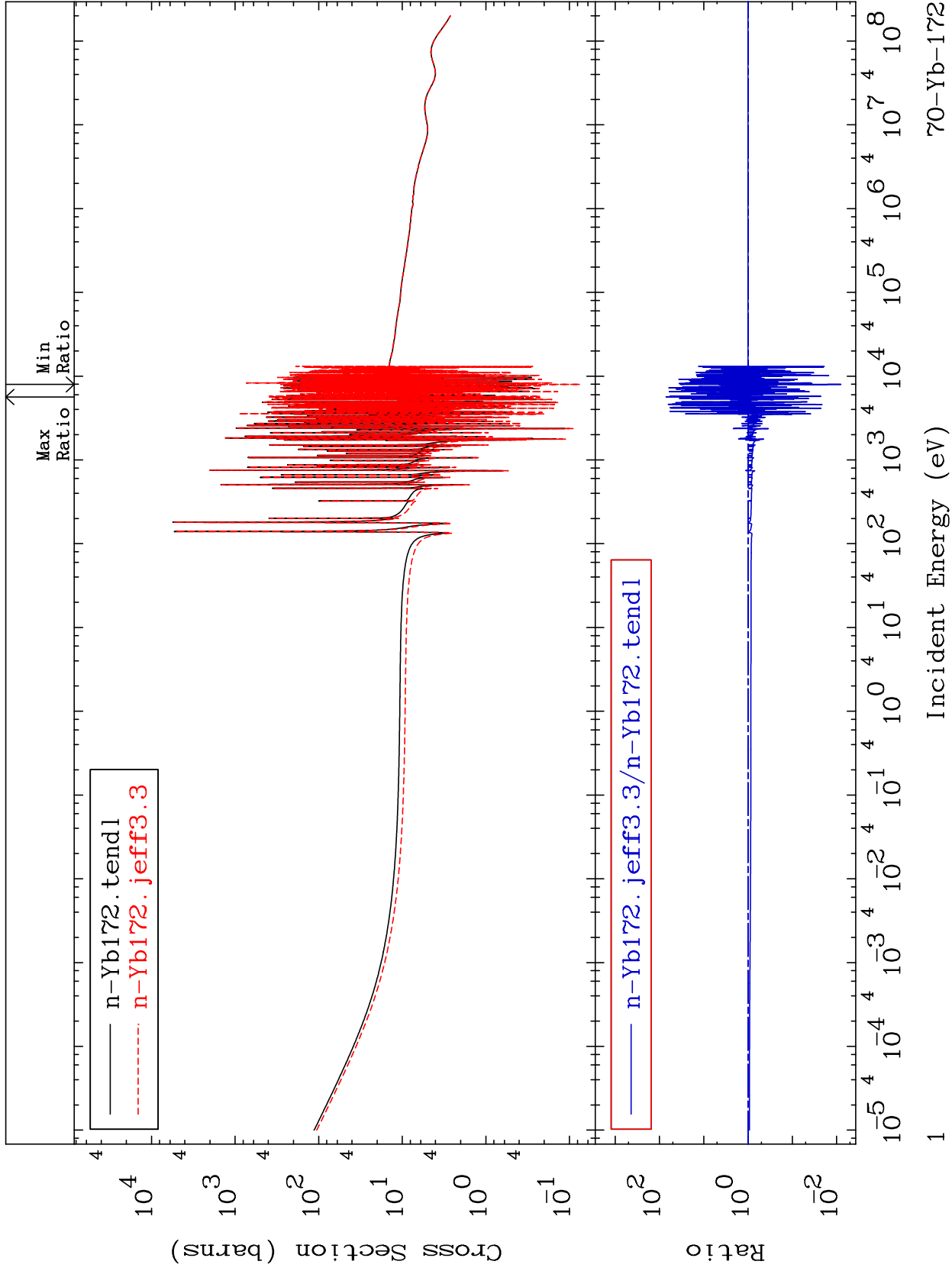


MAT 7037

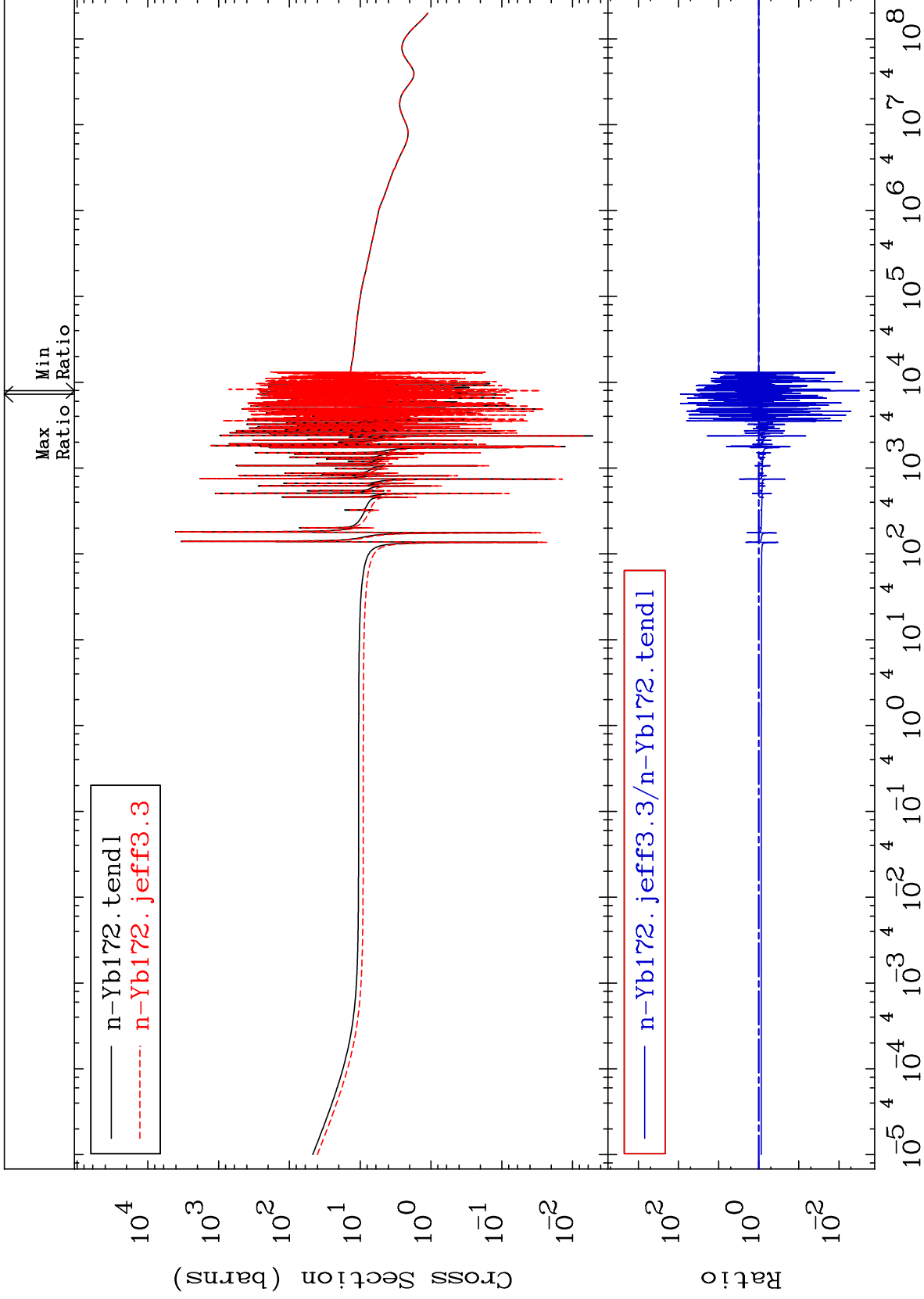
Total Cross Section
70-Yb-172
-99.20 To 7034. %



MAT 7037

Elastic
Cross Section

70-Yb-172
-99.69 To 8894. %

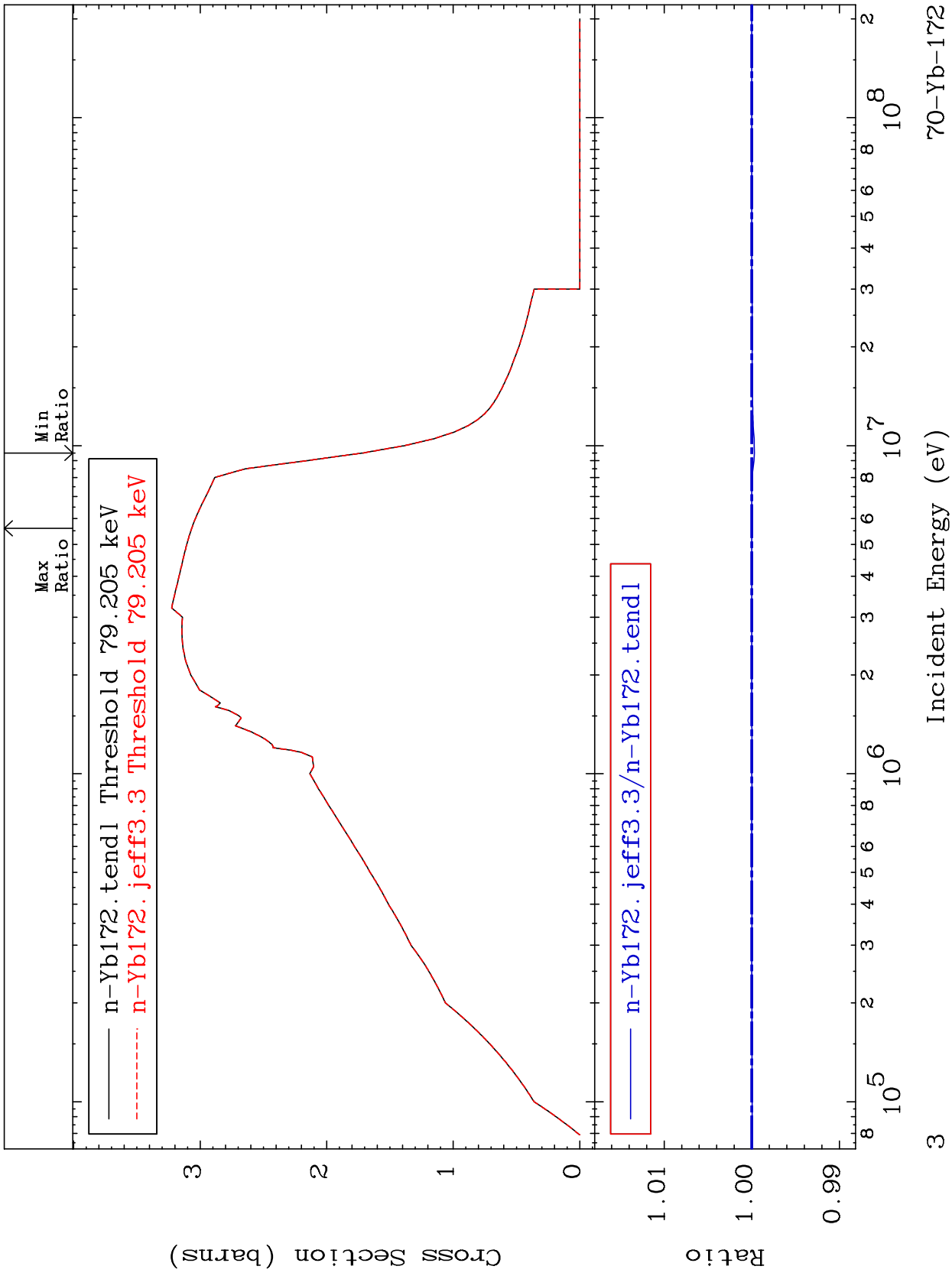


Incident Energy (eV)

70-Yb-172

MAT 7037

Inelastic Cross Section
70-Yb-172
-0.031 To 0.000 %



3

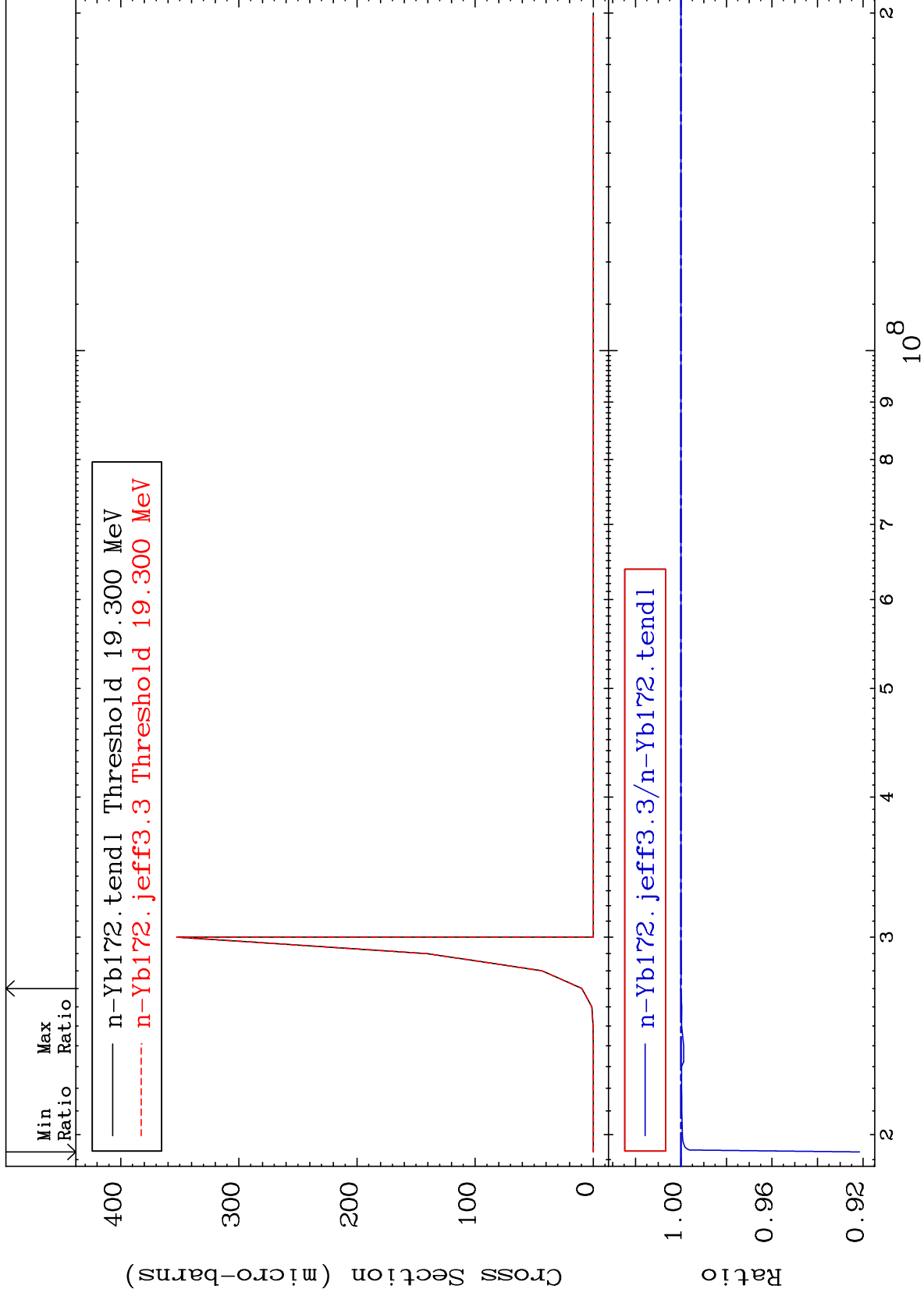
Incident Energy (eV)

70-Yb-172

MAT 7037

(n,2n) d
Cross Section

70-Yb-172
-7.849 To 0.010 %



4

Incident Energy (eV)

70-Yb-172

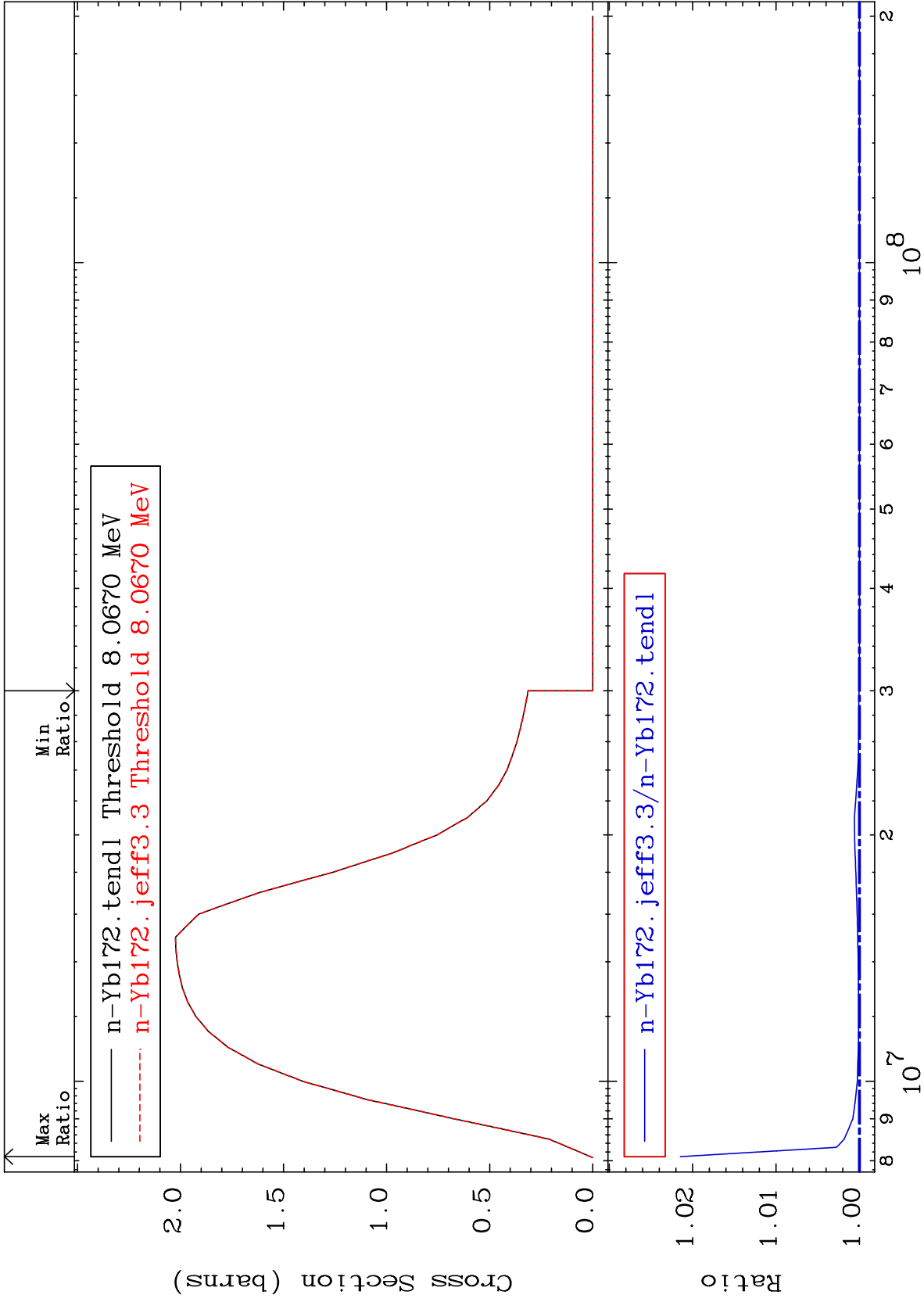
MAT 7037

(n,2n)

70-Yb-172

Cross Section

0.000 To 2.148 %



Incident Energy (eV)

70-Yb-172

MAT 7037

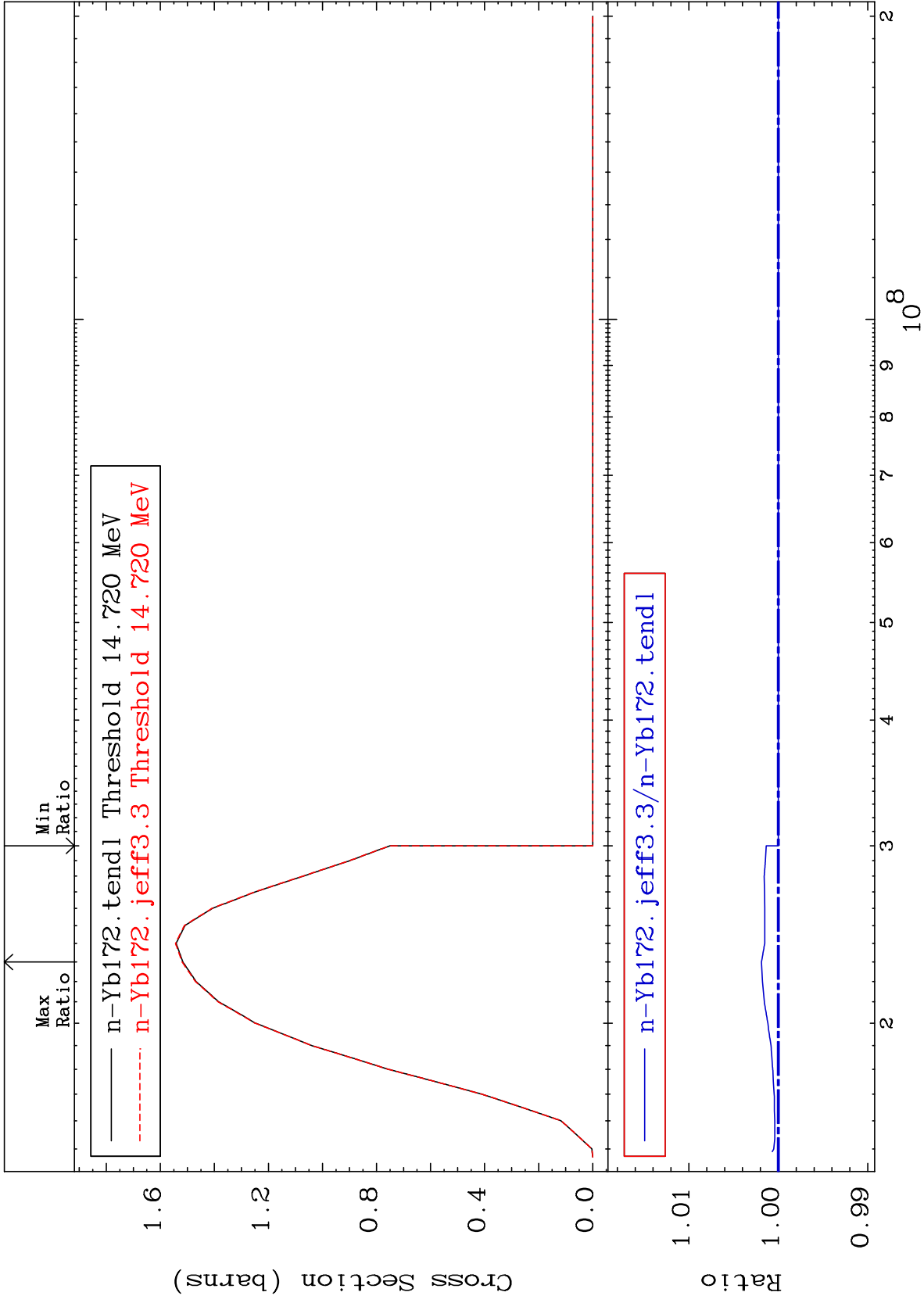
(n,3n)

70-Yb-172

Cross Section

0.000

To 0.189 %



MAT 7037

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

70-Yb-172
-15.91 To 9999. %

— n-Yb172.tendl Threshold 10.010 keV
- - - n-Yb172.jeff3.3 Threshold 13.132 keV

Max Ratio
Min Ratio

Cross Section (milli-barns)

15
10
5
0

Ratio
 10^9
 10^6
 10^3
 10^0

— n-Yb172.jeff3.3/n-Yb172.tendl

7

2 3 4 5 7
 10^4
 10^5
 10^6
 10^7
 10^8

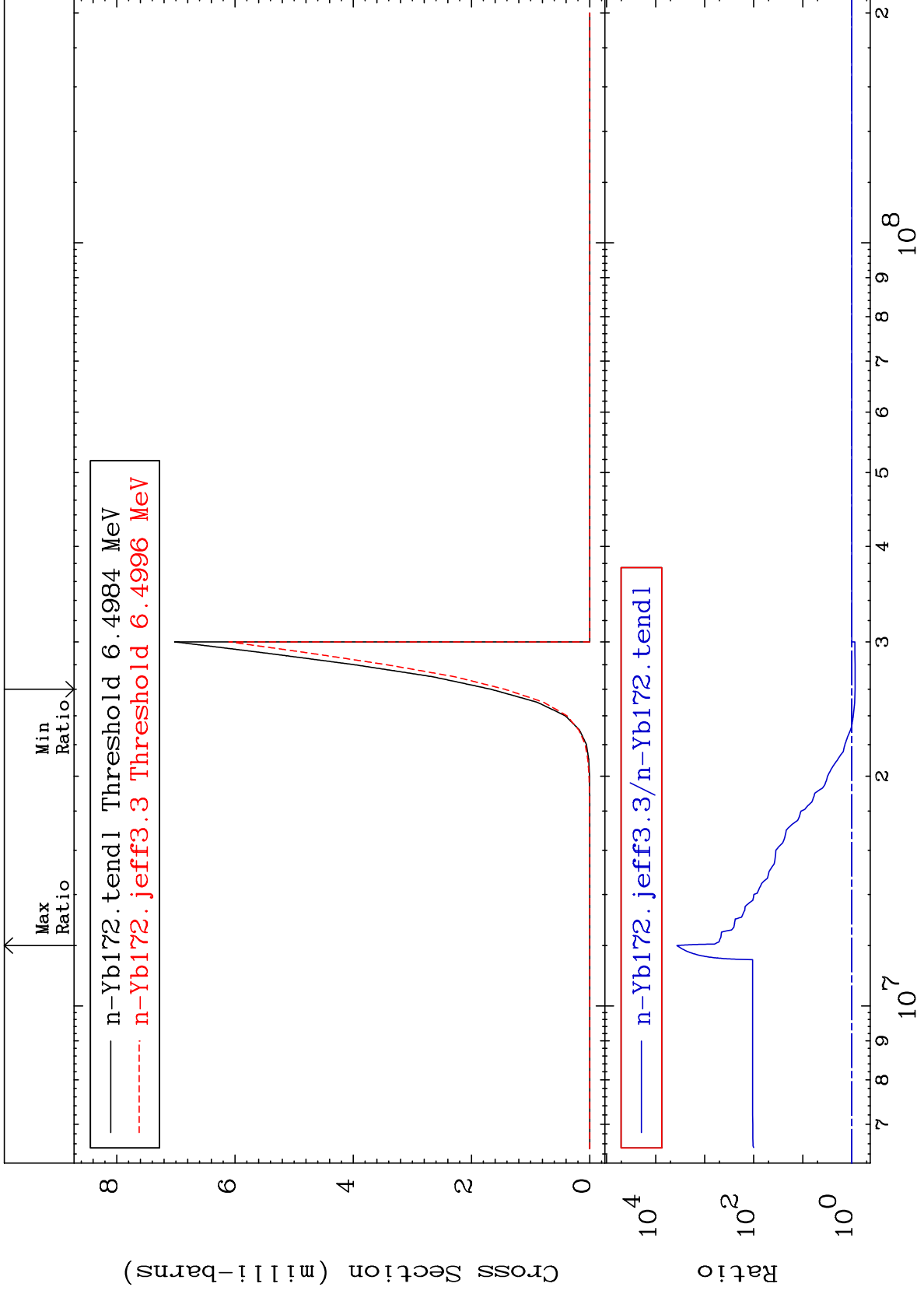
Incident Energy (eV)

70-Yb-172

MAT 7037

(n,2n) α
Cross Section

⁷⁰Yb-172
-14.07 To 9999. %



8

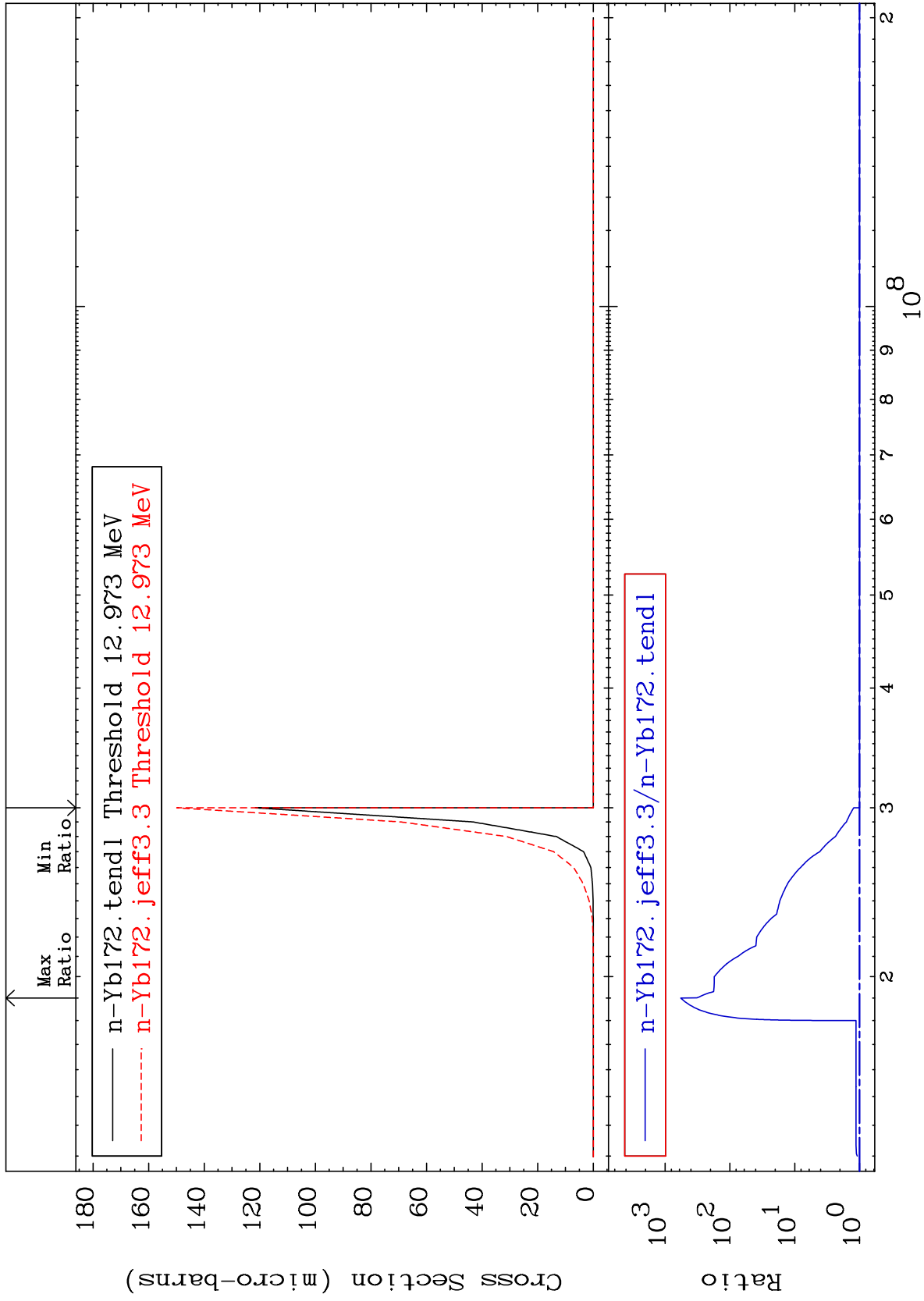
Incident Energy (eV)

