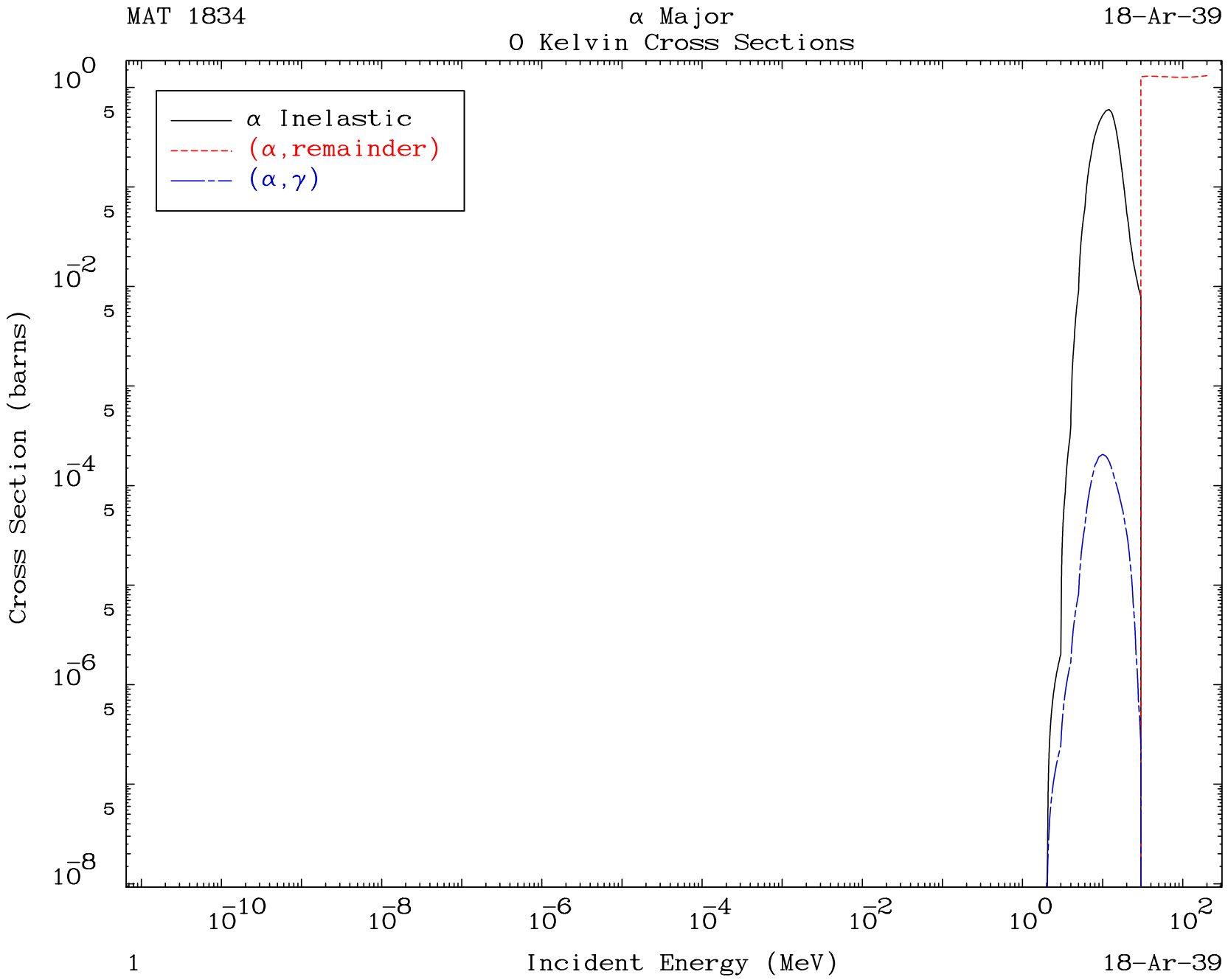
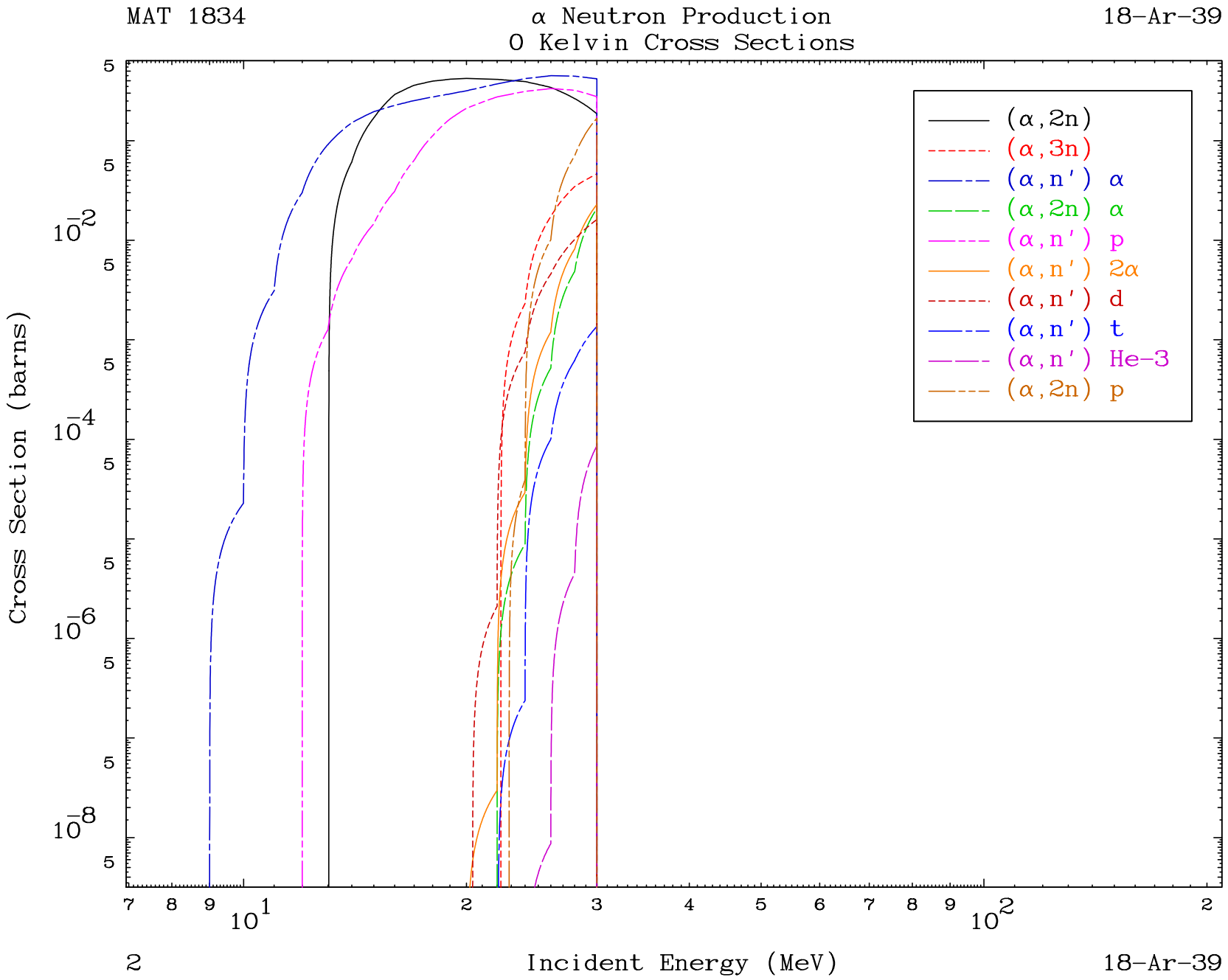
