

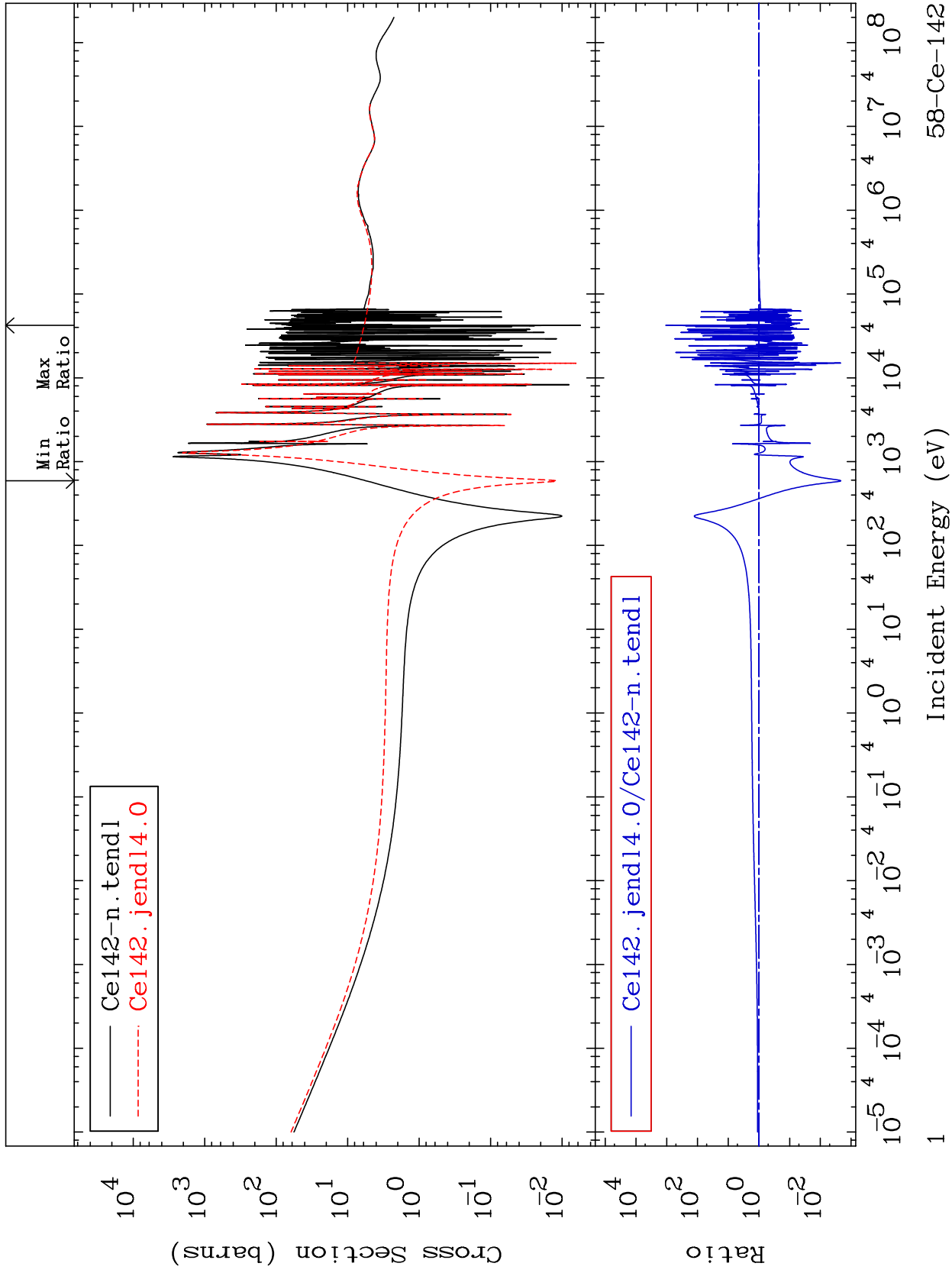
MAT 5843

Total

58-Ce-142

Cross Section

-99.78 To 9999. %



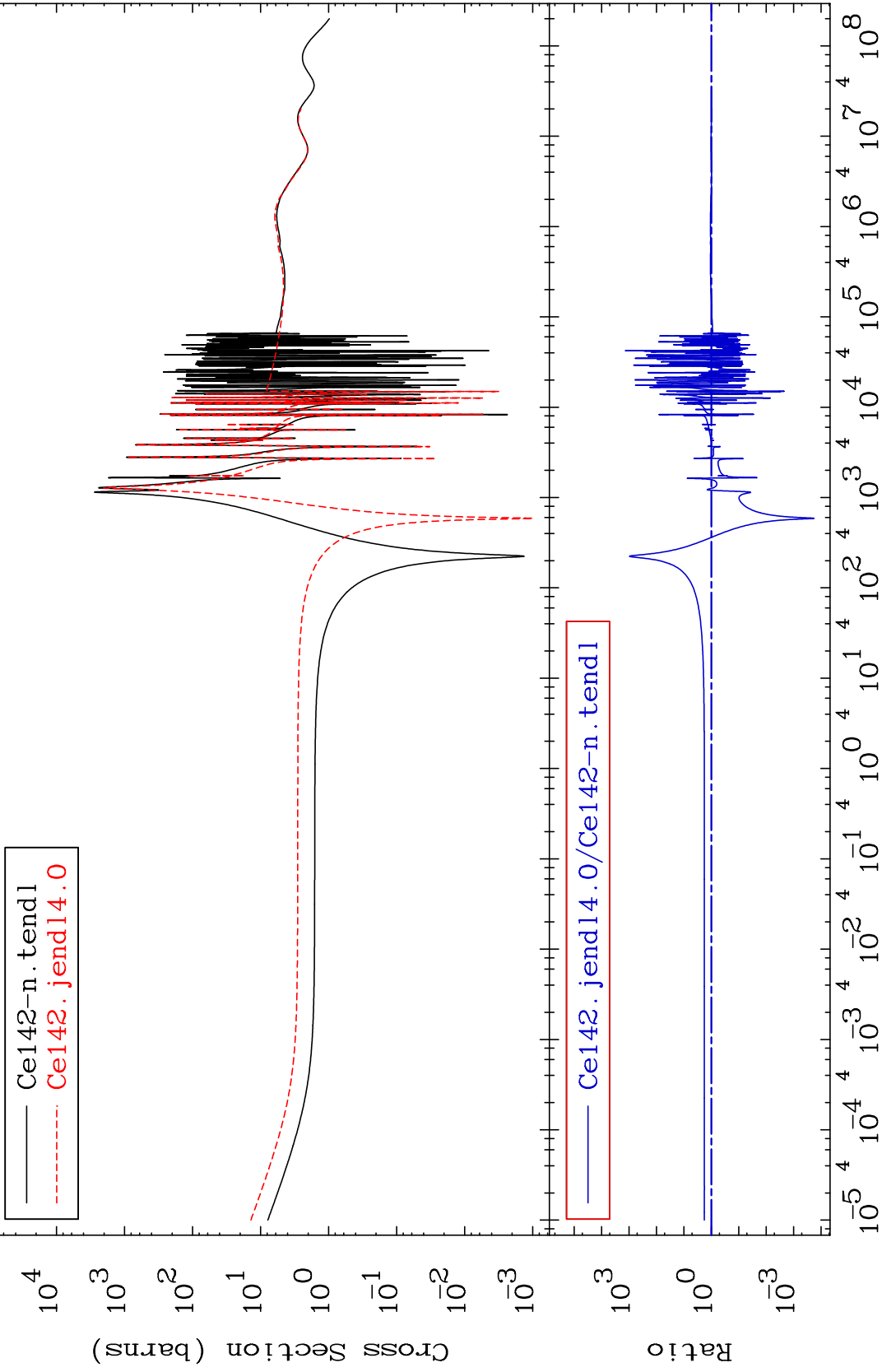
Incident Energy (eV)

58-Ce-142

MAT 5843

Elastic
Cross Section

58-Ce-142
-99.98 To 9999. %



Incident Energy (eV)

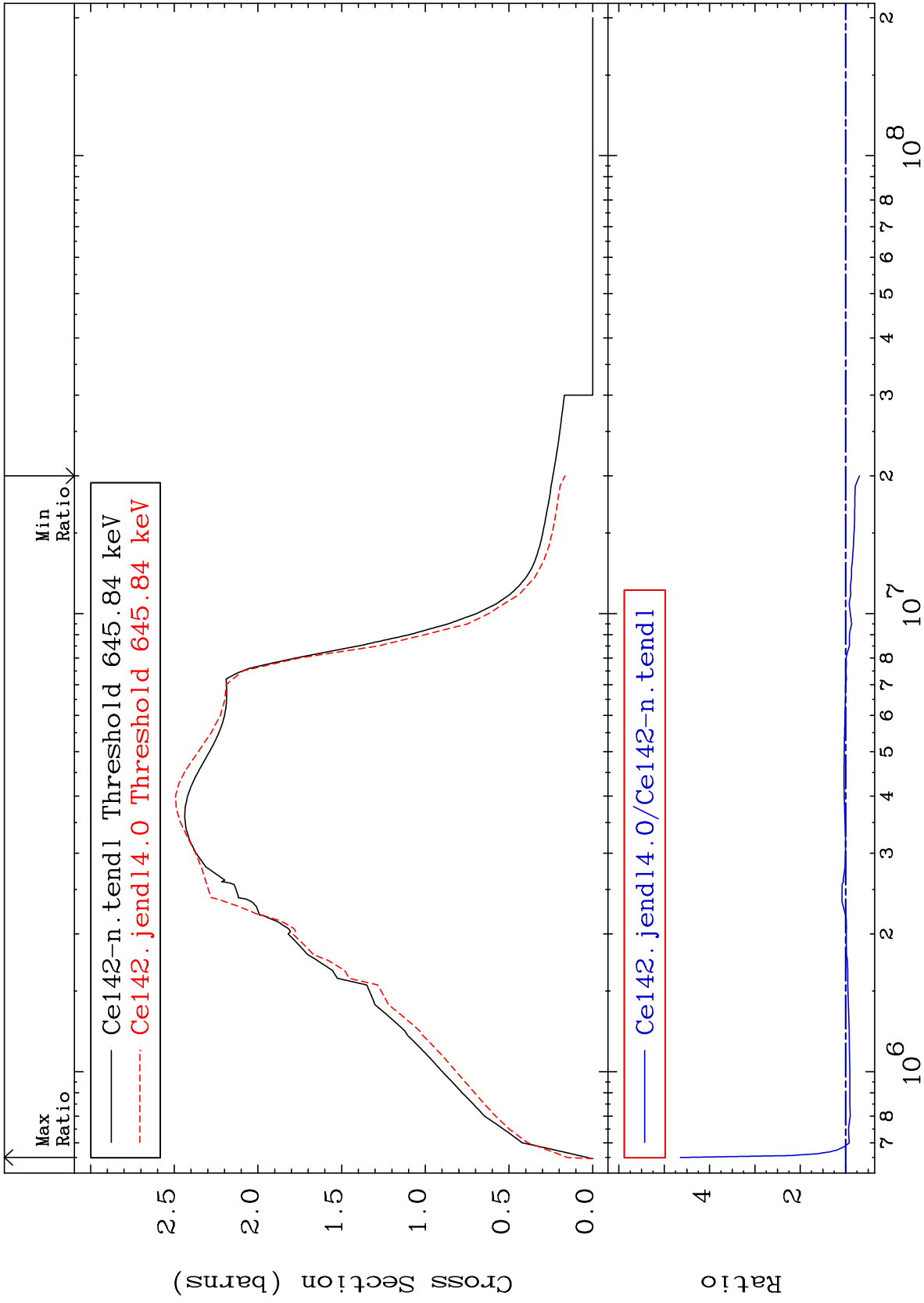
58-Ce-142

2

MAT 5843

Inelastic
Cross Section

58-Ce-142
-30.59 To 364.4 %



3

58-Ce-142

MAT 5843

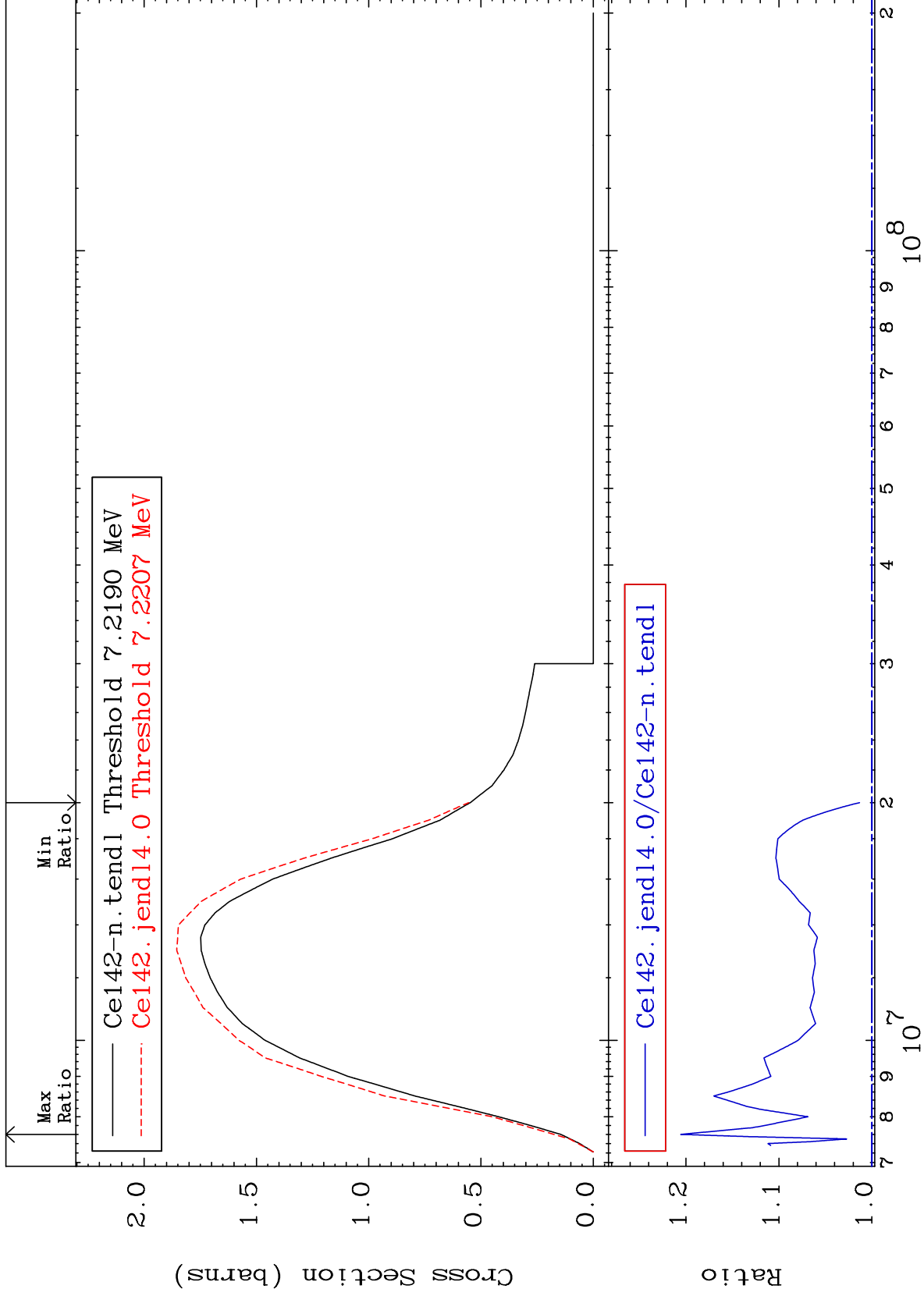
(n,2n)

58-Ce-142

Cross Section

1.323

To 20.55 %



Incident Energy (eV)

