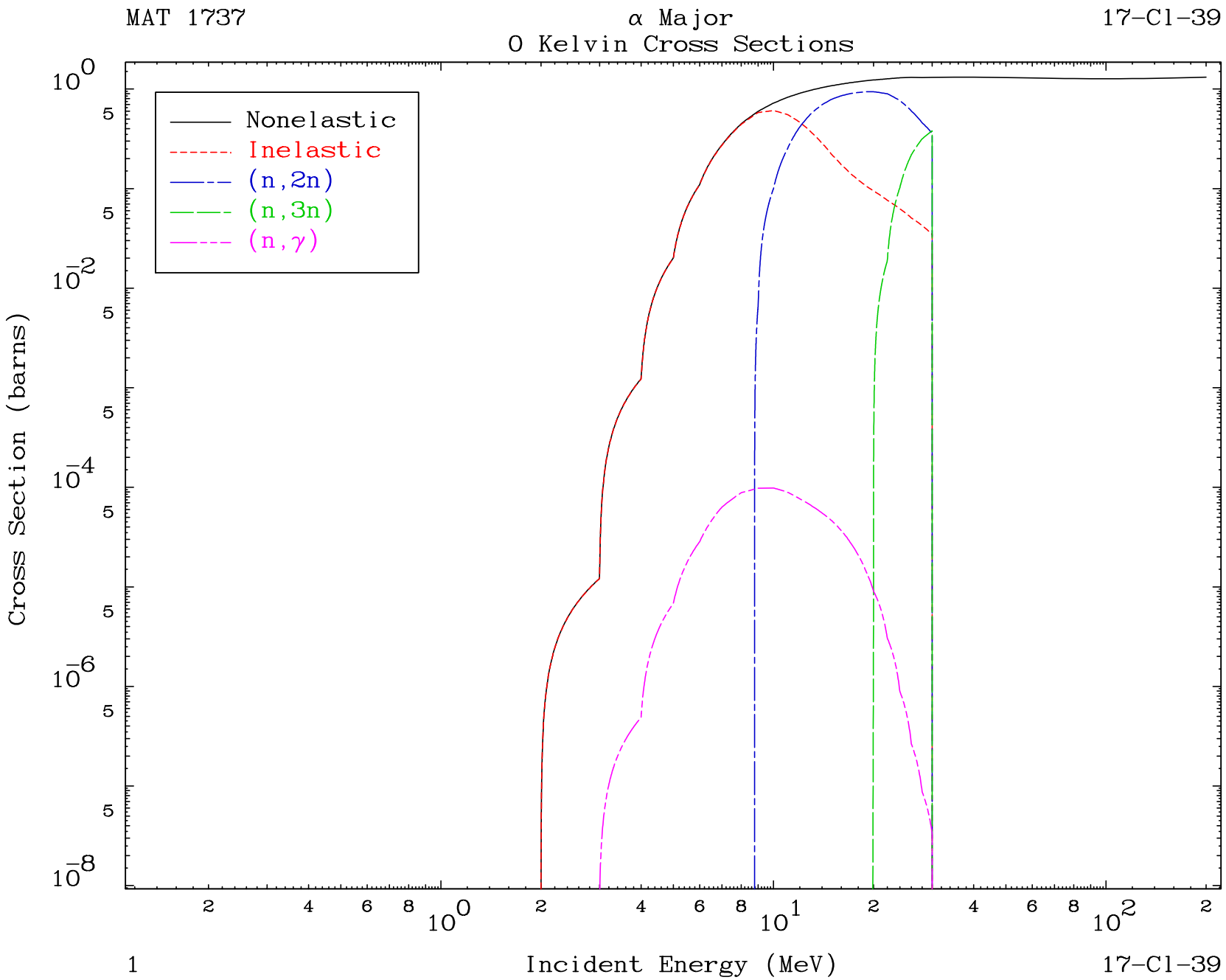
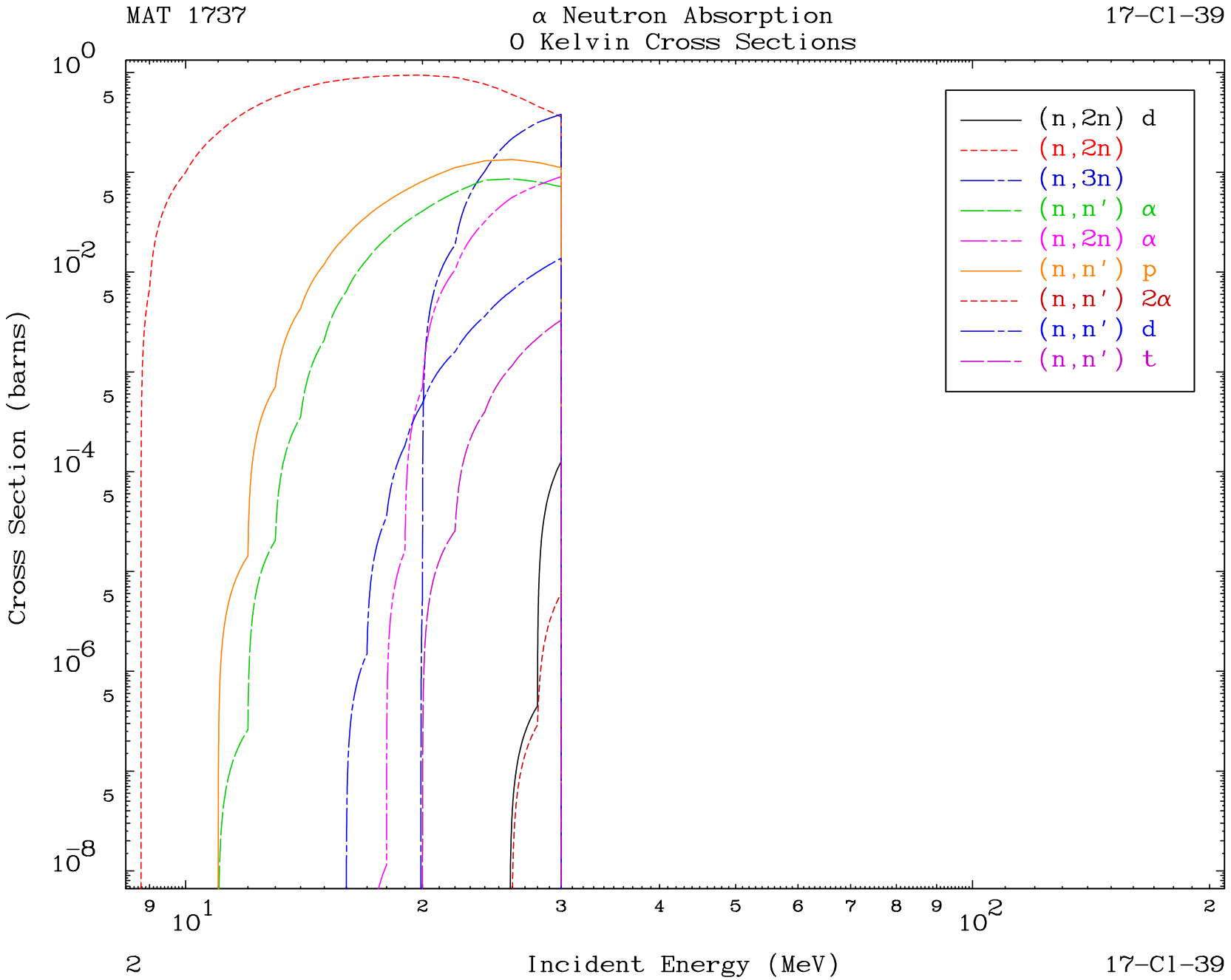
