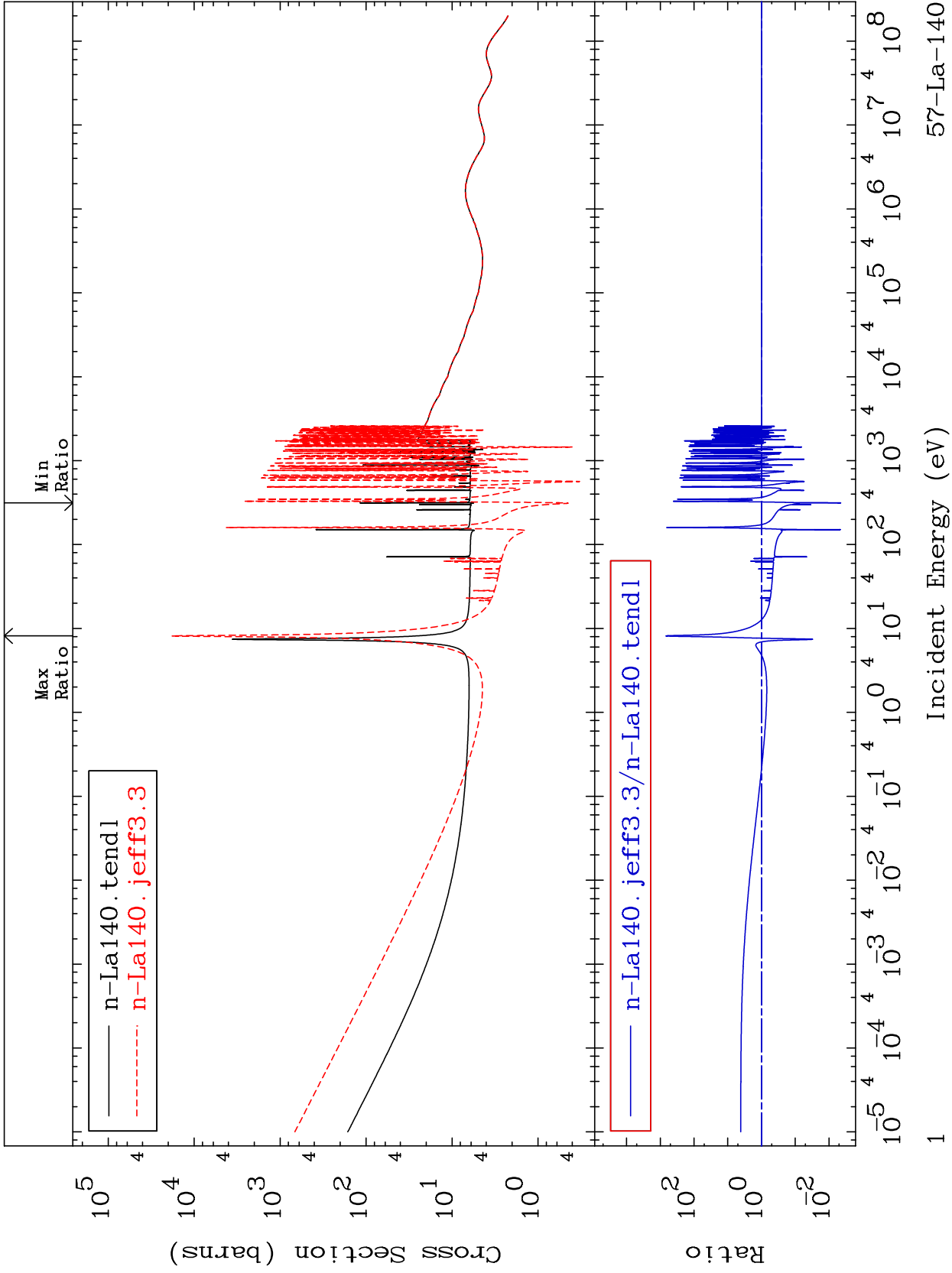


MAT 5731

Total
Cross Section

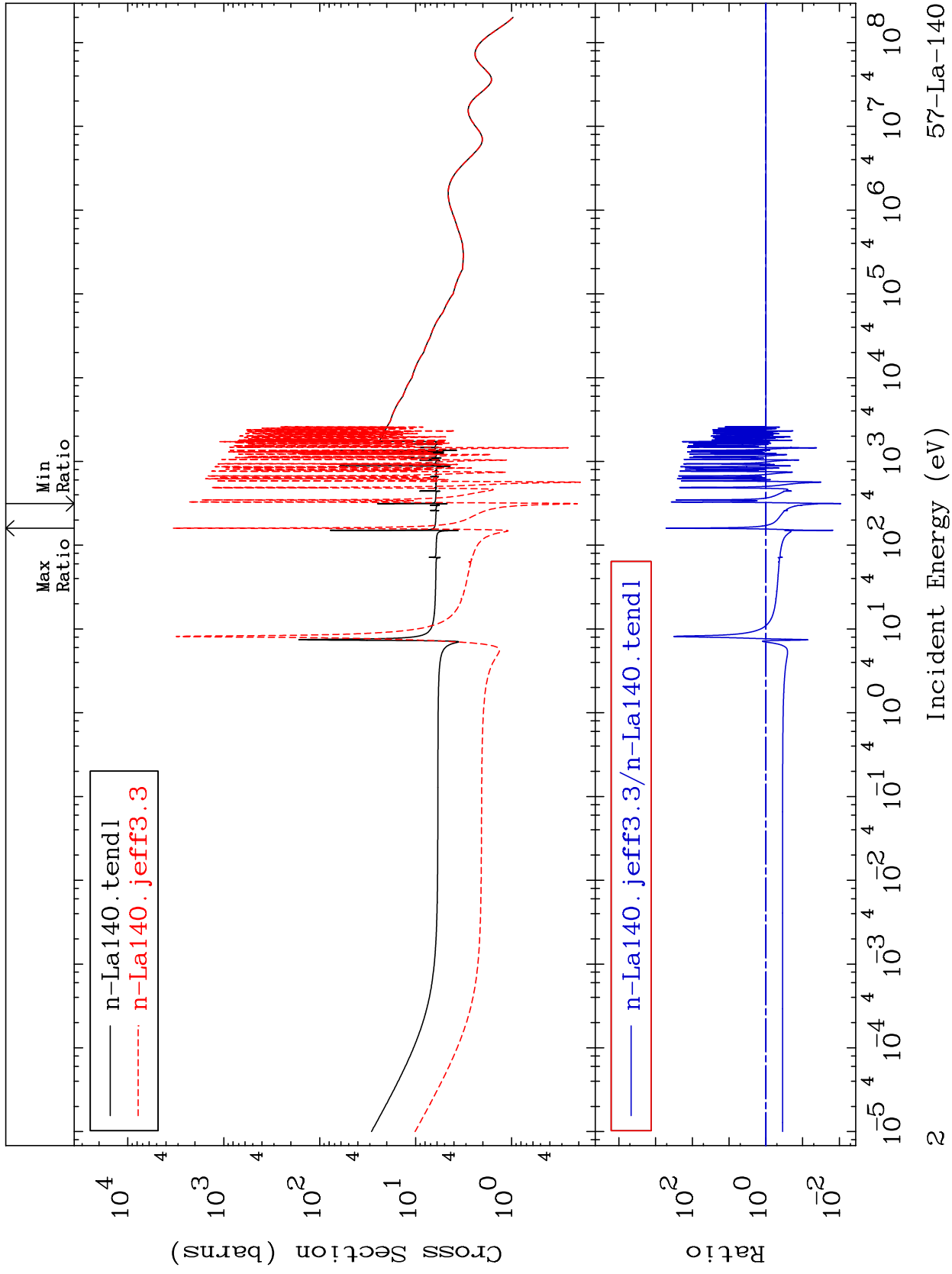
57-La-140
-99.55 To 9999. %



57-La-140

MAT 5731

Elastic Cross Section
57-La-140
-99.09 To 9999. %



57-La-140

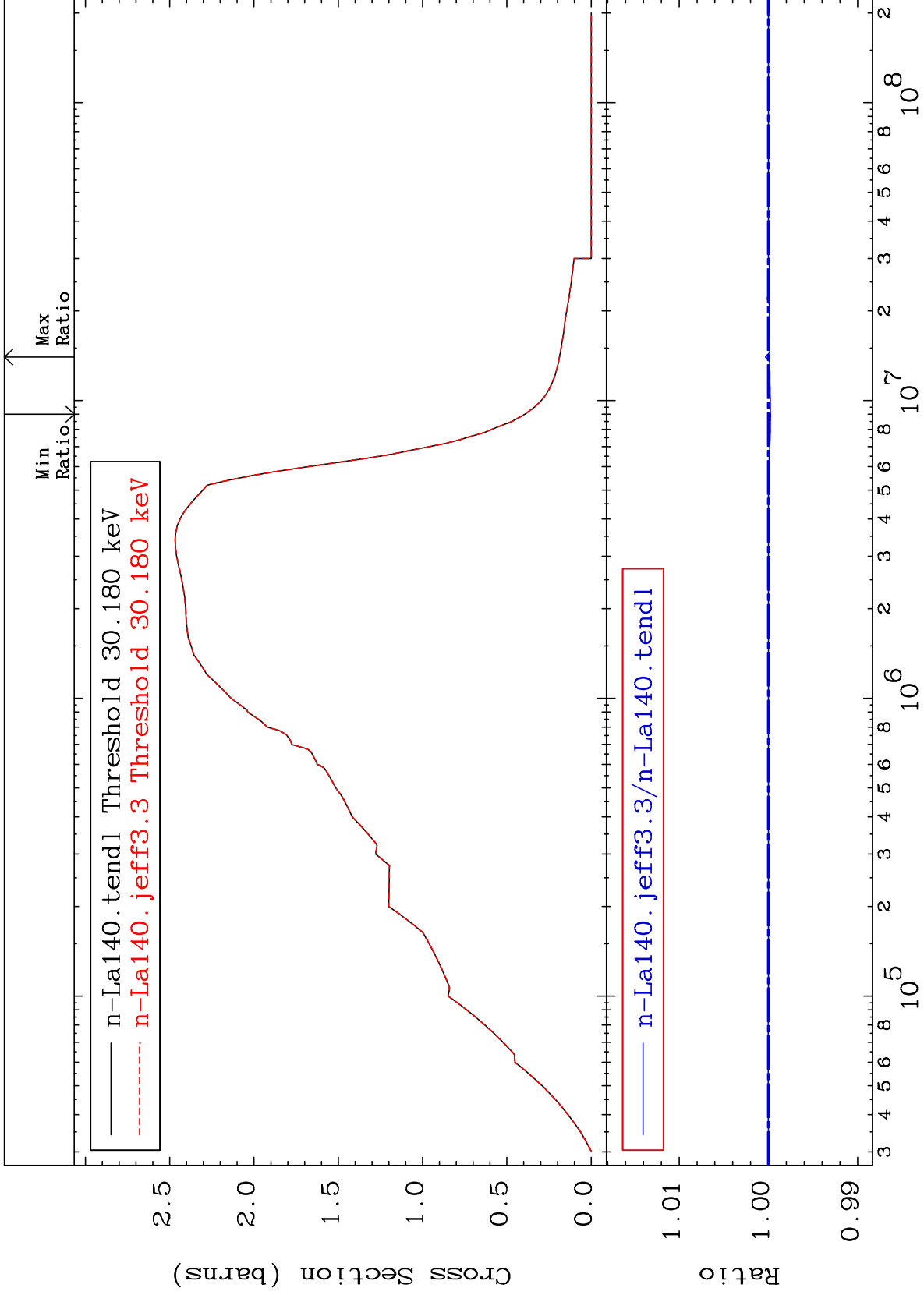
Incident Energy (eV)

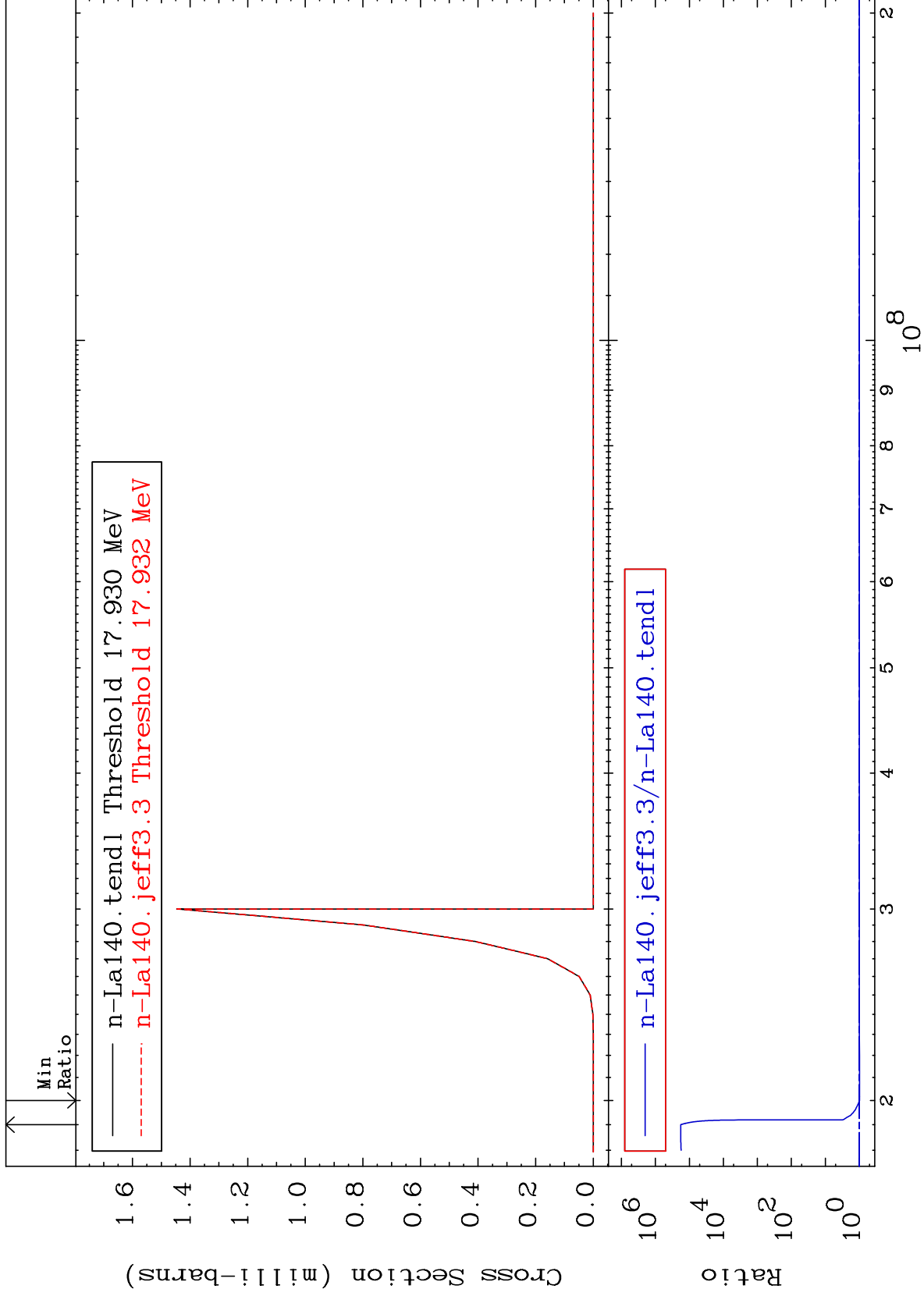
2

MAT 5731

Inelastic
Cross Section

57-La-140
-0.022 To 0.033 %





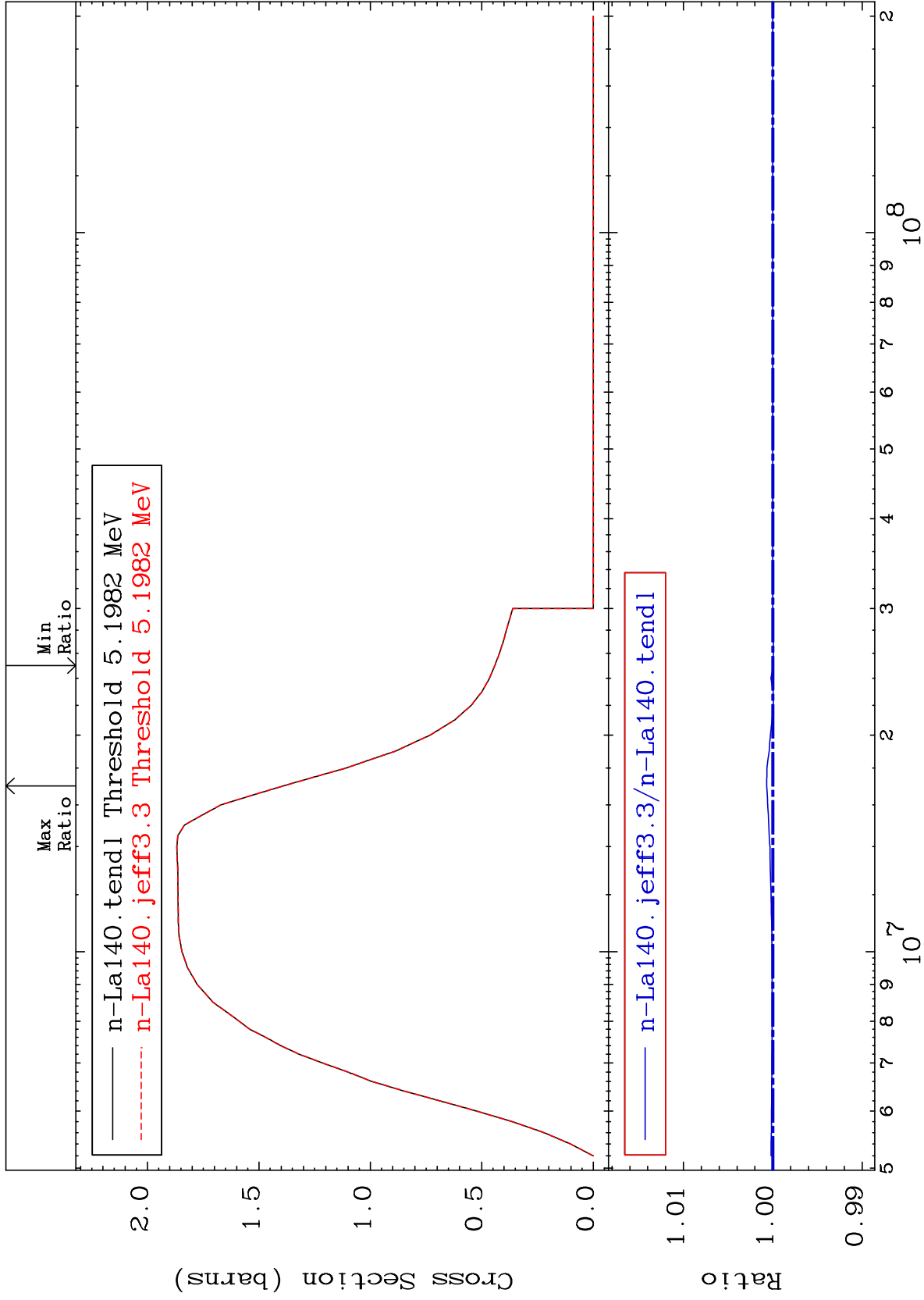
MAT 5731

(n,2n)

57-La-140

Cross Section

-0.009 To 0.068 %



57-La-140

57-La-140

5

MAT 5731

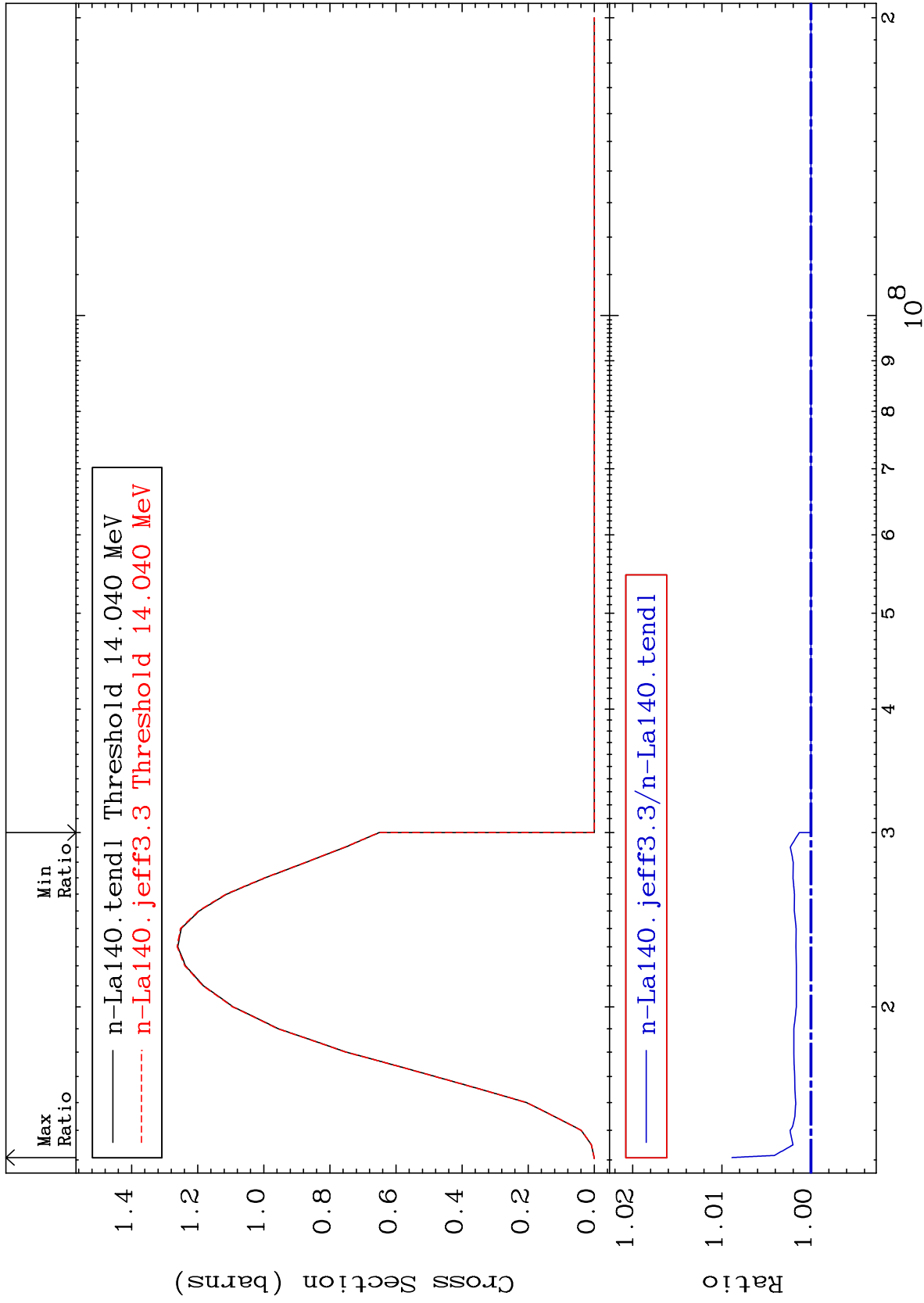
(n,3n)

57-La-140

Cross Section

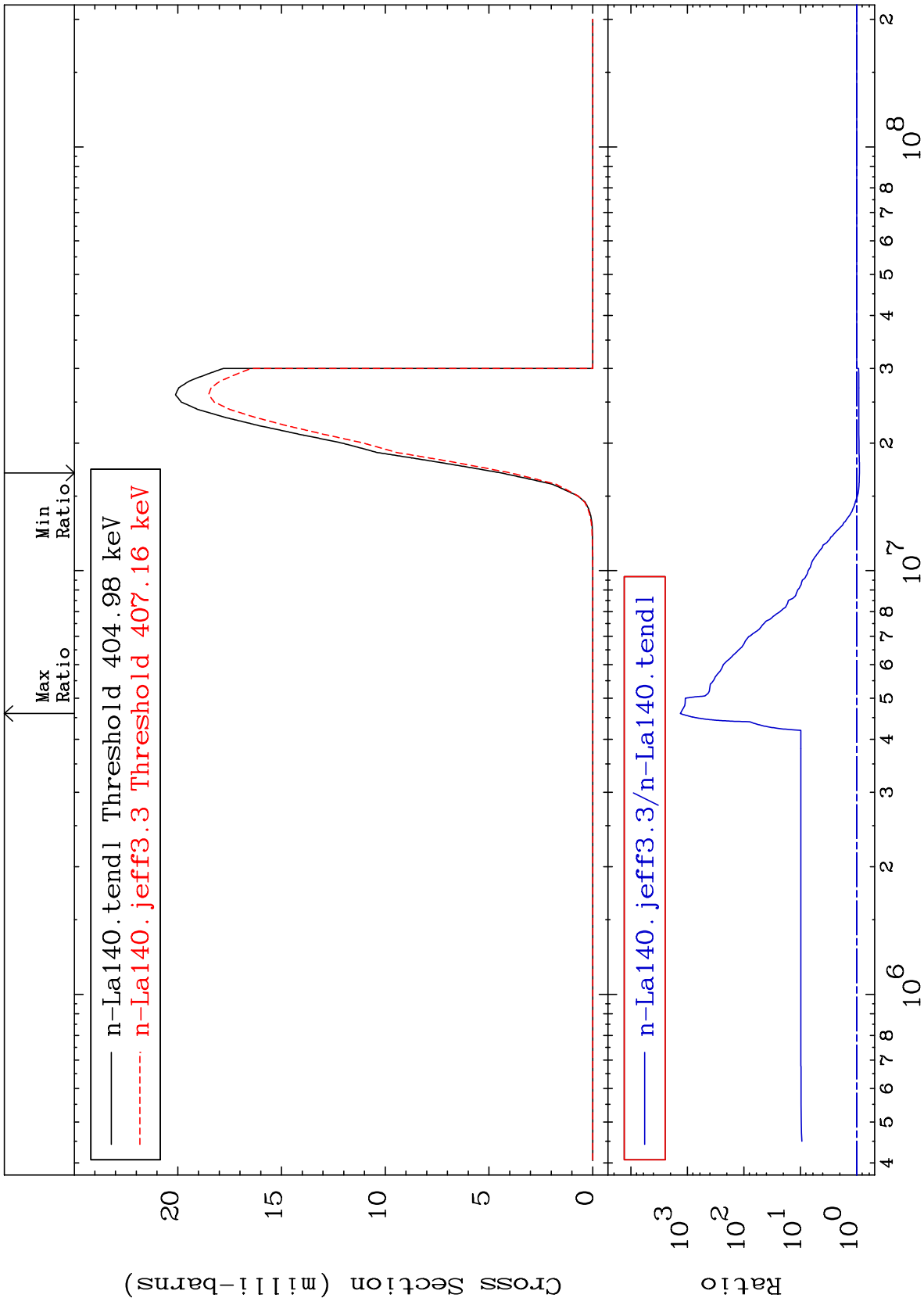
0.000

To 0.886 %



MAT 5731

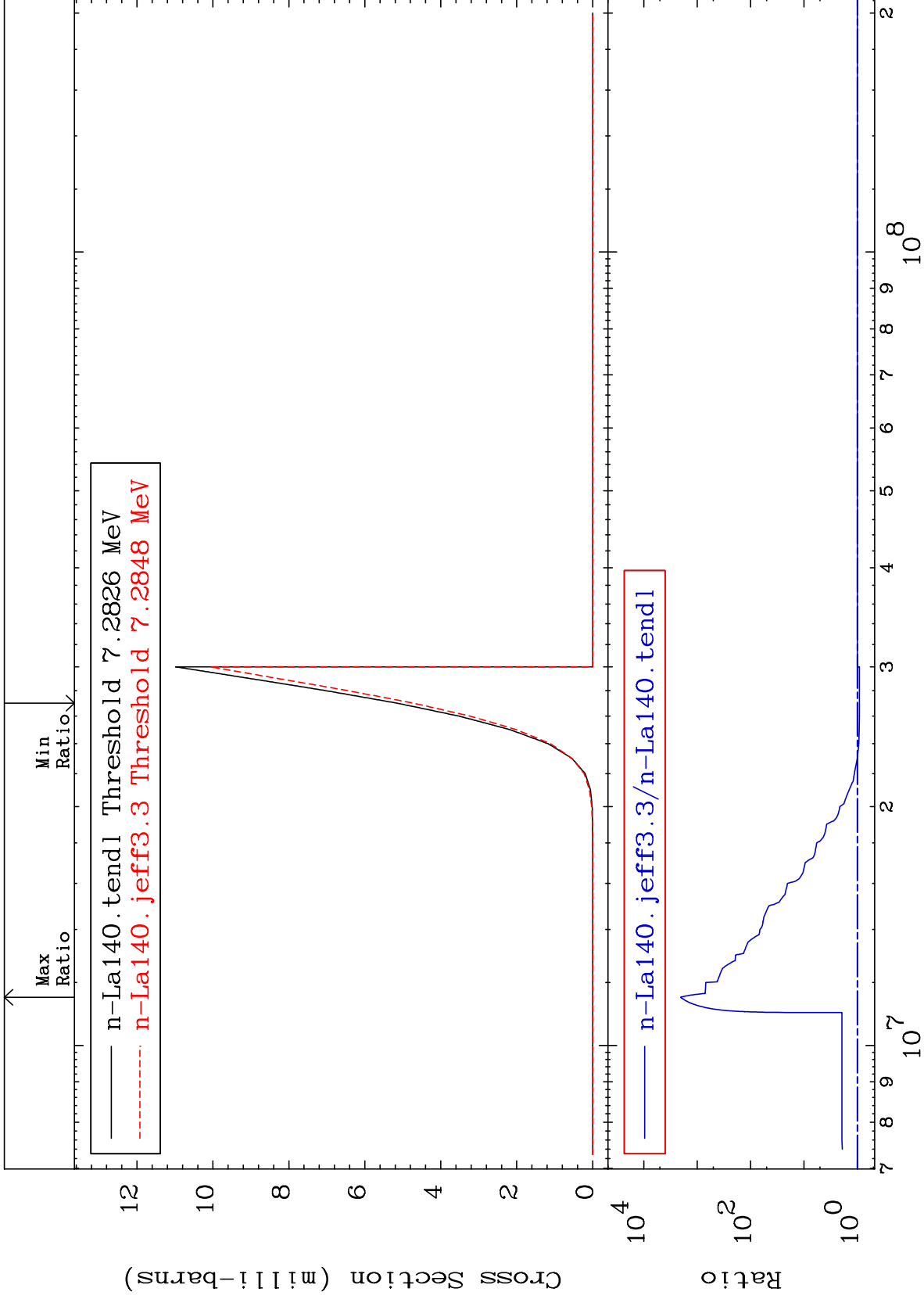
(n, n') α
Cross Section
57-La-140
-10.29 To 9999. %



MAT 5731

(n,2n) α
Cross Section

57-La-140
-8.371 To 9999. %



8

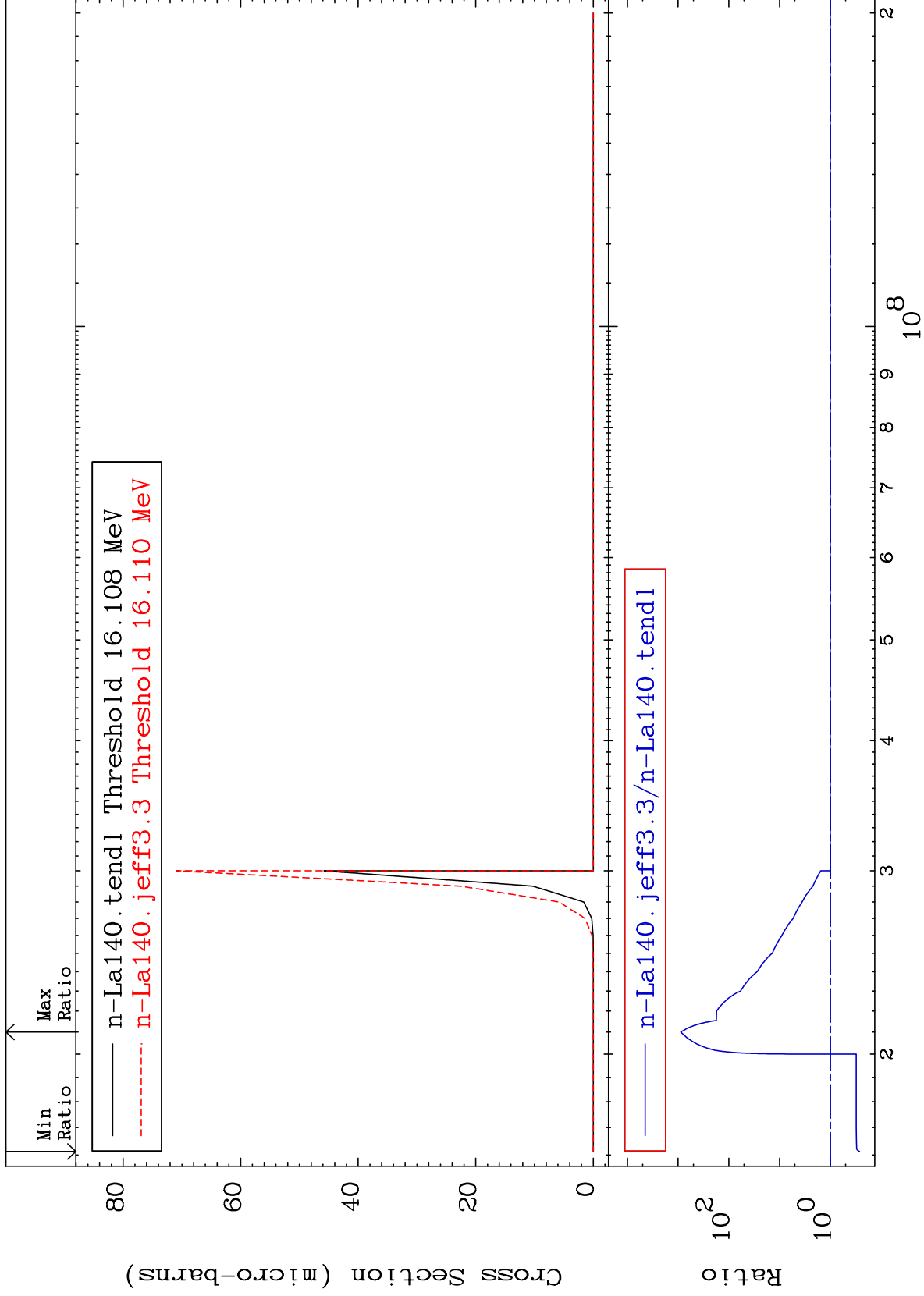
Incident Energy (eV)

57-La-140

MAT 5731

(n,3n) α
Cross Section

57-La-140
-73.50 To 9999. %



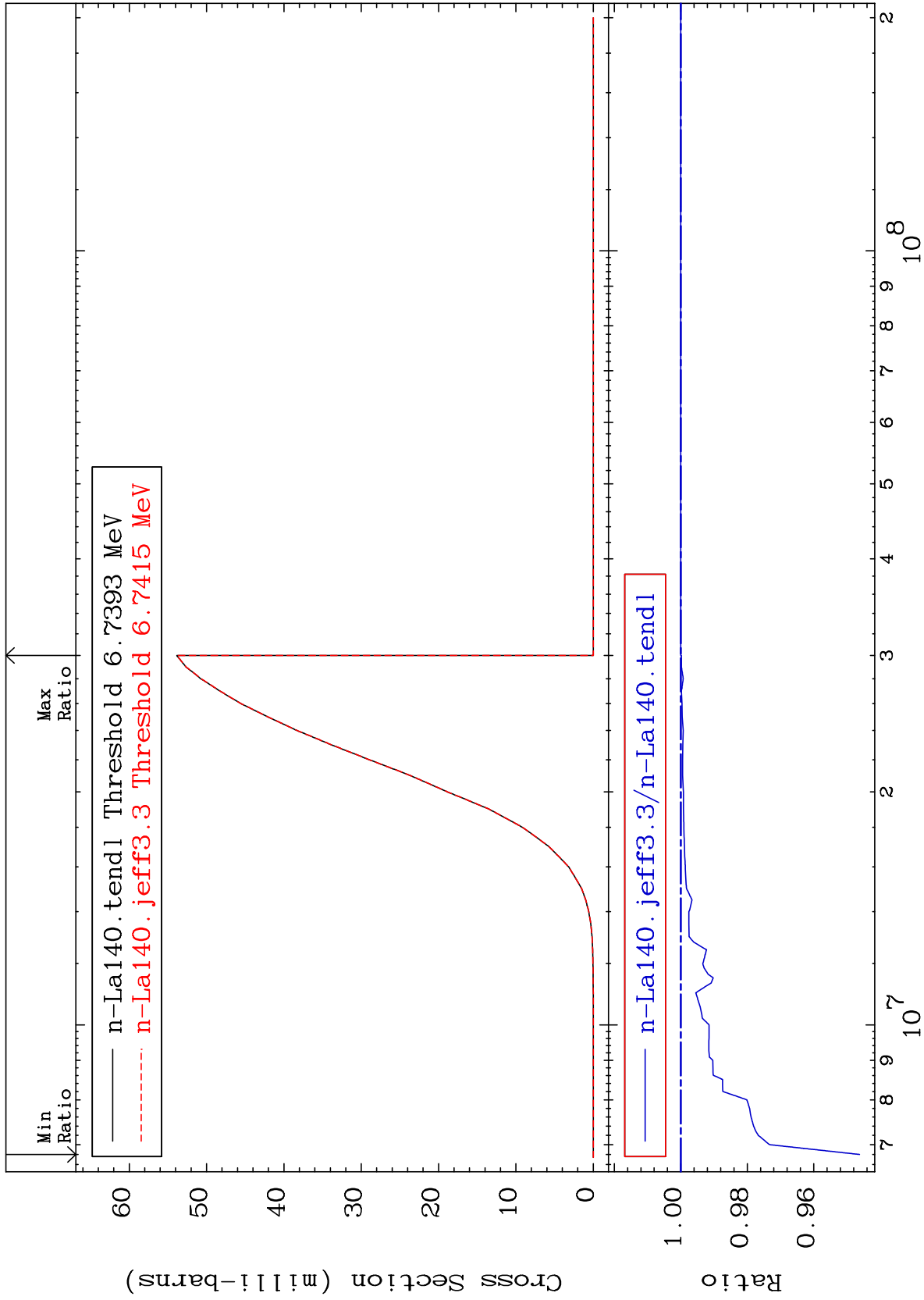
MAT 5731

(n,n') p

57-La-140

Cross Section

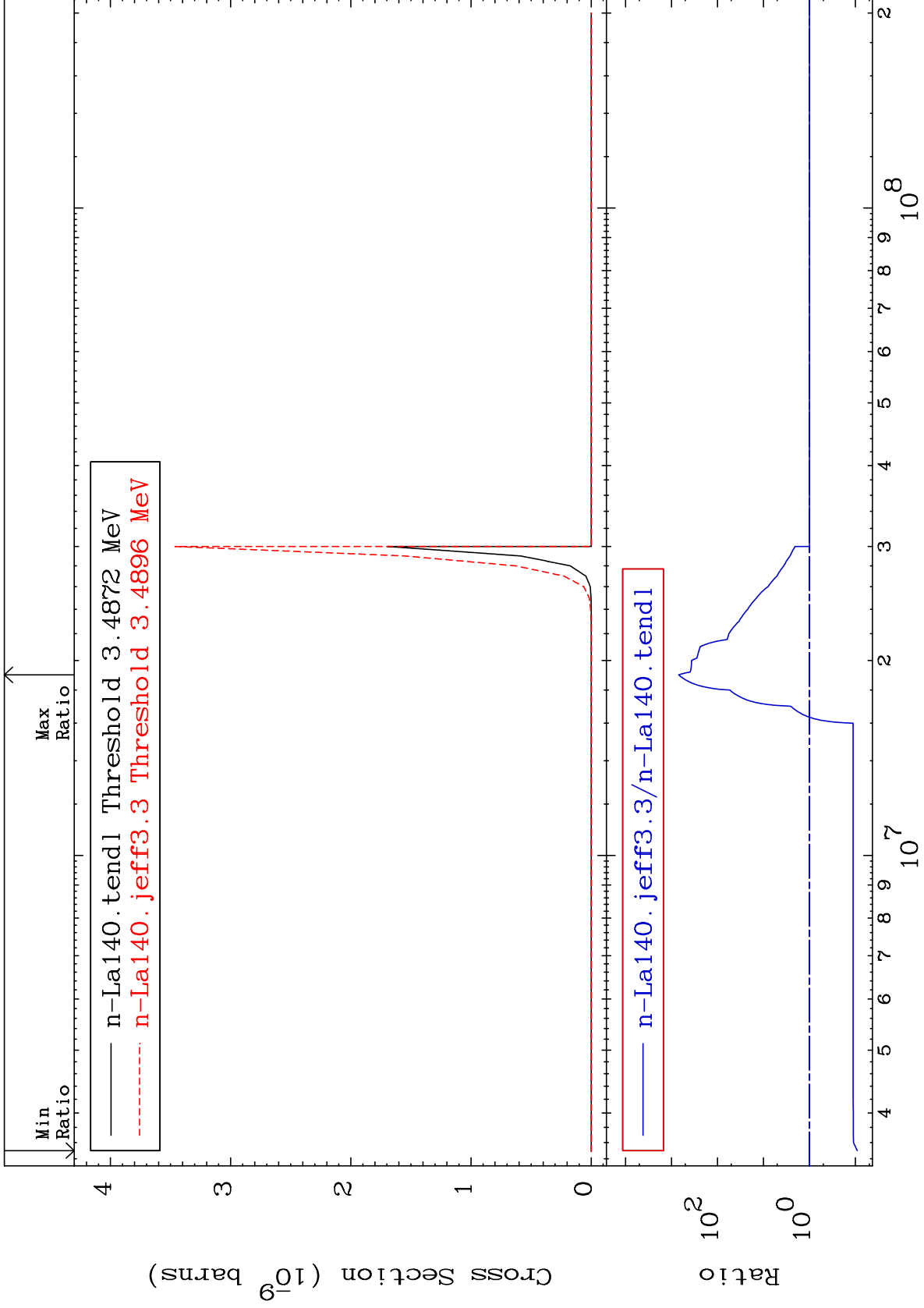
-5.377 To 0.000 %



MAT 5731

(n, n') 2α
Cross Section

57-La-140
-90.89 To 9999. %



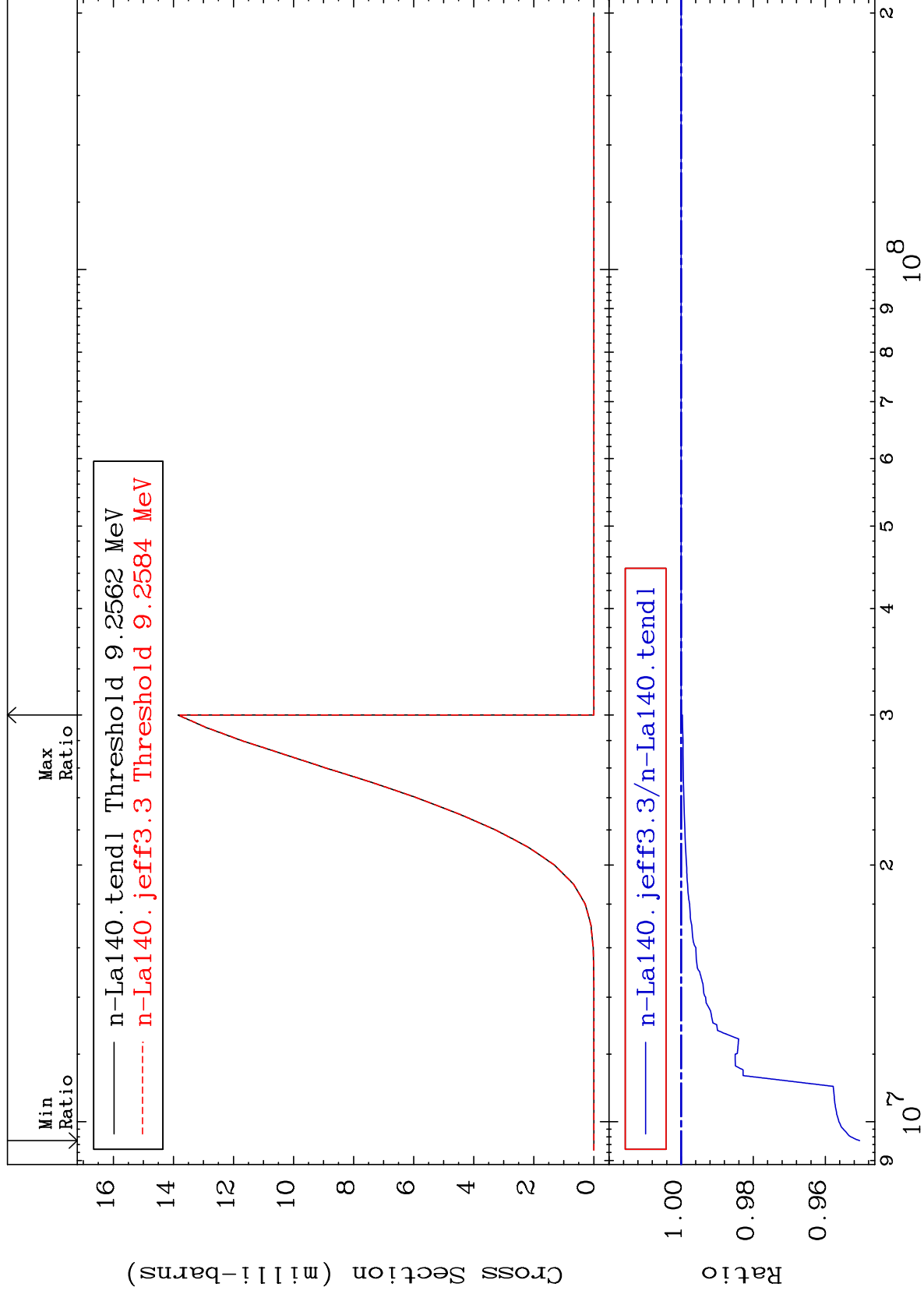
MAT 5731

(n,n') d

57-La-140

Cross Section

-4.951 To 0.000 %



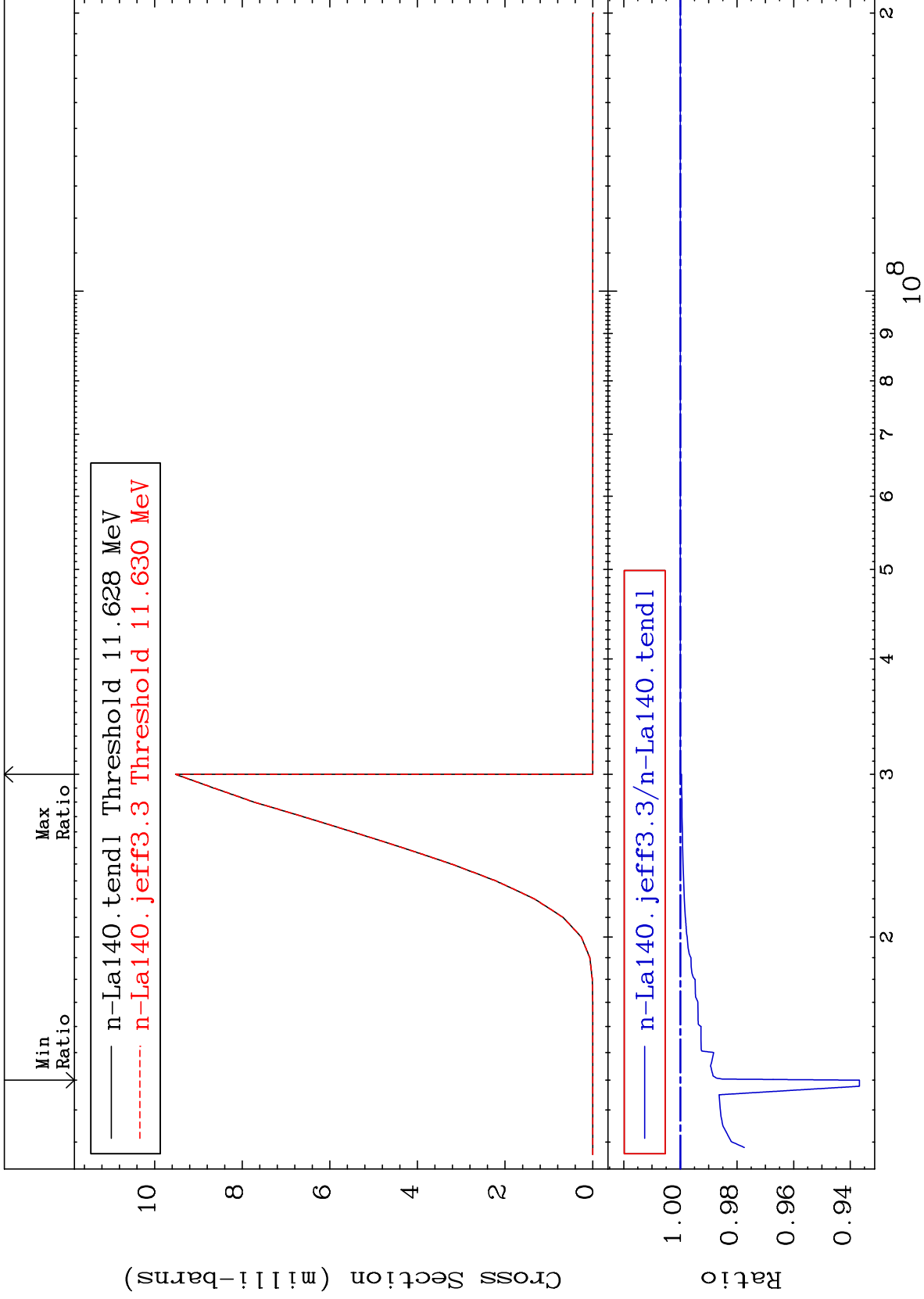
12

Incident Energy (eV)

