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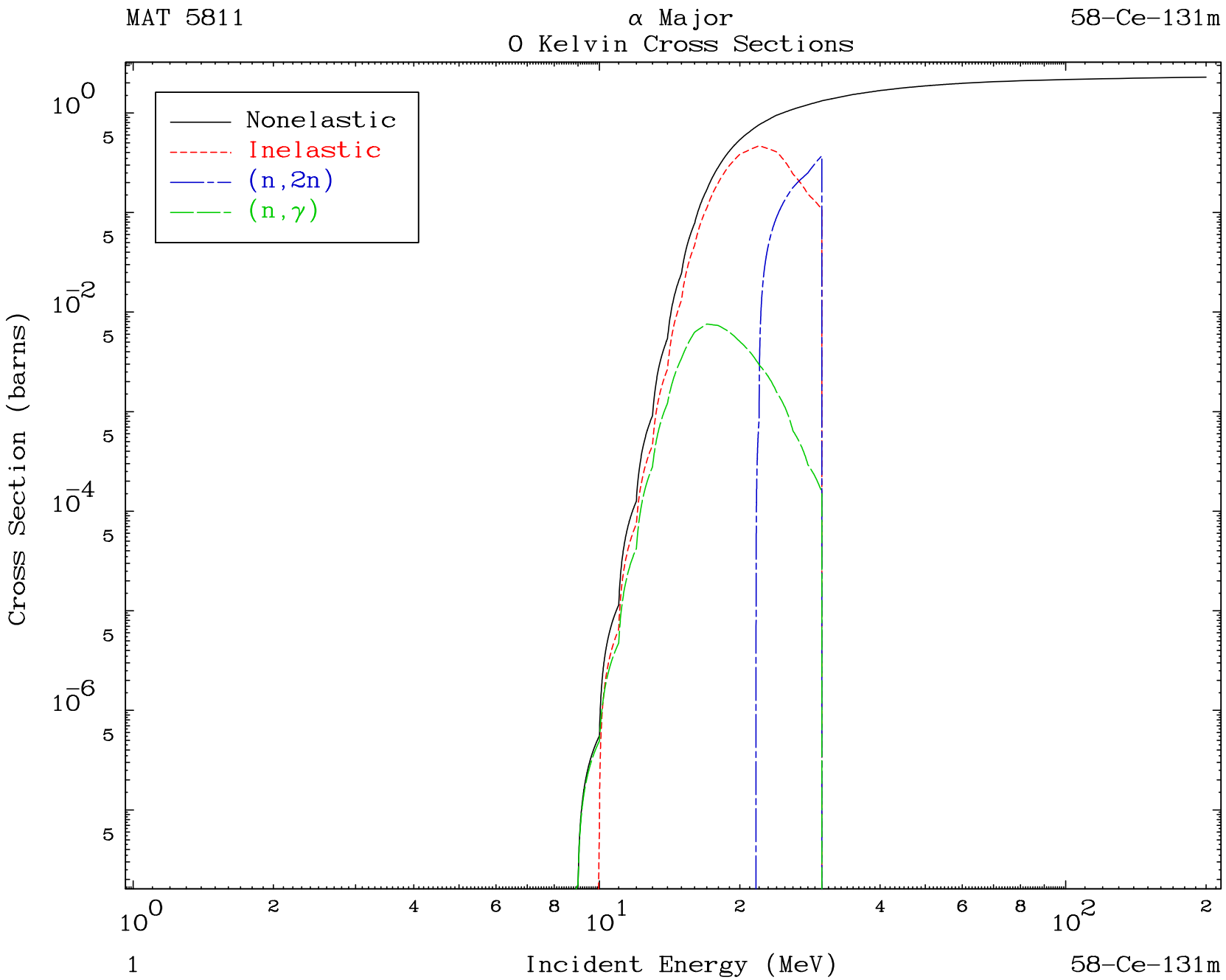
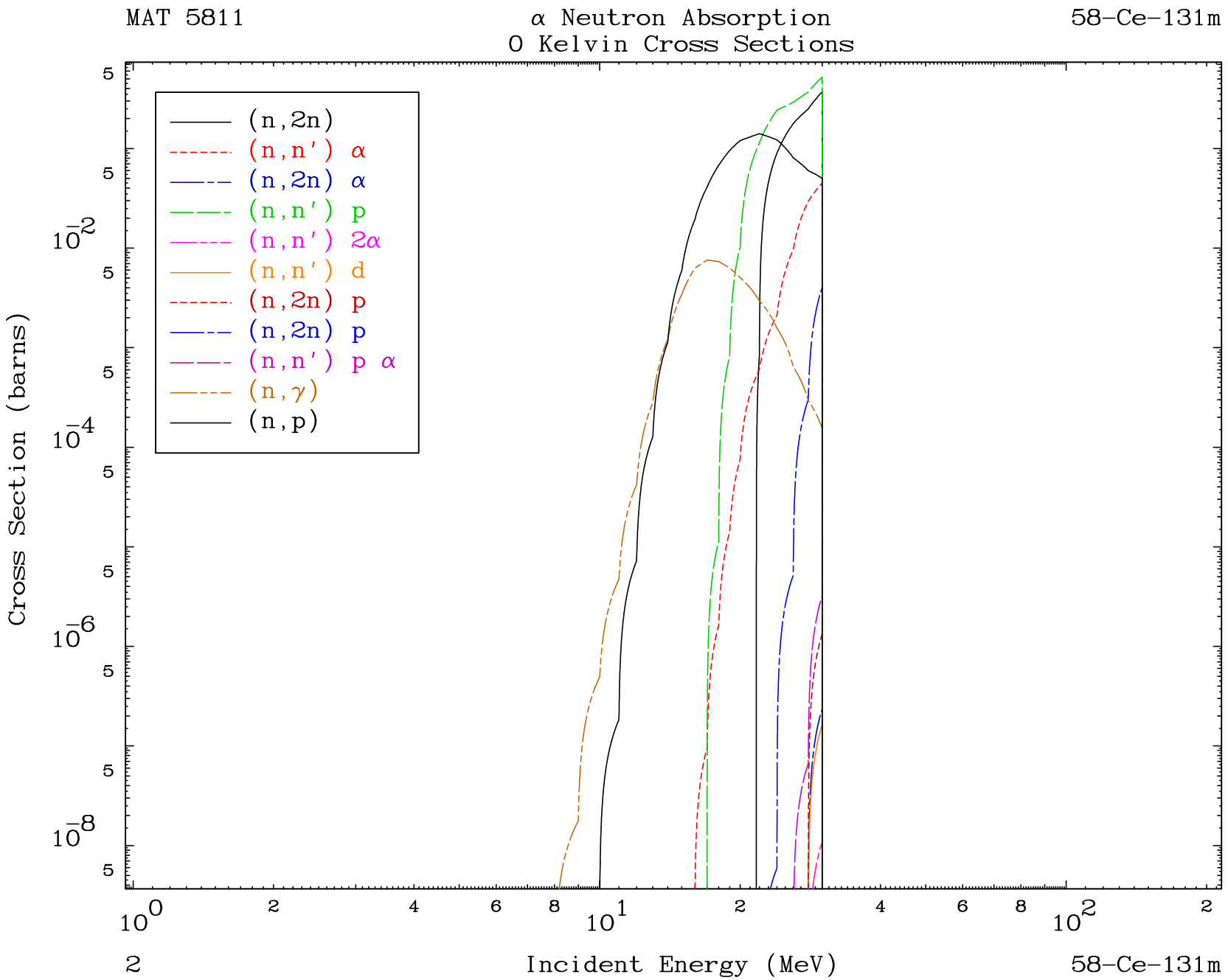
