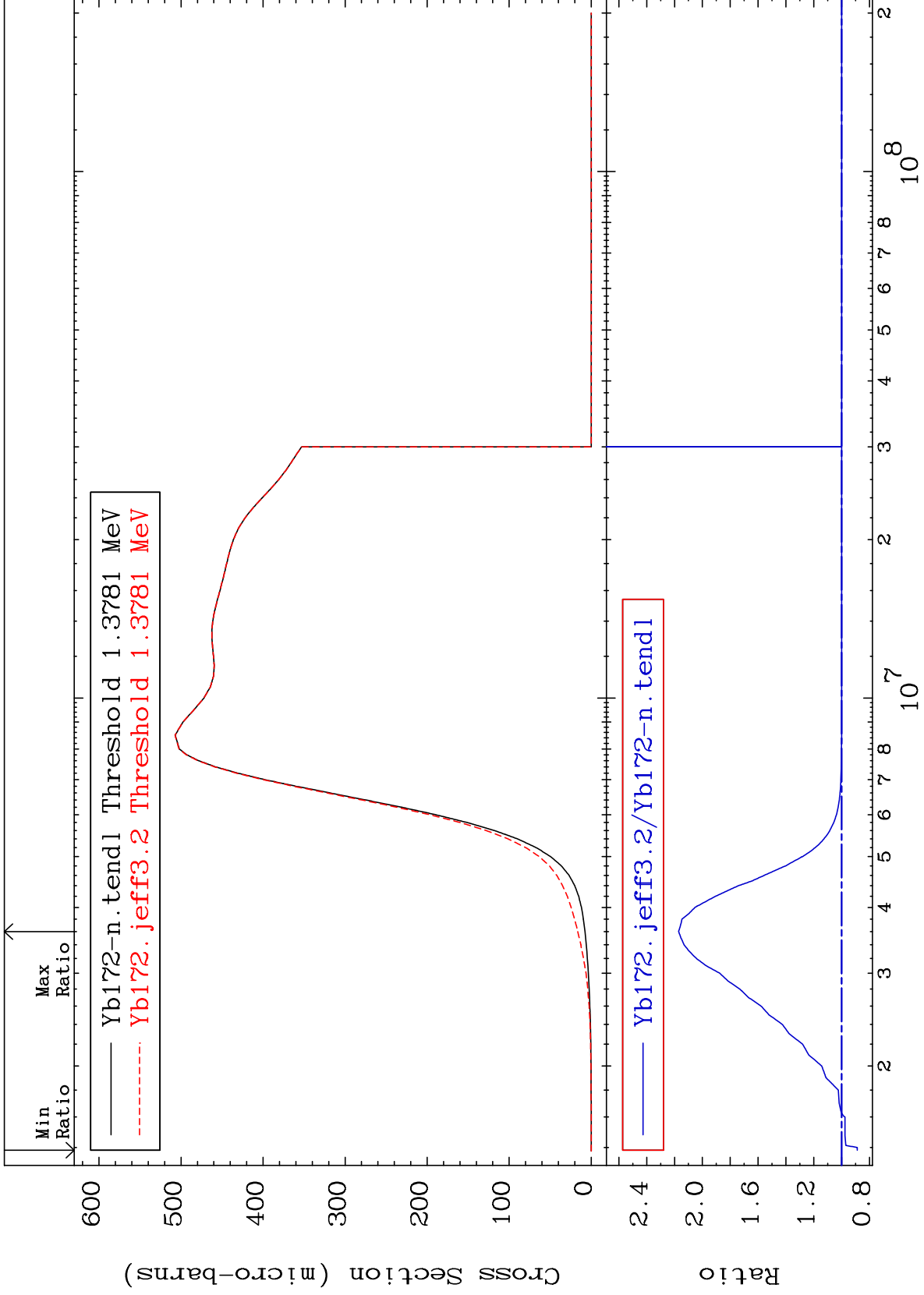


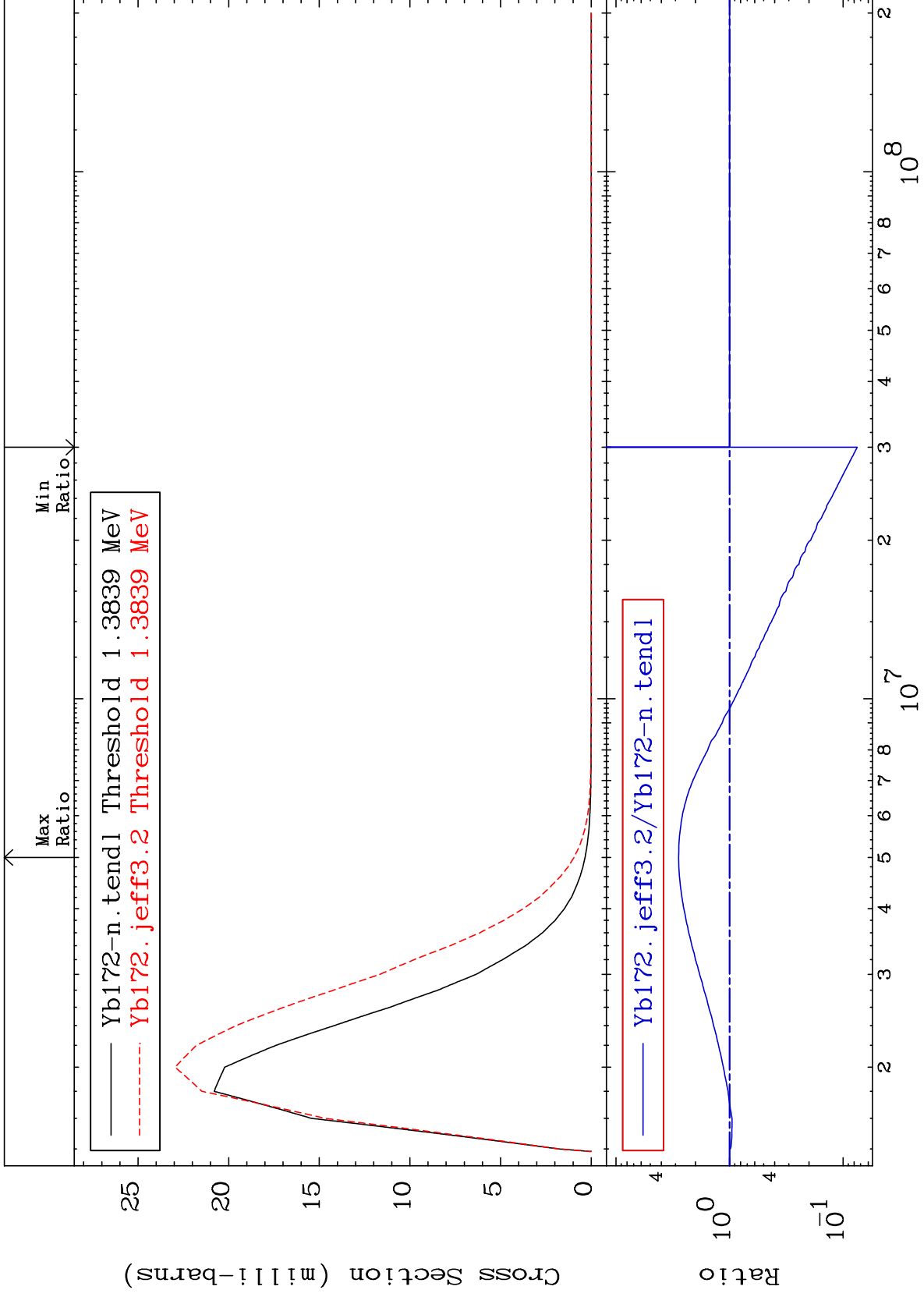
MAT 7037

1.353 MeV (n,n') Level  
Cross Section

70-Yb-172  
-6.094 To 105.0 %



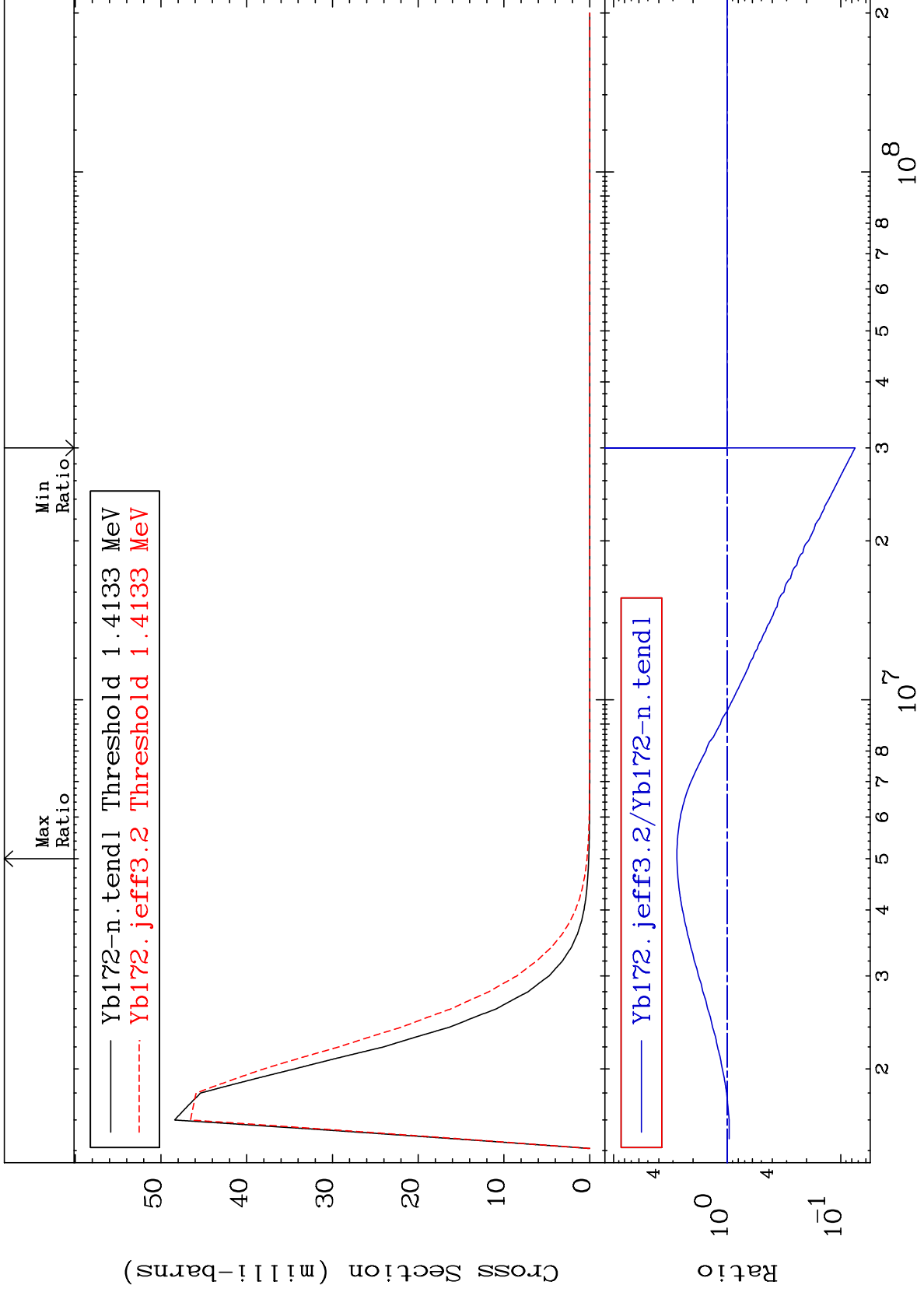




MAT 7037

1.405 MeV (n,n') Level  
Cross Section

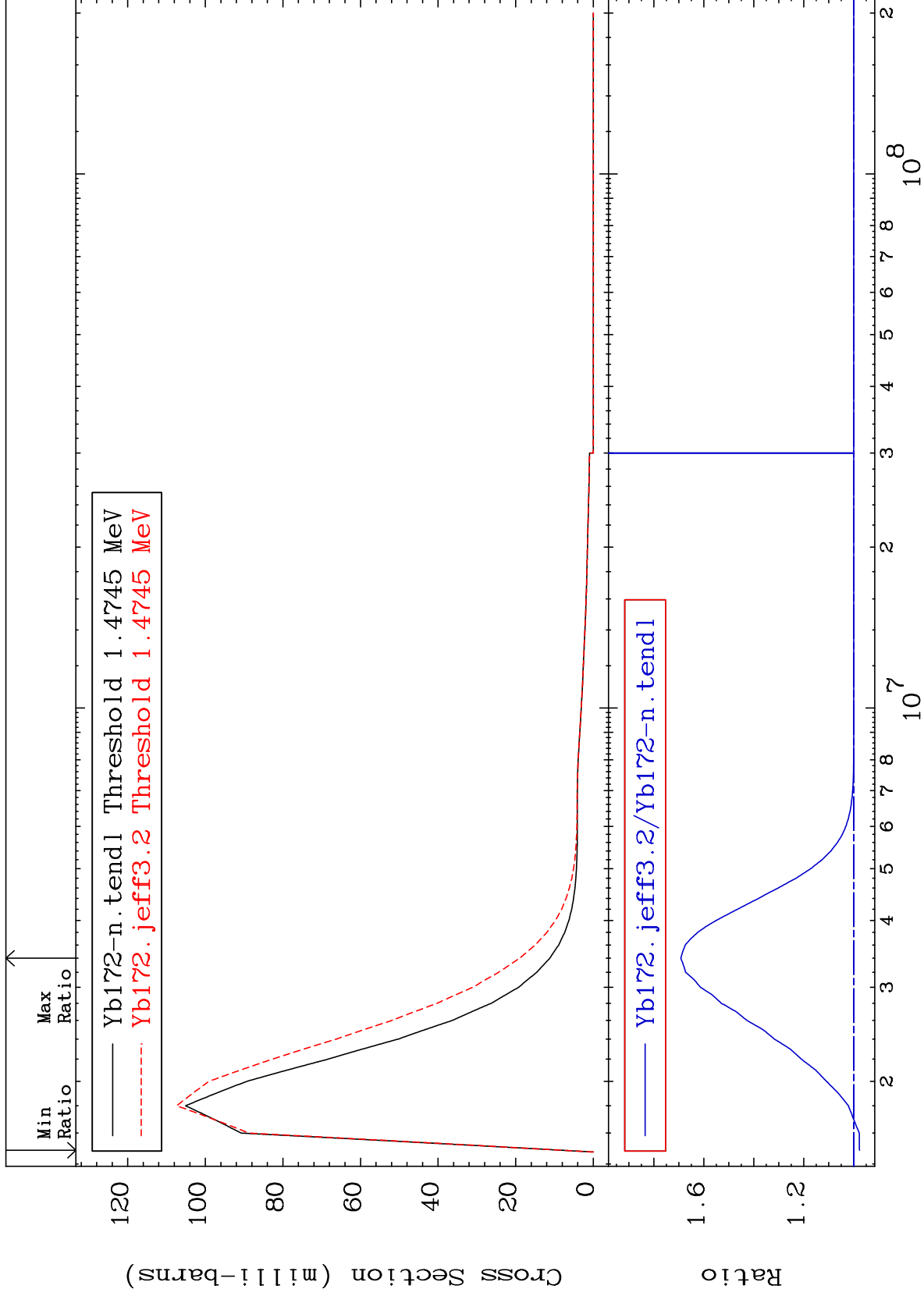
70-Yb-172  
-92.53 To 177.2 %



MAT 7037

1.466 MeV (n,n') Level  
Cross Section

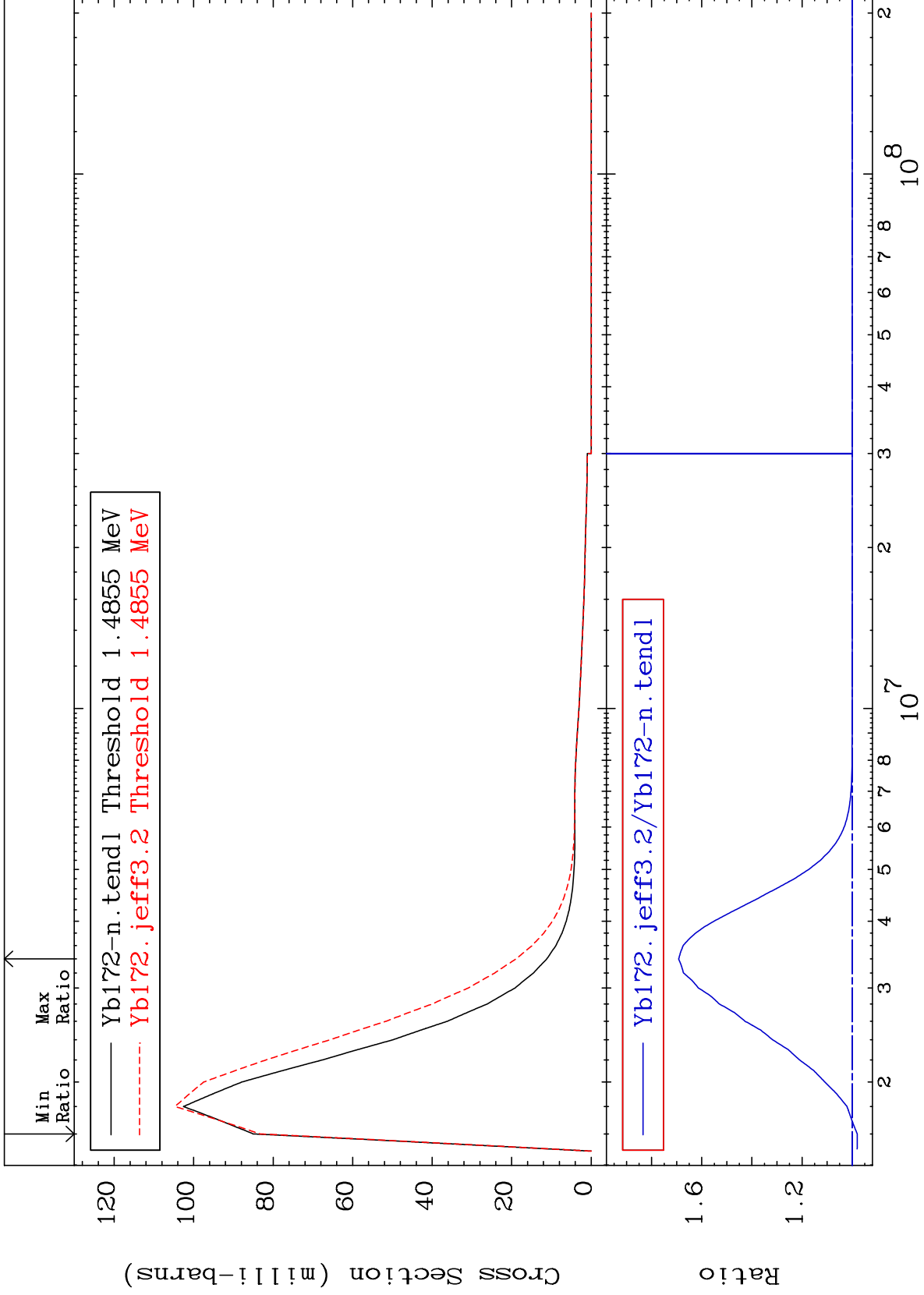
70-Yb-172  
-2.300 To 69.24 %



MAT 7037

1.477 MeV (n,n') Level  
Cross Section

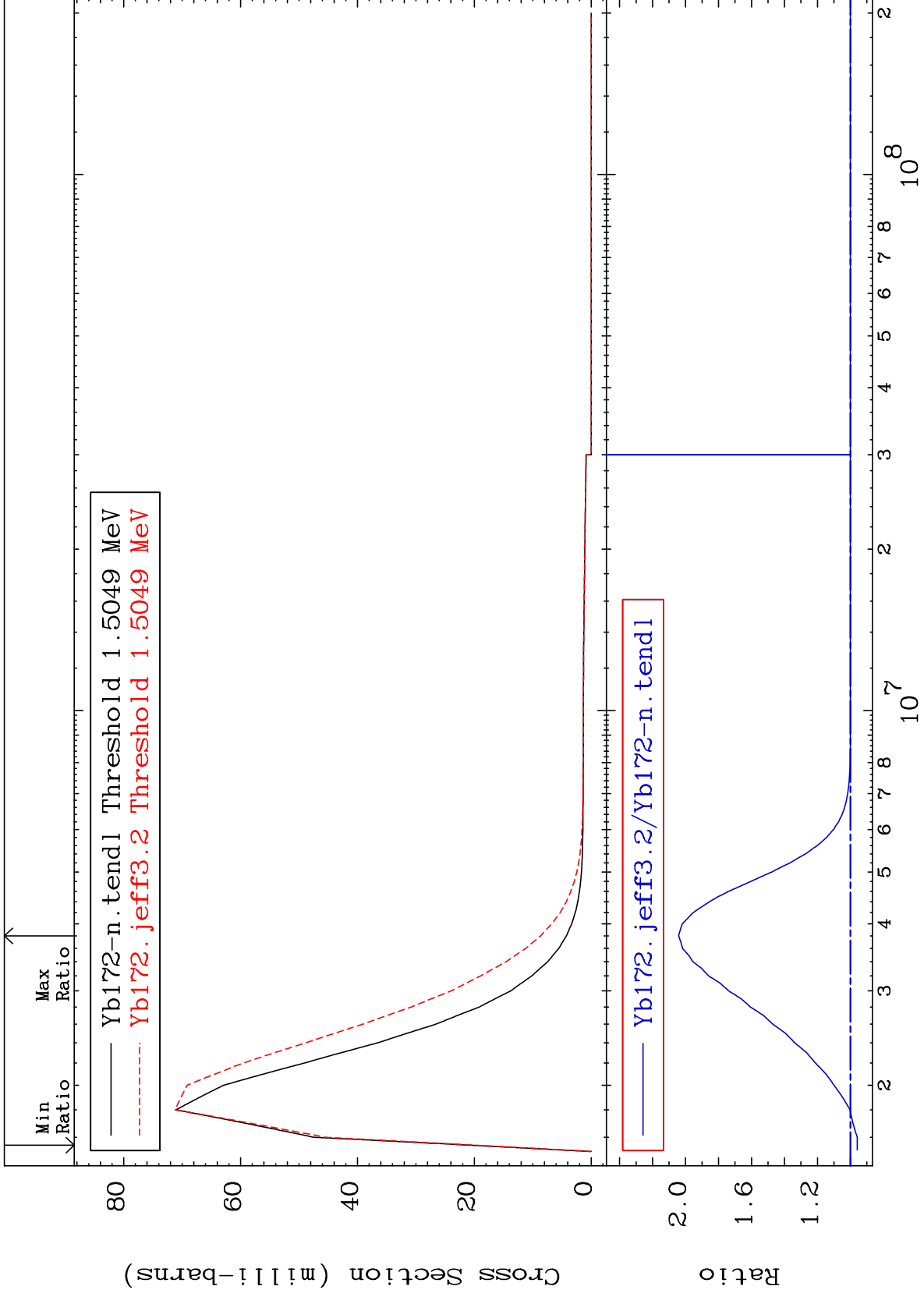
70-Yb-172  
-2.021 To 69.22 %



MAT 7037

1.496 MeV (n,n') Level  
Cross Section

<sup>70</sup>Yb-172  
-4.144 To 104.2 %

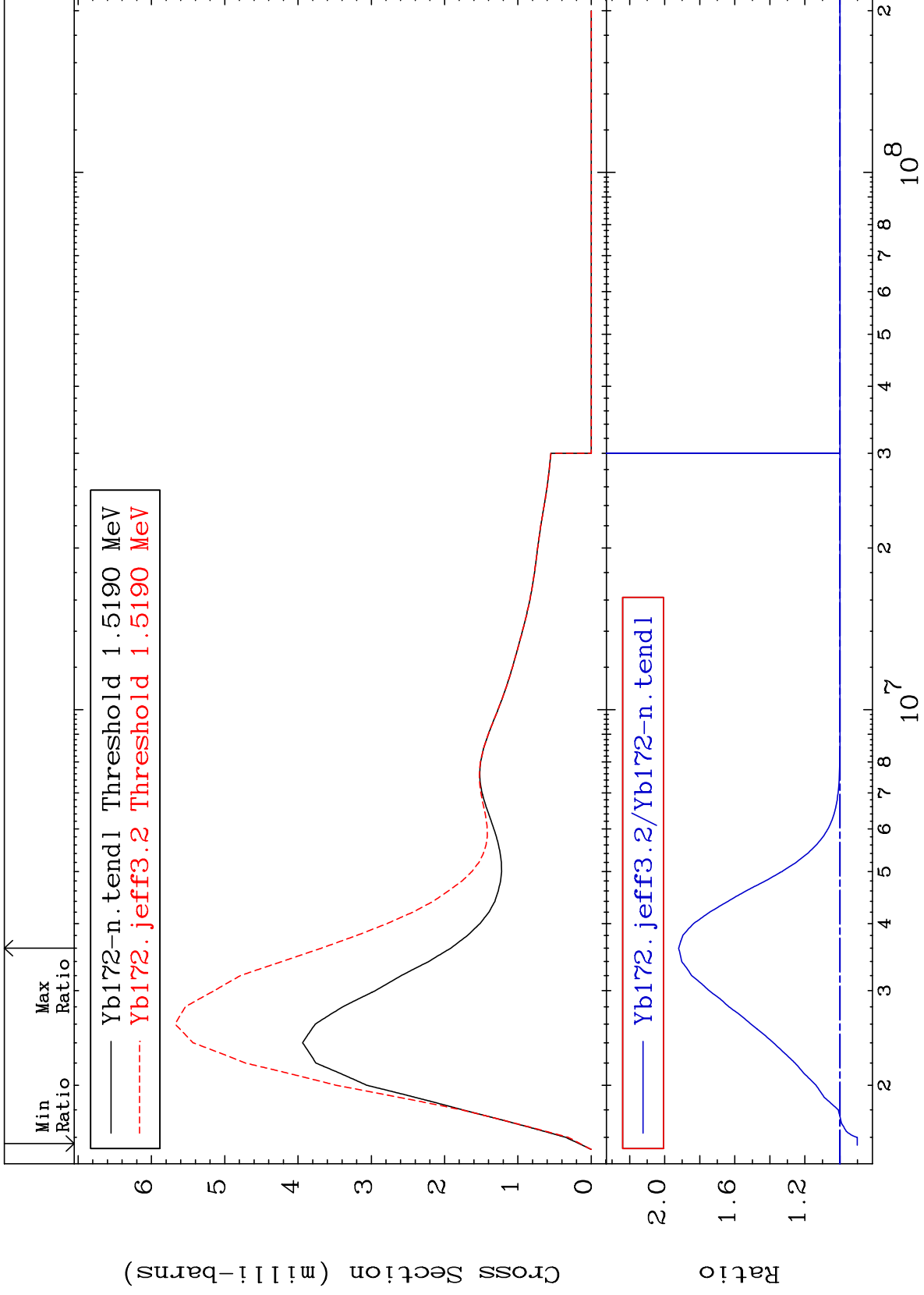




MAT 7037

1.510 MeV (n,n') Level  
Cross Section

