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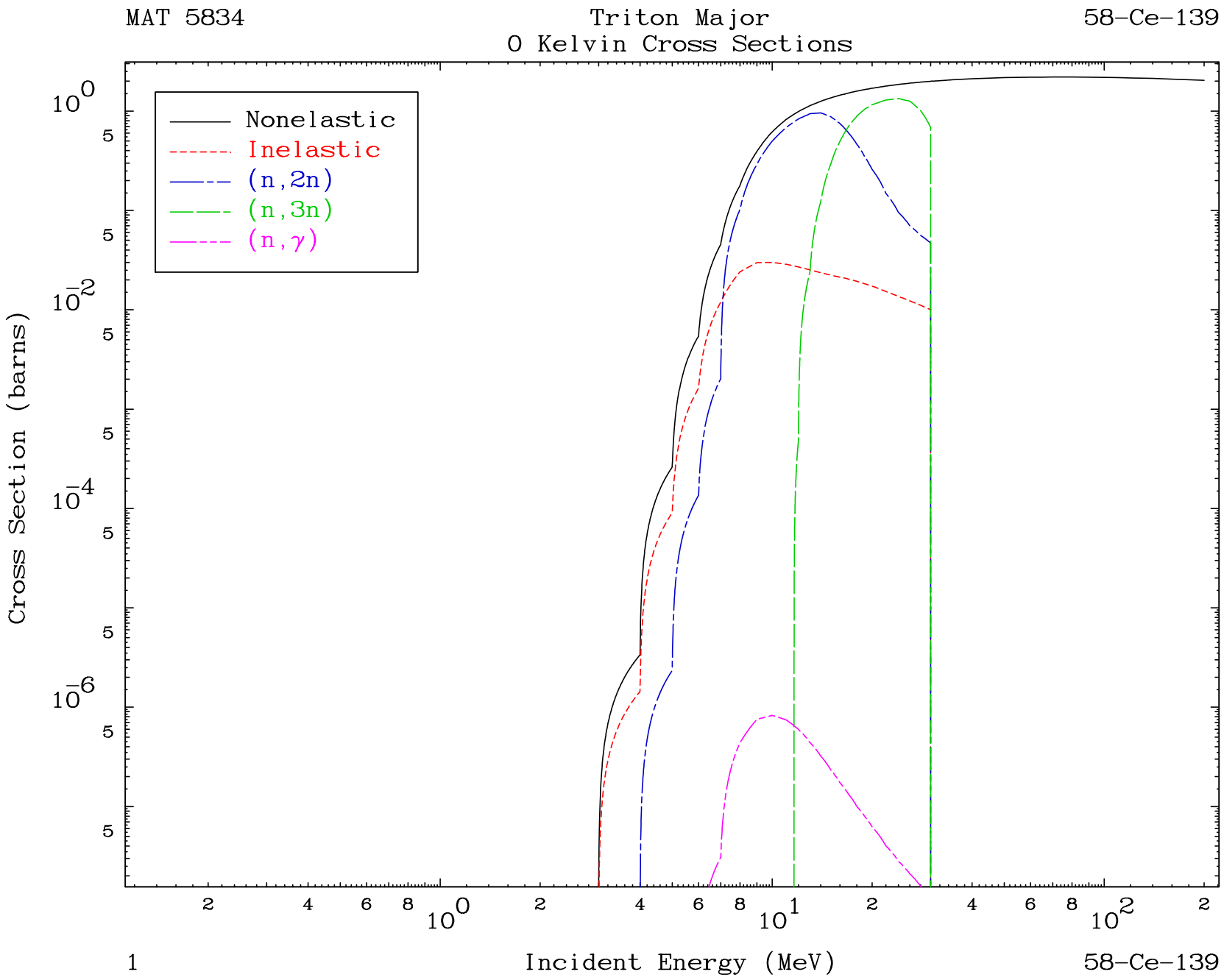
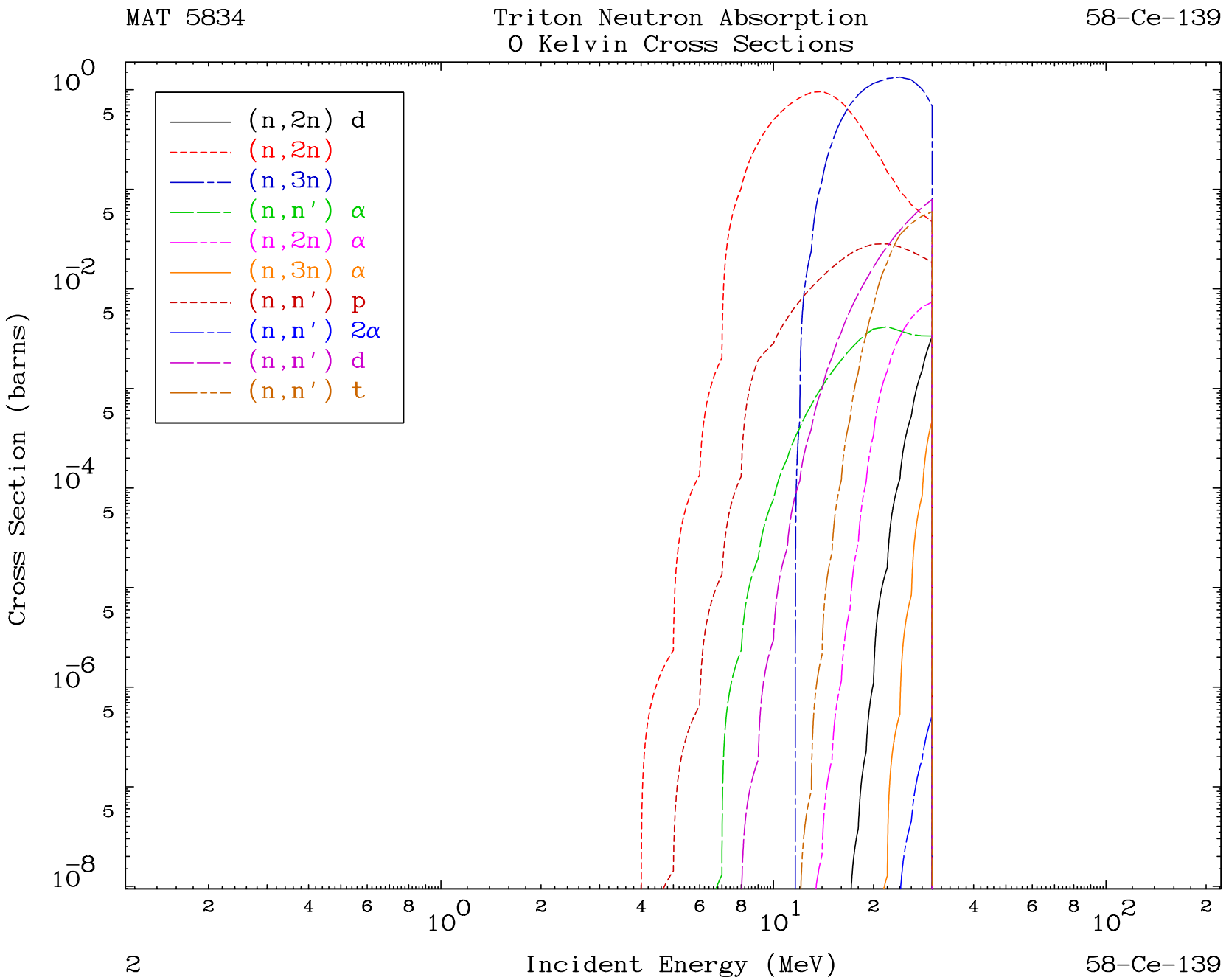
