

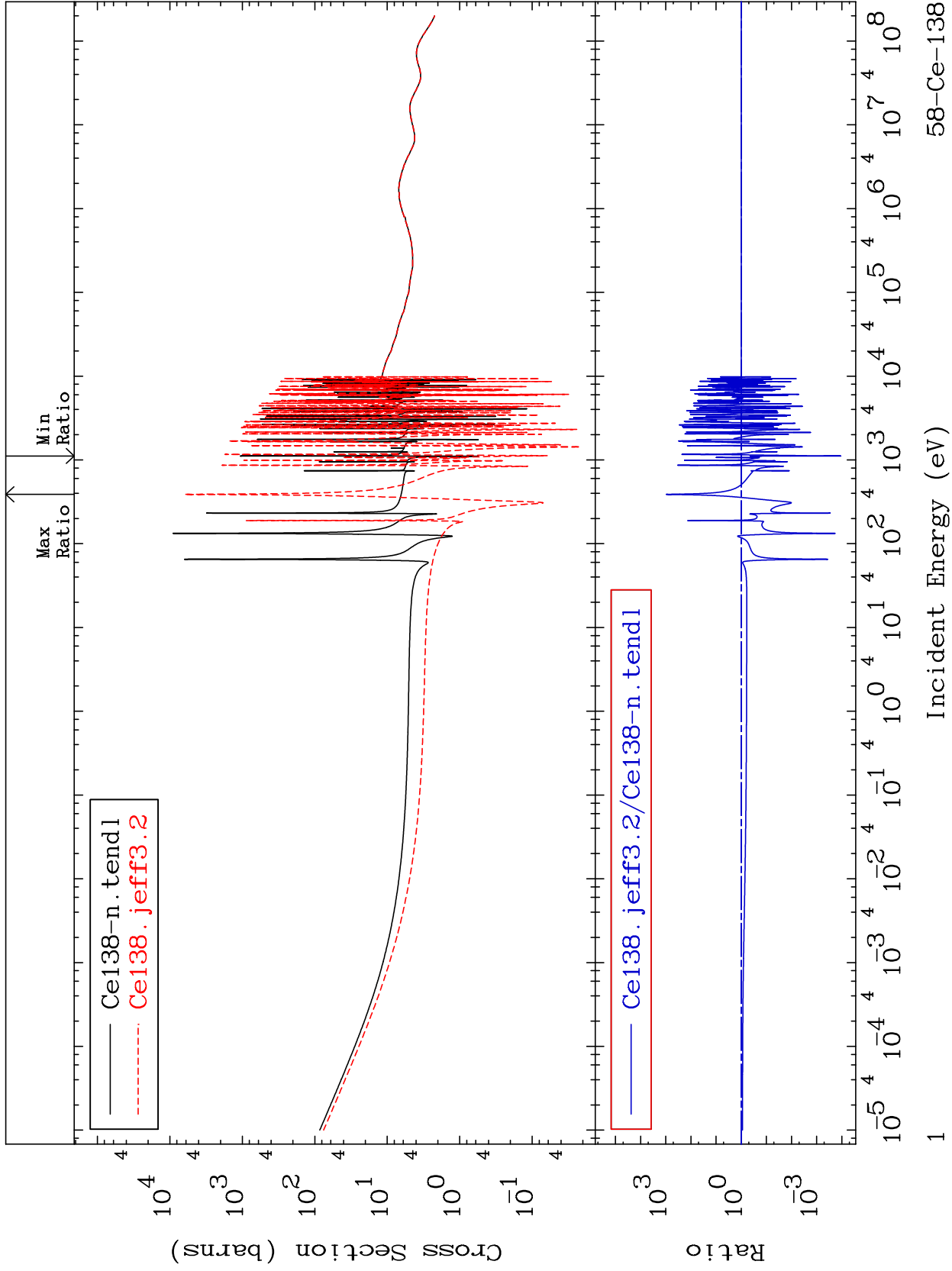
MAT 5831

Total

58-Ce-138

Cross Section

-99.99 To 9999. %



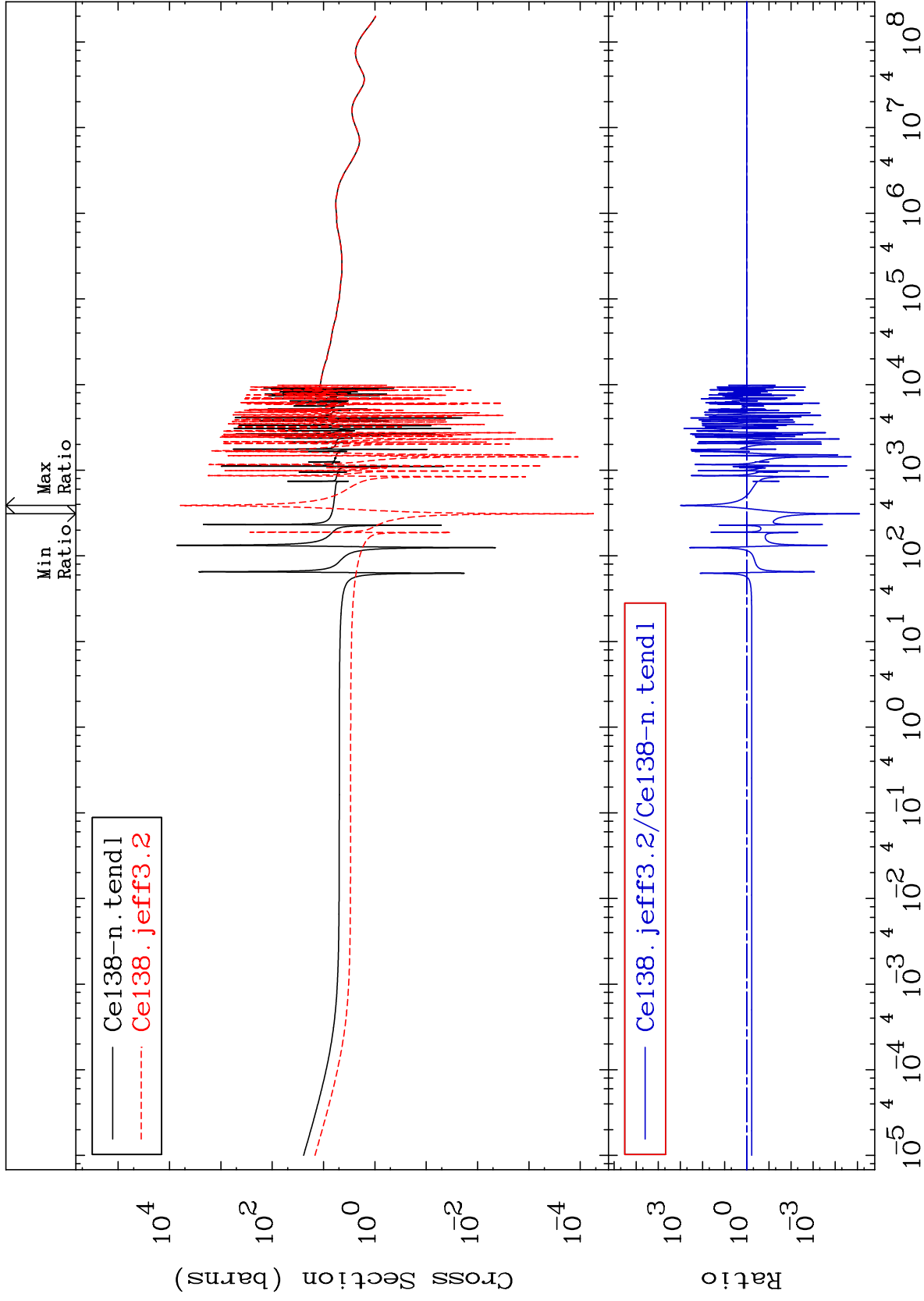
Incident Energy (eV)

58-Ce-138

MAT 5831

Elastic
Cross Section

58-Ce-138
-100.0 To 9999. %



2

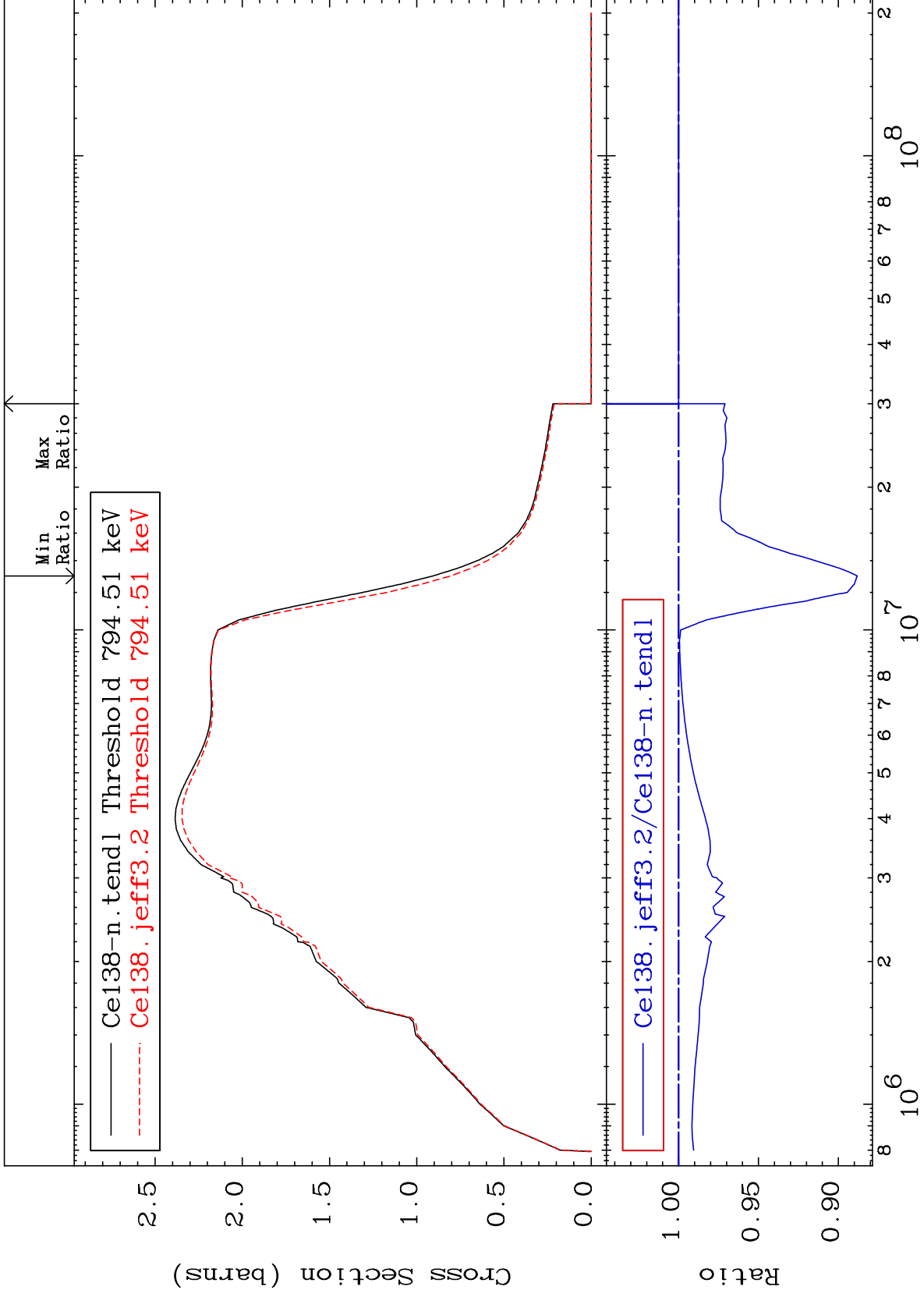
Incident Energy (eV)

58-Ce-138

MAT 5831

Inelastic
Cross Section

58-Ce-138
-11.18 To 0.000 %



3

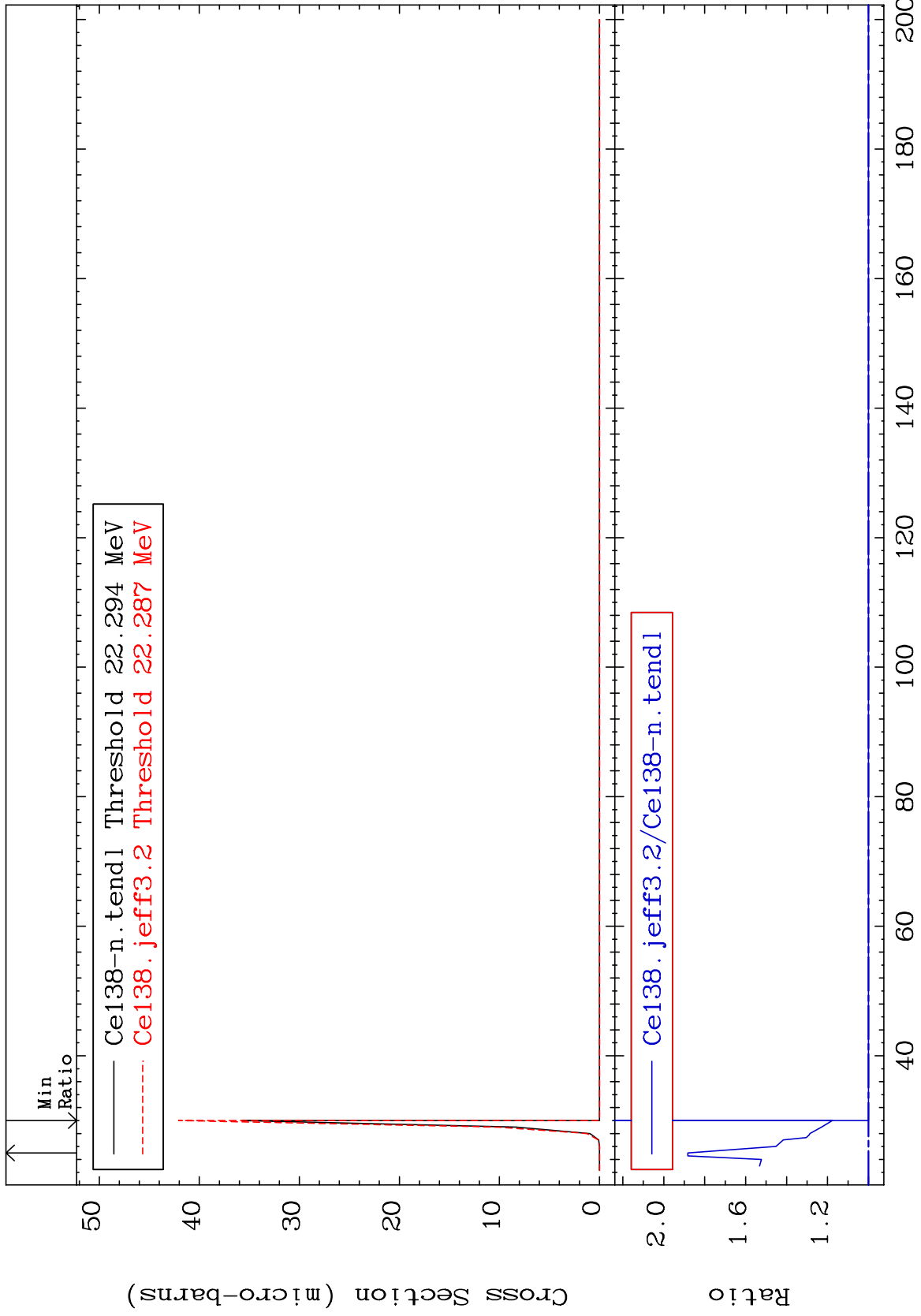
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,2n) d
Cross Section

58-Ce-138
0.000 To 88.24 %



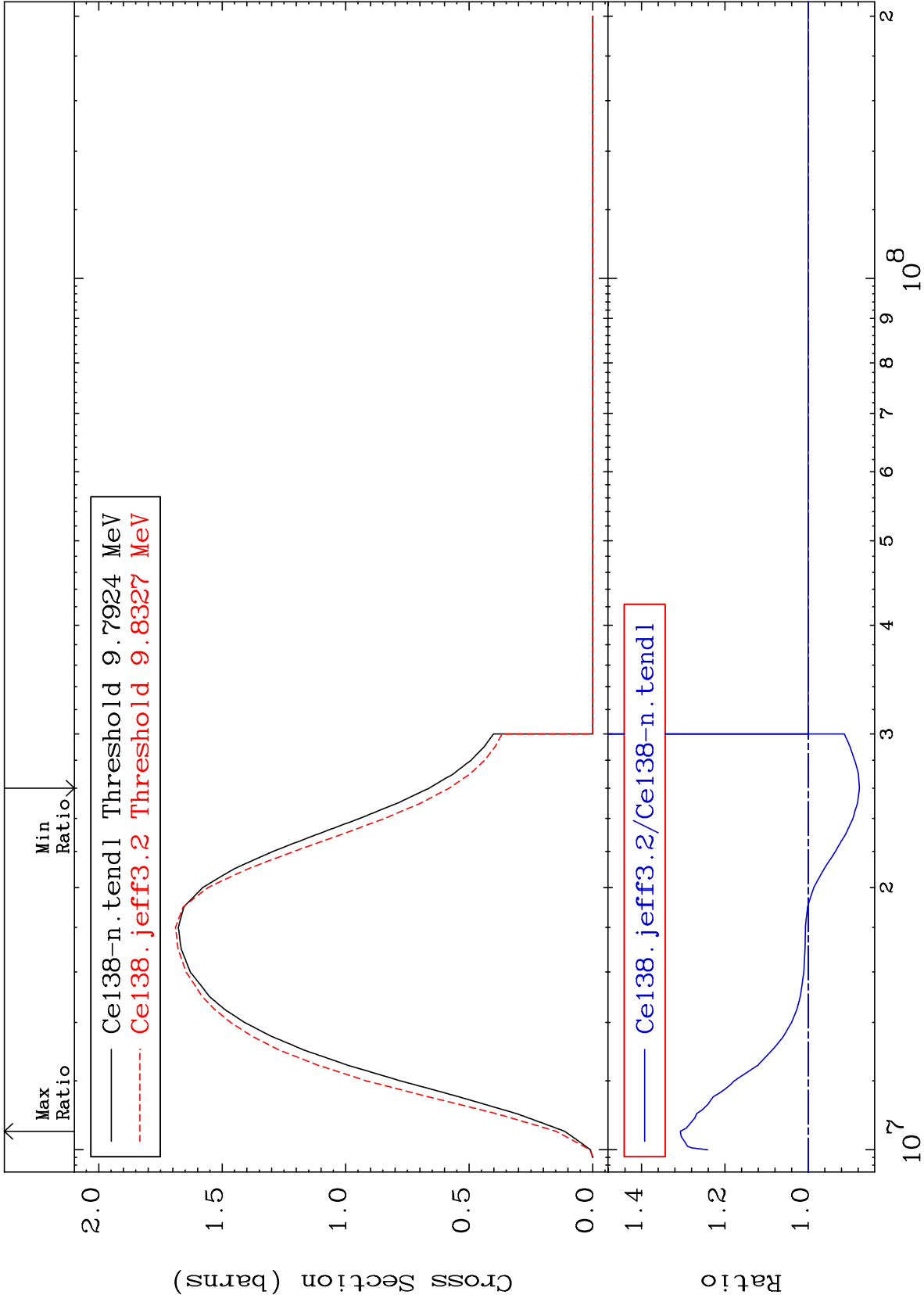
MAT 5831

(n,2n)

58-Ce-138

Cross Section

-12.30 To 30.70 %



58-Ce-138

58-Ce-138

MAT 5831

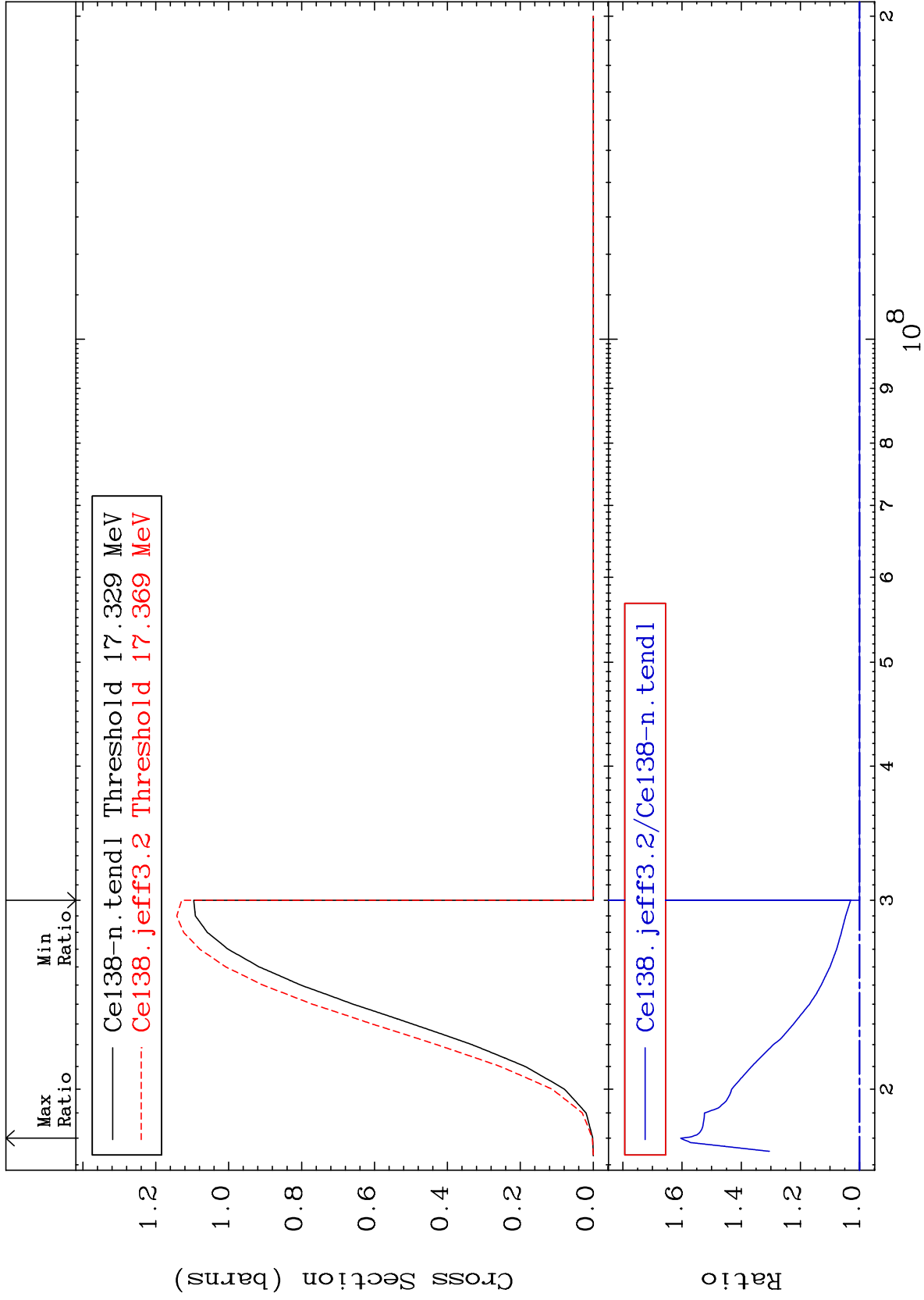
(n,3n)

58-Ce-138

Cross Section

0.000

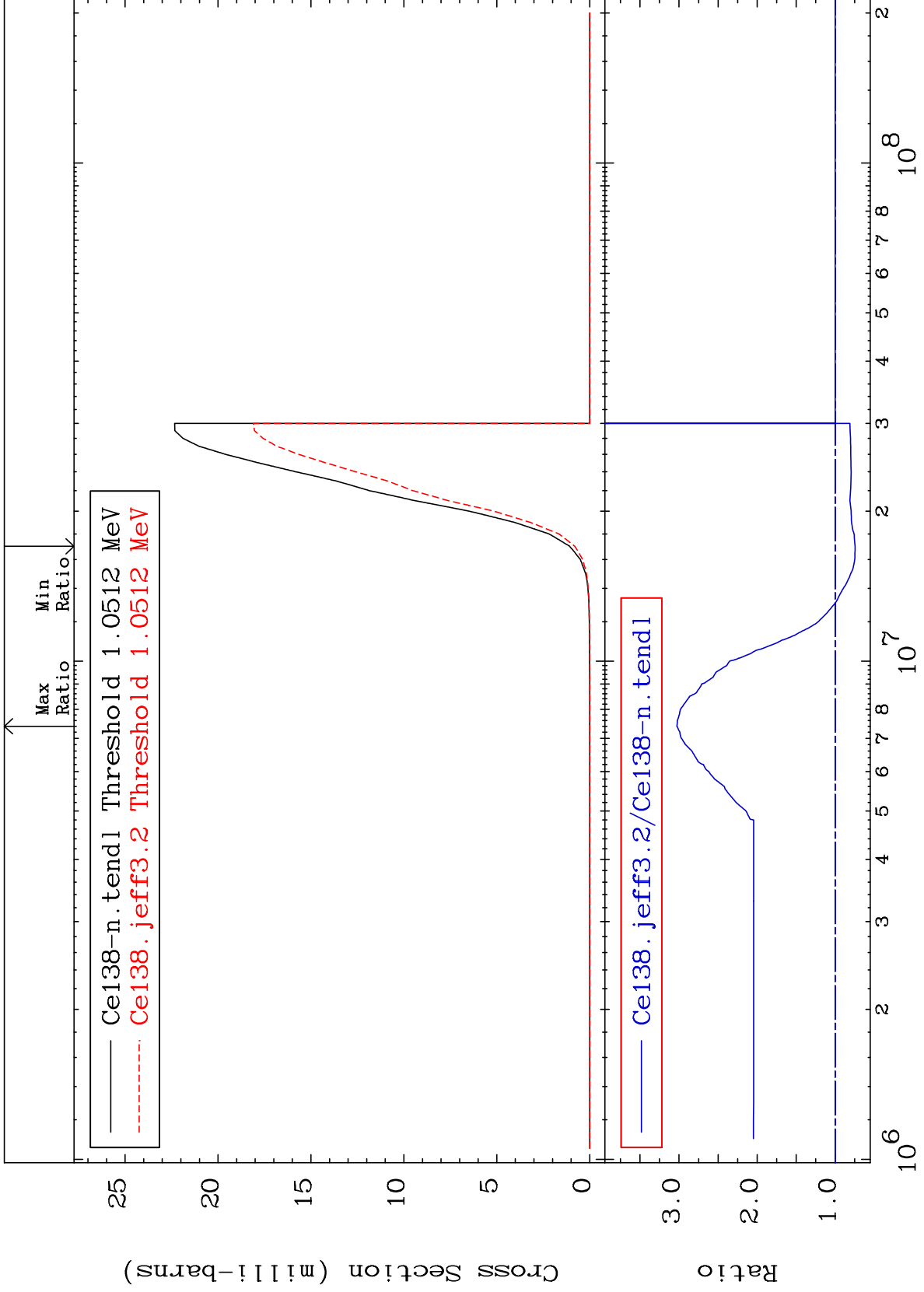
To 60.43 %



MAT 5831

(n, n') α
Cross Section

58-Ce-138
-25.55 To 202.7 %



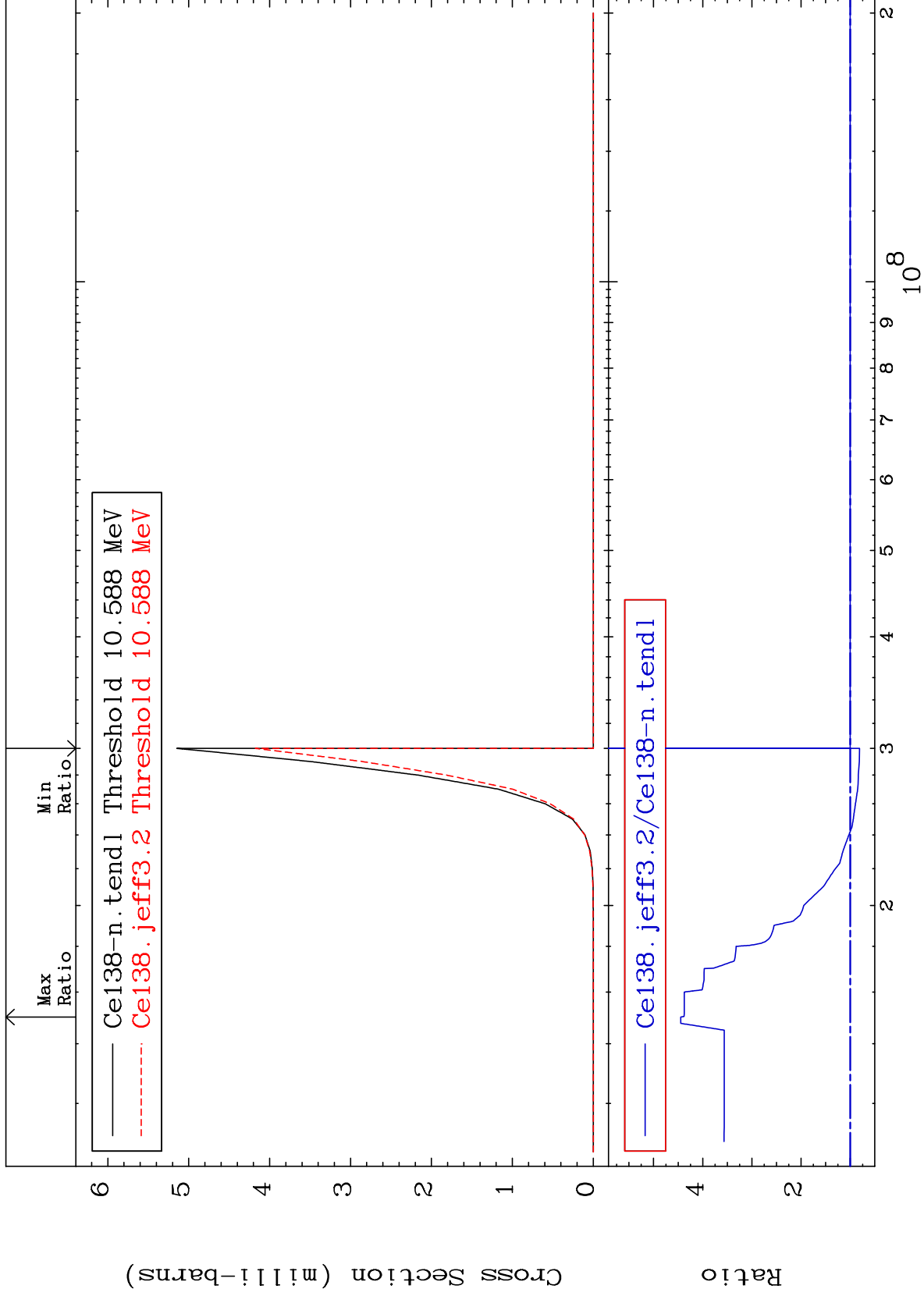
Incident Energy (eV)

58-Ce-138

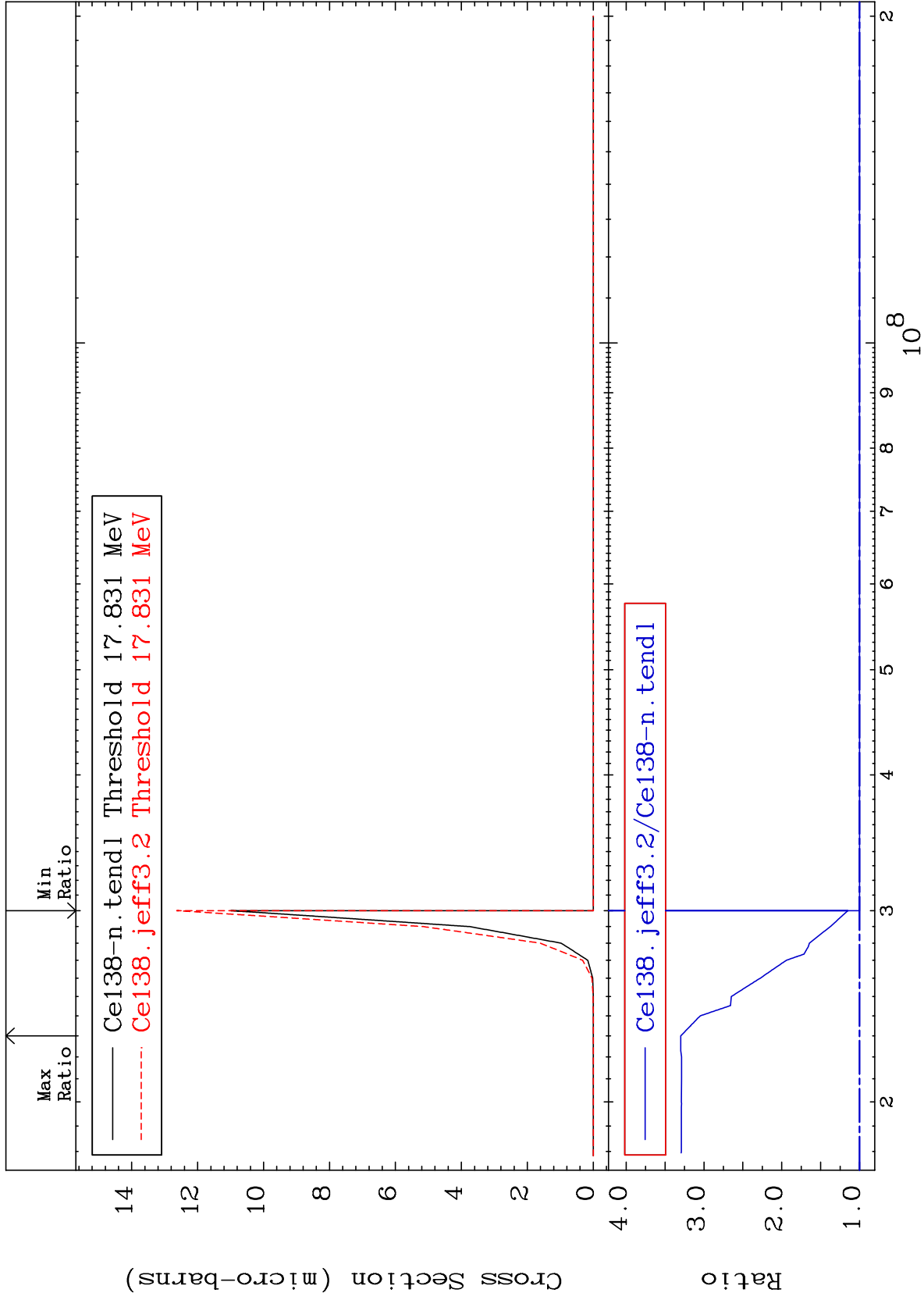
MAT 5831

(n,2n) α
Cross Section

58-Ce-138
-18.85 To 344.7 %



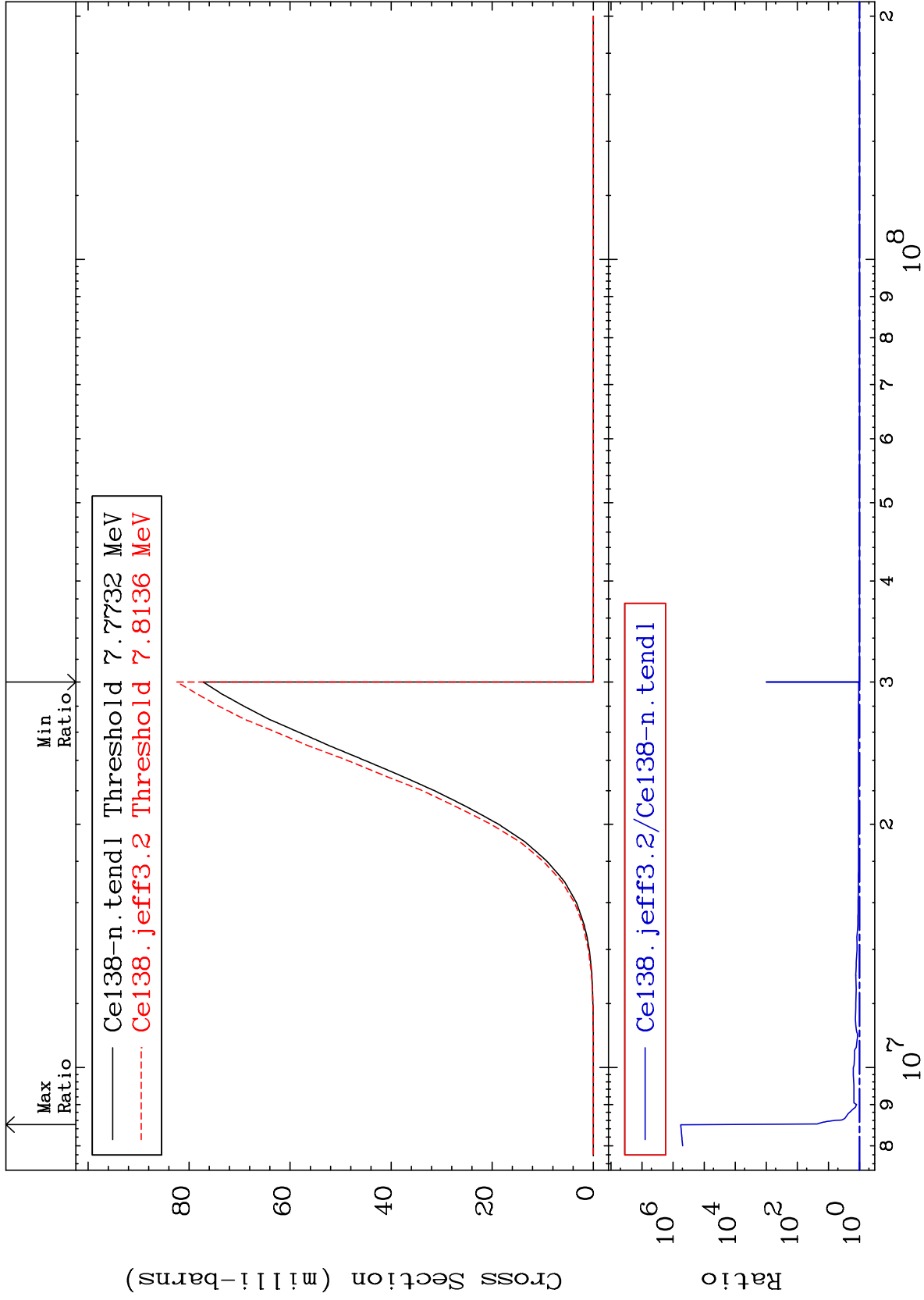
MAT 5831 $(n,3n) \alpha$ Cross Section 58-Ce-138 To 229.8 %



MAT 5831

(n,n') p
Cross Section

58-Ce-138
To 9999. %
0.000



58-Ce-138

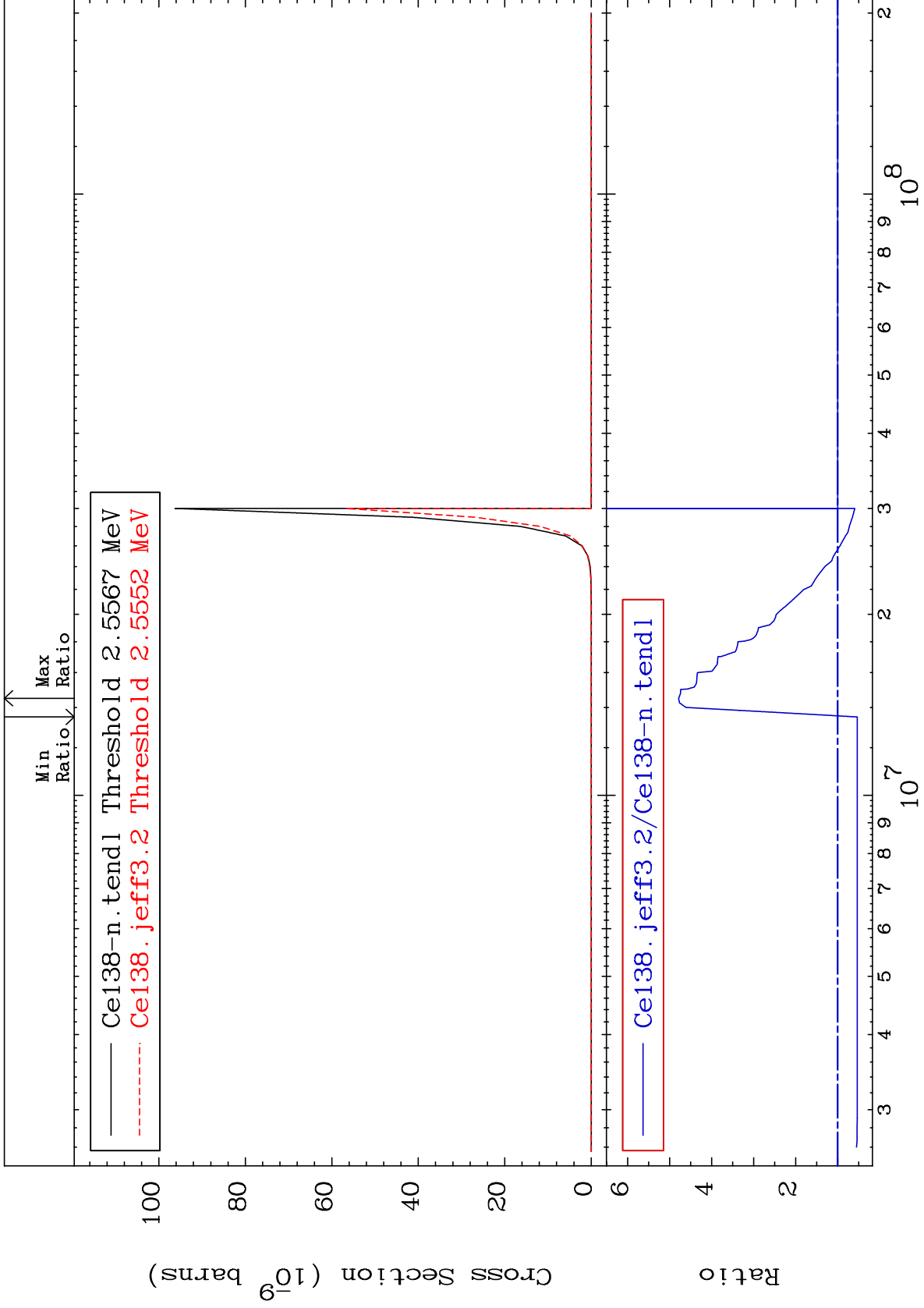
Incident Energy (eV)

10

MAT 5831

(n, n') 2α
Cross Section

58-Ce-138
-46.77 To 378.6 %



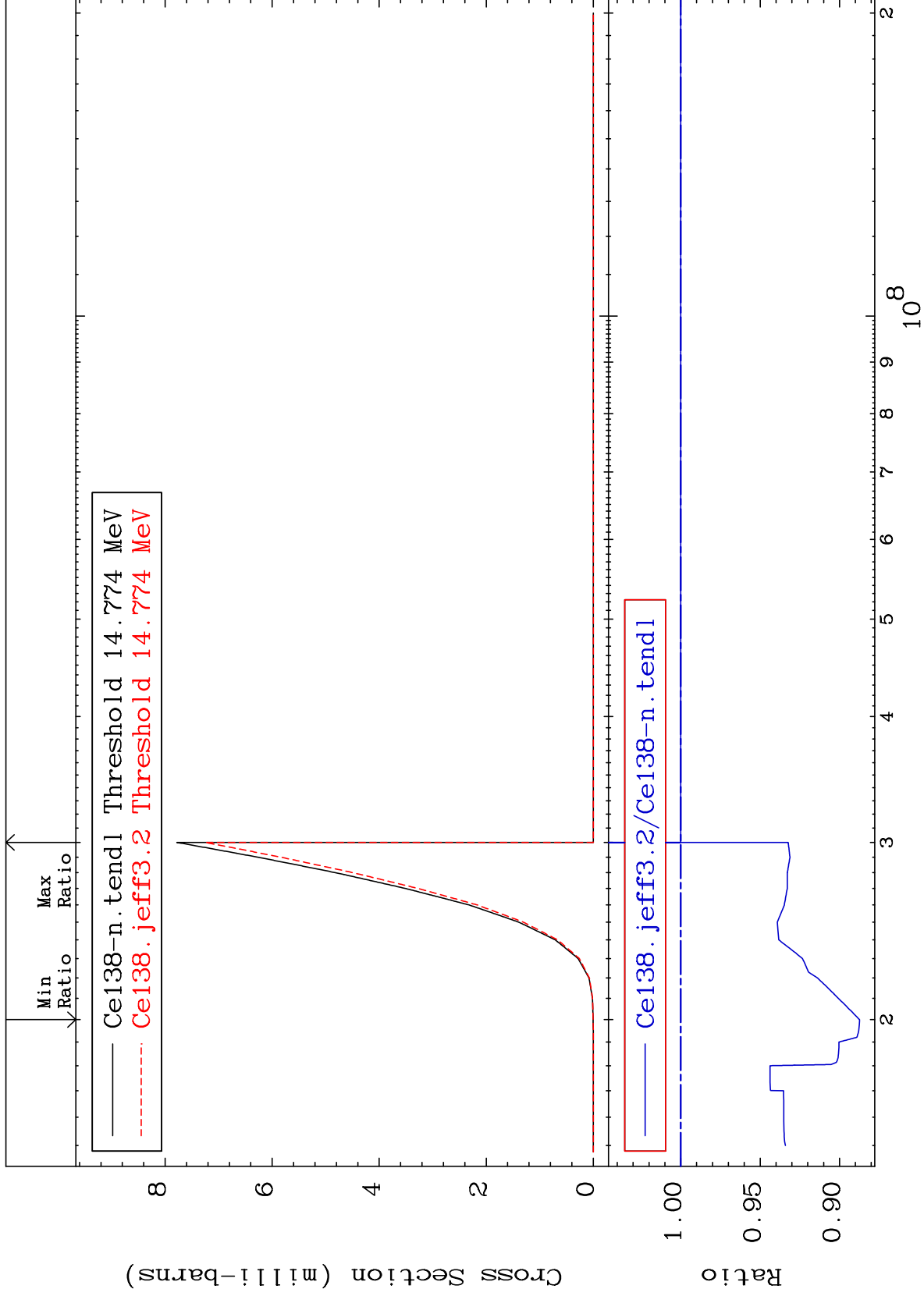
MAT 5831

(n, n') d

58-Ce-138

Cross Section

-11.26 To 0.000 %



12

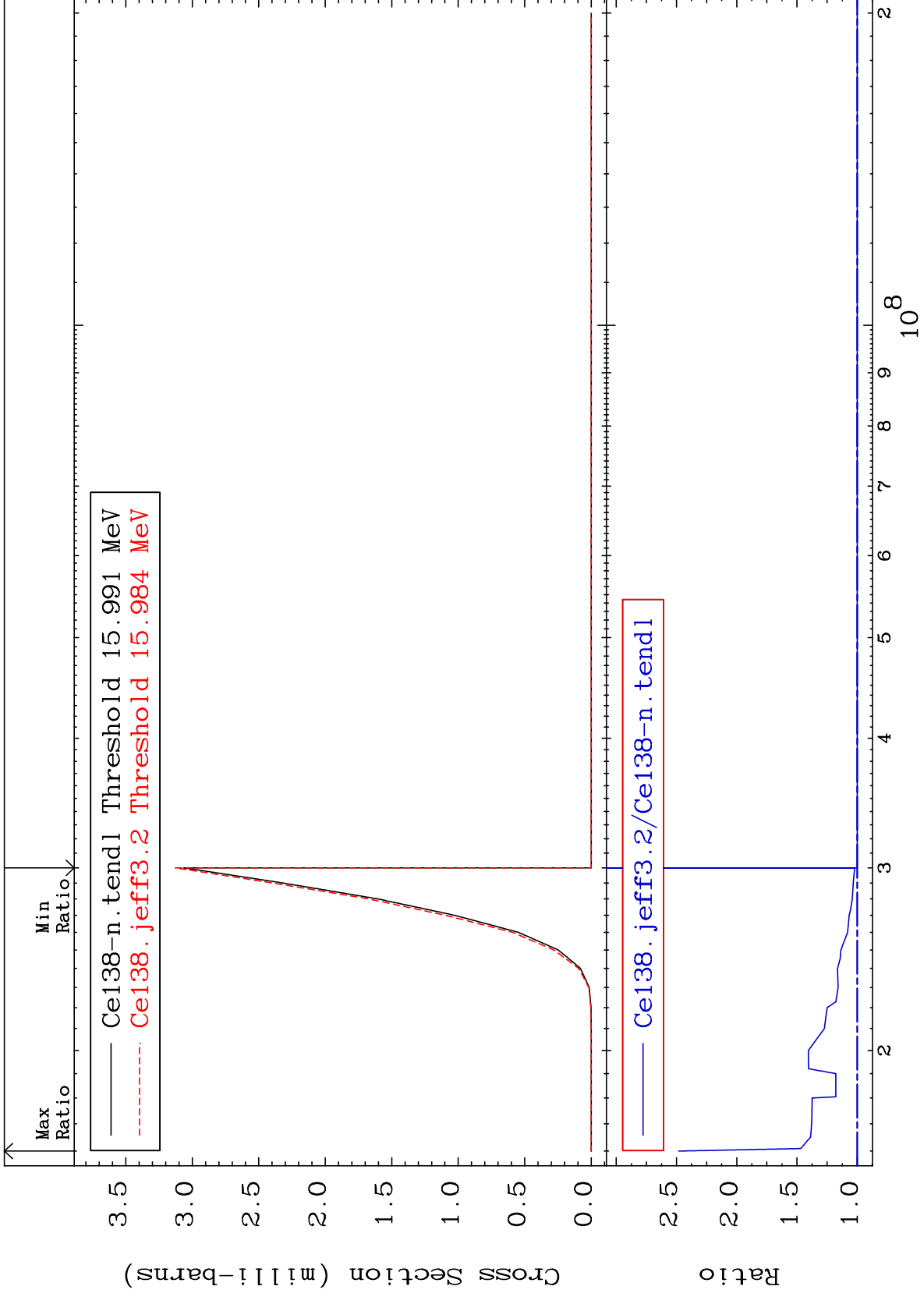
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,n') t
Cross Section