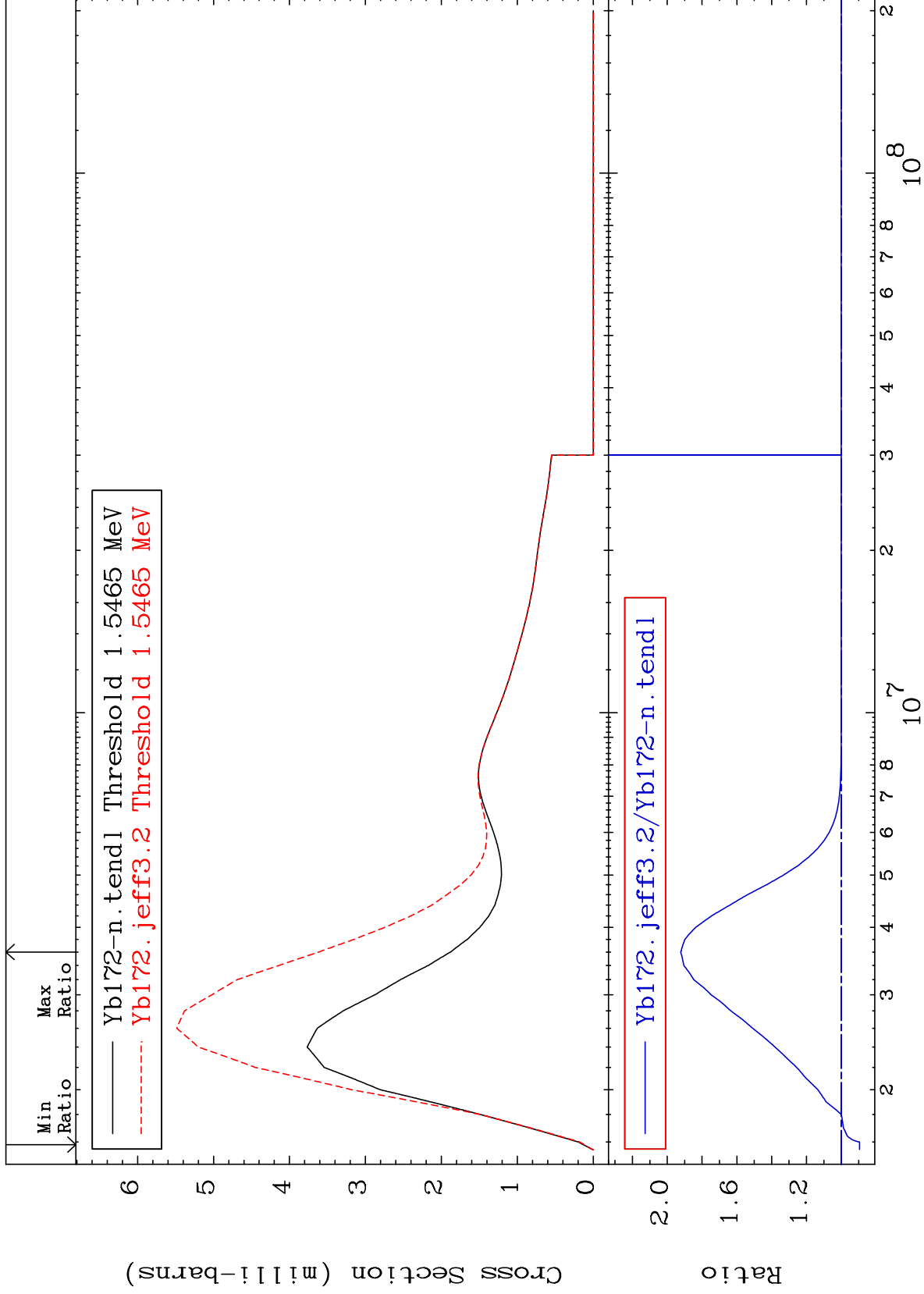
<sup>70</sup>Yb-172  
-9.856 To 92.04 %



MAT 7037

1.537 MeV (n,n') Level  
Cross Section

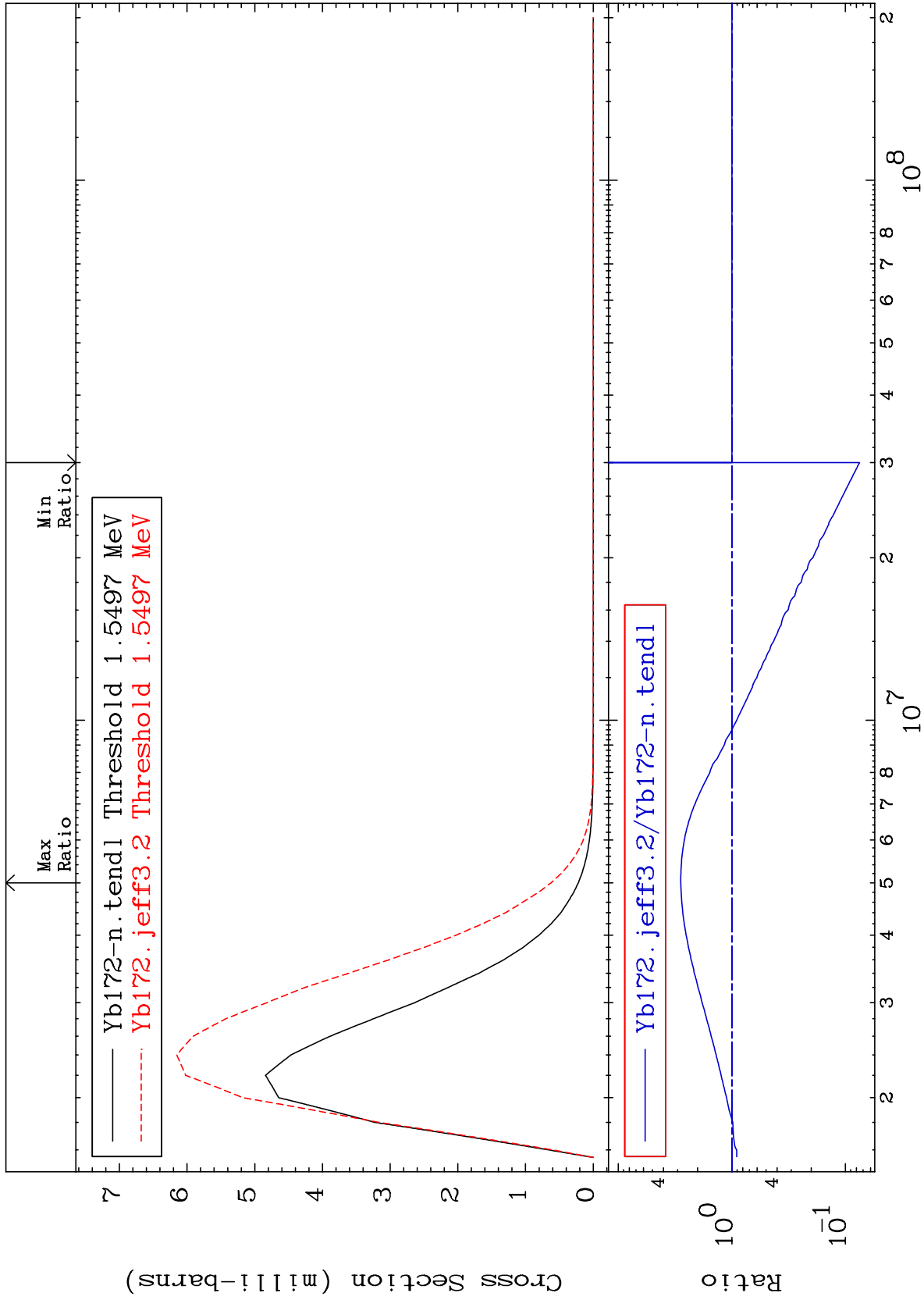
70-Yb-172  
-10.51 To 92.23 %



MAT 7037

1.541 MeV (n,n') Level  
Cross Section

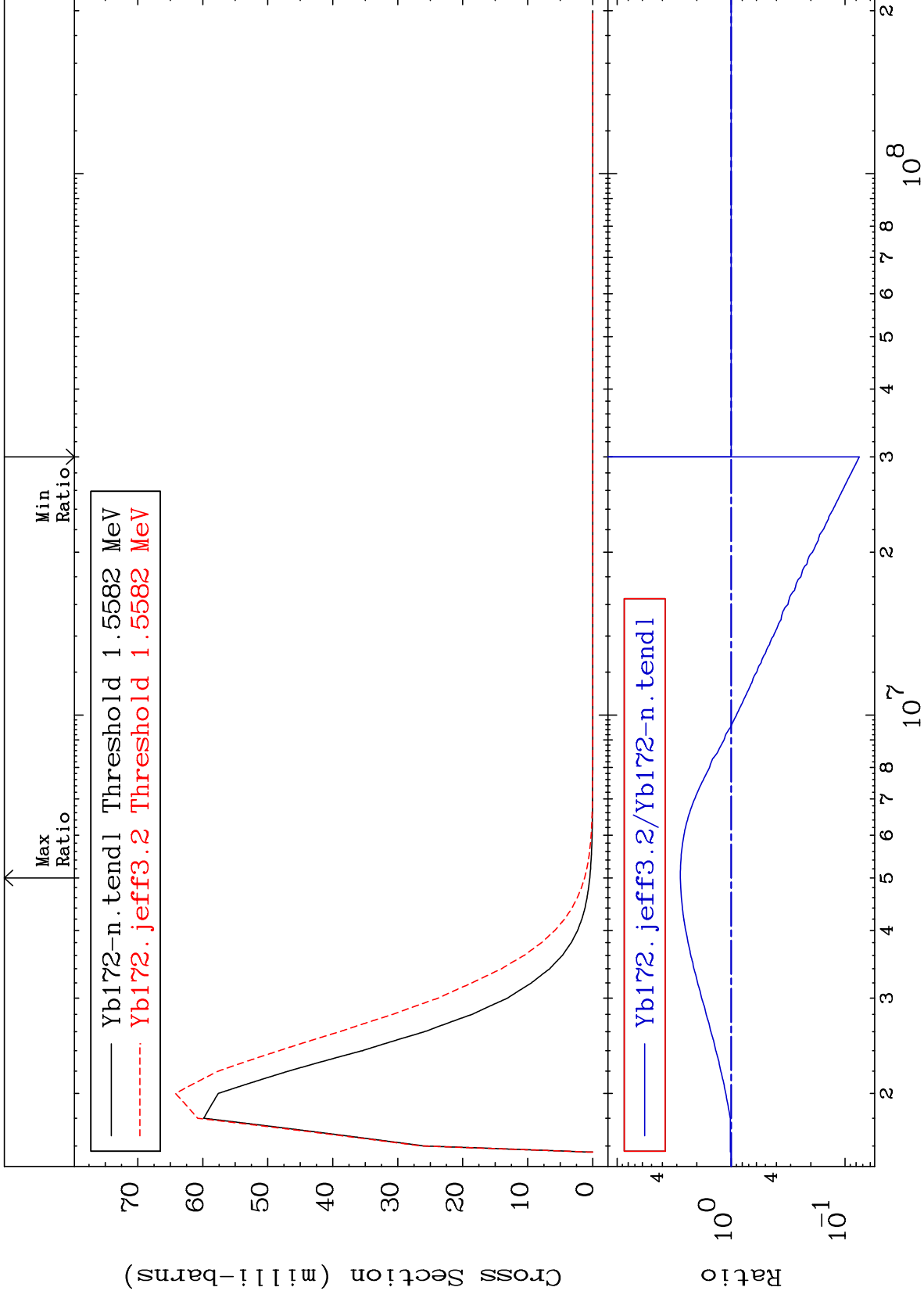
70-Yb-172  
-92.49 To 181.7 %



MAT 7037

1.549 MeV (n,n') Level  
Cross Section

70-Yb-172  
-92.52 To 178.7 %



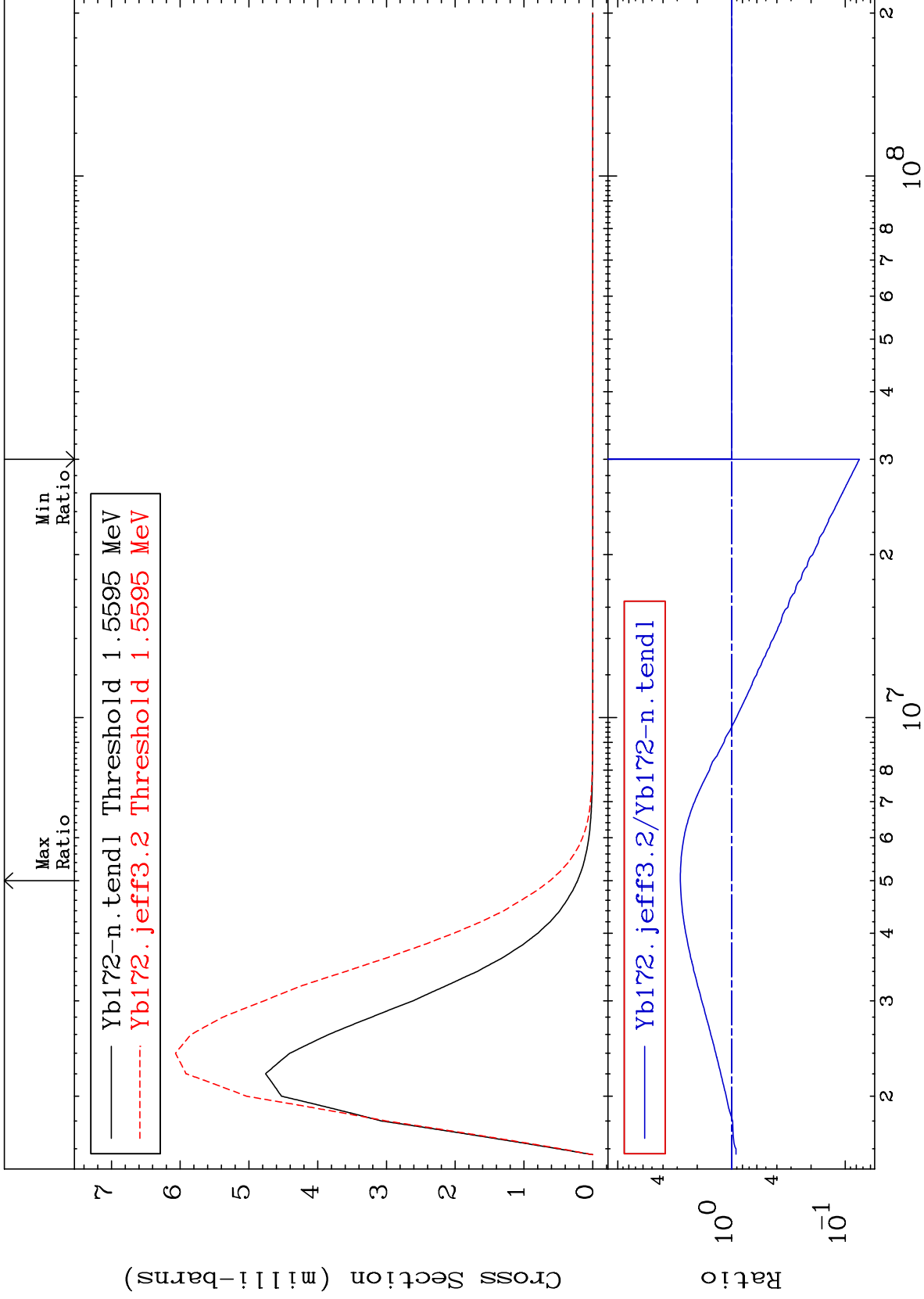
MAT 7037

1.550 MeV (n,n') Level

70-Yb-172

-92.49 To 181.7 %

Cross Section



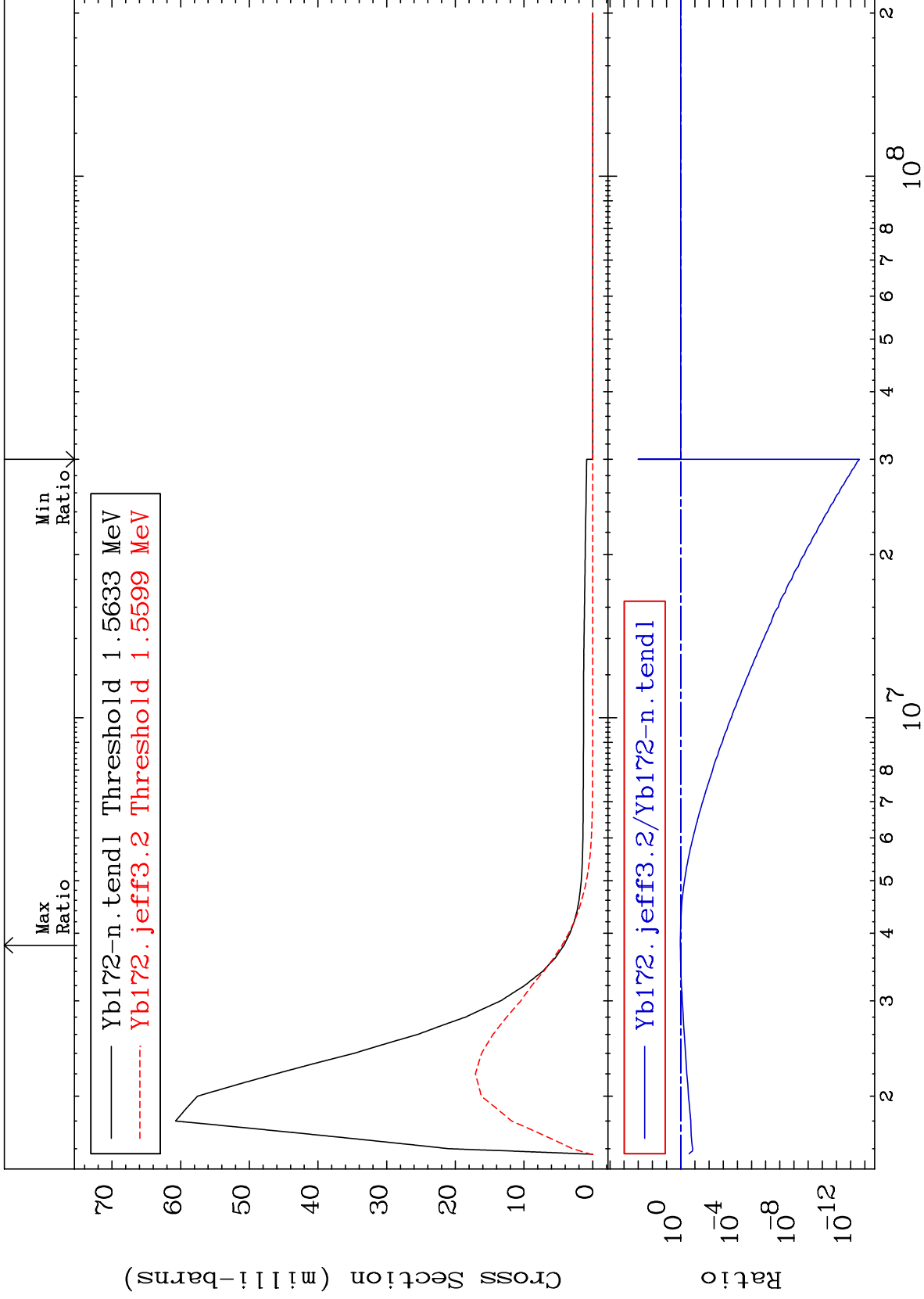
MAT 7037

1.554 MeV (n,n') Level

70-Yb-172

-100.0 To 6.456 %

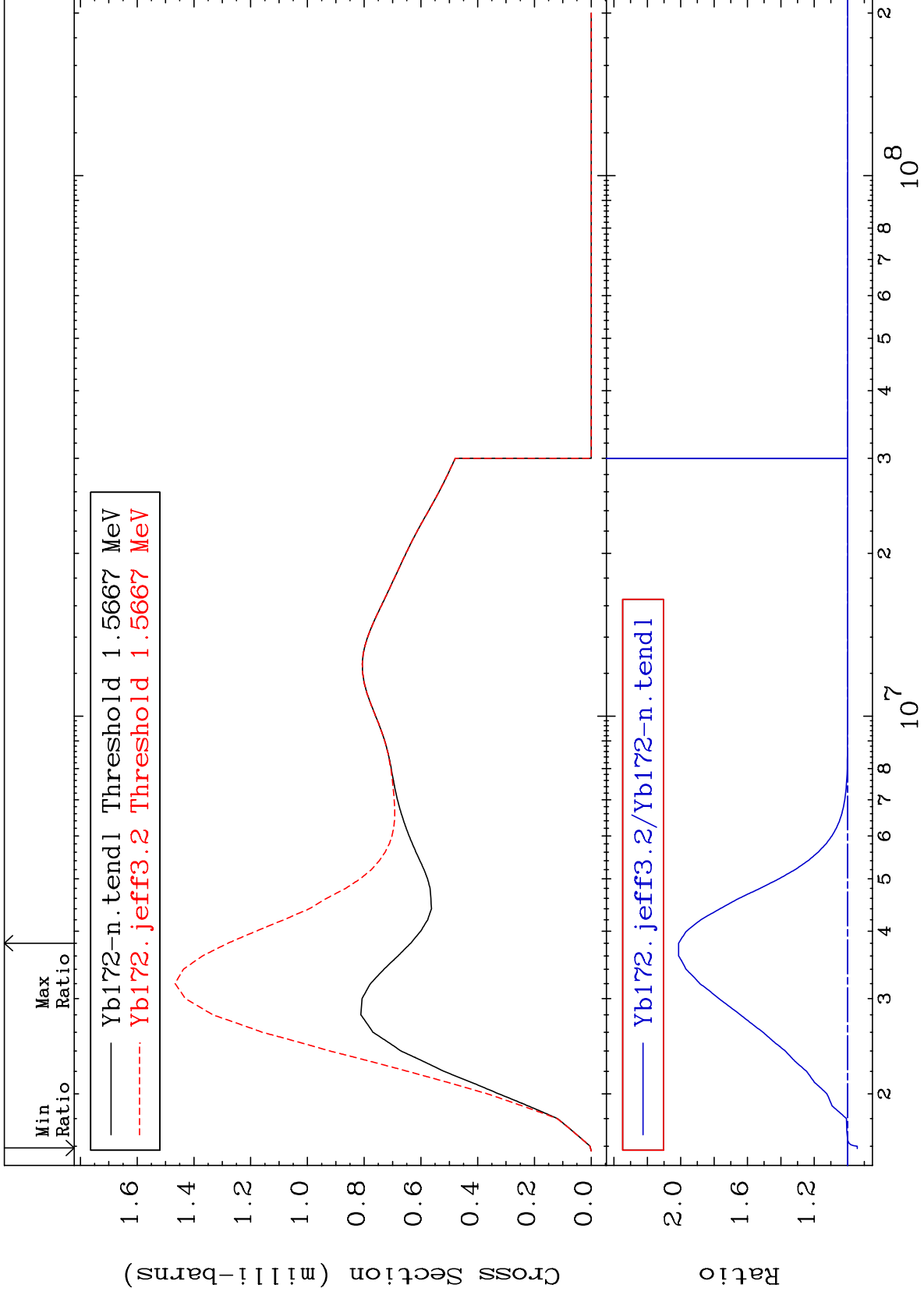
Cross Section



MAT 7037

1.558 MeV (n,n') Level  
Cross Section

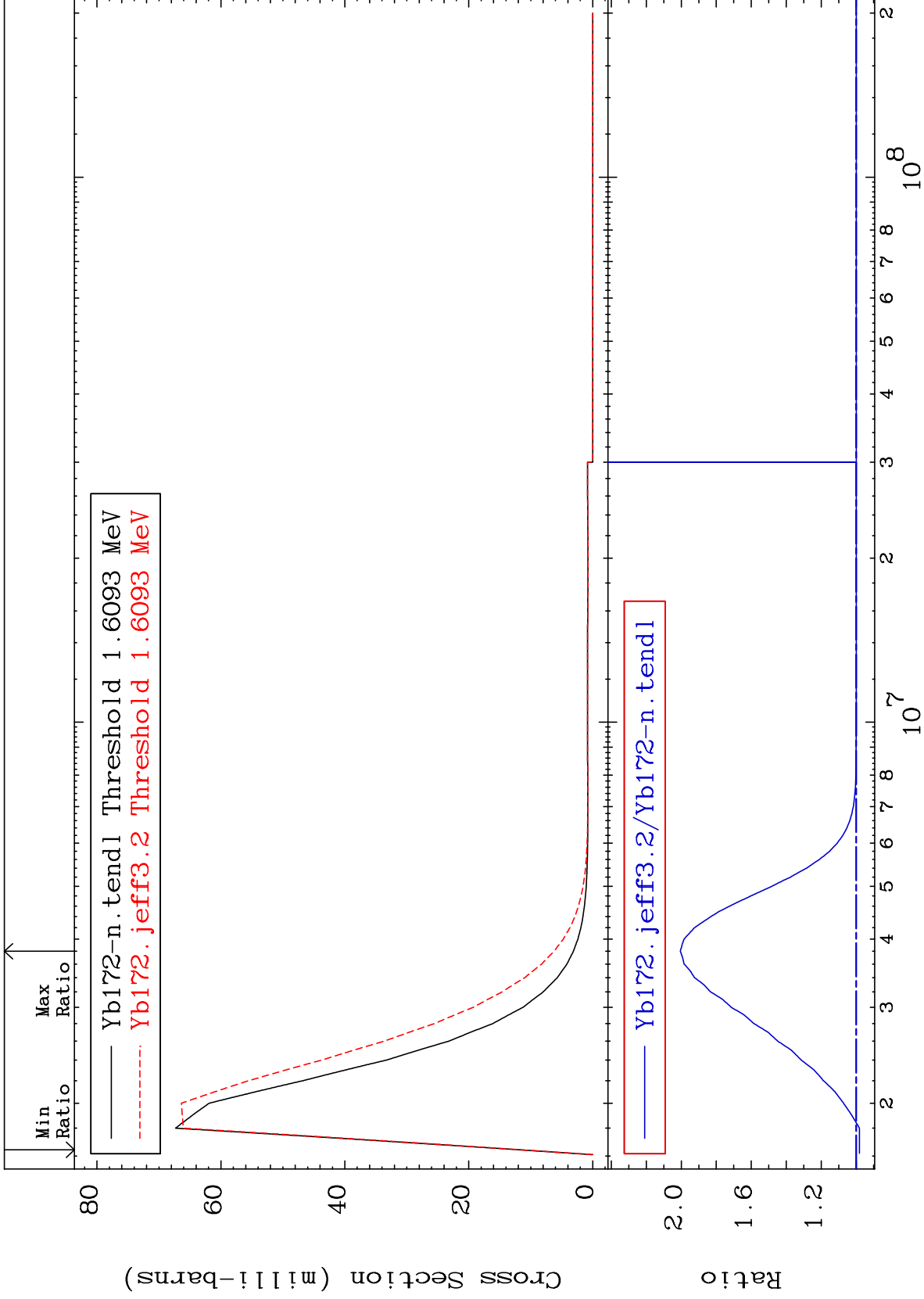
