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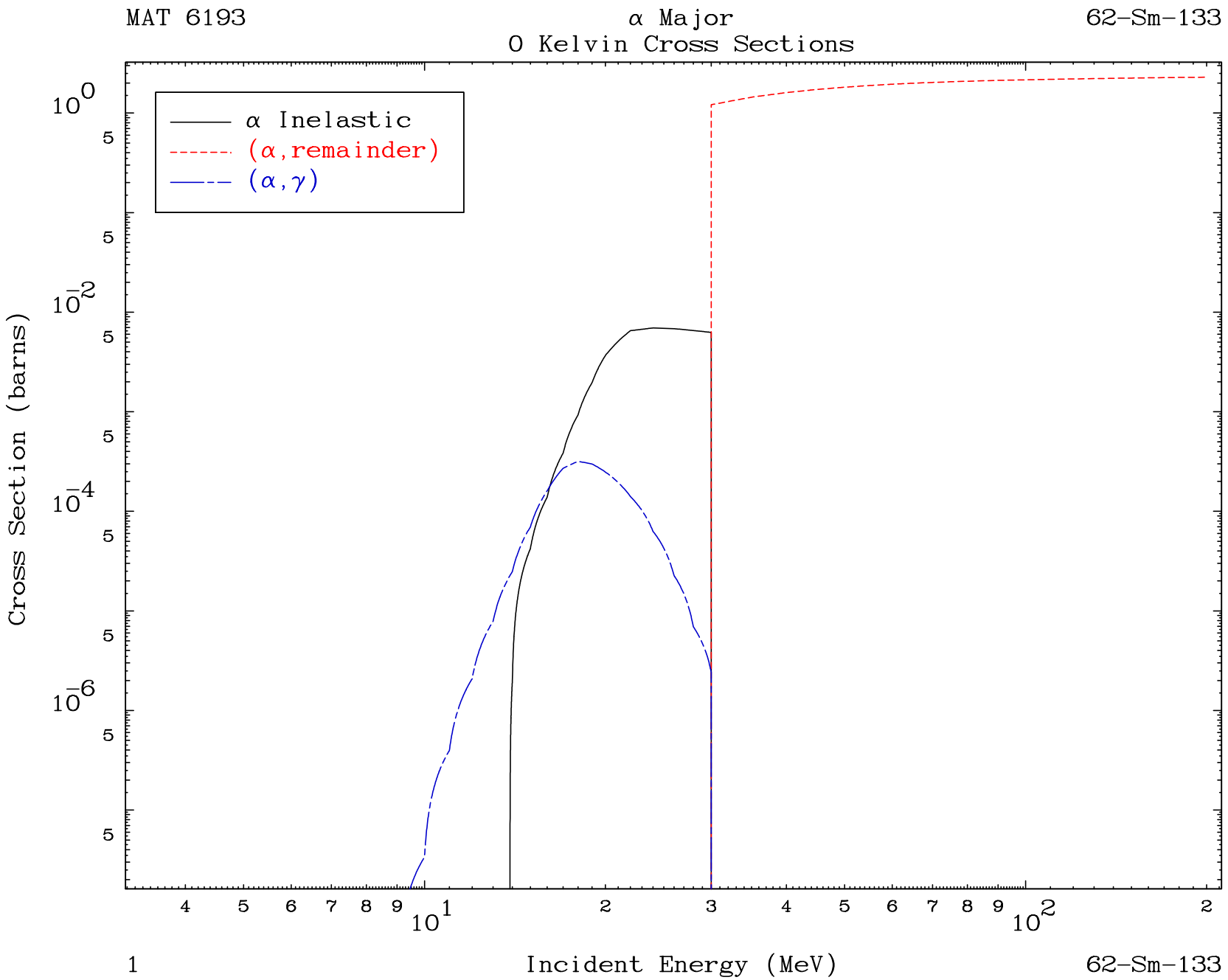
