Program EVALPLOT
(Version 2018-1)
by
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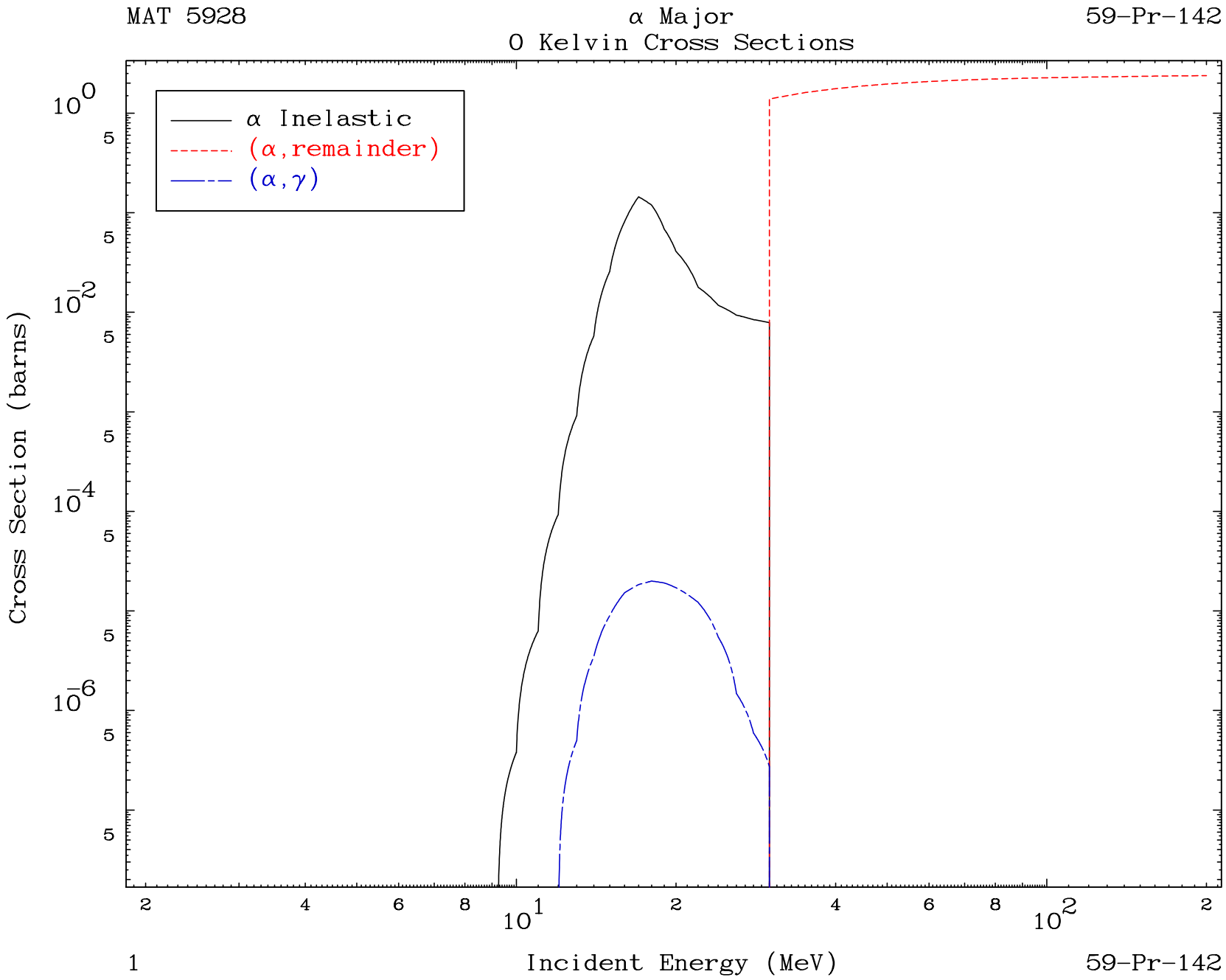
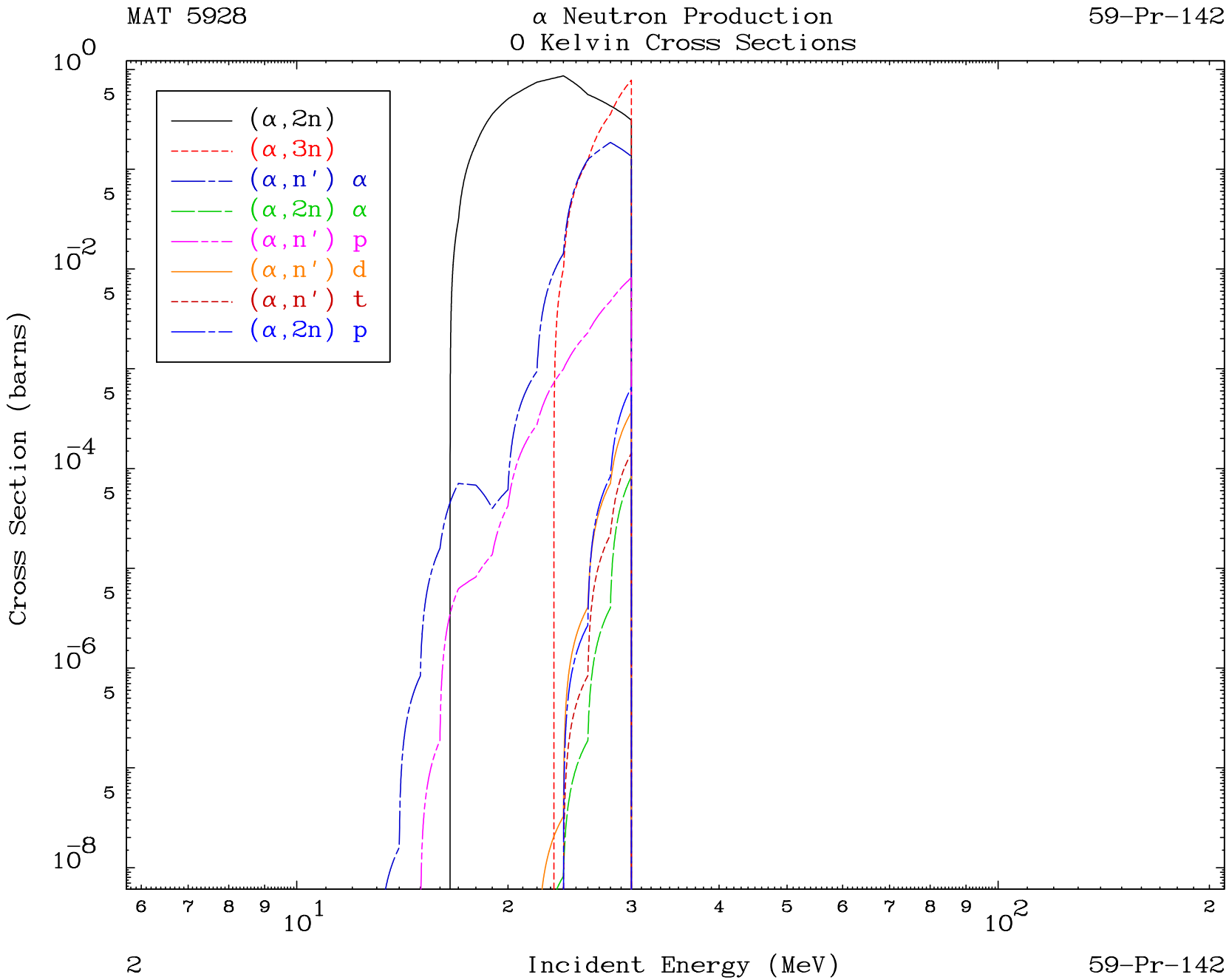
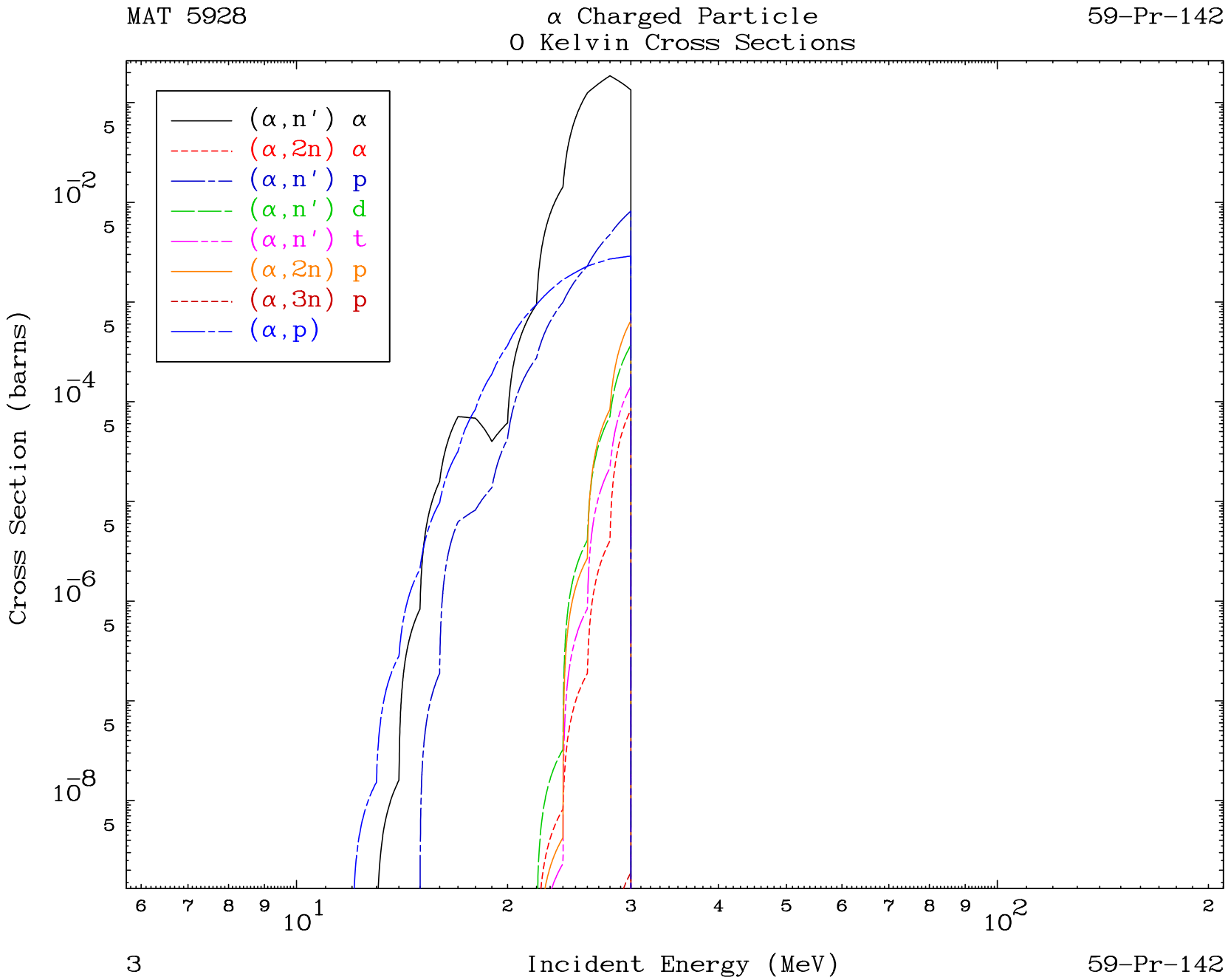
