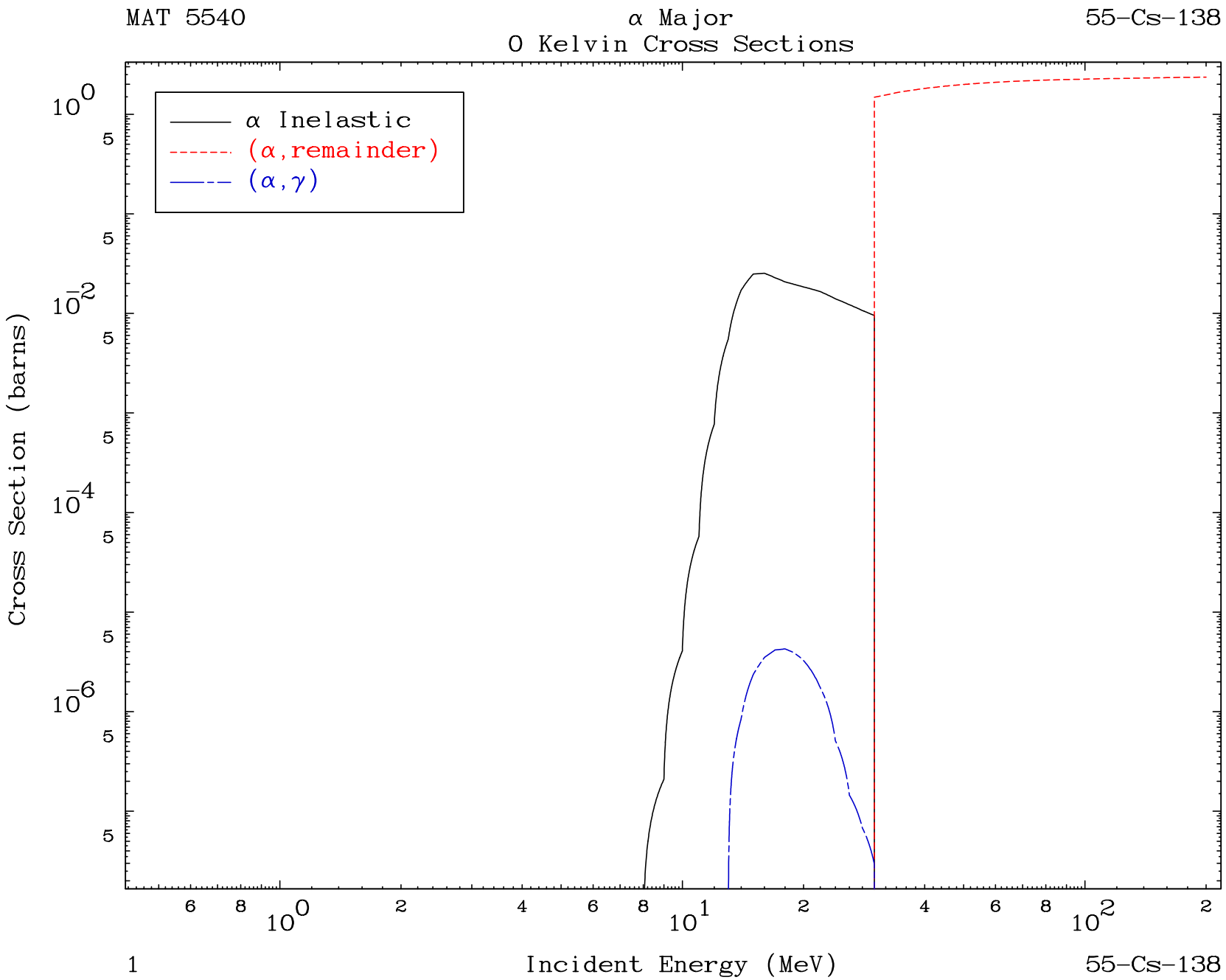
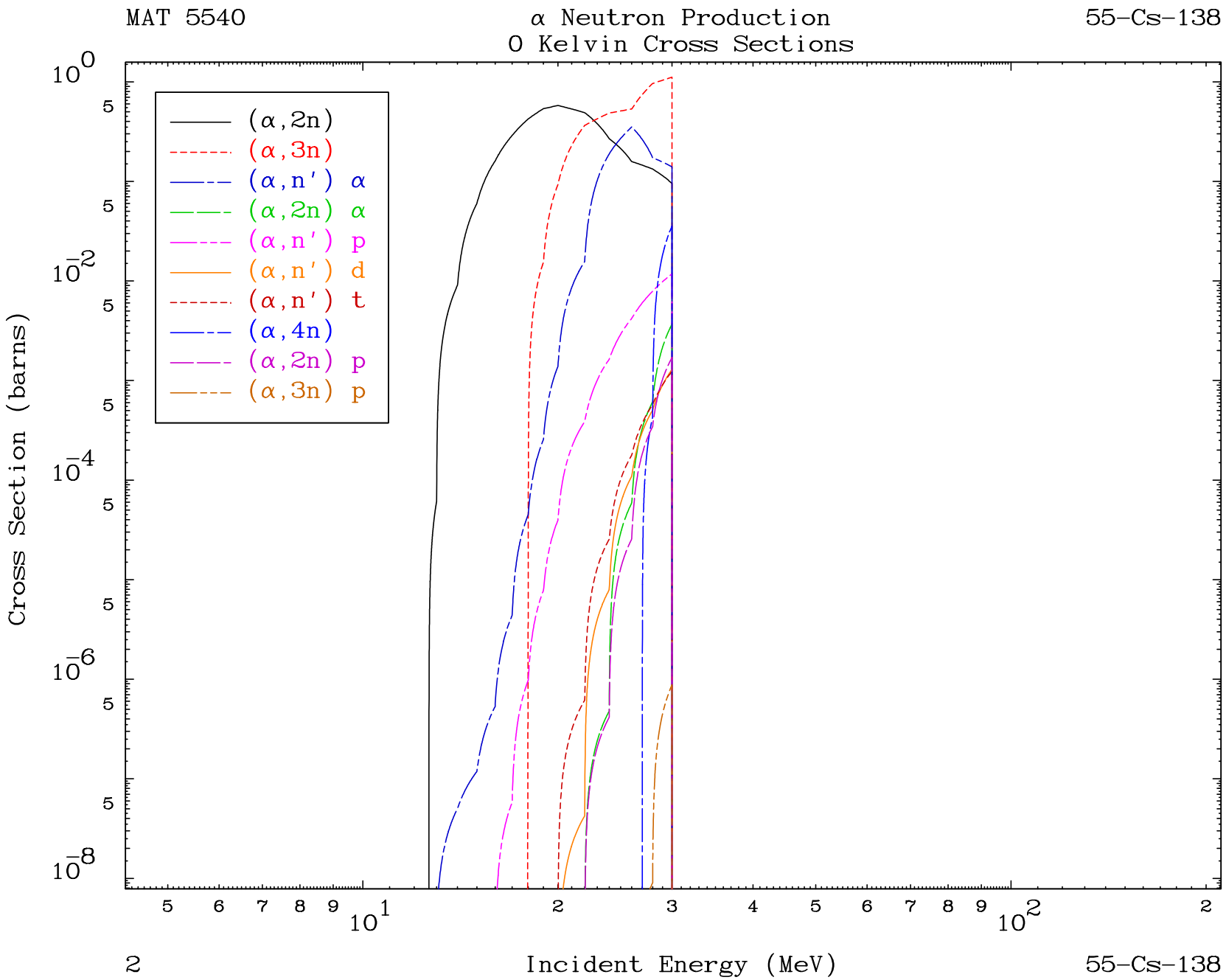
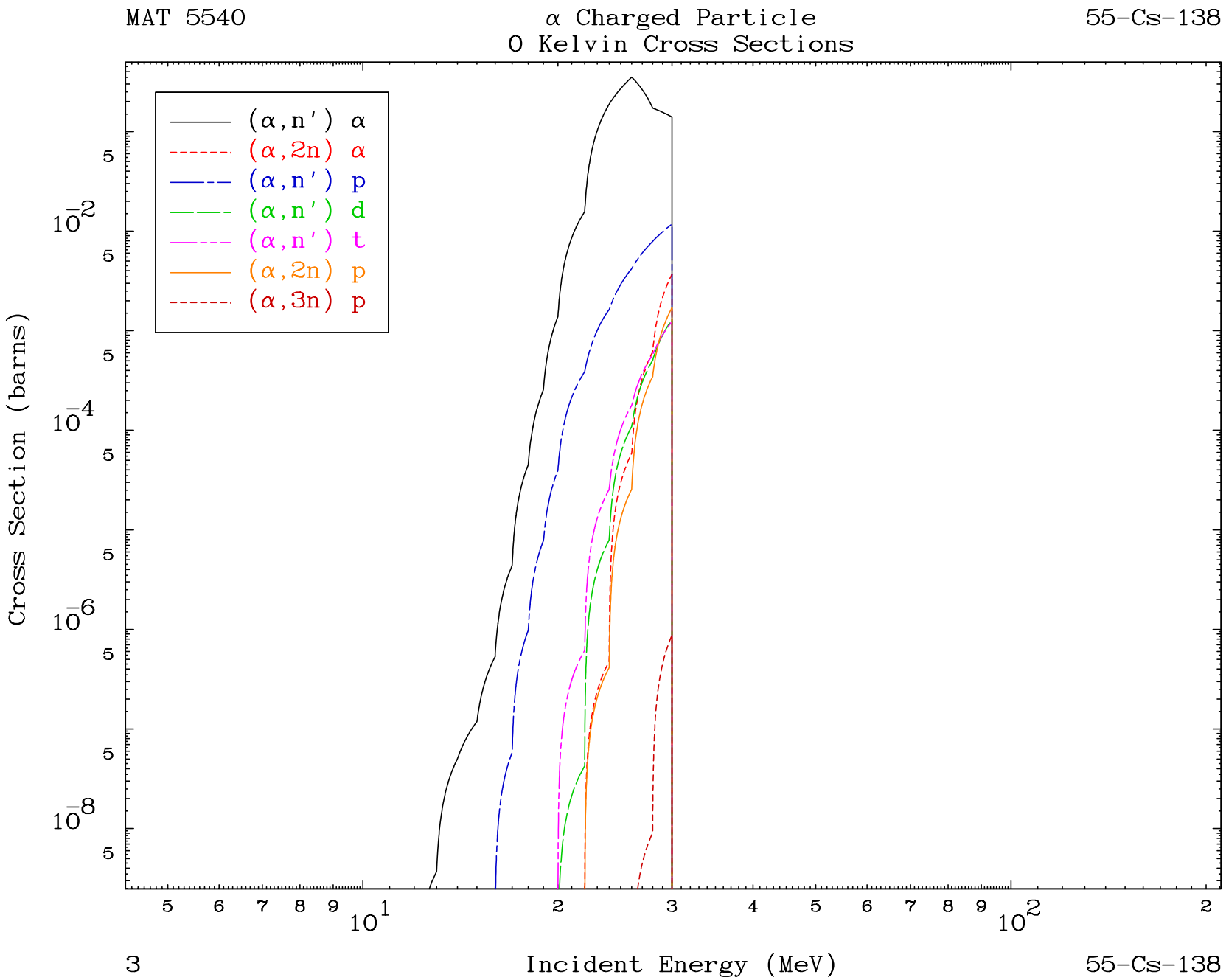
