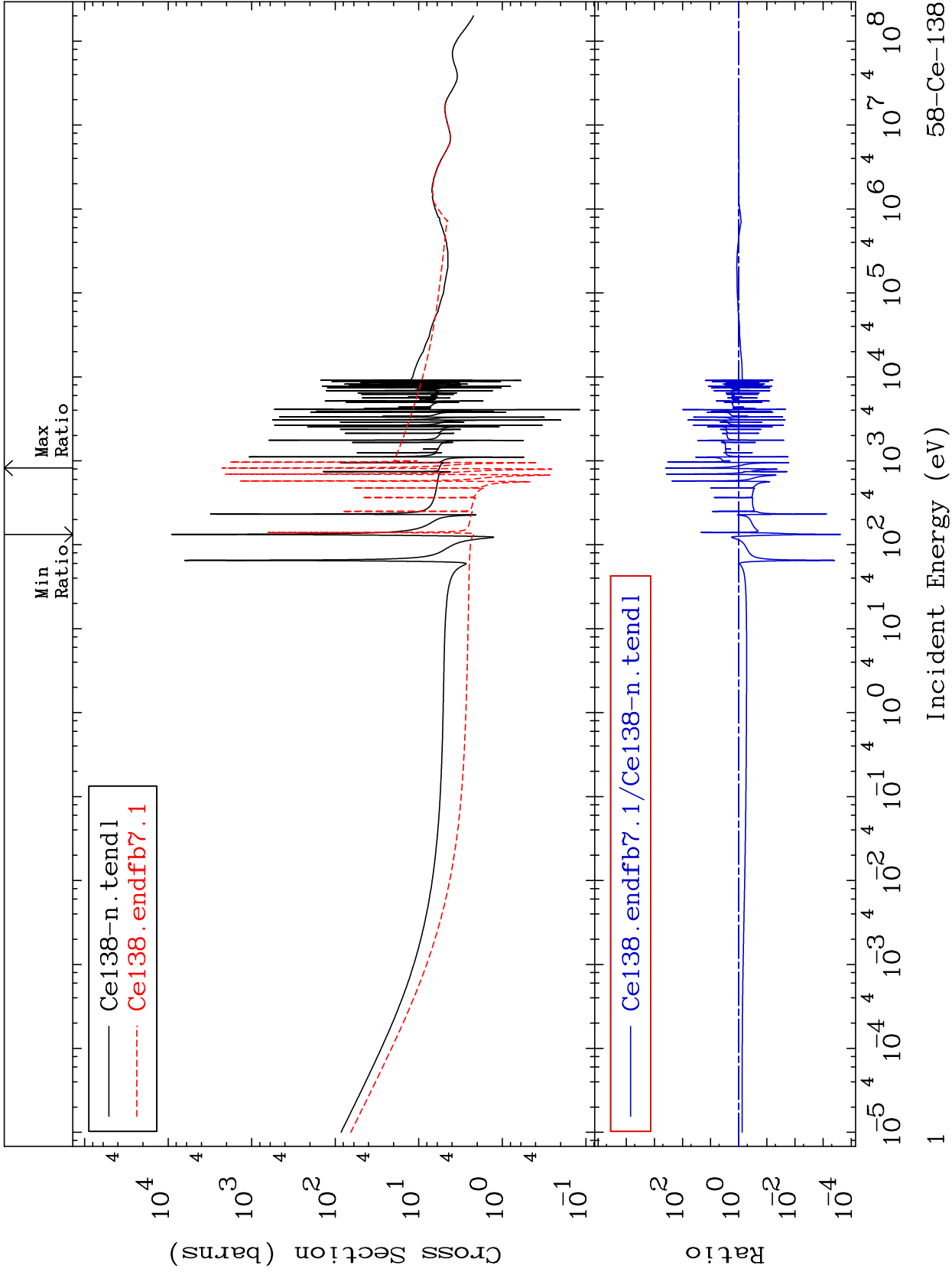


MAT 5831

Total Cross Section
58-Ce-138
-99.98 To 9999. %



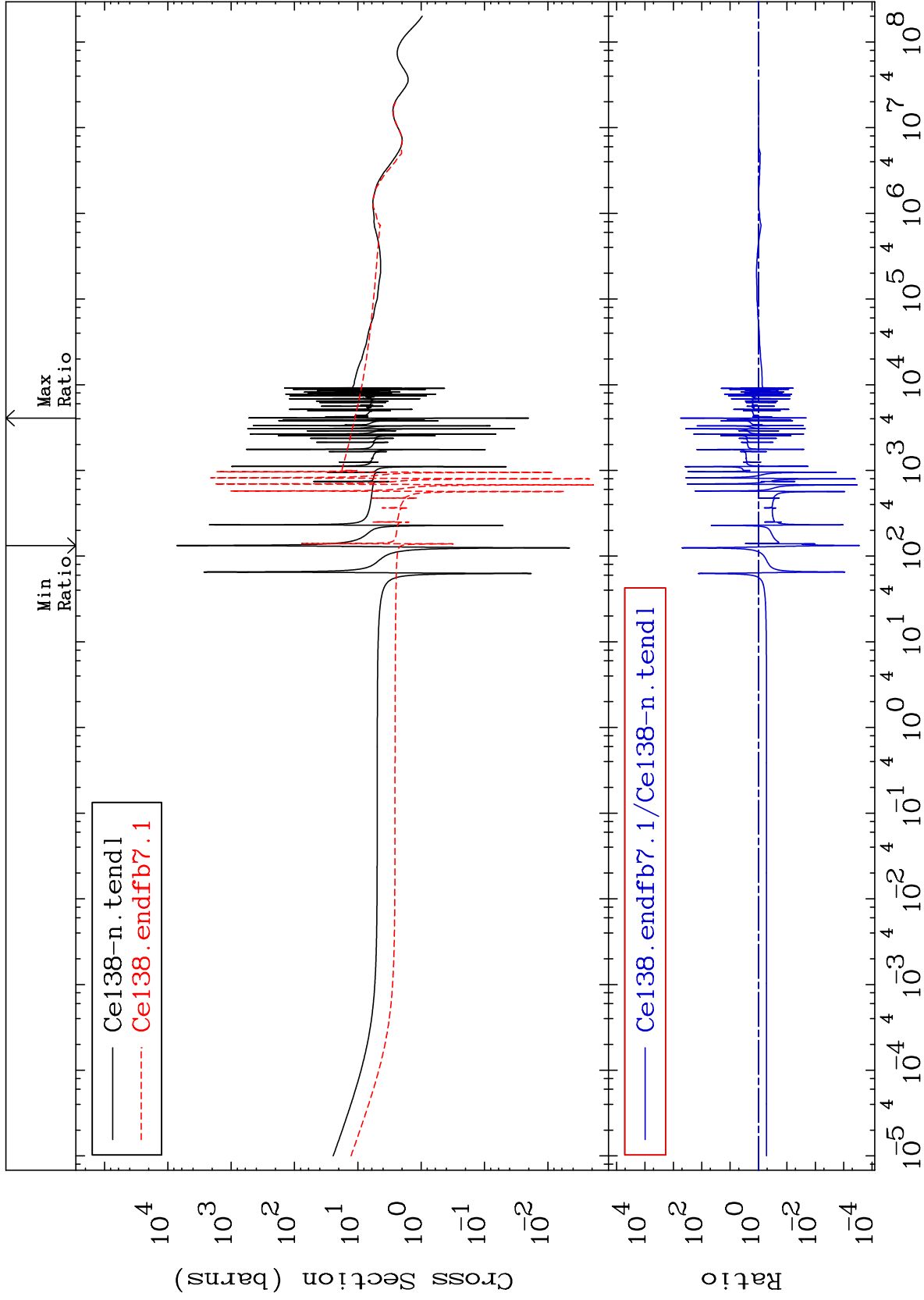
58-Ce-138

Incident Energy (eV)

MAT 5831

Elastic
Cross Section

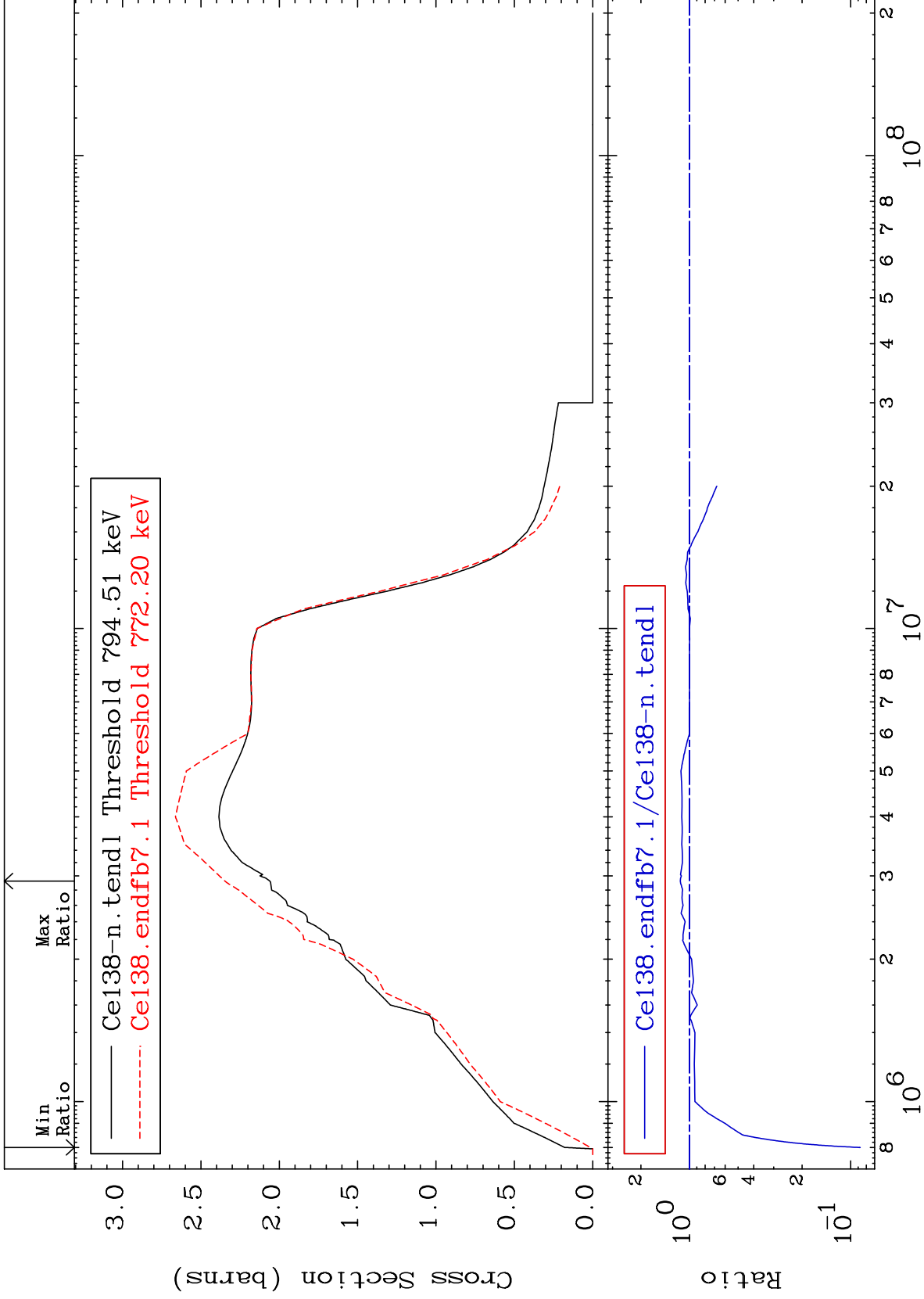
58-Ce-138
-99.97 To 9999. %



MAT 5831

Inelastic
Cross Section

58-Ce-138
-91.17 To 13.87 %



3

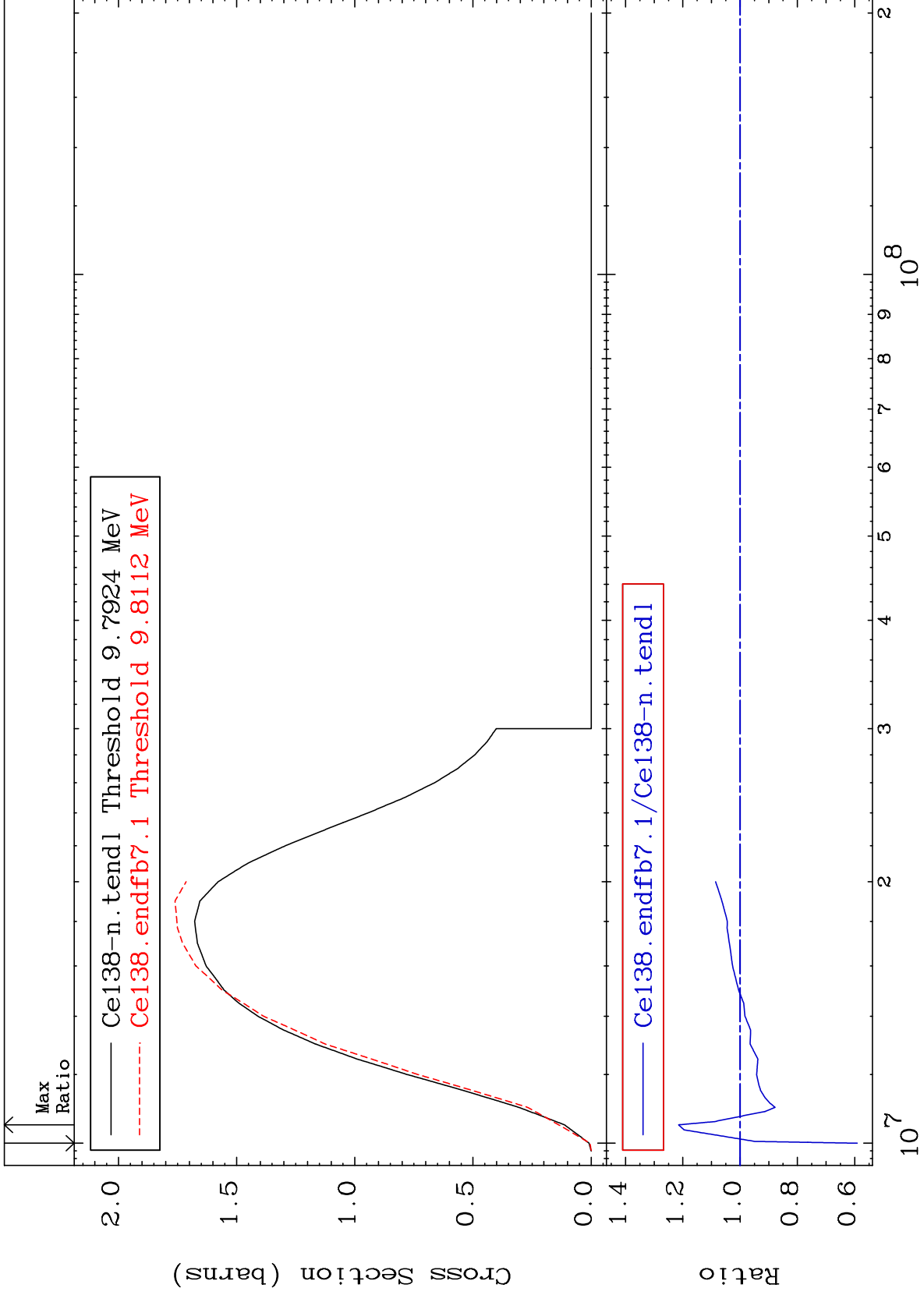
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,2n)
Cross Section