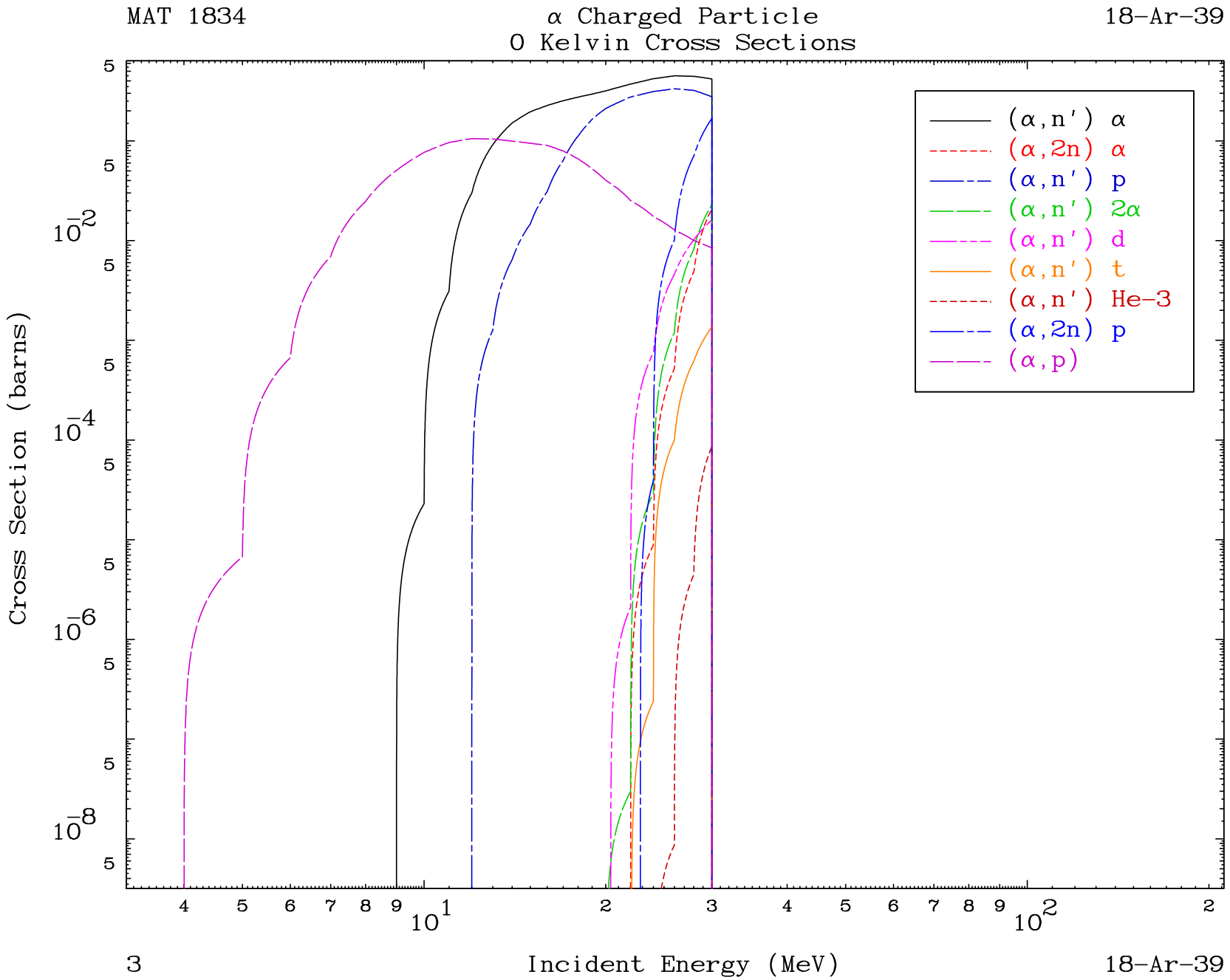
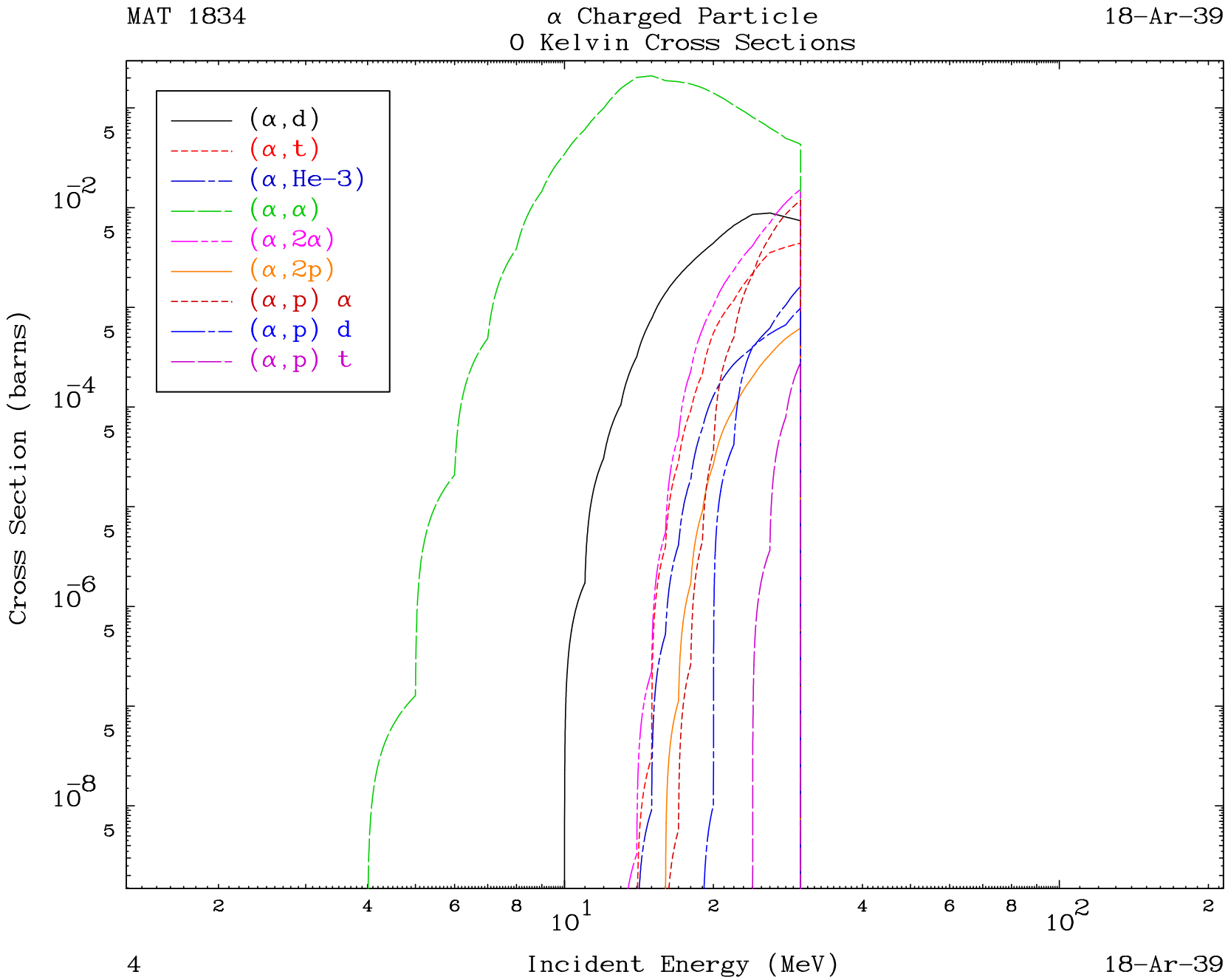
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

