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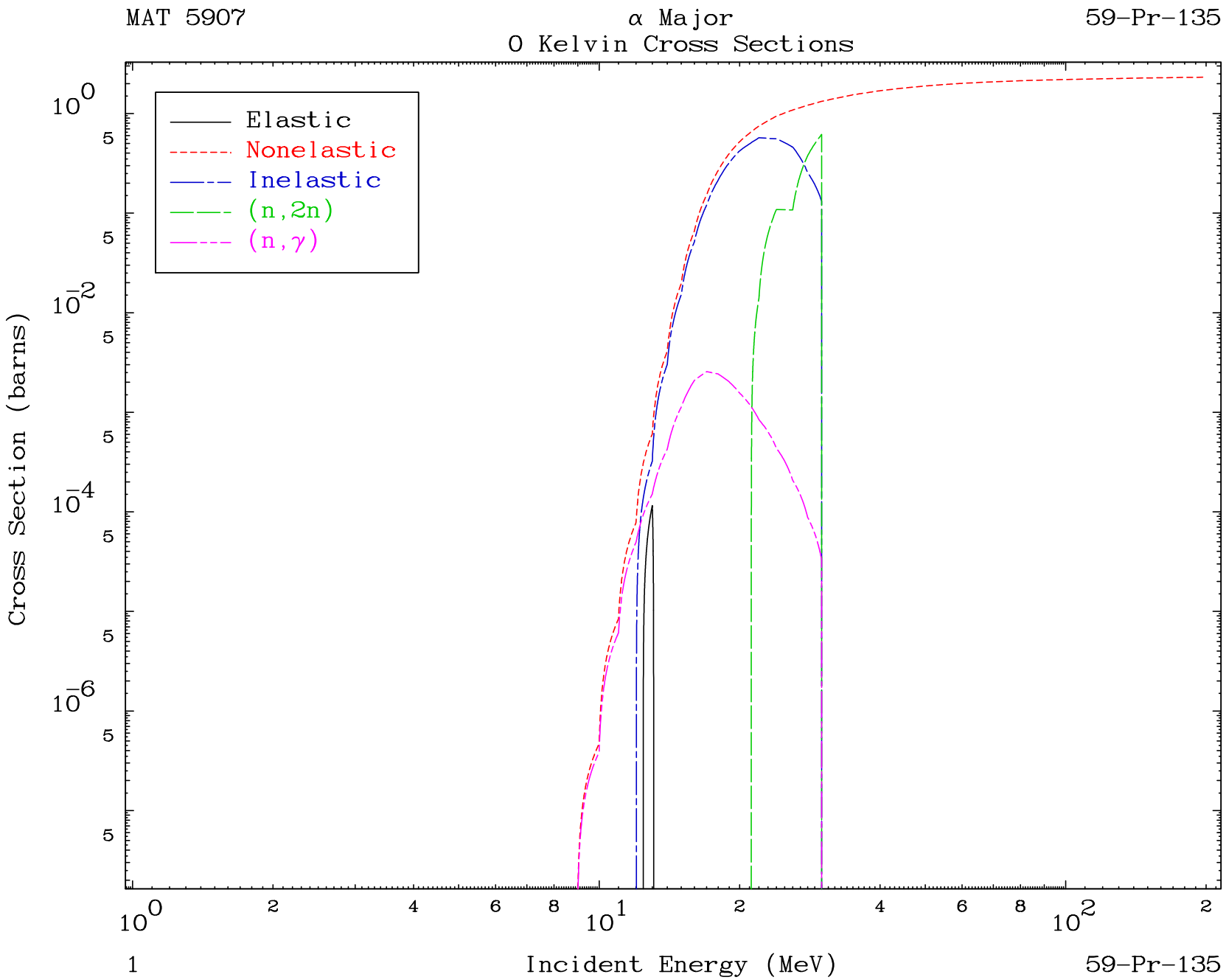
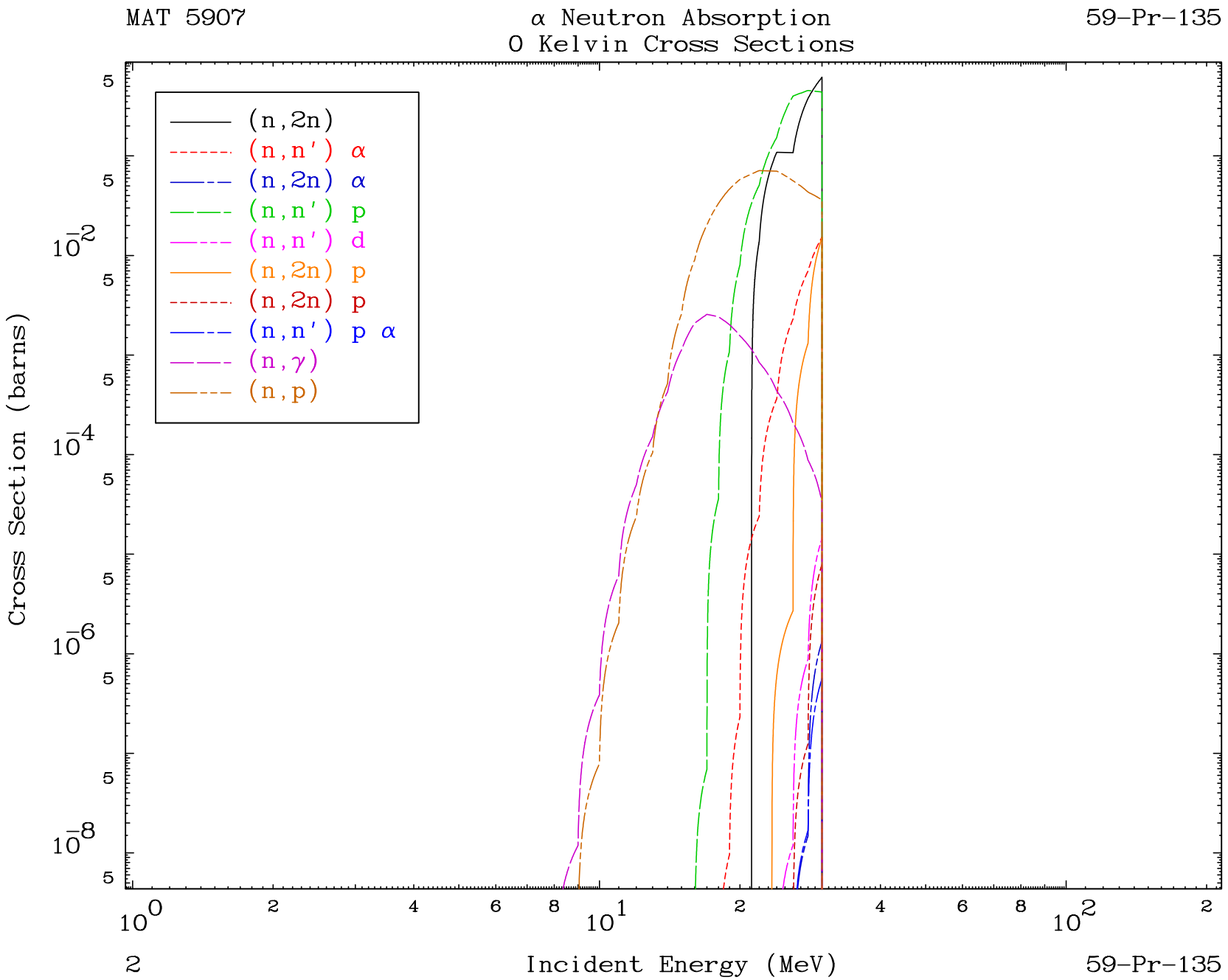