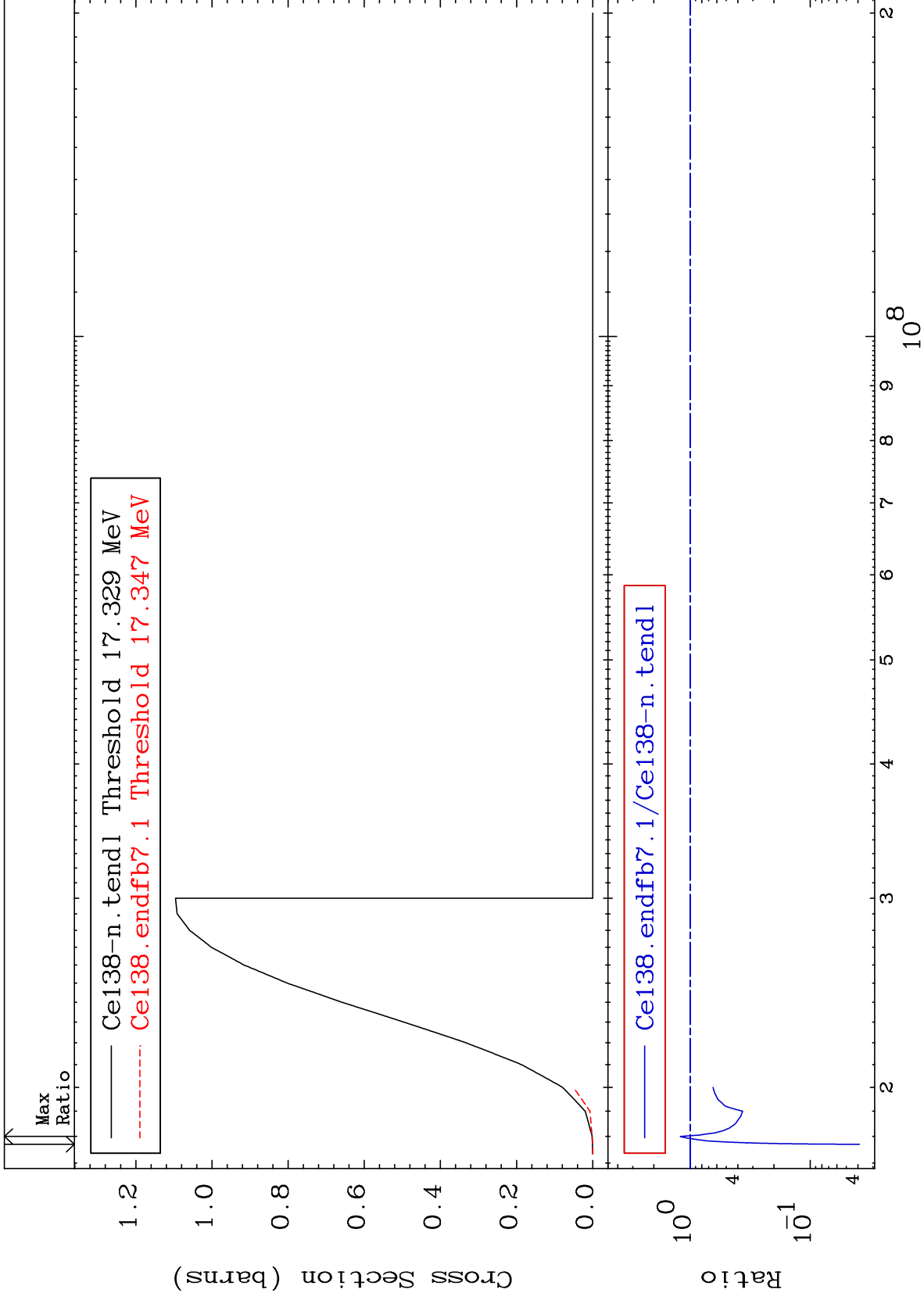
58-Ce-138
-40.89 To 21.47 %



4

58-Ce-138

58-Ce-138



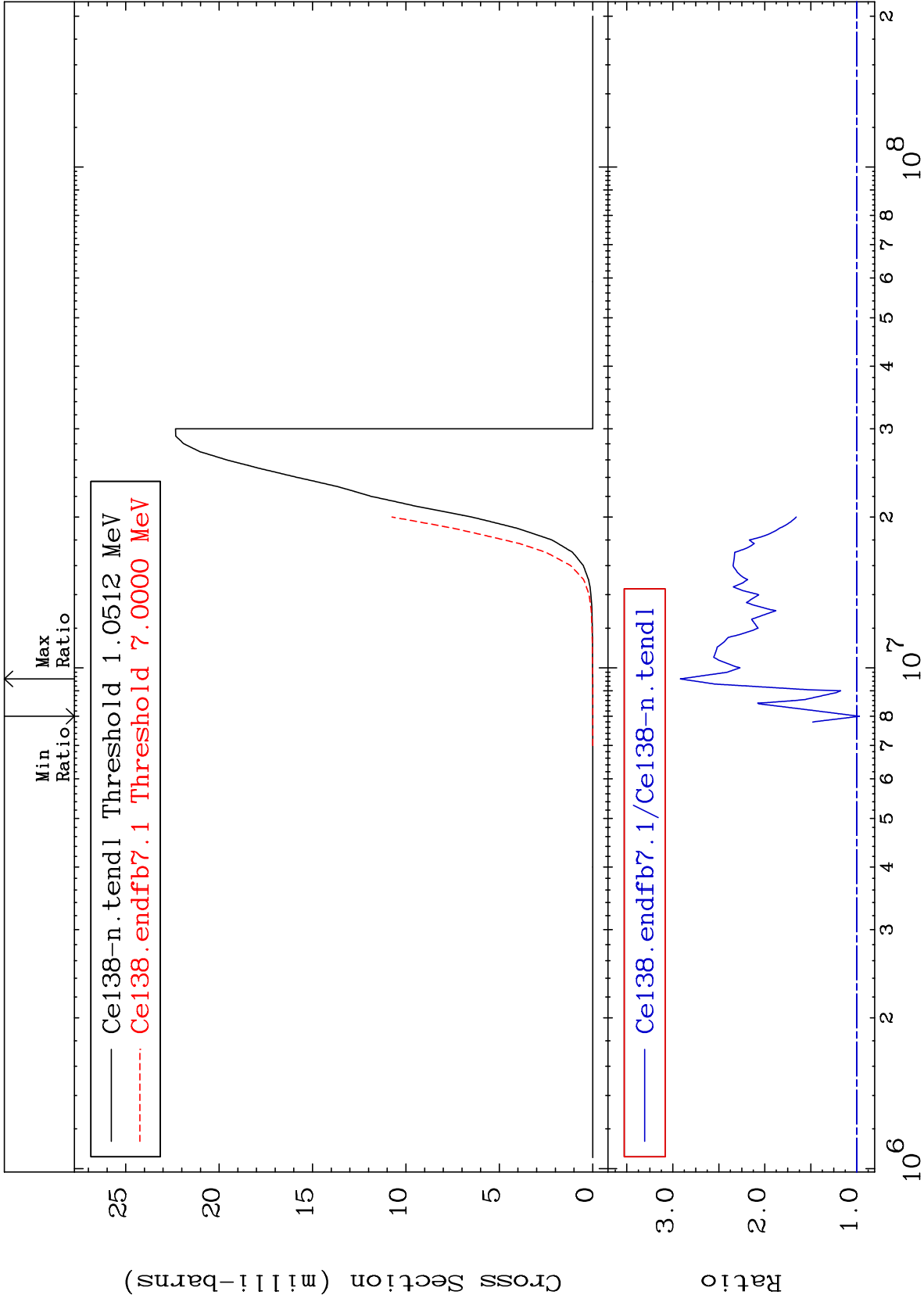
MAT 5831

(n, n') α

58-Ce-138

Cross Section

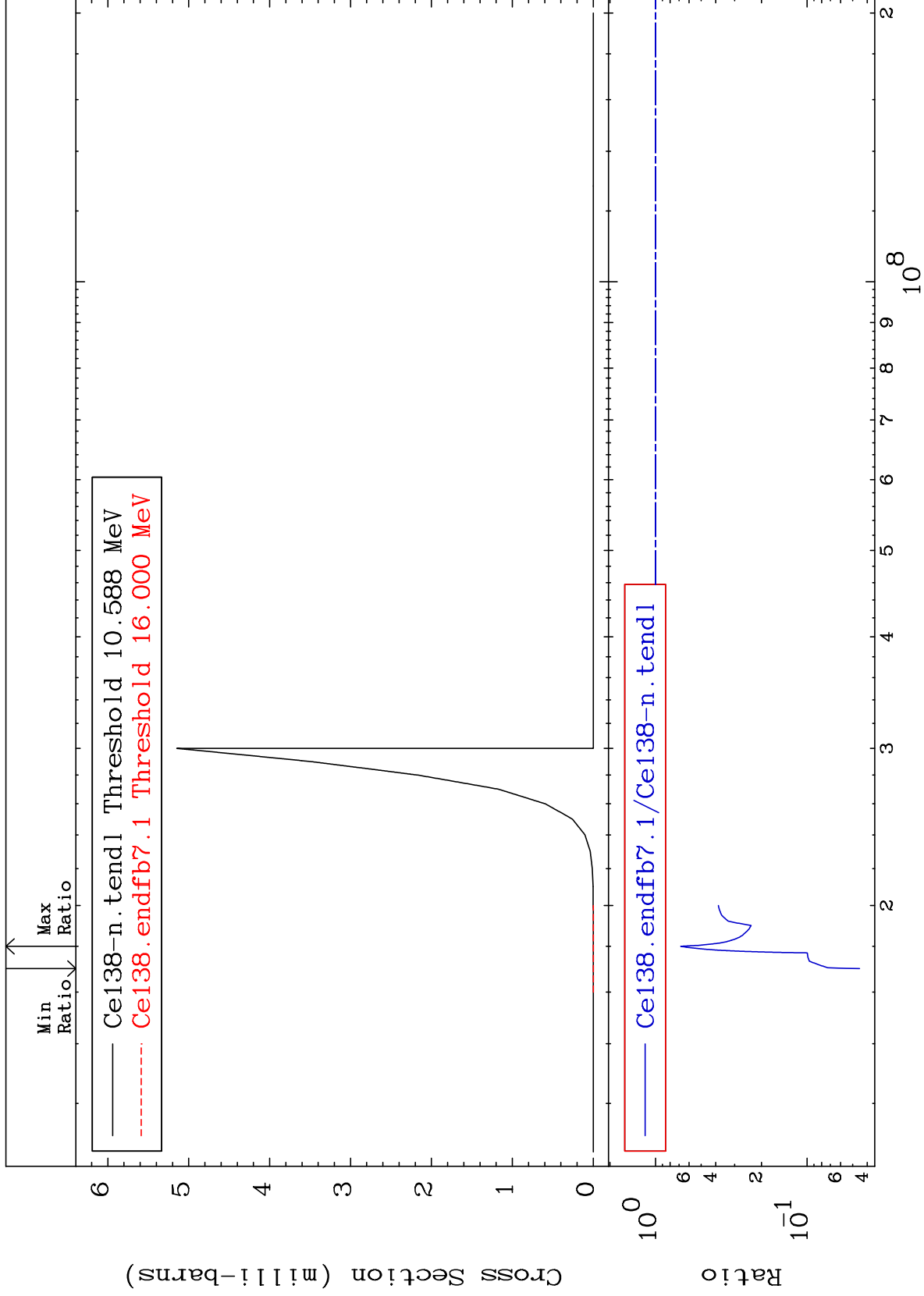
-2.887 To 191.8 %



MAT 5831

(n,2n) α
Cross Section

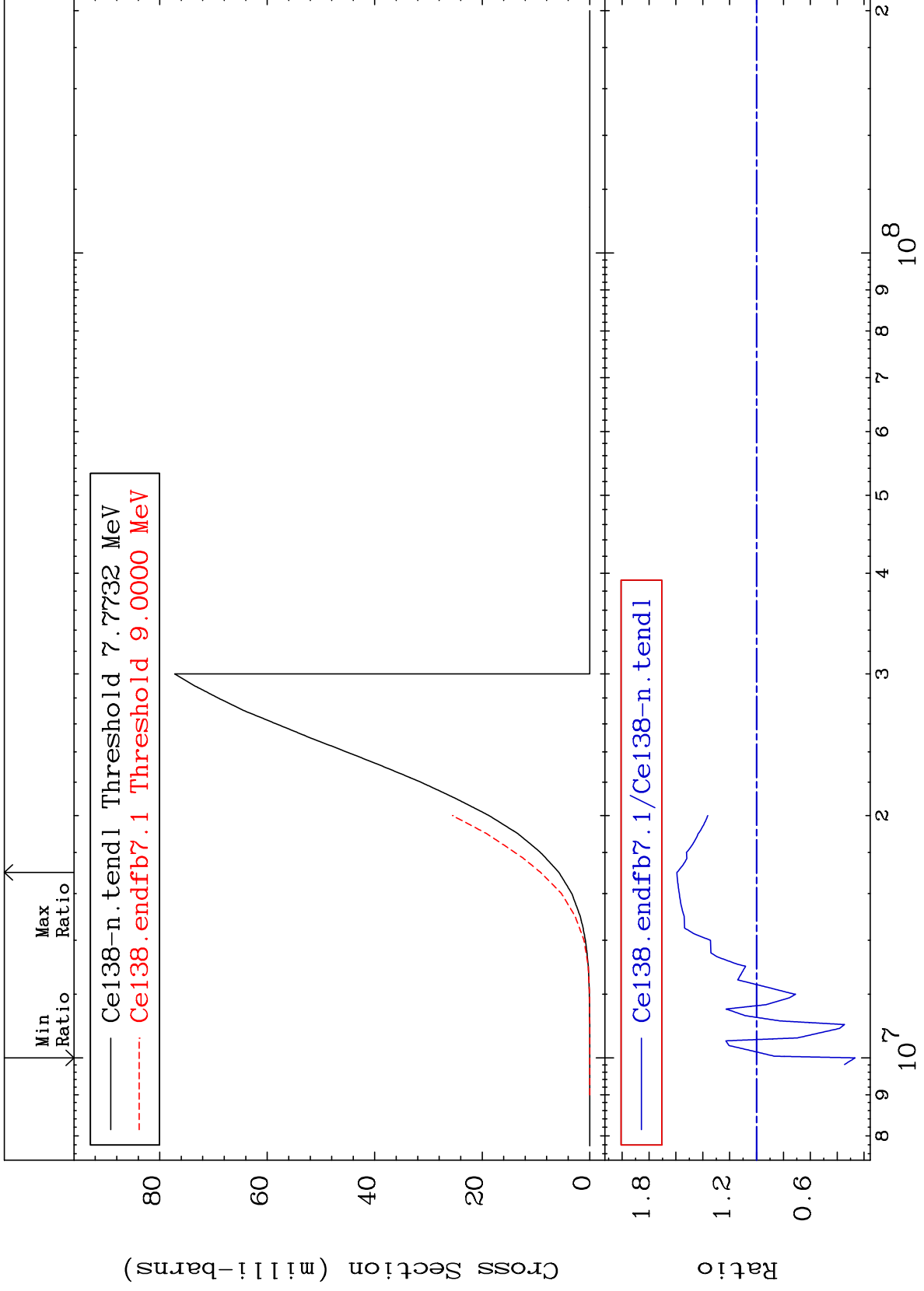
58-Ce-138
-95.50 To -31.90%



MAT 5831

(n, n') p
Cross Section

58-Ce-138
-73.34 To 59.25 %



8

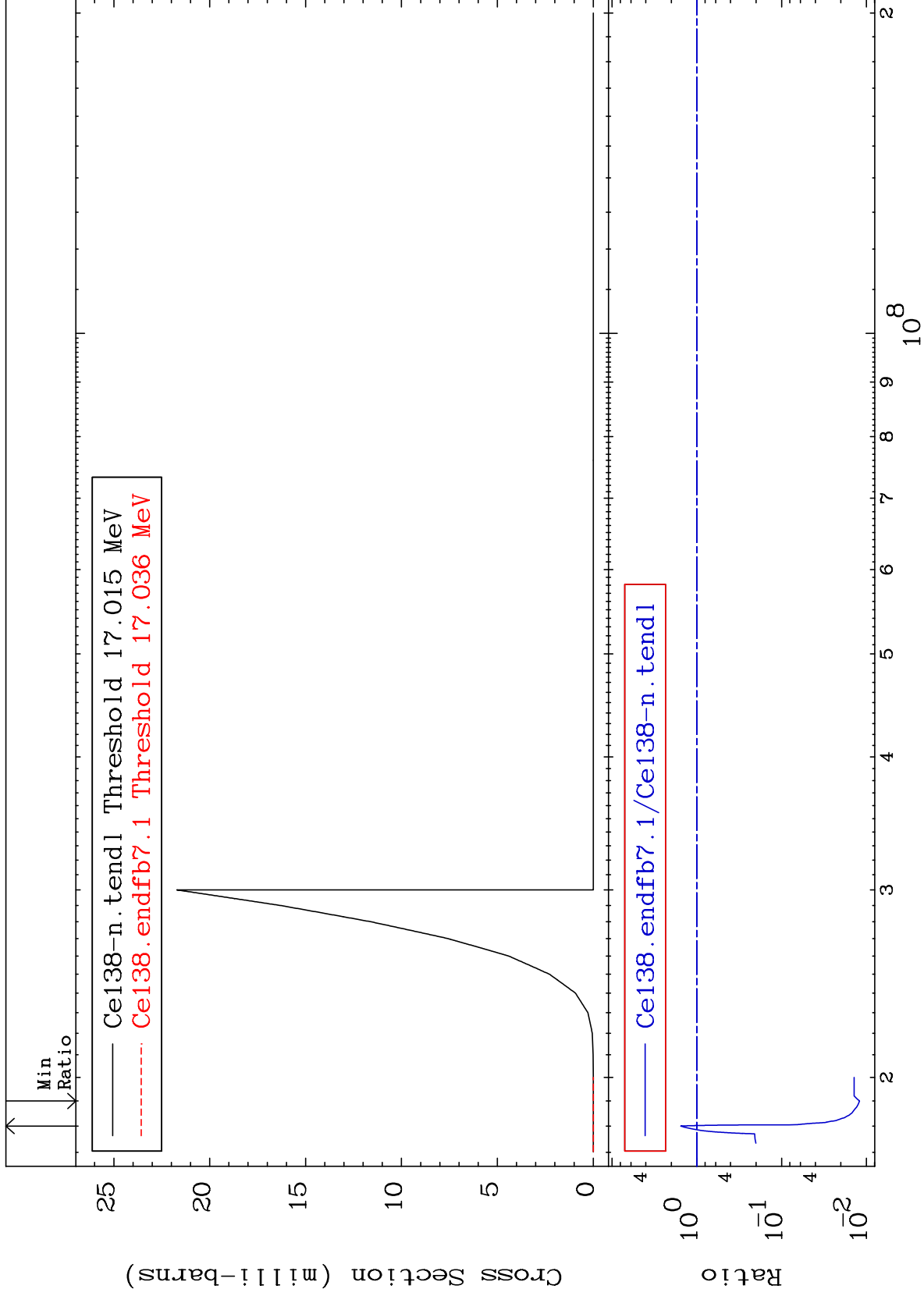
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,2n) p
Cross Section

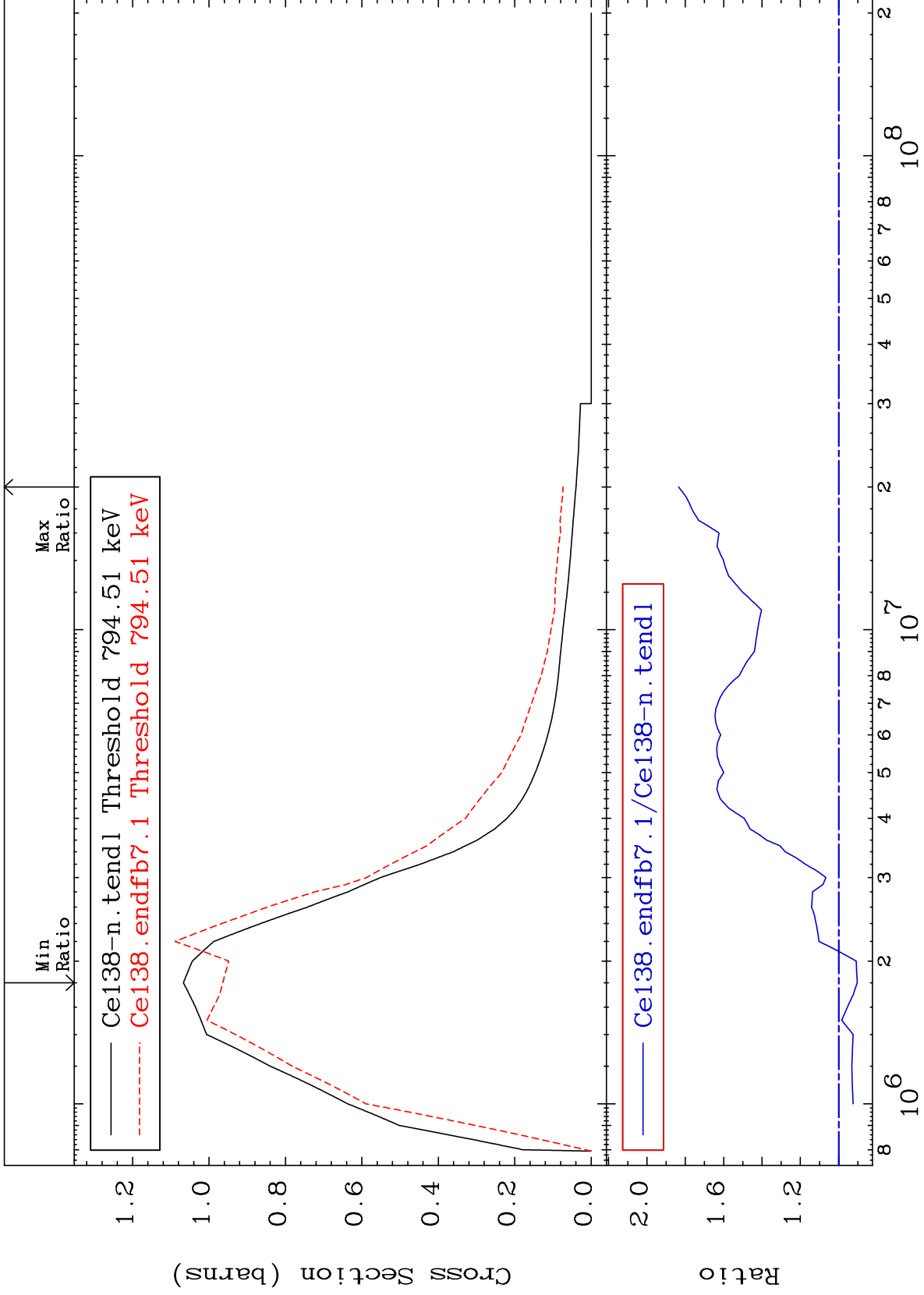
58-Ce-138
-98.80 To 54.74 %



MAT 5831

788.7 keV (n,n') Level
Cross Section

58-Ce-138
-9.663 To 83.47 %



10

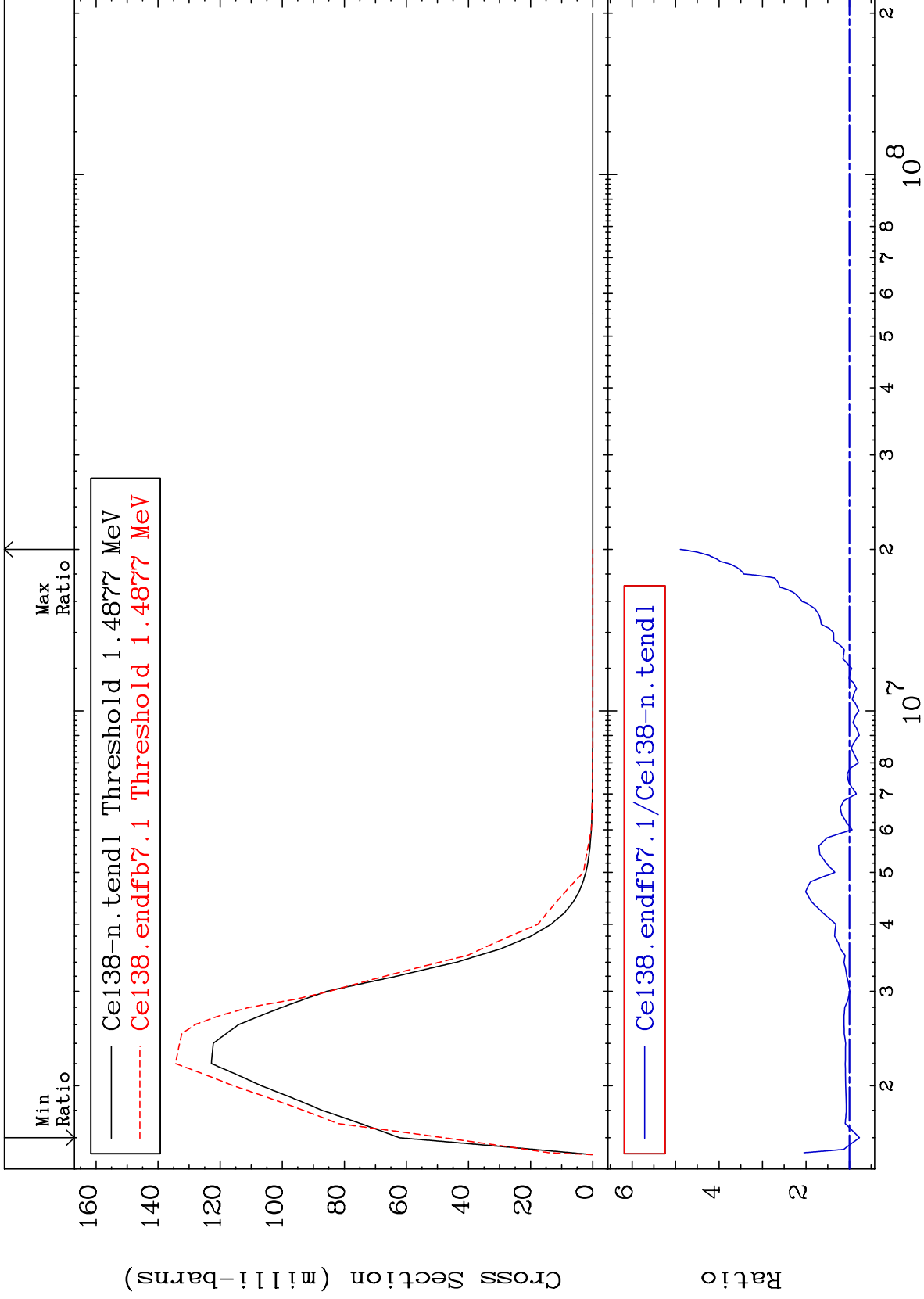
Incident Energy (eV)