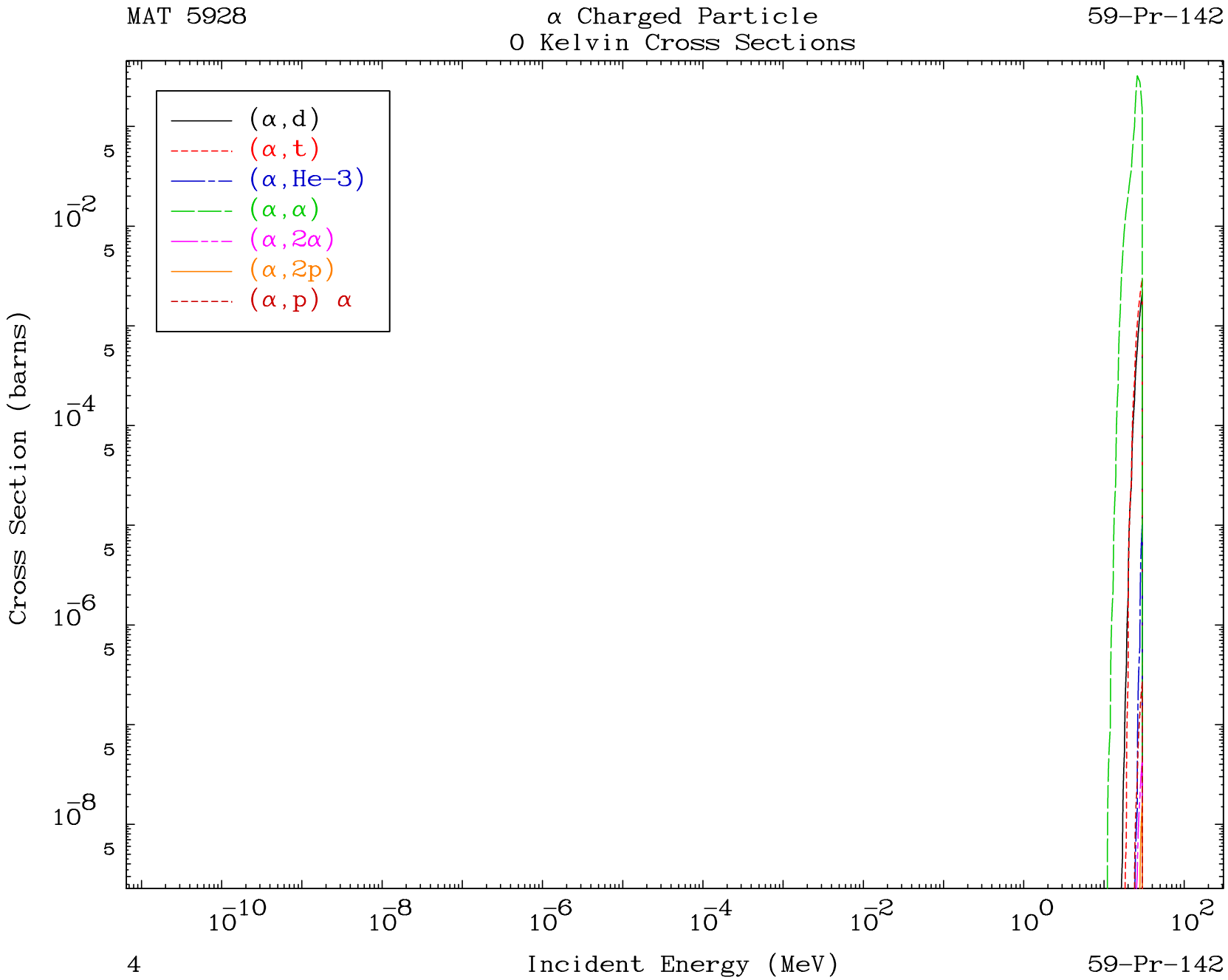
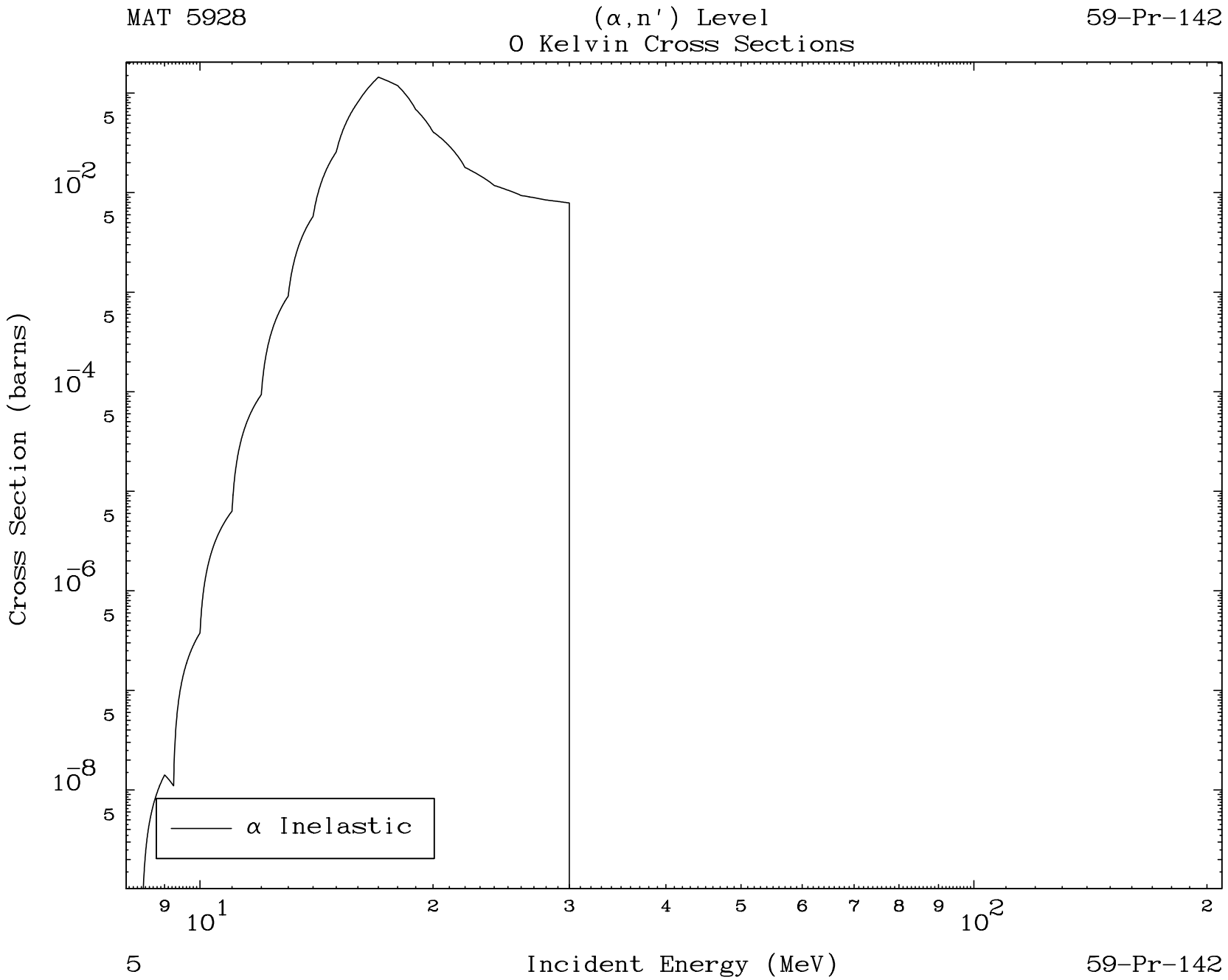
Press Mouse Button to Start