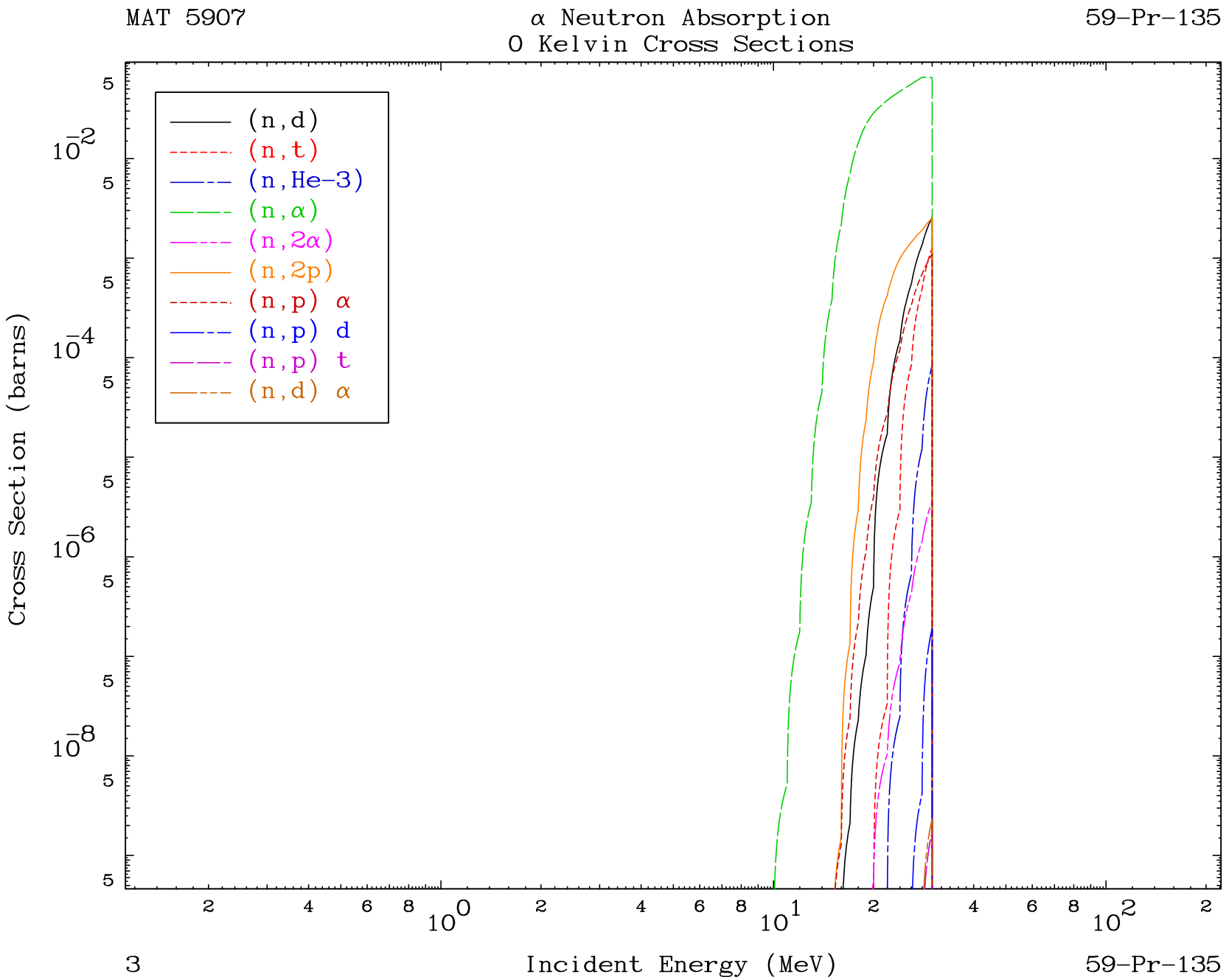
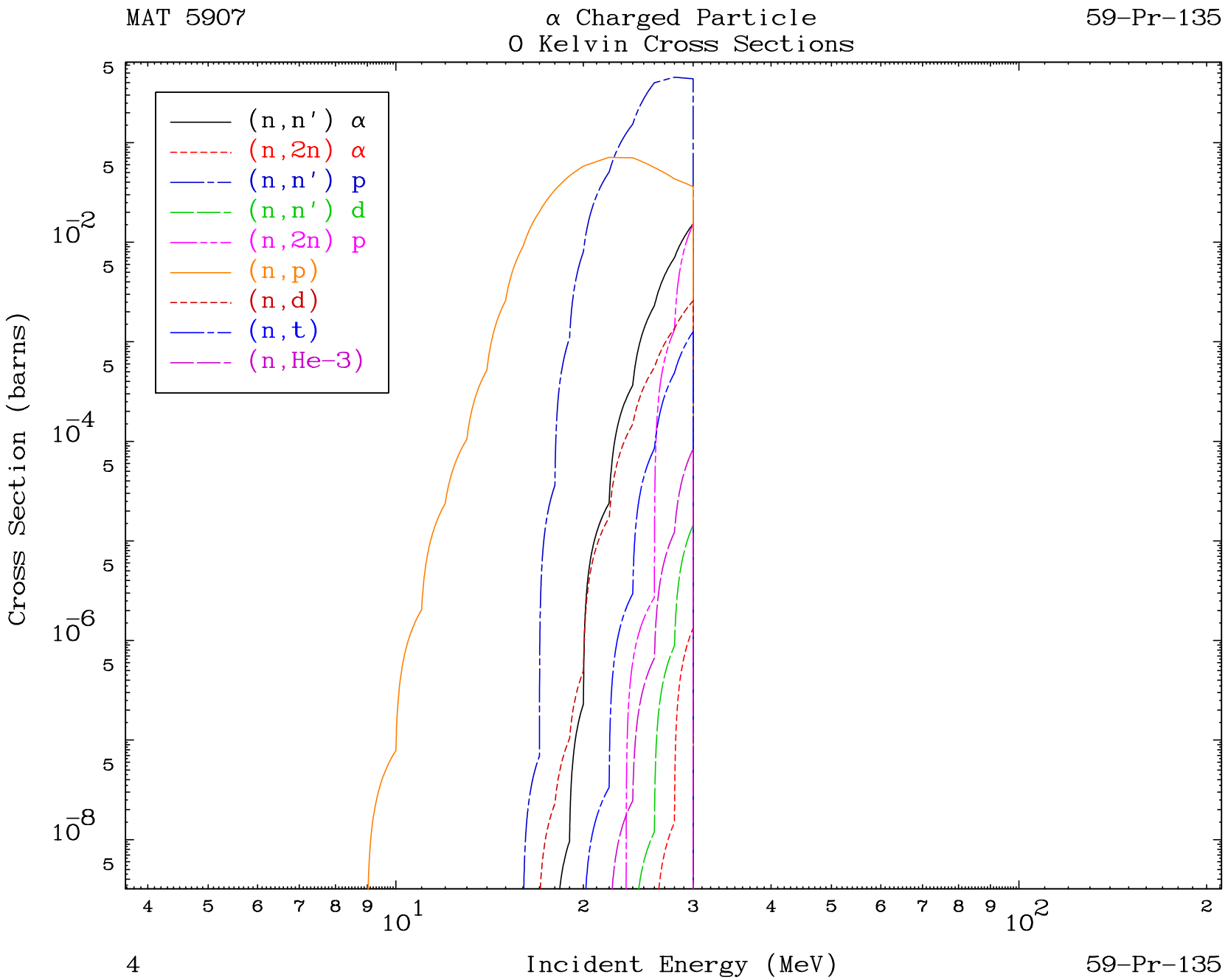
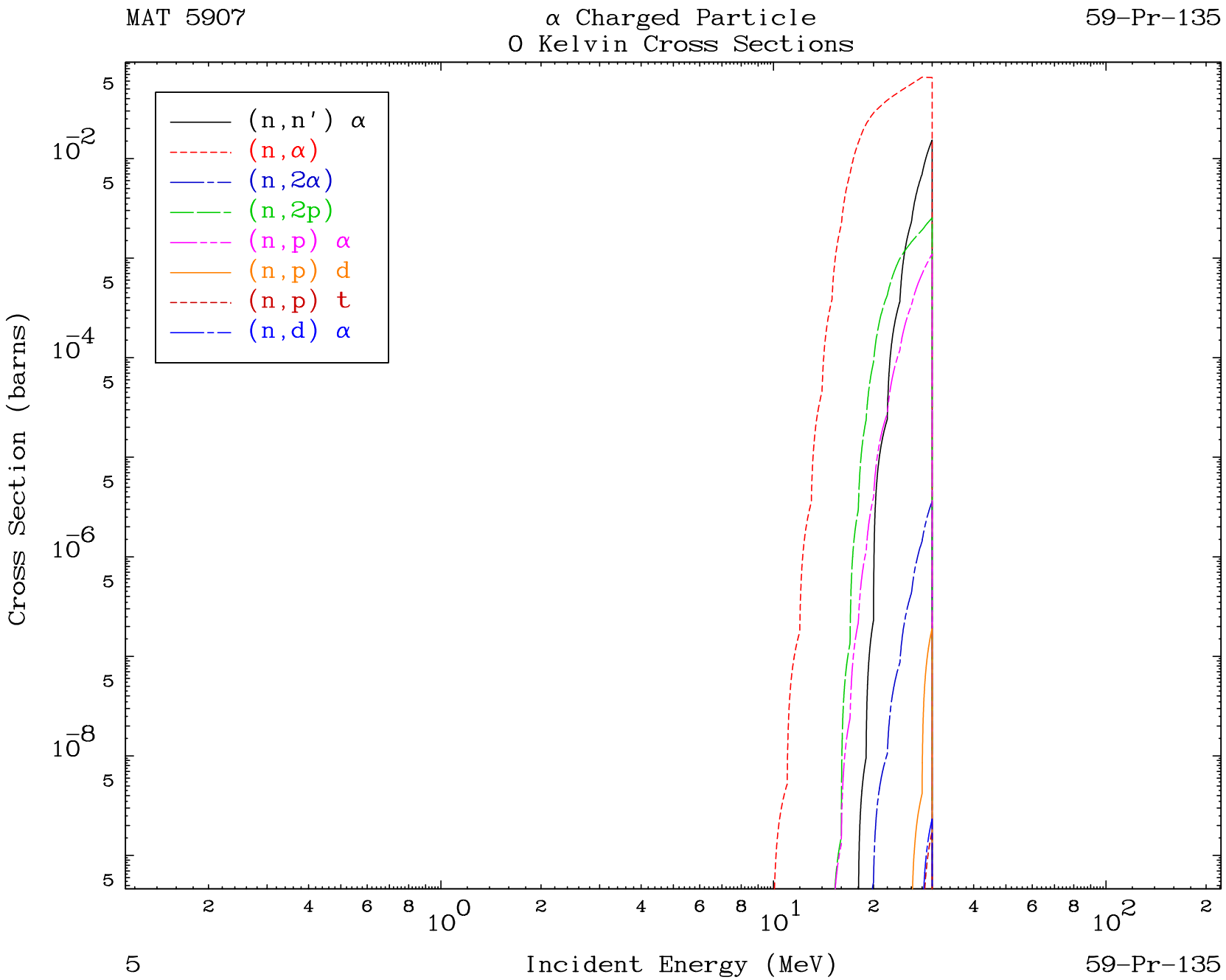
Press Mouse Button to Start

