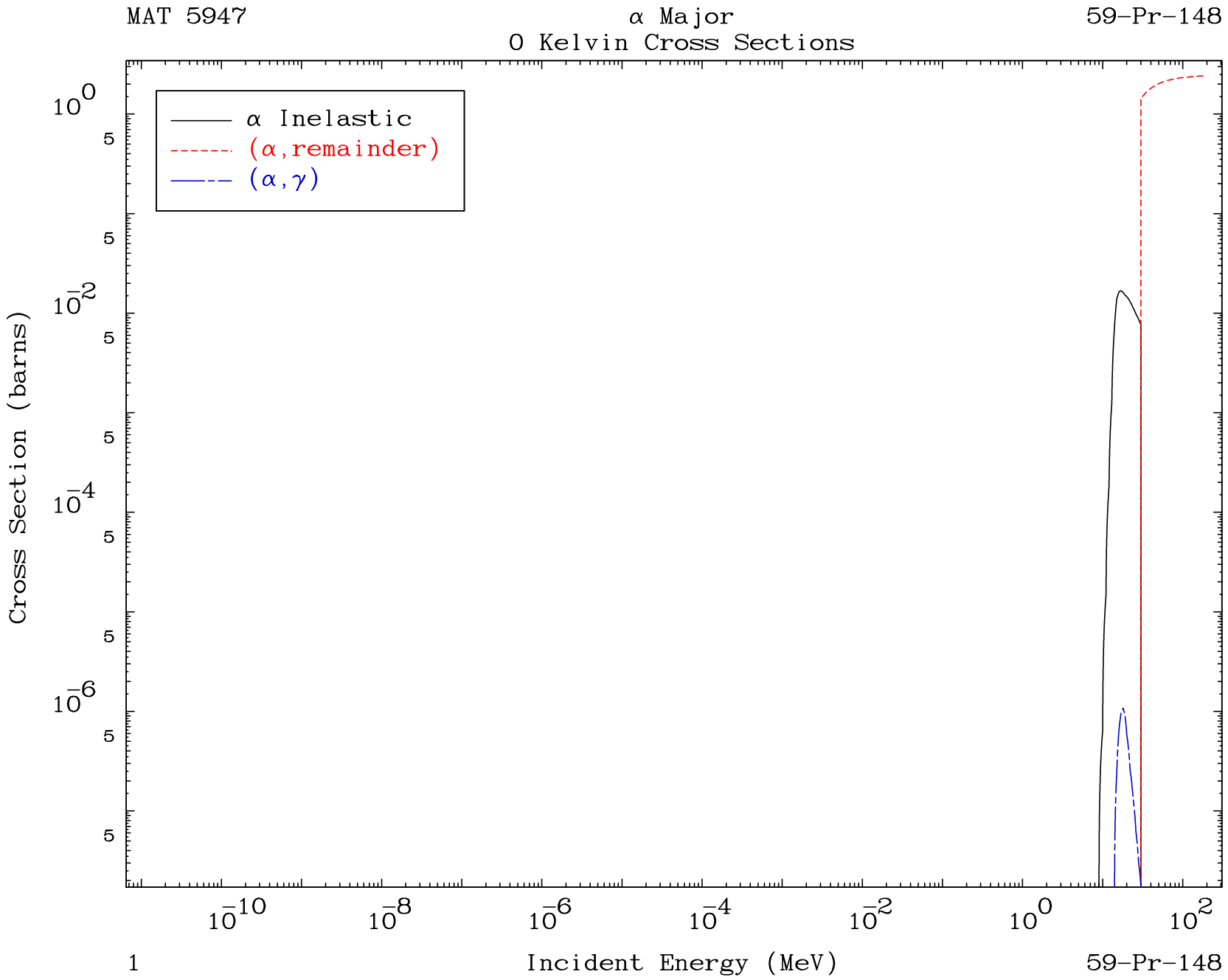
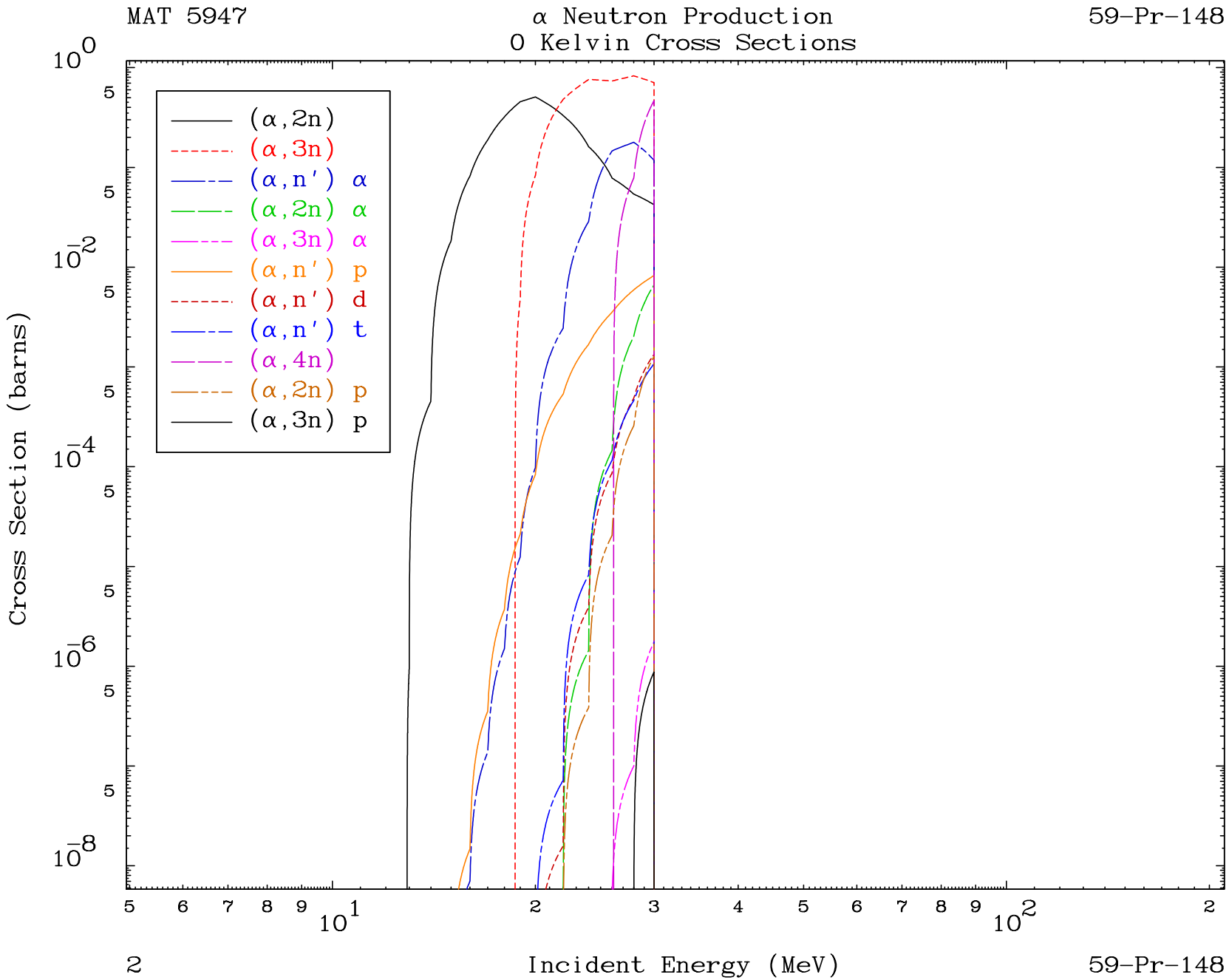
