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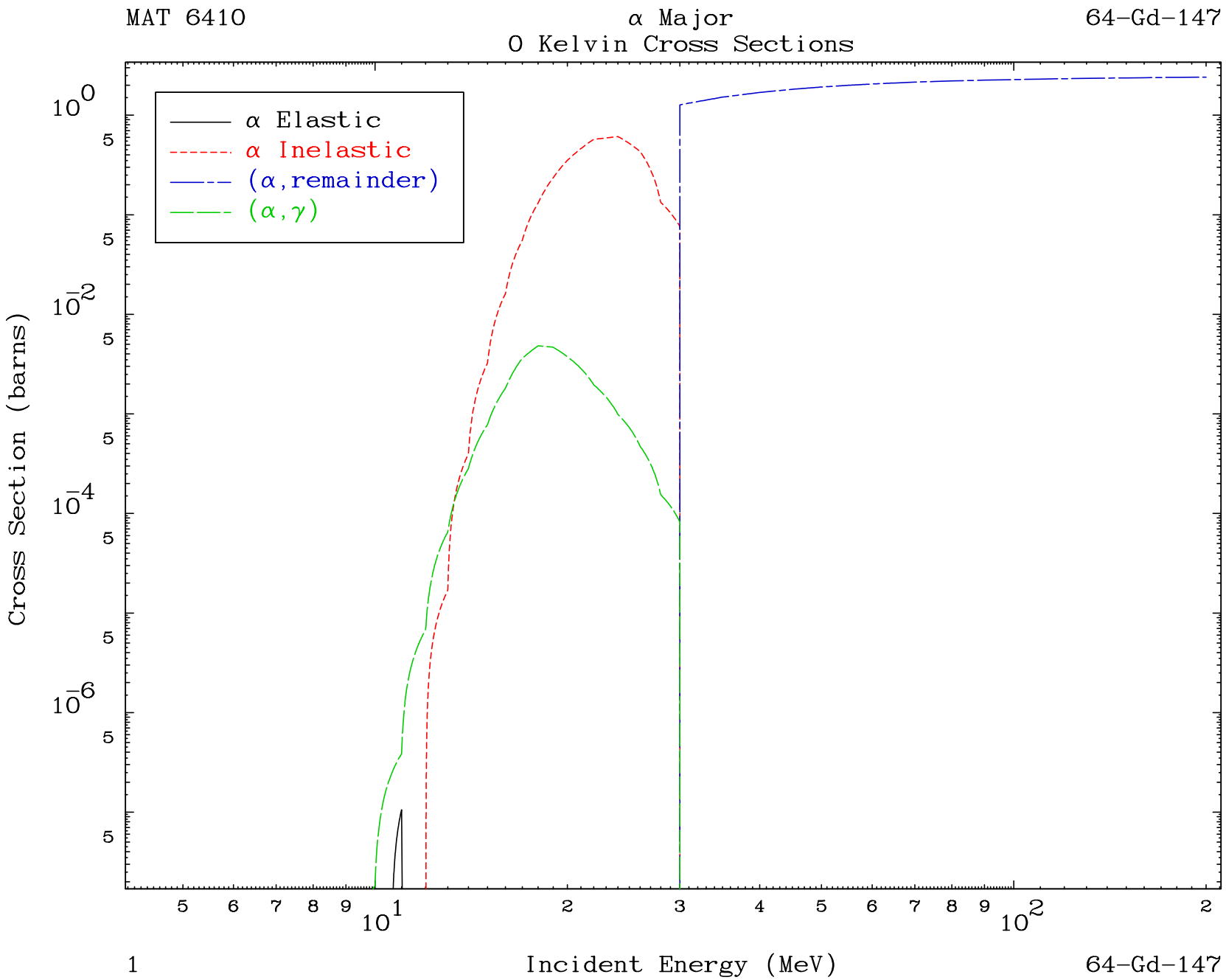
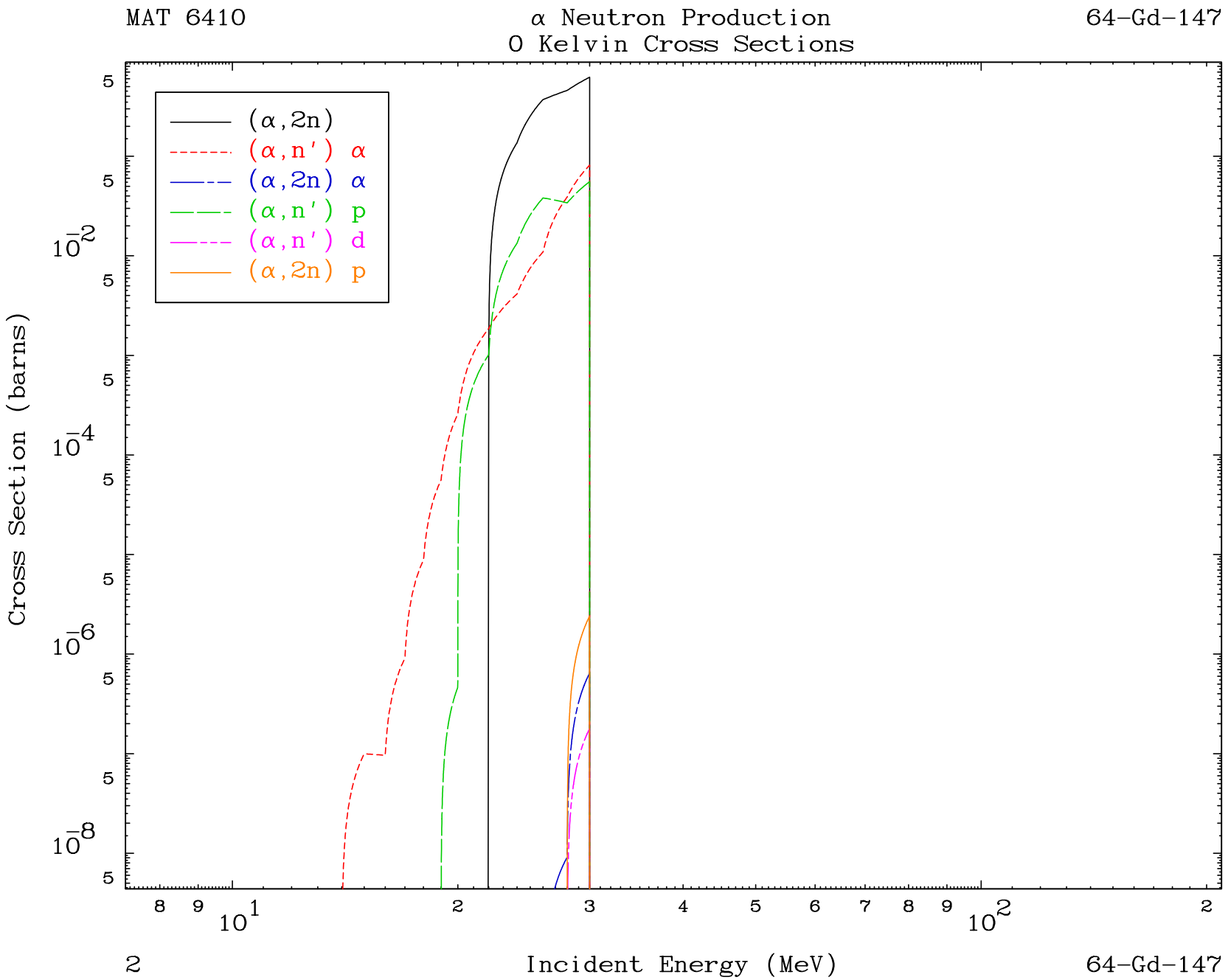
