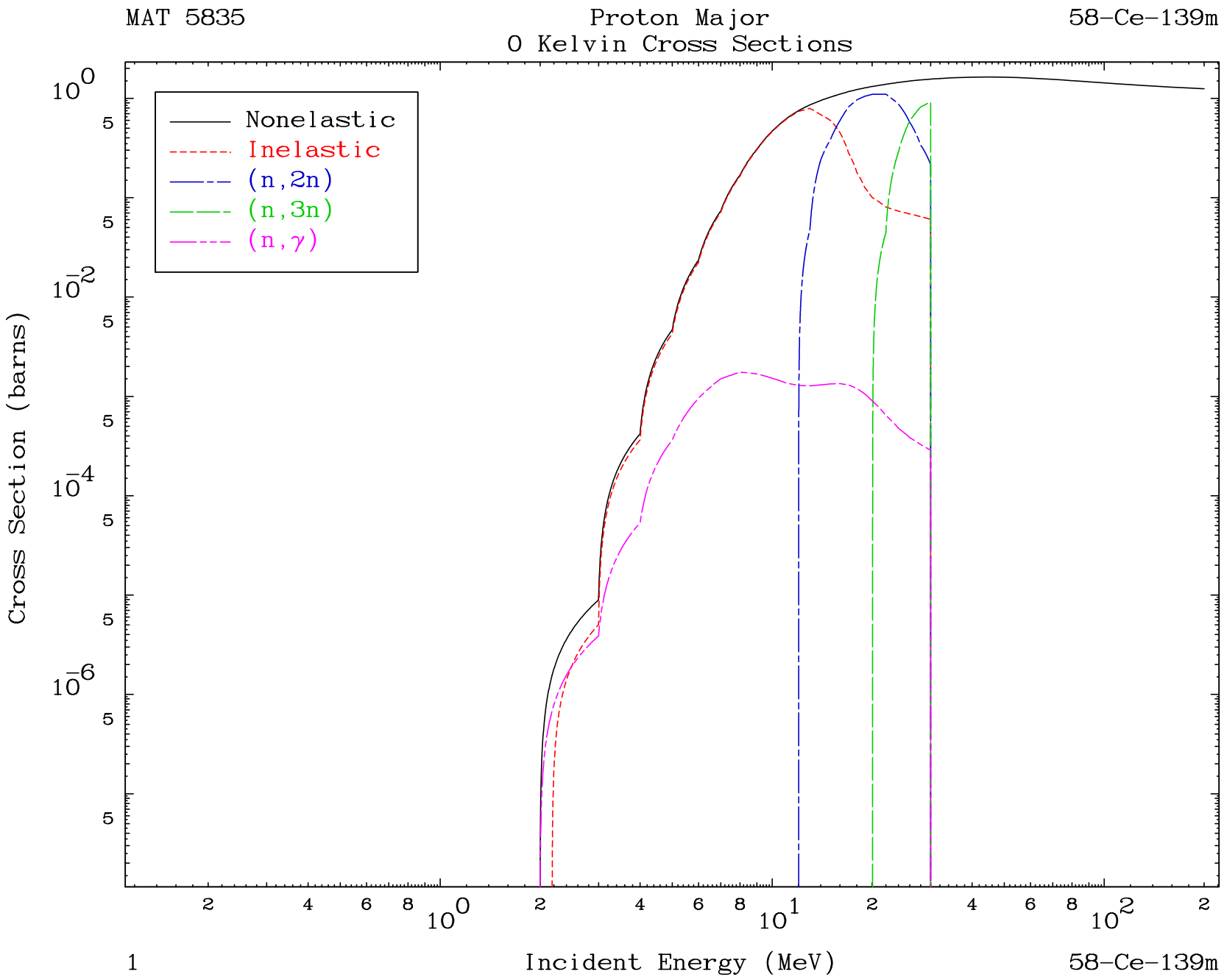
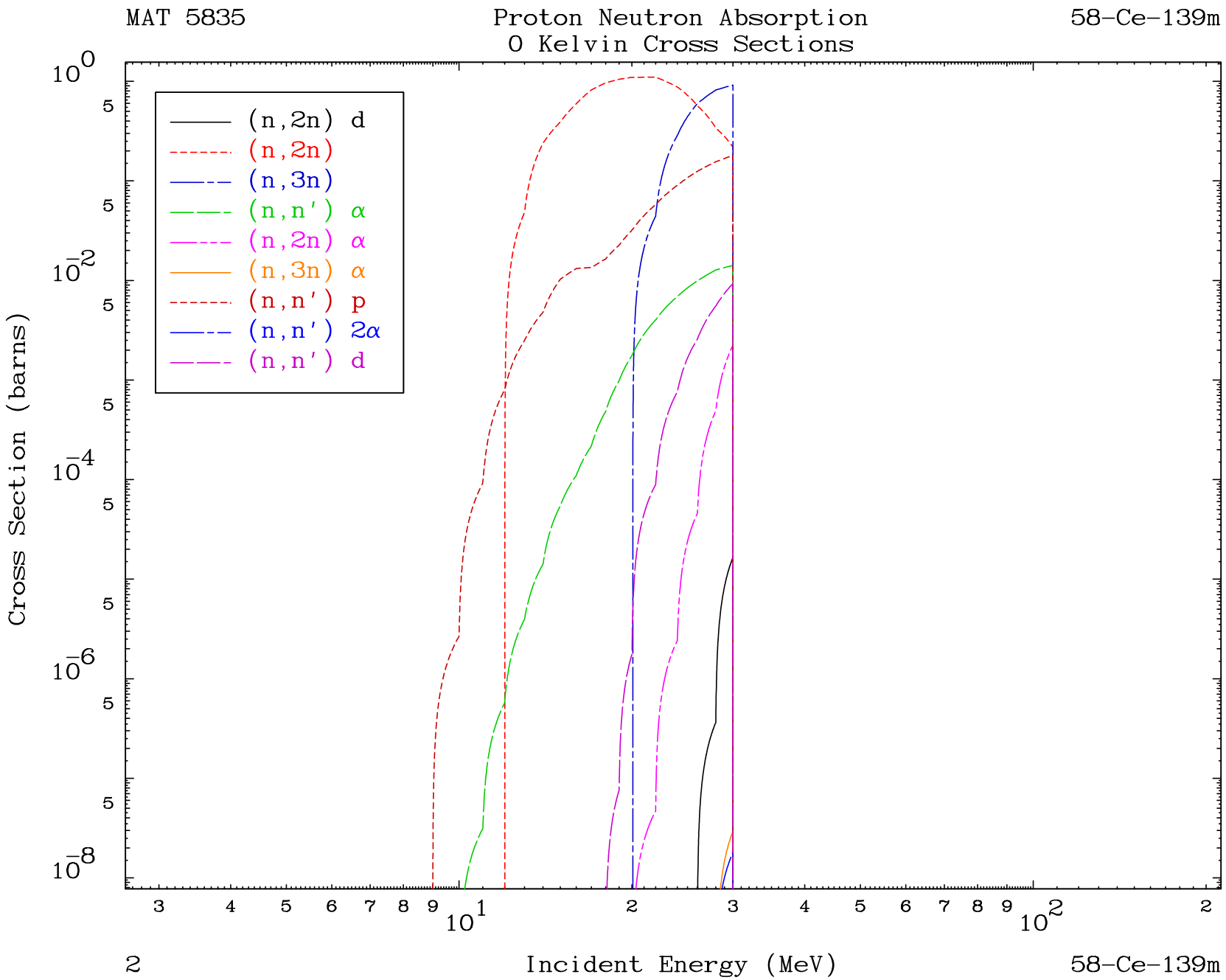
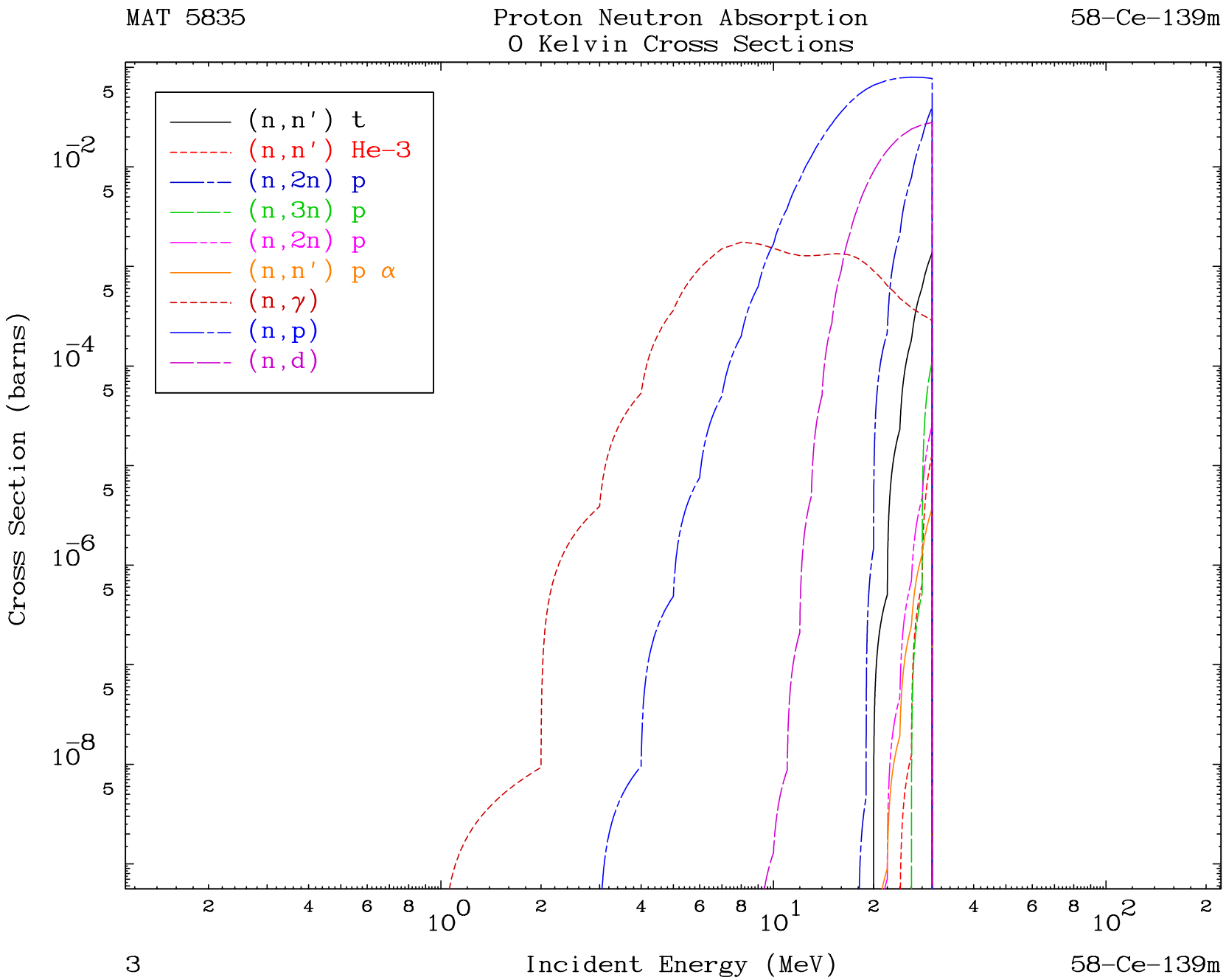
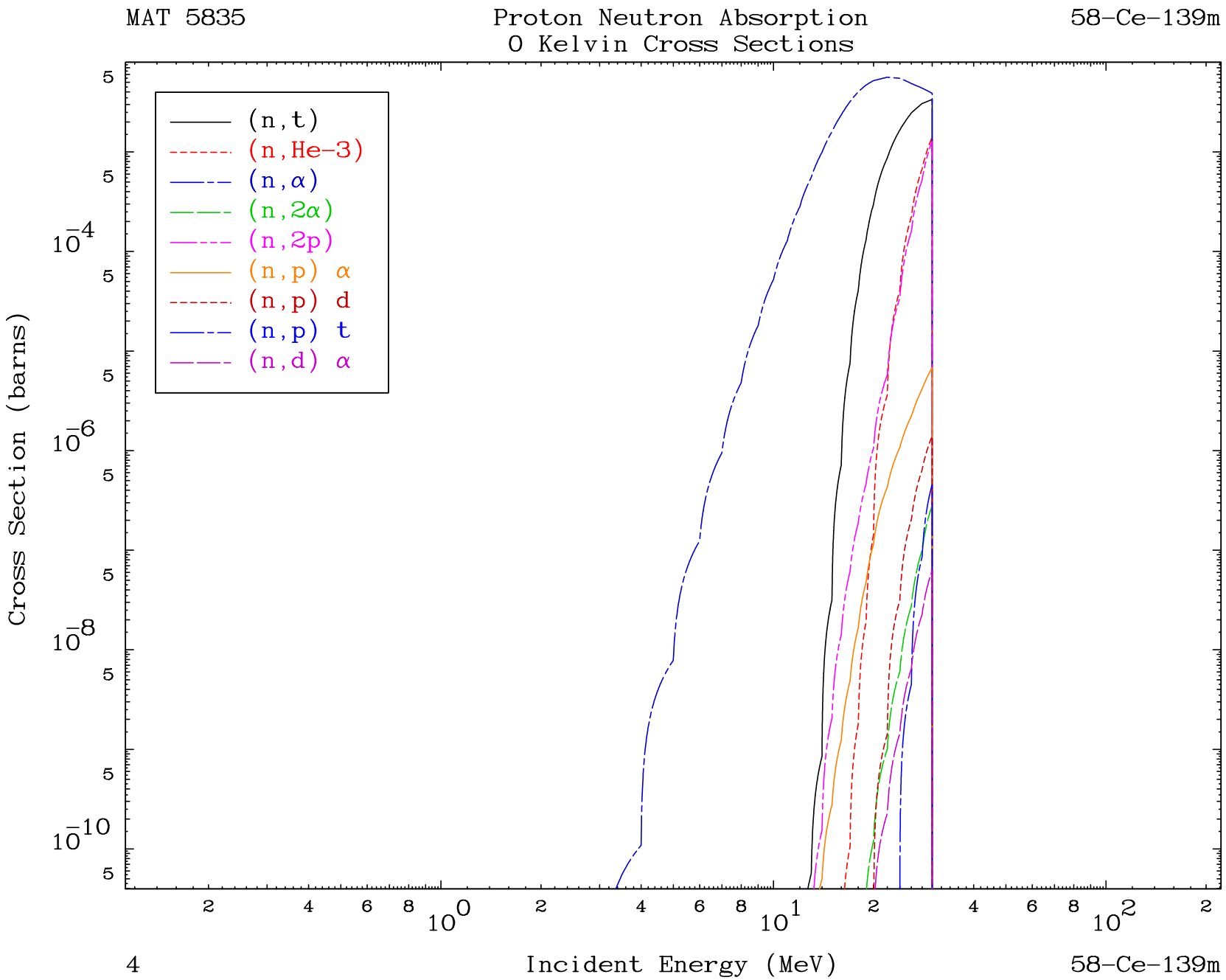
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