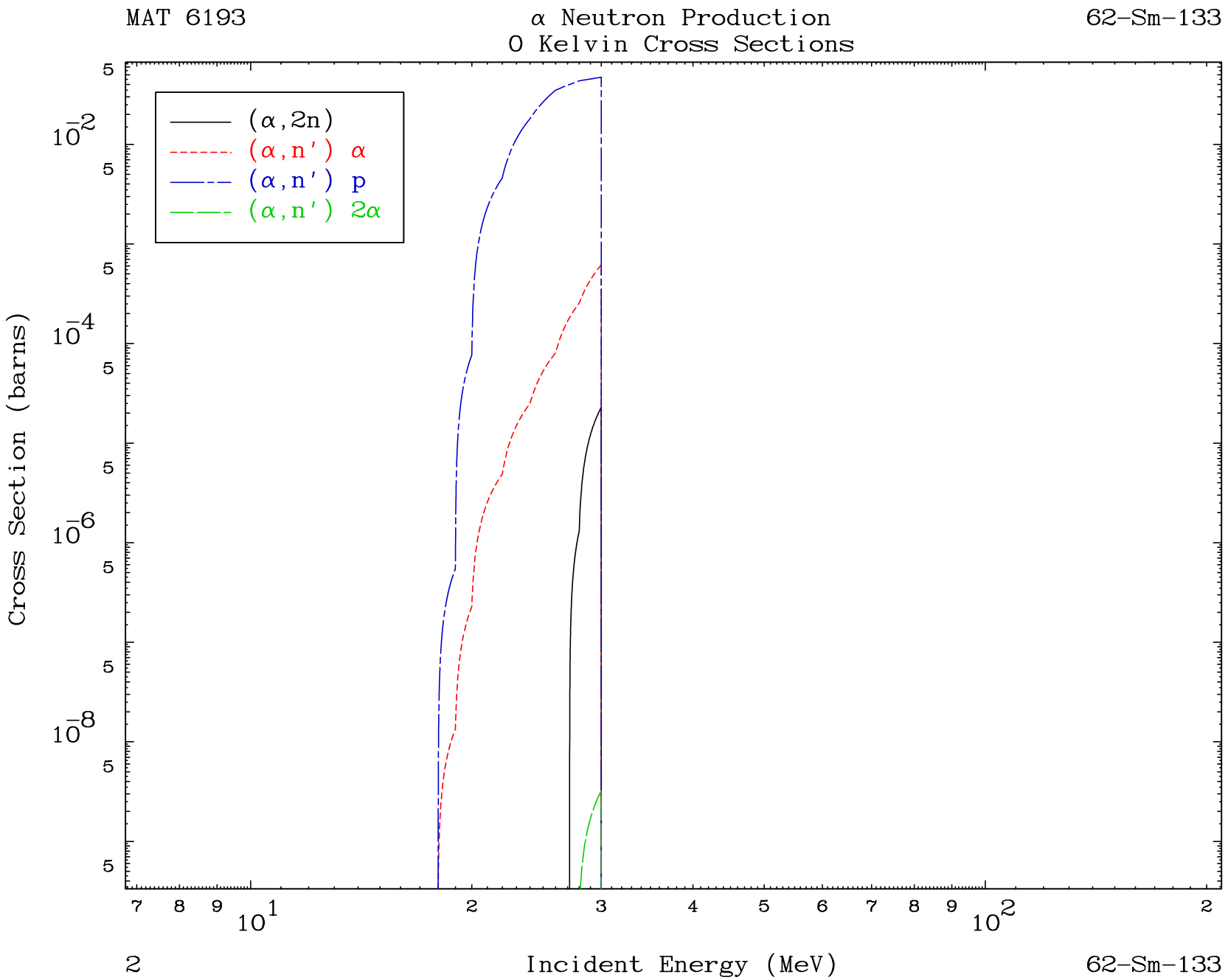
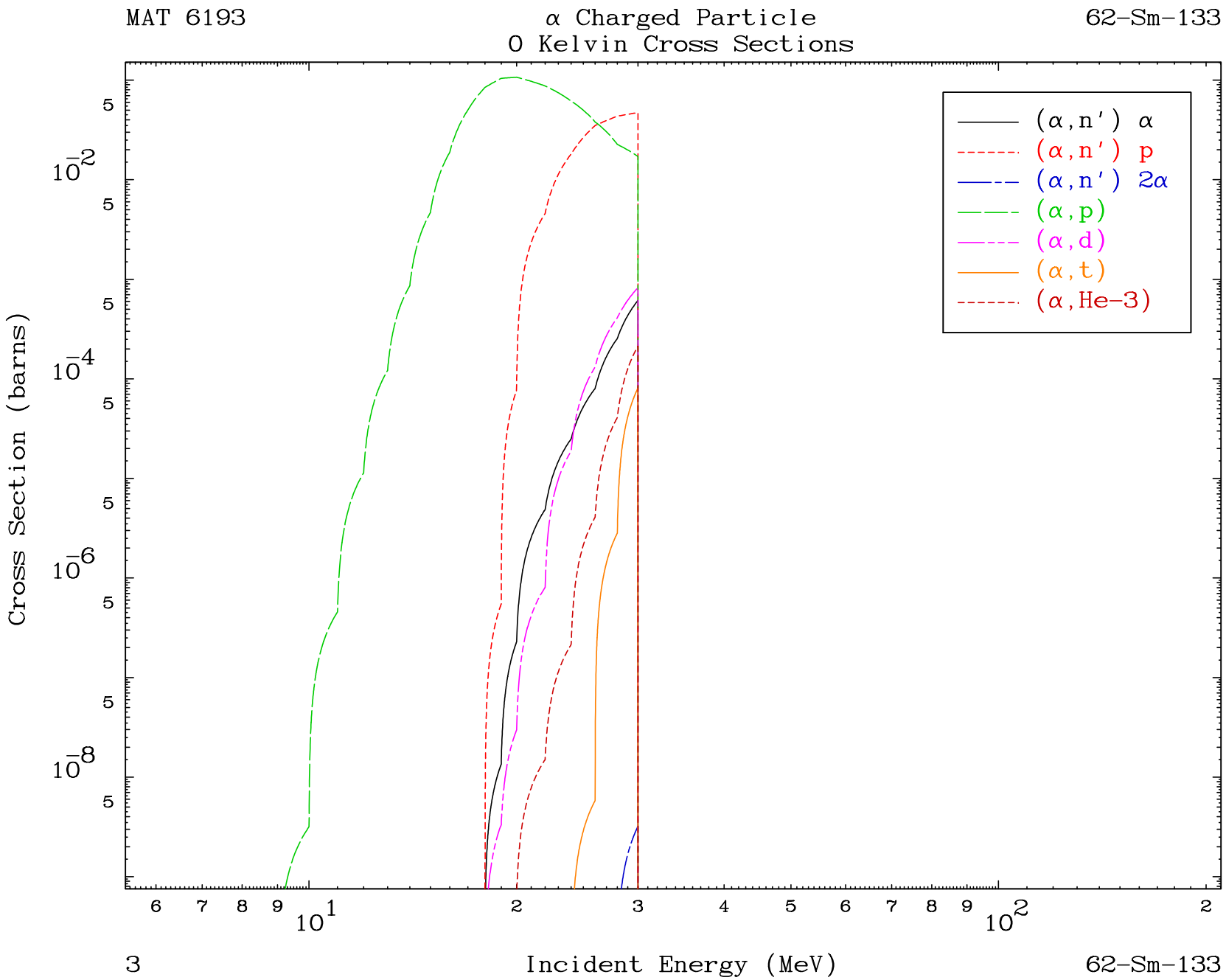