58-Ce-138

MAT 5831

1.477 MeV (n,n') Level
Cross Section

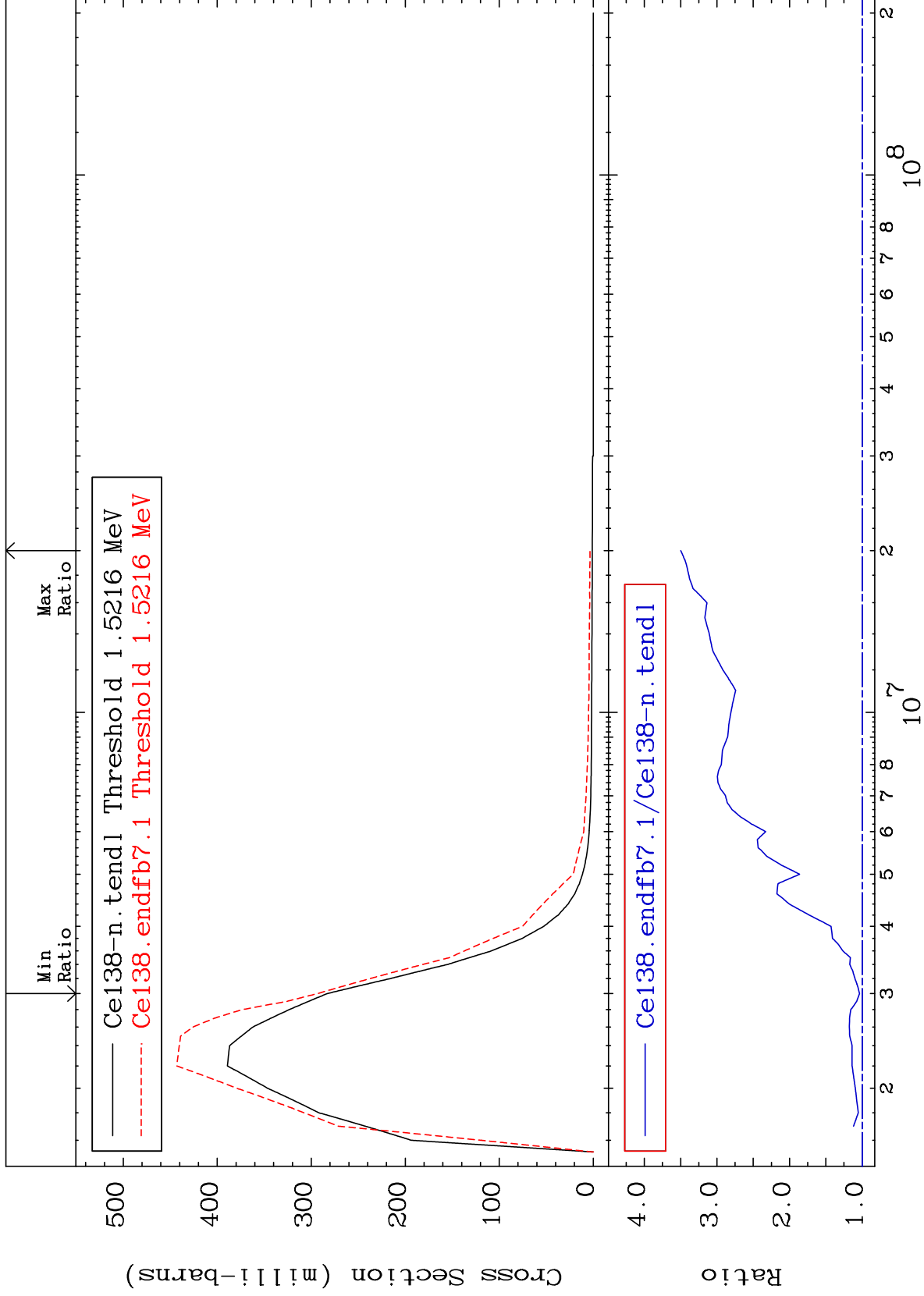
58-Ce-138
-23.03 To 388.9 %



MAT 5831

1.511 MeV (n,n') Level
Cross Section

58-Ce-138
3.633 To 249.8 %



12

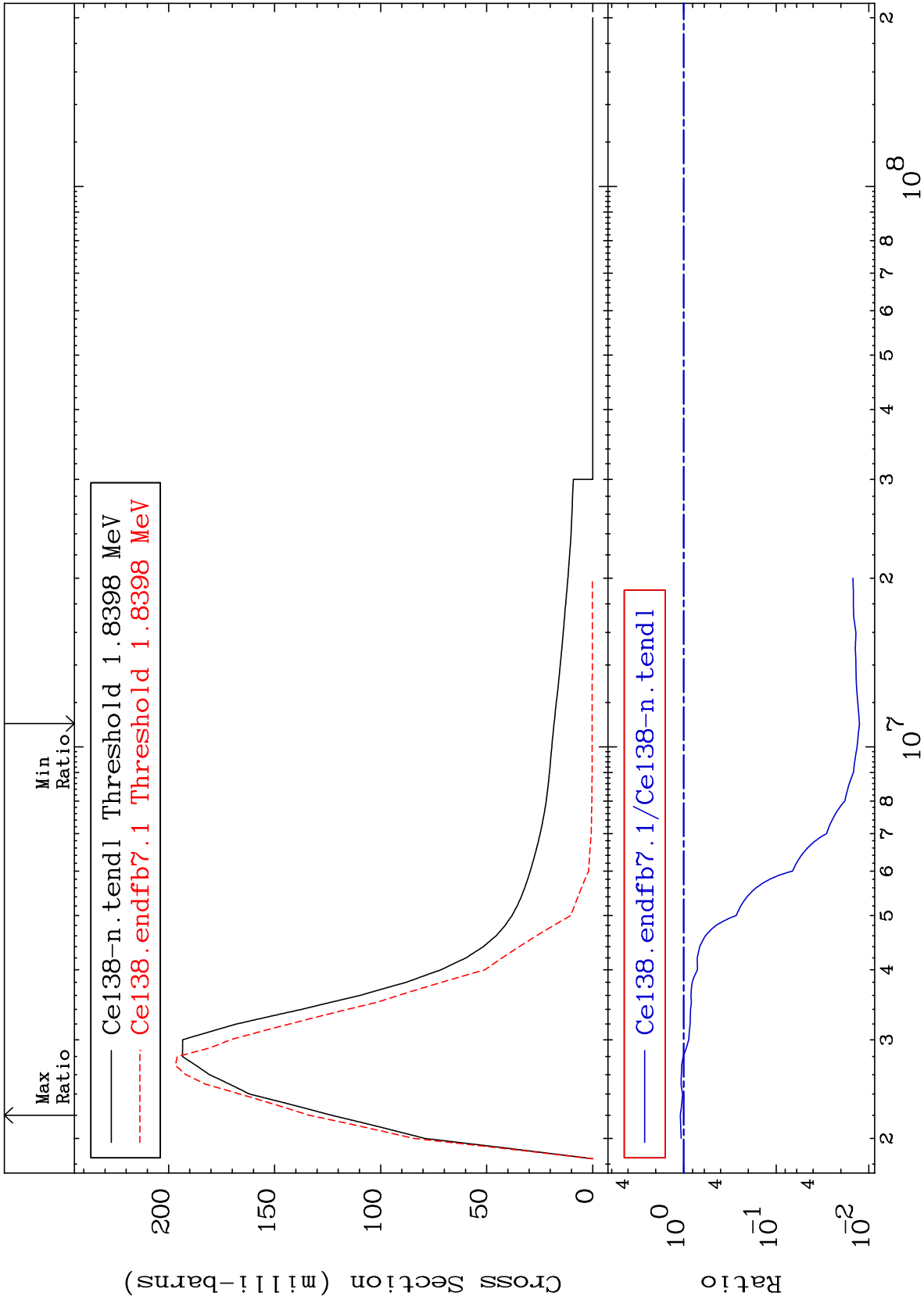
Incident Energy (eV)

58-Ce-138

MAT 5831

1.826 MeV (n,n') Level
Cross Section

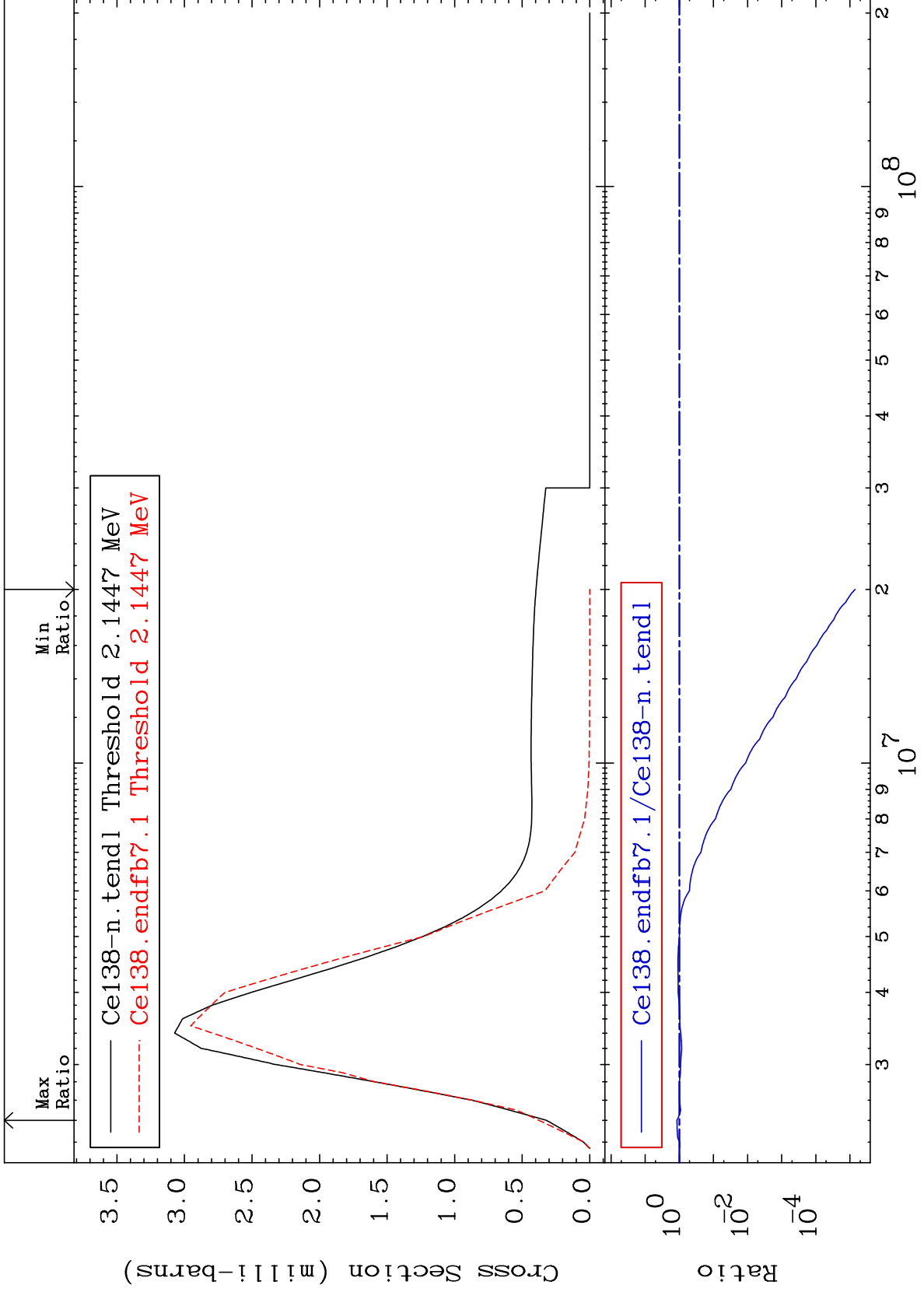
58-Ce-138
-98.74 To 8.561 %



MAT 5831

2.129 MeV (n,n') Level
Cross Section

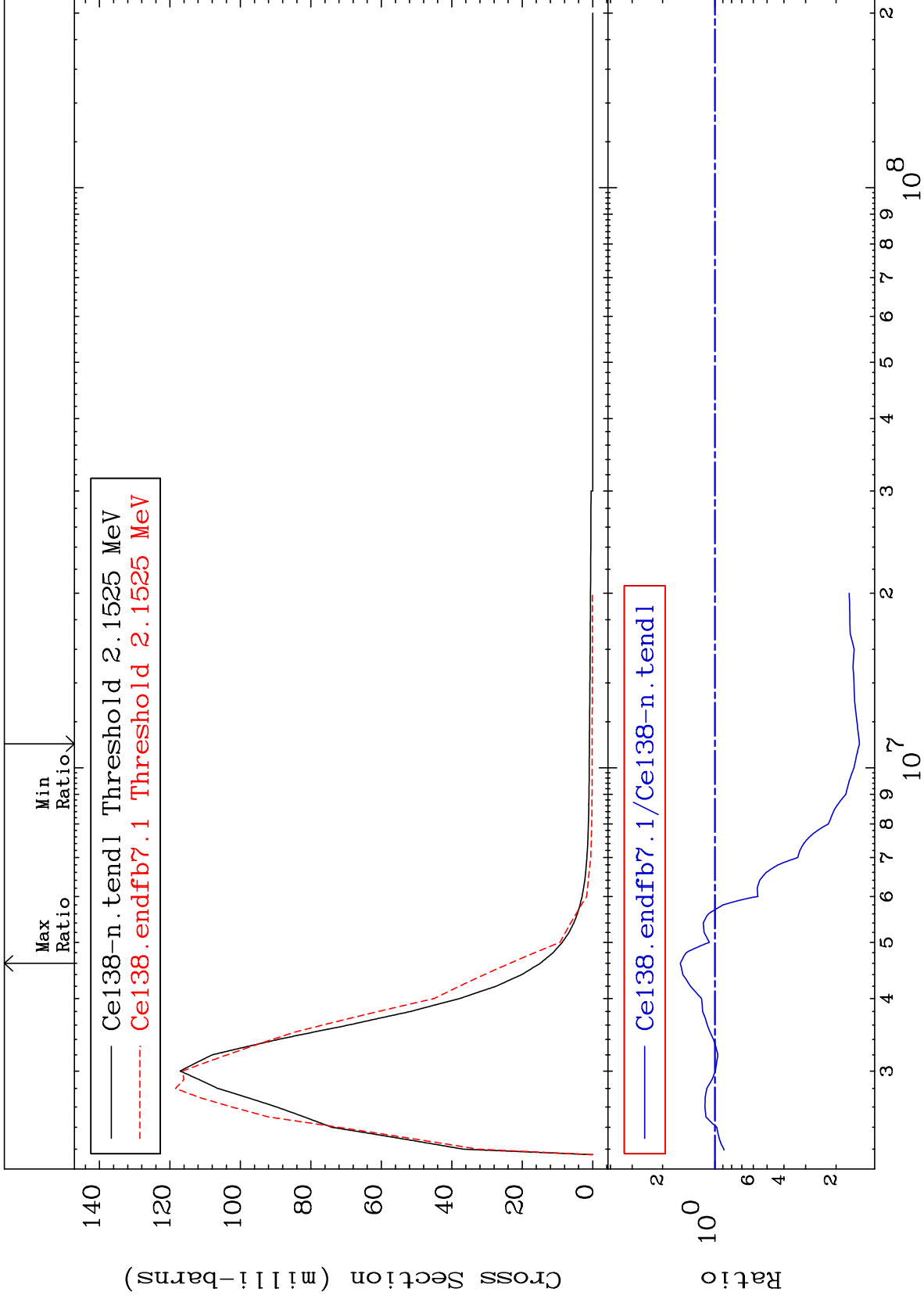
58-Ce-138
-100.0 To 17.62 %



MAT 5831

2.137 MeV (n,n') Level
Cross Section

58-Ce-138
-85.33 To 58.16 %



15

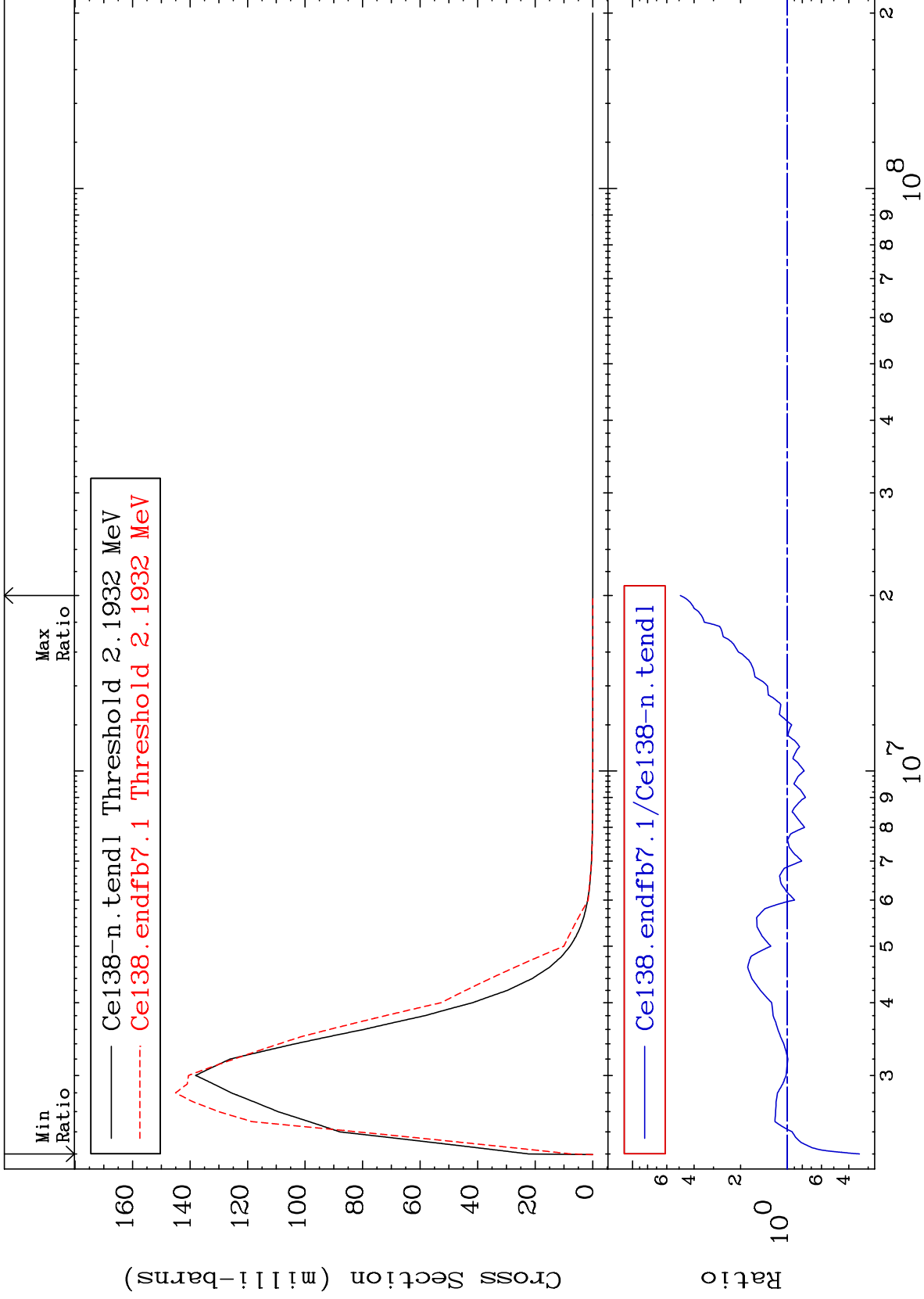
Incident Energy (eV)

