Program EVALPLOT
(Version 2021-1)
by
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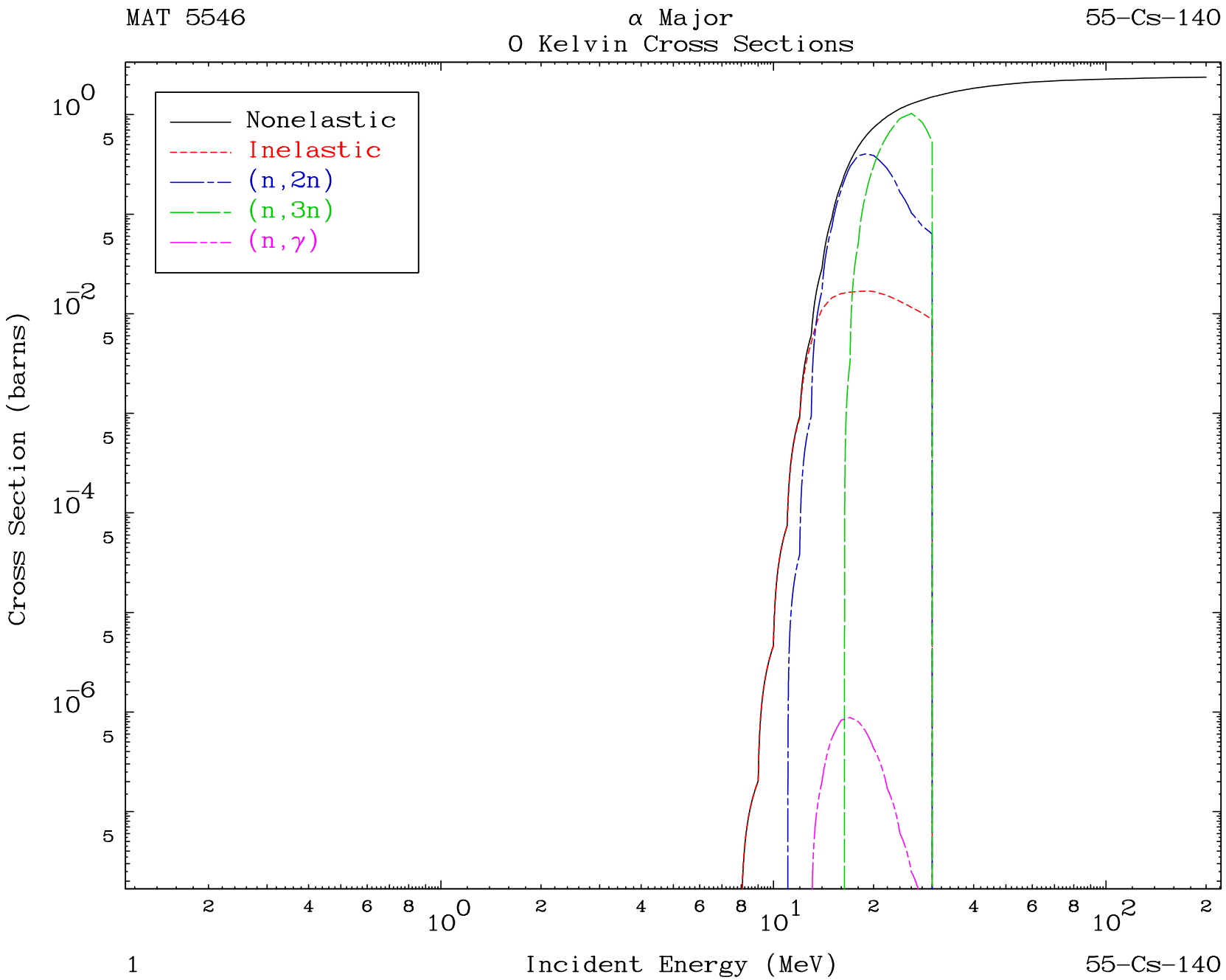
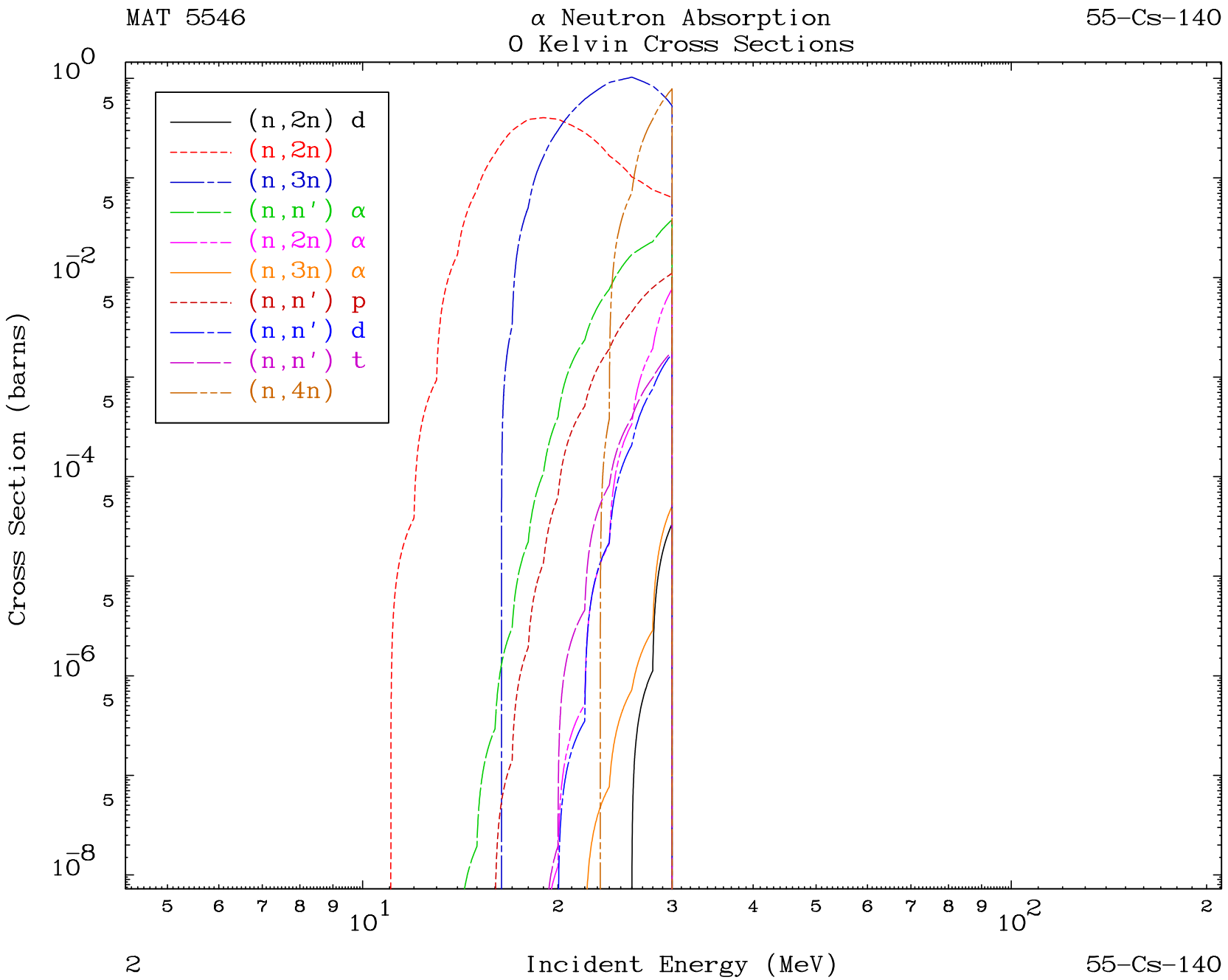
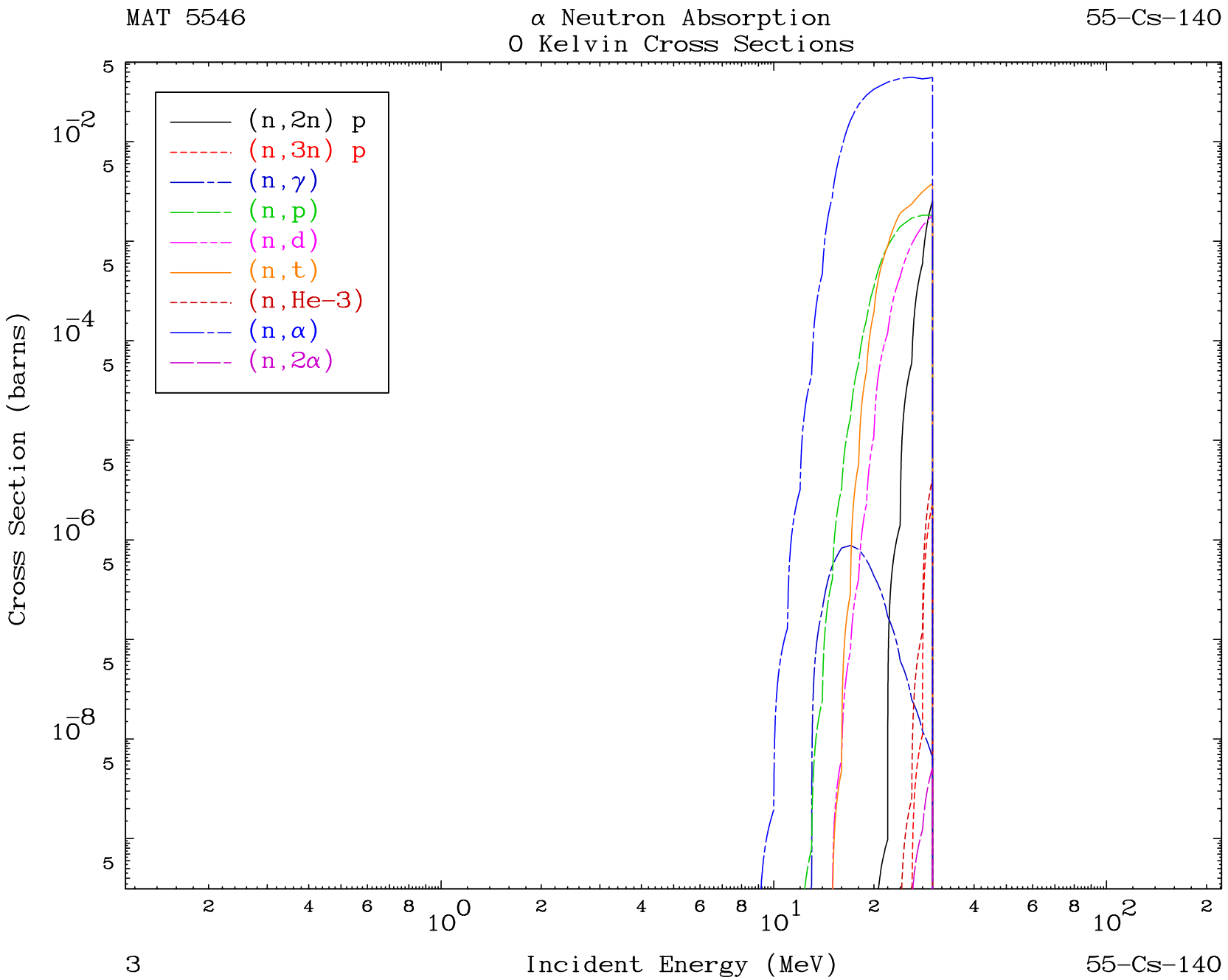
