

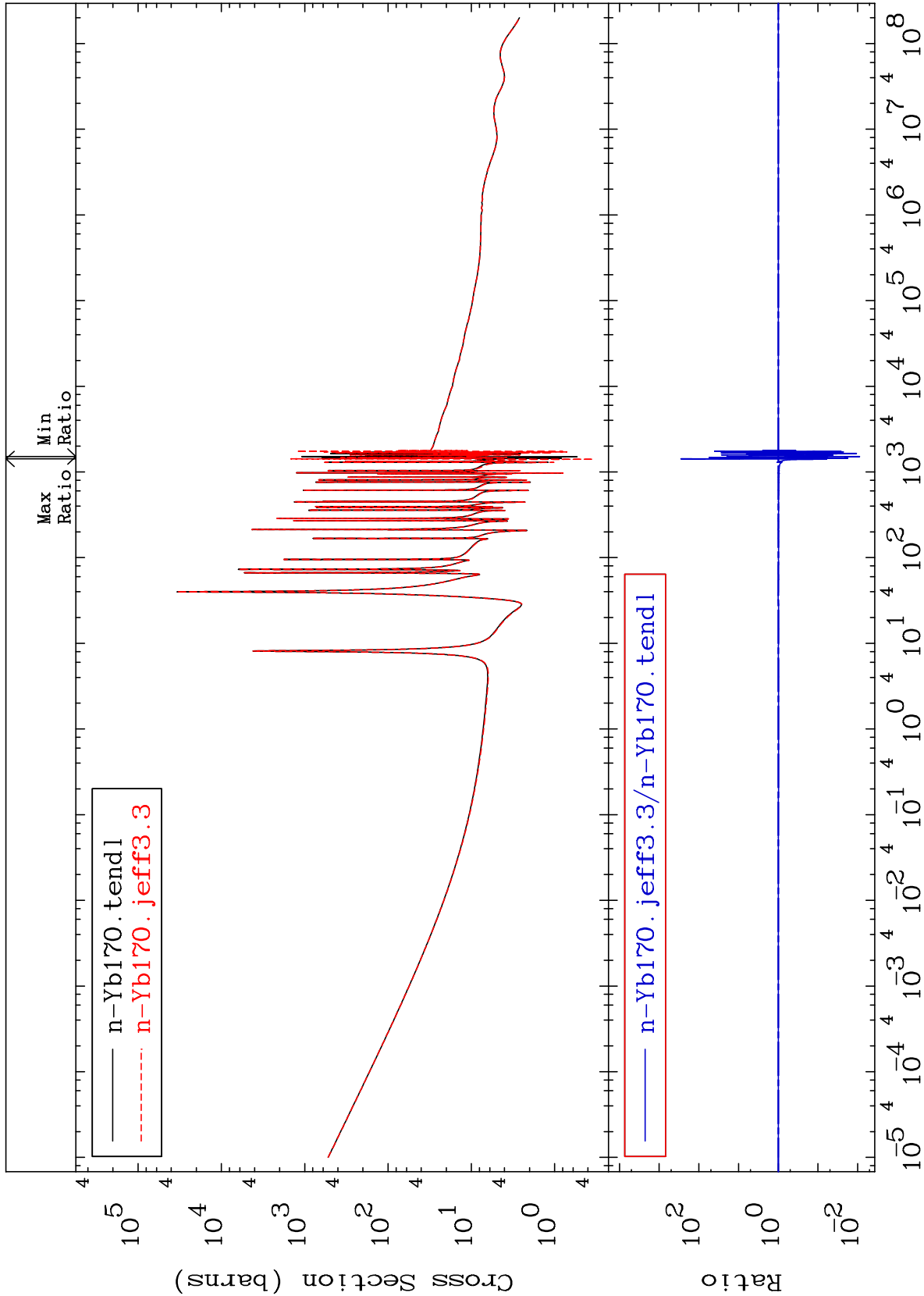
MAT 7031

Total

⁷⁰Yb-¹⁷⁰

Cross Section

-99.10 To 9999. %



Incident Energy (eV)

⁷⁰Yb-¹⁷⁰

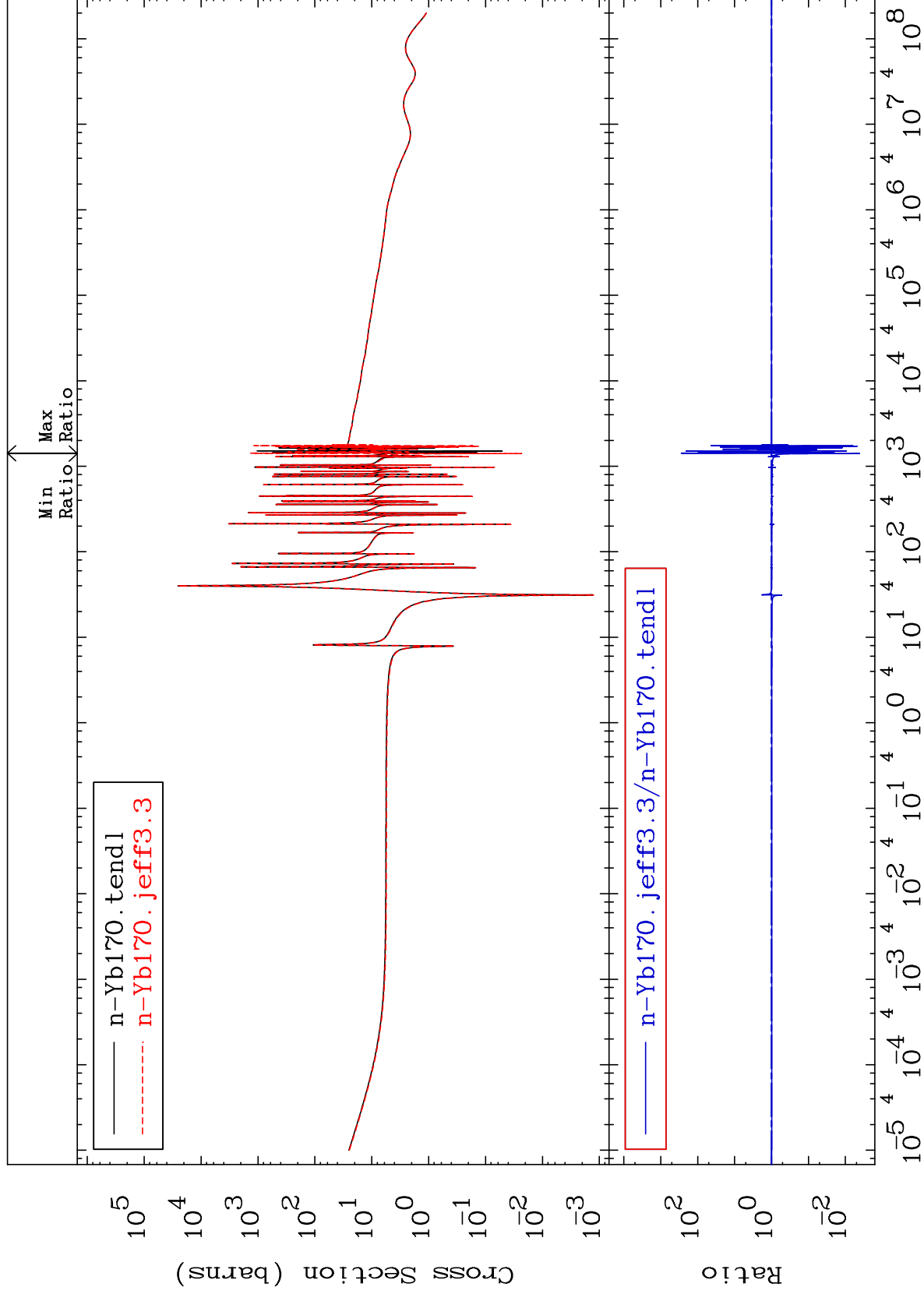
MAT 7031

Elastic

Cross Section

⁷⁰Yb-¹⁷⁰

-99.59 To 9999. %



2

Incident Energy (eV)

⁷⁰Yb-¹⁷⁰

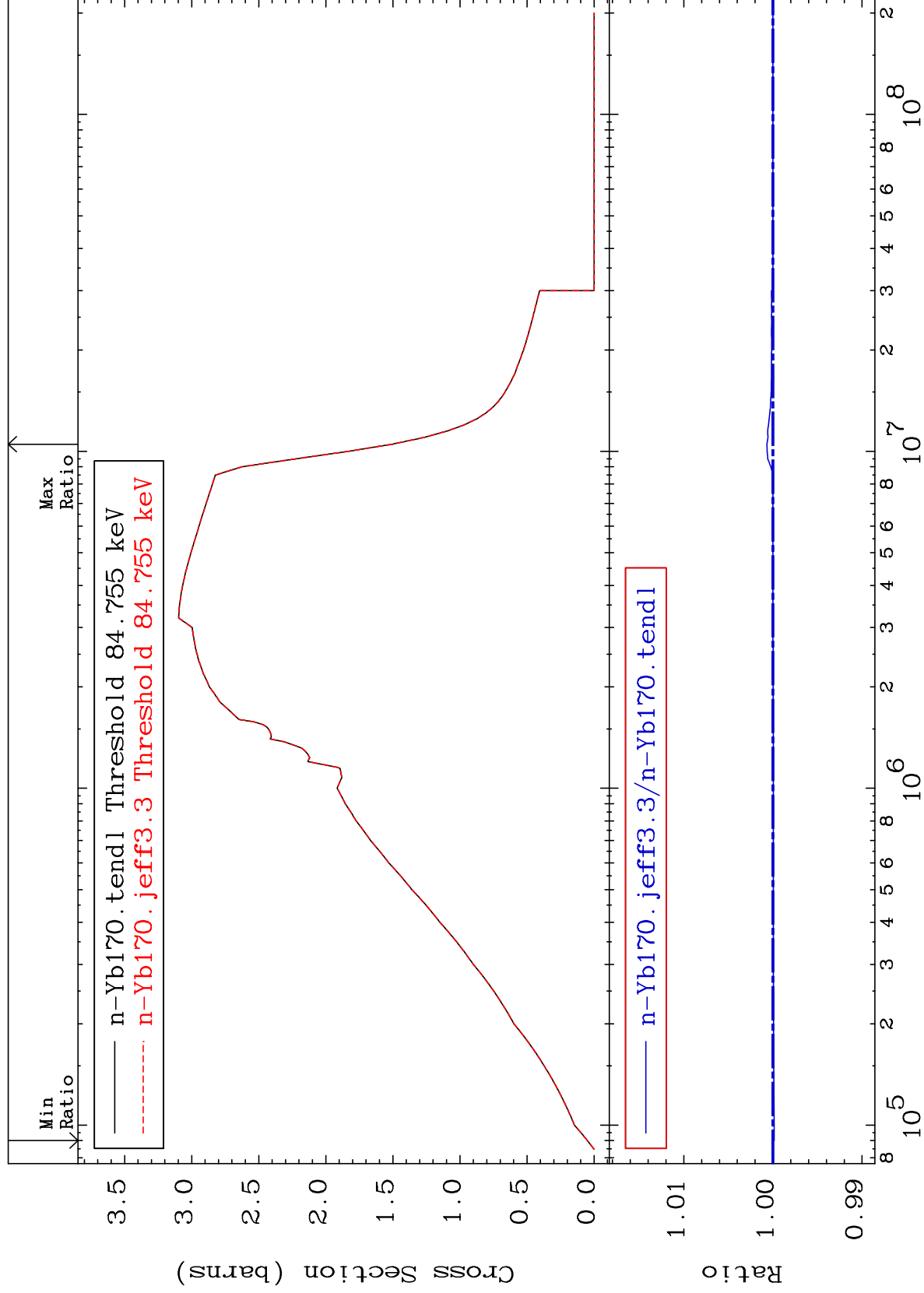
MAT 7031

Inelastic

70-Yb-170

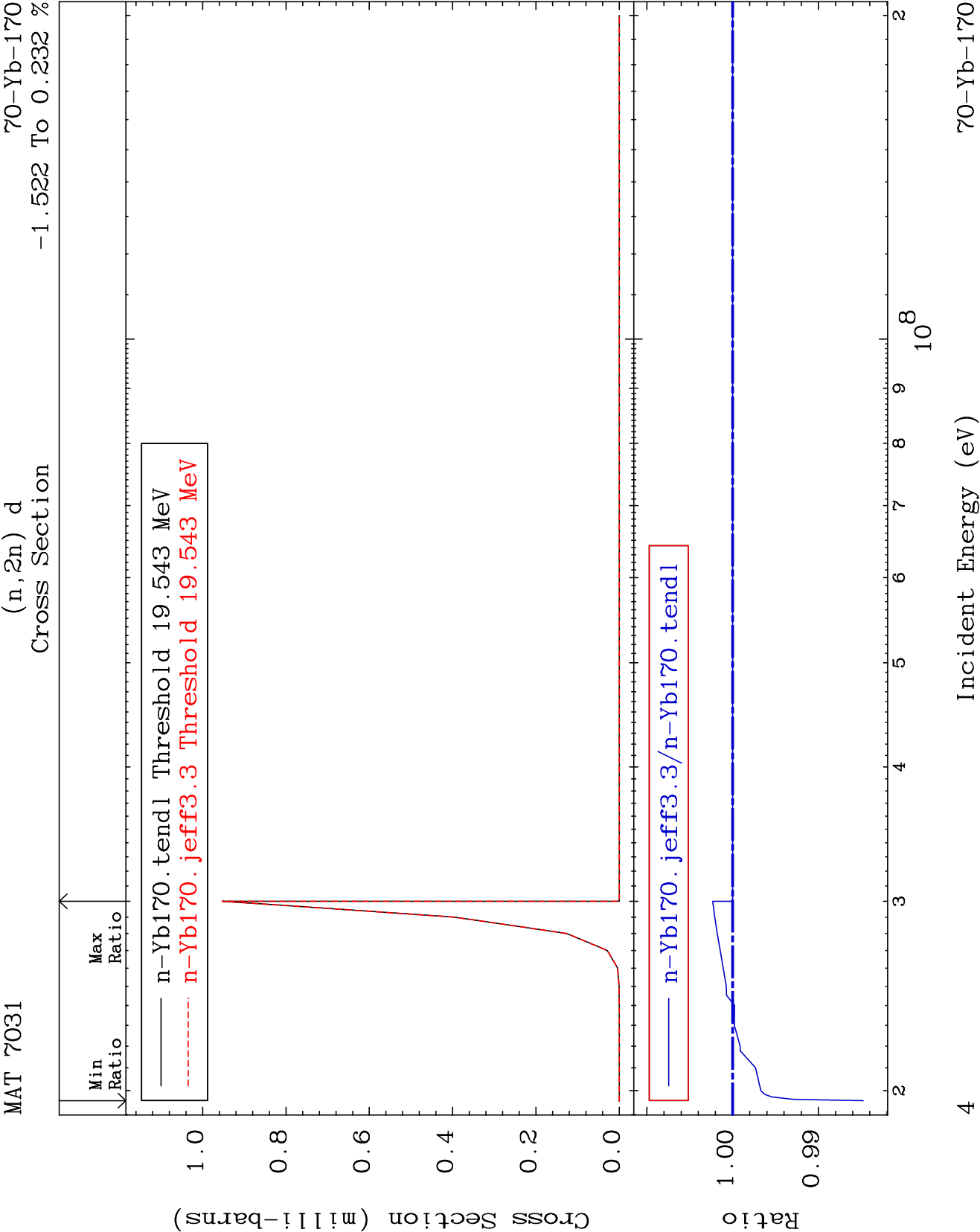
Cross Section

-0.014 To 0.068 %



Incident Energy (eV)

70-Yb-170



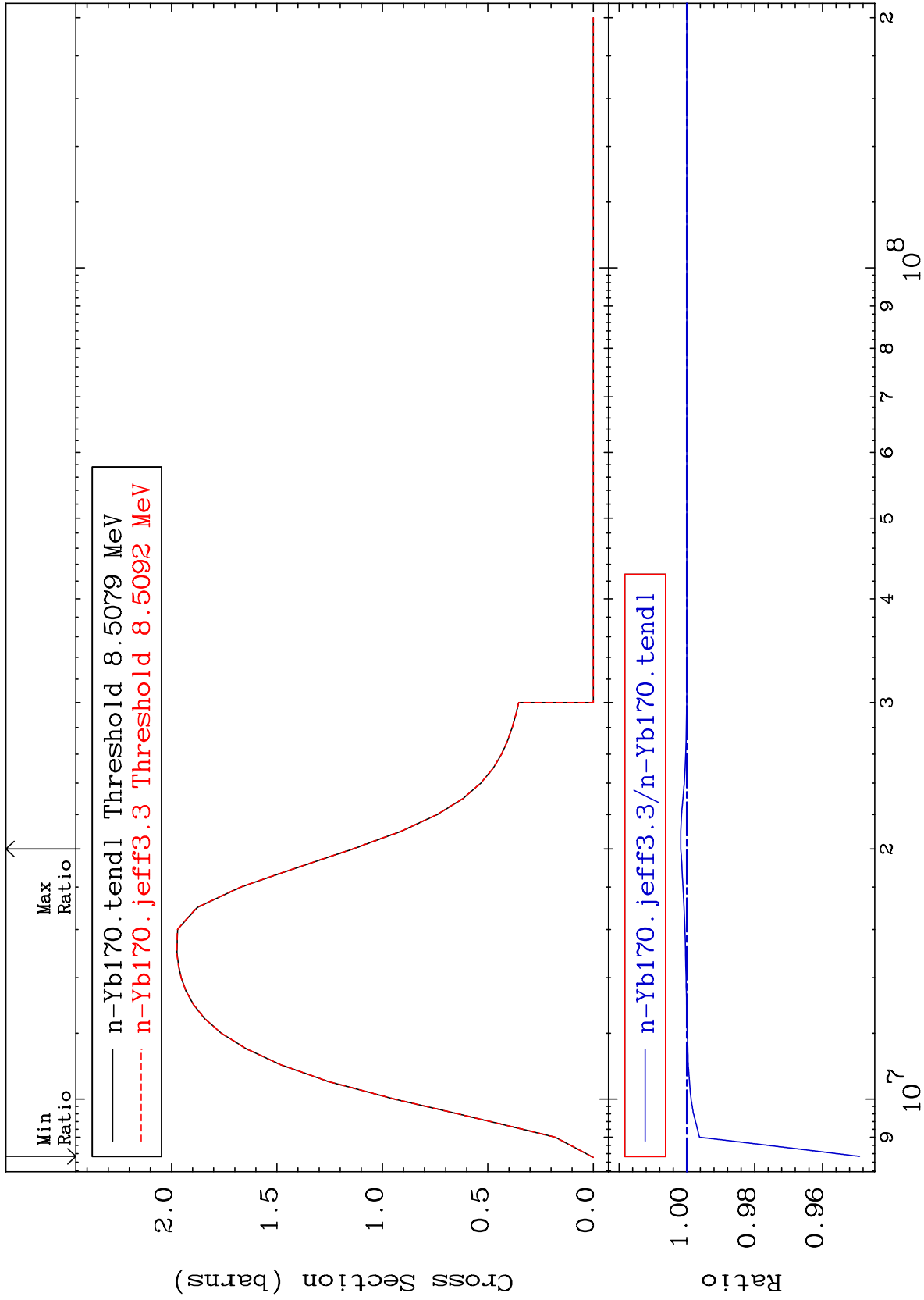
MAT 7031

(n,2n)

⁷⁰Yb-¹⁷⁰

Cross Section

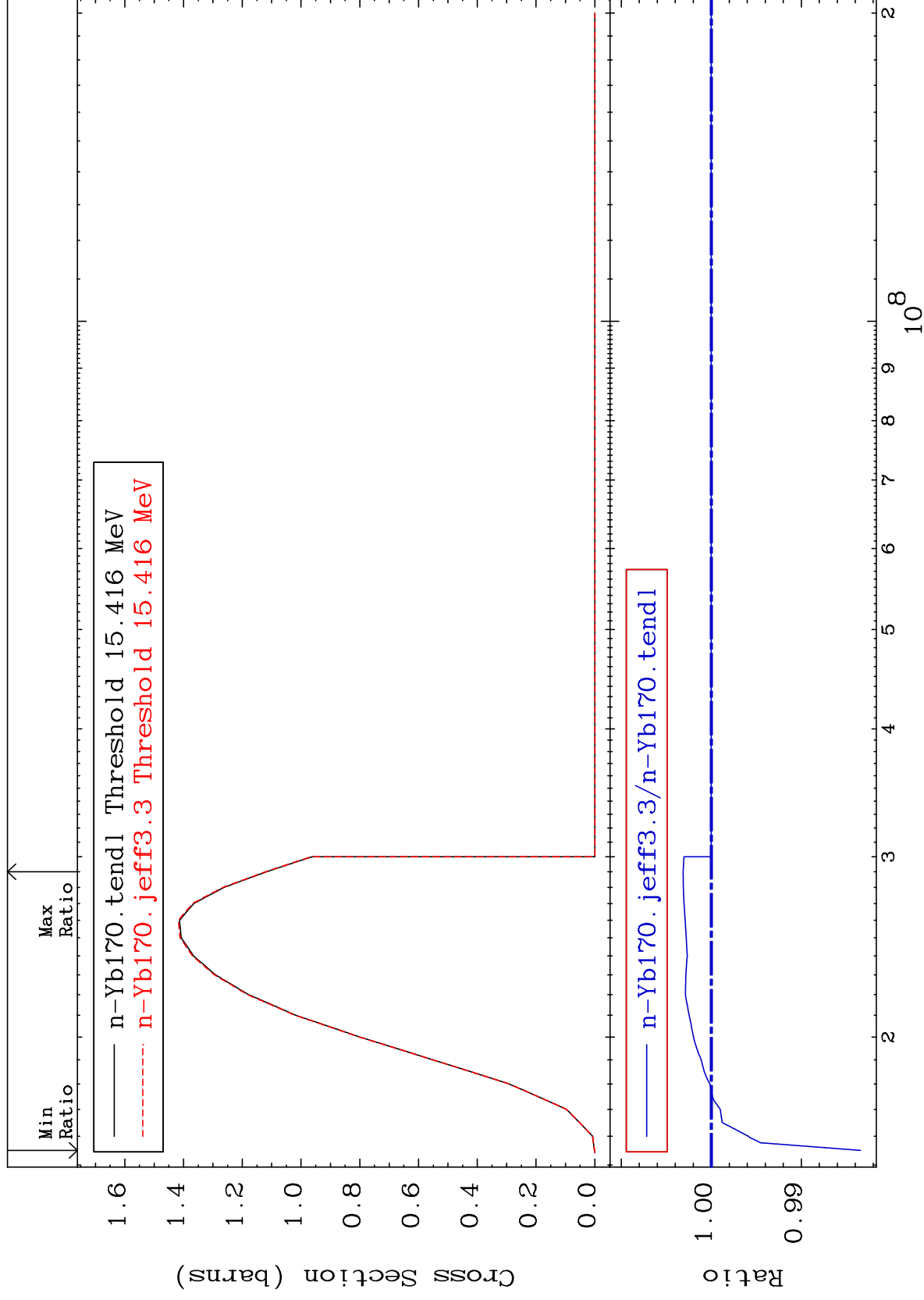
-5.094 To 0.178 %



5

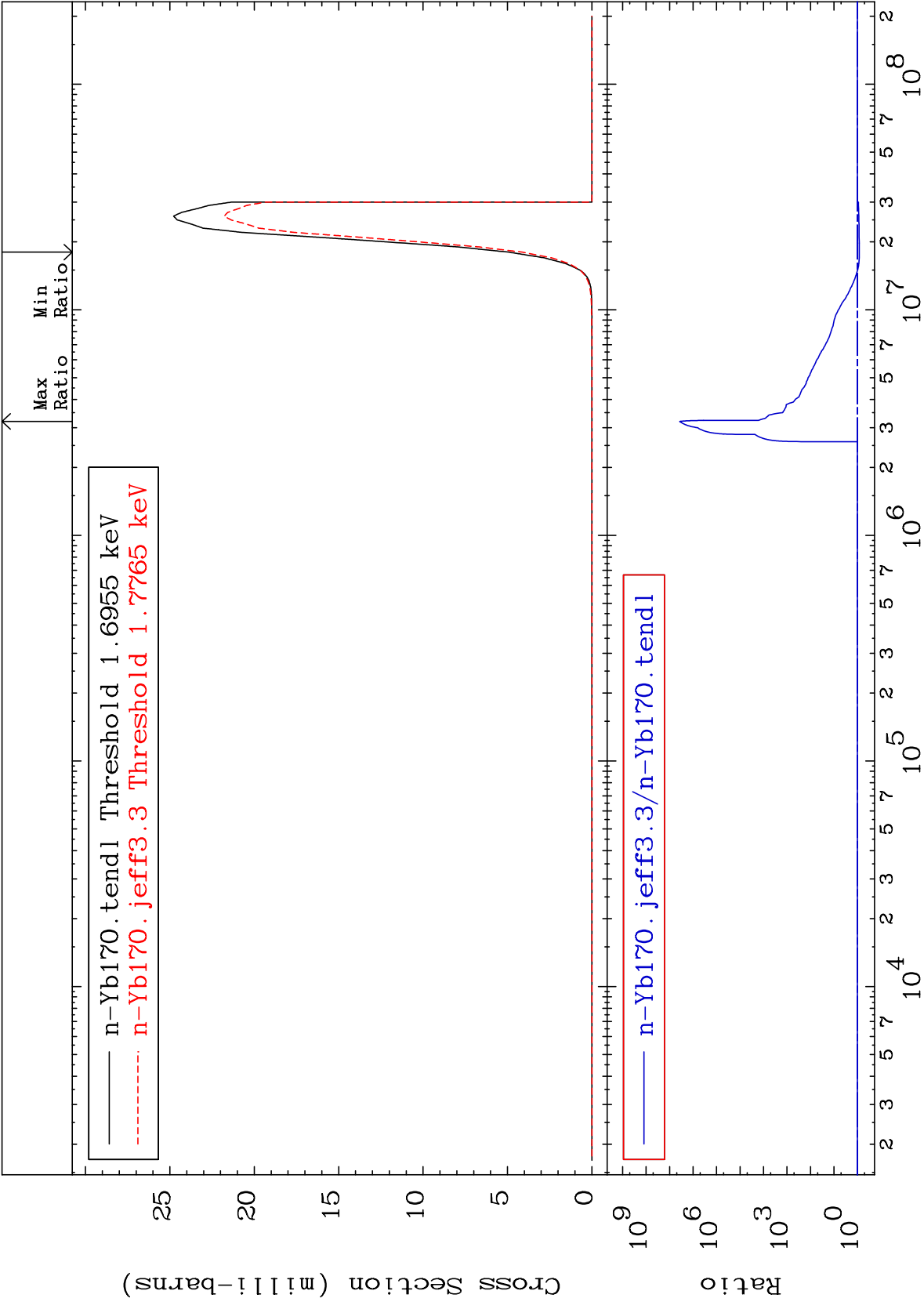
Incident Energy (eV)

⁷⁰Yb-¹⁷⁰



MAT 7031

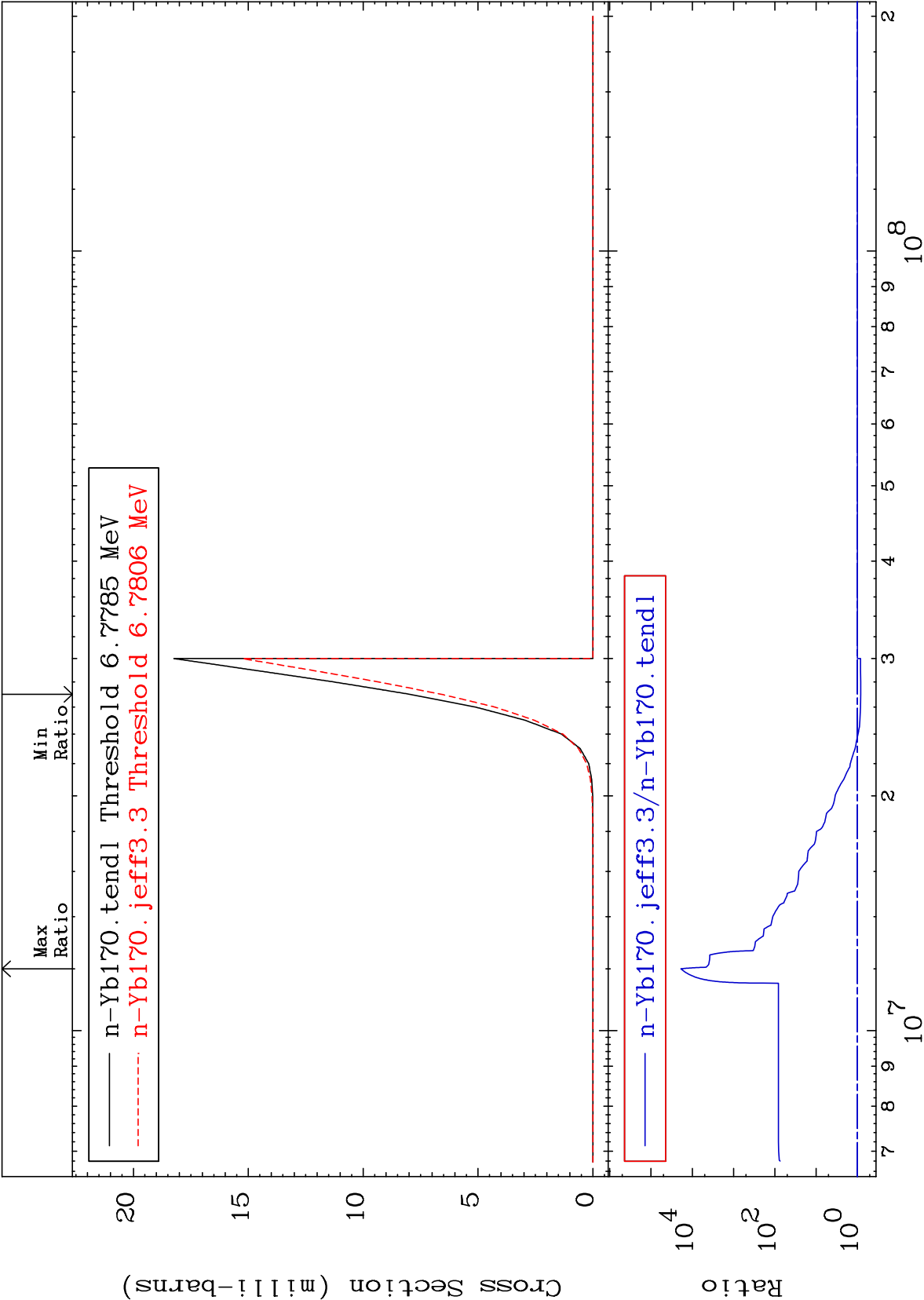
$(n,n') \alpha$
Cross Section
70-Yb-170
-16.24 To 9999. %

