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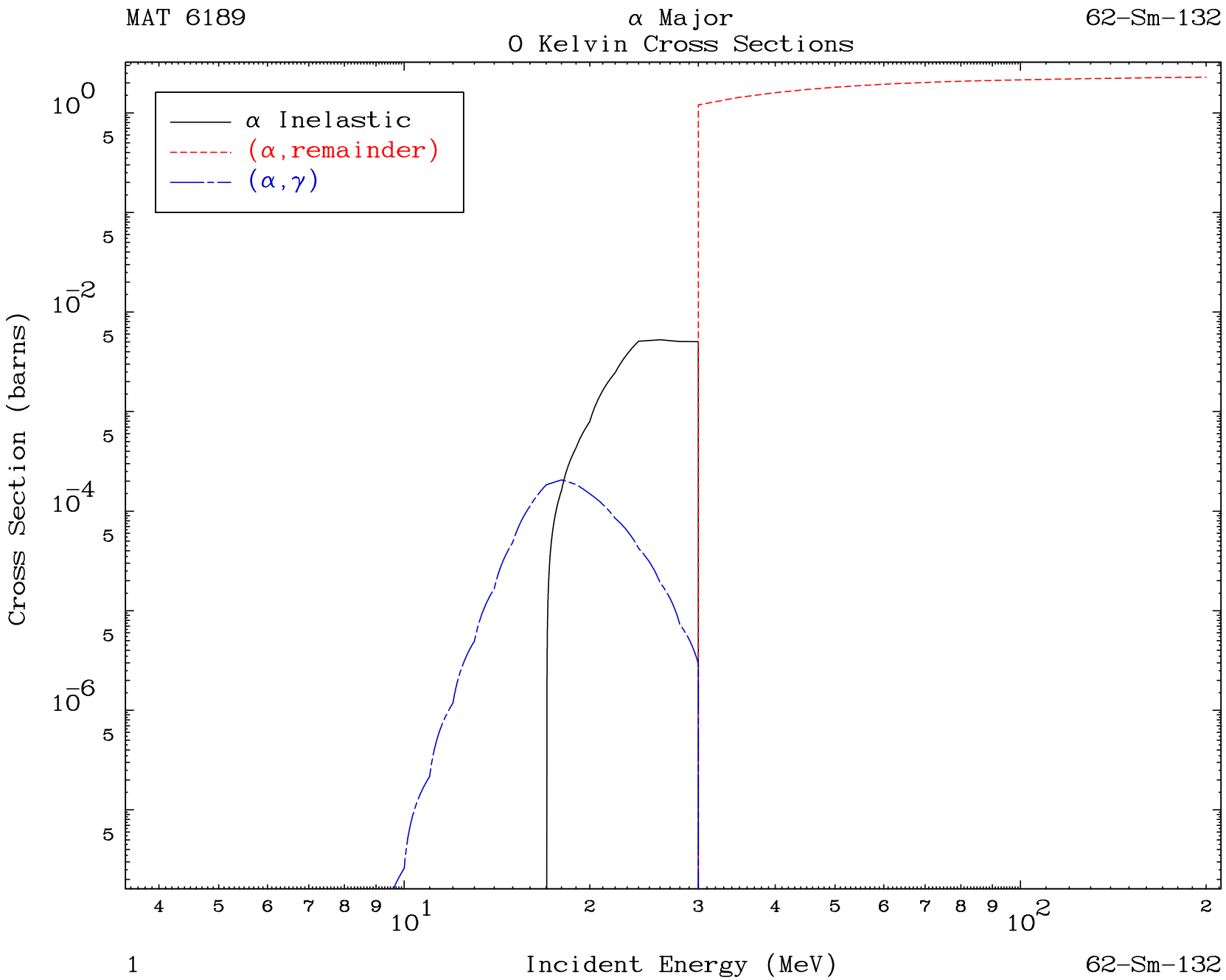