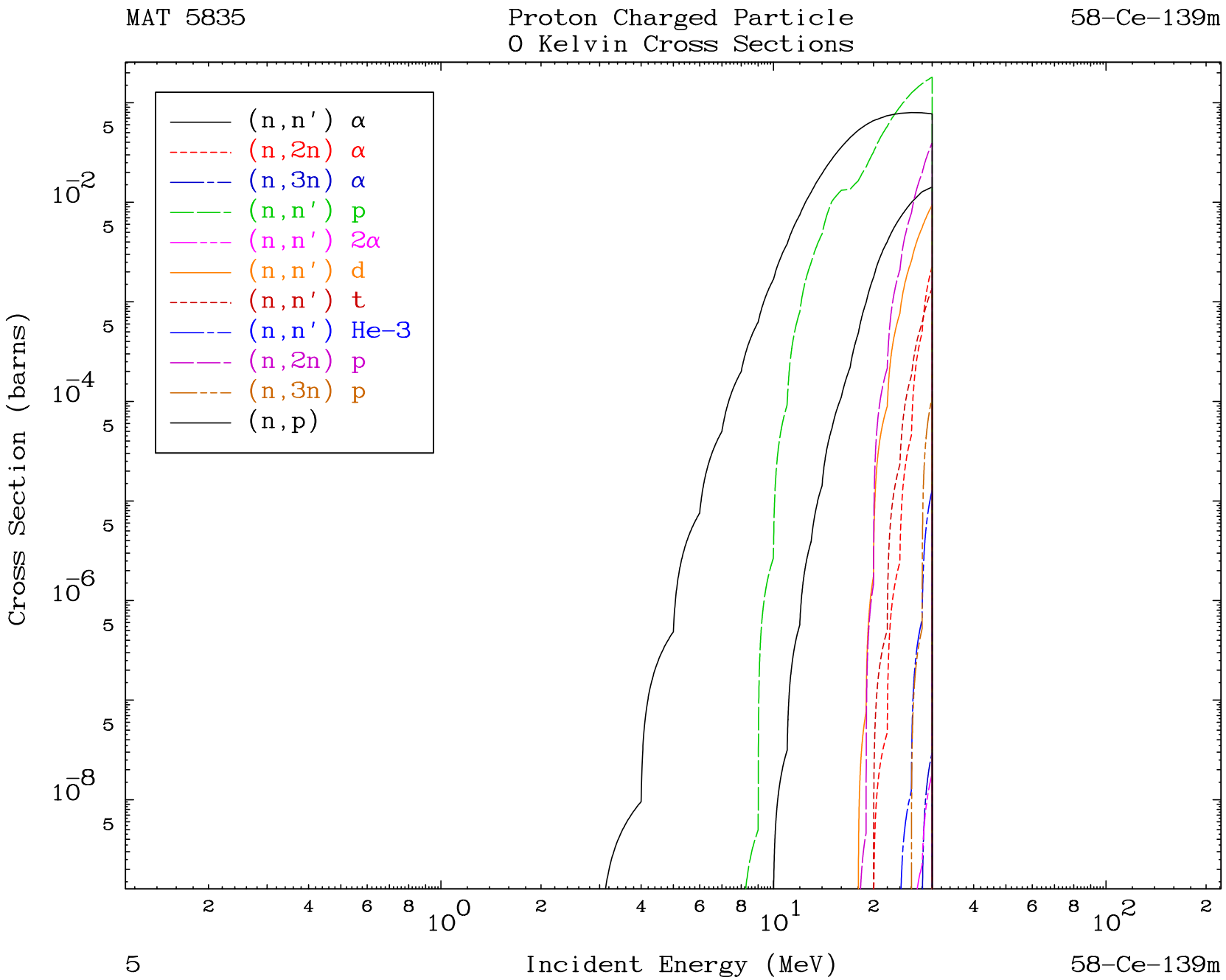
Press Mouse Button to Start

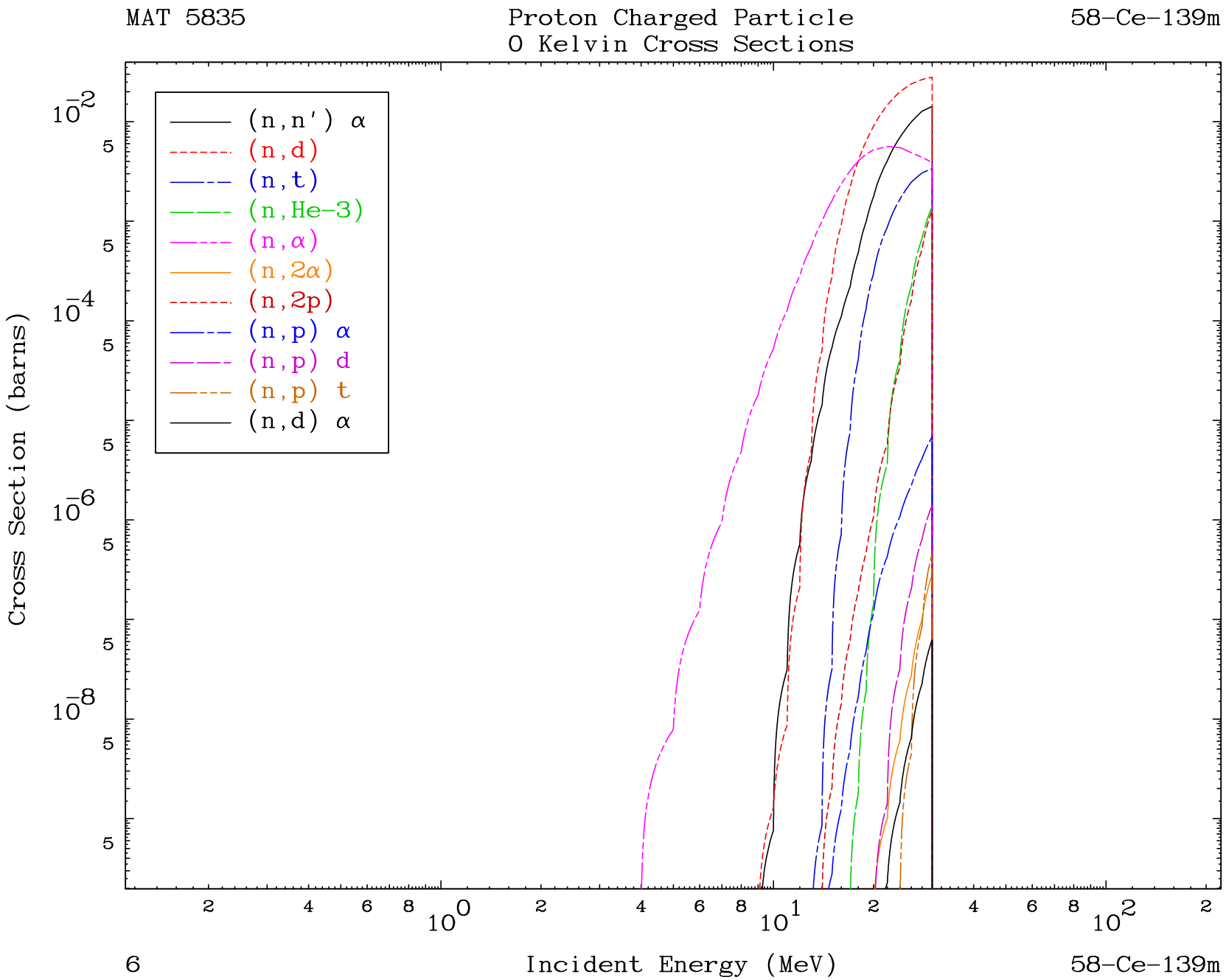

MAT 5835
Proton Major
58-Ce-139m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-139m
1

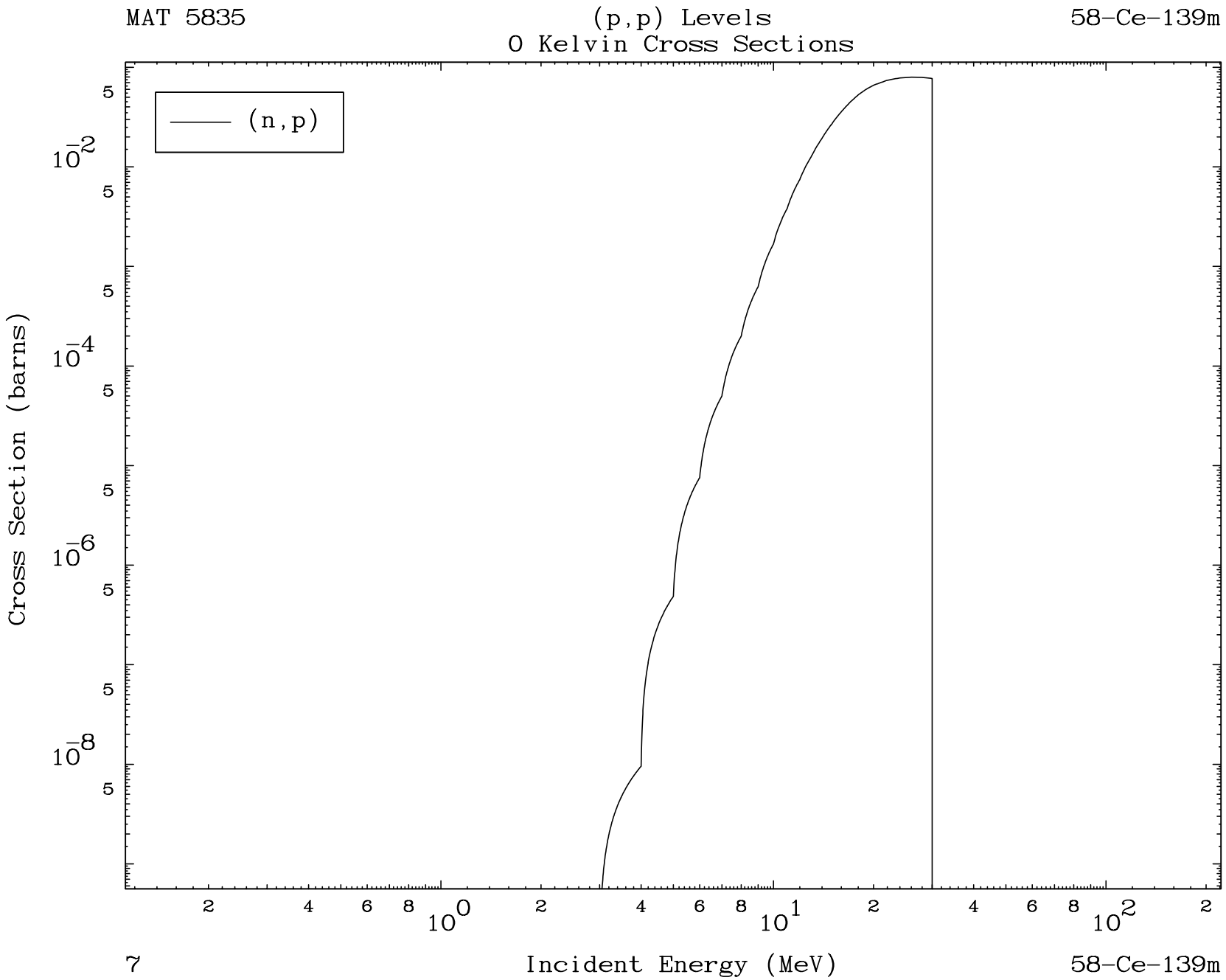

MAT 5835