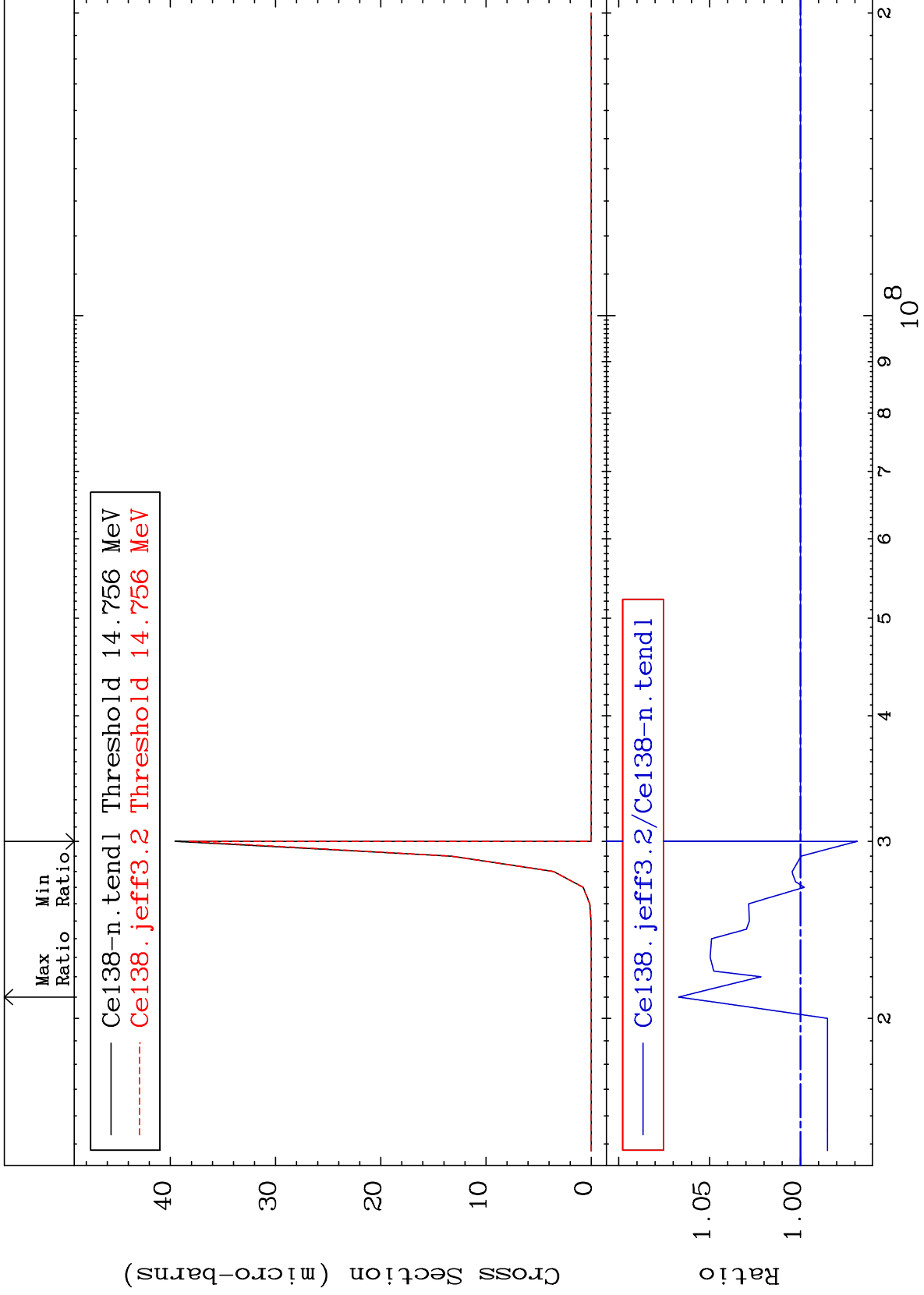
58-Ce-138
To 148.2 %



MAT 5831

(n, n') He-3
Cross Section

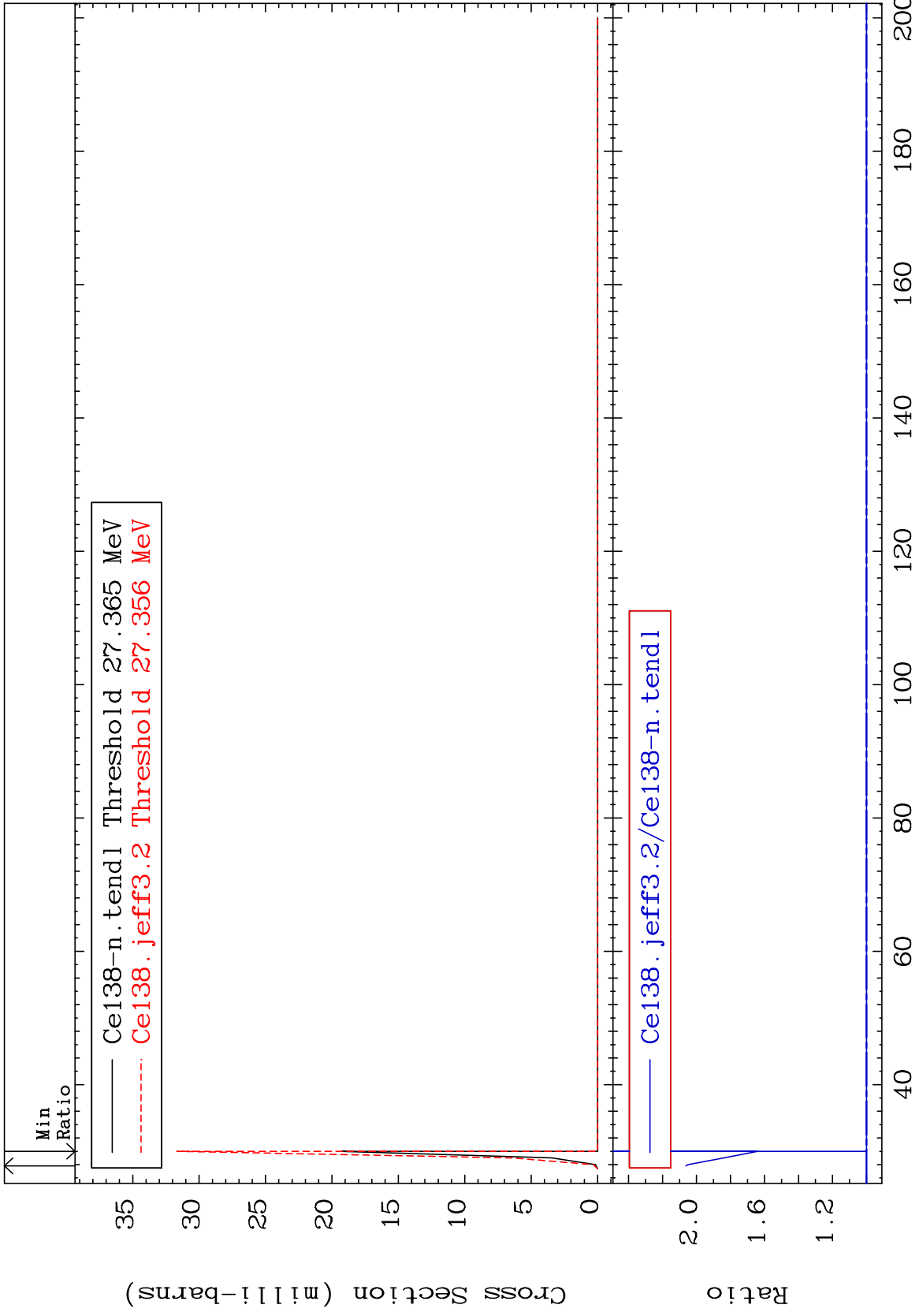
58-Ce-138
-3.129 To 6.704 %



MAT 5831

(n,4n)
Cross Section

58-Ce-138
To 106.2 %



15

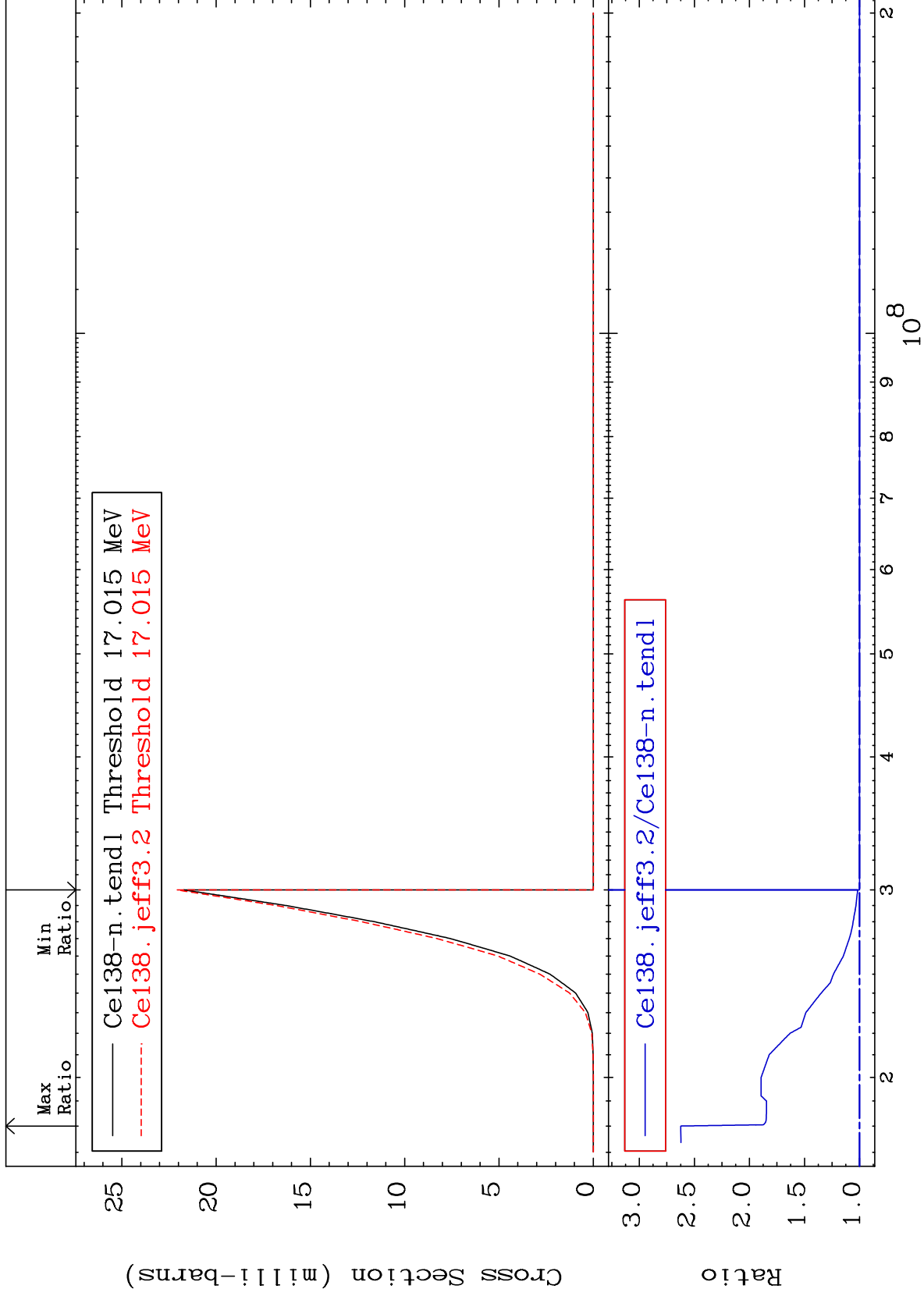
Incident Energy (MeV)

58-Ce-138

MAT 5831

(n,2n) p
Cross Section

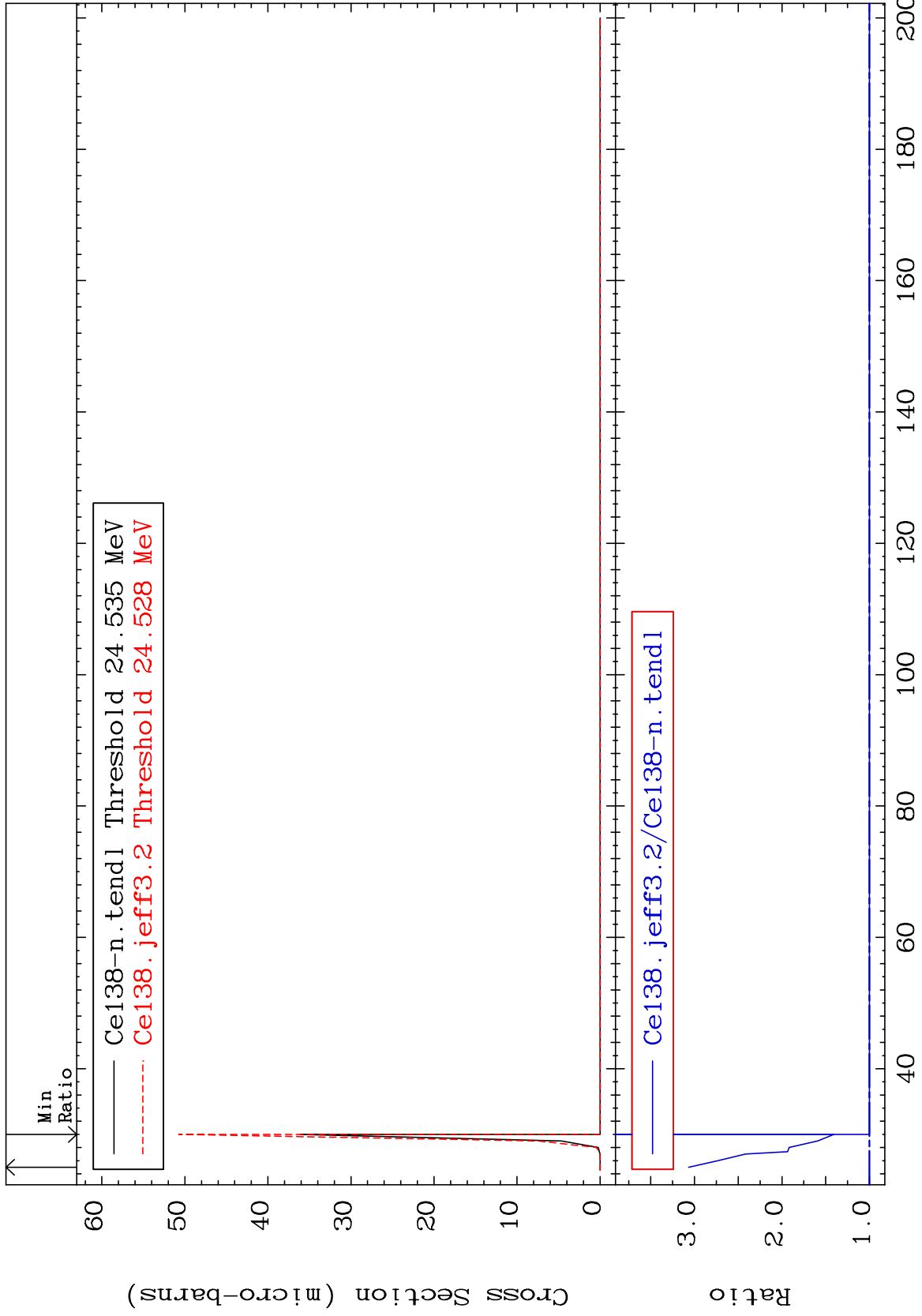
58-Ce-138
0.000 To 162.4 %



MAT 5831

(n,3n) p
Cross Section

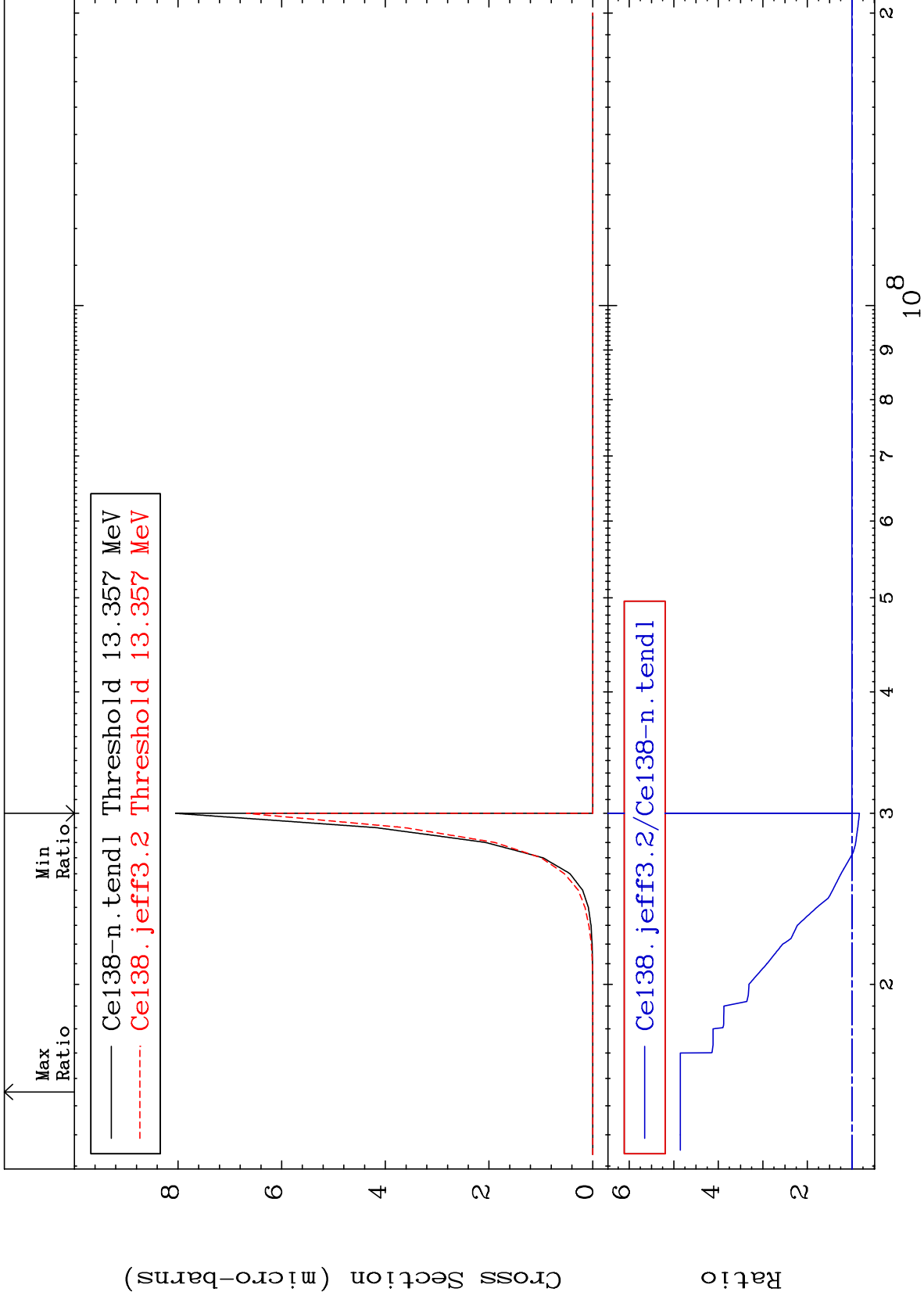
58-Ce-138
0.000 To 206.7 %



MAT 5831

(n,2n) p
Cross Section

58-Ce-138
-16.98 To 385.2 %



18

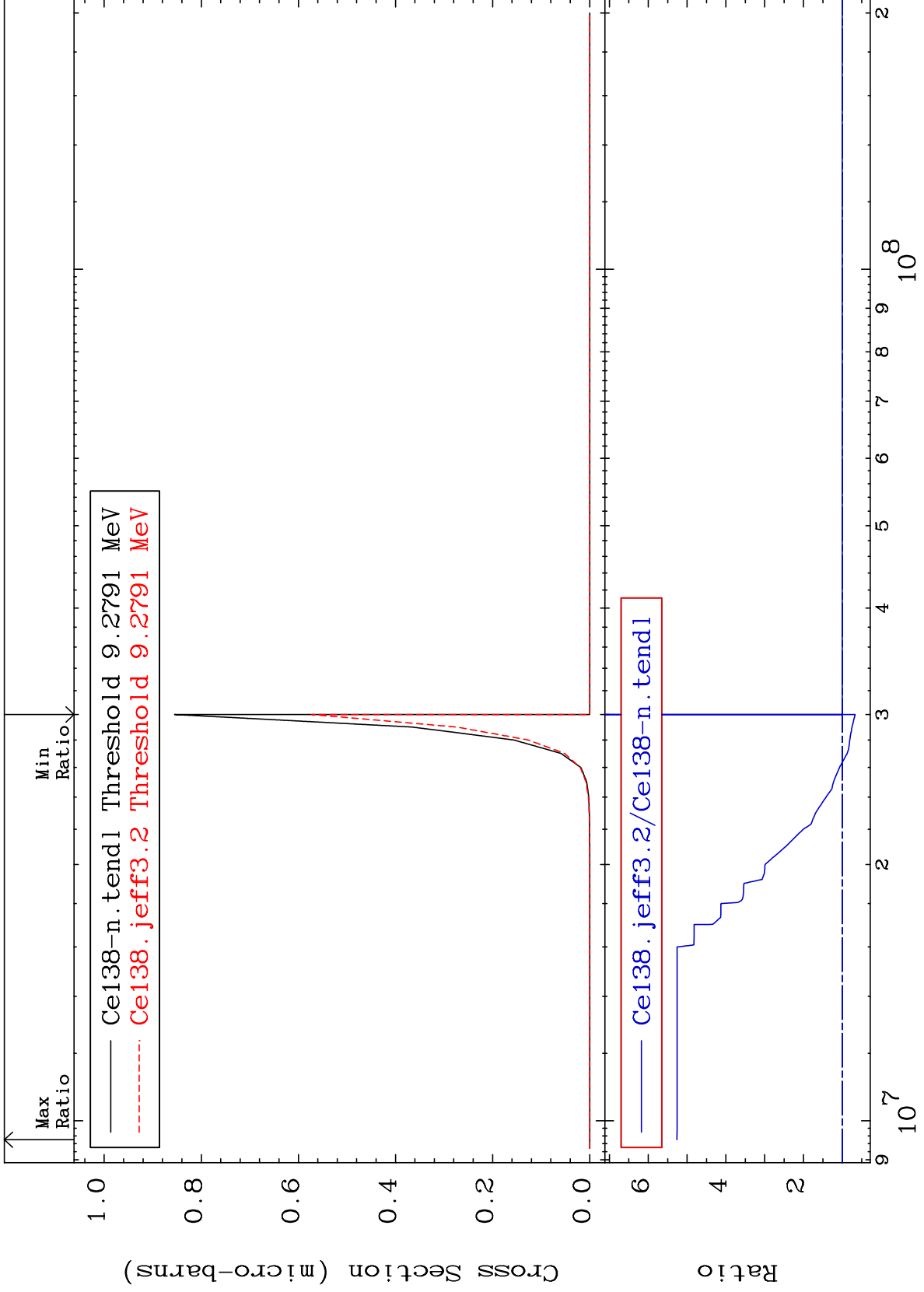
58-Ce-138

58-Ce-138

MAT 5831

(n,n') p α
Cross Section

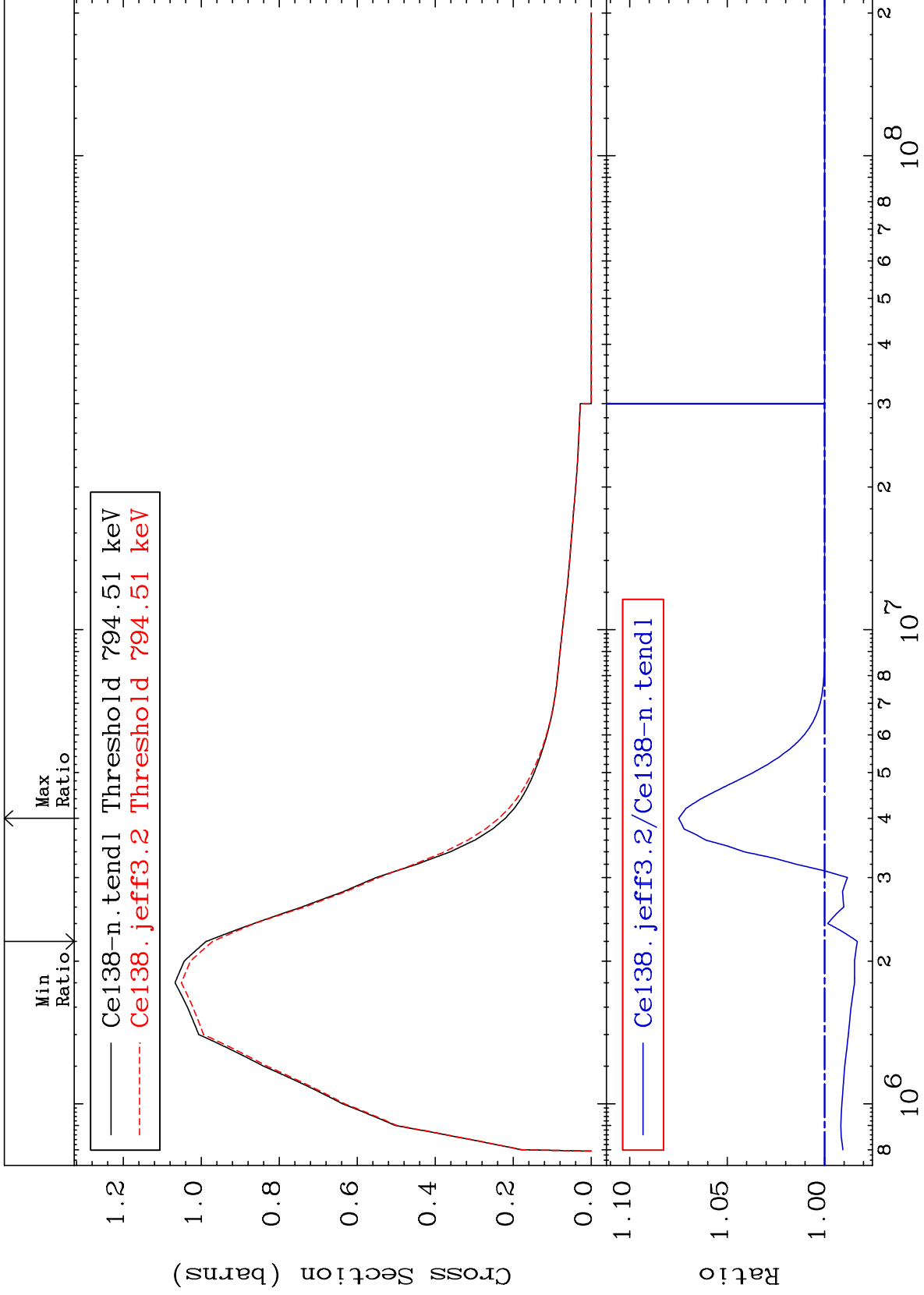
58-Ce-138
-33.03 To 426.1 %



MAT 5831

788.7 keV (n,n') Level
Cross Section

58-Ce-138
-1.676 To 7.493 %



20

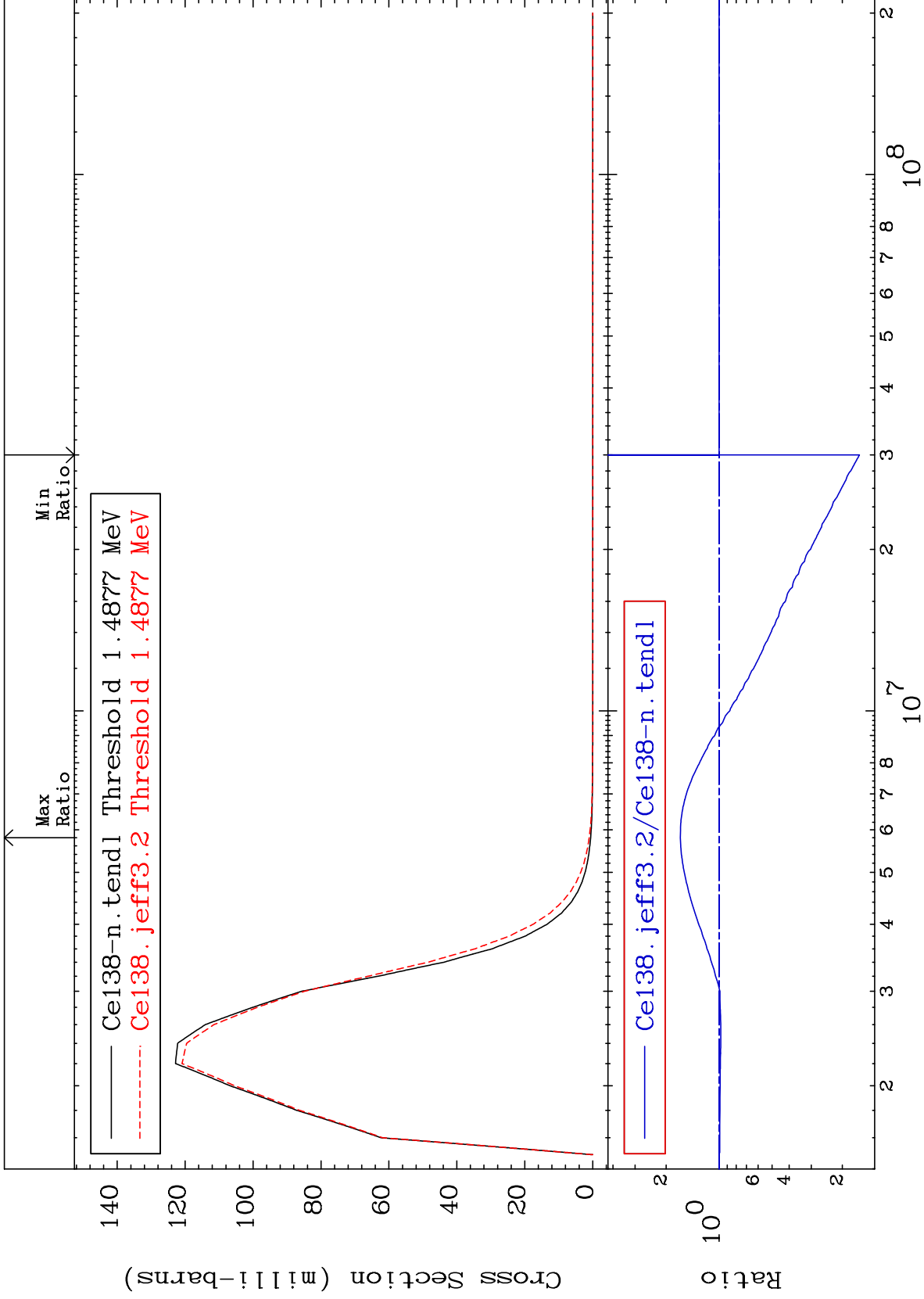
Incident Energy (eV)