58-Ce-138

MAT 5831

2.177 MeV (n,n') Level
Cross Section

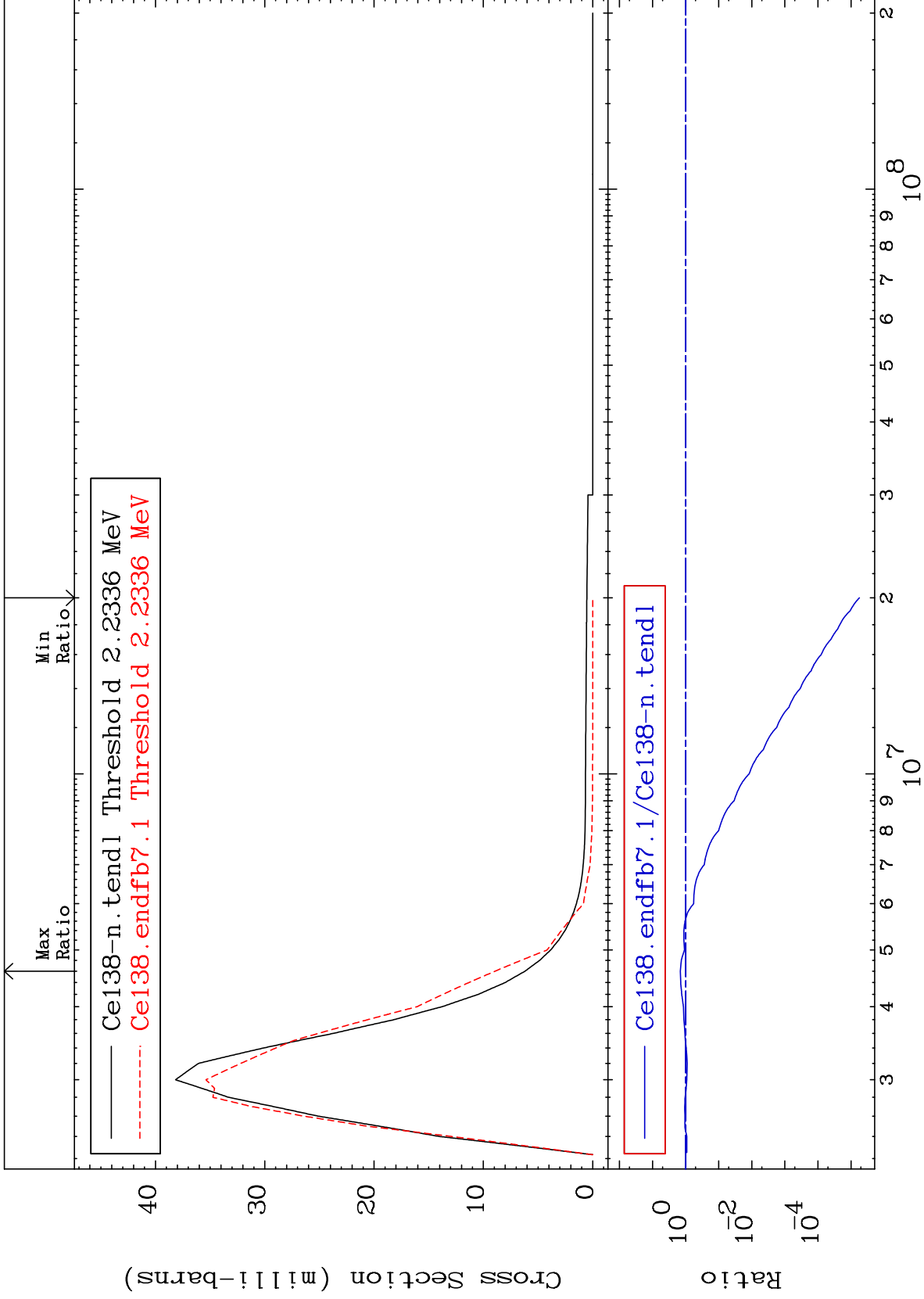
58-Ce-138
-65.85 To 390.8 %



MAT 5831

2.217 MeV (n,n') Level
Cross Section

58-Ce-138
-100.0 To 44.38 %



17

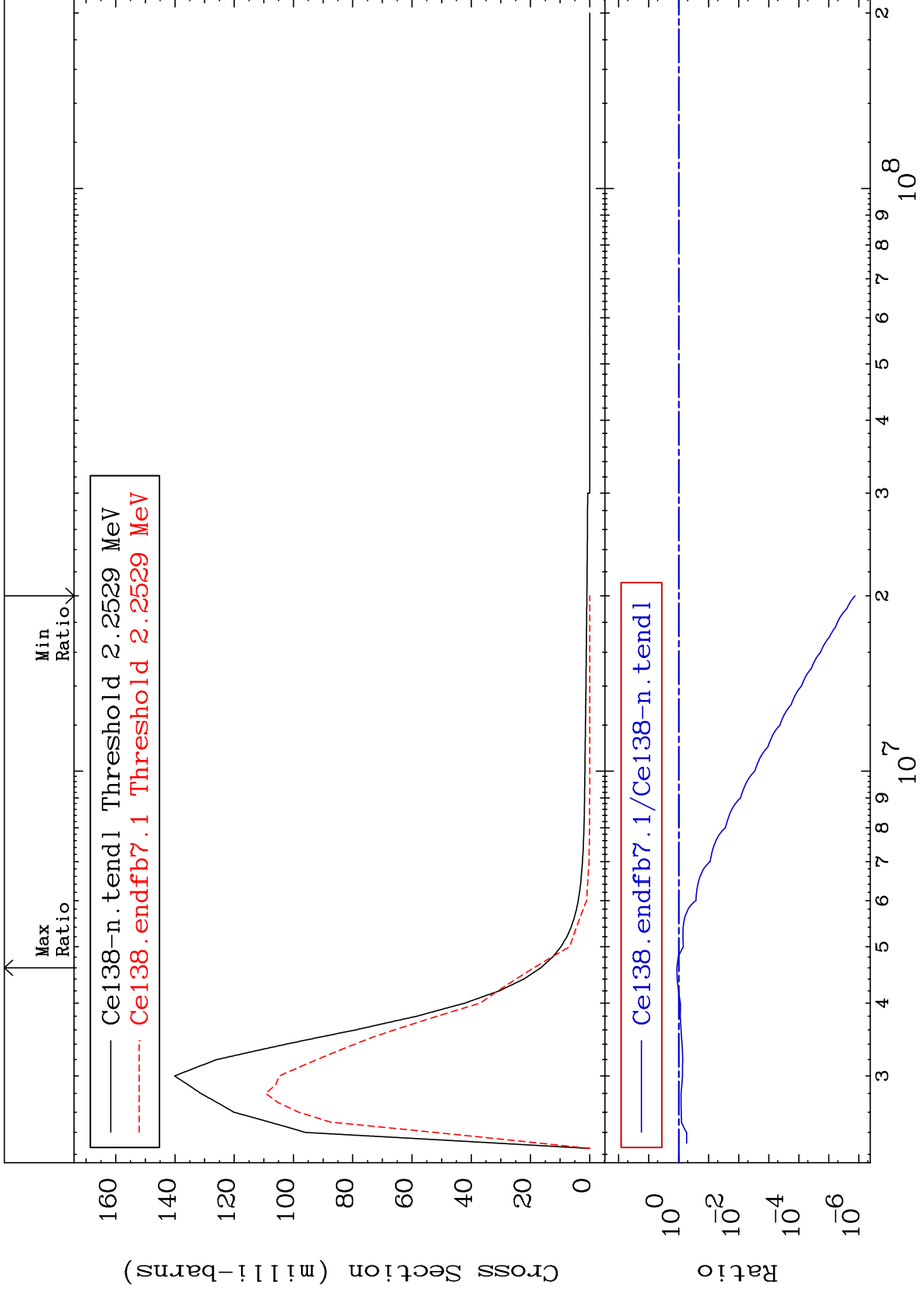
Incident Energy (eV)