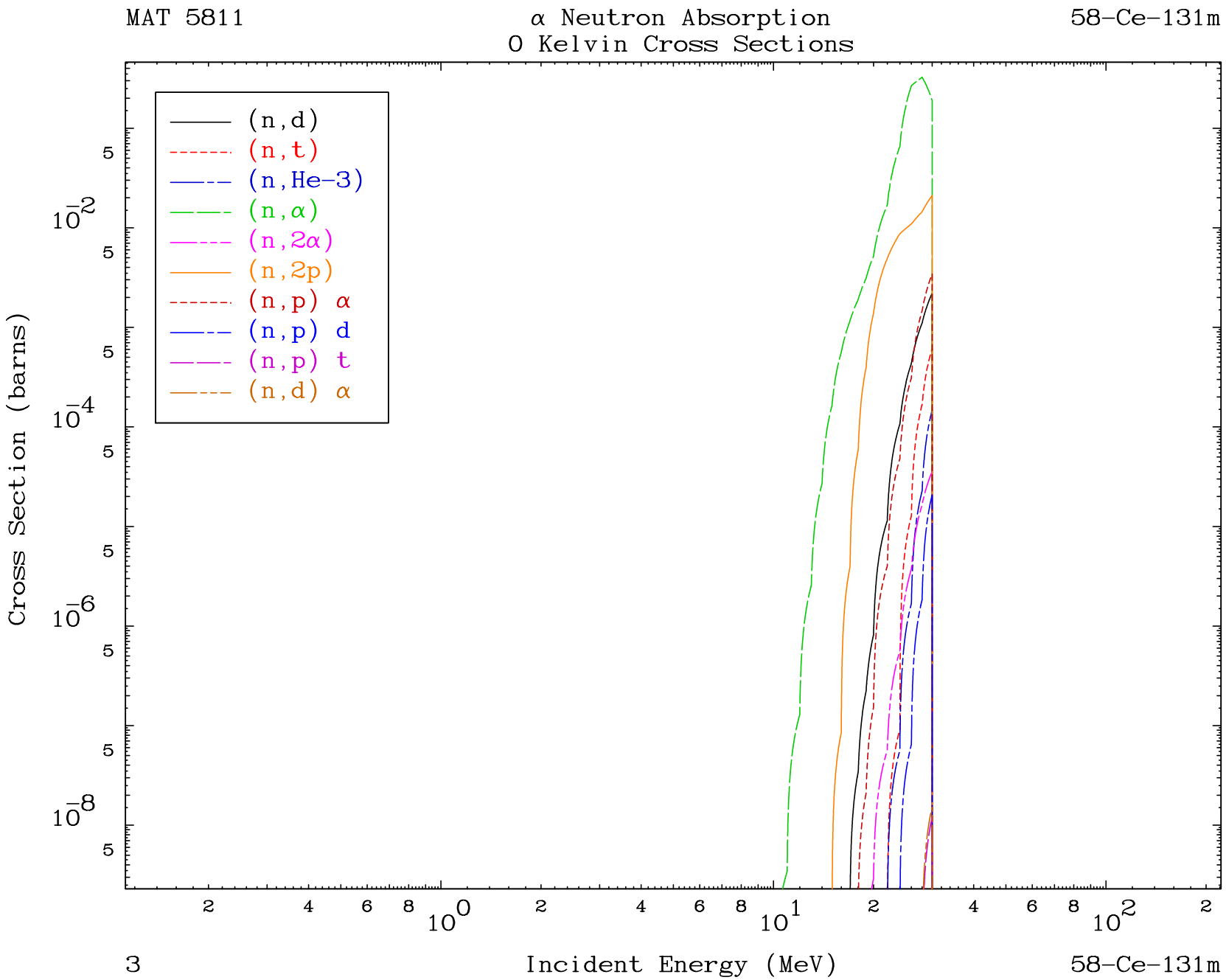
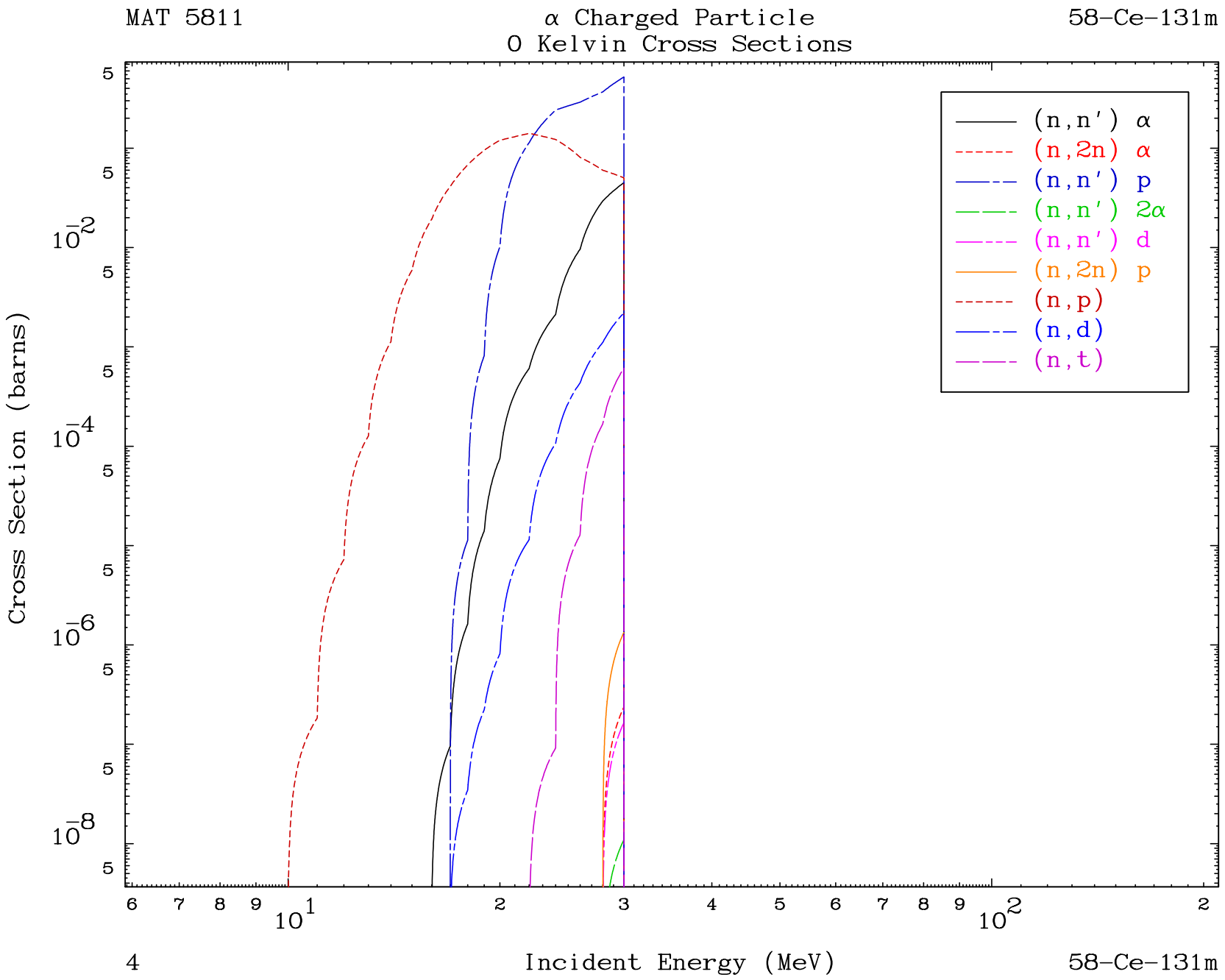
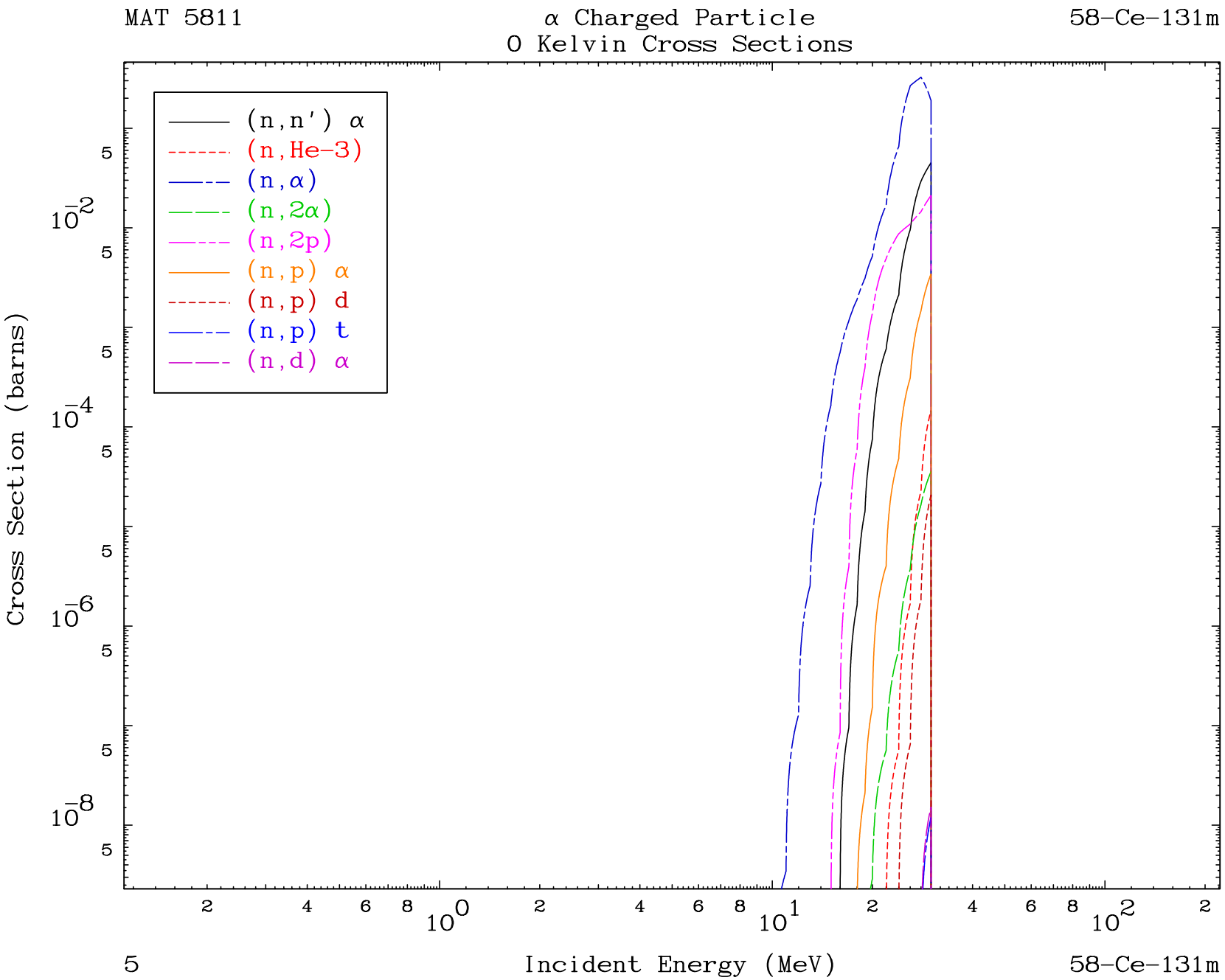
Press Mouse Button to Start