58-Ce-138

MAT 5831

1.477 MeV (n,n') Level
Cross Section

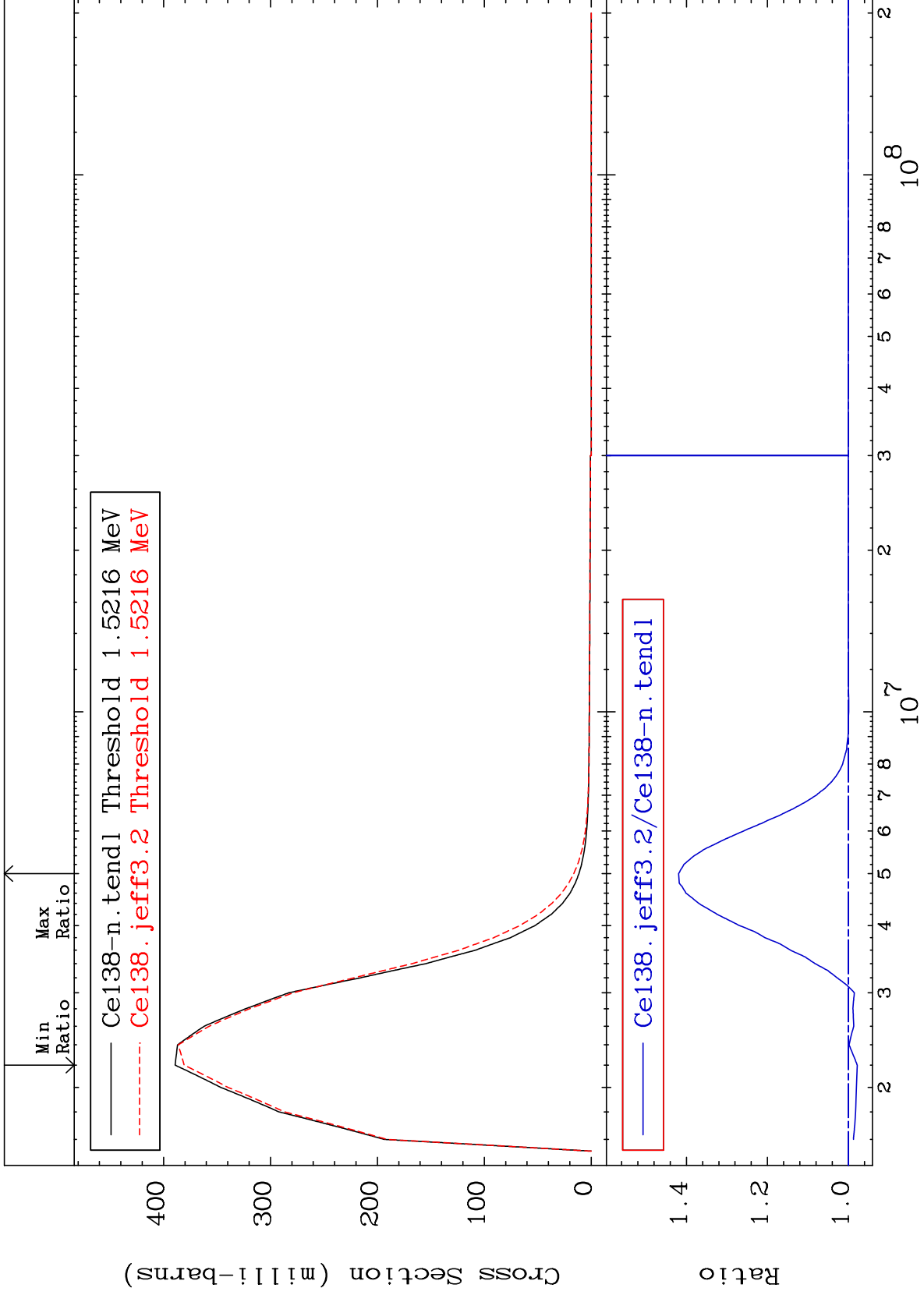
58-Ce-138
-84.03 To 65.90 %



MAT 5831

1.511 MeV (n,n') Level
Cross Section

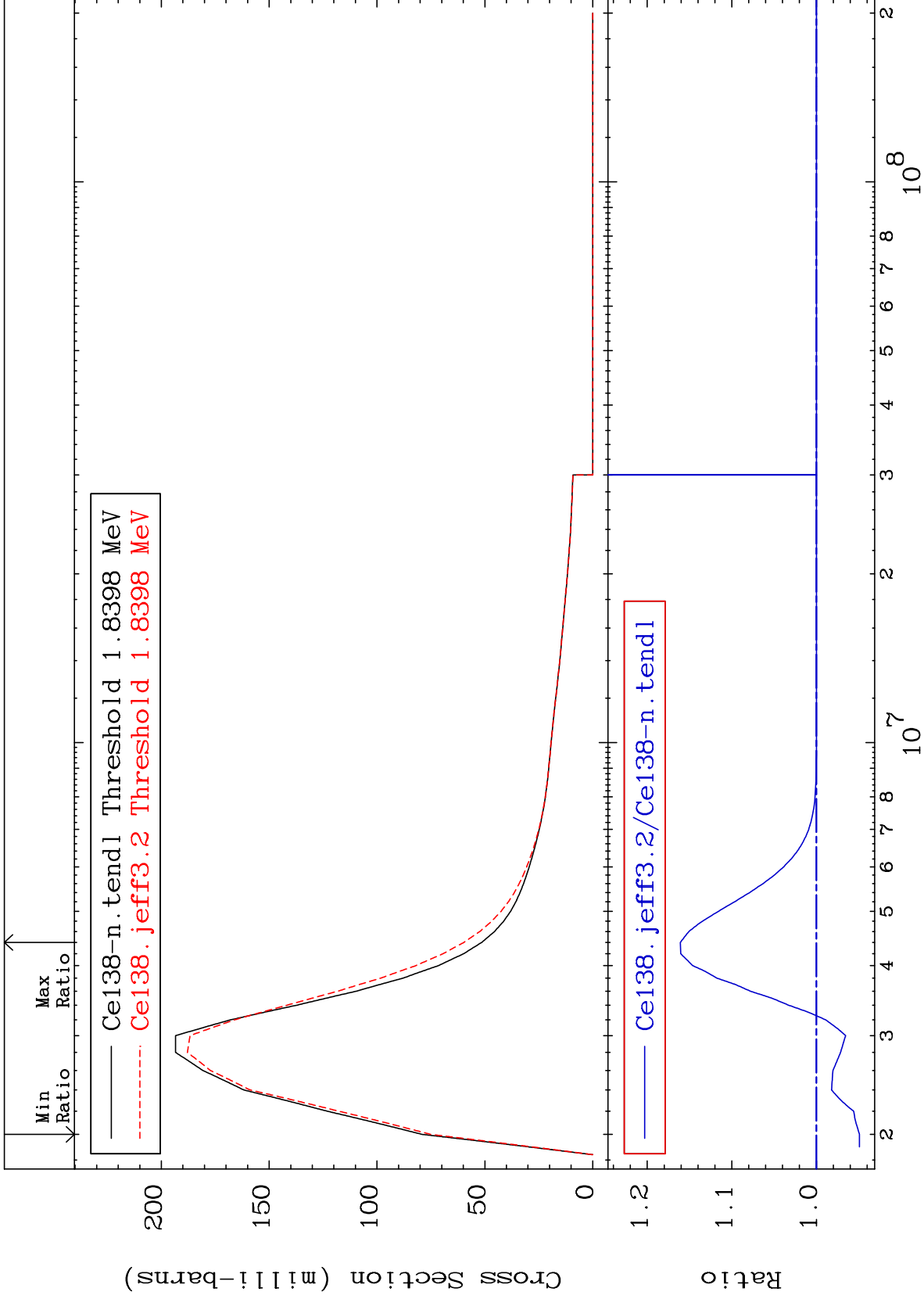
58-Ce-138
-2.192 To 41.93 %



MAT 5831

1.826 MeV (n,n') Level
Cross Section

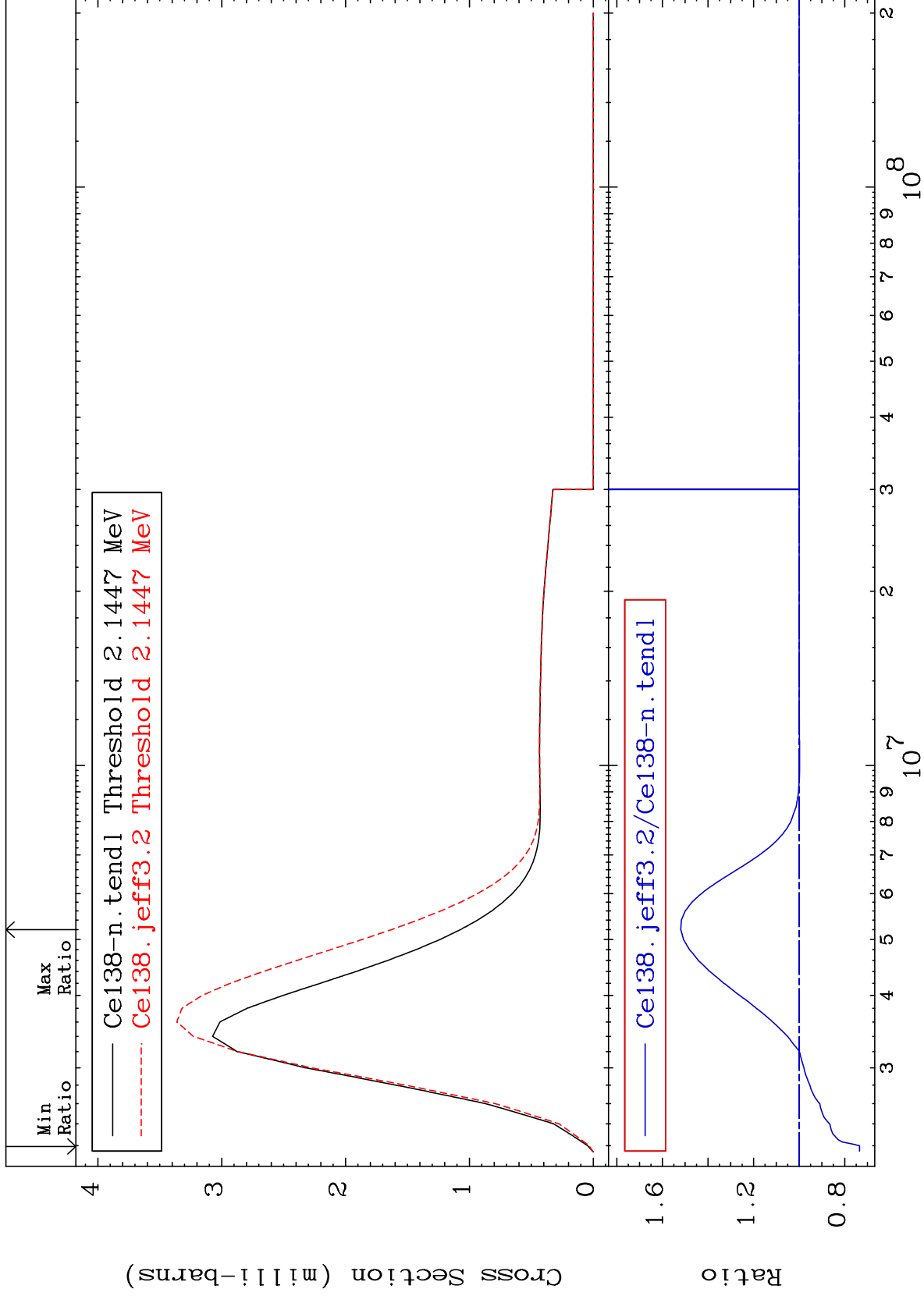
58-Ce-138
-5.092 To 16.09 %



MAT 5831

2.129 MeV (n,n') Level
Cross Section

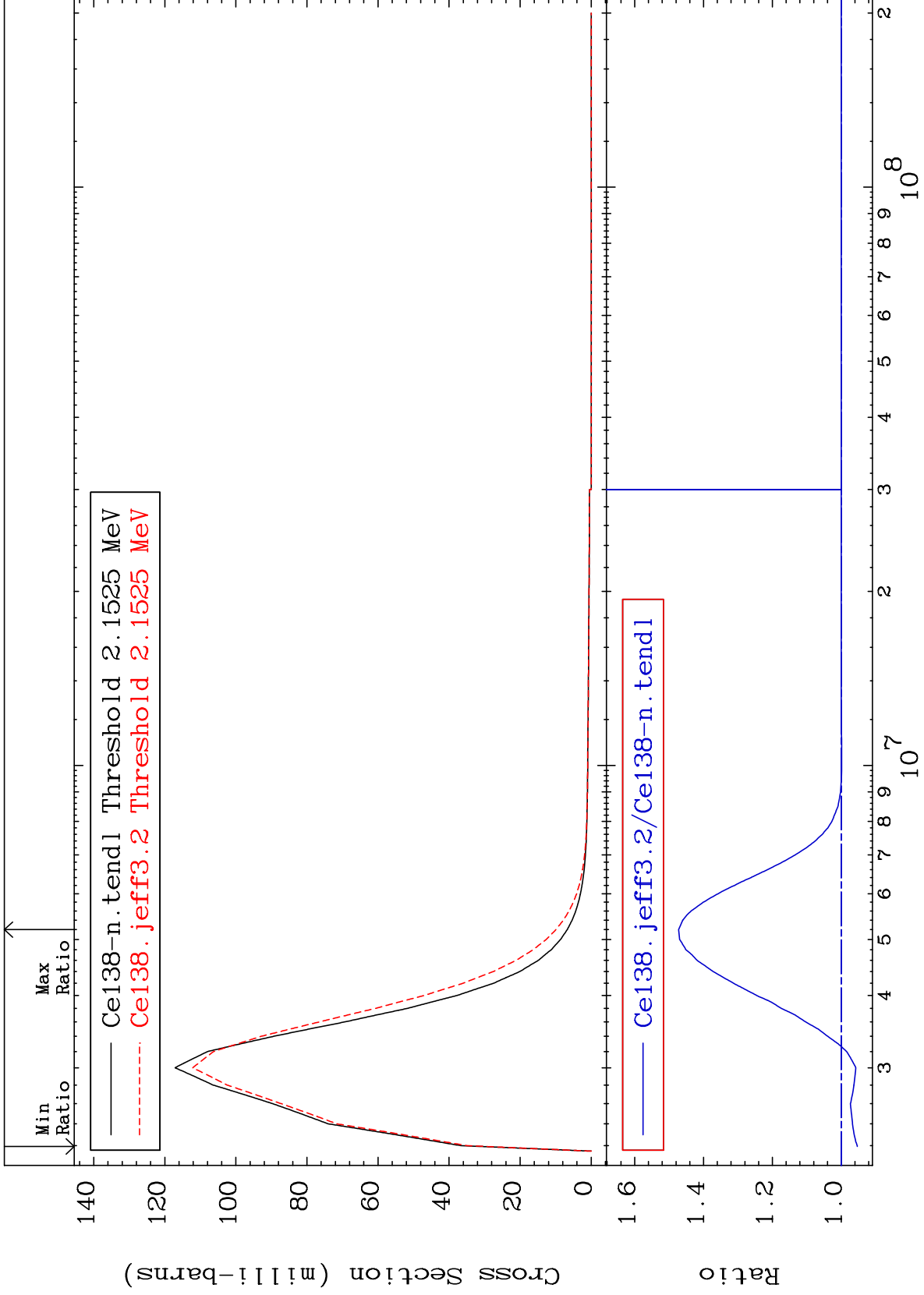
58-Ce-138
-26.49 To 51.93 %



MAT 5831

2.137 MeV (n,n') Level
Cross Section

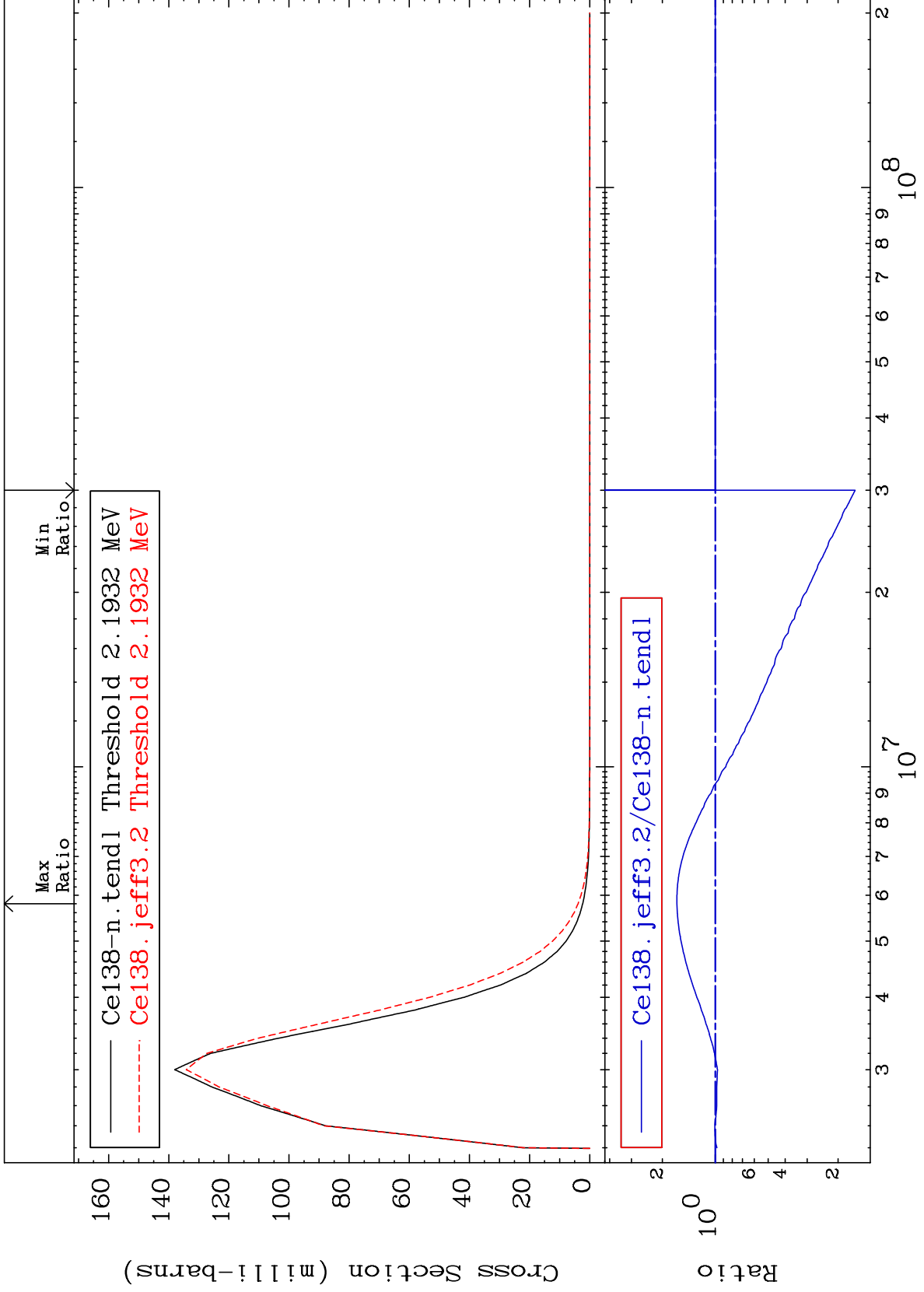
58-Ce-138
-4.651 To 47.23 %



MAT 5831

2.177 MeV (n,n') Level
Cross Section

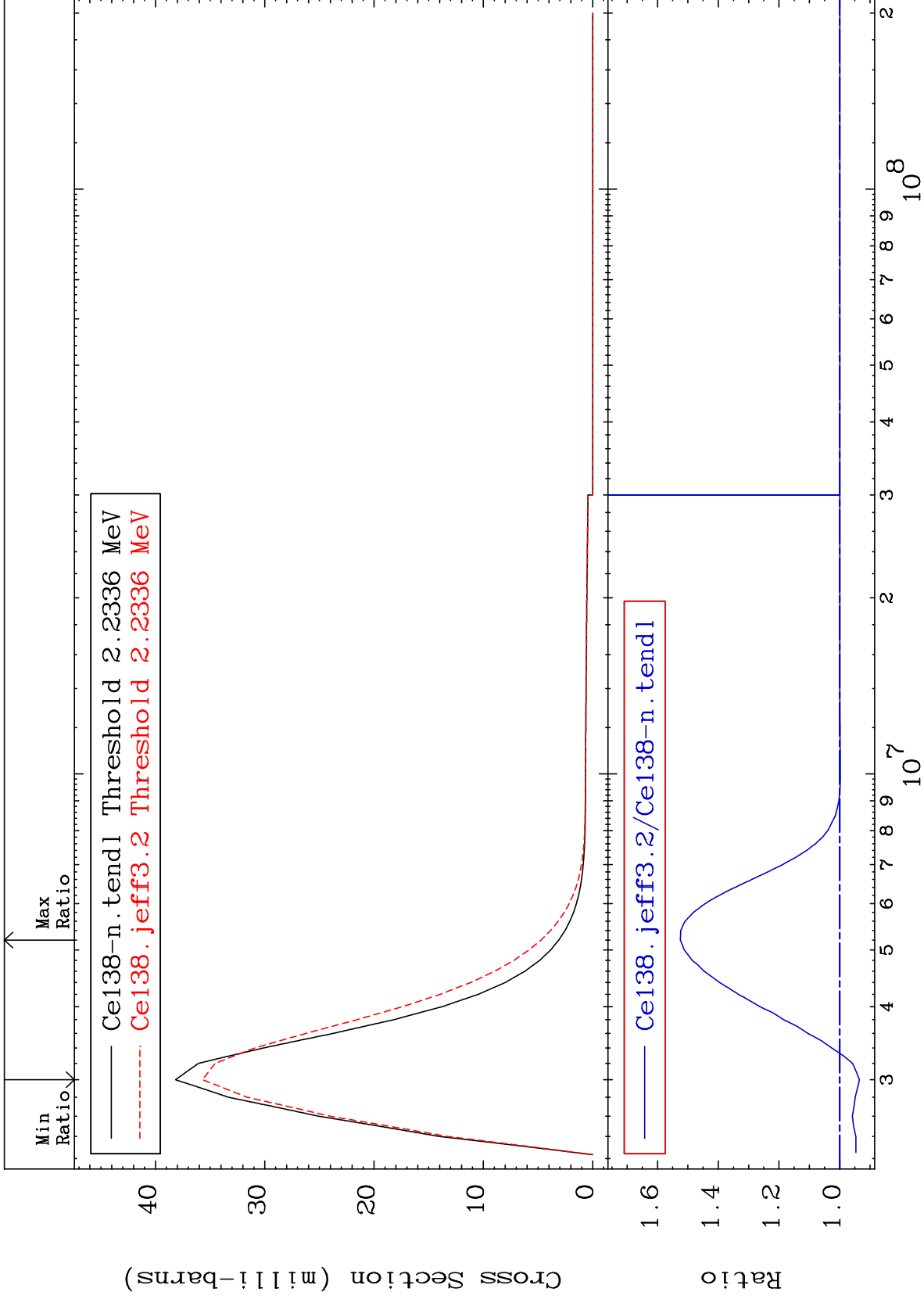
58-Ce-138
-84.02 To 65.41 %



MAT 5831

2.217 MeV (n,n') Level
Cross Section

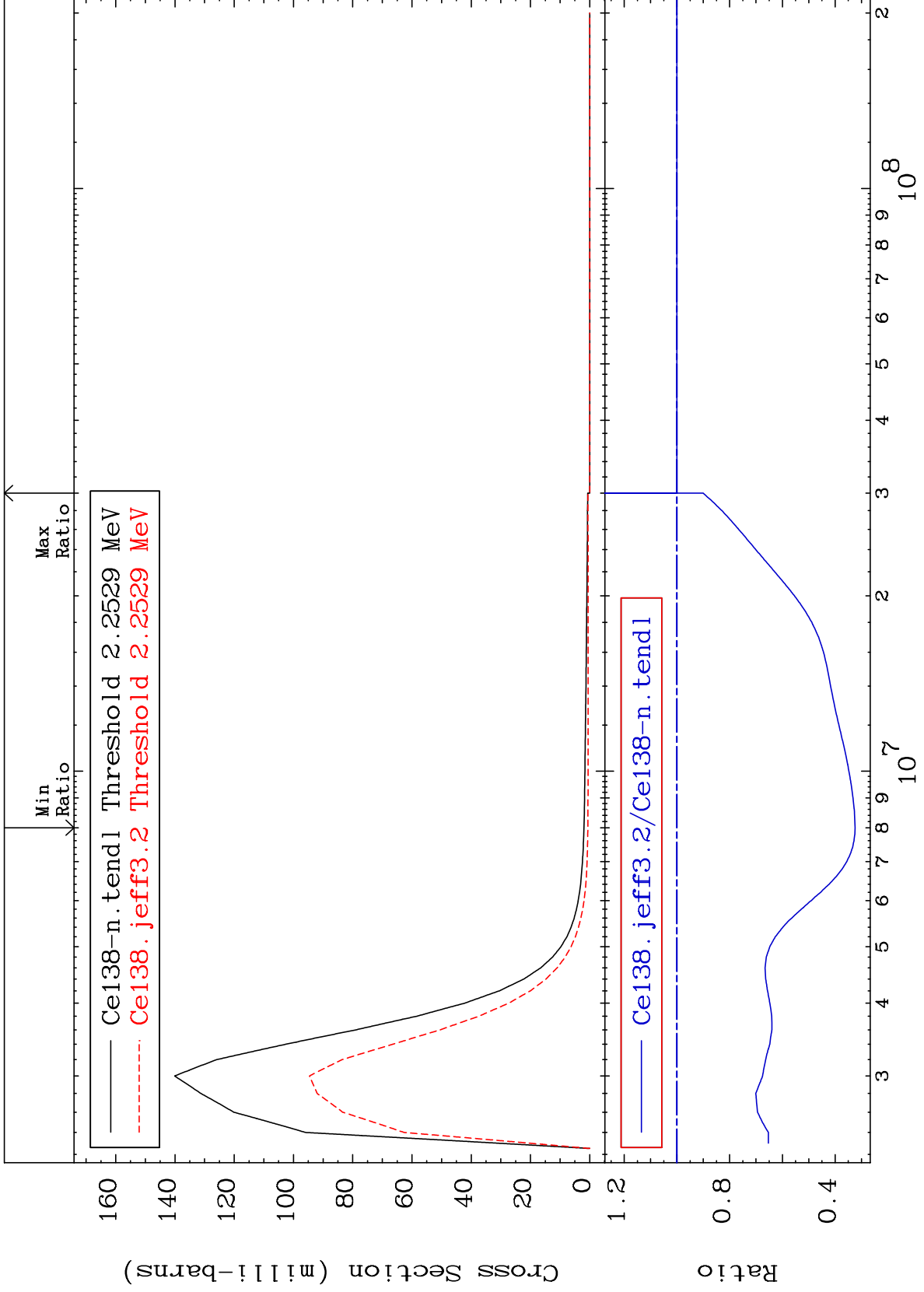
58-Ce-138
-6.488 To 52.47 %



MAT 5831

2.237 MeV (n,n') Level
Cross Section

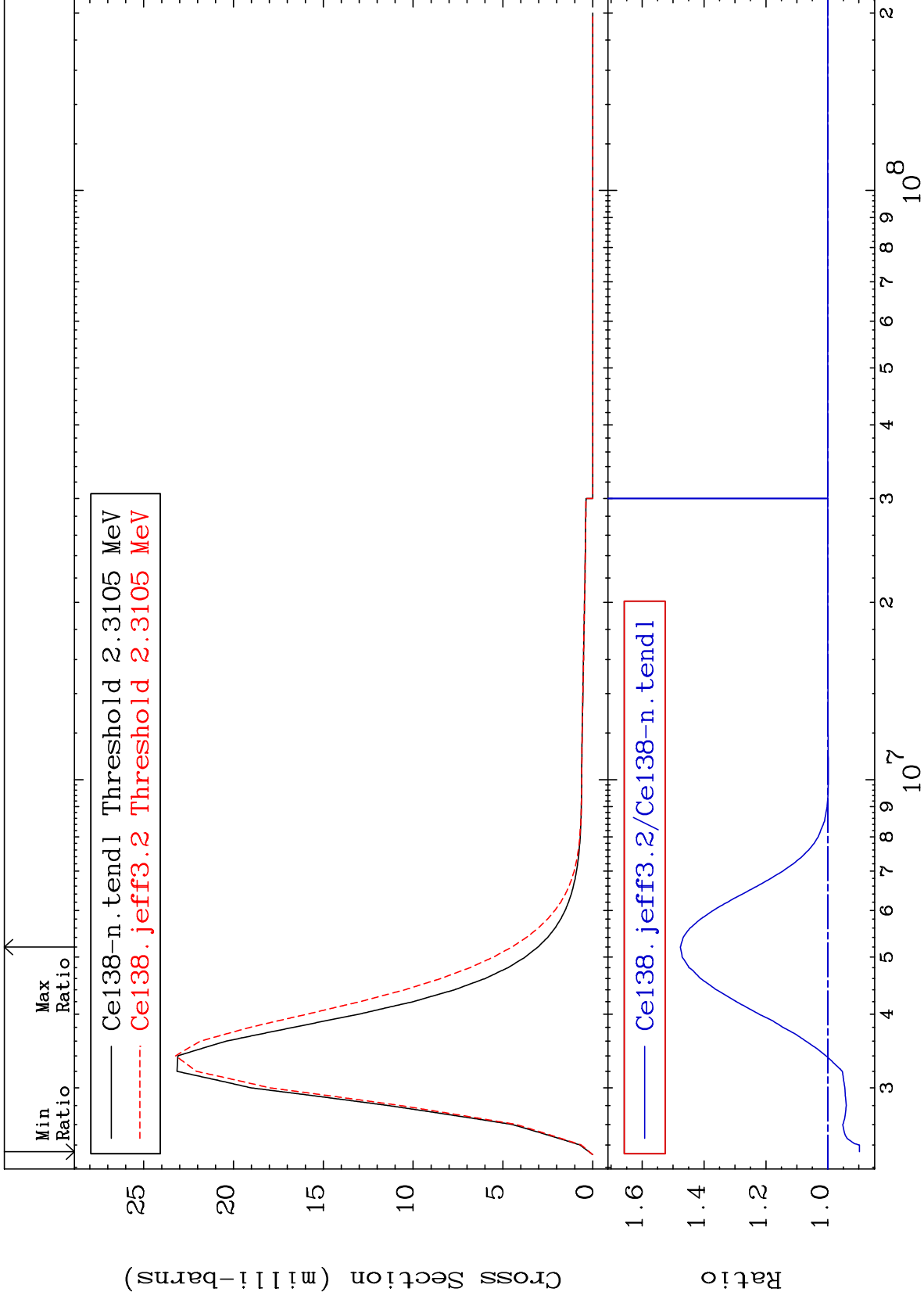
58-Ce-138
-67.58 To 0.000 %



MAT 5831

2.294 MeV (n,n') Level
Cross Section

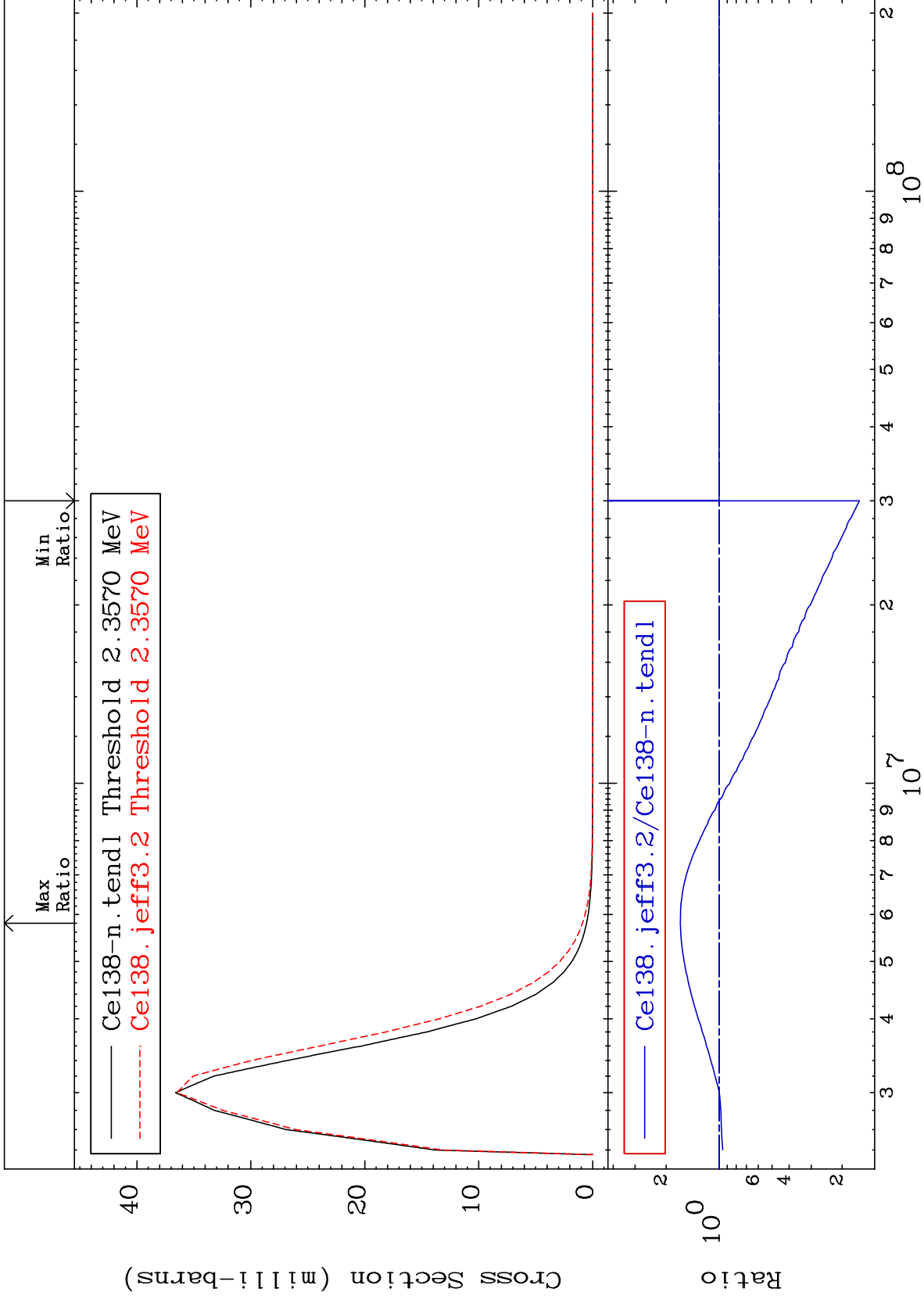
58-Ce-138
-10.21 To 47.65 %



MAT 5831

2.340 MeV (n,n') Level
Cross Section

58-Ce-138
-84.03 To 66.04 %



30

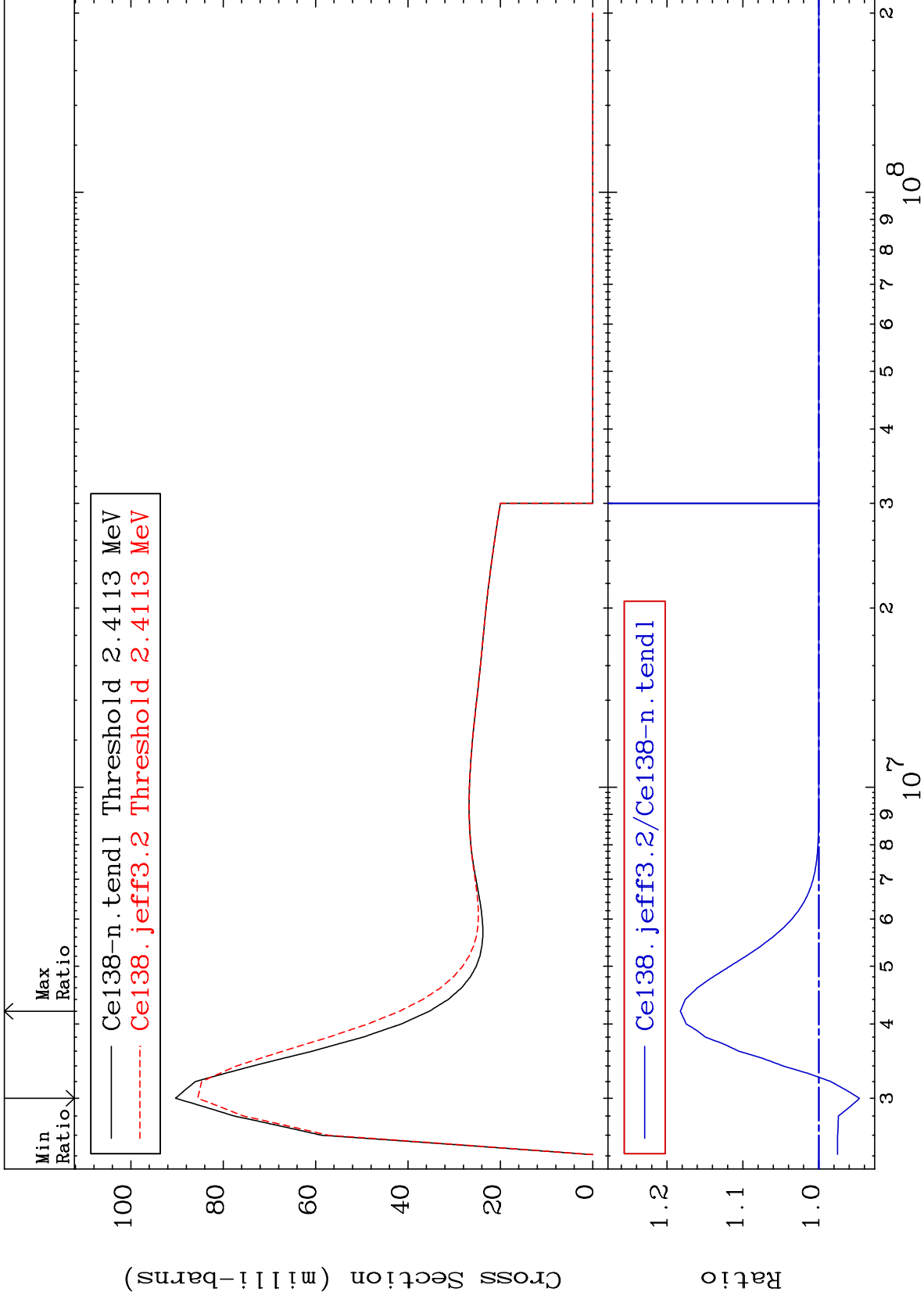
58-Ce-138

58-Ce-138

MAT 5831

2.394 MeV (n,n') Level
Cross Section

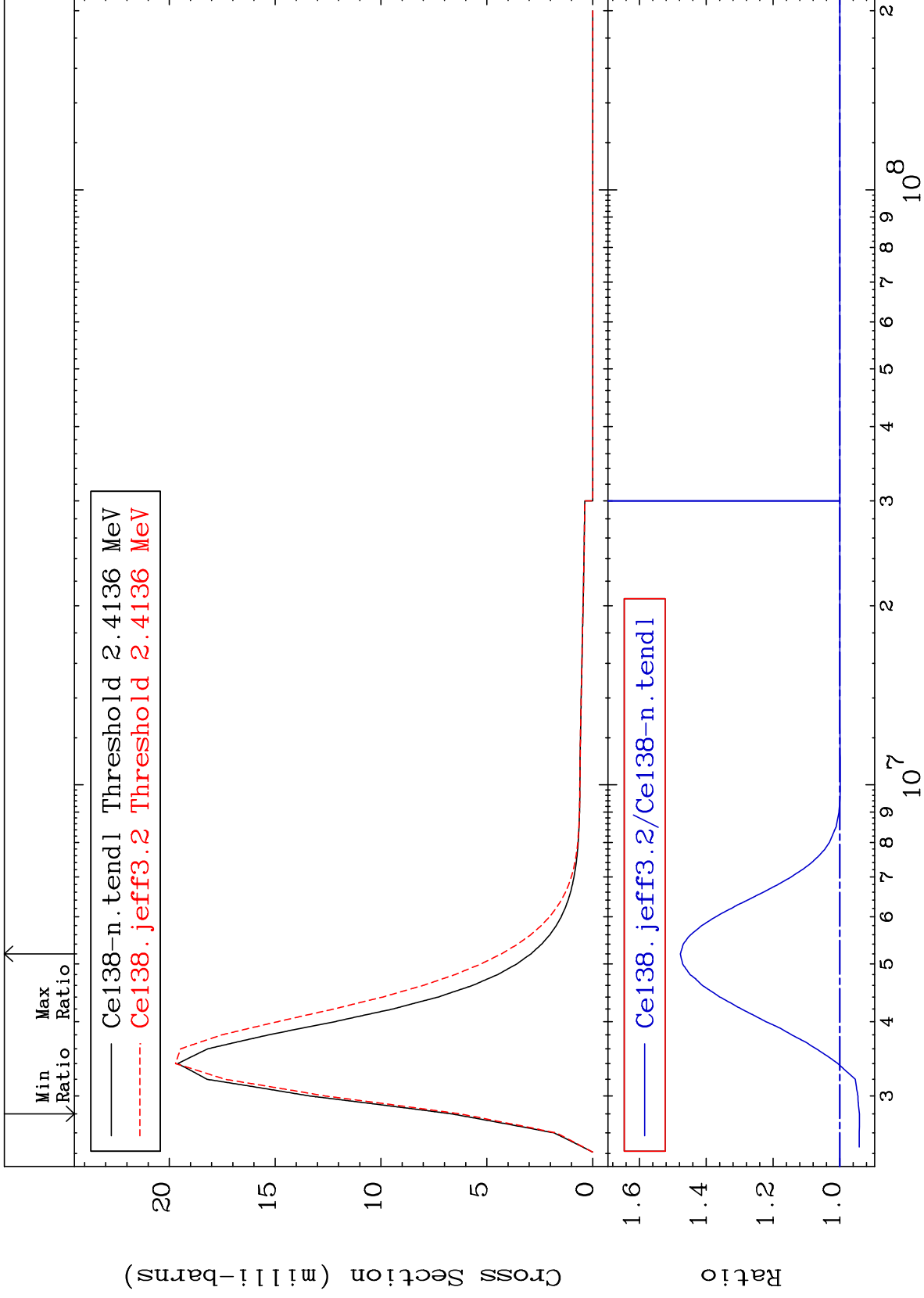
58-Ce-138
-5.344 To 18.23 %



MAT 5831

2.396 MeV (n,n') Level
Cross Section

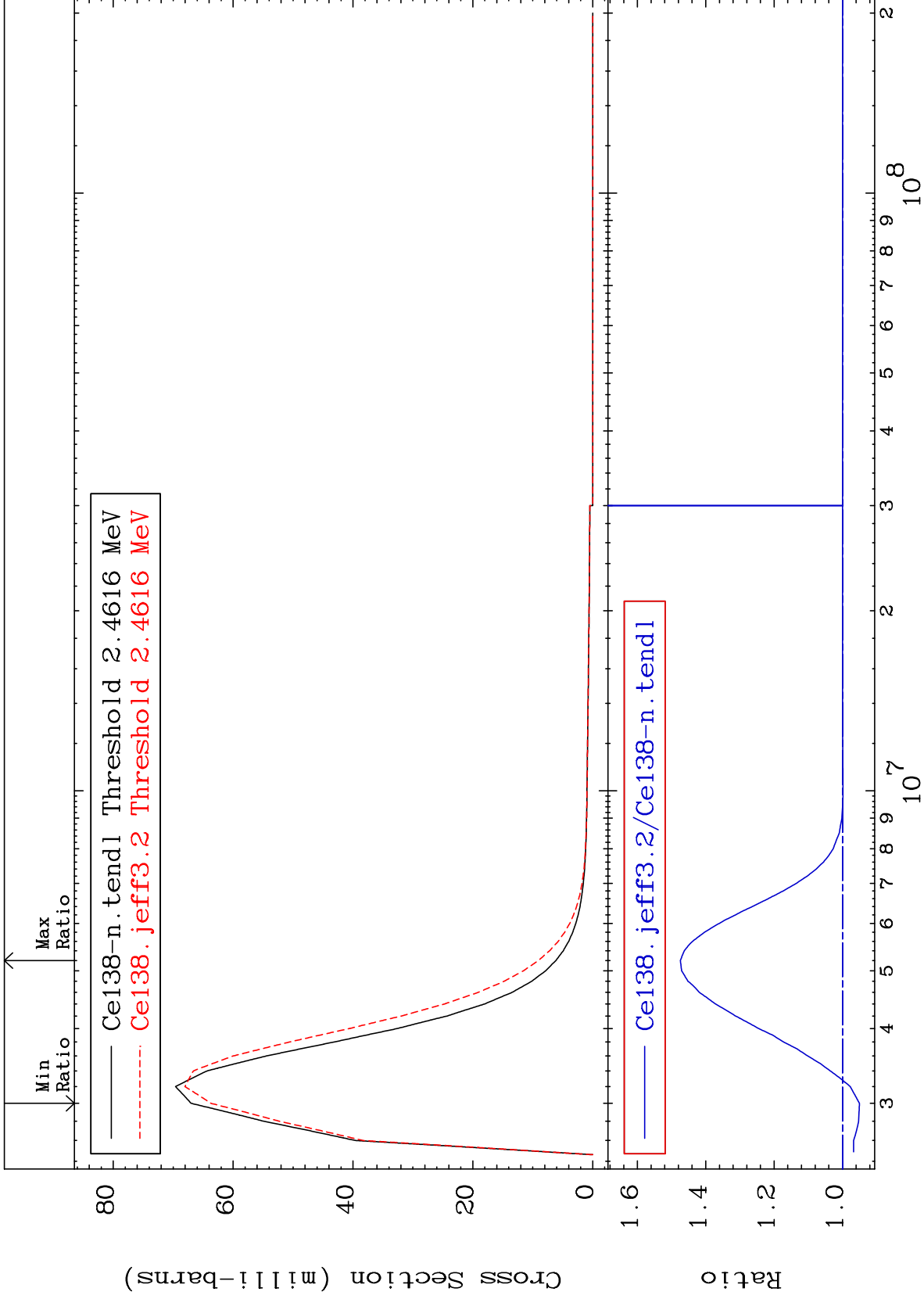
58-Ce-138
-5.895 To 47.76 %



MAT 5831

2.444 MeV (n,n') Level
Cross Section

58-Ce-138
-4.959 To 47.43 %

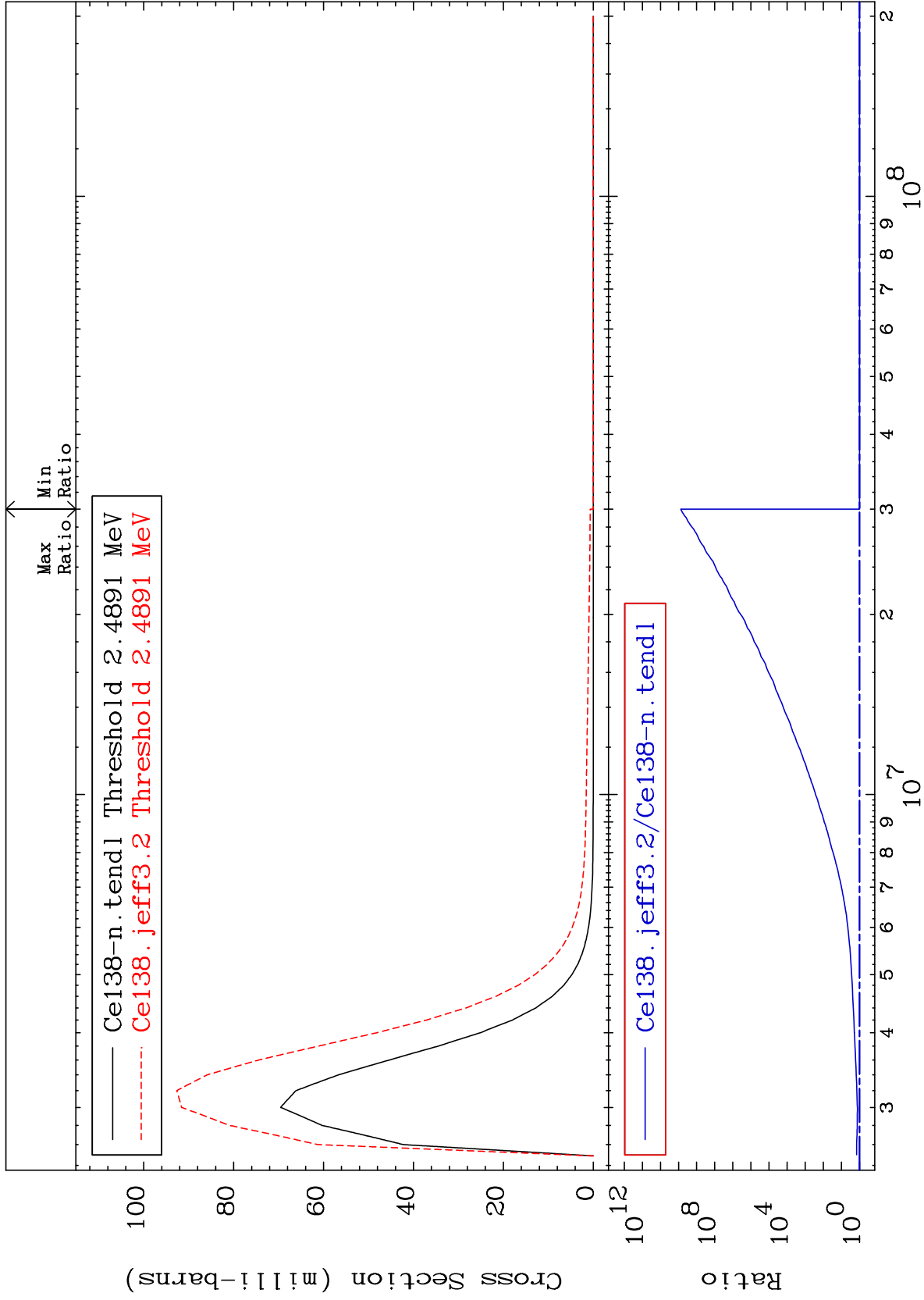


MAT 5831

2.471 MeV (n,n') Level

58-Ce-138

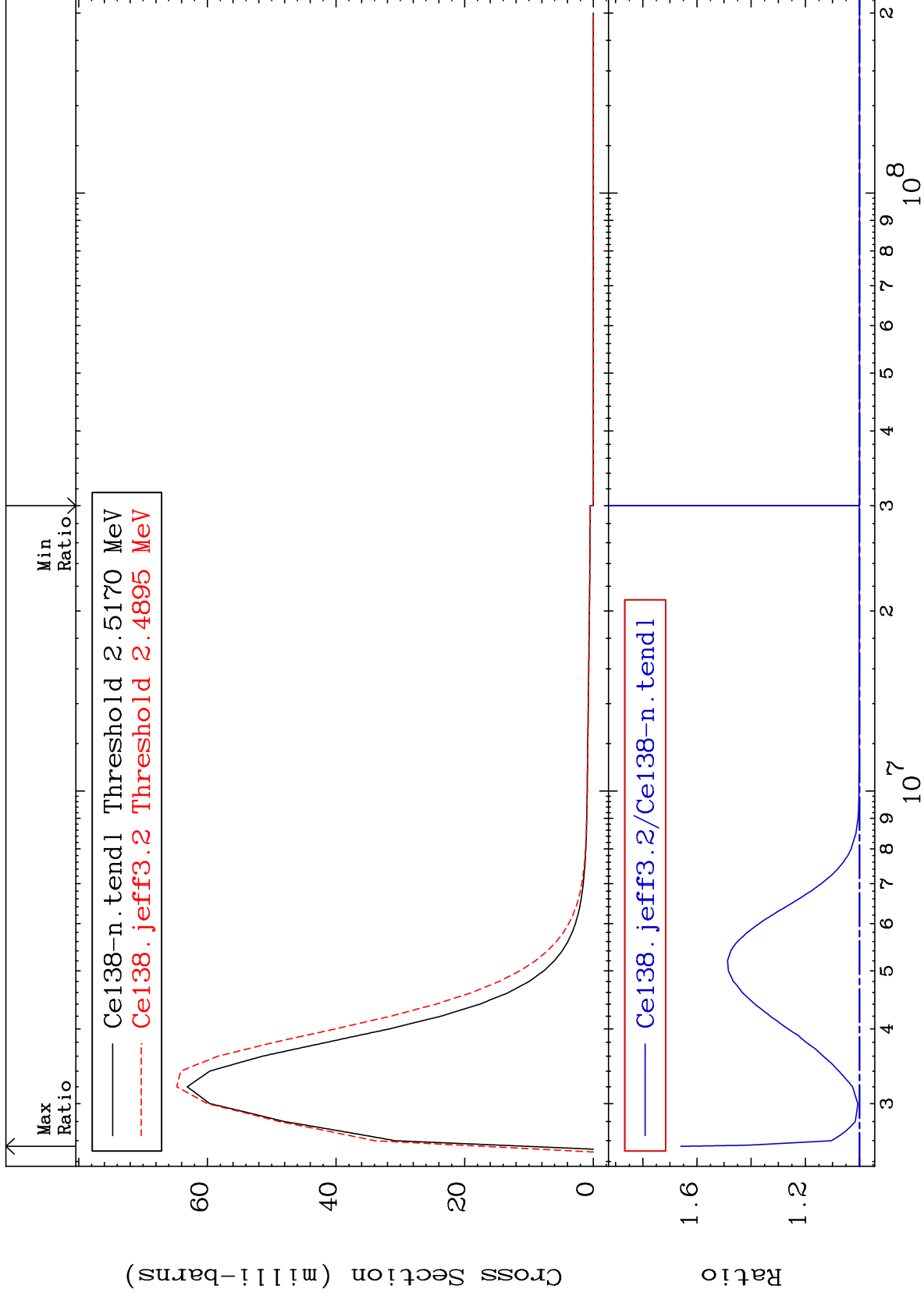
Cross Section To 9999. %



MAT 5831

2.499 MeV (n,n') Level