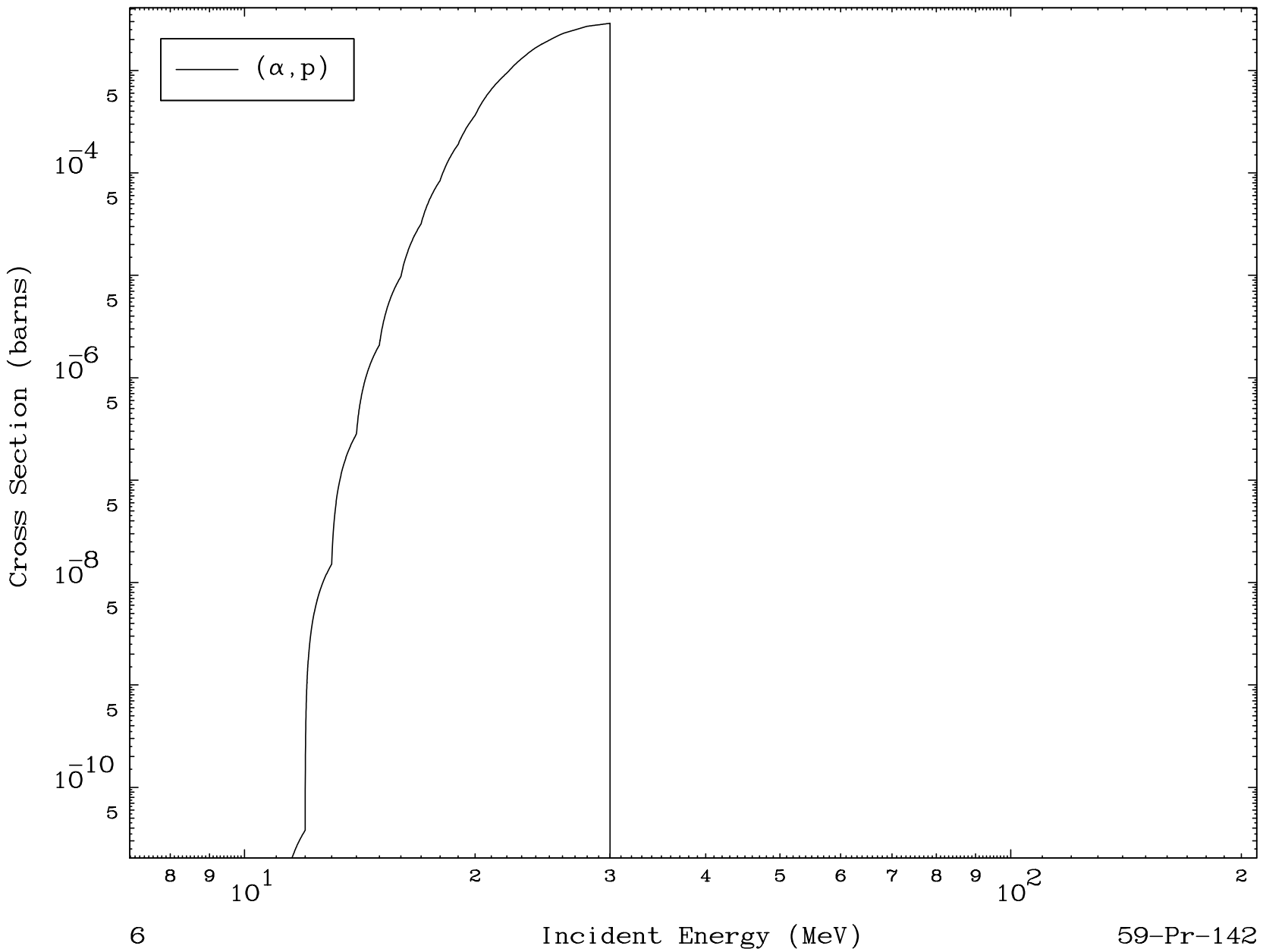

MAT 5928
α Major
59-Pr-142
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
59-Pr-142