70-Yb-172  
-5.795 To 101.2 %



MAT 7037

1.600 MeV (n,n') Level  
Cross Section

70-Yb-172  
-1.843 To 100.5 %

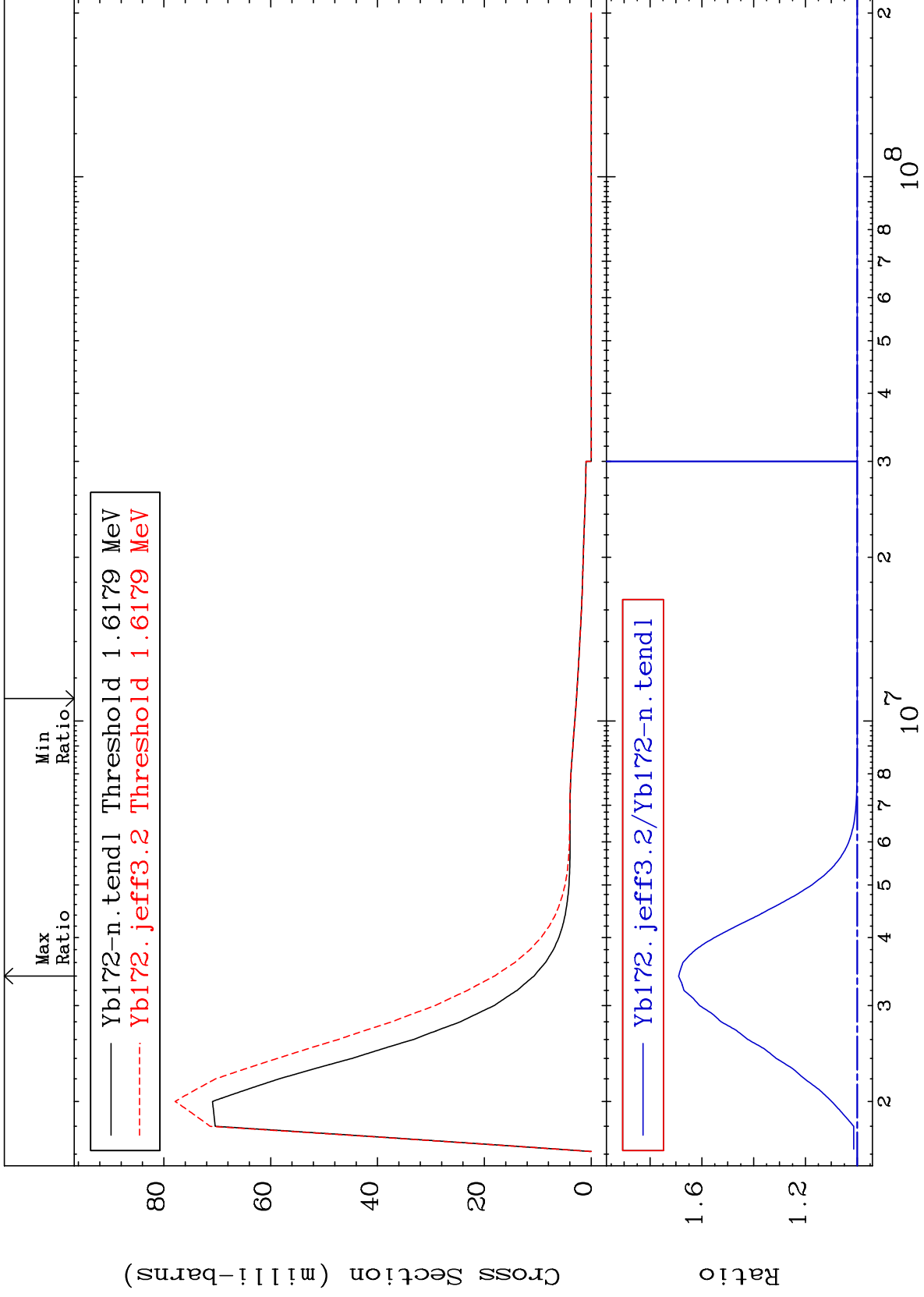




MAT 7037

1.608 MeV (n,n') Level  
Cross Section

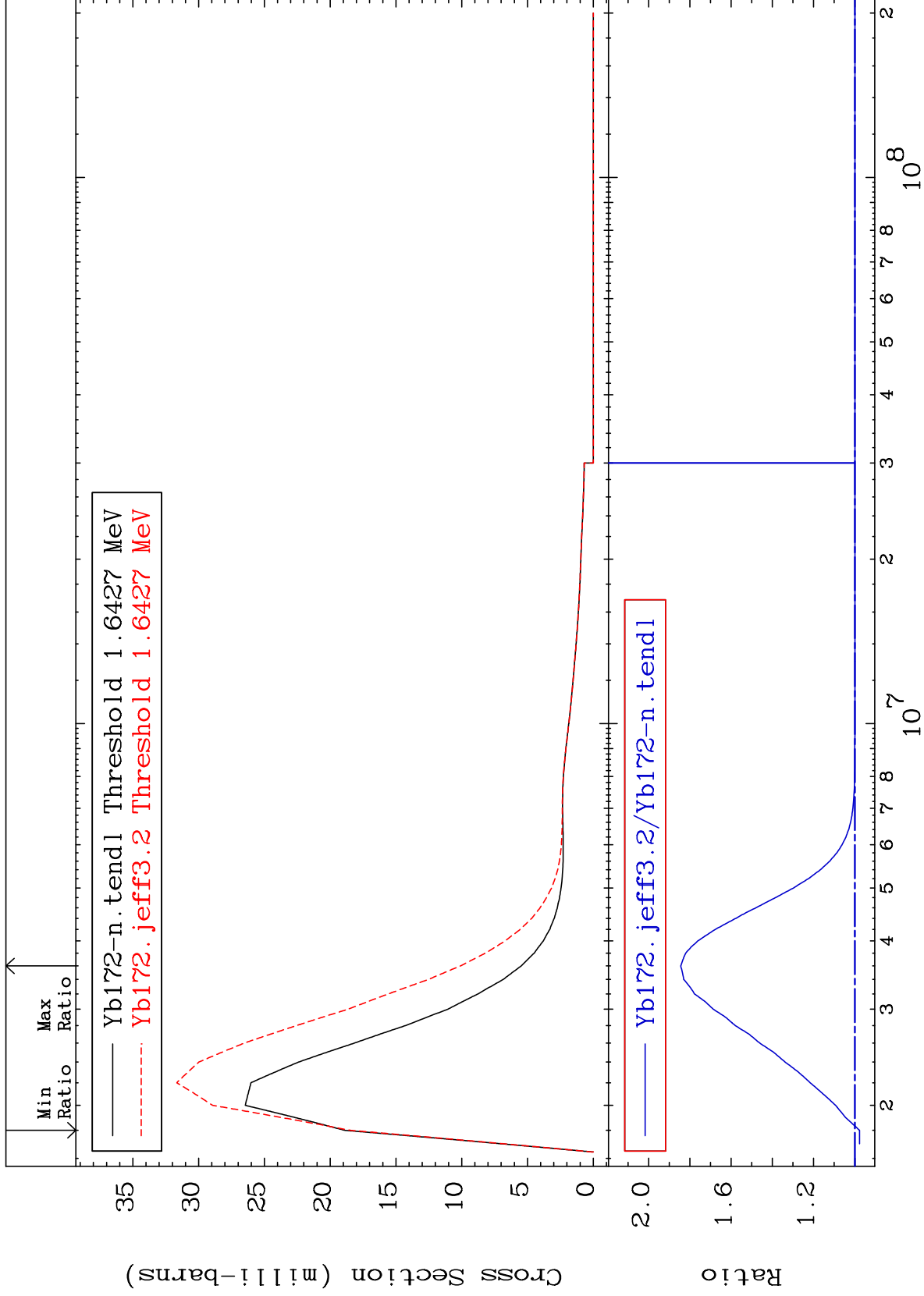
70-Yb-172  
-0.001 To 68.96 %



MAT 7037

1.633 MeV (n,n') Level  
Cross Section

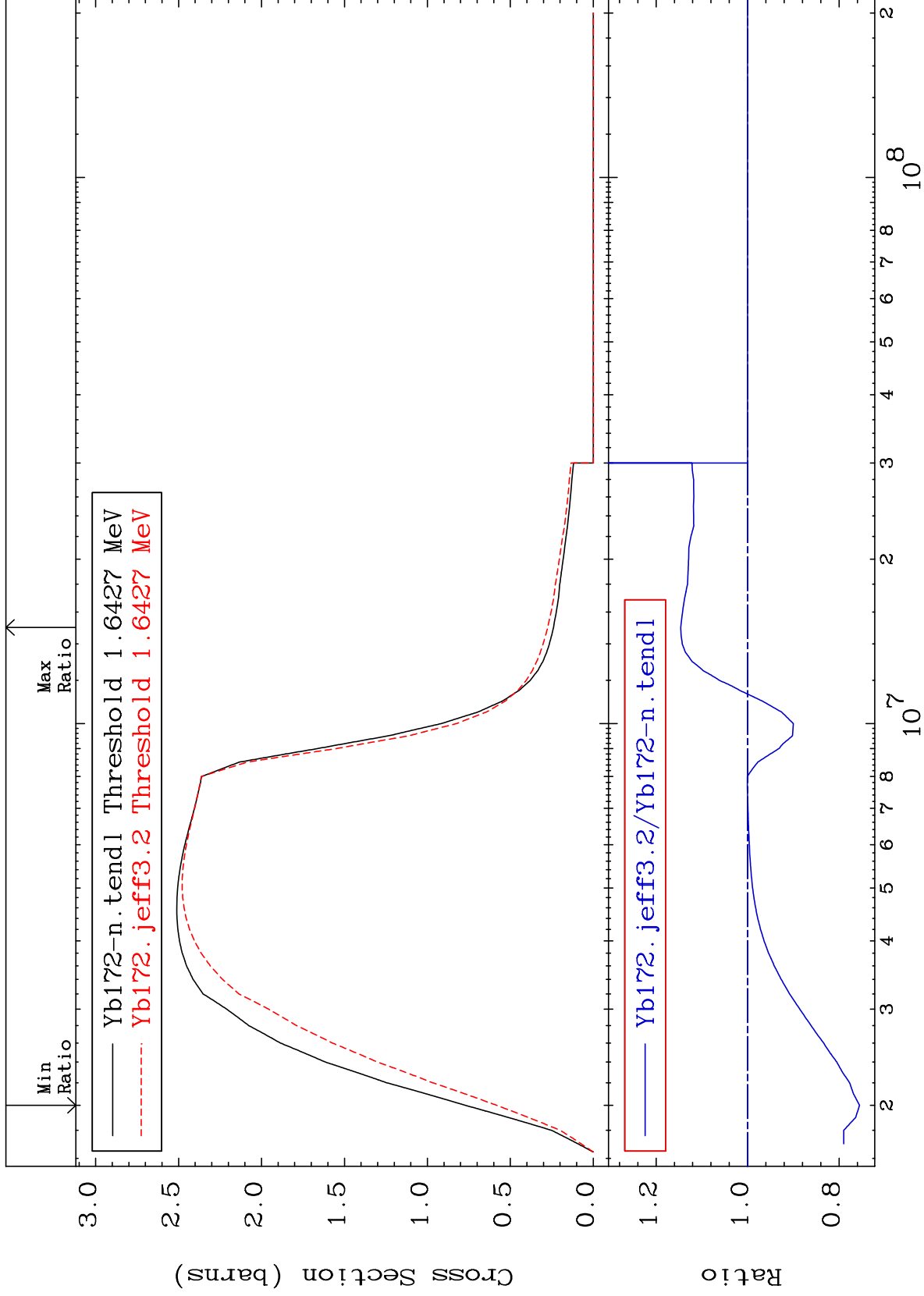
70-Yb-172  
-2.271 To 84.43 %



MAT 7037

(n, n') Continuum  
Cross Section

70-Yb-172  
-24.47 To 14.60 %

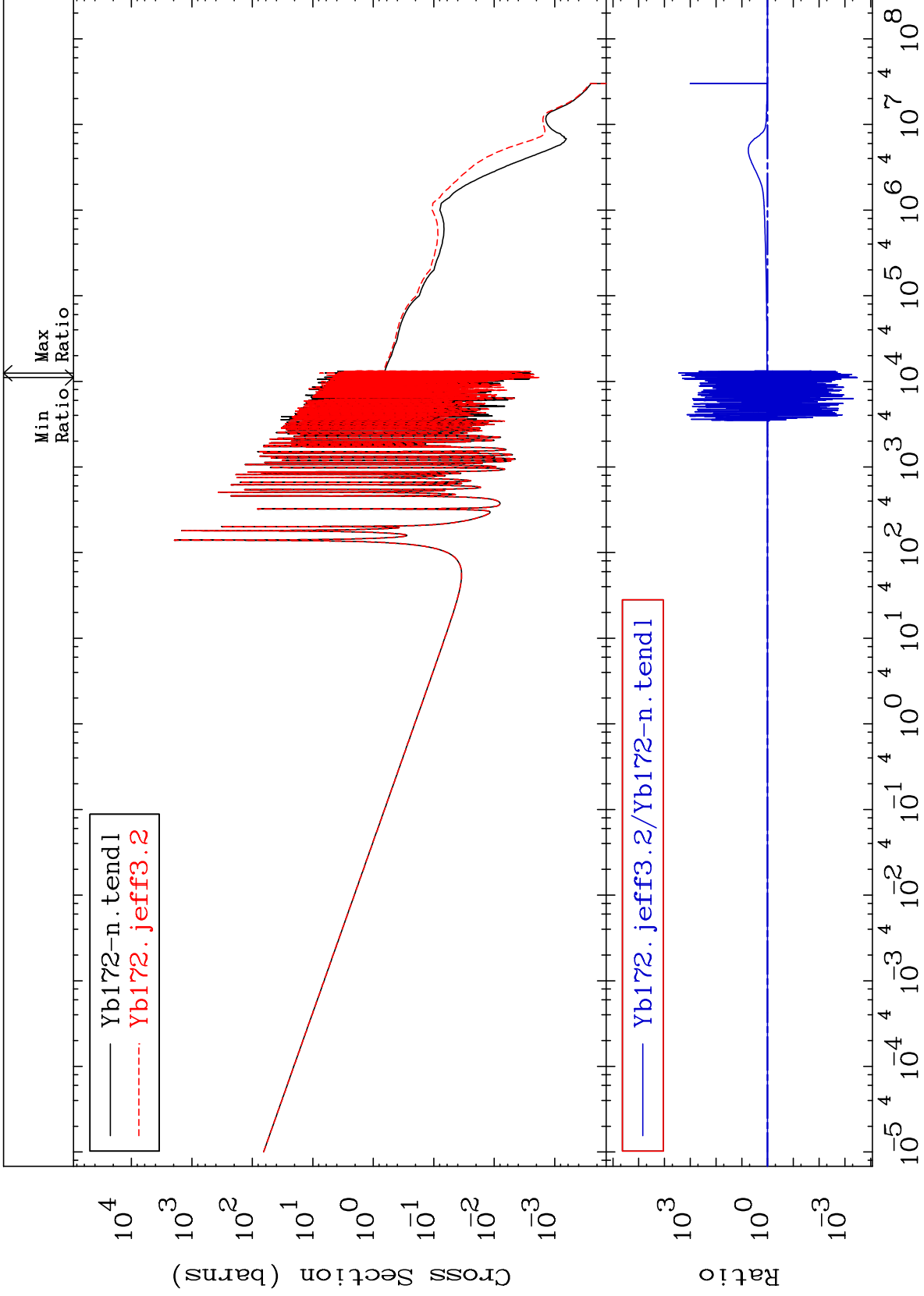


MAT 7037

(n,  $\gamma$ )

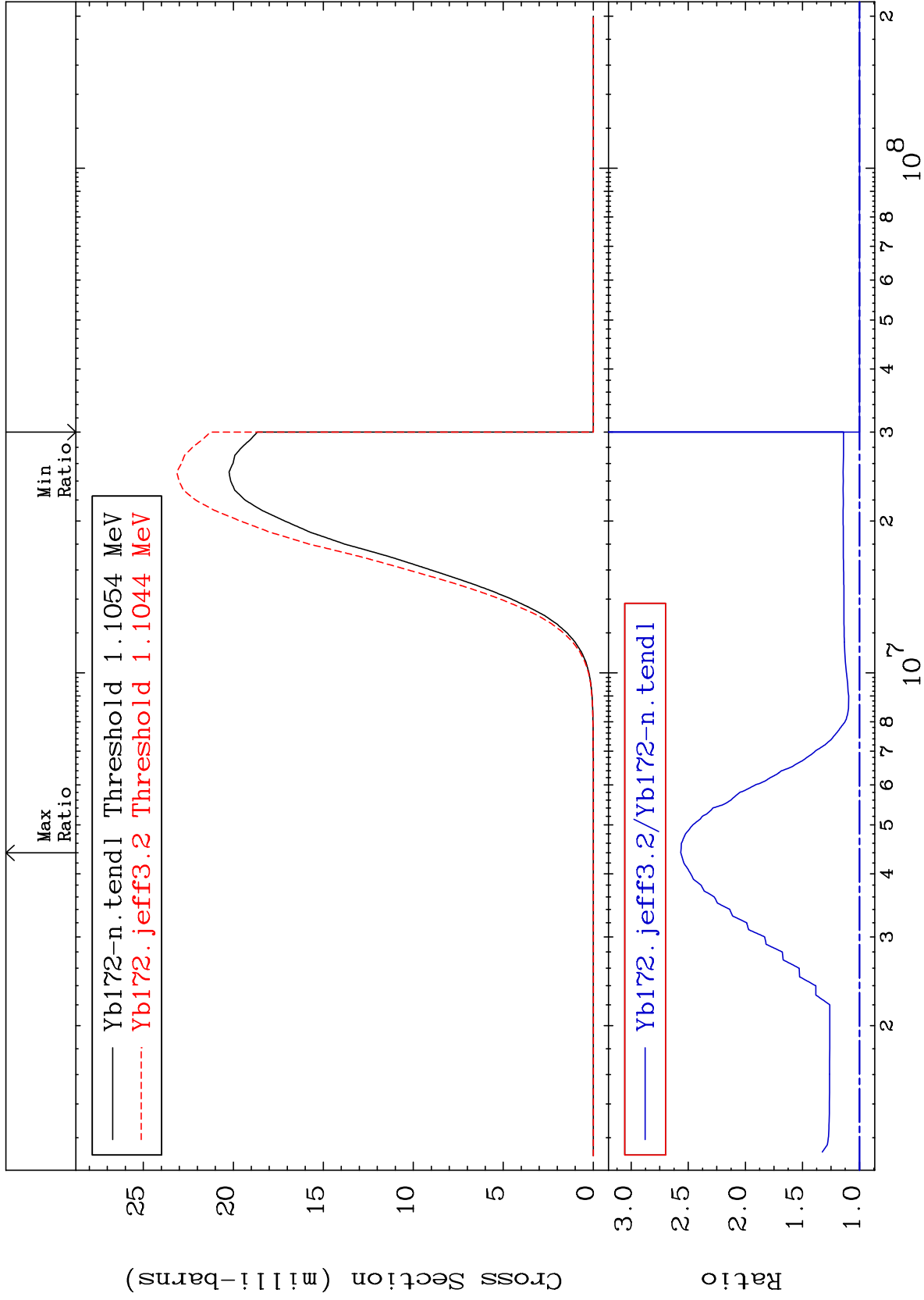
70-Yb-172  
-99.97 To 9999. %

Cross Section



MAT 7037

(n,p)  
Cross Section  
70-Yb-172  
To 156.6 %  
0.000



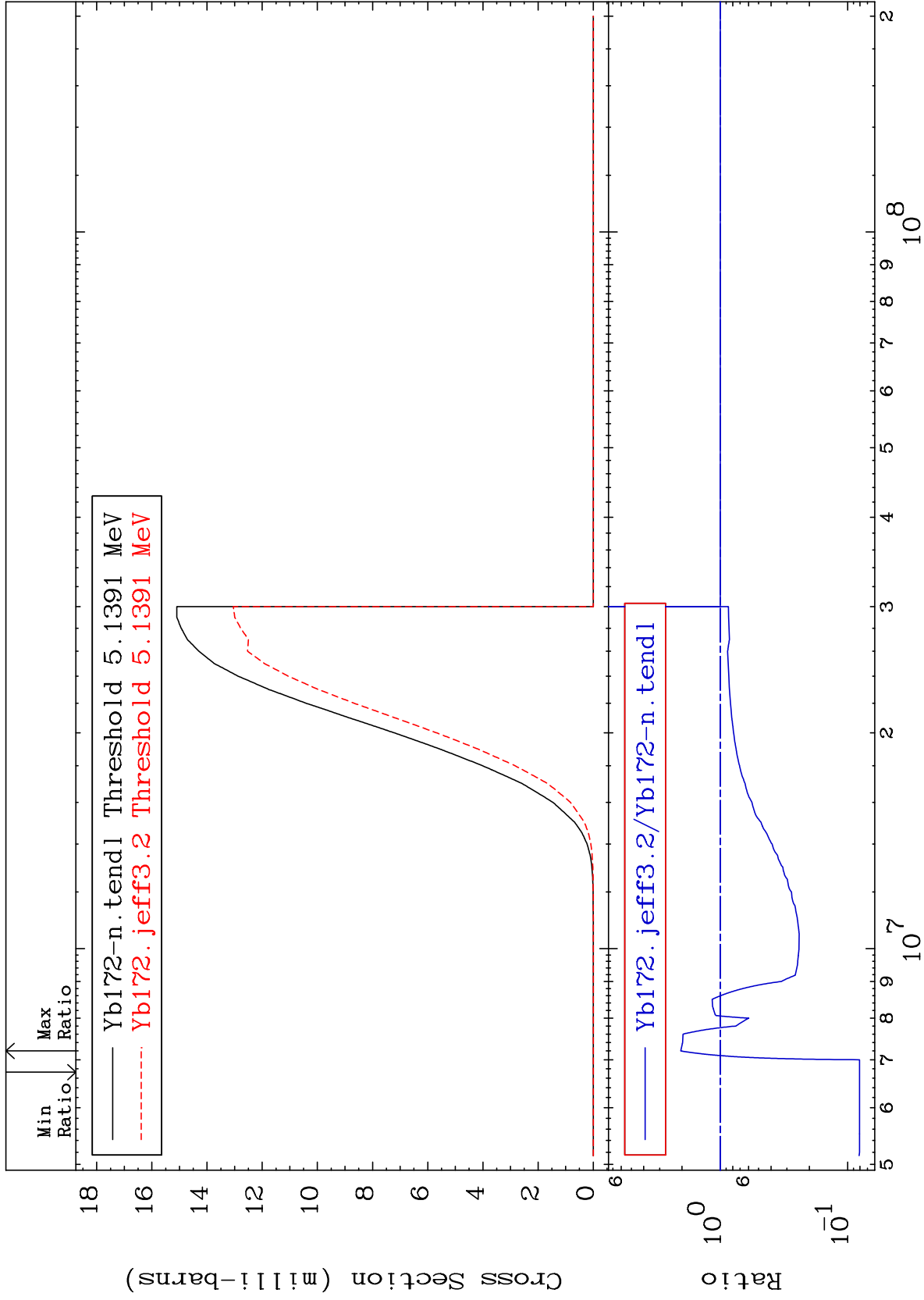
MAT 7037

(n, d)

