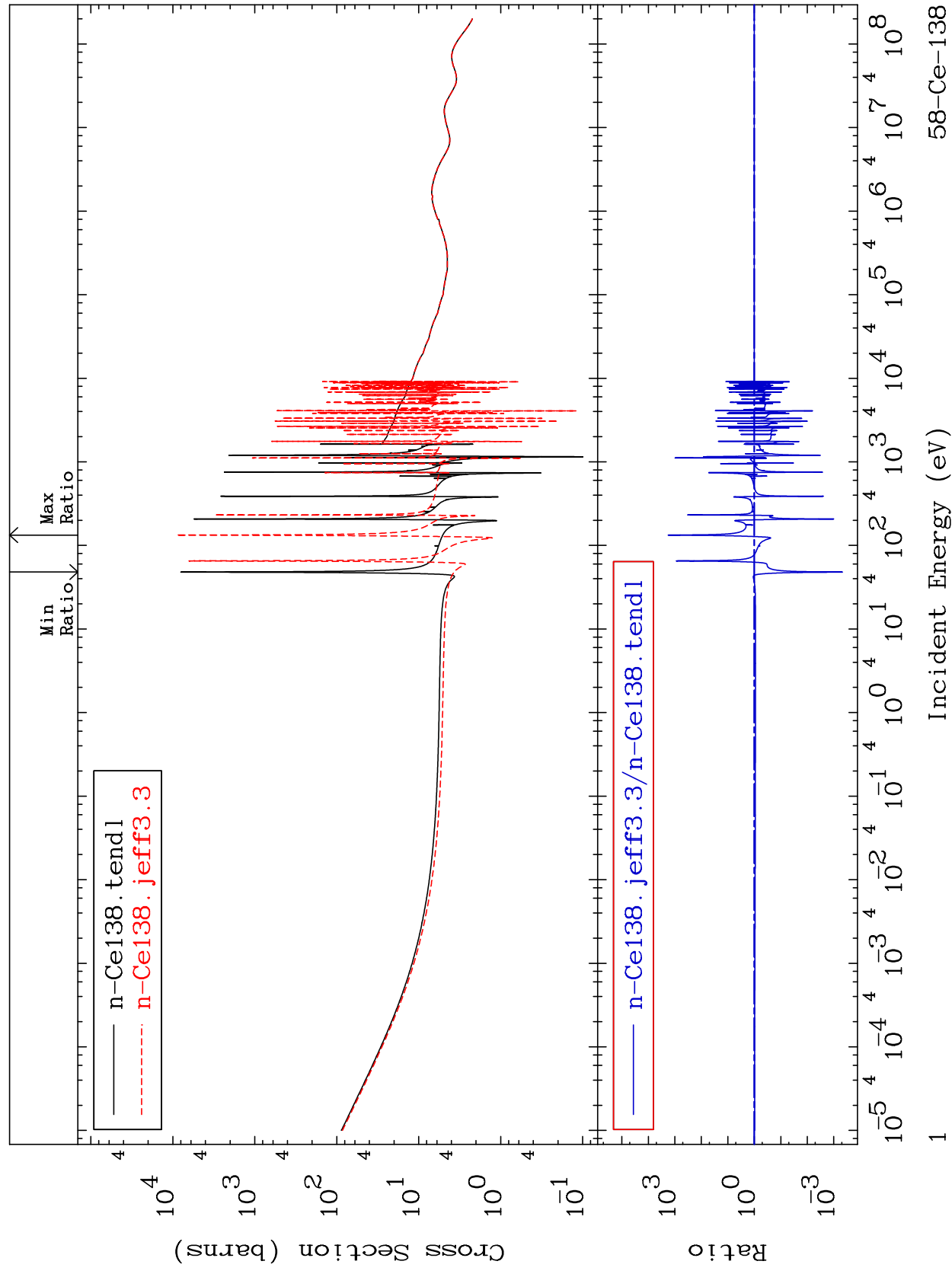
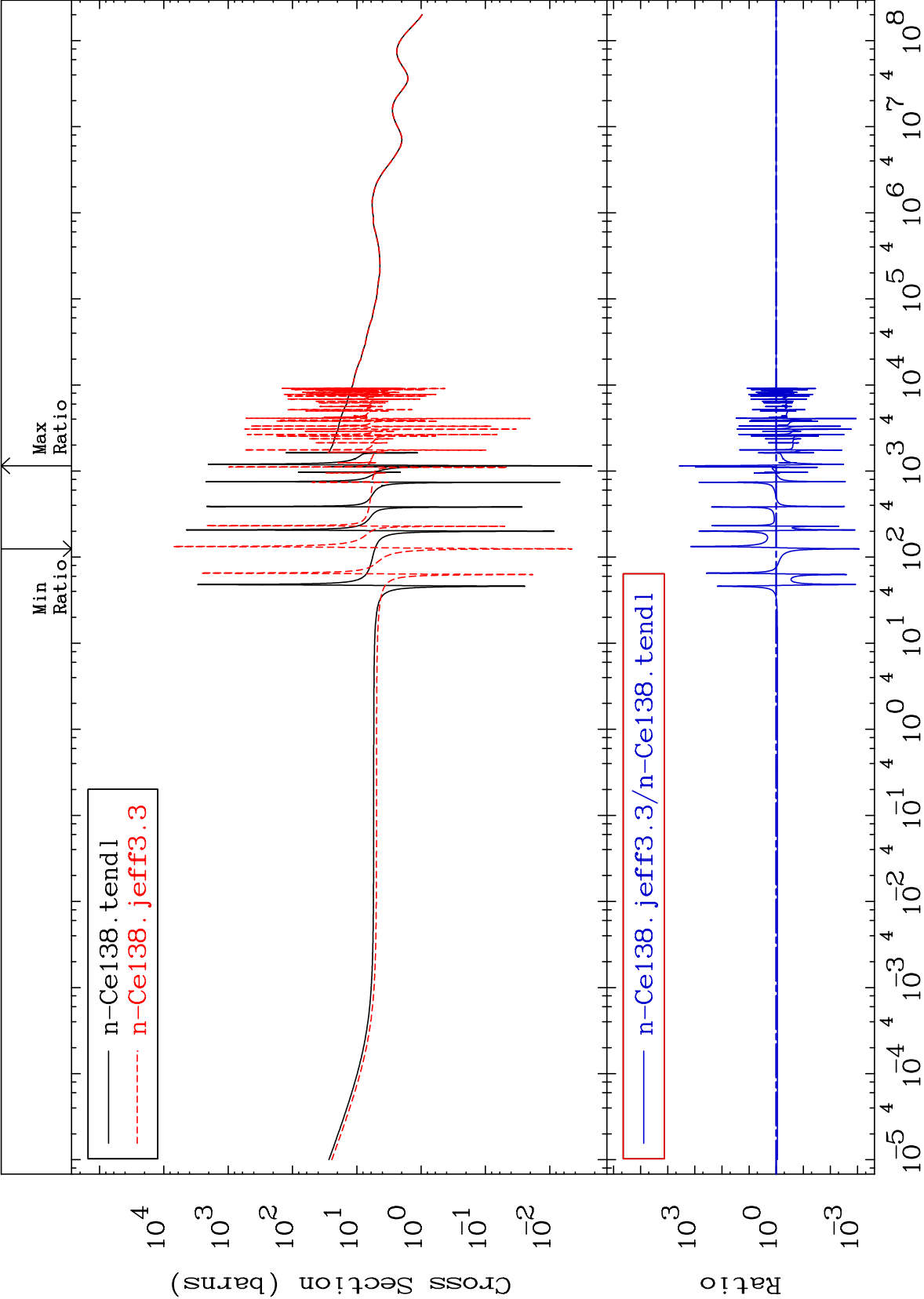


Total
Cross Section



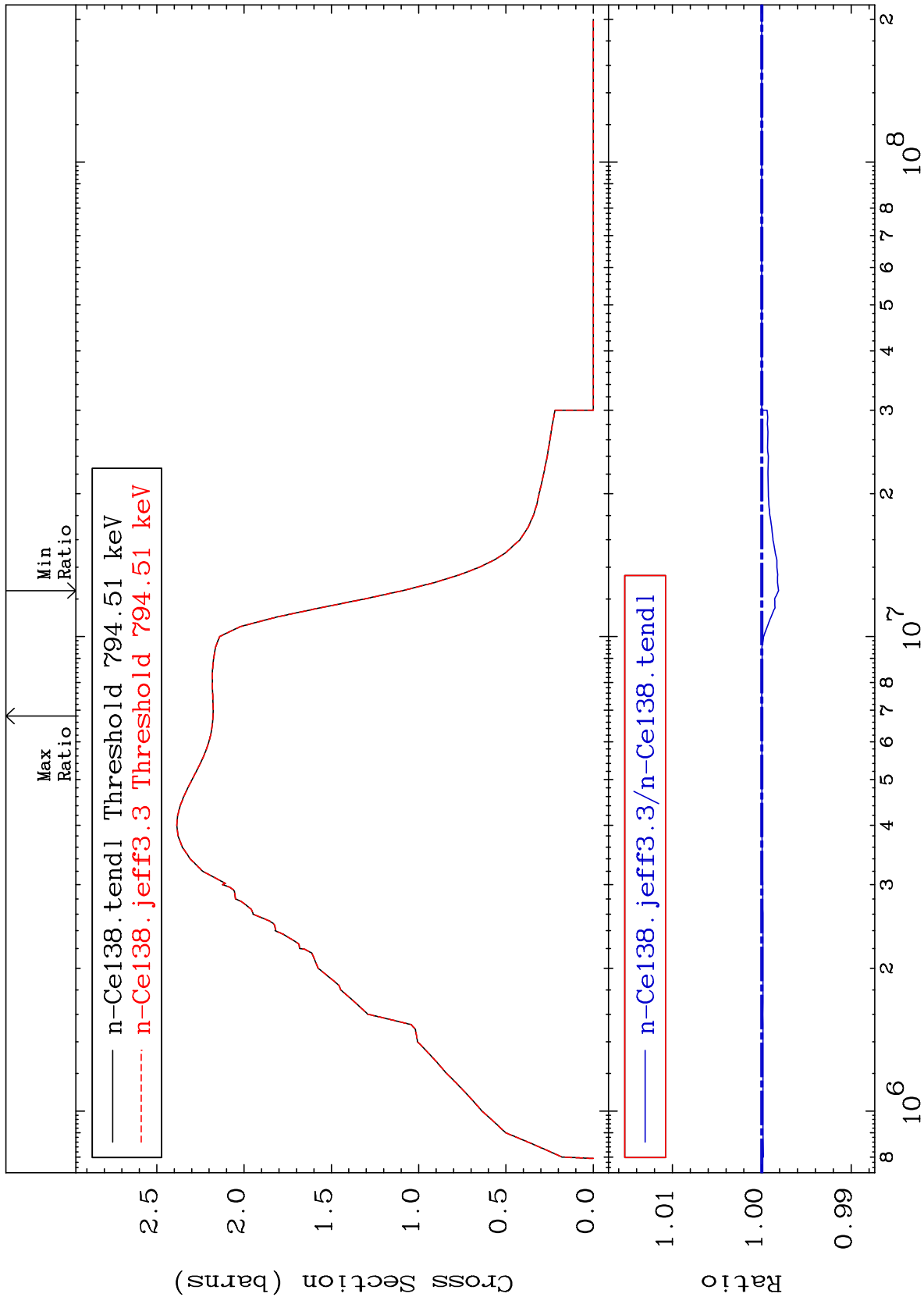


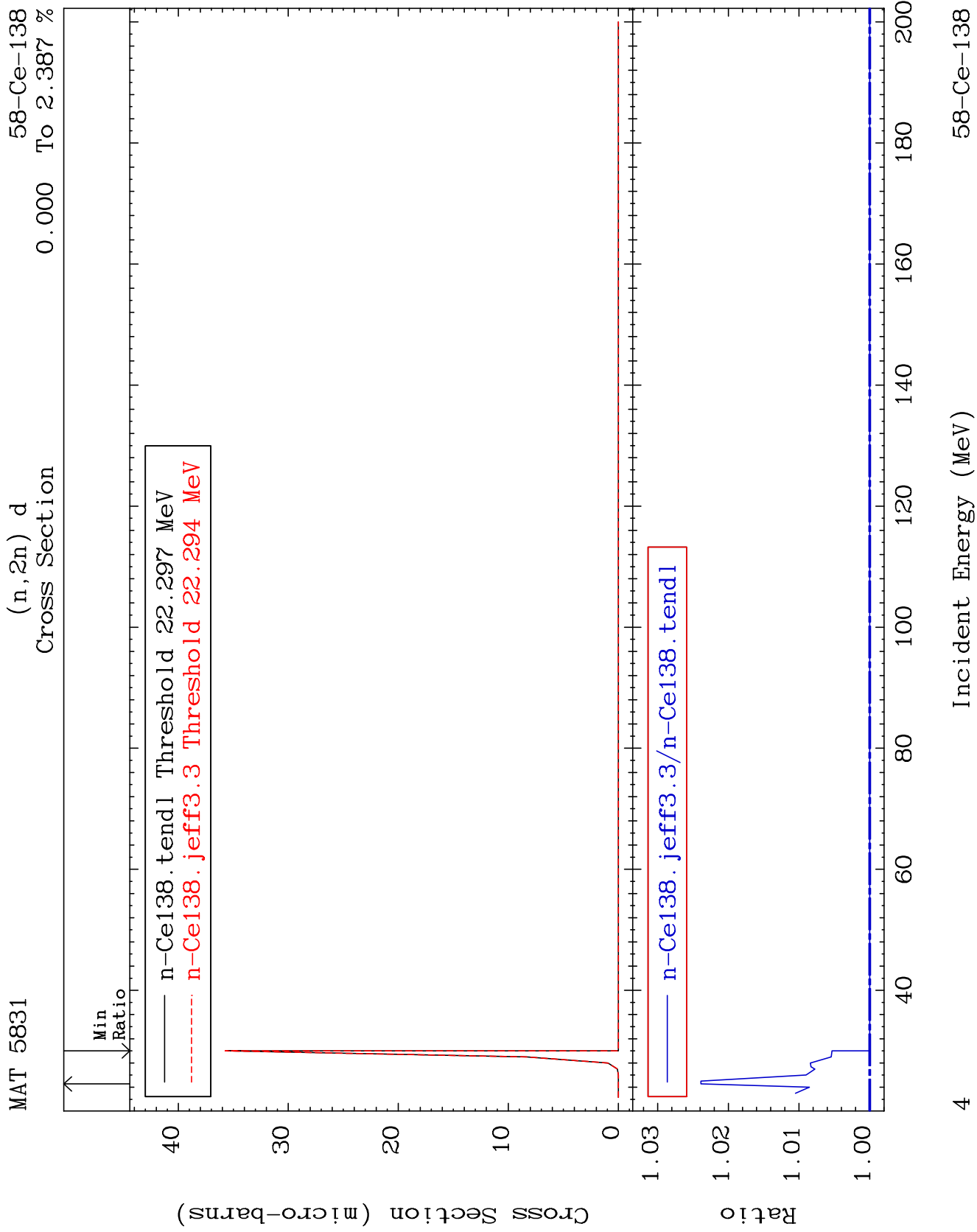
MAT 5831

58-Ce-138

Inelastic
Cross Section

-0.188 To 0.000 %





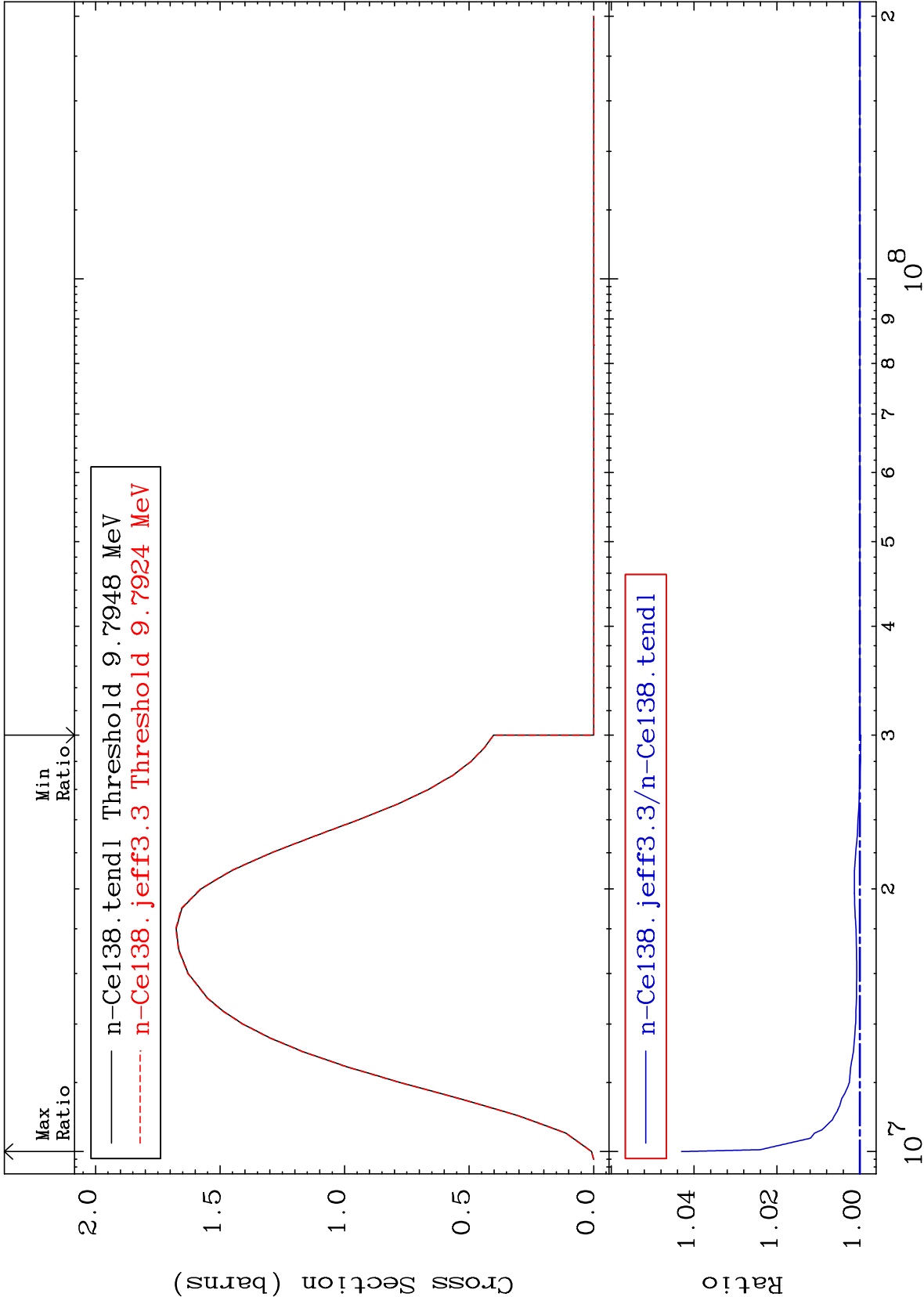
MAT 5831

(n,2n)

58-Ce-138

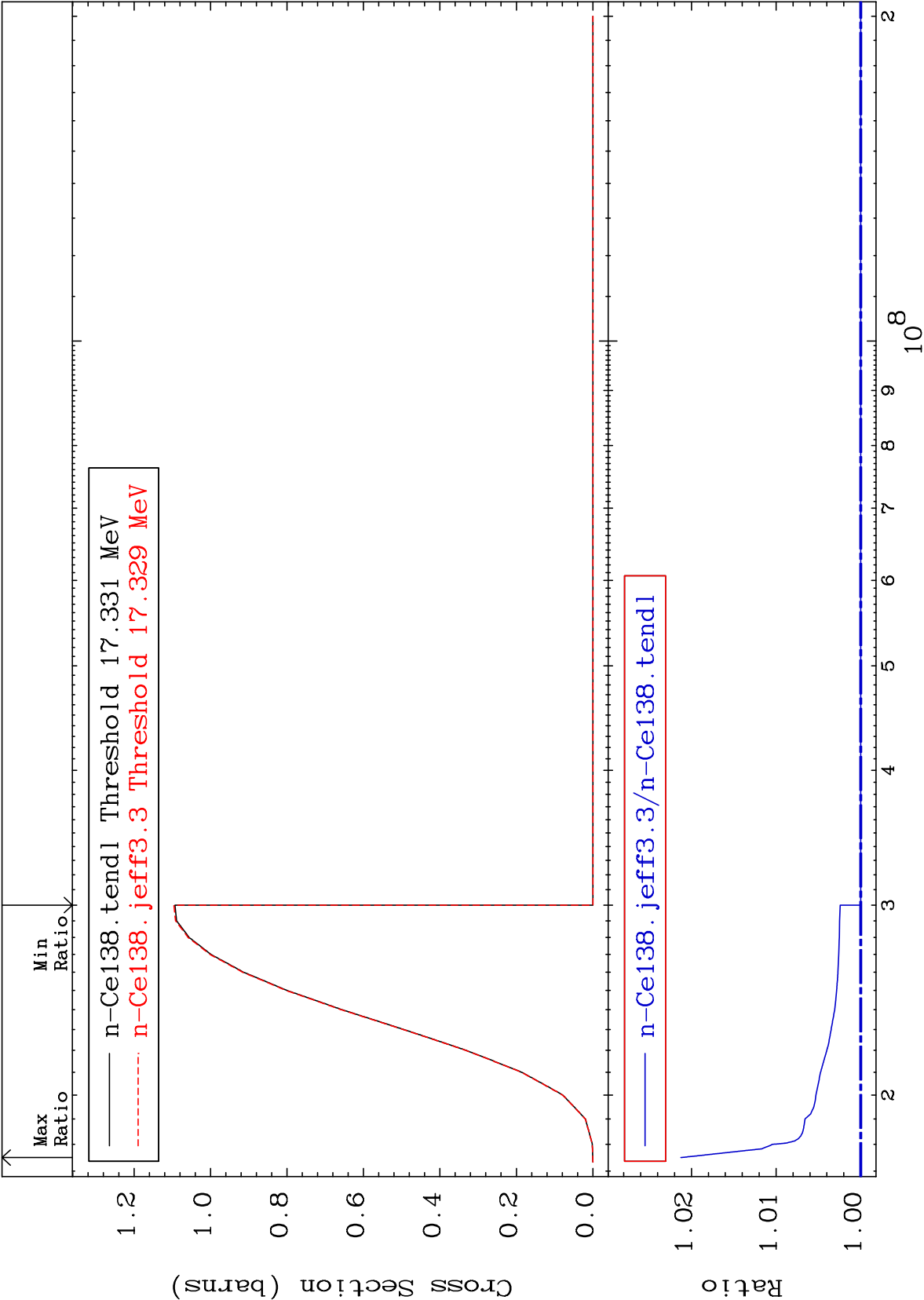
Cross Section

-0.025 To 4.303 %

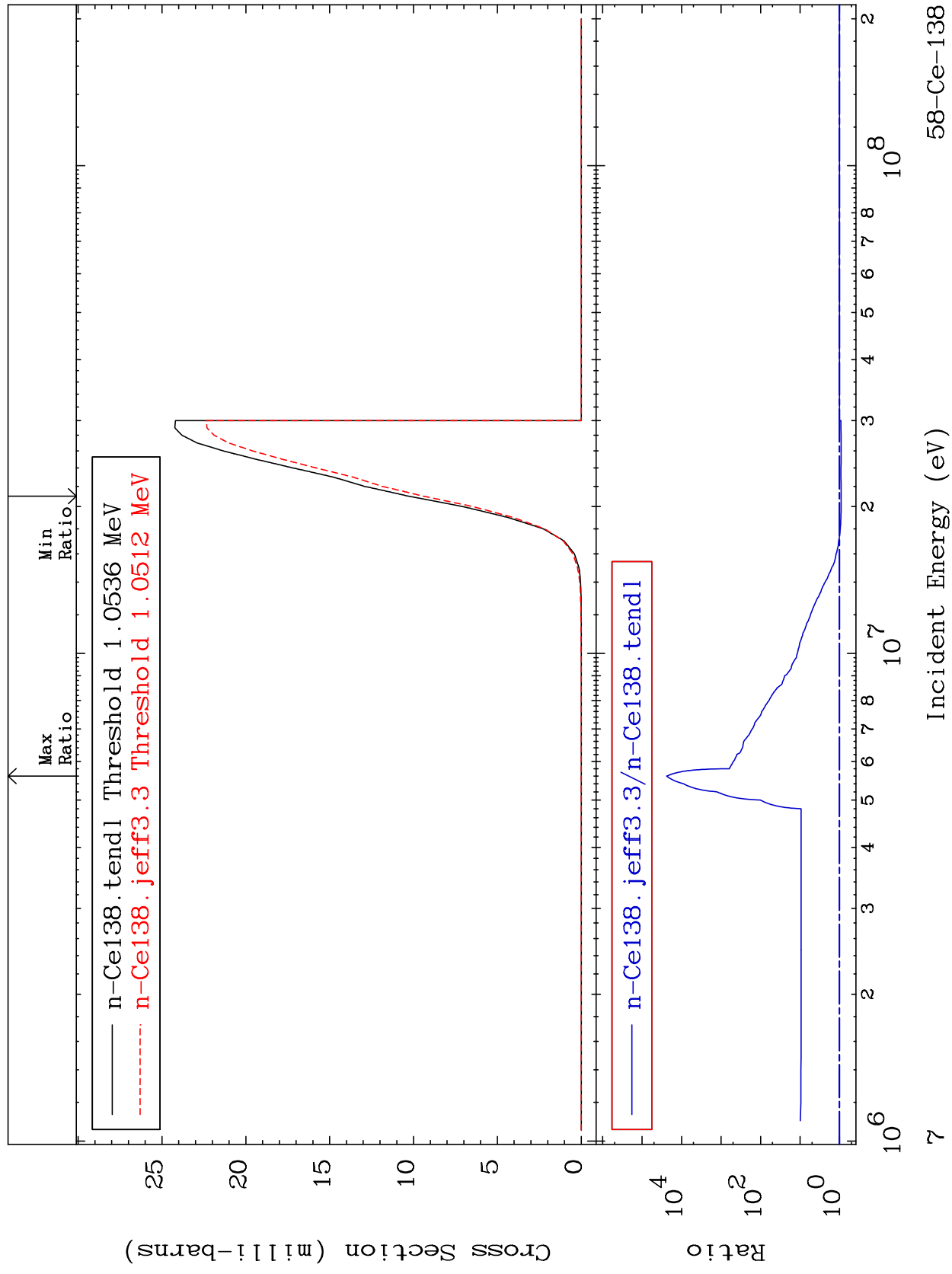


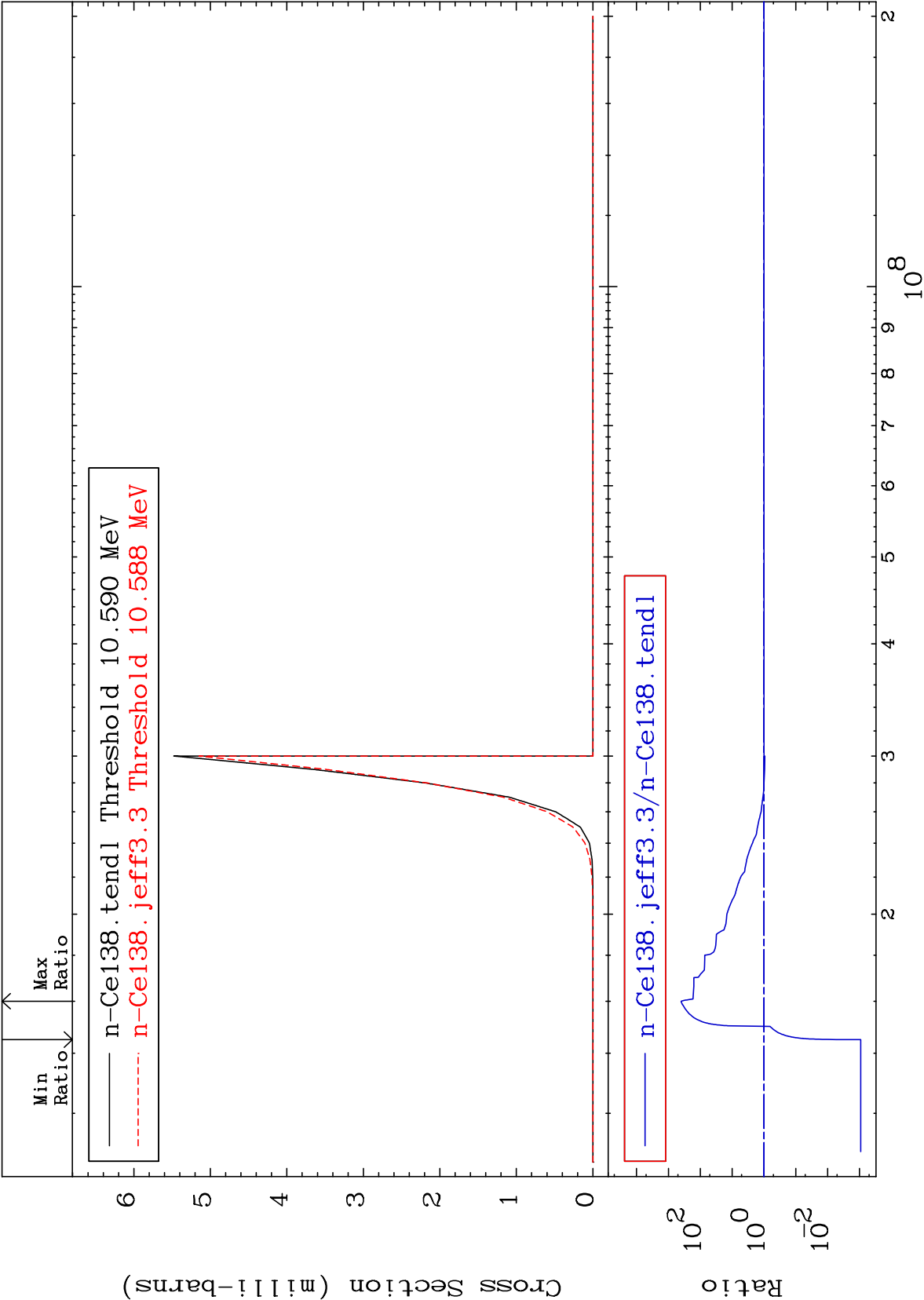
Incident Energy (eV)

58-Ce-138



(n, n') α
Cross Section
58-Ce-138
-8.562 To 9999. %

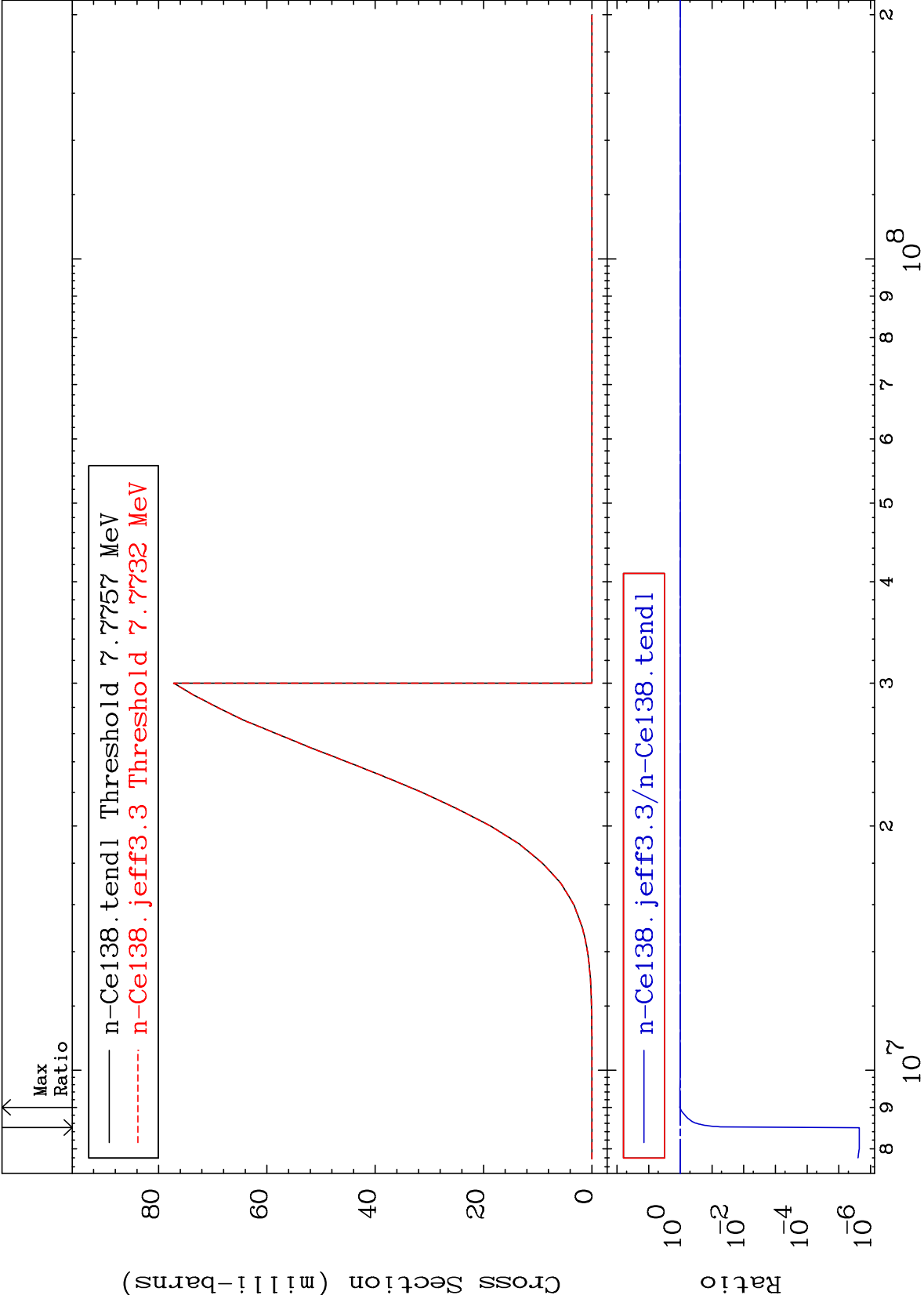




MAT 5831

(n,n') p
Cross Section

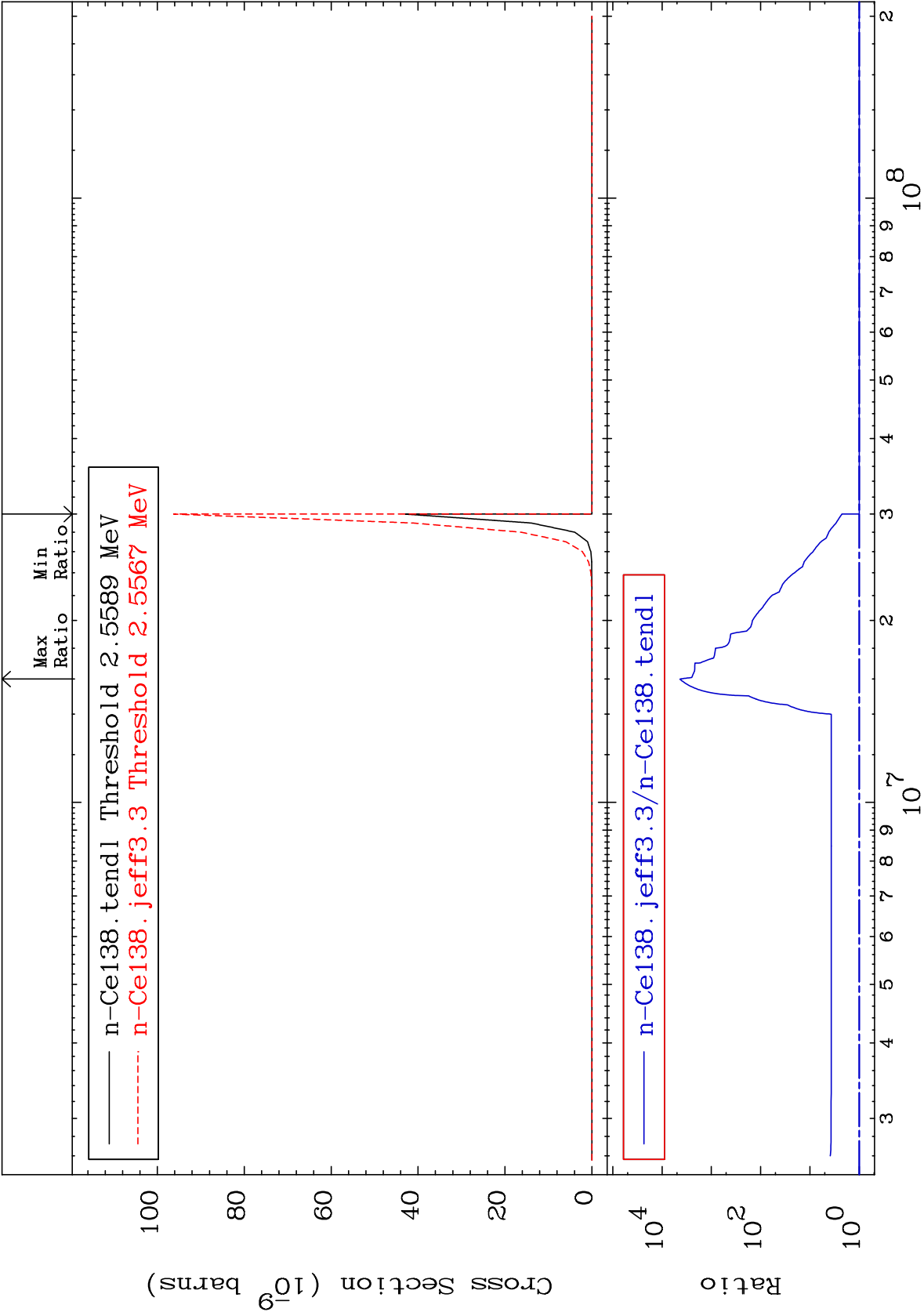
58-Ce-138
-100.0 To 4.665 %



10

Incident Energy (eV)