57-La-140

Cross Section

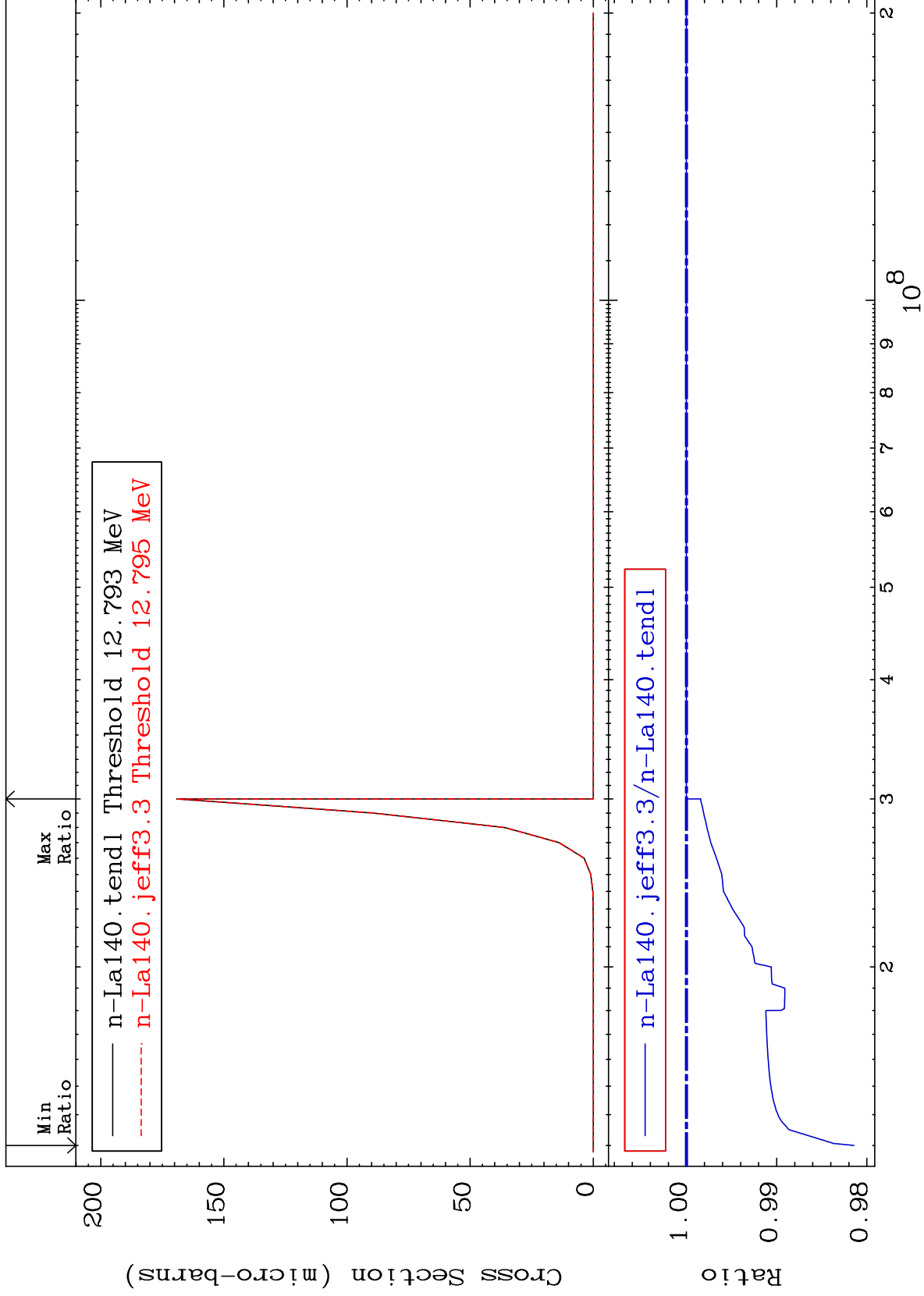
-6.323 To 0.000 %



MAT 5731

(n, n') He-3
Cross Section

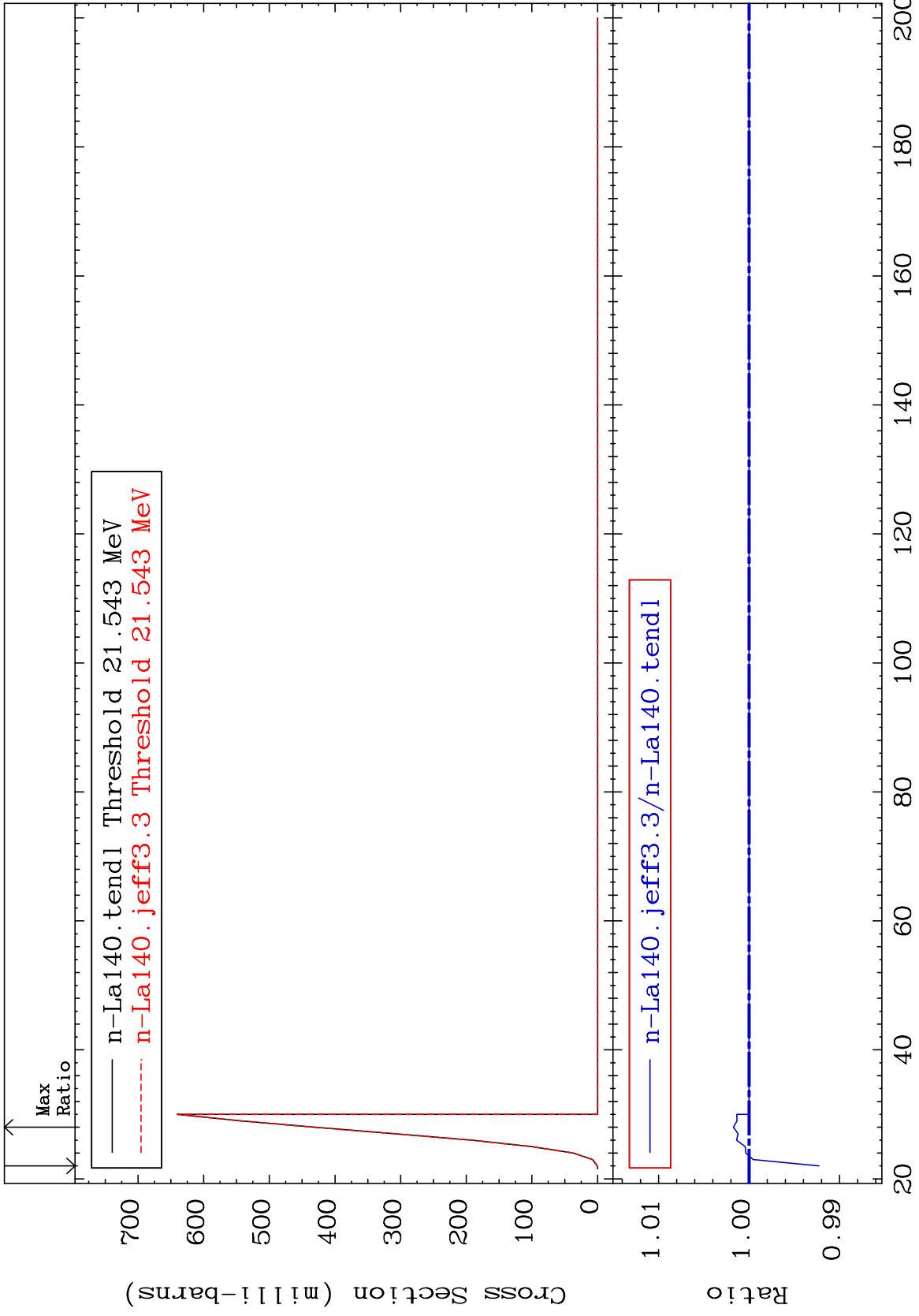
57-La-140
-1.856 To 0.000 %

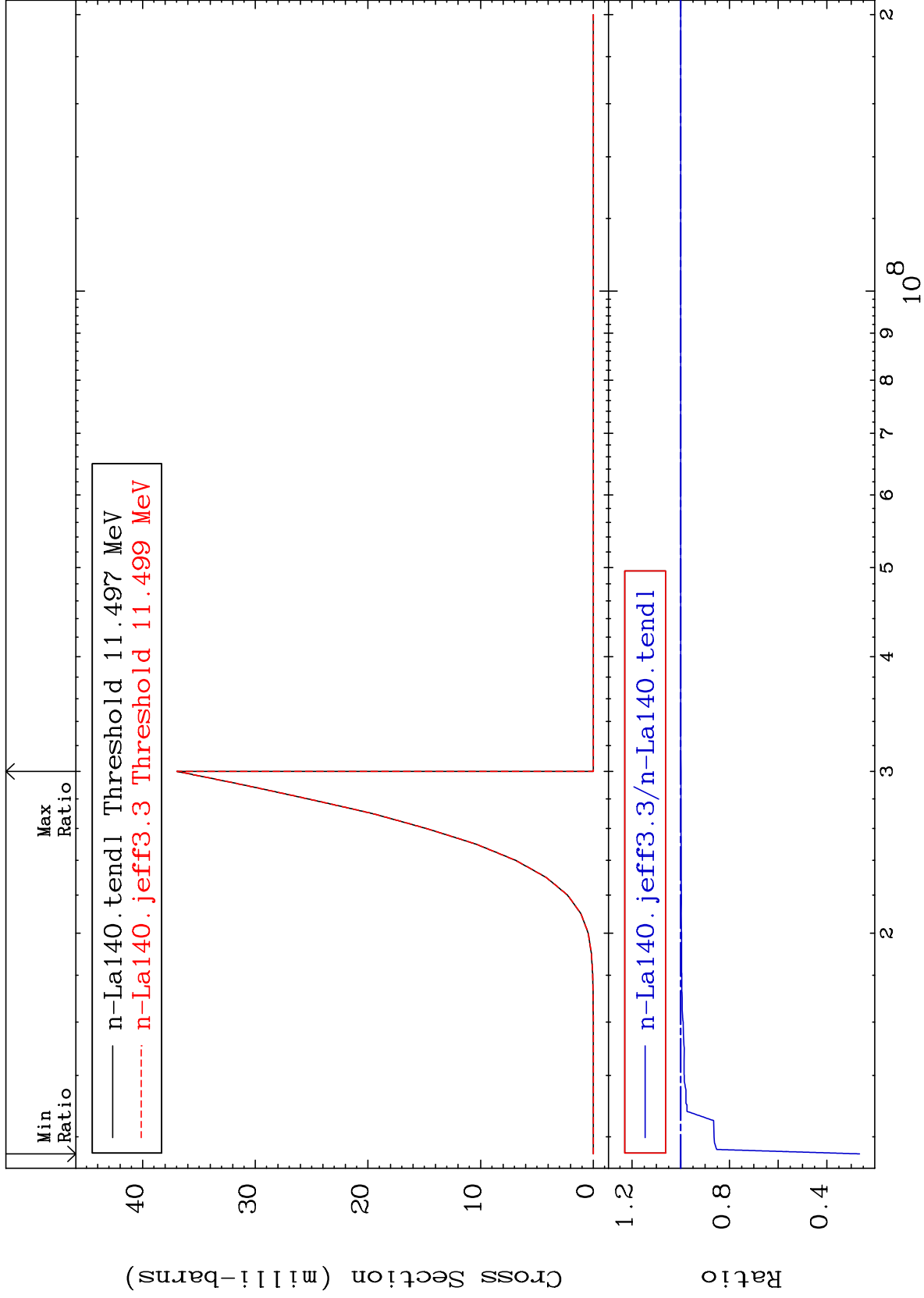


MAT 5731

(n,4n)
Cross Section

57-La-140
-0.772 To 0.172 %

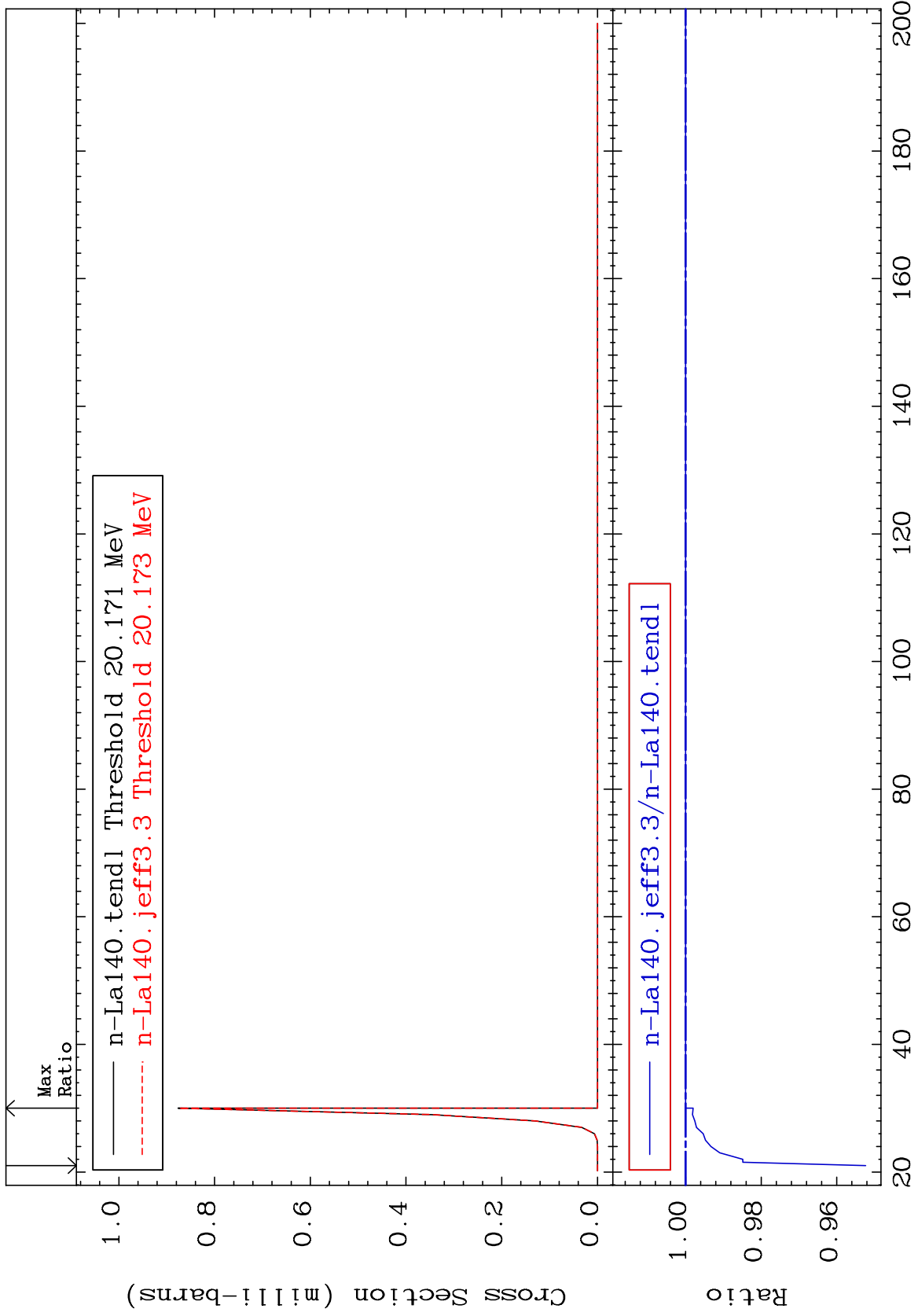




MAT 5731

(n,3n) p
Cross Section

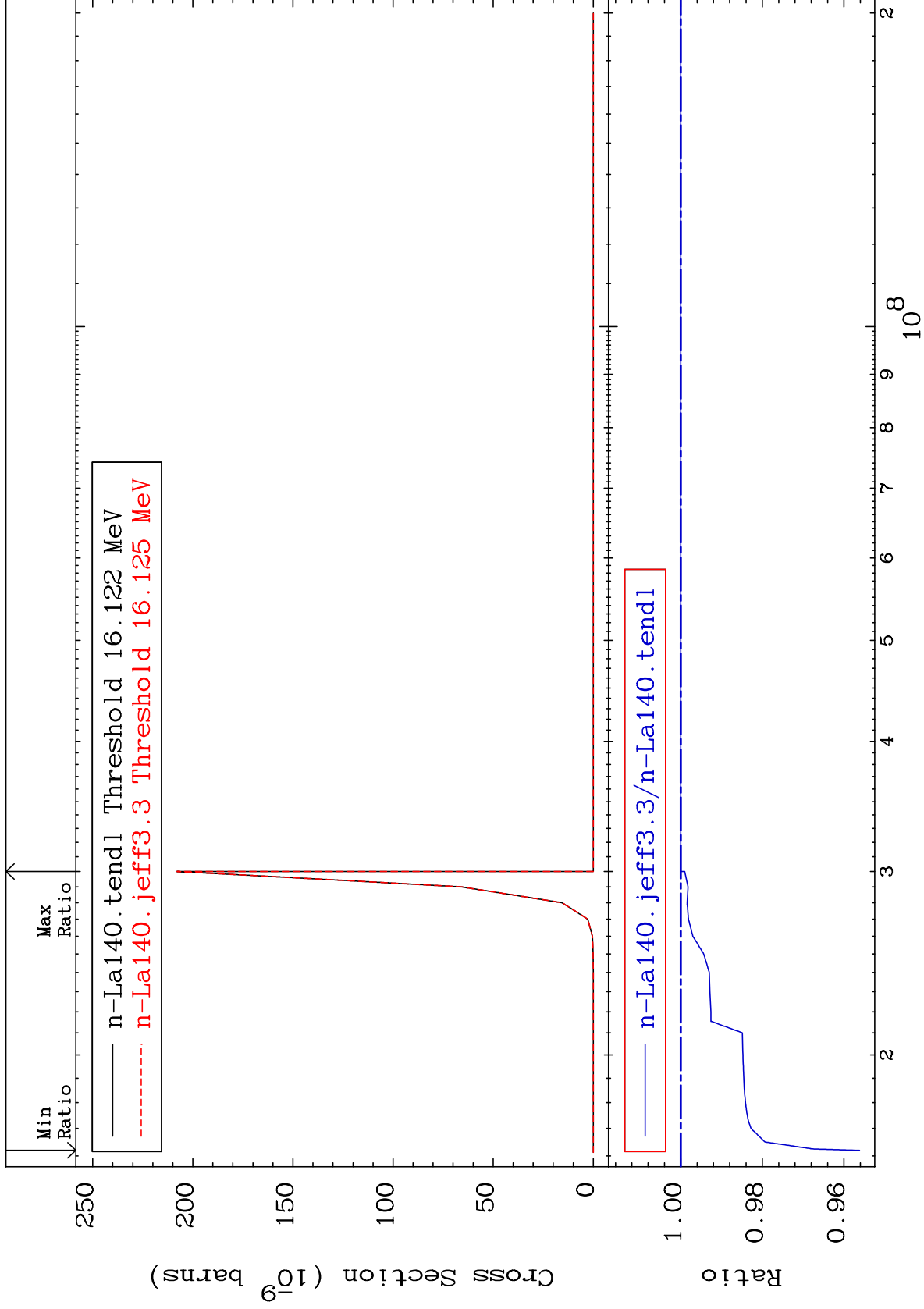
57-La-140
-4.766 To 0.000 %



MAT 5731

(n,2n) p
Cross Section

57-La-140
-4.381 To 0.000 %



18

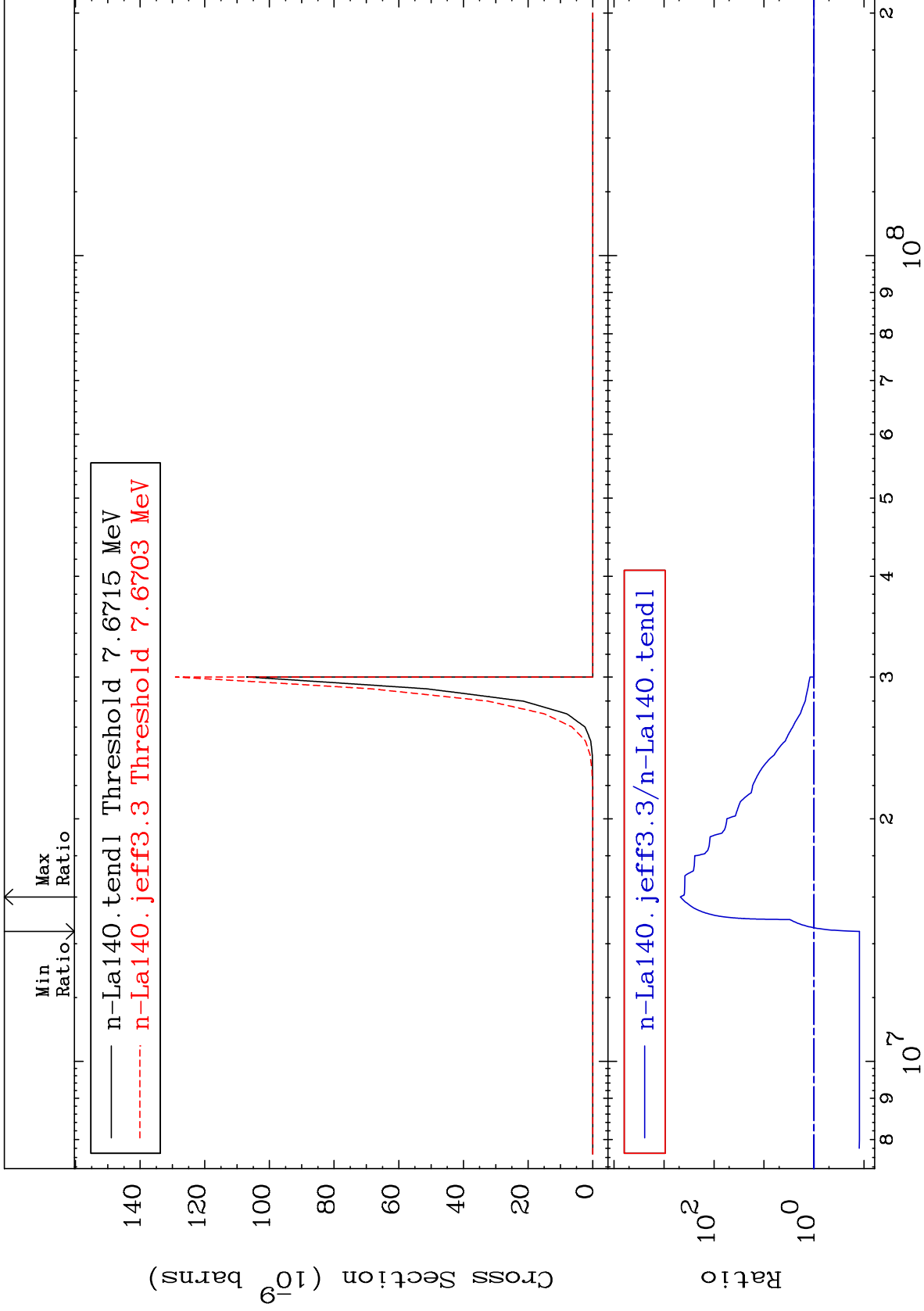
Incident Energy (eV)

57-La-140

MAT 5731

(n,n') p α
Cross Section

57-La-140
-87.63 To 9999. %



19

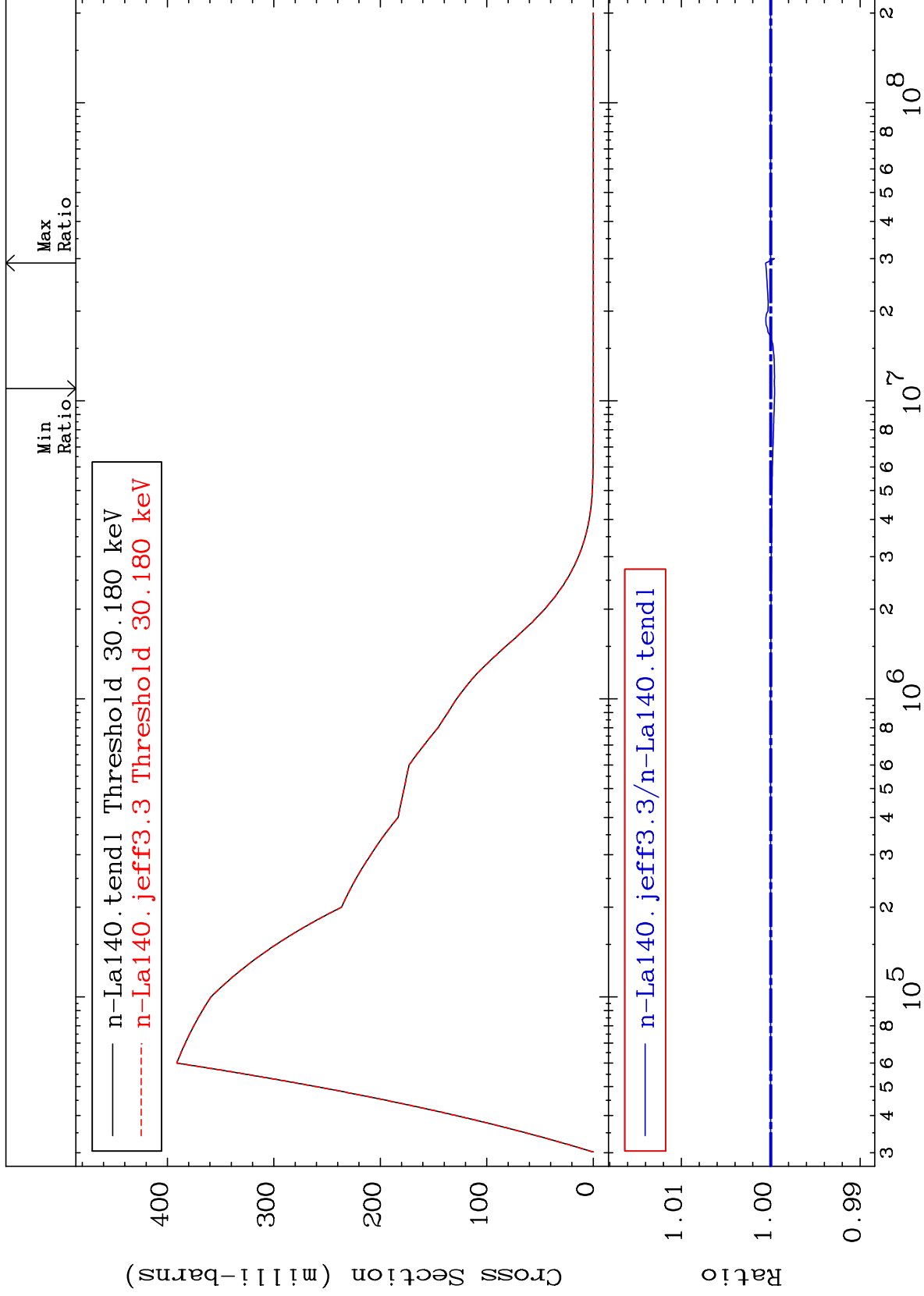
Incident Energy (eV)

57-La-140

MAT 5731

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

57-La-140
-0.043 To 0.056 %



20

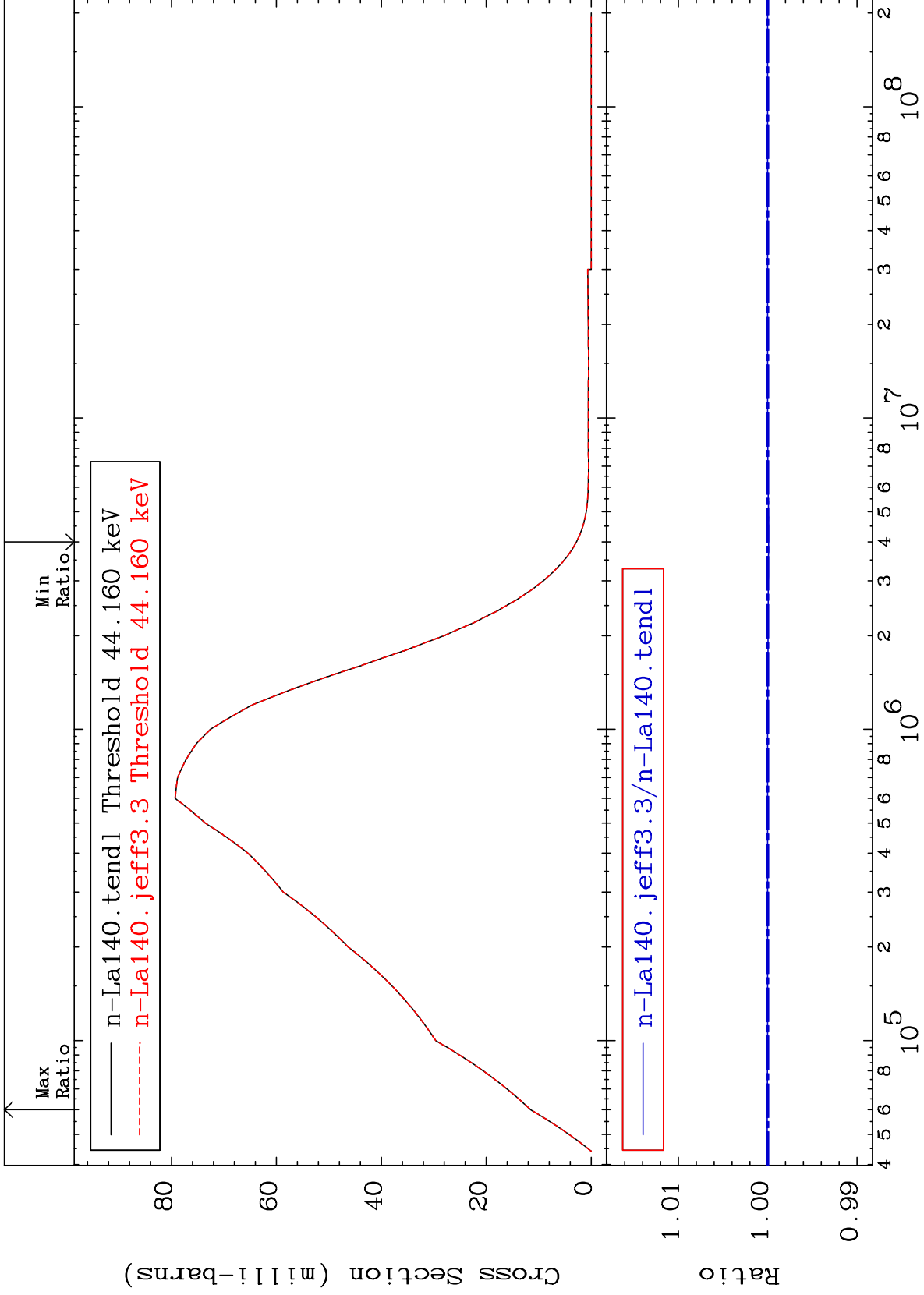
Incident Energy (eV)

57-La-140

MAT 5731

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

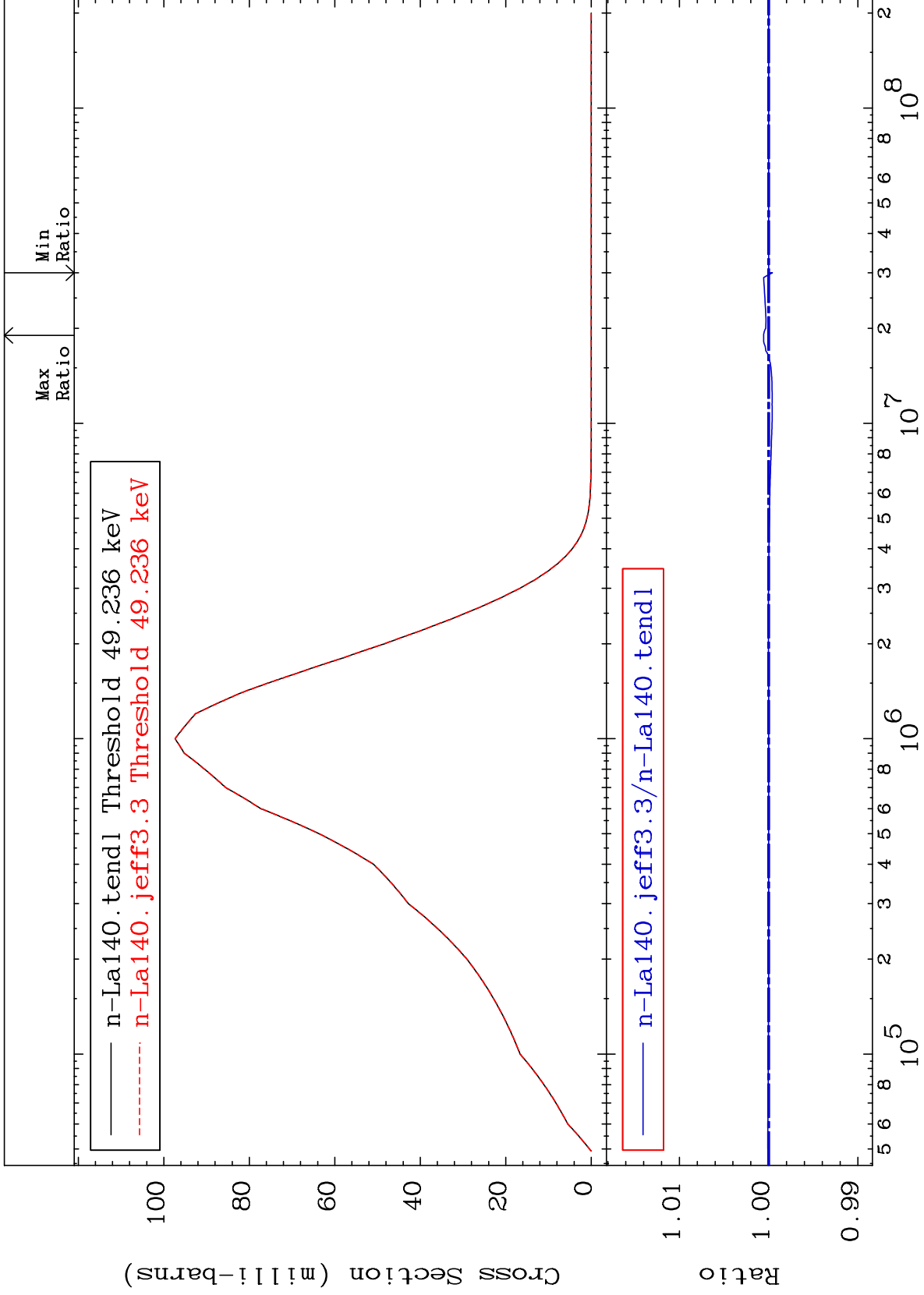
57-La-140
-0.011 To 0.005 %



MAT 5731

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

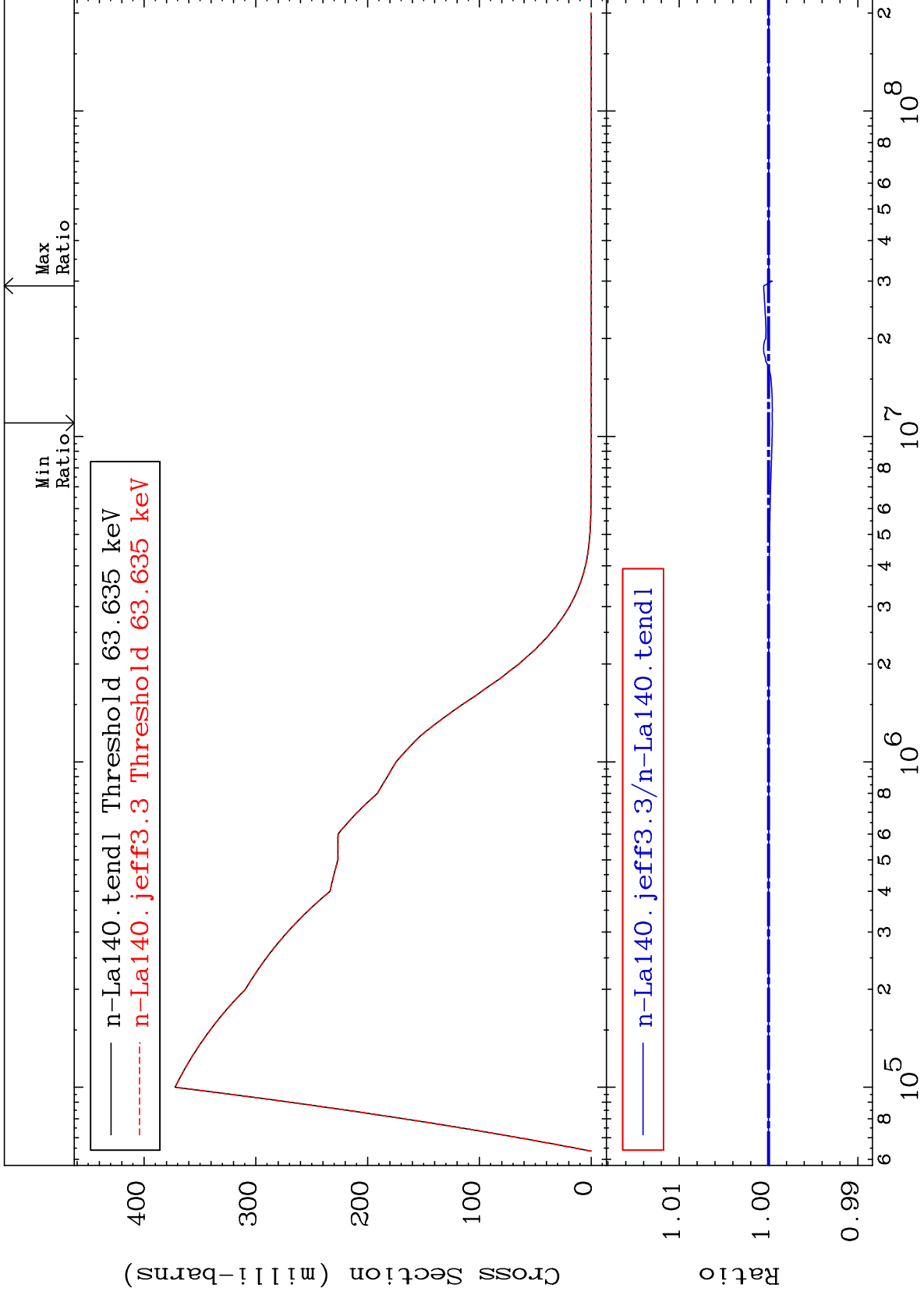
57-La-140
-0.041 To 0.057 %



MAT 5731

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

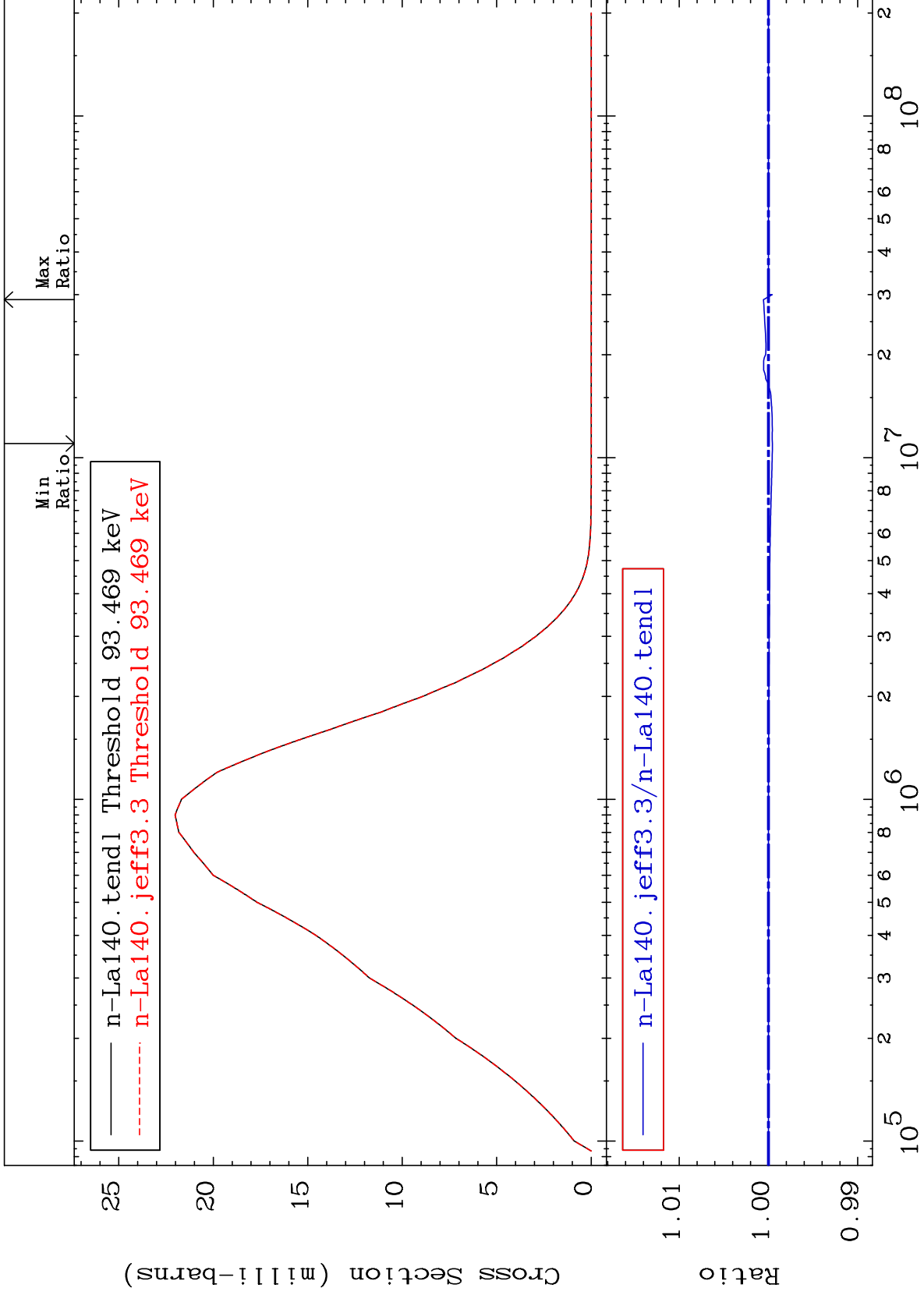
57-La-140
-0.042 To 0.056 %



MAT 5731

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

57-La-140
-0.044 To 0.055 %



24

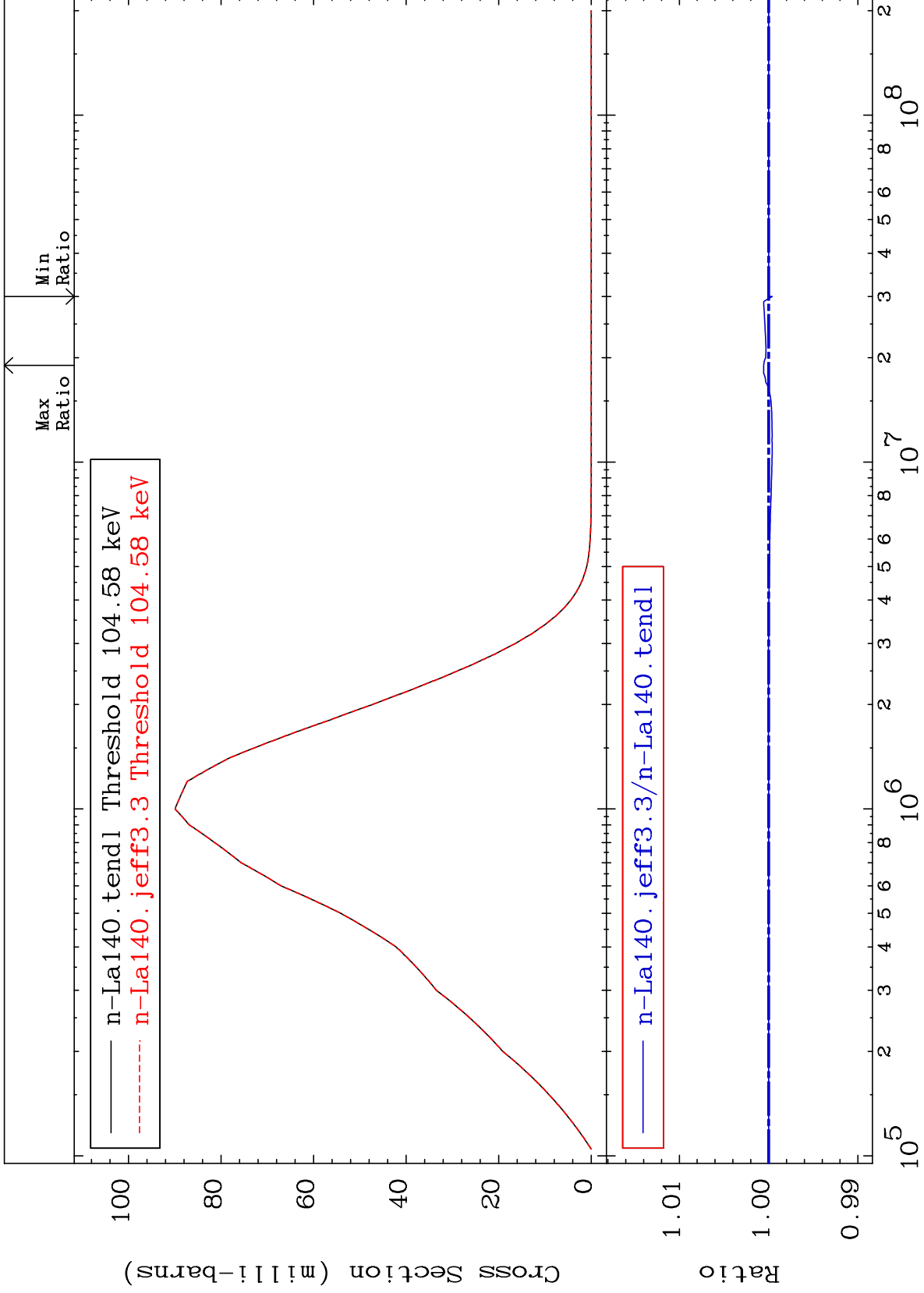
Incident Energy (eV)

