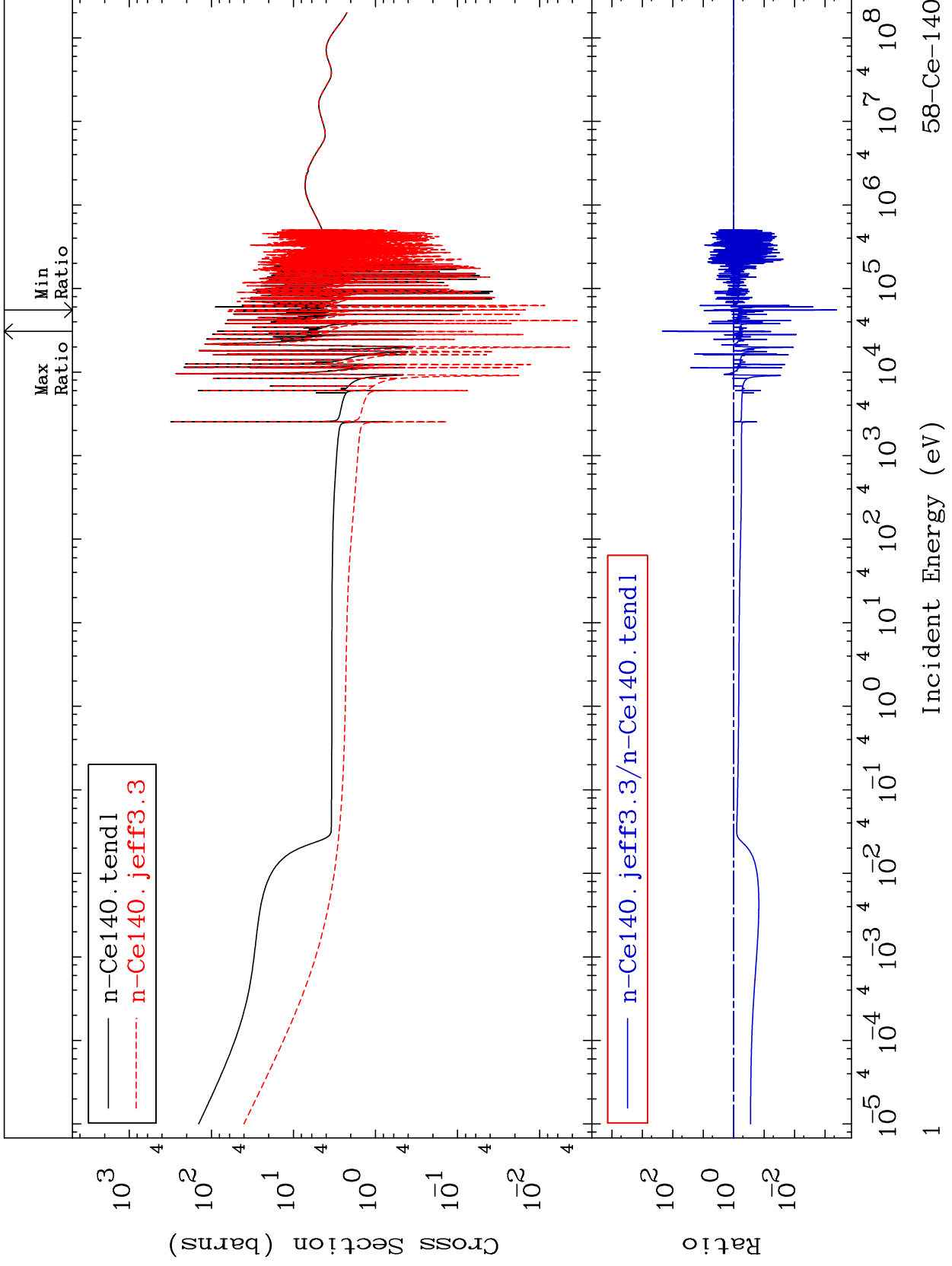


MAT 5837

Total
Cross Section

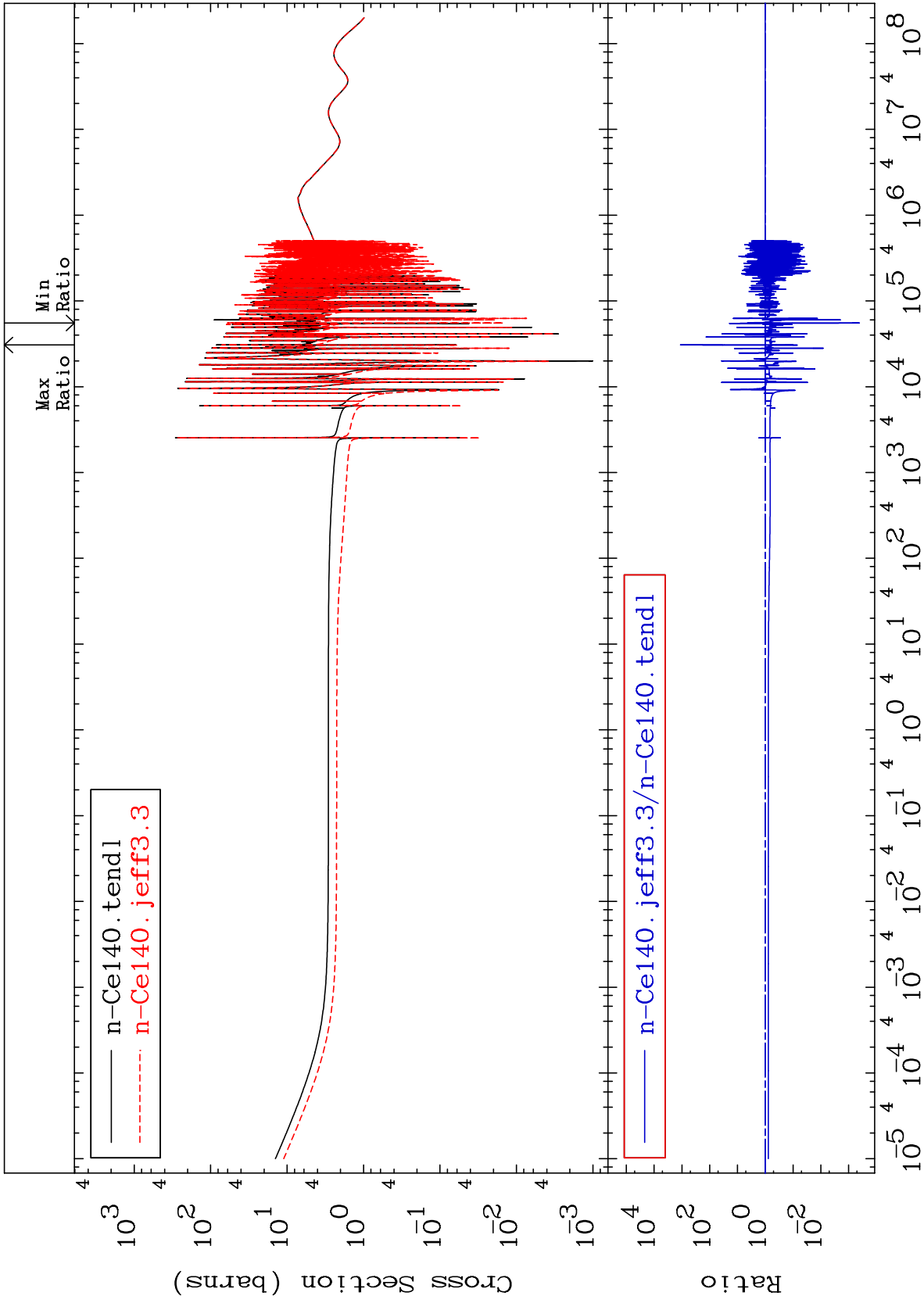
58-Ce-140
-99.96 To 9999. %



MAT 5837

Elastic
Cross Section

58-Ce-140
-99.96 To 9999. %

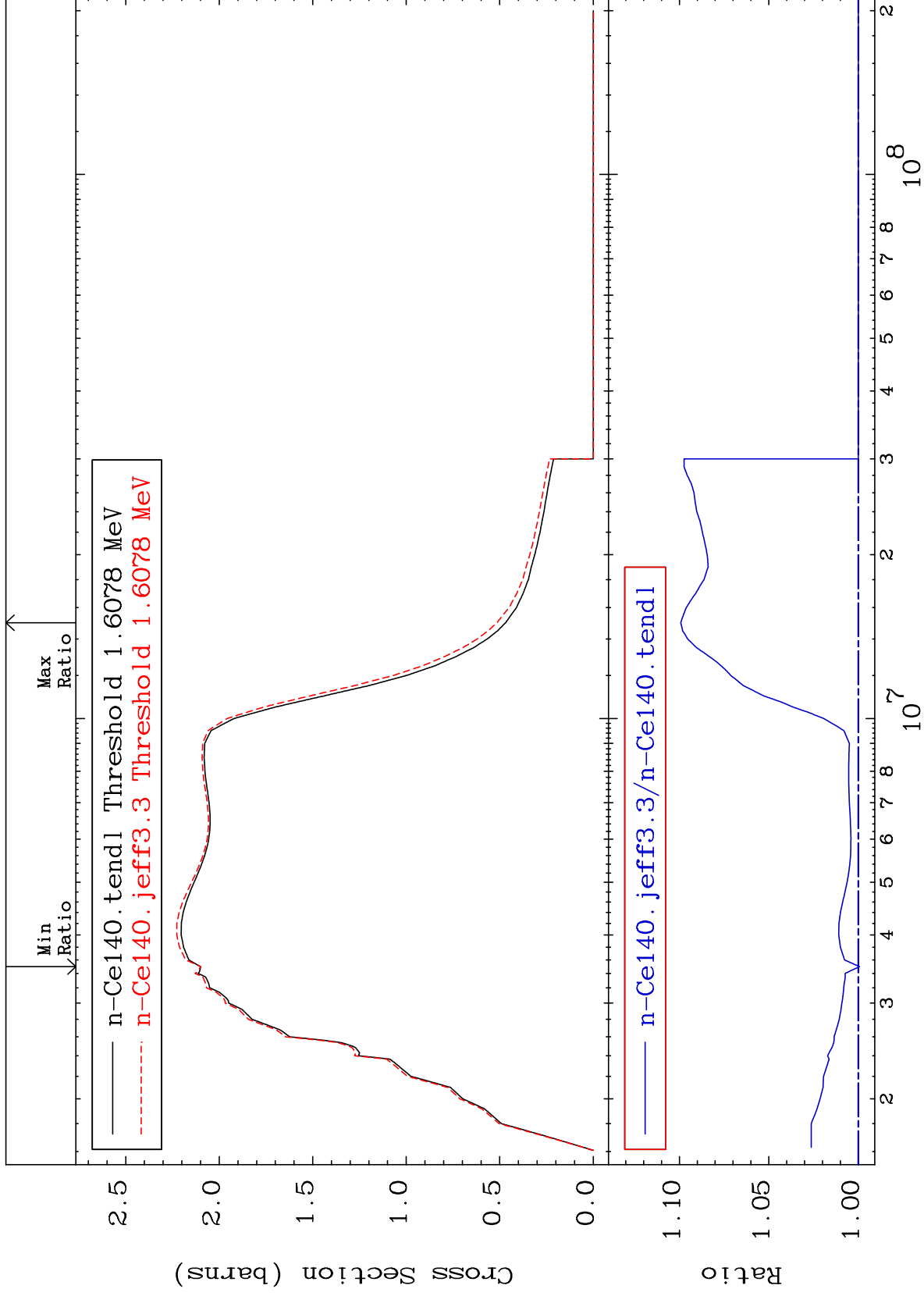


MAT 5837

58-Ce-140

Inelastic
Cross Section

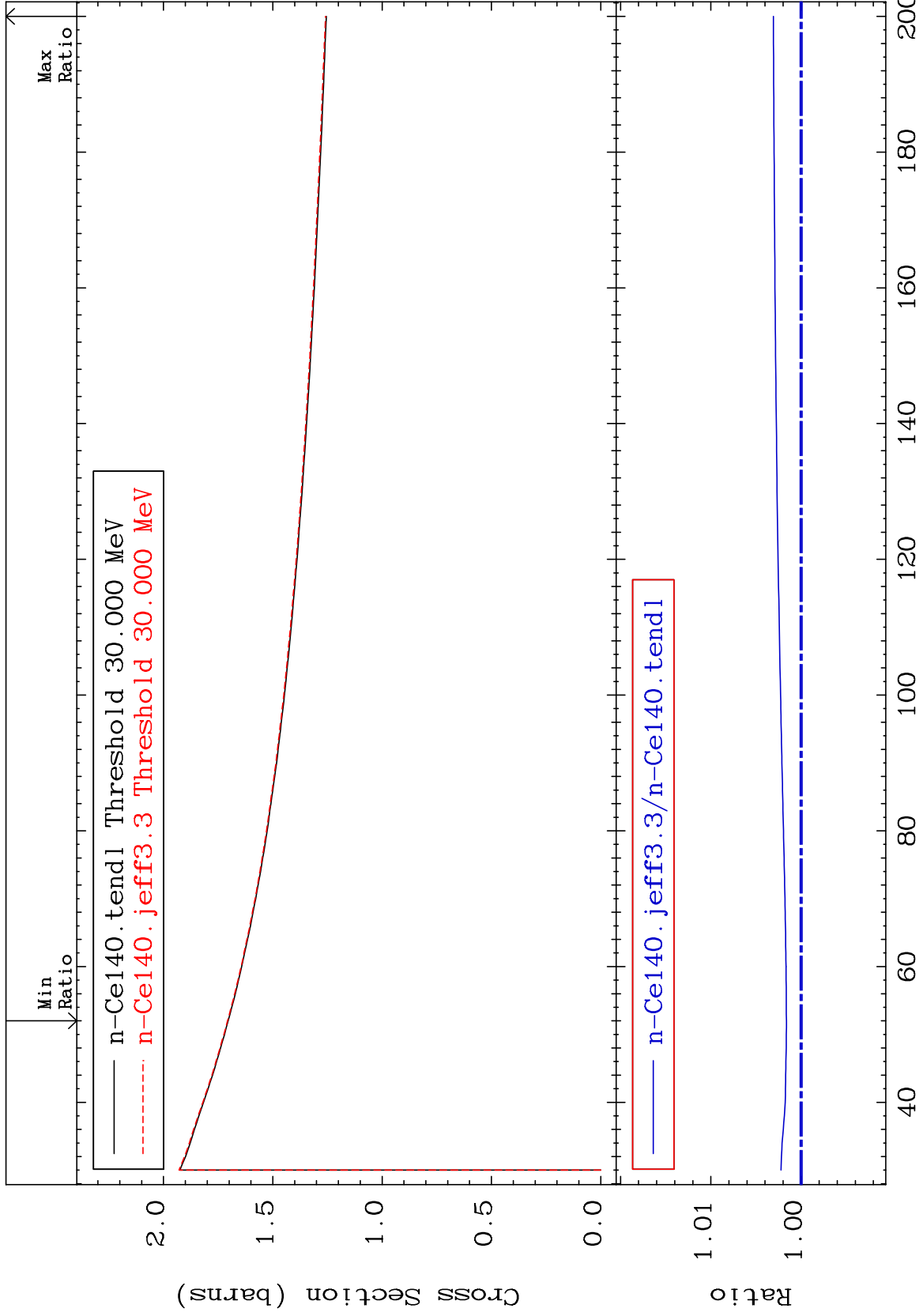
-0.066 To 9.922 %



MAT 5837

(n, remainder)
Cross Section

58-Ce-140
0.163 To 0.308 %



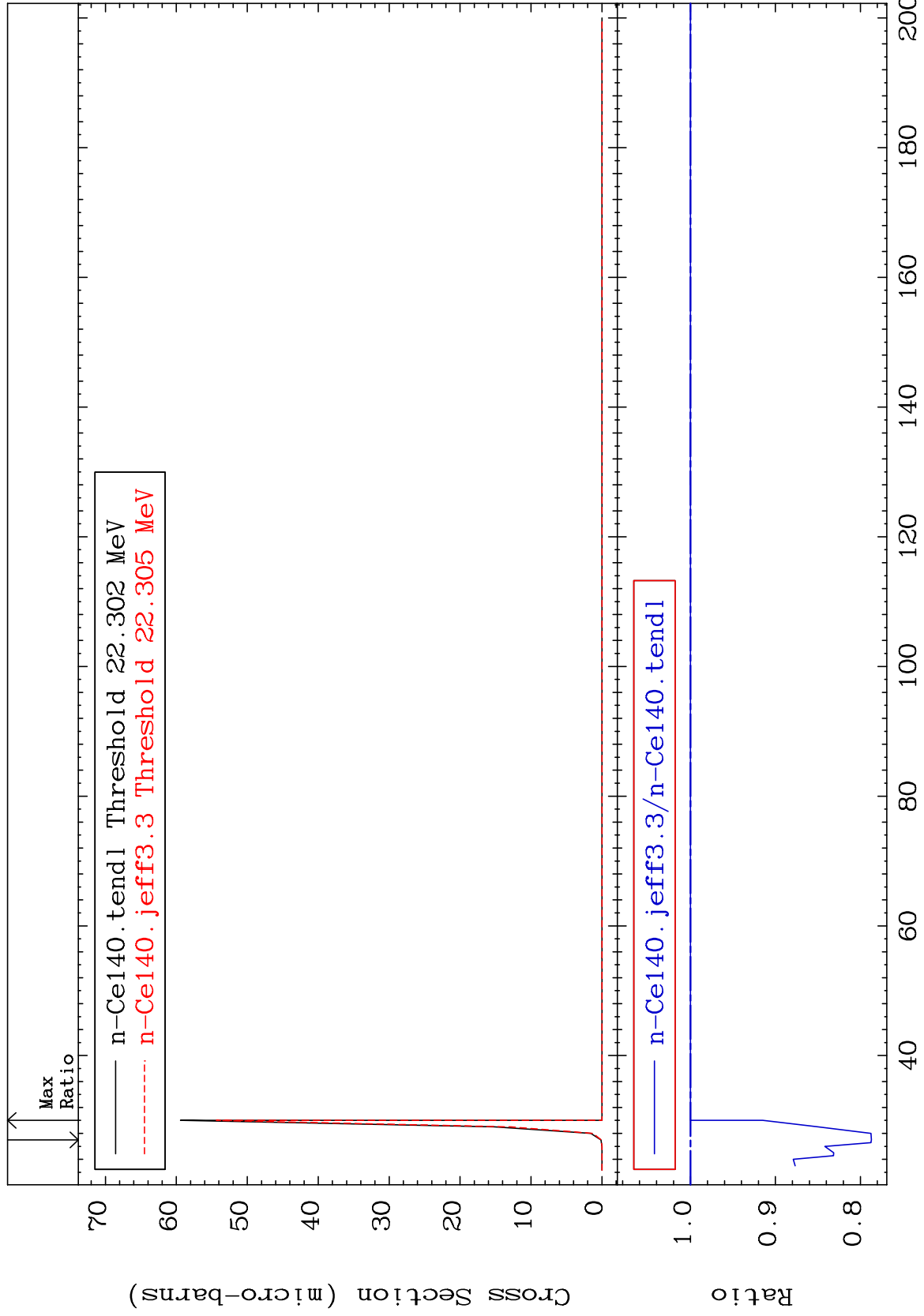
MAT 5837

(n,2n) d

58-Ce-140

Cross Section

-21.30 To 0.000 %



Incident Energy (MeV)

58-Ce-140

5

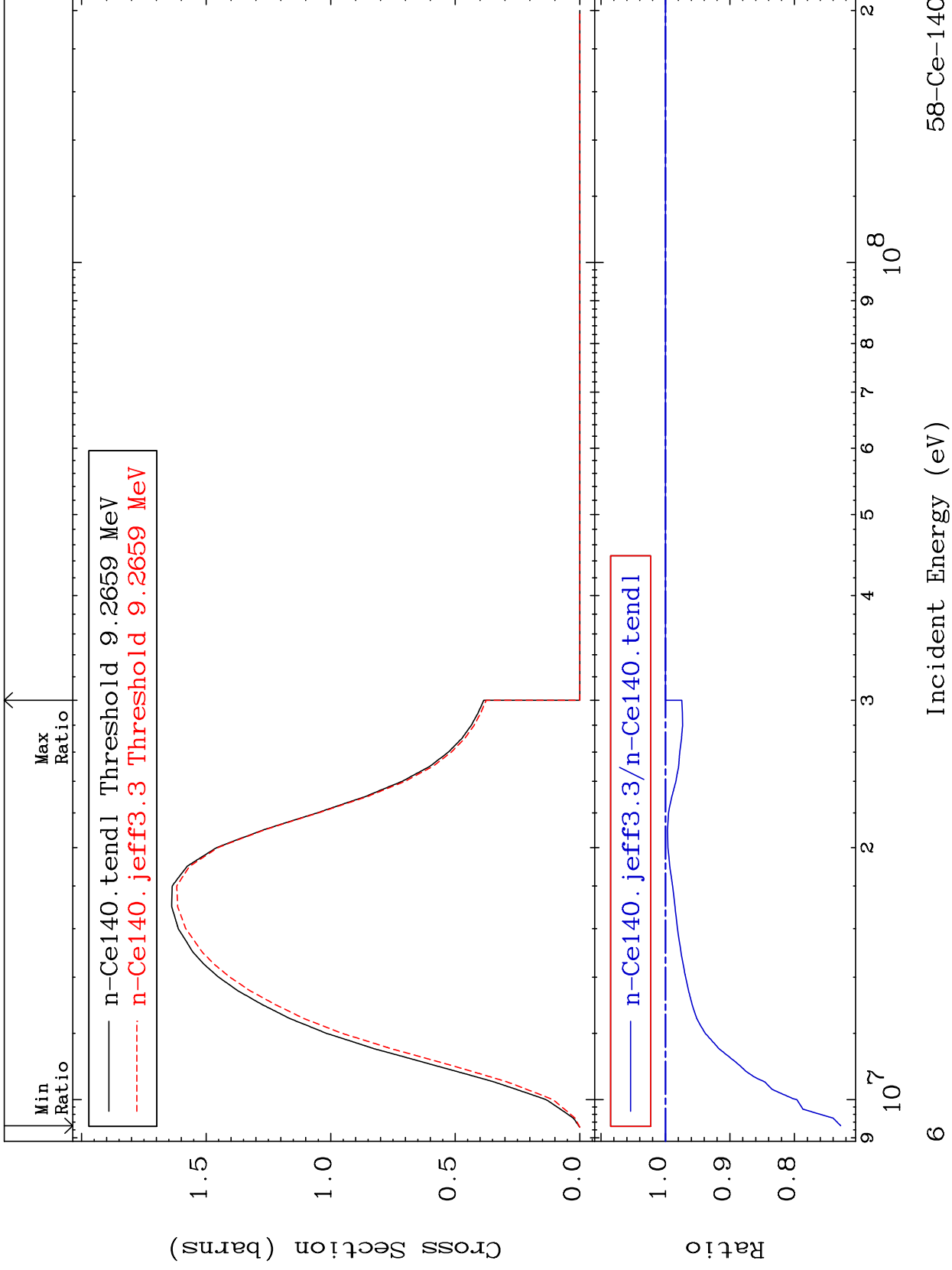
MAT 5837

(n,2n)

58-Ce-140

Cross Section

-27.17 To 0.000 %



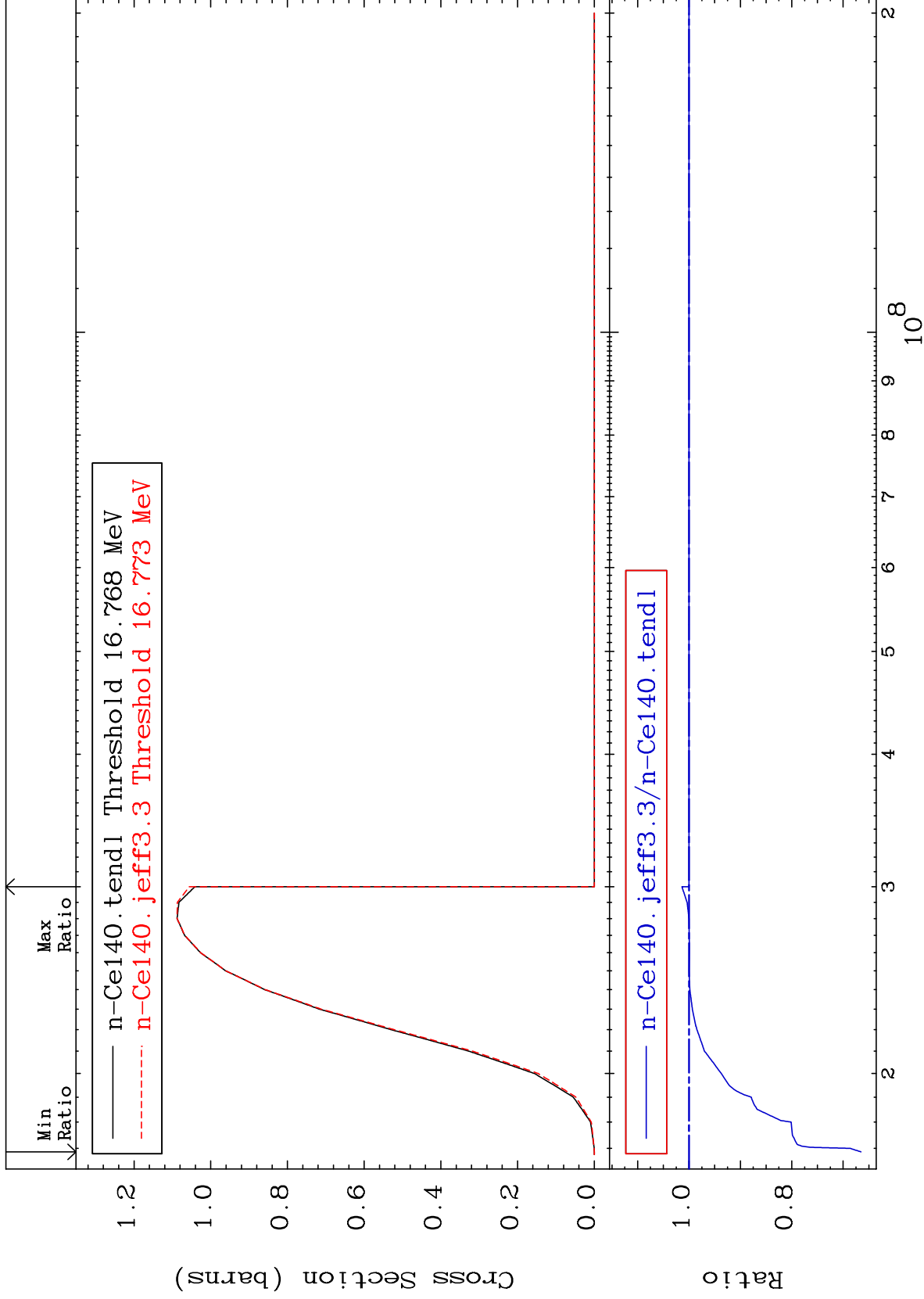
MAT 5837

(n,3n)

58-Ce-140

Cross Section

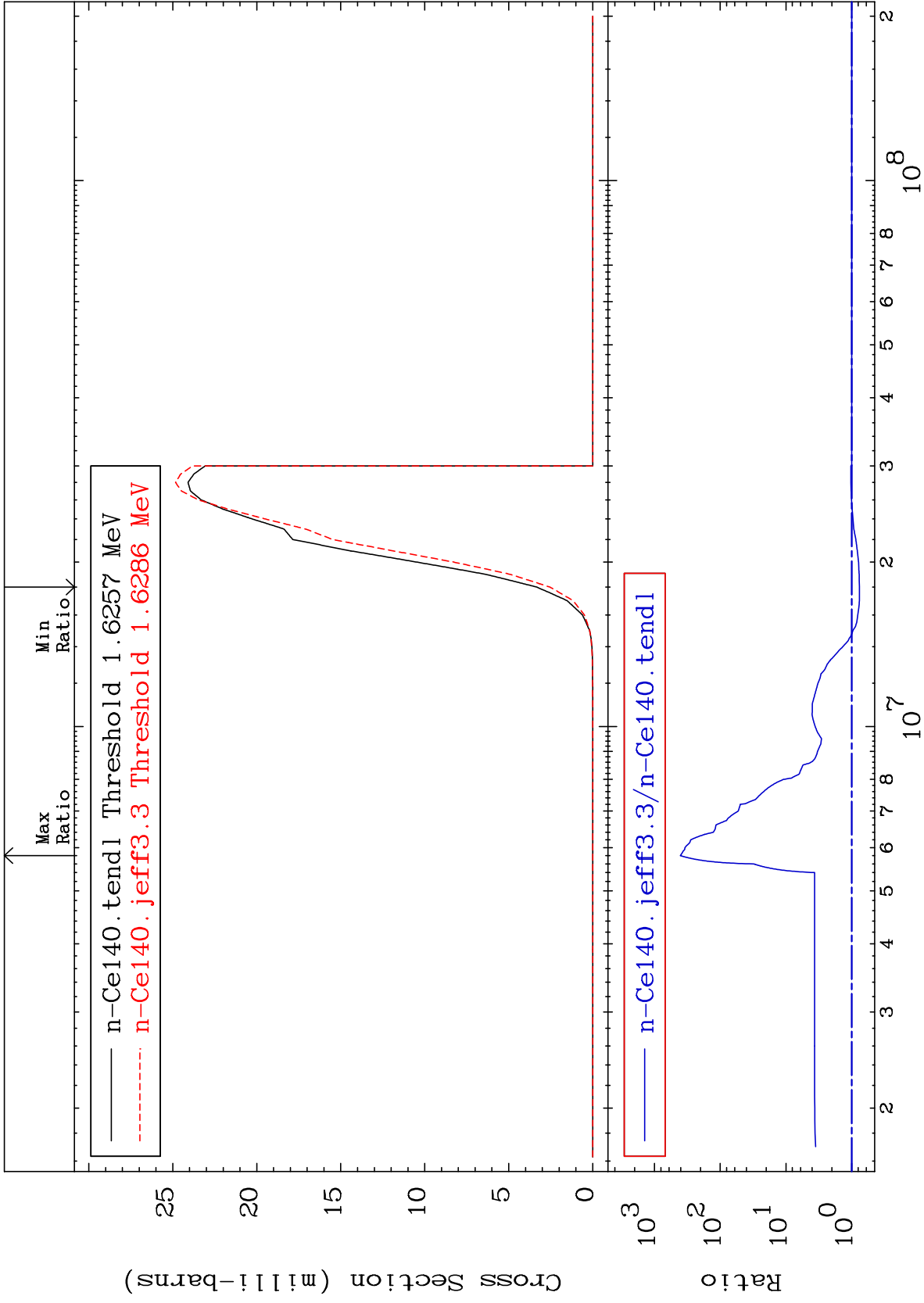
-33.47 To 1.382 %

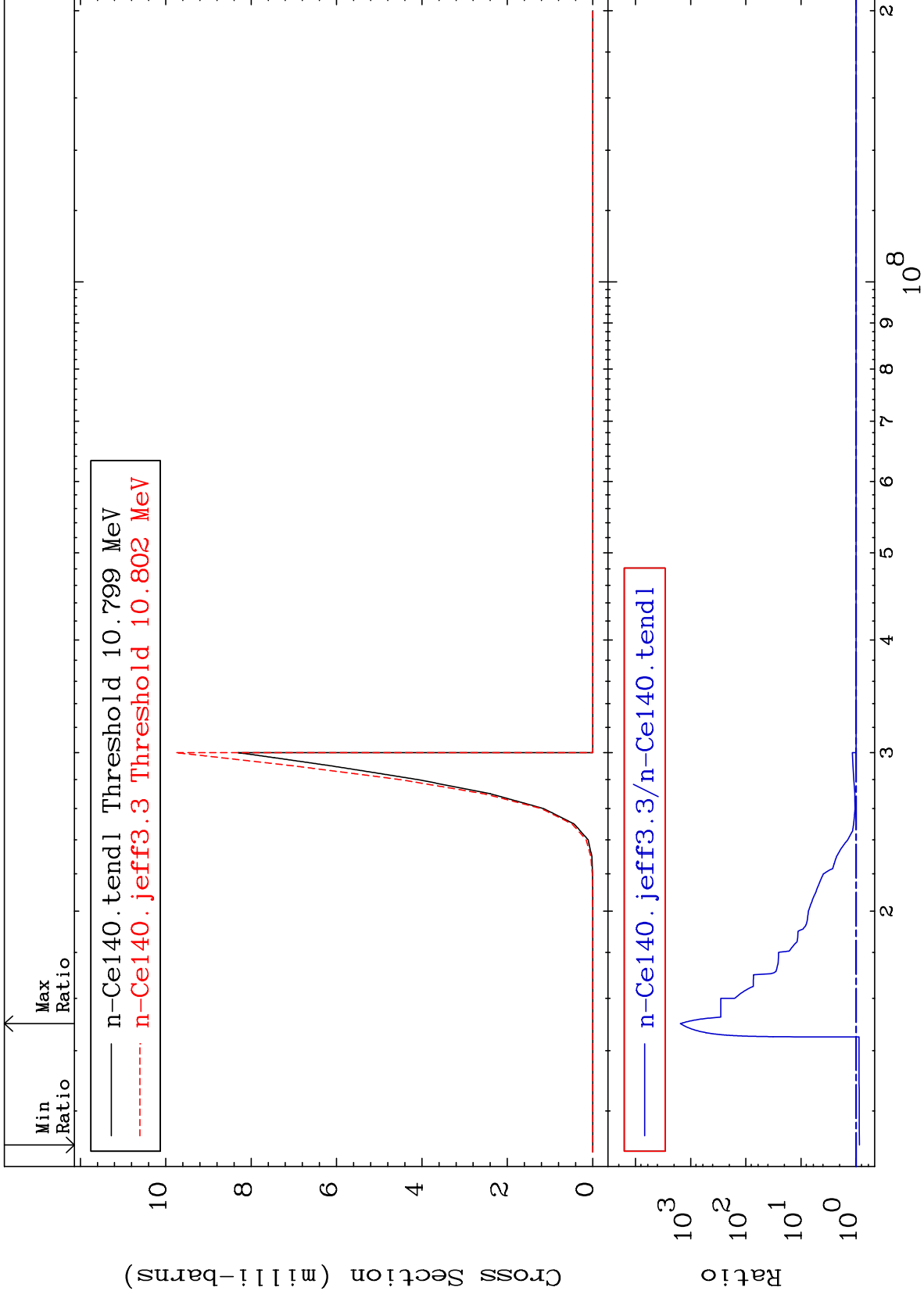


MAT 5837

58-Ce-140
-23.51 To 9999. %

(n,n') α
Cross Section





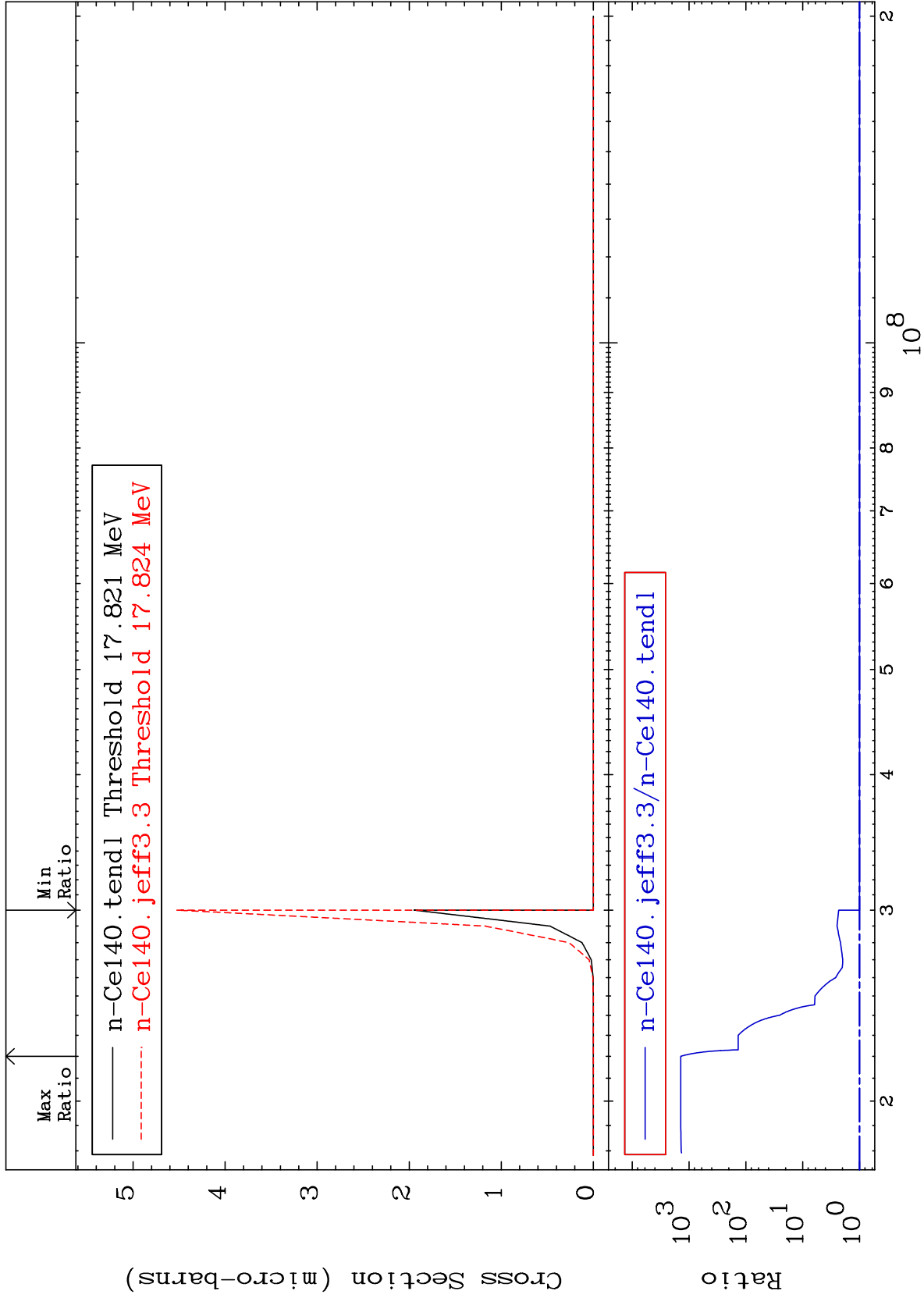
MAT 5837

(n,3n) α

58-Ce-140

Cross Section

0.000 To 9999. %



10

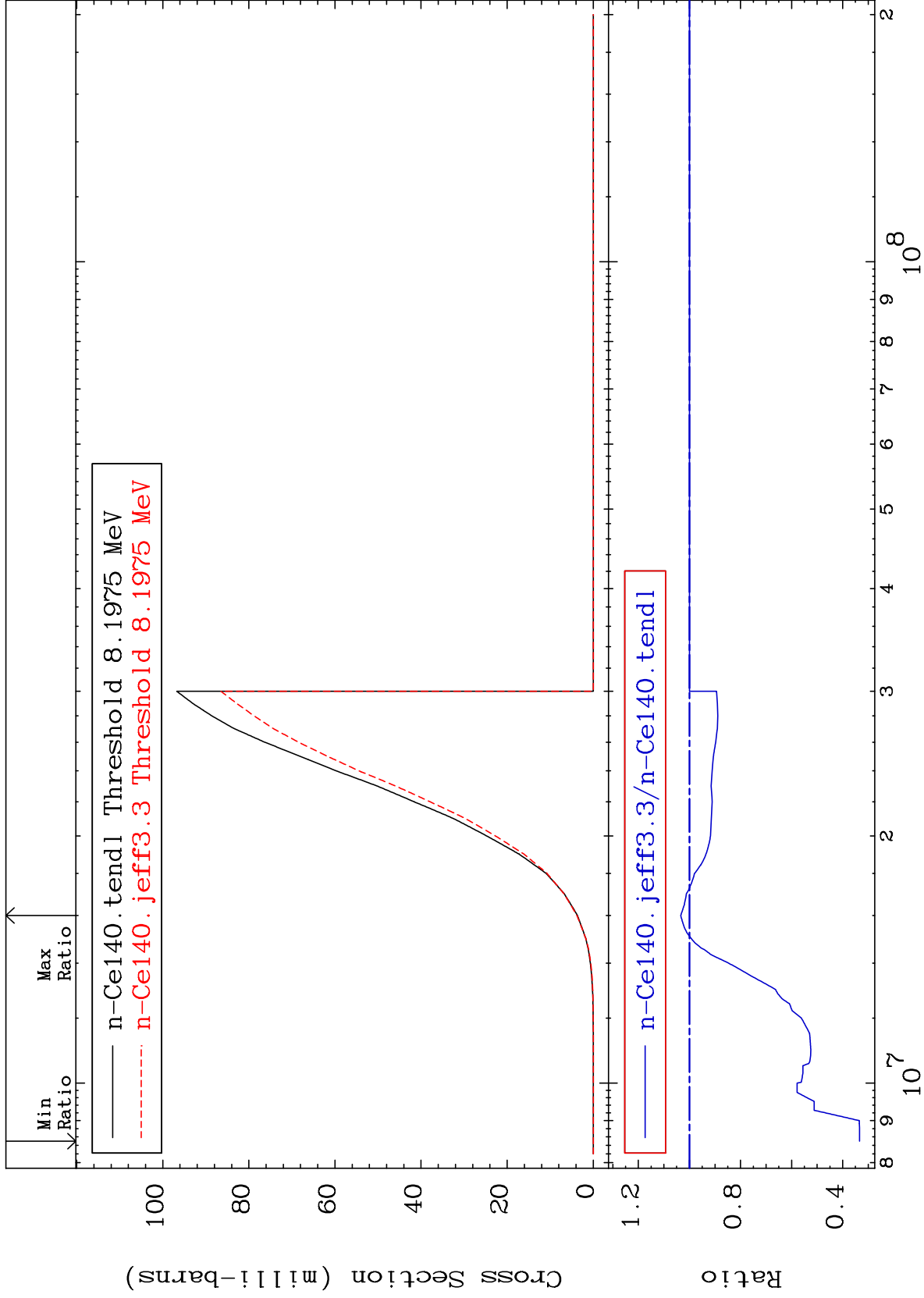
Incident Energy (eV)