70-Yb-172

Cross Section

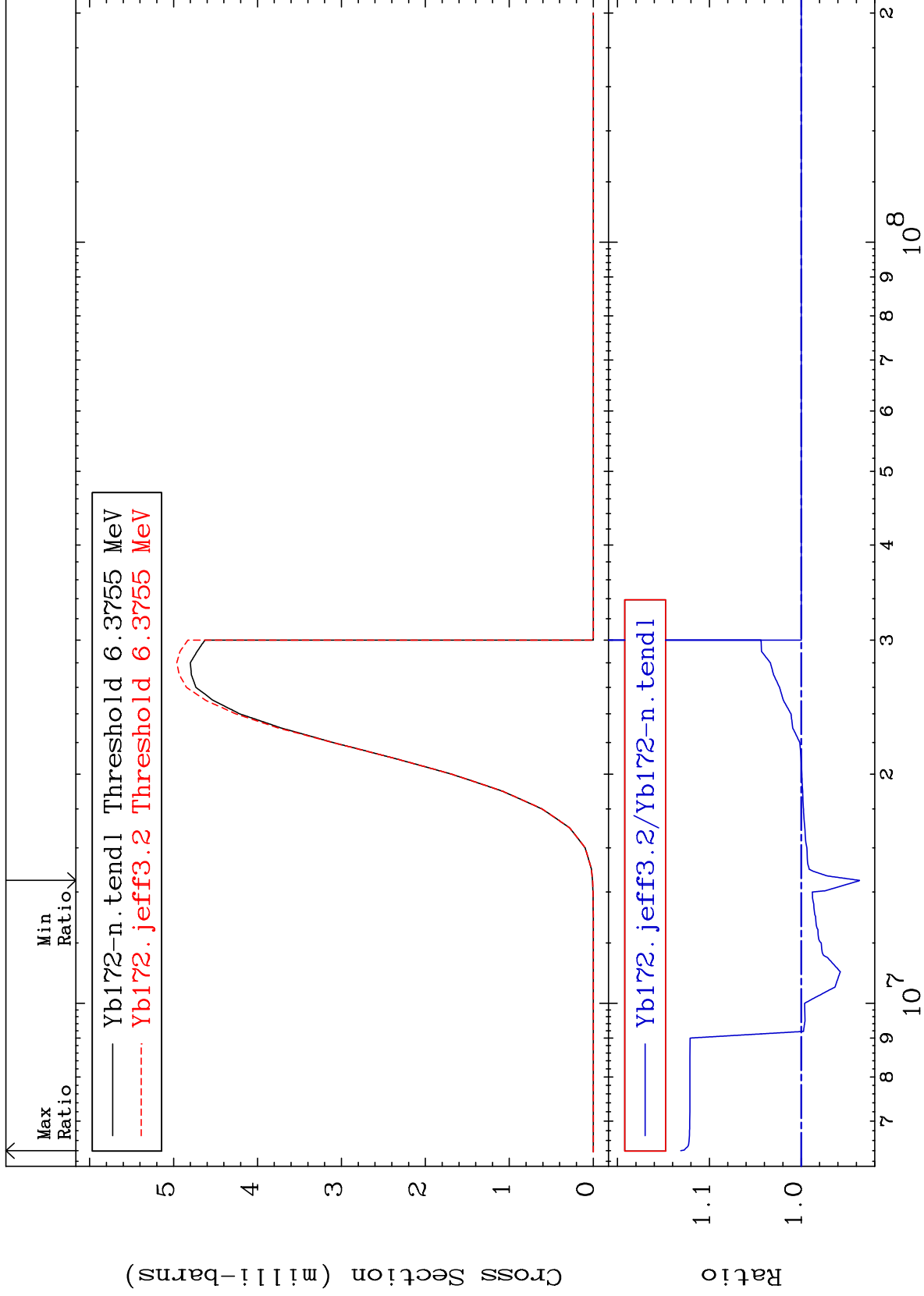
-91.93 To 104.6 %



MAT 7037

(n, t)  
Cross Section

70-Yb-172  
-6.348 To 13.12 %



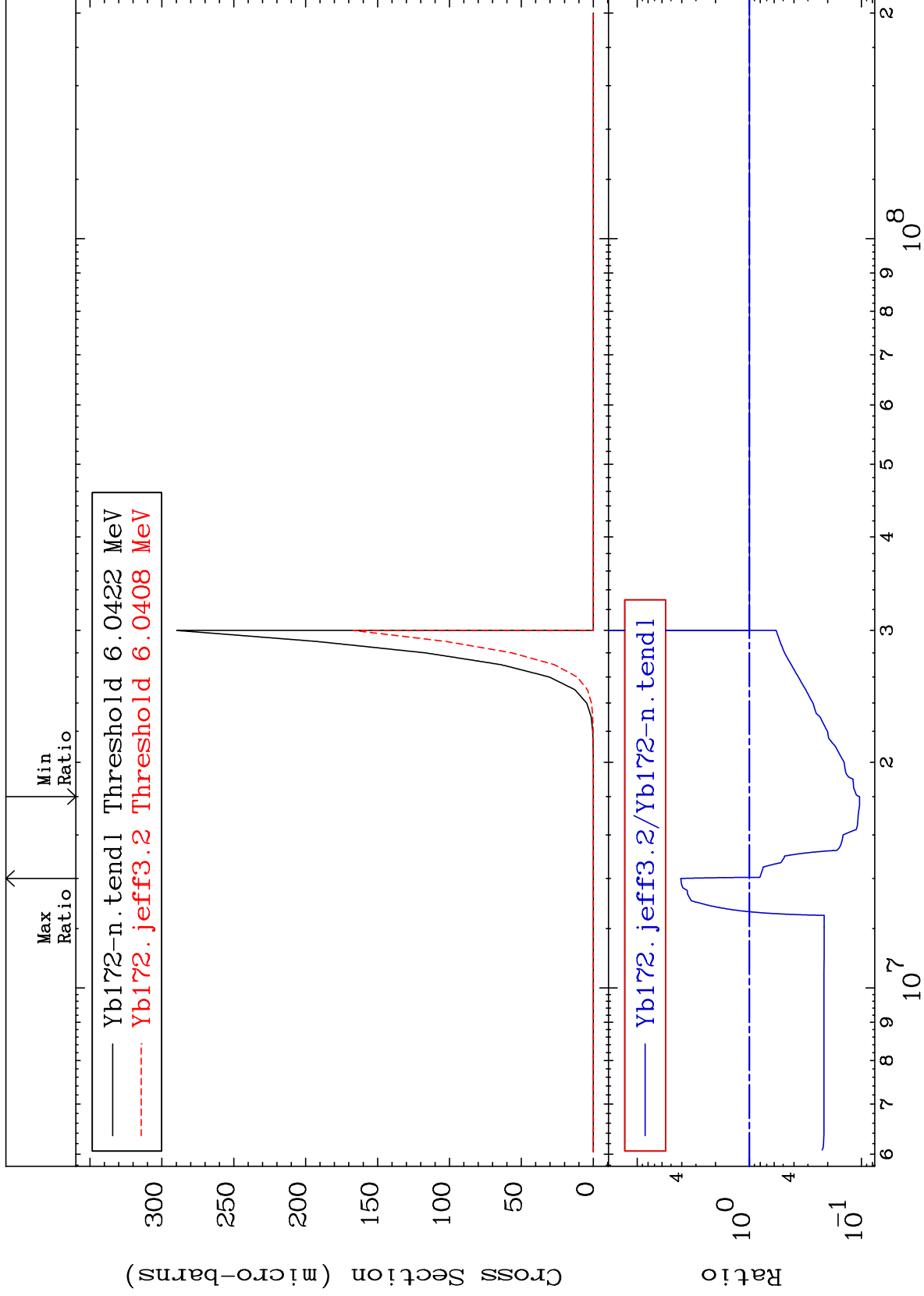
MAT 7037

(n, He-3)

70-Yb-172

Cross Section

-89.59 To 308.7 %



56

70-Yb-172

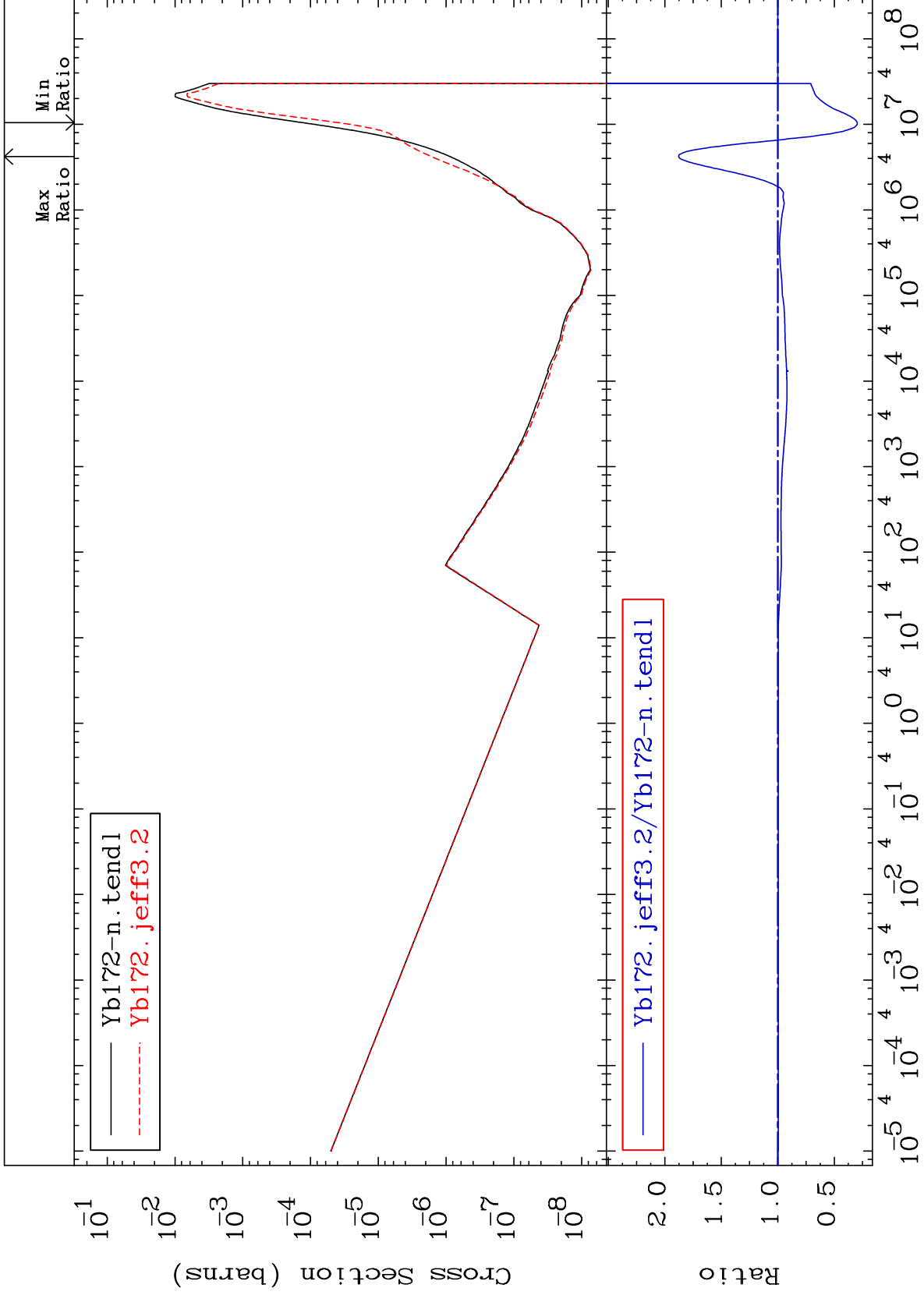
70-Yb-172

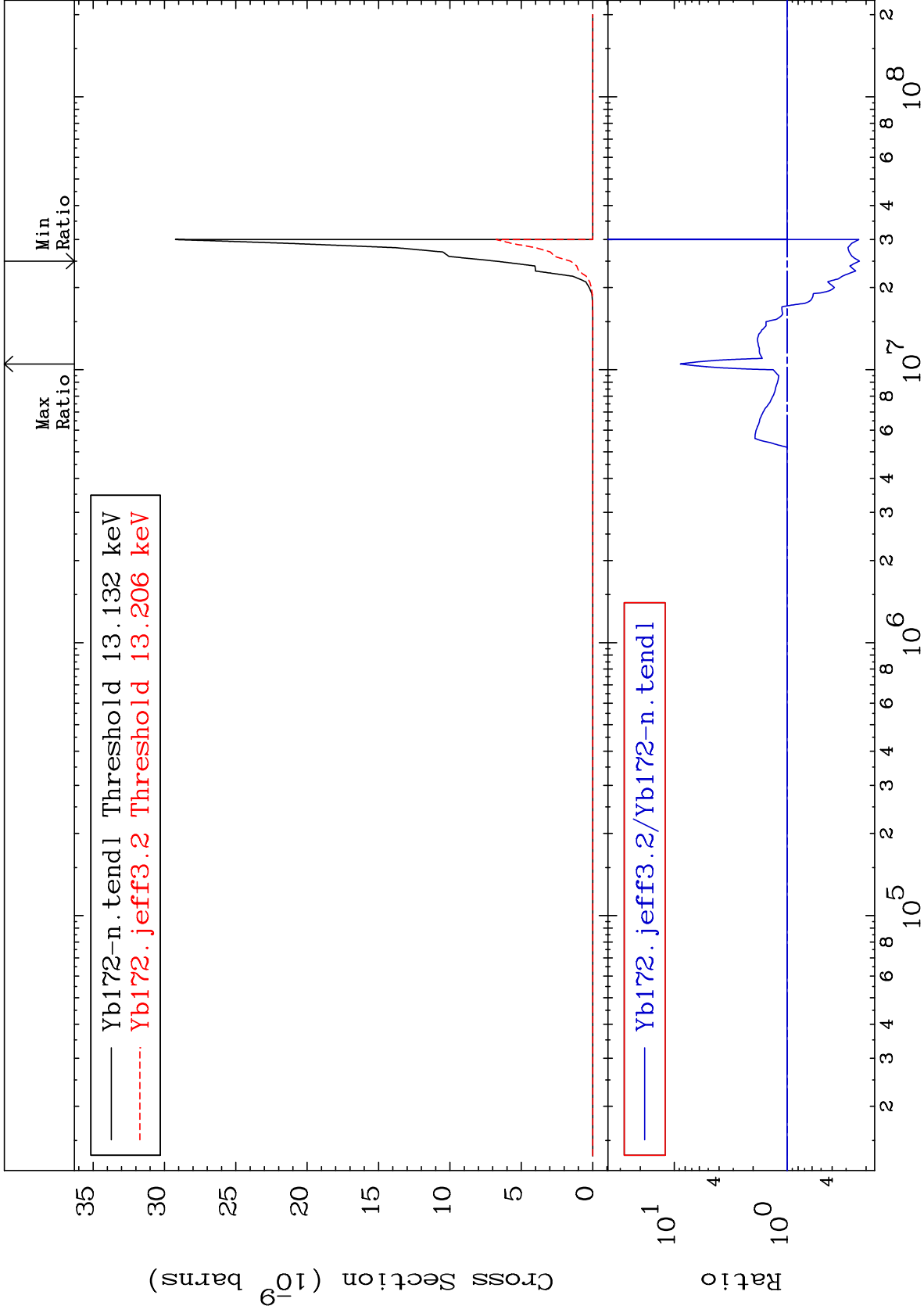


MAT 7037

(n,  $\alpha$ )  
Cross Section

70-Yb-172  
-70.35 To 87.79 %

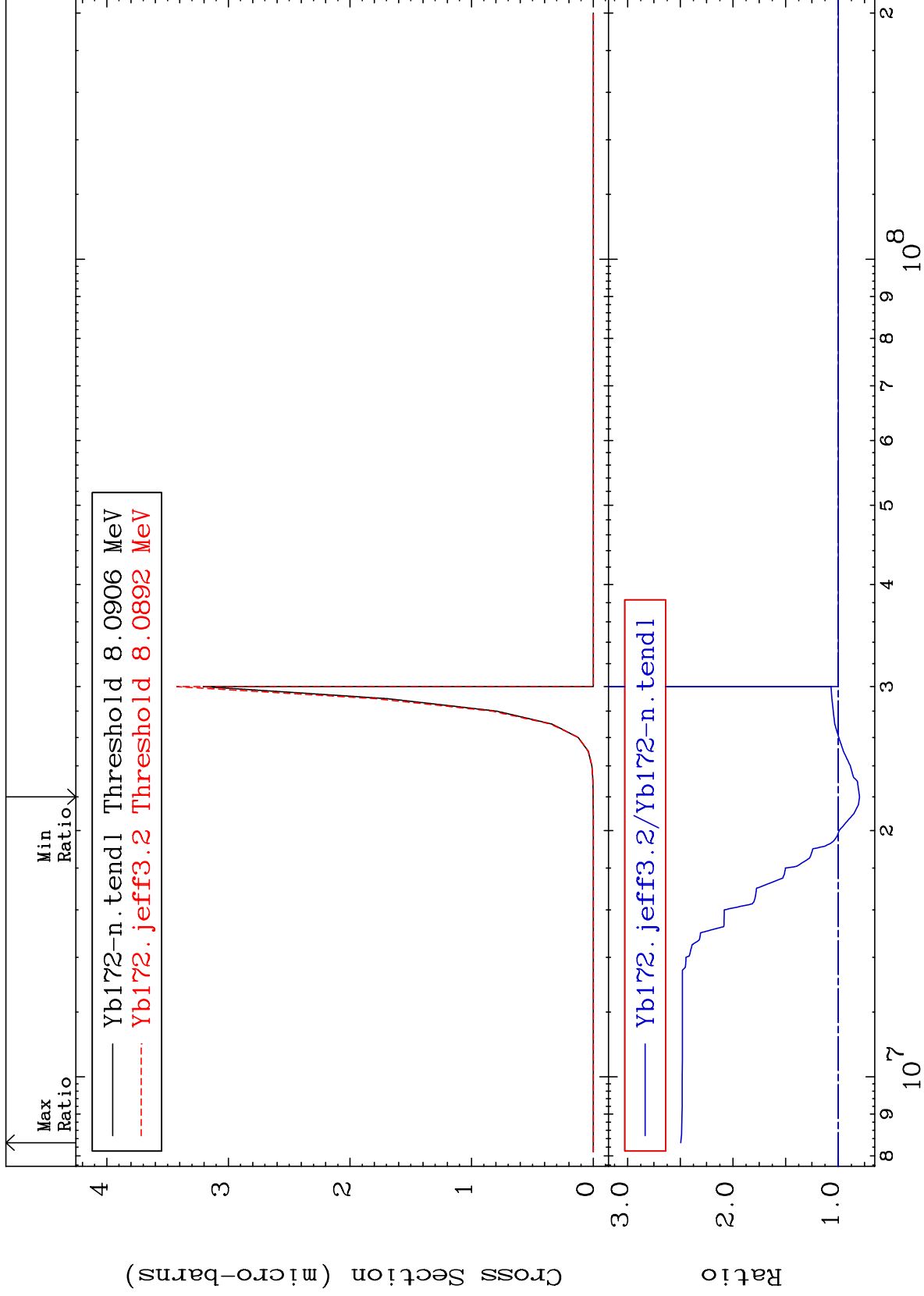




MAT 7037

(n,2p)  
Cross Section

70-Yb-172  
-20.25 To 149.5 %



59

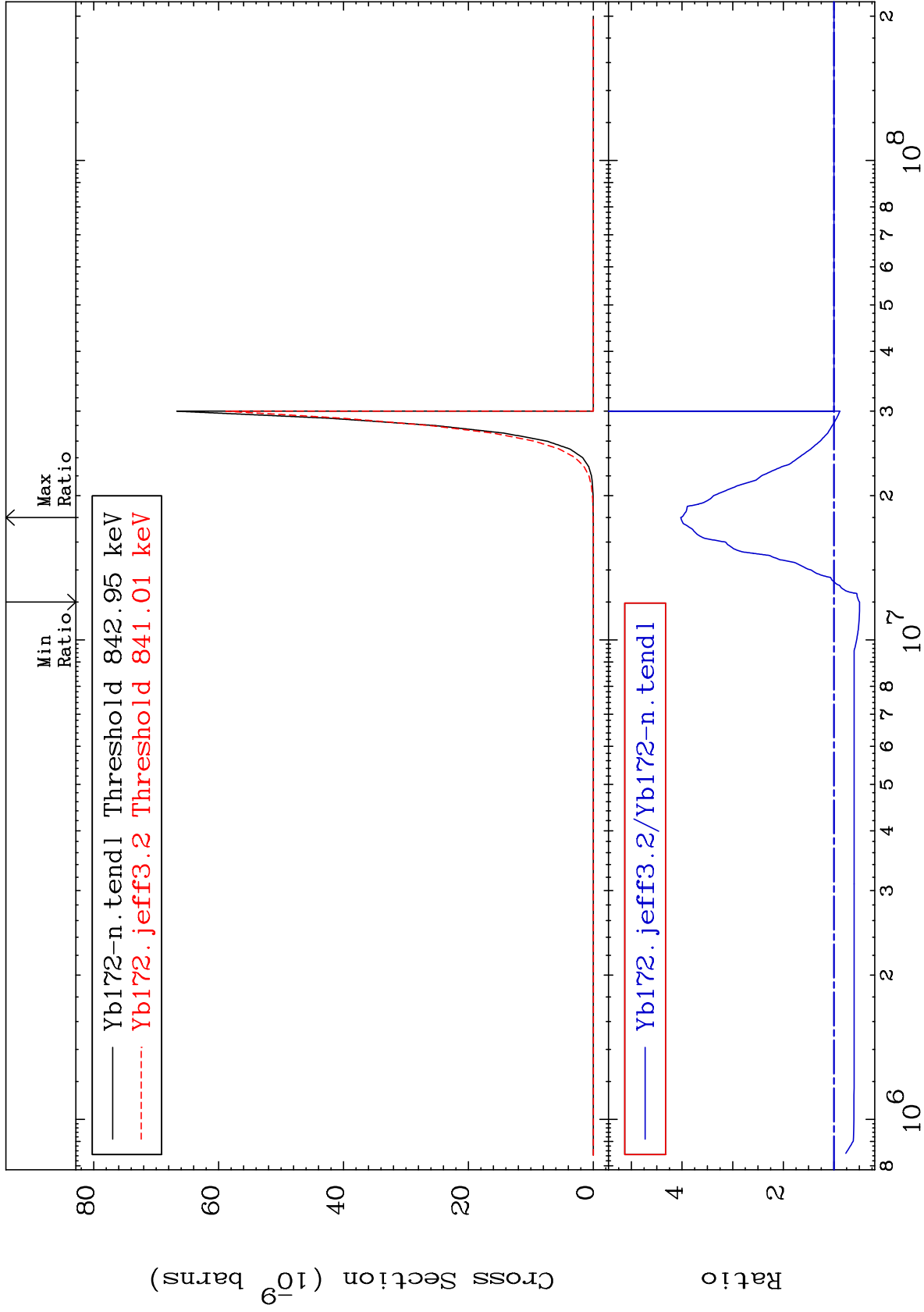
70-Yb-172

MAT 7037

<sup>70</sup>Yb-172

(n, p)  $\alpha$

-50.54 To 302.6 %



<sup>70</sup>Yb-172

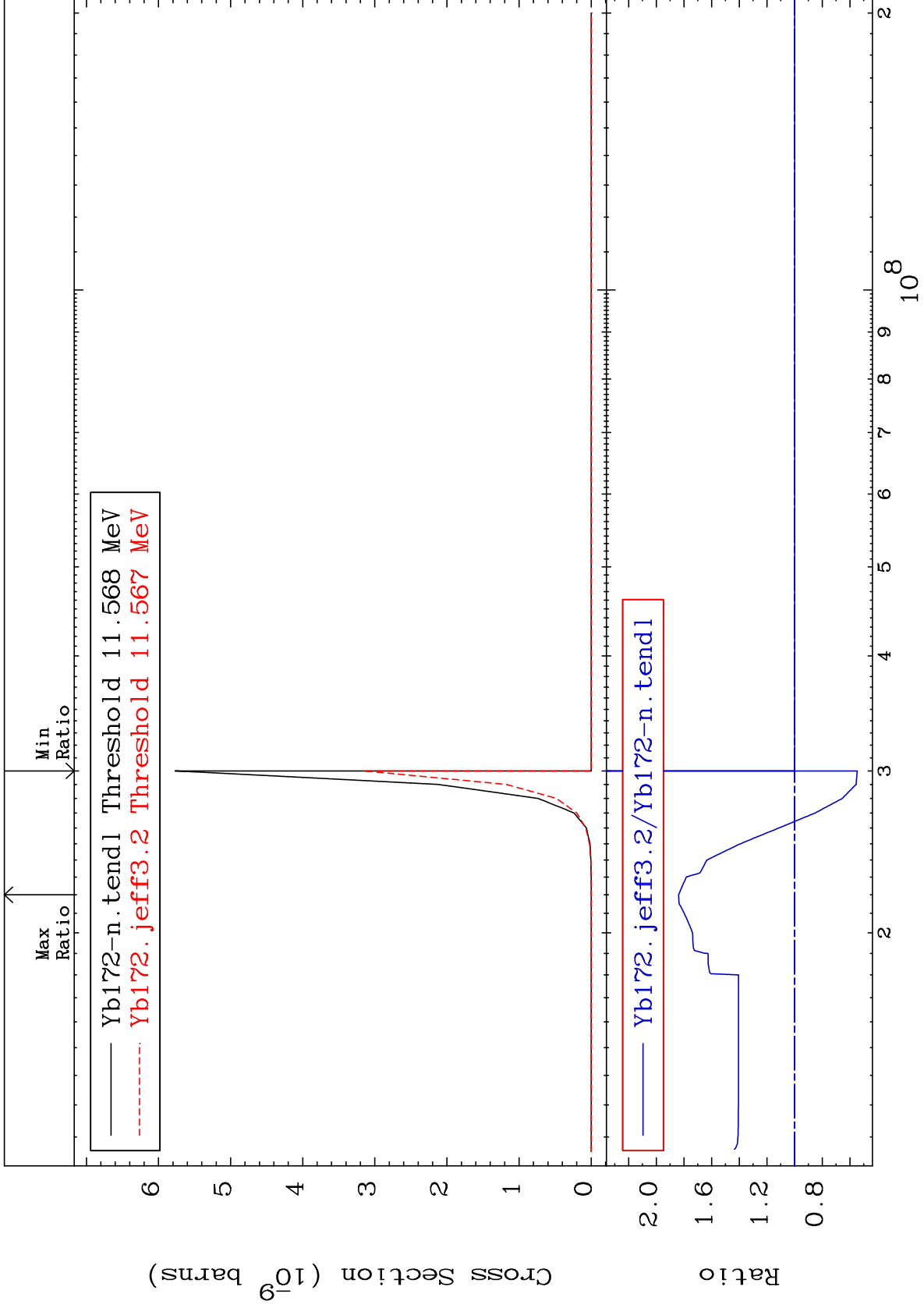
Incident Energy (eV)