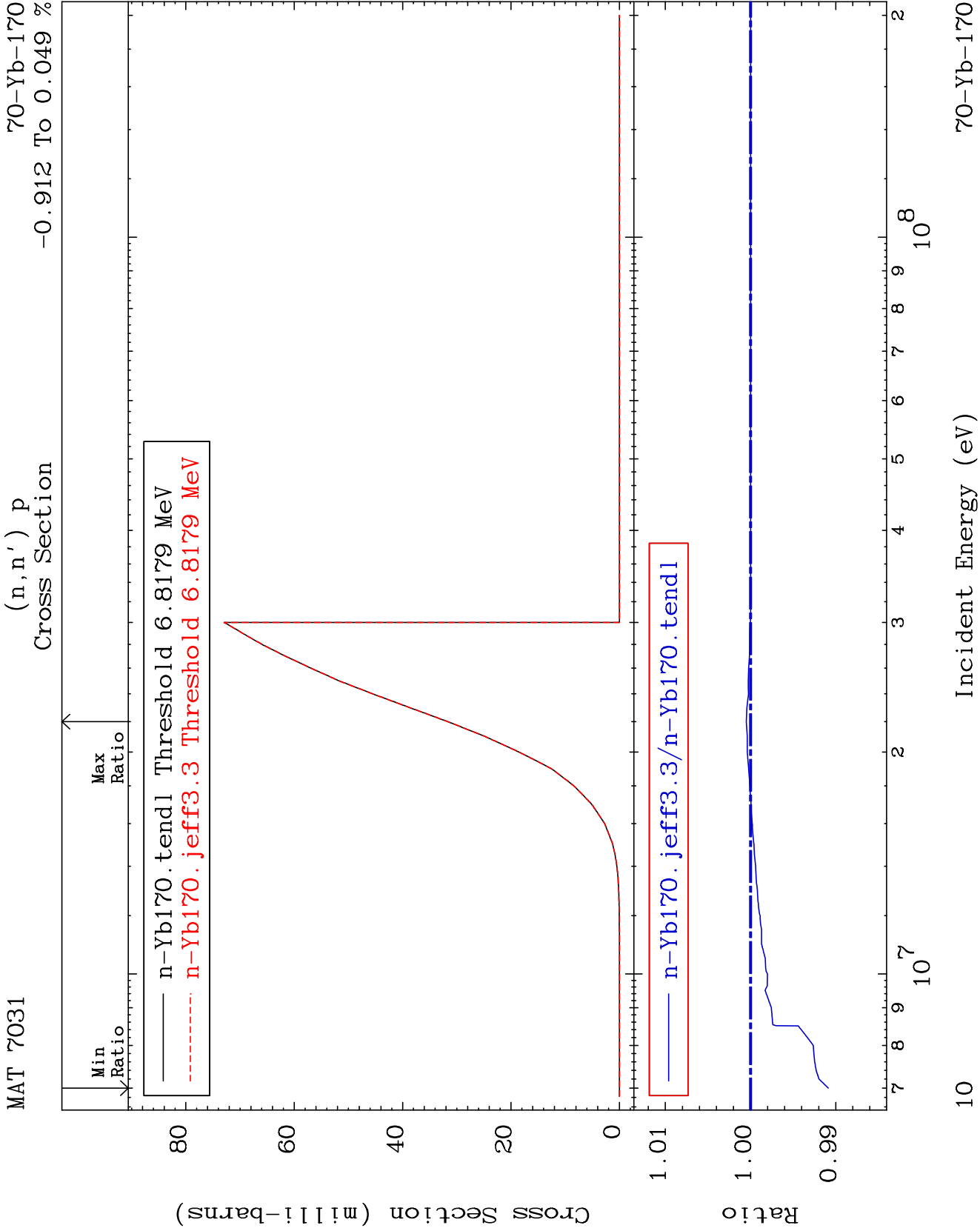


MAT 7031

(n,2n) α
Cross Section

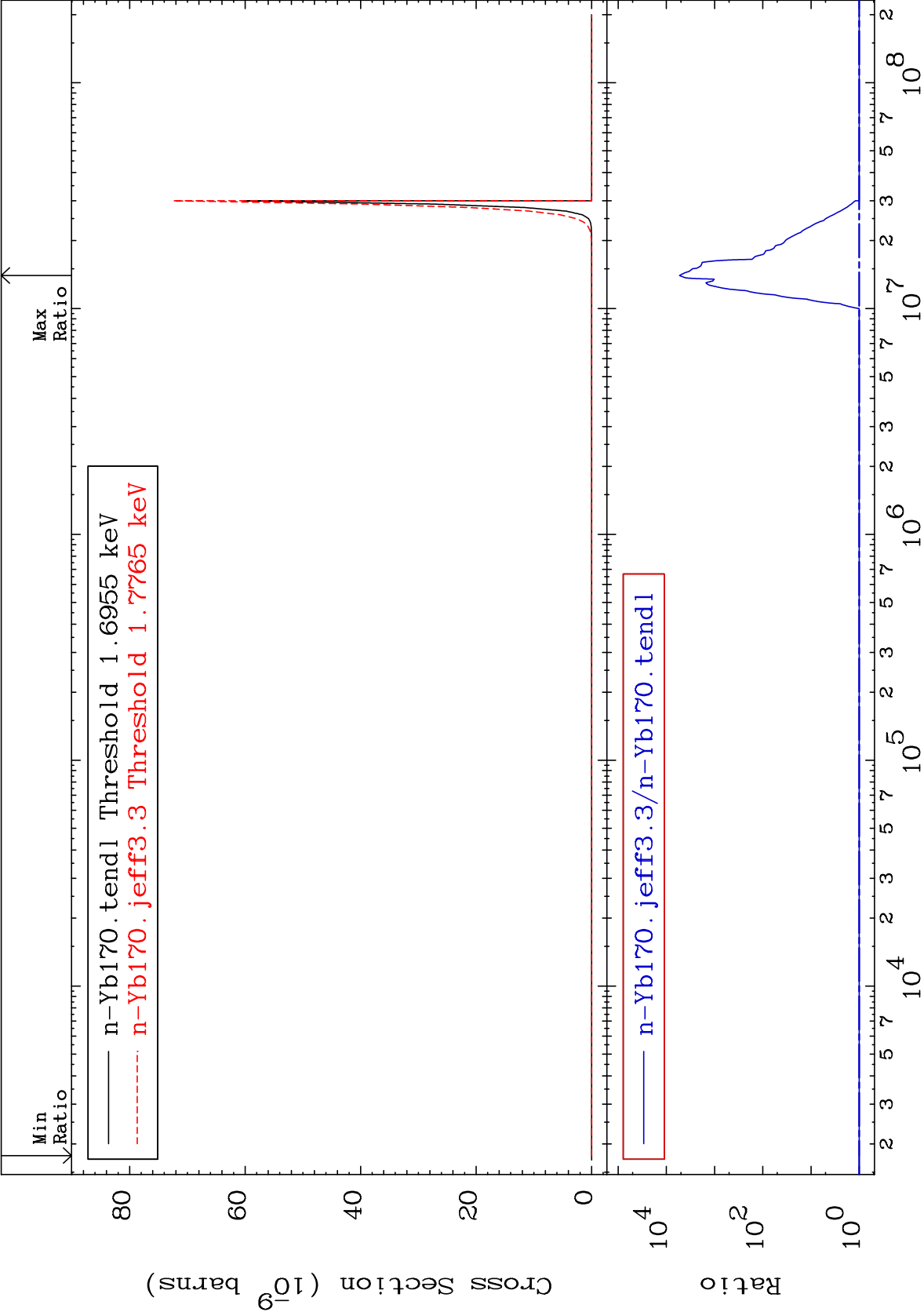
70-Yb-170
-17.38 To 9999. %





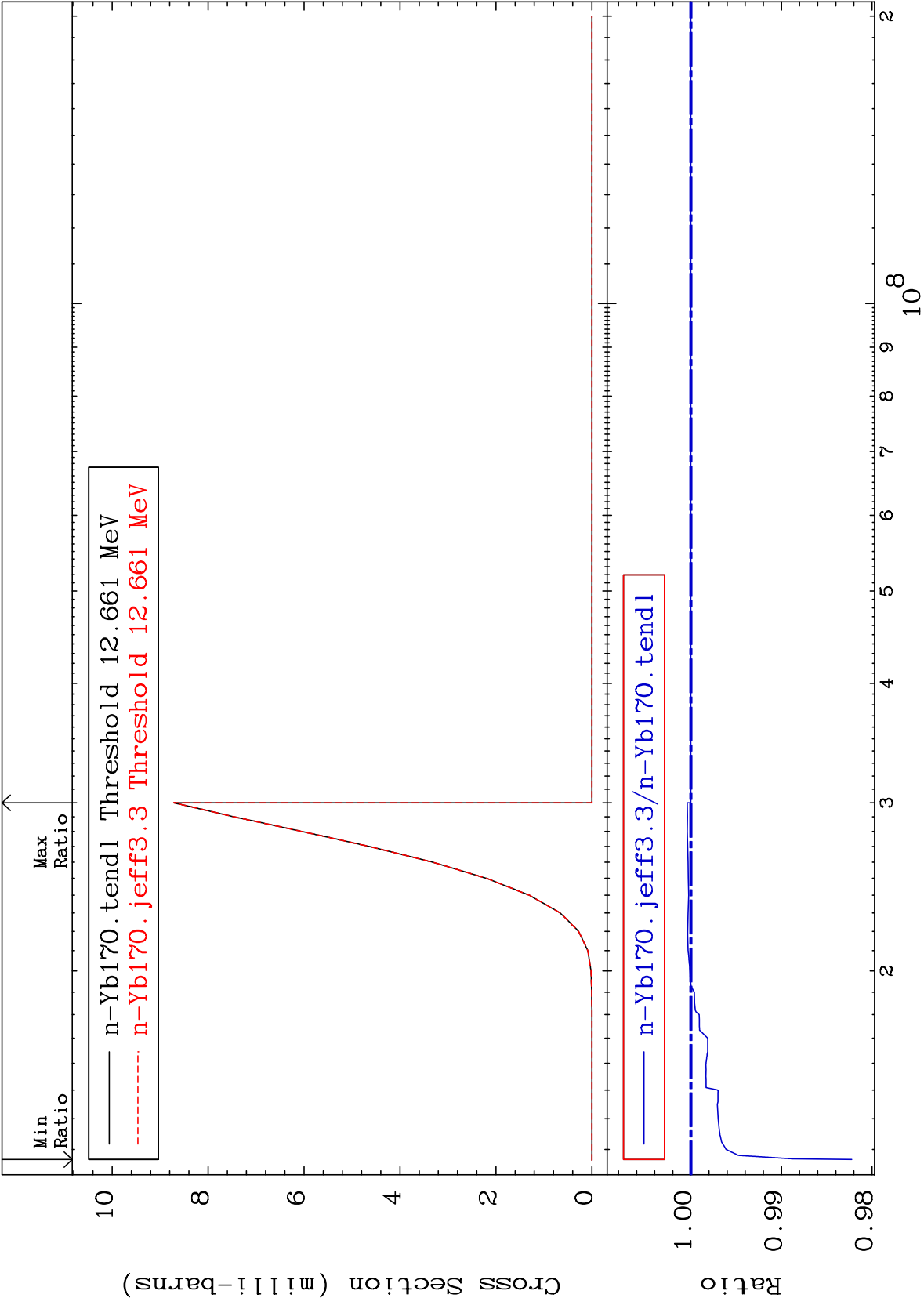
MAT 7031

(n,n') 2α
Cross Section
70-Yb-170
To 9999. %



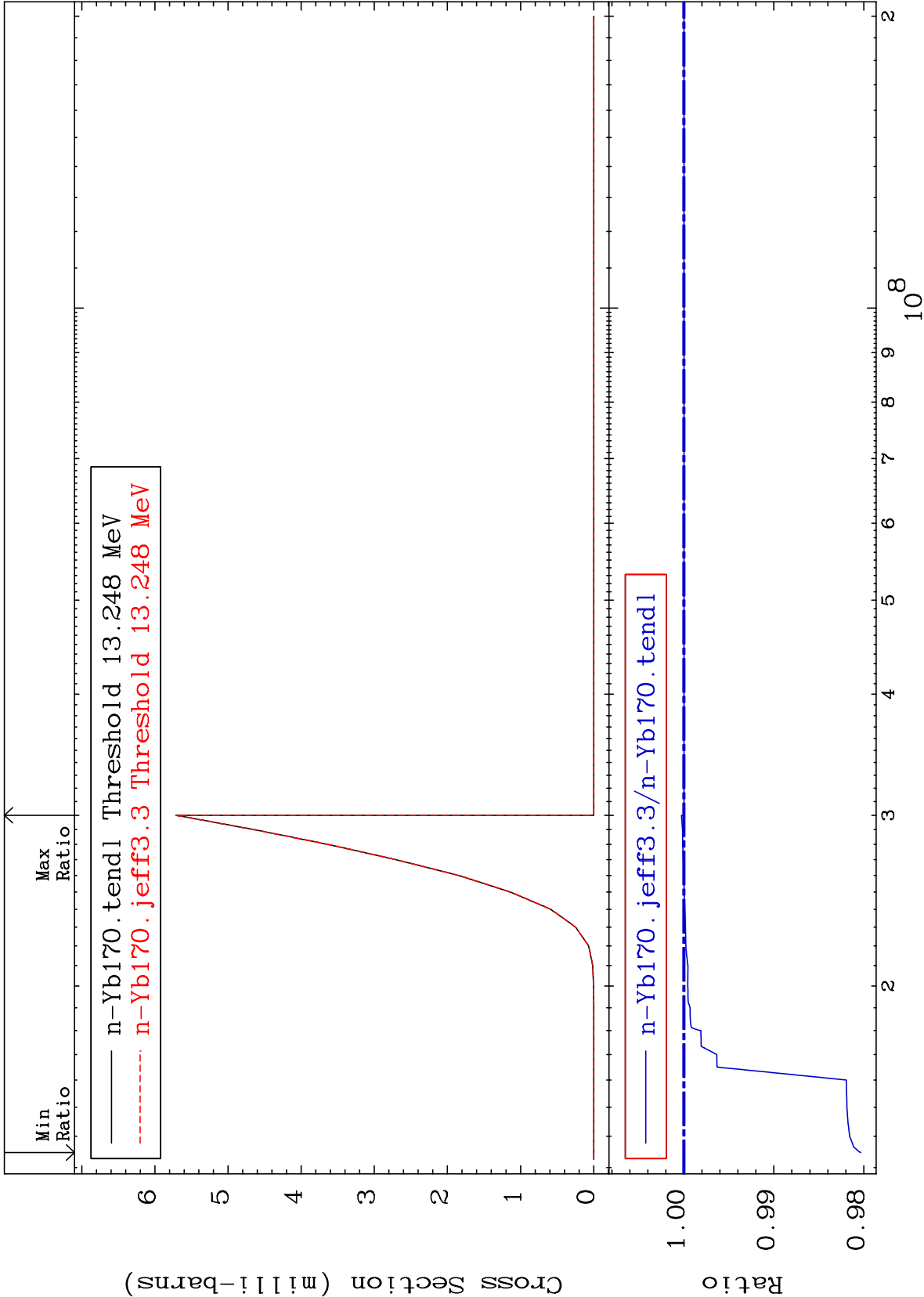
Cross Section

-1.778 To 0.041 %



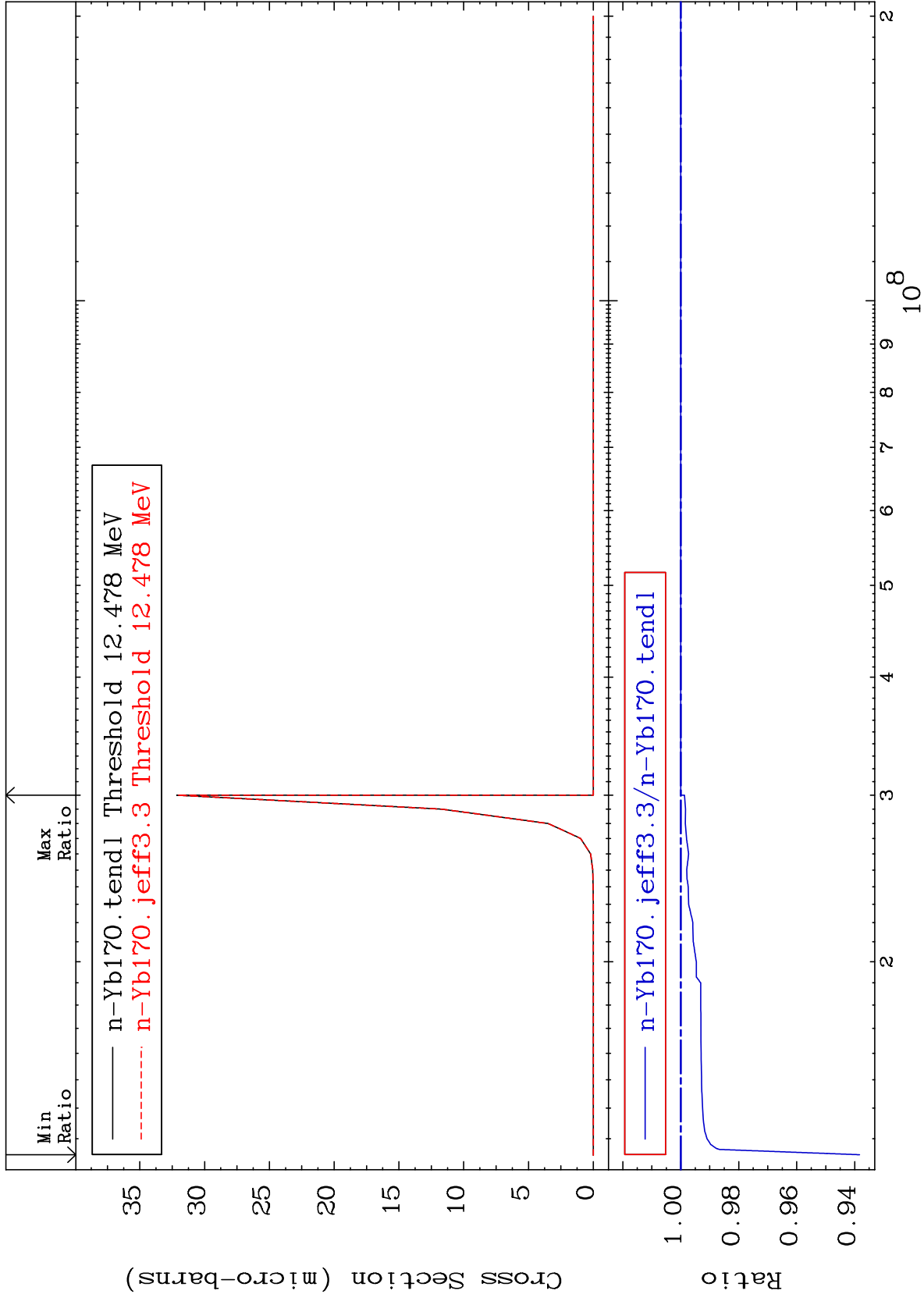
Cross Section

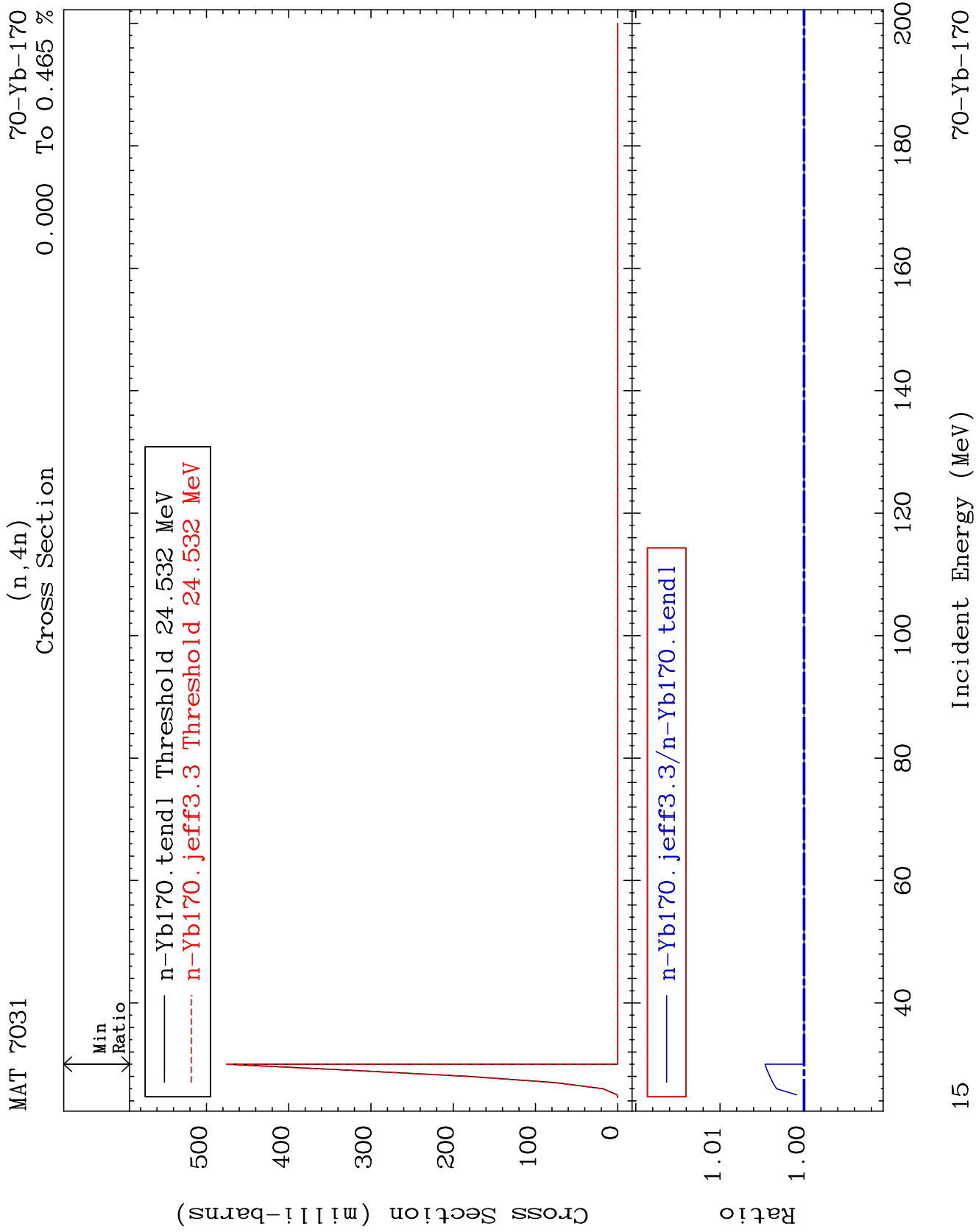
-1.967 To 0.026 %

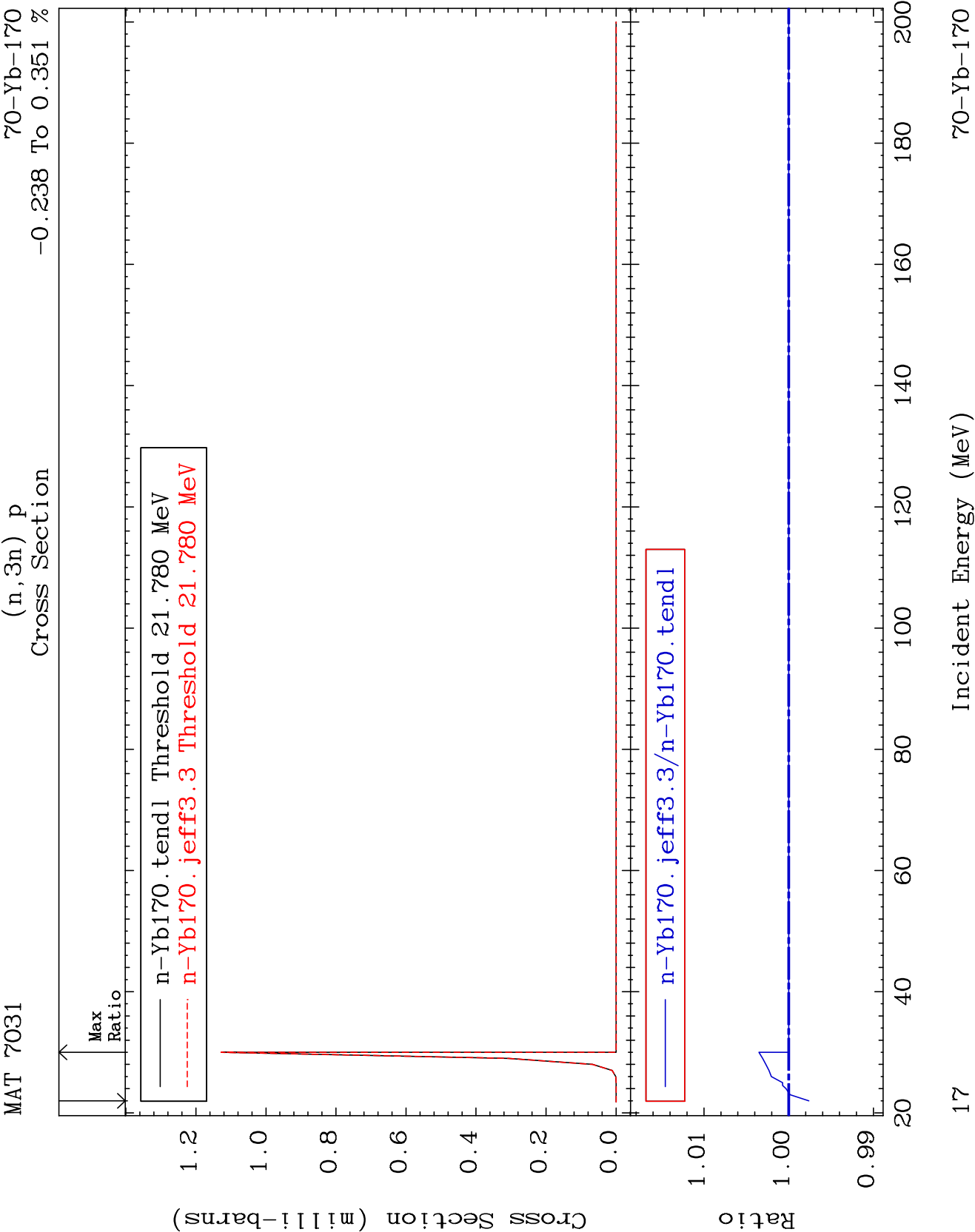


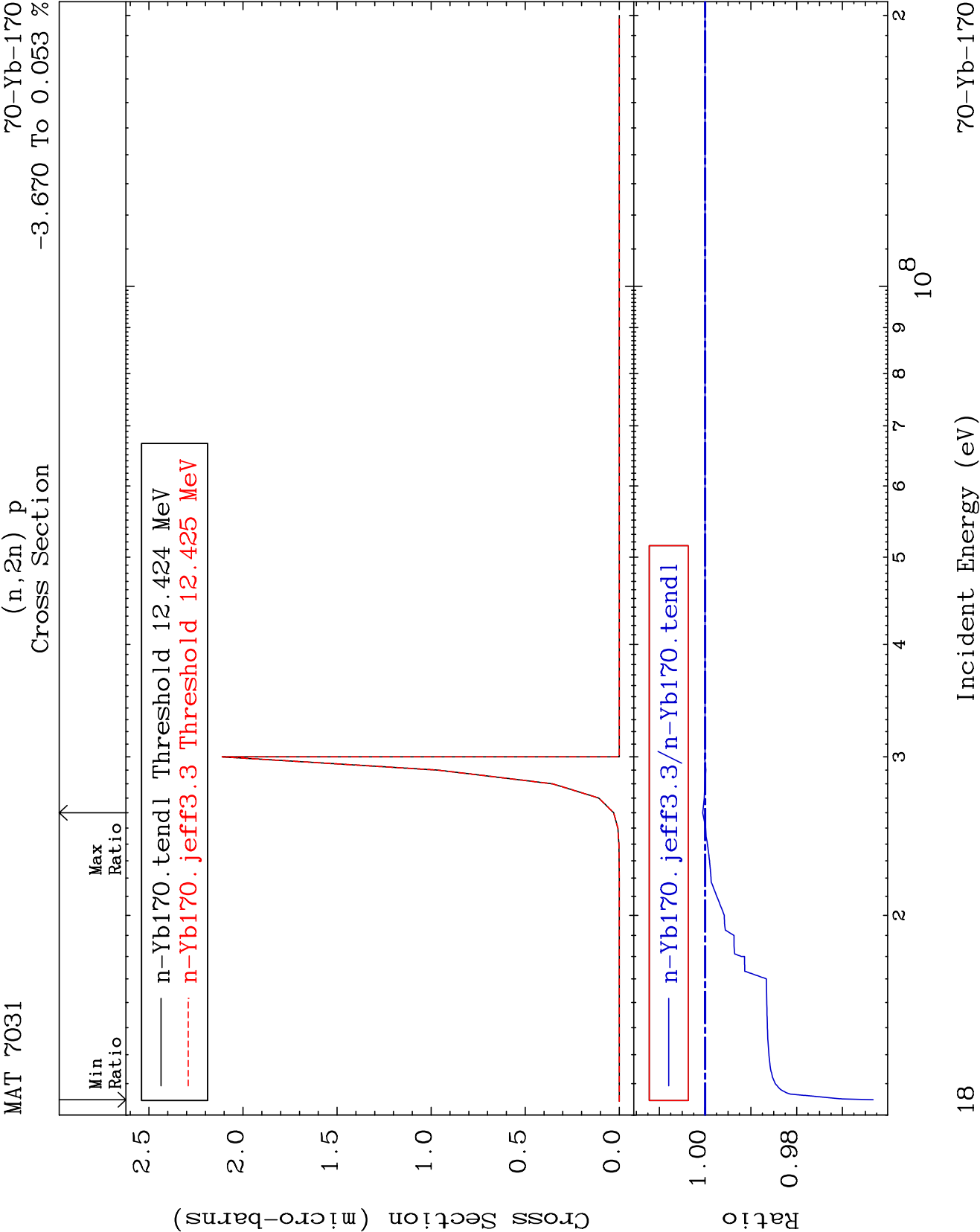
Cross Section

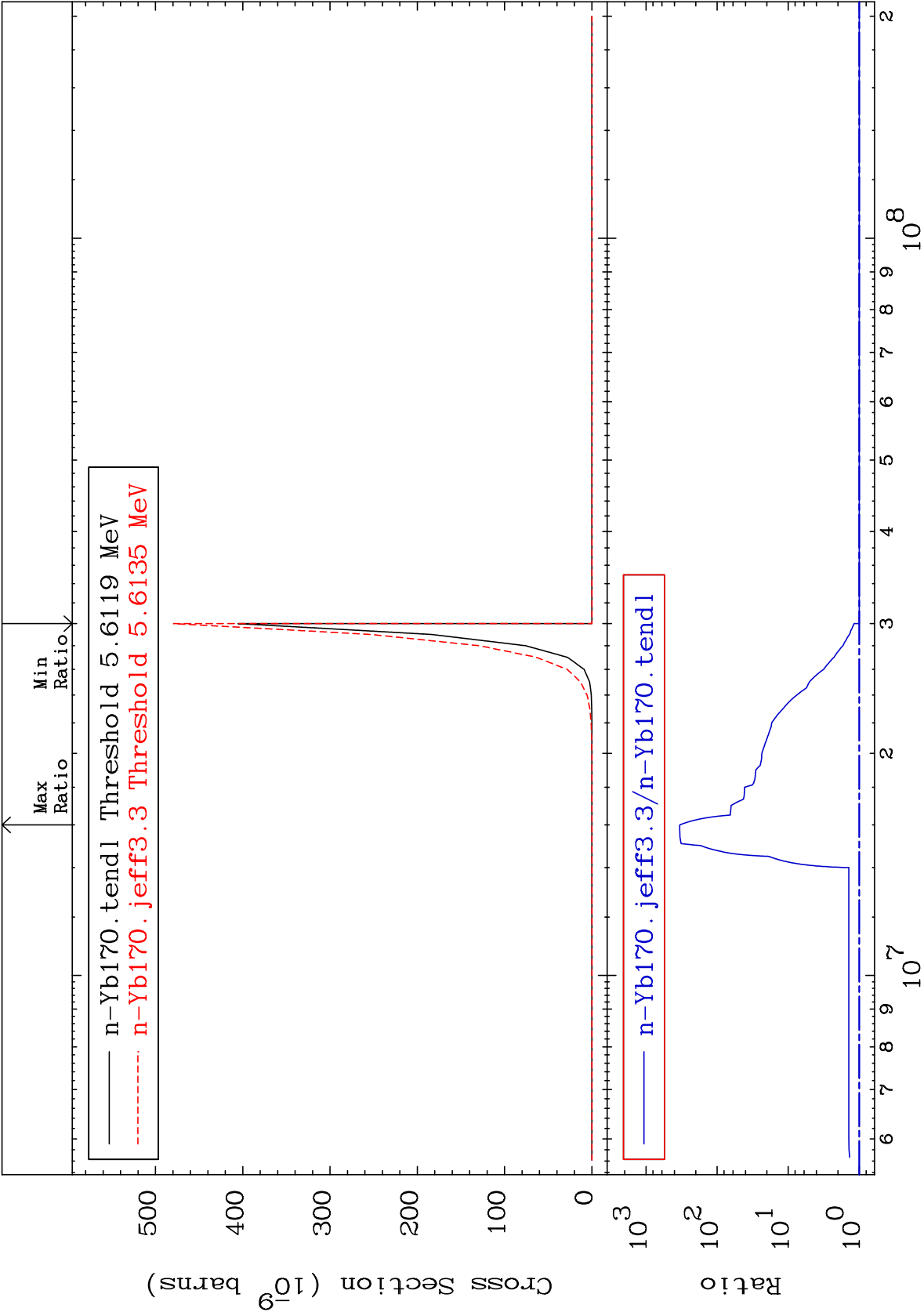
-6.166 To 0.000 %

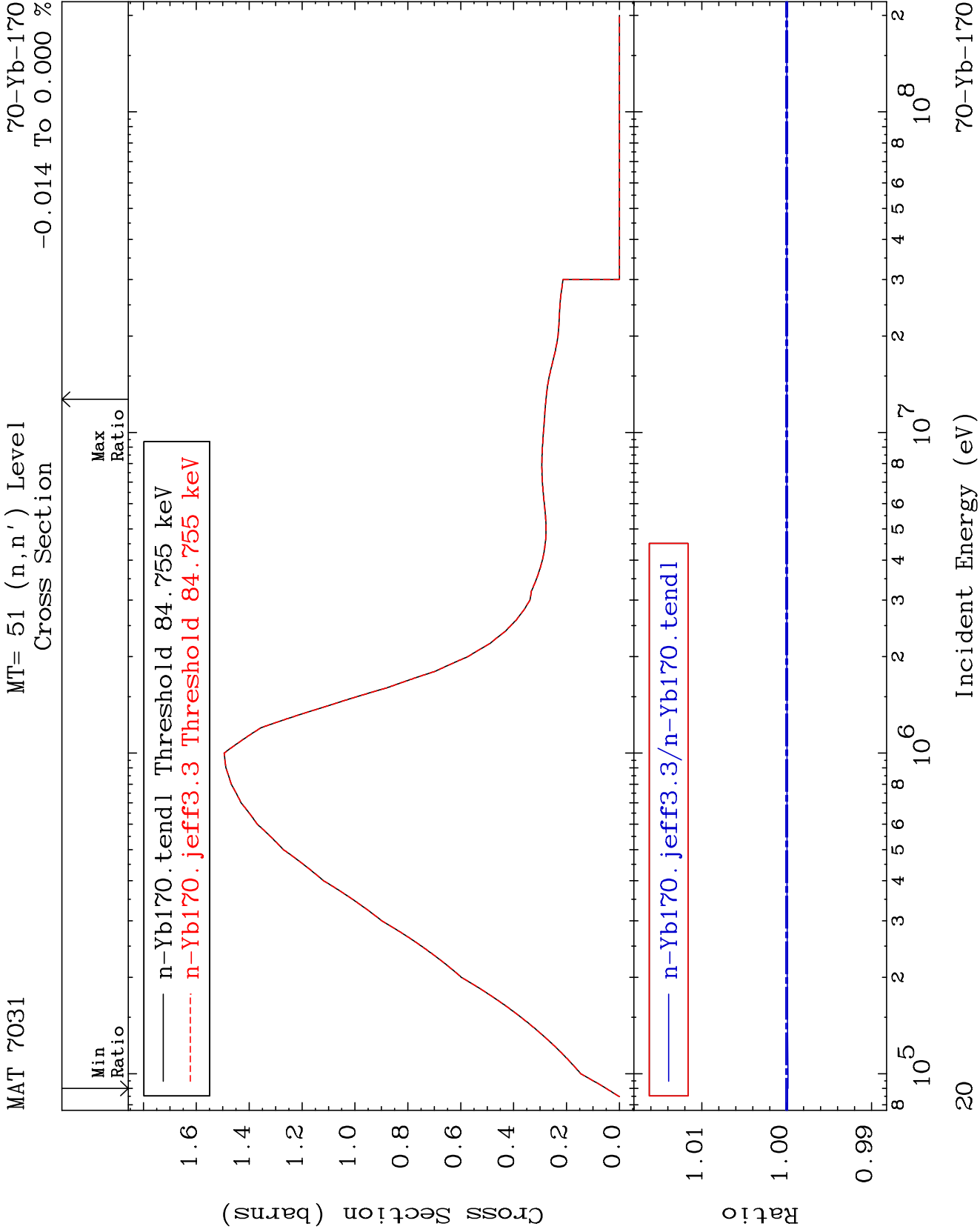