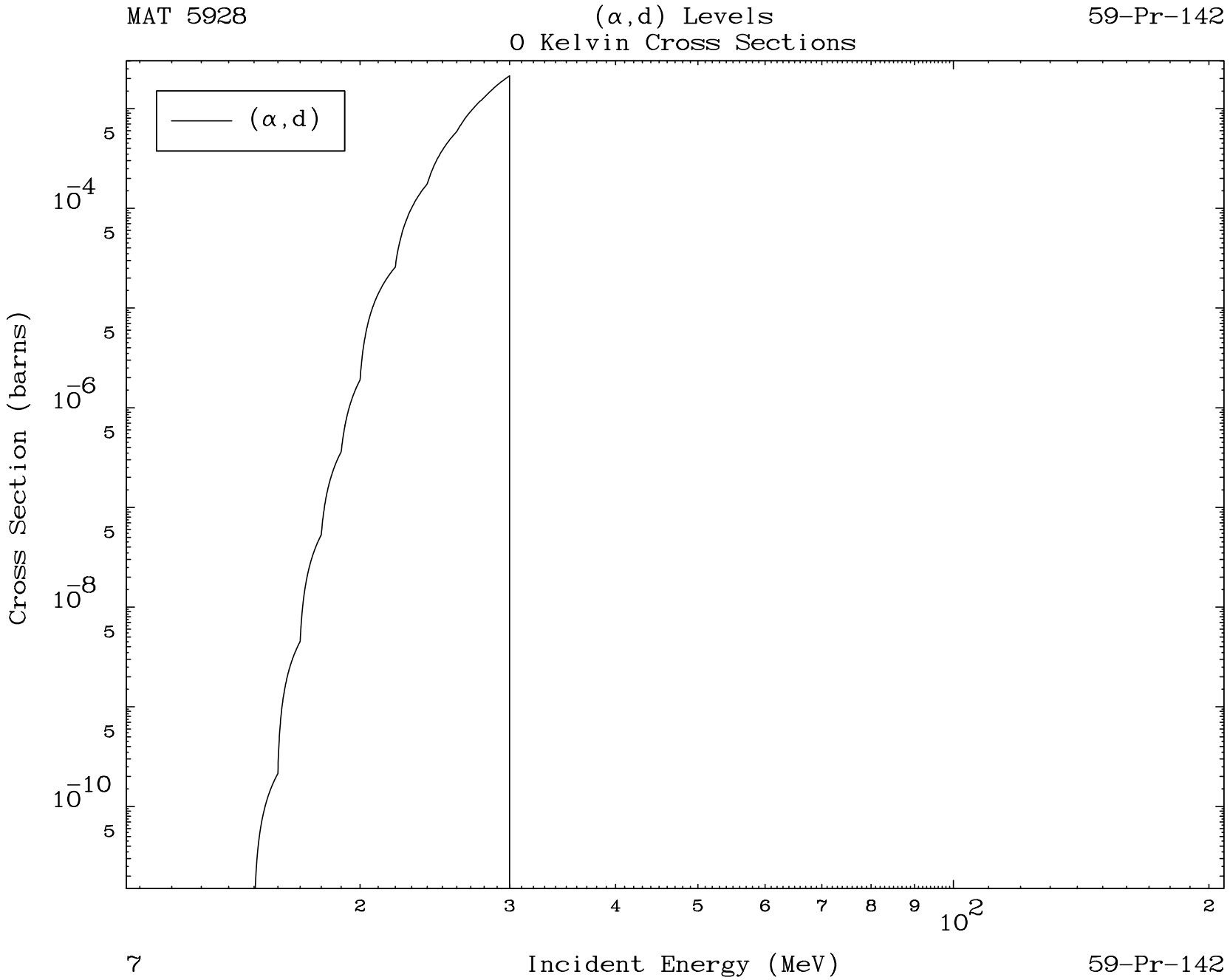

MAT 5928
α Neutron Production
0 Kelvin Cross Sections
59-Pr-142
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
59-Pr-142