Cross Section

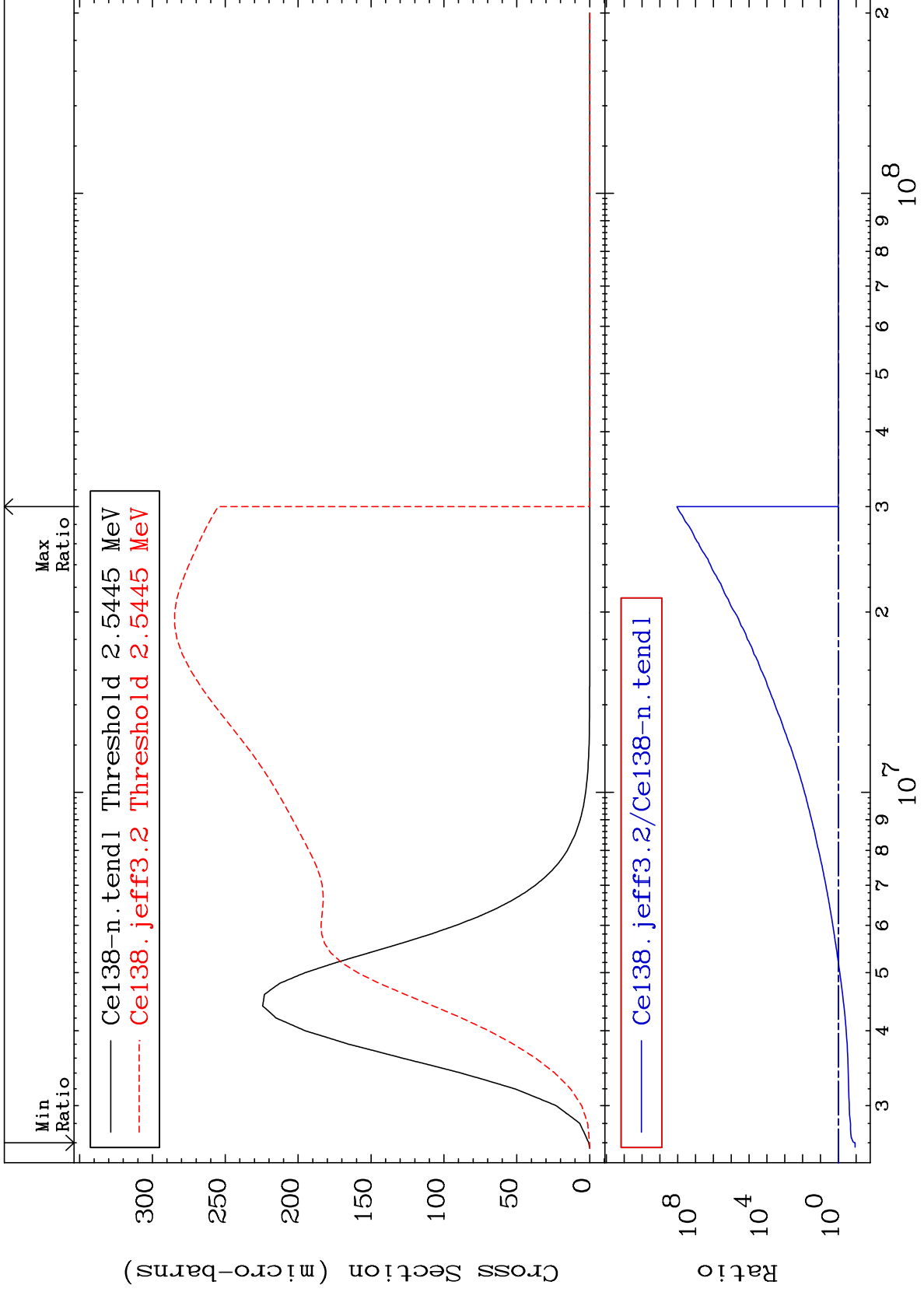
58-Ce-138
0.000 To 65.97 %



MAT 5831

2.526 MeV (n,n') Level
Cross Section

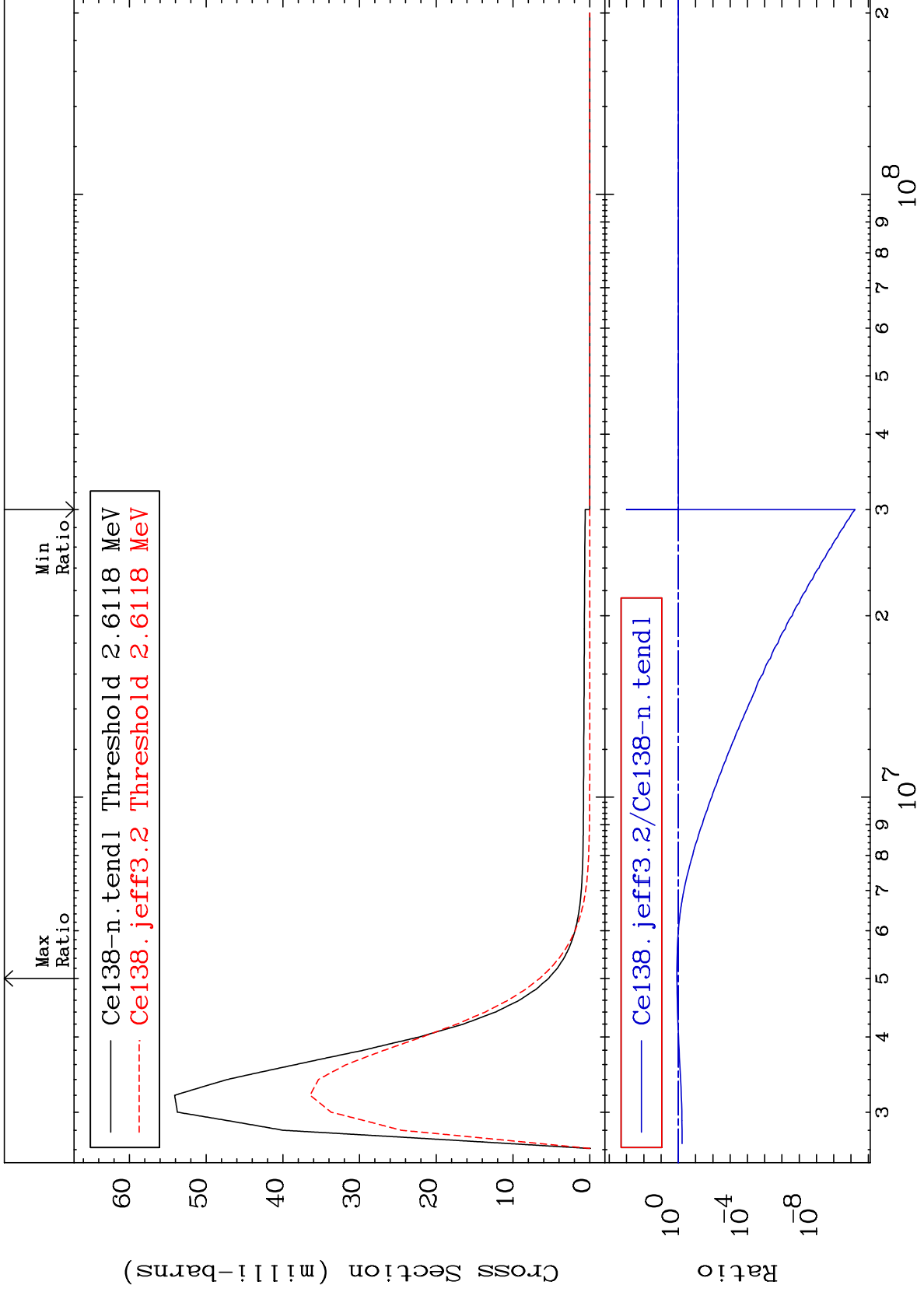
58-Ce-138
-88.70 To 9999. %



MAT 5831

2.593 MeV (n,n') Level
Cross Section

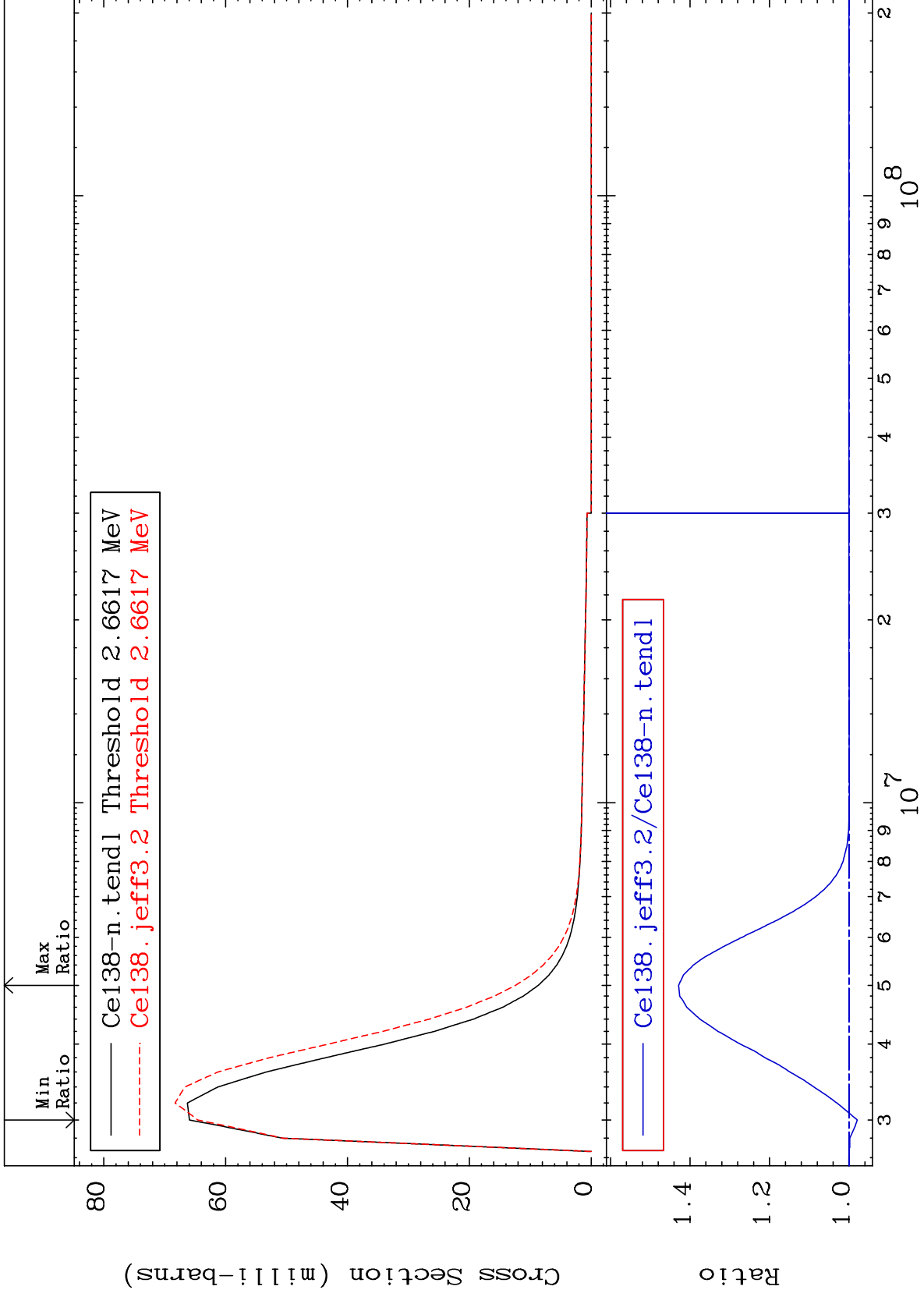
58-Ce-138
-100.0 To 21.15 %



MAT 5831

2.642 MeV (n,n') Level
Cross Section

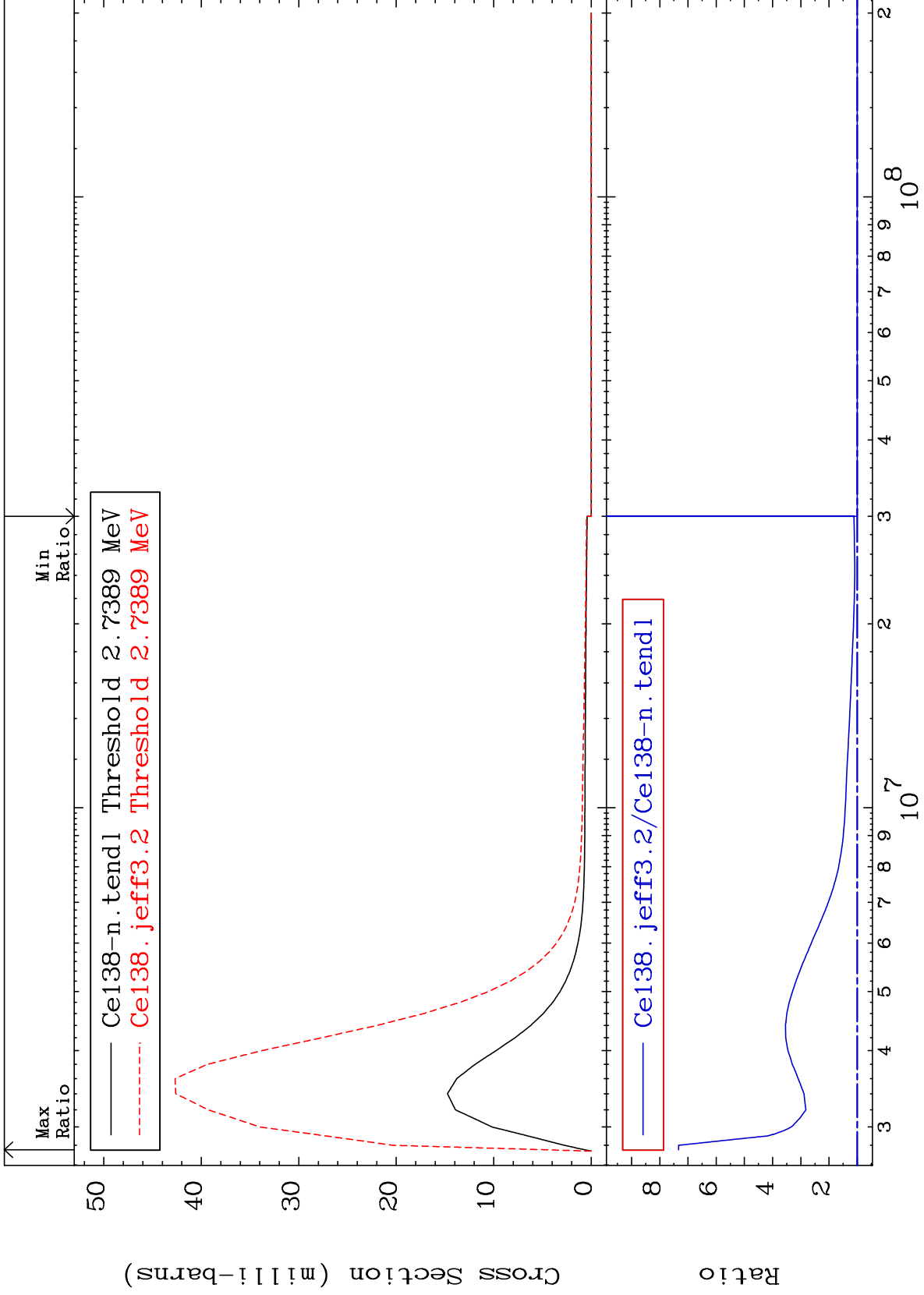
58-Ce-138
-2.068 To 42.86 %



MAT 5831

2.719 MeV (n,n') Level
Cross Section

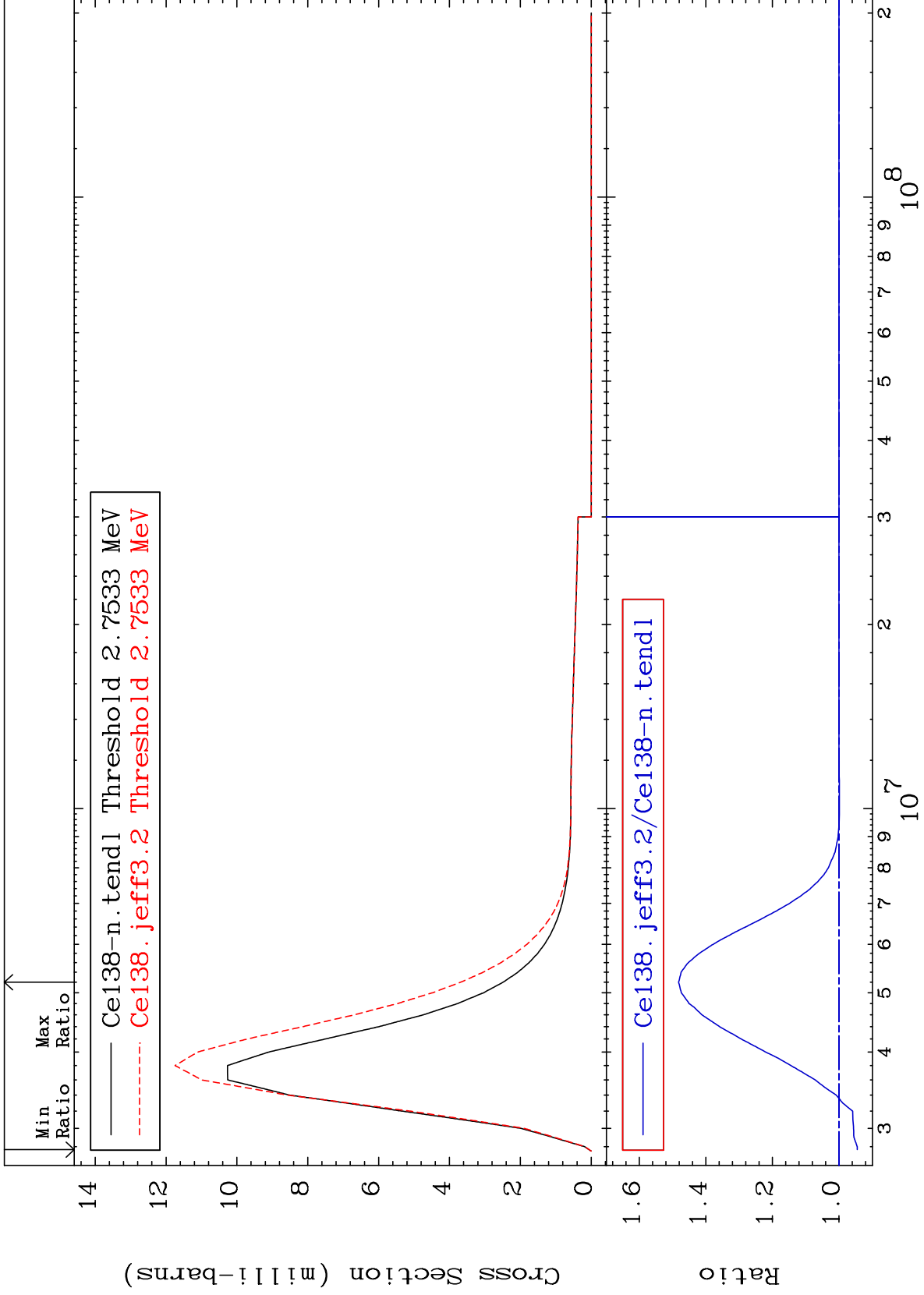
58-Ce-138
To 633.1 %



MAT 5831

2.733 MeV (n,n') Level
Cross Section

58-Ce-138
-5.525 To 48.19 %



40

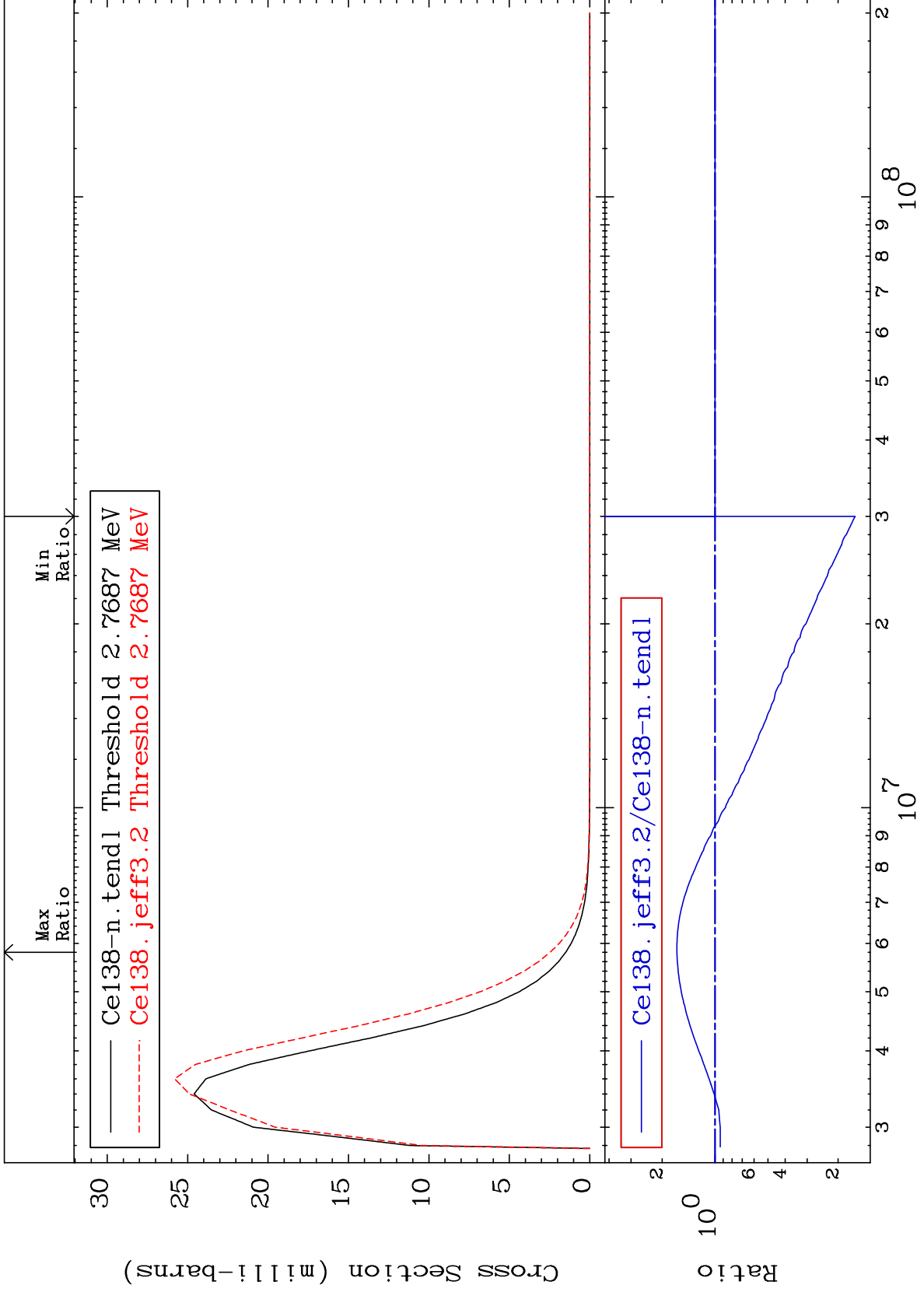
Incident Energy (eV)

58-Ce-138

MAT 5831

2.749 MeV (n,n') Level
Cross Section

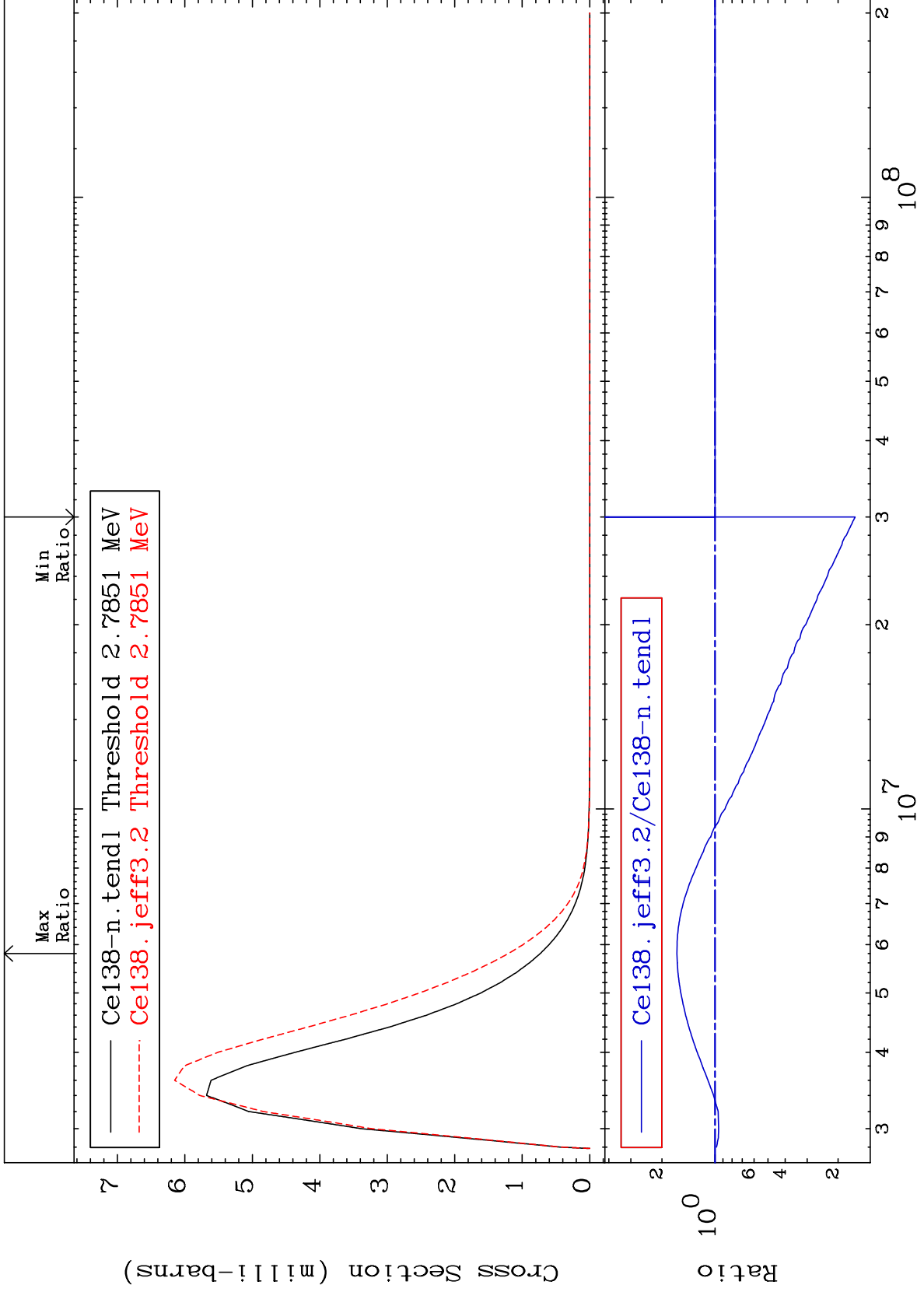
58-Ce-138
-83.99 To 64.64 %



MAT 5831

2.765 MeV (n, n') Level
Cross Section

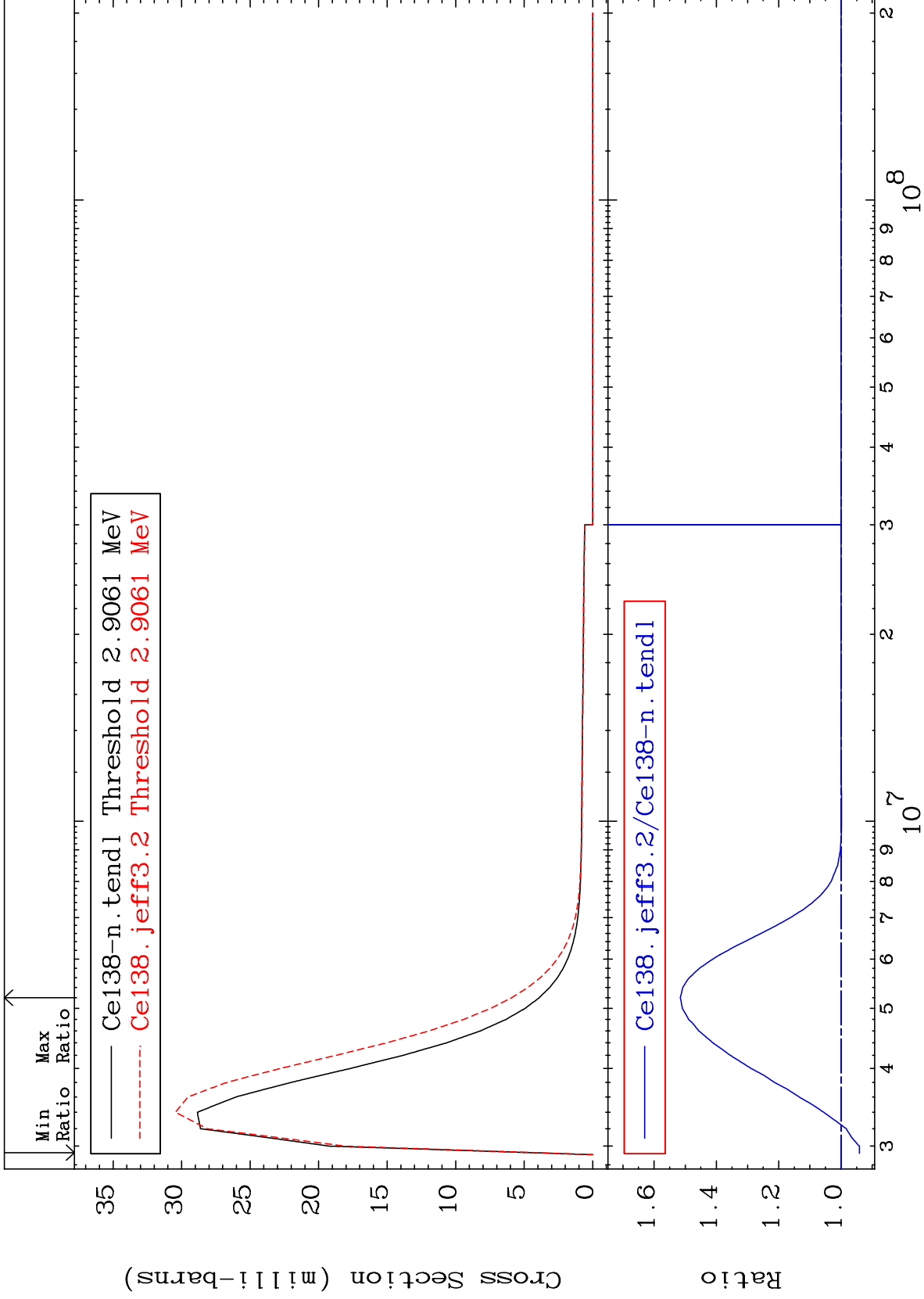
58-Ce-138
-83.97 To 64.39 %



MAT 5831

2.885 MeV (n,n') Level
Cross Section

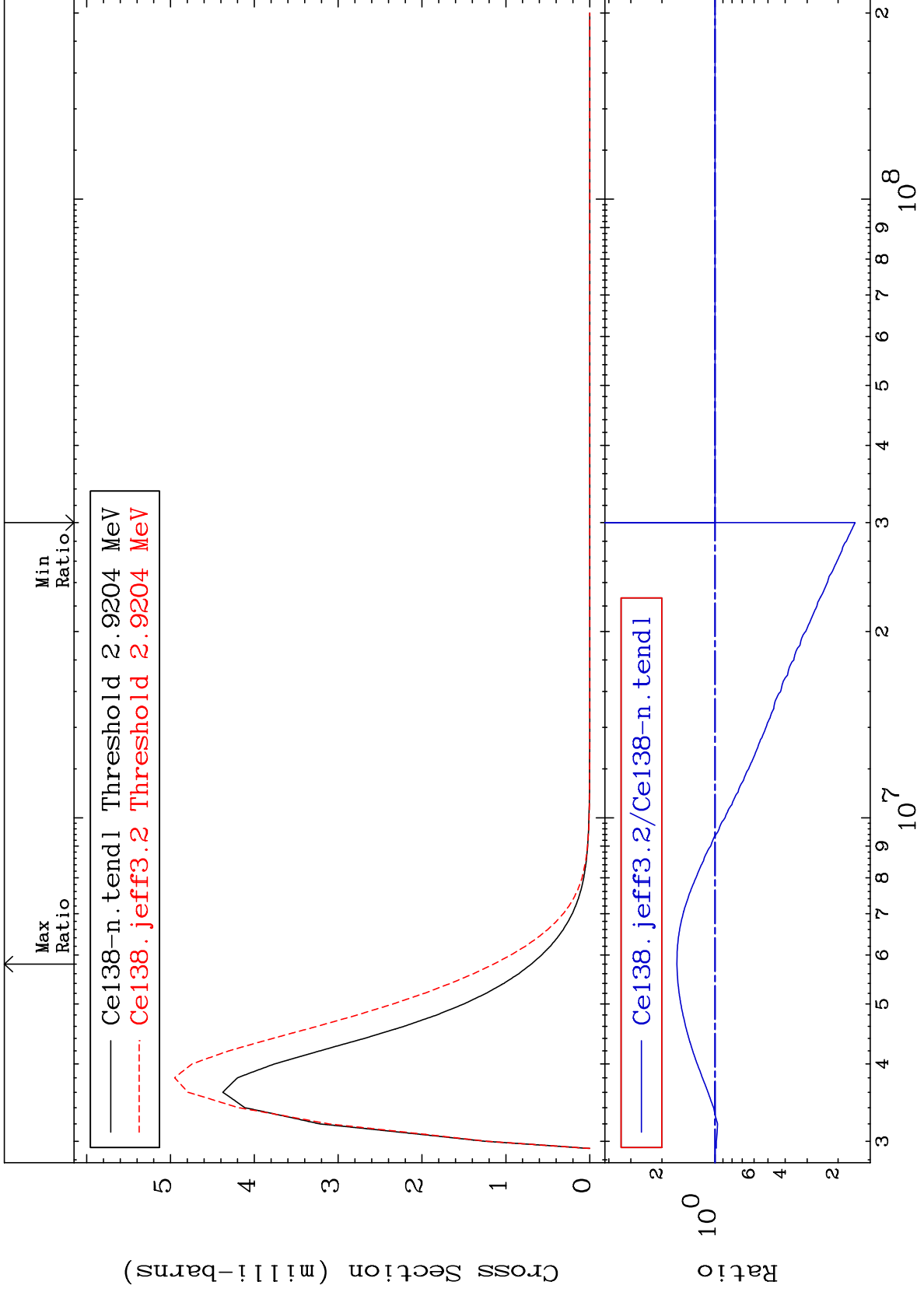
58-Ce-138
-5.890 To 51.56 %



MAT 5831

2.899 MeV (n,n') Level
Cross Section

58-Ce-138
-83.97 To 64.36 %

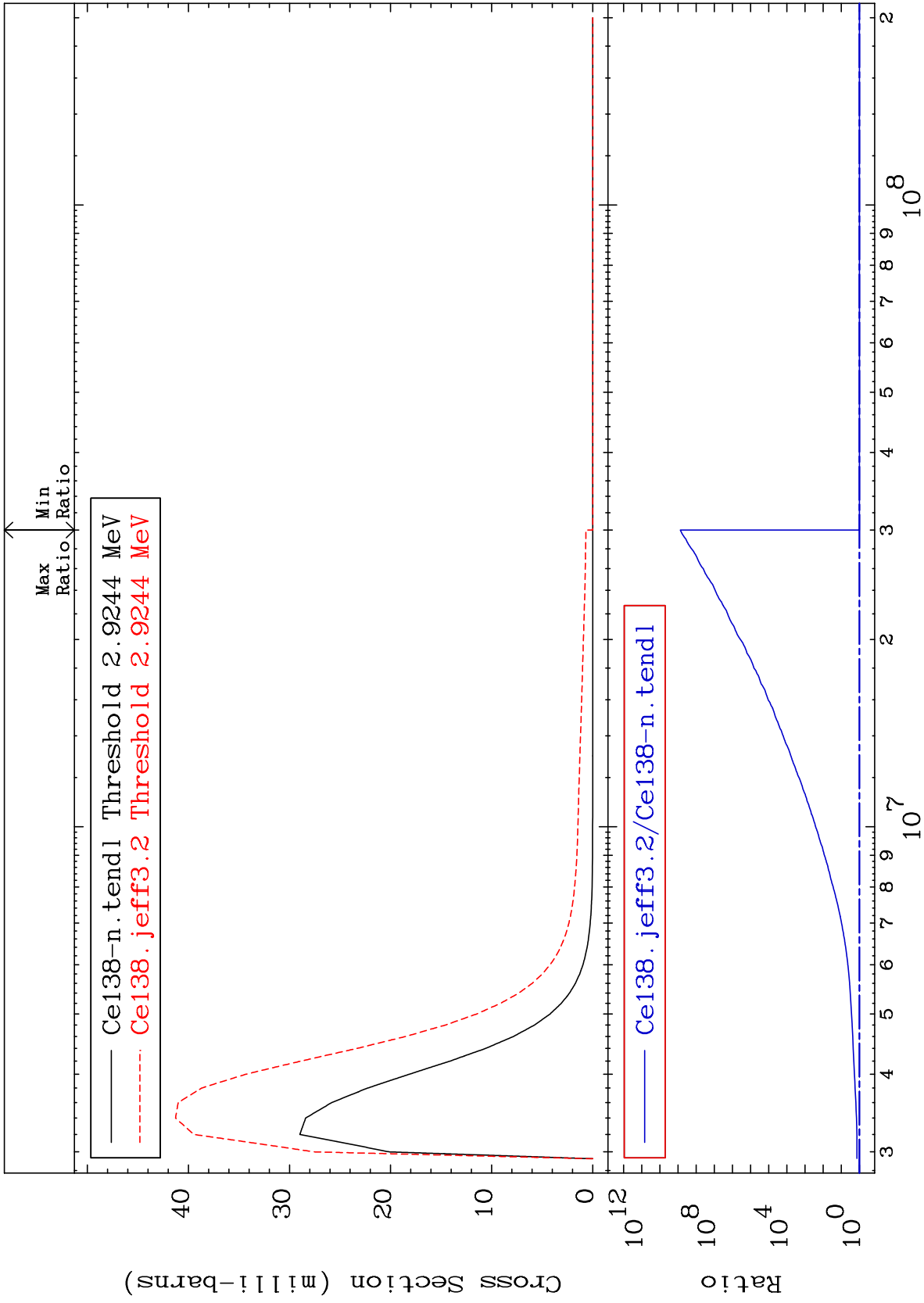


MAT 5831

2.903 MeV (n,n') Level

58-Ce-138

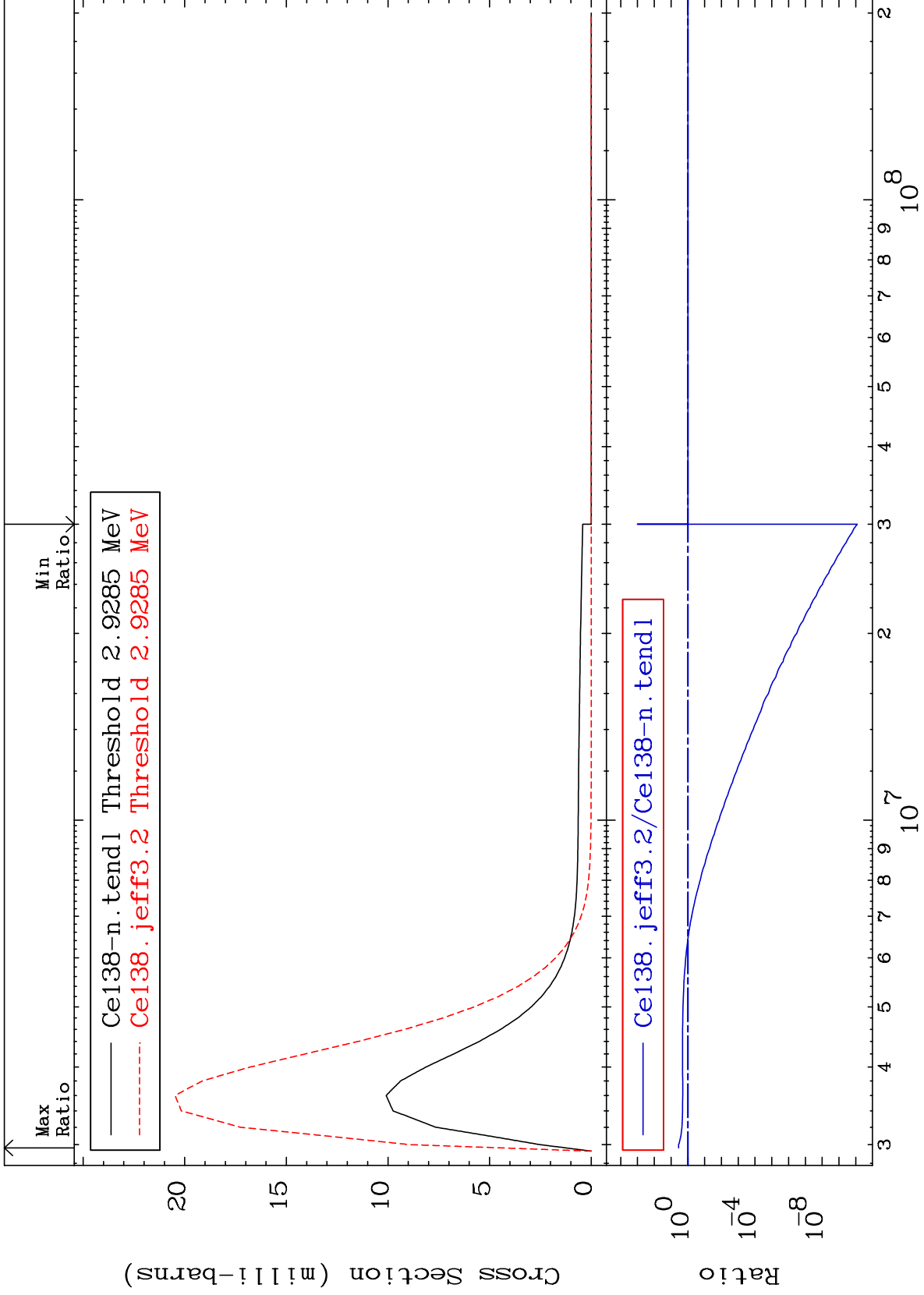
Cross Section To 9999. %



MAT 5831

2.907 MeV (n,n') Level
Cross Section

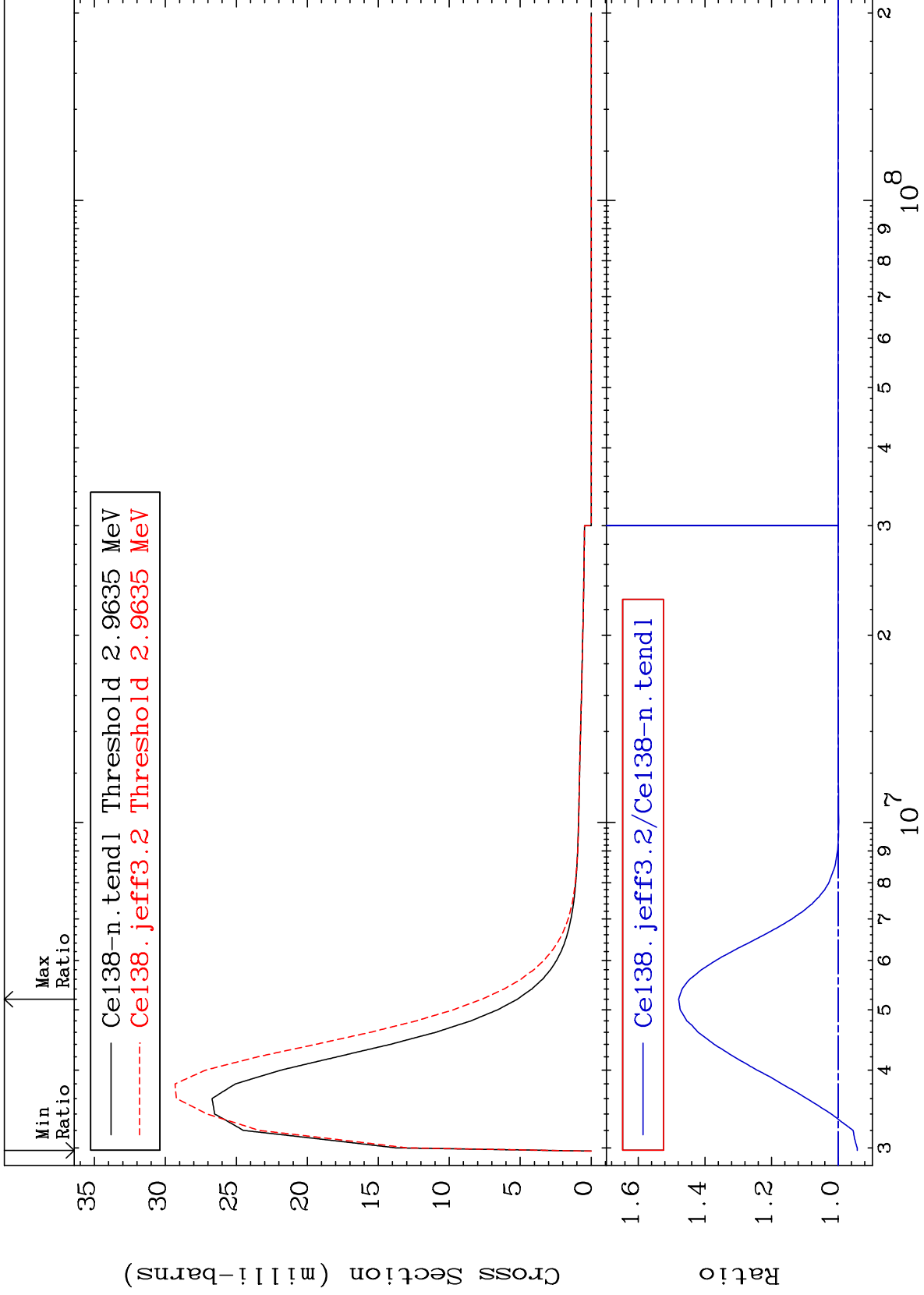
58-Ce-138
-100.0 To 254.9 %



MAT 5831

2.942 MeV (n,n') Level
Cross Section

58-Ce-138
-5.731 To 47.89 %



47

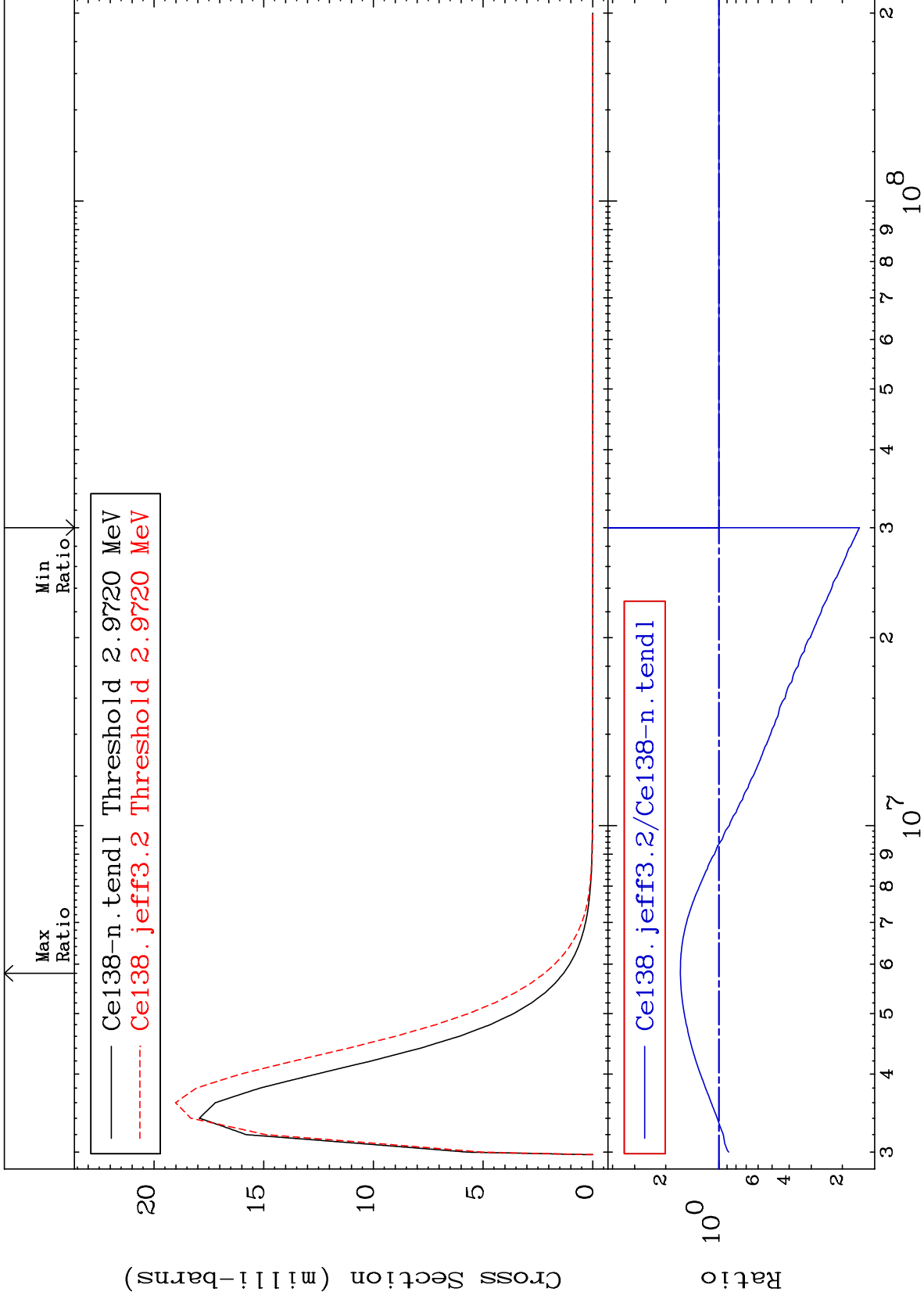
Incident Energy (eV)

58-Ce-138

MAT 5831

2.950 MeV (n,n') Level
Cross Section

58-Ce-138
-84.01 To 65.29 %



48

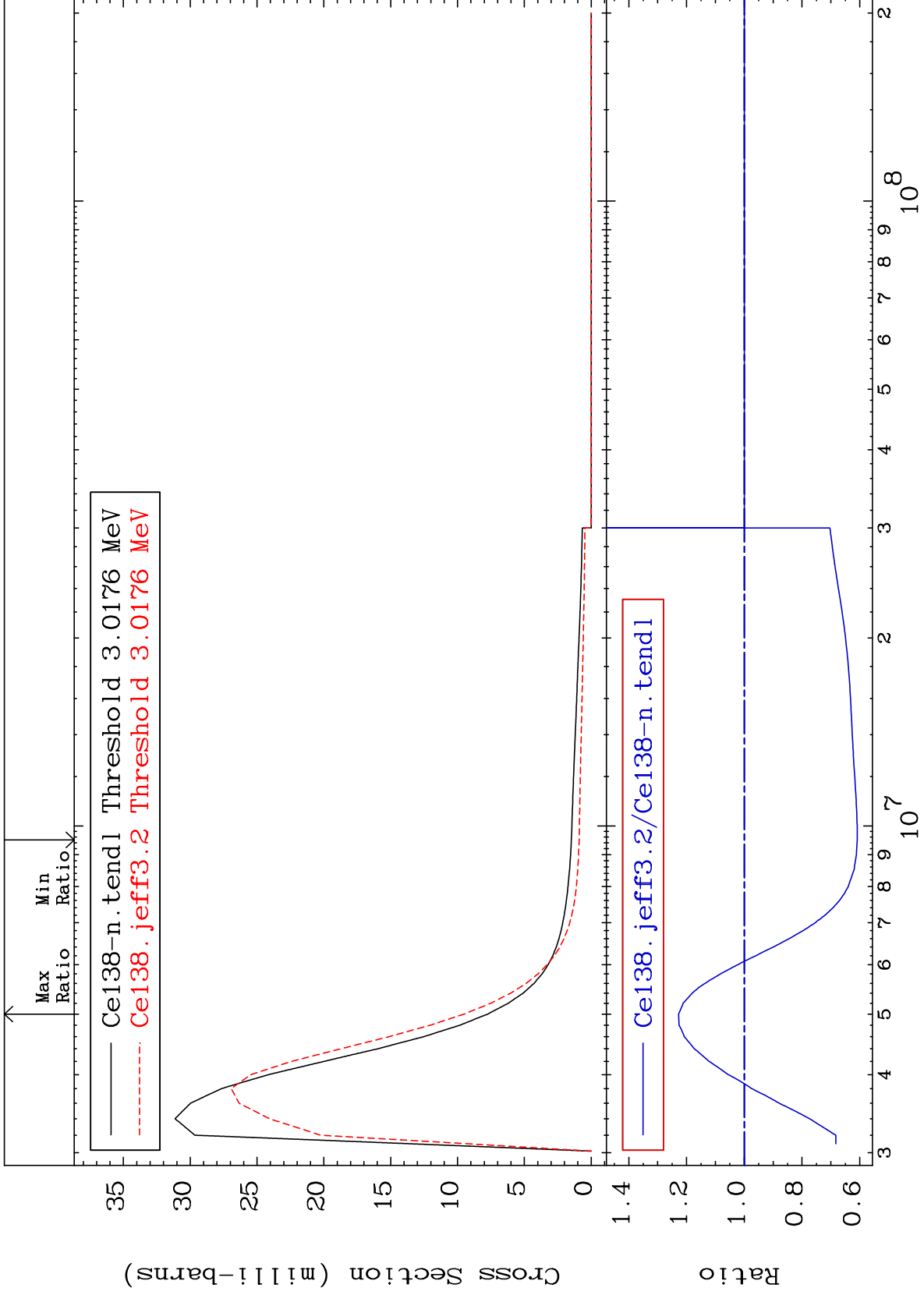
Incident Energy (eV)