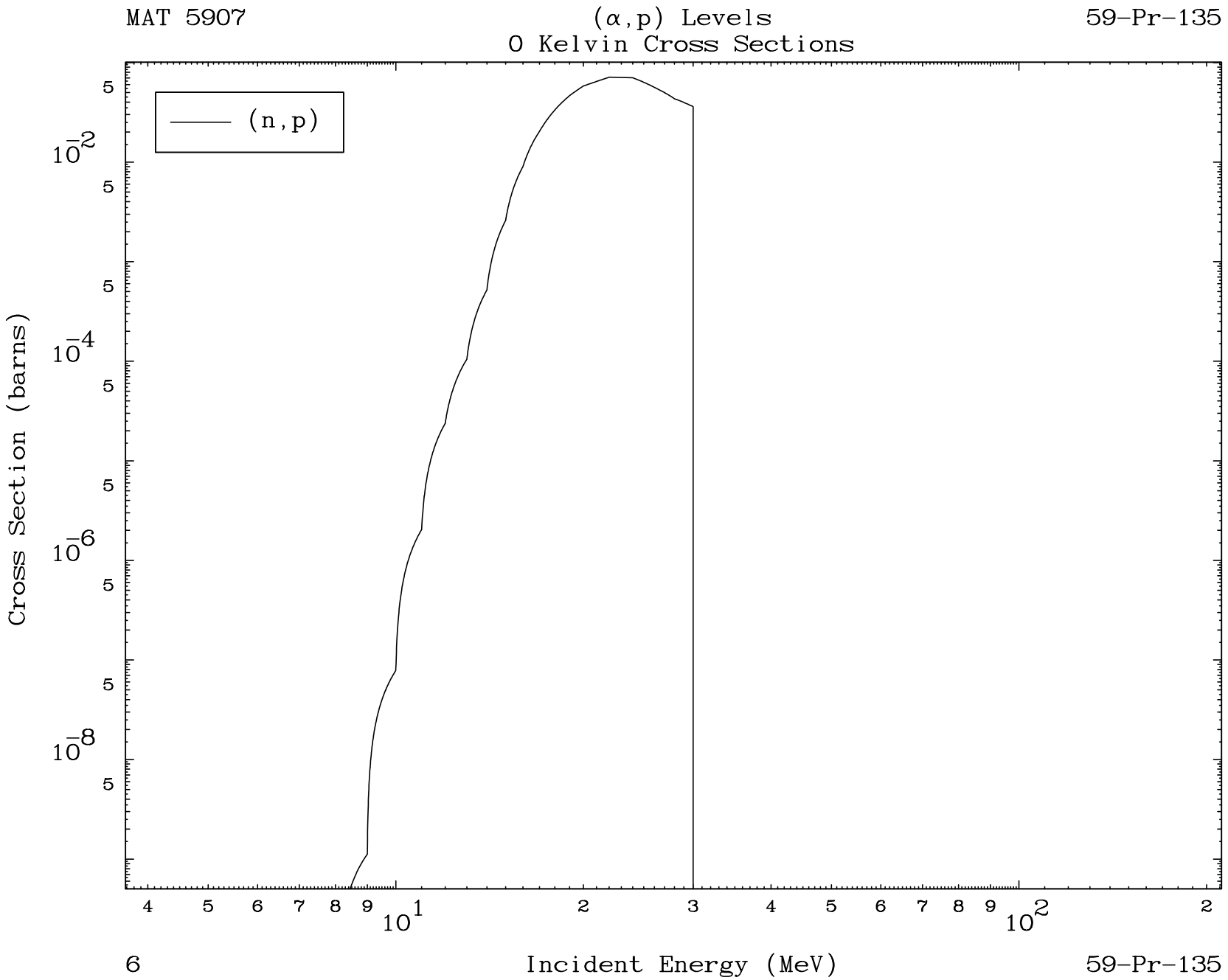

MAT 5907
α Major
59-Pr-135
0 Kelvin Cross Sections
Elastic
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
59-Pr-135