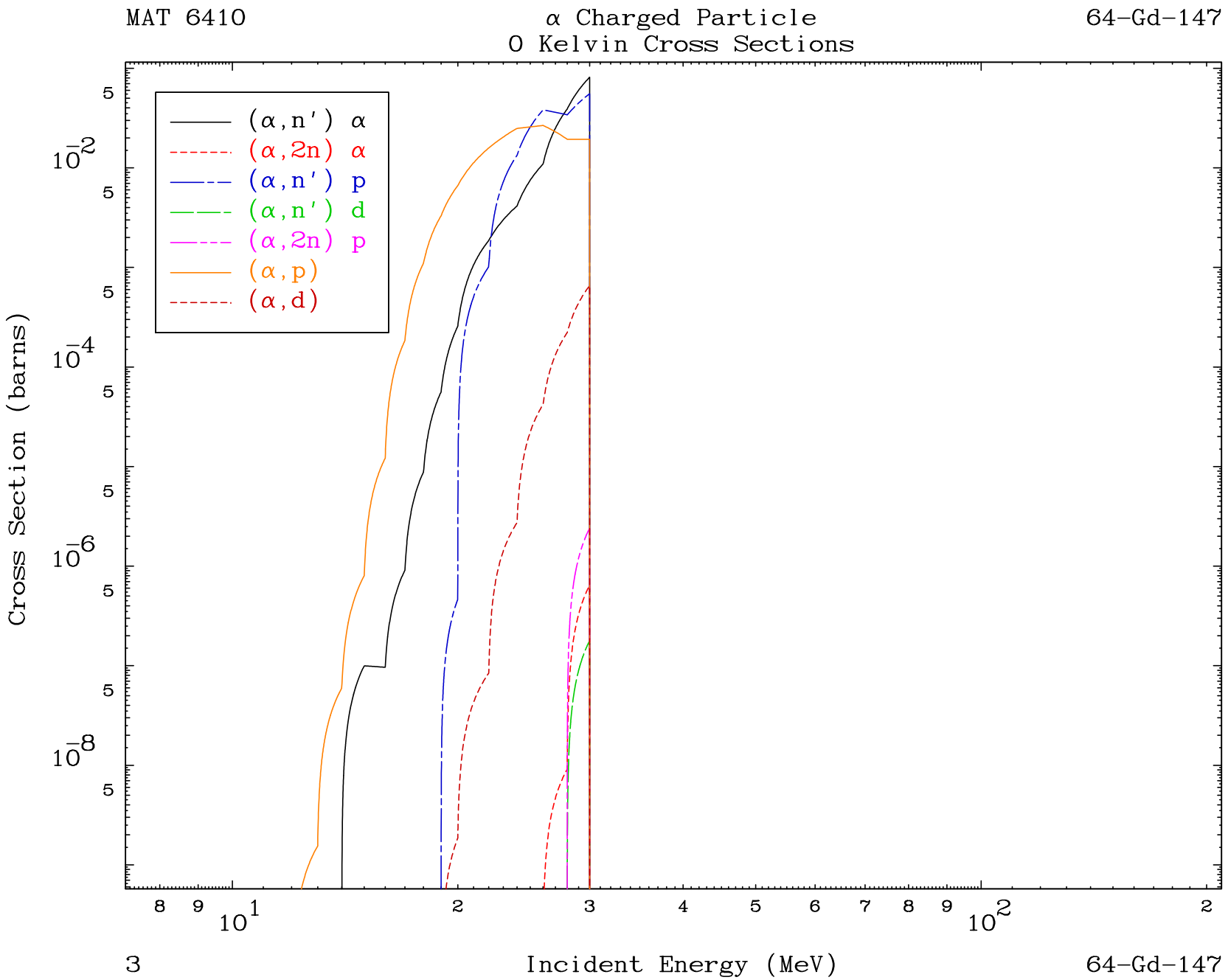
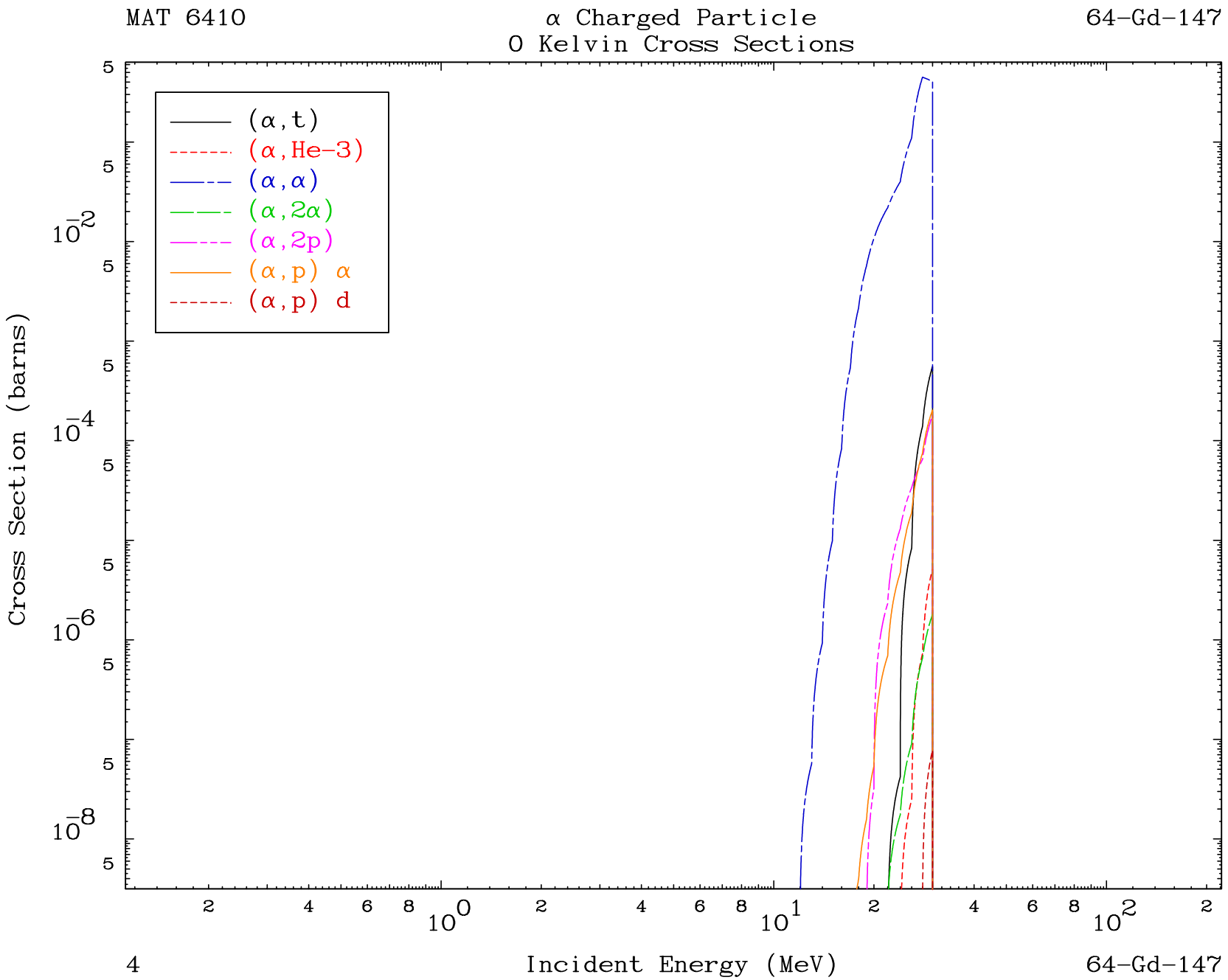
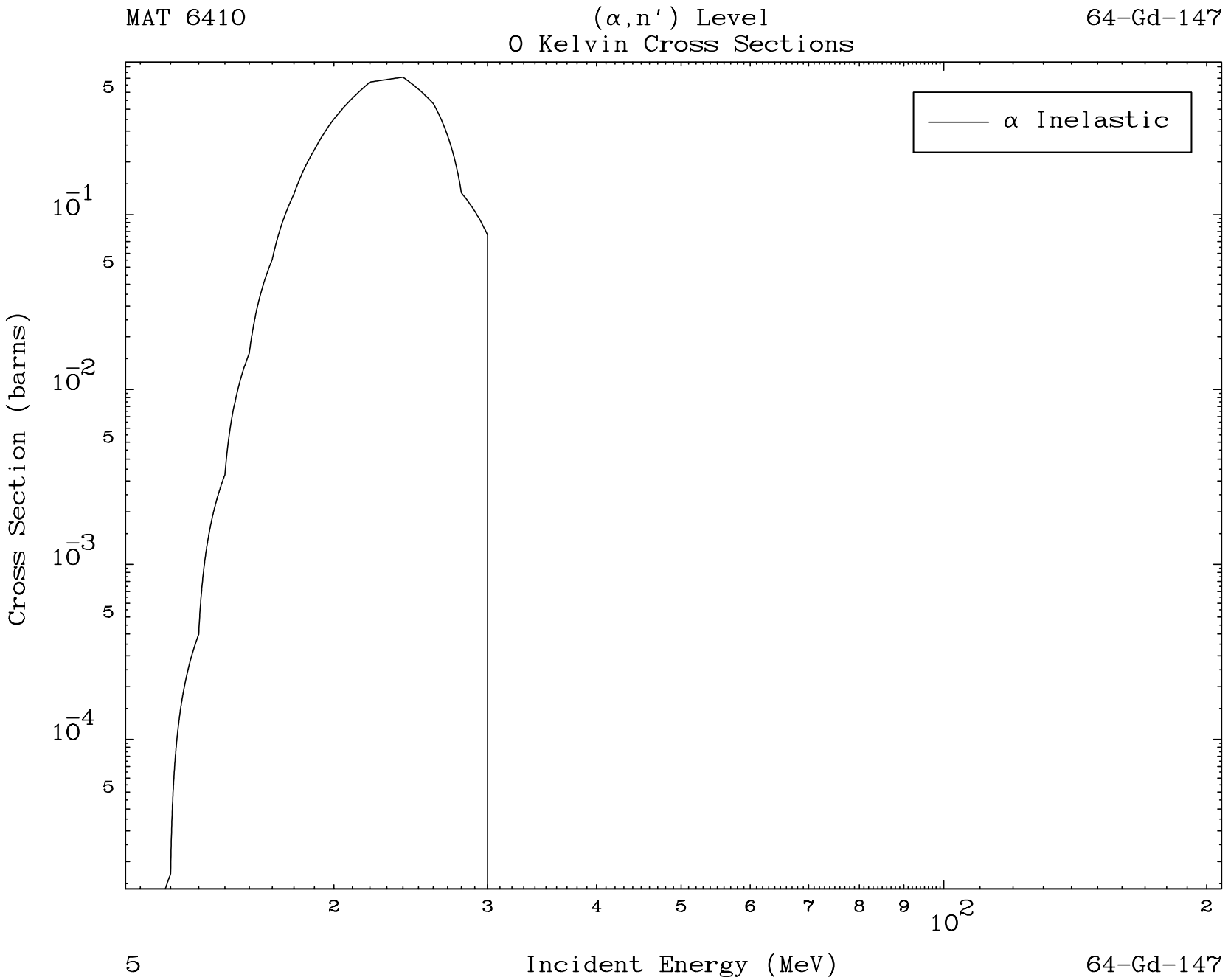
Press Mouse Button to Start

