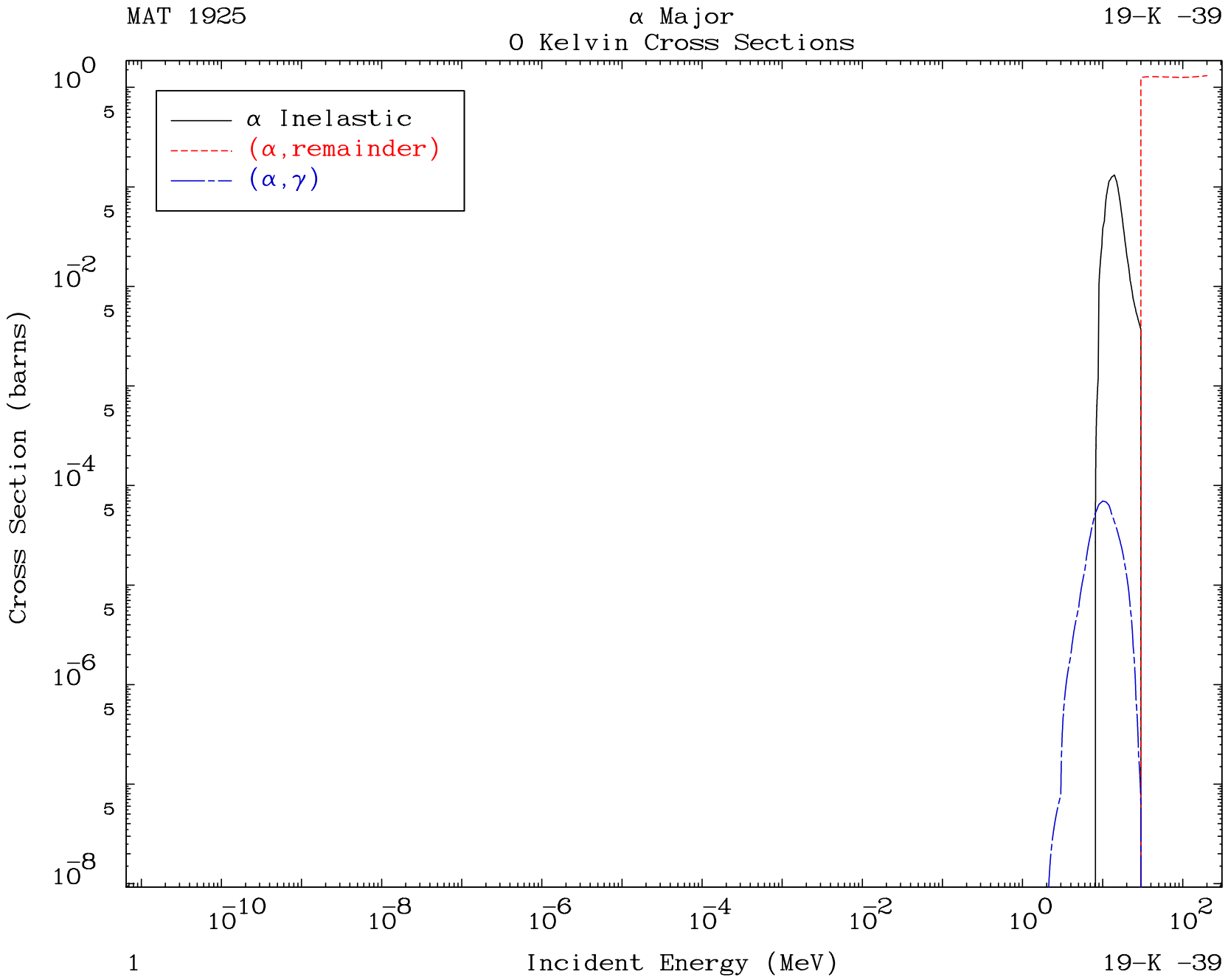
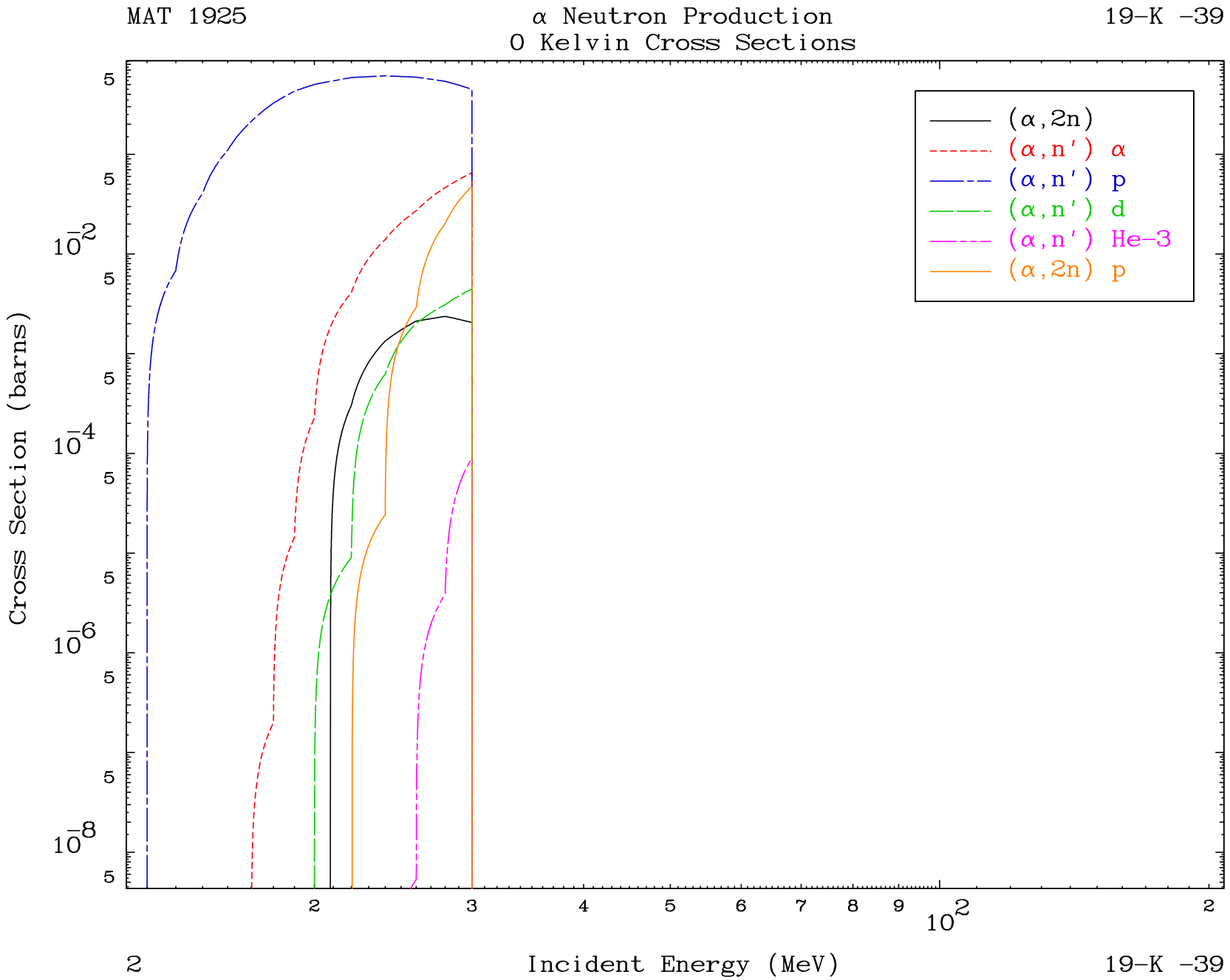