57-La-140

MAT 5731

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

57-La-140
-0.041 To 0.056 %



25

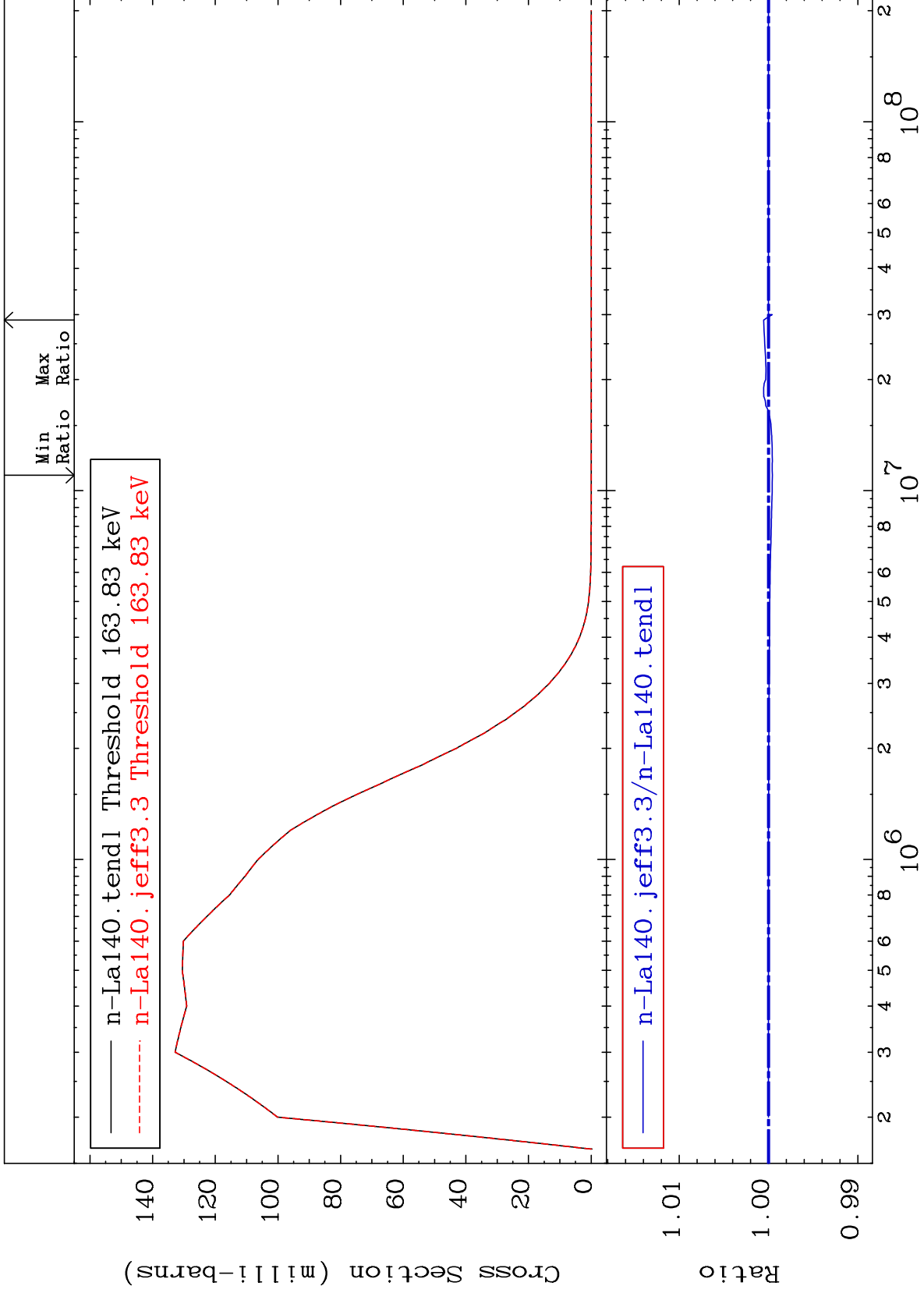
Incident Energy (eV)

57-La-140

MAT 5731

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

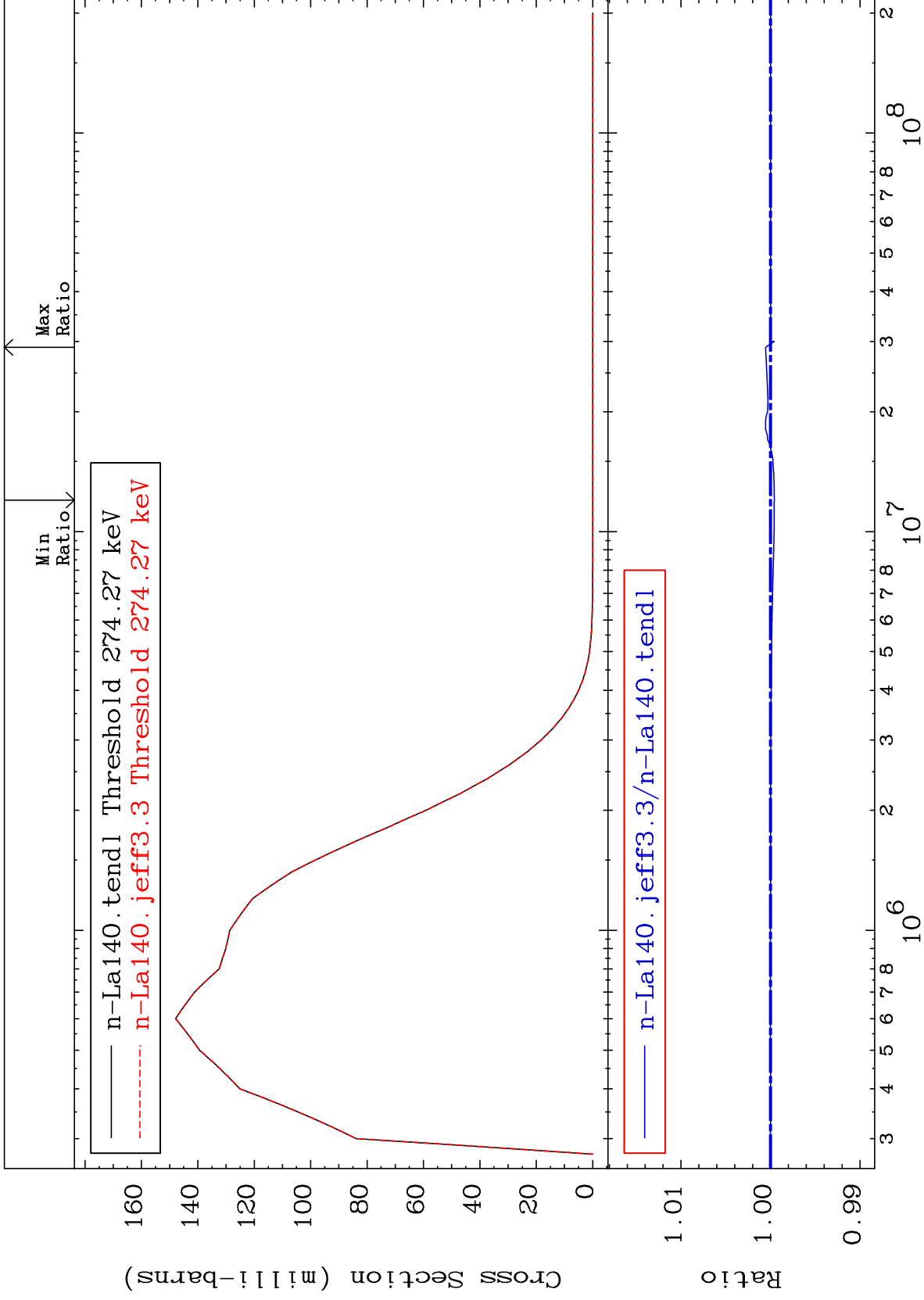
57-La-140
-0.043 To 0.055 %



MAT 5731

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

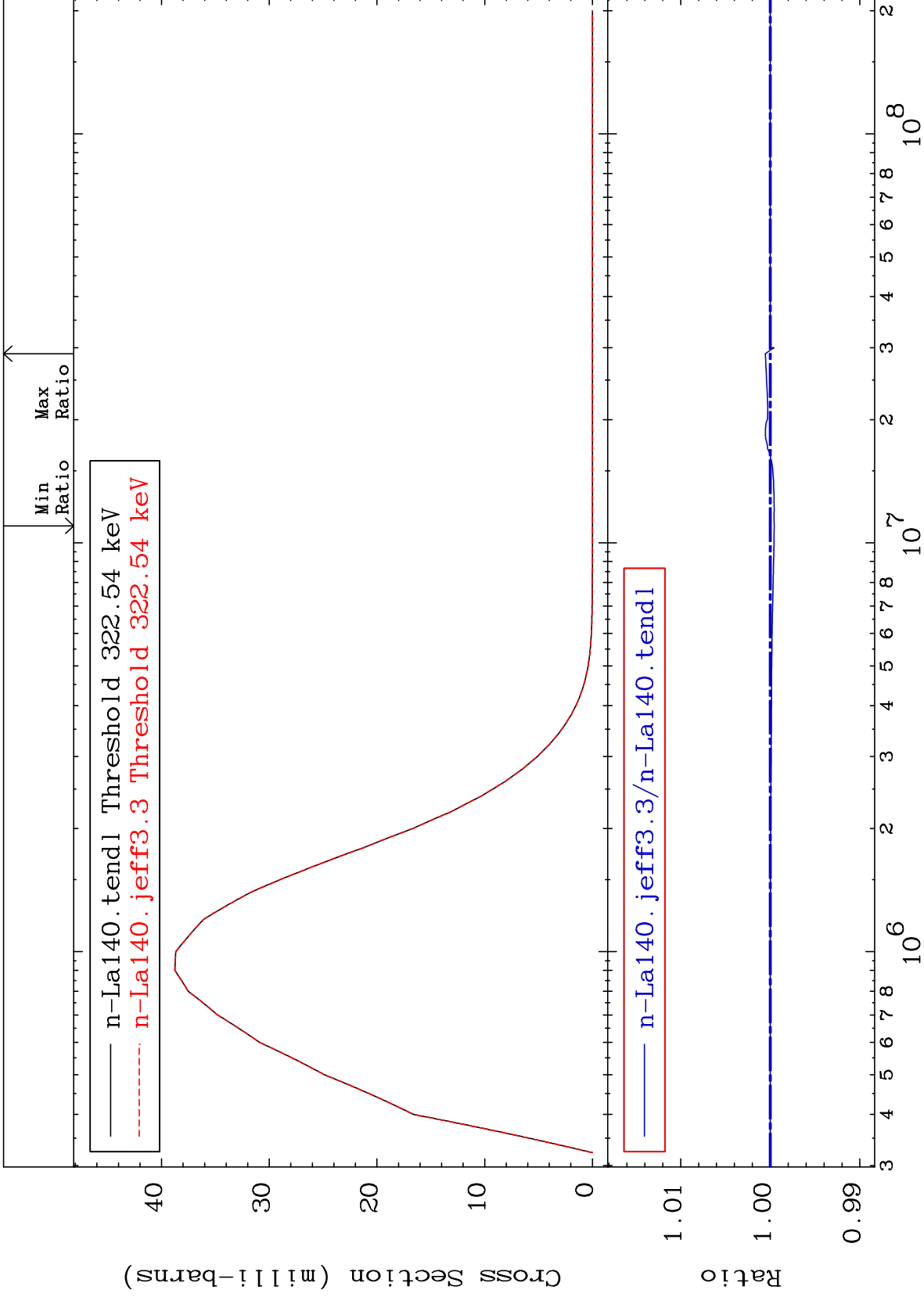
57-La-140
-0.042 To 0.056 %



MAT 5731

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

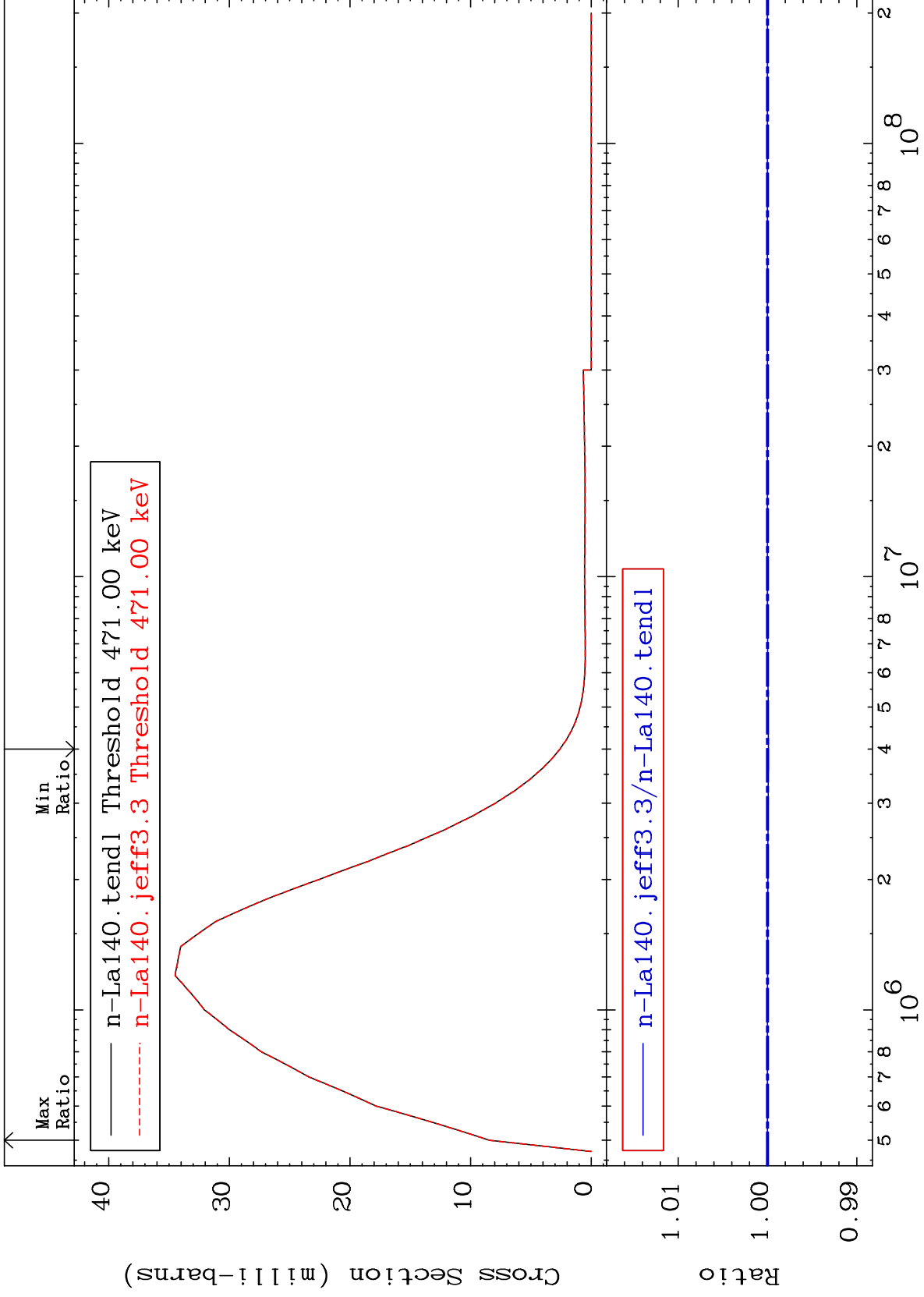
57-La-140
-0.044 To 0.055 %



MAT 5731

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

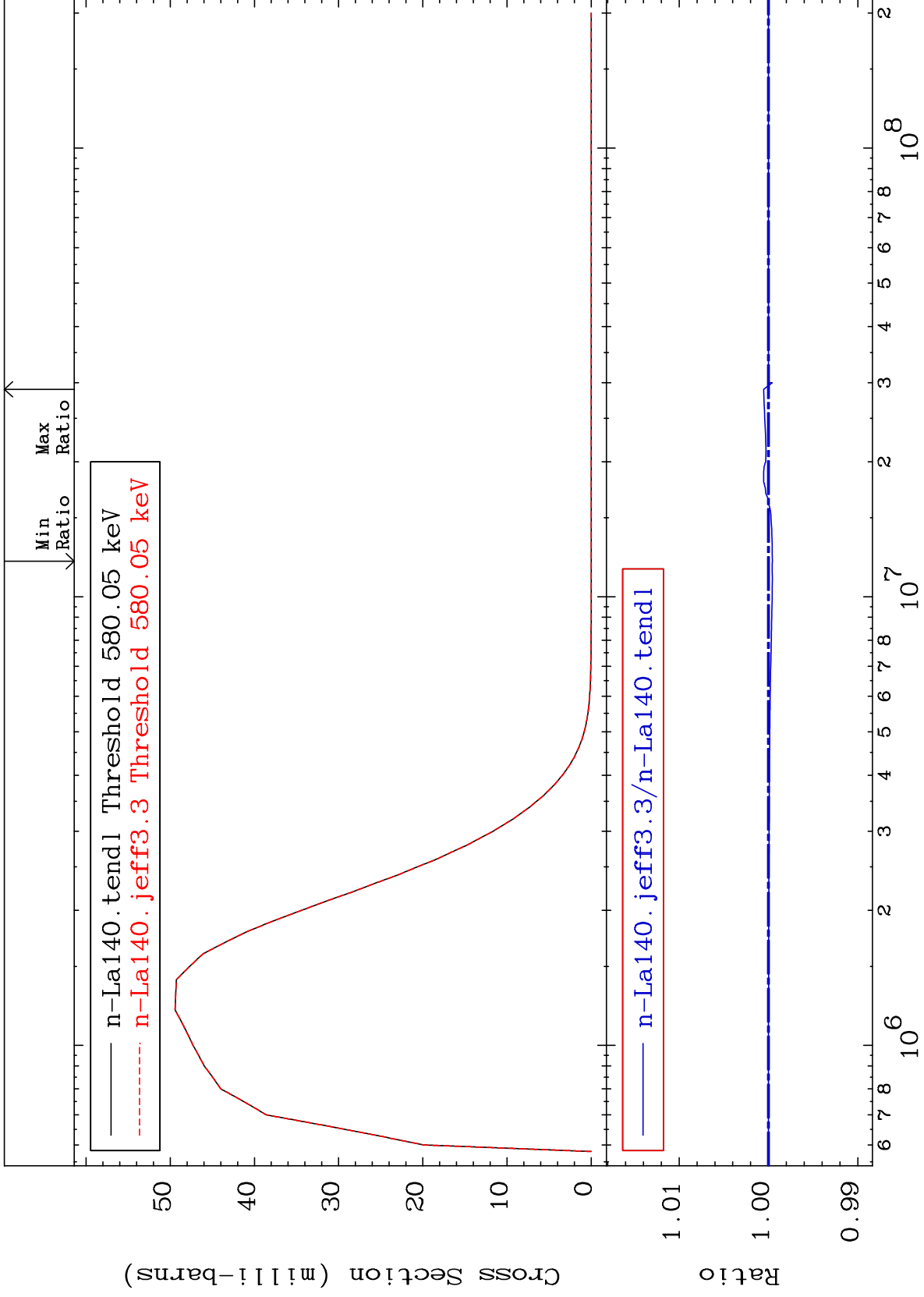
57-La-140
-0.011 To 0.000 %



MAT 5731

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

57-La-140
-0.043 To 0.055 %



30

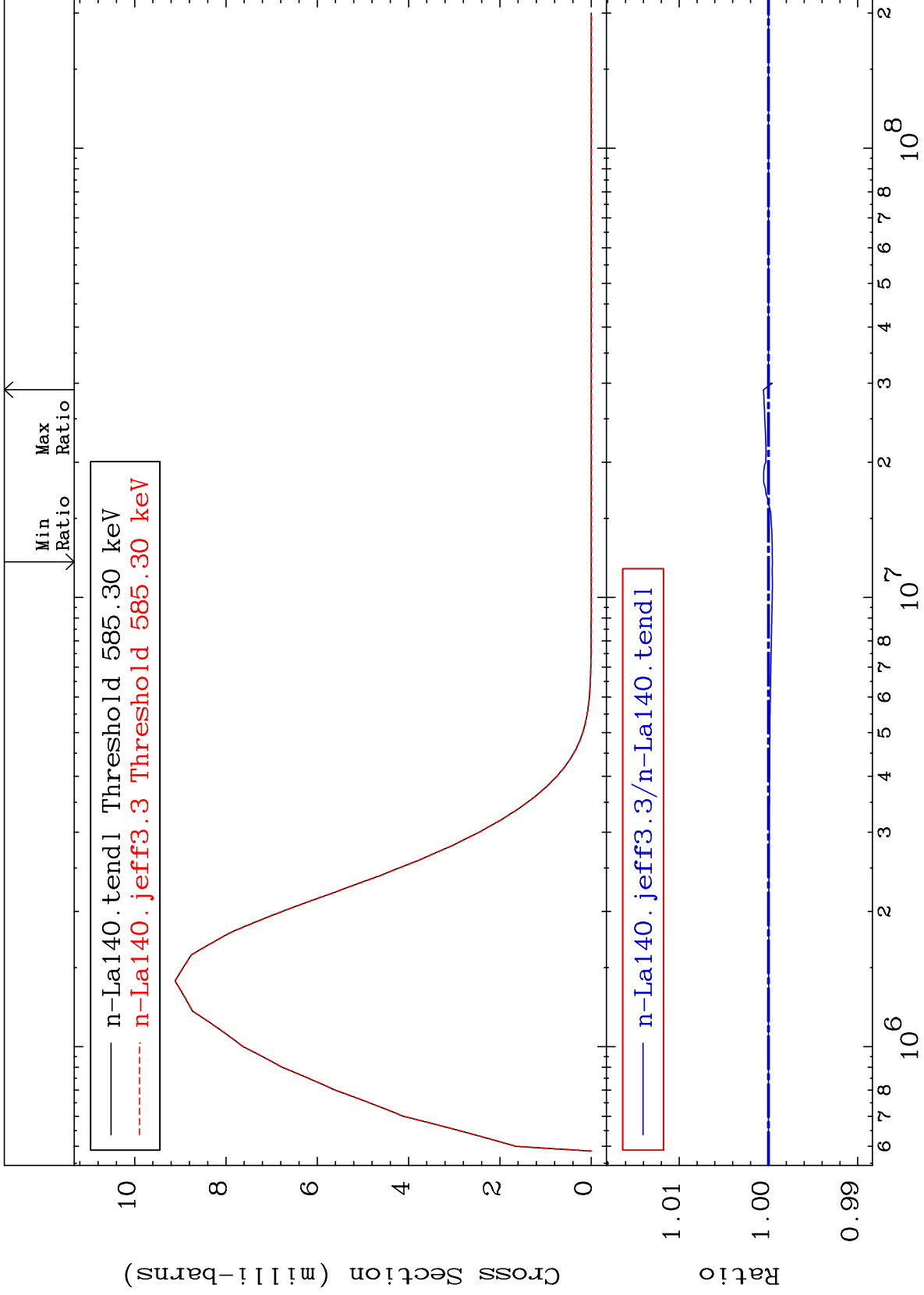
Incident Energy (eV)

57-La-140

MAT 5731

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

57-La-140
-0.044 To 0.055 %



31

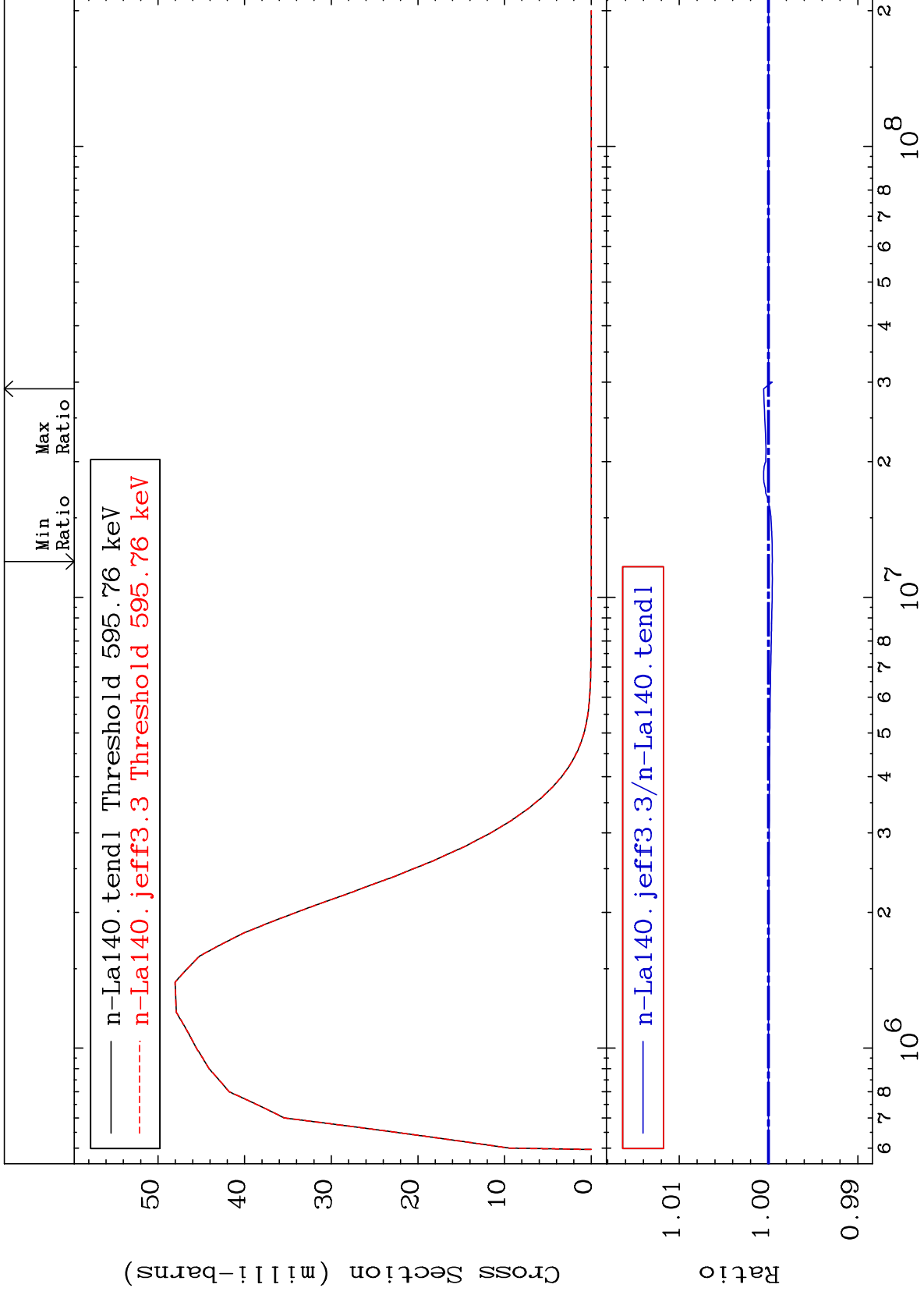
Incident Energy (eV)

57-La-140

MAT 5731

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

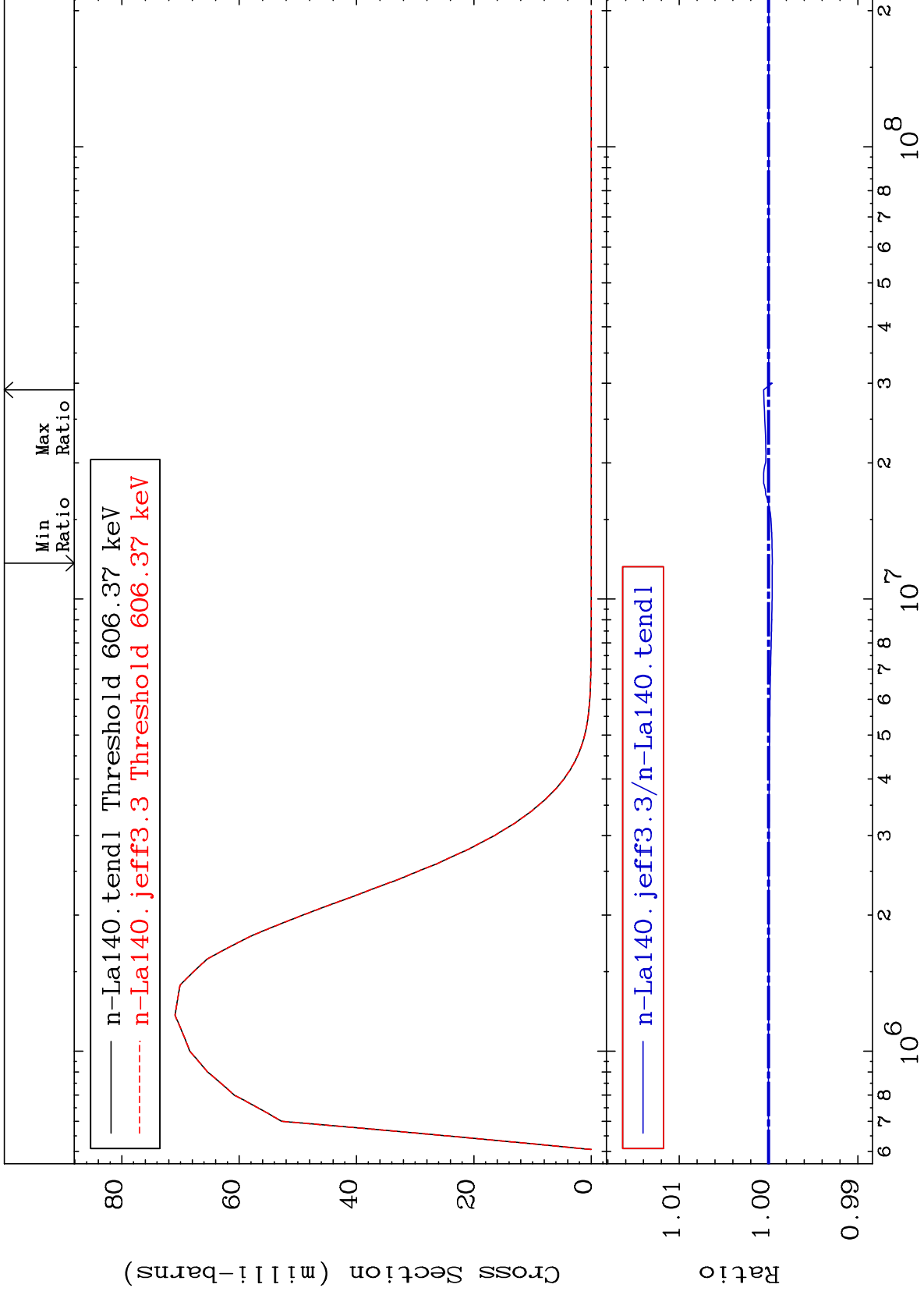
57-La-140
-0.043 To 0.055 %



MAT 5731

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

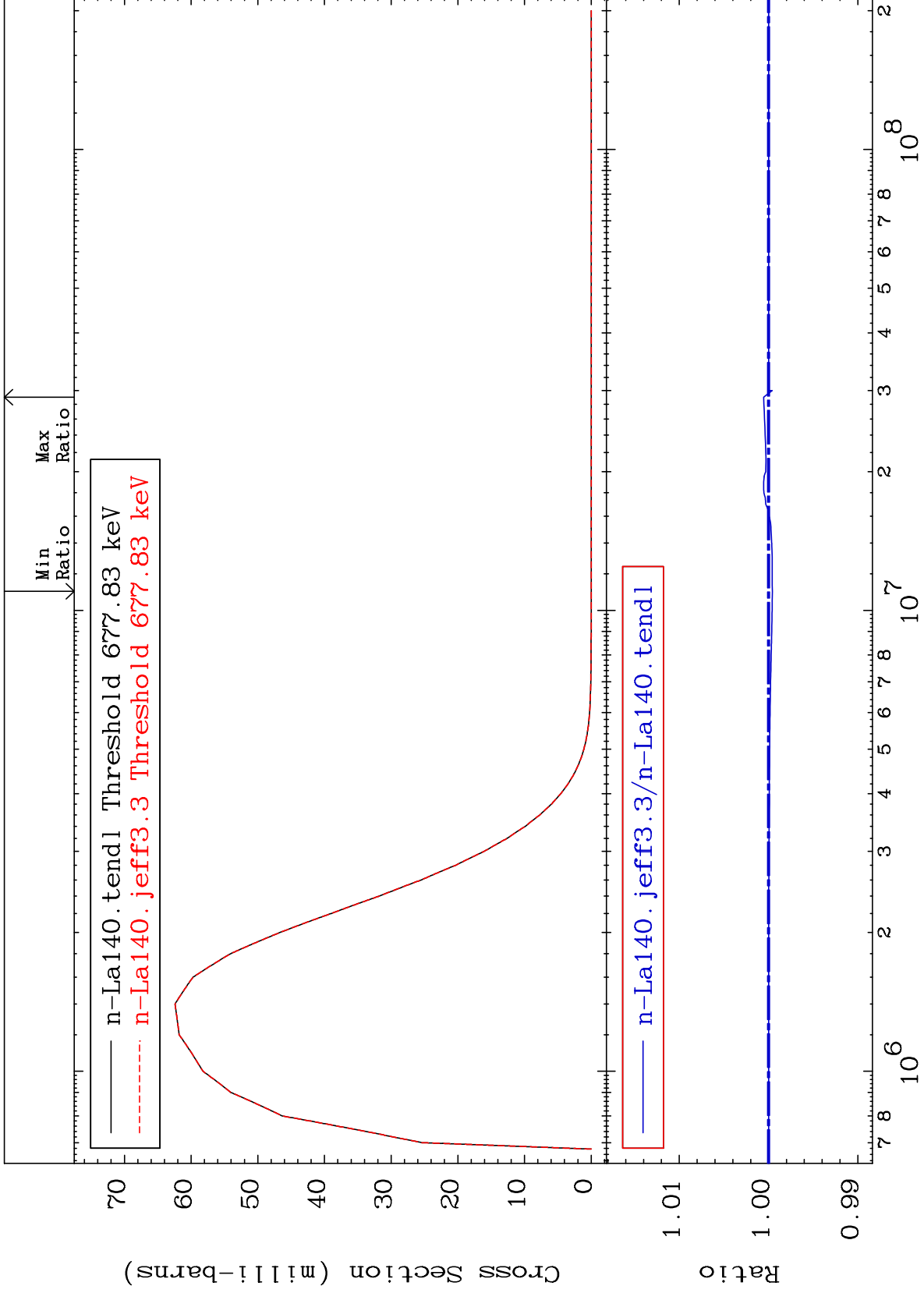
57-La-140
-0.042 To 0.056 %



MAT 5731

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

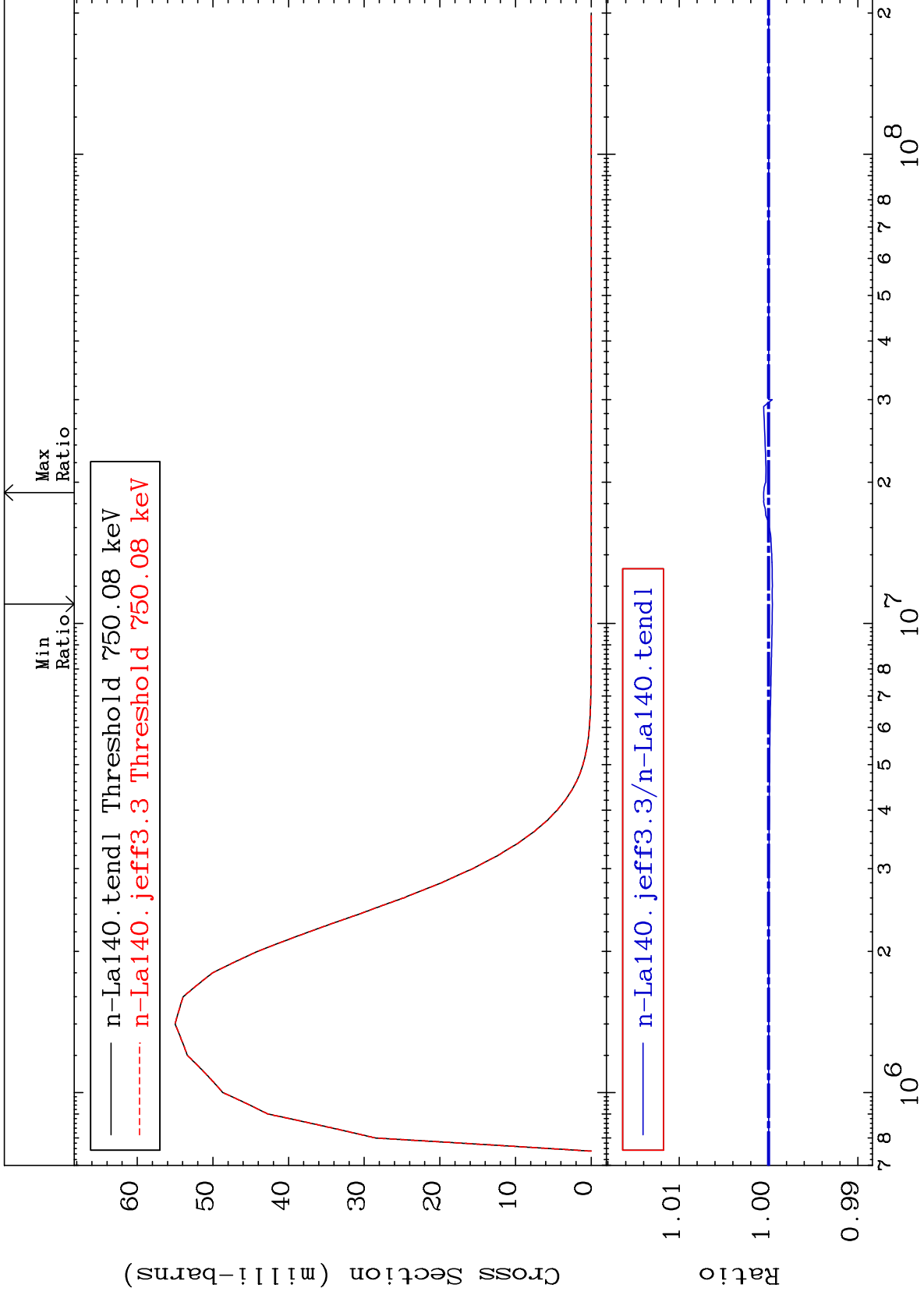
57-La-140
-0.042 To 0.056 %



MAT 5731

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

57-La-140
-0.042 To 0.056 %



35

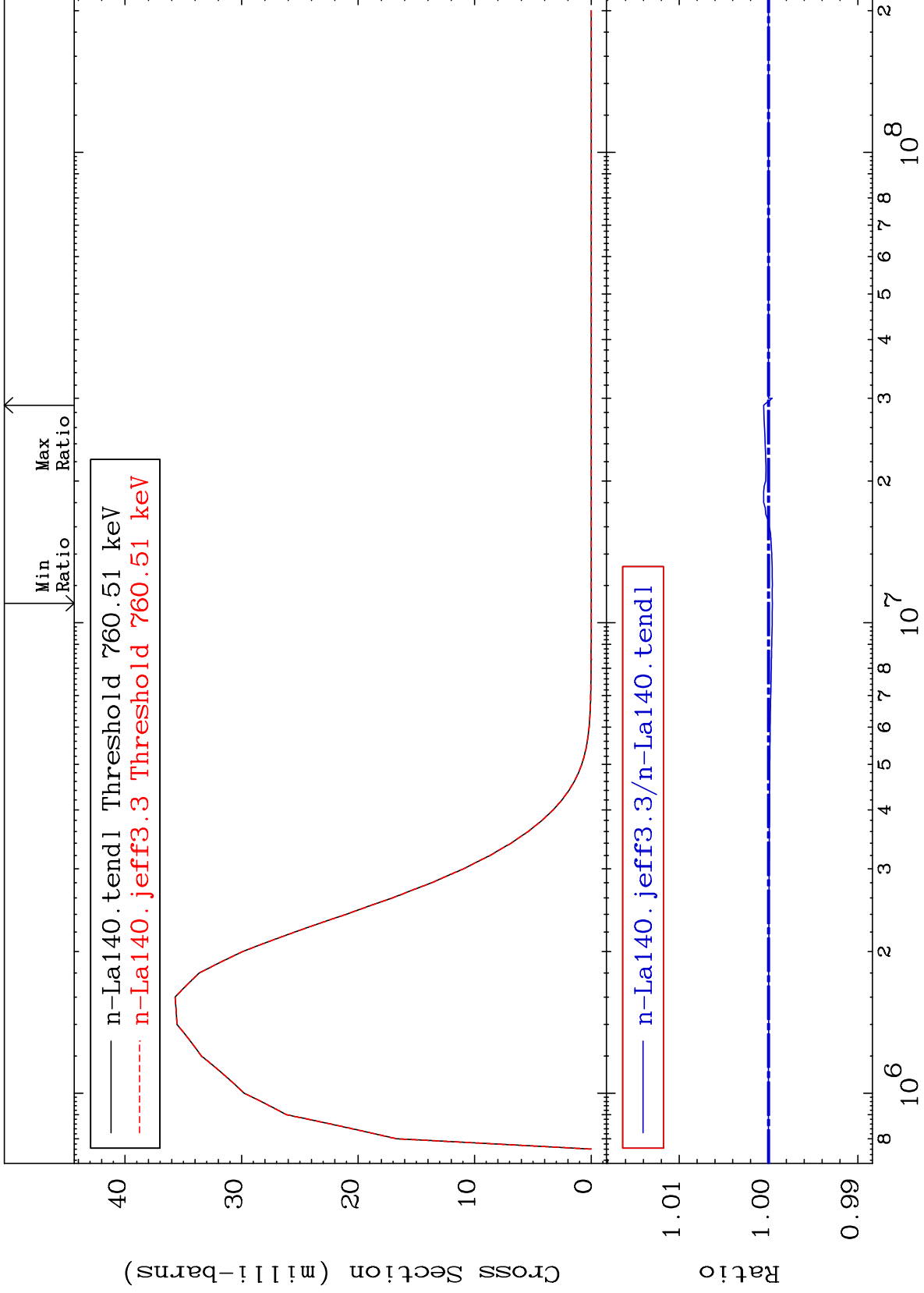
Incident Energy (eV)