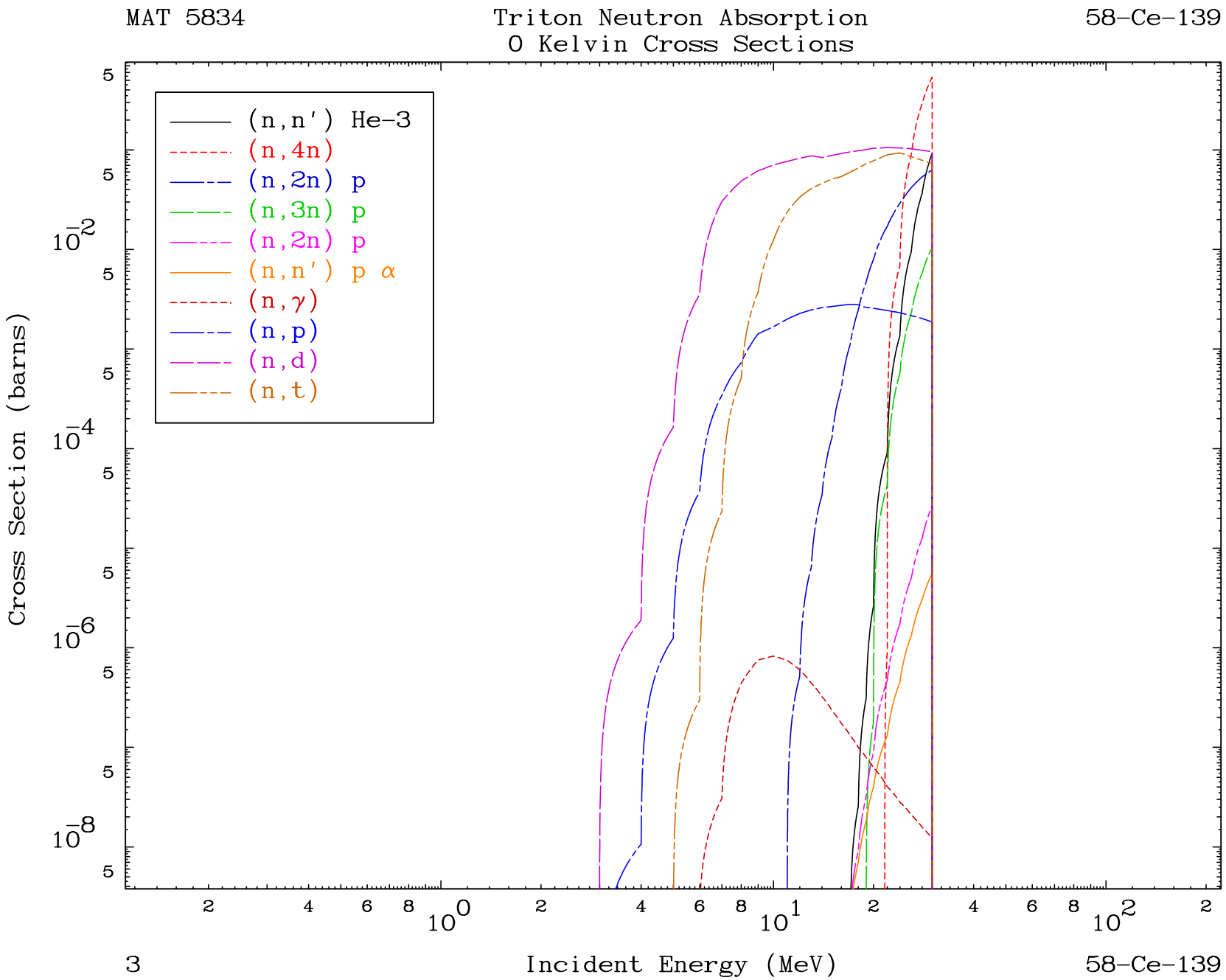
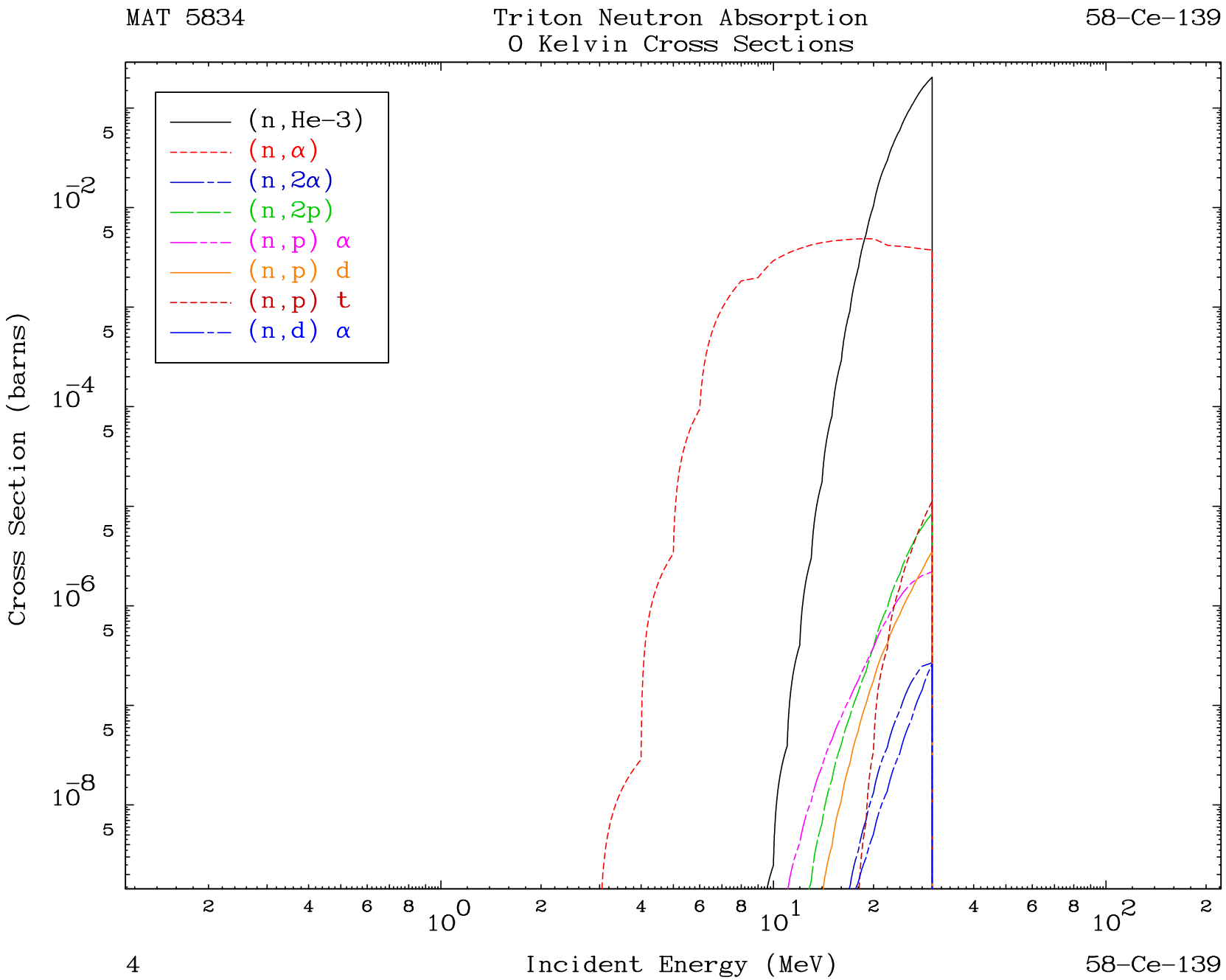
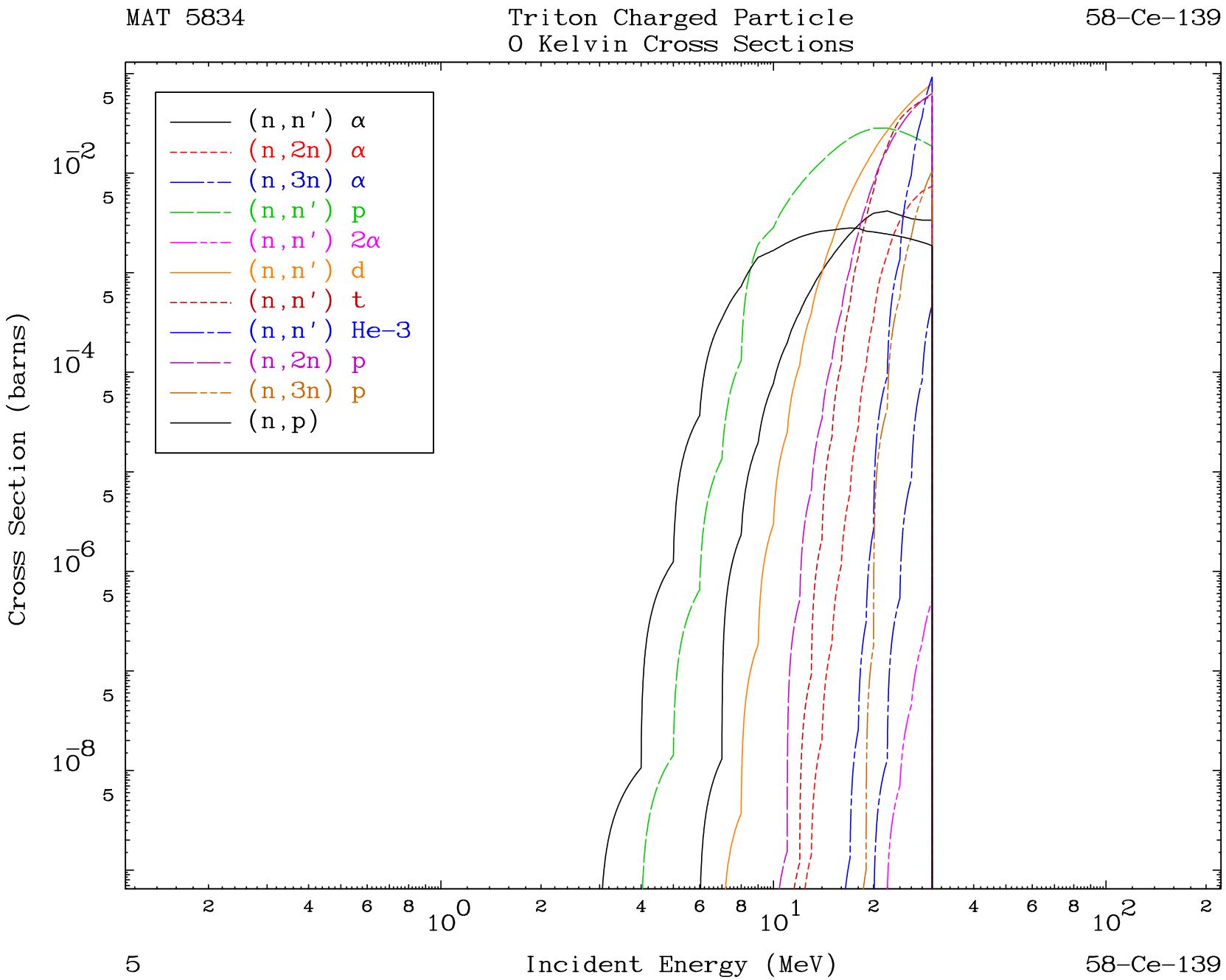
Press Mouse Button to Start