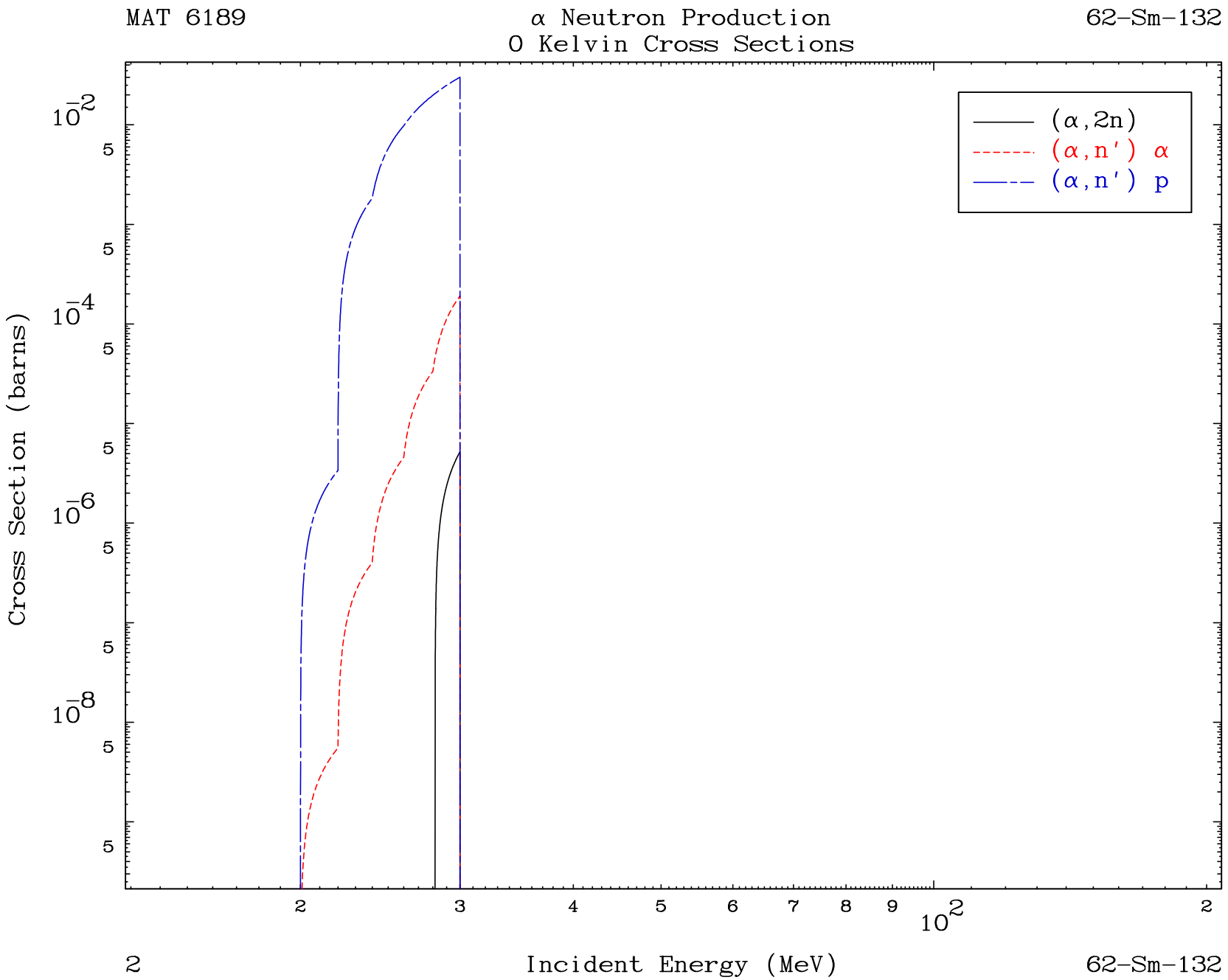
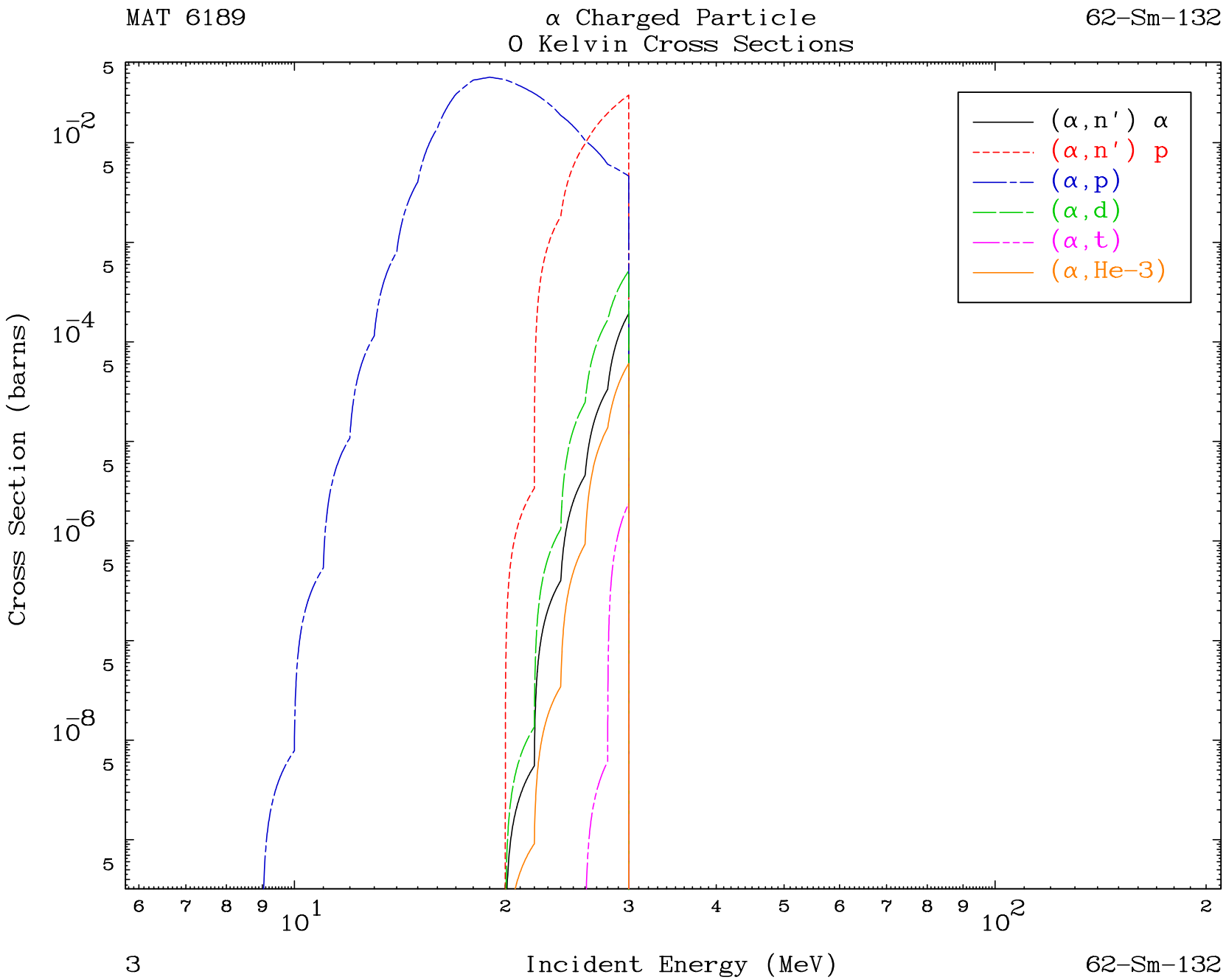