Proton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-139m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
58-Ce-139m

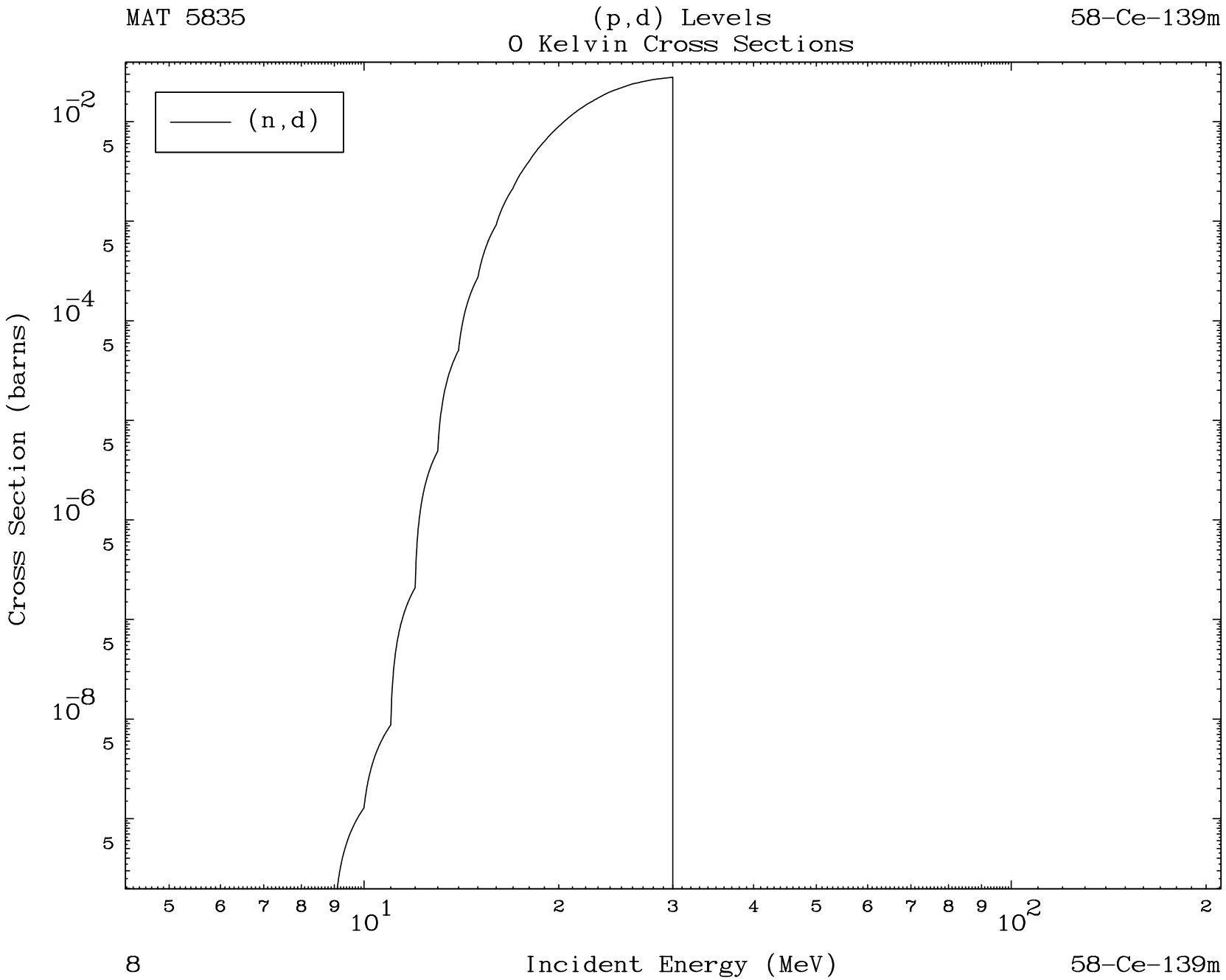

MAT 5835
Proton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-139m
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
3
58-Ce-139m

