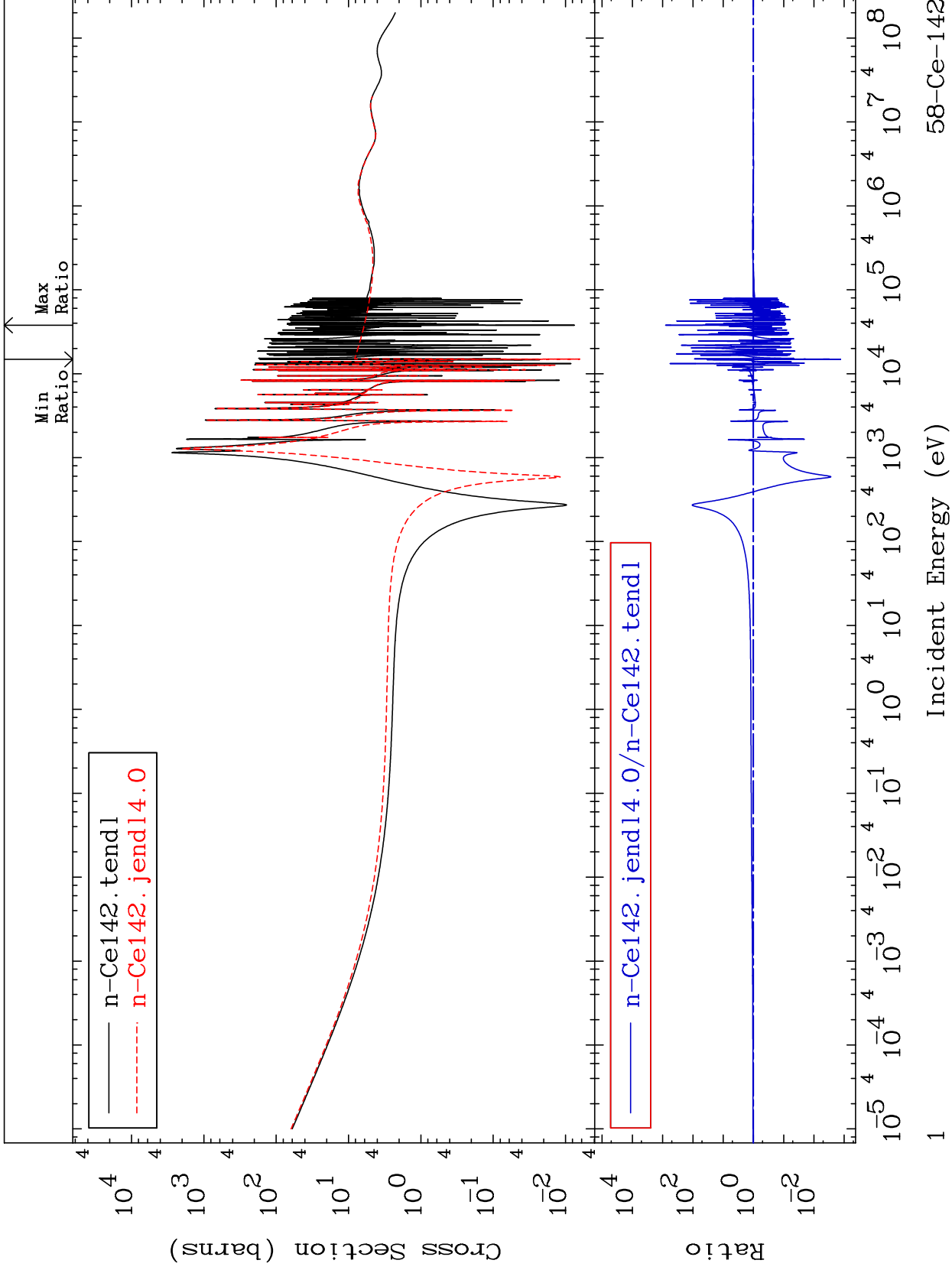


MAT 5843

Total
Cross Section

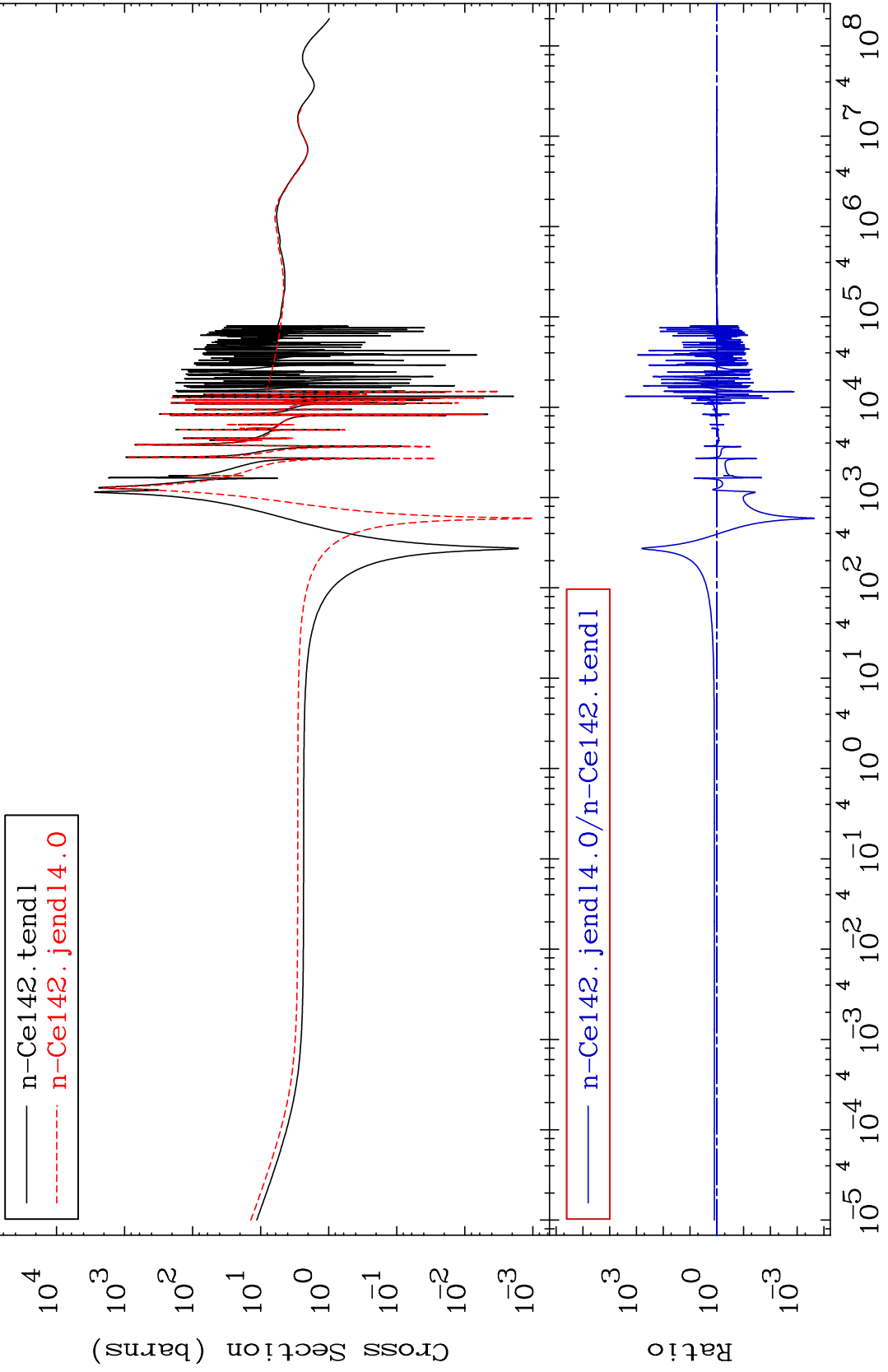
58-Ce-142
-99.87 To 9999. %



MAT 5843

Elastic
Cross Section

58-Ce-142
-99.98 To 9999. %



2

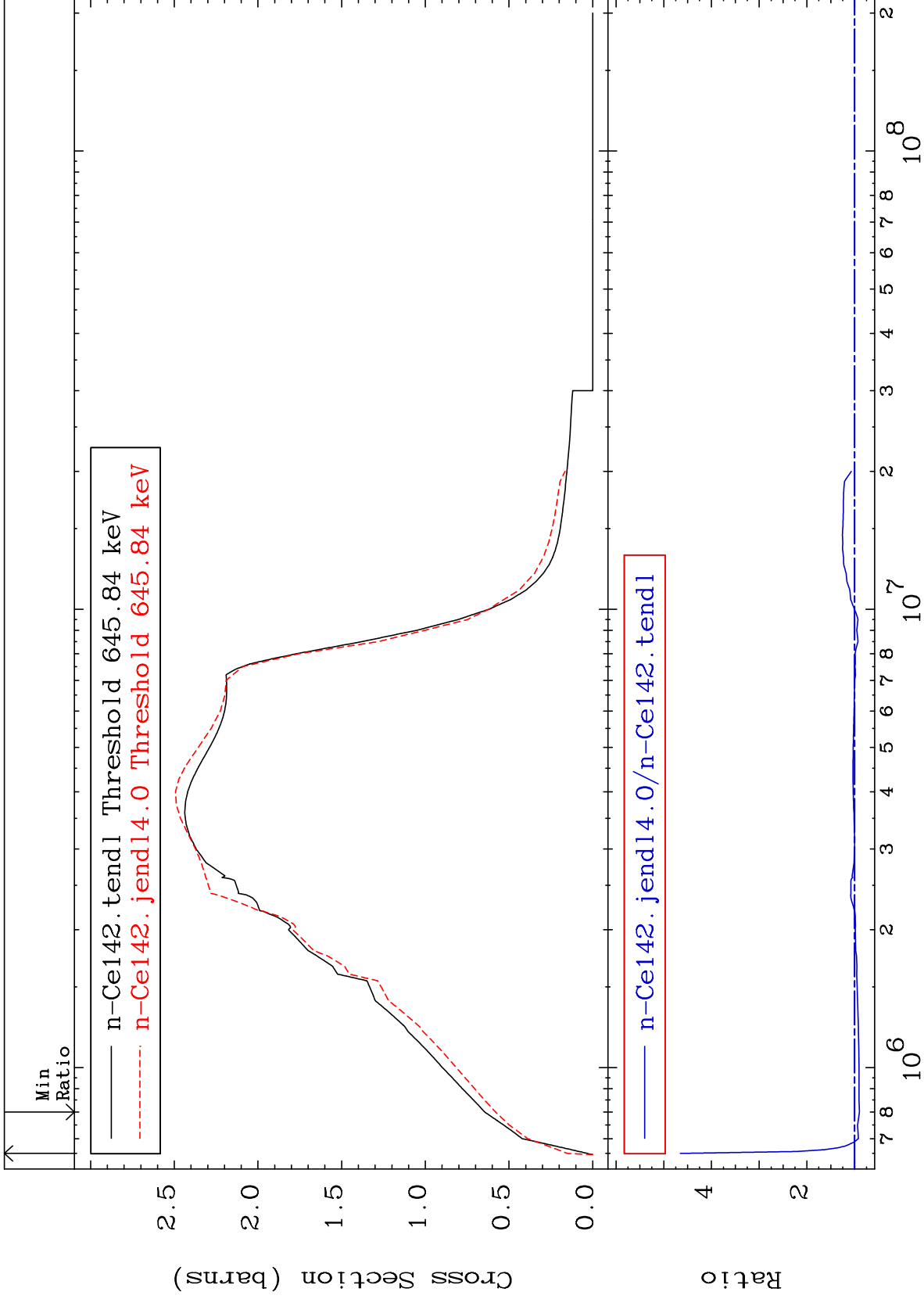
Incident Energy (eV)

58-Ce-142

MAT 5843

Inelastic
Cross Section

58-Ce-142
-10.08 To 365.2 %



3

58-Ce-142

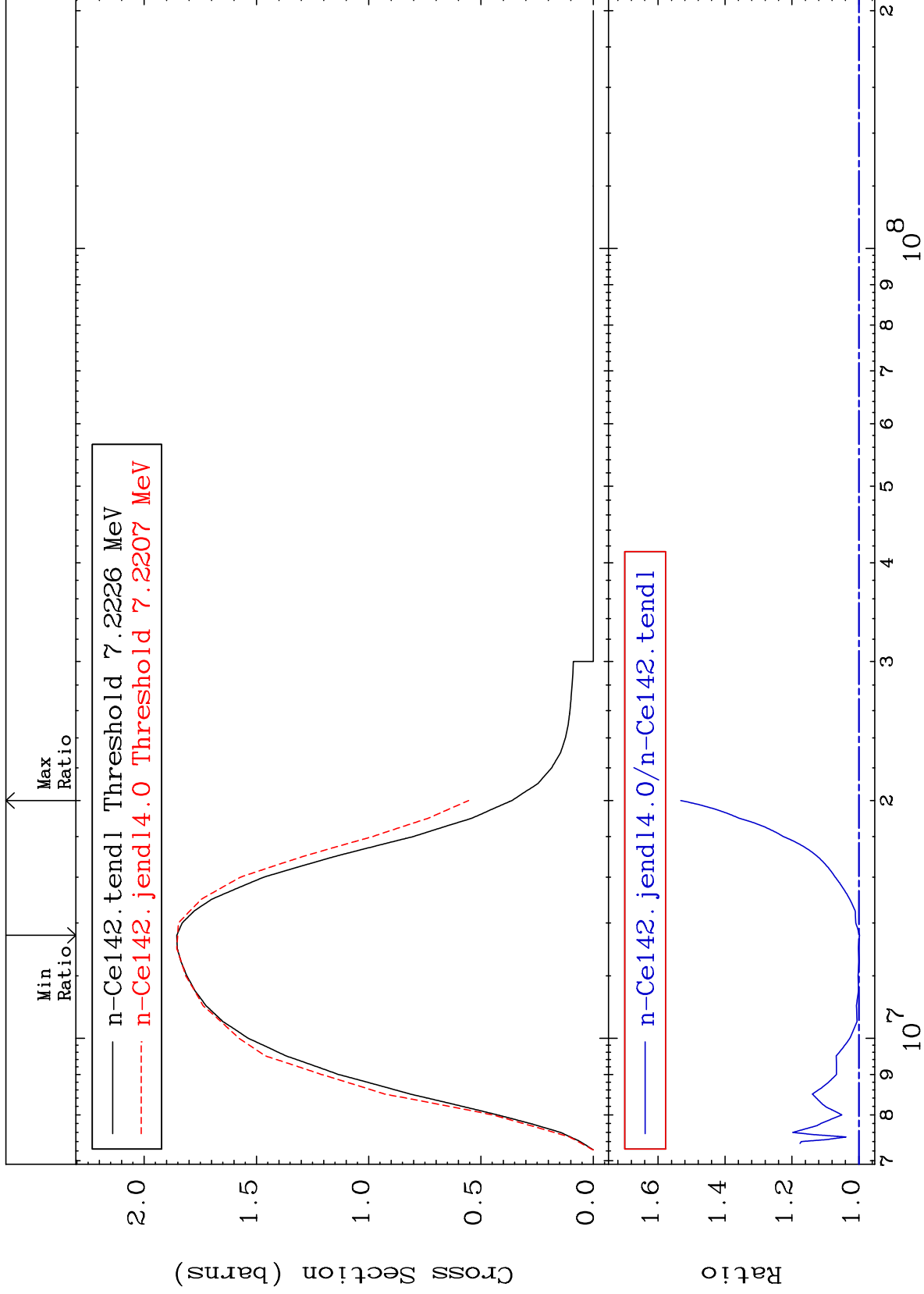
MAT 5843

(n,2n)