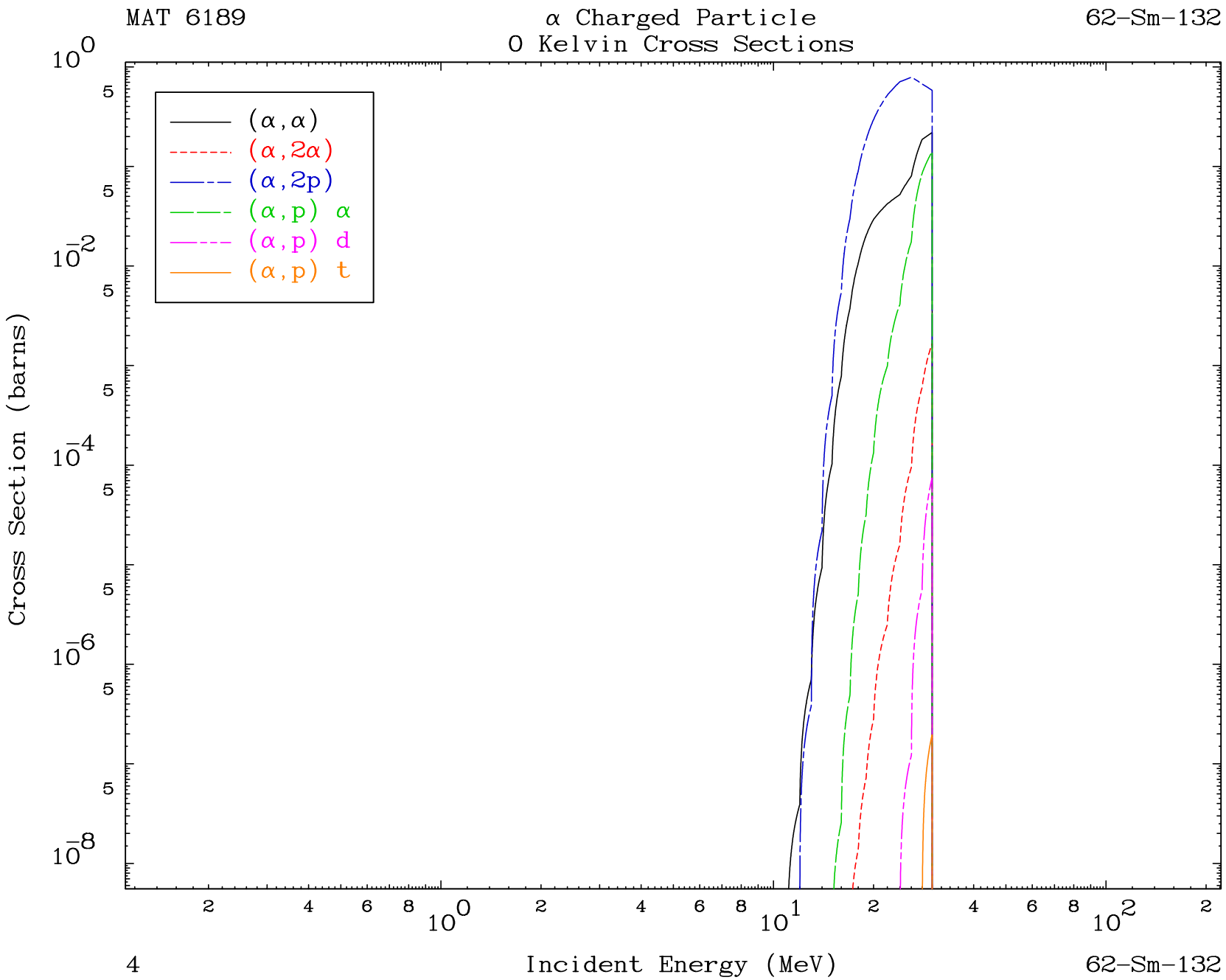
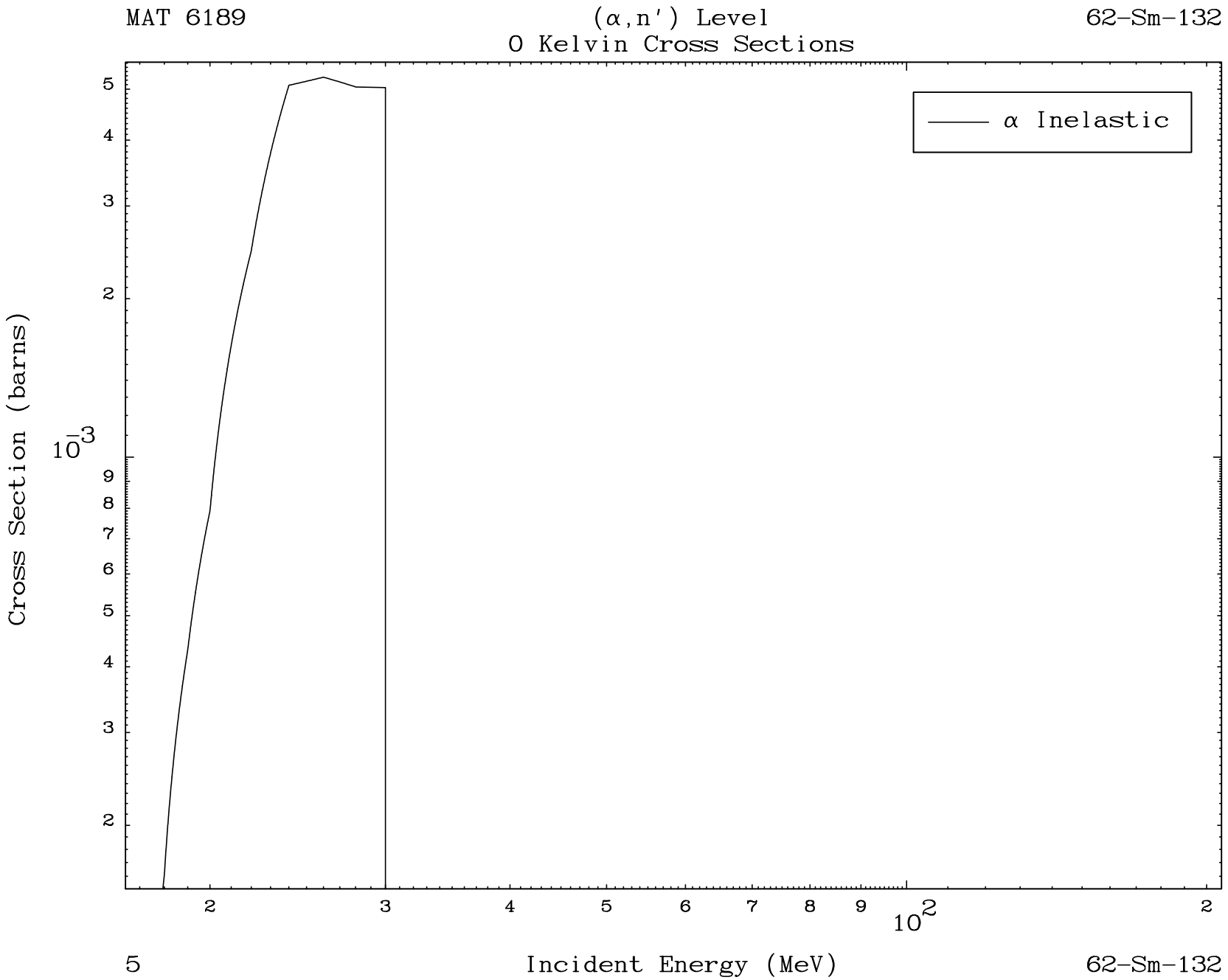
Press Mouse Button to Start