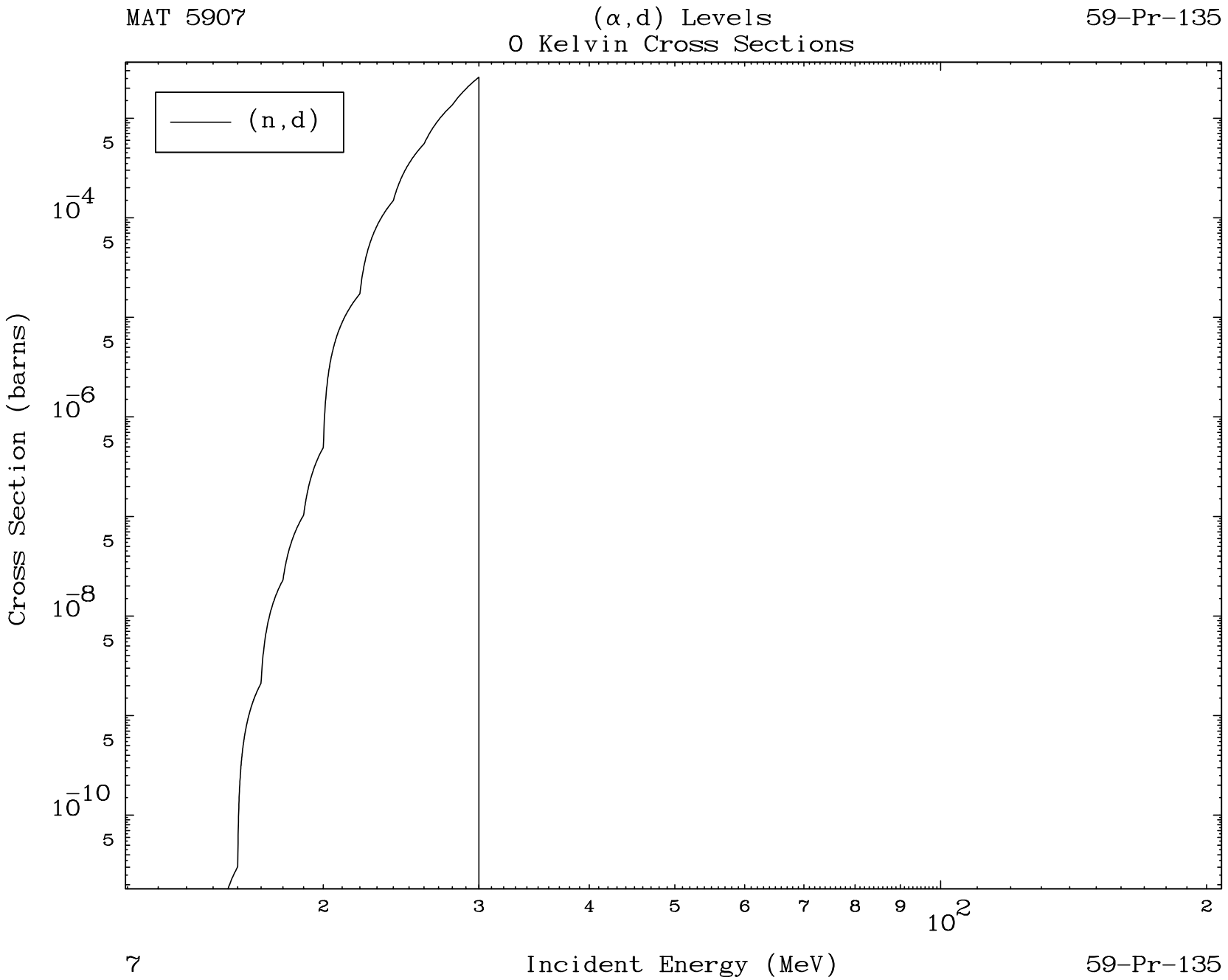

MAT 5907
α Neutron Absorption
0 Kelvin Cross Sections
59-Pr-135
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
59-Pr-135

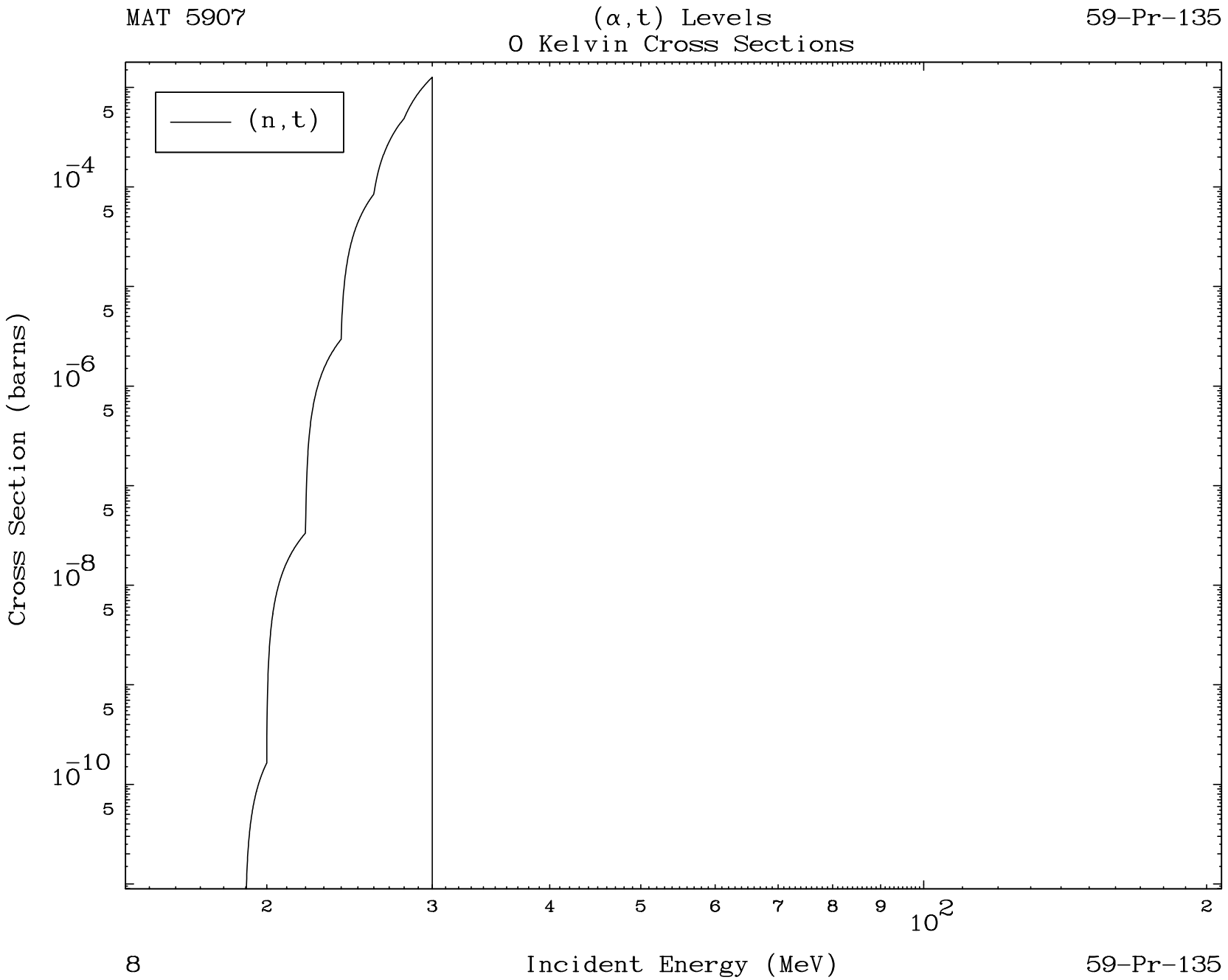

MAT 5907
α Neutron Absorption
0 Kelvin Cross Sections
59-Pr-135
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
59-Pr-135

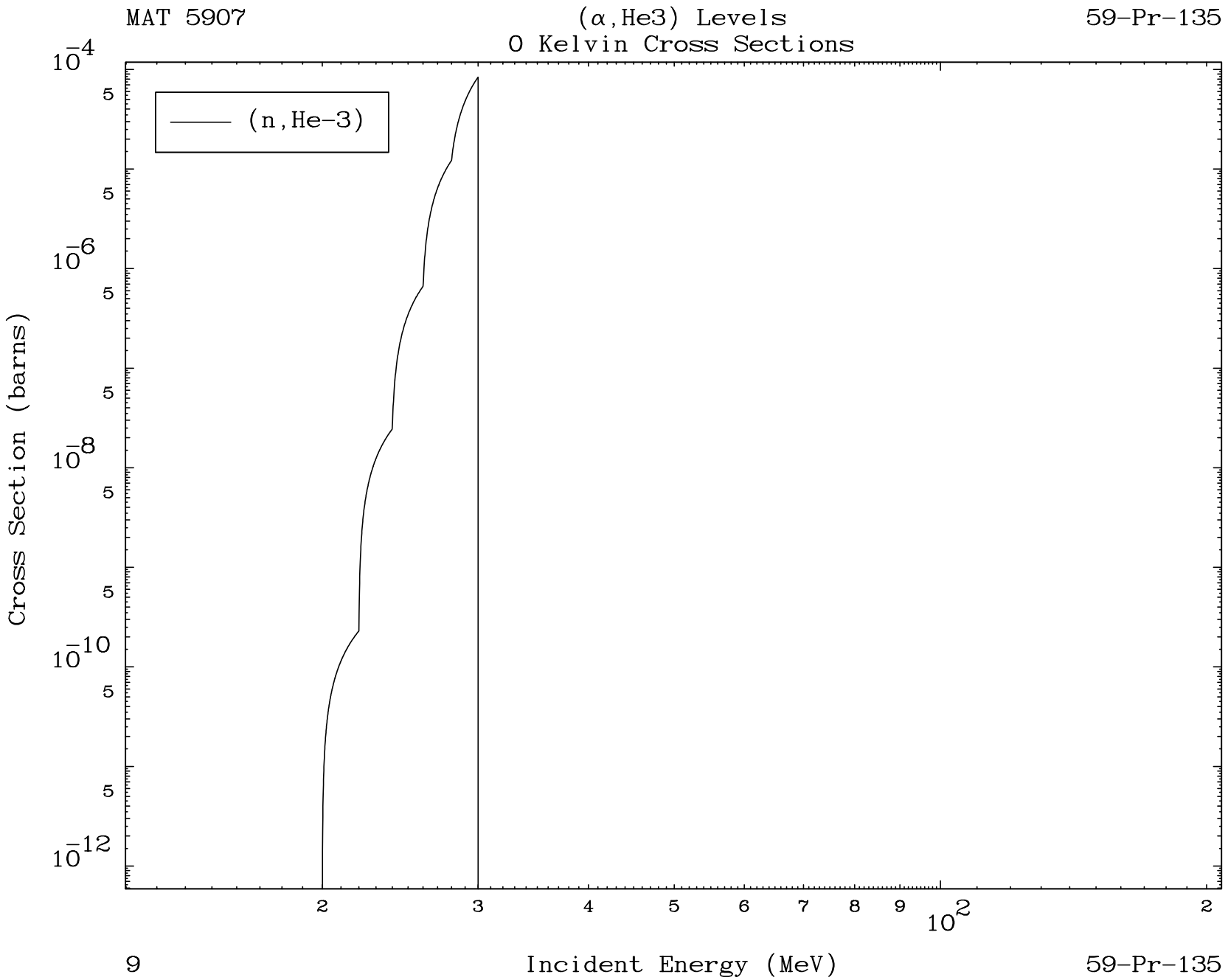

MAT 5907
α Charged Particle
0 Kelvin Cross Sections
59-Pr-135
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
59-Pr-135
4