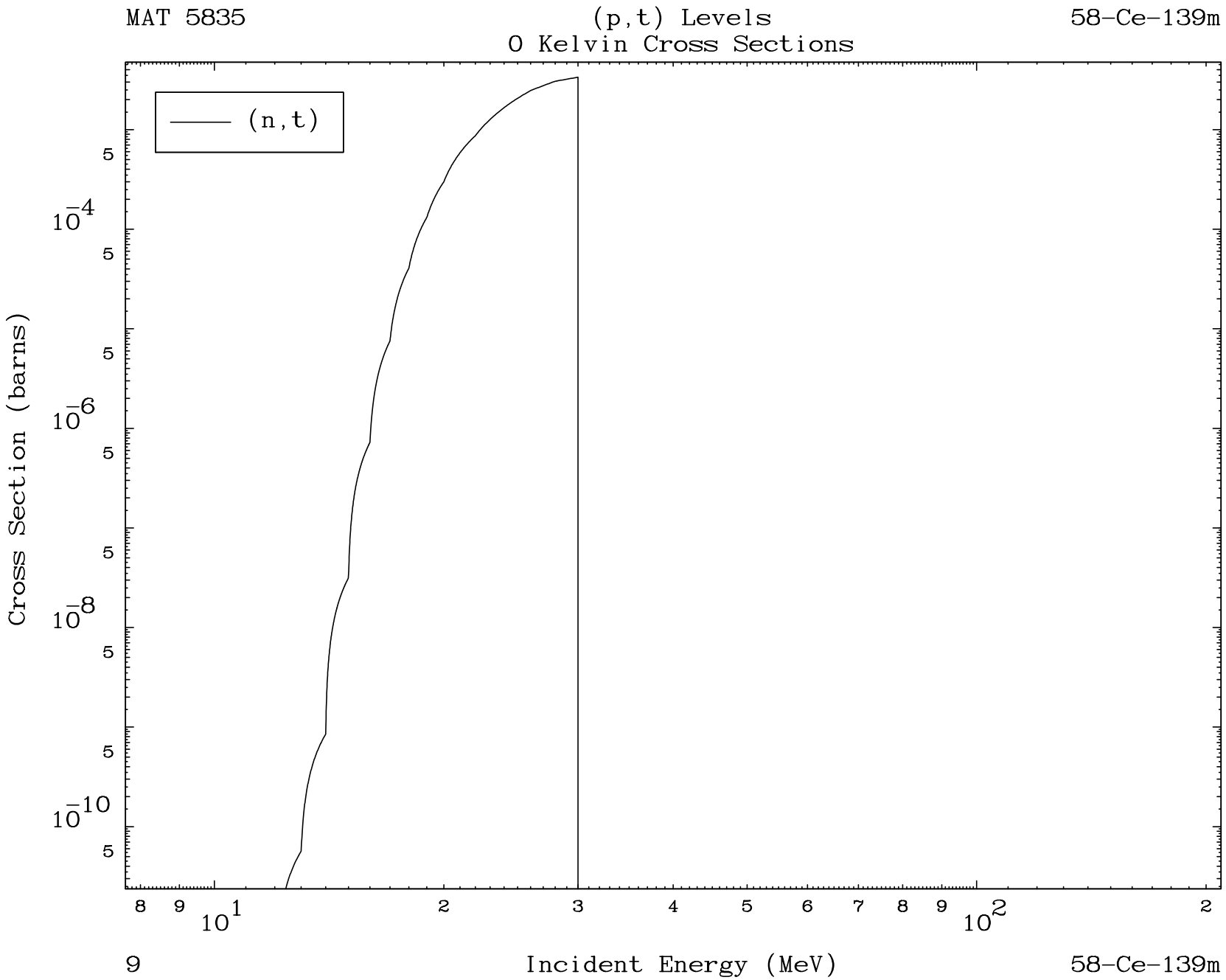

MAT 5835
Proton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-139m
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
58-Ce-139m

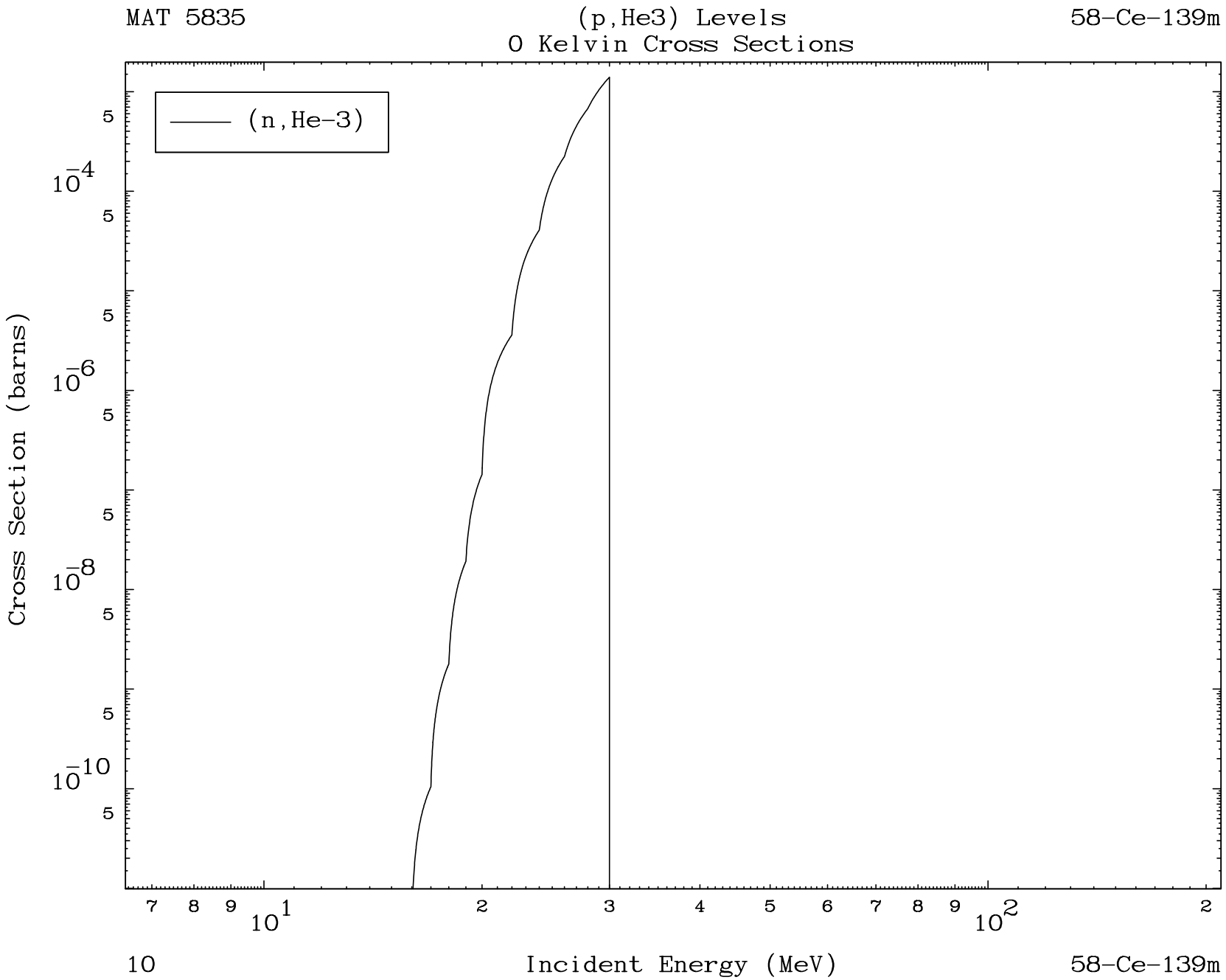

MAT 5835
Proton Charged Particle
0 Kelvin Cross Sections
58-Ce-139m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-139m
5

