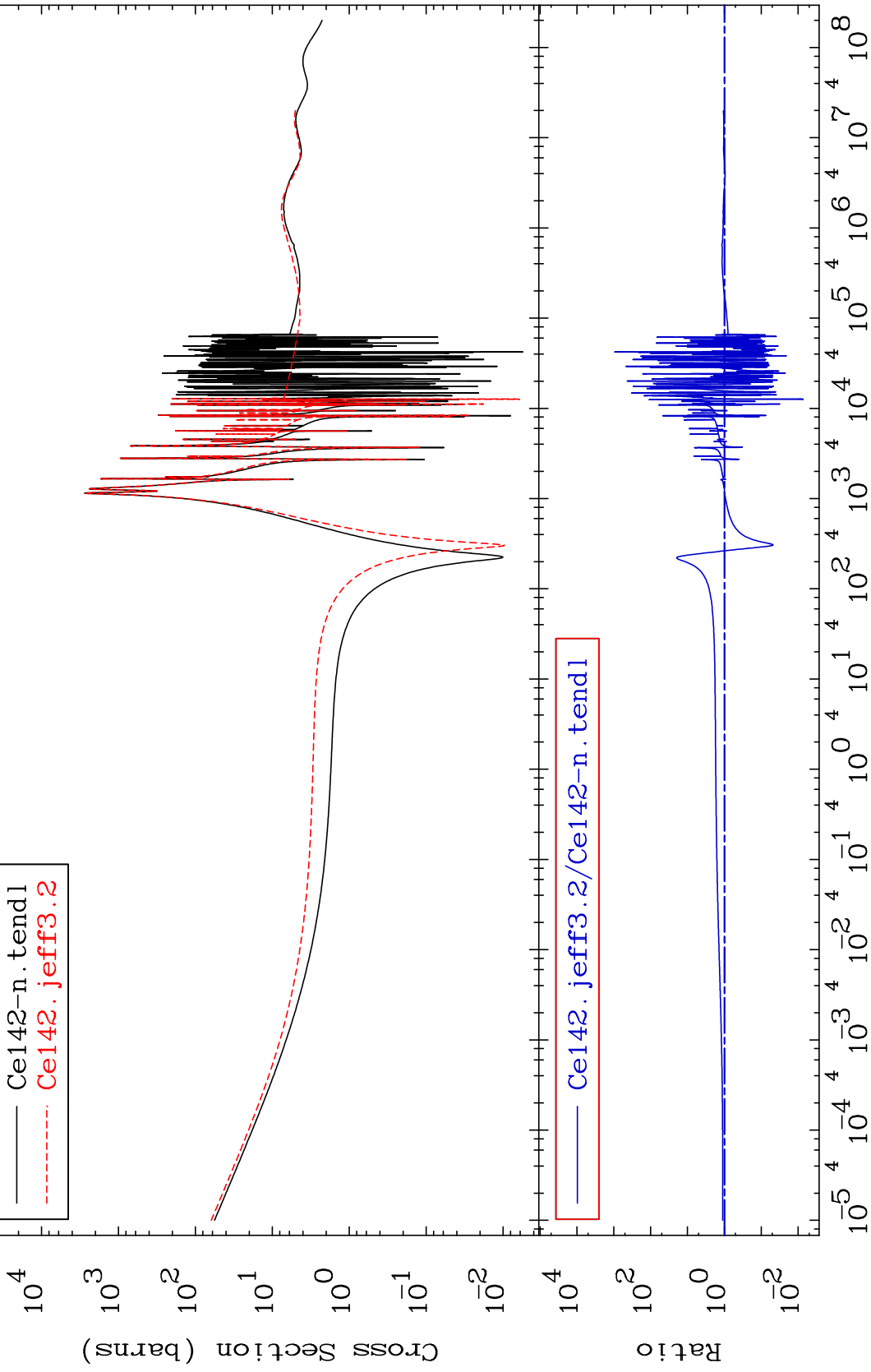


MAT 5843

Total
Cross Section

58-Ce-142
-99.27 To 9999. %

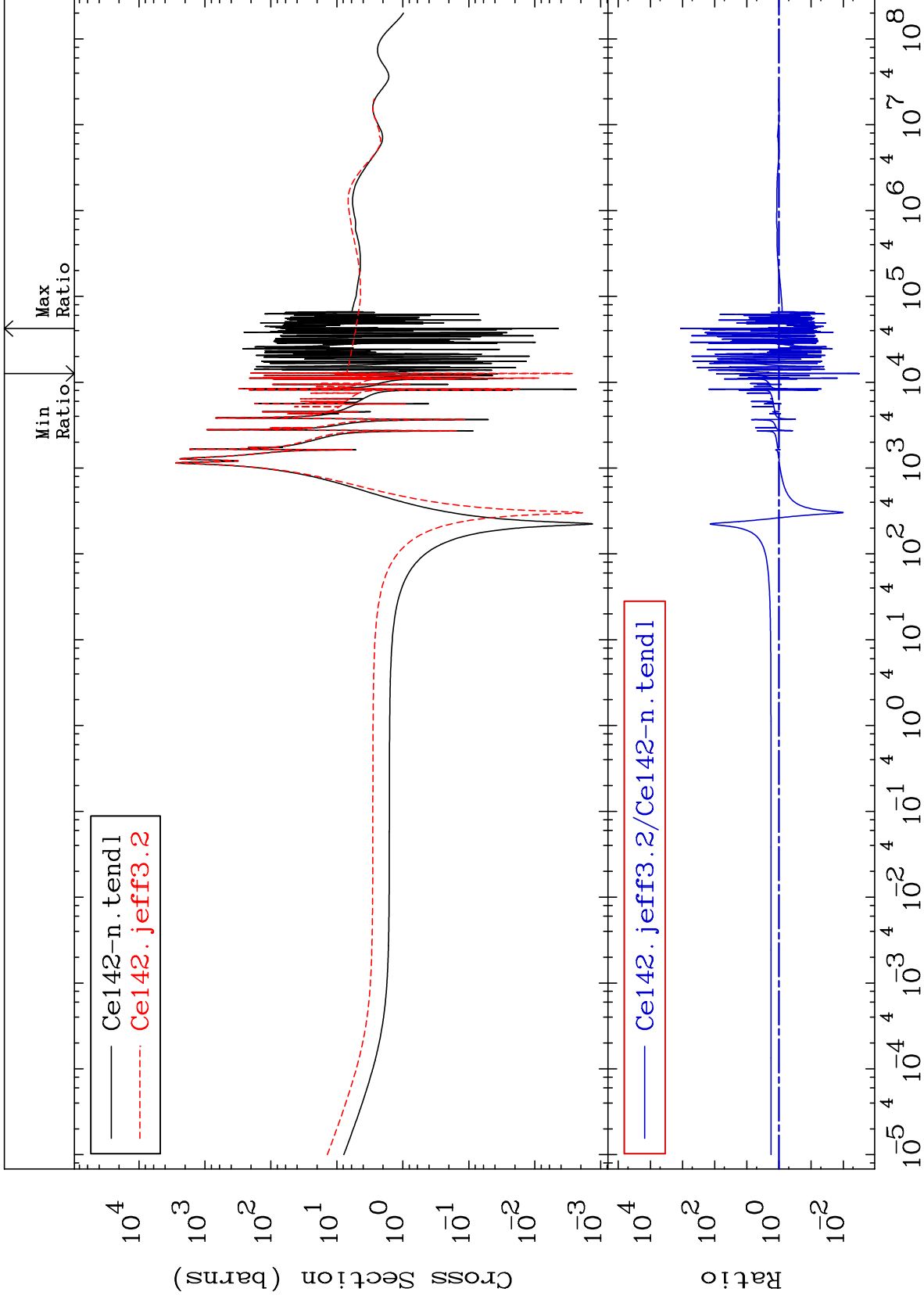


58-Ce-142

MAT 5843

Elastic
Cross Section

58-Ce-142
-99.69 To 9999. %



Incident Energy (eV)

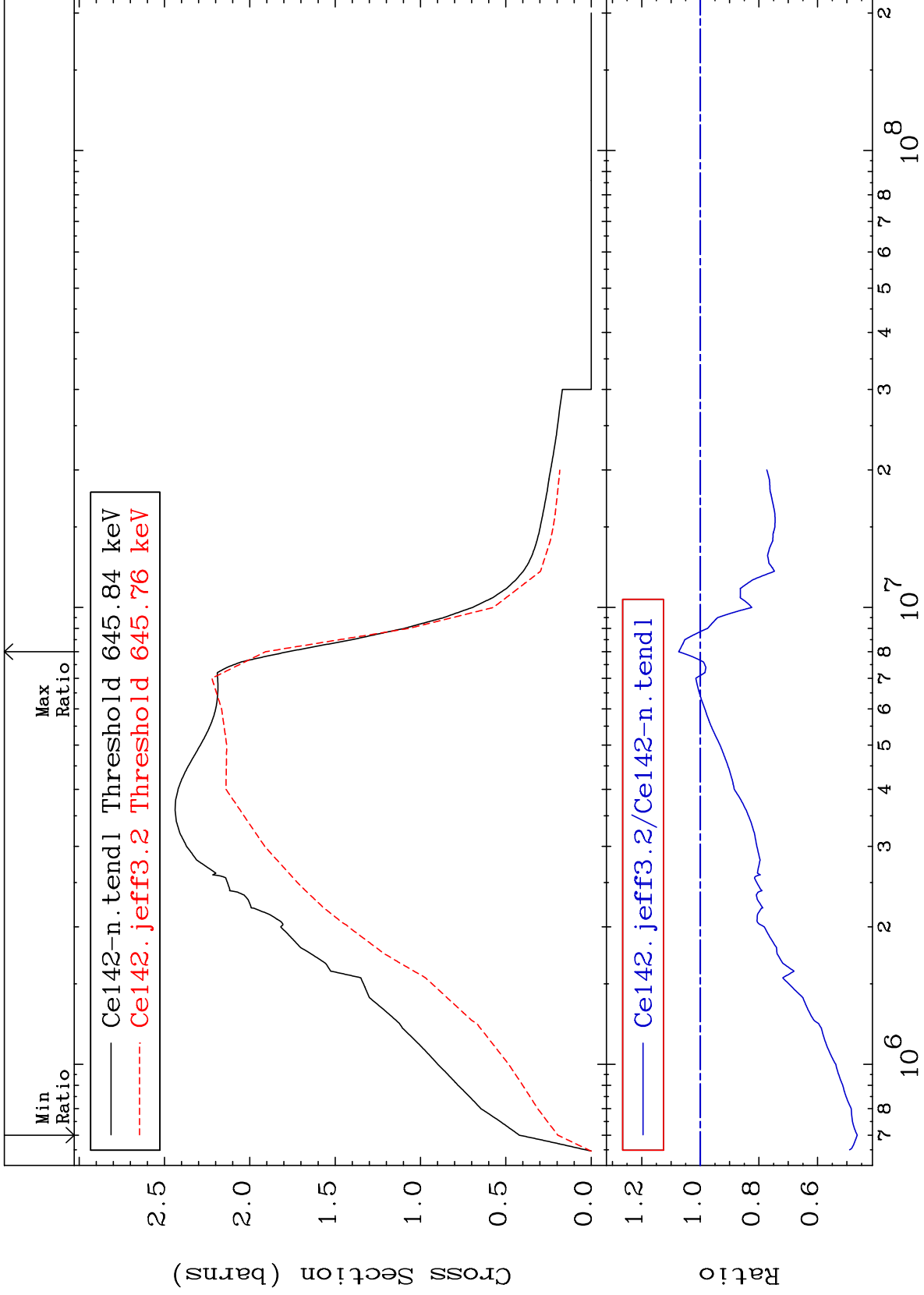
58-Ce-142

2

MAT 5843

Inelastic
Cross Section

58-Ce-142
-53.54 To 7.397 %



3

Incident Energy (eV)

58-Ce-142

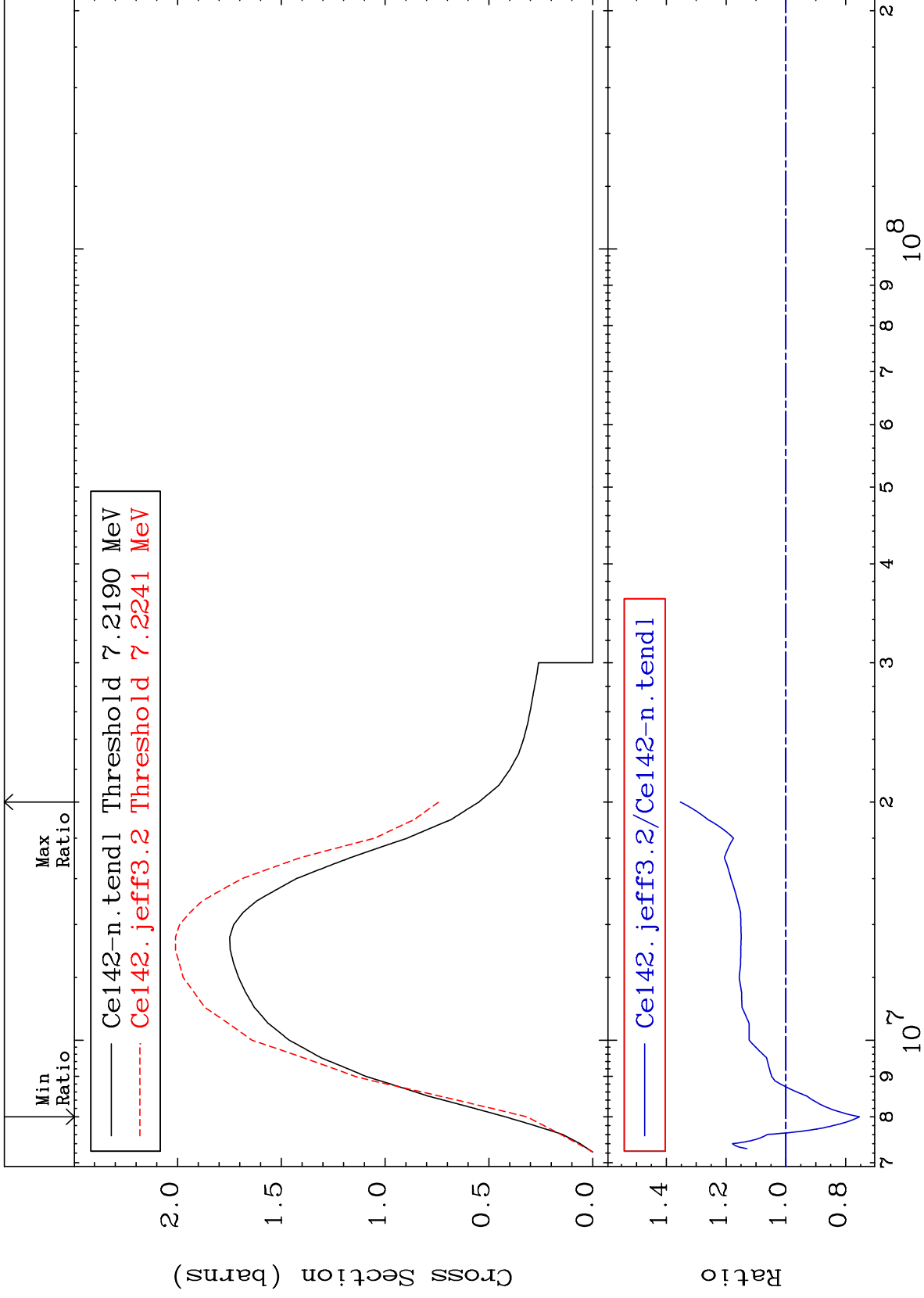
MAT 5843

(n,2n)

58-Ce-142

Cross Section

-24.60 To 35.30 %



4

Incident Energy (eV)

58-Ce-142

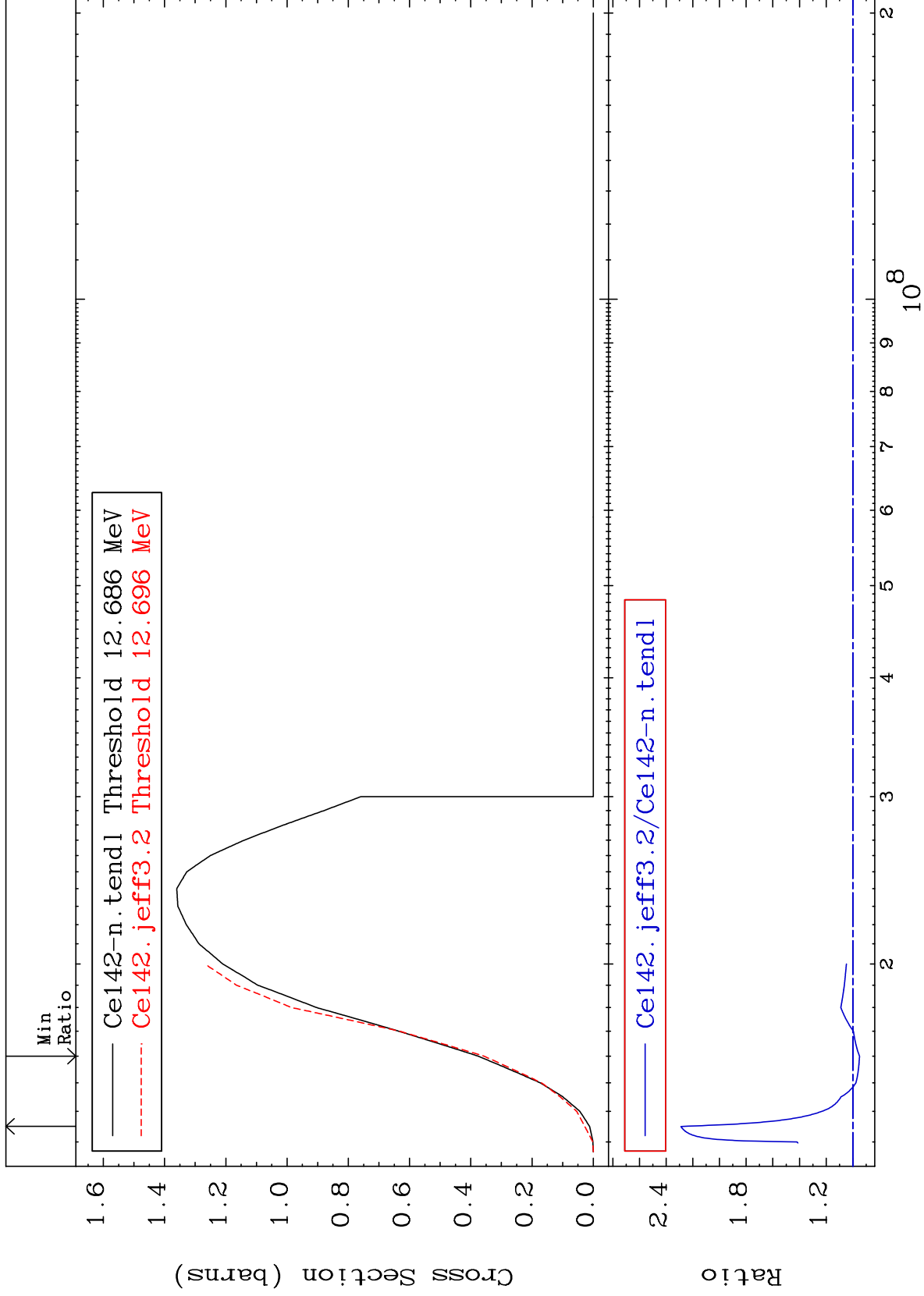
MAT 5843

(n,3n)