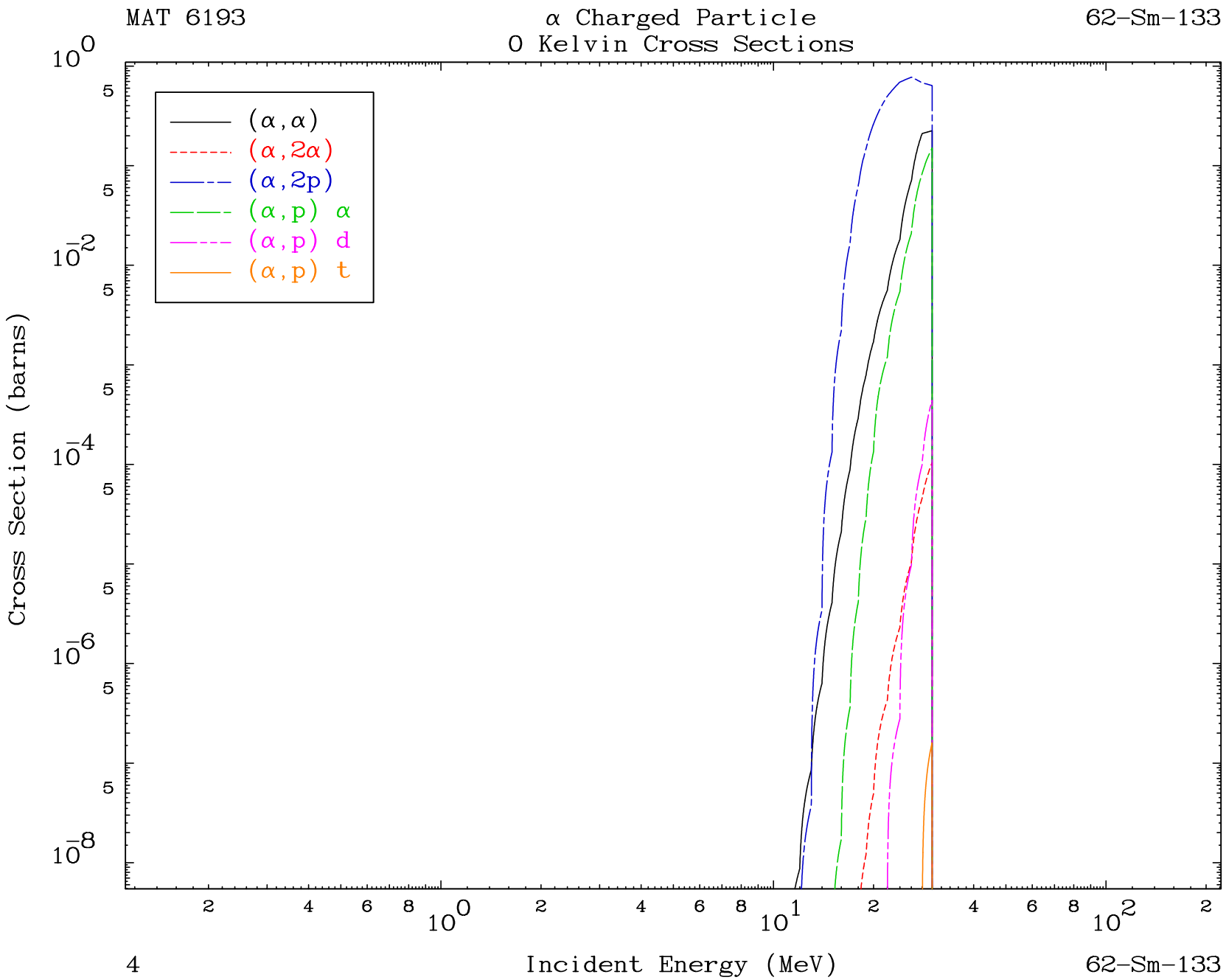
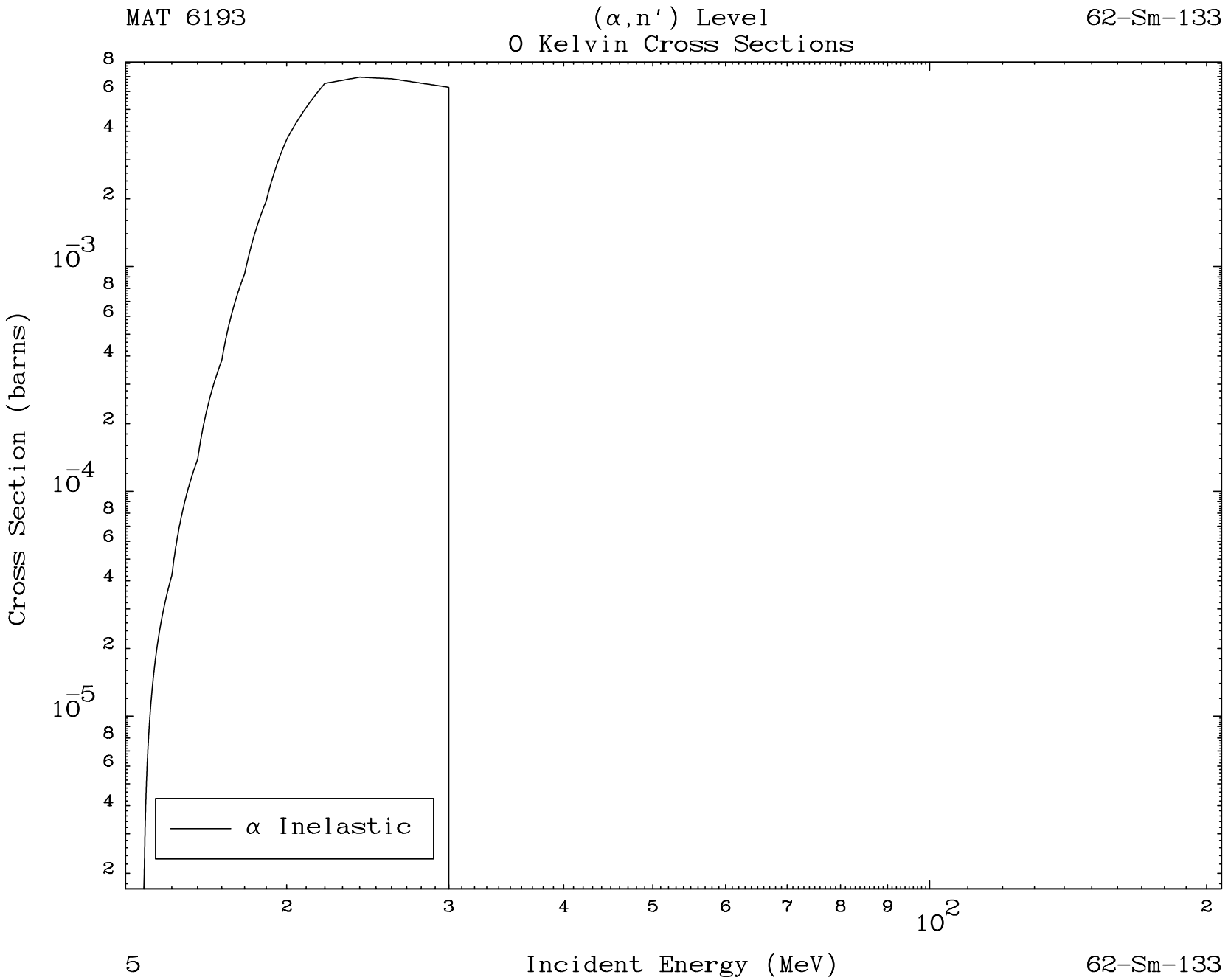
Press Mouse Button to Start