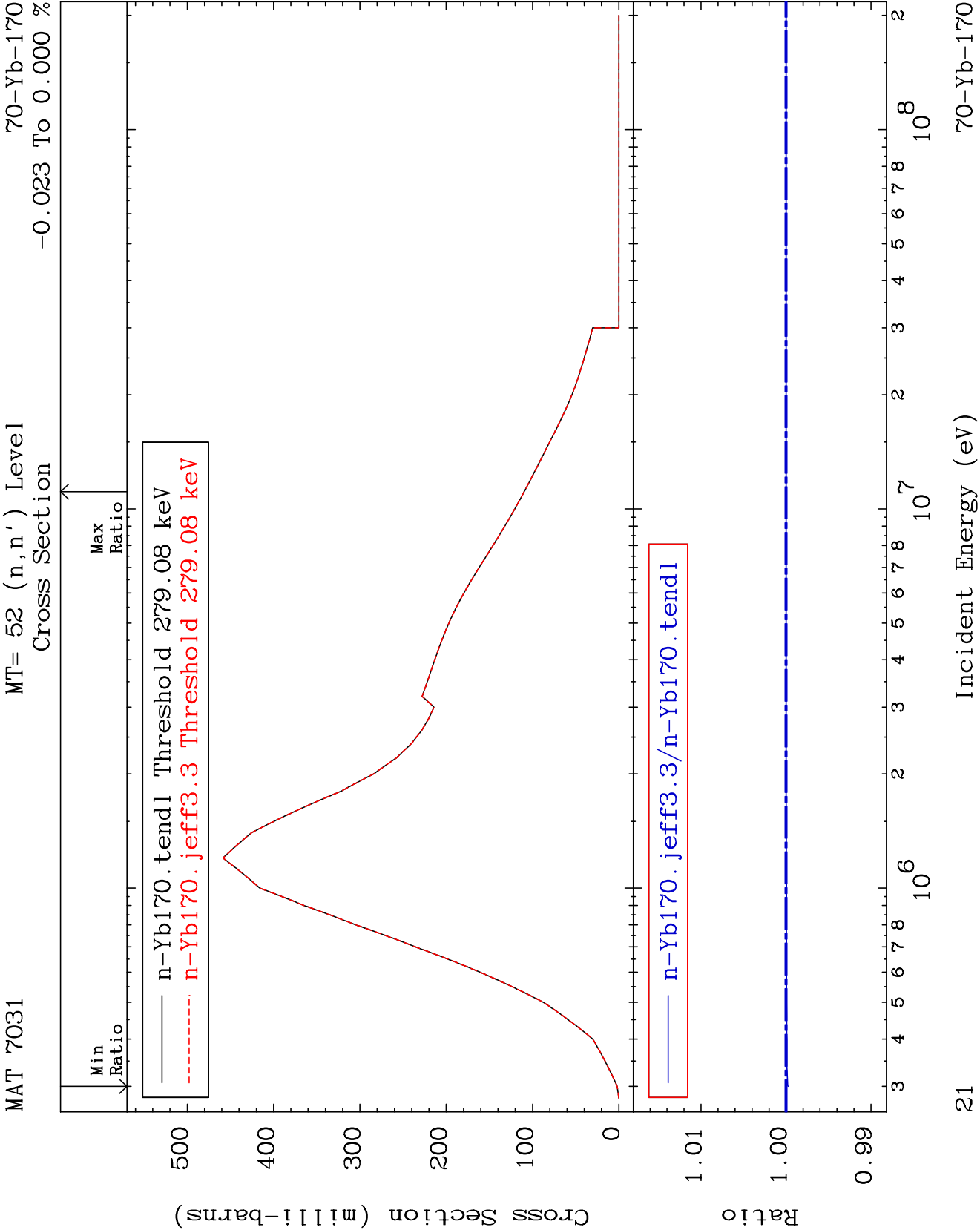


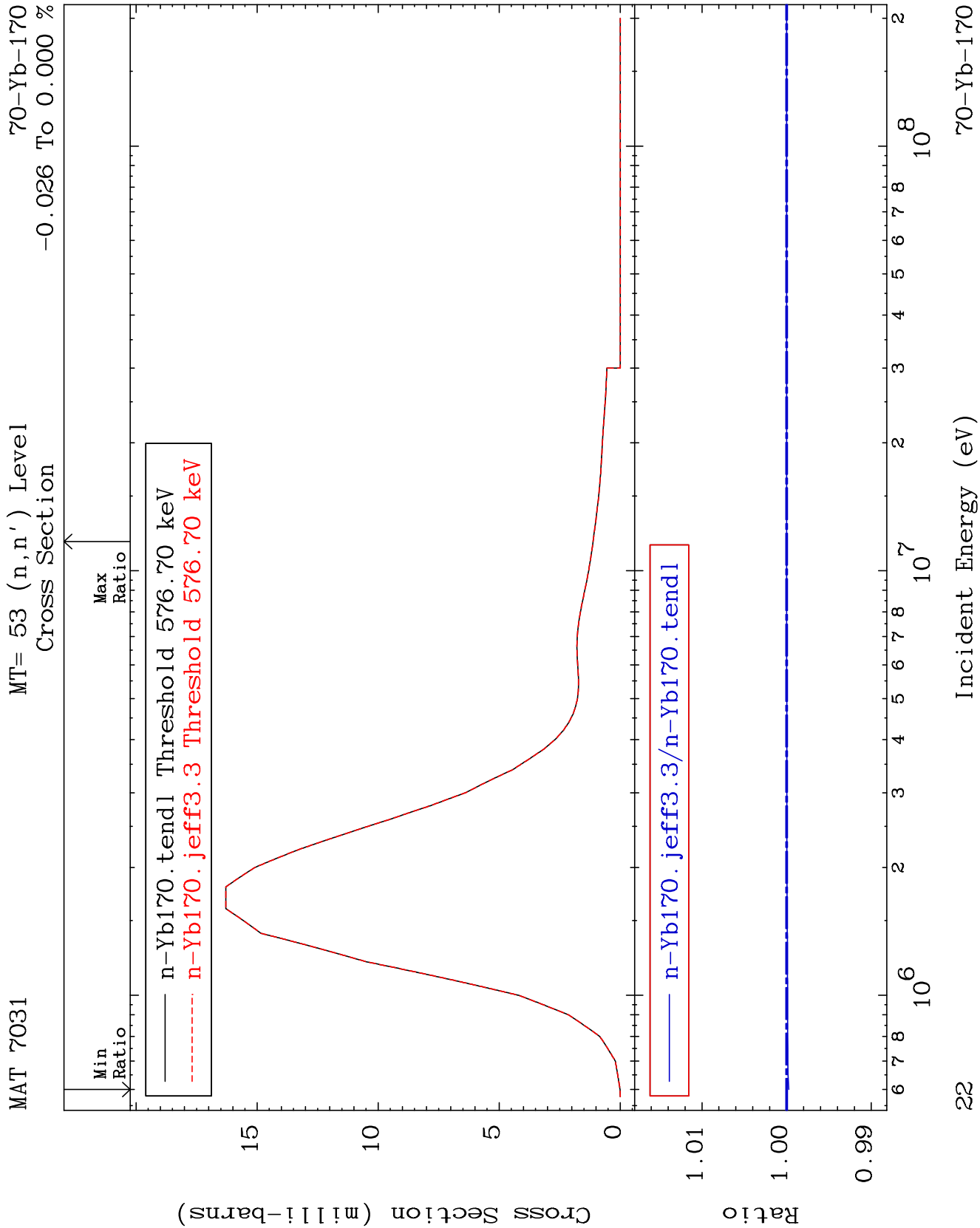












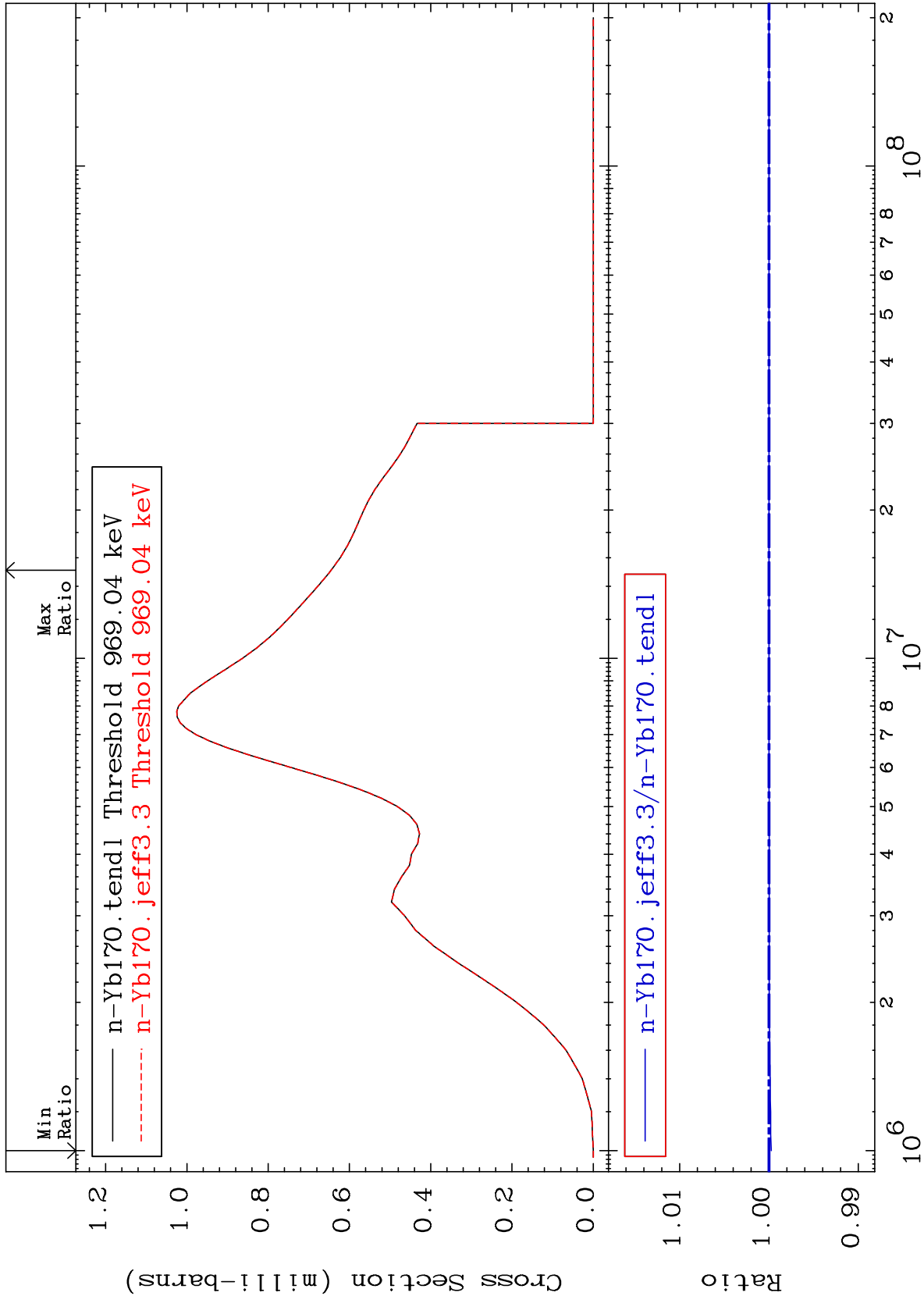
MAT 7031

MT= 54 (n,n') Level

⁷⁰Yb-¹⁷⁰

Cross Section

-0.026 To 0.000 %



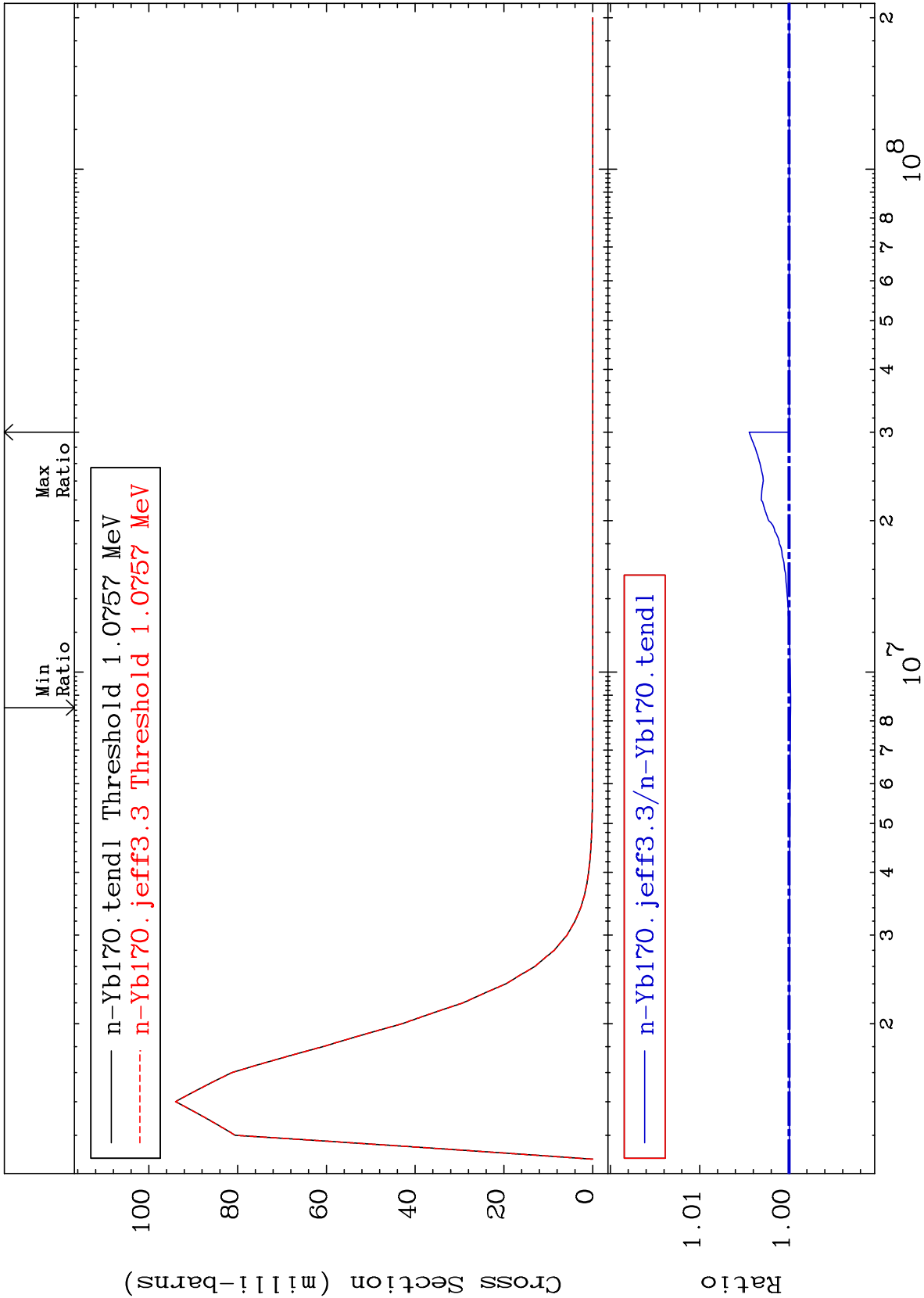
MAT 7031

MT= 55 (n,n') Level

⁷⁰Yb-¹⁷⁰

Cross Section

-0.017 To 0.446 %



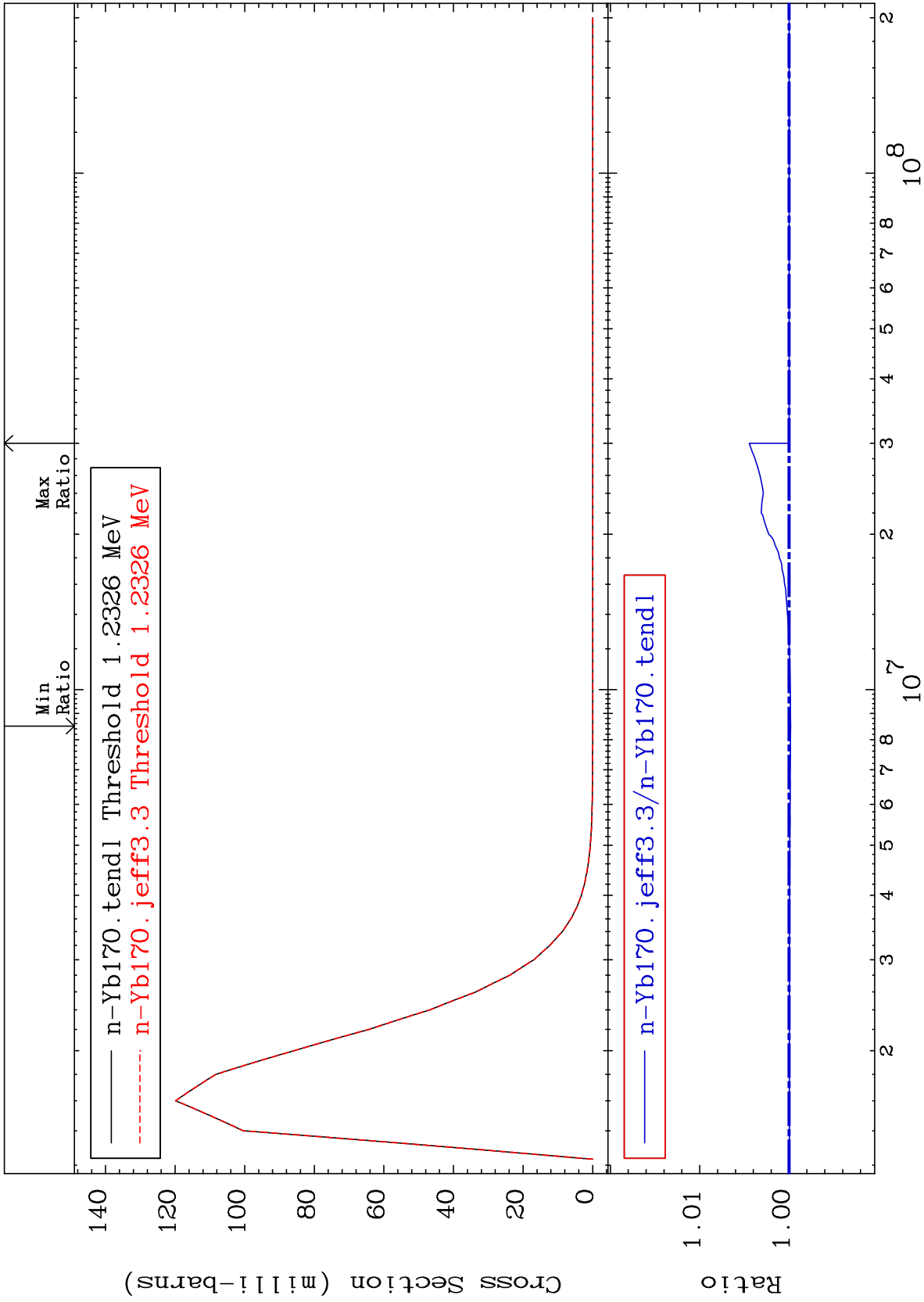
MAT 7031

MT= 58 (n,n') Level

70-Yb-170

Cross Section

-0.016 To 0.446 %



25

Incident Energy (eV)

70-Yb-170

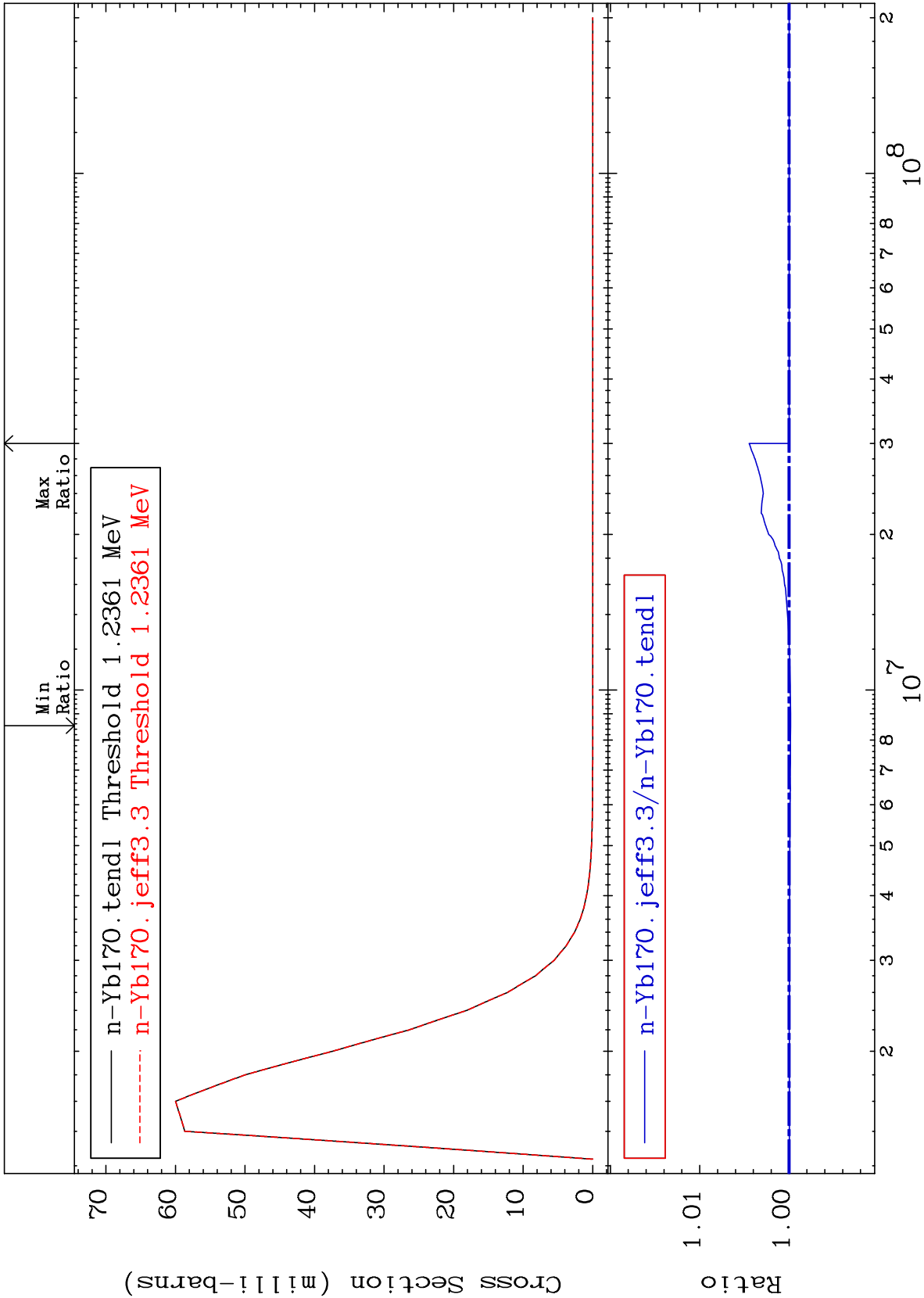
MAT 7031

MT= 59 (n,n') Level

⁷⁰Yb-¹⁷⁰

Cross Section

-0.017 To 0.446 %



26

Incident Energy (eV)