60

MAT 7037

(n, p) d  
Cross Section

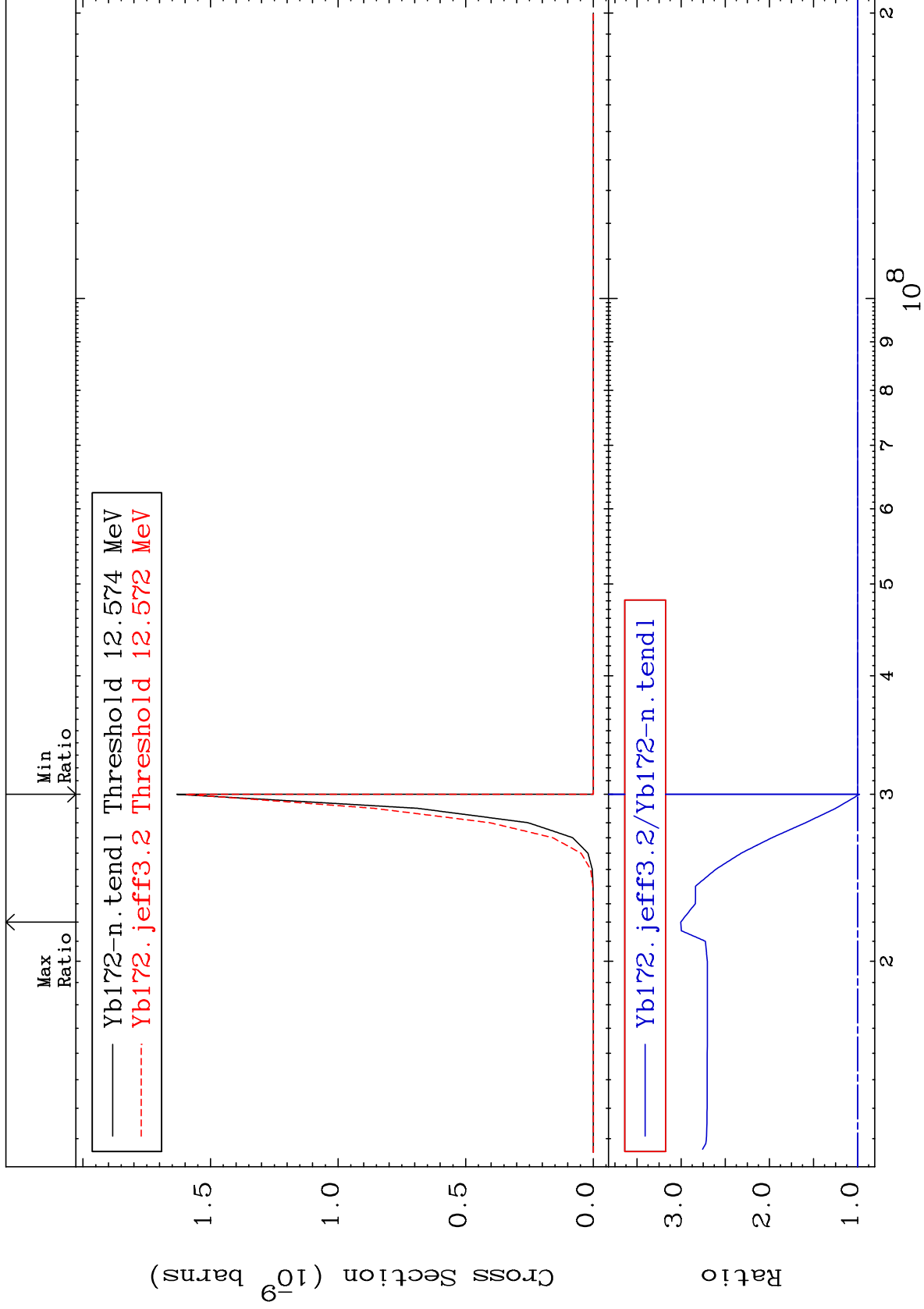
70-Yb-172  
-45.33 To 83.82 %



MAT 7037

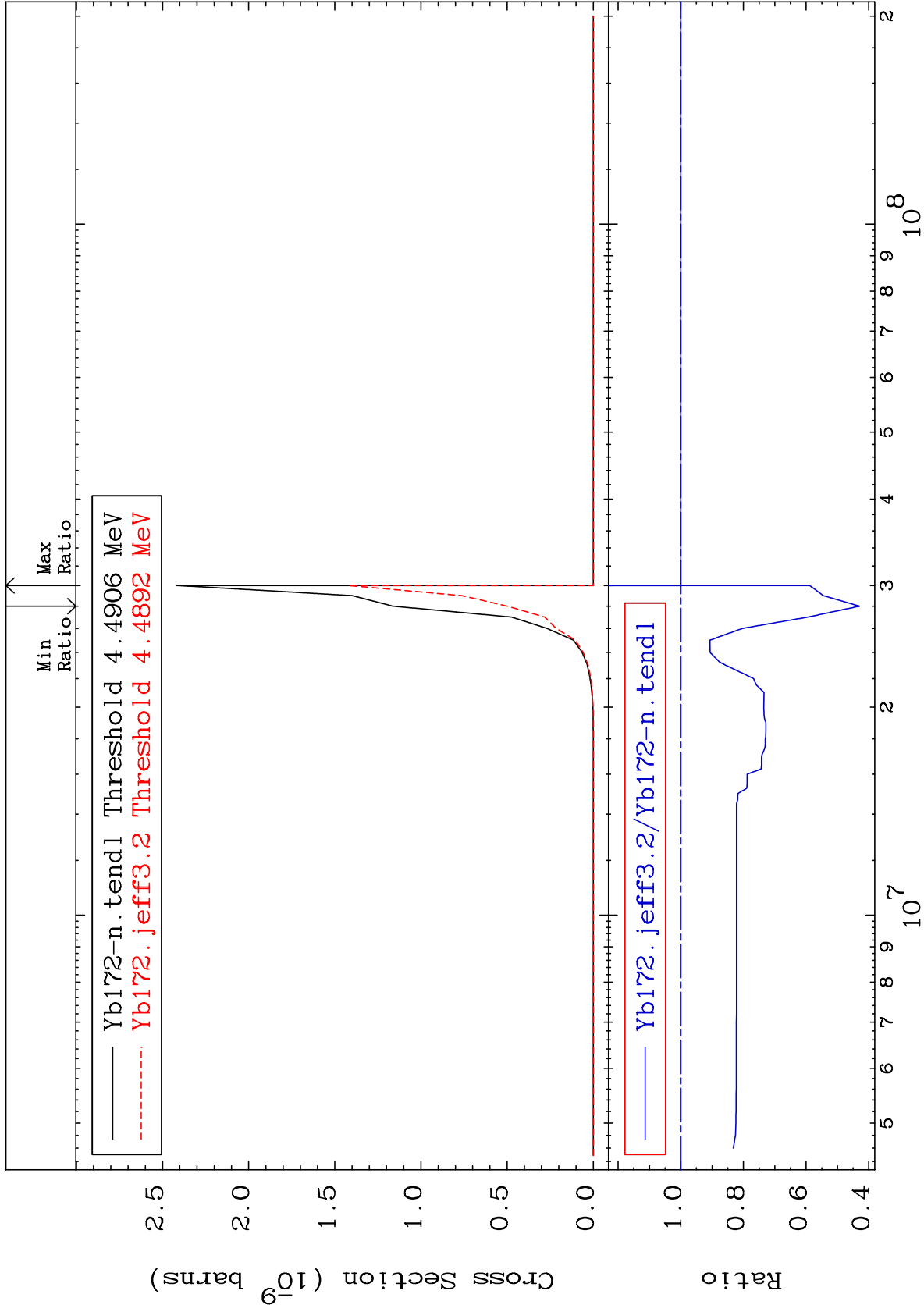
(n, p) t  
Cross Section

<sup>70</sup>Yb-172  
-2.035 To 200.5 %



MAT 7037

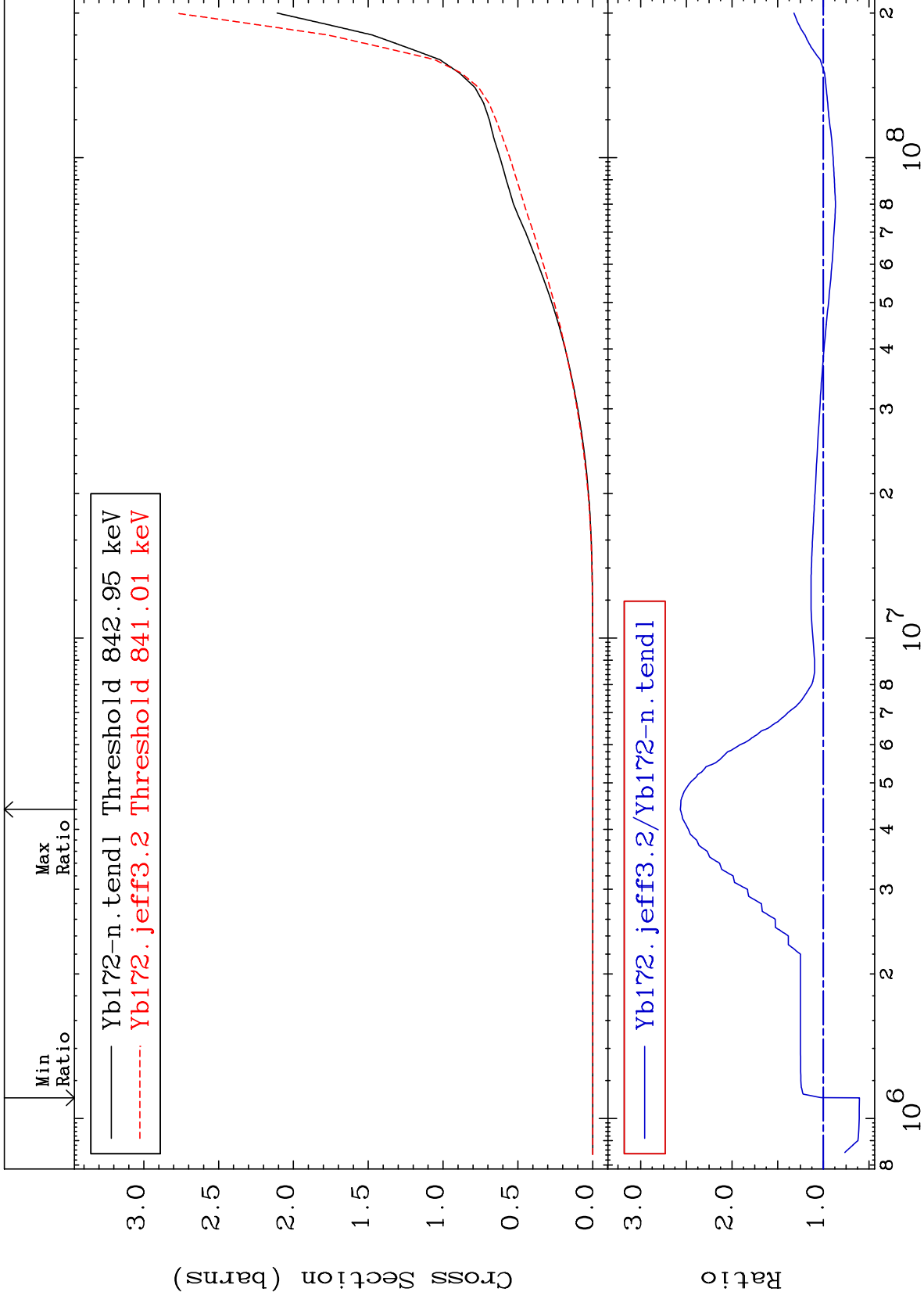
(n, d)  $\alpha$   
Cross Section  
70-Yb-172  
-57.05 To 0.000 %



MAT 7037

Hydrogen Production  
Cross Section

70-Yb-172  
-39.57 To 156.6 %



64

Incident Energy (eV)