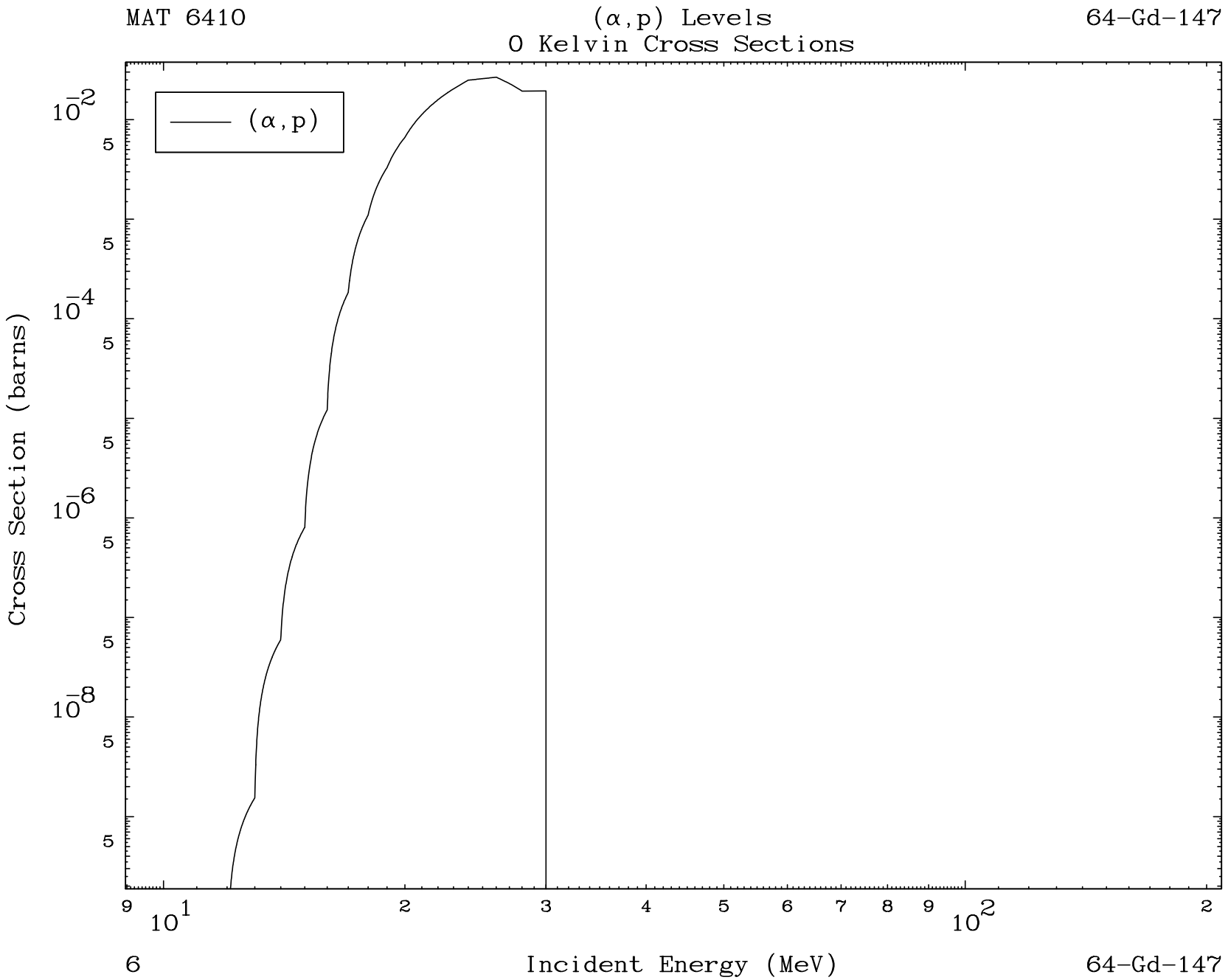

MAT 6410
α Major
64-Gd-147
0 Kelvin Cross Sections
α Elastic
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
64-Gd-147
1

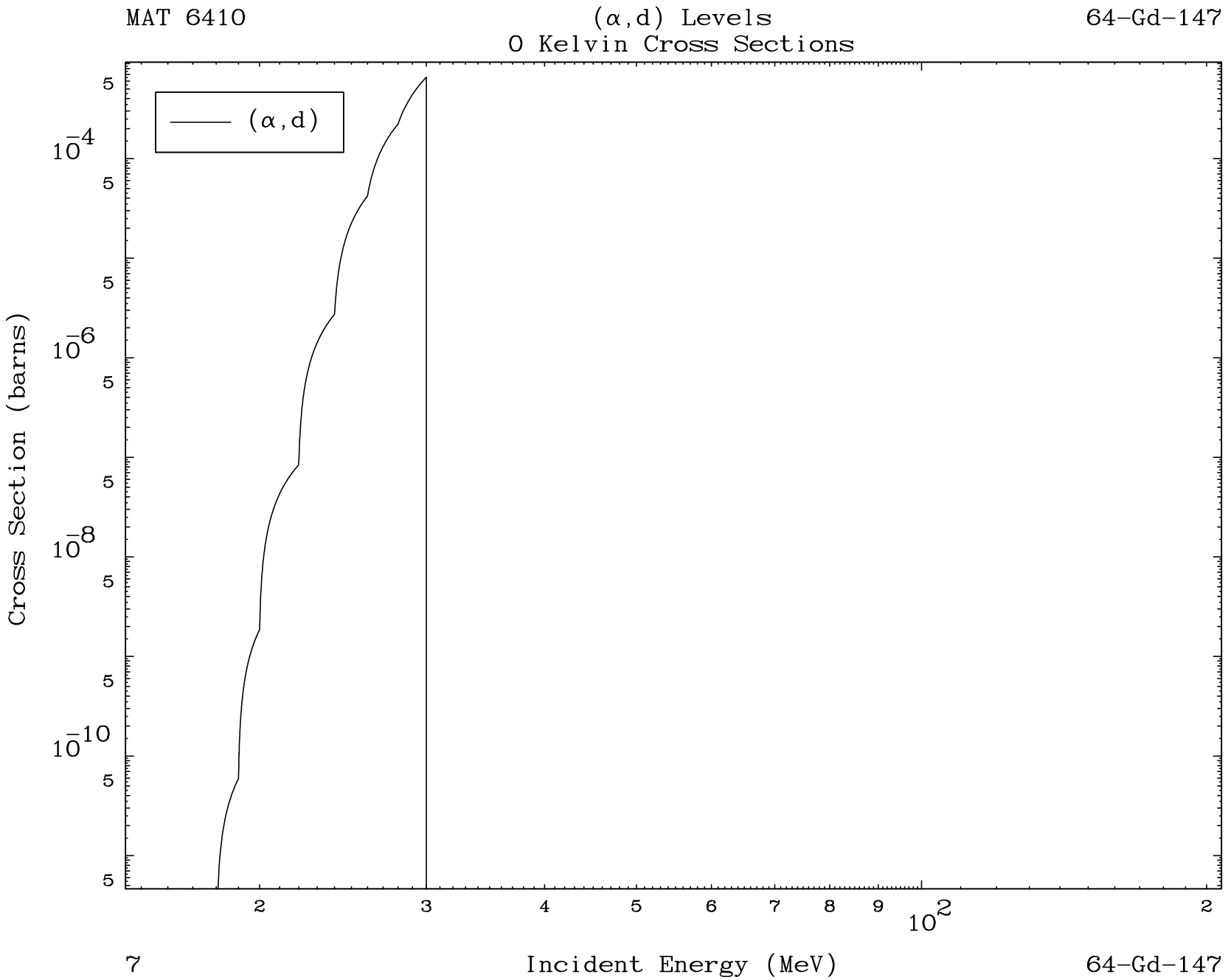

MAT 6410
α Neutron Production
0 Kelvin Cross Sections
64-Gd-147
(α,2n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
64-Gd-147
2