58-Ce-138

MAT 5831

2.996 MeV (n,n') Level
Cross Section

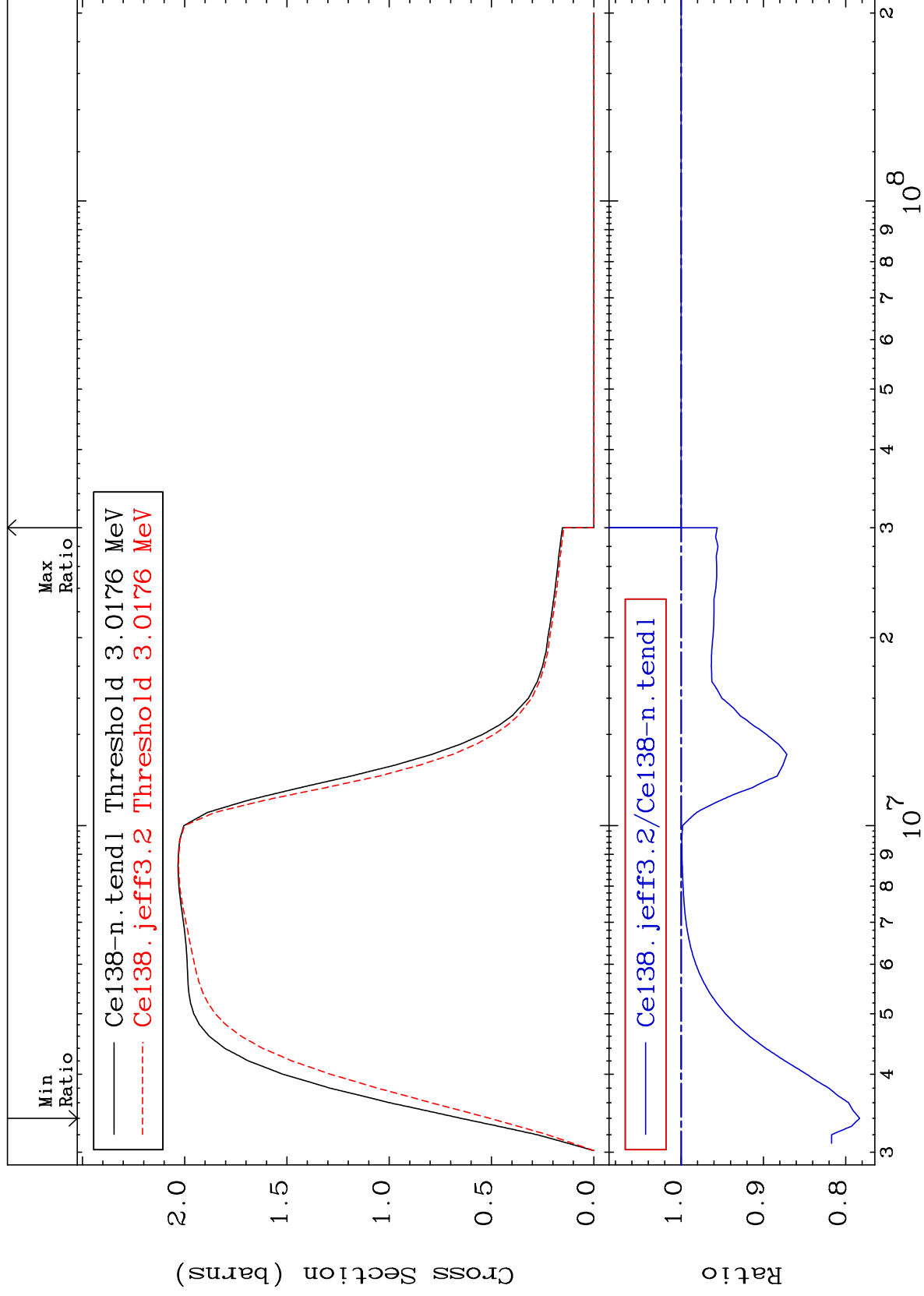
58-Ce-138
-39.14 To 22.73 %



MAT 5831

(n, n') Continuum
Cross Section

58-Ce-138
-21.70 To 0.000 %



50

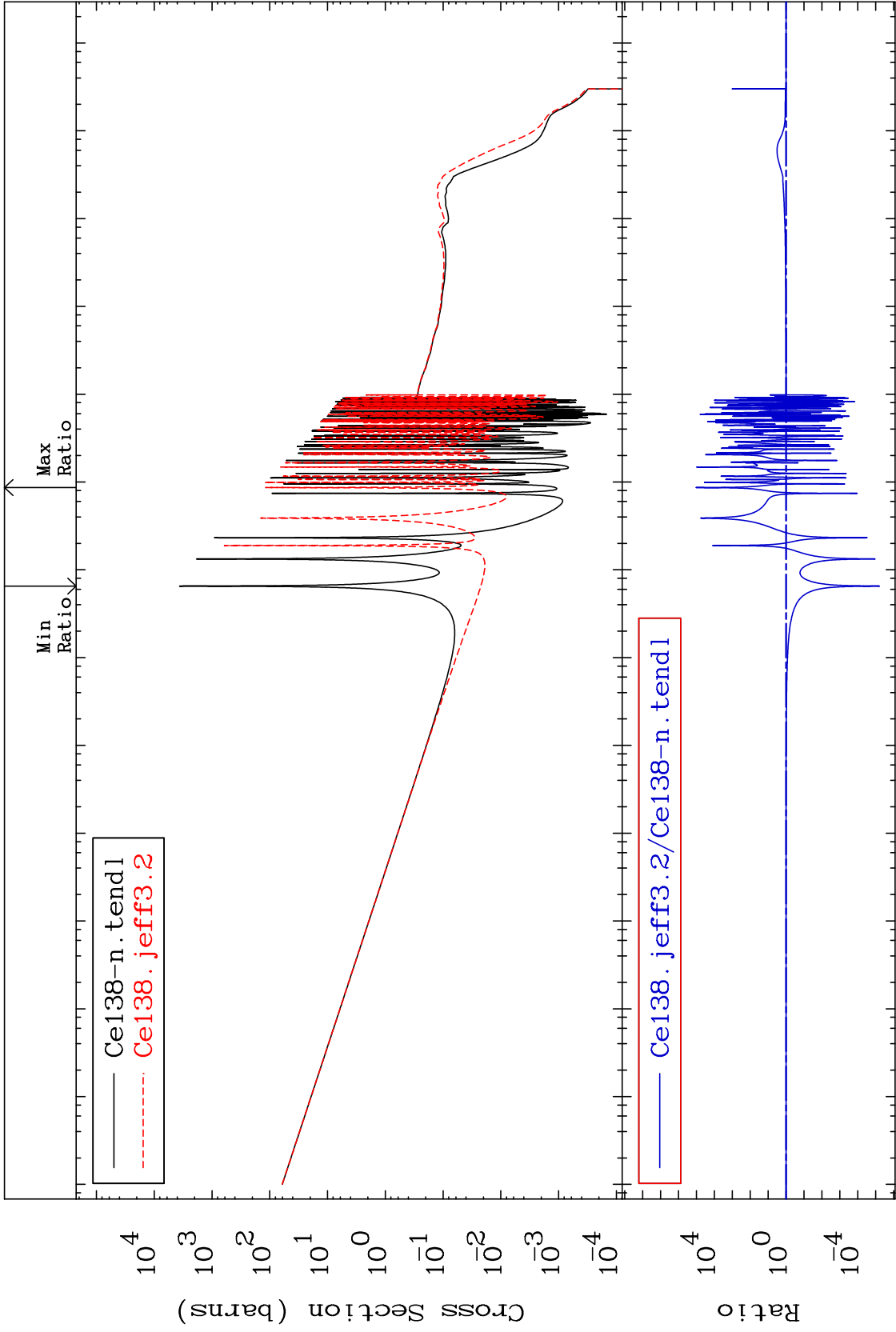
Incident Energy (eV)

58-Ce-138

MAT 5831

(n, γ)
Cross Section

58-Ce-138
-100.0 To 9999. %



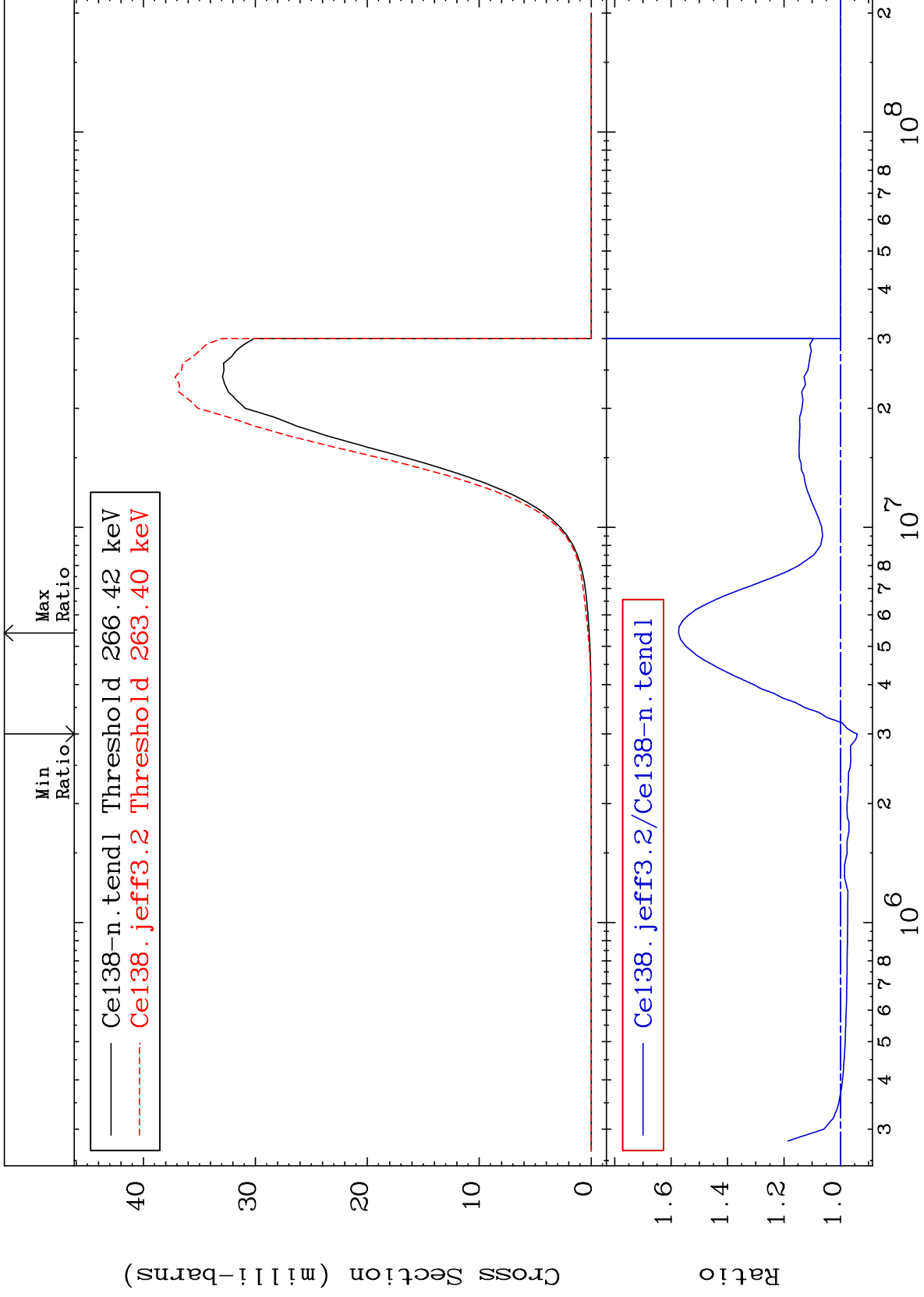
MAT 5831

(n,p)

58-Ce-138

Cross Section

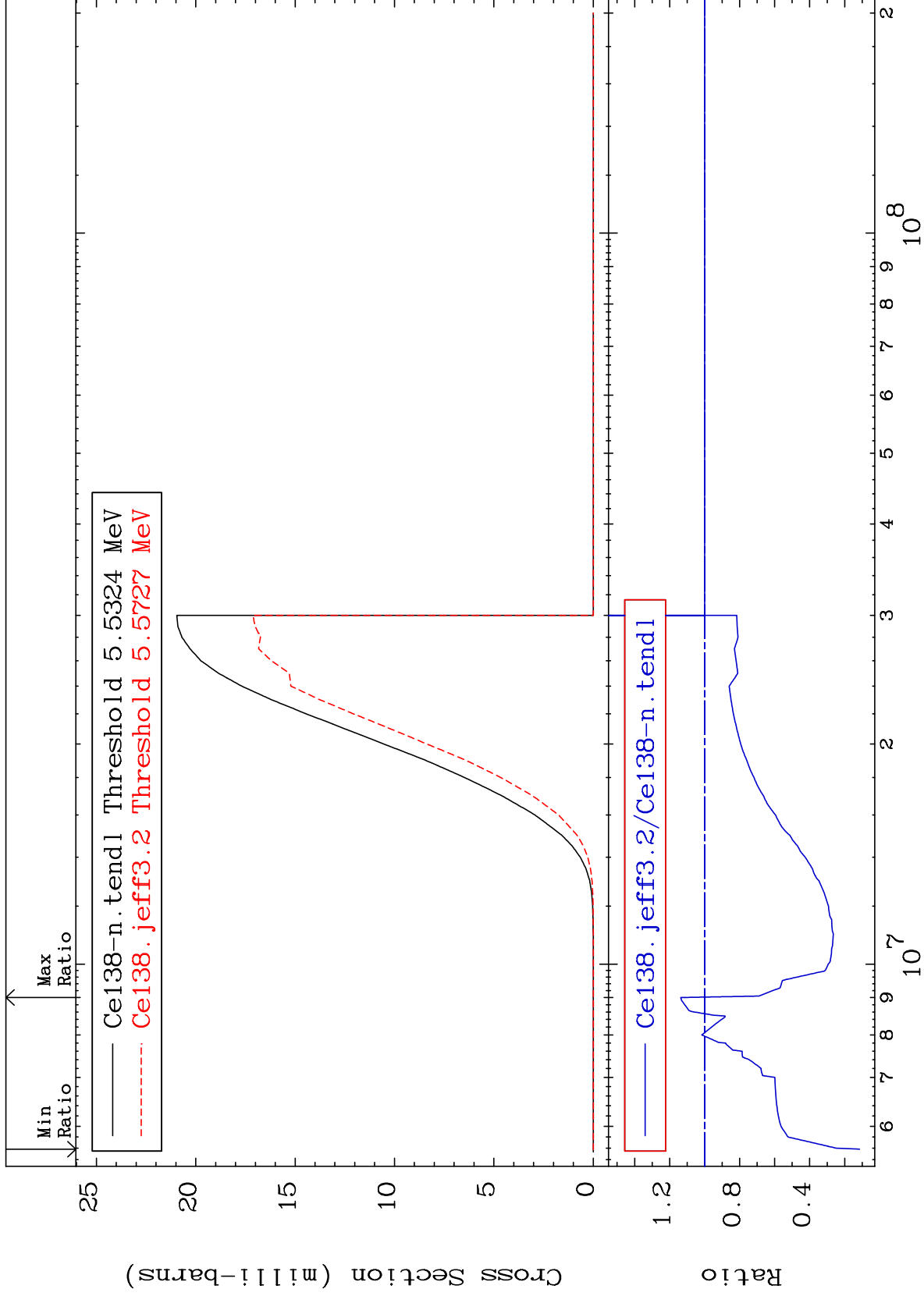
-5.990 To 57.34 %



MAT 5831

(n, d)
Cross Section

58-Ce-138
-88.48 To 13.64 %



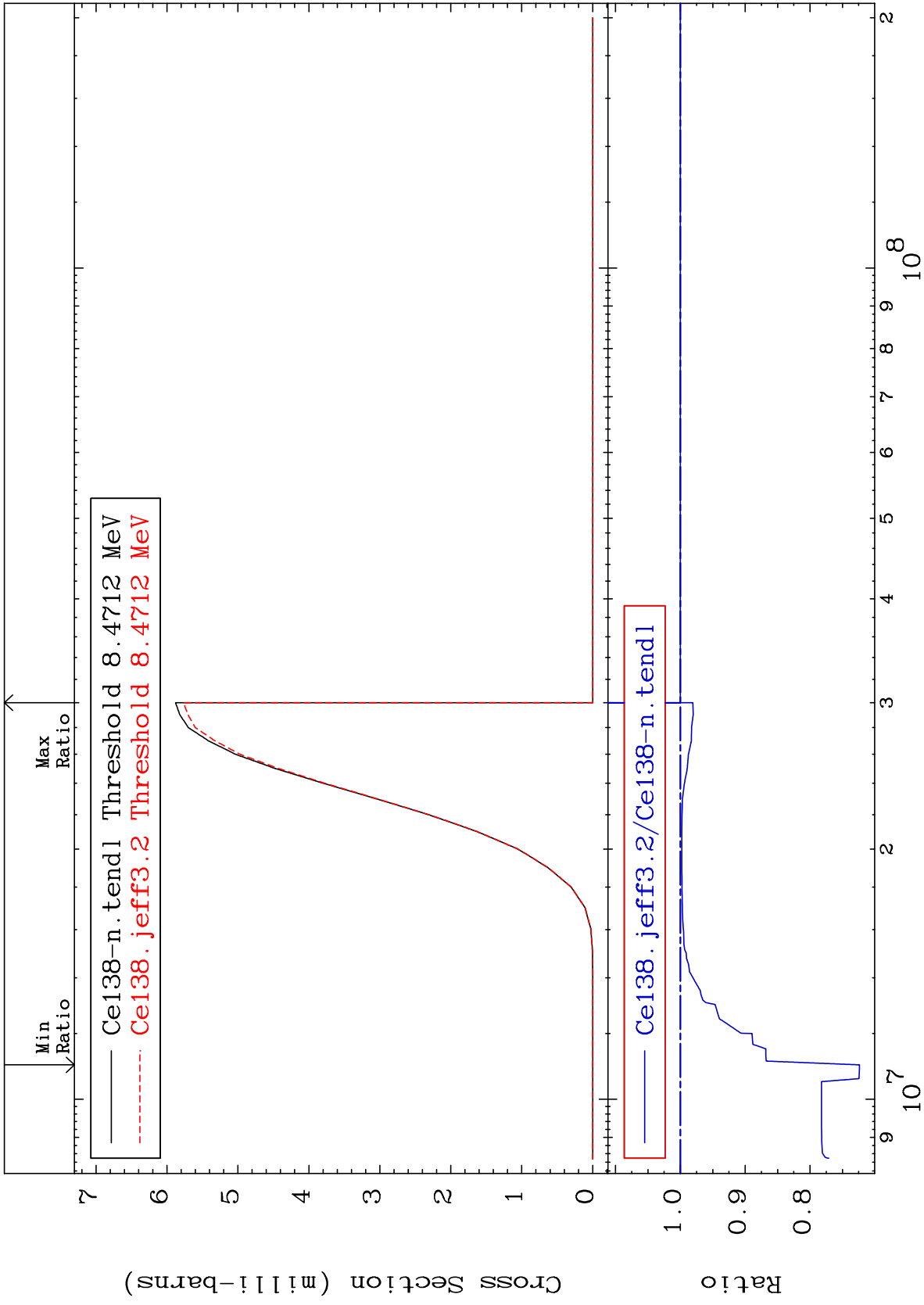
53

58-Ce-138

58-Ce-138

Cross Section

-27.62 To 0.000 %



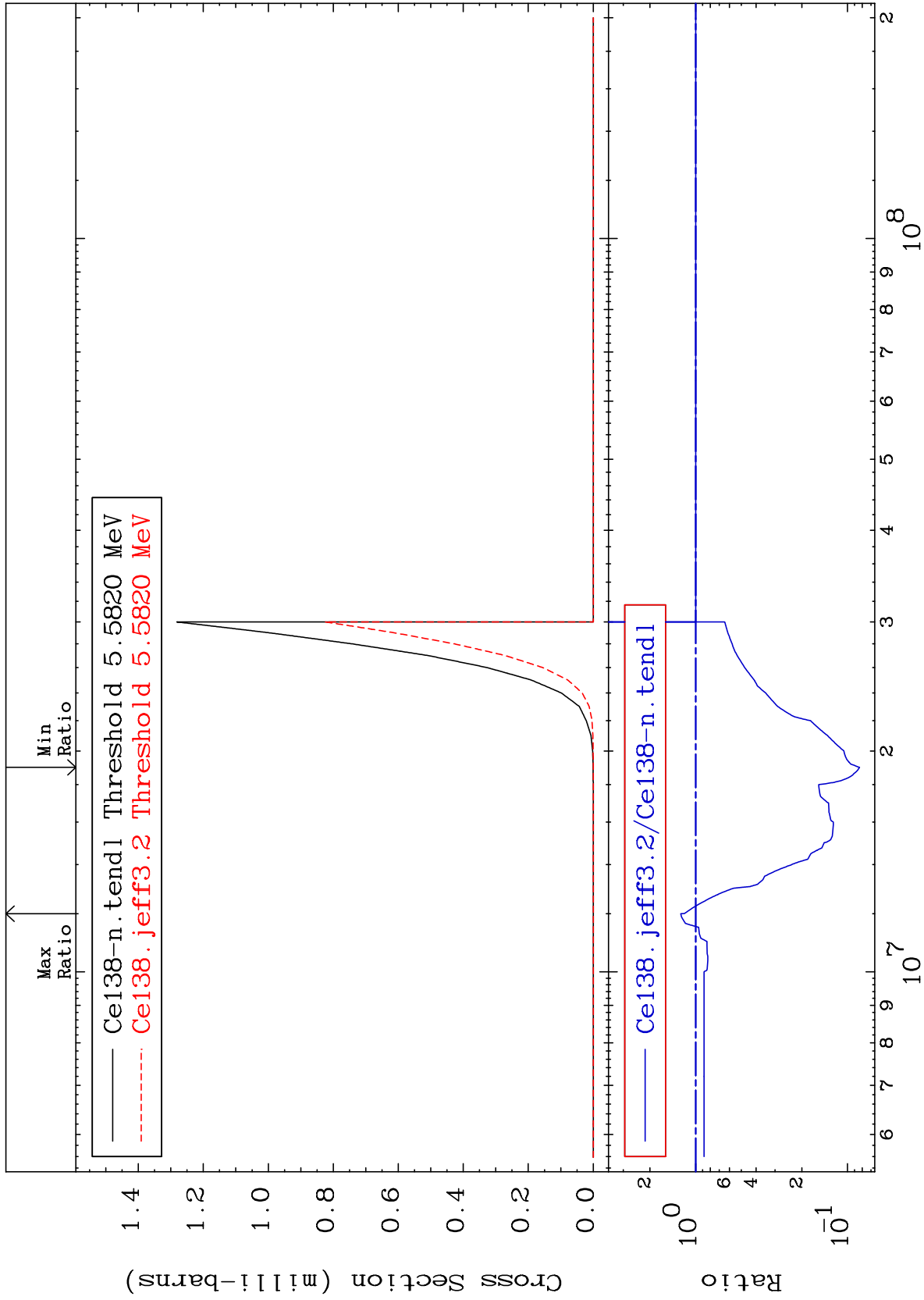
MAT 5831

(n, He-3)

58-Ce-138

Cross Section

-91.67 To 25.33 %



55

Incident Energy (eV)

58-Ce-138

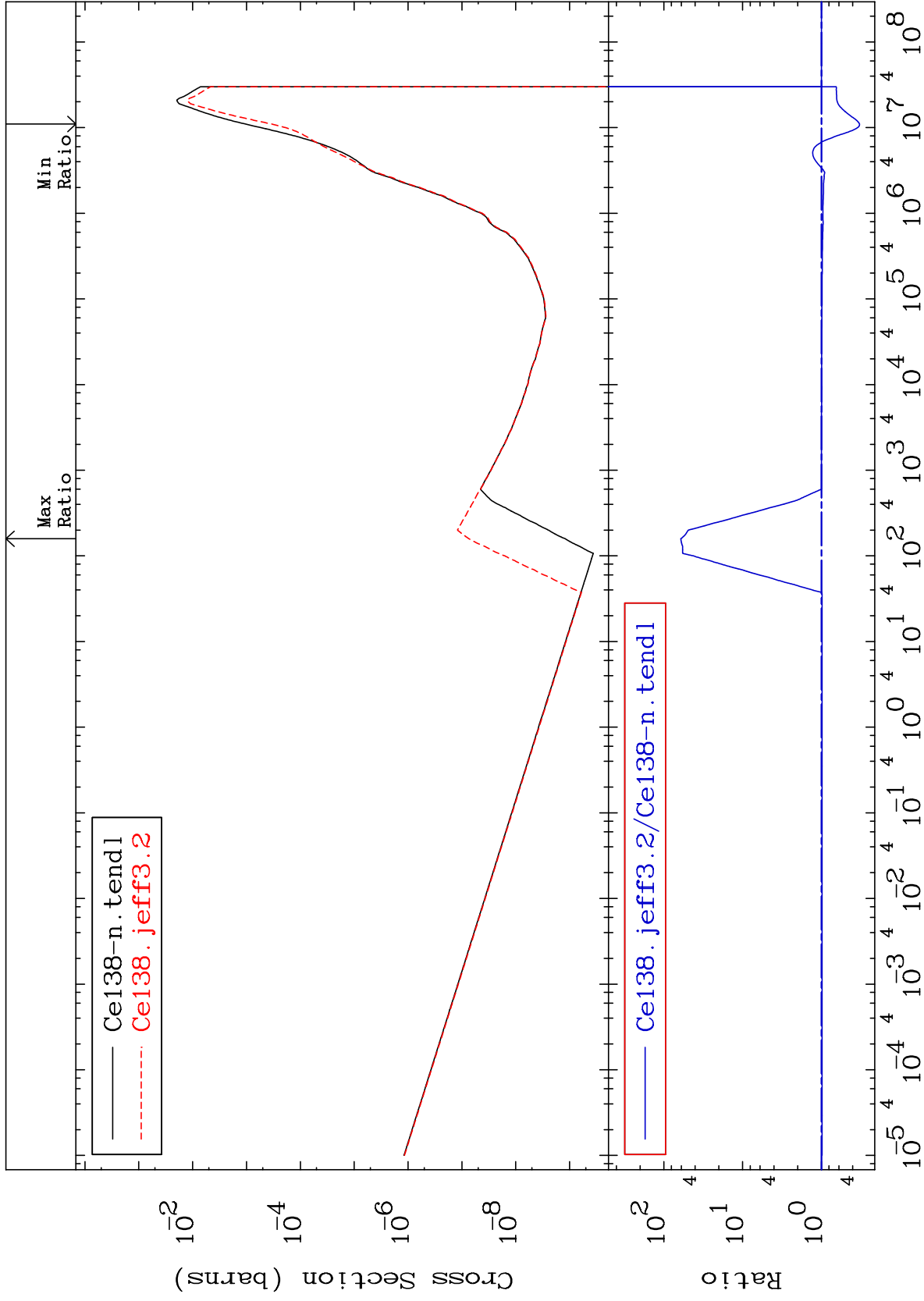
MAT 5831

(n, α)

58-Ce-138

Cross Section

-67.19 To 5988. %



56

Incident Energy (eV)

58-Ce-138

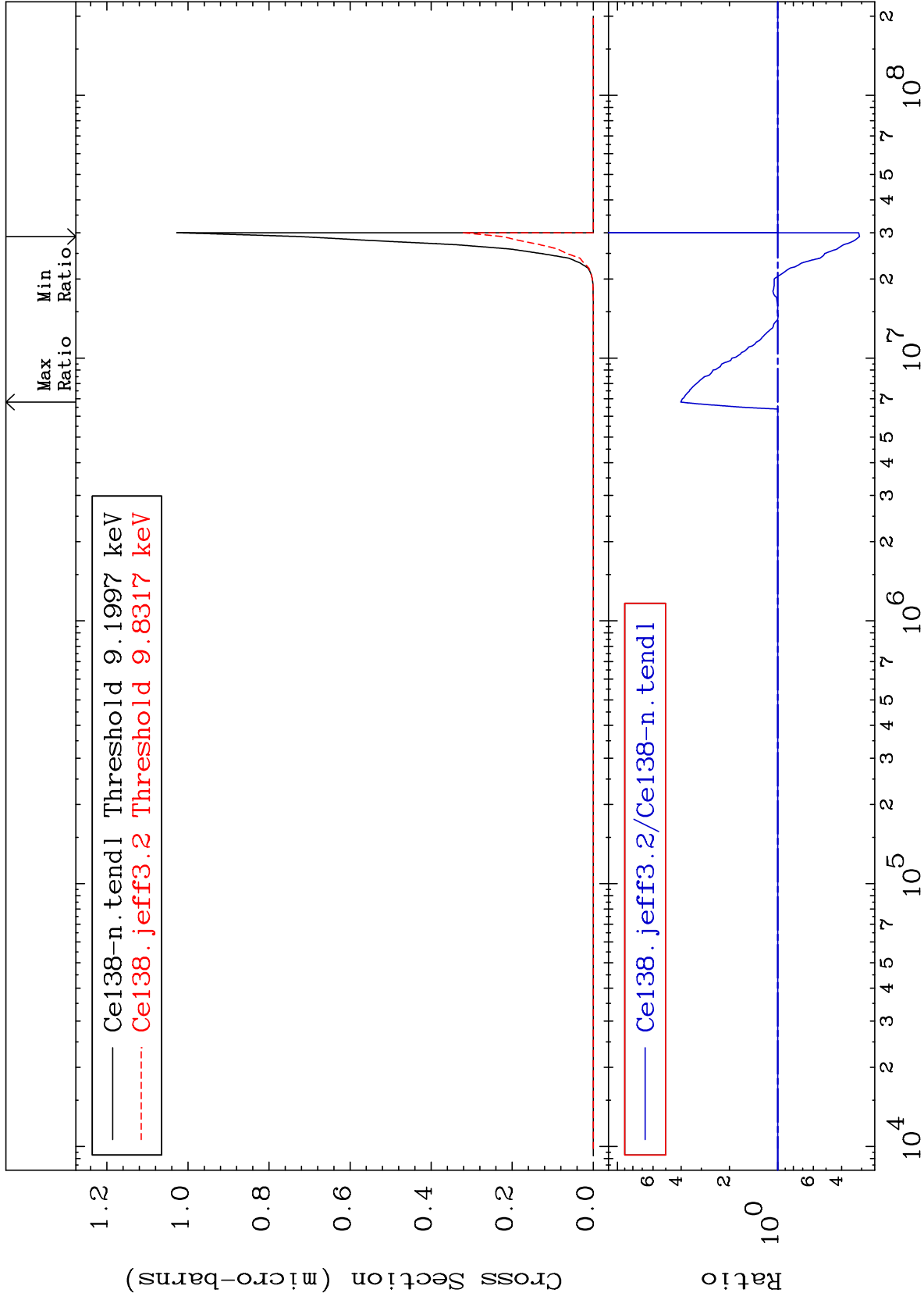
MAT 5831

(n,2α)

58-Ce-138

Cross Section

-69.07 To 302.6 %



57

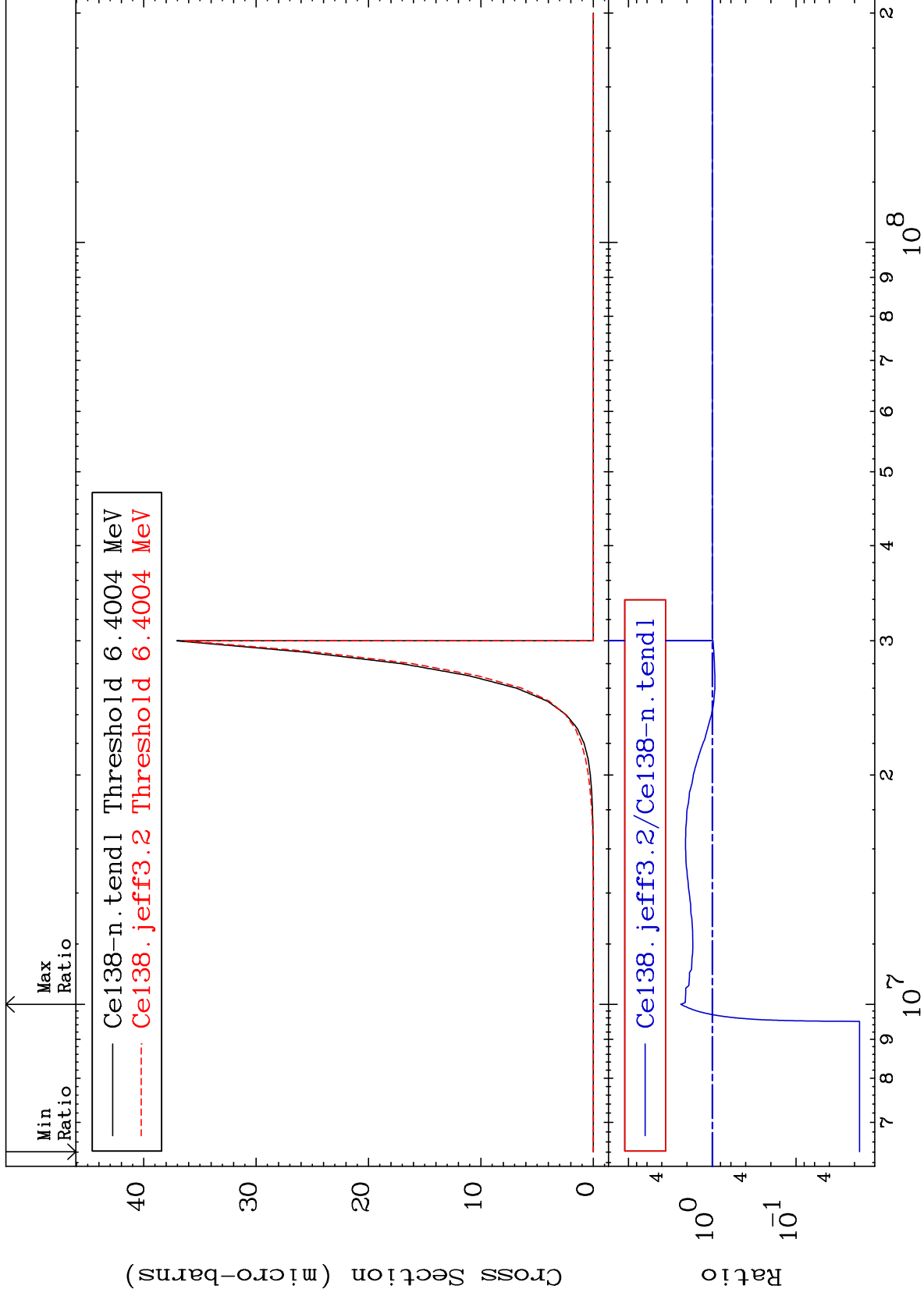
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,2p)
Cross Section

58-Ce-138
-98.25 To 137.6 %



58

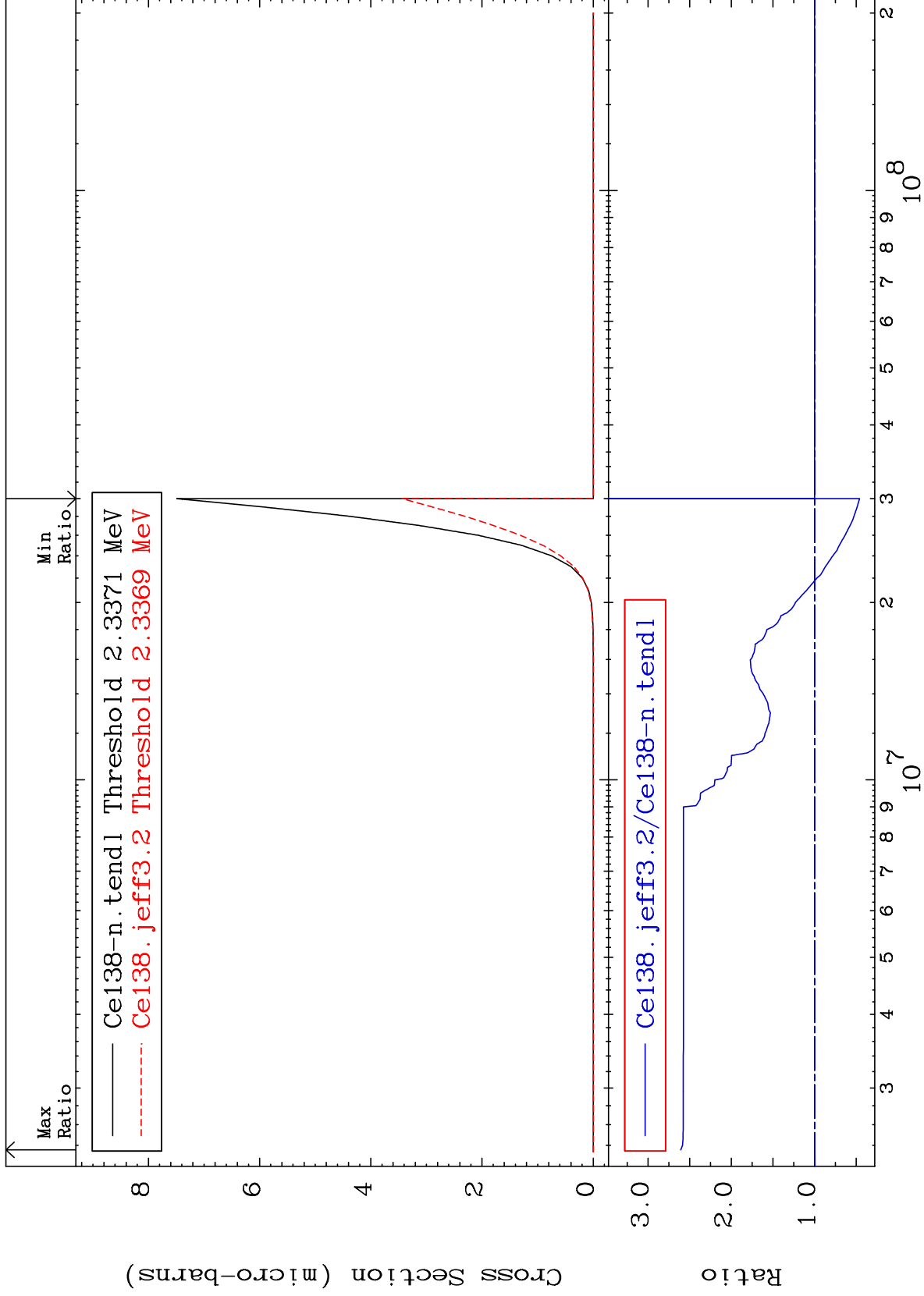
Incident Energy (eV)

58-Ce-138

MAT 5831

(n, p) α
Cross Section

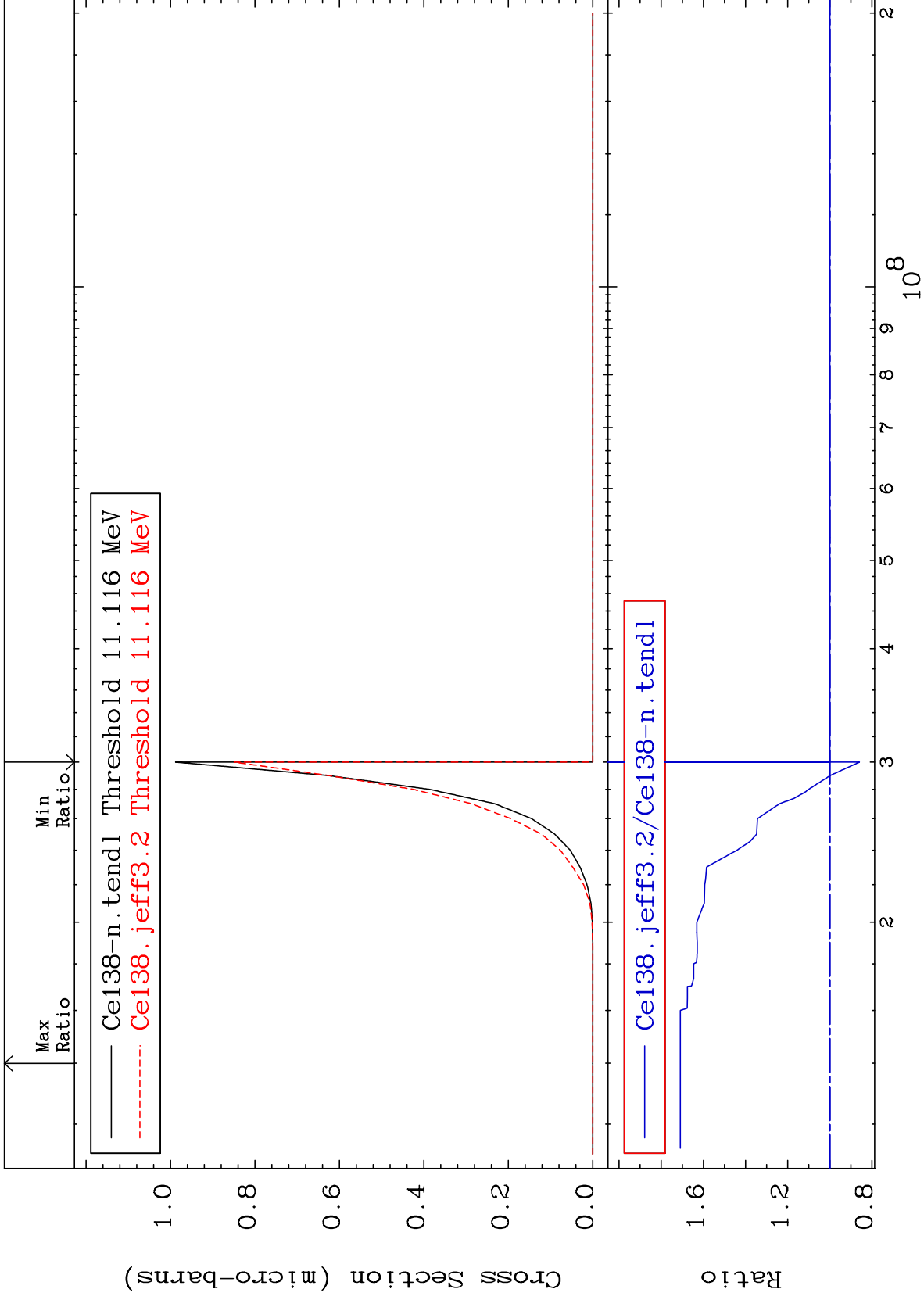
58-Ce-138
-54.08 To 160.6 %



MAT 5831

(n,p) d
Cross Section

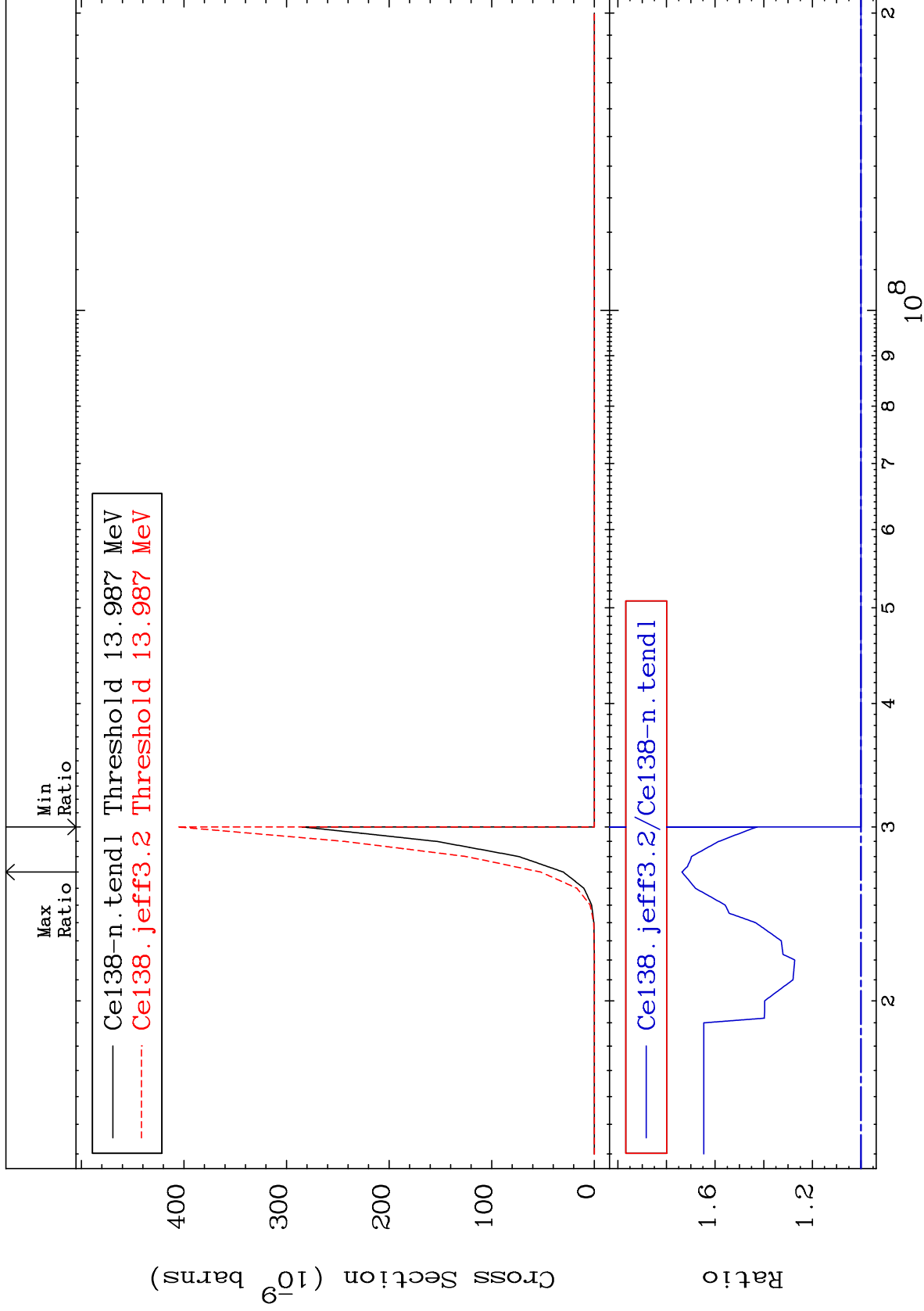
58-Ce-138
-14.06 To 70.92 %



MAT 5831

(n,p) t
Cross Section

58-Ce-138
To 73.66 %



61

Incident Energy (eV)