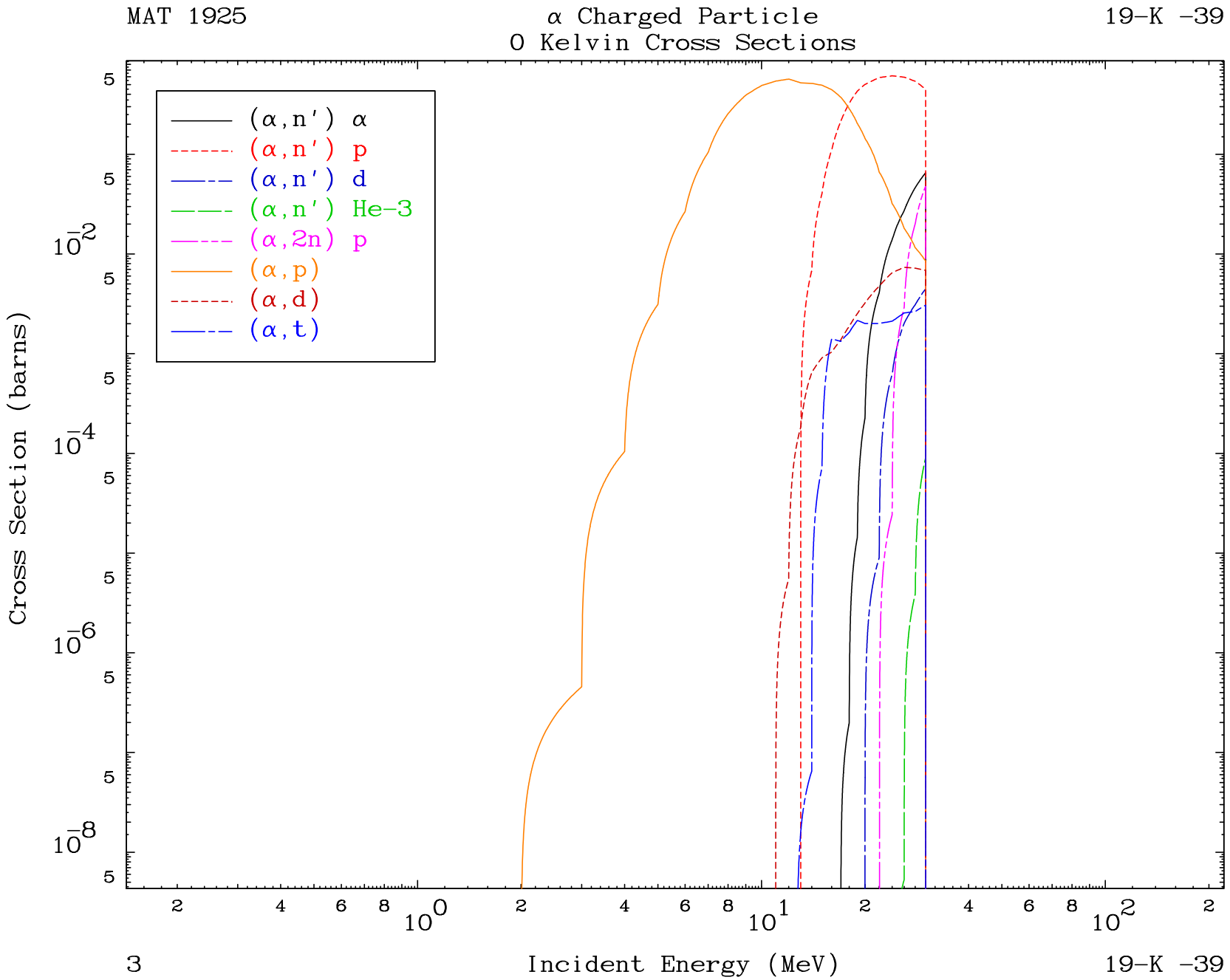
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