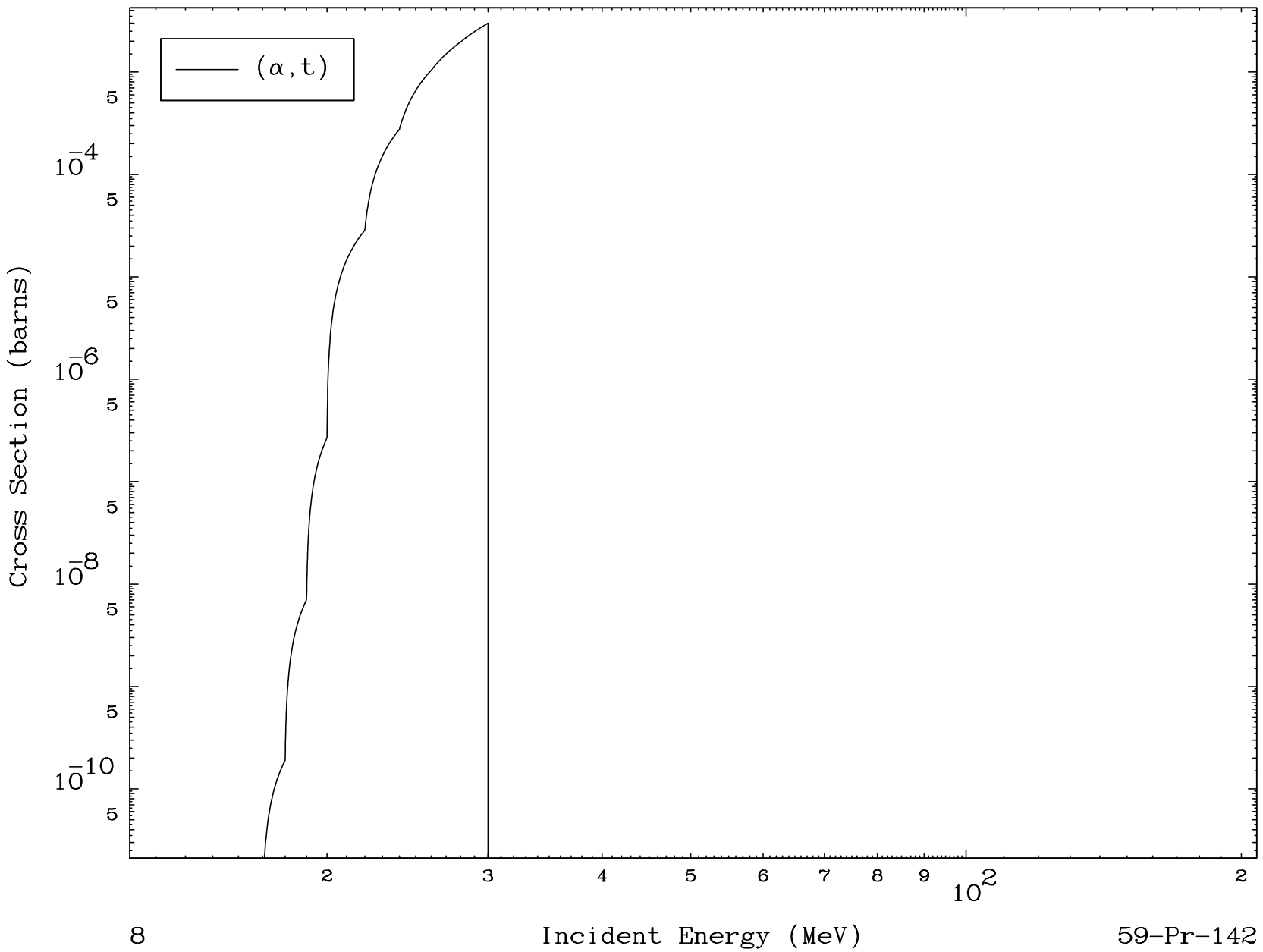

MAT 5928
α Charged Particle
0 Kelvin Cross Sections
59-Pr-142
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
(α,3n) p
(α,p)
Cross Section (barns)
Incident Energy (MeV)
3
59-Pr-142

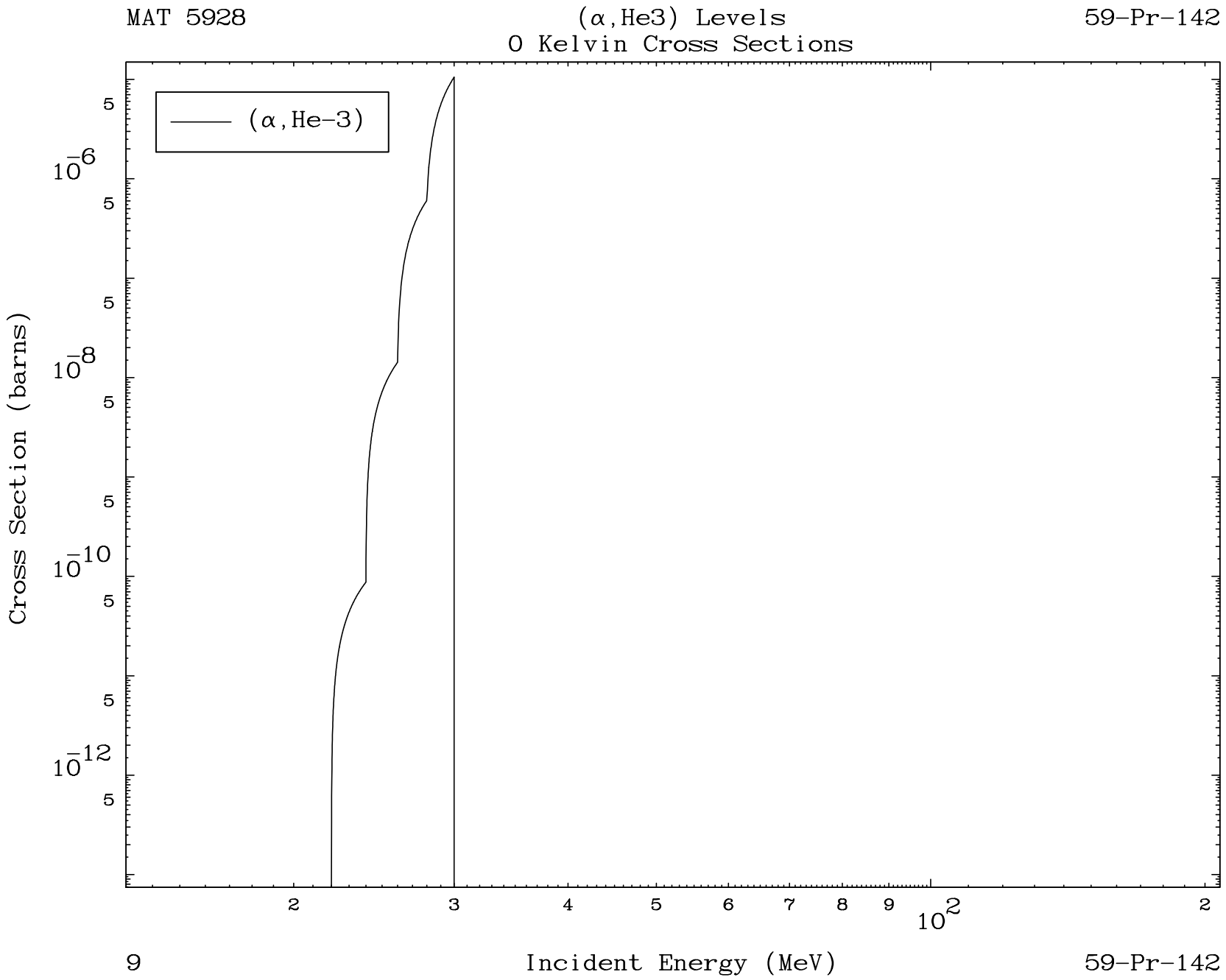

MAT 5928
α Charged Particle
0 Kelvin Cross Sections
59-Pr-142
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
Cross Section (barns)
Incident Energy (MeV)
4
59-Pr-142