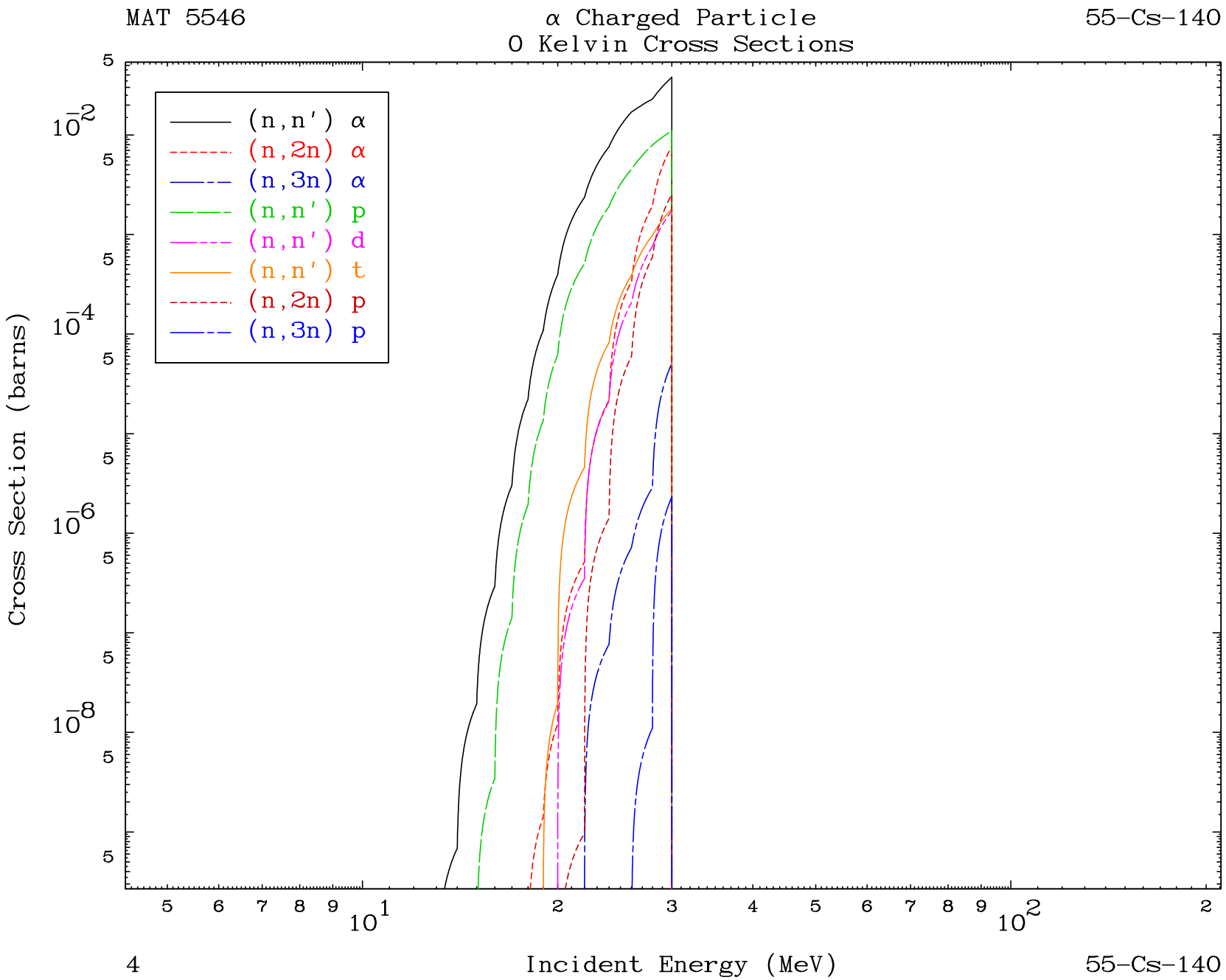
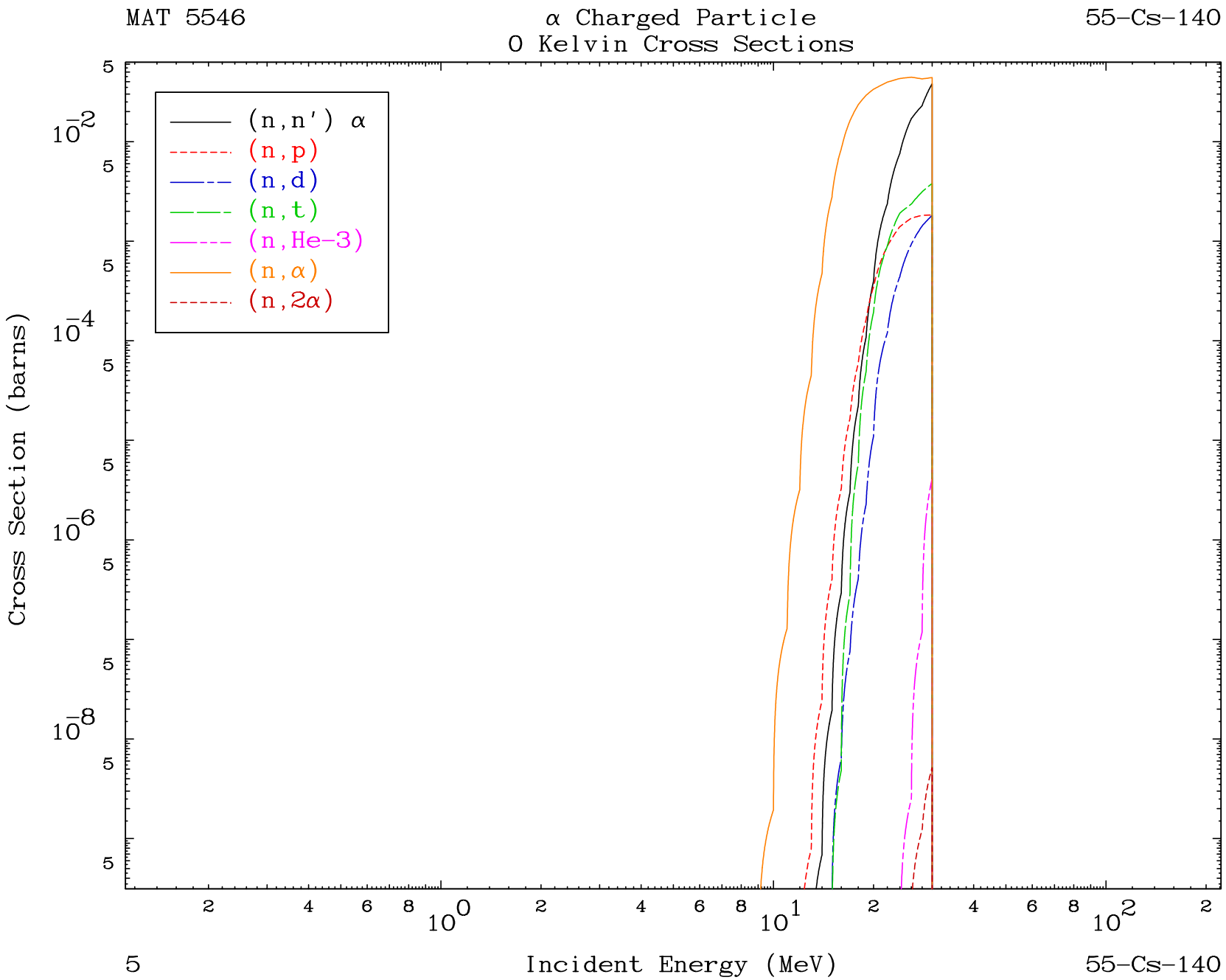
Press Mouse Button to Start