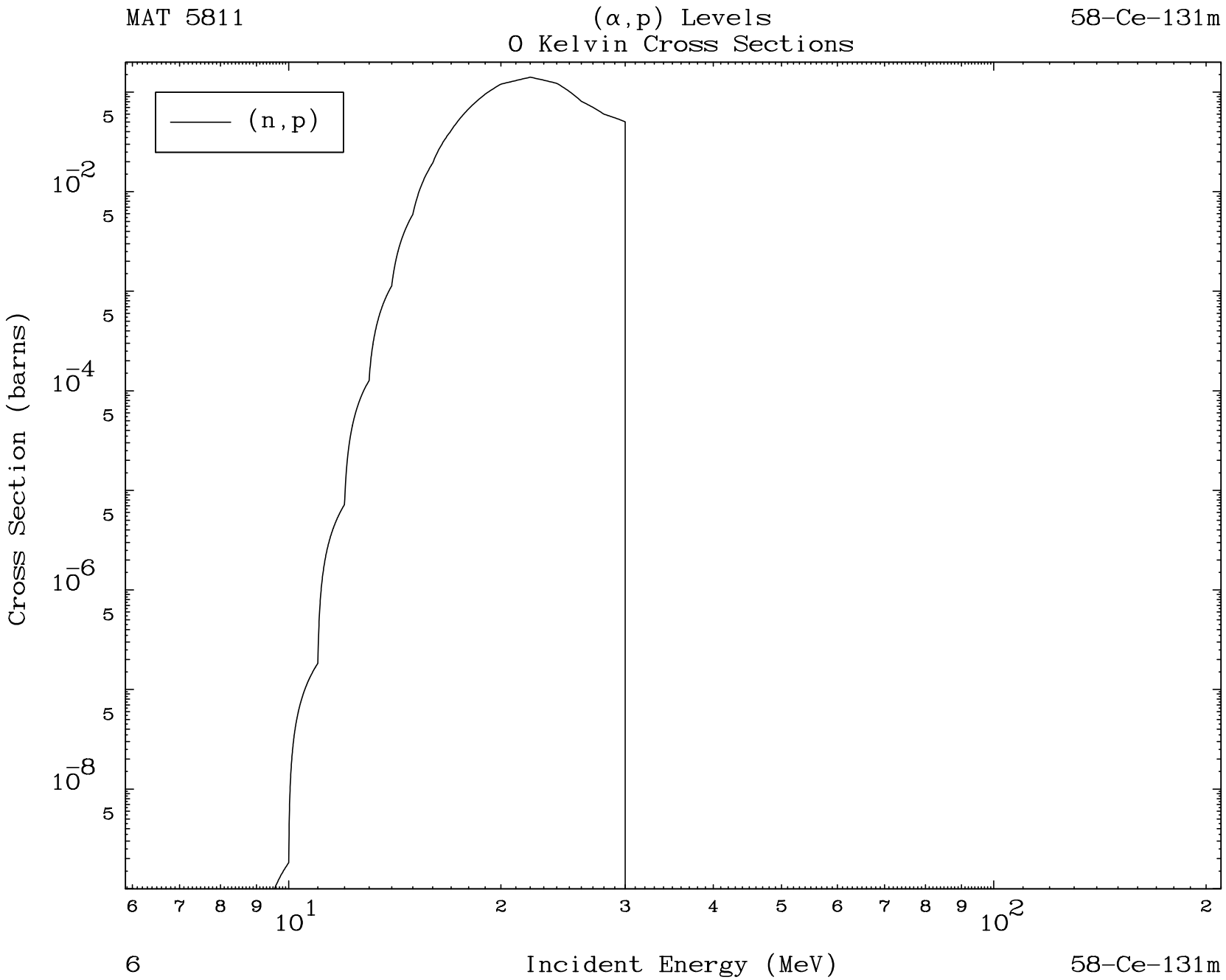

MAT 5811
α Major
58-Ce-131m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-131m