58-Ce-138

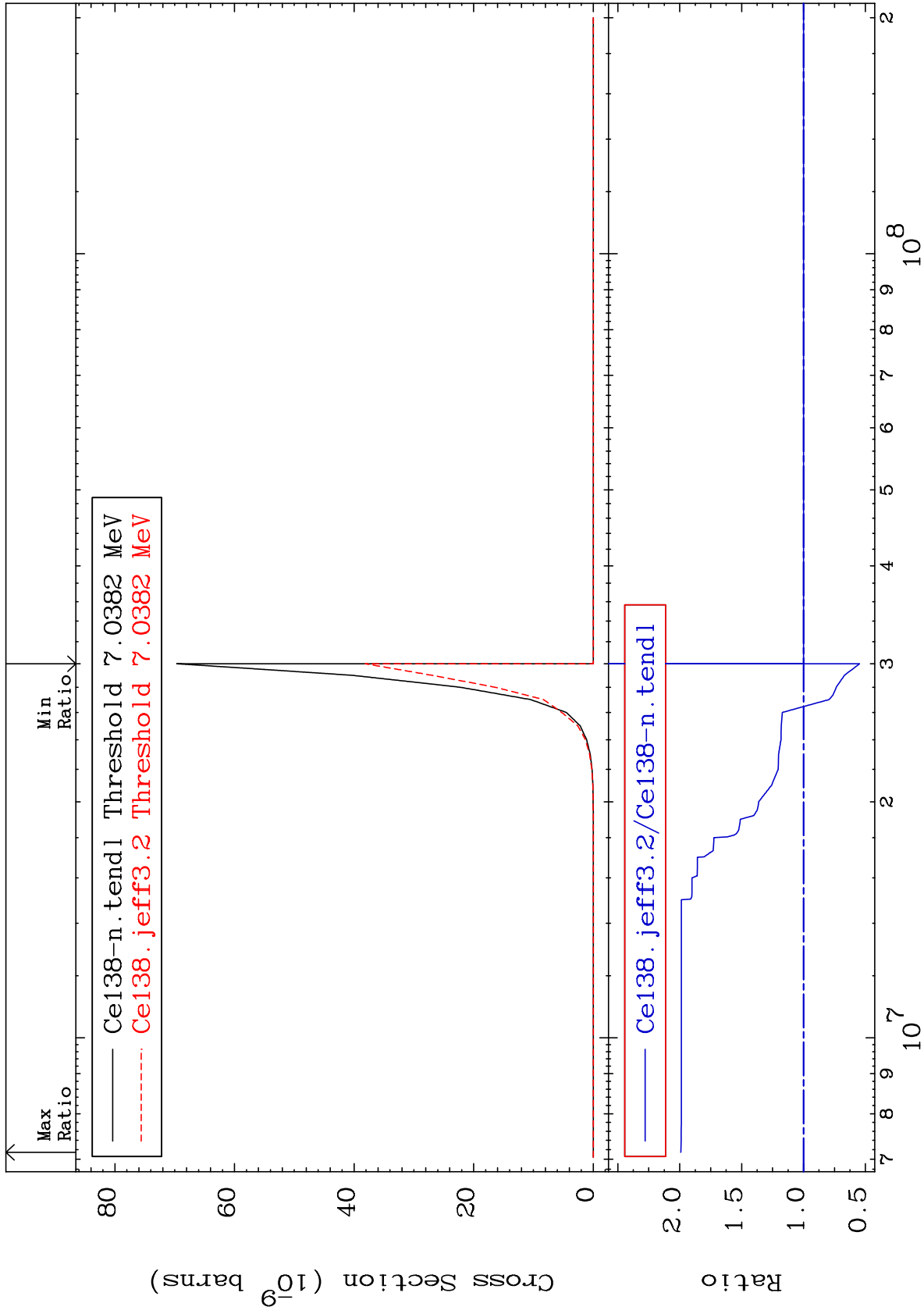
MAT 5831

(n, d) α

58-Ce-138

Cross Section

-45.24 To 99.15 %



62

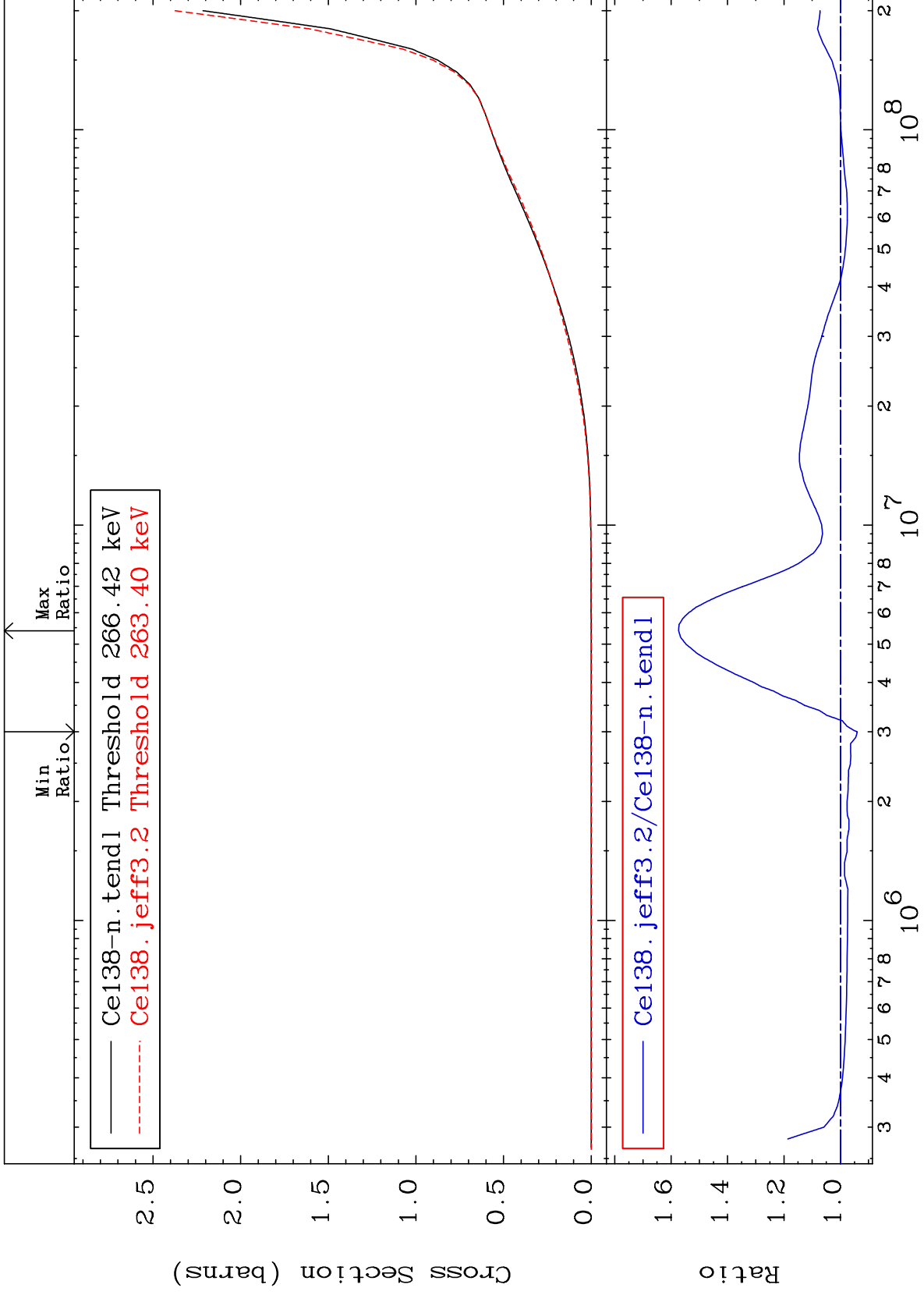
Incident Energy (eV)

58-Ce-138

MAT 5831

Hydrogen Production
Cross Section

58-Ce-138
-5.990 To 57.34 %



63

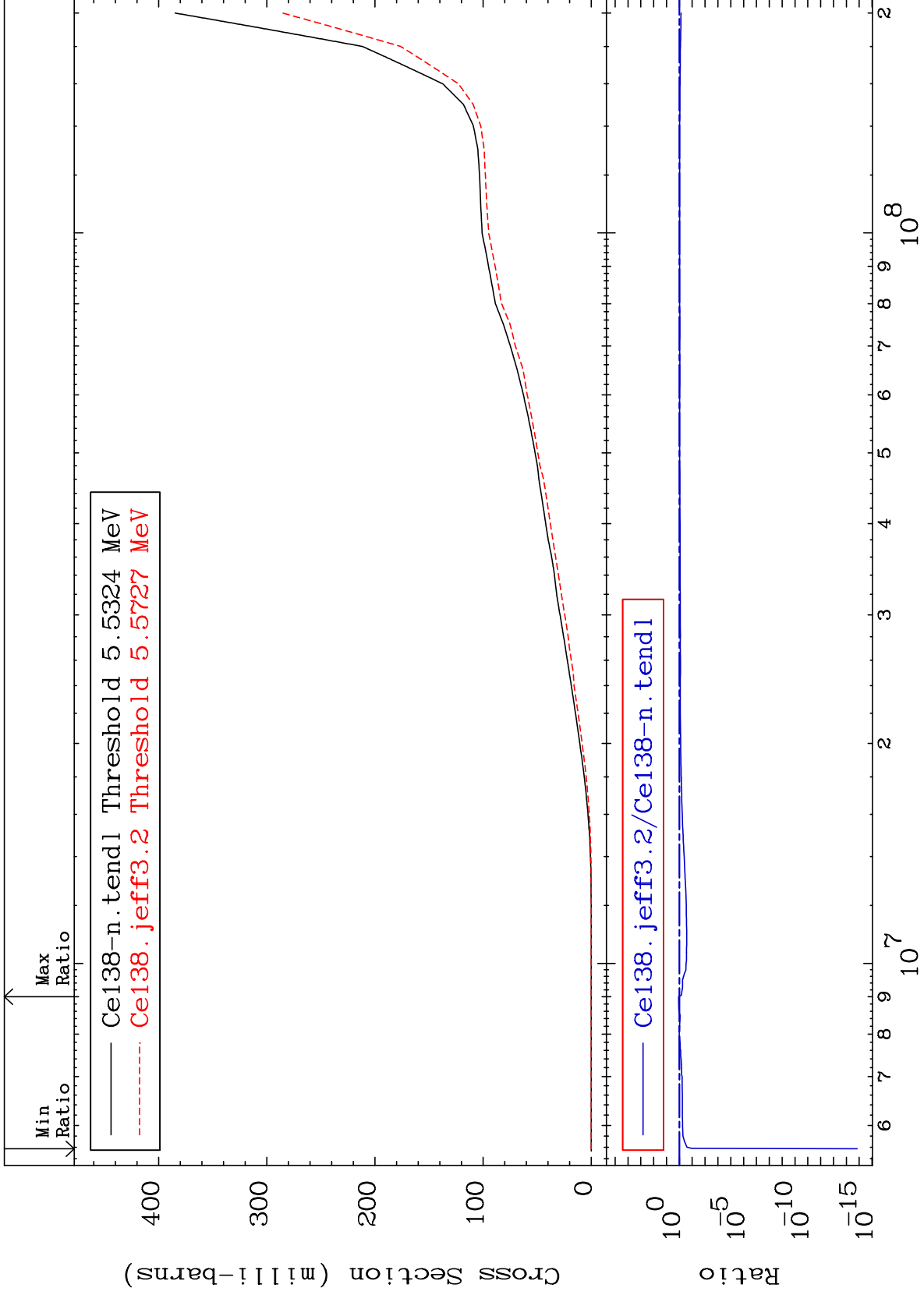
Incident Energy (eV)

58-Ce-138

MAT 5831

Deuterium Production
Cross Section

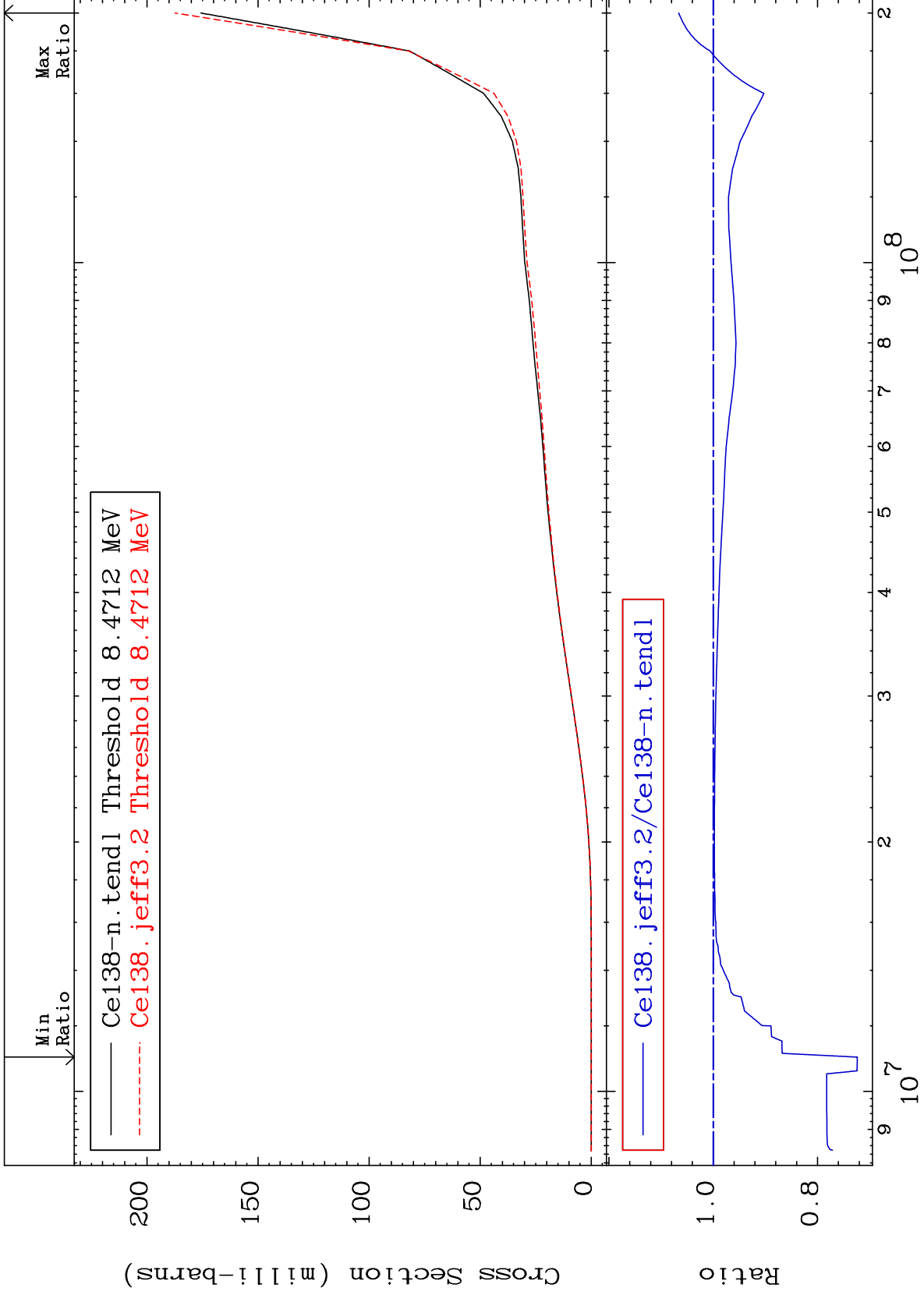
58-Ce-138
-100.0 To 13.64 %



MAT 5831

Tritium Production
Cross Section

58-Ce-138
-27.62 To 6.633 %



65

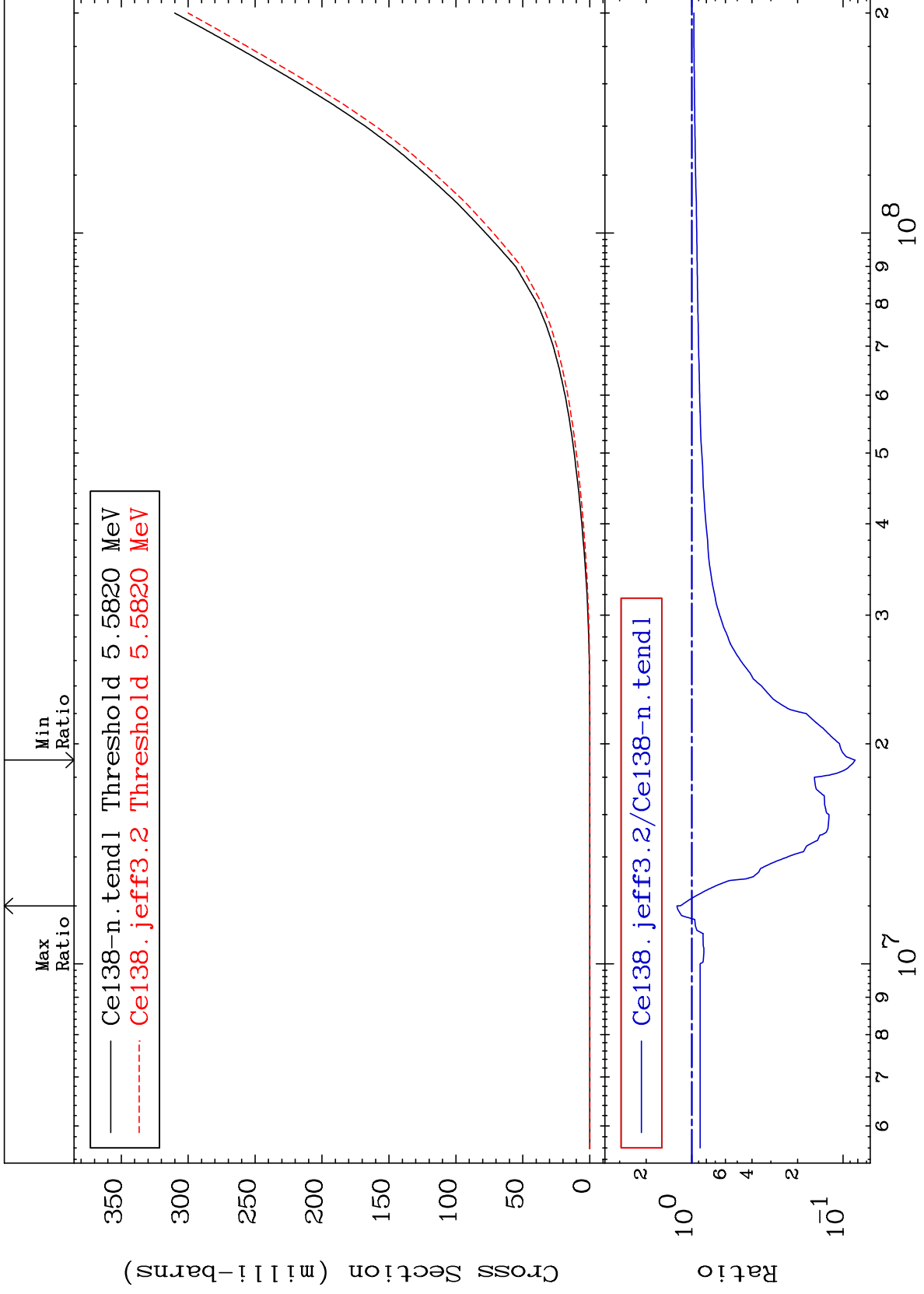
Incident Energy (eV)

58-Ce-138

MAT 5831

He-3 Production
Cross Section

58-Ce-138
-91.67 To 25.33 %



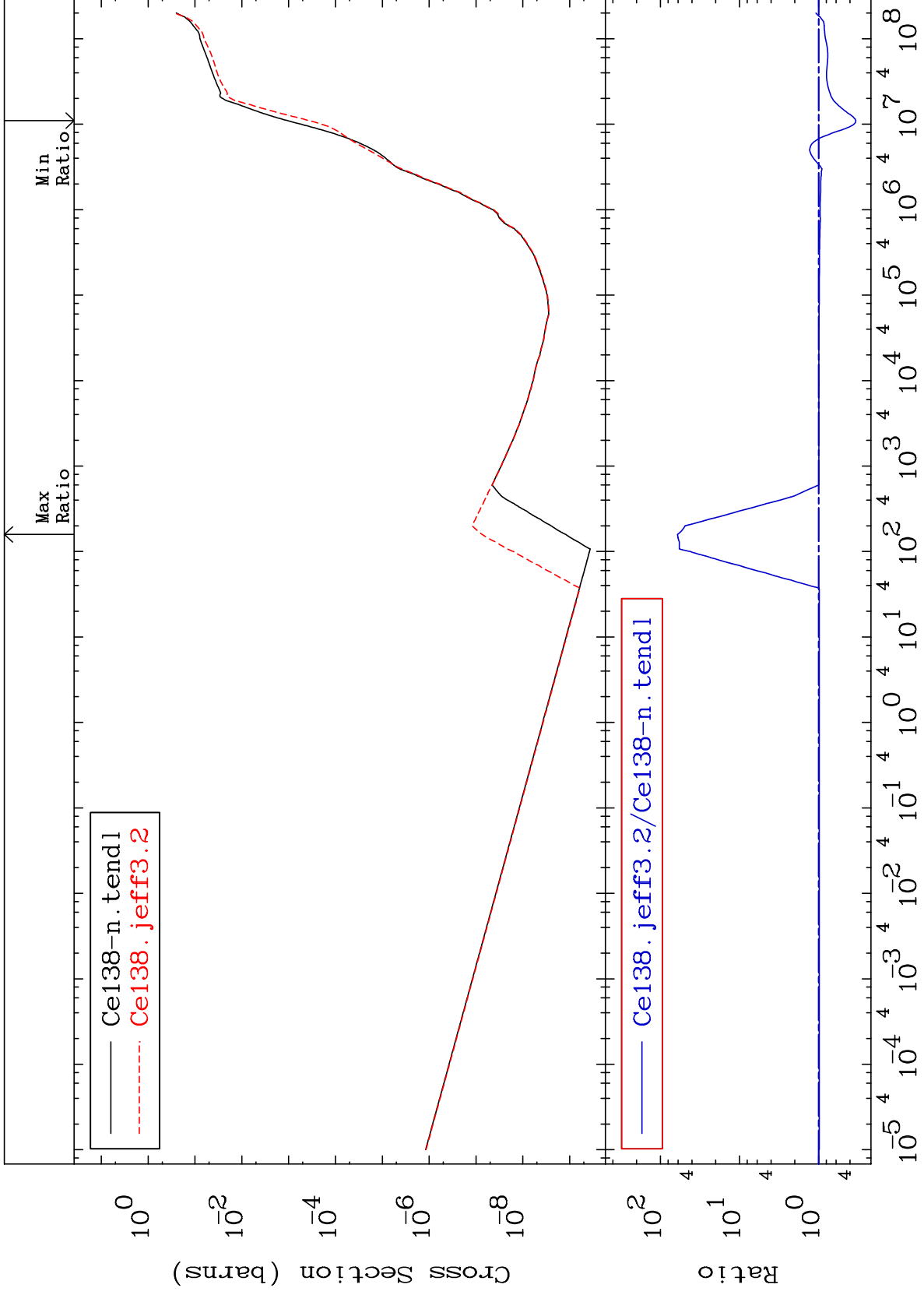
66

58-Ce-138

MAT 5831

He-4 Production
Cross Section

58-Ce-138
-66.14 To 5988. %



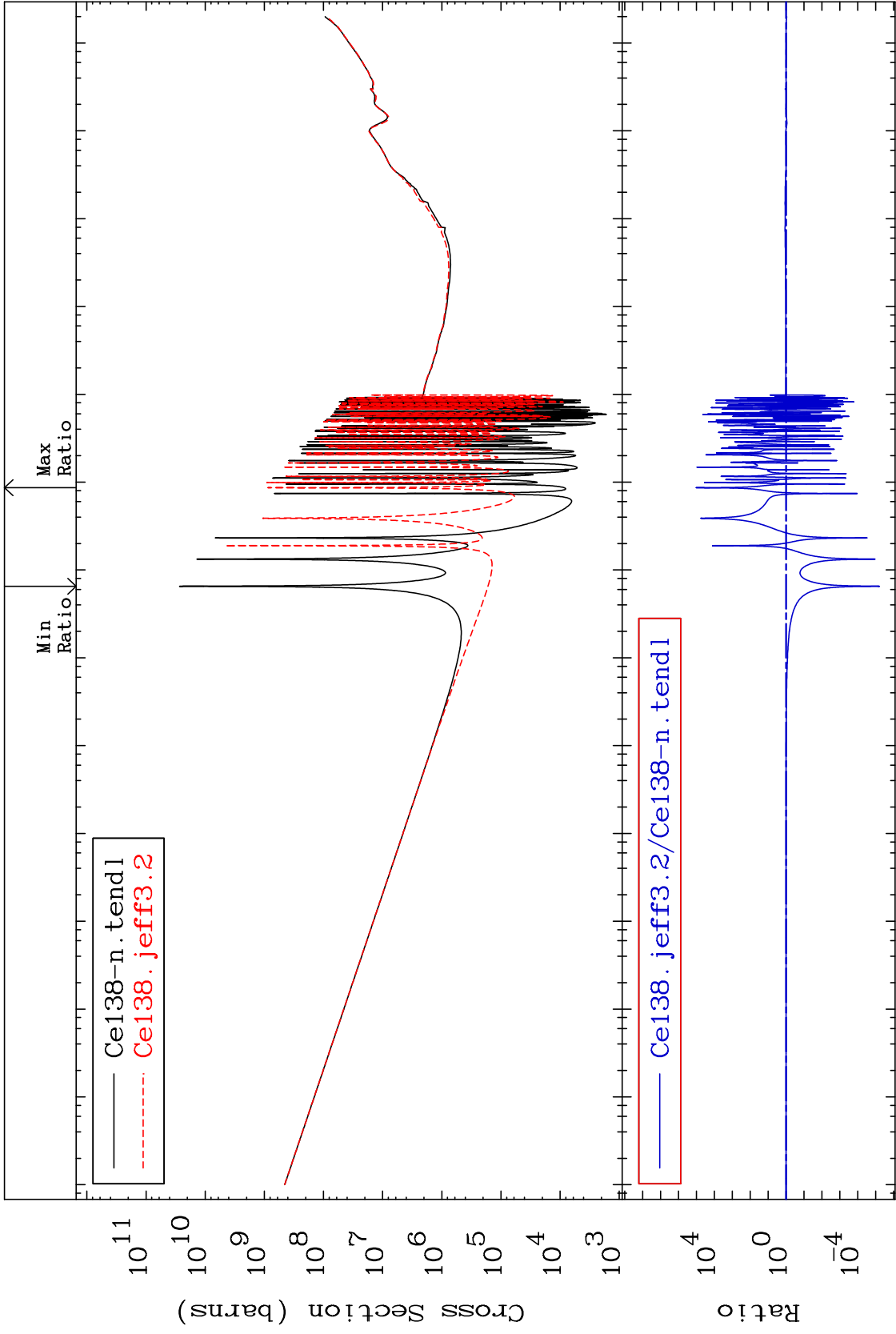
MAT 5831

Kerma total (eV-barns)

58-Ce-138

-100.0 To 9999. %

Cross Section



68

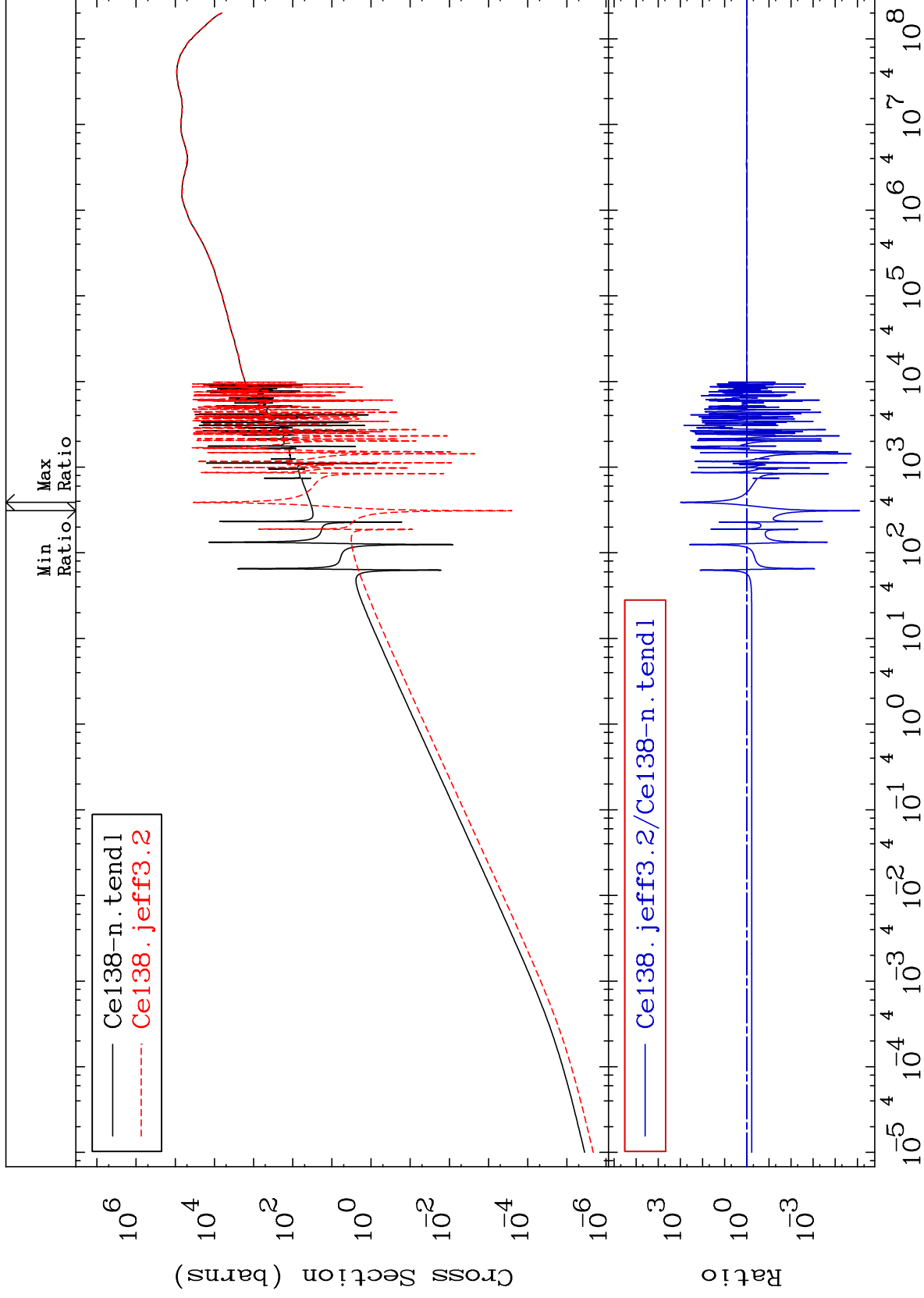
Incident Energy (eV)

58-Ce-138

MAT 5831

Kerma elastic
Cross Section

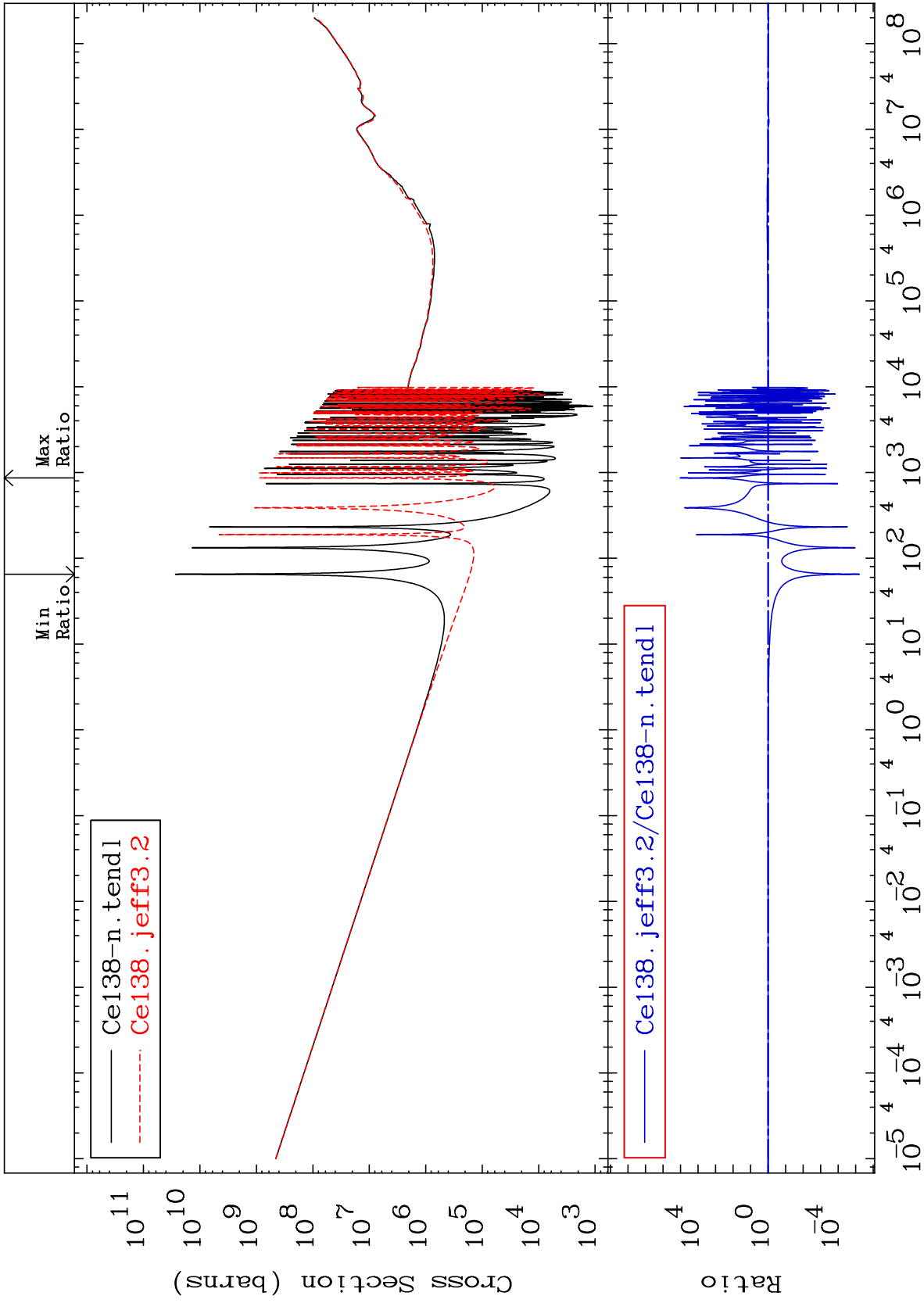
58-Ce-138
-100.0 To 9999. %



MAT 5831

Kerma non-elastic (all but mt2)
Cross Section

58-Ce-138
-100.0 To 9999. %



70

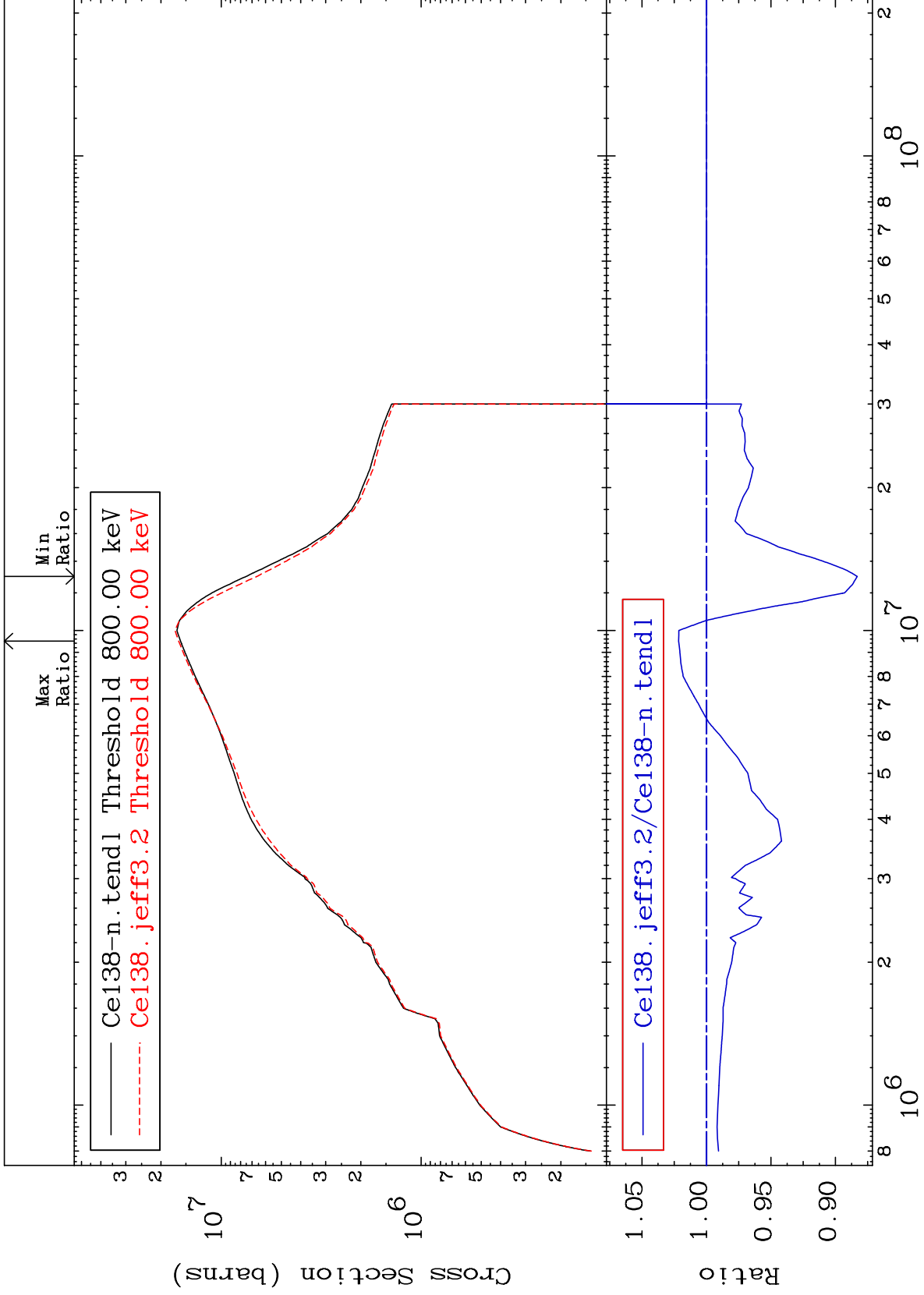
Incident Energy (eV)

58-Ce-138

MAT 5831

Kerma inelastic (mt51-91)
Cross Section

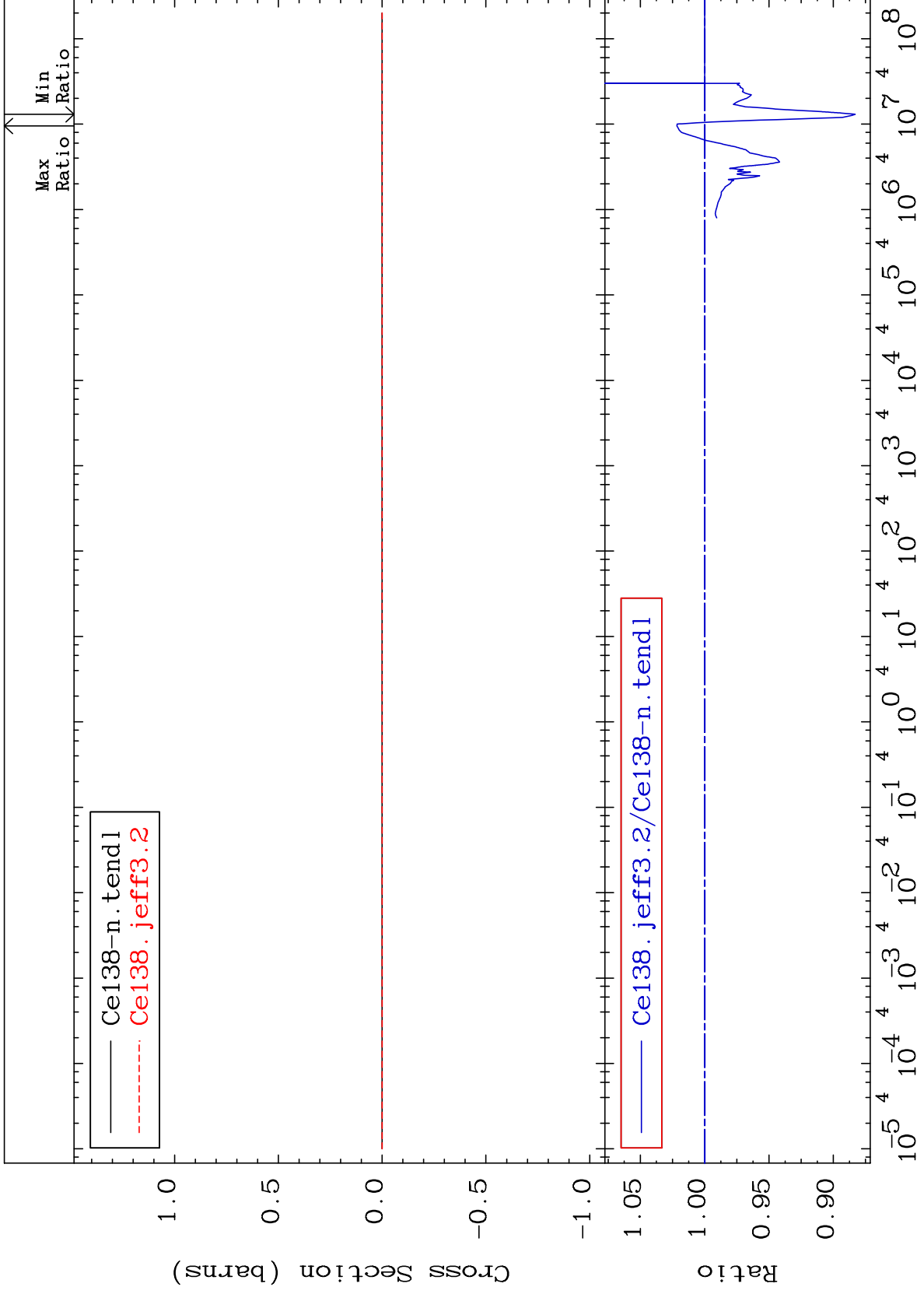
58-Ce-138
-11.69 To 2.158 %



MAT 5831

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

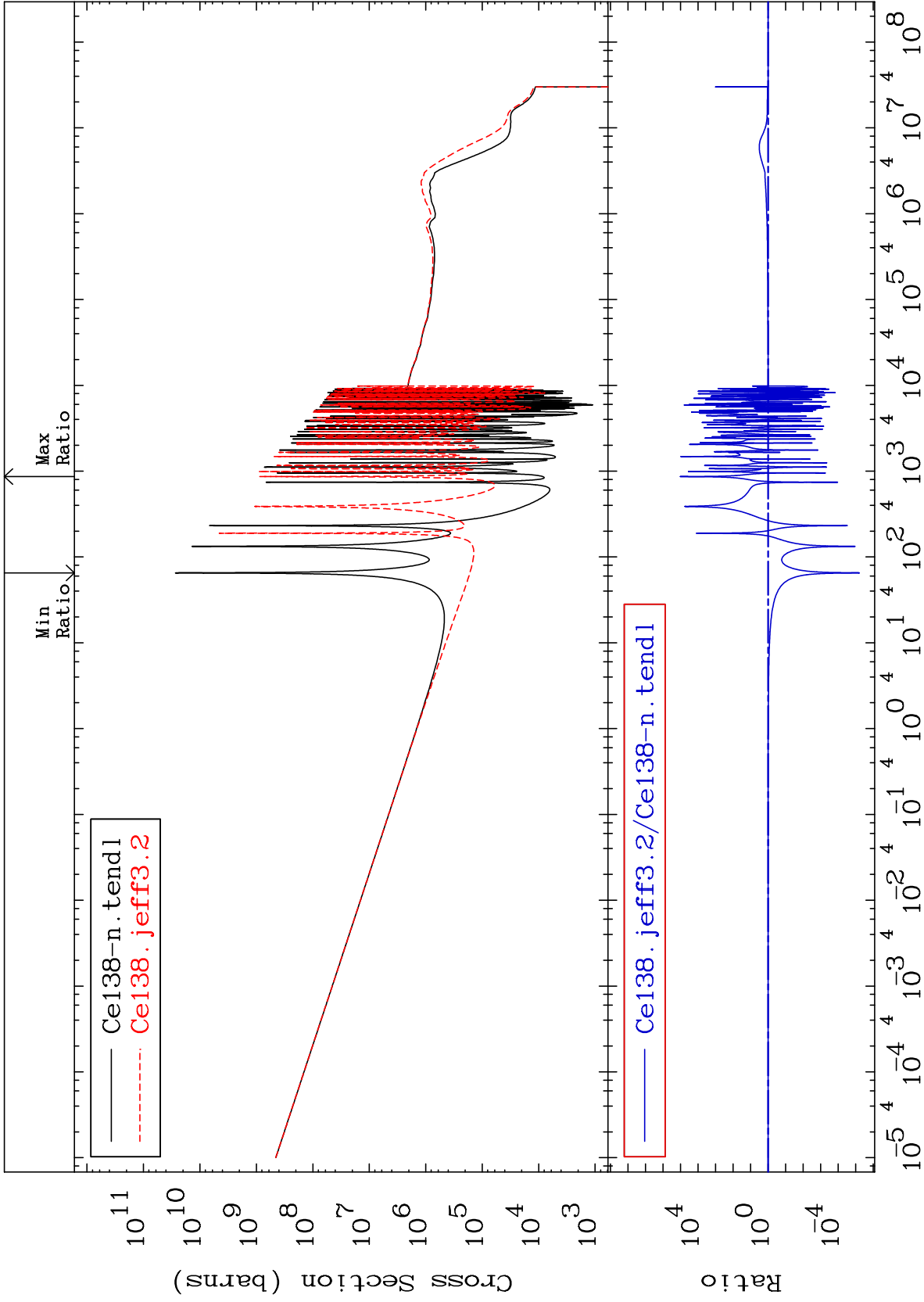
58-Ce-138
-11.69 To 2.158 %



MAT 5831

Kerma capture (mt102)
Cross Section

58-Ce-138
-100.0 To 9999. %



73

Incident Energy (eV)

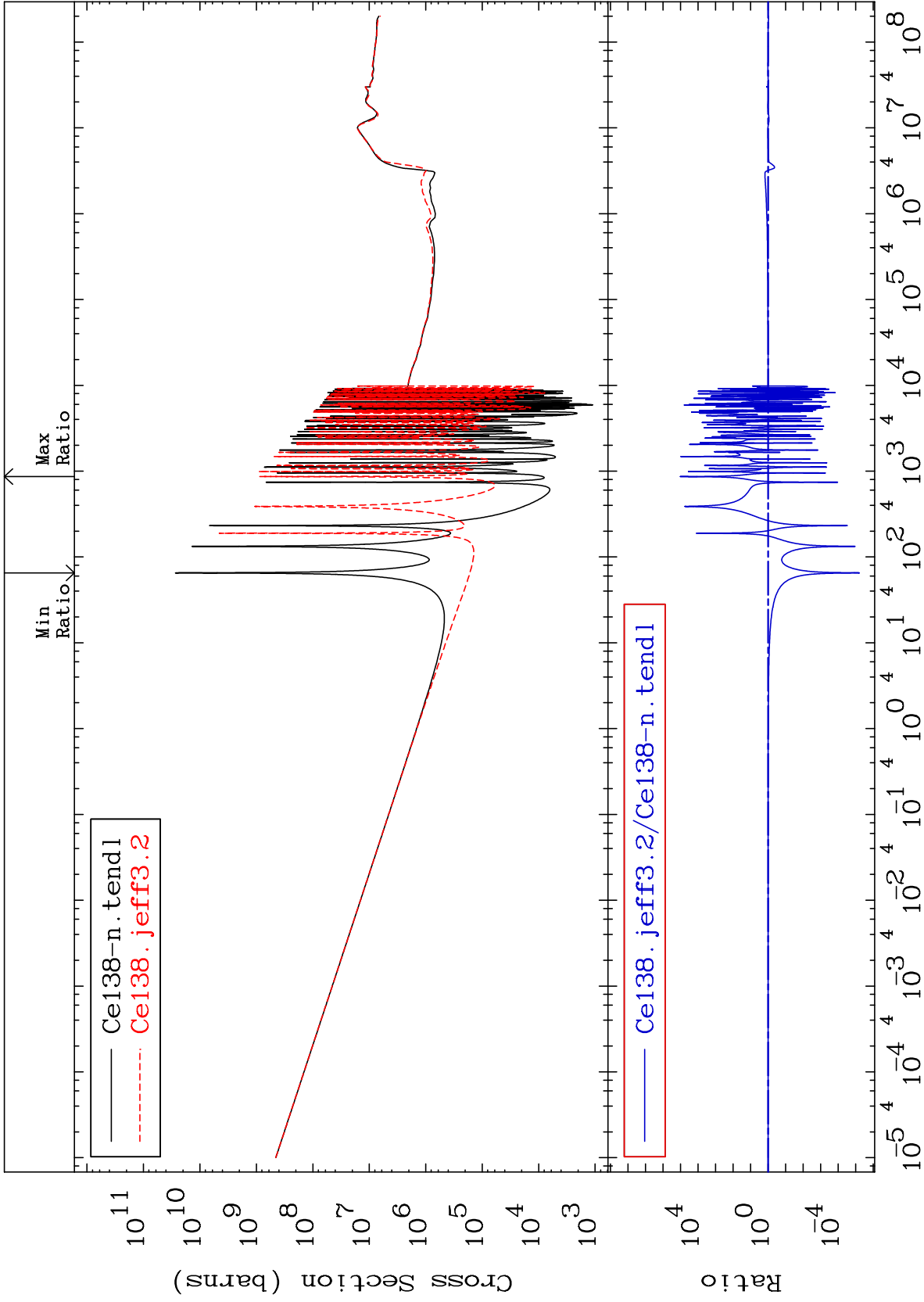
58-Ce-138

MAT 5831

Total photon (eV-barns)