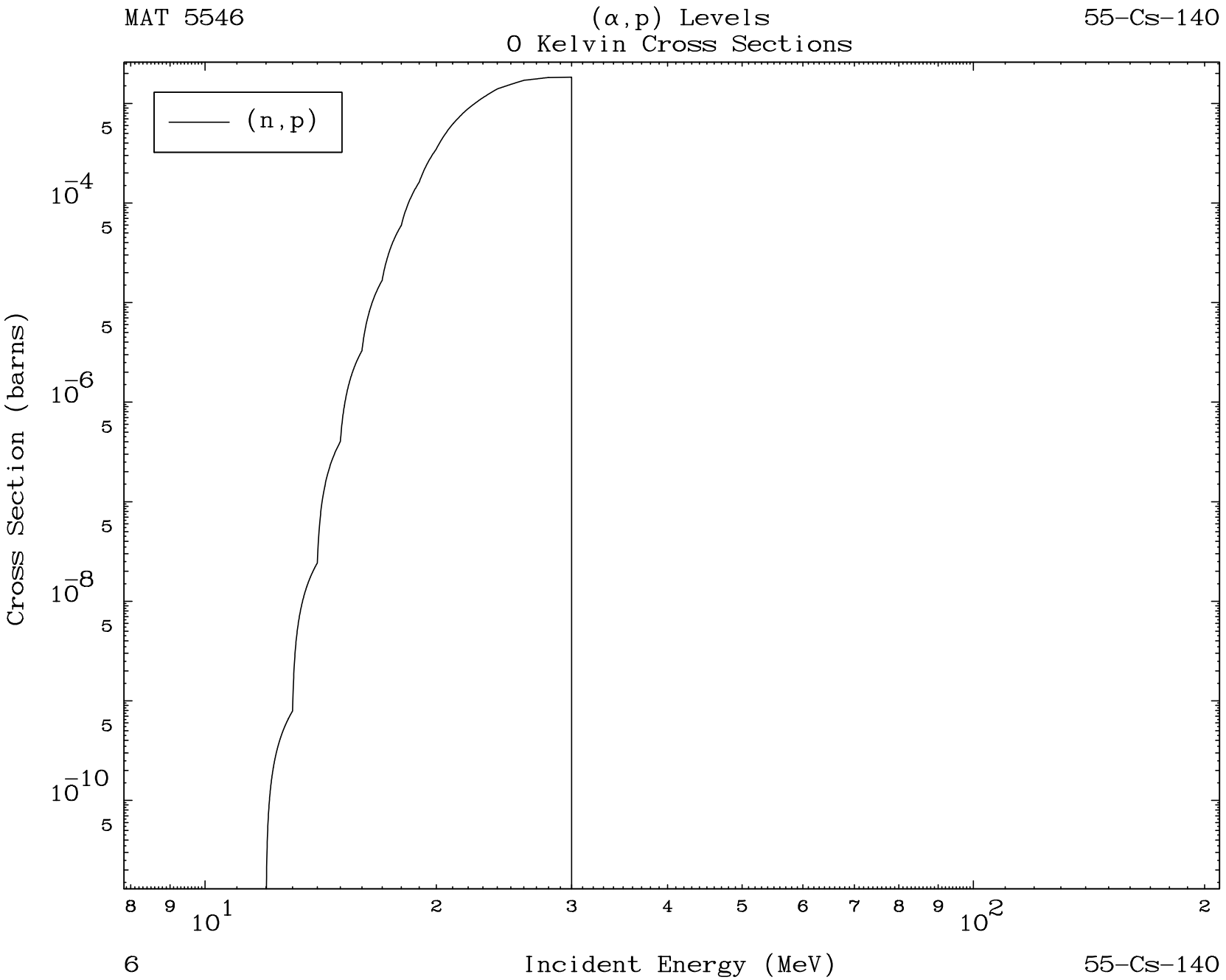

MAT 5546
α Major
55-Cs-140
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-140
1