58-Ce-142

Cross Section

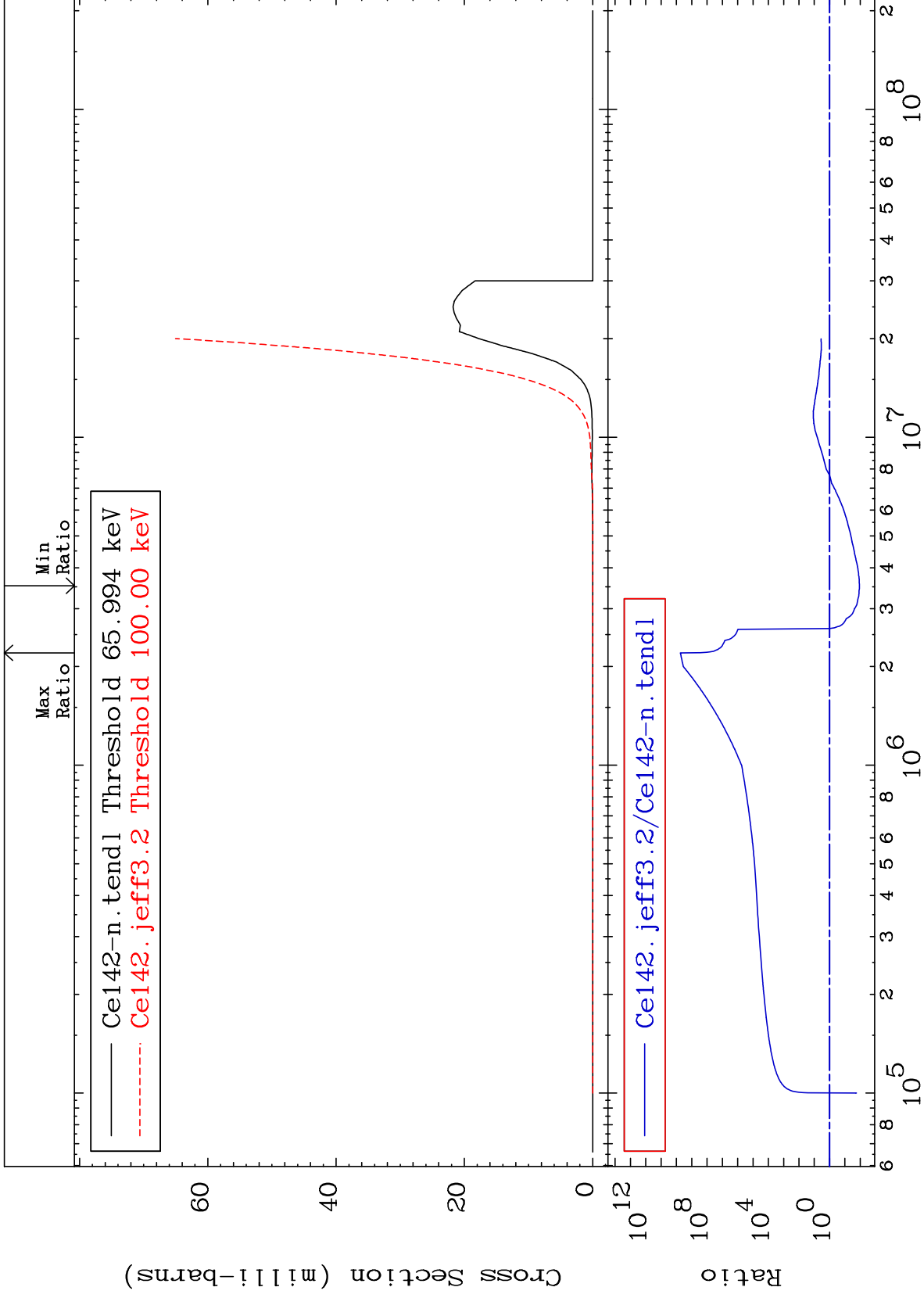
-5.034 To 129.0 %



MAT 5843

58-Ce-142
-98.87 To 9999. %

(n,n') α
Cross Section



6

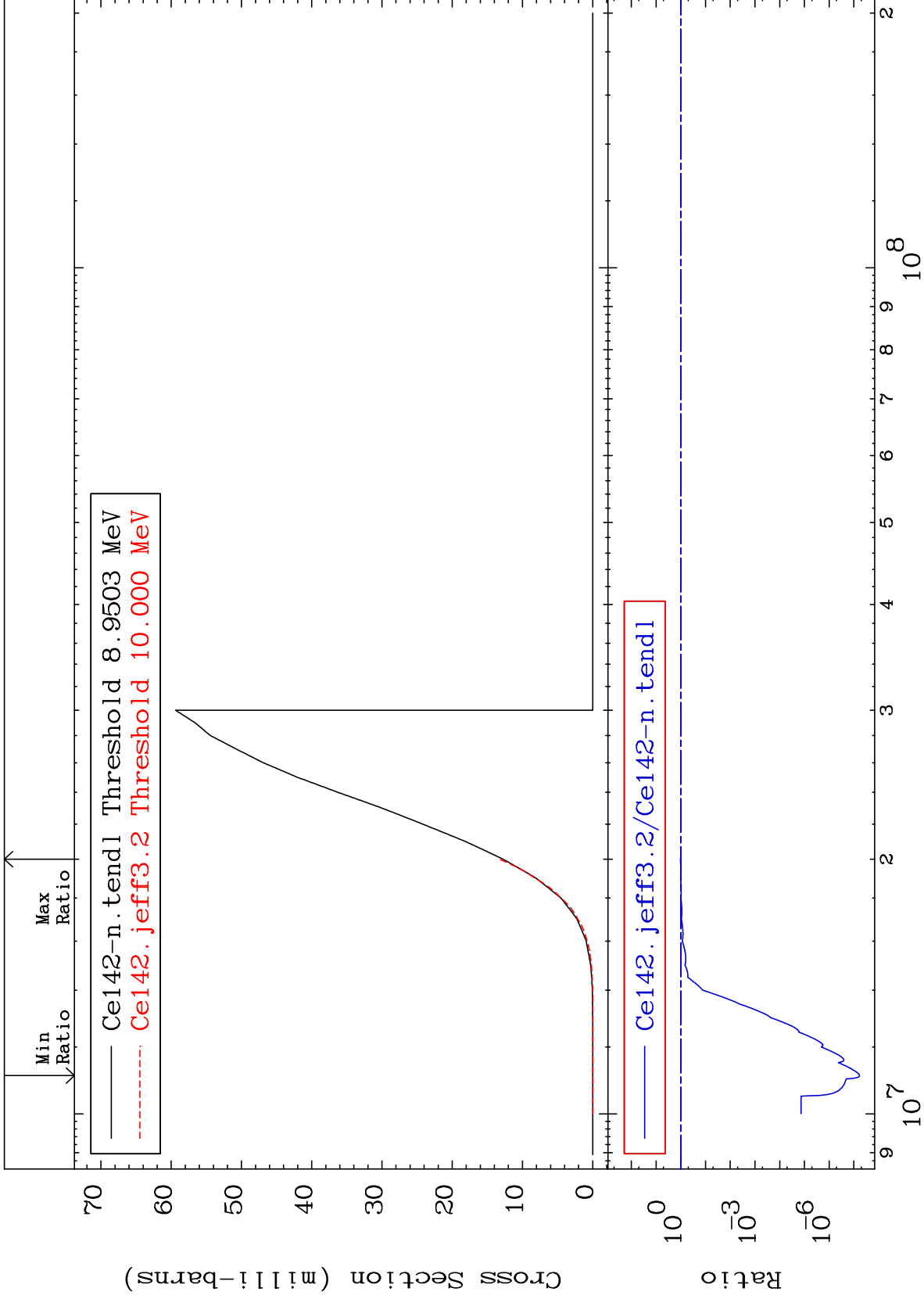
Incident Energy (eV)

58-Ce-142

MAT 5843

(n,n') p
Cross Section

58-Ce-142
-100.0 To 4.214 %



7

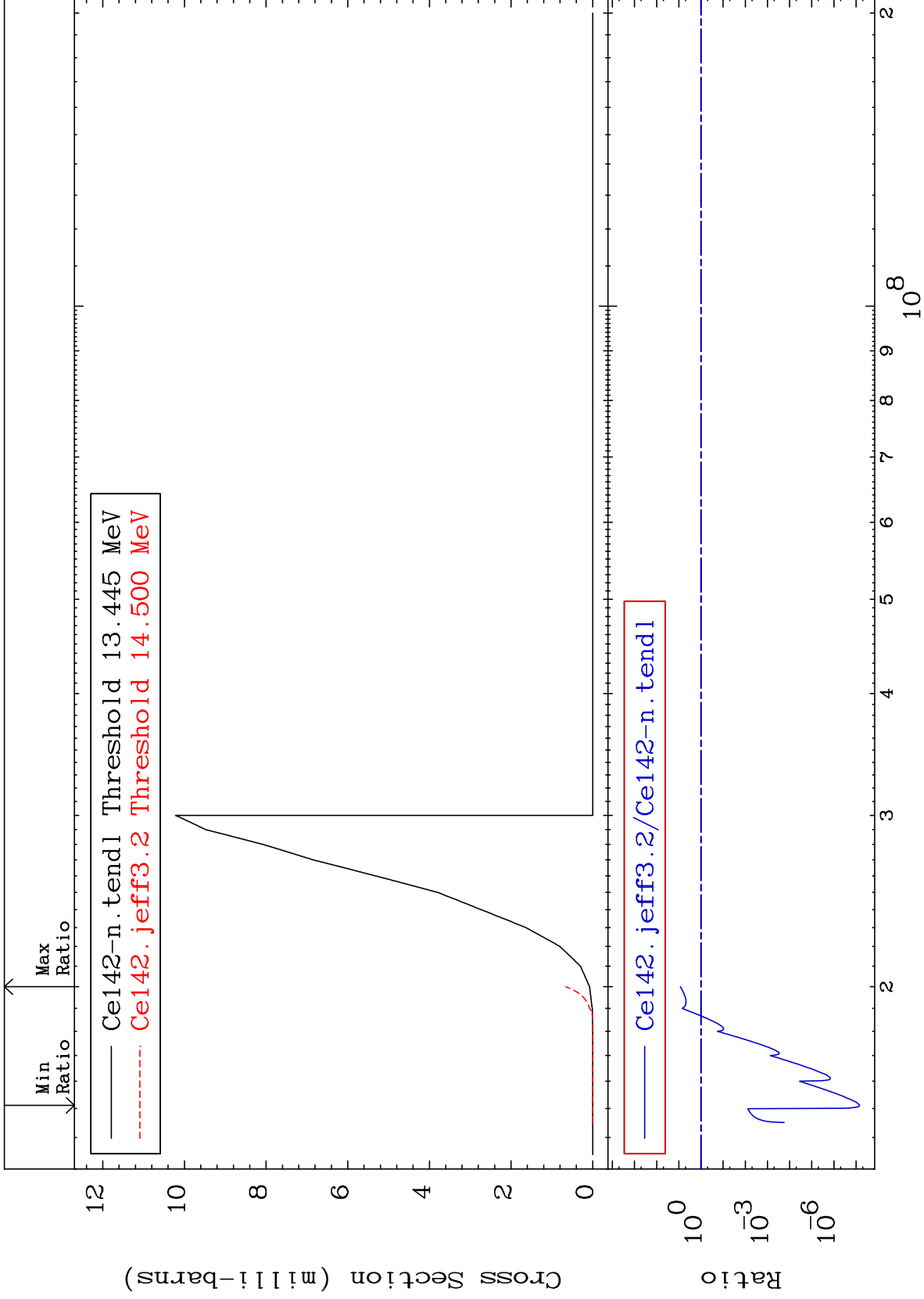
Incident Energy (eV)