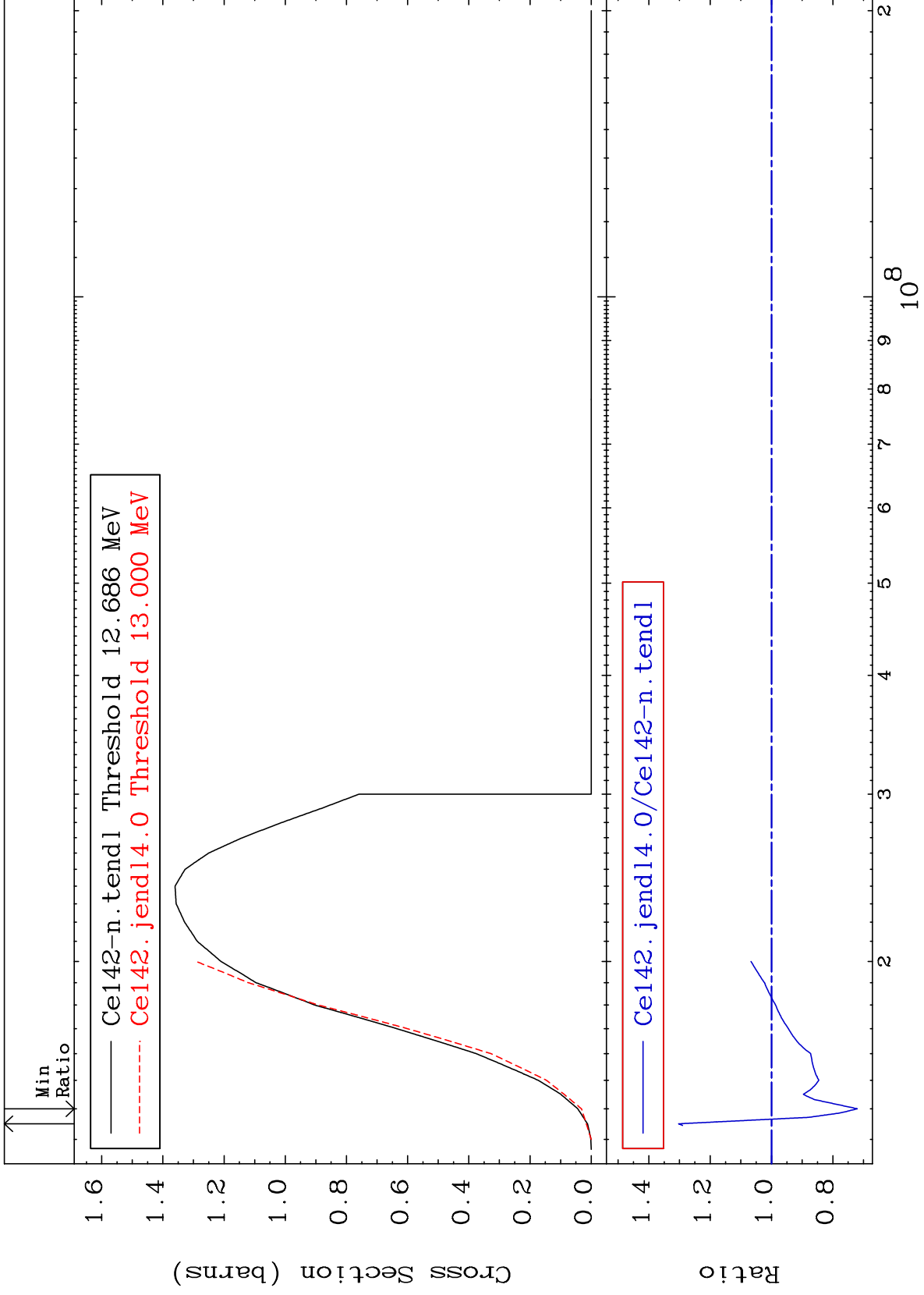
58-Ce-142

4

MAT 5843

(n,3n)
Cross Section

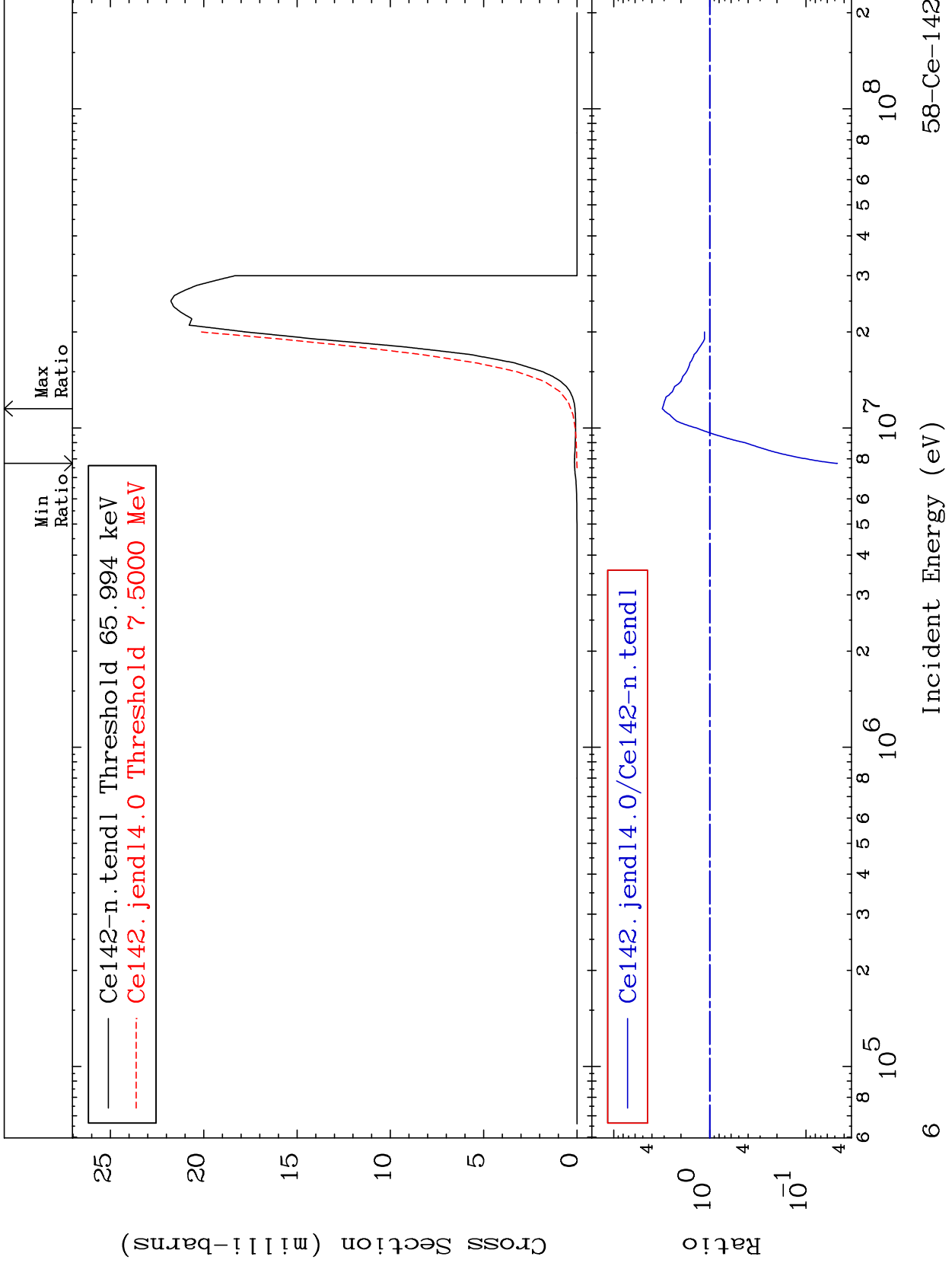
58-Ce-142
-27.96 To 30.28 %



MAT 5843

$(n, n') \alpha$
Cross Section

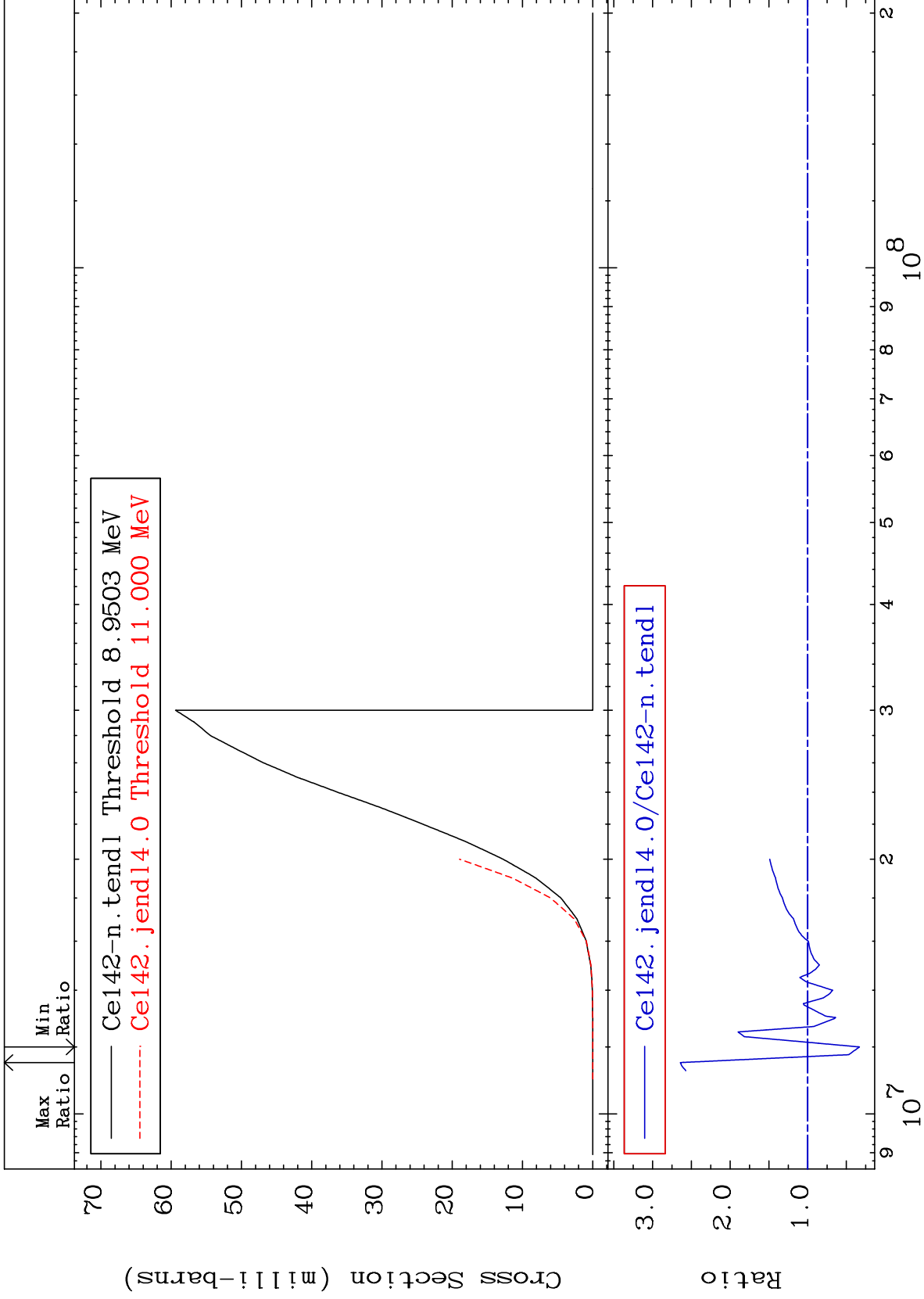
58-Ce-142
-95.21 To 212.4 %



MAT 5843

(n,n') p
Cross Section

58-Ce-142
-66.81 To 164.1 %



7

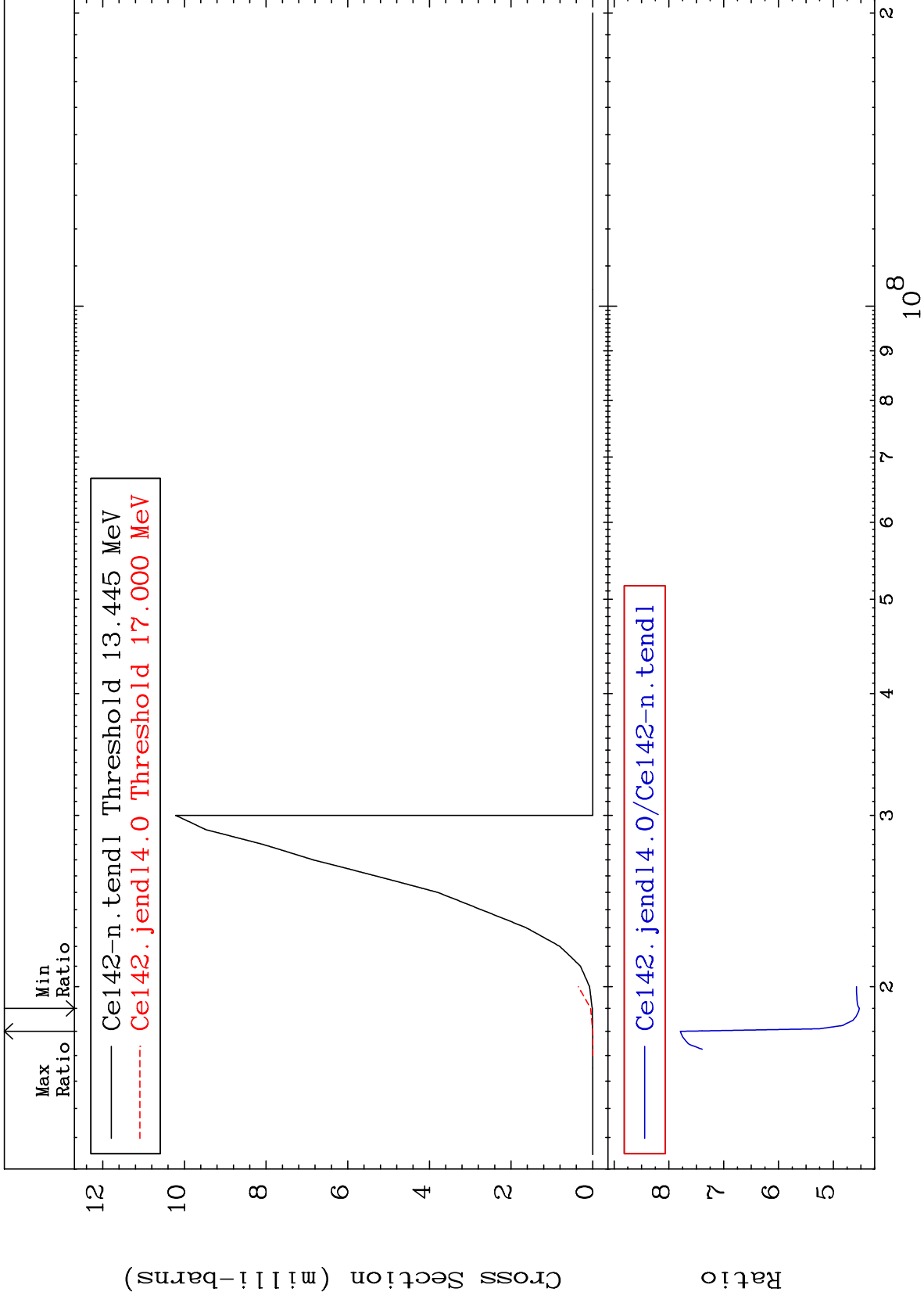
Incident Energy (eV)

58-Ce-142

MAT 5843

(n,n') d
Cross Section

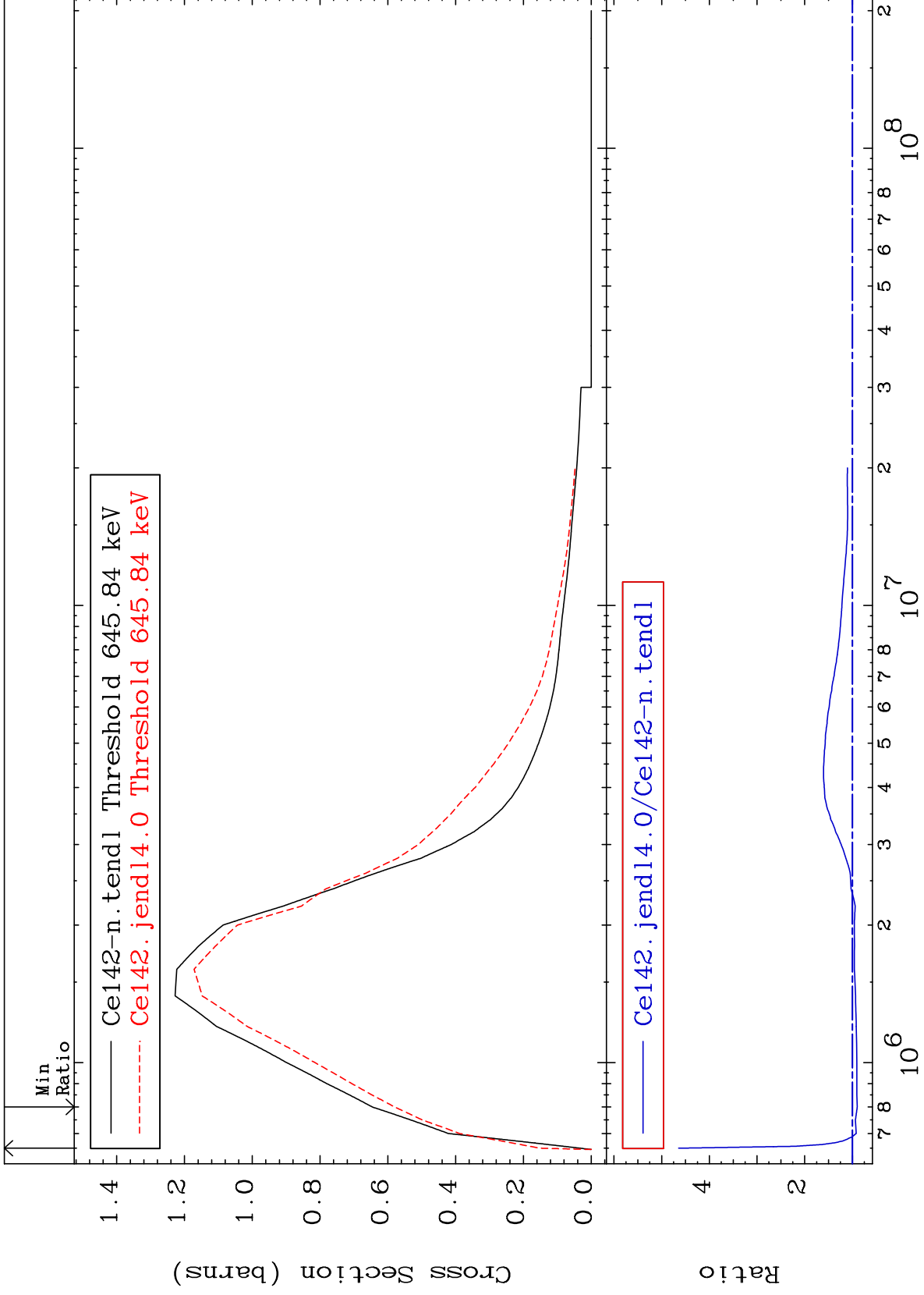
58-Ce-142
352.5 To 679.2 %



MAT 5843

641.3 keV (n,n') Level
Cross Section

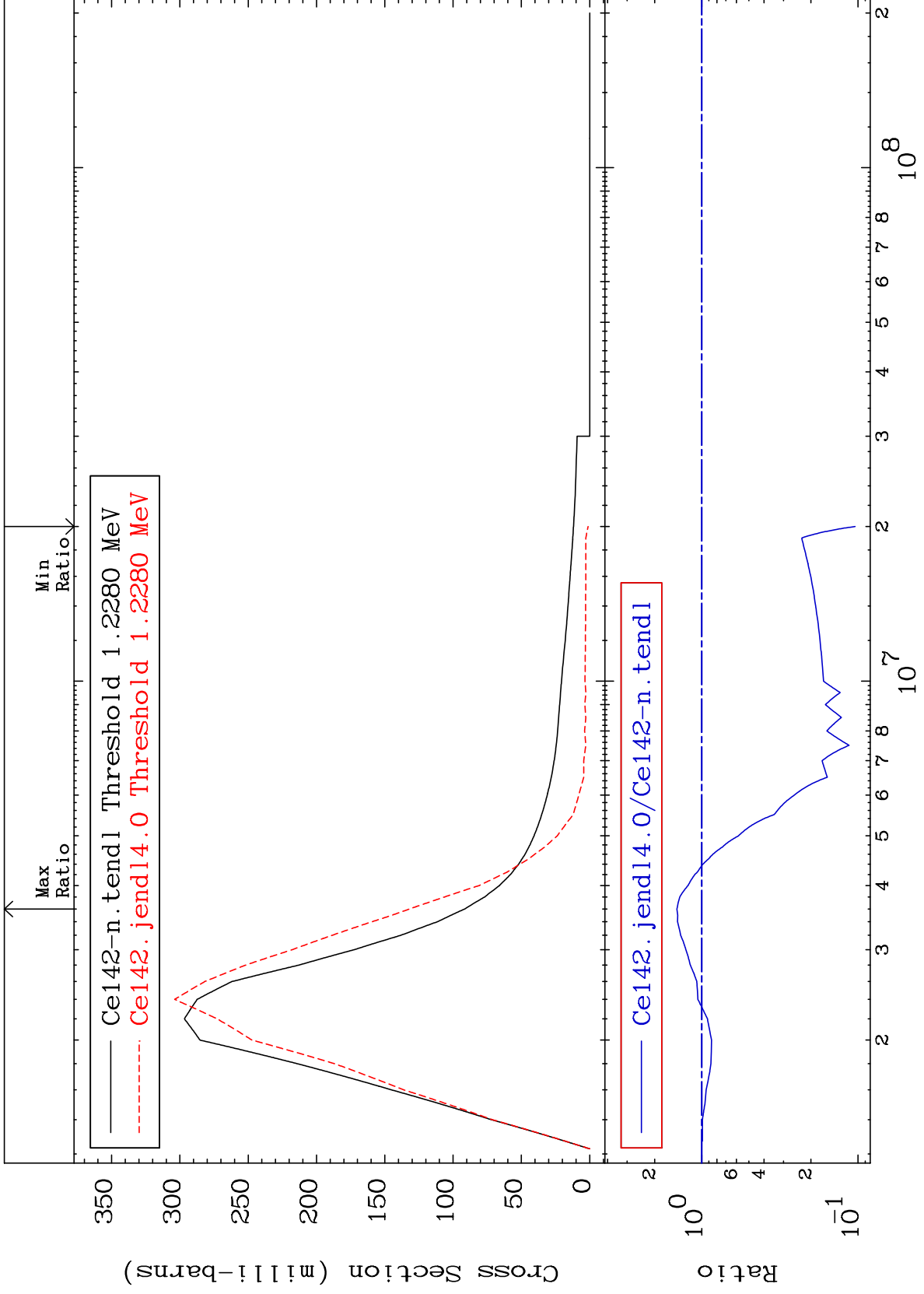
58-Ce-142
-10.20 To 364.4 %



MAT 5843

1.219 MeV (n,n') Level
Cross Section

58-Ce-142
-89.56 To 44.09 %



10

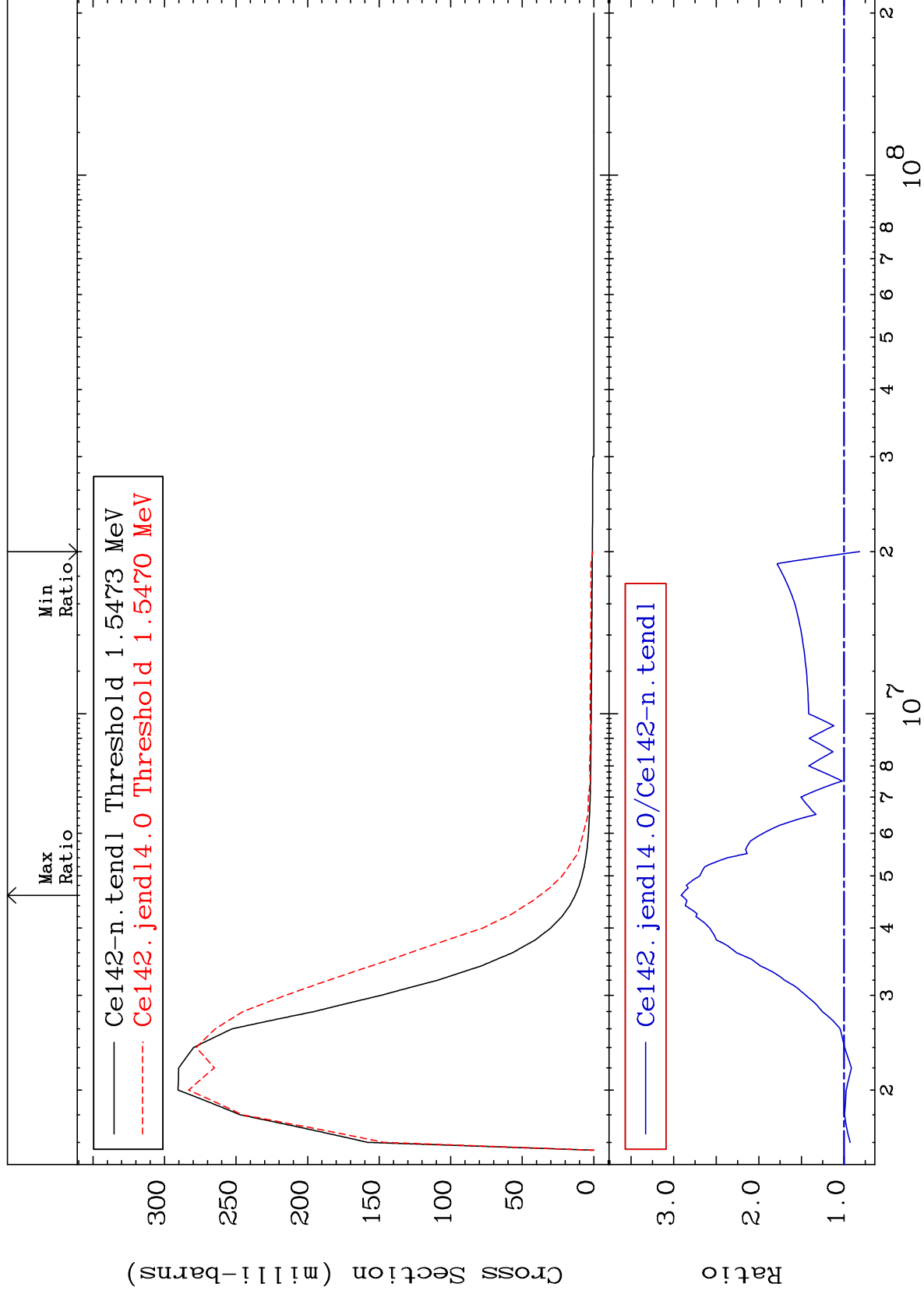
Incident Energy (eV)