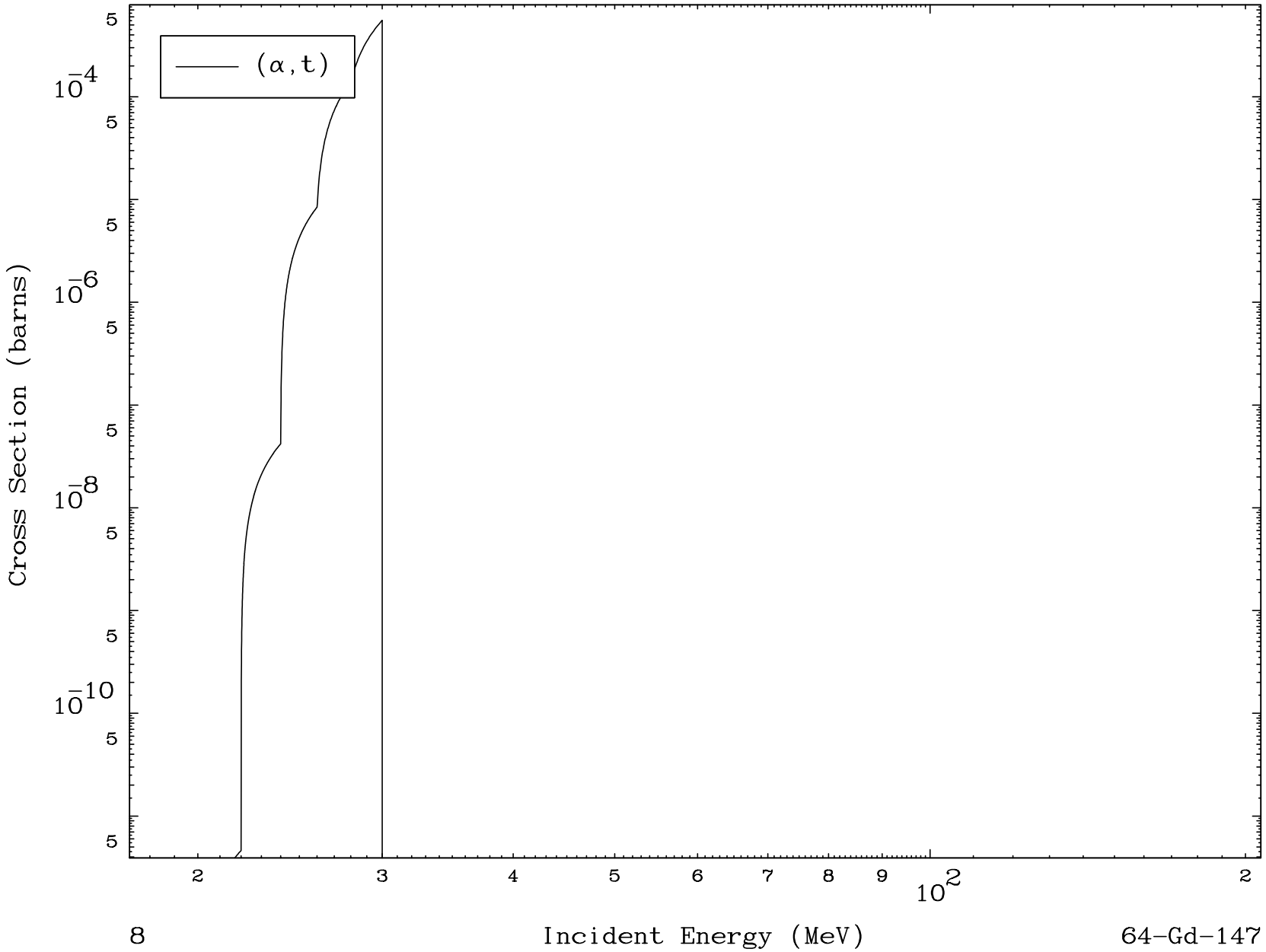

MAT 6410
α Charged Particle
0 Kelvin Cross Sections
64-Gd-147
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,2n) p
(α,p)
(α,d)
Cross Section (barns)
Incident Energy (MeV)
3
64-Gd-147


MAT 6410
α Charged Particle
0 Kelvin Cross Sections
64-Gd-147
(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-147

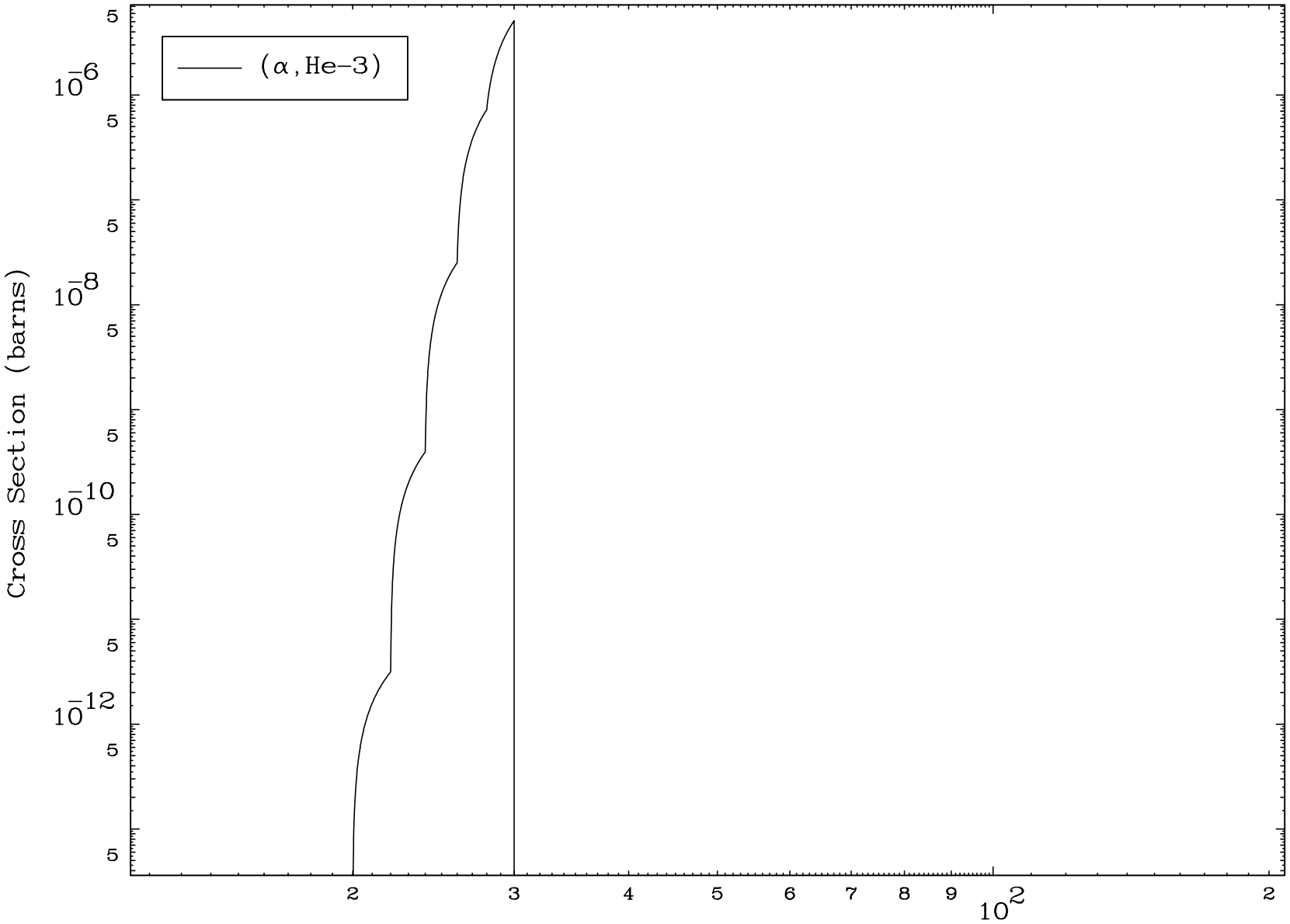

MAT 6410
(α,n') Level
64-Gd-147
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-1
10-2
10-3
10-4
5
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
64-Gd-147

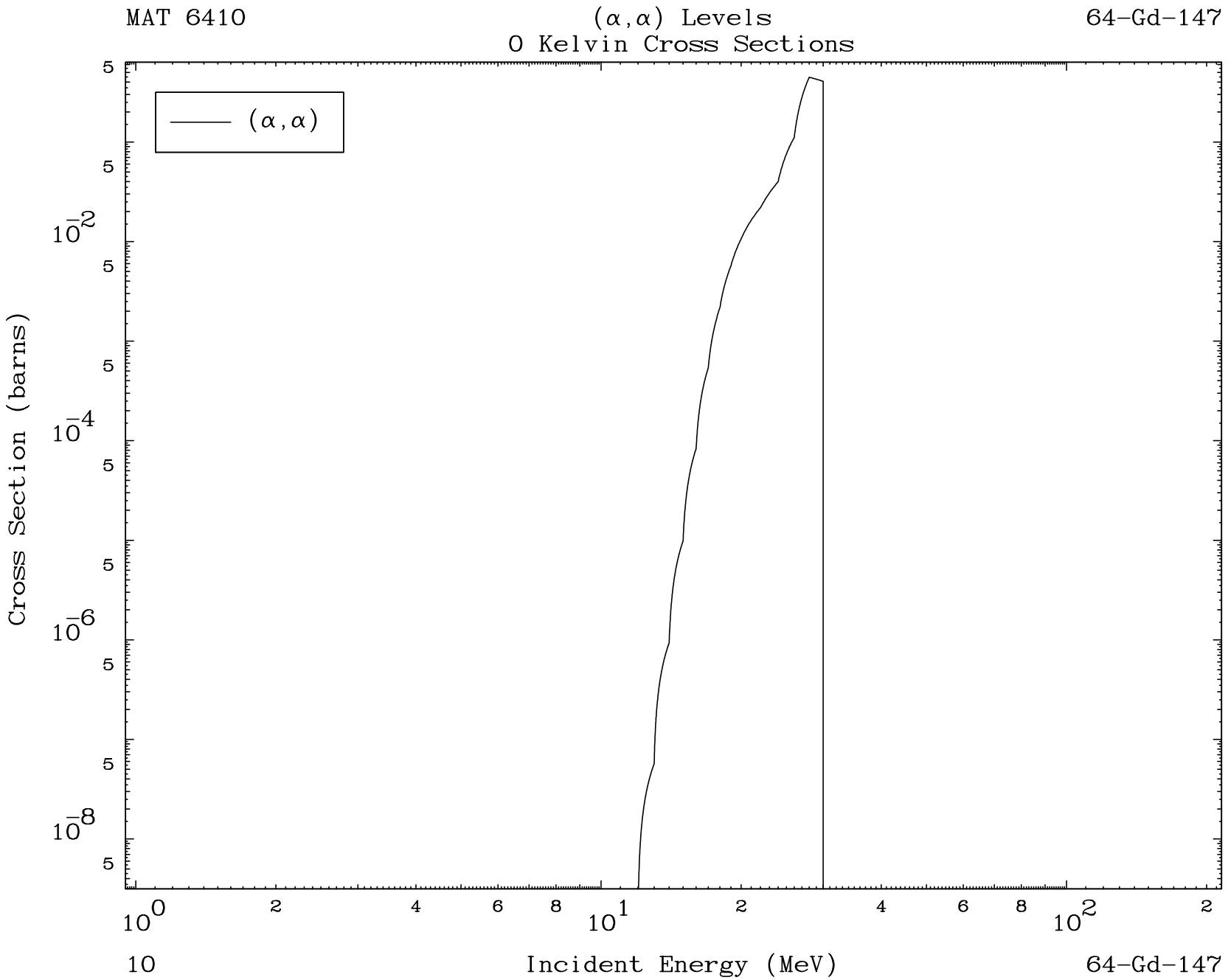

MAT 6410
(α,p) Levels
64-Gd-147
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
64-Gd-147
6