57-La-140

MAT 5731

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

57-La-140
-0.043 To 0.055 %



36

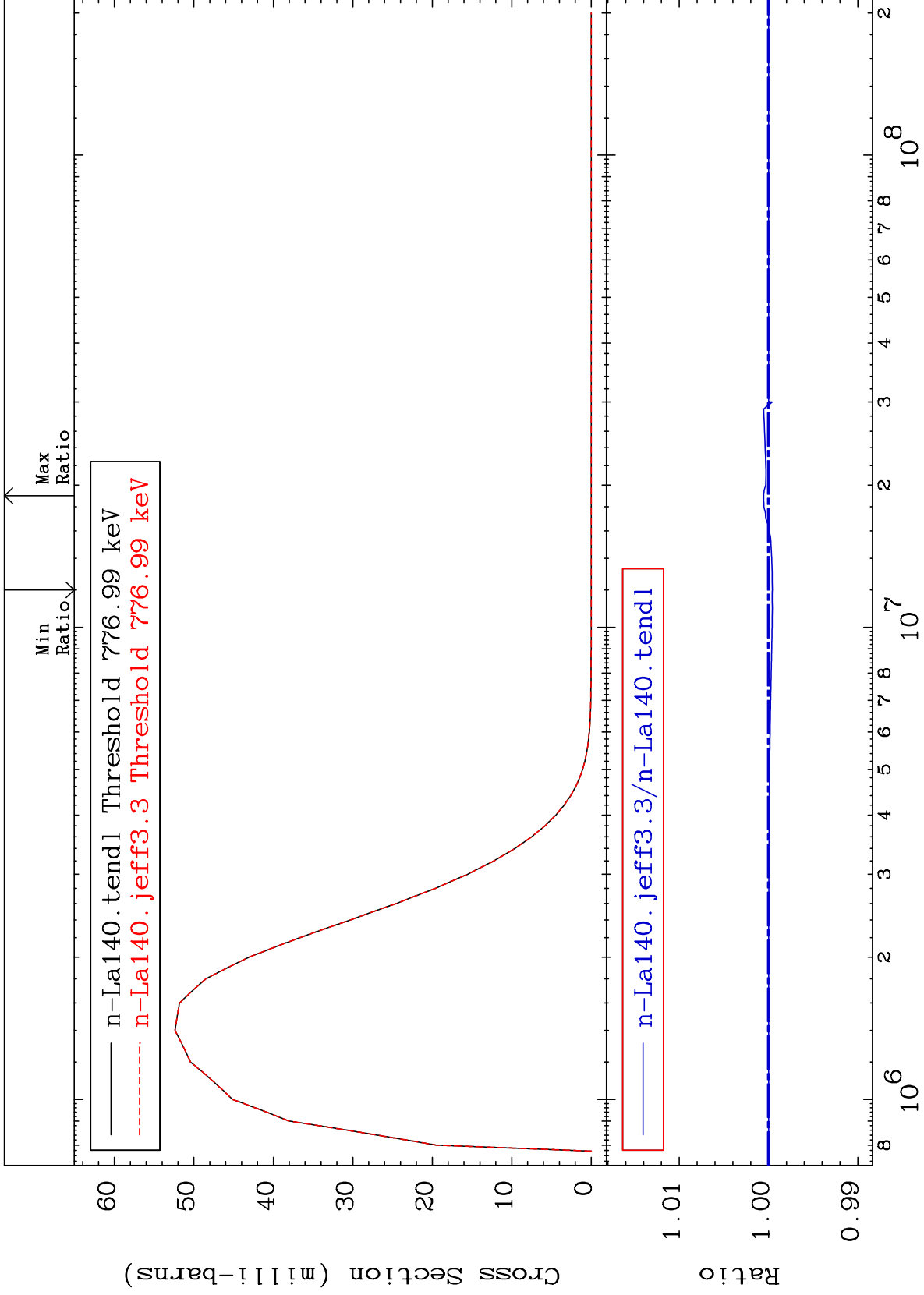
Incident Energy (eV)

57-La-140

MAT 5731

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

57-La-140
-0.042 To 0.056 %



37

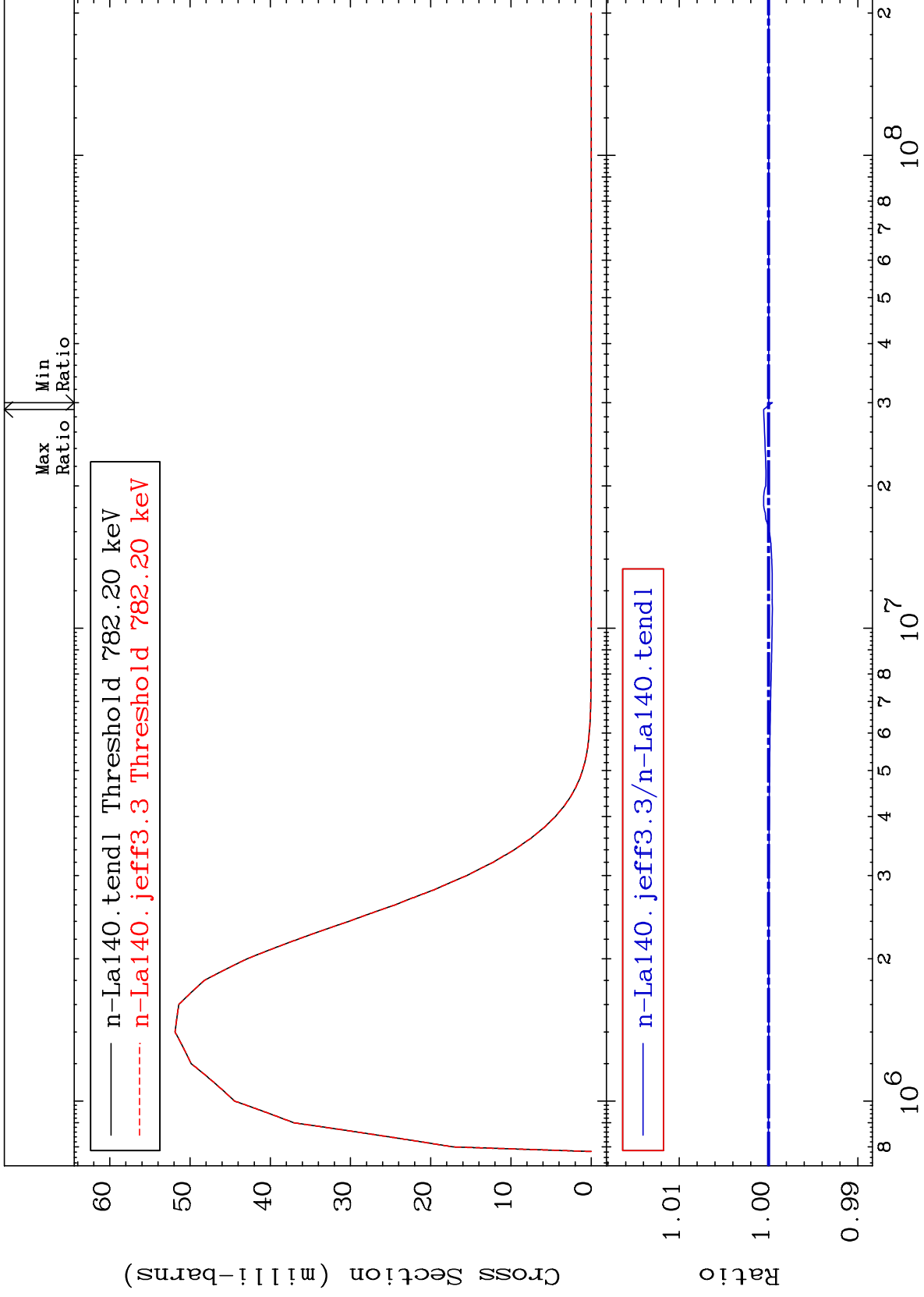
Incident Energy (eV)

57-La-140

MAT 5731

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

57-La-140
-0.042 To 0.056 %



38

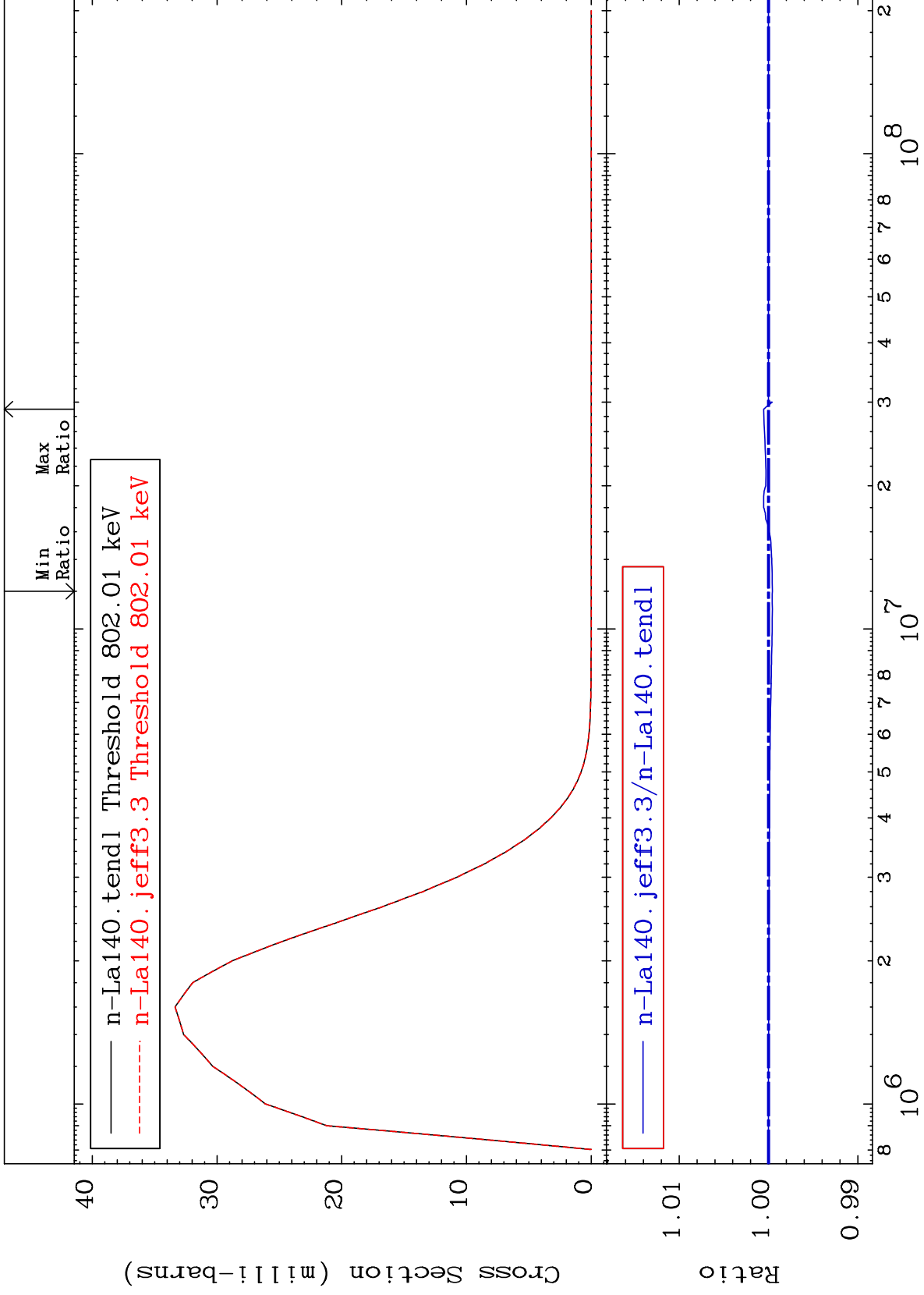
Incident Energy (eV)

57-La-140

MAT 5731

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

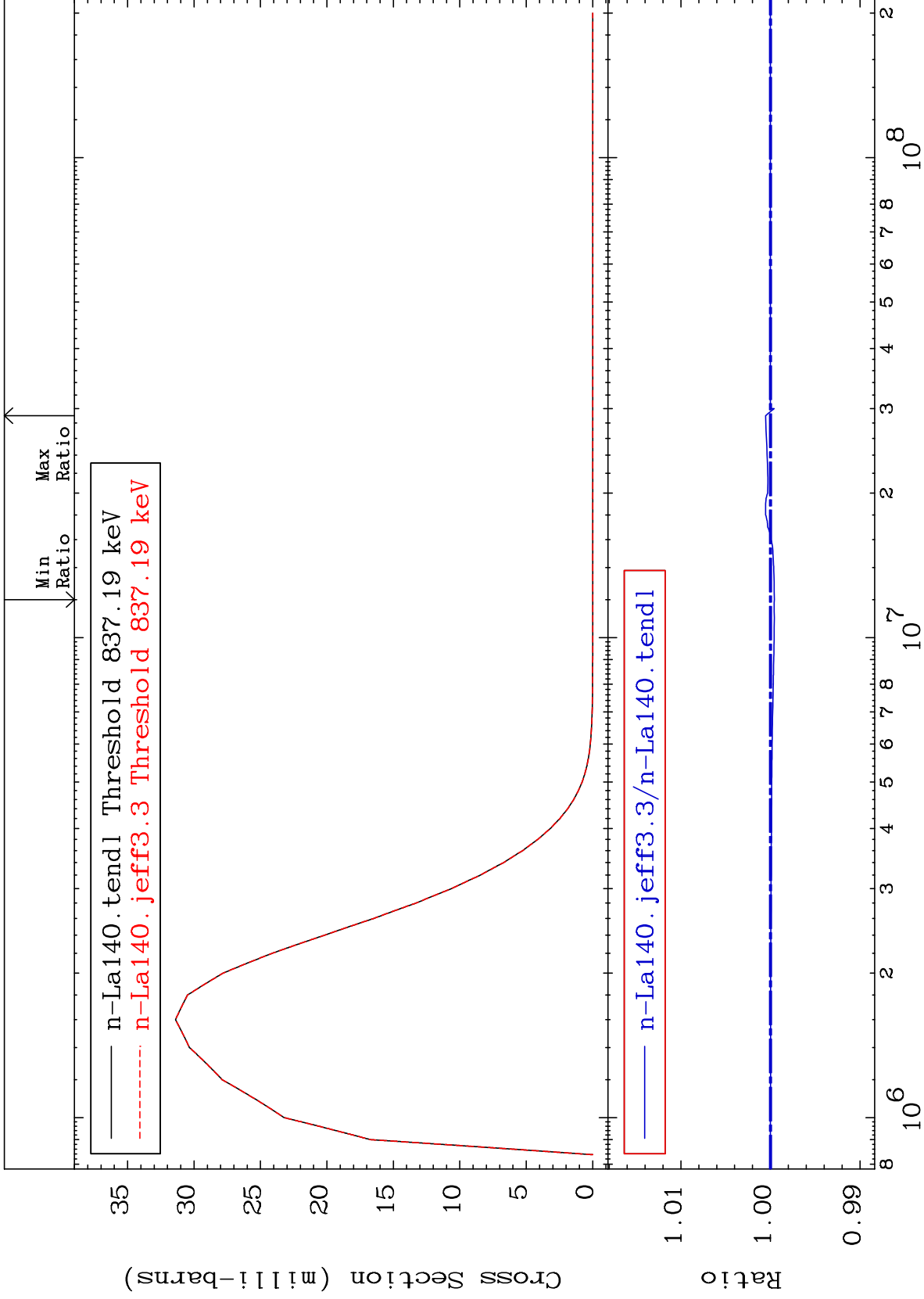
57-La-140
-0.043 To 0.055 %



MAT 5731

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

57-La-140
-0.043 To 0.055 %



40

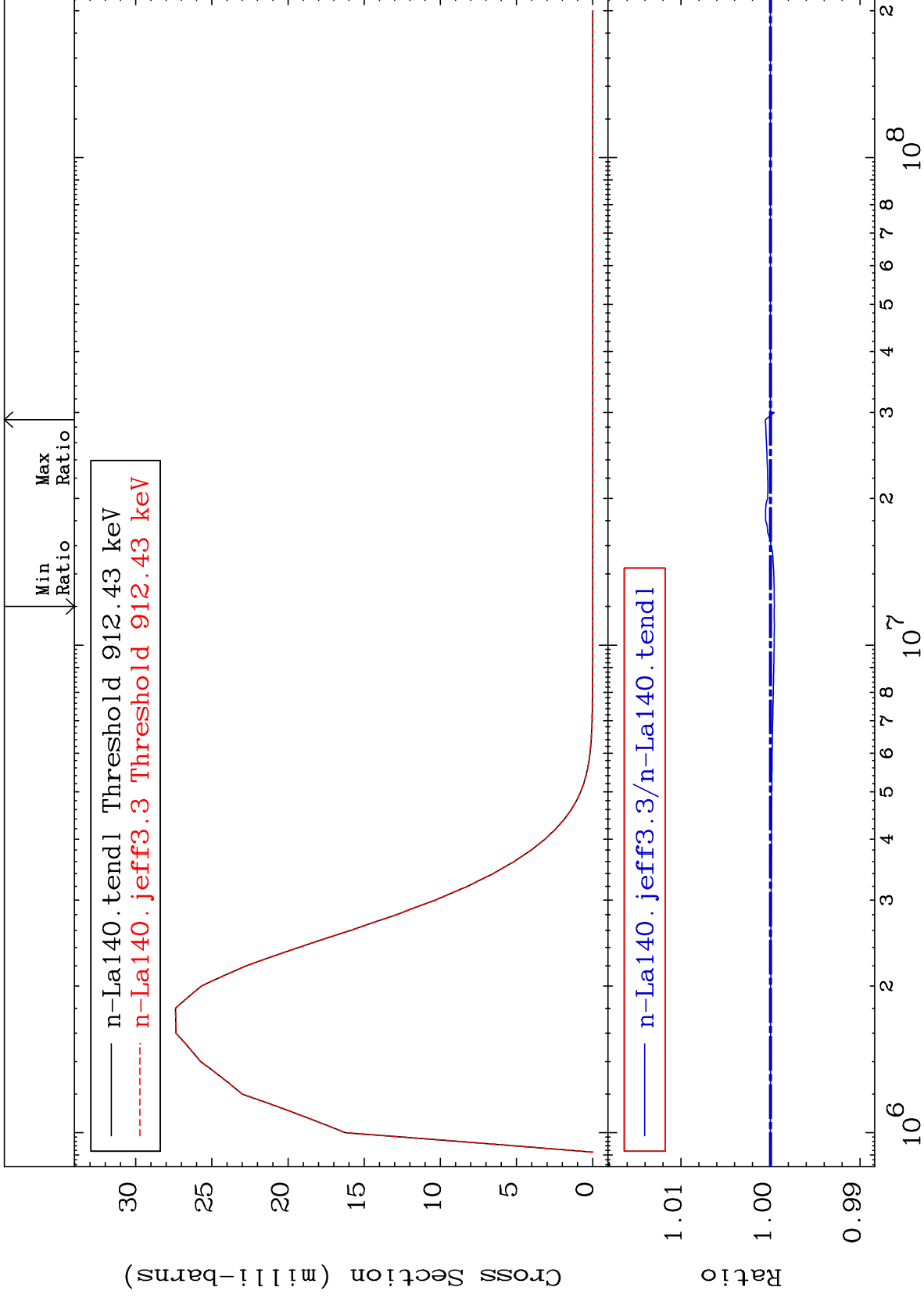
Incident Energy (eV)

57-La-140

MAT 5731

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

57-La-140
-0.043 To 0.055 %



41

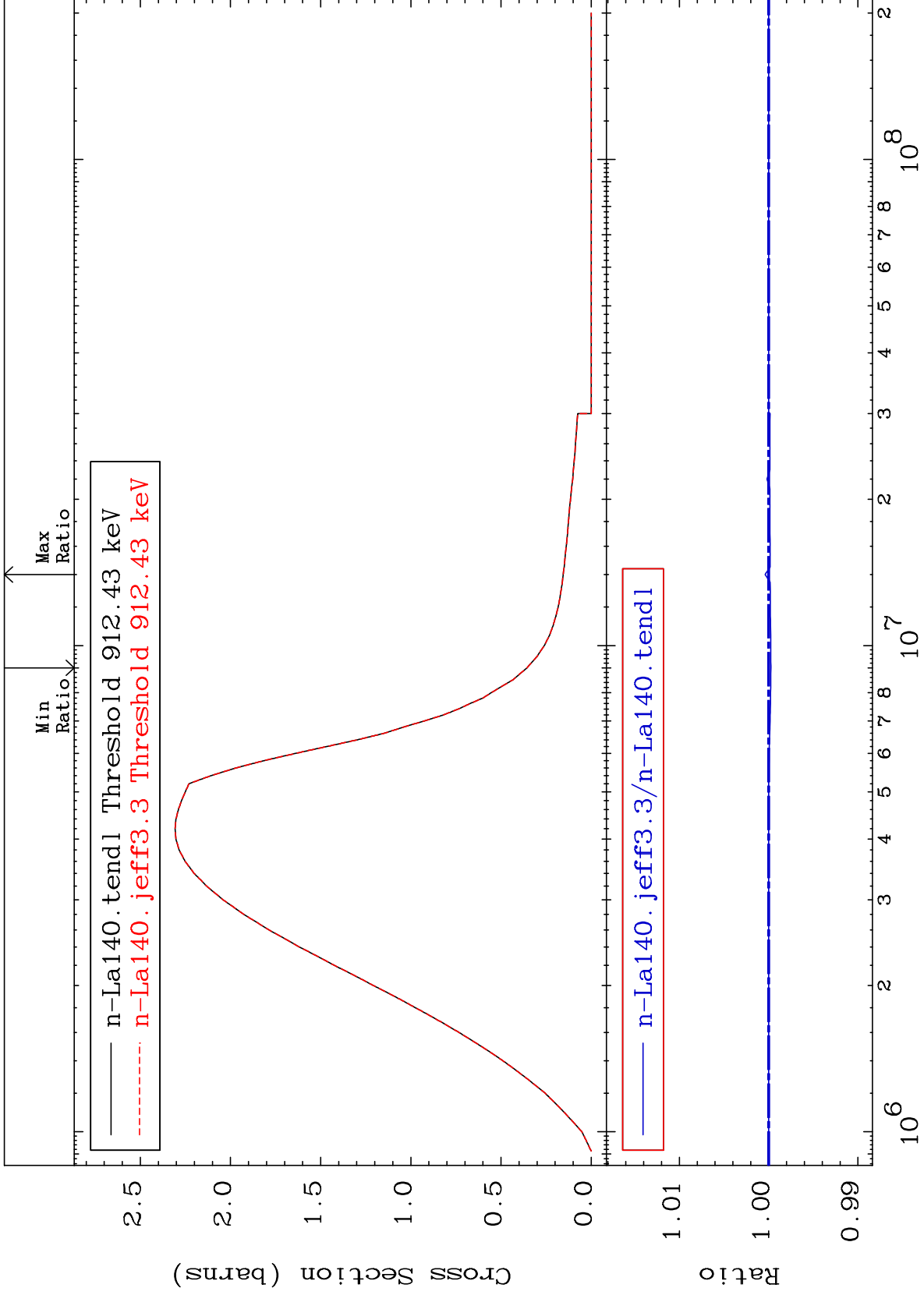
Incident Energy (eV)

57-La-140

MAT 5731

(n, n') Continuum
Cross Section

57-La-140
-0.024 To 0.040 %



42

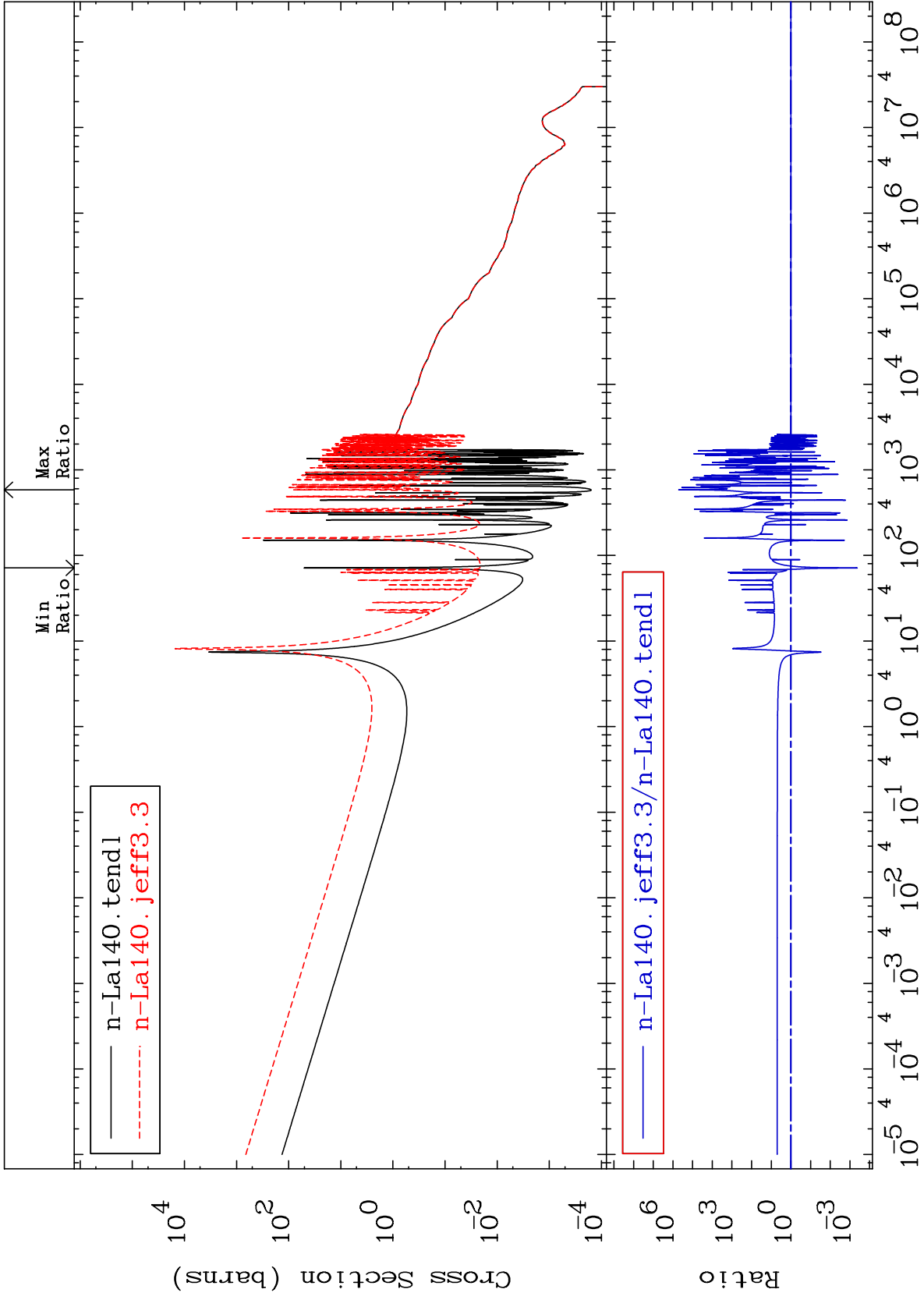
Incident Energy (eV)

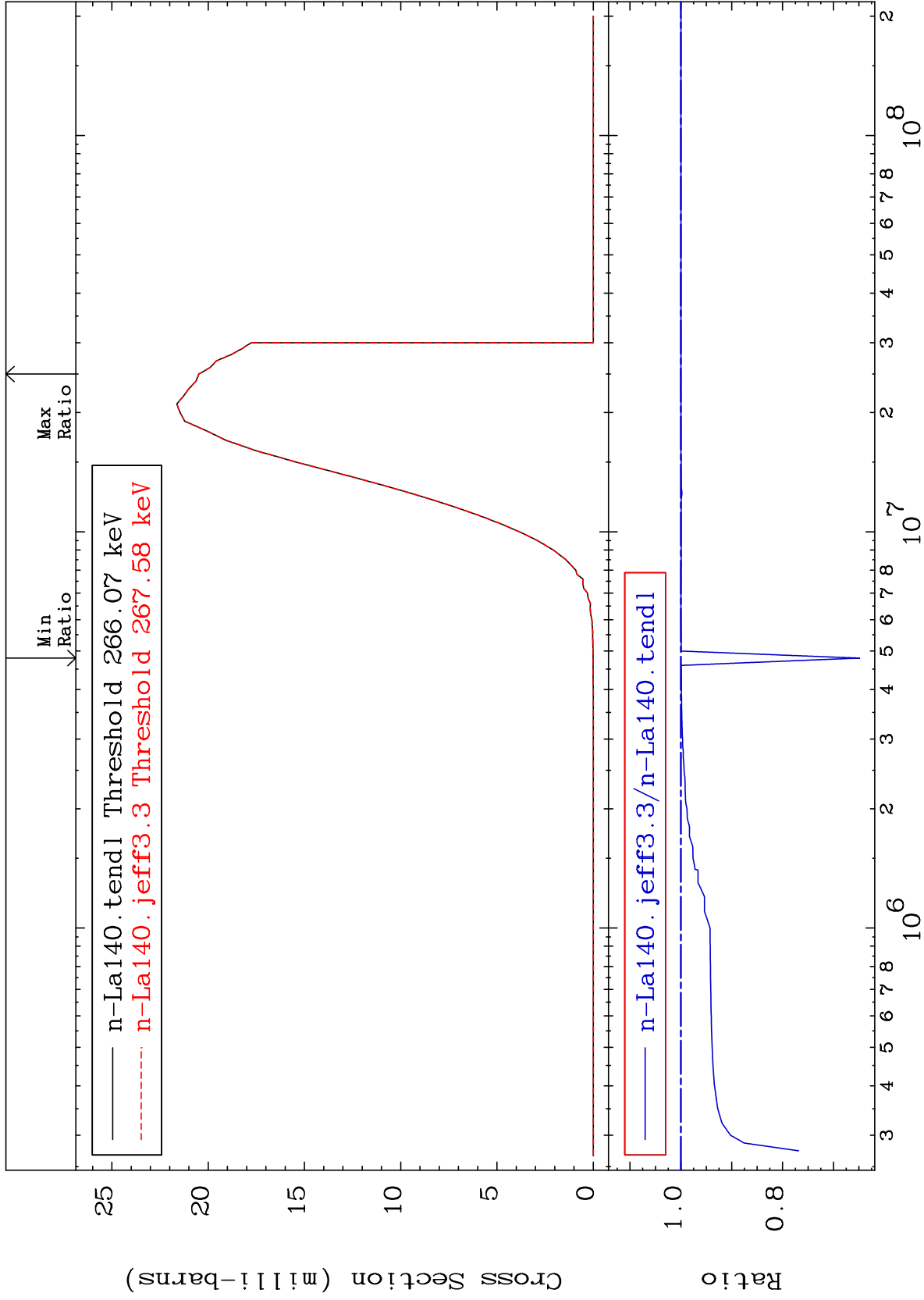
57-La-140

MAT 5731

(n, γ)
Cross Section

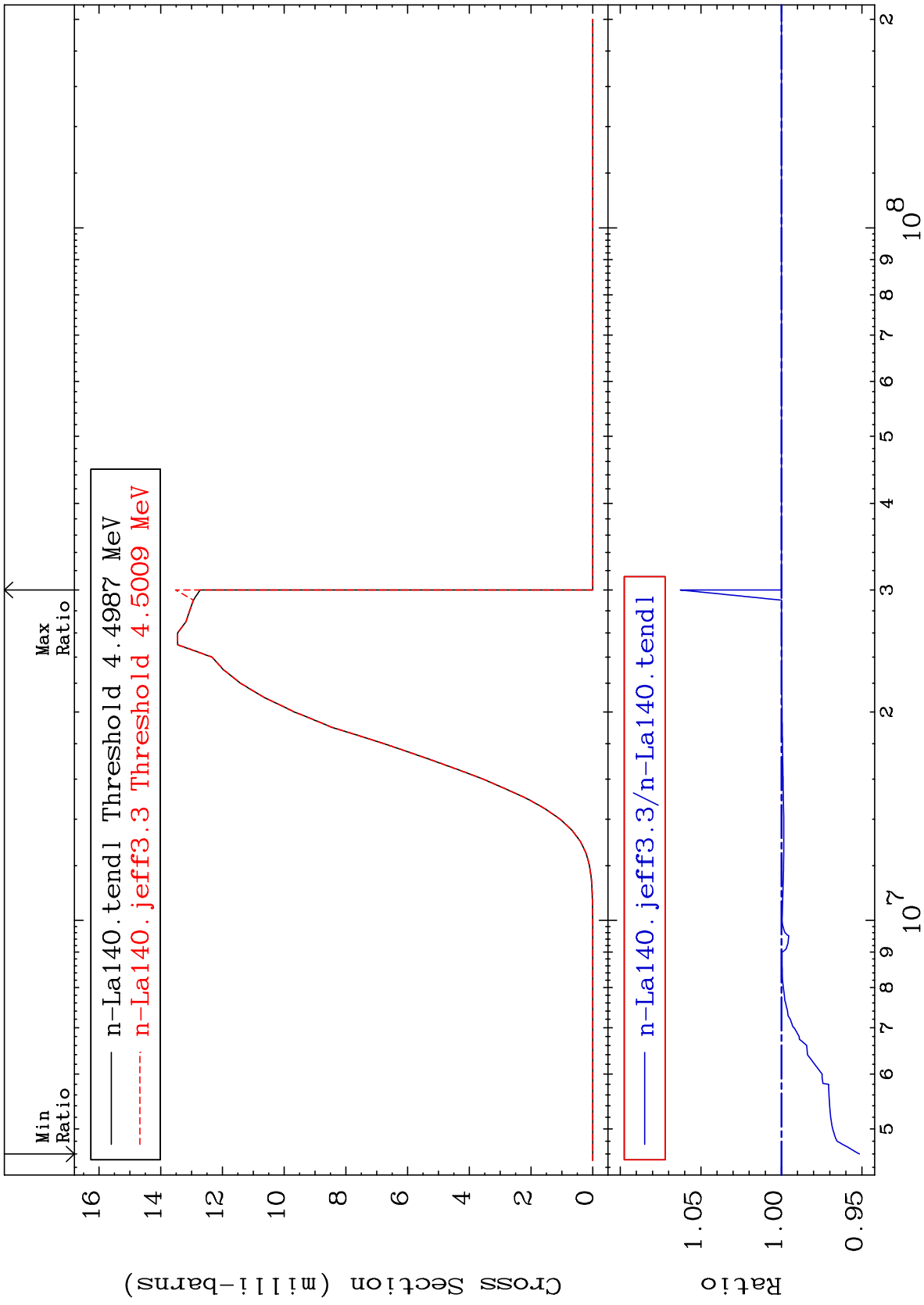
57-La-140
-99.96 To 9999. %





MAT 5731

(n, d)
Cross Section
57-La-140
-4.843 To 6.273 %



45

57-La-140

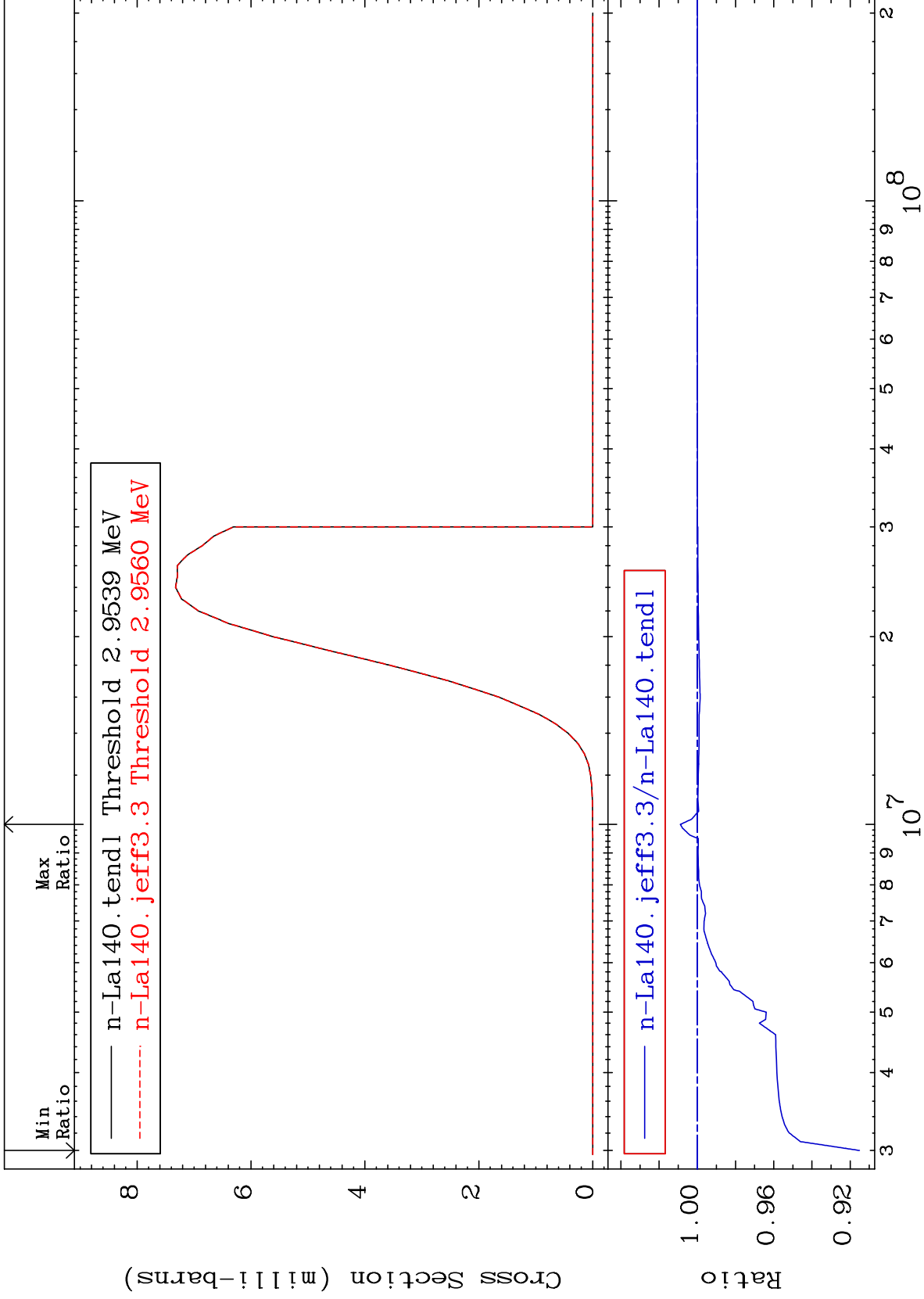
57-La-140

MAT 5731

57-La-140

-8.484 To 0.887 %

(n, t)
Cross Section



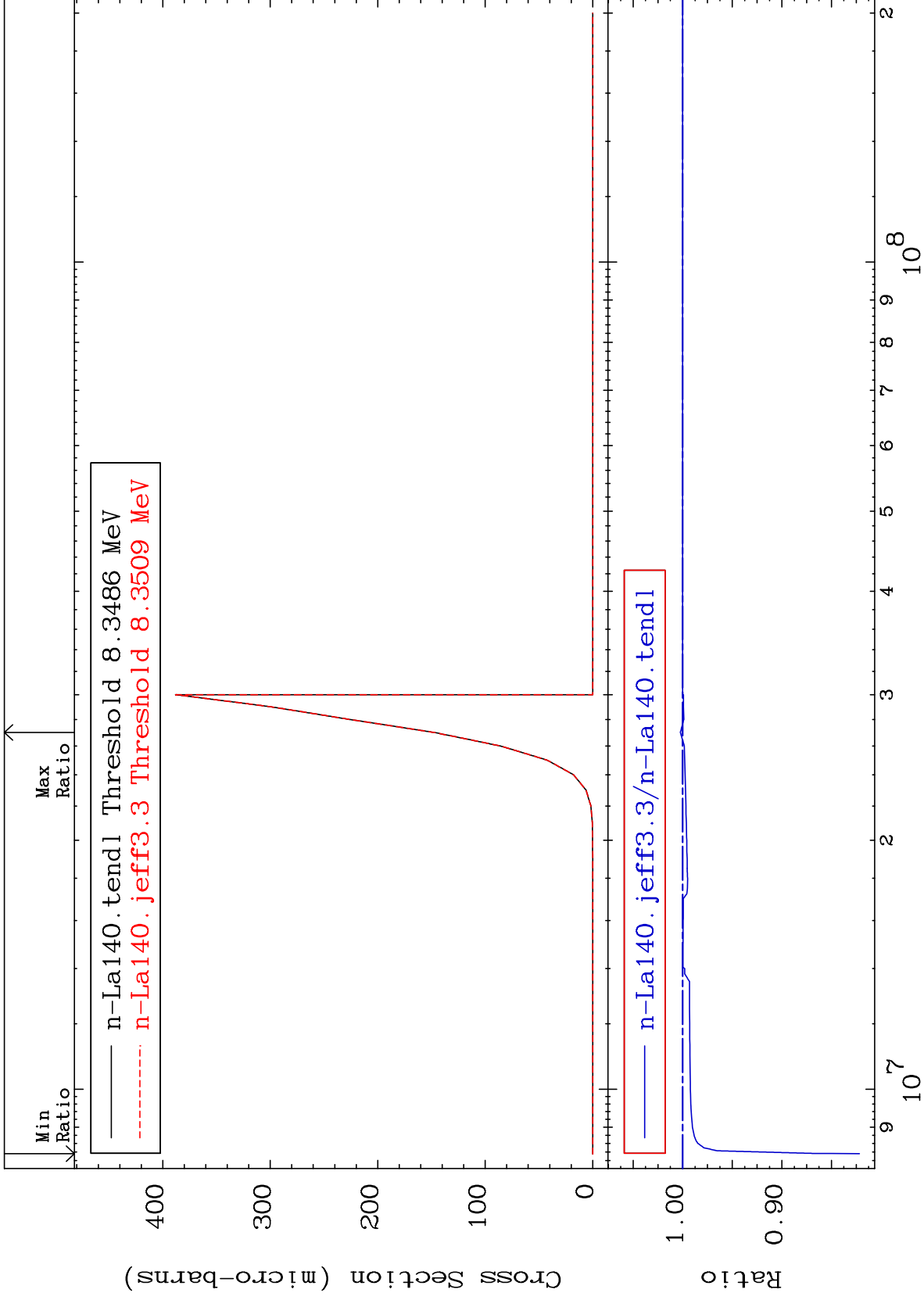
MAT 5731

(n, He-3)