58-Ce-142

Cross Section

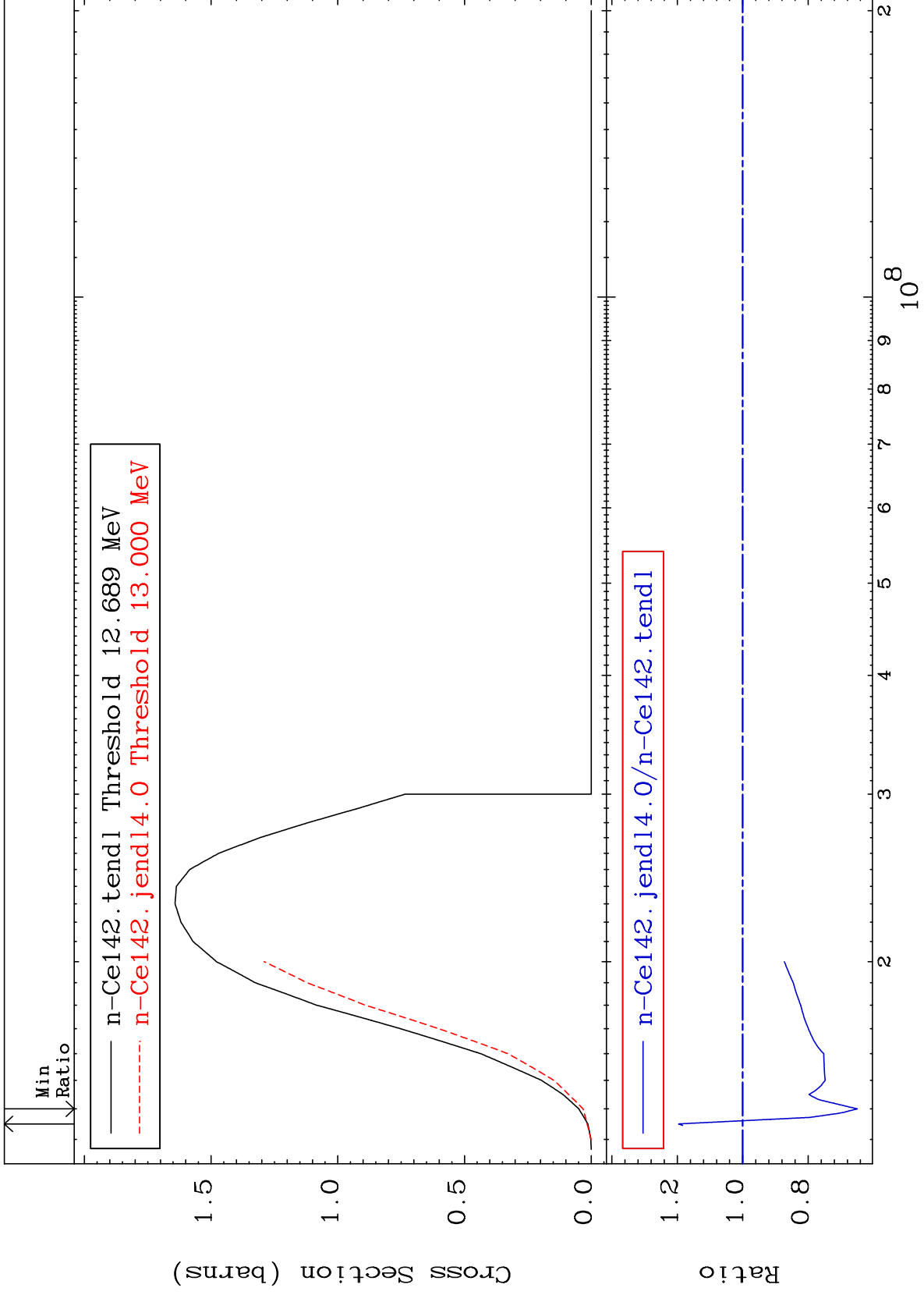
-0.205 To 53.22 %



MAT 5843

(n,3n)
Cross Section

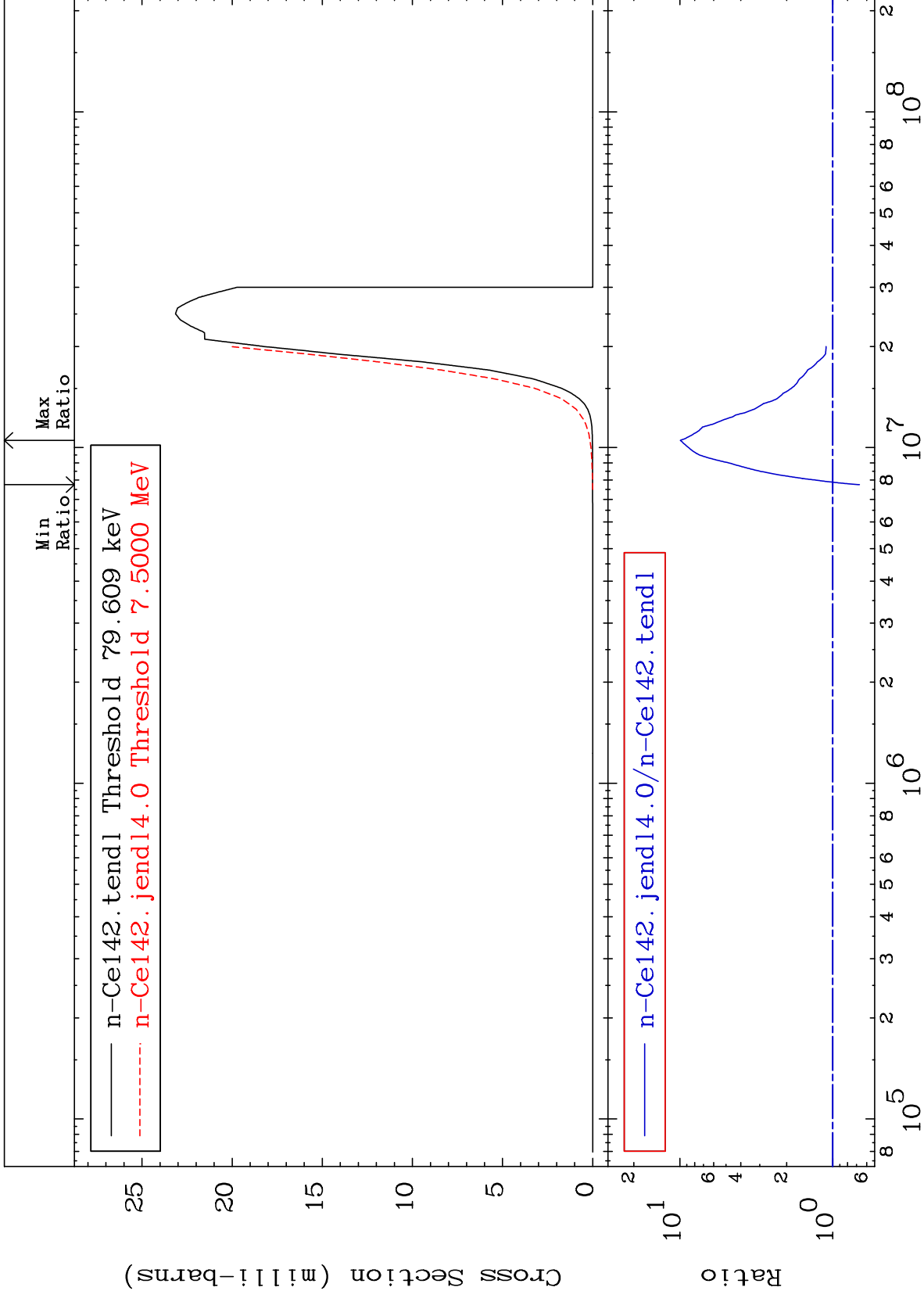
58-Ce-142
-35.02 To 19.59 %



MAT 5843

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

58-Ce-142
-33.03 To 892.1 %



6

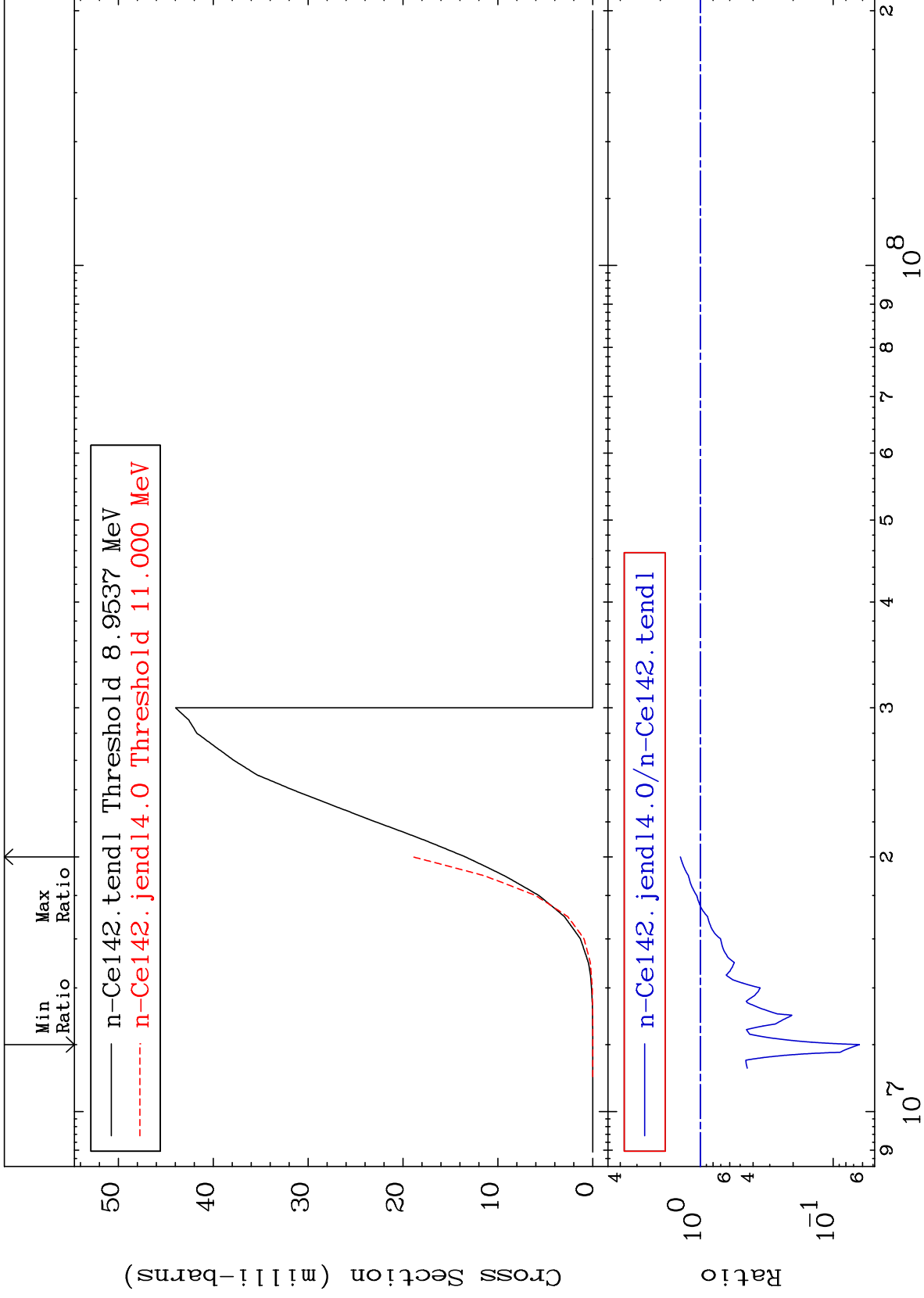
Incident Energy (eV)

58-Ce-142

MAT 5843

(n,n') p
Cross Section

58-Ce-142
-93.67 To 41.14 %



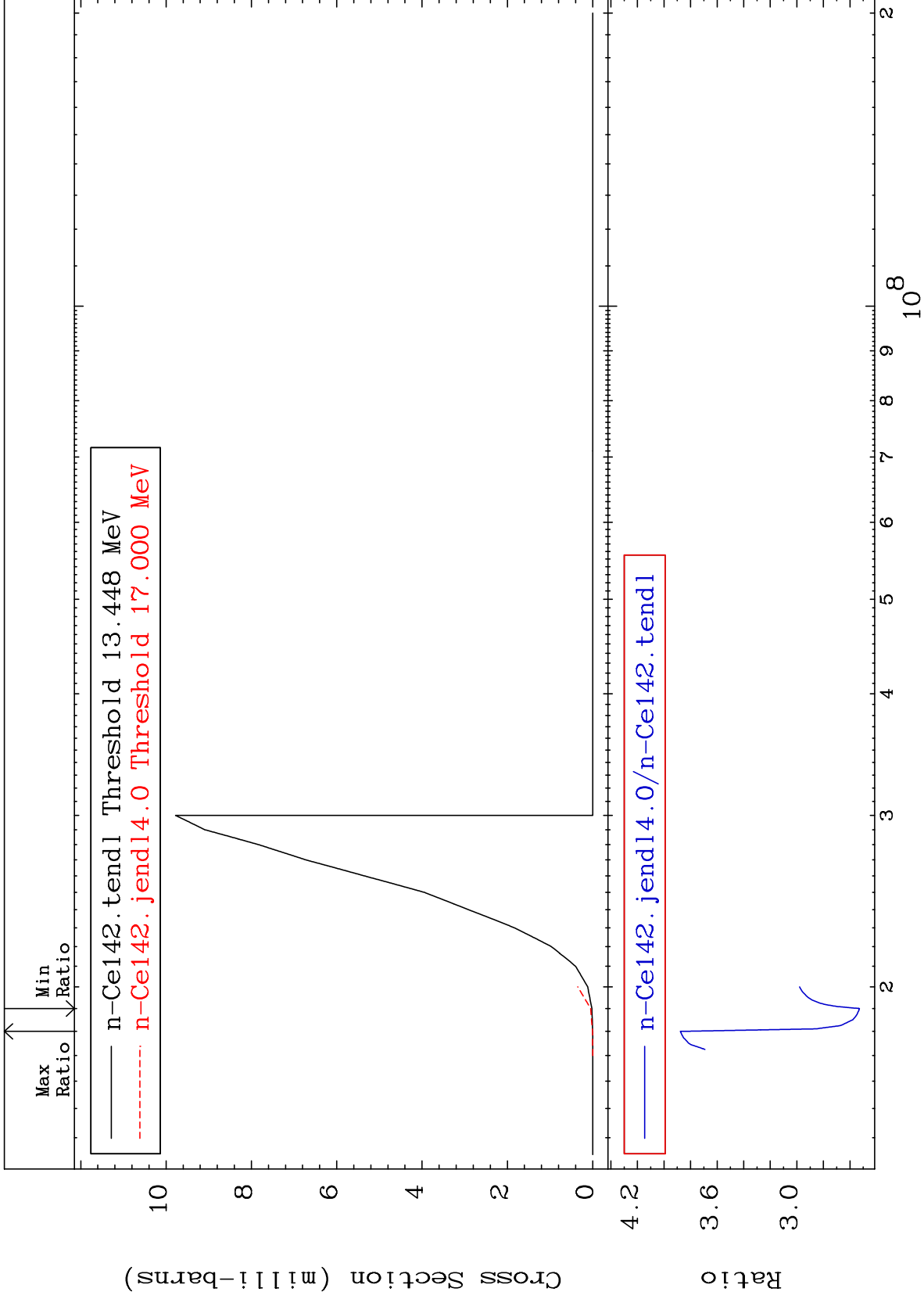
58-Ce-142

Incident Energy (eV)

MAT 5843

(n,n') d
Cross Section

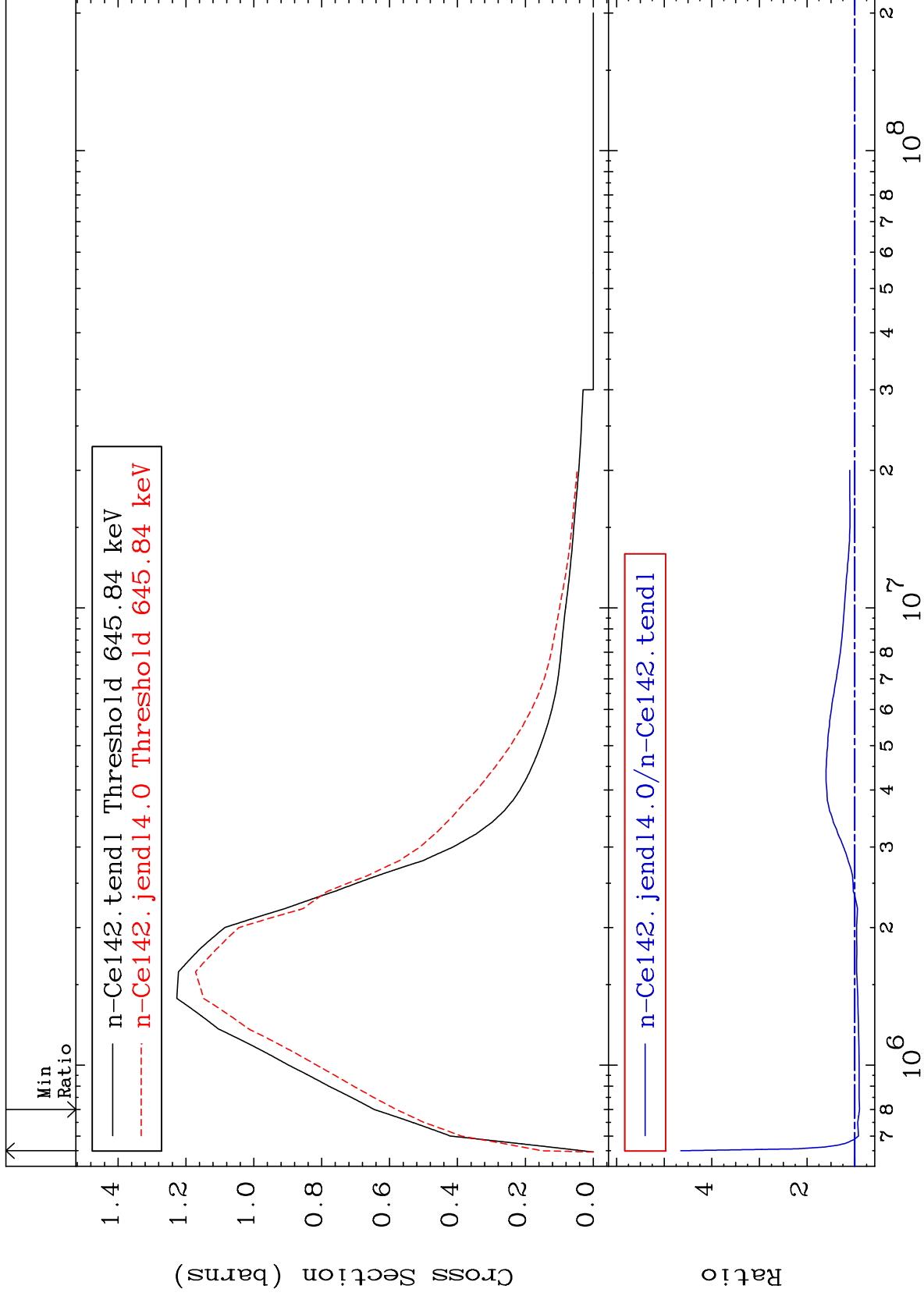
58-Ce-142
152.9 To 287.7 %



MAT 5843

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

58-Ce-142
-10.08 To 365.2 %



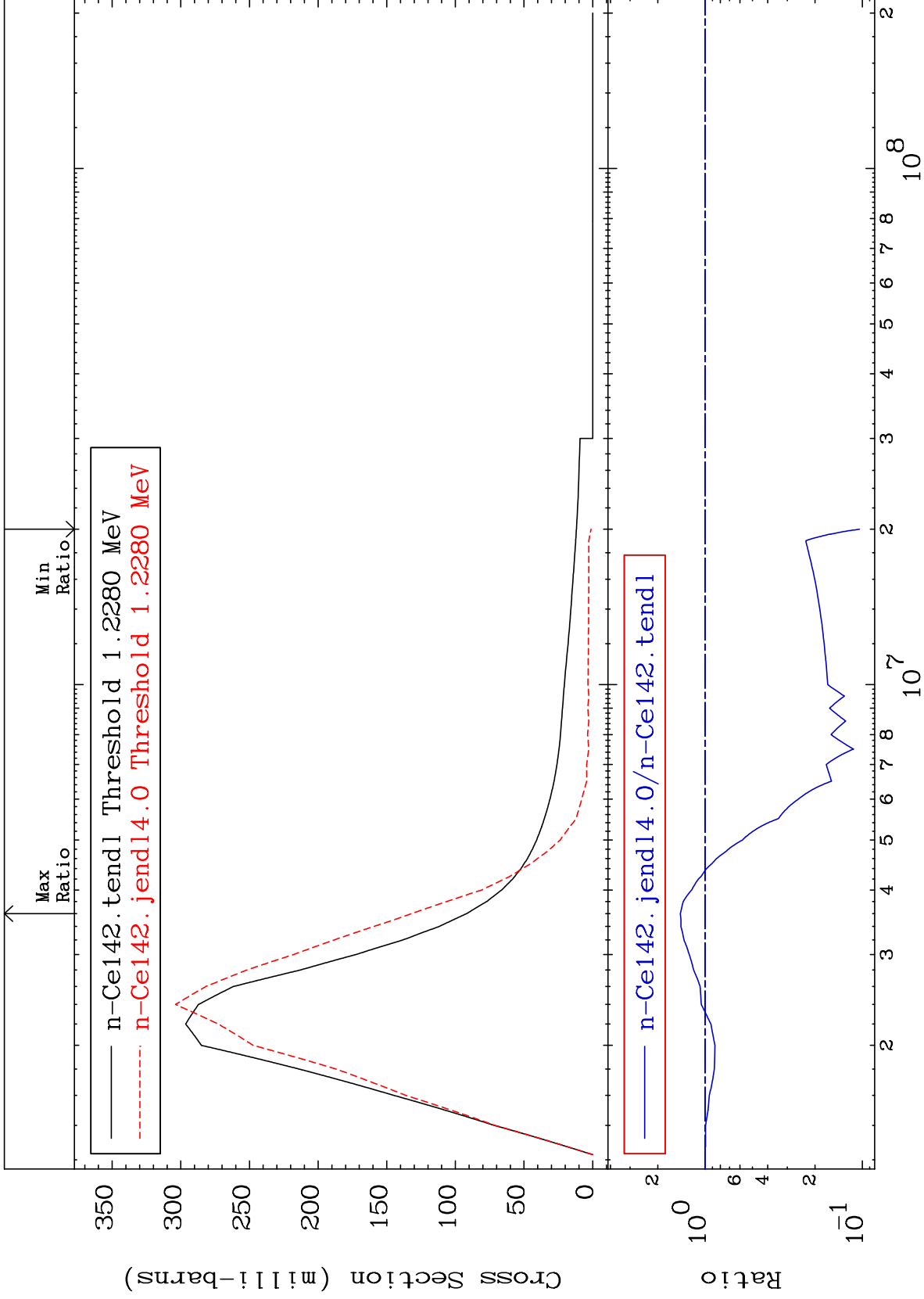
9

58-Ce-142

MAT 5843

MT= 52 (n, n') Level
Cross Section

58-Ce-142
-89.56 To 43.74 %



10

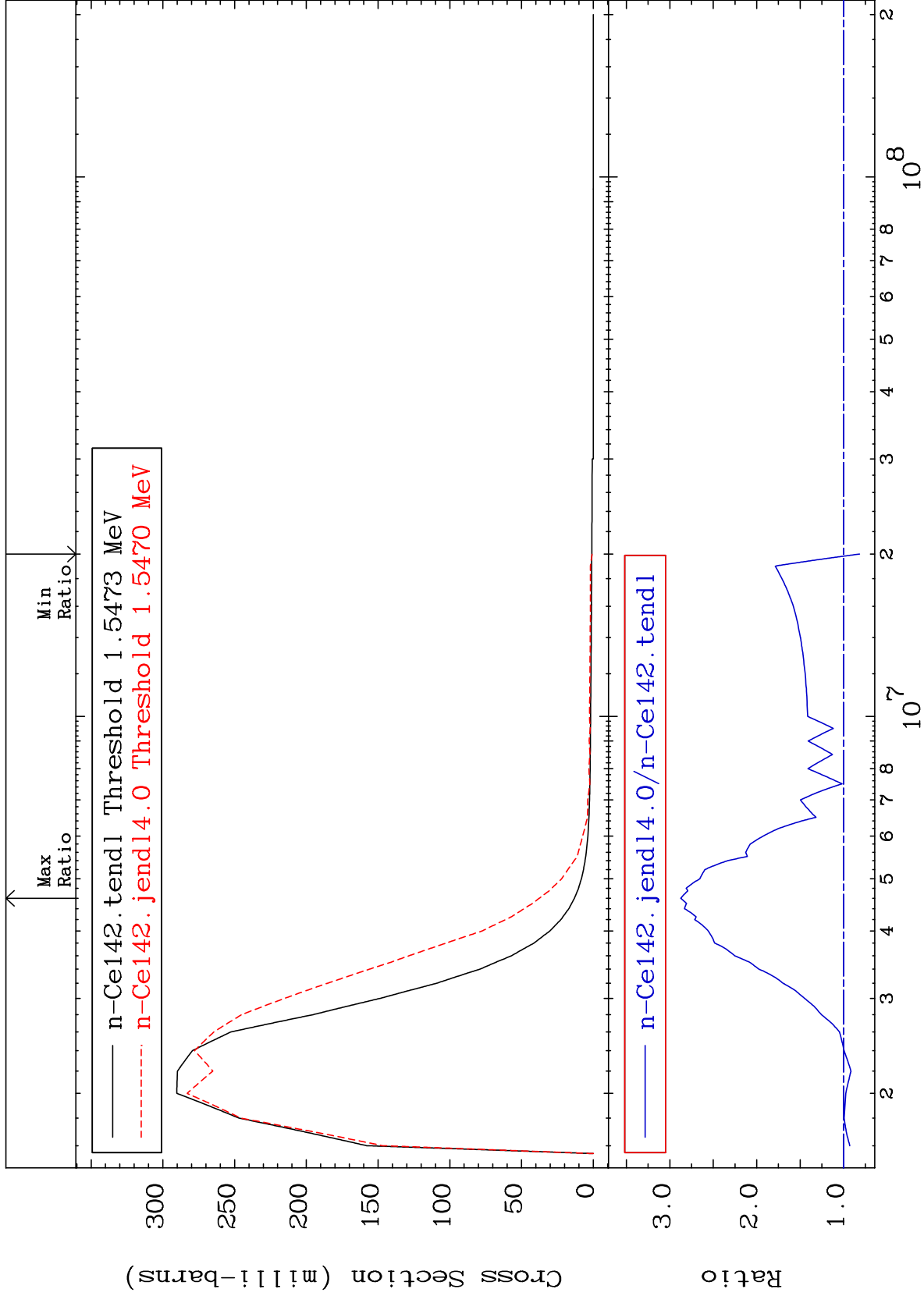
Incident Energy (eV)