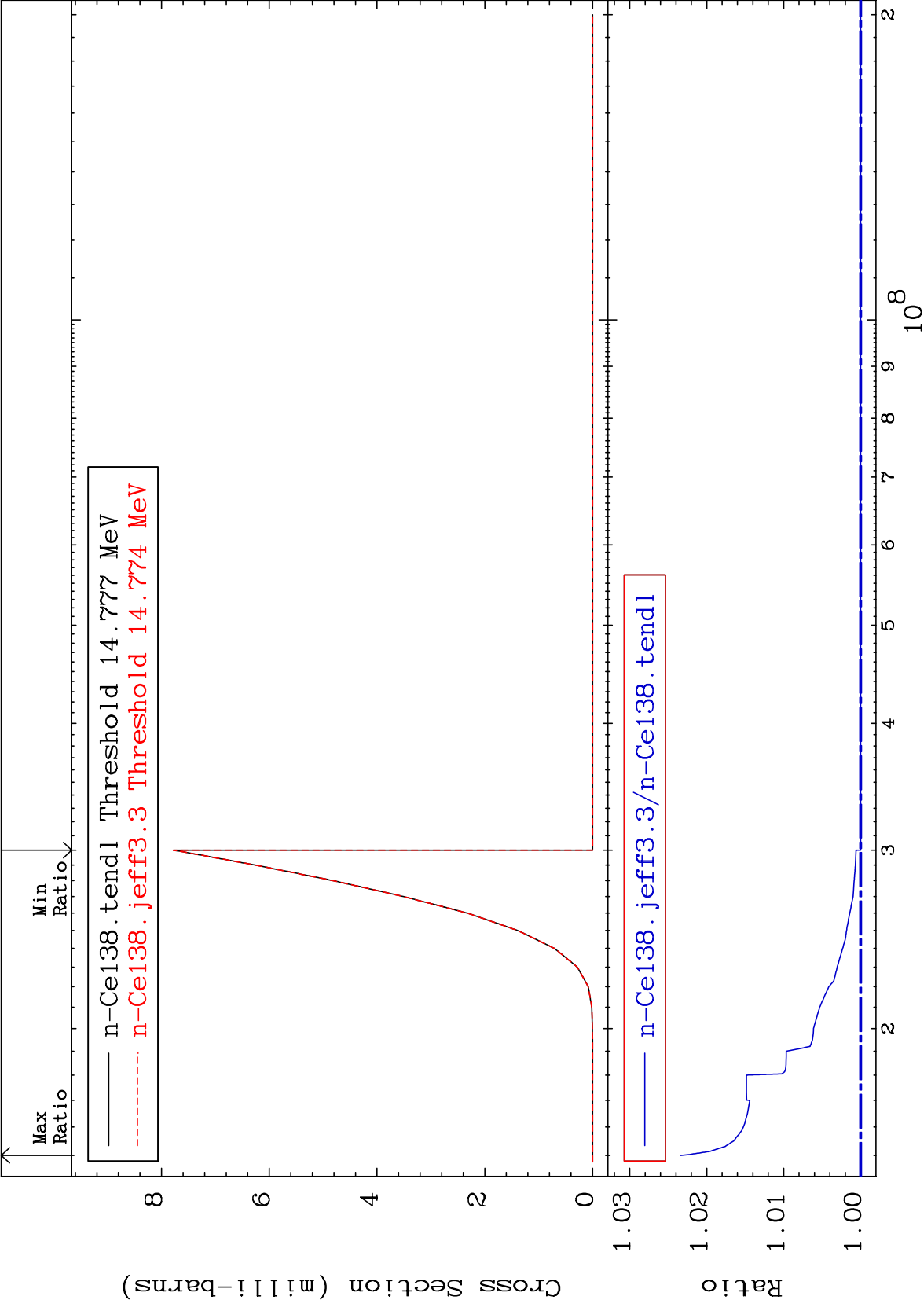
58-Ce-138

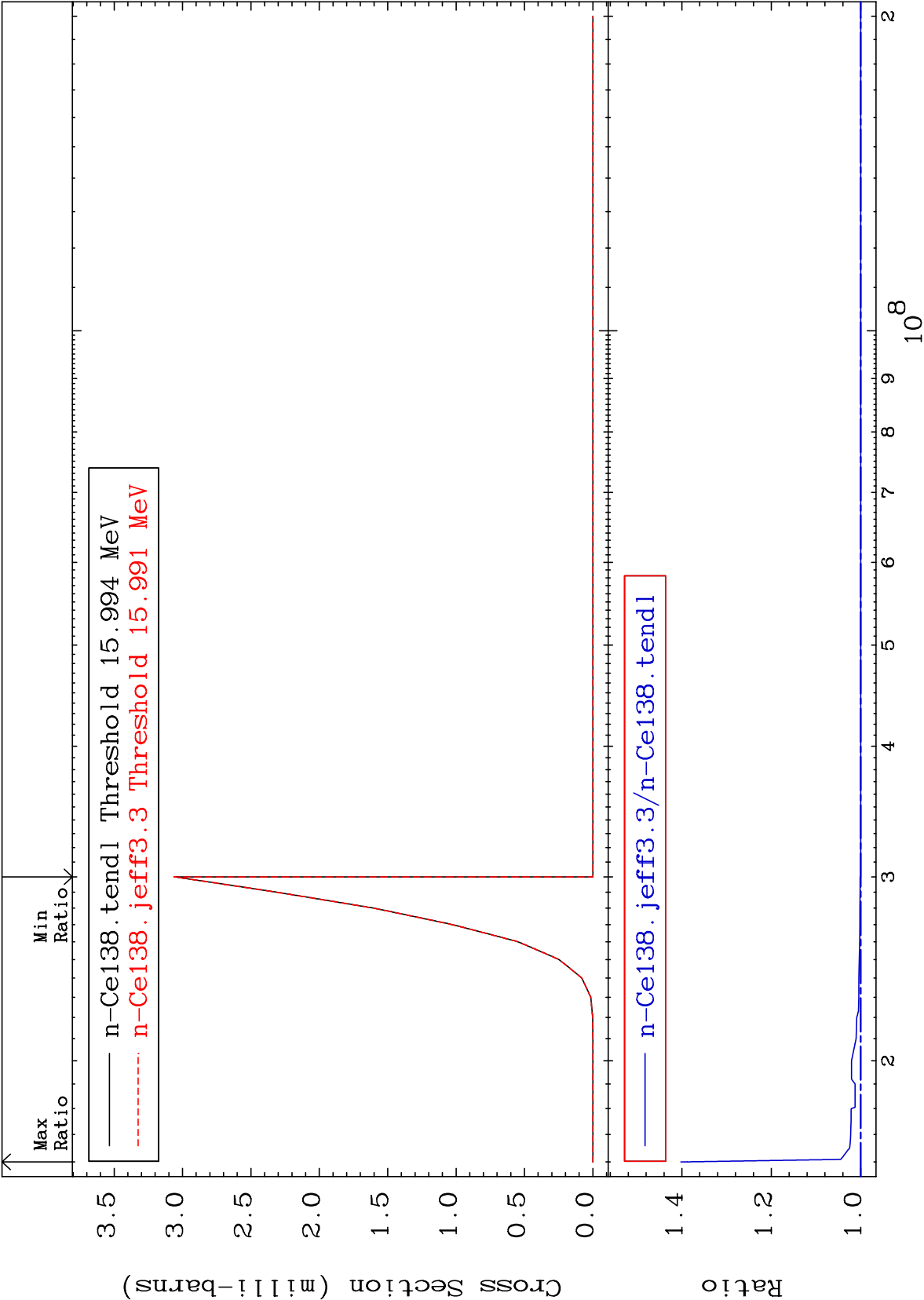


Cross Section

0.000

To 2.338 %

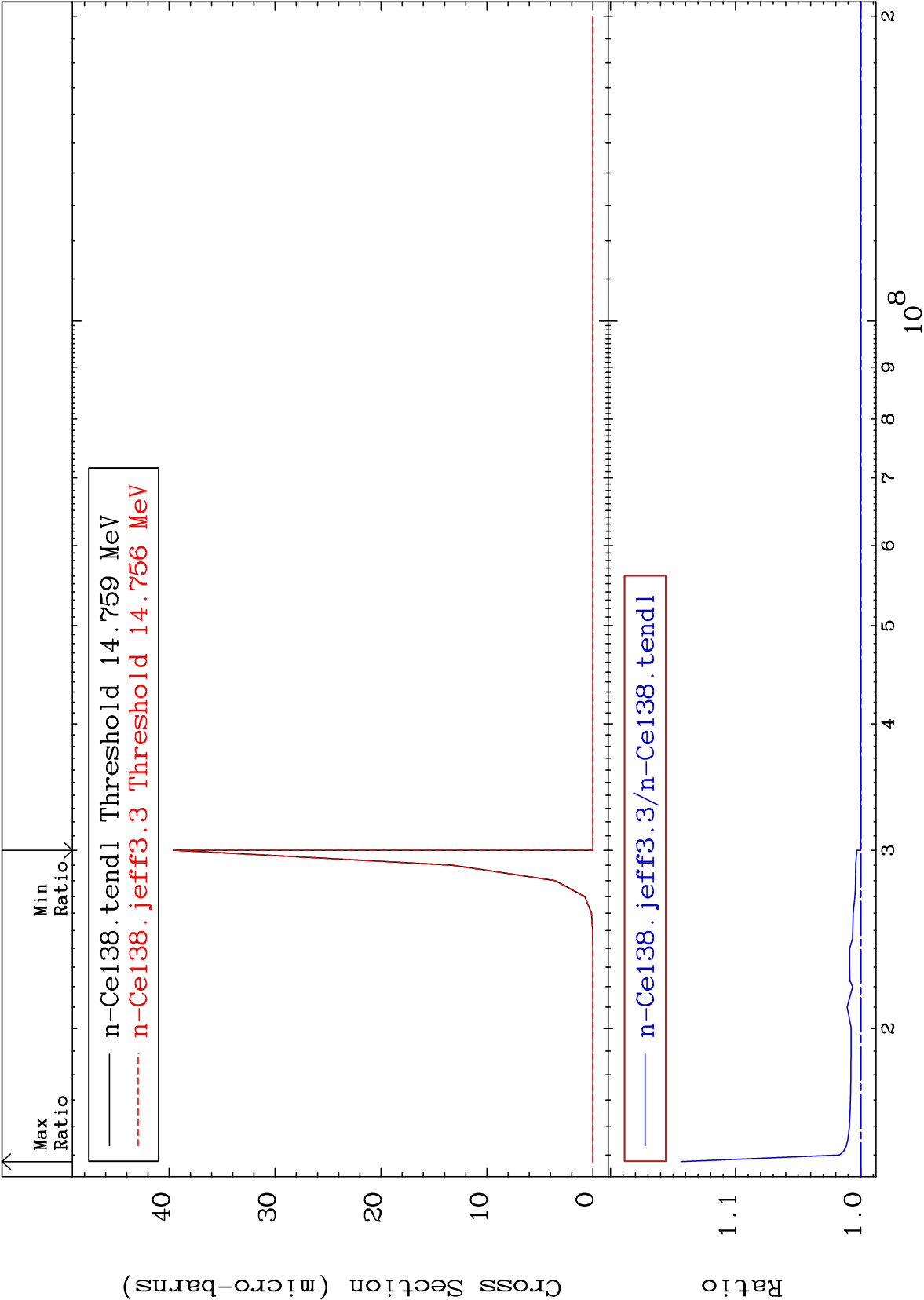




MAT 5831

(n,n') He-3
Cross Section

58-Ce-138
0.000 To 14.37 %



MAT 5831

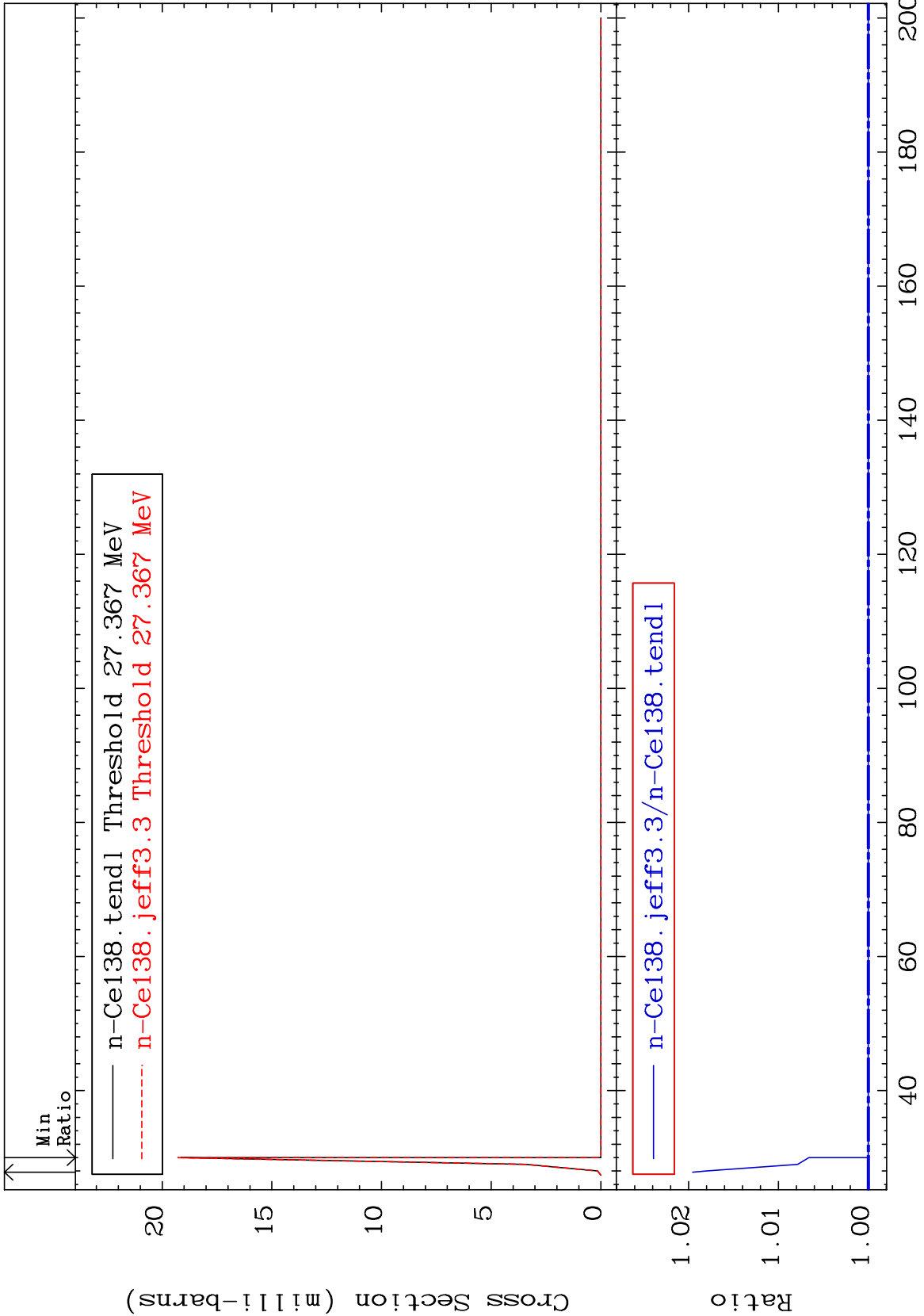
(n,4n)