58-Ce-140

MAT 5837

(n,n') p
Cross Section

58-Ce-140
-66.60 To 3.389 %



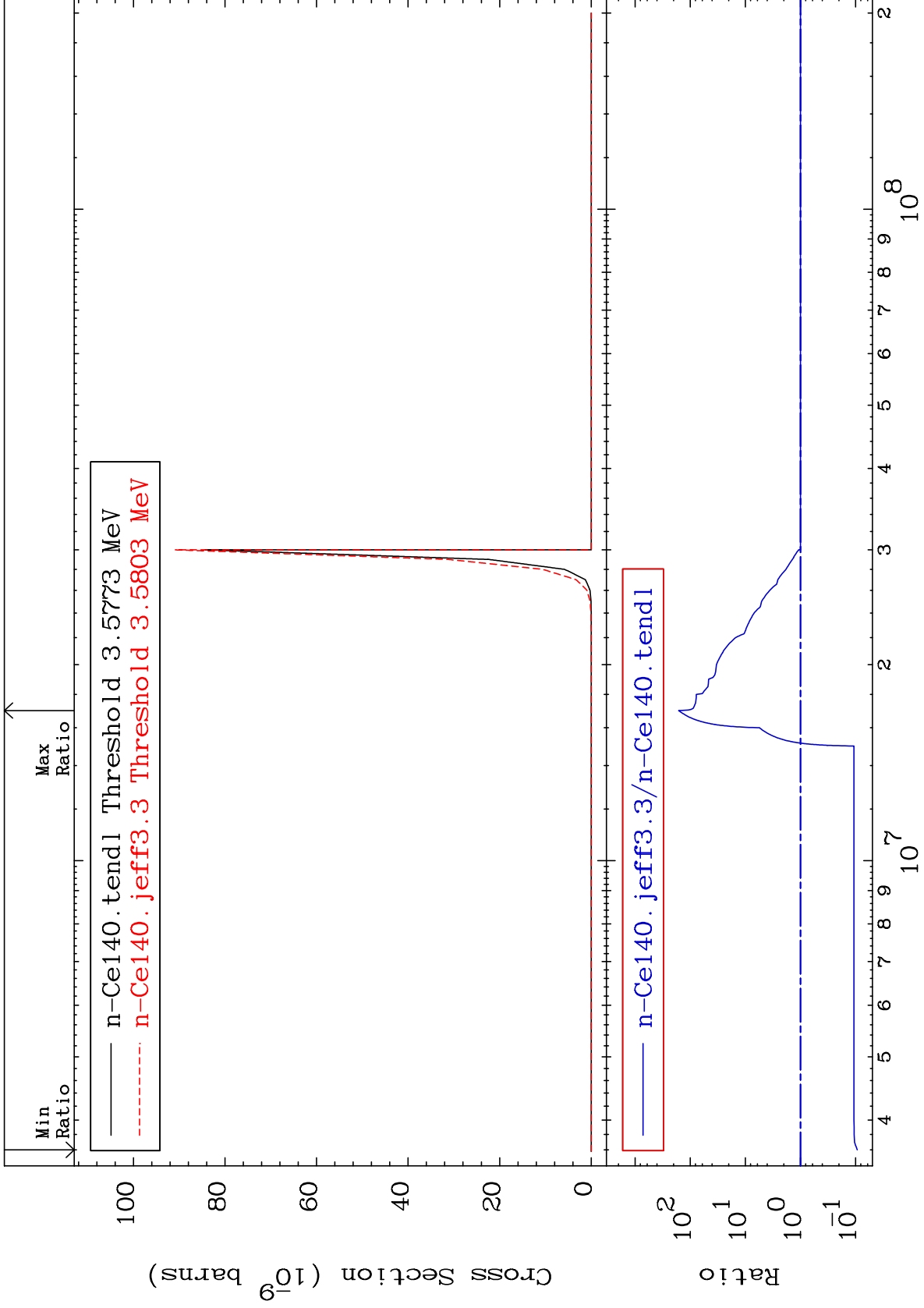
11

58-Ce-140

MAT 5837

(n, n') 2α
Cross Section

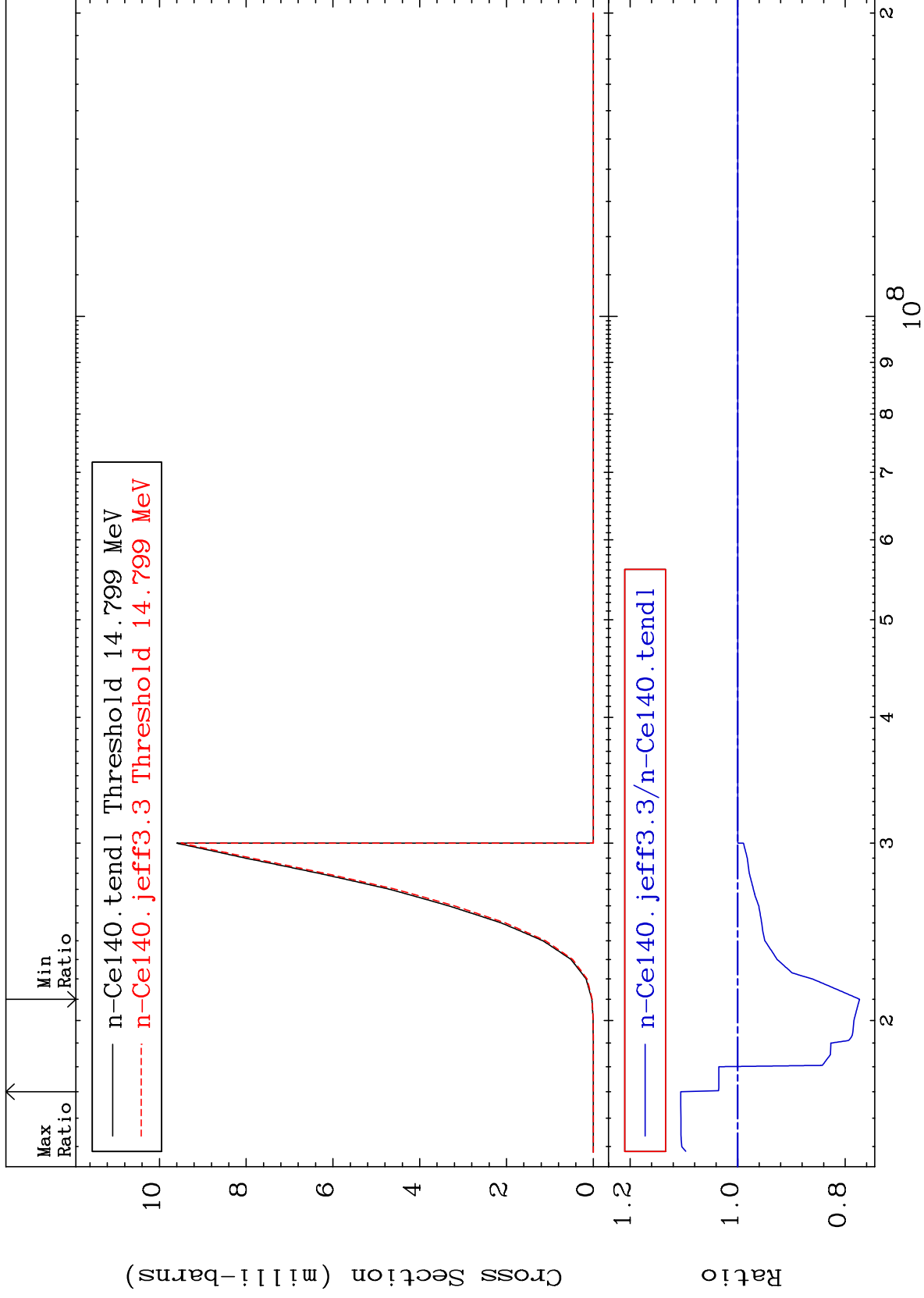
58-Ce-140
-90.70 To 9999. %



MAT 5837

(n,n') d
Cross Section

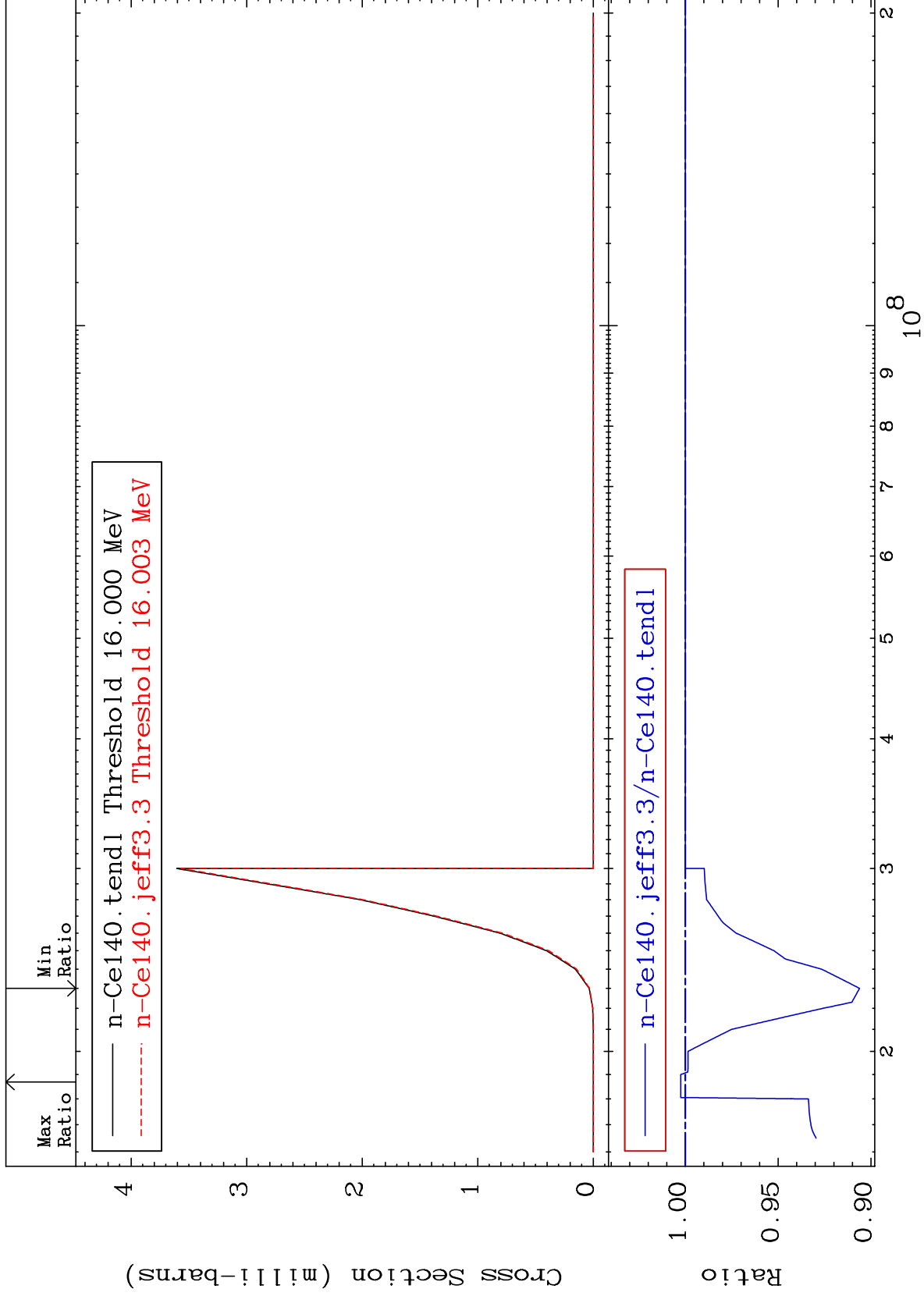
58-Ce-140
-22.67 To 10.59 %



MAT 5837

(n,n') t
Cross Section

58-Ce-140
-9.384 To 0.247 %



14

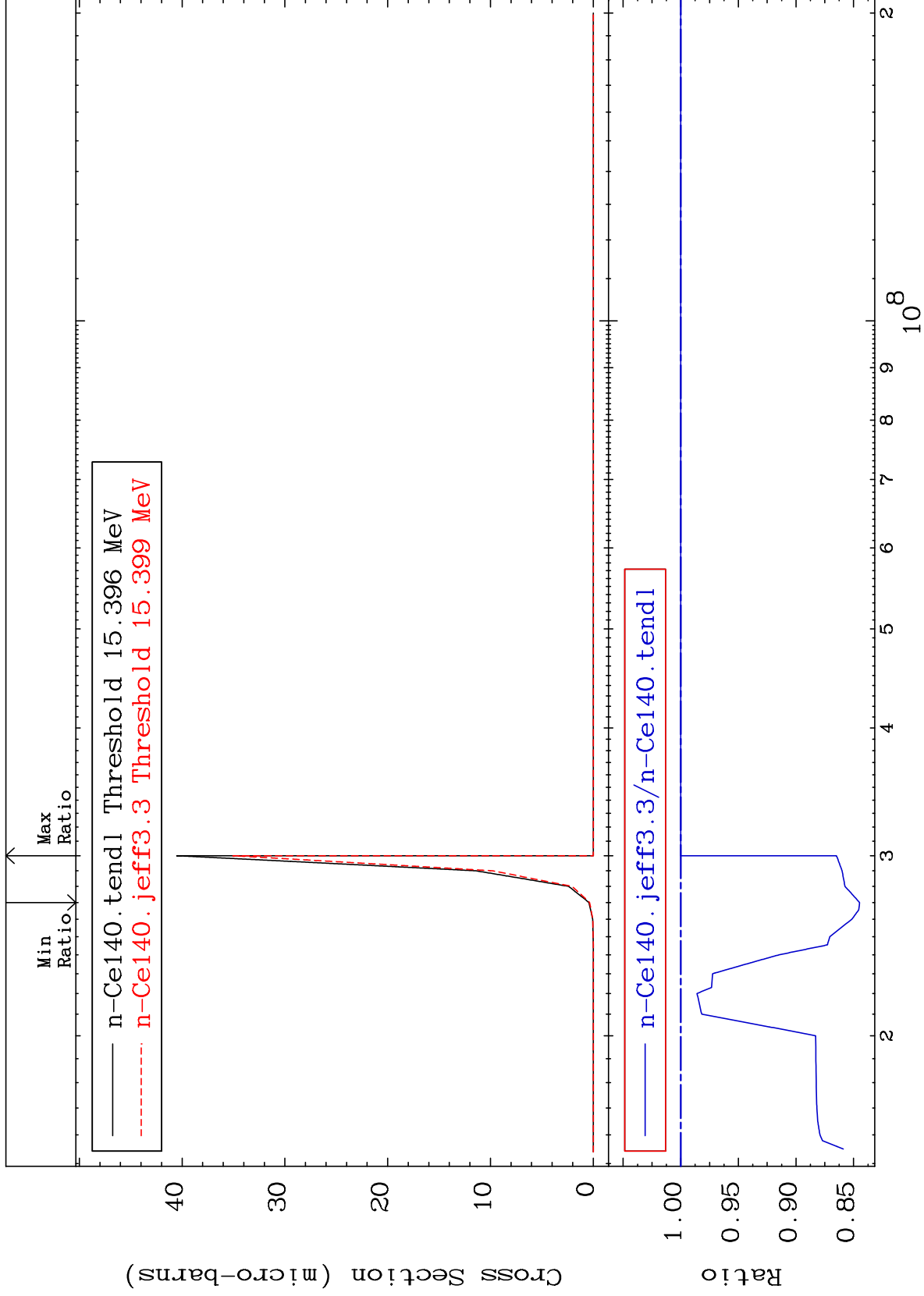
58-Ce-140

58-Ce-140

MAT 5837

(n, n') He-3
Cross Section

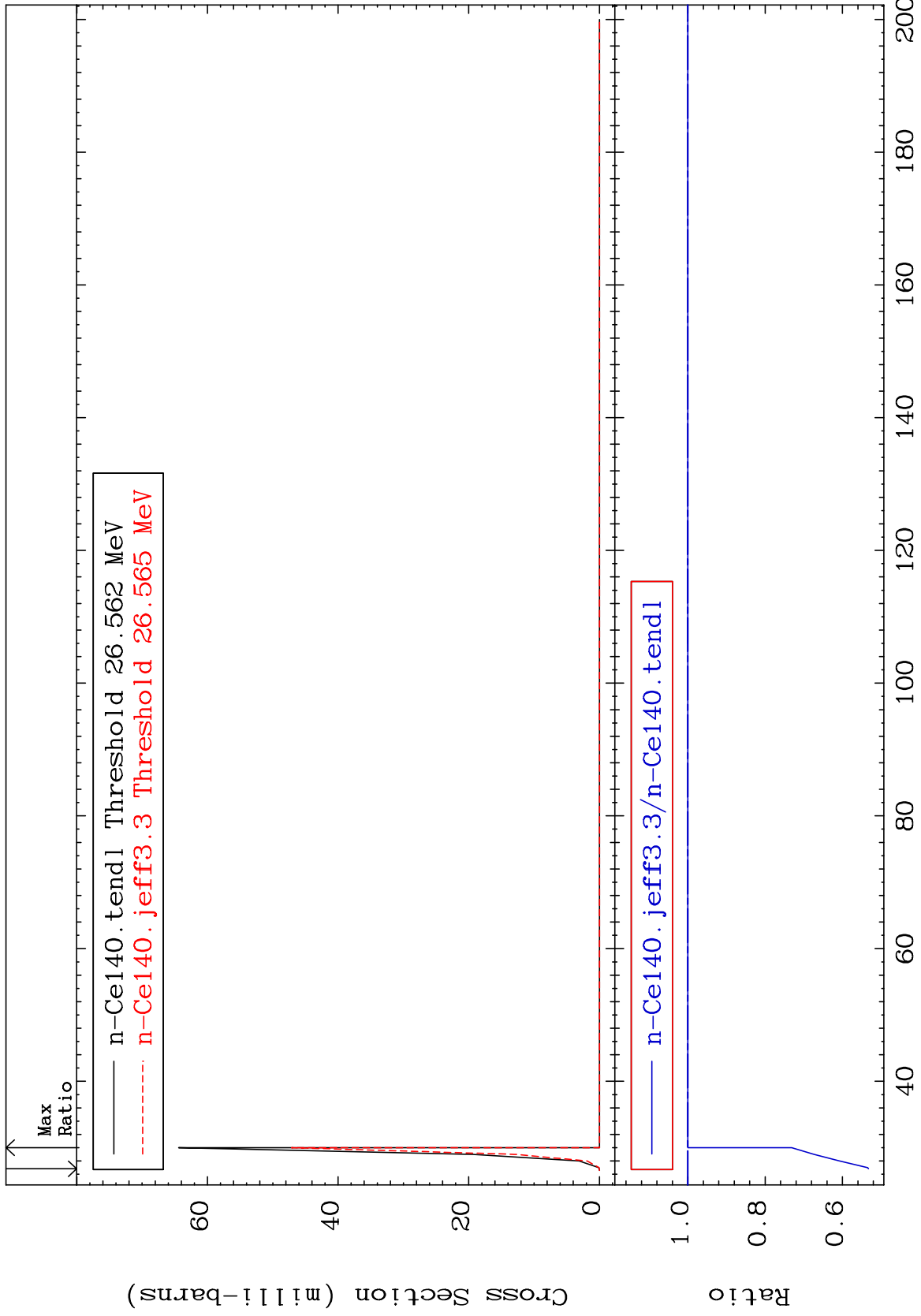
58-Ce-140
-15.52 To 0.000 %



MAT 5837

(n,4n)
Cross Section

58-Ce-140
-46.73 To 0.000 %



16

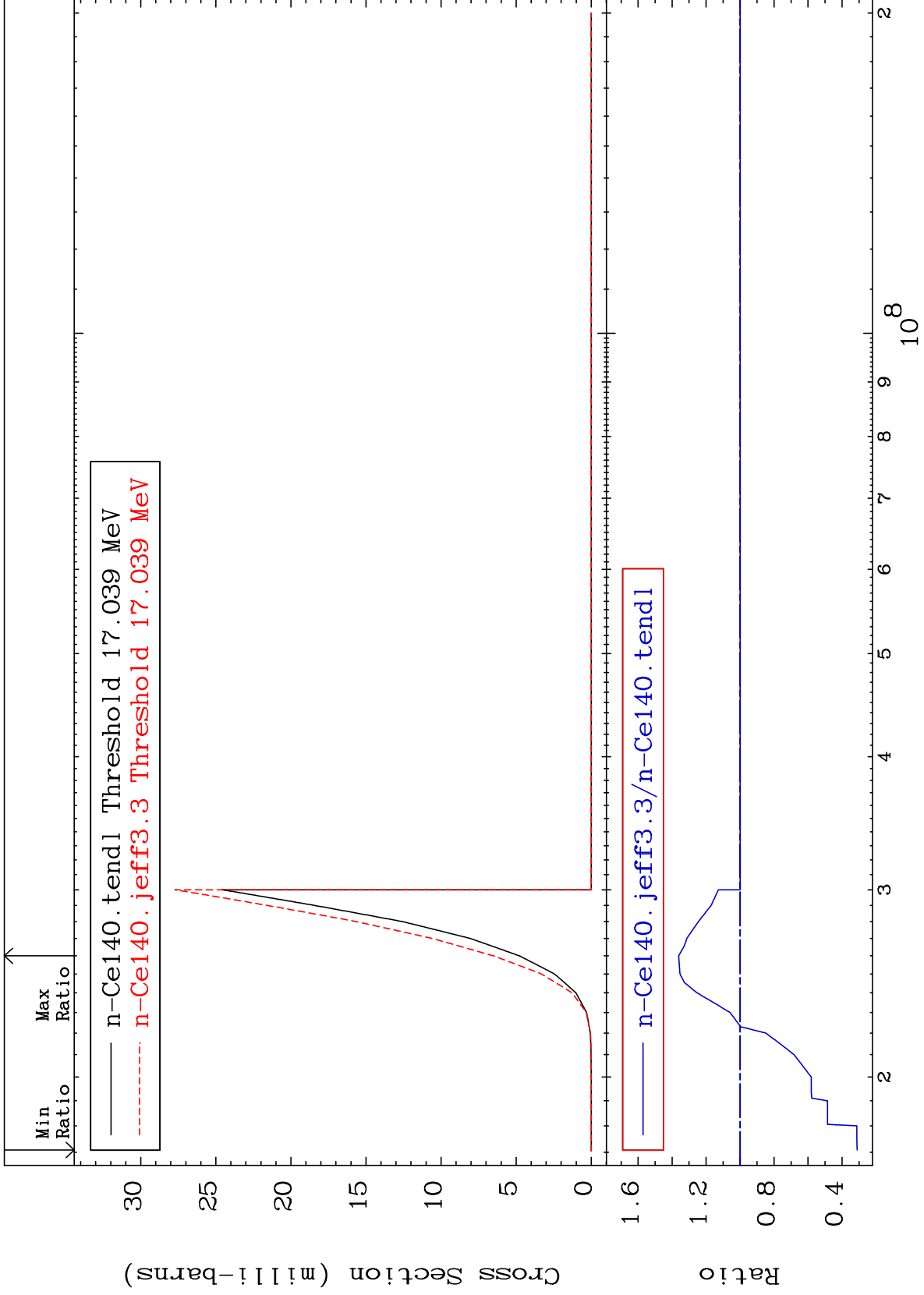
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,2n) p
Cross Section

58-Ce-140
-68.96 To 36.15 %



17

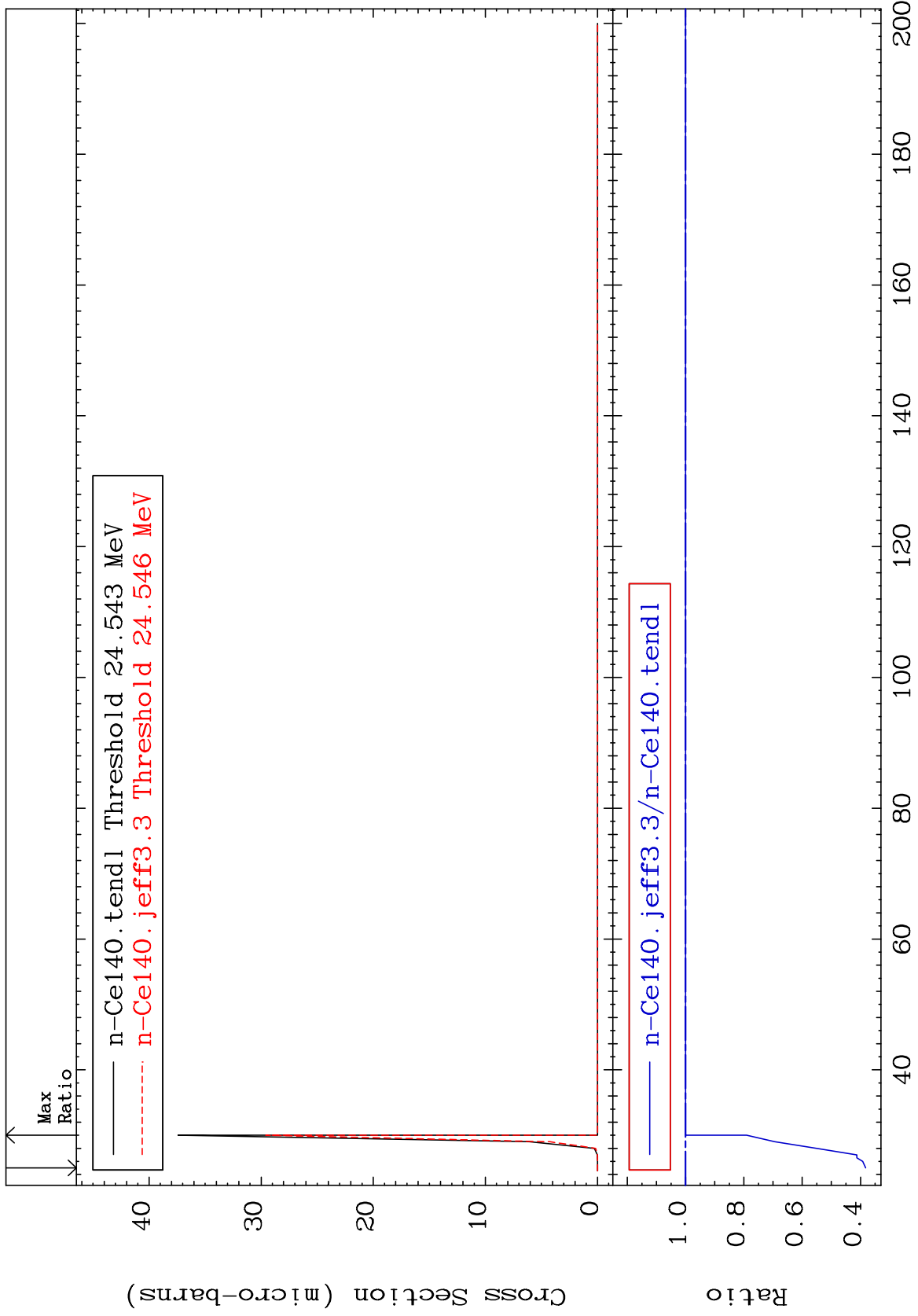
Incident Energy (eV)

58-Ce-140

MAT 5837

(n,3n) p
Cross Section

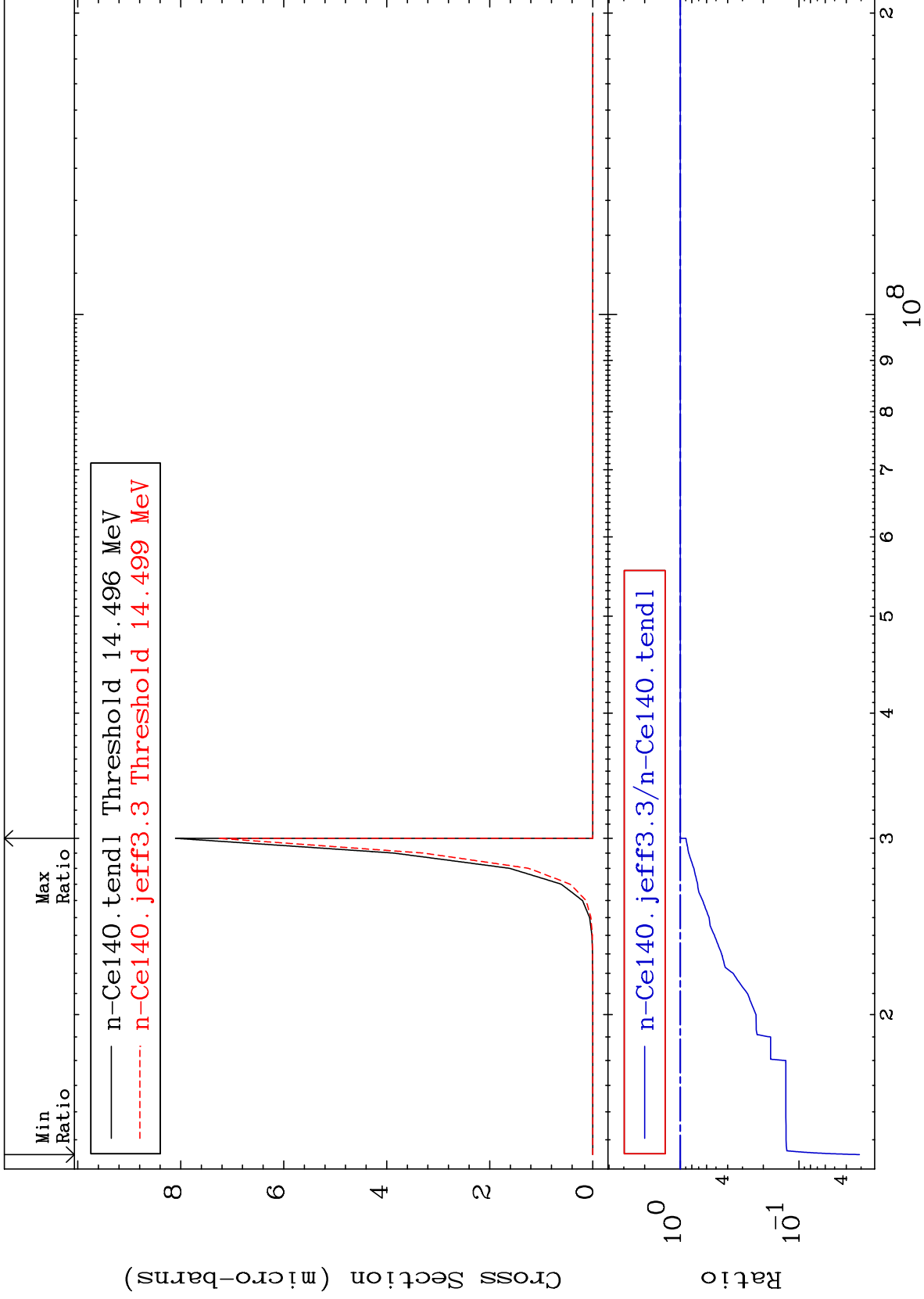
58-Ce-140
-61.76 To 0.000 %



MAT 5837

(n,2n) p
Cross Section

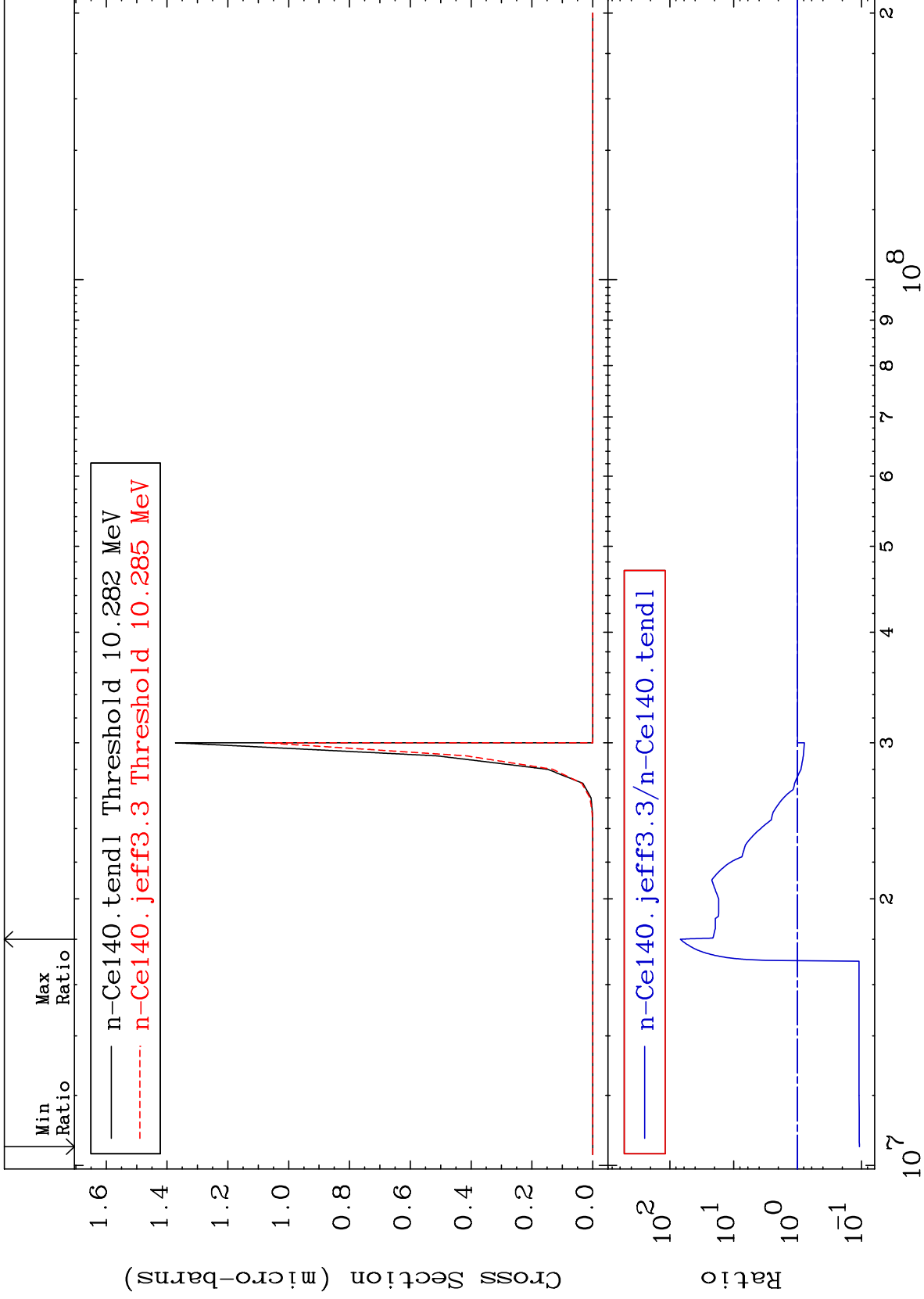
58-Ce-140
-96.91 To 0.000 %



MAT 5837

(n,n') p α
Cross Section

58-Ce-140
-89.24 To 6734. %



20

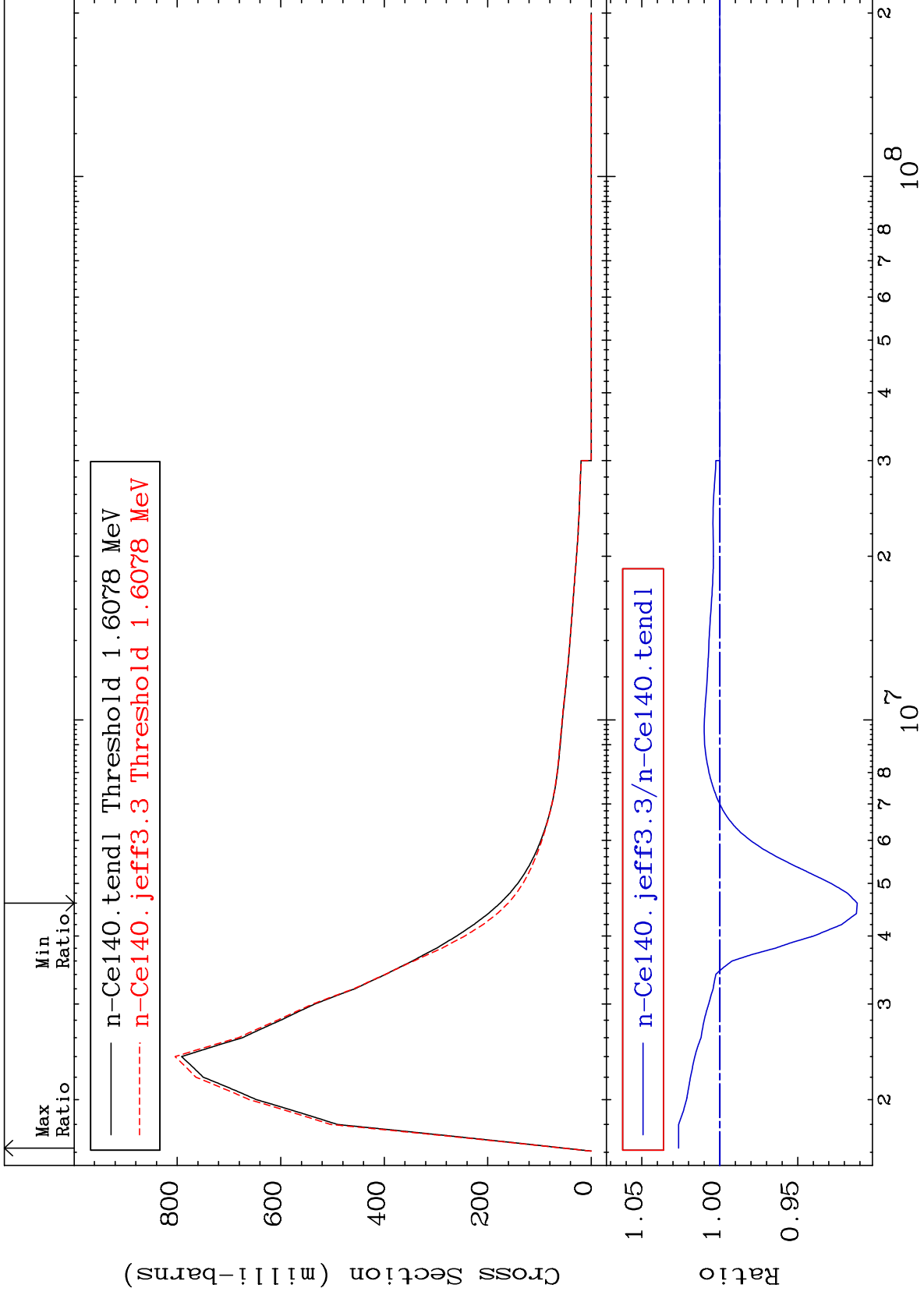
Incident Energy (eV)