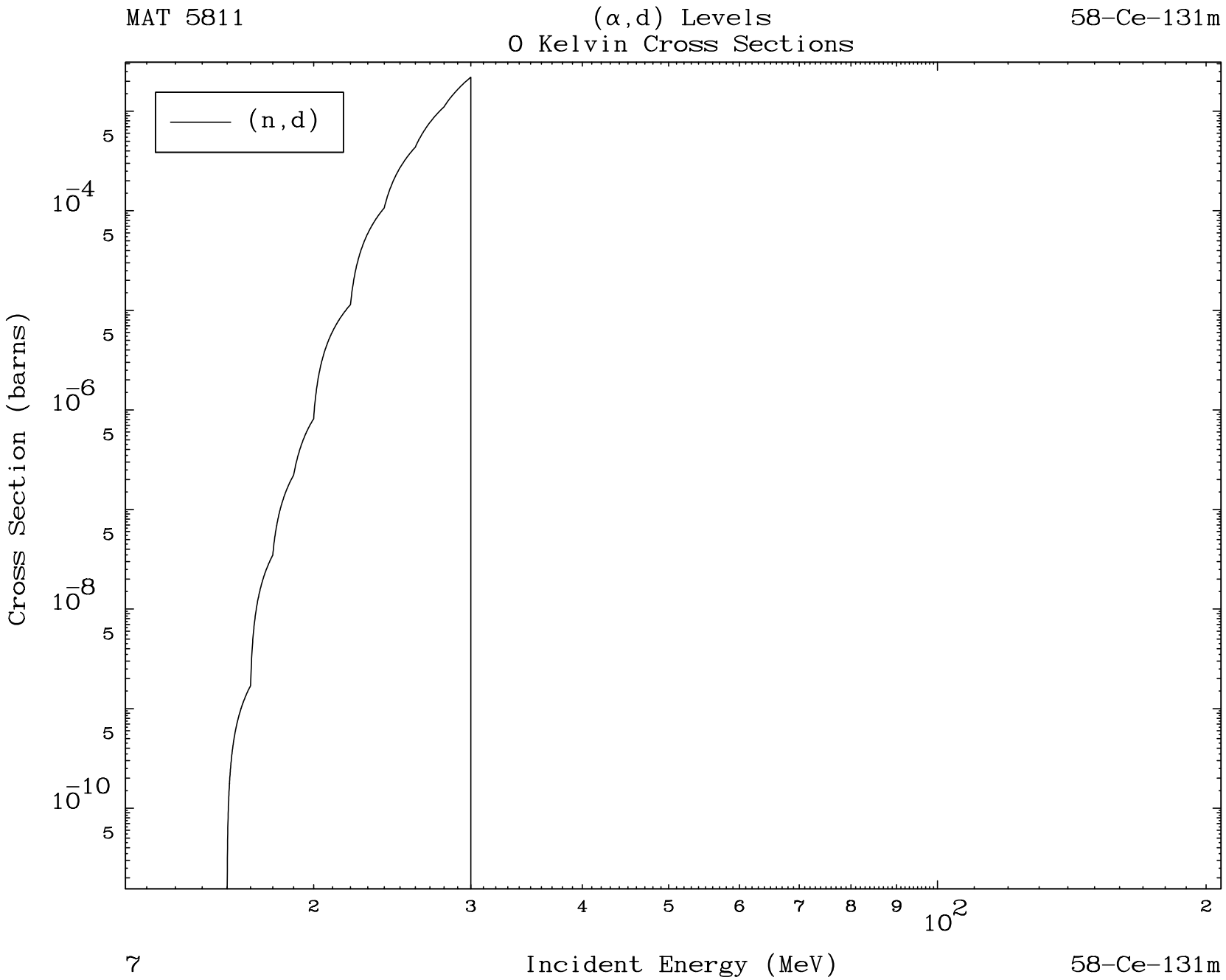

MAT 5811
α Neutron Absorption
0 Kelvin Cross Sections
58-Ce-131m
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-131m