58-Ce-142

MAT 5843

1.536 MeV (n,n') Level
Cross Section

58-Ce-142
-18.36 To 191.2 %



11

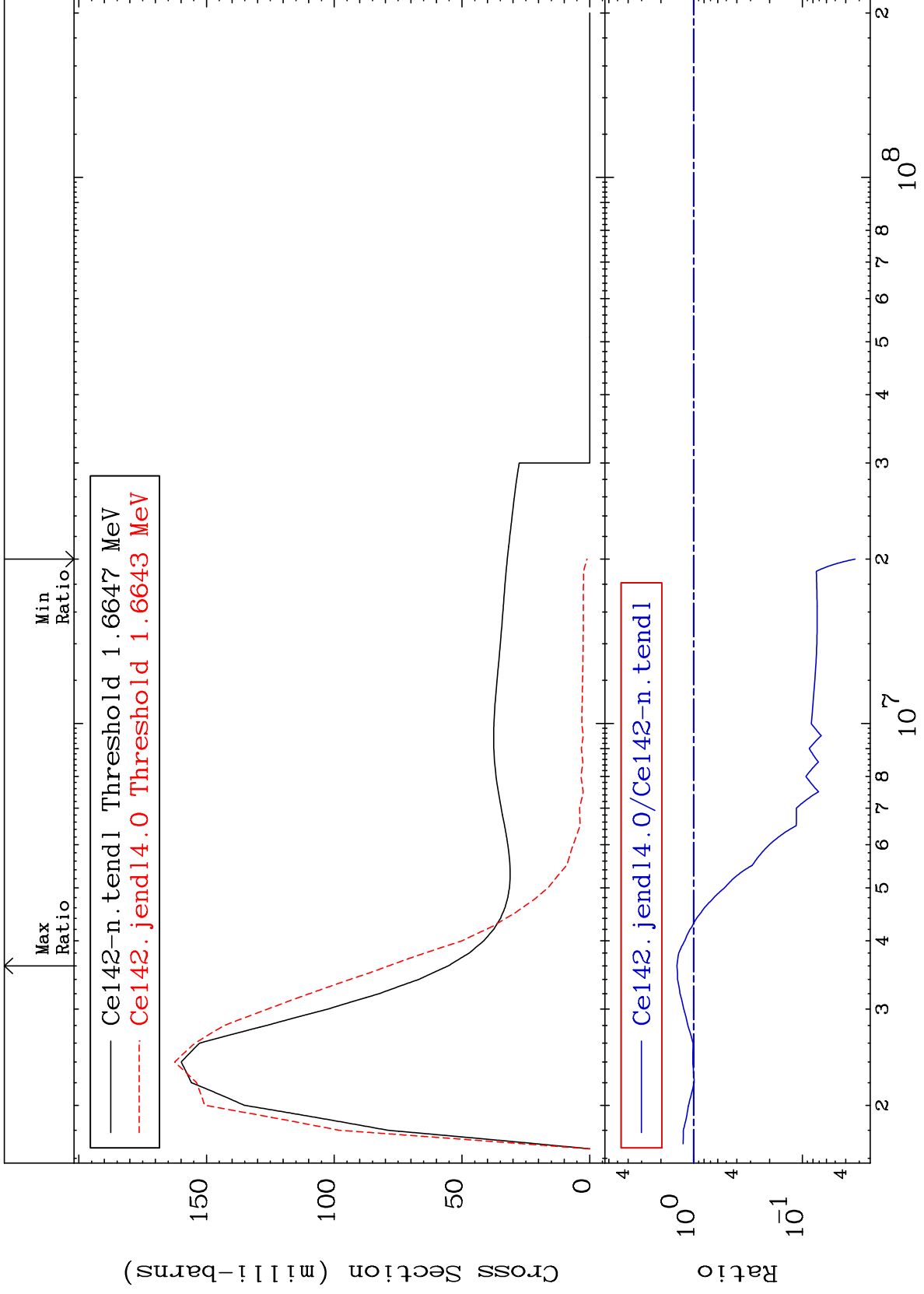
Incident Energy (eV)

58-Ce-142

MAT 5843

1.653 MeV (n,n') Level
Cross Section

58-Ce-142
-96.72 To 42.27 %



12

Incident Energy (eV)

58-Ce-142

MAT 5843

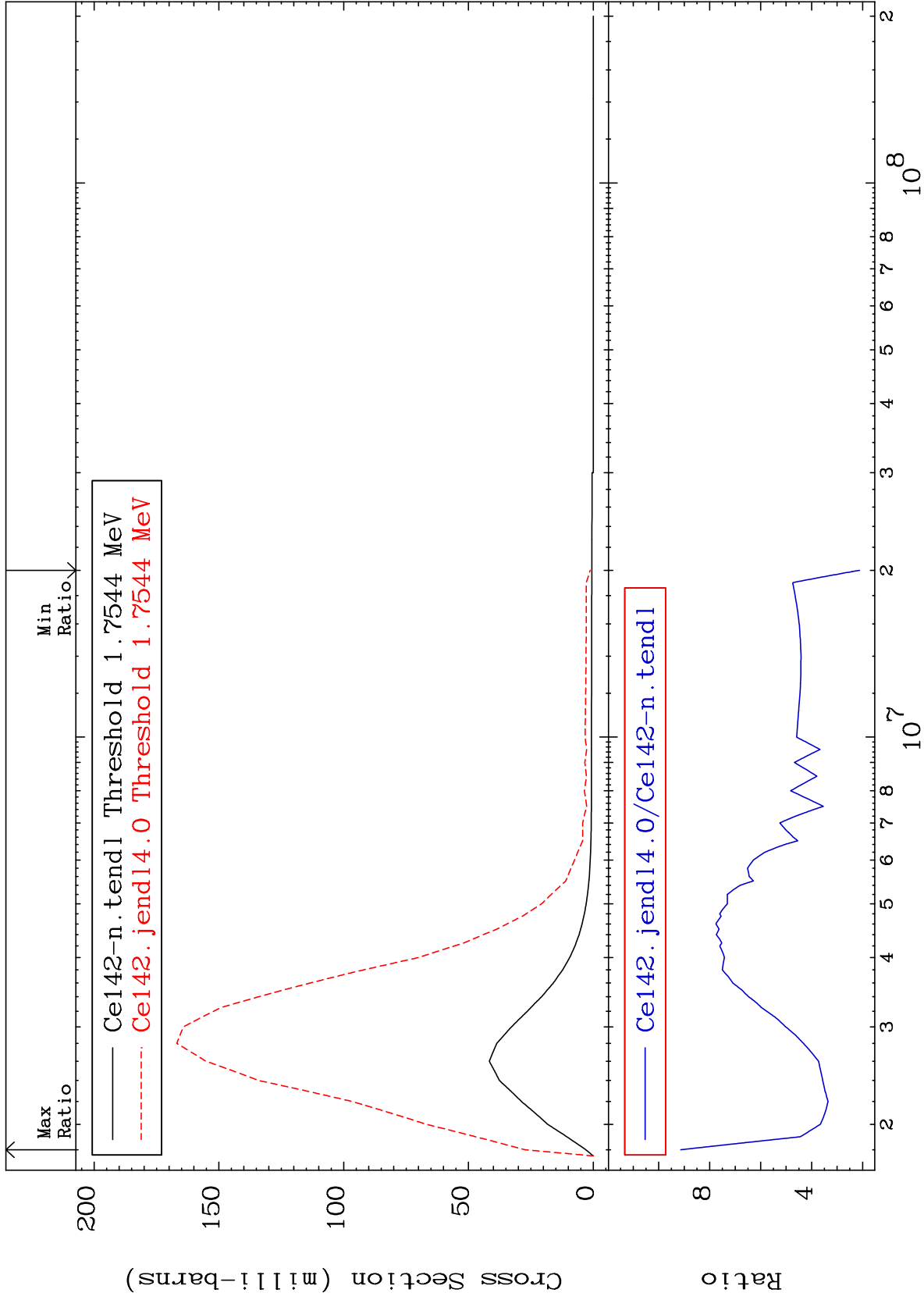
1.742 MeV (n,n') Level

58-Ce-142

Cross Section

112.0

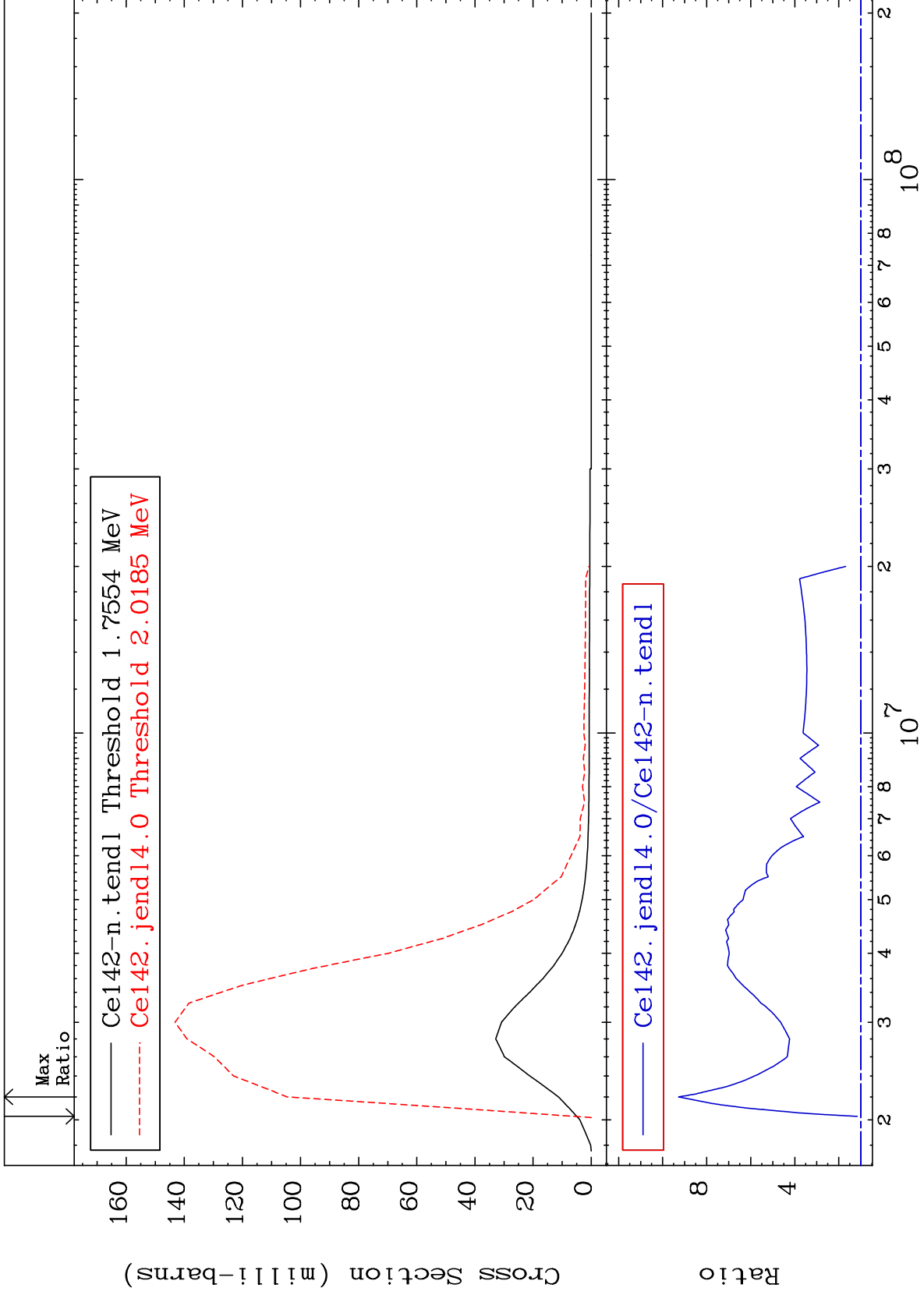
To 813.5 %



MAT 5843

1.743 MeV (n,n') Level
Cross Section

58-Ce-142
16.13 To 827.4 %



14

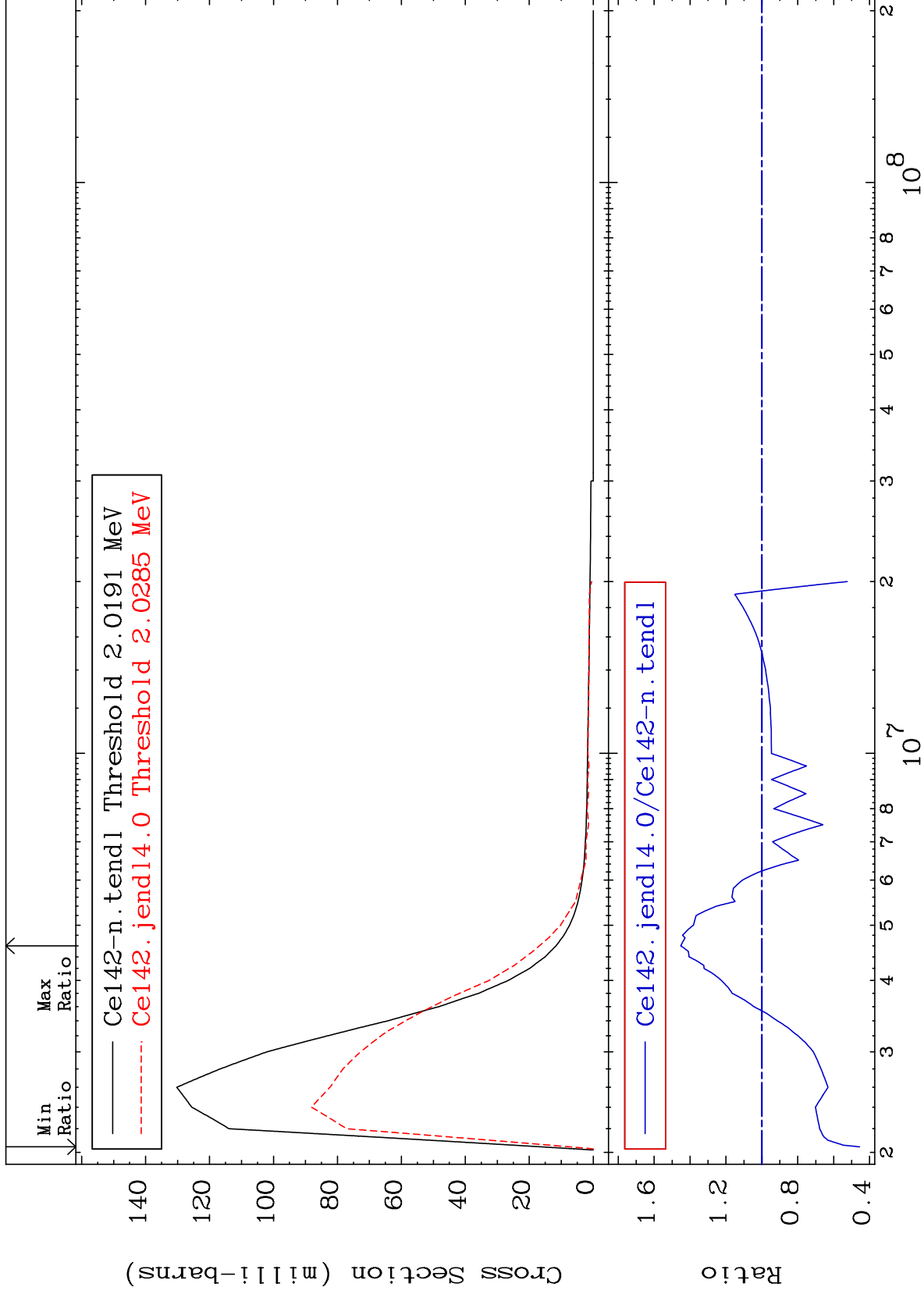
Incident Energy (eV)

58-Ce-142

MAT 5843

2.005 MeV (n,n') Level
Cross Section

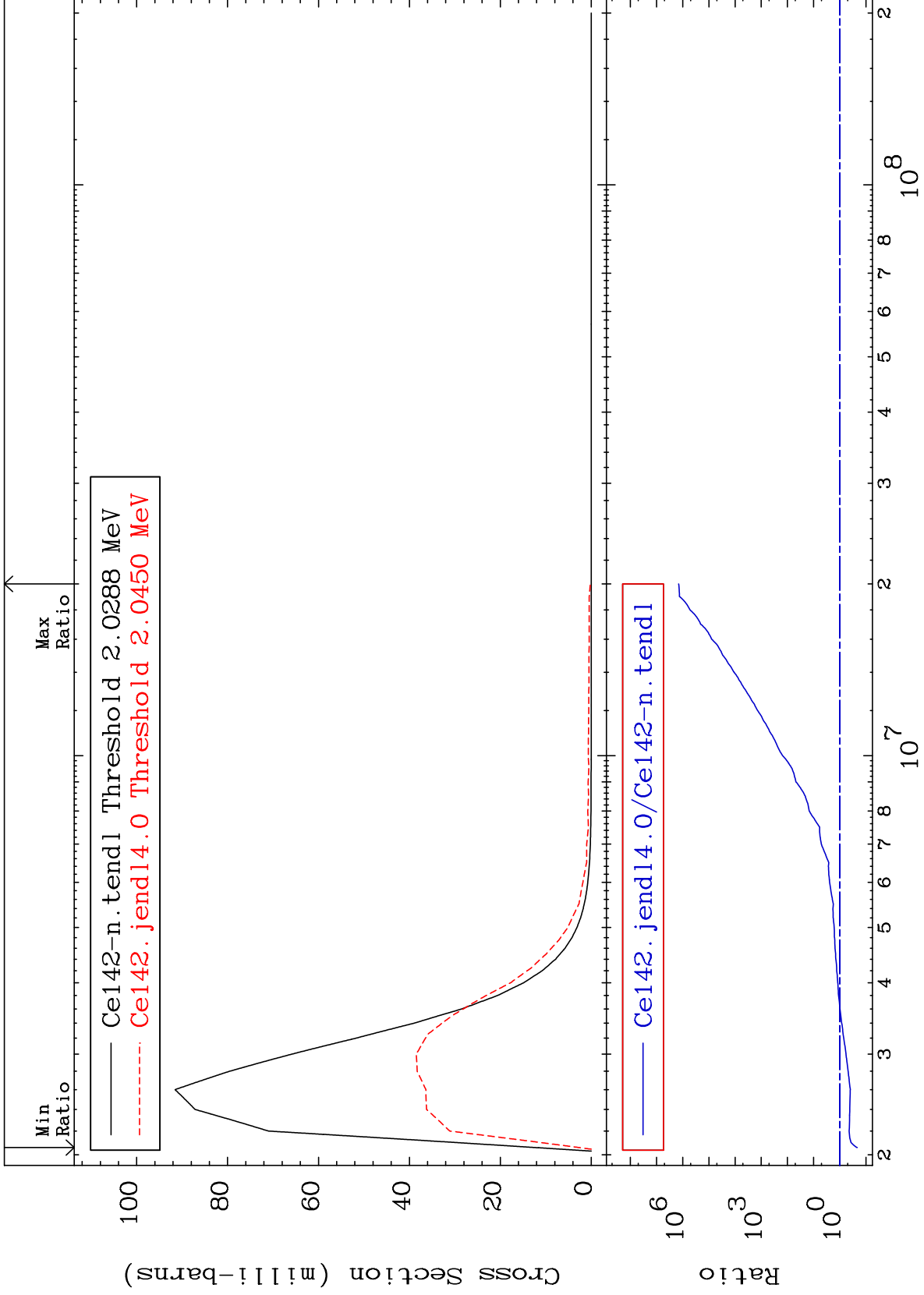
58-Ce-142
-54.41 To 45.18 %



MAT 5843

2.015 MeV (n,n') Level
Cross Section

58-Ce-142
-78.46 To 9999. %



16

Incident Energy (eV)