58-Ce-140

MAT 5837

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

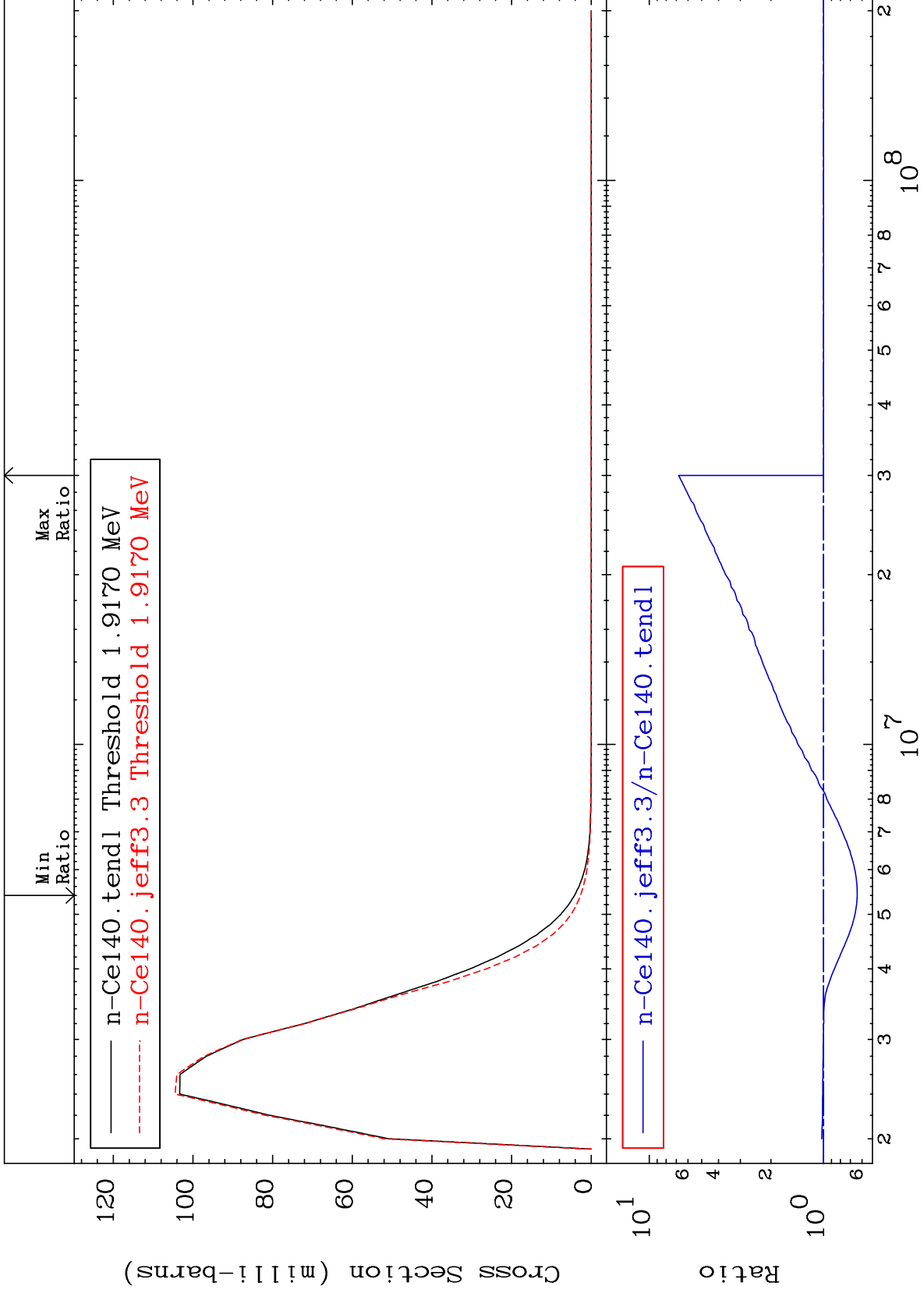
58-Ce-140
-8.822 To 2.636 %



MAT 5837

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

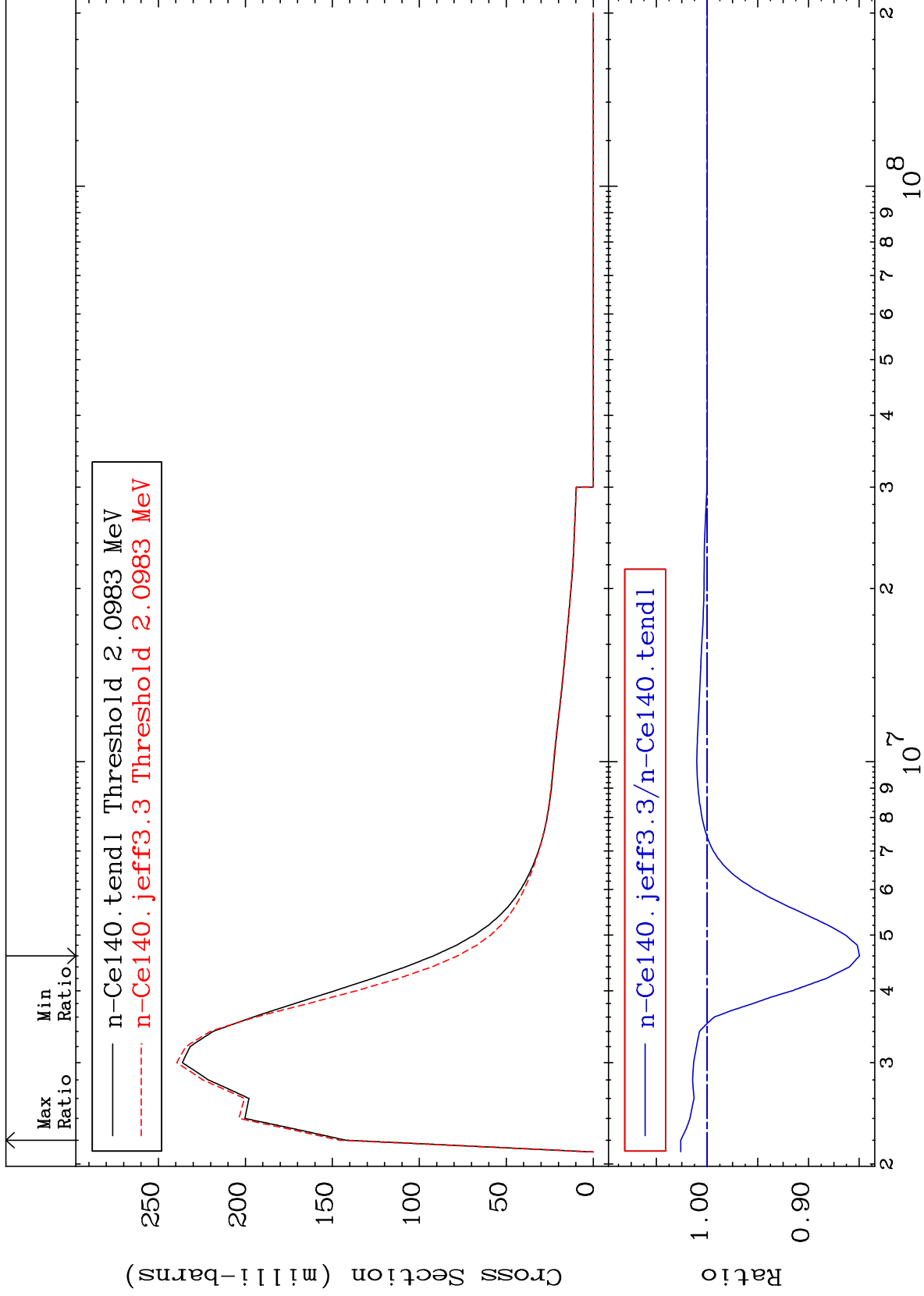
58-Ce-140
-36.01 To 577.9 %



MAT 5837

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

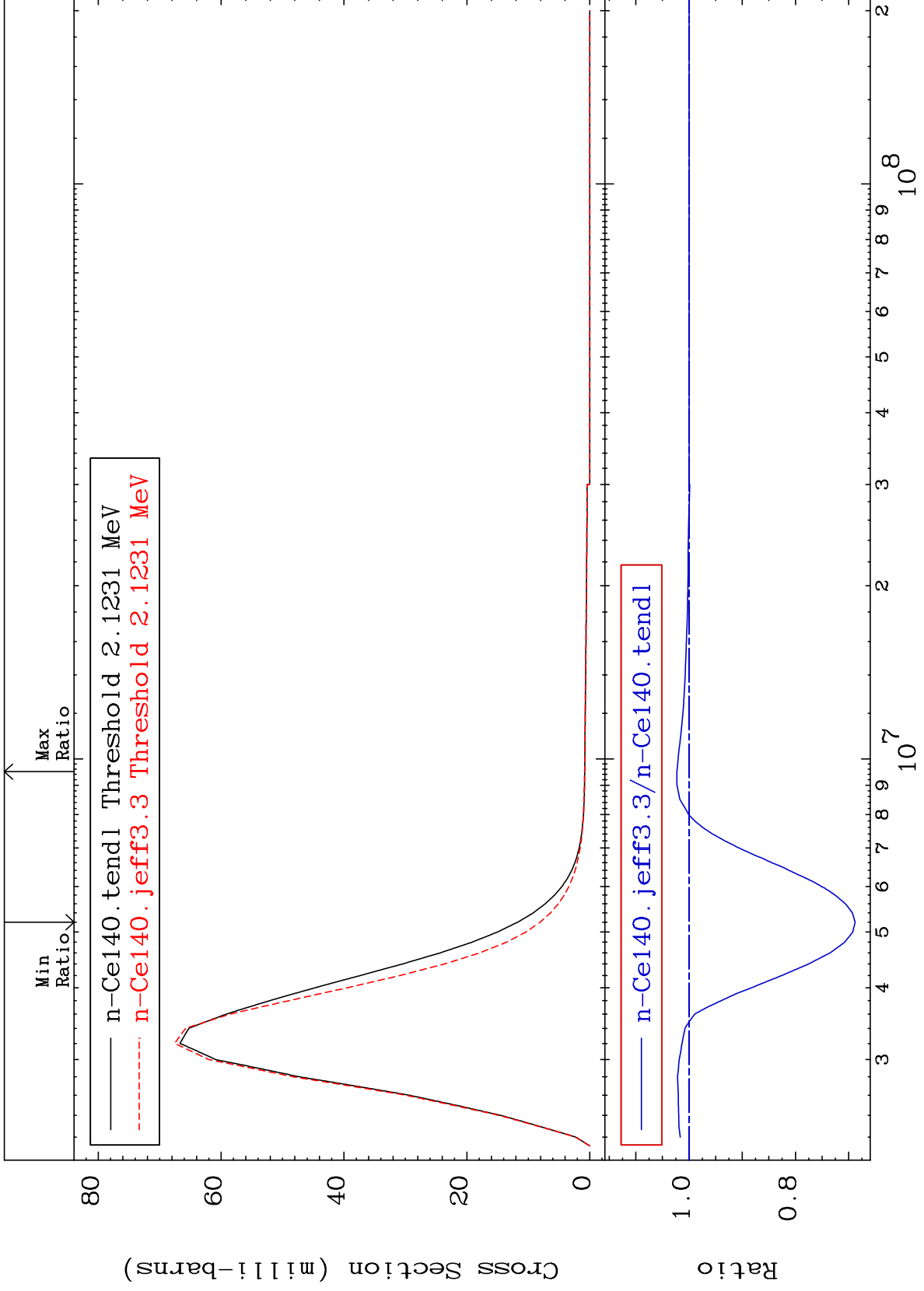
58-Ce-140
-15.03 To 2.602 %



MAT 5837

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

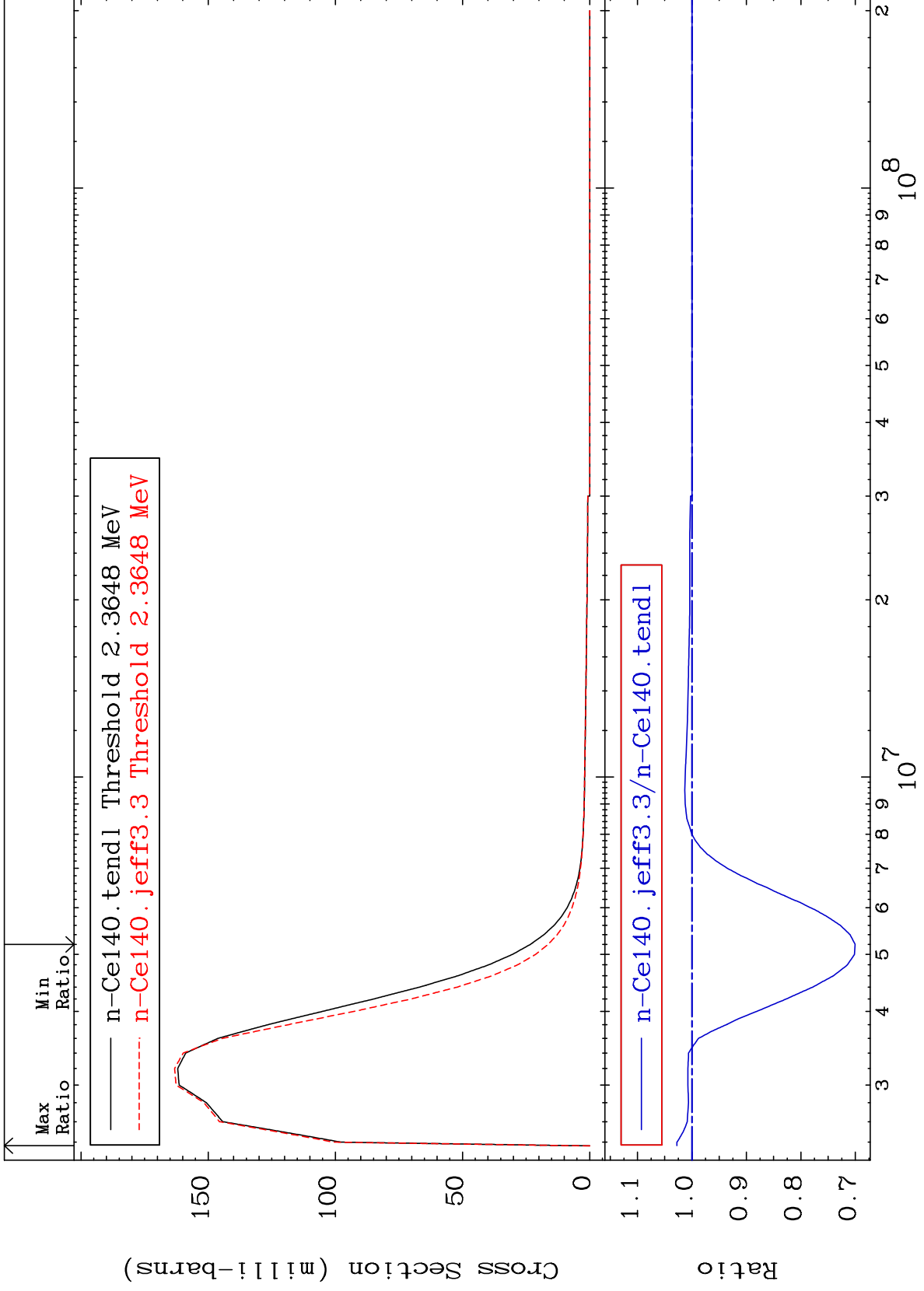
58-Ce-140
-31.21 To 2.278 %



MAT 5837

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

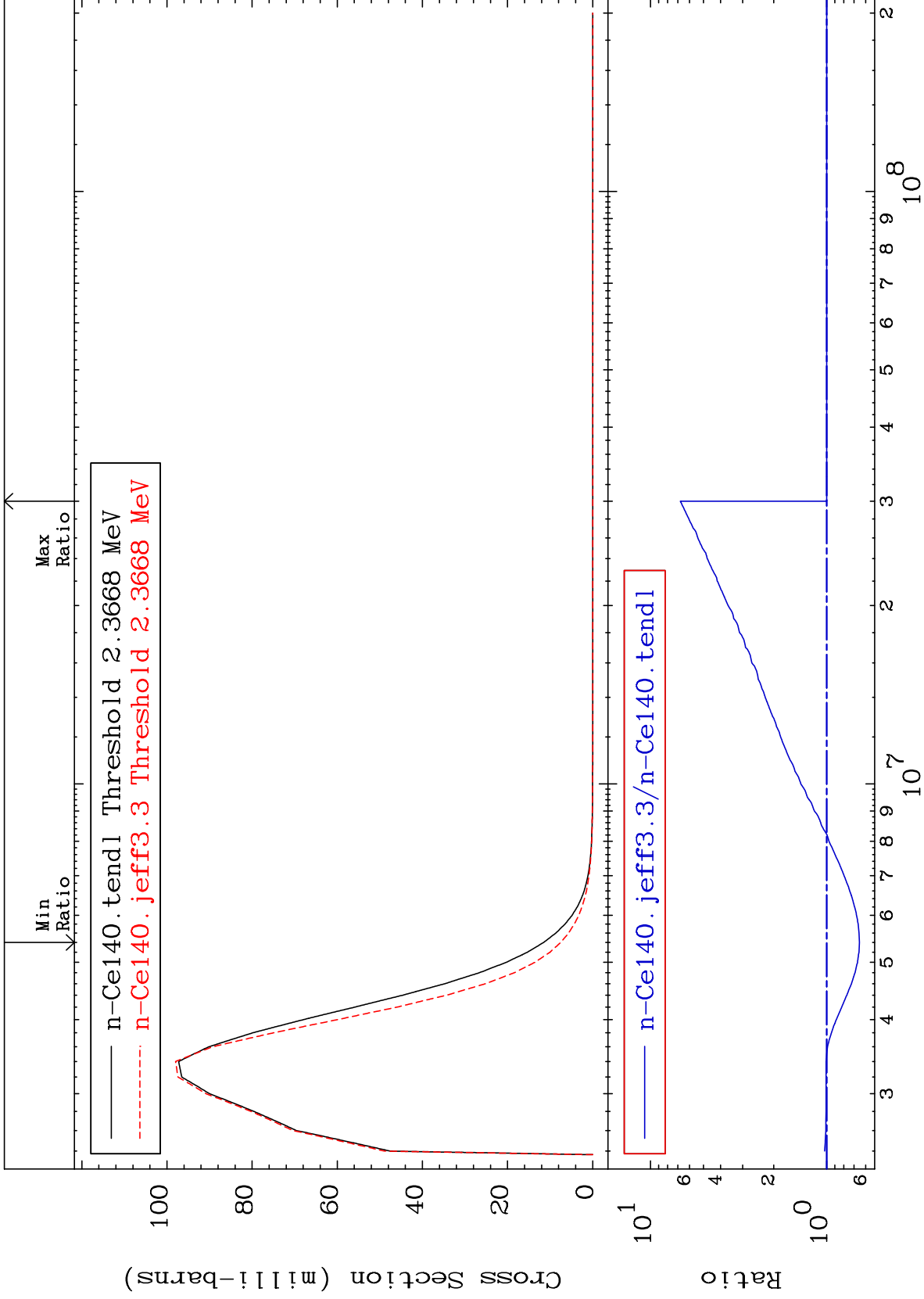
58-Ce-140
-29.96 To 2.762 %



MAT 5837

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

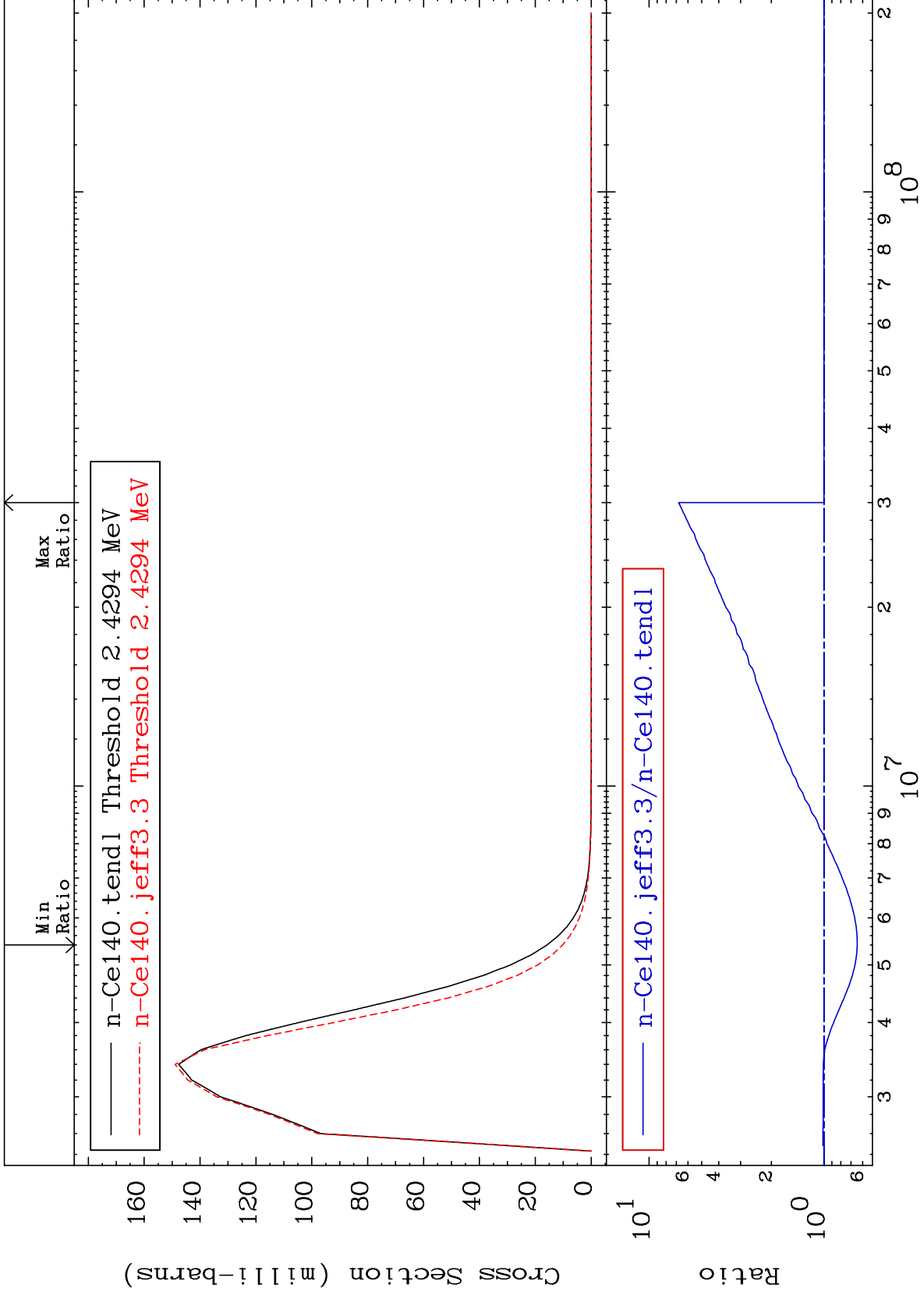
58-Ce-140
-34.81 To 576.8 %



MAT 5837

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

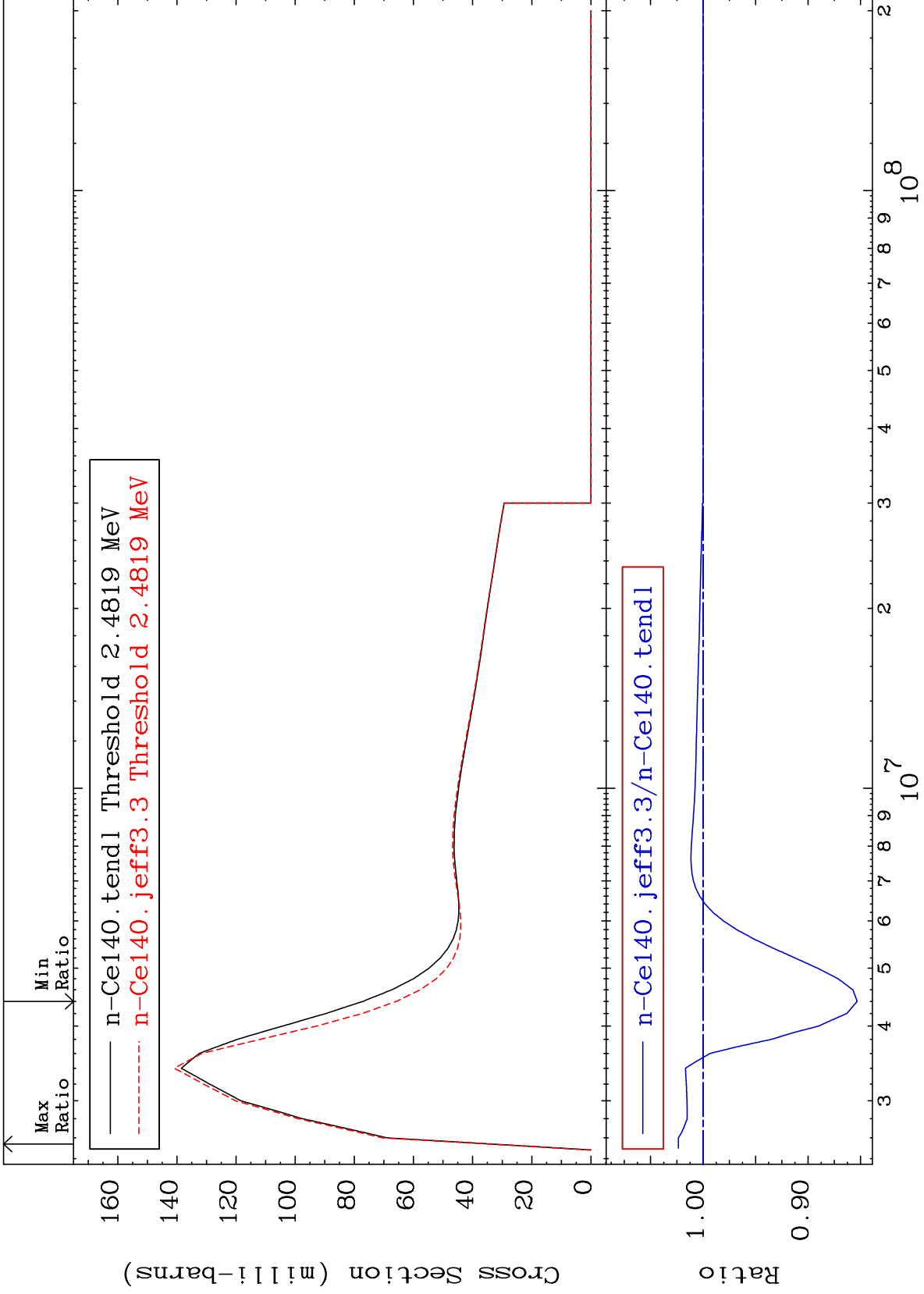
58-Ce-140
-35.52 To 577.9 %



MAT 5837

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

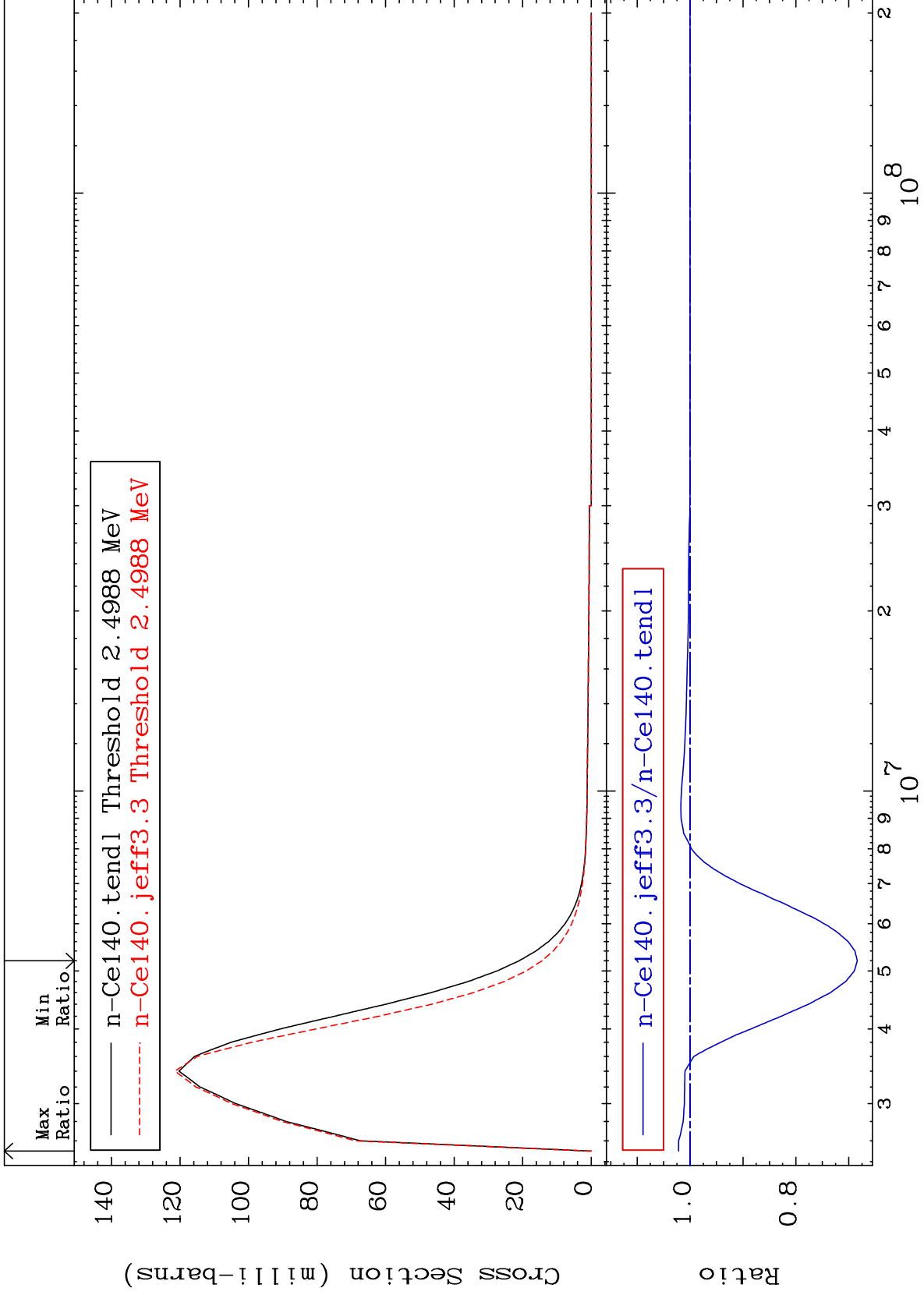
58-Ce-140
-14.68 To 2.348 %



MAT 5837

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

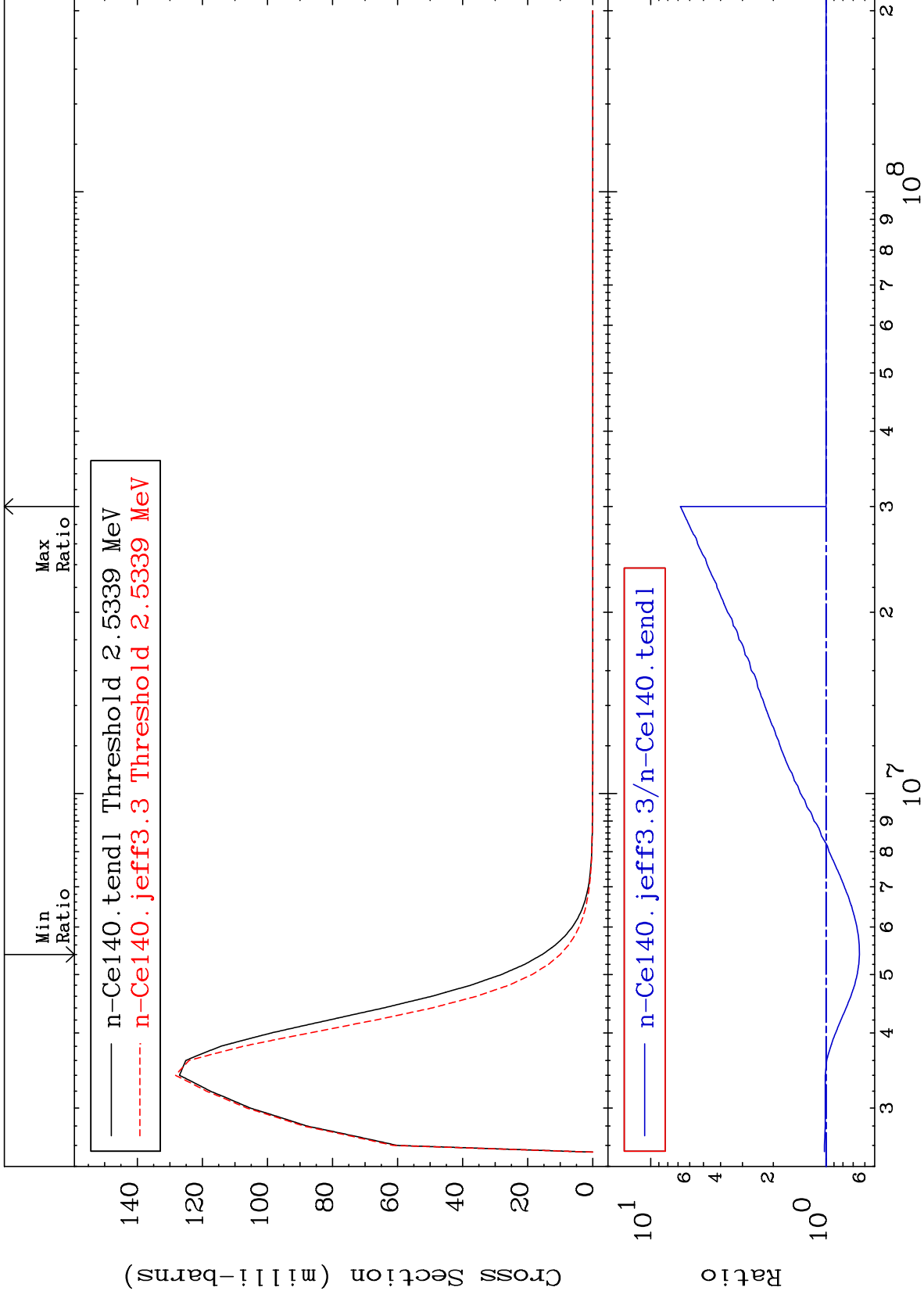
58-Ce-140
-31.60 To 2.160 %



MAT 5837

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

58-Ce-140
-35.51 To 577.9 %



30

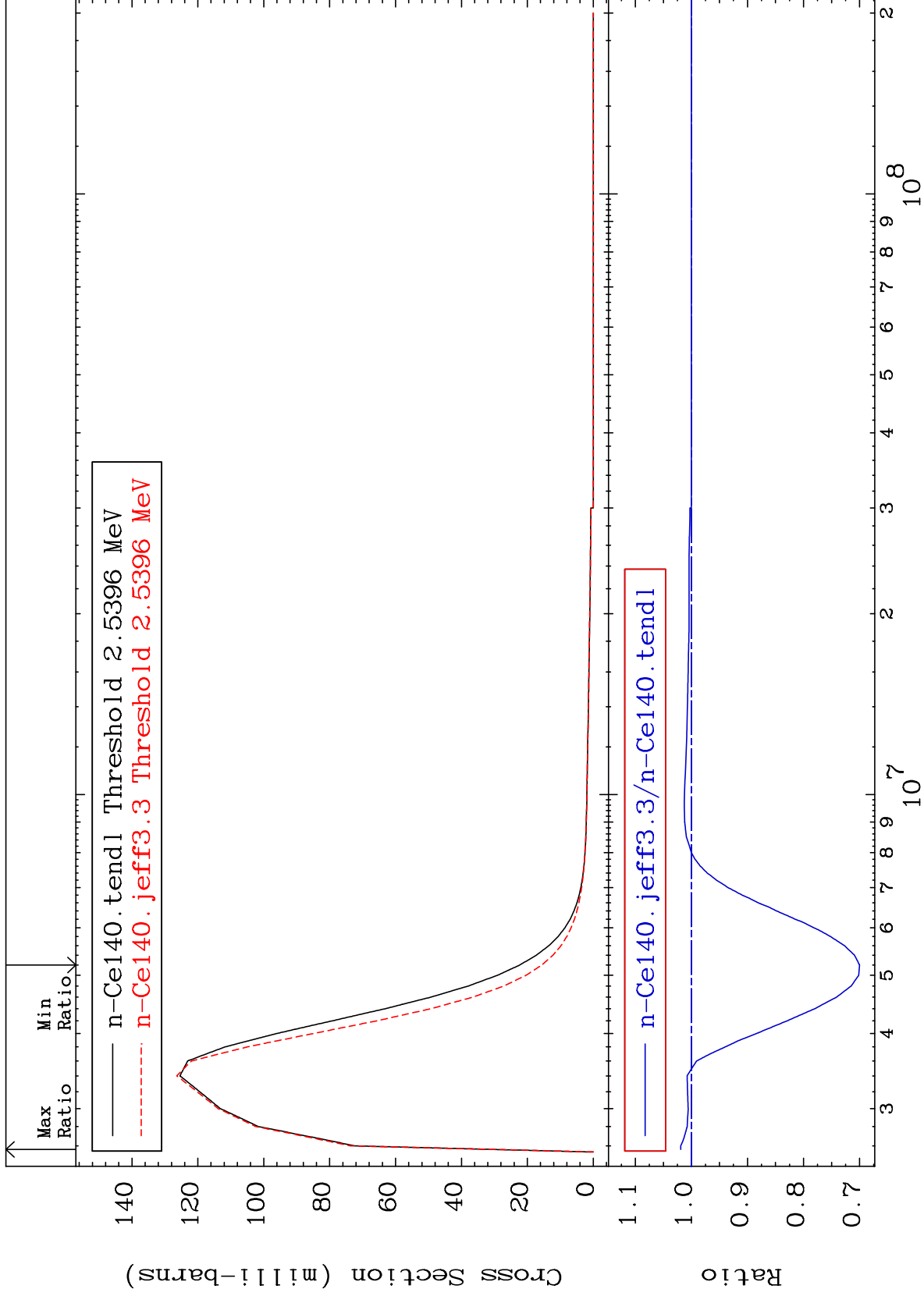
Incident Energy (eV)

58-Ce-140

MAT 5837

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

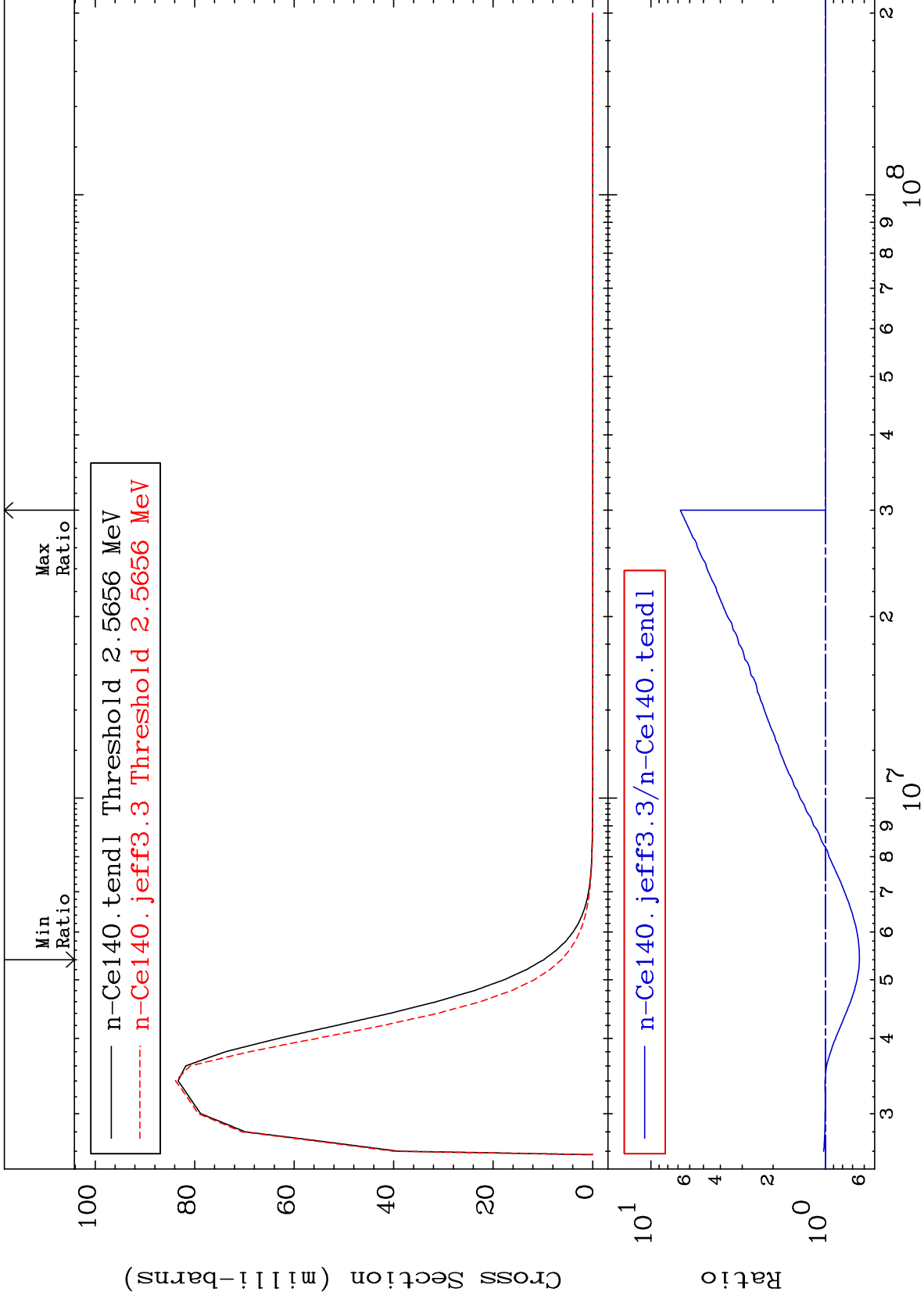
58-Ce-140
-29.99 To 1.894 %



MAT 5837

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

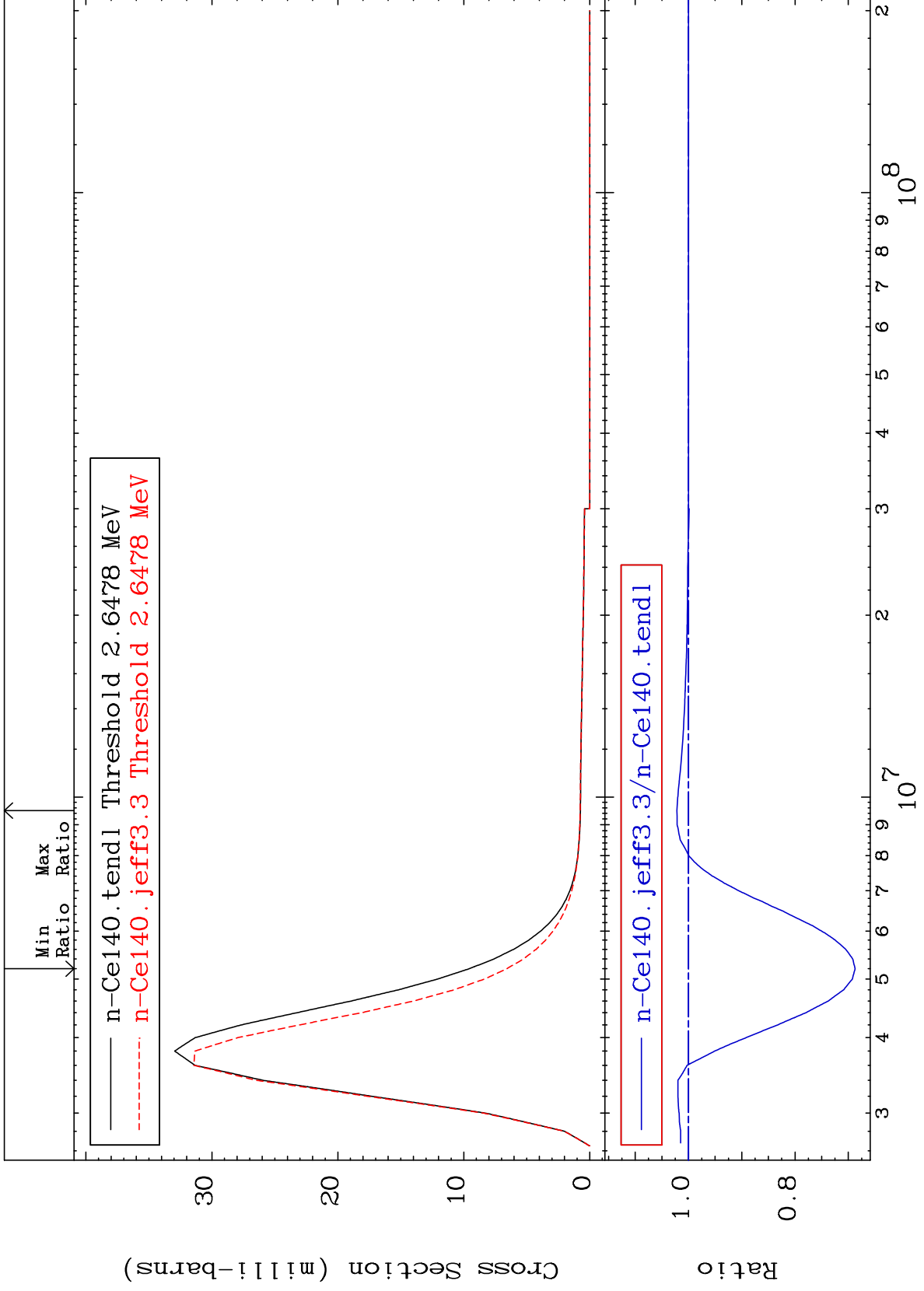
58-Ce-140
-36.02 To 578.7 %



MAT 5837

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

58-Ce-140
-31.27 To 2.173 %



33

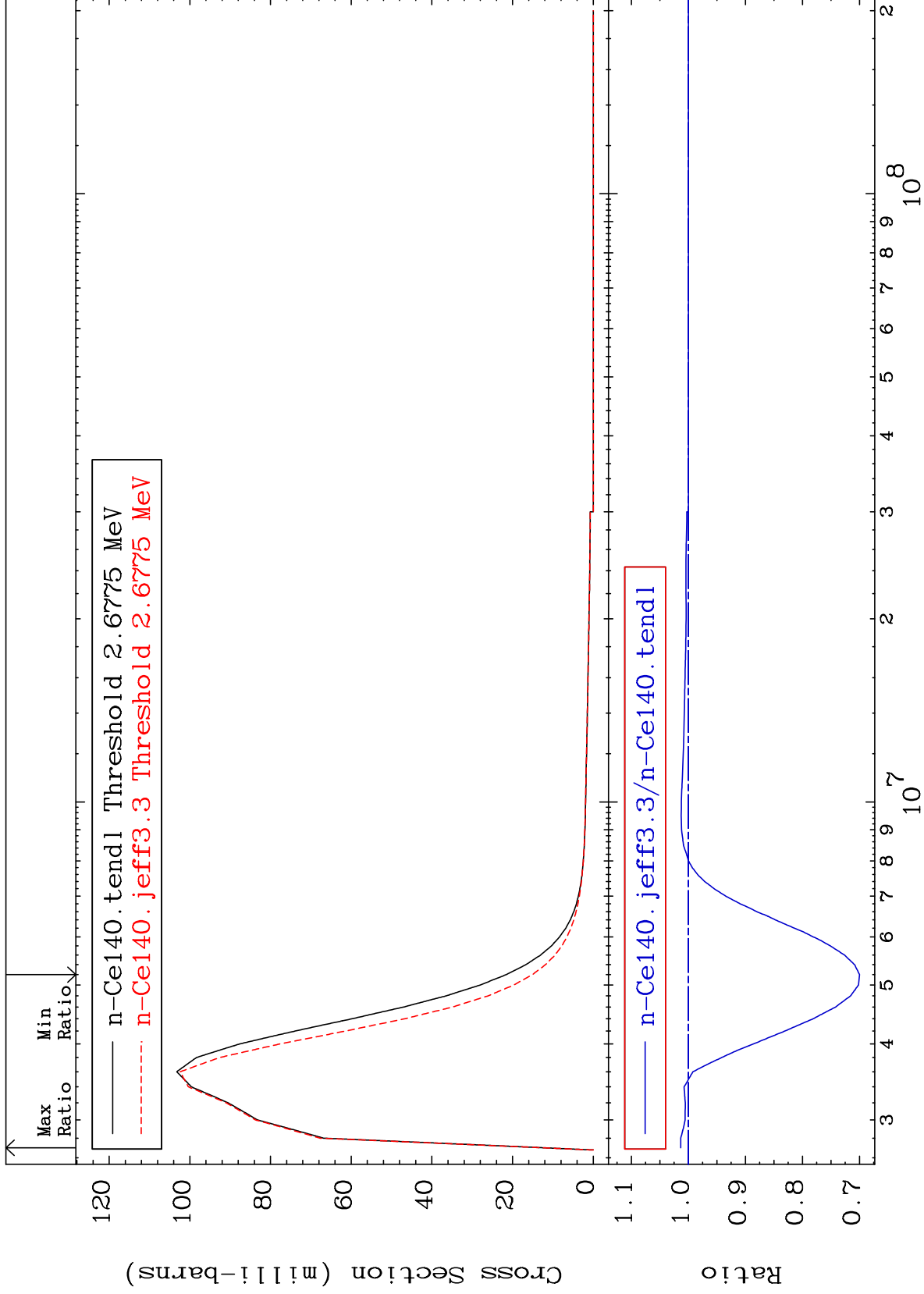
Incident Energy (eV)

58-Ce-140

MAT 5837

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

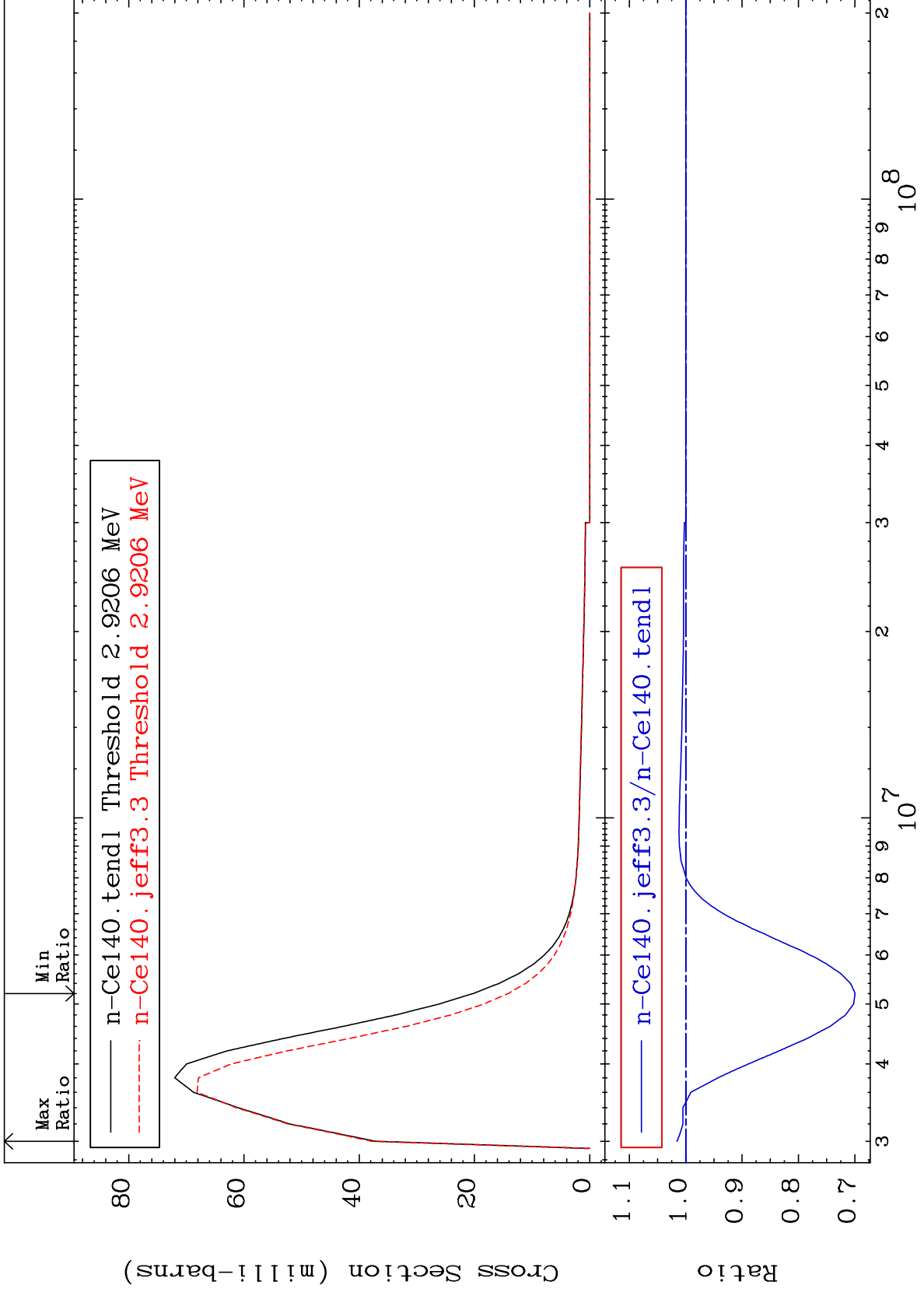
58-Ce-140
-30.02 To 1.327 %



MAT 5837

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

58-Ce-140
-30.05 To 1.569 %



35

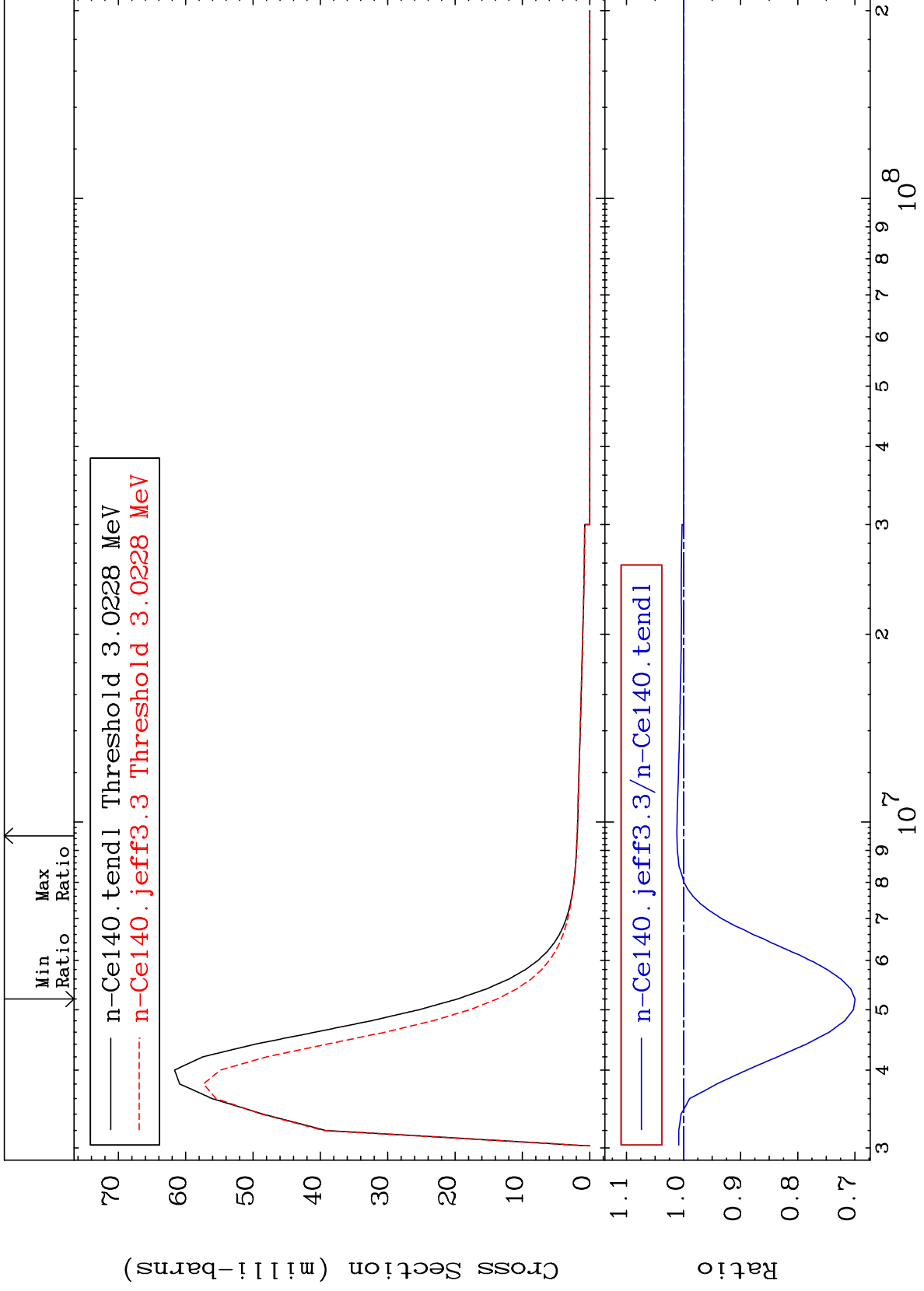
Incident Energy (eV)