58-Ce-142

MAT 5843

MT= 53 (n,n') Level
Cross Section

58-Ce-142
-18.36 To 187.4 %



11

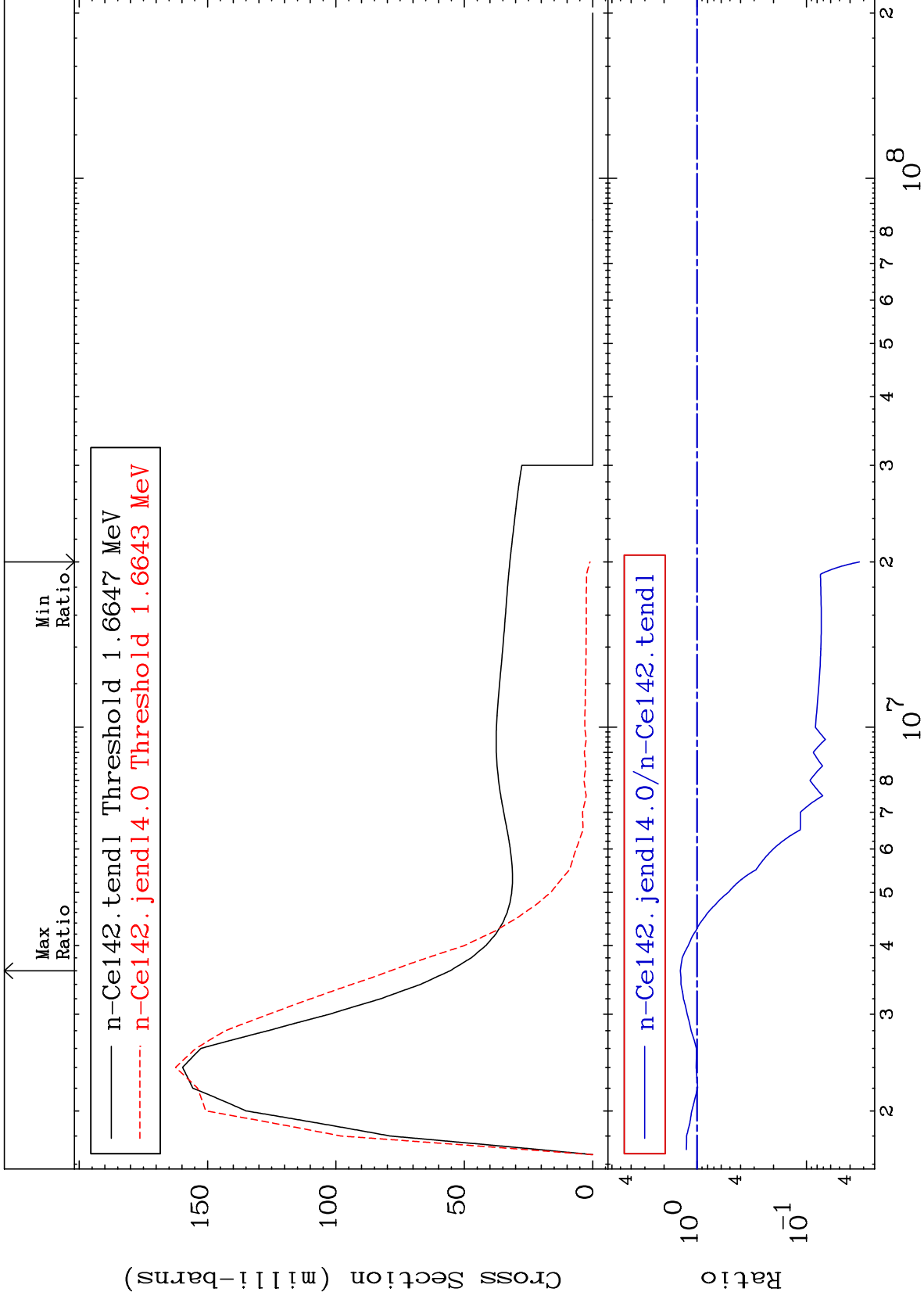
Incident Energy (eV)

58-Ce-142

MAT 5843

MT= 54 (n,n') Level
Cross Section

58-Ce-142
-96.72 To 41.90 %



12

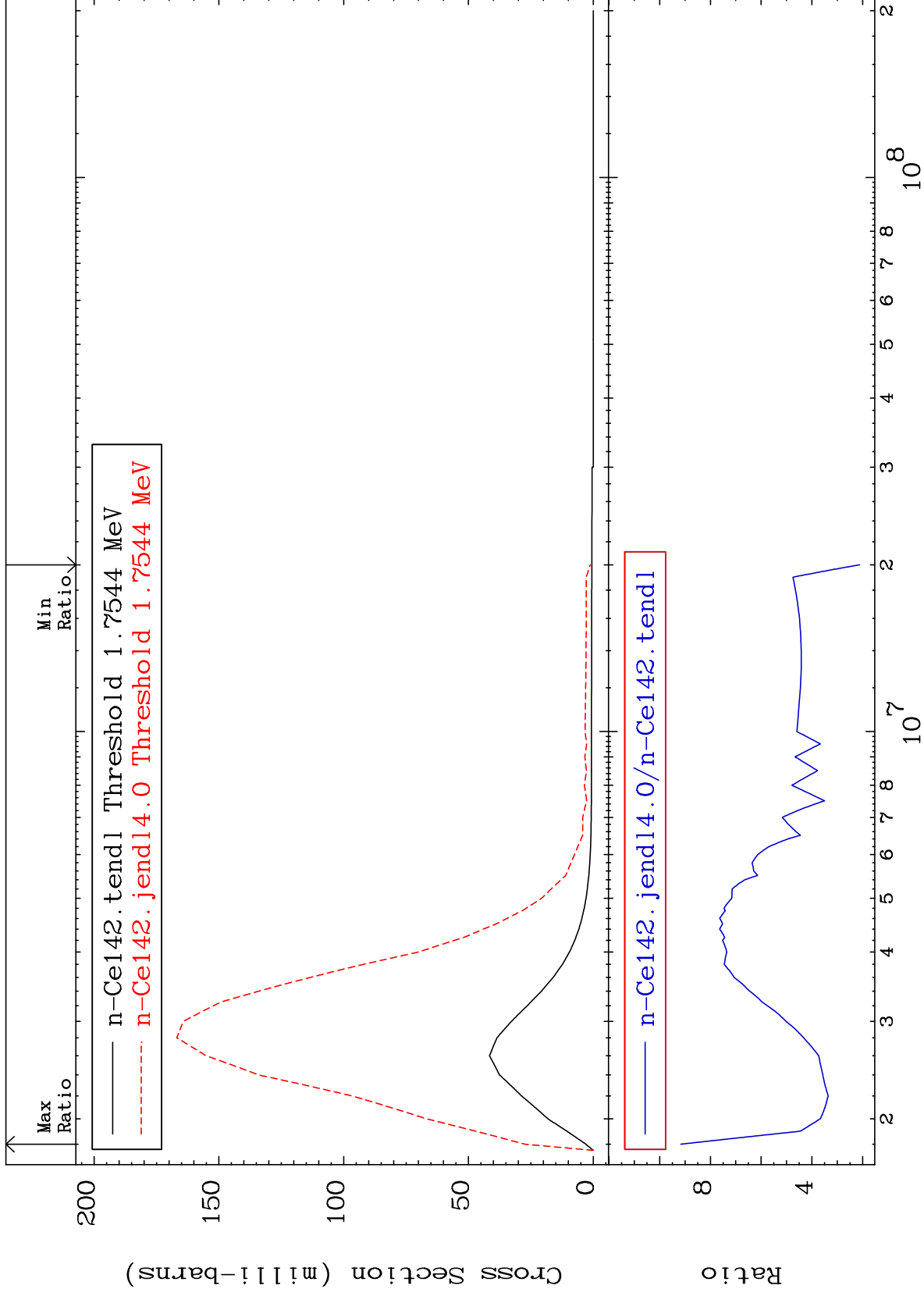
Incident Energy (eV)

58-Ce-142

MAT 5843

MT= 55 (n,n') Level
Cross Section

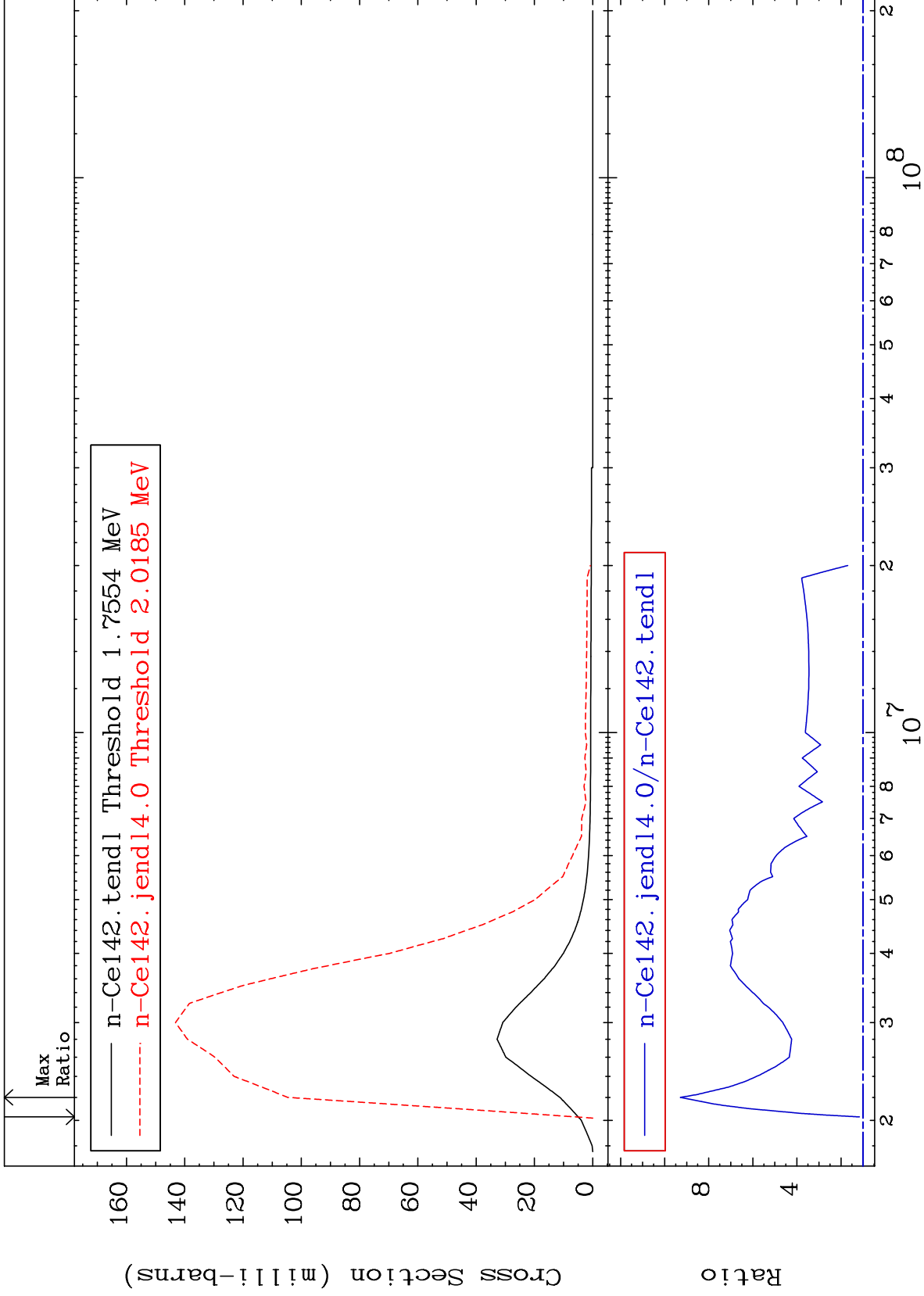
58-Ce-142
112.0 To 816.9 %



MAT 5843

MT= 56 (n,n') Level
Cross Section

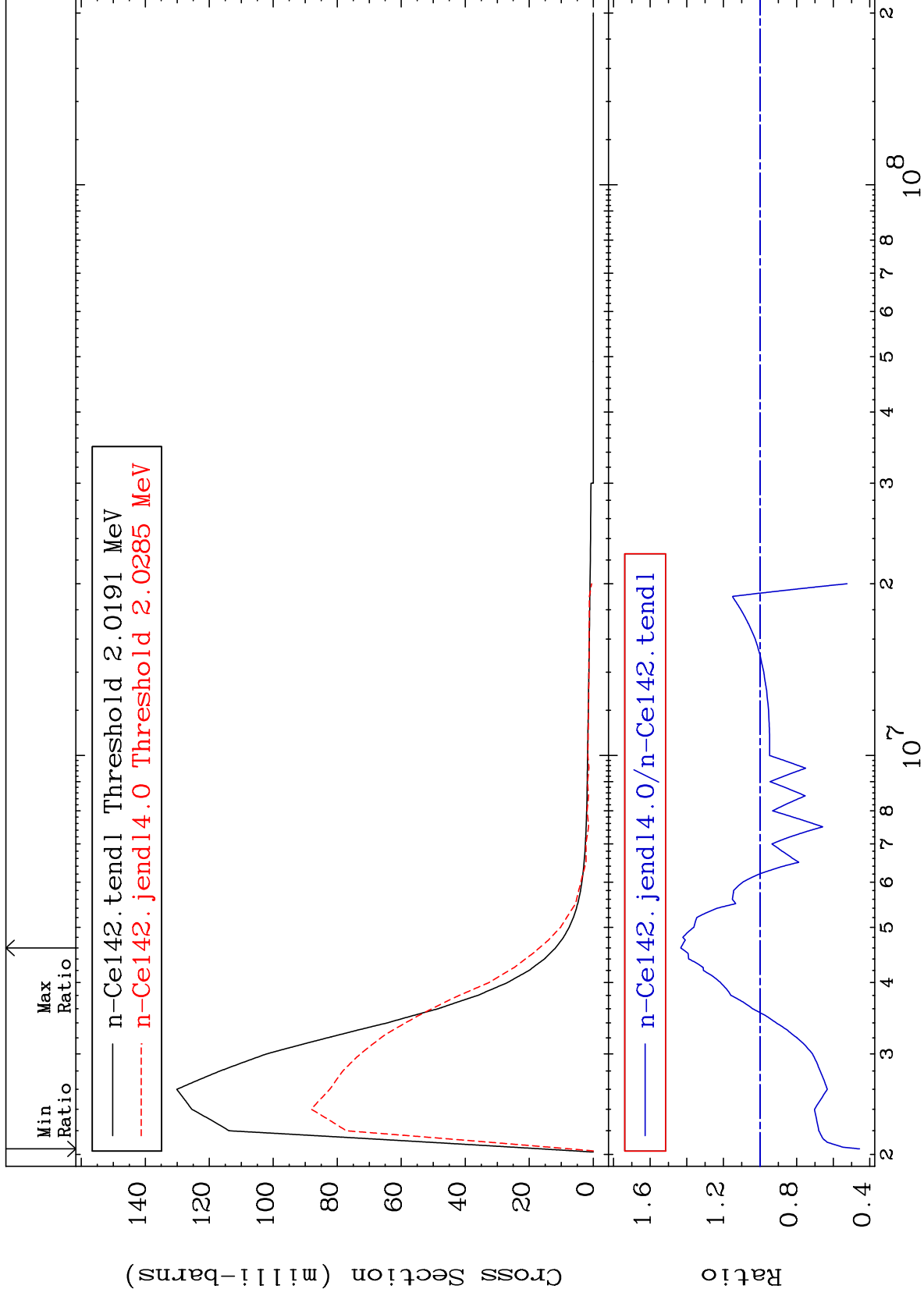
58-Ce-142
16.38 To 828.8 %



MAT 5843

MT= 57 (n,n') Level
Cross Section

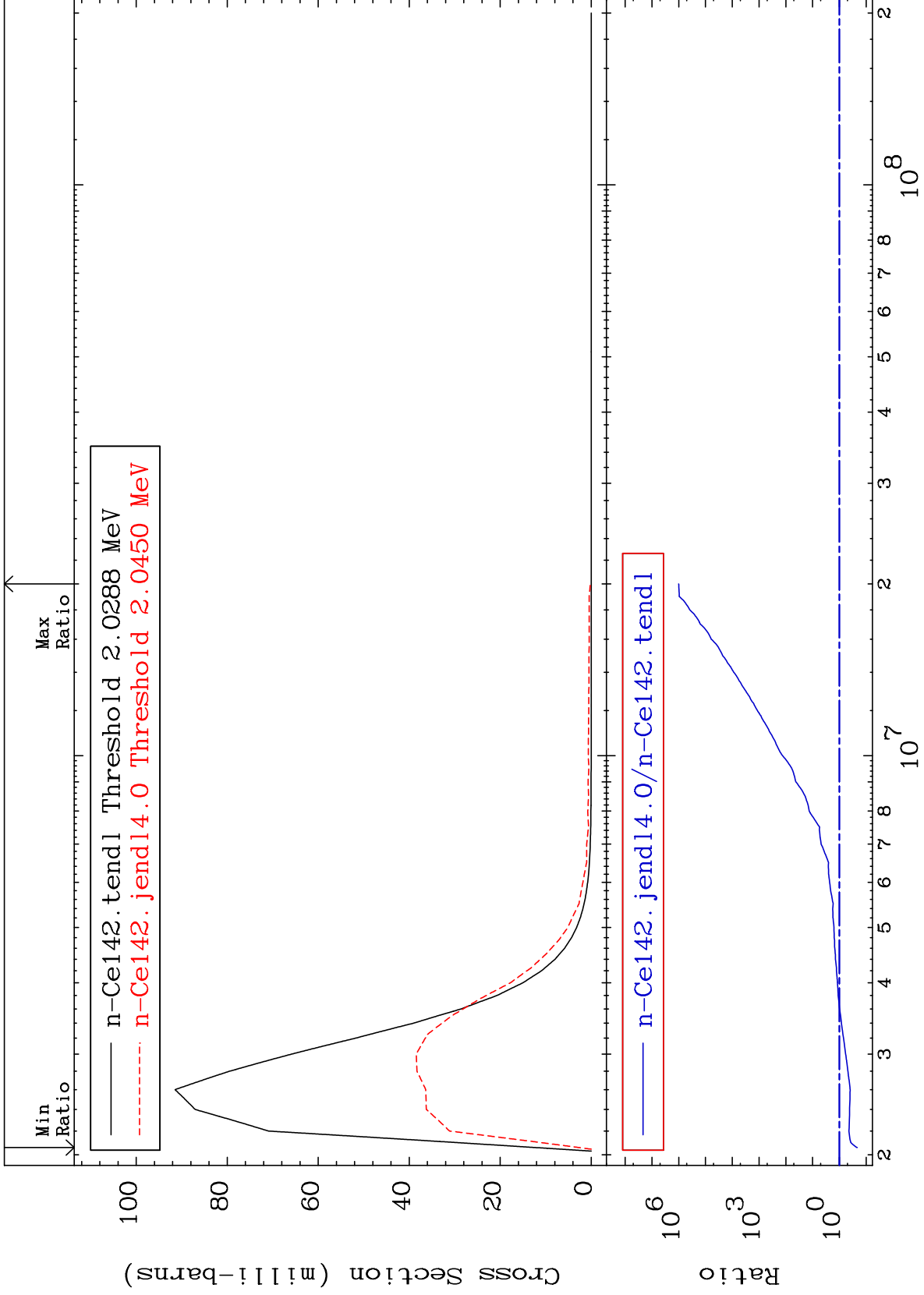
58-Ce-142
-54.38 To 43.25 %



MAT 5843

MT= 58 (n, n') Level
Cross Section

58-Ce-142
-78.44 To 9999. %



16

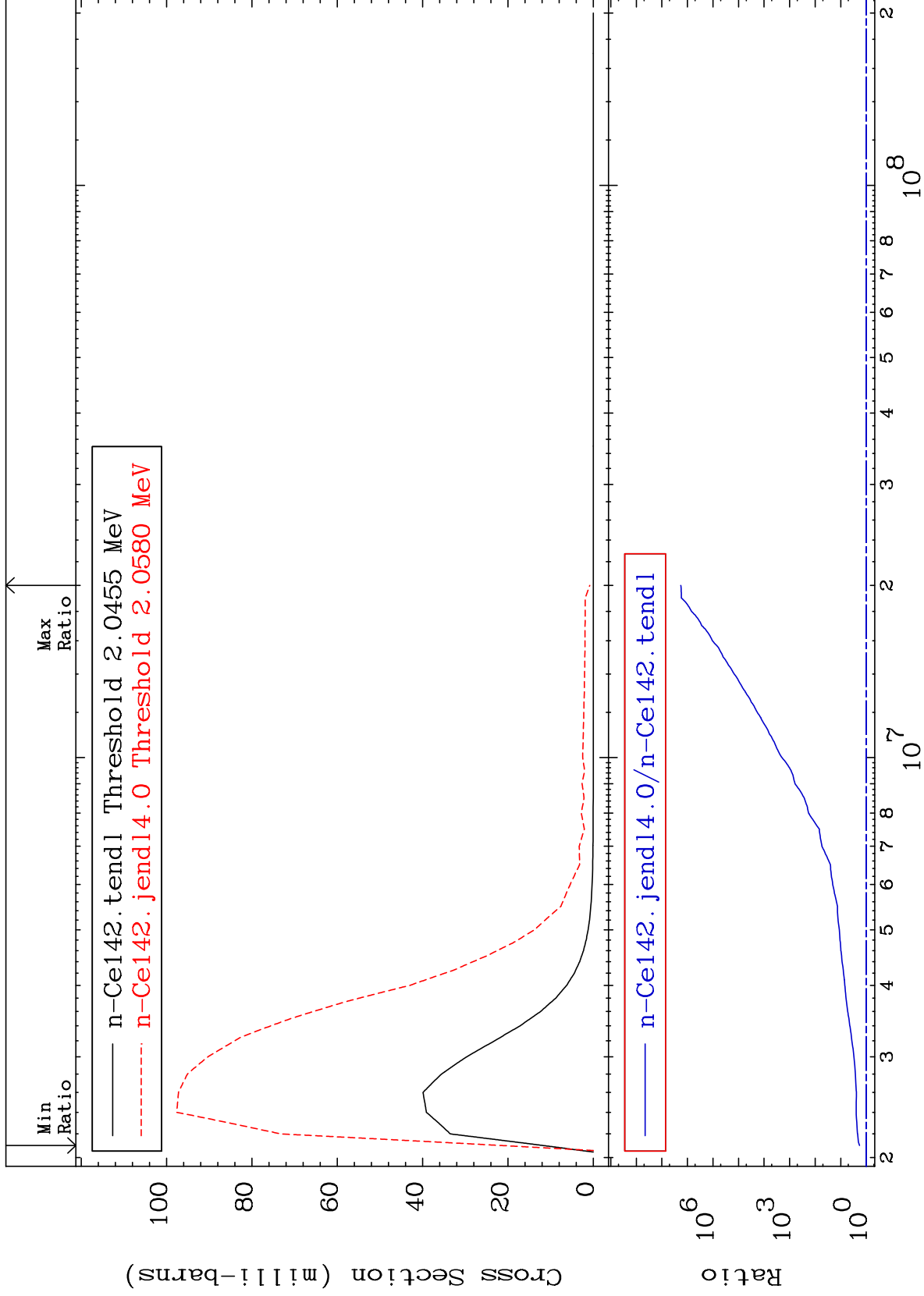
Incident Energy (eV)