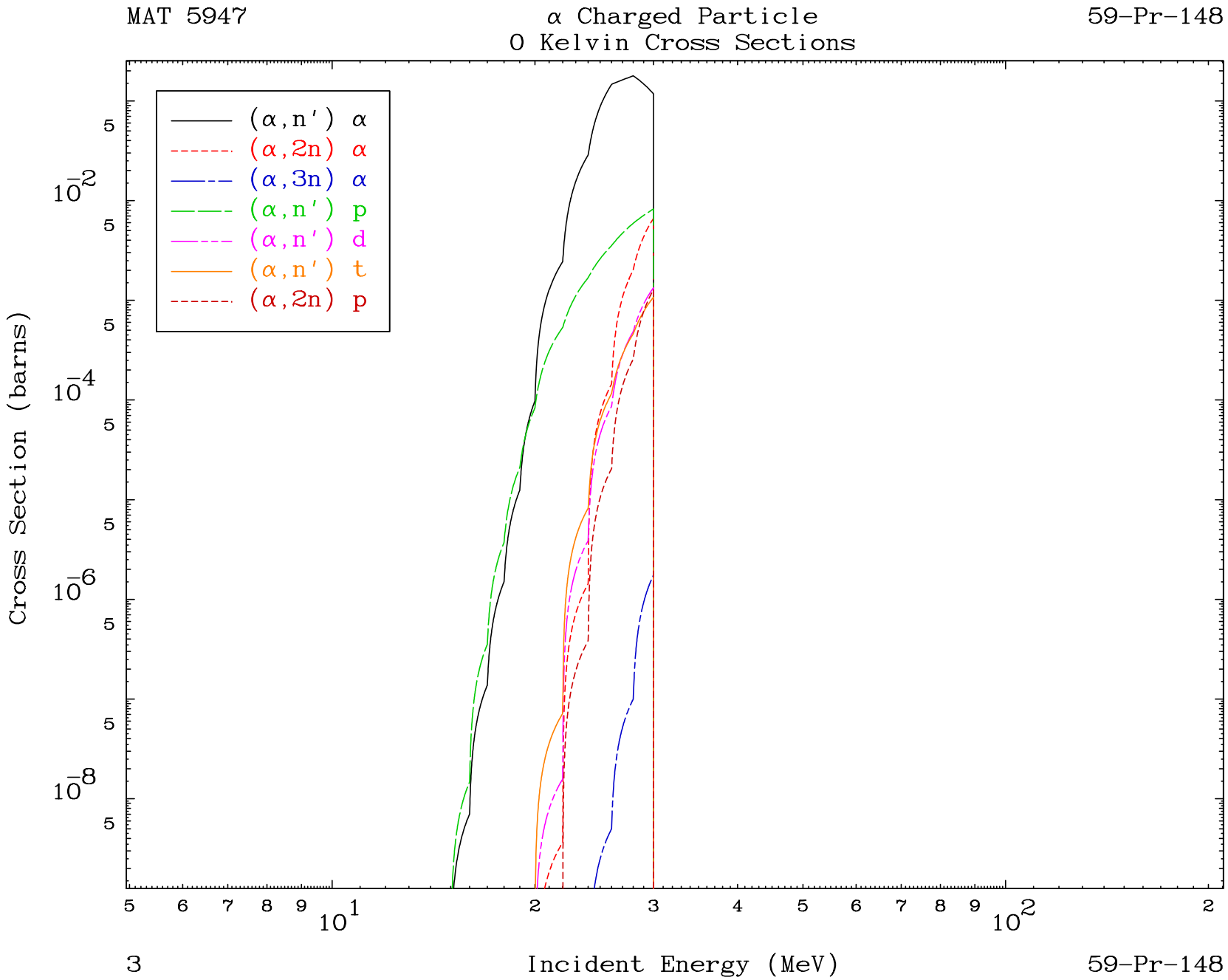
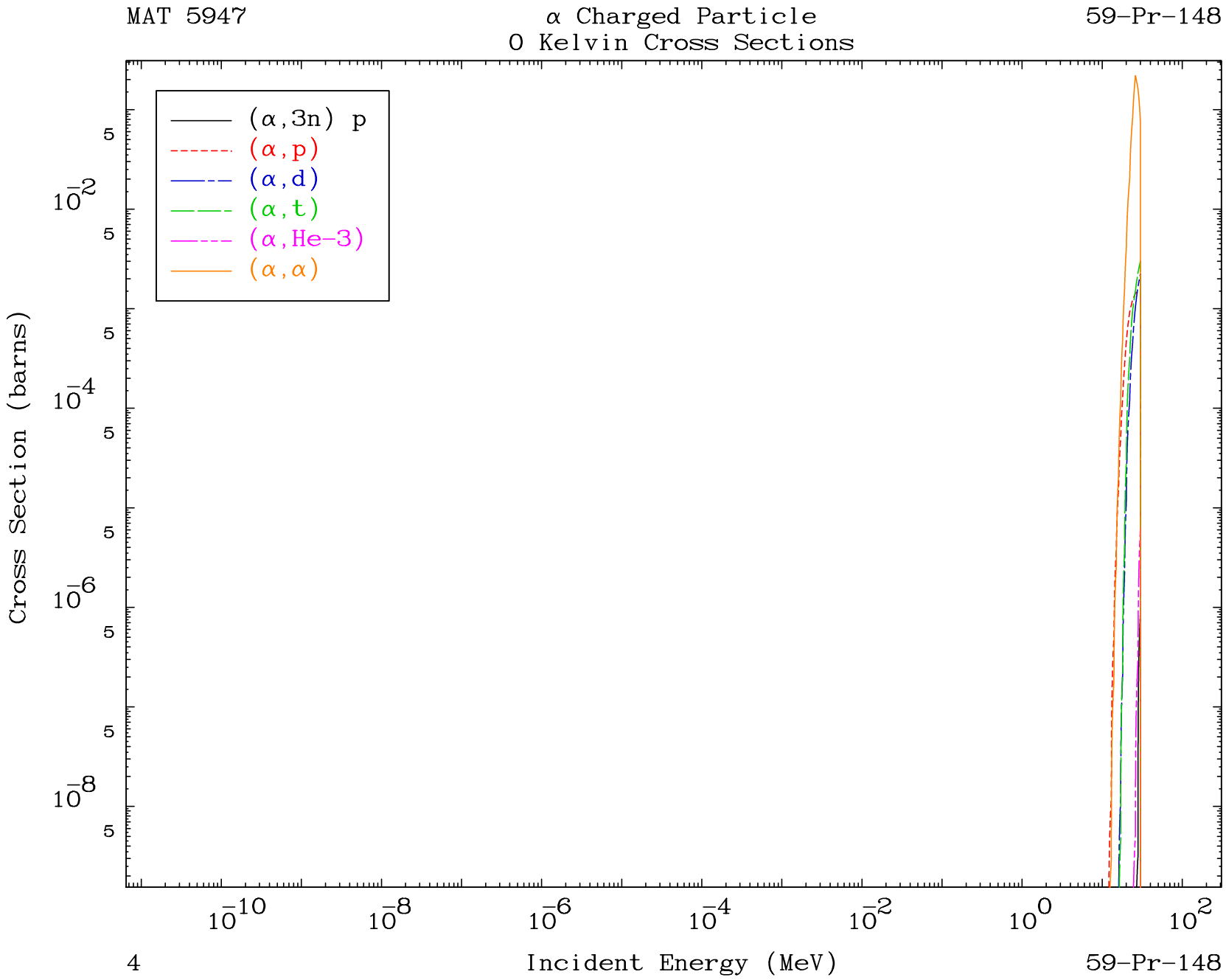
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