⁷⁰Yb-¹⁷⁰

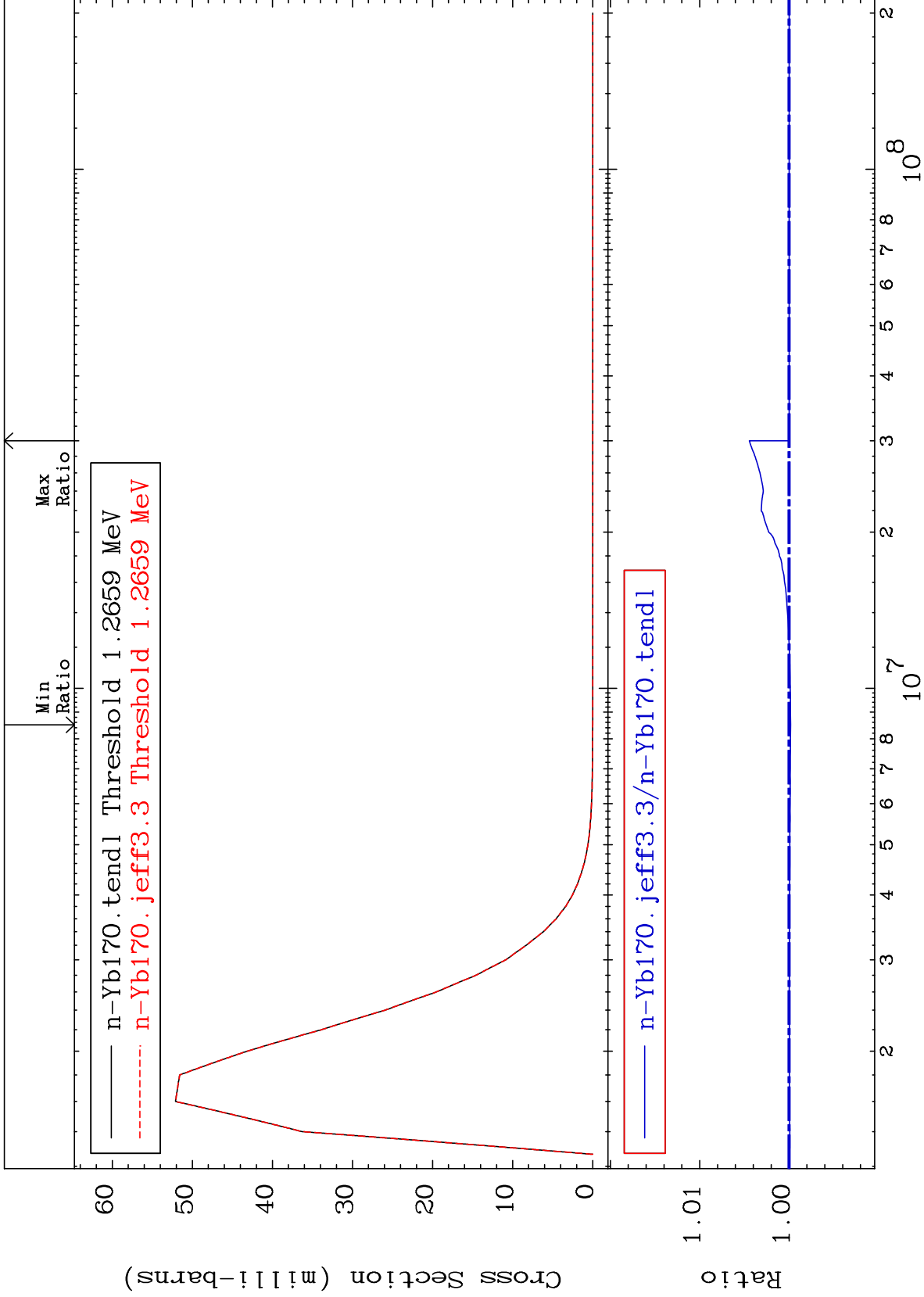
MAT 7031

MT= 60 (n,n') Level

⁷⁰Yb-¹⁷⁰

Cross Section

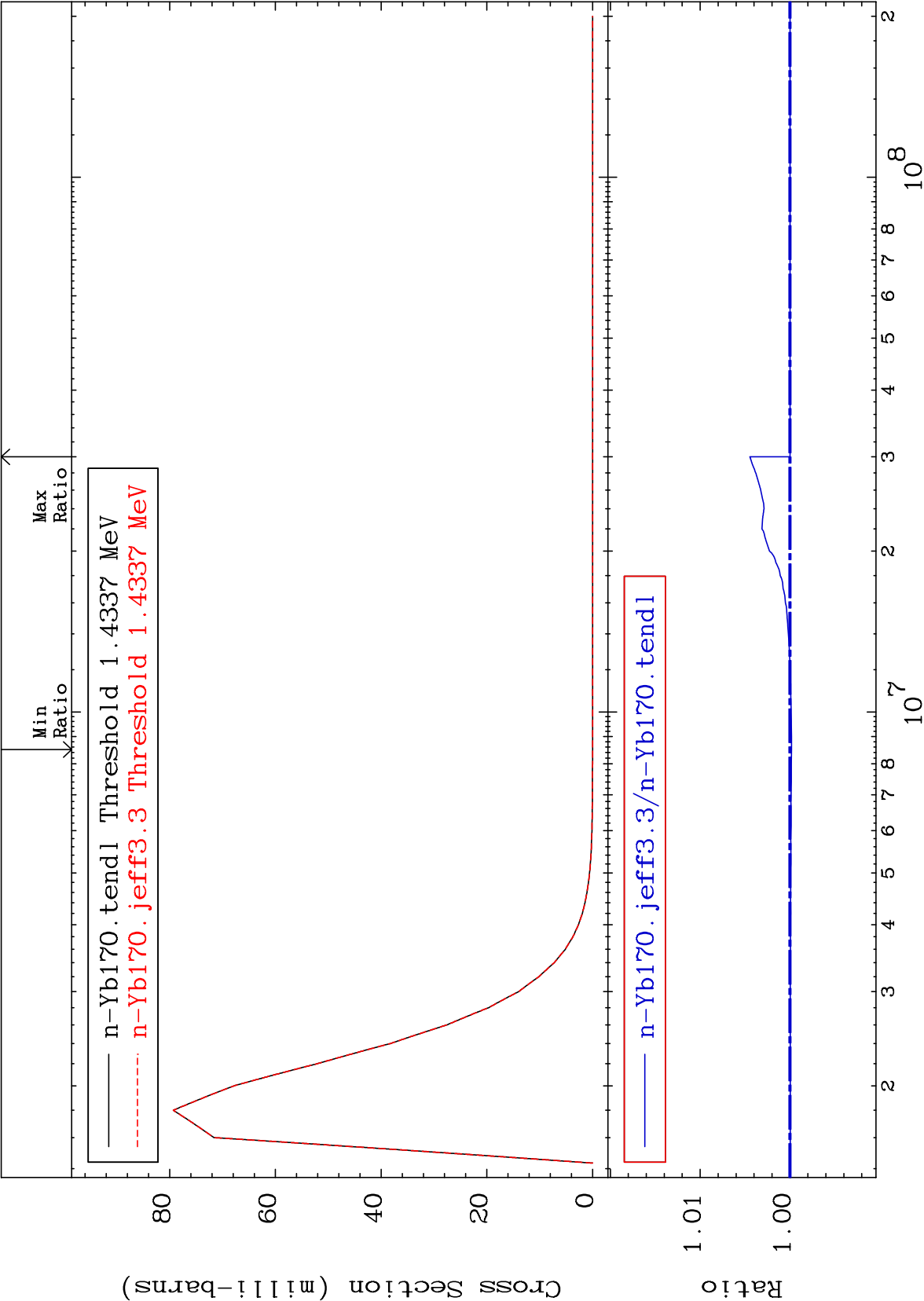
-0.016 To 0.445 %

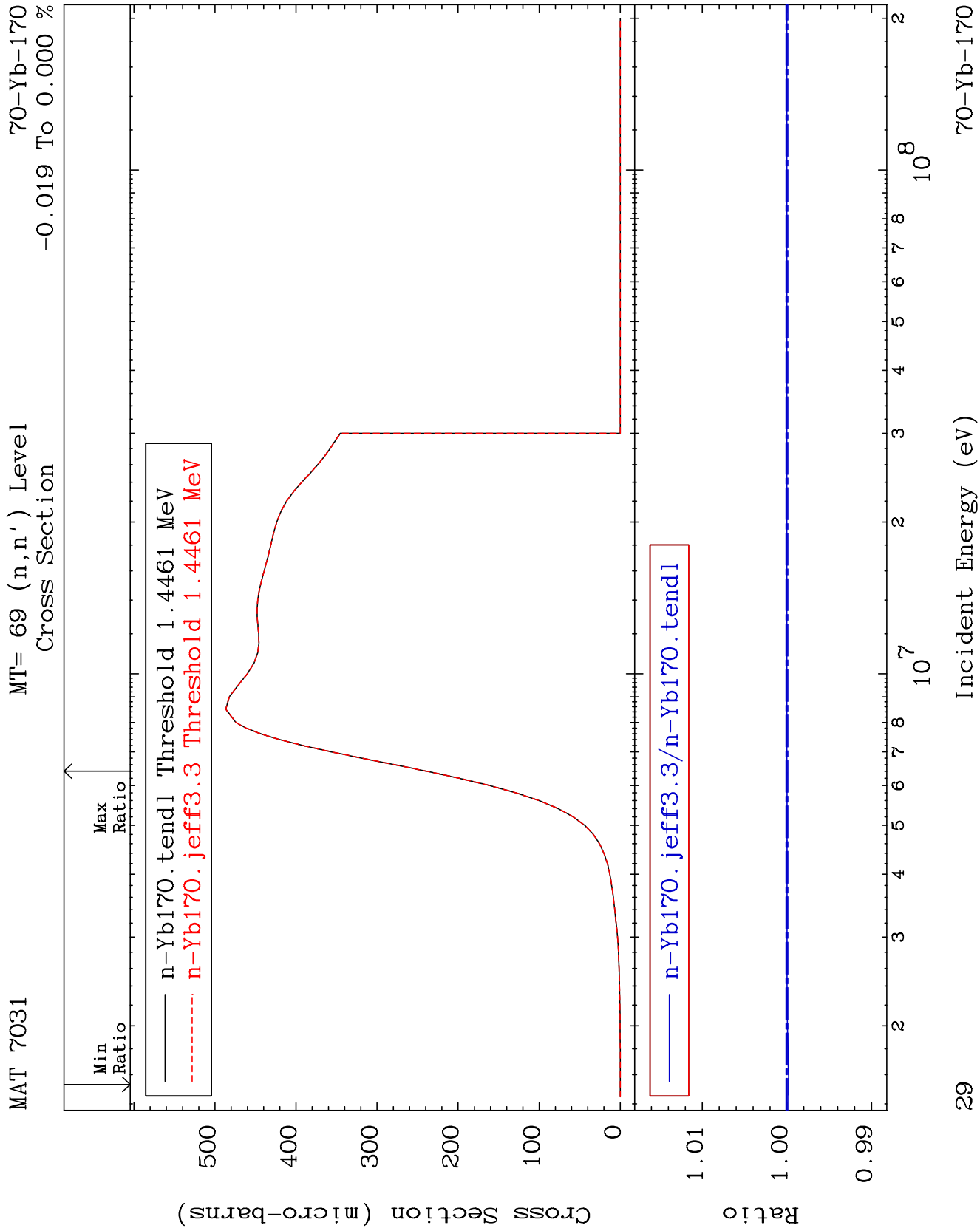


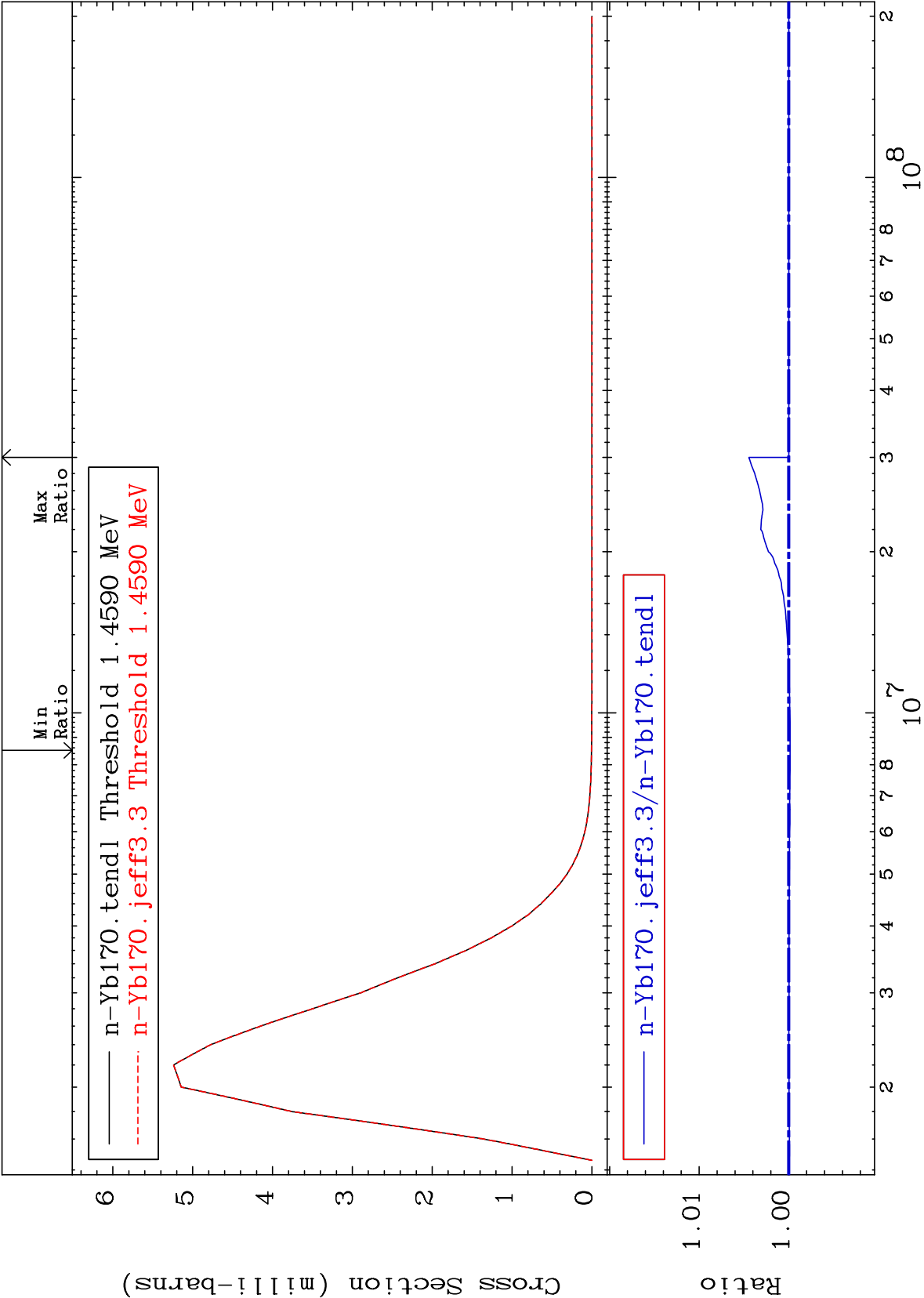
27

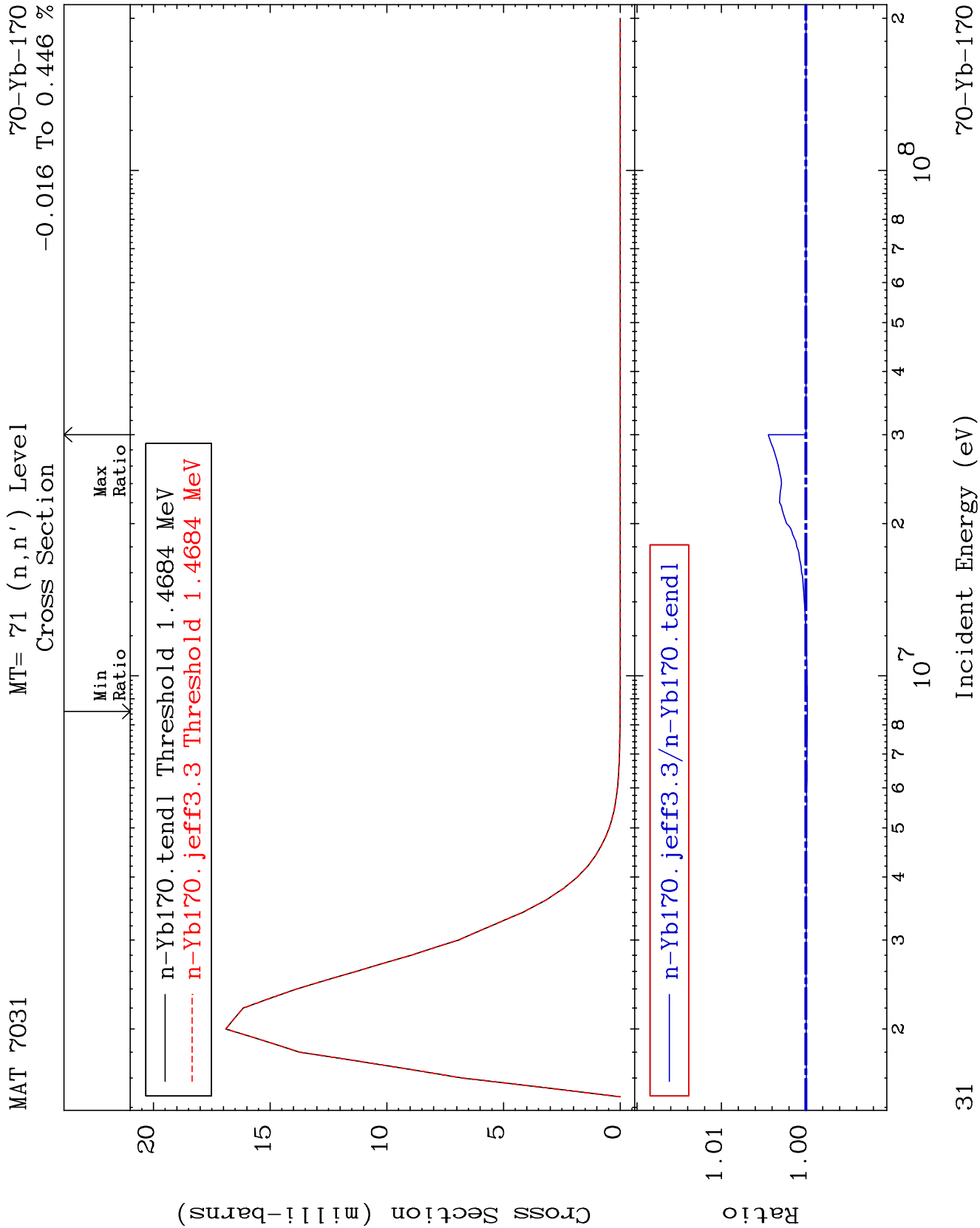
Incident Energy (eV)

⁷⁰Yb-¹⁷⁰









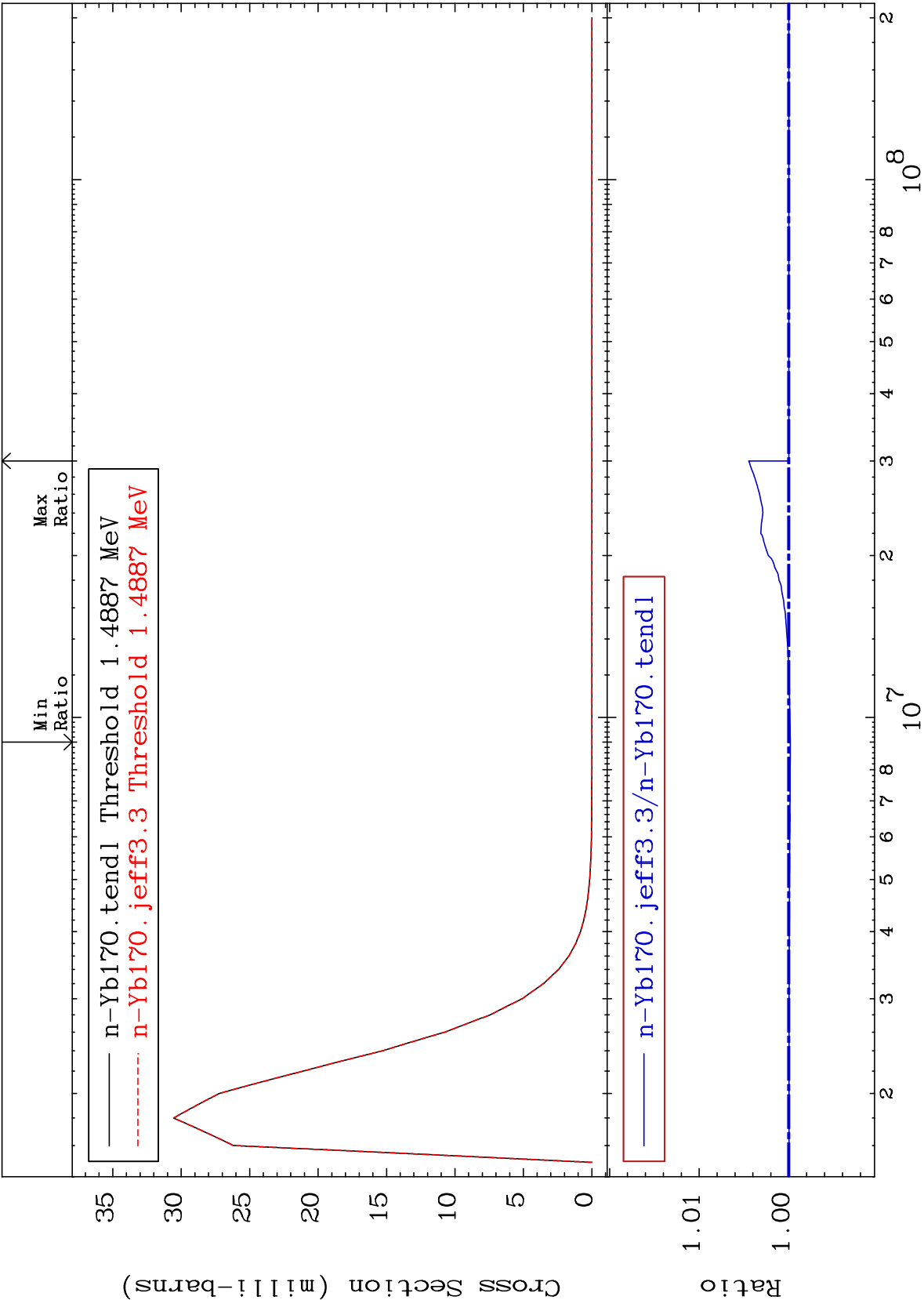
MAT 7031

MT= 72 (n,n') Level

70-Yb-170

-0.016 To 0.446 %

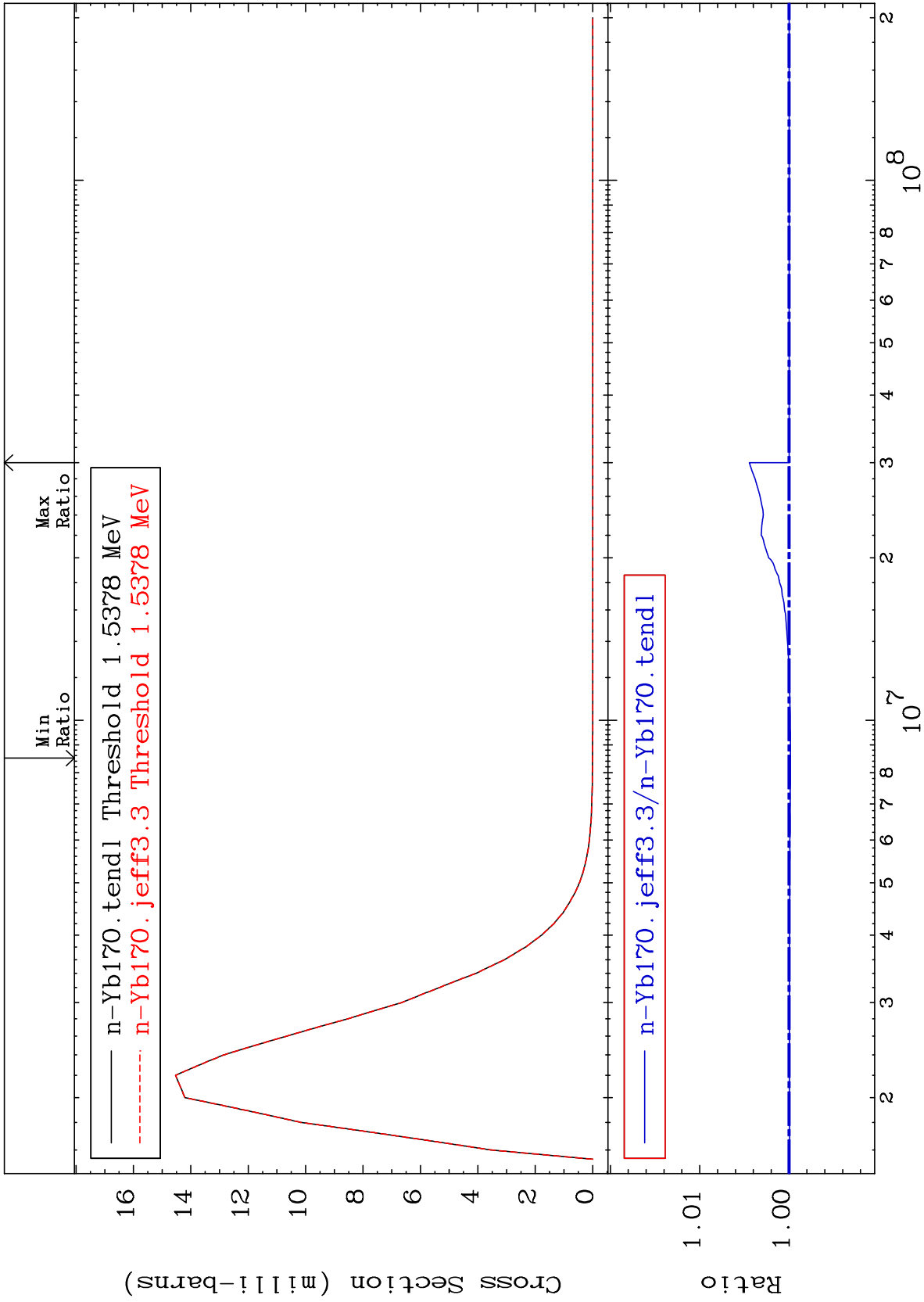
Cross Section



32

Incident Energy (eV)

70-Yb-170



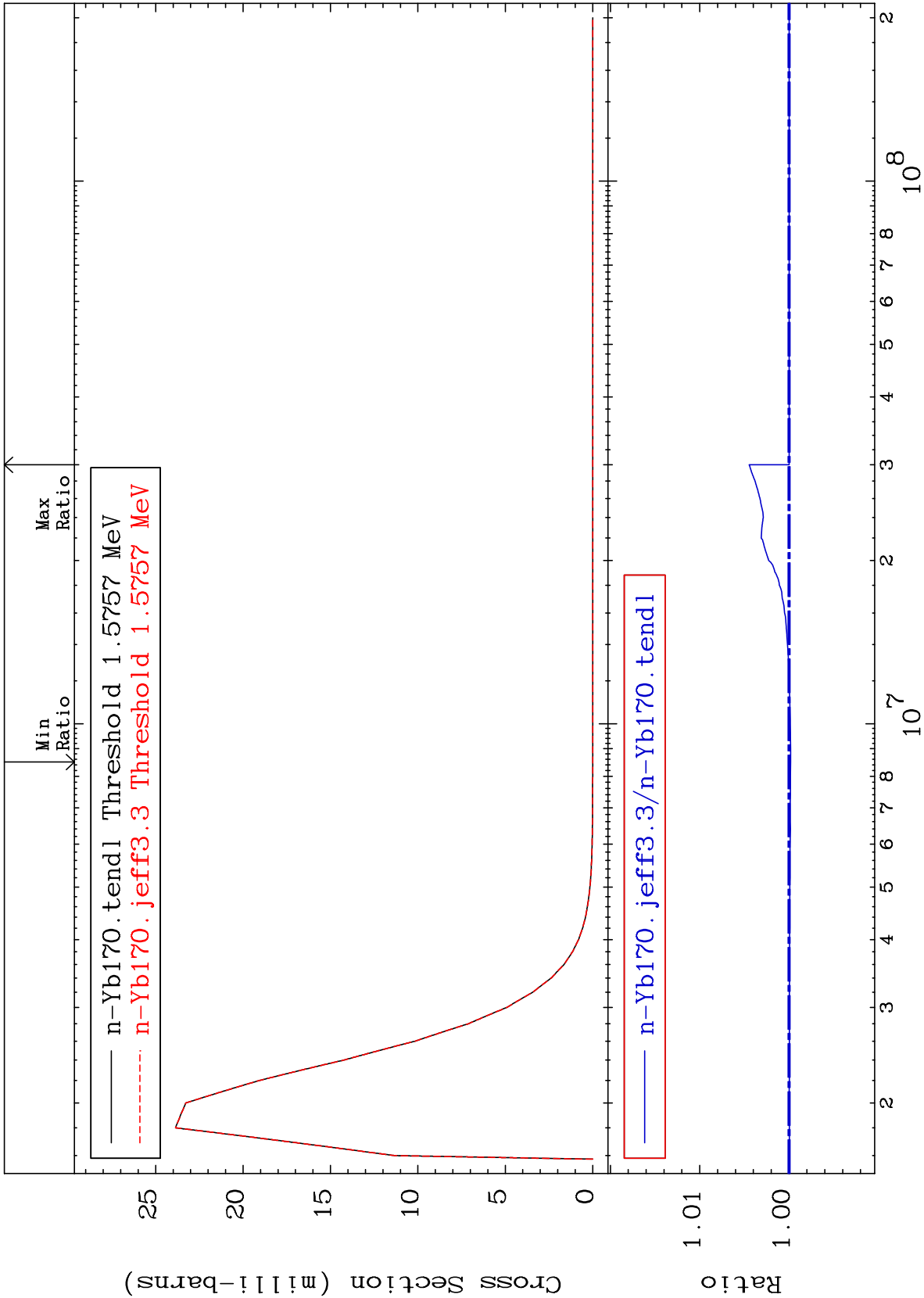
MAT 7031

MT= 79 (n,n') Level

⁷⁰Yb-¹⁷⁰

-0.017 To 0.446 %

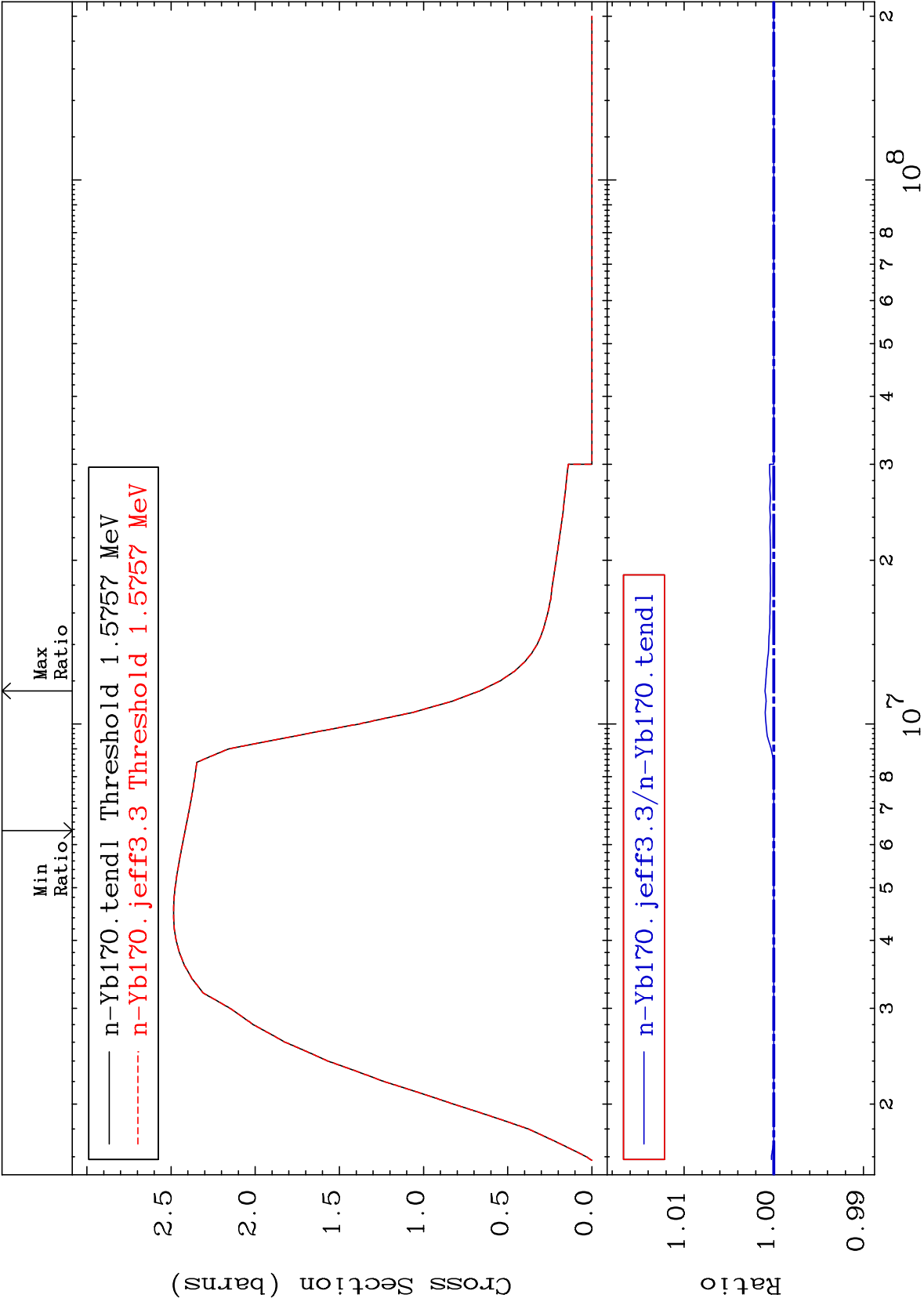
Cross Section

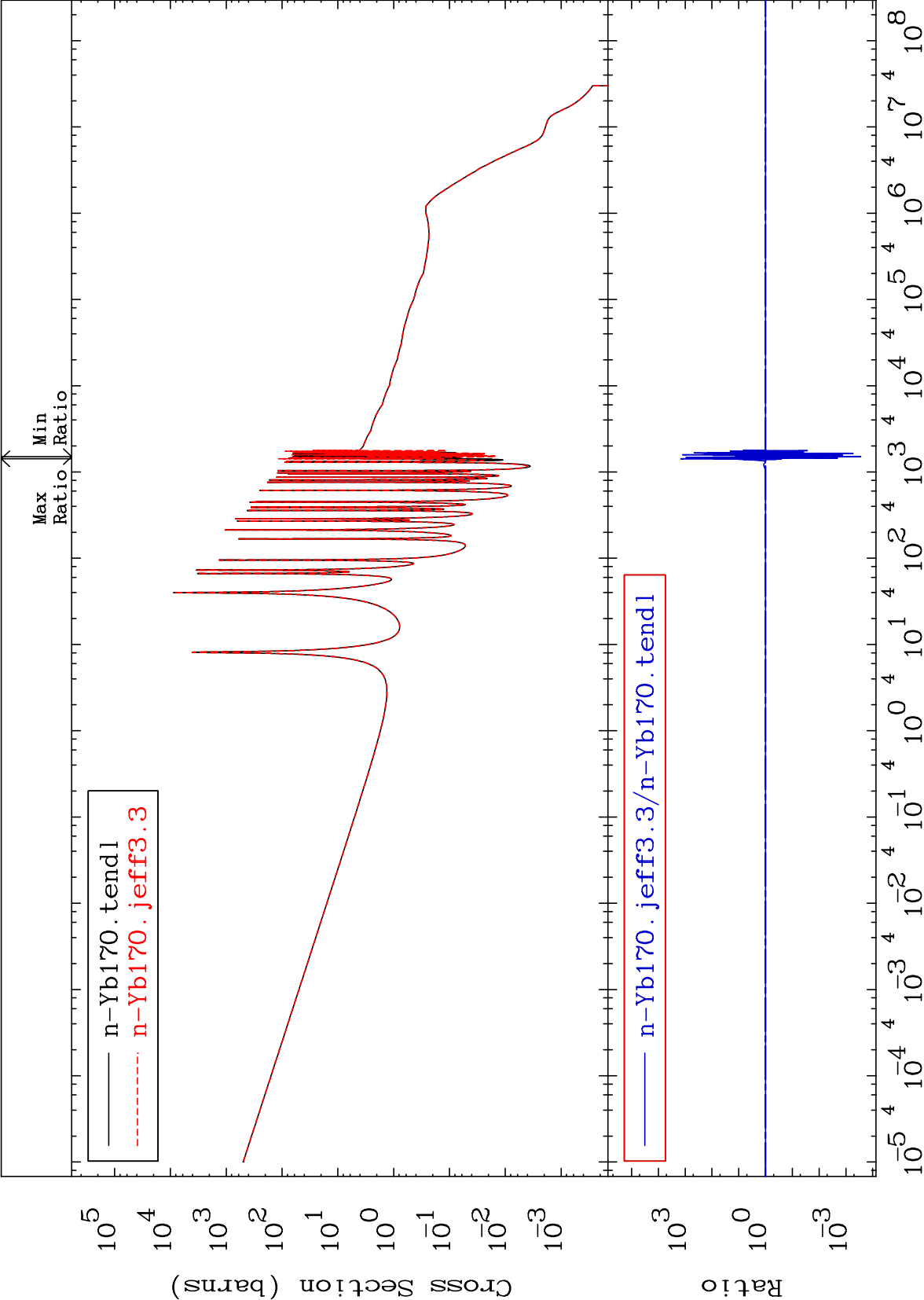


34

Incident Energy (eV)