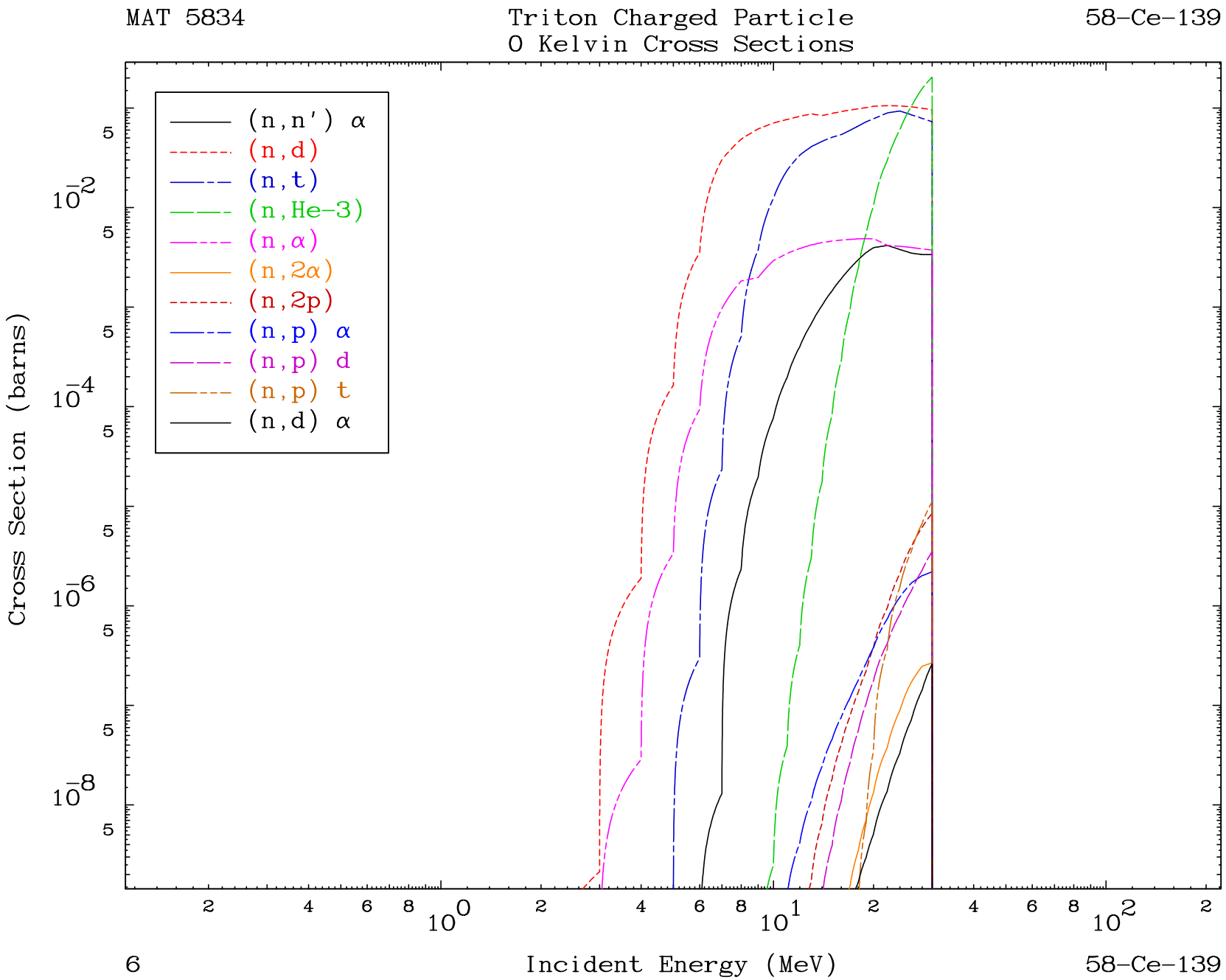

MAT 5834
Triton Major
58-Ce-139
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-139
1

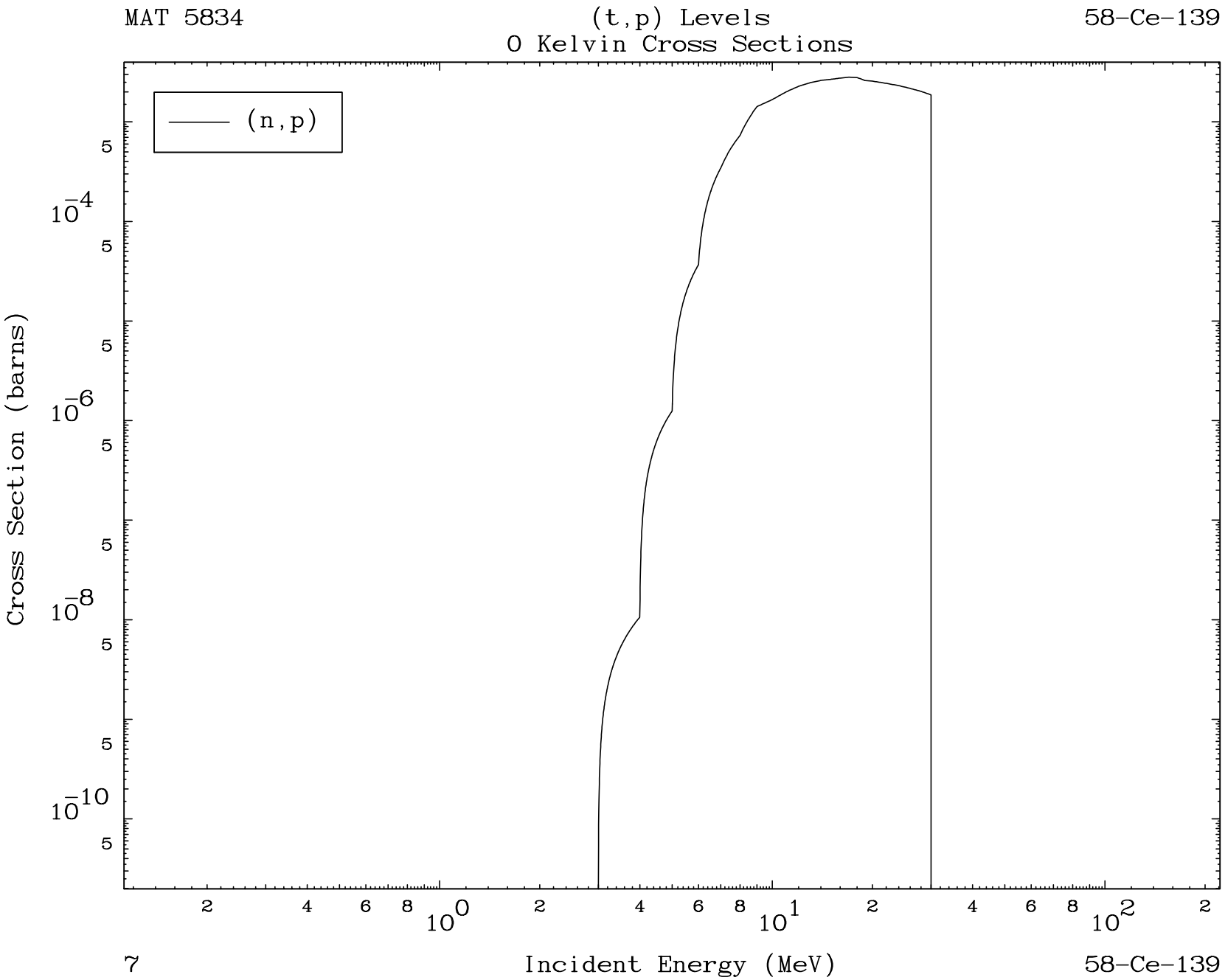

MAT 5834
Triton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-139
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
58-Ce-139
2

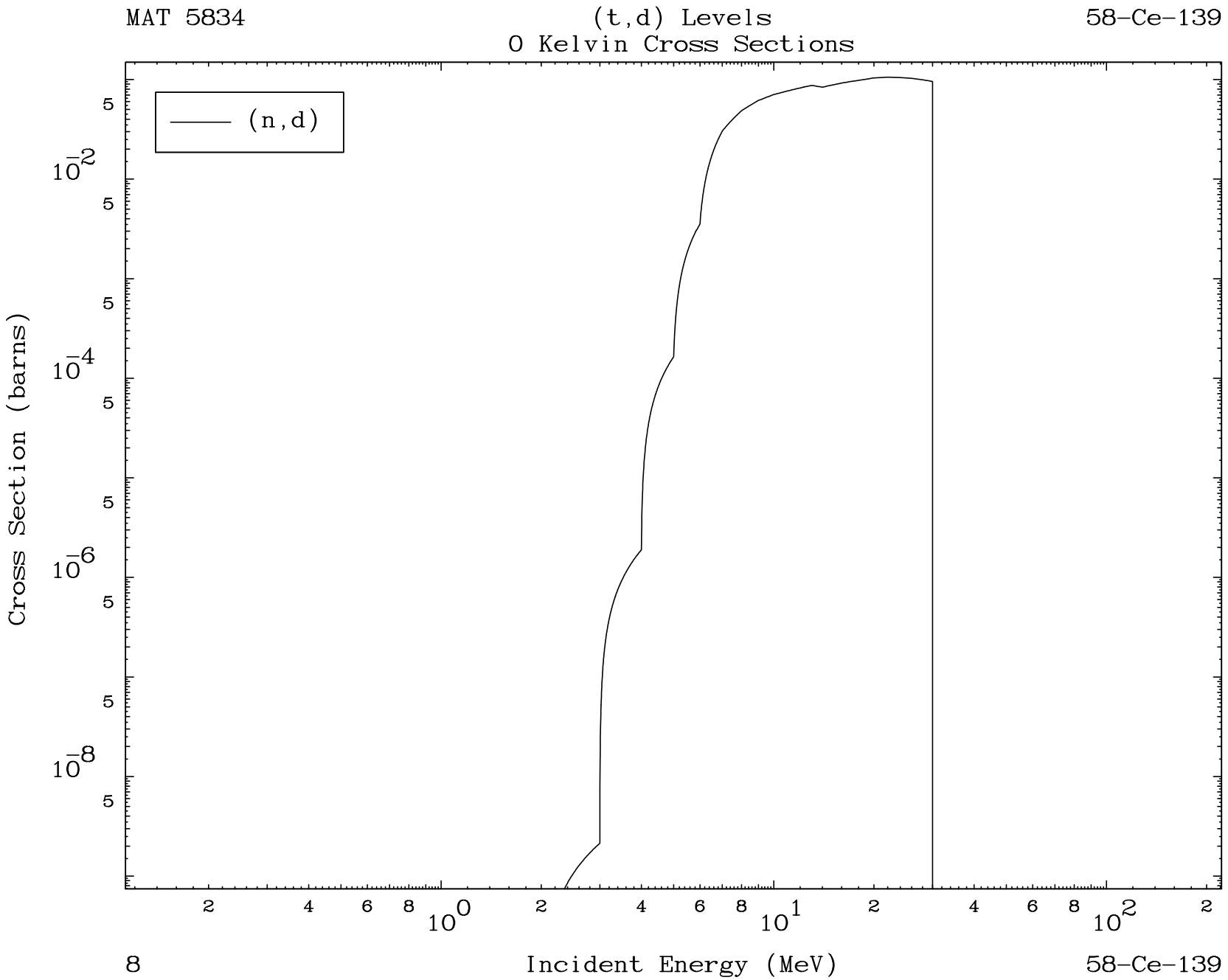

MAT 5834
Triton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-139
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
58-Ce-139