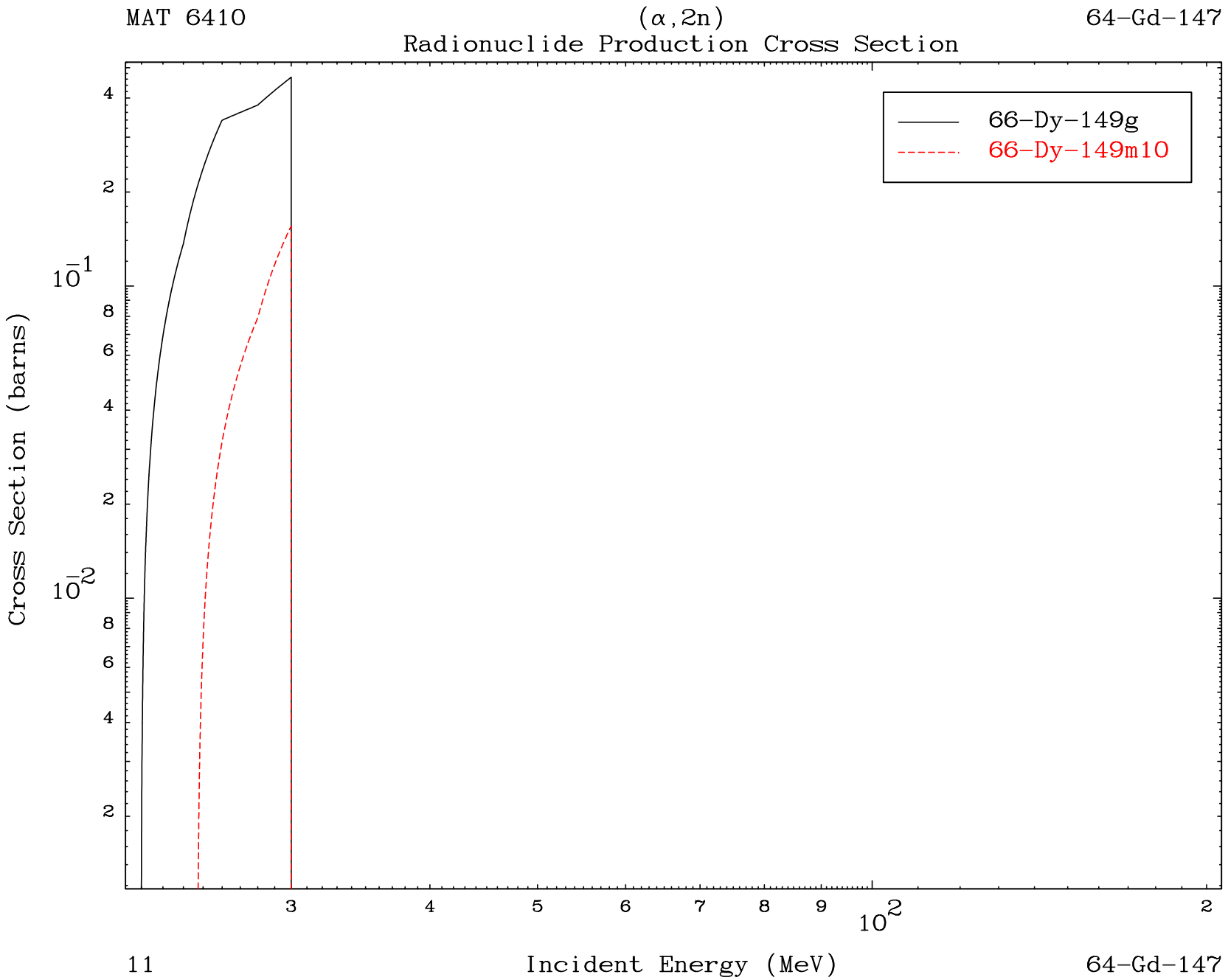

MAT 6410
(α,d) Levels
64-Gd-147
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
7
64-Gd-147