58-Ce-142

MAT 5843

MT= 59 (n,n') Level
Cross Section

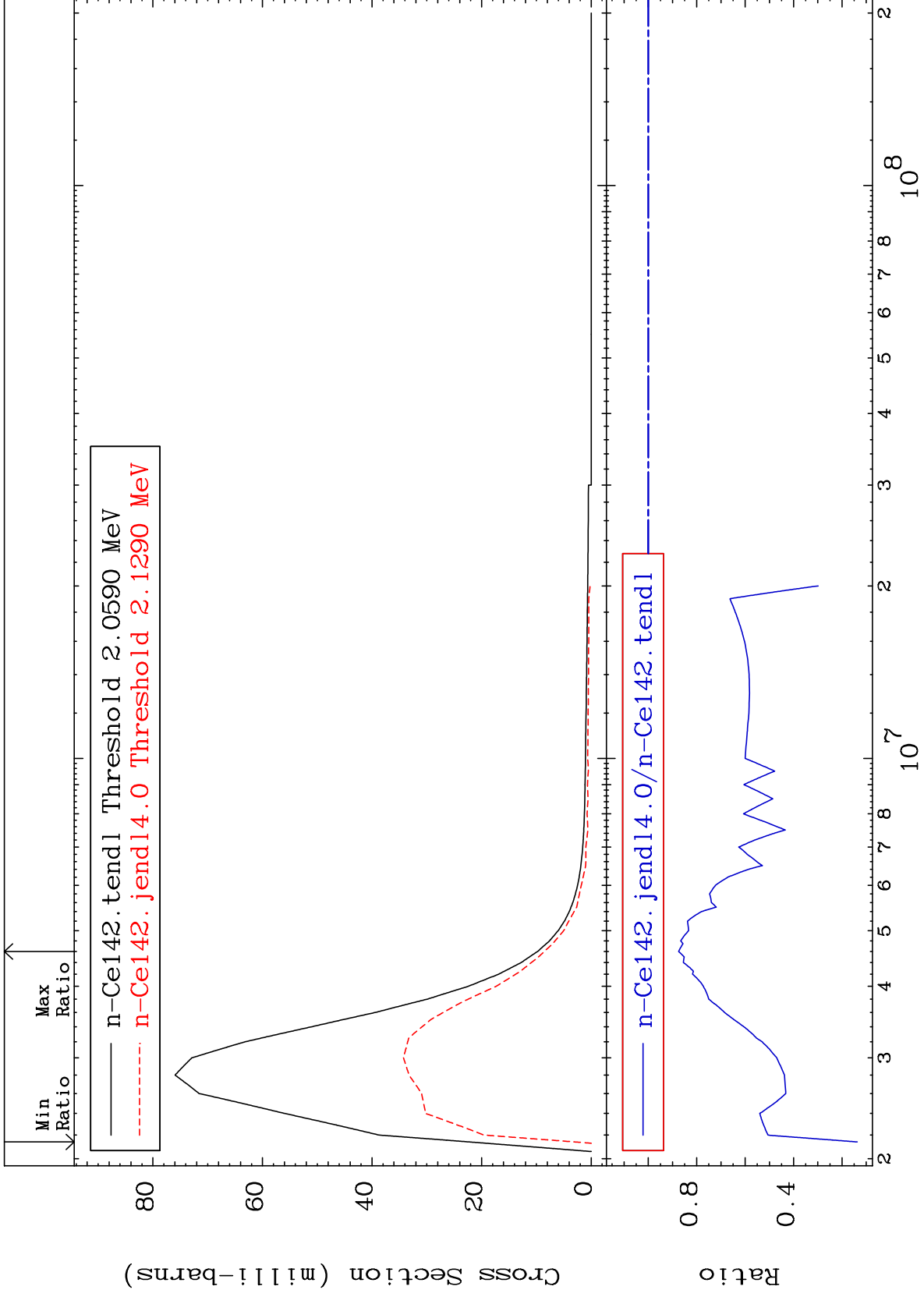
58-Ce-142
83.12 To 9999. %



MAT 5843

MT= 60 (n,n') Level
Cross Section

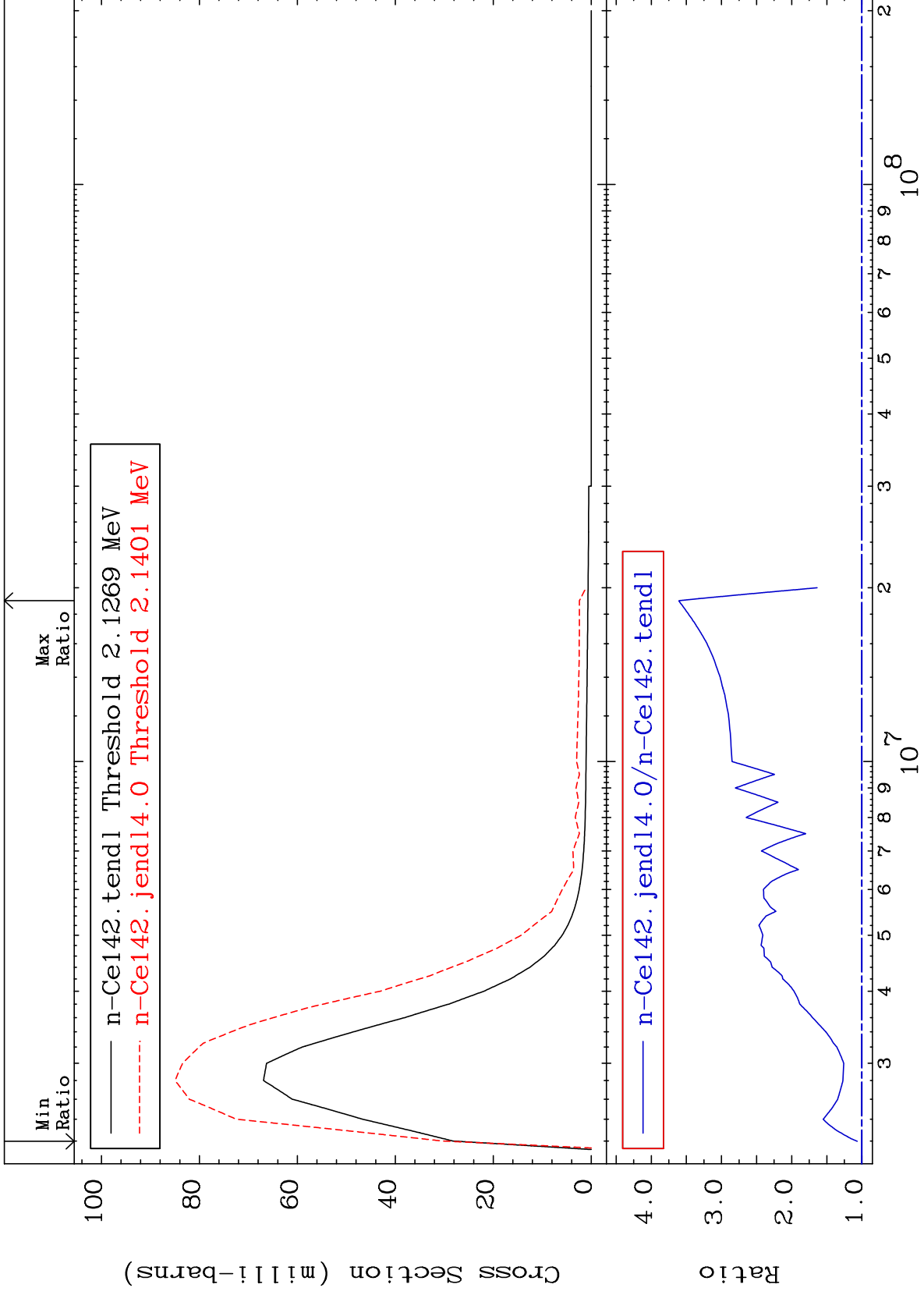
58-Ce-142
-86.28 To -12.52%



MAT 5843

MT= 61 (n,n') Level
Cross Section

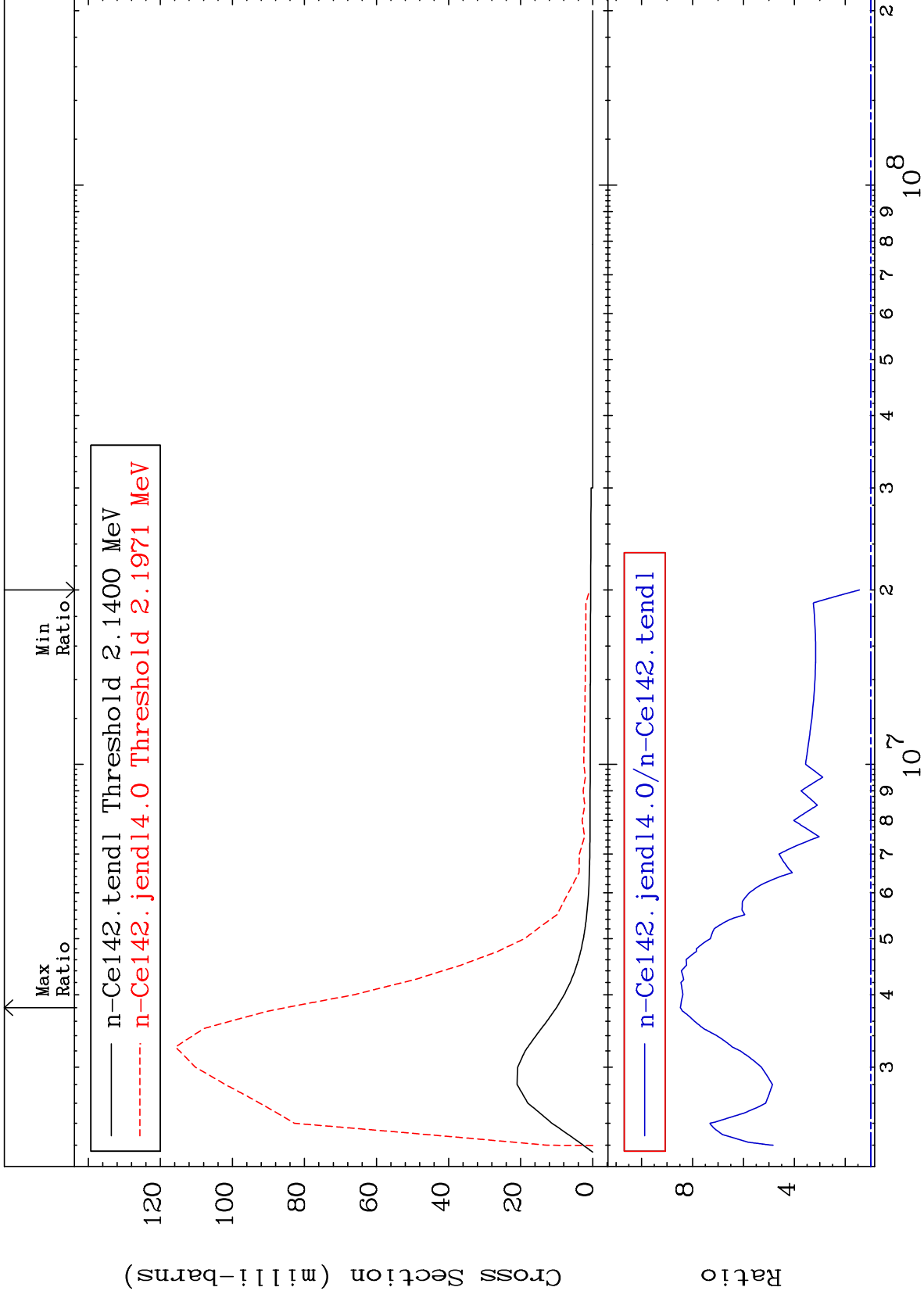
58-Ce-142
6.612 To 261.0 %



MAT 5843

MT= 62 (n,n') Level
Cross Section

58-Ce-142
44.34 To 747.8 %



20

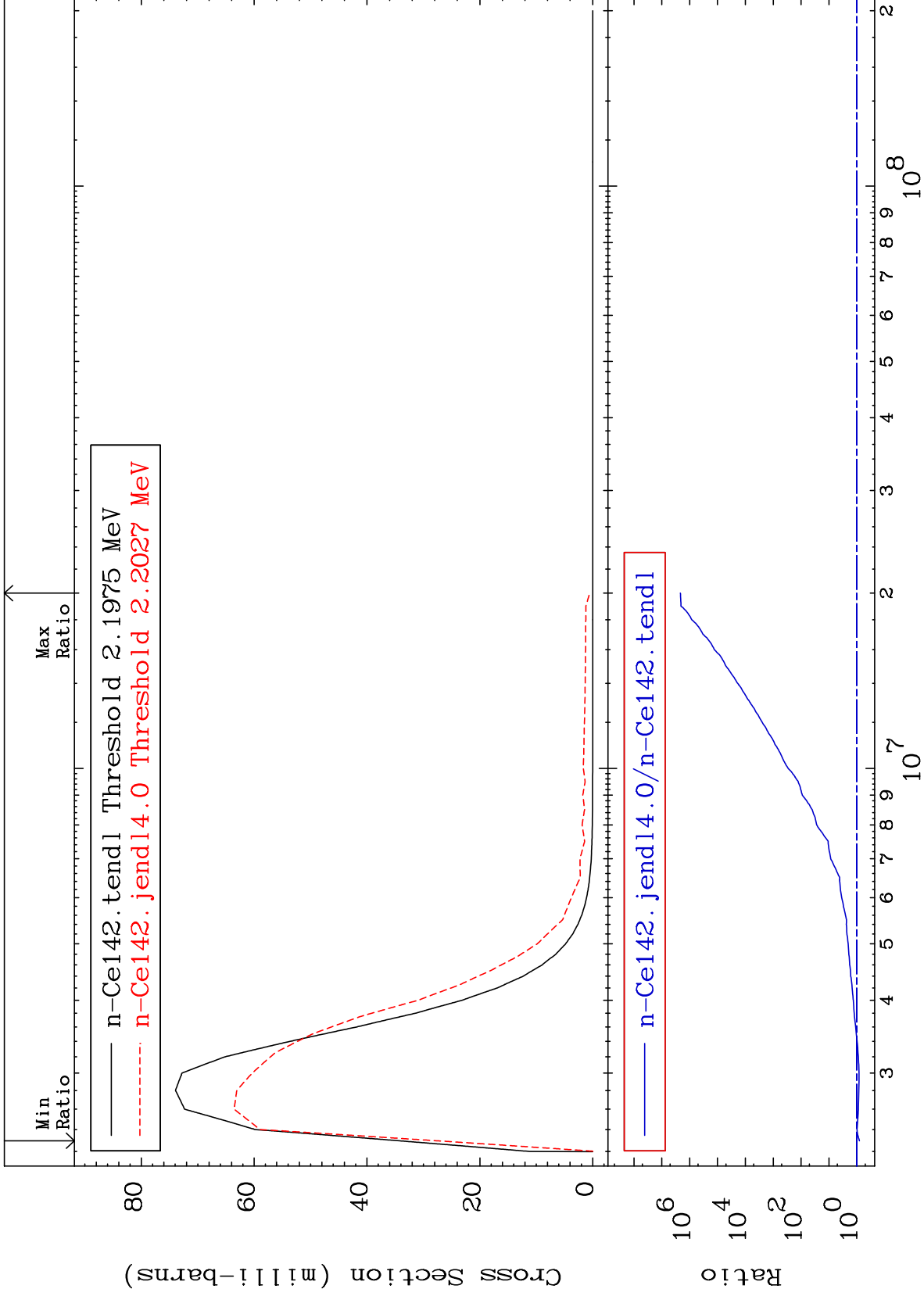
Incident Energy (eV)