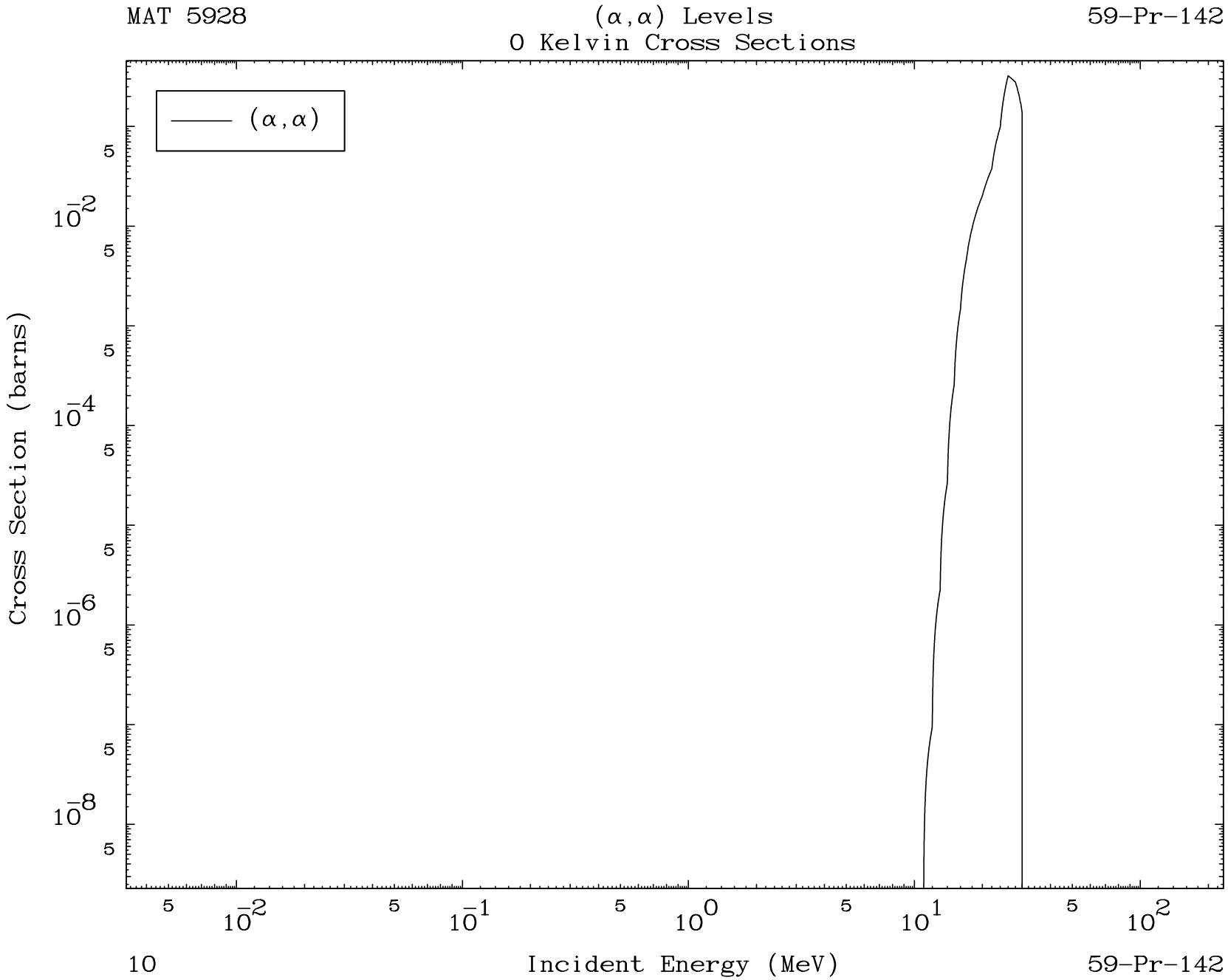

MAT 5928
(α,n') Level
59-Pr-142
0 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
α Inelastic
9
10 1
2
3
4
5
6
7
8
9
10 2
2
5
Incident Energy (MeV)
59-Pr-142