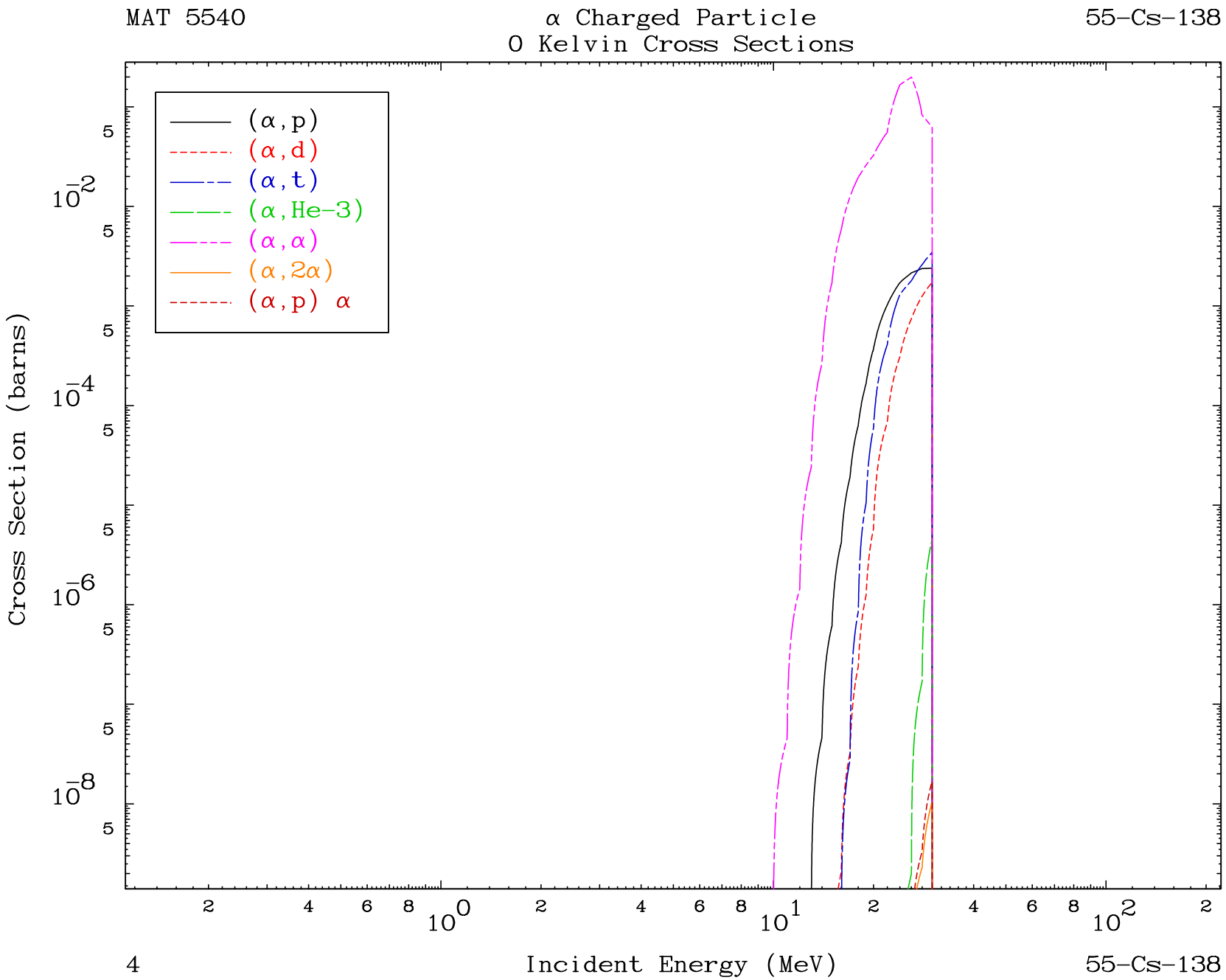
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