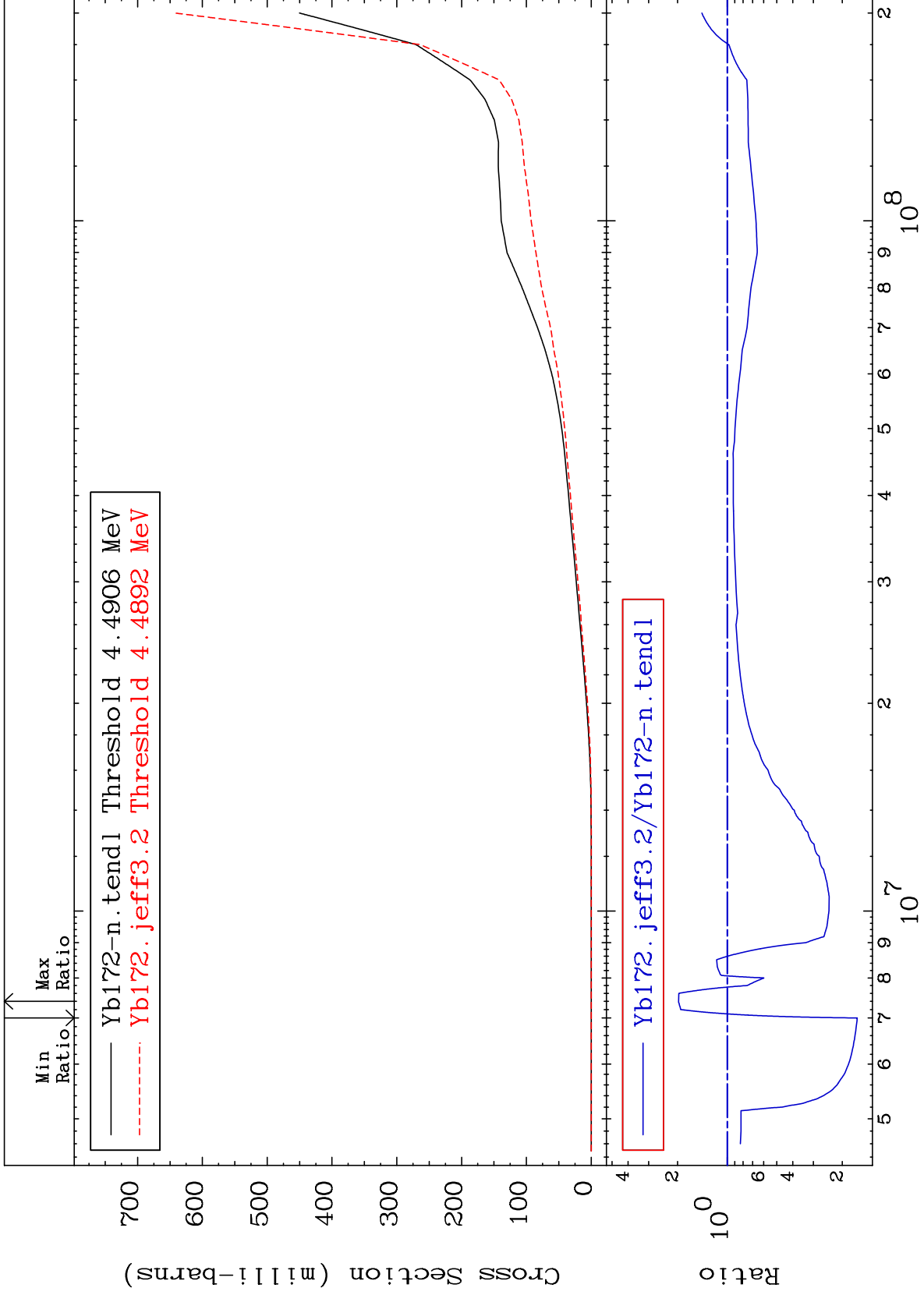
70-Yb-172



MAT 7037

Deuterium Production  
Cross Section

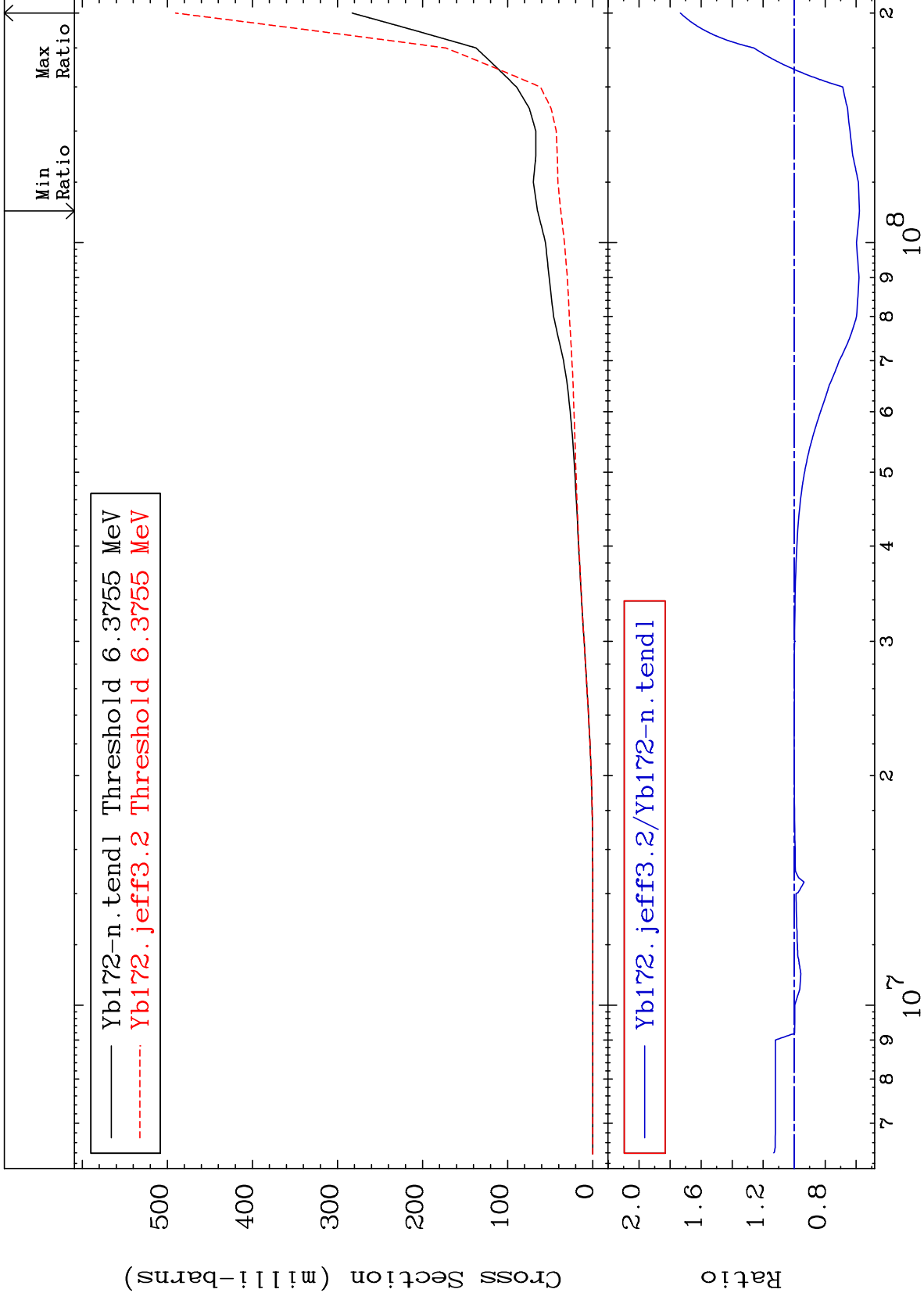
<sup>70</sup>Yb-172  
-83.76 To 97.11 %



MAT 7037

Tritium Production  
Cross Section

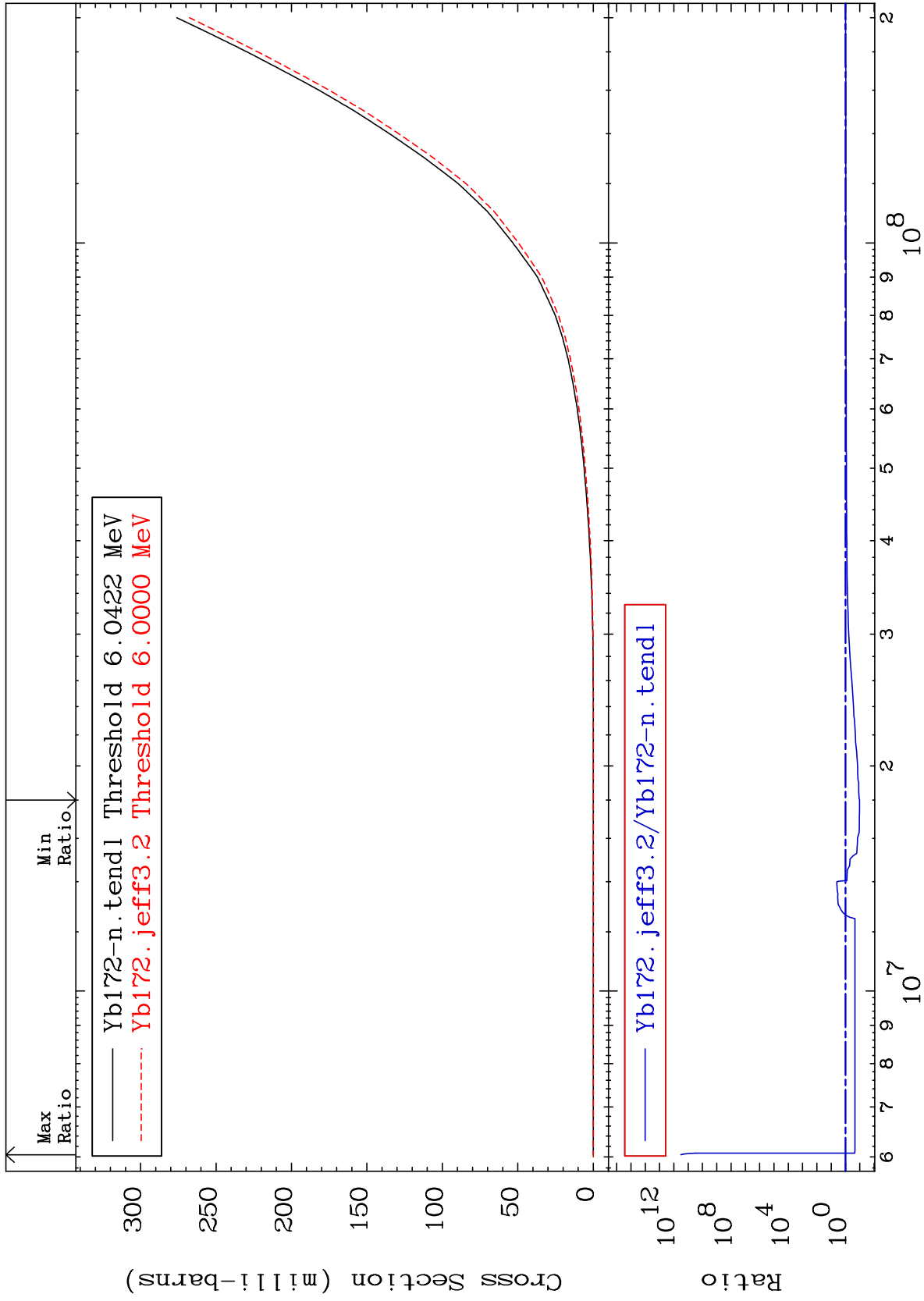
70-Yb-172  
-42.09 To 73.39 %



MAT 7037

He-3 Production  
Cross Section

<sup>70</sup>Yb-172  
-89.59 To 9999. %



67

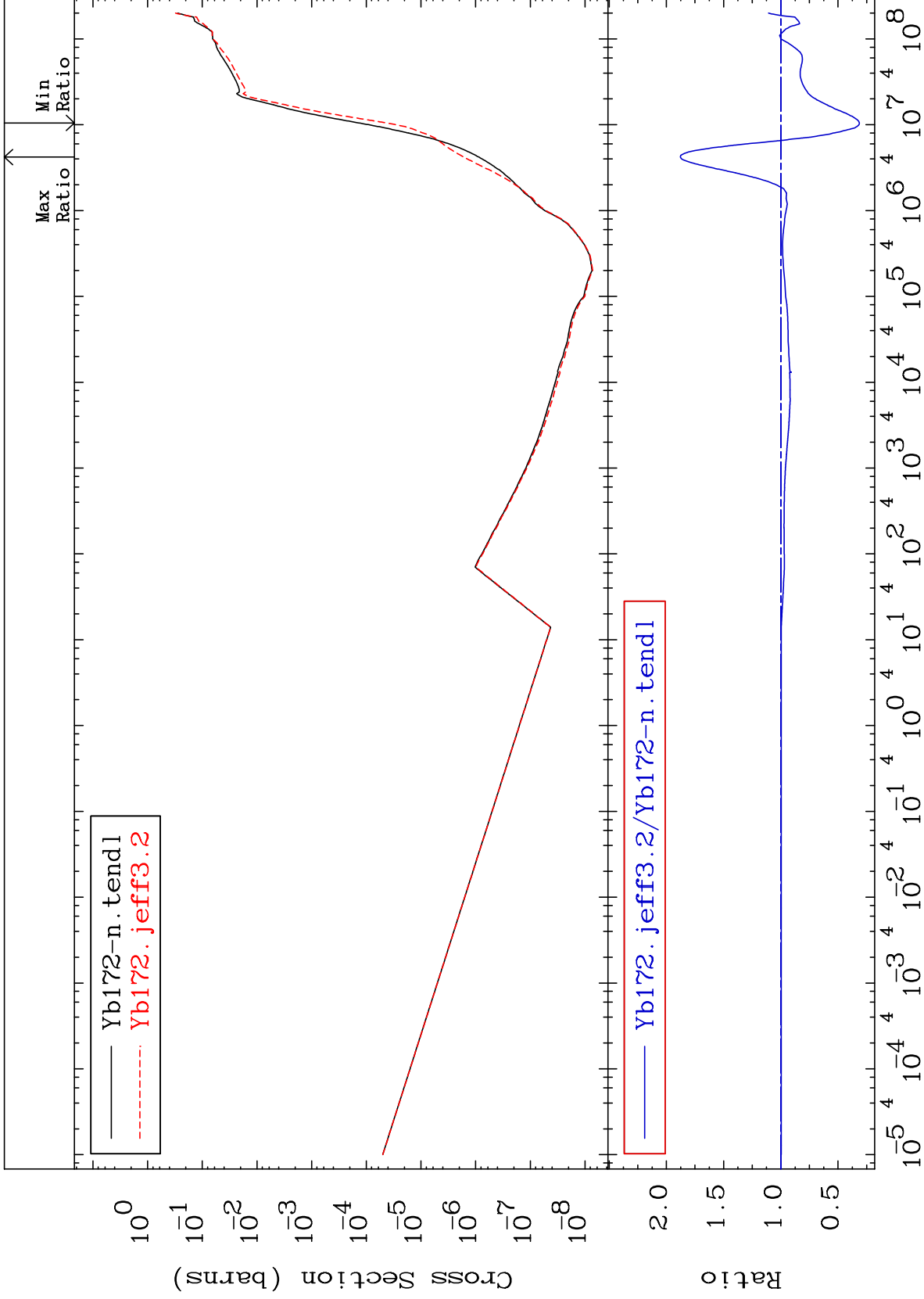
Incident Energy (eV)

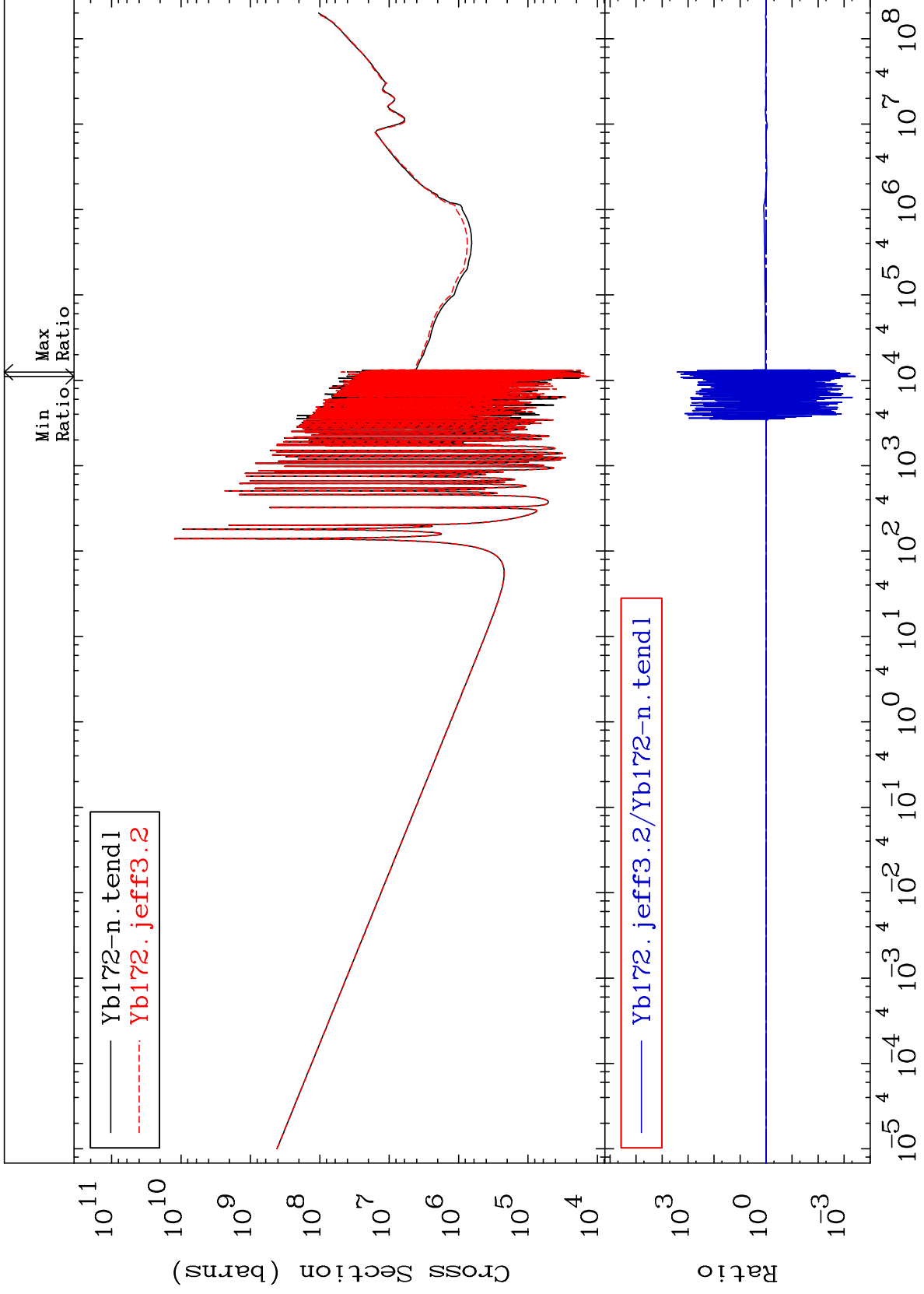
<sup>70</sup>Yb-172

MAT 7037

He-4 Production  
Cross Section

70-Yb-172  
-68.70 To 87.79 %

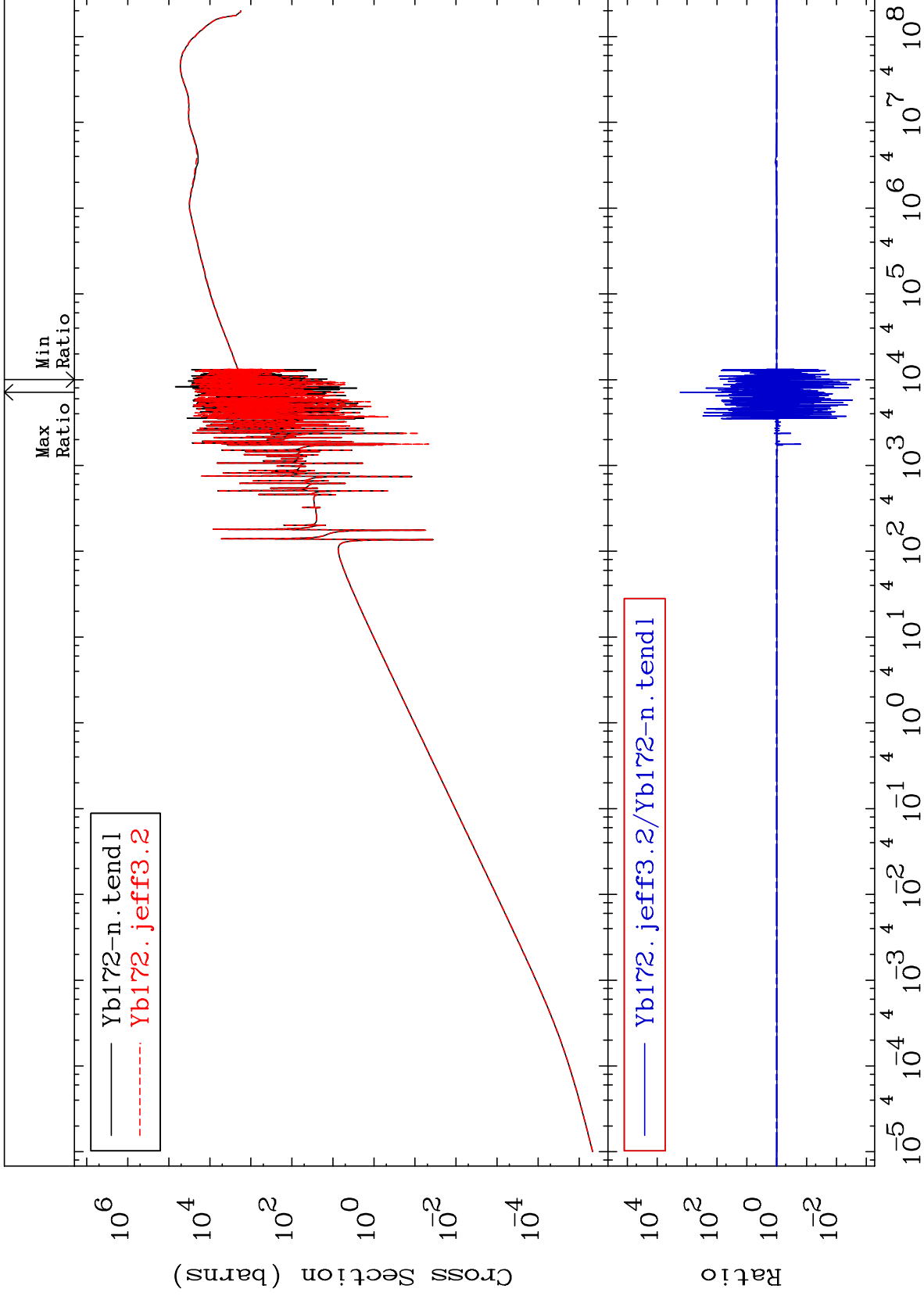




MAT 7037

Kerma elastic  
Cross Section

70-Yb-172  
-99.83 To 9999. %



70

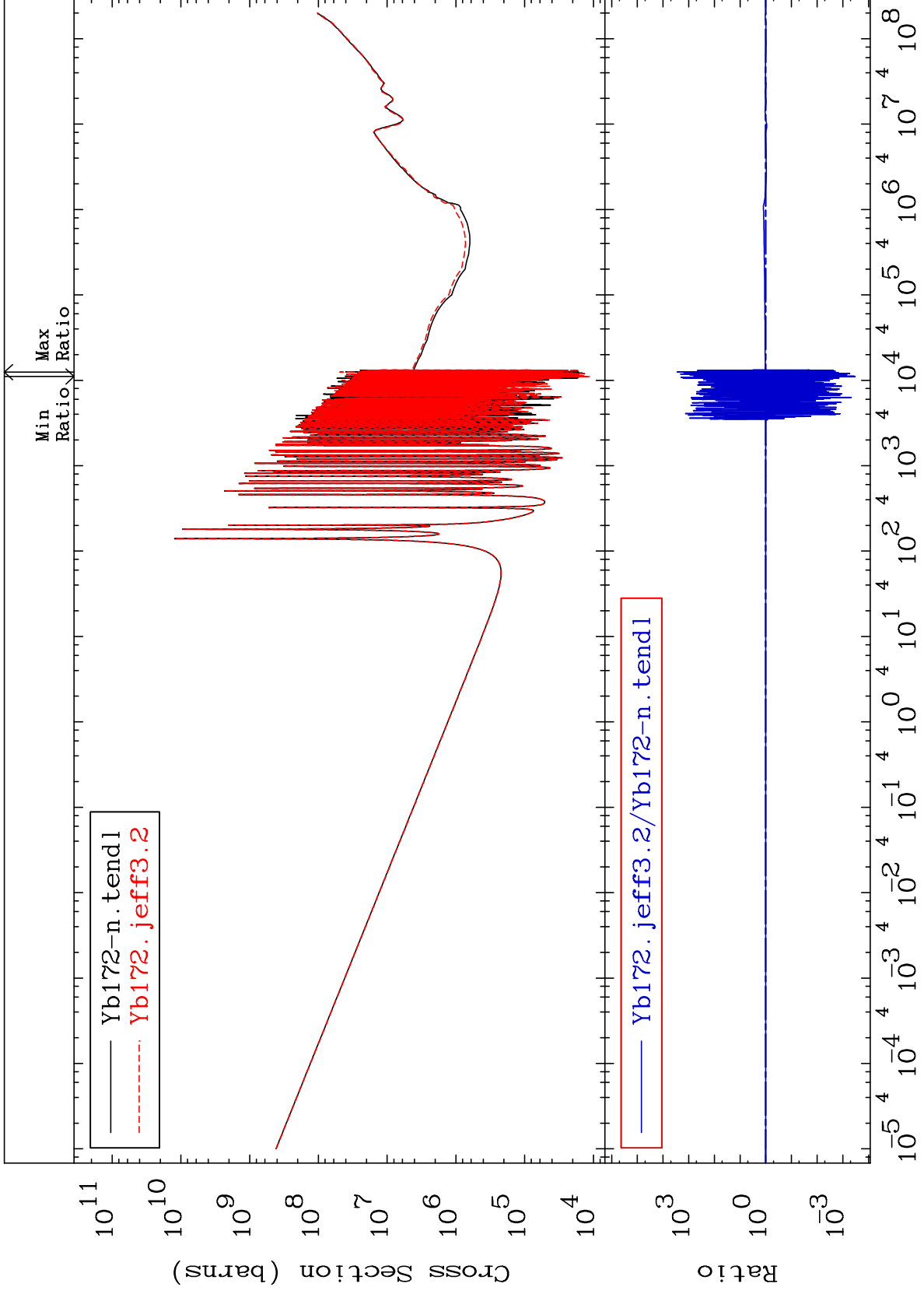
Incident Energy (eV)

70-Yb-172

MAT 7037

Kerma non-elastic (all but mt2)  
Cross Section

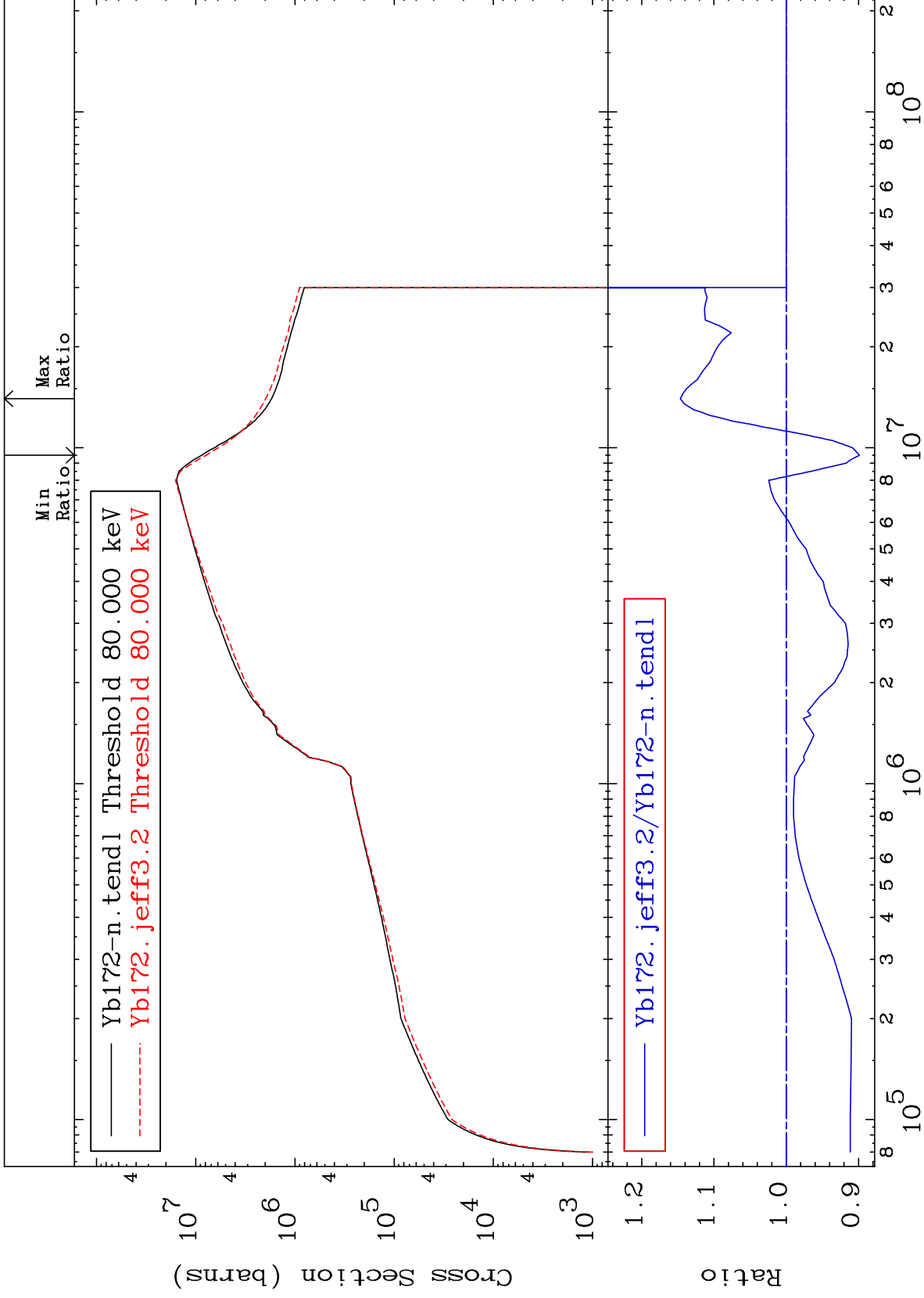
70-Yb-172  
-99.97 To 9999. %



71

Incident Energy (eV)

70-Yb-172

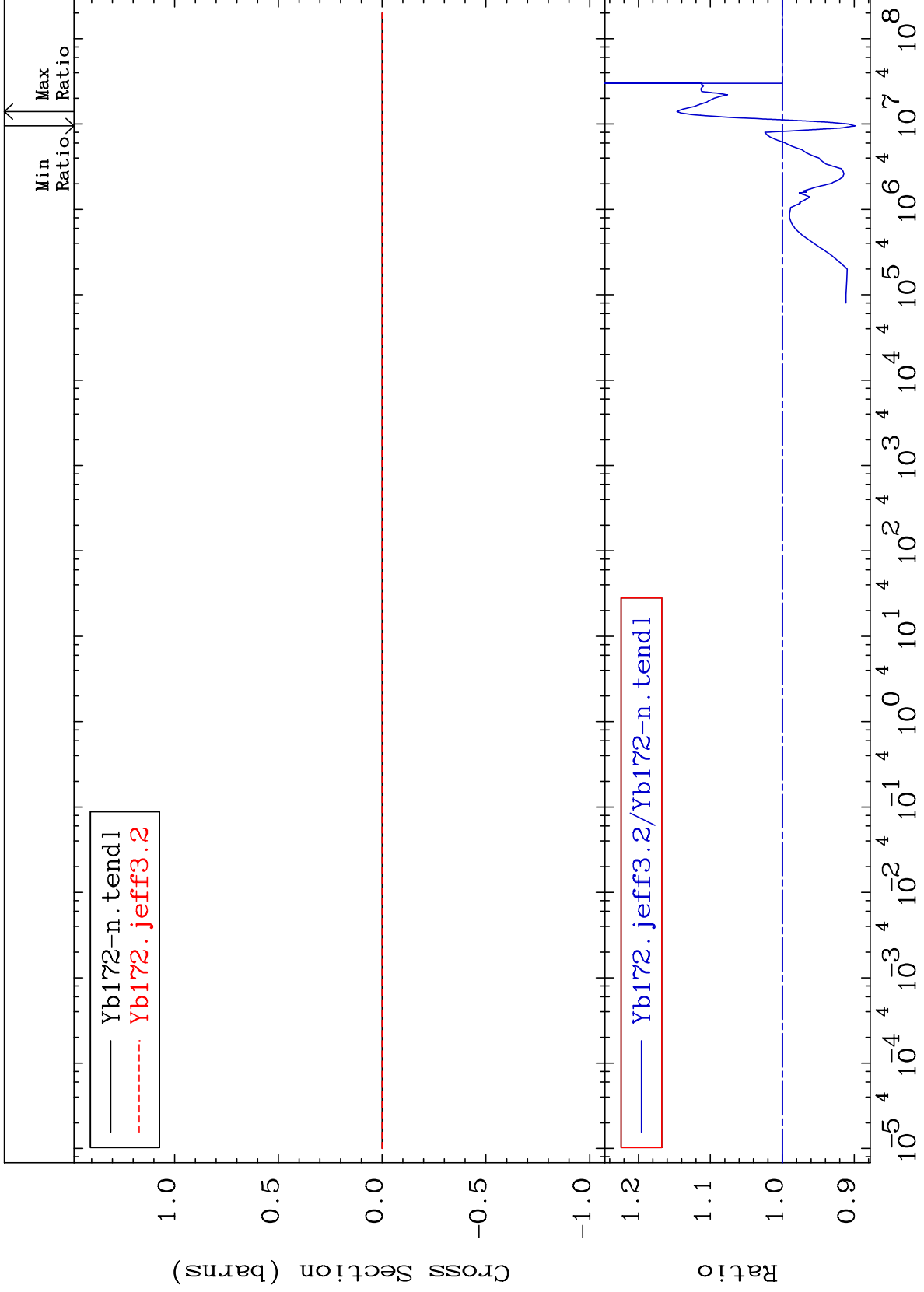




MAT 7037

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

70-Yb-172  
-10.13 To 14.65 %



73

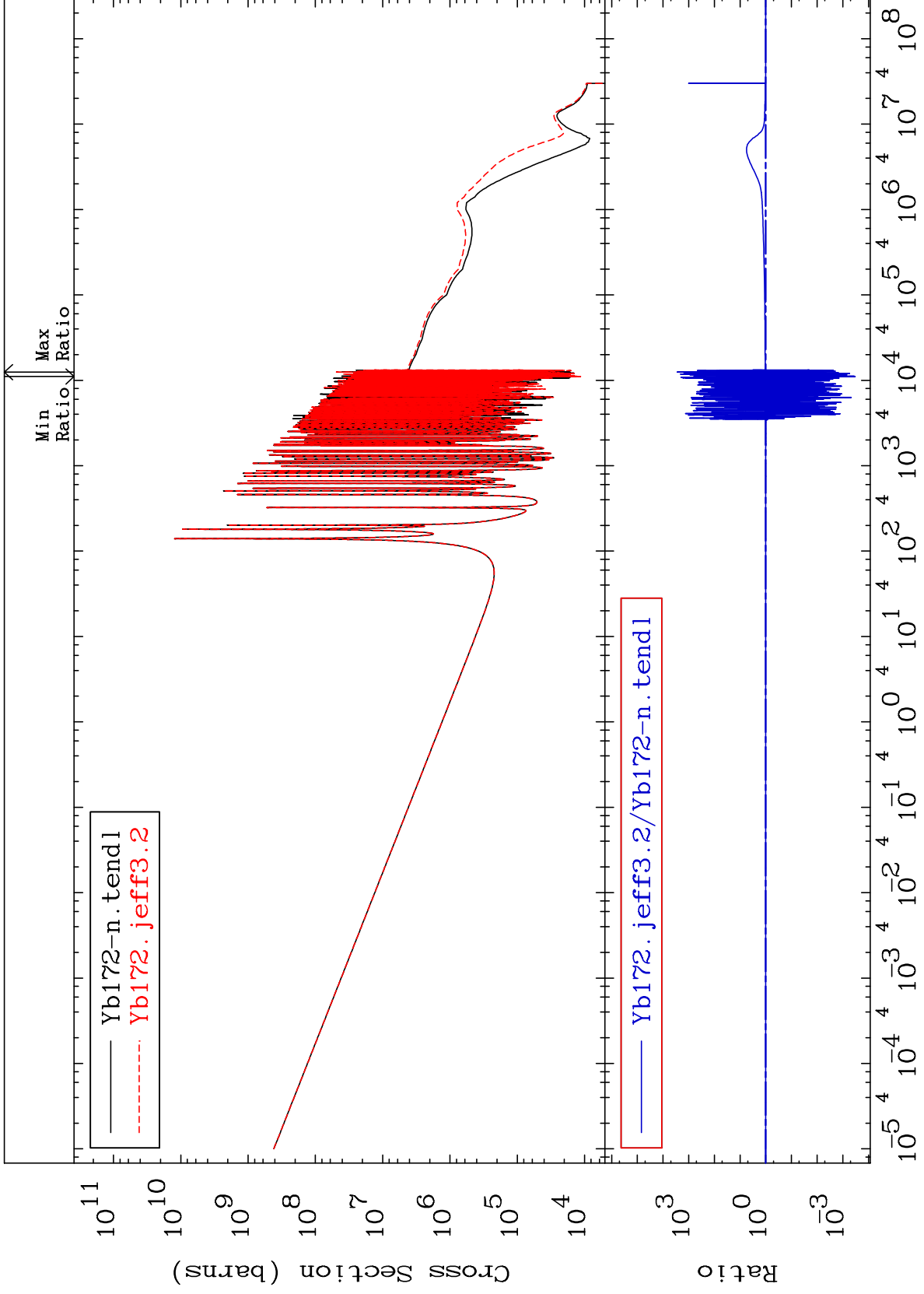
Incident Energy (eV)