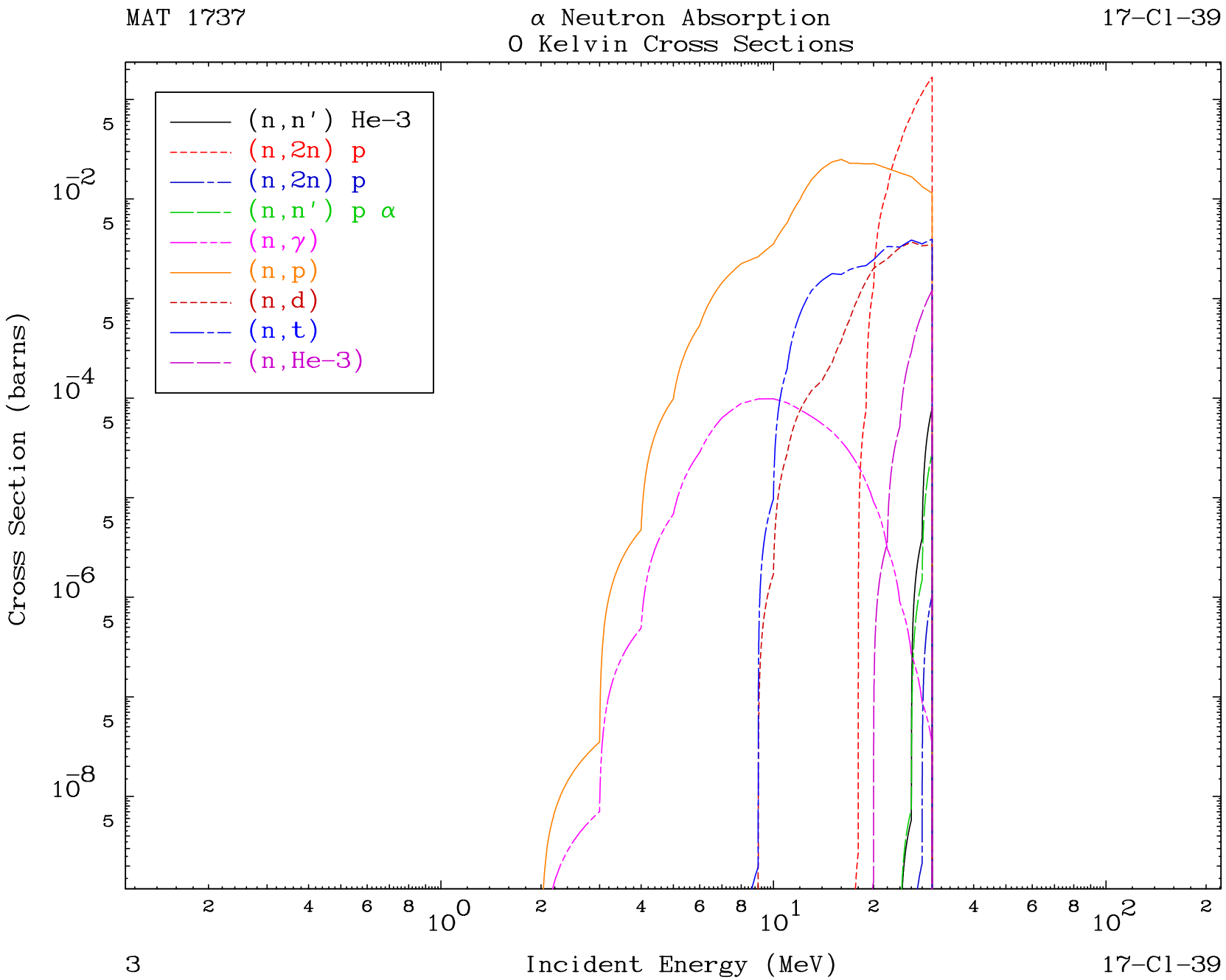
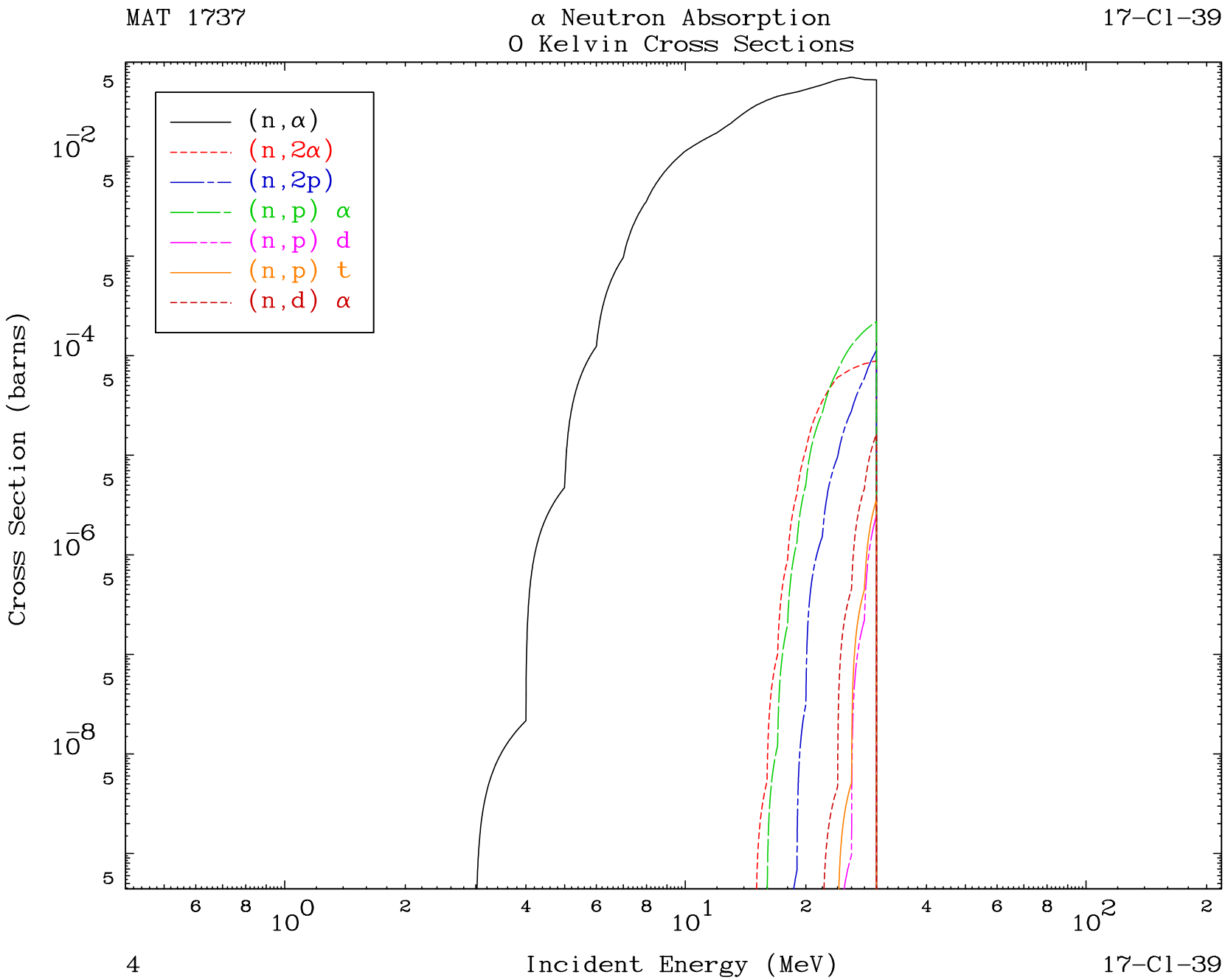
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