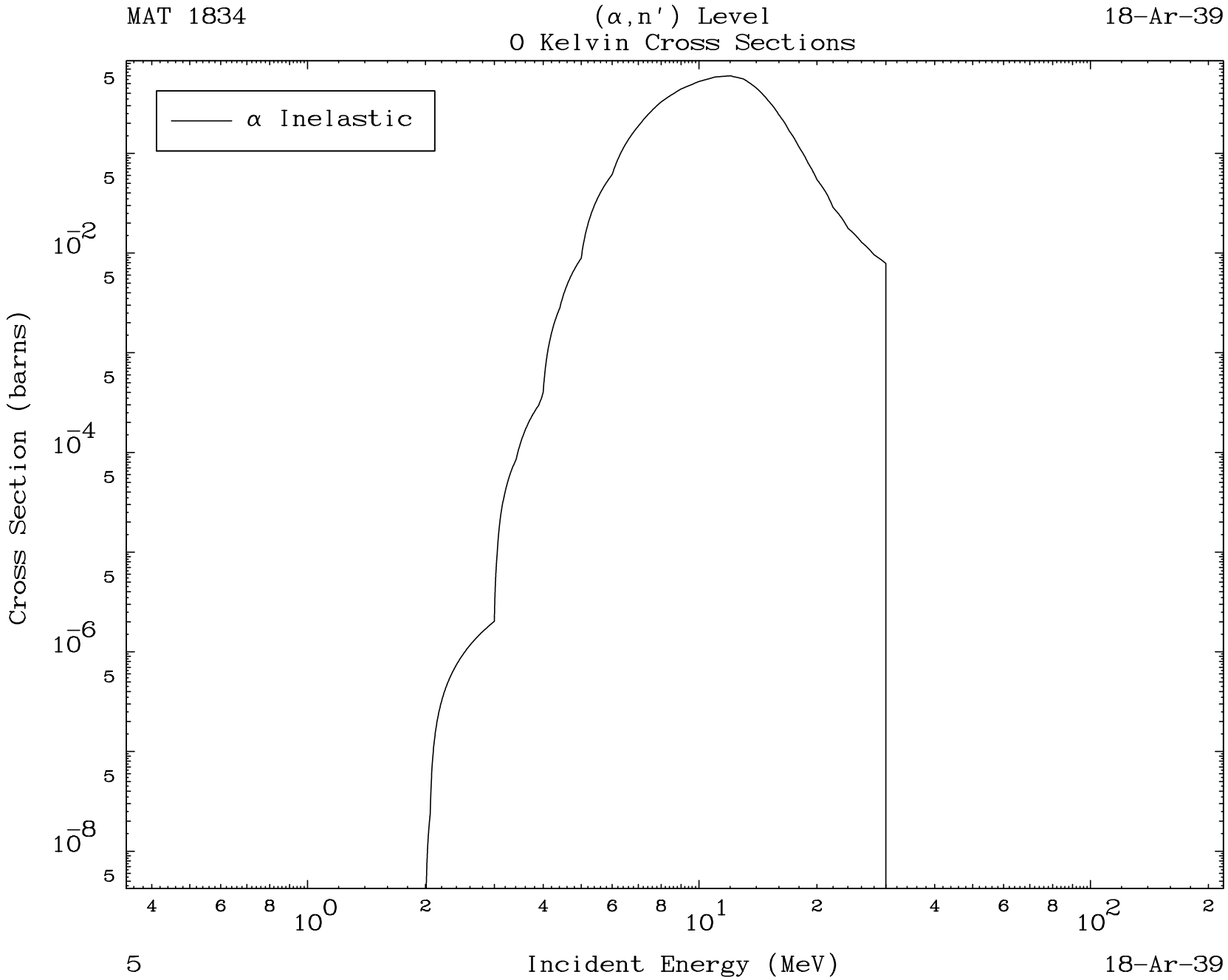
Press Mouse Button to Start

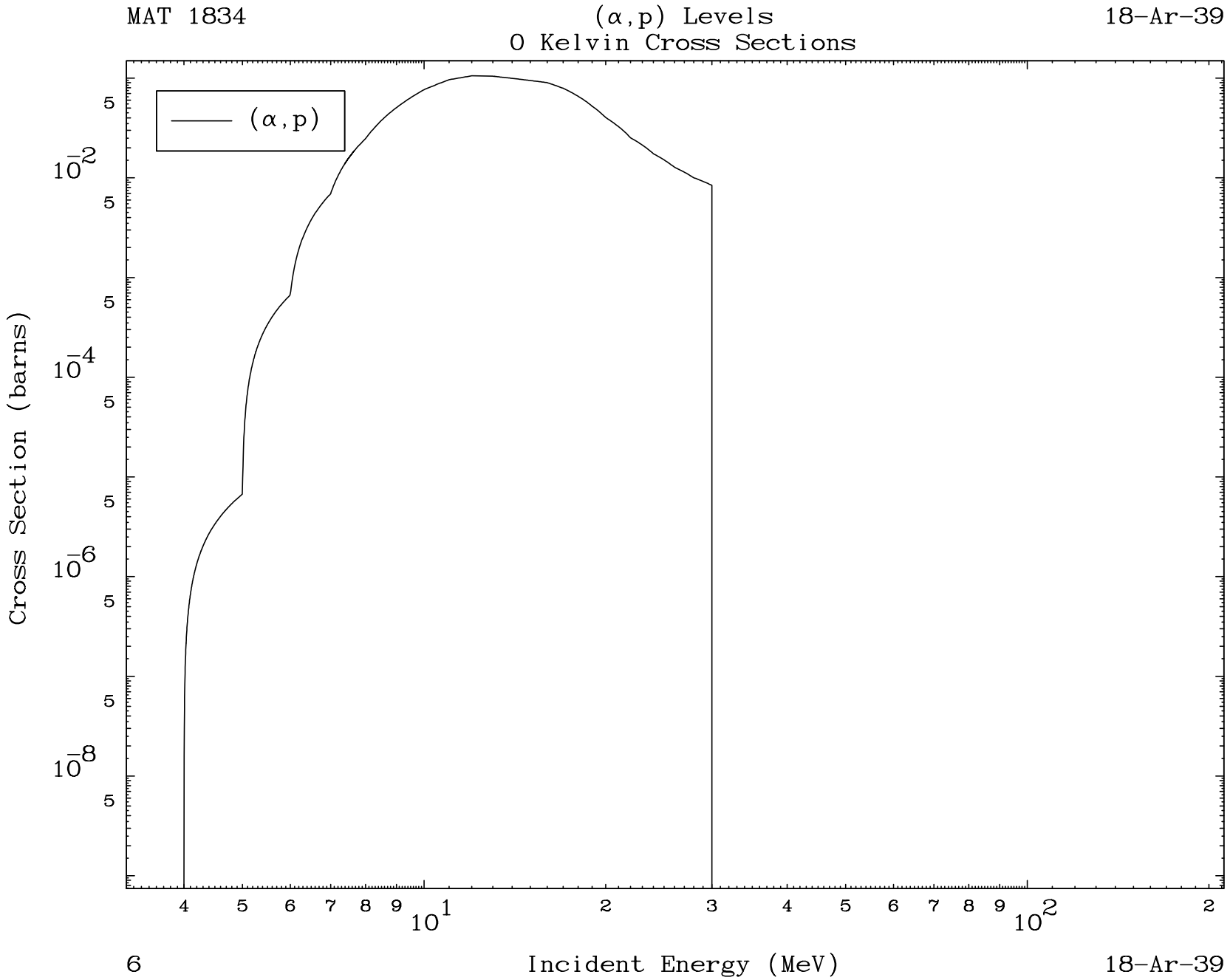

MAT 1834
α Major
18-Ar-39
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
18-Ar-39