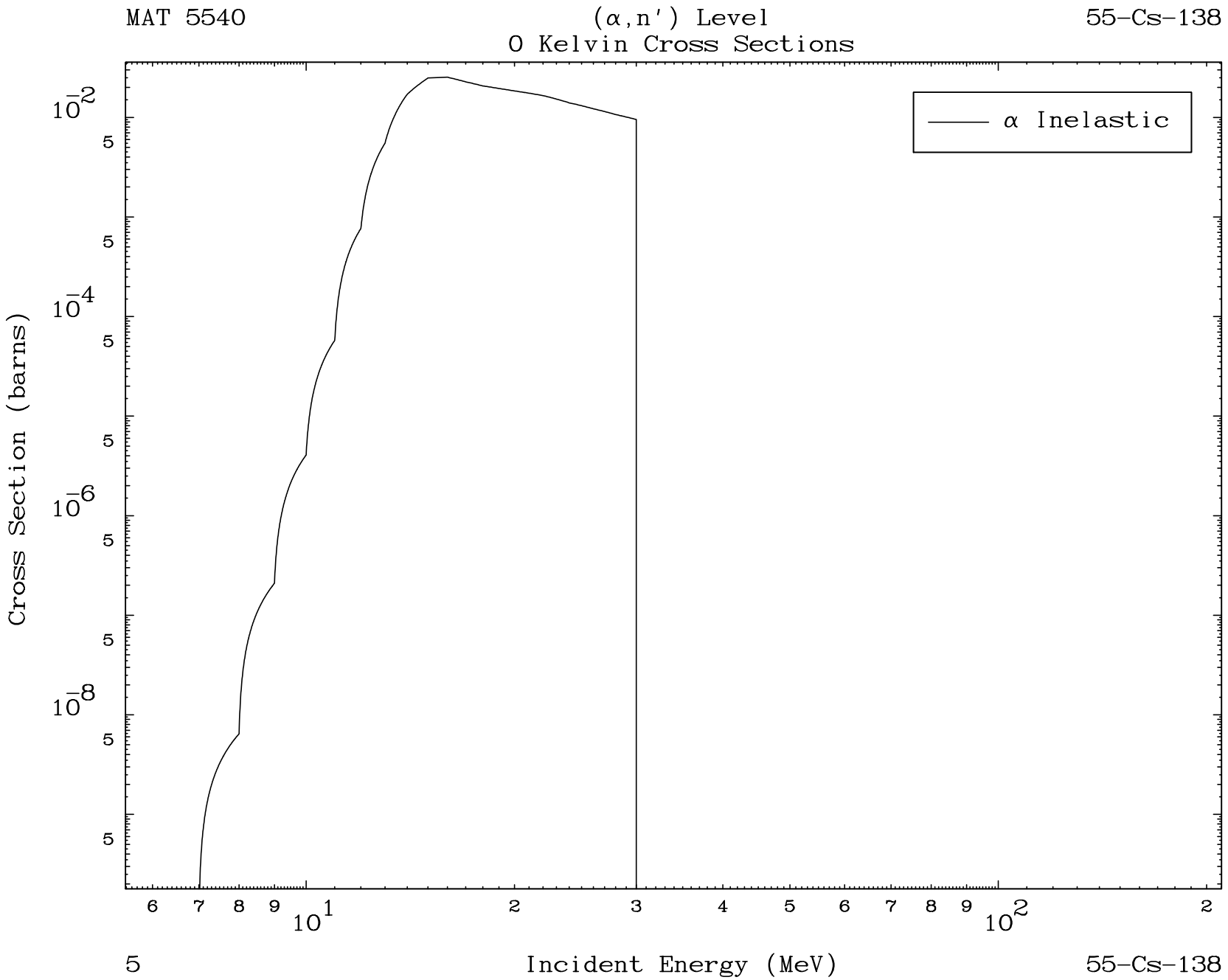
Press Mouse Button to Start

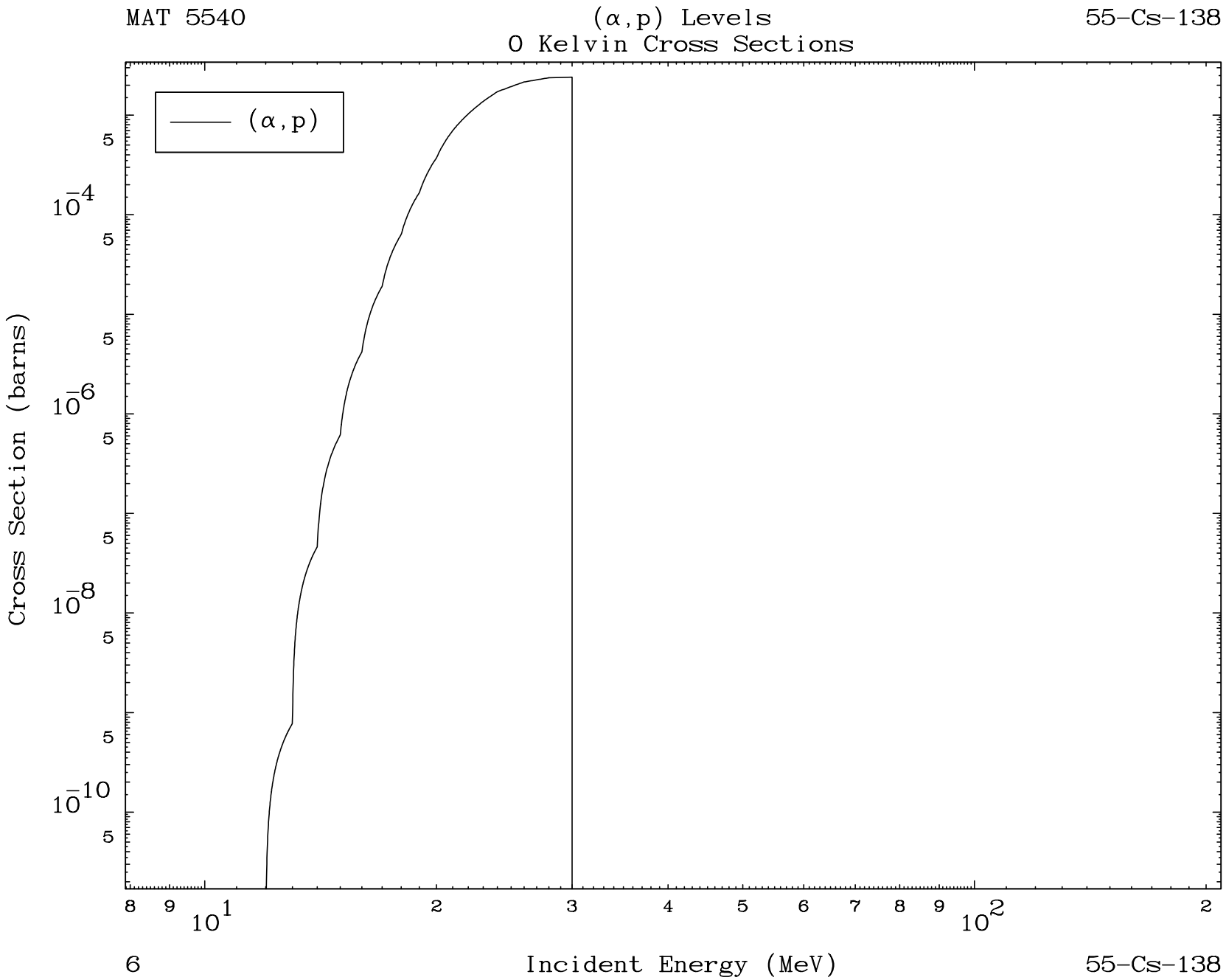

MAT 5540
α Major
55-Cs-138
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-138
1

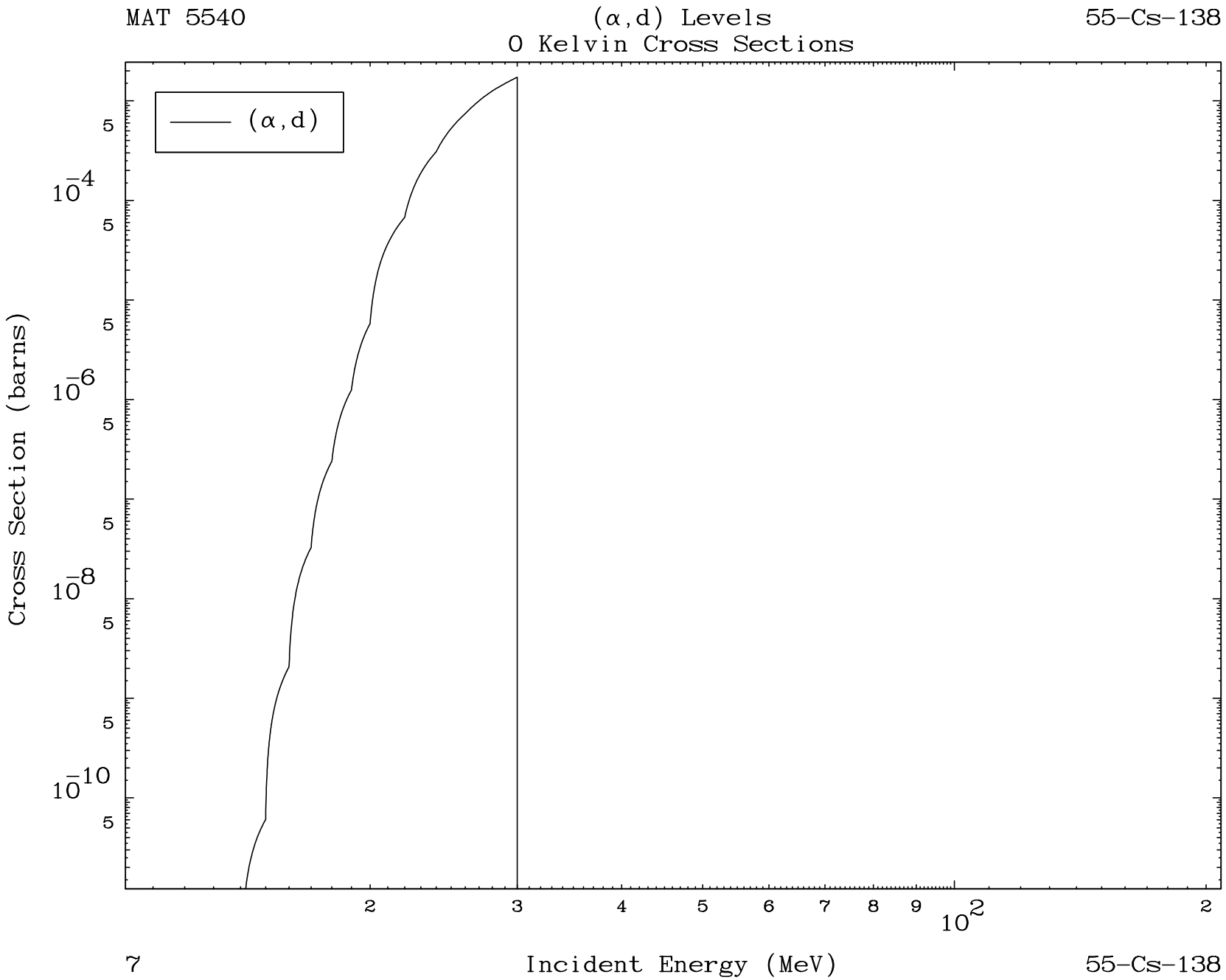

MAT 5540
α Neutron Production
0 Kelvin Cross Sections
55-Cs-138
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,4n)
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
55-Cs-138