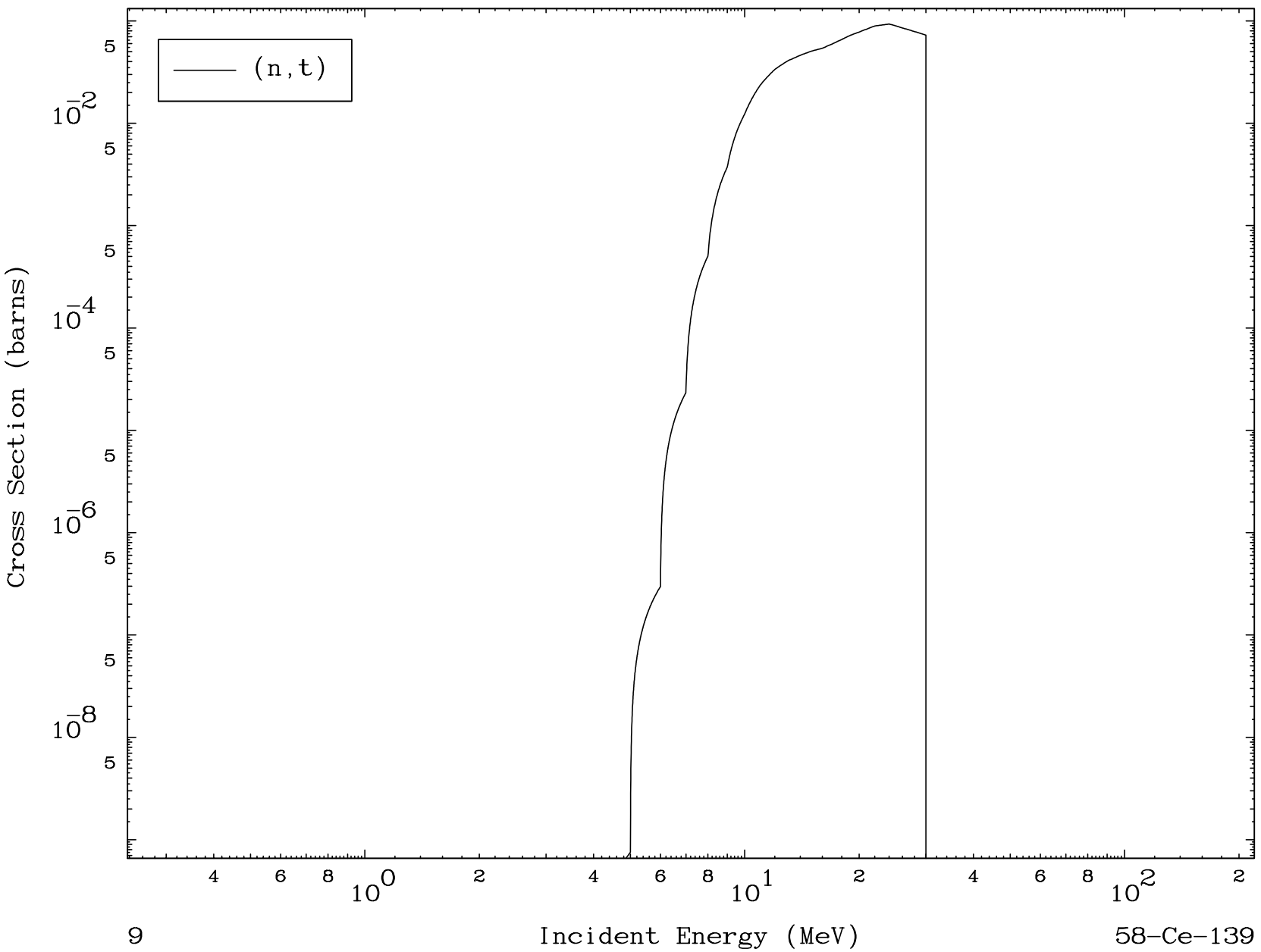

MAT 5834
Triton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-139
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
58-Ce-139

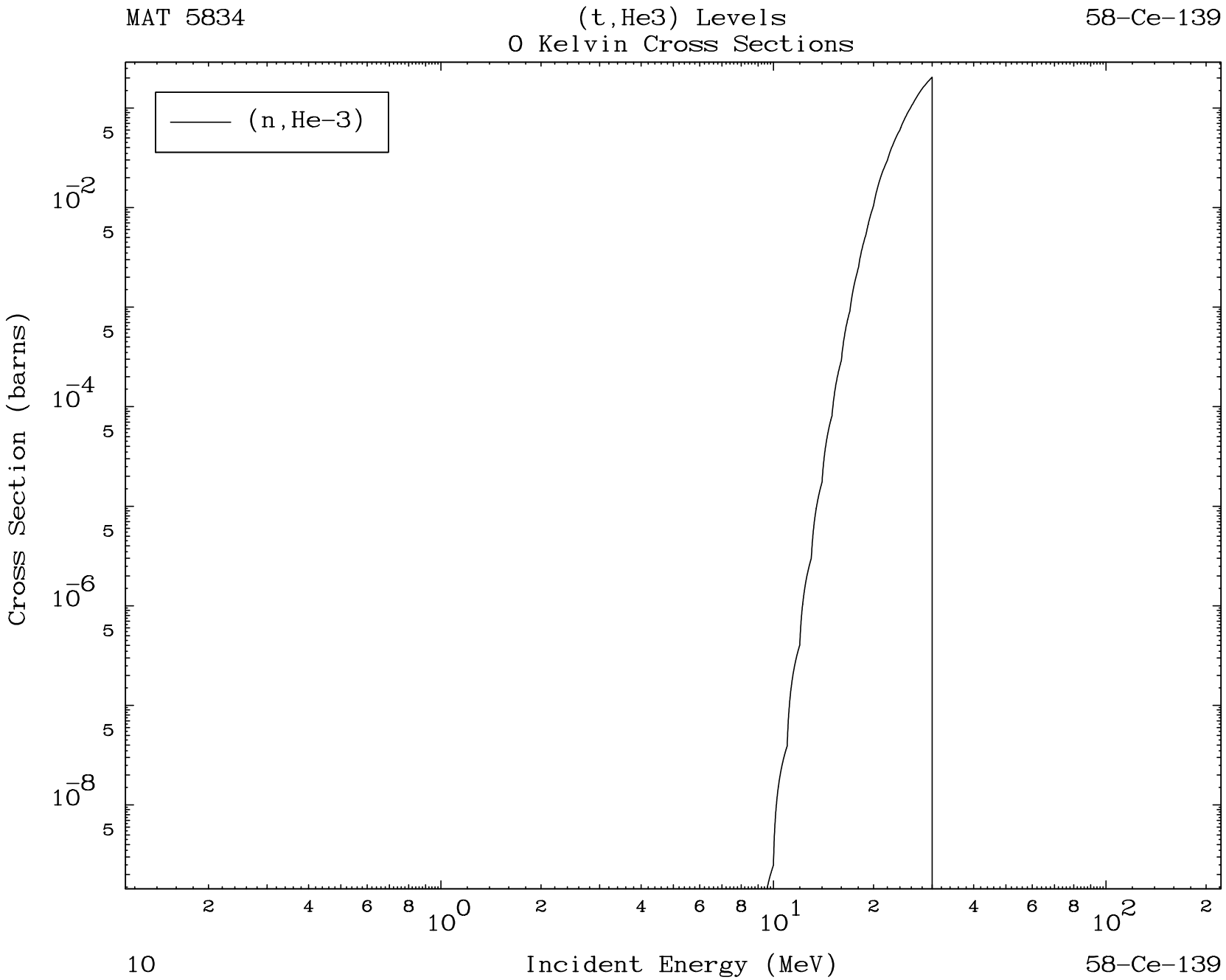

MAT 5834
Triton Charged Particle
0 Kelvin Cross Sections
58-Ce-139
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
5
58-Ce-139

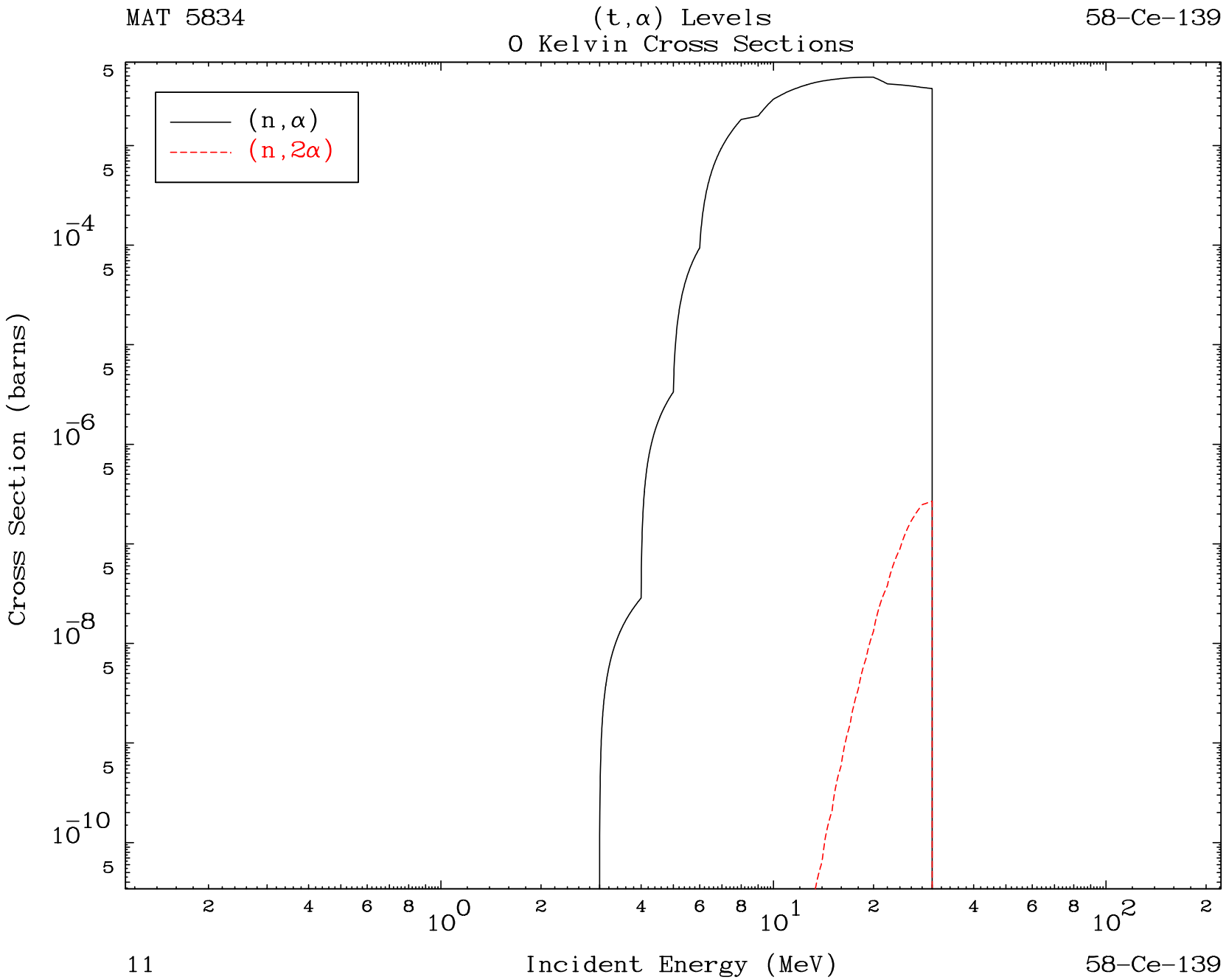

MAT 5834
Triton Charged Particle
0 Kelvin Cross Sections
58-Ce-139
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
58-Ce-139

