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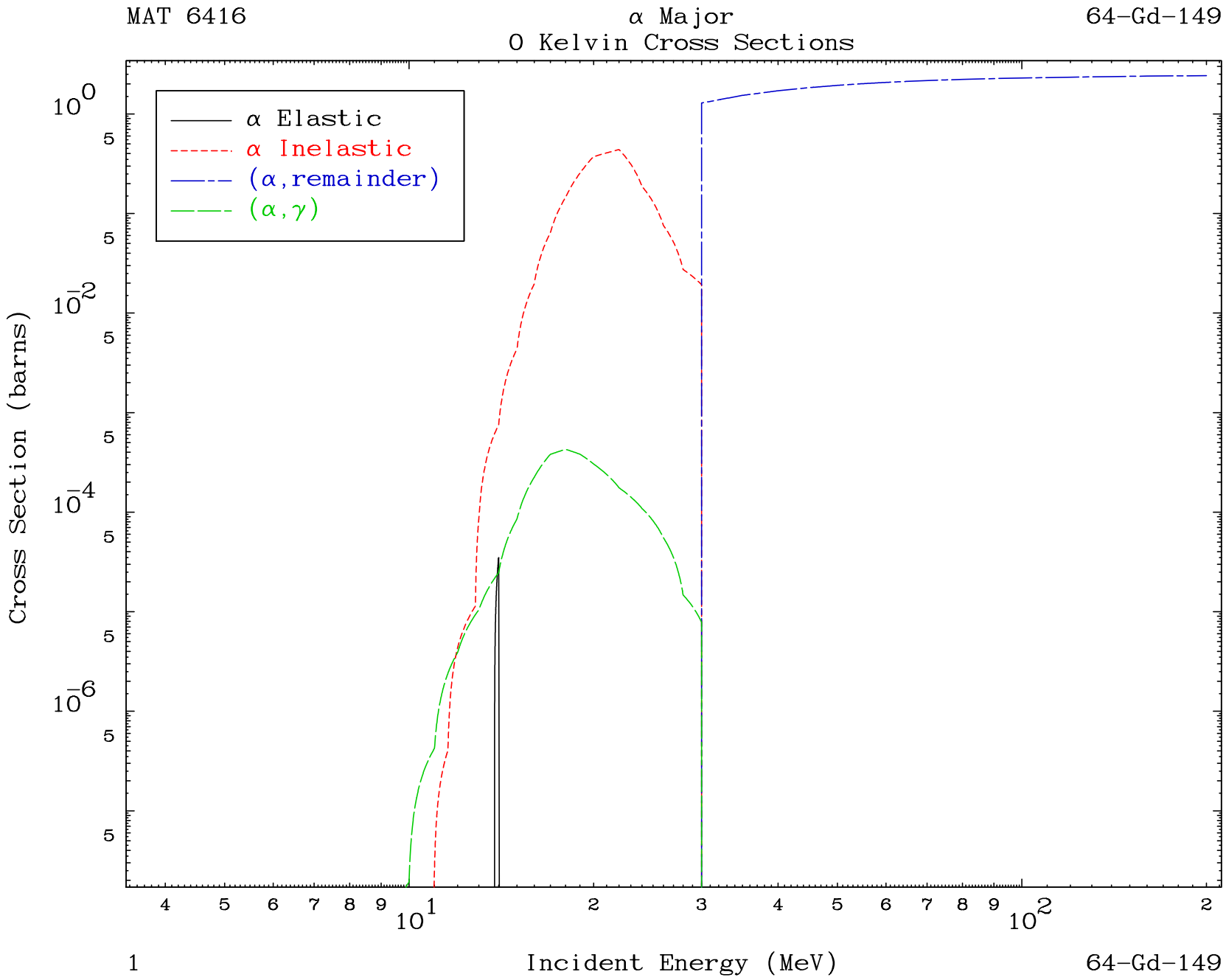
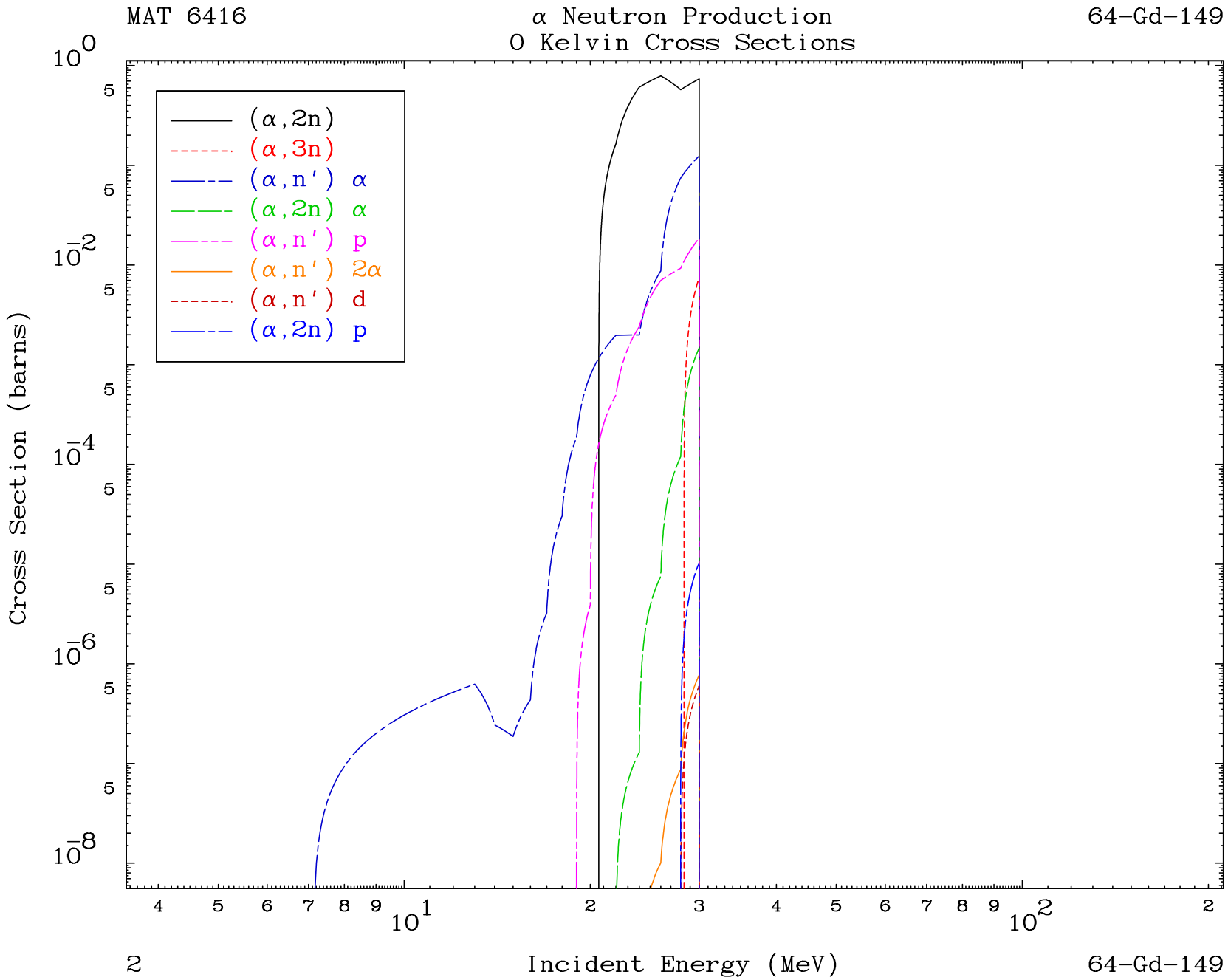