58-Ce-138

MAT 5831

2.237 MeV (n,n') Level
Cross Section

58-Ce-138
-100.0 To 14.20 %



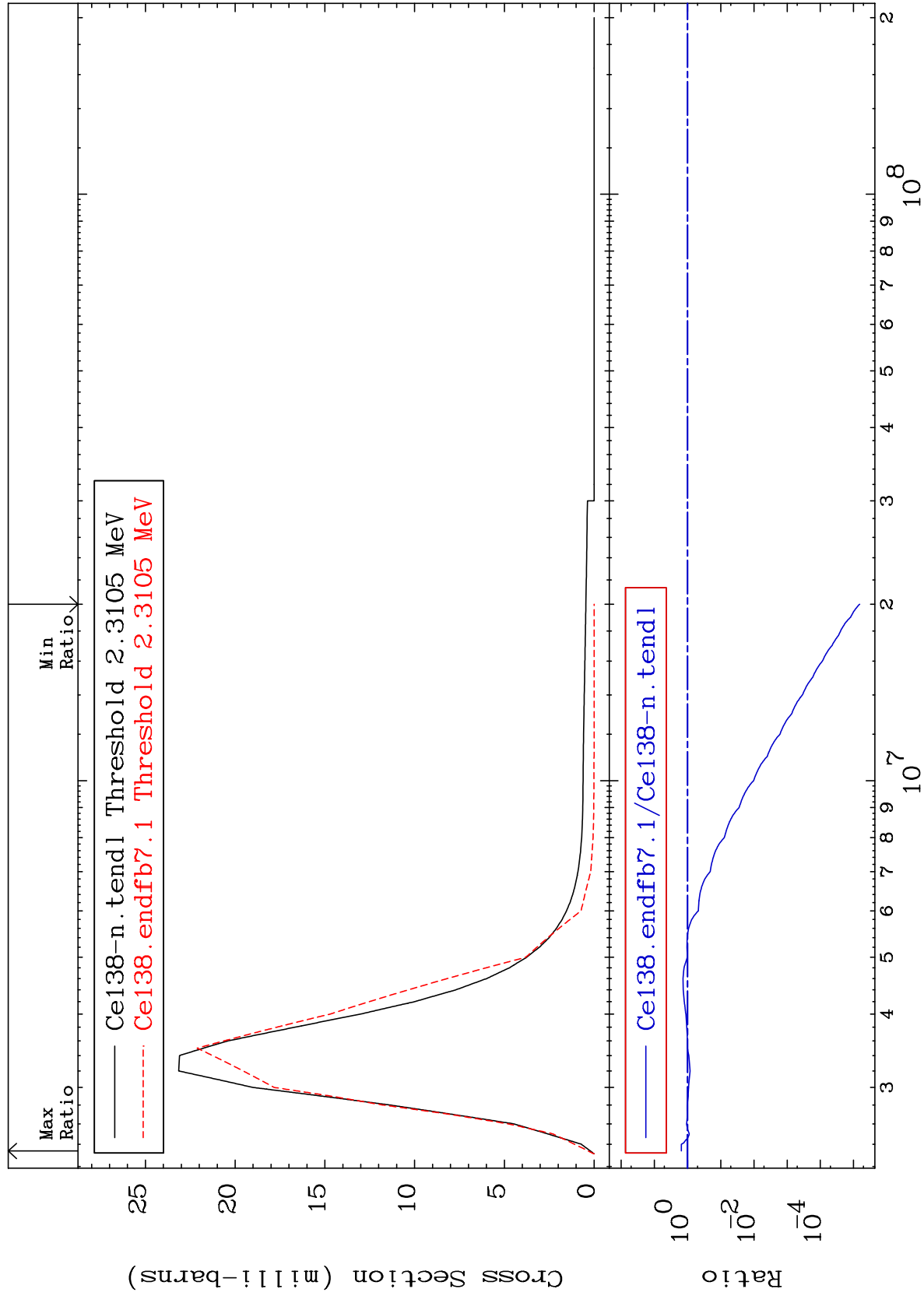
MAT 5831

2.294 MeV (n,n') Level

58-Ce-138

-100.0 To 53.69 %

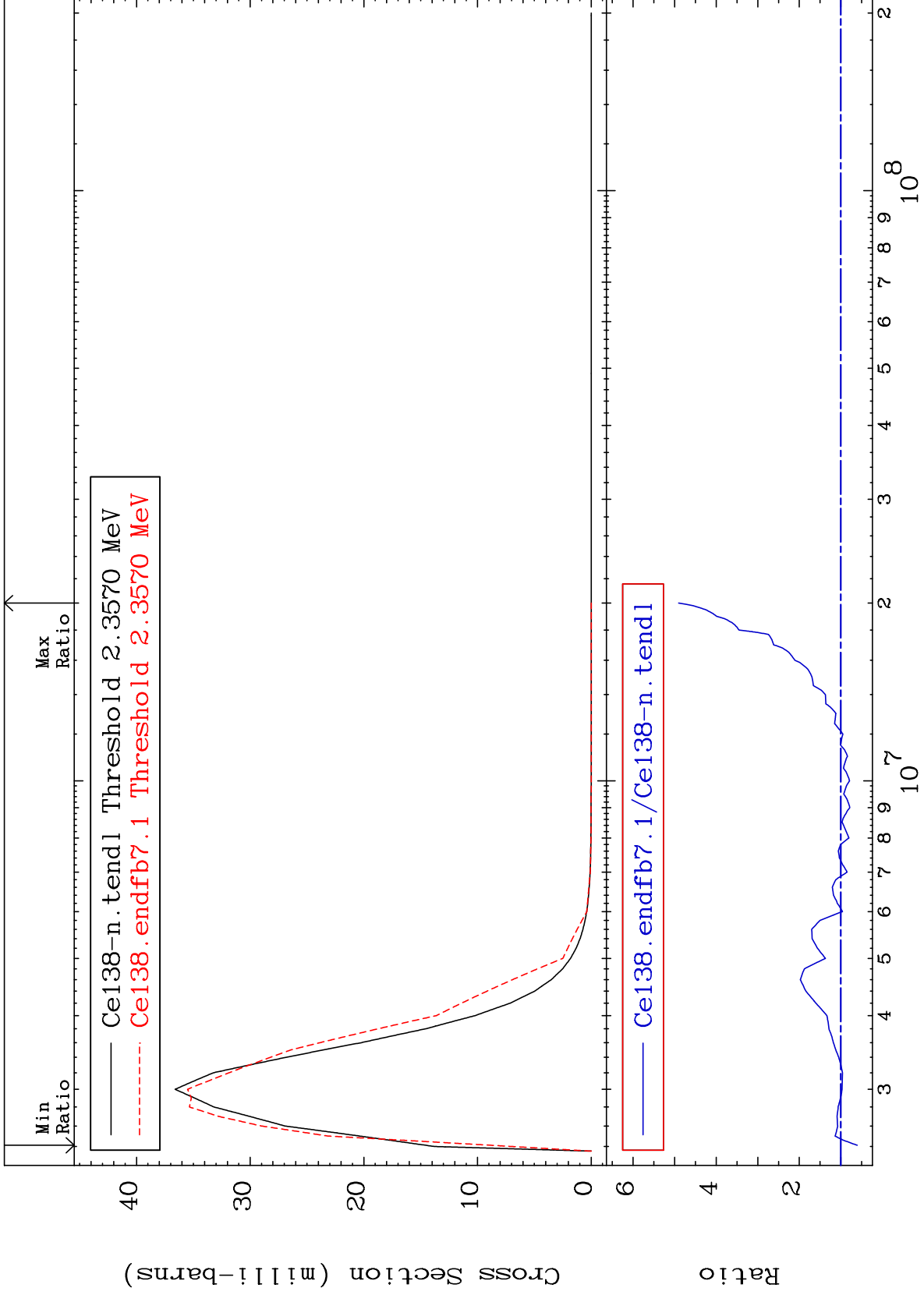
Cross Section



MAT 5831

2.340 MeV (n,n') Level
Cross Section

58-Ce-138
-39.46 To 390.4 %



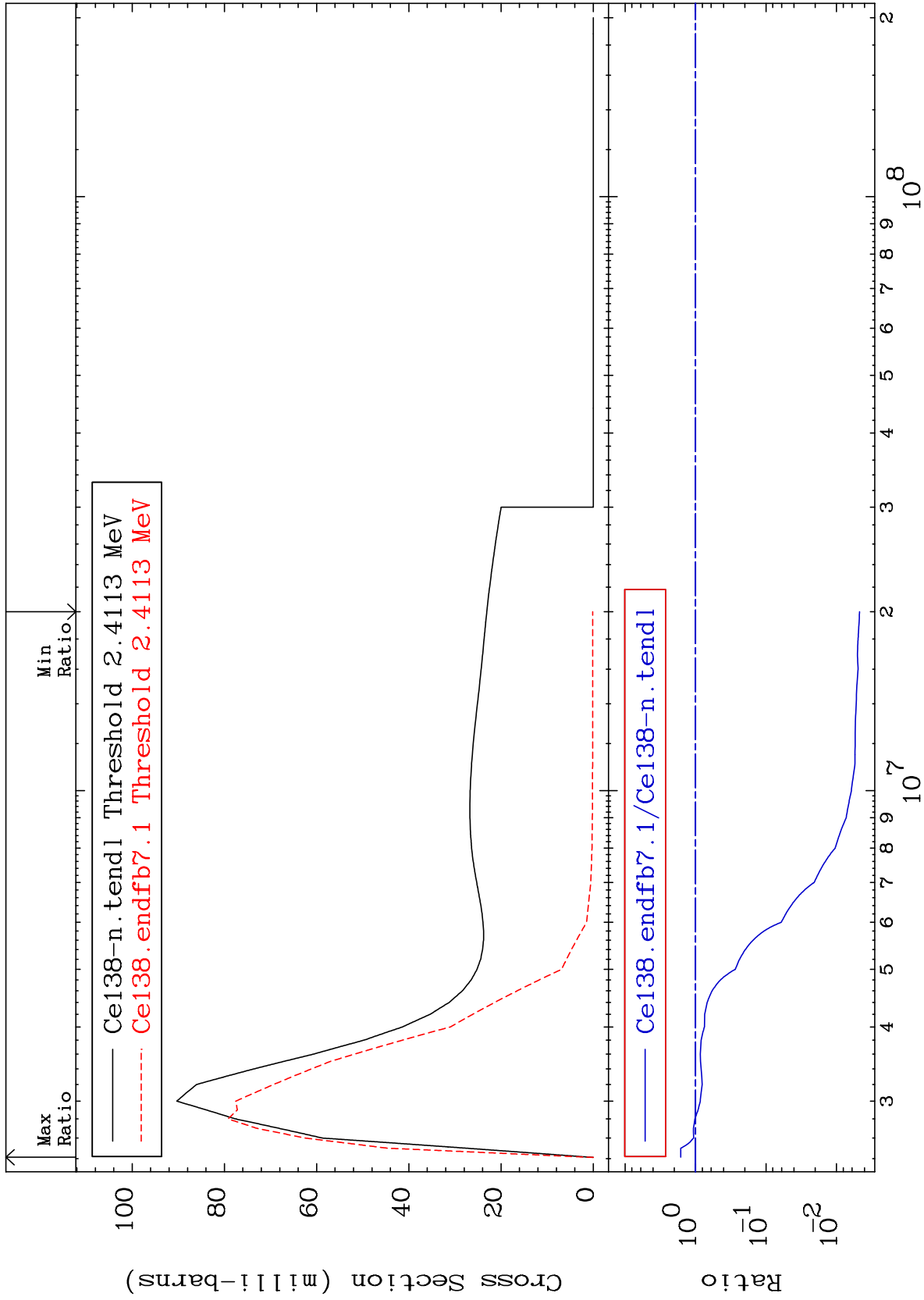
MAT 5831

2.394 MeV (n,n') Level

58-Ce-138

-99.53 To 61.93 %

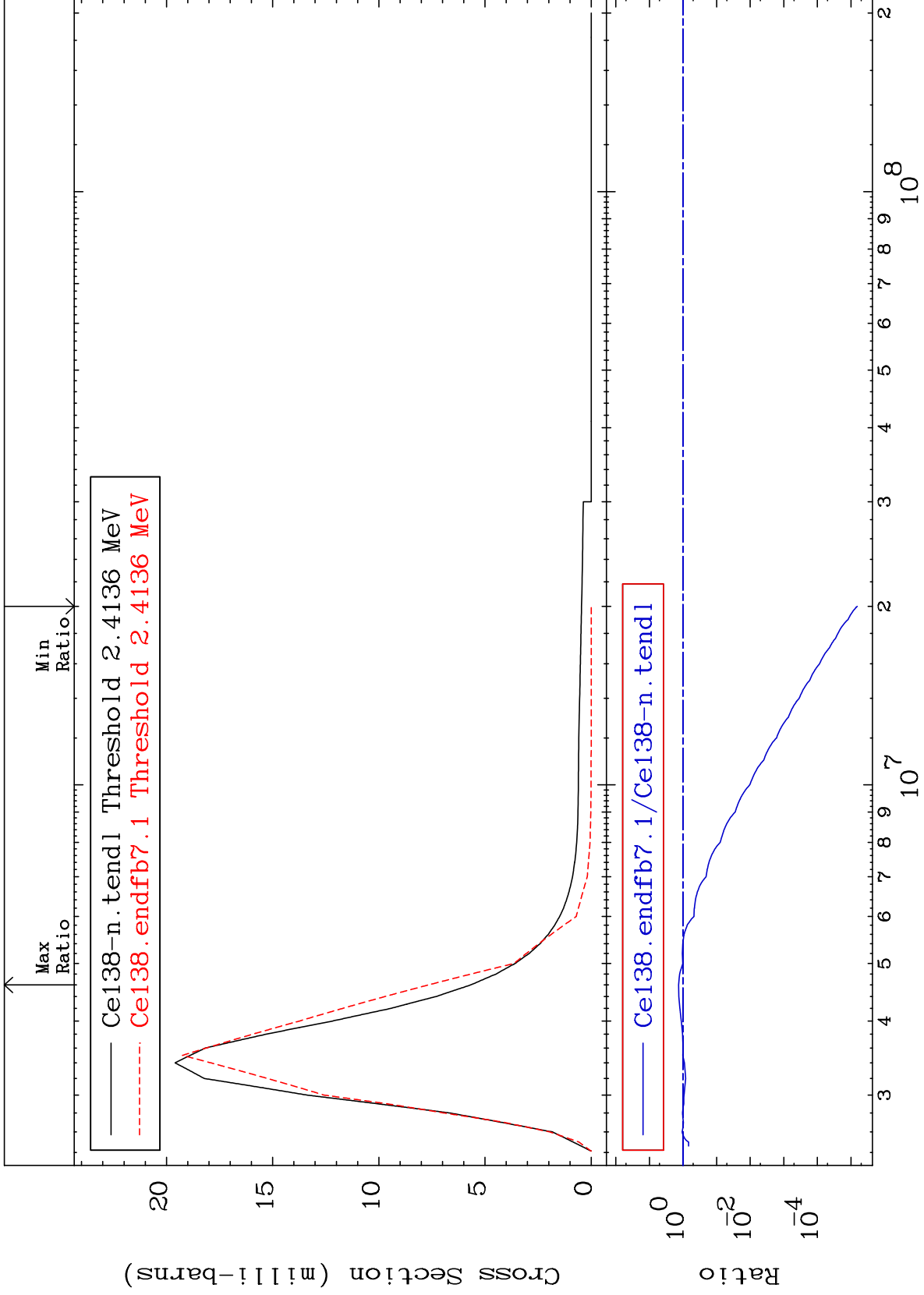
Cross Section



MAT 5831

2.396 MeV (n,n') Level
Cross Section

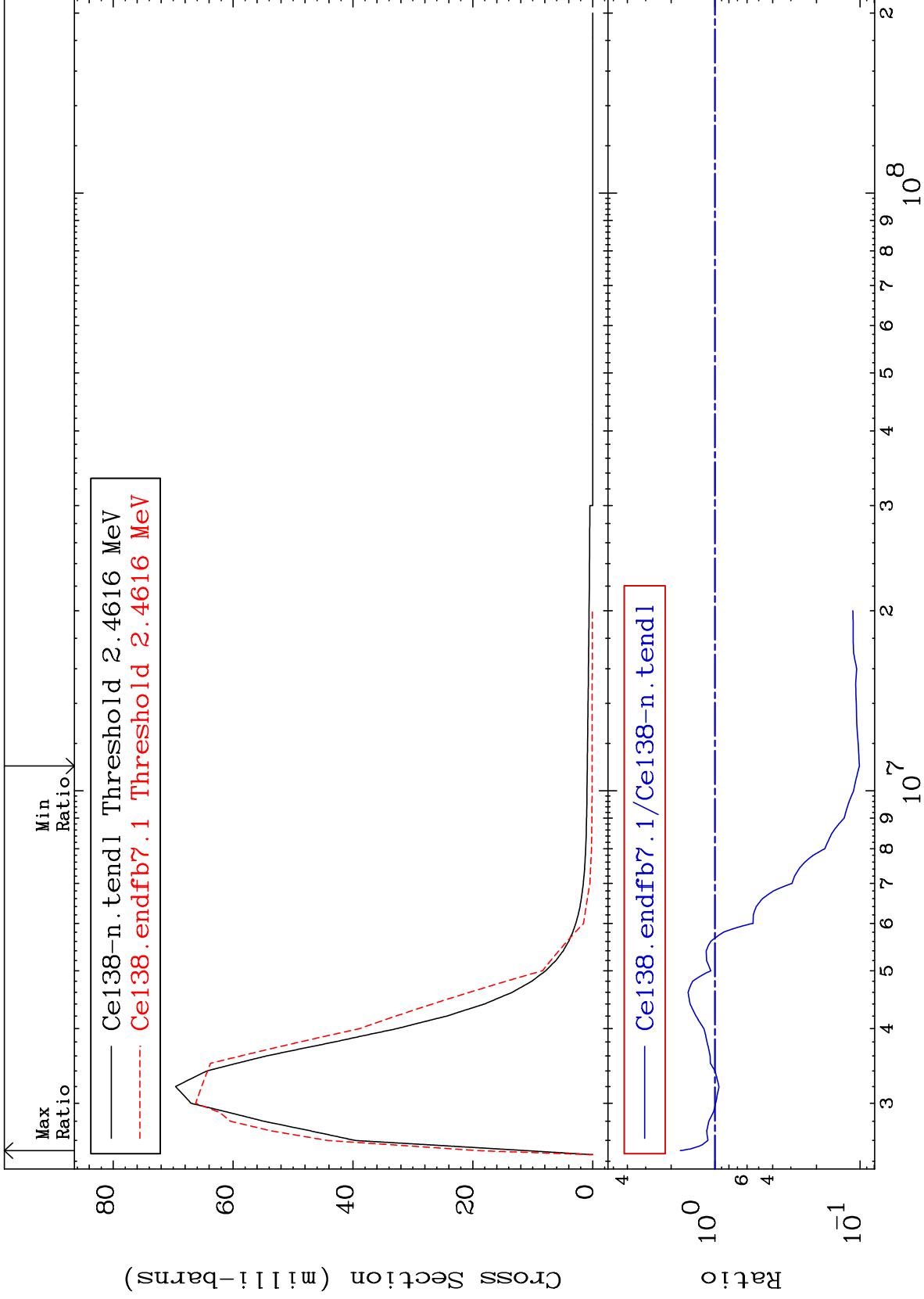
58-Ce-138
-100.0 To 35.17 %

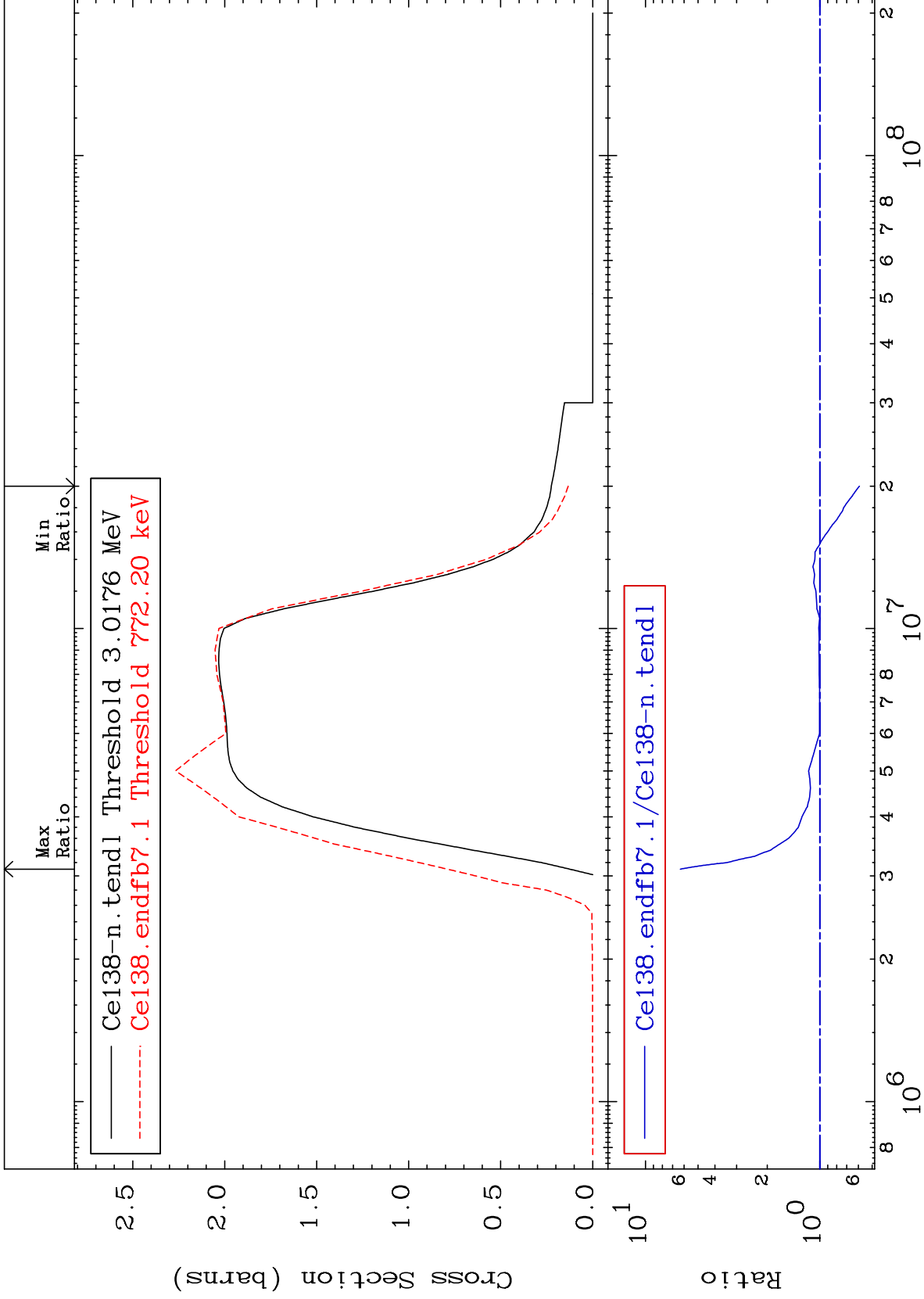


MAT 5831

2.444 MeV (n,n') Level
Cross Section

58-Ce-138
-89.89 To 72.91 %

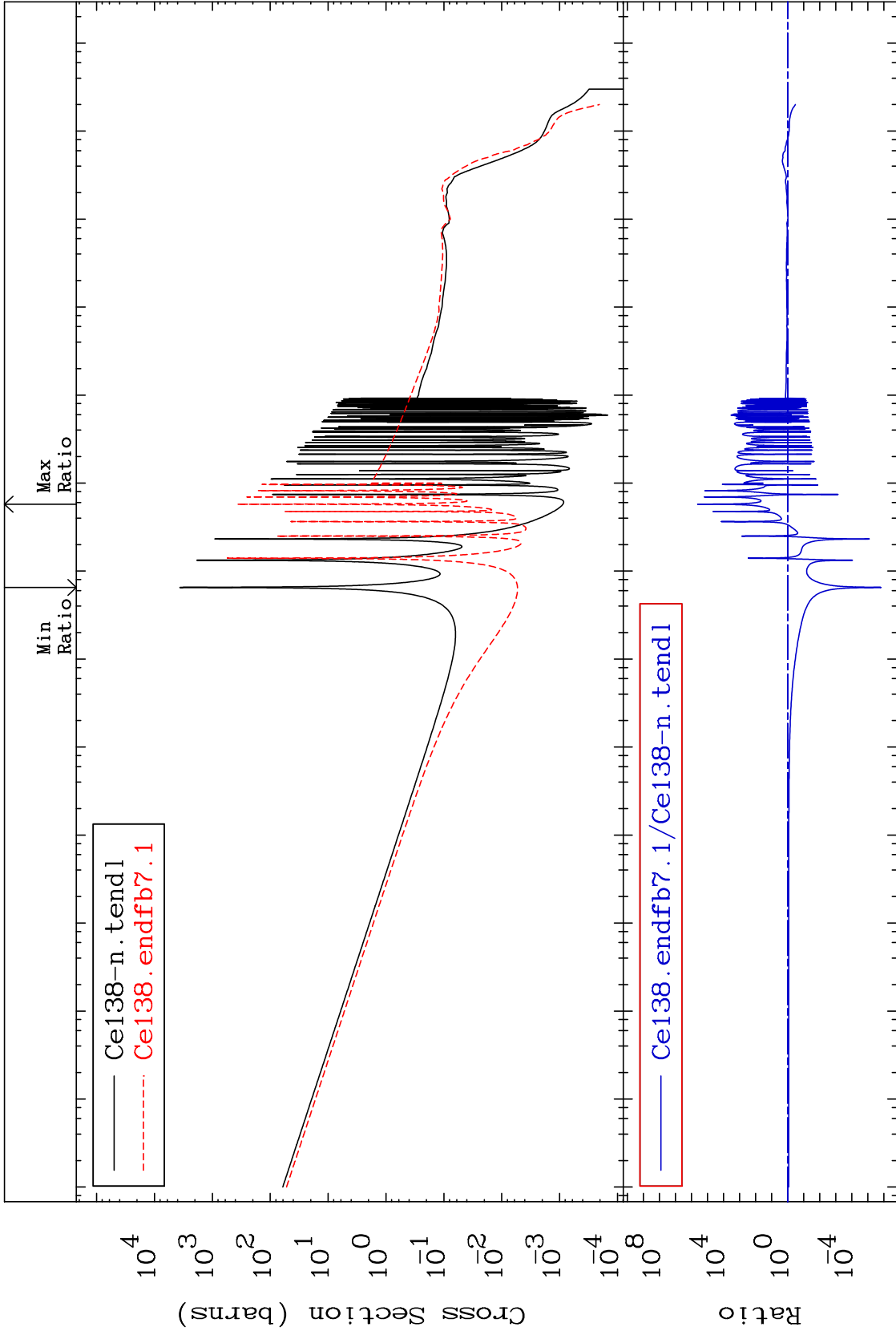




MAT 5831

(n, γ)
Cross Section

58-Ce-138
-100.0 To 9999. %



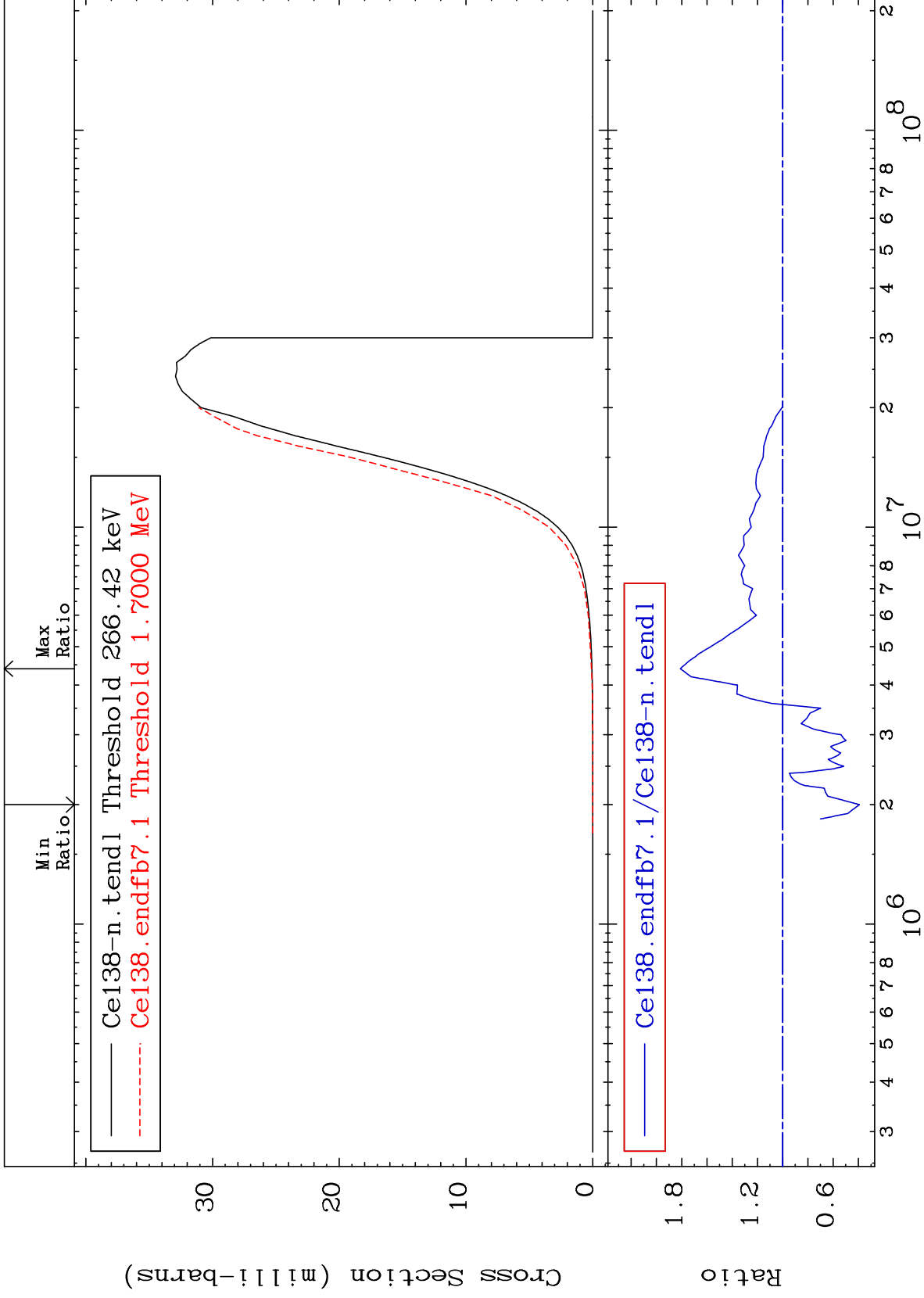
MAT 5831

(n,p)