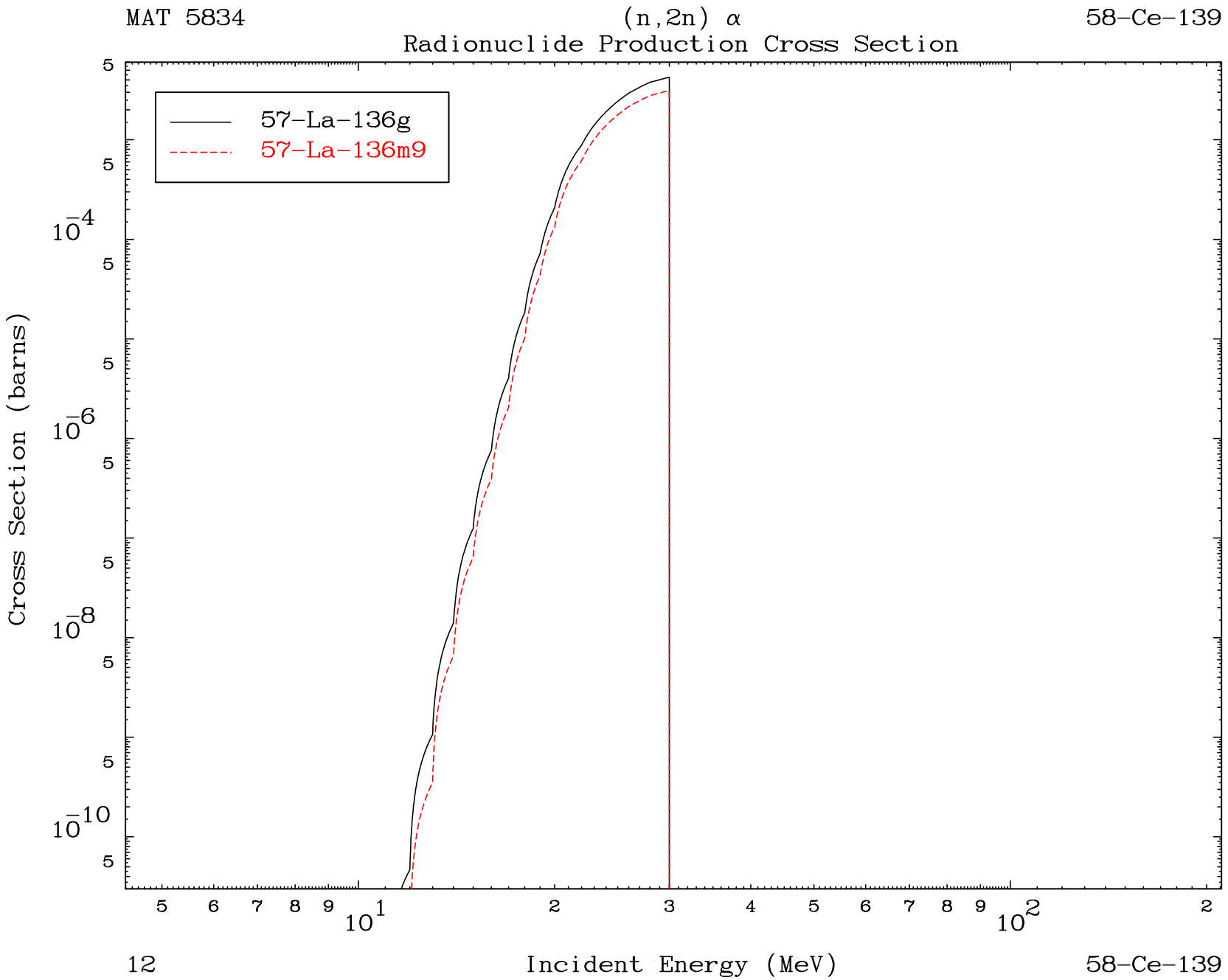

MAT 5834
(t,p) Levels
58-Ce-139
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
4
6
8
100
101
102
Incident Energy (MeV)
7
58-Ce-139

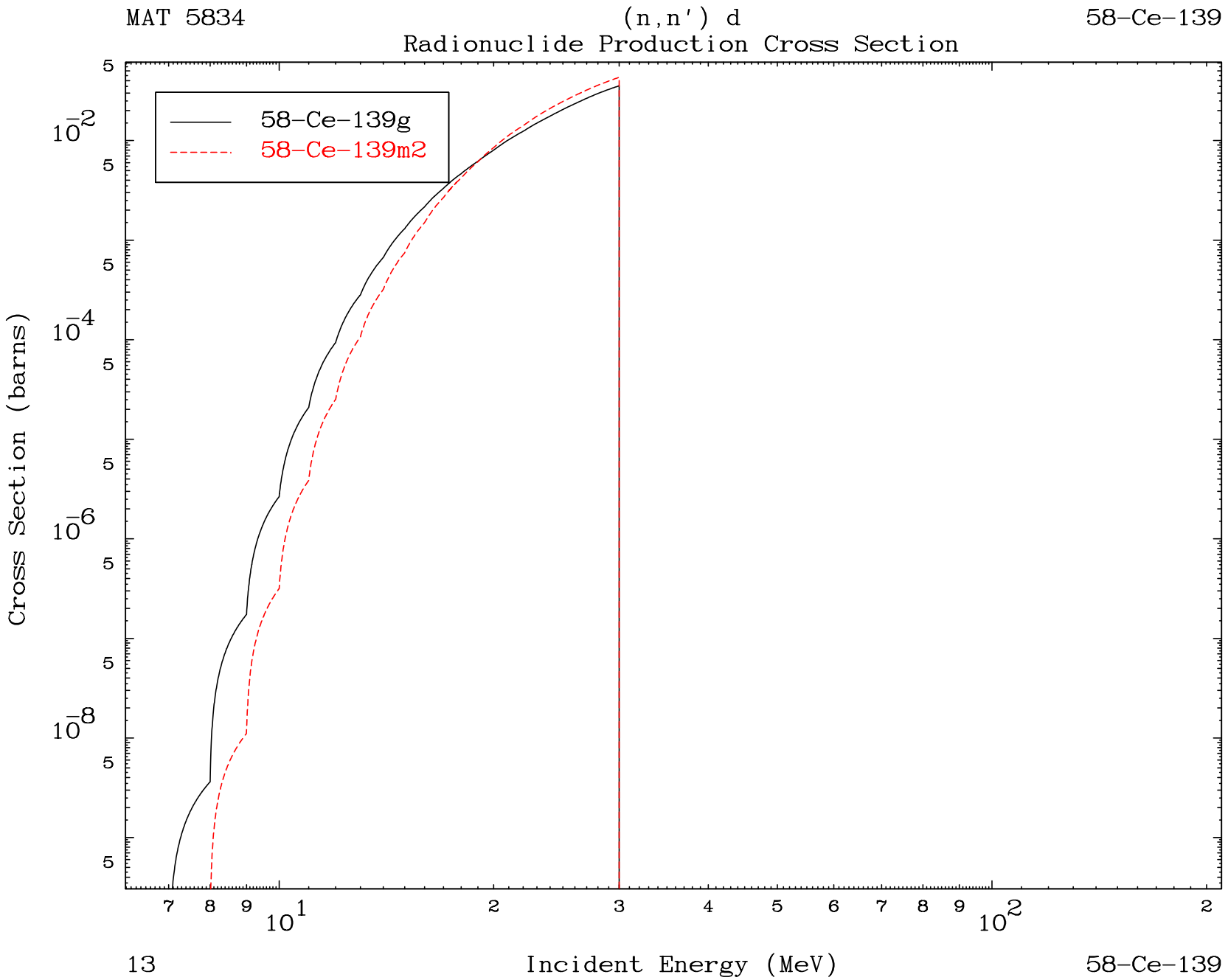

MAT 5834
(t,d) Levels
58-Ce-139
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
58-Ce-139