⁷⁰Yb-172

MAT 7037

(n,3n) α
Cross Section

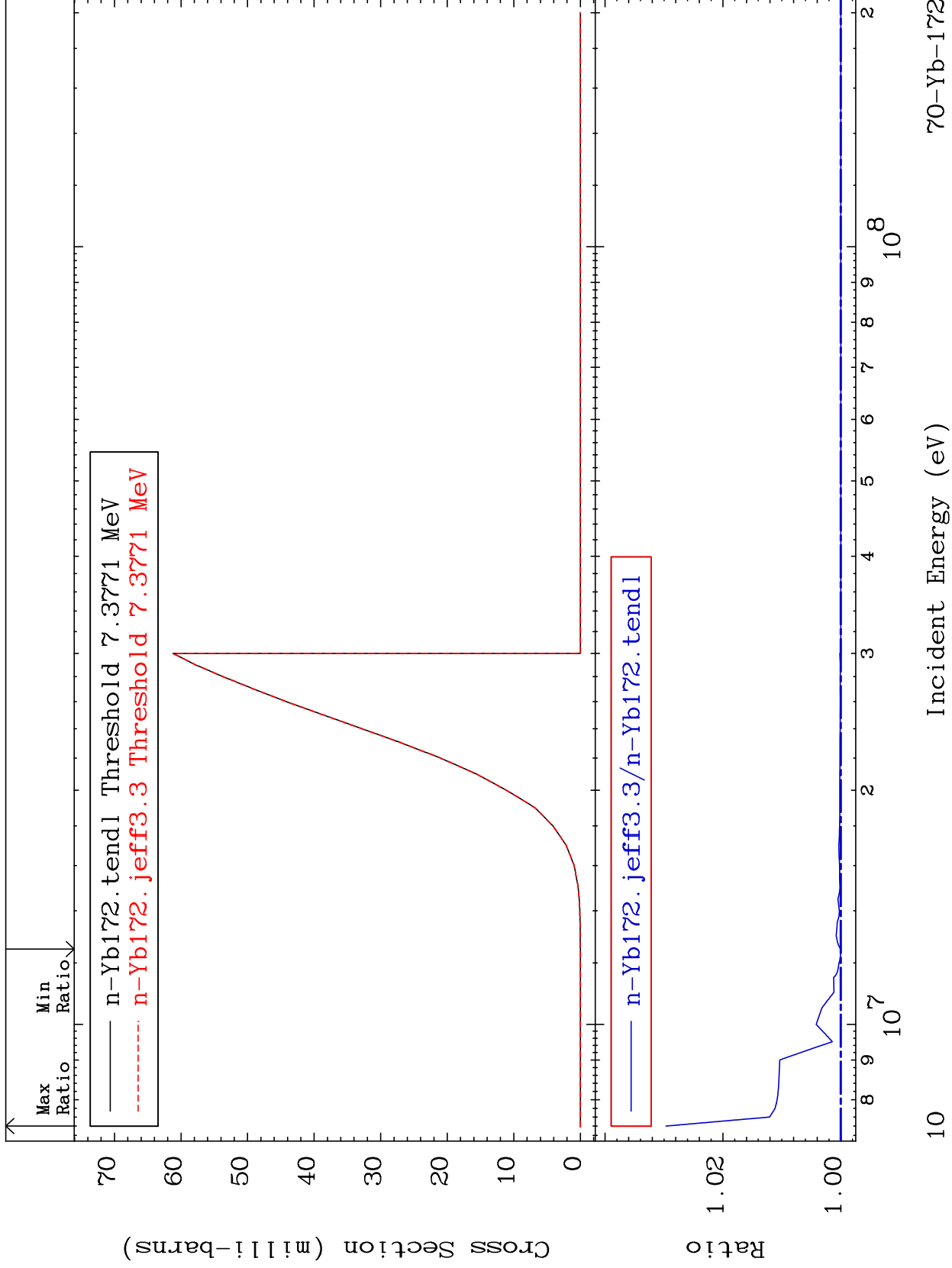
70-Yb-172
To 9999. %
0.000



MAT 7037

(n,n') p
Cross Section

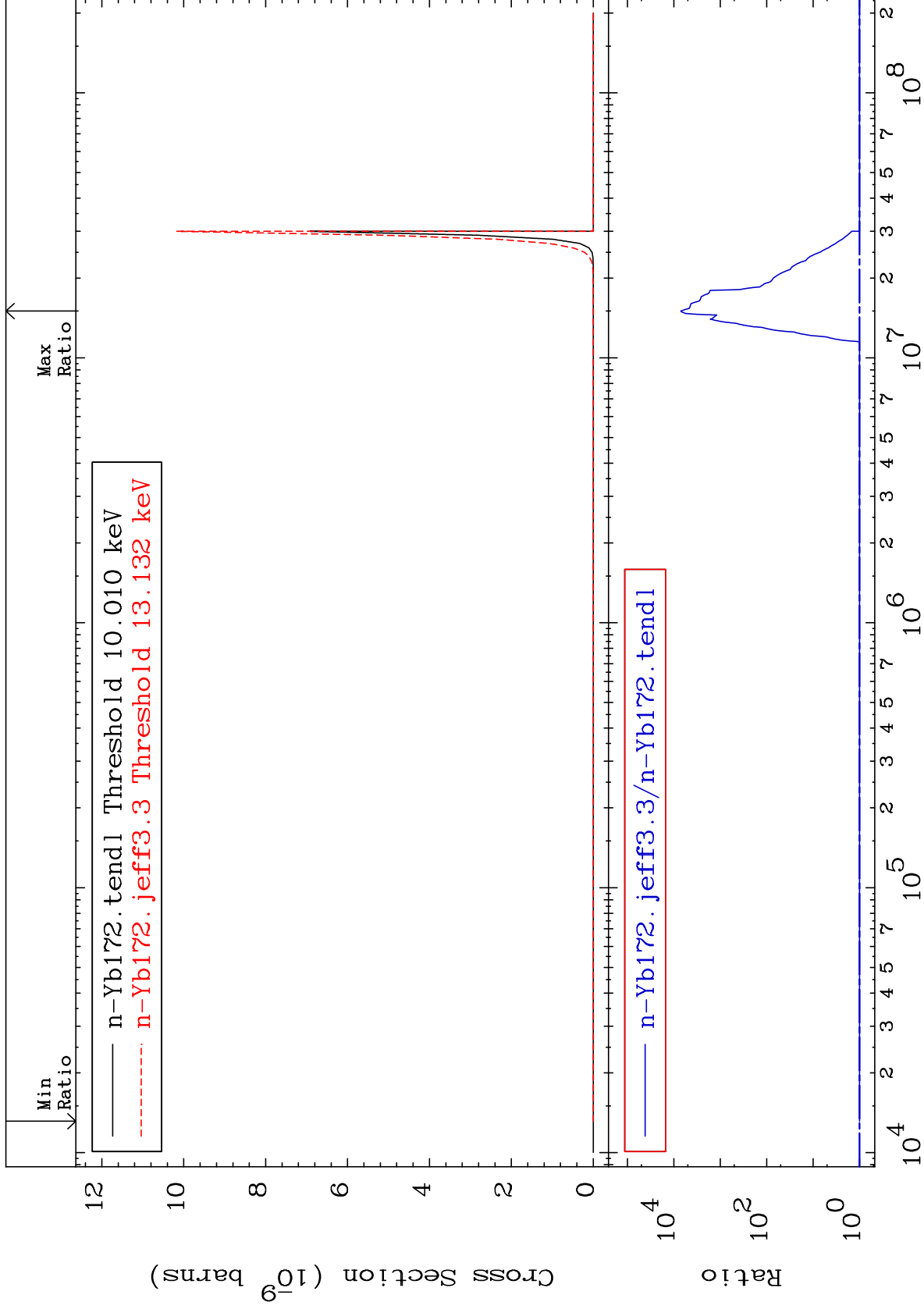
70-Yb-172
-0.002 To 2.967 %



MAT 7037

(n, n') 2α
Cross Section

70-Yb-172
To 9999. %



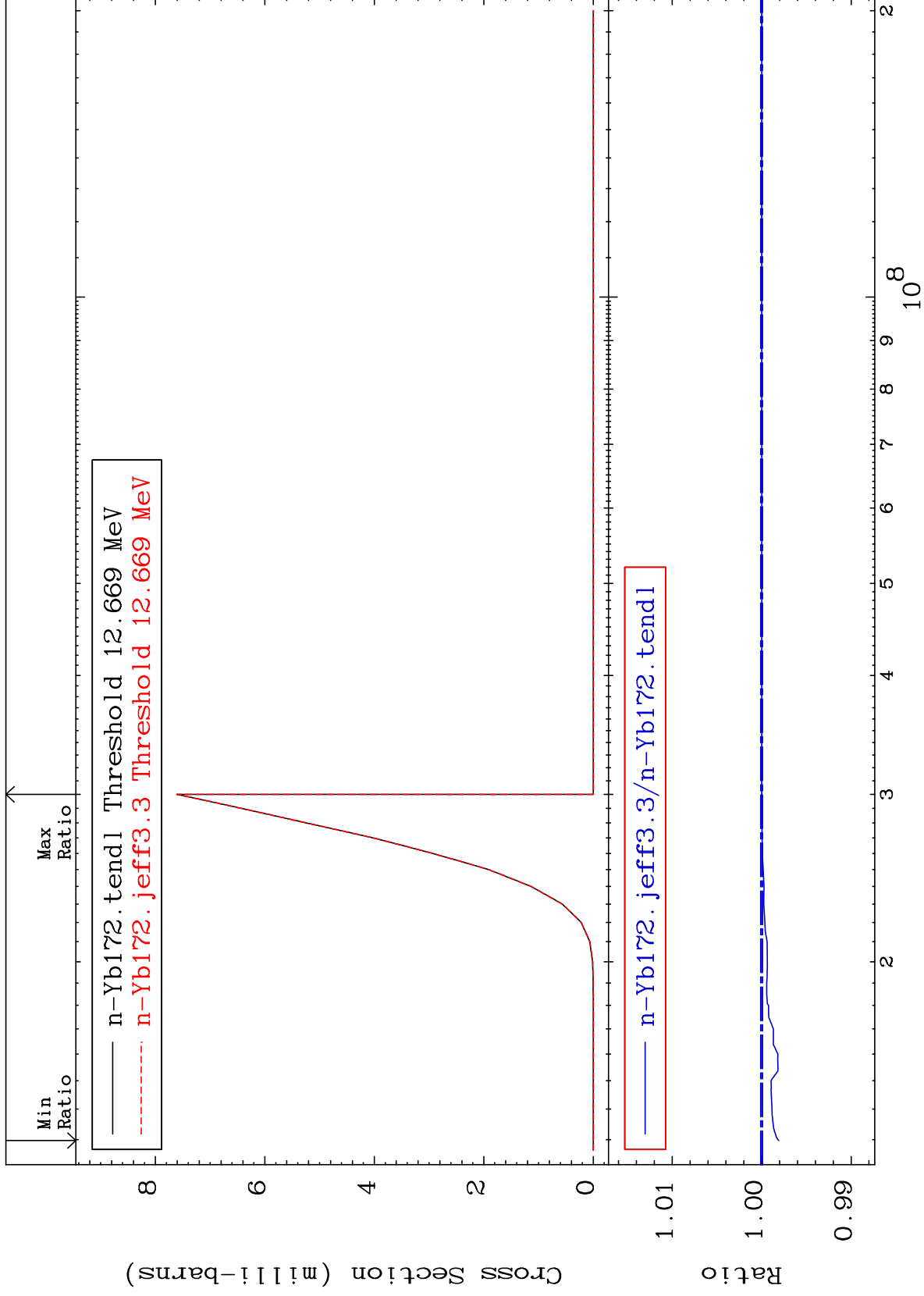
MAT 7037

(n,n') d

70-Yb-172

Cross Section

-0.190 To 0.000 %



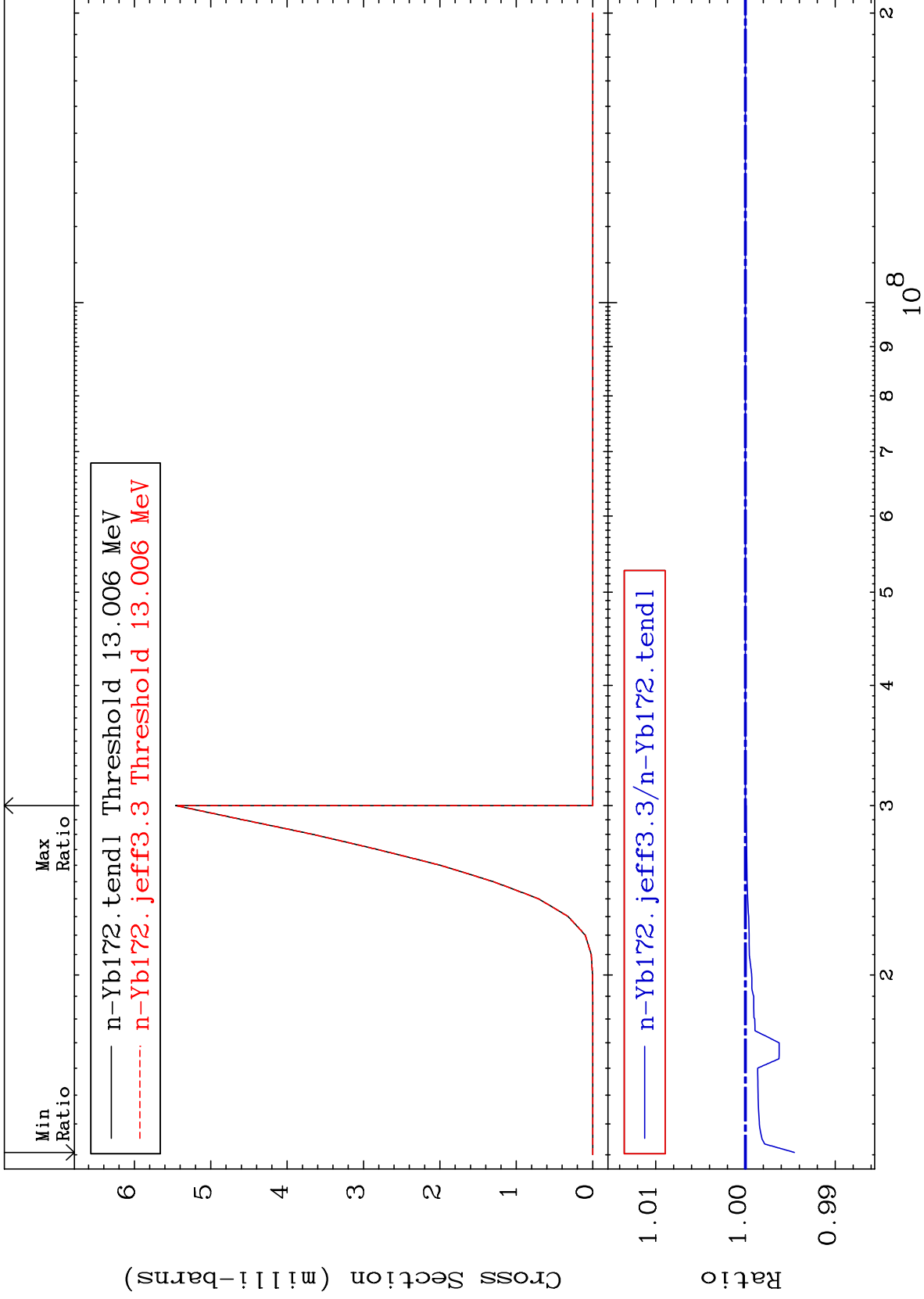
MAT 7037

(n,n') t

70-Yb-172

Cross Section

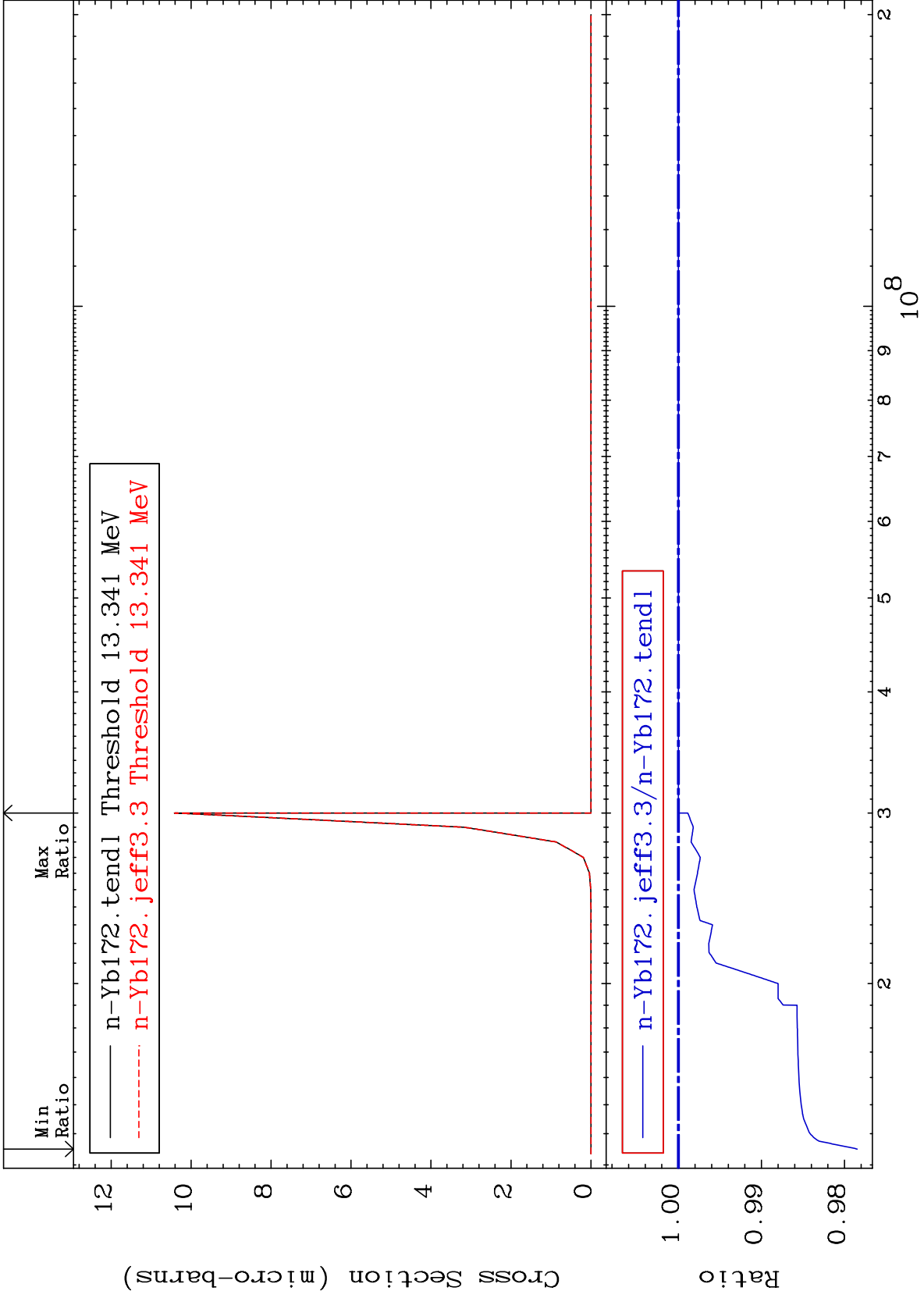
-0.545 To 0.000 %



MAT 7037

(n, n') He-3
Cross Section

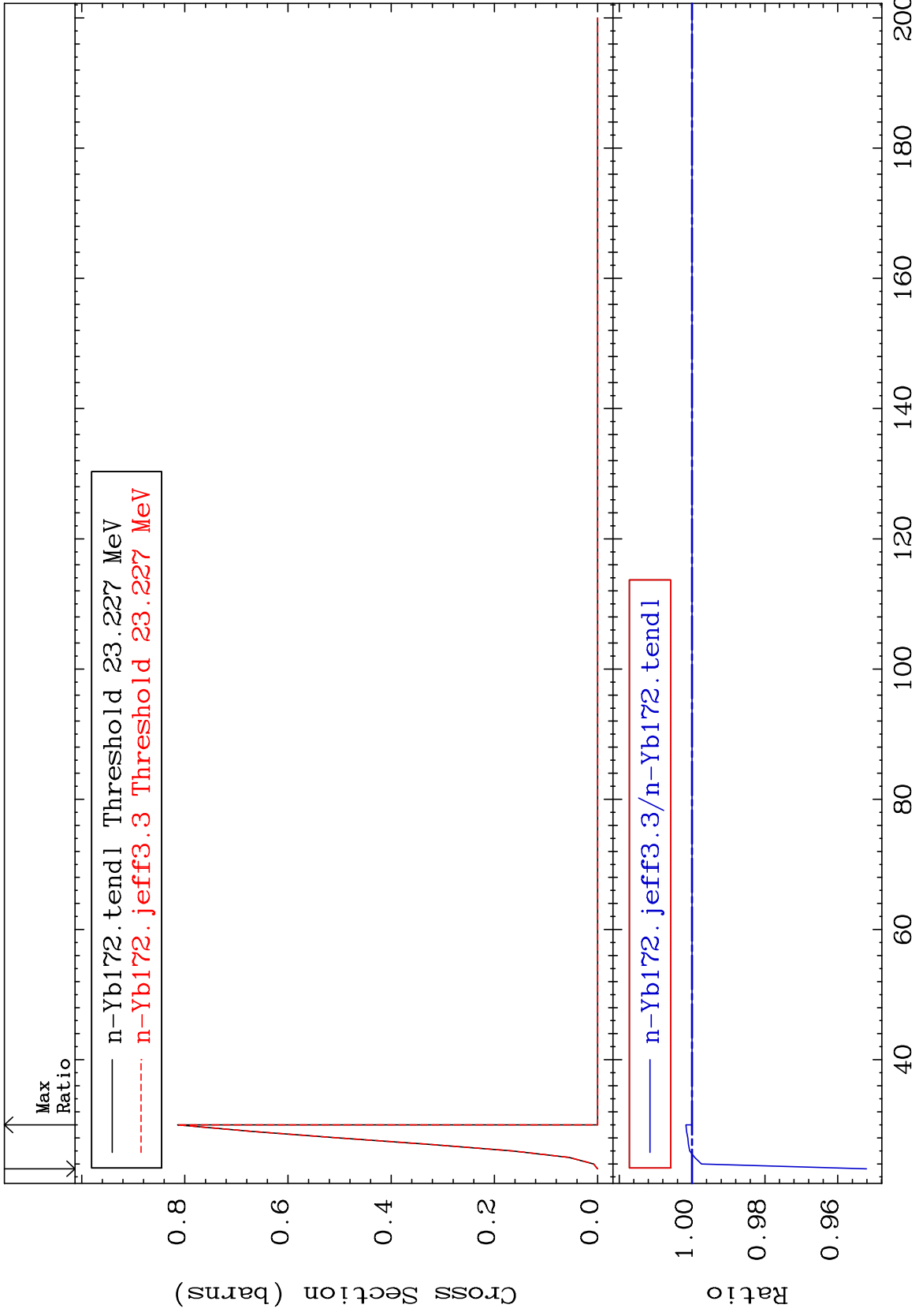
70-Yb-172
-2.152 To 0.000 %



MAT 7037

(n,4n)
Cross Section

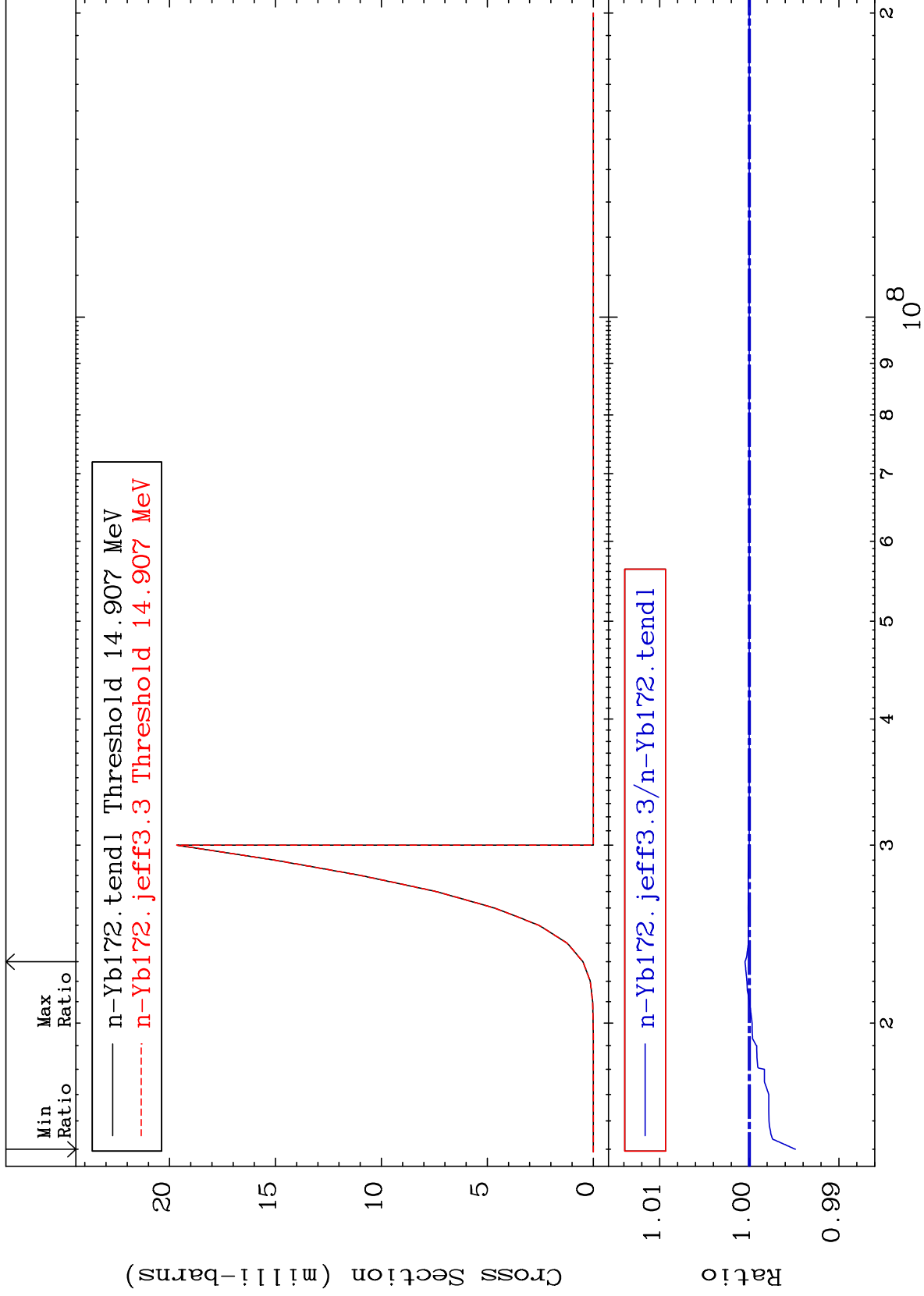
⁷⁰Yb-172
-4.789 To 0.167 %



MAT 7037

(n,2n) p
Cross Section

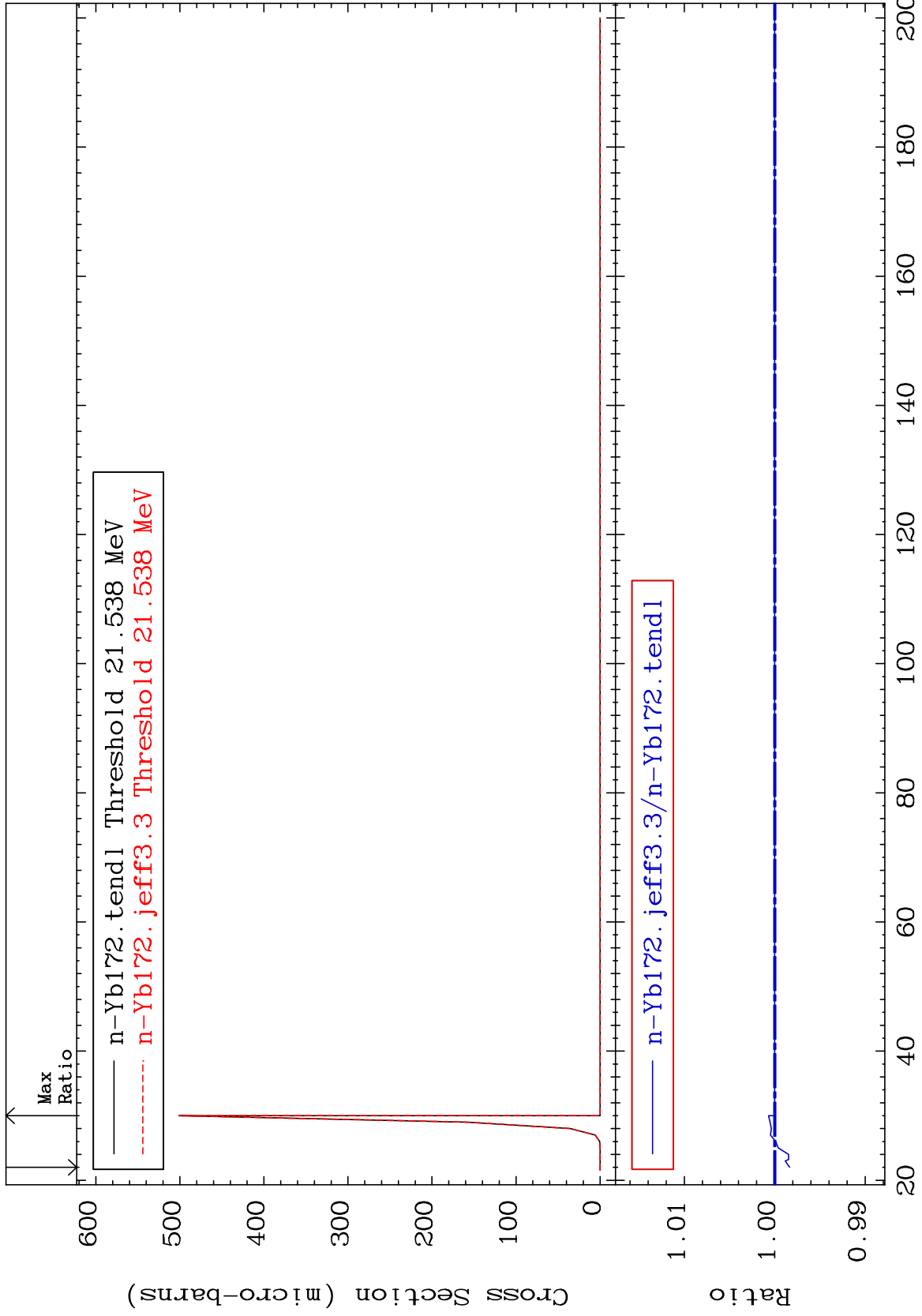
70-Yb-172
-0.514 To 0.048 %



MAT 7037

(n,3n) p
Cross Section