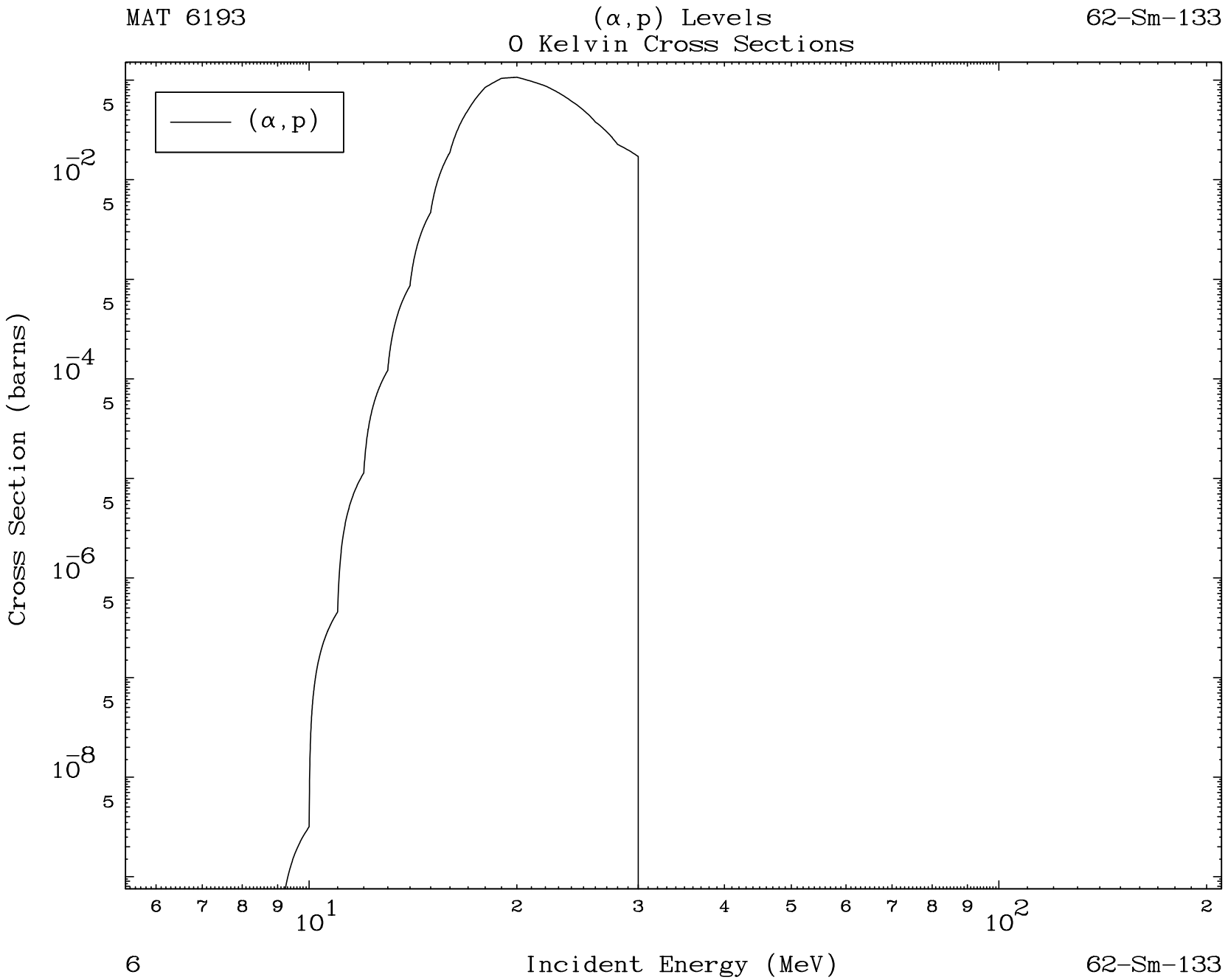

MAT 6193
α Major
62-Sm-133
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-133