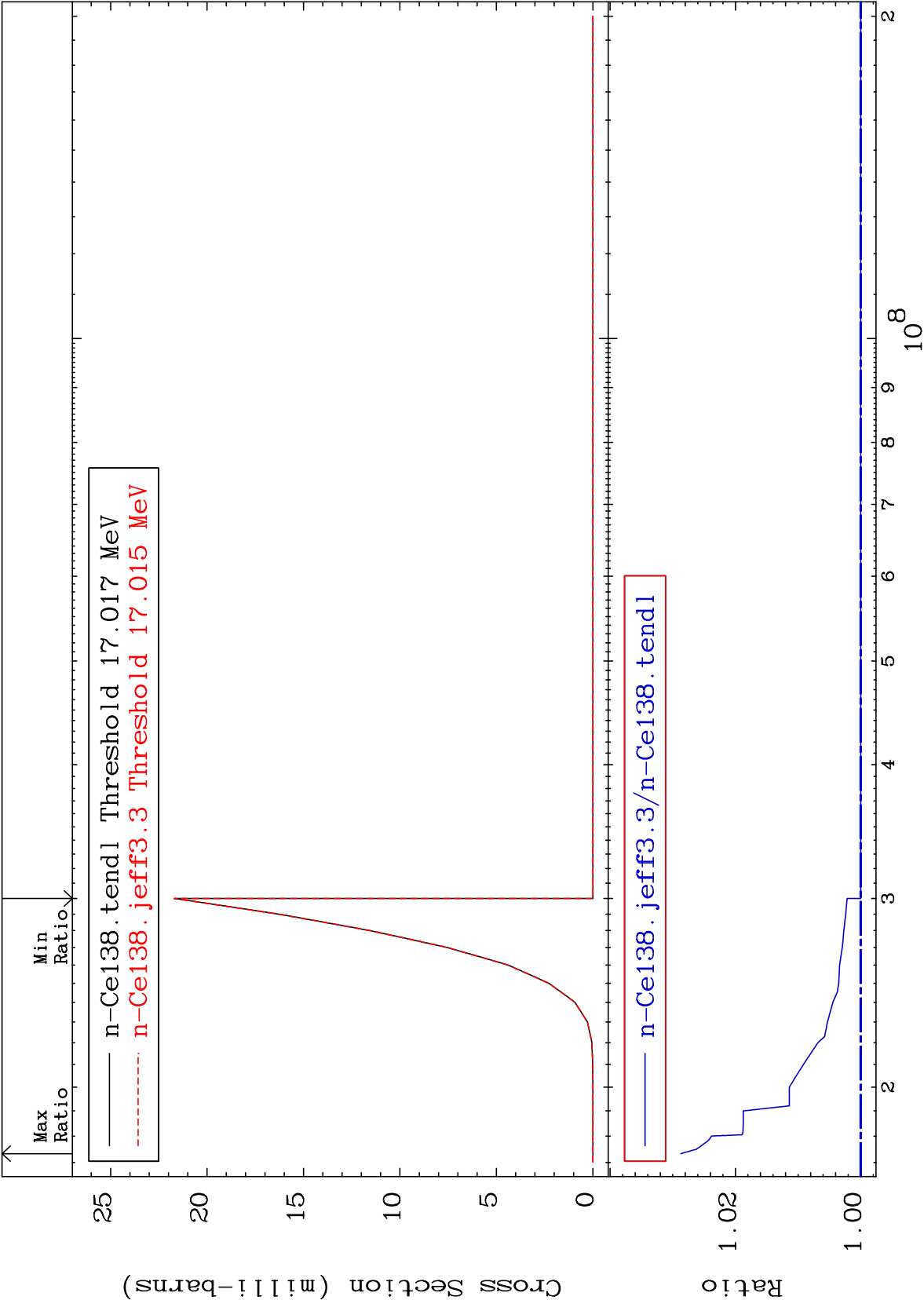
58-Ce-138

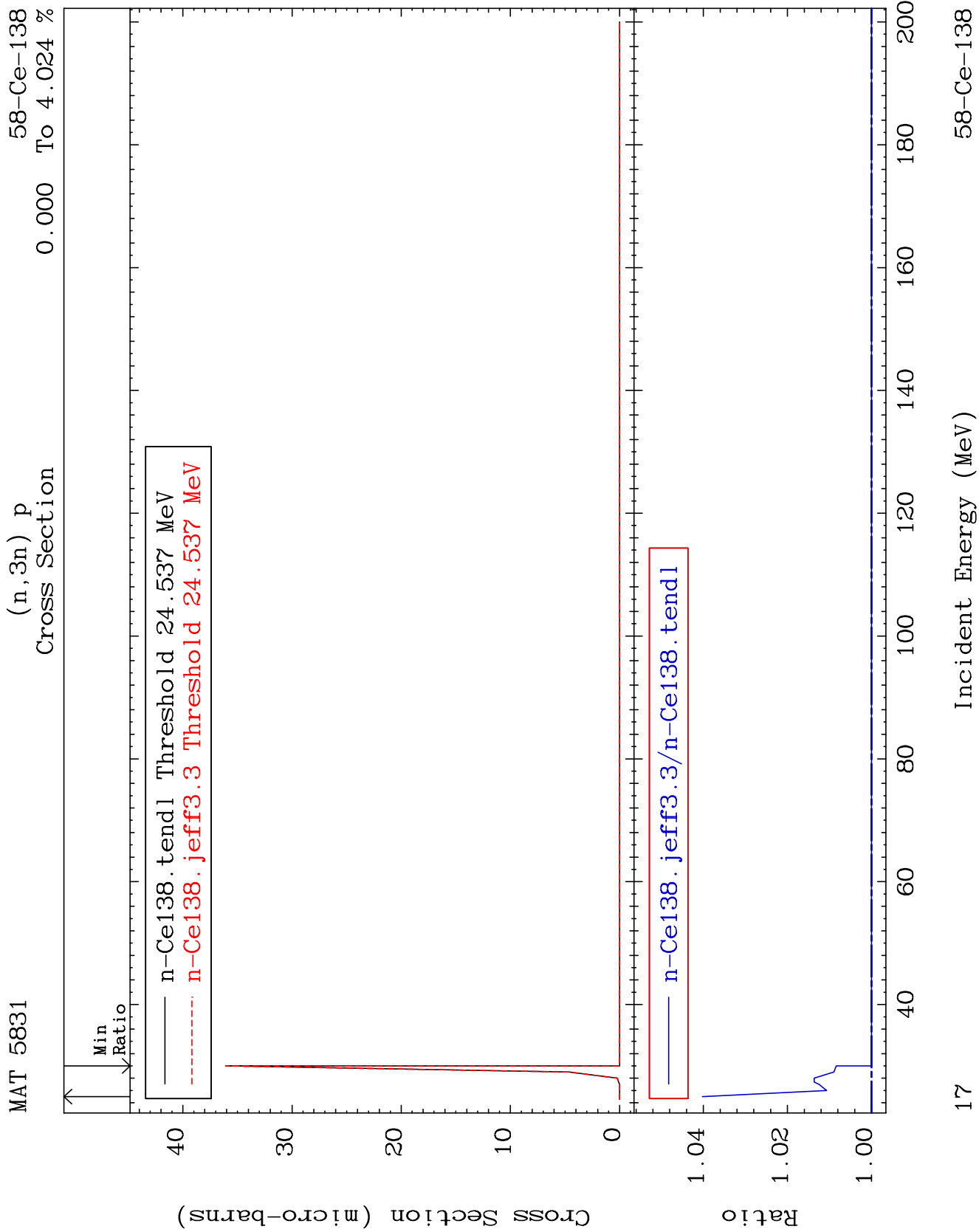
Cross Section

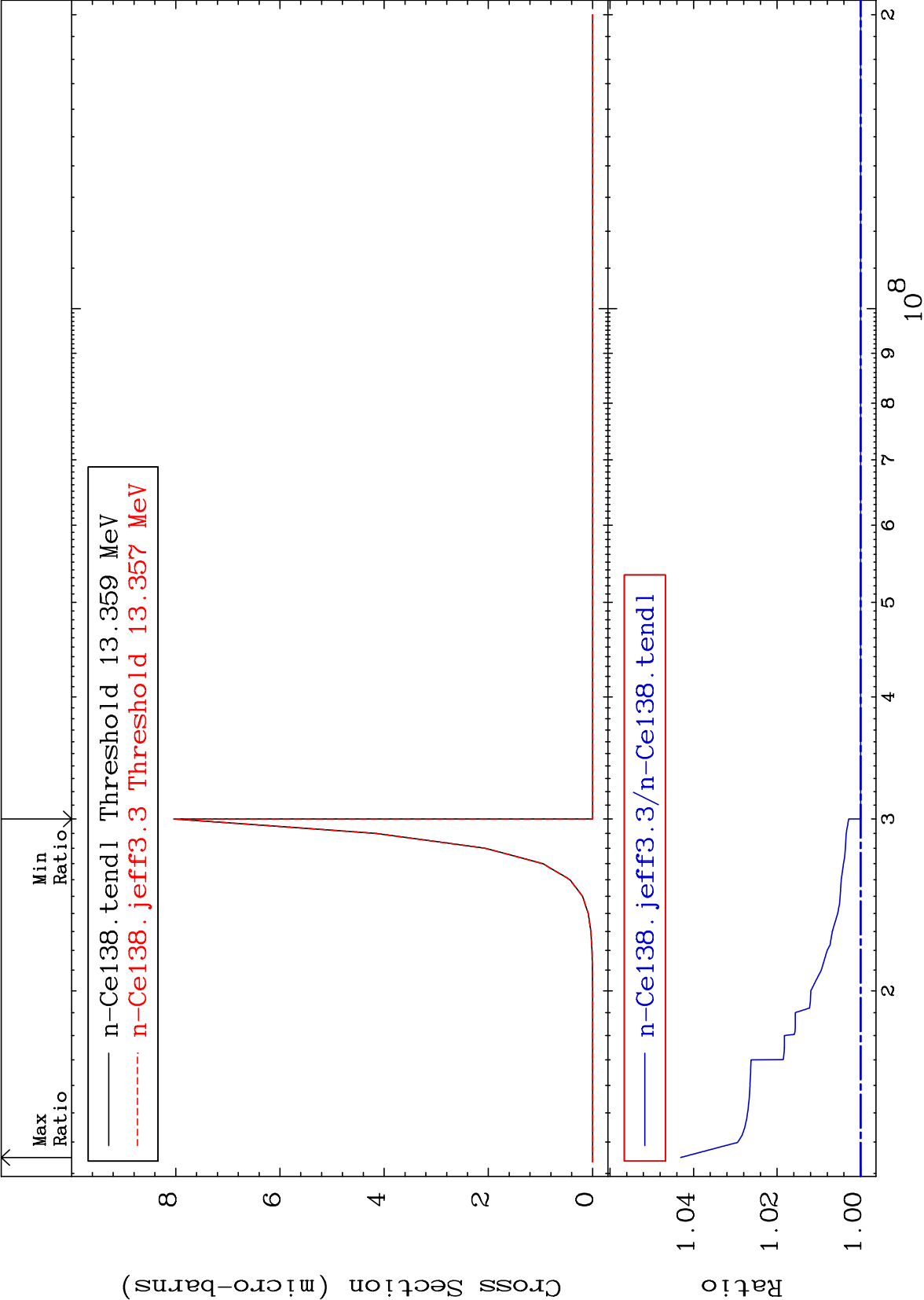
0.000

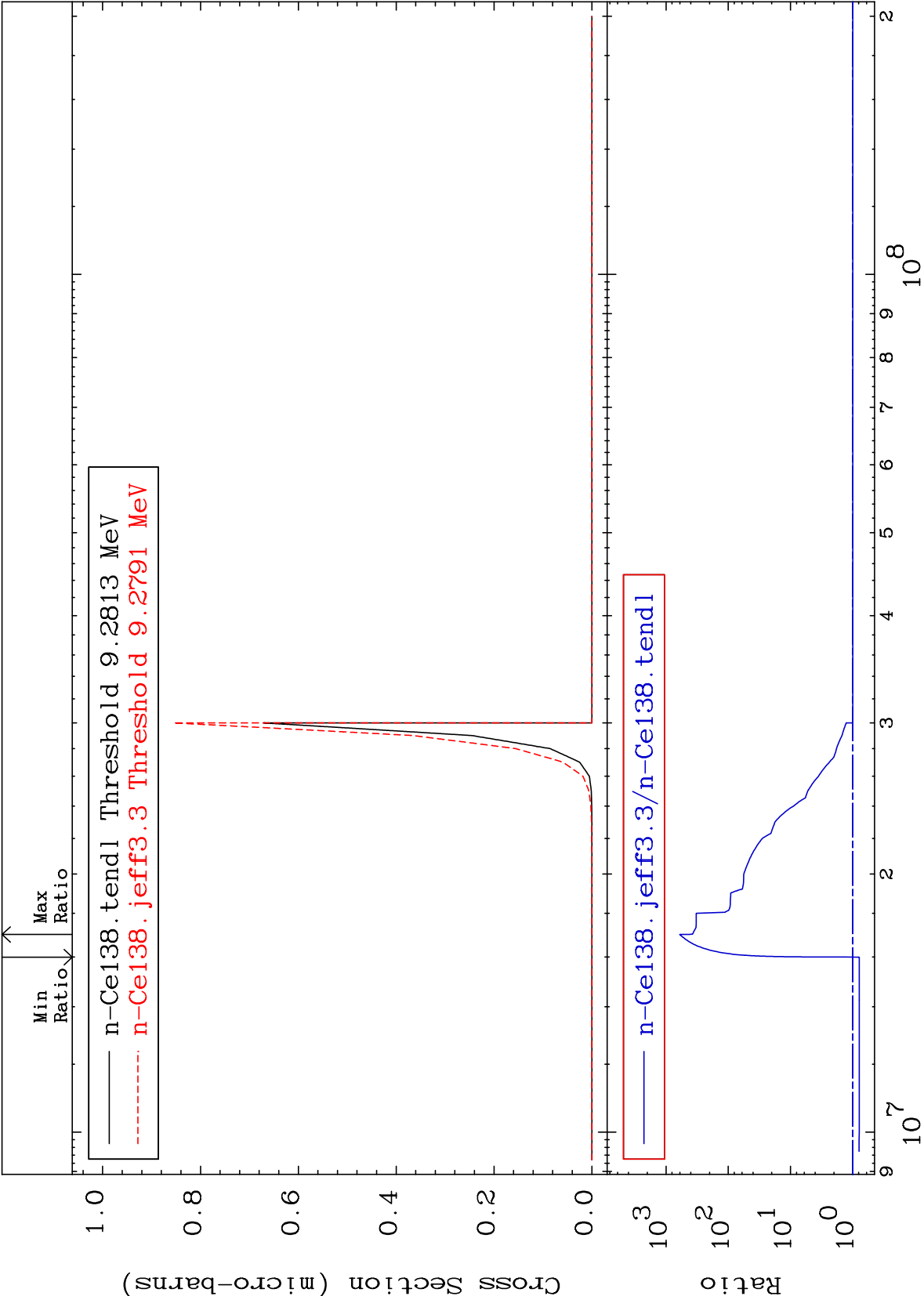
To 1.955 %







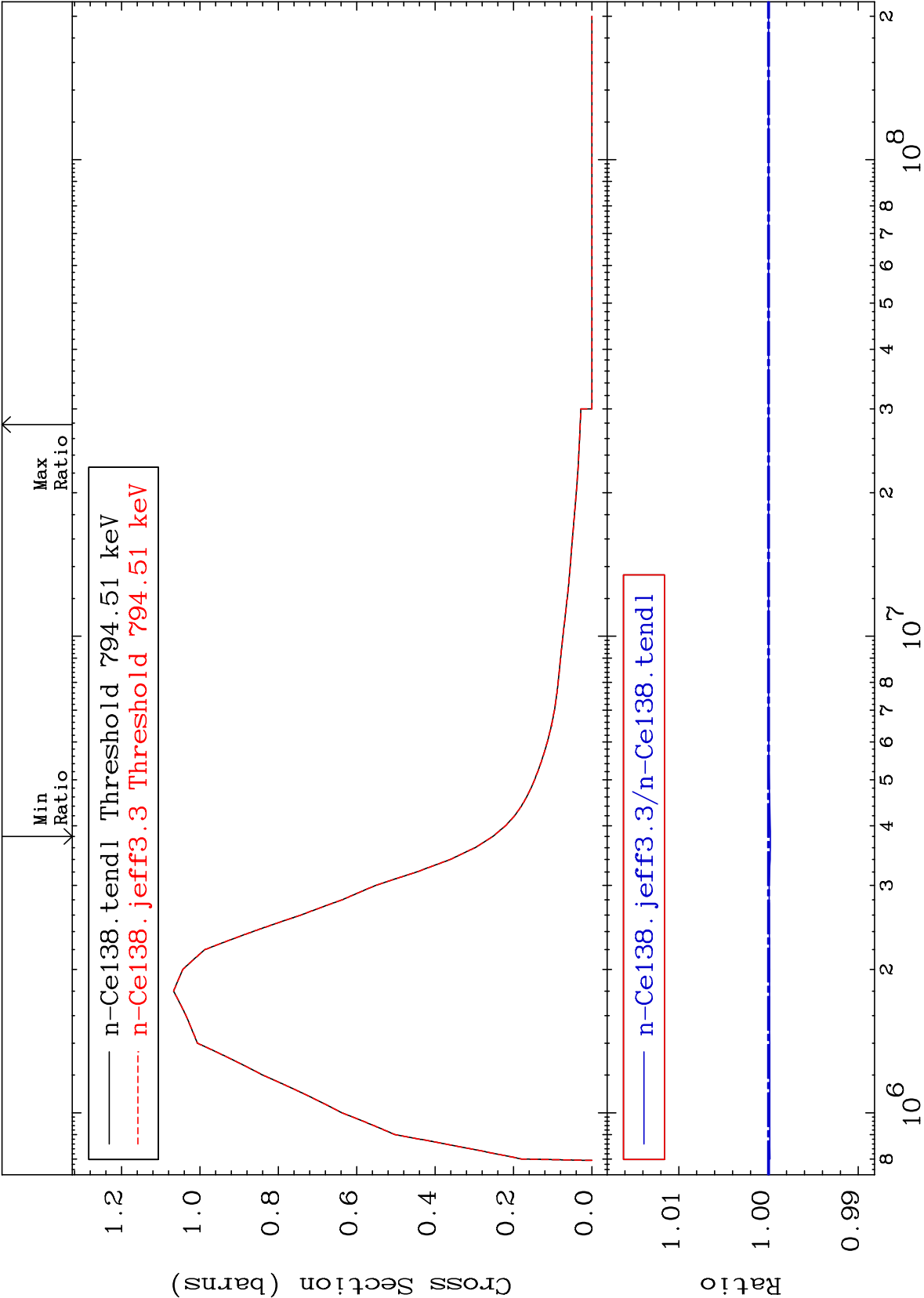


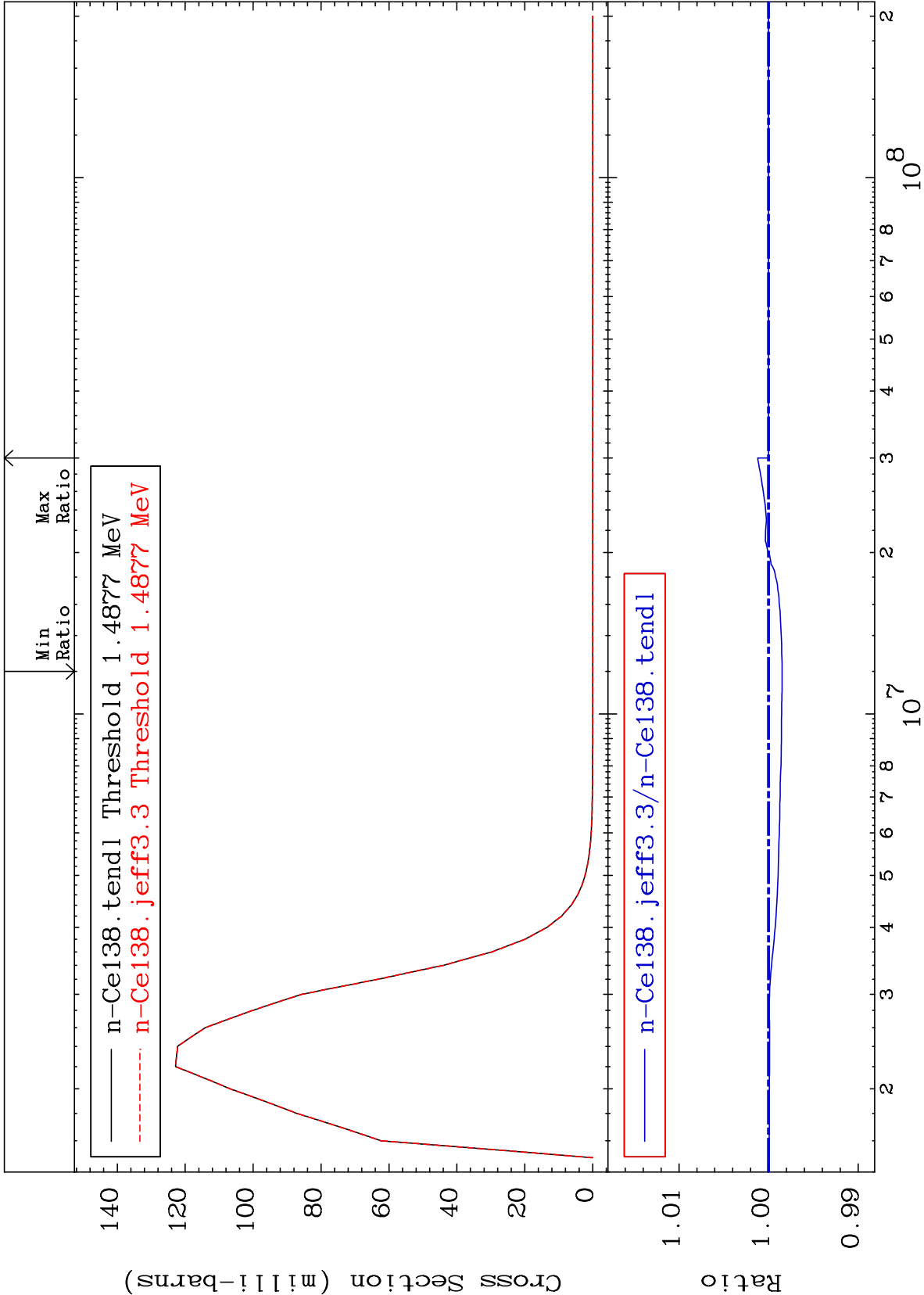


MAT 5831

MT= 51 (n,n') Level
Cross Section

58-Ce-138
-0.021 To 0.000 %





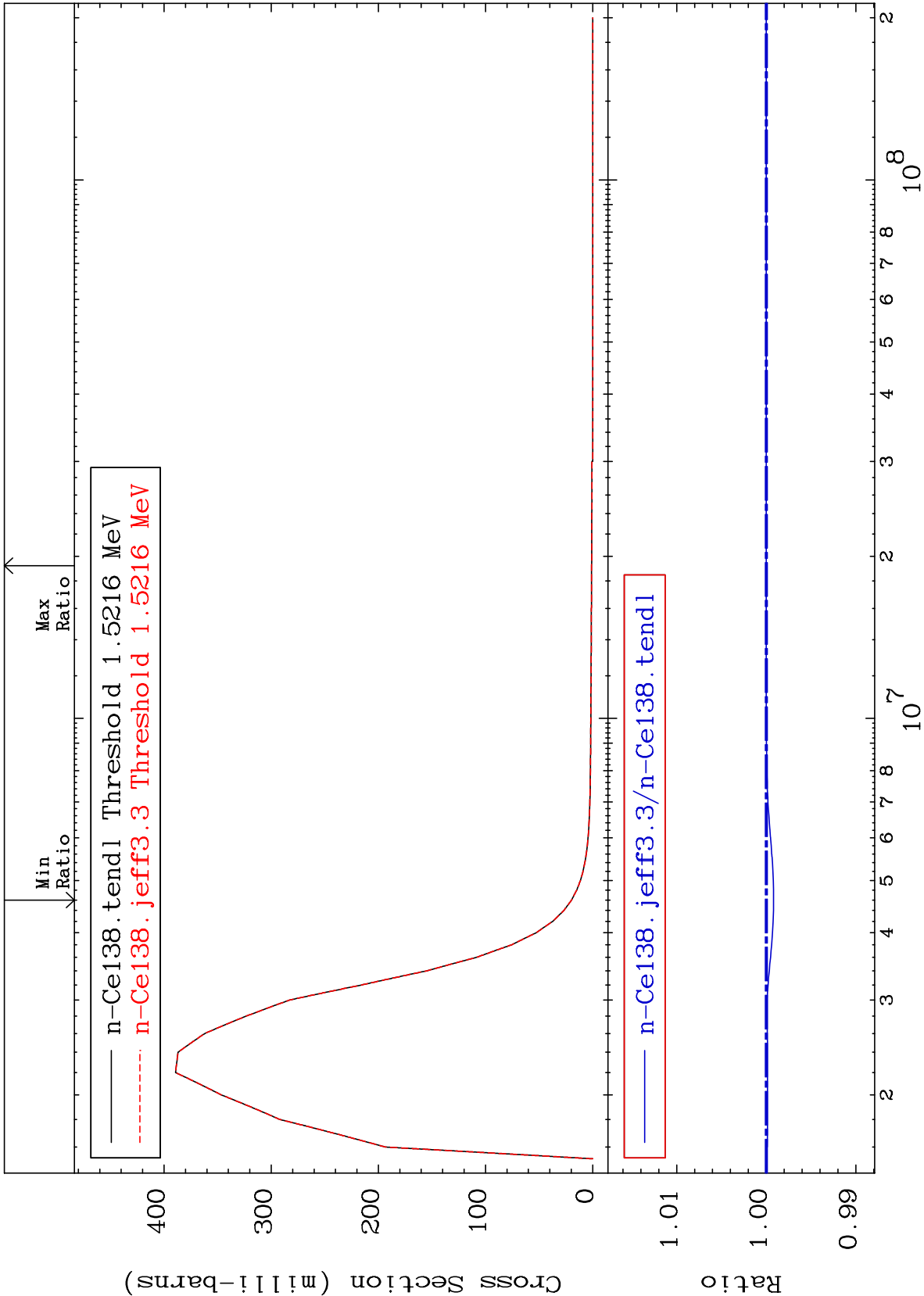
MAT 5831

MT= 53 (n,n') Level

58-Ce-138

-0.081 To 0.000 %

Cross Section



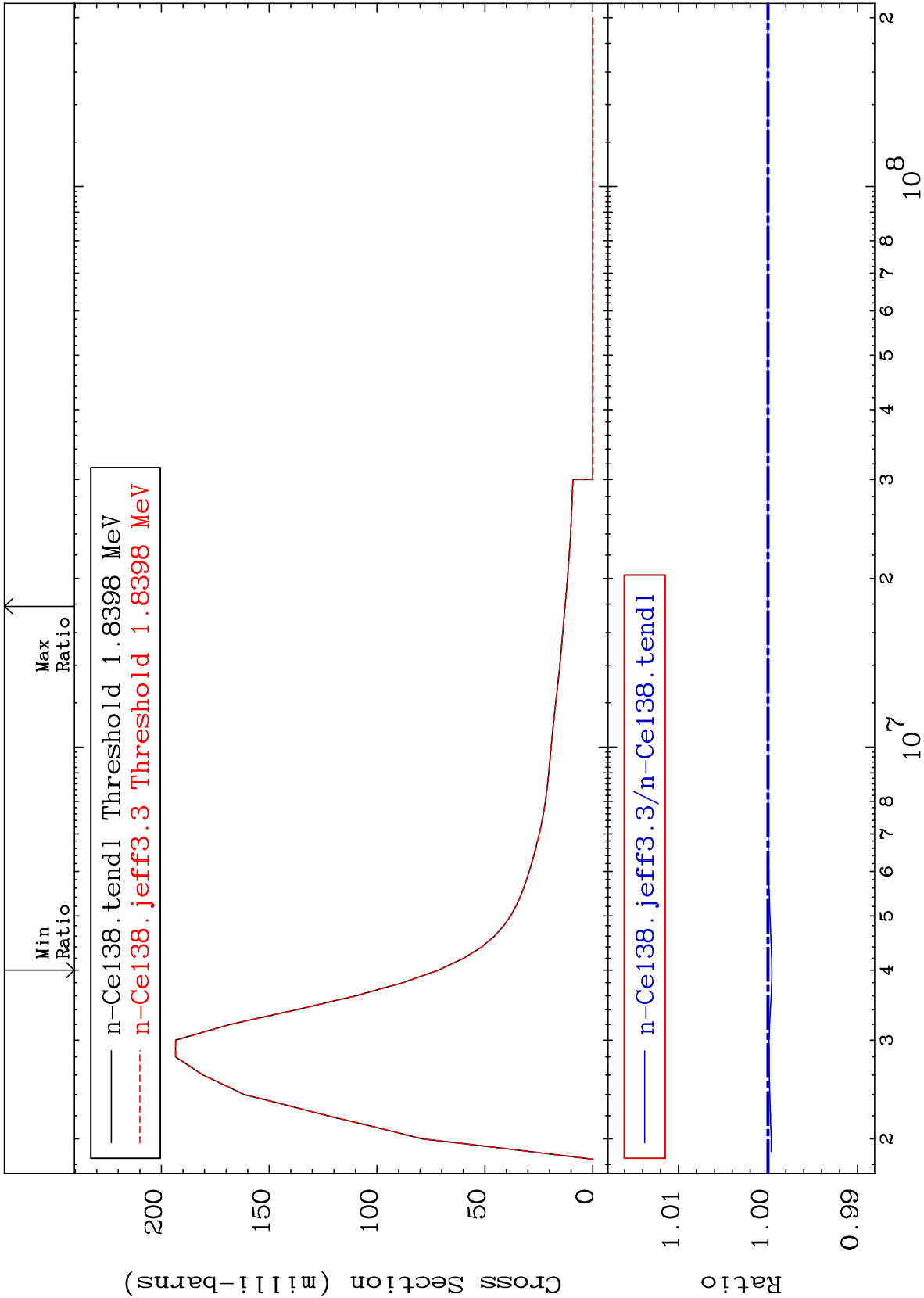
MAT 5831

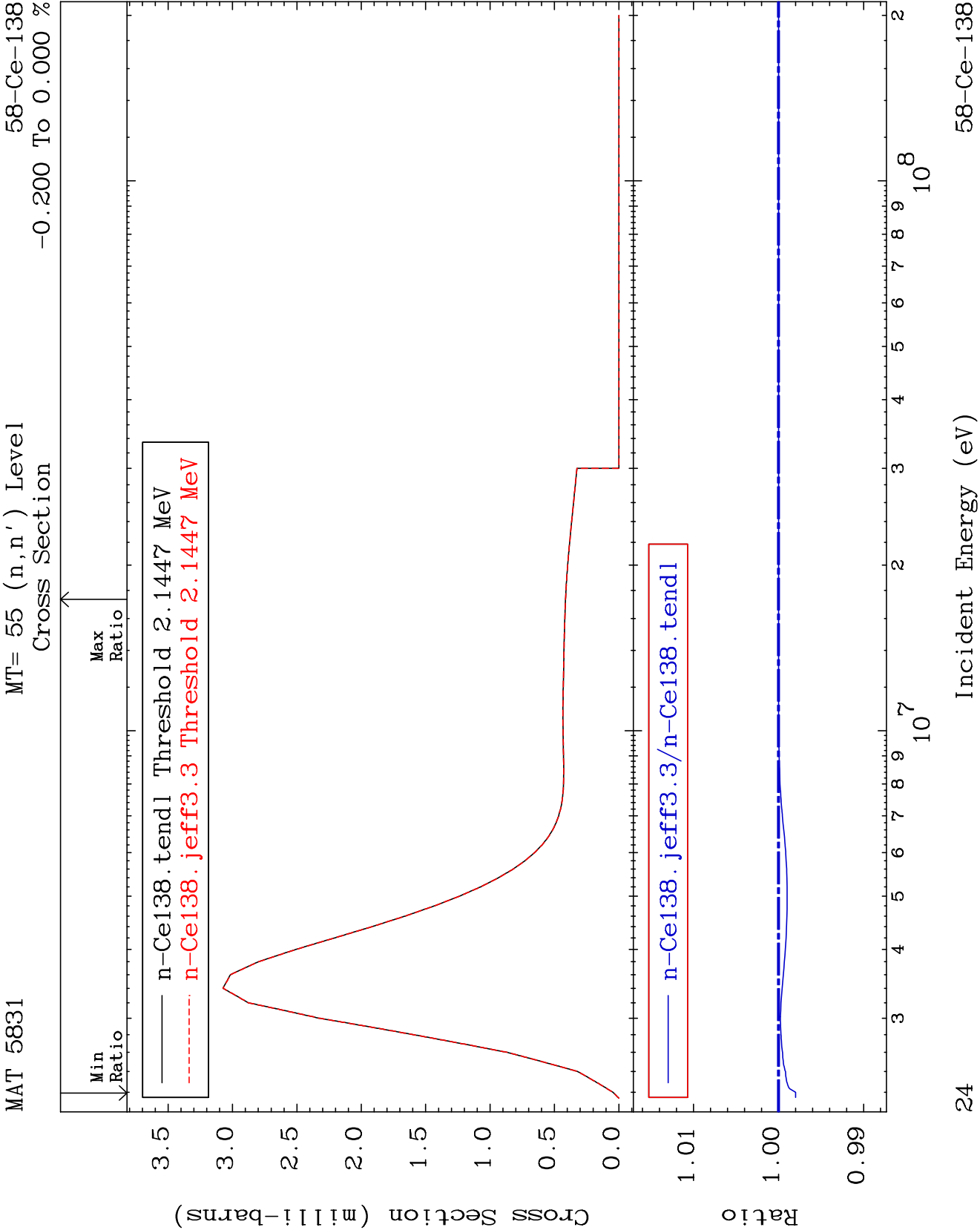
MT= 54 (n,n') Level

58-Ce-138

-0.043 To 0.000 %

Cross Section





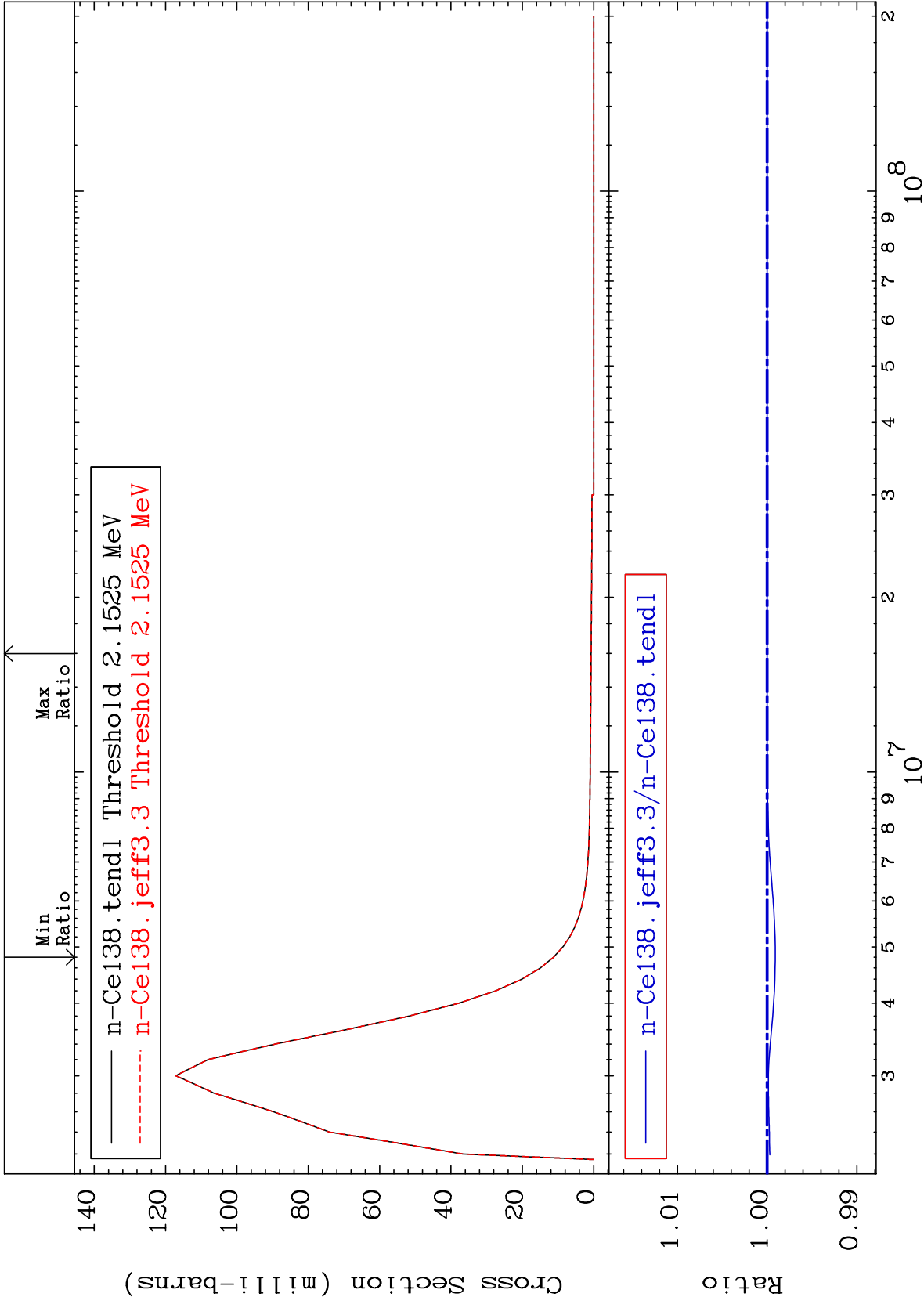
MAT 5831

MT= 56 (n,n') Level

58-Ce-138

-0.091 To 0.000 %

Cross Section



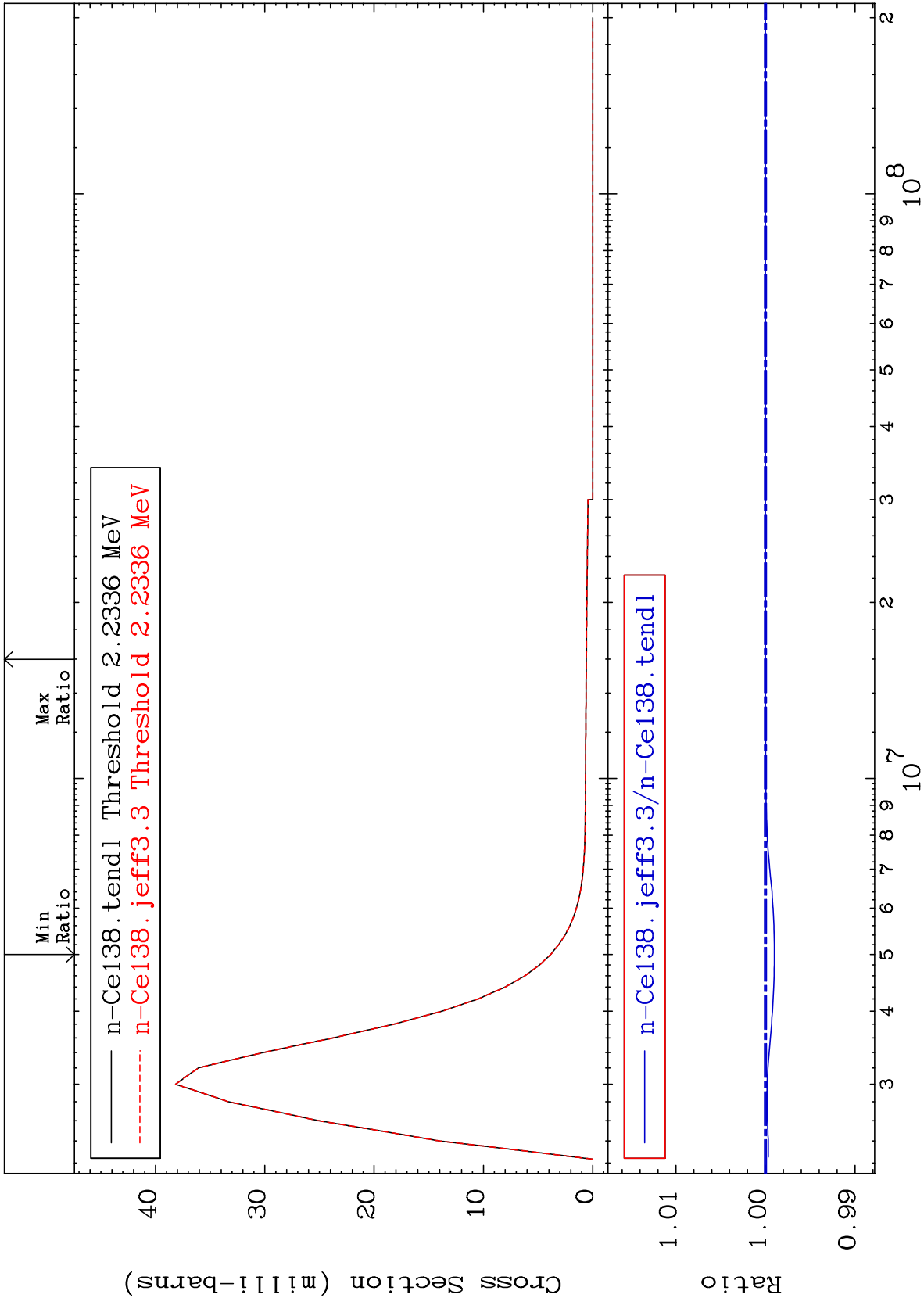
MAT 5831

MT= 58 (n,n') Level

58-Ce-138

-0.099 To 0.000 %

Cross Section



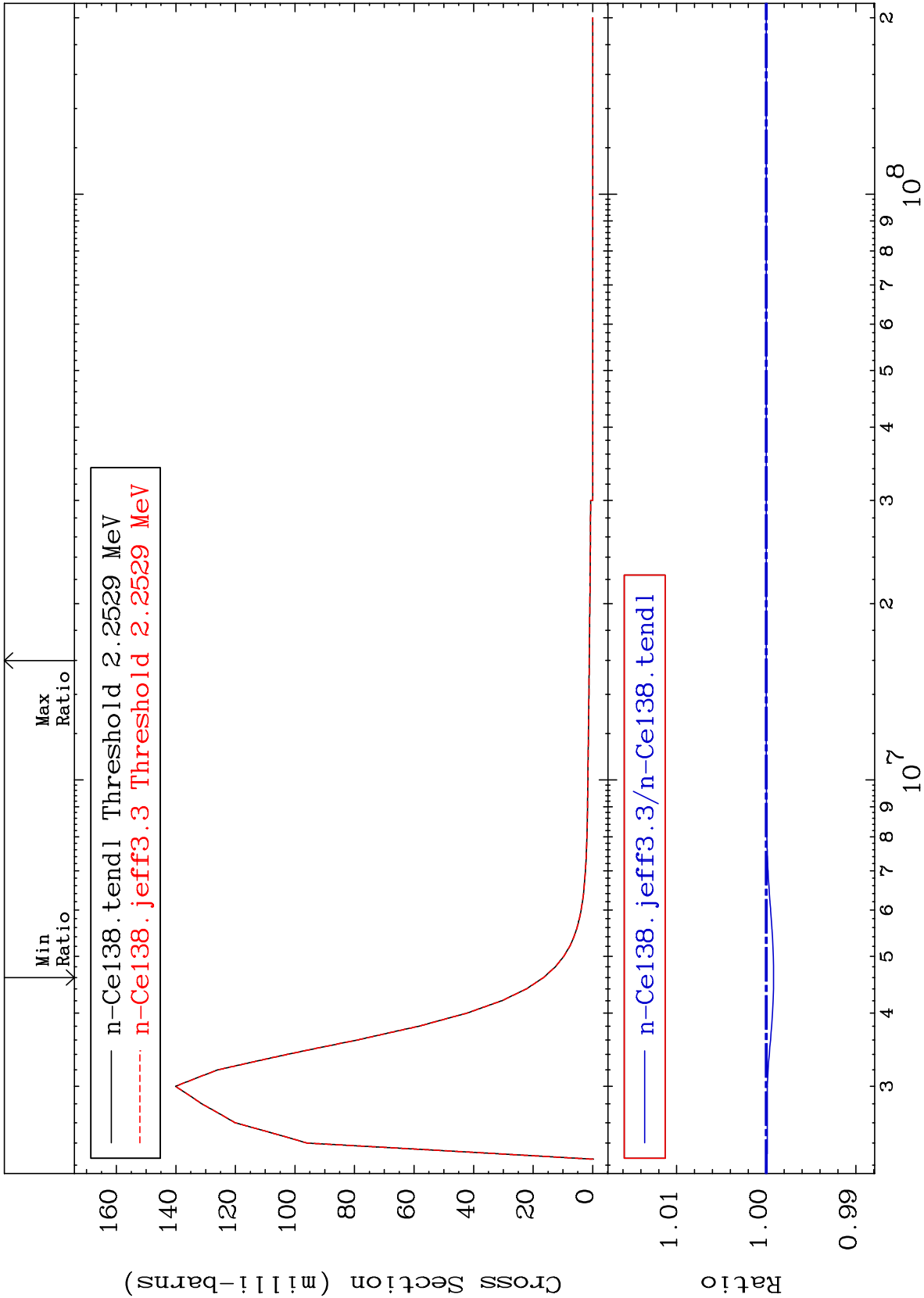
MAT 5831

MT= 59 (n,n') Level

58-Ce-138

-0.082 To 0.000 %

Cross Section

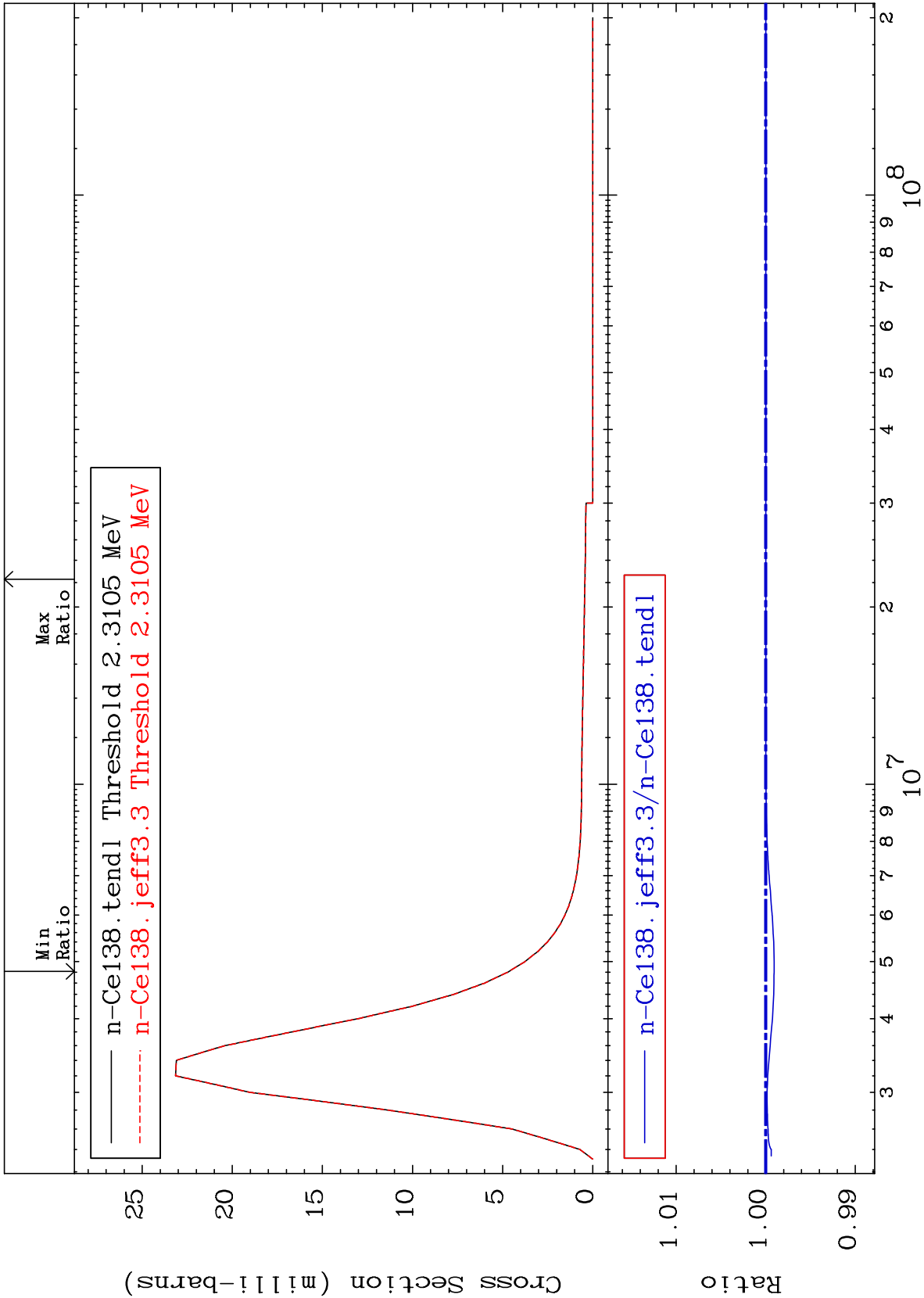


MAT 5831

MT= 60 (n,n') Level

58-Ce-138

-0.093 To 0.000 %



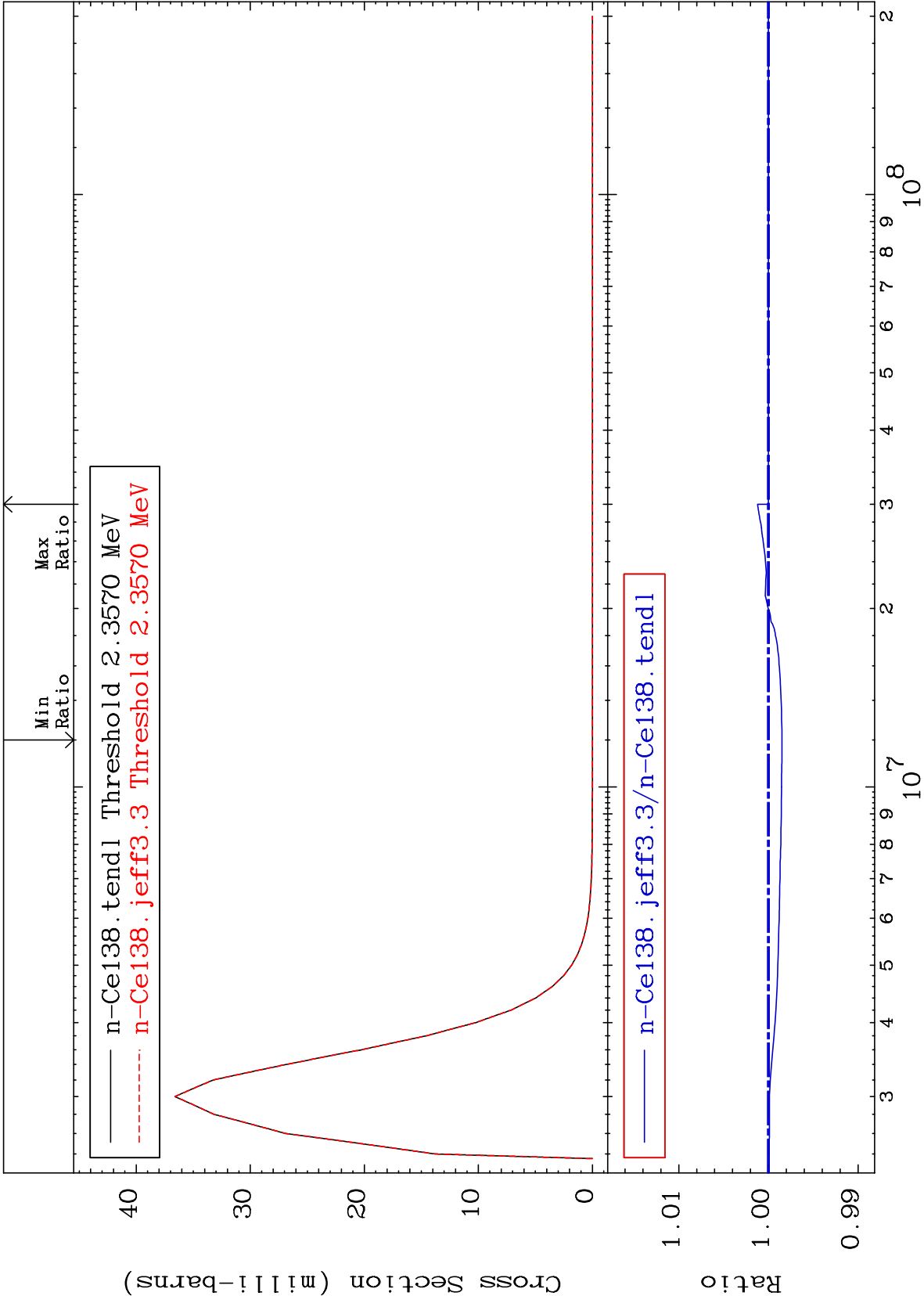
MAT 5831

MT= 61 (n,n') Level

58-Ce-138

-0.152 To 0.122 %

Cross Section



30

Incident Energy (eV)

58-Ce-138

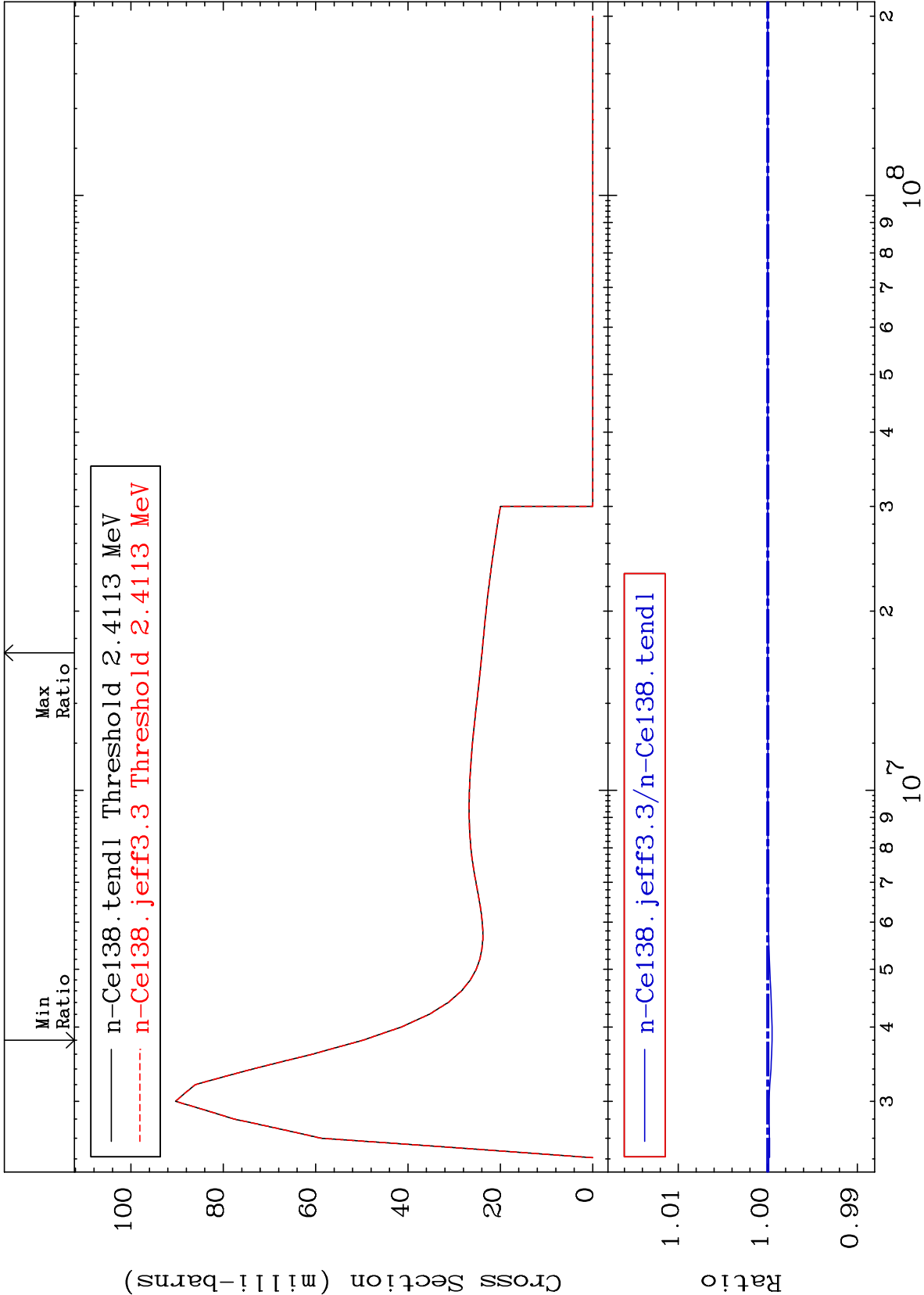
MAT 5831

MT= 62 (n,n') Level

58-Ce-138

-0.047 To 0.000 %

Cross Section



31

Incident Energy (eV)

58-Ce-138

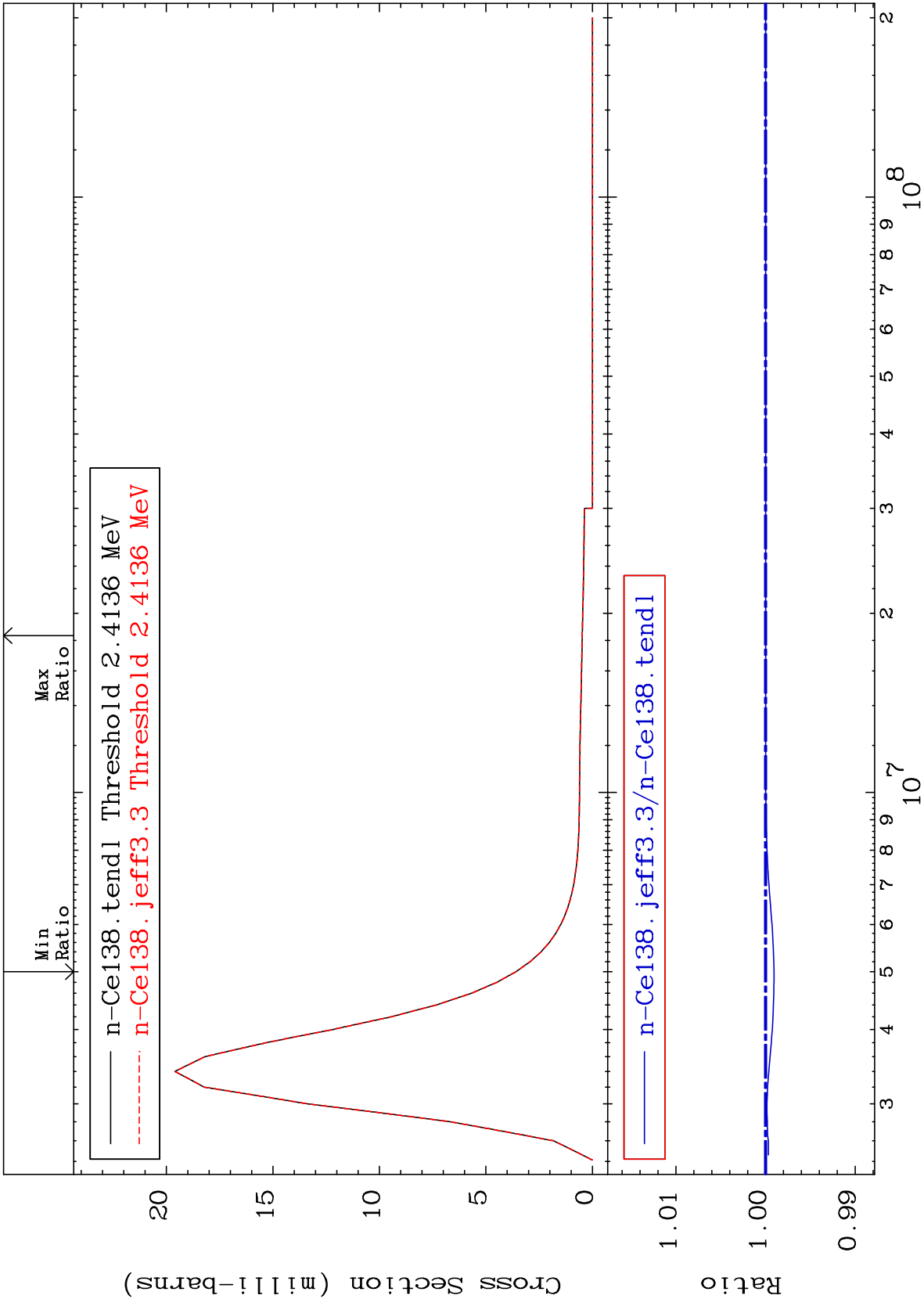
MAT 5831

MT= 63 (n,n') Level

58-Ce-138

Cross Section

-0.094 To 0.000 %



32

Incident Energy (eV)

58-Ce-138

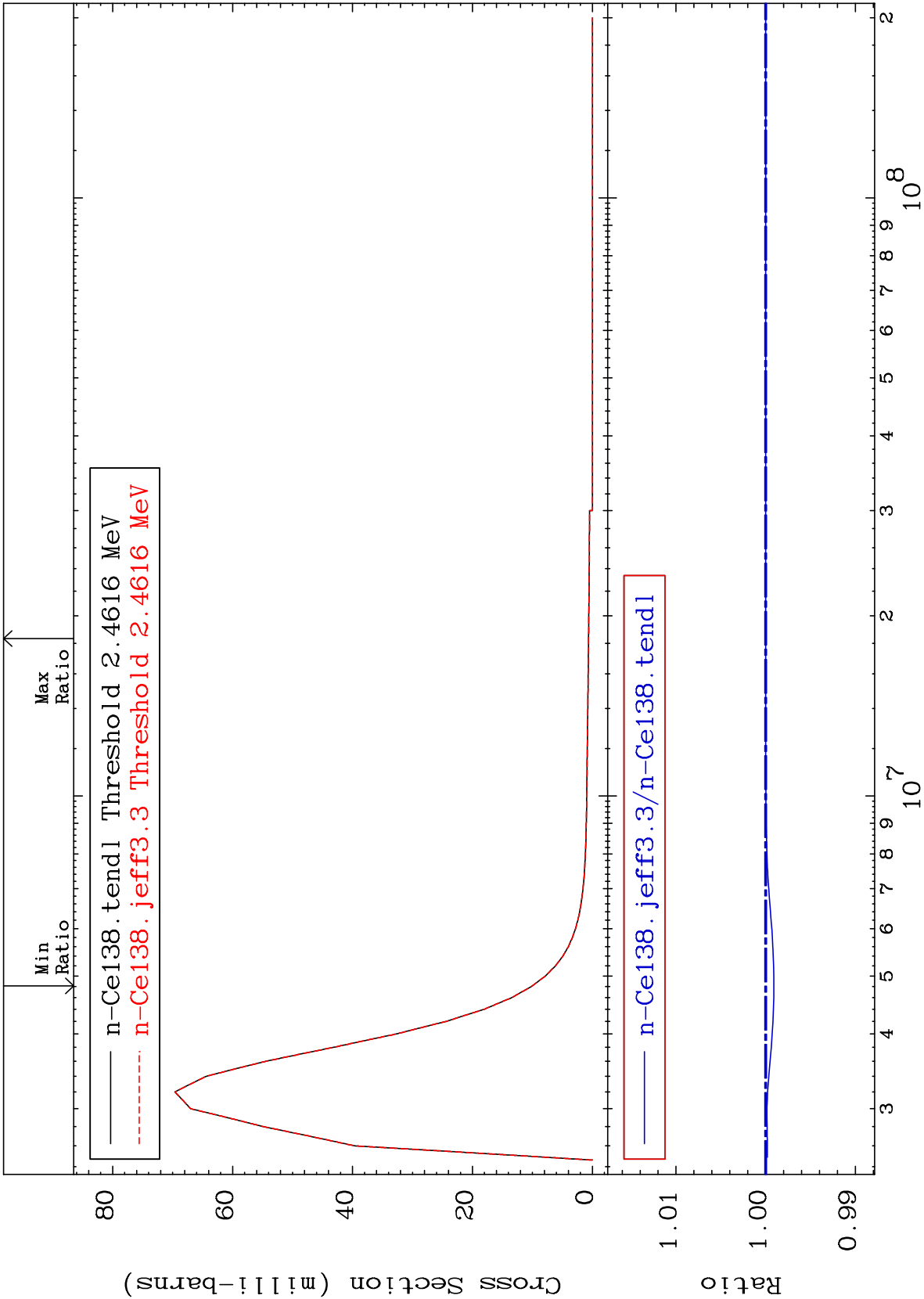
MAT 5831

MT= 64 (n,n') Level

58-Ce-138

-0.091 To 0.000 %

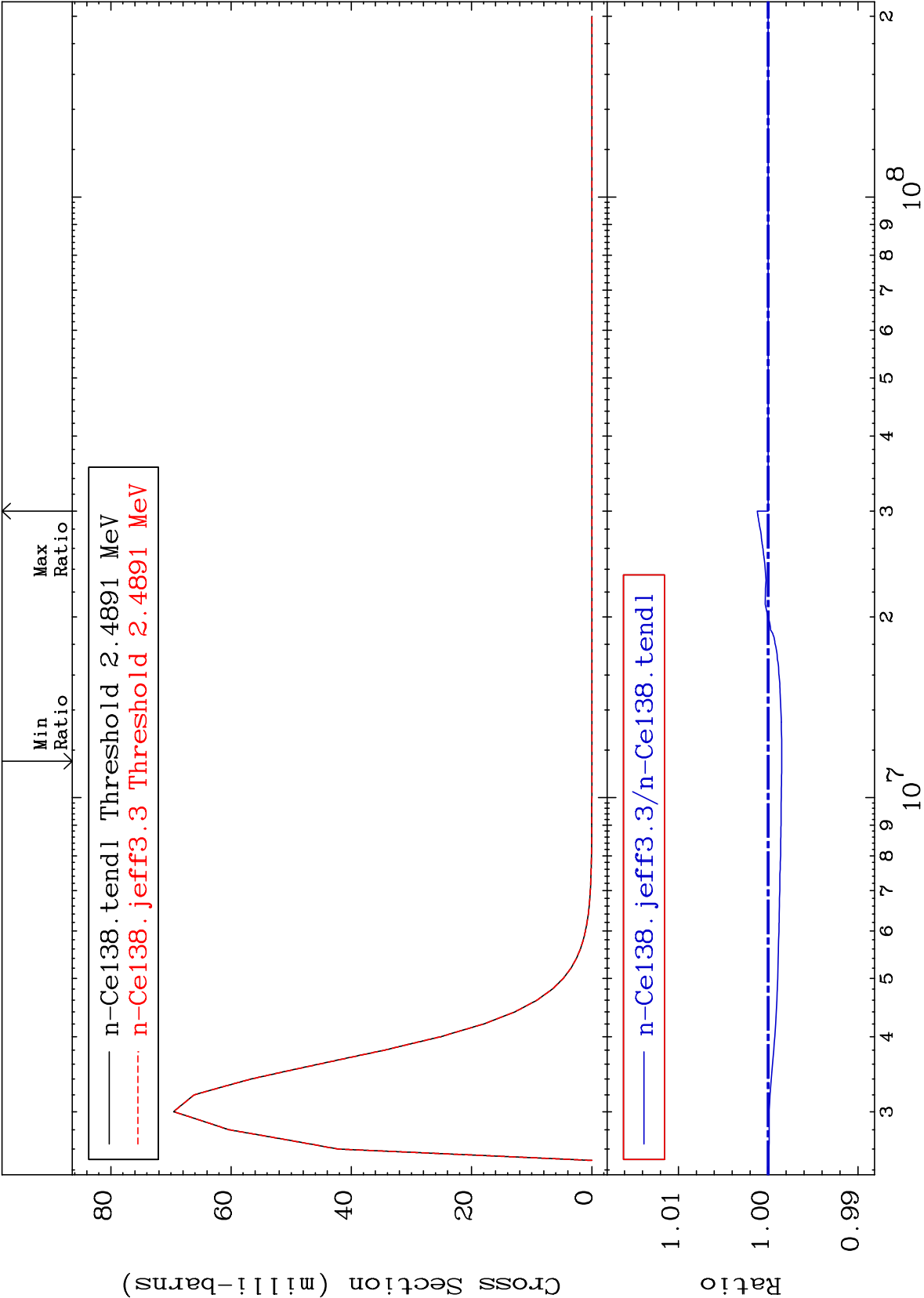
Cross Section



33

Incident Energy (eV)

58-Ce-138



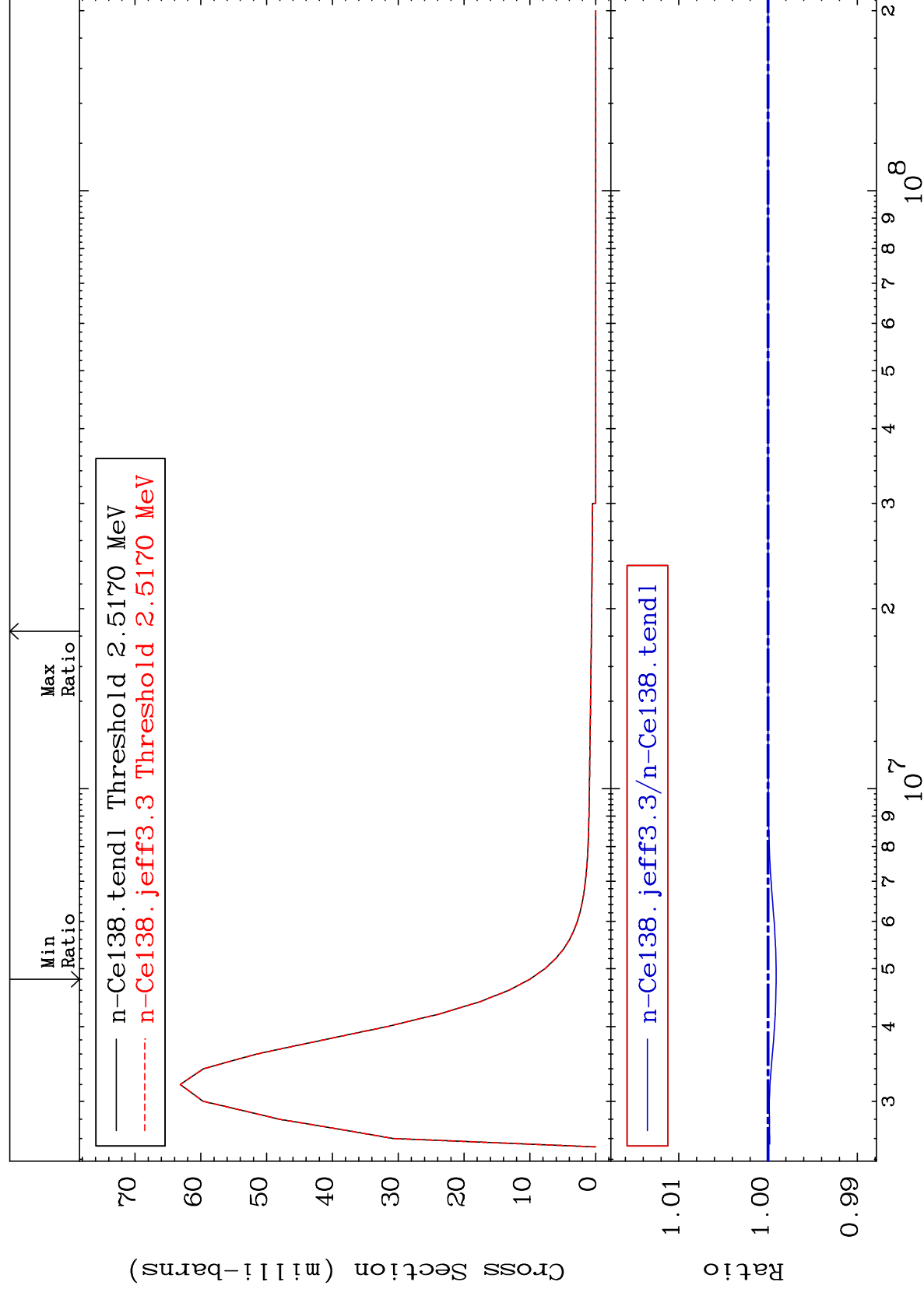
MAT 5831

MT= 66 (n, n') Level

58-Ce-138

-0.091 To 0.000 %

Cross Section



35

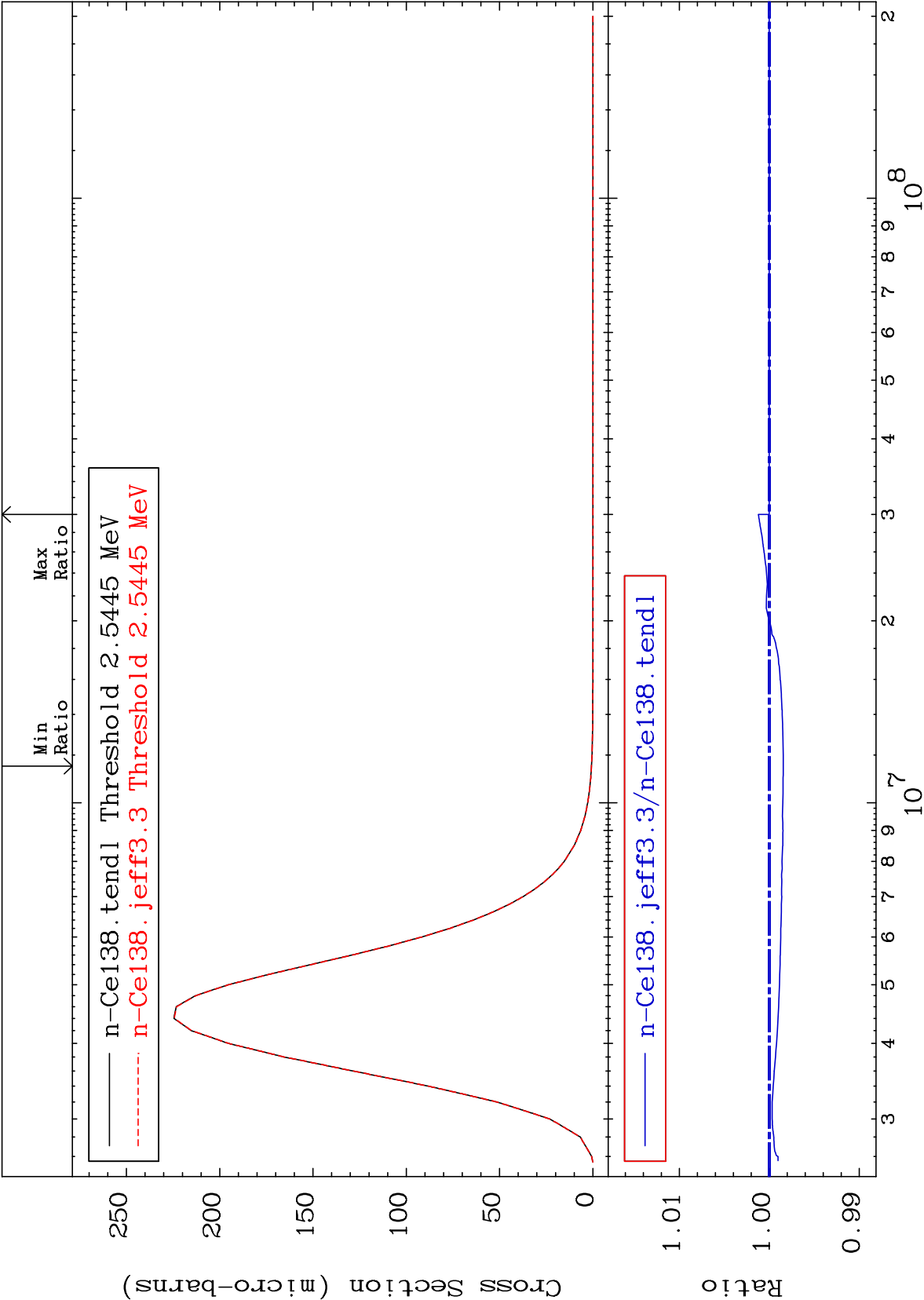
Incident Energy (eV)

58-Ce-138

MAT 5831

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

58-Ce-138
-0.156 To 0.122 %

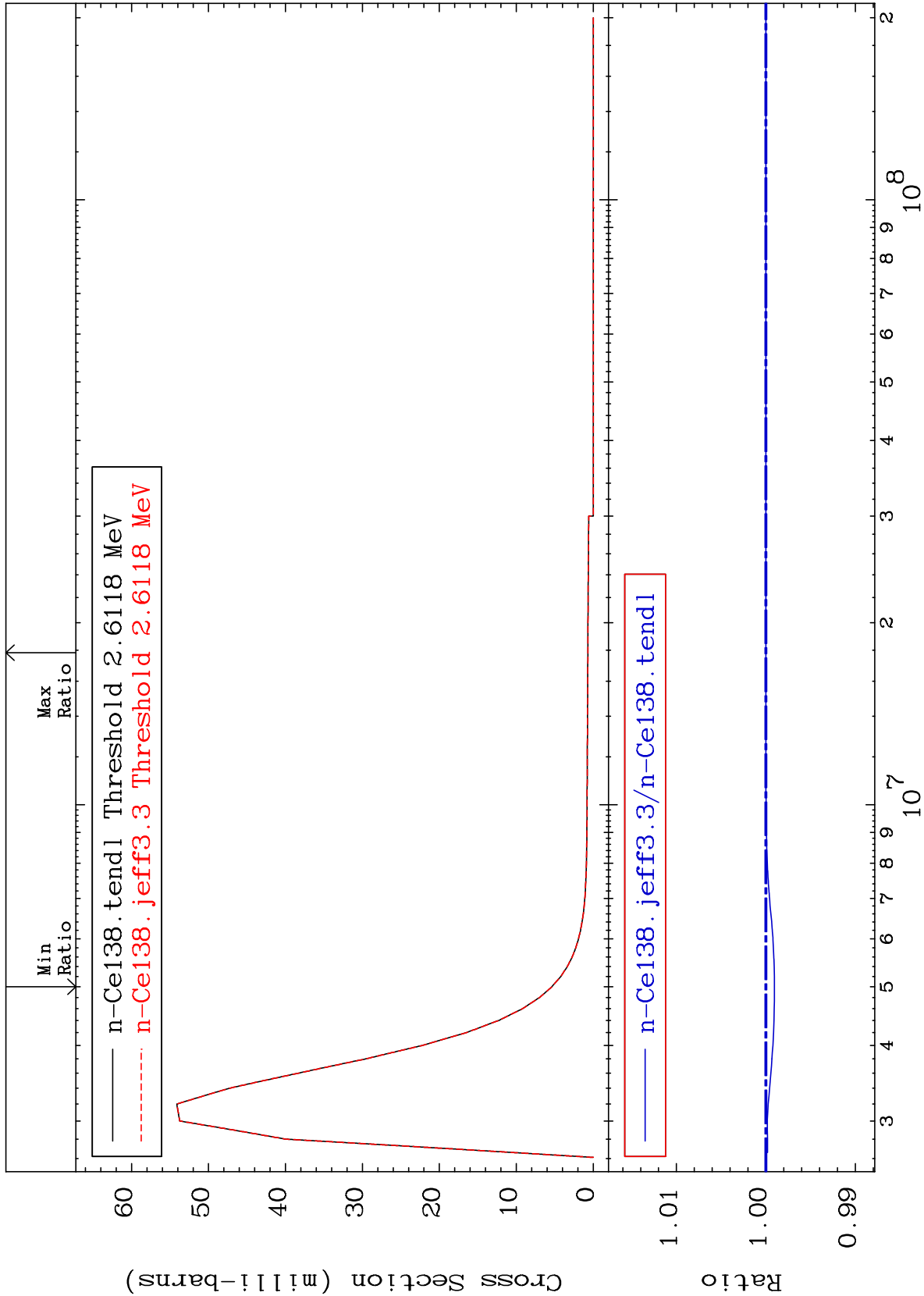


MAT 5831

MT= 68 (n,n') Level

58-Ce-138

Cross Section



37

Incident Energy (eV)