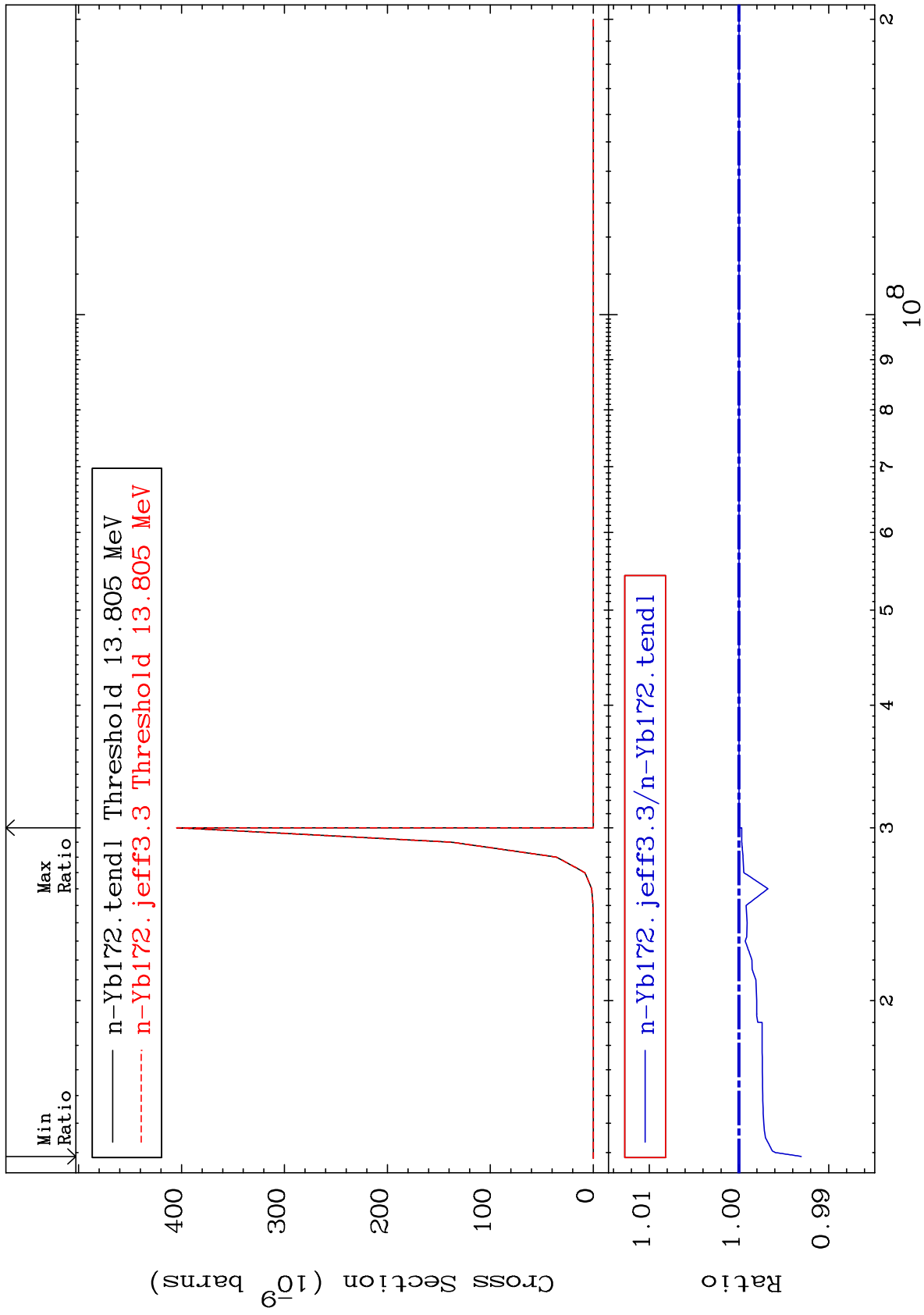
⁷⁰Yb-172
-0.164 To 0.069 %



MAT 7037

(n,2n) p
Cross Section

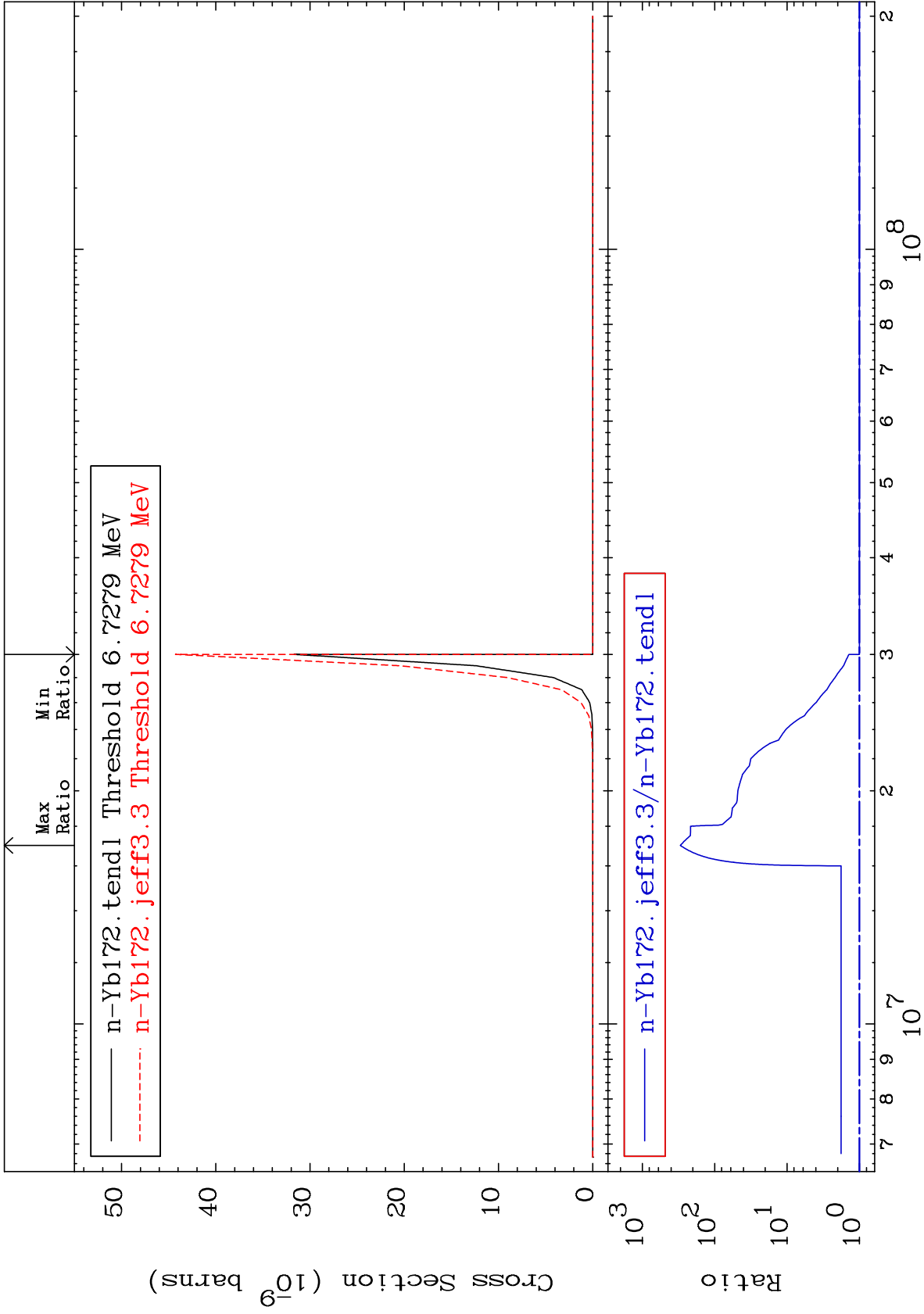
70-Yb-172
-0.696 To 0.000 %



MAT 7037

(n,n') p α
Cross Section

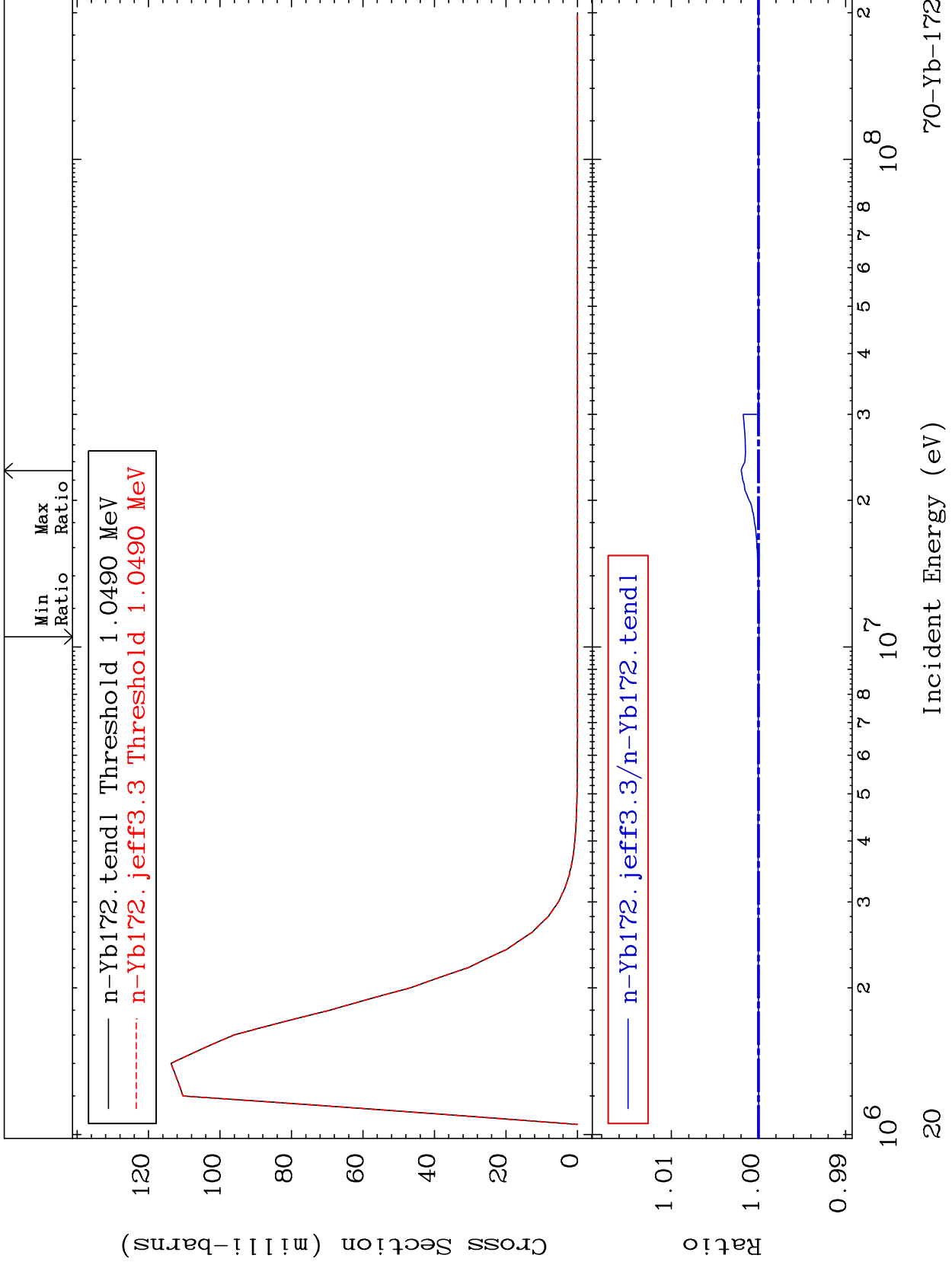
70-Yb-172
To 9999. %
0.000



MAT 7037

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

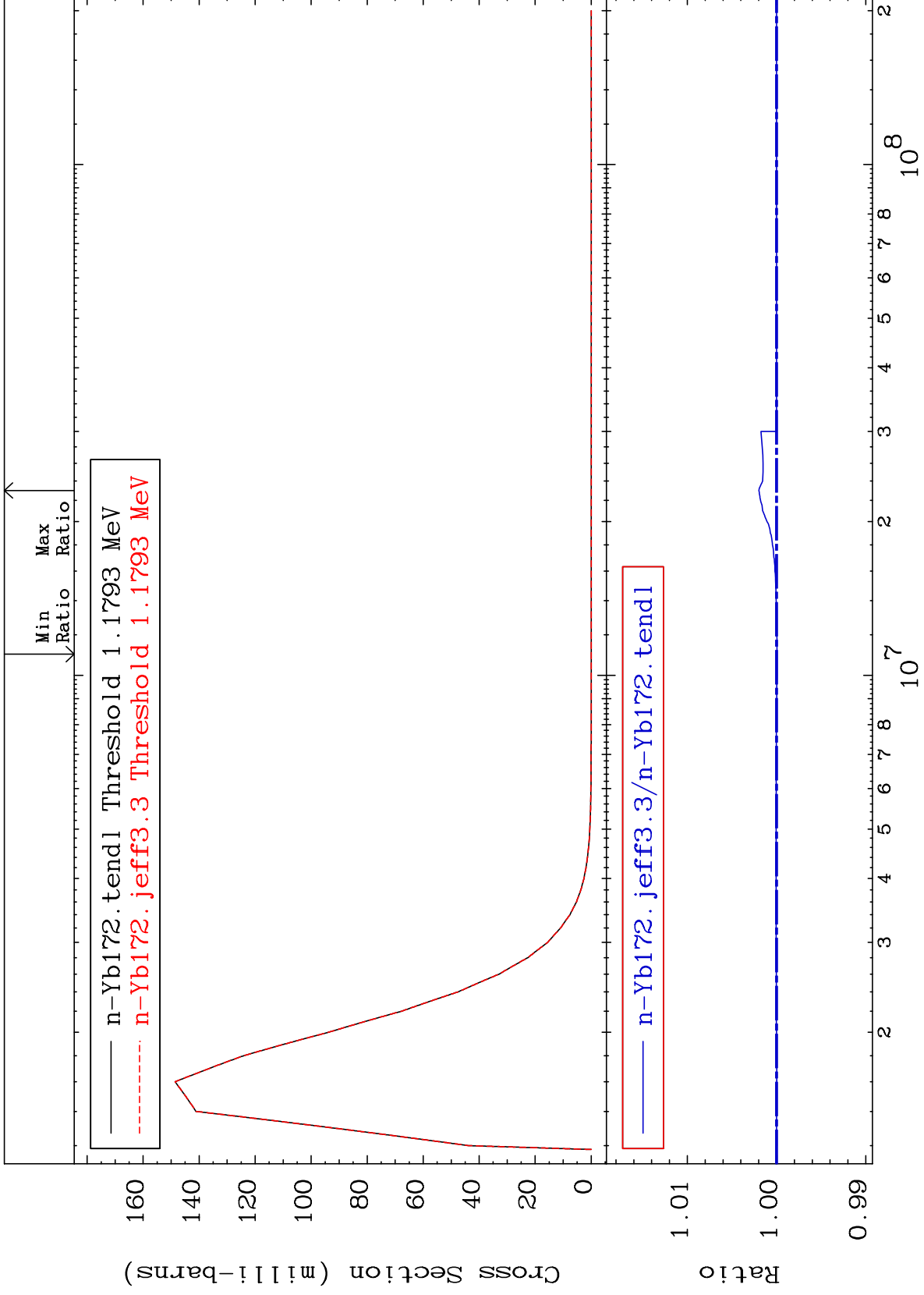
70-Yb-172
-0.004 To 0.198 %



MAT 7037

MT= 58 (n,n') Level
Cross Section

70-Yb-172
-0.005 To 0.198 %



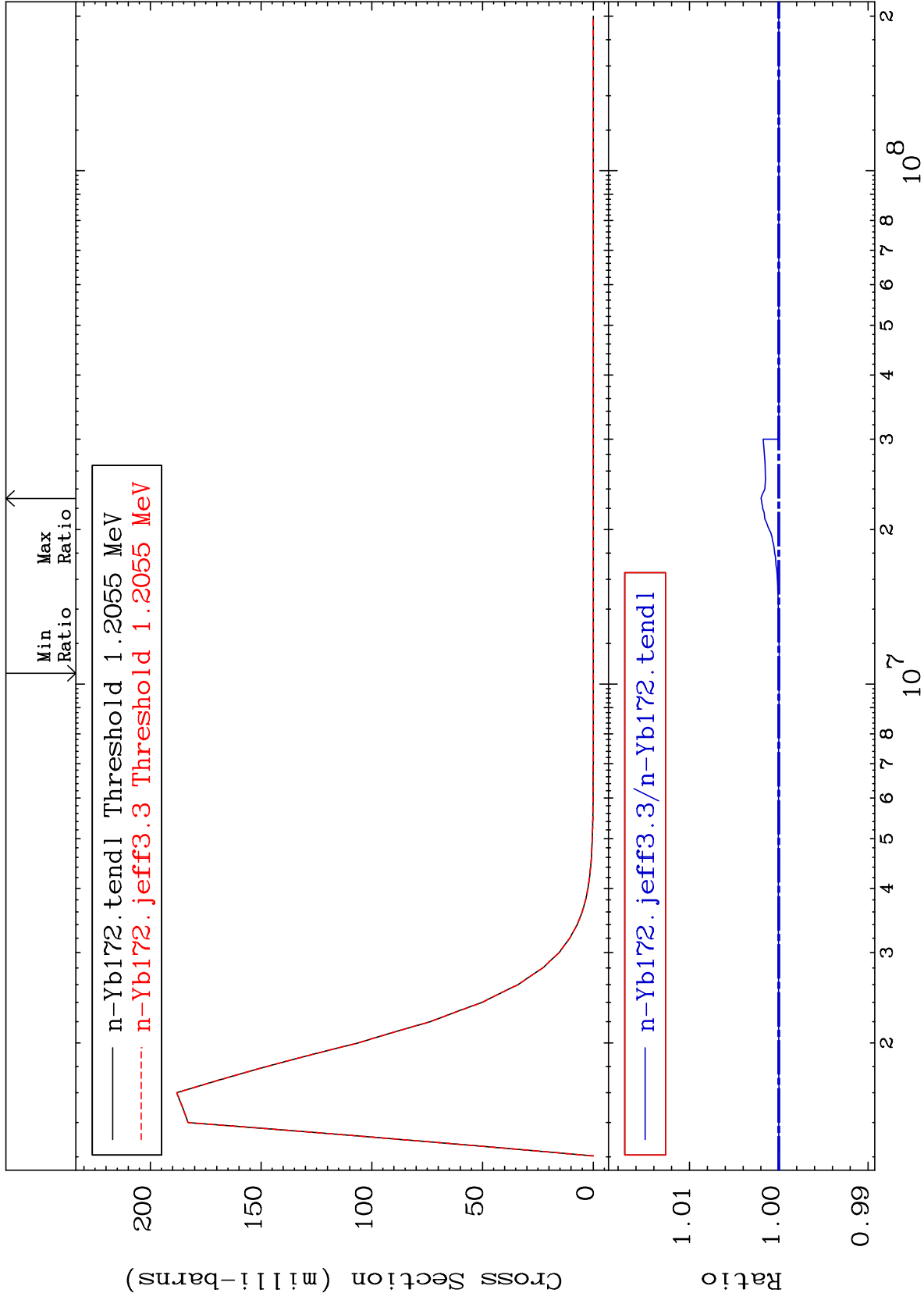
MAT 7037

MT= 59 (n,n') Level

70-Yb-172

-0.004 To 0.198 %

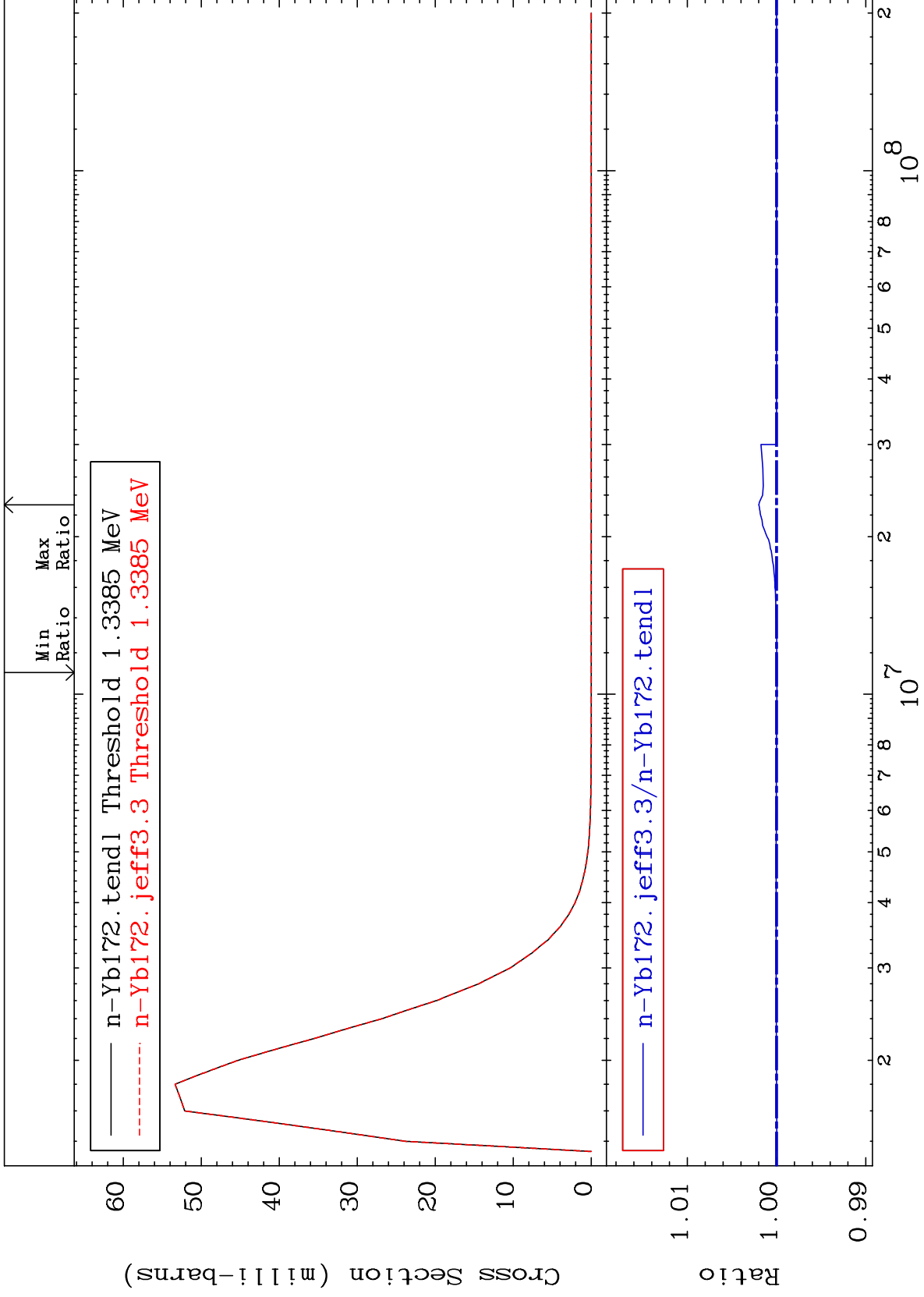
Cross Section



MAT 7037

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

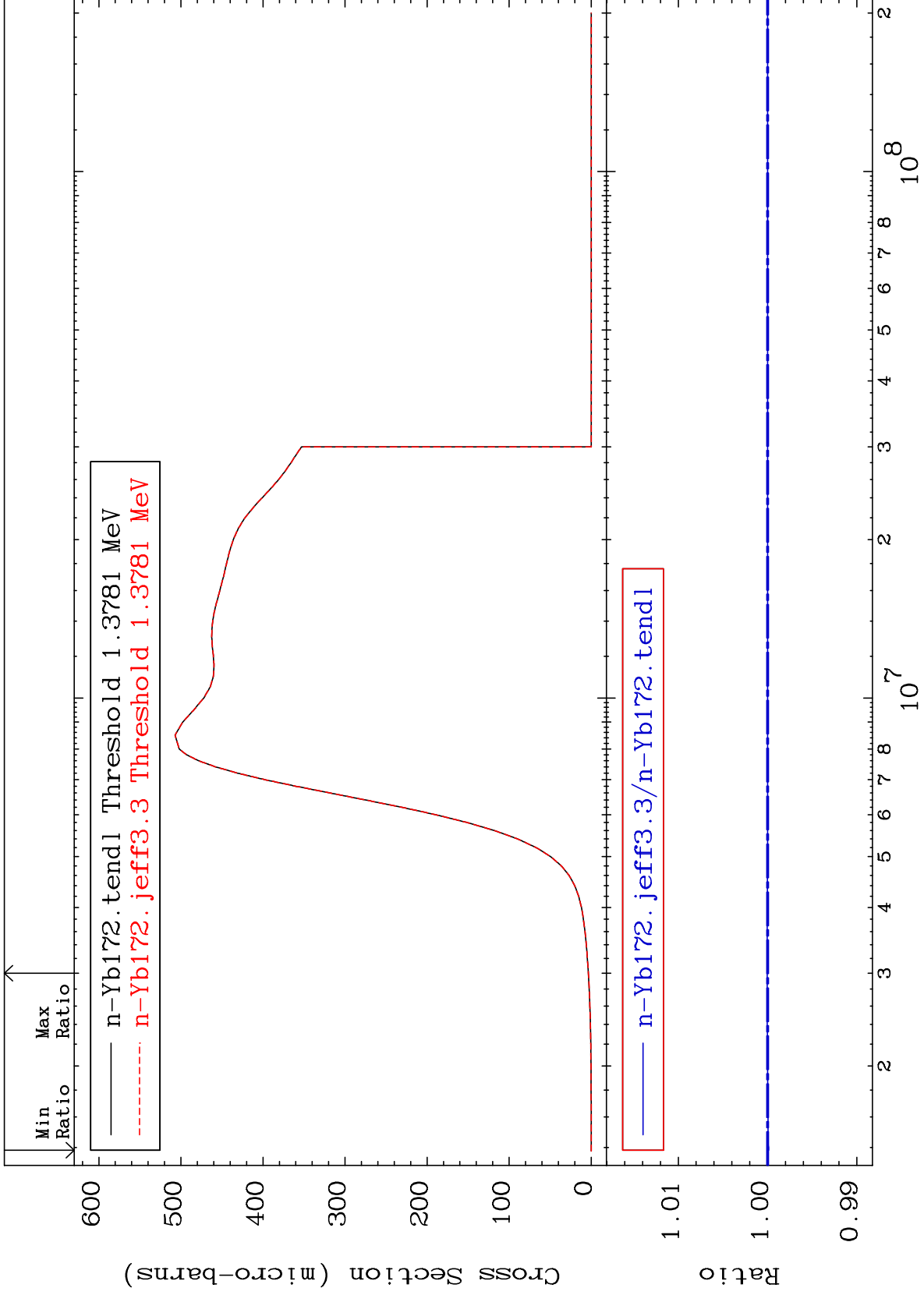
70-Yb-172
-0.004 To 0.198 %



MAT 7037

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

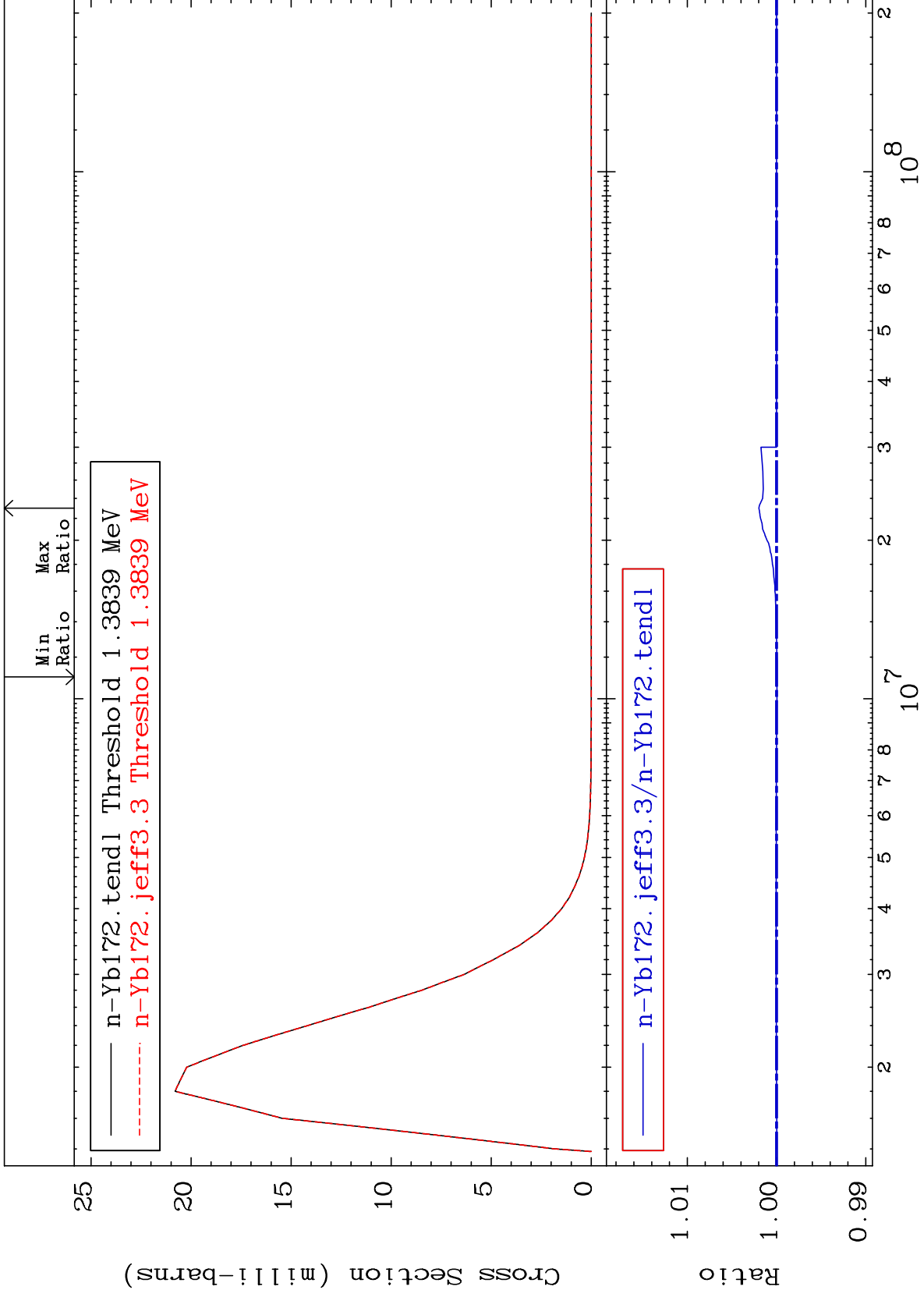
70-Yb-172