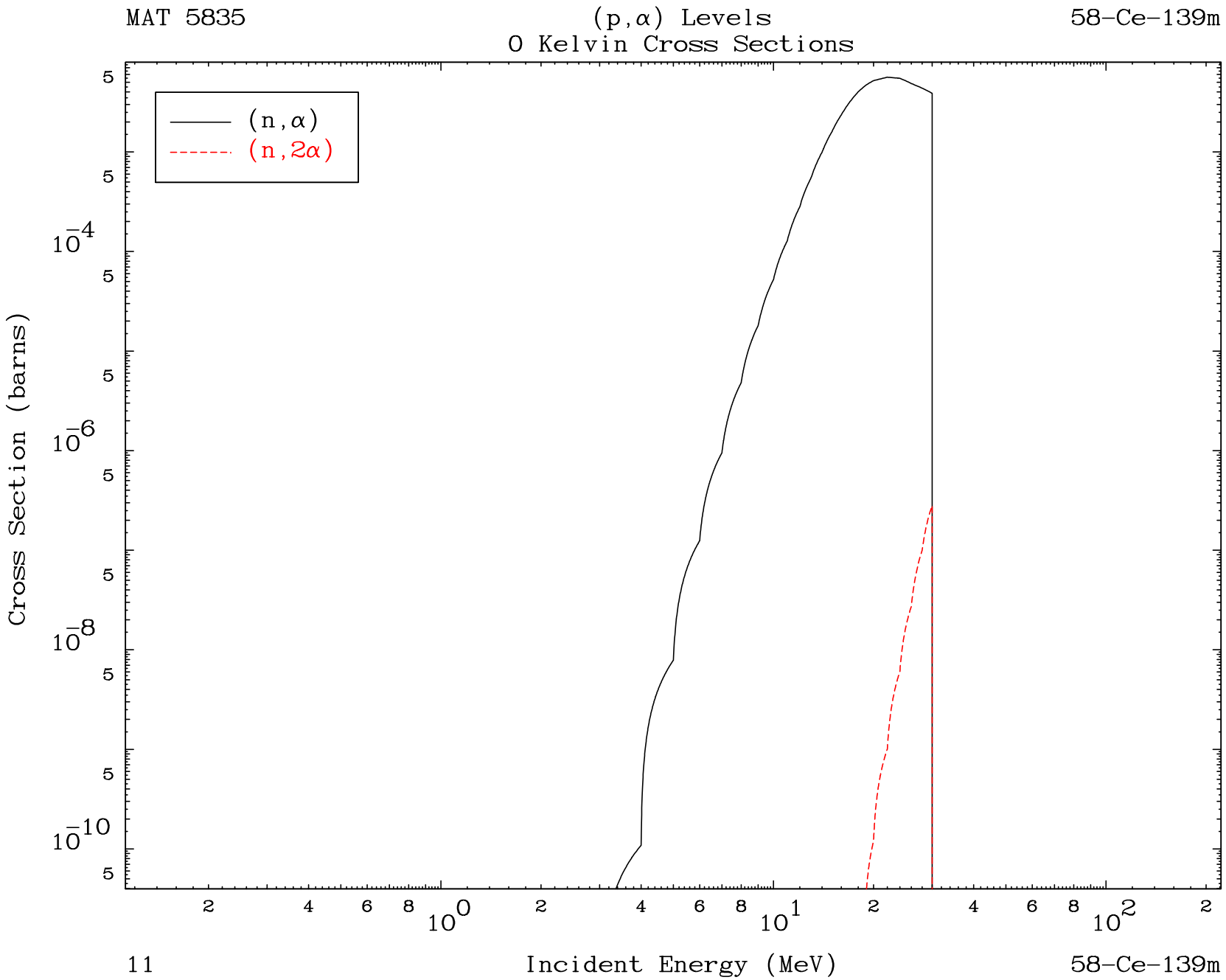

MAT 5835
Proton Charged Particle
0 Kelvin Cross Sections
58-Ce-139m
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
58-Ce-139m

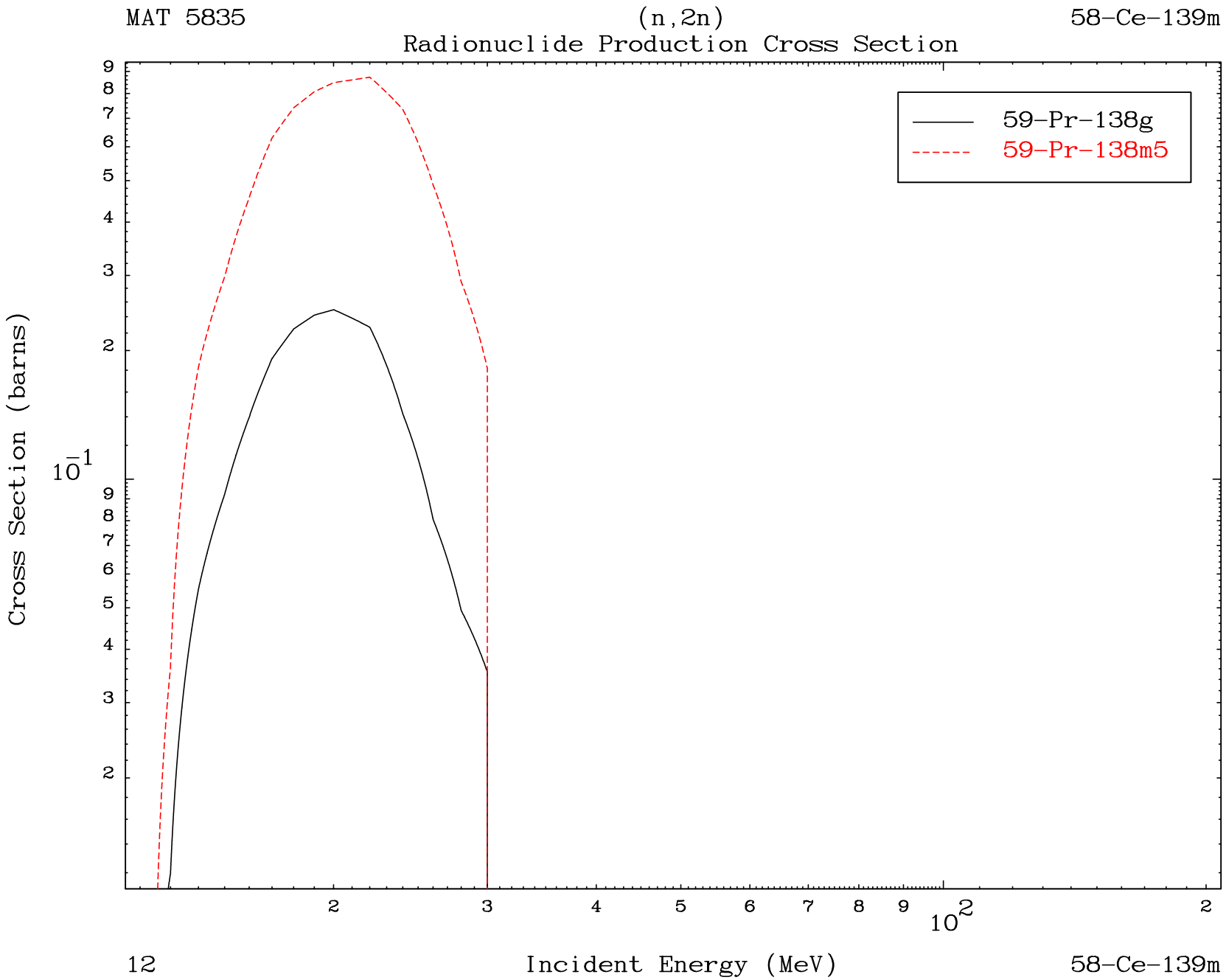

MAT 5835
(p,p) Levels
0 Kelvin Cross Sections
58-Ce-139m
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
58-Ce-139m

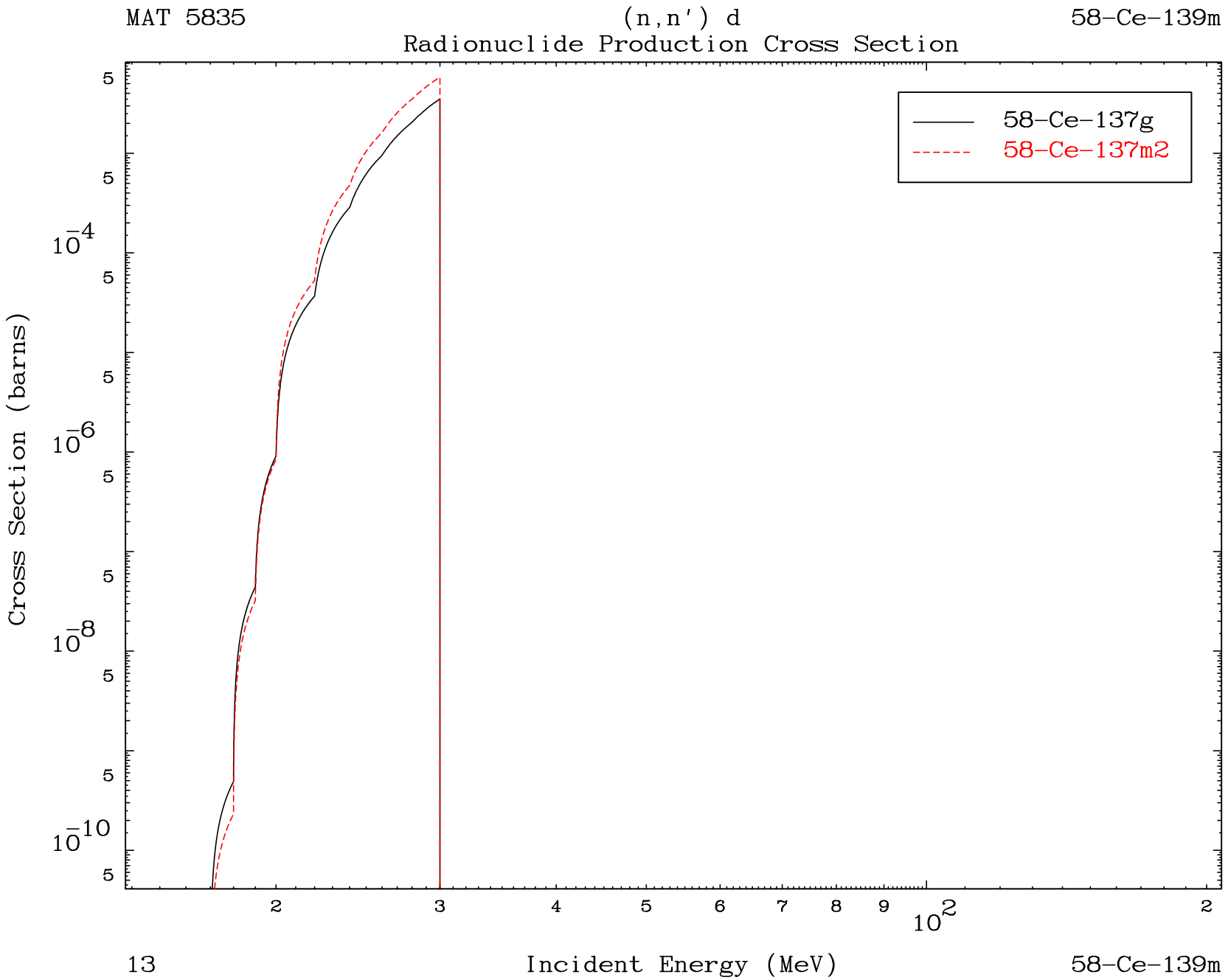

MAT 5835
(p,d) Levels
58-Ce-139m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
58-Ce-139m