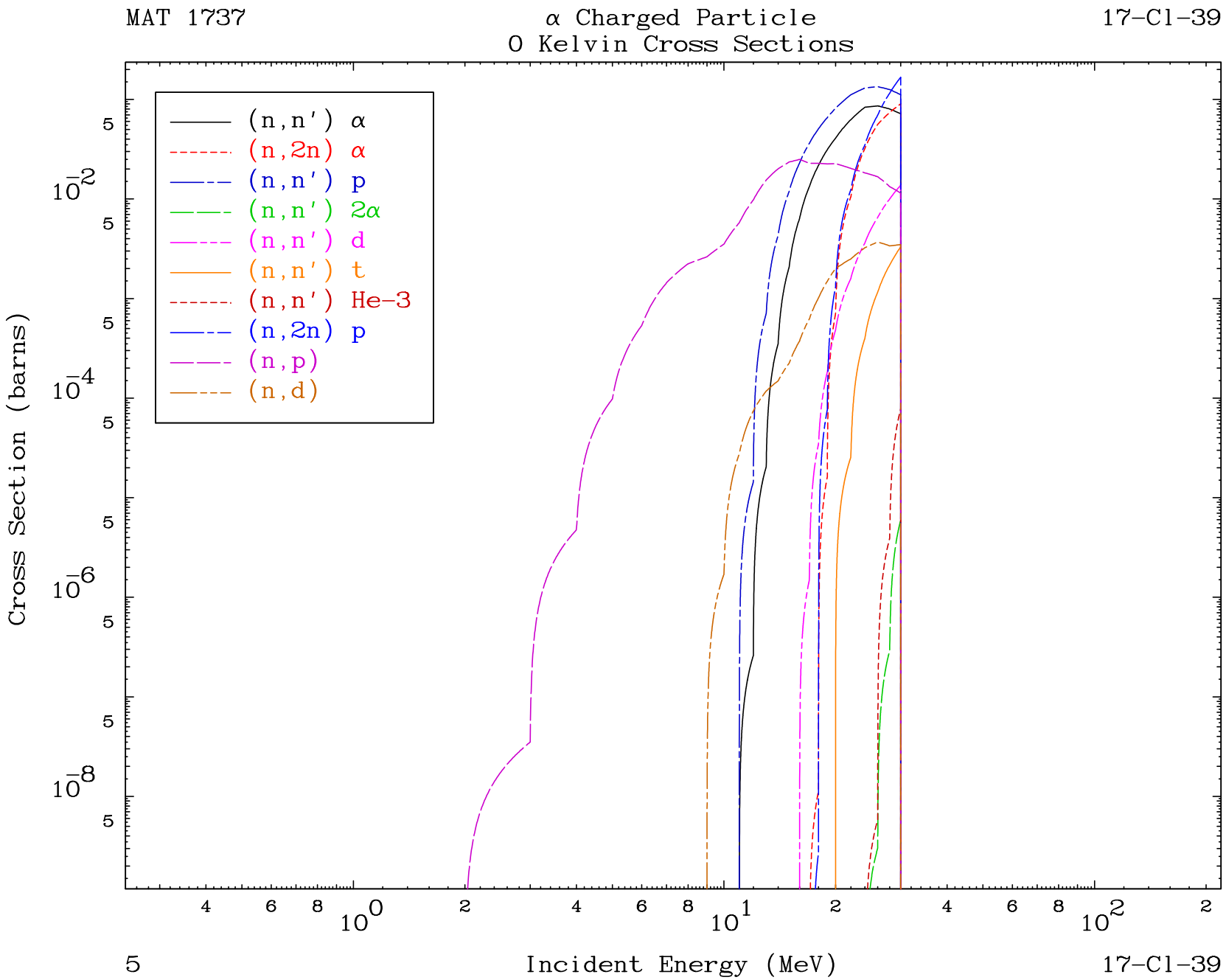
Press Mouse Button to Start

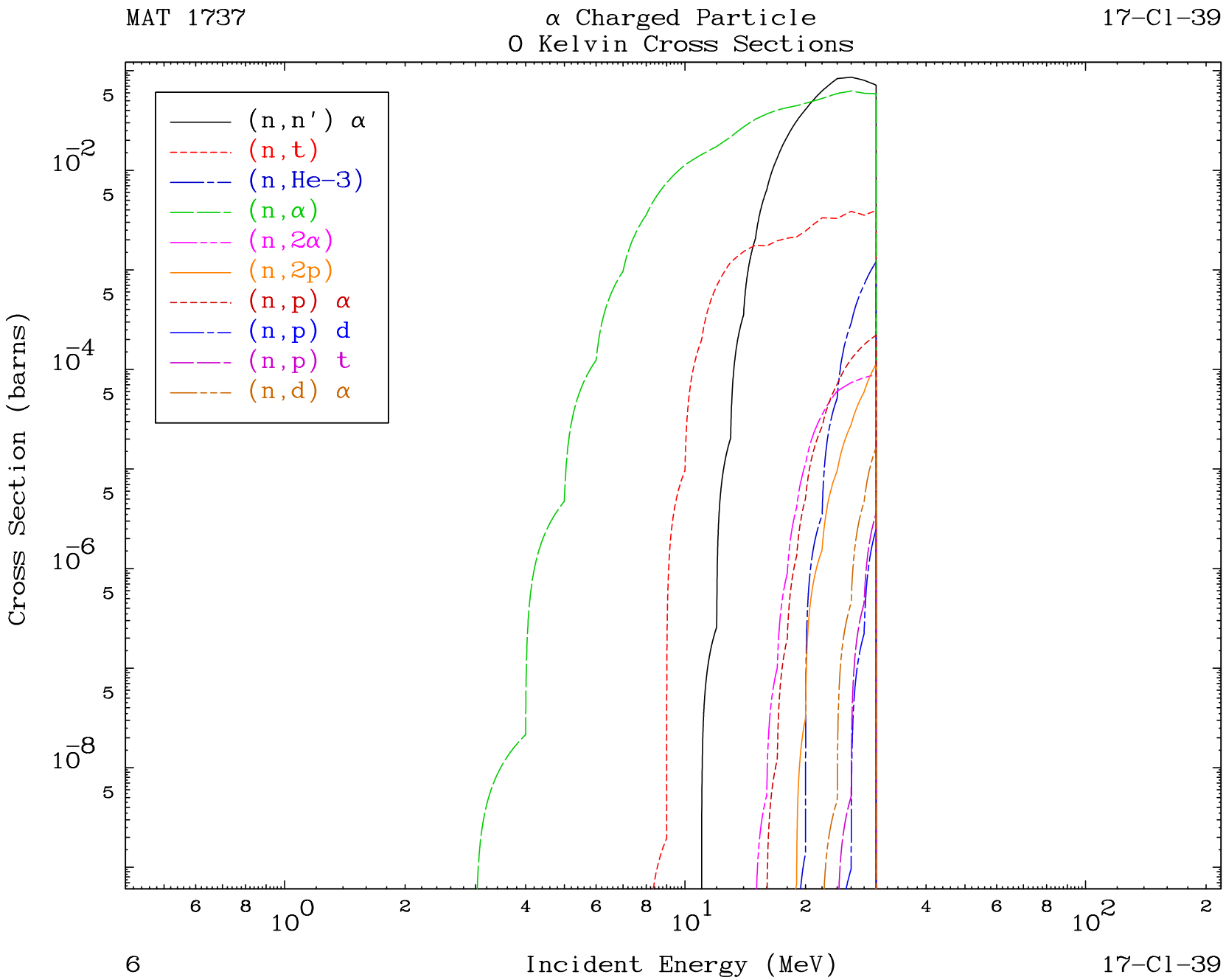

MAT 1737
α Major
17-Cl-39
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
17-Cl-39
1