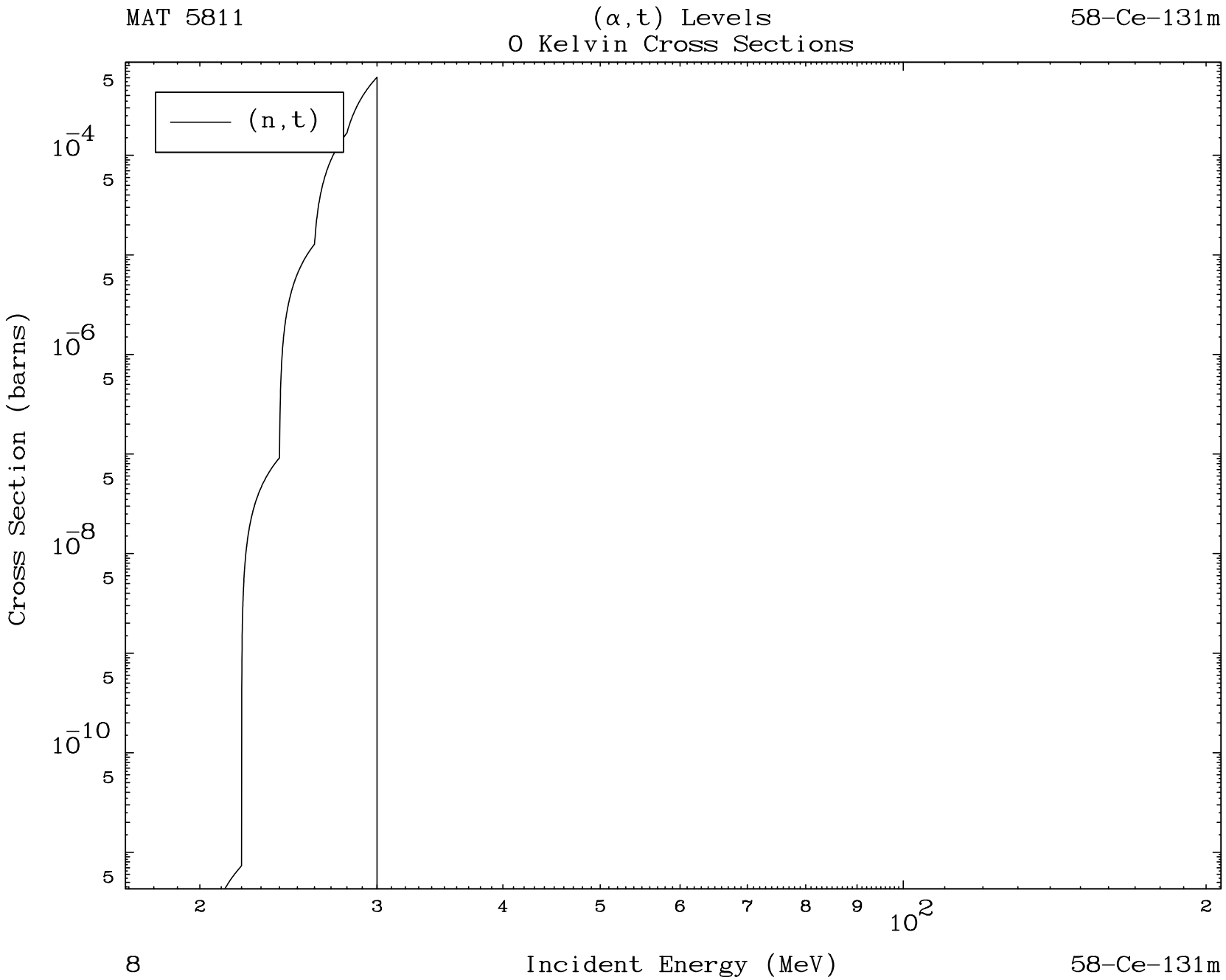

MAT 5811
α Neutron Absorption
0 Kelvin Cross Sections
58-Ce-131m
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
58-Ce-131m

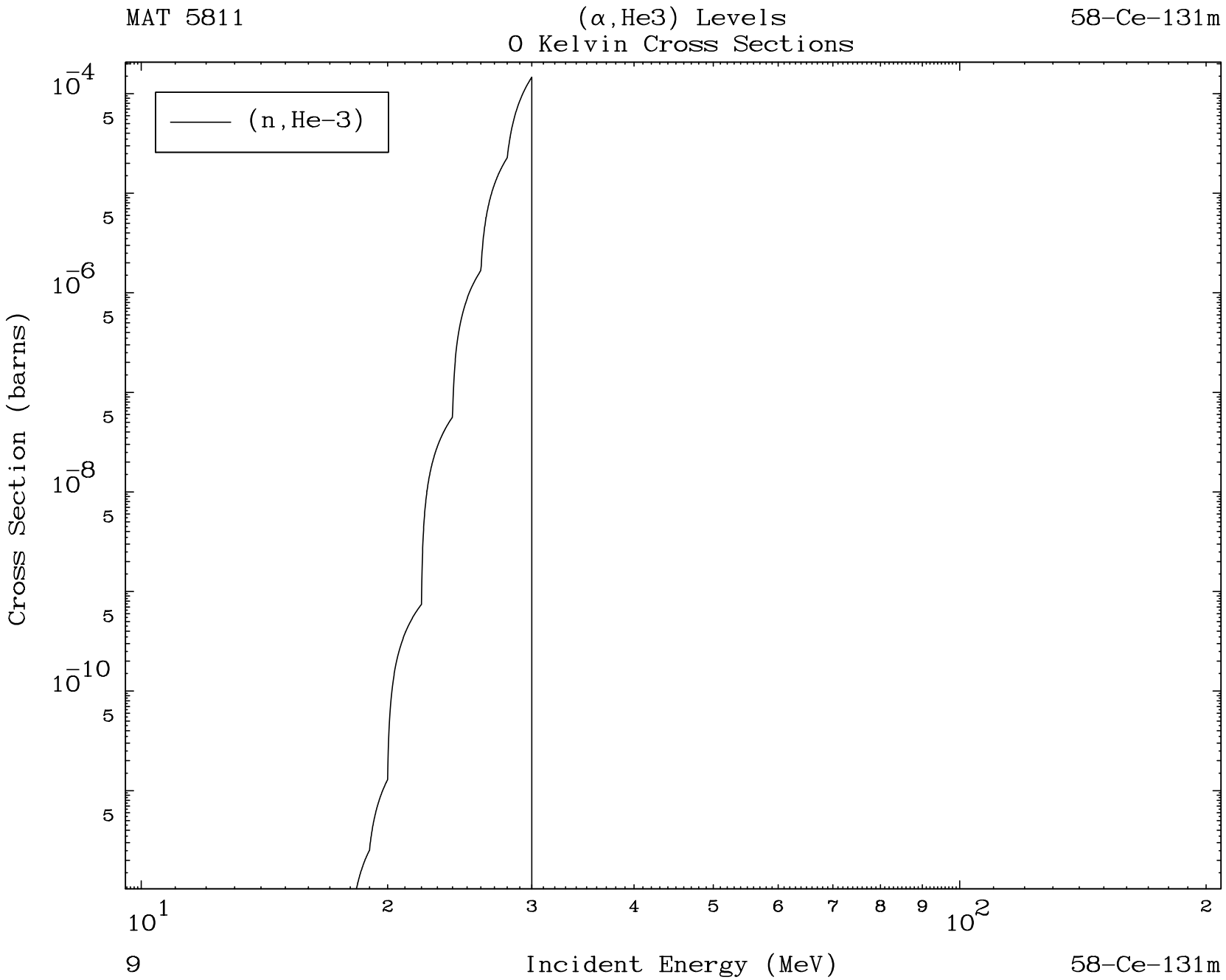

MAT 5811
α Charged Particle
0 Kelvin Cross Sections
58-Ce-131m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,2n) p
(n,p)
(n,d)
(n,t)
4
58-Ce-131m