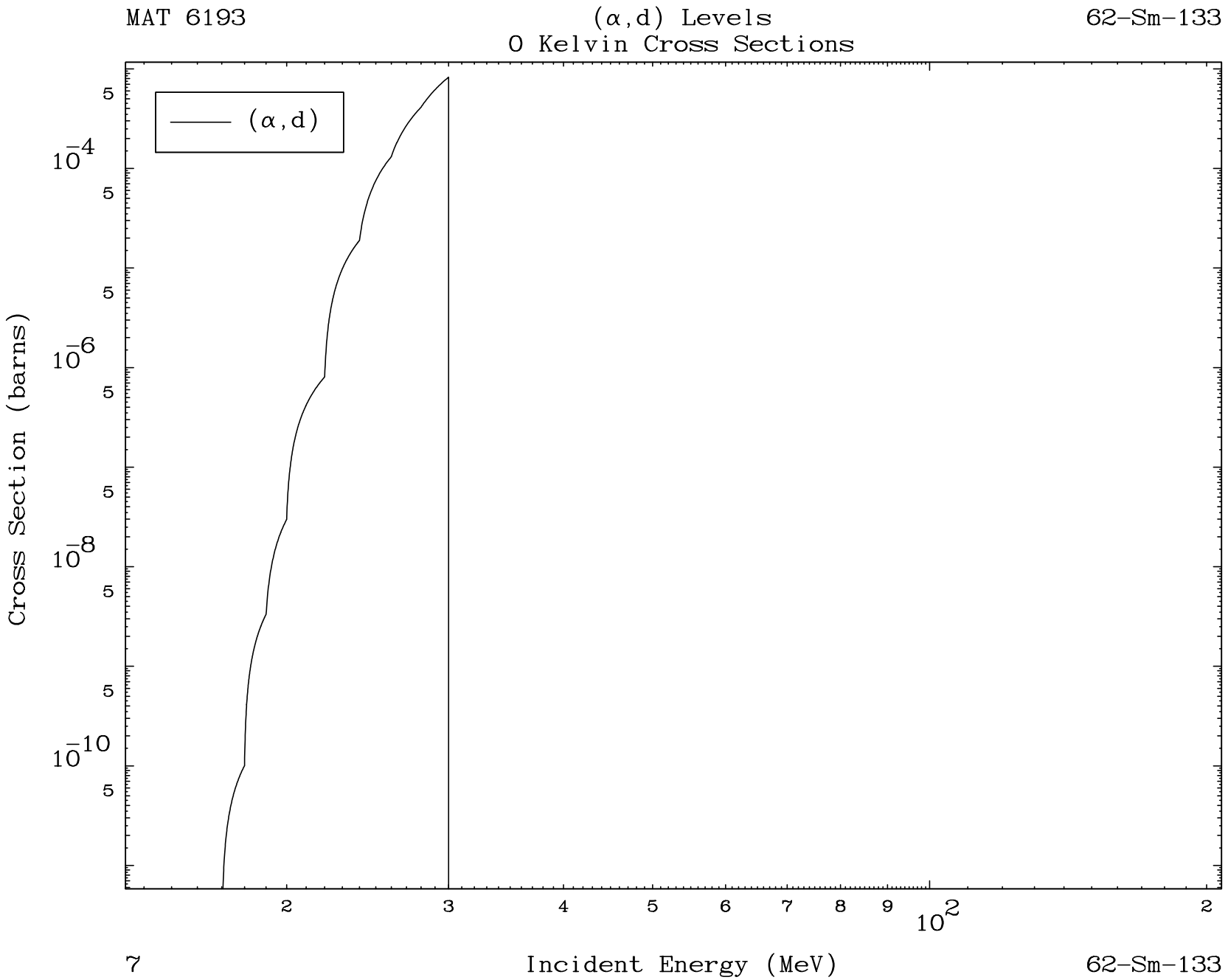

MAT 6193
α Neutron Production
0 Kelvin Cross Sections
62-Sm-133
(α,2n)
(α,n') α
(α,n') p
(α,n') 2α
Cross Section (barns)
Incident Energy (MeV)
62-Sm-133

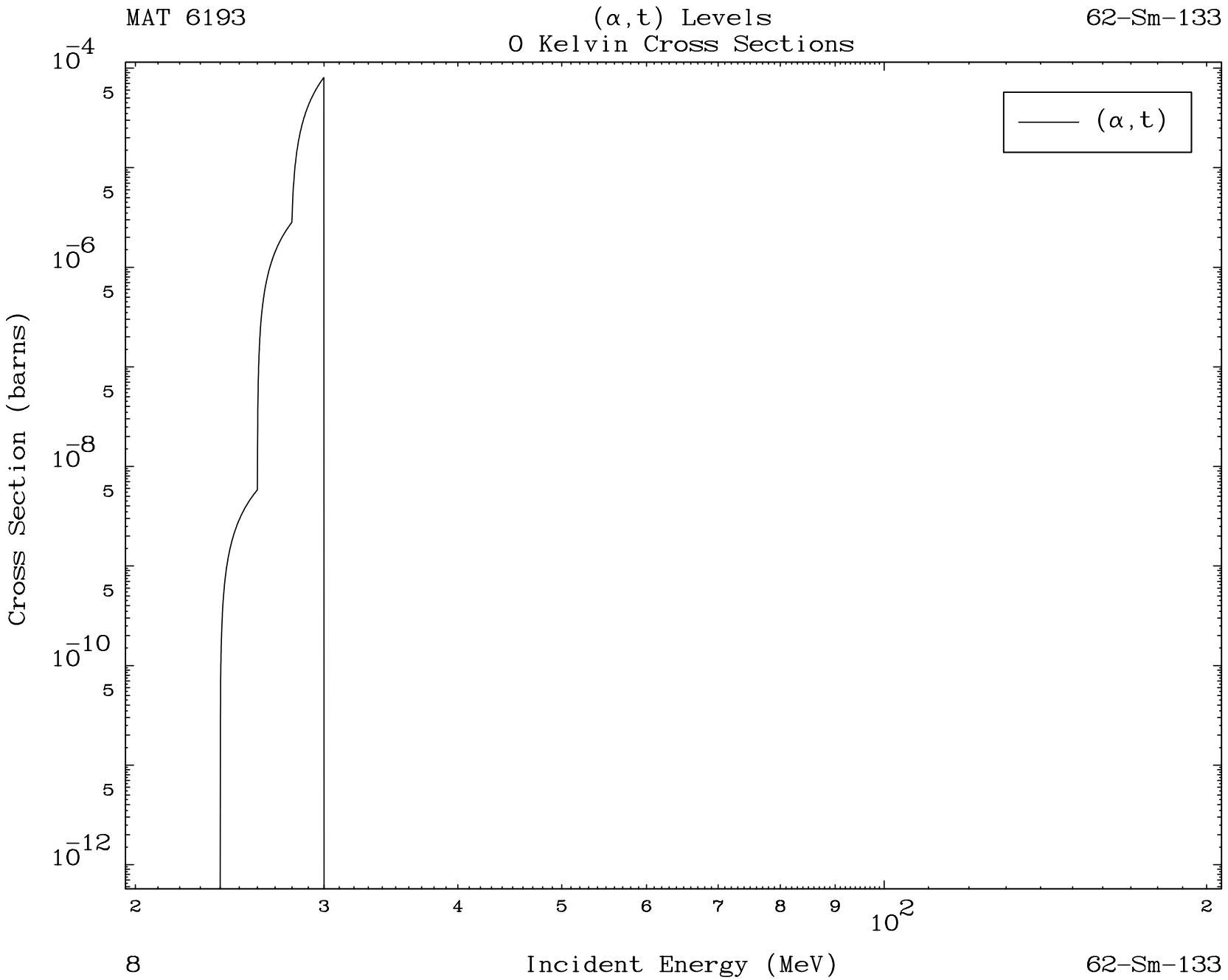

MAT 6193
α Charged Particle
0 Kelvin Cross Sections
62-Sm-133
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^1
10^2
Incident Energy (MeV)
(α,n') α
(α,n') p
(α,n') 2α
(α,p)
(α,d)
(α,t)
(α,He-3)
3
62-Sm-133