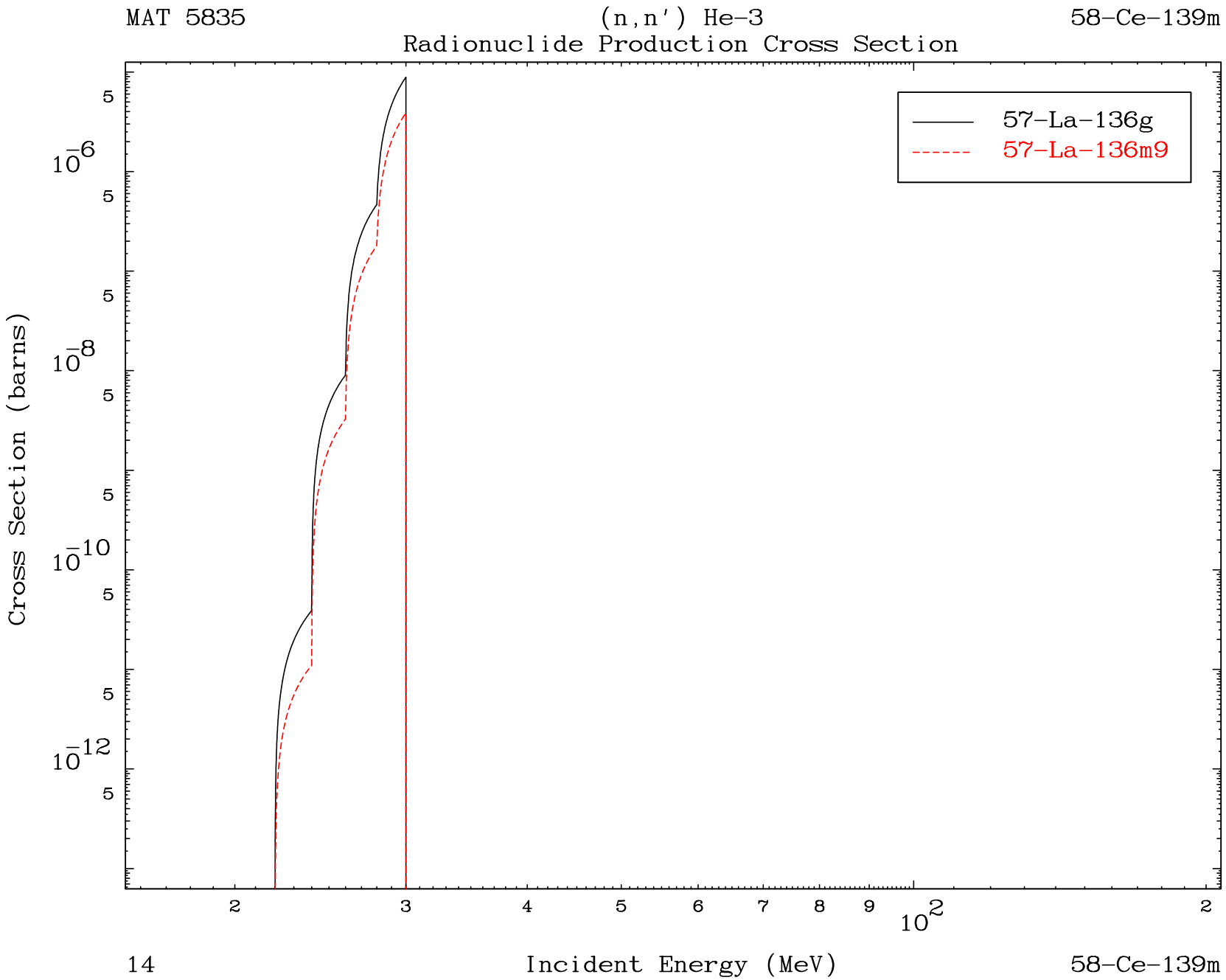

MAT 5835
(p,t) Levels
58-Ce-139m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
58-Ce-139m
9

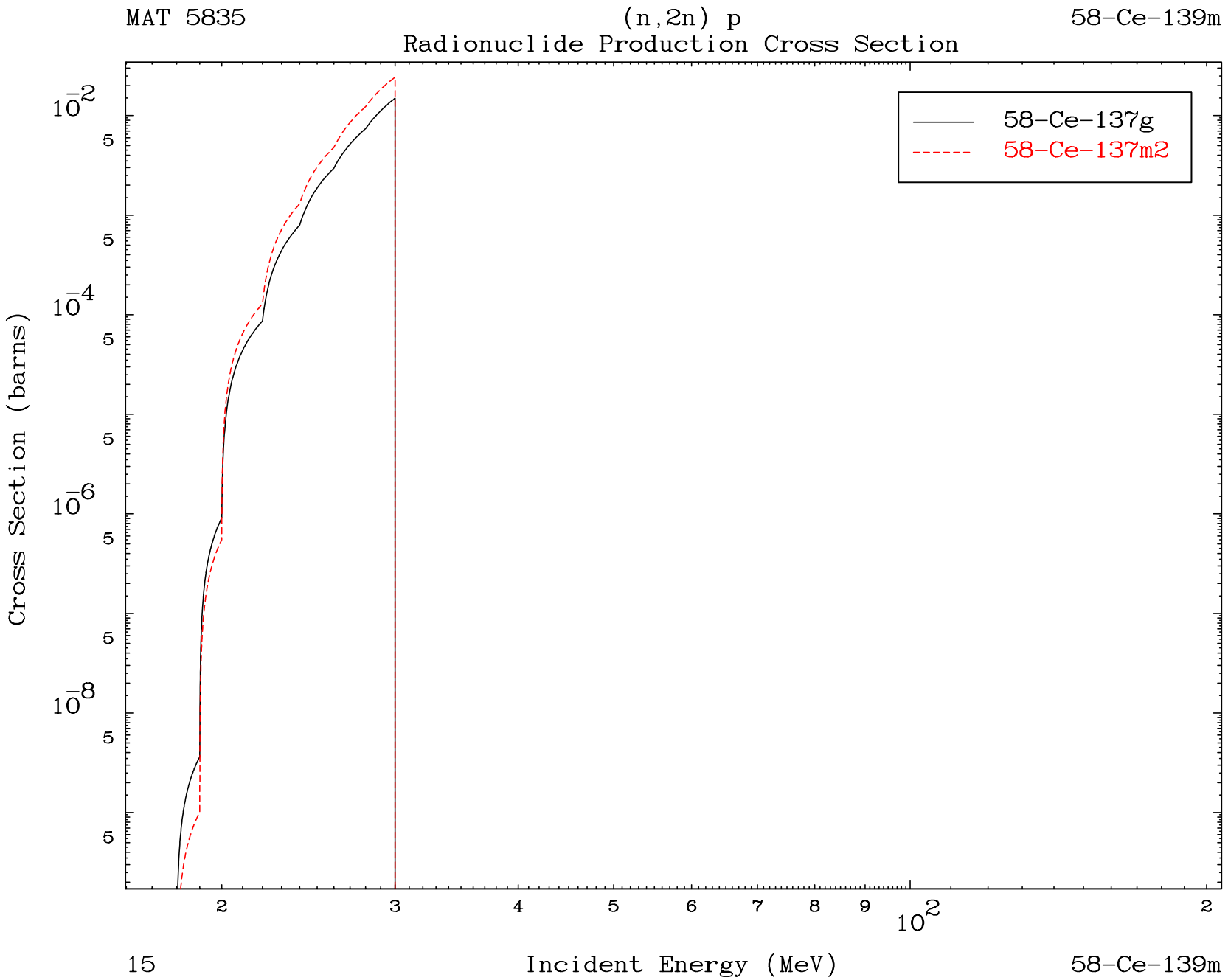

MAT 5835
(p,He3) Levels
58-Ce-139m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
10
Incident Energy (MeV)
58-Ce-139m