58-Ce-142

MAT 5843

(n, n') d
Cross Section

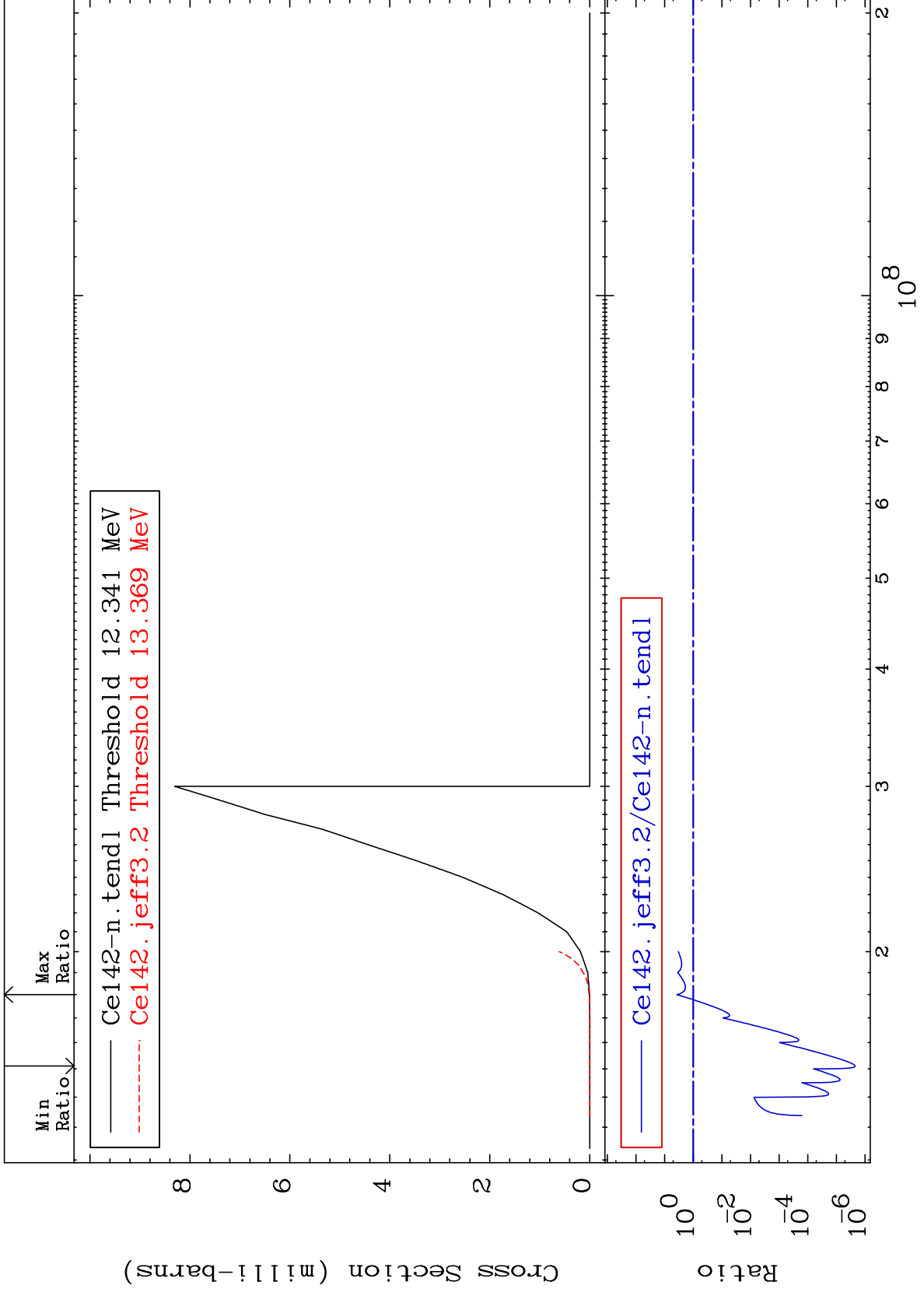
58-Ce-142
-100.0 To 753.4 %



MAT 5843

(n,n') t
Cross Section

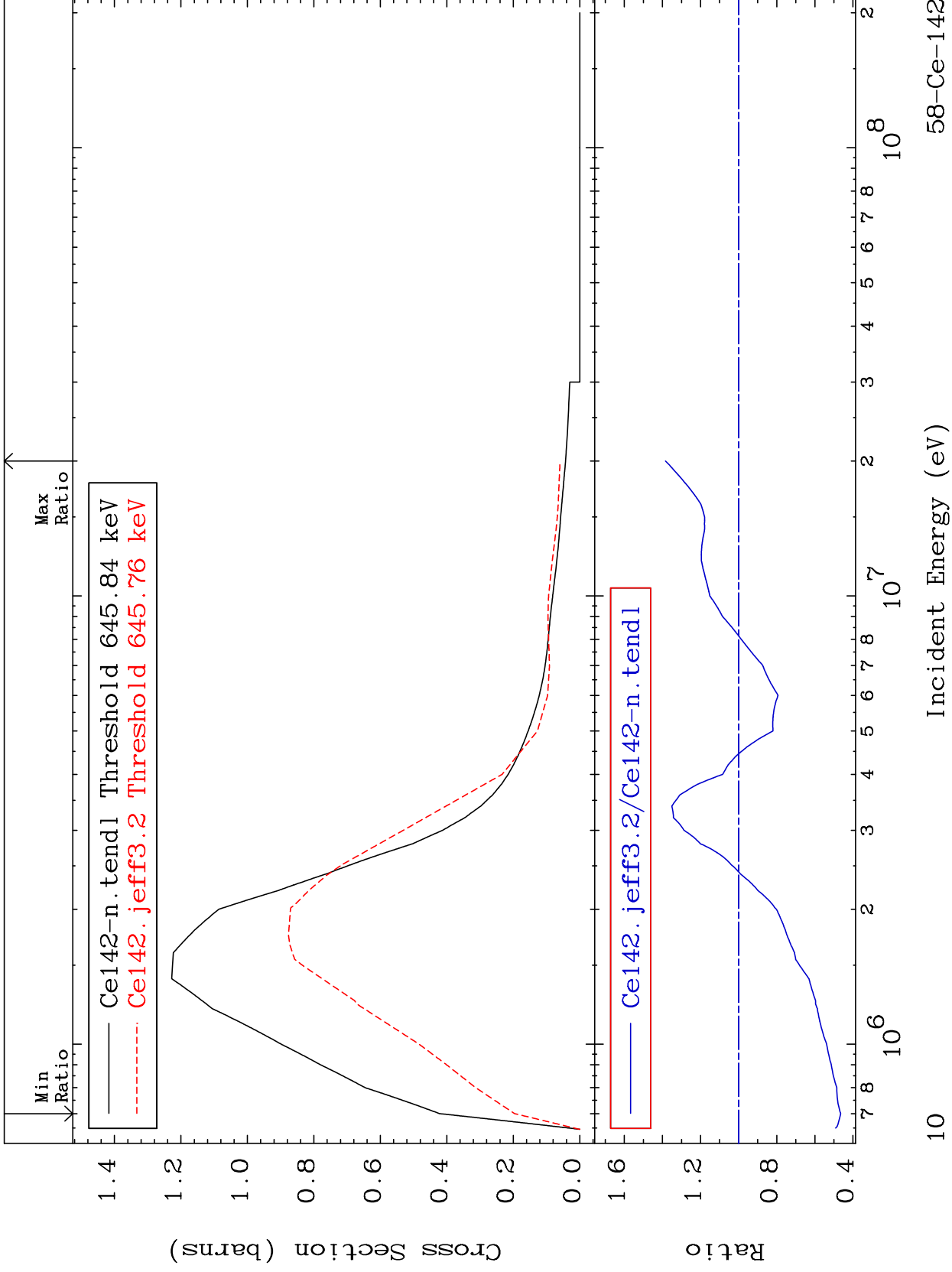
58-Ce-142
-100.0 To 269.4 %



MAT 5843

641.3 keV (n,n') Level
Cross Section

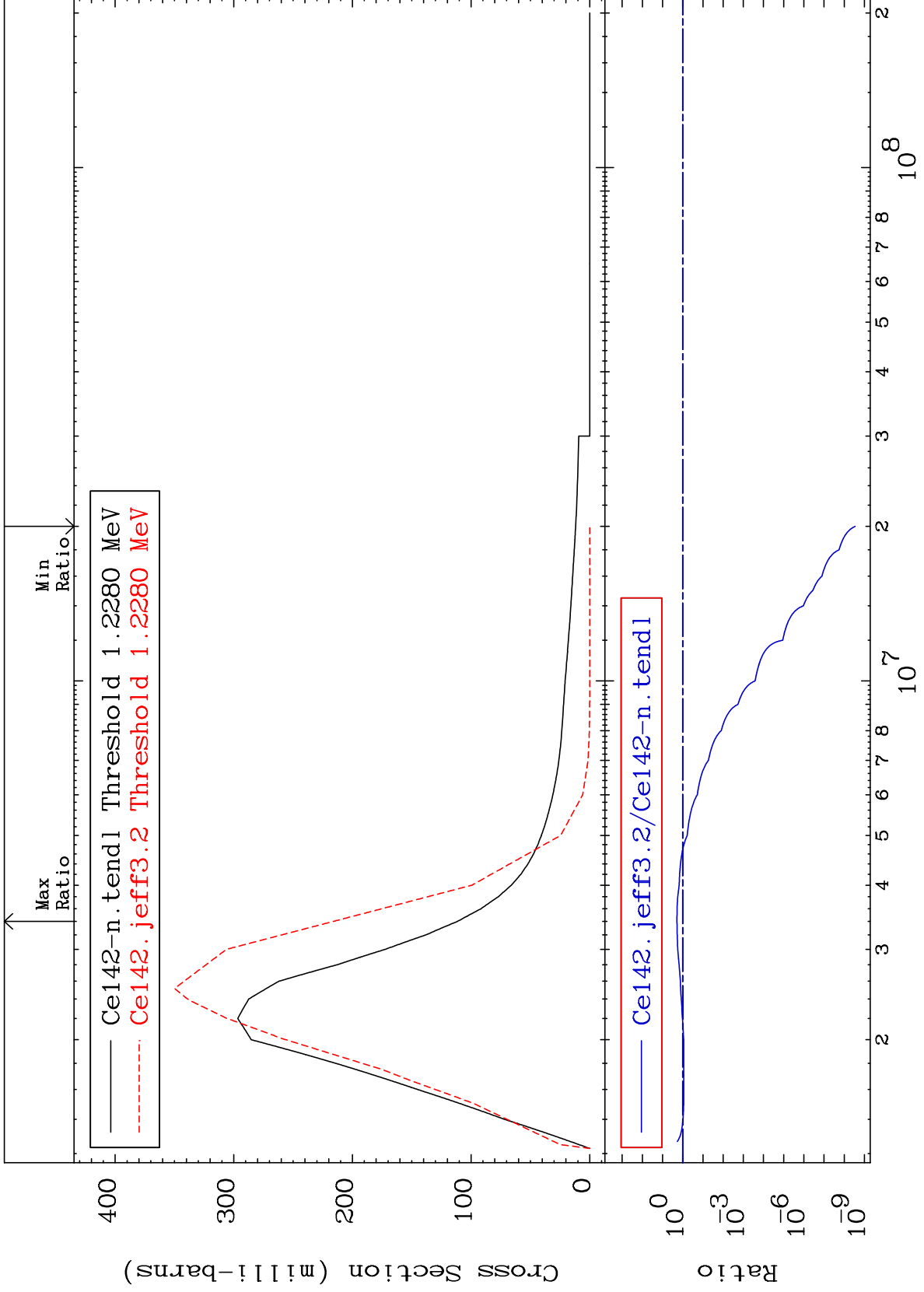
58-Ce-142
-53.54 To 38.40 %



MAT 5843

1.219 MeV (n,n') Level
Cross Section

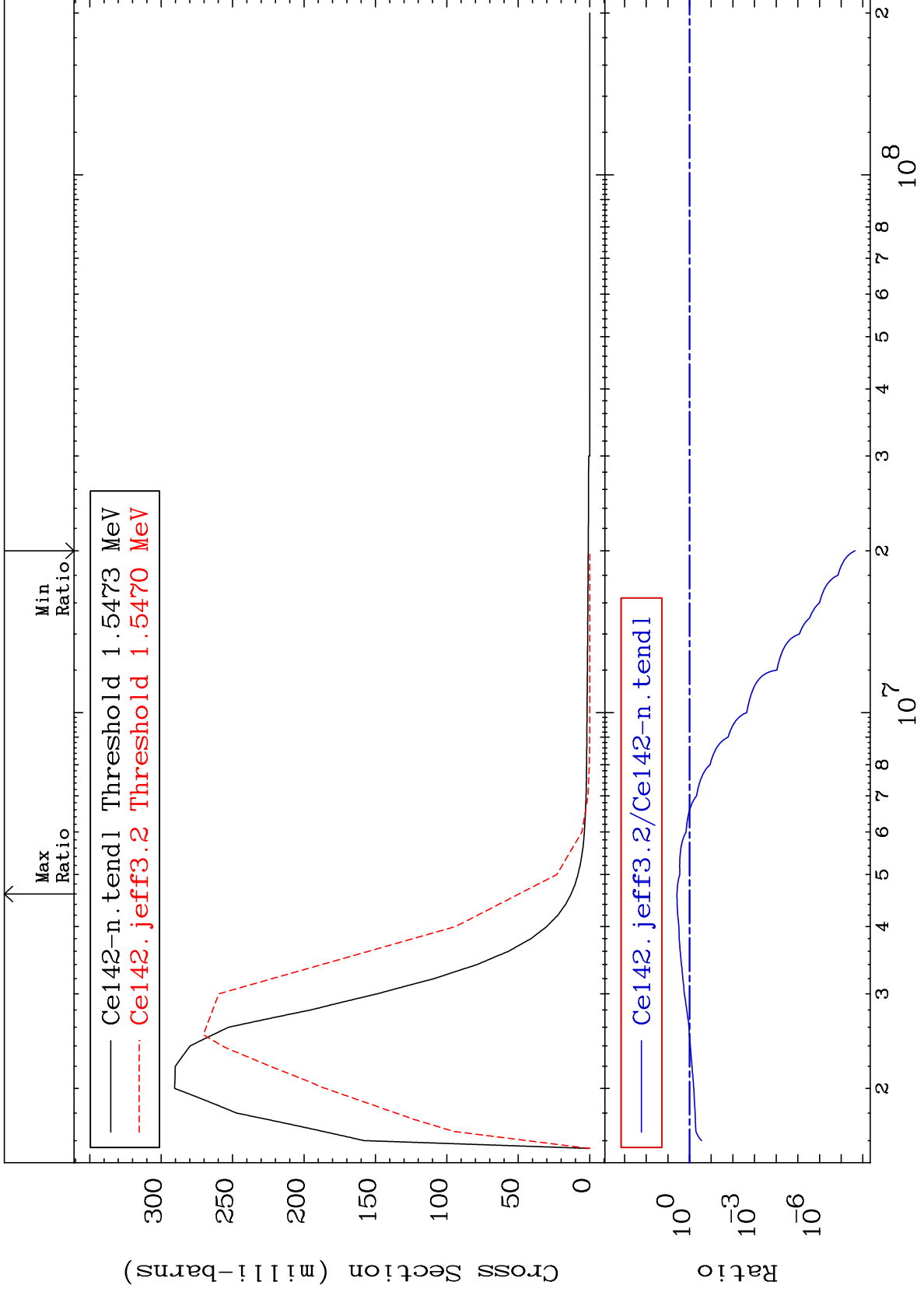
58-Ce-142
-100.0 To 93.89 %



MAT 5843

1.536 MeV (n,n') Level
Cross Section

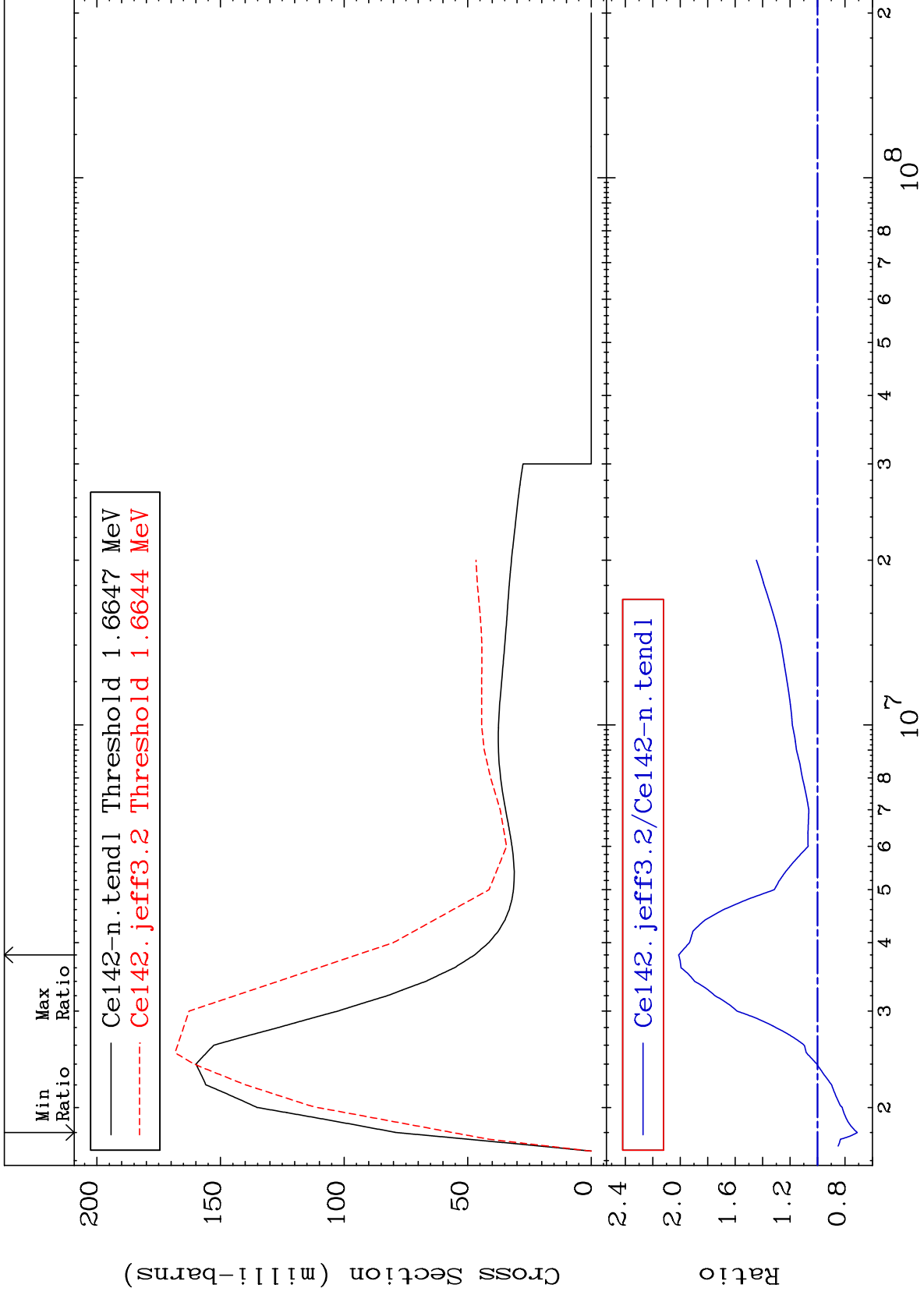
58-Ce-142
-100.0 To 282.5 %



MAT 5843

1.653 MeV (n,n') Level
Cross Section

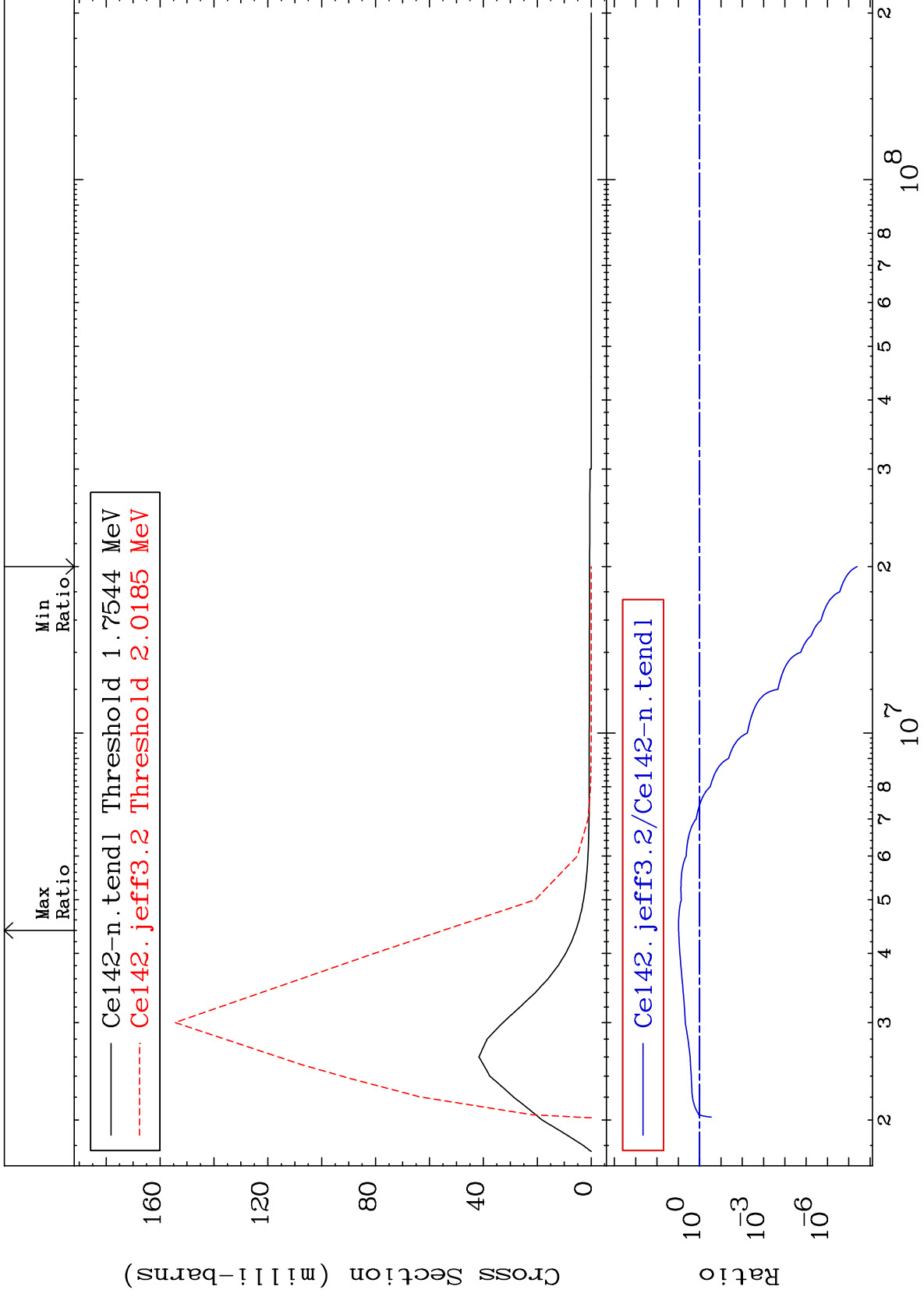
58-Ce-142
-28.99 To 101.1 %



MAT 5843

1.742 MeV (n,n') Level
Cross Section

58-Ce-142
-100.0 To 867.5 %



14

Incident Energy (eV)