-0.013 To 0.005 %



MAT 7037

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

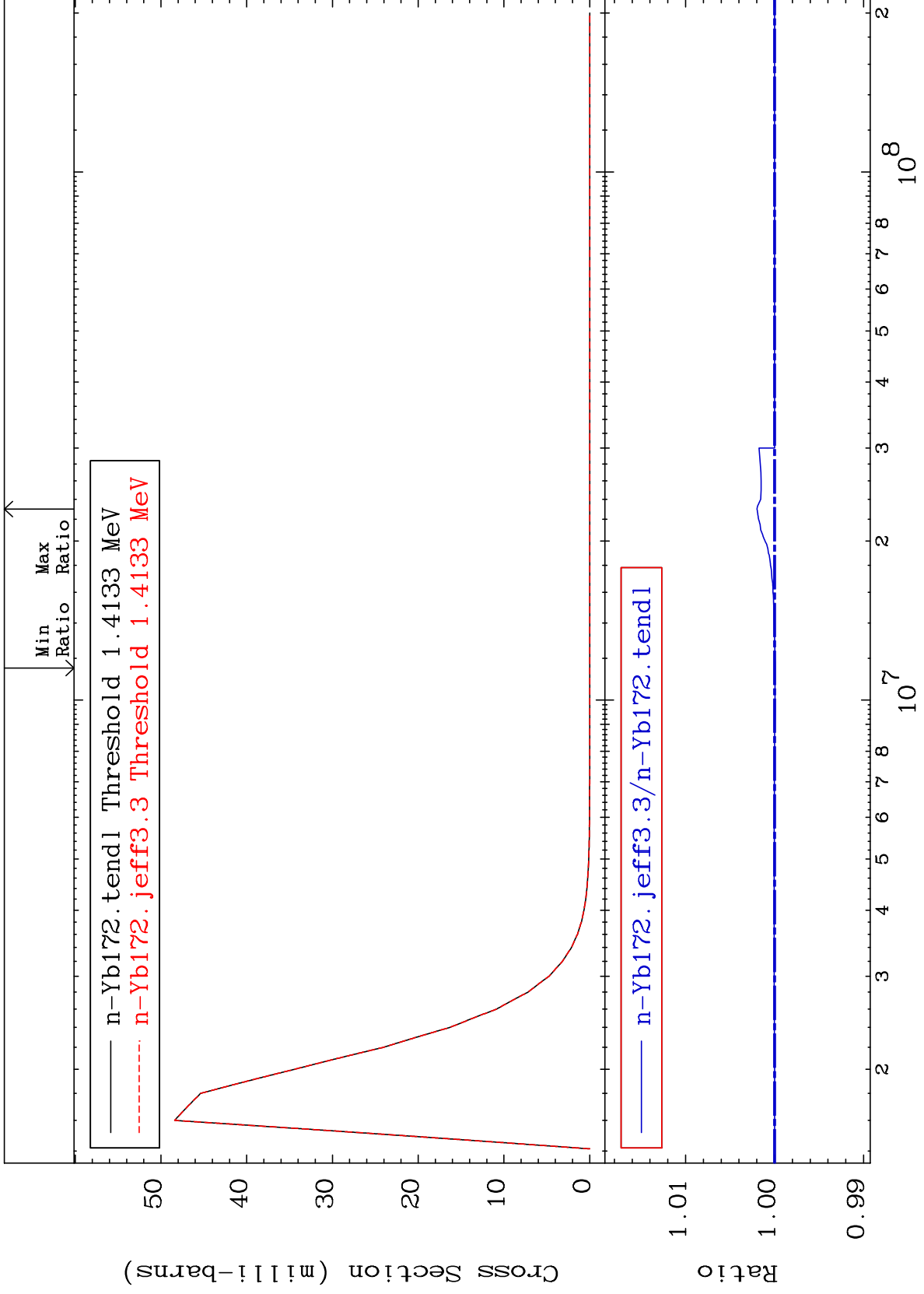
70-Yb-172
-0.004 To 0.198 %



MAT 7037

MT= 67 (n, n') Level
Cross Section

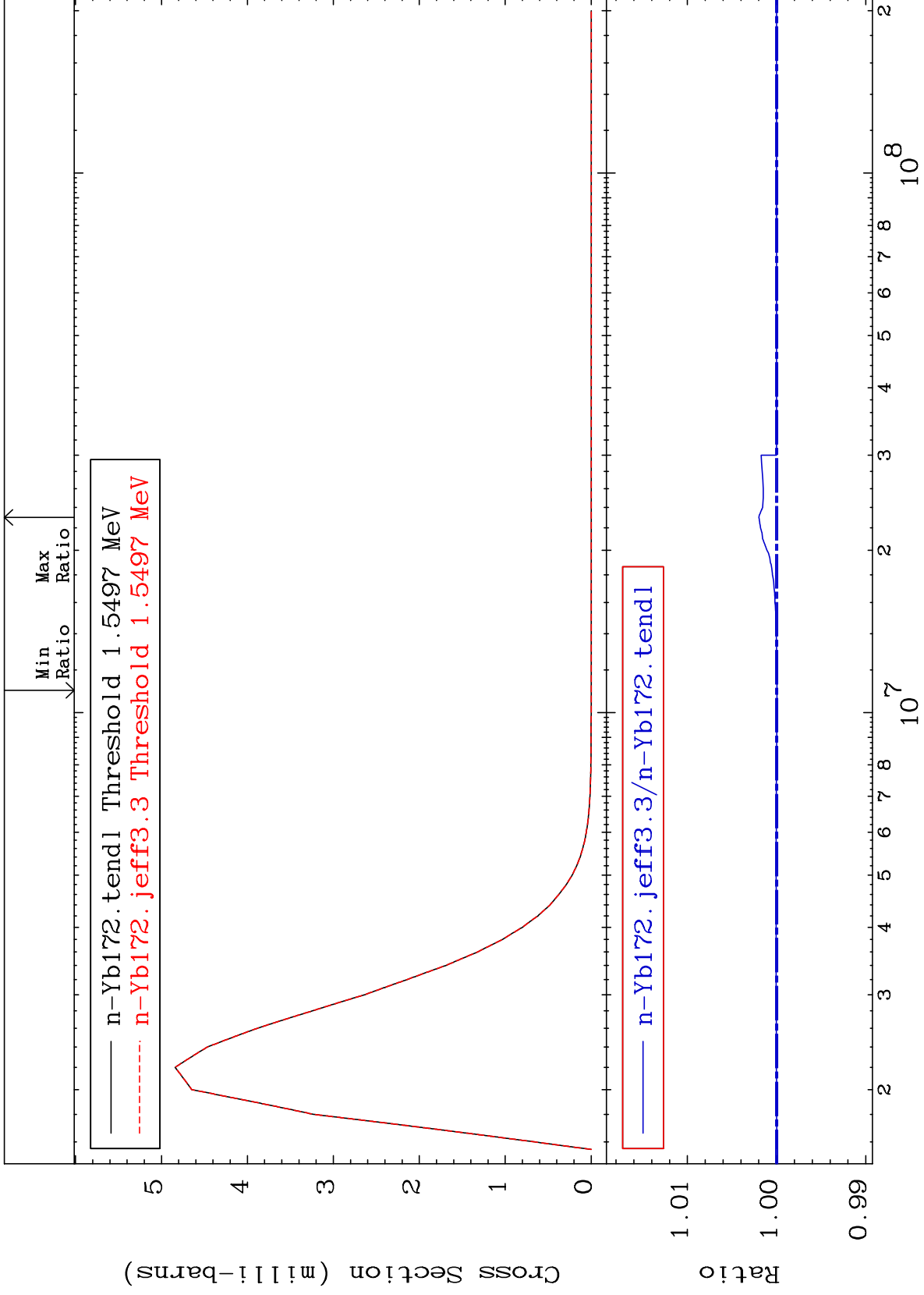
70-Yb-172
-0.004 To 0.197 %



MAT 7037

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

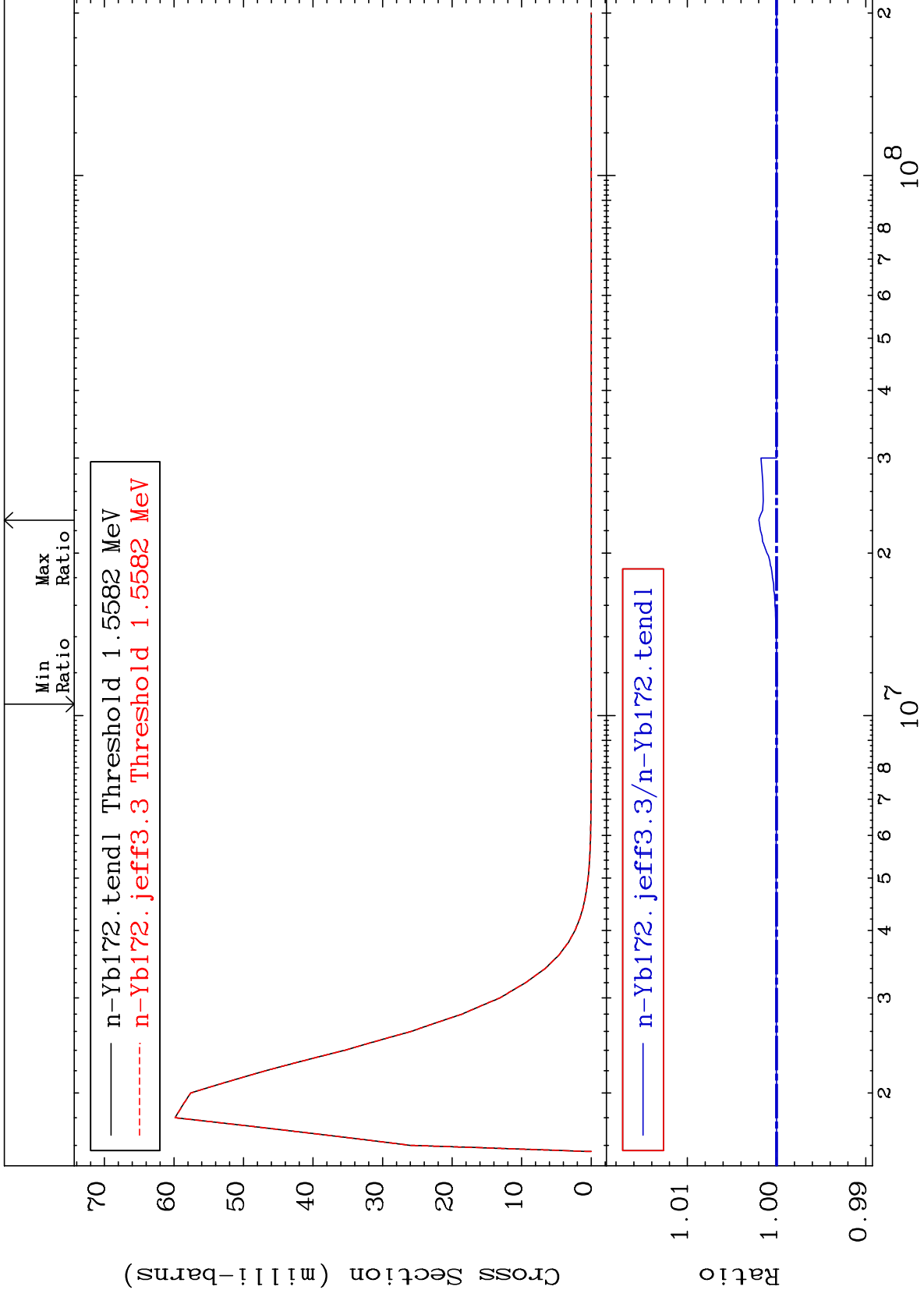
70-Yb-172
-0.004 To 0.198 %



MAT 7037

MT= 74 (n, n') Level
Cross Section

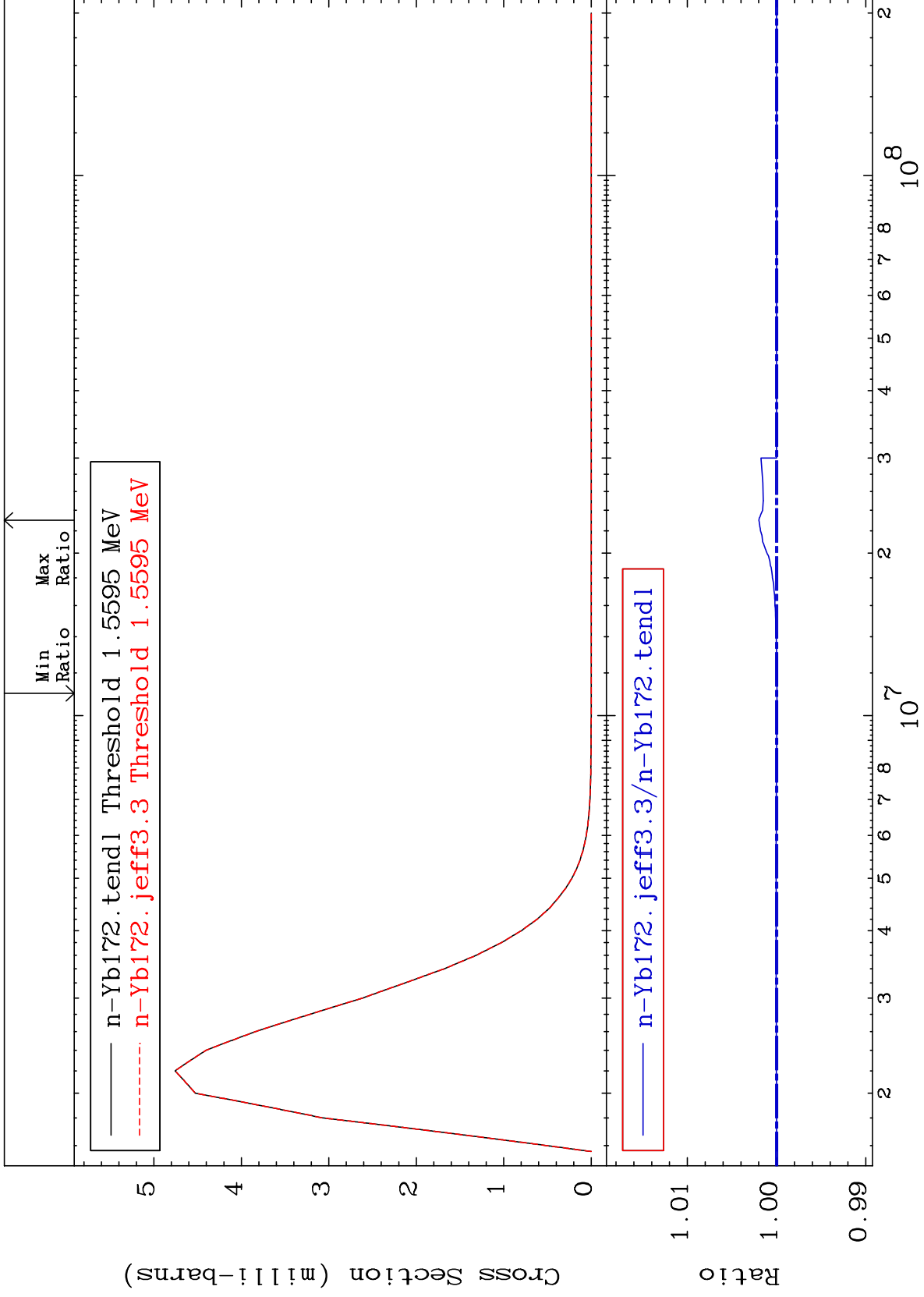
70-Yb-172
-0.004 To 0.198 %



MAT 7037

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

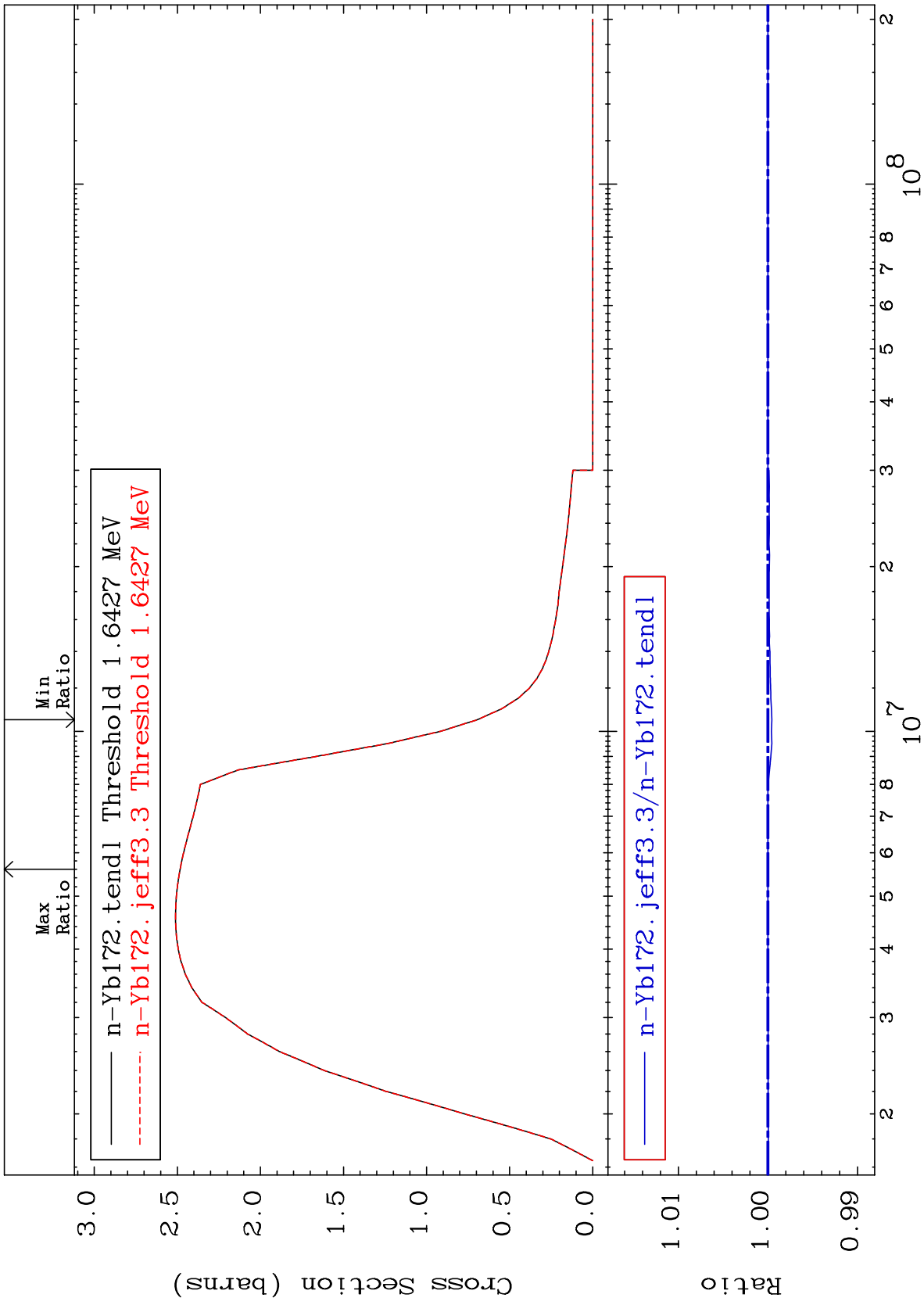
70-Yb-172
-0.004 To 0.198 %



MAT 7037

(n, n') Continuum
Cross Section

70-Yb-172
-0.045 To 0.000 %

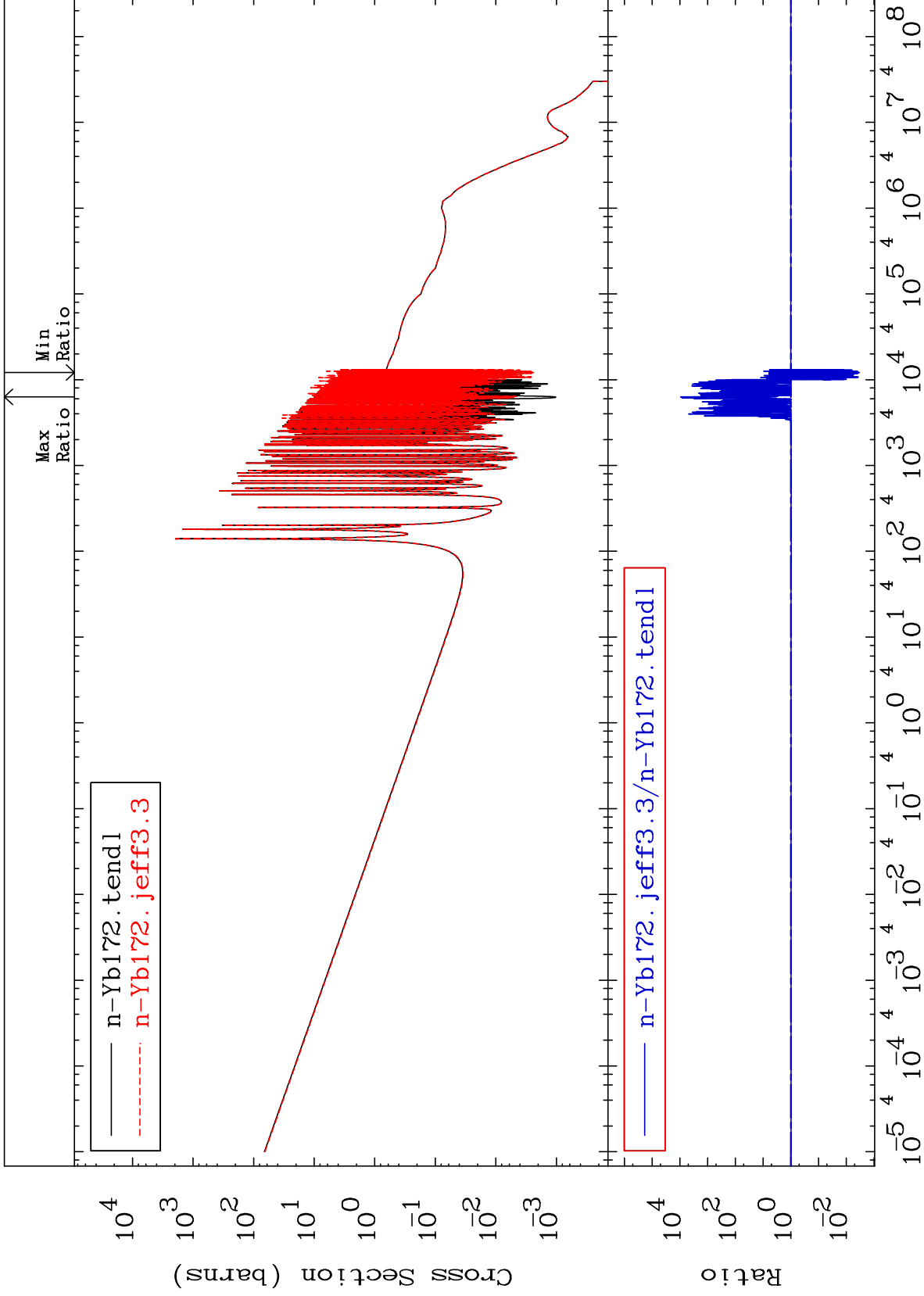


MAT 7037

(n, γ)

70-Yb-172
-99.66 To 9999. %

Cross Section



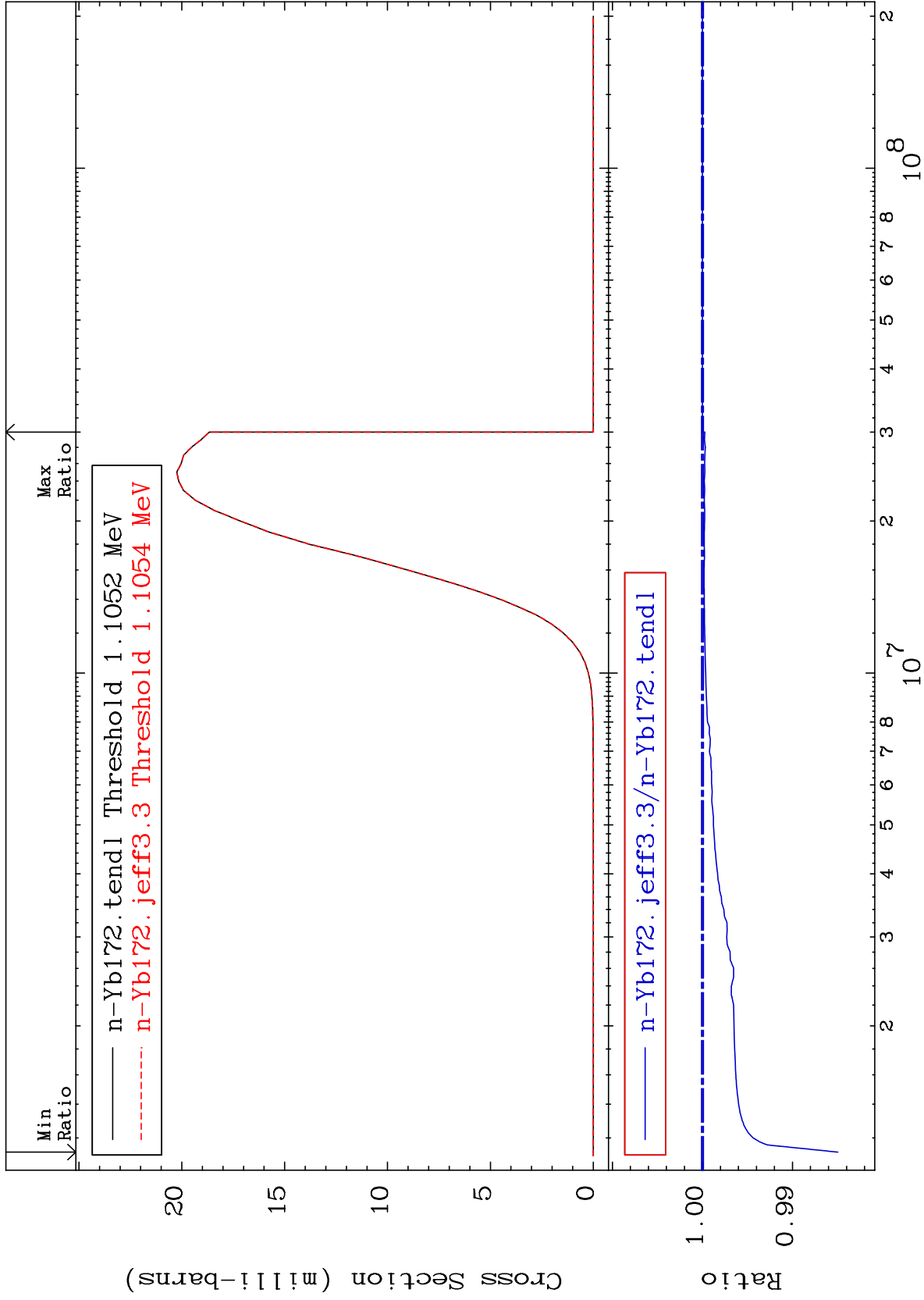
MAT 7037

70-Yb-172

(n,p)