58-Ce-142

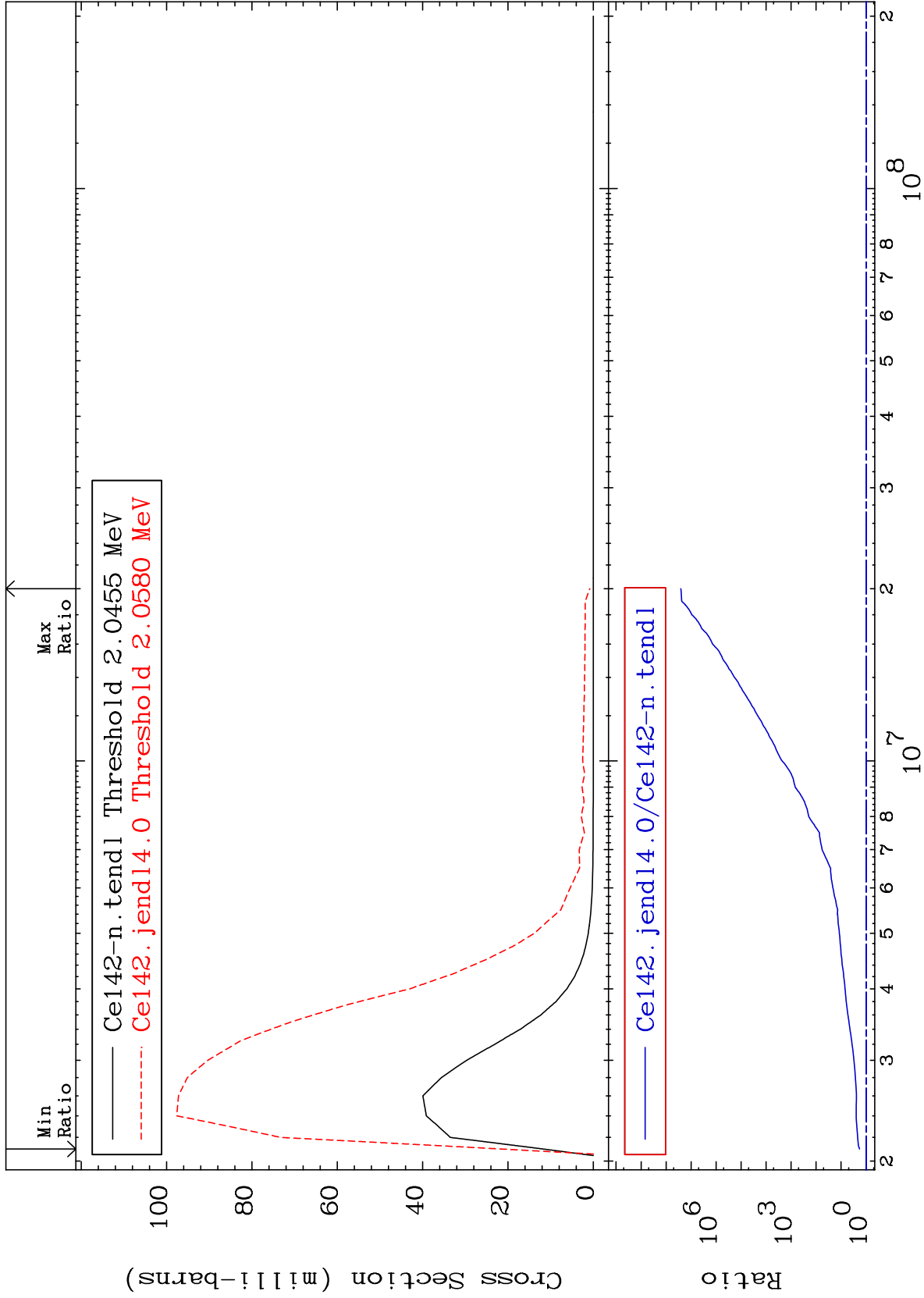
MAT 5843

2.031 MeV (n,n') Level

58-Ce-142

82.99 To 9999. %

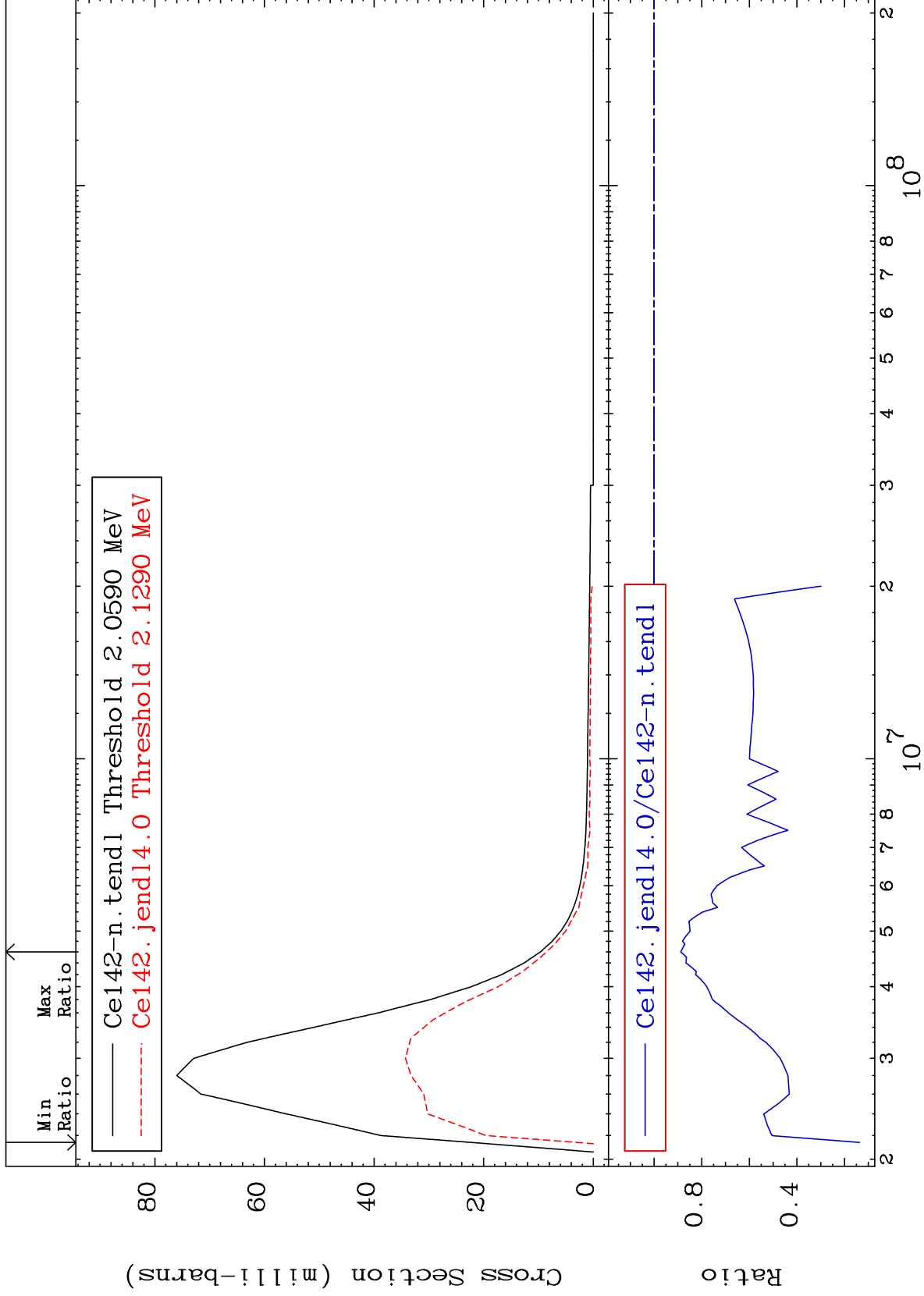
Cross Section



MAT 5843

2.045 MeV (n,n') Level
Cross Section

58-Ce-142
-86.30 To -11.20%



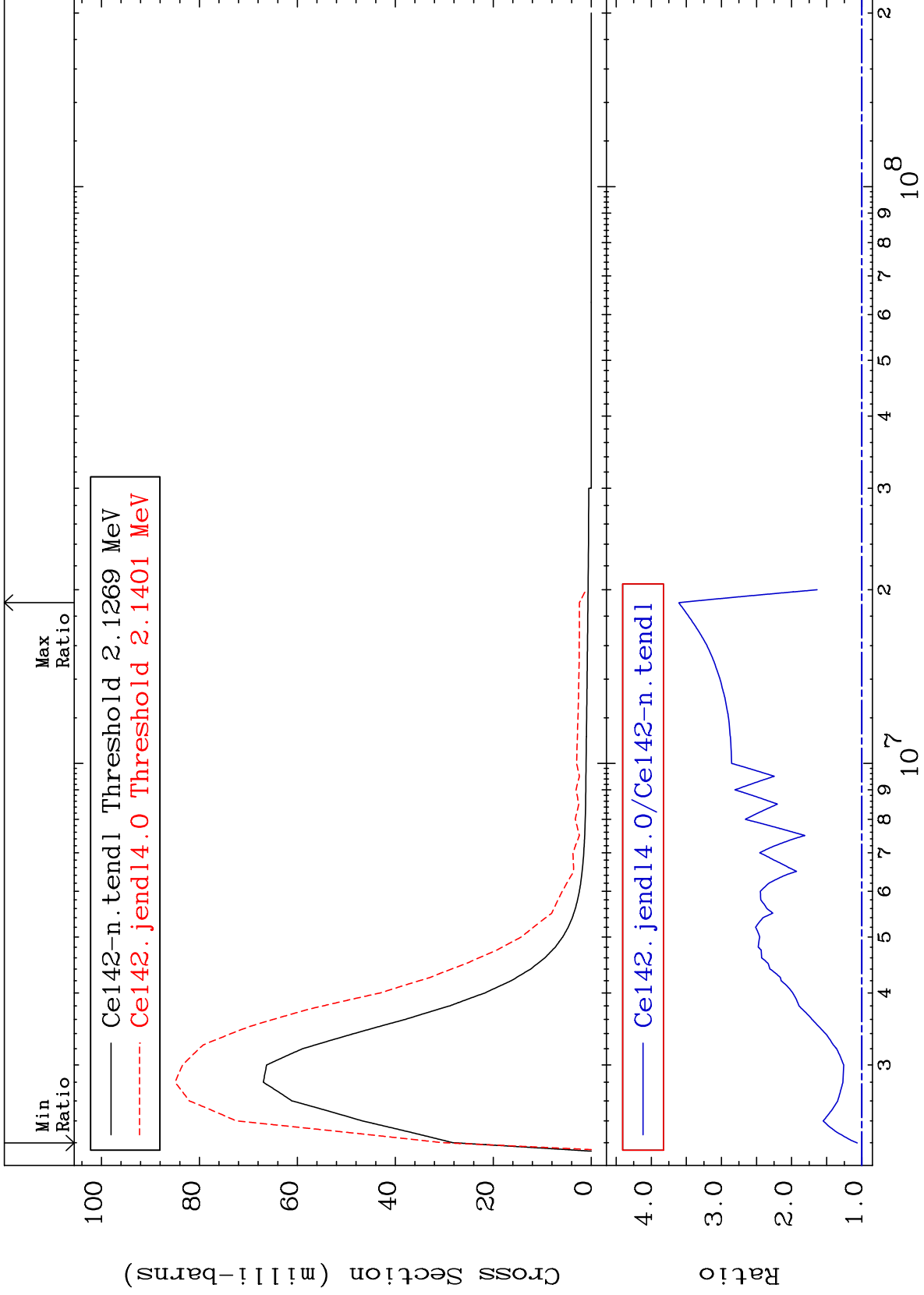
18

58-Ce-142

MAT 5843

2.112 MeV (n,n') Level
Cross Section

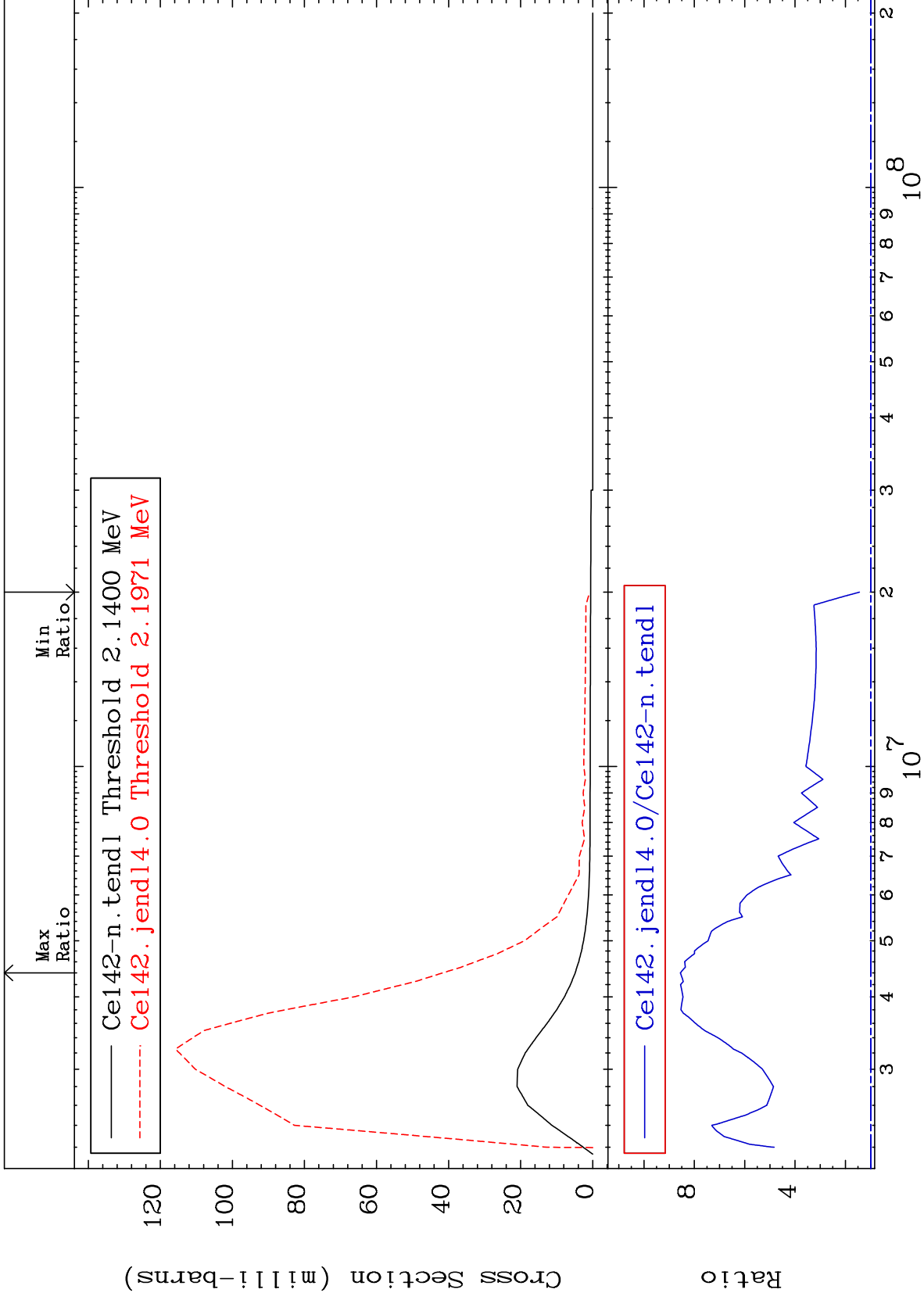
58-Ce-142
6.476 To 261.0 %



MAT 5843

2.125 MeV (n,n') Level
Cross Section

58-Ce-142
44.34 To 755.6 %



20

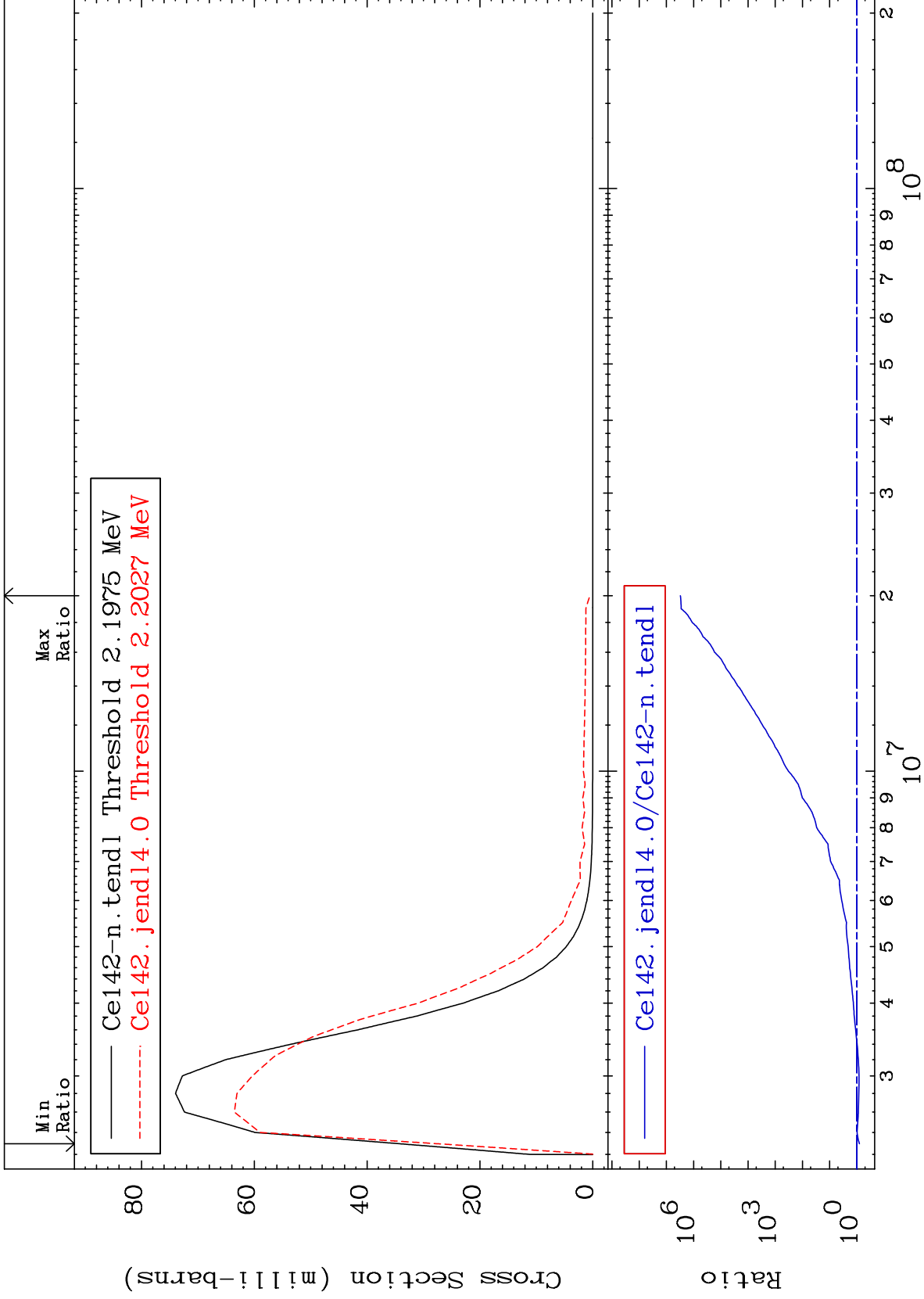
Incident Energy (eV)