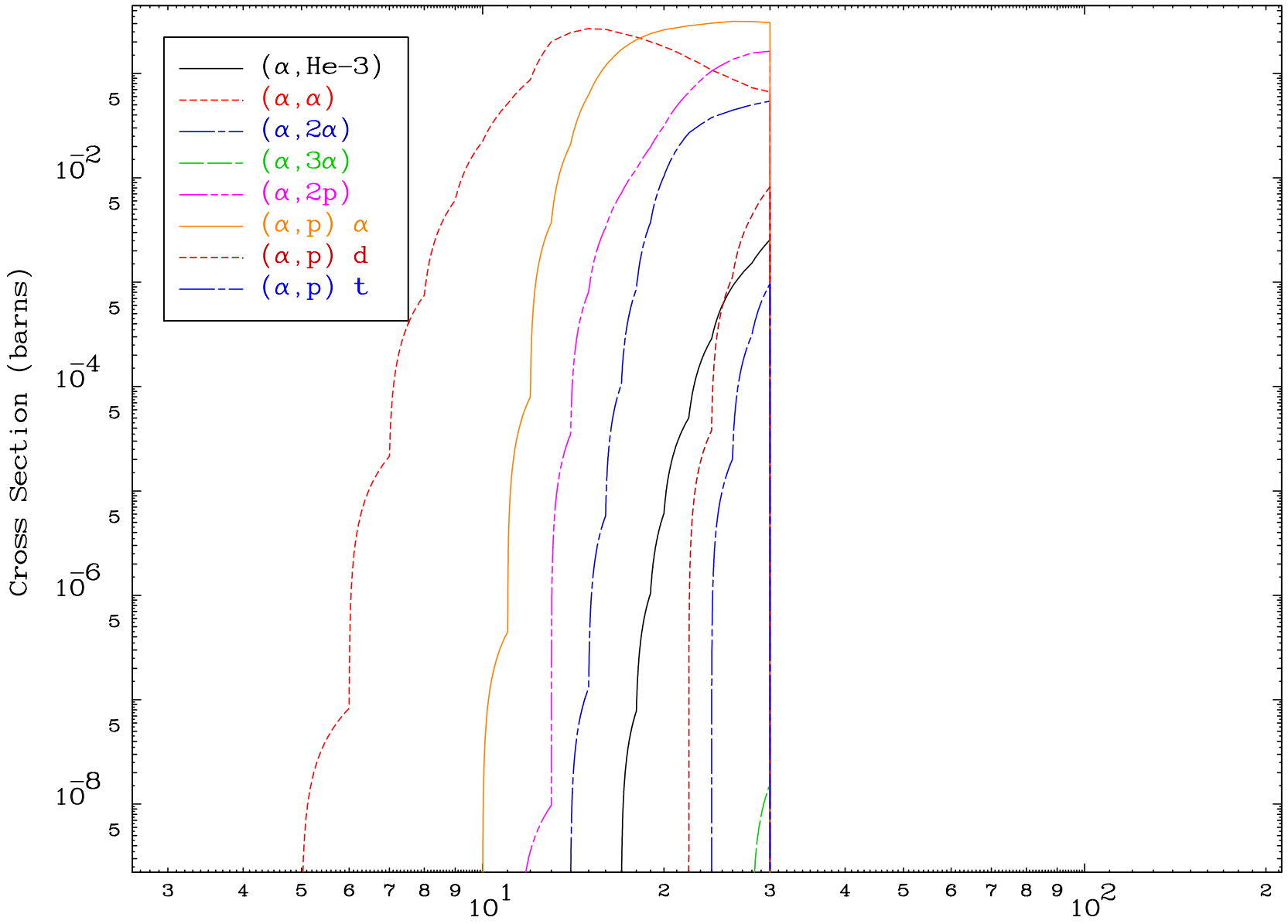
Press Mouse Button to Start


MAT 1925
α Major
19-K -39
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
19-K -39