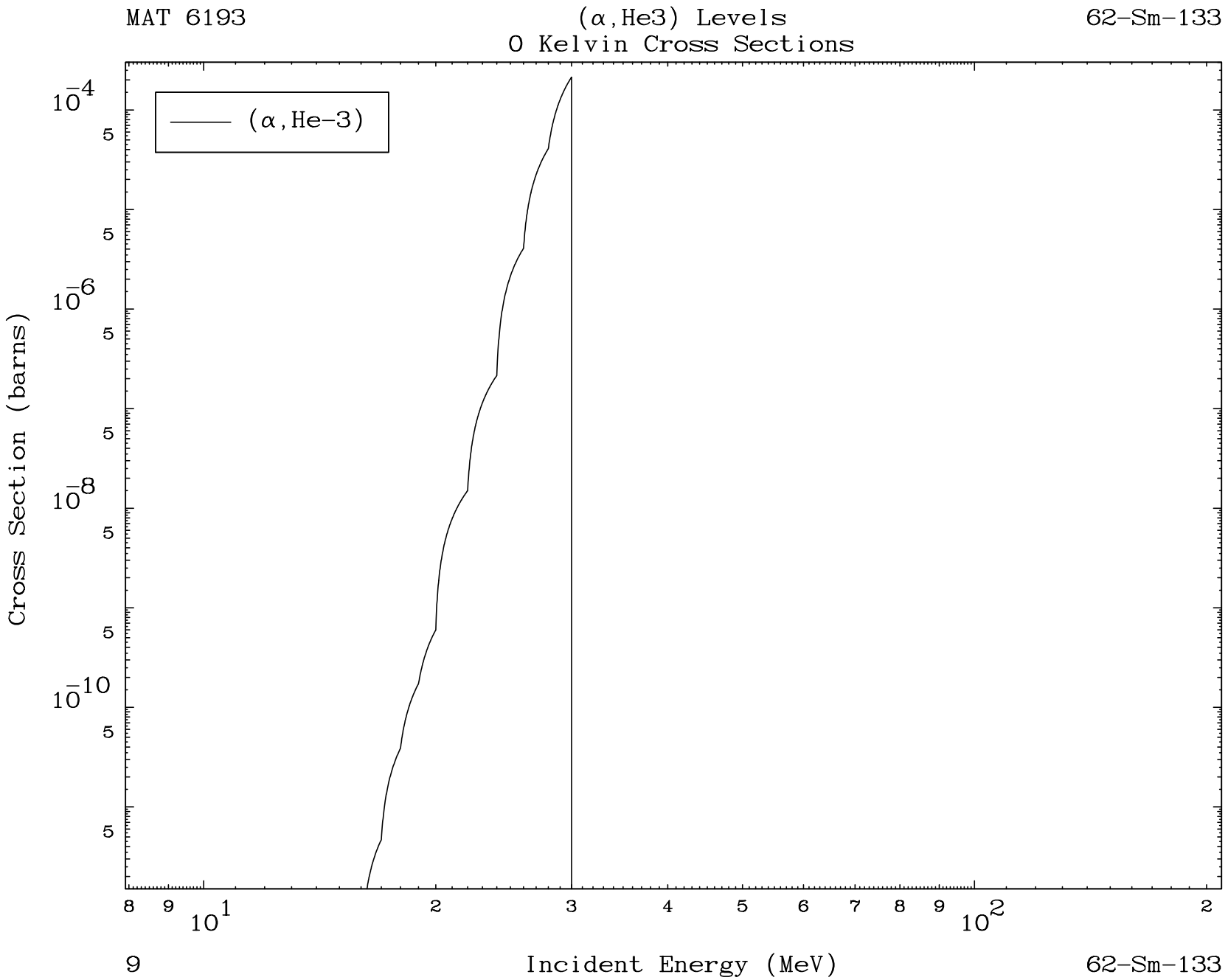

MAT 6193
α Charged Particle
0 Kelvin Cross Sections
62-Sm-133
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
(α,p) t
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-133

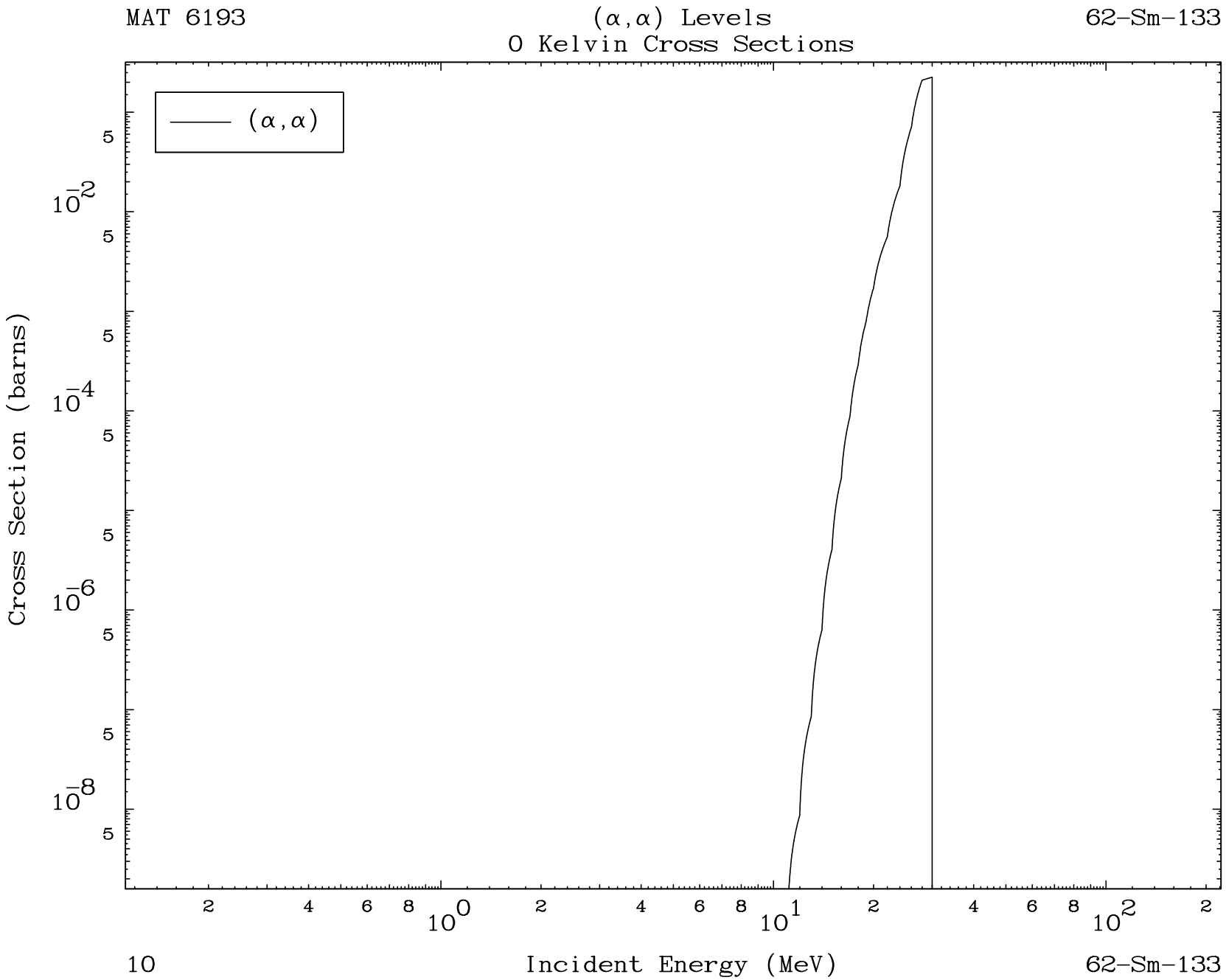

MAT 6193
(α,n') Level
62-Sm-133
0 Kelvin Cross Sections
Cross Section (barns)
10-3
10-4
10-5
8
6
4
2
α Inelastic
2
3
4
5
6
7
8
9
10^2
2
5
Incident Energy (MeV)
62-Sm-133