58-Ce-138

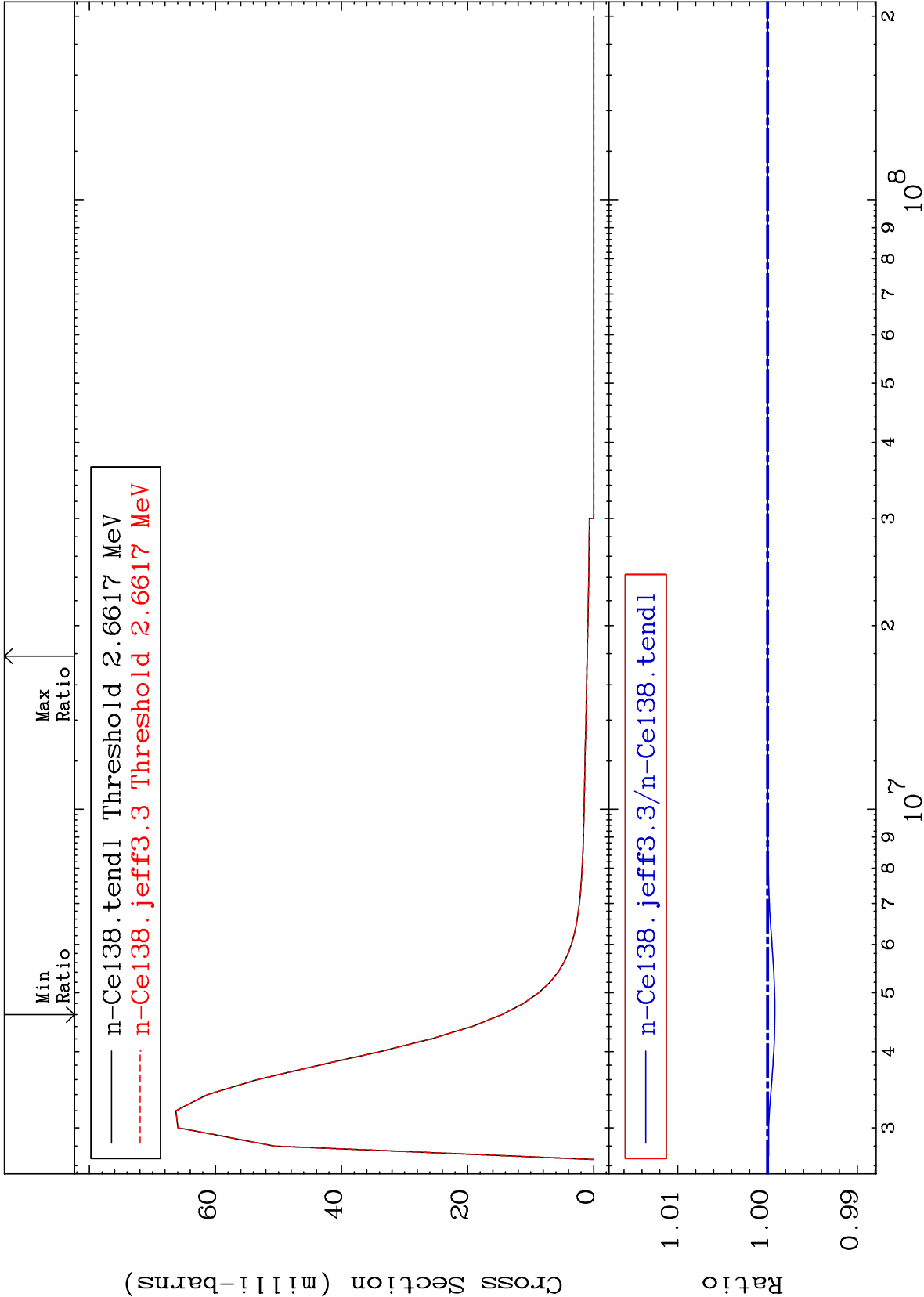
MAT 5831

MT= 69 (n,n') Level

58-Ce-138

-0.082 To 0.000 %

Cross Section

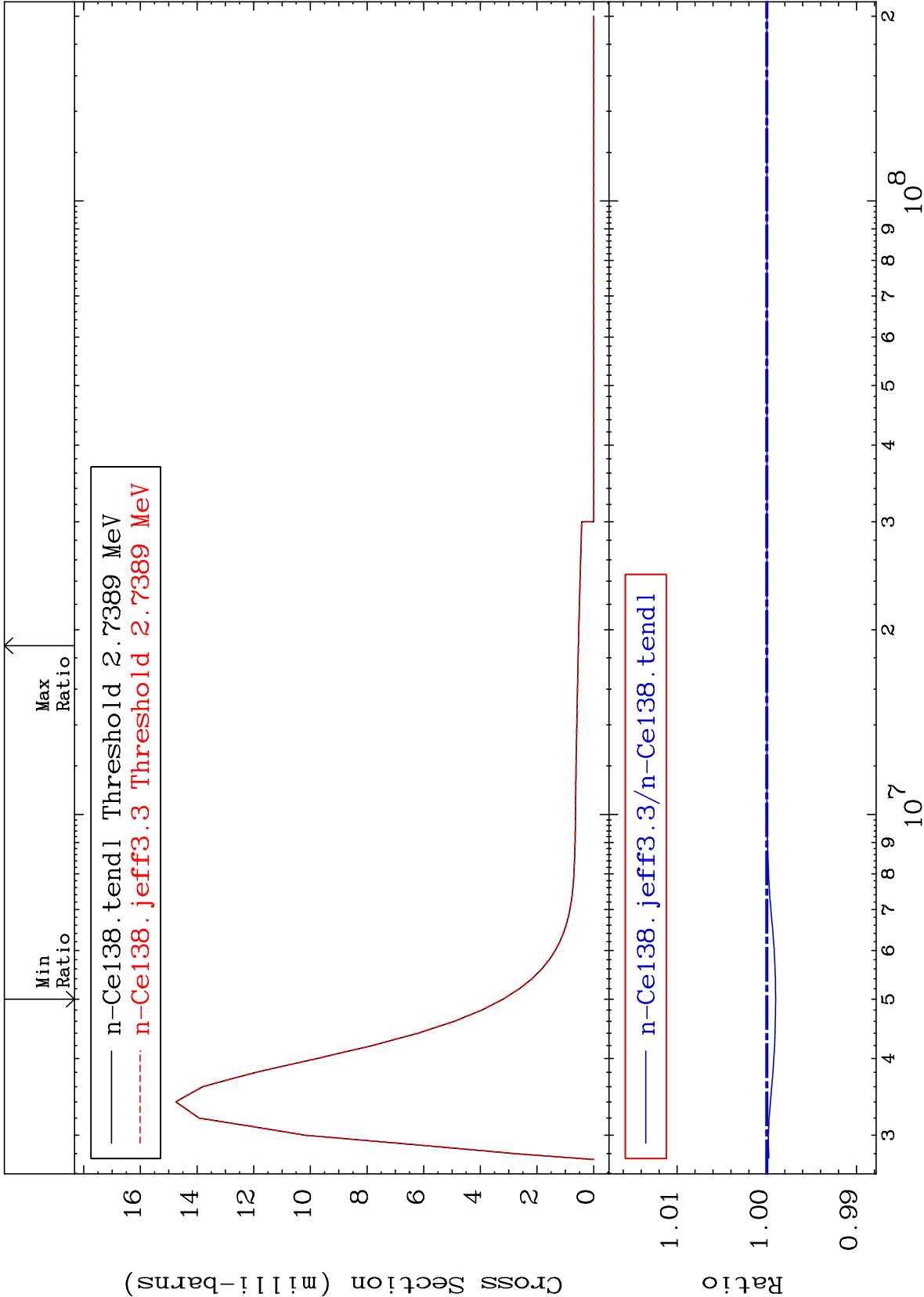


MAT 5831

MT= 70 (n,n') Level

58-Ce-138

Cross Section
-0.098 To 0.000 %



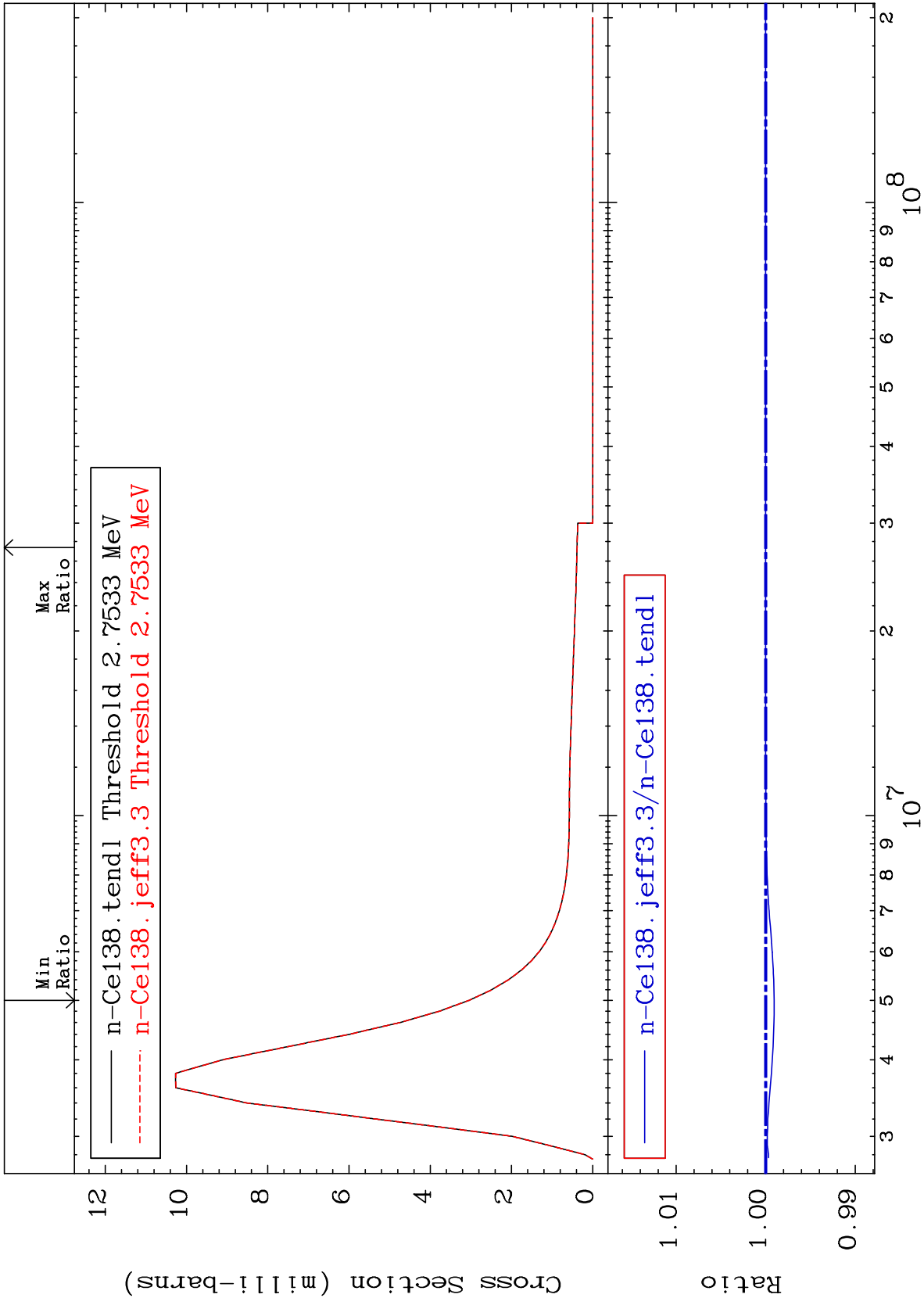
MAT 5831

MT= 71 (n,n') Level

58-Ce-138

-0.094 To 0.000 %

Cross Section



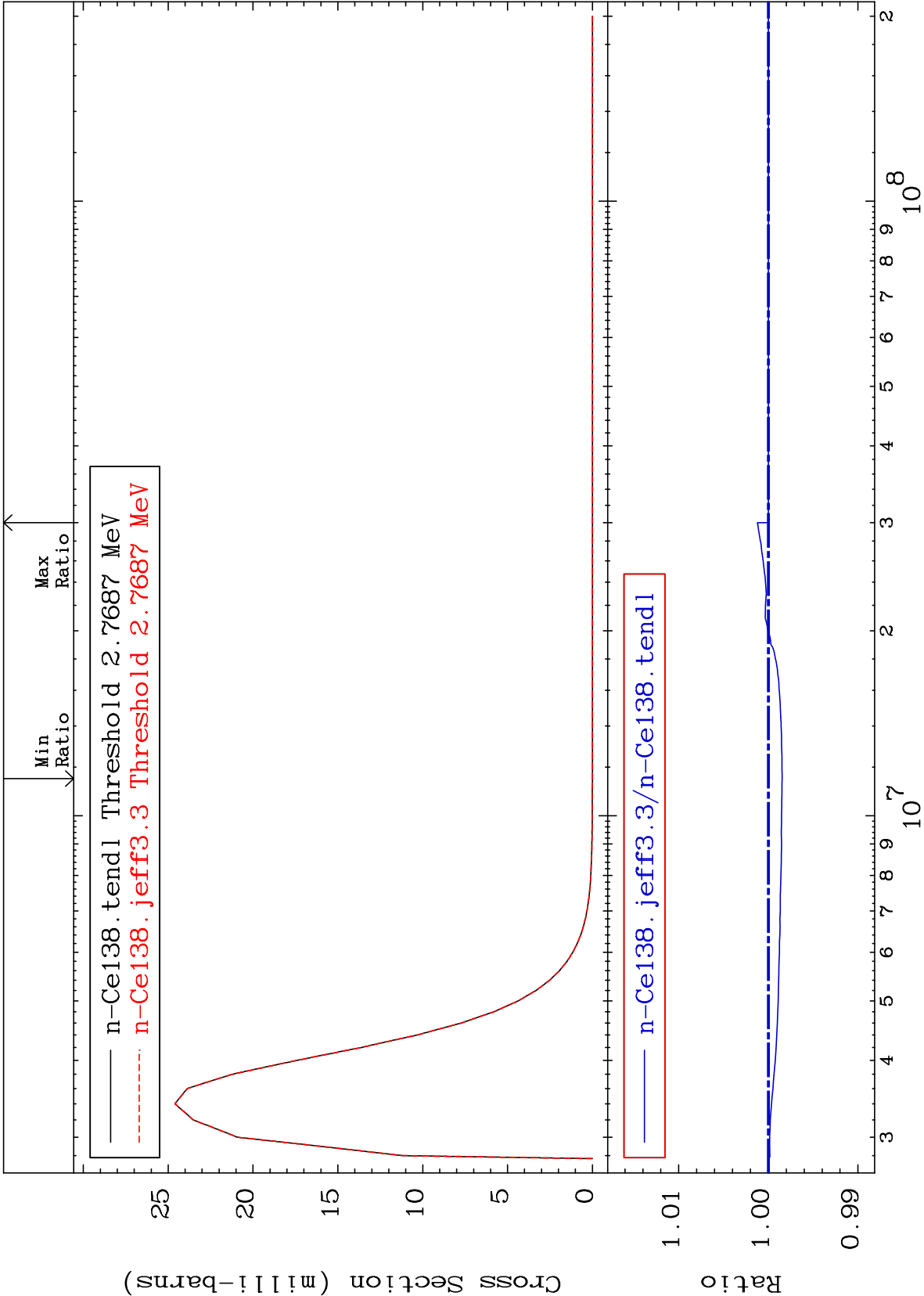
MAT 5831

MT= 72 (n,n') Level

58-Ce-138

-0.153 To 0.122 %

Cross Section



41

Incident Energy (eV)

58-Ce-138

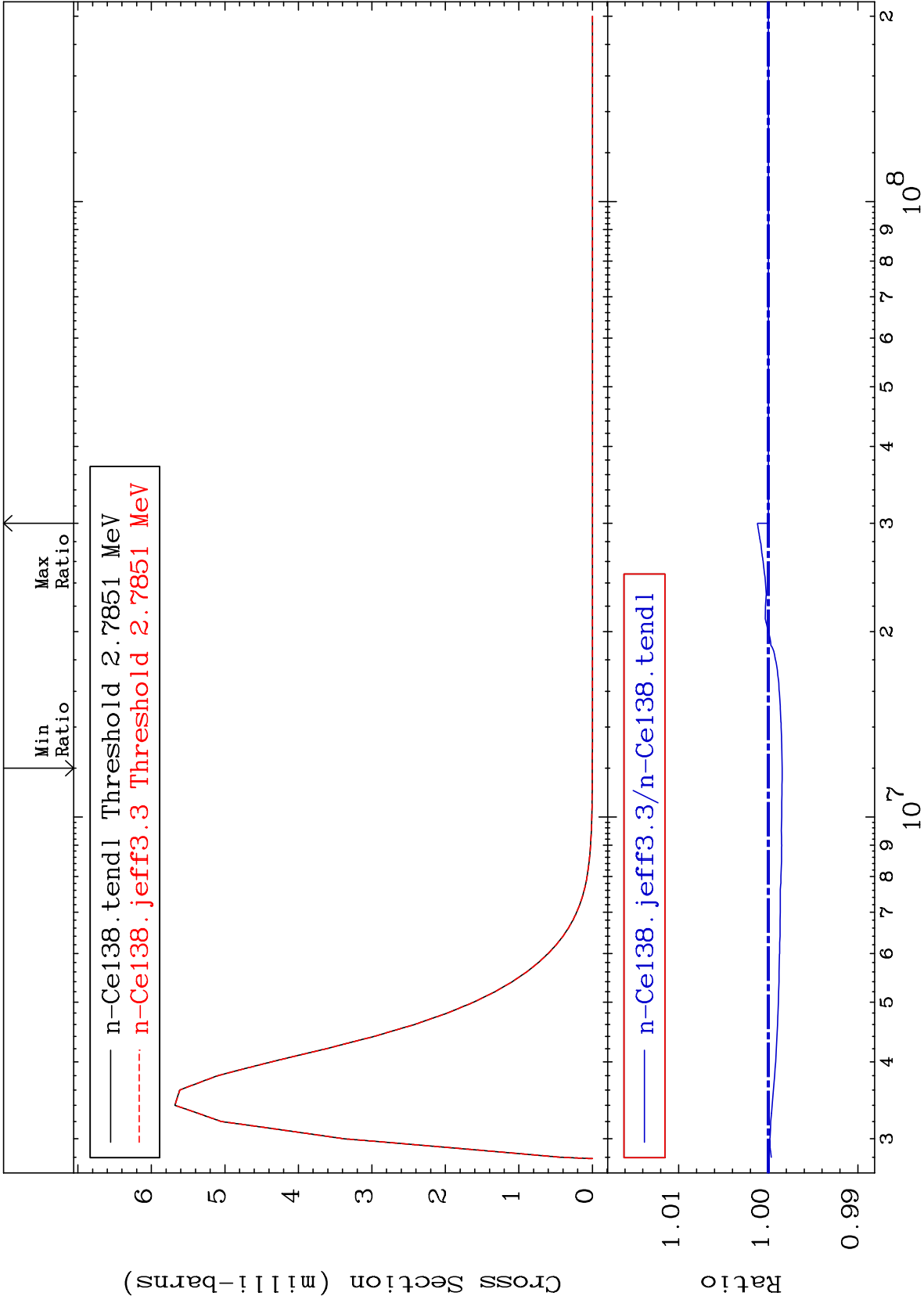
MAT 5831

MT= 73 (n,n') Level

58-Ce-138

-0.154 To 0.122 %

Cross Section



42

Incident Energy (eV)

58-Ce-138

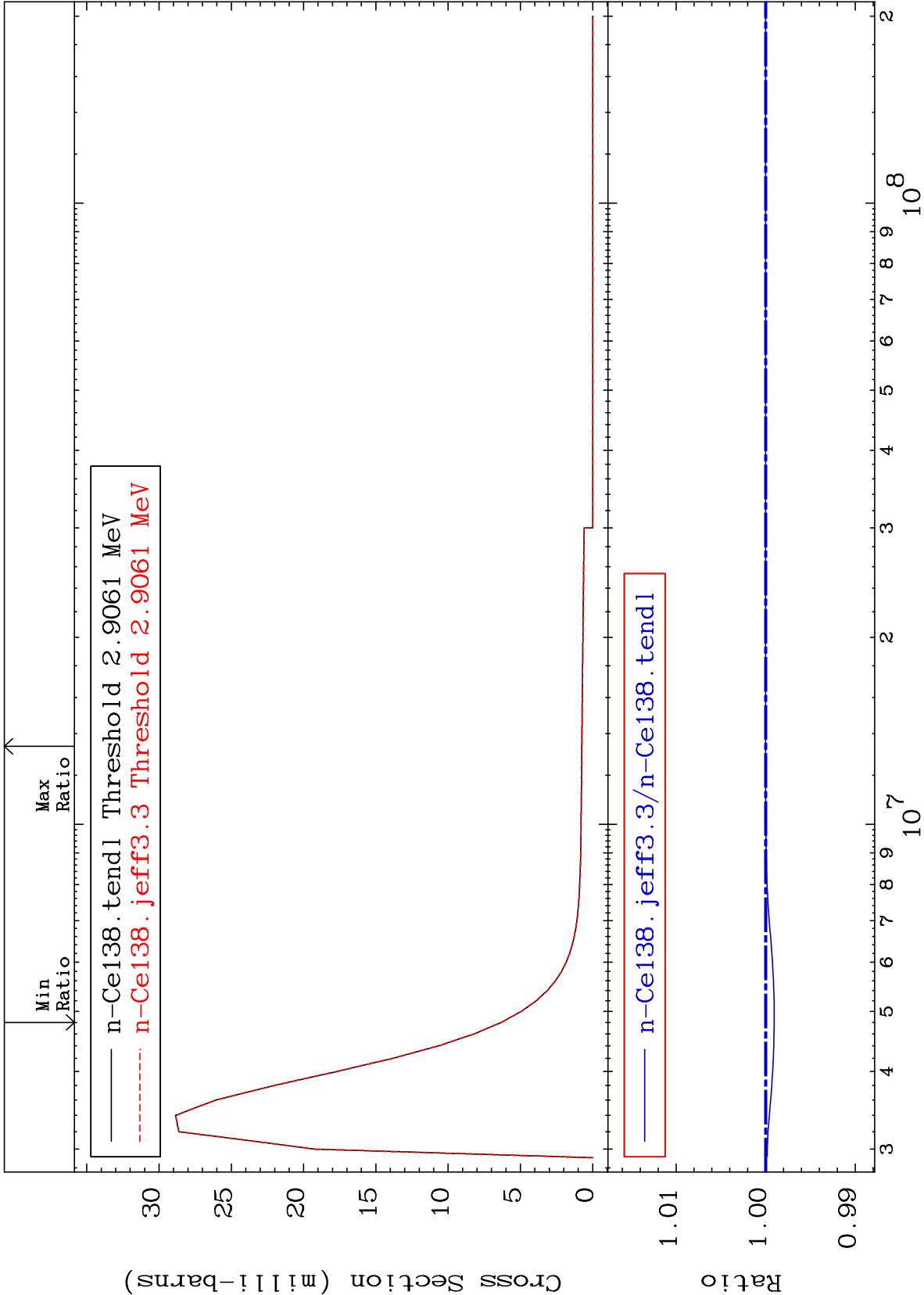
MAT 5831

MT= 74 (n,n') Level

58-Ce-138

Cross Section

-0.095 To 0.000 %



43

Incident Energy (eV)

58-Ce-138

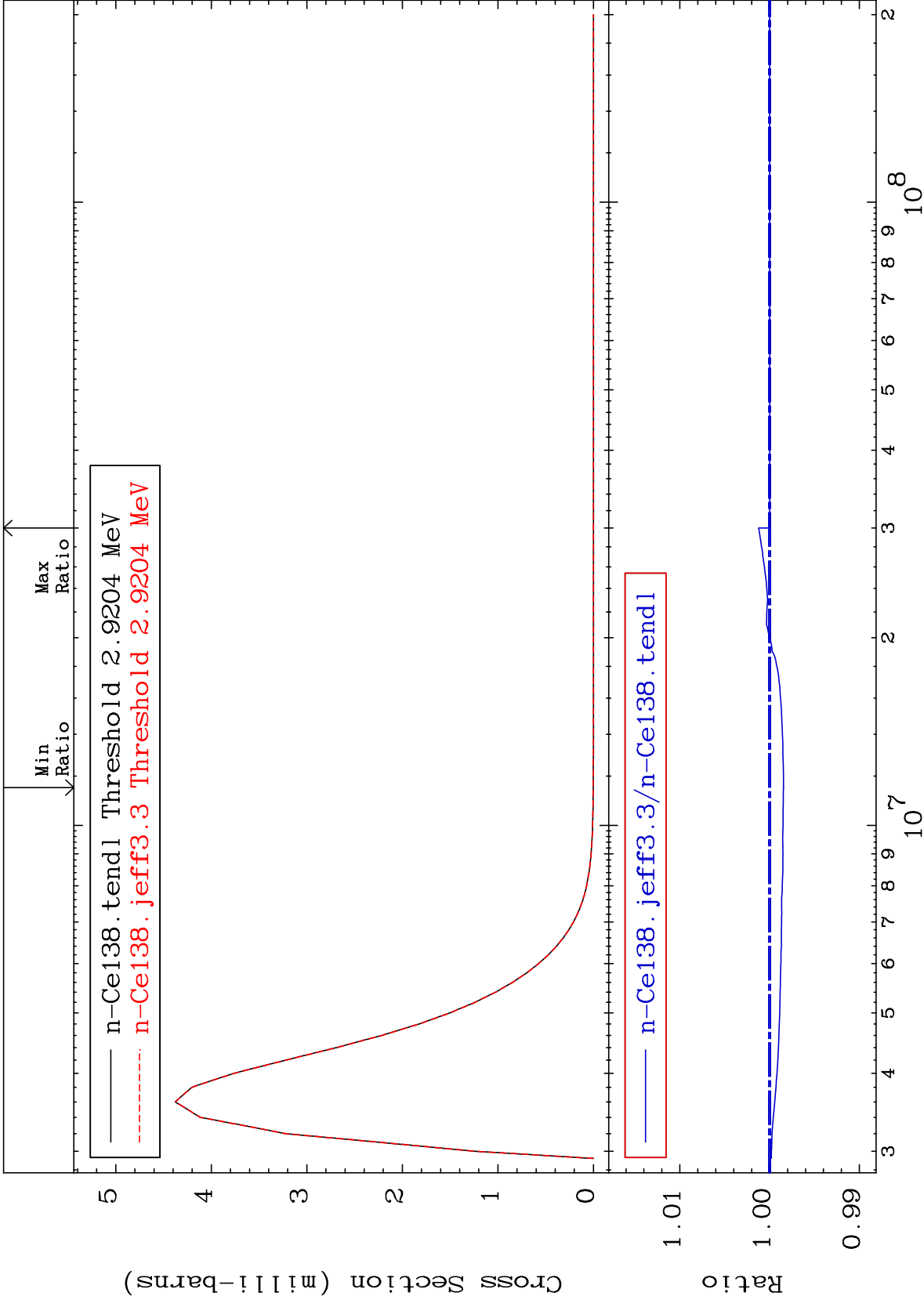
MAT 5831

MT= 75 (n,n') Level

58-Ce-138

-0.154 To 0.122 %

Cross Section



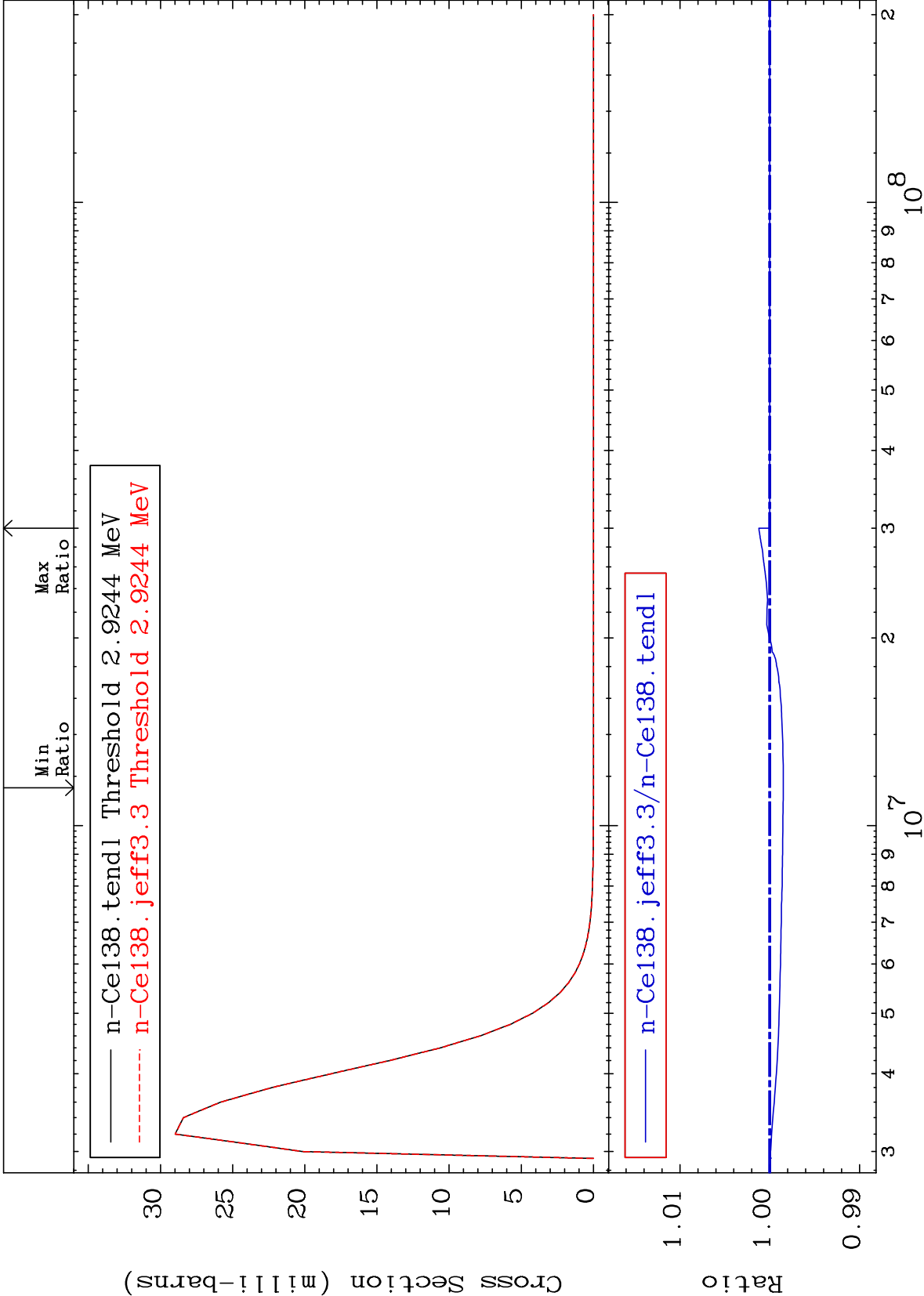
MAT 5831

MT= 76 (n,n') Level

58-Ce-138

-0.152 To 0.122 %

Cross Section



45

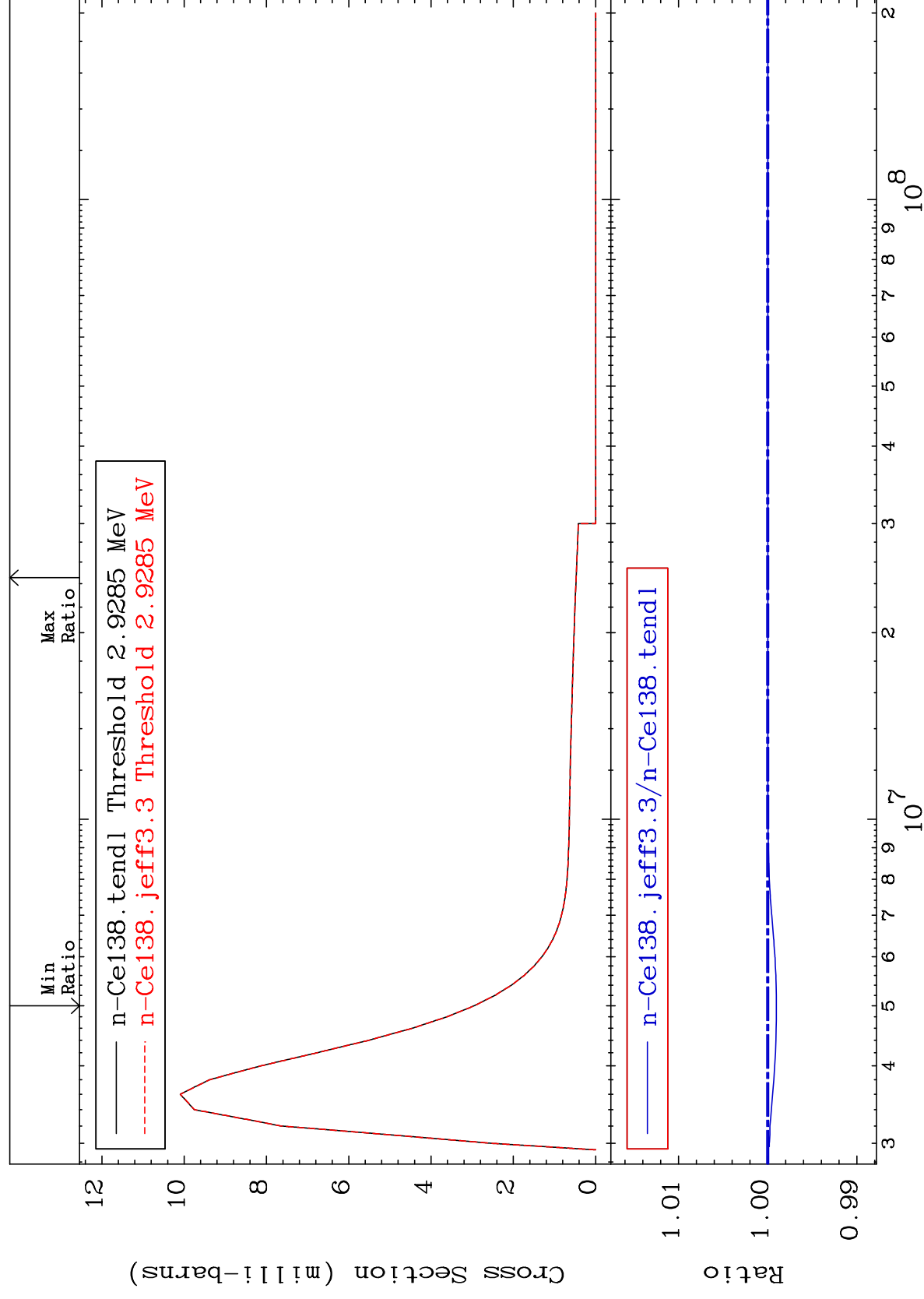
Incident Energy (eV)

58-Ce-138

MAT 5831

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

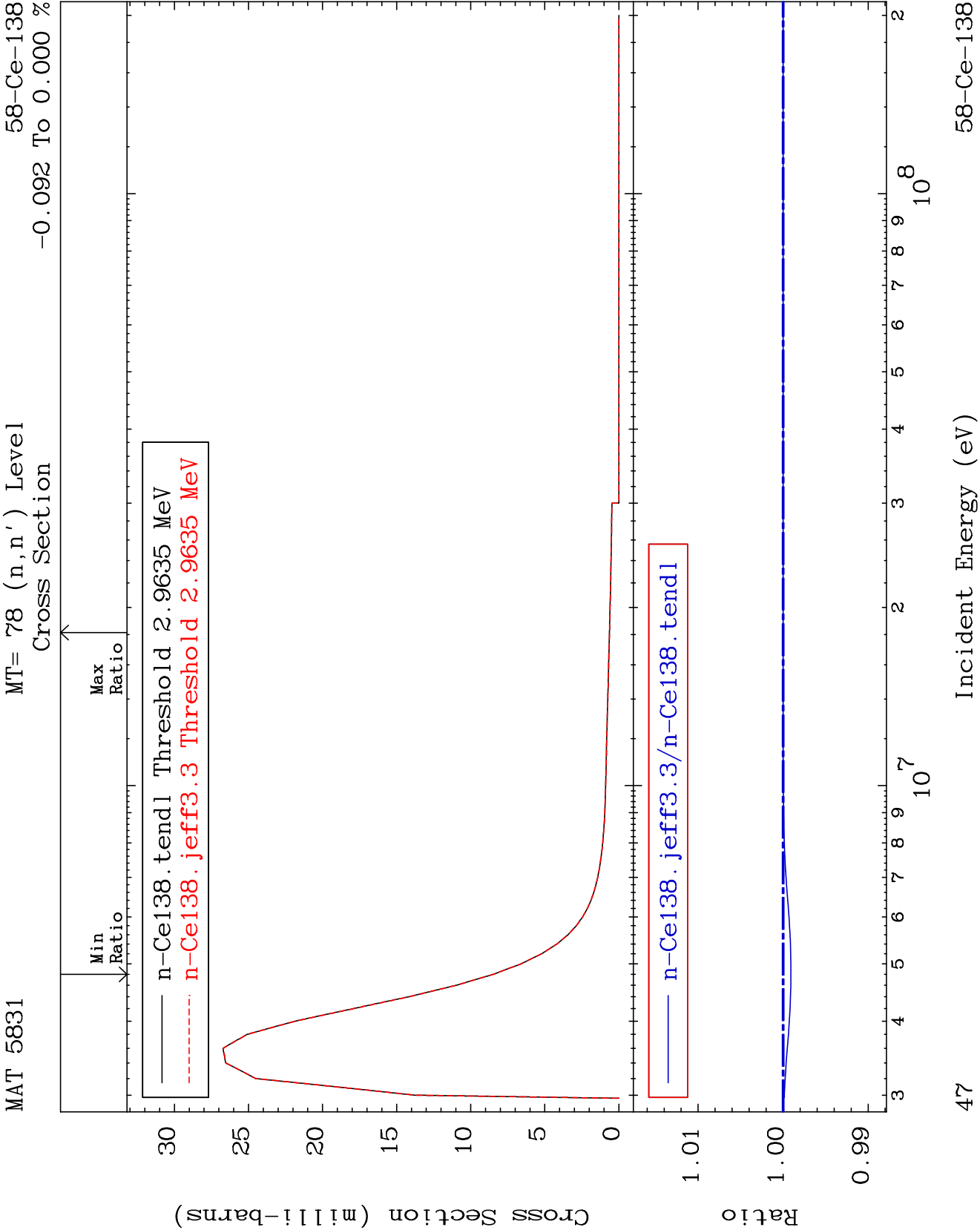
58-Ce-138
-0.097 To 0.000 %



46

Incident Energy (eV)

58-Ce-138



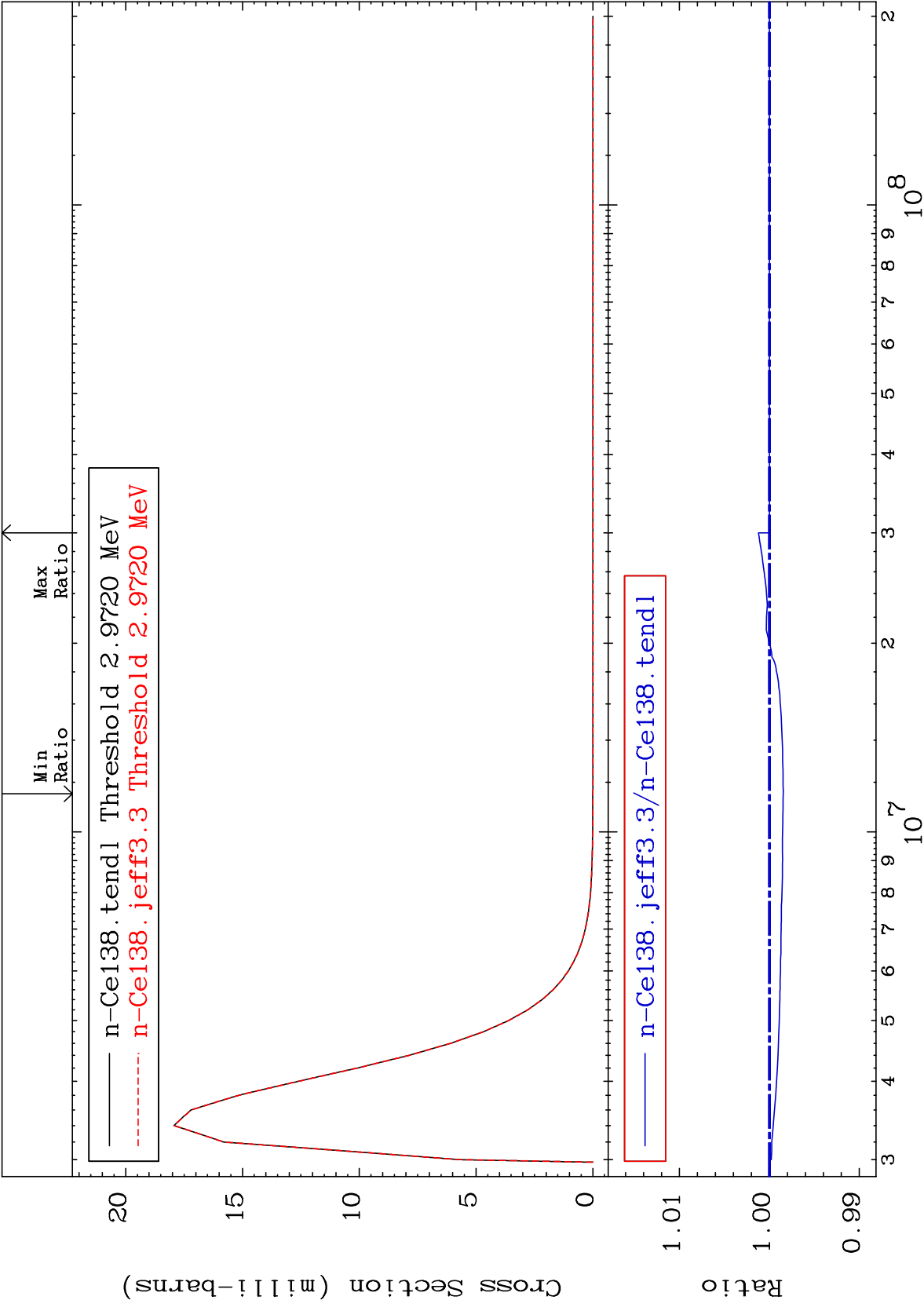
MAT 5831

MT= 79 (n,n') Level

58-Ce-138

-0.153 To 0.122 %

Cross Section



48

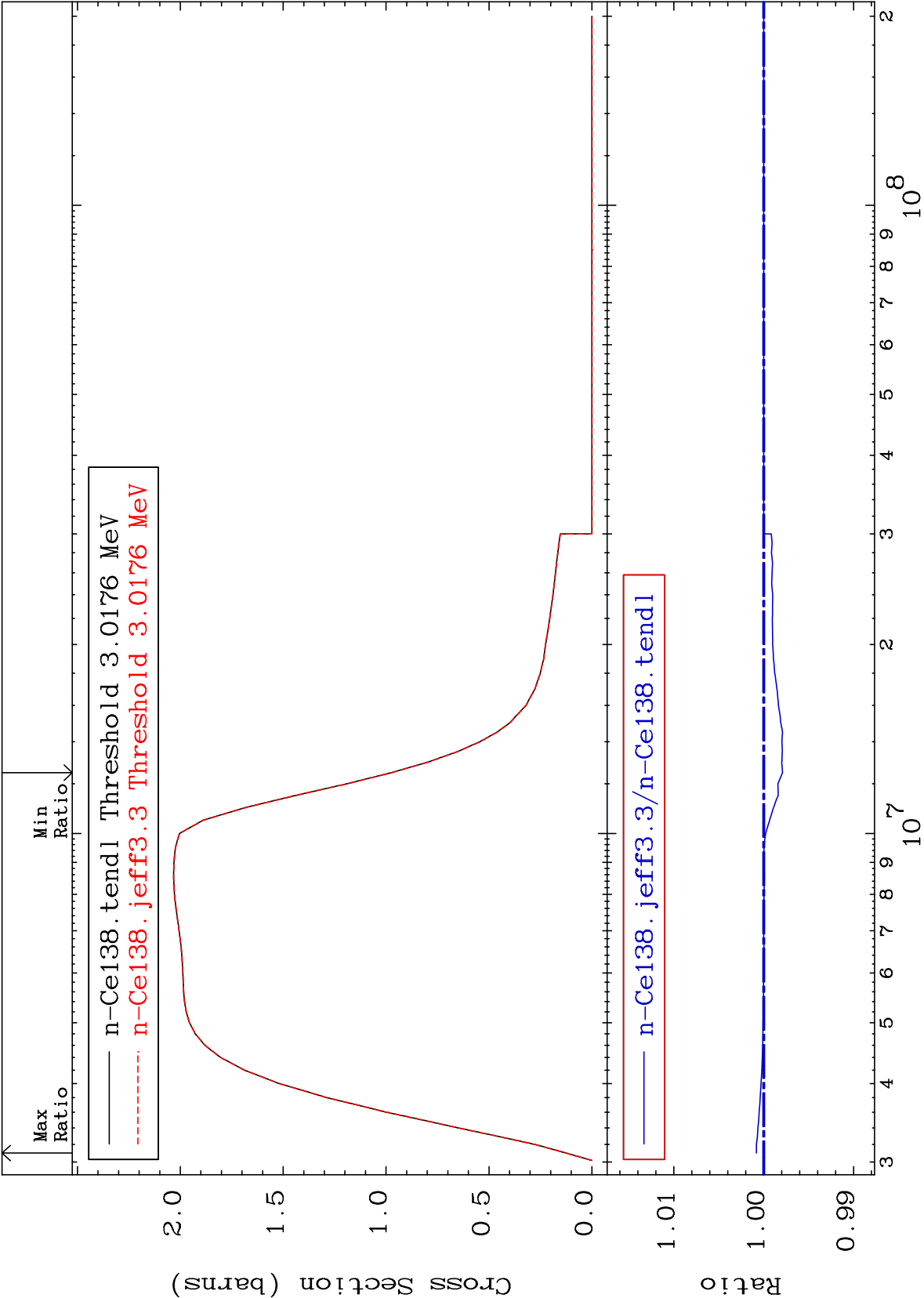
Incident Energy (eV)