Cross Section

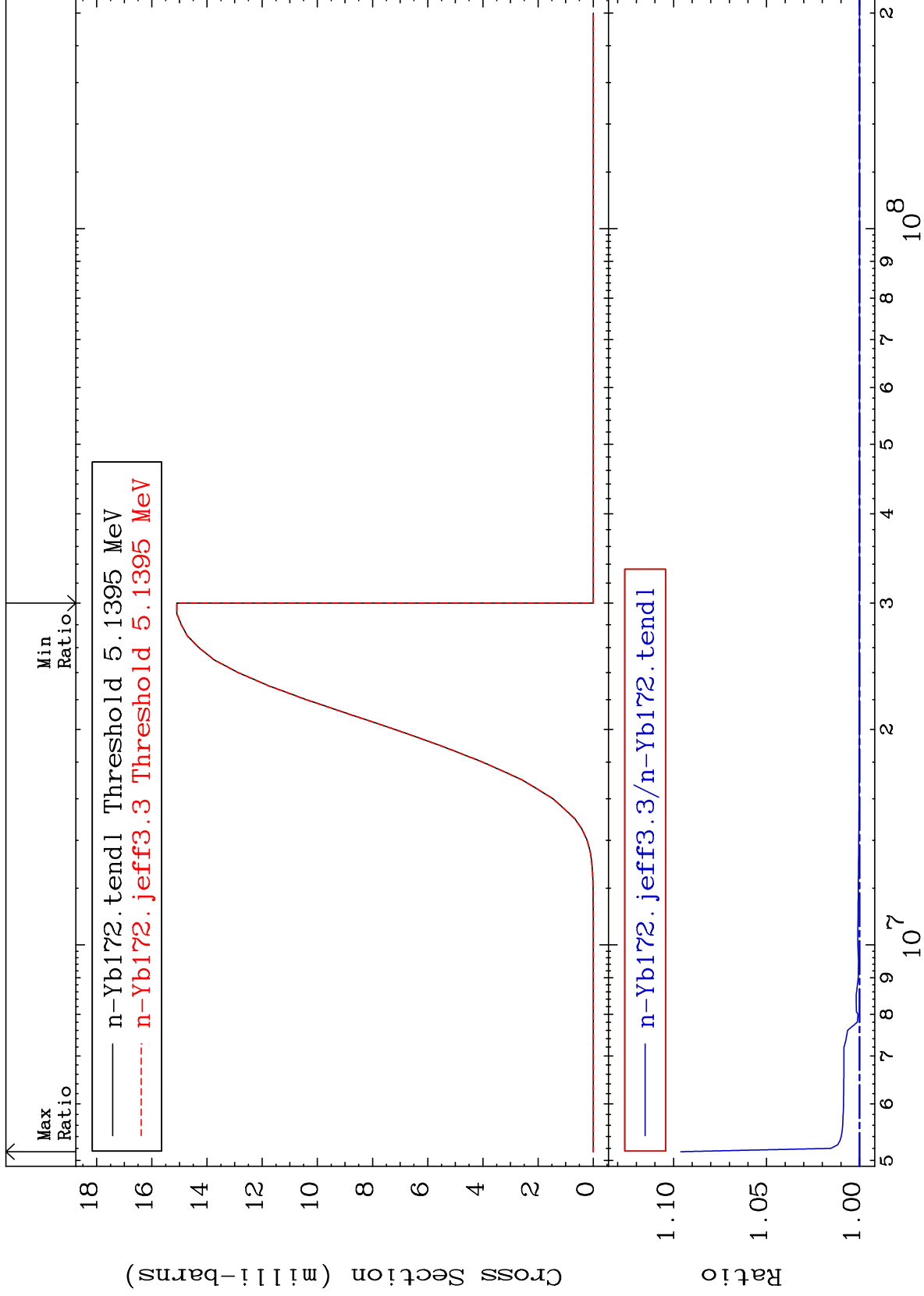
-1.504 To 0.000 %

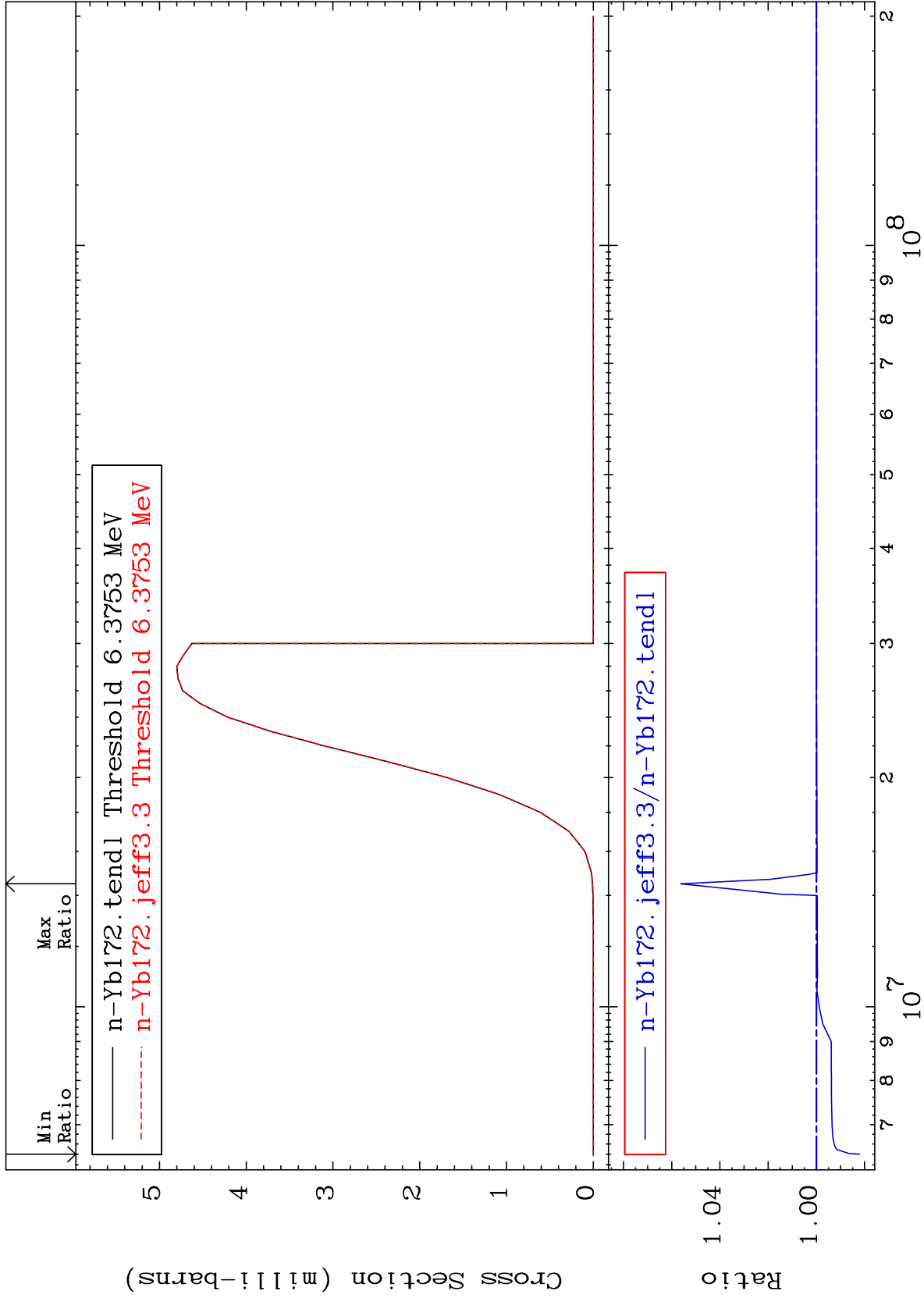


MAT 7037

(n, d)

70-Yb-172
Cross Section
0.000 To 9.612 %



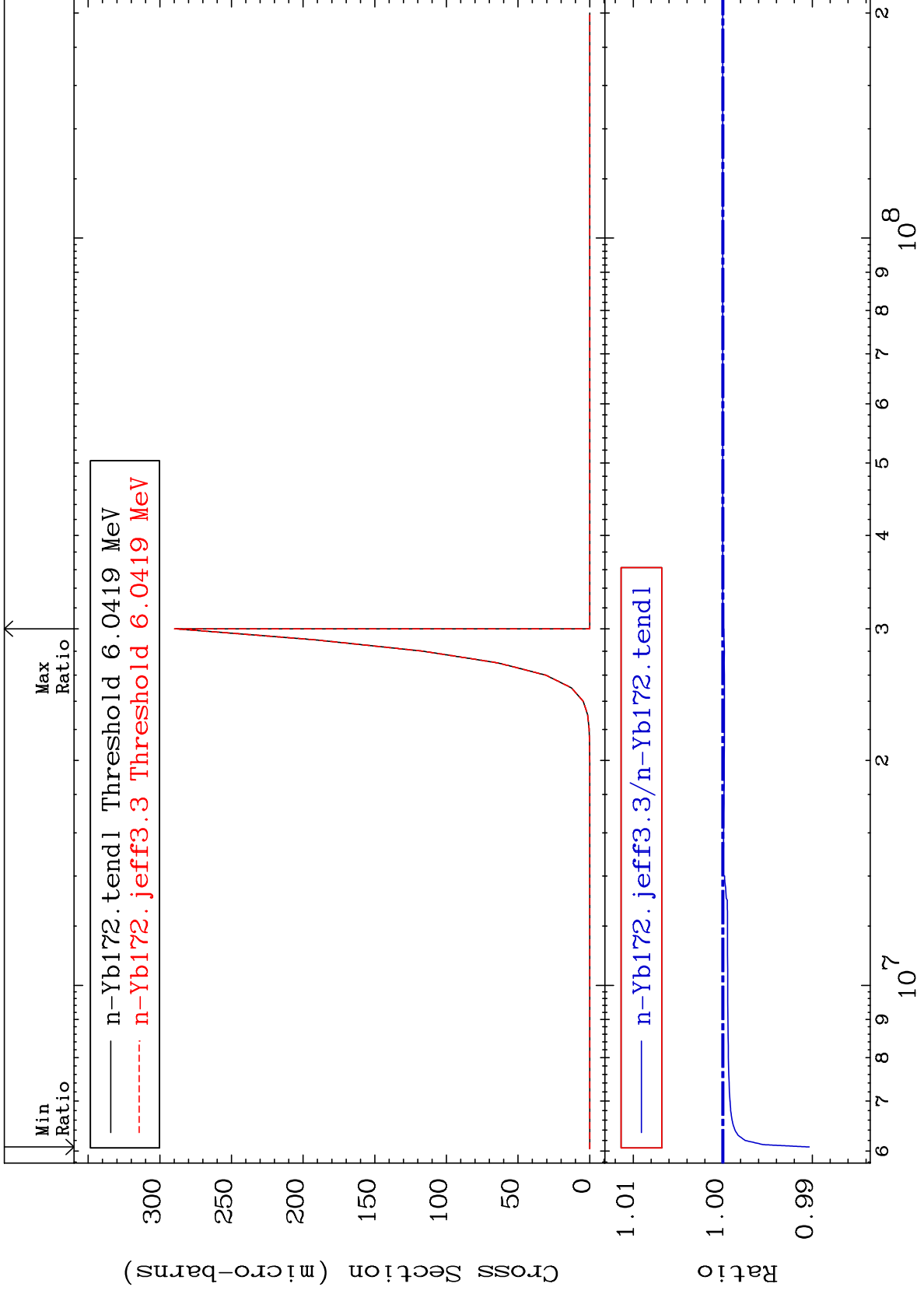


MAT 7037

(n, He-3)

70-Yb-172
-0.966 To 0.000 %

Cross Section

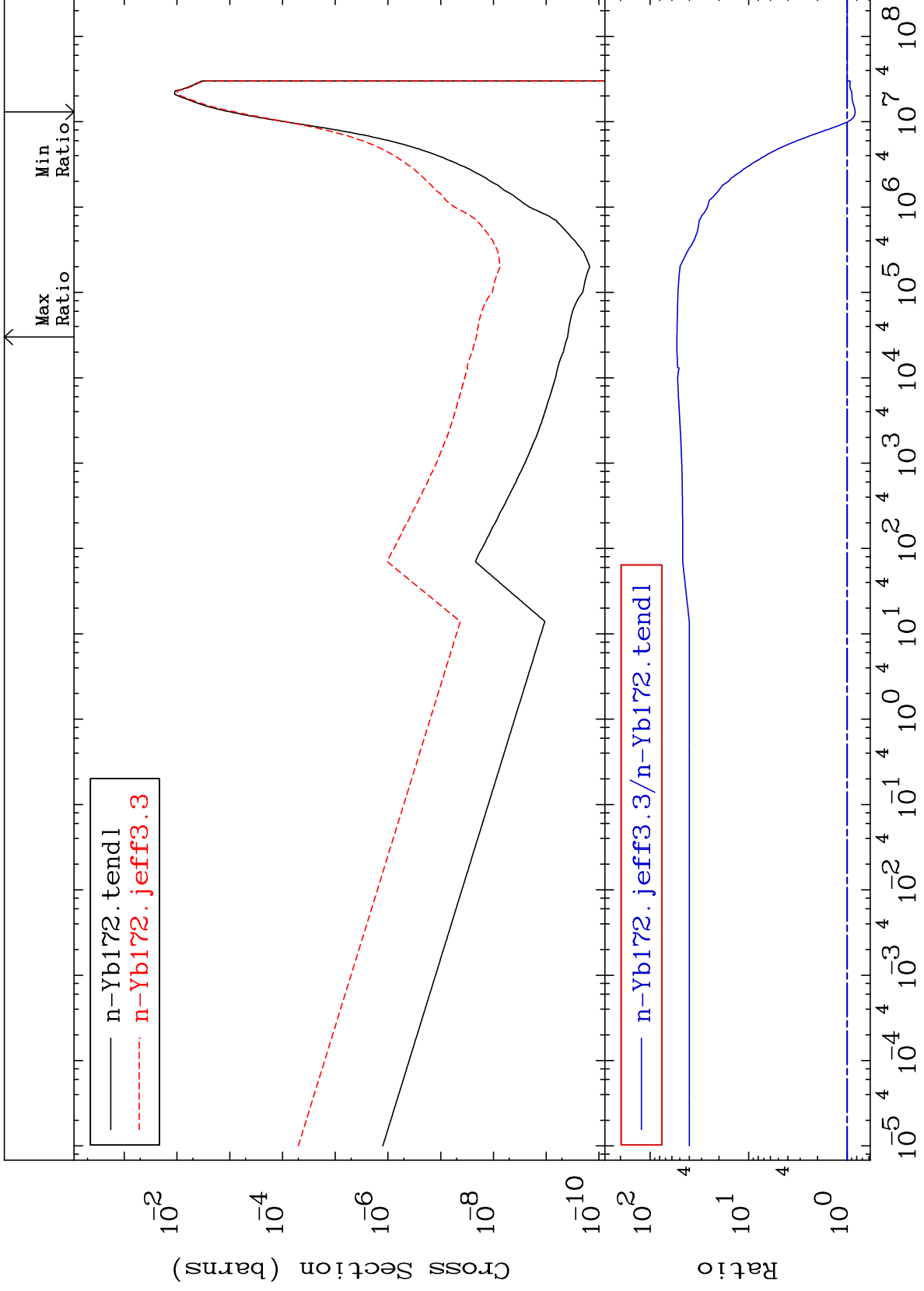


MAT 7037

(n, α)

70-Yb-172
-16.99 To 5246. %

Cross Section

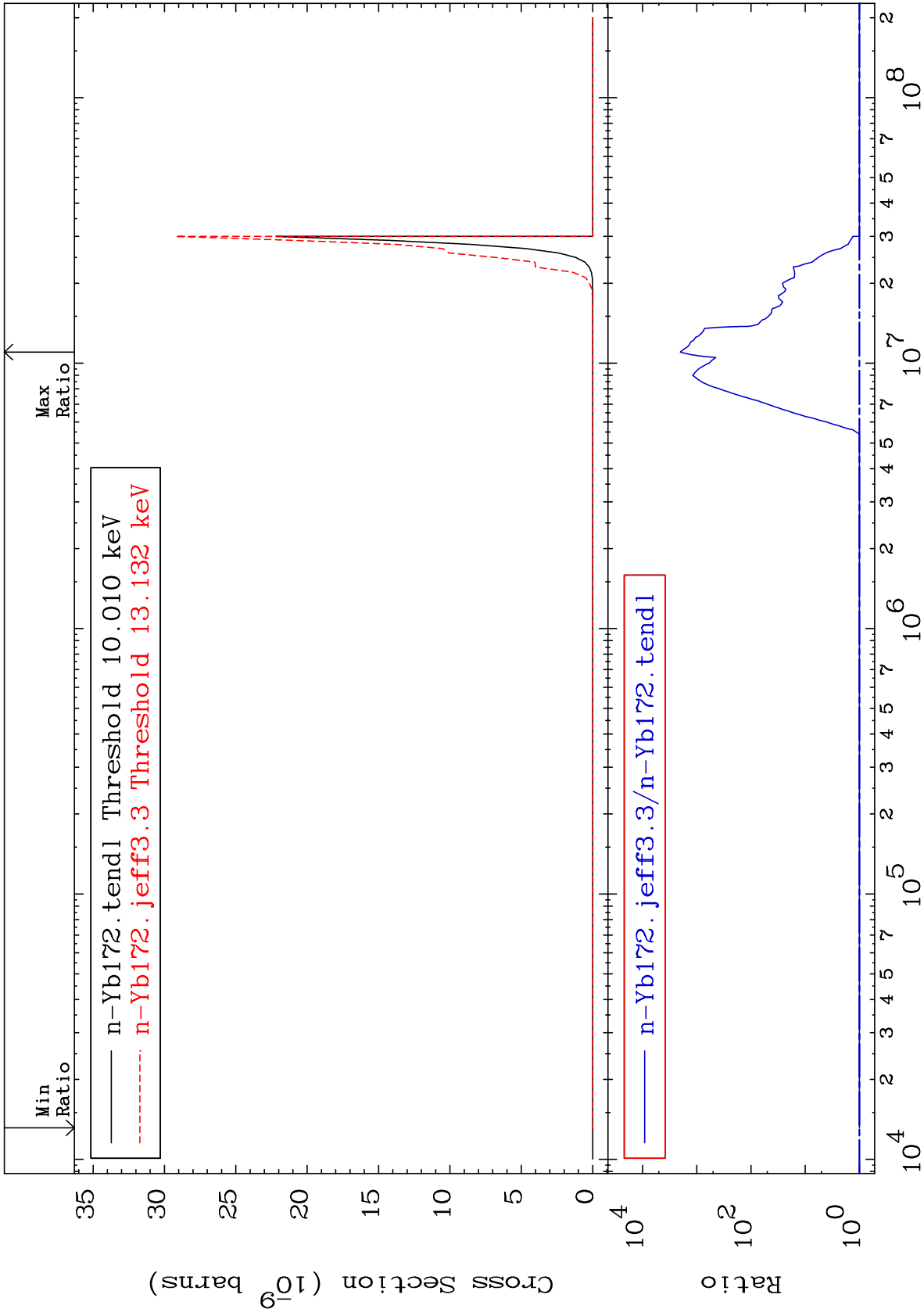


MAT 7037

(n,2α)

70-Yb-172
To 9999. %

Cross Section



37

70-Yb-172

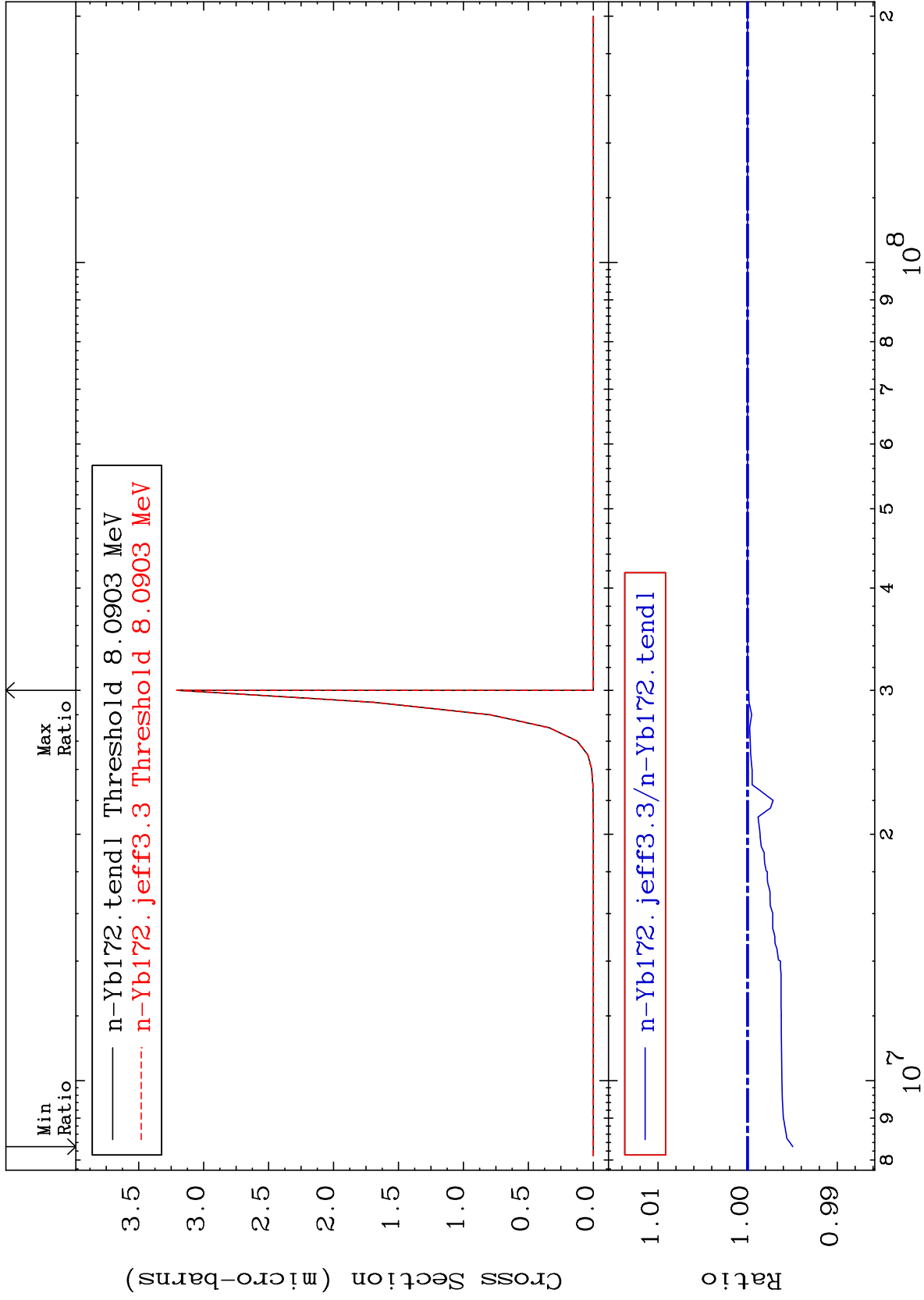
MAT 7037

(n,2p)

70-Yb-172

Cross Section

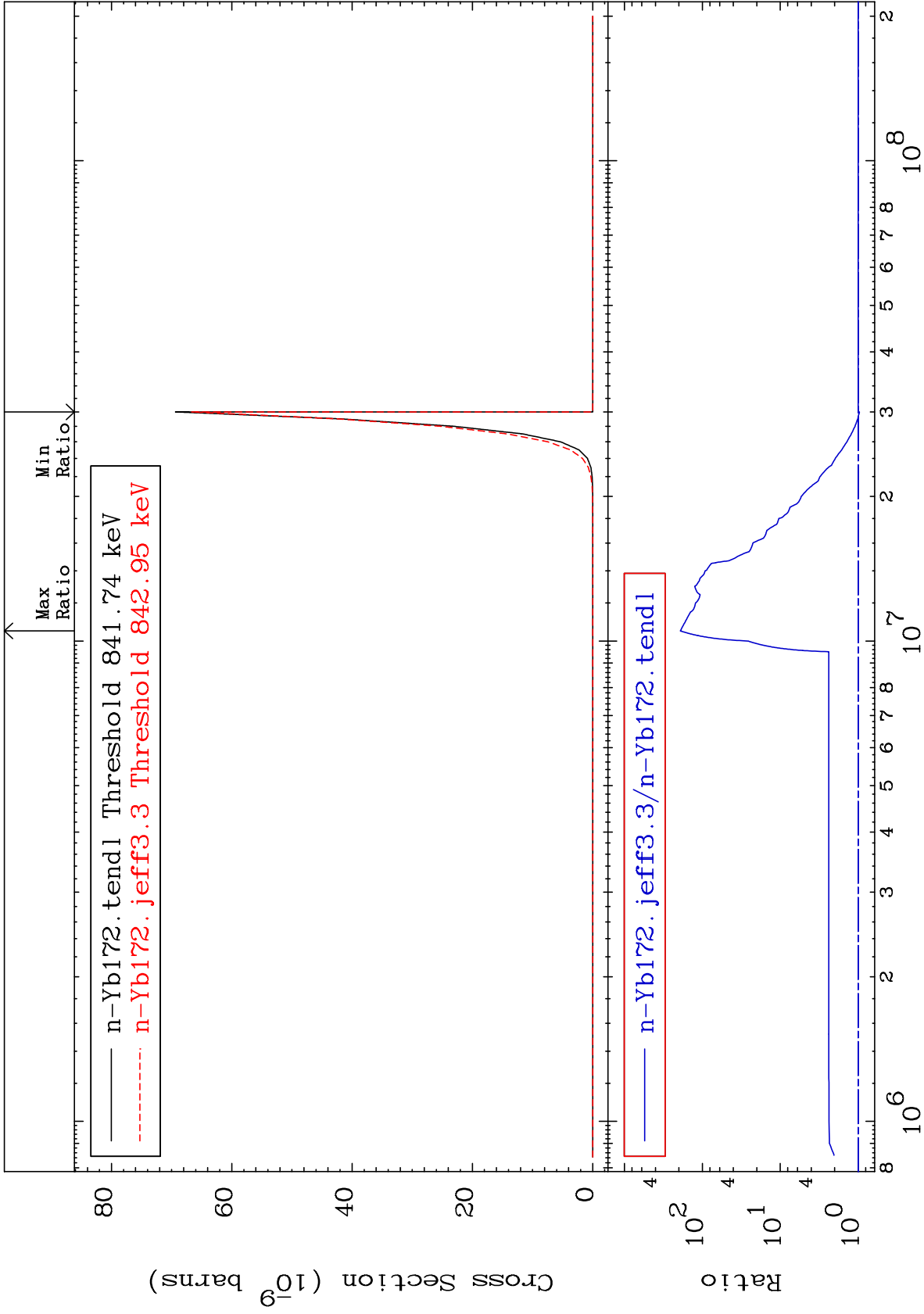
-0.504 To 0.000 %



MAT 7037

(n, p) α
Cross Section

70-Yb-172
-3.849 To 9999. %



39

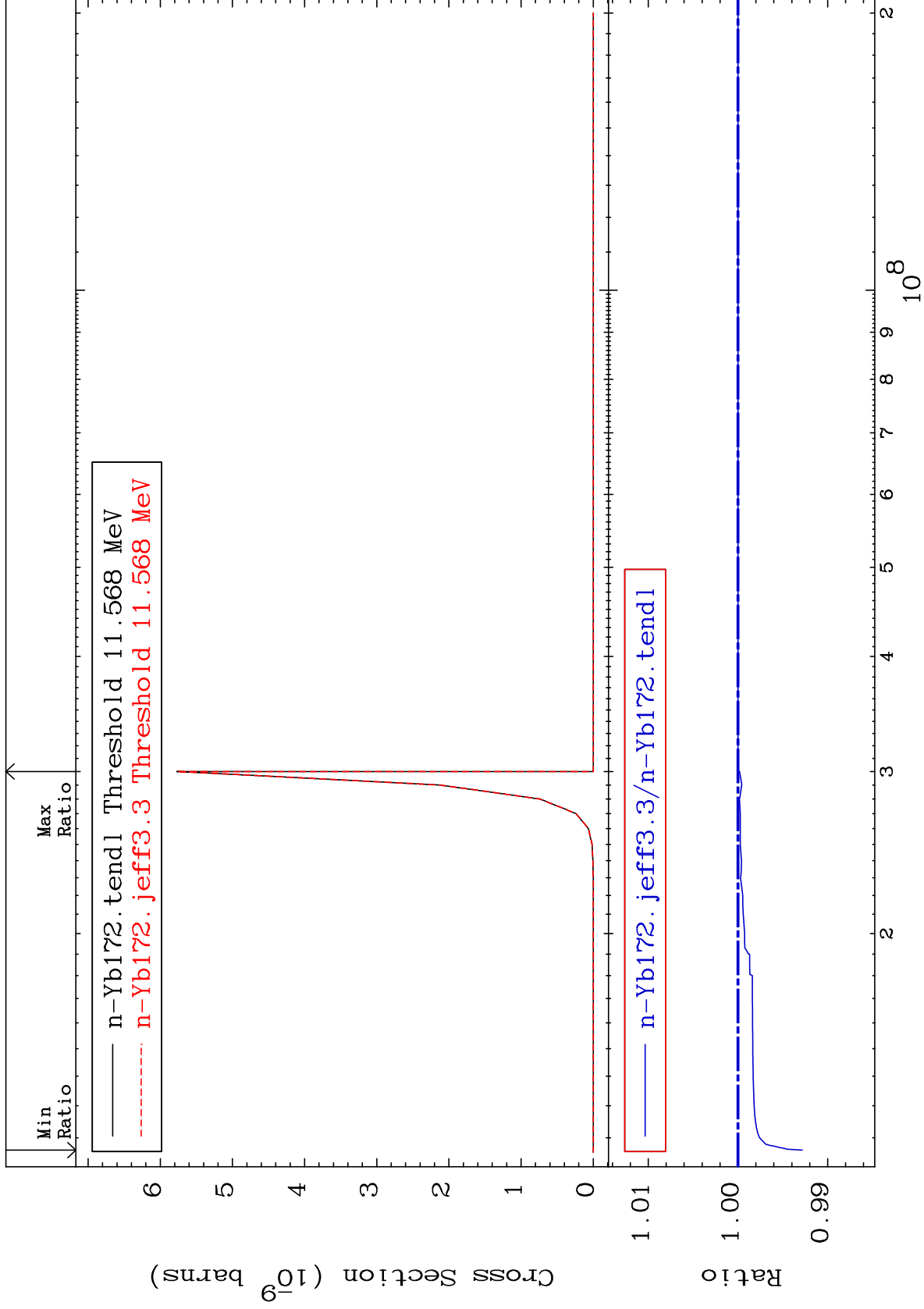
Incident Energy (eV)