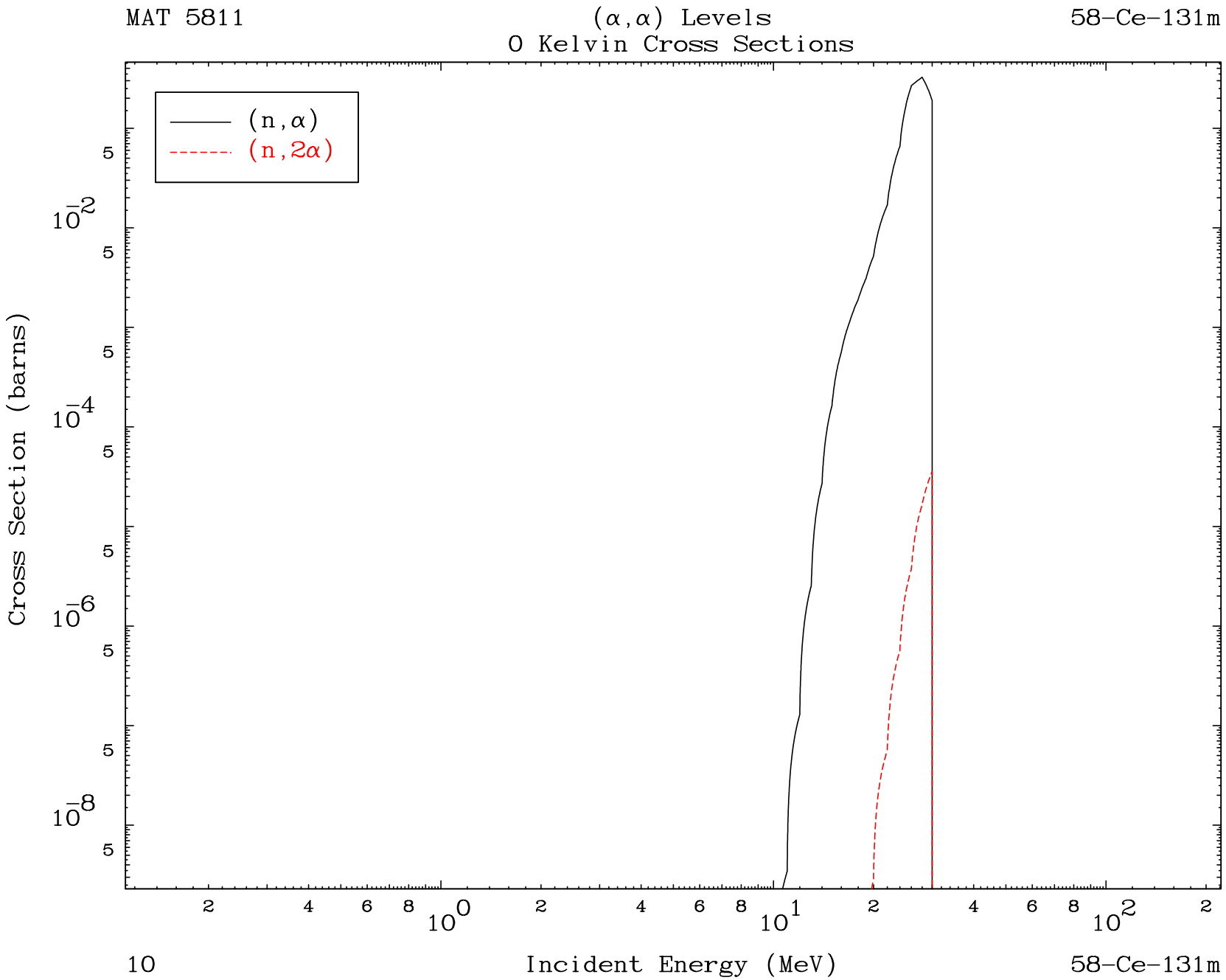

MAT 5811
α Charged Particle
0 Kelvin Cross Sections
58-Ce-131m
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
10-2
10-4
10-6
10-8
10 0
10 1
10 2
Incident Energy (MeV)
58-Ce-131m

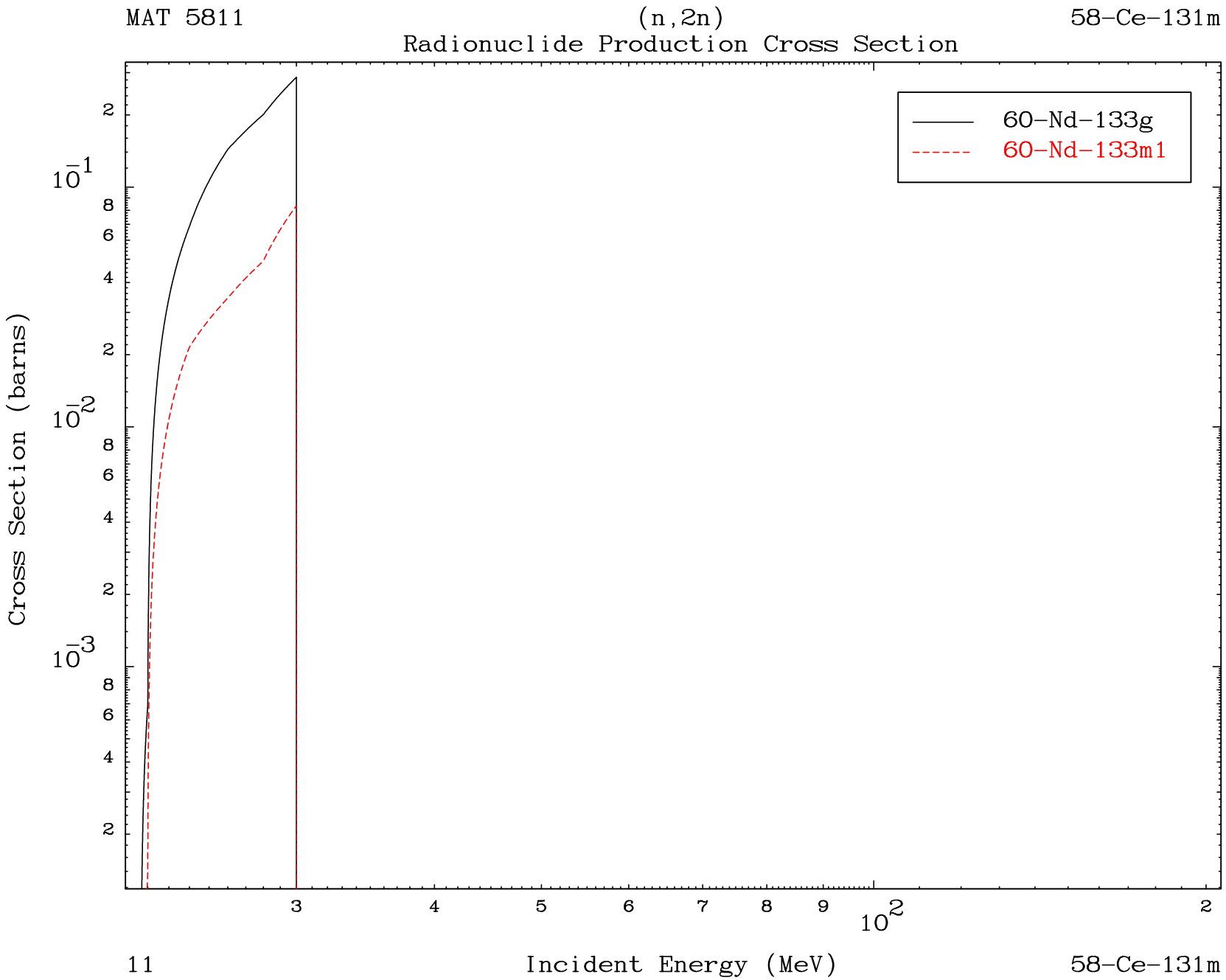

MAT 5811
(α,p) Levels
58-Ce-131m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
58-Ce-131m