58-Ce-142

MAT 5843

2.182 MeV (n,n') Level
Cross Section

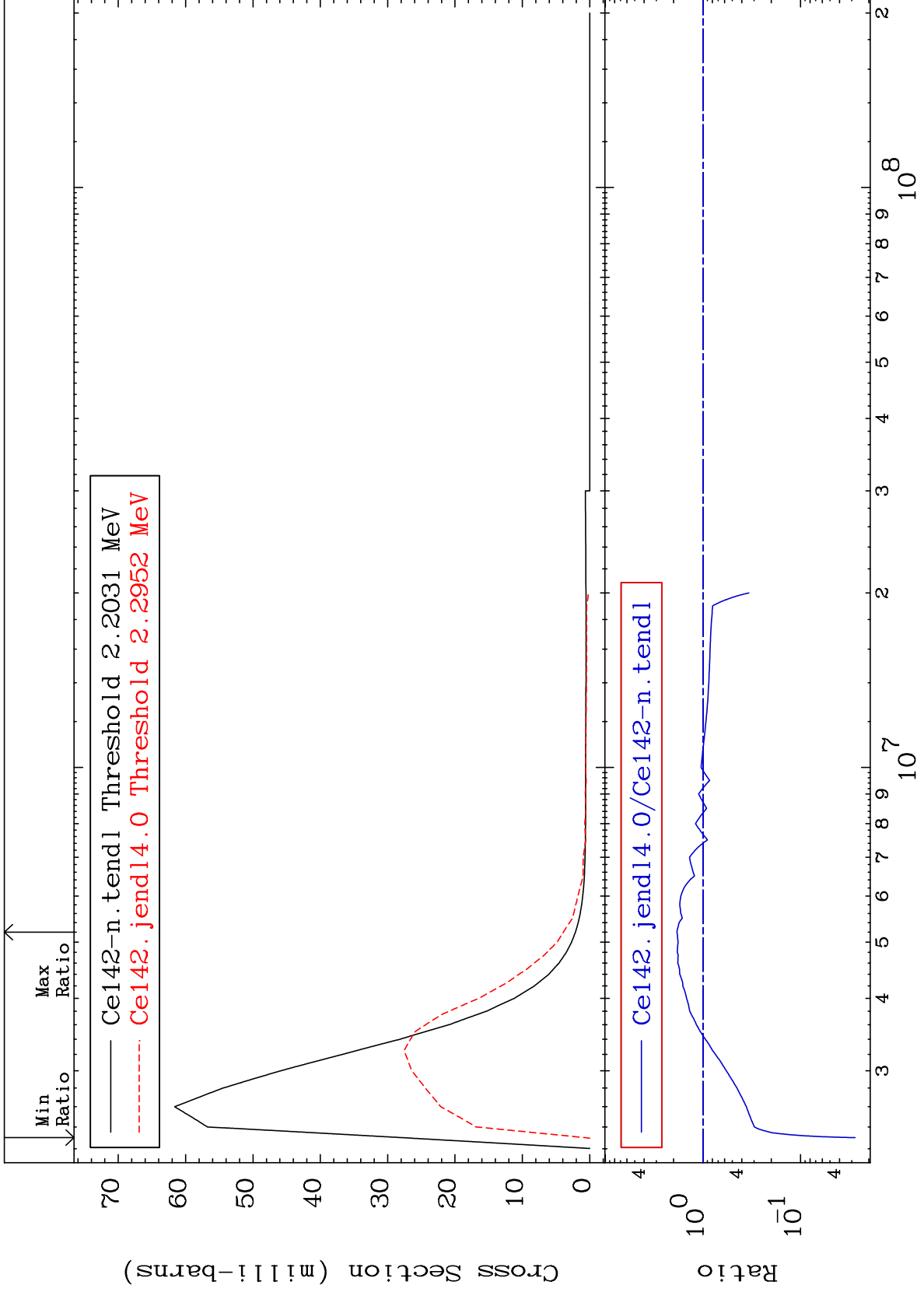
58-Ce-142
-19.49 To 9999. %



MAT 5843

2.188 MeV (n,n') Level
Cross Section

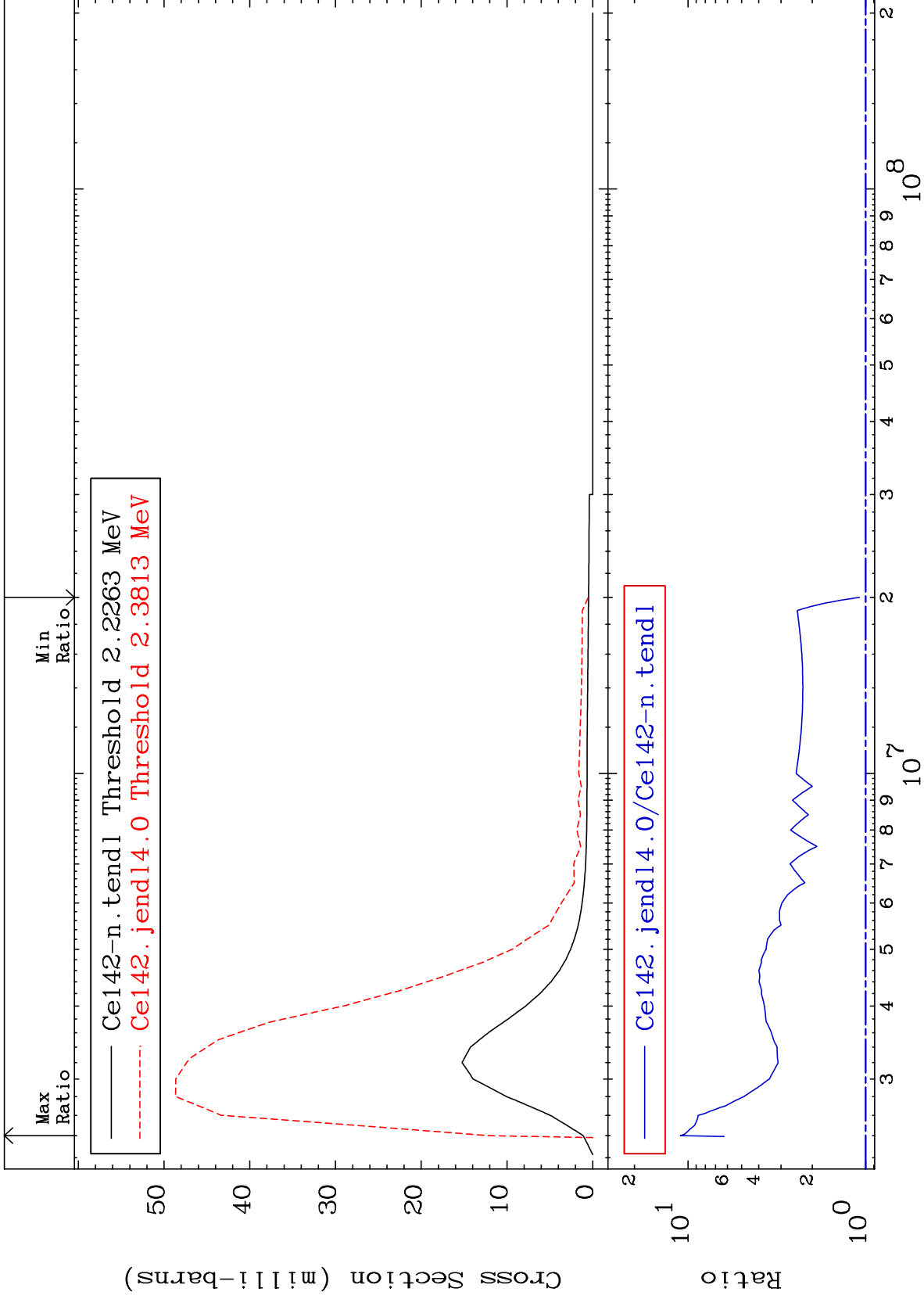
58-Ce-142
-97.23 To 84.63 %



MAT 5843

2.211 MeV (n,n') Level
Cross Section

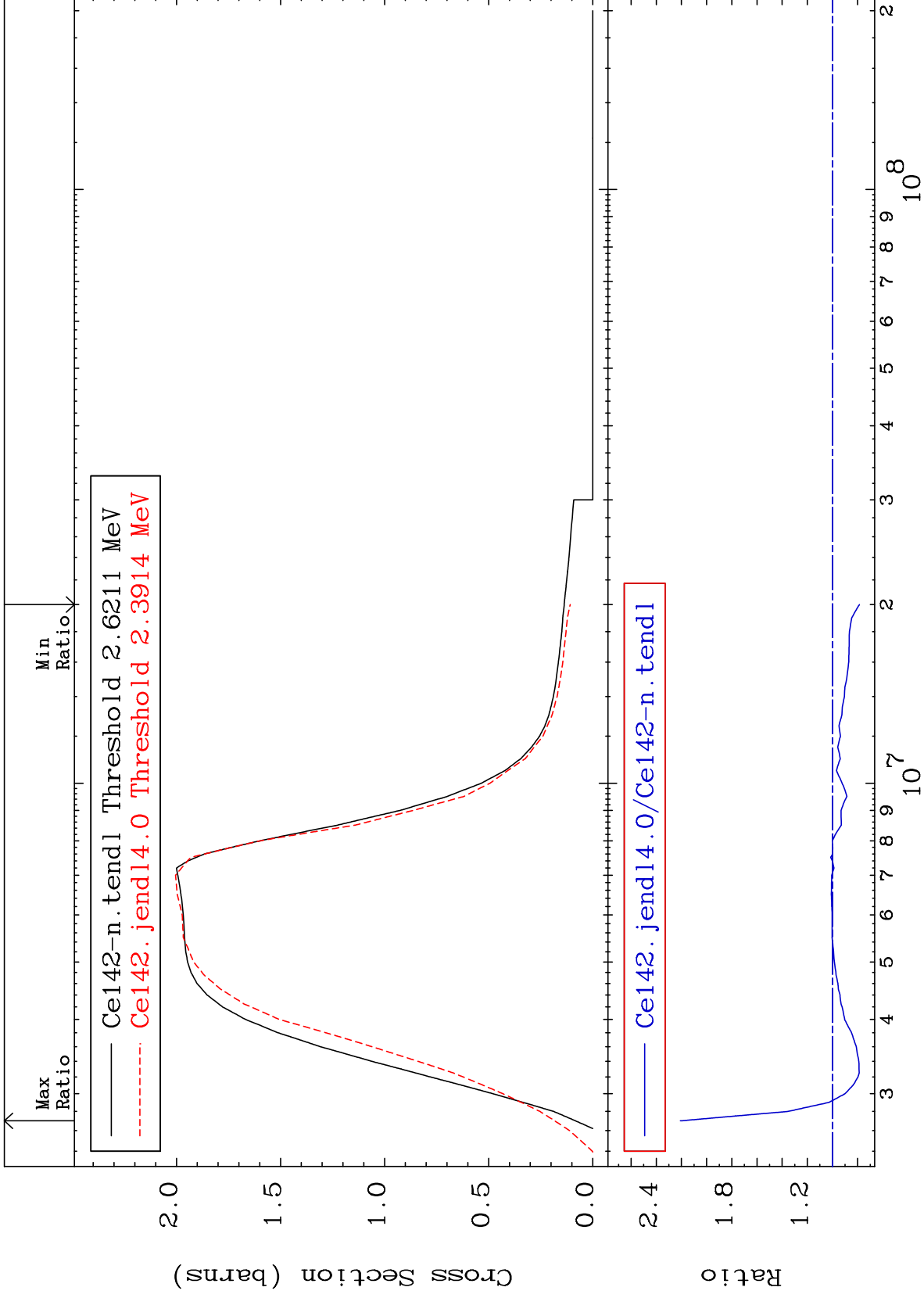
58-Ce-142
8.561 To 1005. %



MAT 5843

(n, n') Continuum
Cross Section

58-Ce-142
-21.42 To 120.9 %



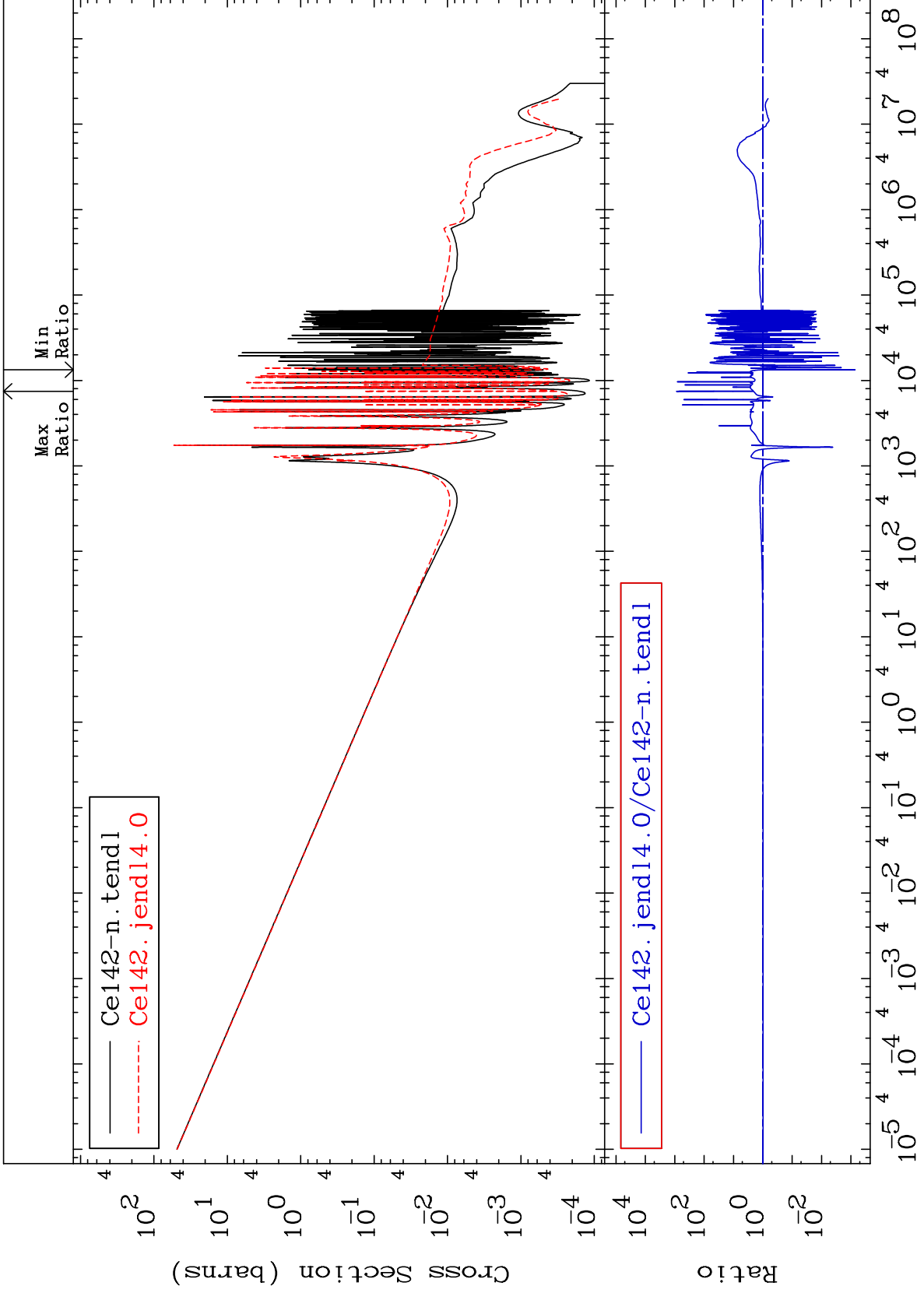
MAT 5843

(n, γ)

58-Ce-142

Cross Section

-99.93 To 9999. %



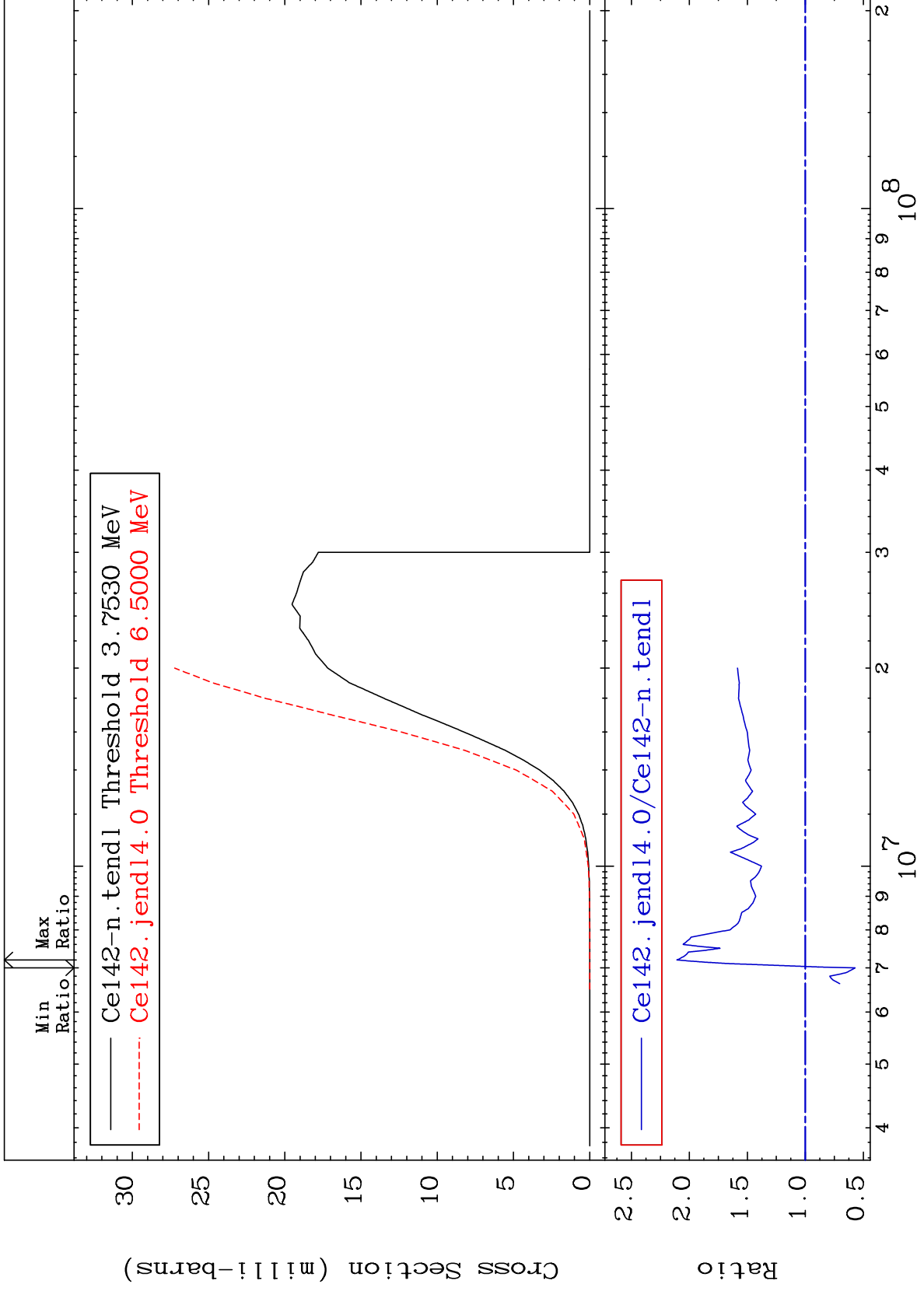
MAT 5843

(n,p)

58-Ce-142

Cross Section

-42.91 To 110.8 %



26

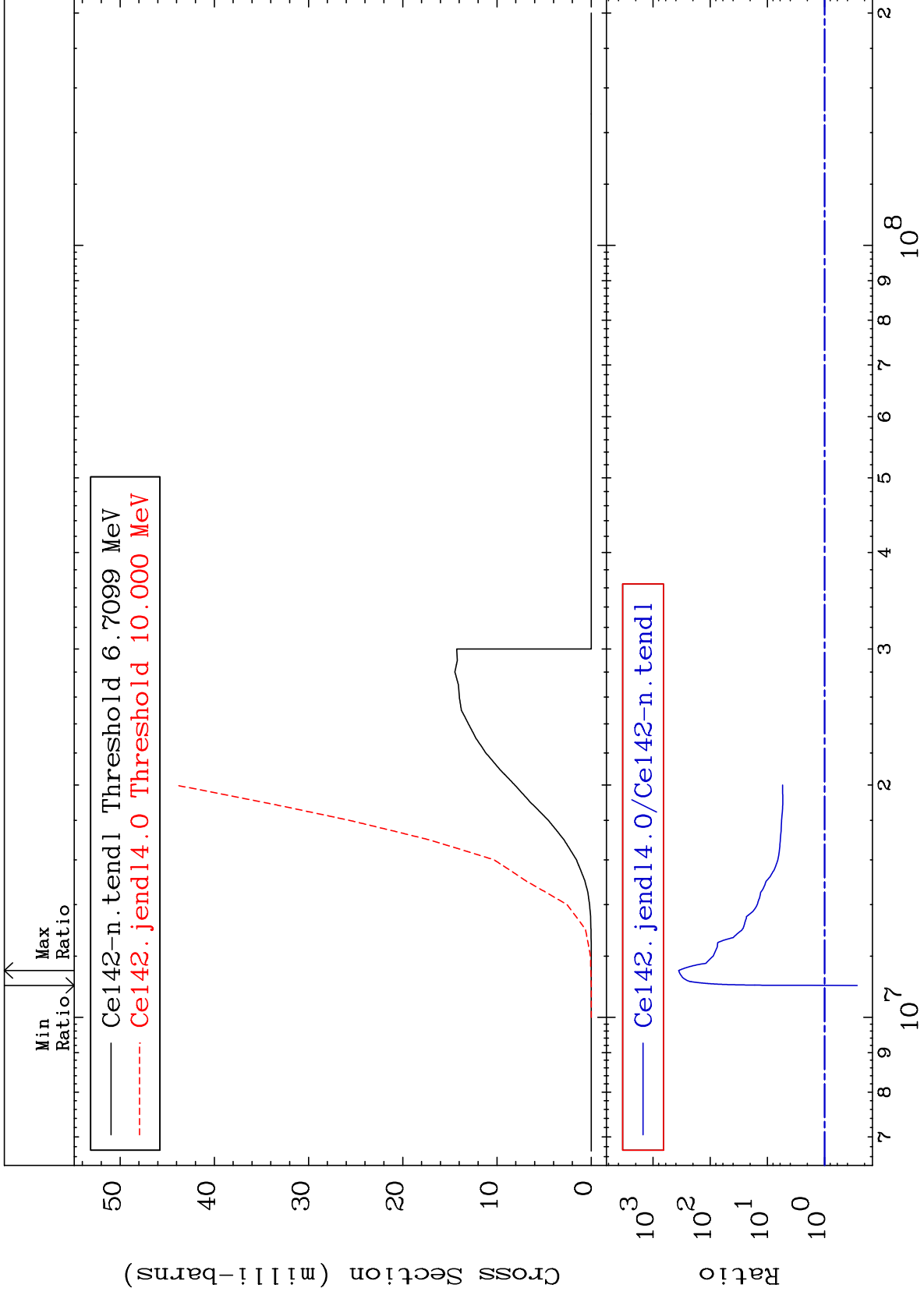
Incident Energy (eV)

58-Ce-142

MAT 5843

(n, d)
Cross Section

58-Ce-142
-73.09 To 9999. %



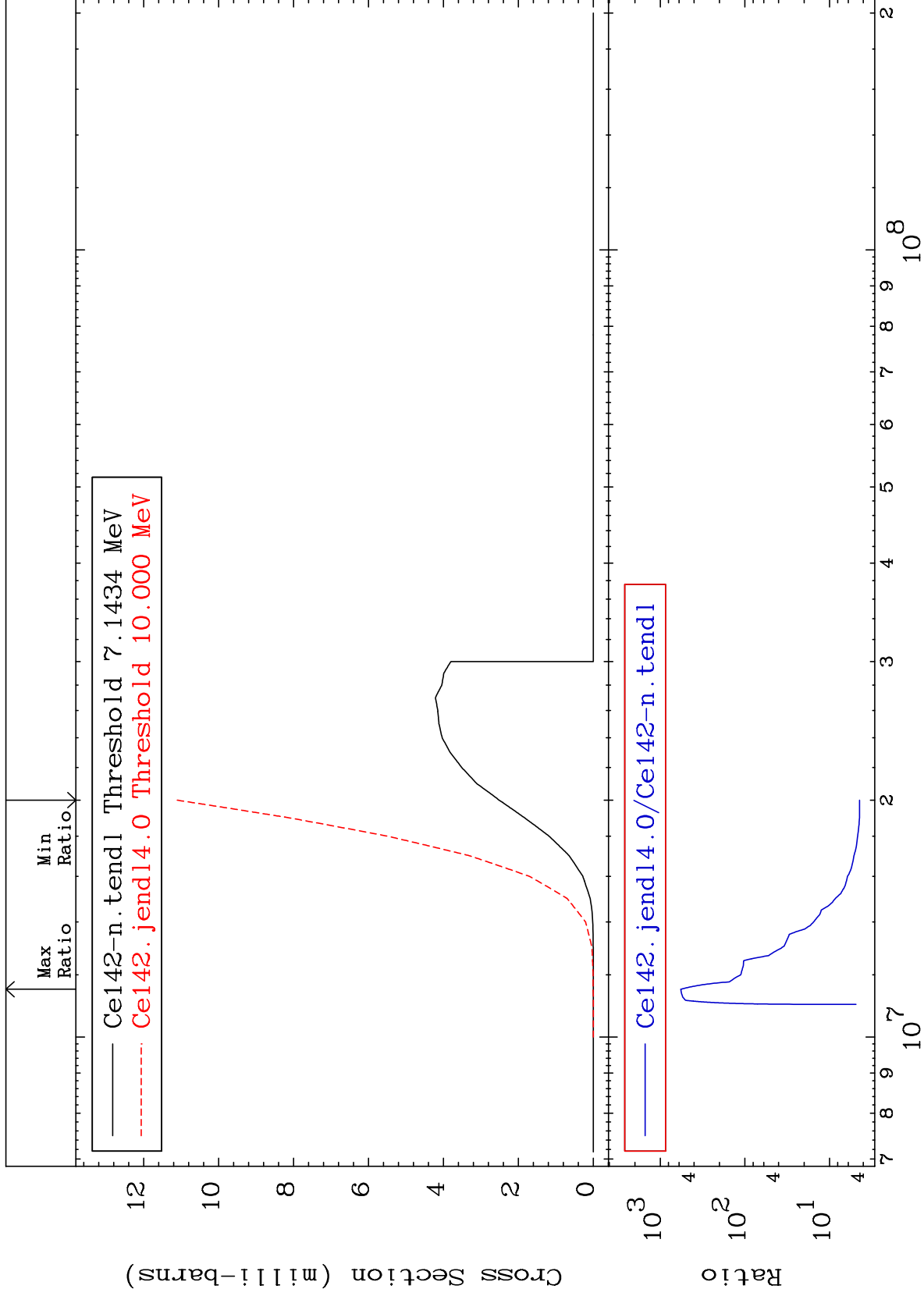
MAT 5843

(n, t)

58-Ce-142

Cross Section

342.4 To 9999. %



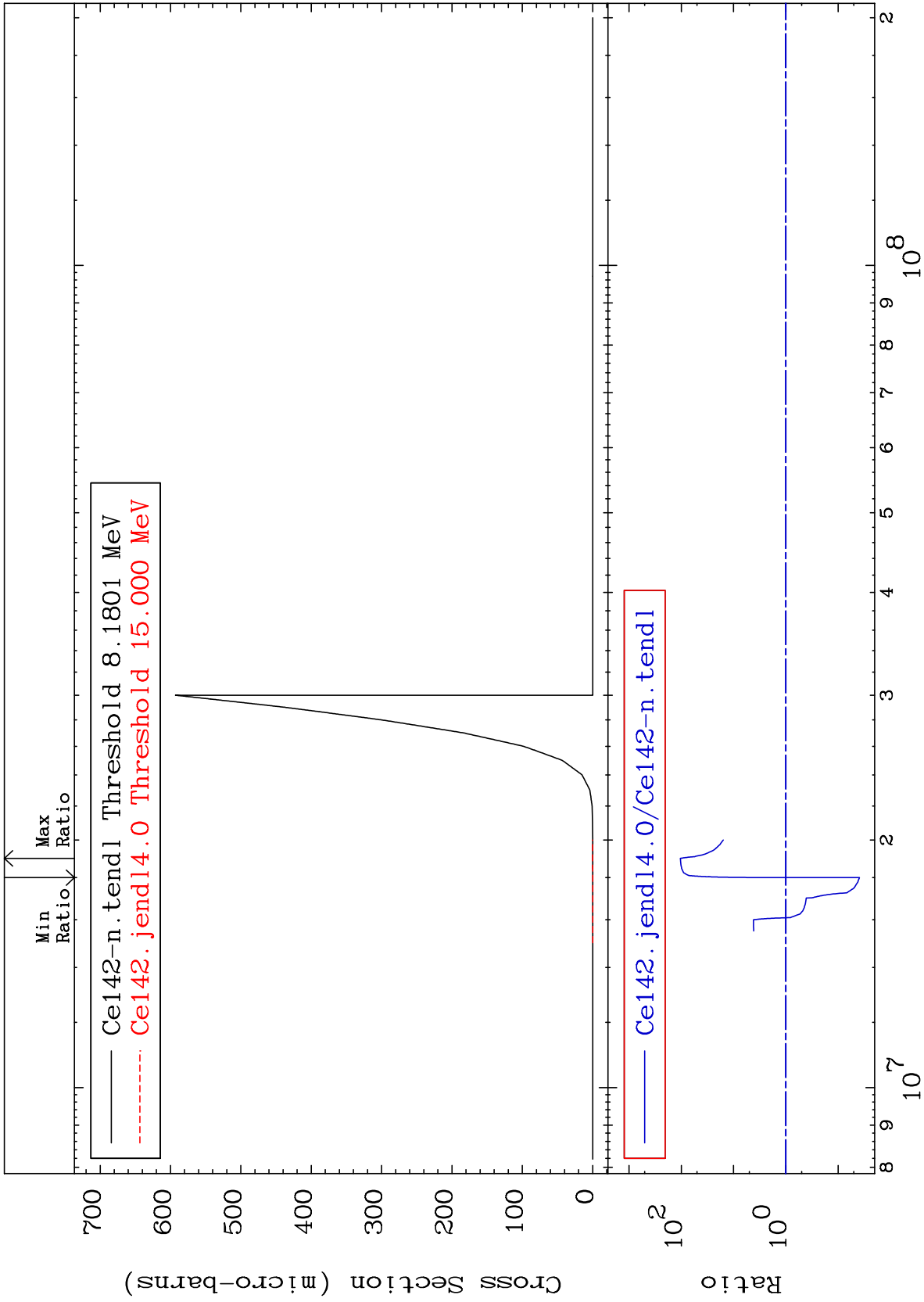
MAT 5843

(n, He-3)