70-Yb-172

MAT 7037

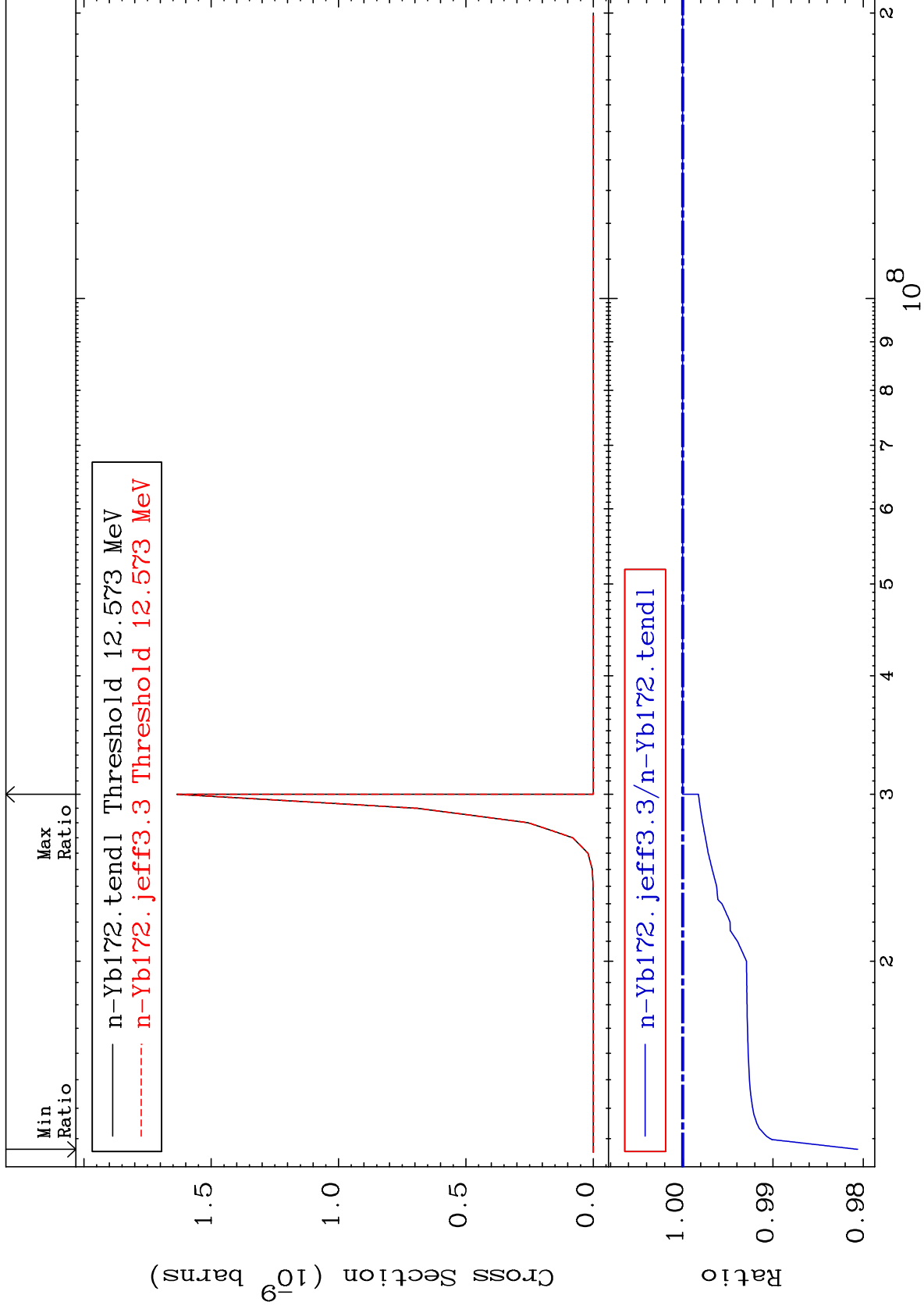
(n, p) d
Cross Section

70-Yb-172
-0.718 To 0.000 %



Cross Section

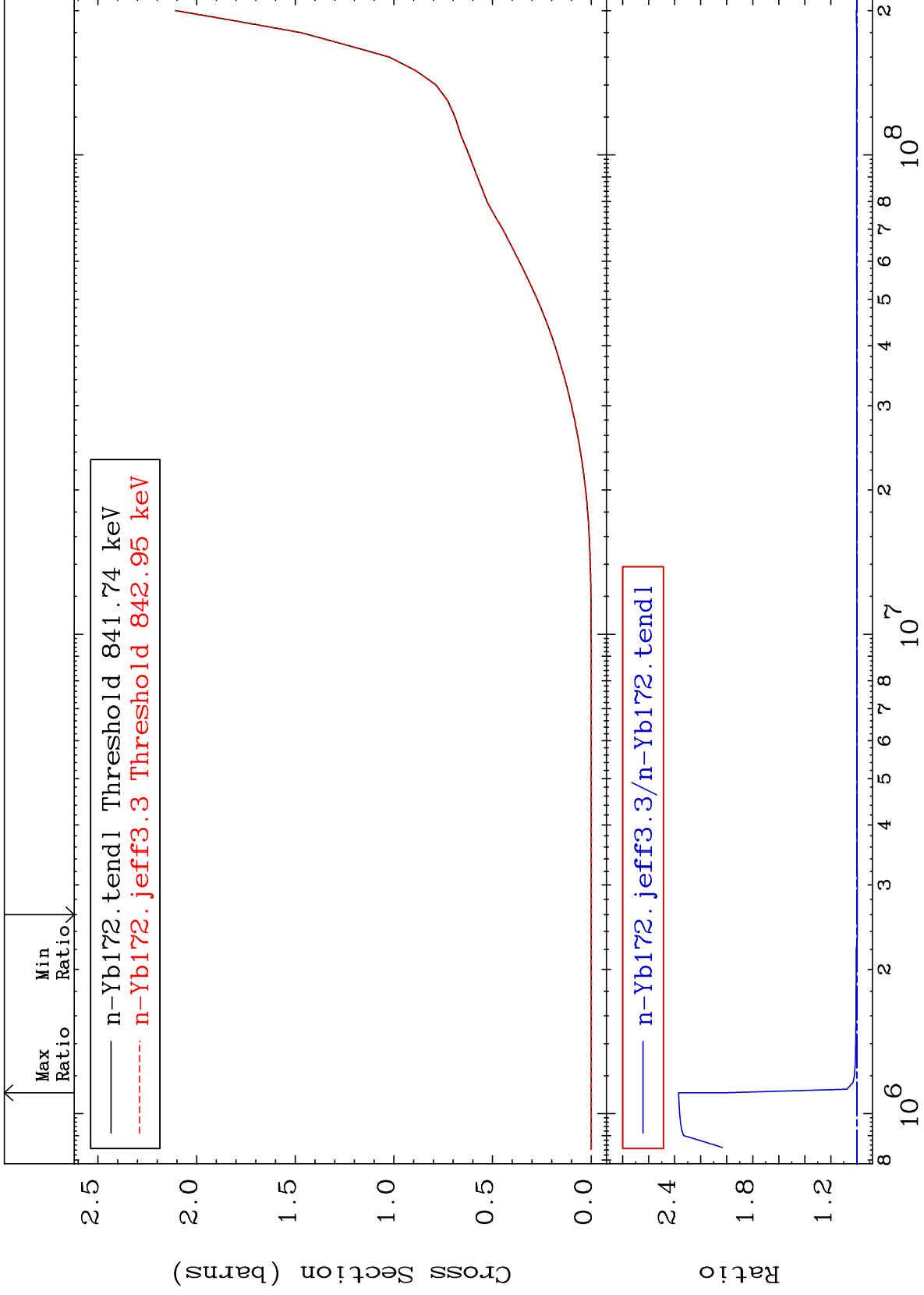
-1.938 To 0.000 %



MAT 7037

Hydrogen Production
Cross Section

70-Yb-172
-0.346 To 137.0 %



42

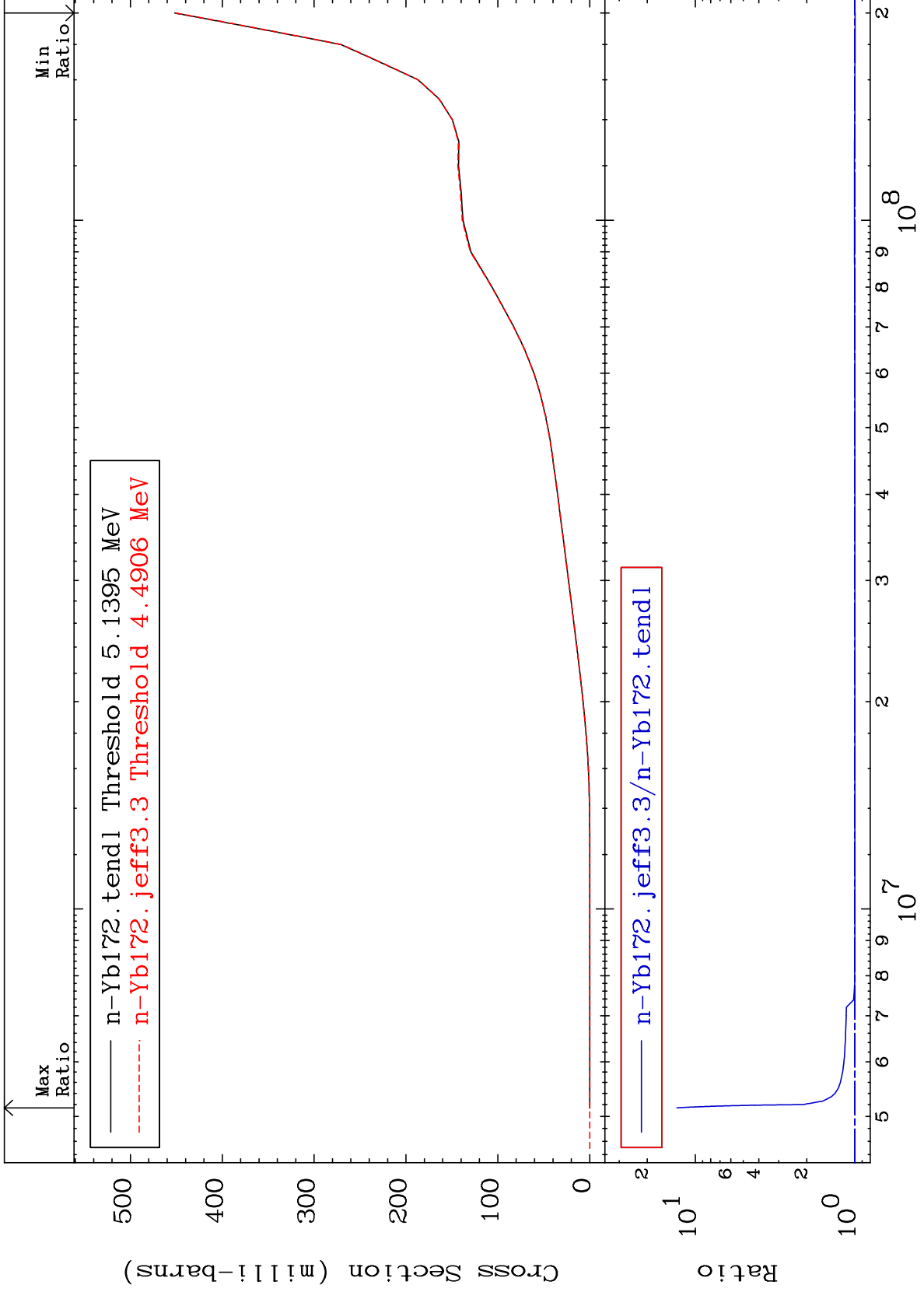
Incident Energy (eV)