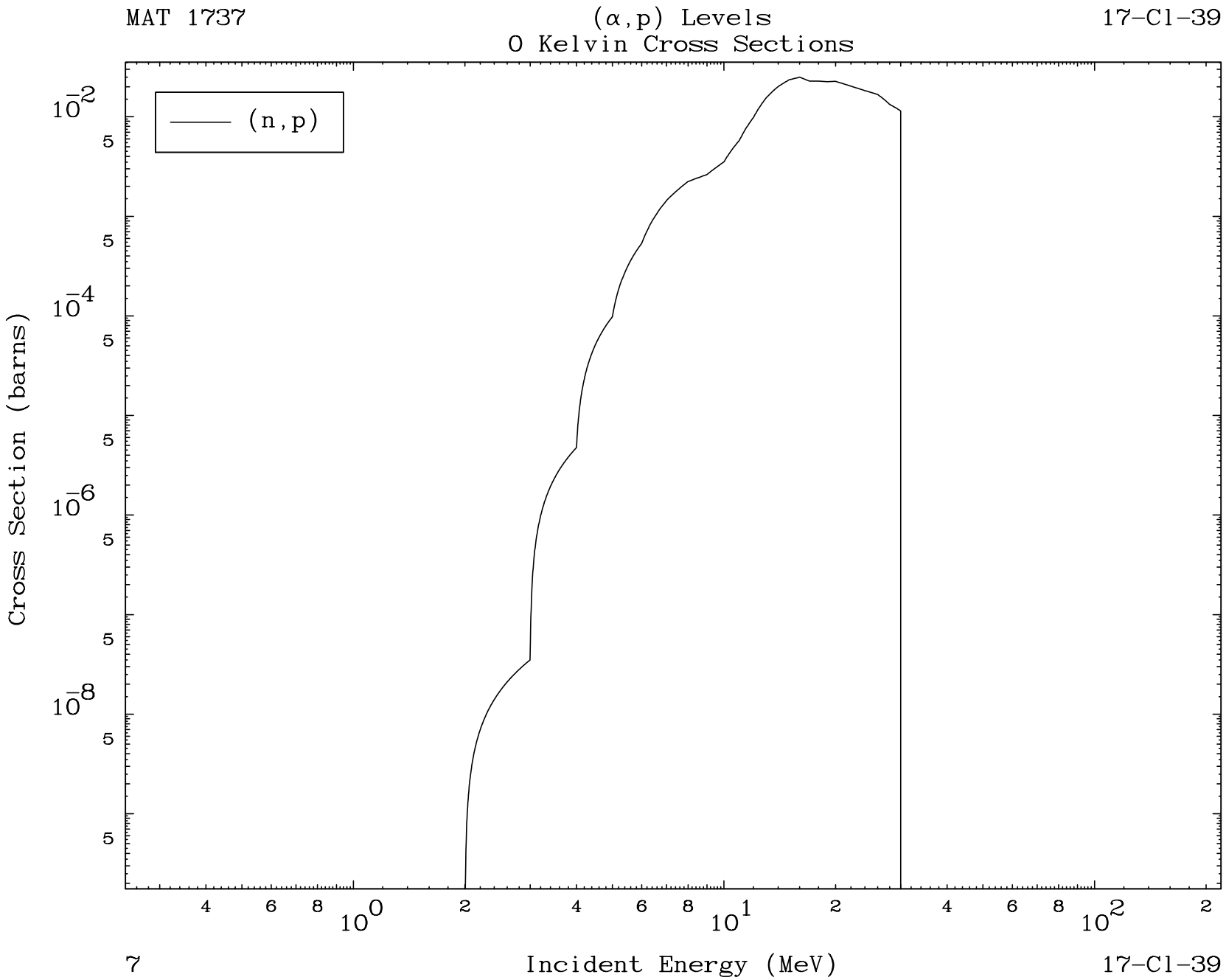

MAT 1737
α Neutron Absorption
0 Kelvin Cross Sections
17-Cl-39
Cross Section (barns)
Incident Energy (MeV)
17-Cl-39
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t