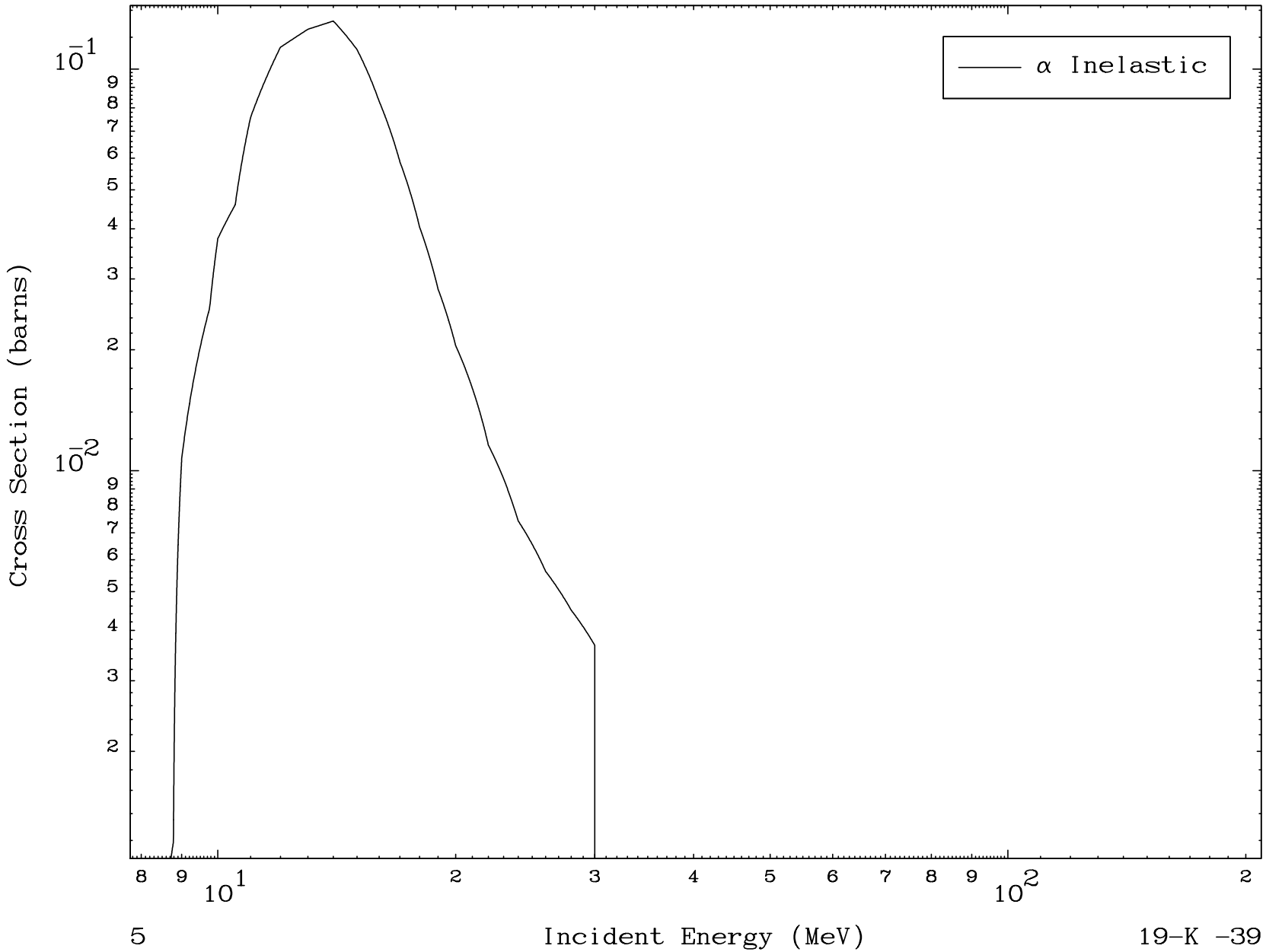

MAT 1925
α Neutron Production
0 Kelvin Cross Sections
19-K -39
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
(α,2n)
(α,n') α
(α,n') p
(α,n') d
(α,n') He-3
(α,2n) p
2
Incident Energy (MeV)
19-K -39


MAT 1925
α Charged Particle
0 Kelvin Cross Sections
19-K -39
(α,n') α
(α,n') p
(α,n') d
(α,n') He-3
(α,2n) p
(α,p)
(α,d)
(α,t)
Cross Section (barns)
Incident Energy (MeV)
3
19-K -39

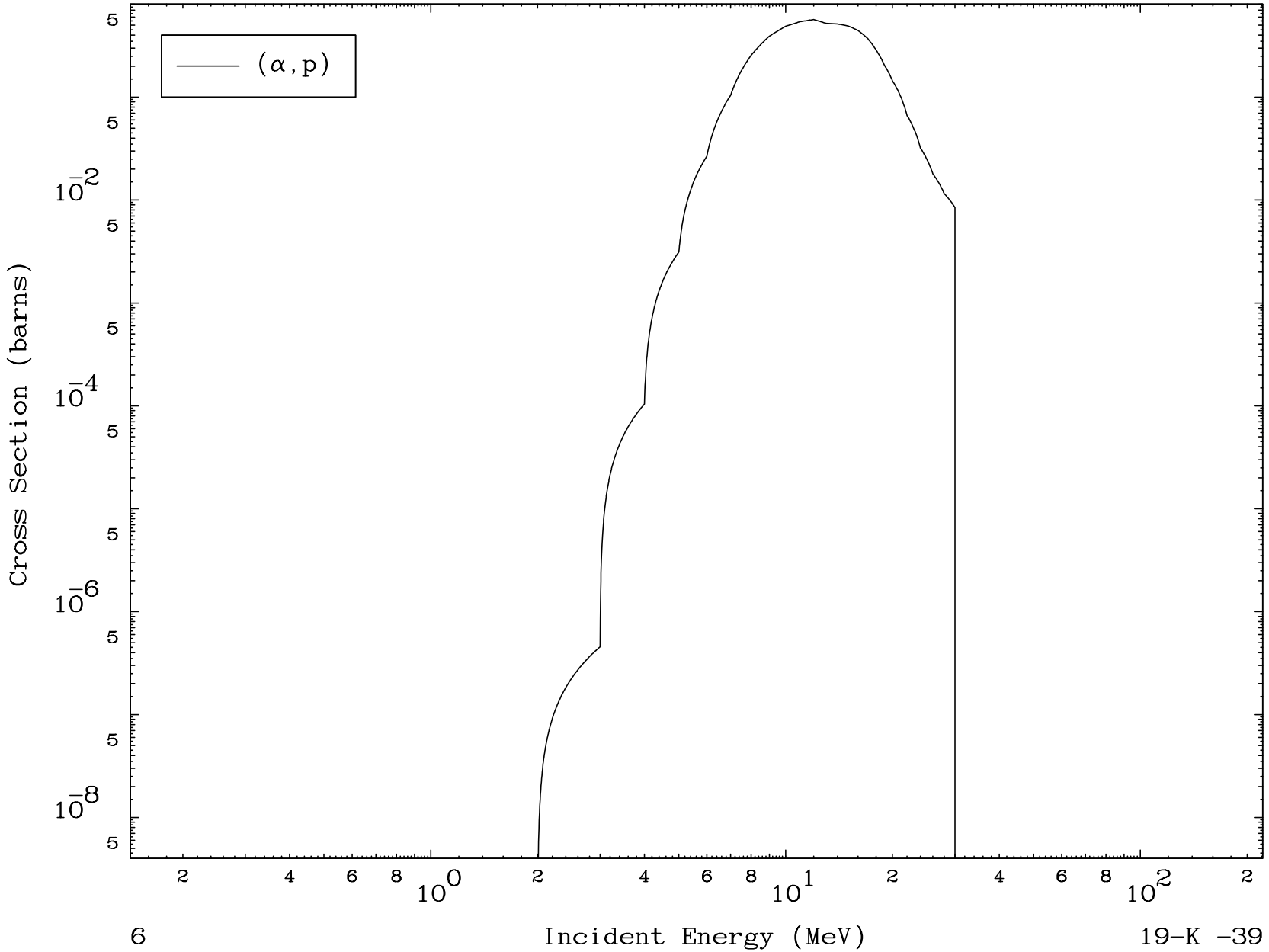
α Charged Particle
0 Kelvin Cross Sections