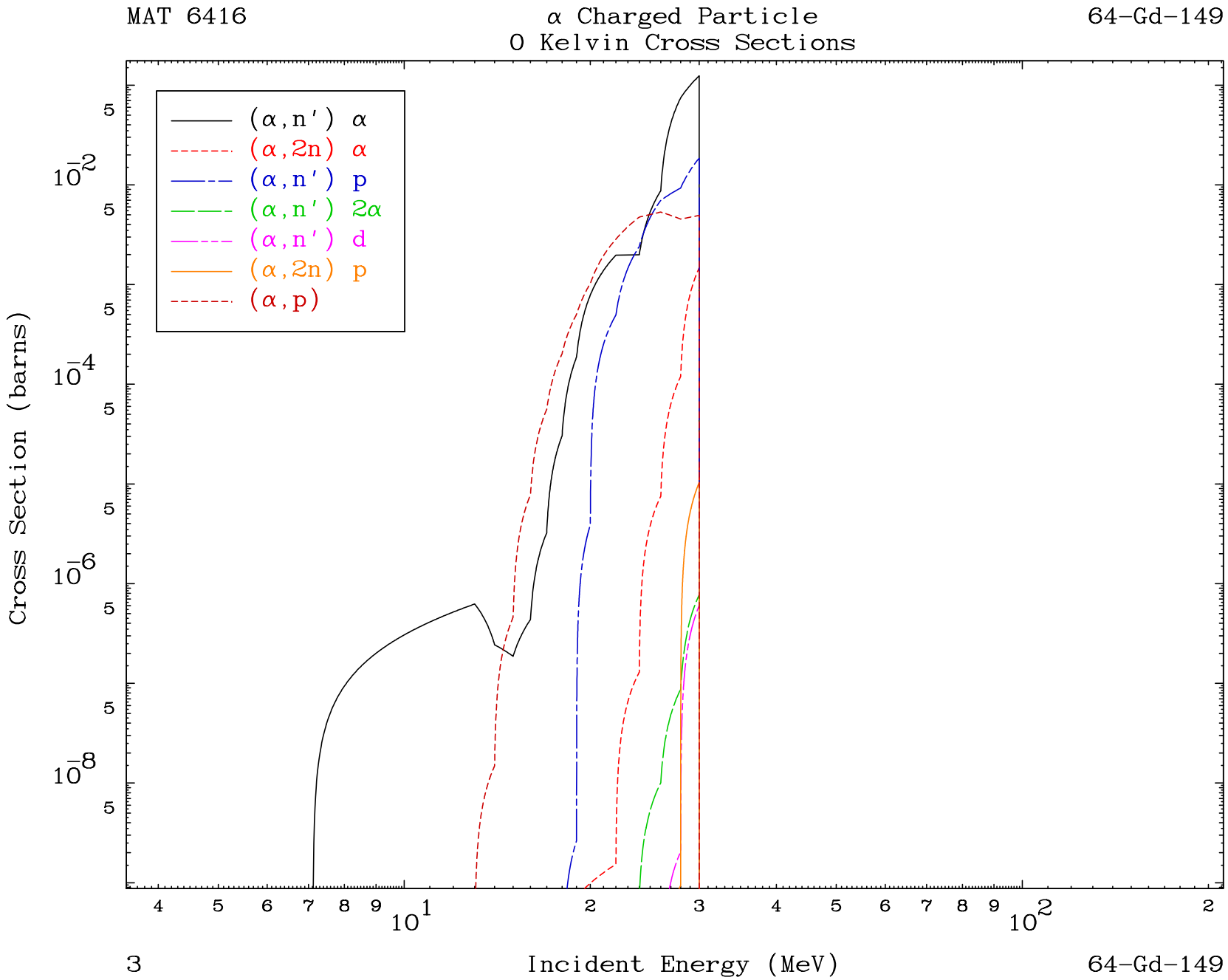
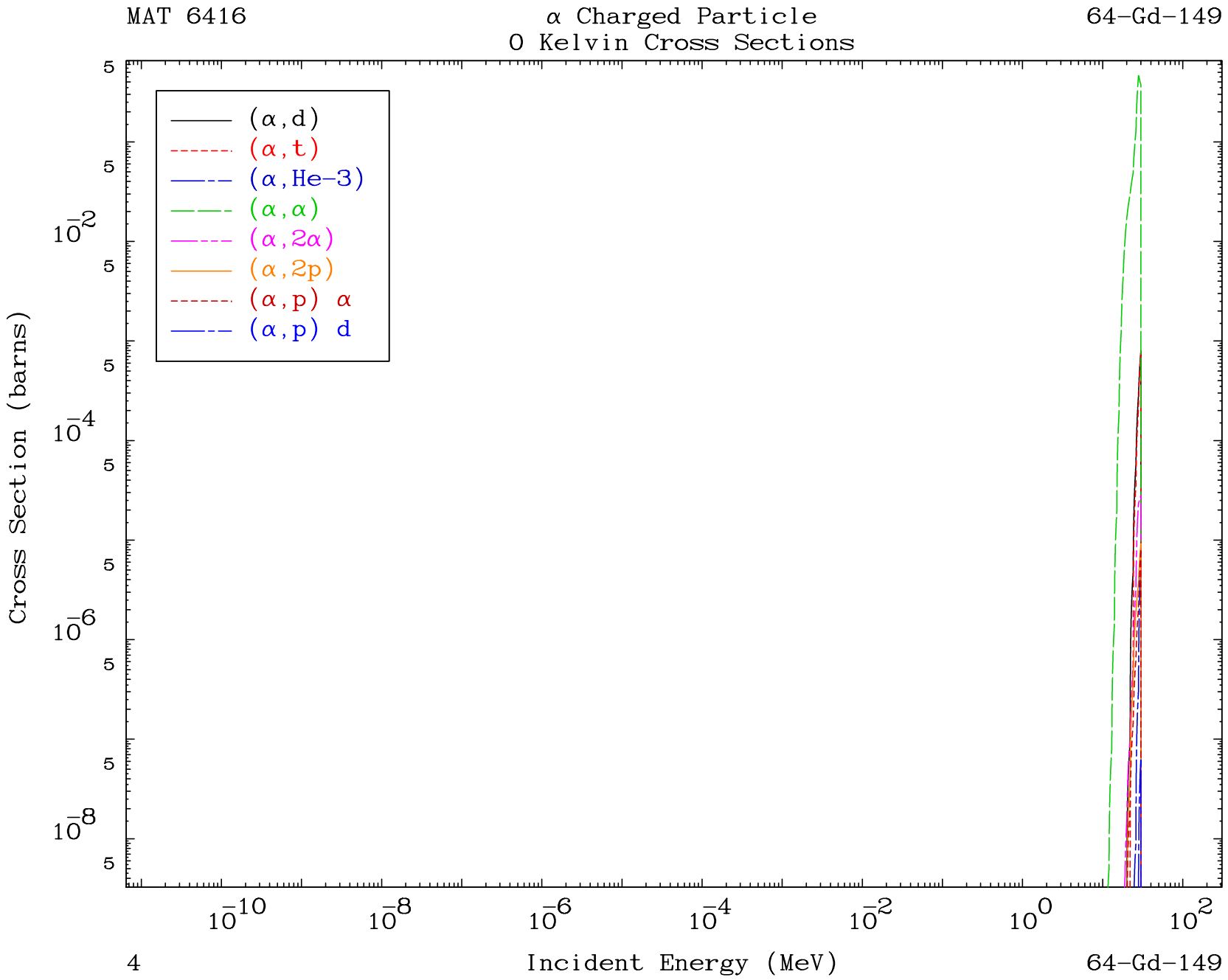
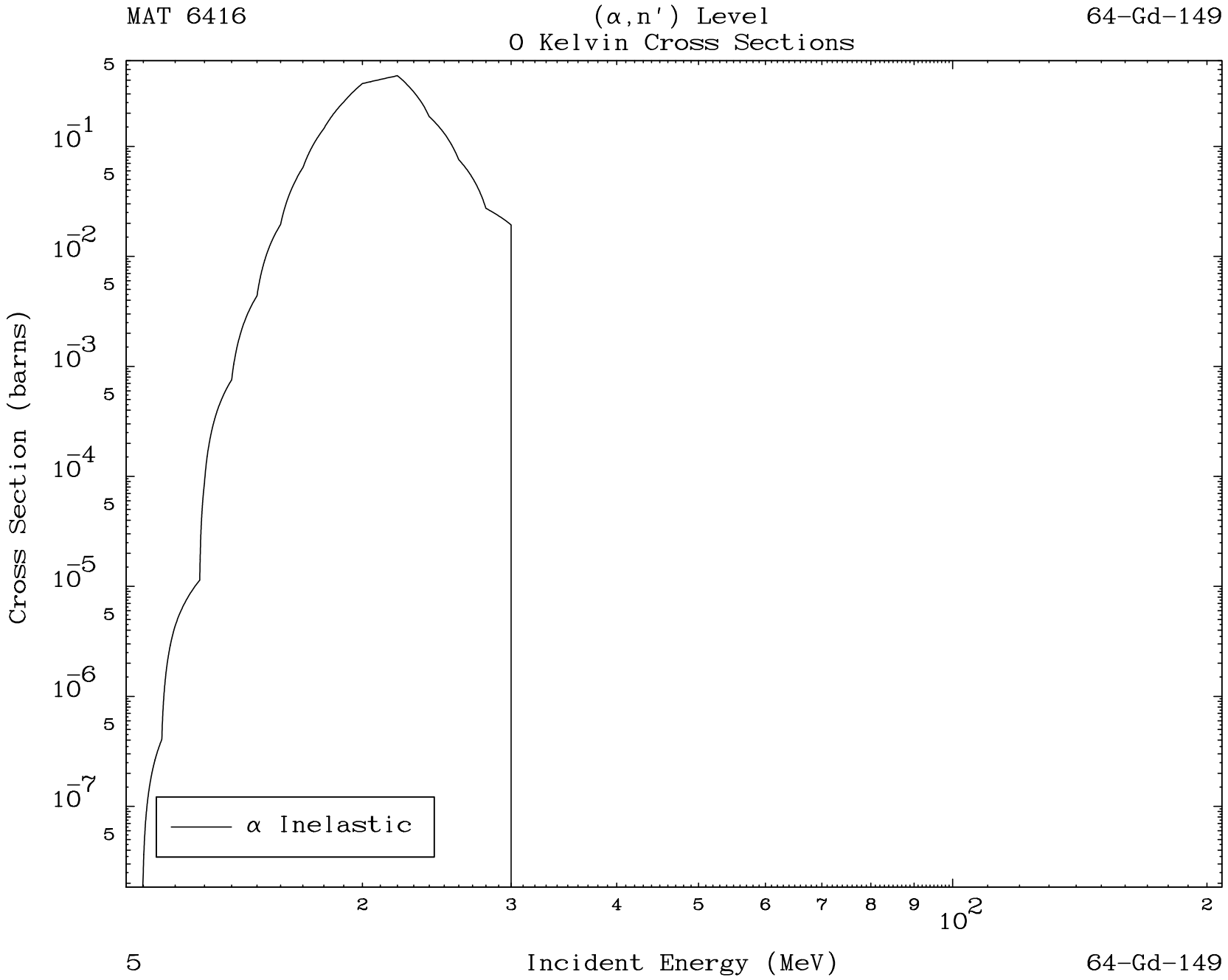
Press Mouse Button to Start