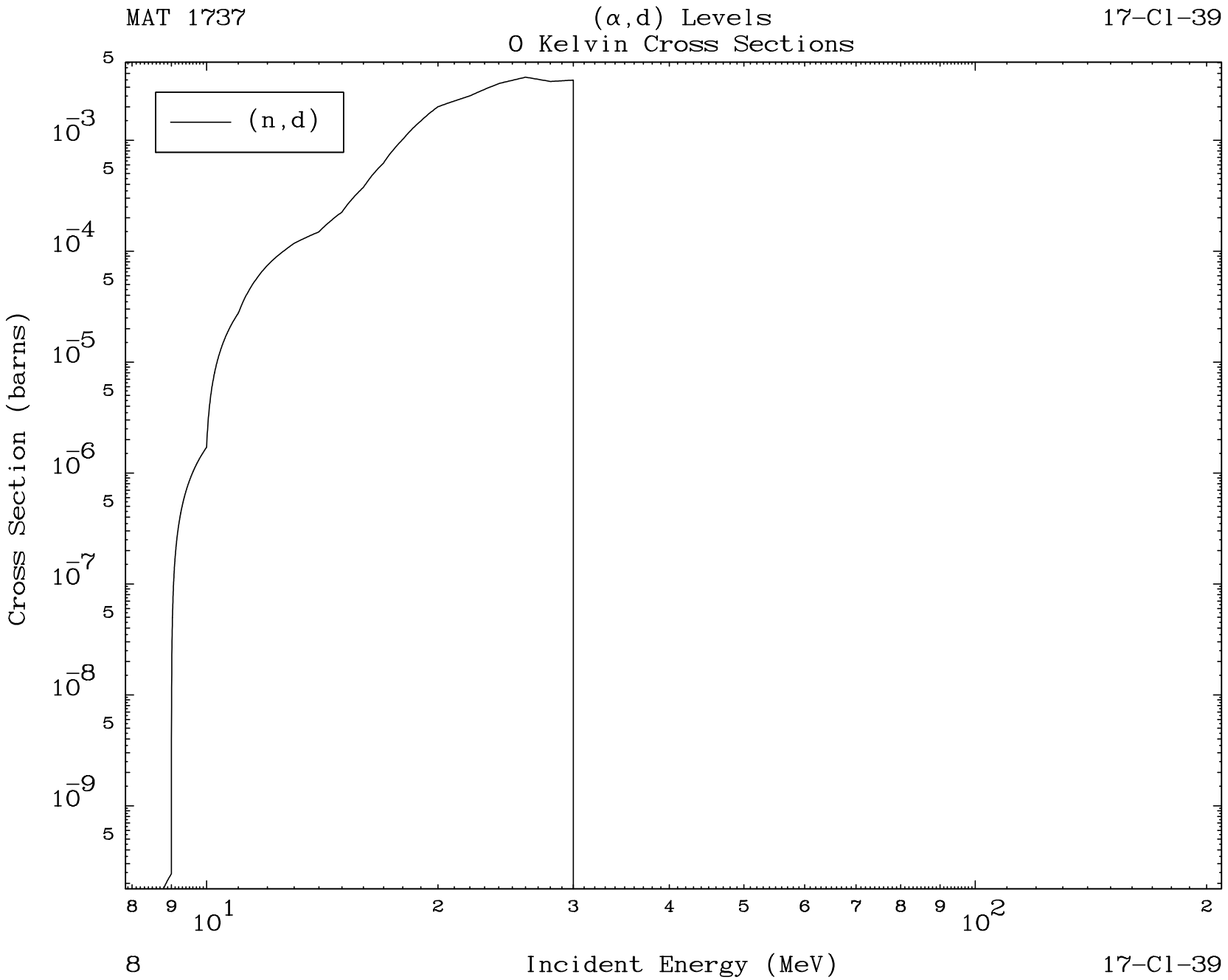

MAT 1737
α Neutron Absorption
0 Kelvin Cross Sections
17-Cl-39
(n,n') He-3
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
3
17-Cl-39

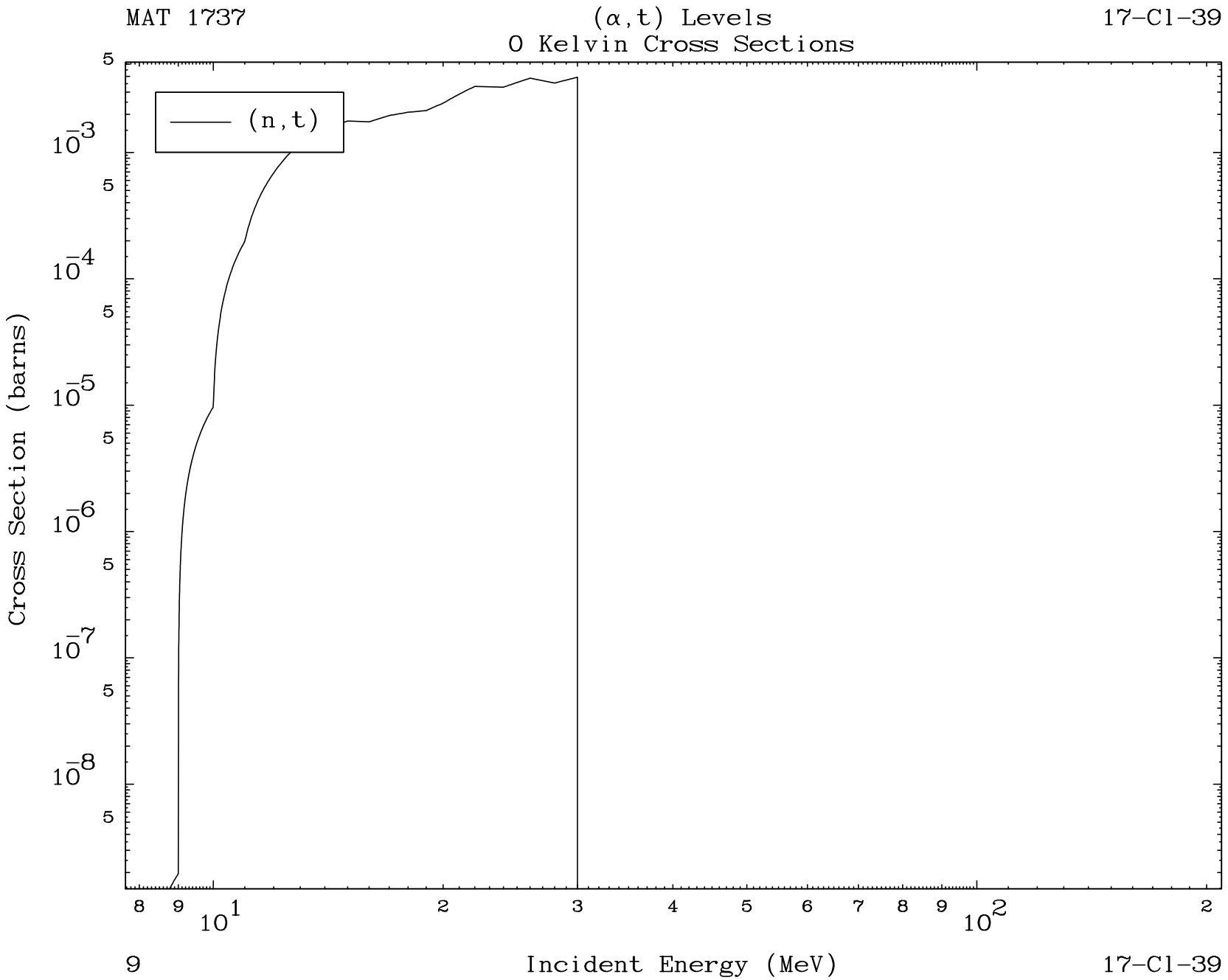

MAT 1737
α Neutron Absorption
0 Kelvin Cross Sections
17-Cl-39
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
17-Cl-39