58-Ce-138

Cross Section

-60.83 To 81.05 %



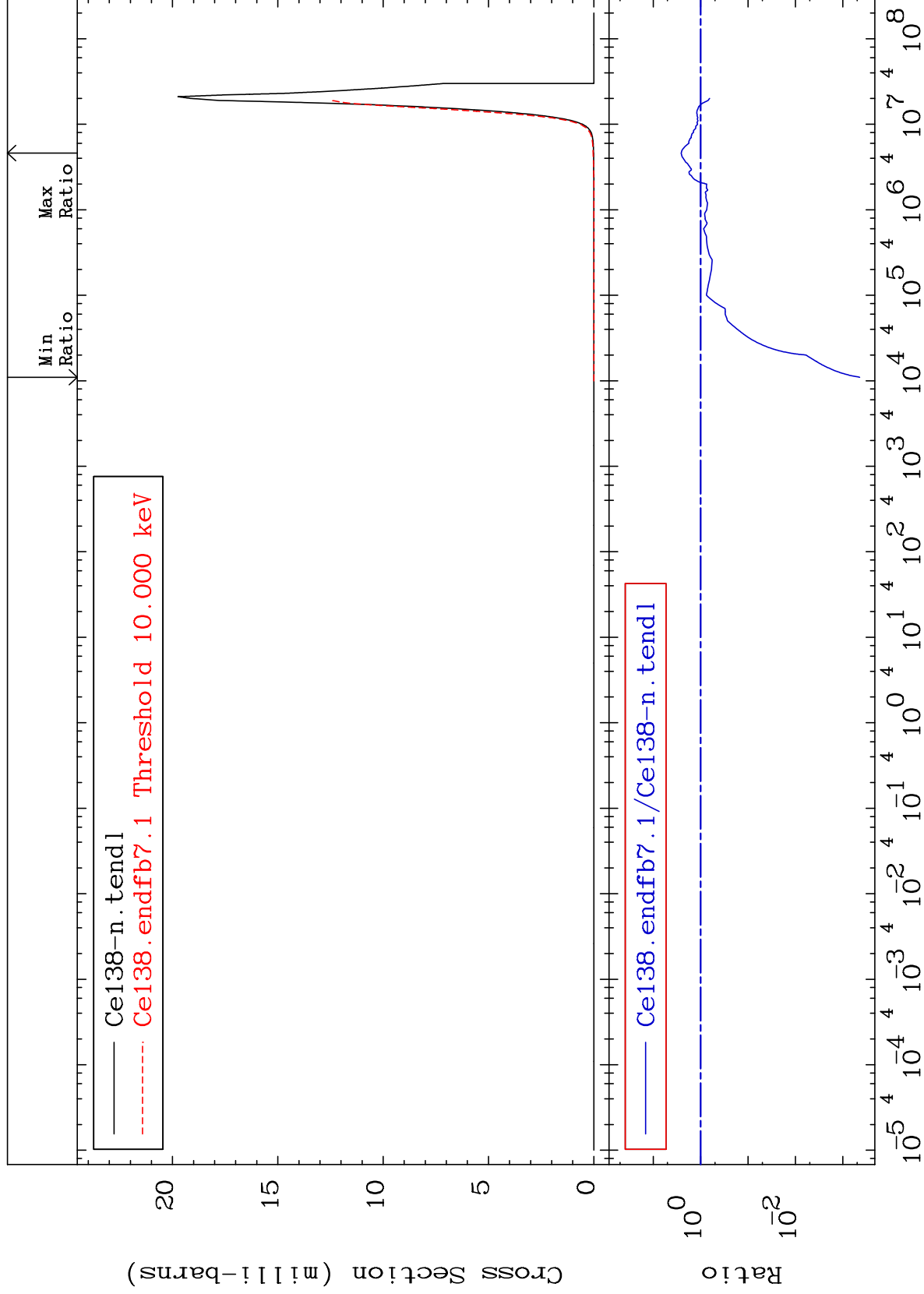
MAT 5831

(n, α)

58-Ce-138

Cross Section

-99.96 To 157.5 %



27

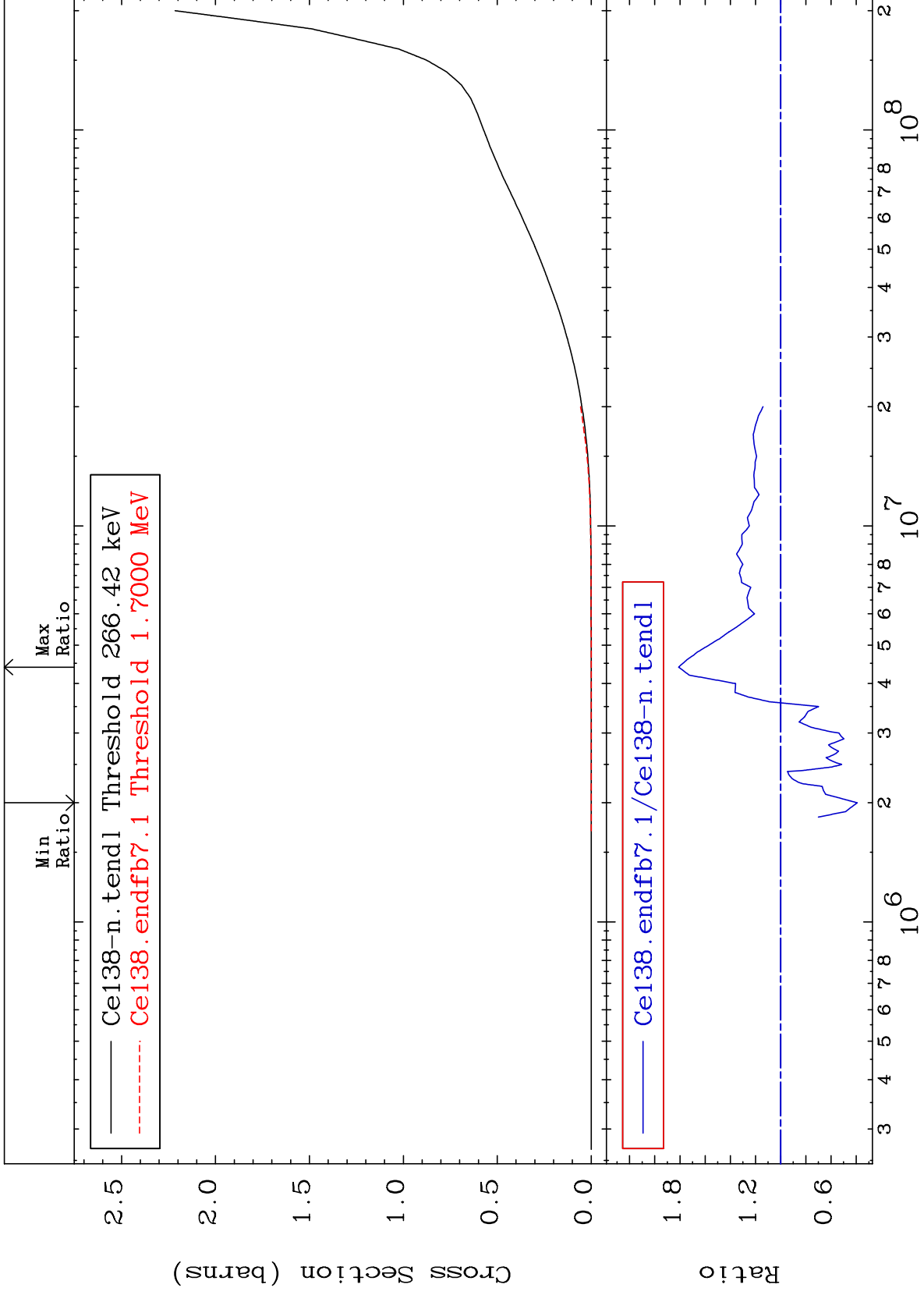
Incident Energy (eV)

58-Ce-138

MAT 5831

Hydrogen Production
Cross Section

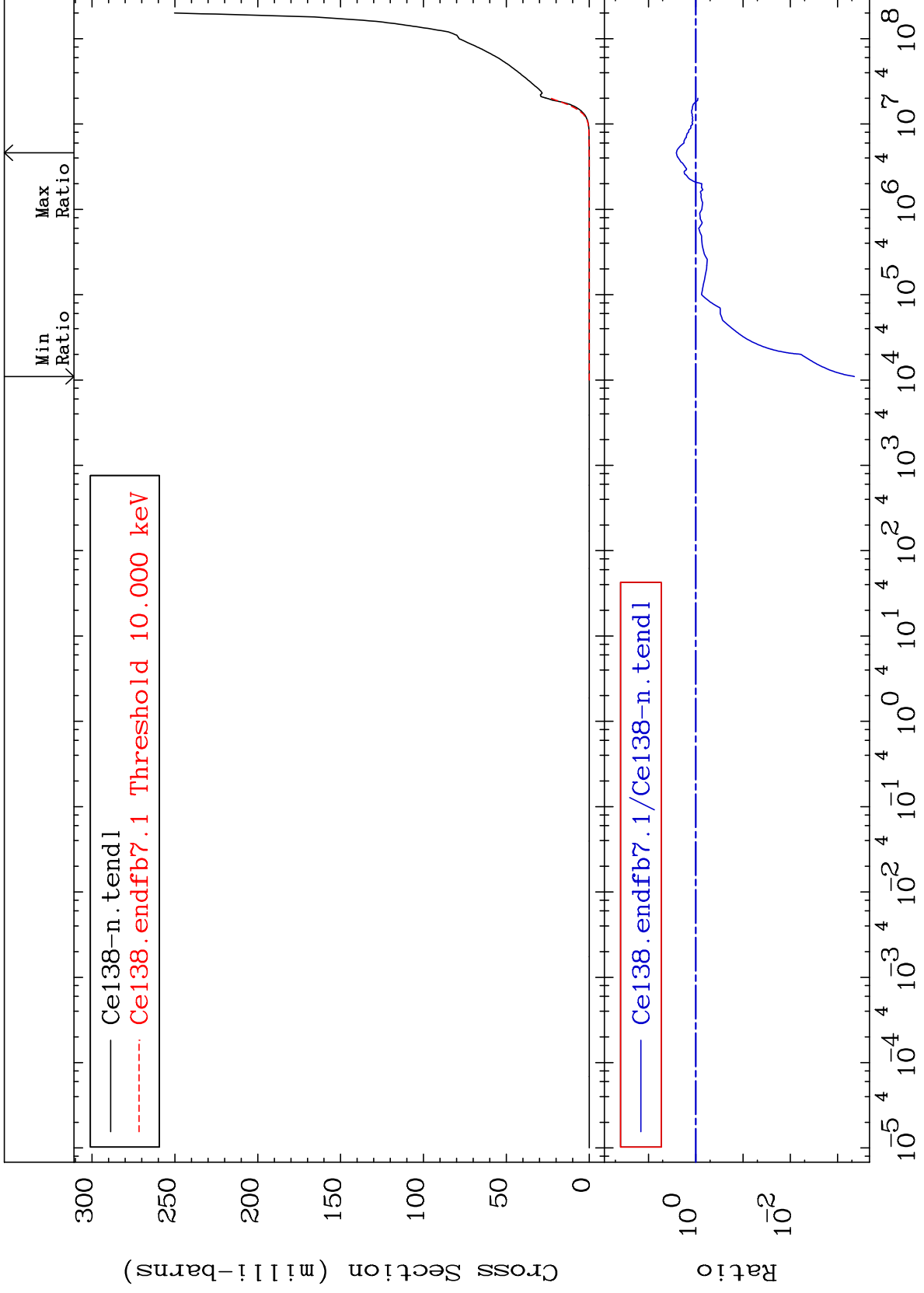
58-Ce-138
-60.83 To 81.05 %



MAT 5831

He-4 Production
Cross Section

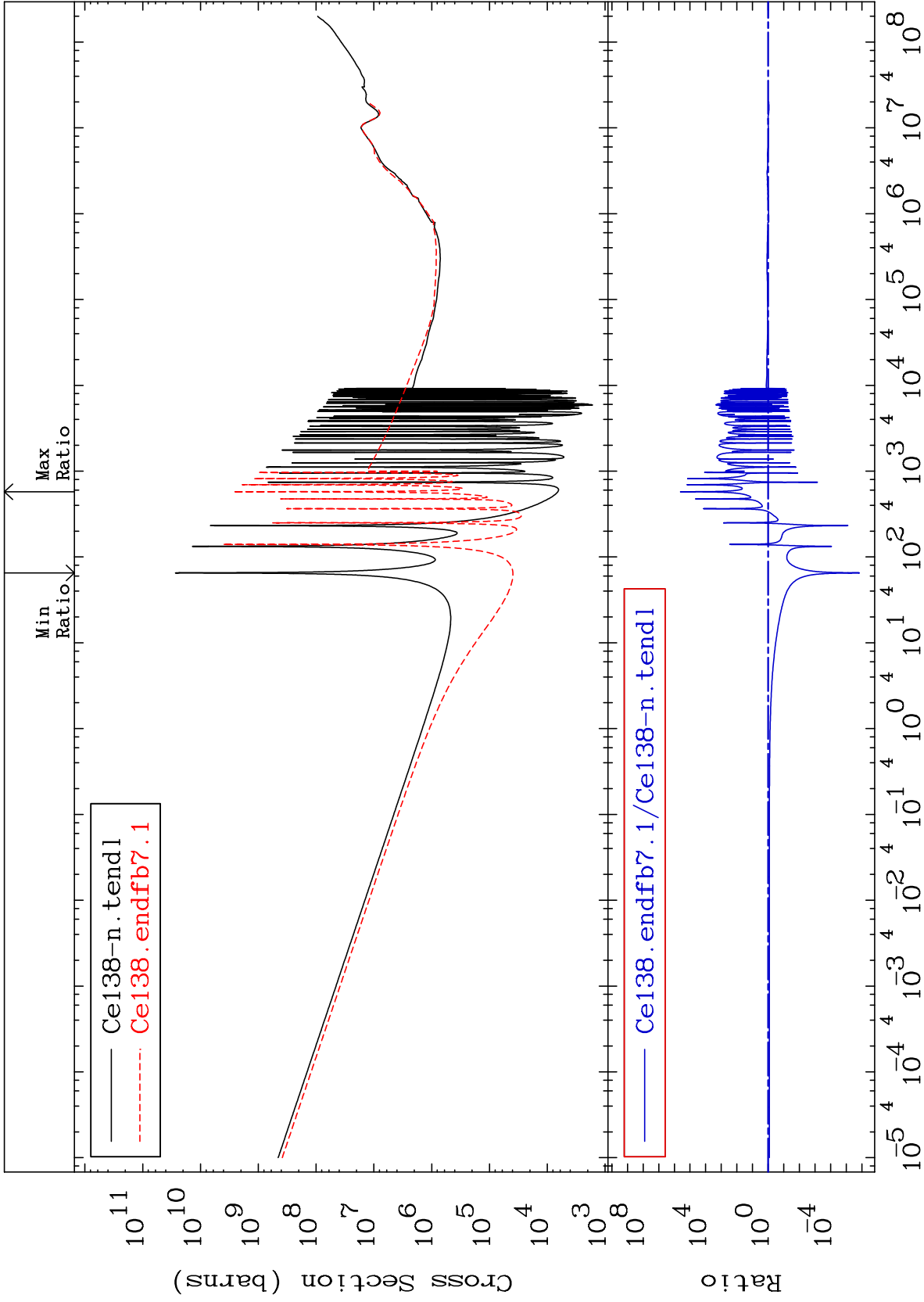
58-Ce-138
-99.96 To 157.5 %



29

Incident Energy (eV)