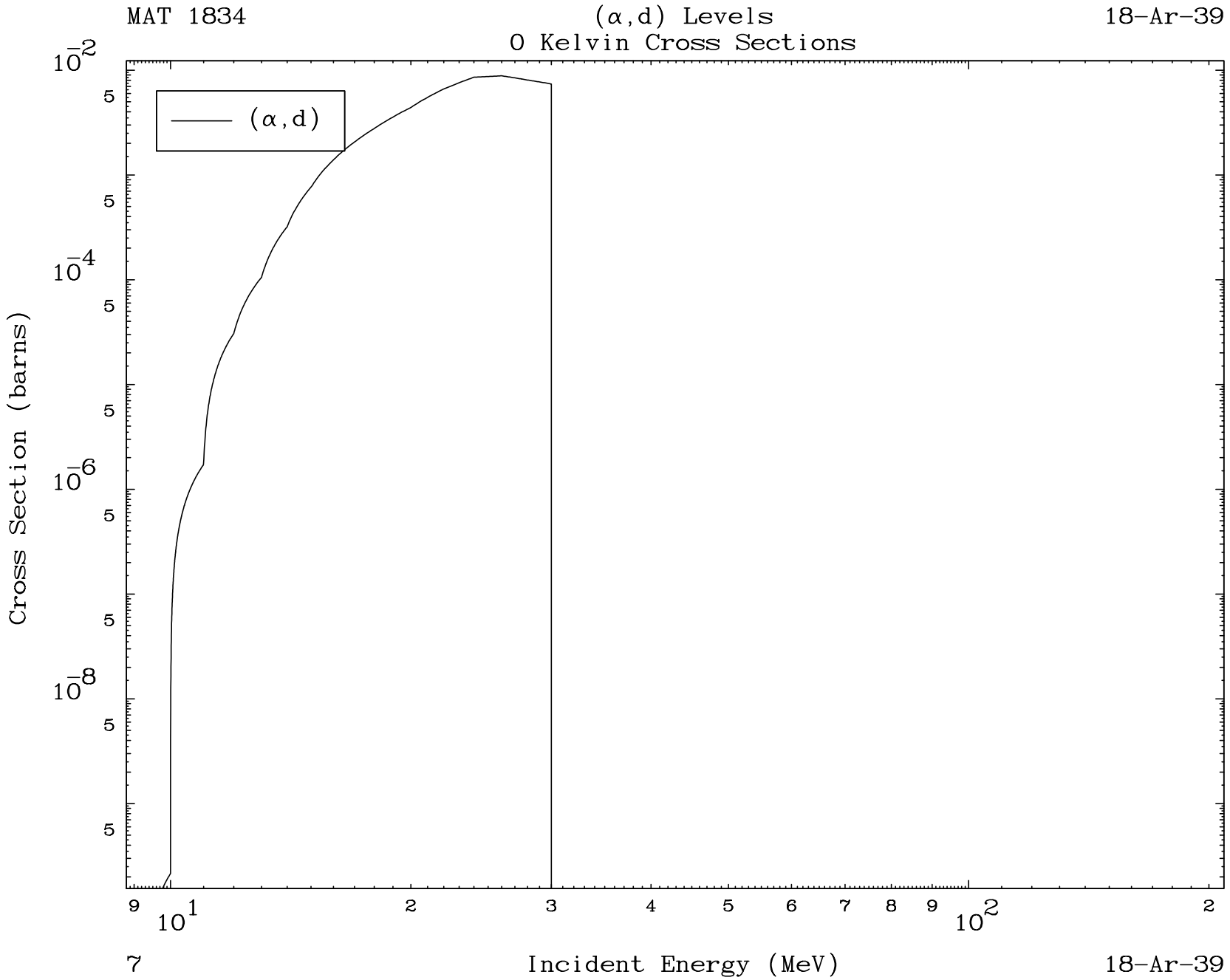

MAT 1834
α Neutron Production
0 Kelvin Cross Sections
18-Ar-39
Cross Section (barns)
Incident Energy (MeV)
18-Ar-39
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p