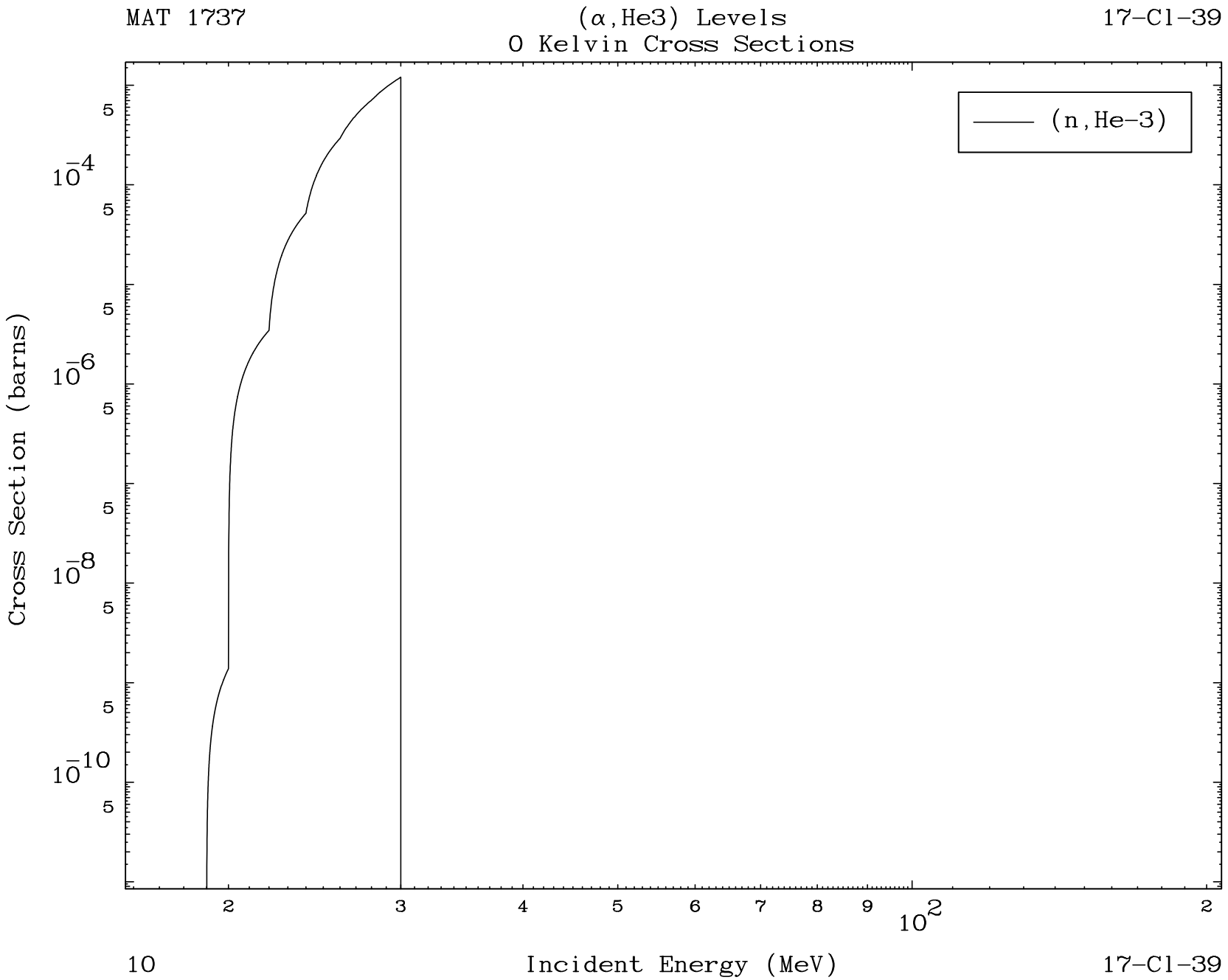

MAT 1737
α Charged Particle
0 Kelvin Cross Sections
17-Cl-39
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
5
17-Cl-39