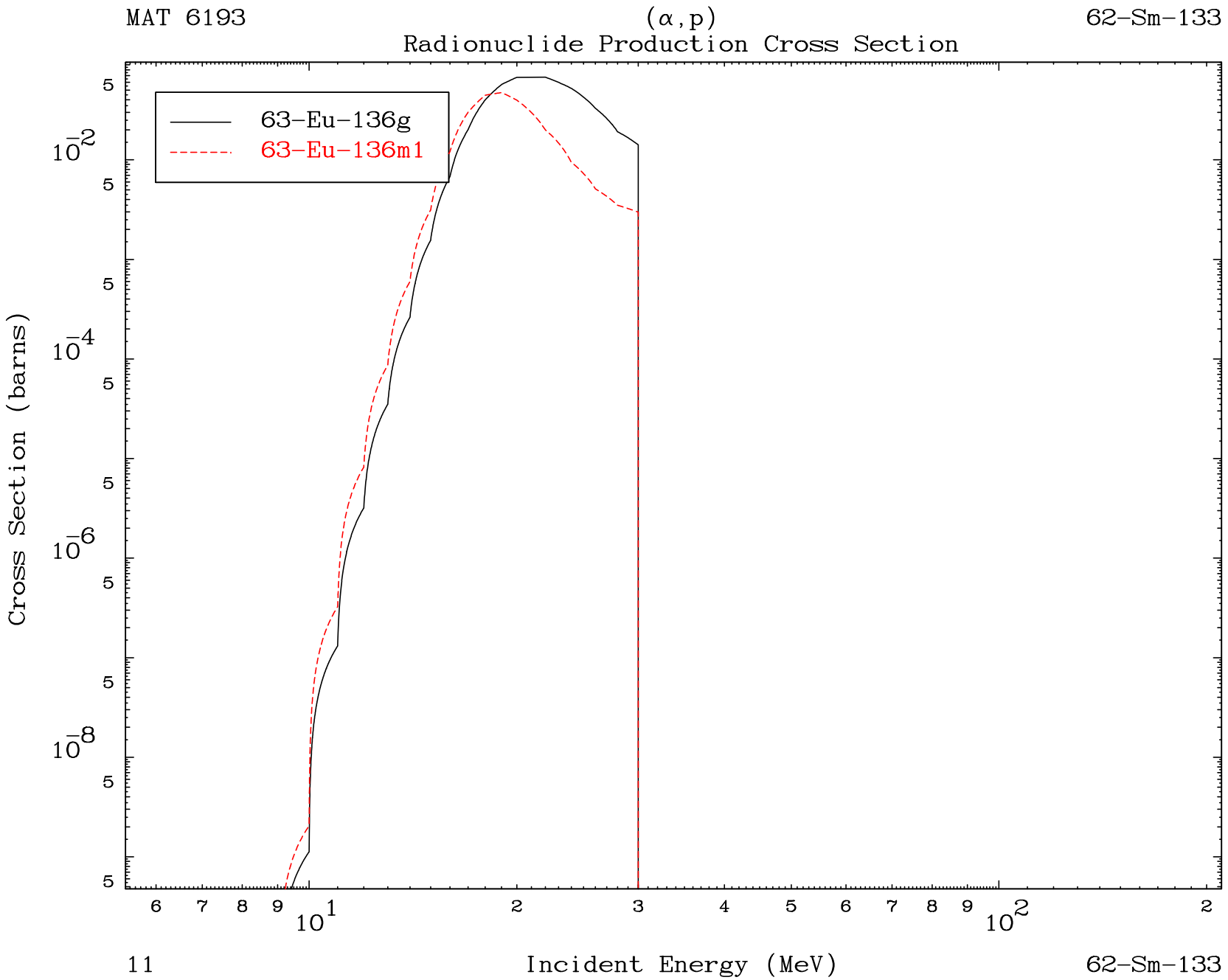

MAT 6193
(α,p) Levels
62-Sm-133
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
62-Sm-133