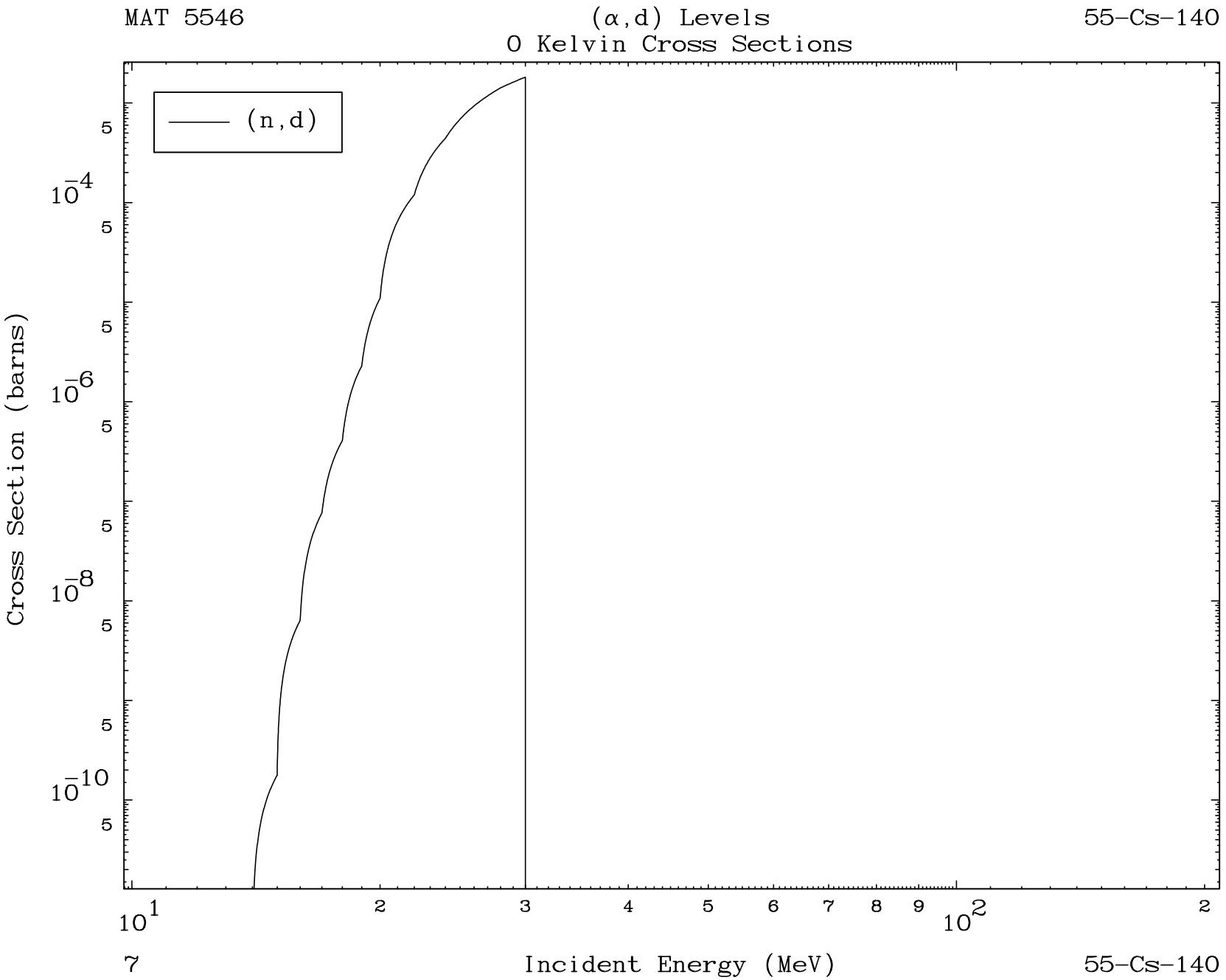

MAT 5546
α Neutron Absorption
0 Kelvin Cross Sections
55-Cs-140
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,4n)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-140