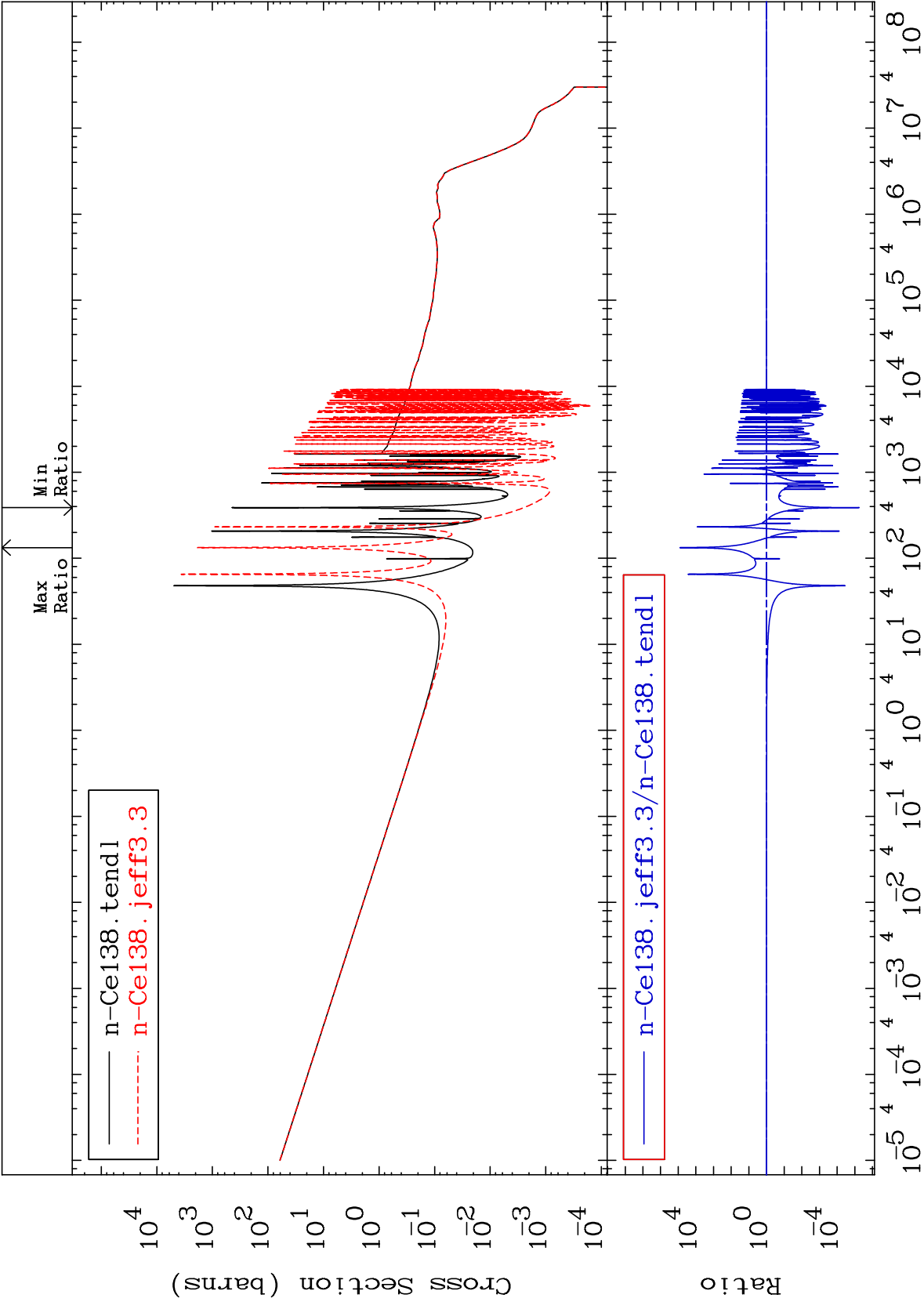
58-Ce-138

MAT 5831

(n,n') Continuum
Cross Section

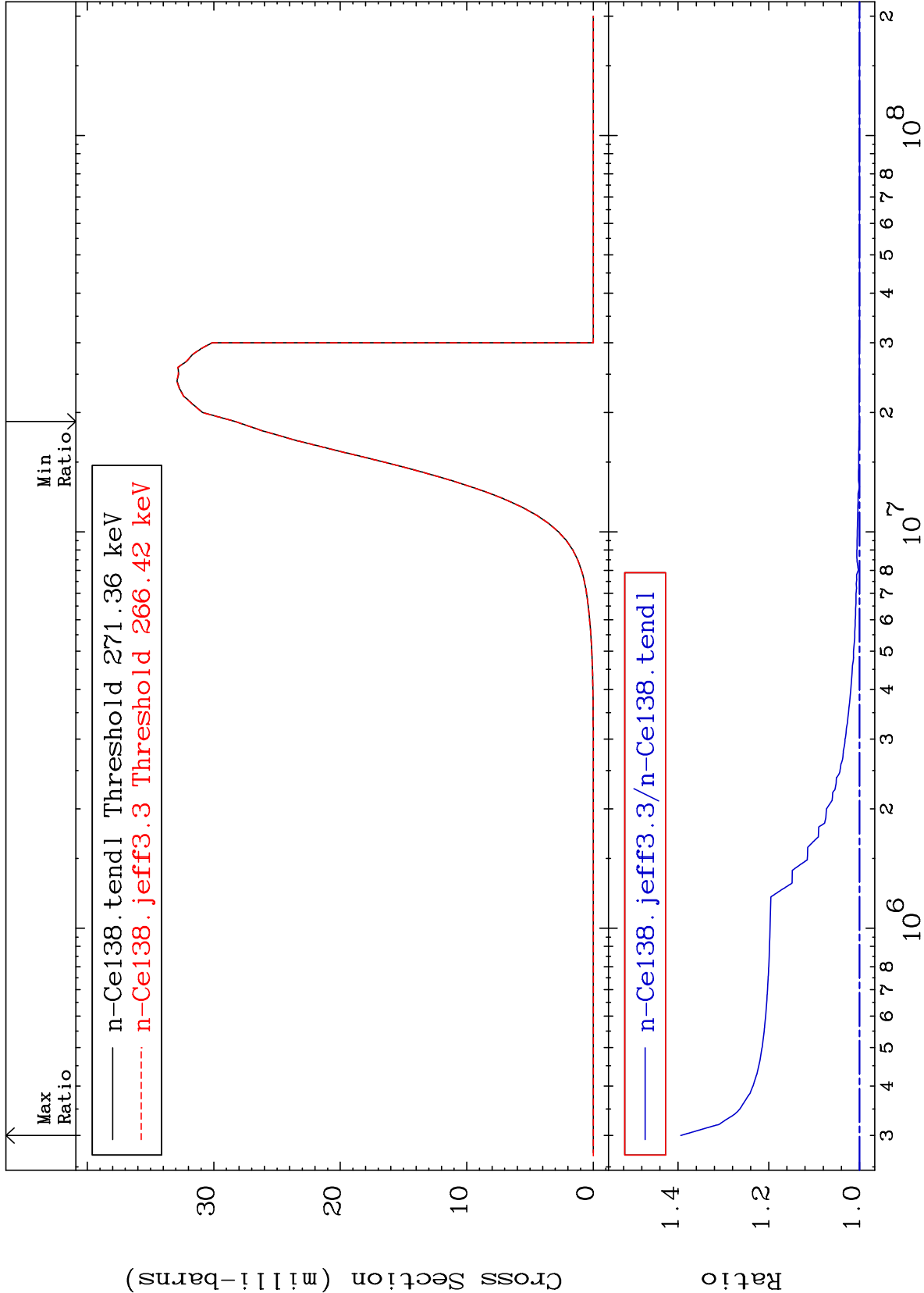
58-Ce-138
-0.210 To 0.081 %

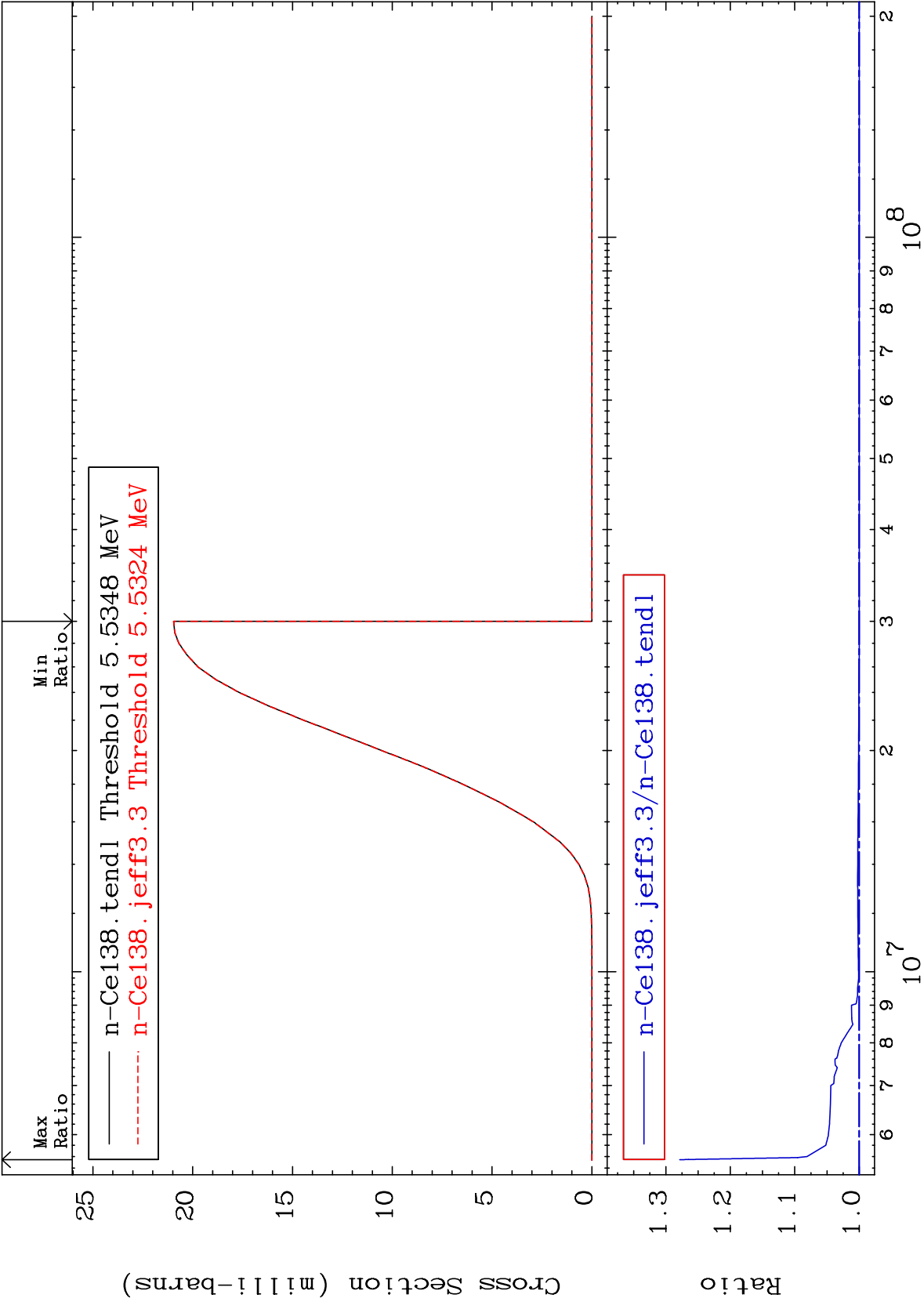


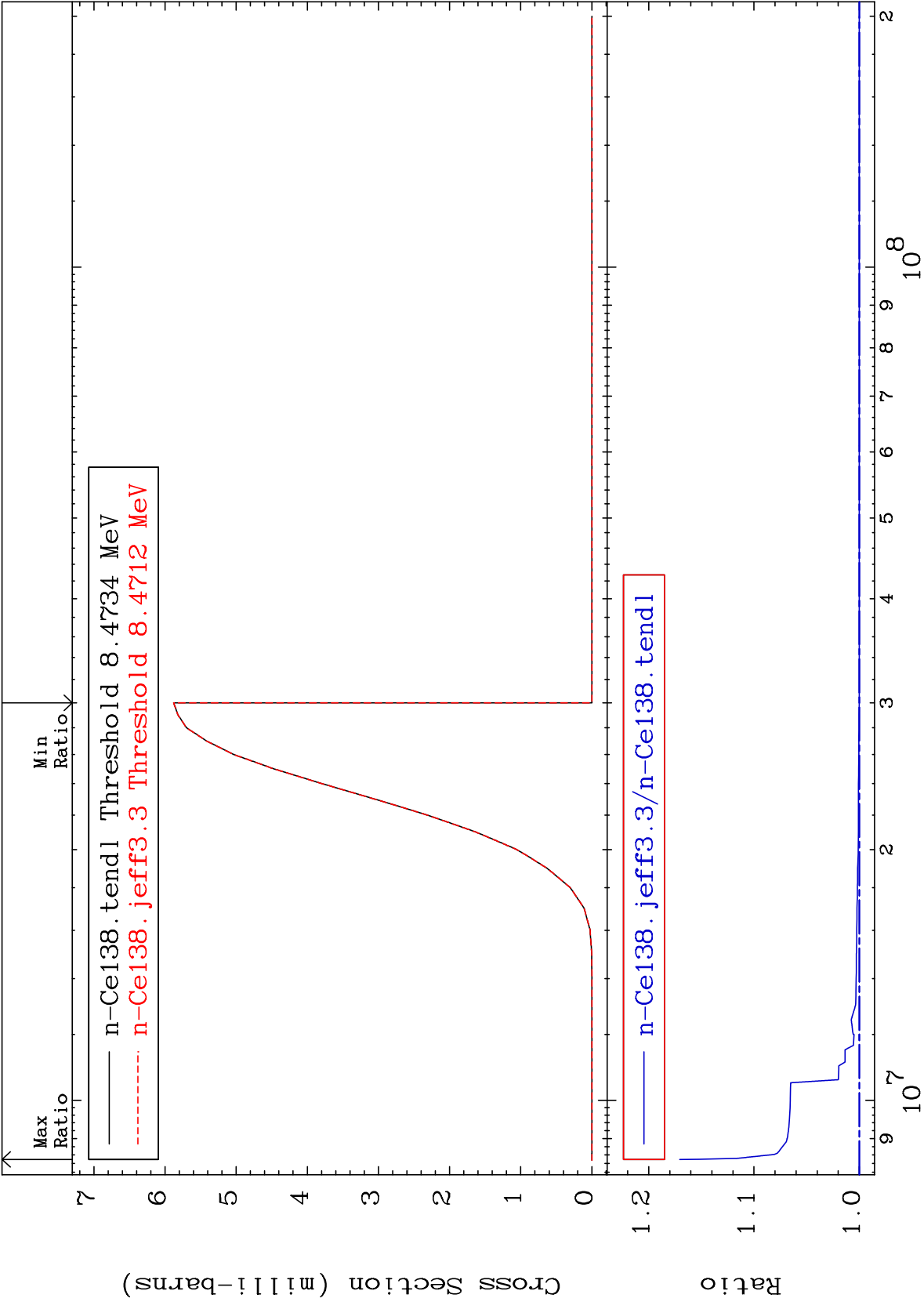


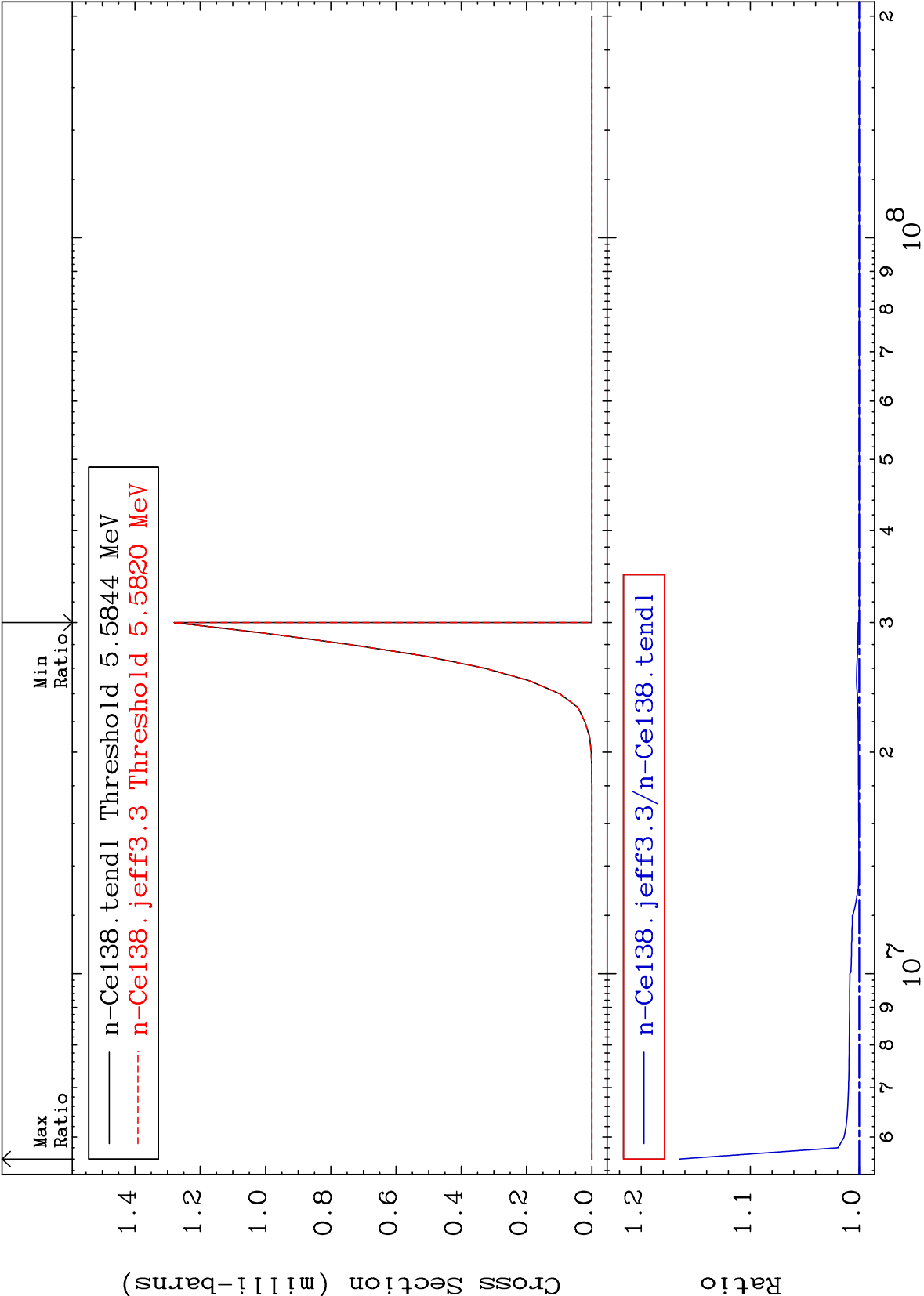
Cross Section

-0.006 To 39.41 %



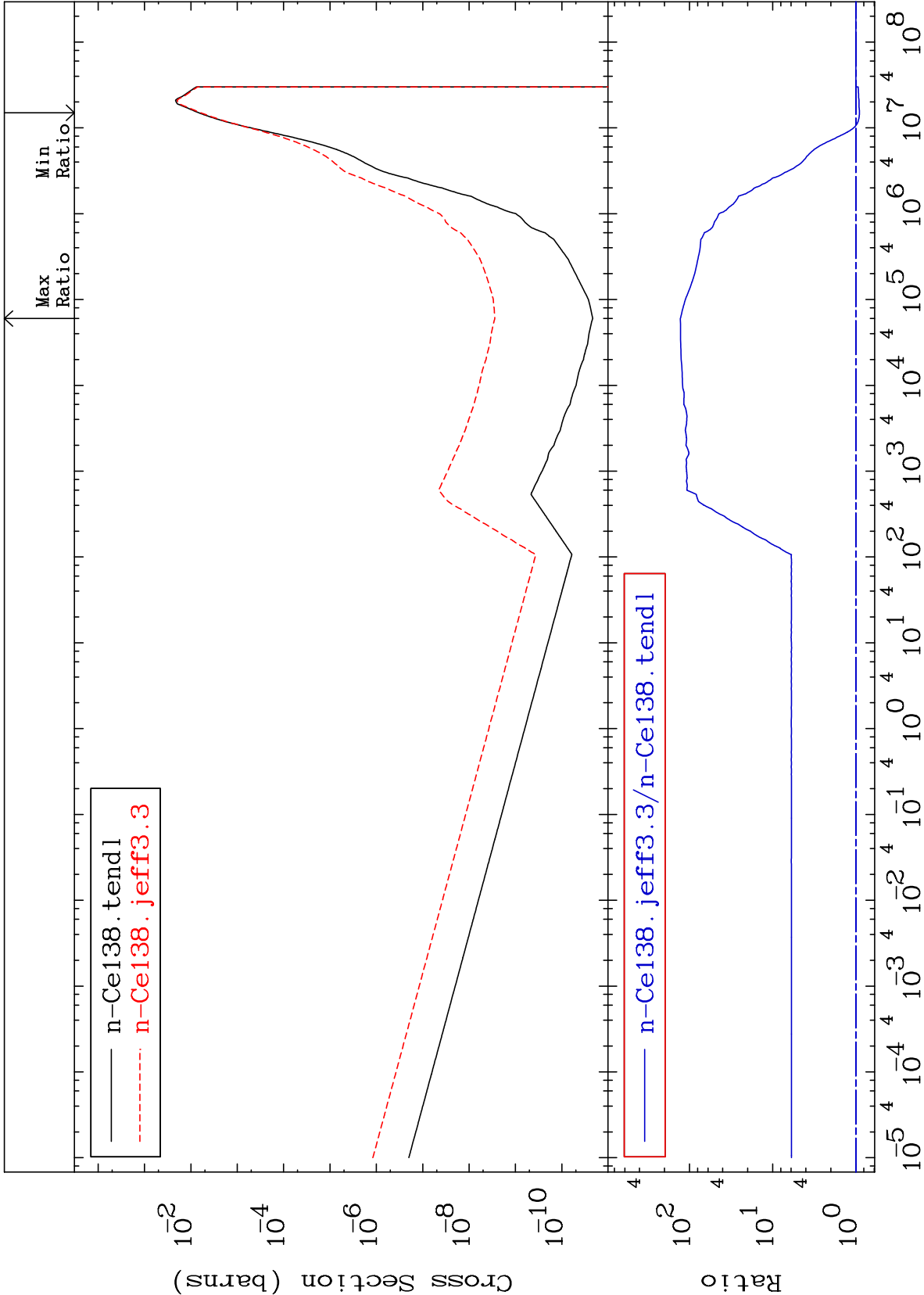






Cross Section

-9.474 To 9999. %

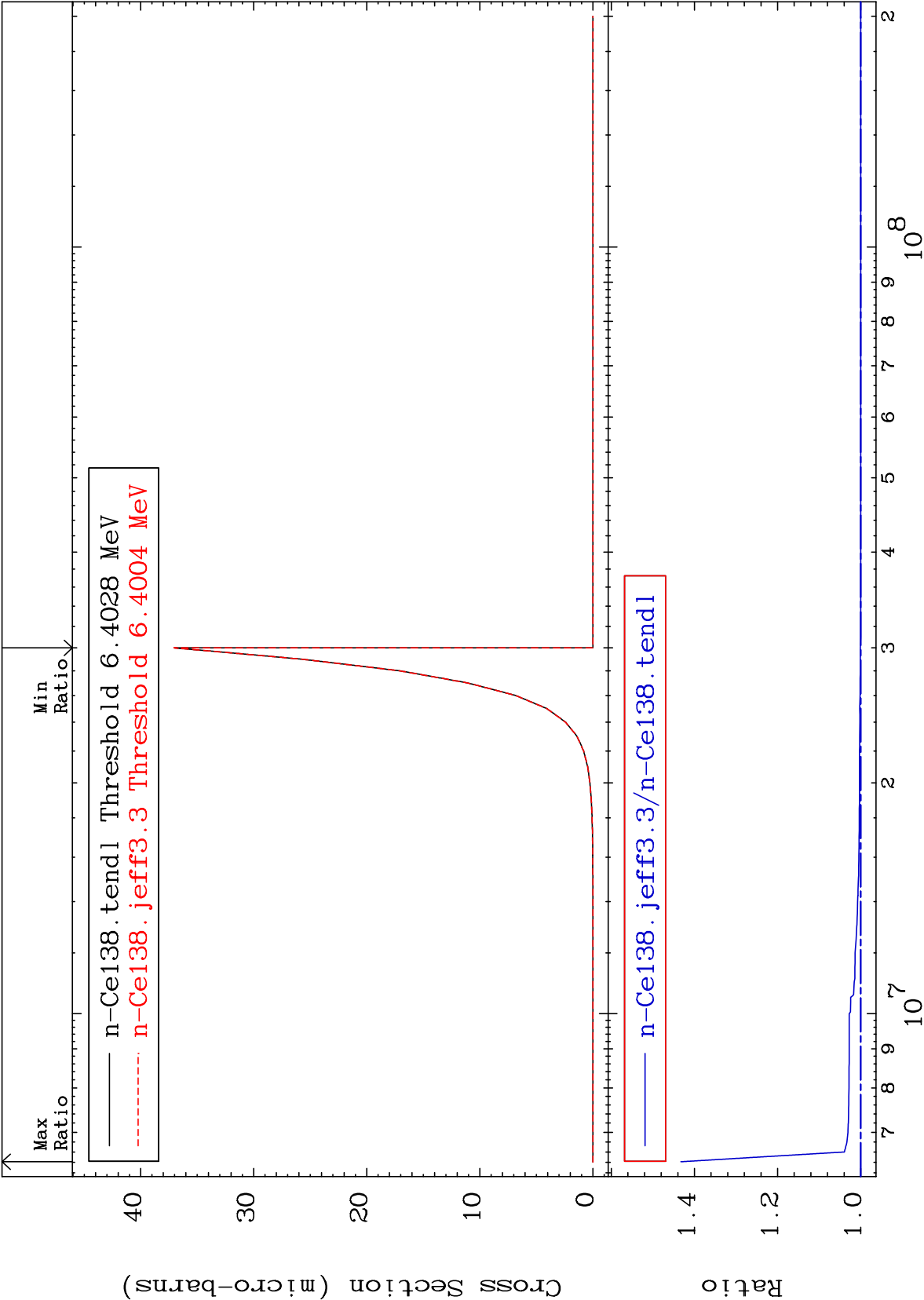


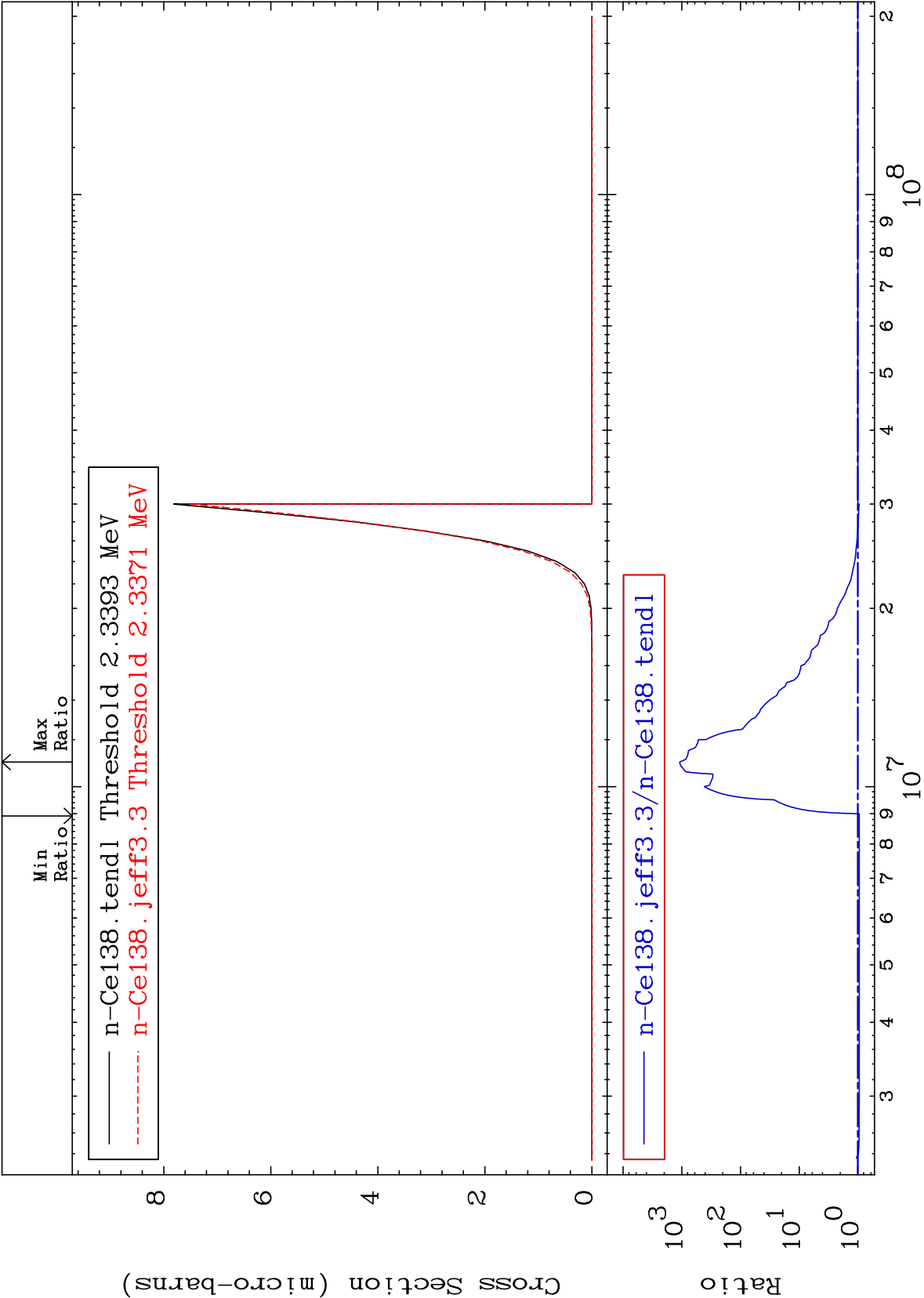
MAT 5831

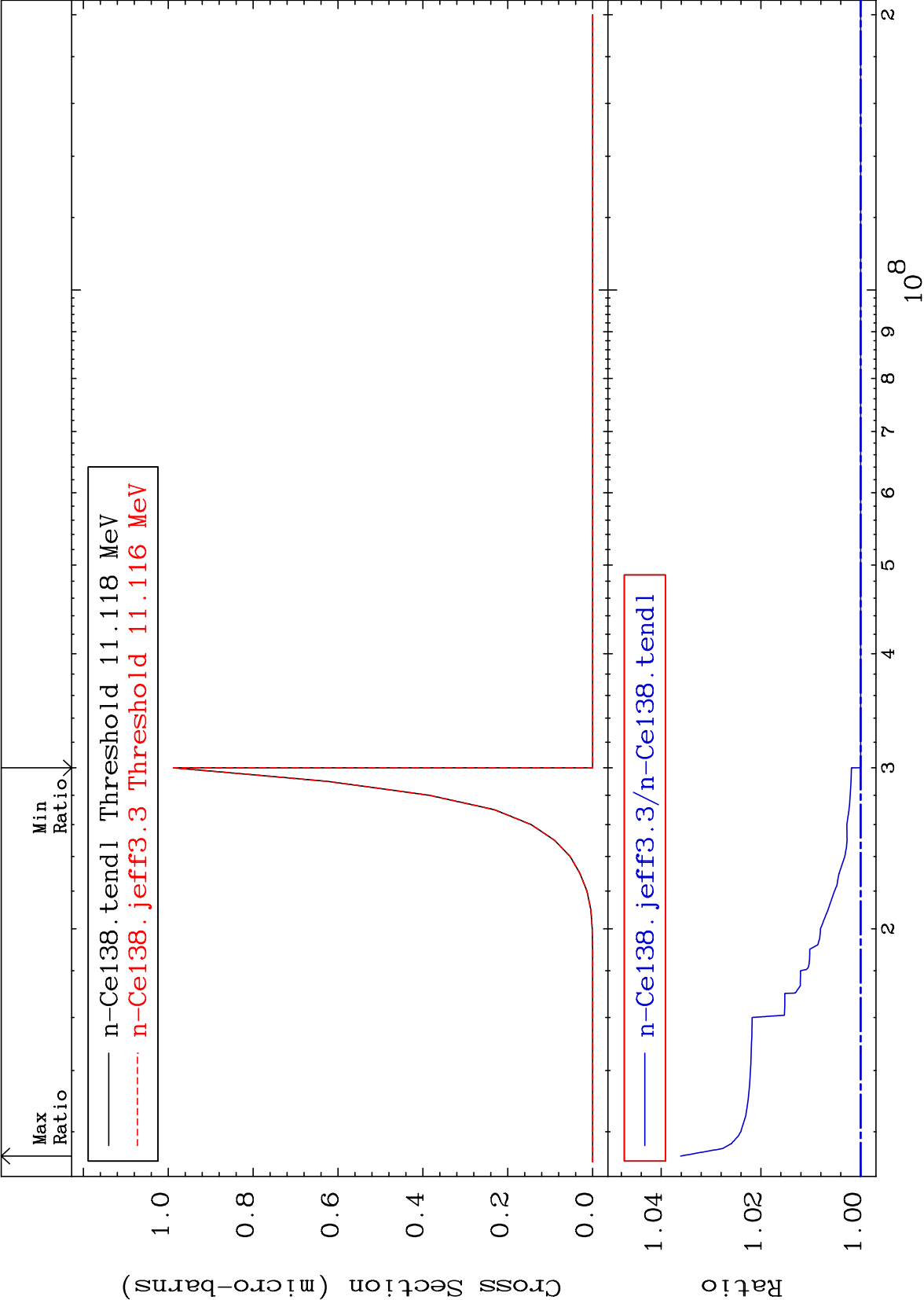
58-Ce-138

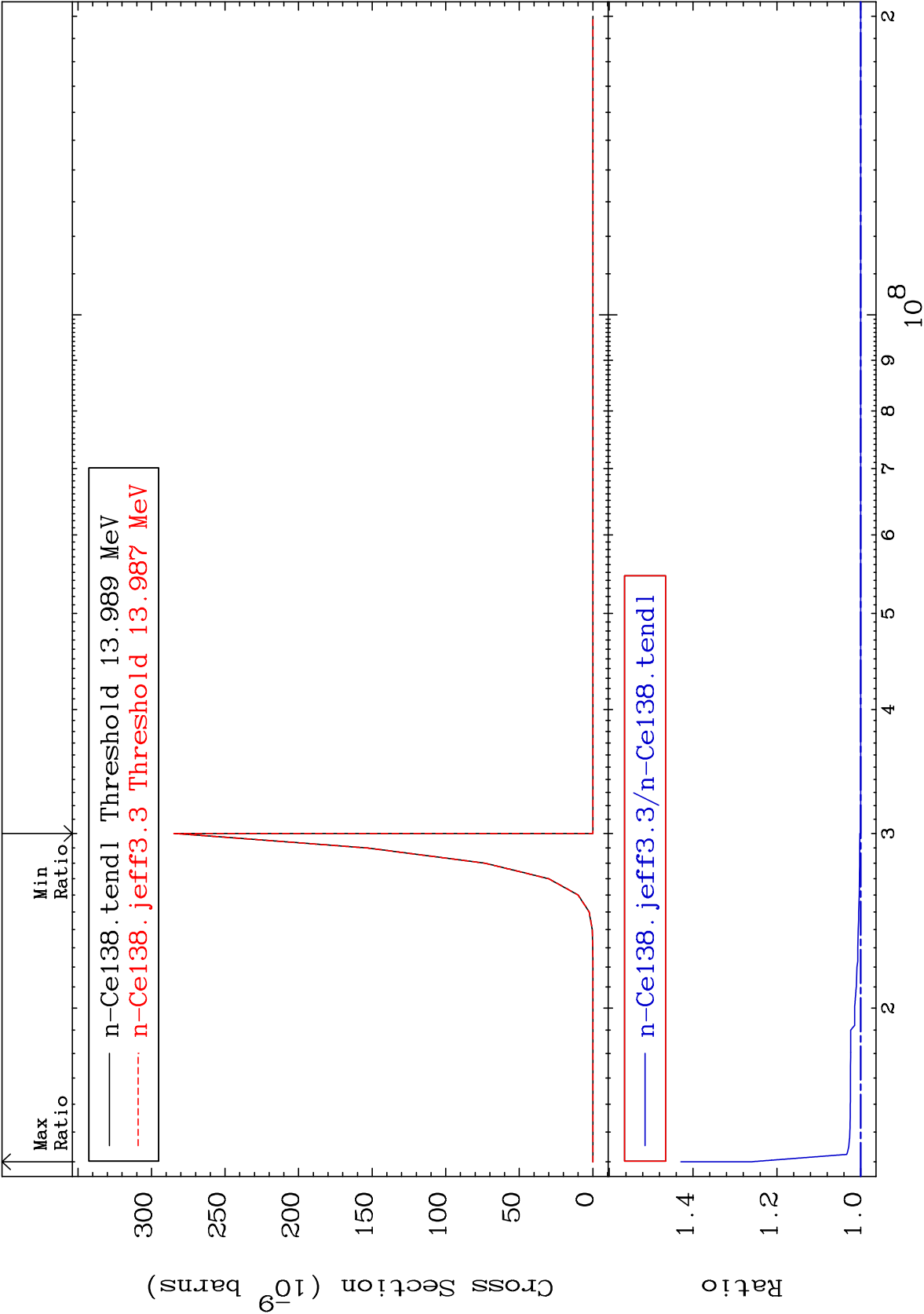
(n,2p)