58-Ce-142

Cross Section

-96.09 To 9999. %



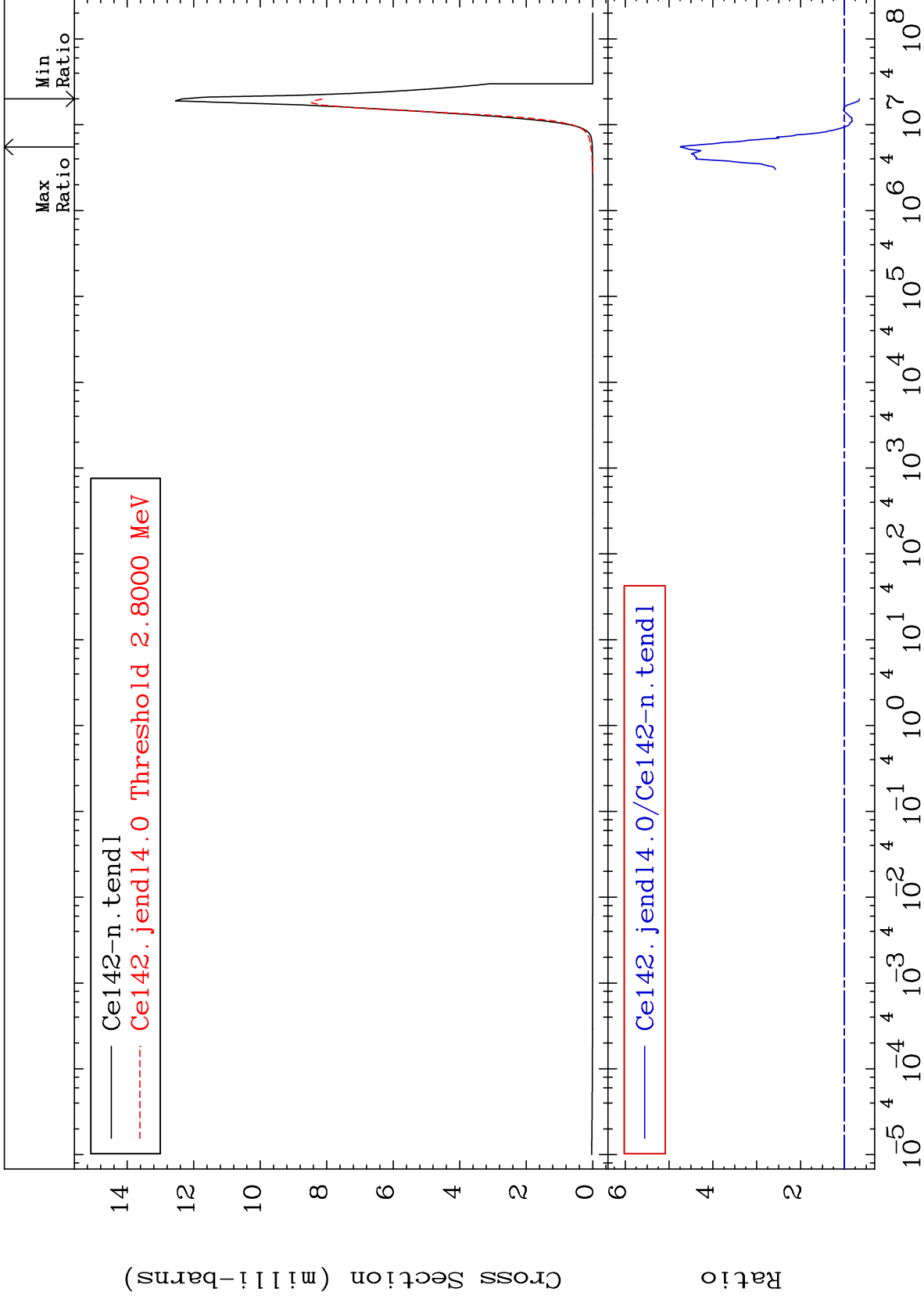
29

58-Ce-142

MAT 5843

(n, α)
Cross Section

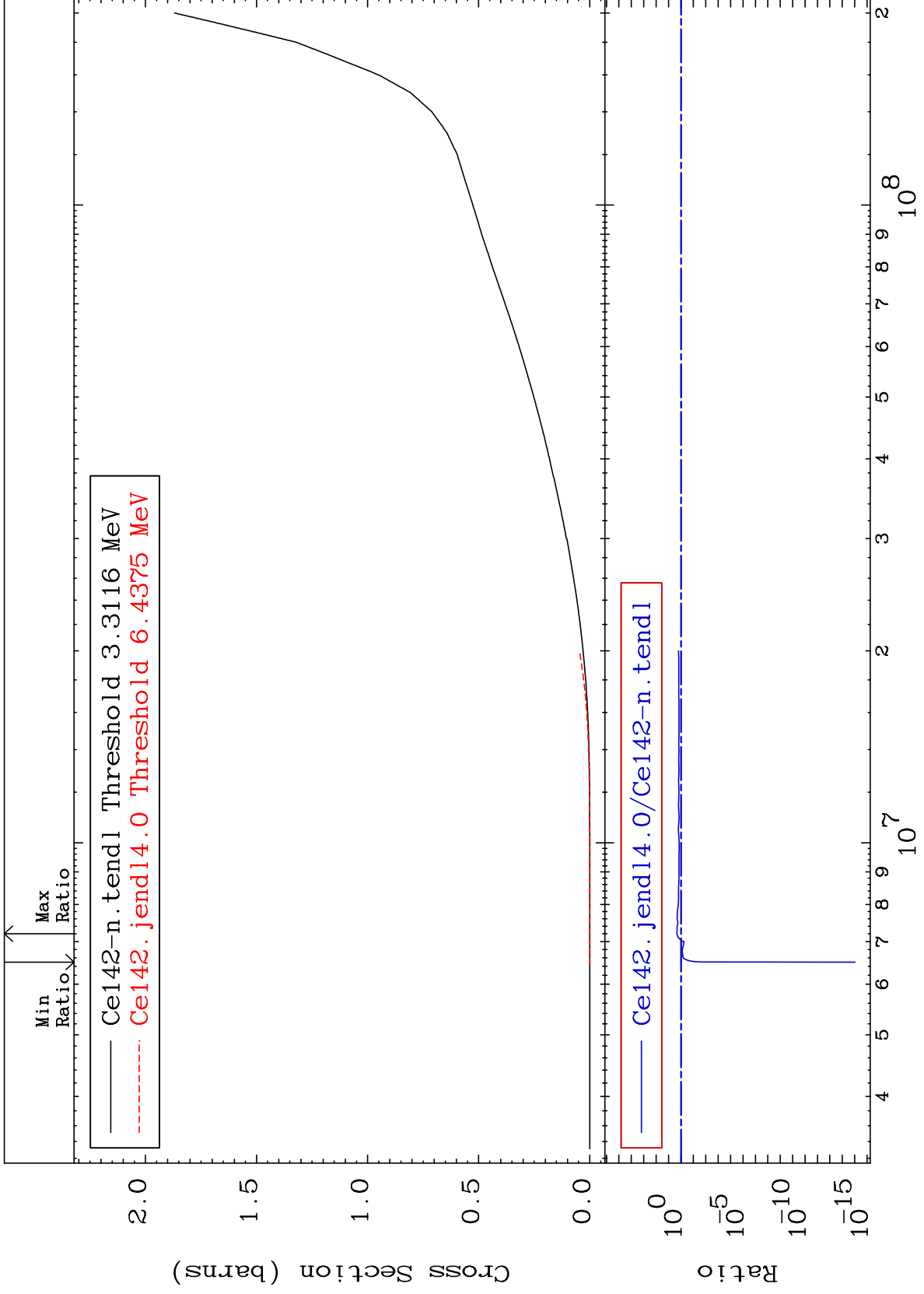
58-Ce-142
-34.36 To 374.2 %



MAT 5843

Hydrogen Production
Cross Section

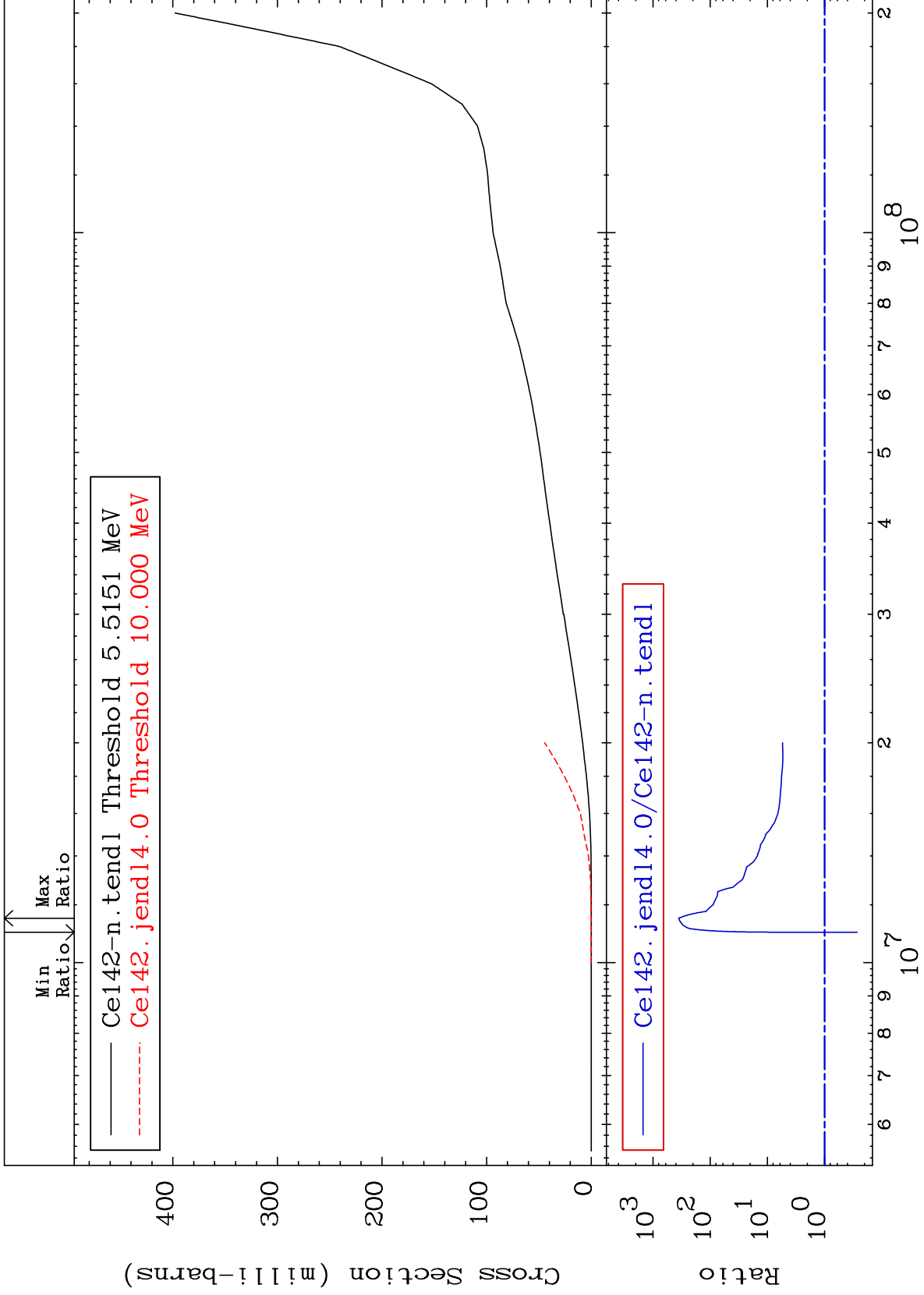
58-Ce-142
-100.0 To 110.8 %



MAT 5843

Deuterium Production
Cross Section

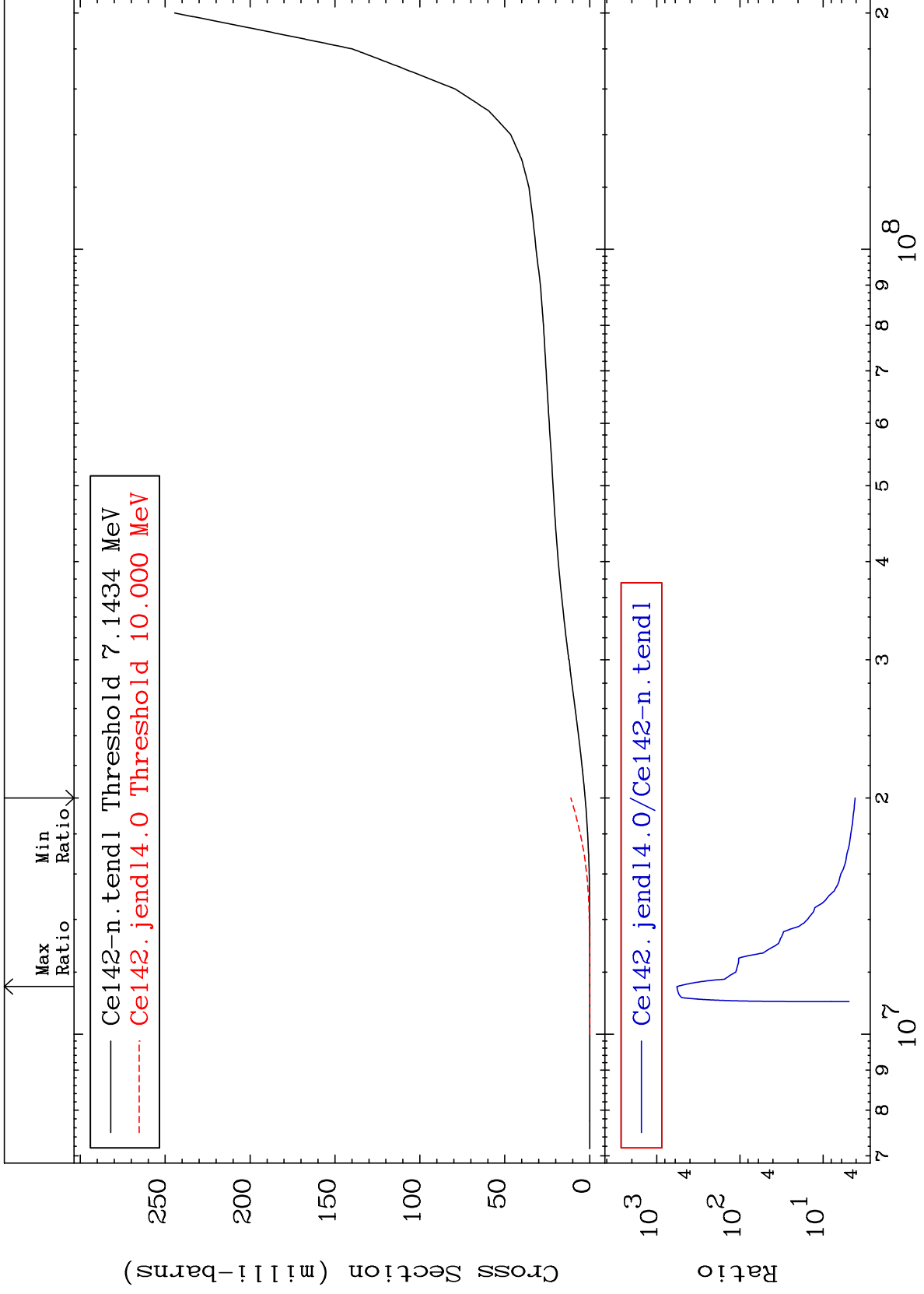
58-Ce-142
-73.09 To 9999. %



MAT 5843

Tritium Production
Cross Section

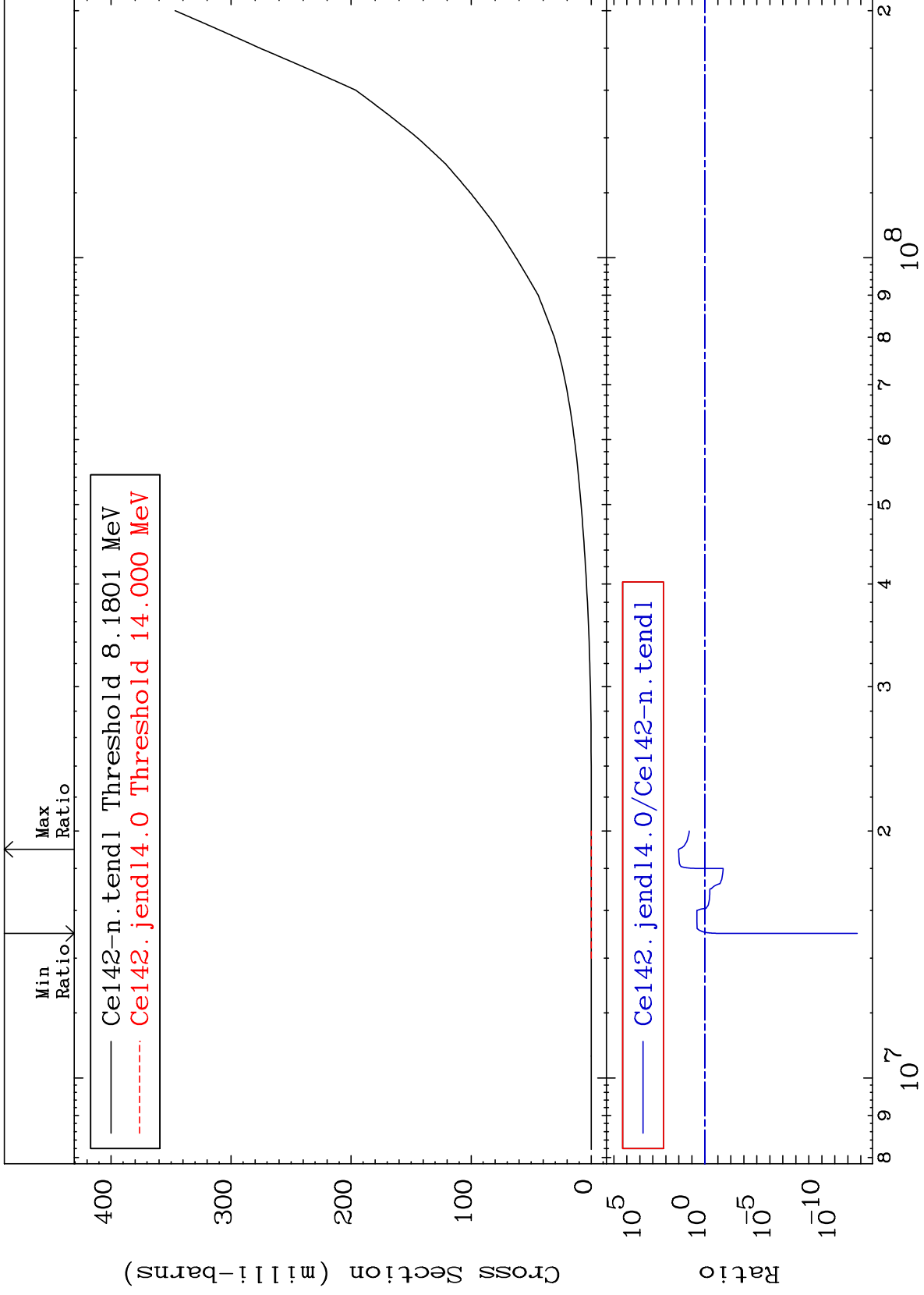
58-Ce-142
312.1 To 9999. %



MAT 5843