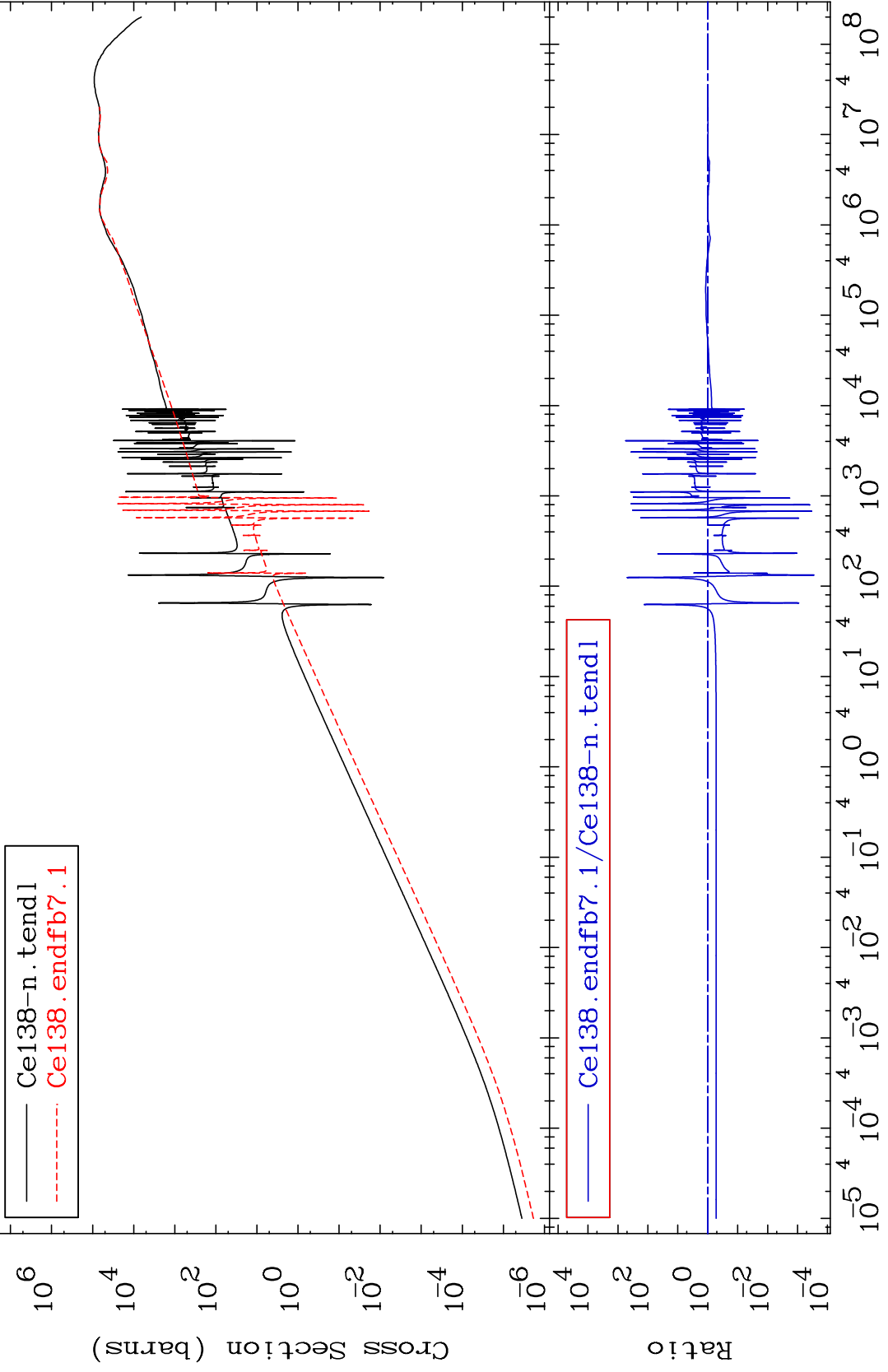
58-Ce-138

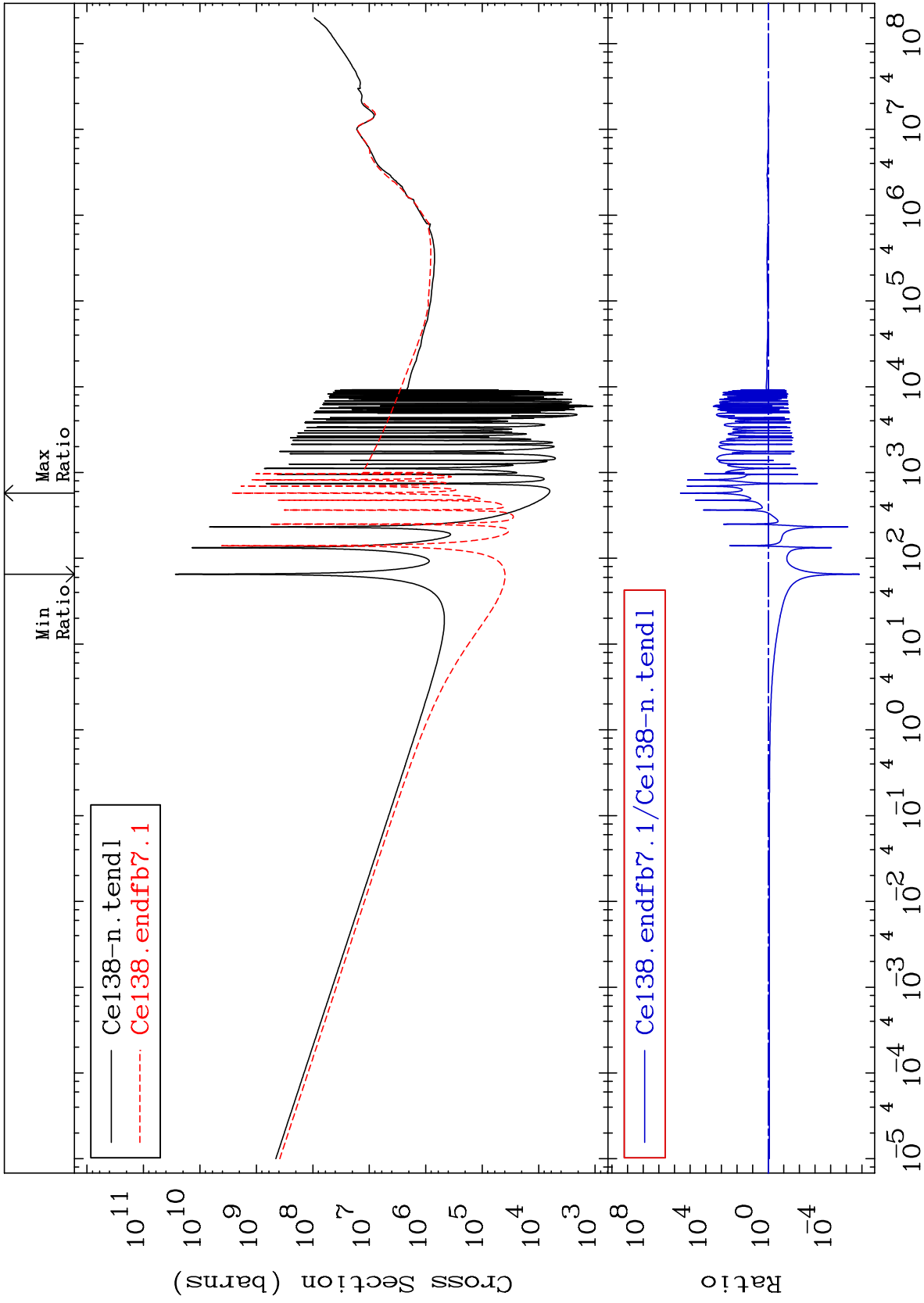


MAT 5831

Kerma elastic
Cross Section

58-Ce-138
-99.97 To 9999. %

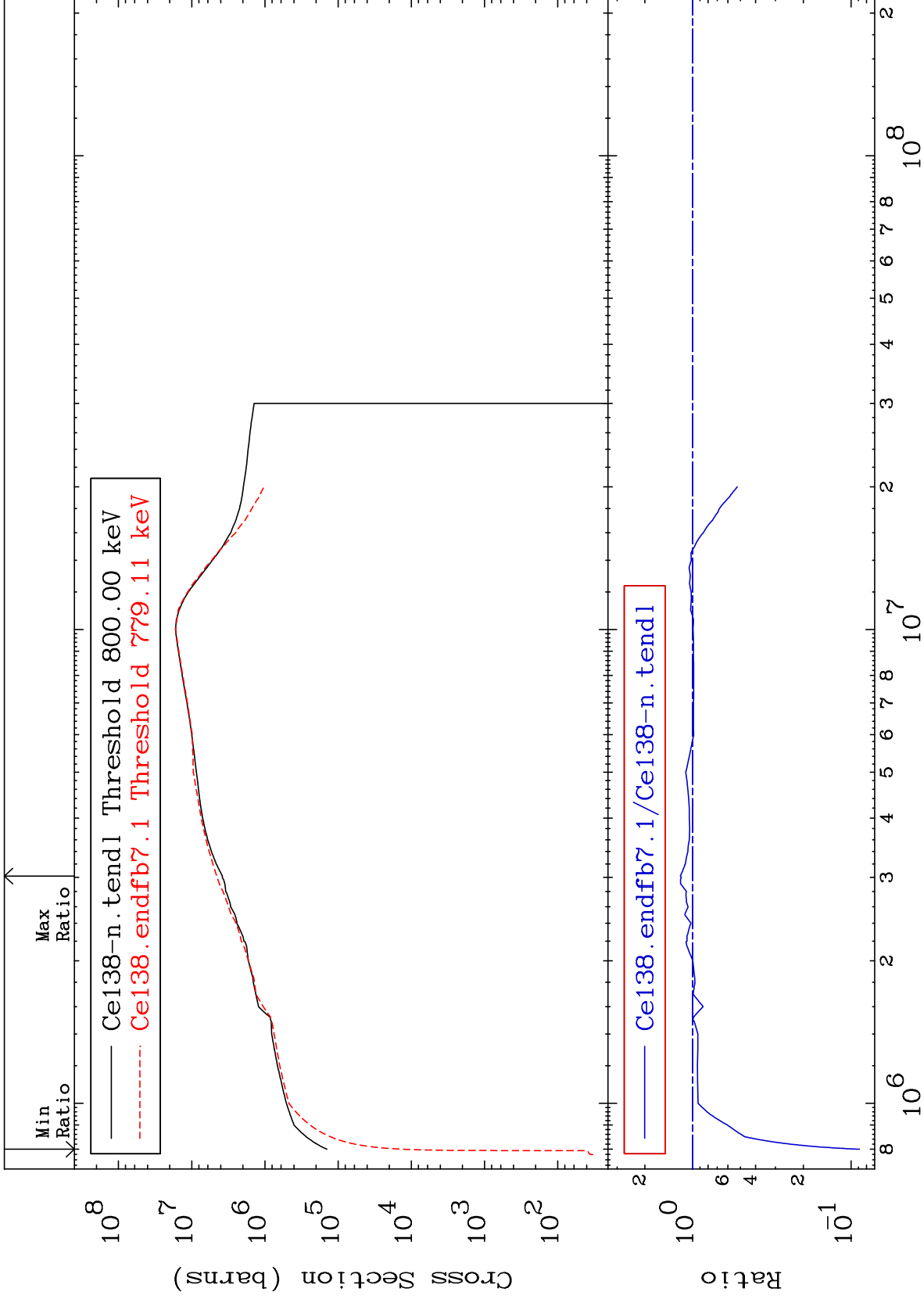




MAT 5831

Kerma inelastic (mt51-91)
Cross Section

58-Ce-138
-91.14 To 19.53 %



33

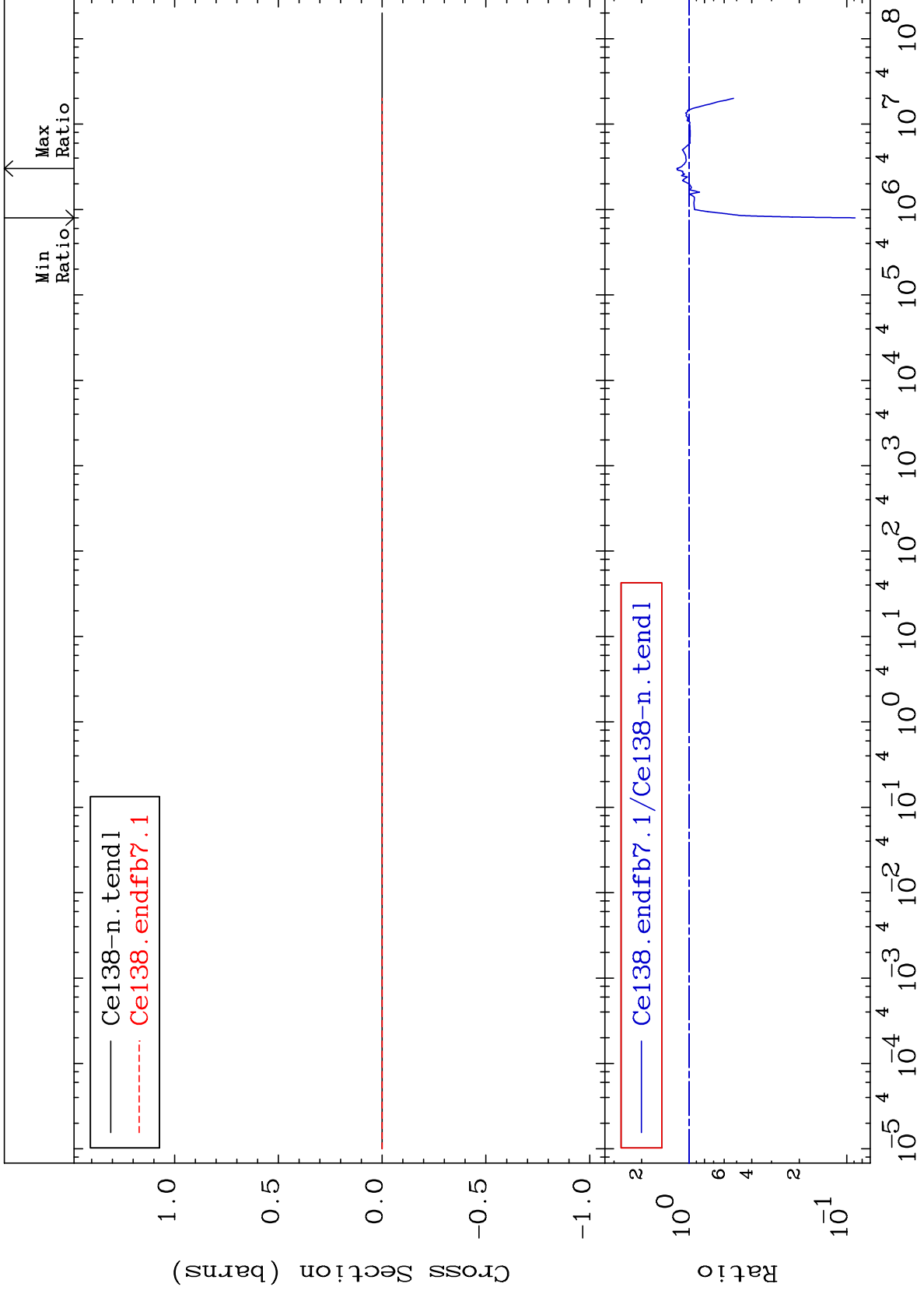
Incident Energy (eV)