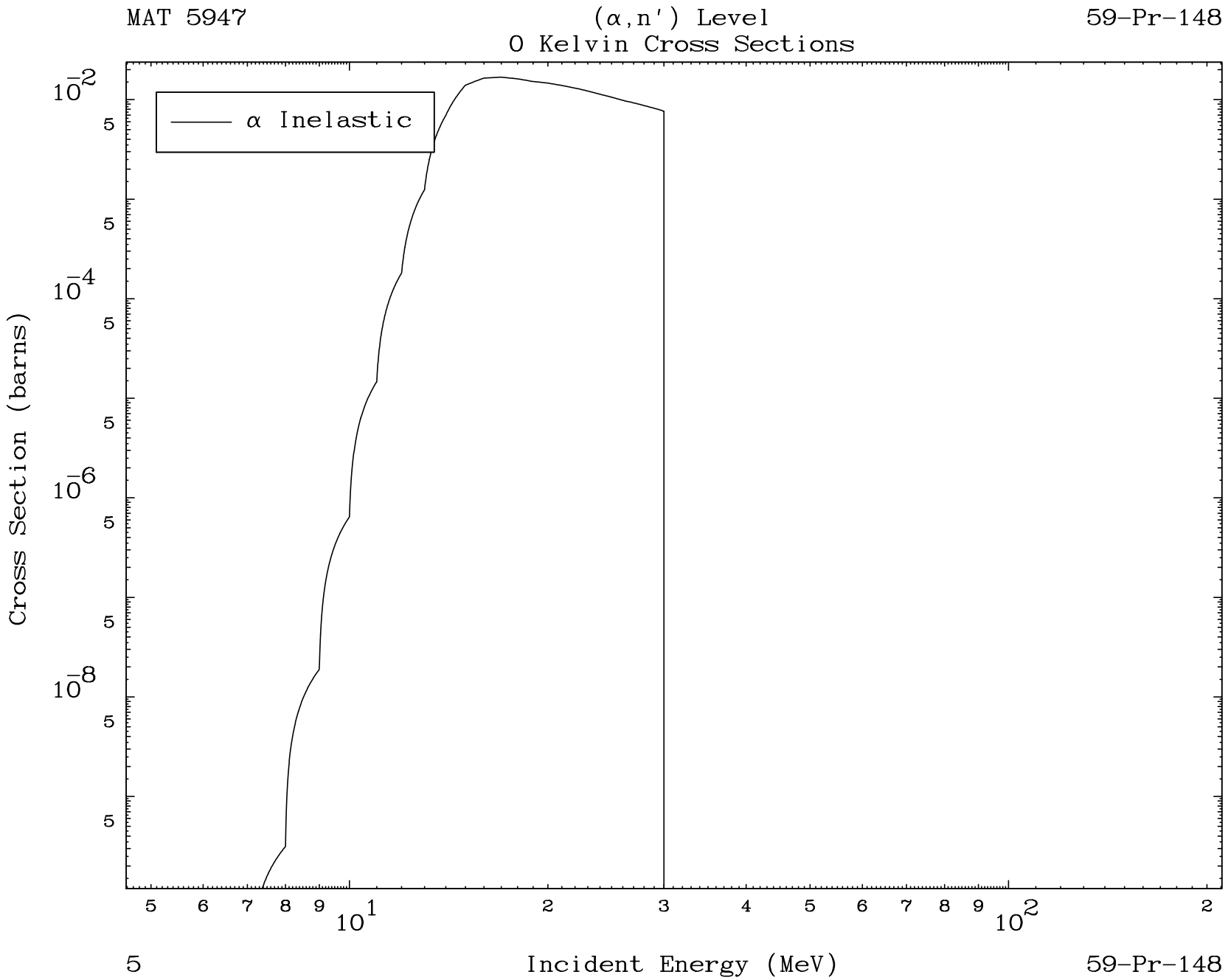
Press Mouse Button to Start

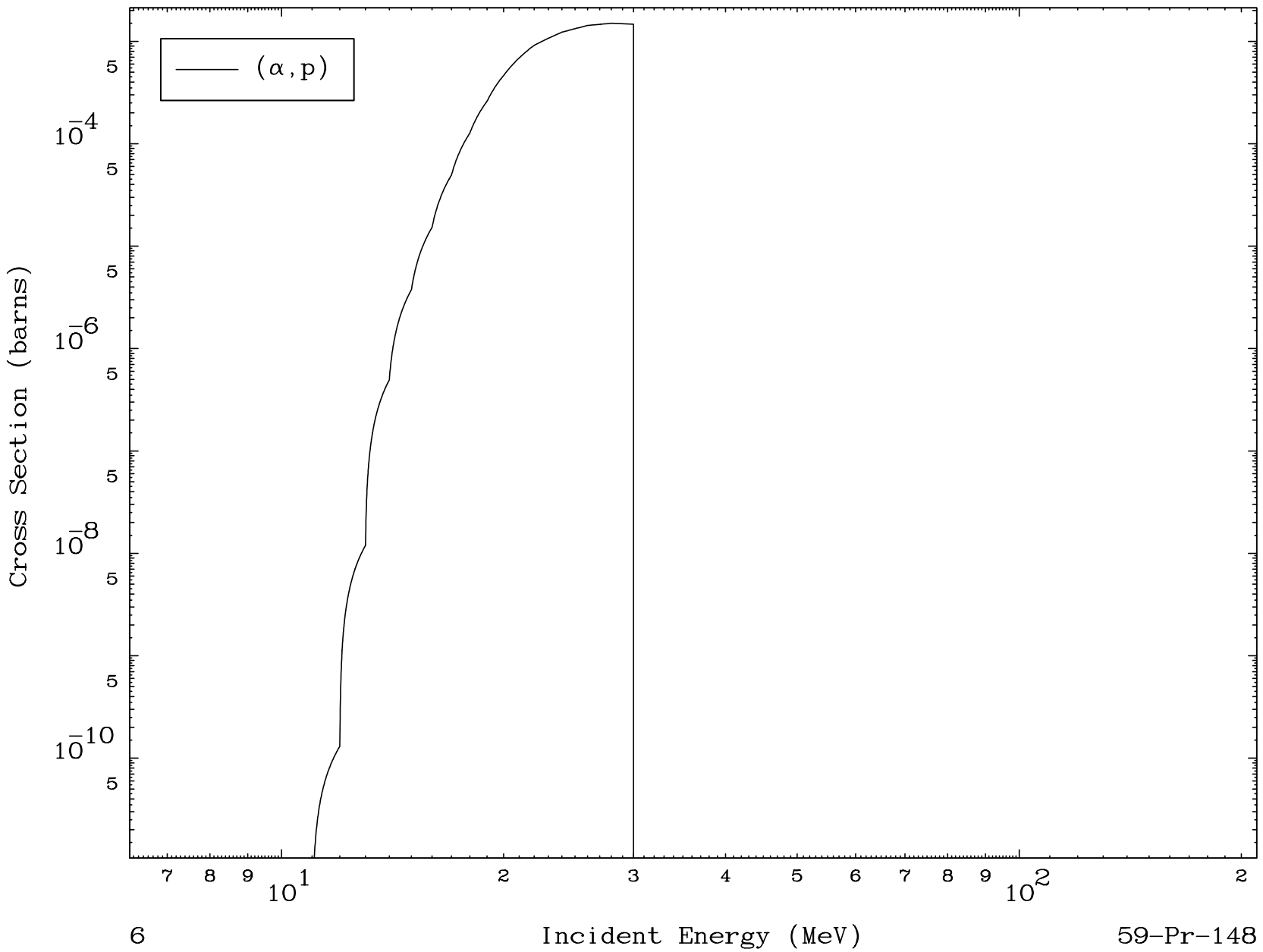

MAT 5947
α Major
59-Pr-148
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
59-Pr-148