He-3 Production
Cross Section

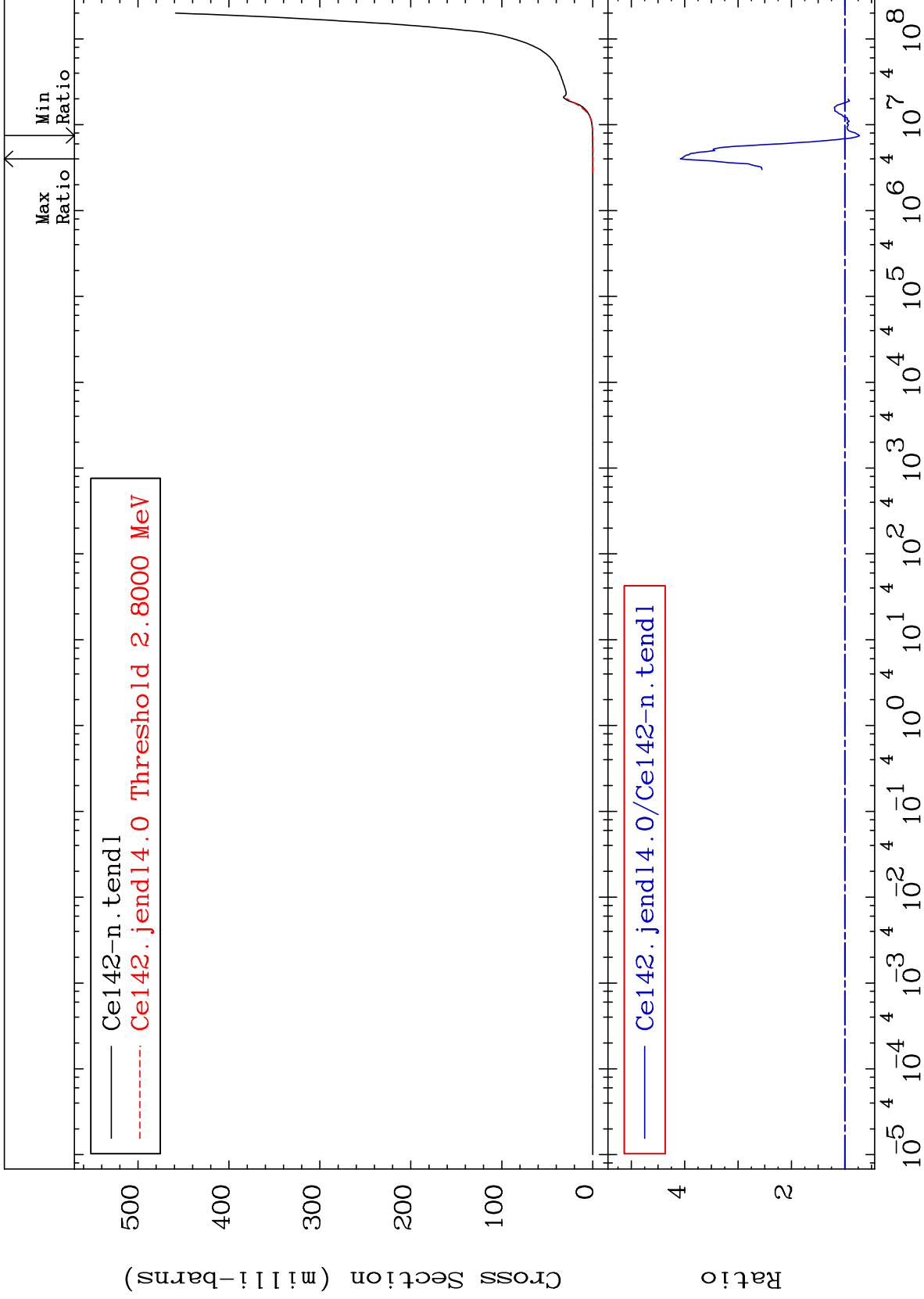
58-Ce-142
-100.0 To 9999. %



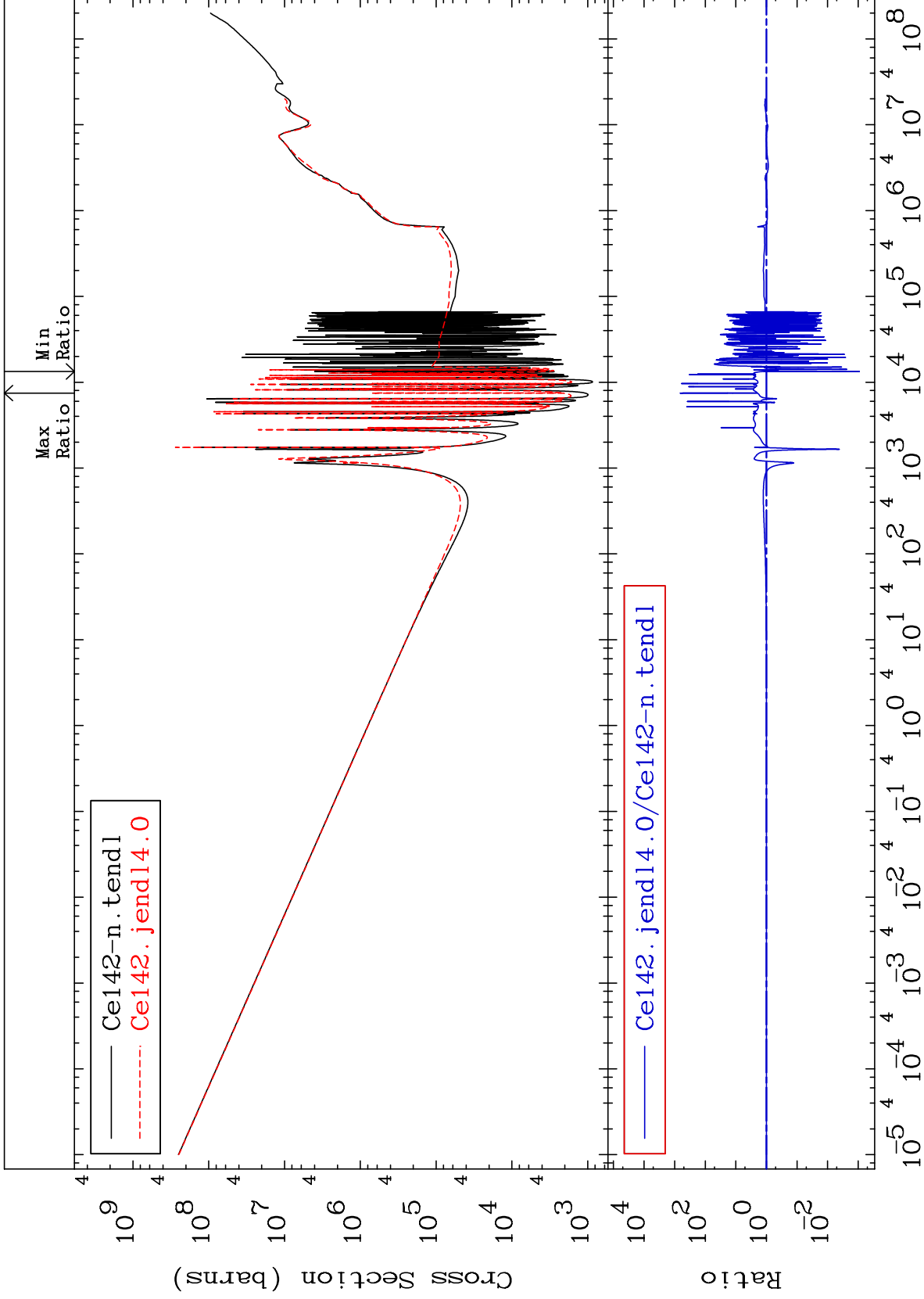
MAT 5843

He-4 Production
Cross Section

58-Ce-142
-27.22 To 308.0 %



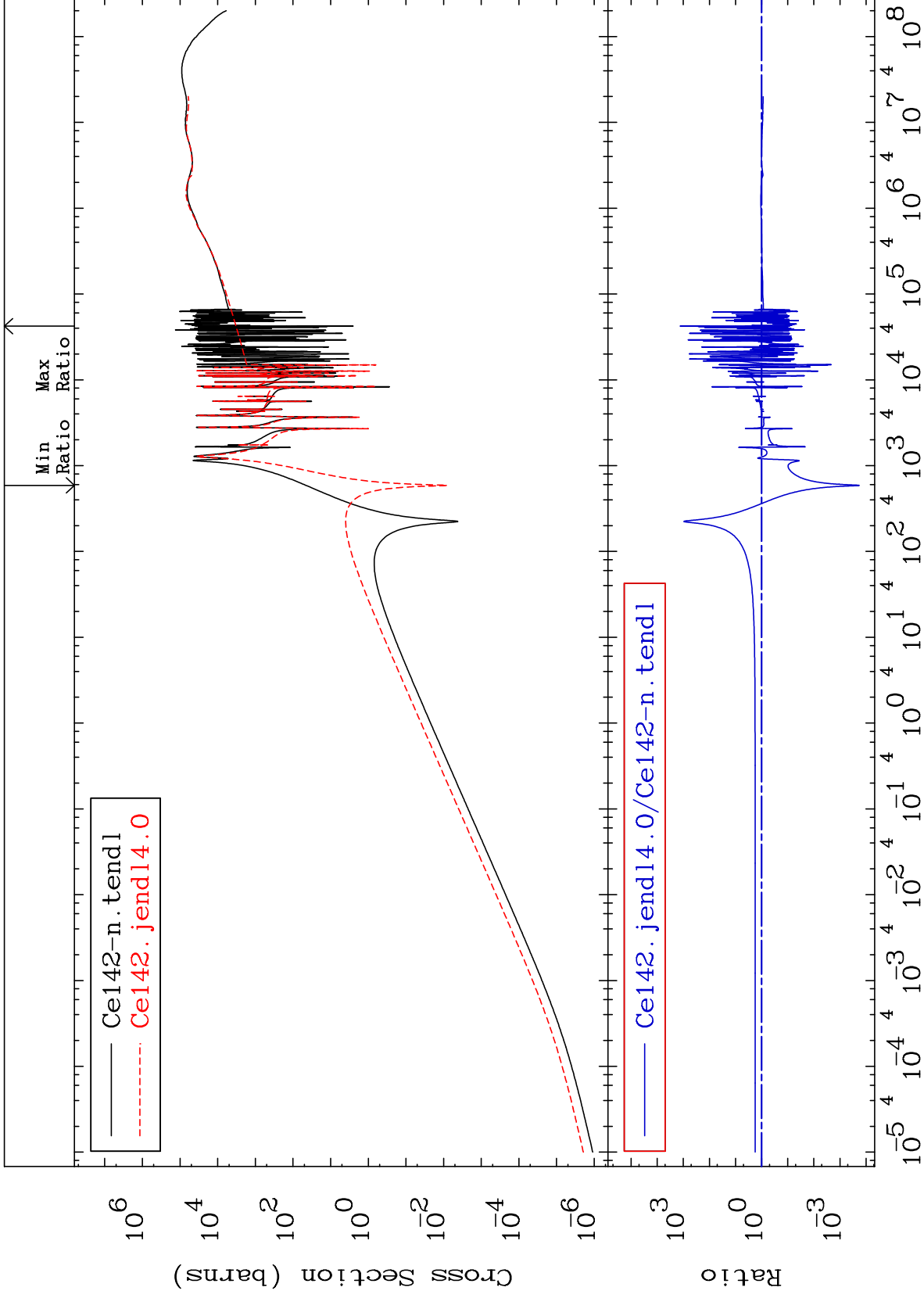
35

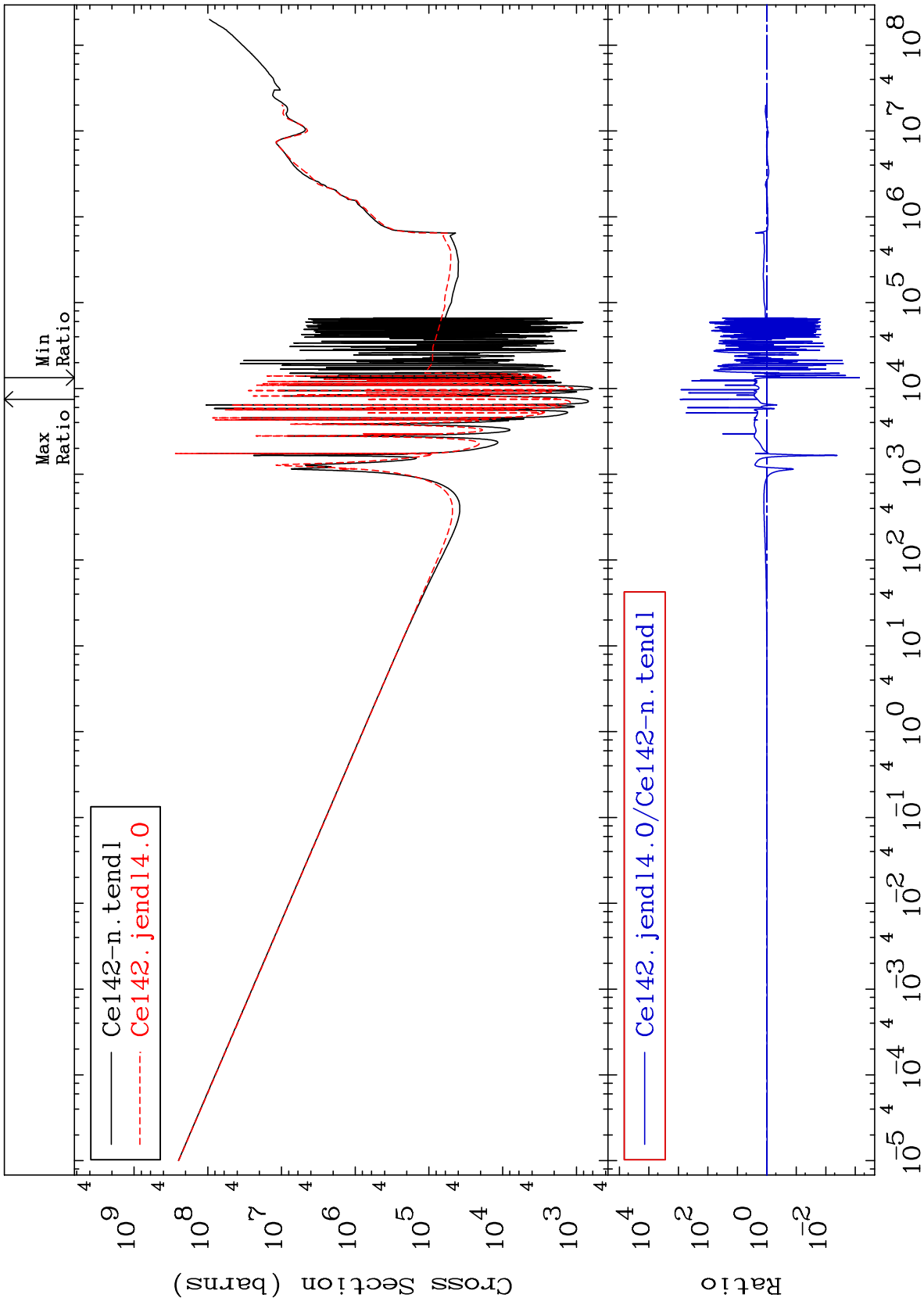


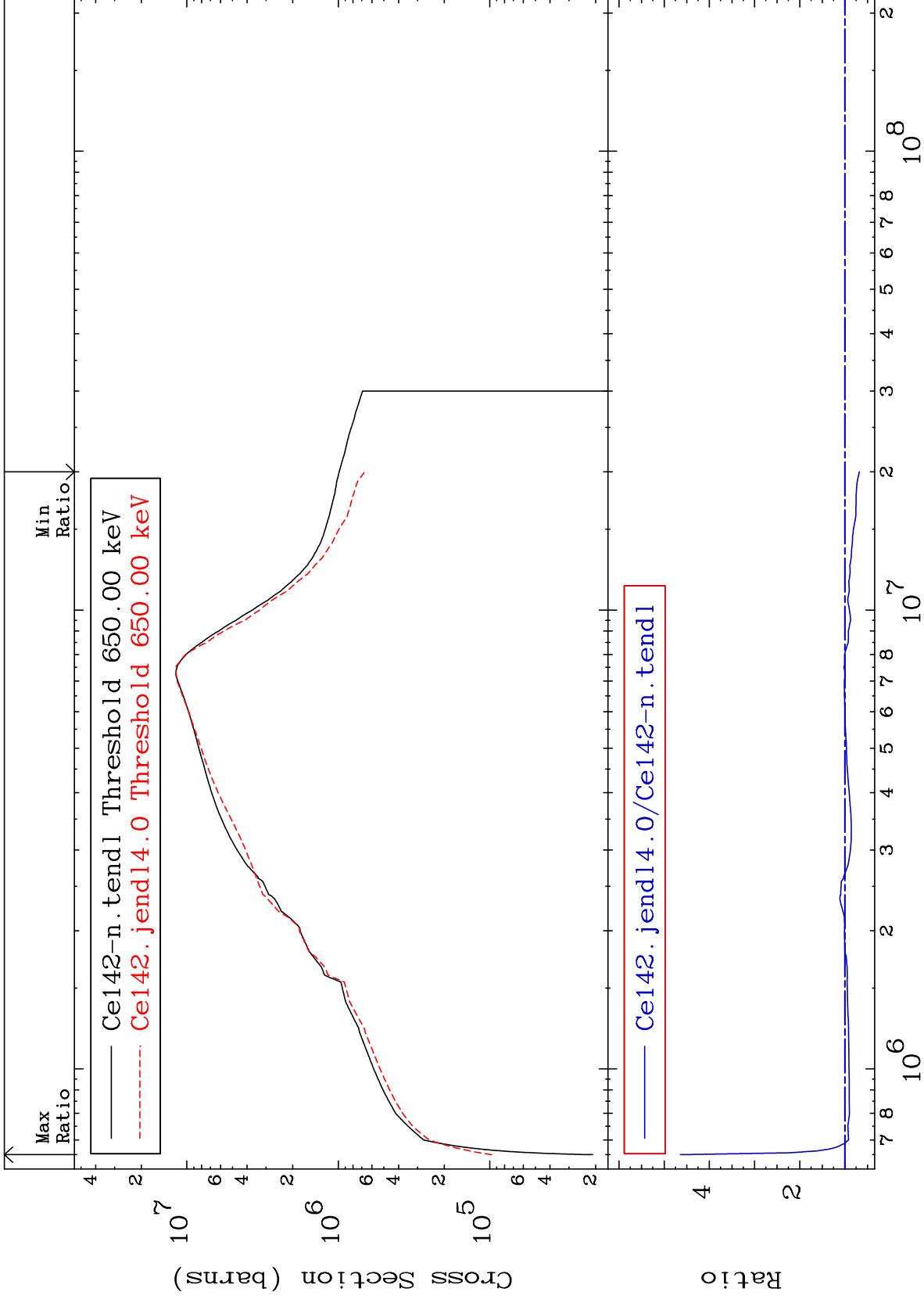
MAT 5843

Kerma elastic
Cross Section

58-Ce-142
-99.98 To 9999. %



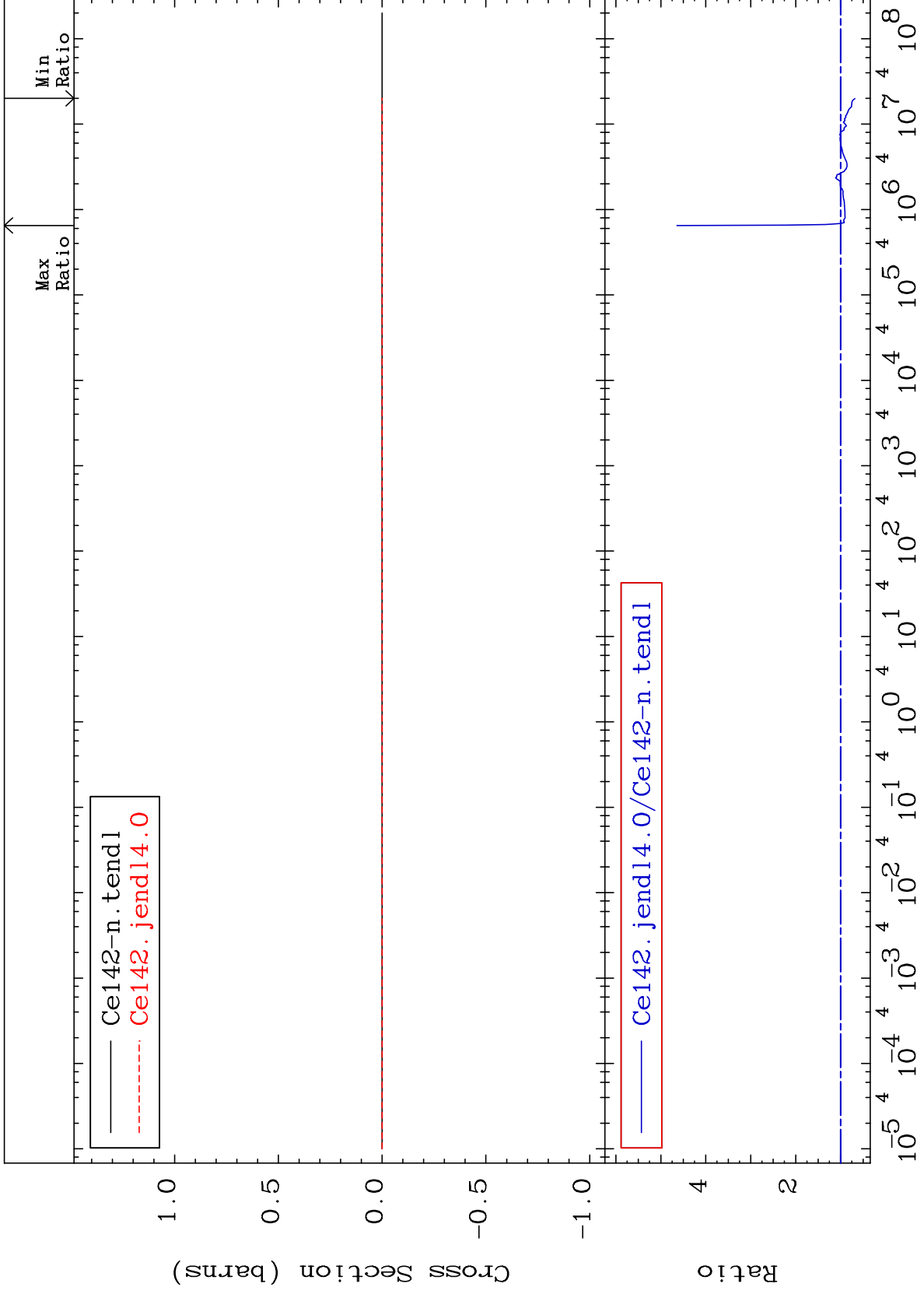




MAT 5843

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

58-Ce-142
-32.16 To 364.2 %



Incident Energy (eV)