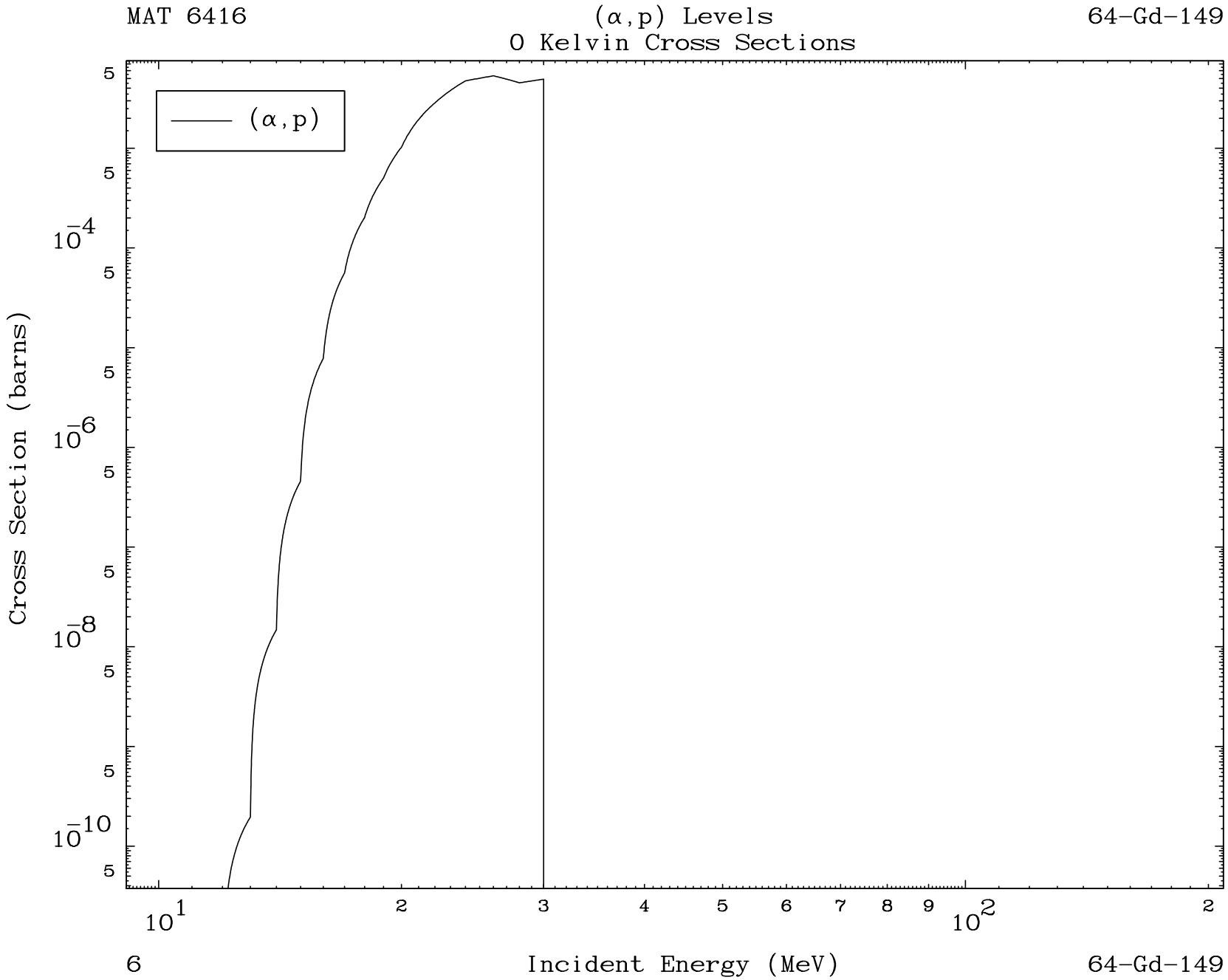

MAT 6416
α Major
64-Gd-149
0 Kelvin Cross Sections
α Elastic
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
64-Gd-149