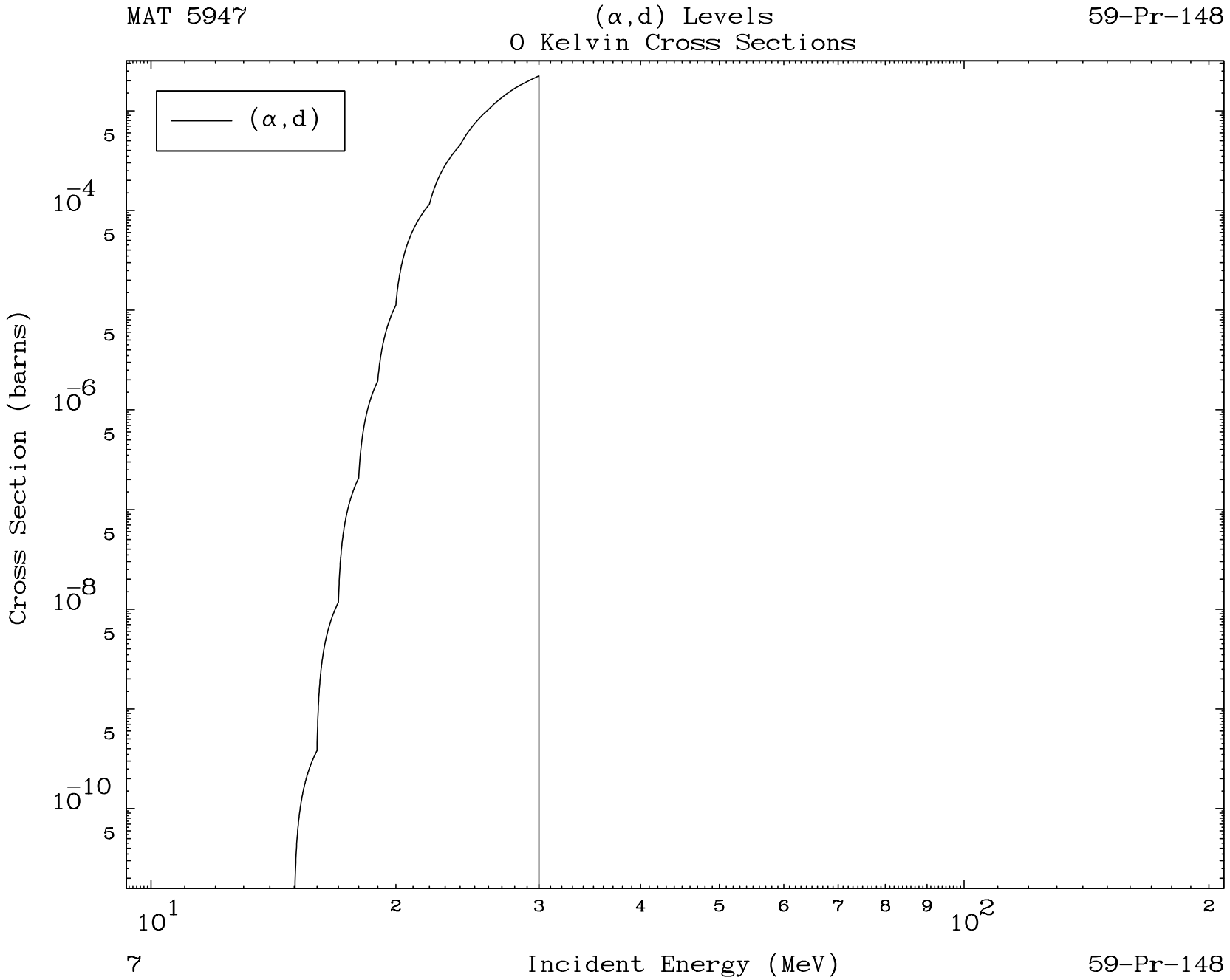

MAT 5947
α Neutron Production
0 Kelvin Cross Sections
59-Pr-148
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,4n)
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
59-Pr-148

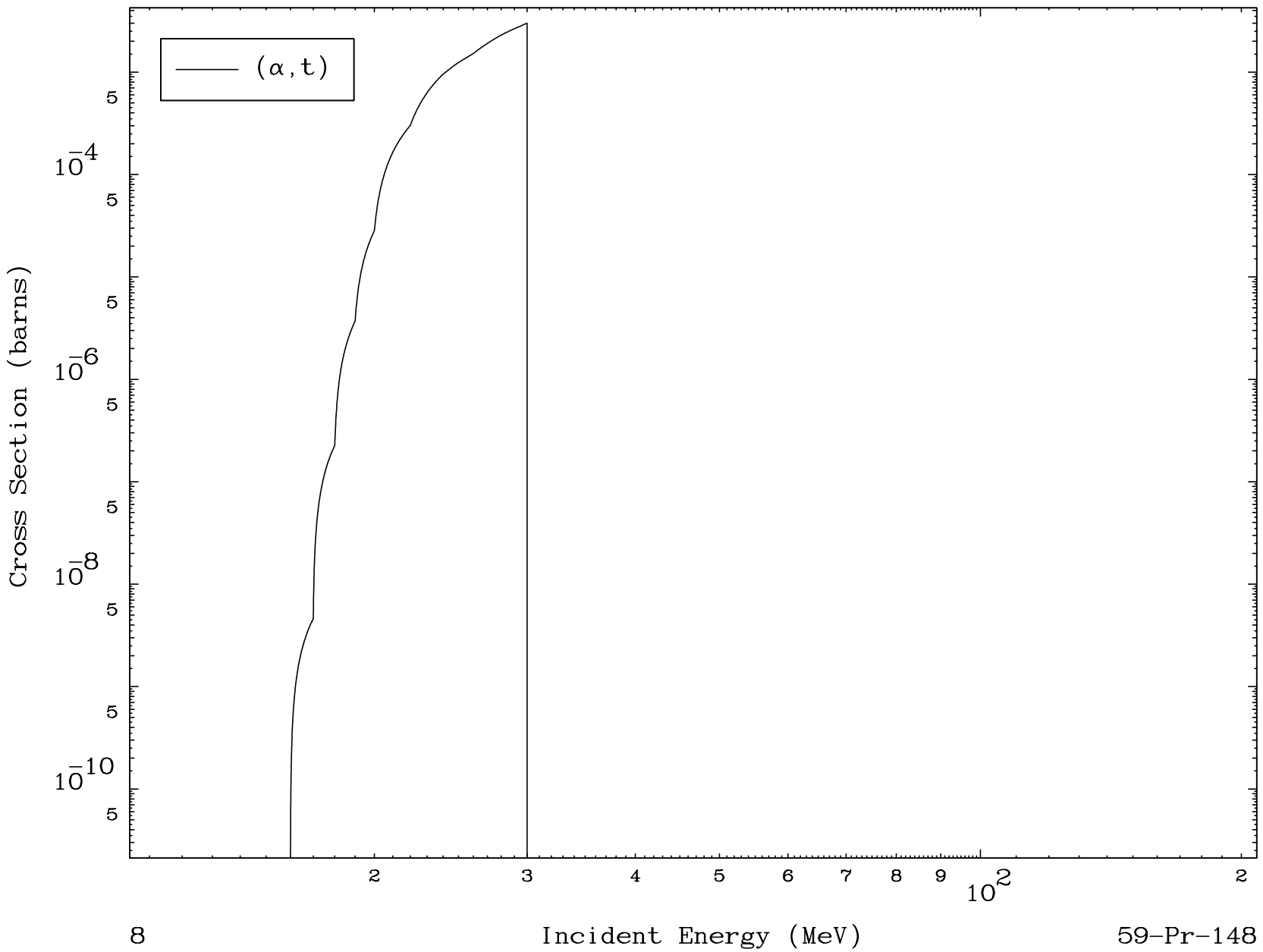

MAT 5947
α Charged Particle
0 Kelvin Cross Sections
59-Pr-148
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
3
59-Pr-148