⁷⁰Yb-¹⁷⁰





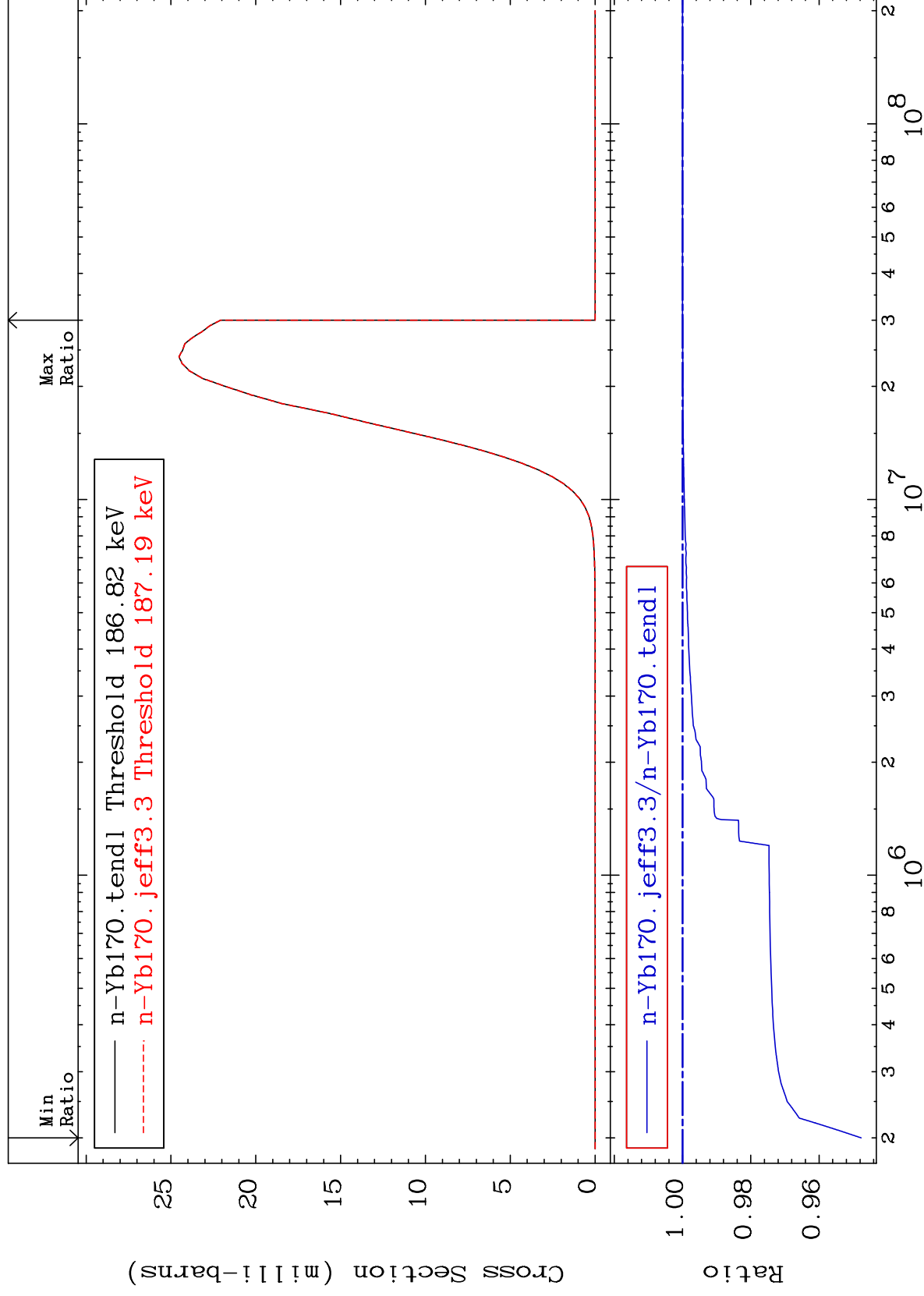
MAT 7031

(n,p)

Cross Section

⁷⁰Yb-¹⁷⁰

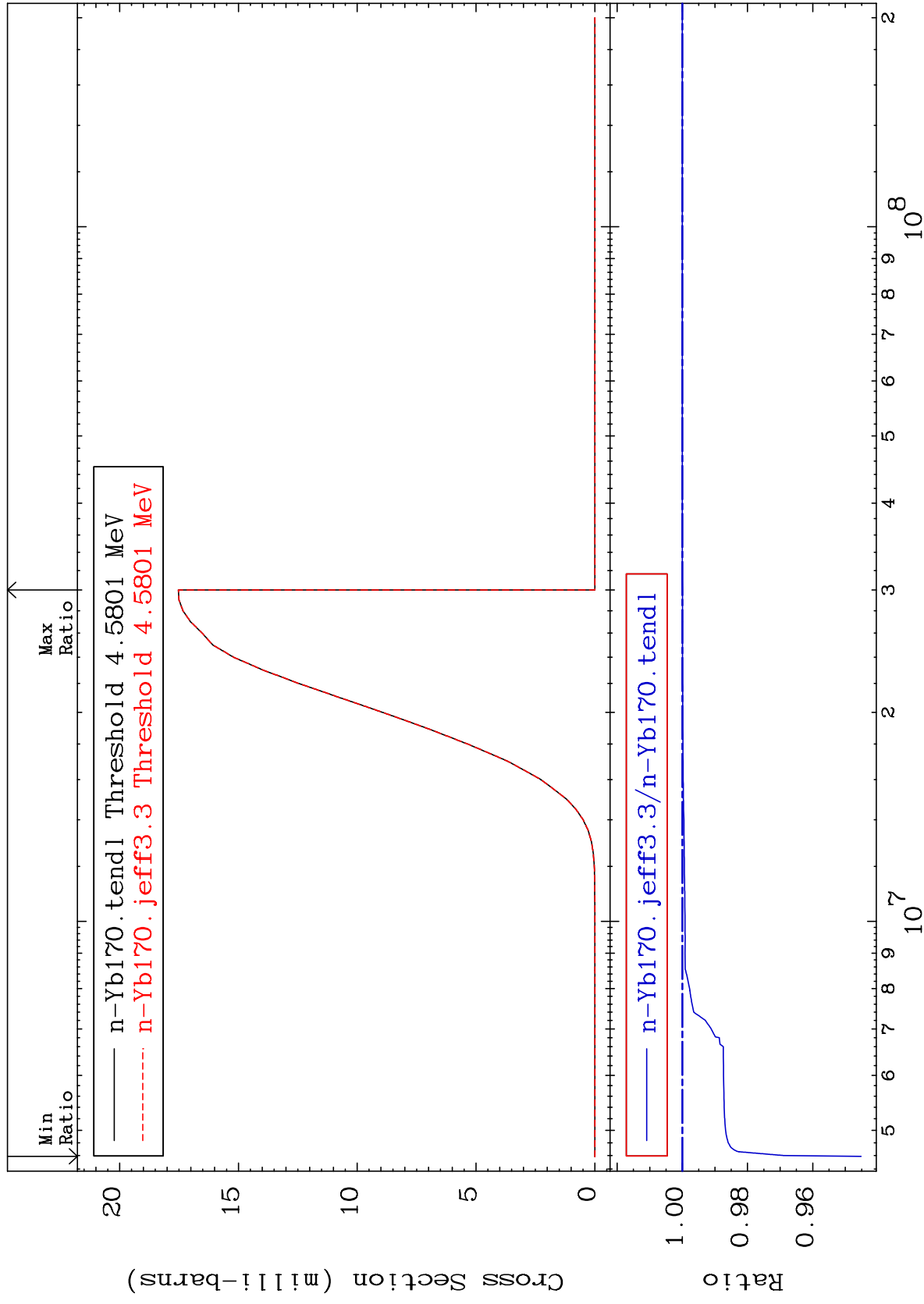
-5.232 To 0.000 %

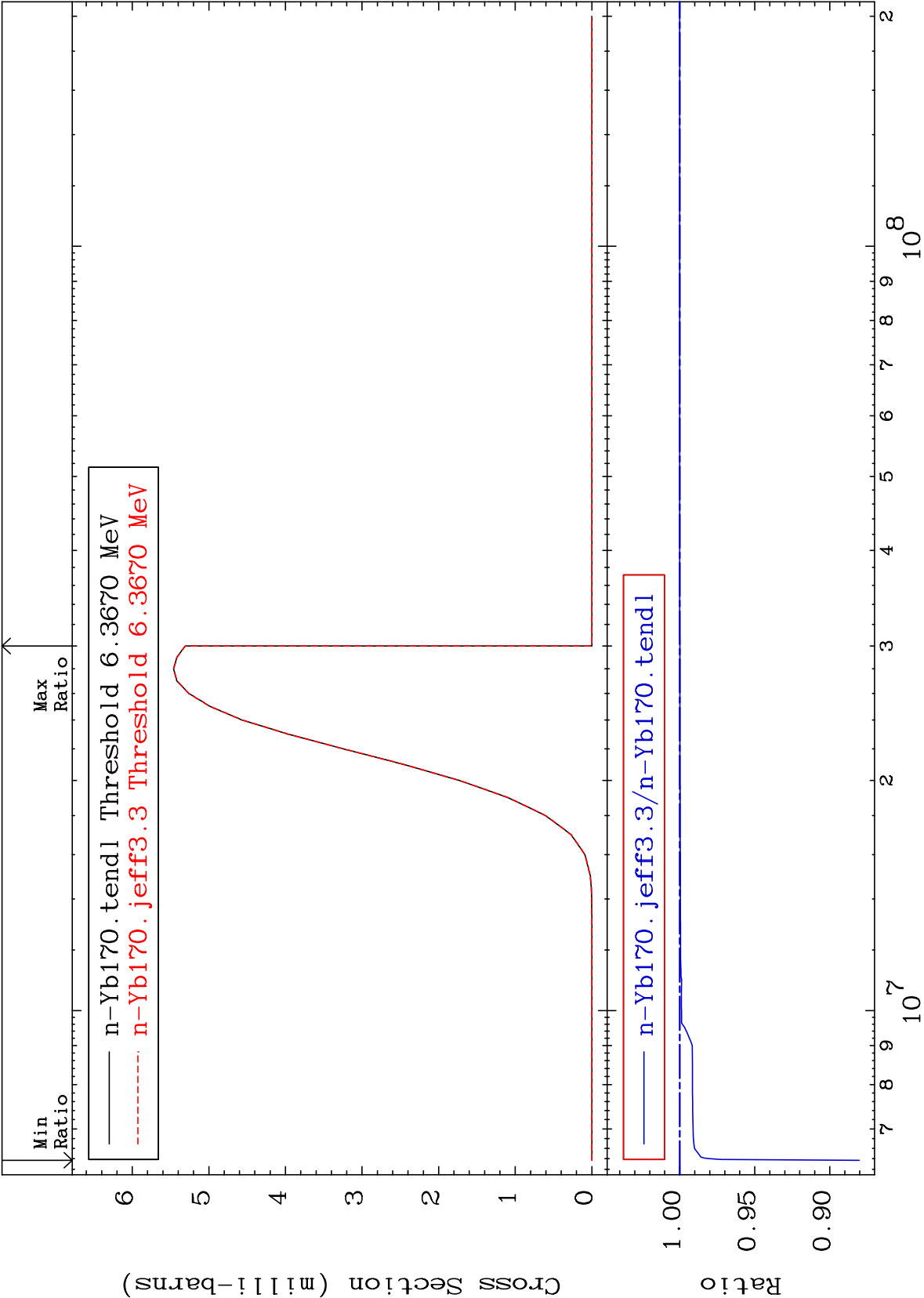


37

Incident Energy (eV)

⁷⁰Yb-¹⁷⁰





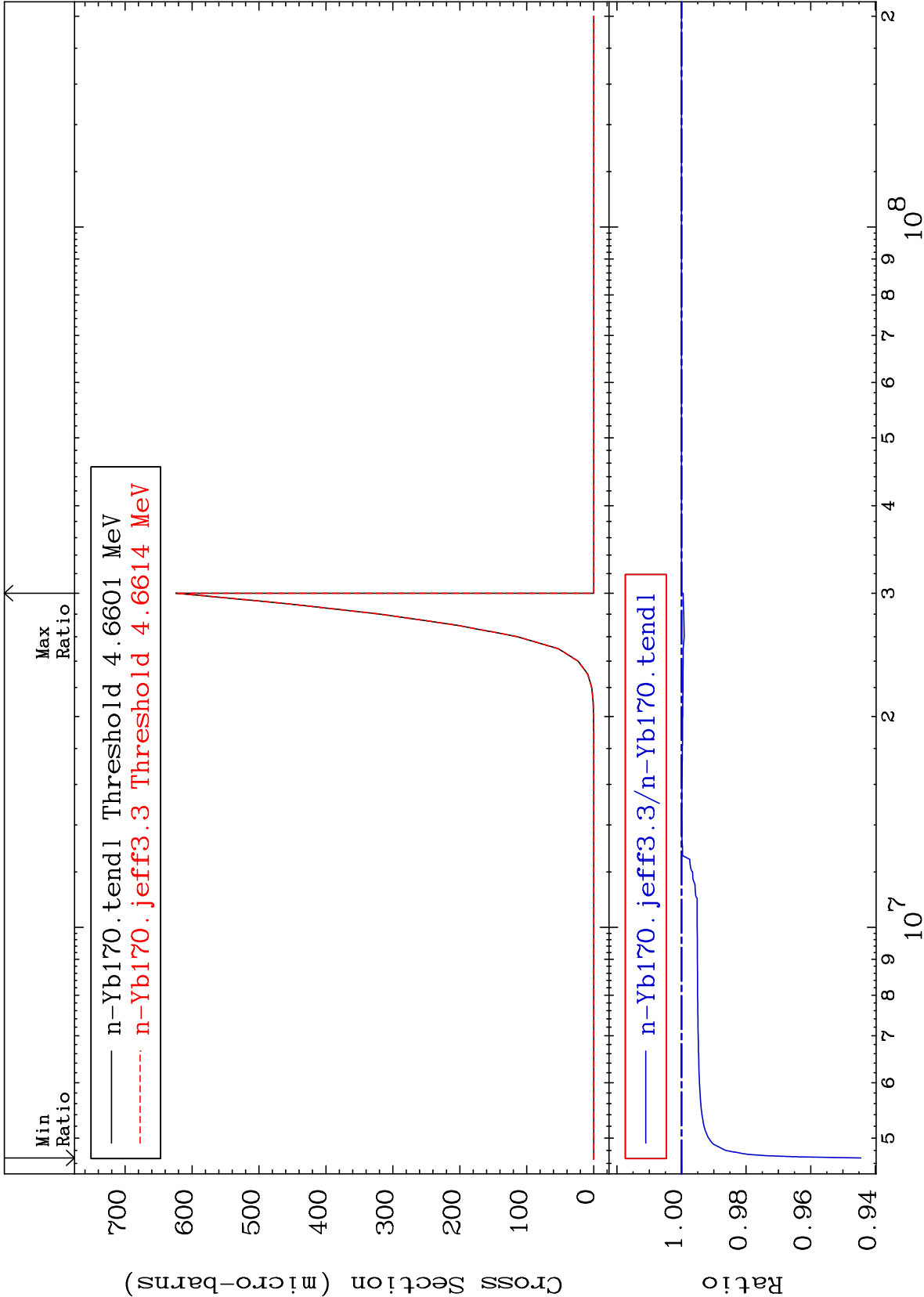
MAT 7031

(n,He-3)

70-Yb-170

Cross Section

-5.556 To 0.000 %



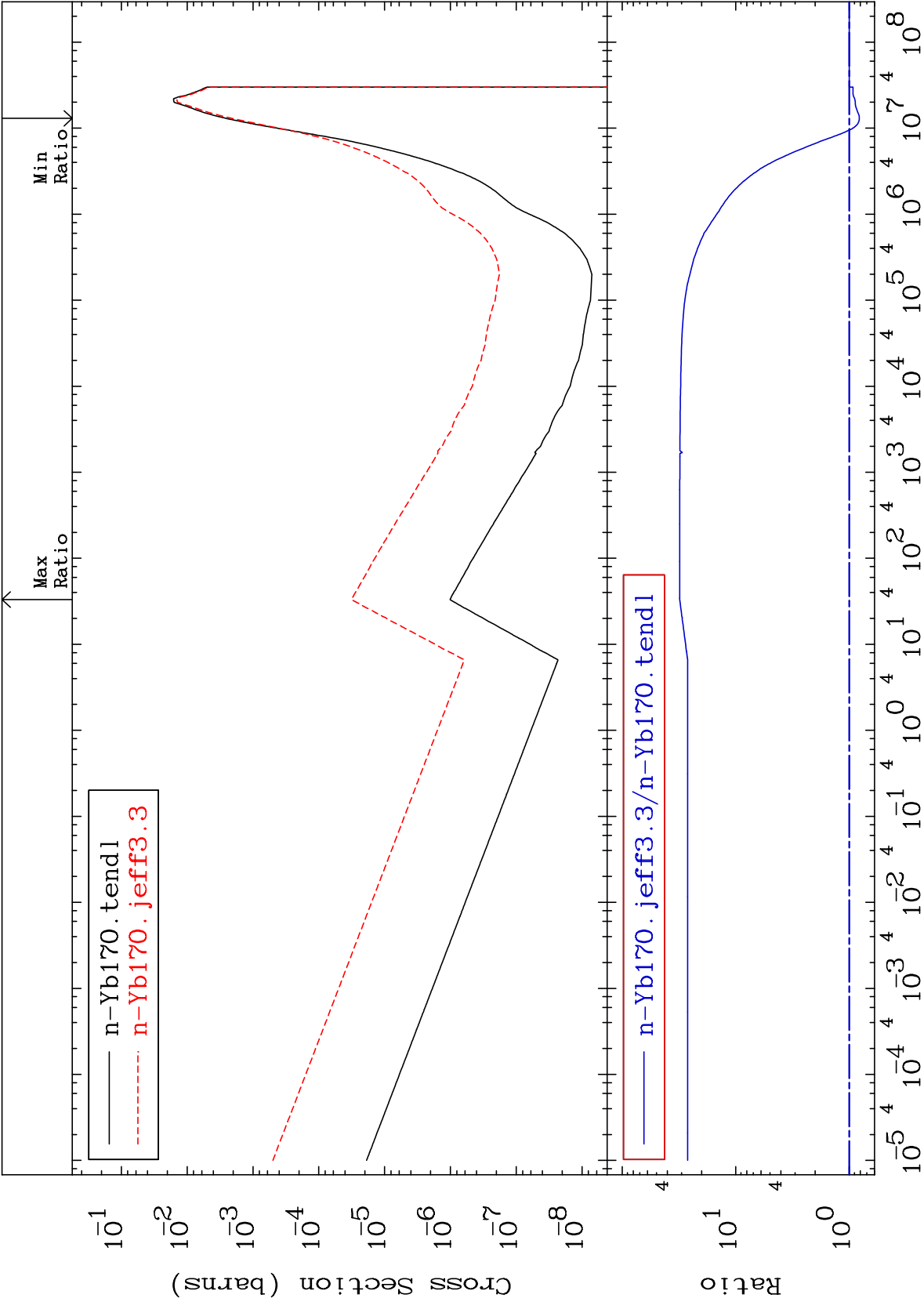
40

Incident Energy (eV)

70-Yb-170

MAT 7031

(n, α)
Cross Section
70-Yb-170
-18.37 To 3015. %



MAT 7031

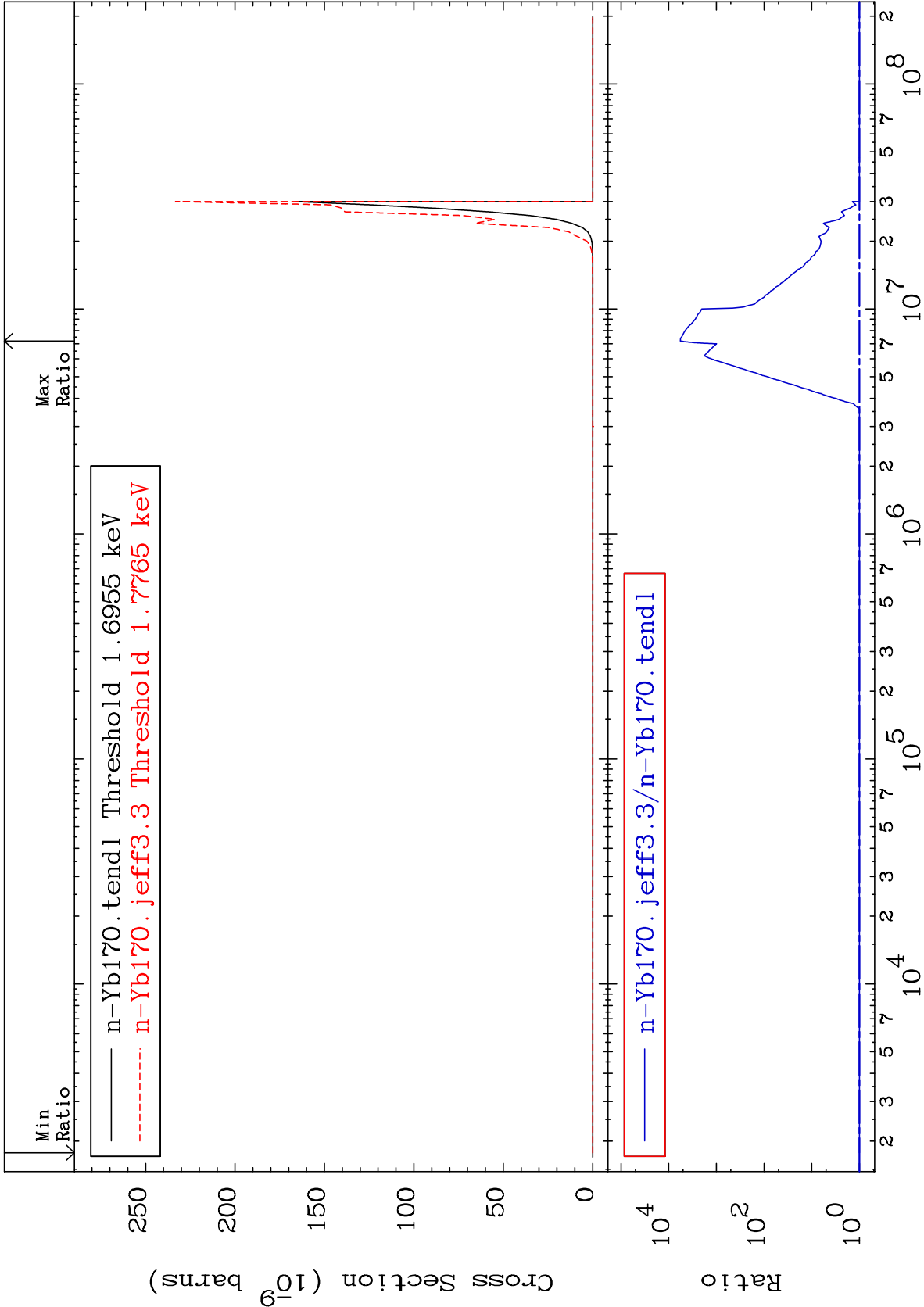
(n,2α)