58-Ce-142

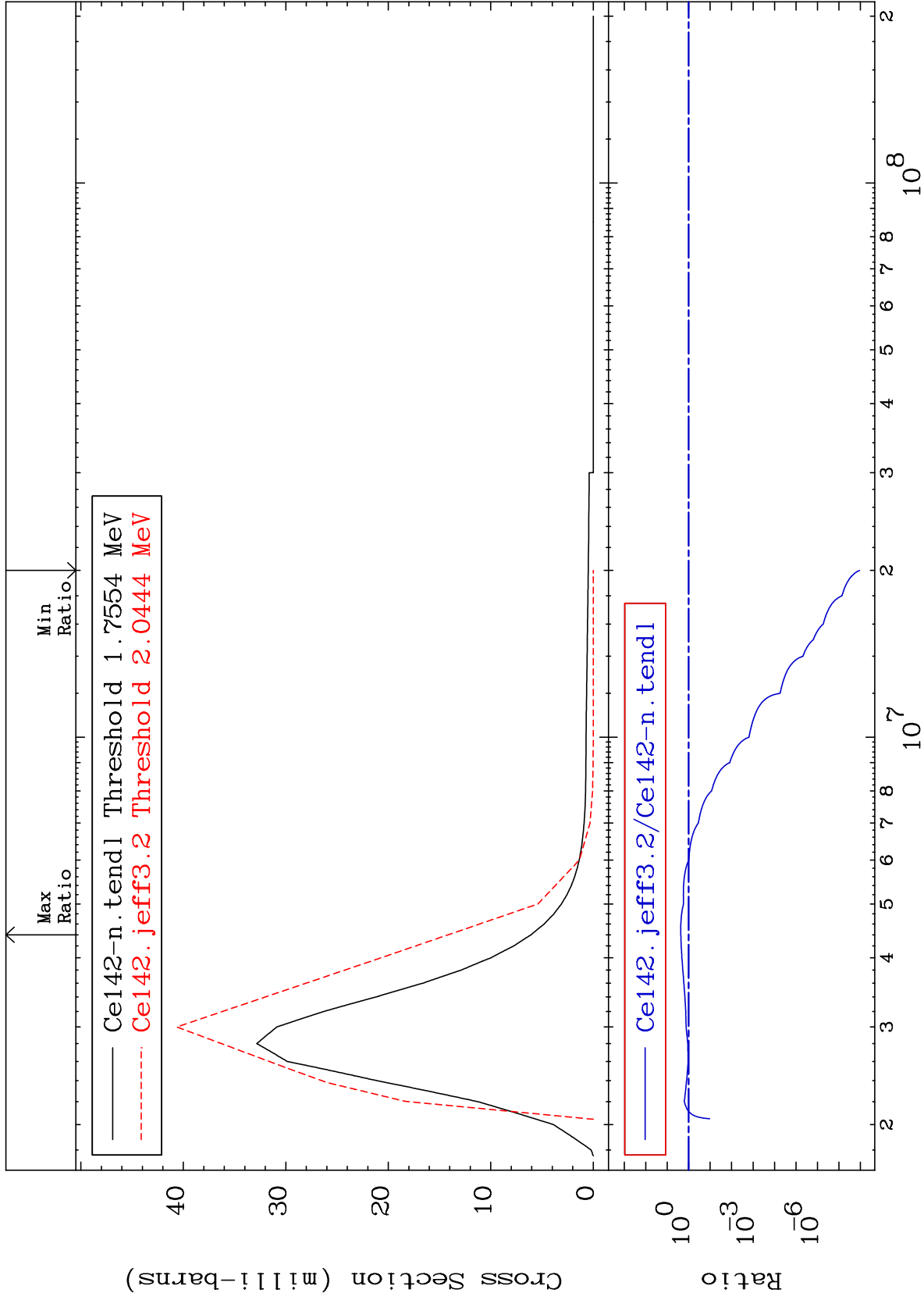
MAT 5843

1.743 MeV (n,n') Level

58-Ce-142

-100.0 To 133.2 %

Cross Section



15

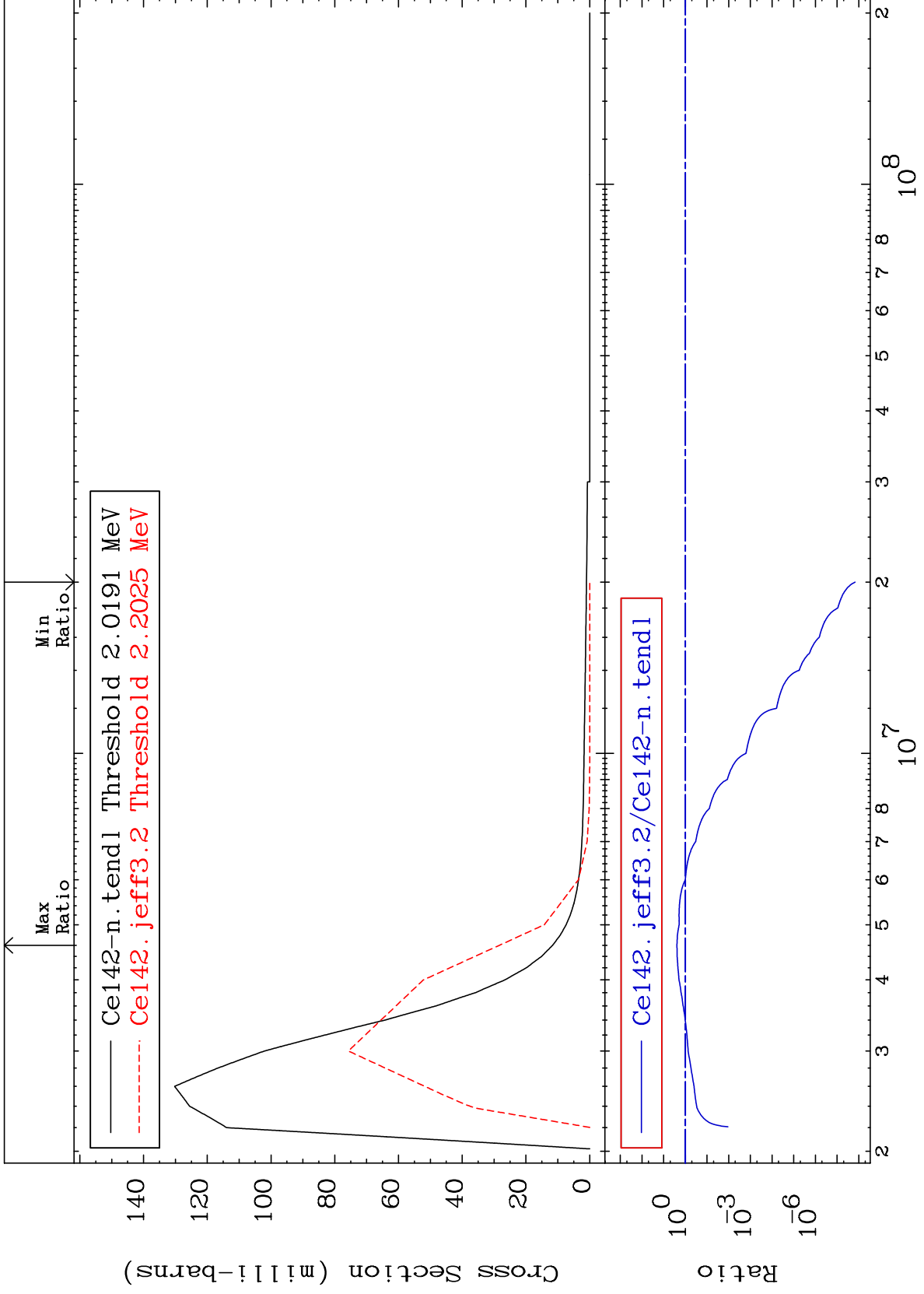
Incident Energy (eV)

58-Ce-142

MAT 5843

2.005 MeV (n,n') Level
Cross Section

58-Ce-142
-100.0 To 144.2 %



16

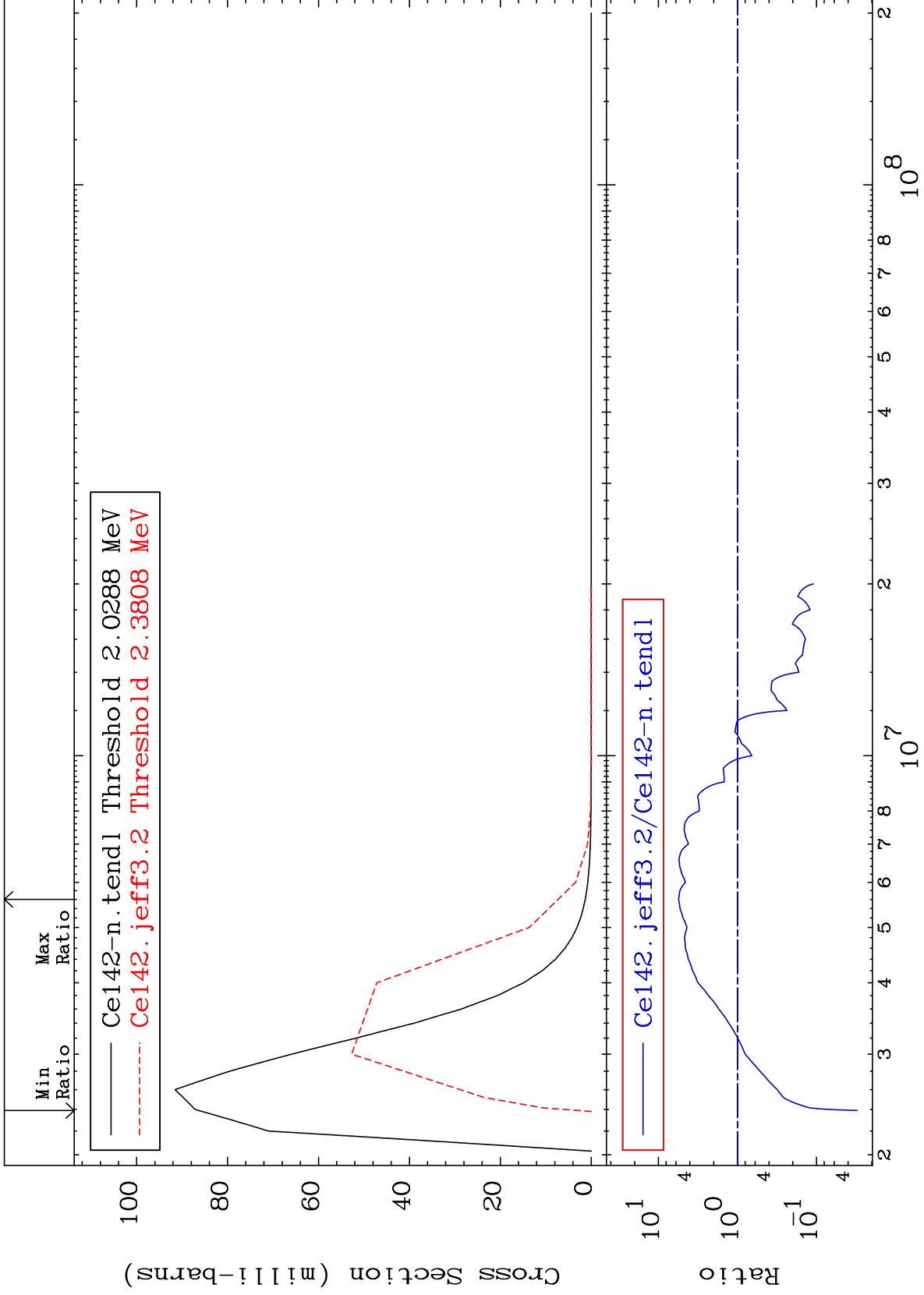
Incident Energy (eV)

58-Ce-142

MAT 5843

2.015 MeV (n,n') Level
Cross Section

58-Ce-142
-96.94 To 455.2 %



17

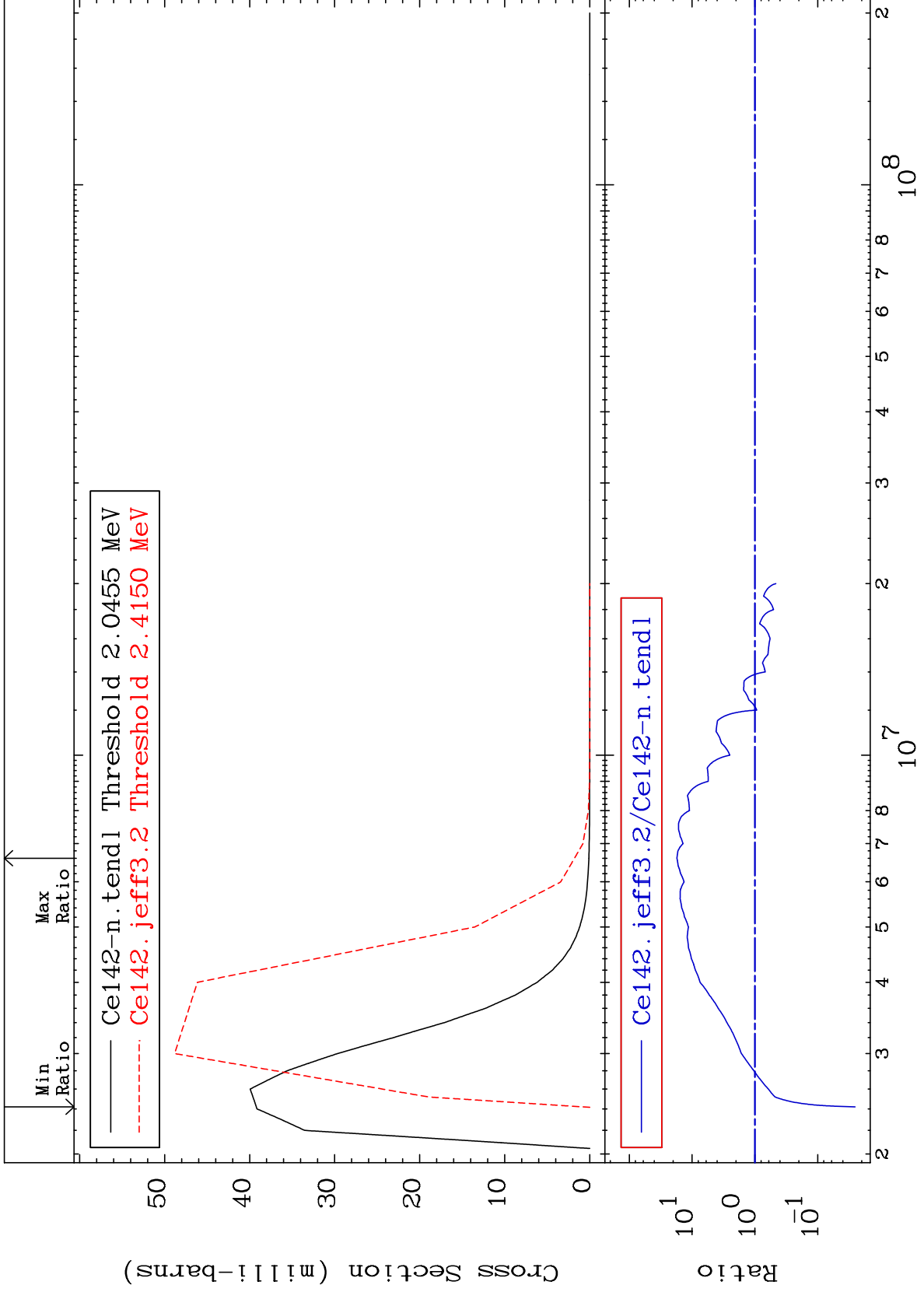
Incident Energy (eV)

58-Ce-142

MAT 5843

2.031 MeV (n,n') Level
Cross Section

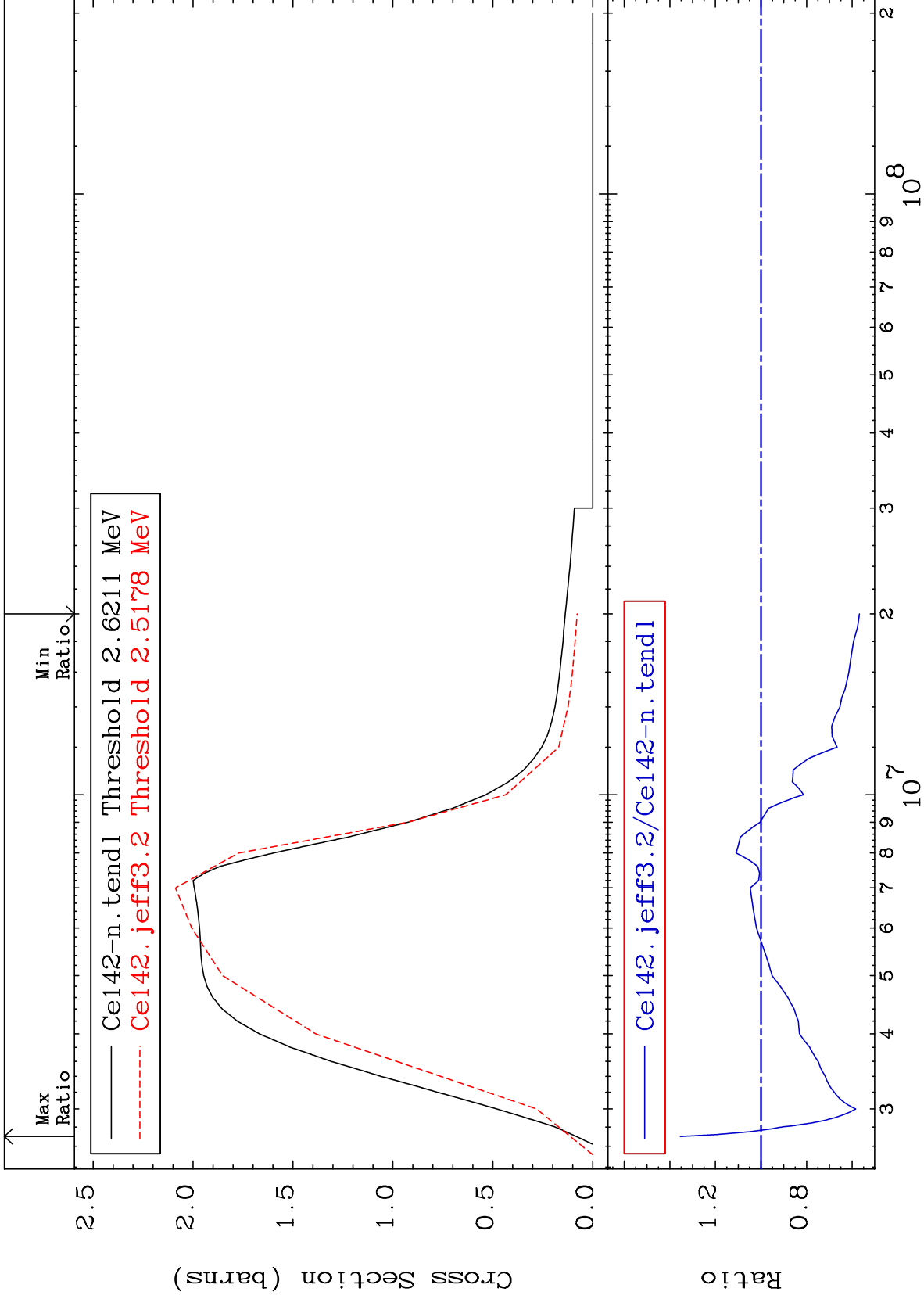
58-Ce-142
-97.46 To 1644. %



MAT 5843

(n, n') Continuum
Cross Section

58-Ce-142
-43.18 To 35.37 %



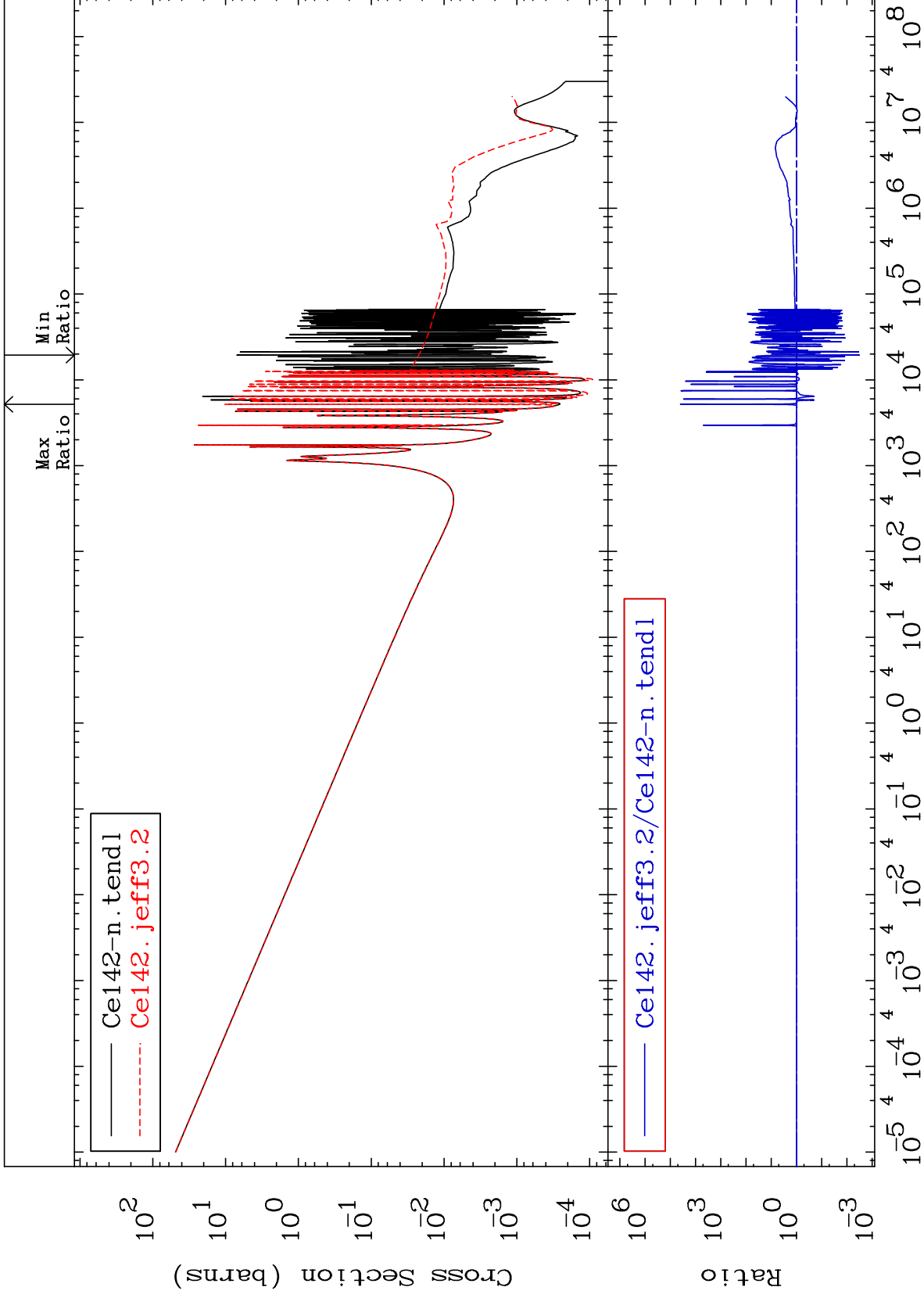
MAT 5843

(n, γ)