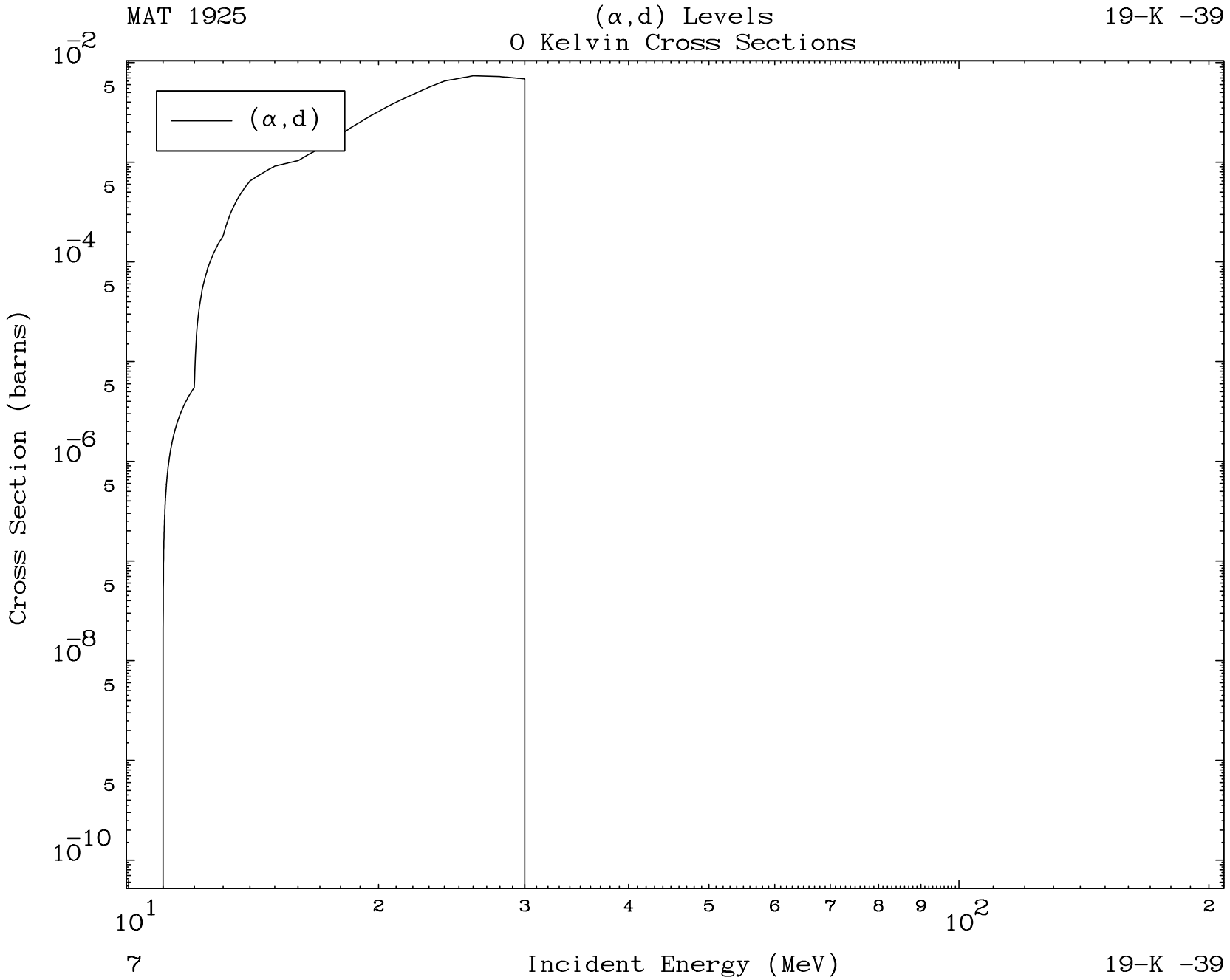


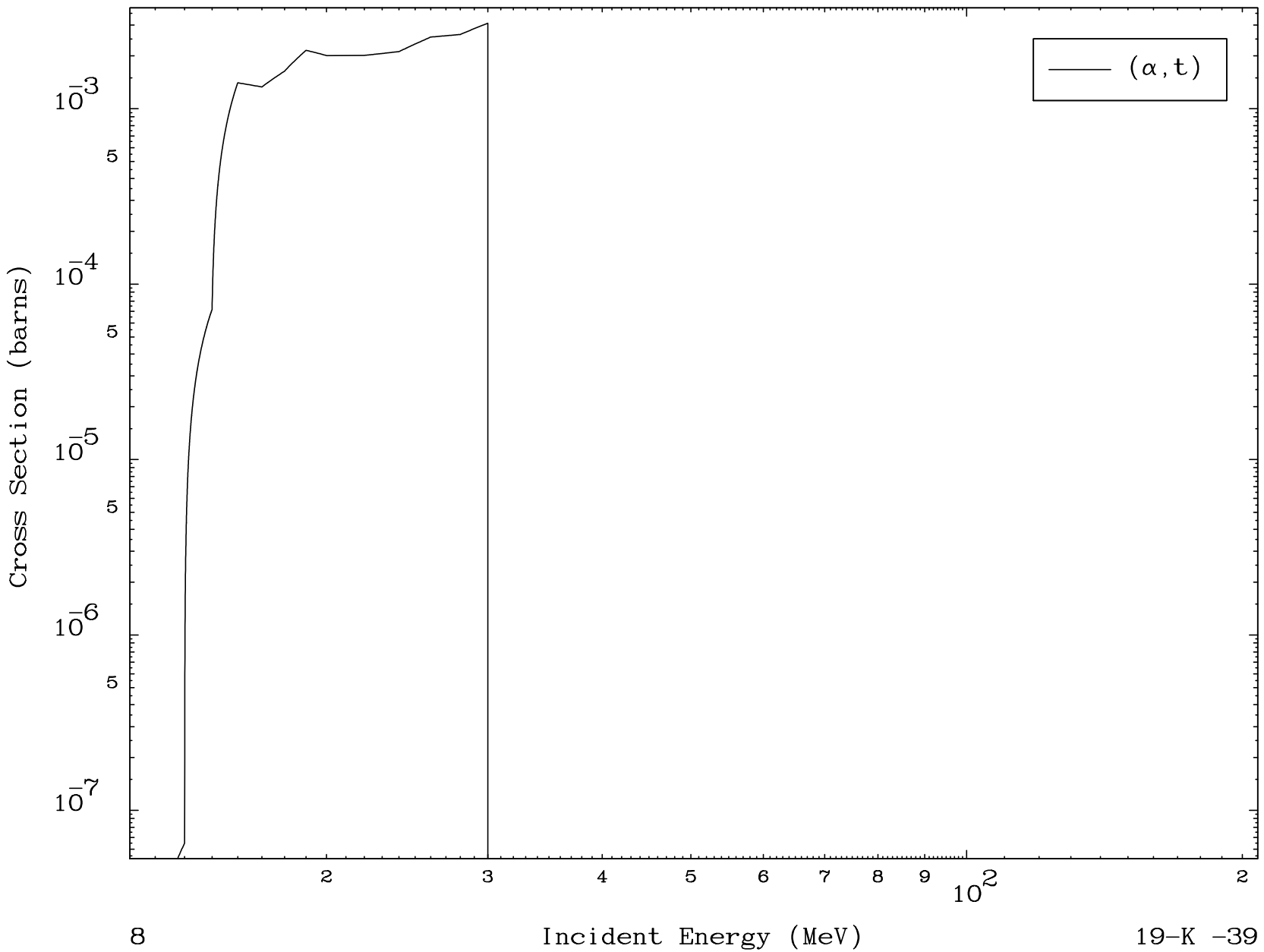
0 Kelvin Cross Sections

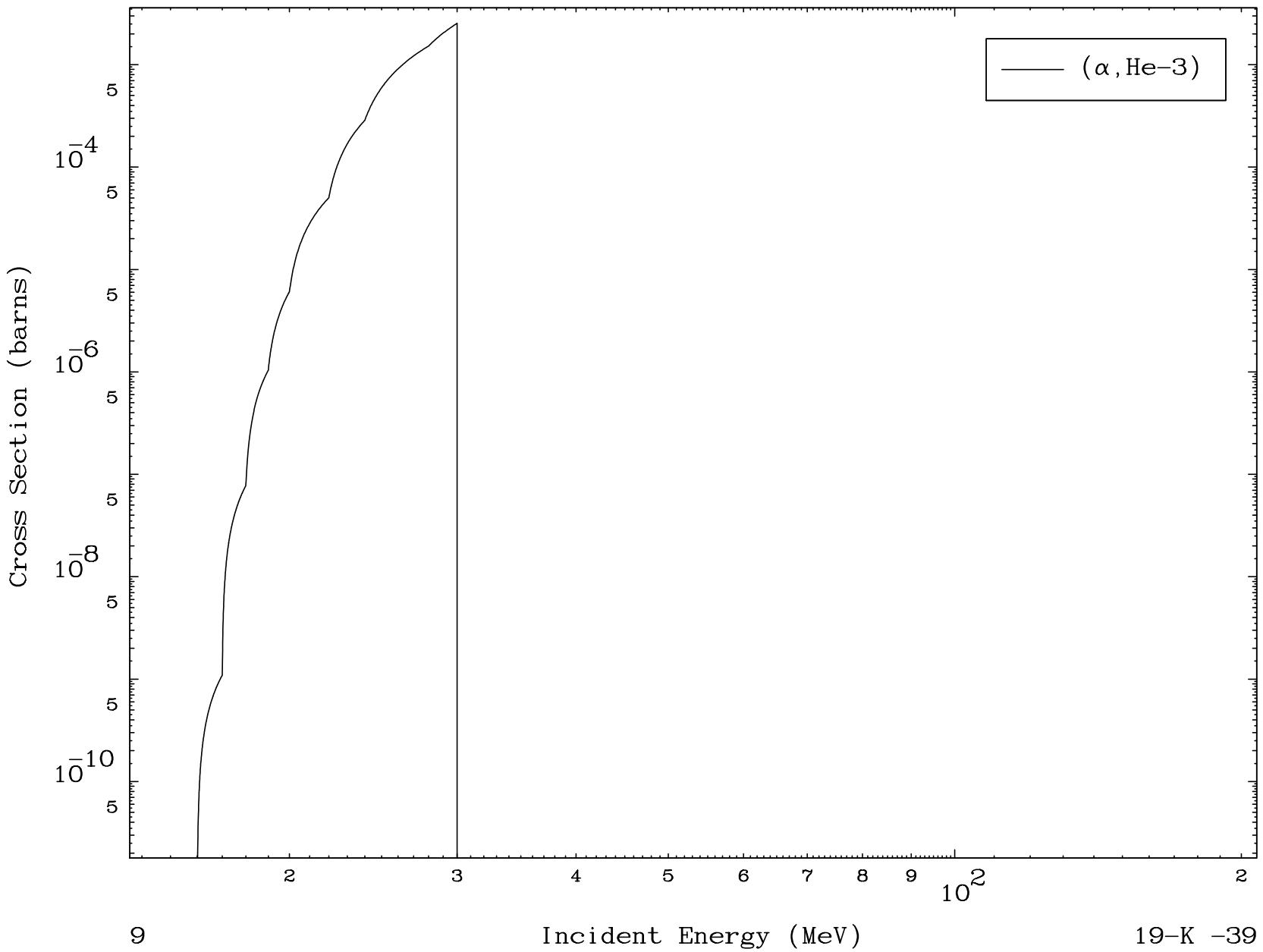


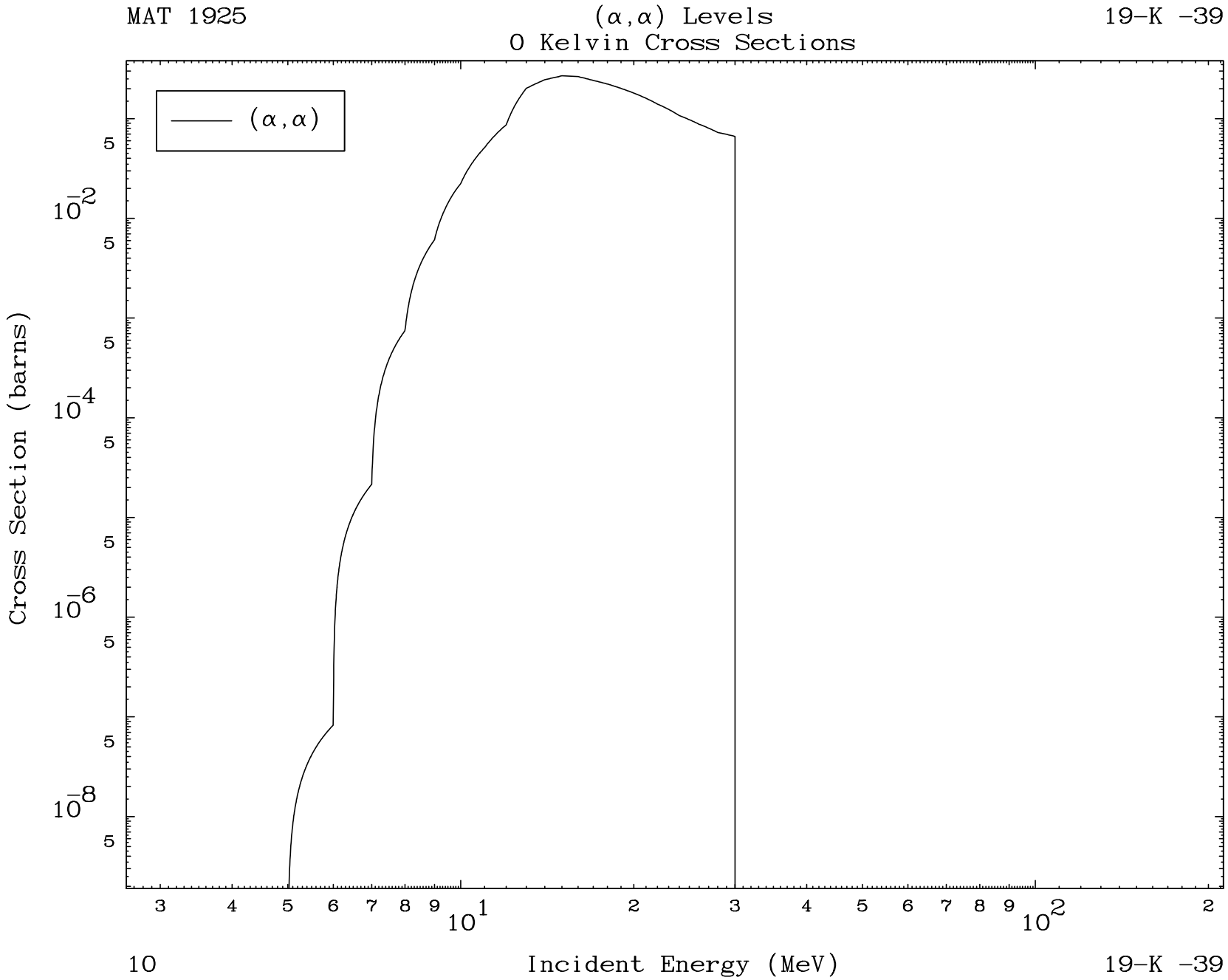
0 Kelvin Cross Sections

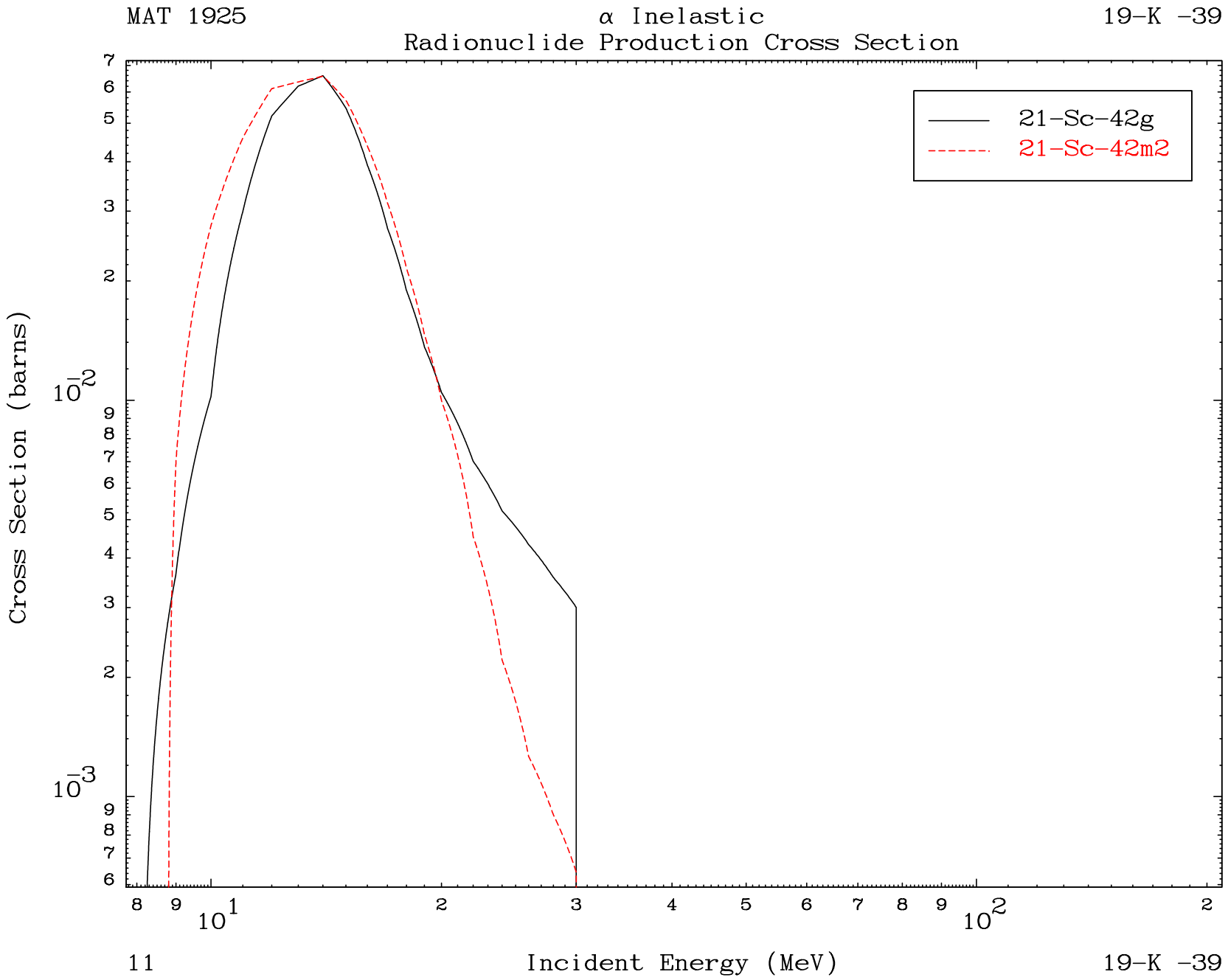