58-Ce-140

MAT 5837

MT= 66 (n,n') Level
Cross Section

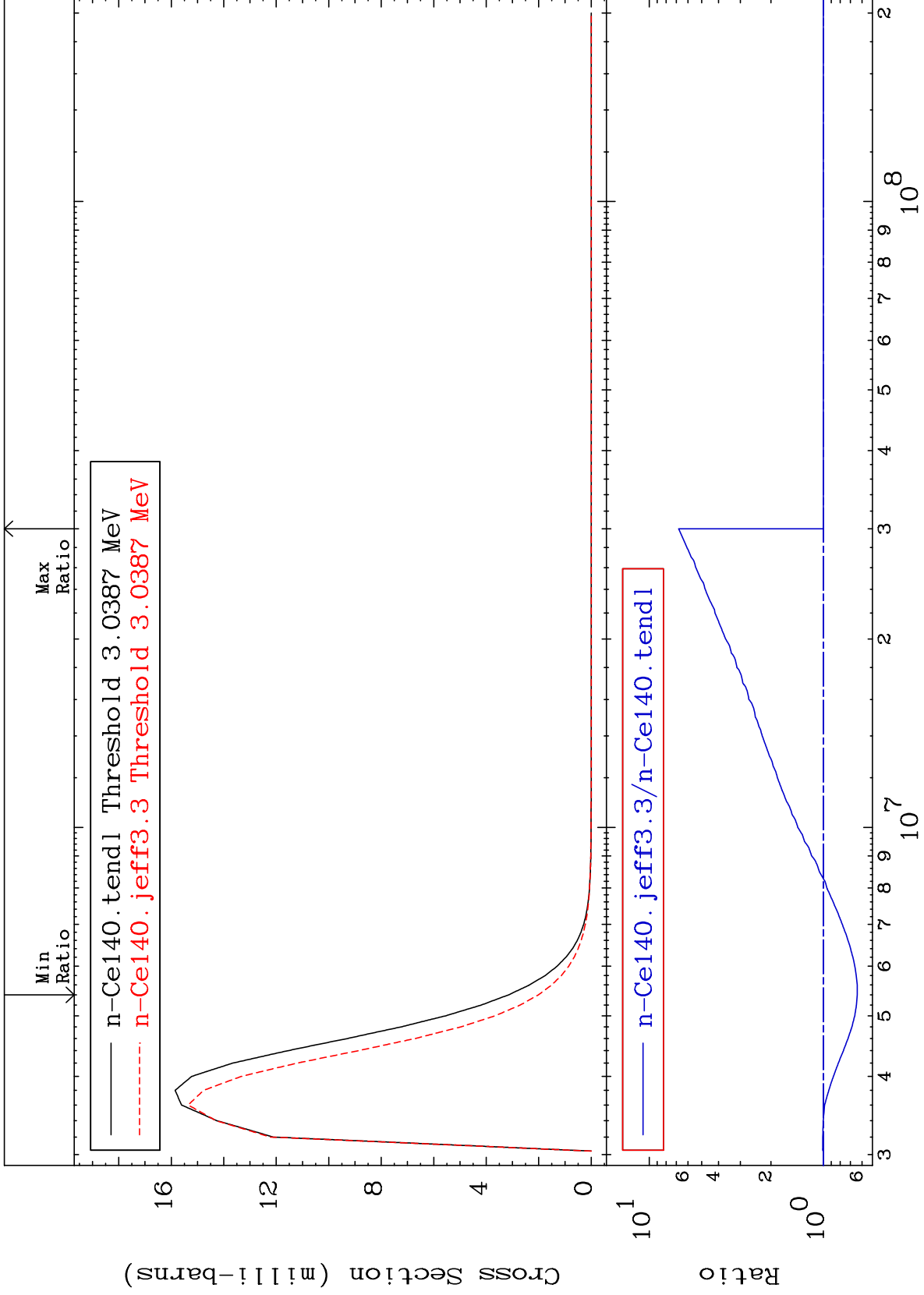
58-Ce-140
-30.05 To 1.172 %



MAT 5837

MT= 67 (n,n') Level
Cross Section

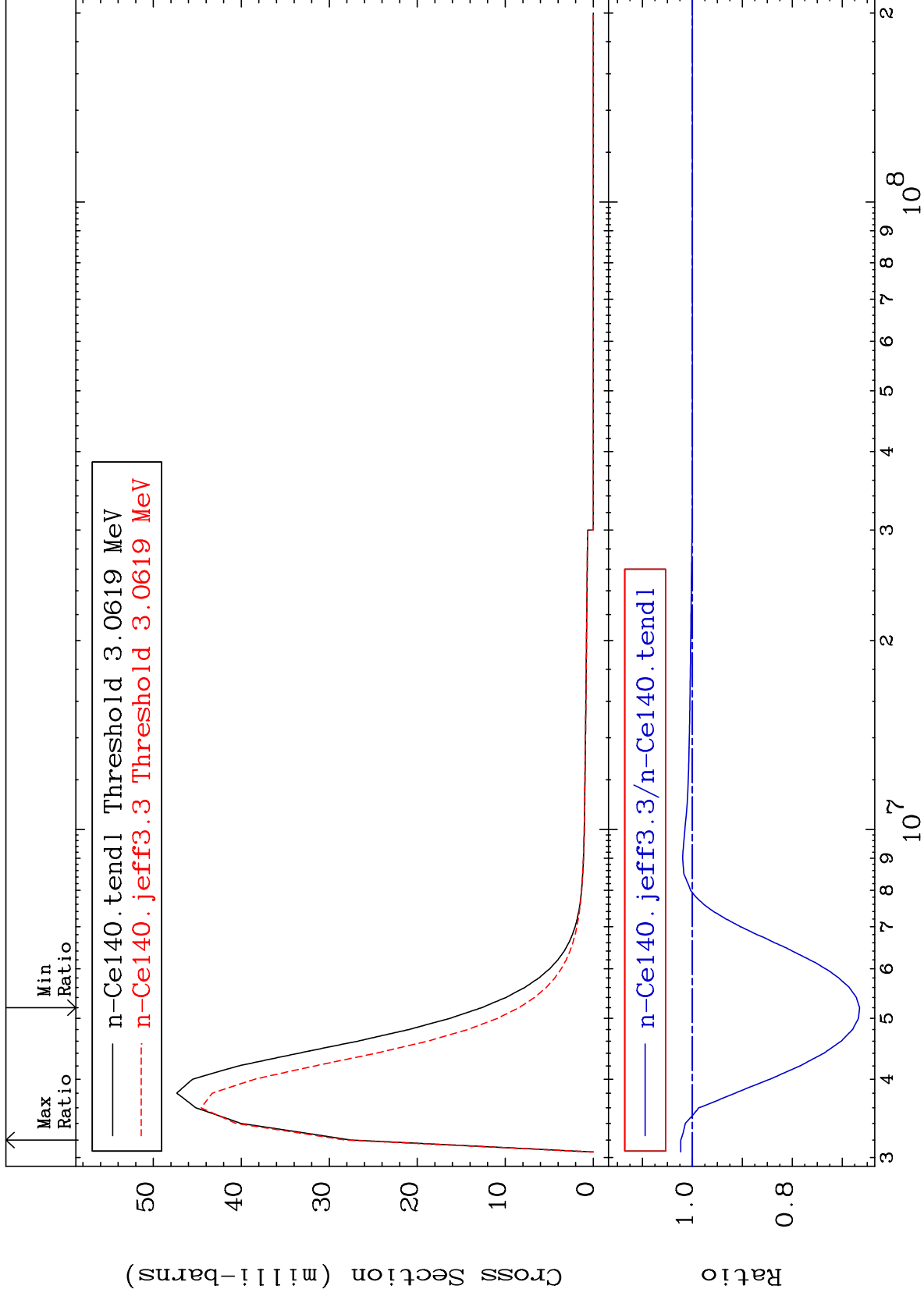
58-Ce-140
-36.11 To 578.3 %



MAT 5837

MT= 68 (n,n') Level
Cross Section

58-Ce-140
-33.44 To 2.317 %



38

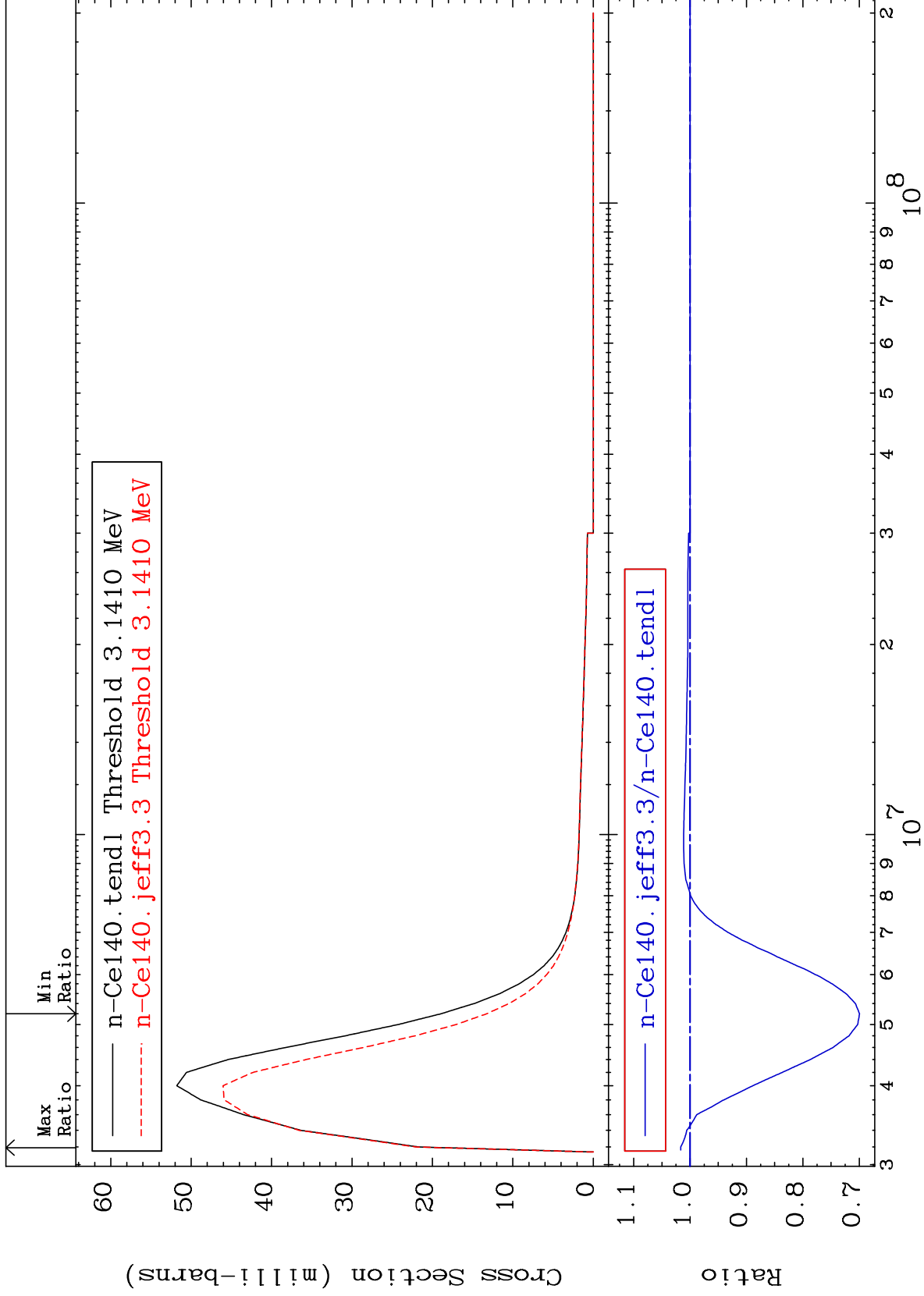
Incident Energy (eV)

58-Ce-140

MAT 5837

MT= 69 (n,n') Level
Cross Section

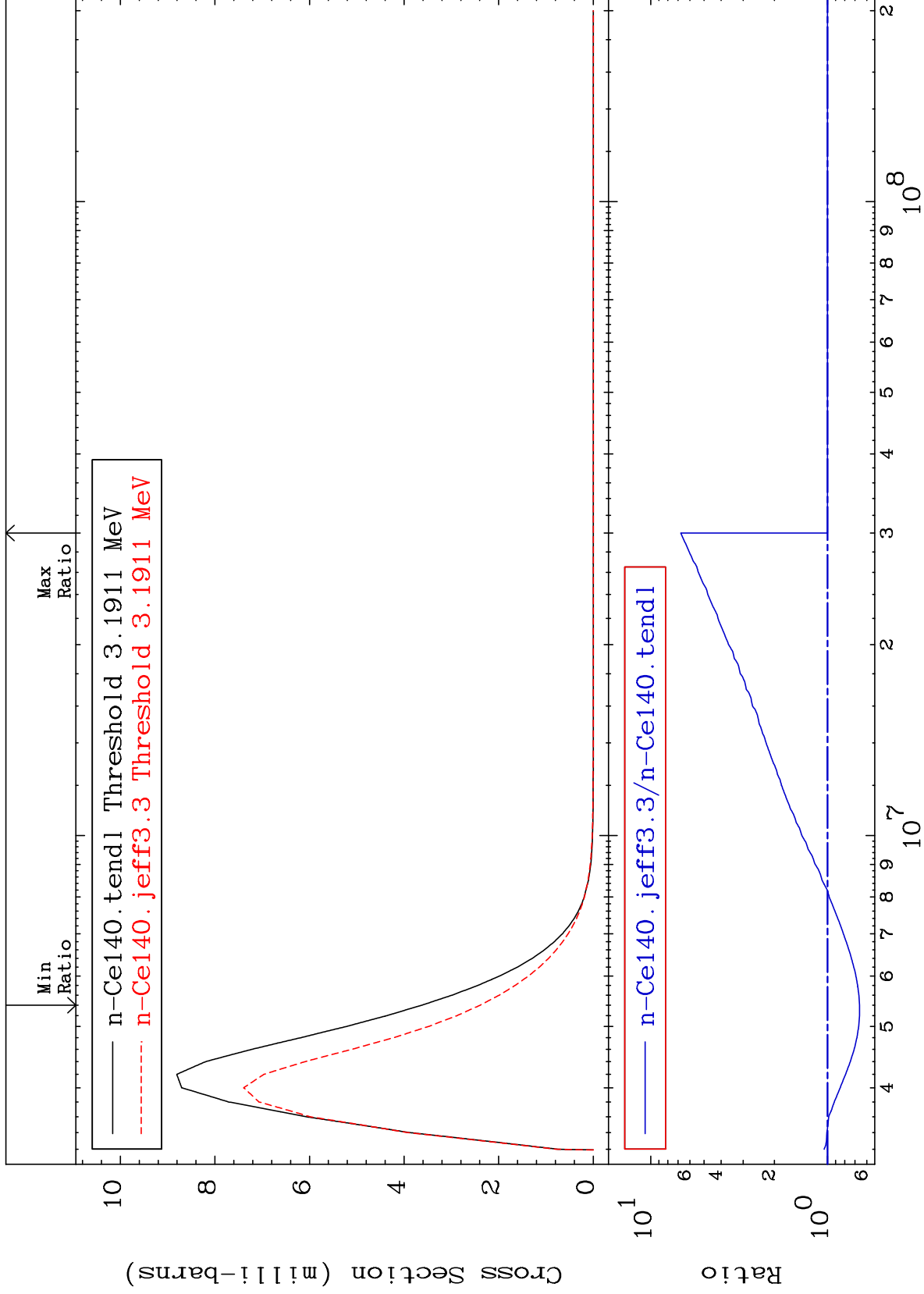
58-Ce-140
-30.05 To 1.655 %



MAT 5837

MT= 70 (n,n') Level
Cross Section

58-Ce-140
-34.04 To 576.2 %



40

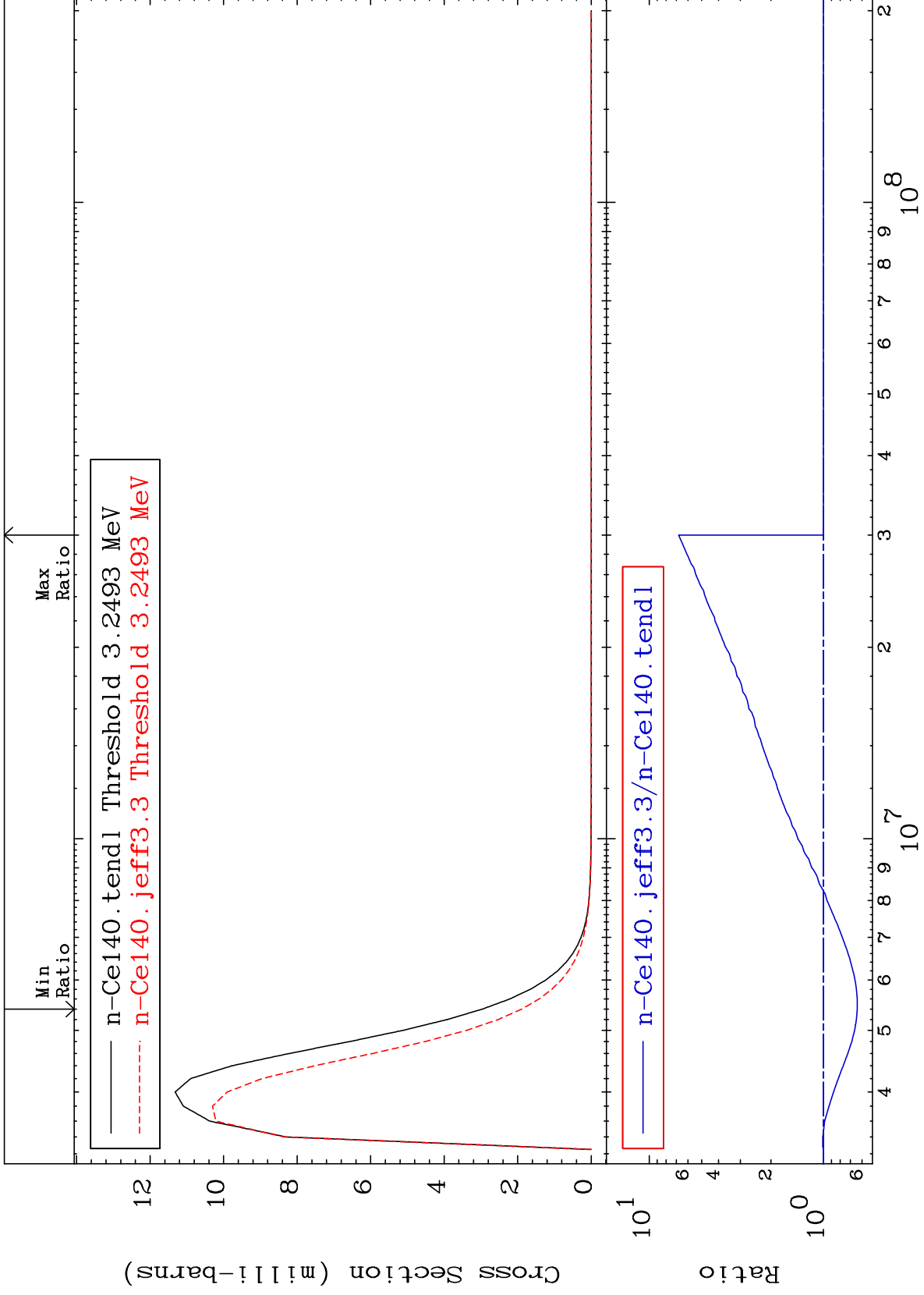
Incident Energy (eV)

58-Ce-140

MAT 5837

MT= 71 (n,n') Level
Cross Section

58-Ce-140
-36.07 To 578.4 %



41

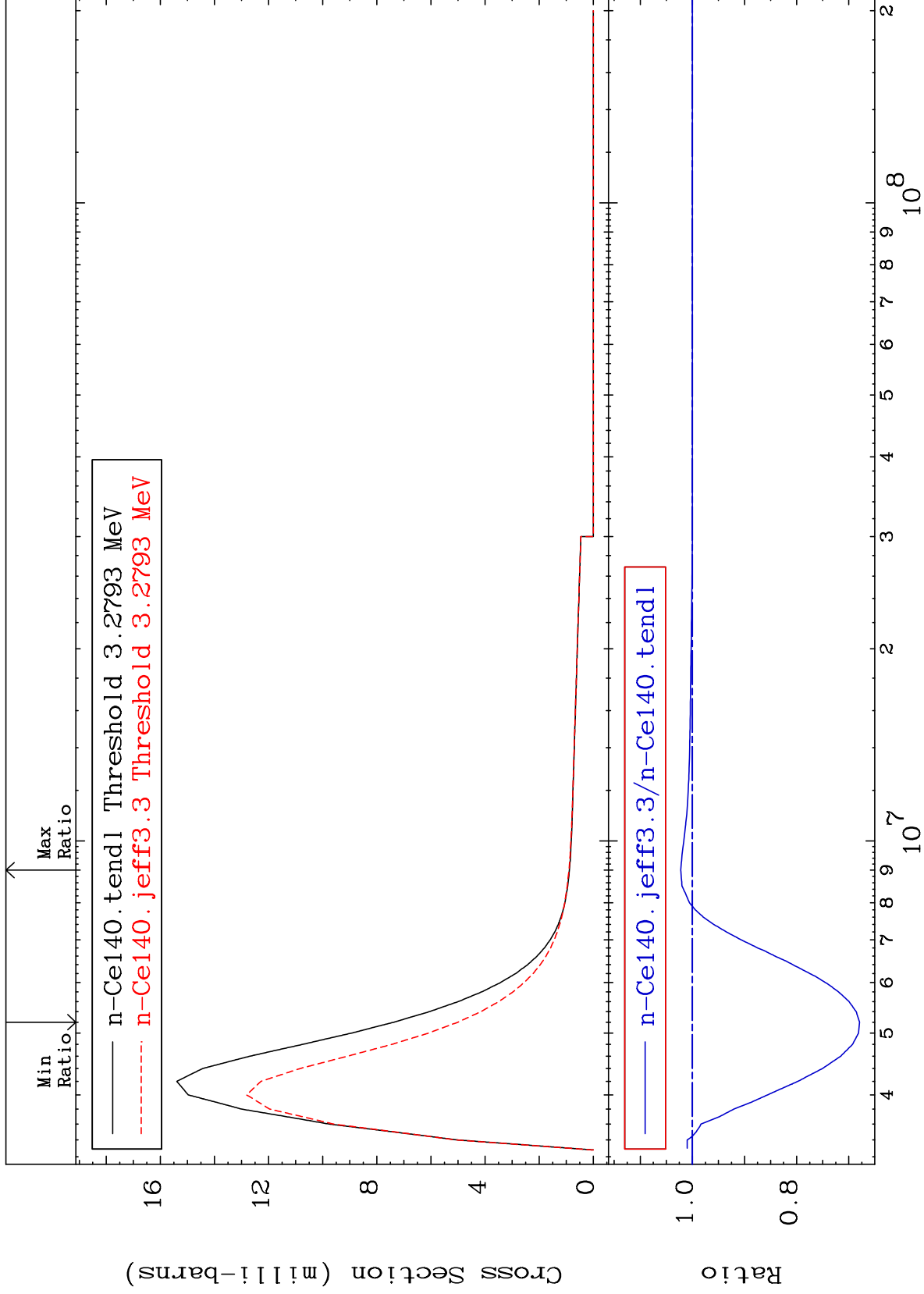
Incident Energy (eV)

58-Ce-140

MAT 5837

MT= 72 (n,n') Level
Cross Section

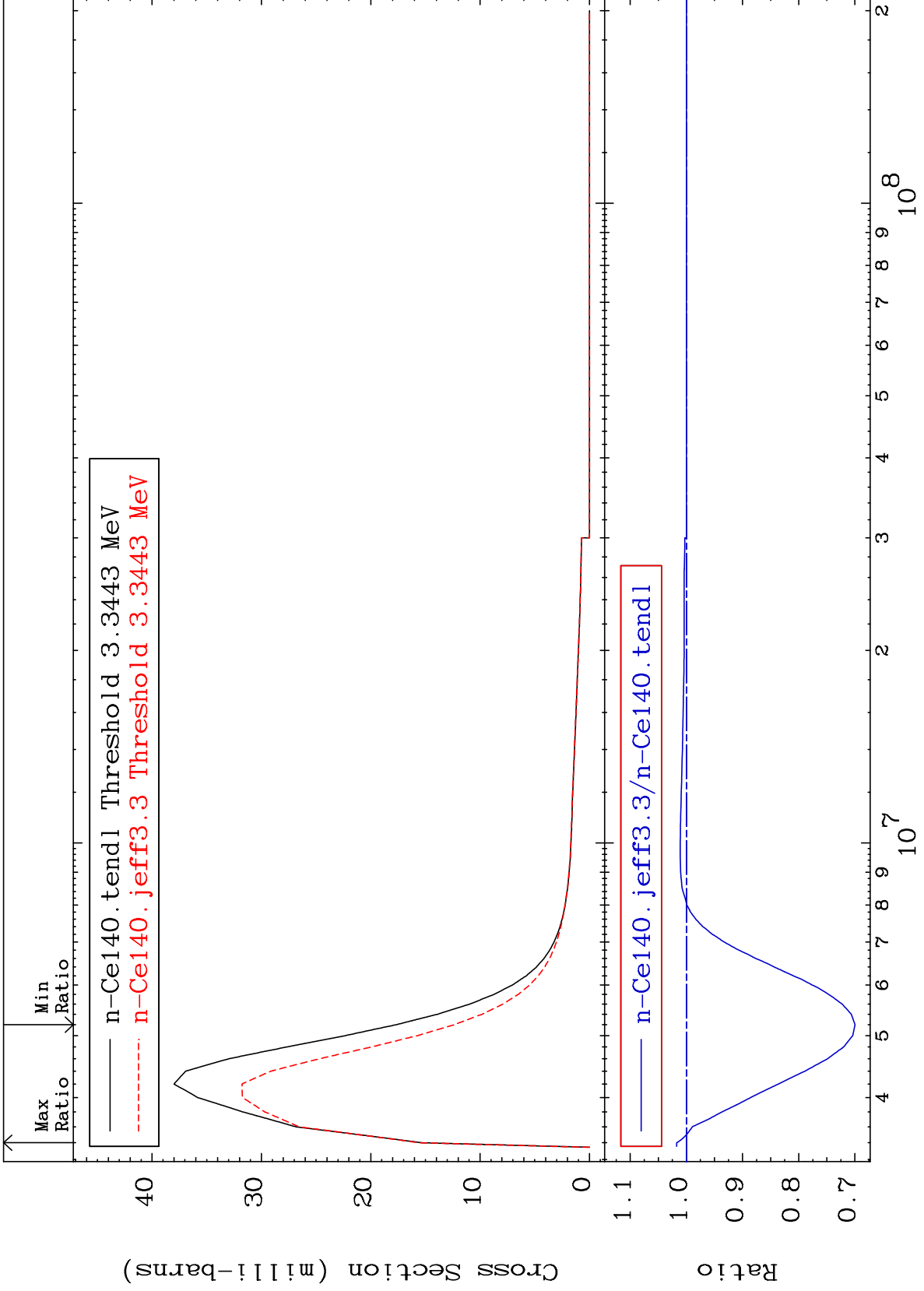
58-Ce-140
-32.06 To 2.229 %



MAT 5837

MT= 73 (n,n') Level
Cross Section

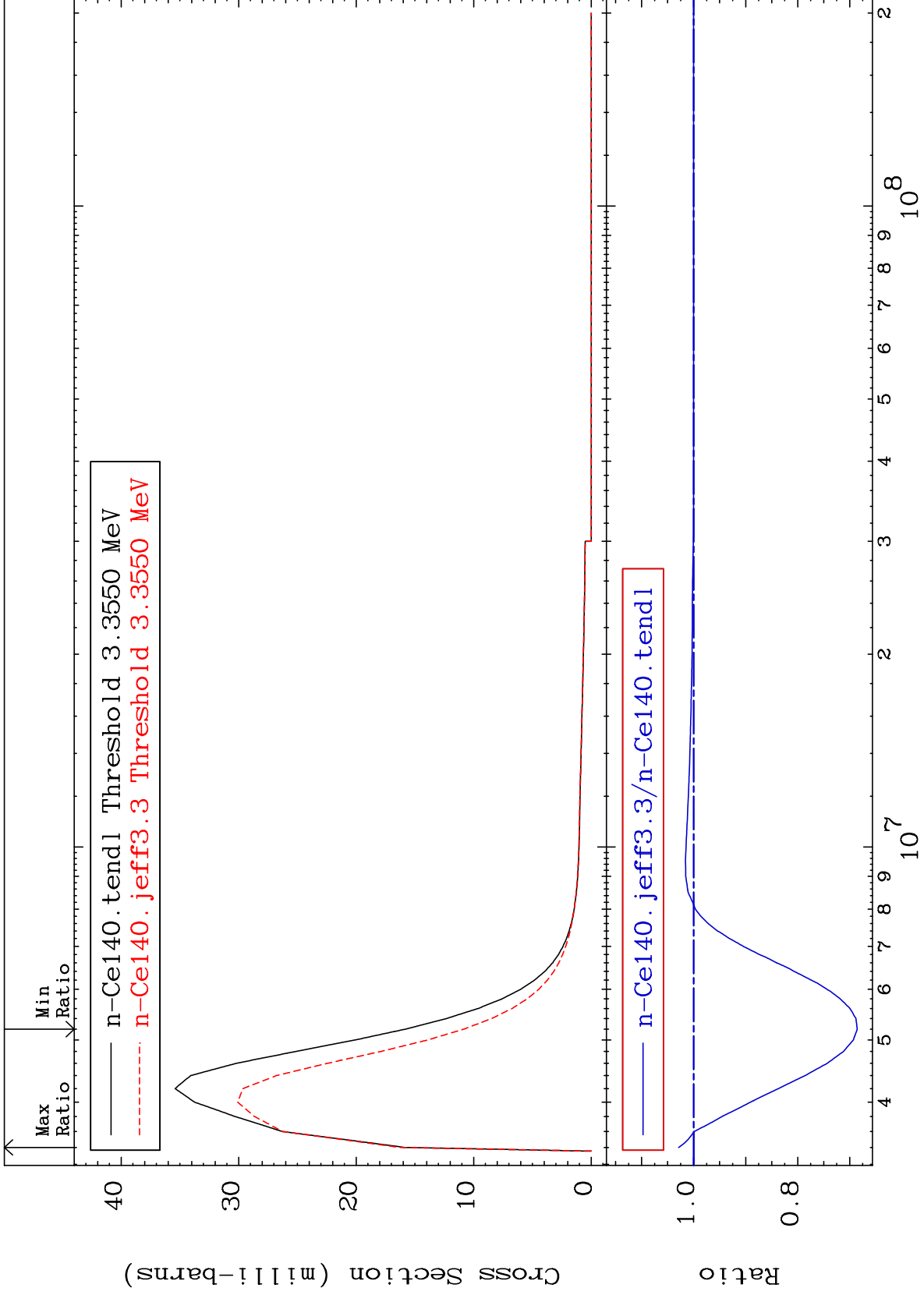
58-Ce-140
-30.02 To 1.721 %



MAT 5837

MT= 74 (n,n') Level
Cross Section

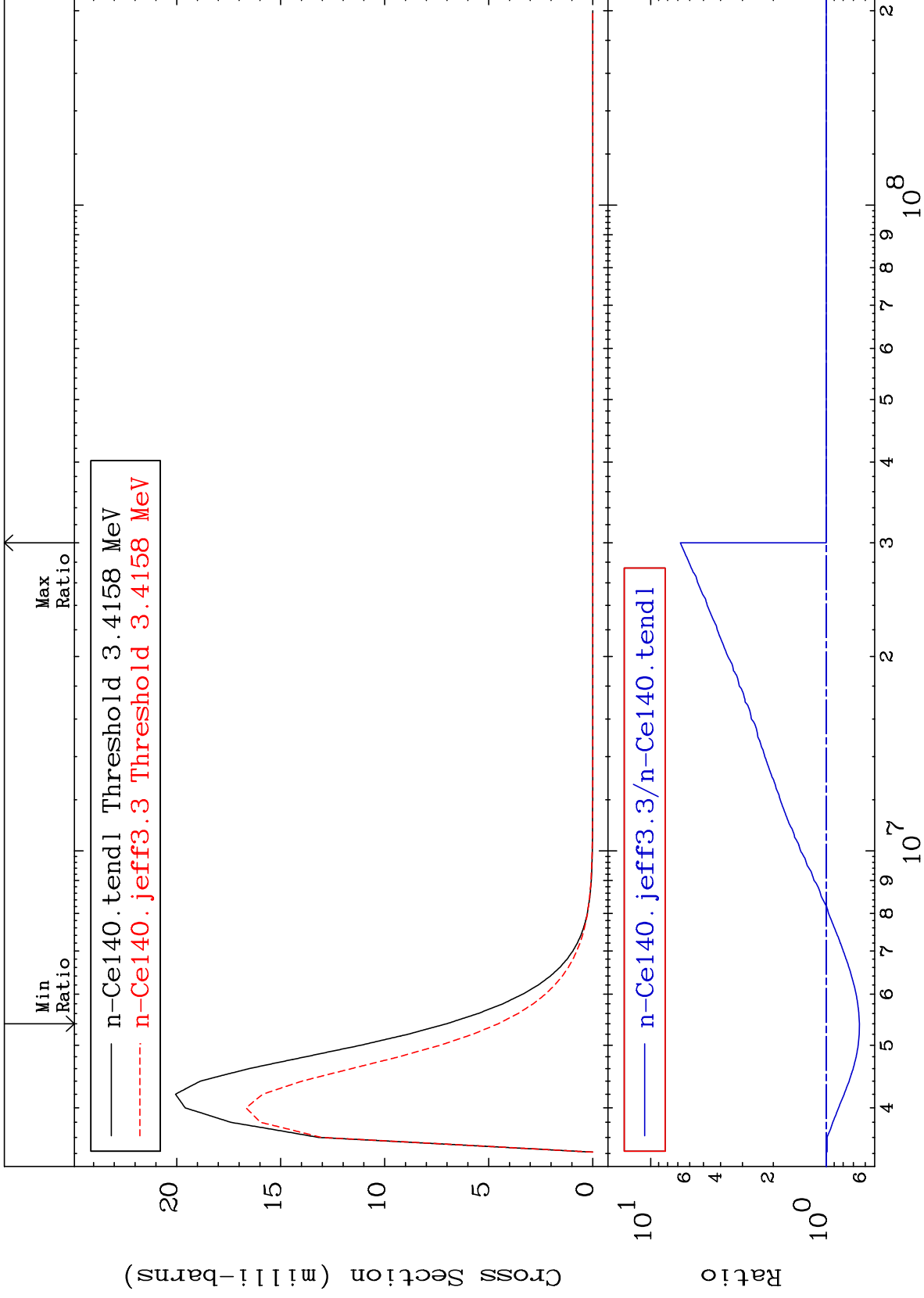
58-Ce-140
-31.44 To 2.883 %



MAT 5837

MT= 75 (n,n') Level
Cross Section

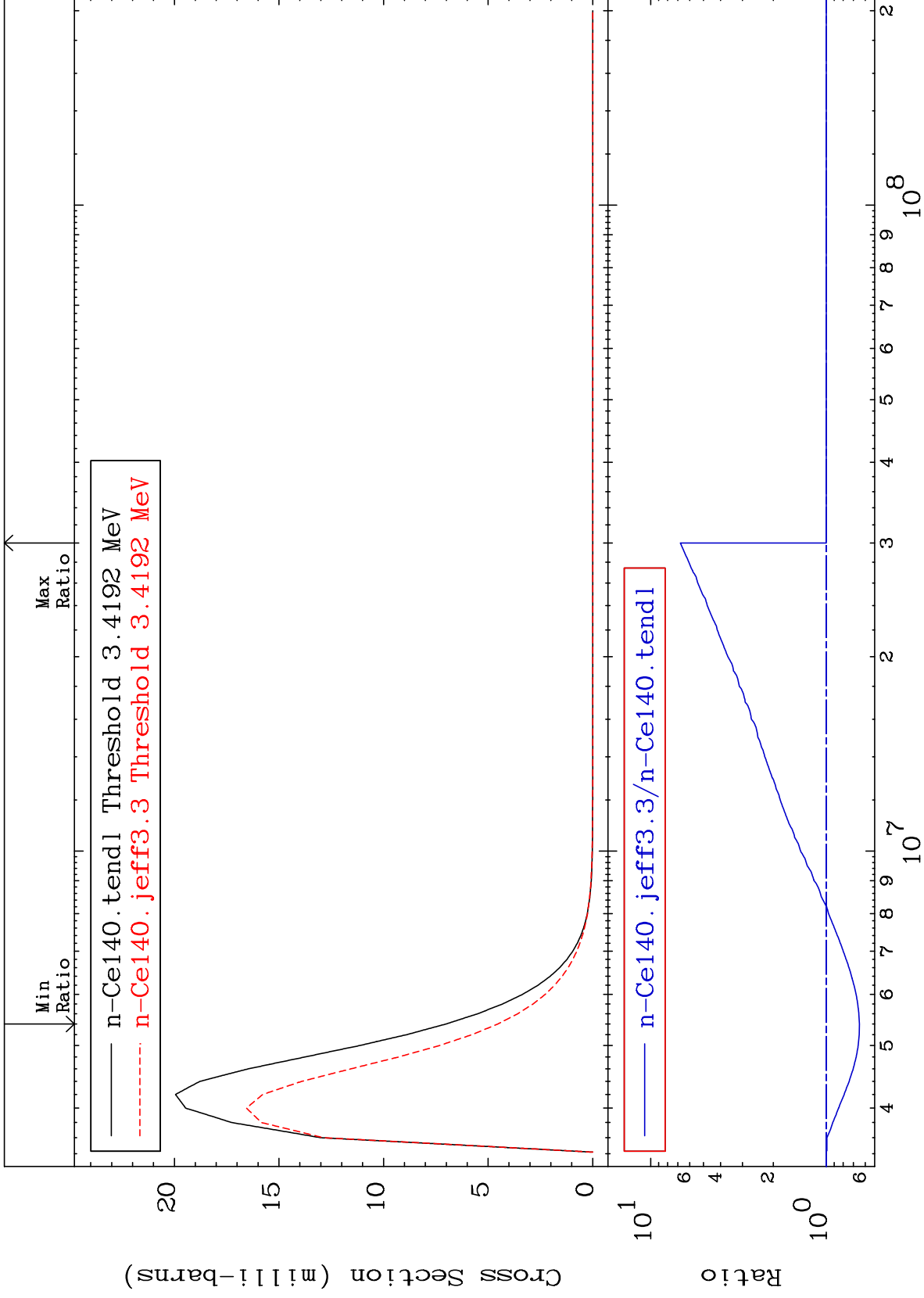
58-Ce-140
-35.29 To 577.5 %



MAT 5837

MT= 76 (n,n') Level
Cross Section

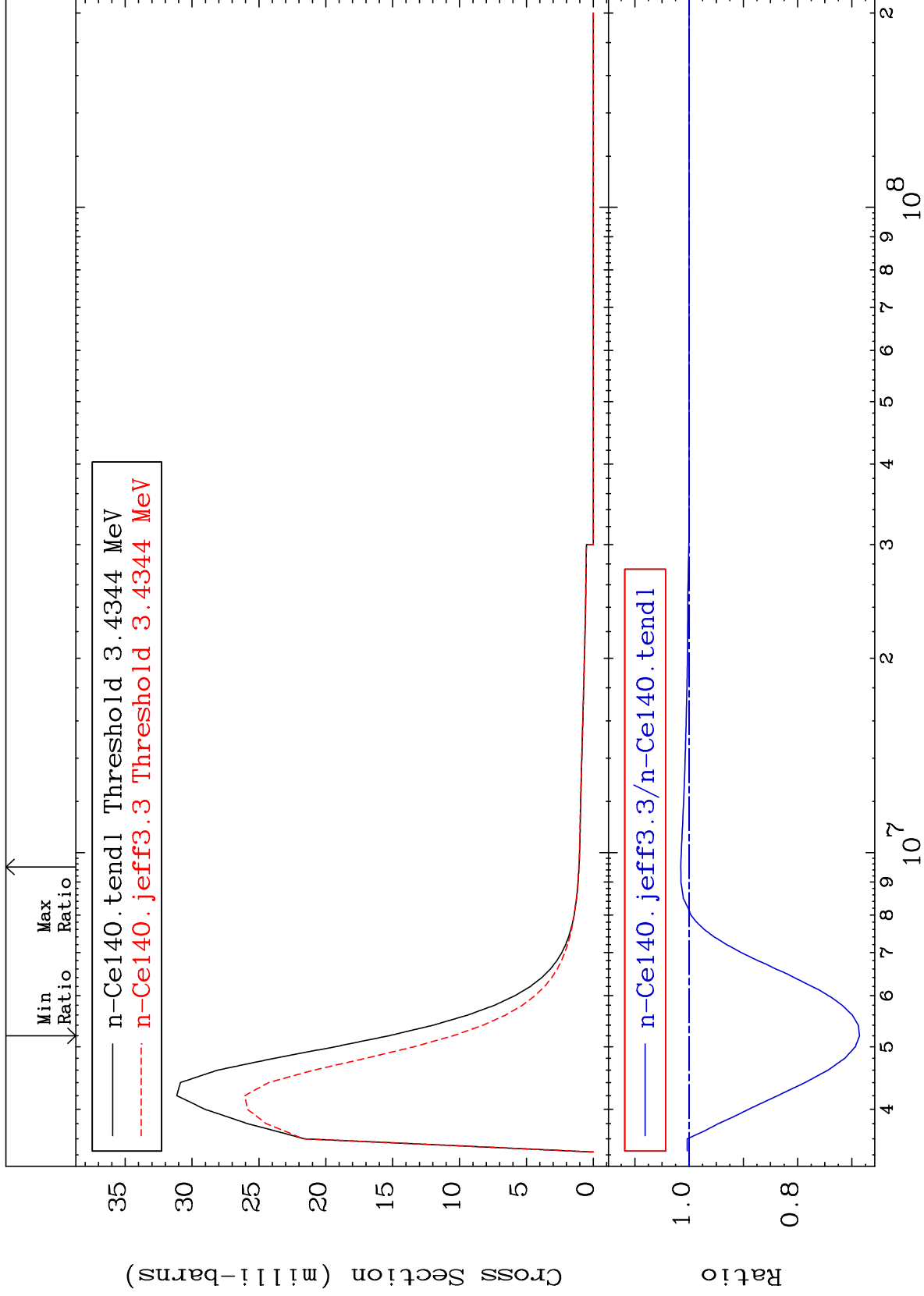
58-Ce-140
-35.29 To 577.5 %



MAT 5837

MT= 77 (n,n') Level
Cross Section

58-Ce-140
-31.41 To 1.539 %



47

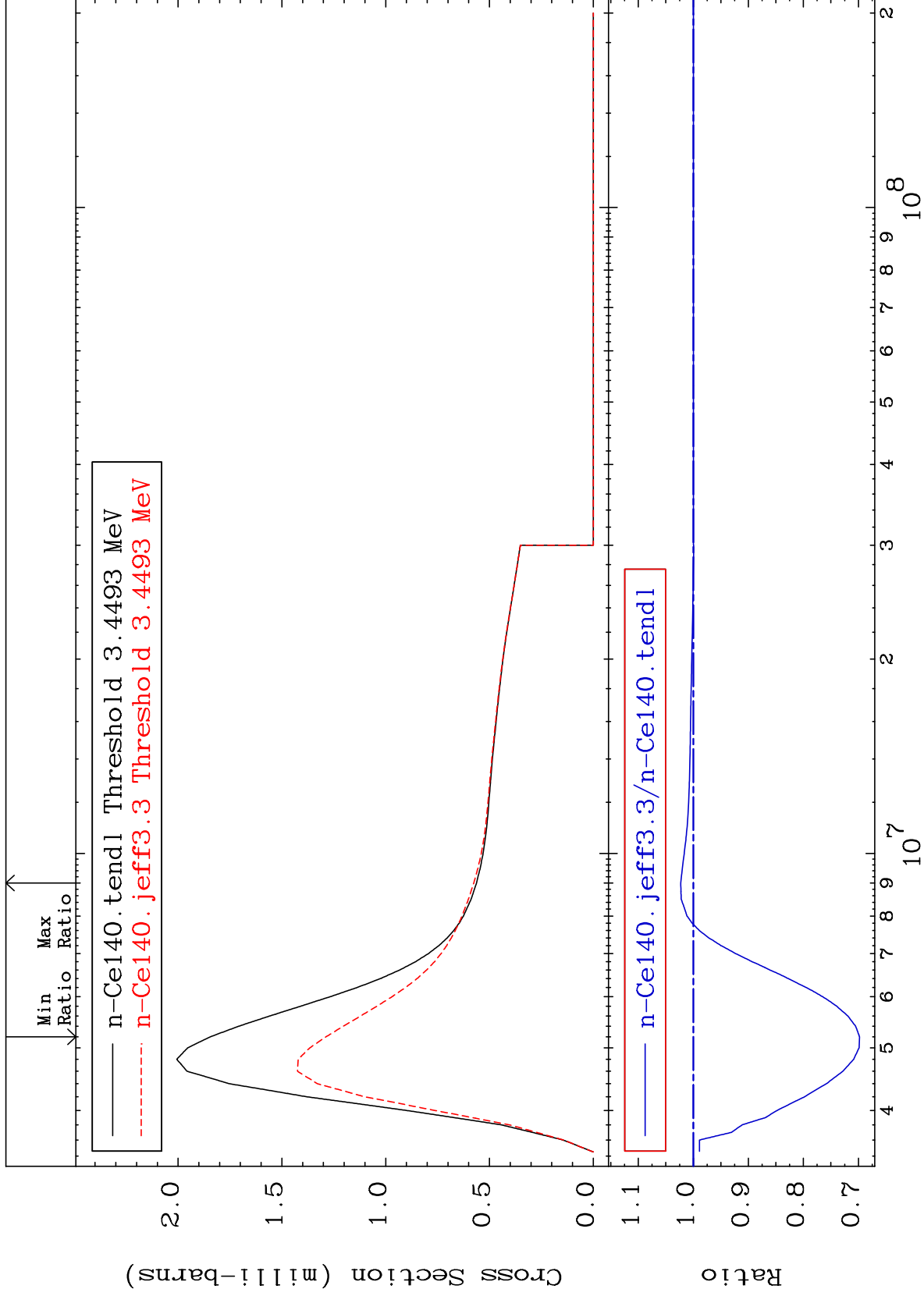
Incident Energy (eV)