58-Ce-142

Cross Section

-99.68 To 9999. %



— Ce142-n.tendl
- - - Ce142.jeff3.2

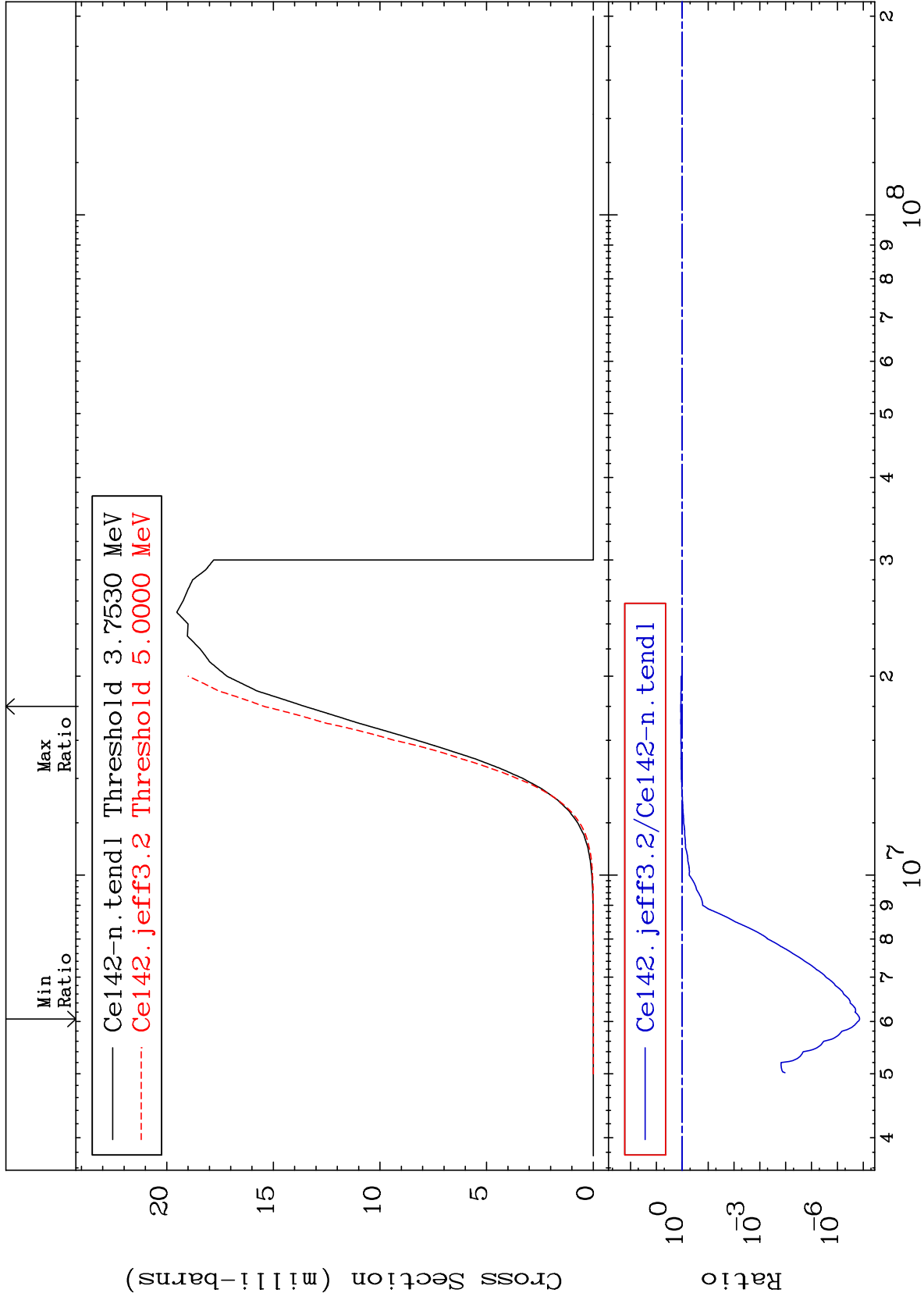
— Ce142.jeff3.2/Ce142-n.tendl

MAT 5843

58-Ce-142

-100.0 To 14.17 %

(n,p)
Cross Section



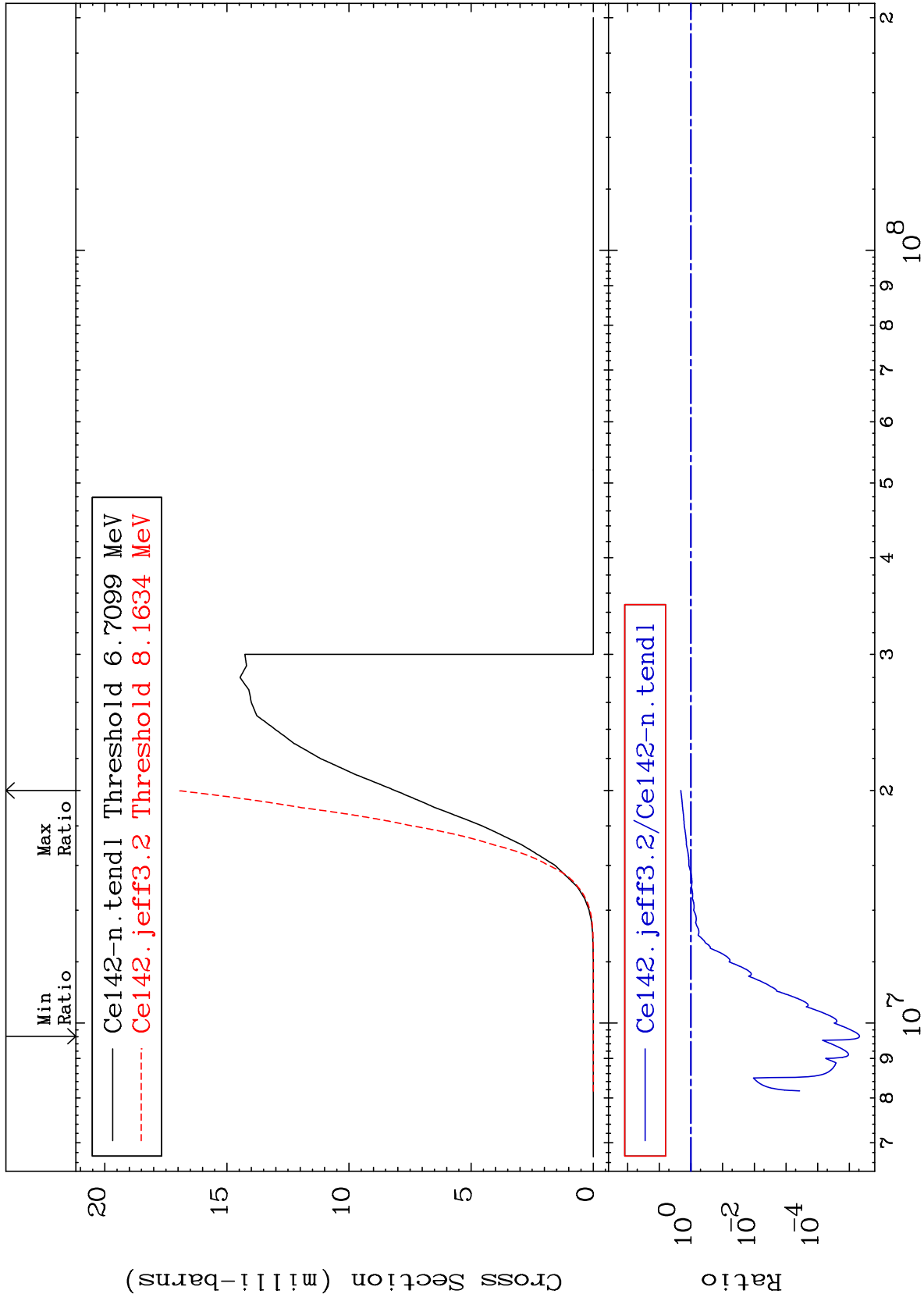
MAT 5843

(n, d)

58-Ce-142

Cross Section

-100.0 To 110.1 %



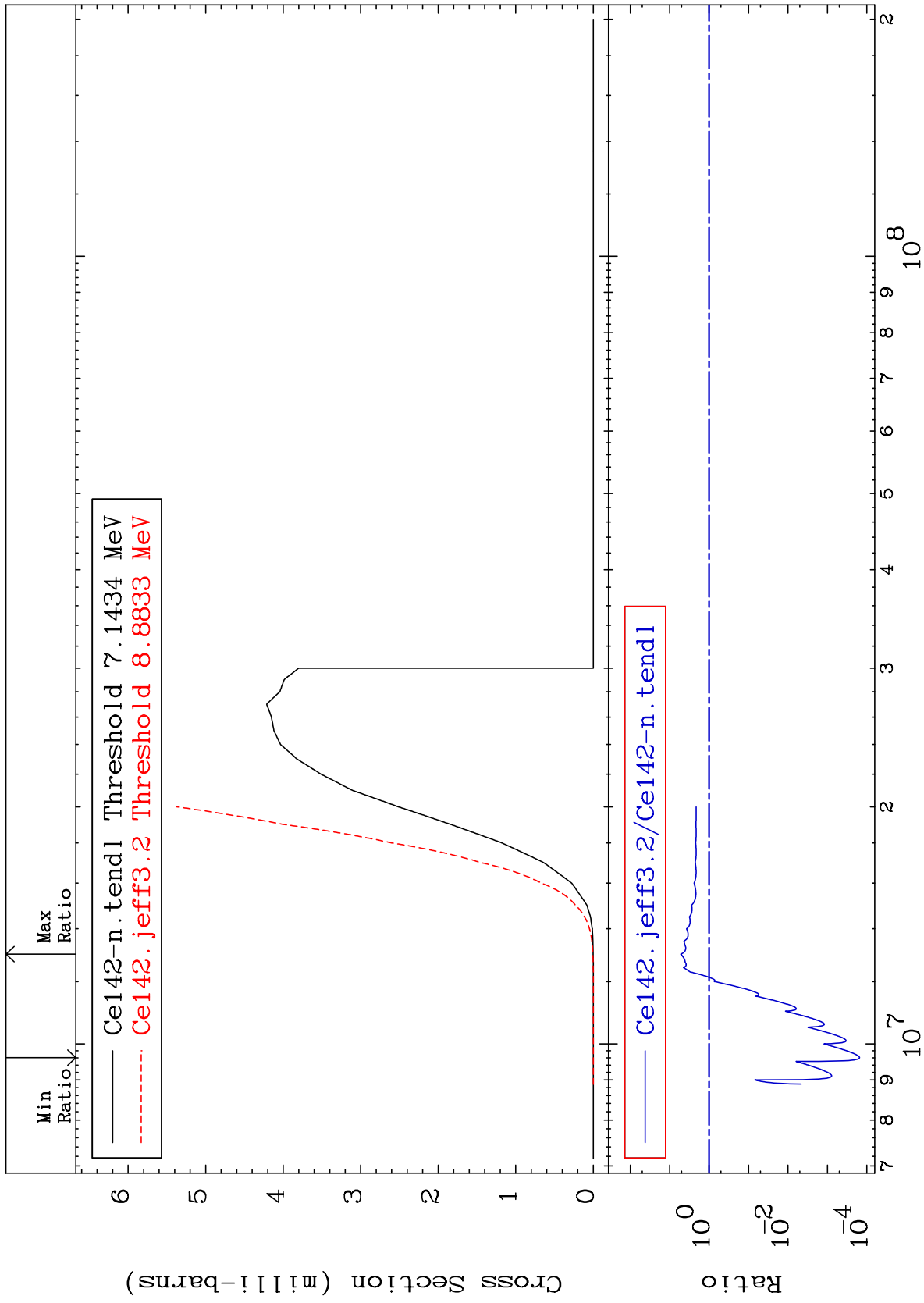
MAT 5843

(n, t)

58-Ce-142

Cross Section

-99.98 To 424.2 %



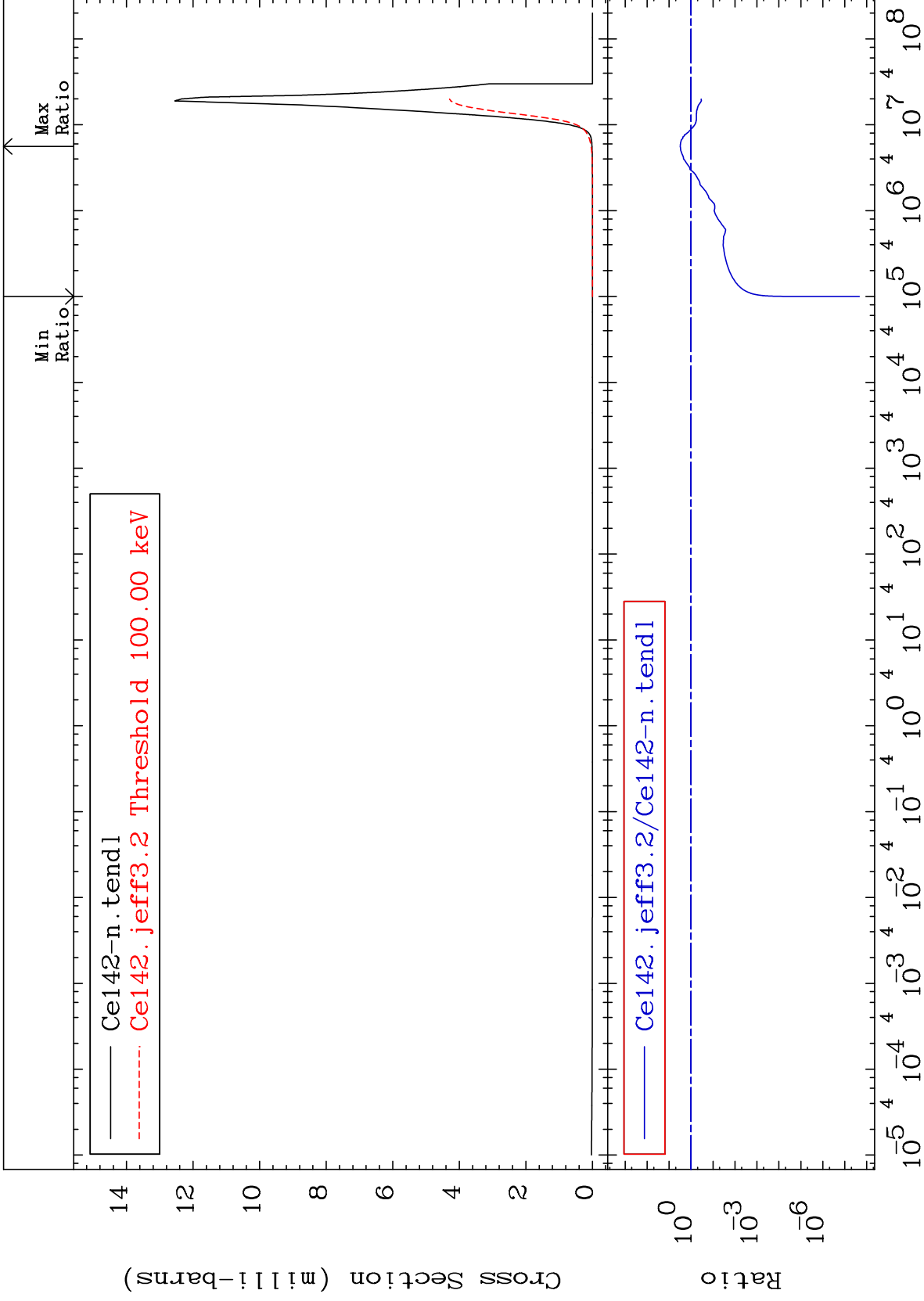
MAT 5843

(n, α)

58-Ce-142

Cross Section

-100.0 To 213.2 %



24

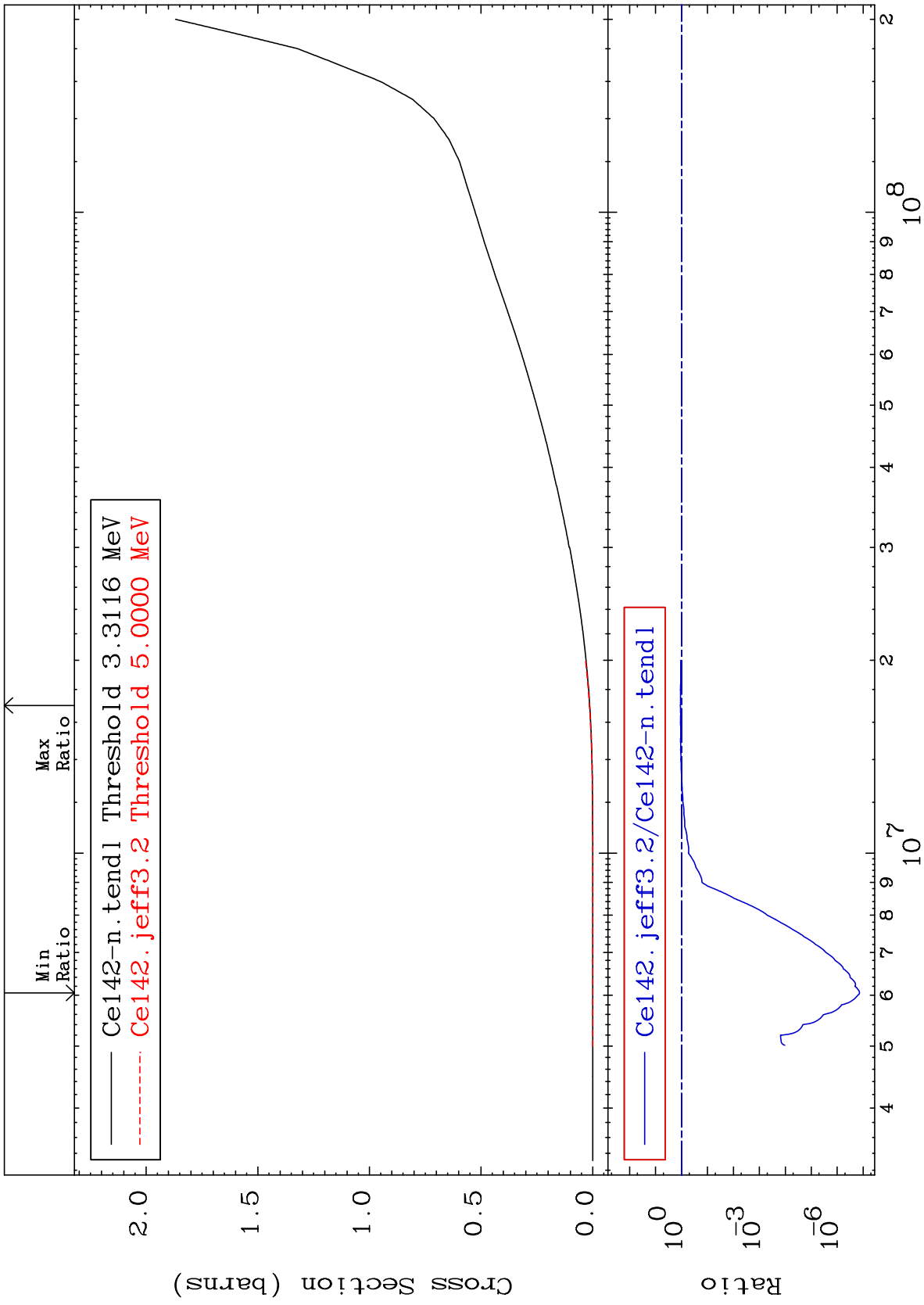
Incident Energy (eV)