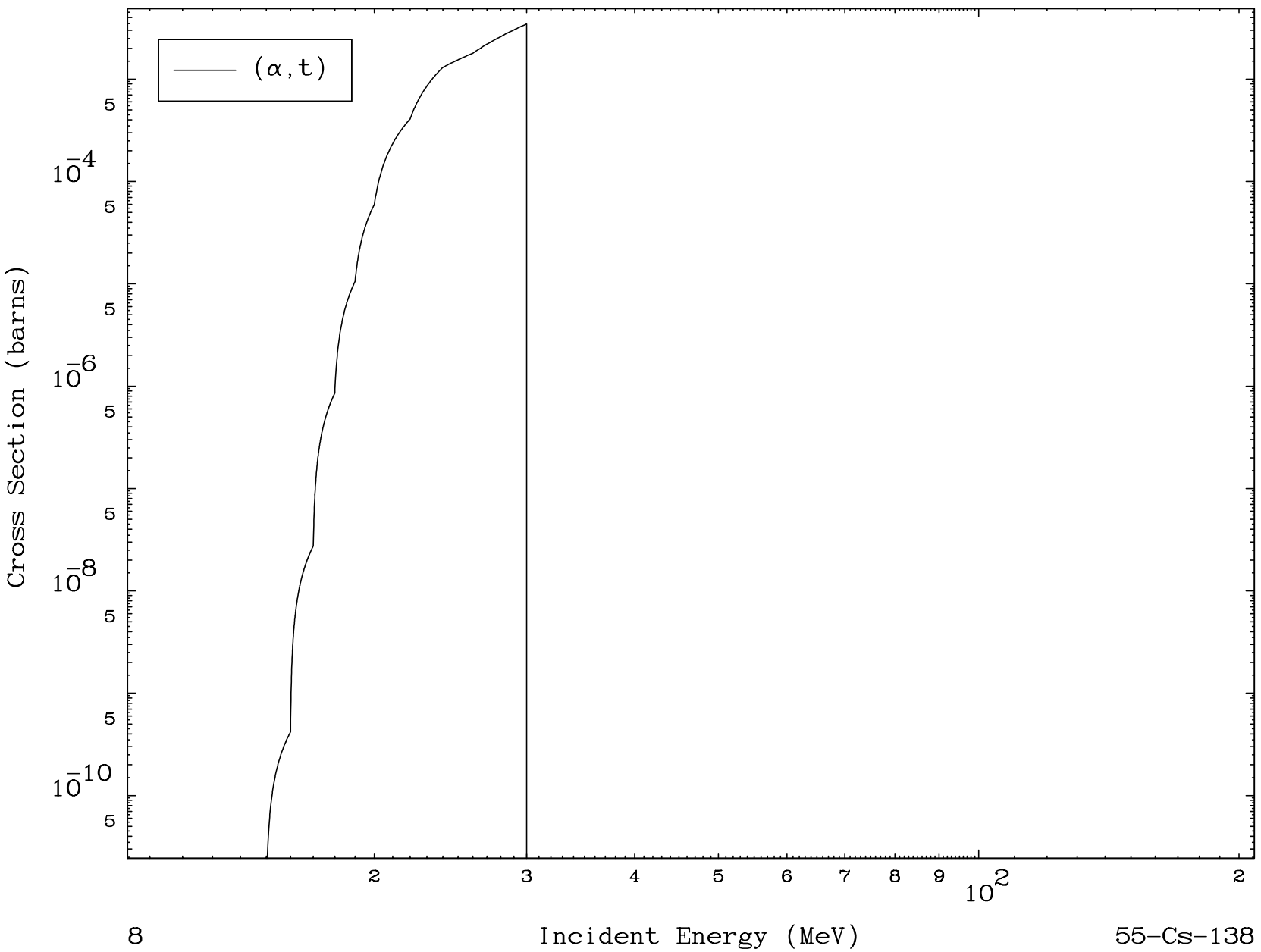

MAT 5540
α Charged Particle
0 Kelvin Cross Sections
55-Cs-138
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
55-Cs-138


MAT 5540
α Charged Particle
0 Kelvin Cross Sections
55-Cs-138
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,p) α
Cross Section (barns)
Incident Energy (MeV)
4
55-Cs-138

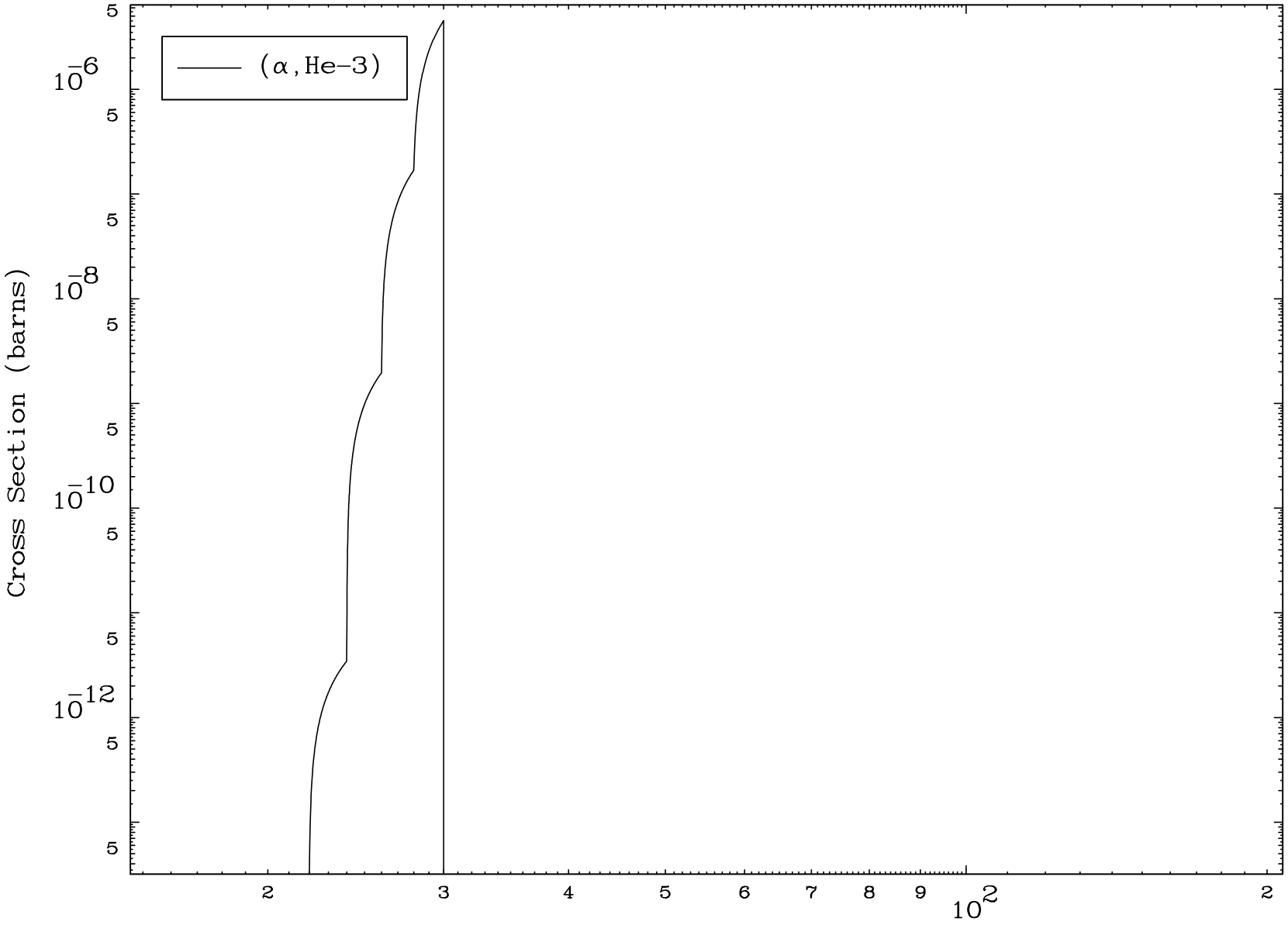

MAT 5540
(α,n') Level
55-Cs-138
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
10 1
10 2
5
55-Cs-138