58-Ce-142

MAT 5843

MT= 63 (n,n') Level
Cross Section

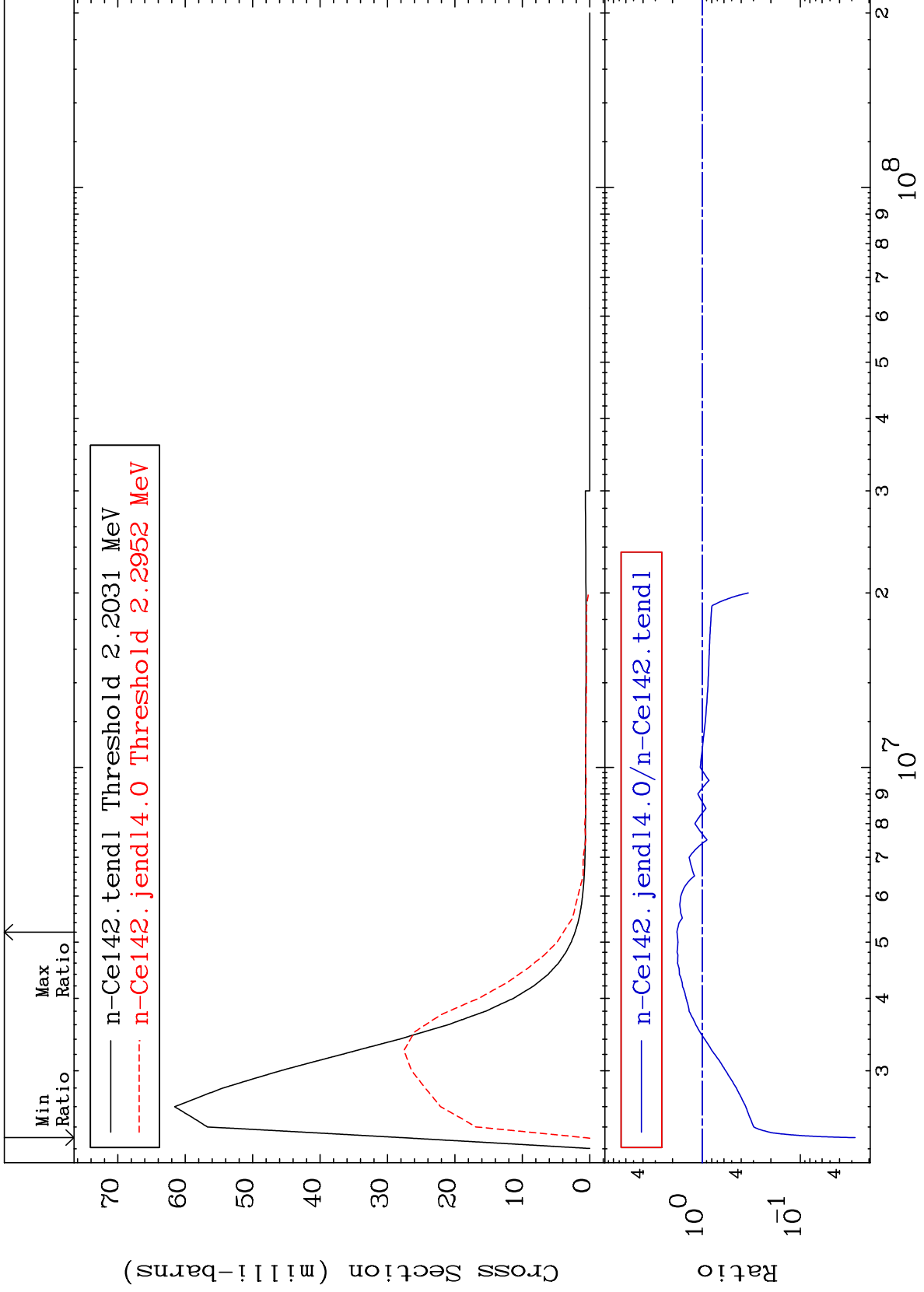
58-Ce-142
-19.43 To 9999. %



MAT 5843

MT= 64 (n,n') Level
Cross Section

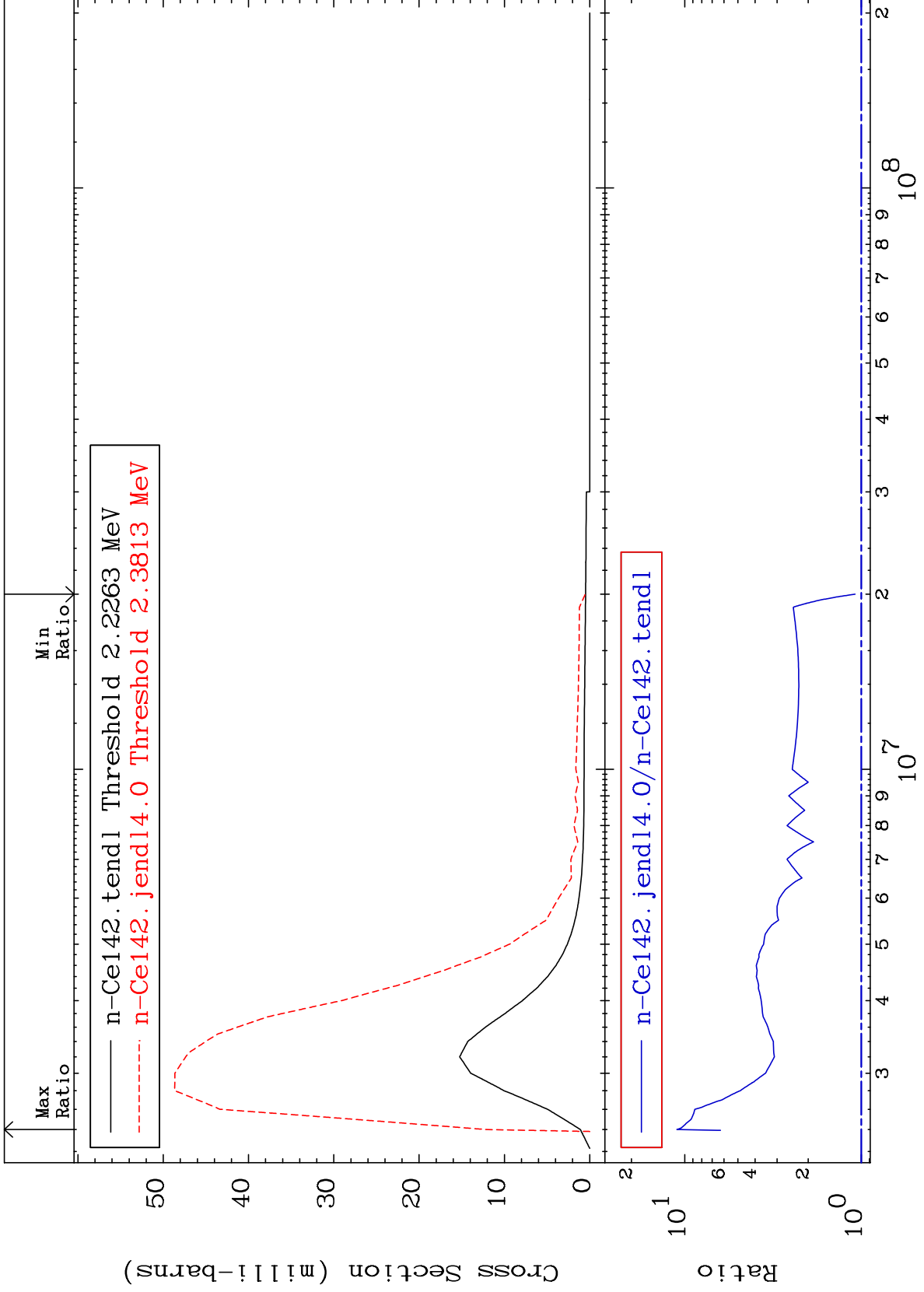
58-Ce-142
-97.23 To 80.69 %



MAT 5843

MT= 65 (n,n') Level
Cross Section

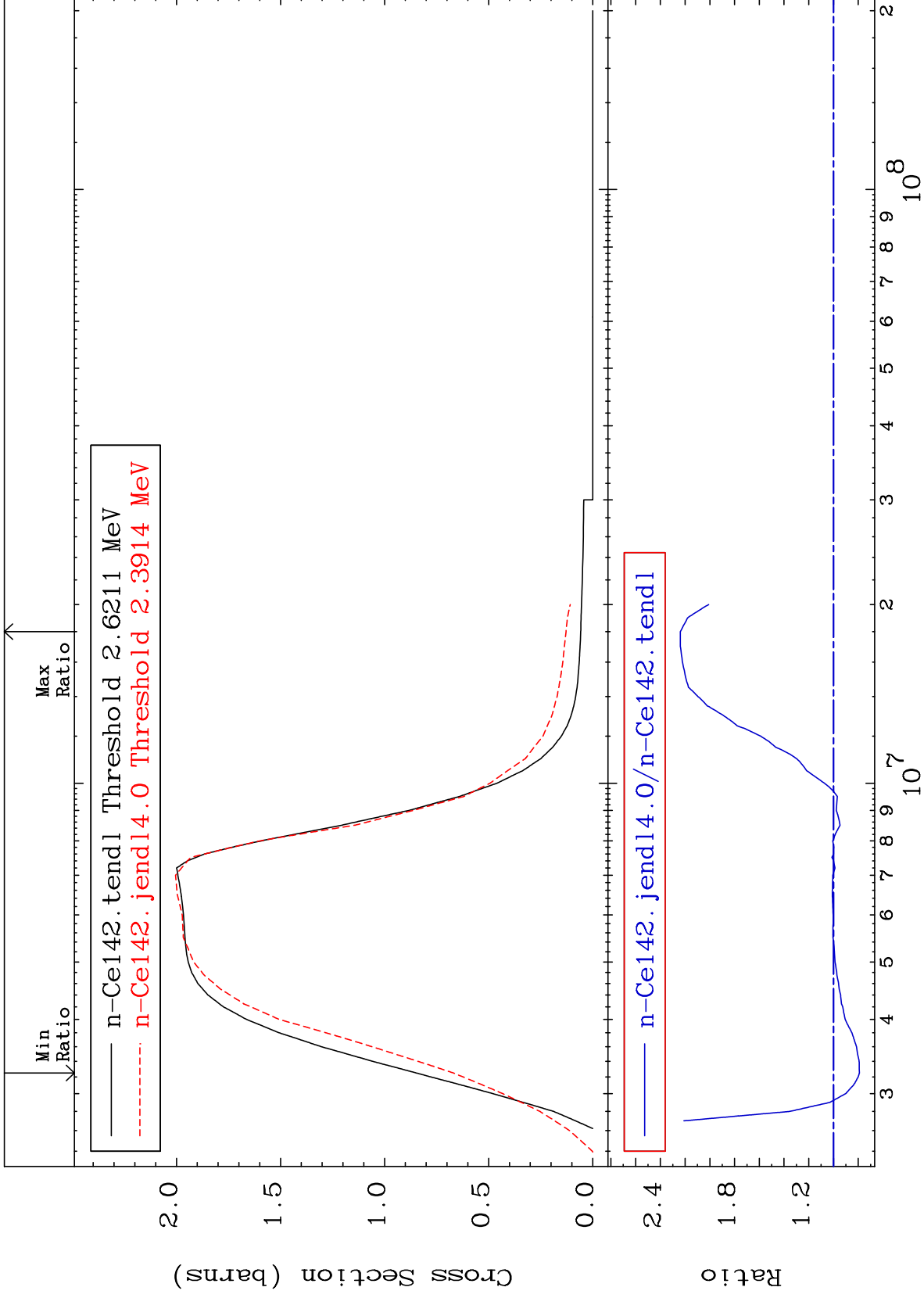
58-Ce-142
8.561 To 1006. %



MAT 5843

(n, n') Continuum
Cross Section

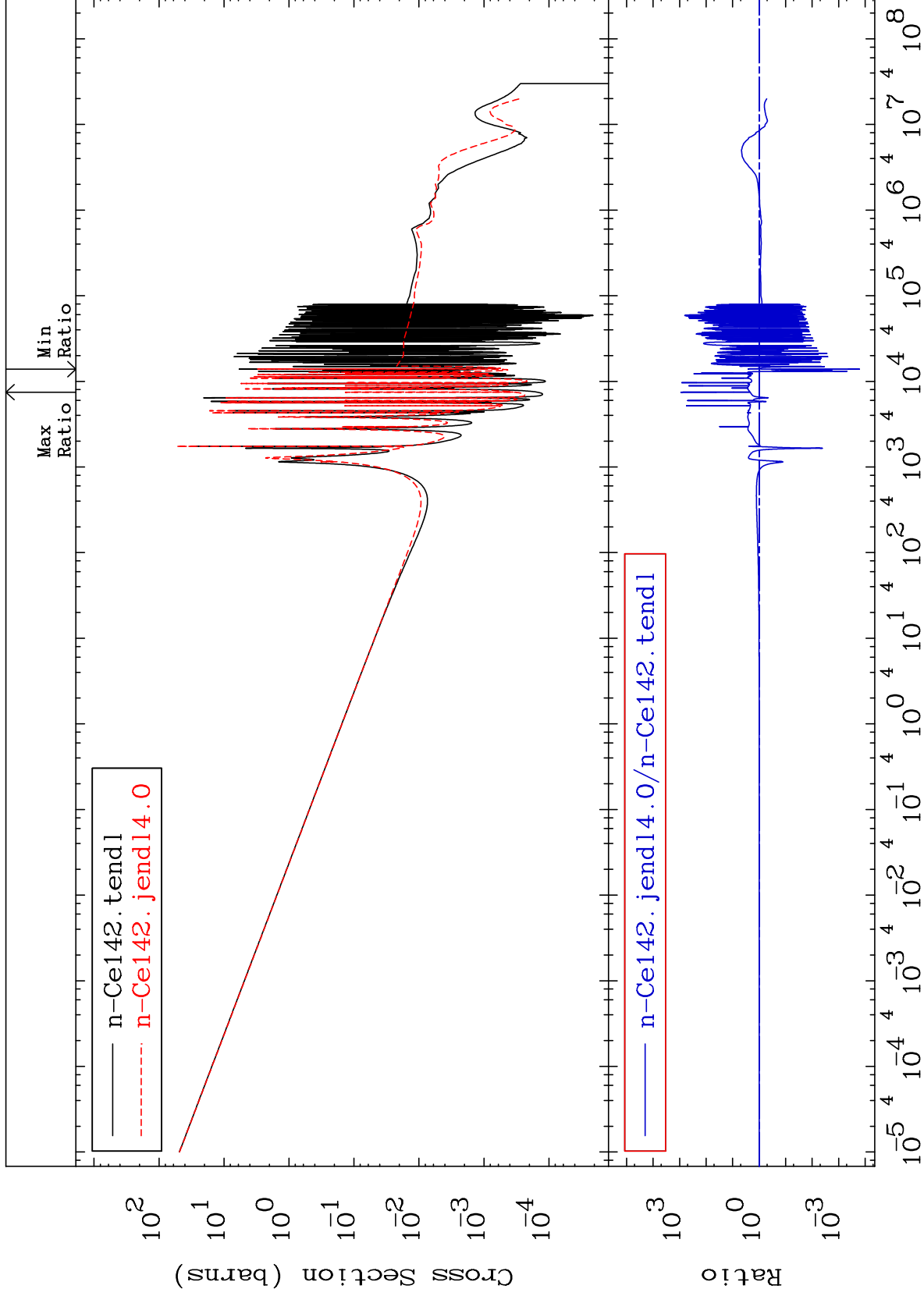
58-Ce-142
-20.97 To 123.8 %



MAT 5843

(n, γ)
Cross Section

58-Ce-142
-99.98 To 9999. %



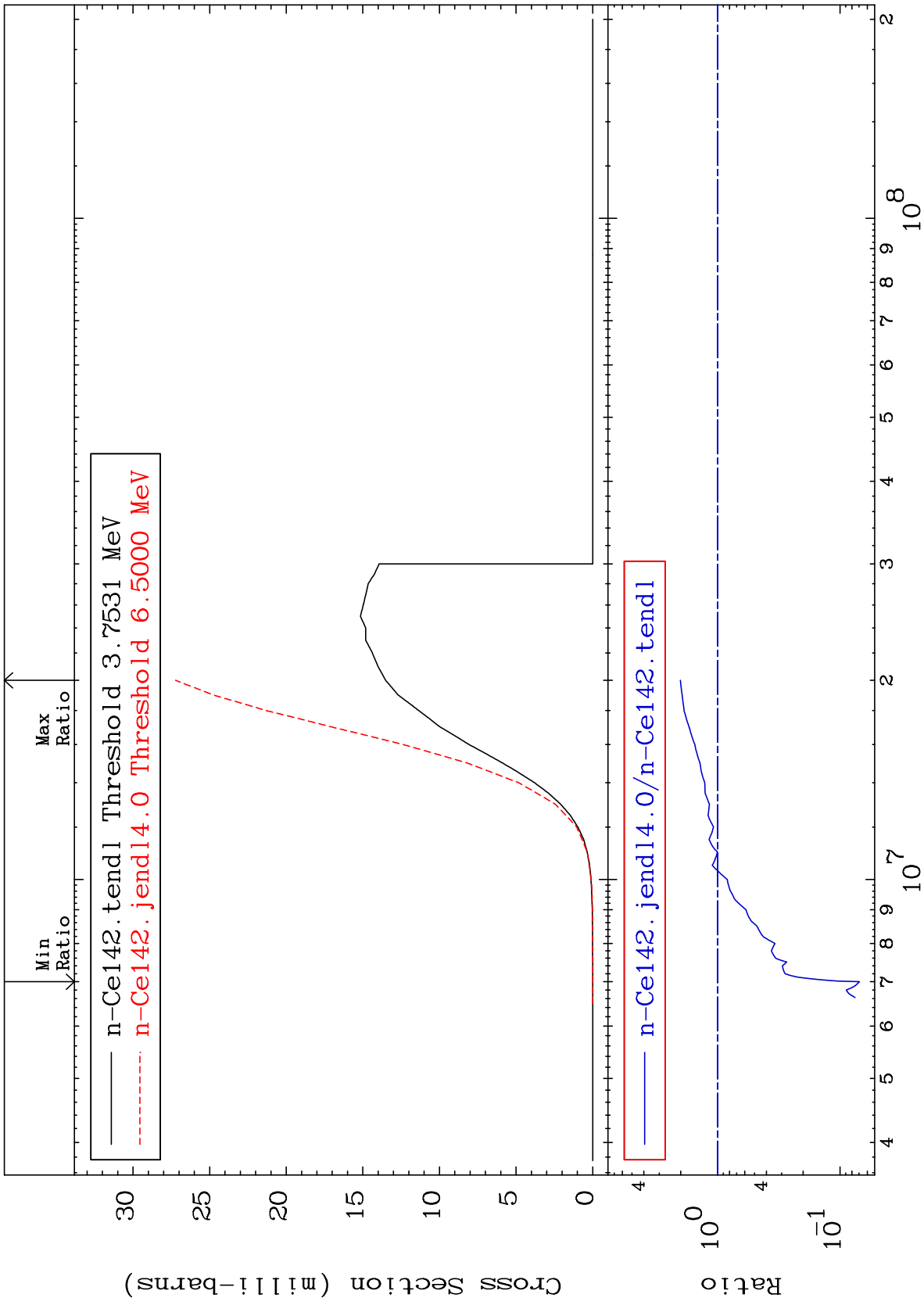
25

Incident Energy (eV)

58-Ce-142

MAT 5843

(n,p) Cross Section
58-Ce-142
-93.05 To 101.5 %



26

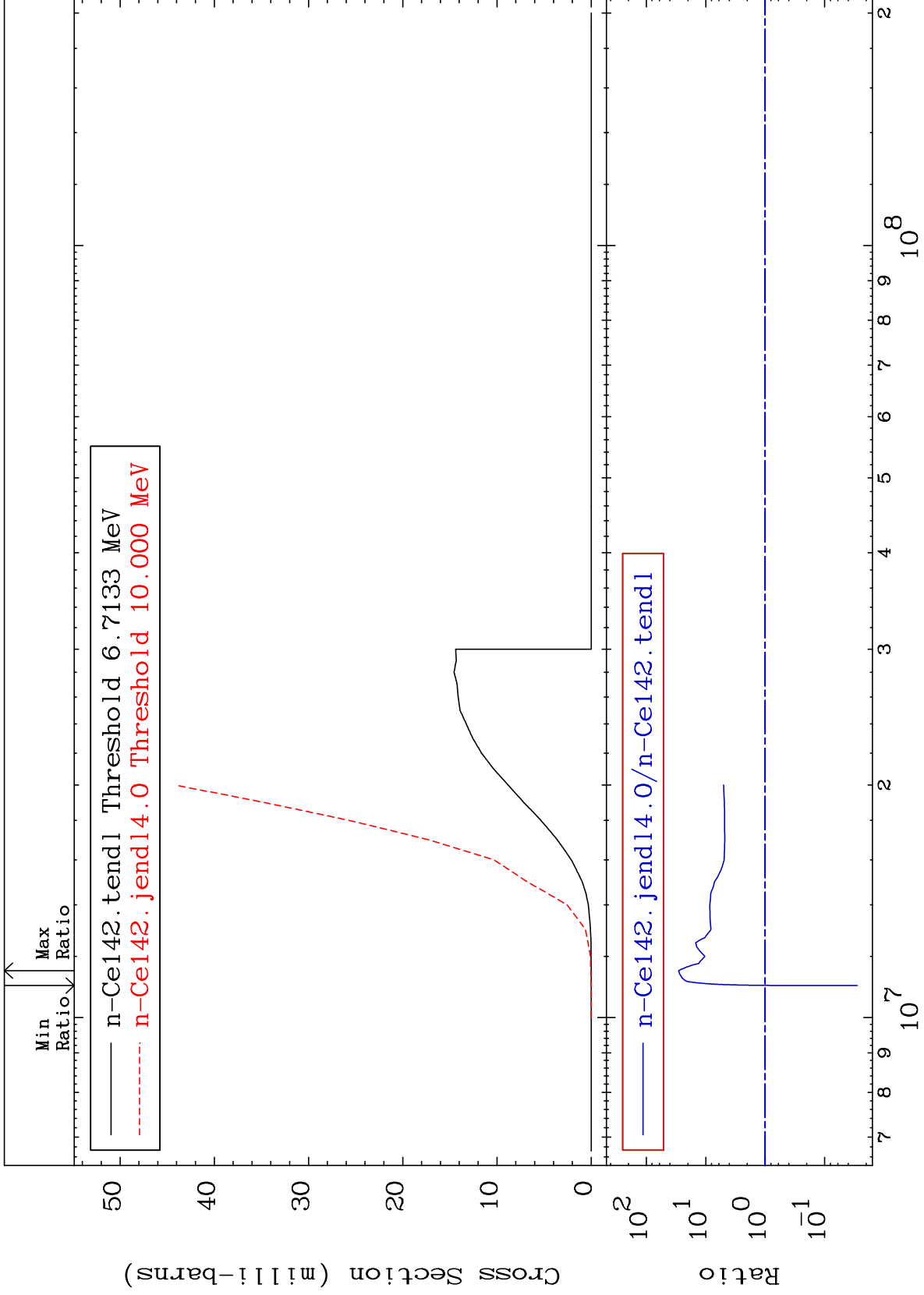
Incident Energy (eV)

58-Ce-142

MAT 5843

(n, d)
Cross Section

58-Ce-142
-97.17 To 2757. %



27

Incident Energy (eV)

58-Ce-142

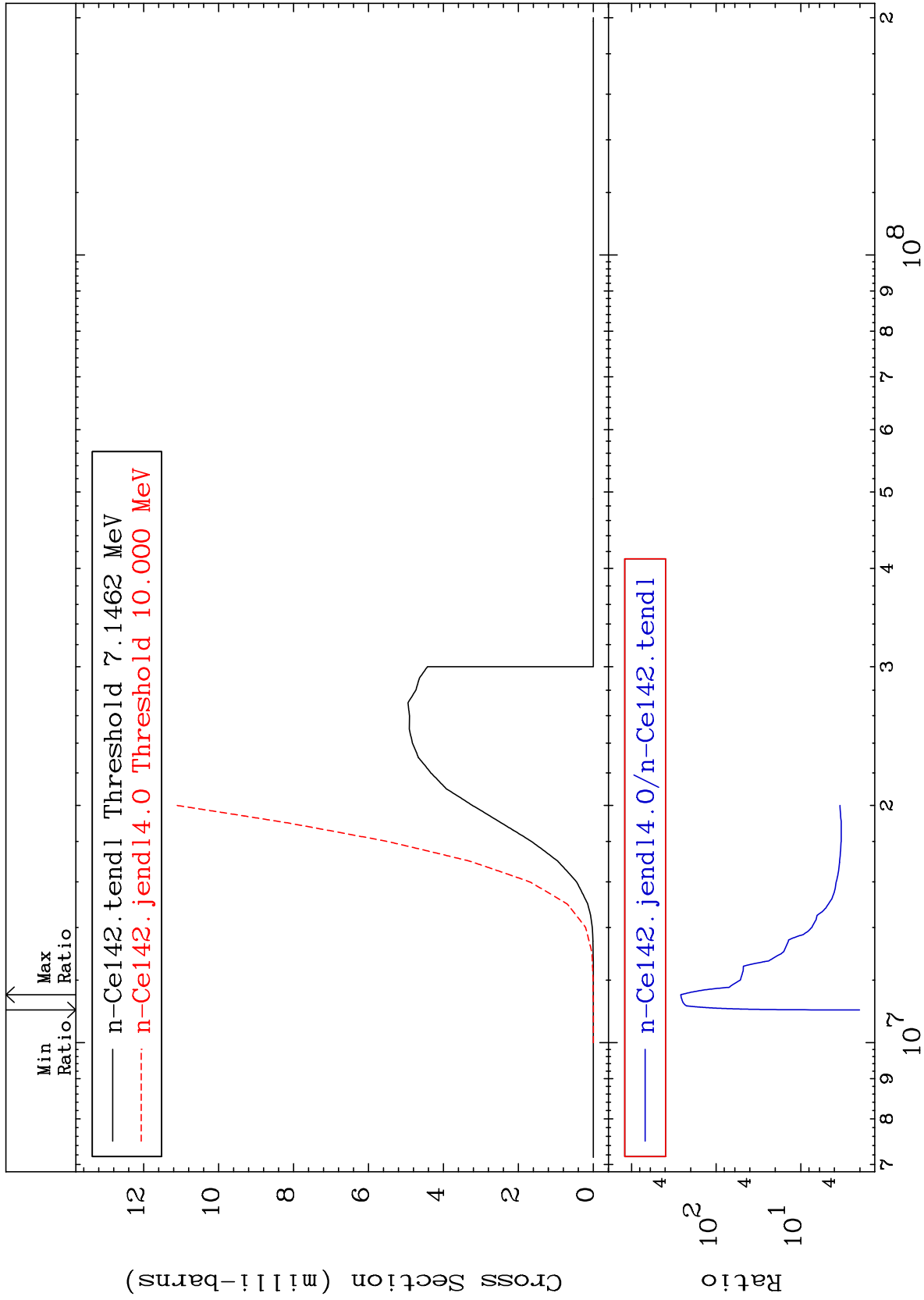
MAT 5843

(n, t)

58-Ce-142

Cross Section

102.1 To 9999. %



28

Incident Energy (eV)