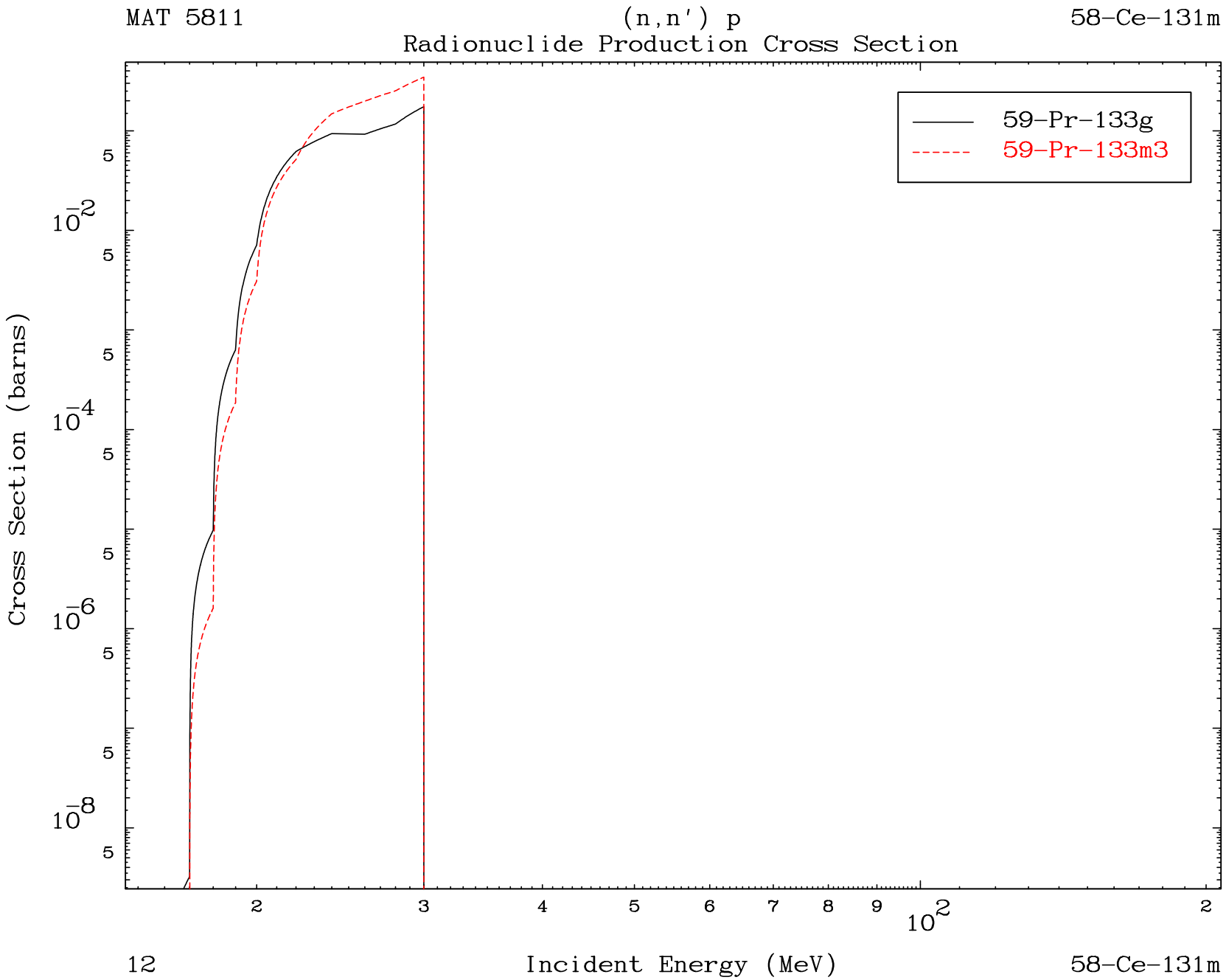

MAT 5811
(α,d) Levels
58-Ce-131m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
7
58-Ce-131m

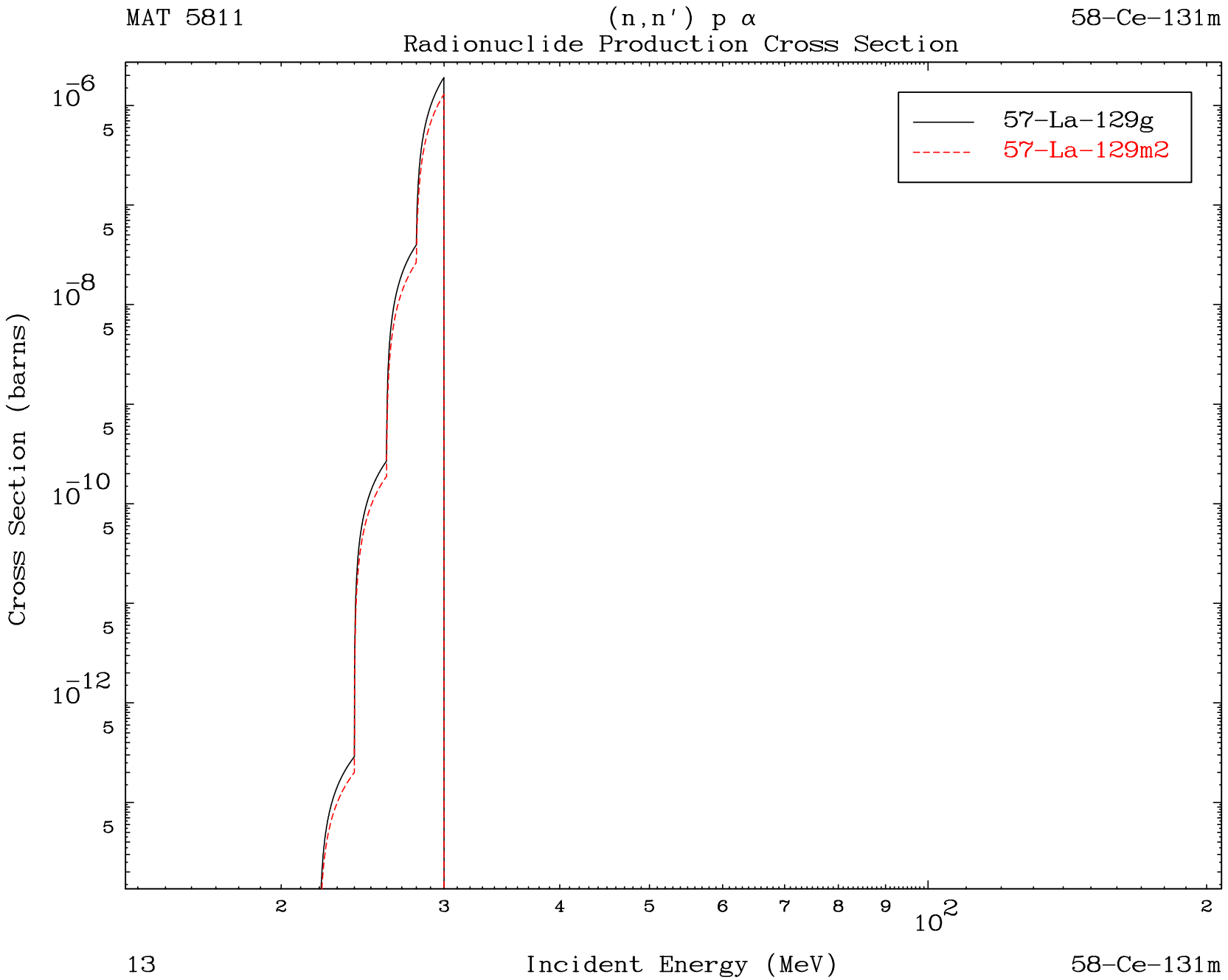

MAT 5811
(α,t) Levels
58-Ce-131m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10^2
8
58-Ce-131m