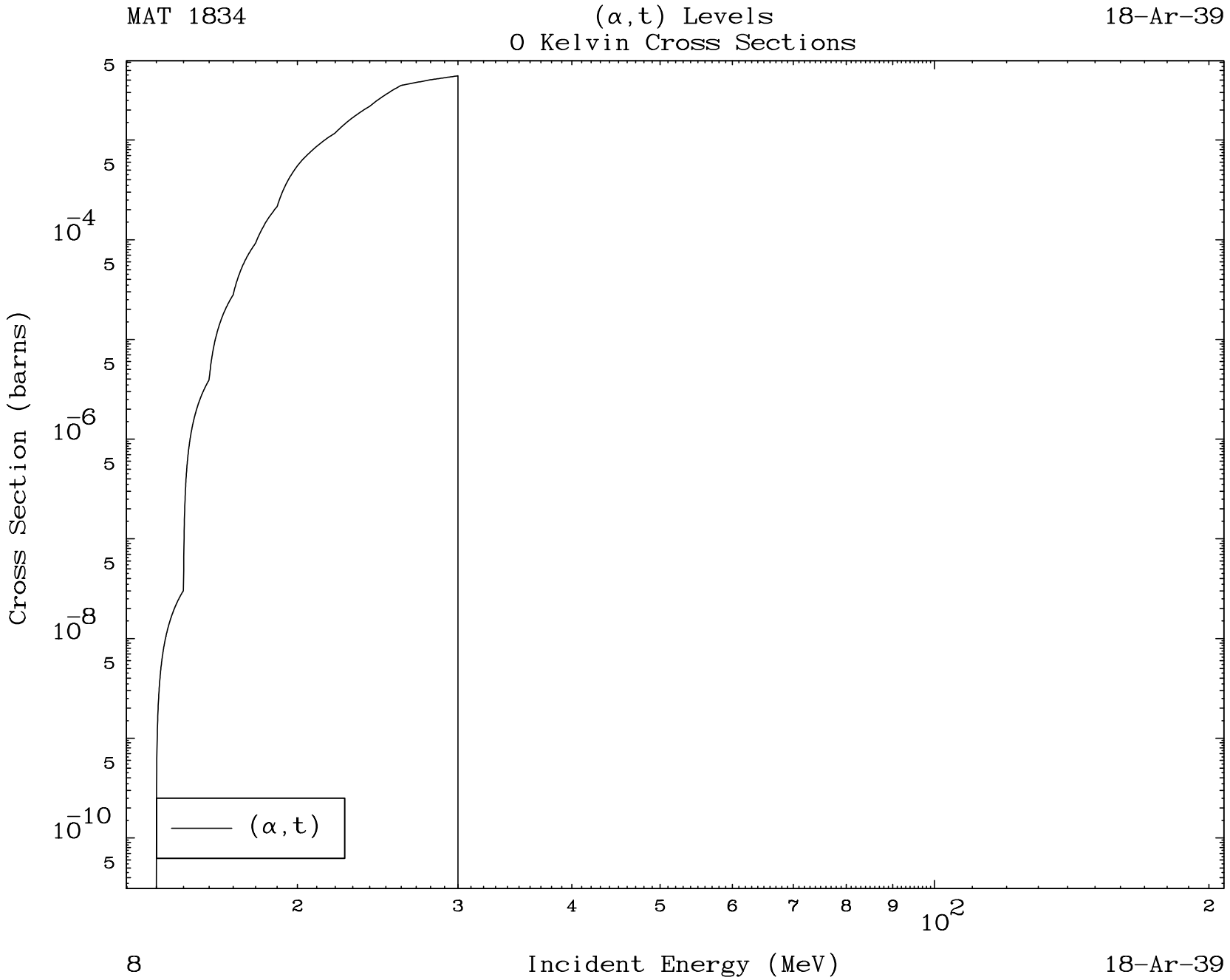

MAT 1834
α Charged Particle
0 Kelvin Cross Sections
18-Ar-39
Cross Section (barns)
Incident Energy (MeV)
3
18-Ar-39
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p
(α,p)