58-Ce-138

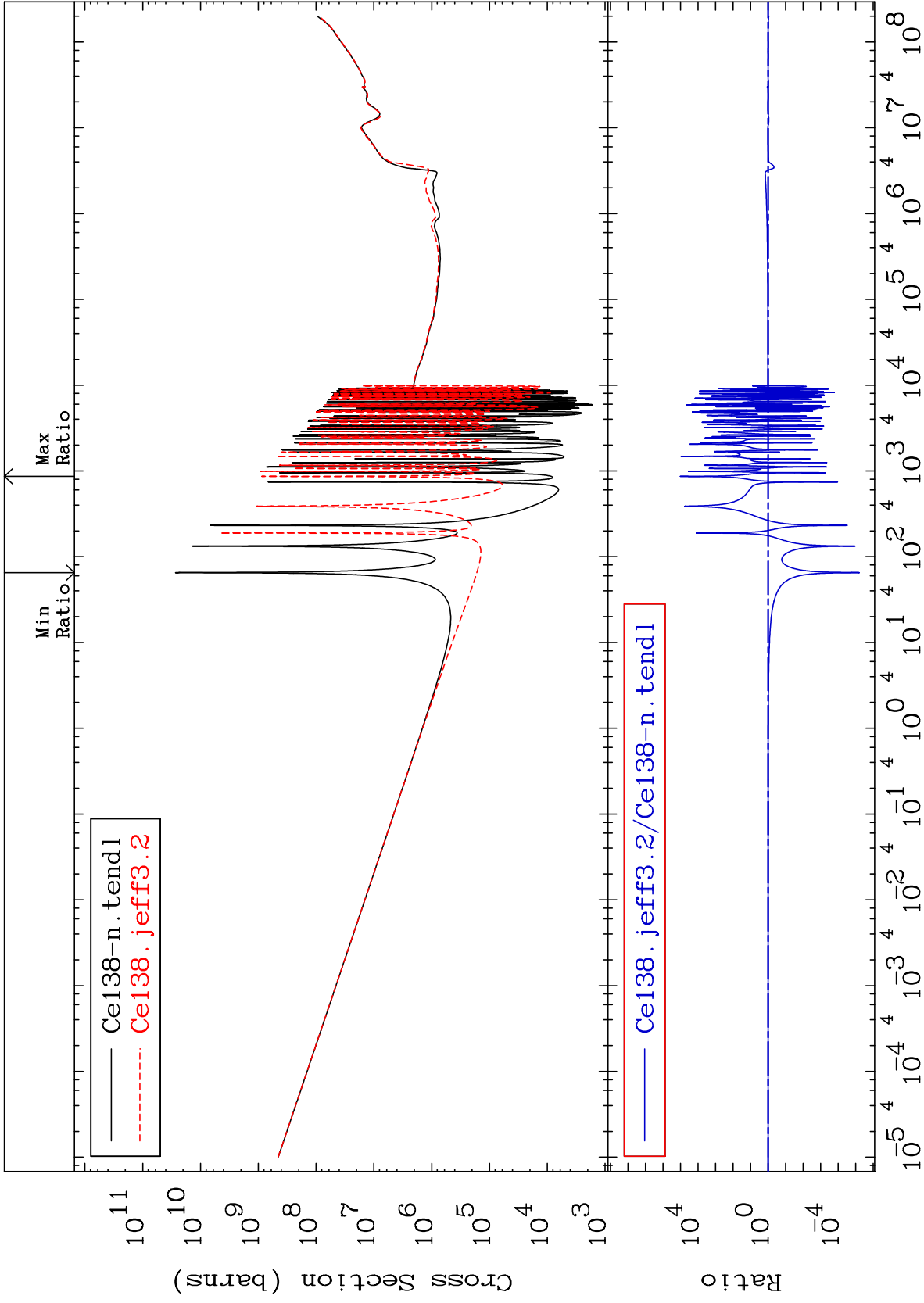
-100.0 To 9999. %



74

Incident Energy (eV)

58-Ce-138



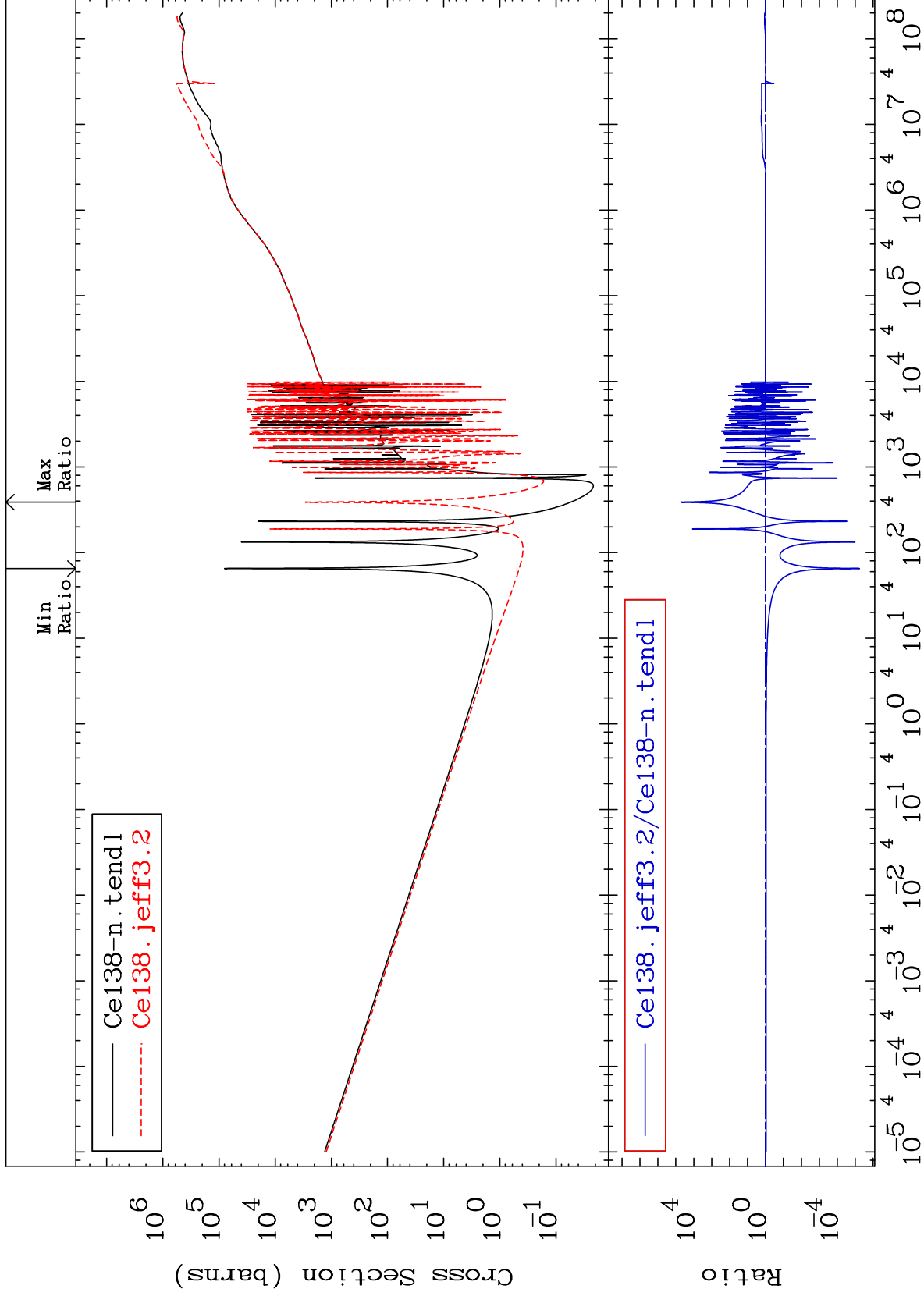
MAT 5831

Dpa total (eV-barns)

58-Ce-138

-100.0 To 9999. %

Cross Section



76

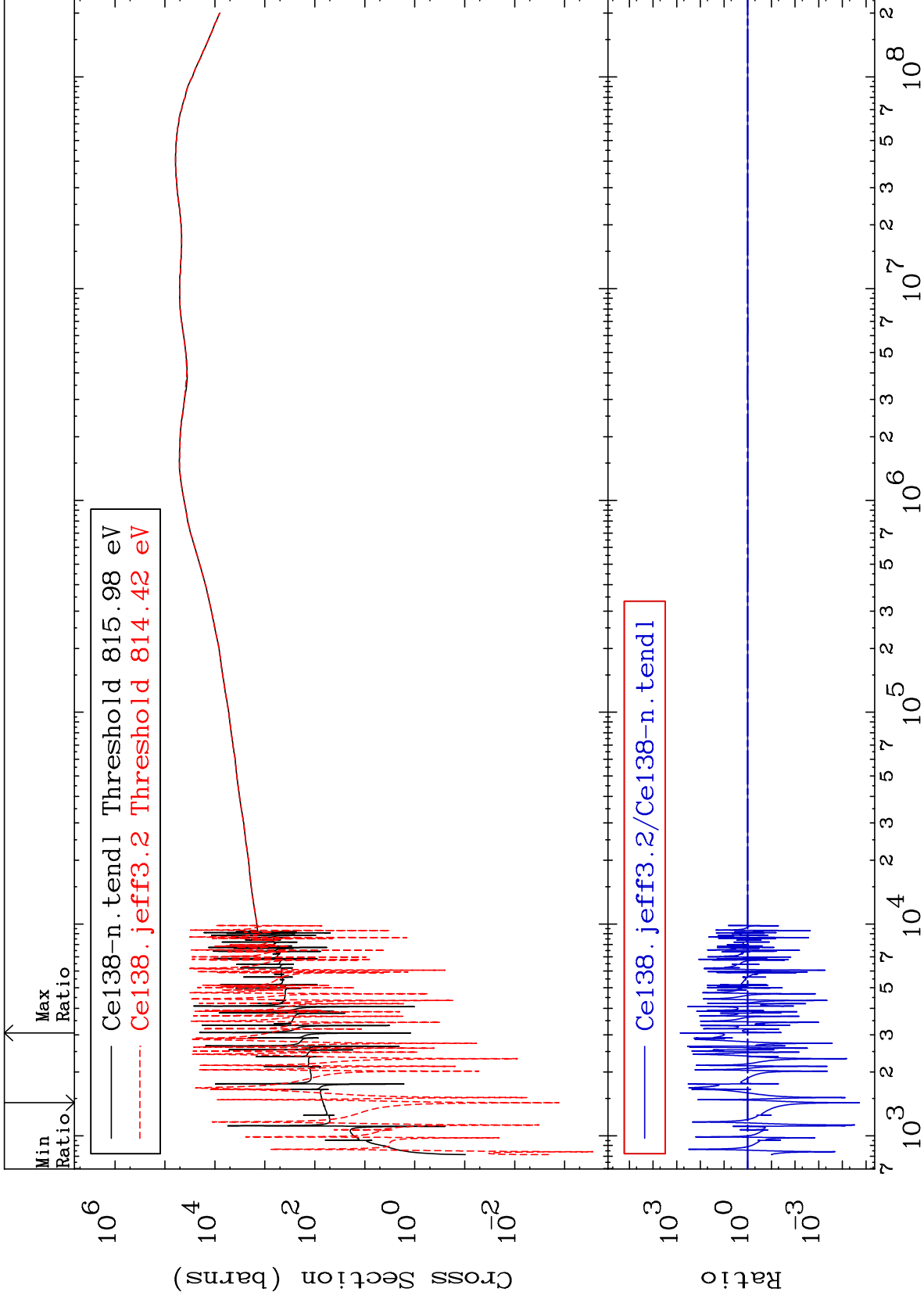
Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa elastic (mt2)
Cross Section

58-Ce-138
-100.0 To 9999. %



77

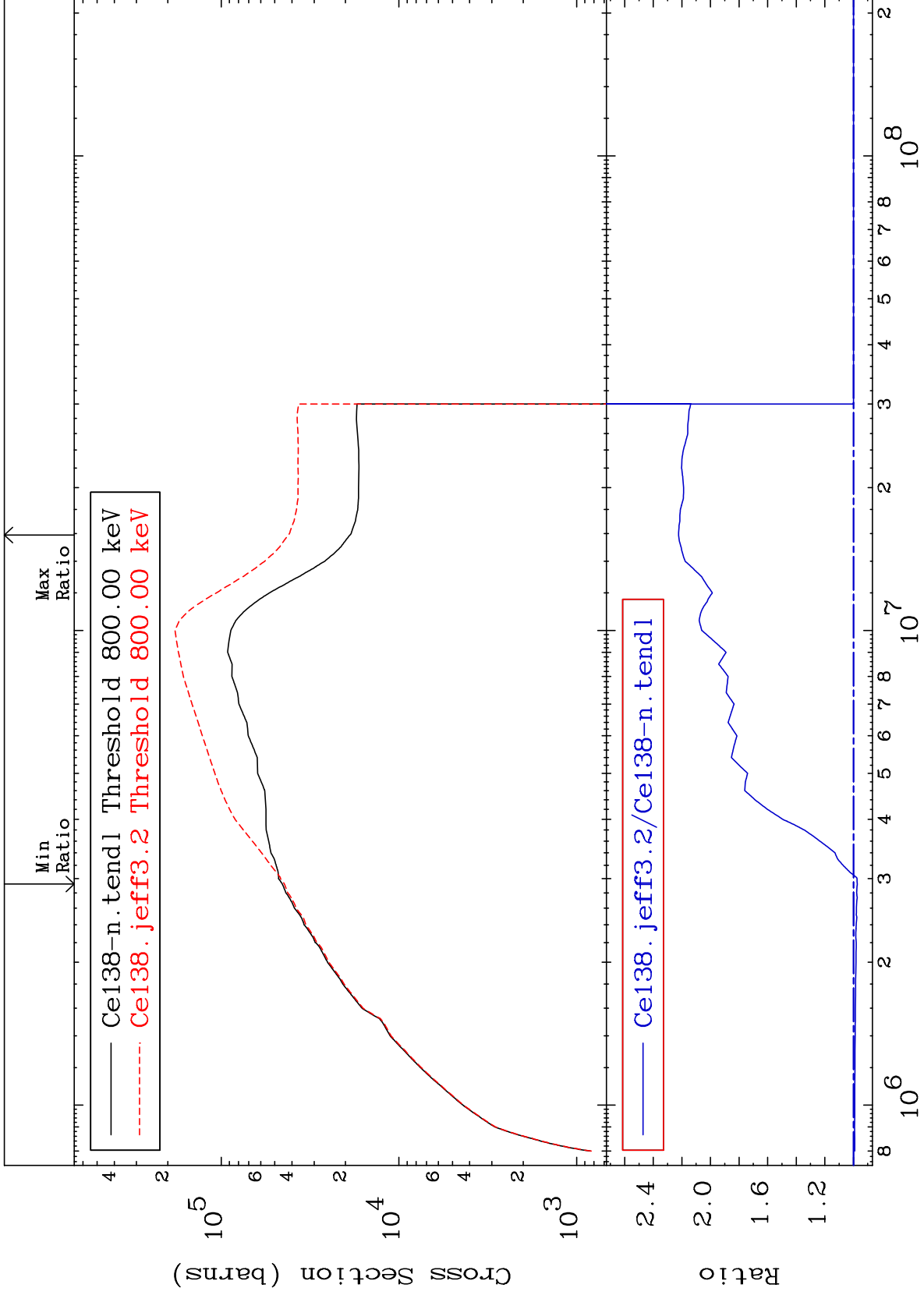
Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa inelastic (mt51-91)
Cross Section

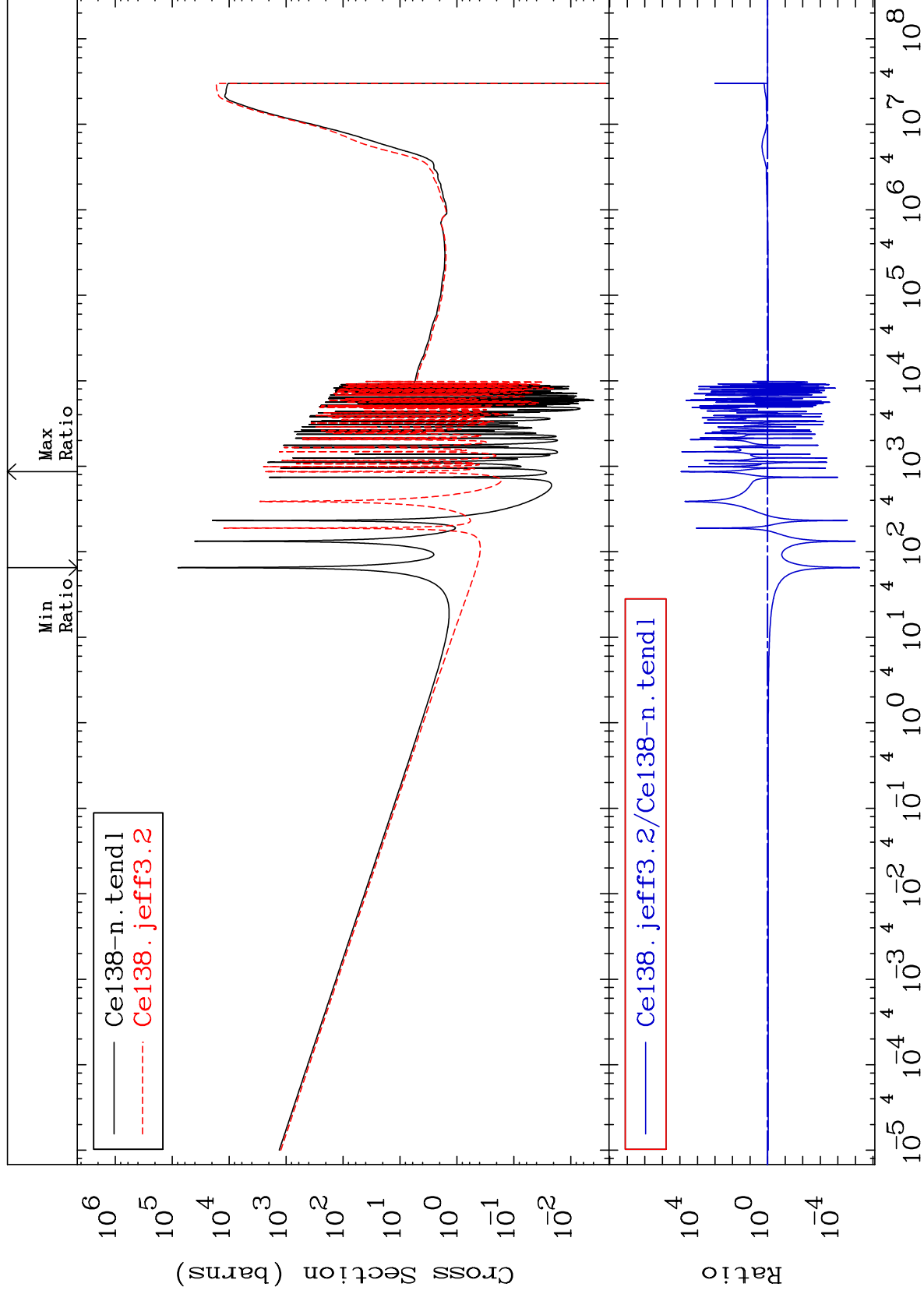
58-Ce-138
-2.675 To 122.3 %



78

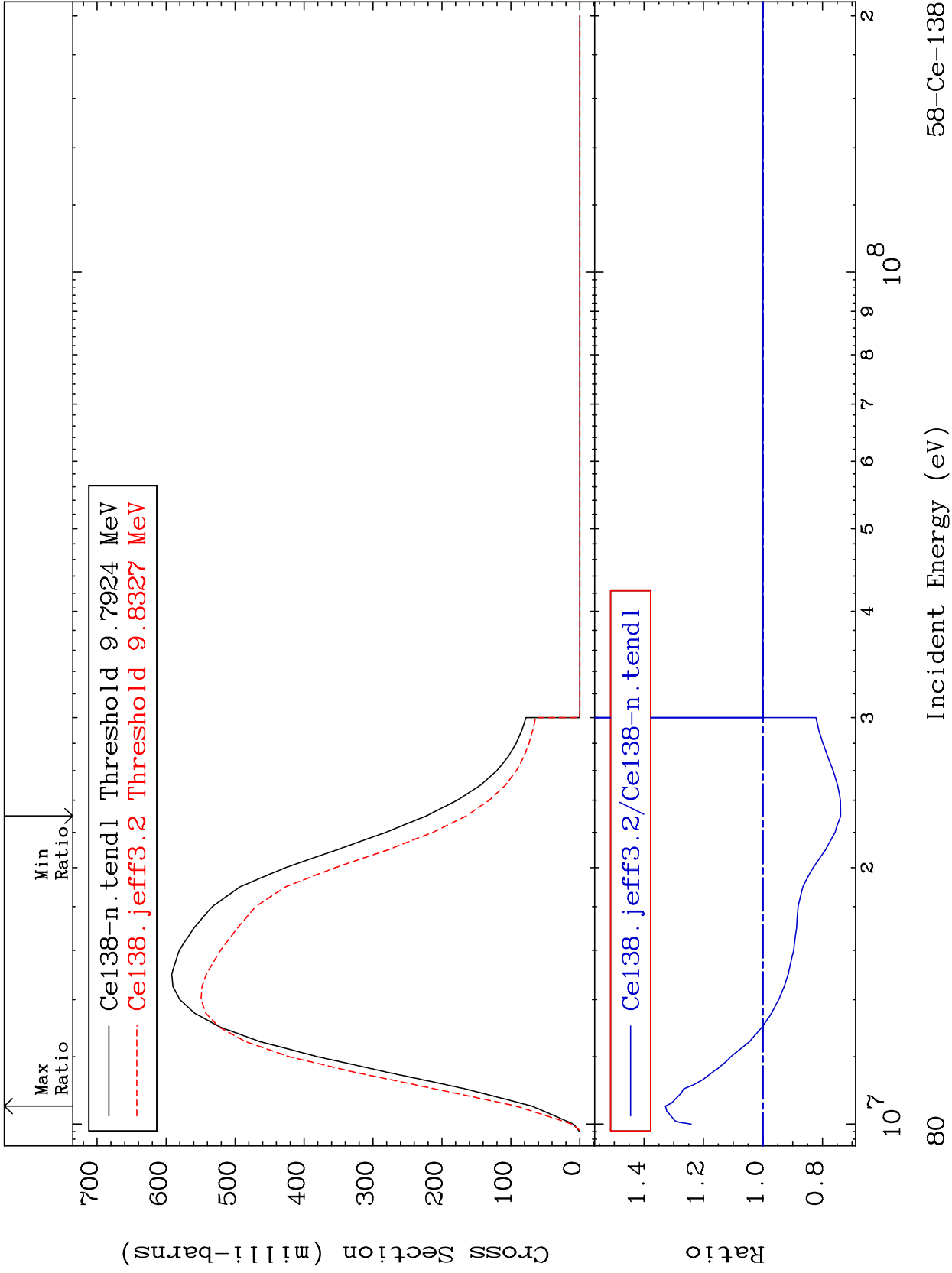
Incident Energy (eV)

58-Ce-138



MAT 5831

(n,2n):58-Ce-137g 58-Ce-138
Radionuclide Production Cross Section -26.14 To 32.77 %

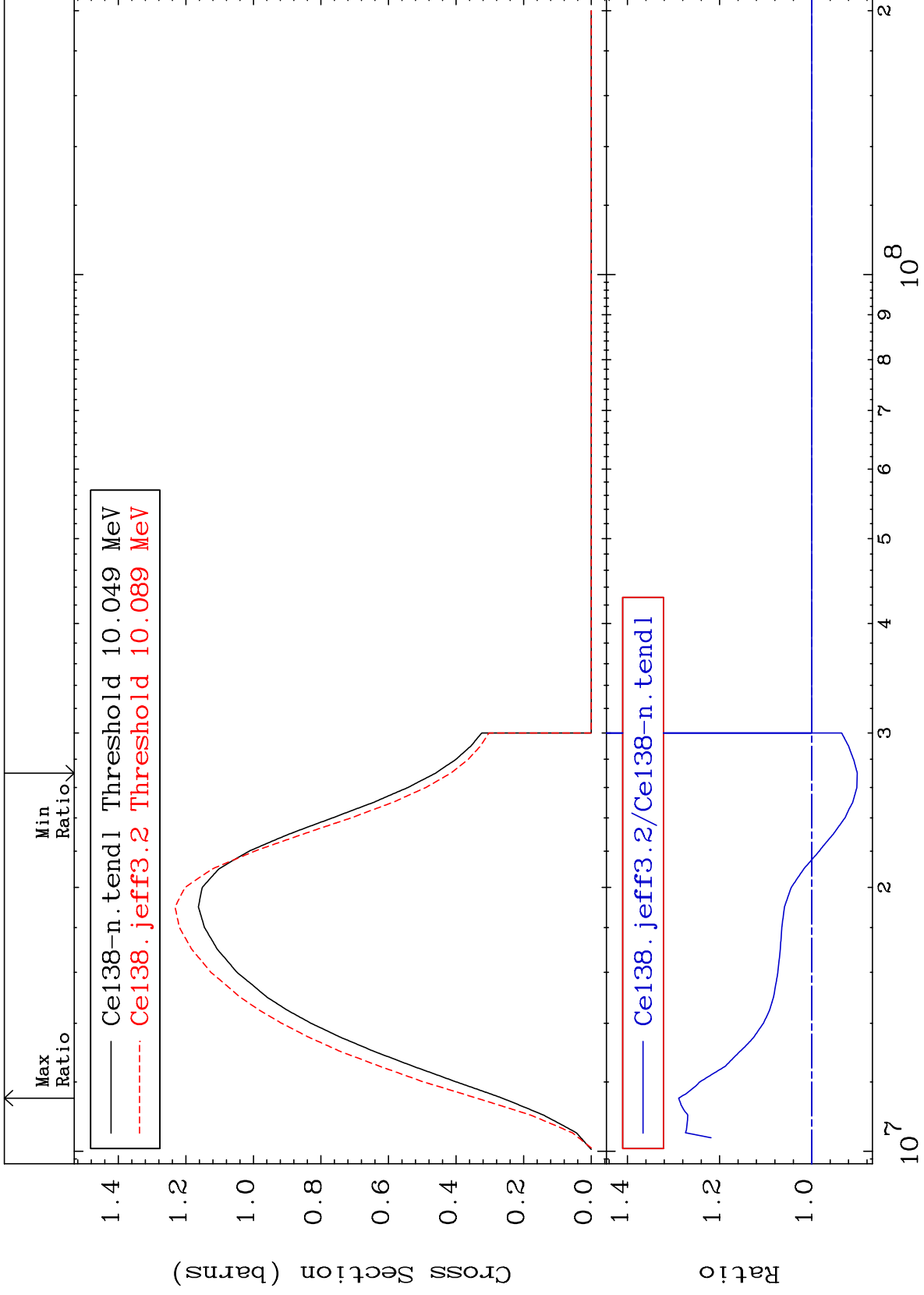


MAT 5831

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

58-Ce-138

Radionuclide Production Cross Section -9.876 To 28.89 %



81

Incident Energy (eV)

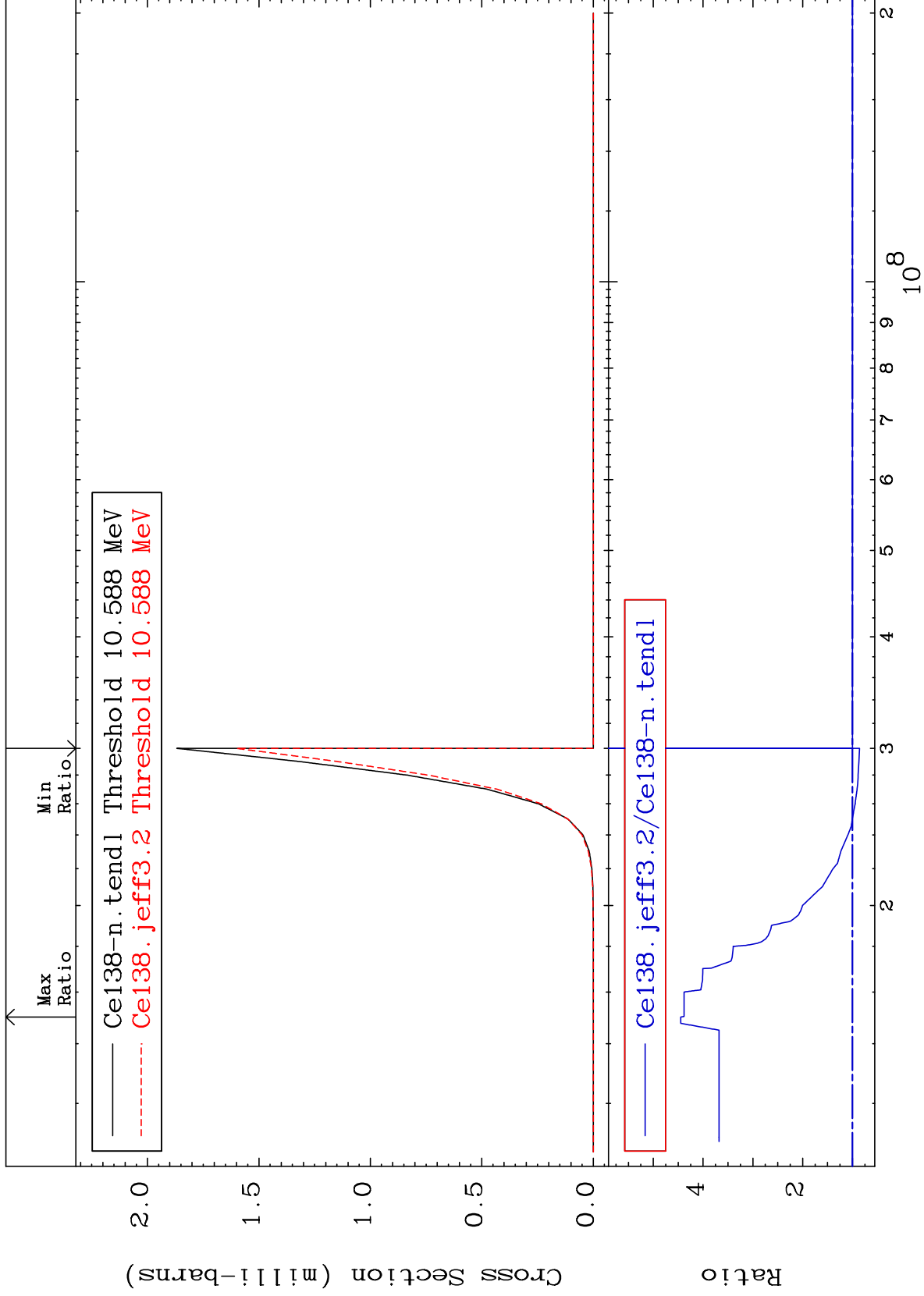
58-Ce-138

MAT 5831

(n,2n) α :56-Ba-133g

58-Ce-138

Radionuclide Production Cross Section -14.23 To 344.8 %



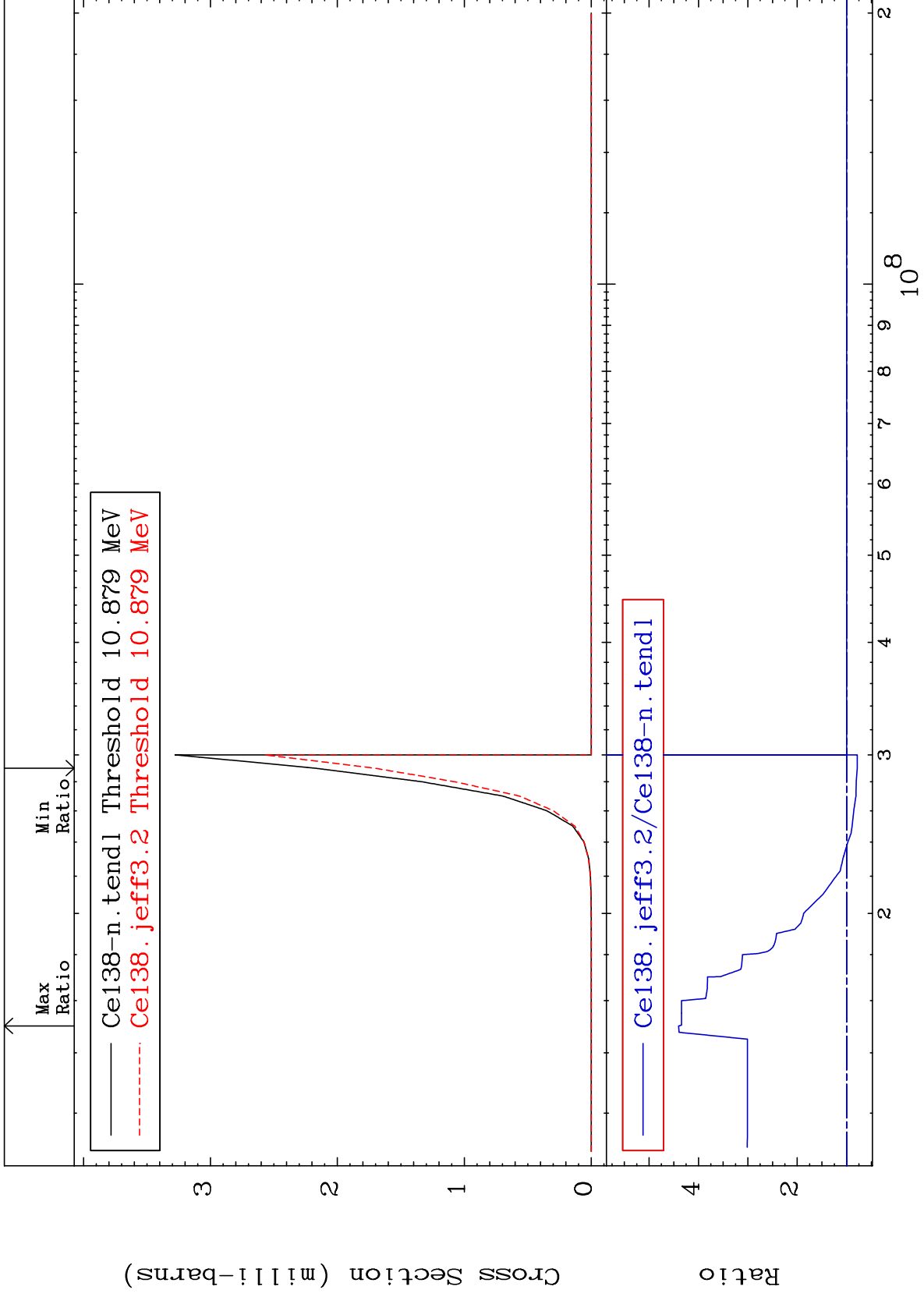
MAT 5831

(n,2n) α :56-Ba-133m2

58-Ce-138

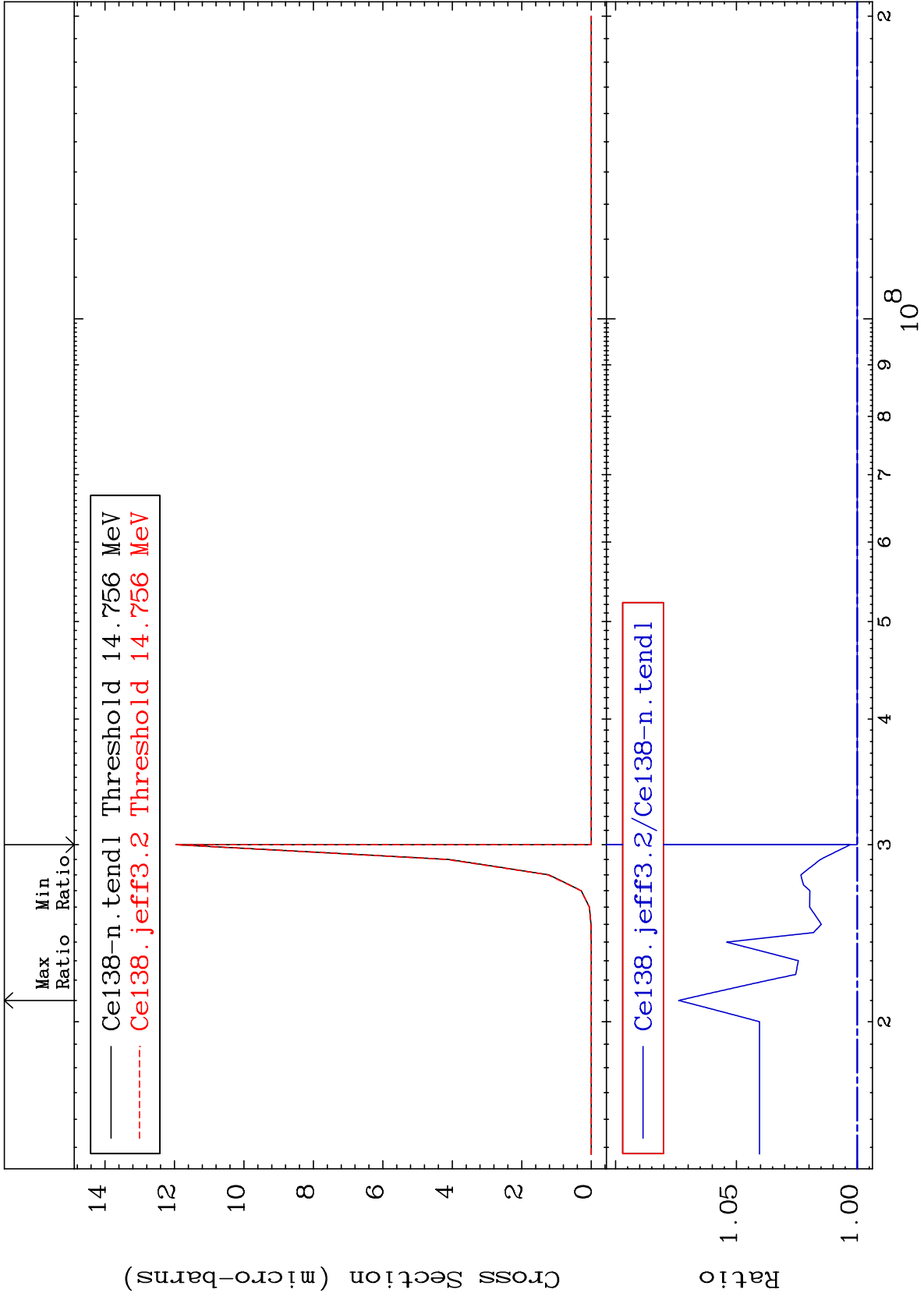
Radionuclide Production Cross Section

-21.51 To 340.2 %



MAT 5831

(n, n') He-3:56-Ba-135g 58-Ce-138
Radionuclide Production Cross Section 0.000 To 7.390 %