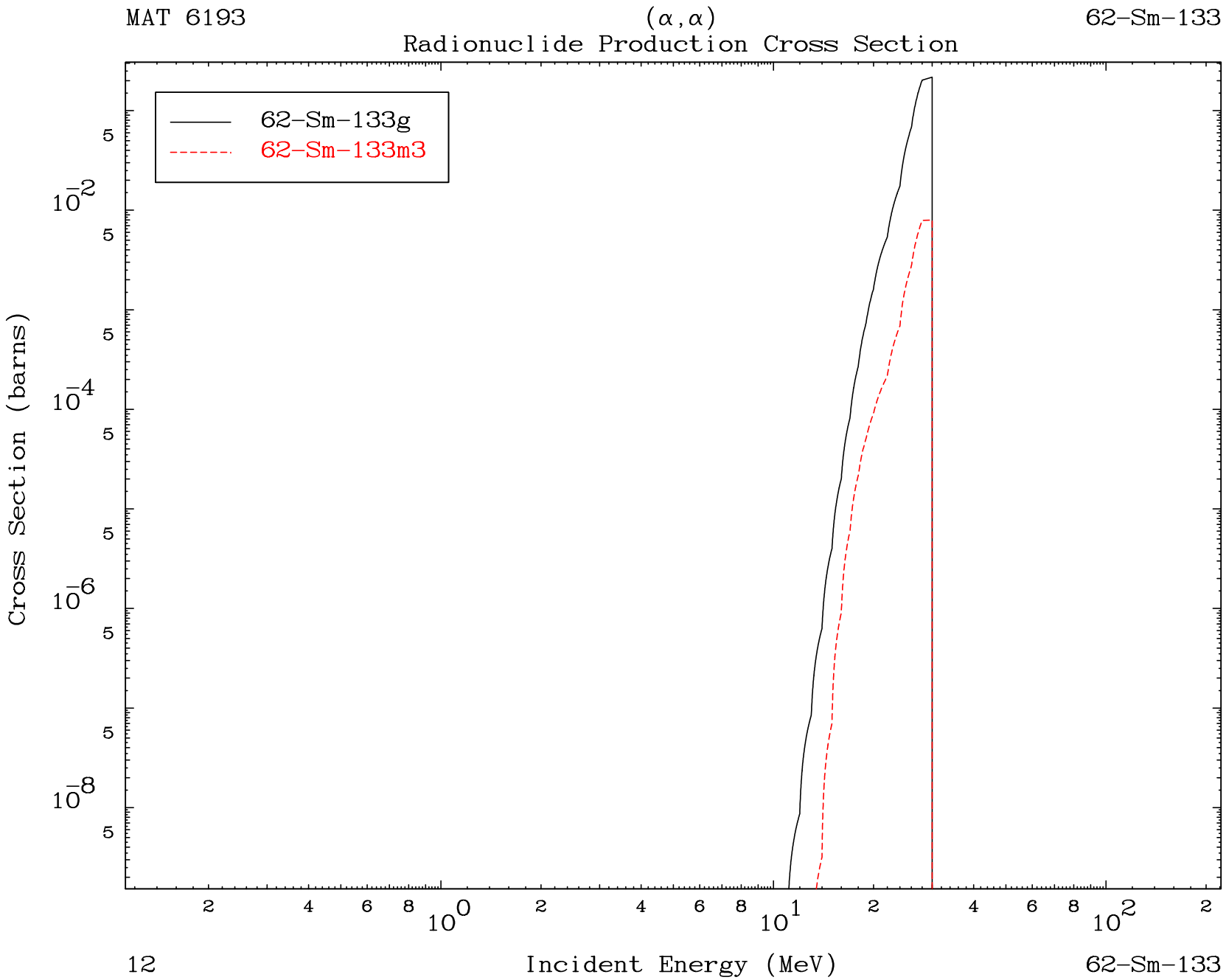

MAT 6193
(α,d) Levels
0 Kelvin Cross Sections
62-Sm-133
(α,d)
Cross Section (barns)
Incident Energy (MeV)
7
62-Sm-133

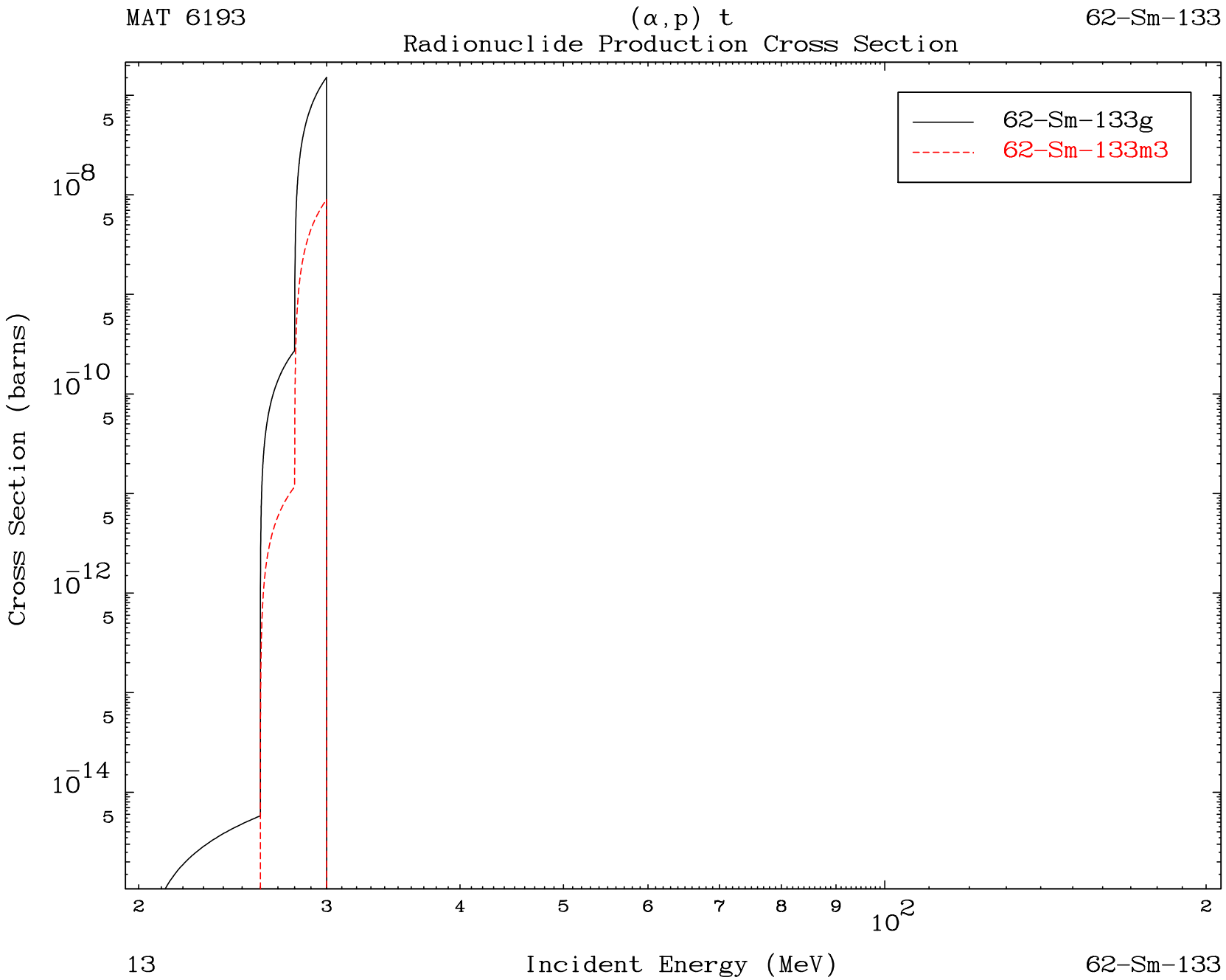

MAT 6193
(α,t) Levels
62-Sm-133
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
10-12
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
8
62-Sm-133


MAT 6193
(α,He3) Levels
62-Sm-133
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
9
62-Sm-133


MAT 6193
(α,α) Levels
62-Sm-133
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
62-Sm-133


MAT 6193
(α,p)
62-Sm-133
Radionuclide Production Cross Section
63-Eu-136g
63-Eu-136m1
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
11
Incident Energy (MeV)
62-Sm-133


MAT 6193
(α,α)
62-Sm-133
Radionuclide Production Cross Section
62-Sm-133g
62-Sm-133m3
Cross Section (barns)
Incident Energy (MeV)
12
62-Sm-133


MAT 6193
(α,p) t
62-Sm-133
Radionuclide Production Cross Section
62-Sm-133g
62-Sm-133m3
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
62-Sm-133