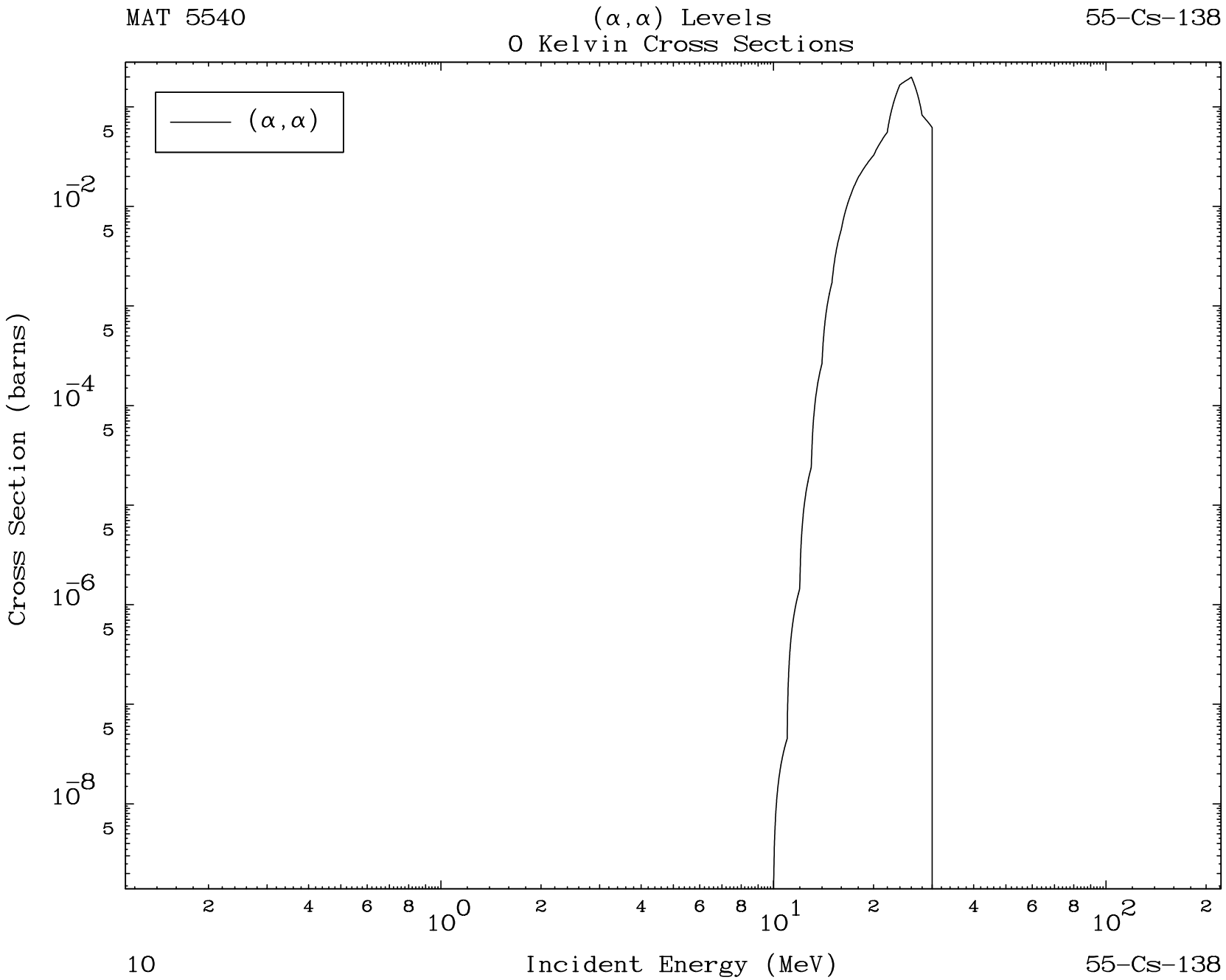

MAT 5540
(α,p) Levels
55-Cs-138
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
6
55-Cs-138