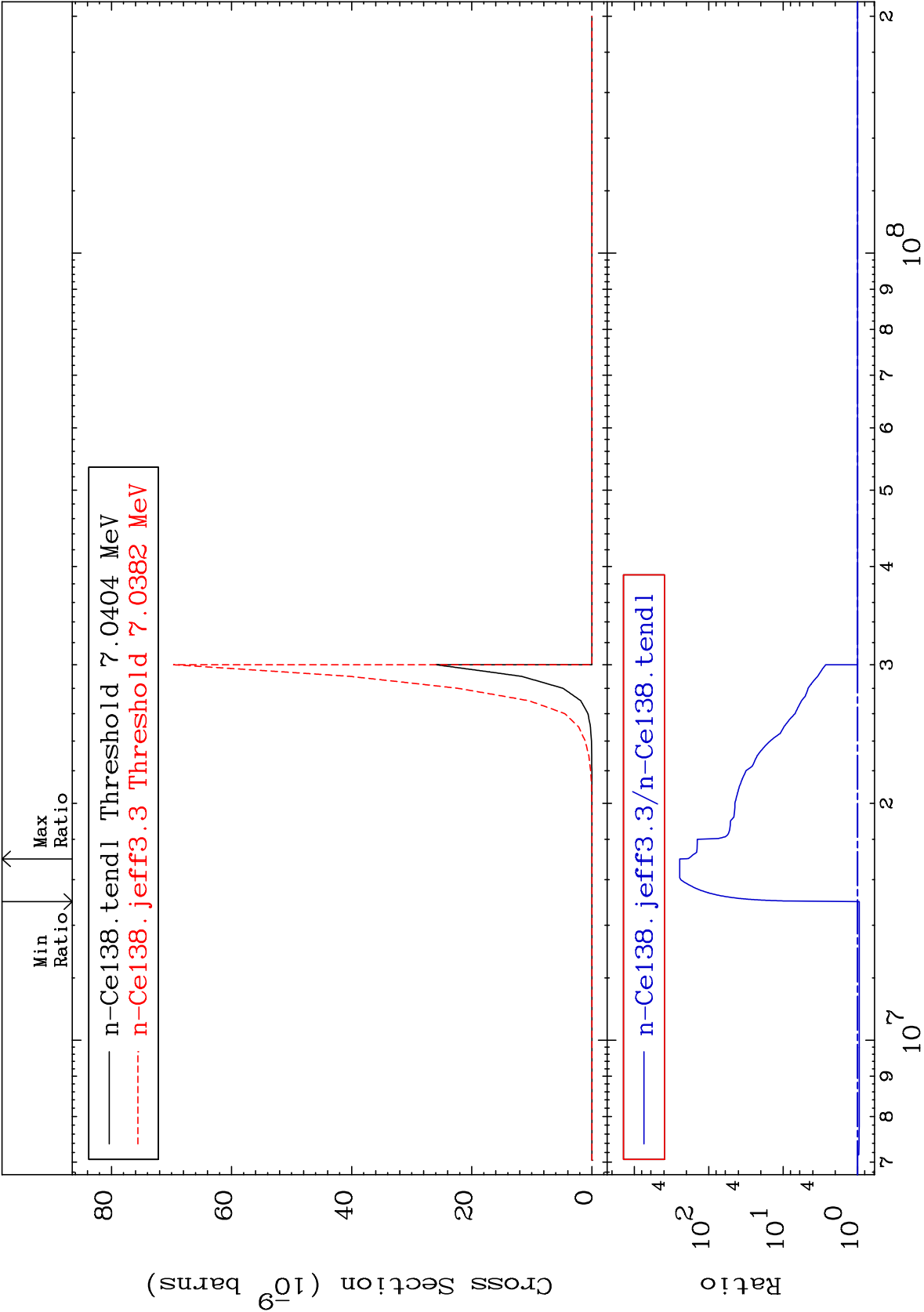
0.000 To 43.26 %

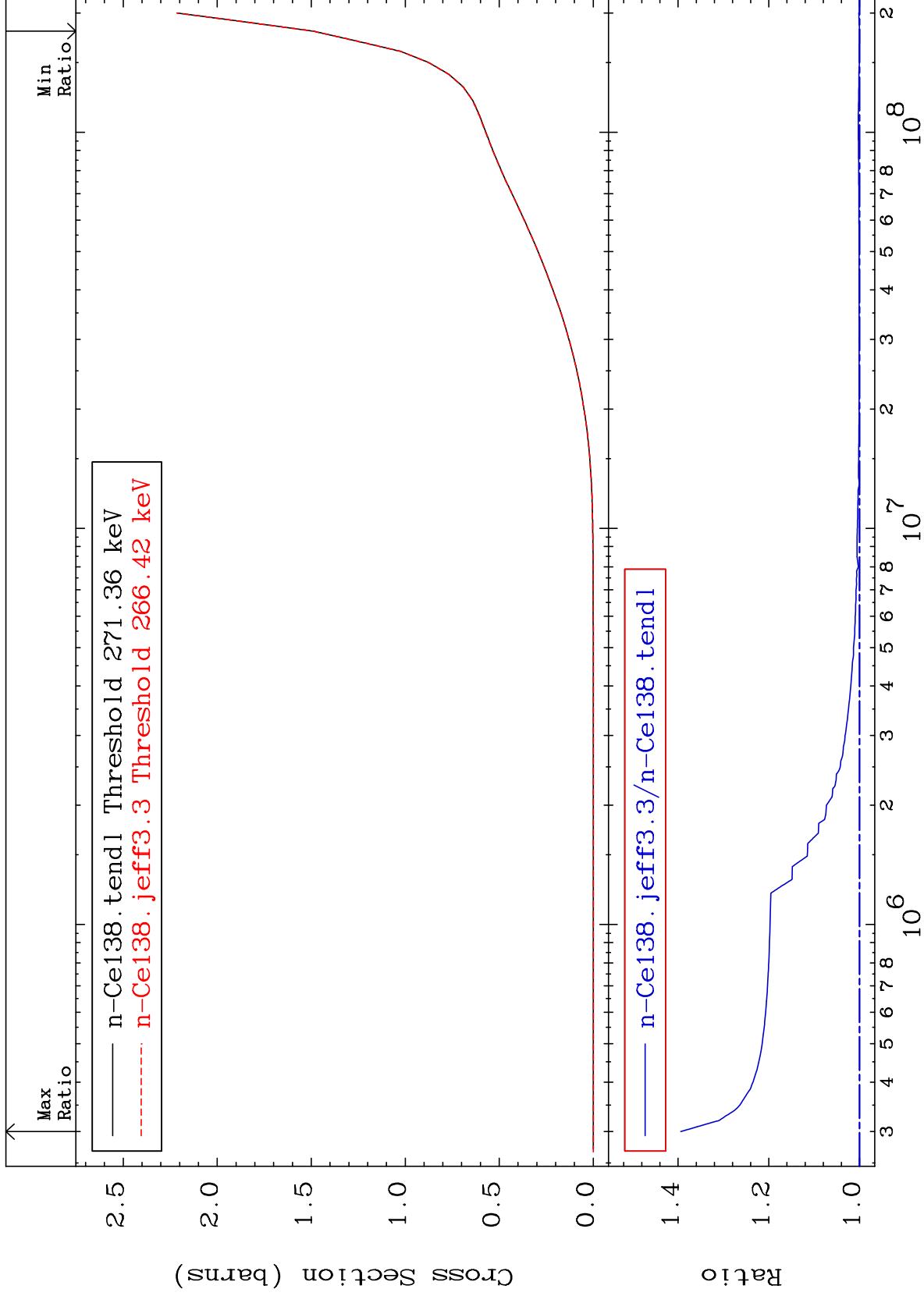








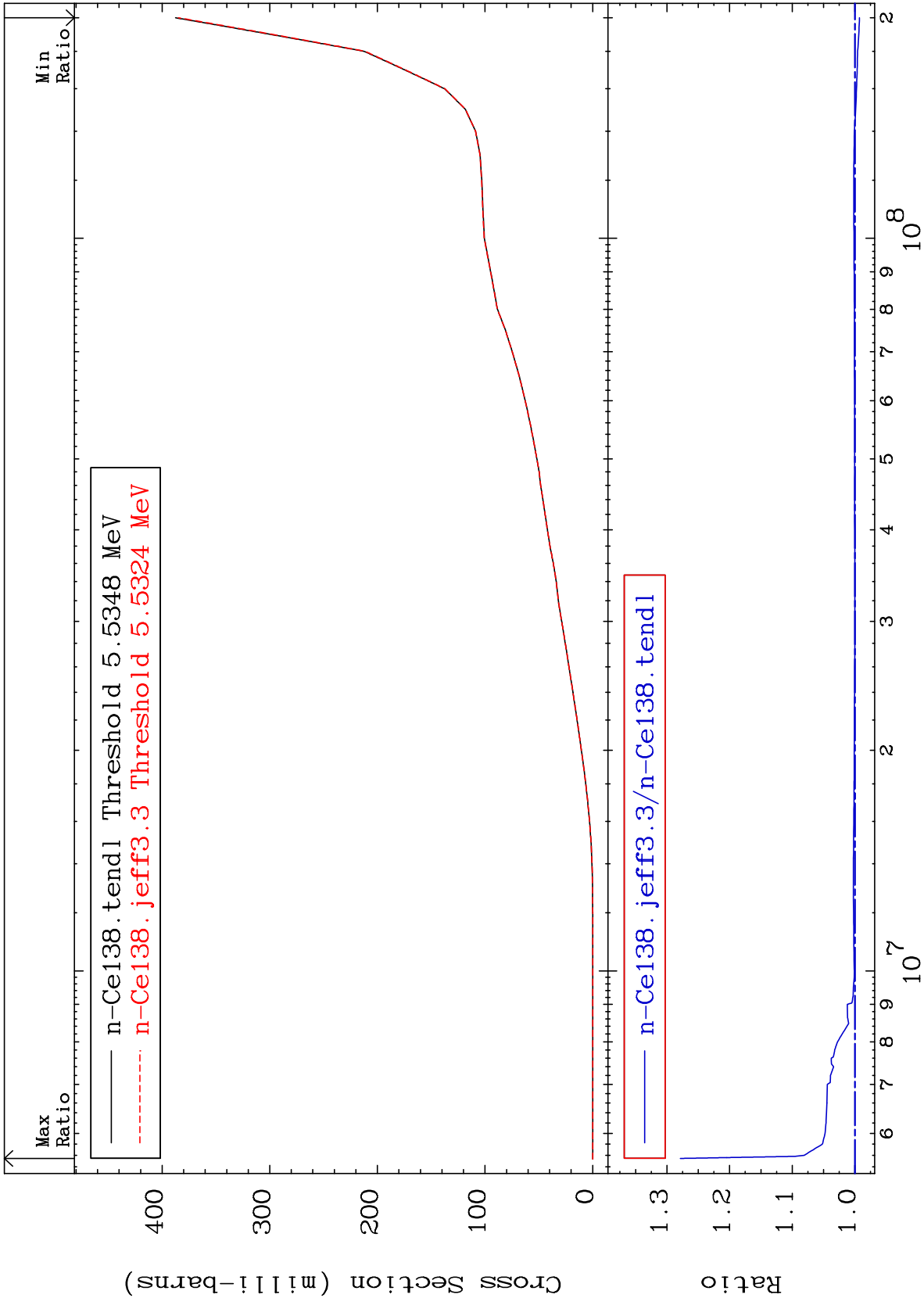




MAT 5831

Deuterium Production
Cross Section

58-Ce-138
-0.726 To 27.86 %



64

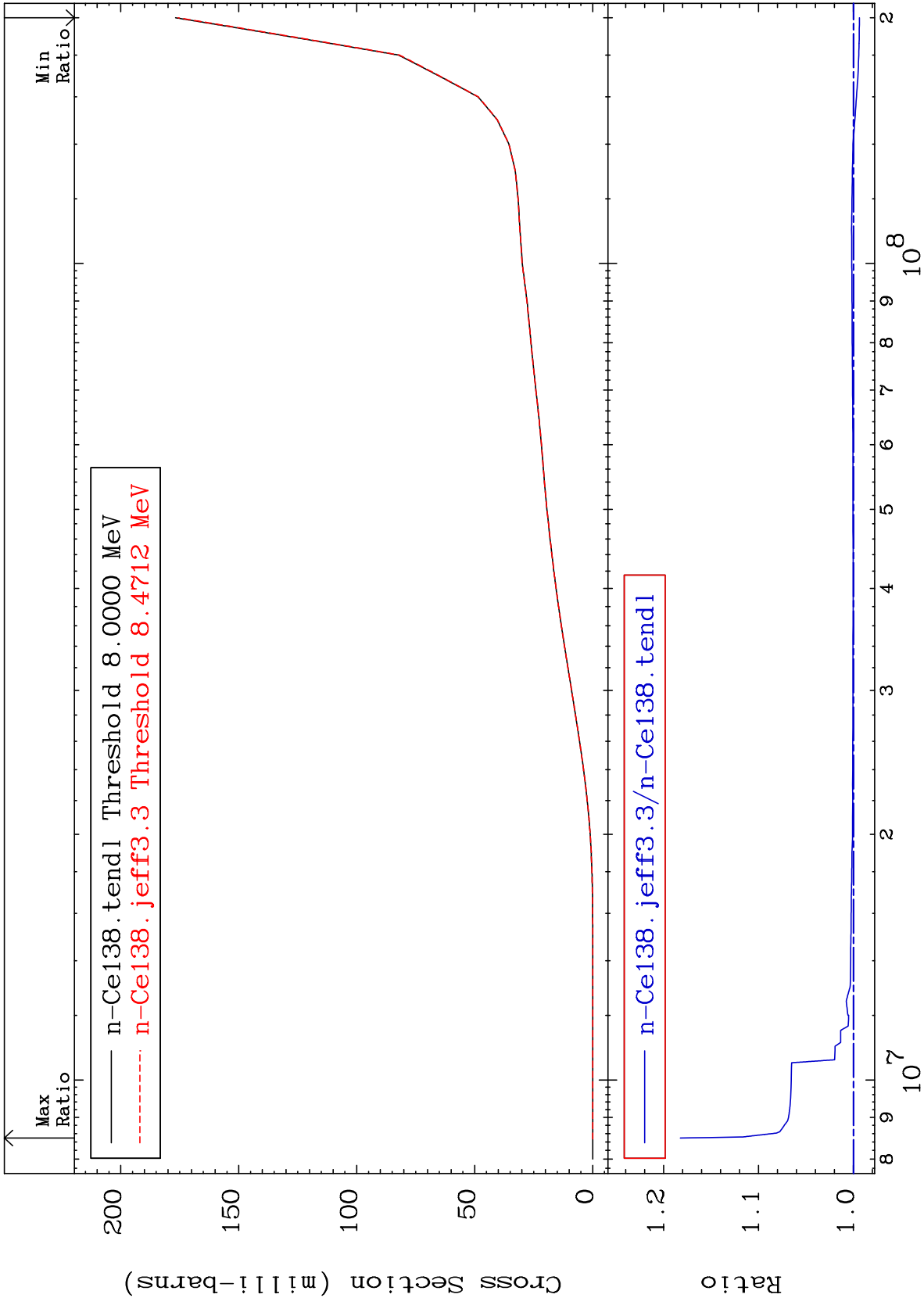
Incident Energy (eV)

58-Ce-138

MAT 5831

Tritium Production
Cross Section

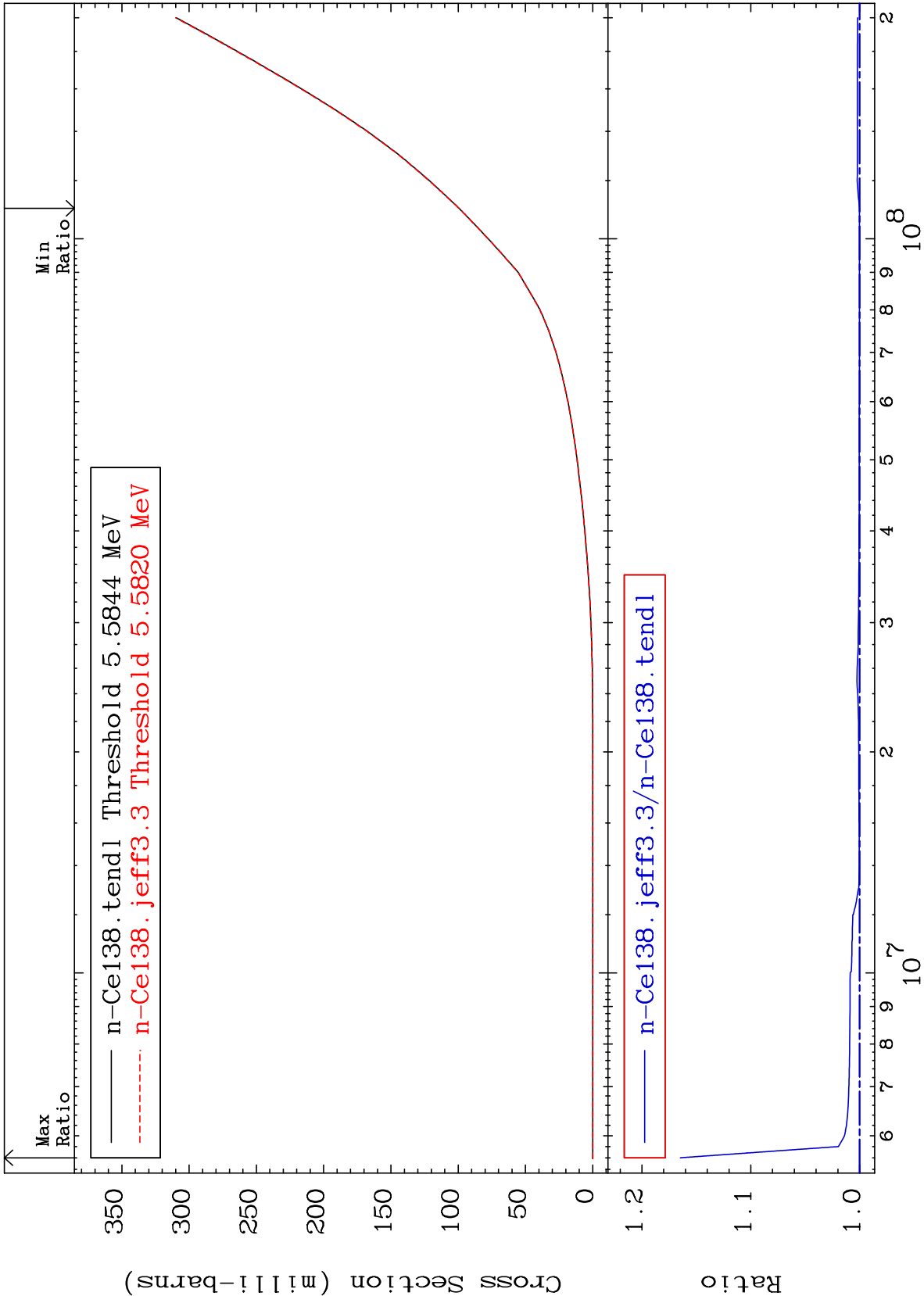
58-Ce-138
-0.631 To 18.24 %

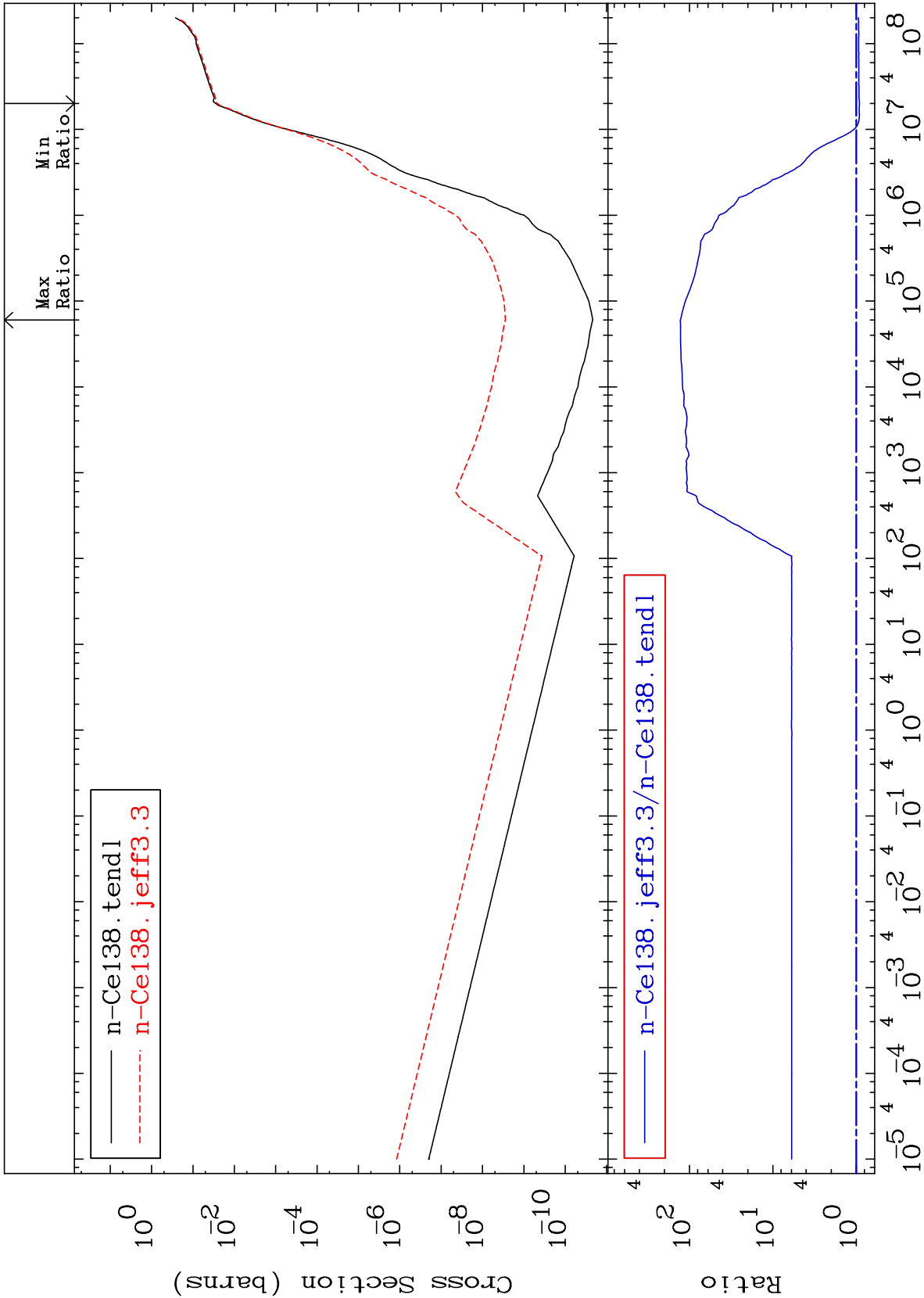


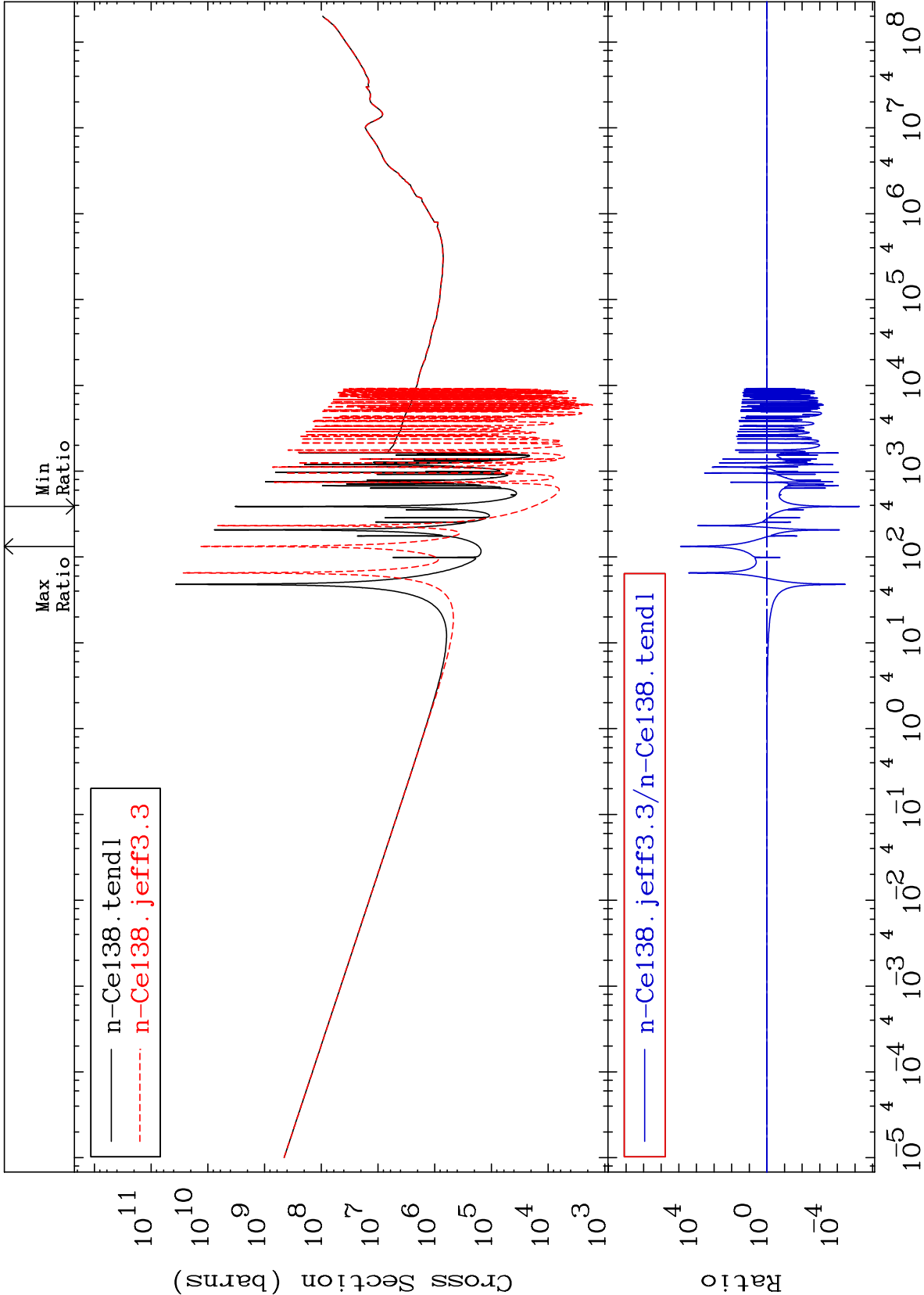
MAT 5831

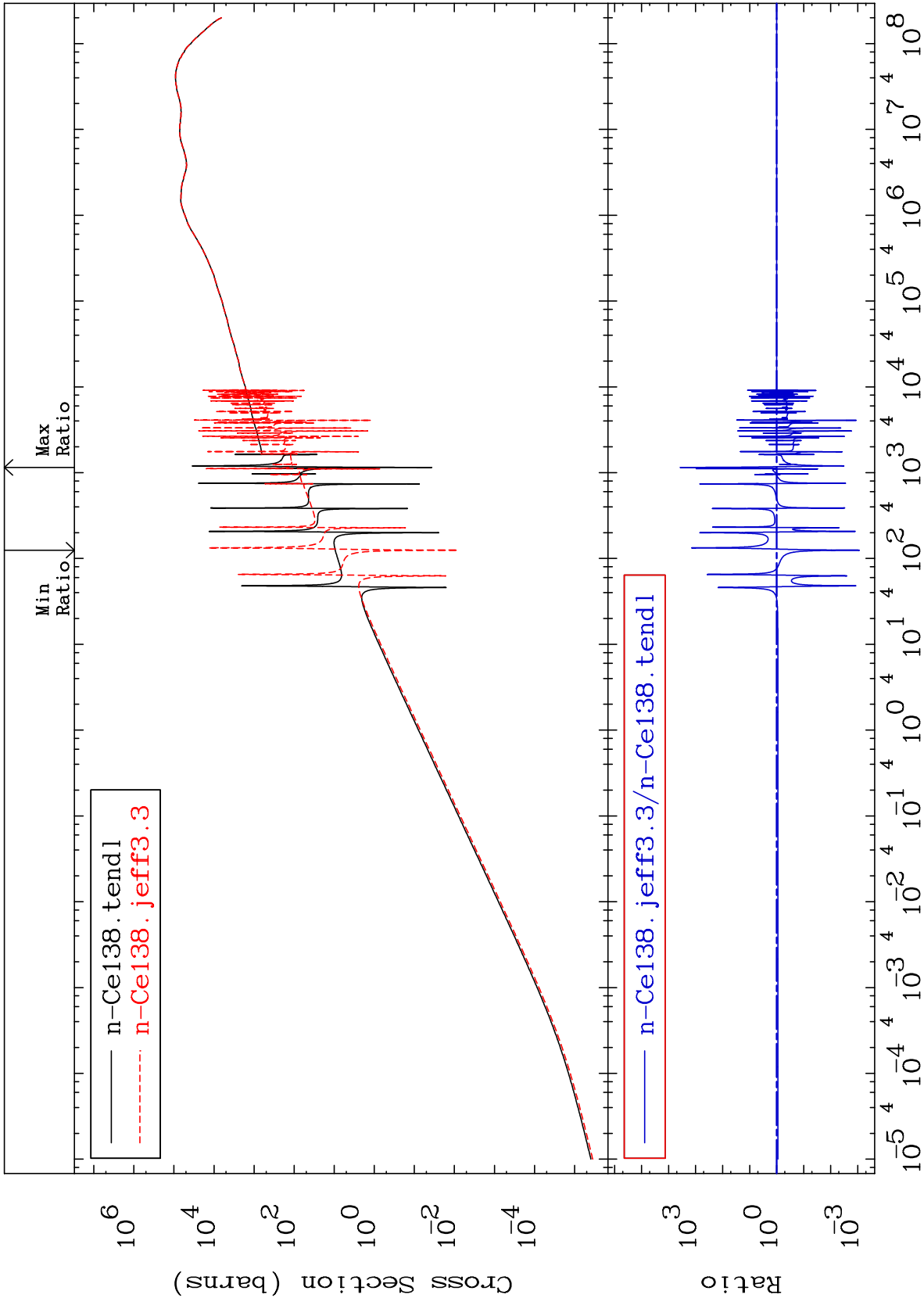
He-3 Production
Cross Section

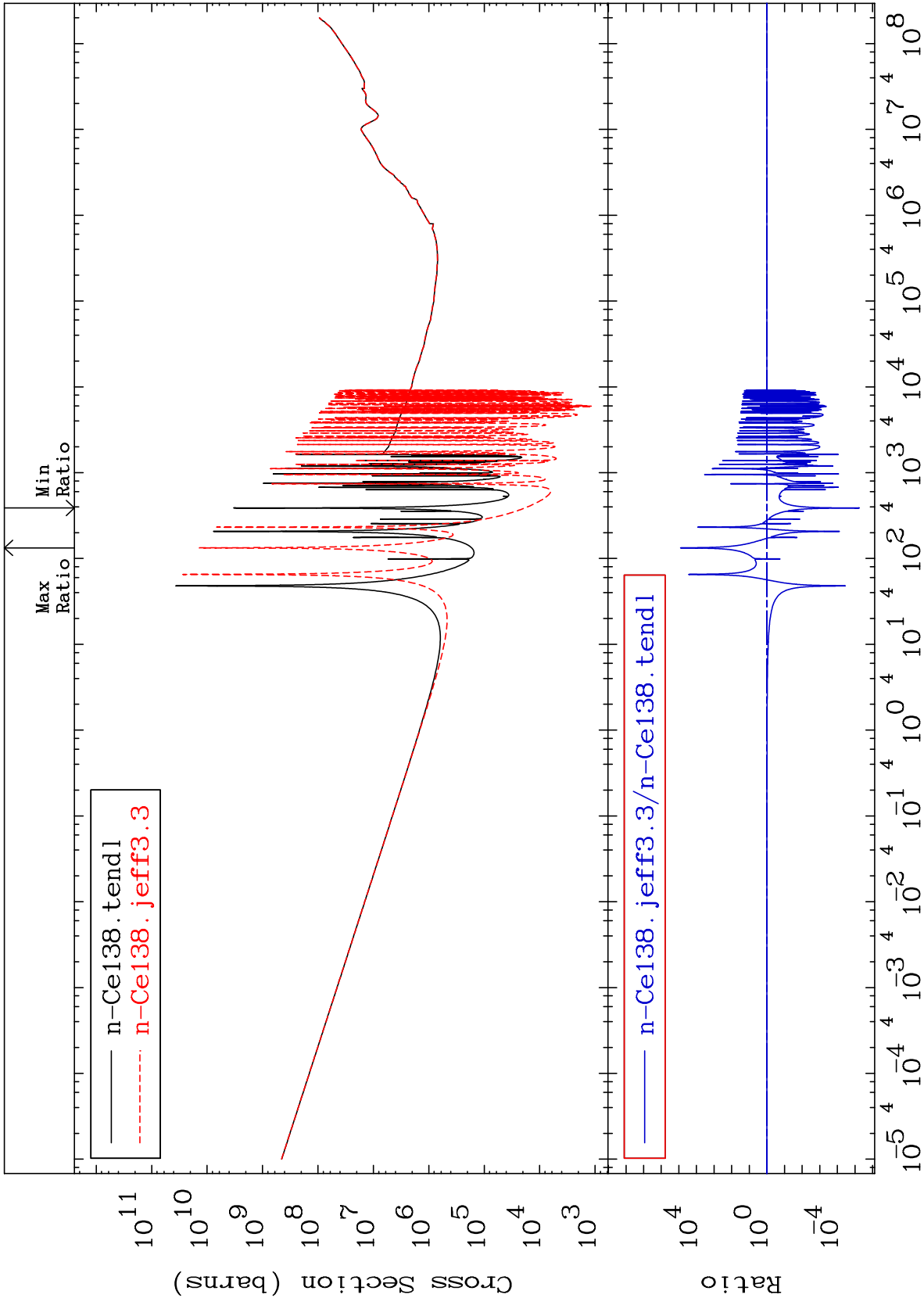
58-Ce-138
0.018 To 16.47 %











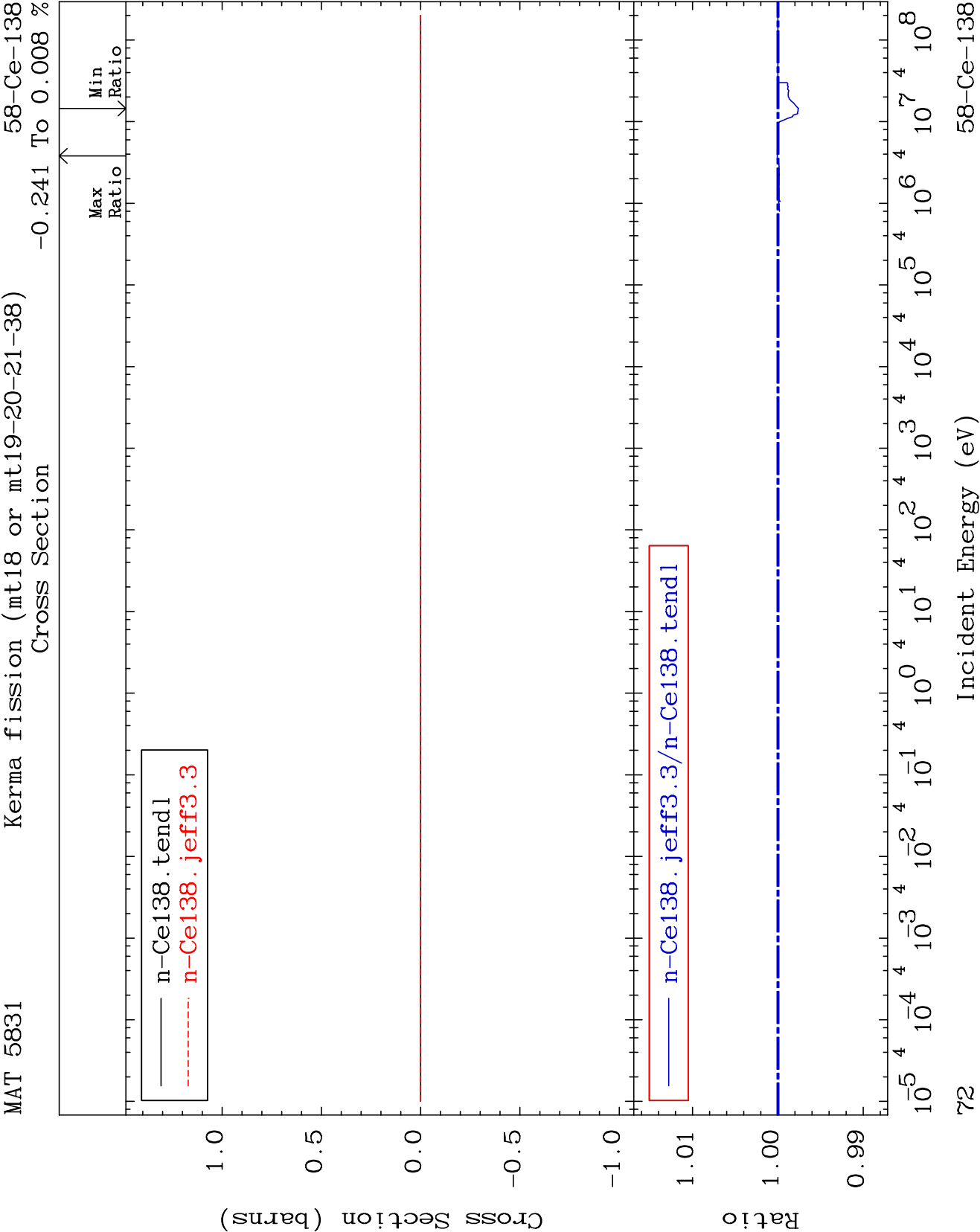
58-Ce-138

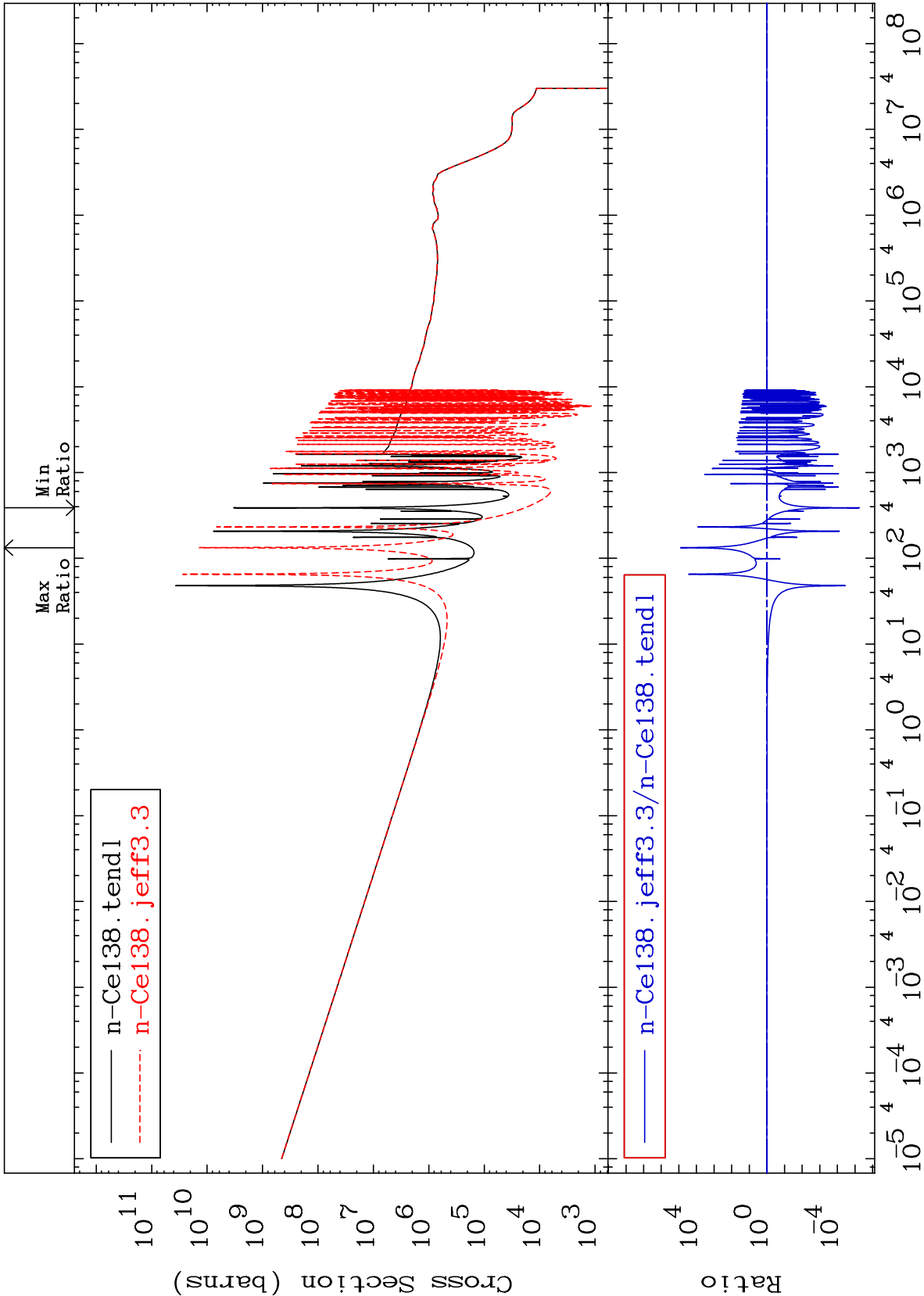
-0.241 To 0.008 %

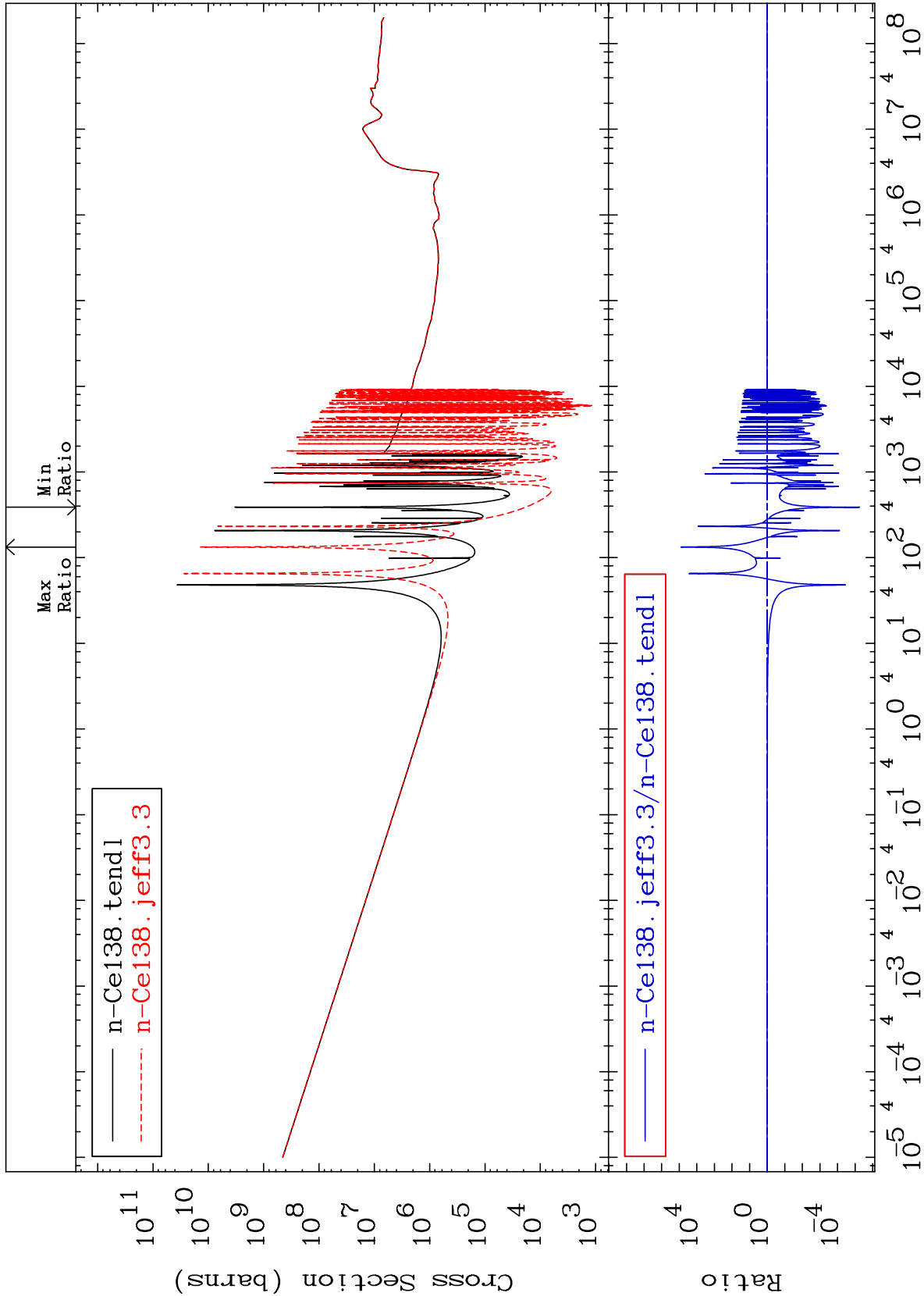


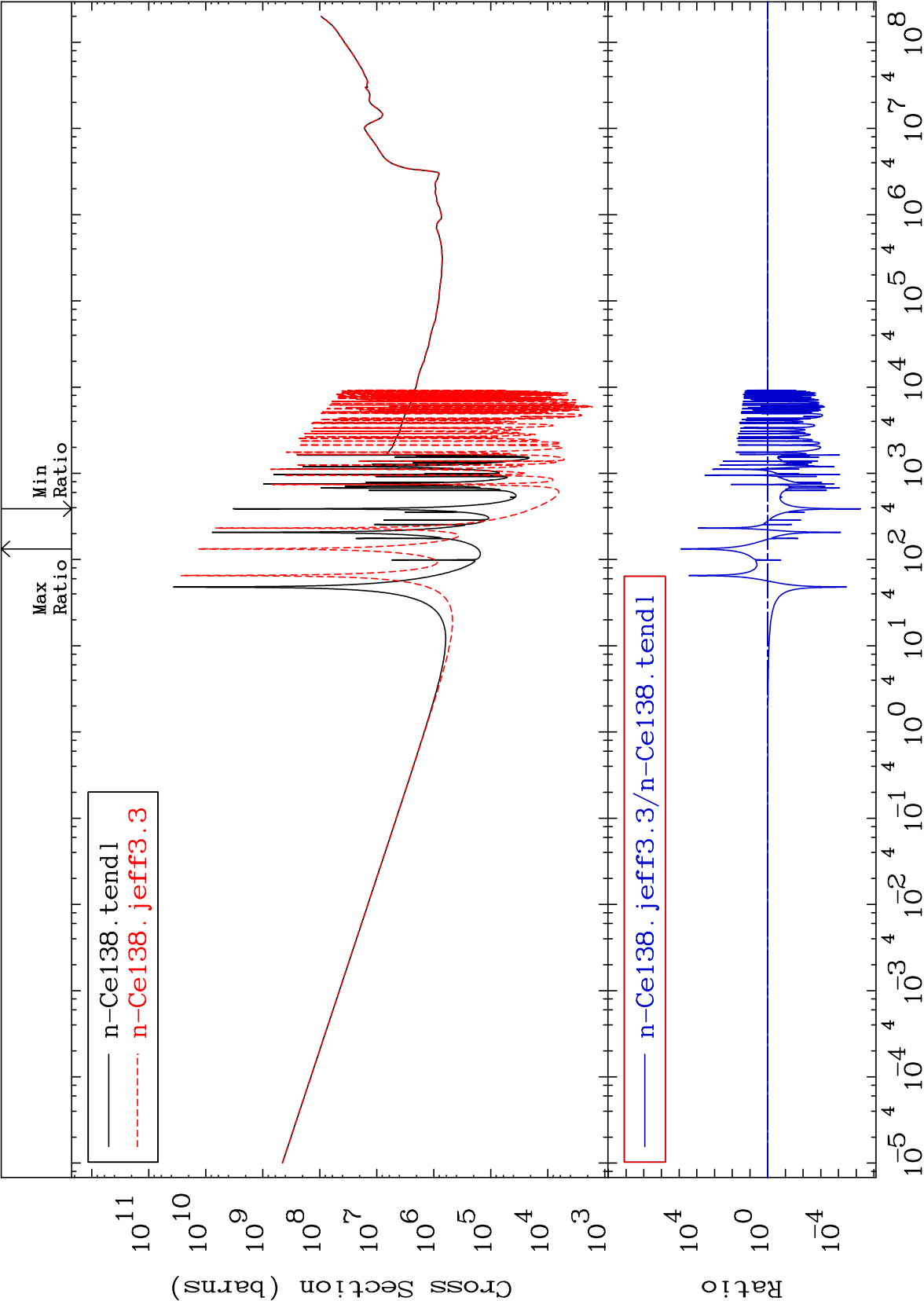
Incident Energy (eV)