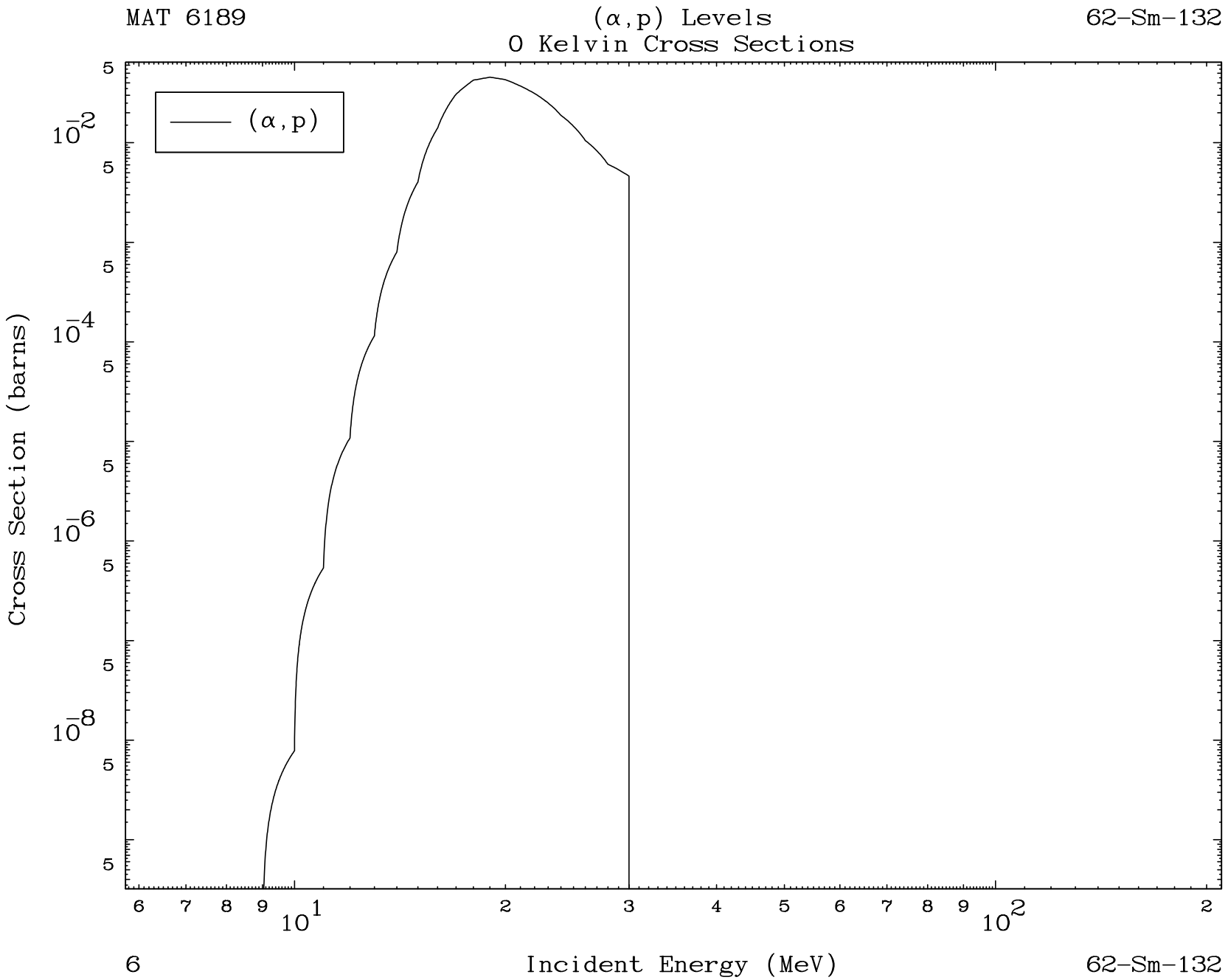

MAT 6189
α Major
62-Sm-132
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-132