57-La-140

Cross Section

-17.82 To 0.237 %



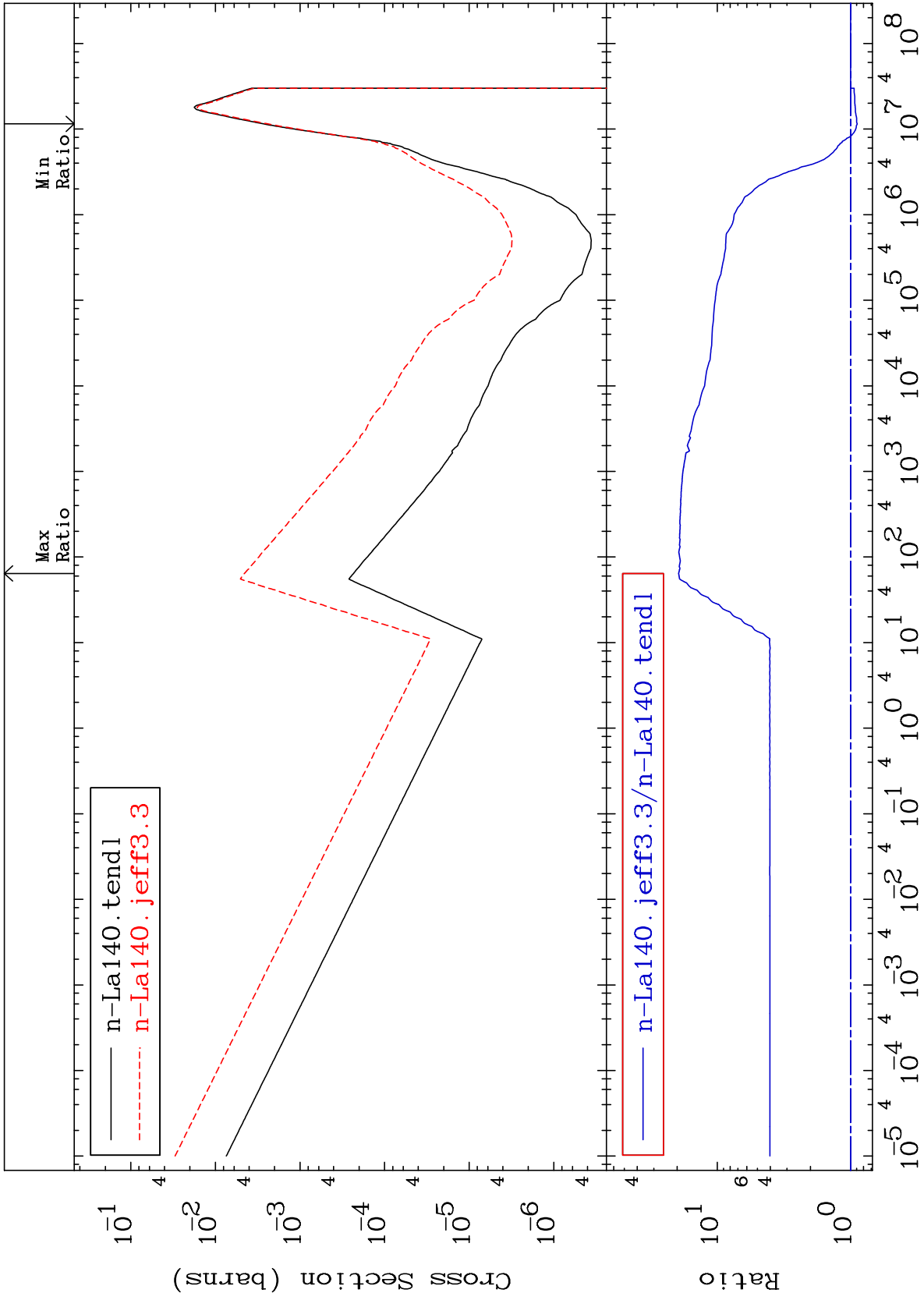
47

Incident Energy (eV)

57-La-140

MAT 5731

(n, α)
Cross Section
57-La-140
-11.00 To 1852. %



Incident Energy (eV)

57-La-140

48

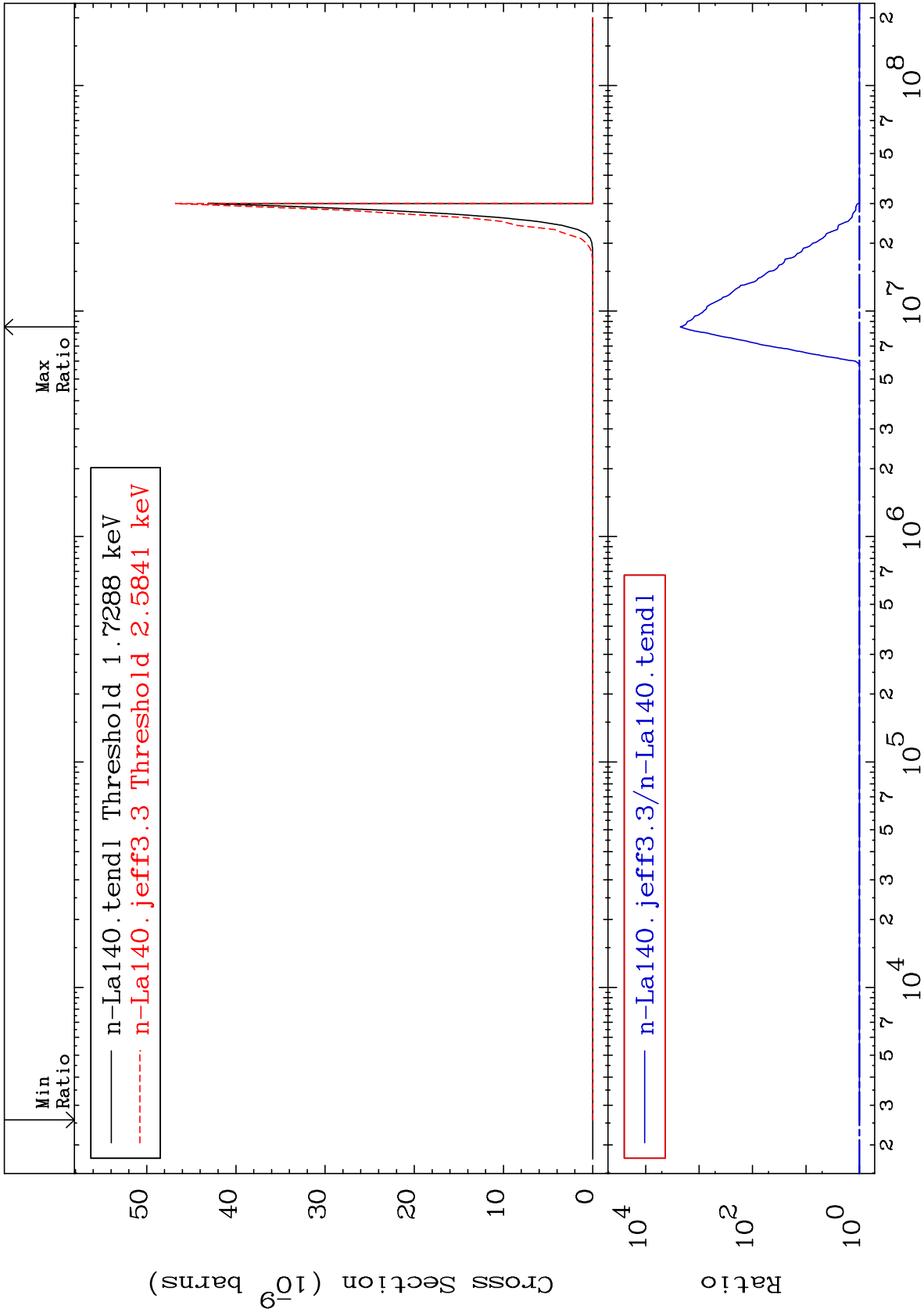
MAT 5731

(n,2α)

57-La-140

Cross Section

0.000 To 9999. %



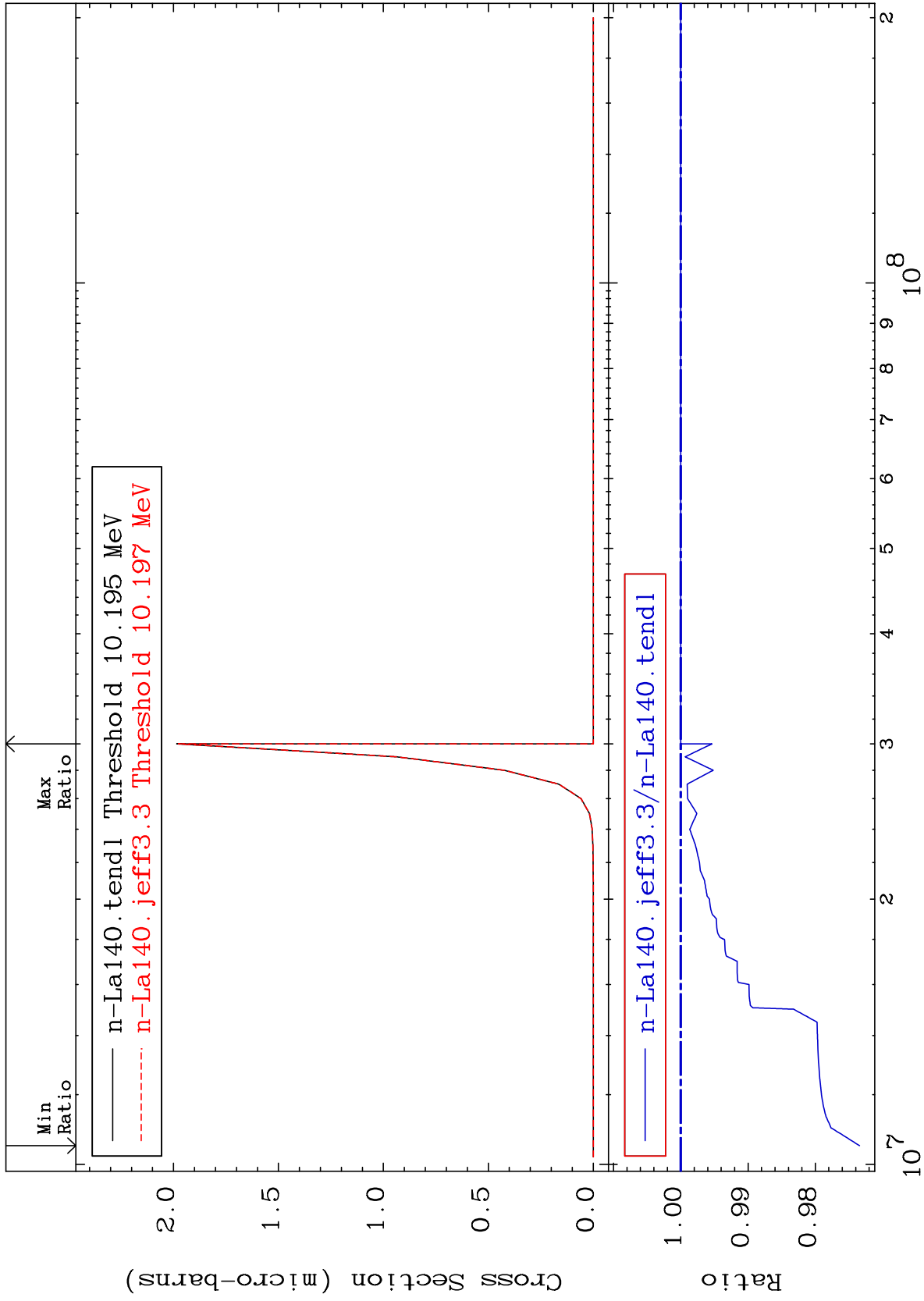
MAT 5731

(n,2p)

57-La-140

Cross Section

-2.656 To 0.000 %



50

Incident Energy (eV)

57-La-140

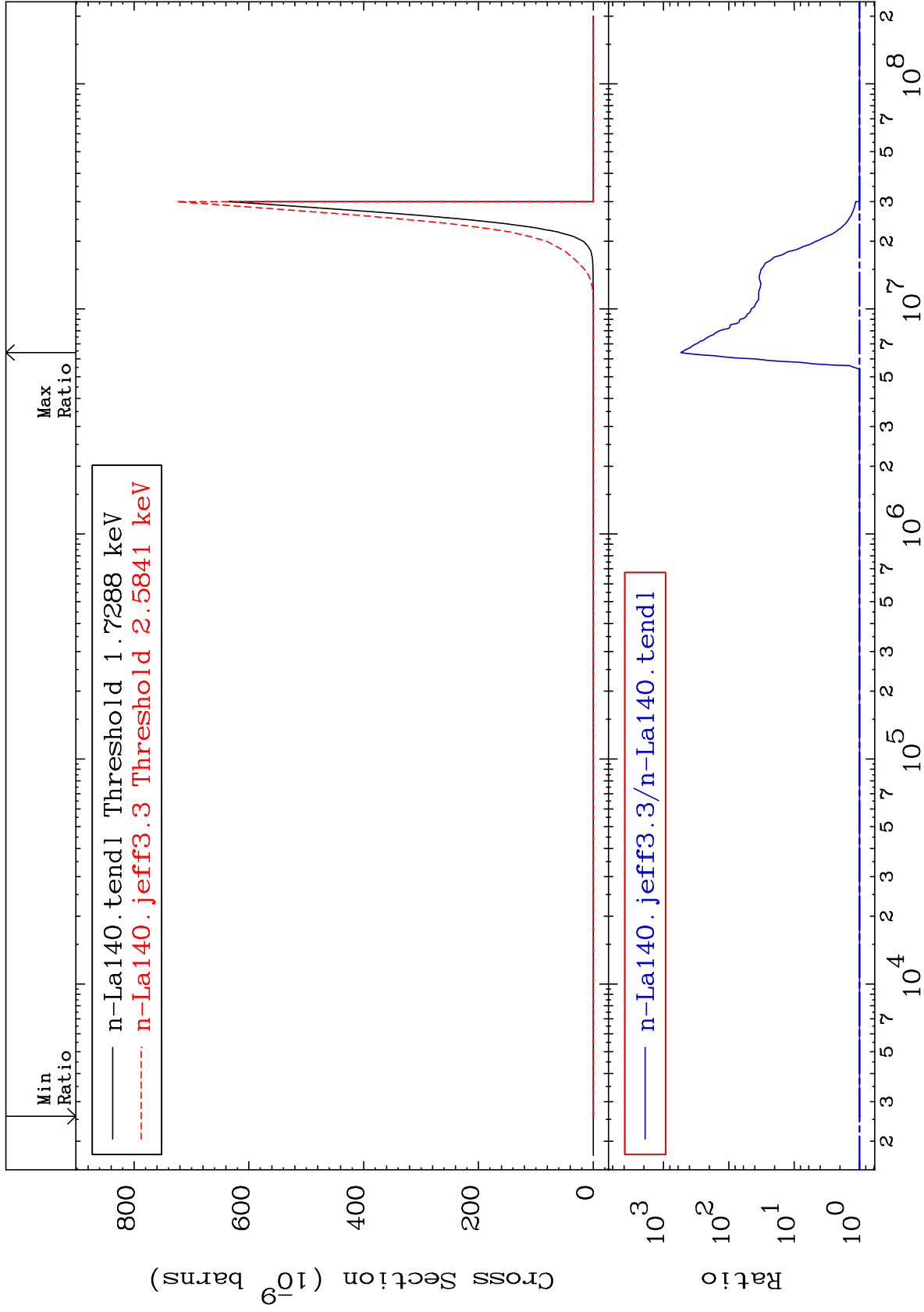
MAT 5731

(n, p) α

57-La-140

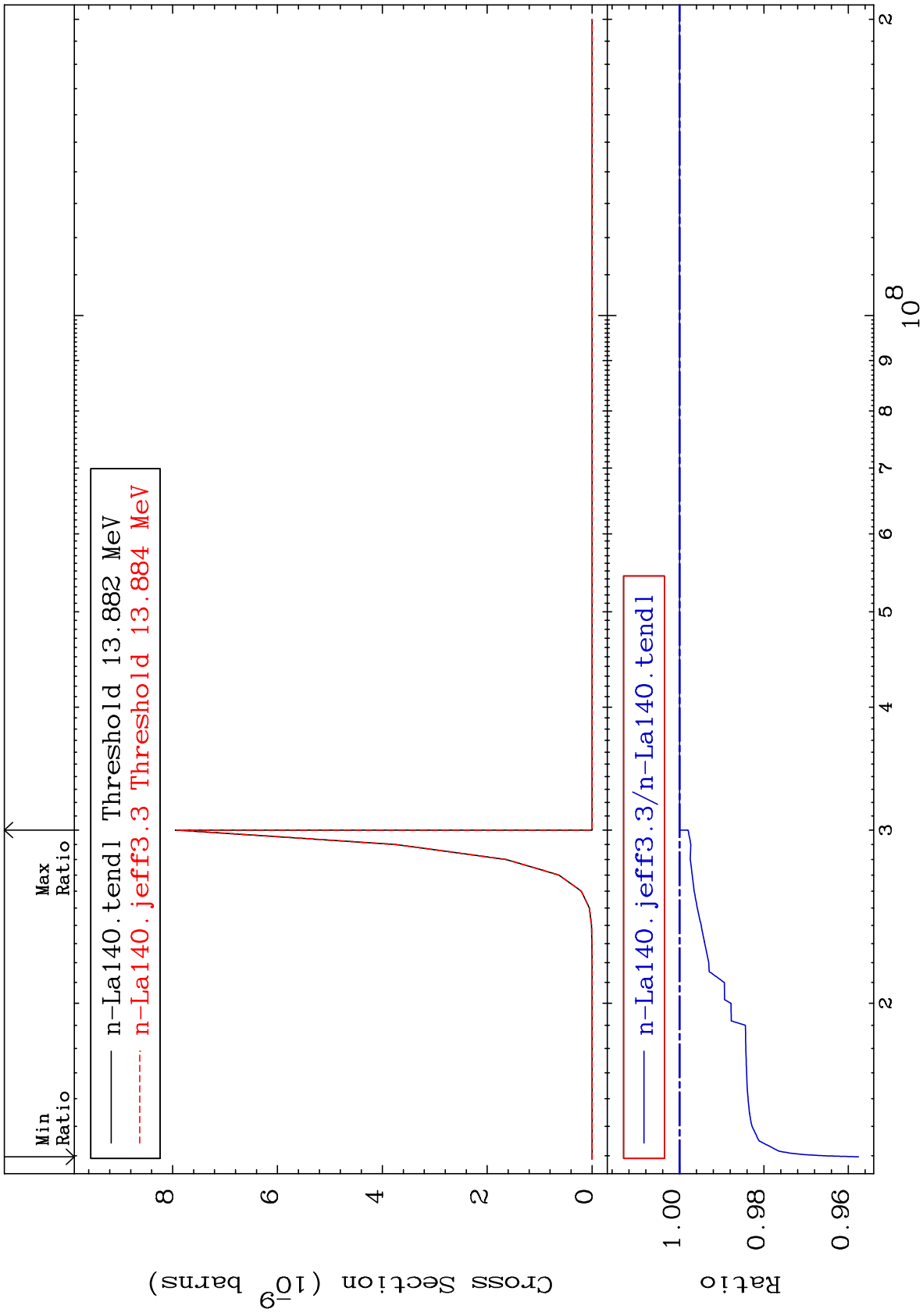
Cross Section

0.000 To 9999. %



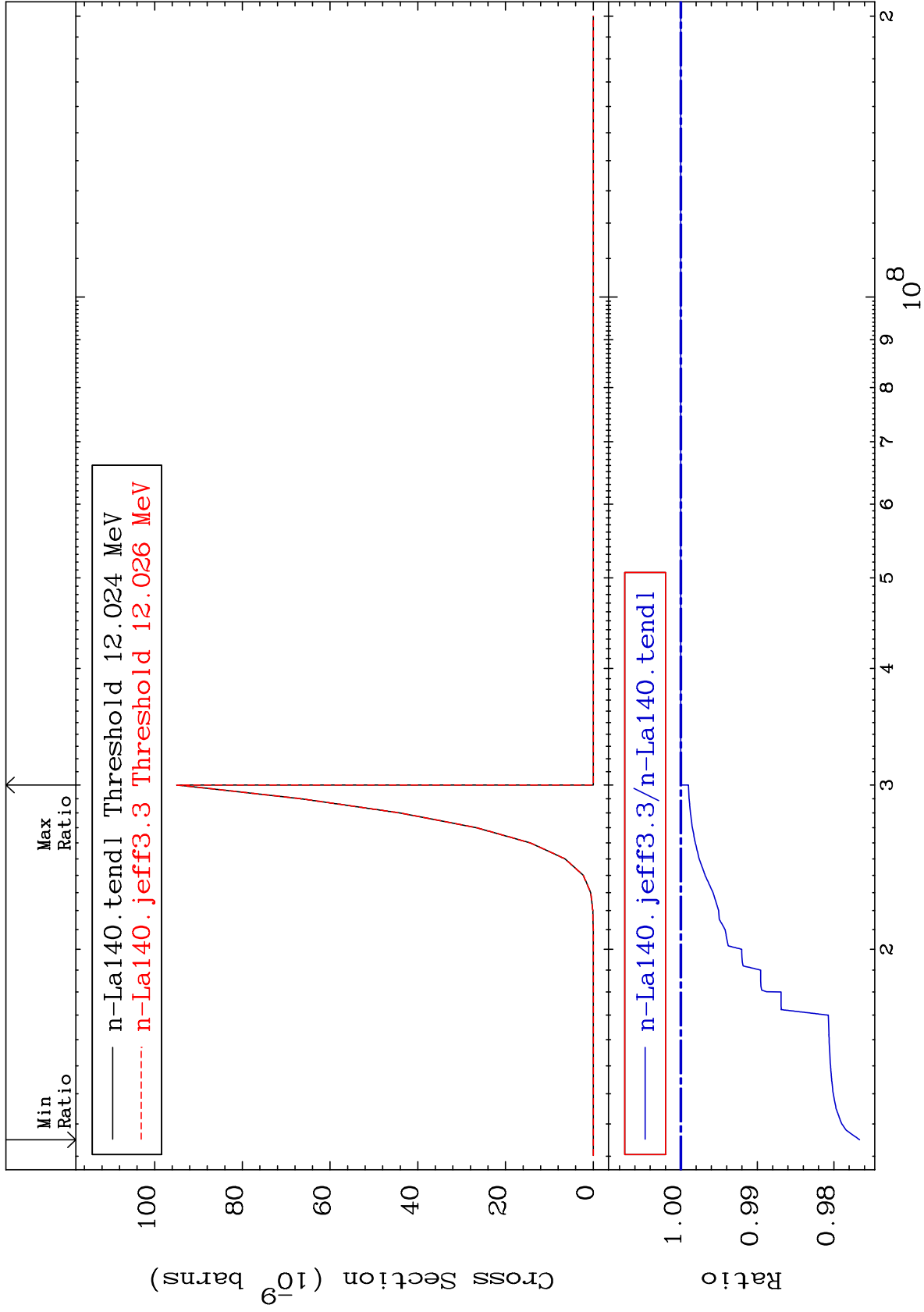
Cross Section

-4.240 To 0.000 %



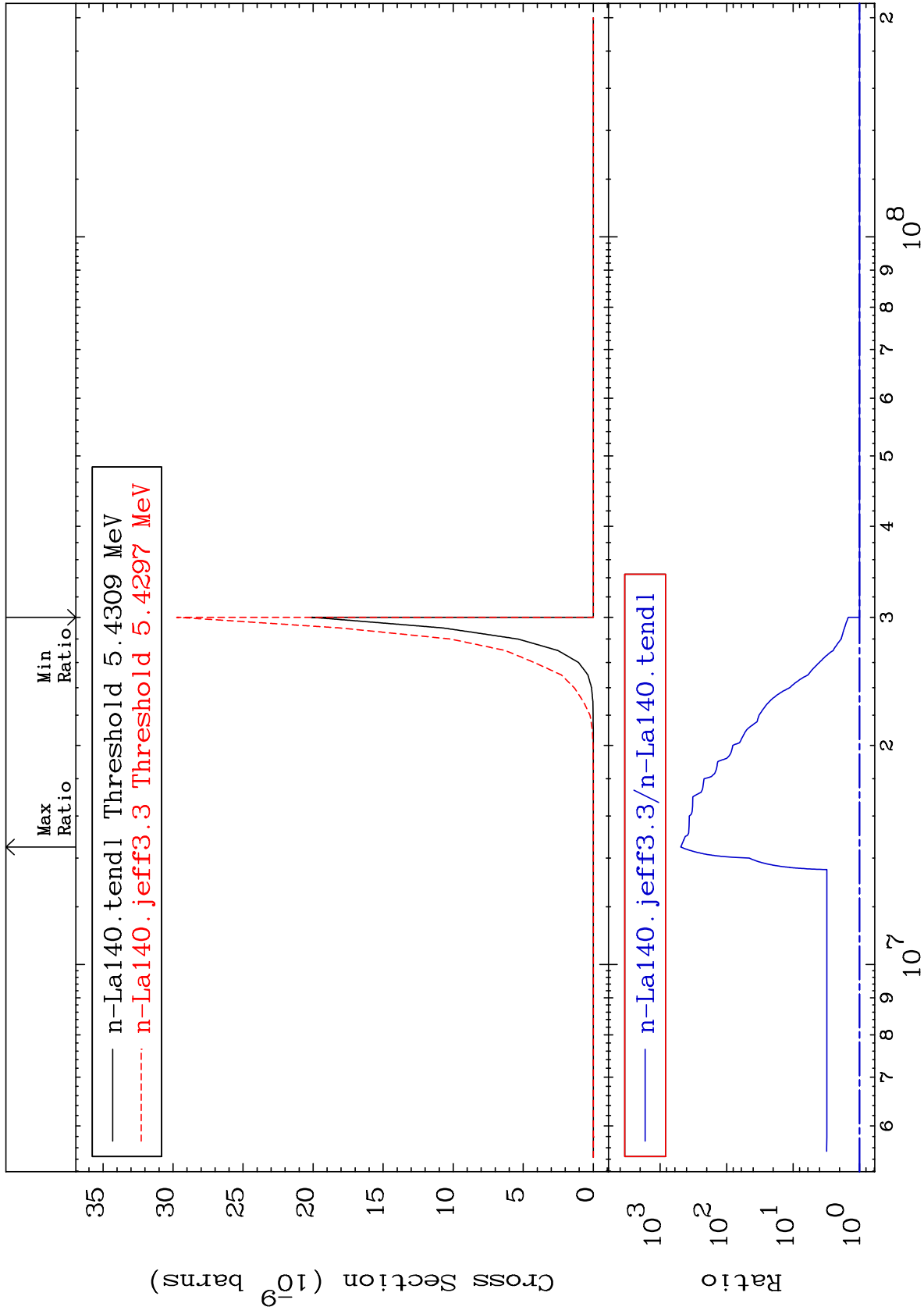
Cross Section

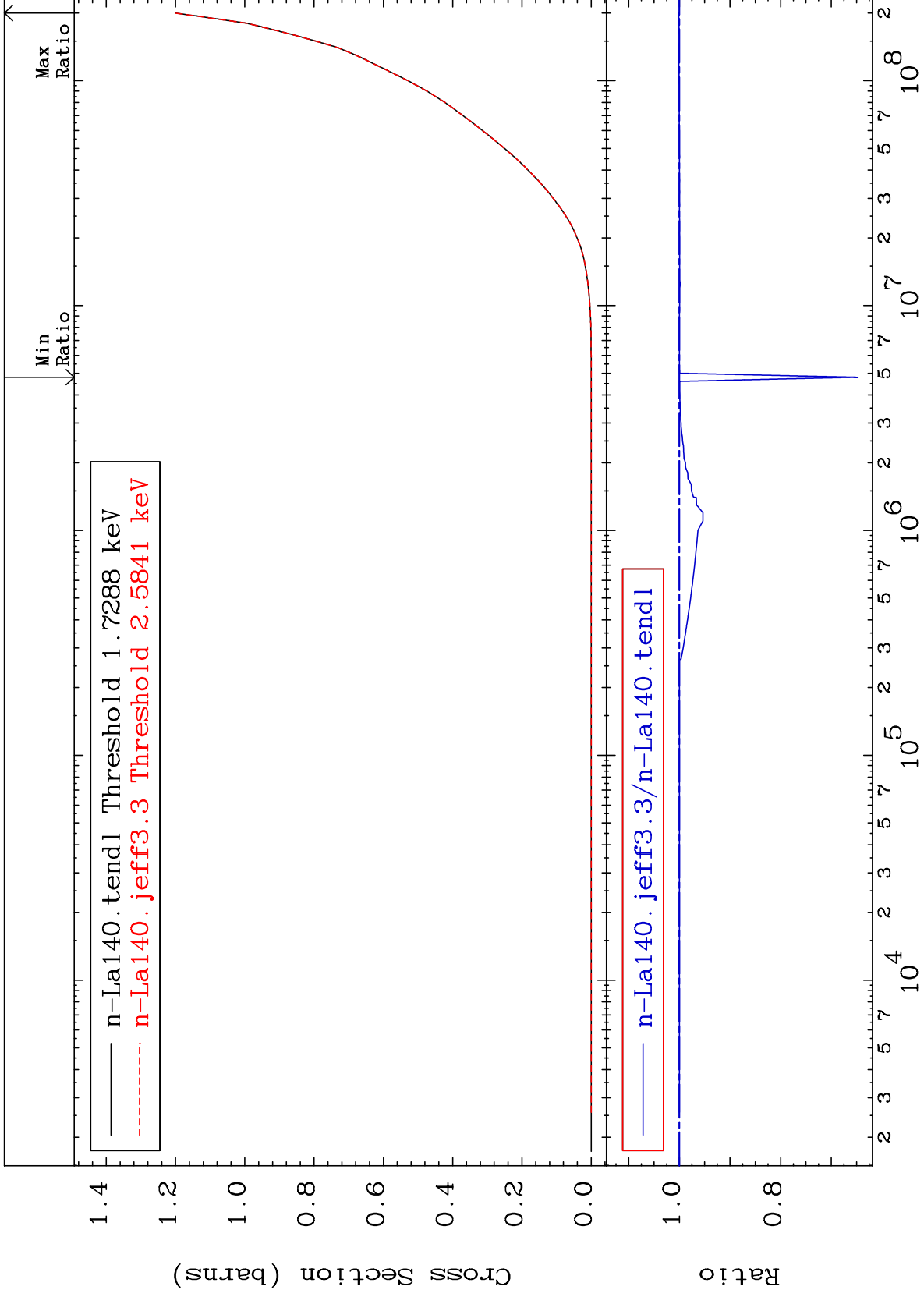
-2.335 To 0.000 %



MAT 5731

(n, d) α
Cross Section
57-La-140
To 9999. %
0.000

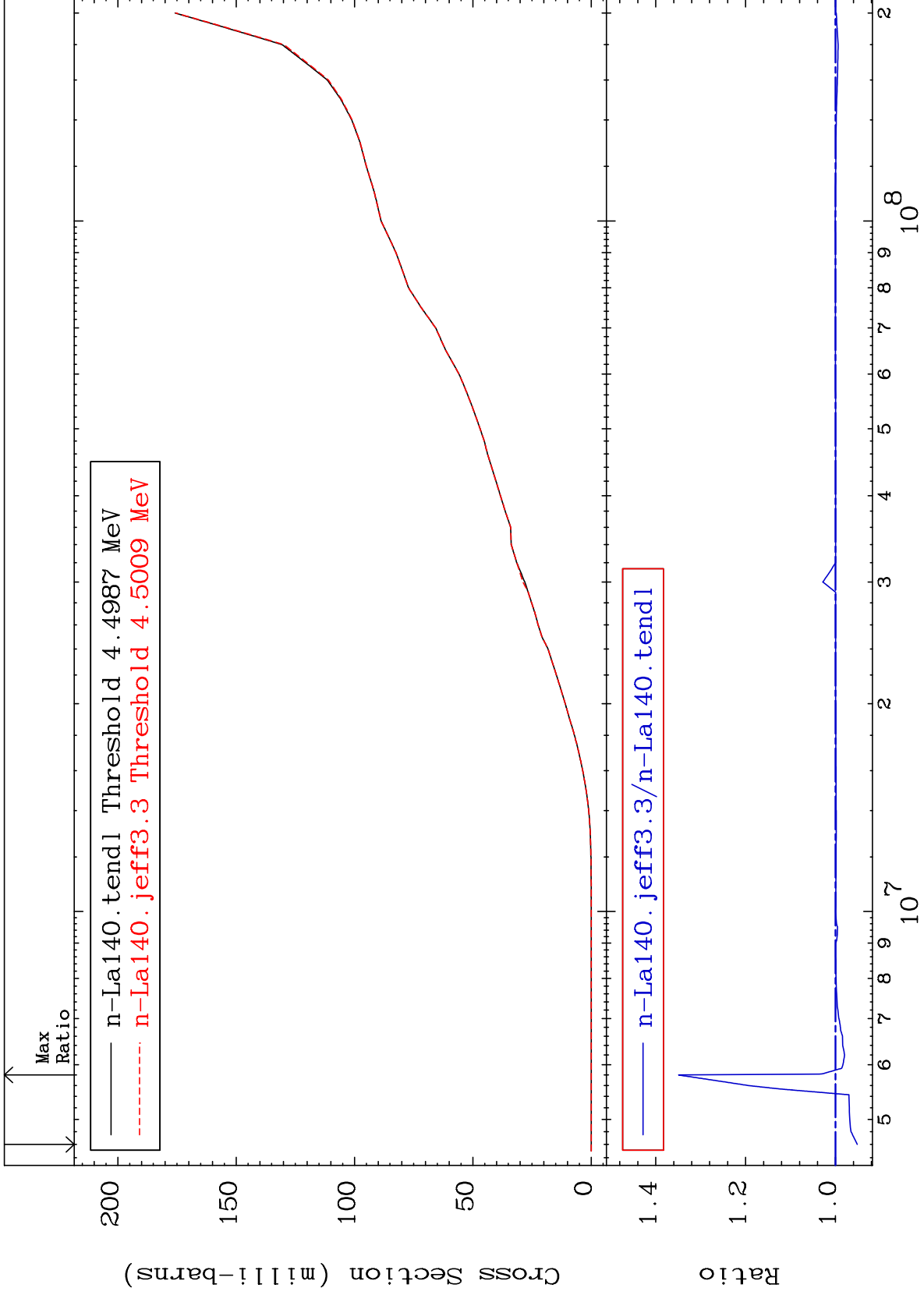




MAT 5731

Deuterium Production
Cross Section

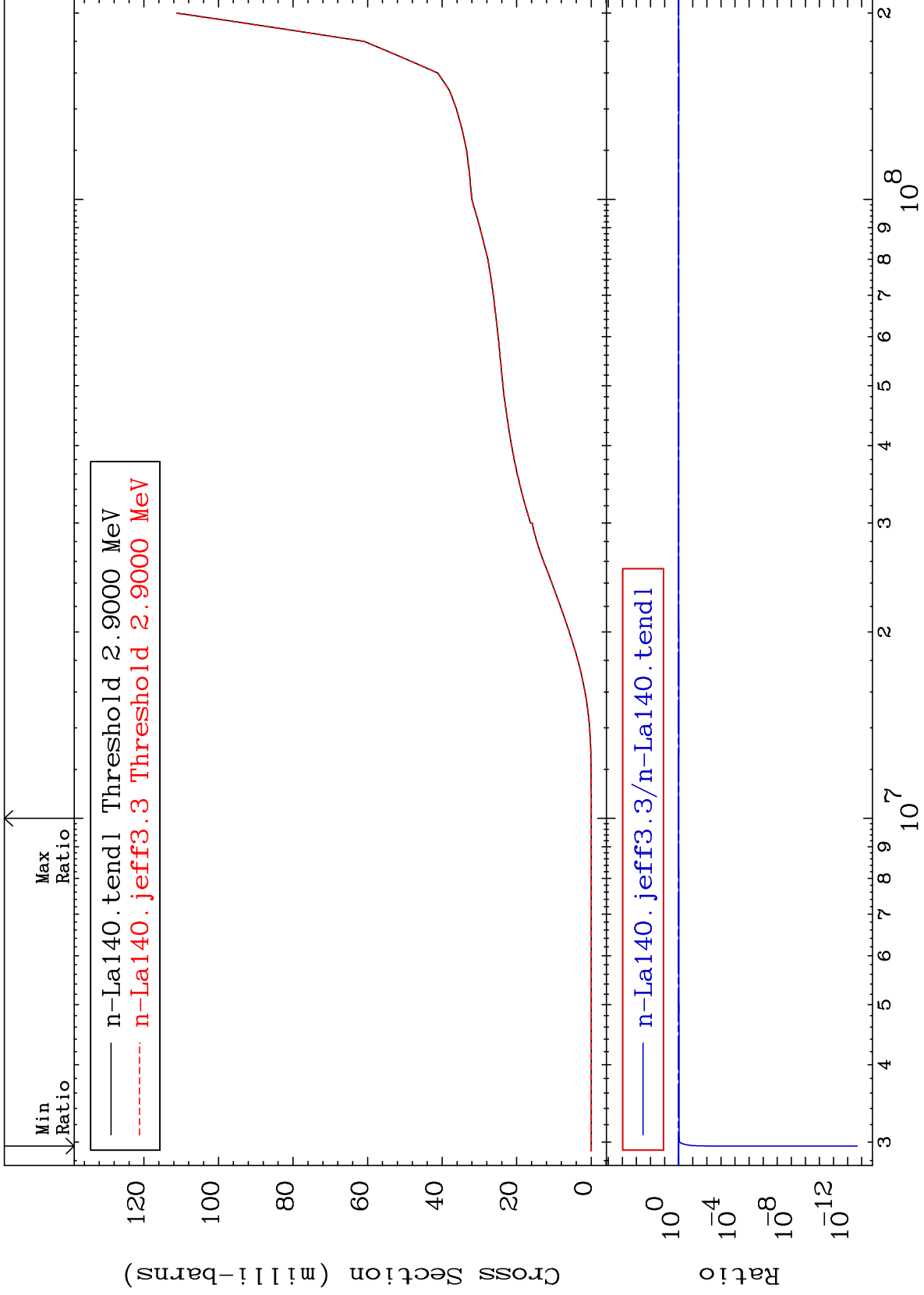
57-La-140
-4.843 To 34.90 %



56

Incident Energy (eV)

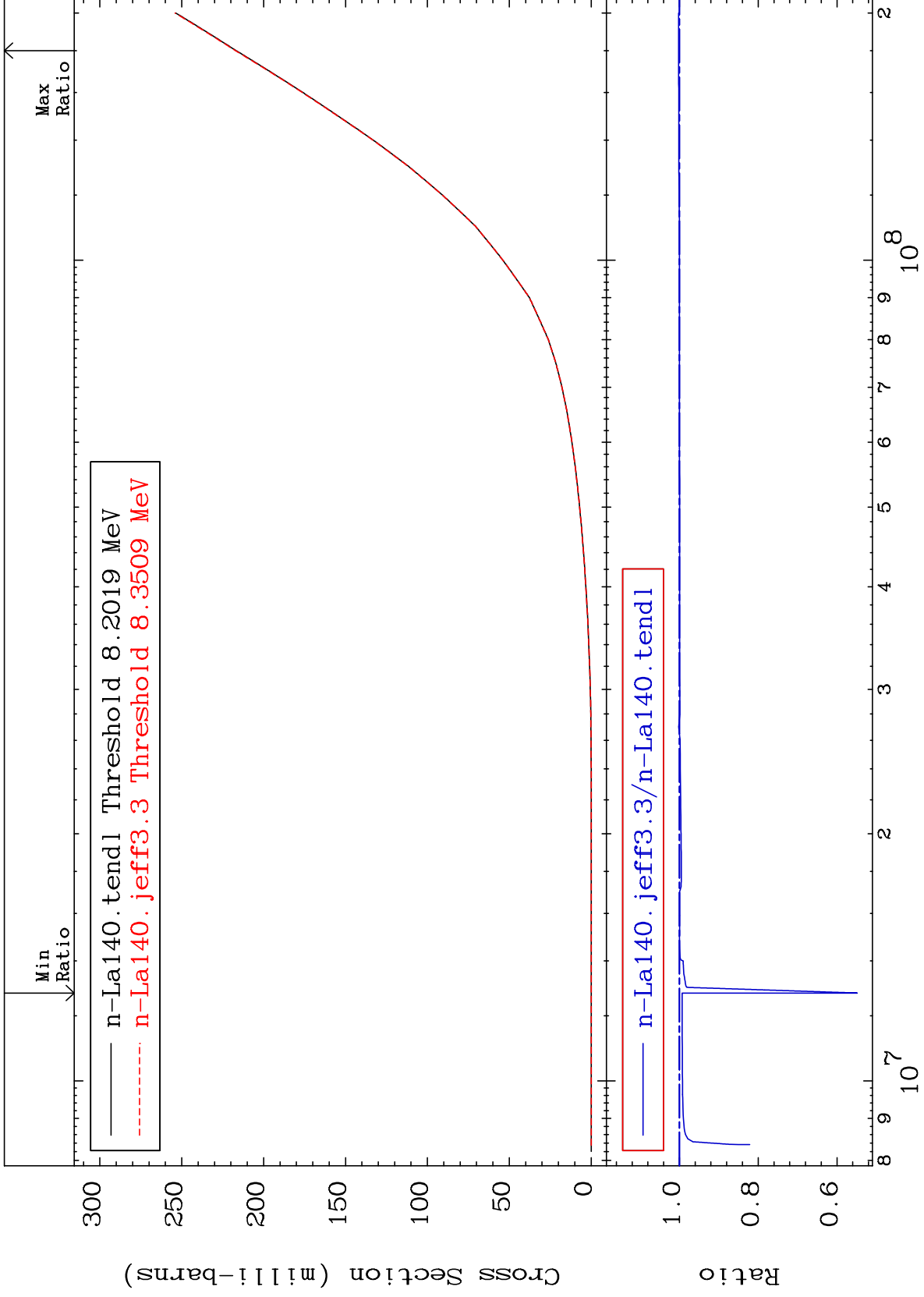
57-La-140



MAT 5731

He-3 Production
Cross Section

57-La-140
-45.14 To 0.195 %



58

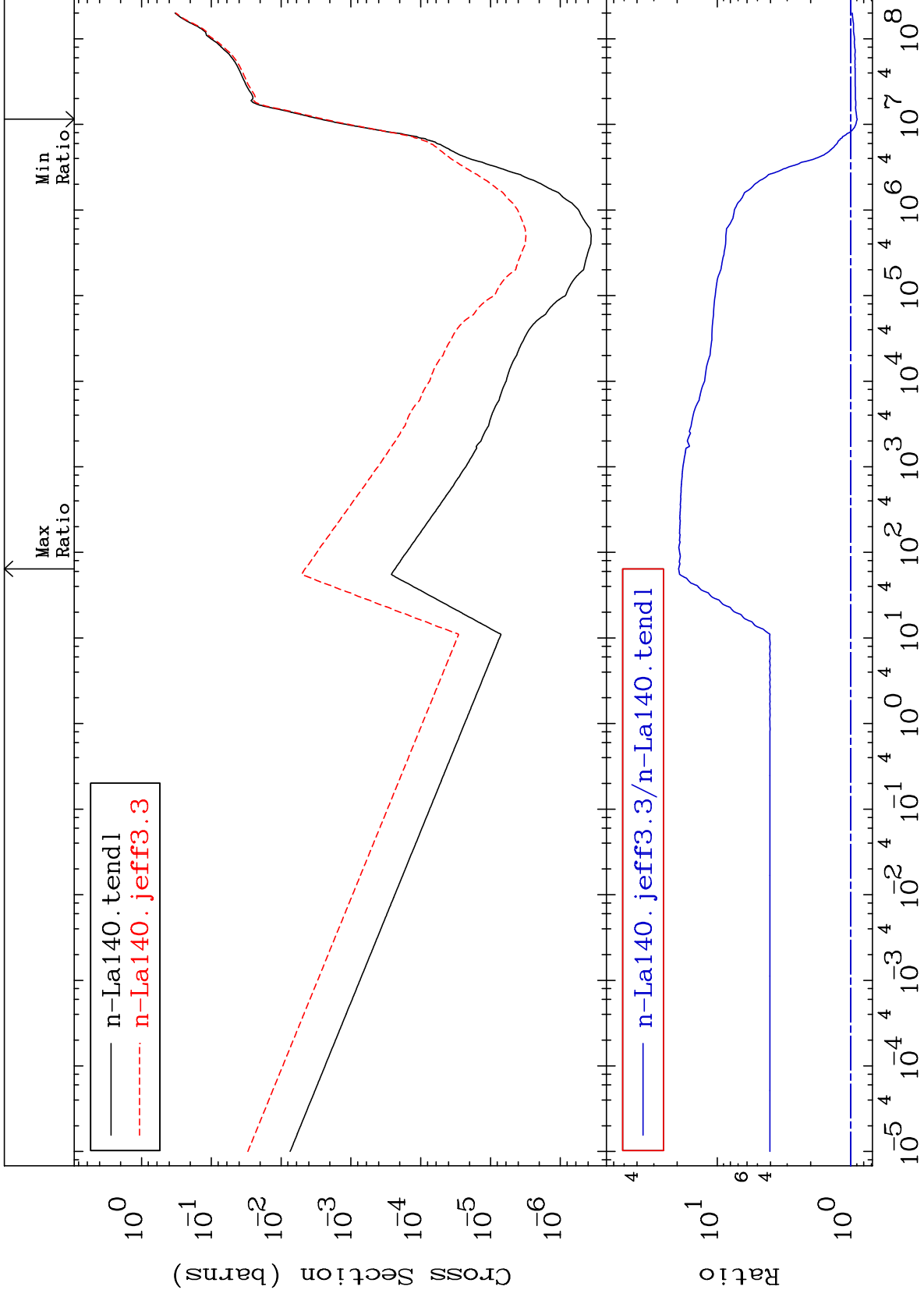
Incident Energy (eV)