58-Ce-142

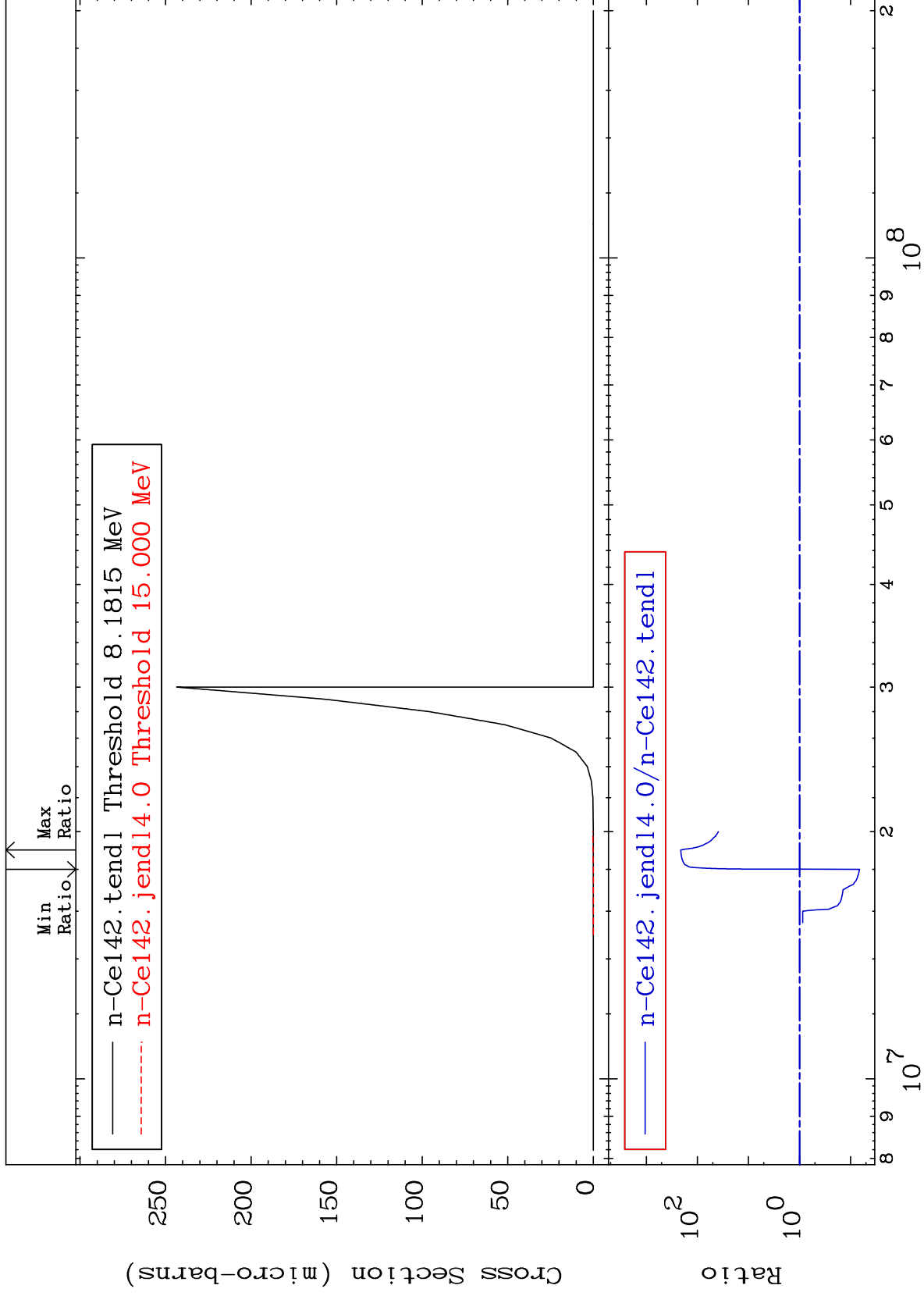
MAT 5843

(n, He-3)