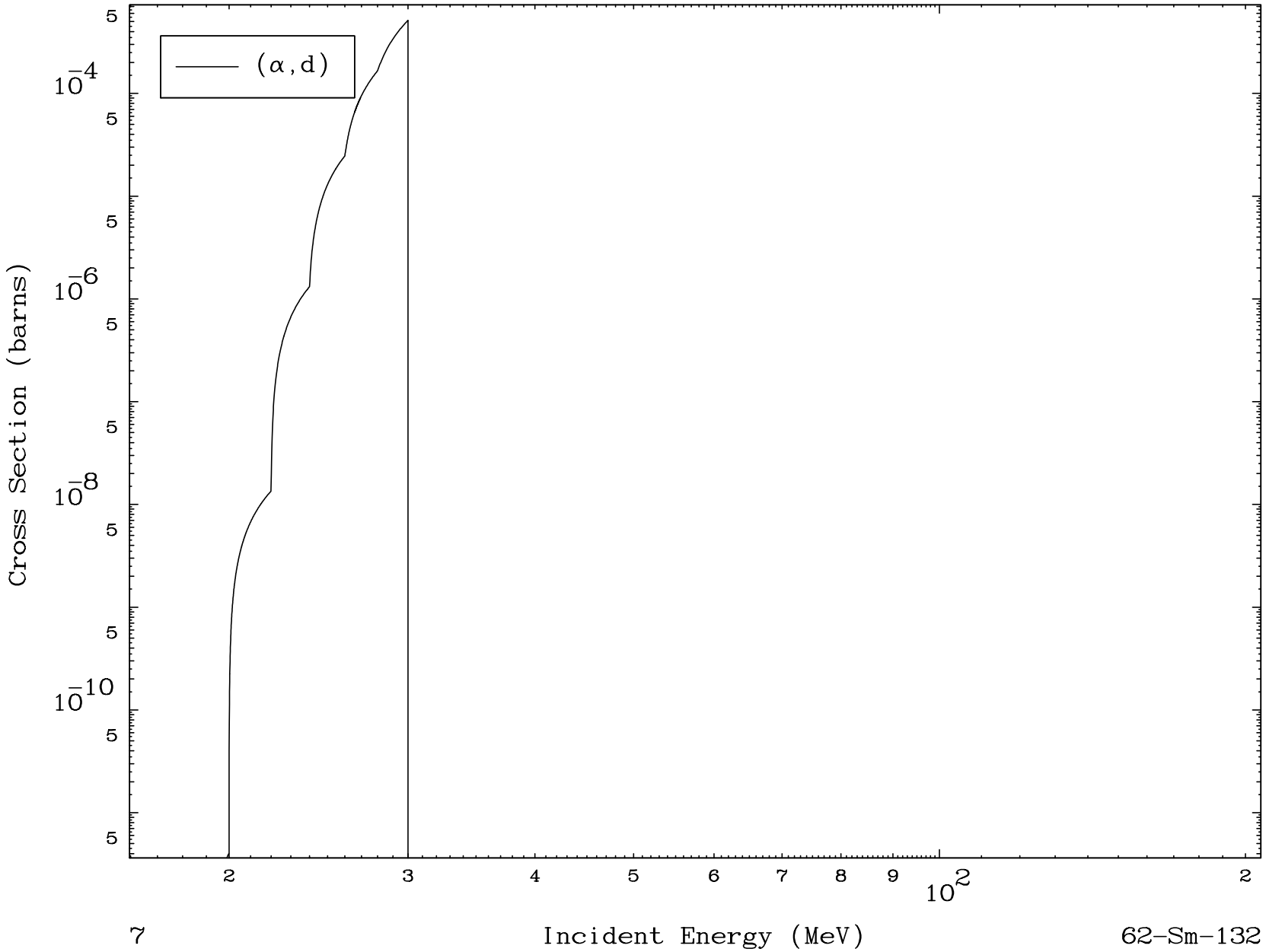

MAT 6189
α Neutron Production
0 Kelvin Cross Sections
62-Sm-132
(α,2n)
(α,n') α
(α,n') p
Cross Section (barns)
Incident Energy (MeV)
62-Sm-132

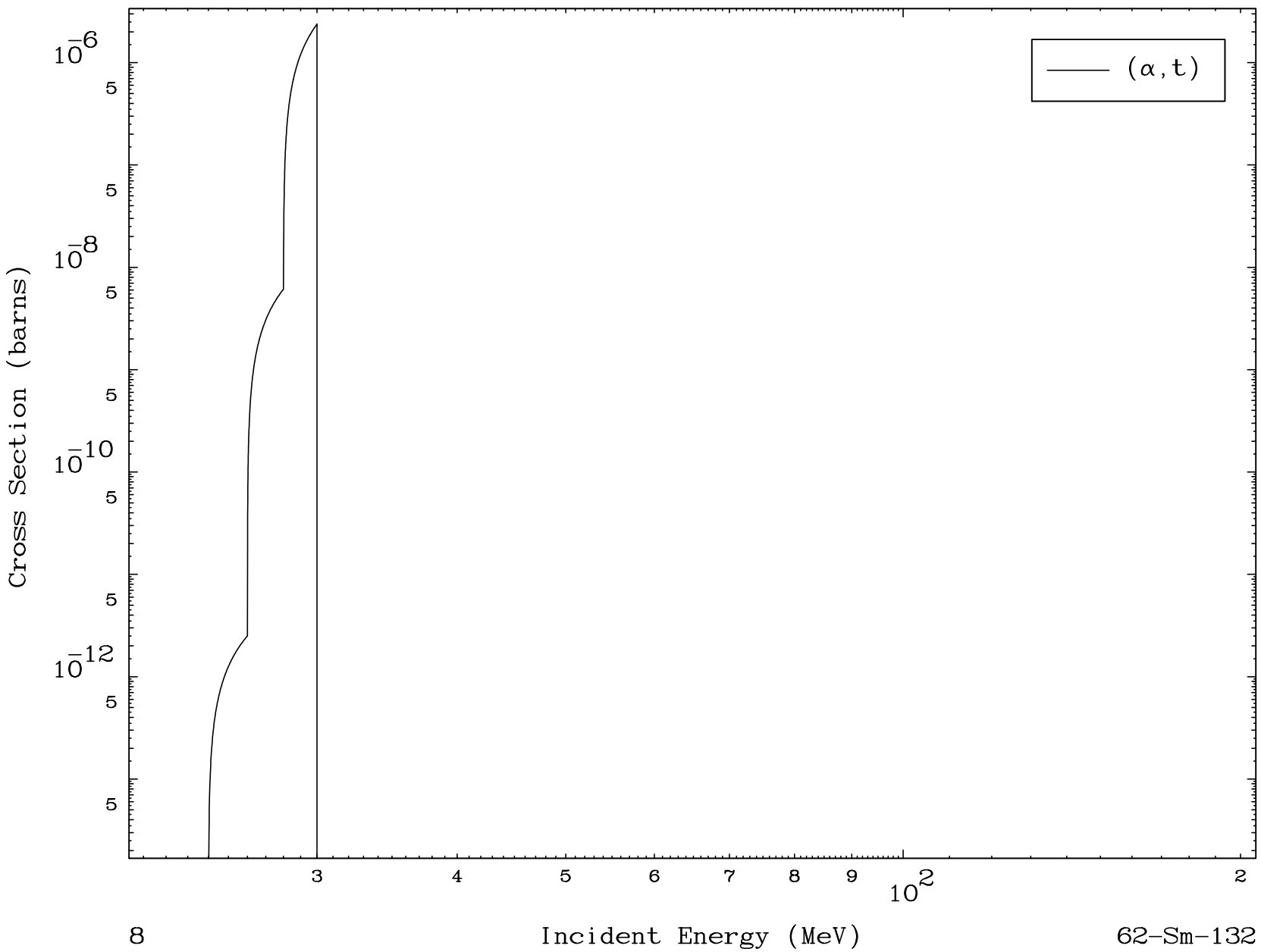

MAT 6189
α Charged Particle
0 Kelvin Cross Sections
62-Sm-132
Cross Section (barns)
Incident Energy (MeV)
(α,n') α
(α,n') p
(α,p)
(α,d)
(α,t)
(α,He-3)
3
62-Sm-132