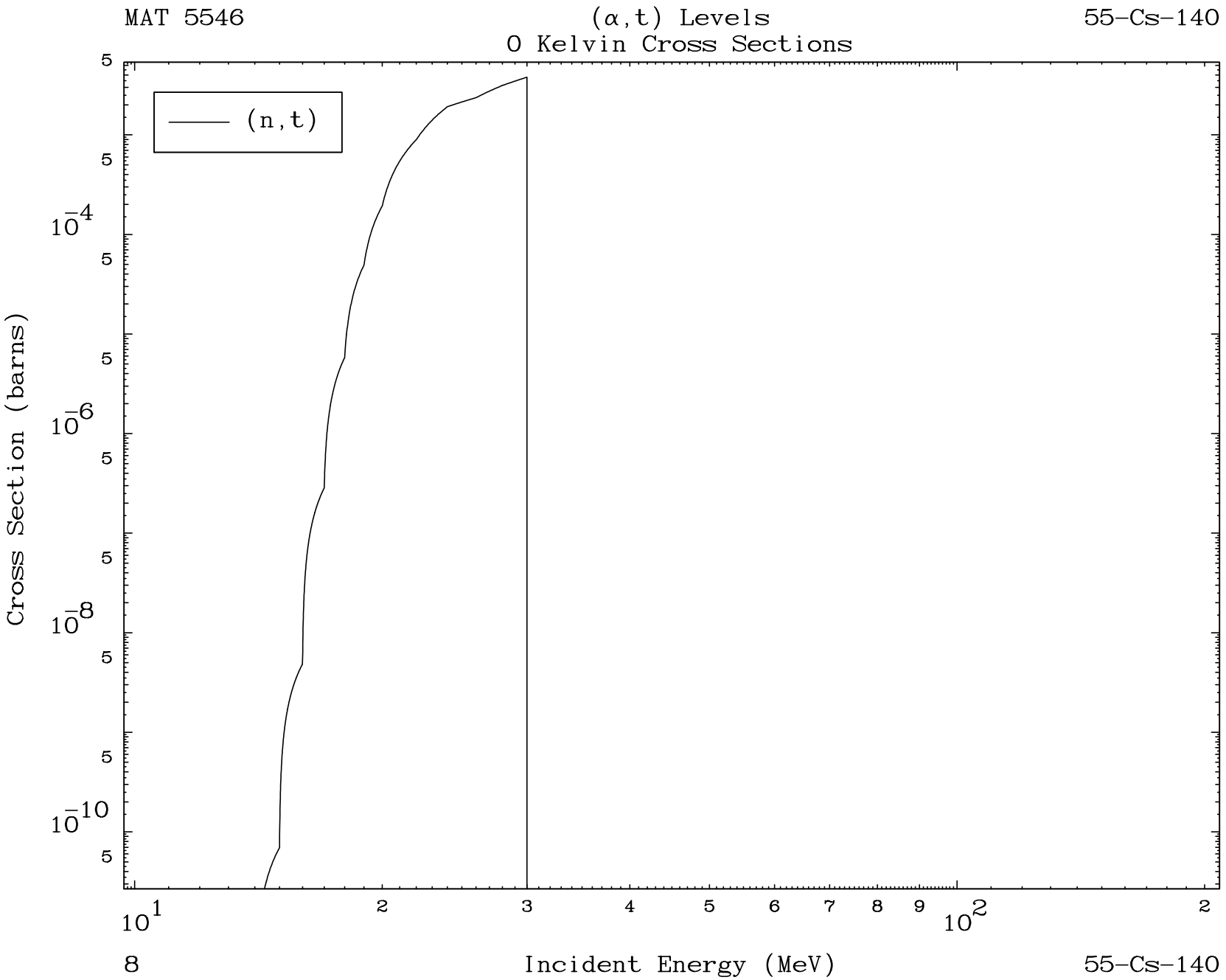

MAT 5546
α Neutron Absorption
0 Kelvin Cross Sections
55-Cs-140
(n,2n) p
(n,3n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
3
55-Cs-140

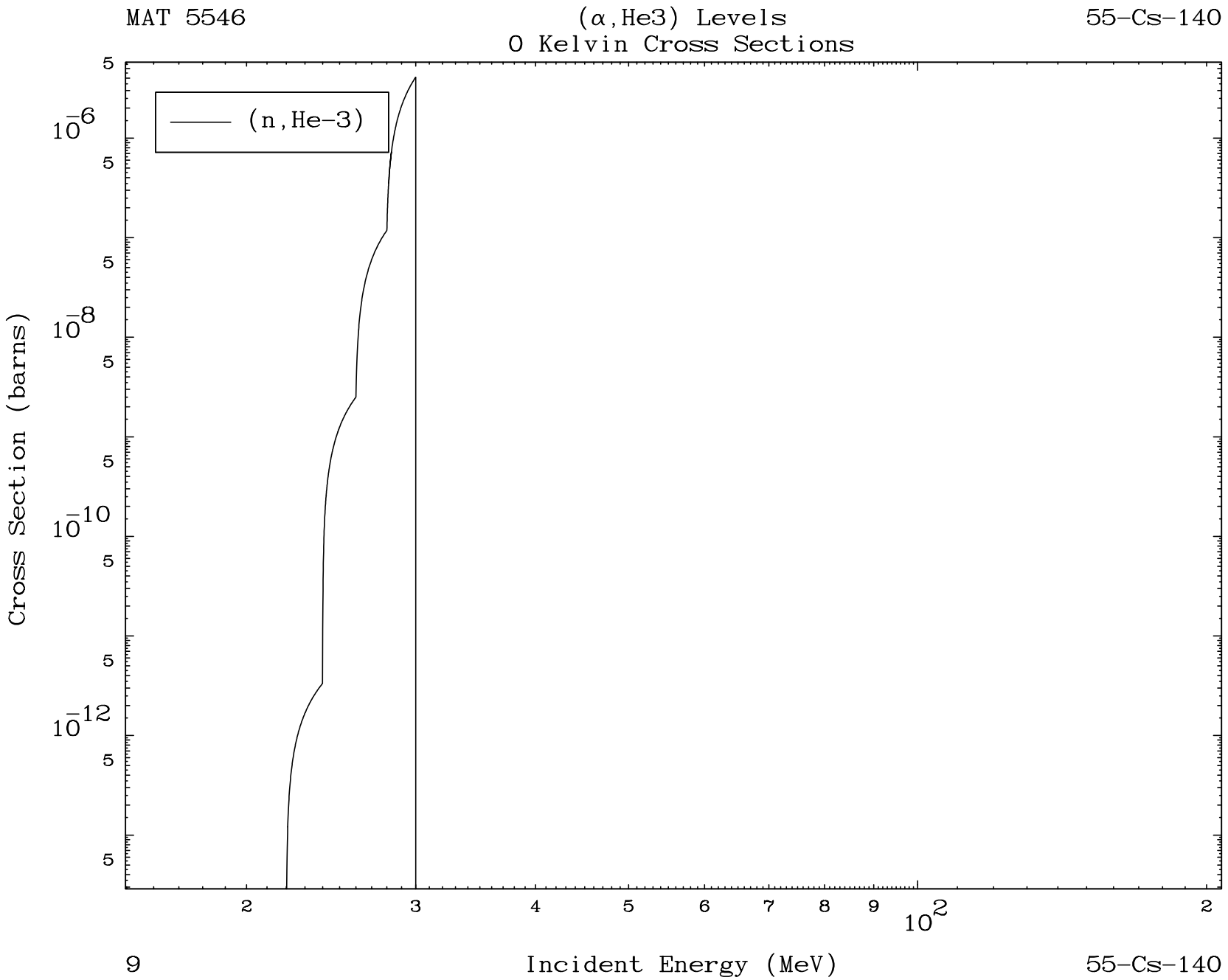

MAT 5546
α Charged Particle
0 Kelvin Cross Sections
55-Cs-140
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
55-Cs-140