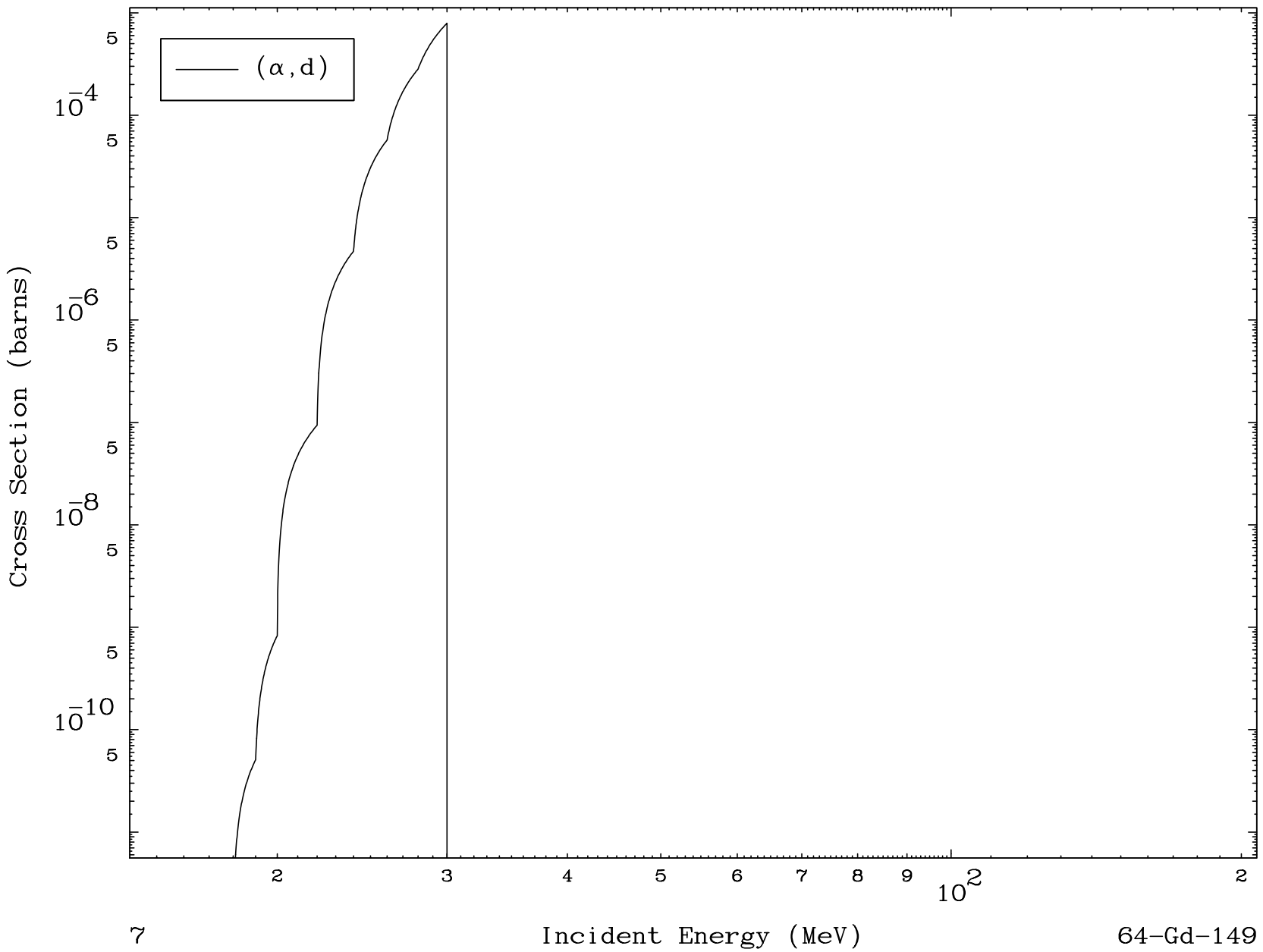

MAT 6416
α Neutron Production
0 Kelvin Cross Sections
64-Gd-149
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
64-Gd-149


MAT 6416
α Charged Particle
0 Kelvin Cross Sections
64-Gd-149
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,2n) p
(α,p)
Cross Section (barns)
Incident Energy (MeV)
3
64-Gd-149

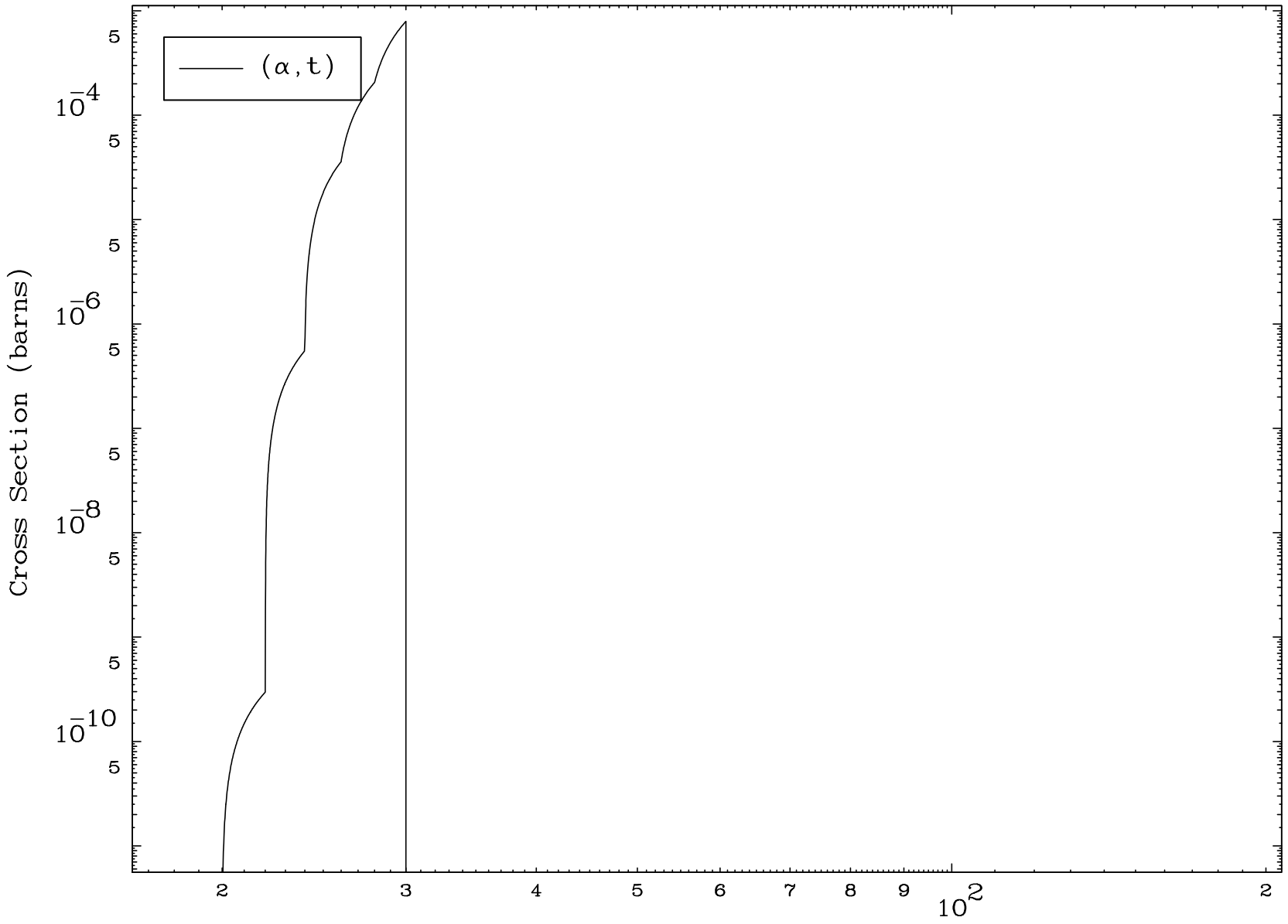

MAT 6416
α Charged Particle
0 Kelvin Cross Sections
64-Gd-149
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
Cross Section (barns)
Incident Energy (MeV)
4
64-Gd-149