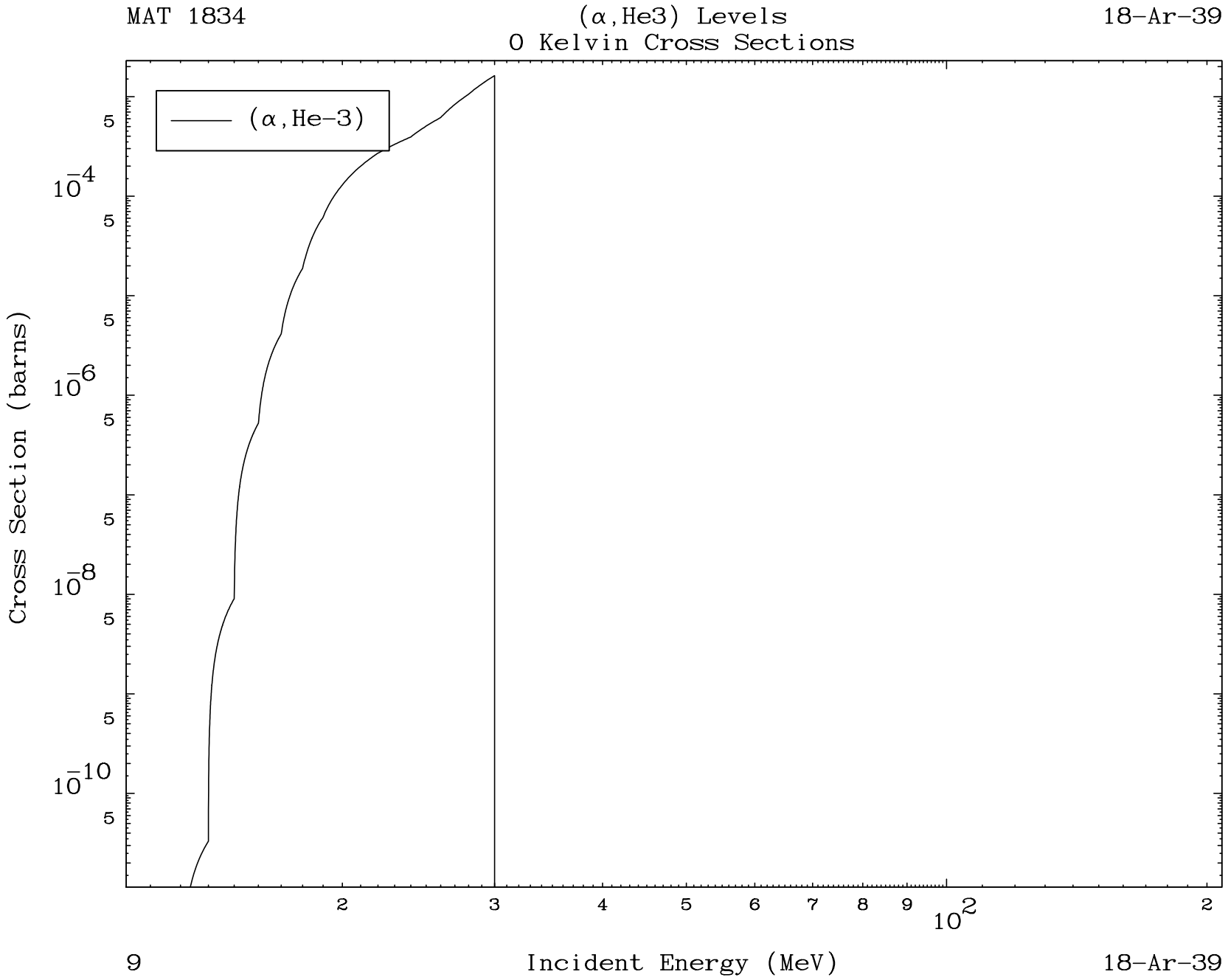

MAT 1834
α Charged Particle
0 Kelvin Cross Sections
18-Ar-39
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
(α,p) t
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
101
102
Incident Energy (MeV)
4
18-Ar-39

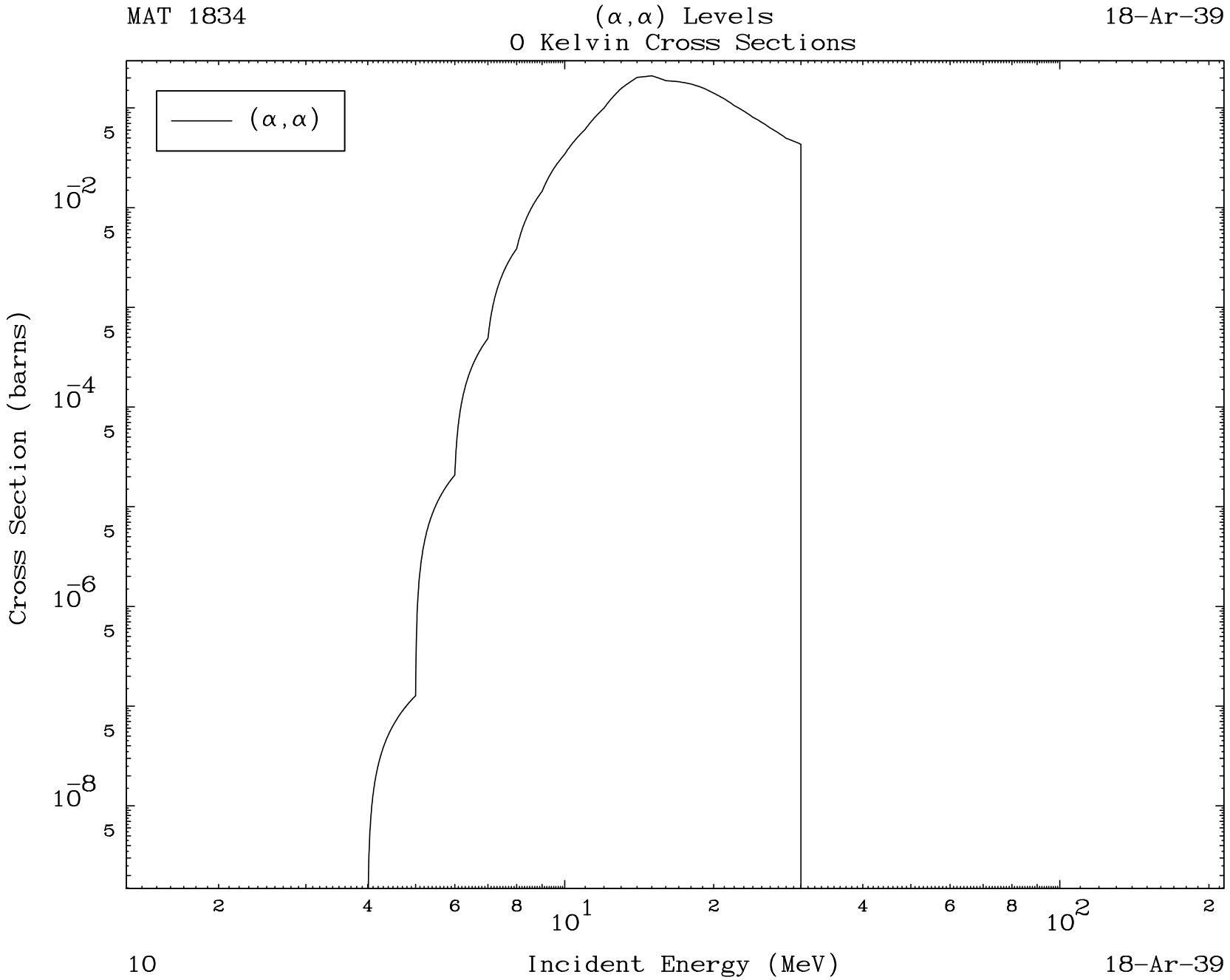

MAT 1834
(α,n') Level
18-Ar-39
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
Incident Energy (MeV)
5
18-Ar-39