57-La-140

MAT 5731

He-4 Production
Cross Section

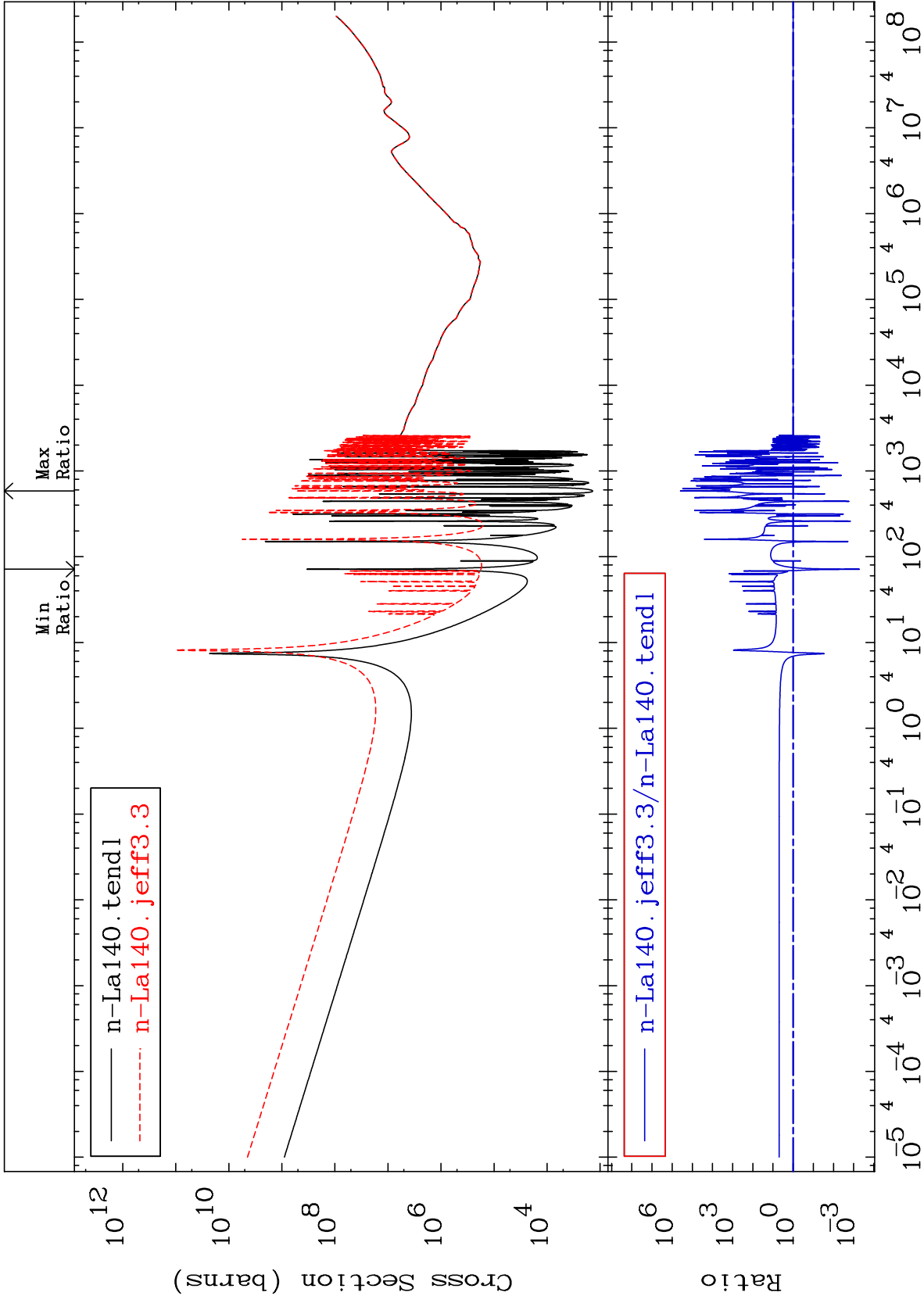
57-La-140
-10.70 To 1852. %



59

Incident Energy (eV)

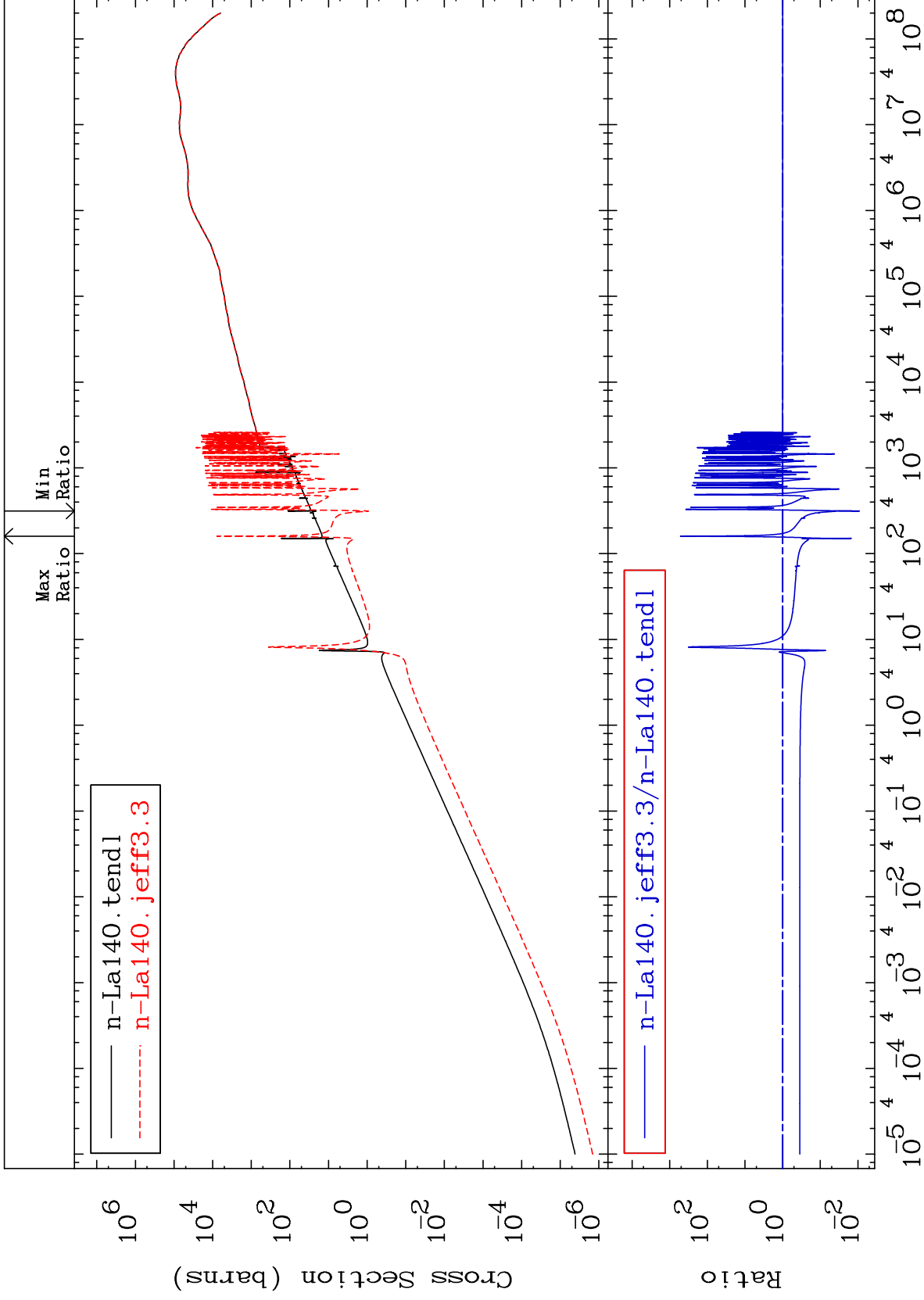
57-La-140



MAT 5731

Kerma elastic
Cross Section

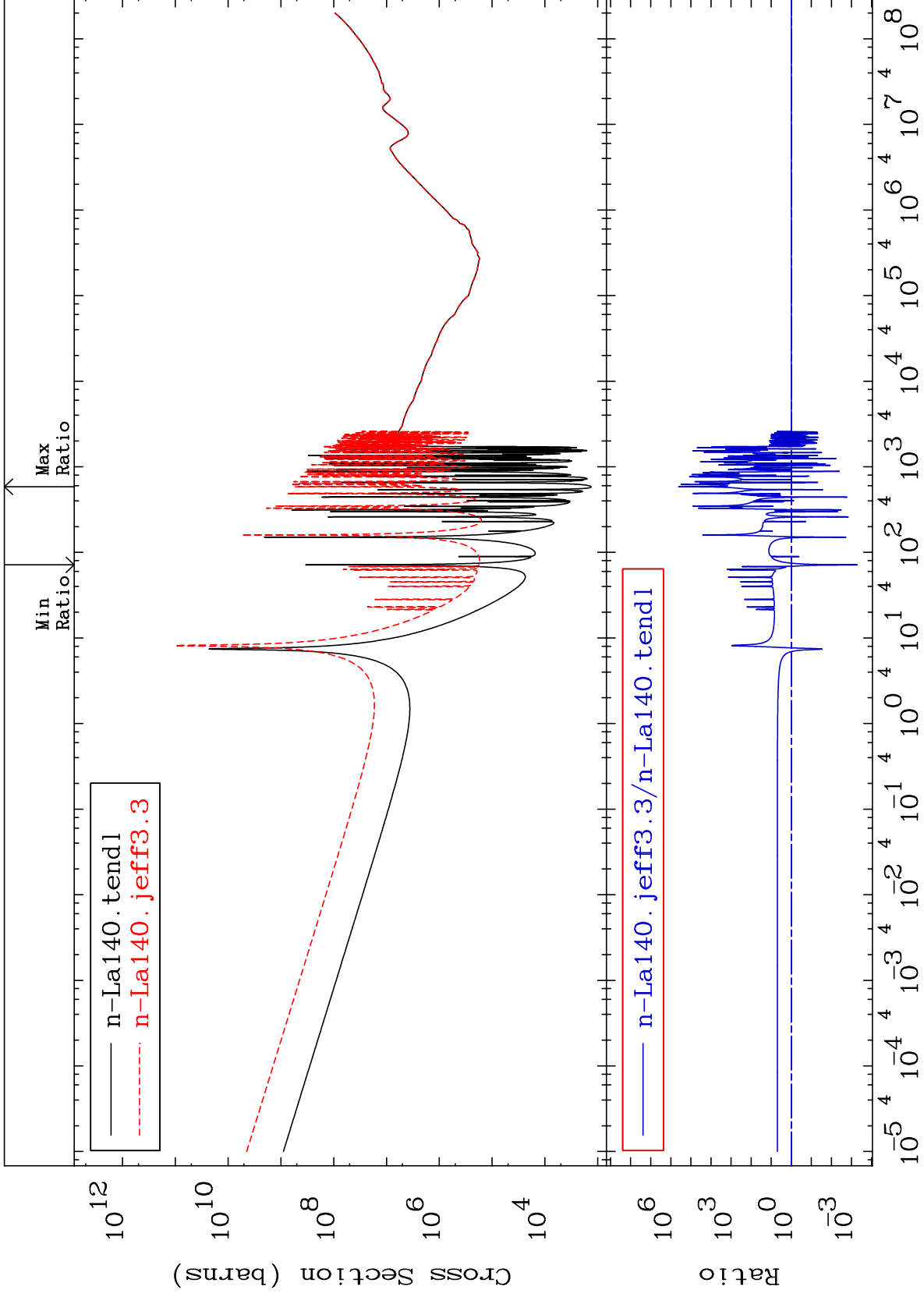
57-La-140
-99.09 To 9999. %



61

Incident Energy (eV)

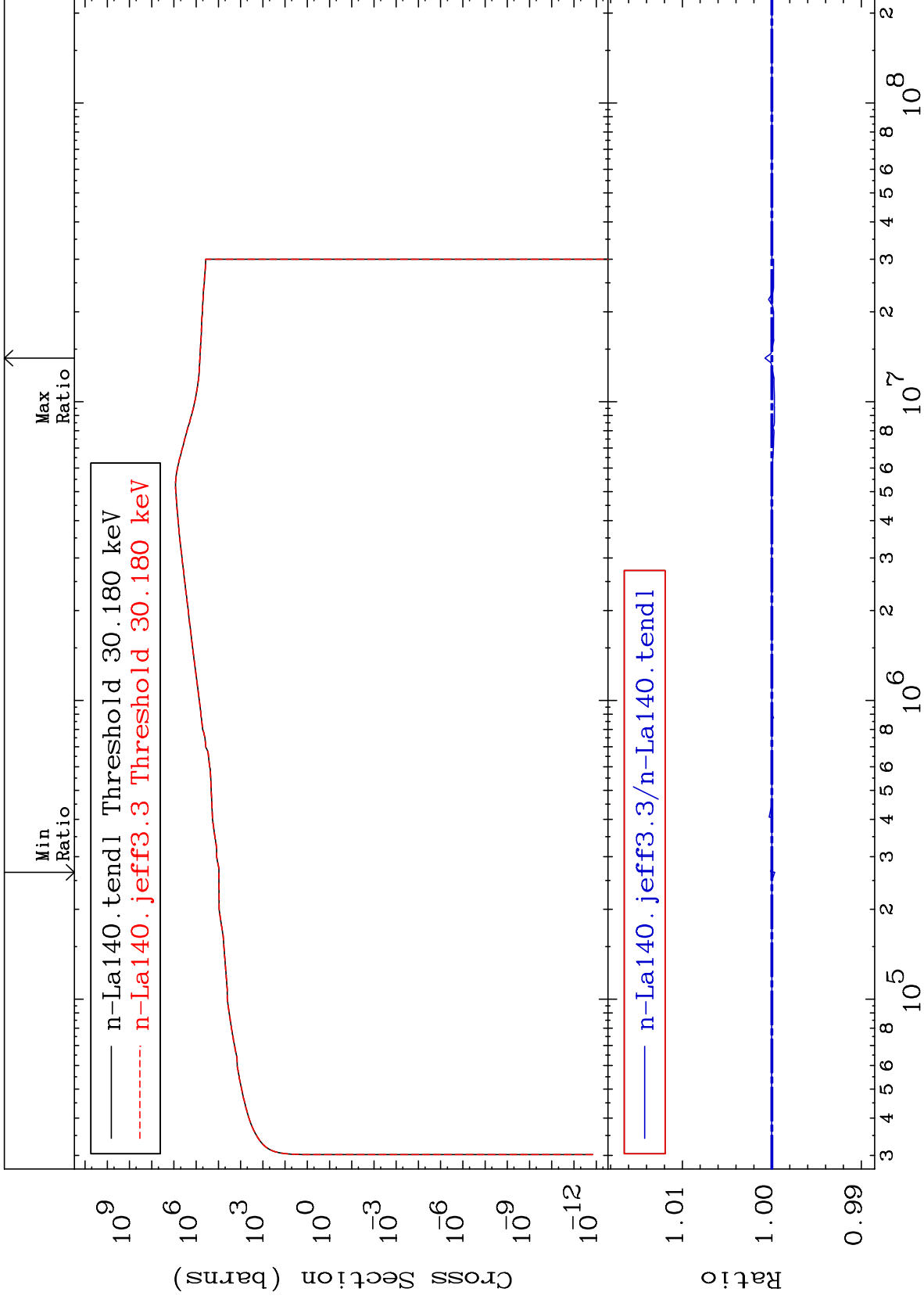
57-La-140



MAT 5731

Kerma inelastic (mt51-91)
Cross Section

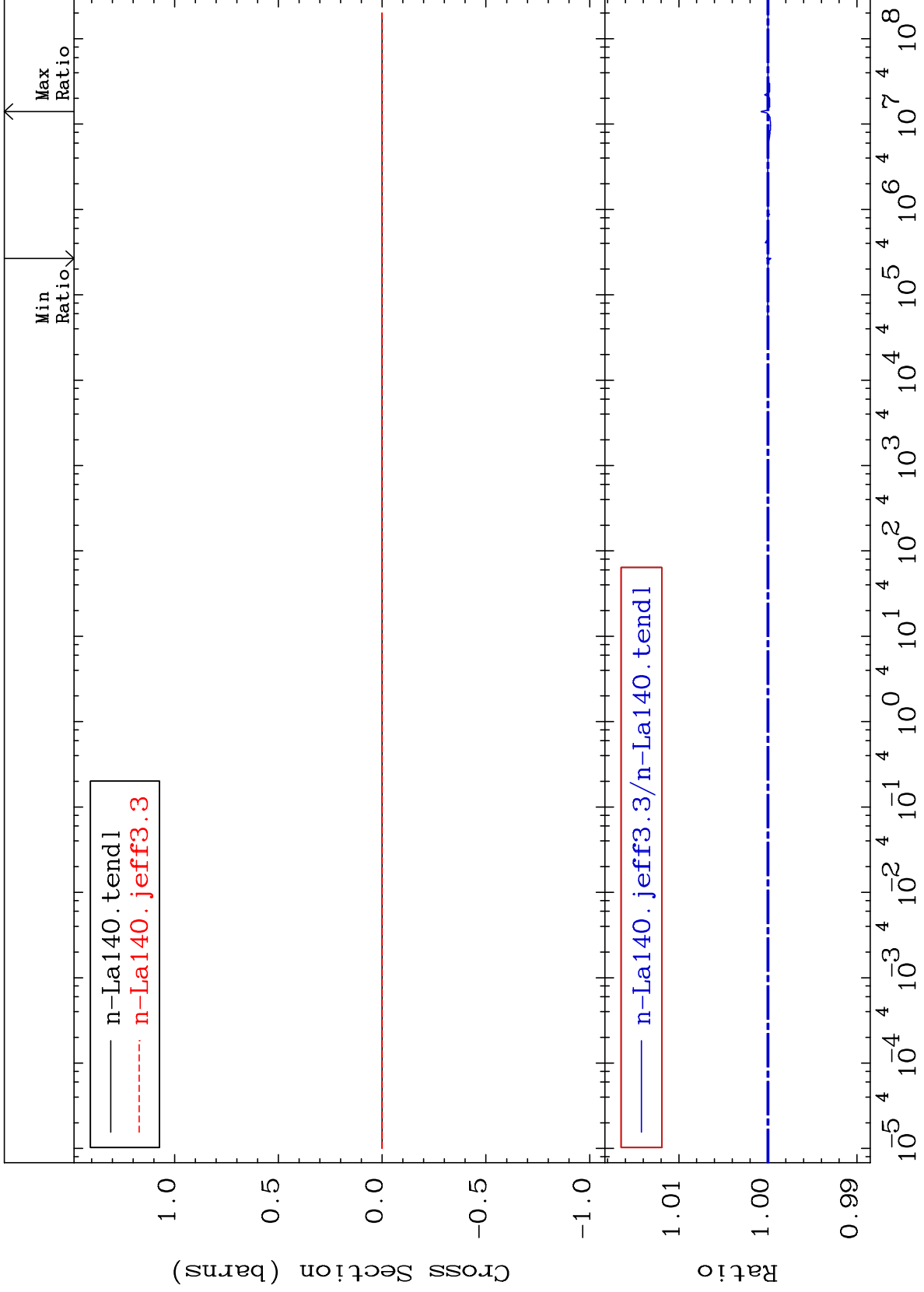
57-La-140
-0.033 To 0.076 %



MAT 5731

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

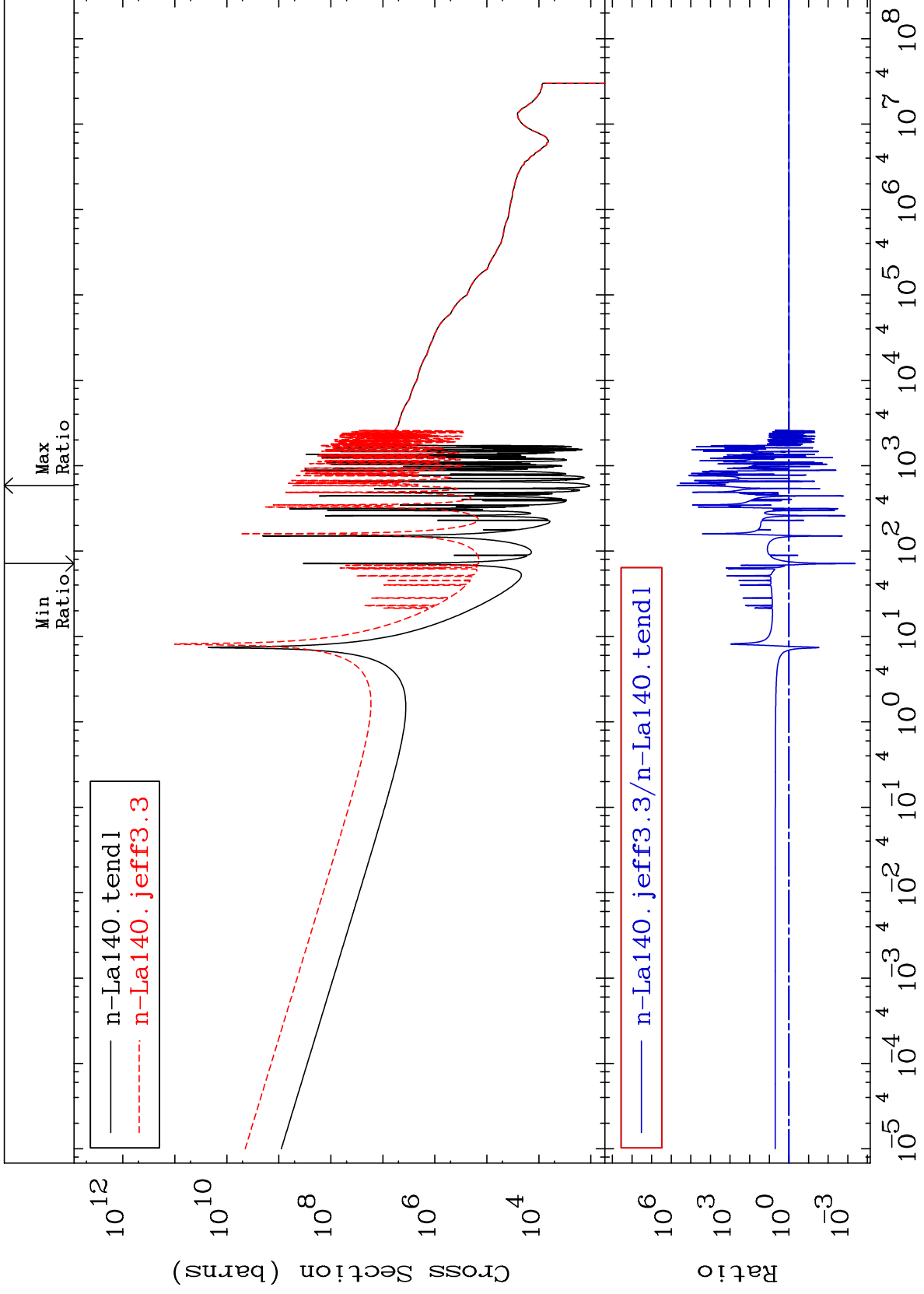
57-La-140
-0.033 To 0.076 %



MAT 5731

Kerma capture (mt102)
Cross Section

57-La-140
-99.96 To 9999. %

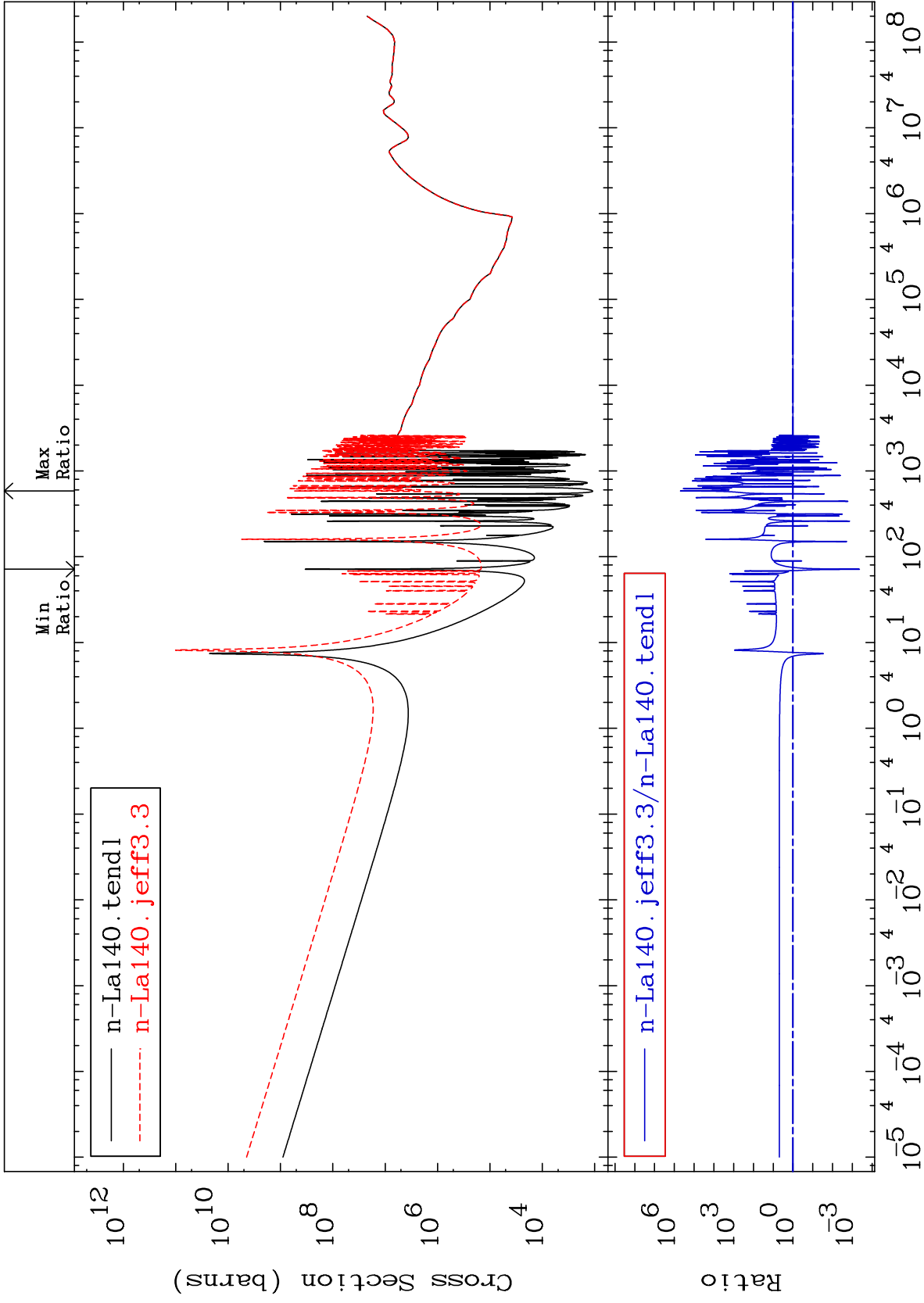


MAT 5731

Total photon (eV-barns)
Cross Section

57-La-140

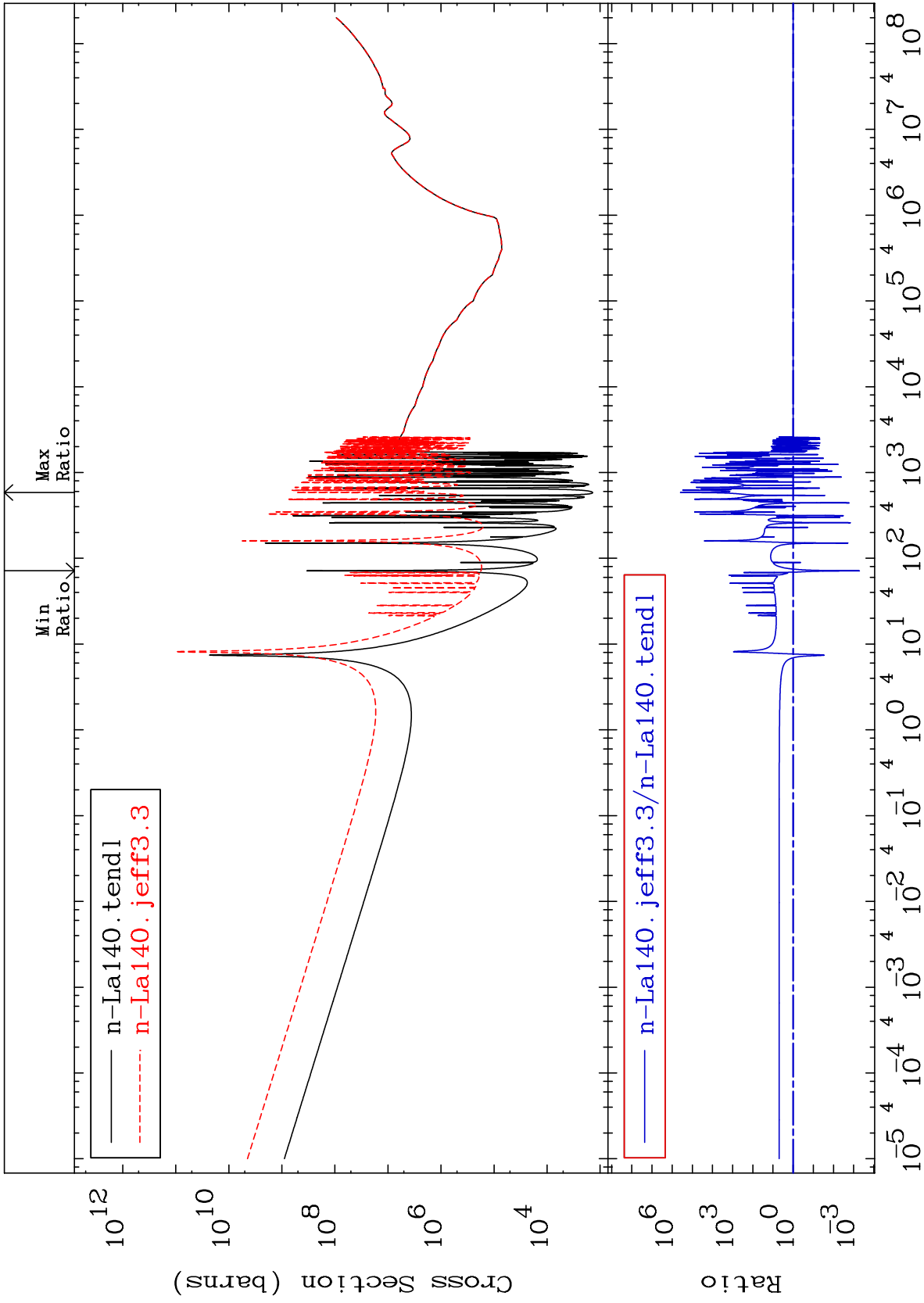
-99.96 To 9999. %

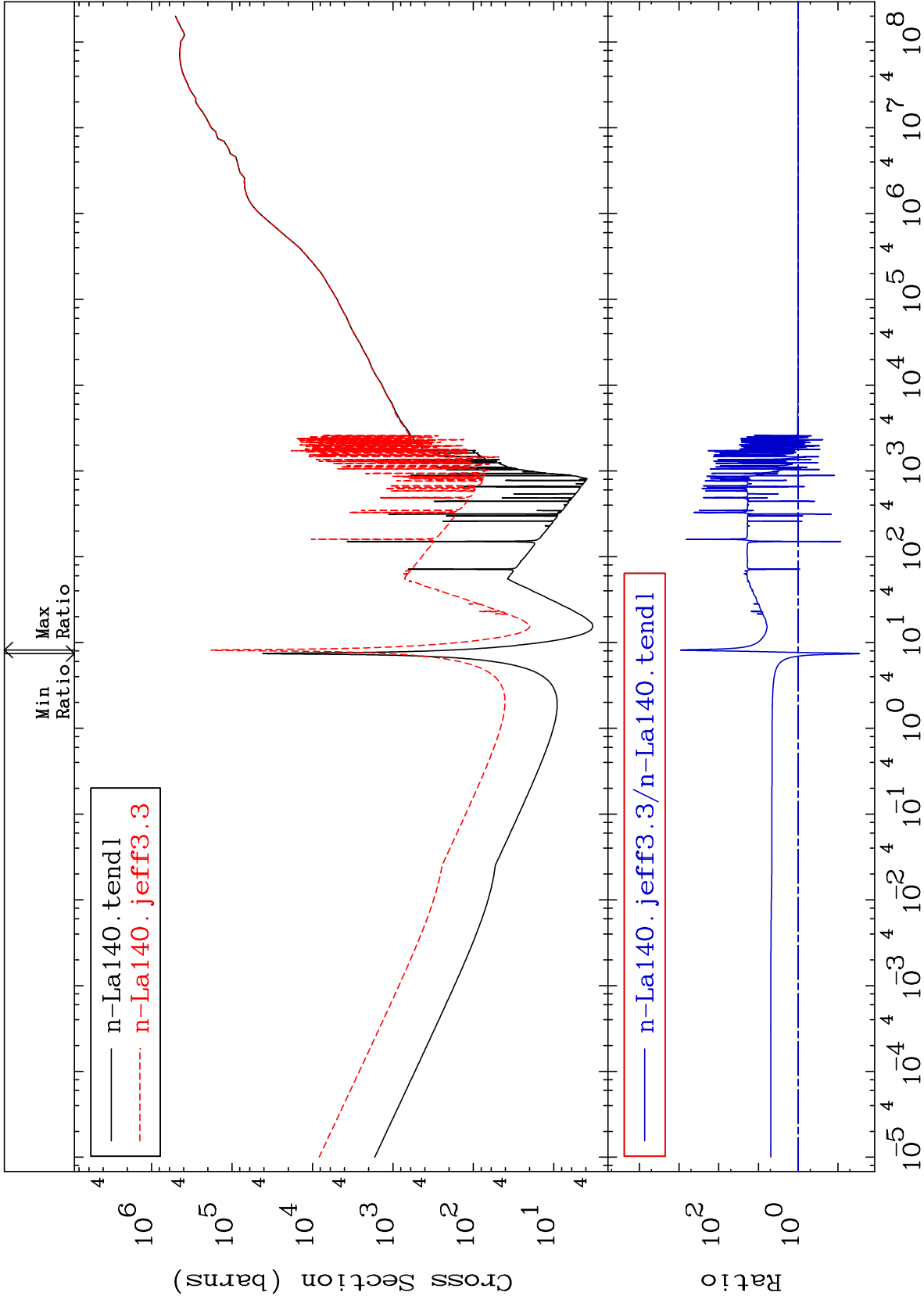


66

Incident Energy (eV)

57-La-140

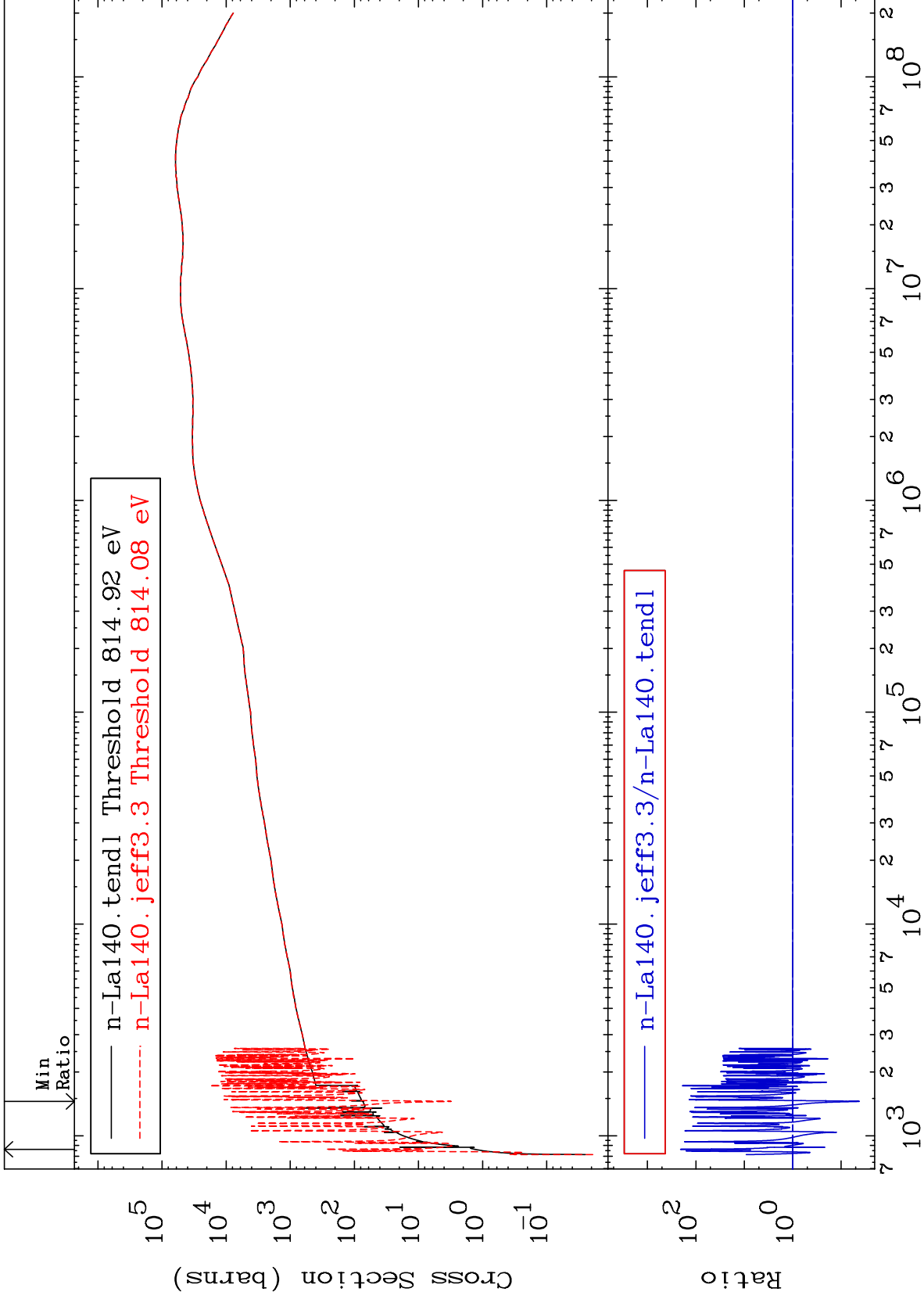




MAT 5731

Dpa elastic (mt2)
Cross Section

57-La-140
-95.81 To 9999. %



69

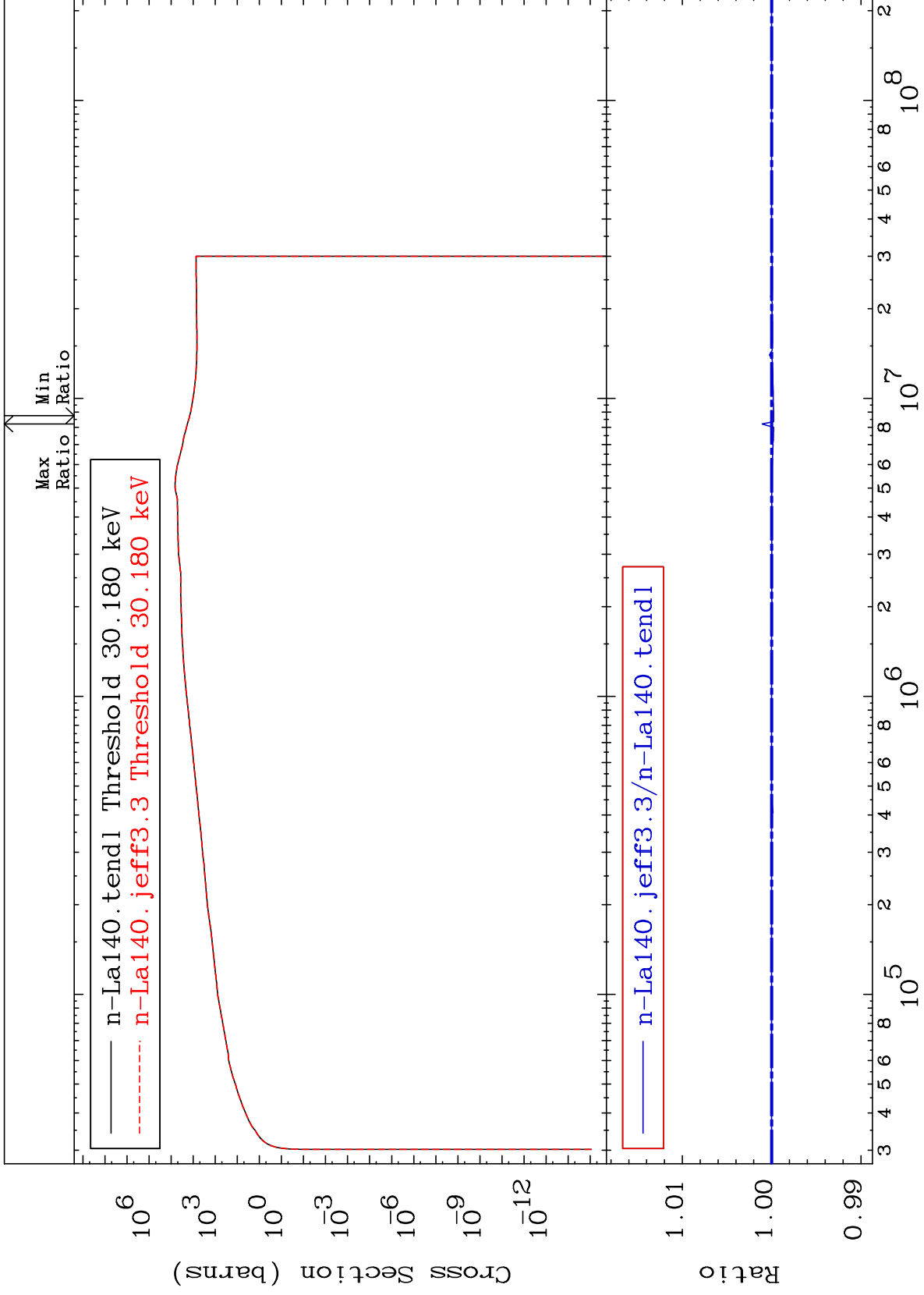
Incident Energy (eV)