58-Ce-140

MAT 5837

MT= 78 (n,n') Level
Cross Section

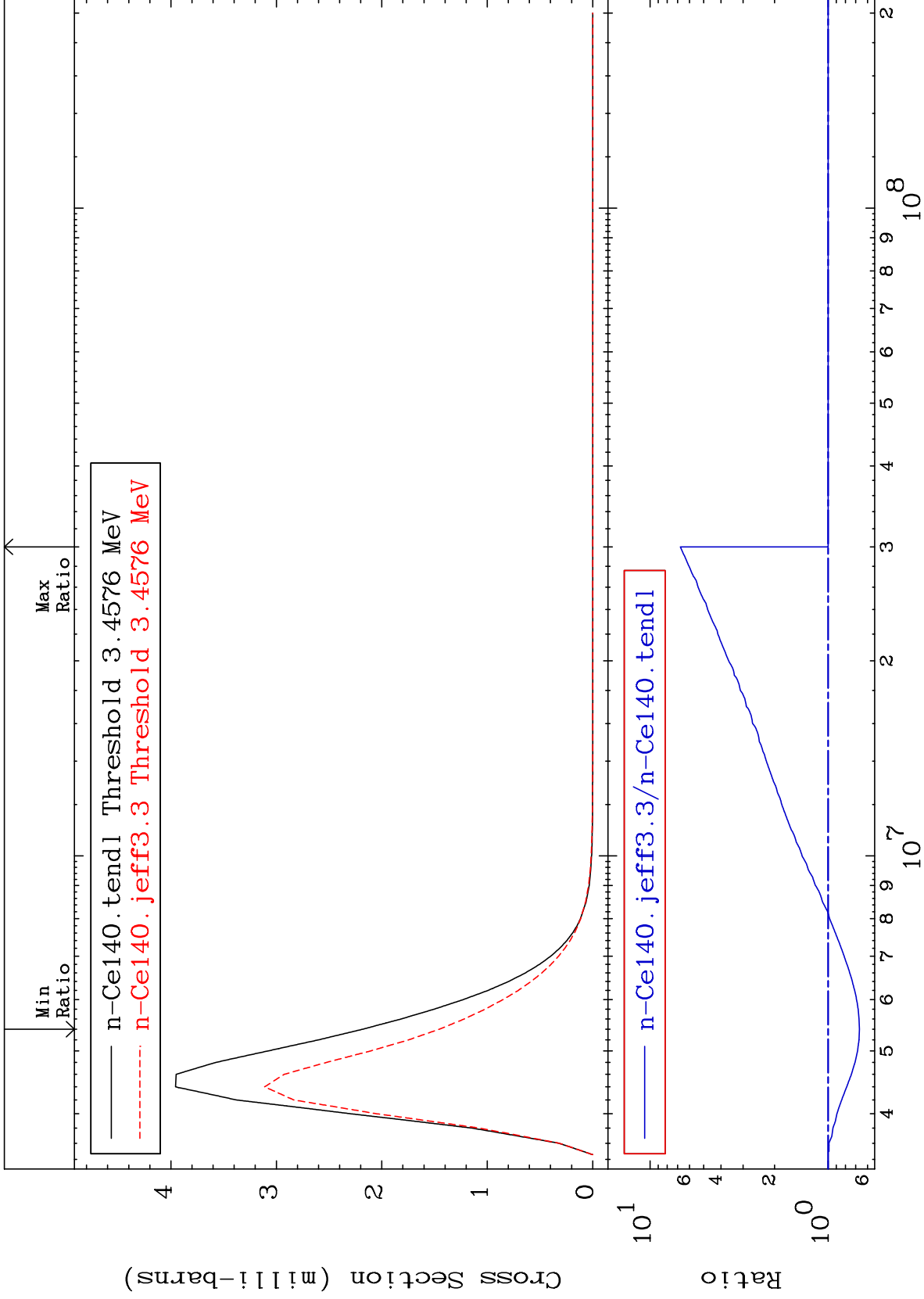
58-Ce-140
-30.20 To 2.286 %



MAT 5837

MT= 79 (n,n') Level
Cross Section

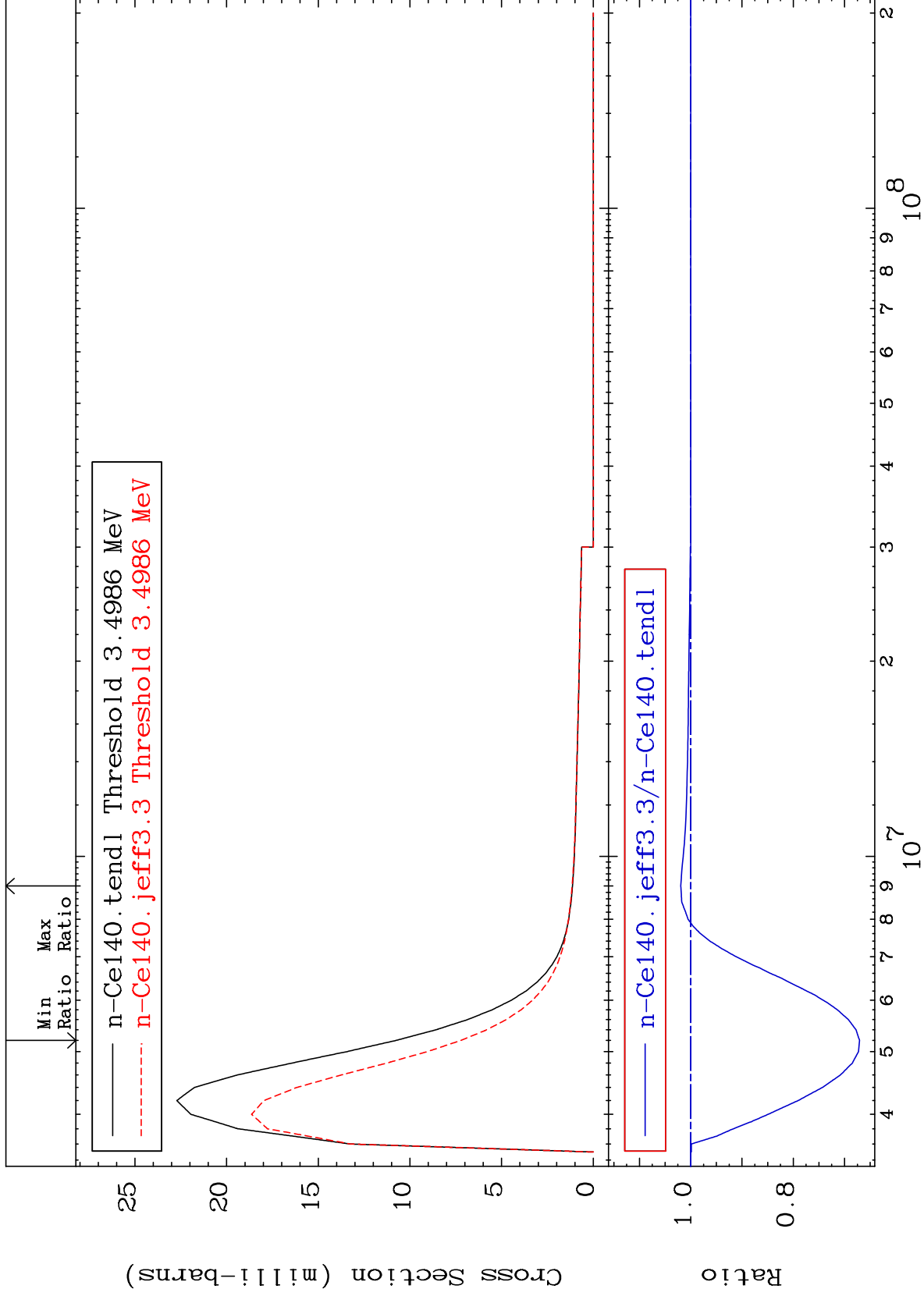
58-Ce-140
-33.27 To 575.4 %



MAT 5837

MT= 80 (n,n') Level
Cross Section

58-Ce-140
-32.92 To 1.941 %



50

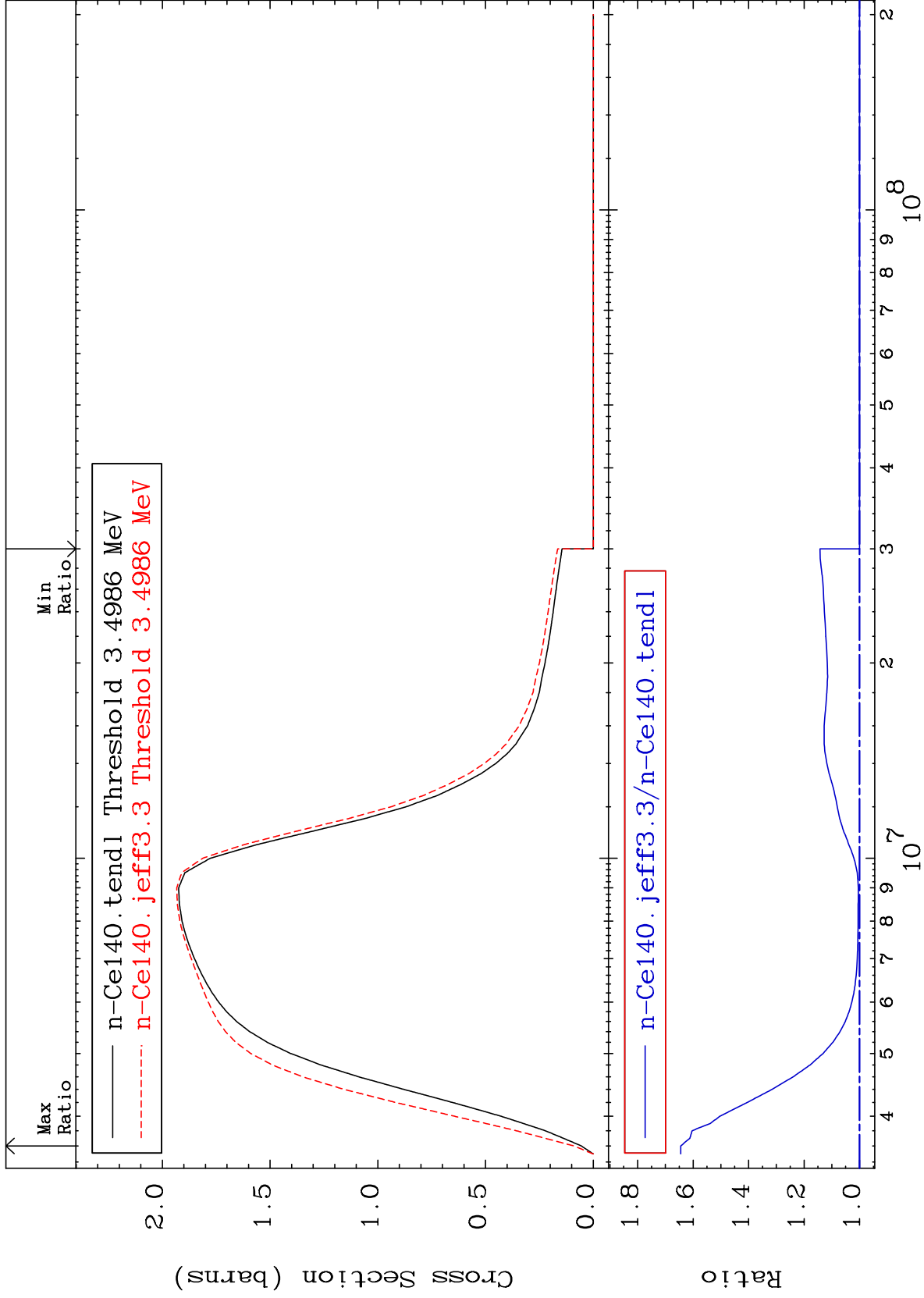
Incident Energy (eV)

58-Ce-140

MAT 5837

(n,n') Continuum
Cross Section

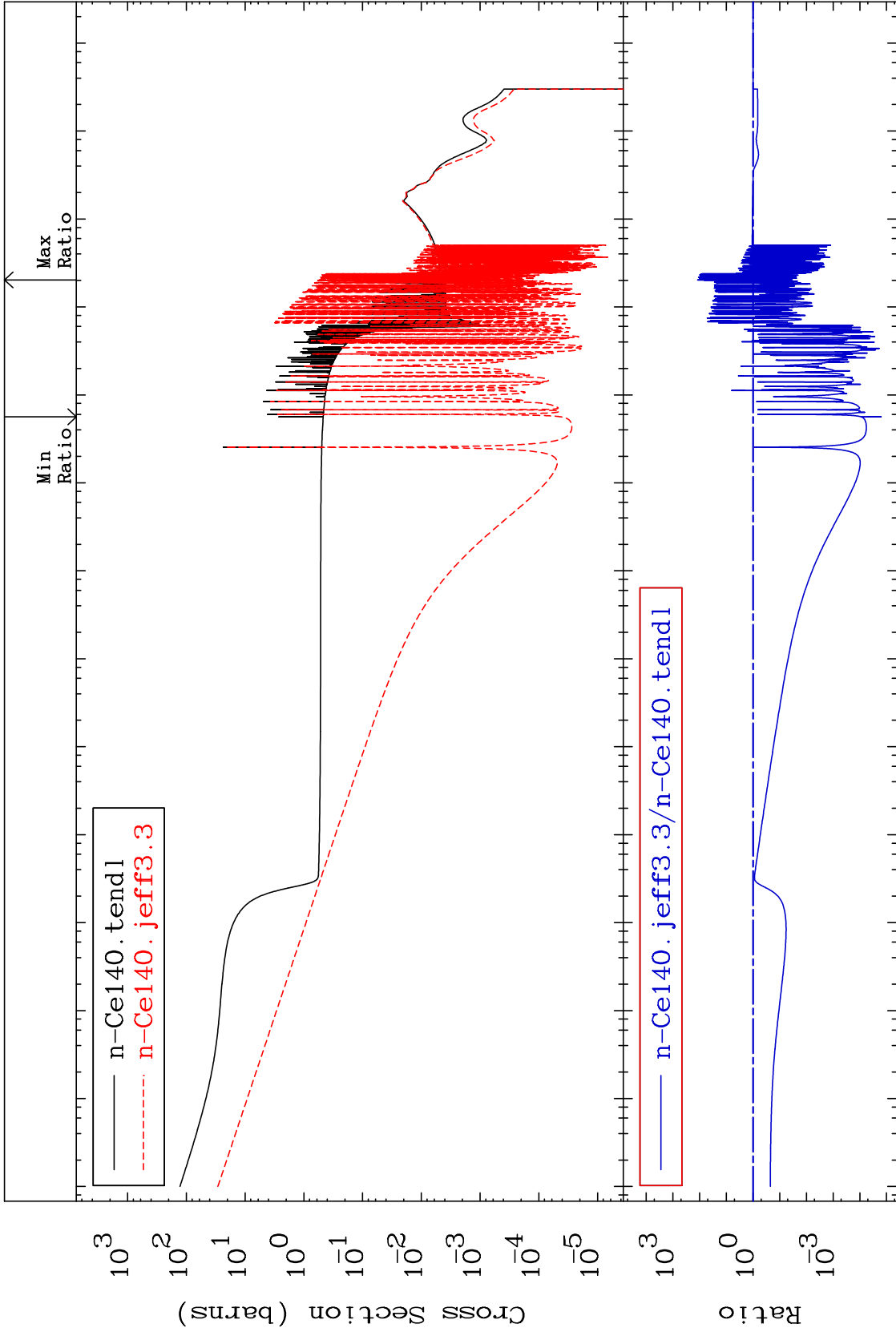
58-Ce-140
To 64.45 %



MAT 5837

(n, γ)
Cross Section

58-Ce-140
-100.0 To 9999. %



52

Incident Energy (eV)

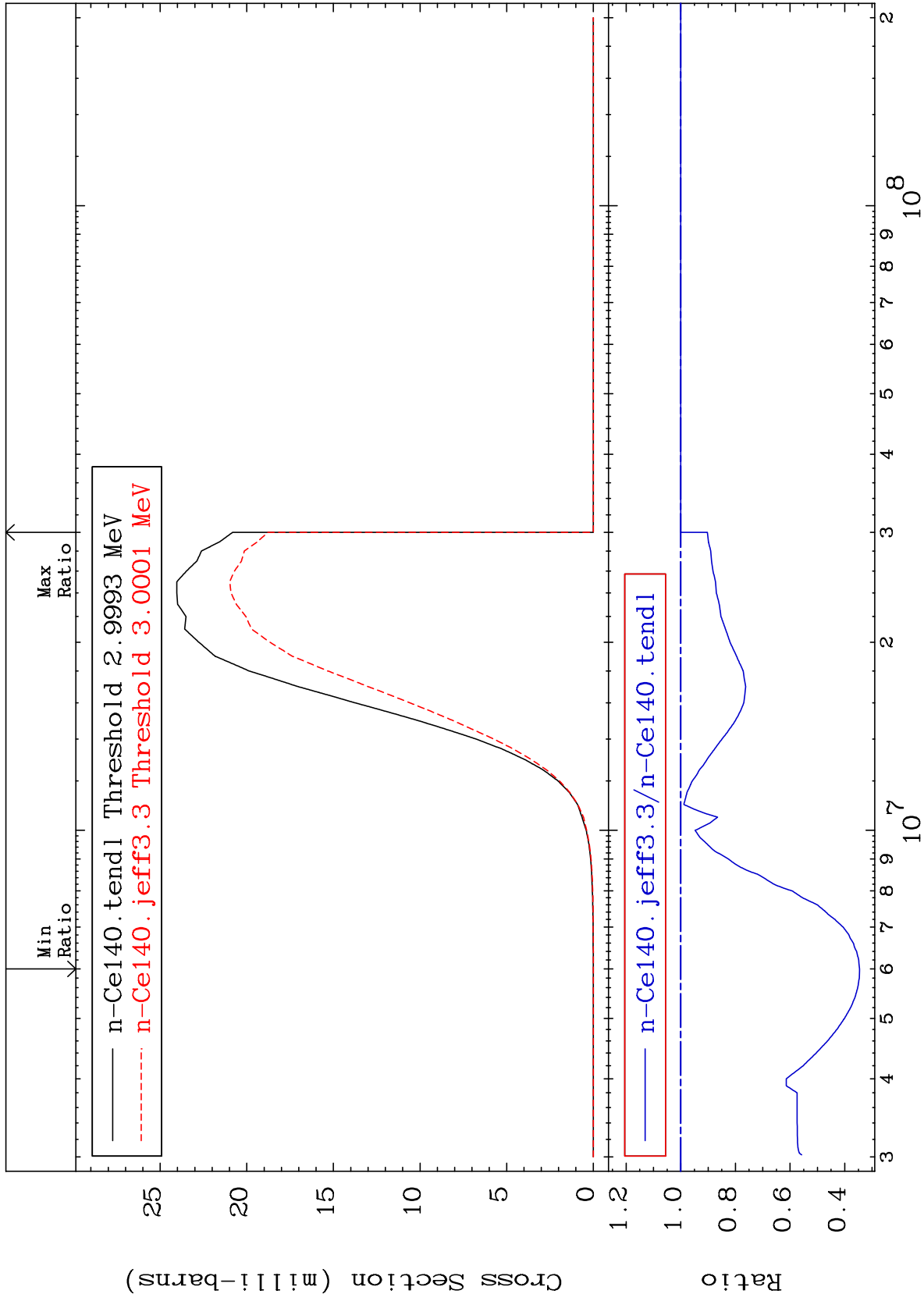
58-Ce-140

MAT 5837

58-Ce-140

(n, p)
Cross Section

-65.40 To 0.000 %



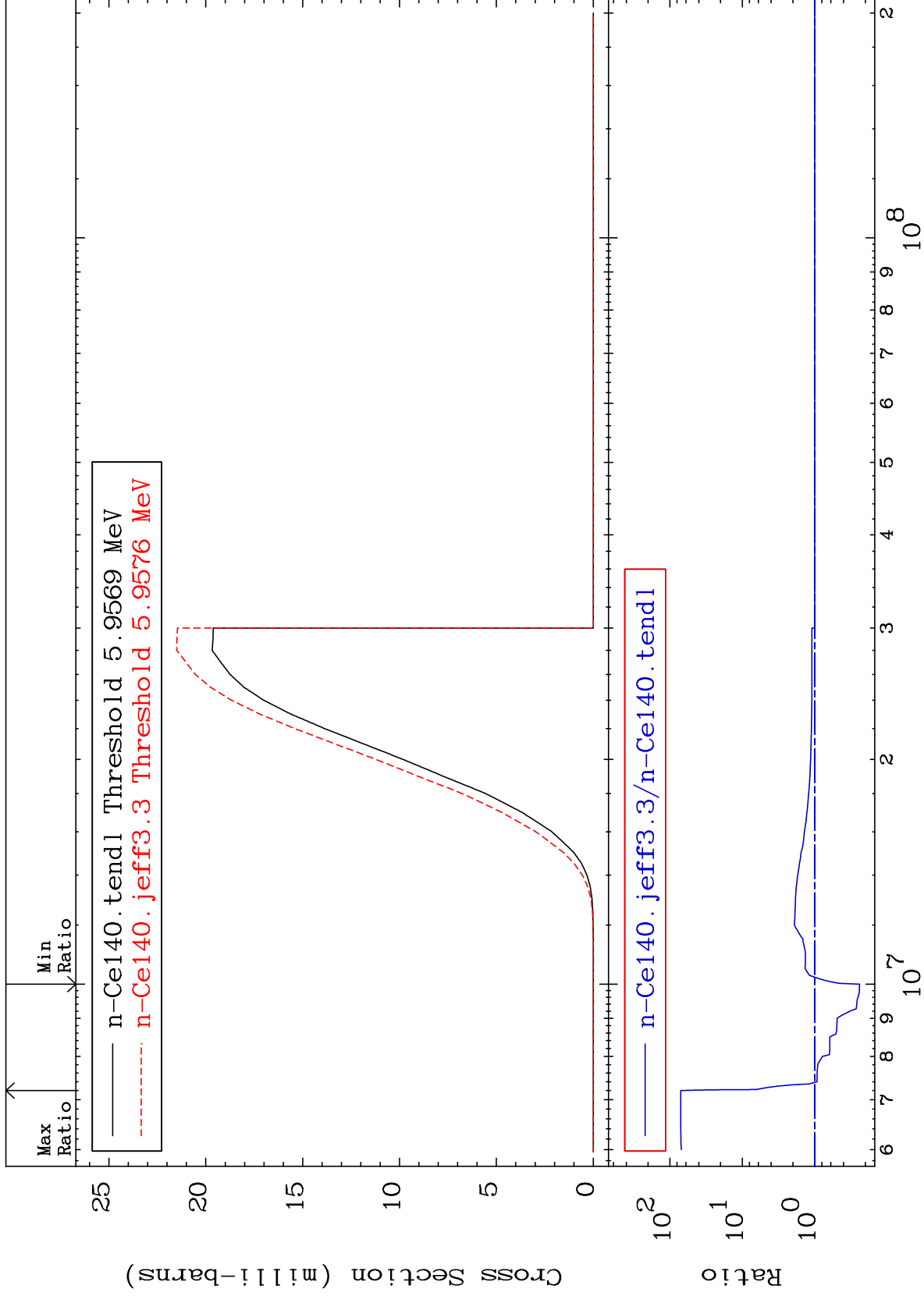
MAT 5837

(n, d)

58-Ce-140

Cross Section

-75.92 To 6983. %



54

Incident Energy (eV)

58-Ce-140

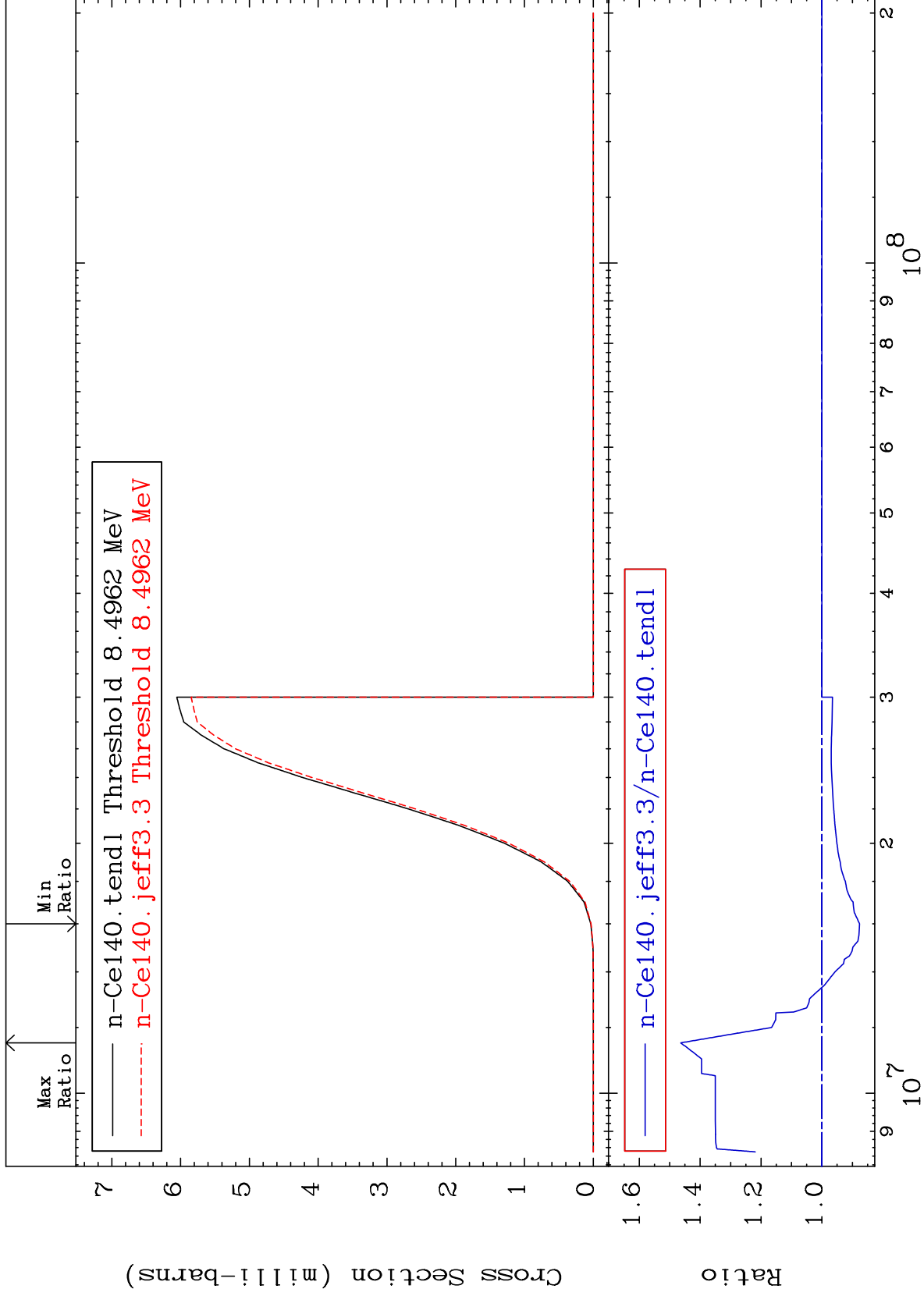
MAT 5837

(n, t)

58-Ce-140

Cross Section

-12.36 To 46.37 %



55

Incident Energy (eV)

58-Ce-140

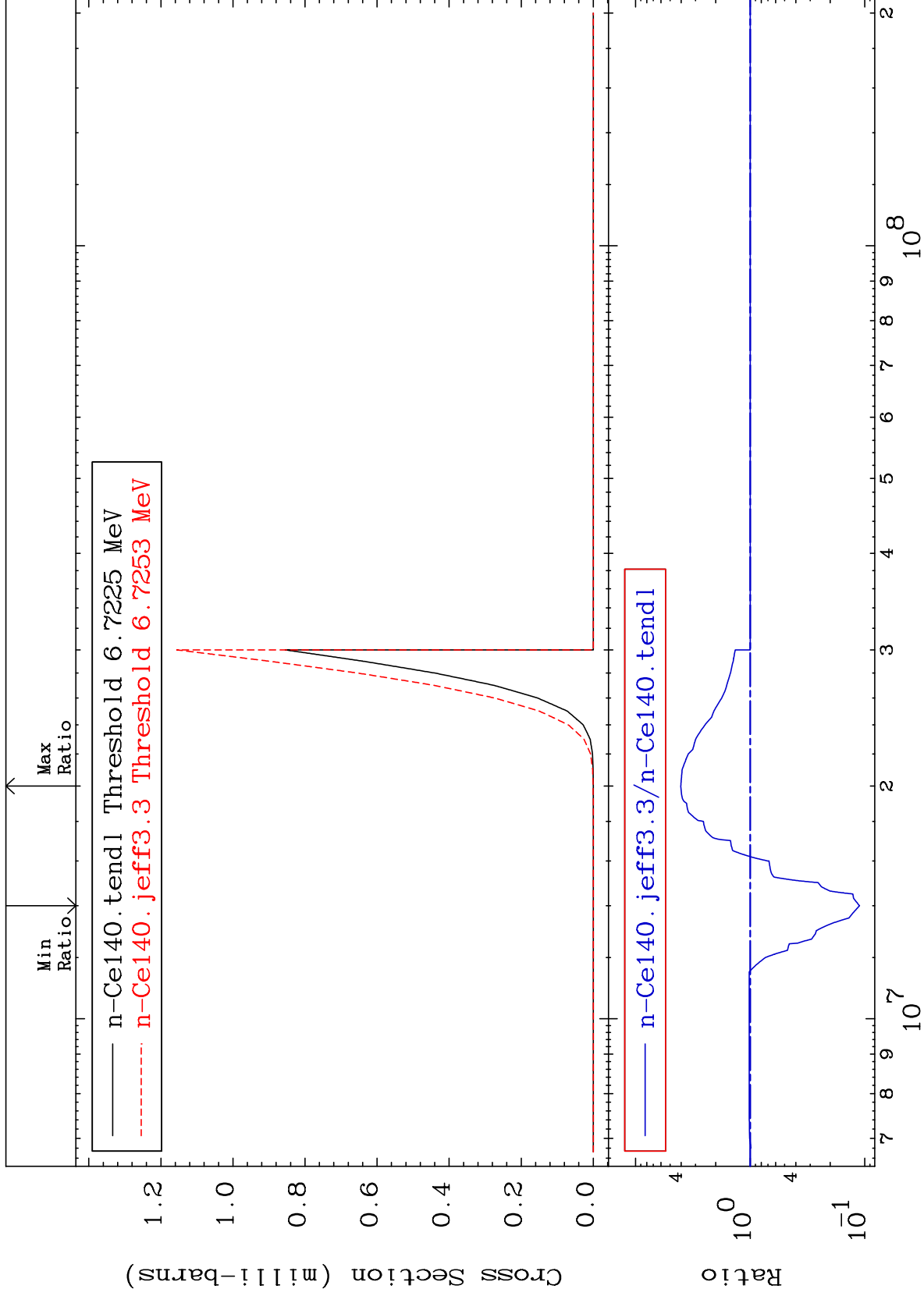
MAT 5837

(n, He-3)

58-Ce-140

Cross Section

-88.89 To 303.4 %



56

Incident Energy (eV)

58-Ce-140

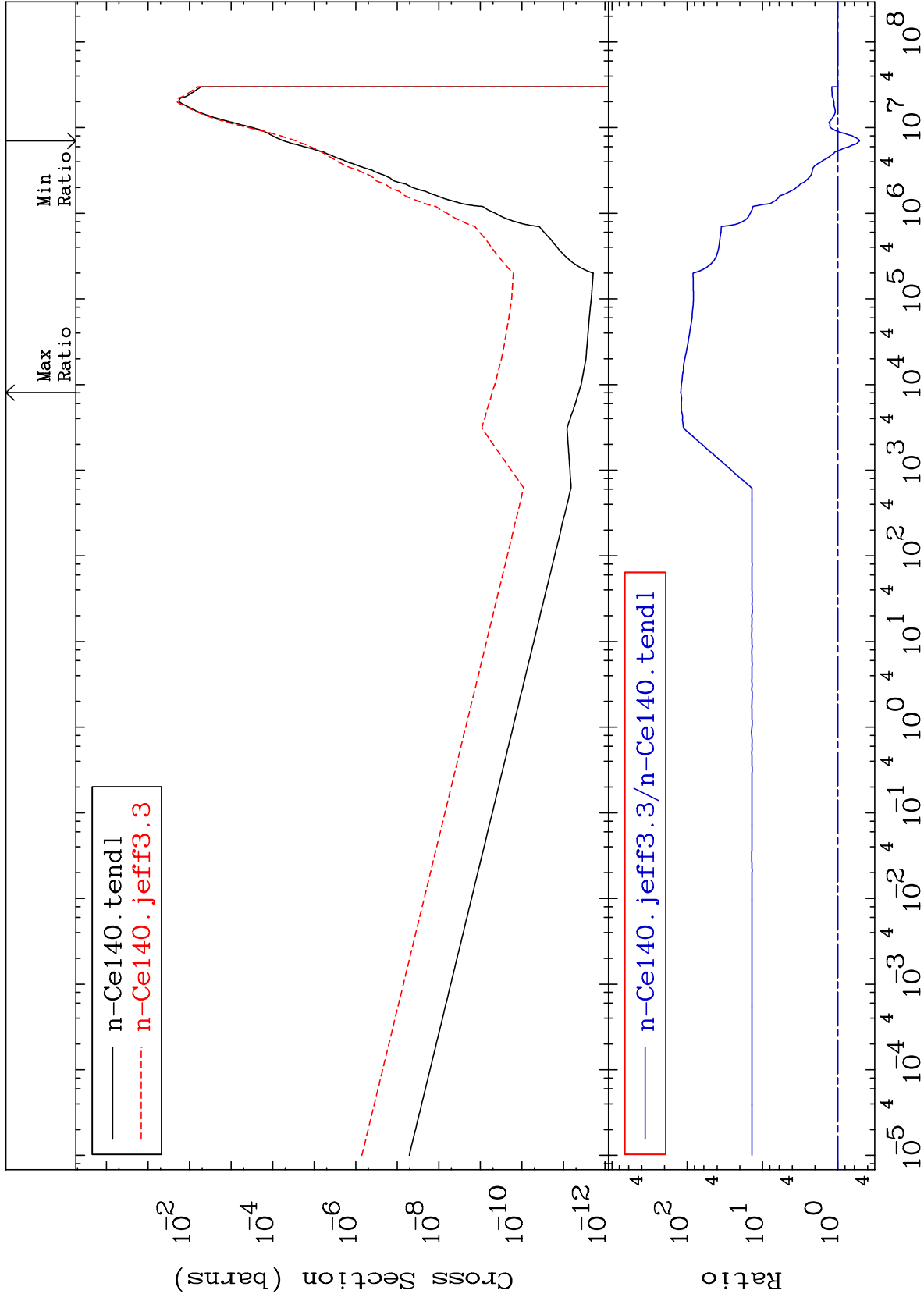
MAT 5837

(n, α)

58-Ce-140

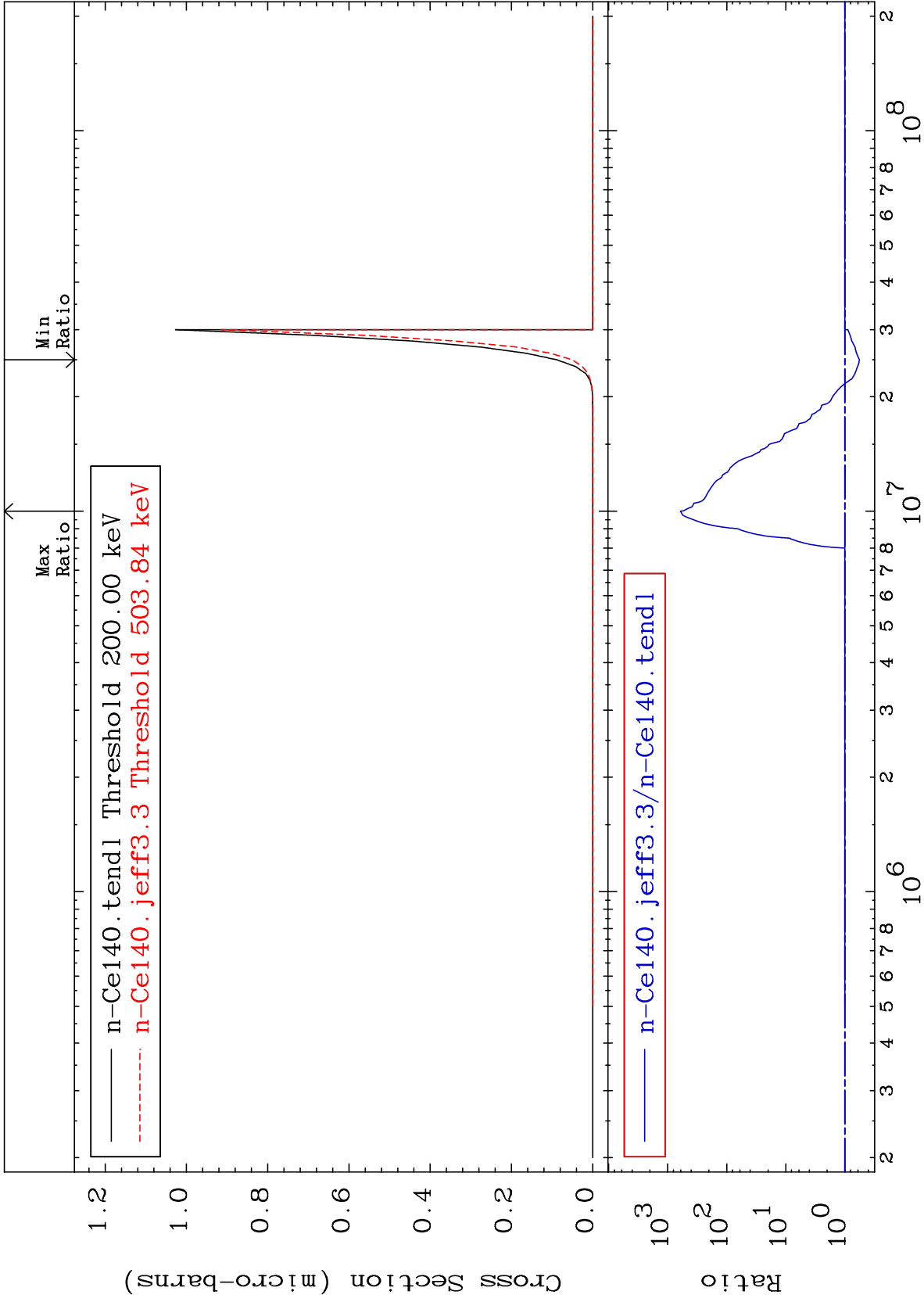
Cross Section

-48.76 To 9999. %



Cross Section

-43.23 To 9999. %



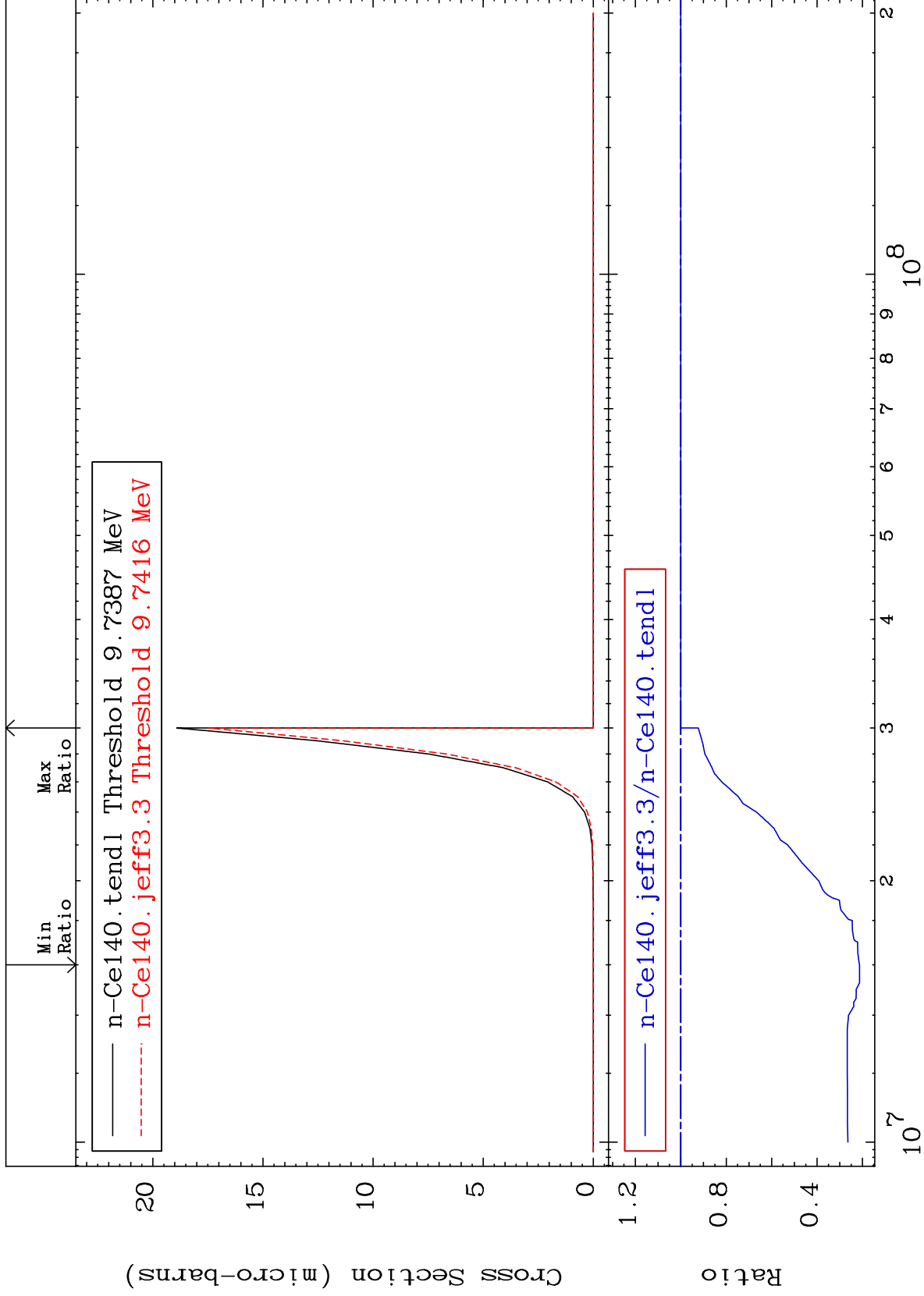
MAT 5837

(n,2p)

58-Ce-140

Cross Section

-78.69 To 0.000 %



59

Incident Energy (eV)

58-Ce-140

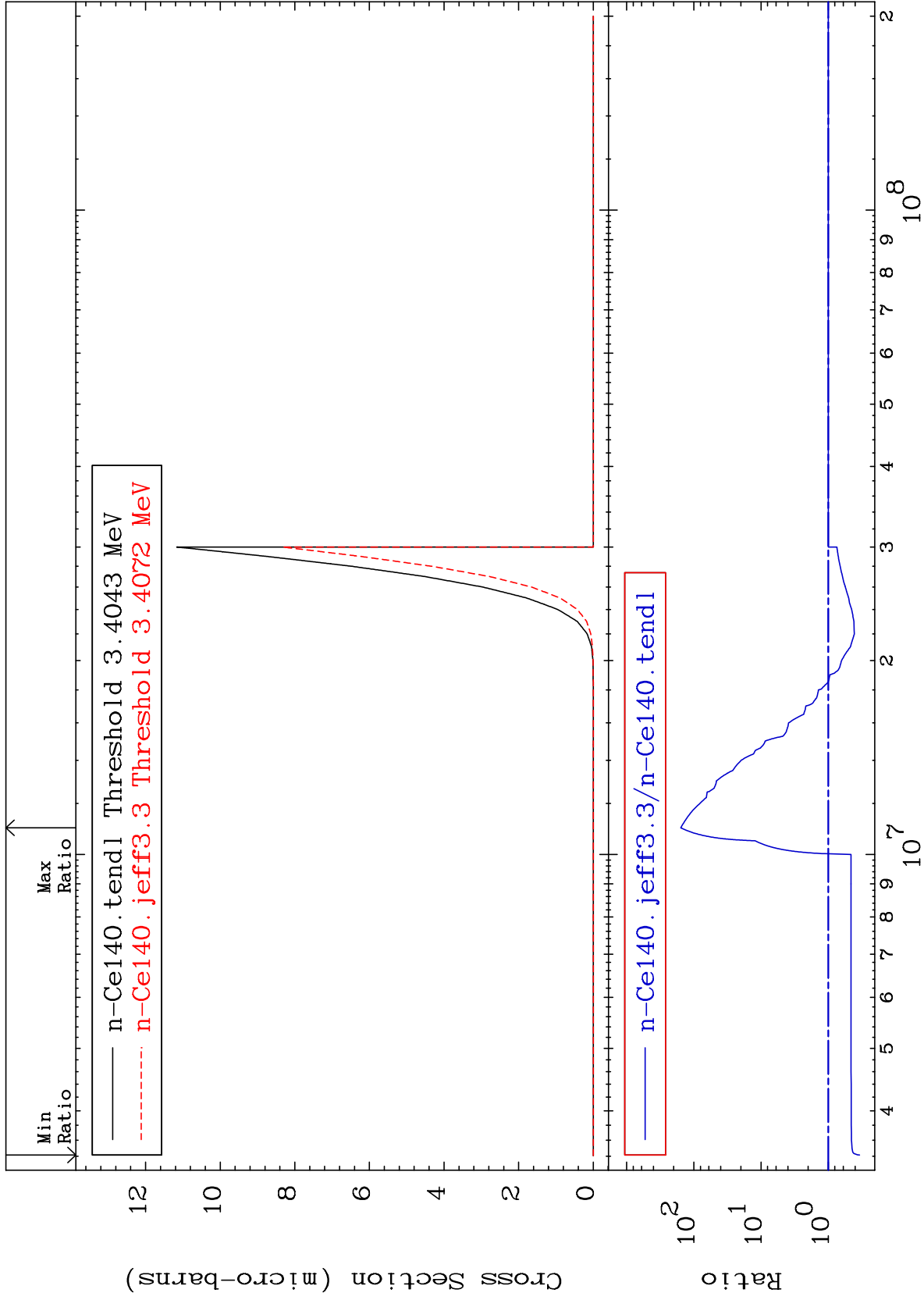
MAT 5837

(n, p) α

58-Ce-140

Cross Section

-65.68 To 9999. %



60

Incident Energy (eV)

58-Ce-140

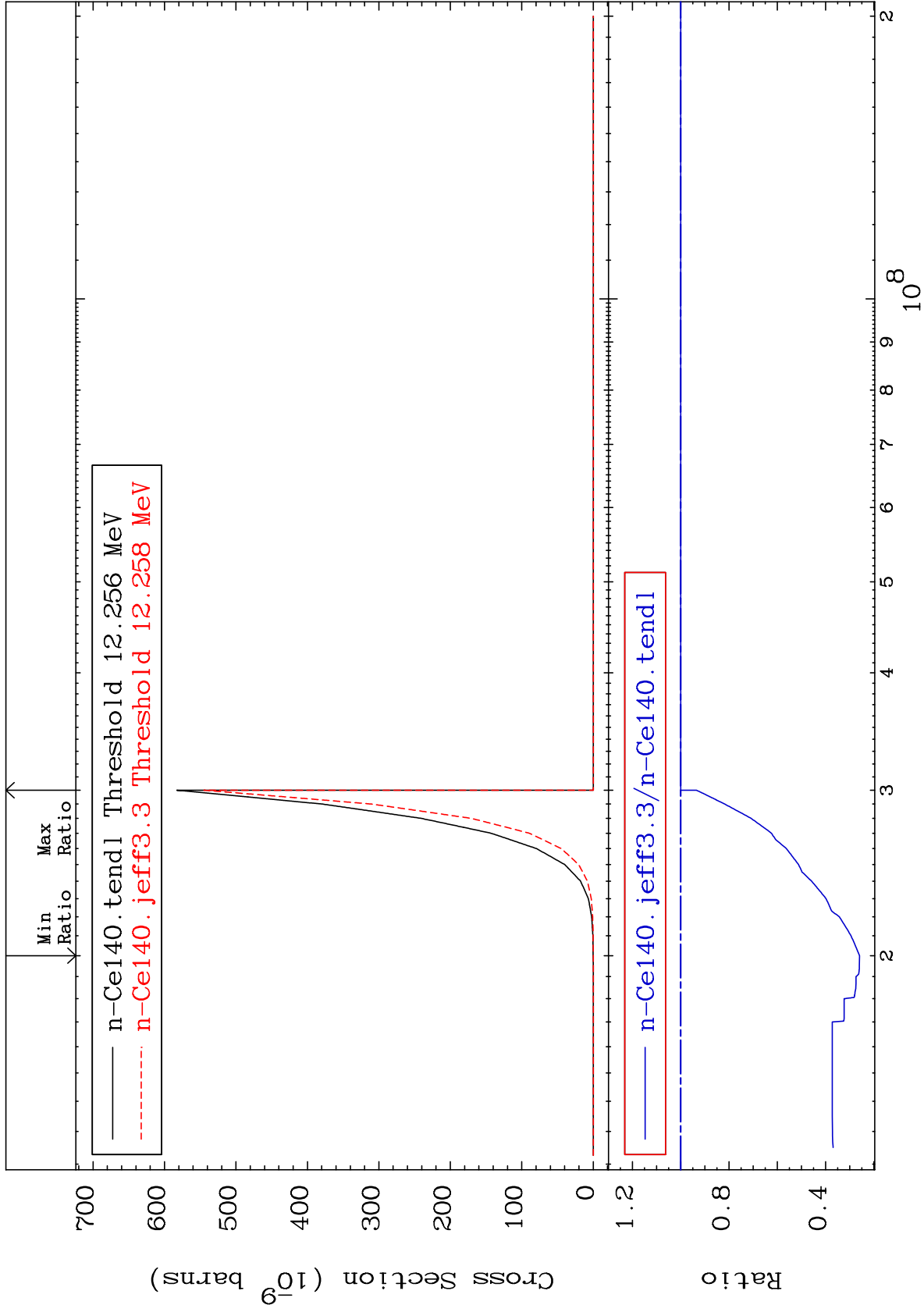
MAT 5837

(n, p) d

58-Ce-140

Cross Section

-74.04 To 0.000 %



61

Incident Energy (eV)