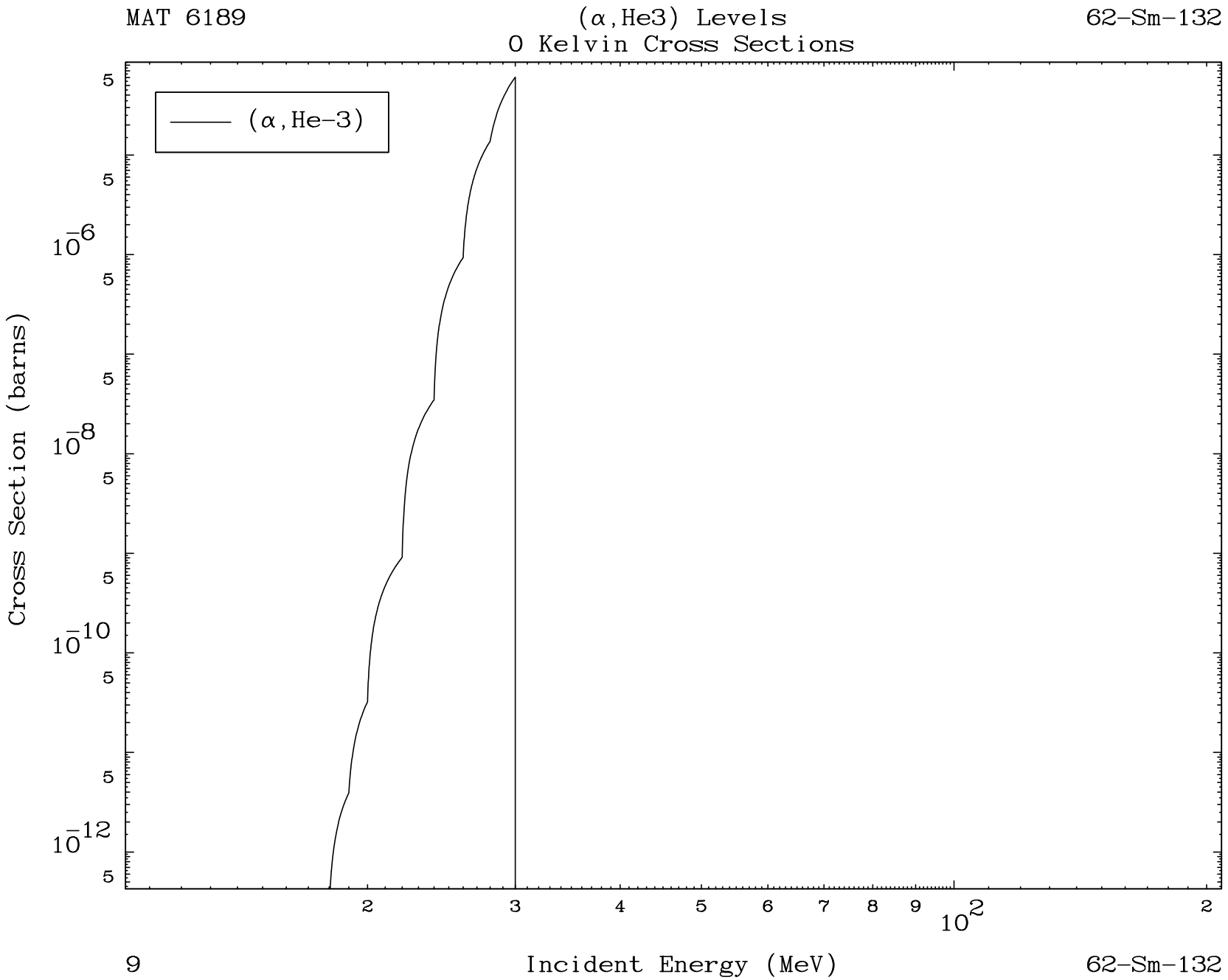

MAT 6189
α Charged Particle
0 Kelvin Cross Sections
62-Sm-132
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
(α,p) t
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-132

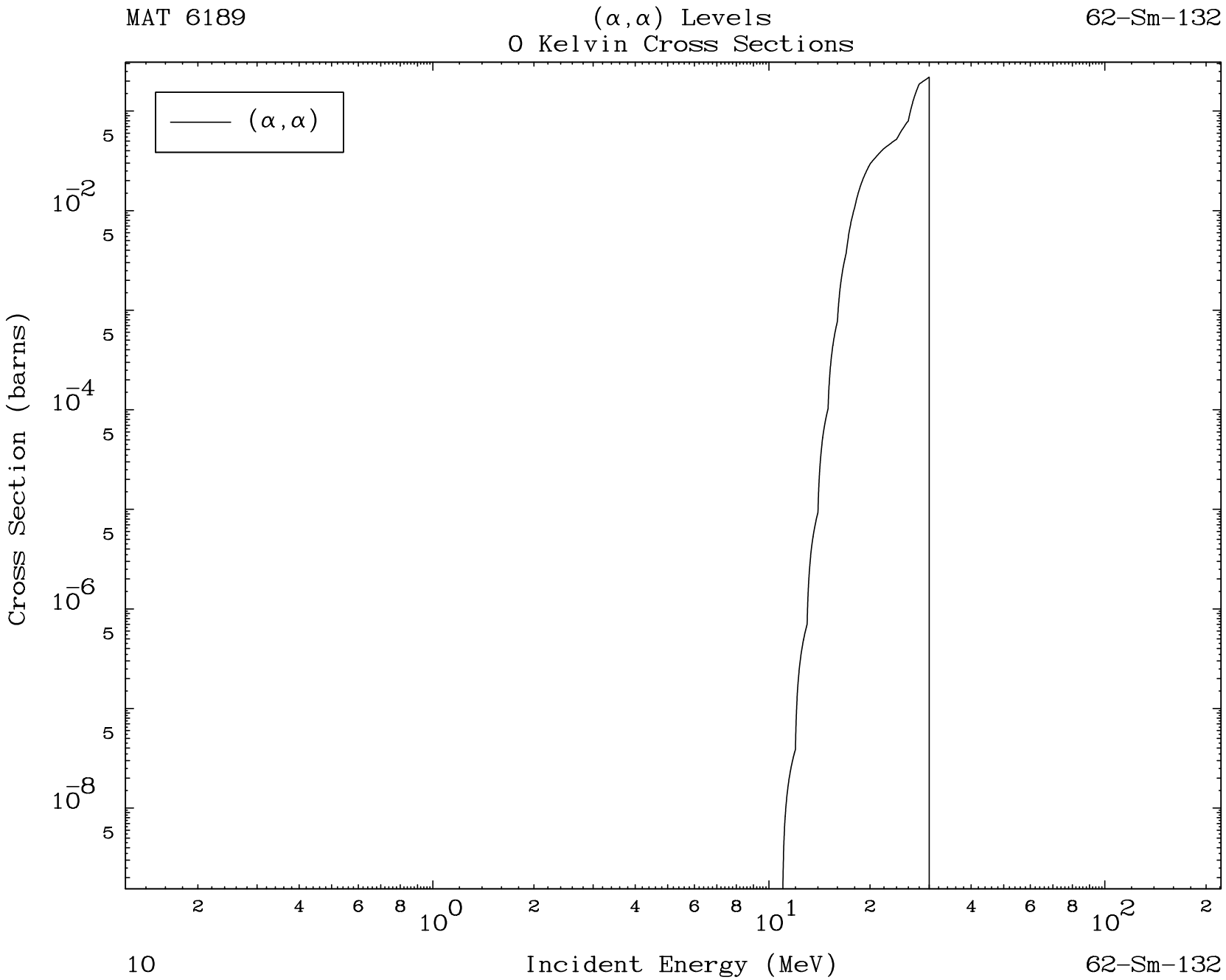

MAT 6189
(α,n') Level
62-Sm-132
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-3
5
4
3
2
9
8
7
6
5
4
3
2
2
3
4
5
6
7
8
9
10 2
2
5
Incident Energy (MeV)
62-Sm-132