58-Ce-142

MAT 5843

Hydrogen Production
Cross Section

58-Ce-142
-100.0 To 10.84 %



25

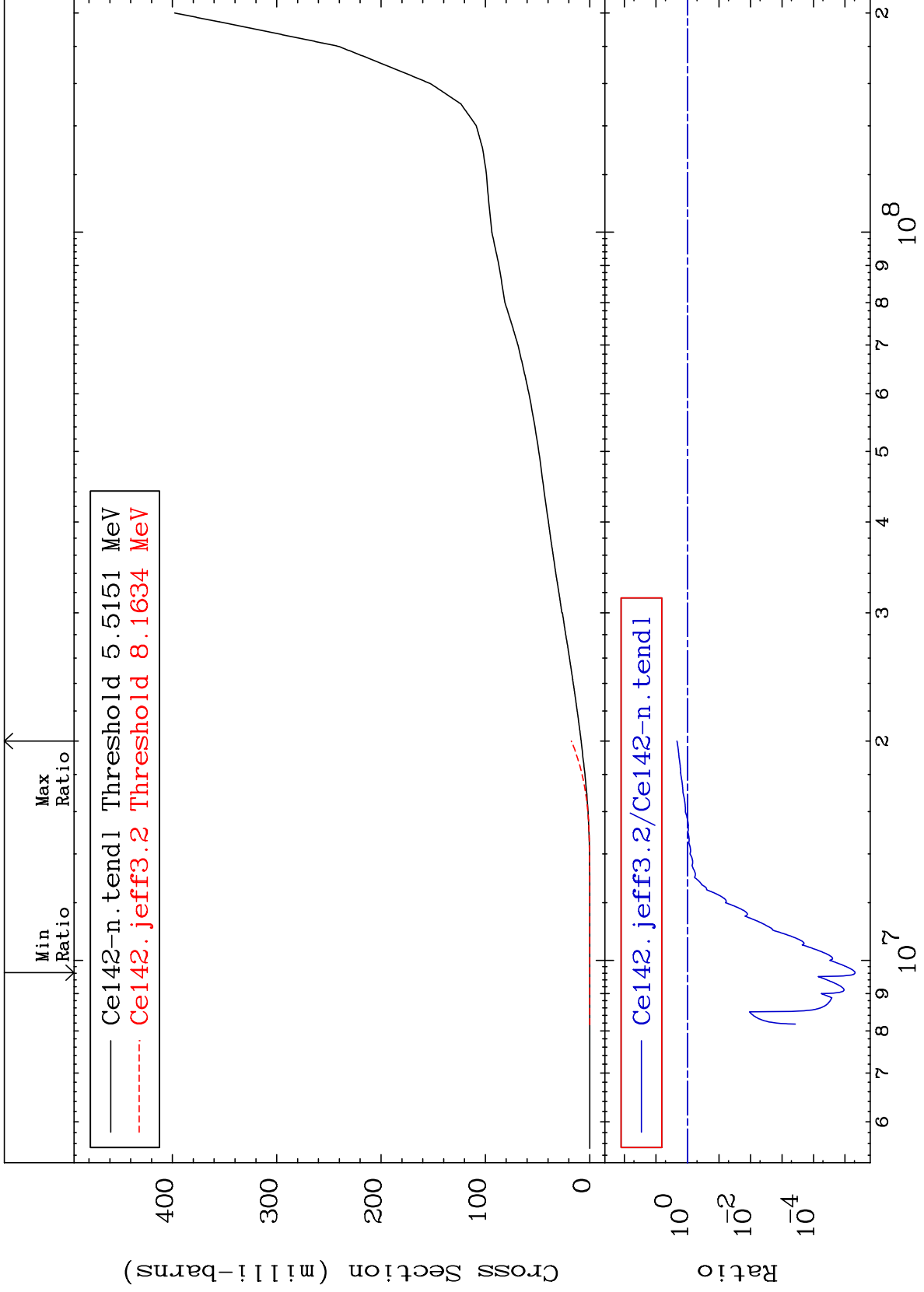
Incident Energy (eV)