⁷⁰Yb-¹⁷⁰

Cross Section

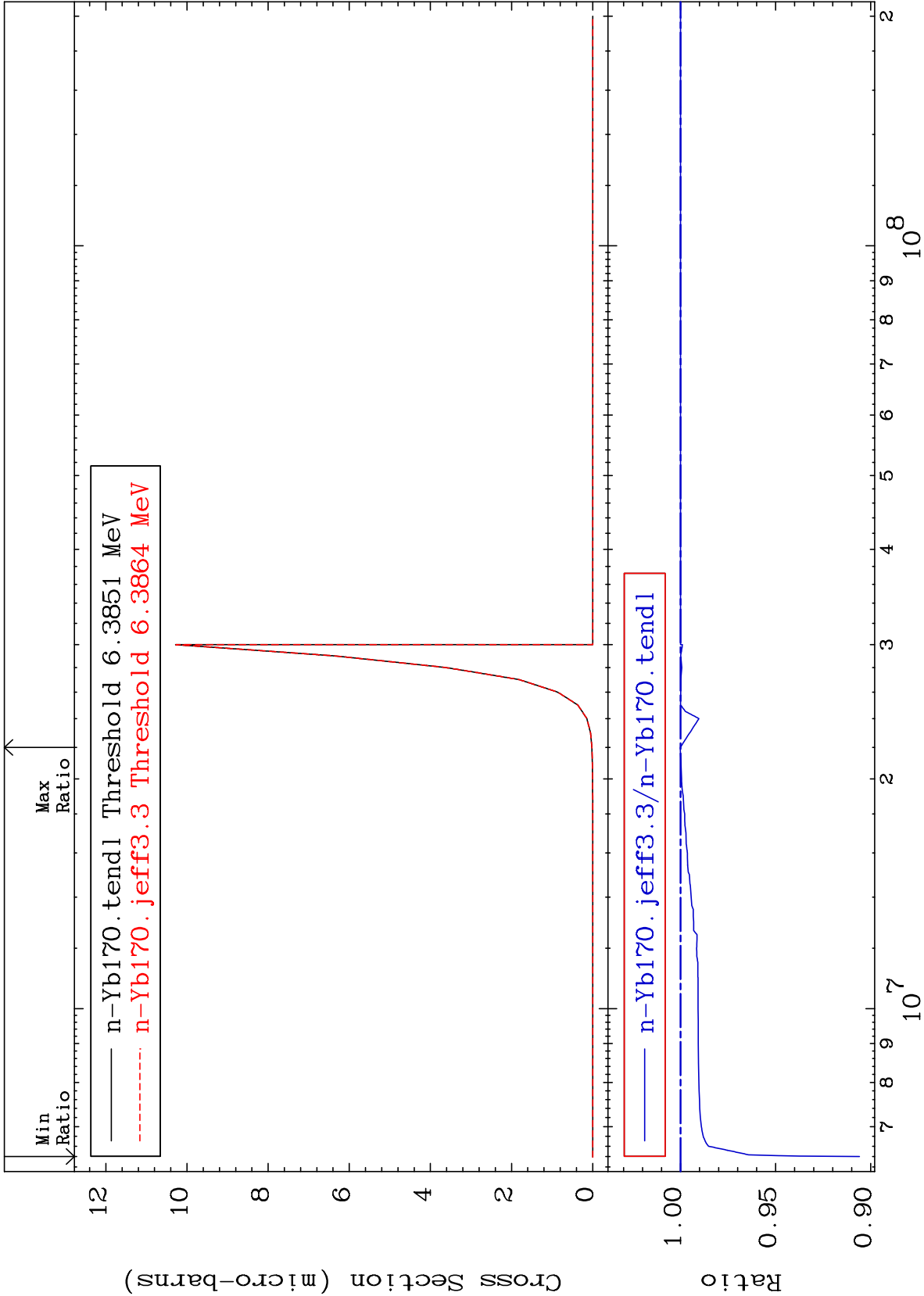
0.000

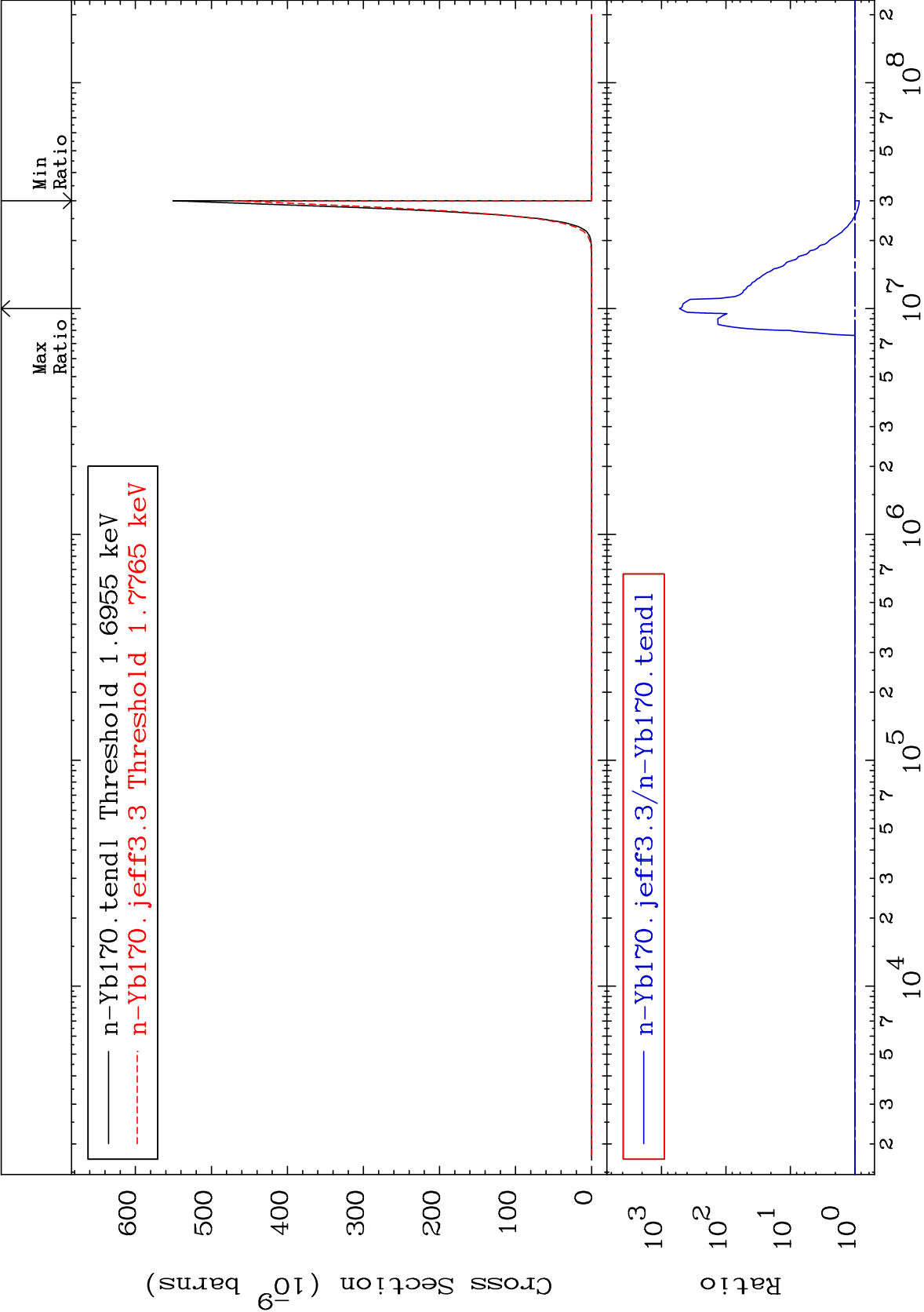
To 9999. %



Cross Section

-9.406 To 0.011 %





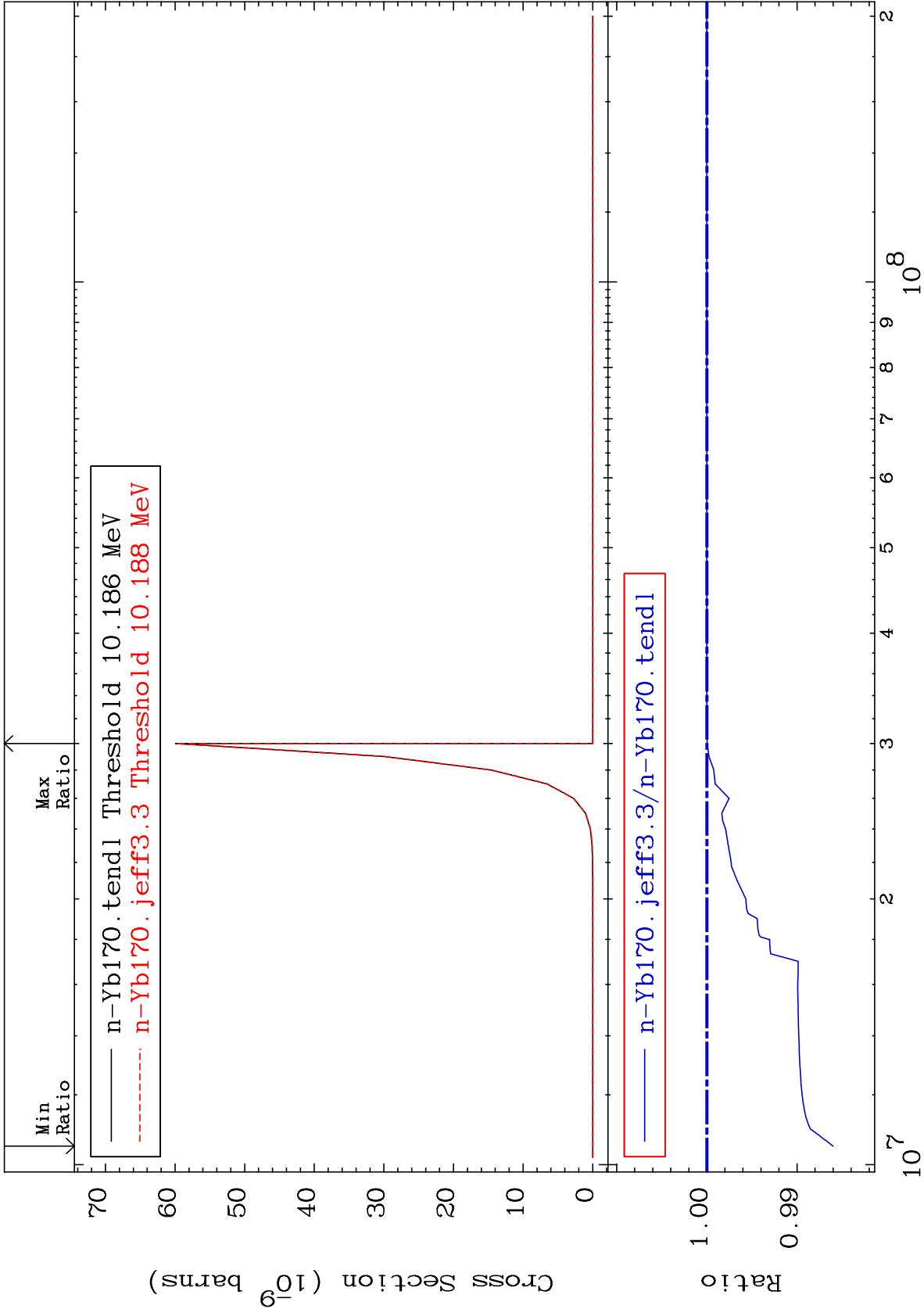
MAT 7031

(n,p) d

⁷⁰Yb-¹⁷⁰

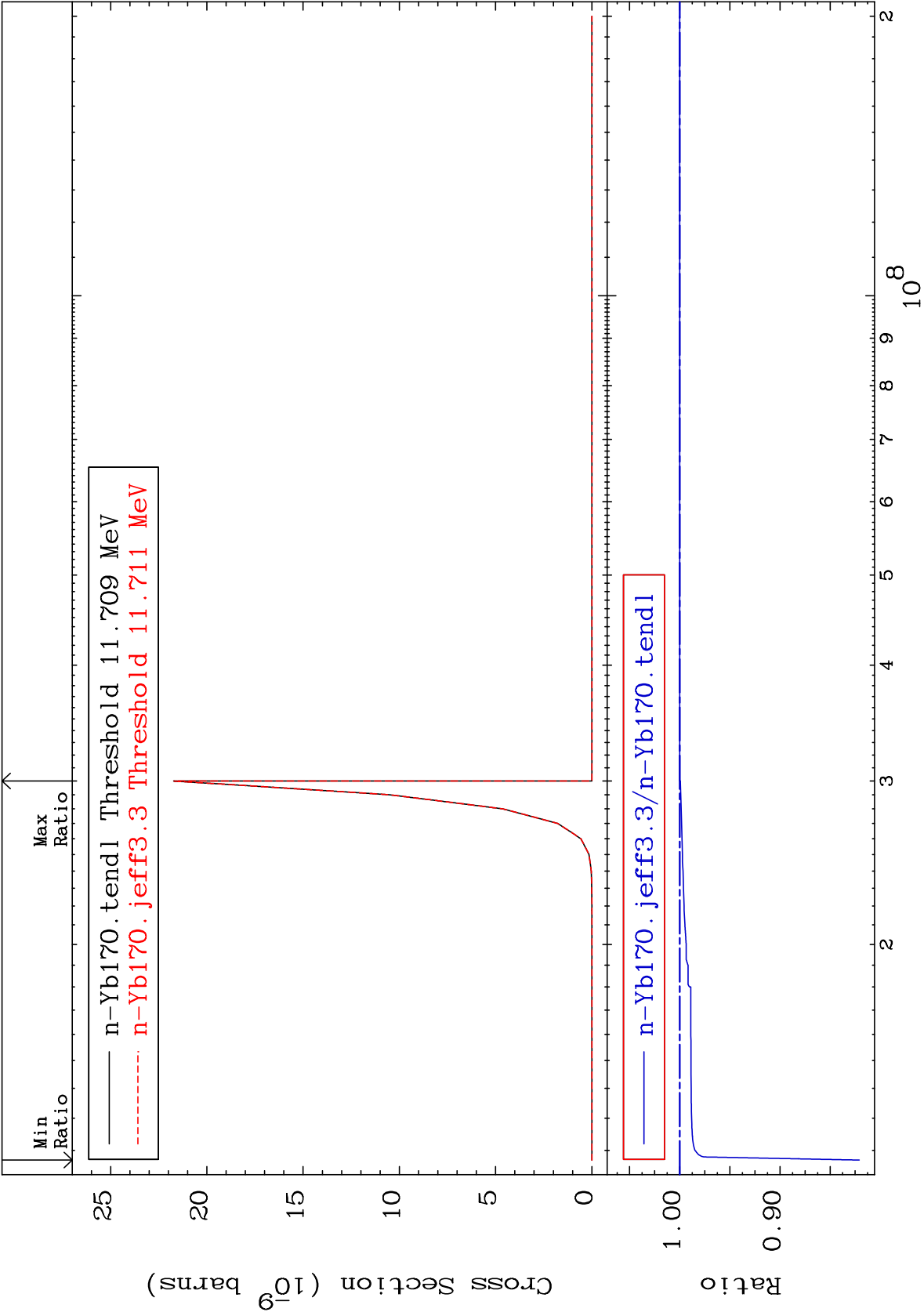
Cross Section

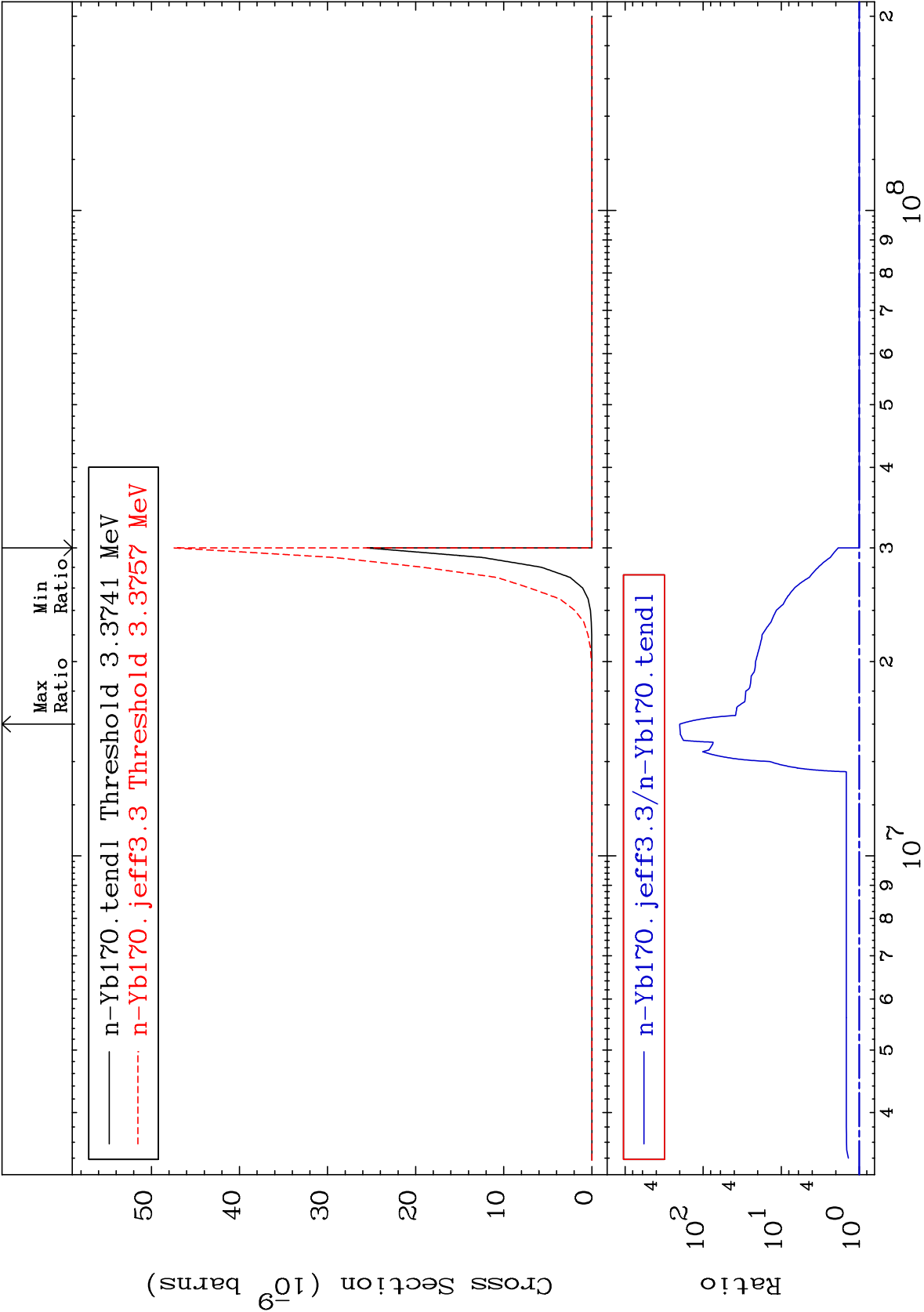
-1.398 To 0.000 %

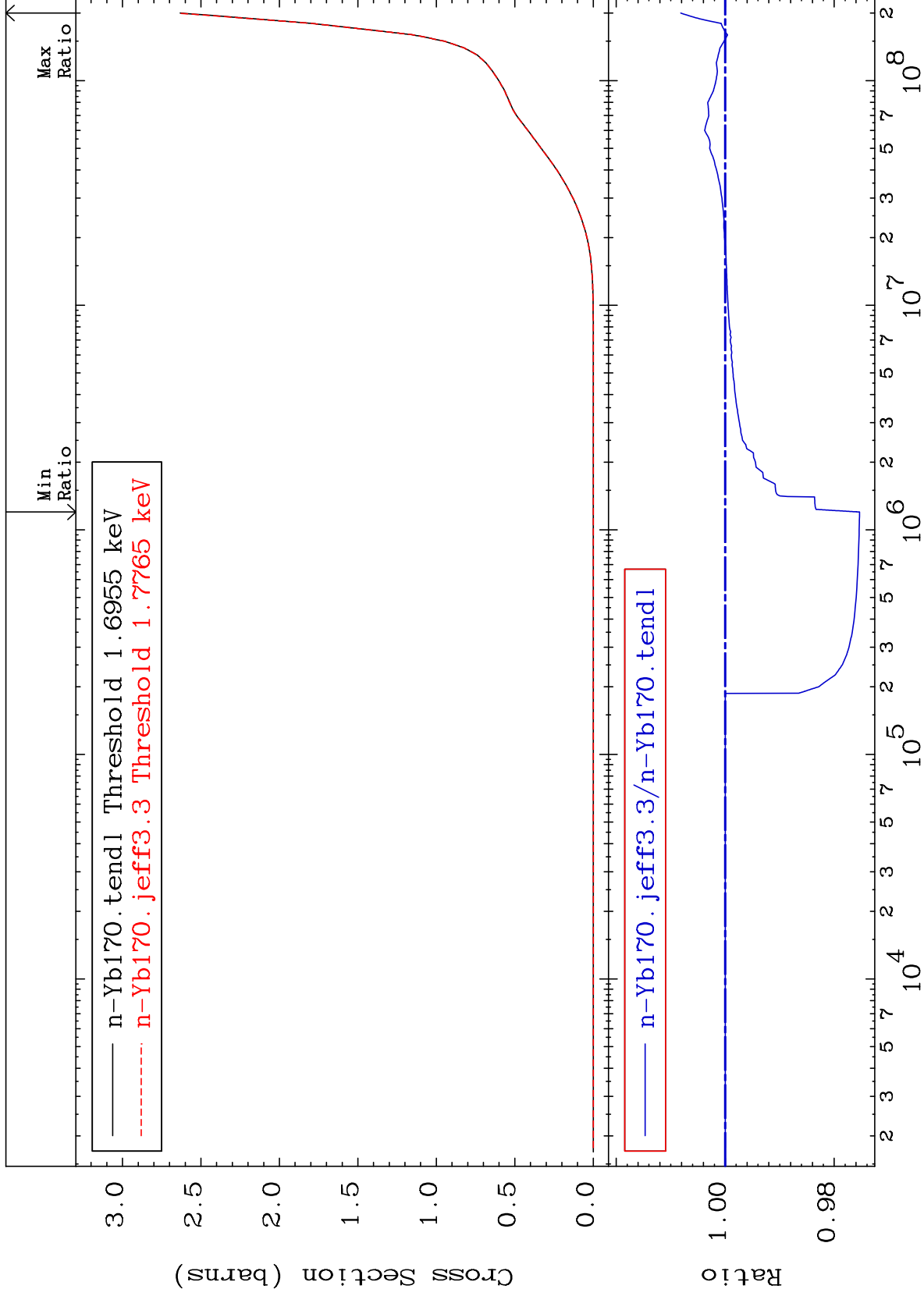


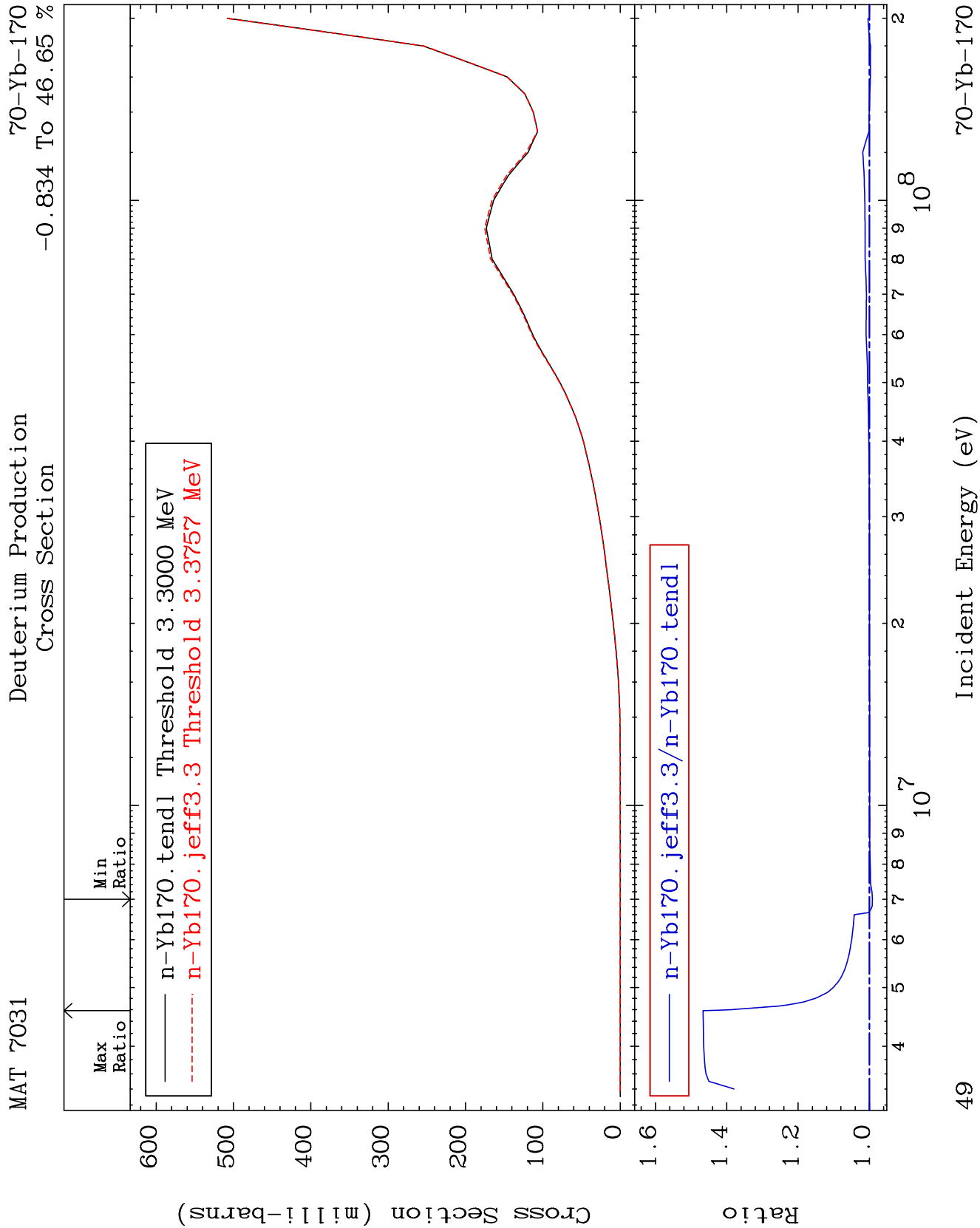
Incident Energy (eV)

⁷⁰Yb-¹⁷⁰





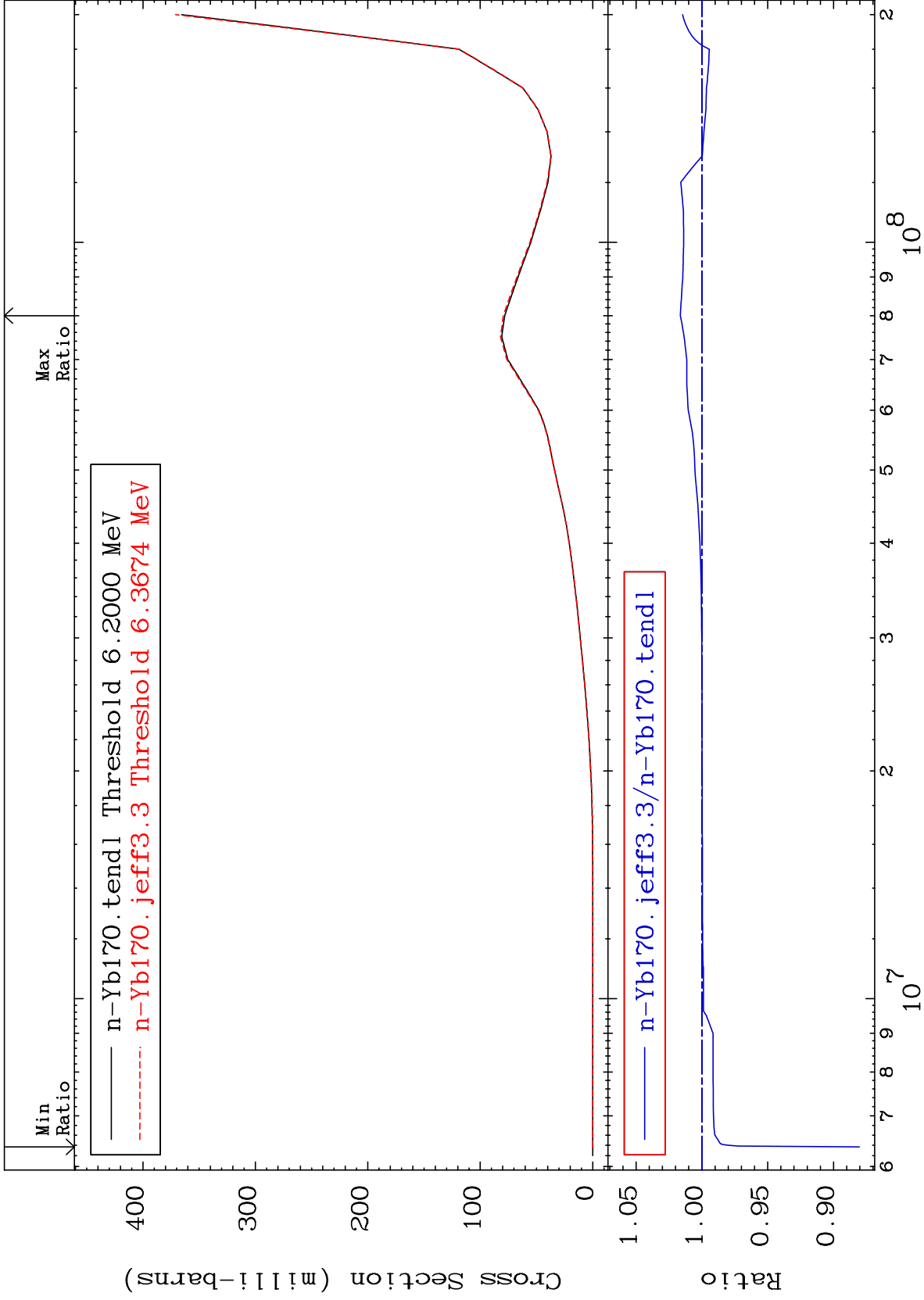




MAT 7031

Tritium Production
Cross Section

$^{70}\text{Yb}-^{170}$
-11.97 To 1.636 %



50

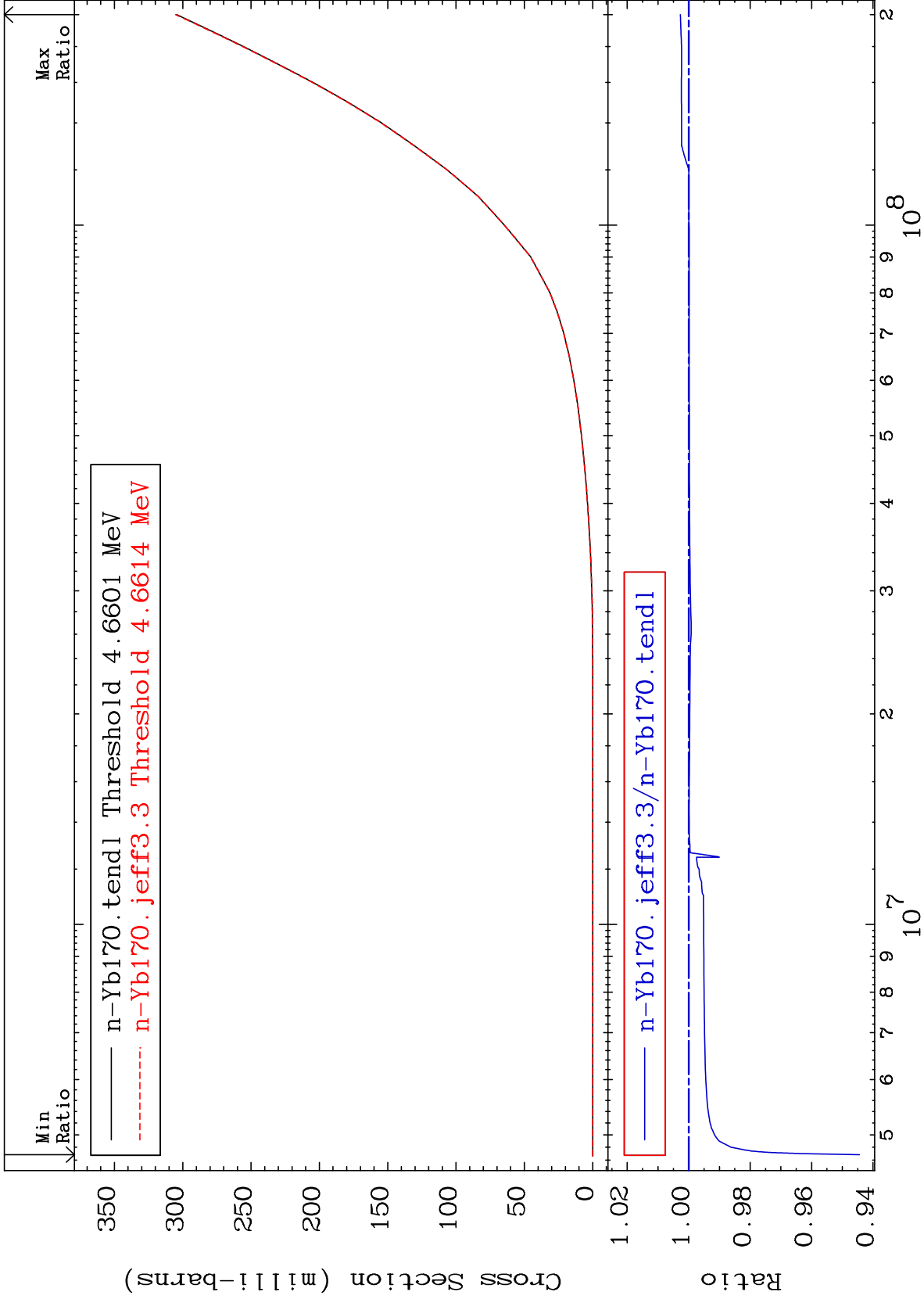
Incident Energy (eV)