57-La-140

MAT 5731

Dpa inelastic (mt51-91)
Cross Section

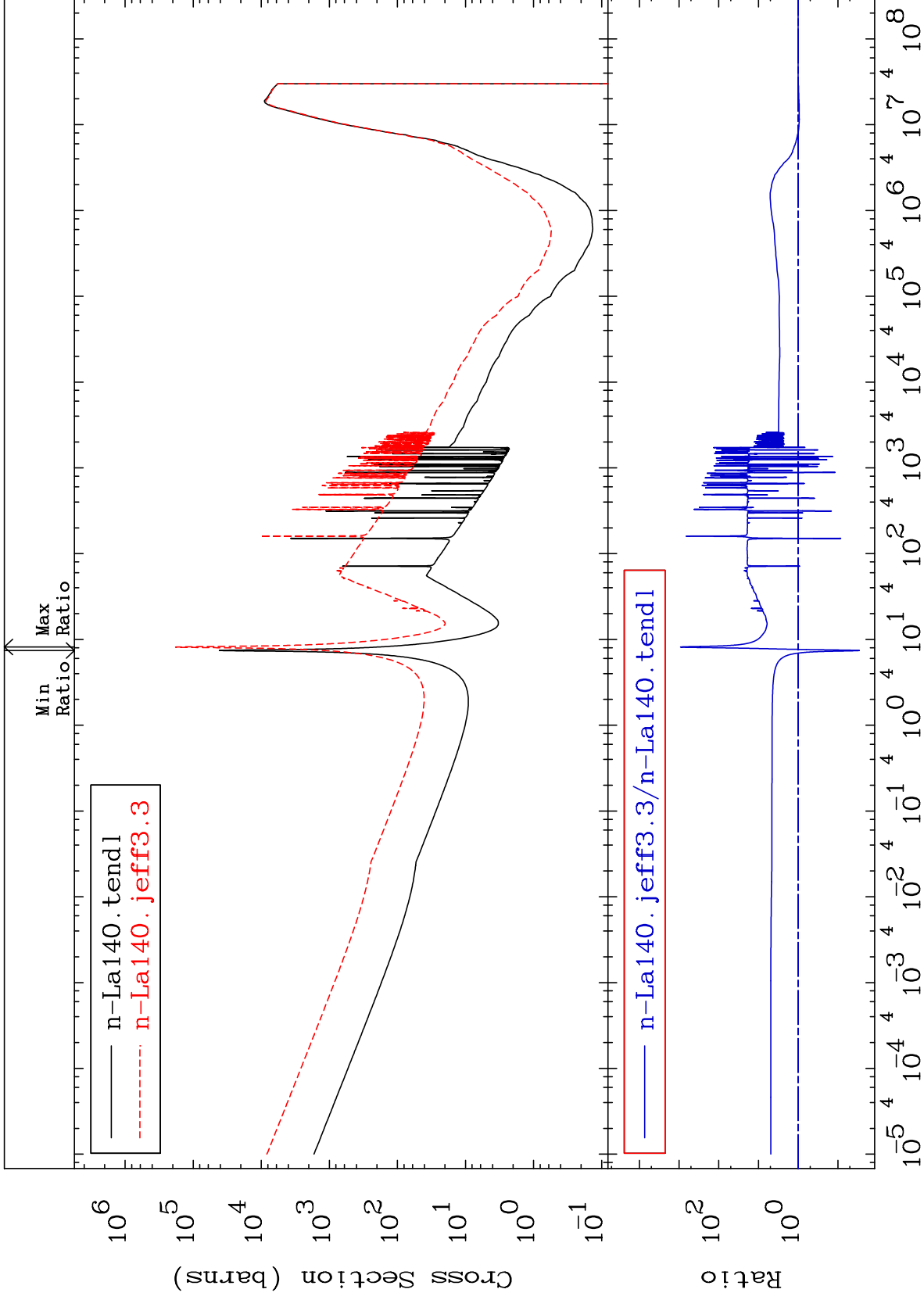
57-La-140
-0.024 To 0.106 %

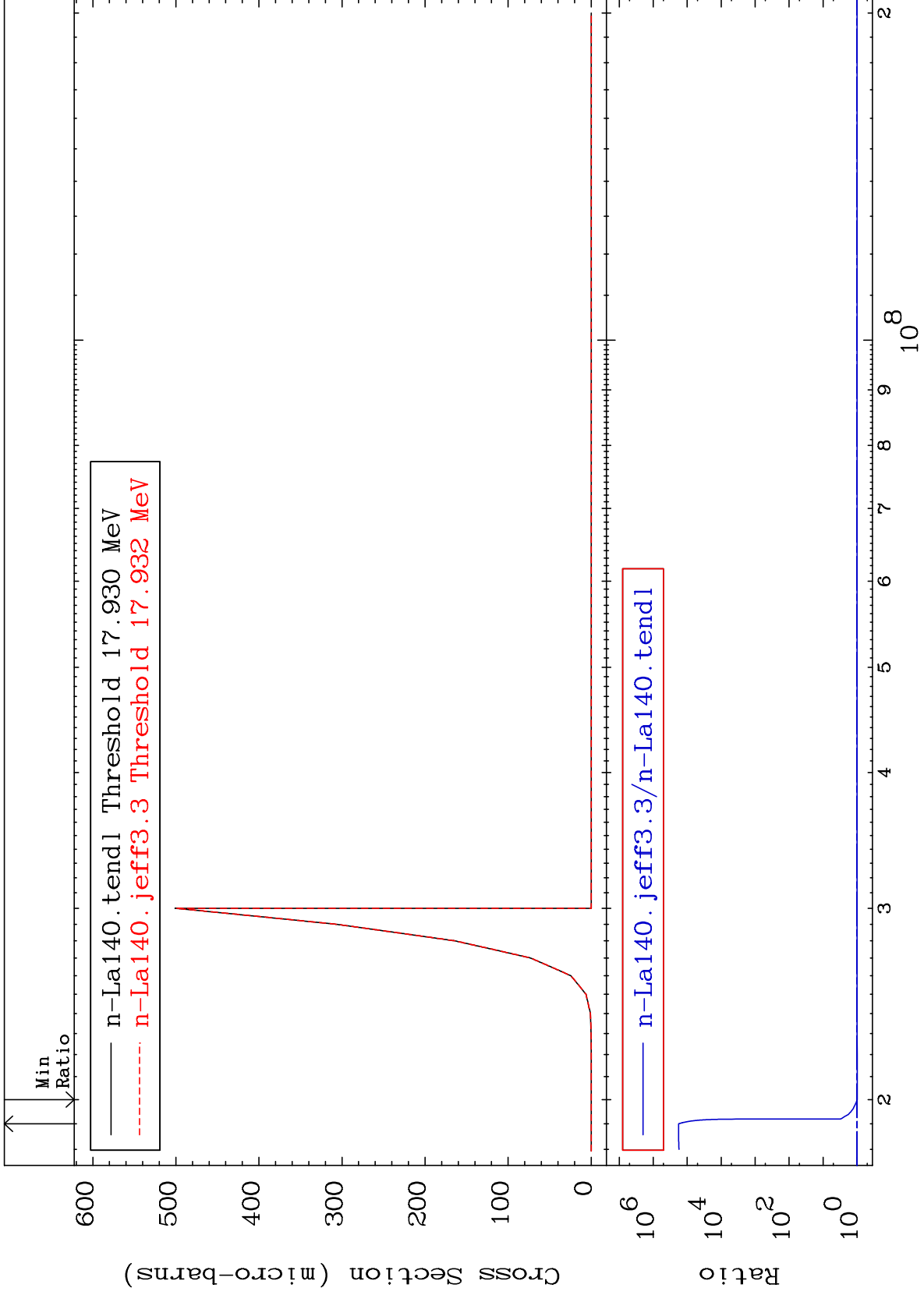


70

Incident Energy (eV)

57-La-140





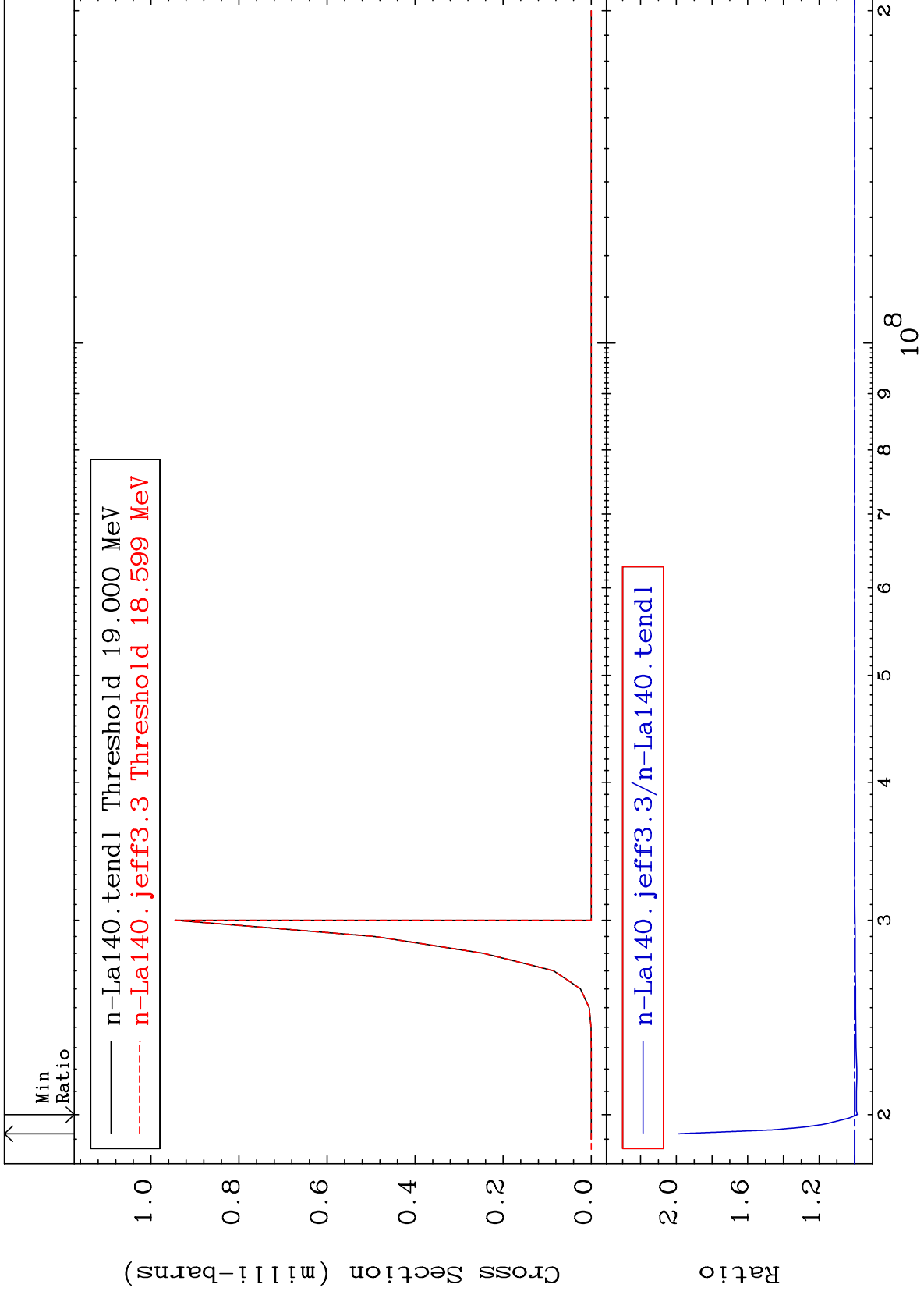
MAT 5731

(n,2n) d:56-Ba-137m2

57-La-140

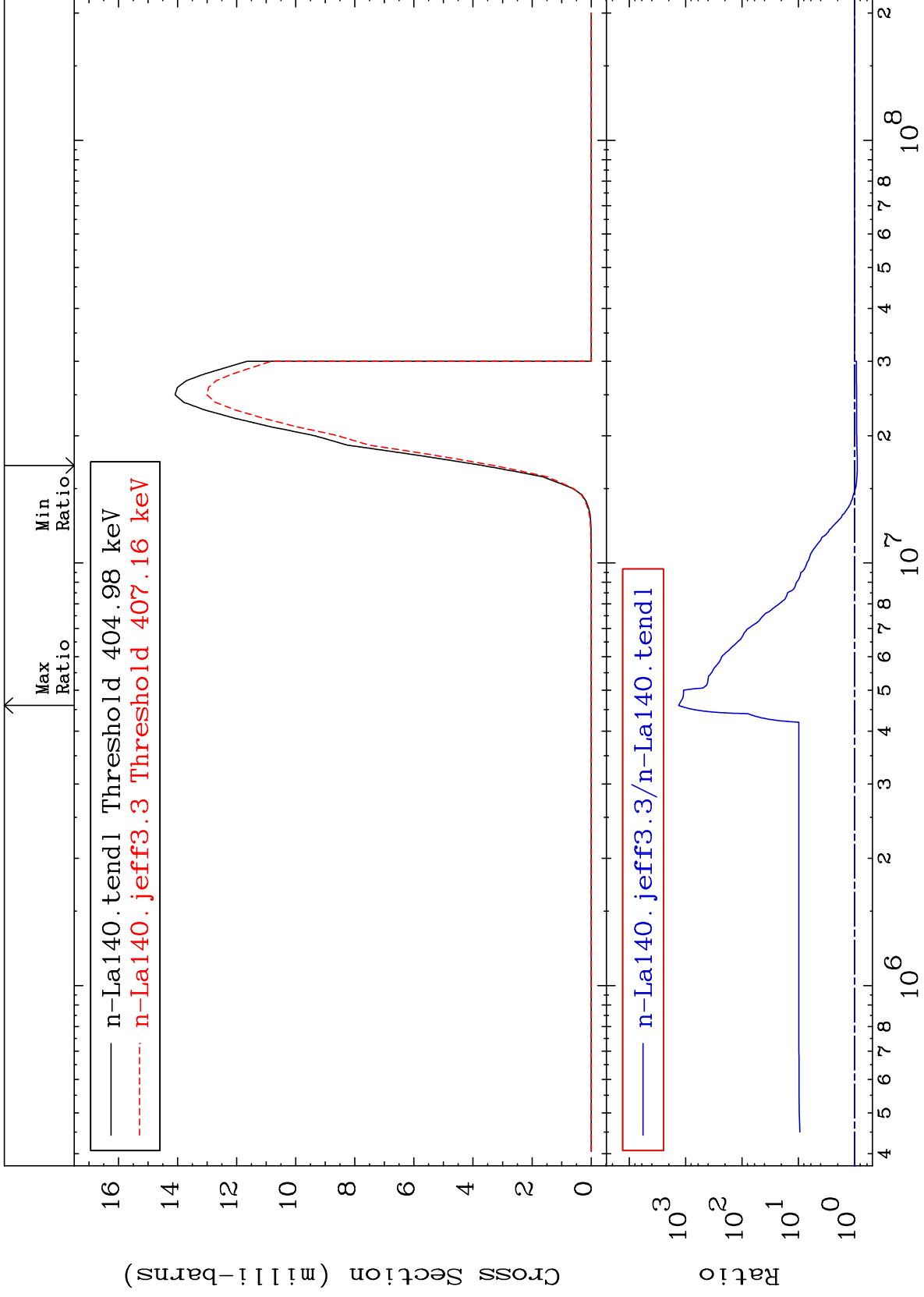
Radionuclide Production Cross Section

-1.367 To 98.67 %



MAT 5731

(n, n') α :55-Cs-136g 57-La-140
Radionuclide Production Cross Section -10.24 To 9999. %



74

Incident Energy (eV)

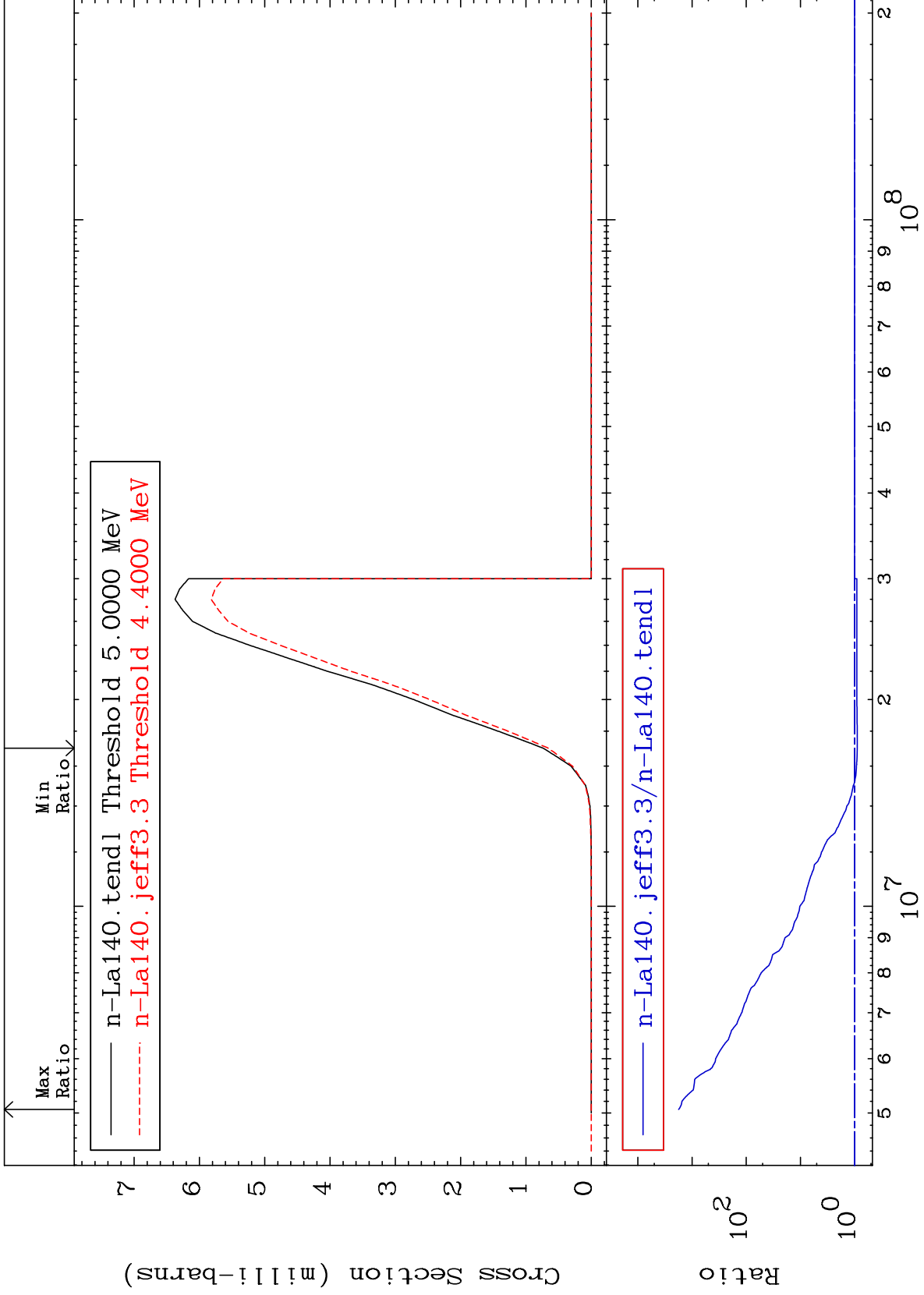
57-La-140

MAT 5731

(n,n') α :55-Cs-136m1

57-La-140

Radionuclide Production Cross Section -10.53 To 9999. %



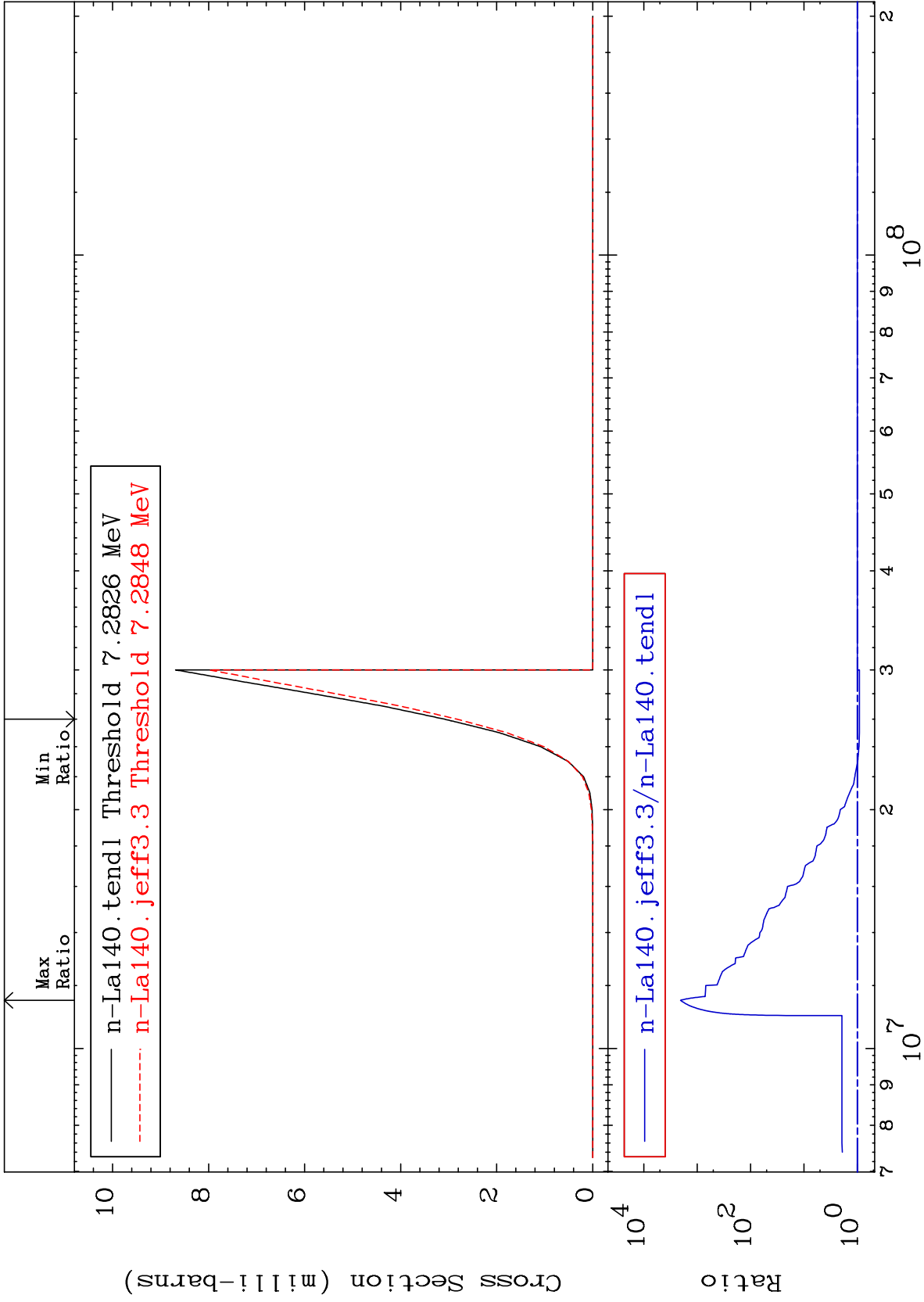
75

Incident Energy (eV)

57-La-140

MAT 5731

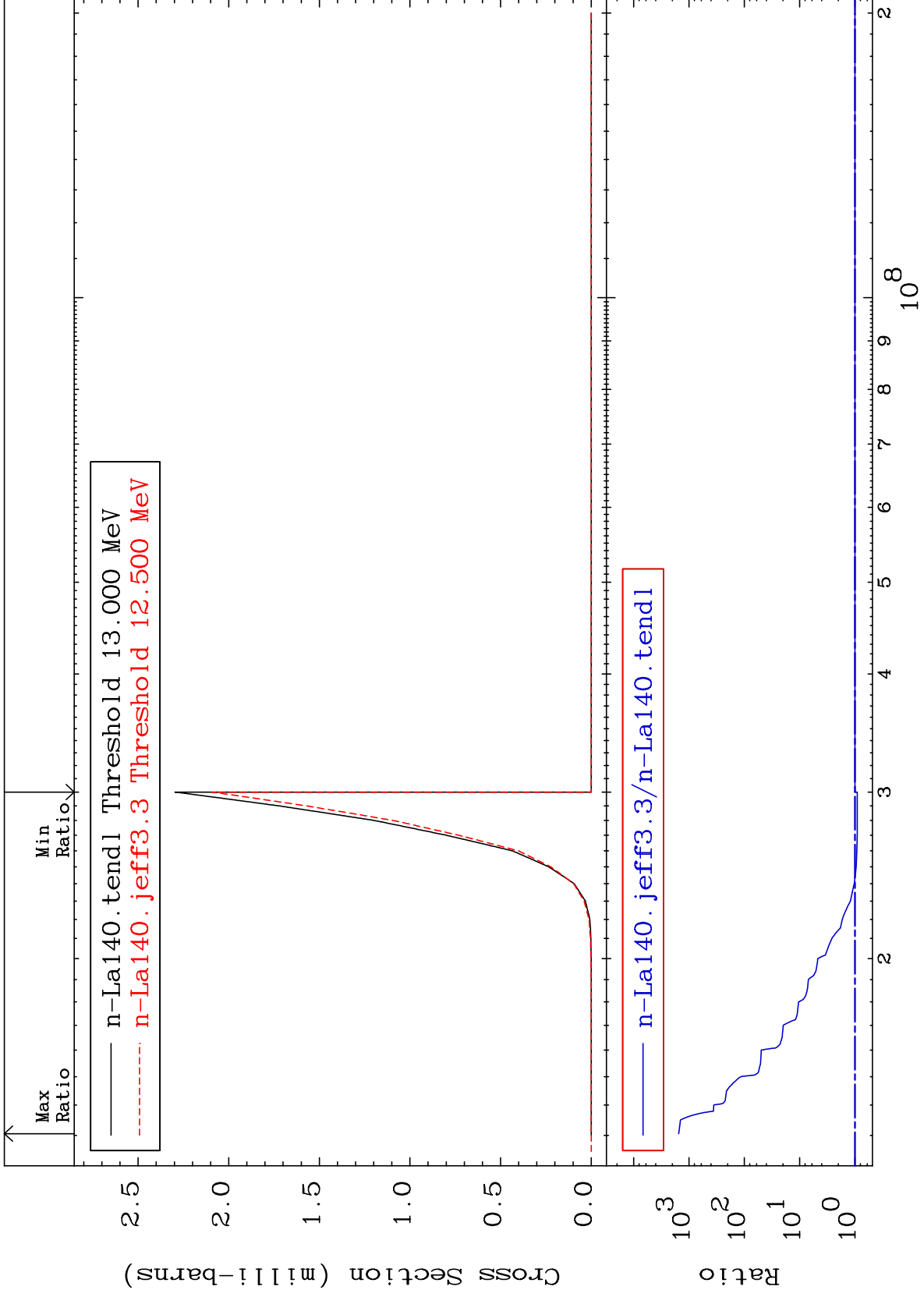
(n,2n) α :55-Cs-135g 57-La-140
Radionuclide Production Cross Section -8.392 To 9999. %

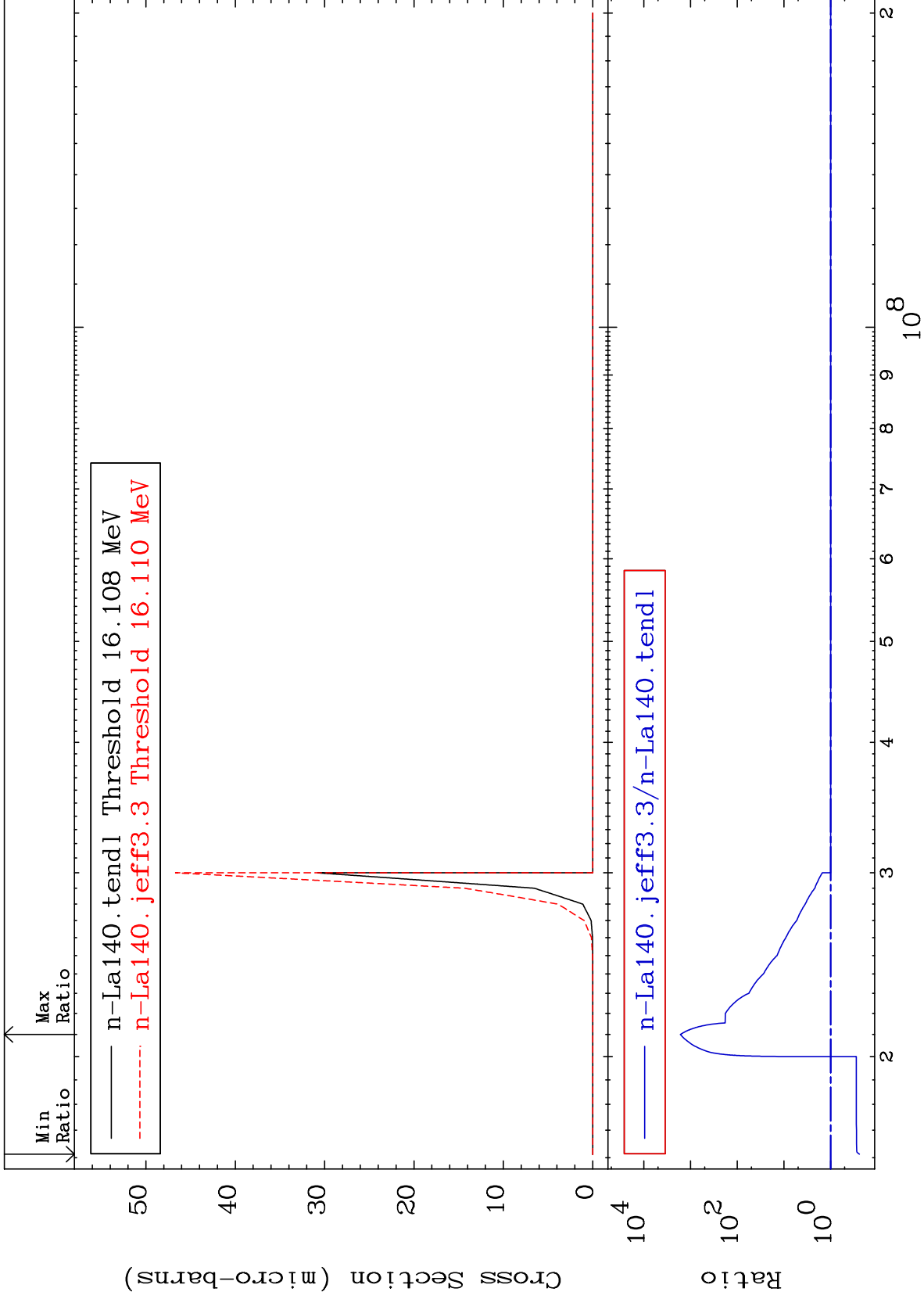


76

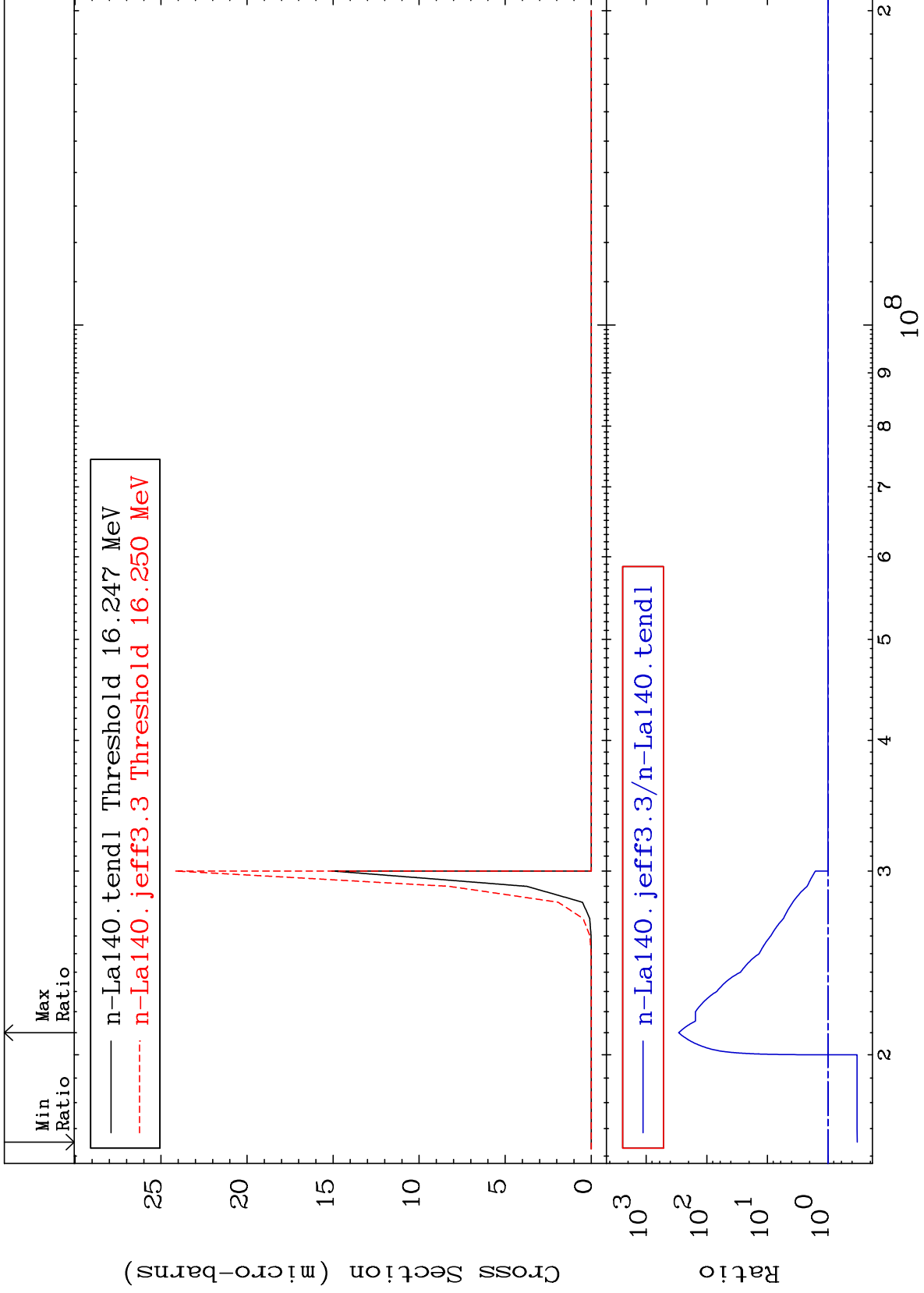
57-La-140

Radionuclide Production Cross Section -8.902 To 9999. %



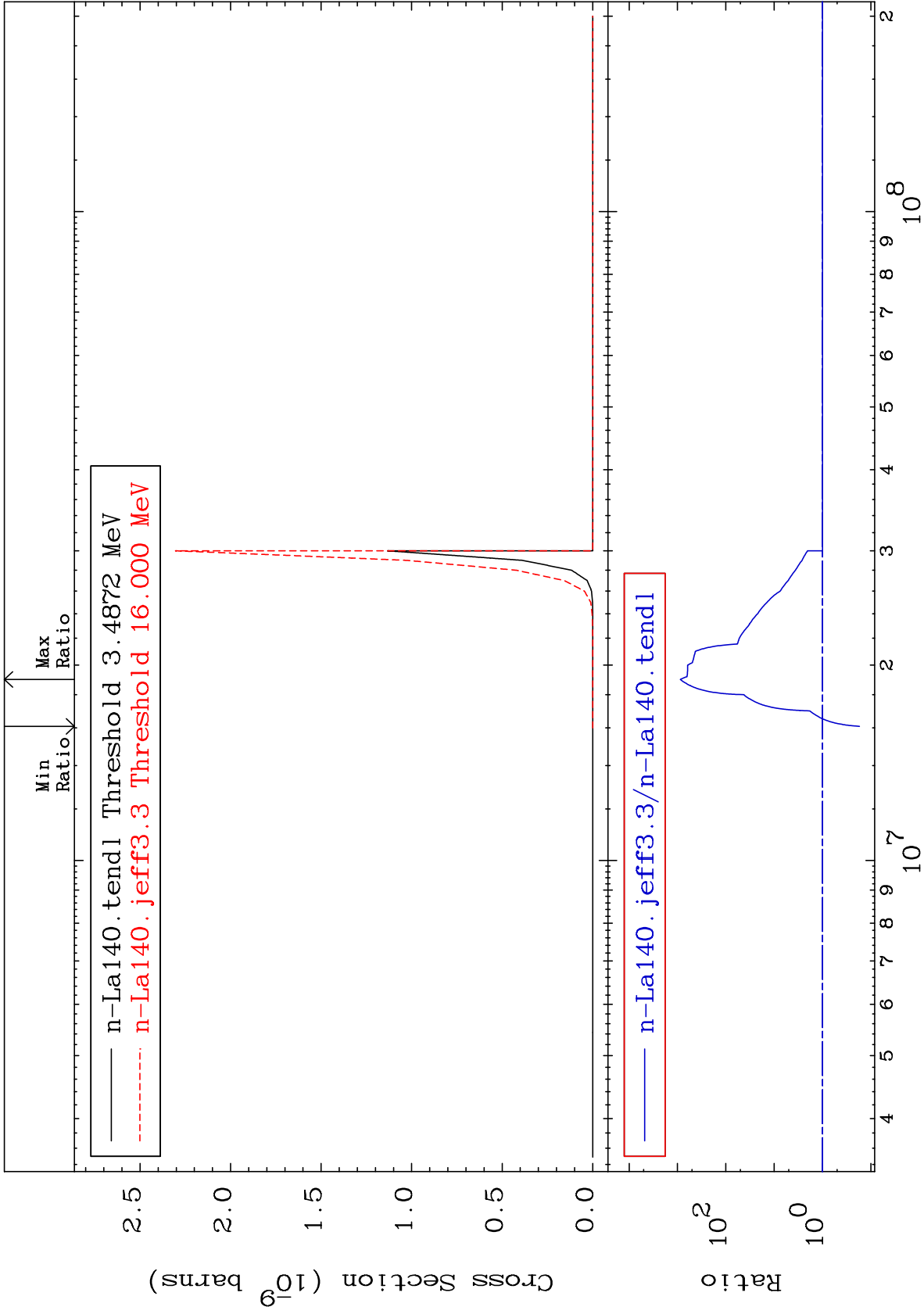


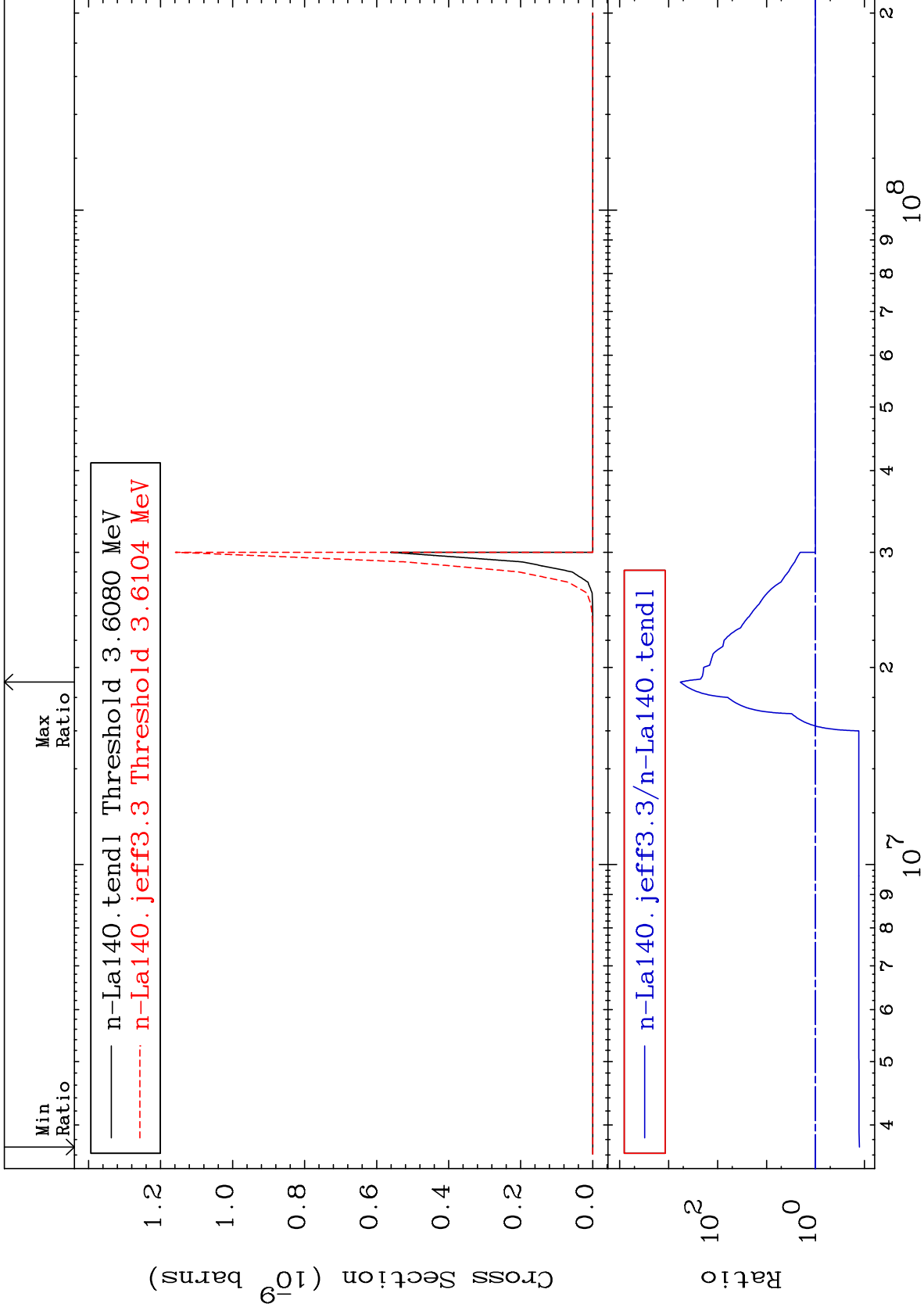
Radionuclide Production Cross Section -67.16 To 9999. %



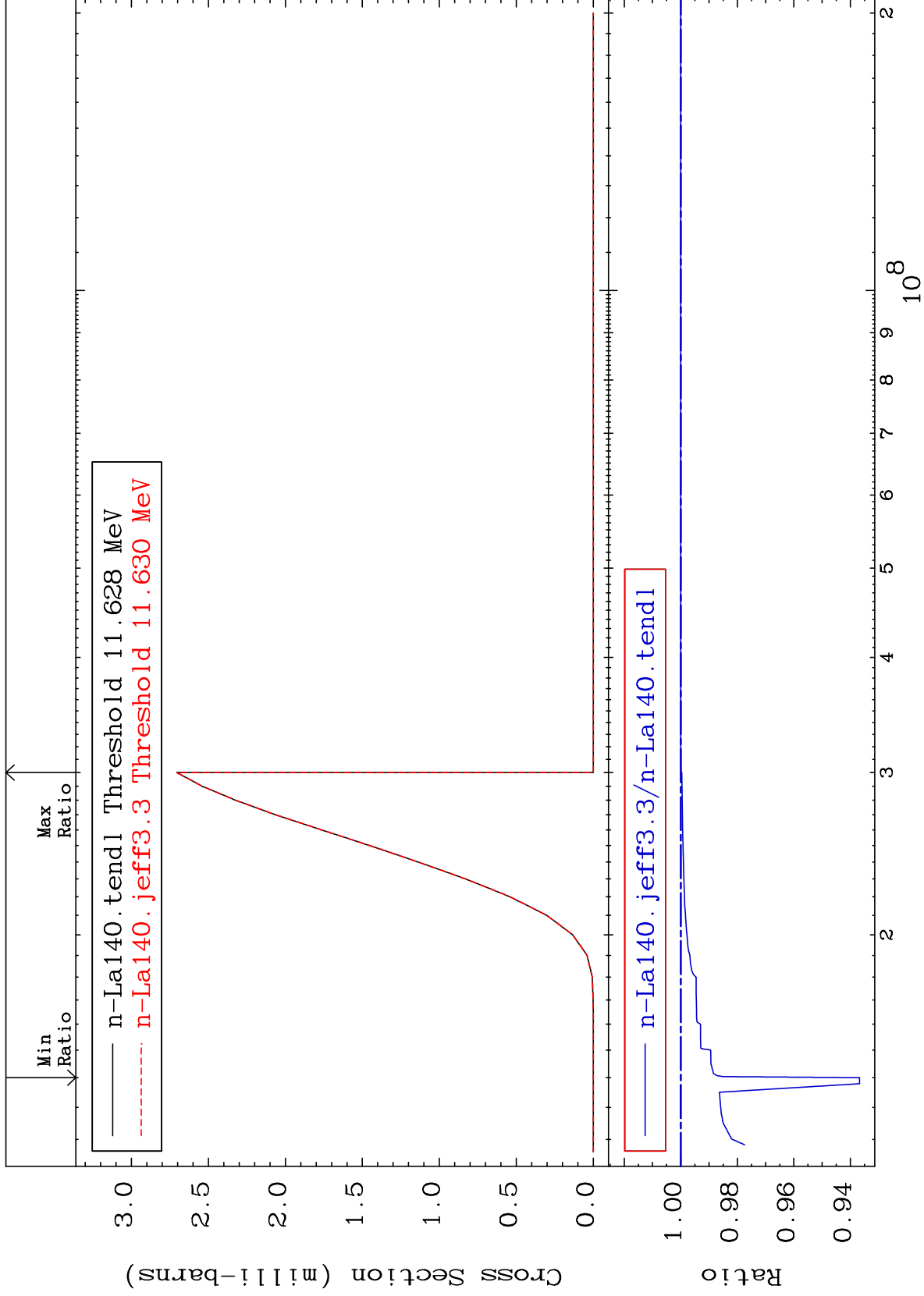
MAT 5731

(n,n') 2α:53-I -132g 57-La-140
Radionuclide Production Cross Section -82.81 To 9999. %