58-Ce-142

MAT 5843

Deuterium Production
Cross Section

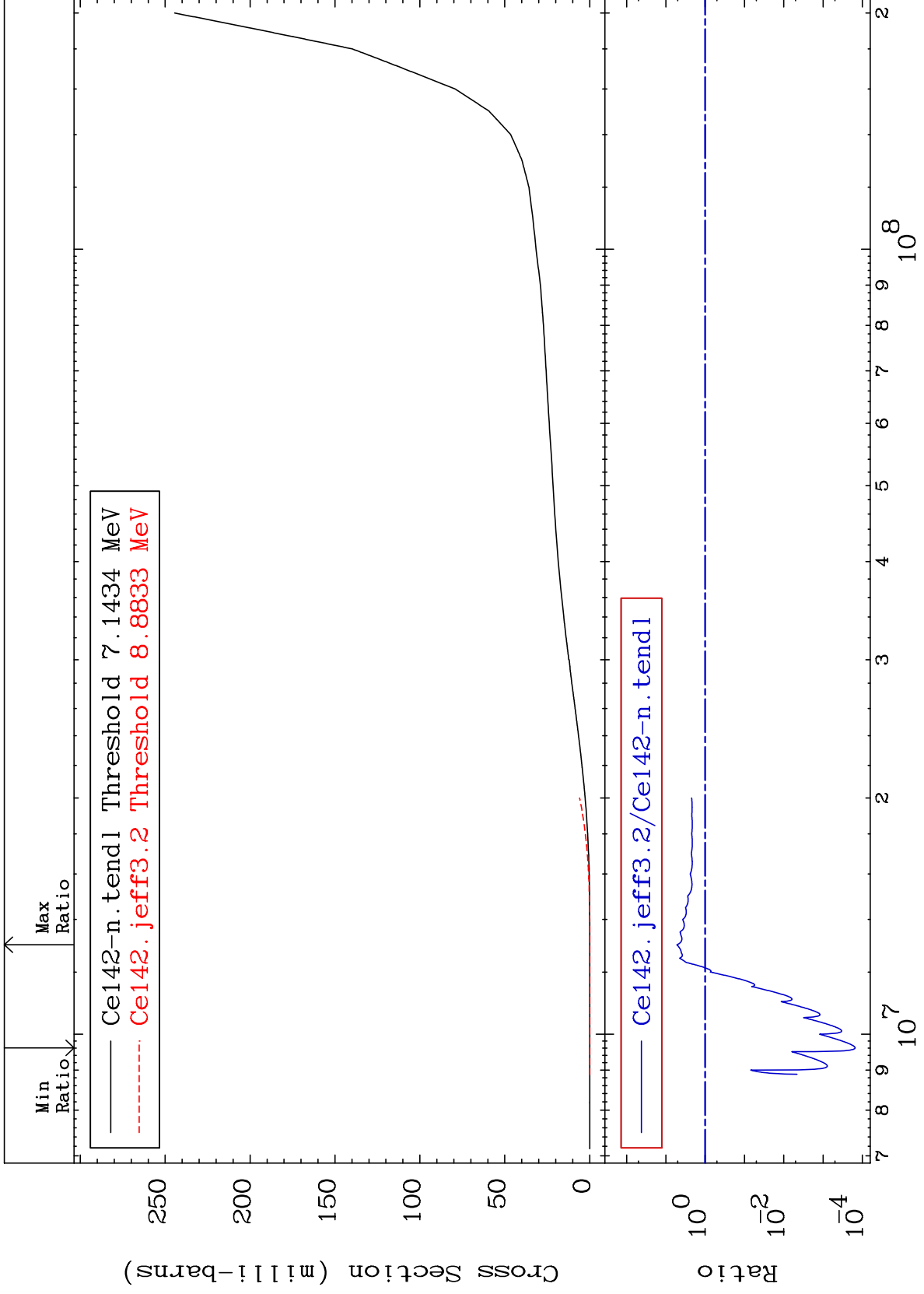
58-Ce-142
-100.0 To 116.1 %



MAT 5843

Tritium Production
Cross Section

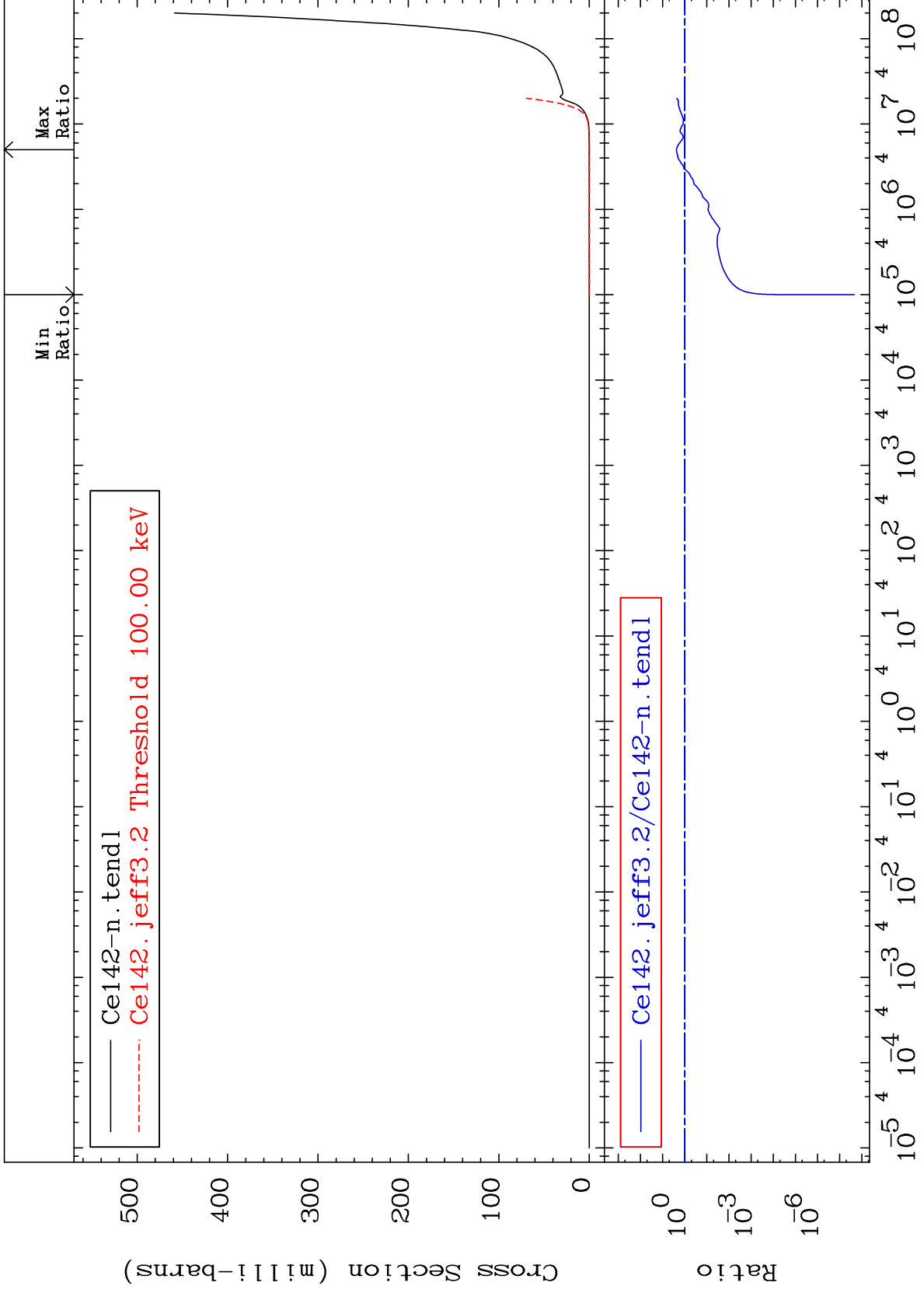
58-Ce-142
-99.98 To 424.2 %



MAT 5843

He-4 Production
Cross Section

58-Ce-142
-100.0 To 138.9 %



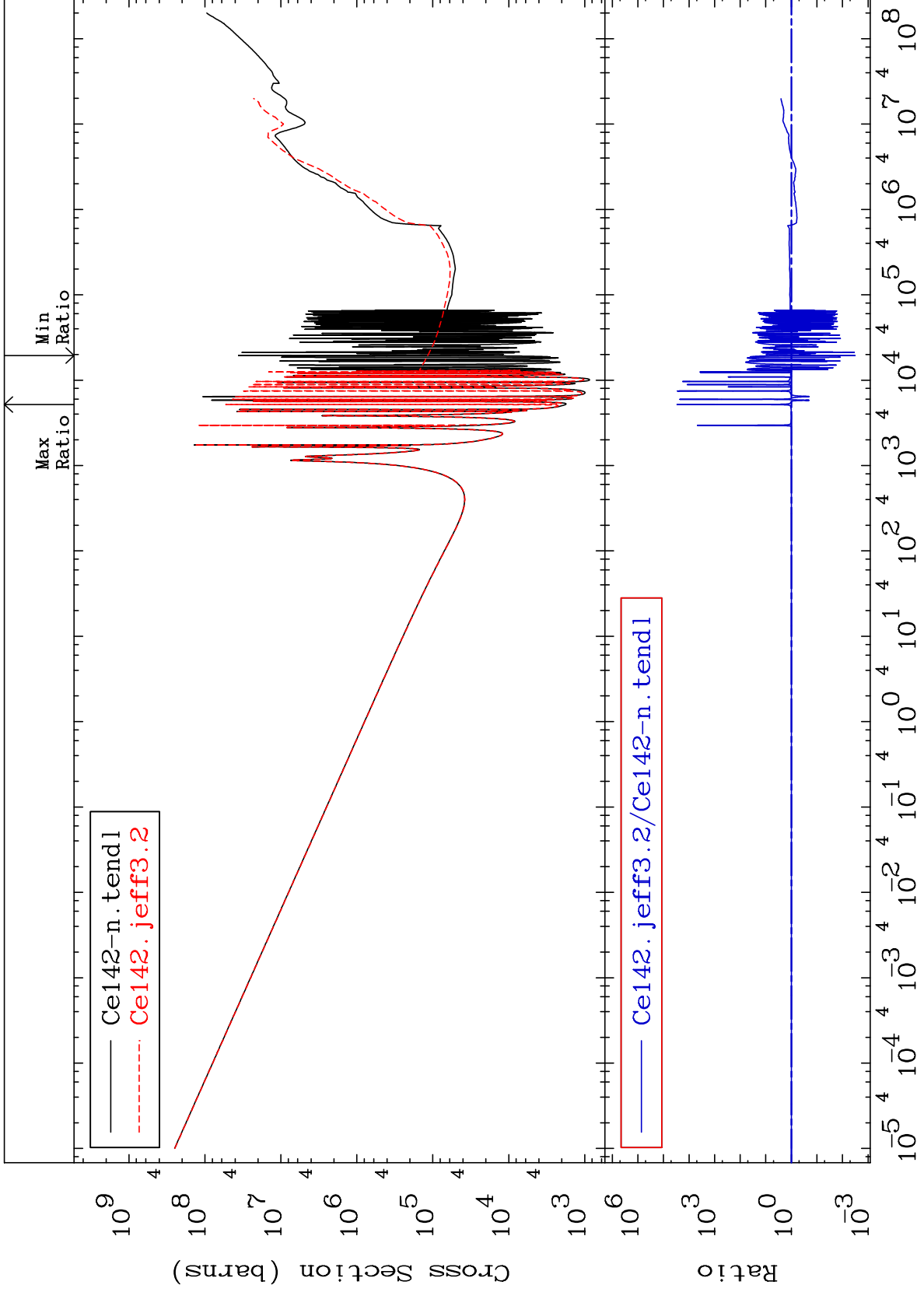
28

58-Ce-142

MAT 5843

Kerma total (eV-barns)
Cross Section

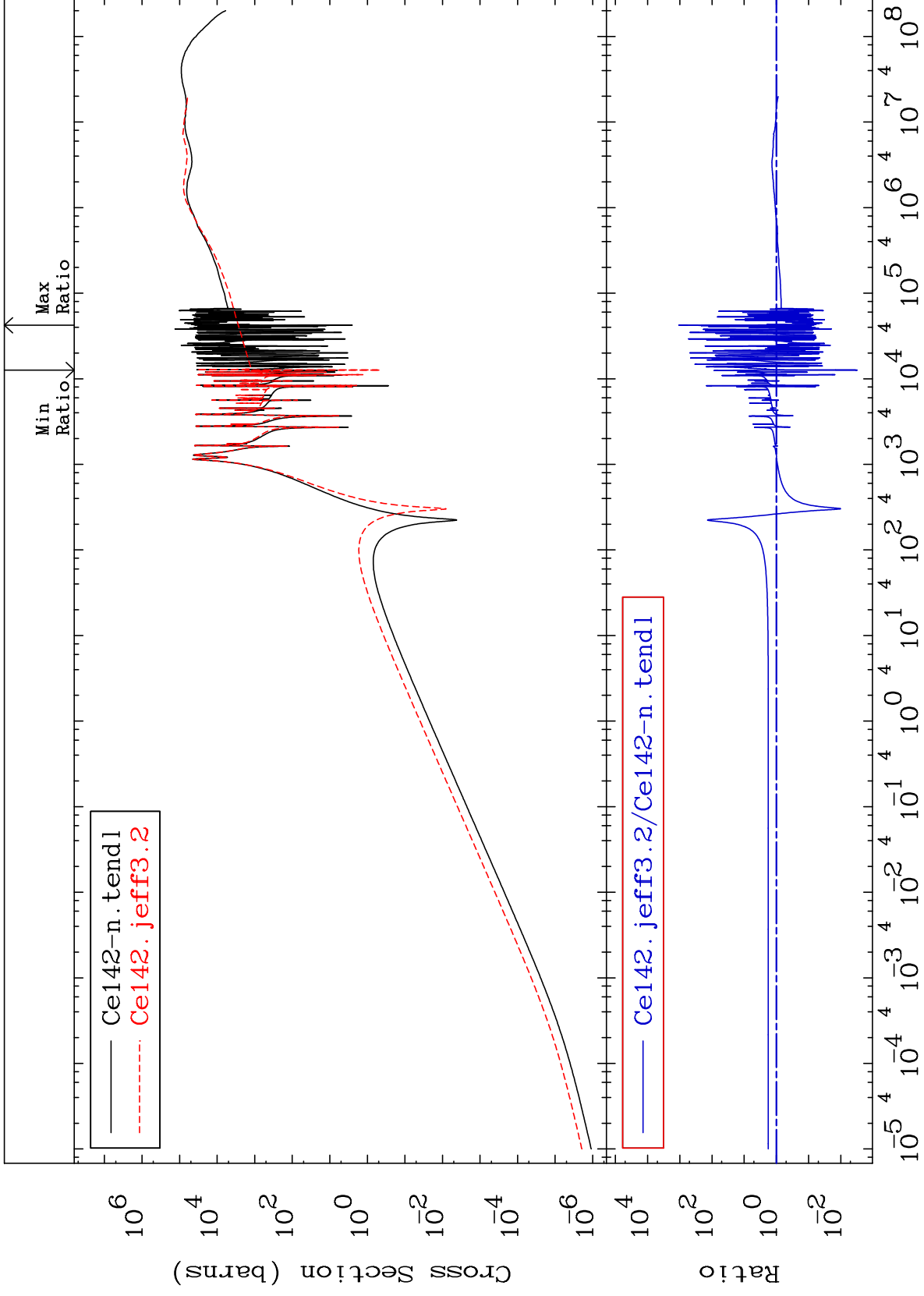
58-Ce-142
-99.68 To 9999. %

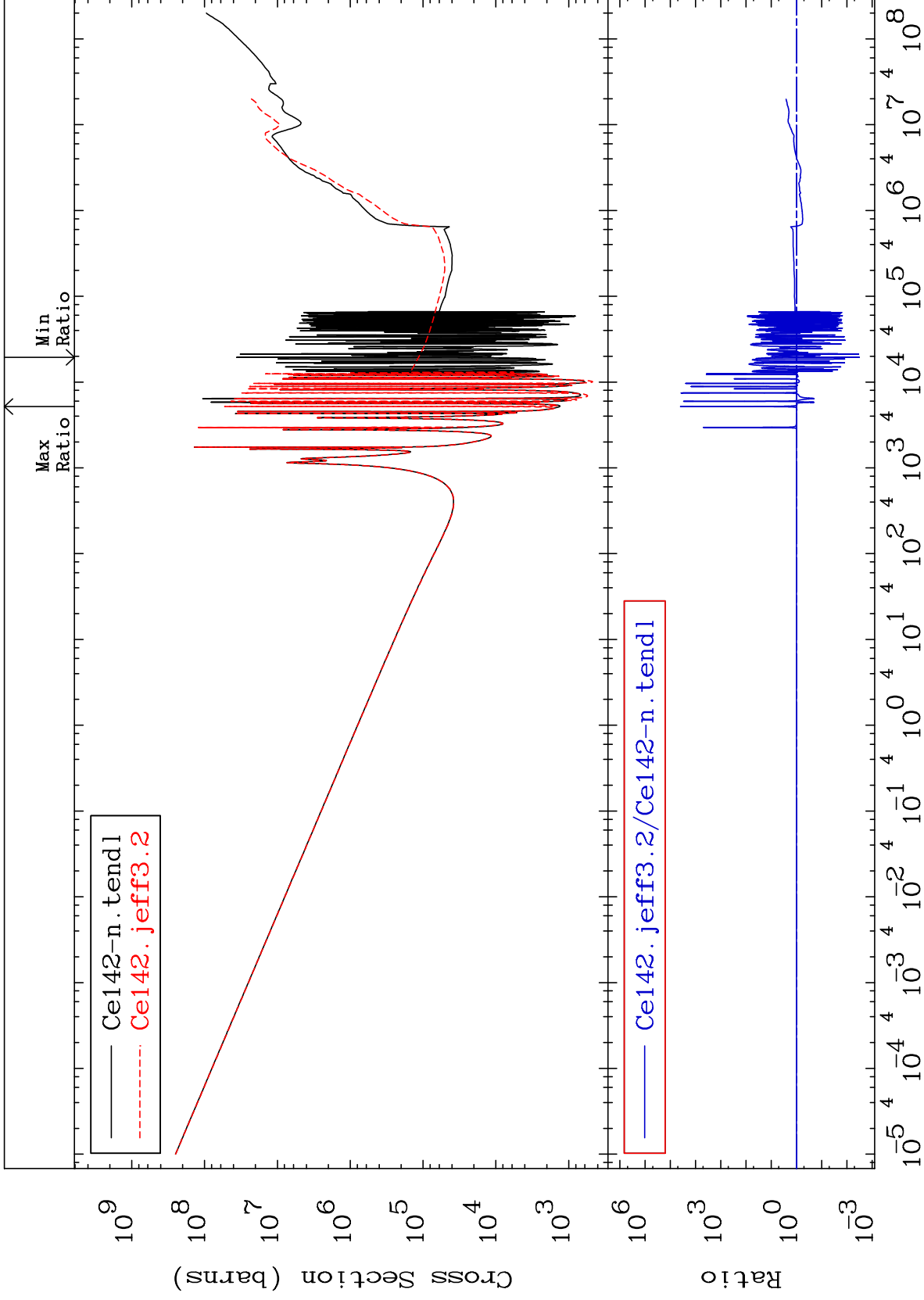


MAT 5843

Kerma elastic
Cross Section

58-Ce-142
-99.69 To 9999. %

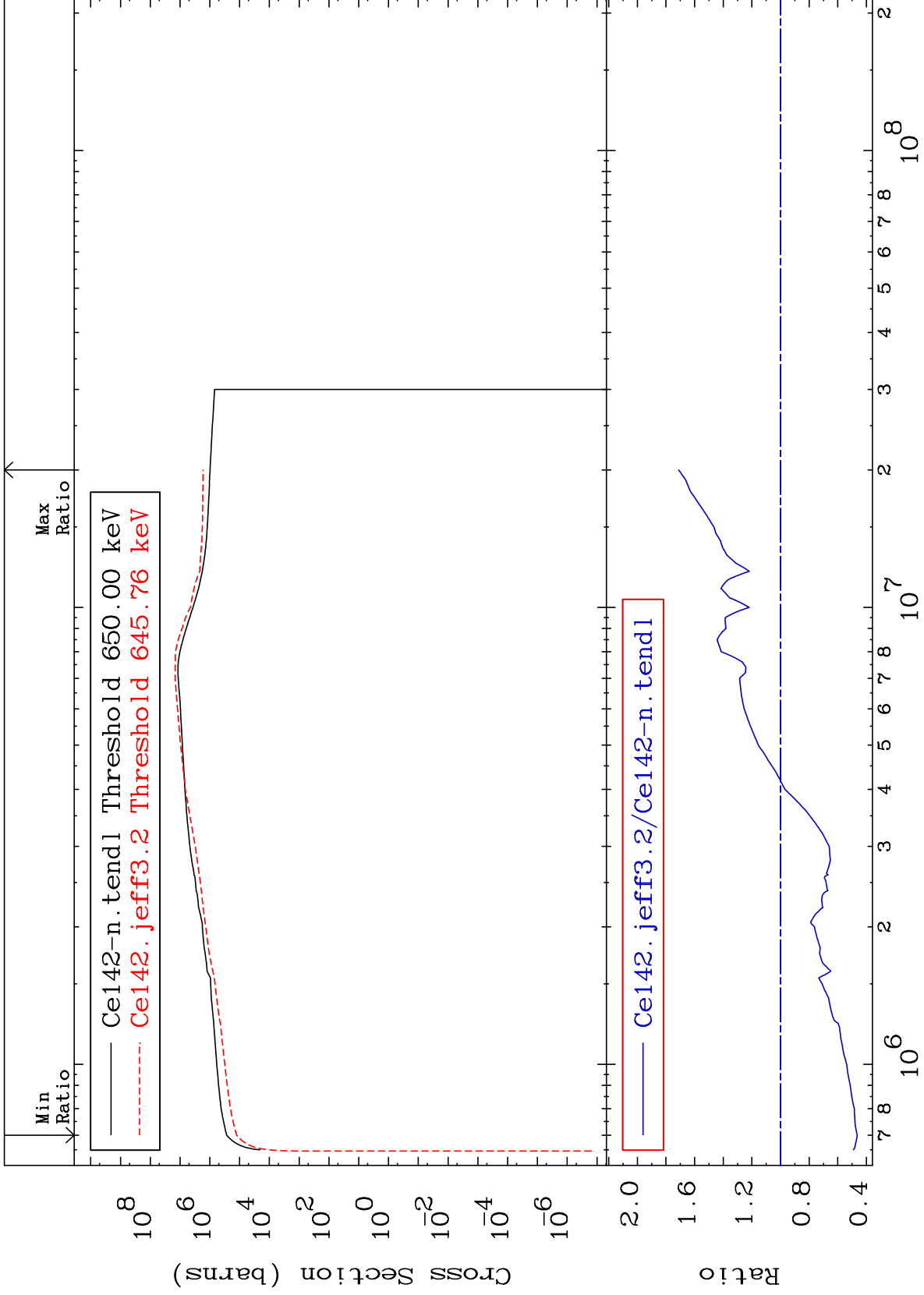




MAT 5843

Kerma inelastic (mt51-91)
Cross Section

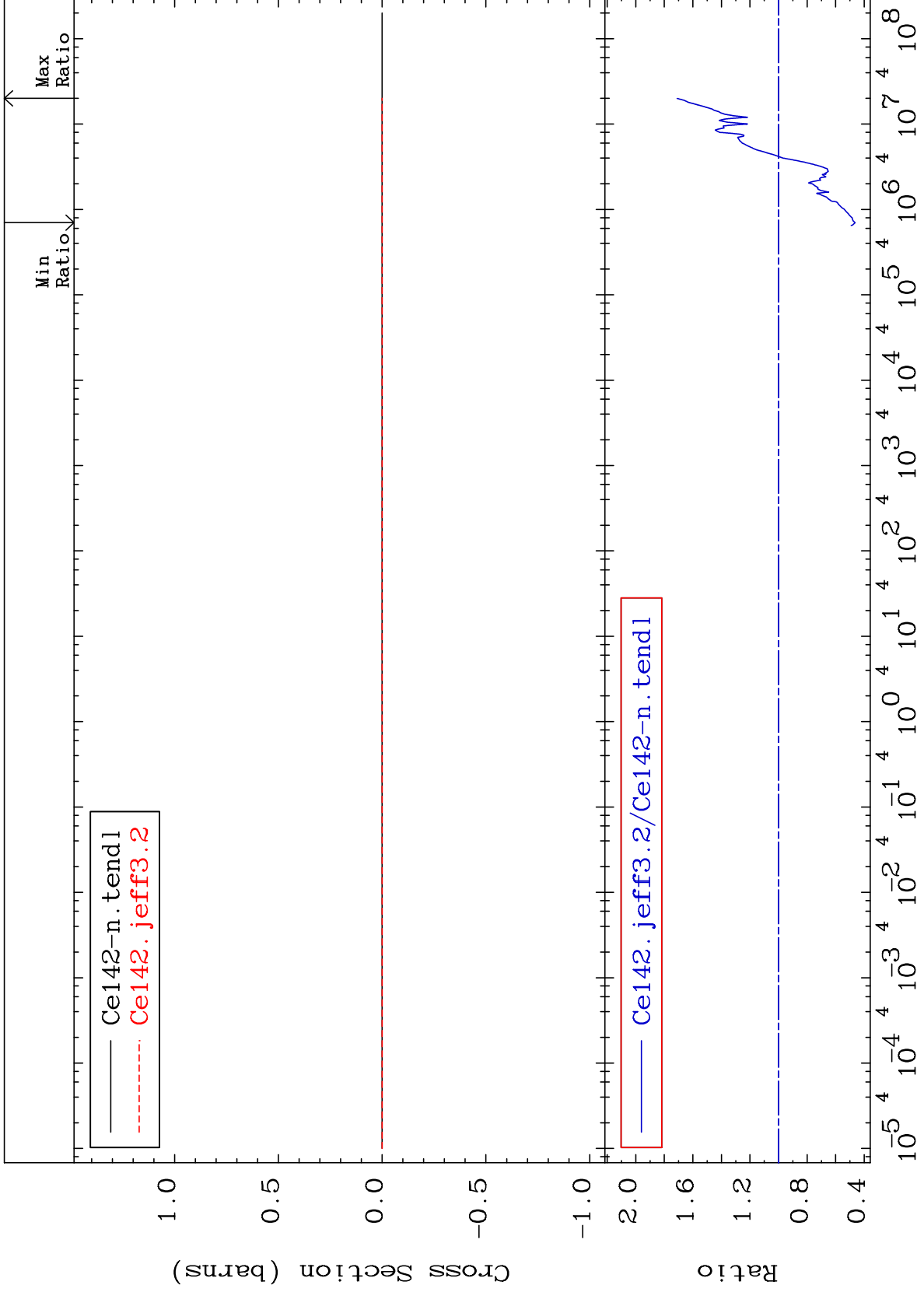
58-Ce-142
-53.60 To 71.17 %



MAT 5843

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