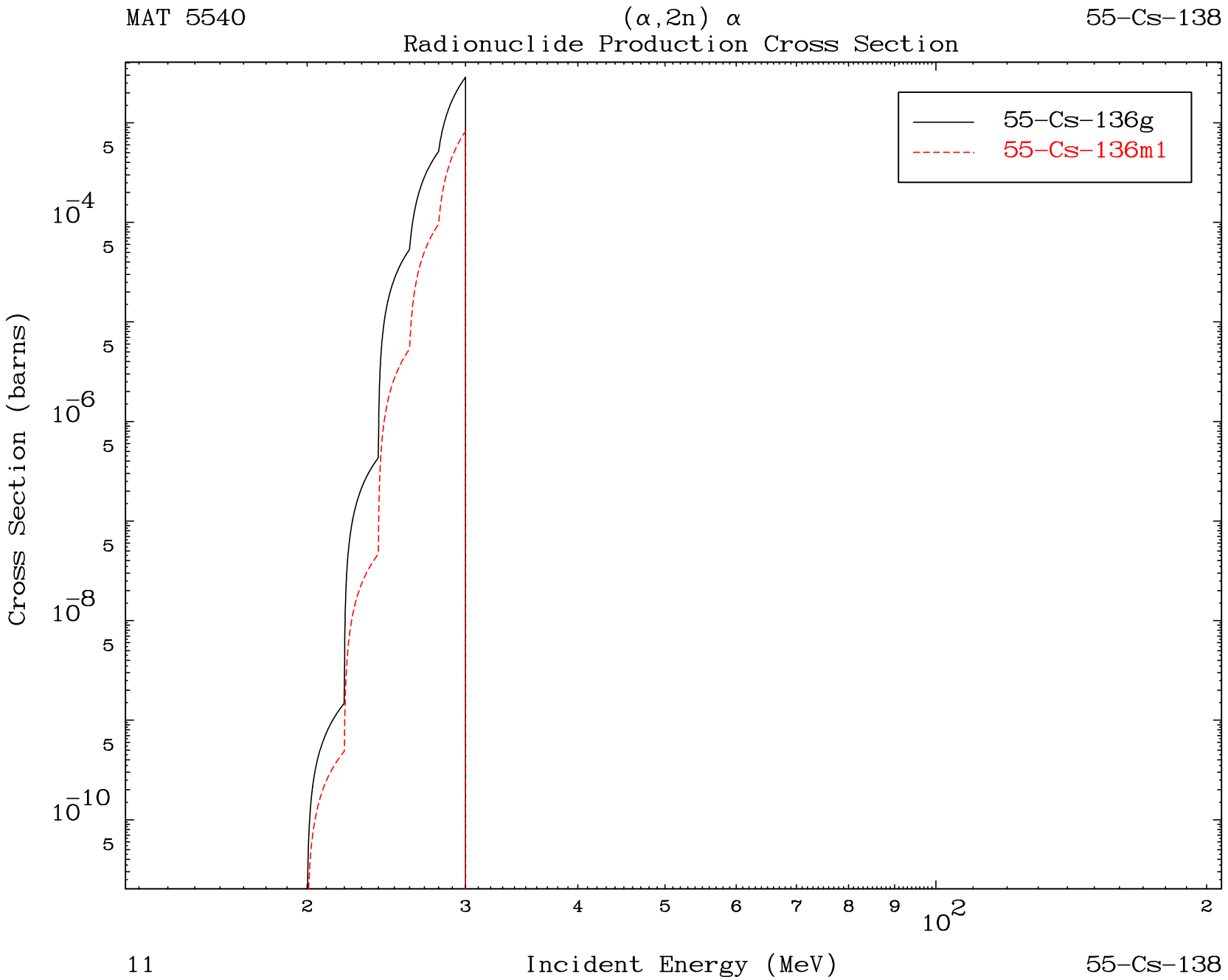

MAT 5540
(α,d) Levels
55-Cs-138
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
7
Incident Energy (MeV)
55-Cs-138