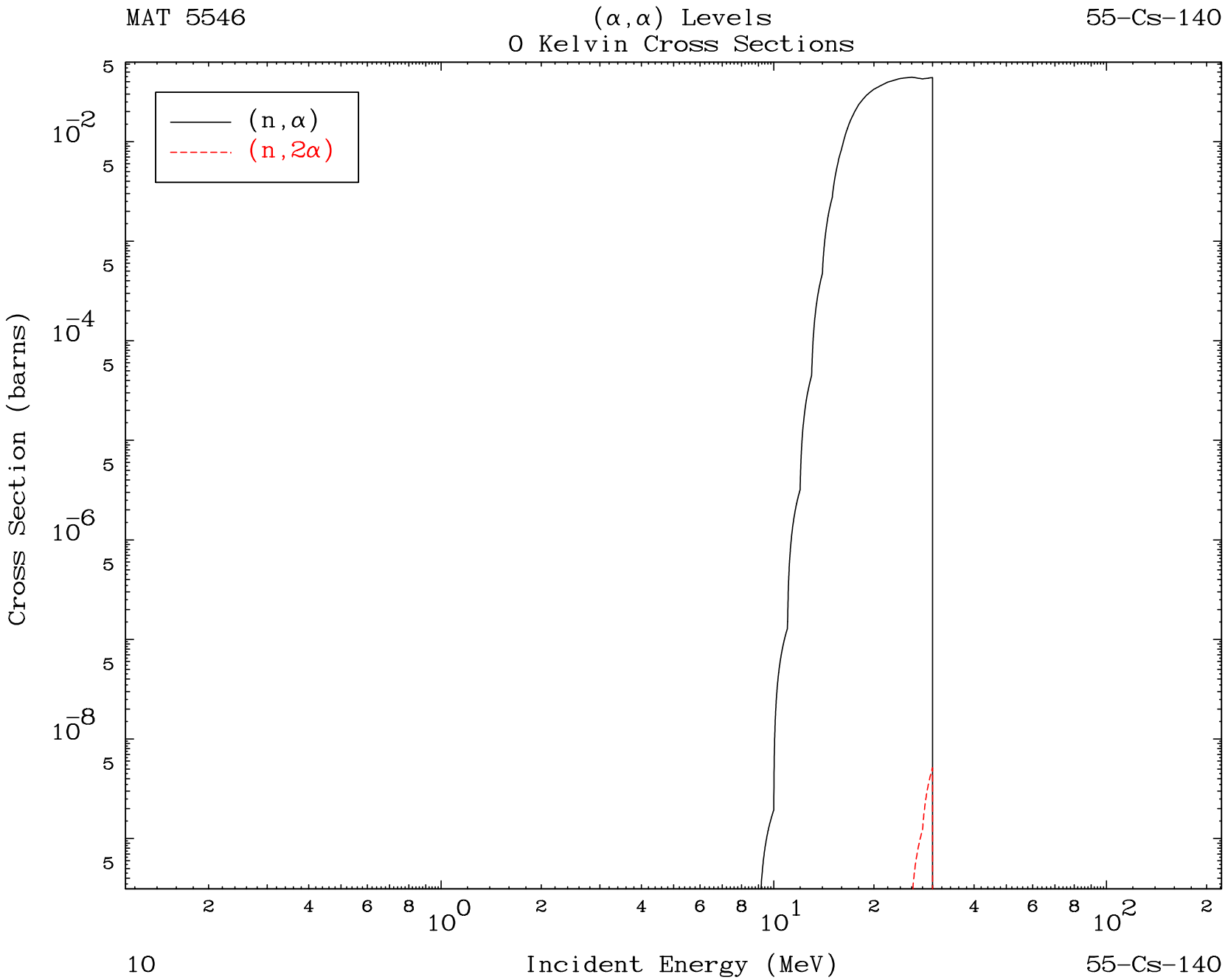

MAT 5546
α Charged Particle
0 Kelvin Cross Sections
55-Cs-140
(n,n') α
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-140