58-Ce-140

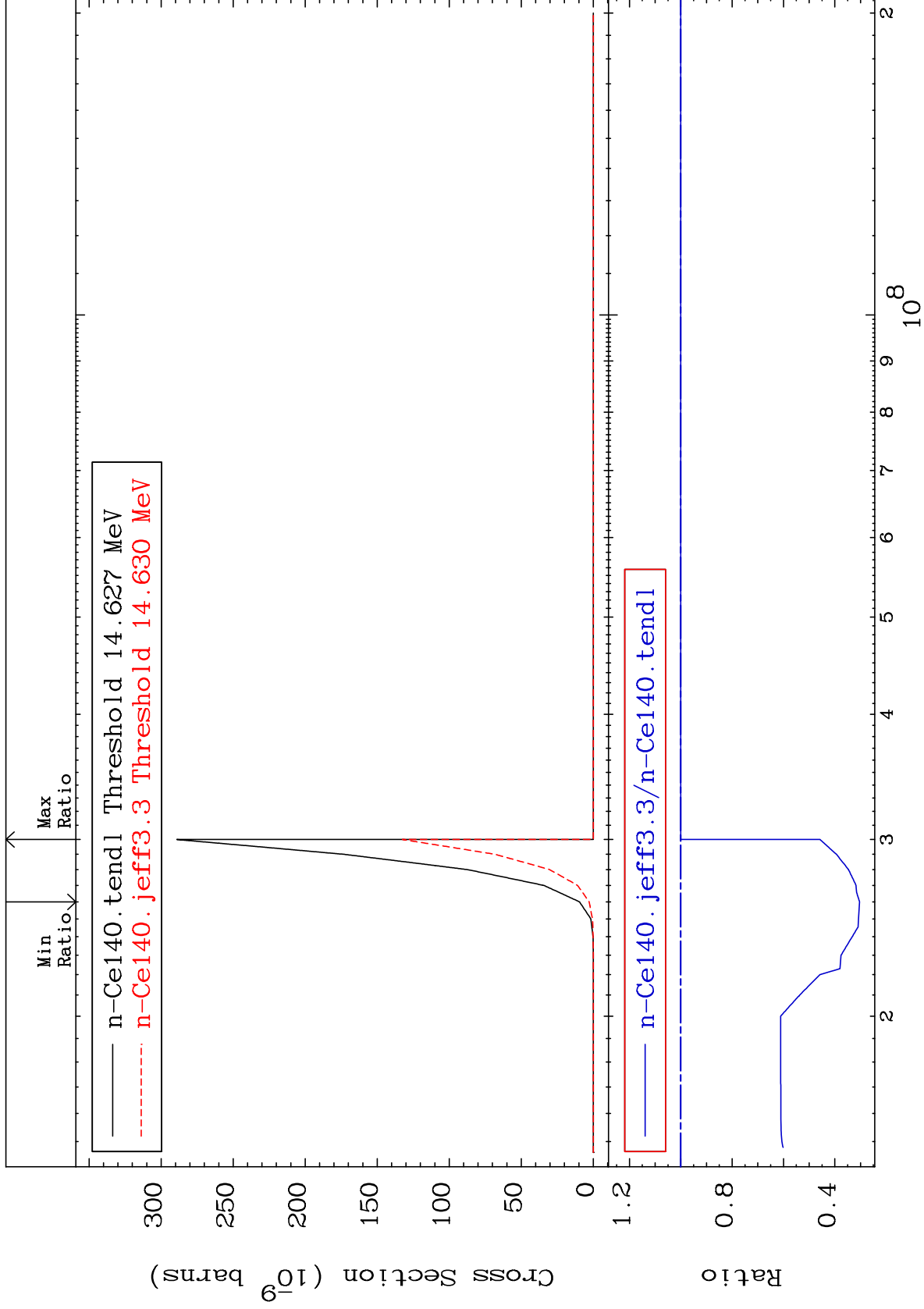
MAT 5837

(n, p) t

58-Ce-140

Cross Section

-69.62 To 0.000 %



62

Incident Energy (eV)

58-Ce-140

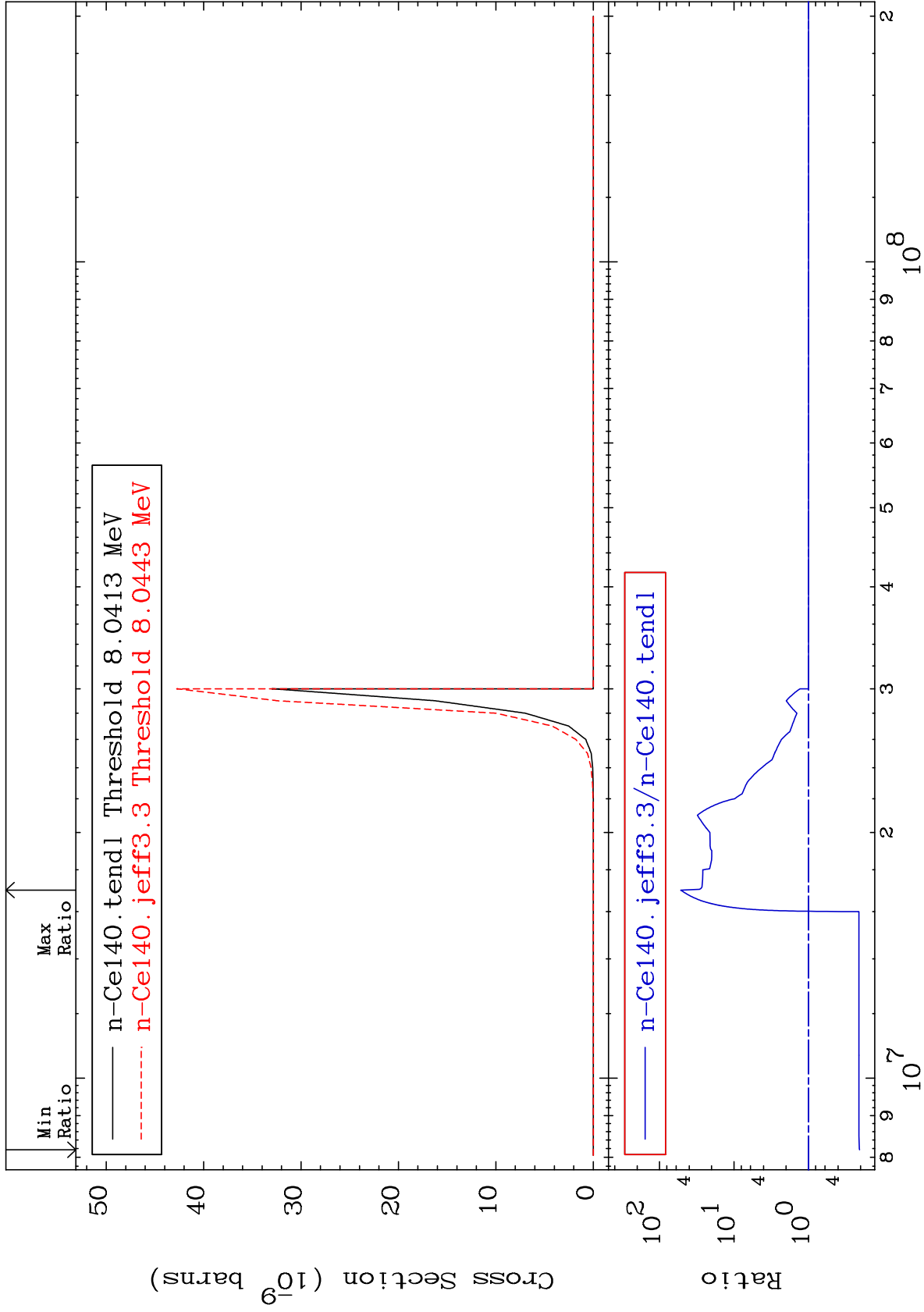
MAT 5837

(n, d) α

58-Ce-140

Cross Section

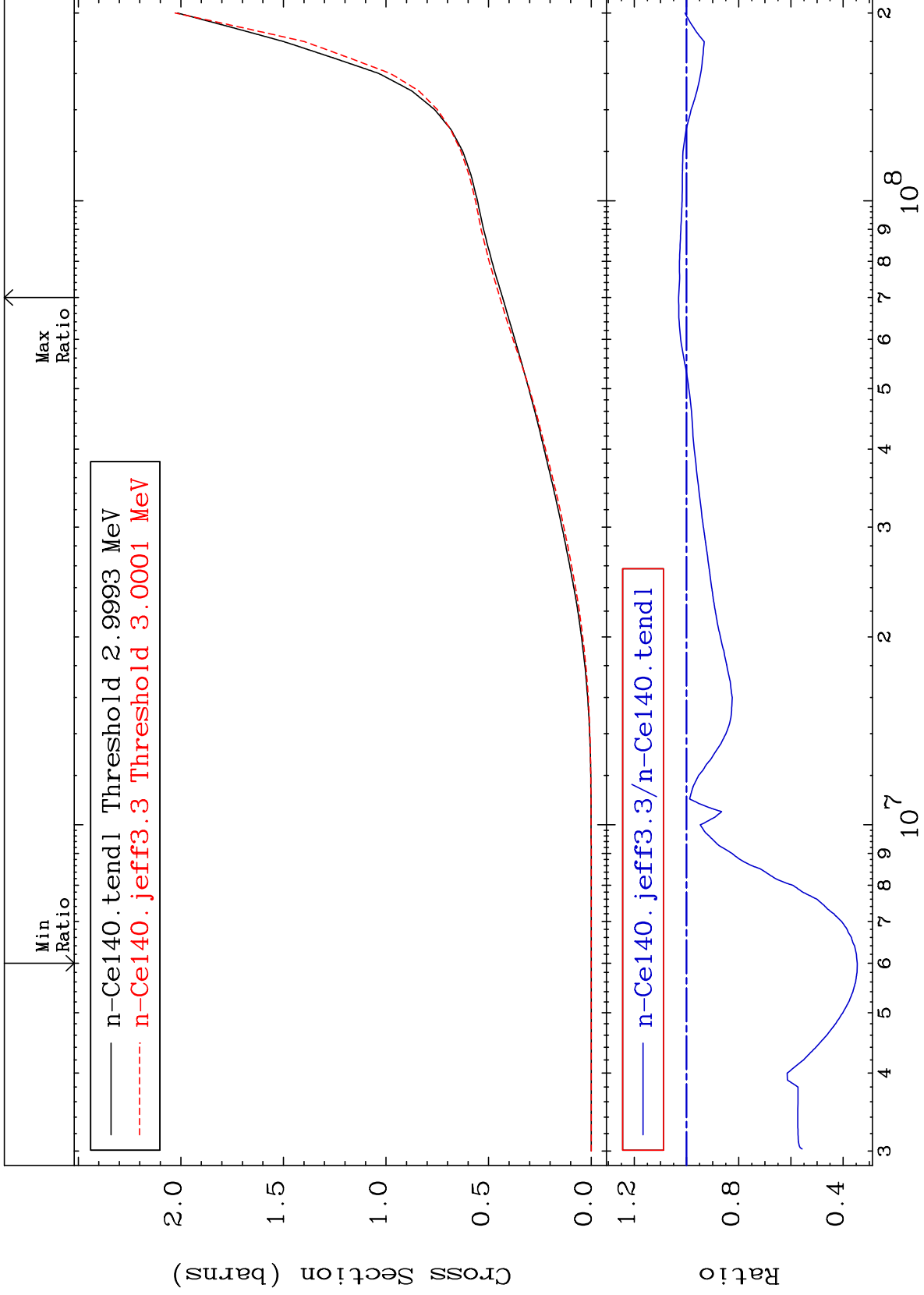
-79.38 To 5093. %



MAT 5837

Hydrogen Production Cross Section

58-Ce-140
-65.40 To 3.040 %



64

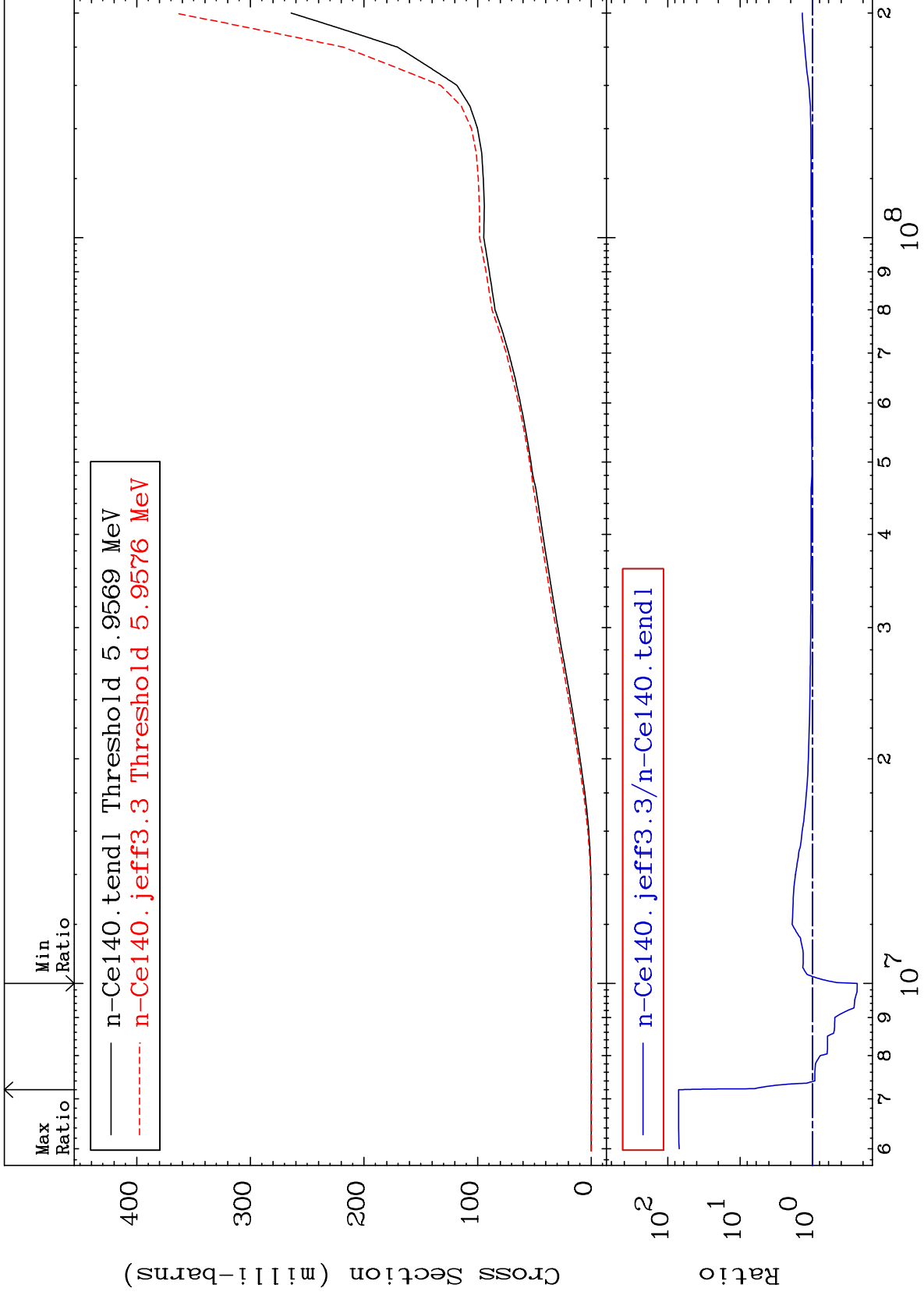
Incident Energy (eV)

58-Ce-140

MAT 5837

Deuterium Production
Cross Section

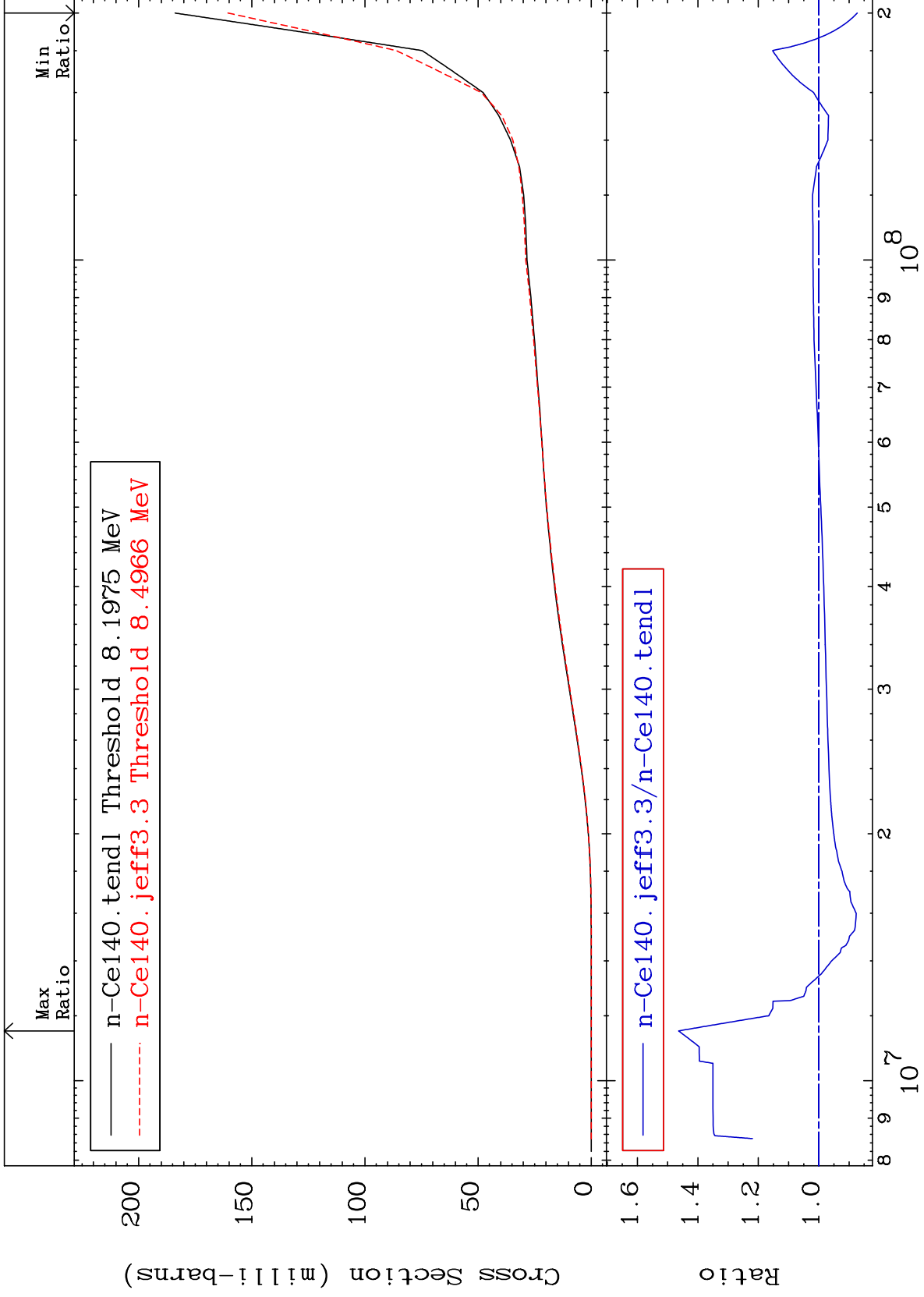
58-Ce-140
-75.92 To 6983. %



MAT 5837

Tritium Production
Cross Section

58-Ce-140
-12.72 To 46.37 %

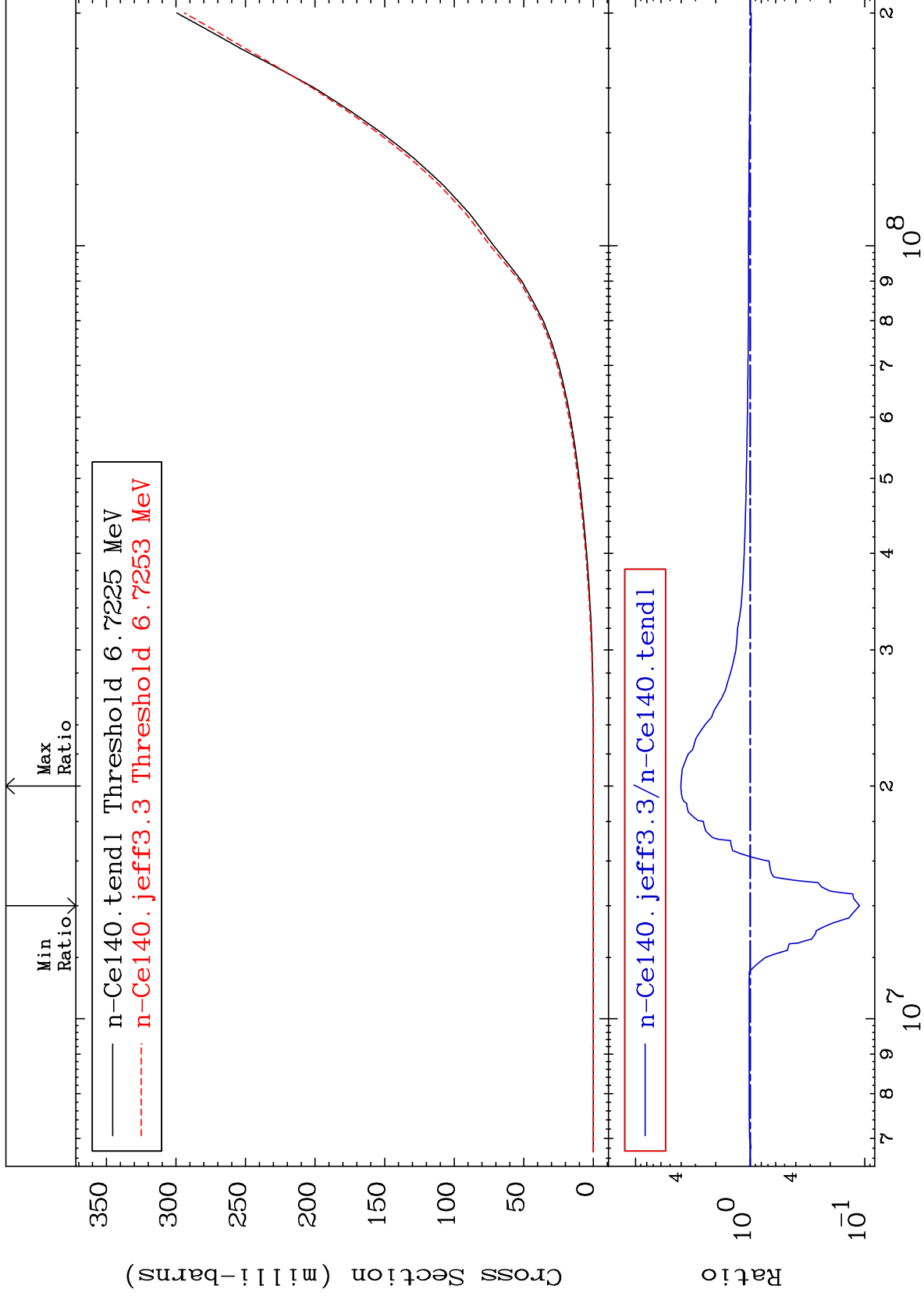


66

MAT 5837

He-3 Production
Cross Section

58-Ce-140
-88.89 To 303.4 %



67

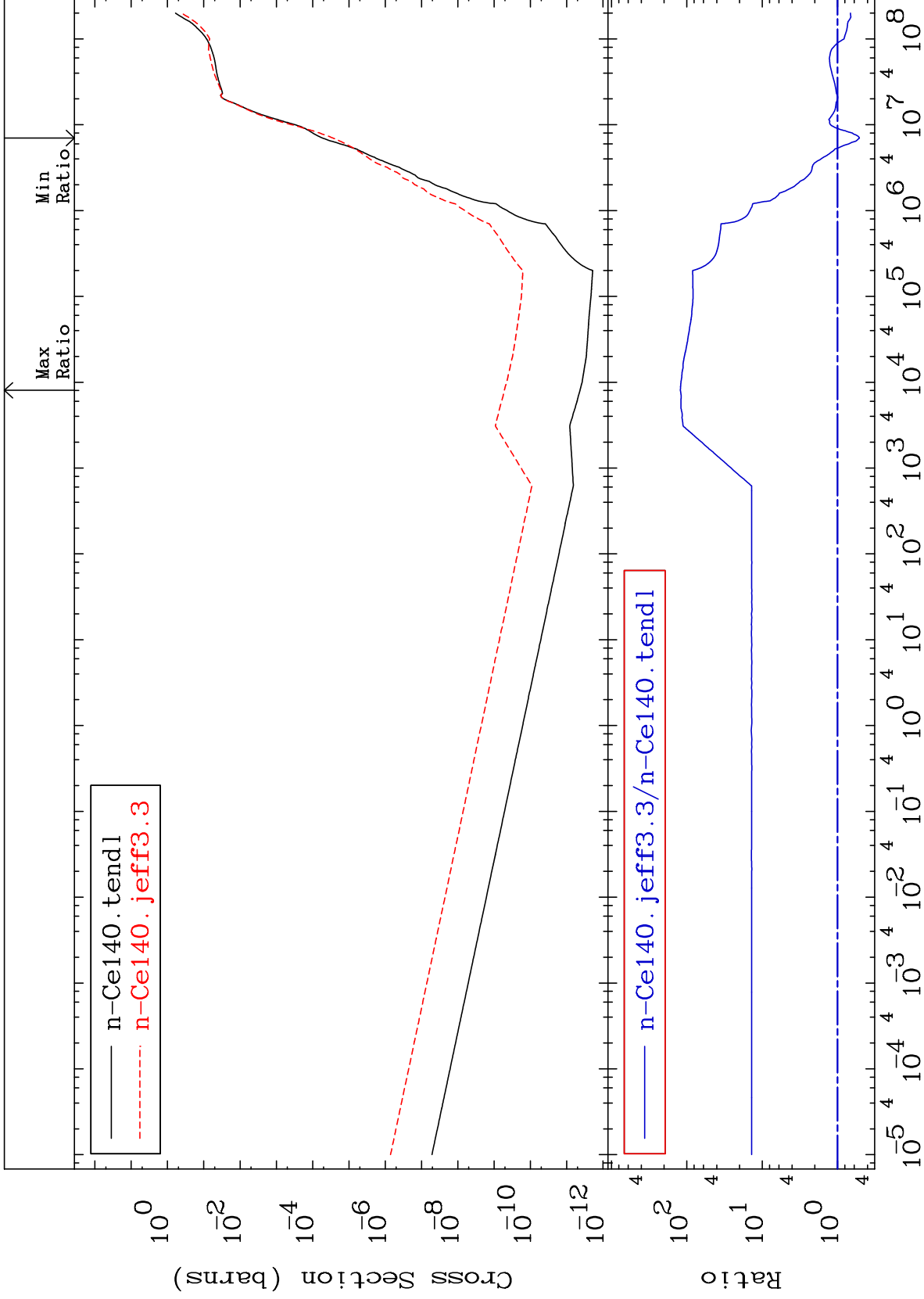
Incident Energy (eV)

58-Ce-140

MAT 5837

He-4 Production
Cross Section

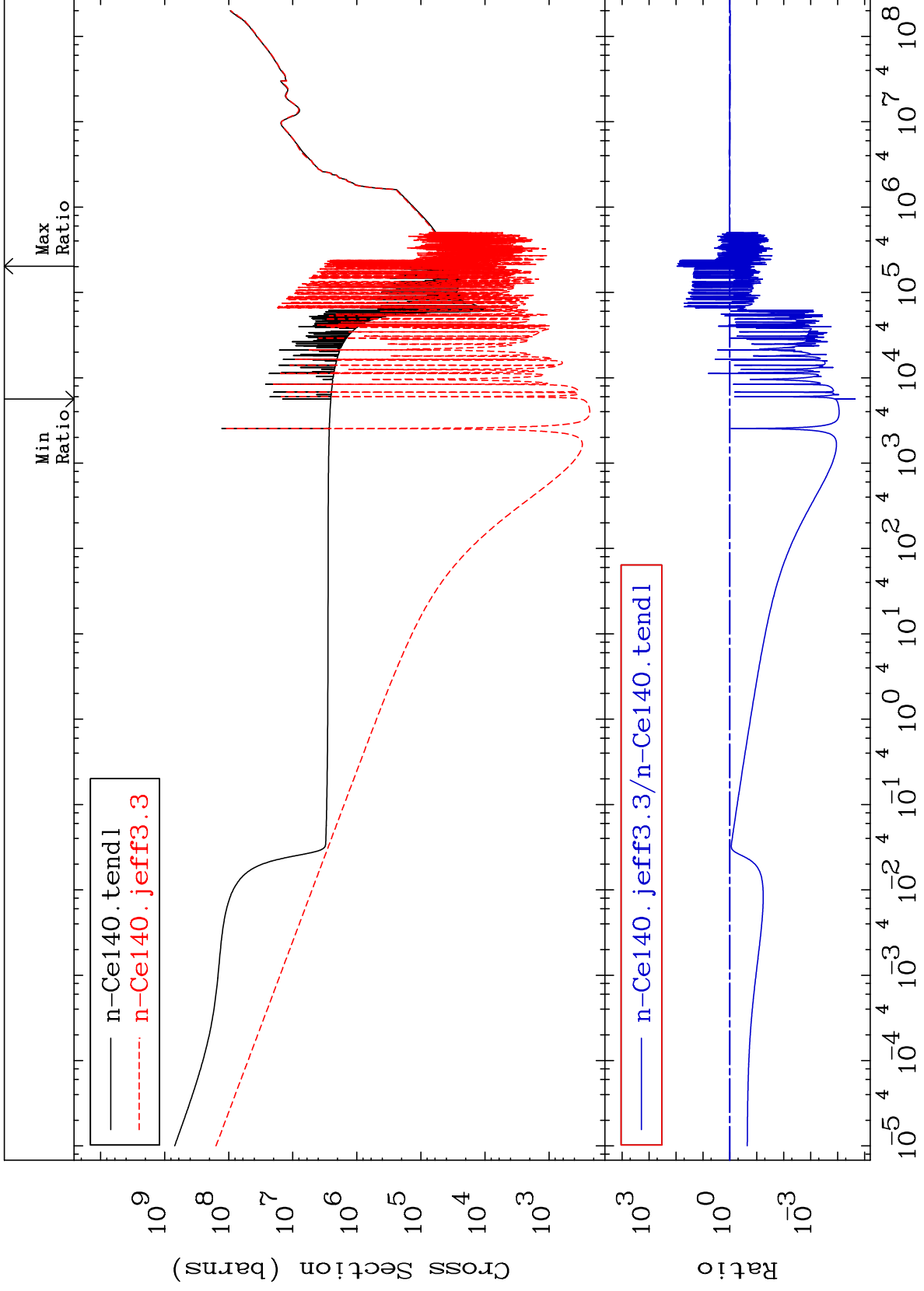
58-Ce-140
-48.76 To 9999. %



MAT 5837

Kerma total (eV-barns)
Cross Section

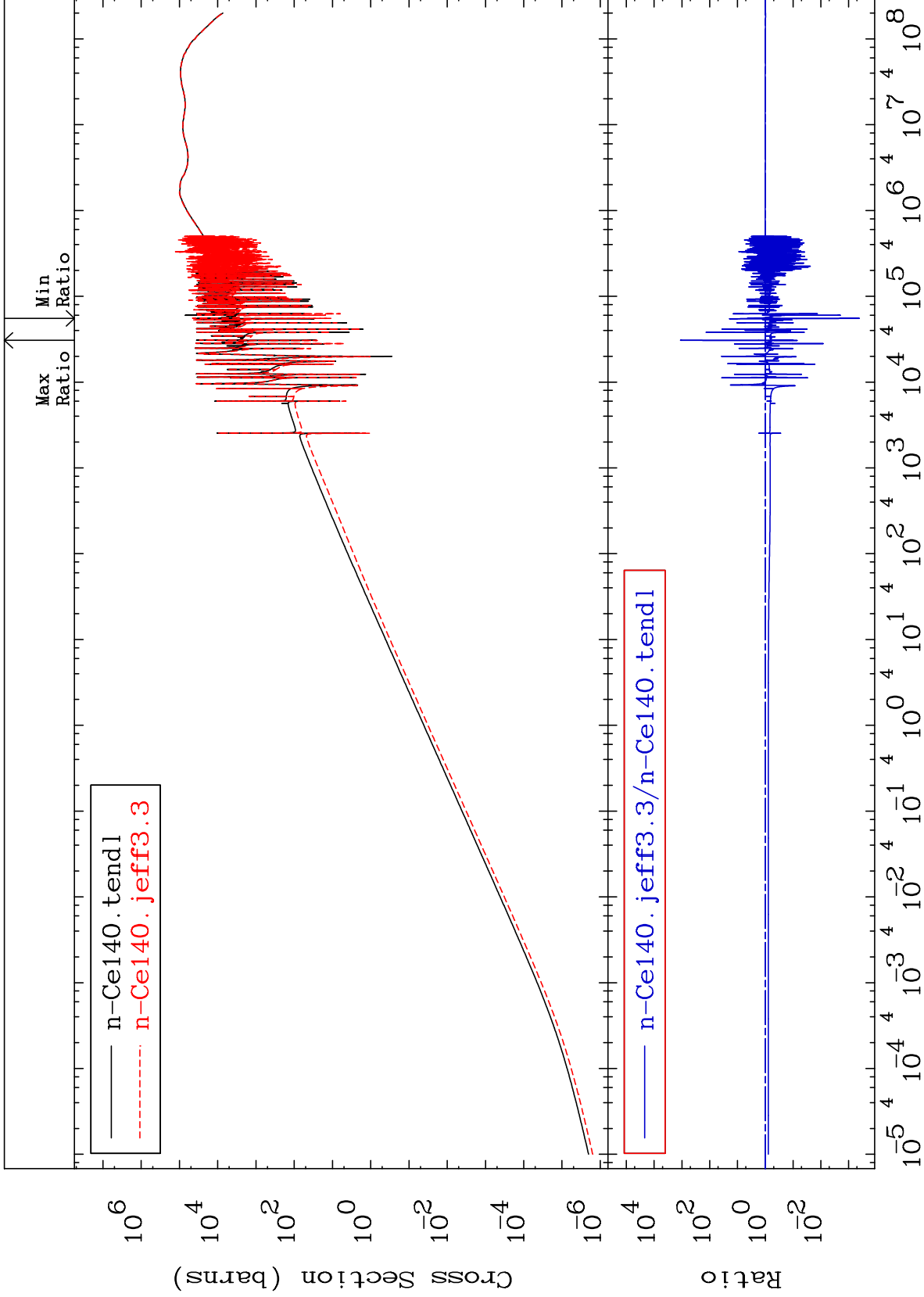
58-Ce-140
-100.0 To 9128. %



MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-99.96 To 9999. %



70

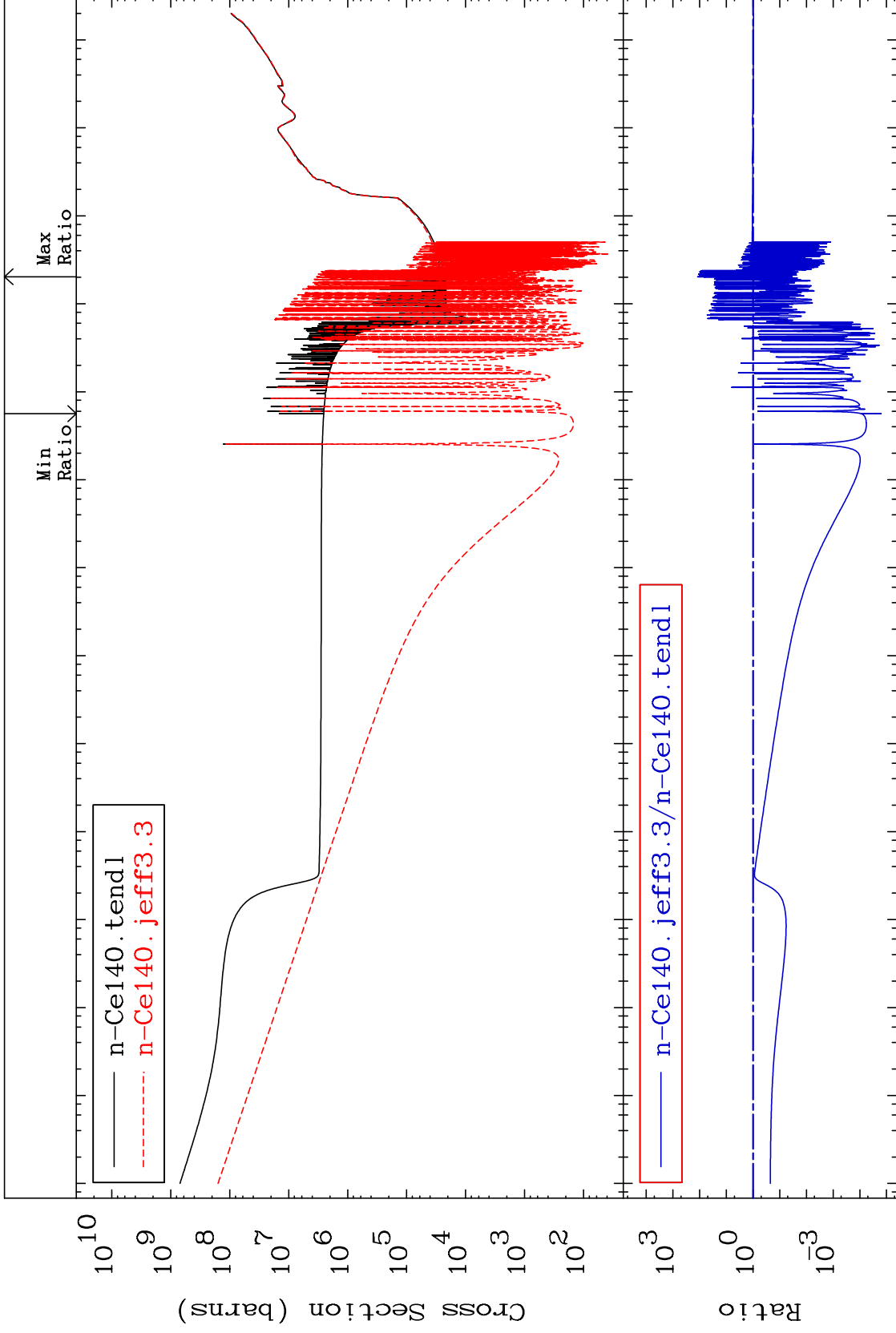
Incident Energy (eV)

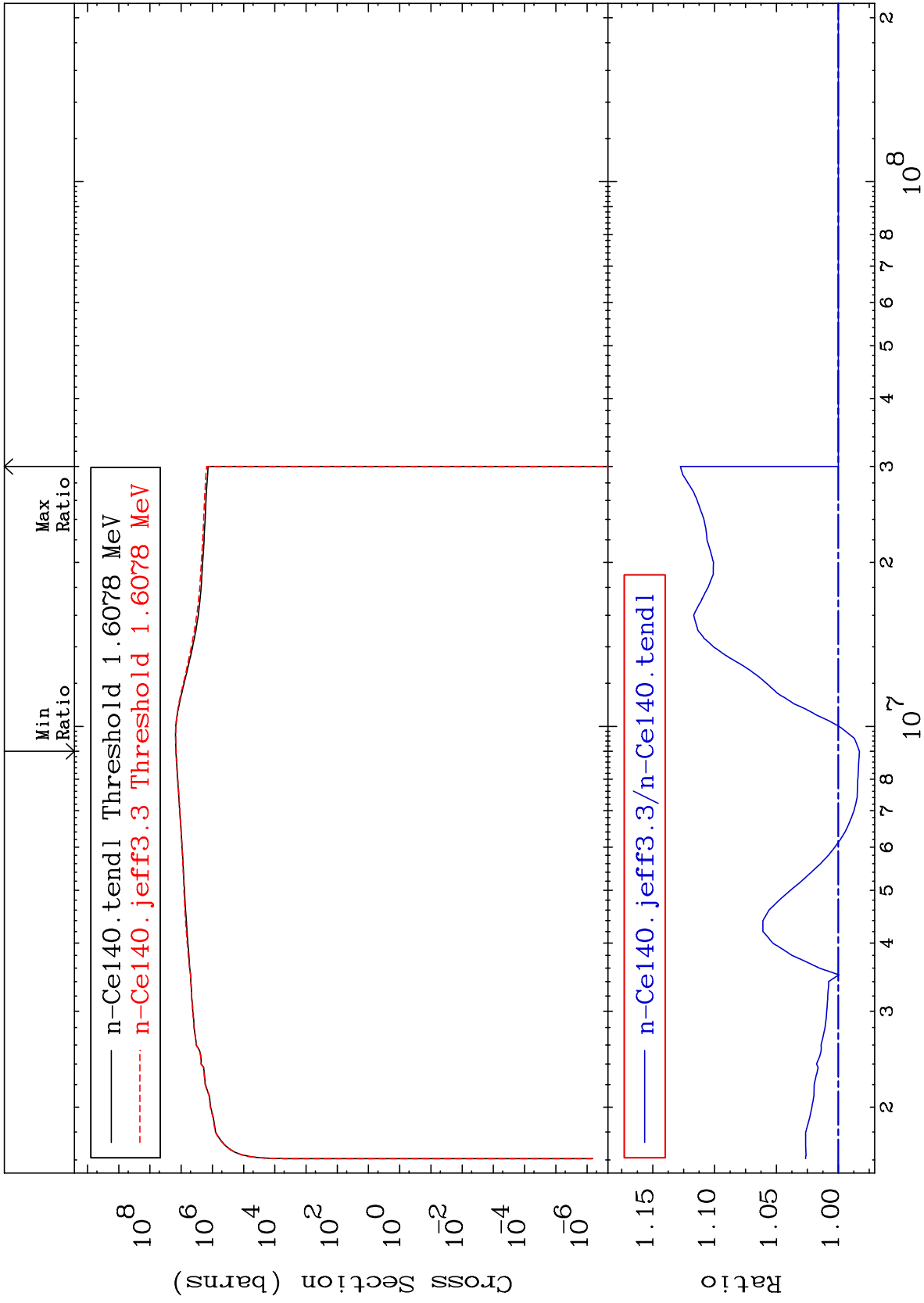
58-Ce-140

MAT 5837

Kerma non-elastic (all but mt2)
Cross Section

58-Ce-140
-100.0 To 9999. %

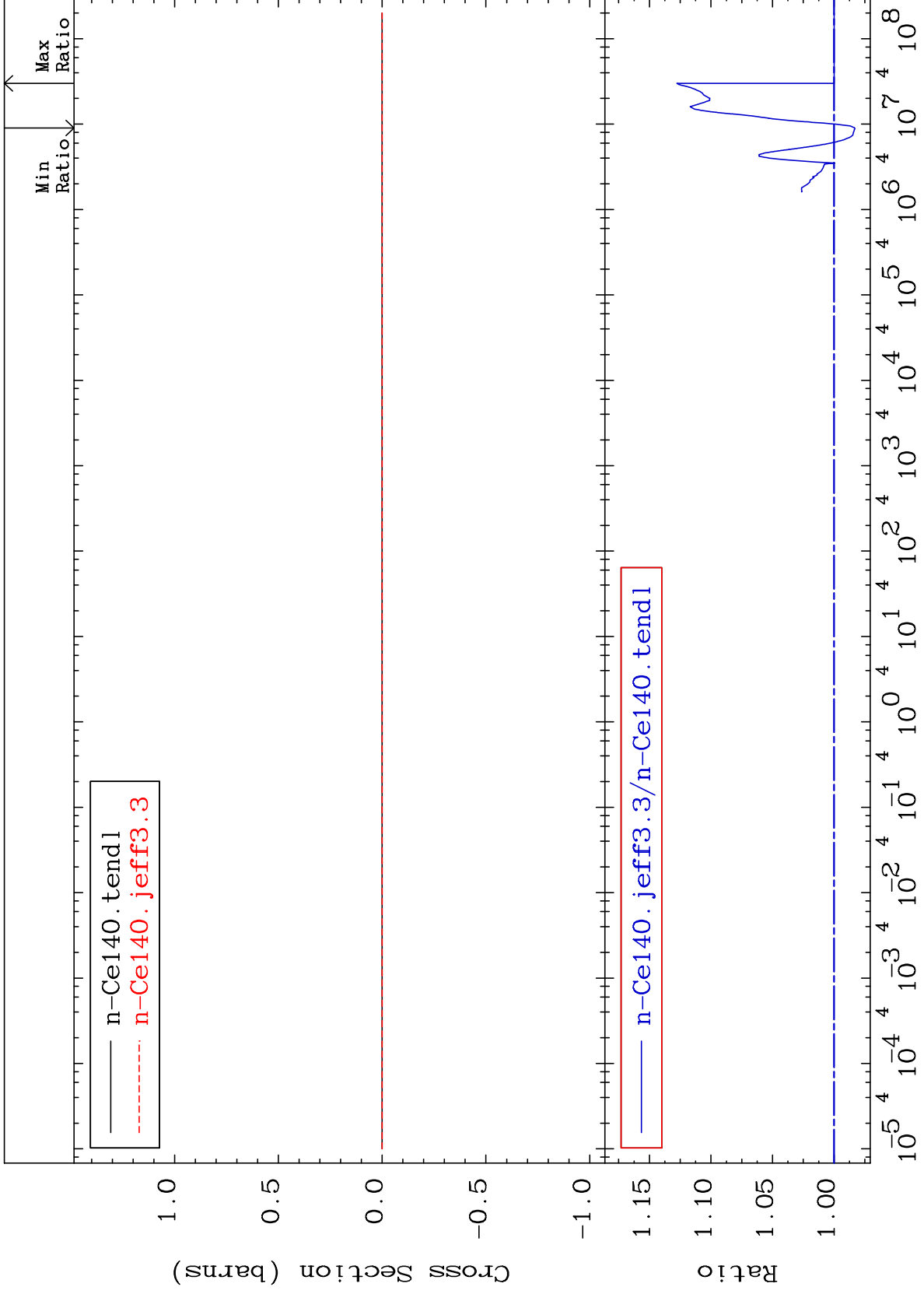




MAT 5837

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

58-Ce-140
-1.706 To 12.77 %



73

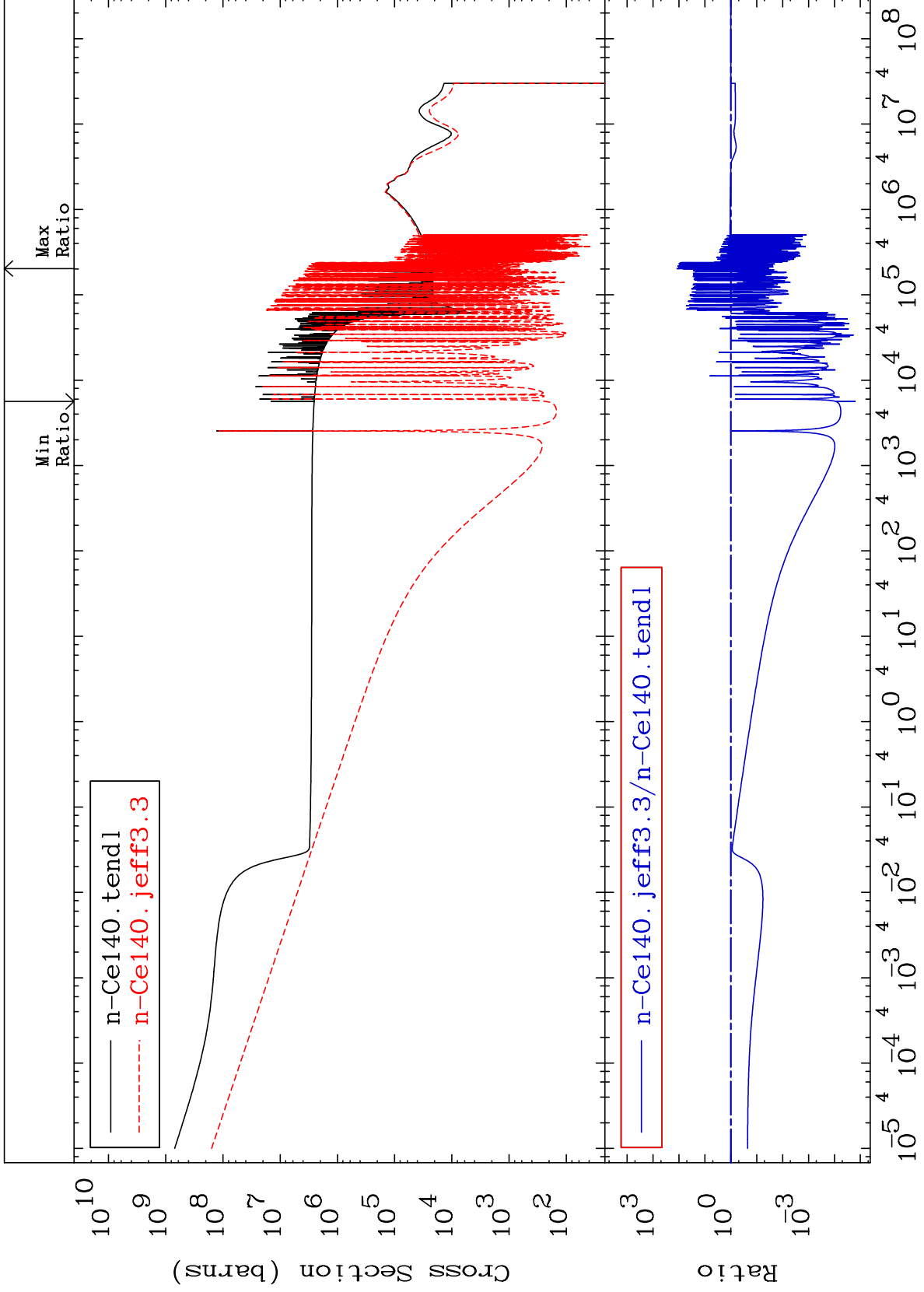
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma capture (mt102)
Cross Section