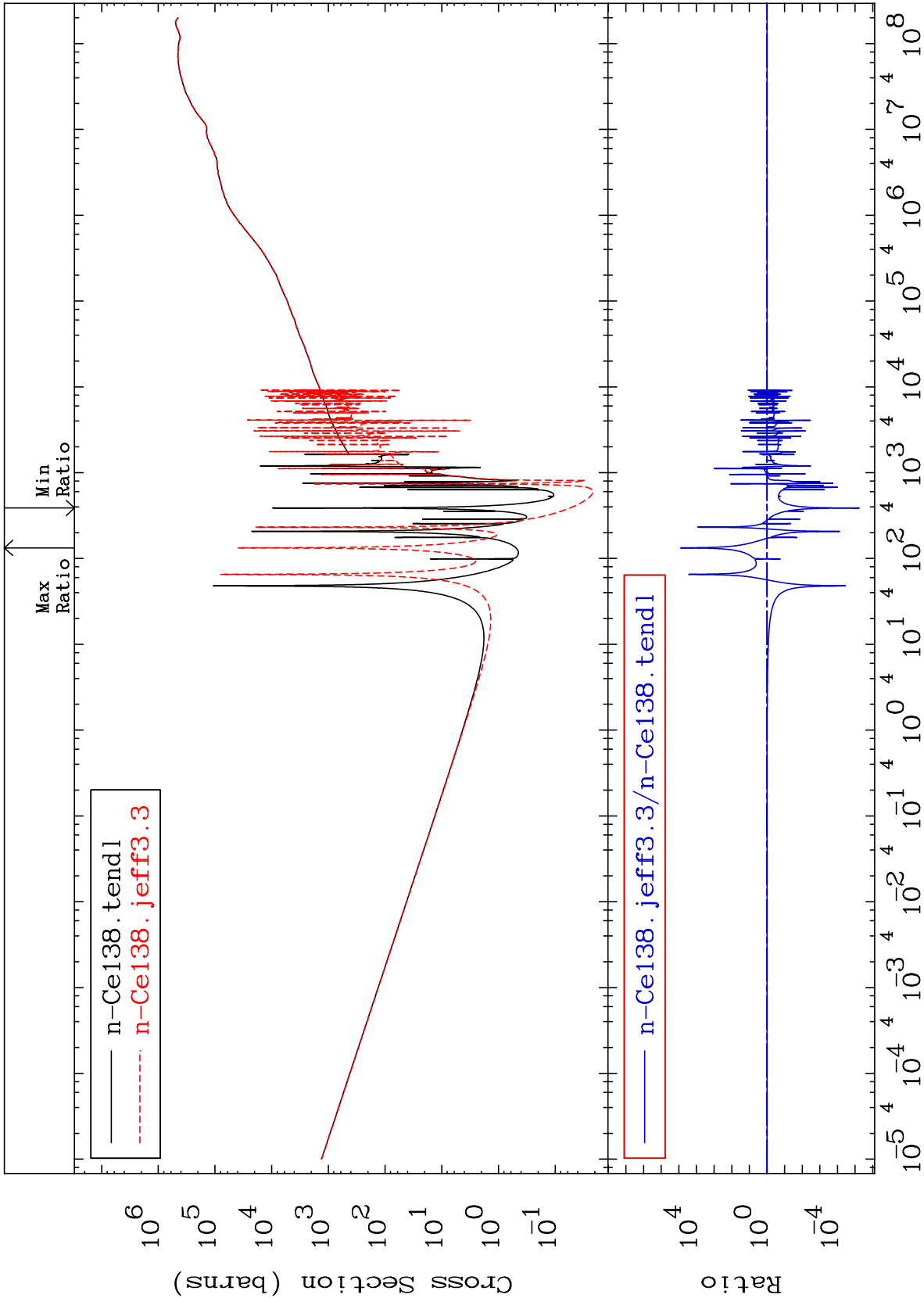
12

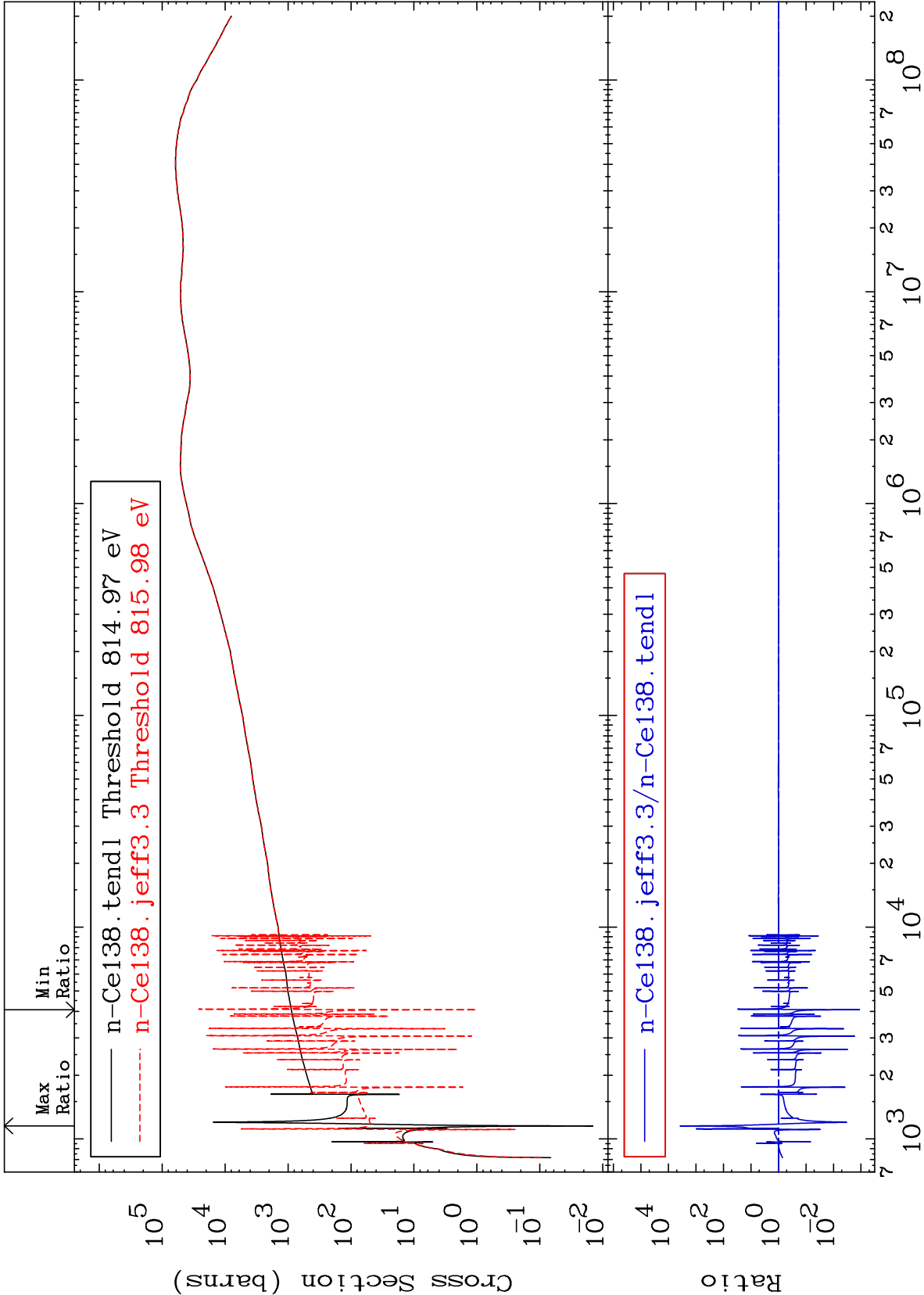










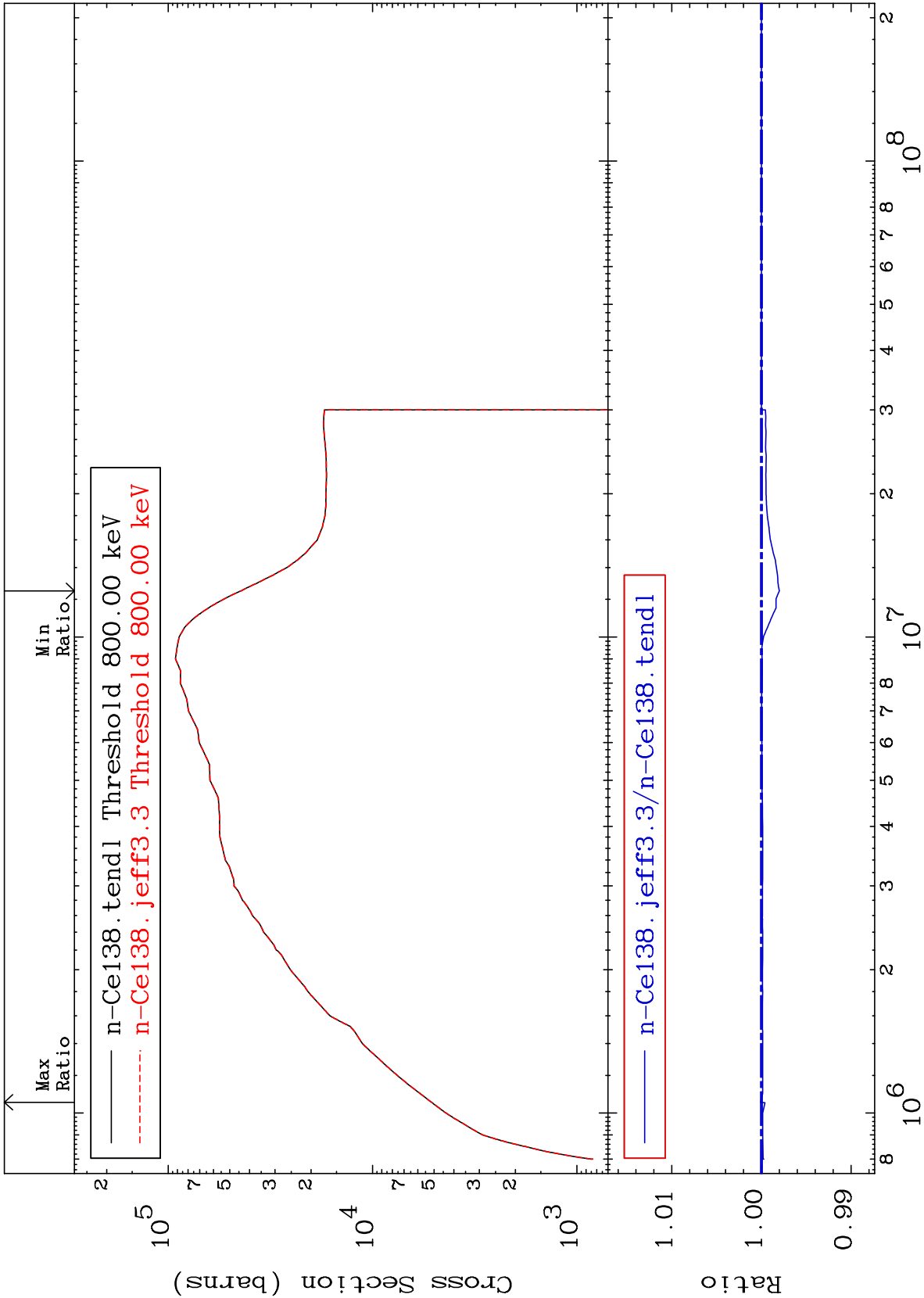


MAT 5831

Dpa inelastic (mt51-91)

58-Ce-138

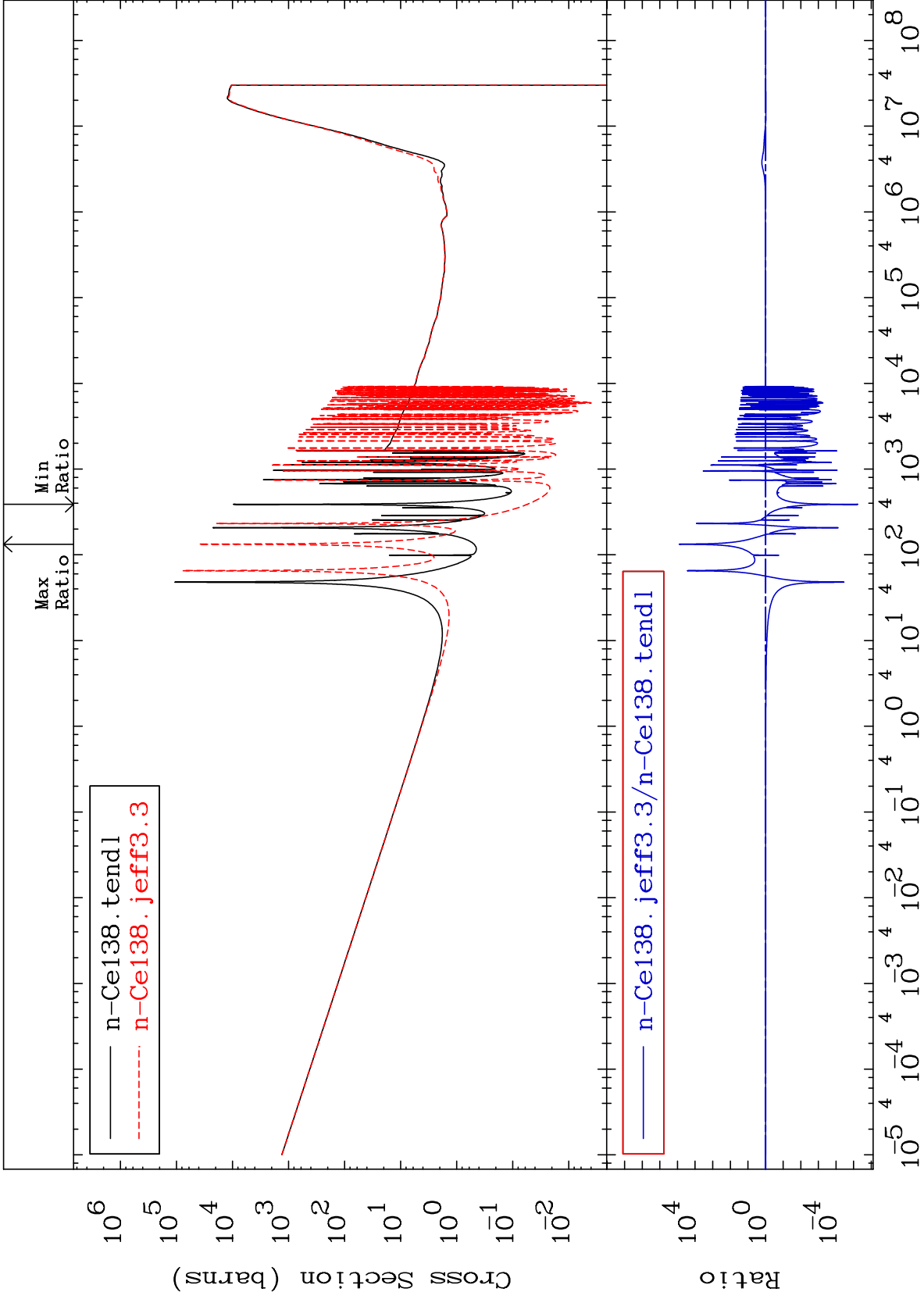
-0.199 To 0.010 %



78

Incident Energy (eV)

58-Ce-138



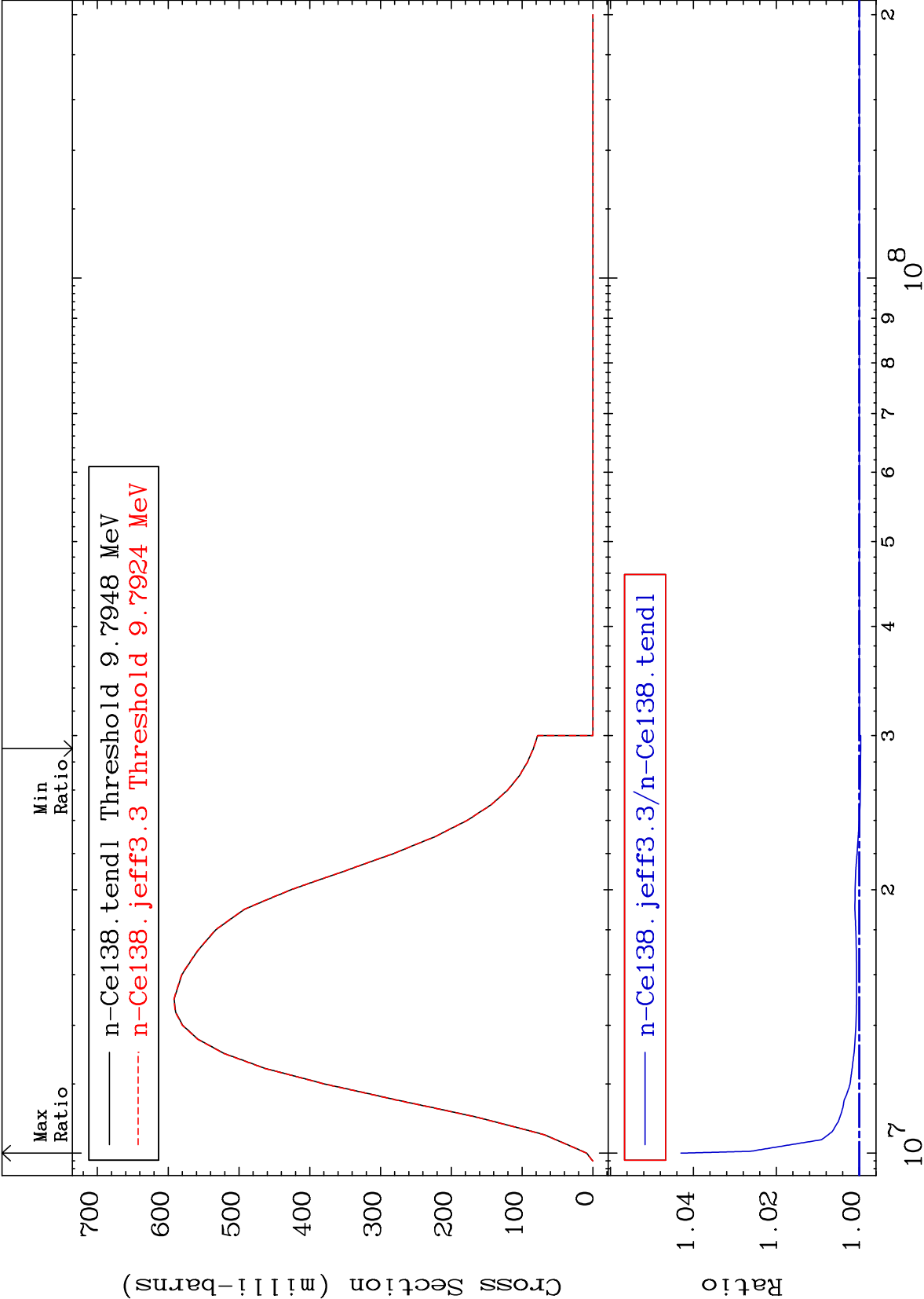
MAT 5831

(n,2n):58-Ce-137g

58-Ce-138

Radionuclide Production Cross Section

-0.034 To 4.303 %



Incident Energy (eV)

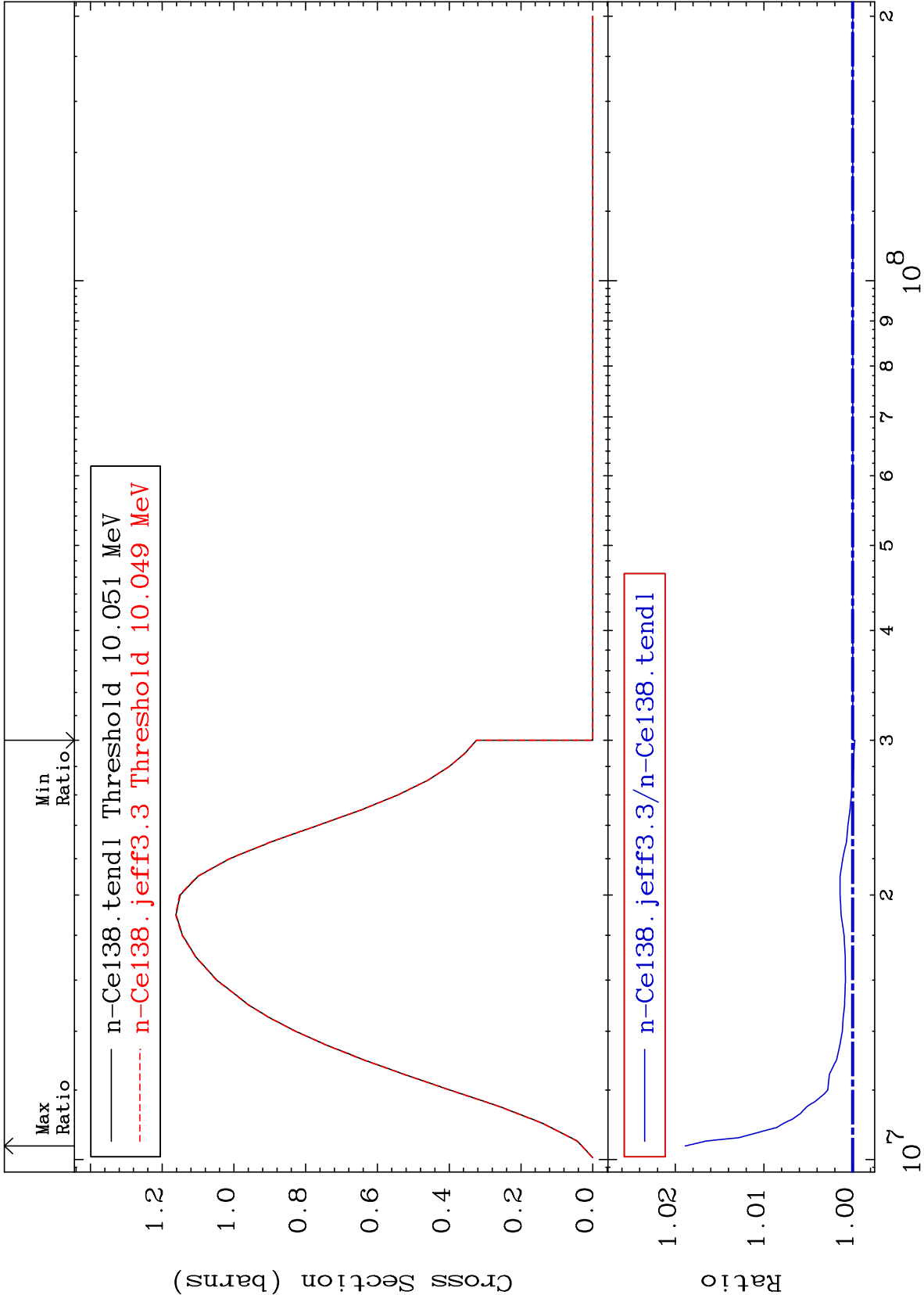
58-Ce-138

MAT 5831

(n,2n):58-Ce-137m2

58-Ce-138

Radionuclide Production Cross Section -0.024 To 1.890 %

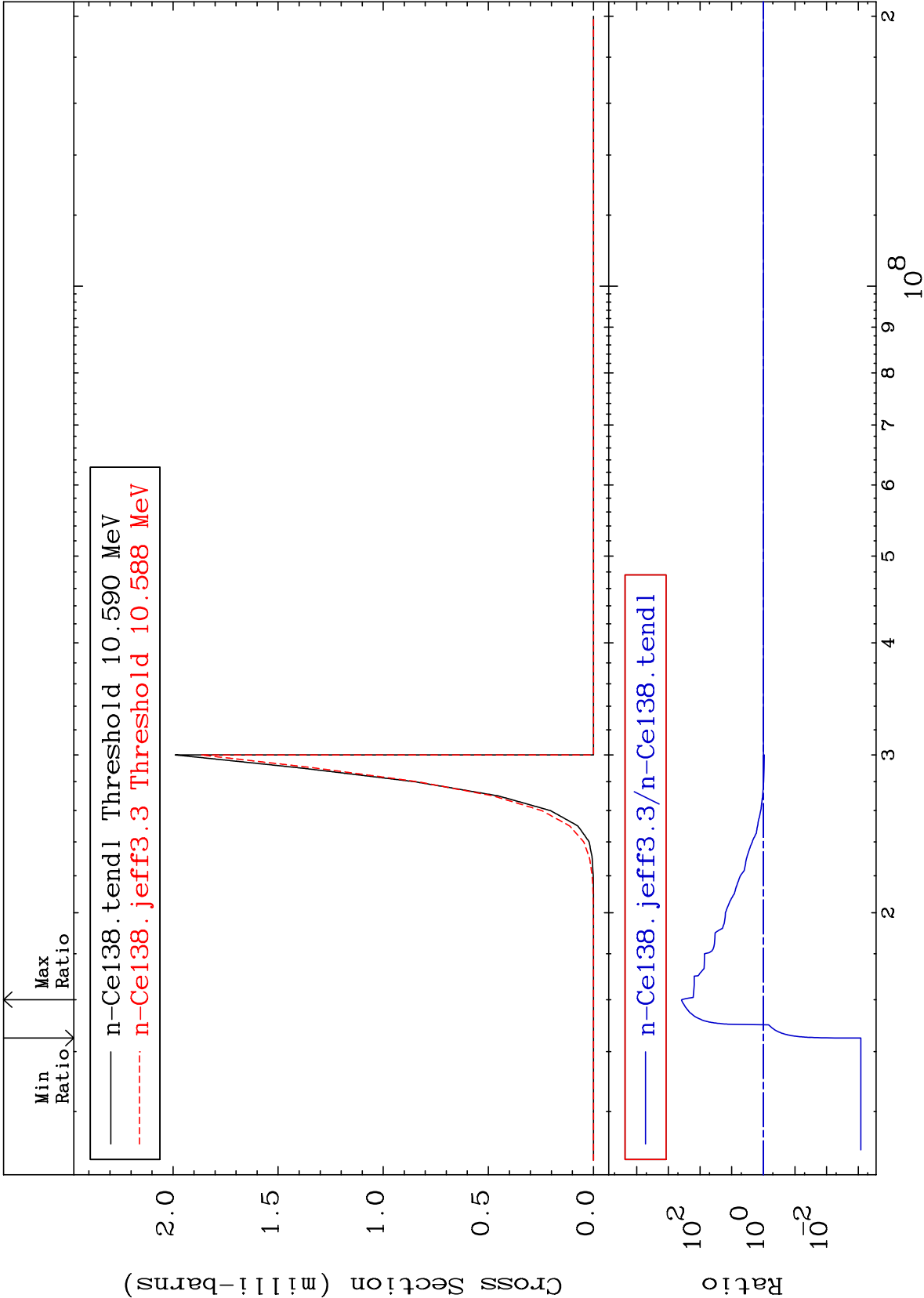


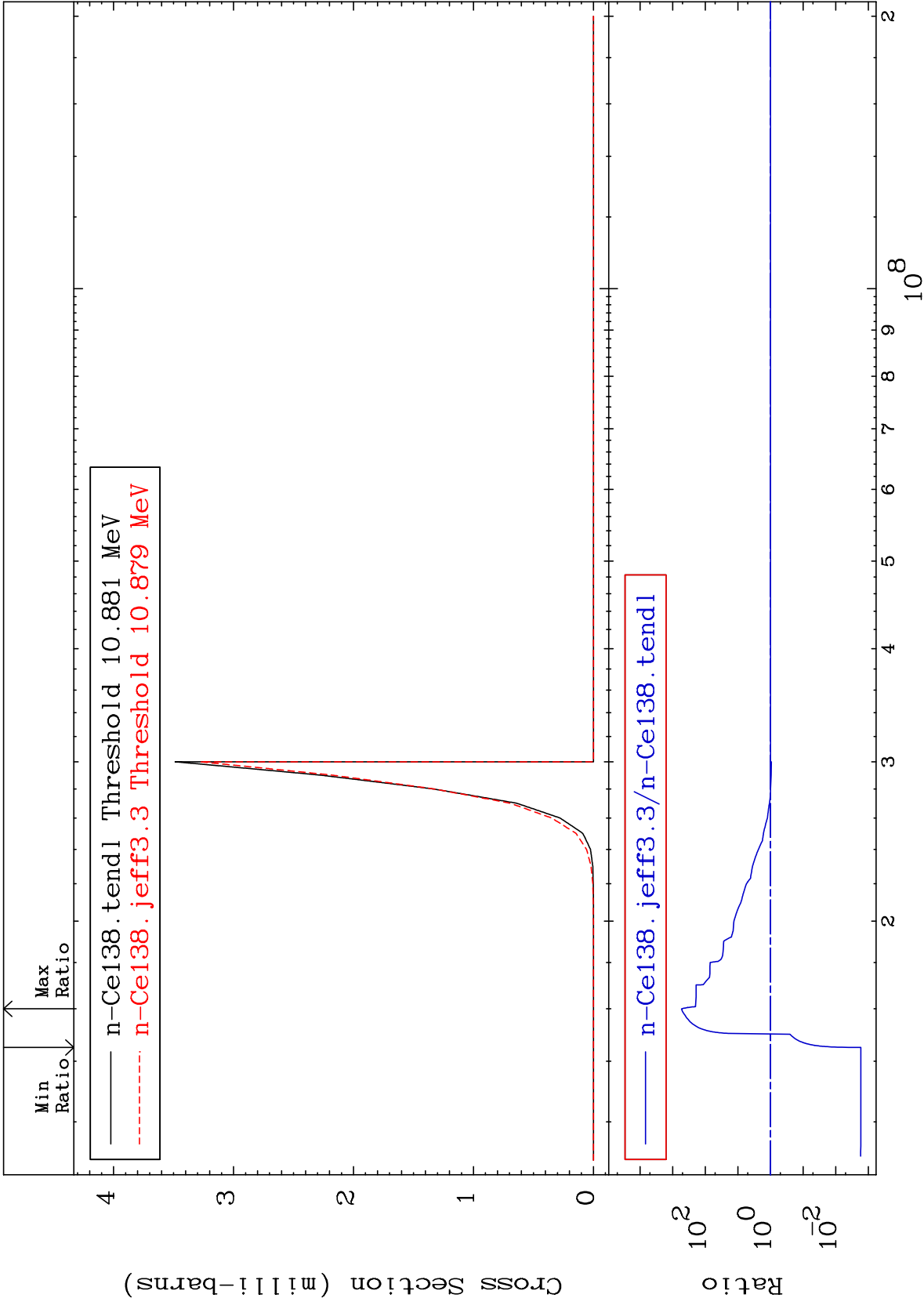
Incident Energy (eV)

58-Ce-138

Radionuclide Production Cross Section

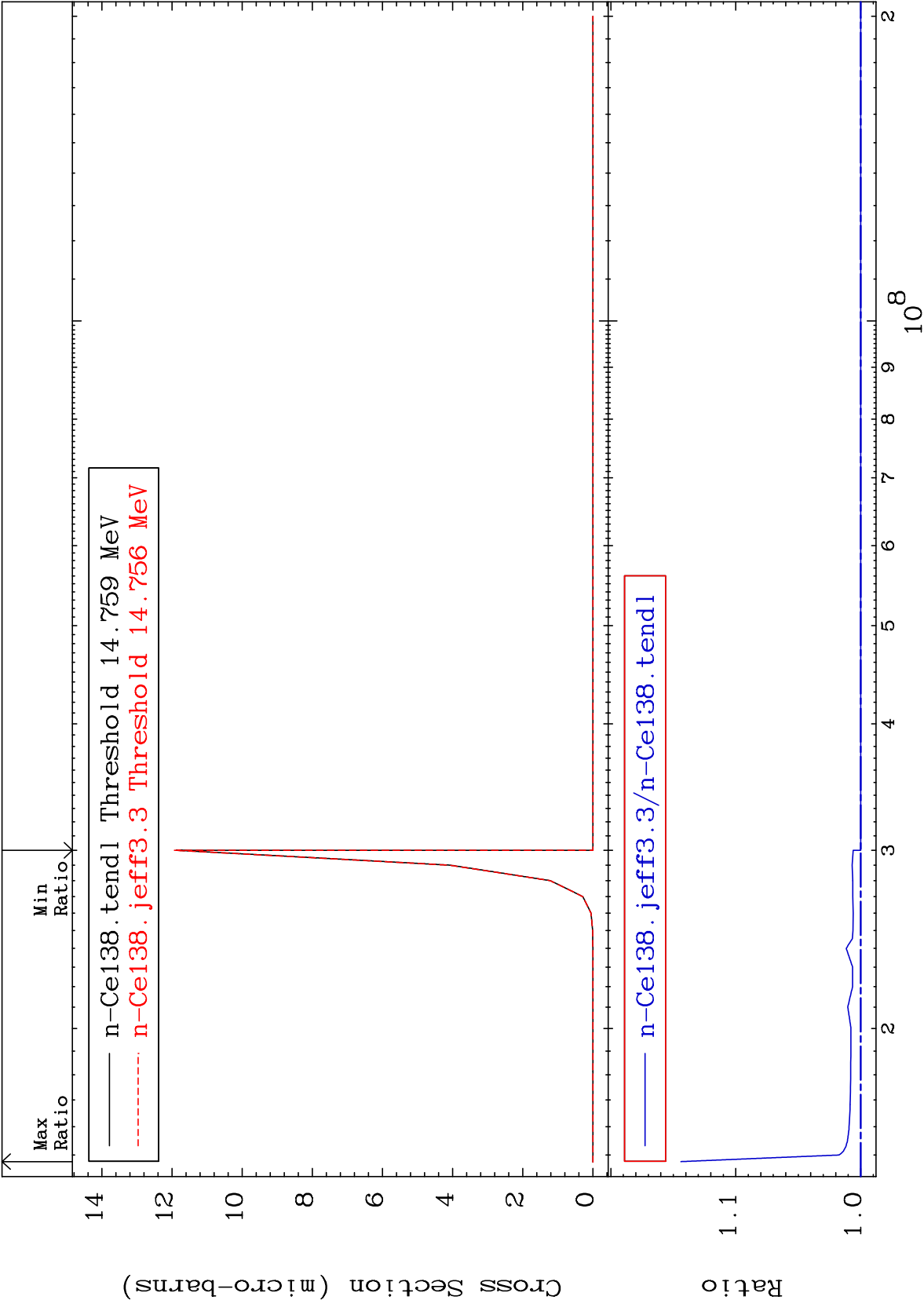
-99.92 To 9999. %





MAT 5831

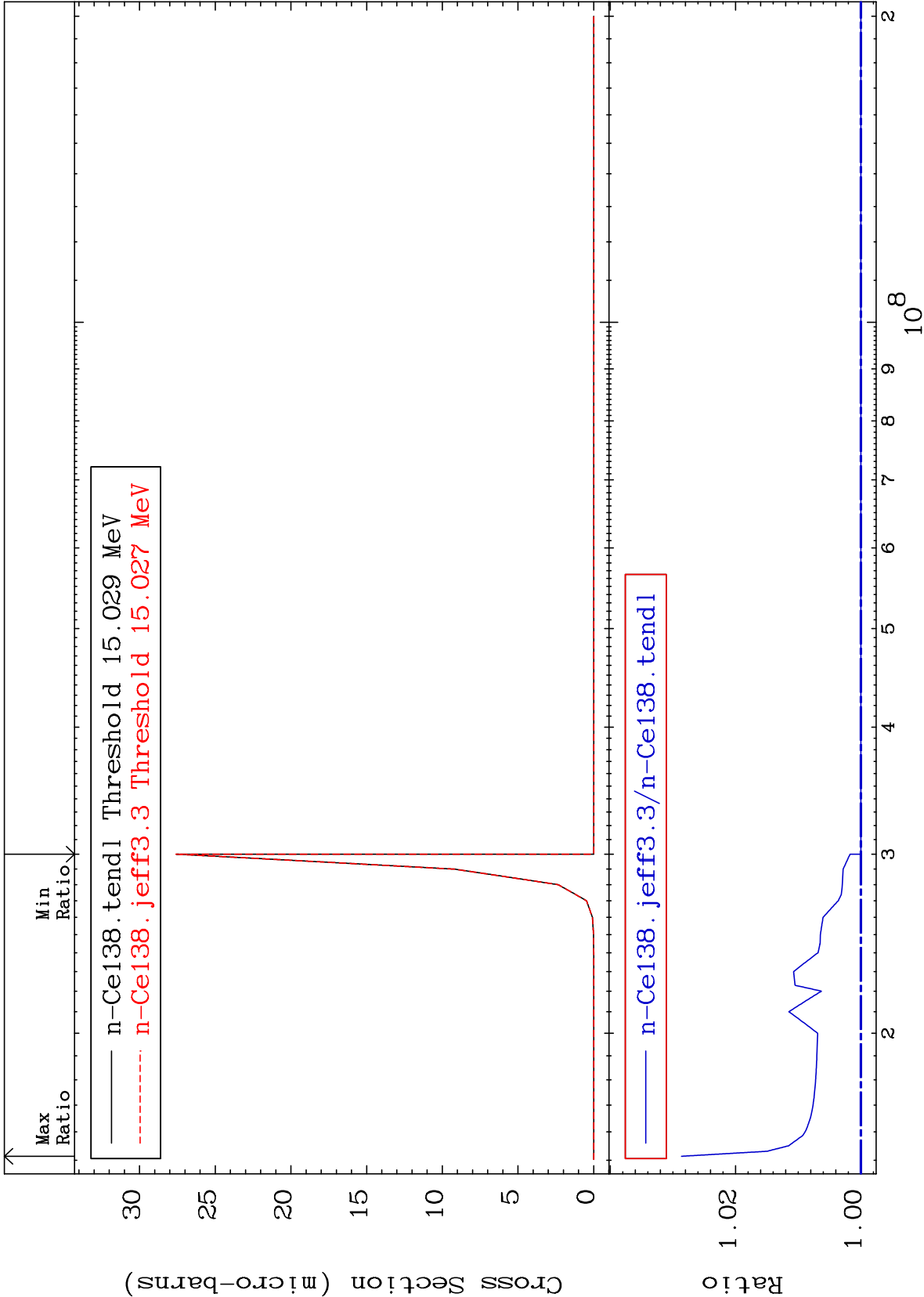
(n,n') He-3:56-Ba-135g 58-Ce-138
Radionuclide Production Cross Section 0.000 To 14.39 %