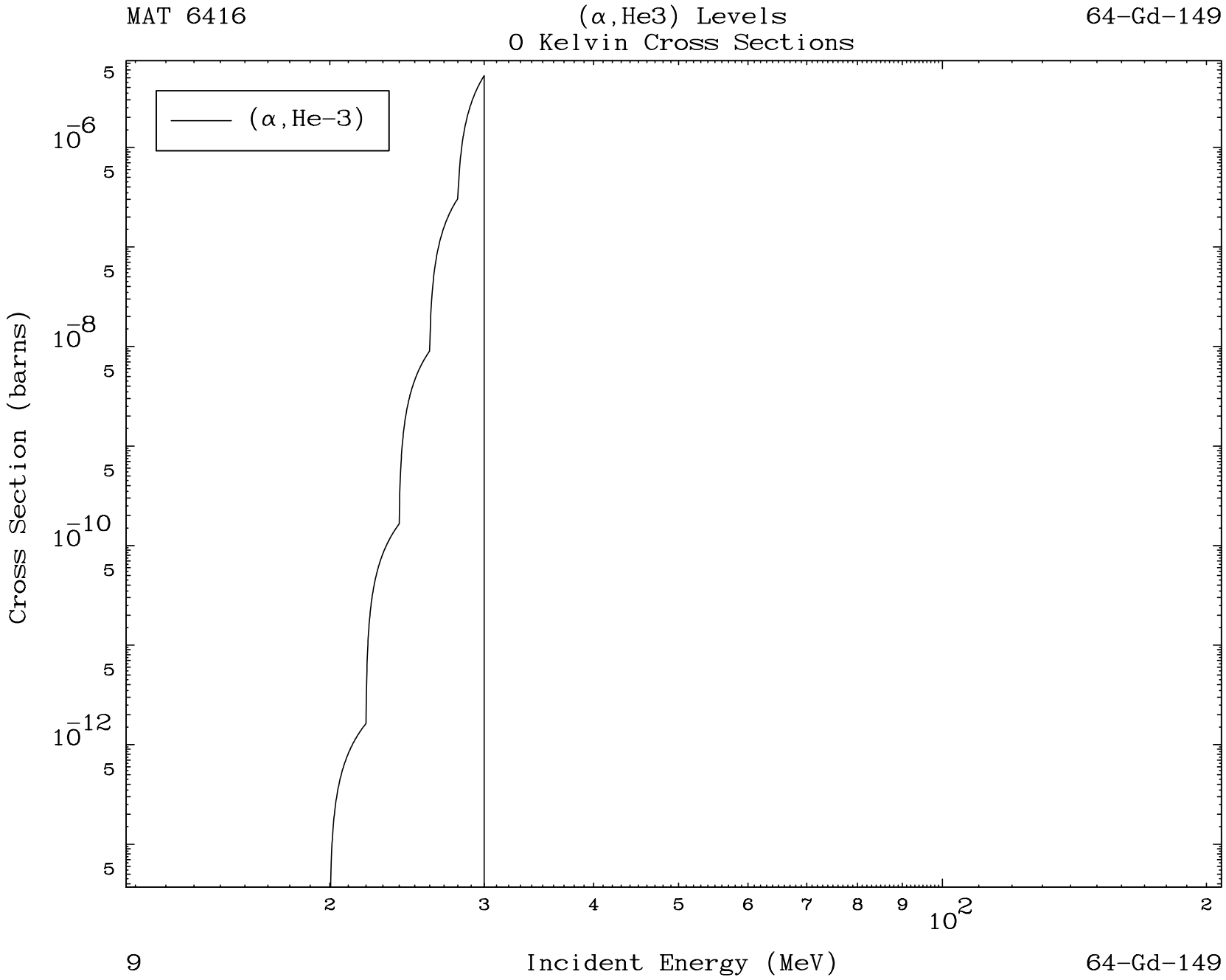

MAT 6416
(α,n') Level
64-Gd-149
0 Kelvin Cross Sections
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-7
5
α Inelastic
2
3
4
5
6
7
8
9
10^2
2
5
Incident Energy (MeV)
64-Gd-149

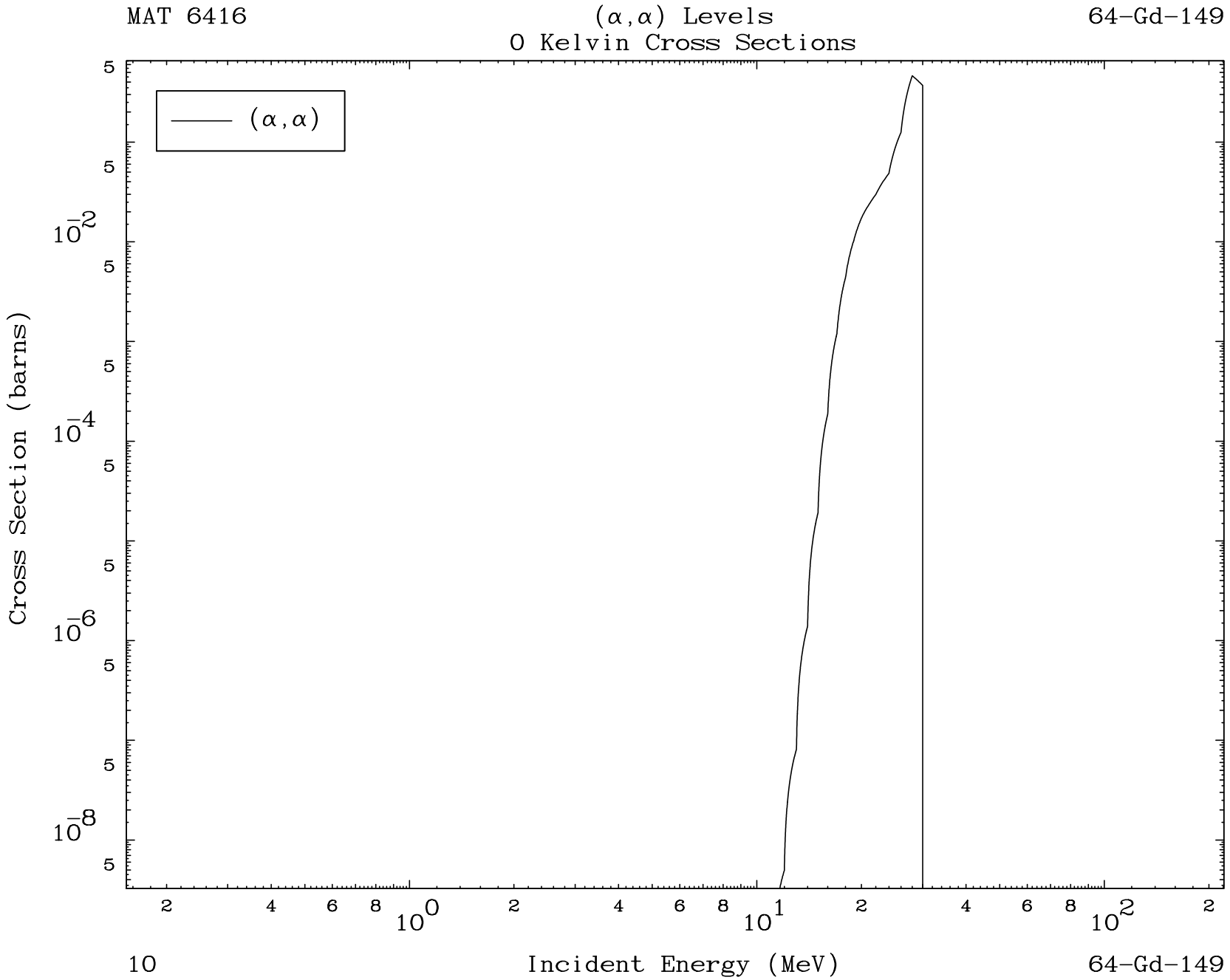

MAT 6416
(α,p) Levels
64-Gd-149
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
6
64-Gd-149