$^{70}\text{Yb}-^{170}$

MAT 7031

He-3 Production
Cross Section

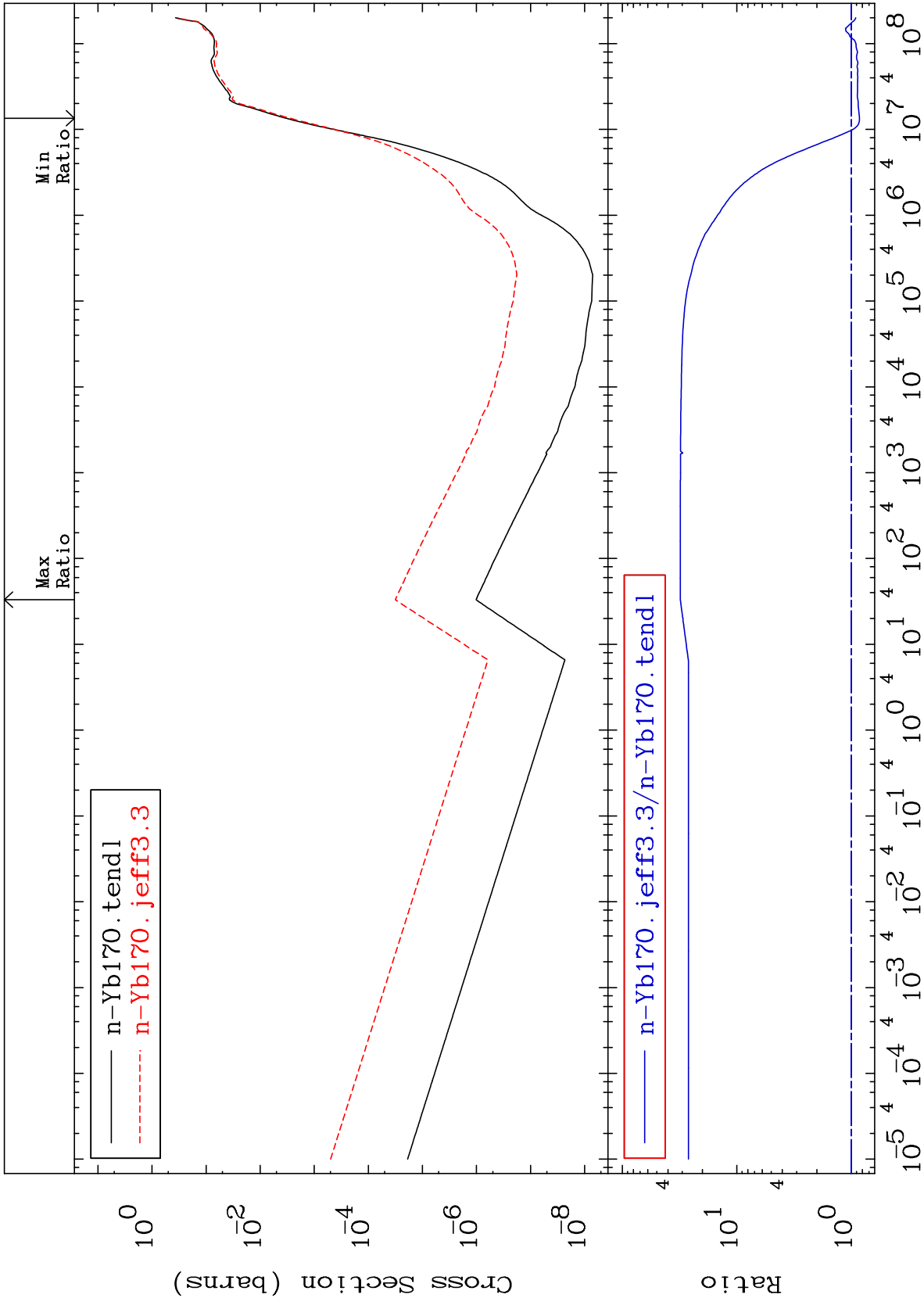
70-Yb-170
-5.556 To 0.271 %

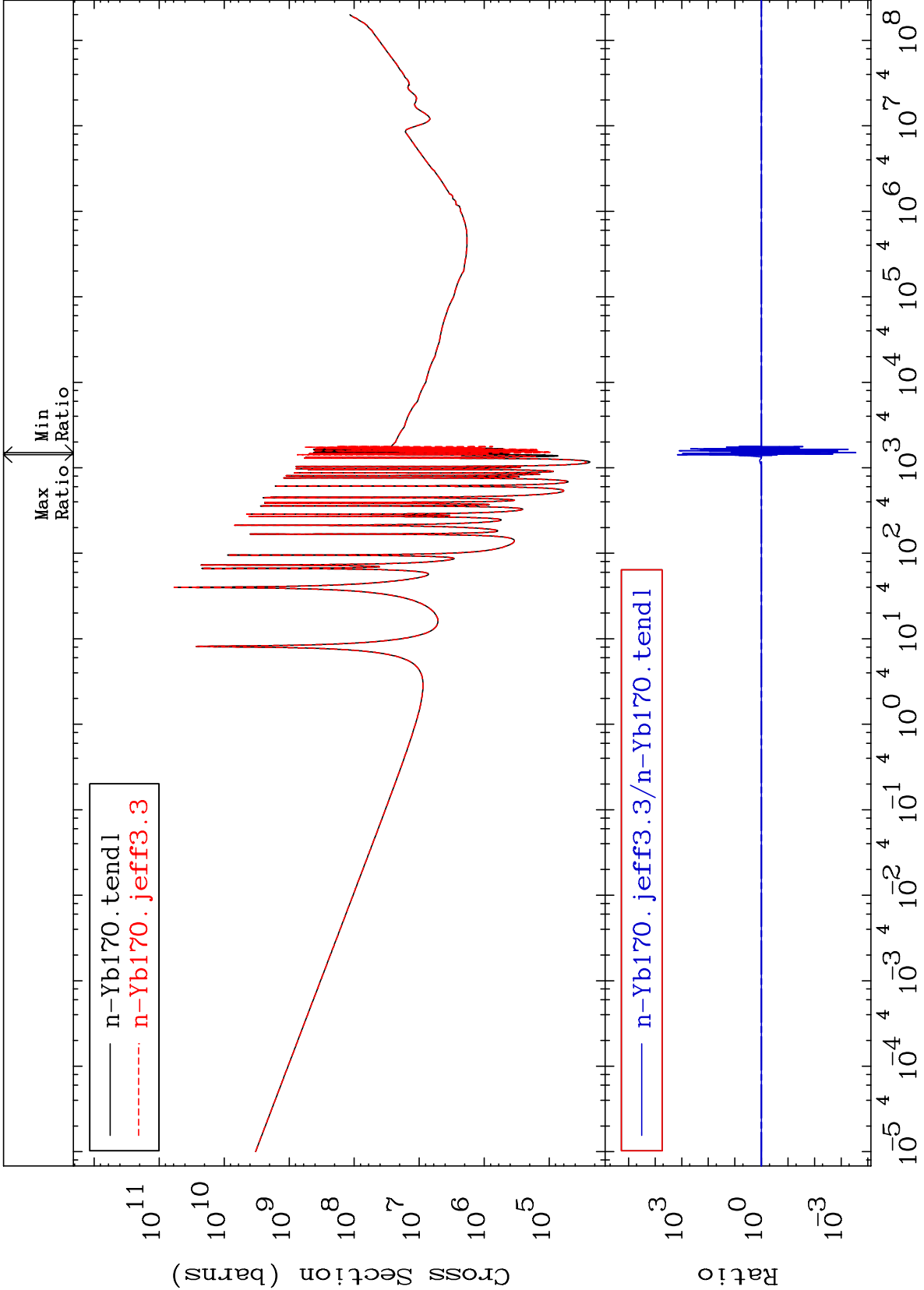


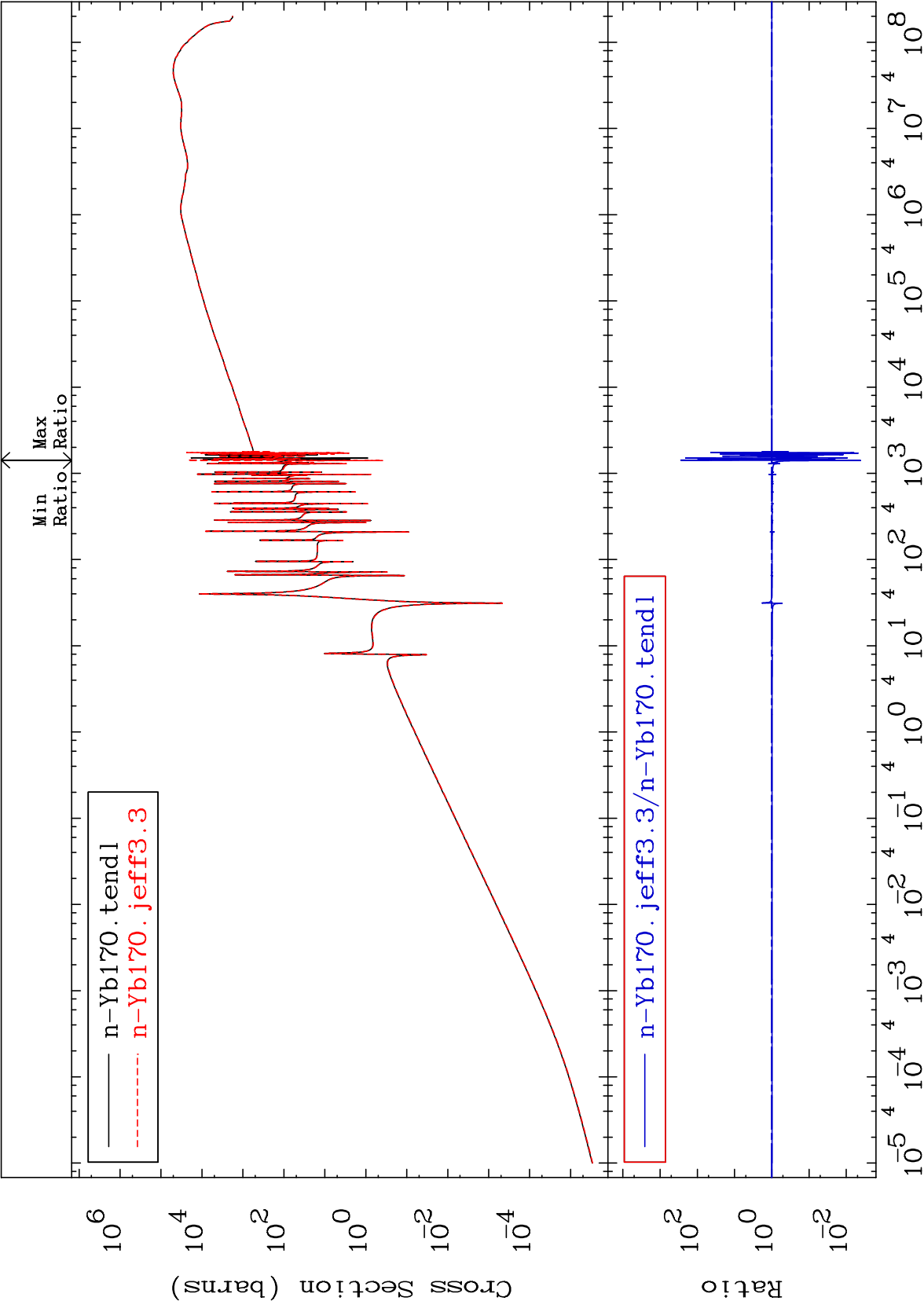
MAT 7031

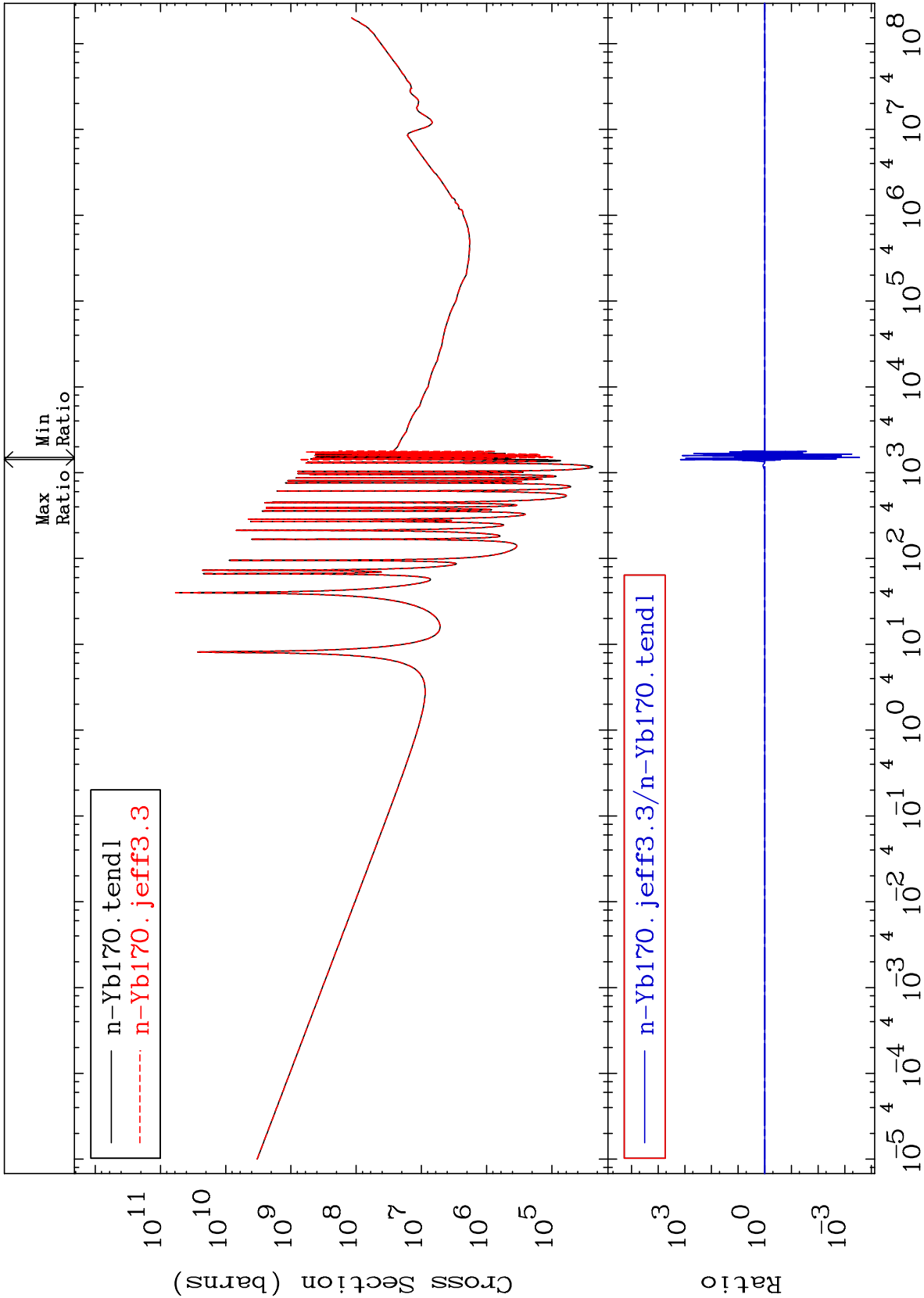
He-4 Production
Cross Section

70-Yb-170
-15.22 To 3015. %









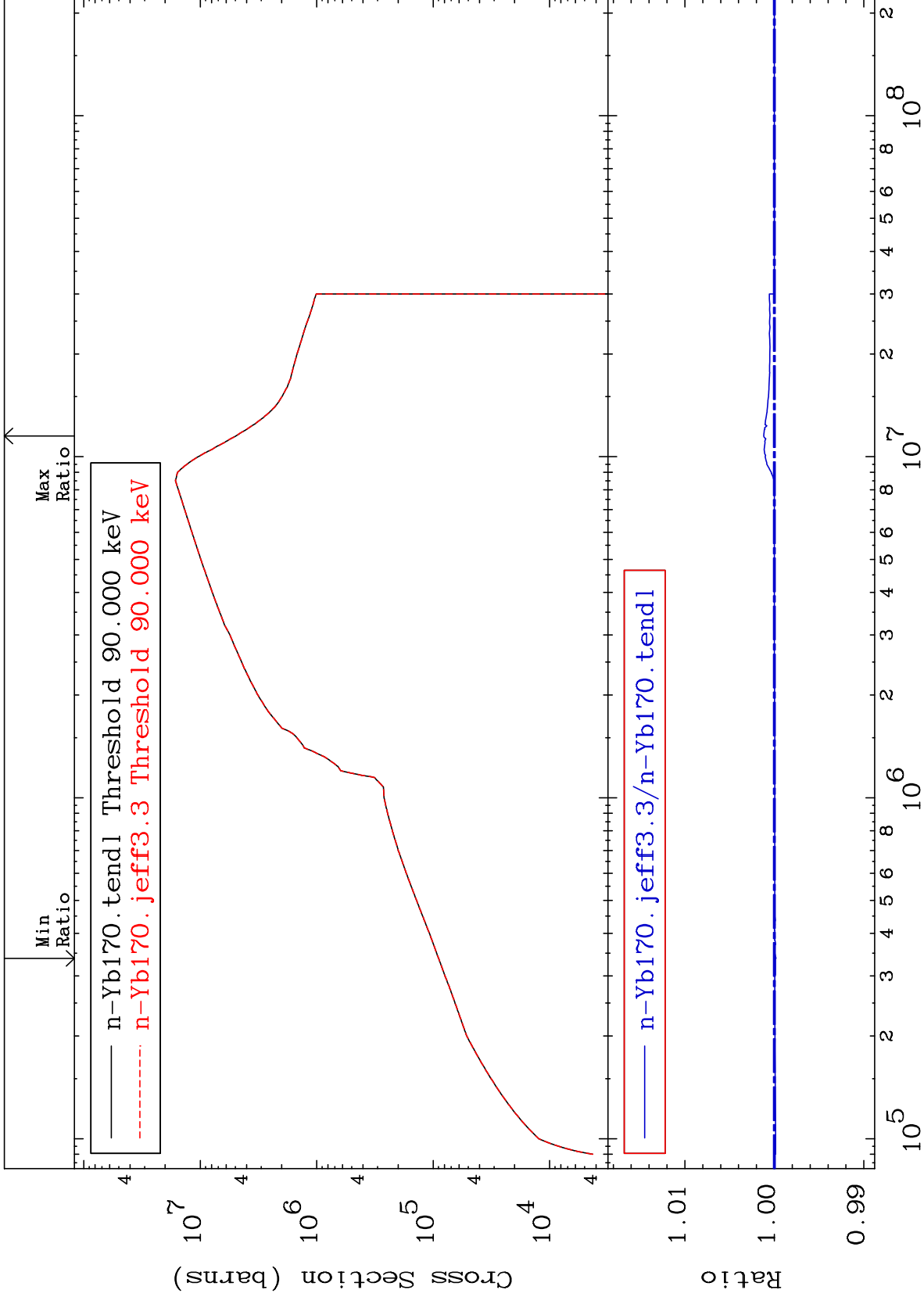
MAT 7031

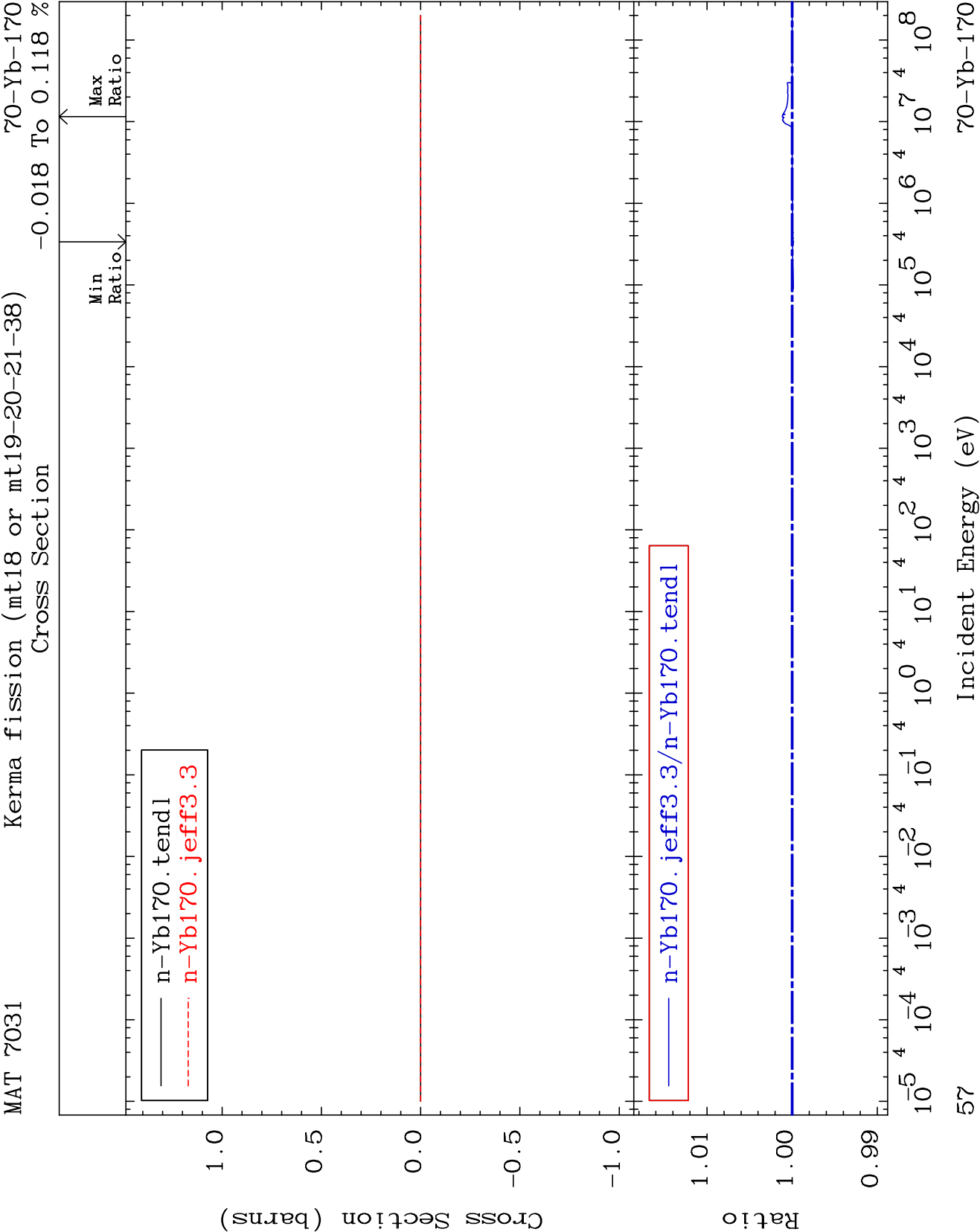
Kerma inelastic (mt51-91)

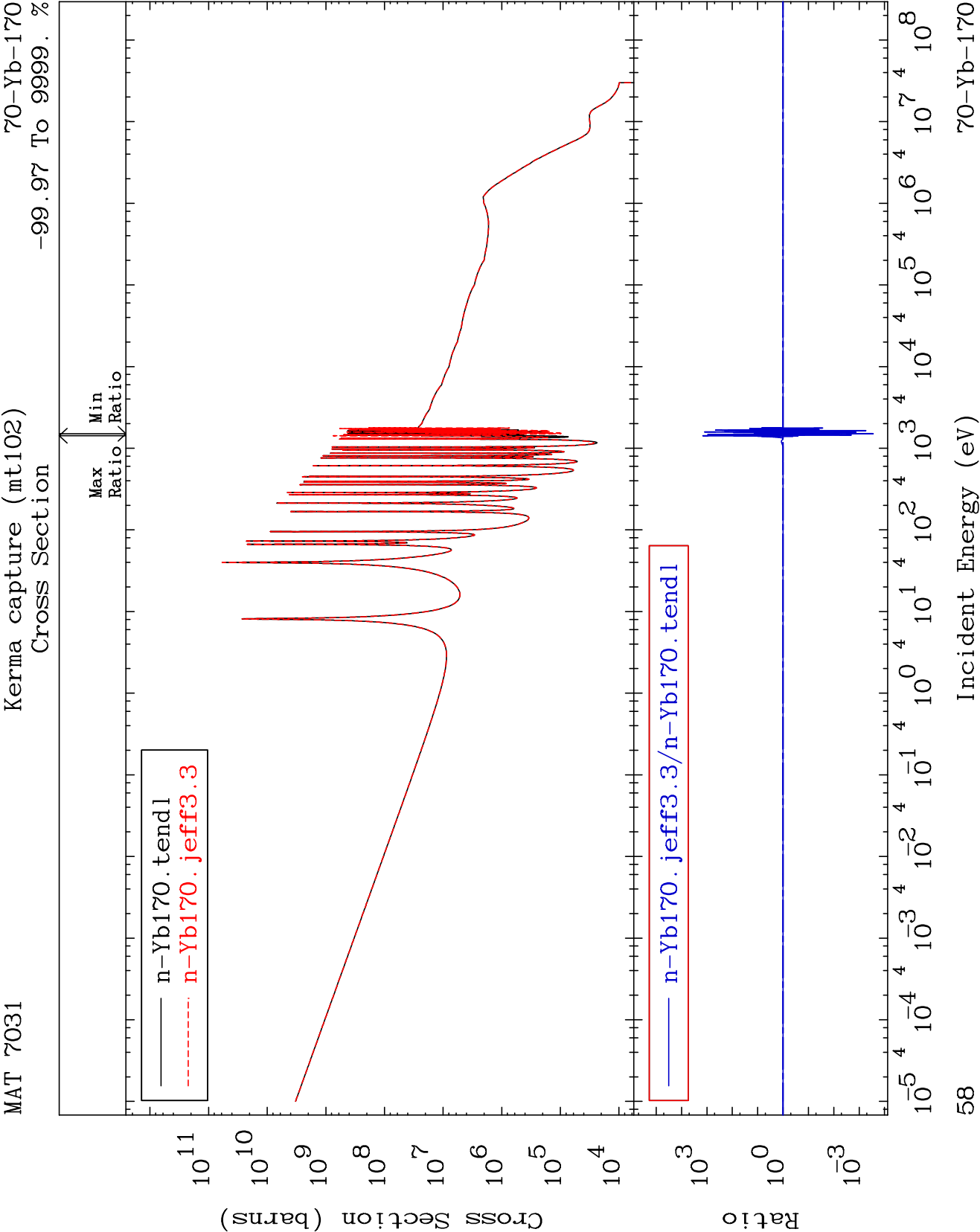
⁷⁰Yb-¹⁷⁰

Cross Section

-0.018 To 0.118 %







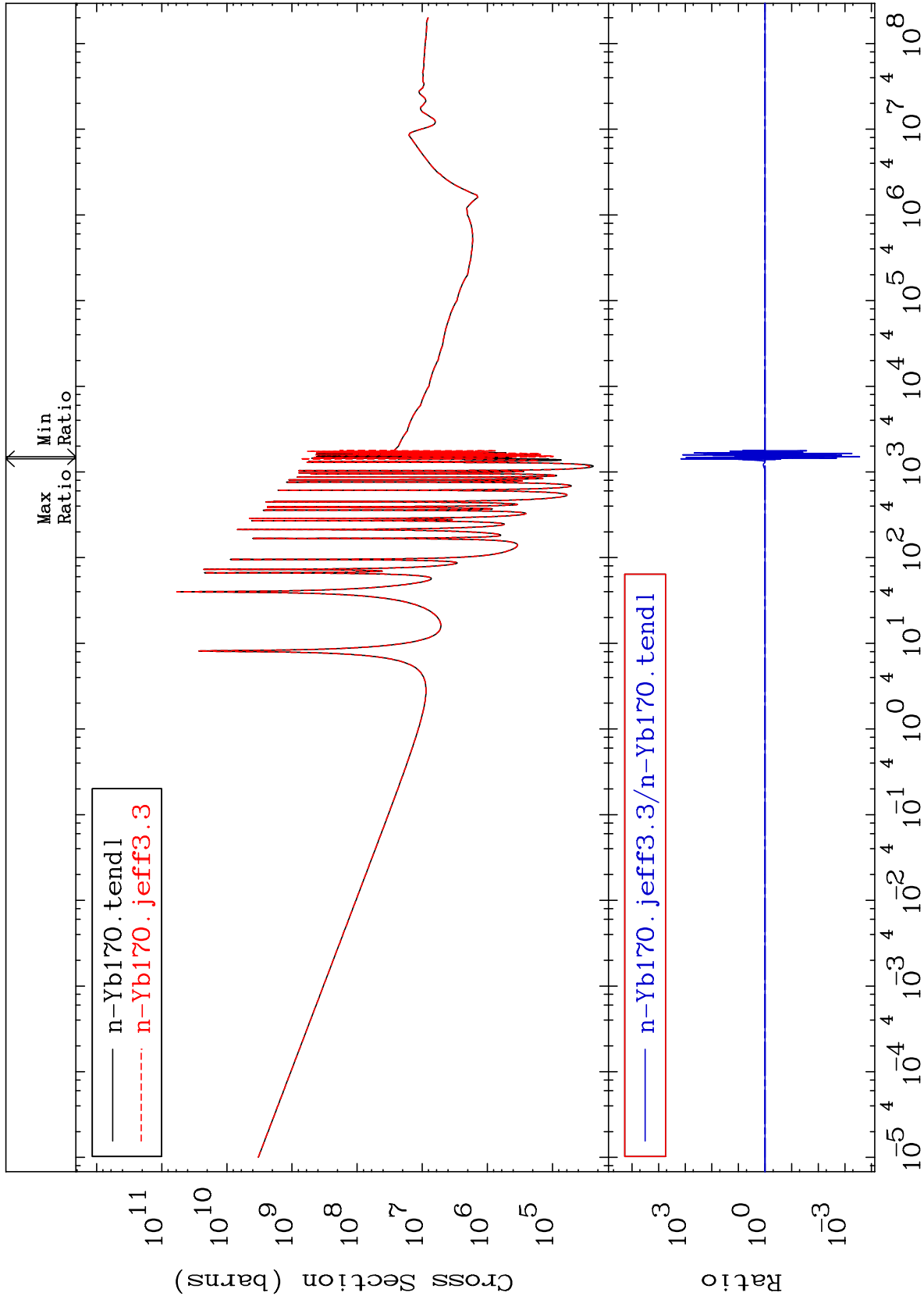
MAT 7031

Total photon (eV-barns)

70-Yb-170

Cross Section

-99.97 To 9999. %



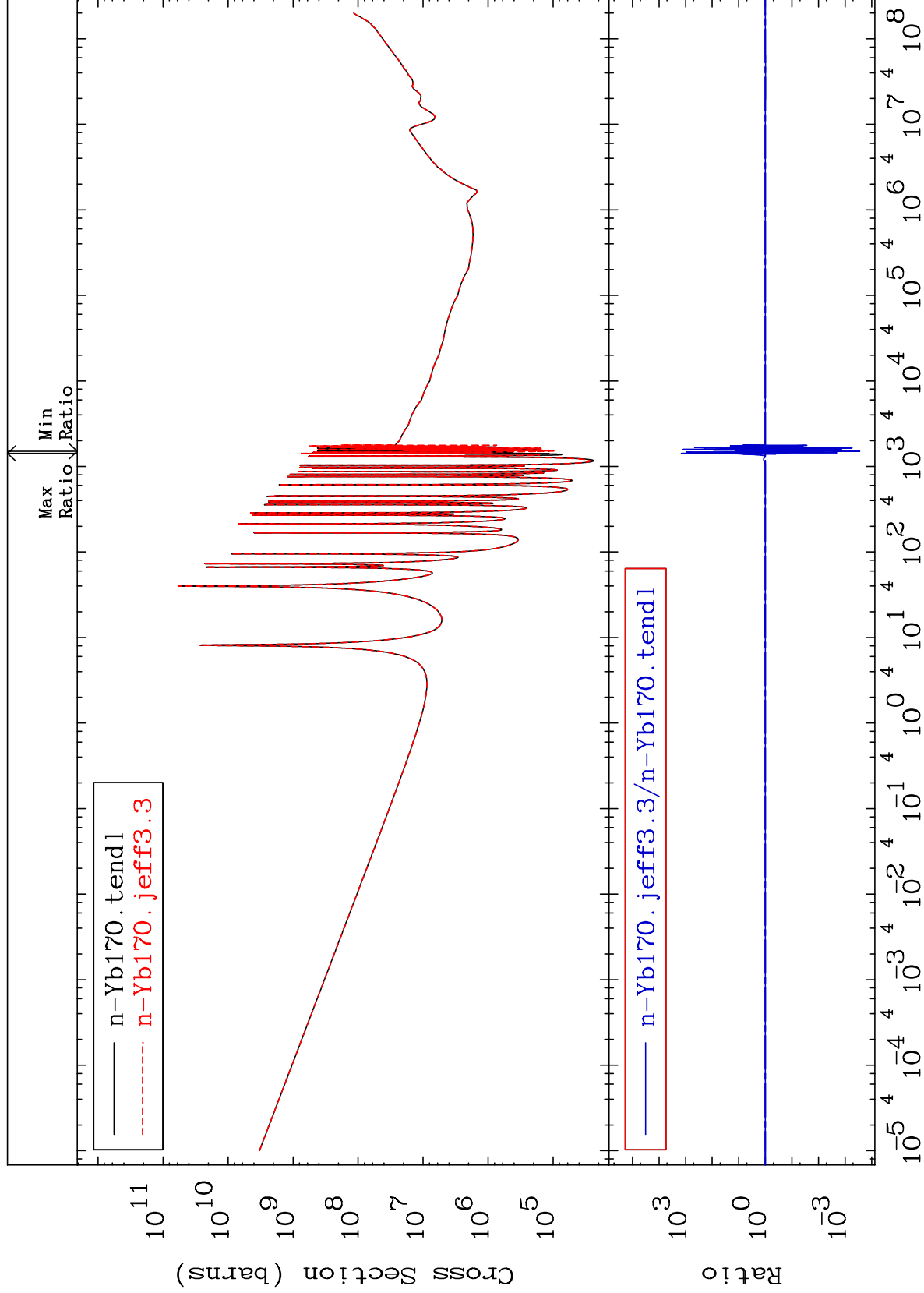
MAT 7031

Total kinematic kerma (high limit)