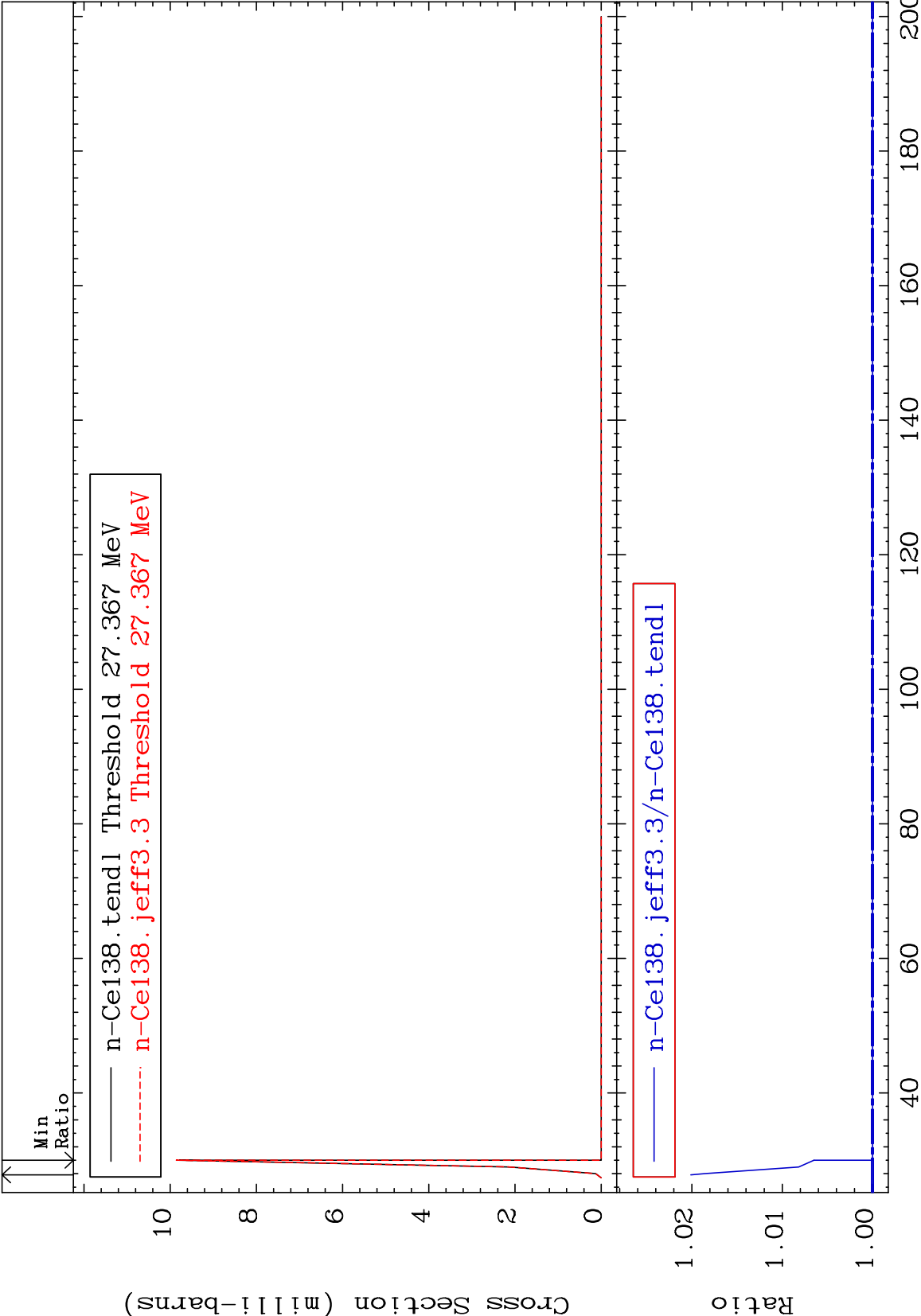


Radionuclide Production Cross Section

0.000

To 2.863 %





MAT 5831

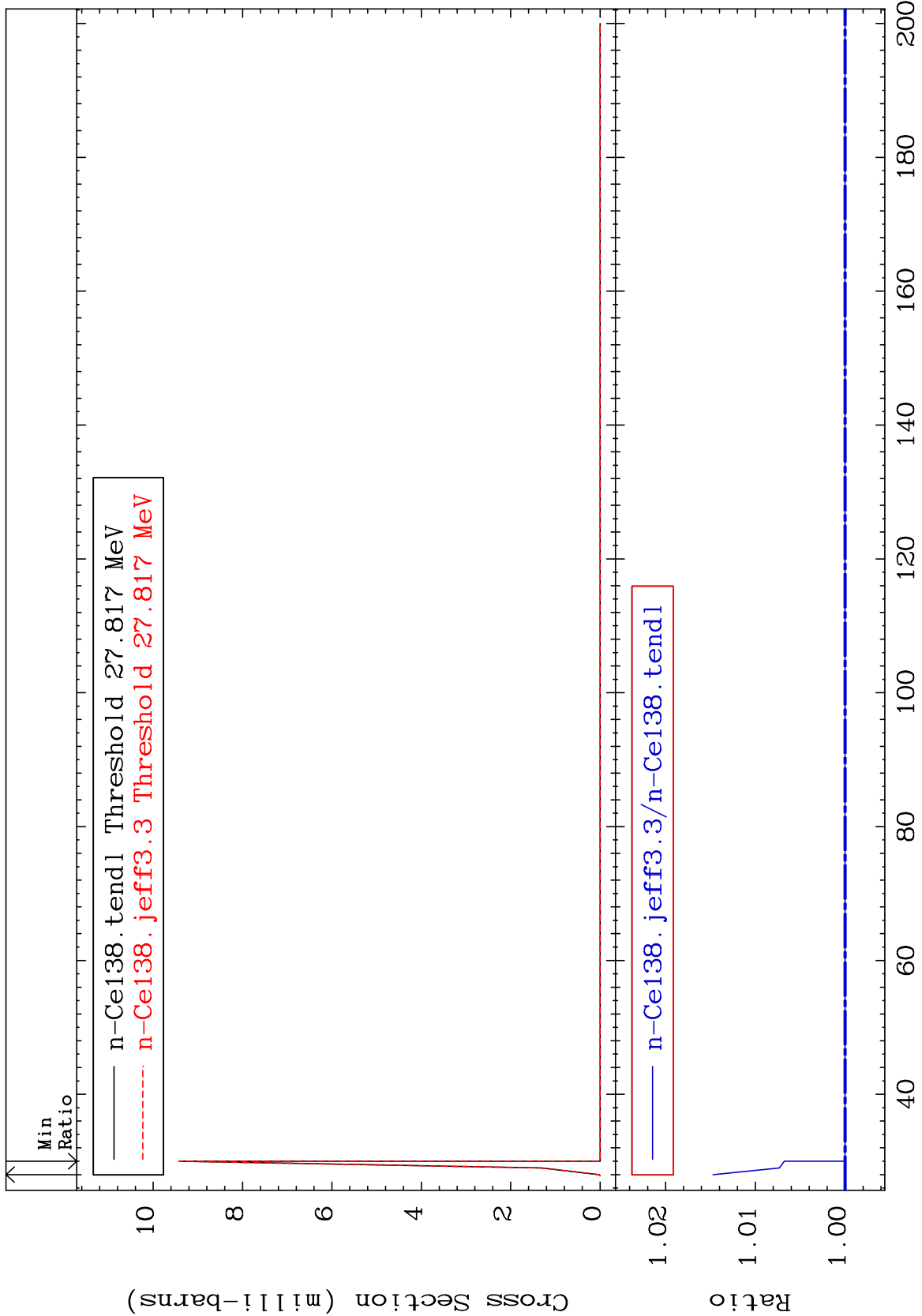
(n,4n):58-Ce-135m4

58-Ce-138

Radionuclide Production Cross Section

0.000

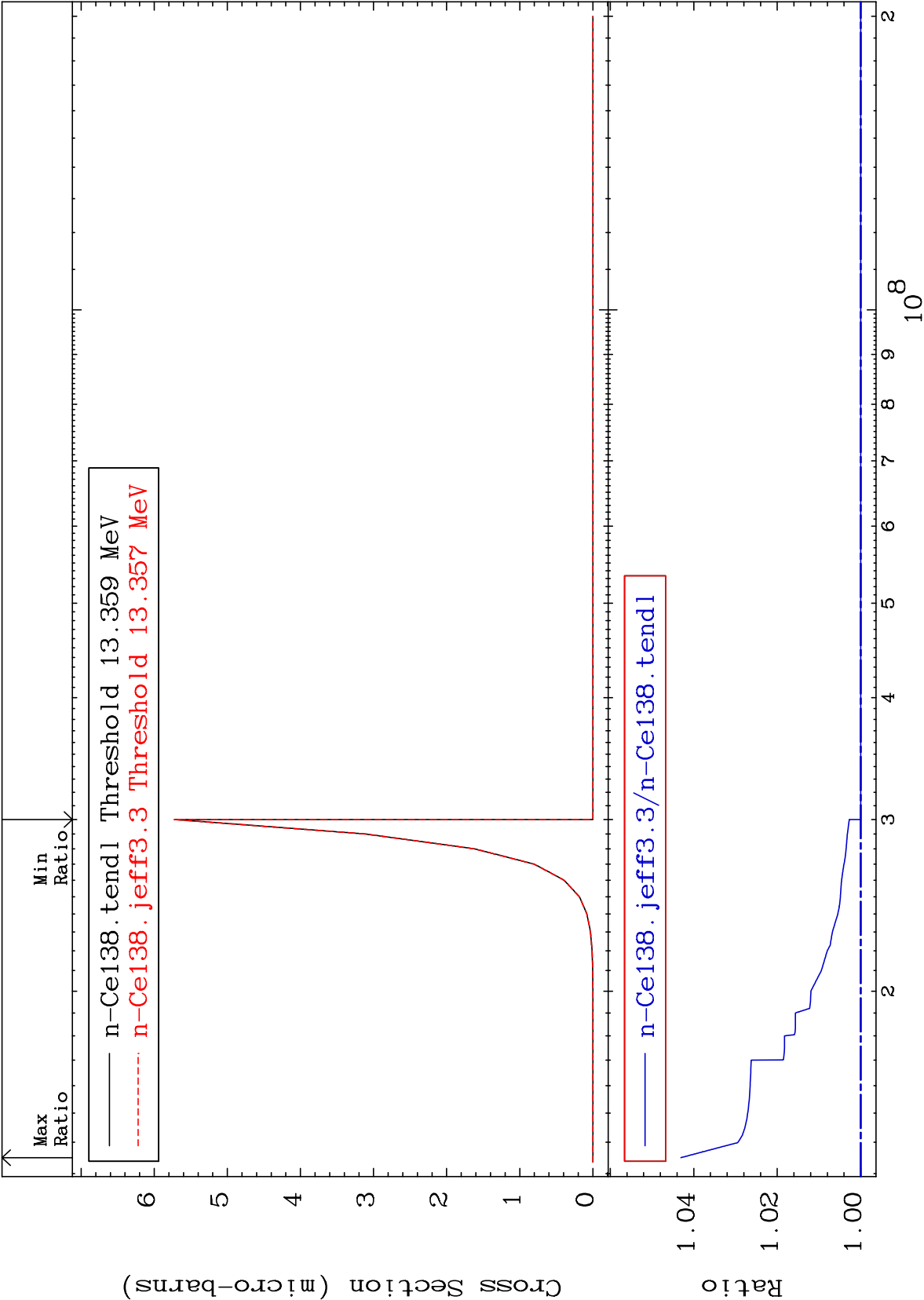
To 1.472 %



87

Incident Energy (MeV)

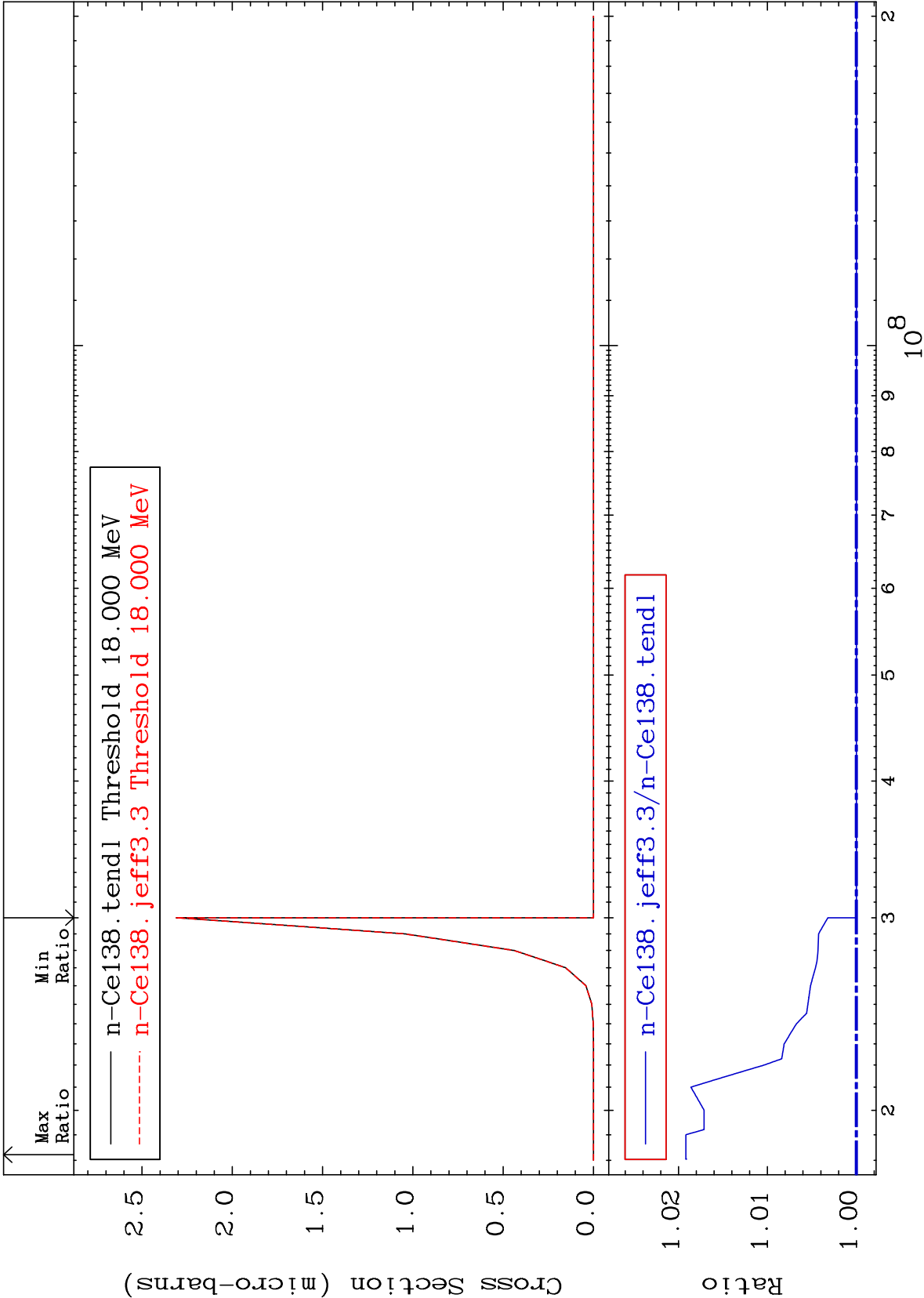
58-Ce-138



Radionuclide Production Cross Section

0.000

To 1.919 %



MAT 5831

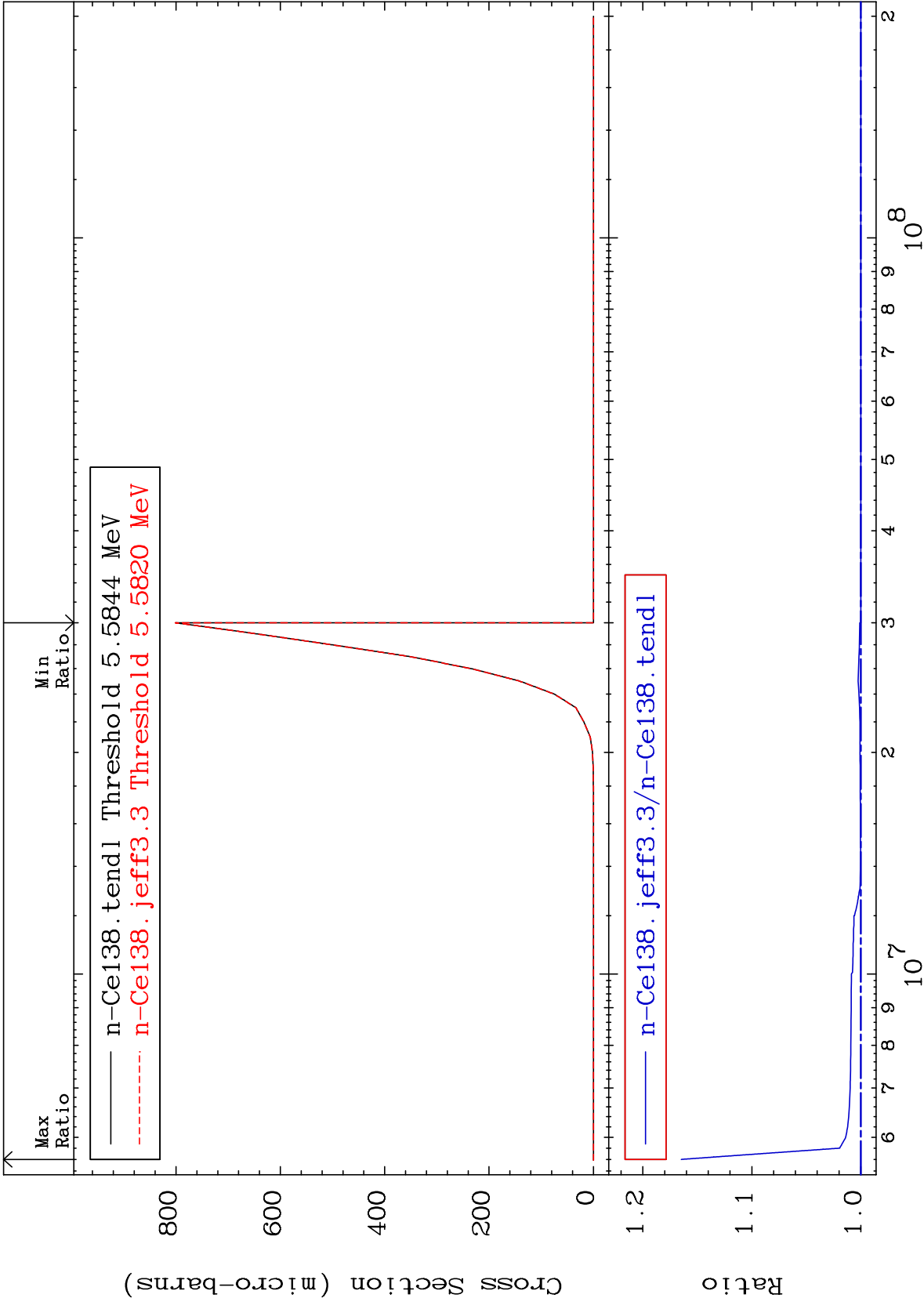
(n,He-3):56-Ba-136g

58-Ce-138

Radionuclide Production Cross Section

0.000

To 16.47 %

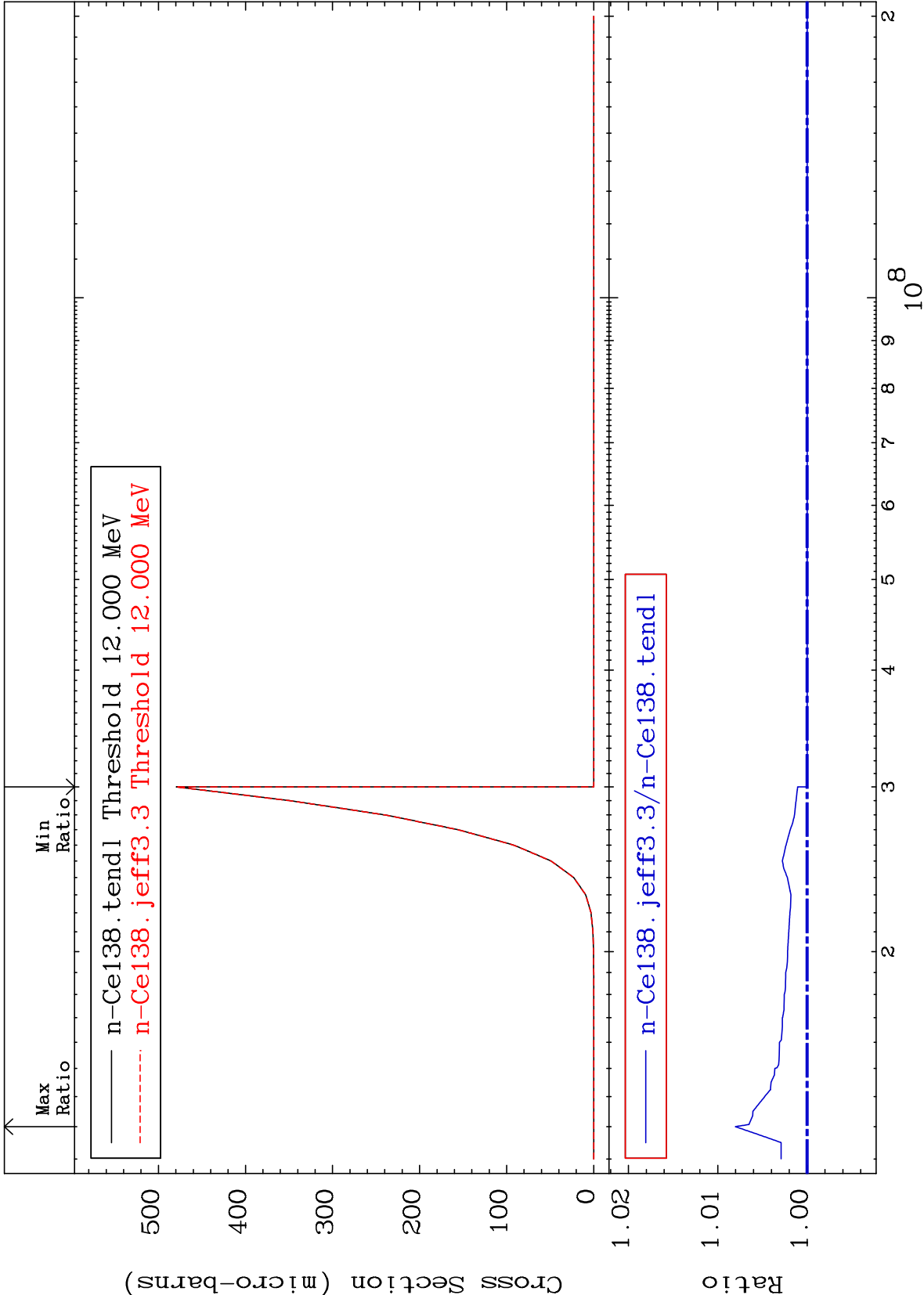


90

Incident Energy (eV)

58-Ce-138

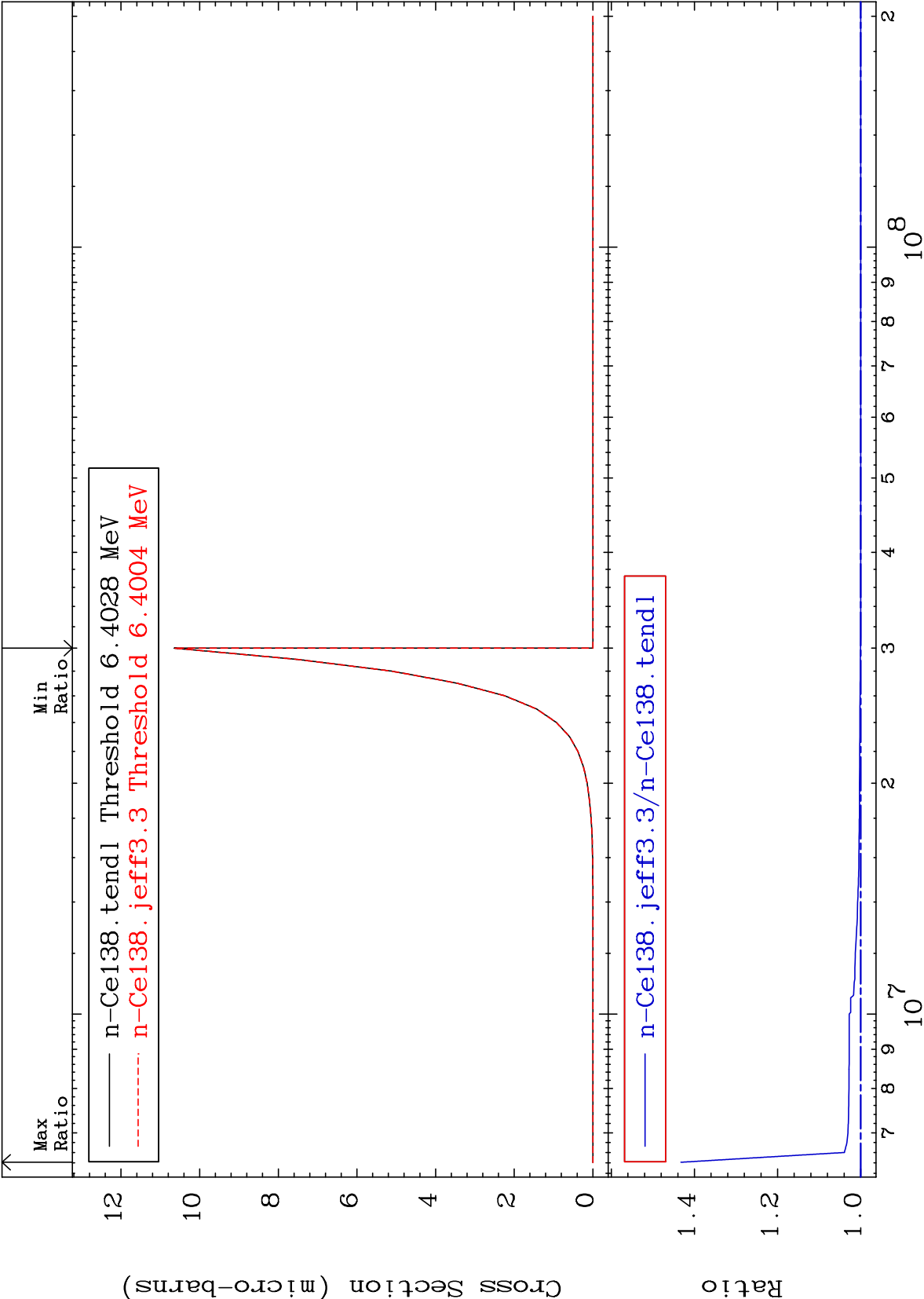
Radionuclide Production Cross Section 0.000 To 0.804 %



MAT 5831

(n,2p):56-Ba-137g
Radionuclide Production Cross Section 0.000 To 43.26 %

58-Ce-138

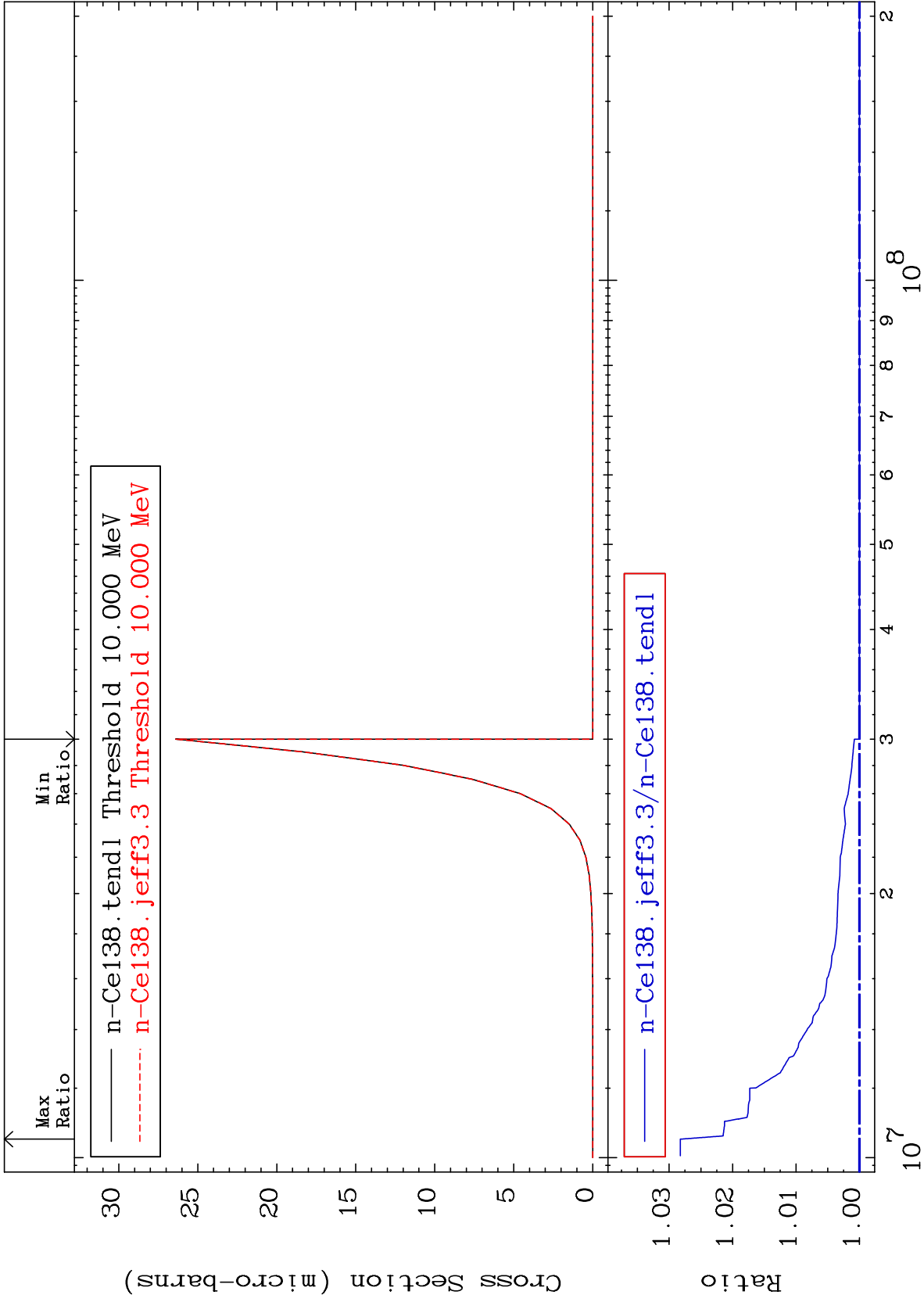


MAT 5831

(n,2p):56-Ba-137m2

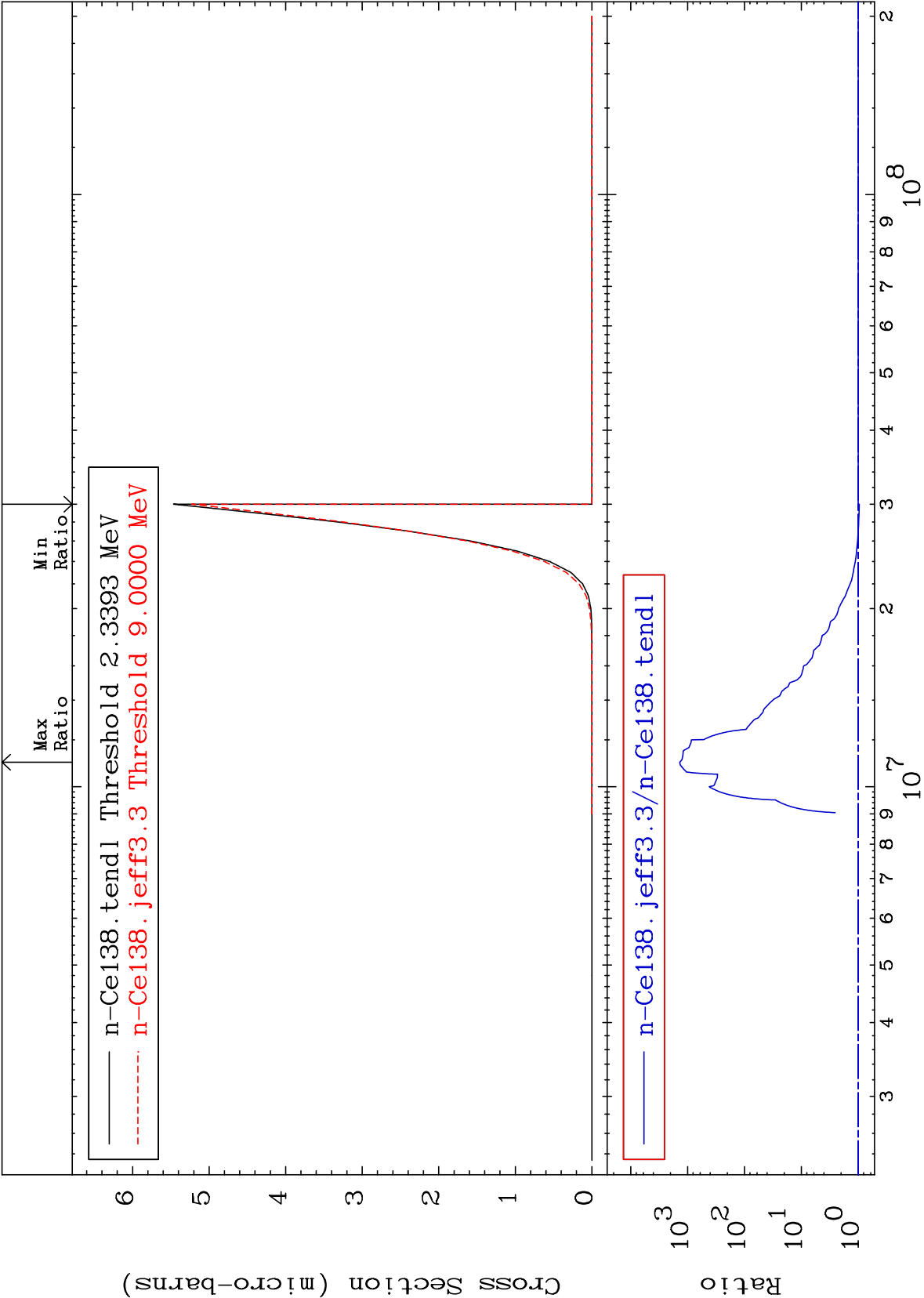
58-Ce-138

Radionuclide Production Cross Section 0.000 To 2.823 %



— n-Ce138.tendl Threshold 10.000 MeV
- - - n-Ce138.jeff3.3 Threshold 10.000 MeV

— n-Ce138.jeff3.3/n-Ce138.tendl



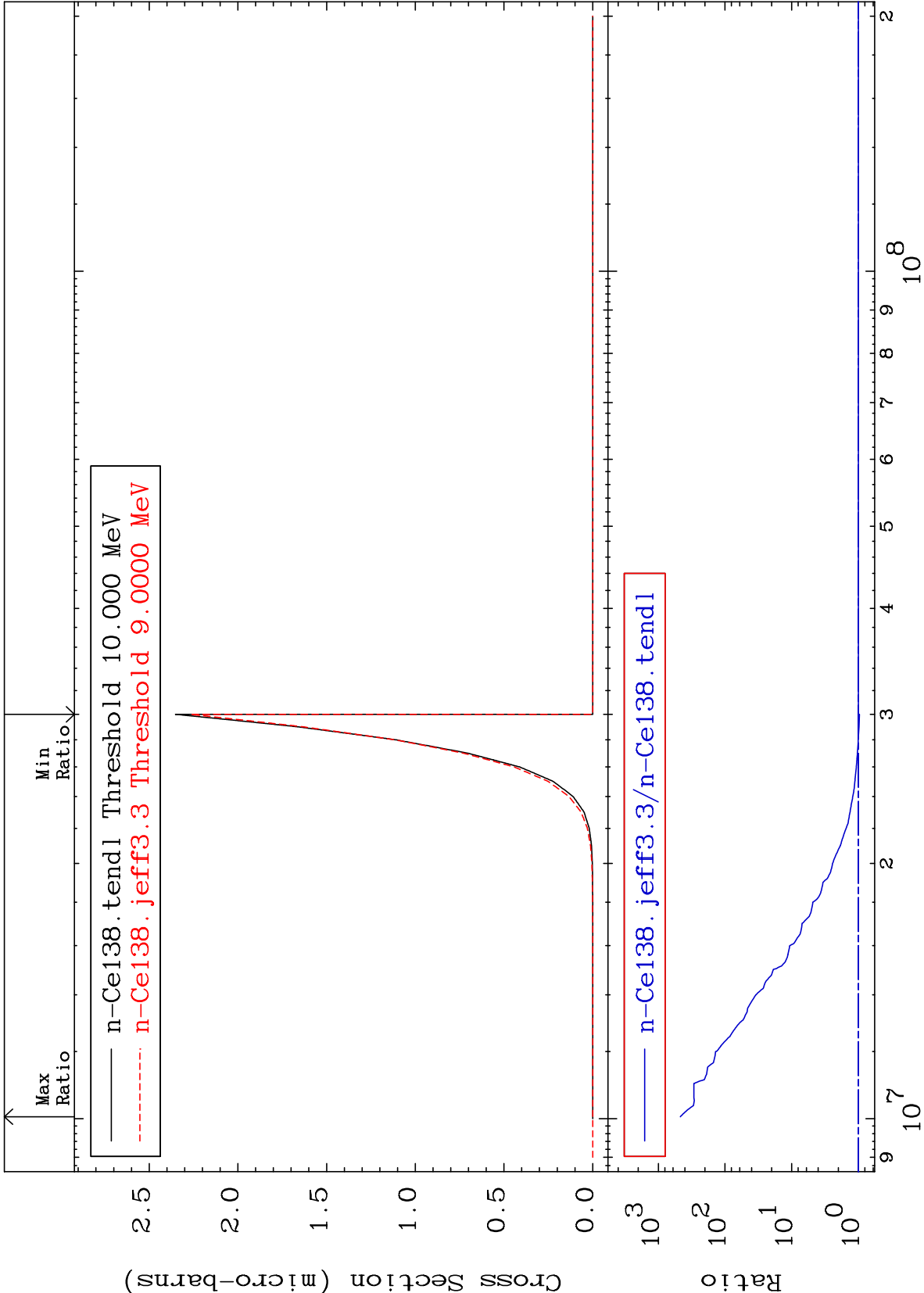
MAT 5831

(n,p) α :55-Cs-134m3

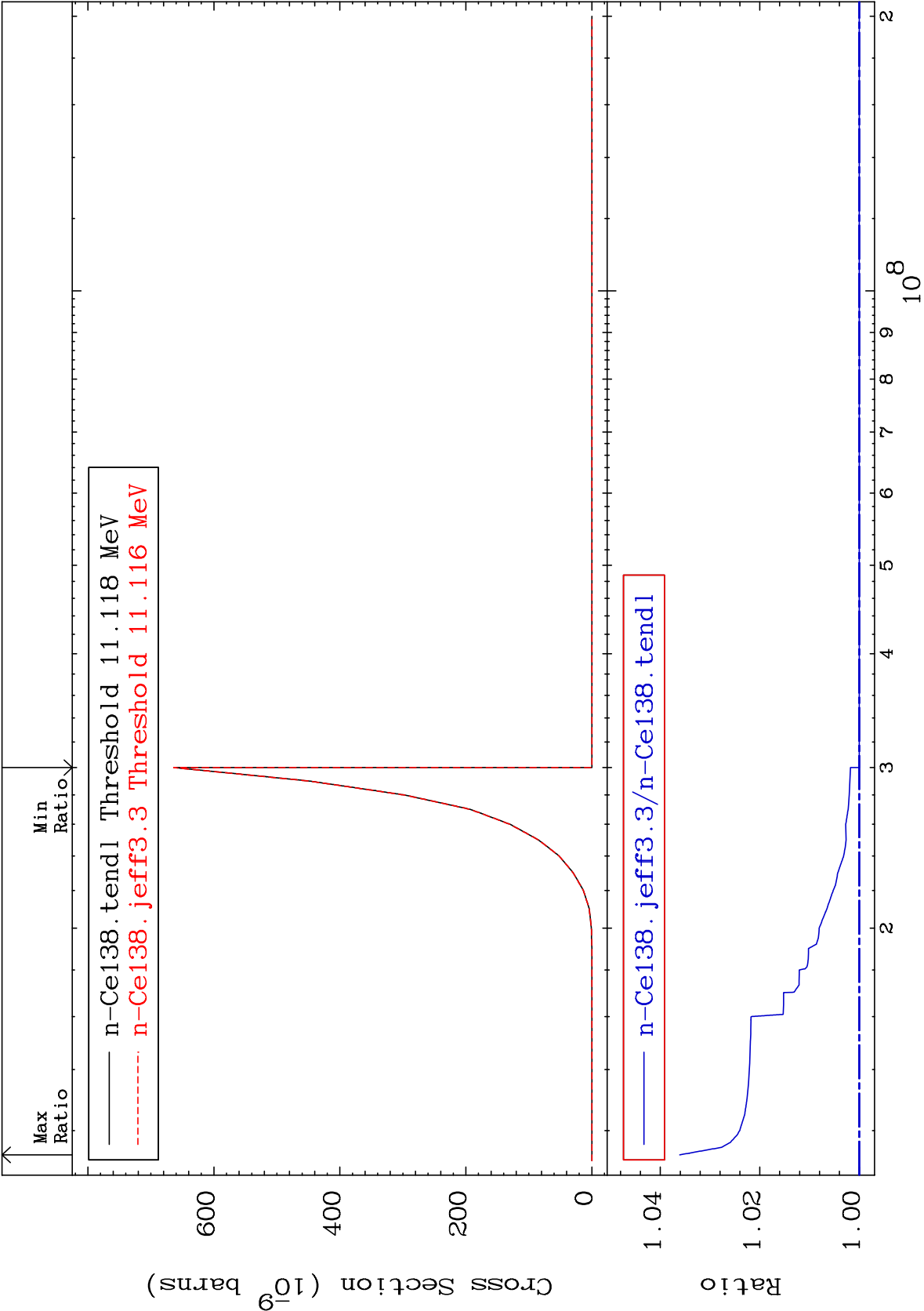
58-Ce-138

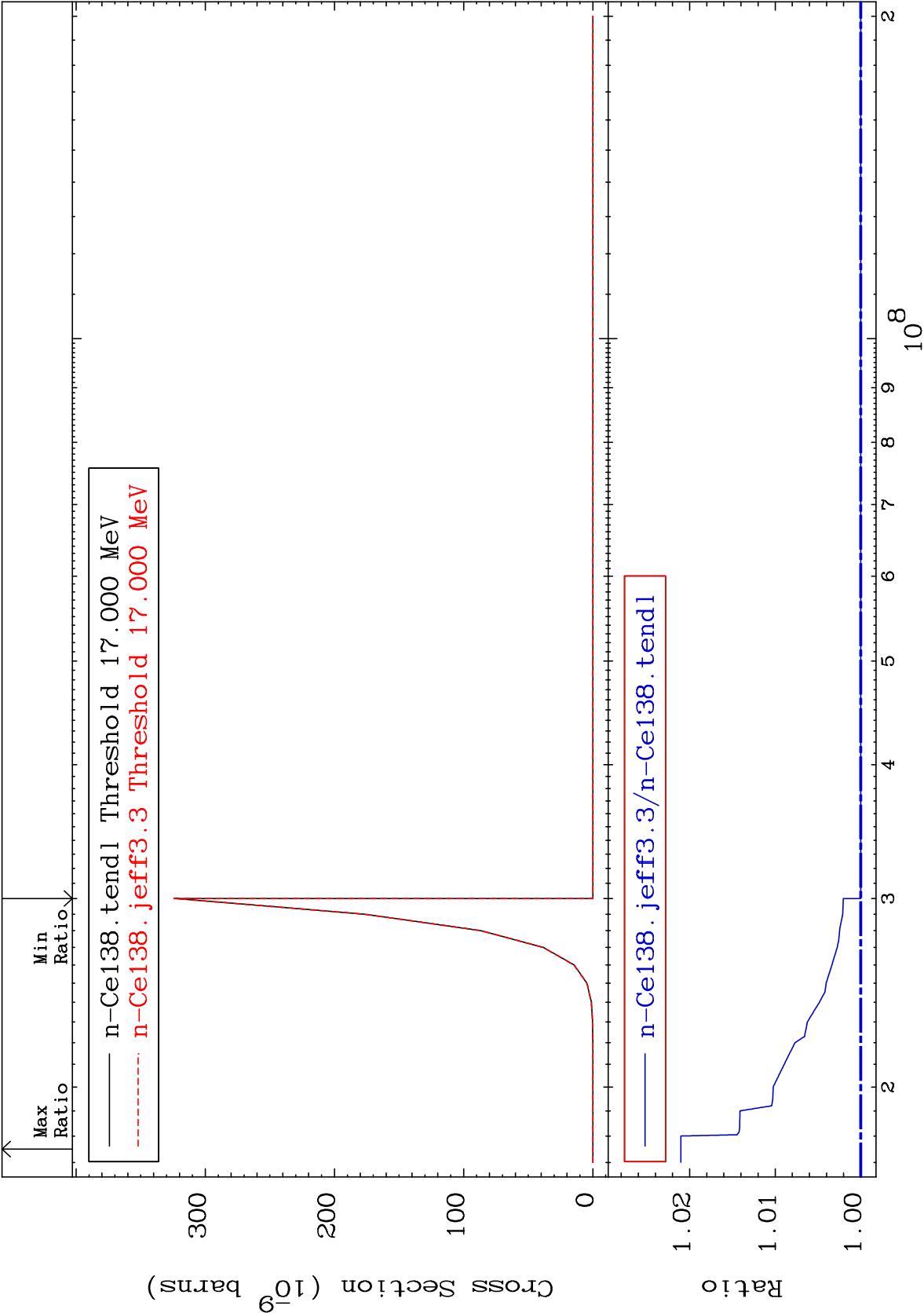
Radionuclide Production Cross Section

-3.551 To 9999. %

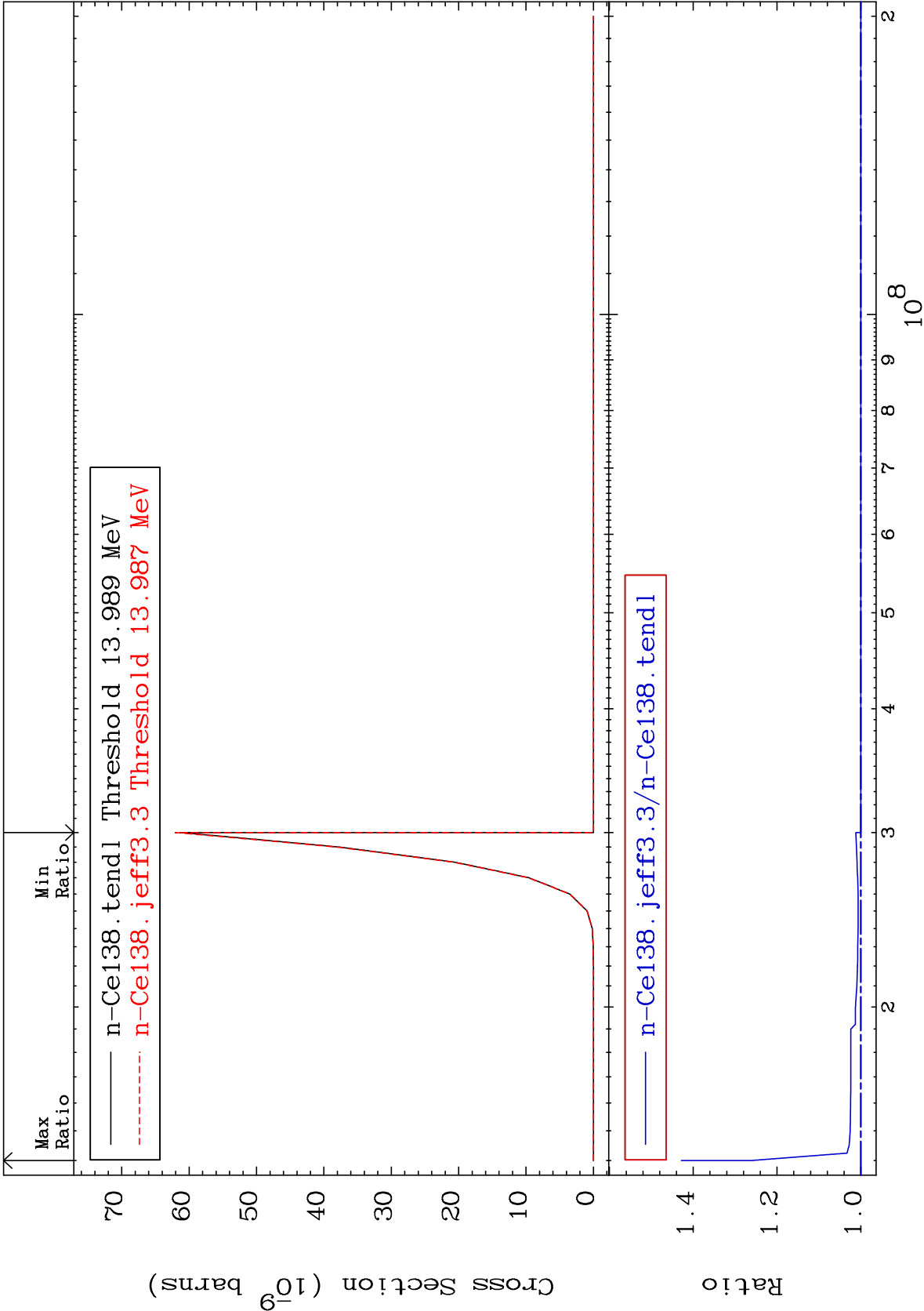


Radionuclide Production Cross Section 0.000 To 3.610 %





Radionuclide Production Cross Section 0.000 To 42.85 %



Radionuclide Production Cross Section

-0.078 To 3.521 %