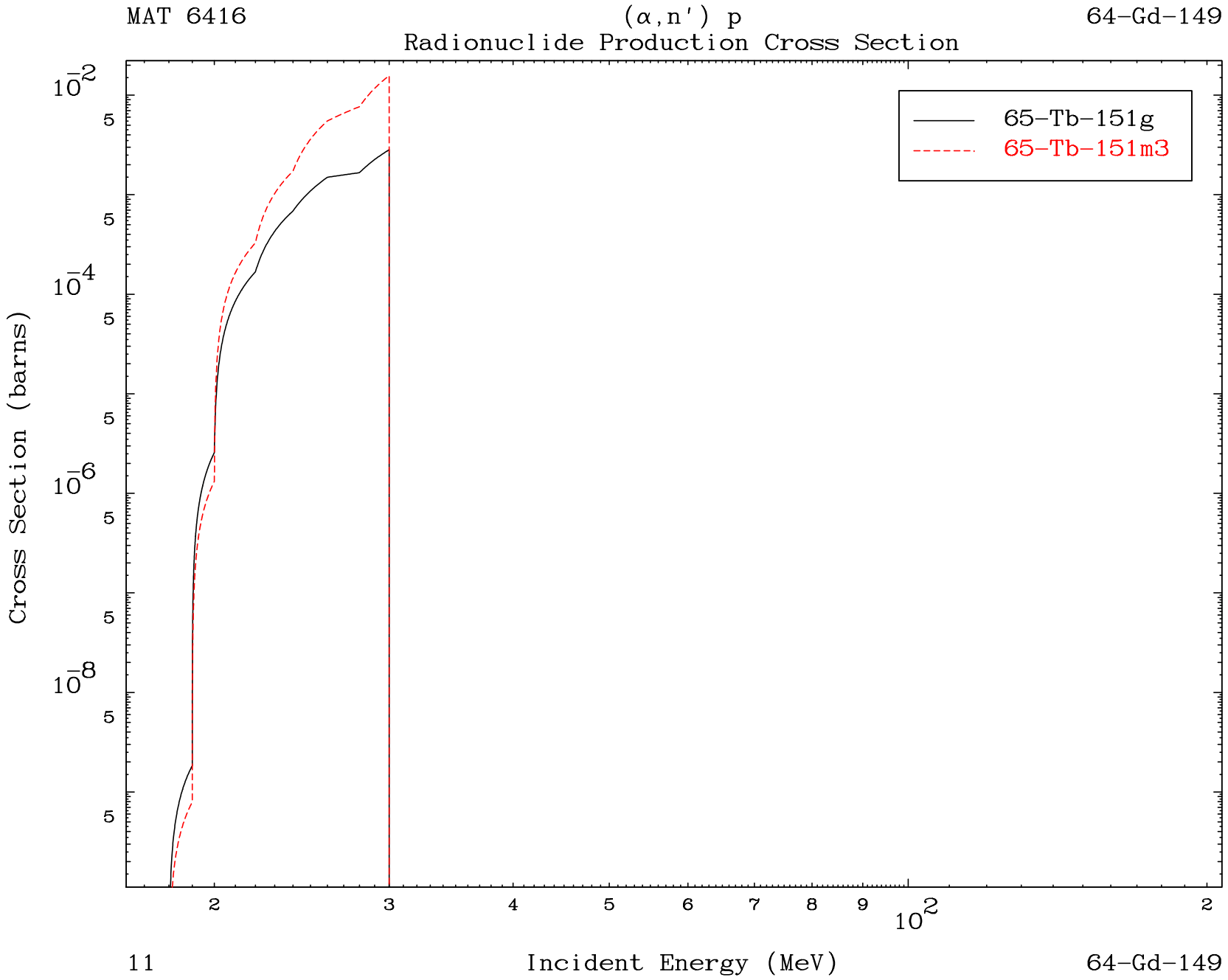

0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

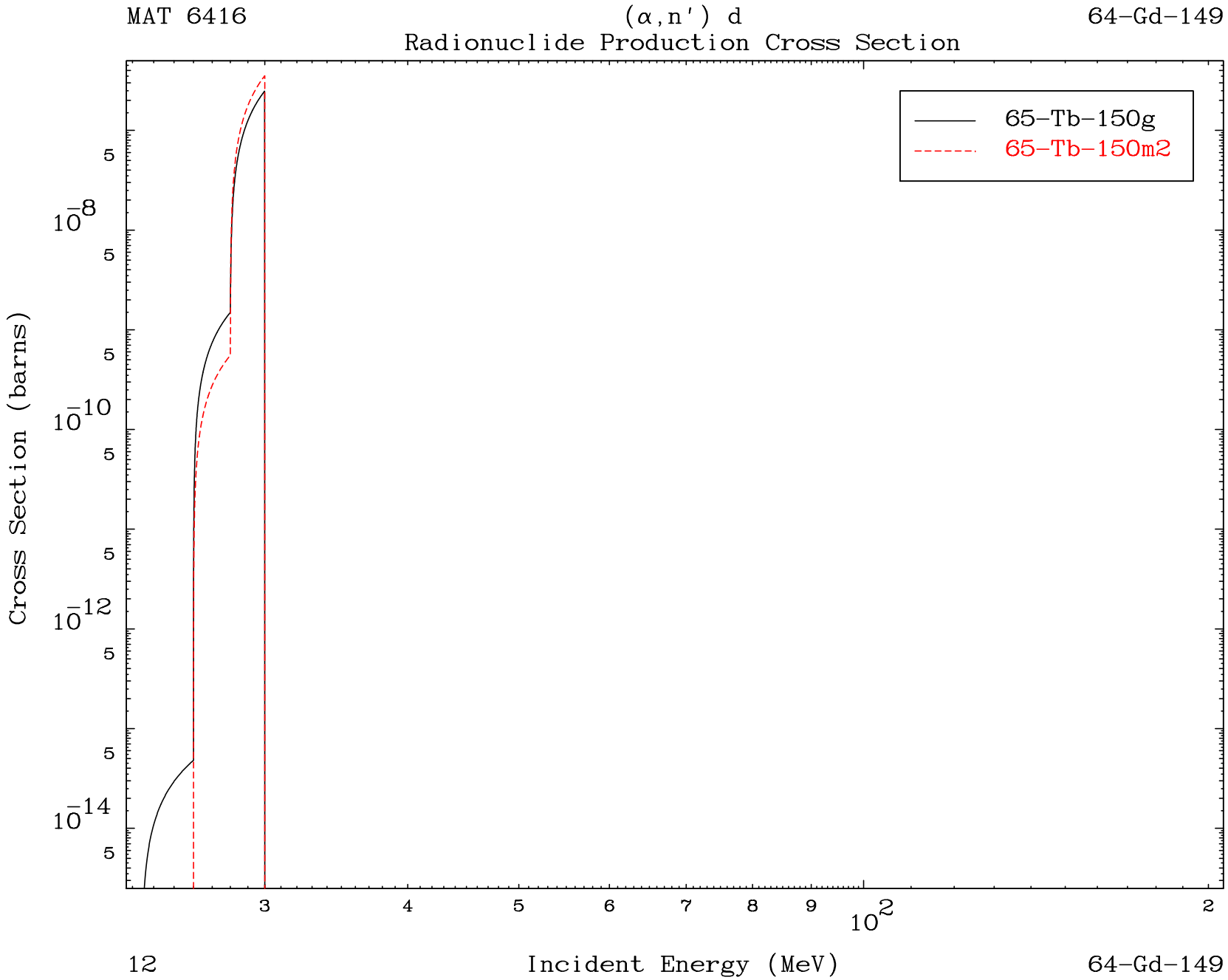
0 Kelvin Cross Sections

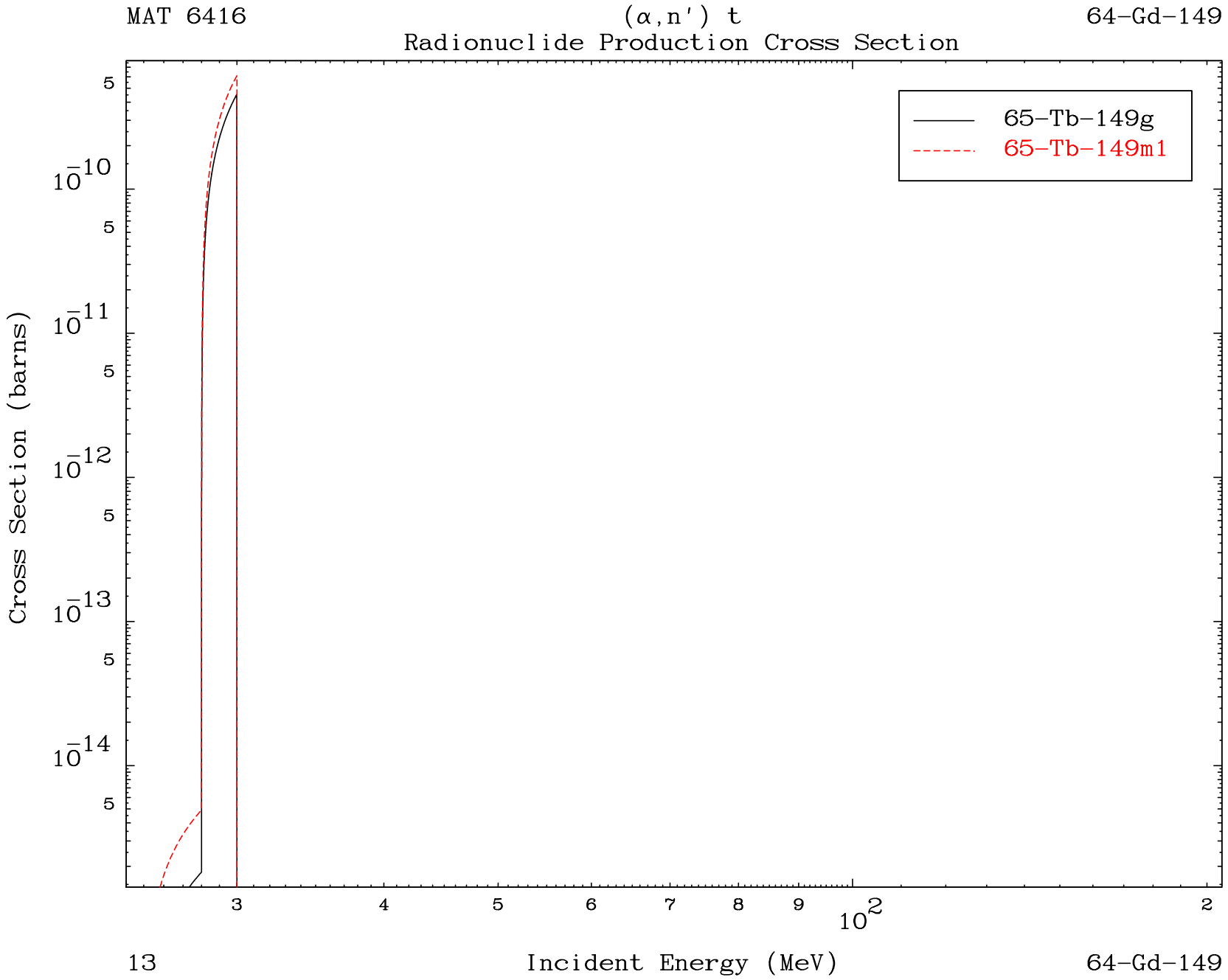


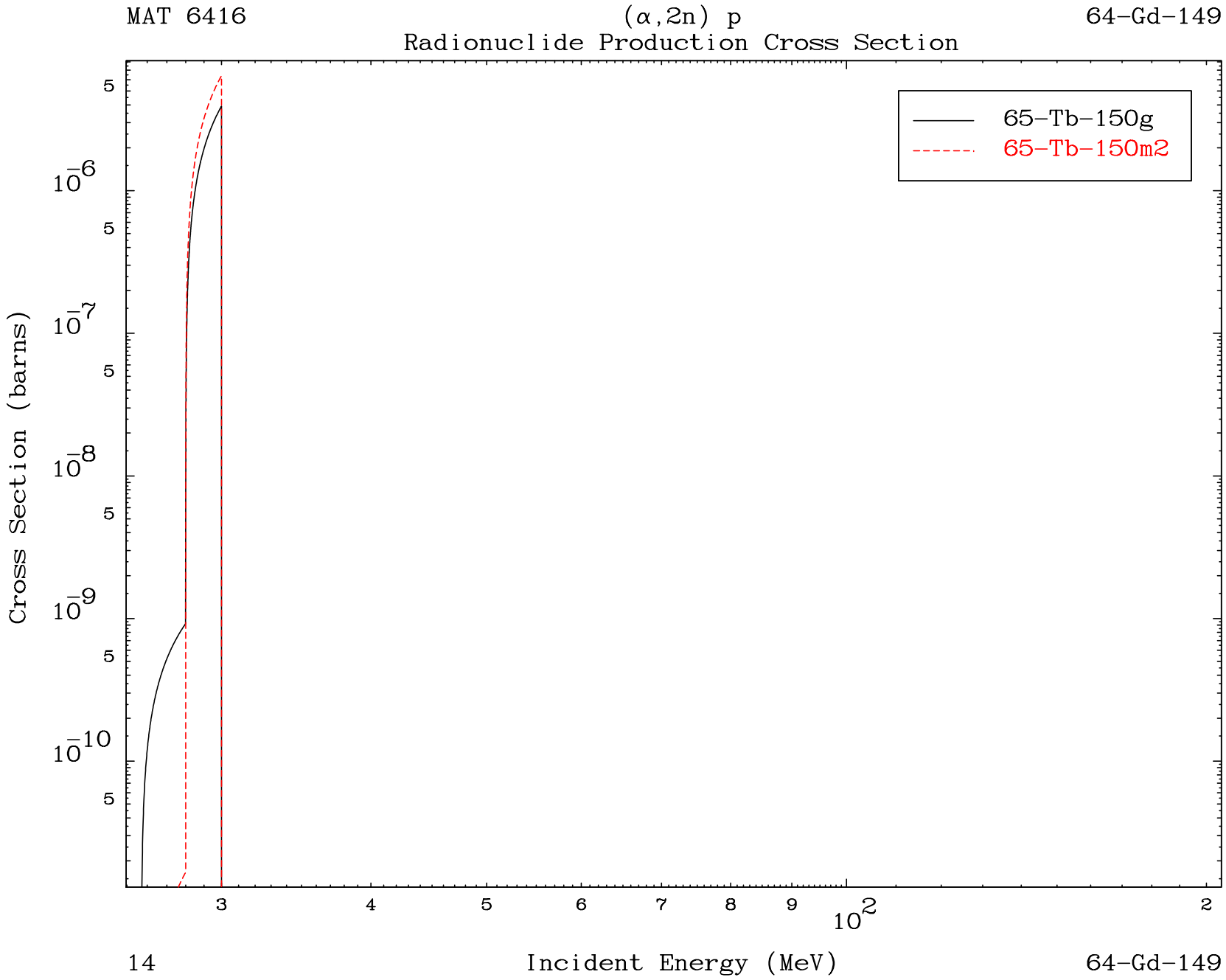

MAT 6416