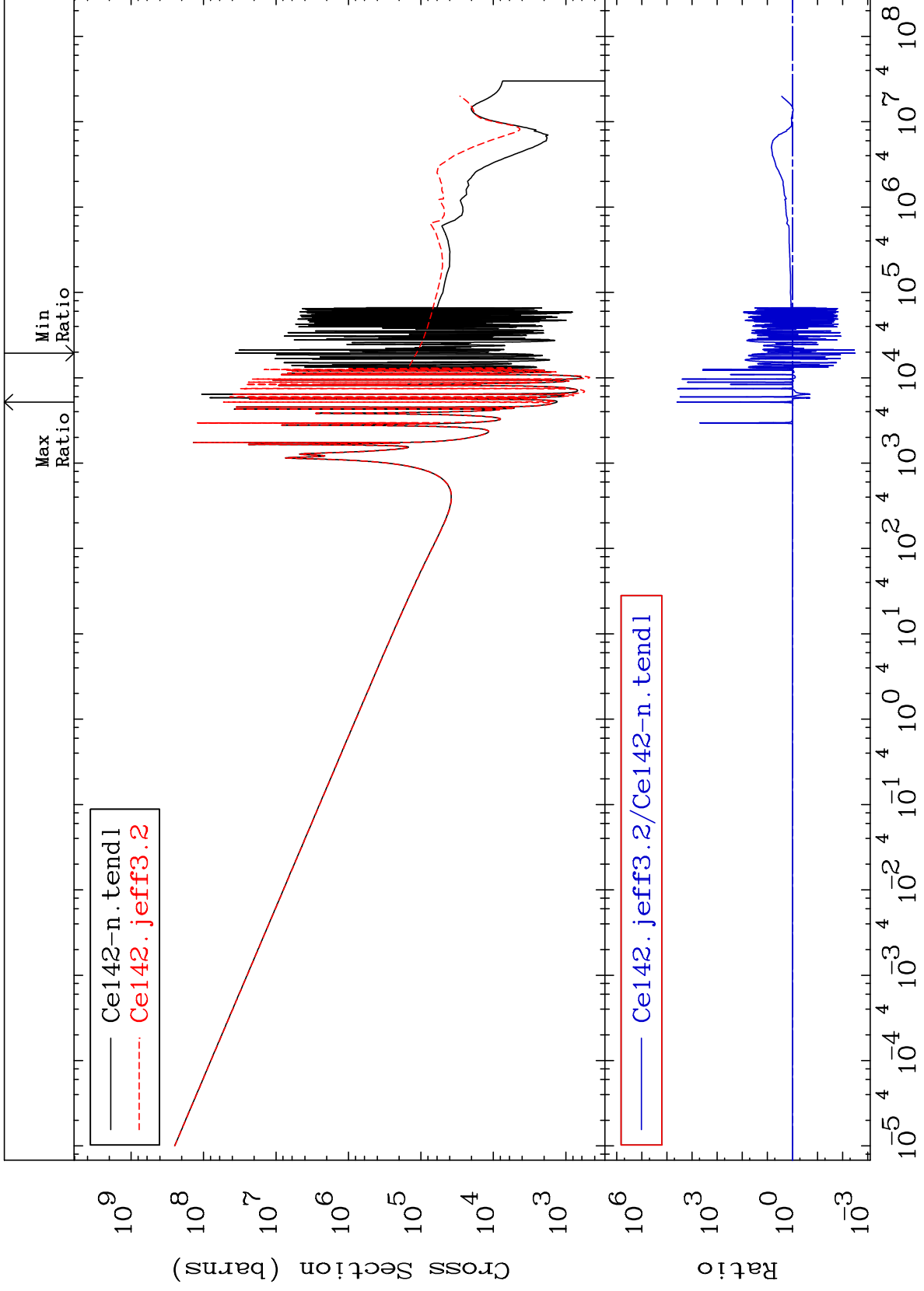
58-Ce-142
-53.60 To 71.17 %



MAT 5843

Kerma capture (mt102)
Cross Section

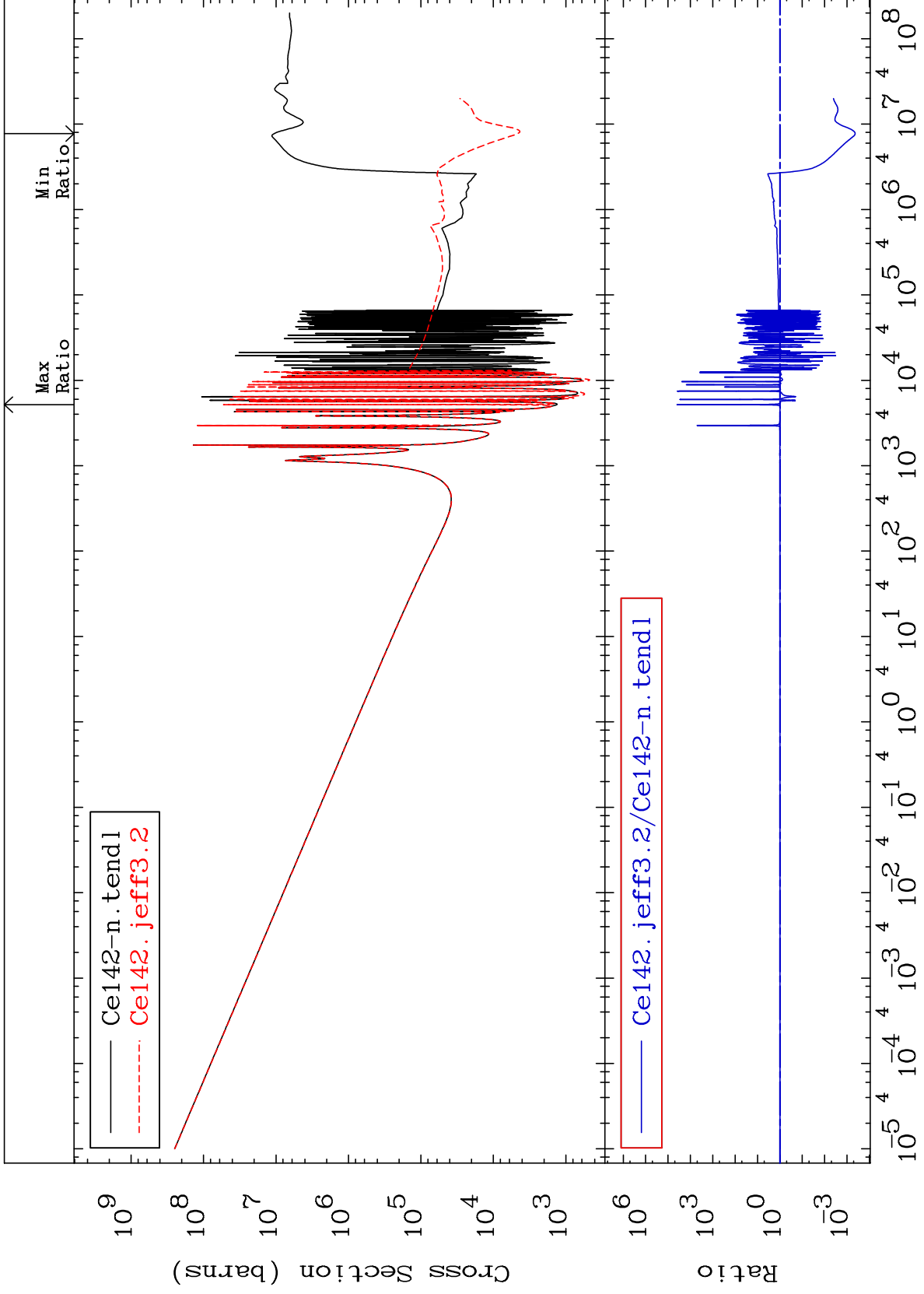
58-Ce-142
-99.68 To 9999. %

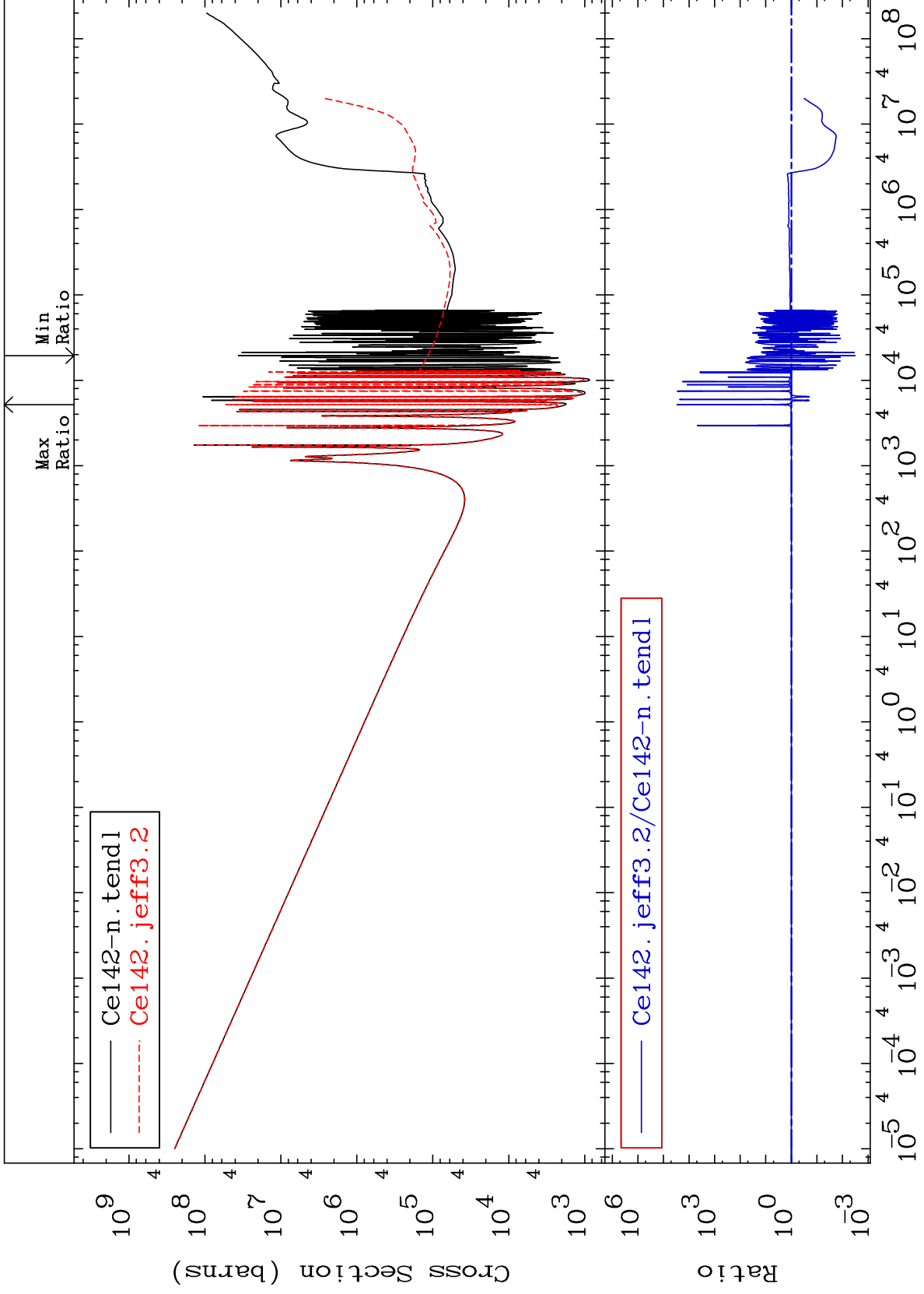


MAT 5843

Total photon (eV-barns)
Cross Section

58-Ce-142
-99.96 To 9999. %

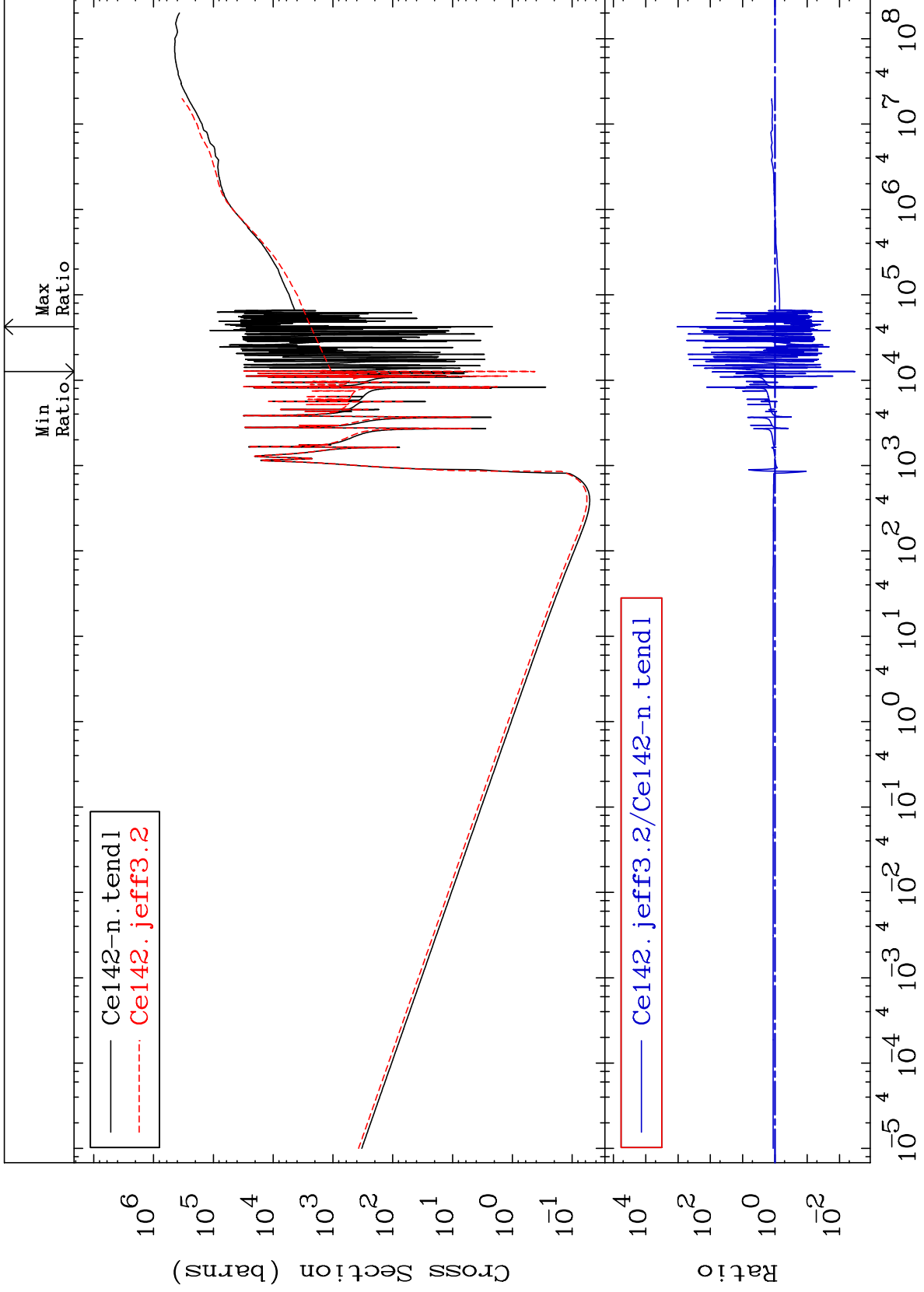




MAT 5843

Dpa total (eV-barns)
Cross Section

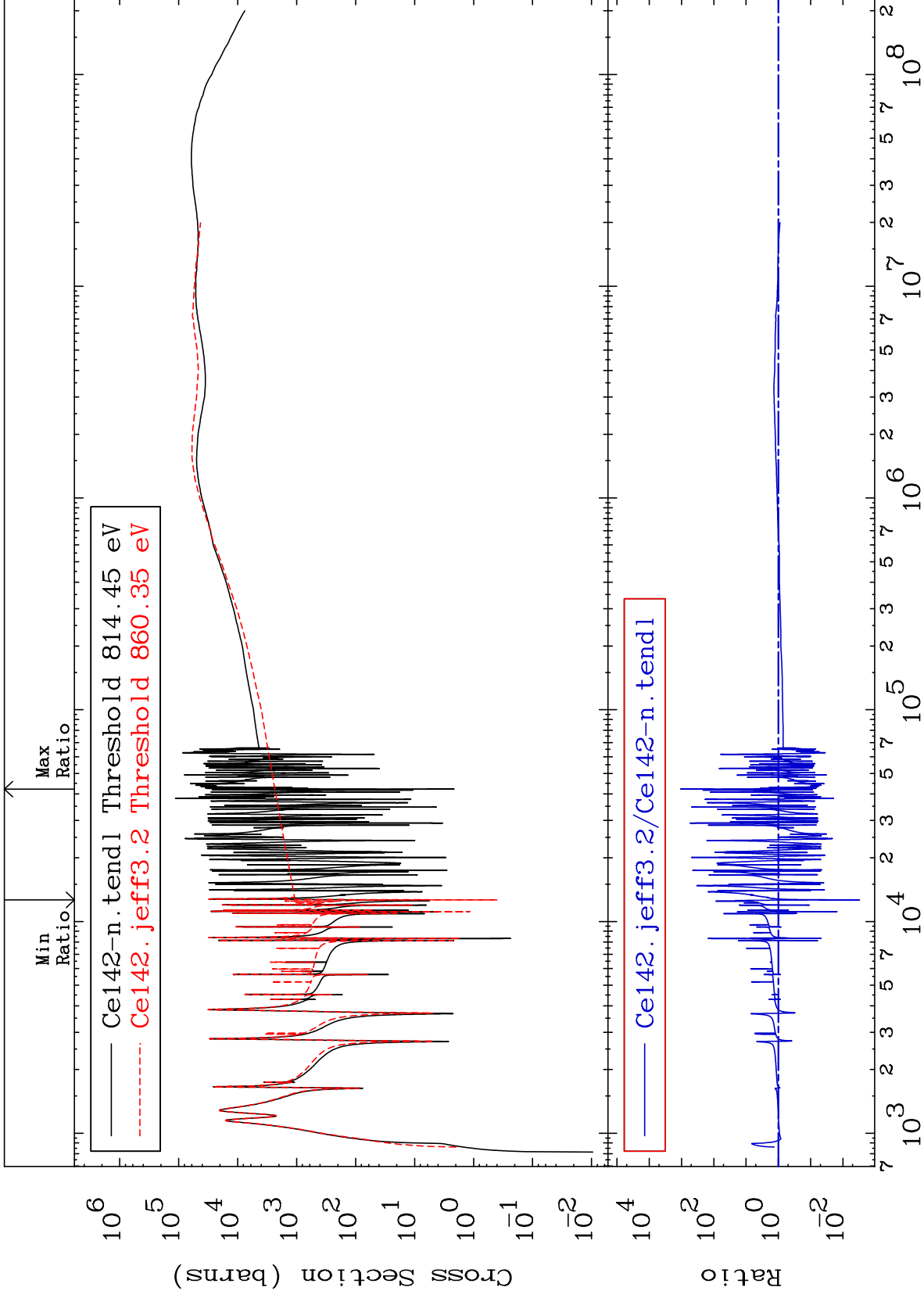
58-Ce-142
-99.67 To 9999. %



MAT 5843

Dpa elastic (mt2)
Cross Section

58-Ce-142
-99.69 To 9999. %



38

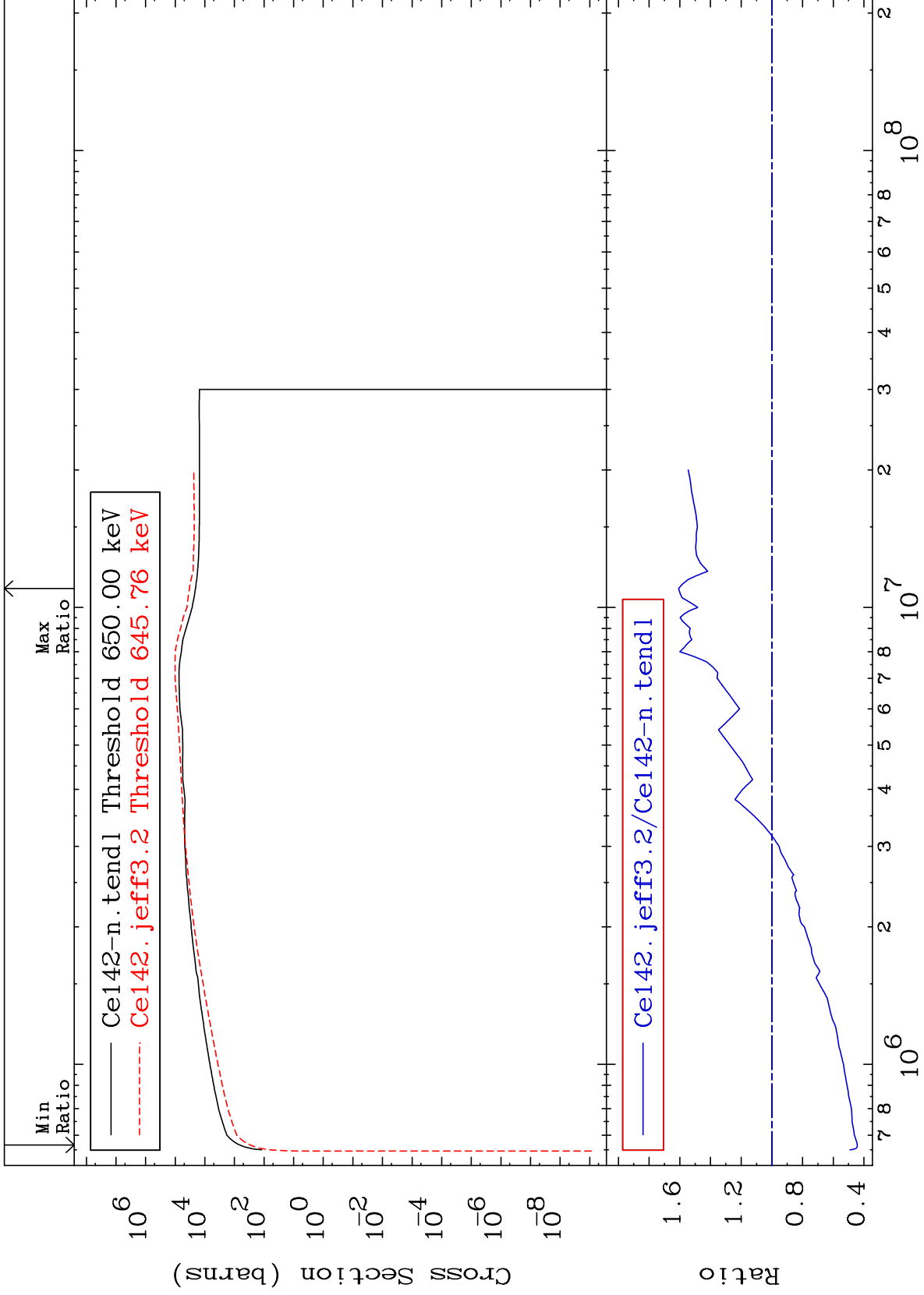
Incident Energy (eV)

58-Ce-142

MAT 5843

Dpa inelastic (mt51-91)
Cross Section

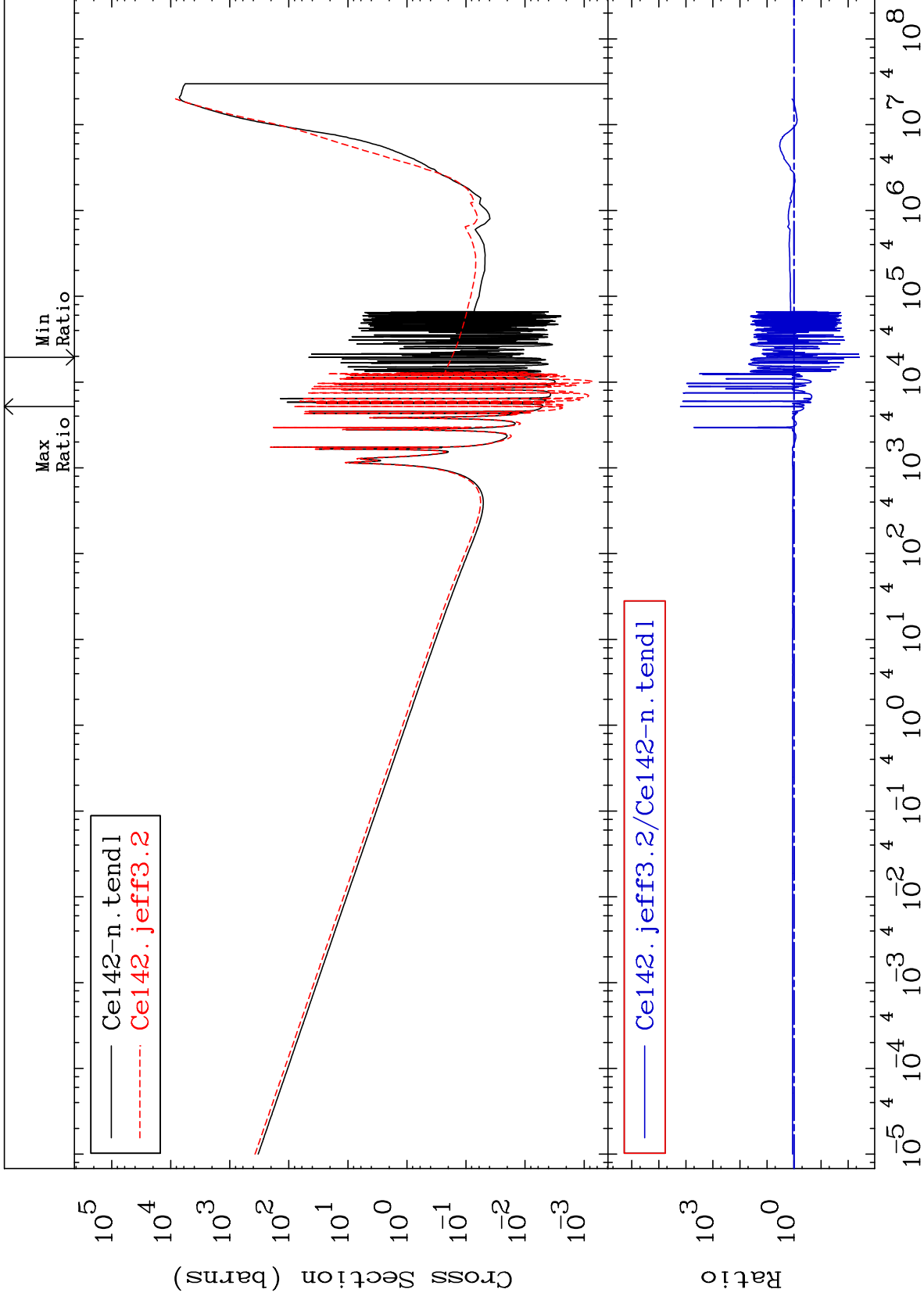
58-Ce-142
-55.64 To 60.76 %



MAT 5843

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-142
-99.62 To 9999. %



Incident Energy (eV)

40

58-Ce-142