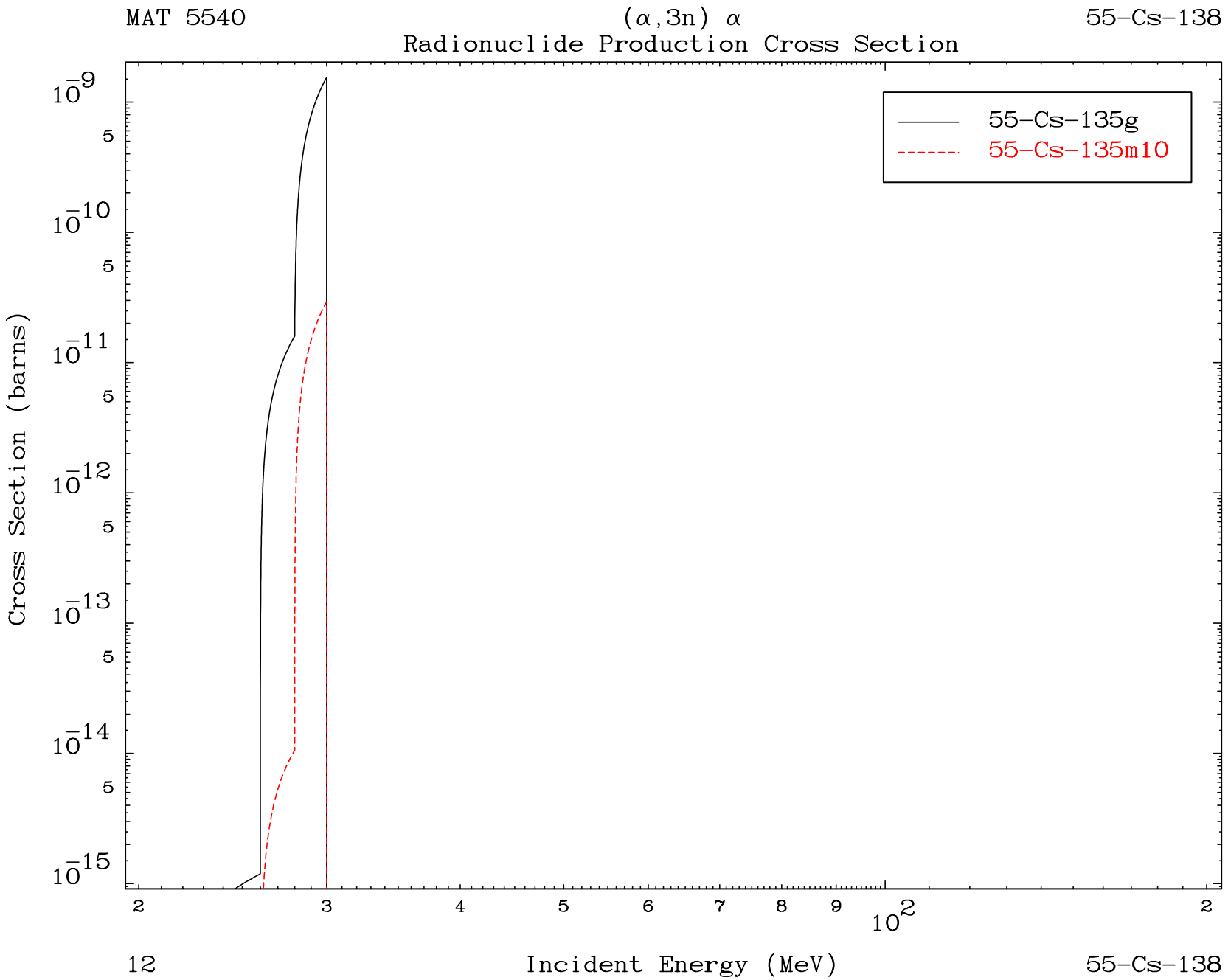

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

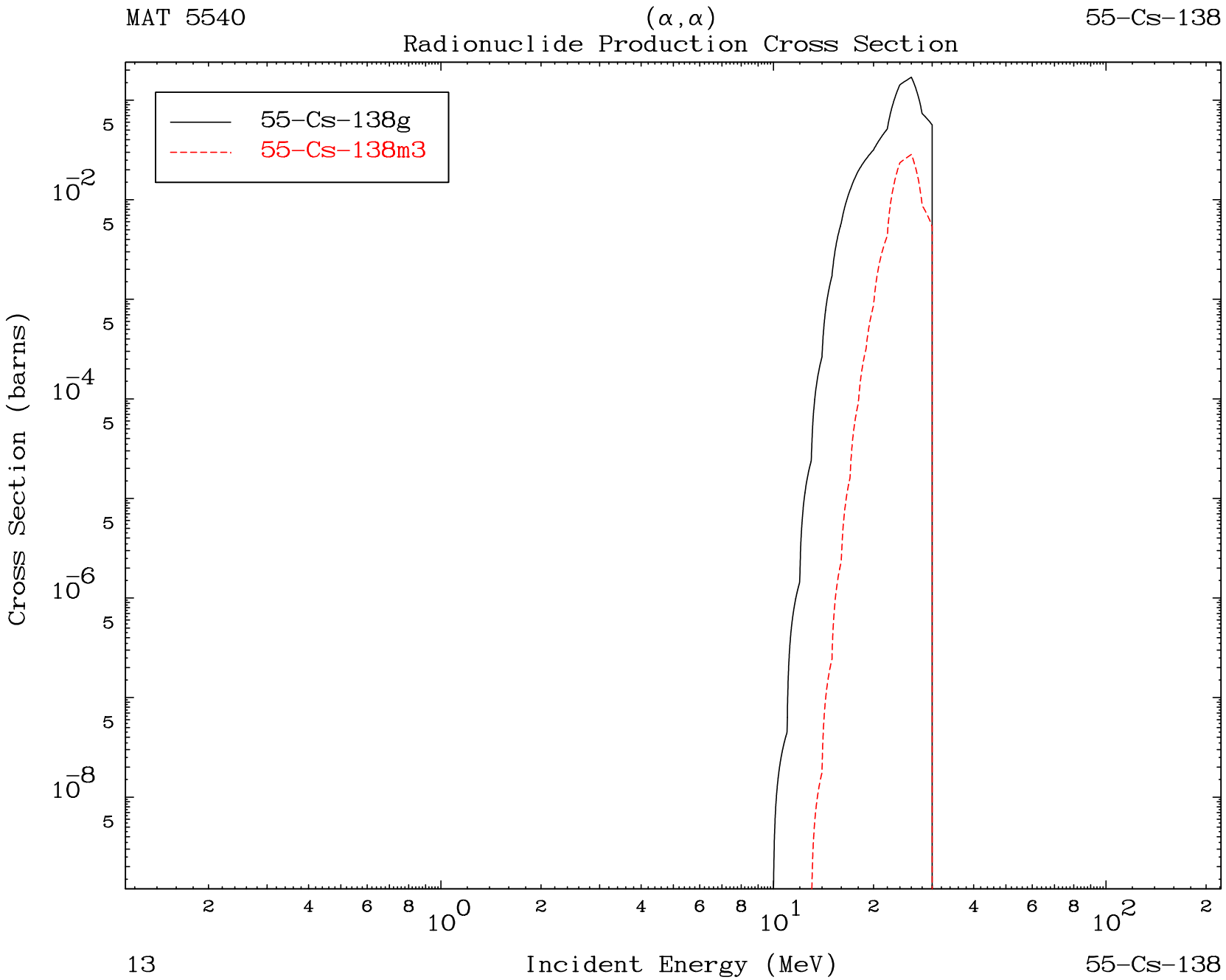
0 Kelvin Cross Sections

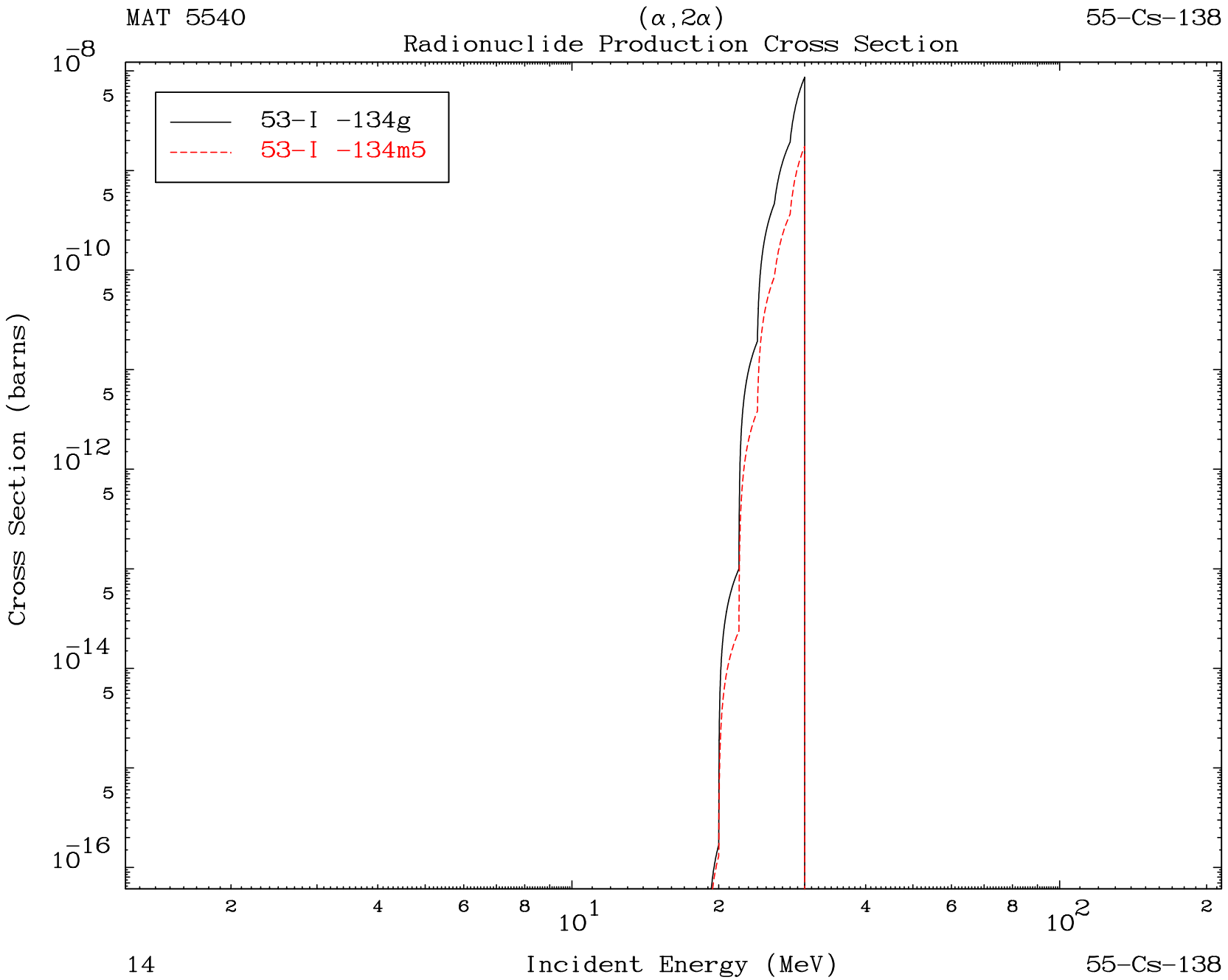



MAT 5540
(α,α) Levels
55-Cs-138
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10
Incident Energy (MeV)
55-Cs-138


MAT 5540
(α,2n) α
55-Cs-138
Radionuclide Production Cross Section
55-Cs-136g
55-Cs-136m1
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)
55-Cs-138


MAT 5540
(α,3n) α
55-Cs-138
Radionuclide Production Cross Section
55-Cs-135g
55-Cs-135m10
Cross Section (barns)
10^-9
10^-10
10^-11
10^-12
10^-13
10^-14
10^-15
2
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
55-Cs-138


MAT 5540
(α,α)
55-Cs-138
Radionuclide Production Cross Section
55-Cs-138g
55-Cs-138m3
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
13
55-Cs-138


MAT 5540
(α,2α)
55-Cs-138
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
Incident Energy (MeV)
14
55-Cs-138