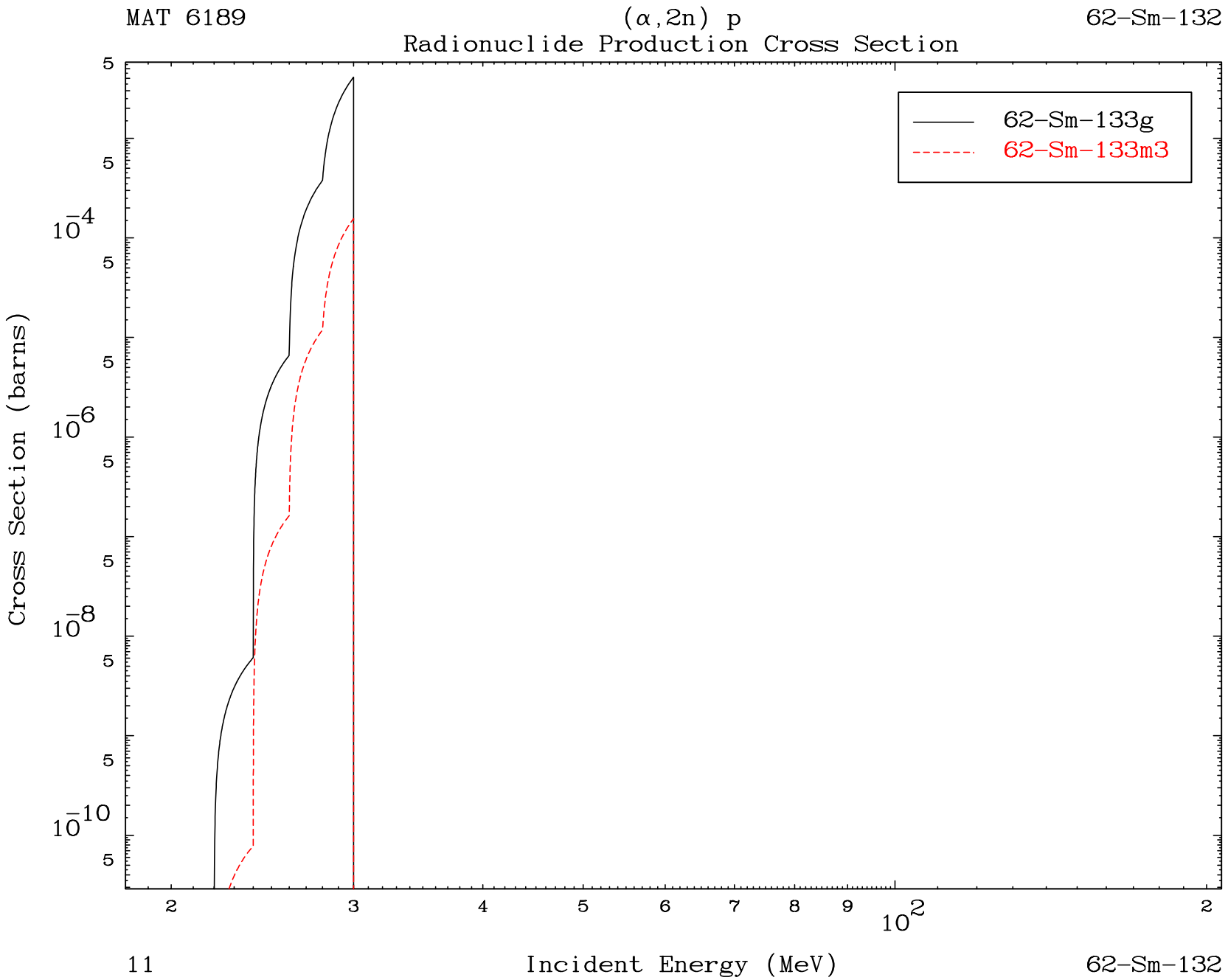

MAT 6189
(α,p) Levels
62-Sm-132
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-132
6