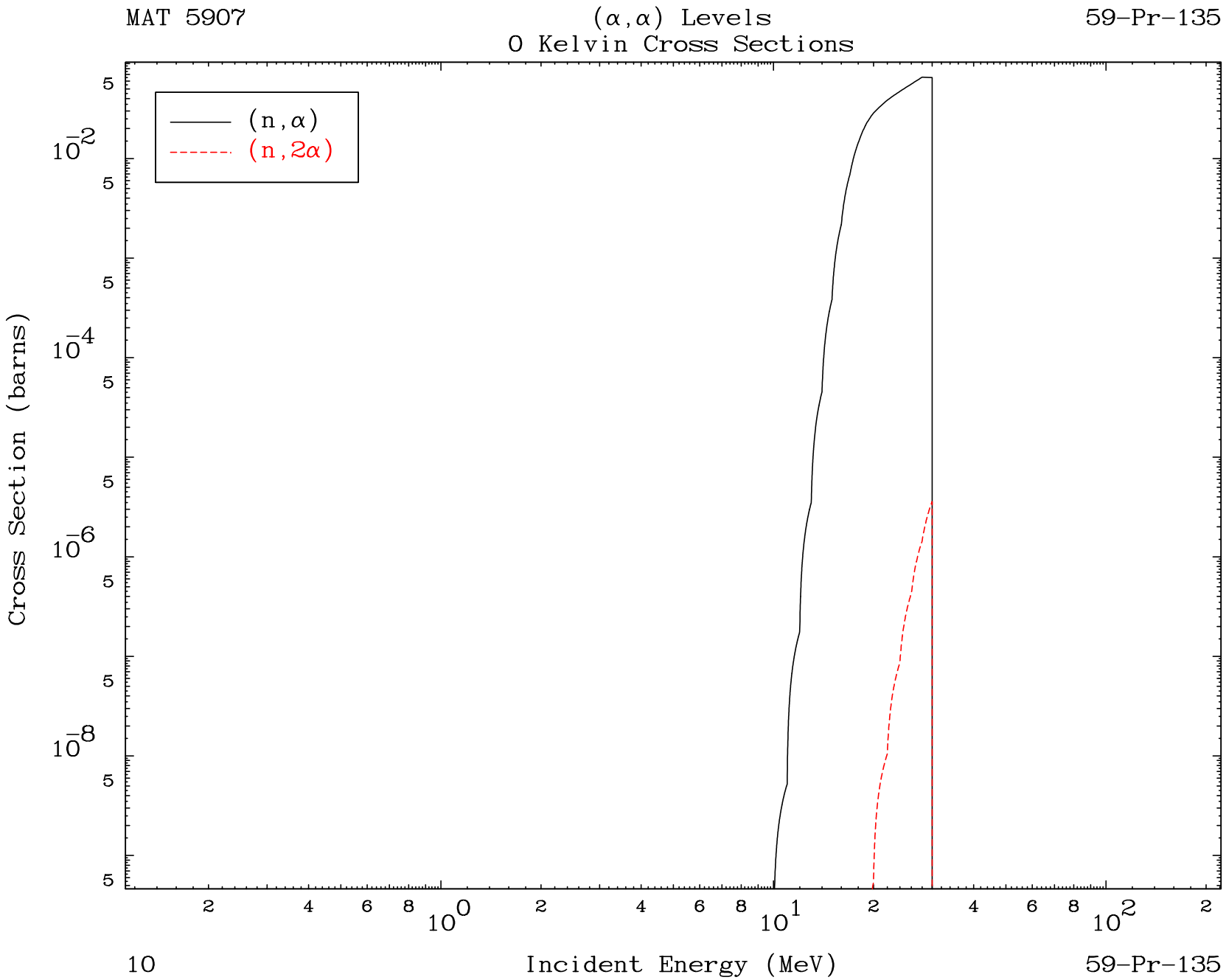

MAT 5907
α Charged Particle
0 Kelvin Cross Sections
59-Pr-135
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
59-Pr-135
5

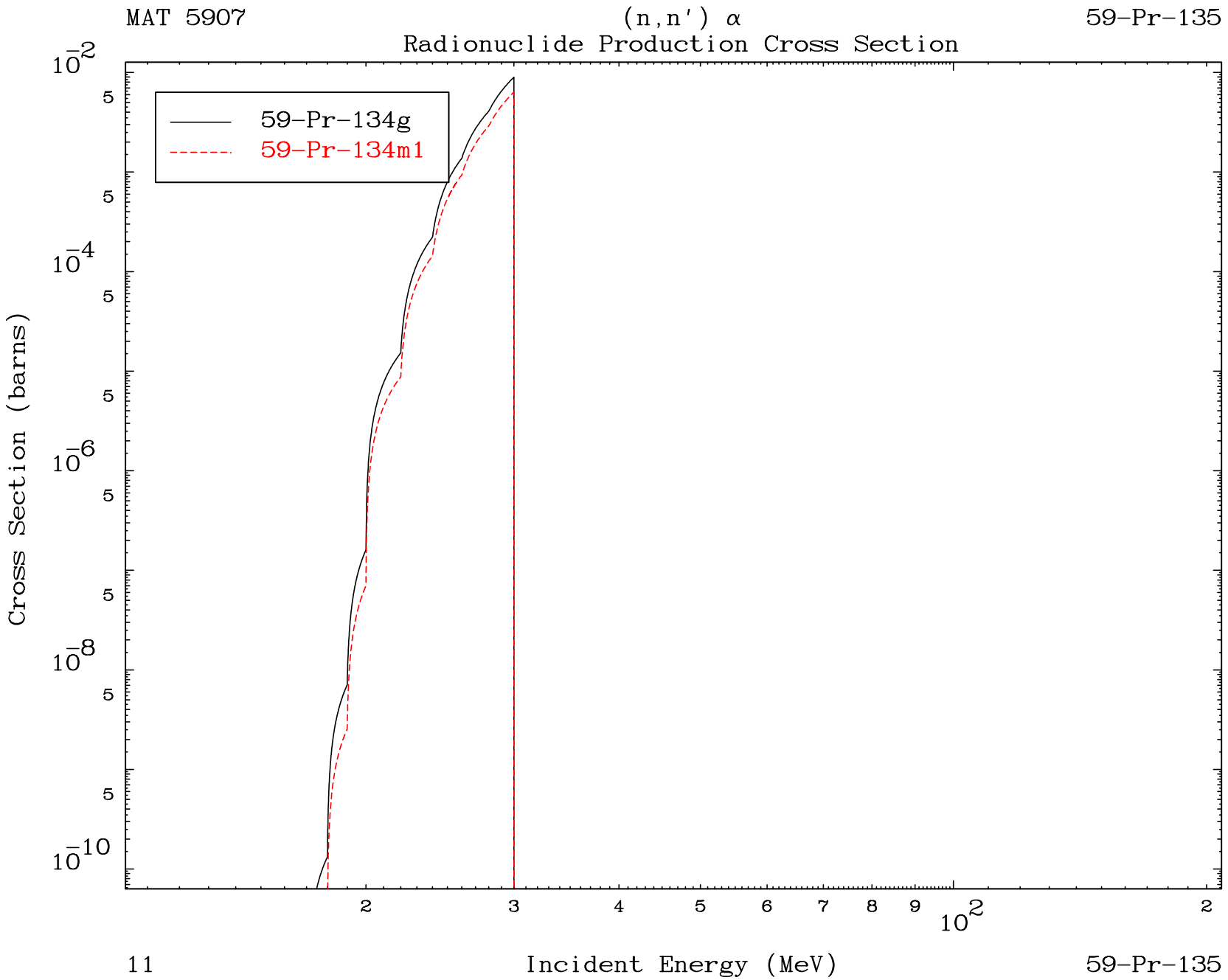

MAT 5907
(α,p) Levels
59-Pr-135
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
59-Pr-135