58-Ce-142

Cross Section

-93.30 To 9999. %



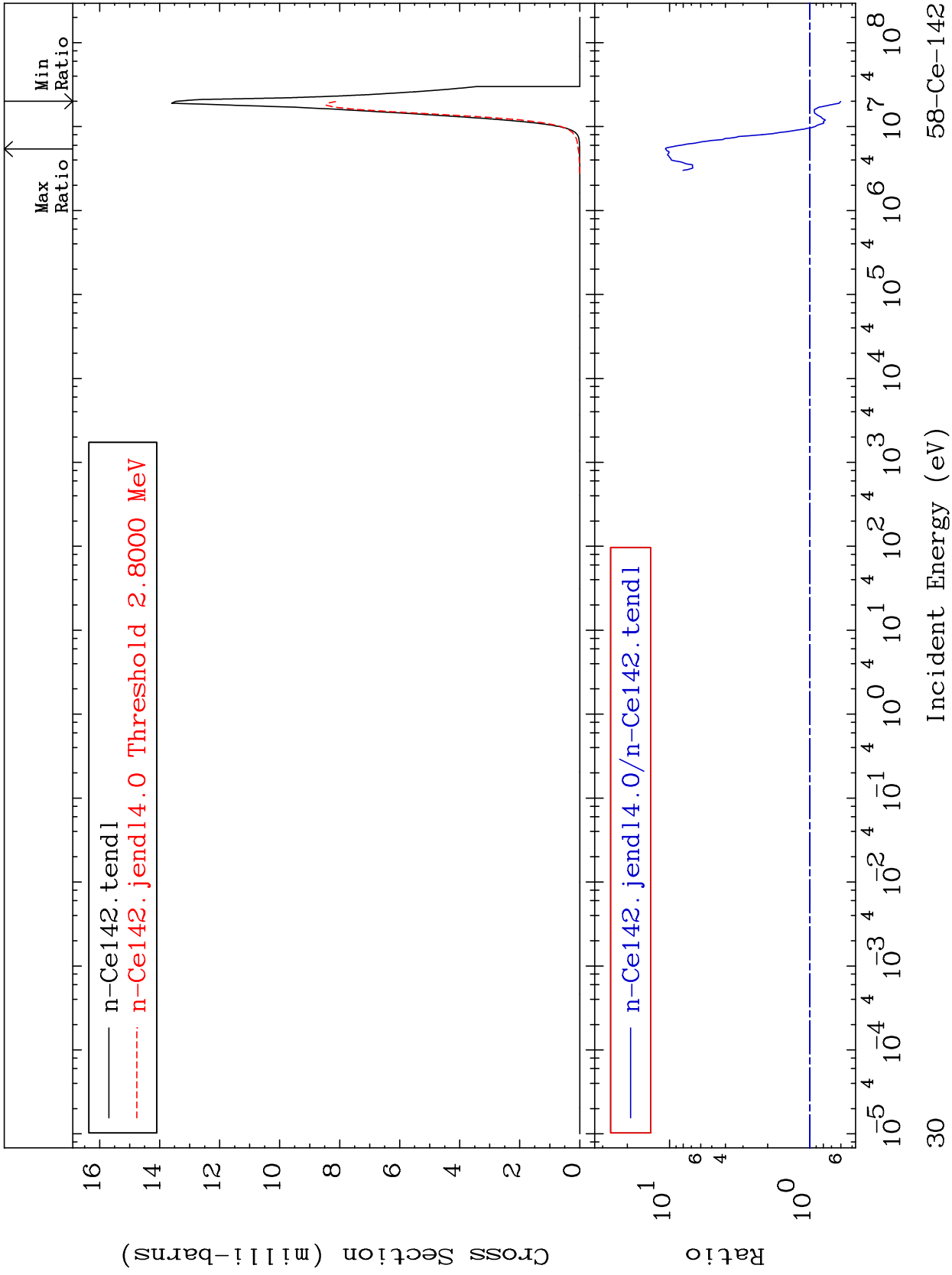
29

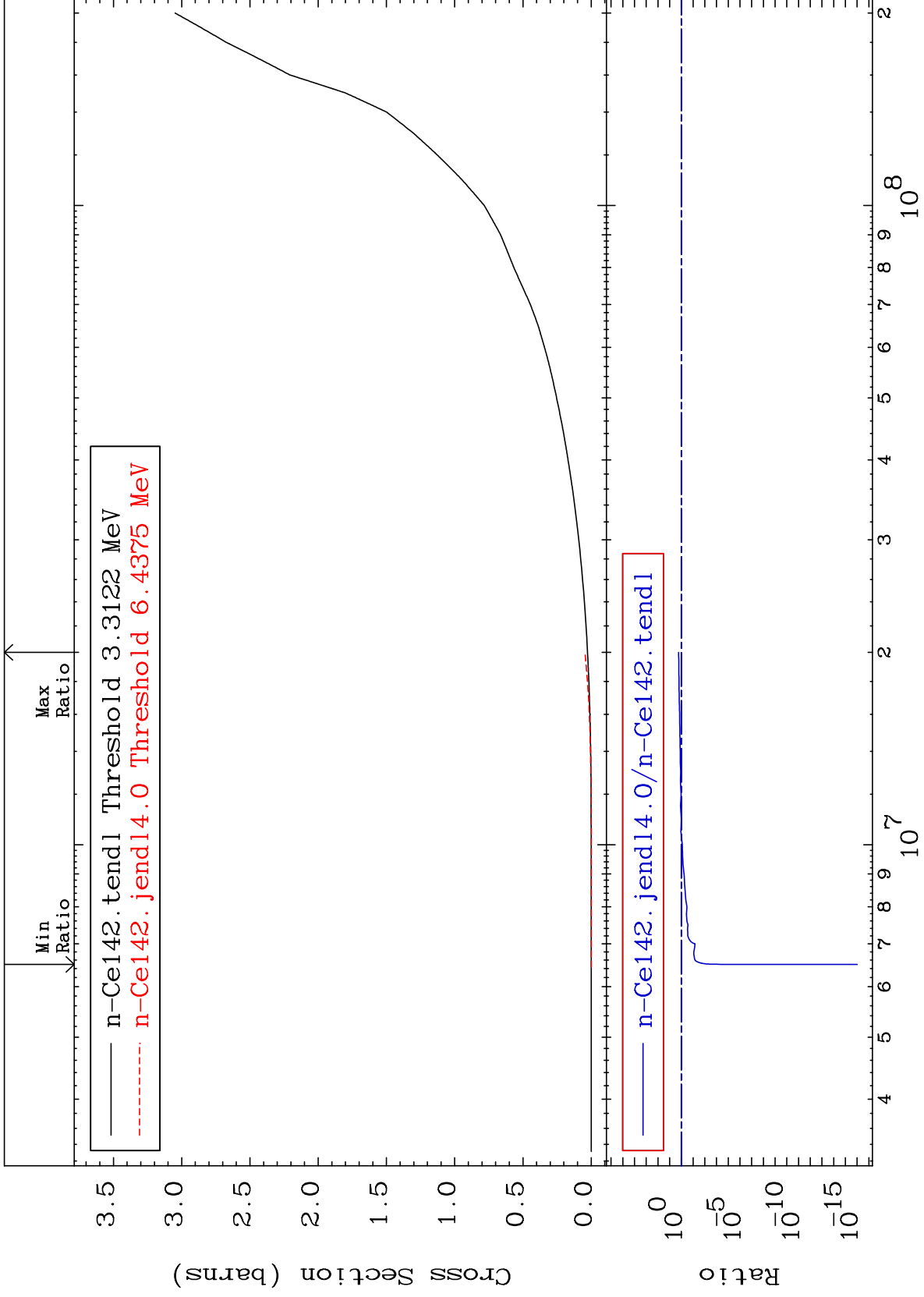
58-Ce-142

MAT 5843

(n, α)
Cross Section

58-Ce-142
-39.78 To 969.1 %

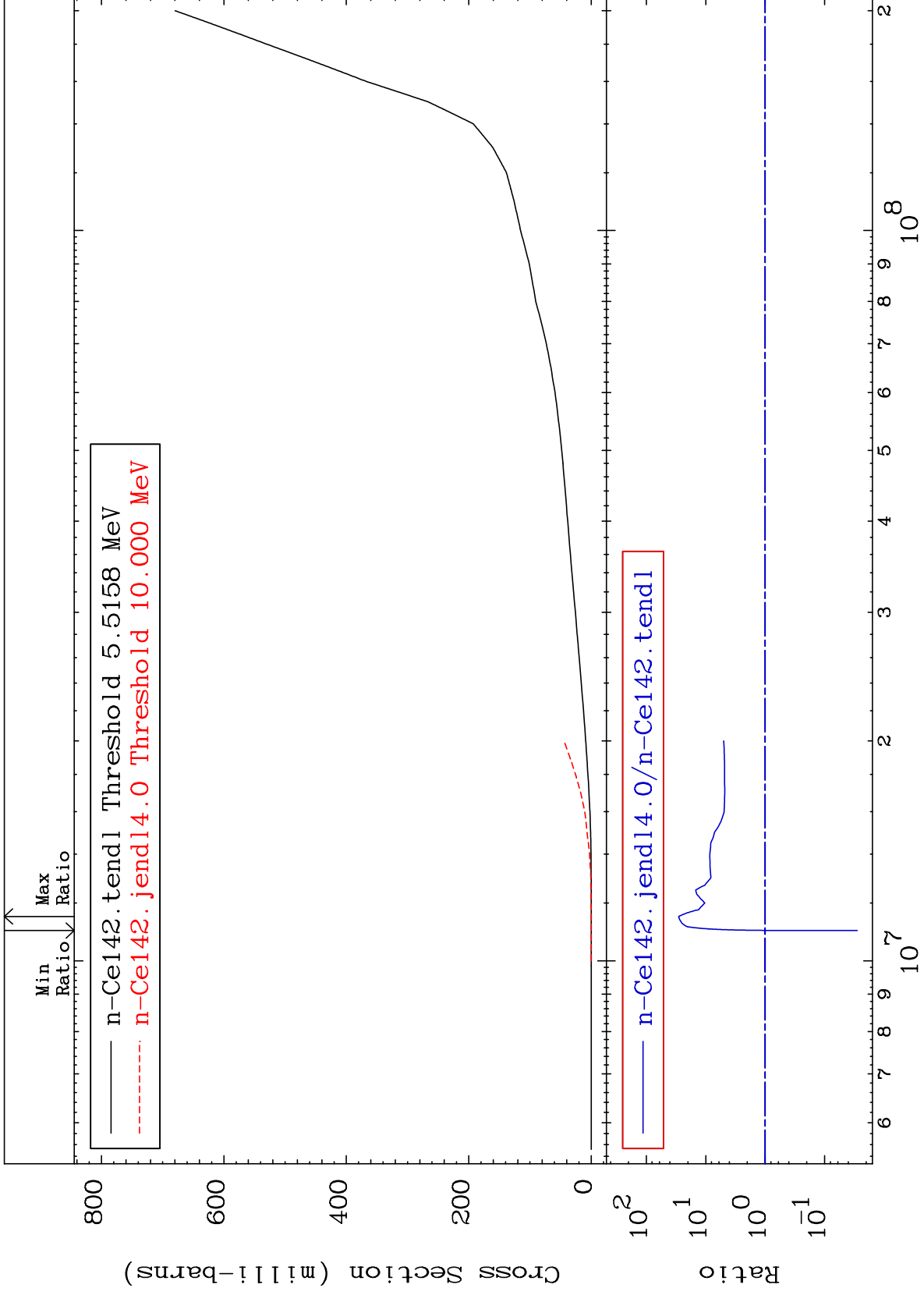




MAT 5843

Deuterium Production
Cross Section

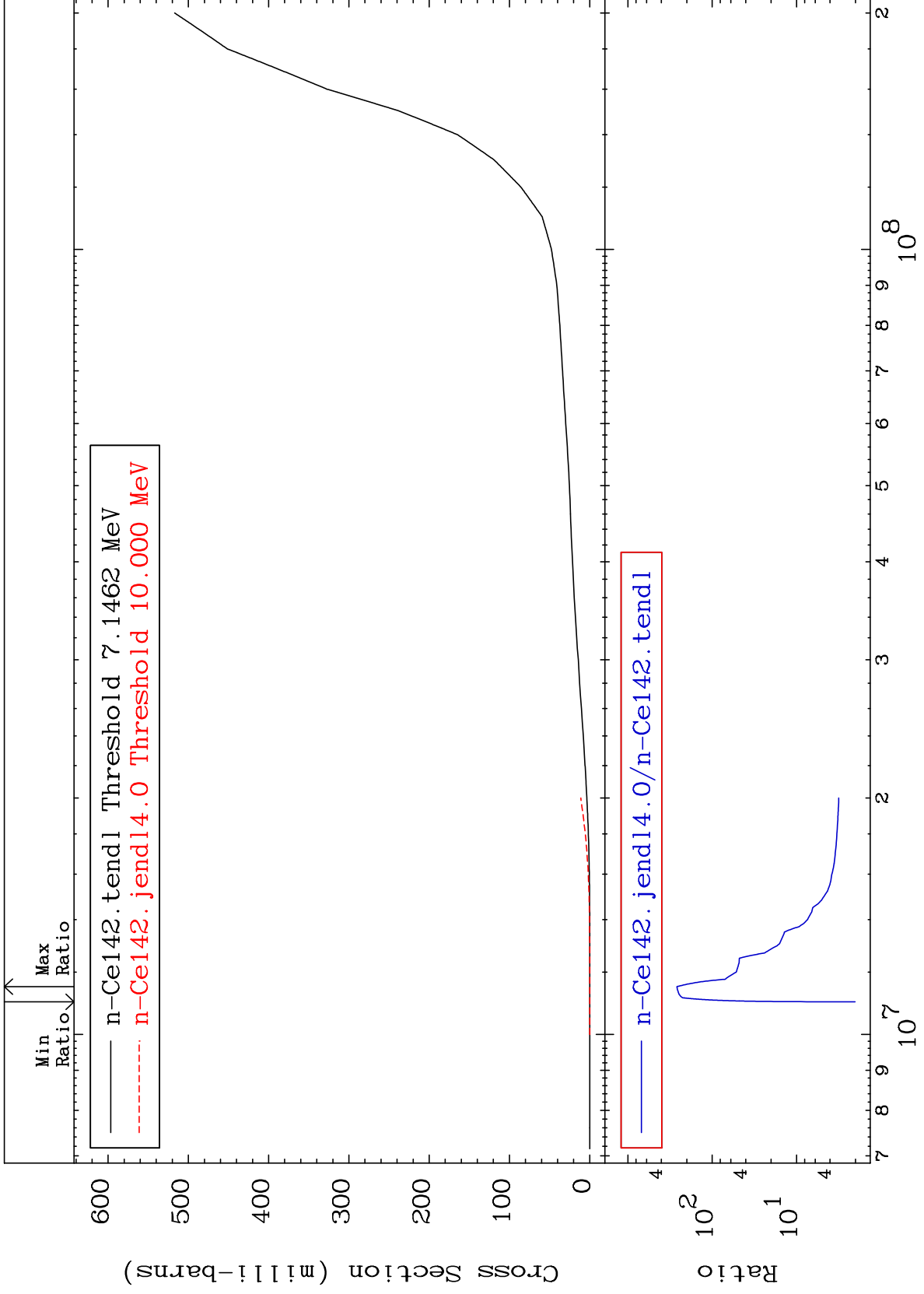
58-Ce-142
-97.17 To 2757. %



MAT 5843

Tritium Production
Cross Section

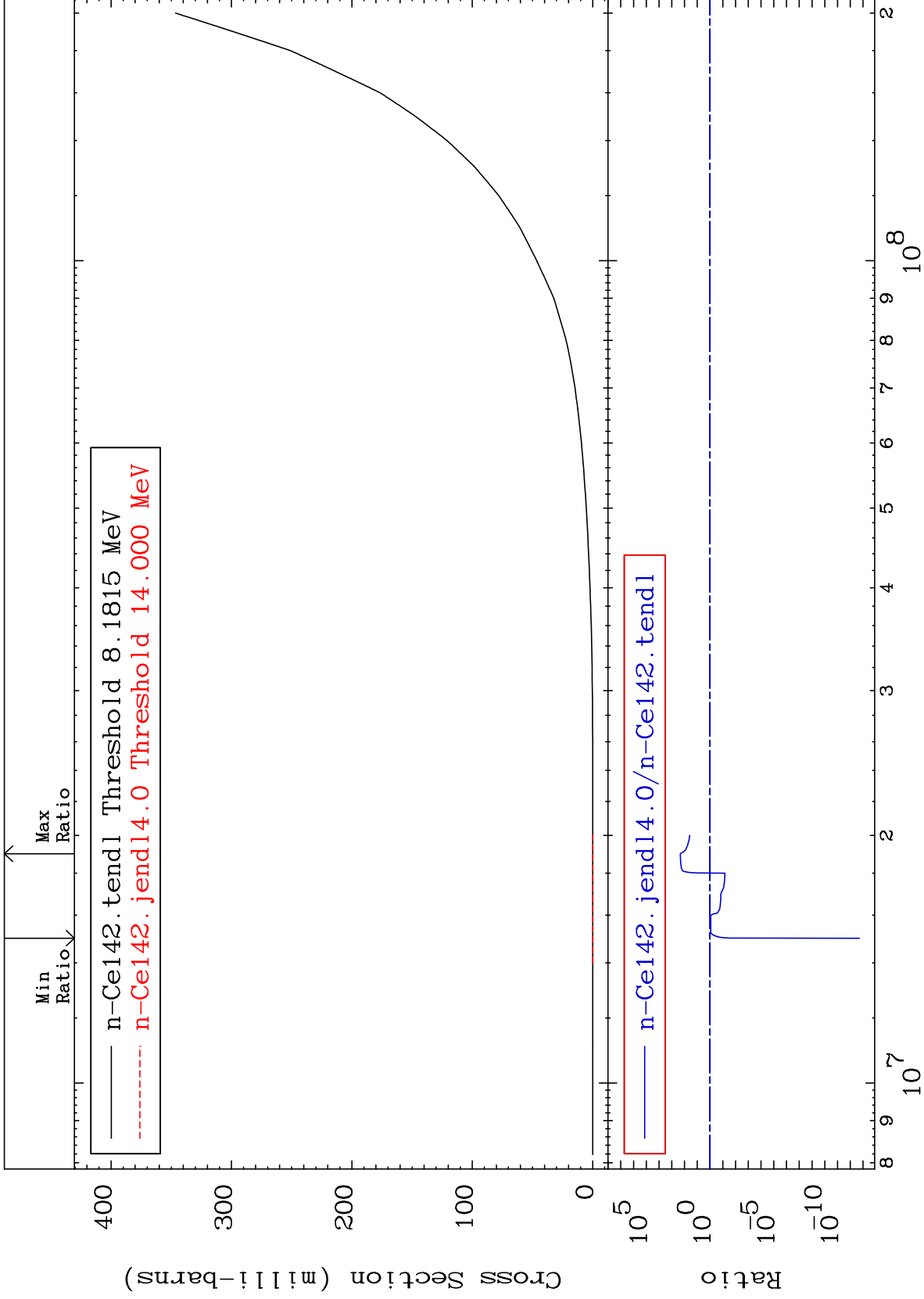
58-Ce-142
102.1 To 9999. %



MAT 5843

He-3 Production
Cross Section

58-Ce-142
-100.0 To 9999. %



34

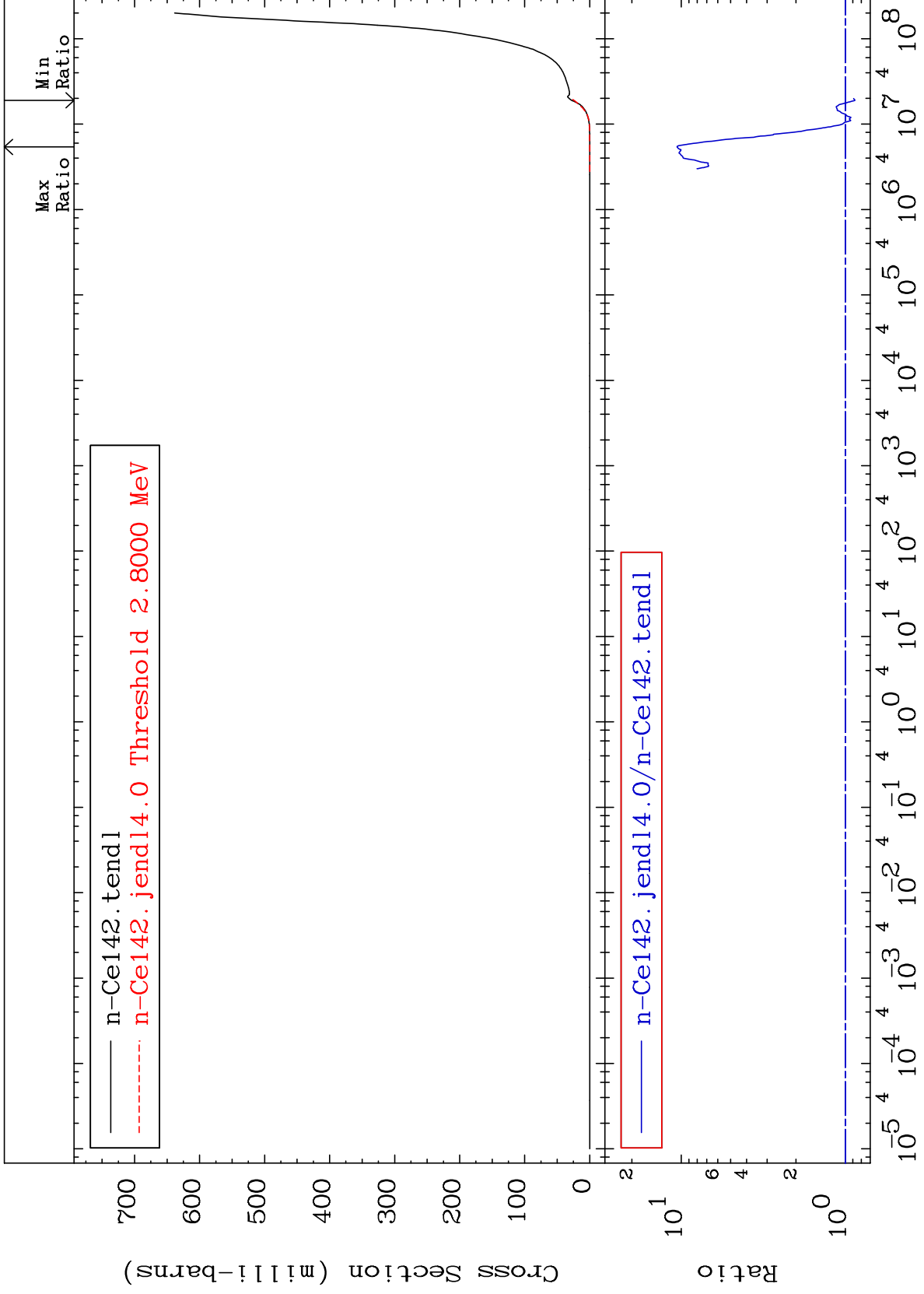
Incident Energy (eV)

58-Ce-142

MAT 5843

He-4 Production
Cross Section

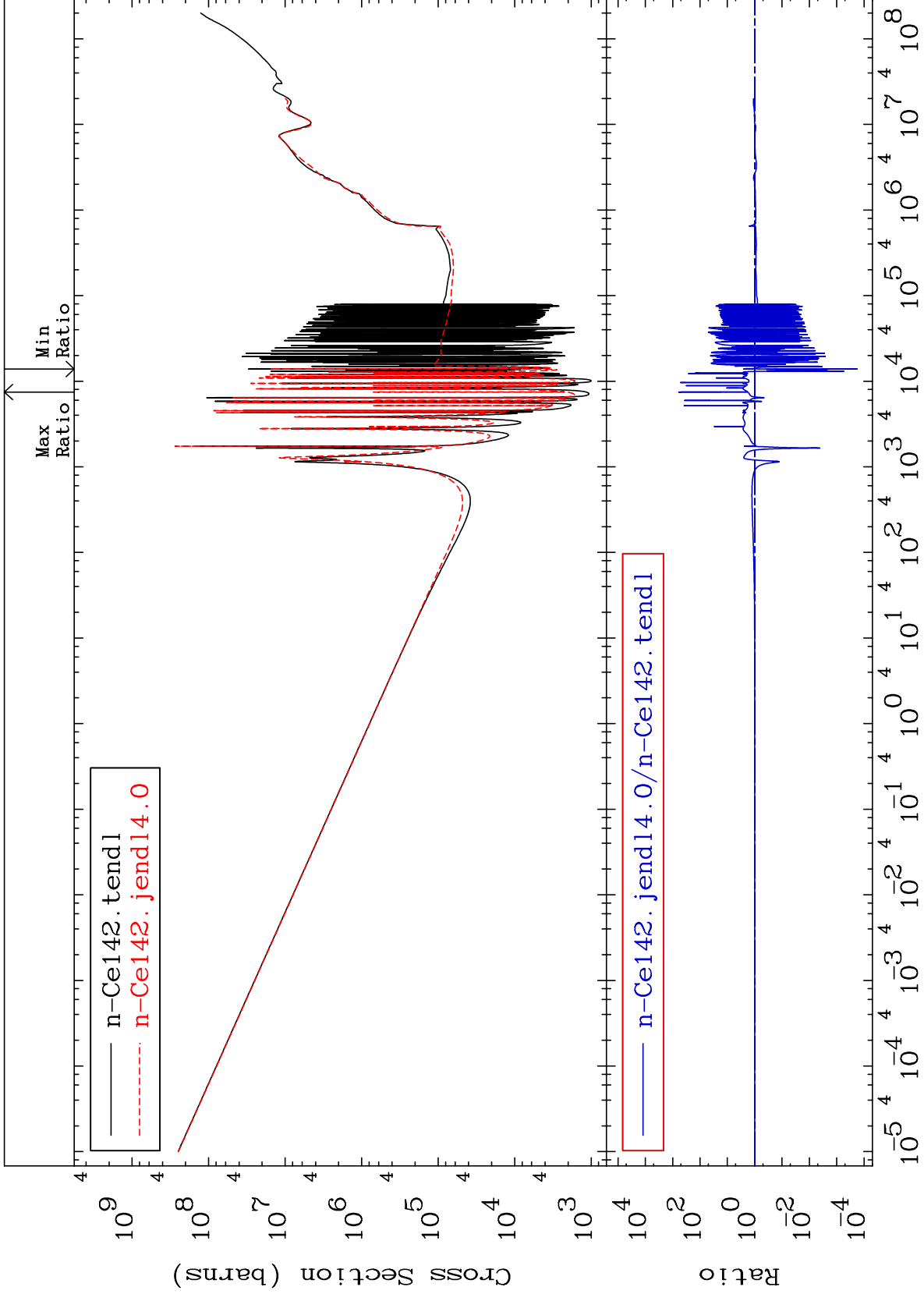
58-Ce-142
-12.79 To 963.8 %



35

Incident Energy (eV)

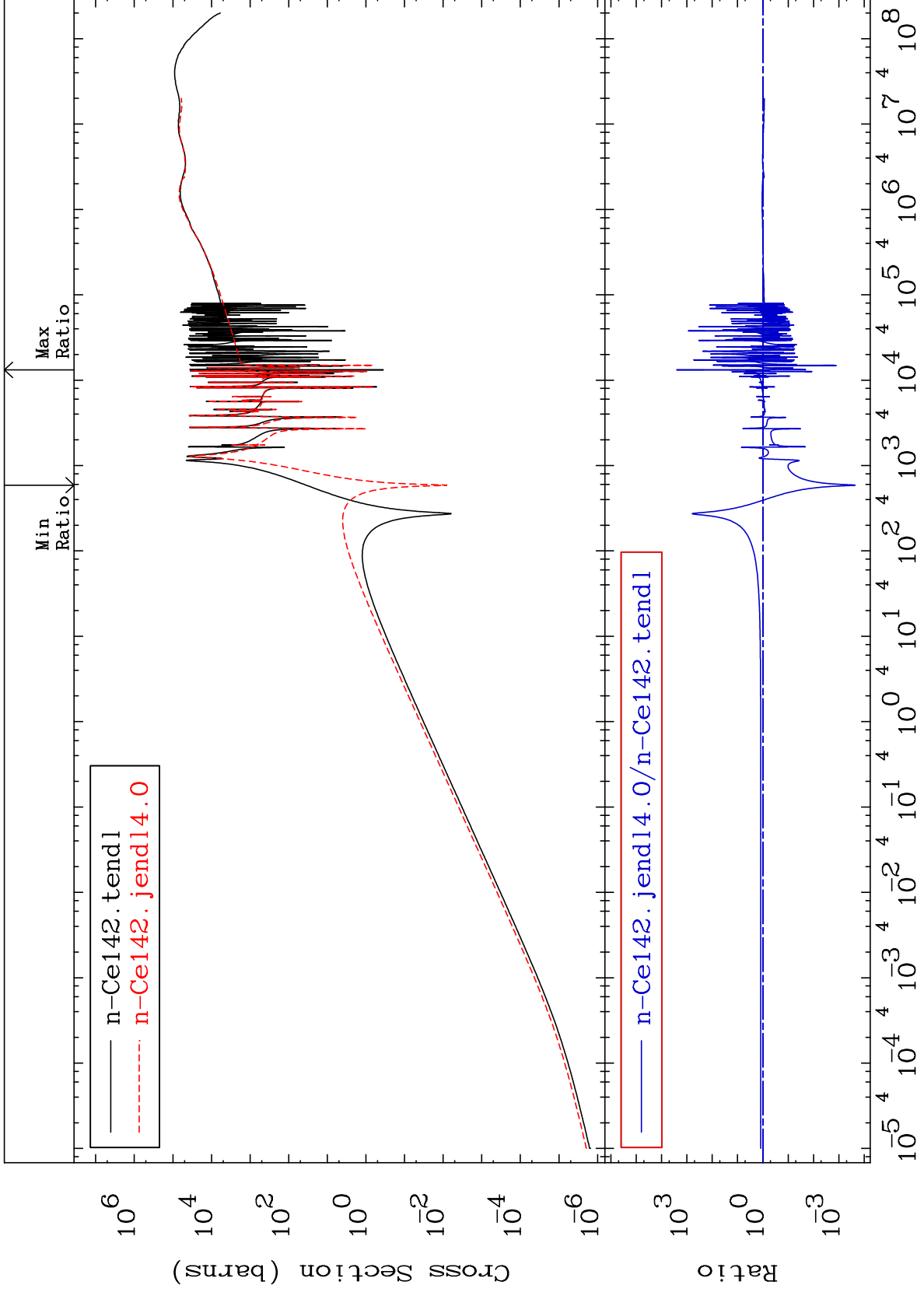
58-Ce-142



MAT 5843

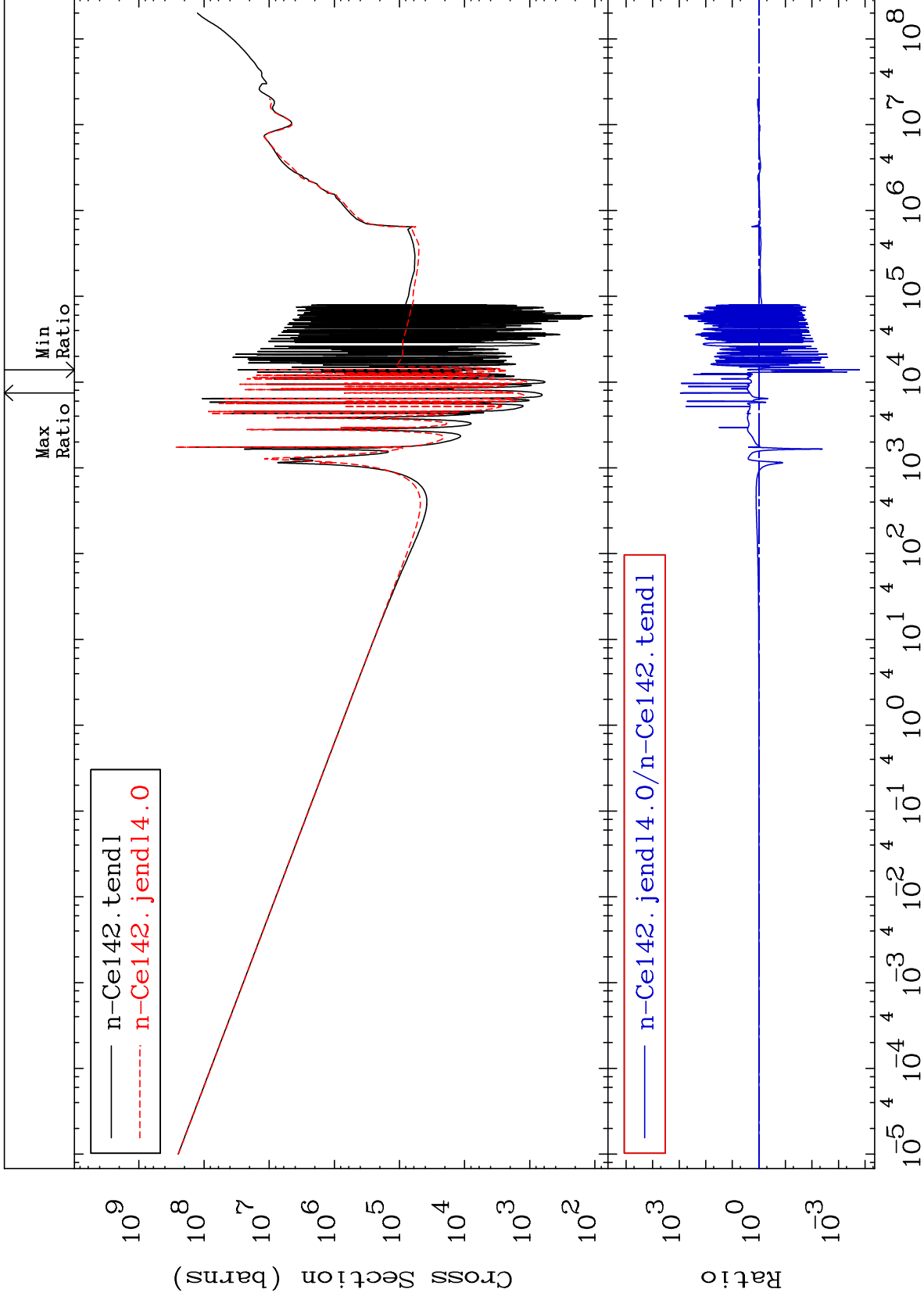
Kerma elastic
Cross Section

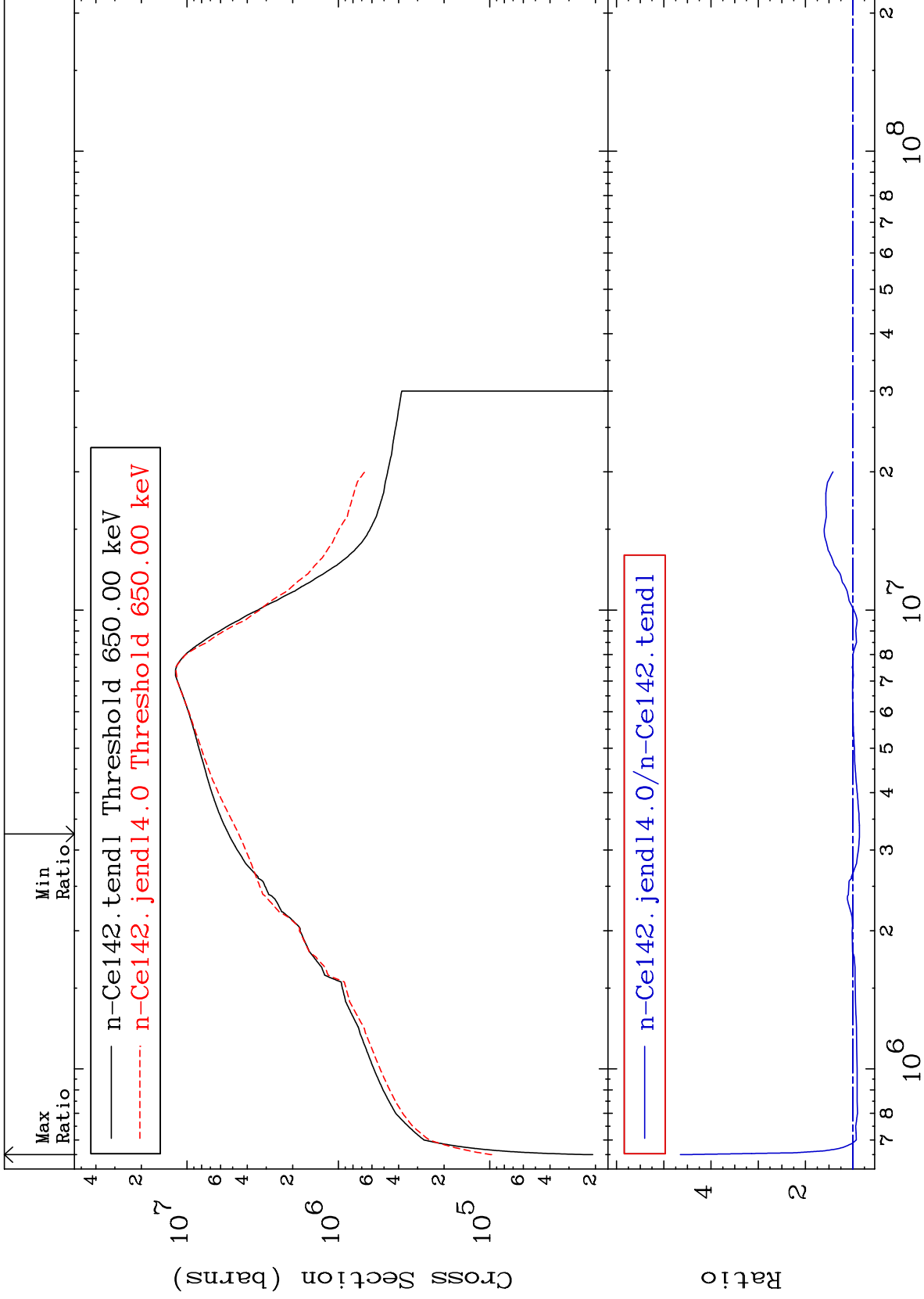
58-Ce-142
-99.98 To 9999. %



— n-Ce142.tendl
- - - n-Ce142.jendl4.0

— n-Ce142.jendl4.0/n-Ce142.tendl

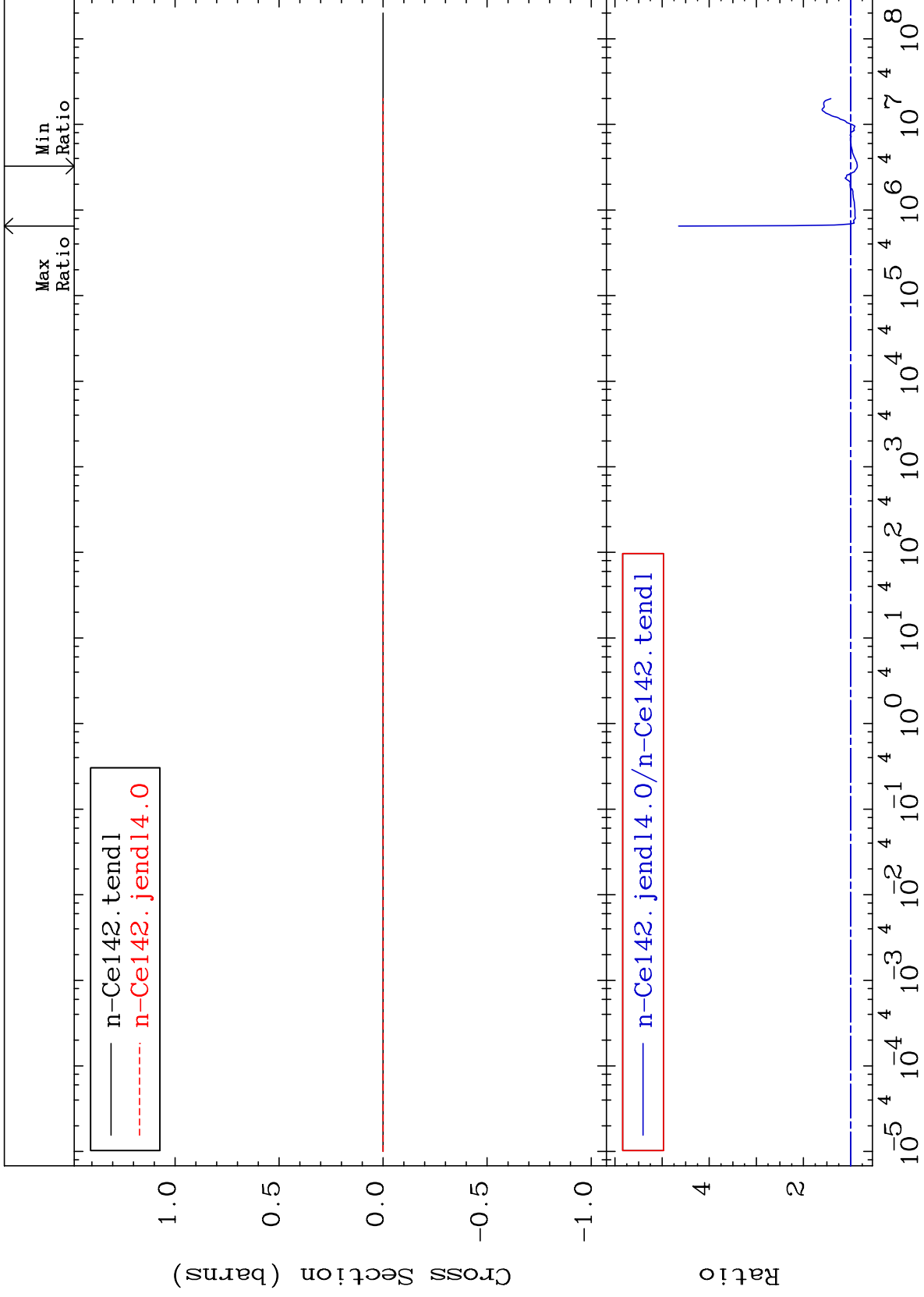




MAT 5843

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

58-Ce-142
-14.26 To 365.0 %



Incident Energy (eV)