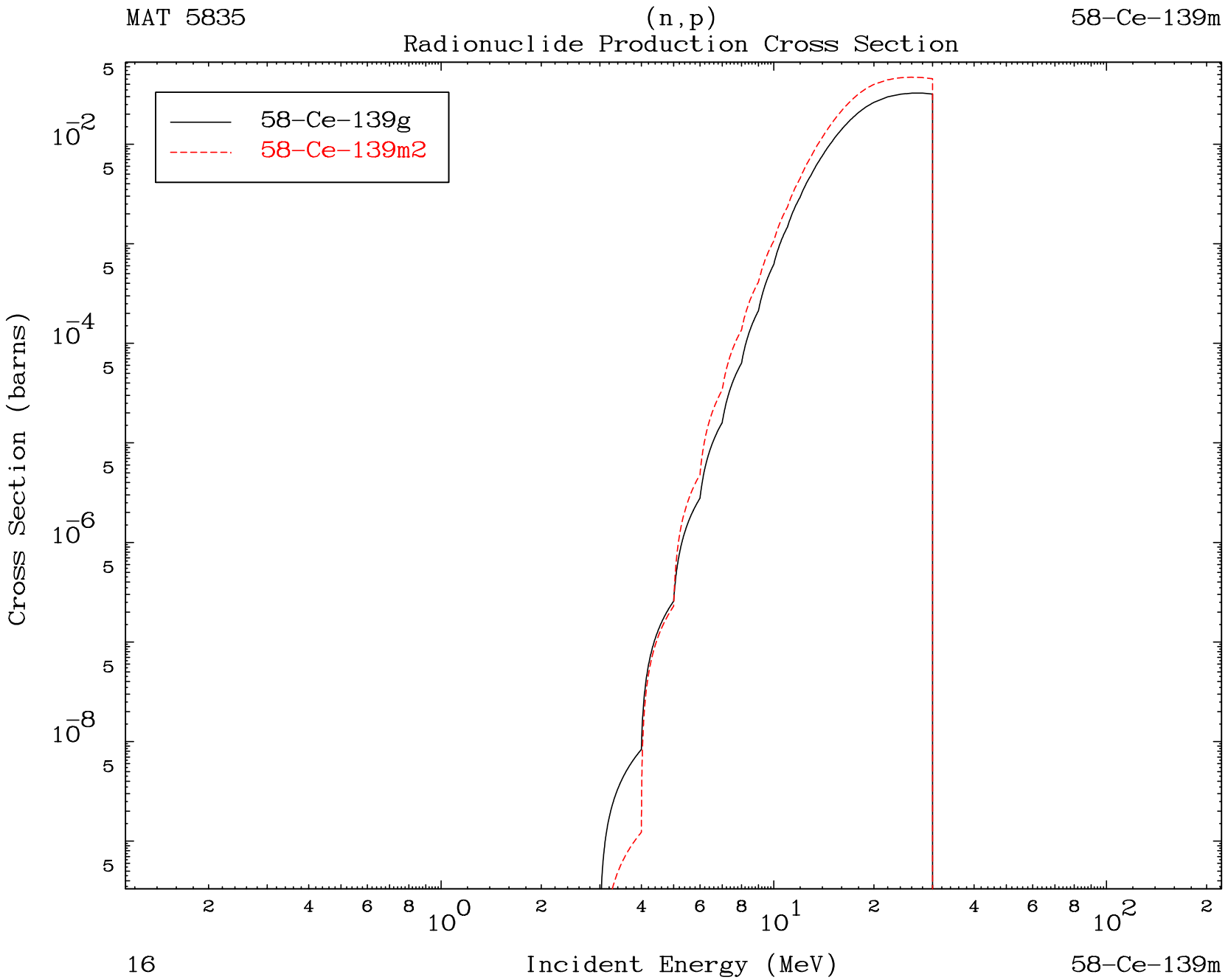

MAT 5835
(p,α) Levels
58-Ce-139m
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
58-Ce-139m

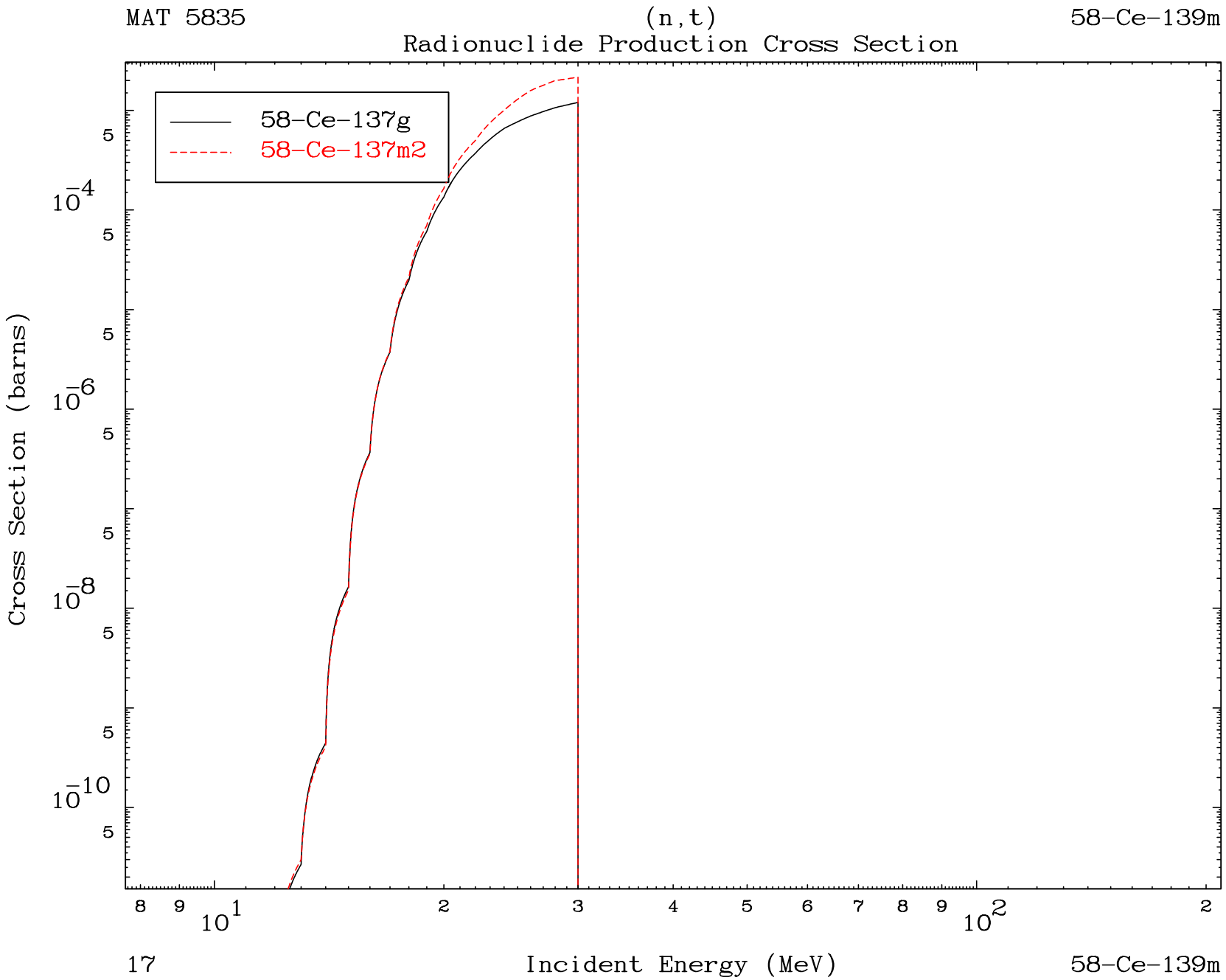

MAT 5835
(n,2n)
58-Ce-139m
Radionuclide Production Cross Section
59-Pr-138g
59-Pr-138m5
Cross Section (barns)
10^1
10^2
Incident Energy (MeV)
12
58-Ce-139m

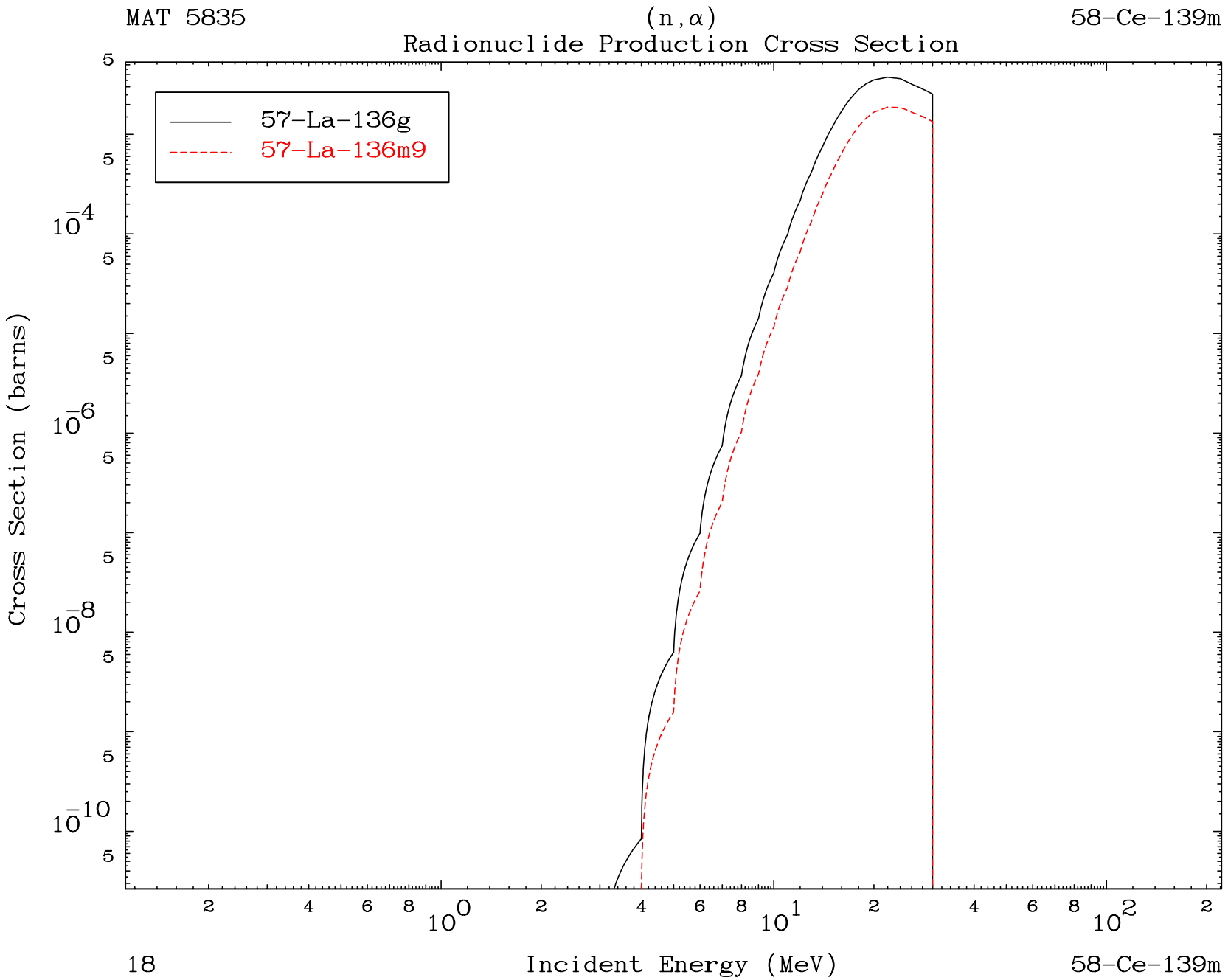

MAT 5835
(n,n') d
58-Ce-139m
Radionuclide Production Cross Section
58-Ce-137g
58-Ce-137m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10^2
13
58-Ce-139m