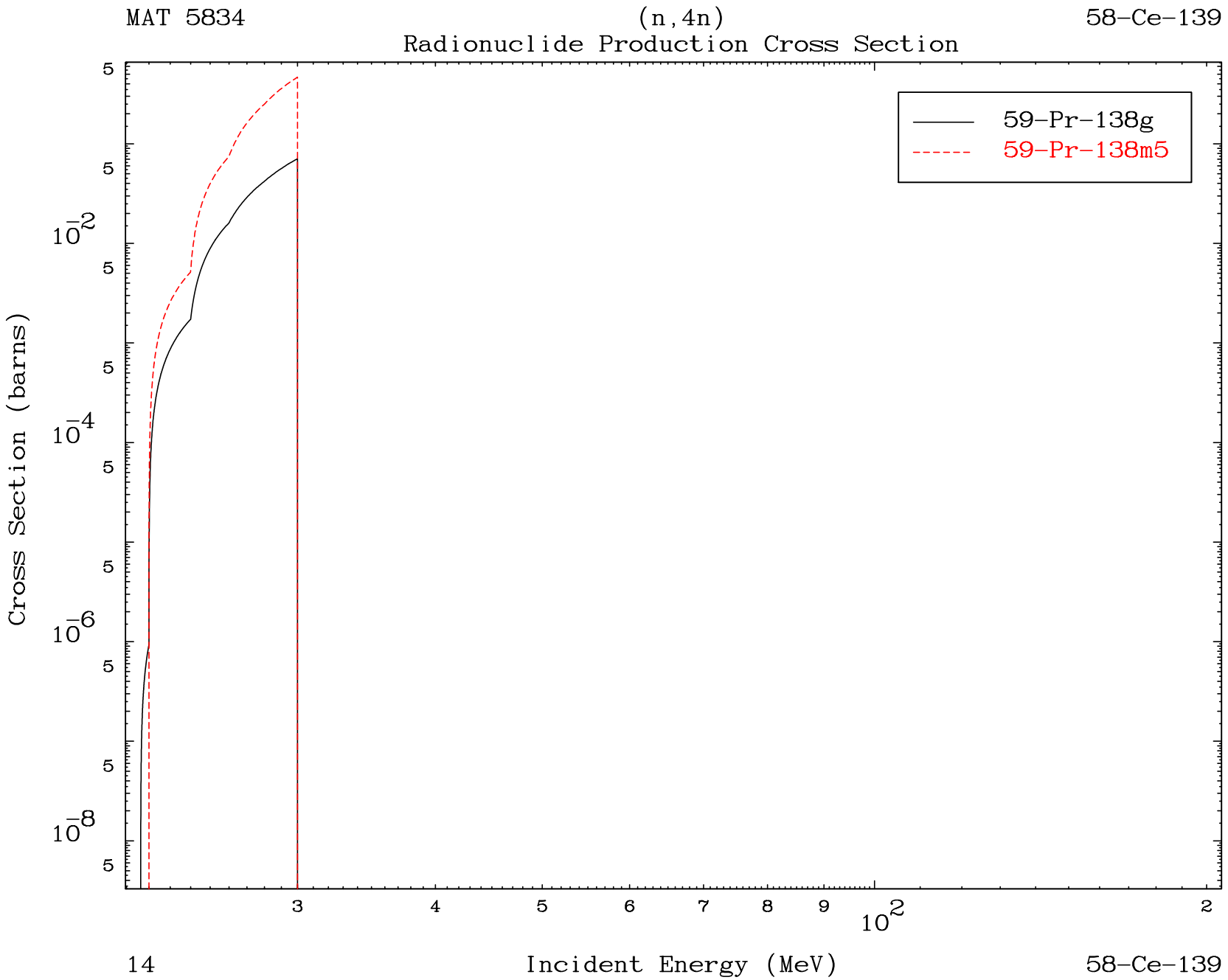

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4 6 8 100 2 4 6 8 101 2 4 6 8 102 2
Incident Energy (MeV)

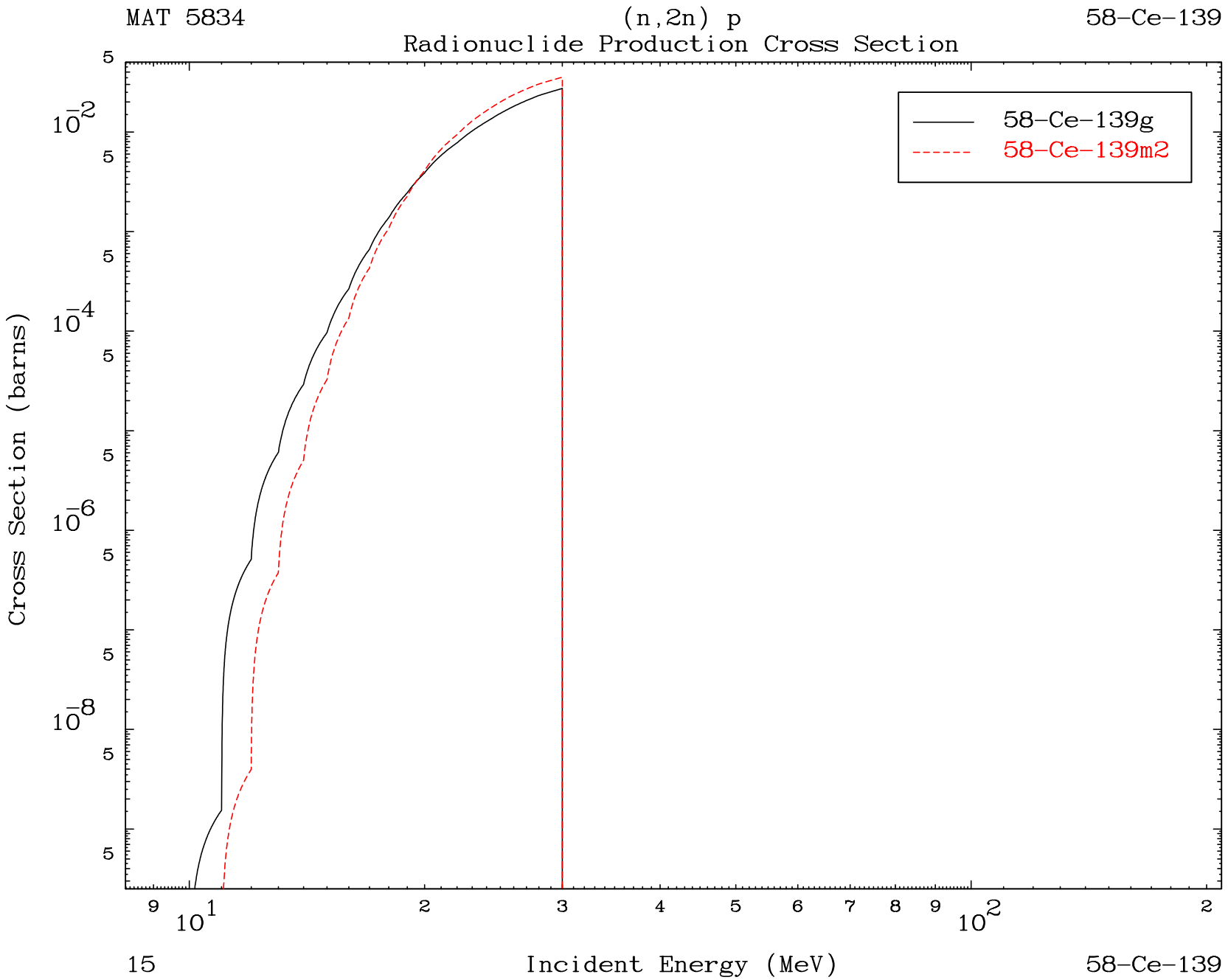

MAT 5834
(t,He3) Levels
58-Ce-139
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-139

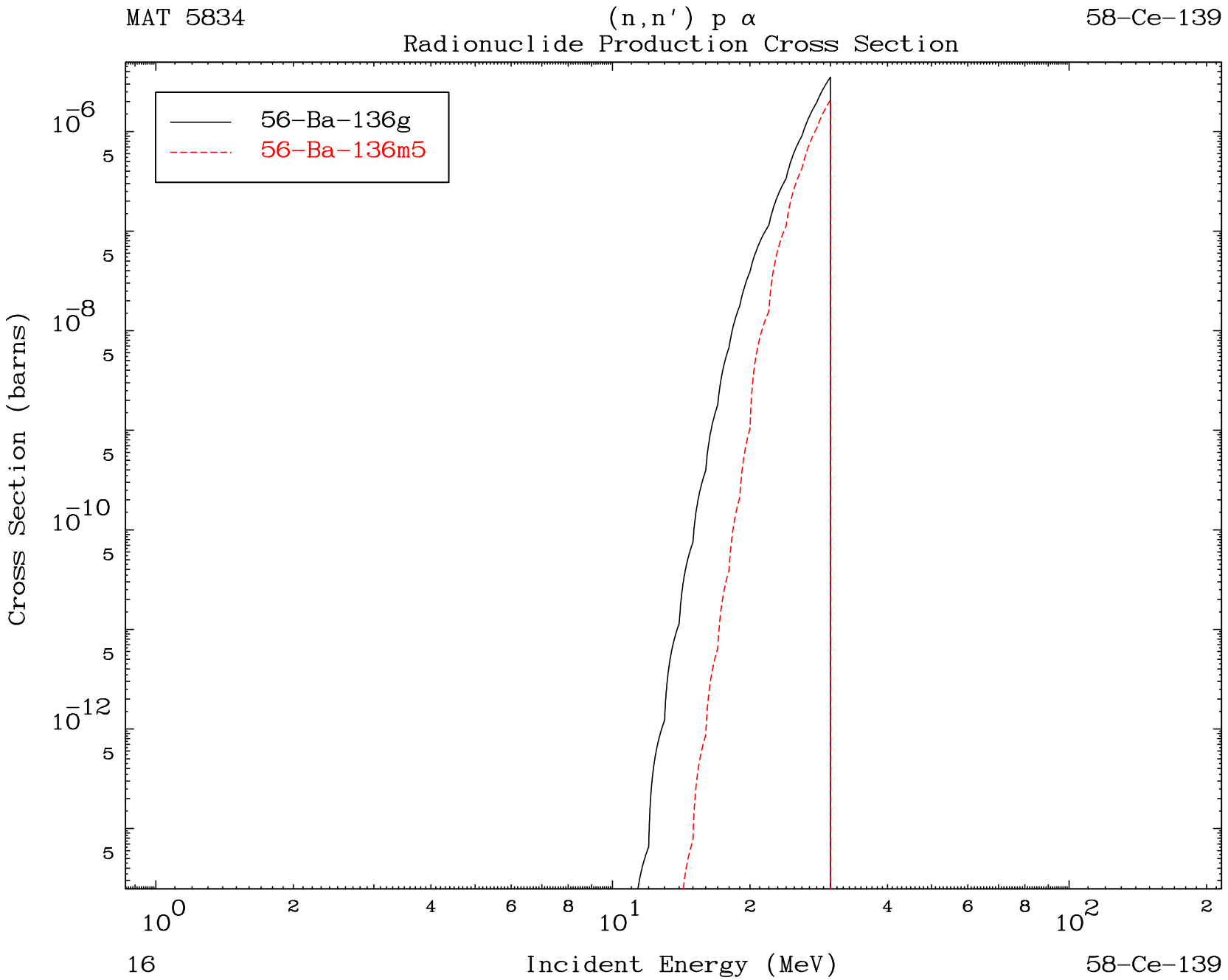

MAT 5834
(t,α) Levels
58-Ce-139
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
58-Ce-139