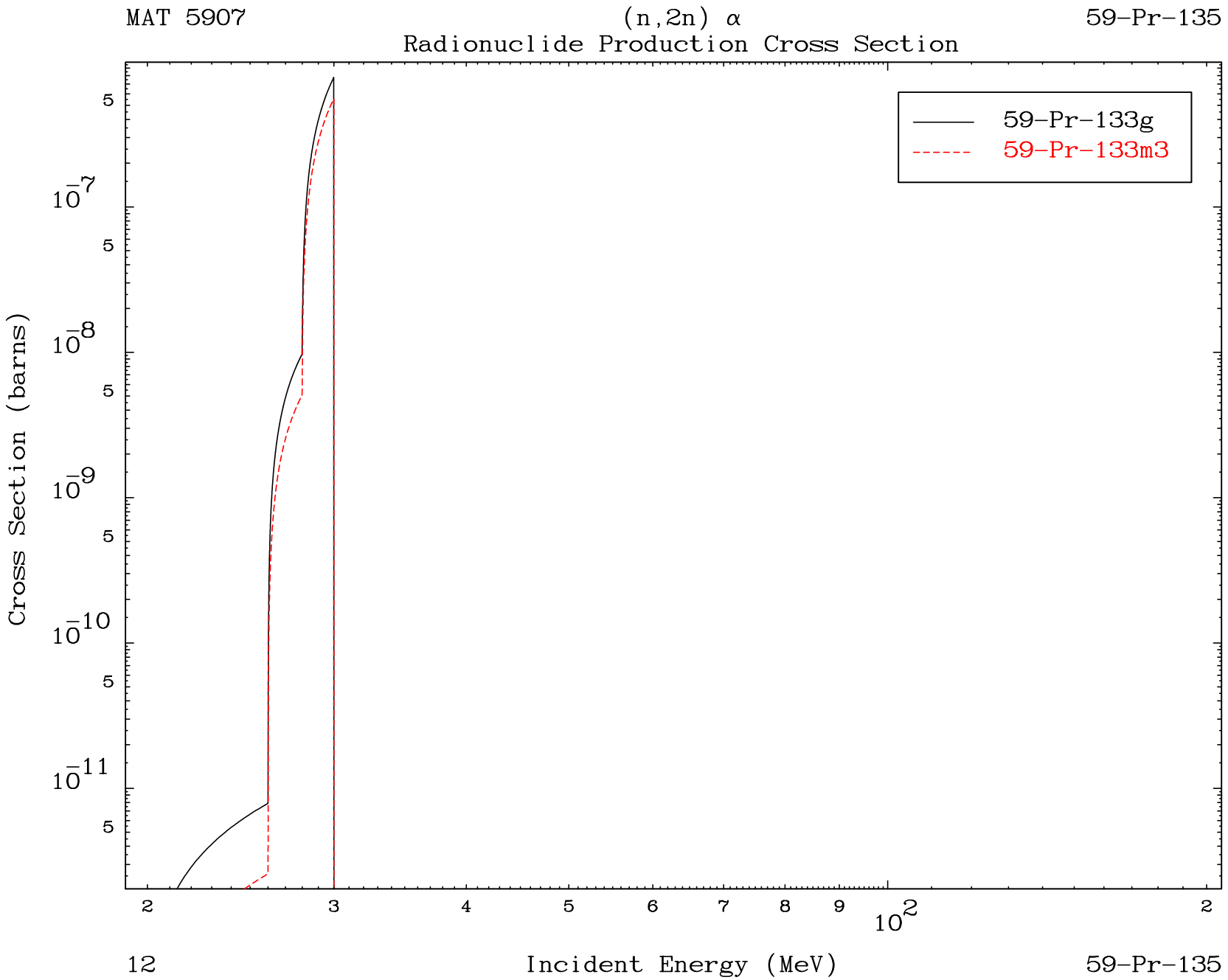

MAT 5907
(α,d) Levels
59-Pr-135
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
59-Pr-135

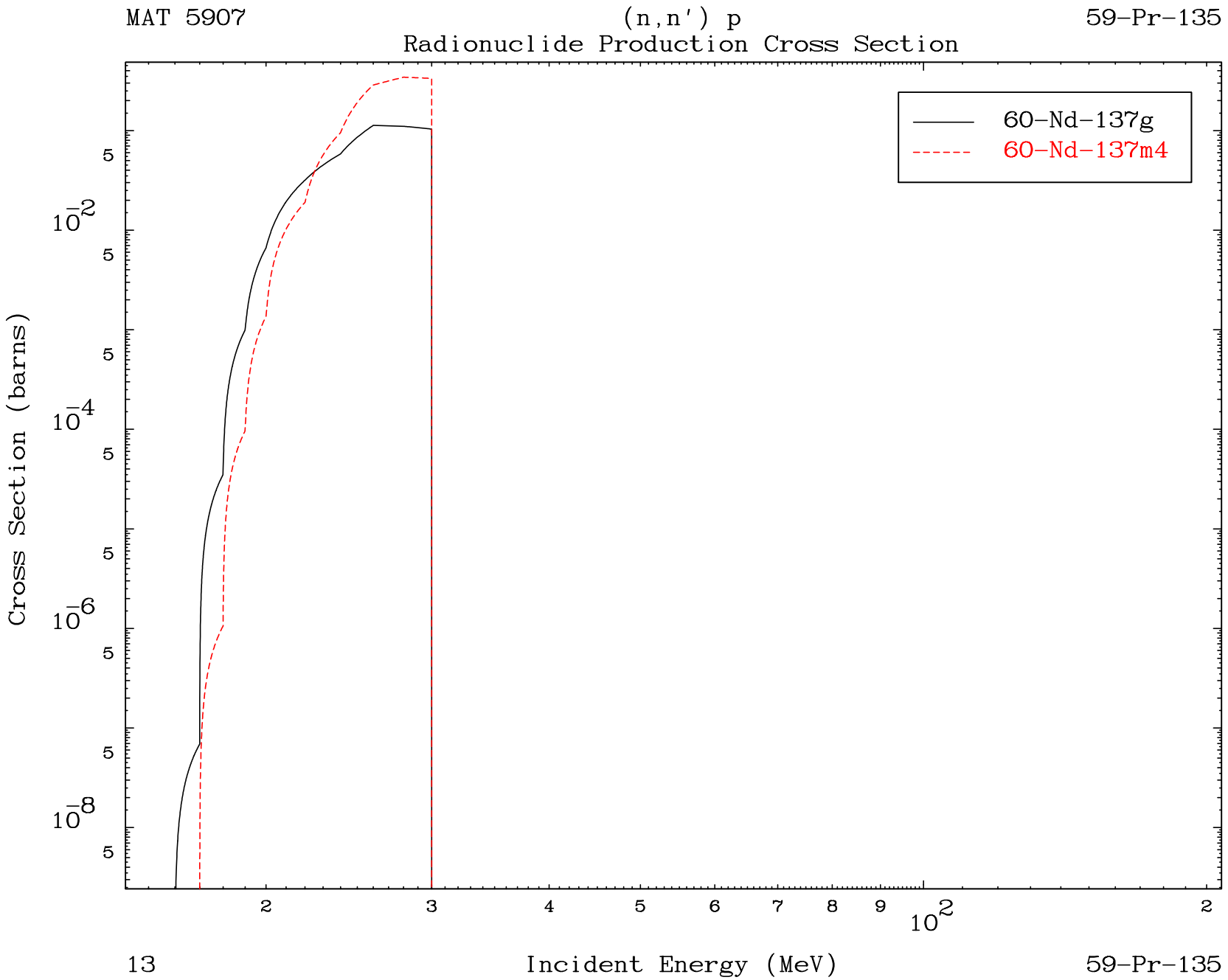

MAT 5907
(α,t) Levels
59-Pr-135
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
8
Incident Energy (MeV)
59-Pr-135