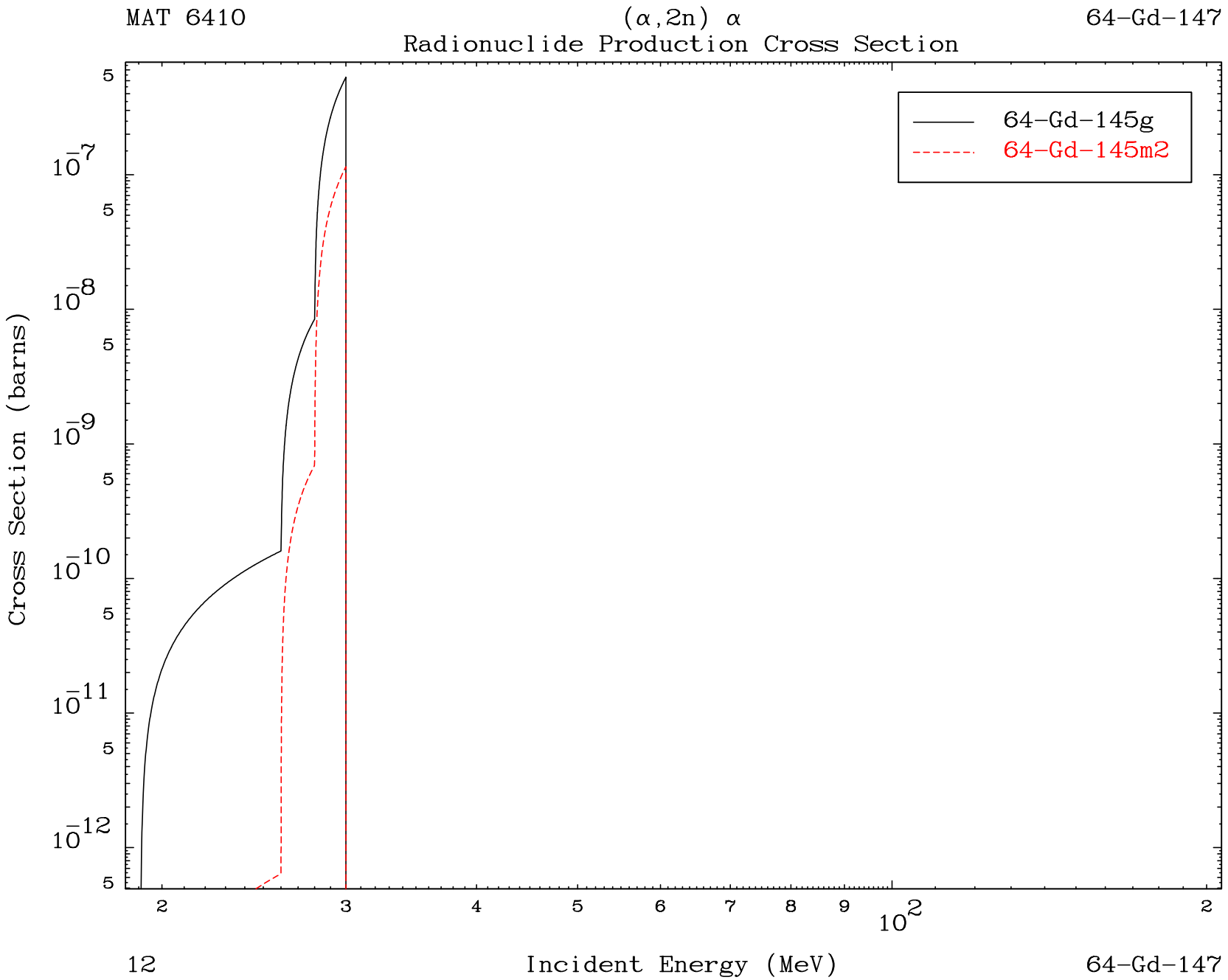

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

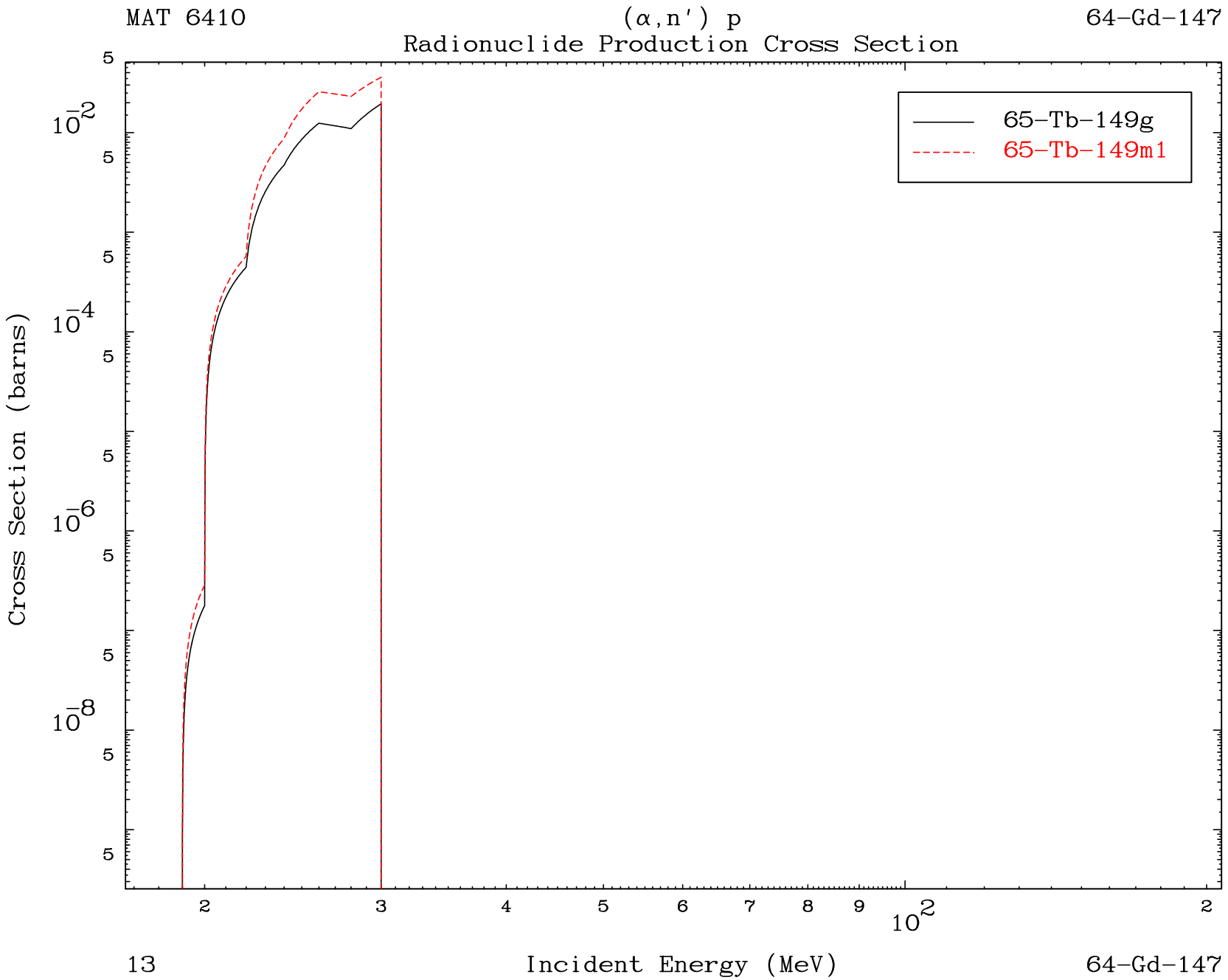
0 Kelvin Cross Sections

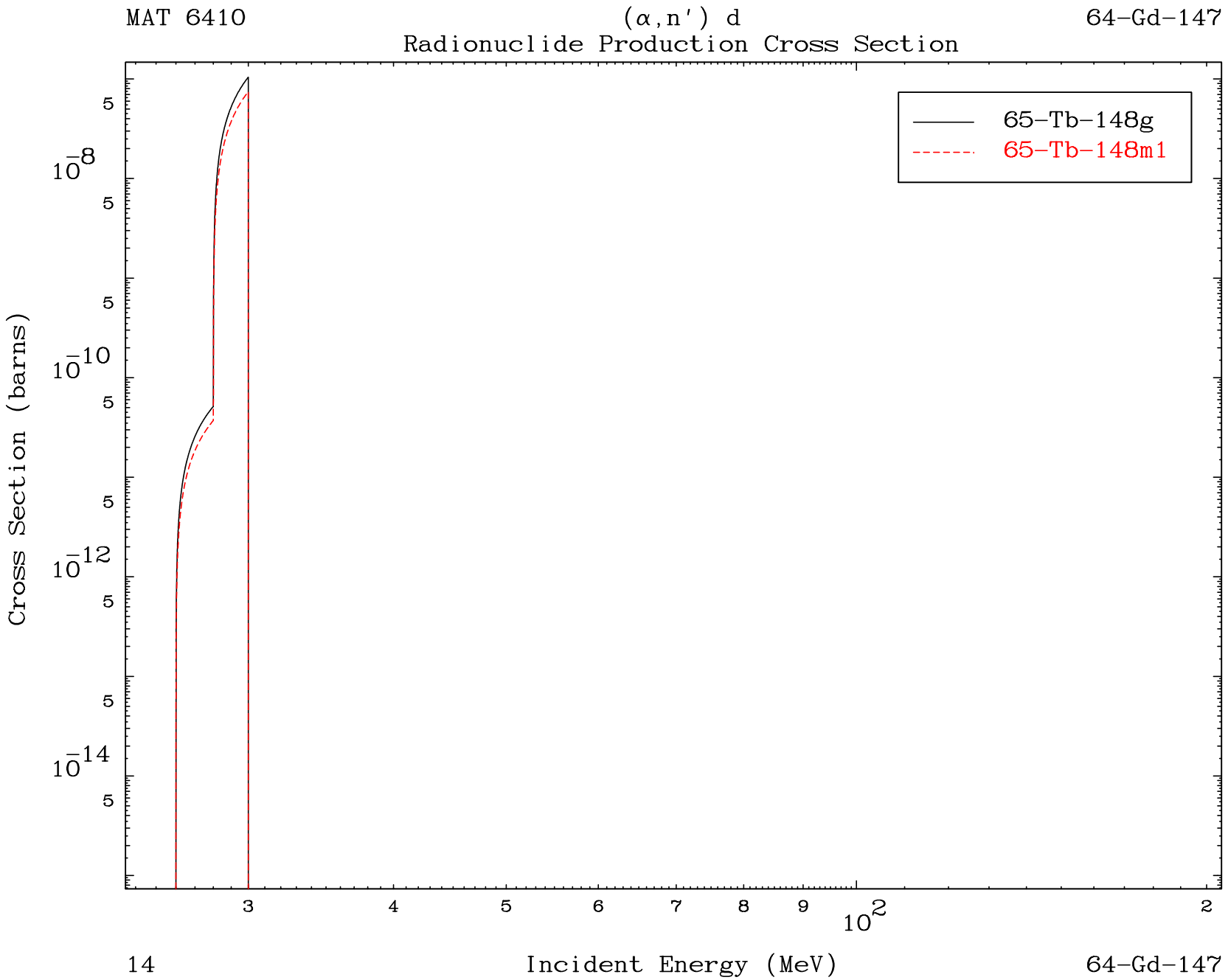


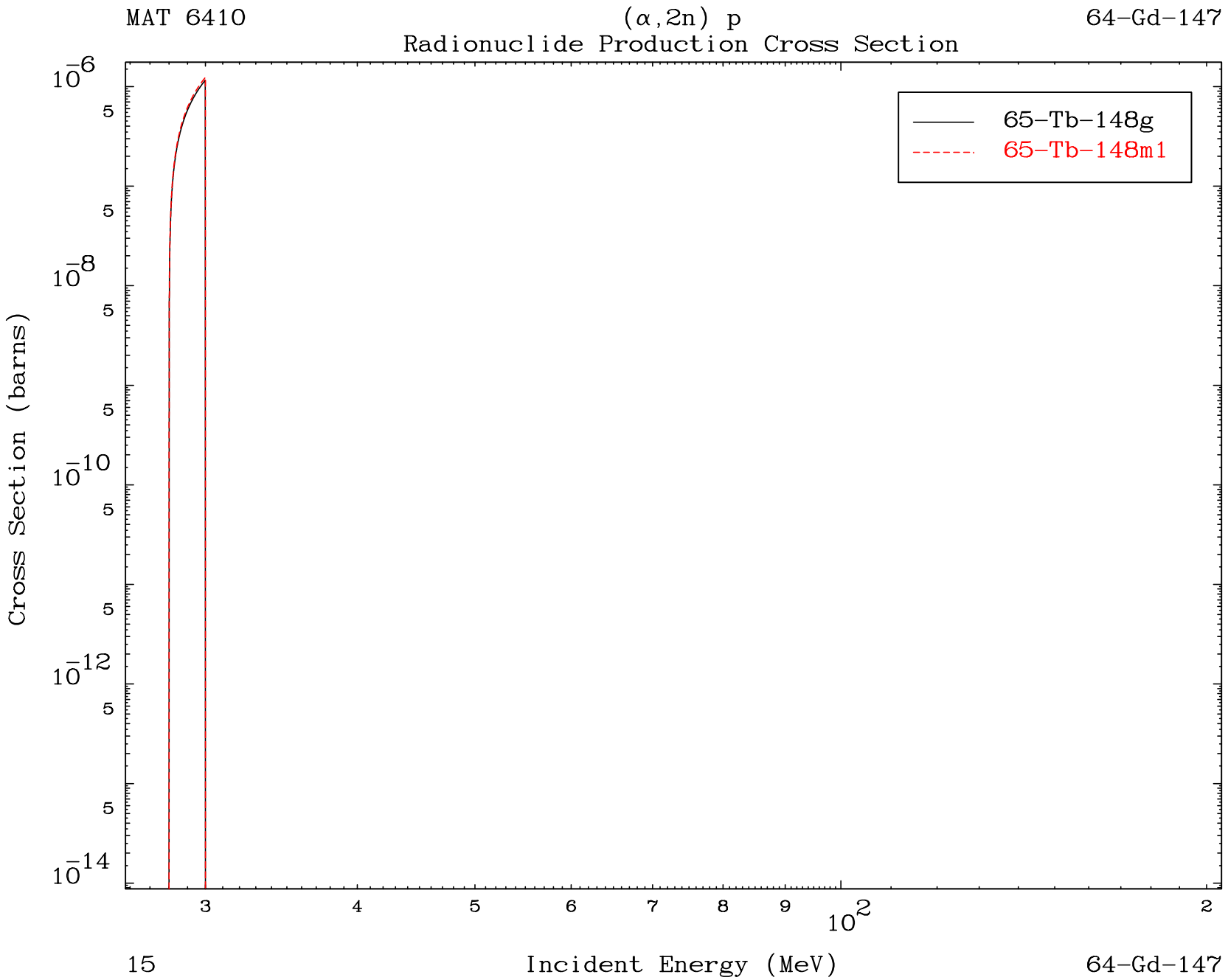

MAT 6410
(α,α) Levels
64-Gd-147
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
Incident Energy (MeV)
64-Gd-147

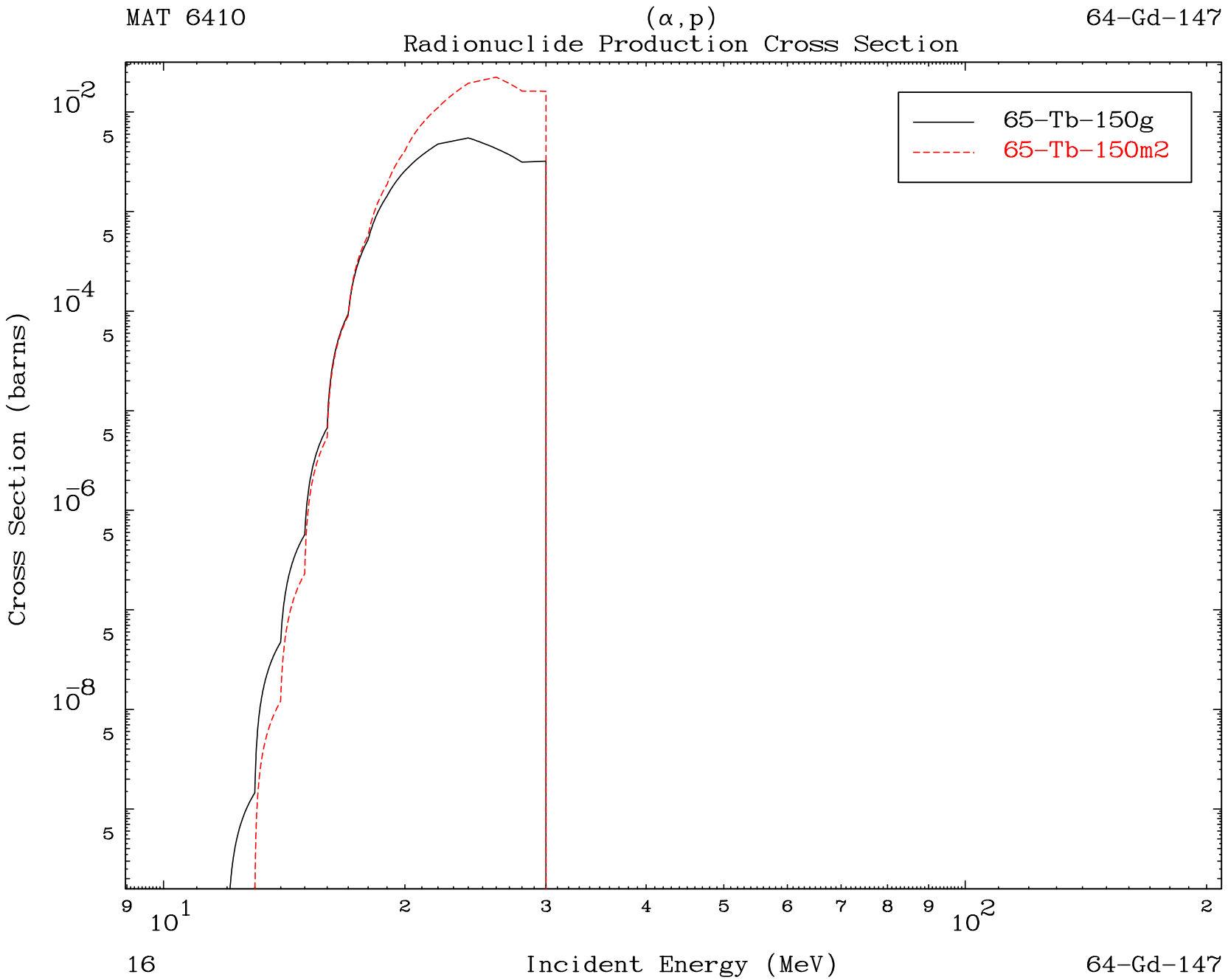