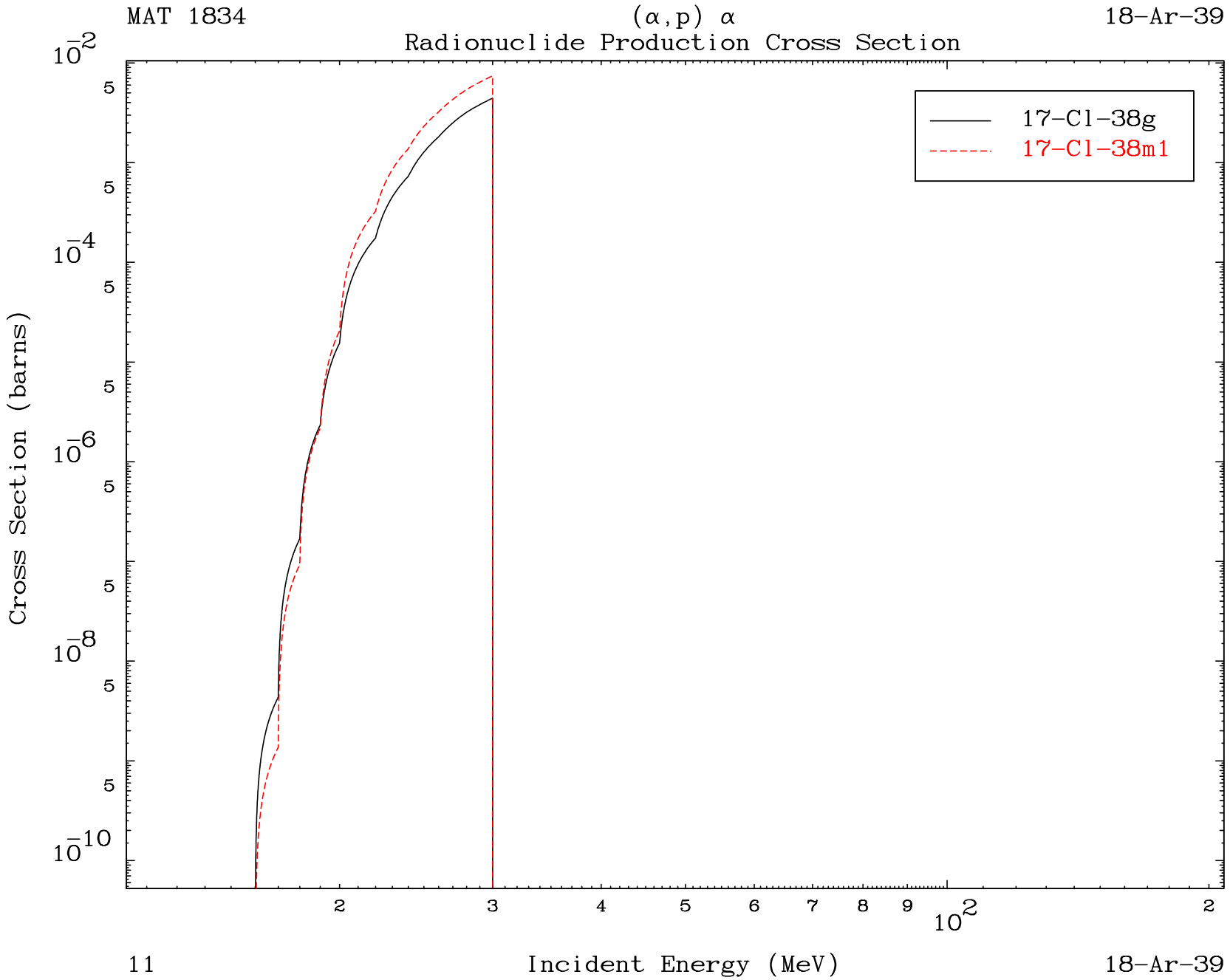

MAT 1834
(α,p) Levels
18-Ar-39
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
10^1
10^2
6
18-Ar-39


MAT 1834
(α,d) Levels
18-Ar-39
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
Incident Energy (MeV)
18-Ar-39
7


MAT 1834
(α,t) Levels
18-Ar-39
0 Kelvin Cross Sections
Cross Section (barns)
10-4
10-6
10-8
10-10
(α,t)
2
3
4
5
6
7
8
9
10^2
2
8
Incident Energy (MeV)
18-Ar-39


MAT 1834
(α,He3) Levels
18-Ar-39
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
18-Ar-39


MAT 1834
(α,α) Levels
18-Ar-39
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
2
4
6
8
10^1
10^2
10
Incident Energy (MeV)
18-Ar-39


MAT 1834
(α,p) α
18-Ar-39
Radionuclide Production Cross Section
17-Cl-38g
17-Cl-38m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
18-Ar-39