(α,He3) Levels
64-Gd-149
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
9
64-Gd-149

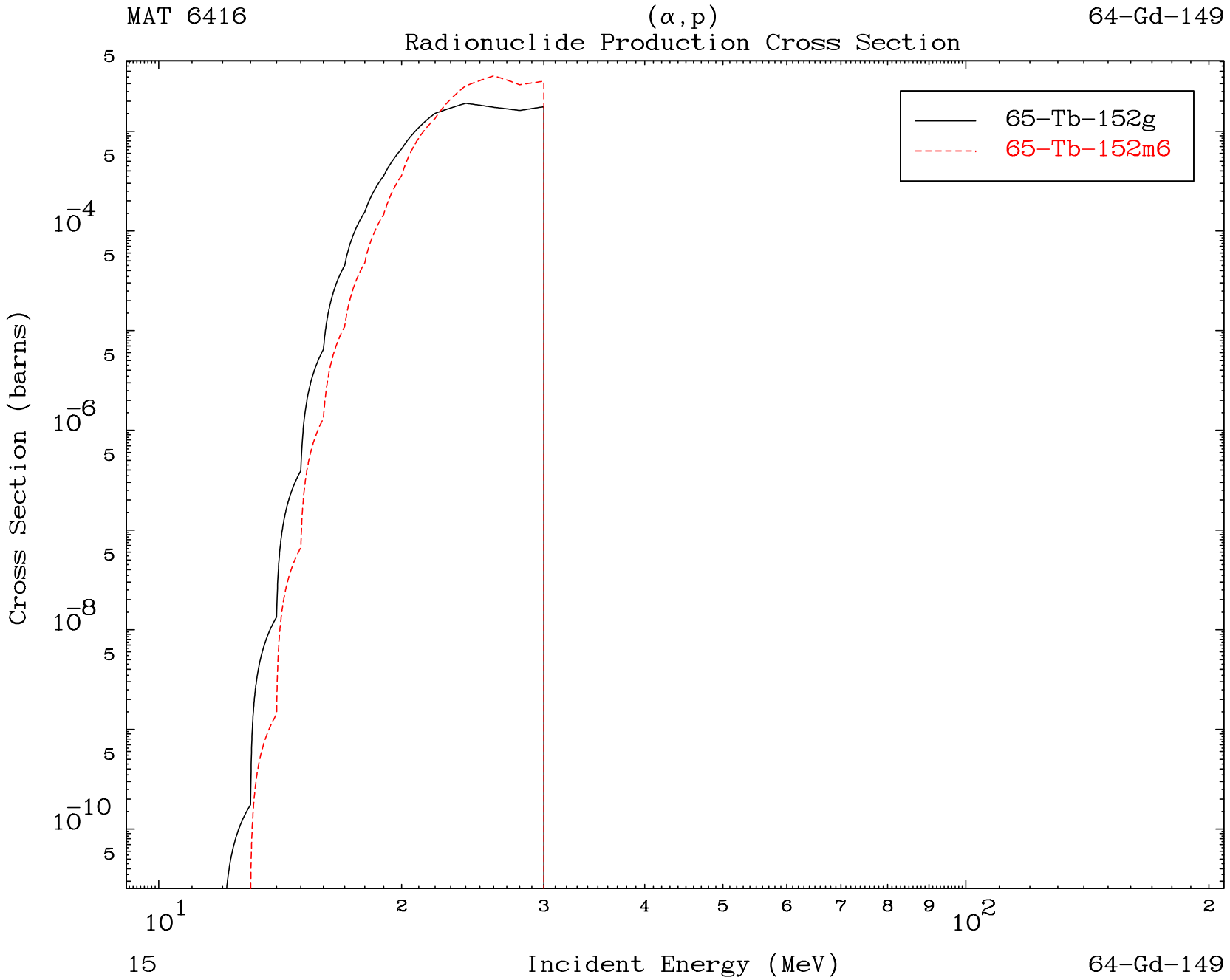

MAT 6416
(α,α) Levels
64-Gd-149
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
Incident Energy (MeV)
64-Gd-149