70-Yb-172

MAT 7037

Kerma capture (mt102)  
Cross Section

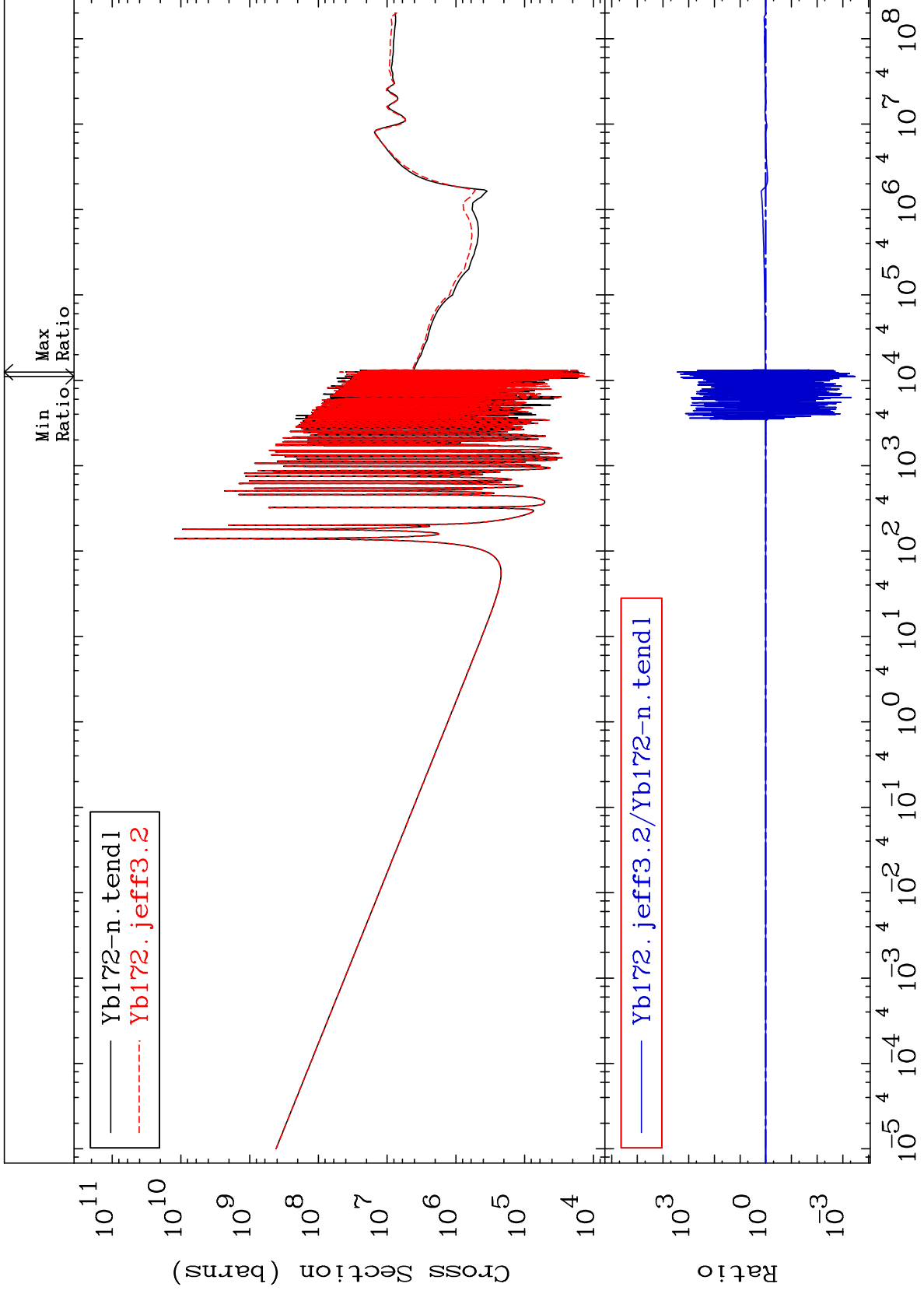
70-Yb-172  
-99.97 To 9999. %



MAT 7037

Total photon (eV-barns)  
Cross Section

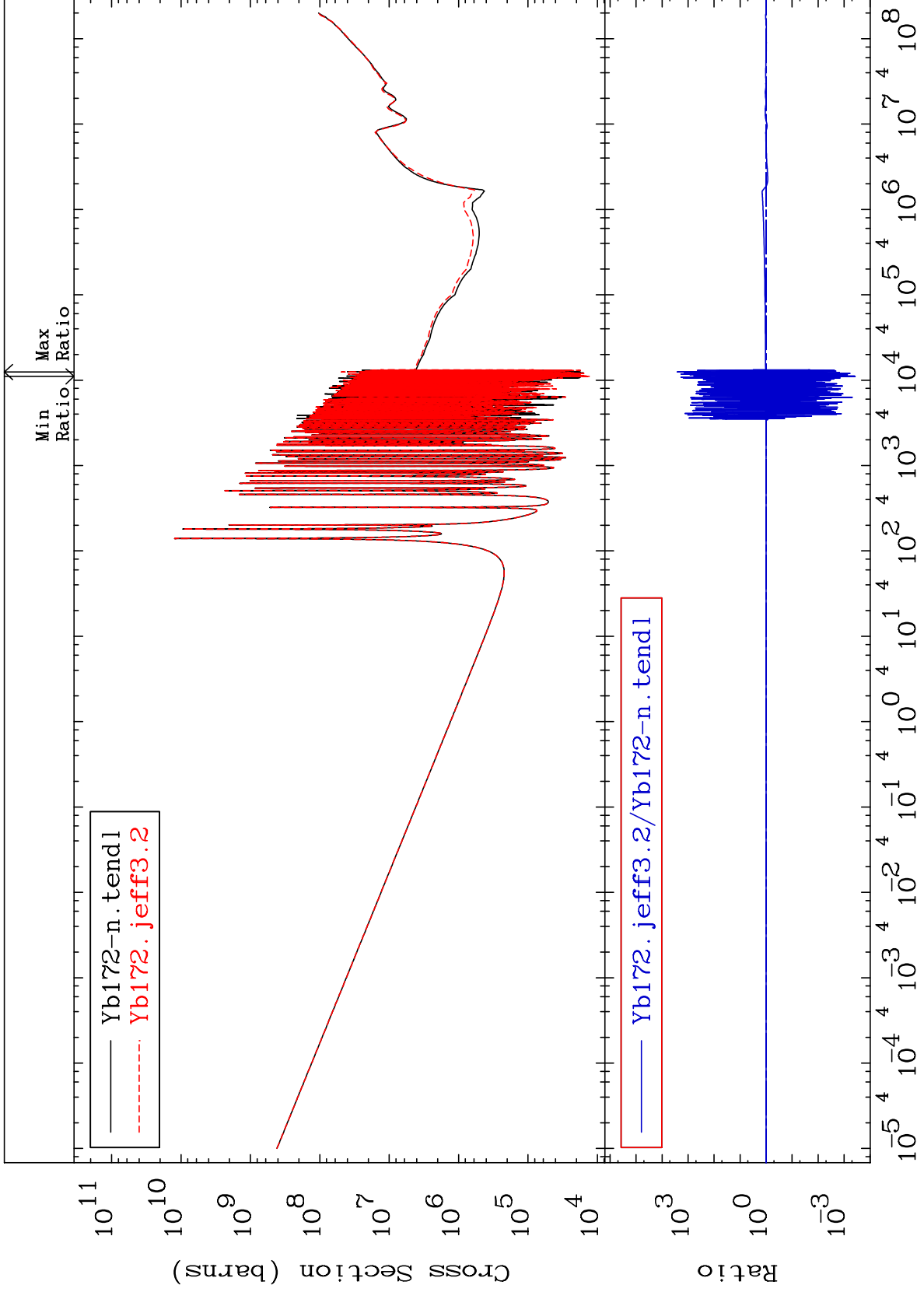
70-Yb-172  
-99.97 To 9999. %



75

Incident Energy (eV)

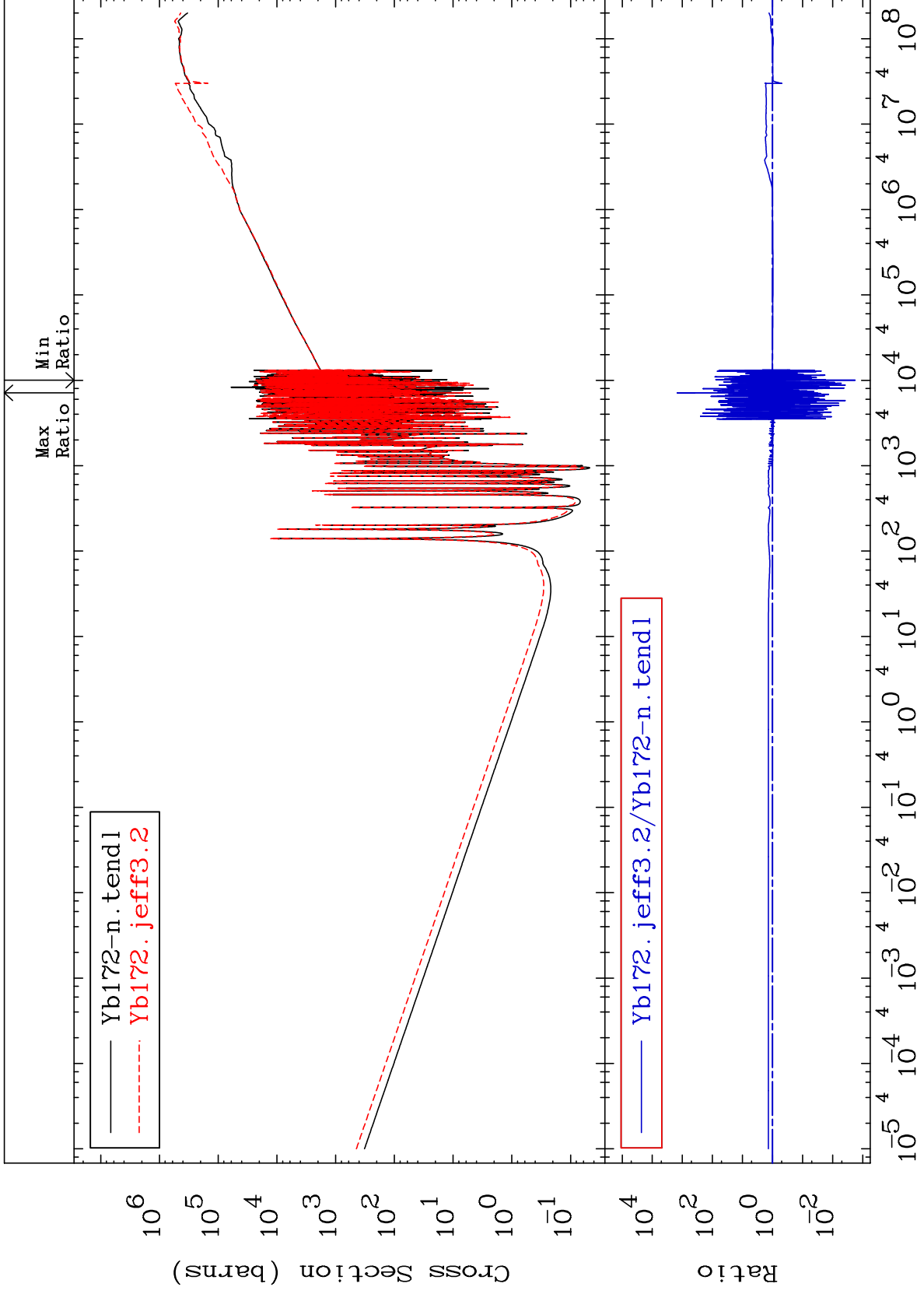
70-Yb-172



MAT 7037

Dpa total (eV-barns)  
Cross Section

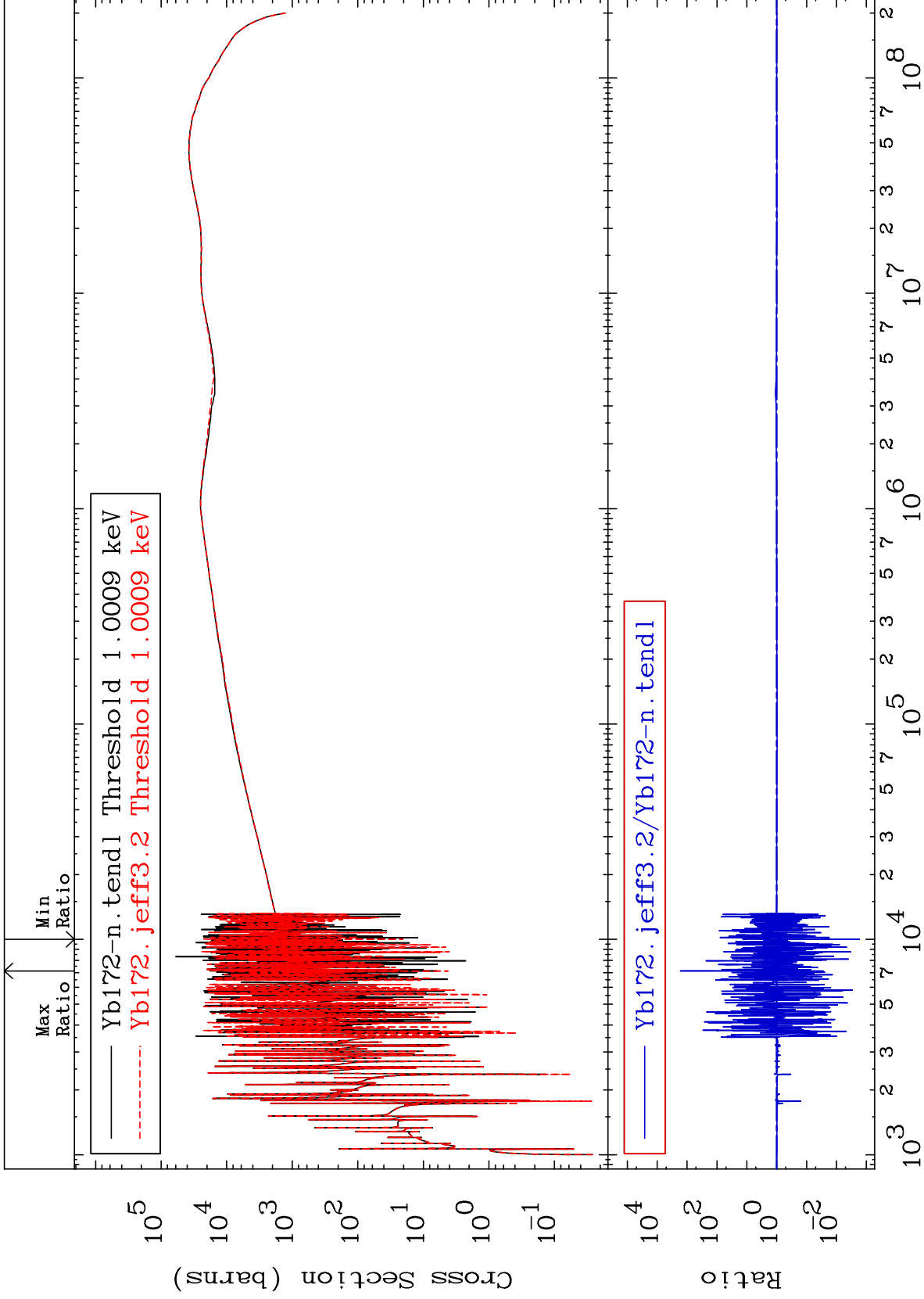
70-Yb-172  
-99.82 To 9999. %

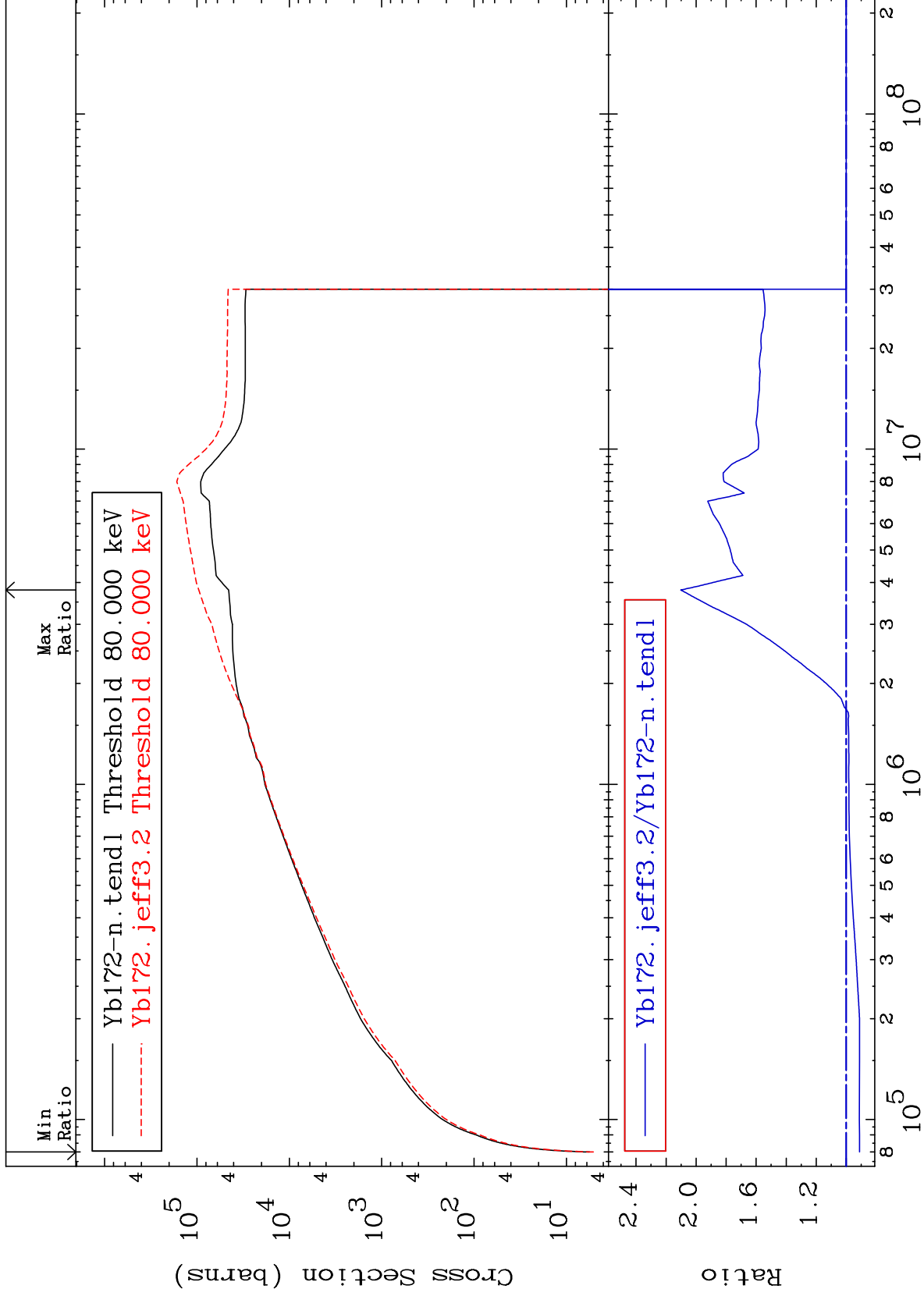


77

Incident Energy (eV)