70-Yb-172

MAT 7037

Deuterium Production
Cross Section

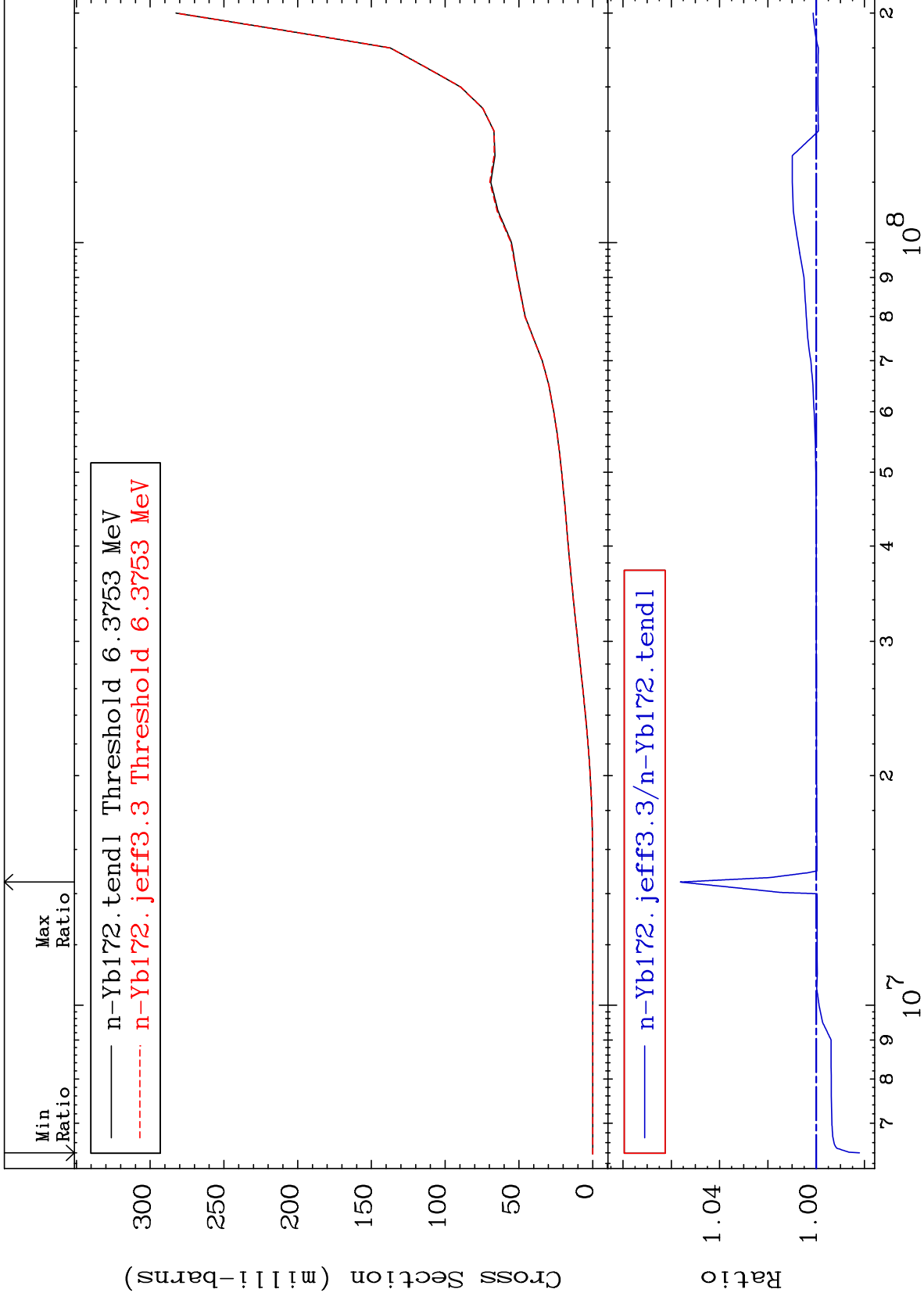
70-Yb-172
-0.350 To 1204. %



MAT 7037

Tritium Production
Cross Section

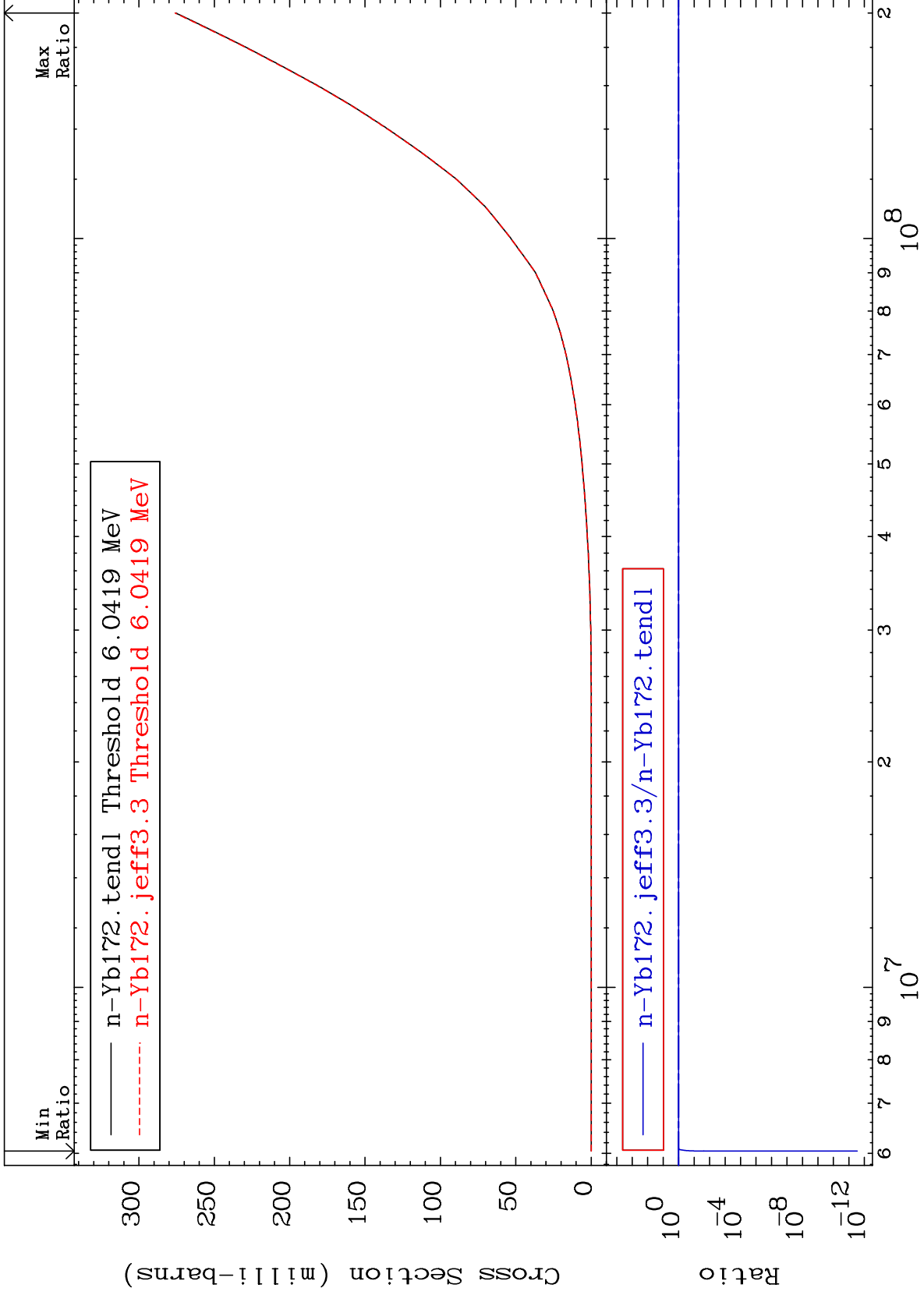
70-Yb-172
-1.789 To 5.623 %



MAT 7037

He-3 Production
Cross Section

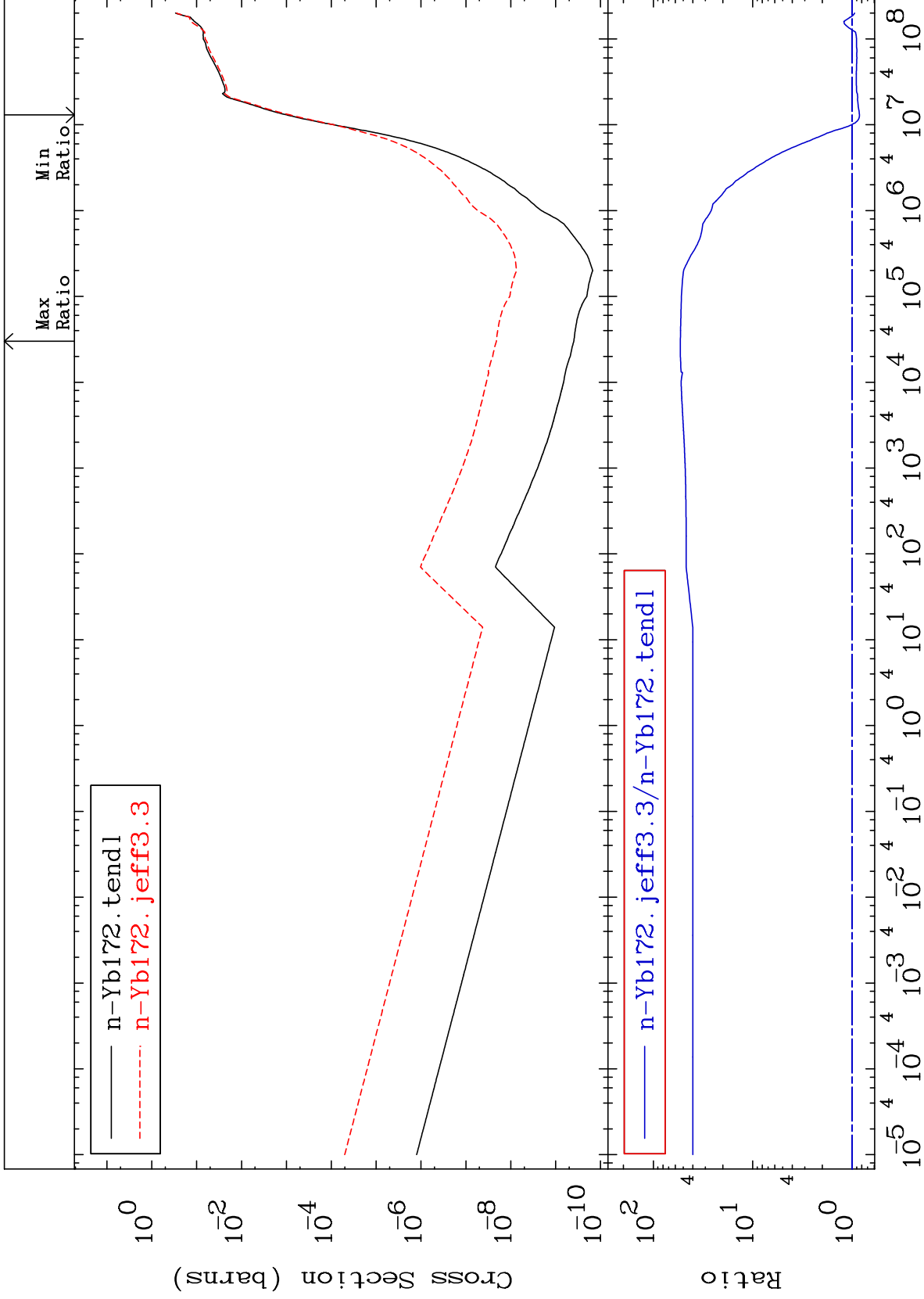
70-Yb-172
-100.0 To 0.207 %

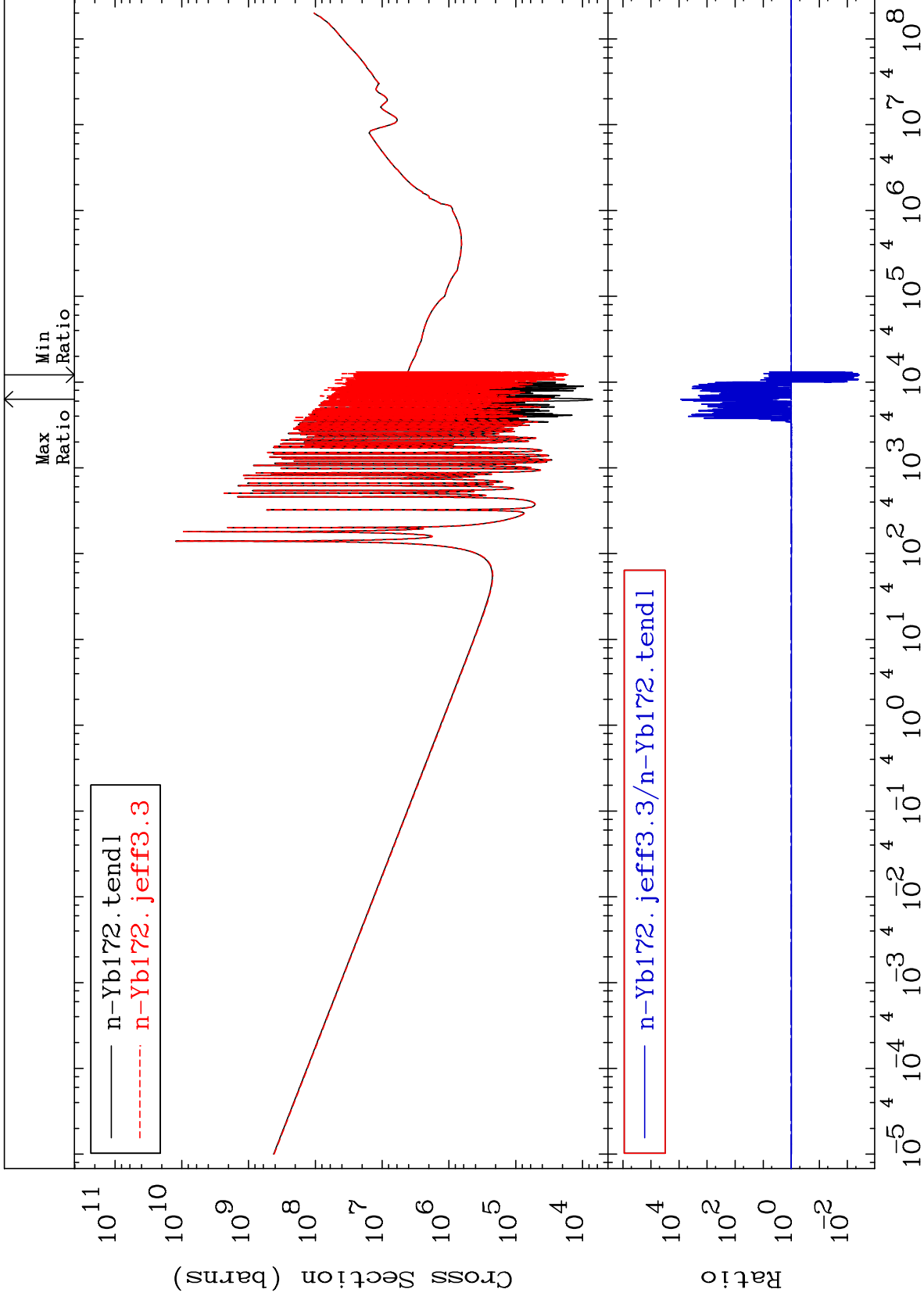


MAT 7037

He-4 Production
Cross Section

70-Yb-172
-15.55 To 5246. %

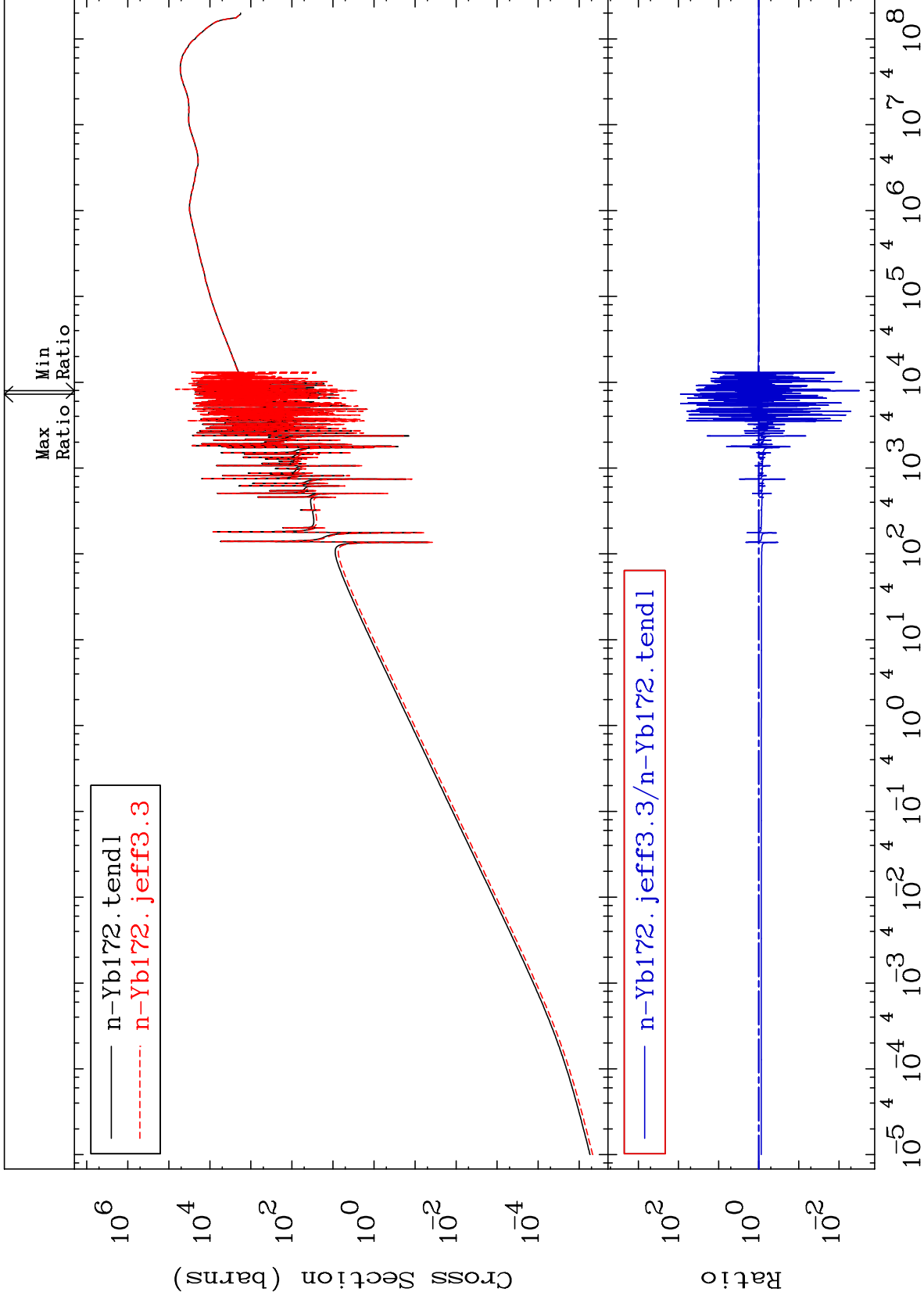


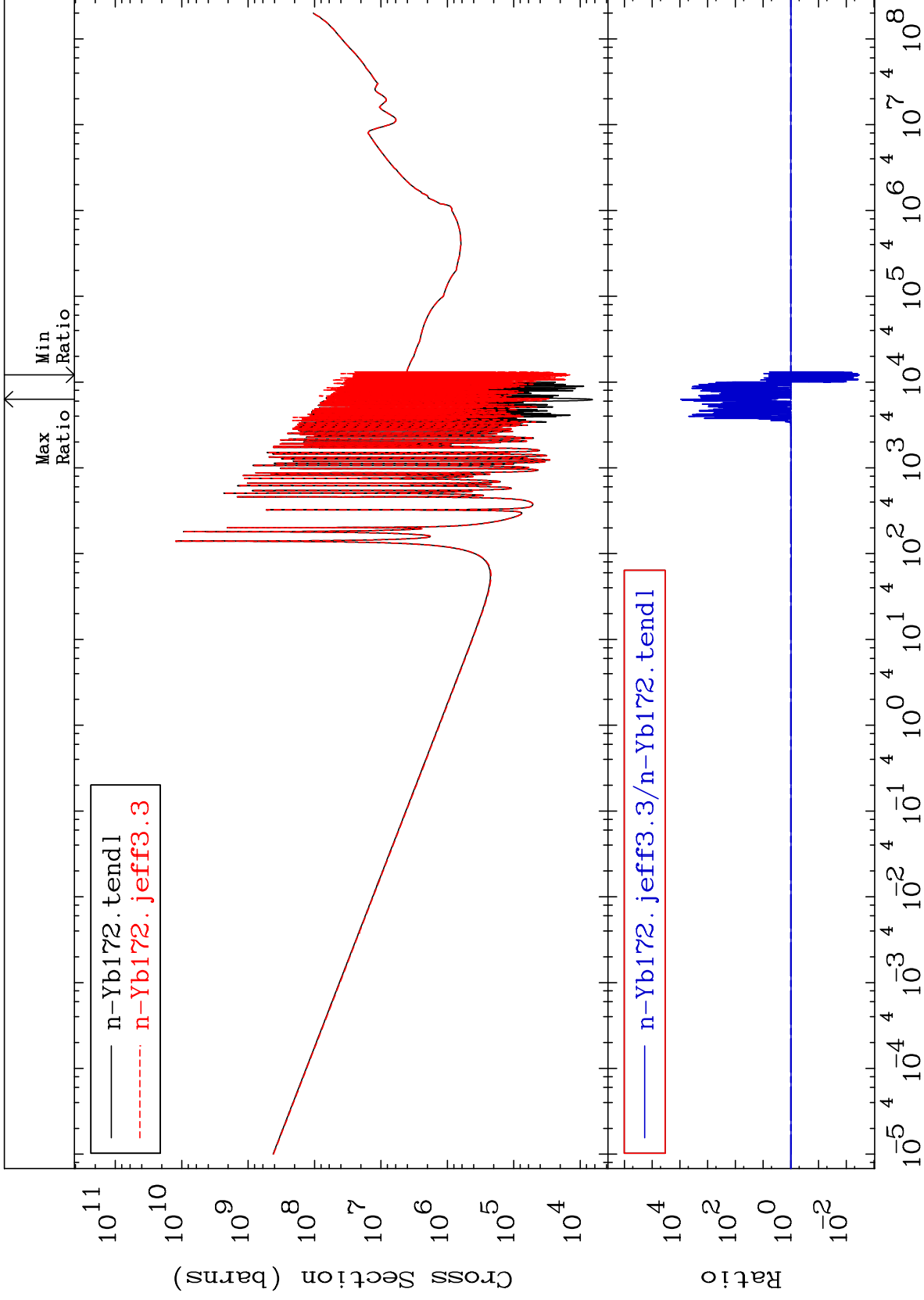


MAT 7037

Kerma elastic
Cross Section

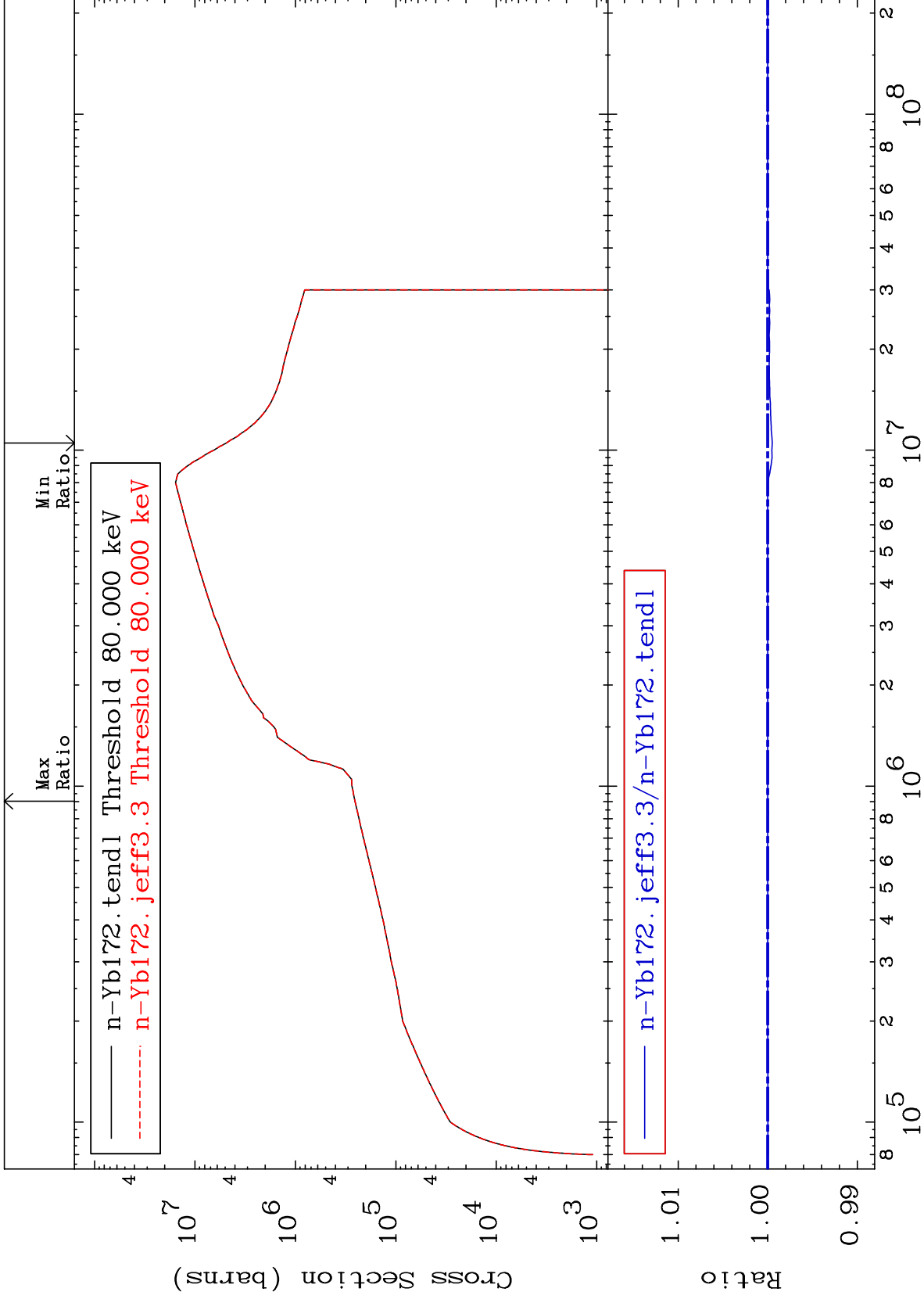
70-Yb-172
-99.69 To 8894. %

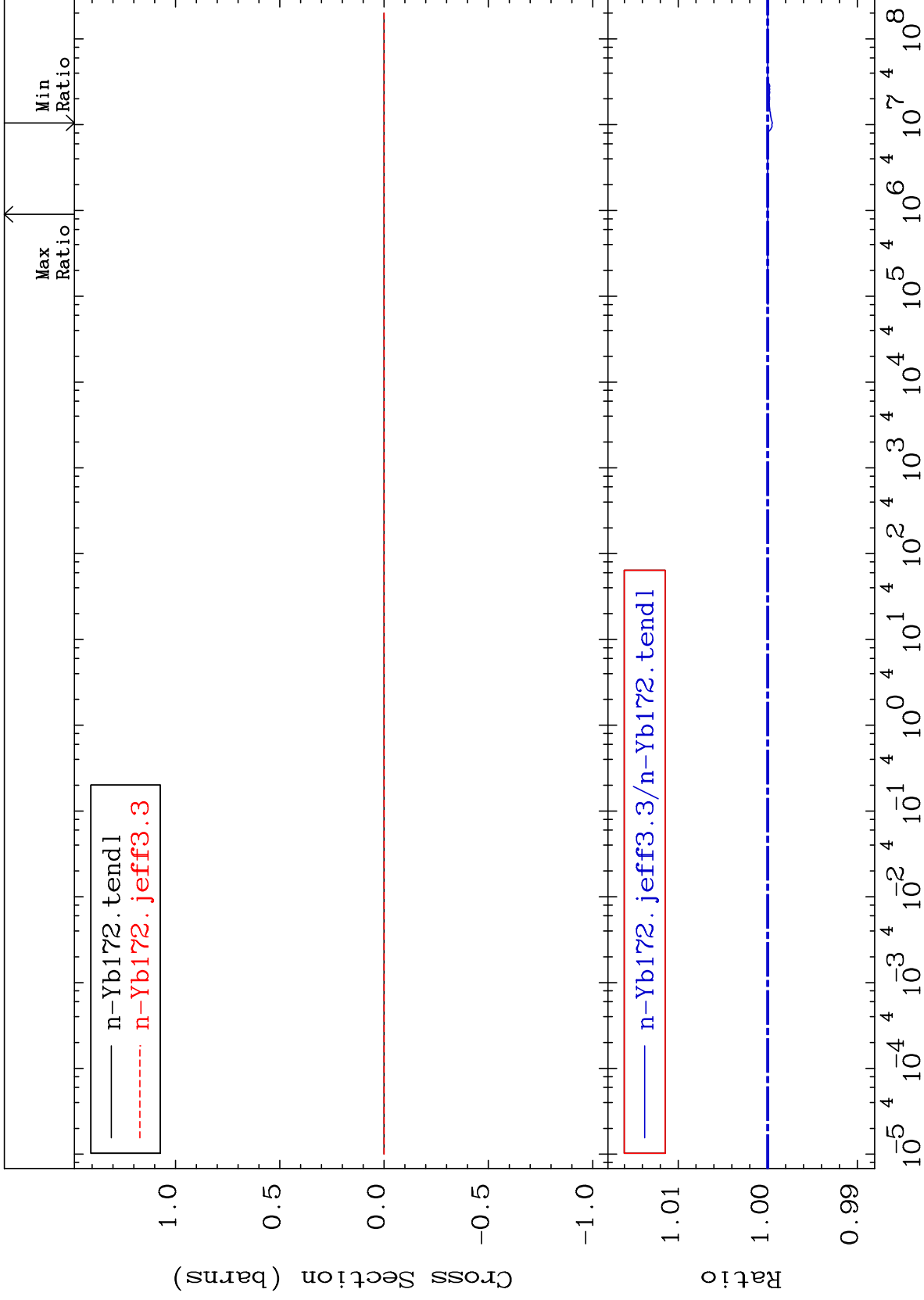




Cross Section

-0.052 To 0.002 %

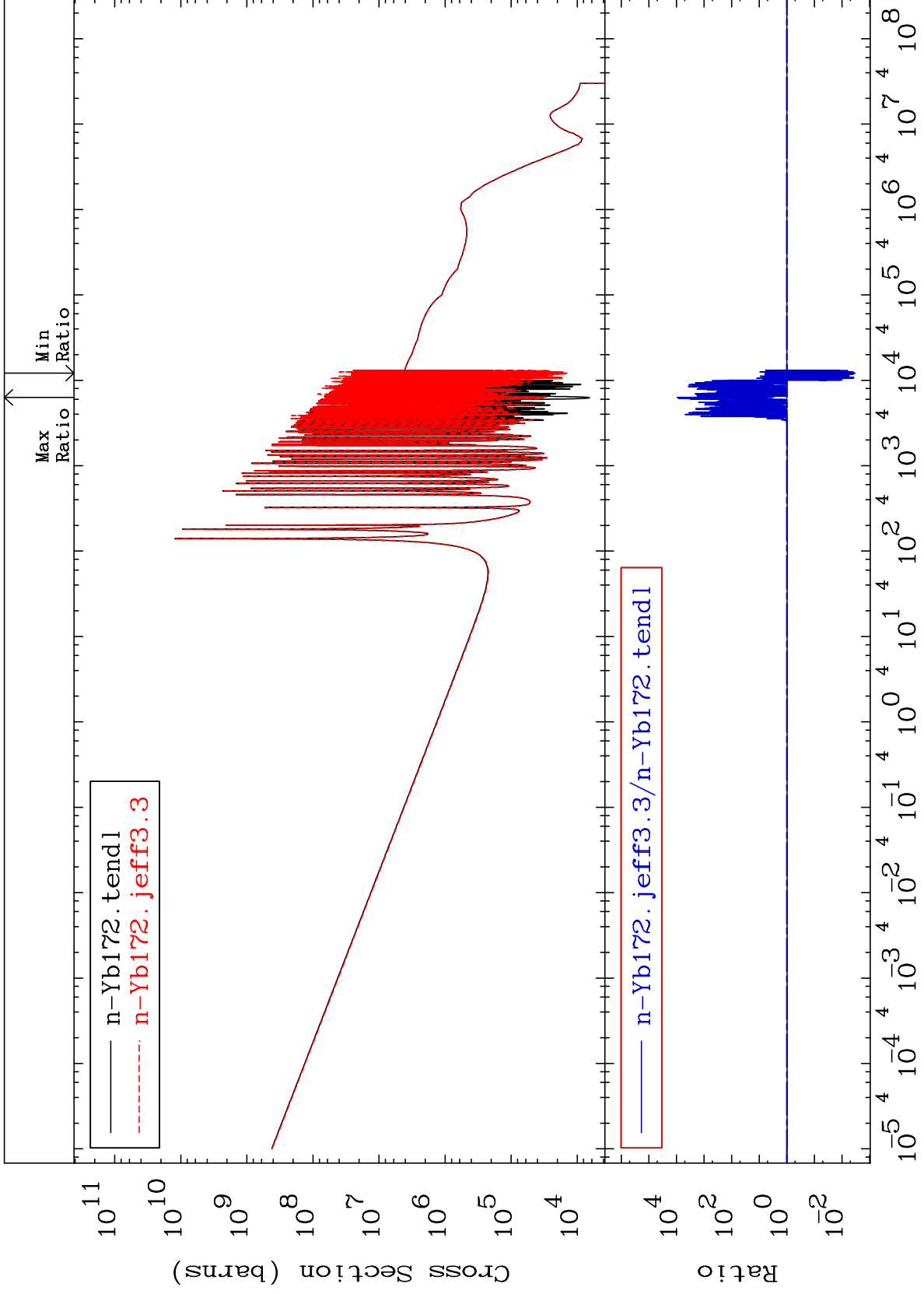


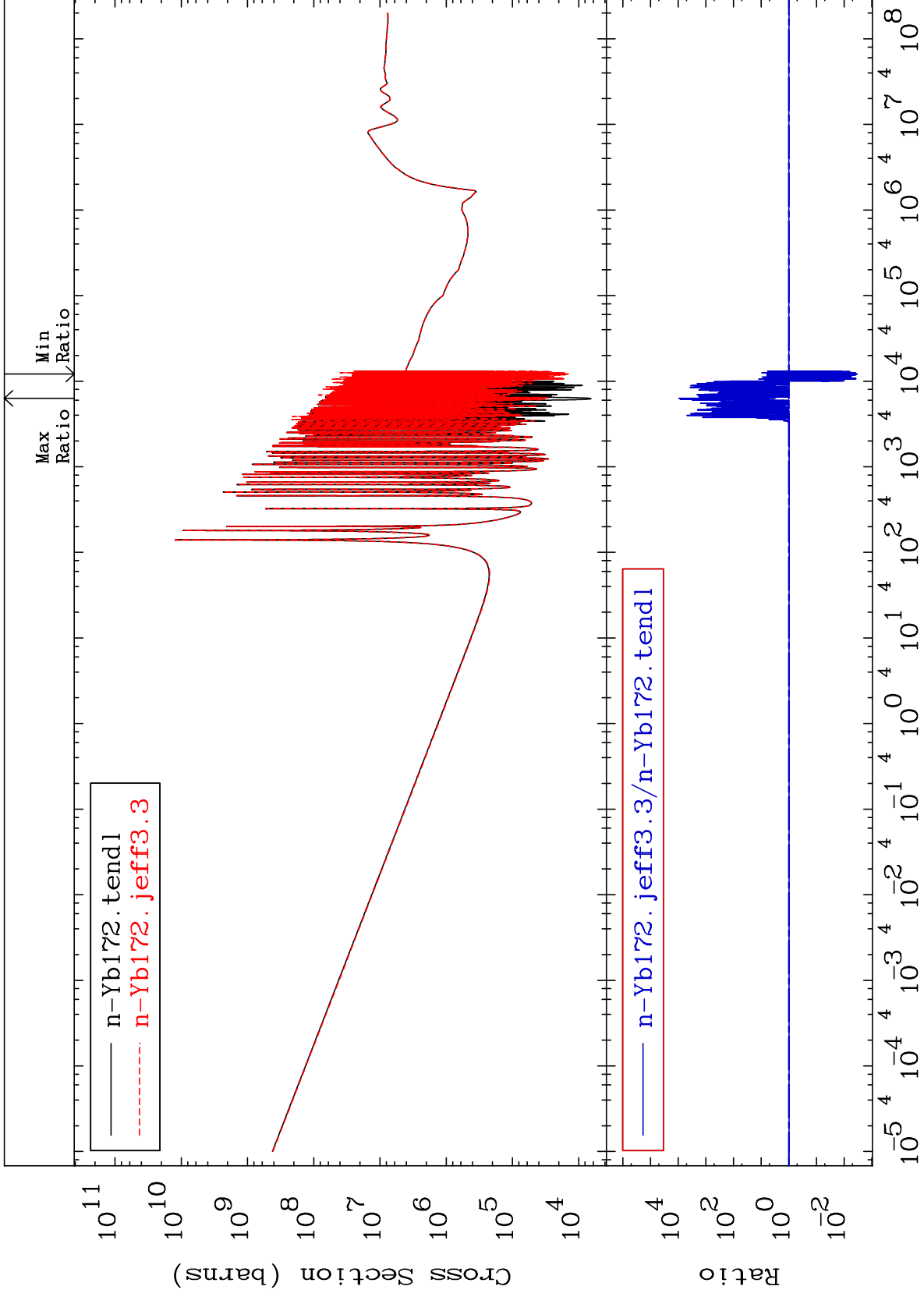


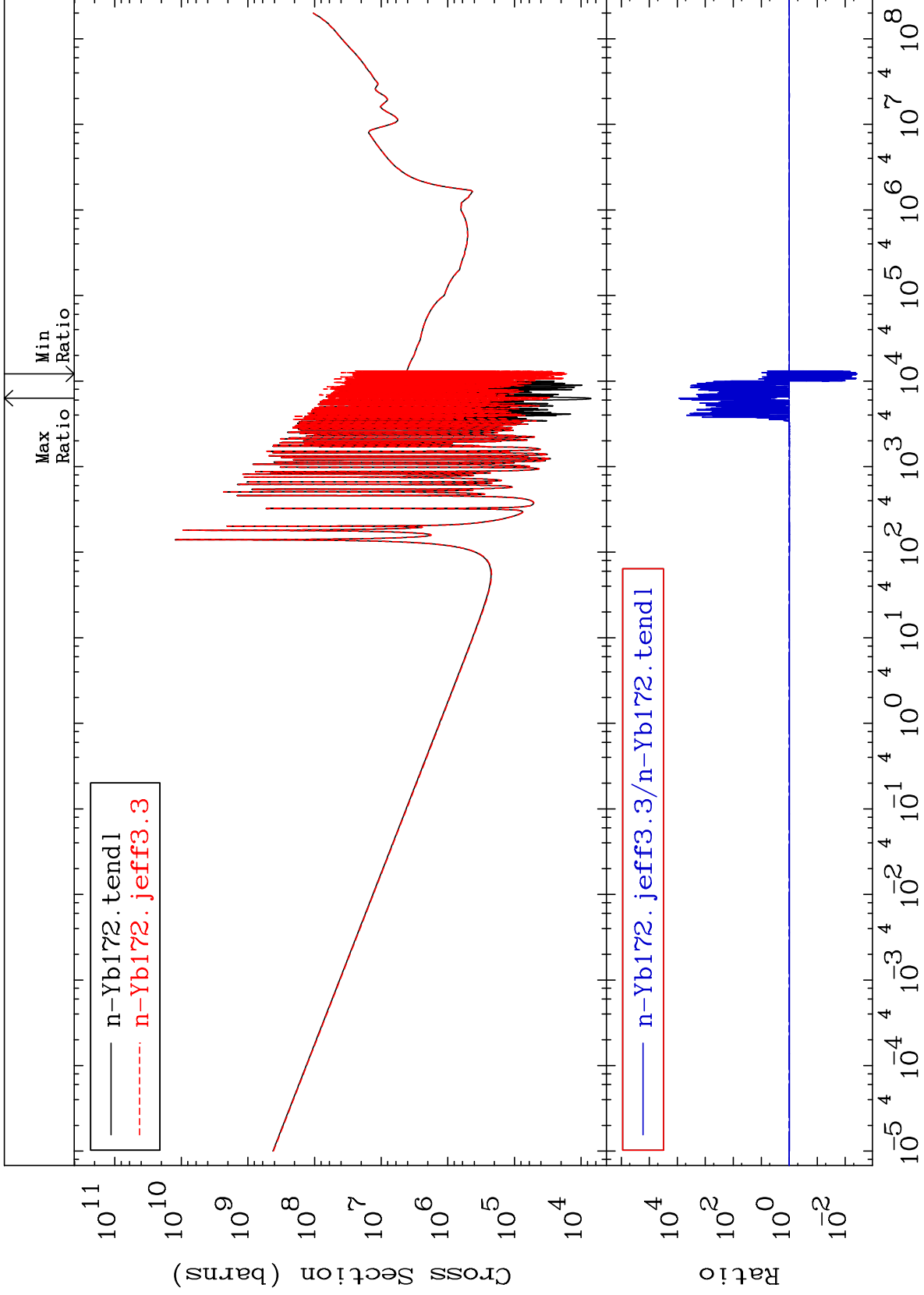
MAT 7037

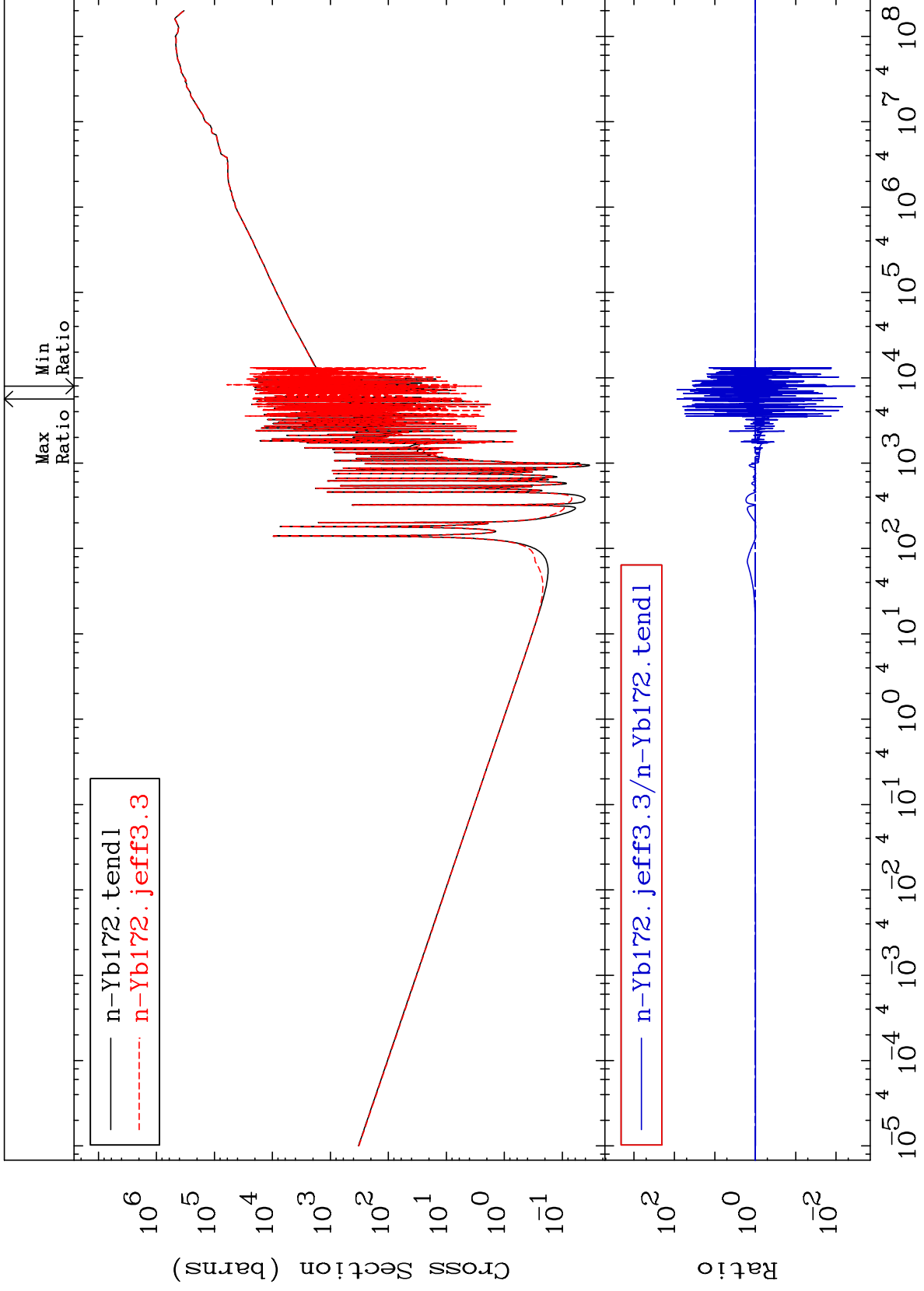
Kerma capture (mt102)
Cross Section

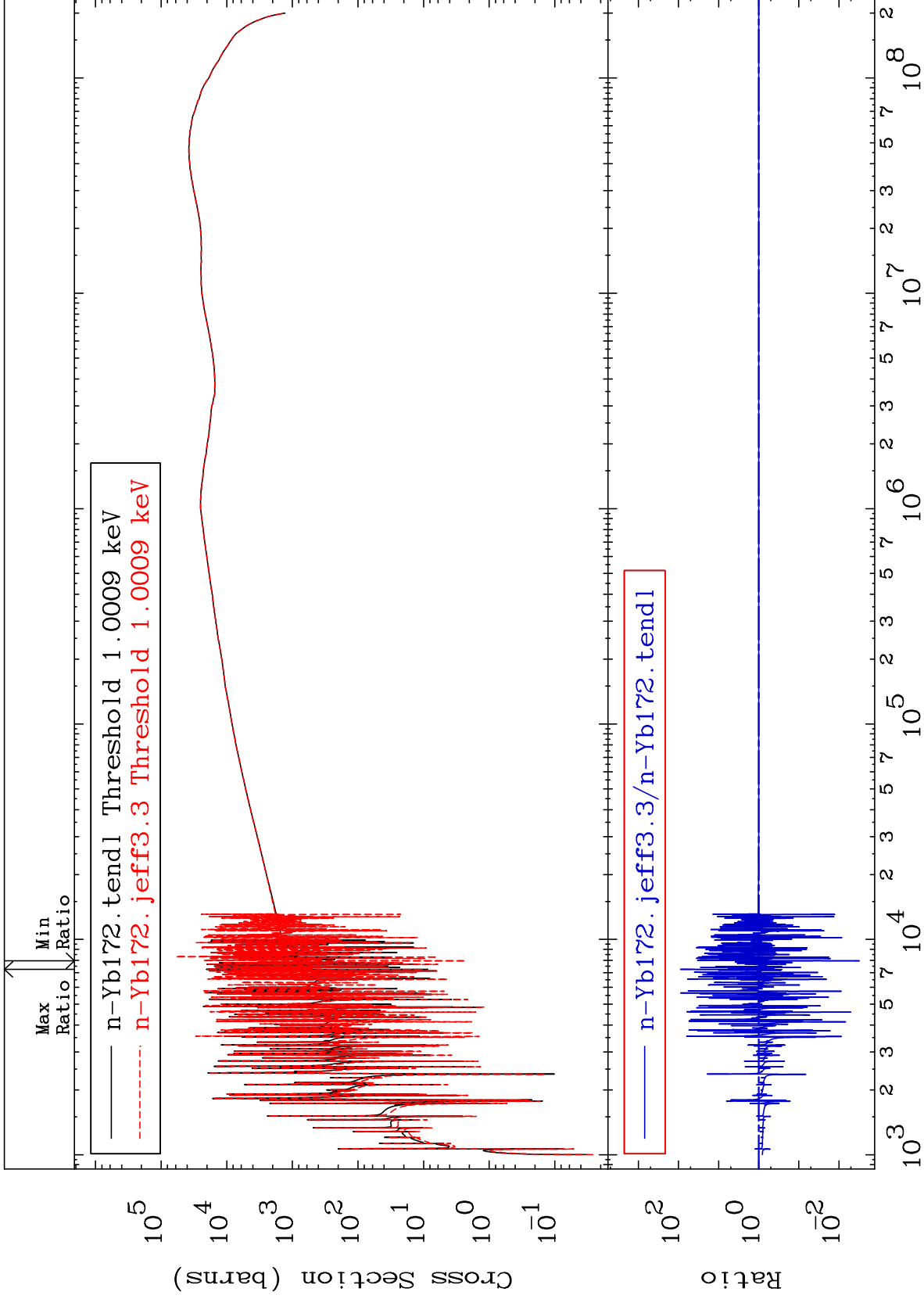
70-Yb-172
-99.66 To 9999. %







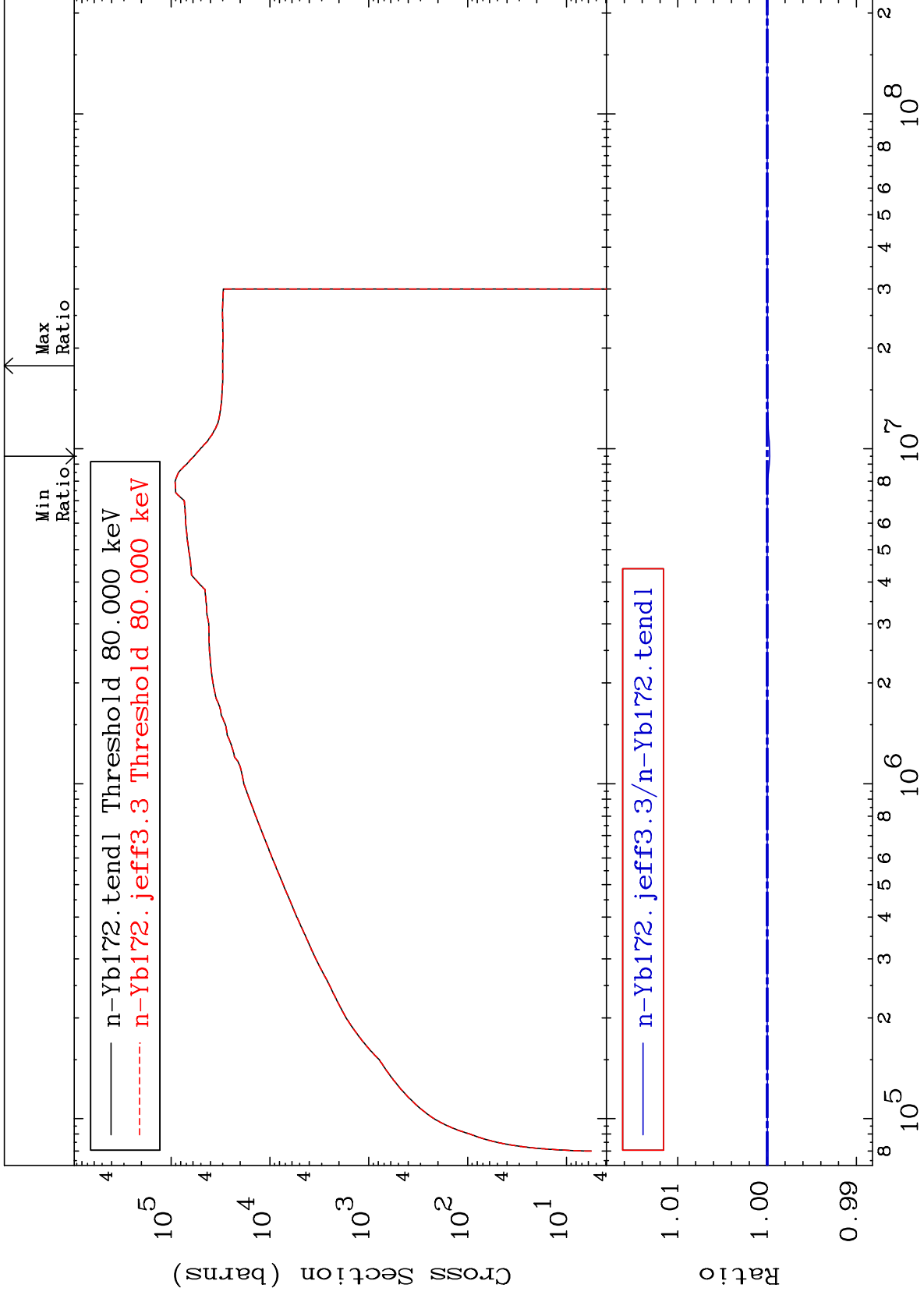