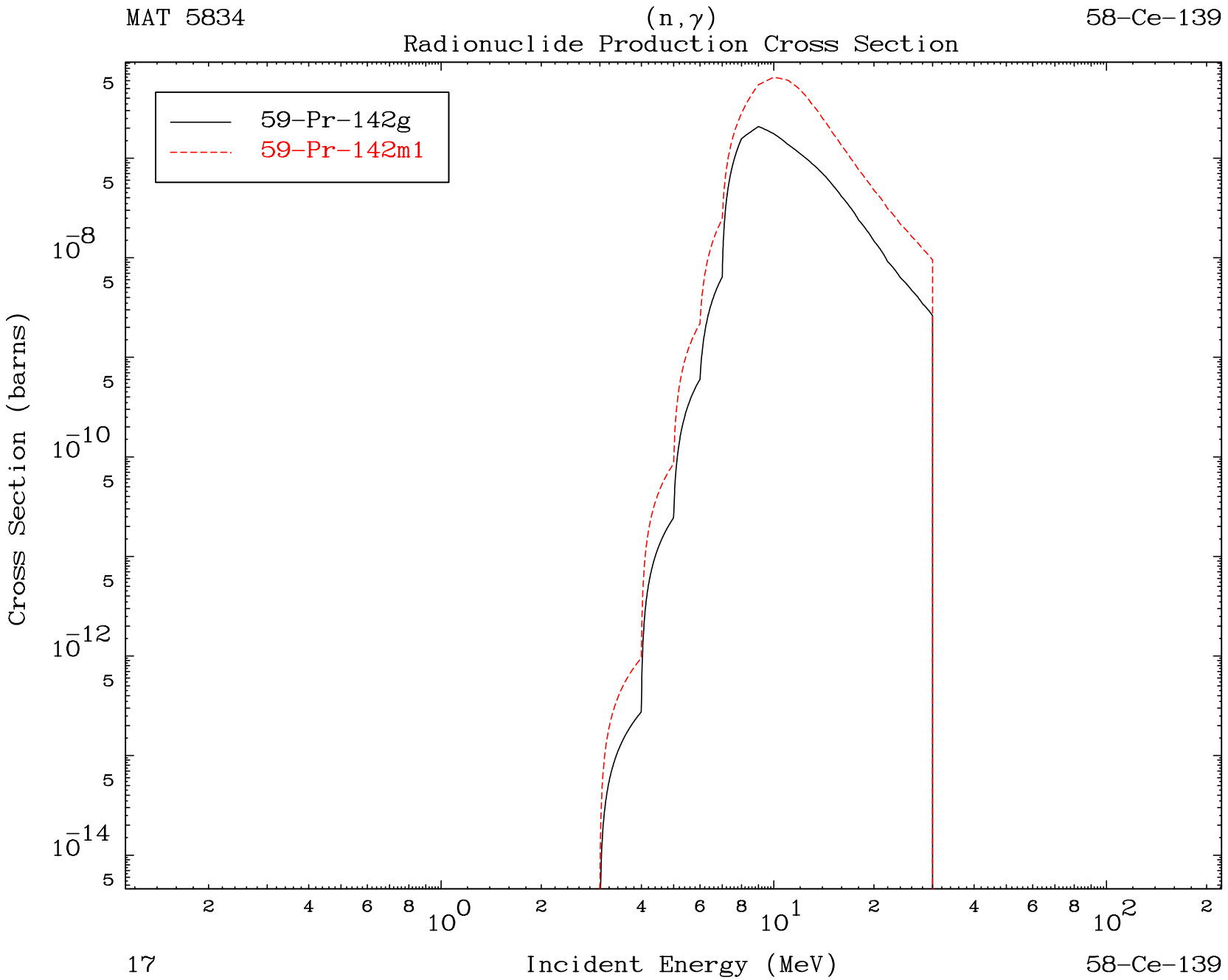

MAT 5834
(n,2n) α
58-Ce-139
Radionuclide Production Cross Section
57-La-136g
57-La-136m9
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
12
58-Ce-139

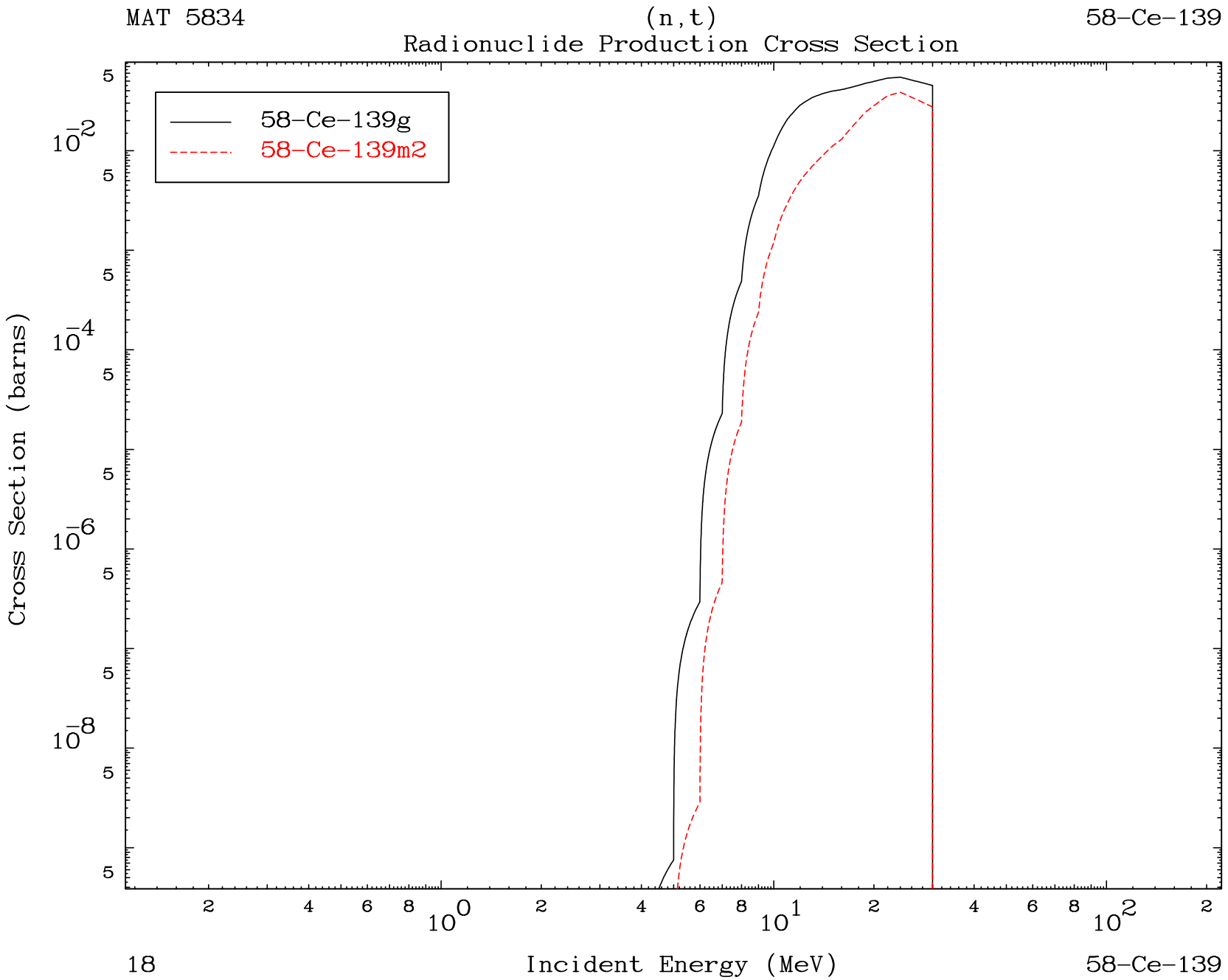

MAT 5834
(n,n') d
58-Ce-139
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
Incident Energy (MeV)
13
58-Ce-139

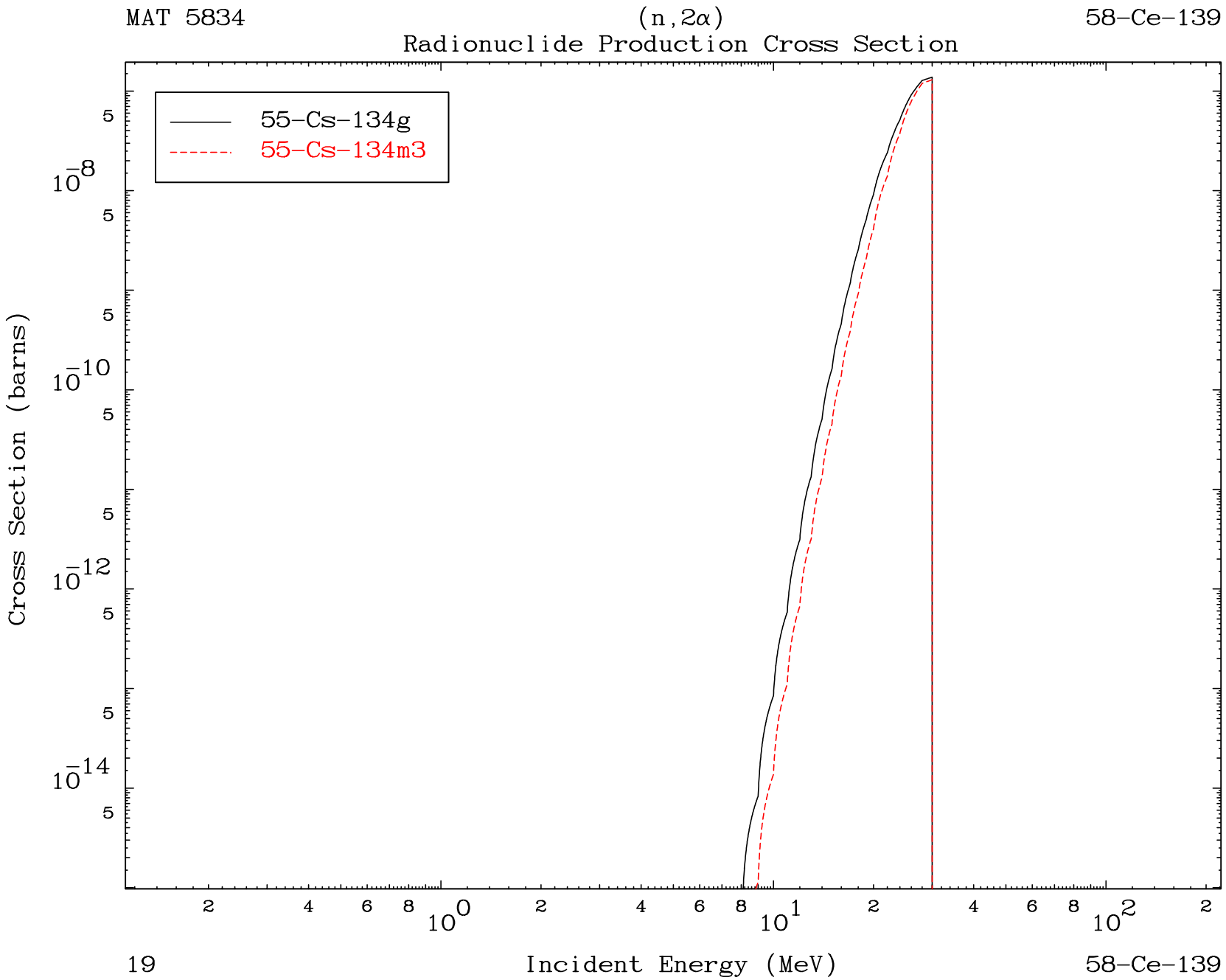

MAT 5834
(n,4n)
58-Ce-139
Radionuclide Production Cross Section
59-Pr-138g
59-Pr-138m5
Cross Section (barns)
10-2
10-4
10-6
10-8
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
58-Ce-139