70-Yb-172

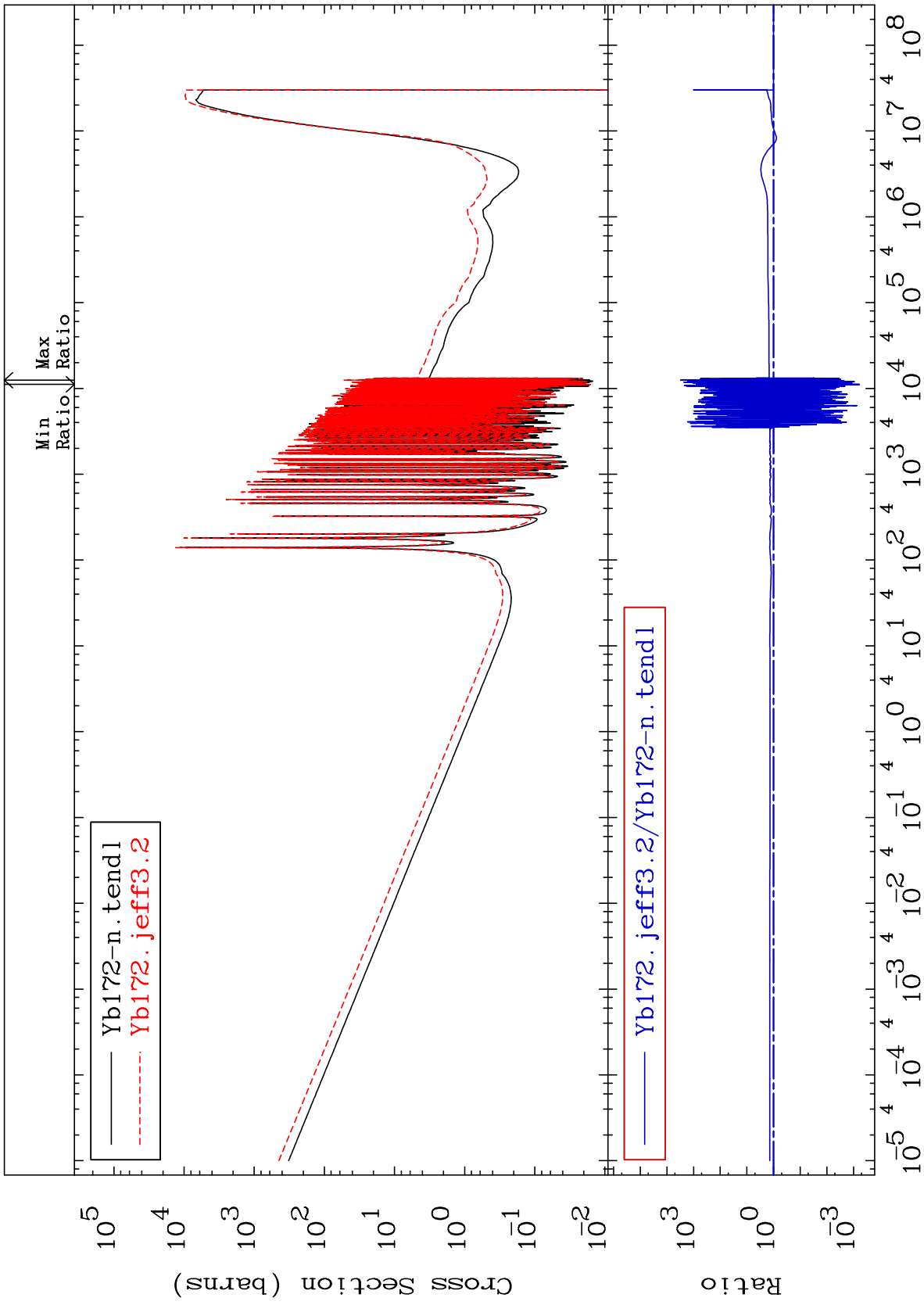




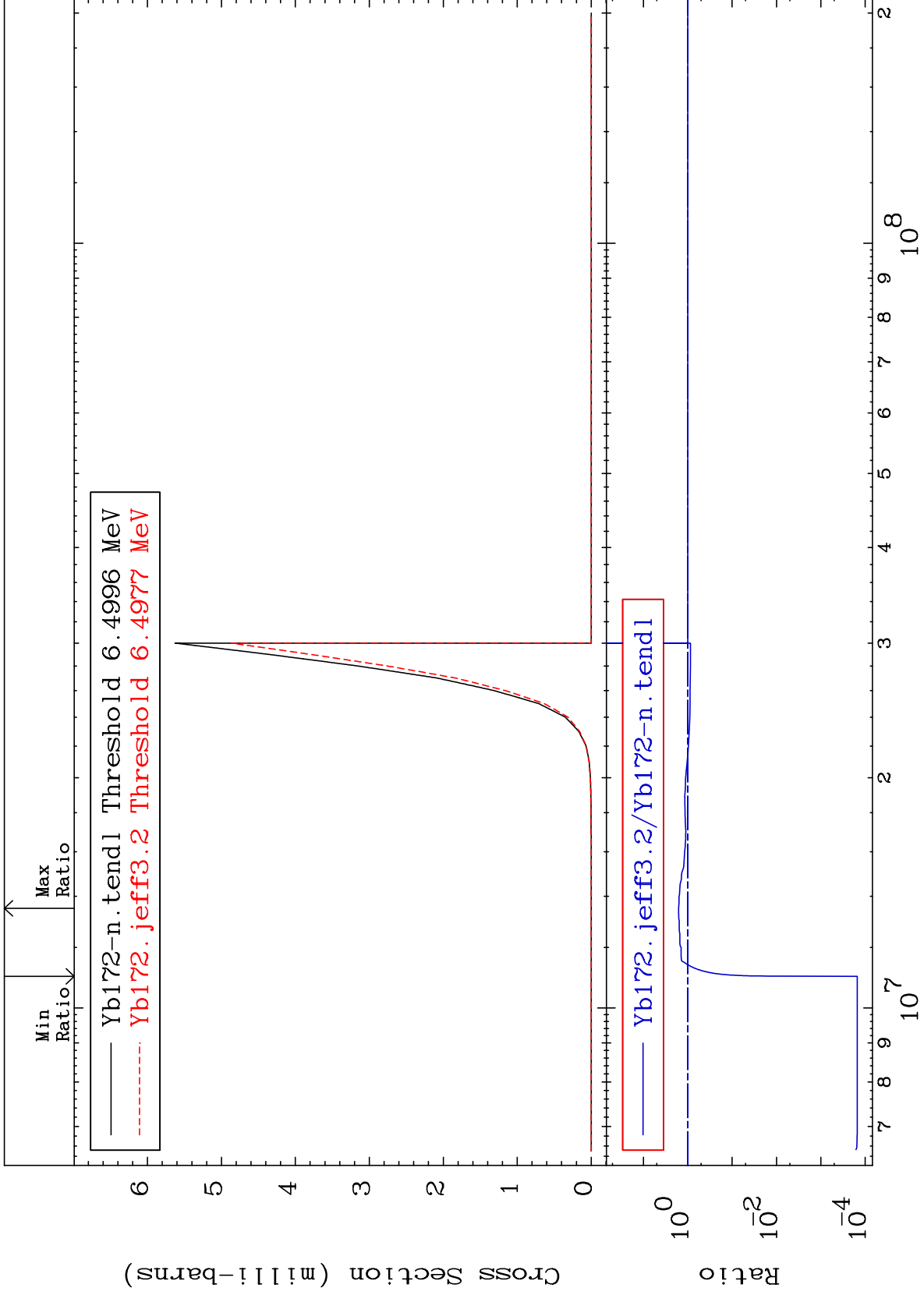
MAT 7037

Dpa disappearance (mt102 -120)  
Cross Section

70-Yb-172  
-99.94 To 9999. %







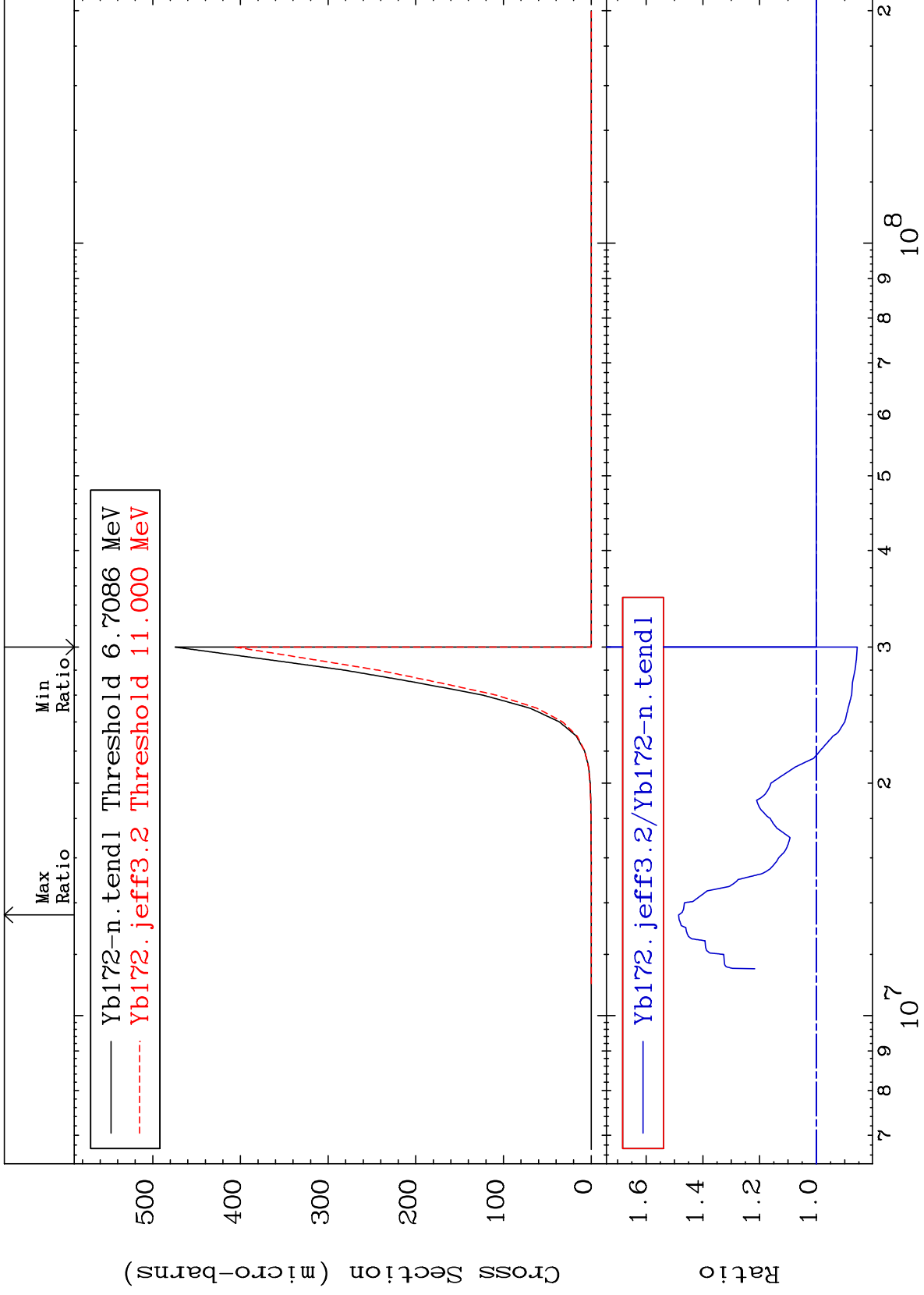
MAT 7037

(n,2n)  $\alpha$ : 68-Er-167m3

70-Yb-172

Radionuclide Production Cross Section

-14.42 To 48.53 %

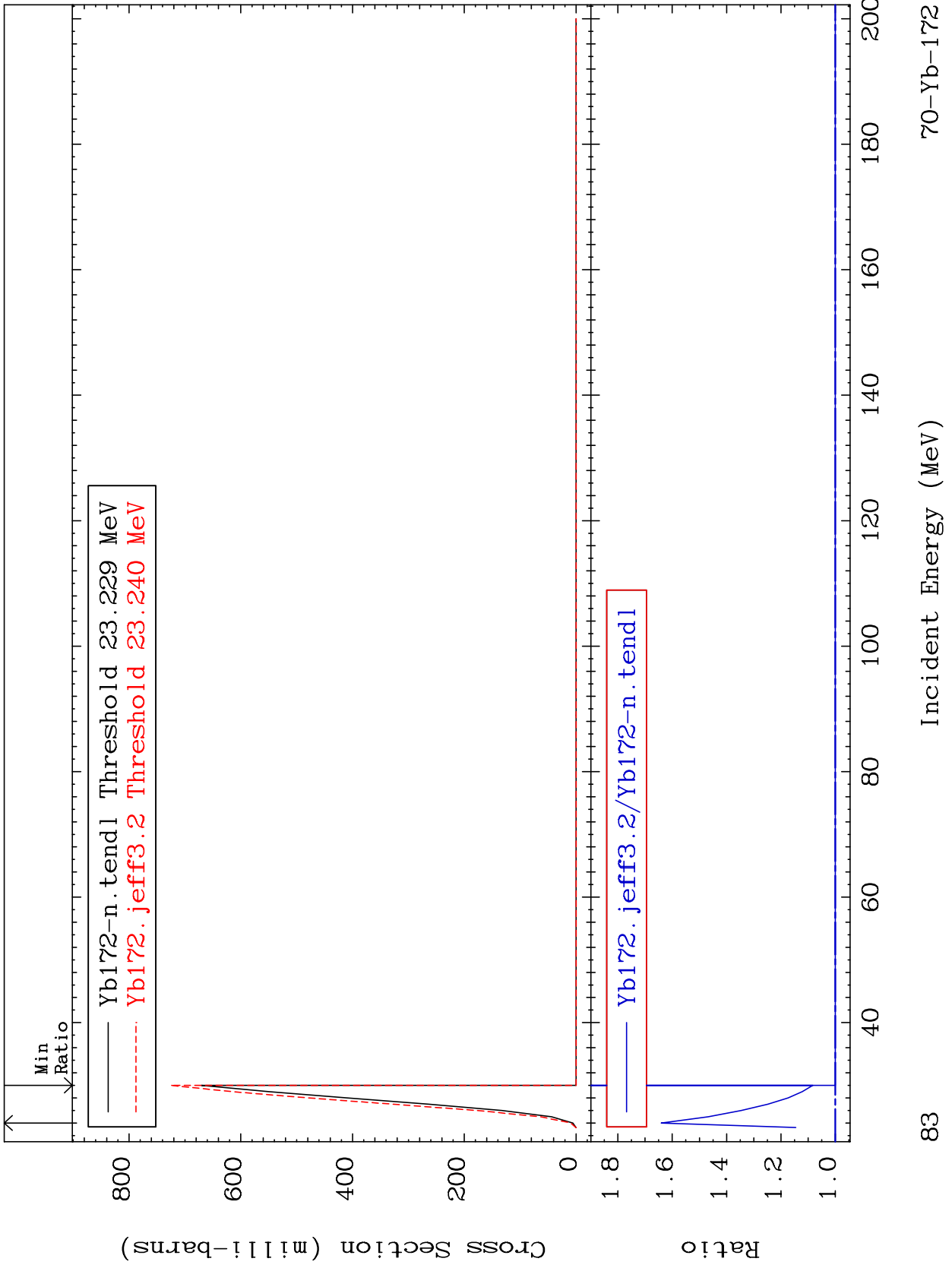


MAT 7037

(n, 4n) : 70-Yb-169g

70-Yb-172  
To 64.04 %

Radionuclide Production Cross Section 0.000

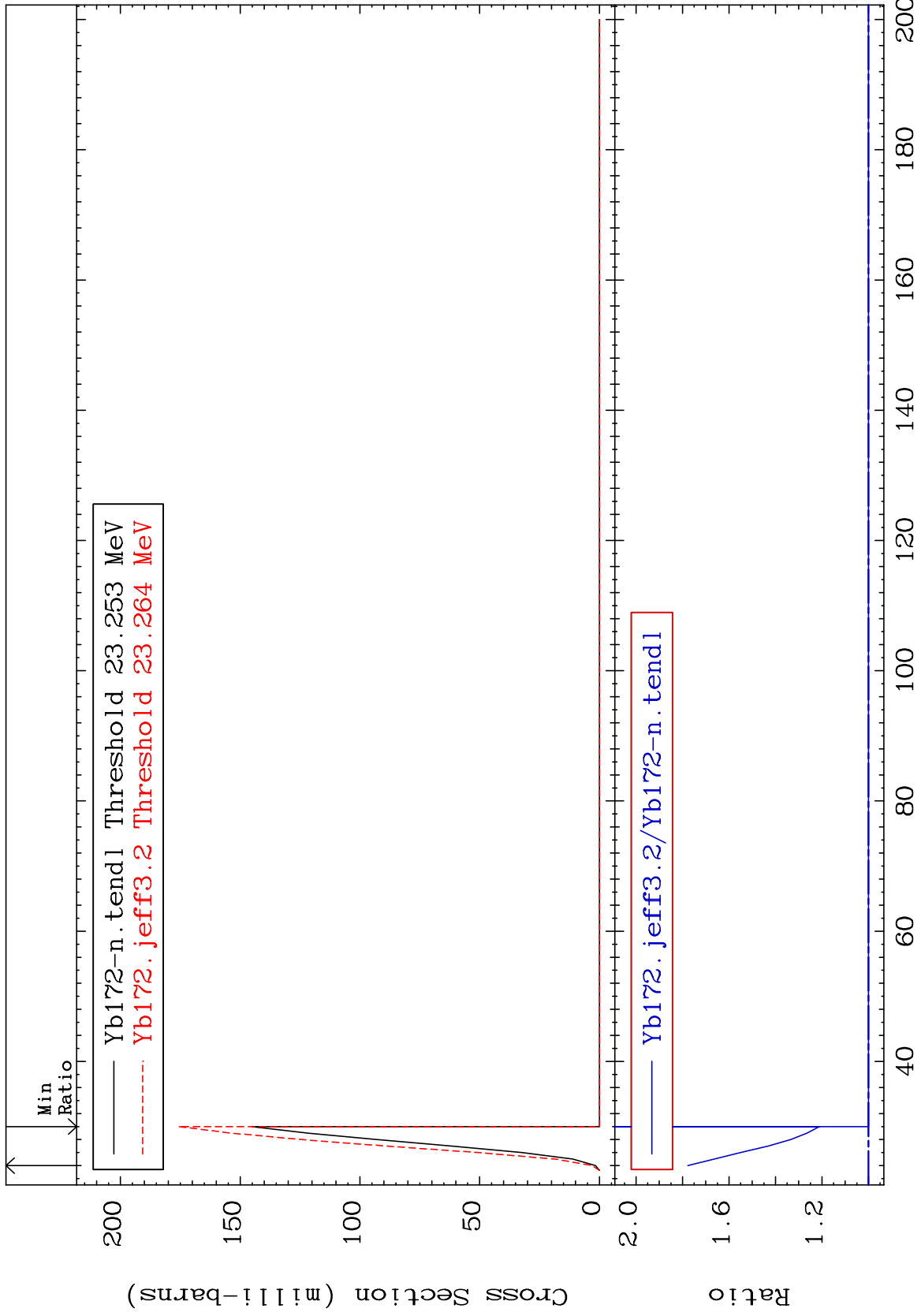


MAT 7037

(n, 4n):70-Yb-169m1

70-Yb-172

Radionuclide Production Cross Section 0.000 To 77.70 %



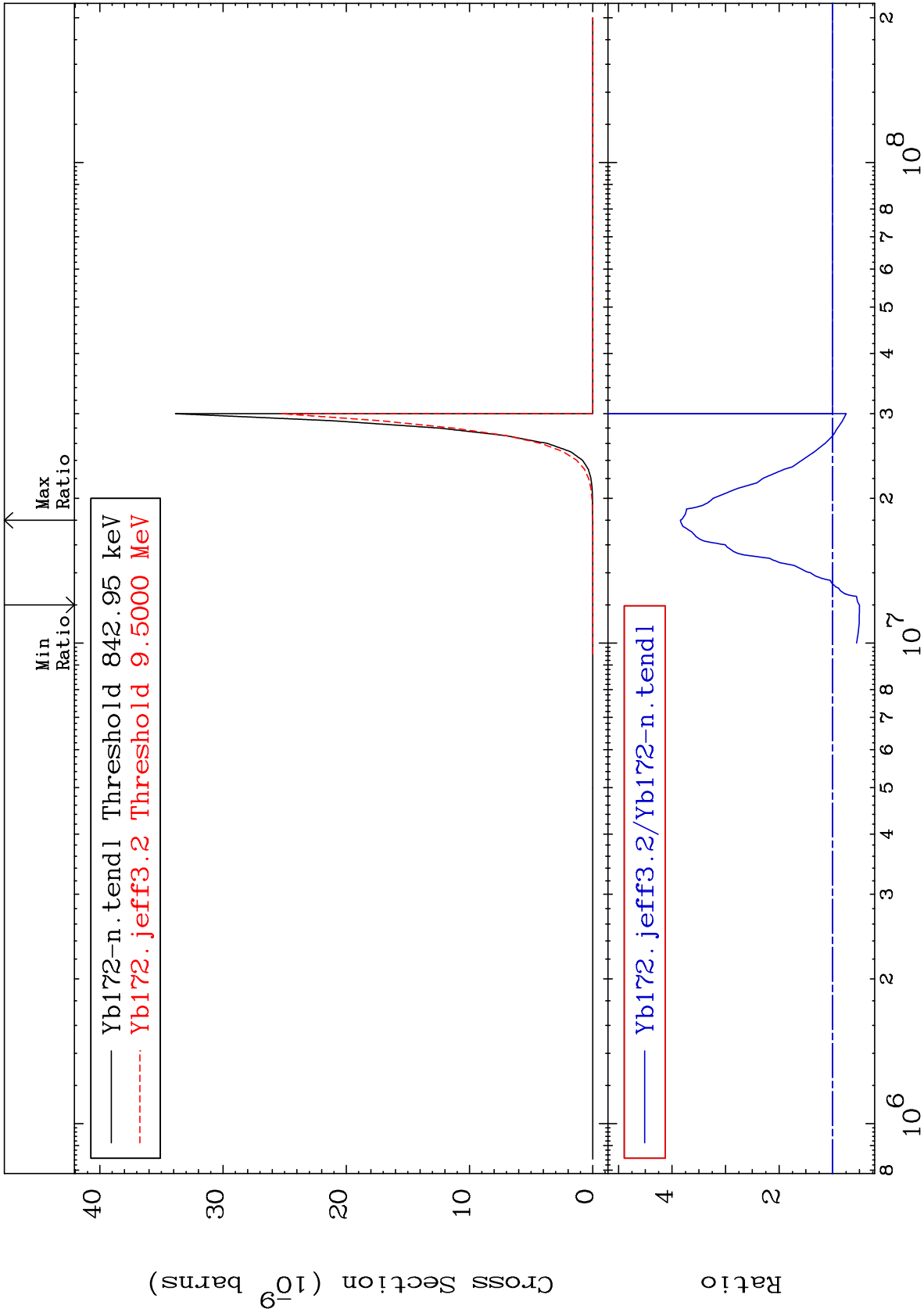
MAT 7037

(n, p)  $\alpha$ : 67-Ho-168g

70-Yb-172

Radionuclide Production Cross Section

-50.12 To 284.5 %



85

Incident Energy (eV)

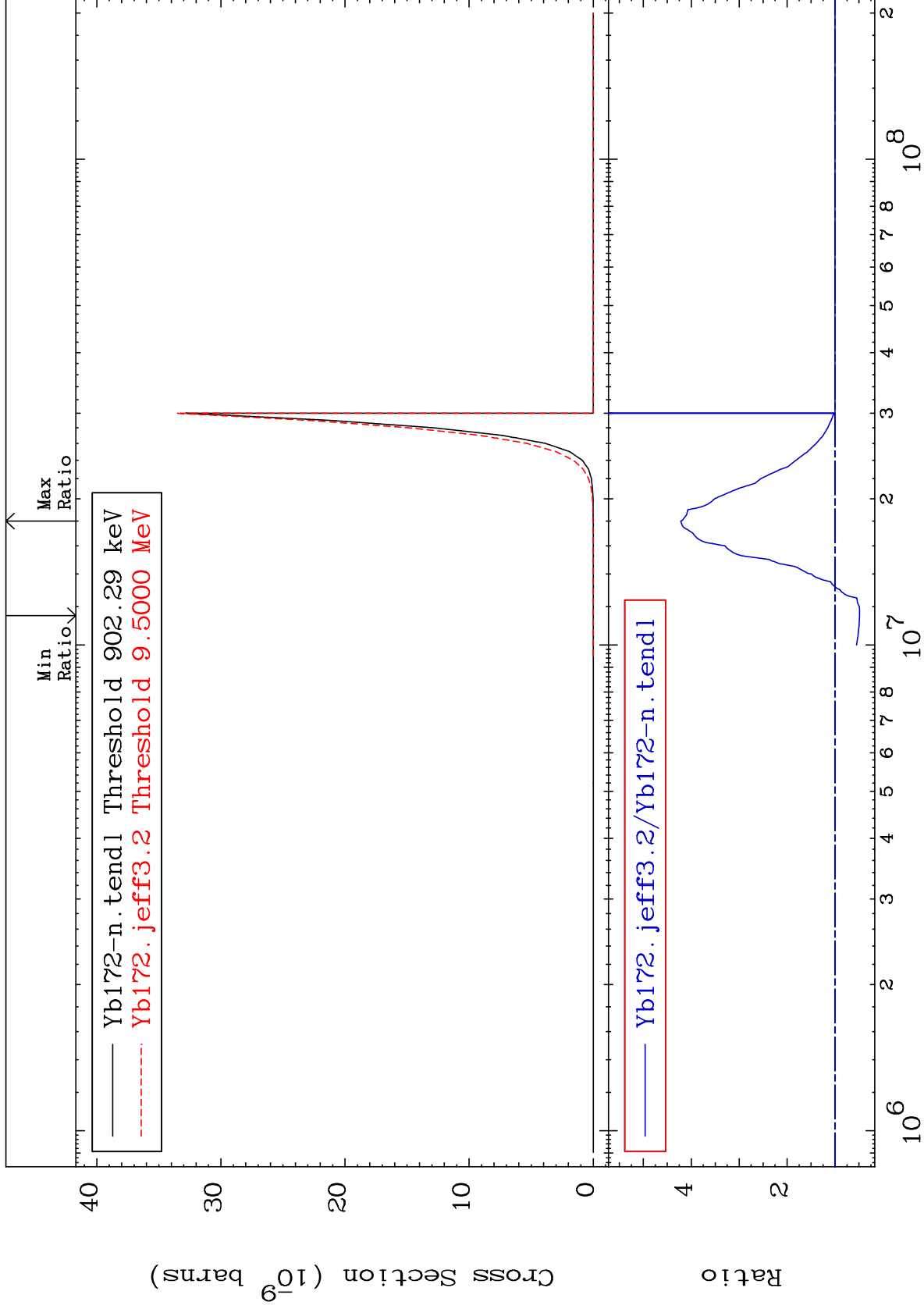
70-Yb-172

MAT 7037

(n, p)  $\alpha$ :67-Ho-168m1

70-Yb-172

Radionuclide Production Cross Section -51.20 To 321.9 %



86

Incident Energy (eV)

70-Yb-172