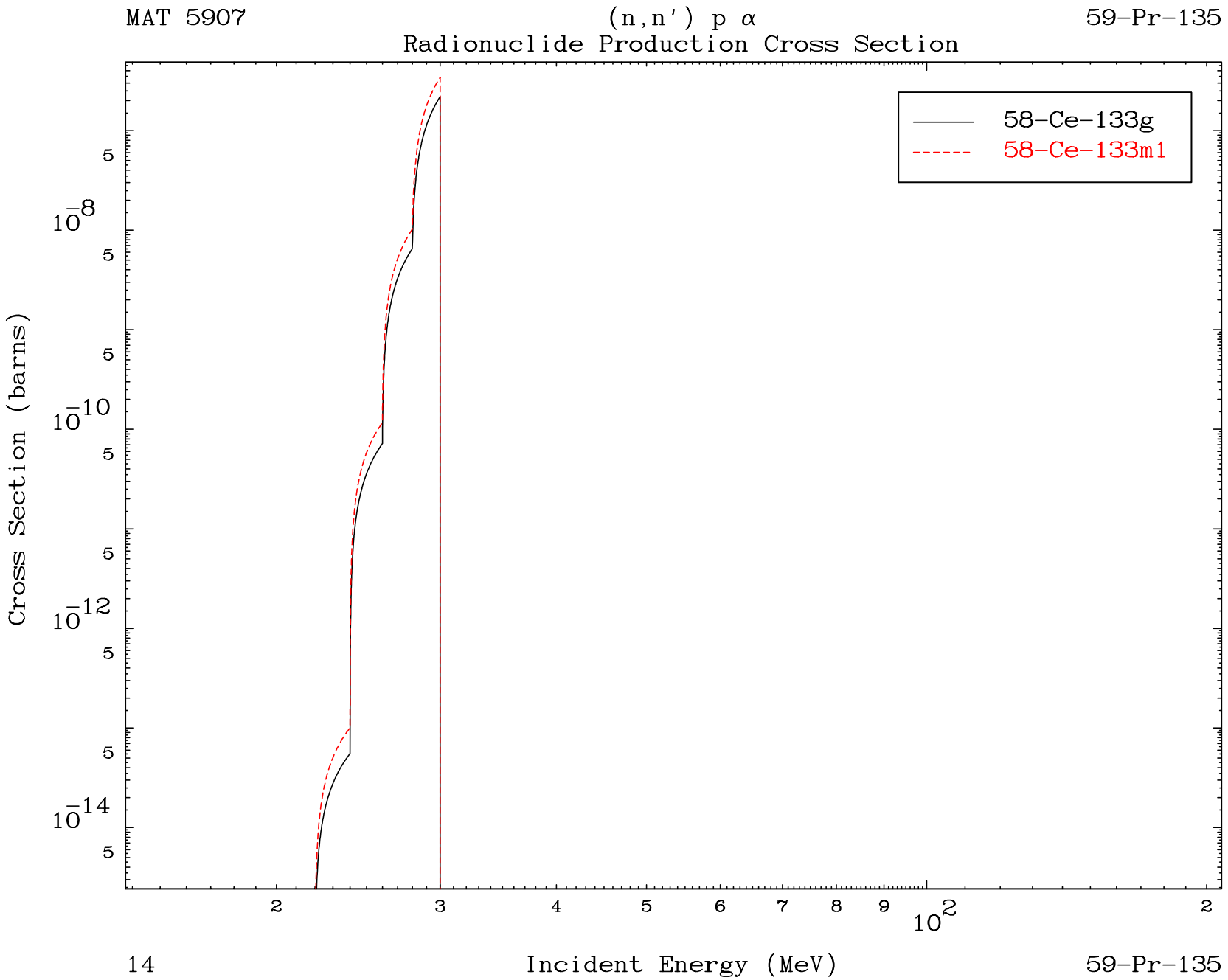

MAT 5907
(α,He3) Levels
59-Pr-135
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
9
59-Pr-135

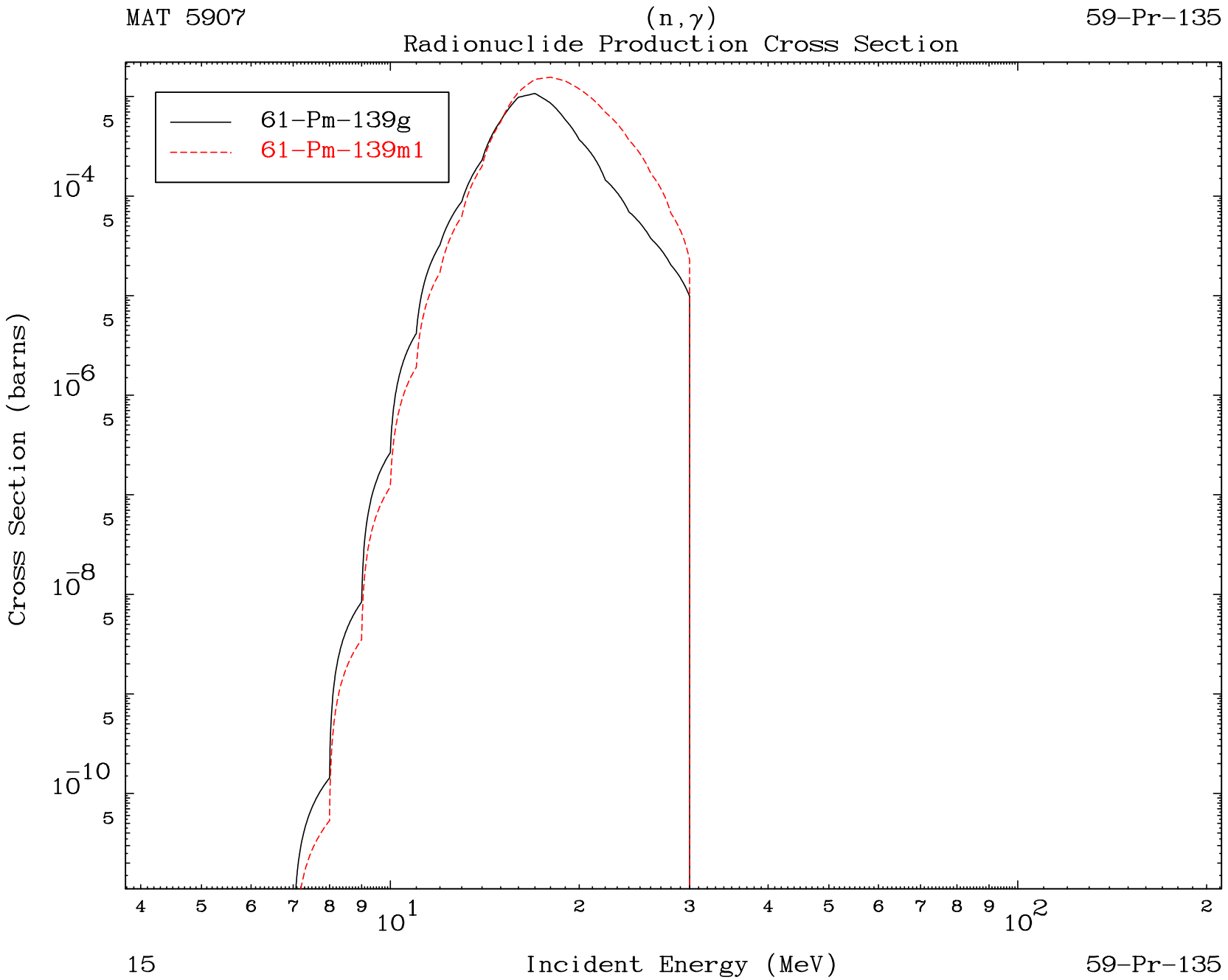

MAT 5907
(α,α) Levels
59-Pr-135
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
59-Pr-135