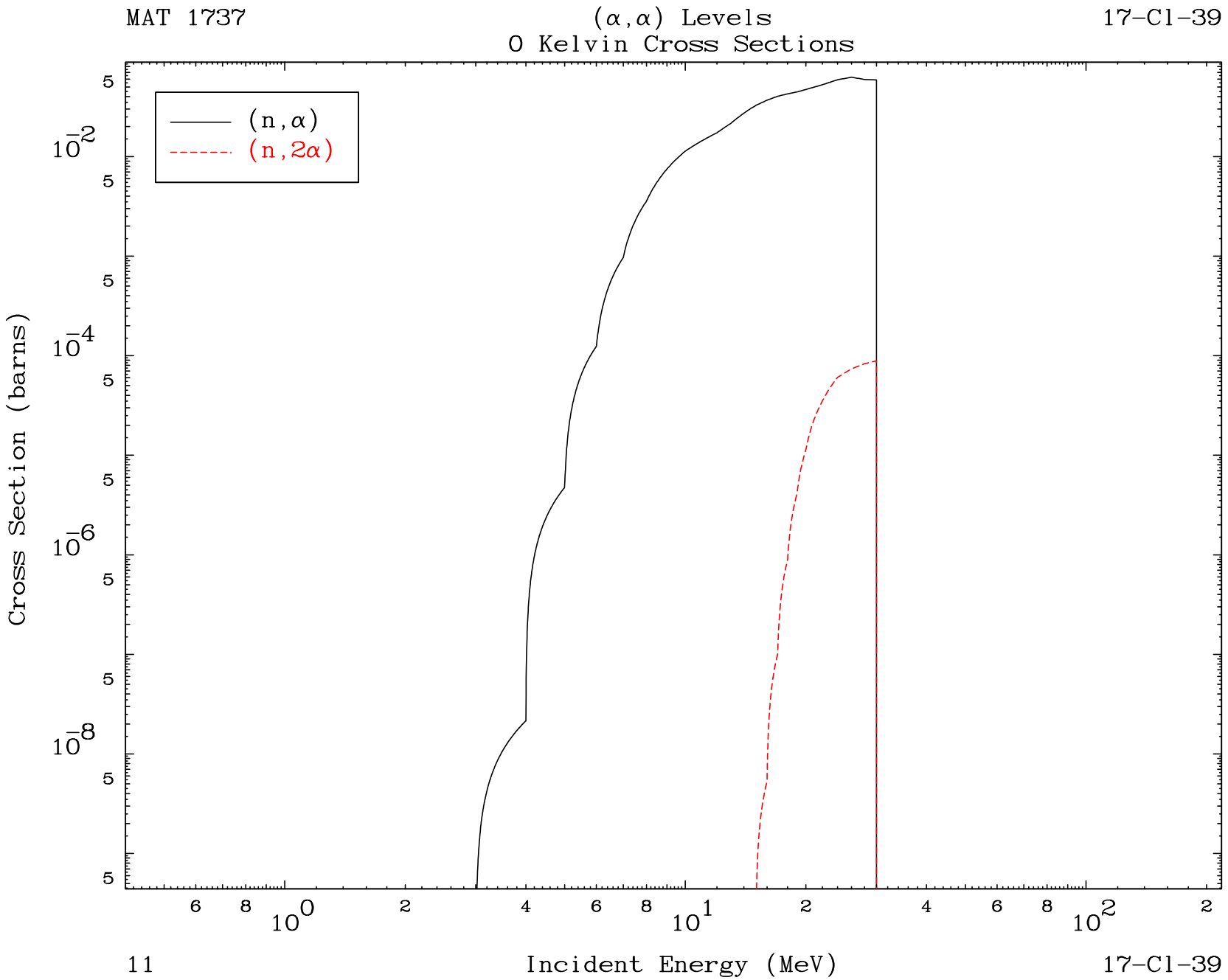

MAT 1737
α Charged Particle
0 Kelvin Cross Sections
17-Cl-39
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
17-Cl-39

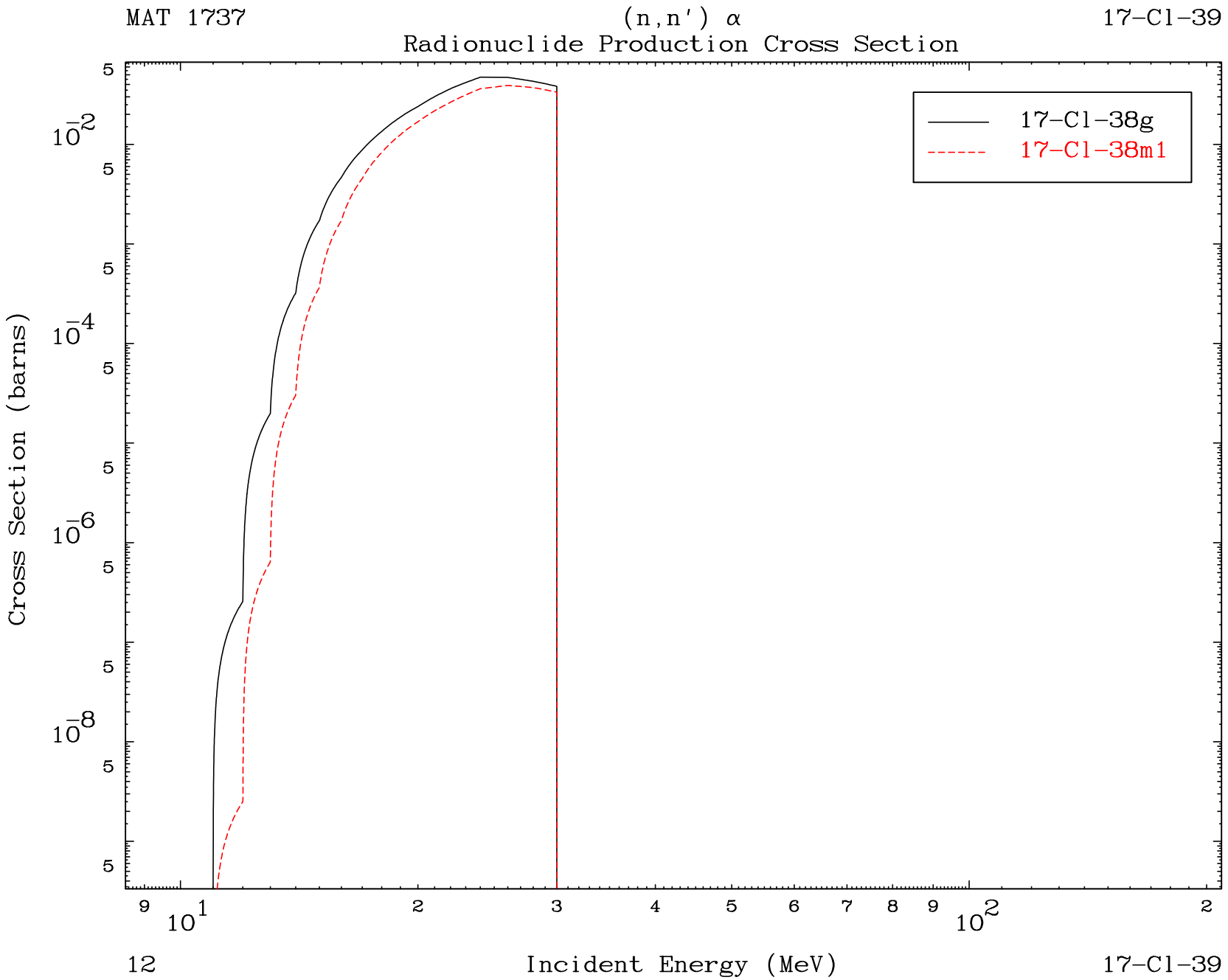

MAT 1737
(α,p) Levels
17-Cl-39
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
7
17-Cl-39


MAT 1737
(α,d) Levels
17-Cl-39
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
17-Cl-39
8


MAT 1737
(α,t) Levels
17-Cl-39
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
9
17-Cl-39


MAT 1737
(α,He3) Levels
17-Cl-39
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10
10^2
17-Cl-39


MAT 1737
(α,α) Levels
0 Kelvin Cross Sections
17-Cl-39
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
17-Cl-39


MAT 1737
(n,n') α
17-Cl-39
Radionuclide Production Cross Section
17-Cl-38g
17-Cl-38m1
Cross Section (barns)
Incident Energy (MeV)
12
17-Cl-39