MAT 6410
(α,2n)
64-Gd-147
Radionuclide Production Cross Section
66-Dy-149g
66-Dy-149m10
Cross Section (barns)
10-1
10-2
4
2
8
6
4
2
8
6
4
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
64-Gd-147

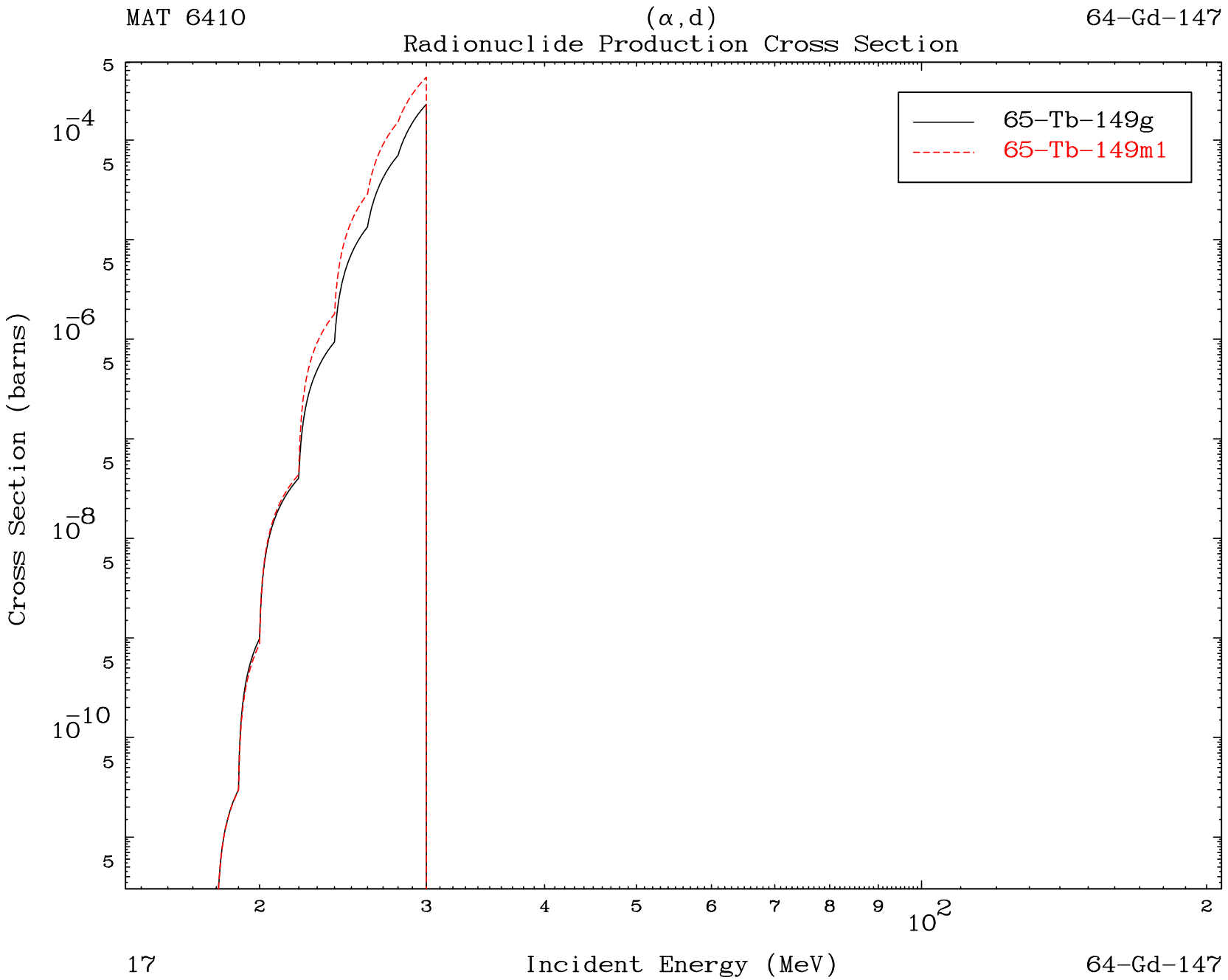

MAT 6410
(α,2n) α
64-Gd-147
Radionuclide Production Cross Section
64-Gd-145g
64-Gd-145m2
Cross Section (barns)
Incident Energy (MeV)
12
64-Gd-147