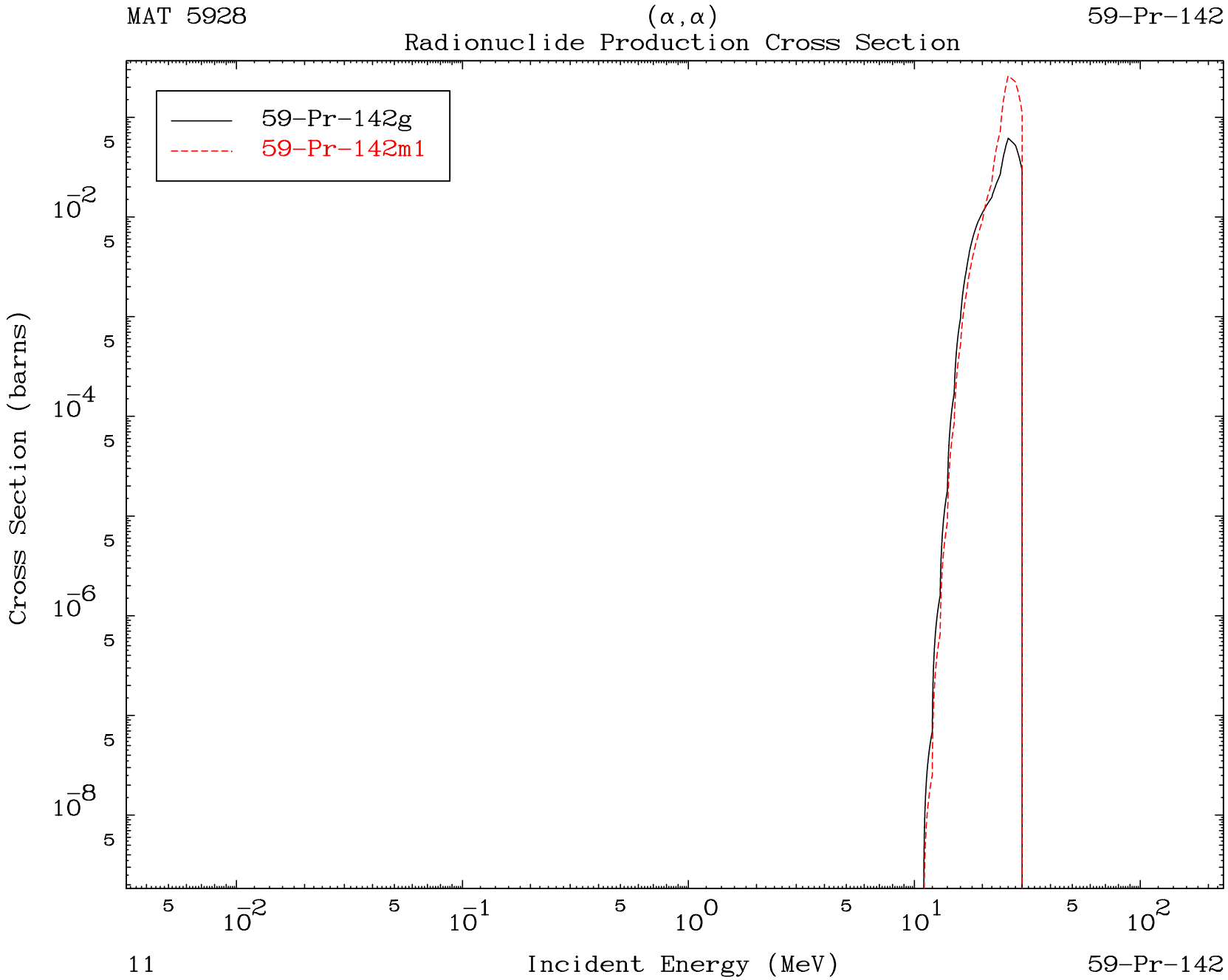

0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

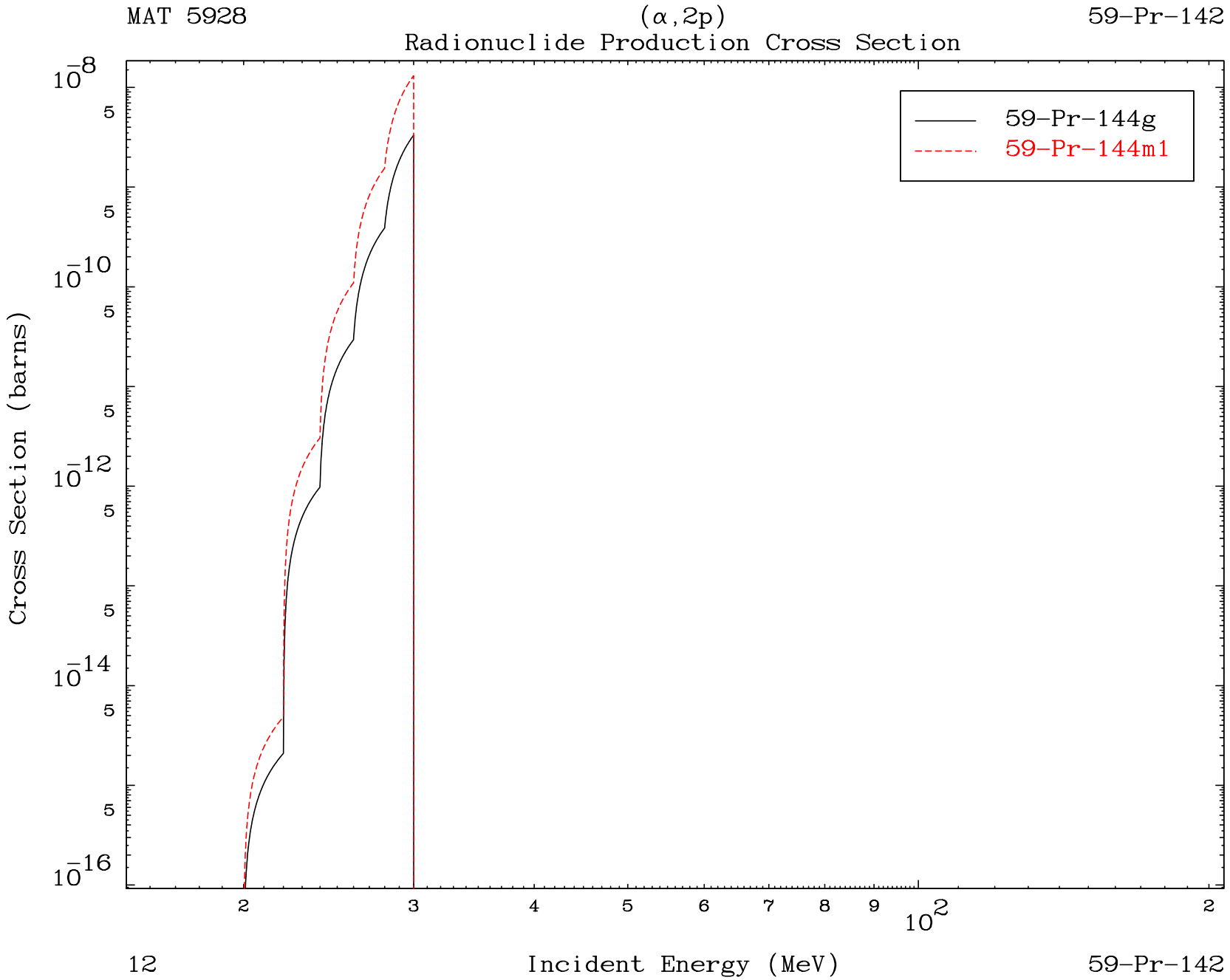

MAT 5928
(α,d) Levels
59-Pr-142
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
7
59-Pr-142


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 5928
(α,He3) Levels
59-Pr-142
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-142


MAT 5928
(α,α) Levels
59-Pr-142
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-2
10^-1
10^0
10^1
10^2
Incident Energy (MeV)
59-Pr-142


MAT 5928
(α,α)
59-Pr-142
Radionuclide Production Cross Section
59-Pr-142g
59-Pr-142m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
10-2
10-1
100
101
102
11
Incident Energy (MeV)
59-Pr-142


MAT 5928
(α,2p)
59-Pr-142
Radionuclide Production Cross Section
59-Pr-144g
59-Pr-144m1
Cross Section (barns)
10-8
10-10
10-12
10-14
10-16
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
12
59-Pr-142