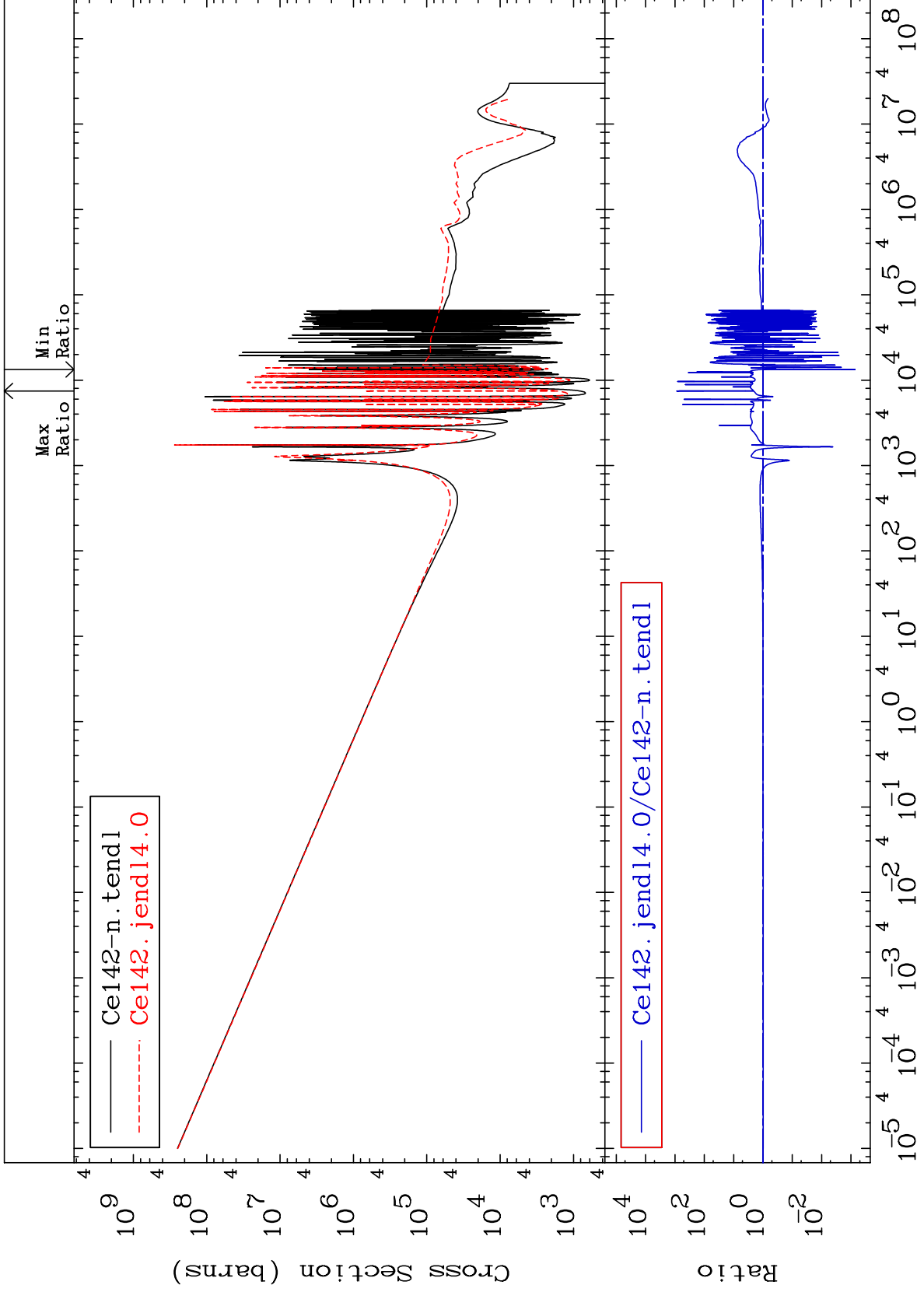
58-Ce-142

40

MAT 5843

Kerma capture (mt102)
Cross Section

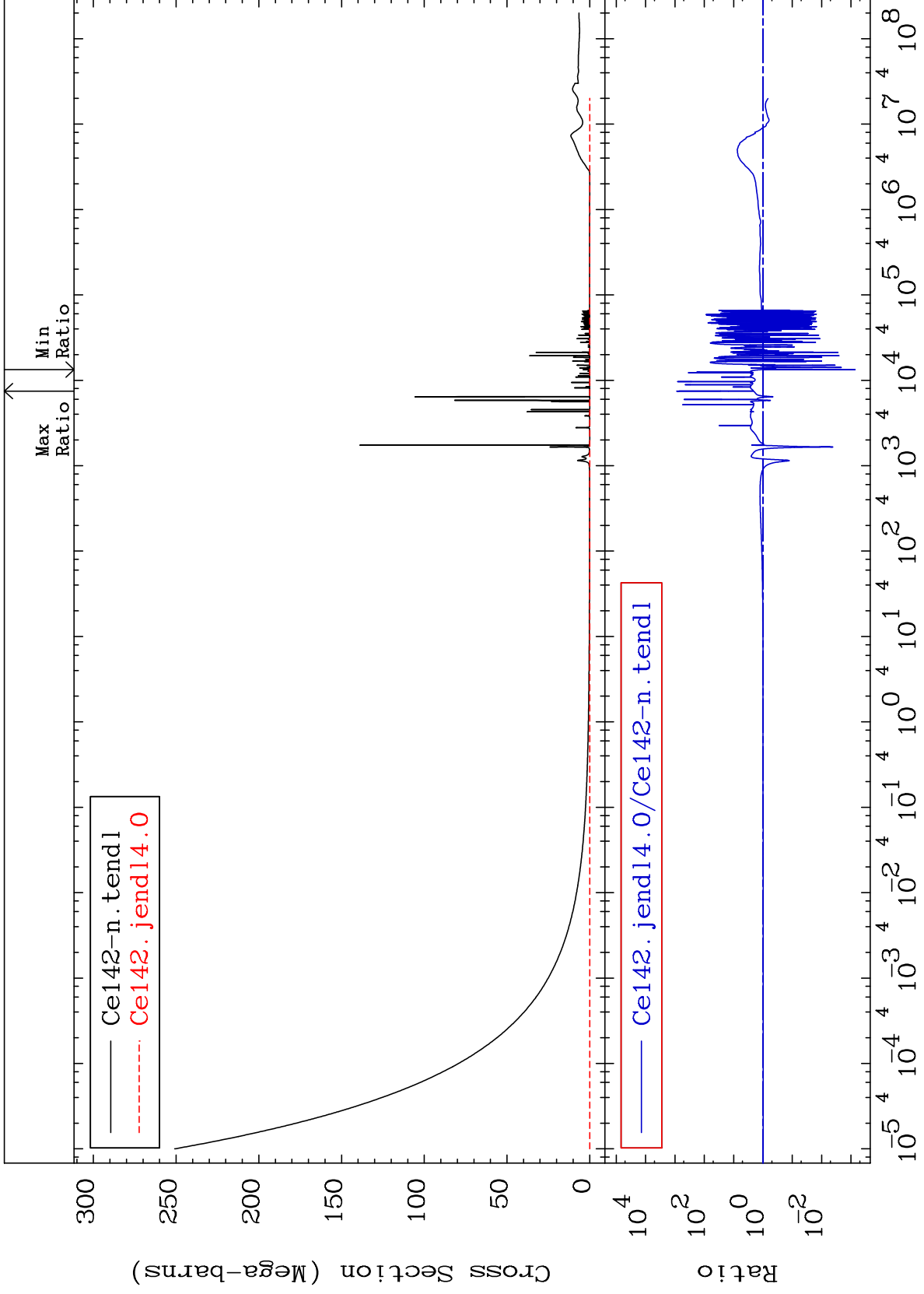
58-Ce-142
-99.93 To 9999. %



MAT 5843

Total photon (eV-barns)
Cross Section

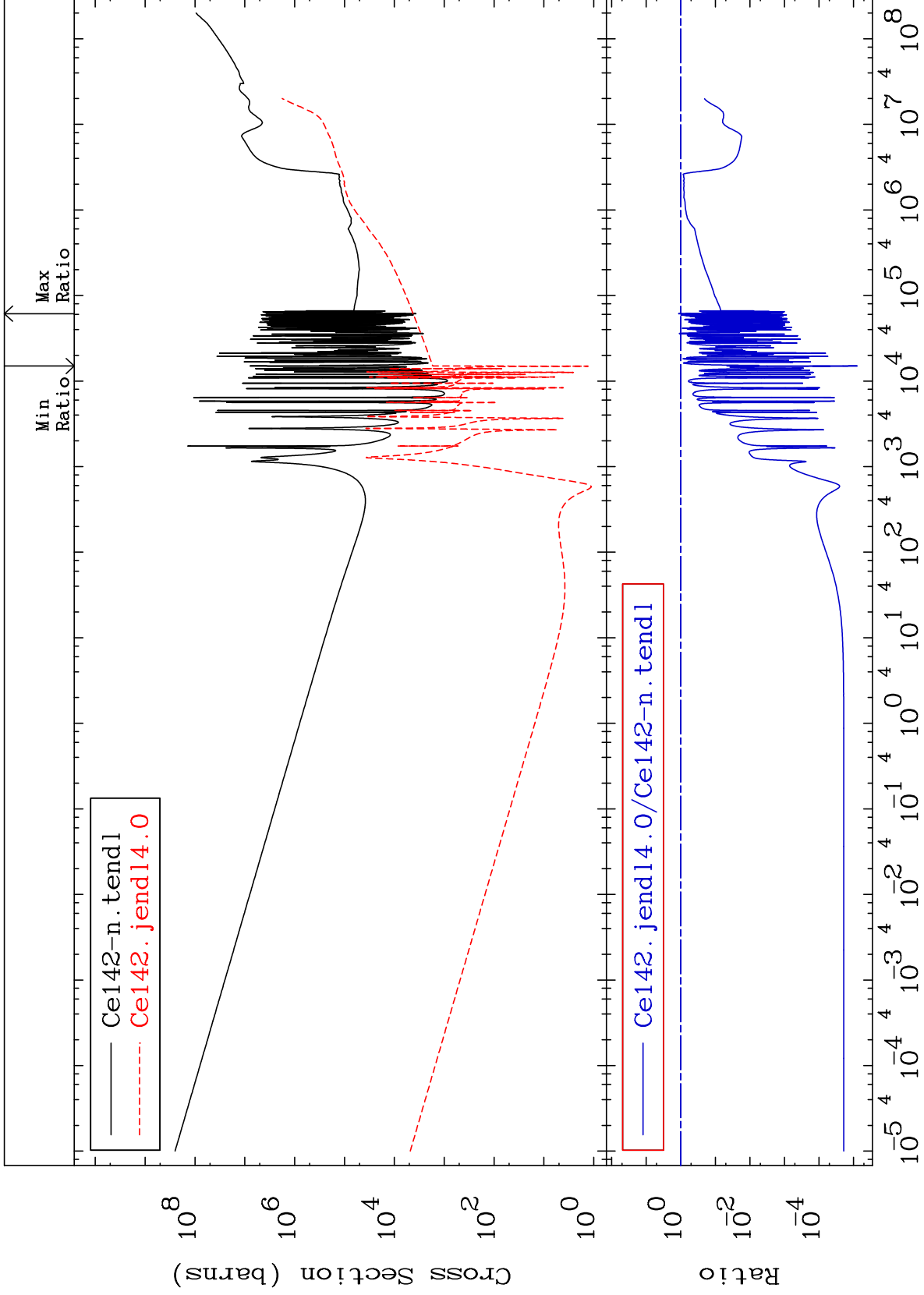
58-Ce-142
-99.93 To 9999. %

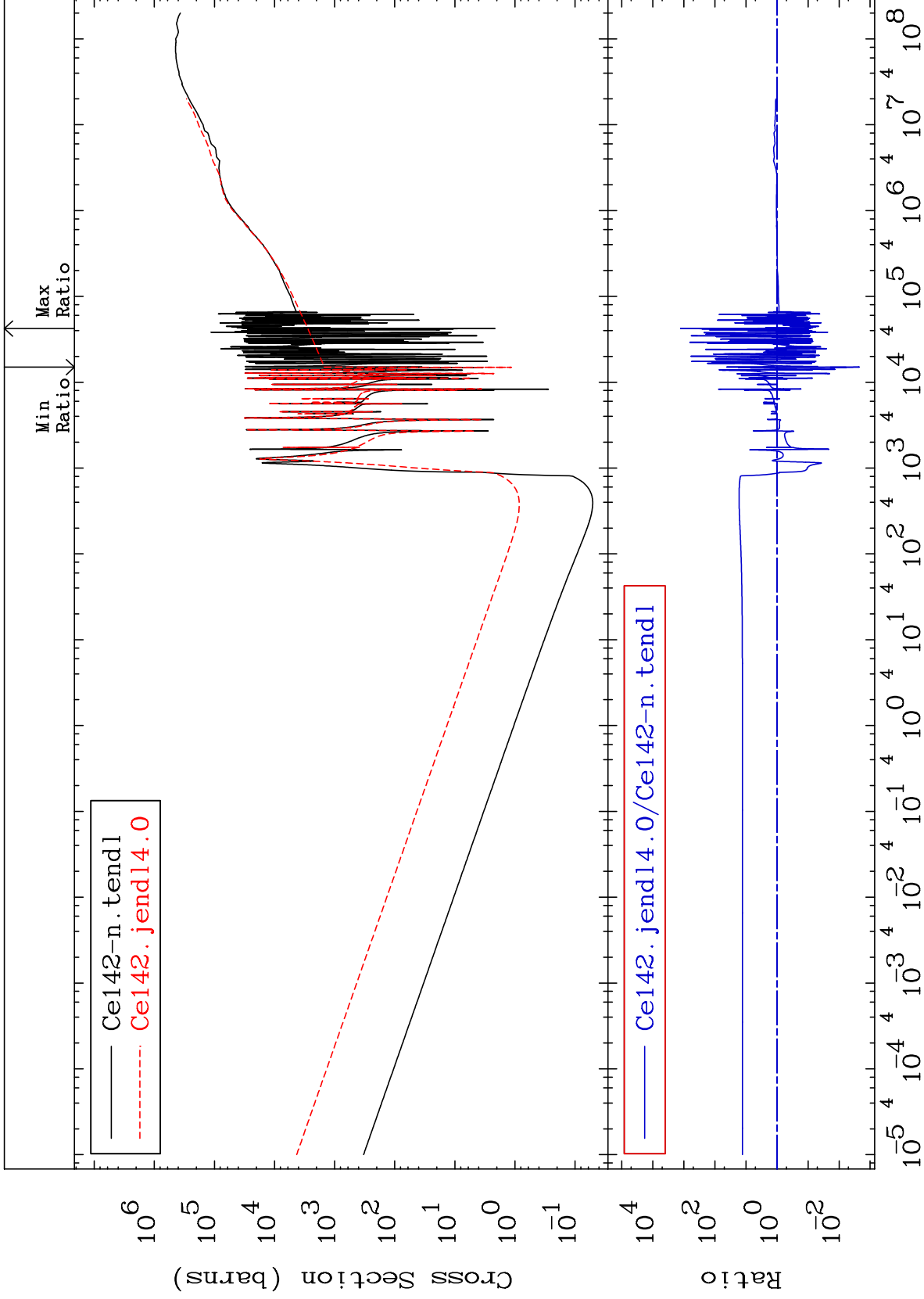


42

Incident Energy (eV)

58-Ce-142

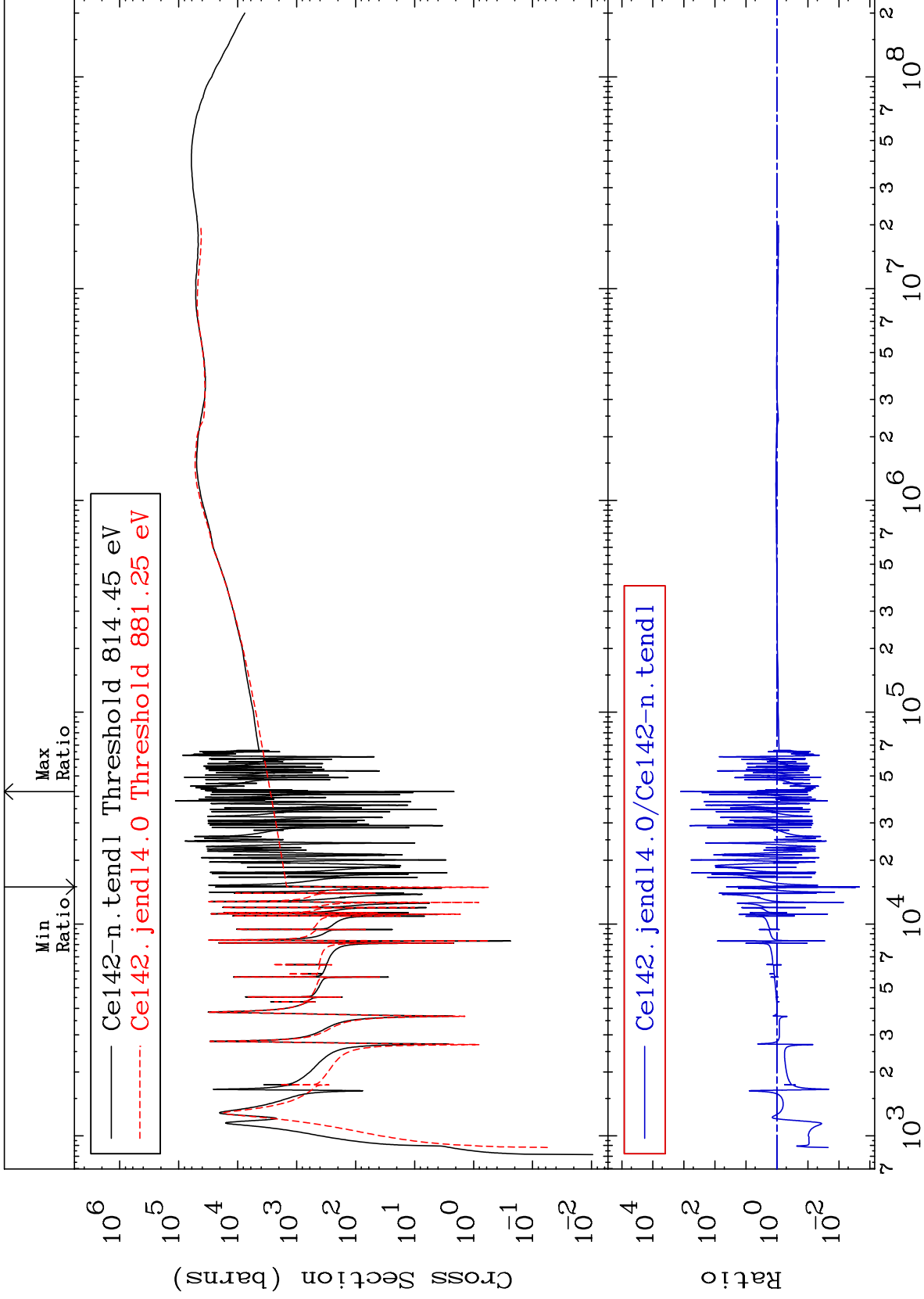




MAT 5843

Dpa elastic (mt2)
Cross Section

58-Ce-142
-99.78 To 9999. %



45

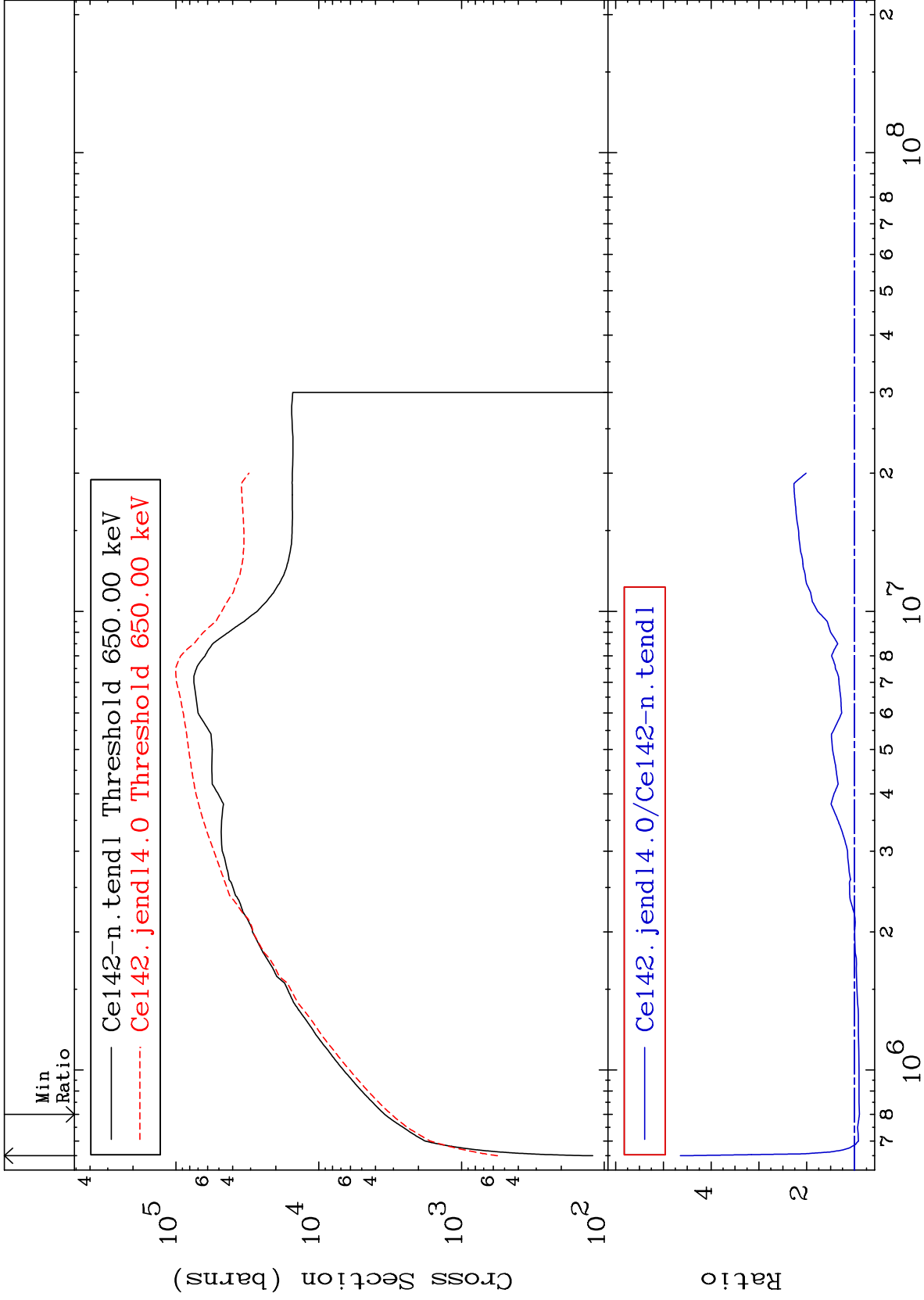
Incident Energy (eV)

58-Ce-142

MAT 5843

Dpa inelastic (mt51-91)
Cross Section

58-Ce-142
-10.31 To 364.4 %



MAT 5843

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-142
-98.13 To 9999. %