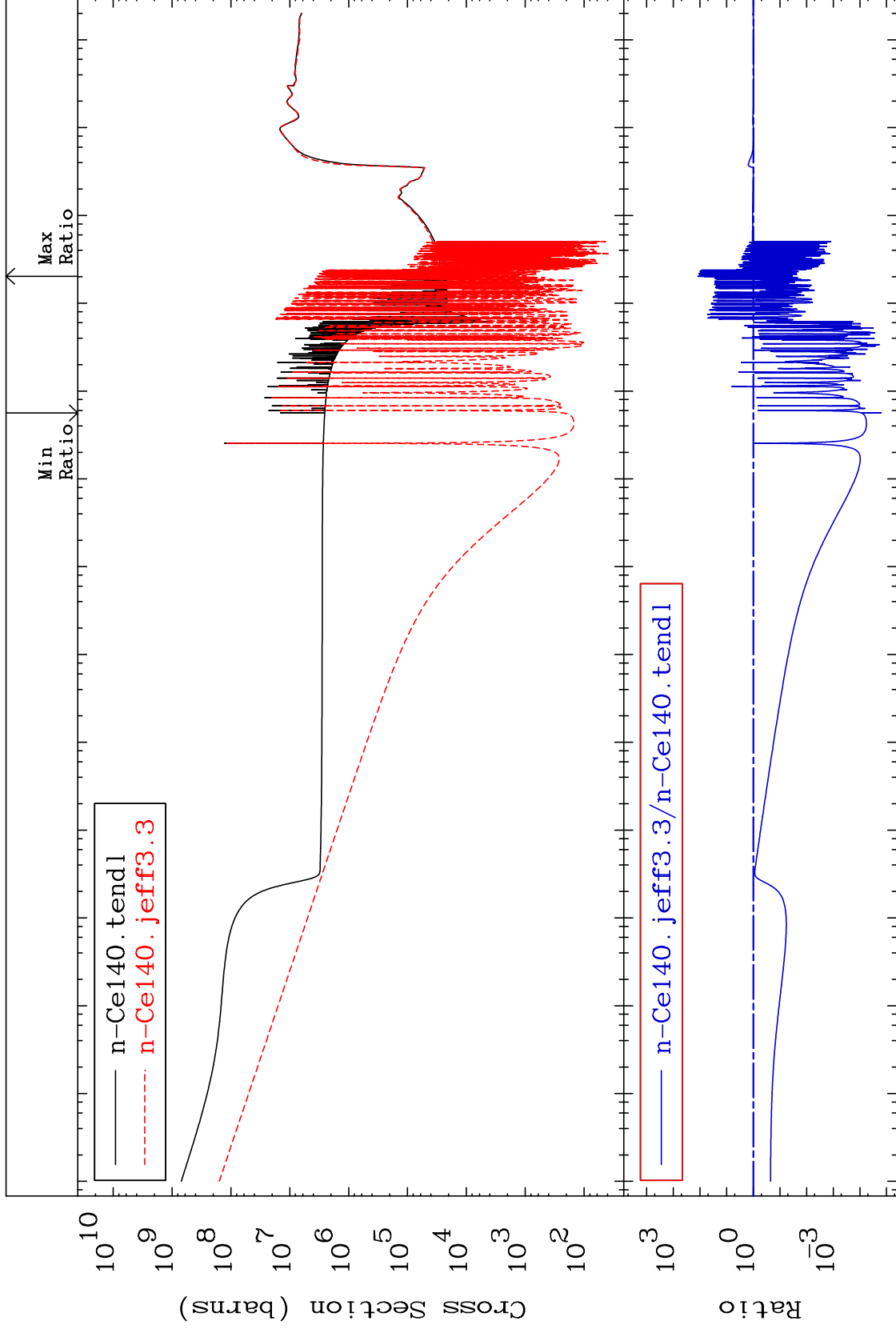
58-Ce-140
-100.0 To 9999. %



MAT 5837

Total photon (eV-barns)
Cross Section

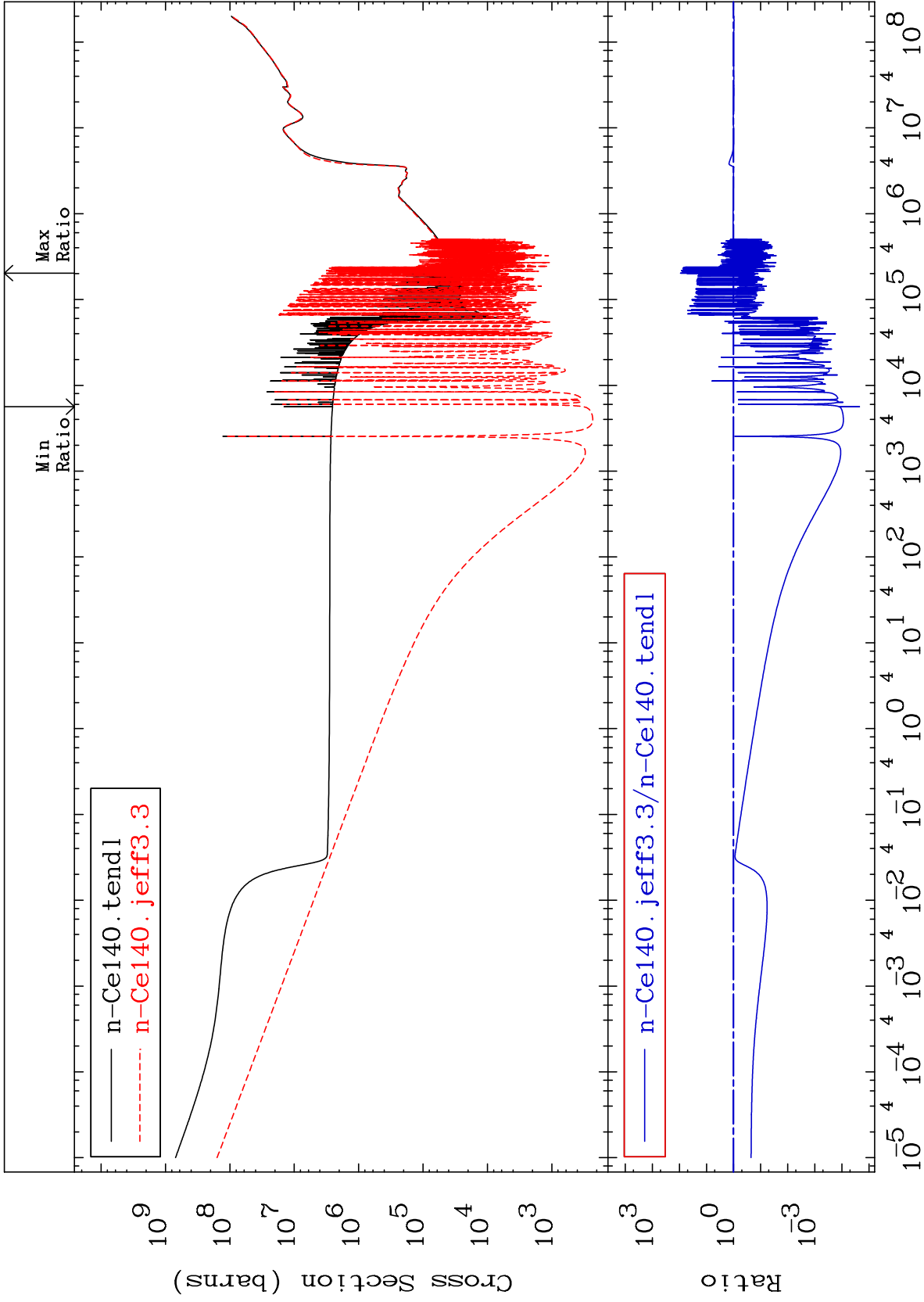
58-Ce-140
-100.0 To 9999. %



75

Incident Energy (eV)

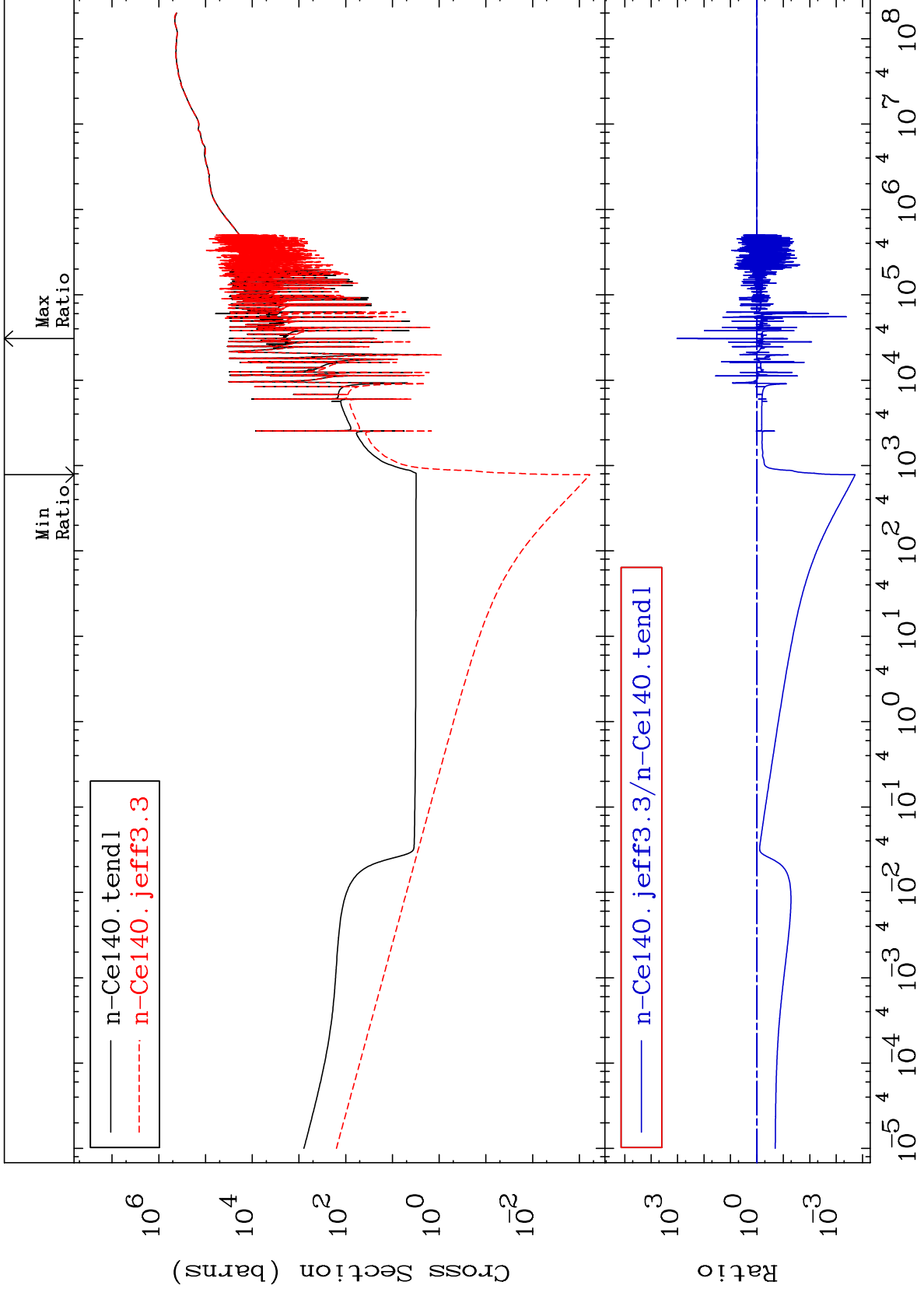
58-Ce-140



MAT 5837

Dpa total (eV-barns)
Cross Section

58-Ce-140
-99.98 To 9999. %



77

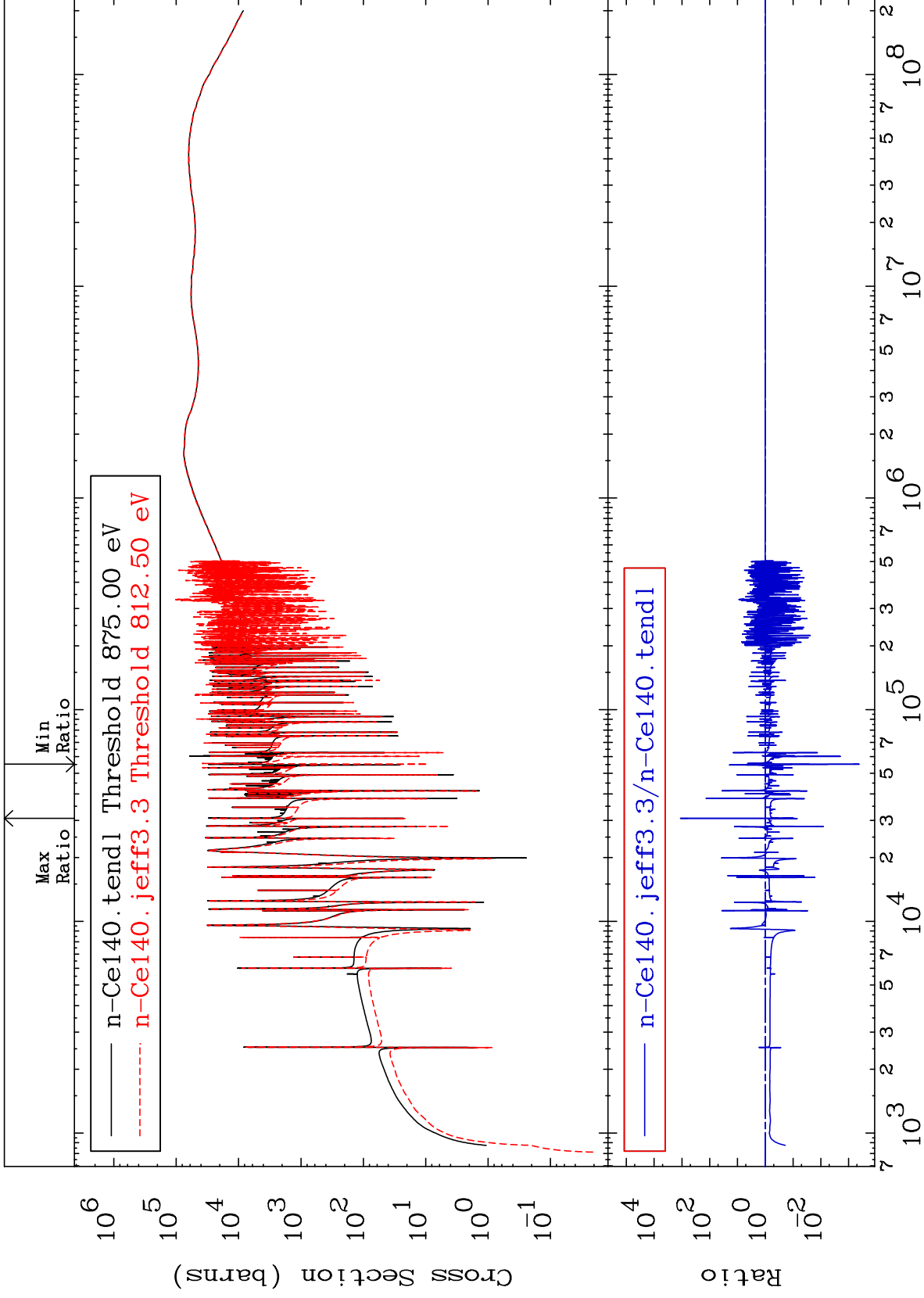
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa elastic (mt2)
Cross Section

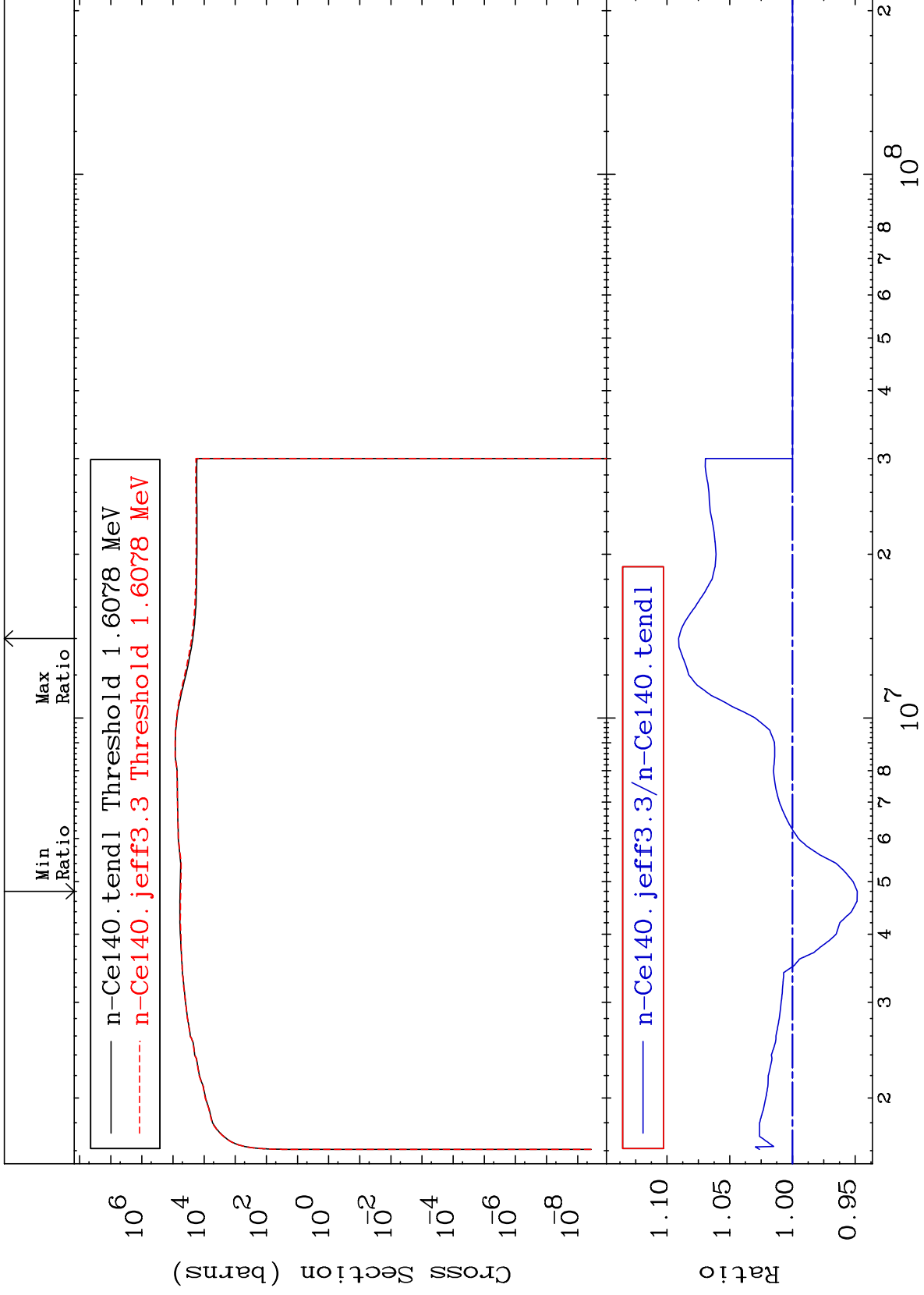
58-Ce-140
-99.96 To 9999. %



78

Incident Energy (eV)

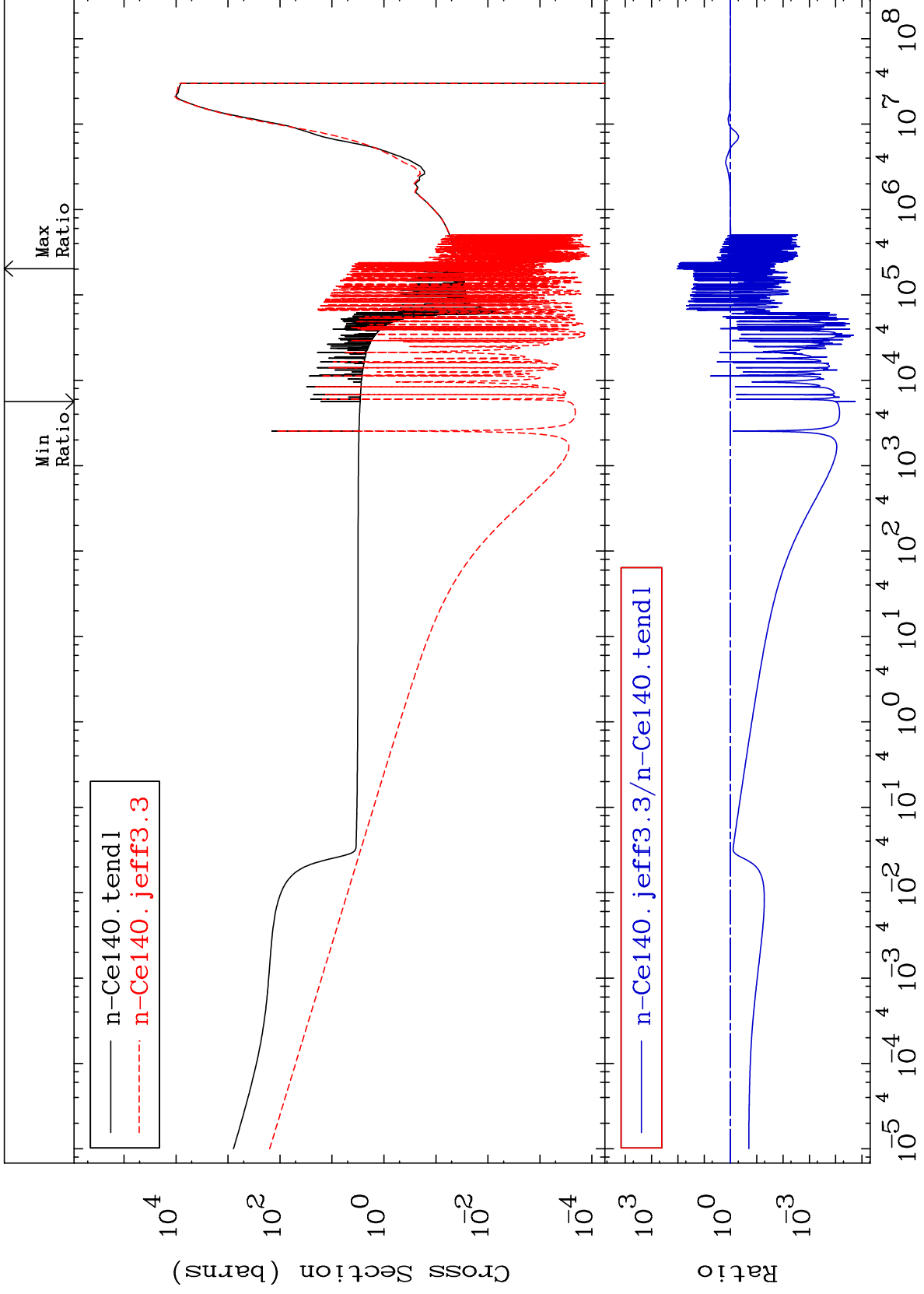
58-Ce-140



MAT 5837

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-140
-100.0 To 9999. %



80

Incident Energy (eV)

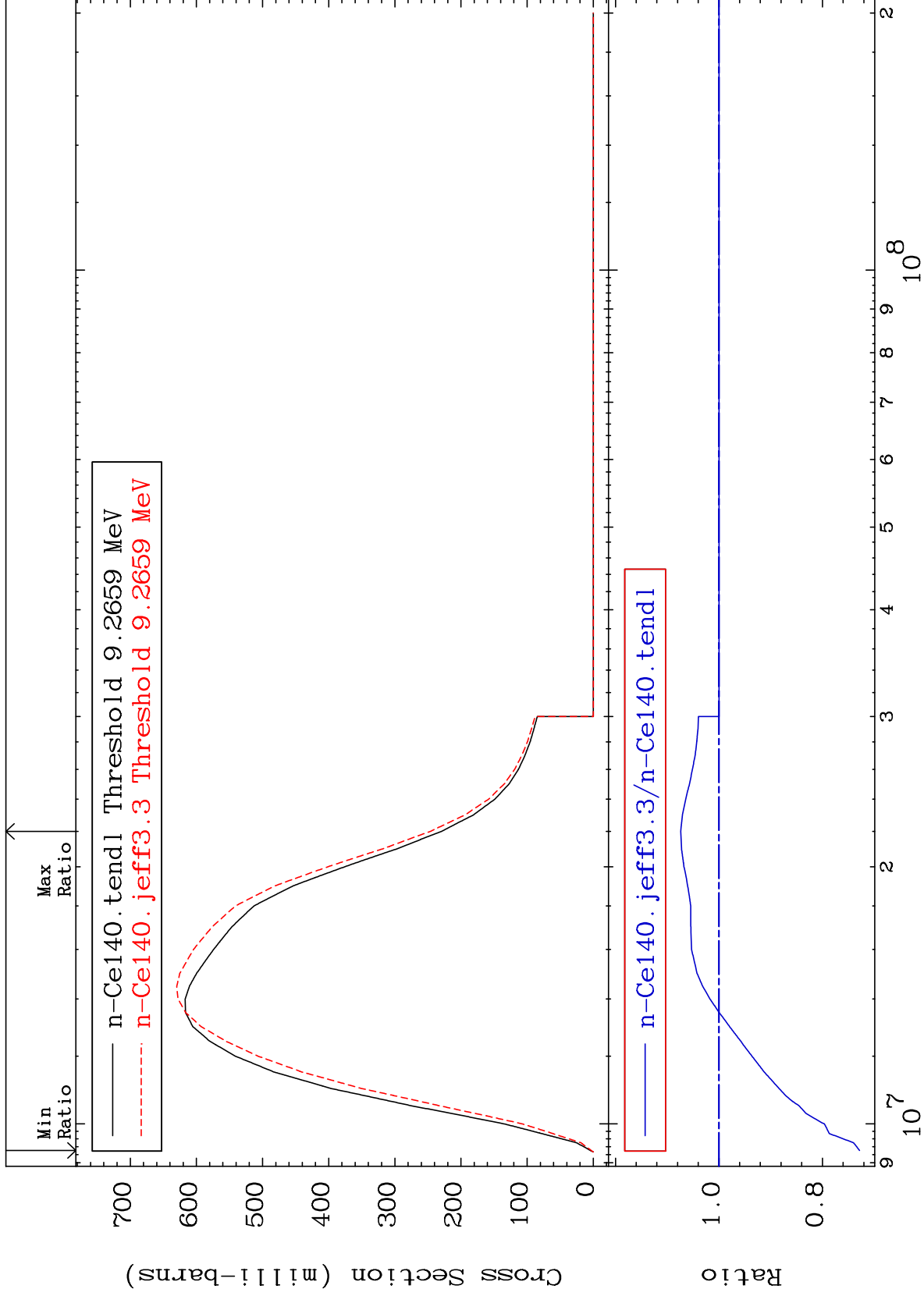
58-Ce-140

MAT 5837

(n,2n):58-Ce-139g

58-Ce-140

Radionuclide Production Cross Section -27.17 To 7.380 %



81

Incident Energy (eV)