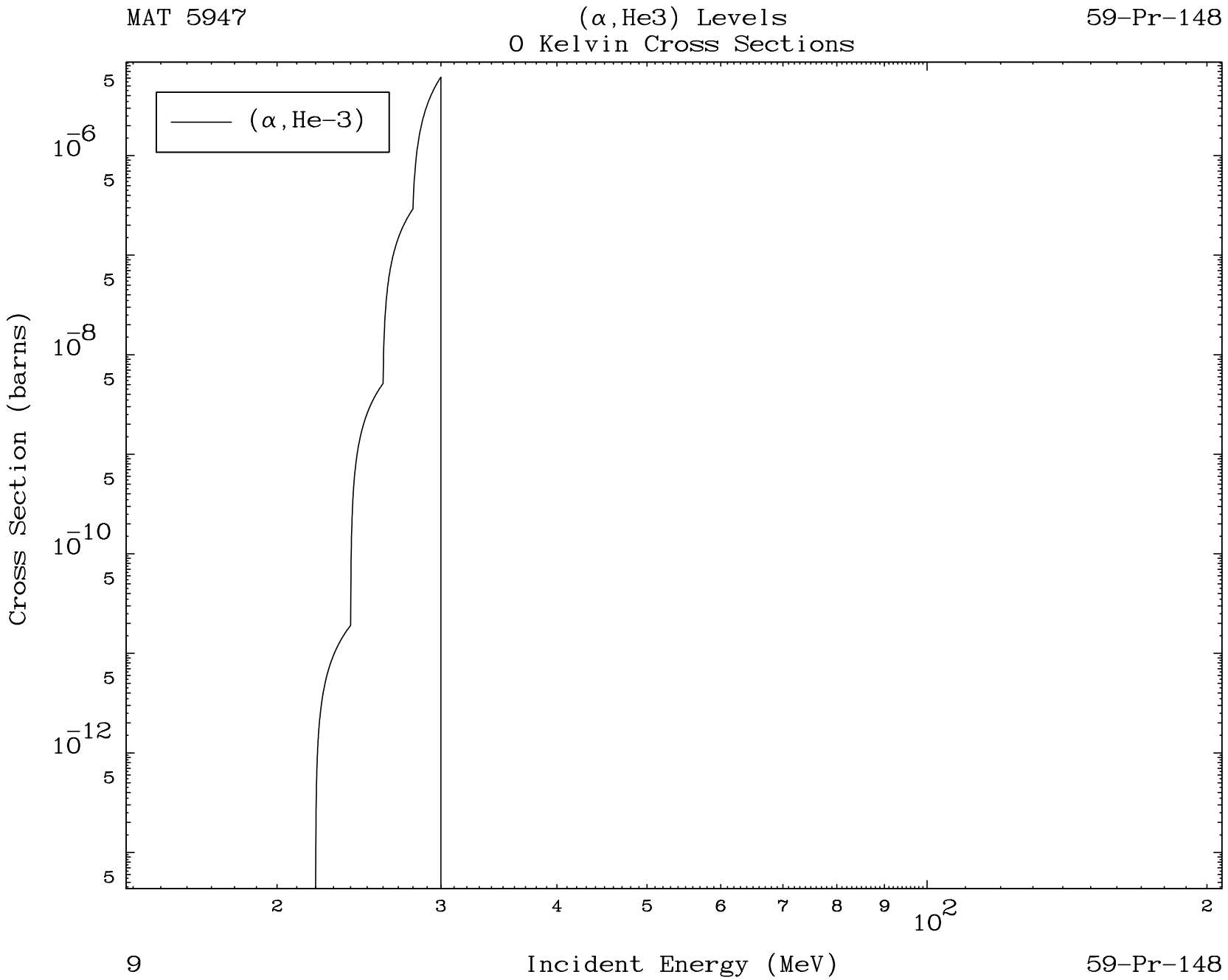

MAT 5947
α Charged Particle
0 Kelvin Cross Sections
59-Pr-148
(α,3n) p
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
Cross Section (barns)
Incident Energy (MeV)
4
59-Pr-148

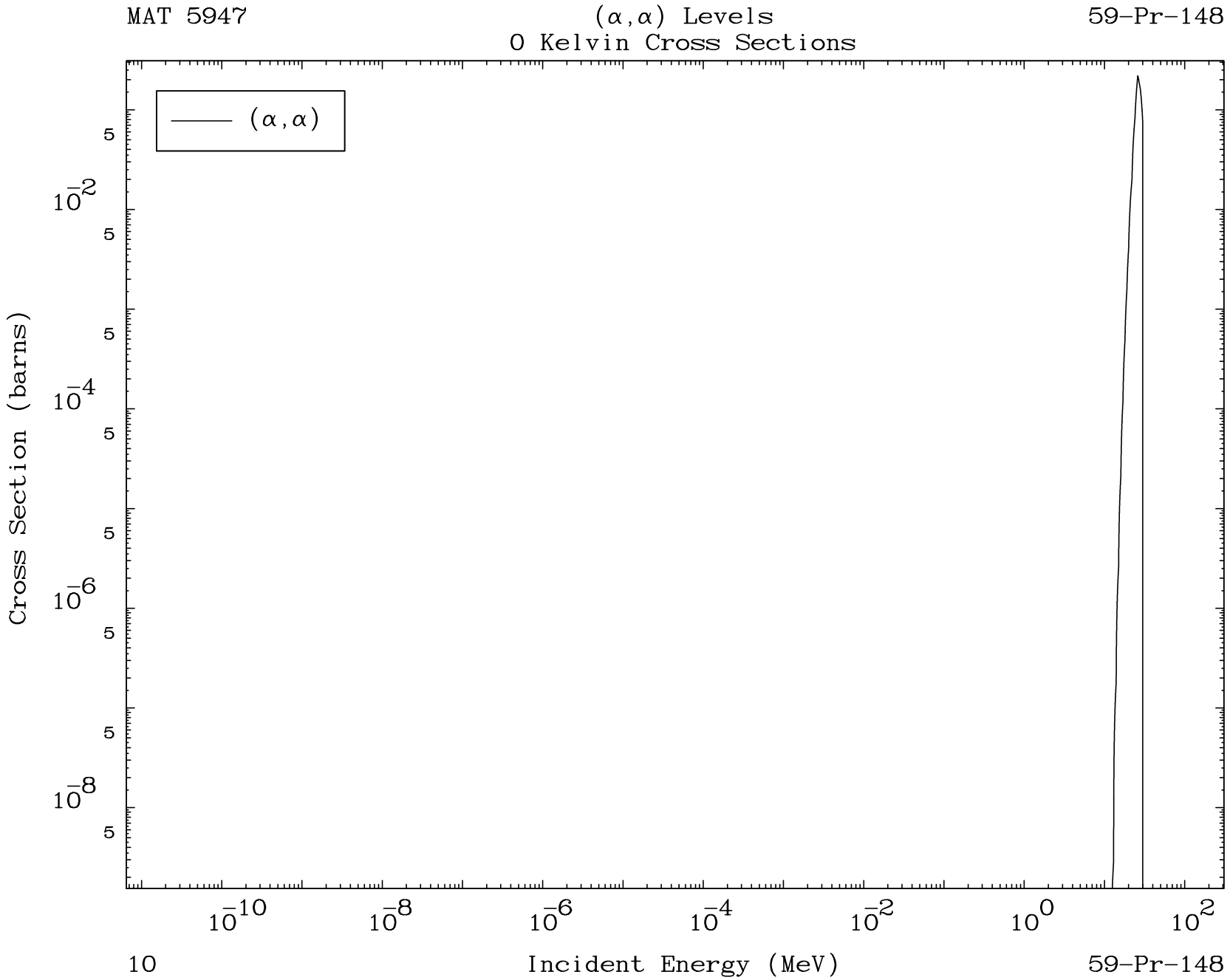

MAT 5947
(α,n') Level
59-Pr-148
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6
7
8
9
10 1
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
59-Pr-148