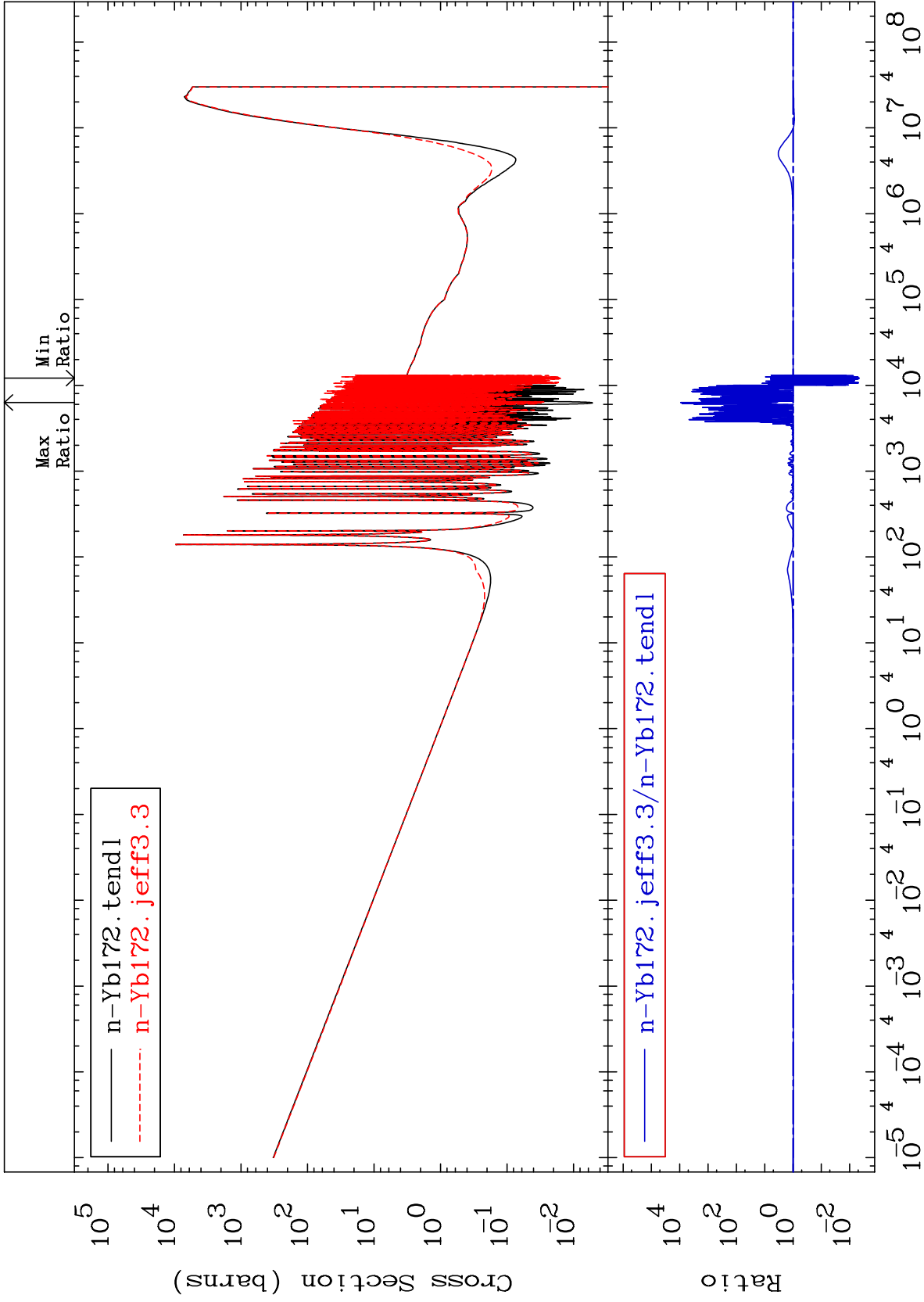


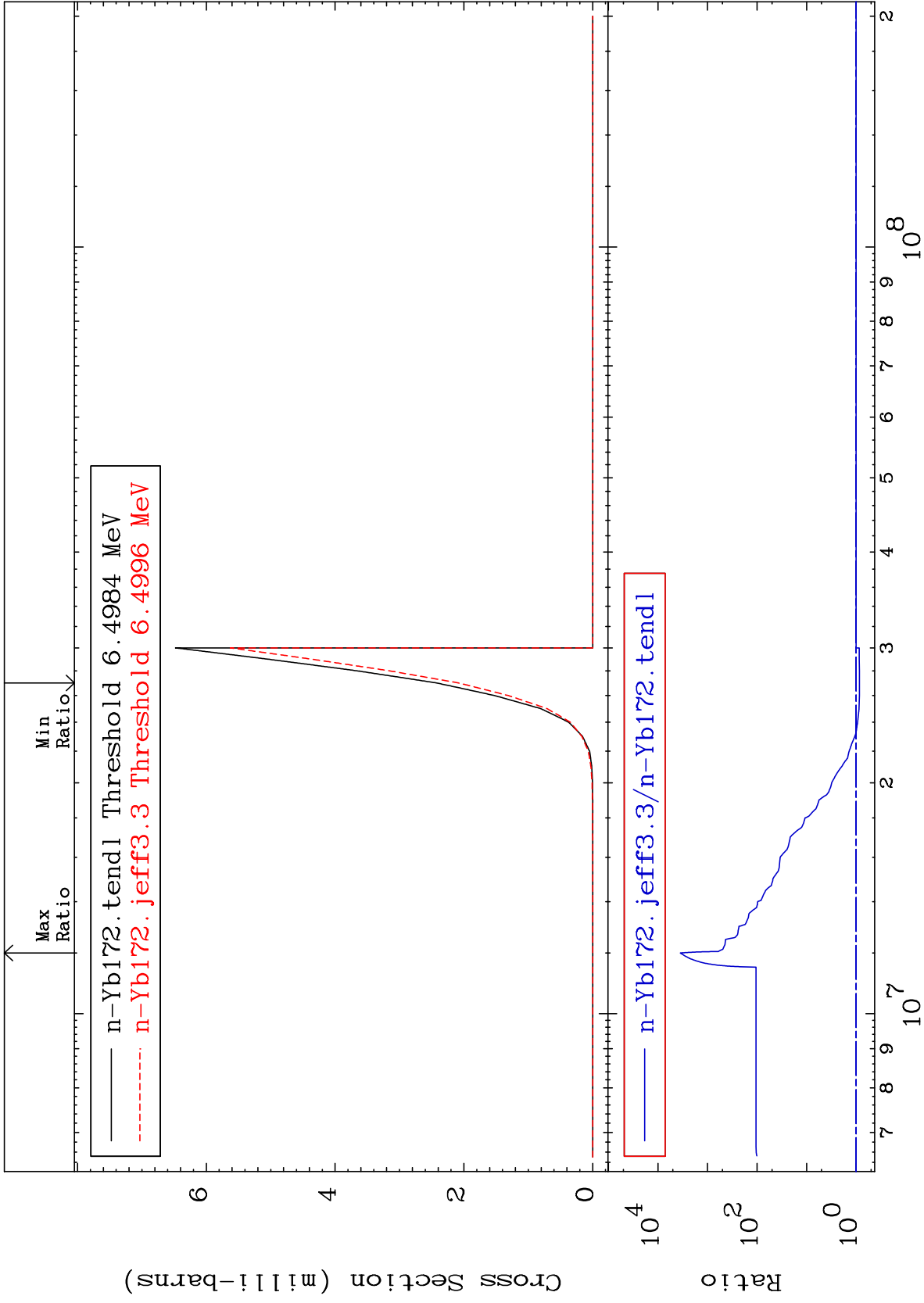
MAT 7037

Dpa inelastic (mt51-91)
Cross Section

70-Yb-172
-0.029 To 0.011 %





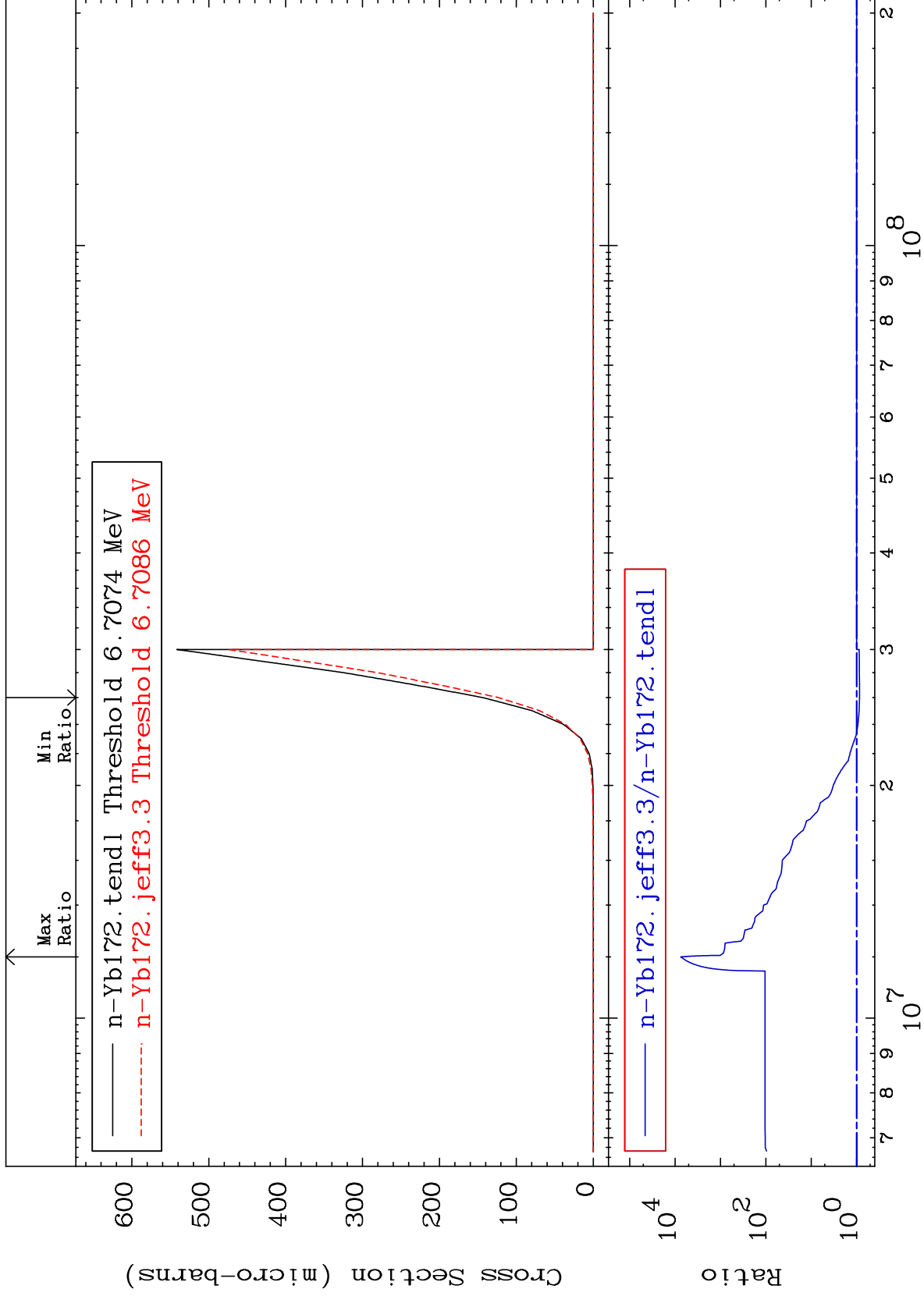


MAT 7037

(n,2n) α : 68-Er-167m3

70-Yb-172

Radionuclide Production Cross Section -14.08 To 9999. %



60

70-Yb-172

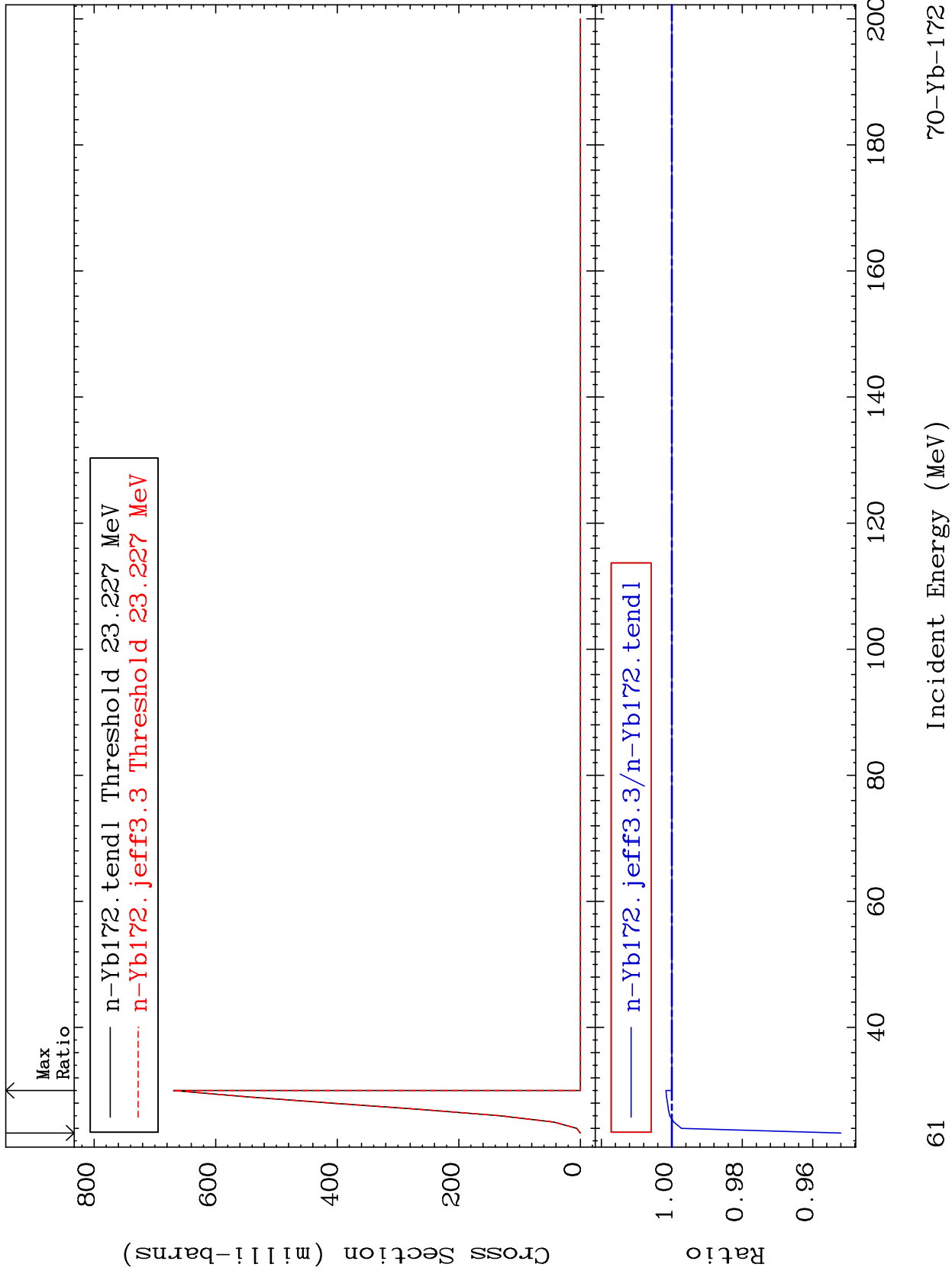
MAT 7037

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

70-Yb-172

Radionuclide Production Cross Section

-4.799 To 0.166 %



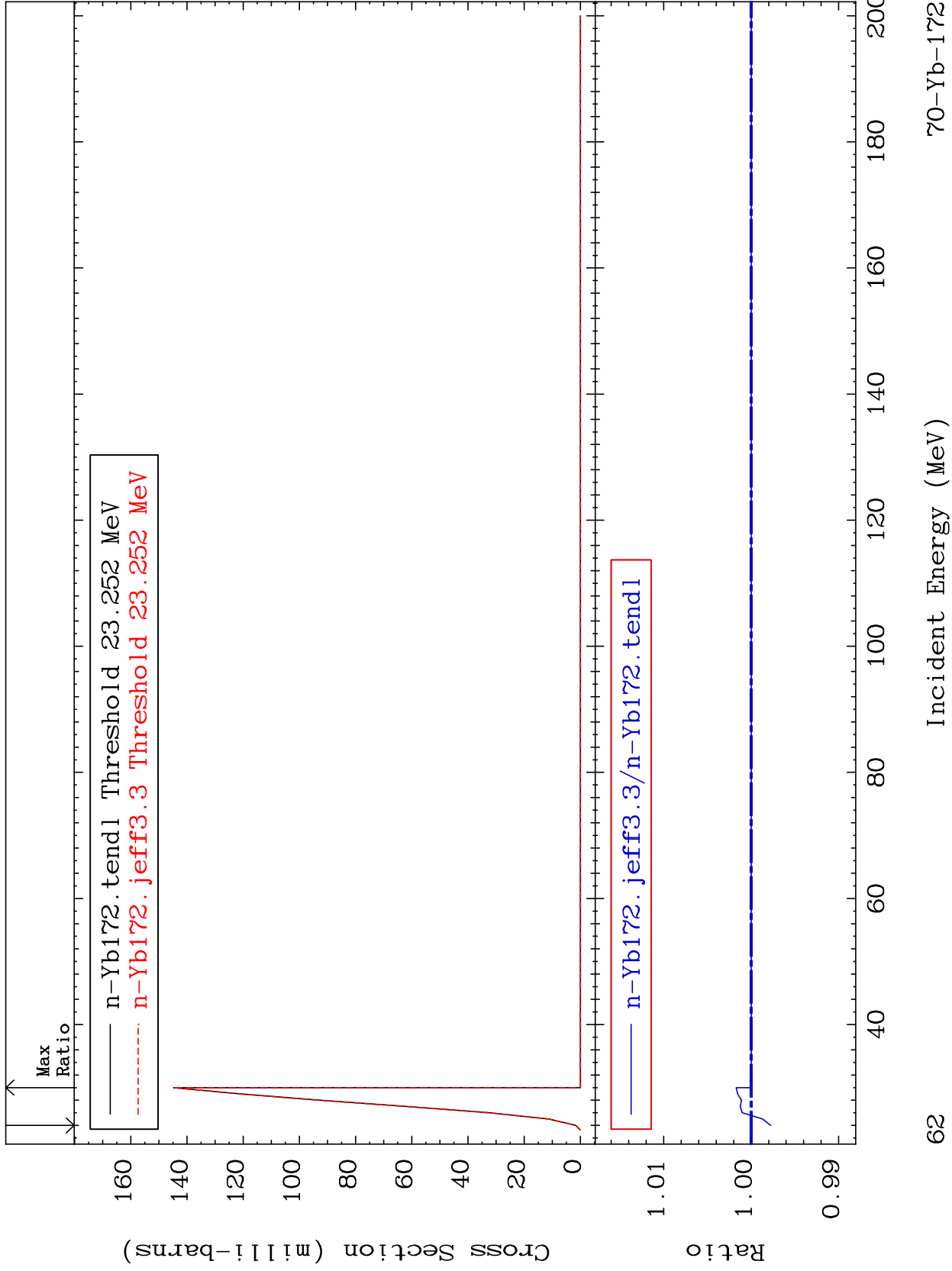
MAT 7037

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

70-Yb-172

Radionuclide Production Cross Section

-0.222 To 0.171 %

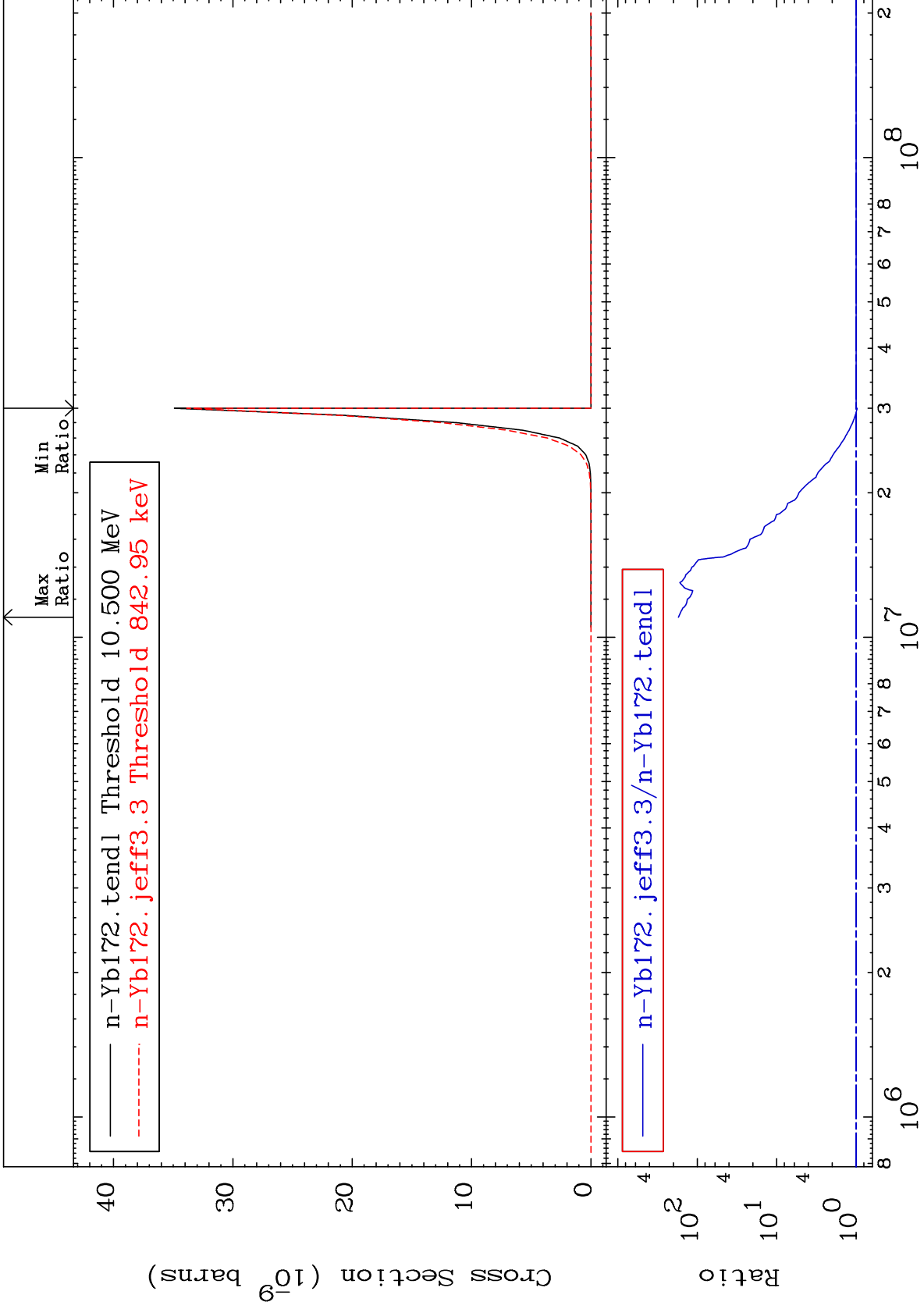


MAT 7037

(n, p) α : 67-Ho-168g

70-Yb-172

Radionuclide Production Cross Section -2.985 To 9999. %



63

Incident Energy (eV)

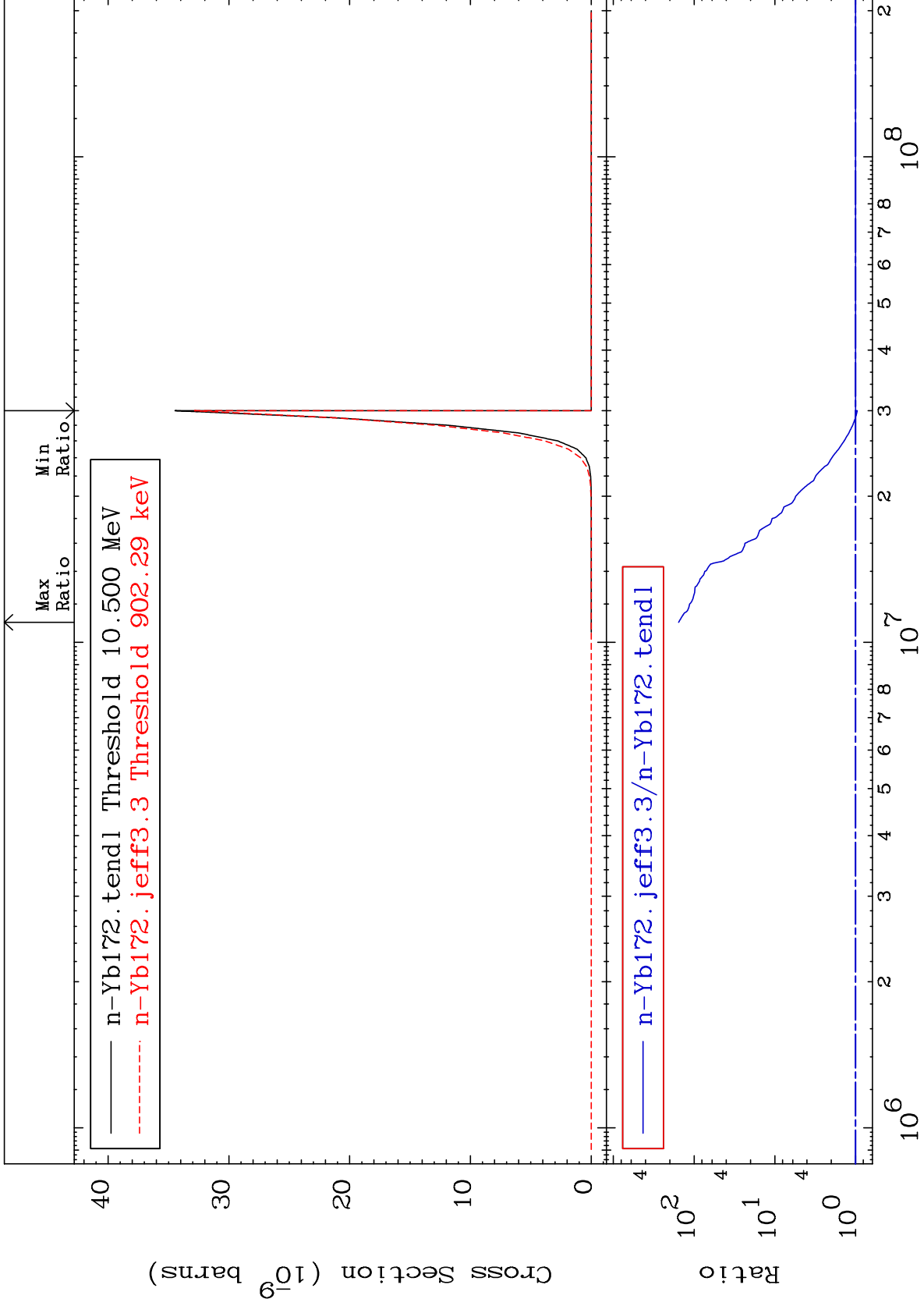
70-Yb-172

MAT 7037

(n,p) α :67-Ho-168m1

70-Yb-172

Radionuclide Production Cross Section -4.723 To 9999. %



64

Incident Energy (eV)

70-Yb-172