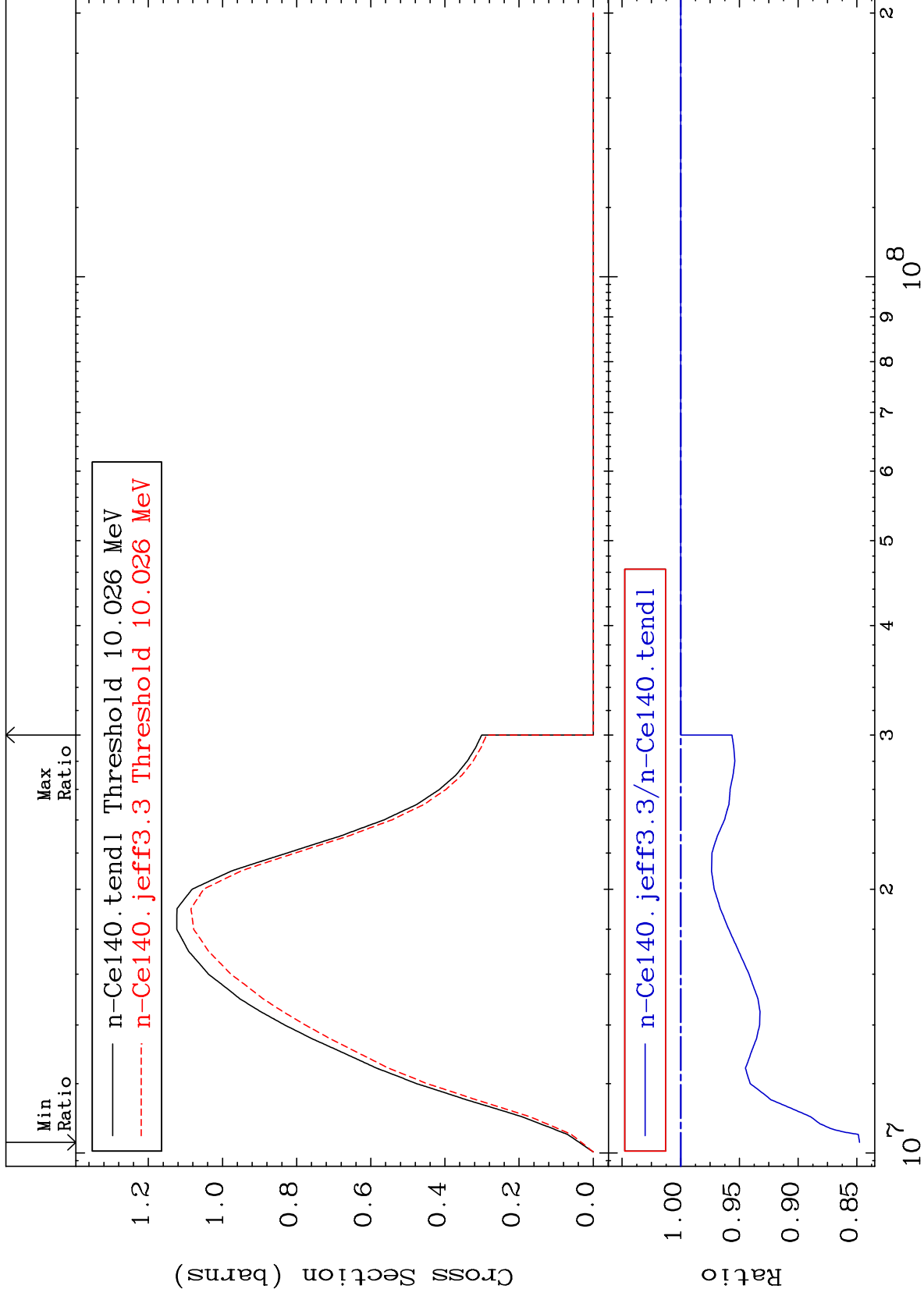
58-Ce-140

MAT 5837

(n,2n):58-Ce-139m2

58-Ce-140

Radionuclide Production Cross Section -15.22 To 0.000 %

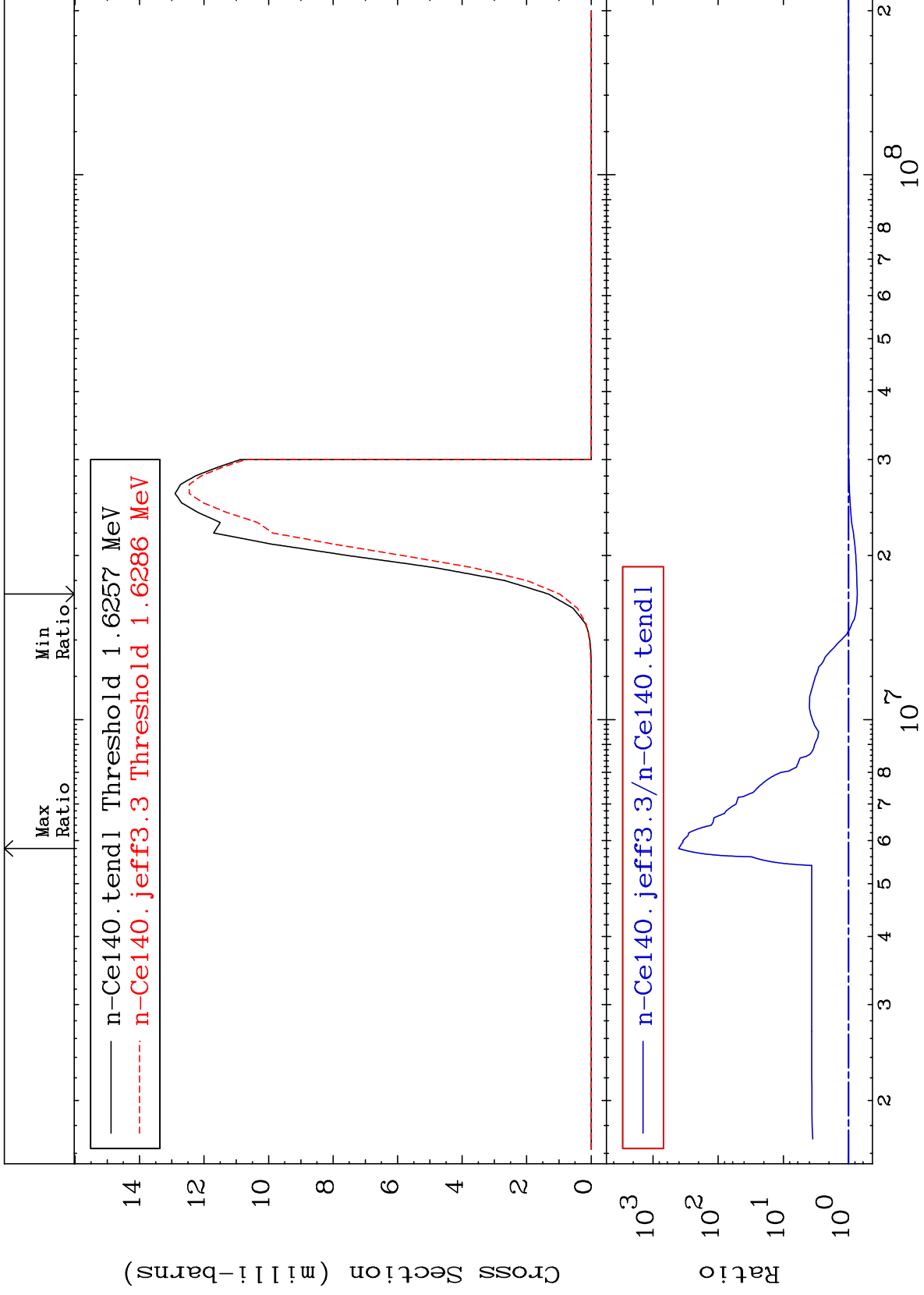


MAT 5837

(n, n') α :56-Ba-136g

58-Ce-140

Radionuclide Production Cross Section -26.28 To 9999. %

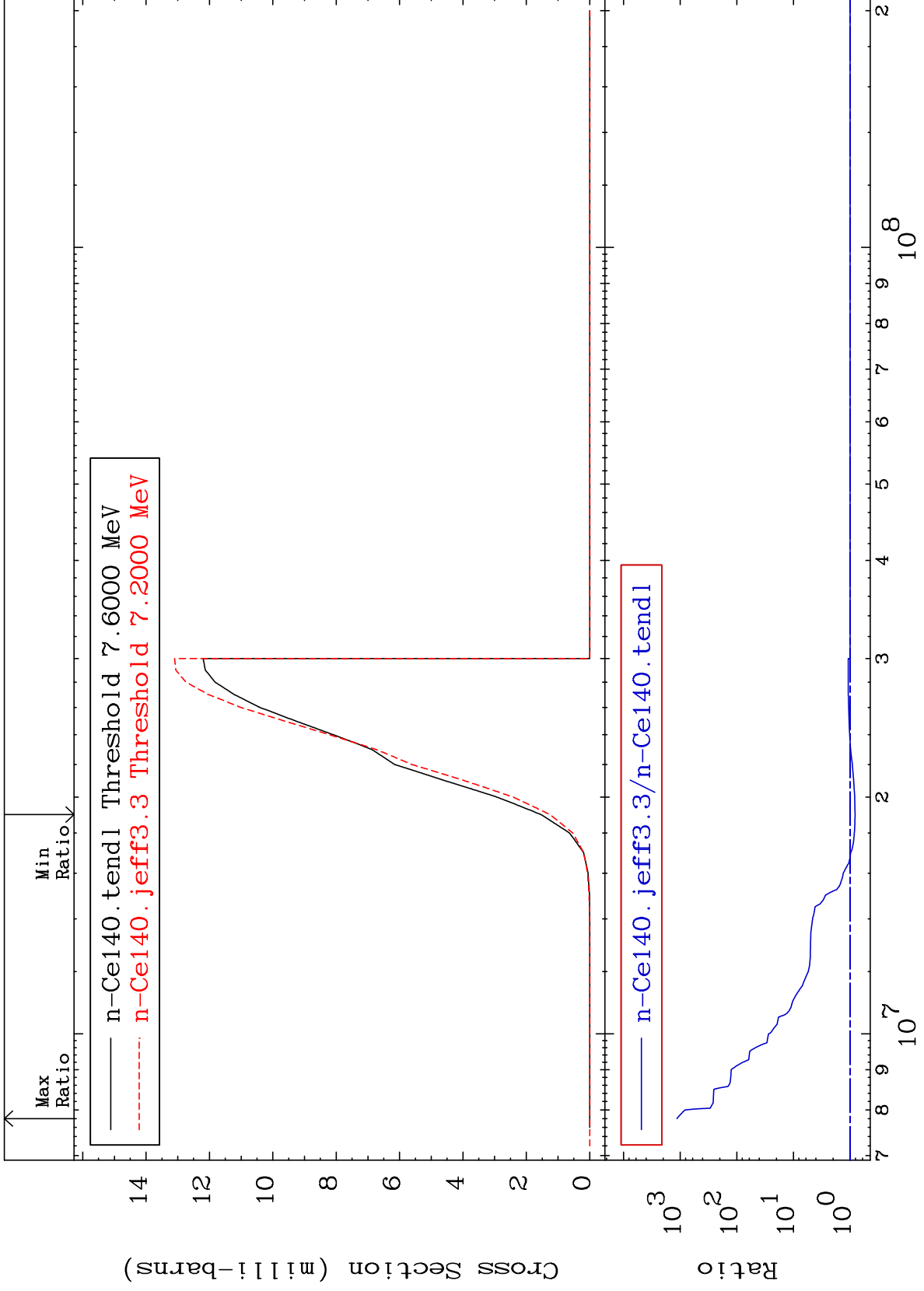


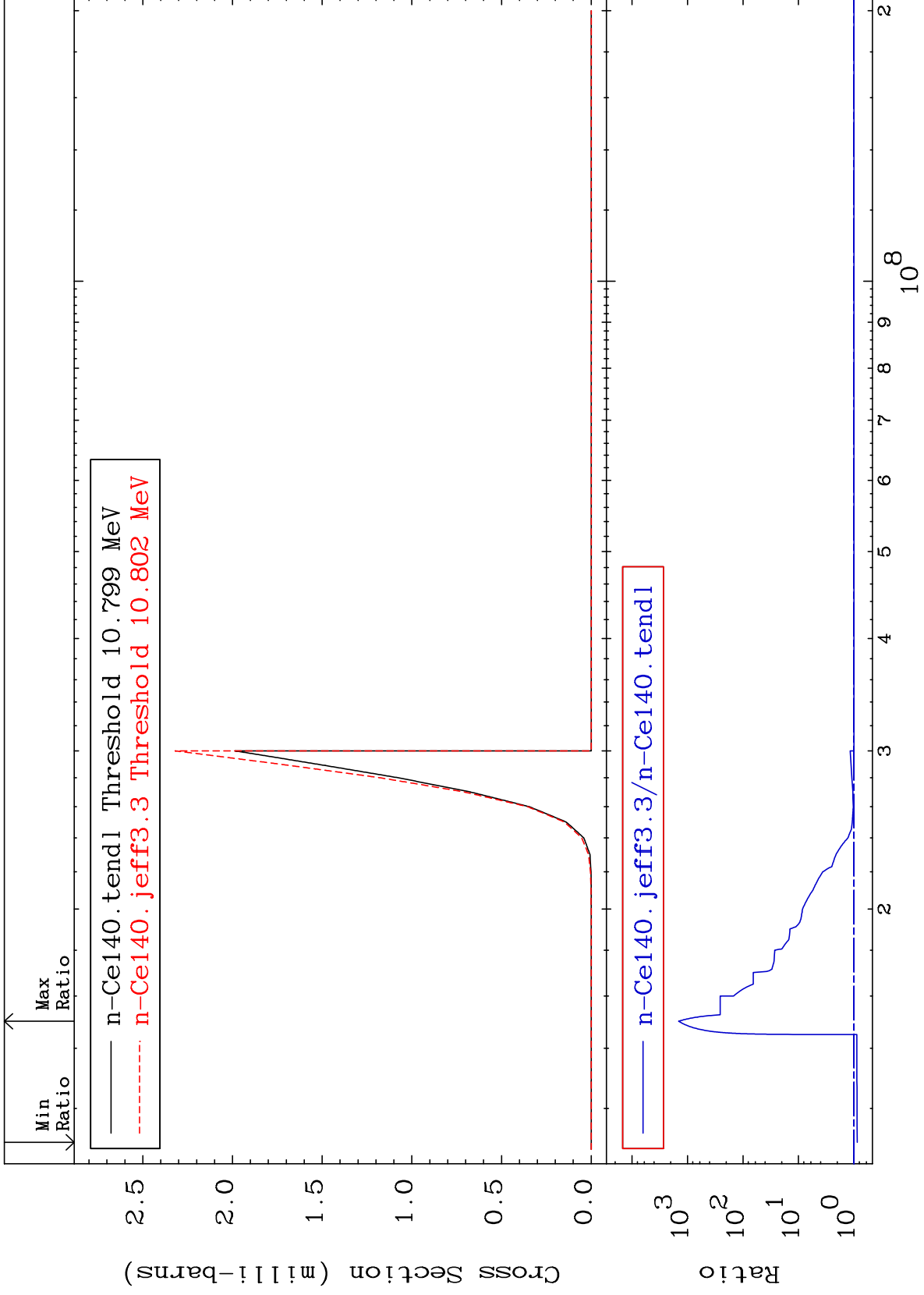
MAT 5837

(n, n') α :56-Ba-136m5

58-Ce-140

Radionuclide Production Cross Section -18.51 To 9999. %



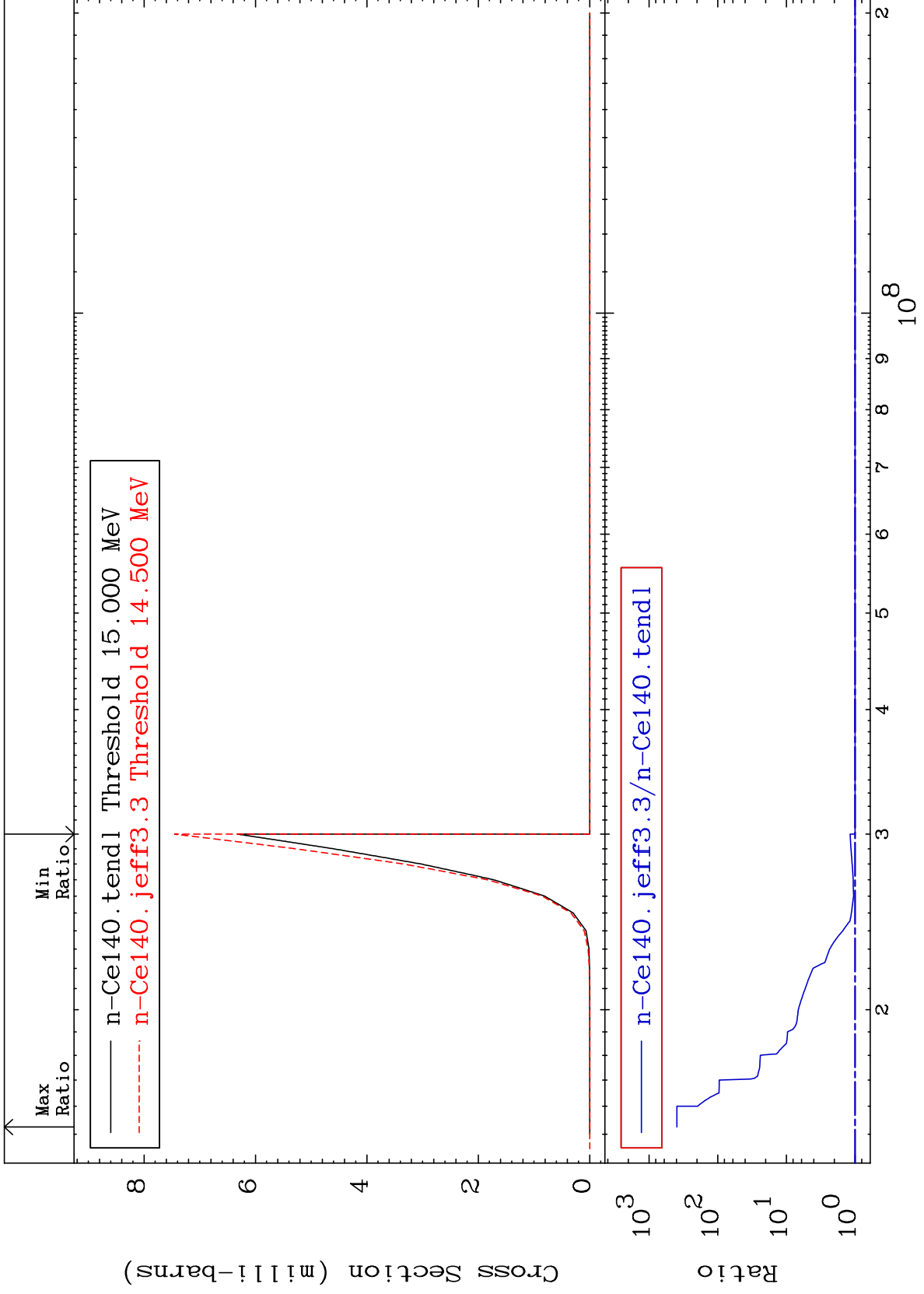


MAT 5837

(n,2n) α :56-Ba-135m2

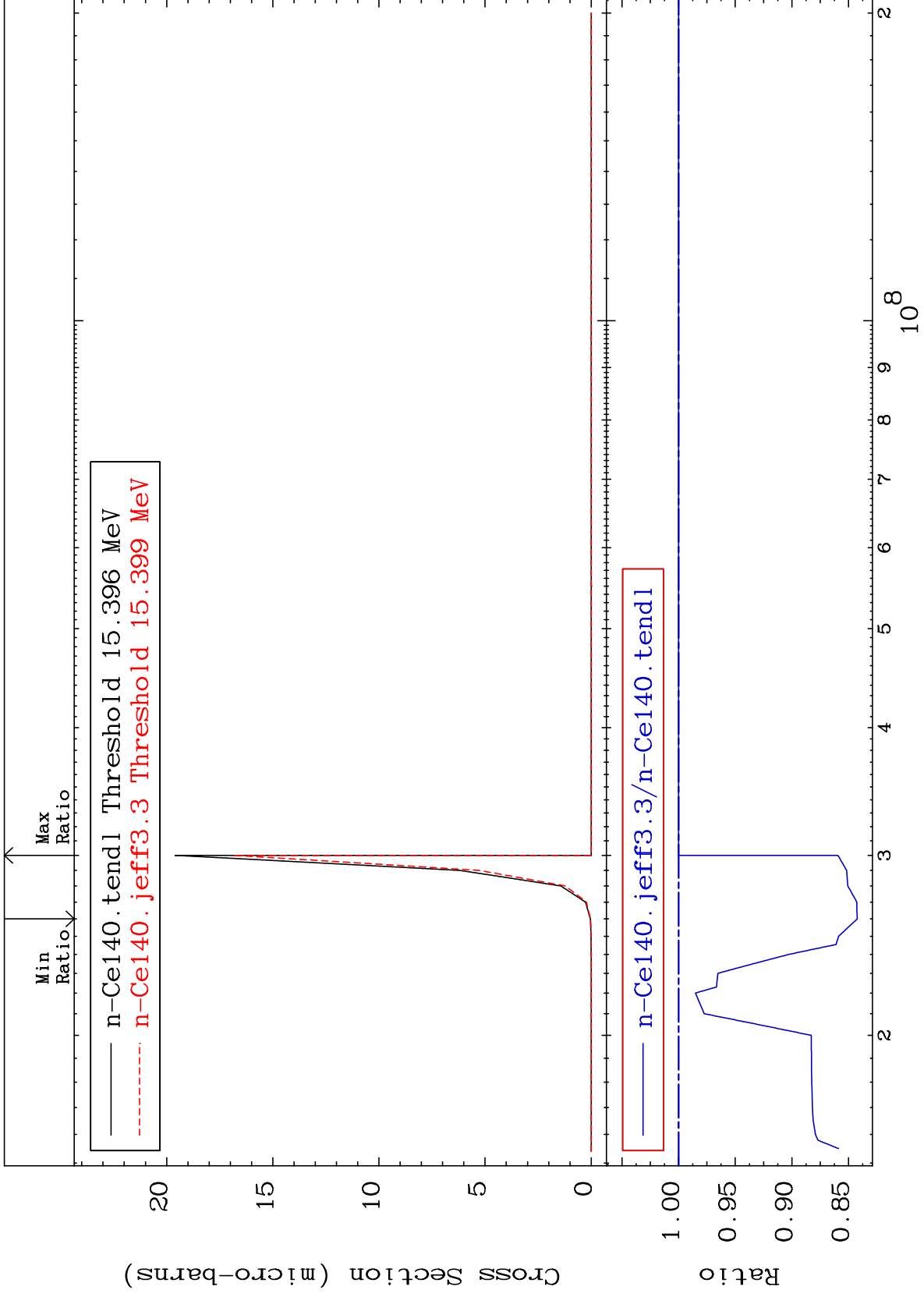
58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5837

(n, n') He-3:56-Ba-137g 58-Ce-140
Radionuclide Production Cross Section -15.77 To 0.000 %

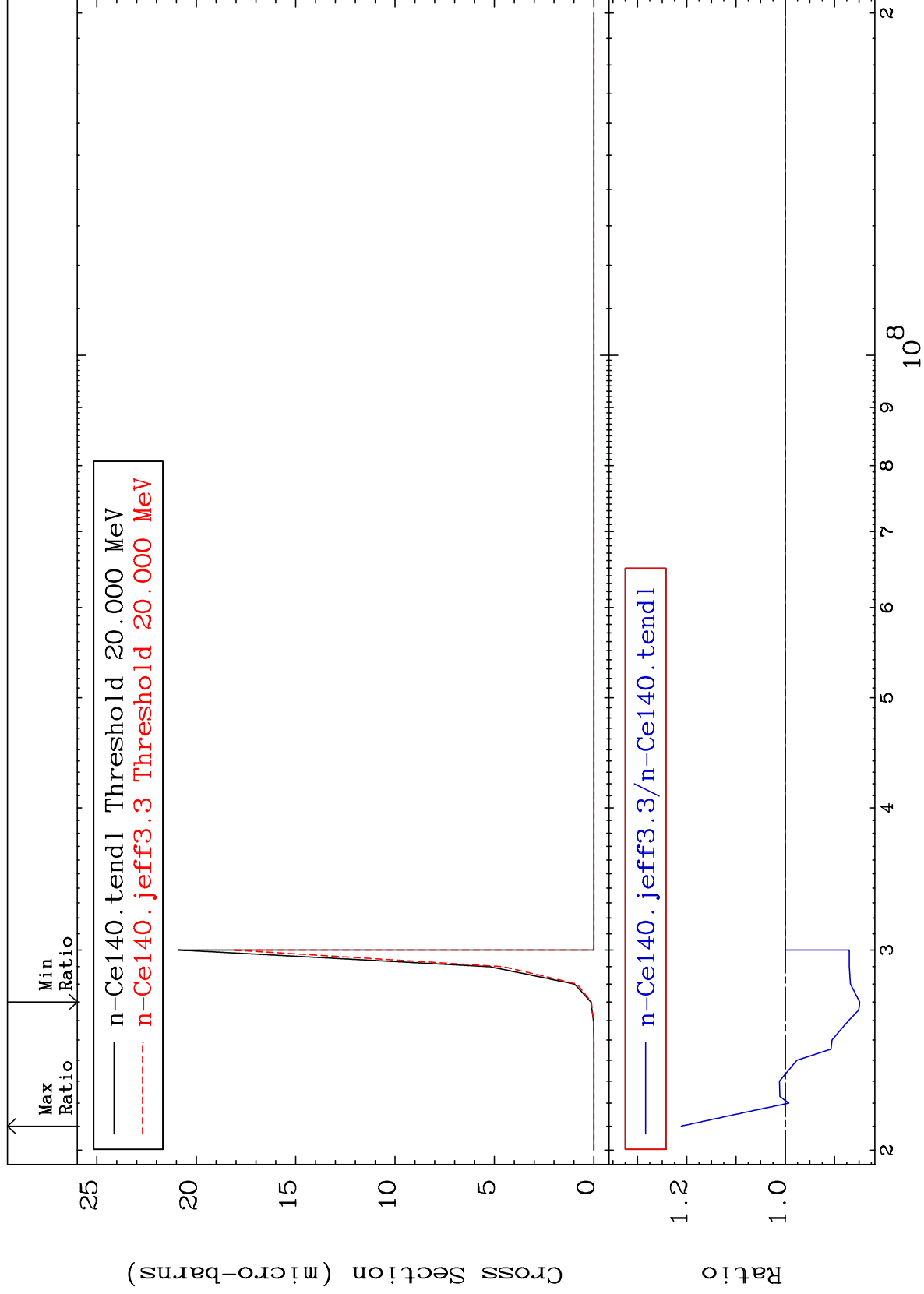


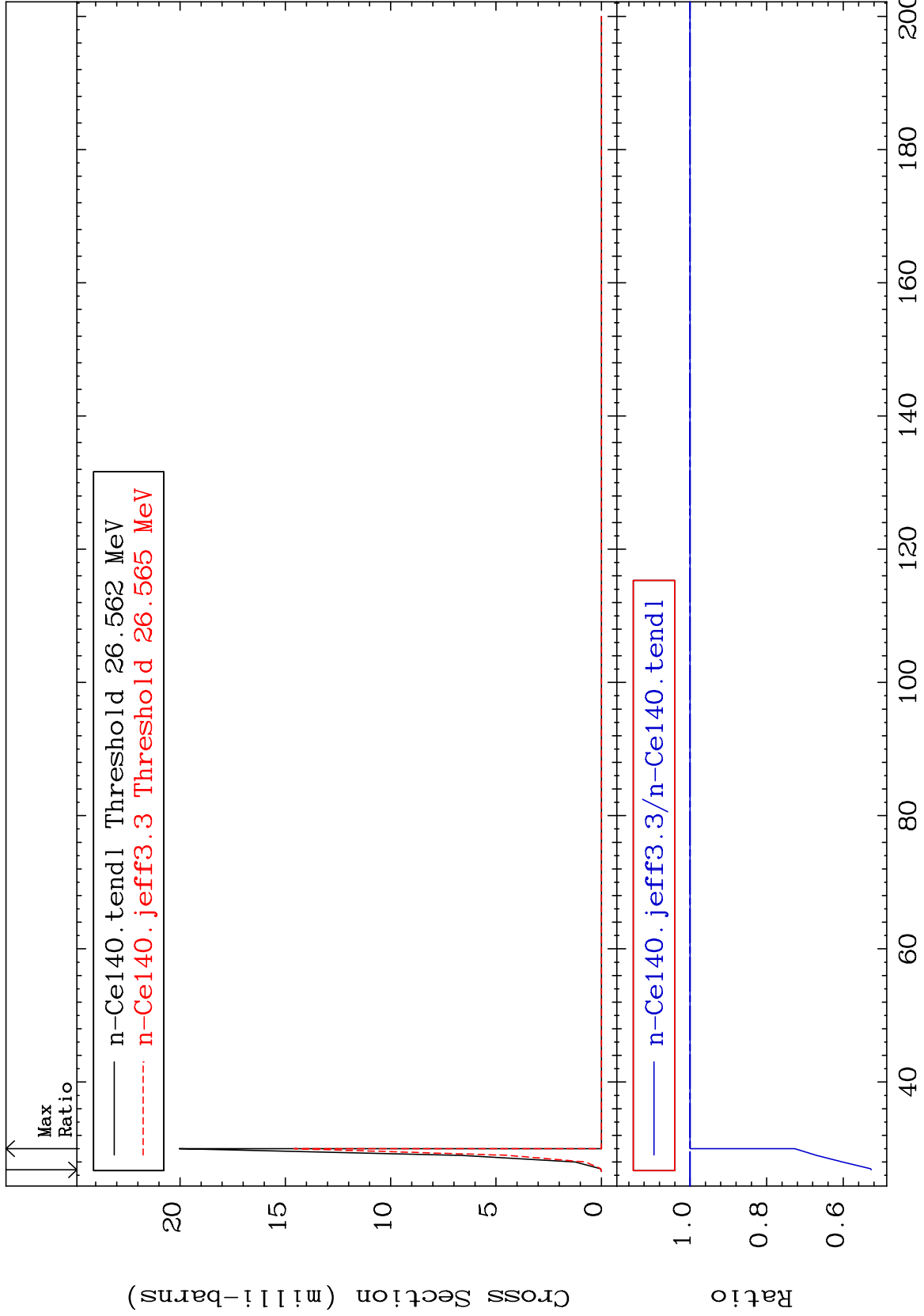
MAT 5837

(n, n') He-3:56-Ba-137m2

58-Ce-140

Radionuclide Production Cross Section -15.12 To 21.14 %



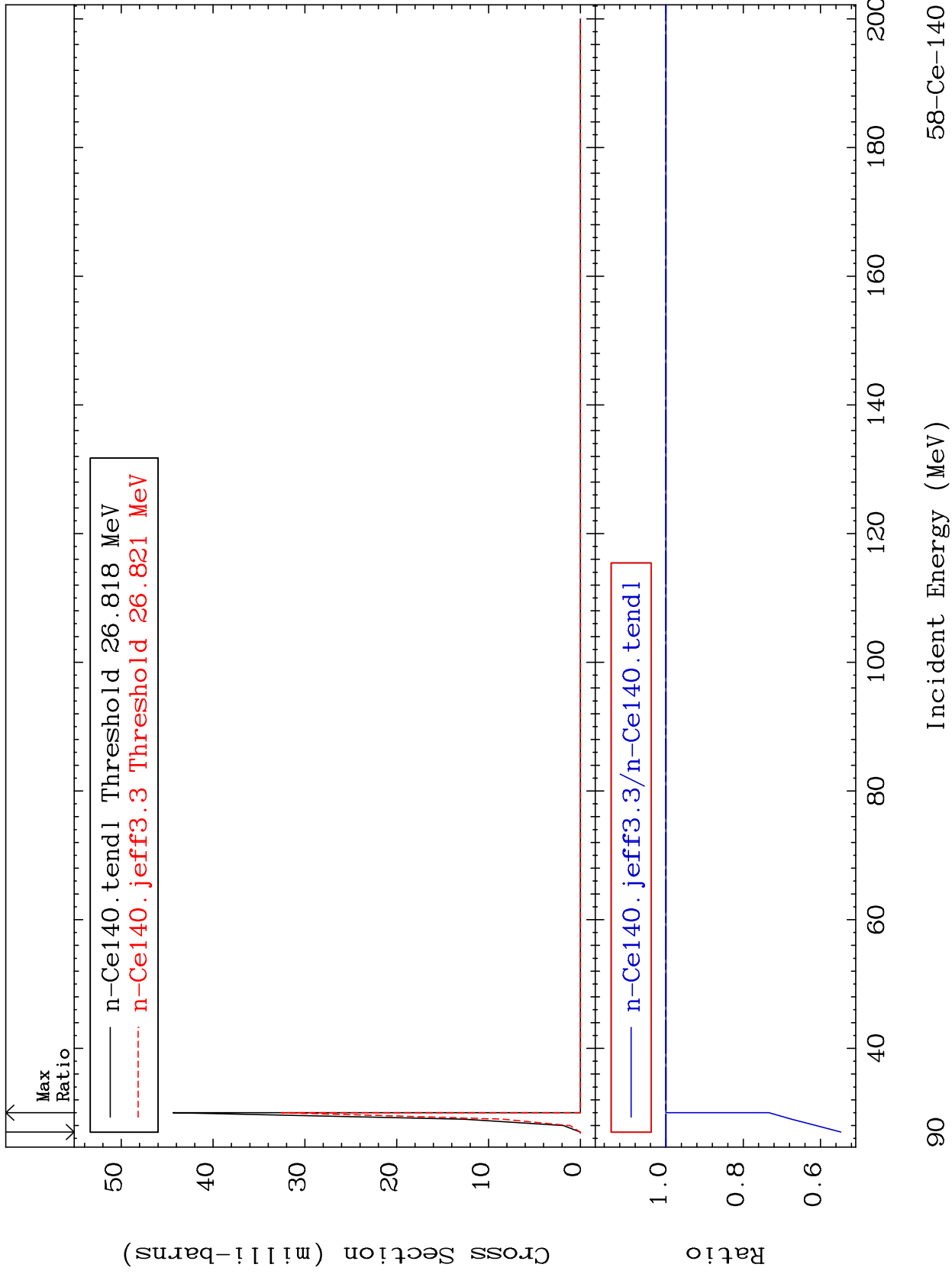


MAT 5837

(n, 4n) : 58-Ce-137m2

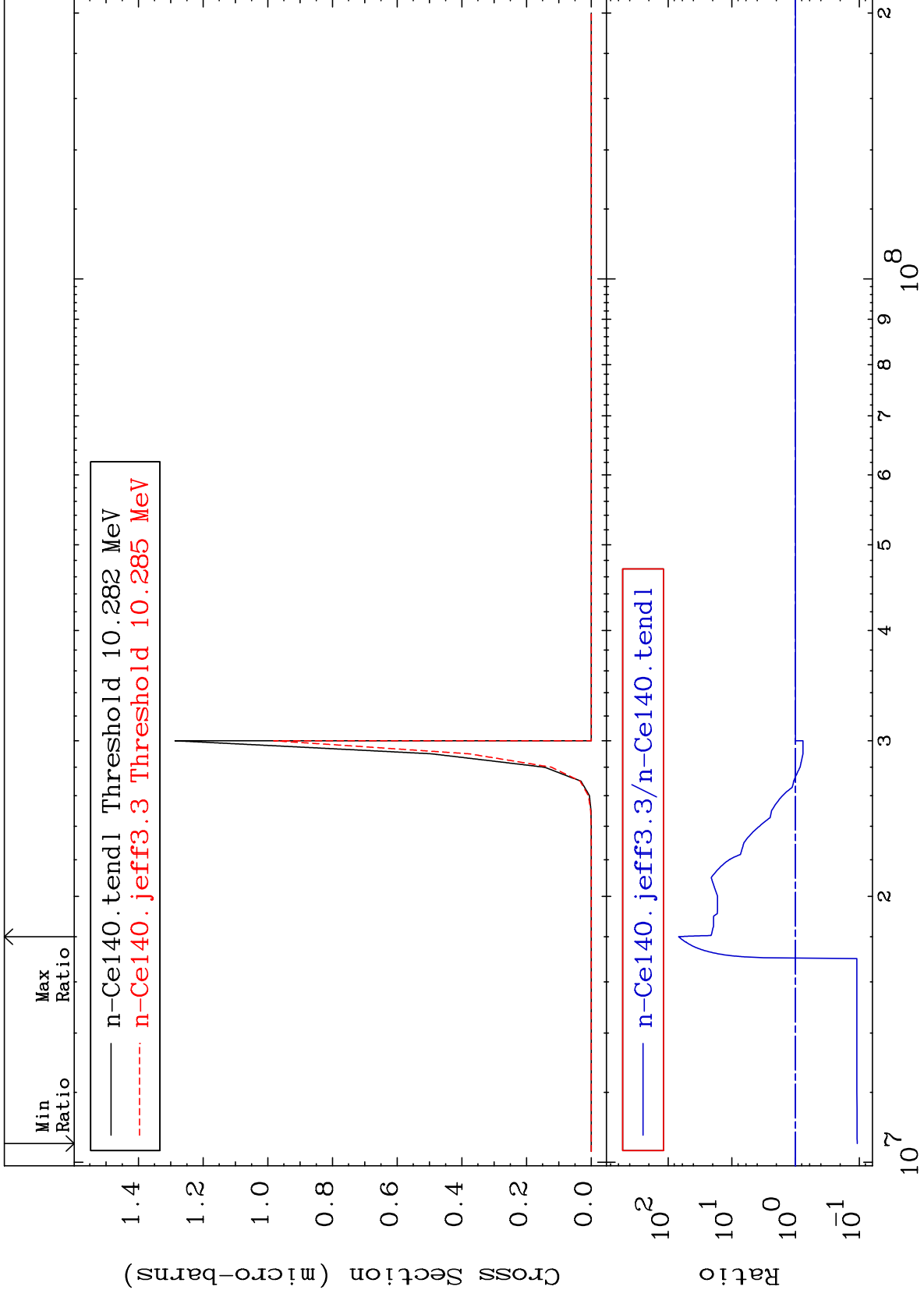
58-Ce-140

Radionuclide Production Cross Section -45.28 To 0.000 %



MAT 5837

(n,n') p α:55-Cs-135g 58-Ce-140
Radionuclide Production Cross Section -89.24 To 6734. %



91

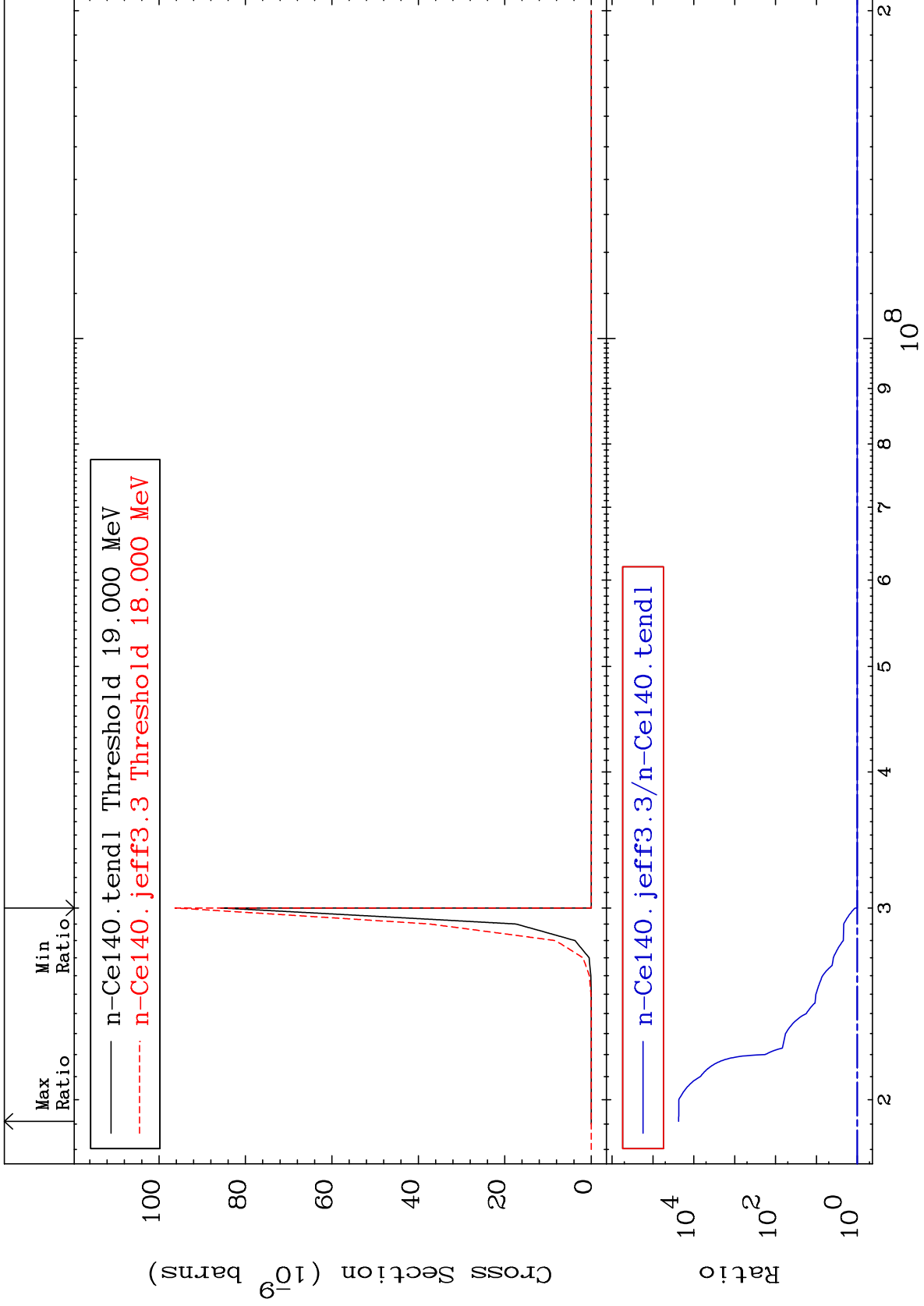
58-Ce-140

MAT 5837

(n, n') p α :55-Cs-135m10

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %

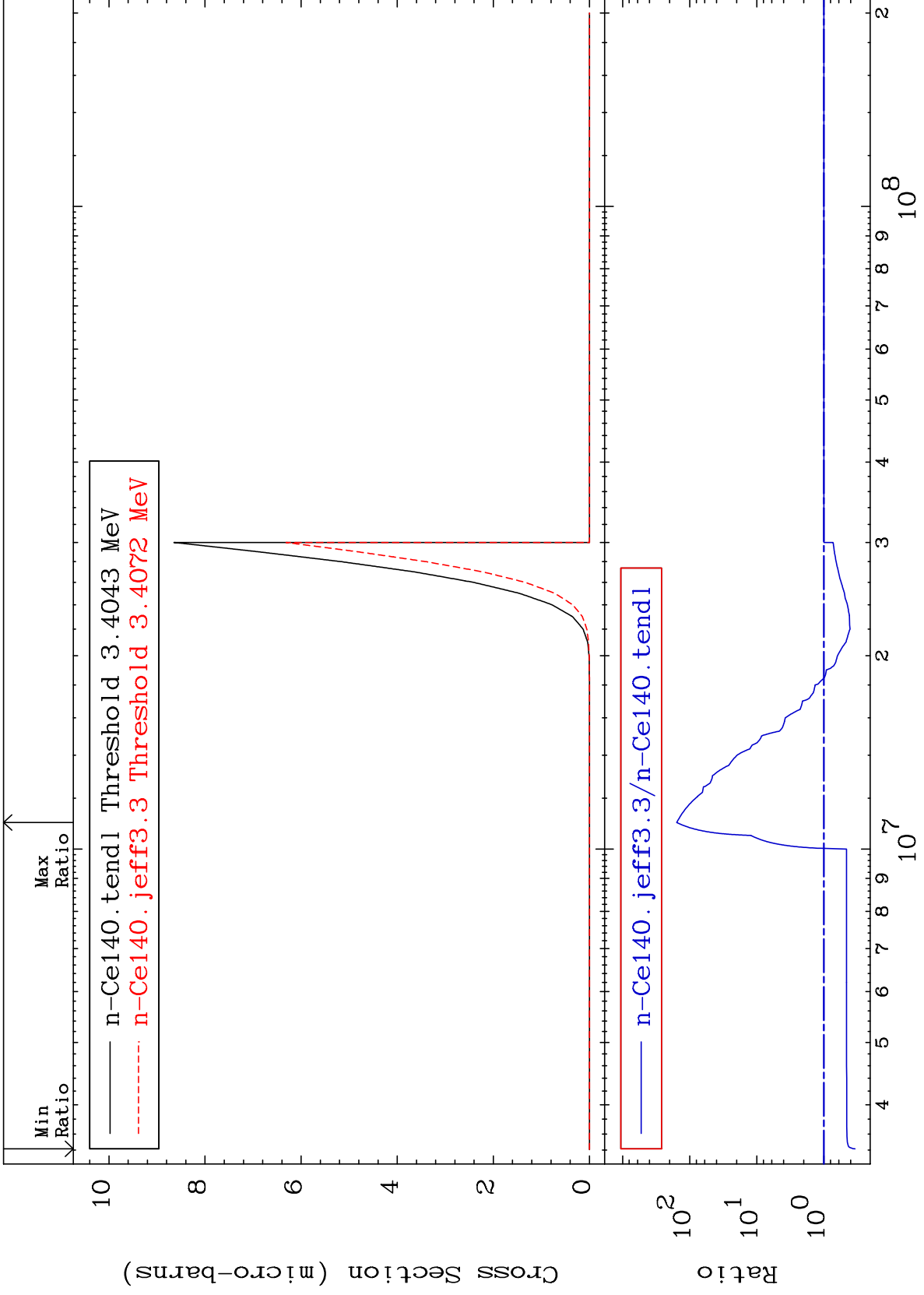


MAT 5837

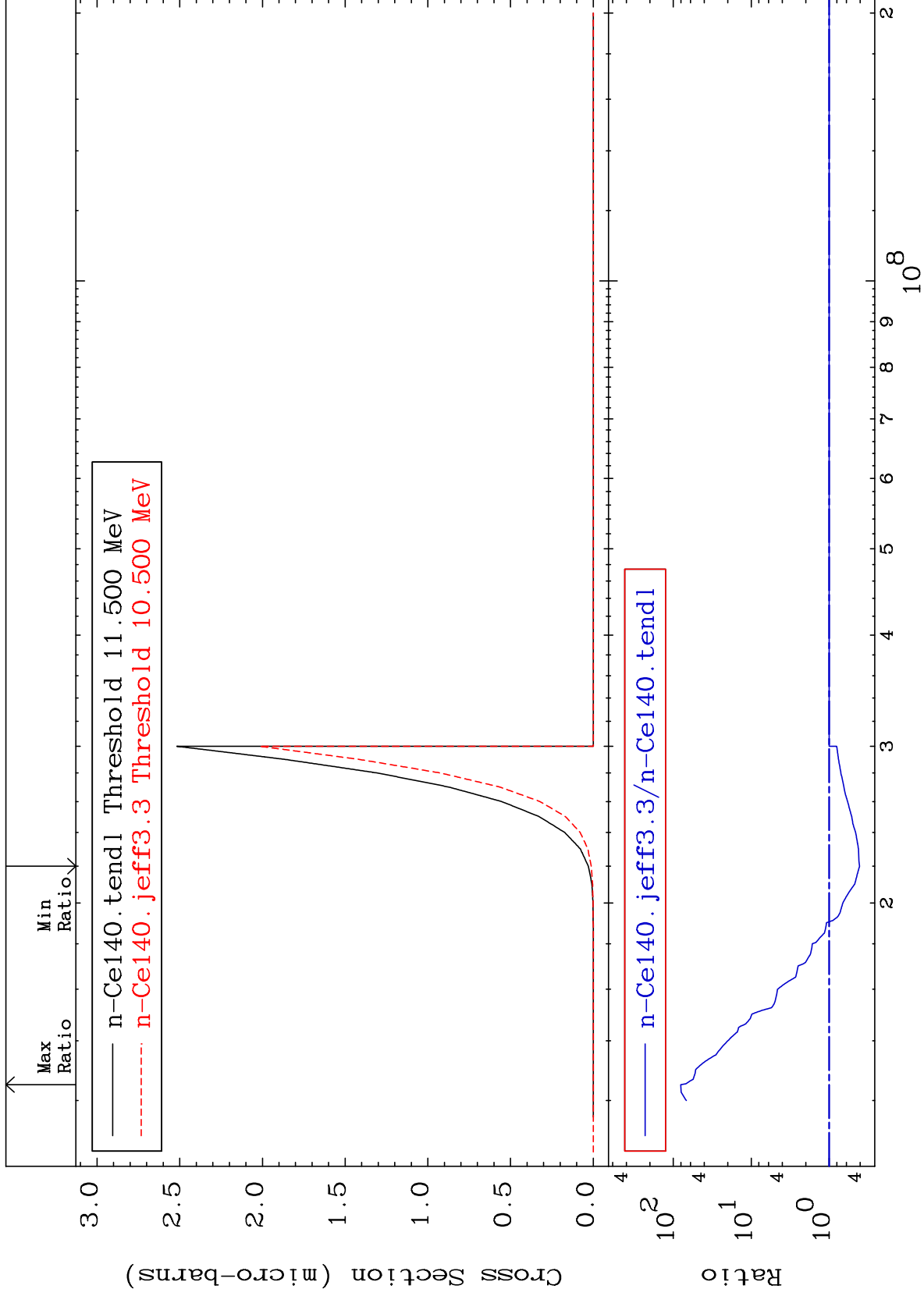
(n, p) α :55-Cs-136g

58-Ce-140

Radionuclide Production Cross Section -65.58 To 9999. %



Radionuclide Production Cross Section -59.17 To 7917. %

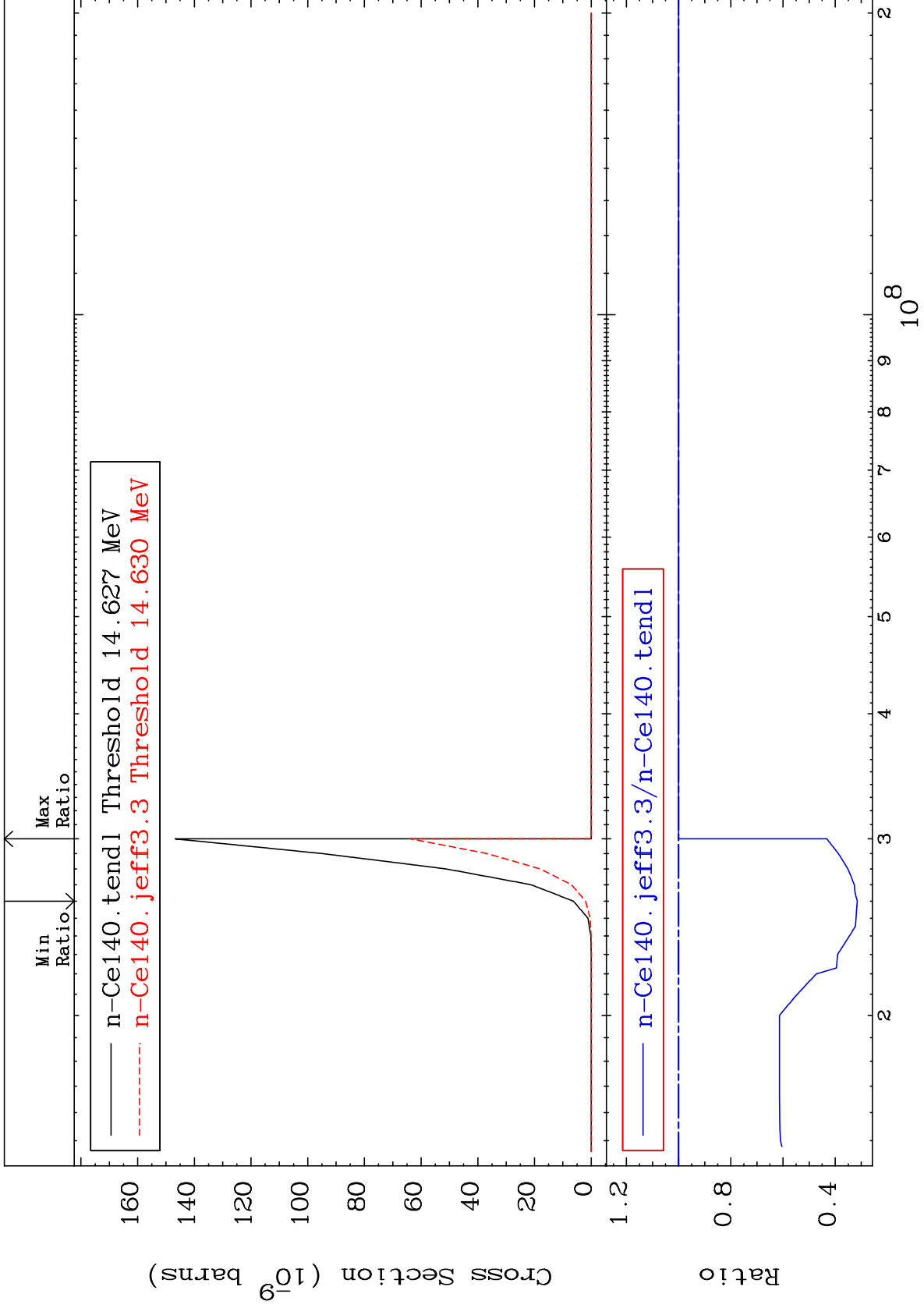


MAT 5837

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

58-Ce-140

Radionuclide Production Cross Section -68.45 To 0.000 %



95

58-Ce-140

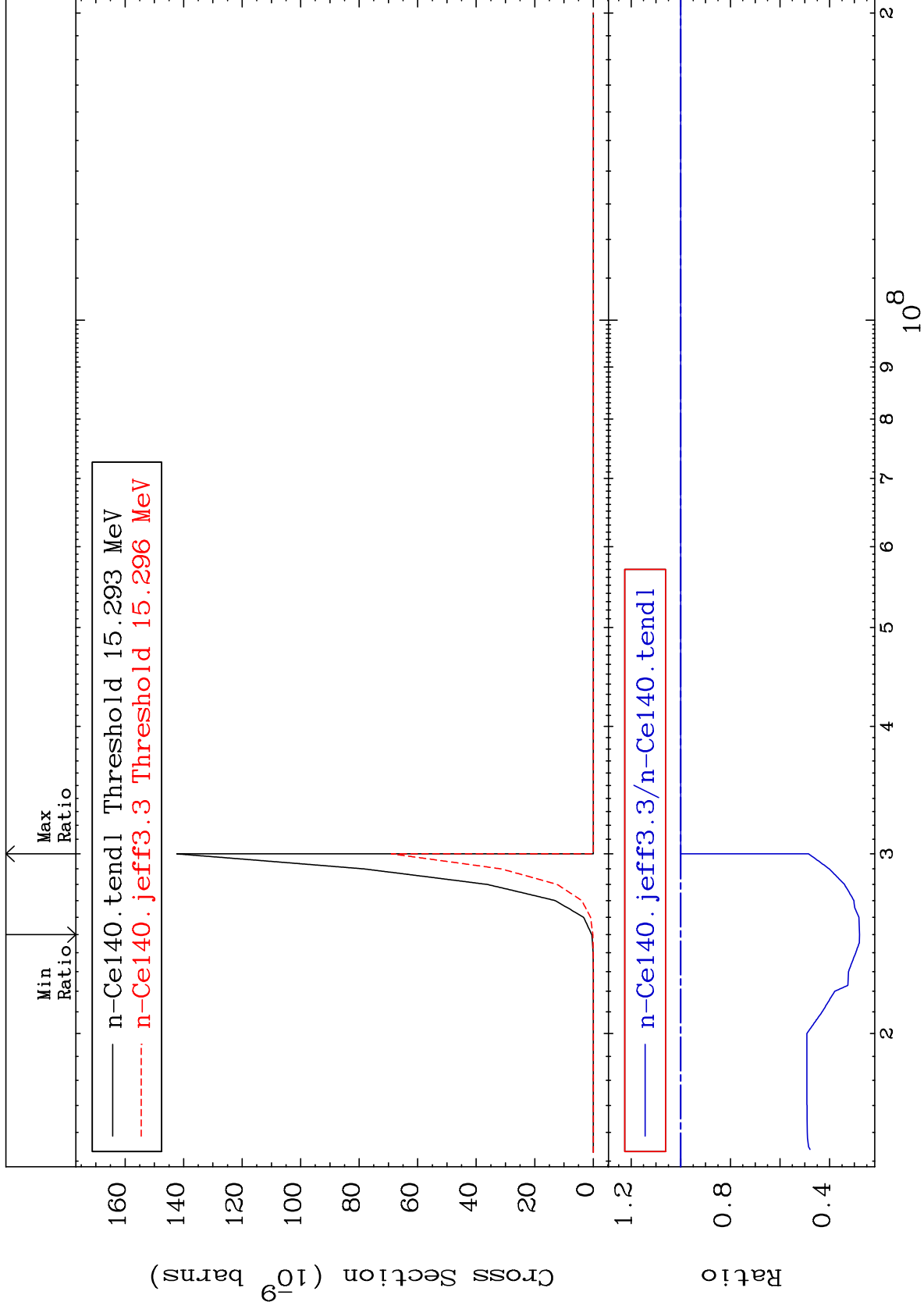
MAT 5837

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

58-Ce-140

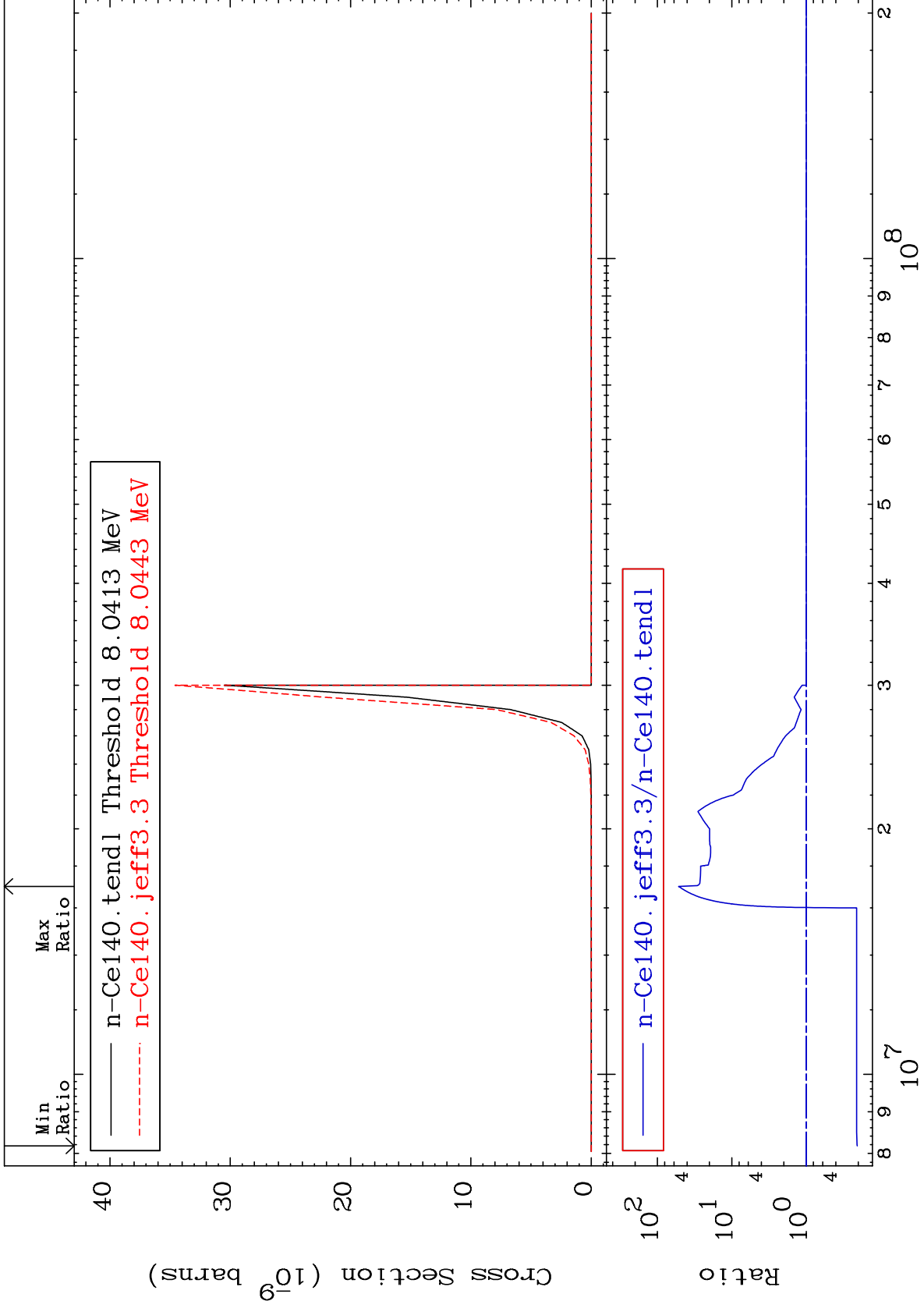
Radionuclide Production Cross Section

-72.07 To 0.000 %



MAT 5837

(n, d) α :55-Cs-135g 58-Ce-140
Radionuclide Production Cross Section -79.38 To 5092. %



97

Incident Energy (eV)

58-Ce-140

MAT 5837

(n, d) α :55-Cs-135m10

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %