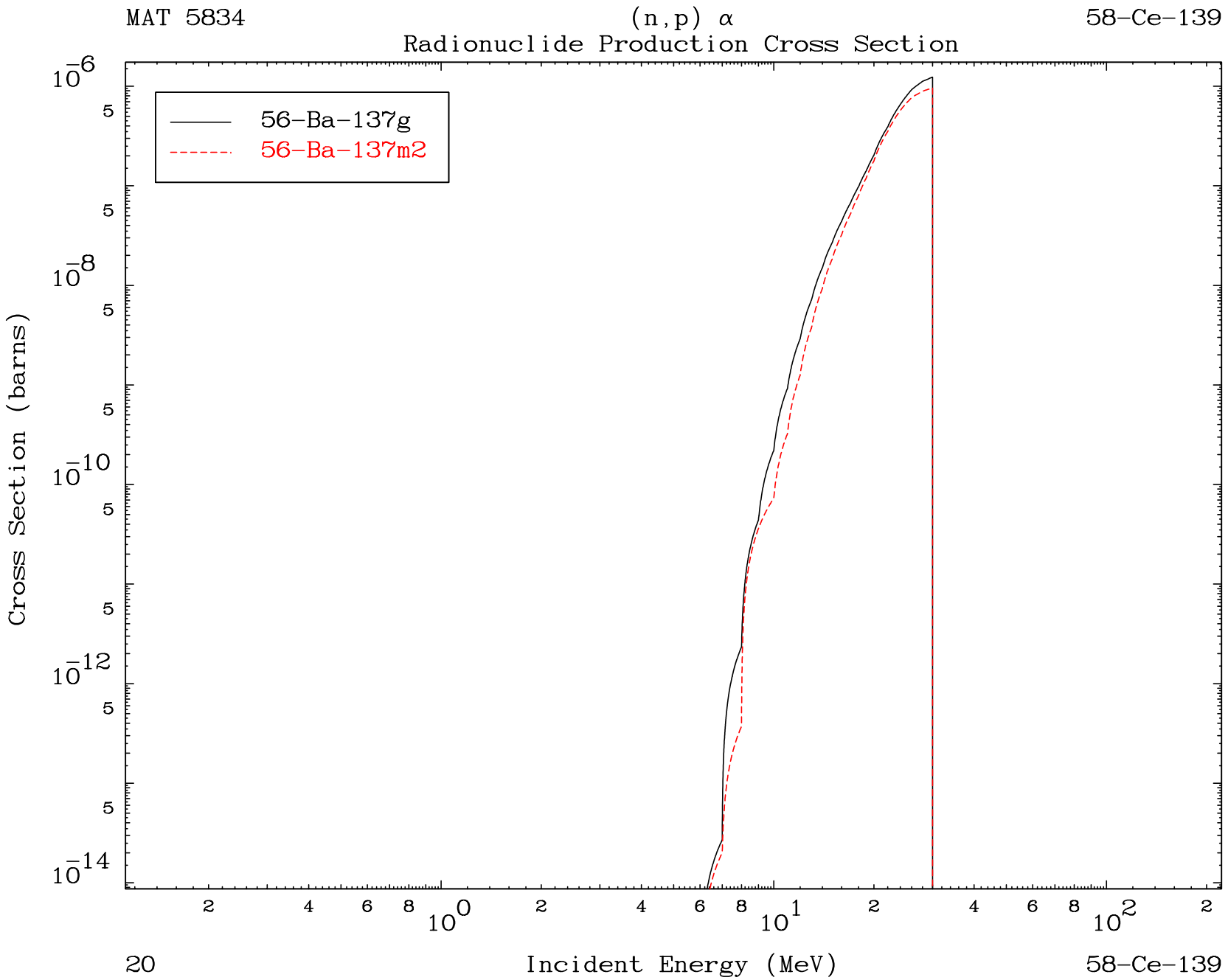

MAT 5834
(n,2n) p
58-Ce-139
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
Incident Energy (MeV)
15
58-Ce-139

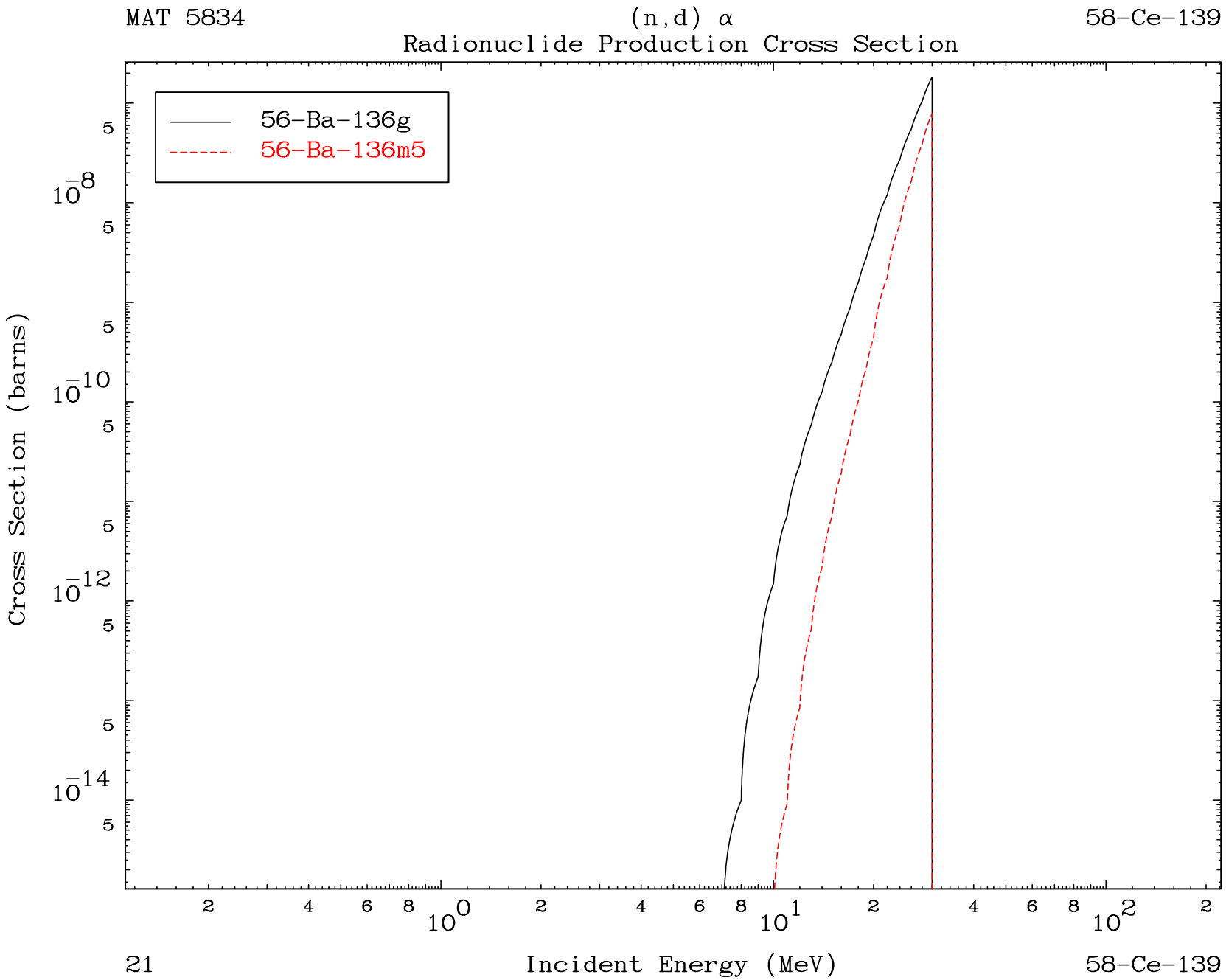

MAT 5834
(n,n') p α
58-Ce-139
Radionuclide Production Cross Section
56-Ba-136g
56-Ba-136m5
Cross Section (barns)
Incident Energy (MeV)
16
58-Ce-139


MAT 5834
(n,γ)
58-Ce-139
Radionuclide Production Cross Section
59-Pr-142g
59-Pr-142m1
Cross Section (barns)
10-8
10-10
10-12
10-14
100
101
102
Incident Energy (MeV)
17
58-Ce-139


MAT 5834
(n,t)
58-Ce-139
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
Incident Energy (MeV)
18
58-Ce-139


MAT 5834
(n,2α)
58-Ce-139
Radionuclide Production Cross Section
55-Cs-134g
55-Cs-134m3
Cross Section (barns)
Incident Energy (MeV)
19
58-Ce-139


MAT 5834
(n,p) α
58-Ce-139
Radionuclide Production Cross Section
56-Ba-137g
56-Ba-137m2
Cross Section (barns)
Incident Energy (MeV)
20
58-Ce-139


MAT 5834
(n,d) α
58-Ce-139
Radionuclide Production Cross Section
56-Ba-136g
56-Ba-136m5
Cross Section (barns)
10-8
10-10
10-12
10-14
100
101
102
Incident Energy (MeV)
21
58-Ce-139