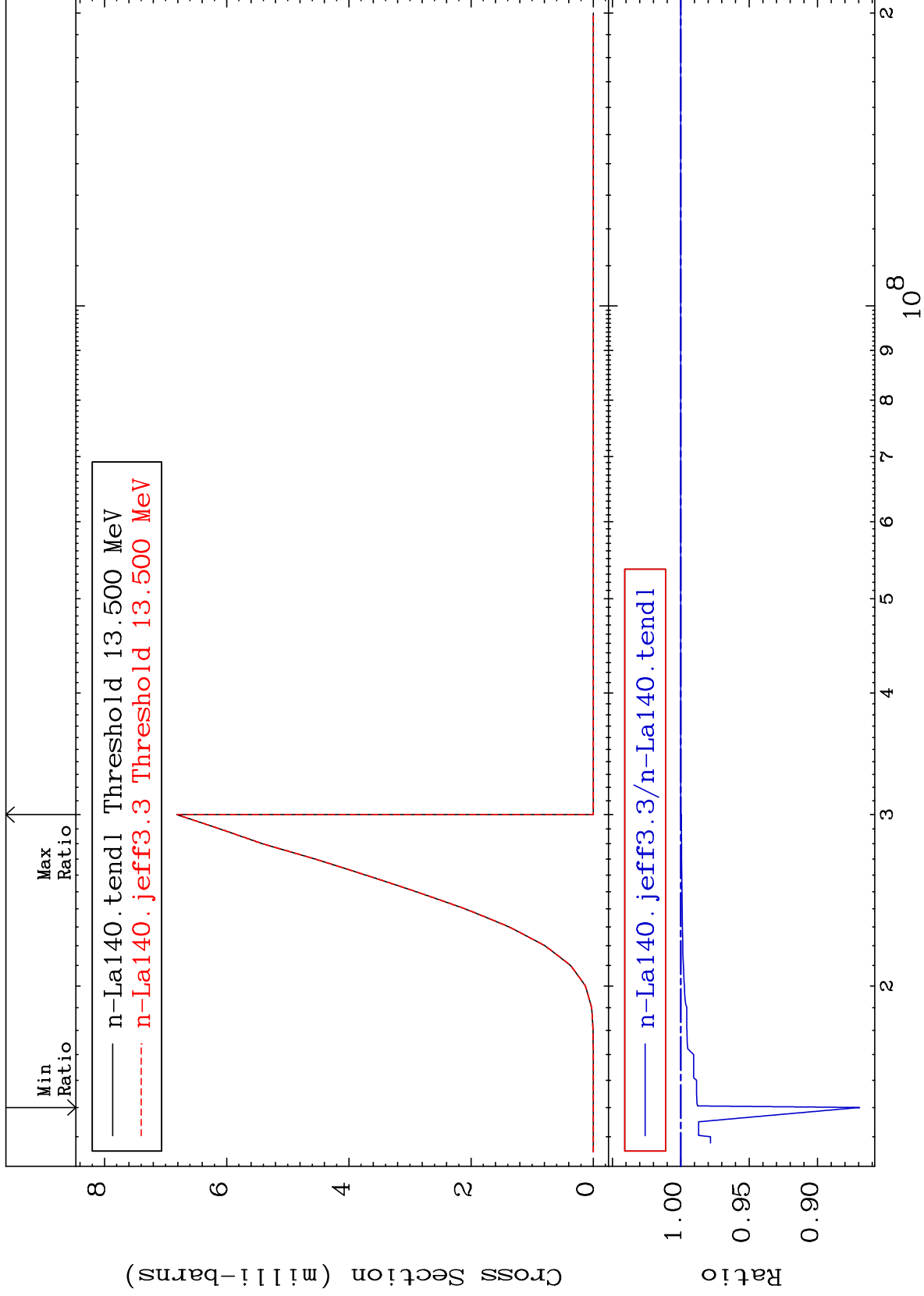




Radionuclide Production Cross Section -6.324 To 0.000 %



Radionuclide Production Cross Section -13.07 To 0.000 %

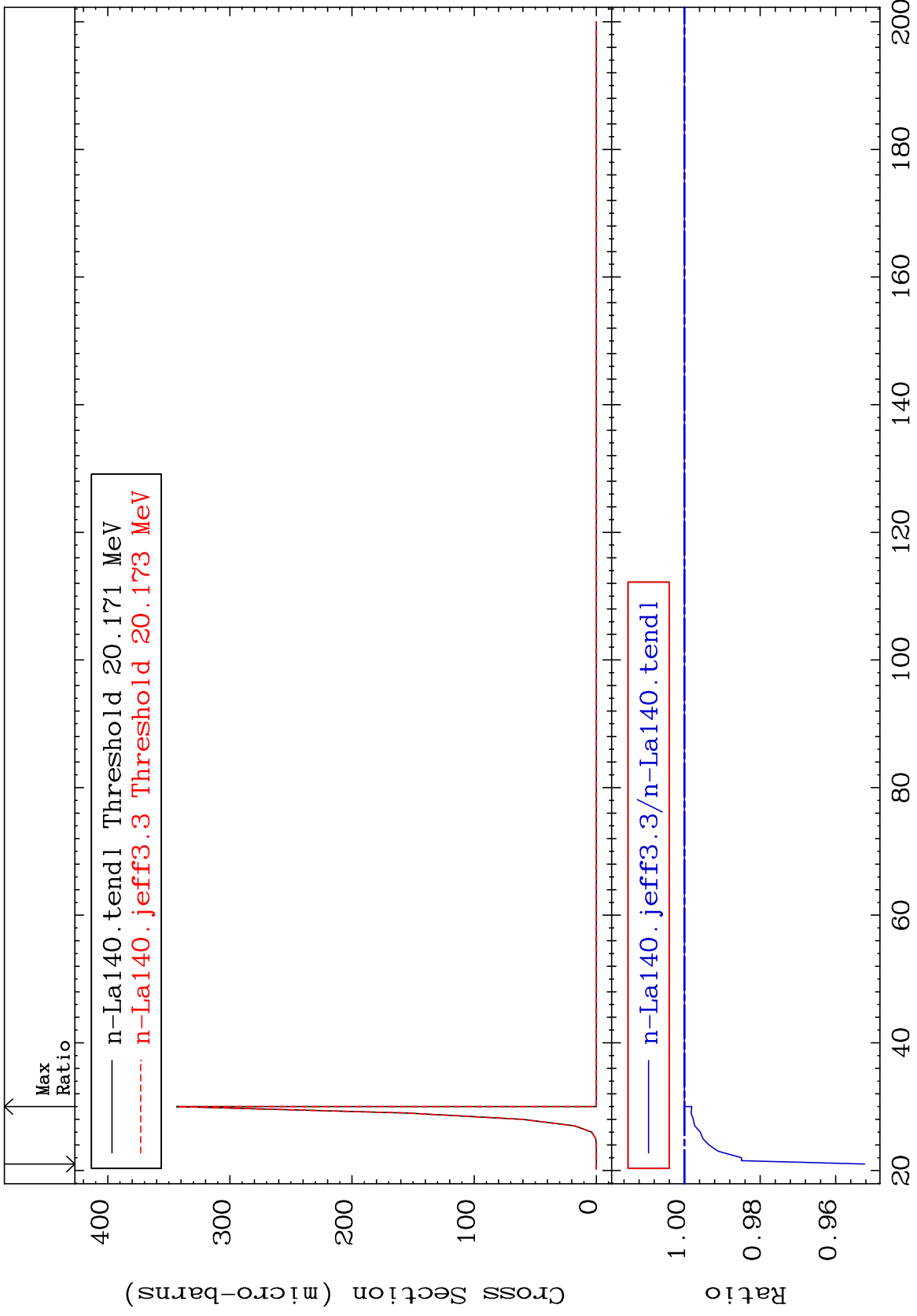


MAT 5731

(n,3n) p:56-Ba-137g

57-La-140

Radionuclide Production Cross Section -4.766 To 0.000 %



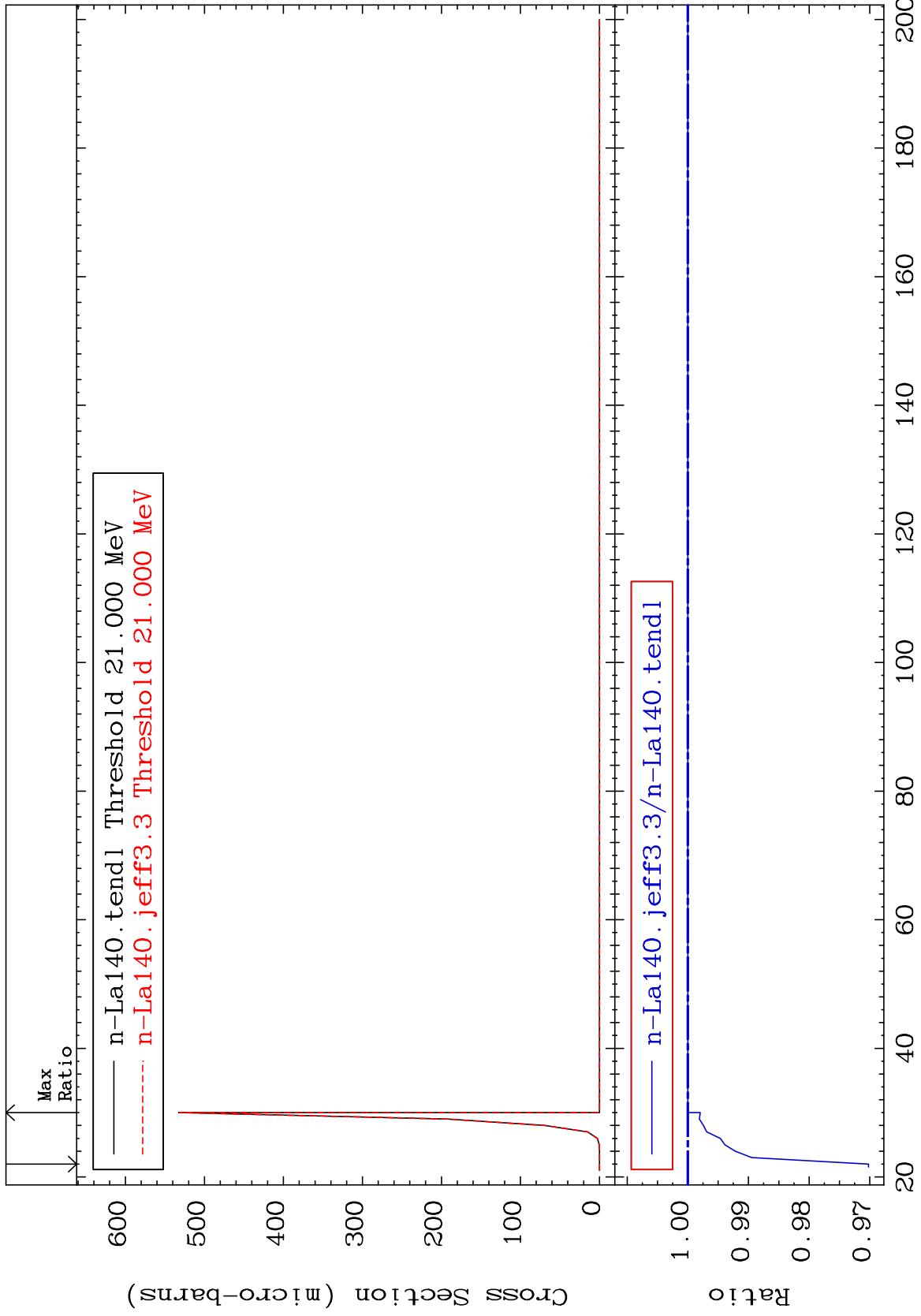
MAT 5731

(n,3n) p:56-Ba-137m2

57-La-140

Radionuclide Production Cross Section

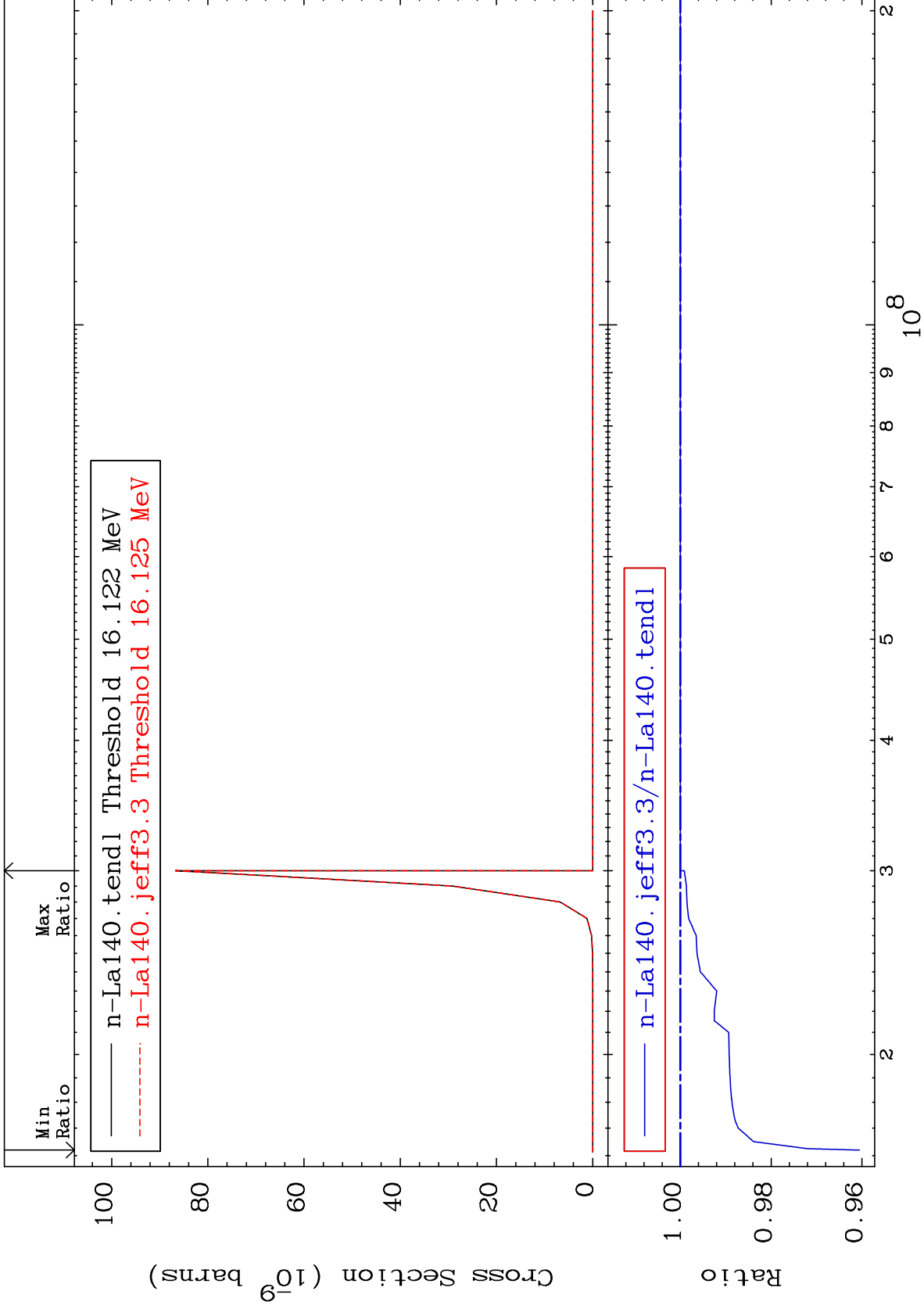
-2.980 To 0.000 %



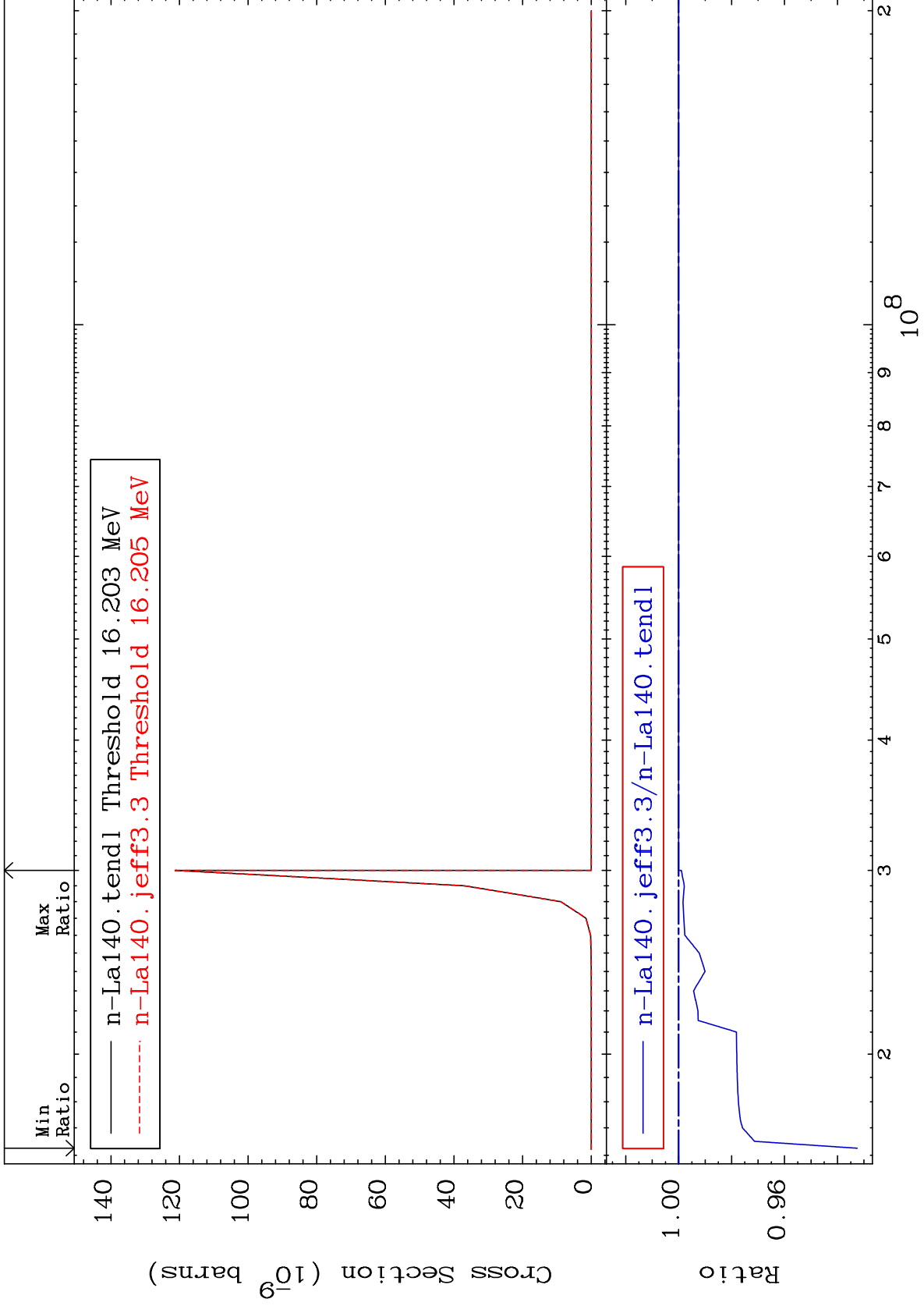
85

Incident Energy (MeV)

57-La-140

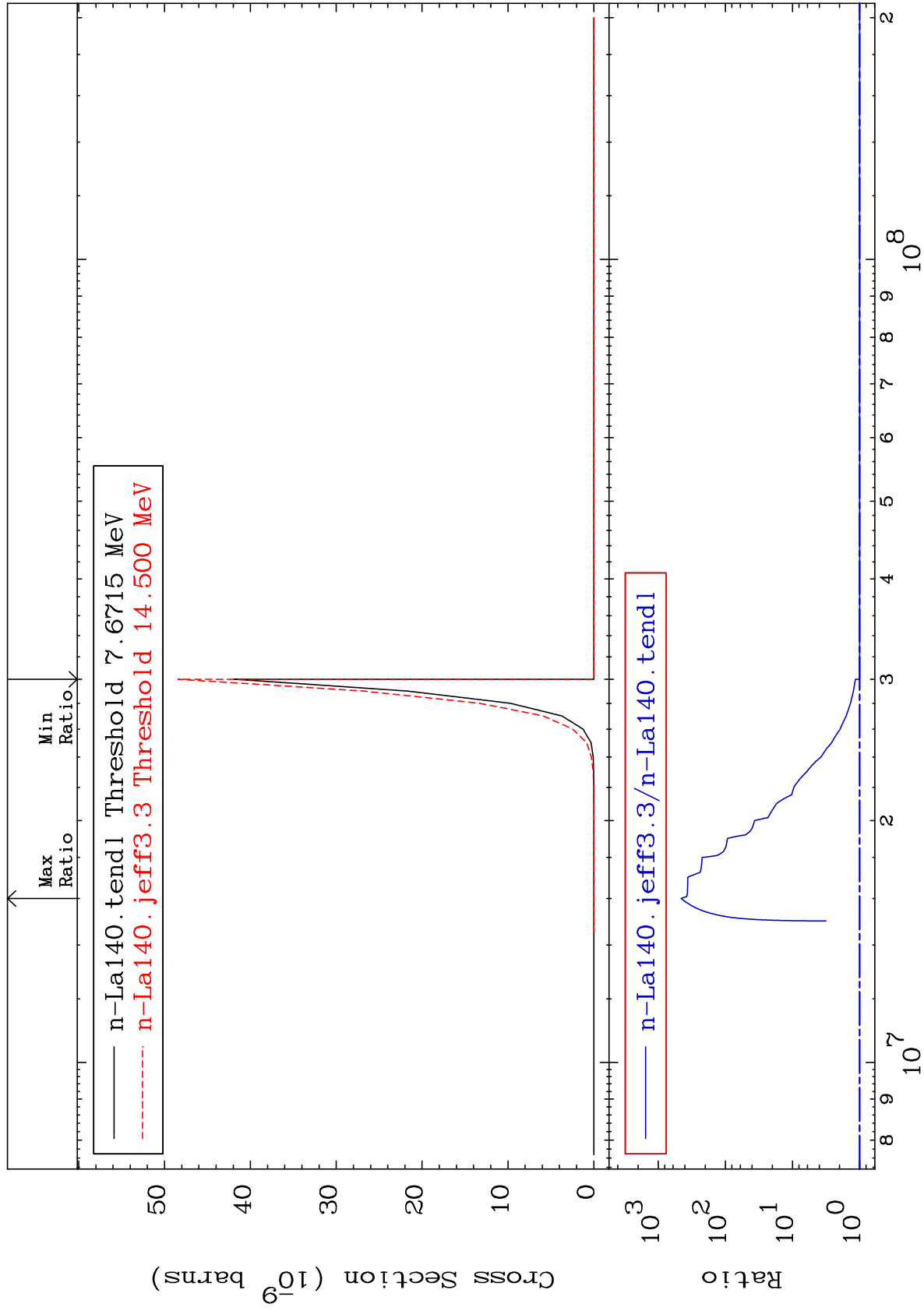


Radionuclide Production Cross Section -6.746 To 0.000 %



MAT 5731

(n, n') p α :54-Xe-135g 57-La-140
Radionuclide Production Cross Section 0.000 To 9999. %



88

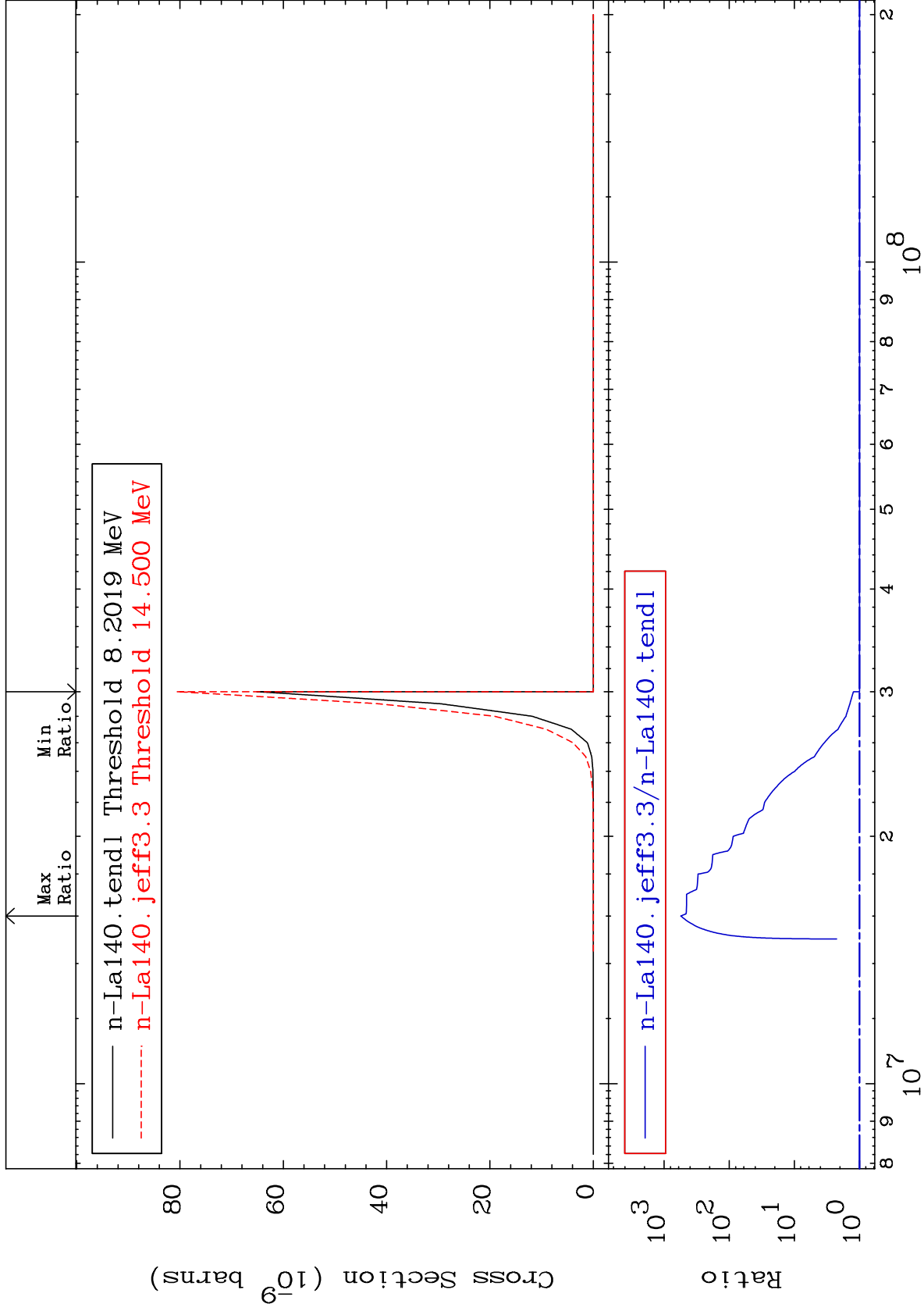
57-La-140

MAT 5731

(n, n') p α :54-Xe-135m2

57-La-140

Radionuclide Production Cross Section 0.000 To 9999. %



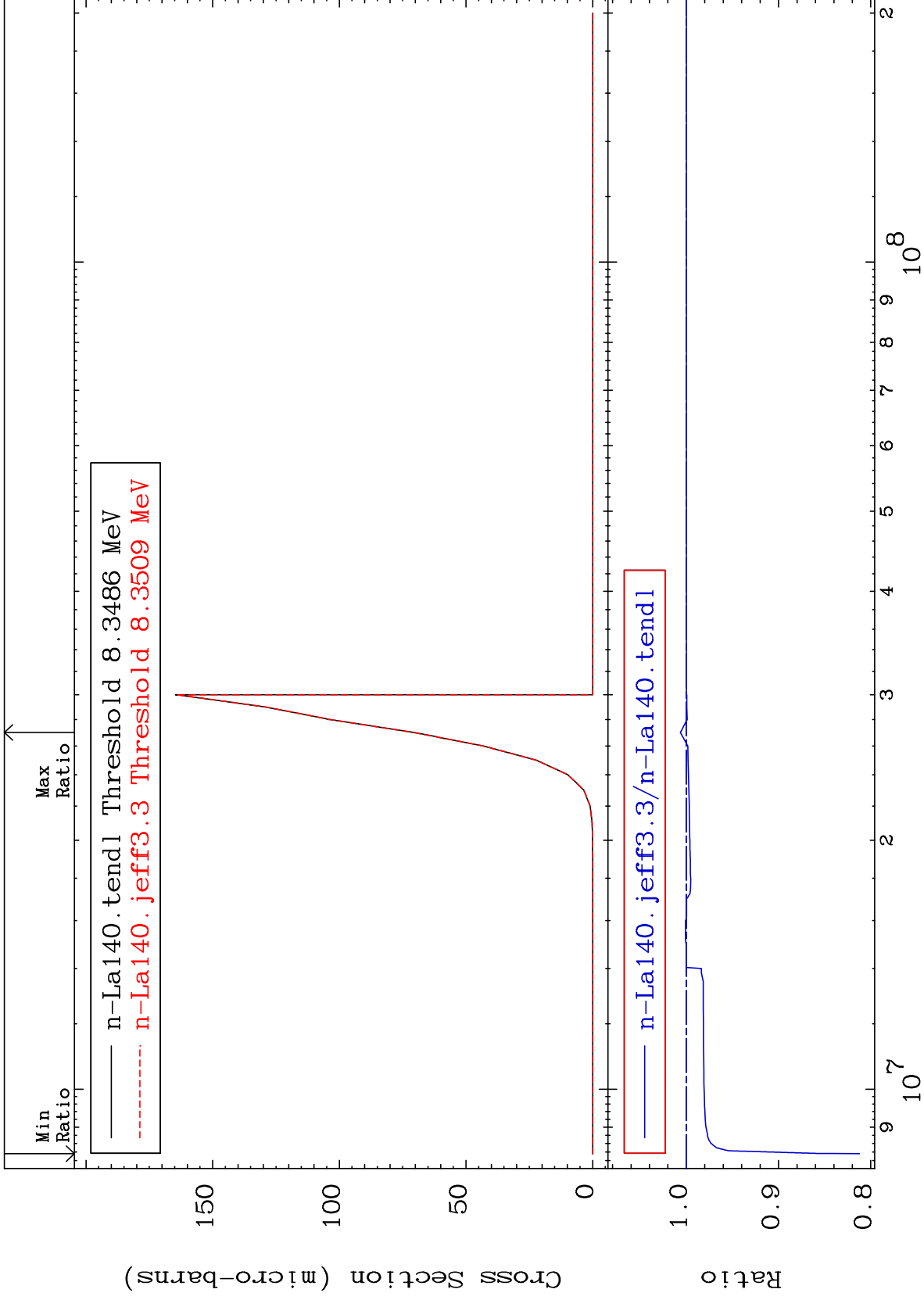
89

Incident Energy (eV)

57-La-140

MAT 5731

(n,He-3):55-Cs-138g 57-La-140
Radionuclide Production Cross Section -18.77 To 0.649 %



90

Incident Energy (eV)

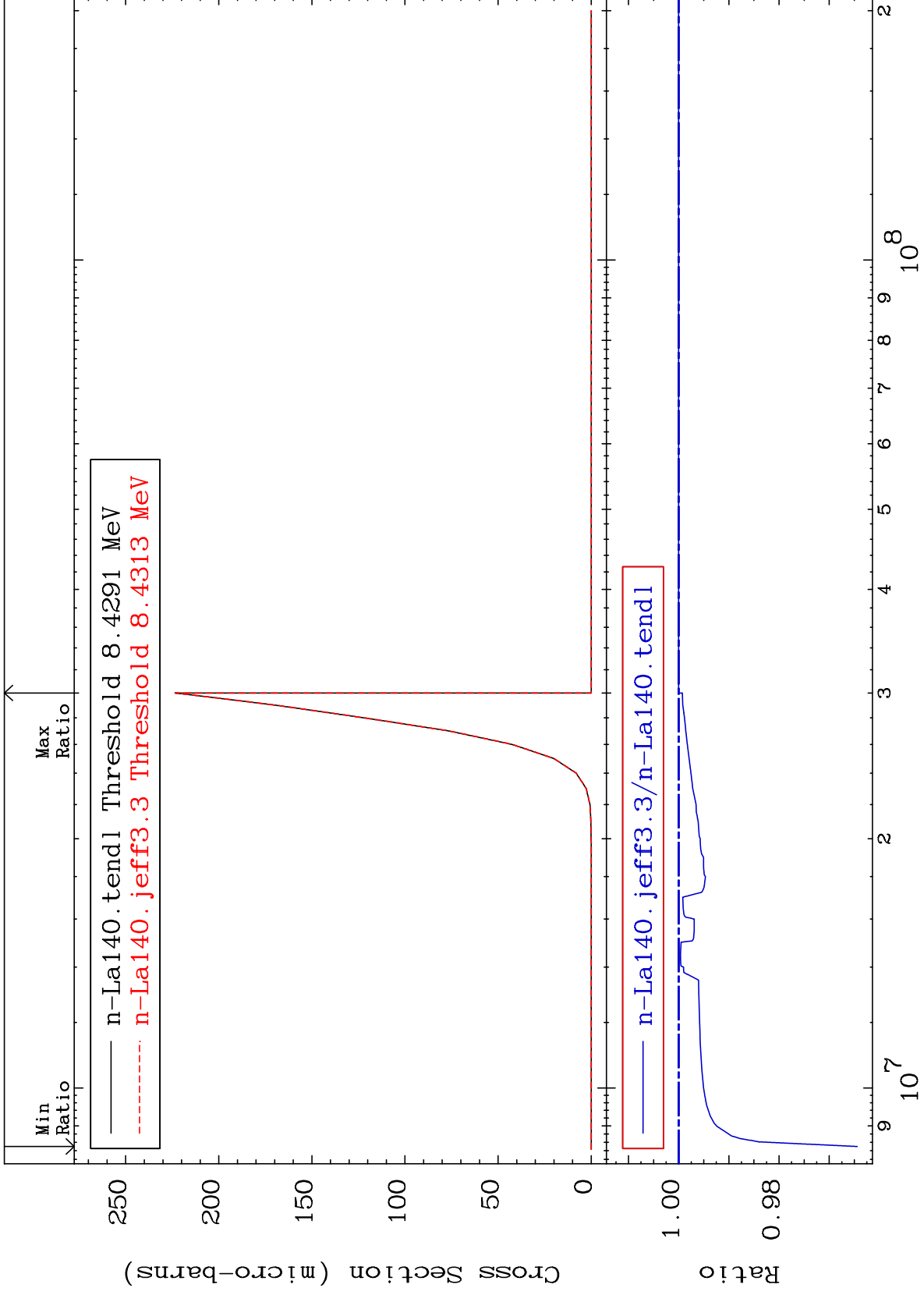
57-La-140

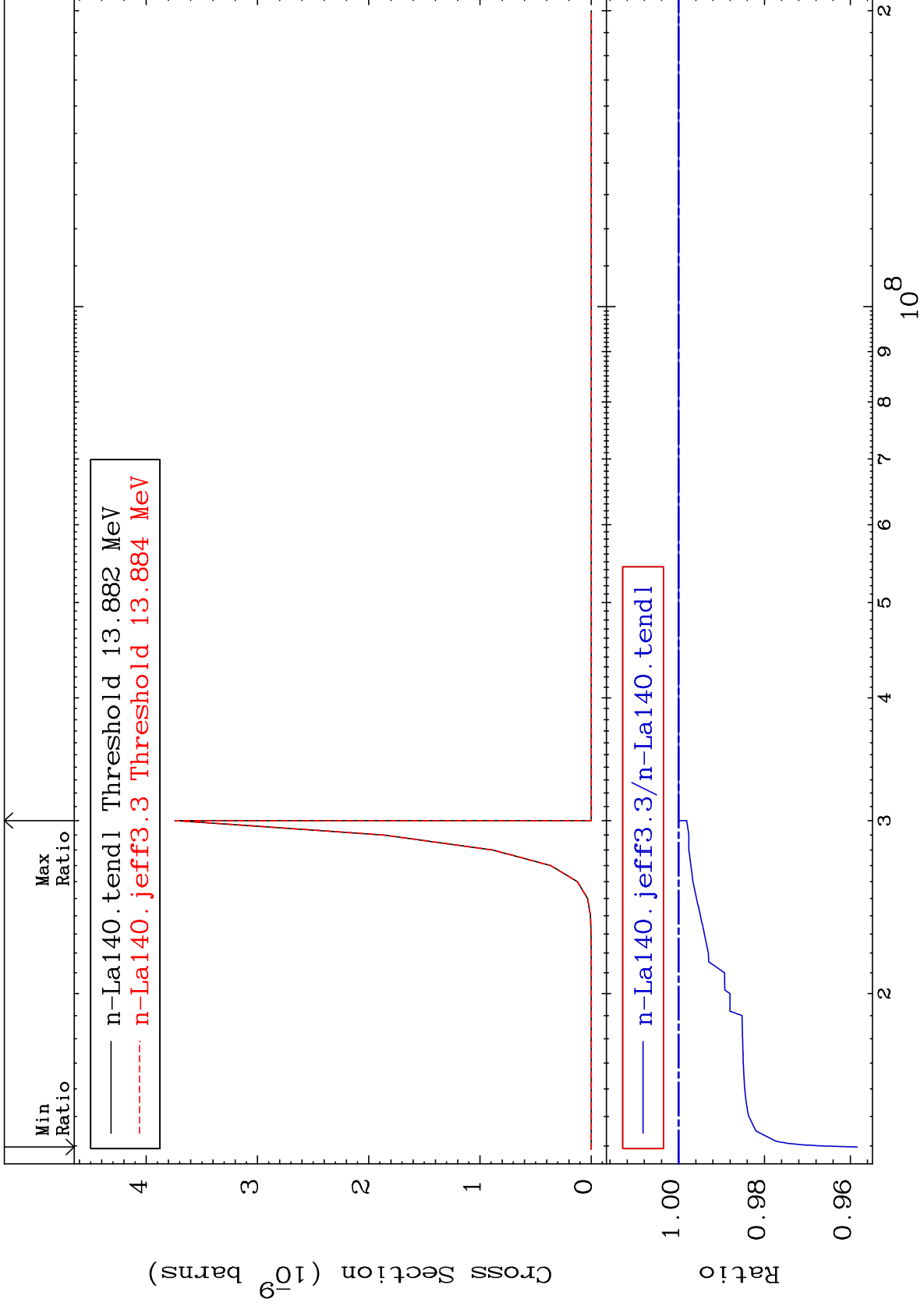
MAT 5731

(n,He-3):55-Cs-138m3

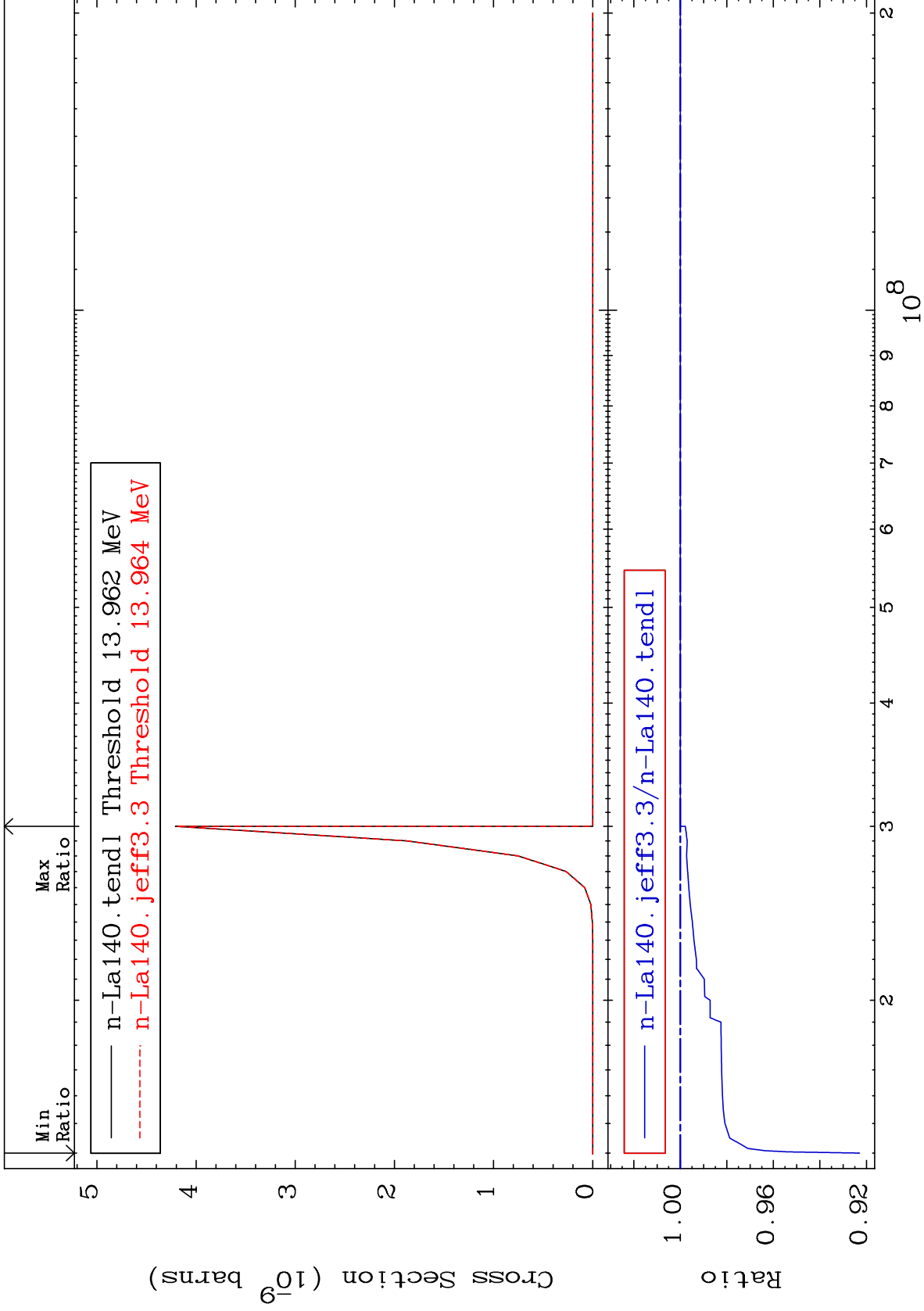
57-La-140

Radionuclide Production Cross Section -3.558 To 0.000 %





Radionuclide Production Cross Section -7.700 To 0.000 %

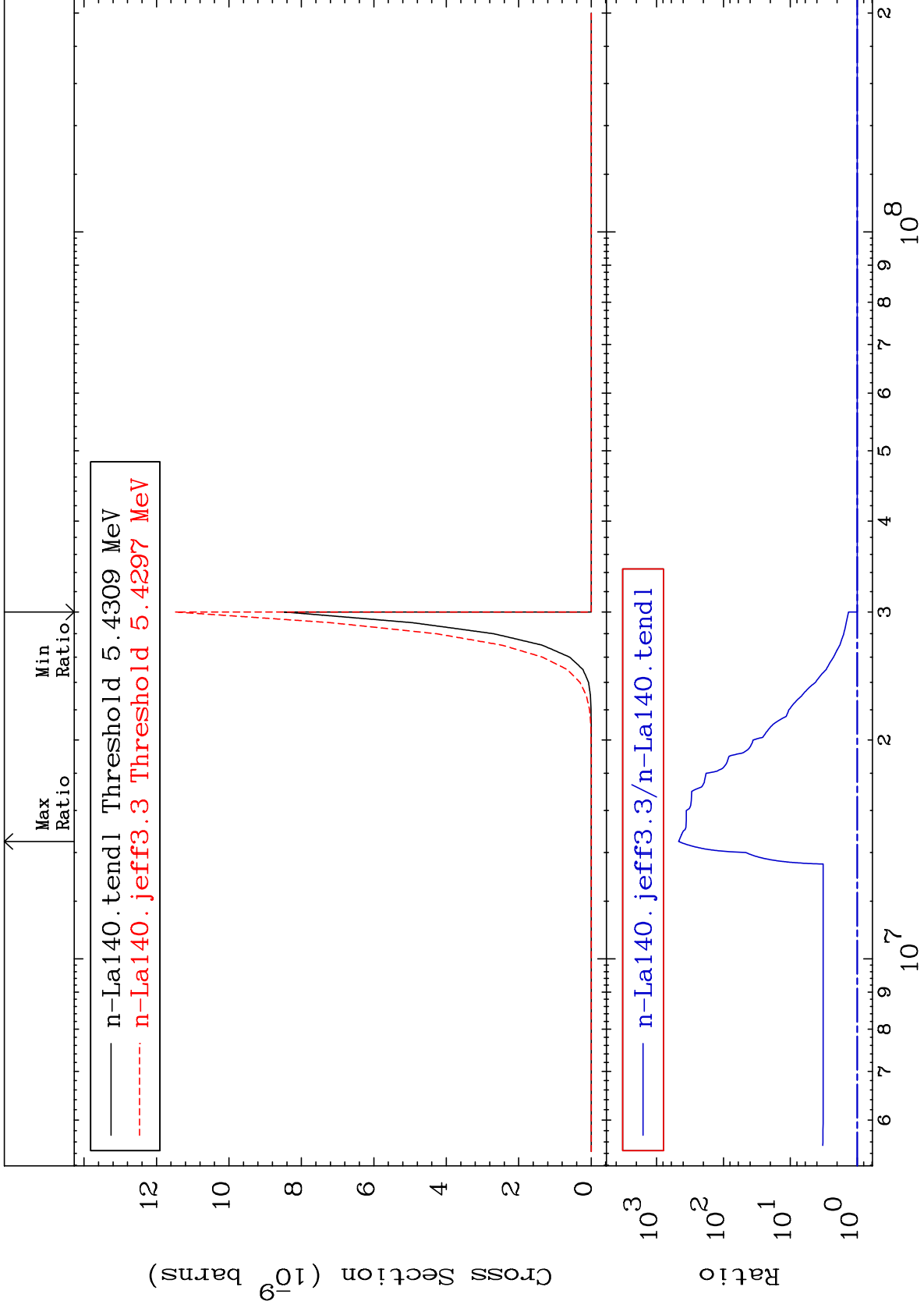


MAT 5731

(n, d) α :54-Xe-135g

57-La-140
To 9999. %

Radionuclide Production Cross Section 0.000



MAT 5731

(n,d) α :54-Xe-135m2 57-La-140
Radionuclide Production Cross Section 0.000 To 9999. %