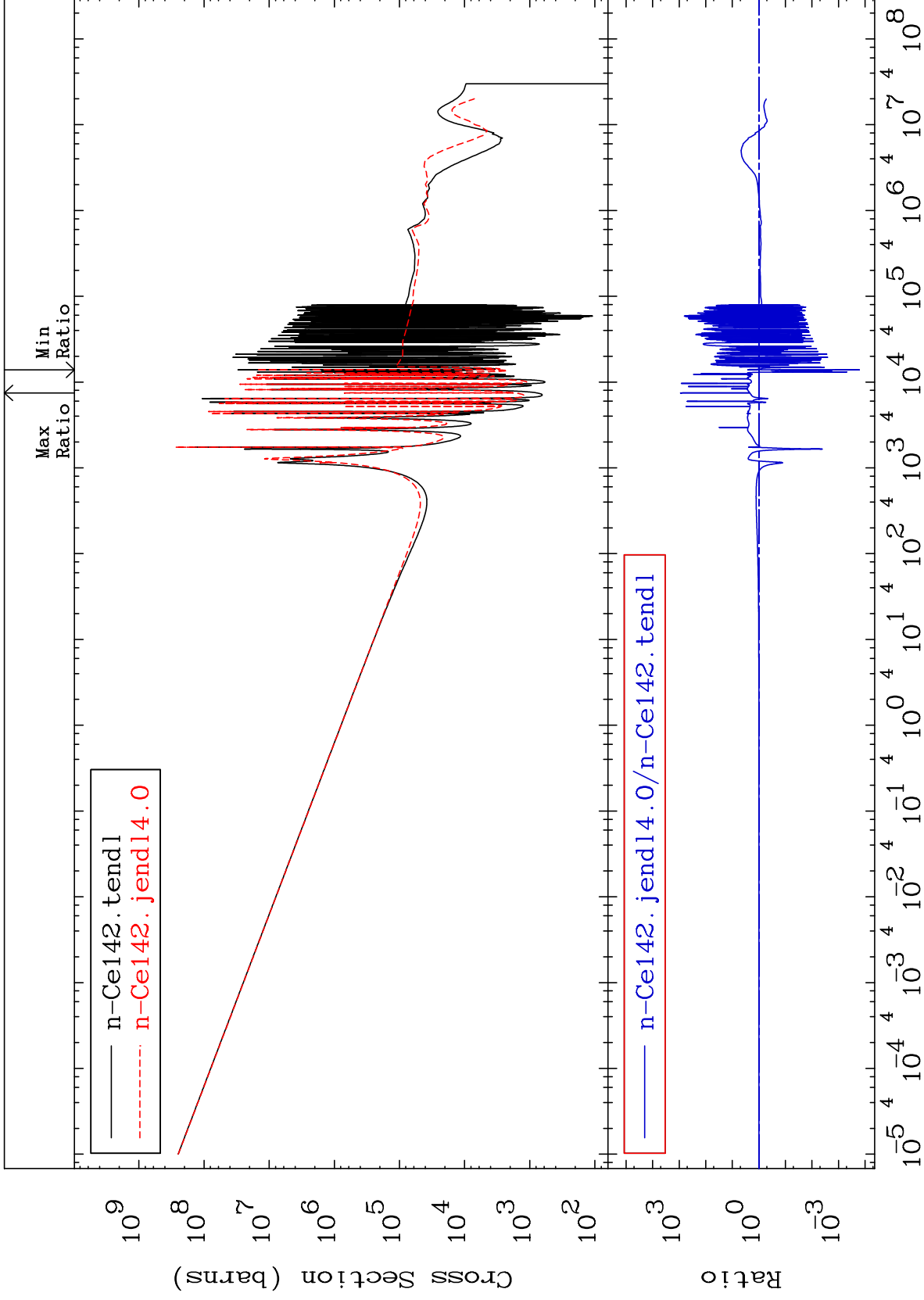
58-Ce-142

40

MAT 5843

Kerma capture (mt102)
Cross Section

58-Ce-142
-99.98 To 9999. %



41

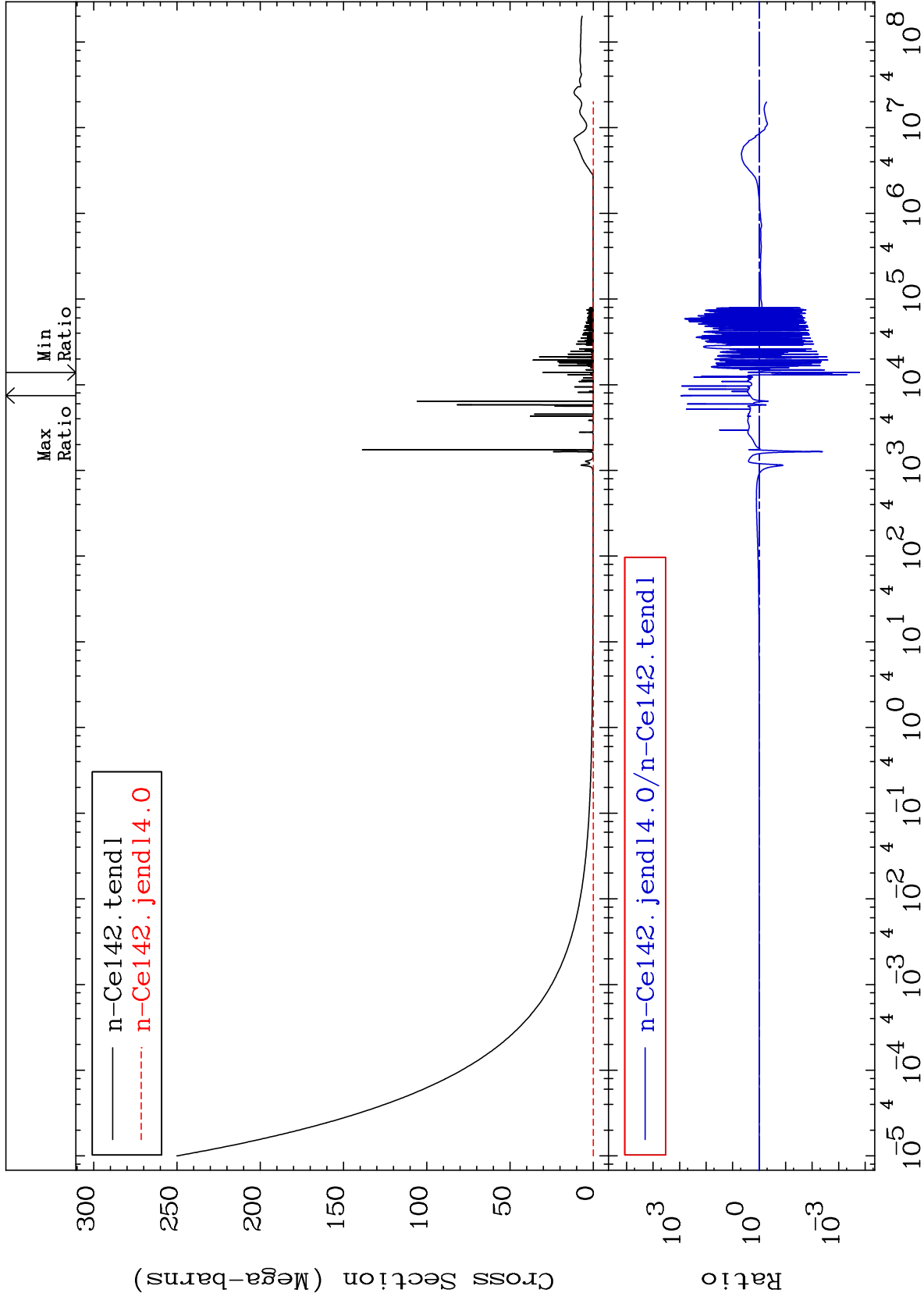
Incident Energy (eV)

58-Ce-142

MAT 5843

Total photon (eV-barns)
Cross Section

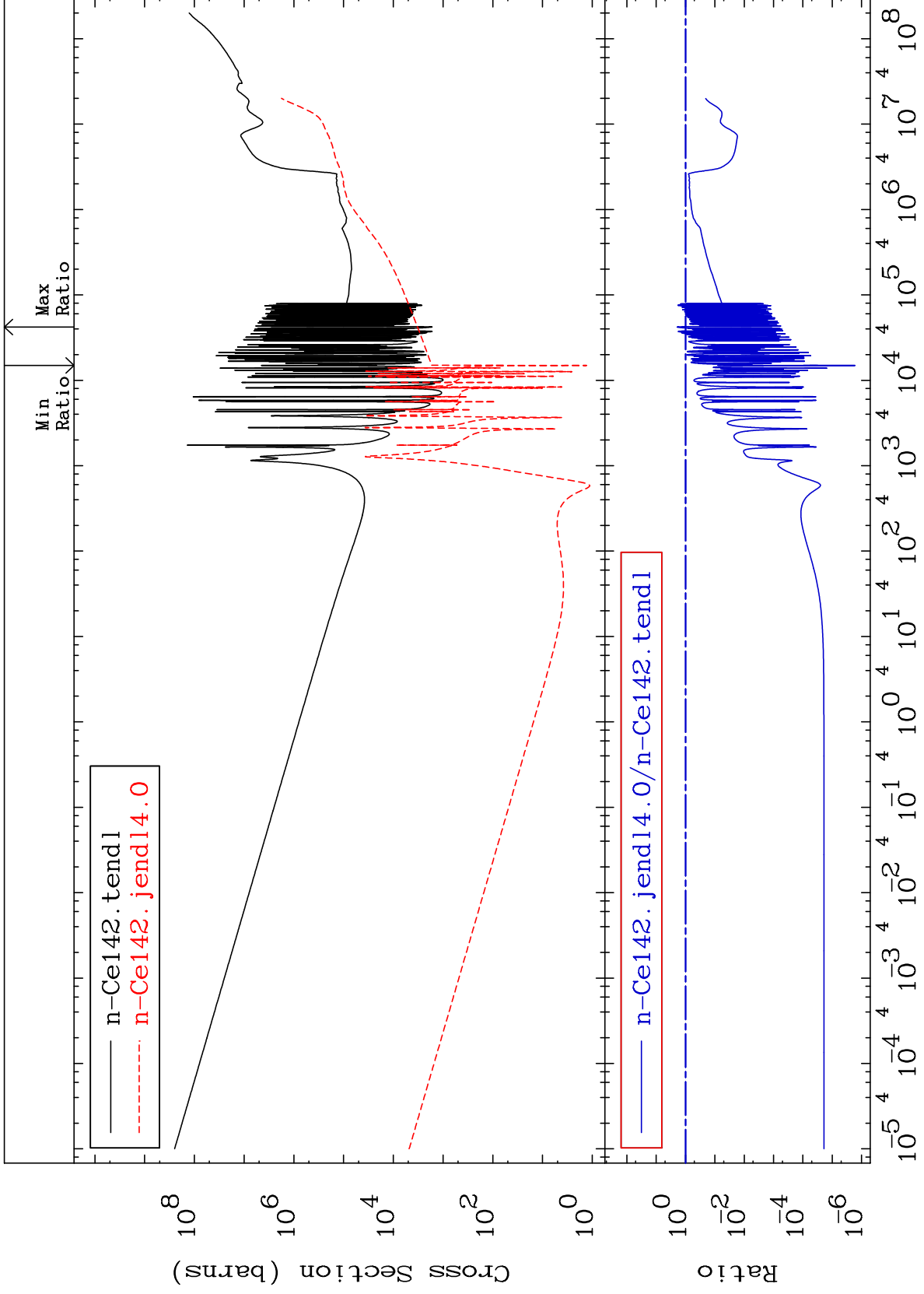
58-Ce-142
-99.98 To 9999. %

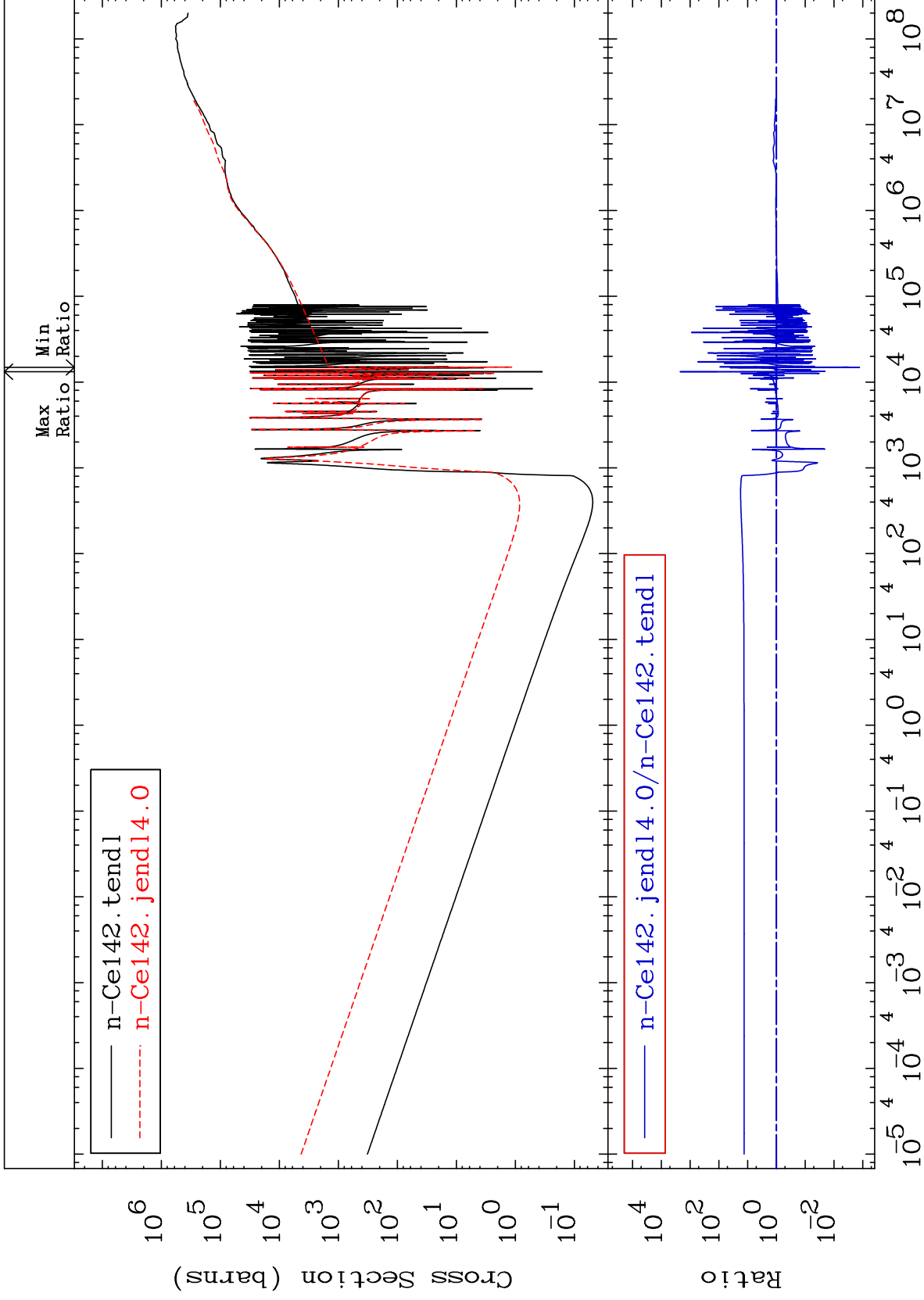


42

Incident Energy (eV)

58-Ce-142

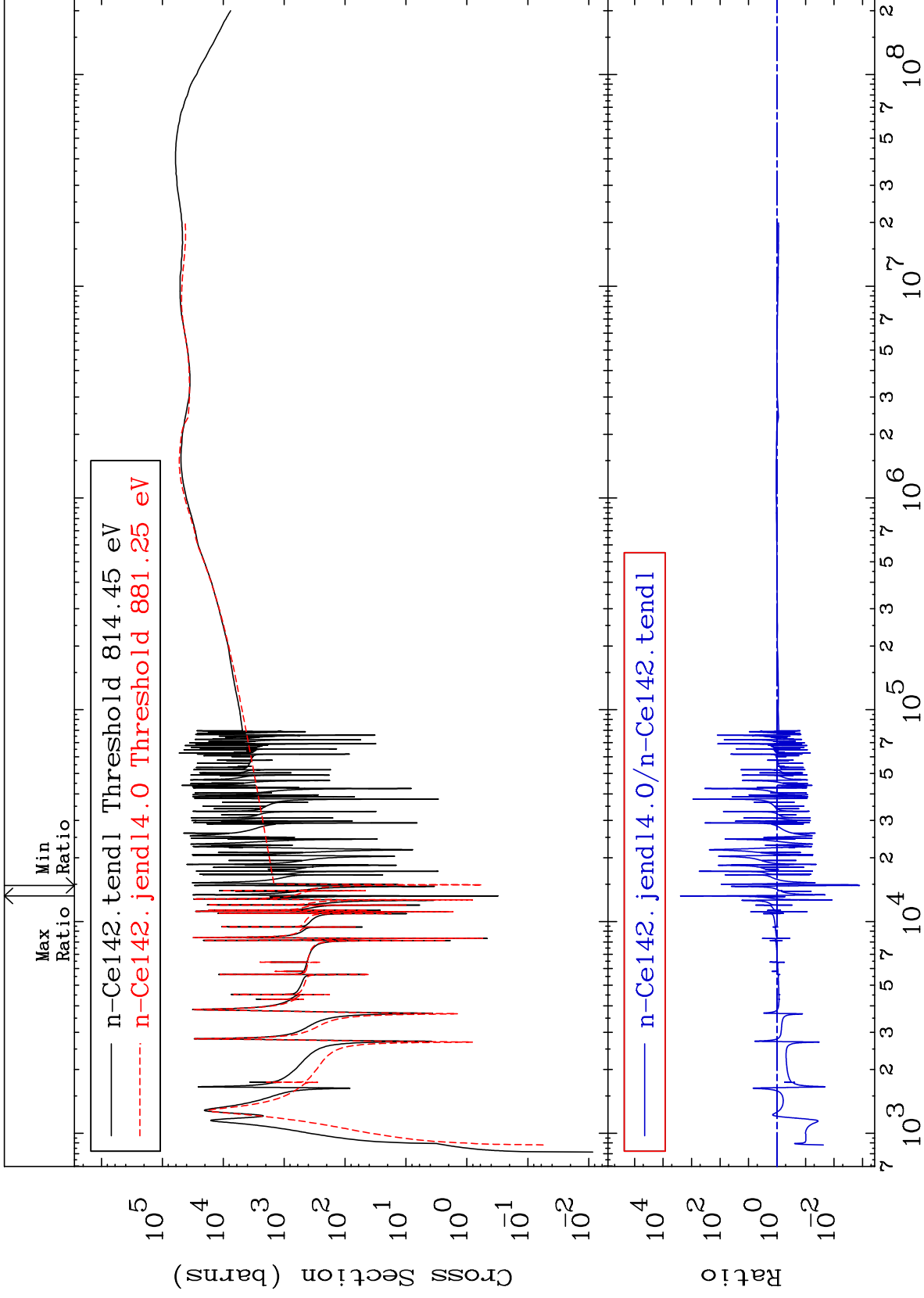




MAT 5843

Dpa elastic (mt2)
Cross Section

58-Ce-142
-99.87 To 9999. %



45

Incident Energy (eV)

58-Ce-142

MAT 5843

Dpa inelastic (mt51-91)
Cross Section

58-Ce-142
-10.19 To 365.2 %