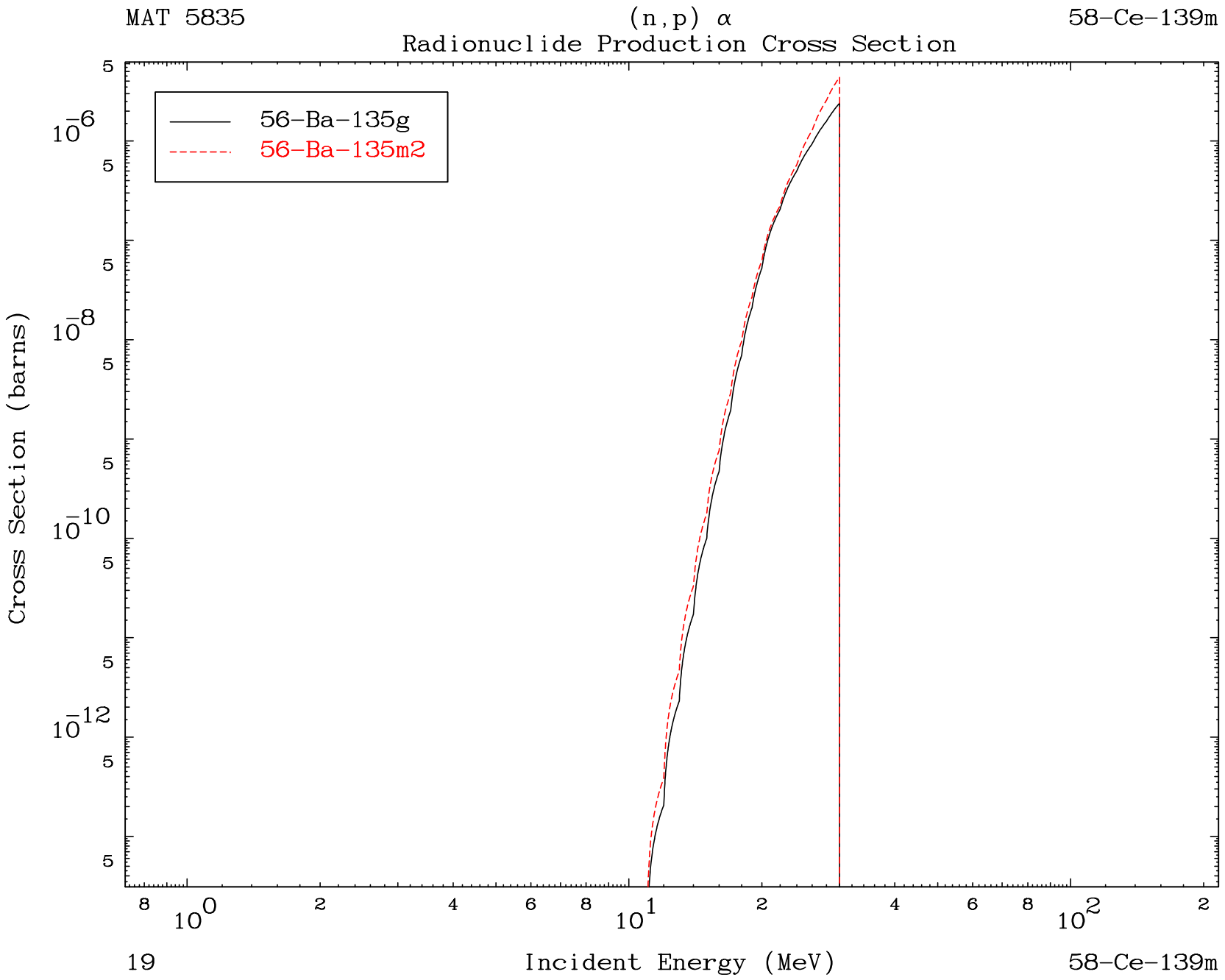

MAT 5835
(n,n') He-3
58-Ce-139m
Radionuclide Production Cross Section
57-La-136g
57-La-136m9
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
58-Ce-139m

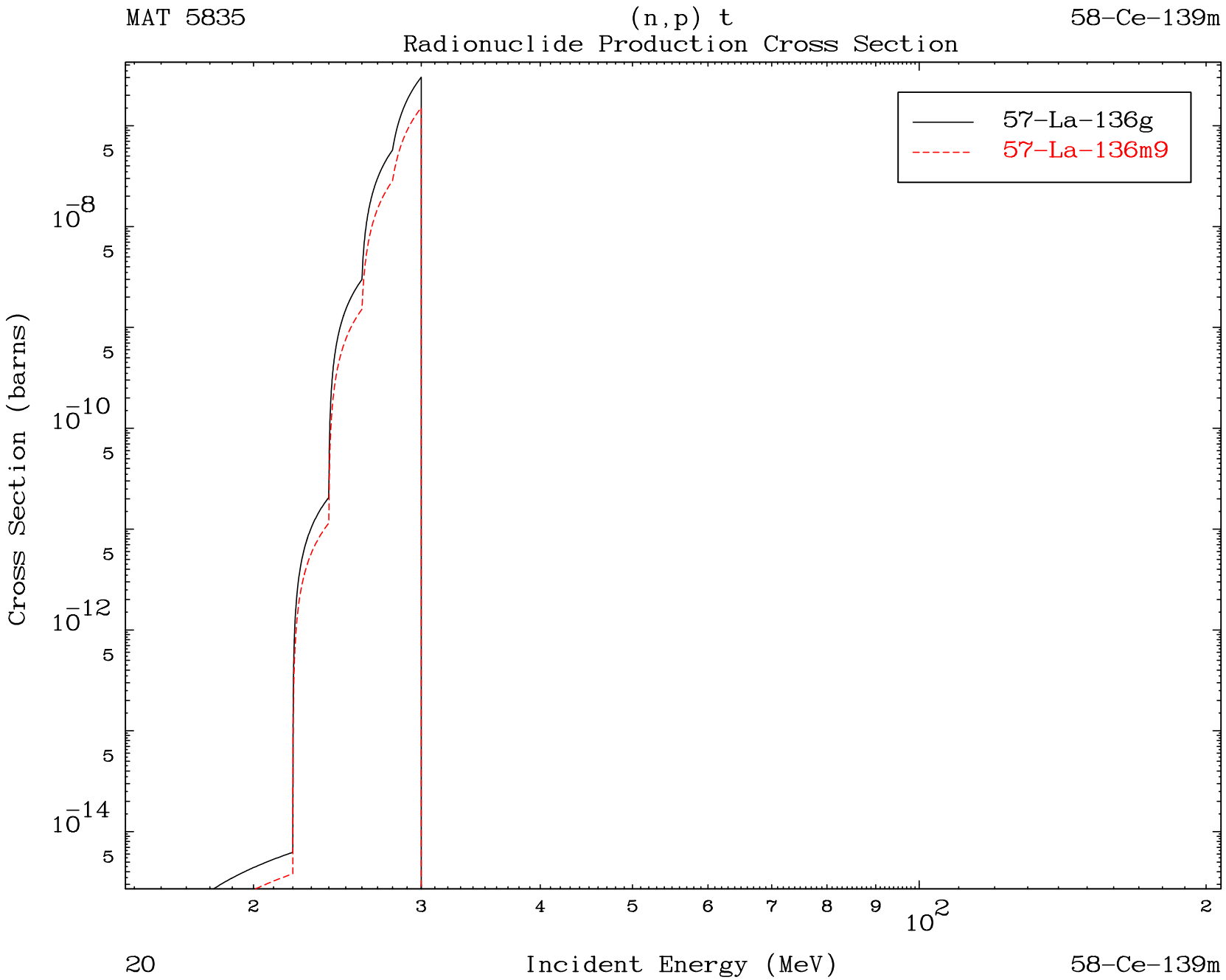

MAT 5835
(n,2n) p
58-Ce-139m
Radionuclide Production Cross Section
58-Ce-137g
58-Ce-137m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
102
2
15
Incident Energy (MeV)
58-Ce-139m


MAT 5835
(n,p)
58-Ce-139m
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
Incident Energy (MeV)
16
58-Ce-139m


MAT 5835
(n,t)
58-Ce-139m
Radionuclide Production Cross Section
58-Ce-137g
58-Ce-137m2
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
17
Incident Energy (MeV)
58-Ce-139m


MAT 5835
(n,α)
58-Ce-139m
Radionuclide Production Cross Section
57-La-136g
57-La-136m9
Cross Section (barns)
Incident Energy (MeV)
18
58-Ce-139m


MAT 5835
(n,p) α
58-Ce-139m
Radionuclide Production Cross Section
56-Ba-135g
56-Ba-135m2
Cross Section (barns)
Incident Energy (MeV)
19
58-Ce-139m


MAT 5835
(n,p) t
58-Ce-139m
Radionuclide Production Cross Section
57-La-136g
57-La-136m9
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
58-Ce-139m