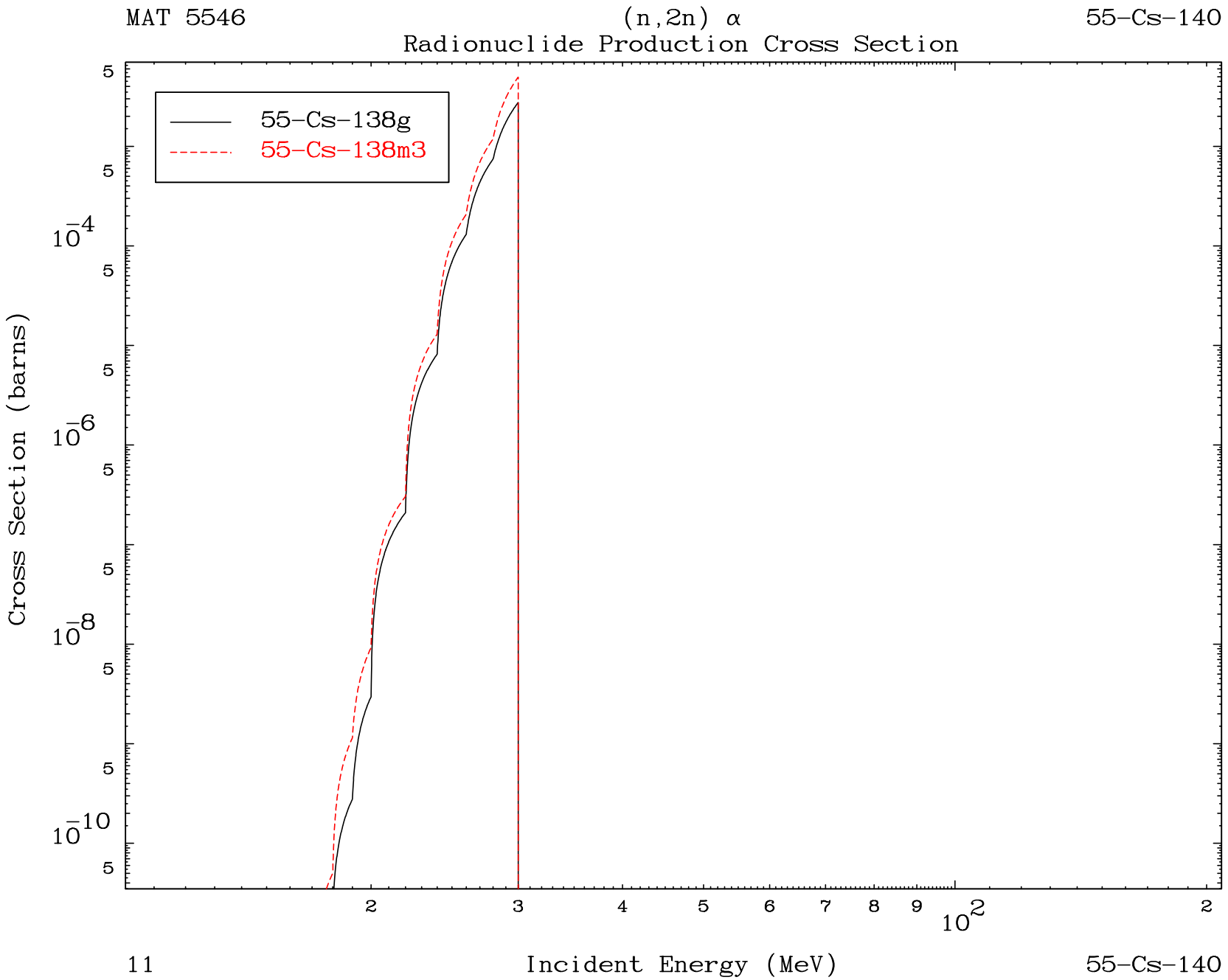

MAT 5546
(α,p) Levels
55-Cs-140
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
6
Incident Energy (MeV)
55-Cs-140

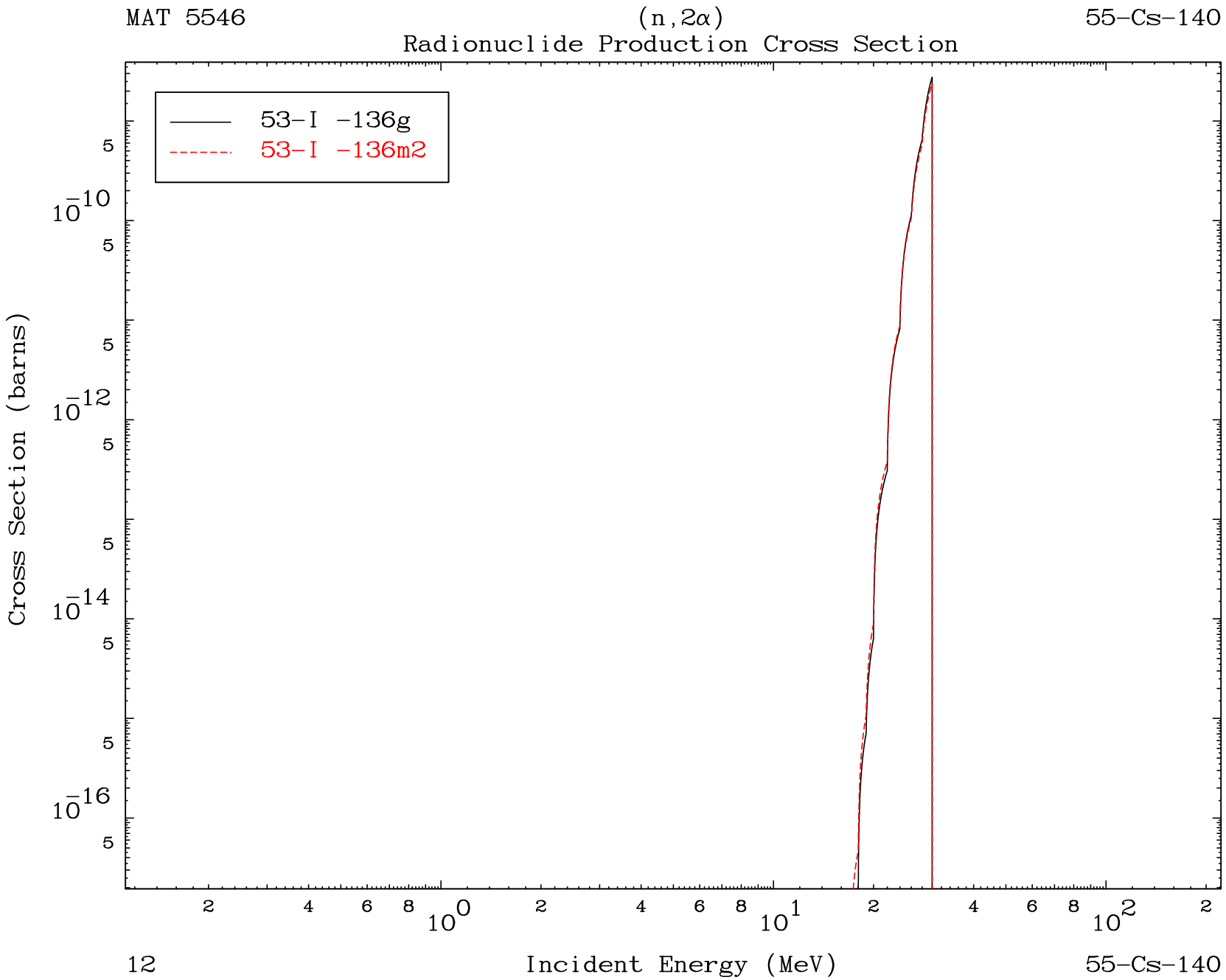

MAT 5546
(α,d) Levels
55-Cs-140
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
7
55-Cs-140


MAT 5546
(α,t) Levels
55-Cs-140
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-140
8


MAT 5546
(α,He3) Levels
55-Cs-140
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
Incident Energy (MeV)
10^2
9
55-Cs-140


MAT 5546
(α,α) Levels
55-Cs-140
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-140


MAT 5546
(n,2n) α
55-Cs-140
Radionuclide Production Cross Section
55-Cs-138g
55-Cs-138m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
6
7
8
9
10^2
11
Incident Energy (MeV)
55-Cs-140


MAT 5546
(n,2α)
55-Cs-140
Radionuclide Production Cross Section
53-I -136g
53-I -136m2
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
10^0
10^1
10^2
Incident Energy (MeV)
12
55-Cs-140