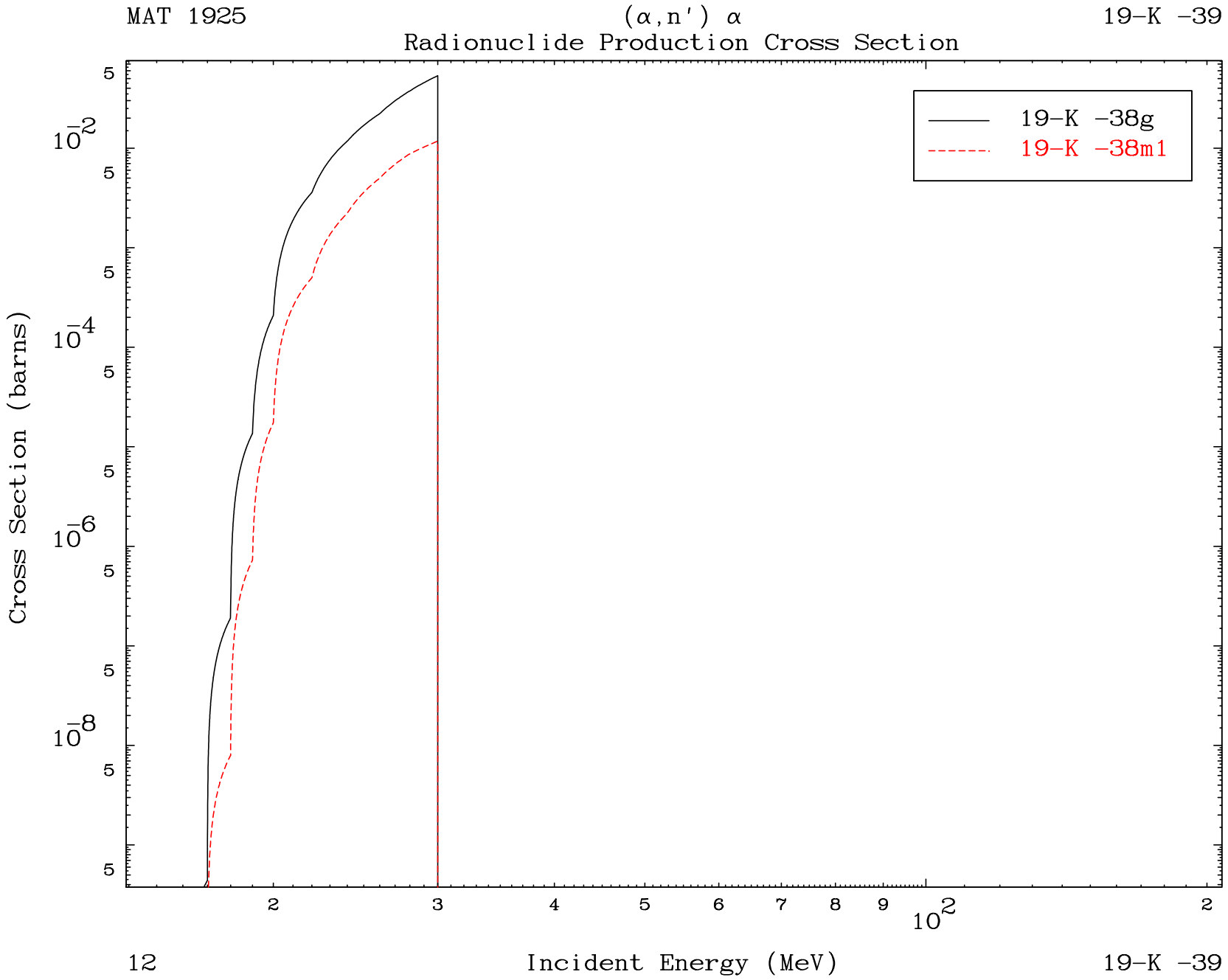

MAT 1925
(α,d) Levels
19-K -39
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
Incident Energy (MeV)
19-K -39
7


0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-3
5
10-4
5
10-5
5
10-6
5
10-7
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)


0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)


MAT 1925
(α,α) Levels
19-K -39
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
3 4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
10
Incident Energy (MeV)
19-K -39


MAT 1925
α Inelastic
19-K -39
Radionuclide Production Cross Section
21-Sc-42g
21-Sc-42m2
Cross Section (barns)
Incident Energy (MeV)
11
19-K -39


MAT 1925
(α,n') α
19-K -39
Radionuclide Production Cross Section
19-K -38g
19-K -38m1
Cross Section (barns)
Incident Energy (MeV)
12
19-K -39