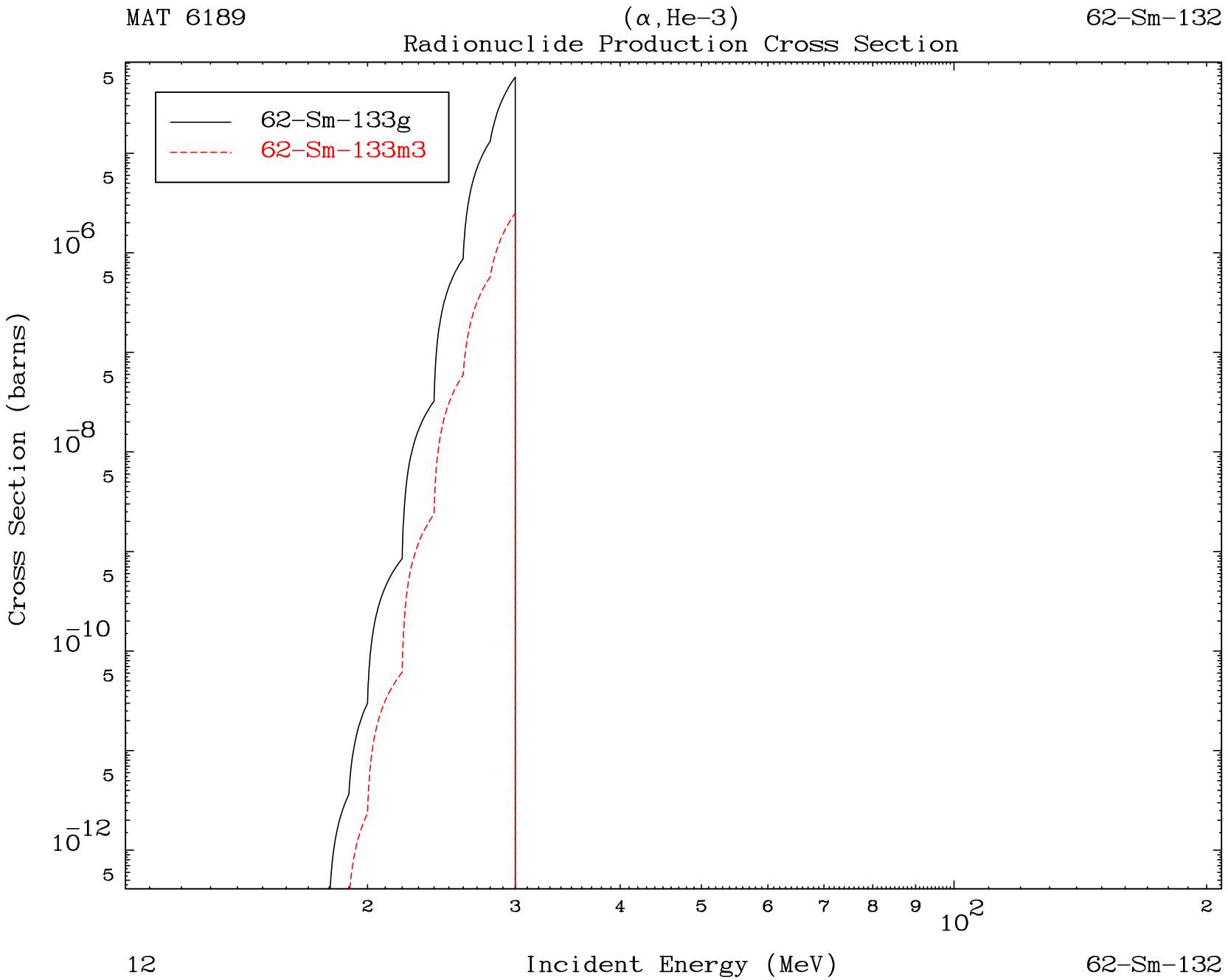

0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)

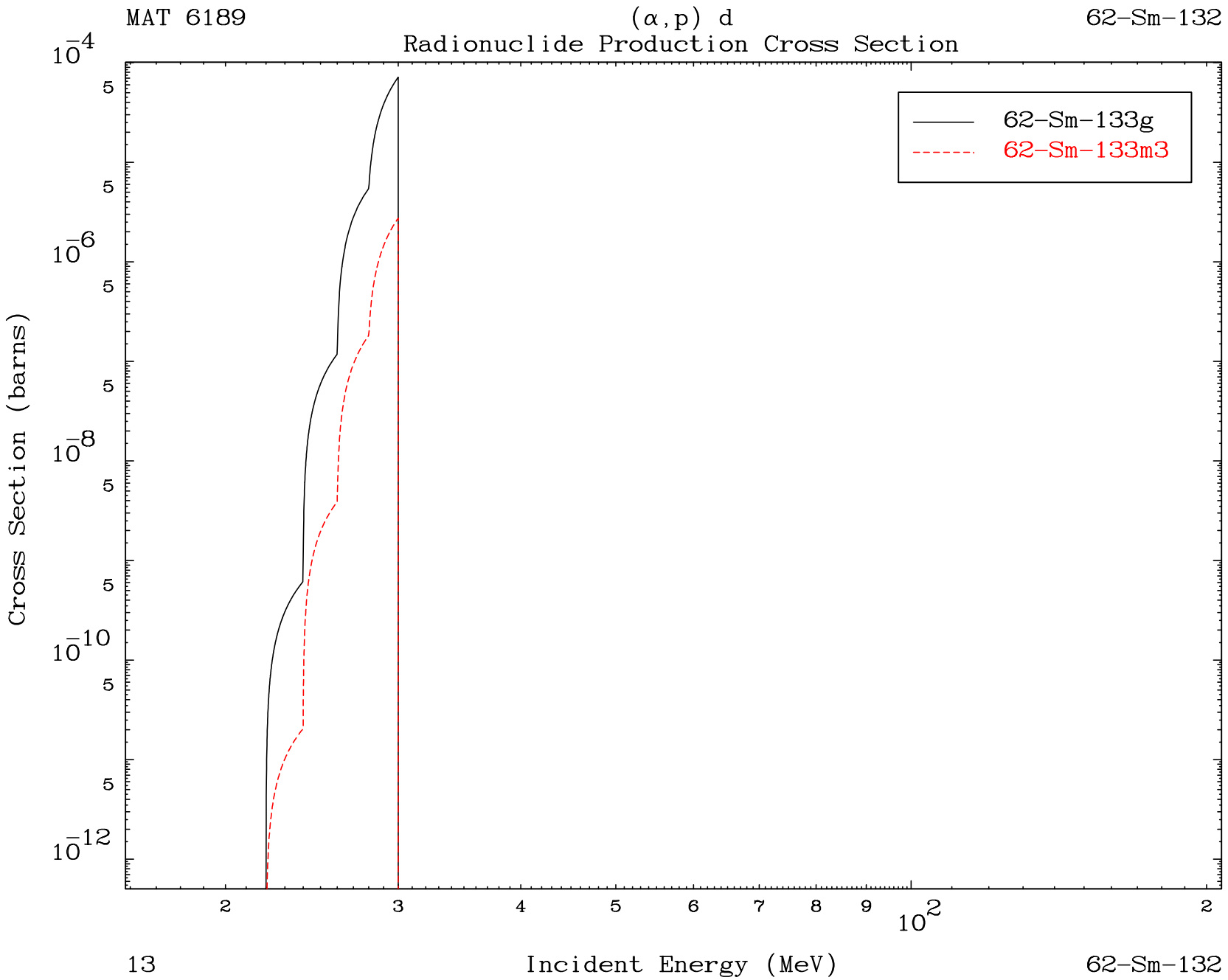

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-6
5
10-8
5
10-10
5
10-12
5
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)


MAT 6189
(α,He3) Levels
62-Sm-132
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
62-Sm-132


MAT 6189
(α,α) Levels
62-Sm-132
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-132


MAT 6189
(α,2n) p
62-Sm-132
Radionuclide Production Cross Section
62-Sm-133g
62-Sm-133m3
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
62-Sm-132


MAT 6189
(α,He-3)
62-Sm-132
Radionuclide Production Cross Section
62-Sm-133g
62-Sm-133m3
Cross Section (barns)
Incident Energy (MeV)
12
62-Sm-132


MAT 6189
(α,p) d
62-Sm-132
Radionuclide Production Cross Section
62-Sm-133g
62-Sm-133m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
62-Sm-132