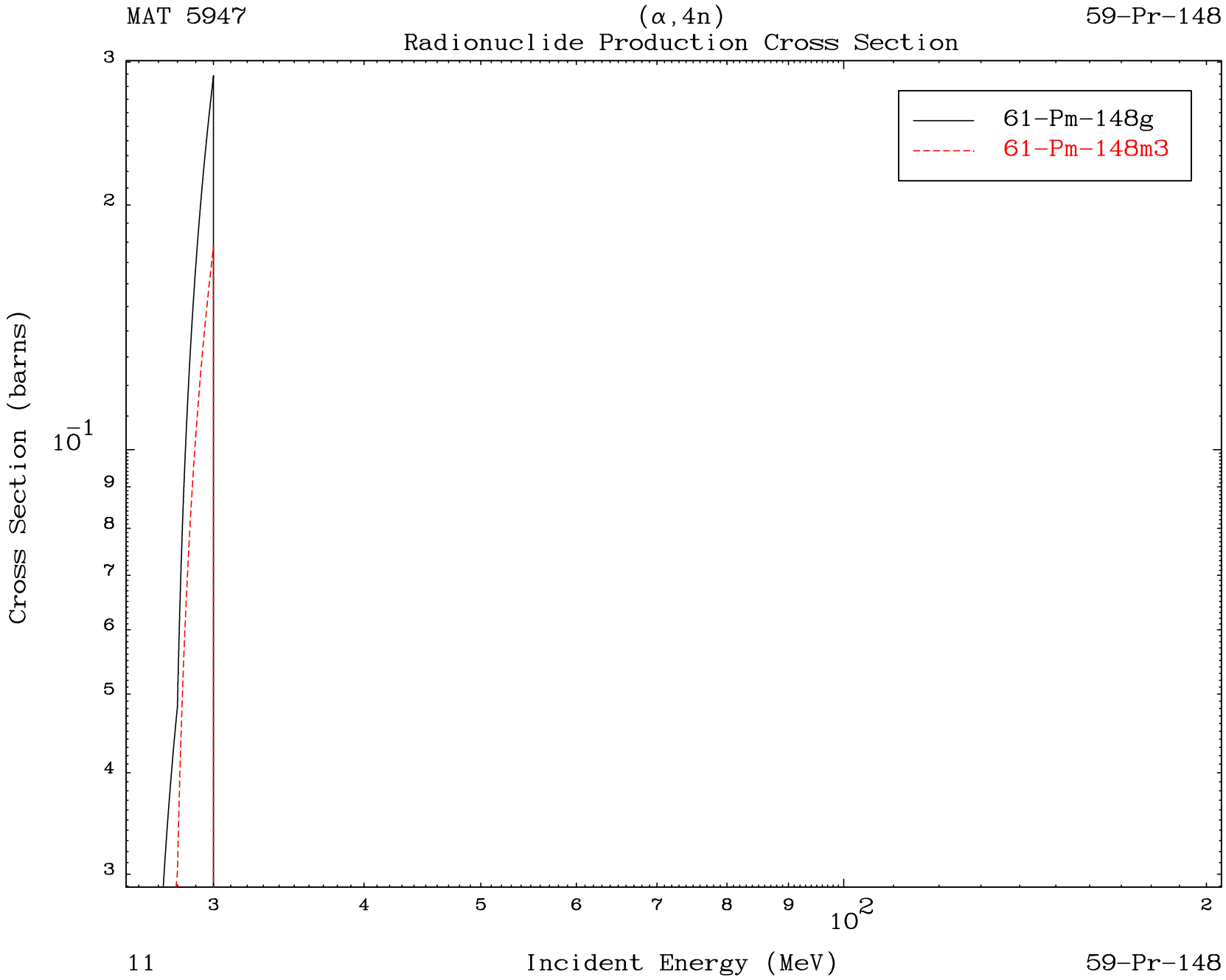

0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

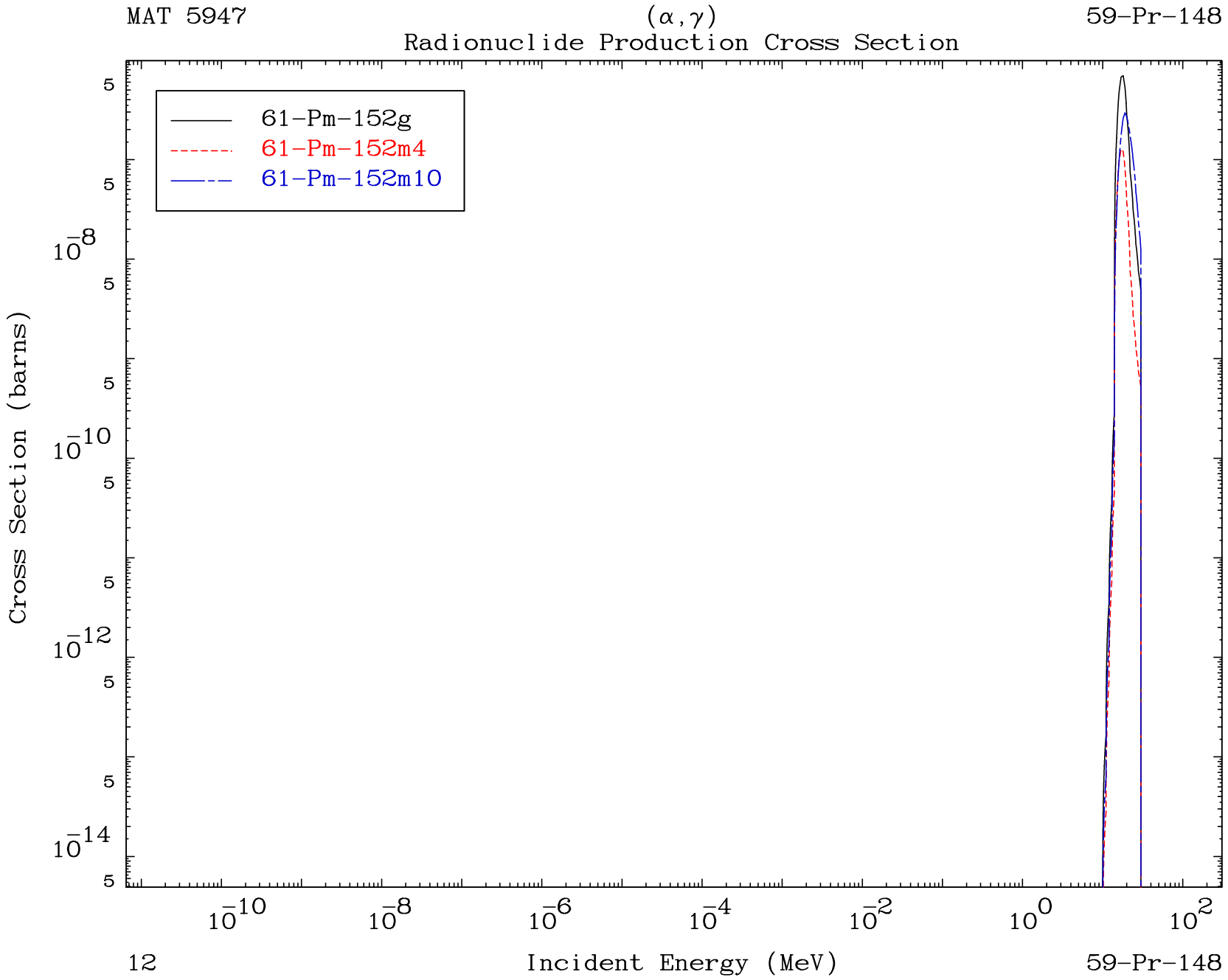

MAT 5947
(α,d) Levels
59-Pr-148
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
10 1
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
7
59-Pr-148

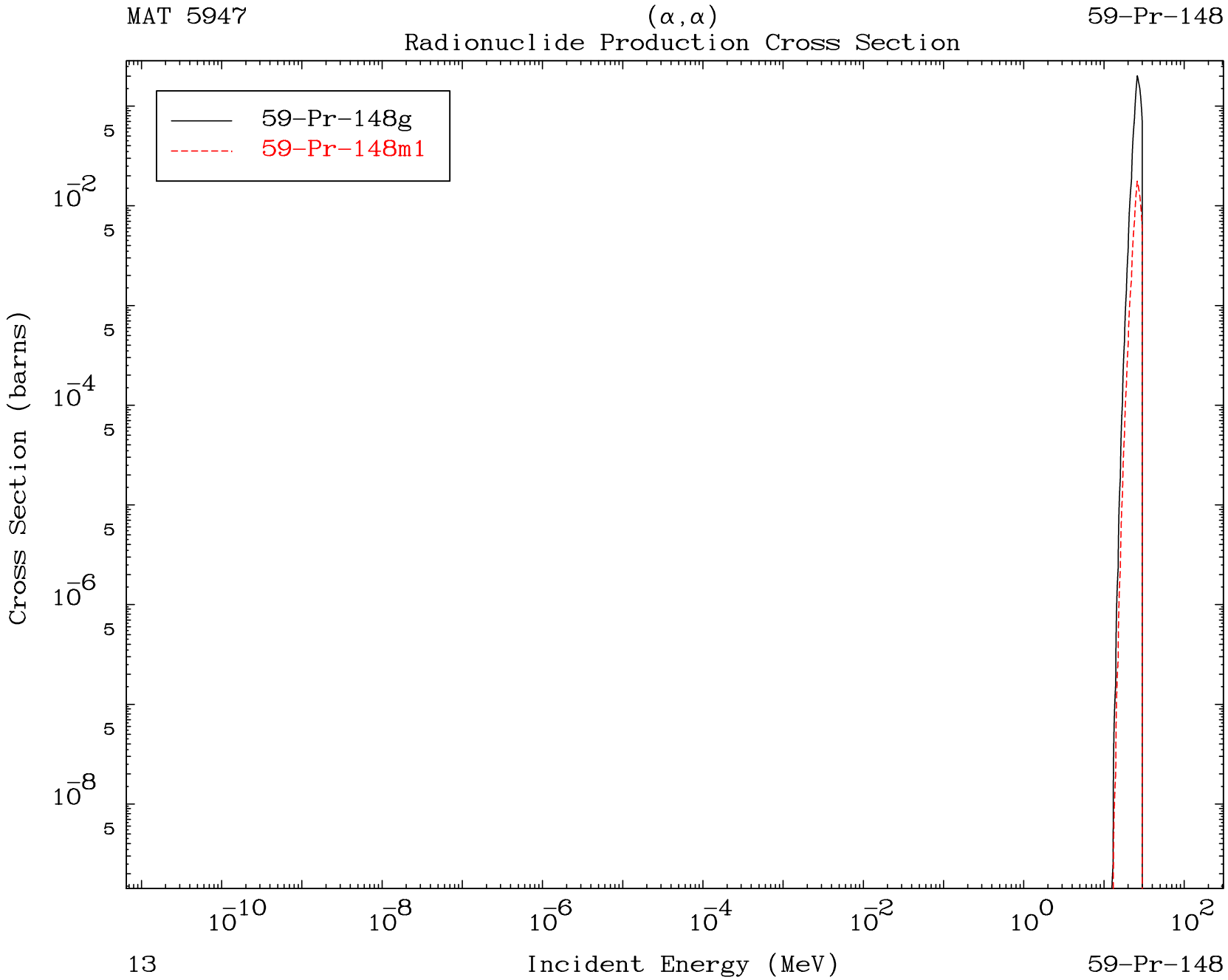

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)


MAT 5947
(α,He3) Levels
59-Pr-148
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
9
59-Pr-148


MAT 5947
(α,α) Levels
59-Pr-148
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
Incident Energy (MeV)
10
59-Pr-148


MAT 5947
(α,4n)
59-Pr-148
Radionuclide Production Cross Section
61-Pm-148g
61-Pm-148m3
Cross Section (barns)
10-1
3
2
9
8
7
6
5
4
3
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
59-Pr-148


MAT 5947
(α,γ)
59-Pr-148
Radionuclide Production Cross Section
61-Pm-152g
61-Pm-152m4
61-Pm-152m10
Cross Section (barns)
Incident Energy (MeV)
12
59-Pr-148


MAT 5947
(α,α)
59-Pr-148
Radionuclide Production Cross Section
59-Pr-148g
59-Pr-148m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
59-Pr-148