58-Ce-138

MAT 5831

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

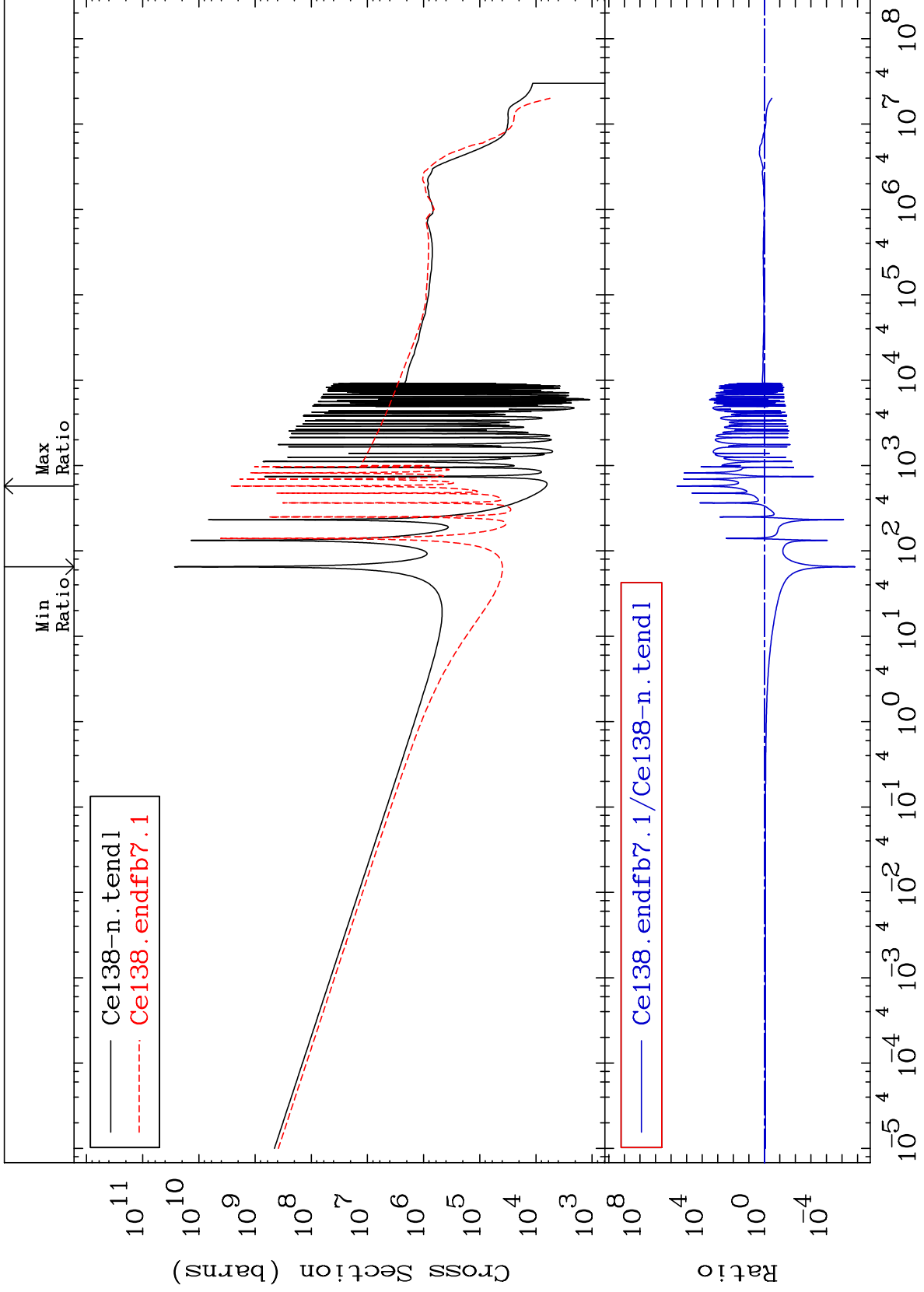
58-Ce-138
-91.14 To 19.53 %



MAT 5831

Kerma capture (mt102)
Cross Section

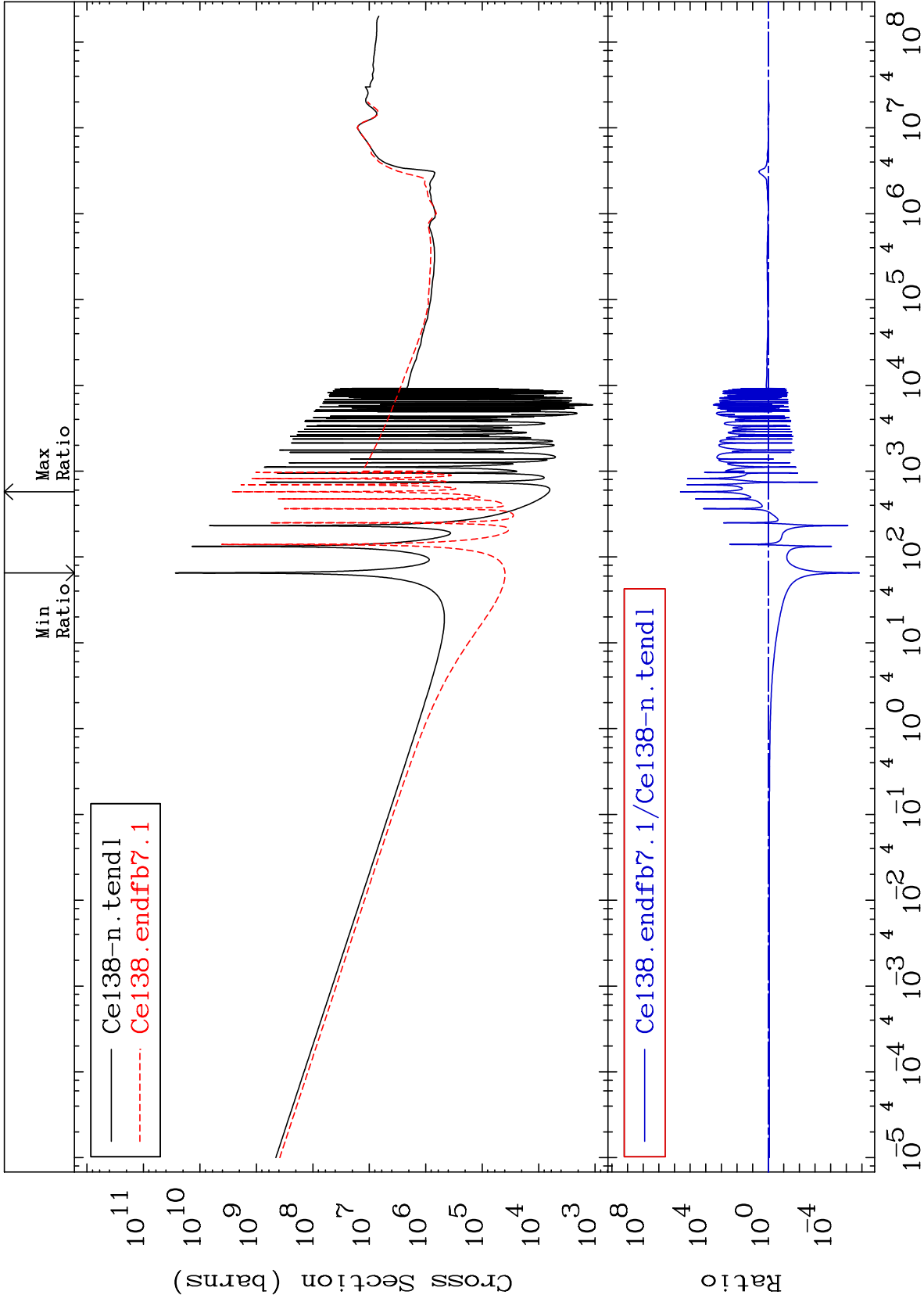
58-Ce-138
-100.0 To 9999. %

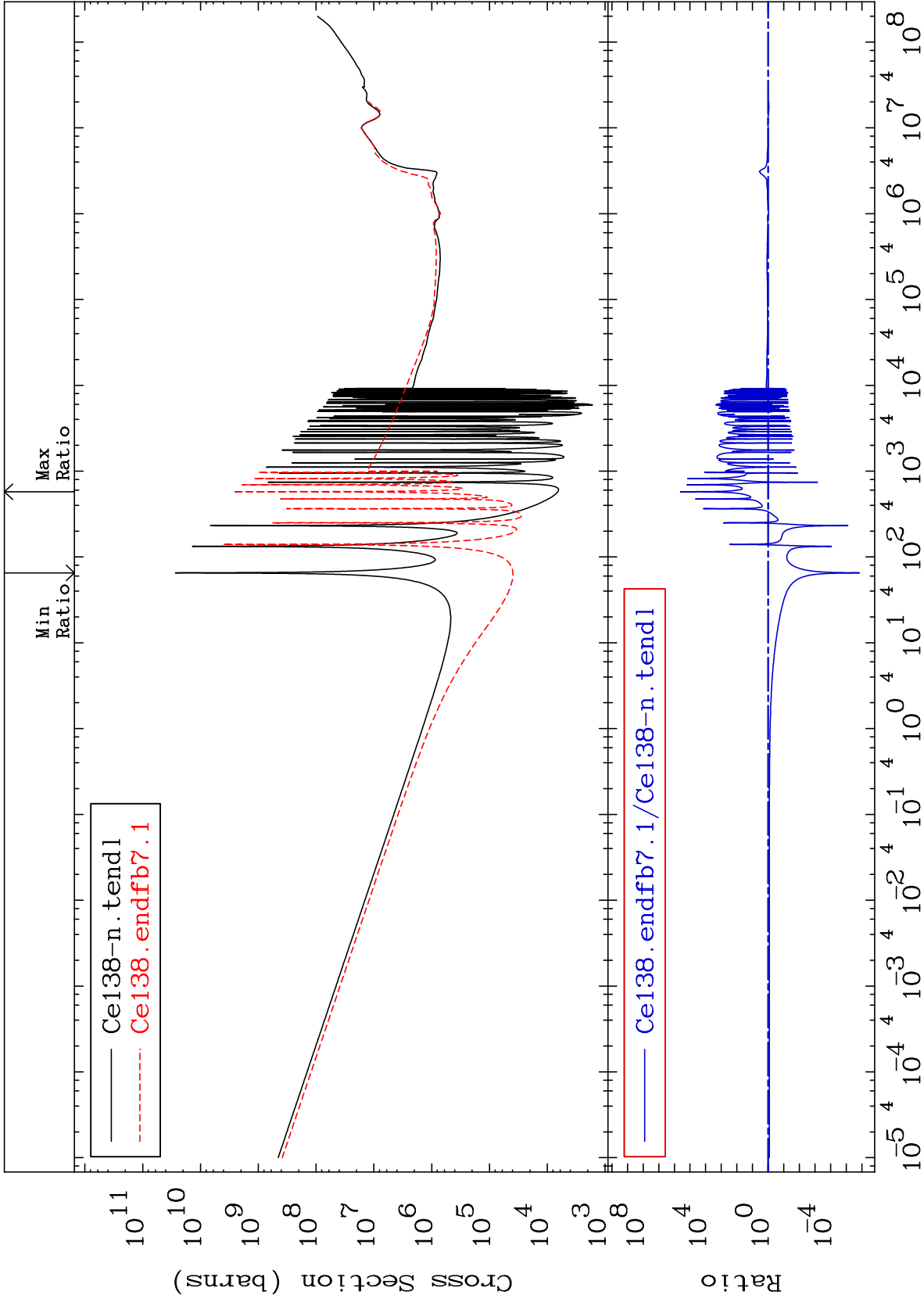


35

Incident Energy (eV)

58-Ce-138

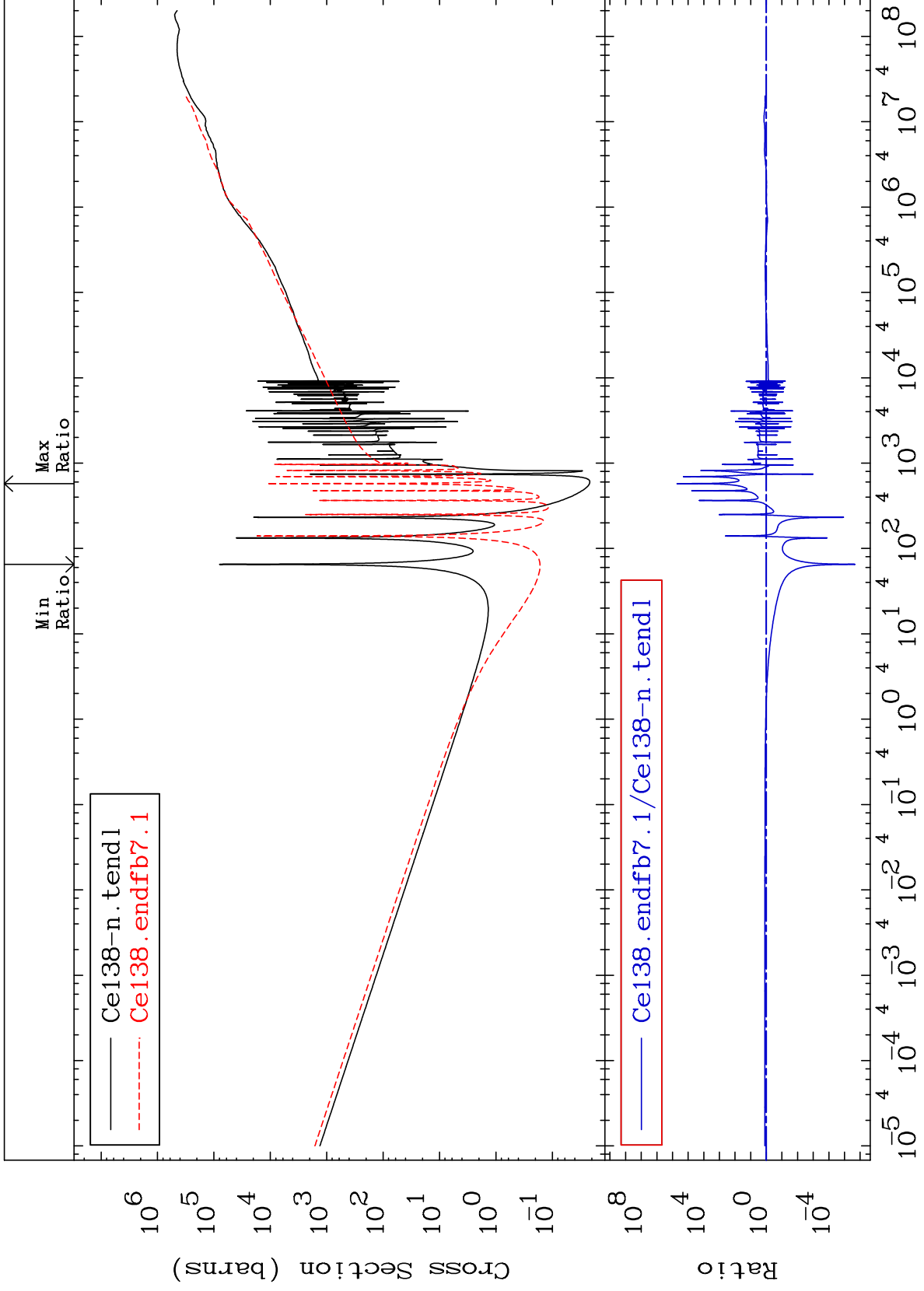




MAT 5831

Dpa total (eV-barns)
Cross Section

58-Ce-138
-100.0 To 9999. %



38

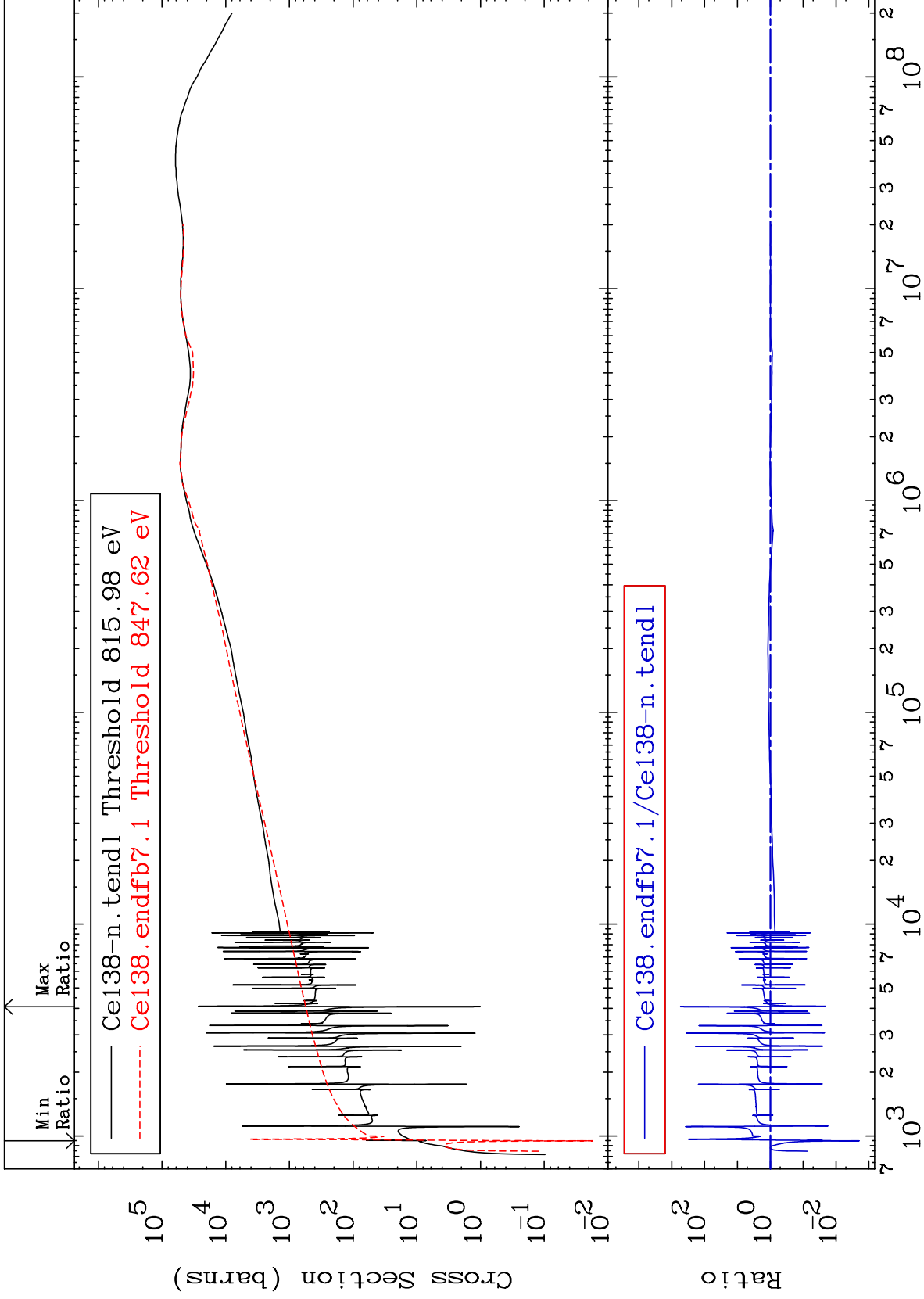
Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa elastic (mt2)
Cross Section

58-Ce-138
-99.81 To 9999. %



39

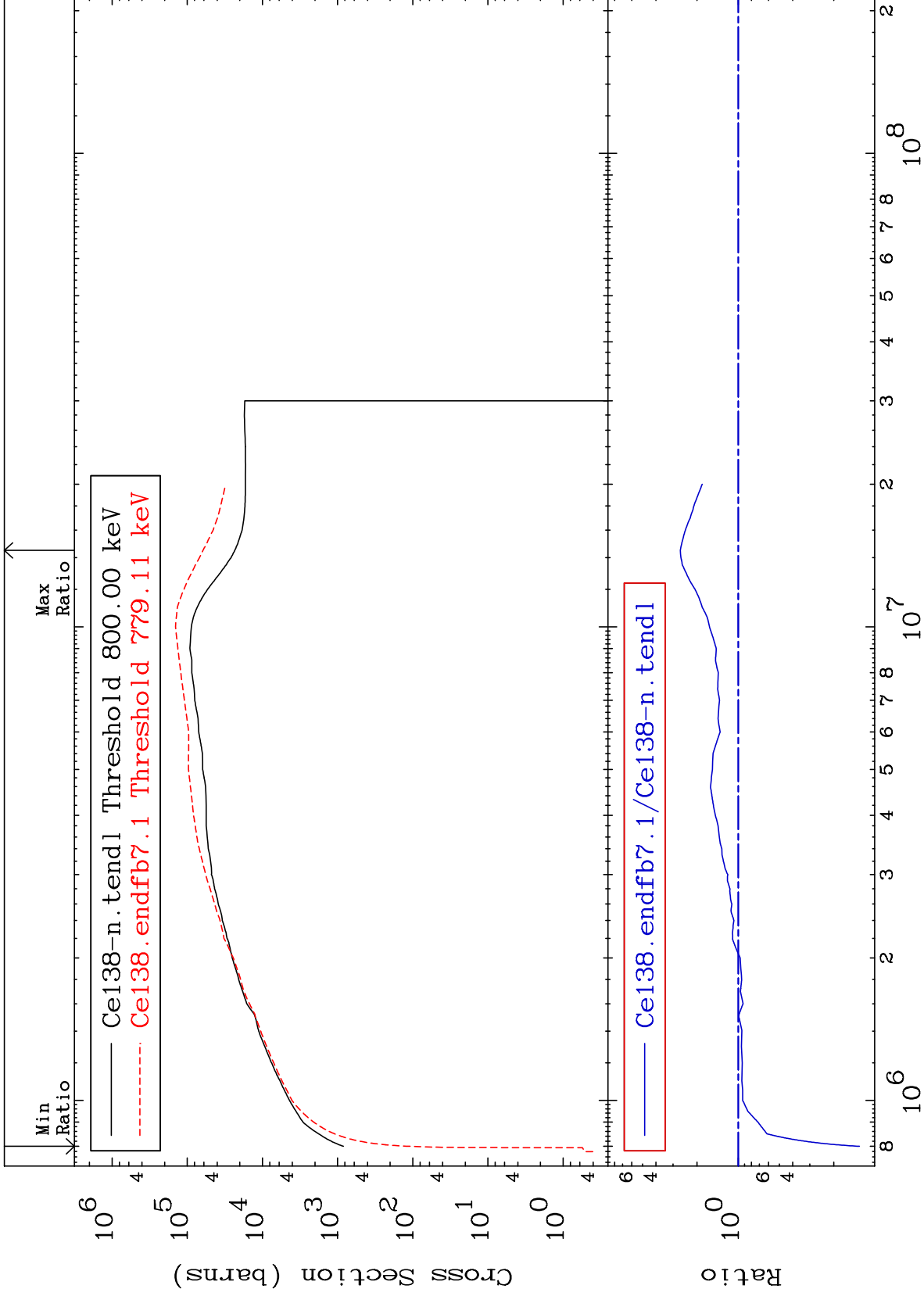
Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa inelastic (mt51-91)
Cross Section

58-Ce-138
-87.00 To 164.8 %



40

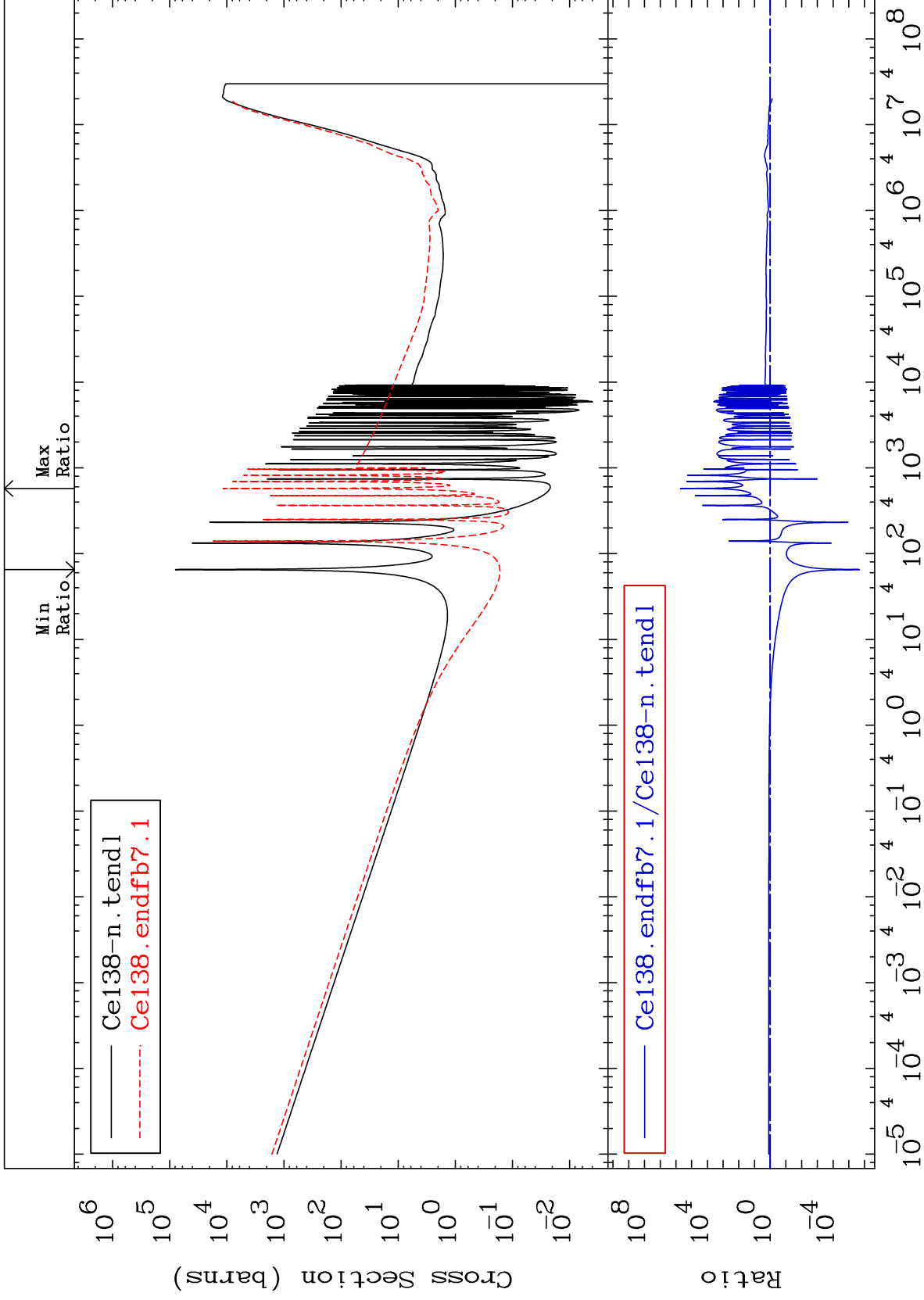
Incident Energy (eV)

58-Ce-138

MAT 5831

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-138
-100.0 To 9999. %



41

Incident Energy (eV)

58-Ce-138