70-Yb-170

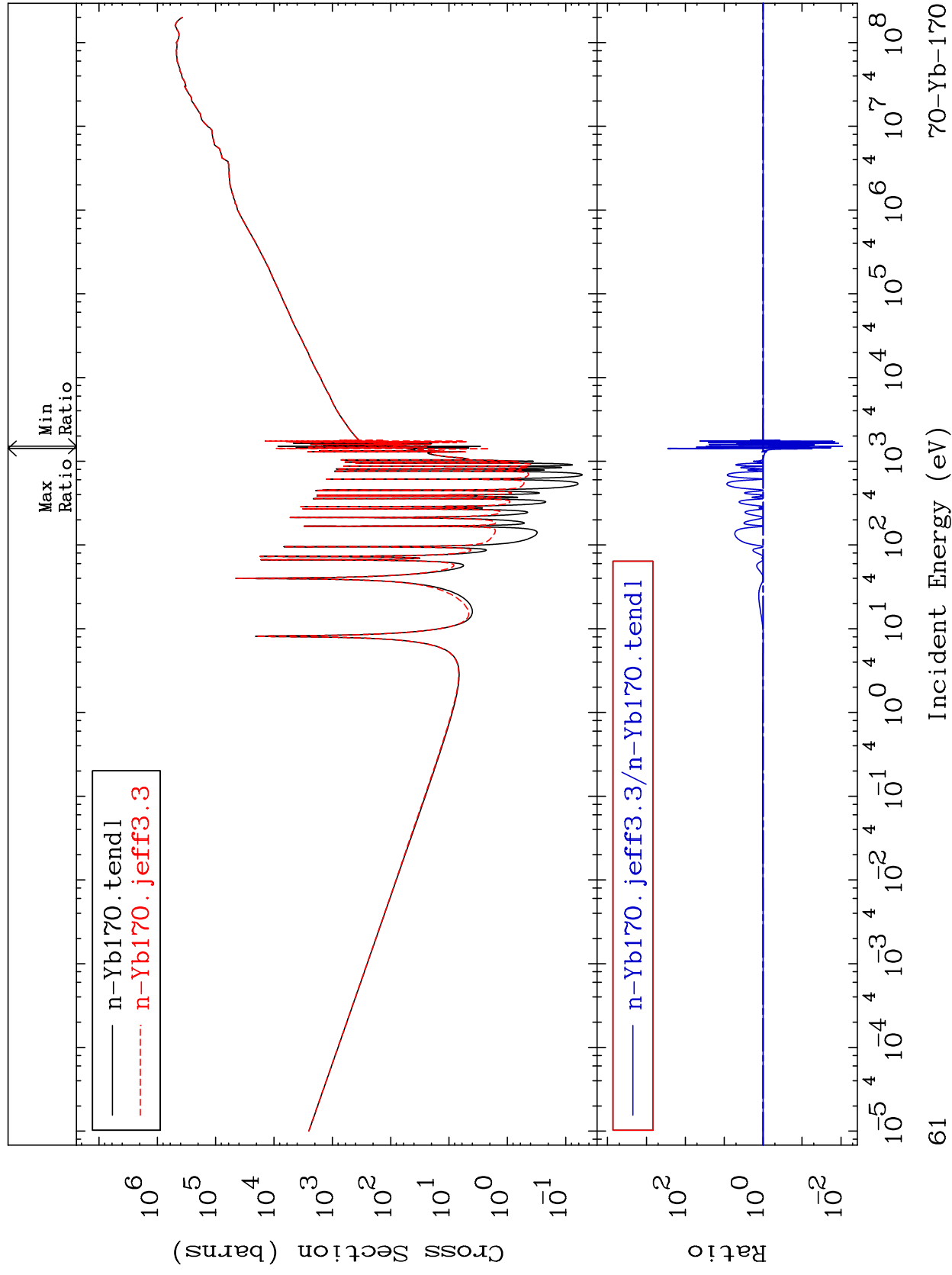
Cross Section

-99.97 To 9999. %



60

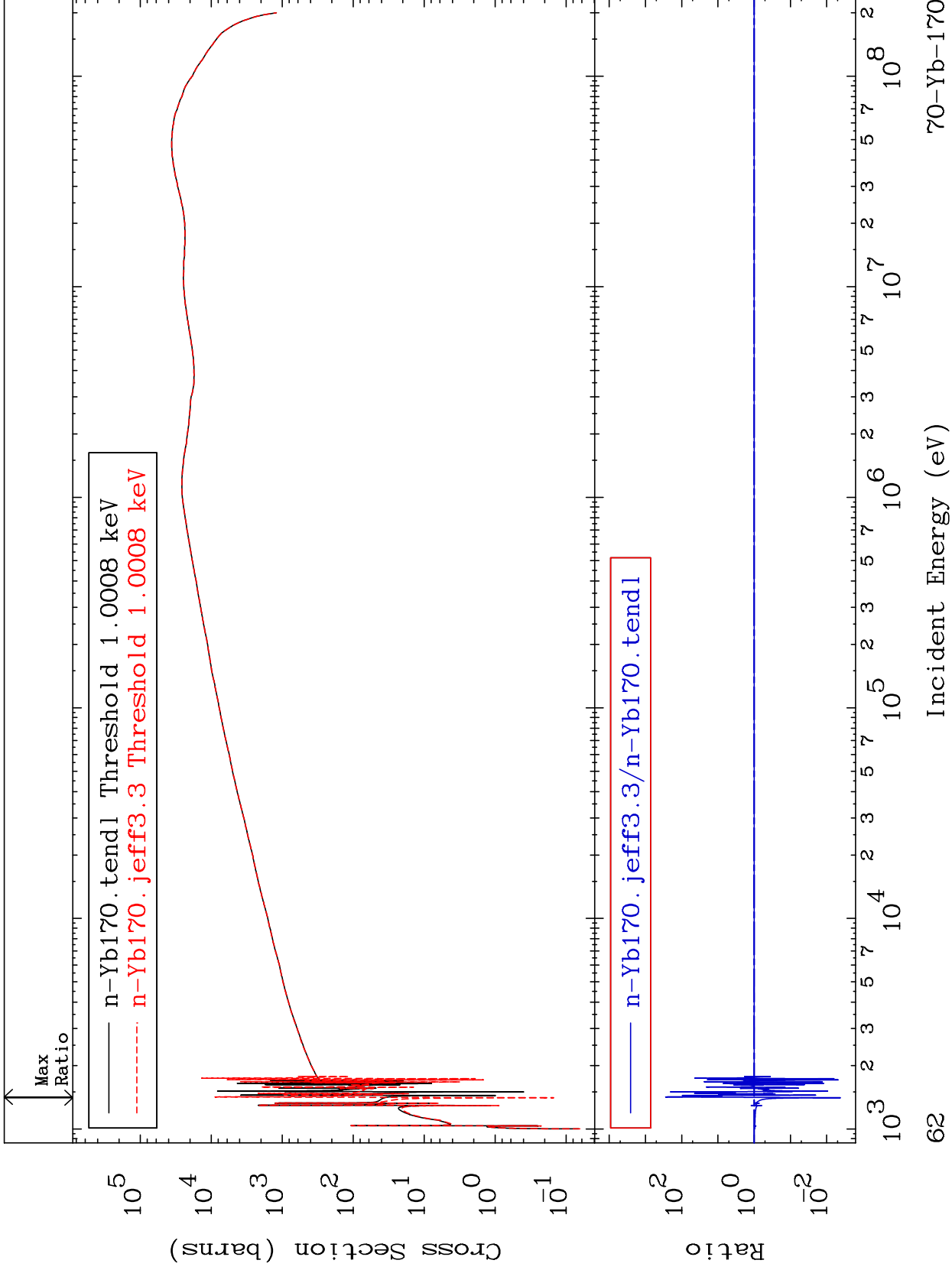
70-Yb-170
-99.08 To 9999. %

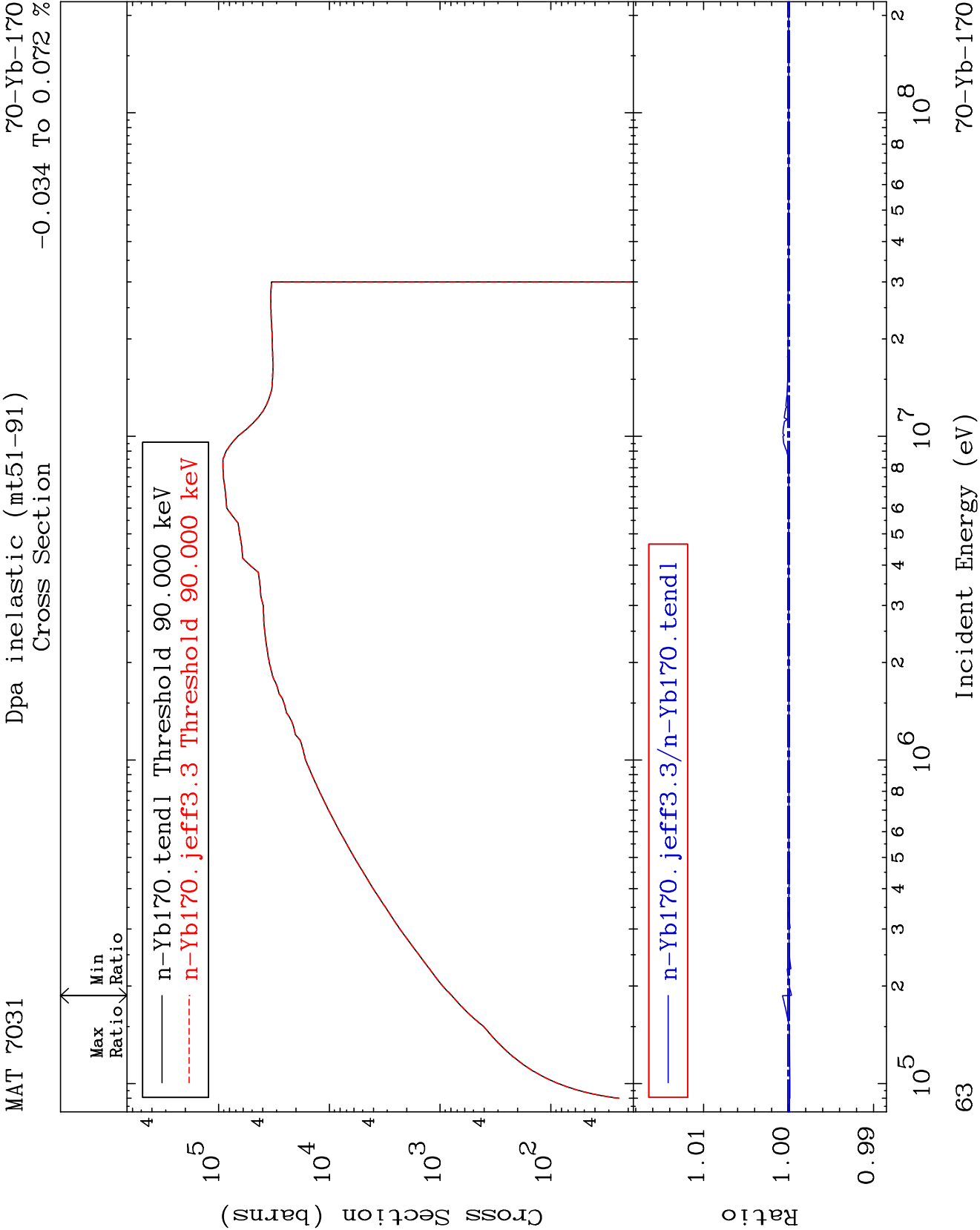


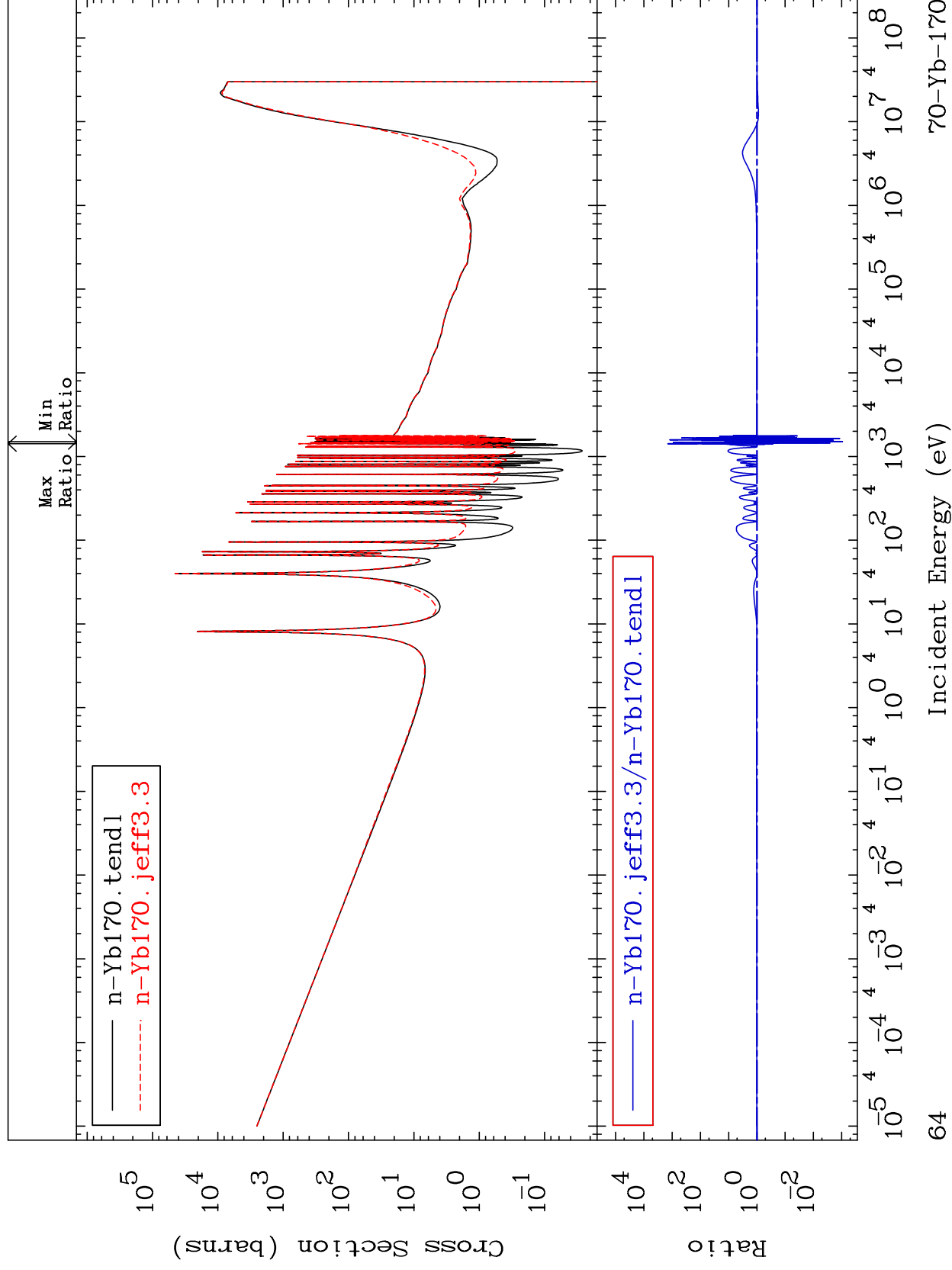
MAT 7031

Dpa elastic (mt2)
Cross Section

70-Yb-170
-99.59 To 9999. %







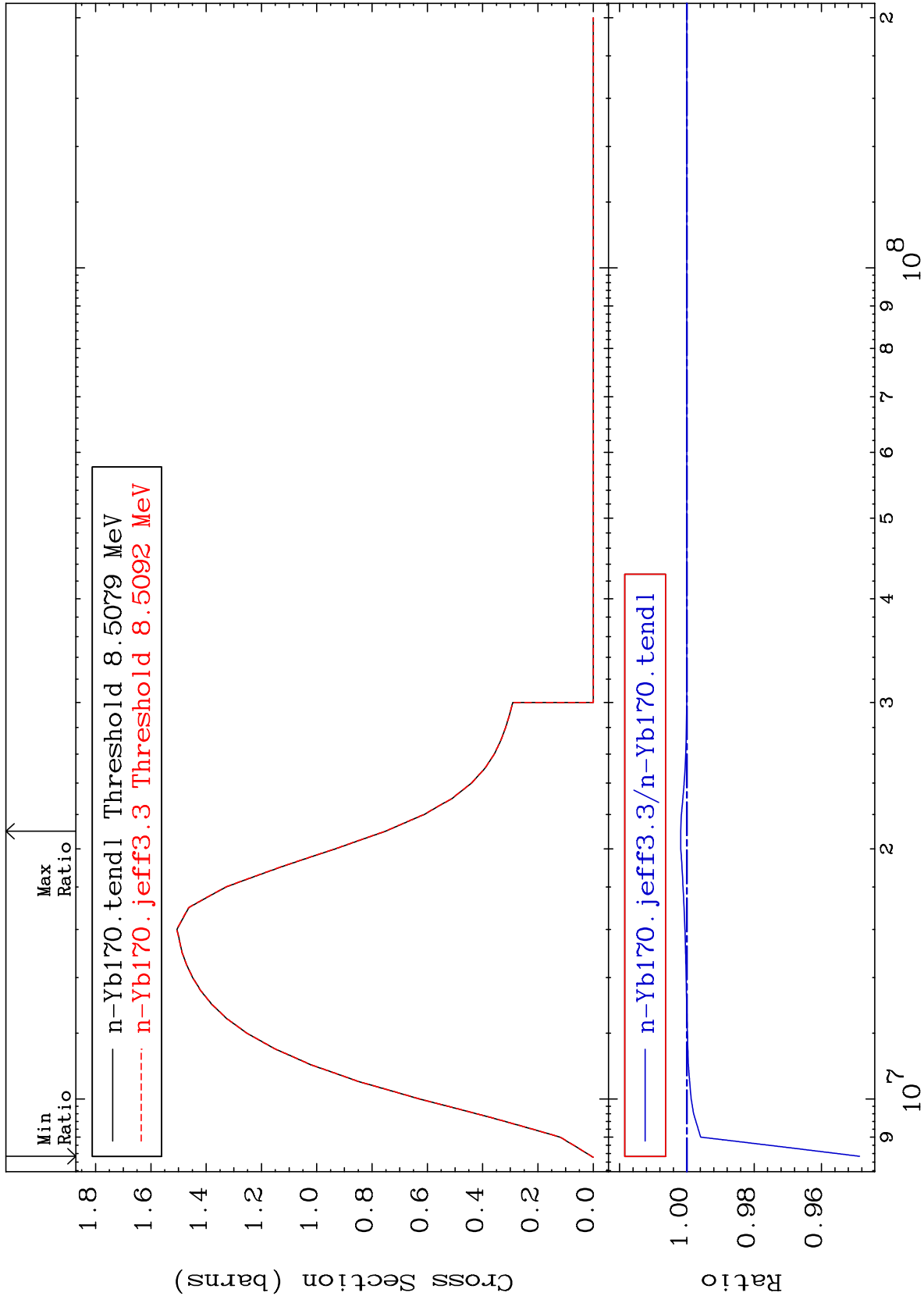
MAT 7031

(n,2n):70-Yb-169g

70-Yb-170

Radionuclide Production Cross Section

-5.132 To 0.180 %



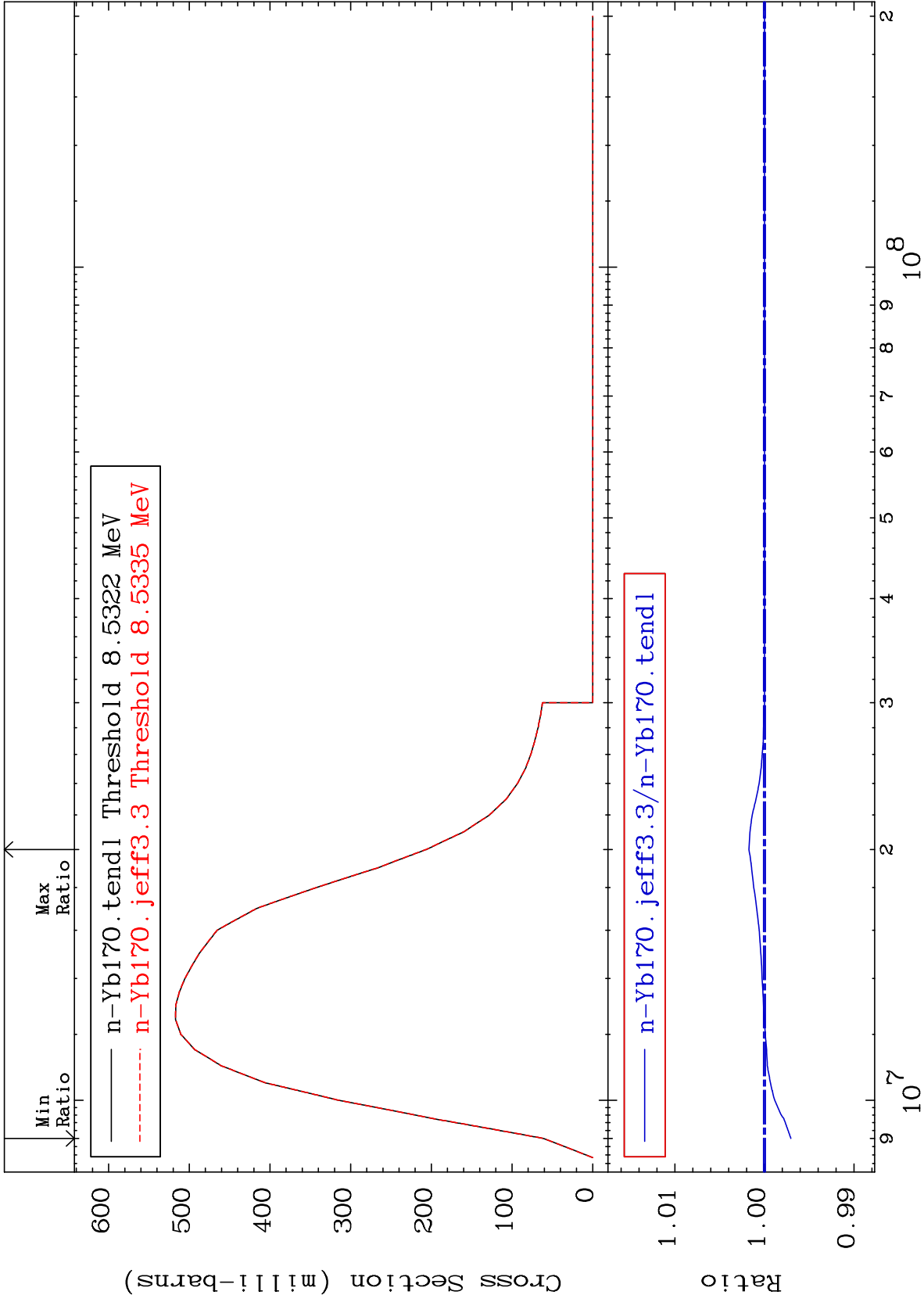
MAT 7031

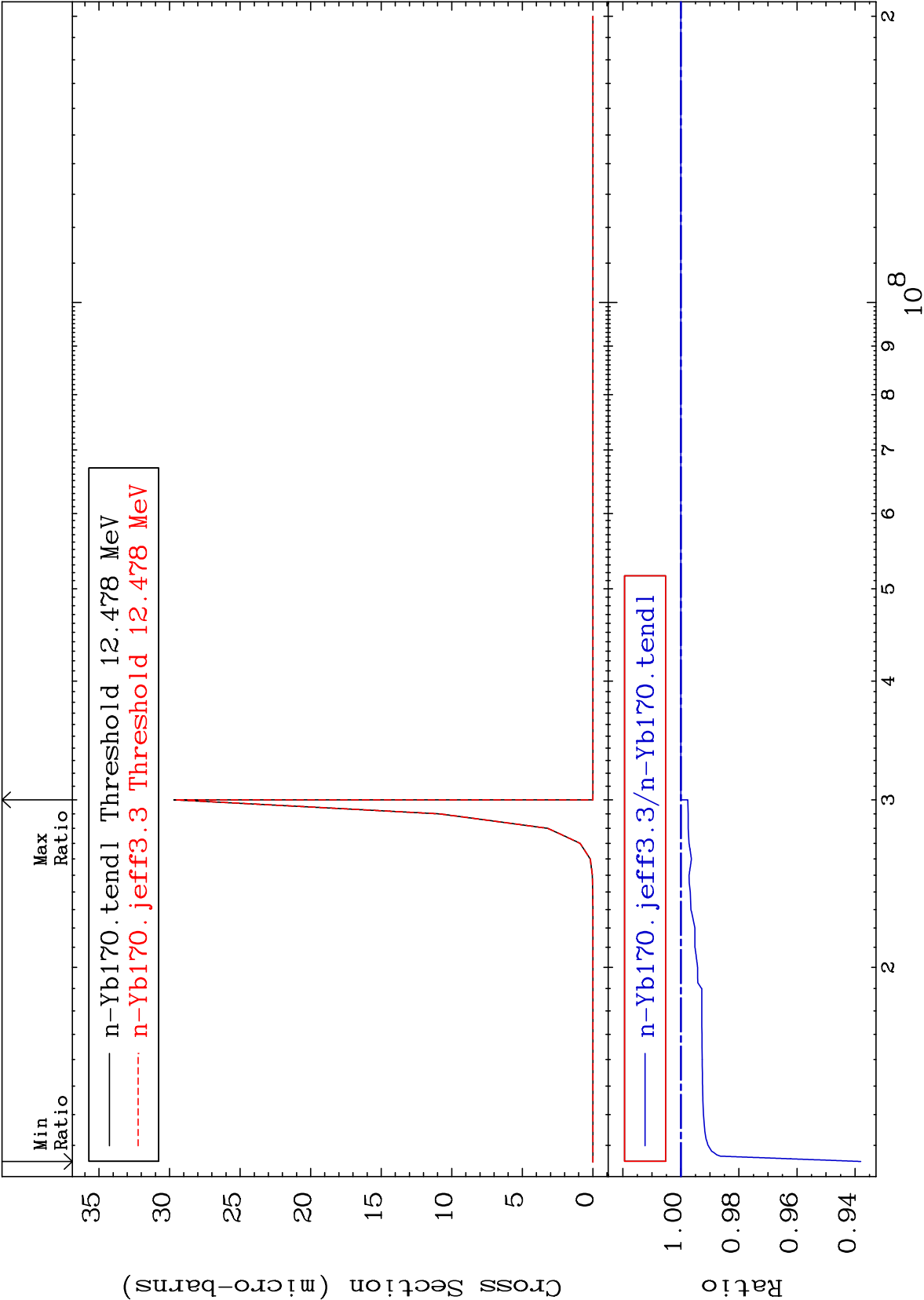
(n,2n):70-Yb-169m1

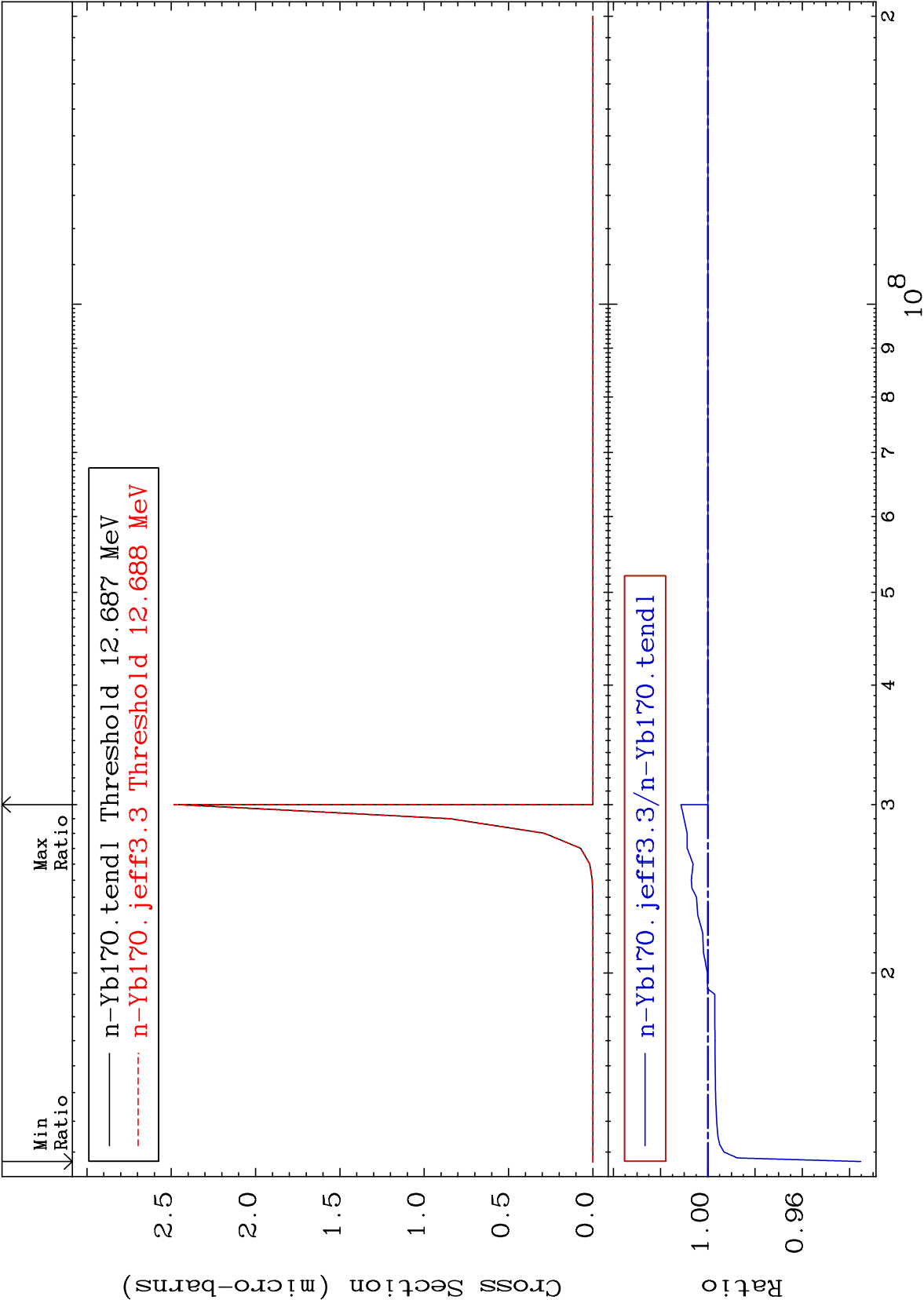
70-Yb-170

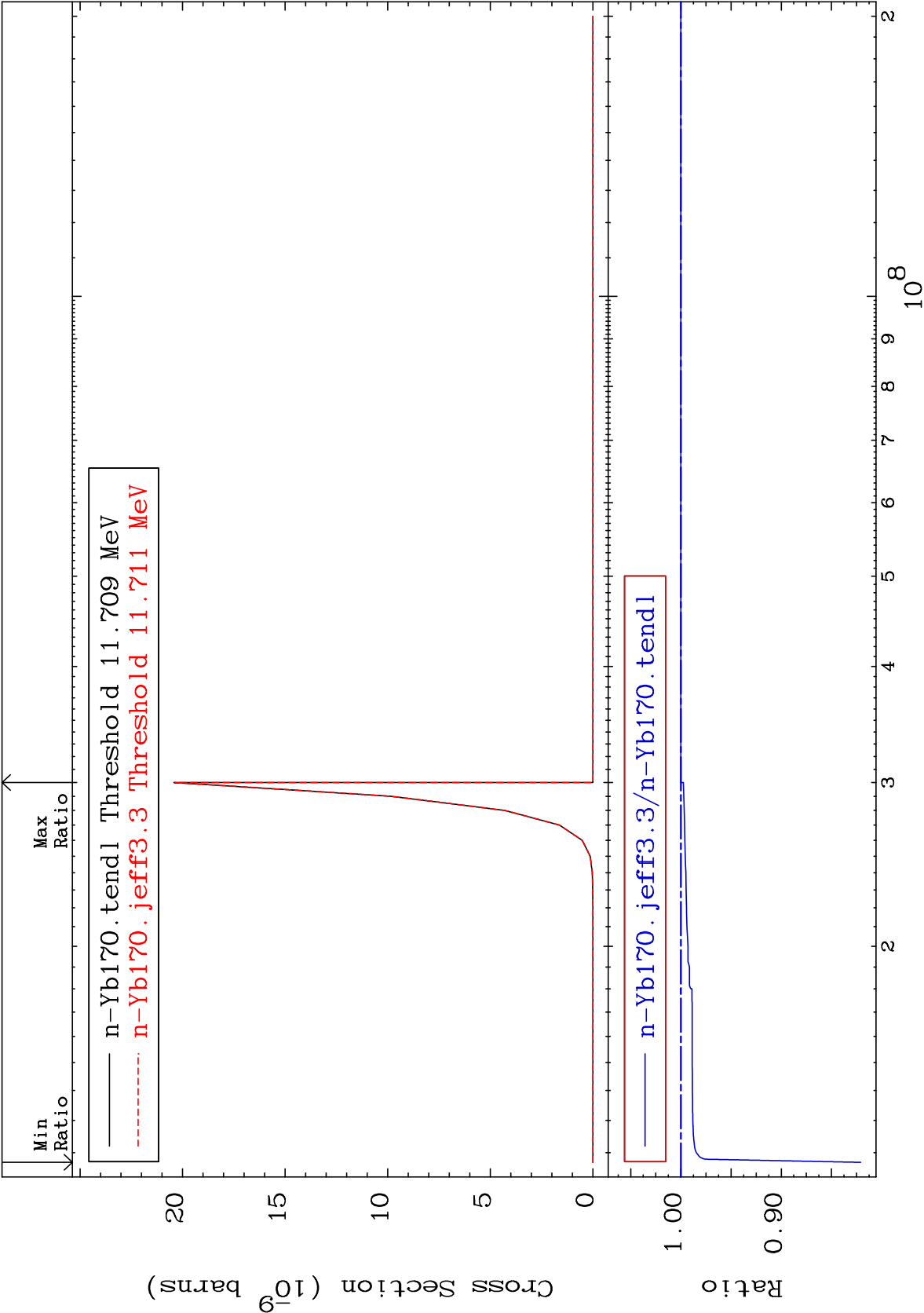
Radionuclide Production Cross Section

-0.295 To 0.173 %









MAT 7031

(n,p) t:68-Er-167m3

70-Yb-170

Radionuclide Production Cross Section

-0.430 To 2.828 %