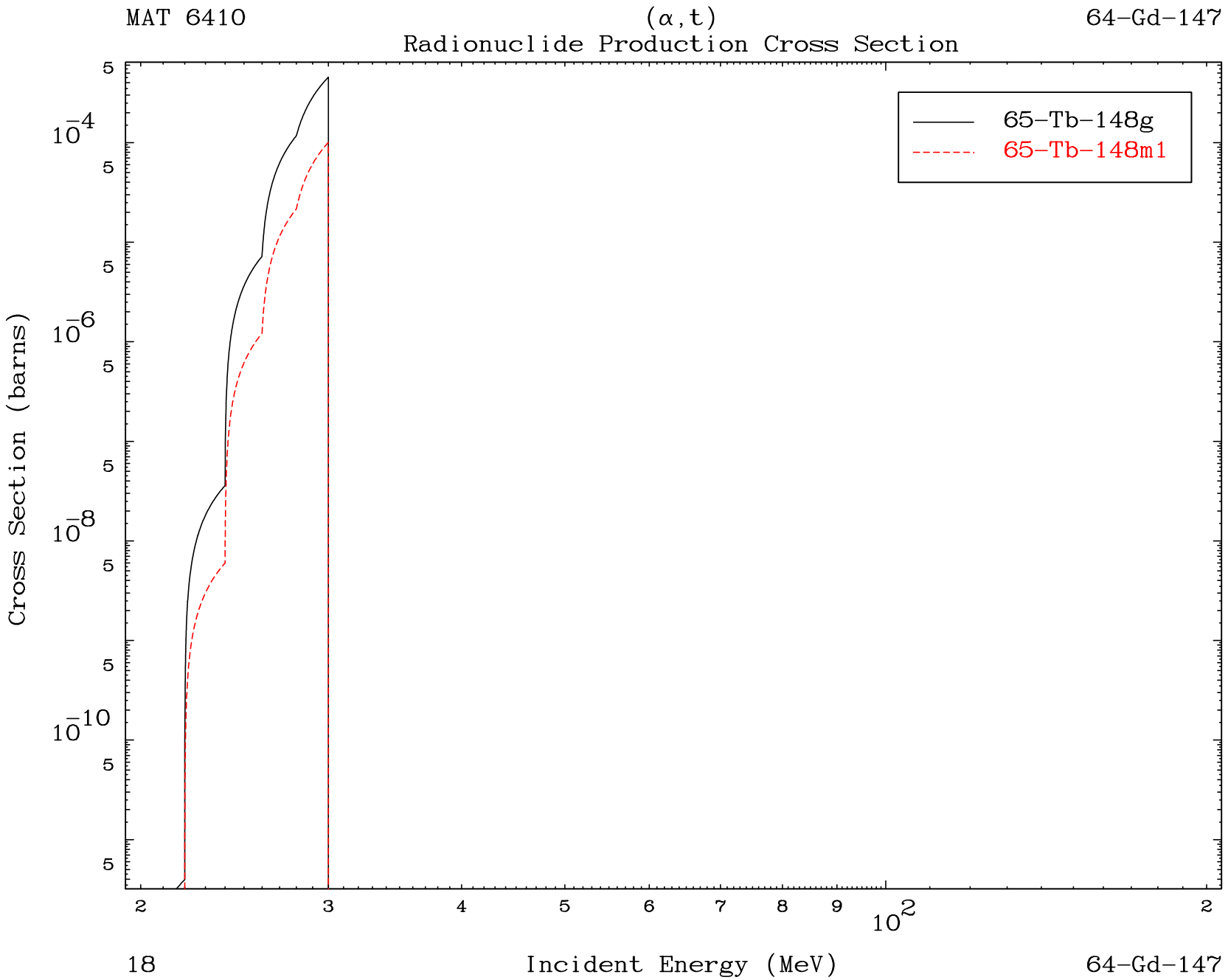

MAT 6410
(α,n') p
64-Gd-147
Radionuclide Production Cross Section
65-Tb-149g
65-Tb-149m1
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
64-Gd-147

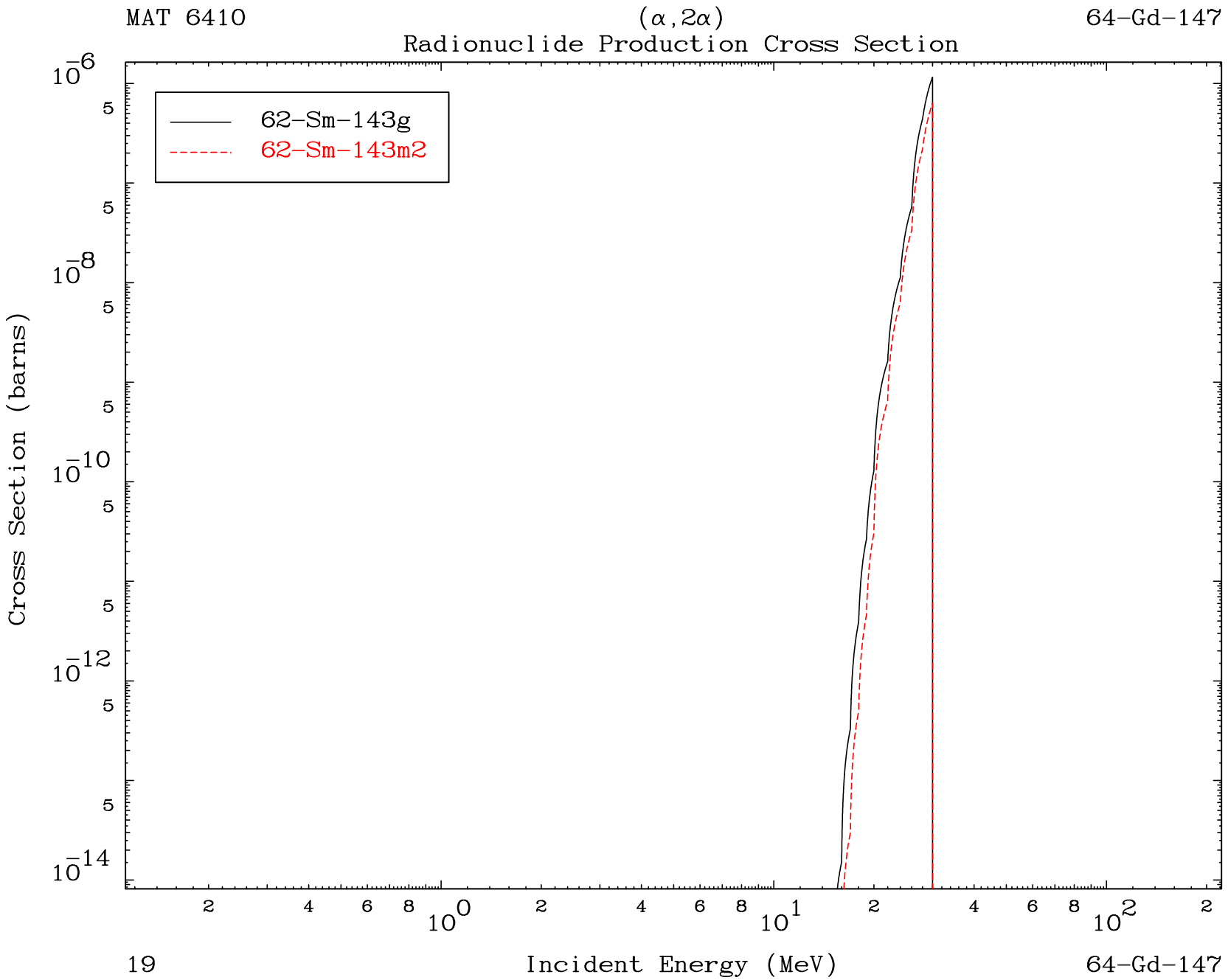

MAT 6410
(α,n') d
64-Gd-147
Radionuclide Production Cross Section
65-Tb-148g
65-Tb-148m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
64-Gd-147


MAT 6410
(α,2n) p
64-Gd-147
Radionuclide Production Cross Section
65-Tb-148g
65-Tb-148m1
Cross Section (barns)
10-6
10-8
10-10
10-12
10-14
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
15
64-Gd-147


MAT 6410
(α,p)
64-Gd-147
Radionuclide Production Cross Section
65-Tb-150g
65-Tb-150m2
Cross Section (barns)
Incident Energy (MeV)
64-Gd-147
16


MAT 6410
(α,d)
64-Gd-147
Radionuclide Production Cross Section
65-Tb-149g
65-Tb-149m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
17
64-Gd-147


MAT 6410
(α,t)
64-Gd-147
Radionuclide Production Cross Section
65-Tb-148g
65-Tb-148m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
64-Gd-147


MAT 6410
(α,2α)
64-Gd-147
Radionuclide Production Cross Section
62-Sm-143g
62-Sm-143m2
Cross Section (barns)
Incident Energy (MeV)
19
64-Gd-147