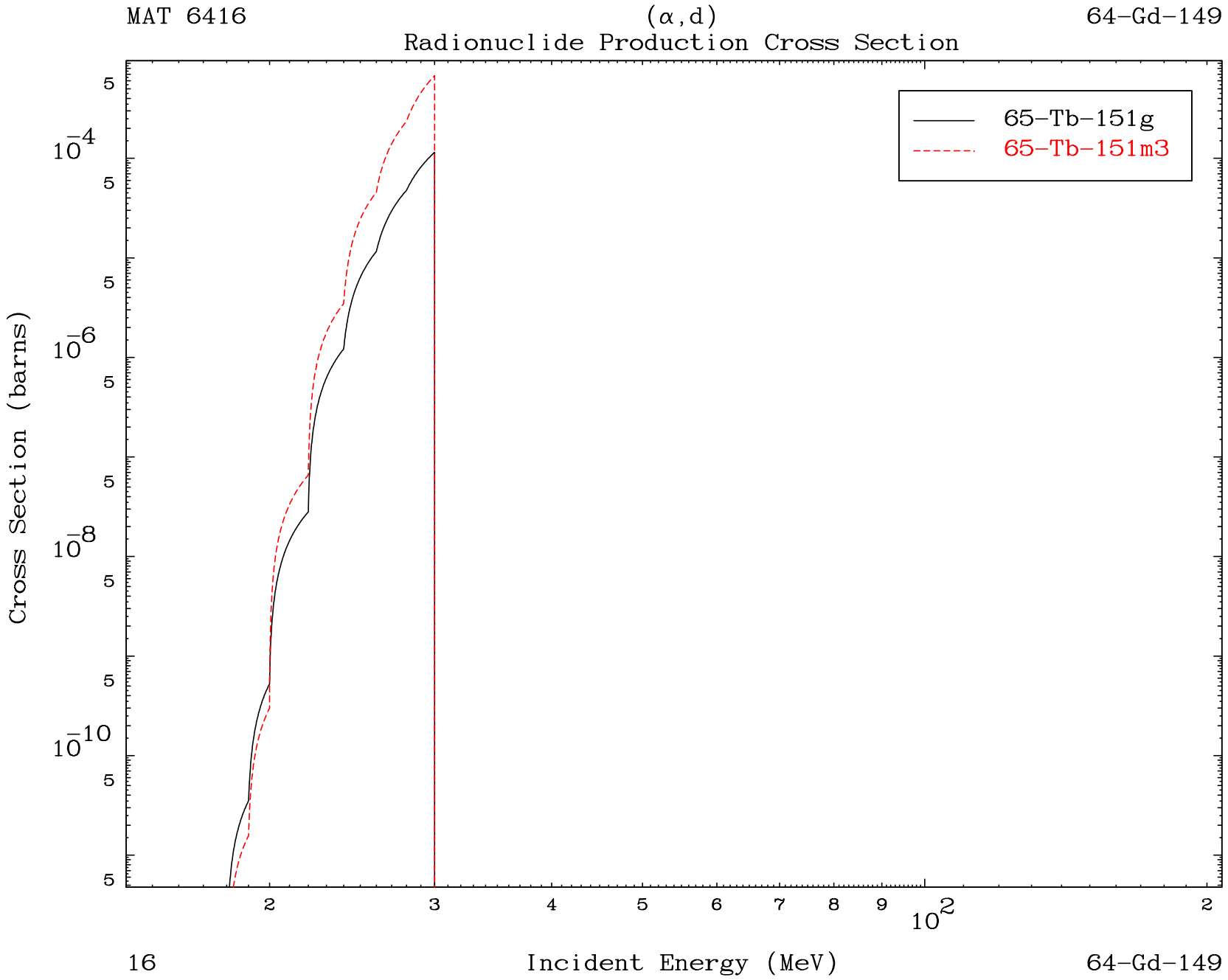

MAT 6416
(α,n') p
64-Gd-149
Radionuclide Production Cross Section
65-Tb-151g
65-Tb-151m3
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
64-Gd-149

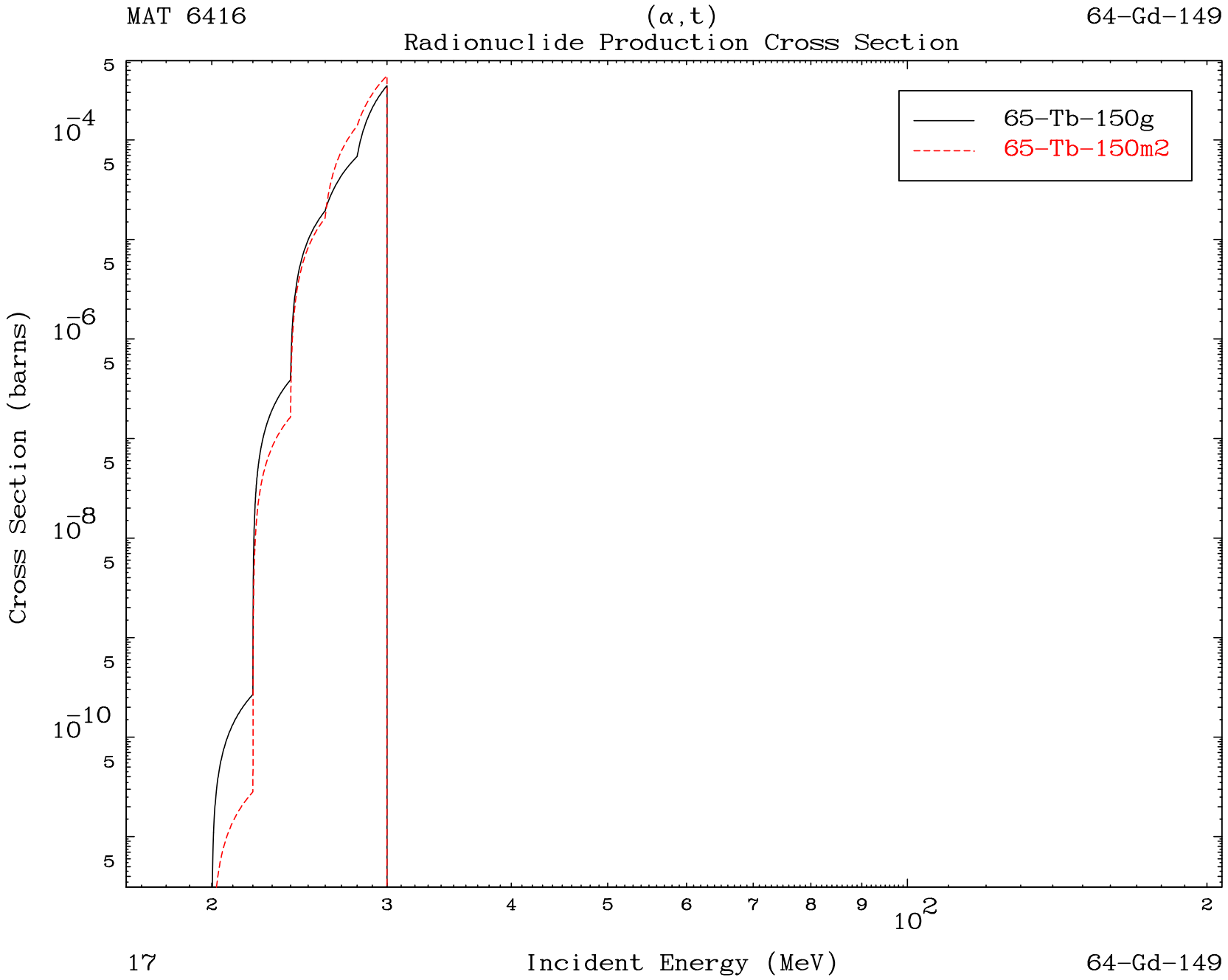

MAT 6416
(α,n') d
64-Gd-149
Radionuclide Production Cross Section
65-Tb-150g
65-Tb-150m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
64-Gd-149


MAT 6416
(α,n') t
64-Gd-149
Radionuclide Production Cross Section
65-Tb-149g
65-Tb-149m1
Cross Section (barns)
10^-10
10^-11
10^-12
10^-13
10^-14
5
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
64-Gd-149


MAT 6416
(α,2n) p
64-Gd-149
Radionuclide Production Cross Section
65-Tb-150g
65-Tb-150m2
Cross Section (barns)
10-6
10-7
10-8
10-9
10-10
5
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
64-Gd-149


MAT 6416
(α,p)
64-Gd-149
Radionuclide Production Cross Section
65-Tb-152g
65-Tb-152m6
Cross Section (barns)
10-4
10-6
10-8
10-10
101
102
Incident Energy (MeV)
15
64-Gd-149


MAT 6416
(α,d)
64-Gd-149
Radionuclide Production Cross Section
65-Tb-151g
65-Tb-151m3
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
16
64-Gd-149


MAT 6416
(α,t)
64-Gd-149
Radionuclide Production Cross Section
65-Tb-150g
65-Tb-150m2
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
17
64-Gd-149