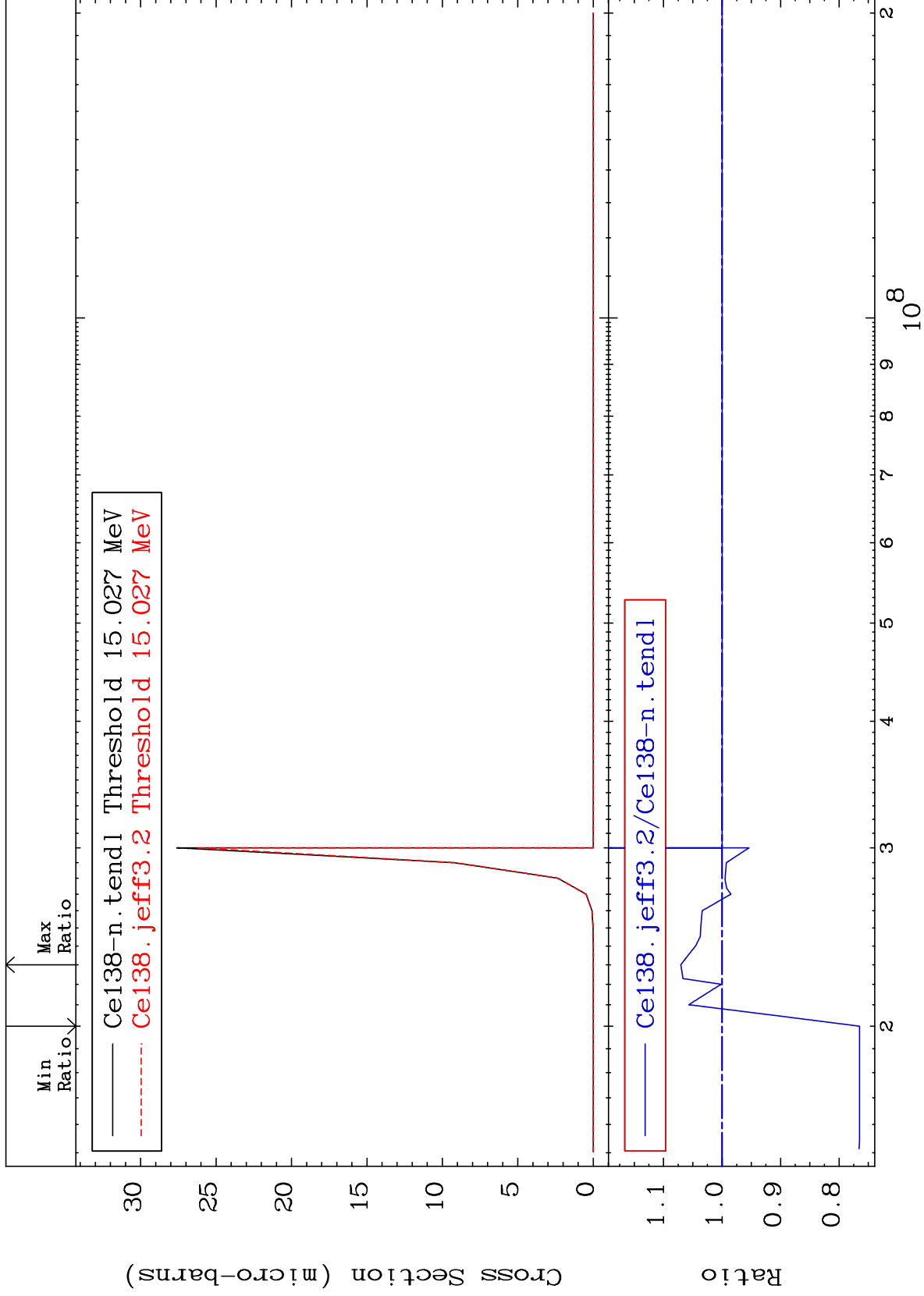


MAT 5831

(n, n') He-3:56-Ba-135m2

58-Ce-138

Radionuclide Production Cross Section -23.49 To 7.053 %

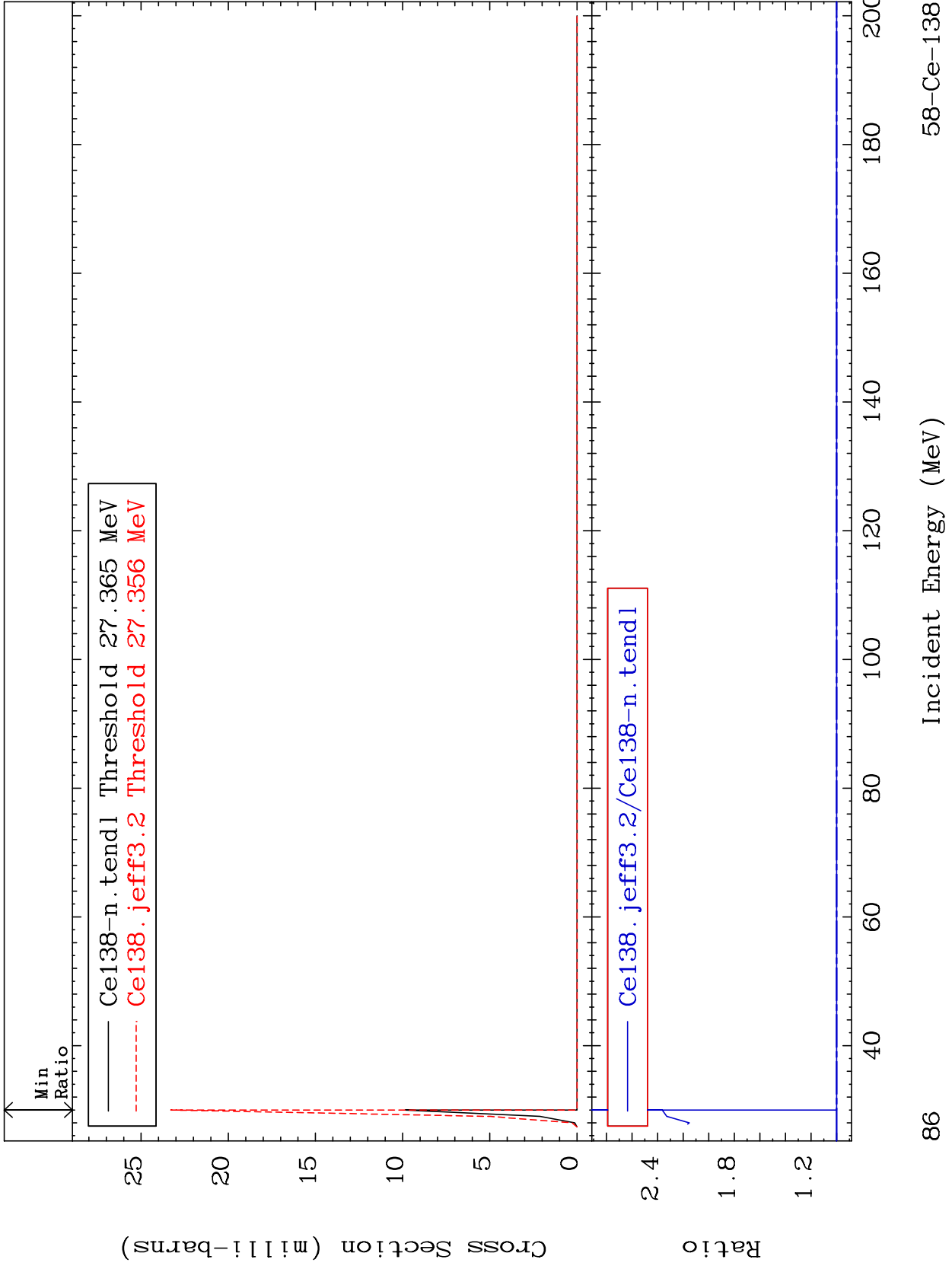


MAT 5831

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

58-Ce-138

Radionuclide Production Cross Section 0.000 To 136.4 %

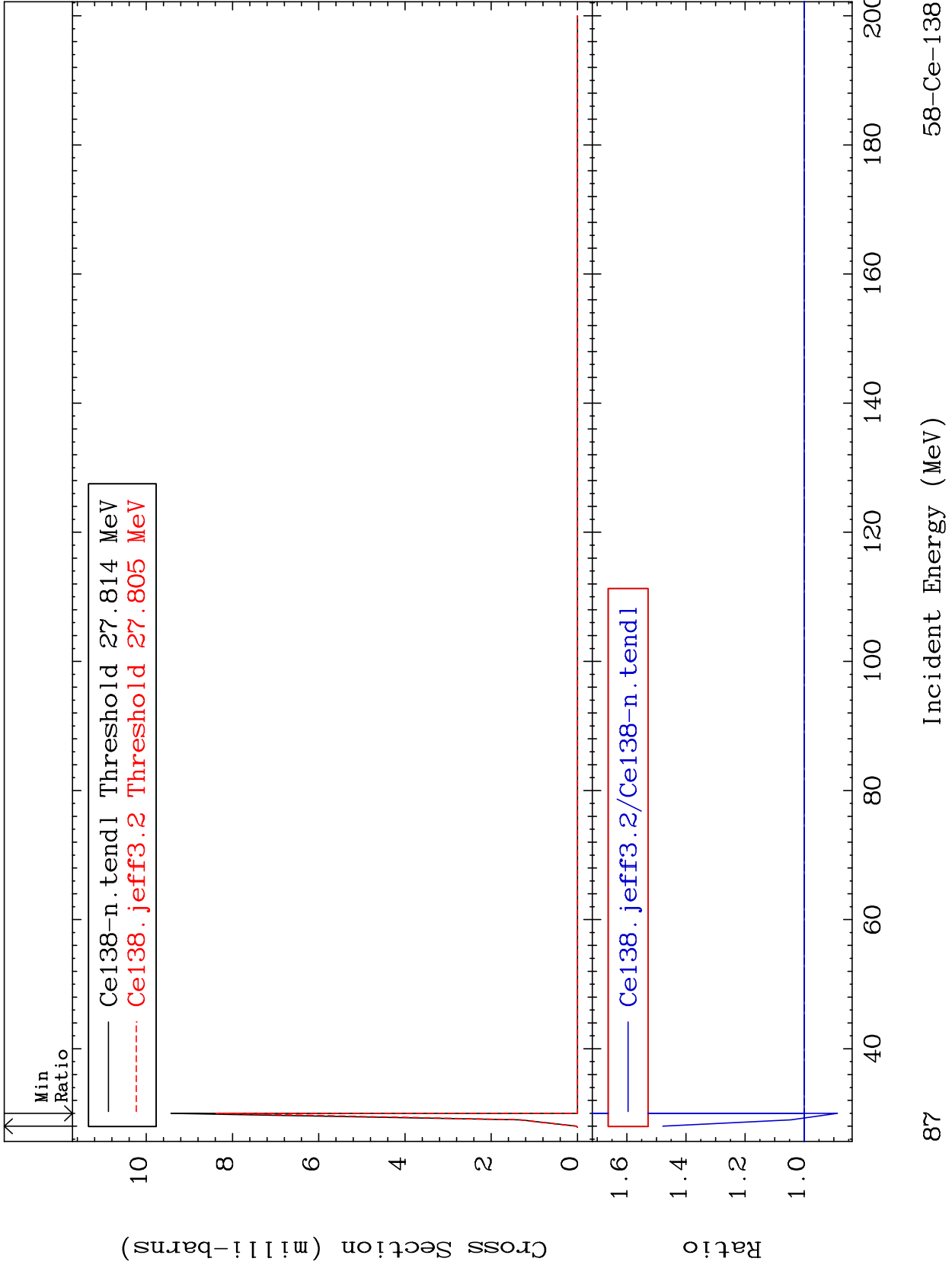


MAT 5831

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

58-Ce-138

Radionuclide Production Cross Section -11.16 To 47.82 %

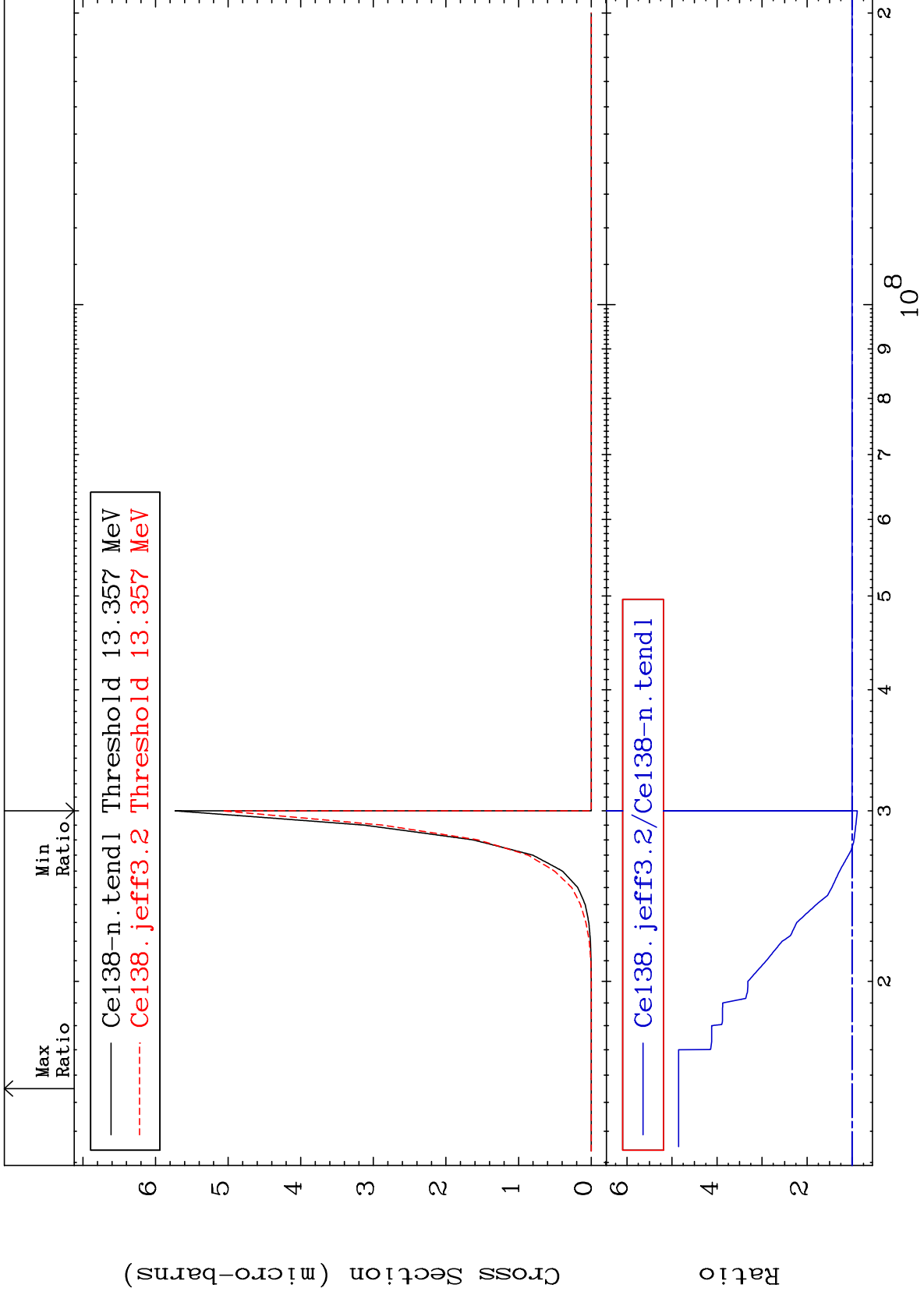


MAT 5831

(n,2n) p:56-Ba-136g

58-Ce-138

Radionuclide Production Cross Section -11.36 To 385.2 %



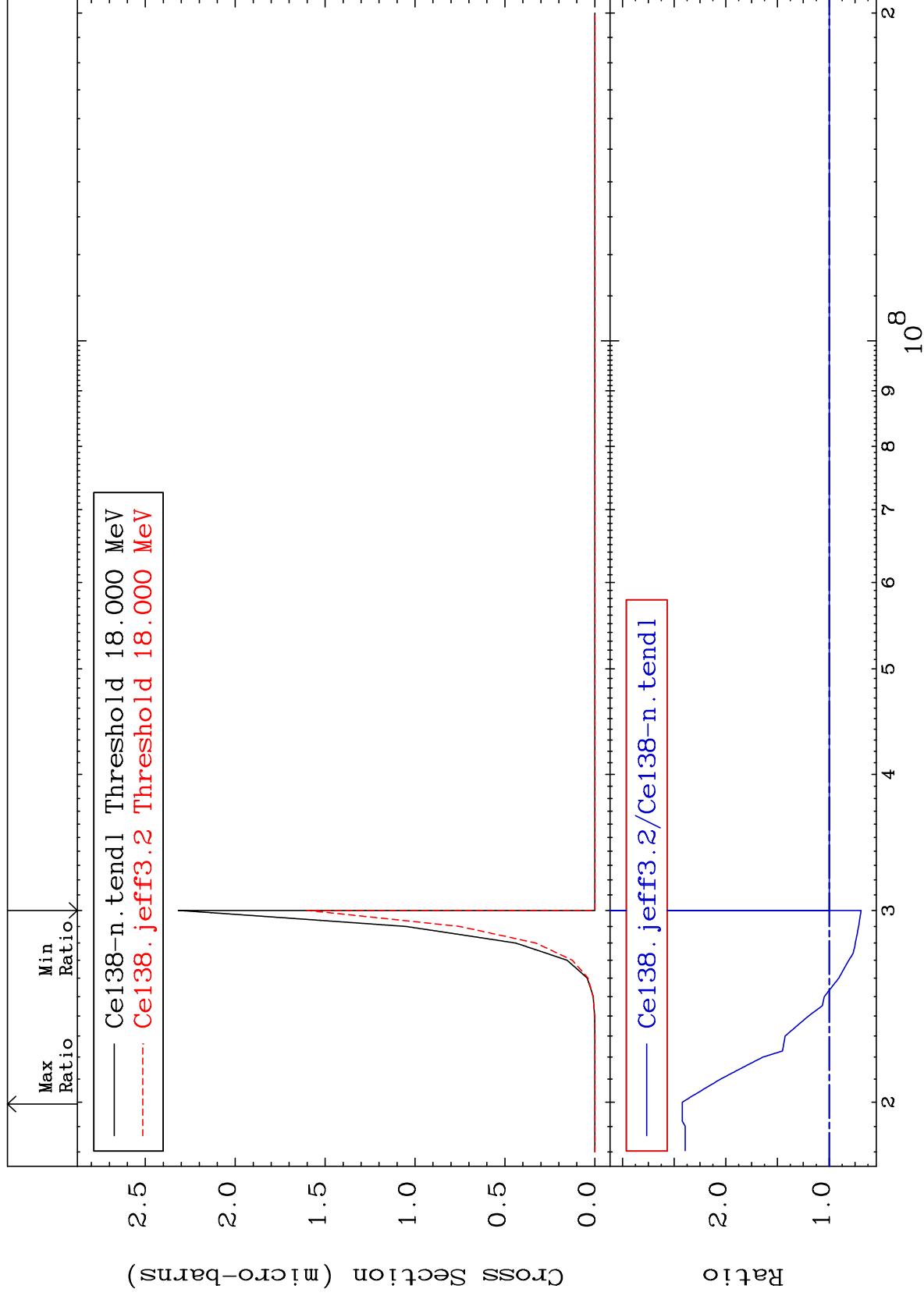
MAT 5831

(n,2n) p:56-Ba-136m5

58-Ce-138

Radionuclide Production Cross Section

-30.90 To 142.1 %



89

Incident Energy (eV)

58-Ce-138

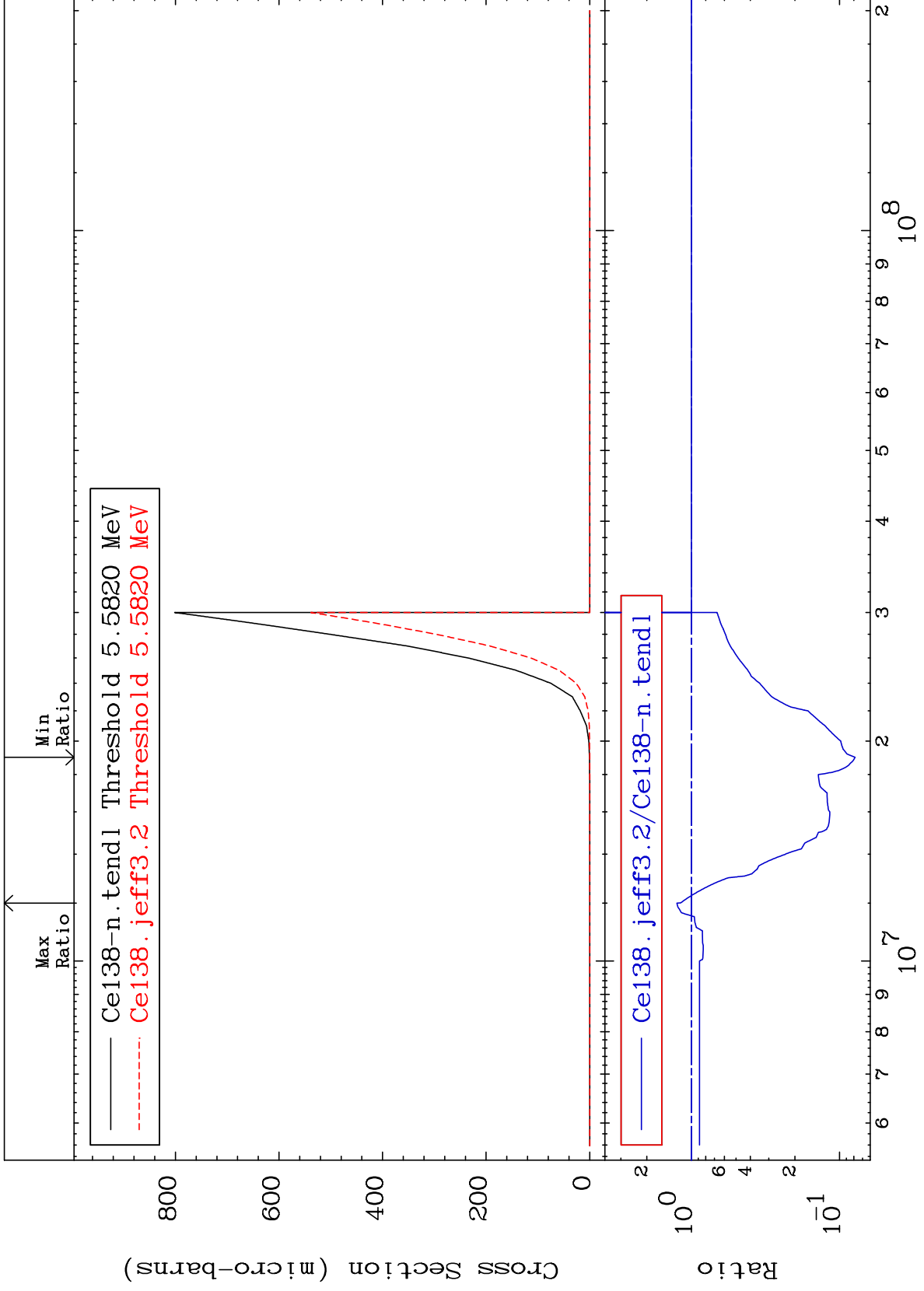
MAT 5831

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

58-Ce-138

Radionuclide Production Cross Section

-92.15 To 25.33 %



90

58-Ce-138

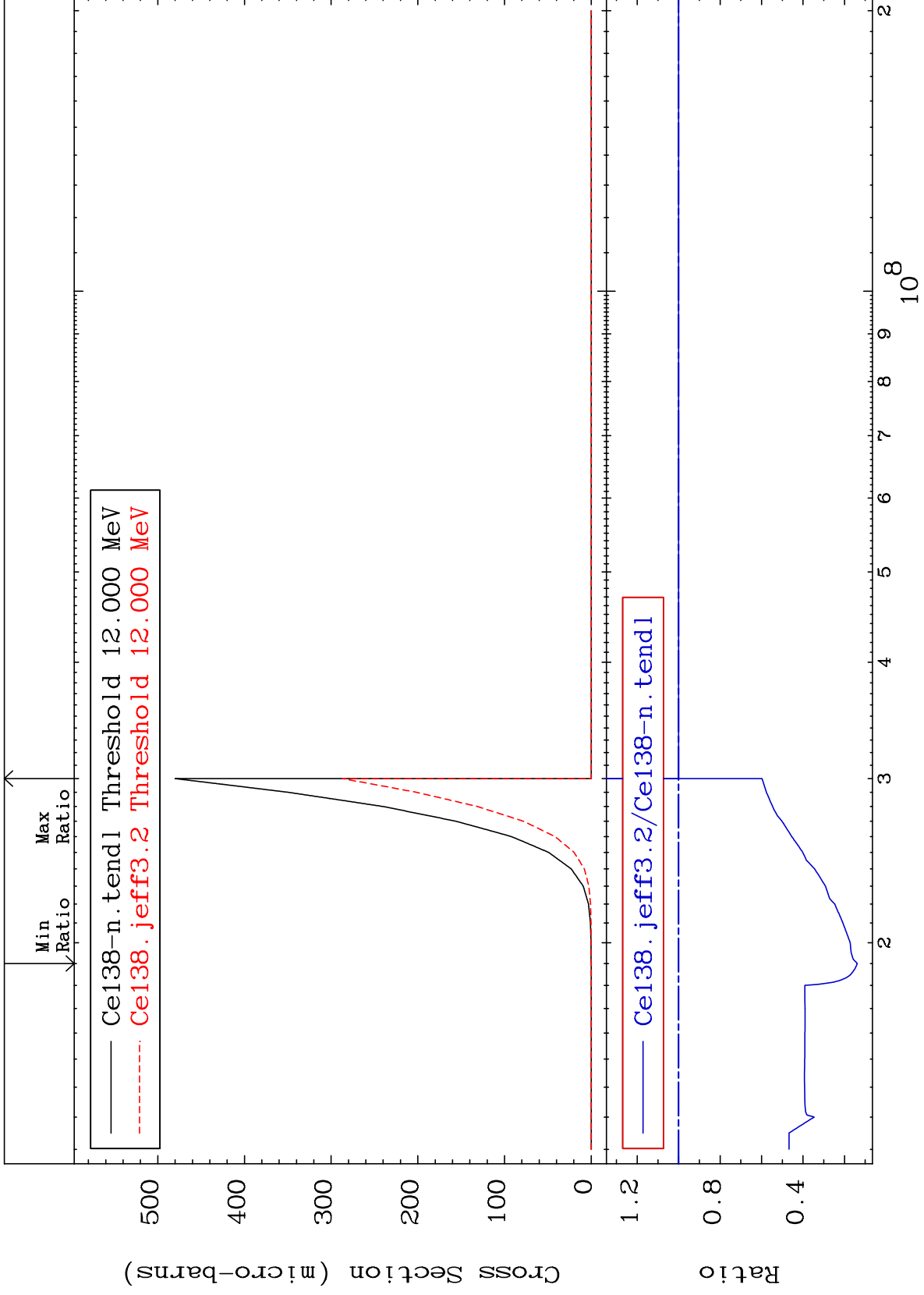
58-Ce-138

MAT 5831

(n,He-3):56-Ba-136m5

58-Ce-138

Radionuclide Production Cross Section -86.16 To 0.000 %



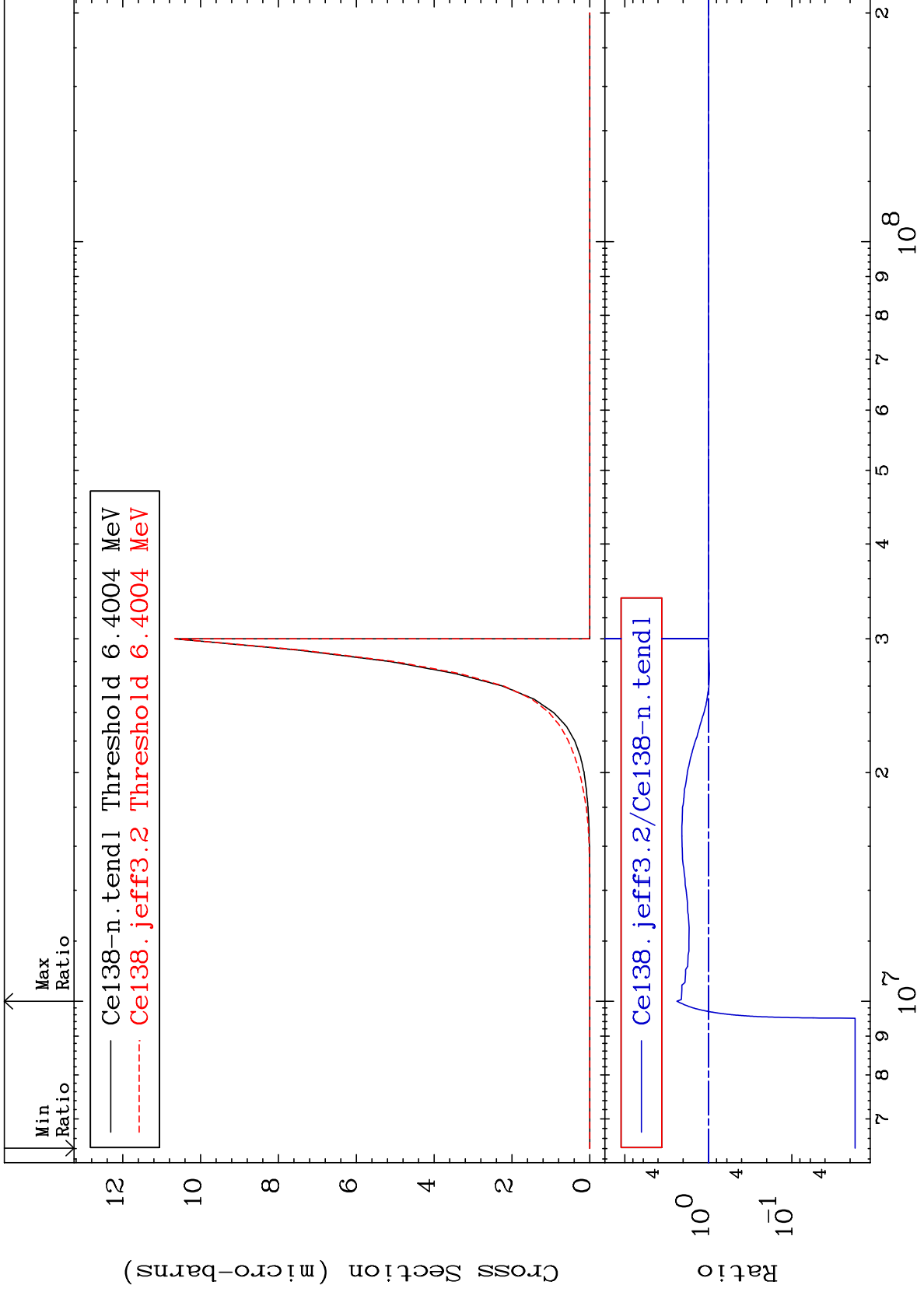
MAT 5831

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

58-Ce-138

Radionuclide Production Cross Section

-98.25 To 137.6 %

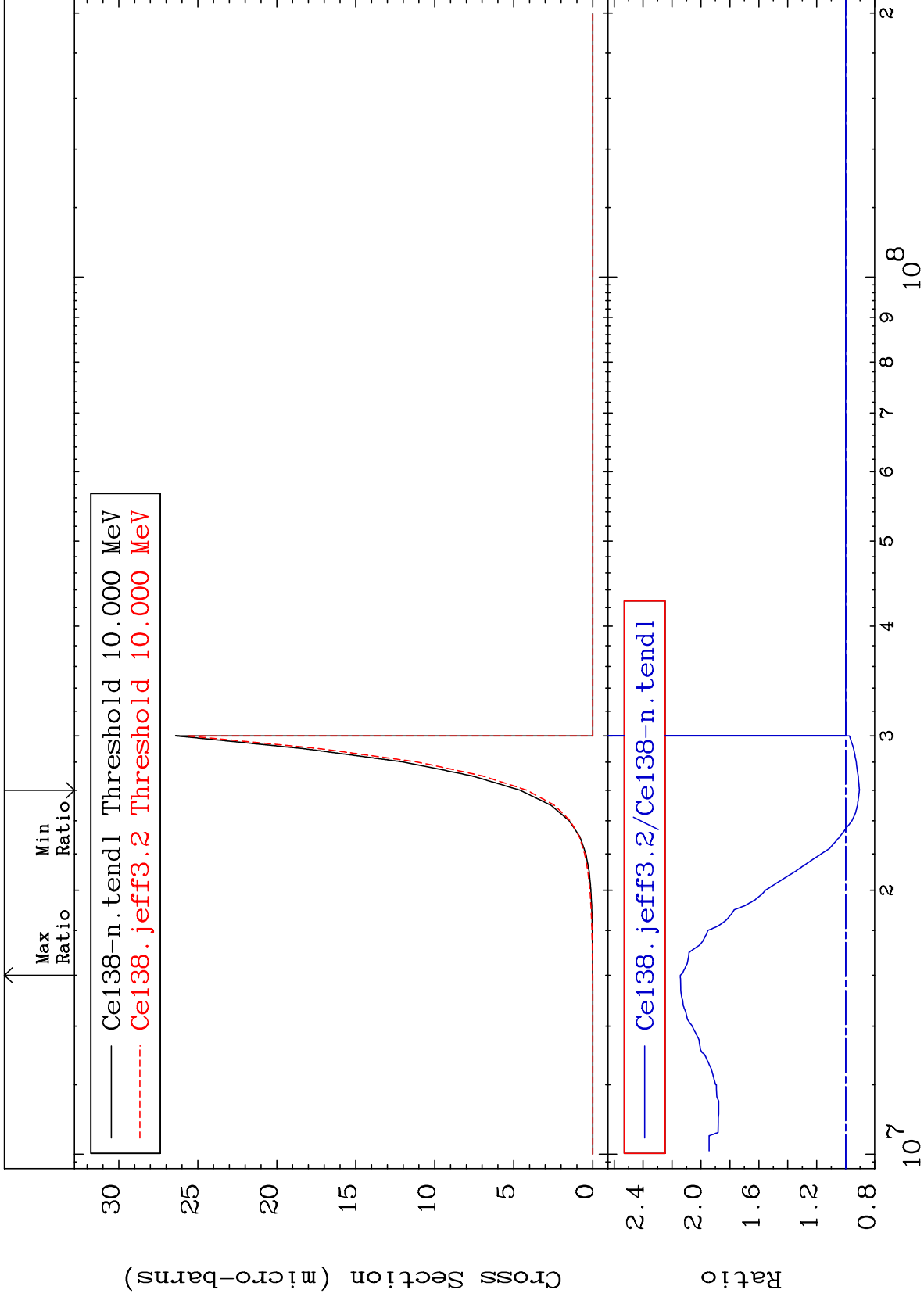


MAT 5831

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

58-Ce-138

Radionuclide Production Cross Section -9.514 To 114.2 %



93

Incident Energy (eV)

58-Ce-138

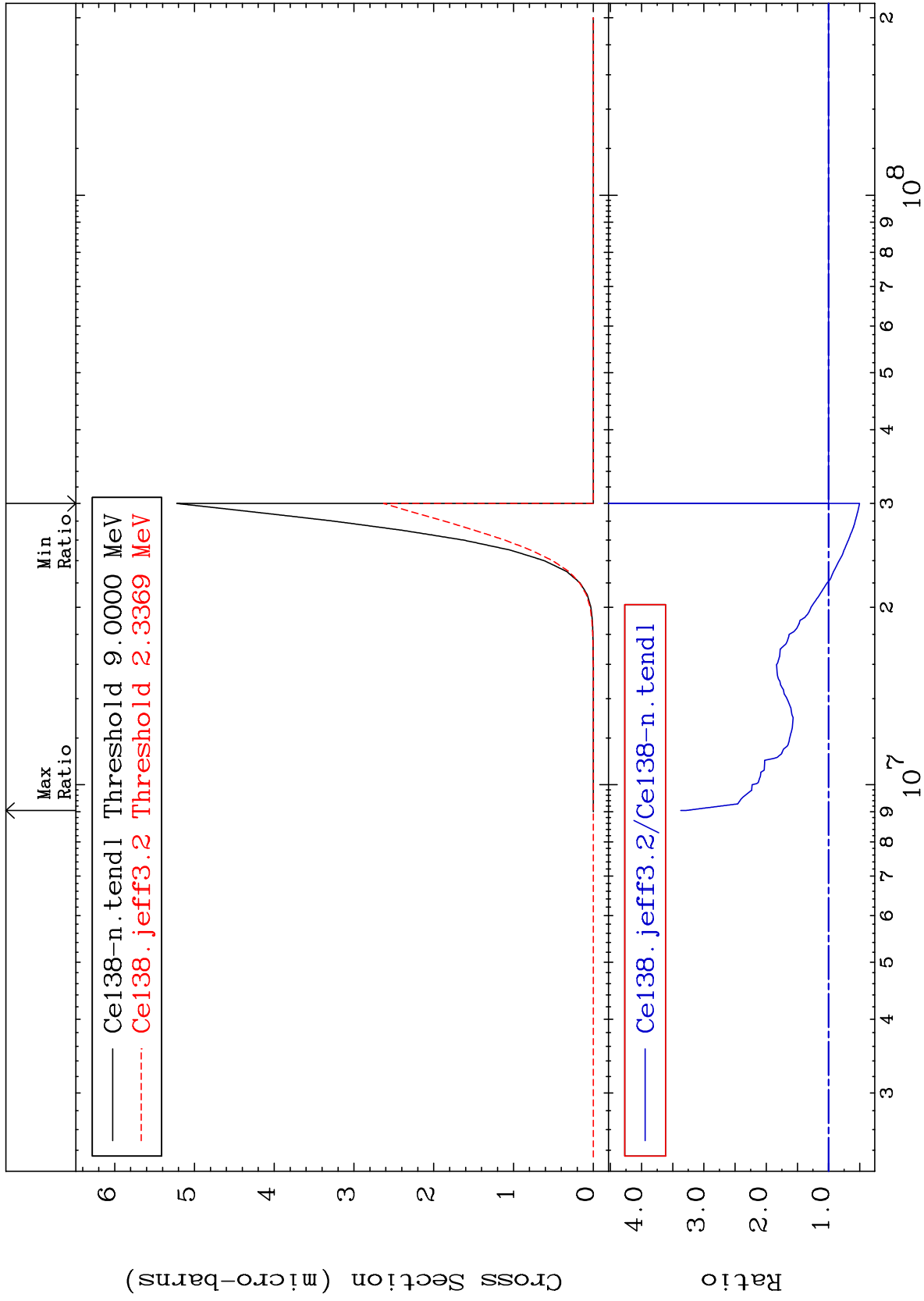
MAT 5831

(n, p) α :55-Cs-134g

58-Ce-138

Radionuclide Production Cross Section

-49.64 To 237.1 %

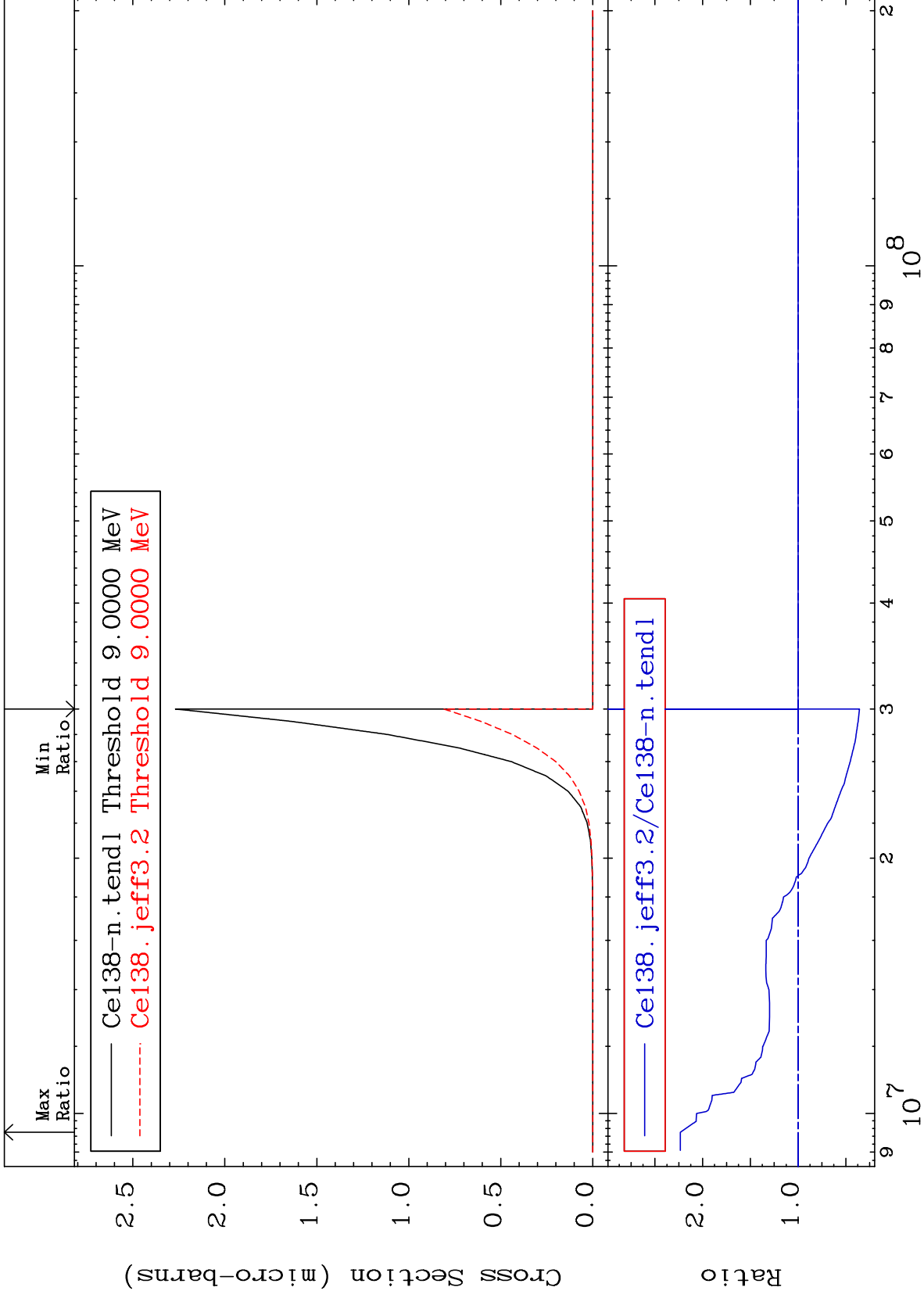


MAT 5831

(n, p) α :55-Cs-134m3

58-Ce-138

Radionuclide Production Cross Section -64.32 To 123.4 %



95

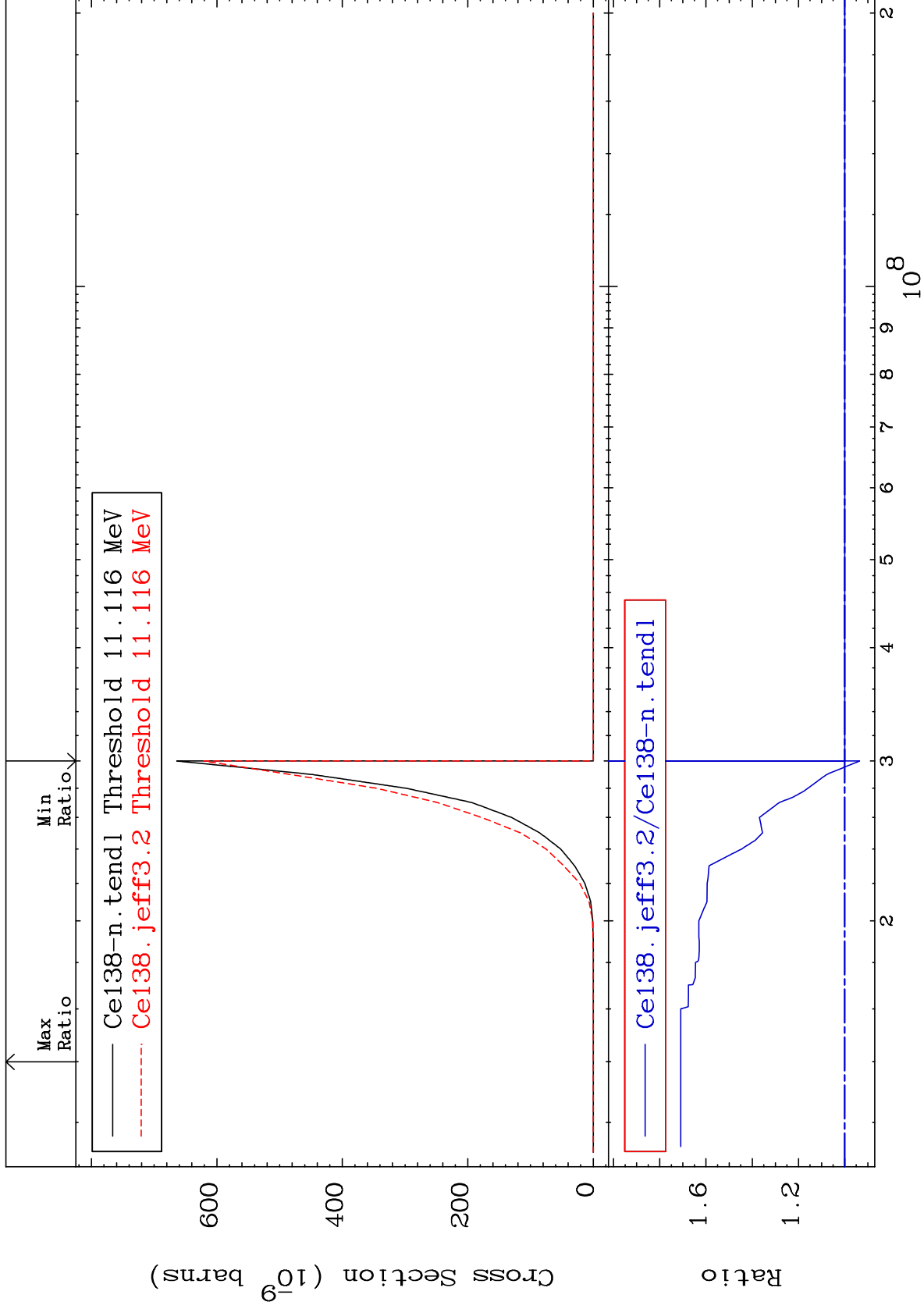
58-Ce-138

MAT 5831

(n, p) d:56-Ba-136g

58-Ce-138

Radionuclide Production Cross Section -6.434 To 70.92 %



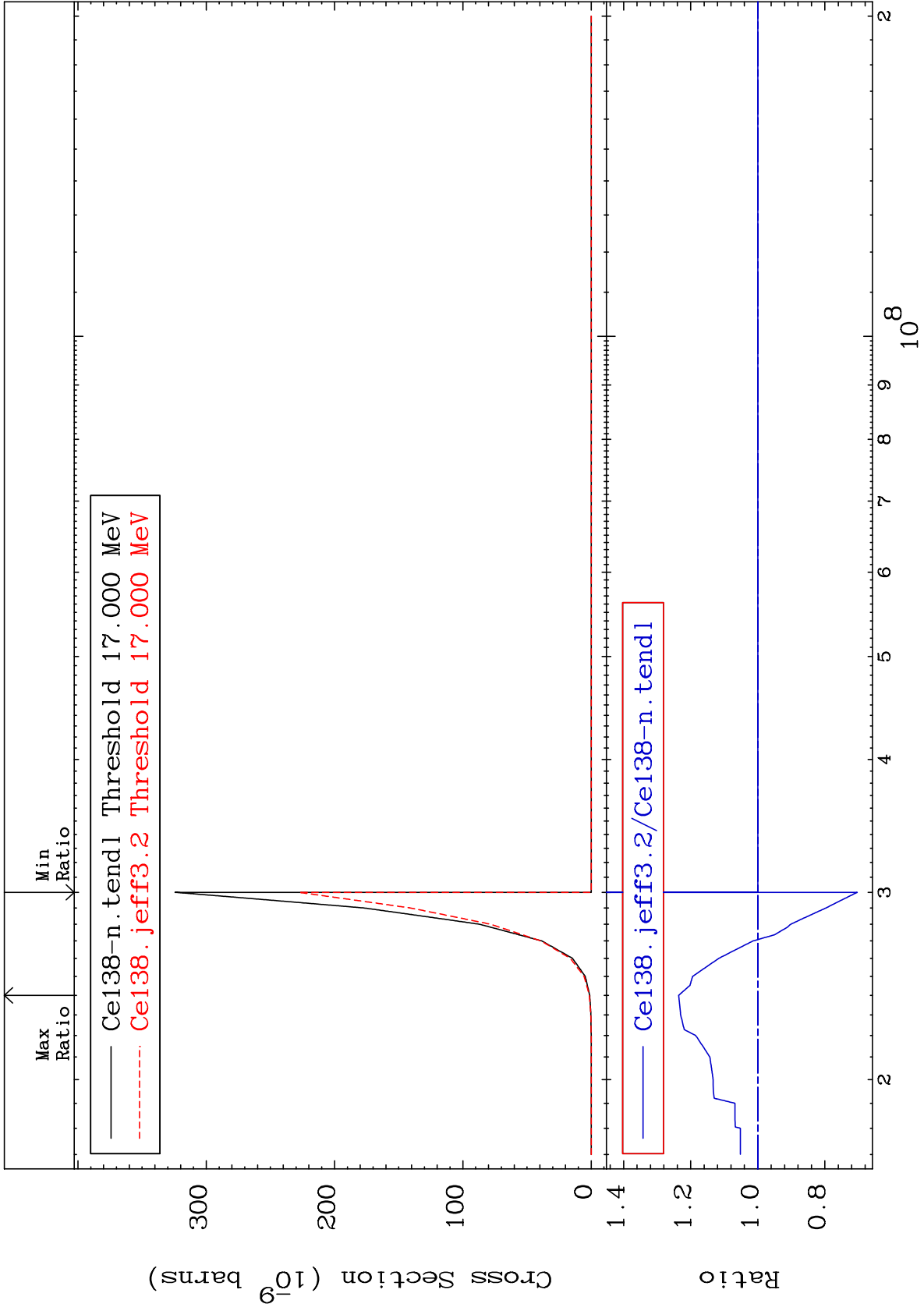
MAT 5831

(n, p) d:56-Ba-136m5

58-Ce-138

Radionuclide Production Cross Section

-29.67 To 23.60 %

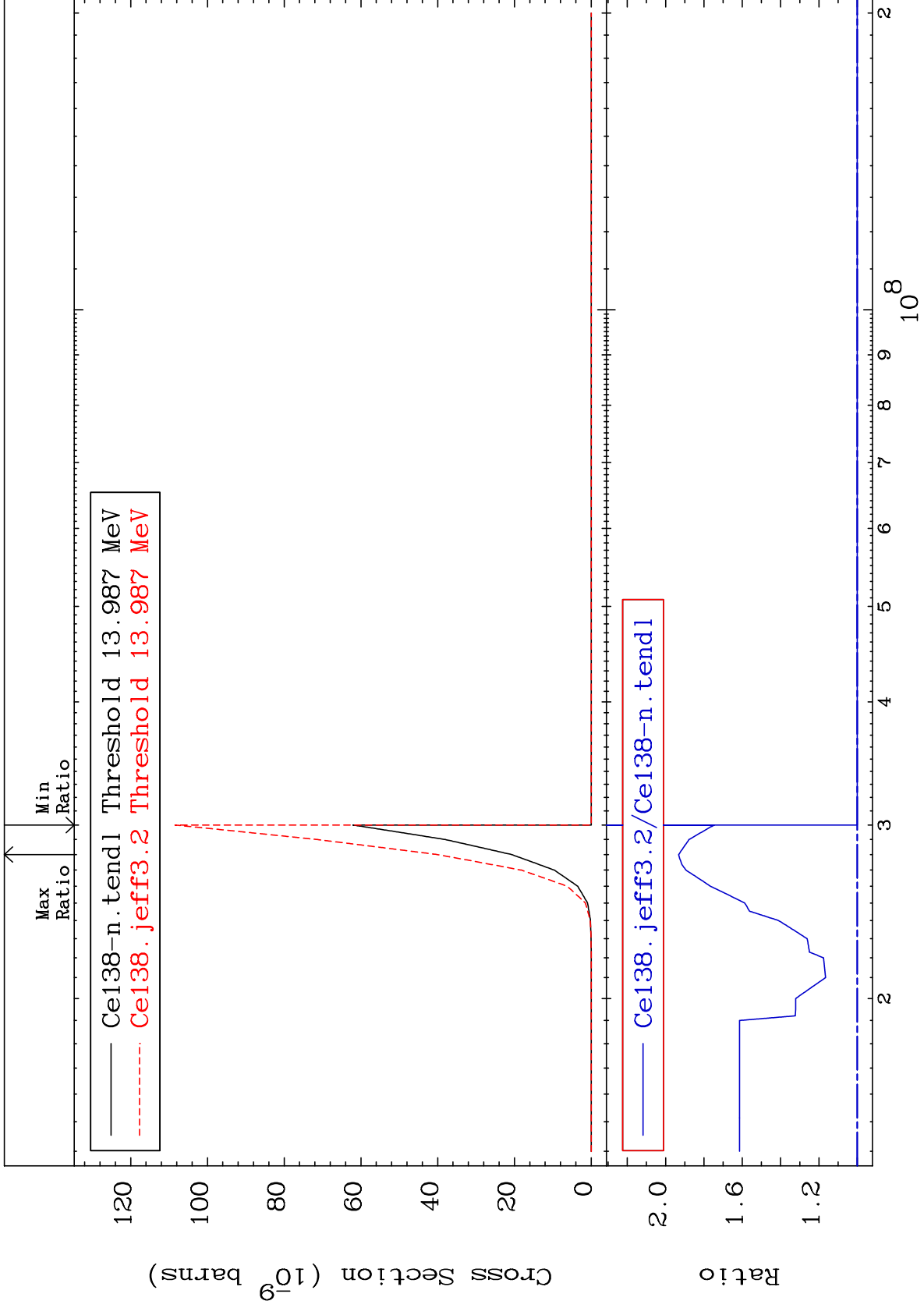


MAT 5831

(n, p) t:56-Ba-135g

58-Ce-138

Radionuclide Production Cross Section 0.000 To 93.20 %



MAT 5831

(n, p) t:56-Ba-135m2

58-Ce-138

Radionuclide Production Cross Section 0.000 To 78.55 %