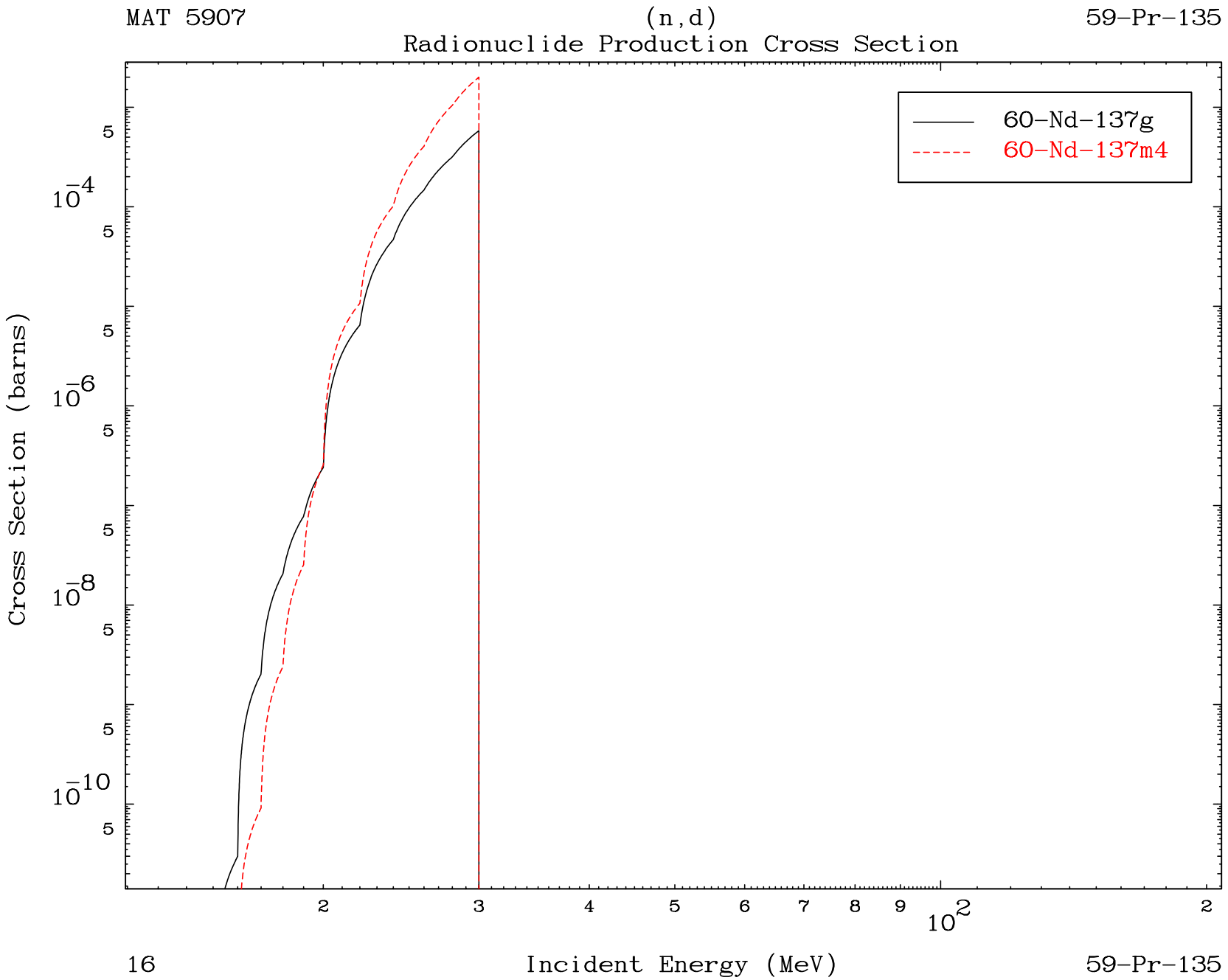

MAT 5907
(n,n') α
59-Pr-135
Radionuclide Production Cross Section
59-Pr-134g
59-Pr-134m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
59-Pr-135

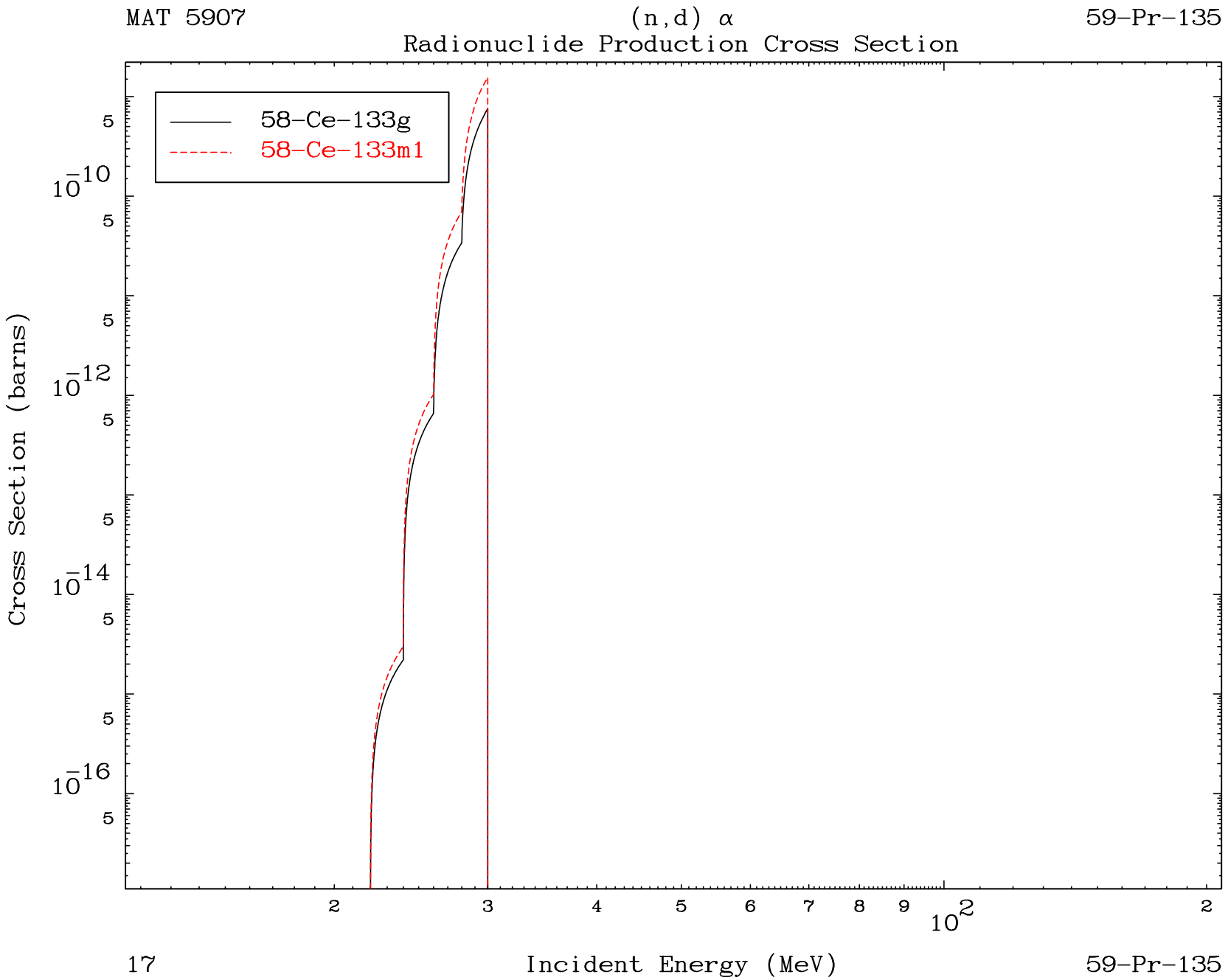

MAT 5907
(n,2n) α
59-Pr-135
Radionuclide Production Cross Section
59-Pr-133g
59-Pr-133m3
Cross Section (barns)
10-7
10-8
10-9
10-10
10-11
5
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
59-Pr-135


MAT 5907
(n,n') p
59-Pr-135
Radionuclide Production Cross Section
60-Nd-137g
60-Nd-137m4
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)
59-Pr-135


MAT 5907
(n,n') p α
59-Pr-135
Radionuclide Production Cross Section
58-Ce-133g
58-Ce-133m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
59-Pr-135


MAT 5907
(n,γ)
59-Pr-135
Radionuclide Production Cross Section
61-Pm-139g
61-Pm-139m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
15
59-Pr-135


MAT 5907
(n,d)
59-Pr-135
Radionuclide Production Cross Section
60-Nd-137g
60-Nd-137m4
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
16
59-Pr-135


MAT 5907
(n,d) α
59-Pr-135
Radionuclide Production Cross Section
58-Ce-133g
58-Ce-133m1
Cross Section (barns)
10-10
10-12
10-14
10-16
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
59-Pr-135