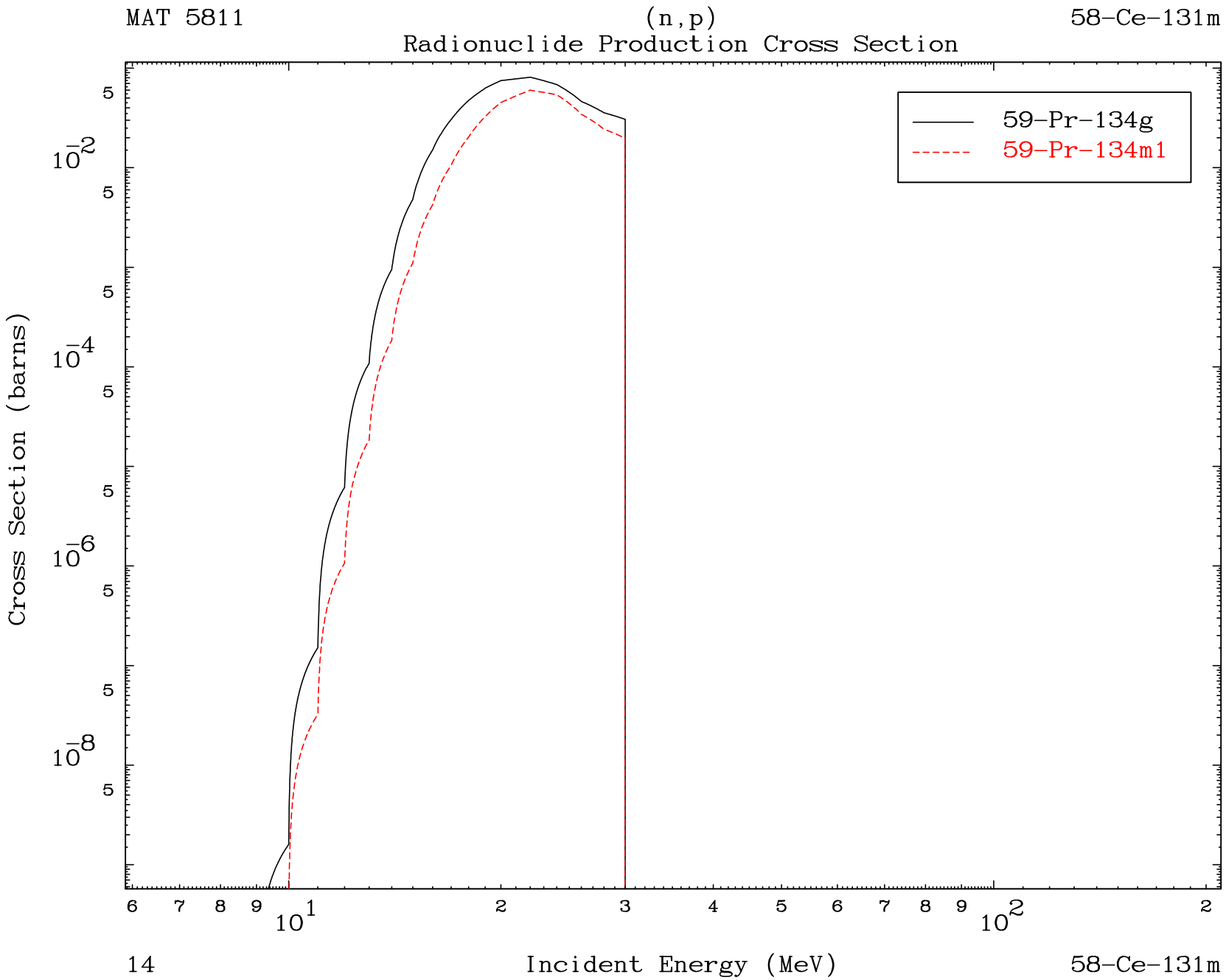

MAT 5811
(α,He3) Levels
58-Ce-131m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
58-Ce-131m

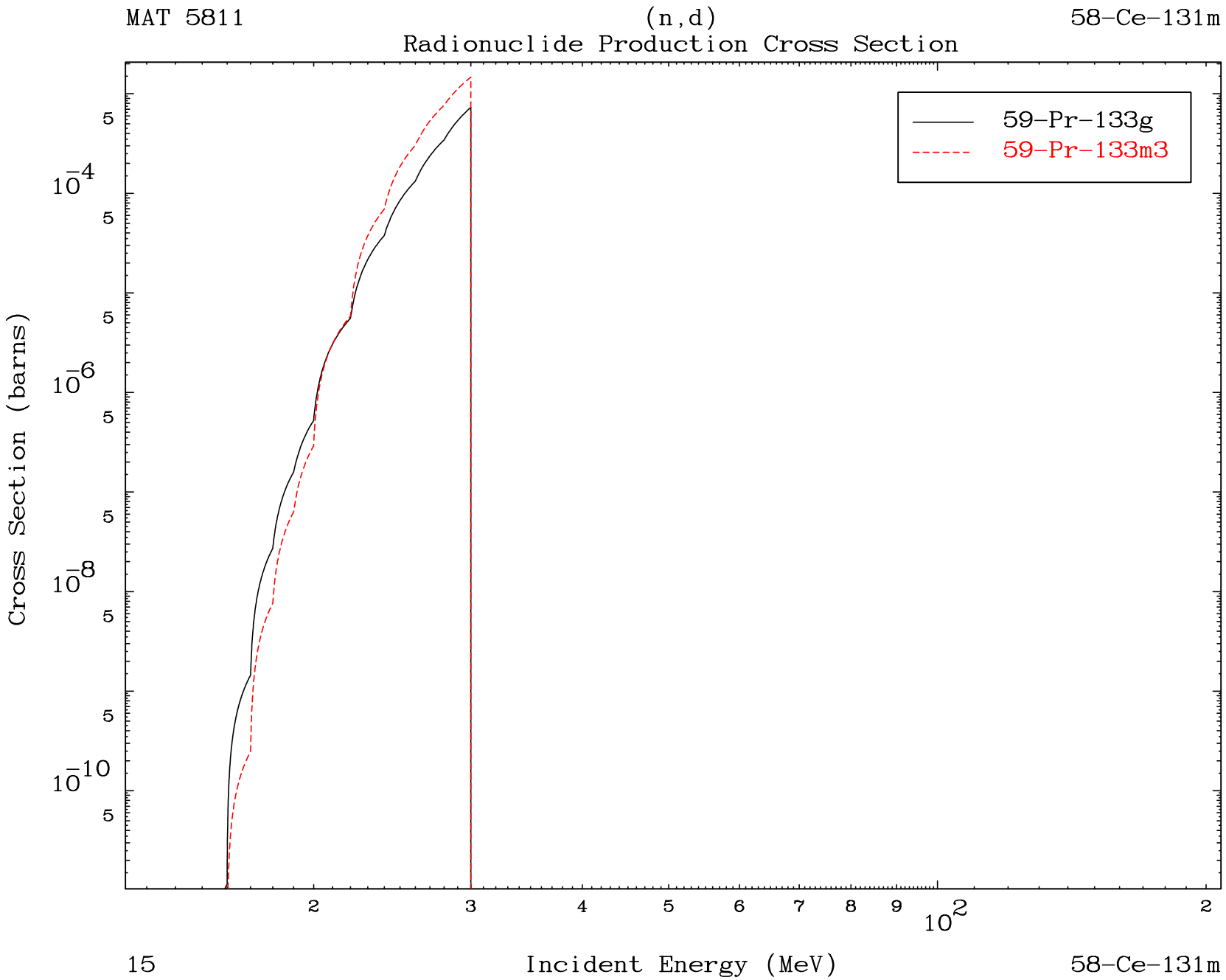

MAT 5811
(α,α) Levels
58-Ce-131m
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10
Incident Energy (MeV)
58-Ce-131m

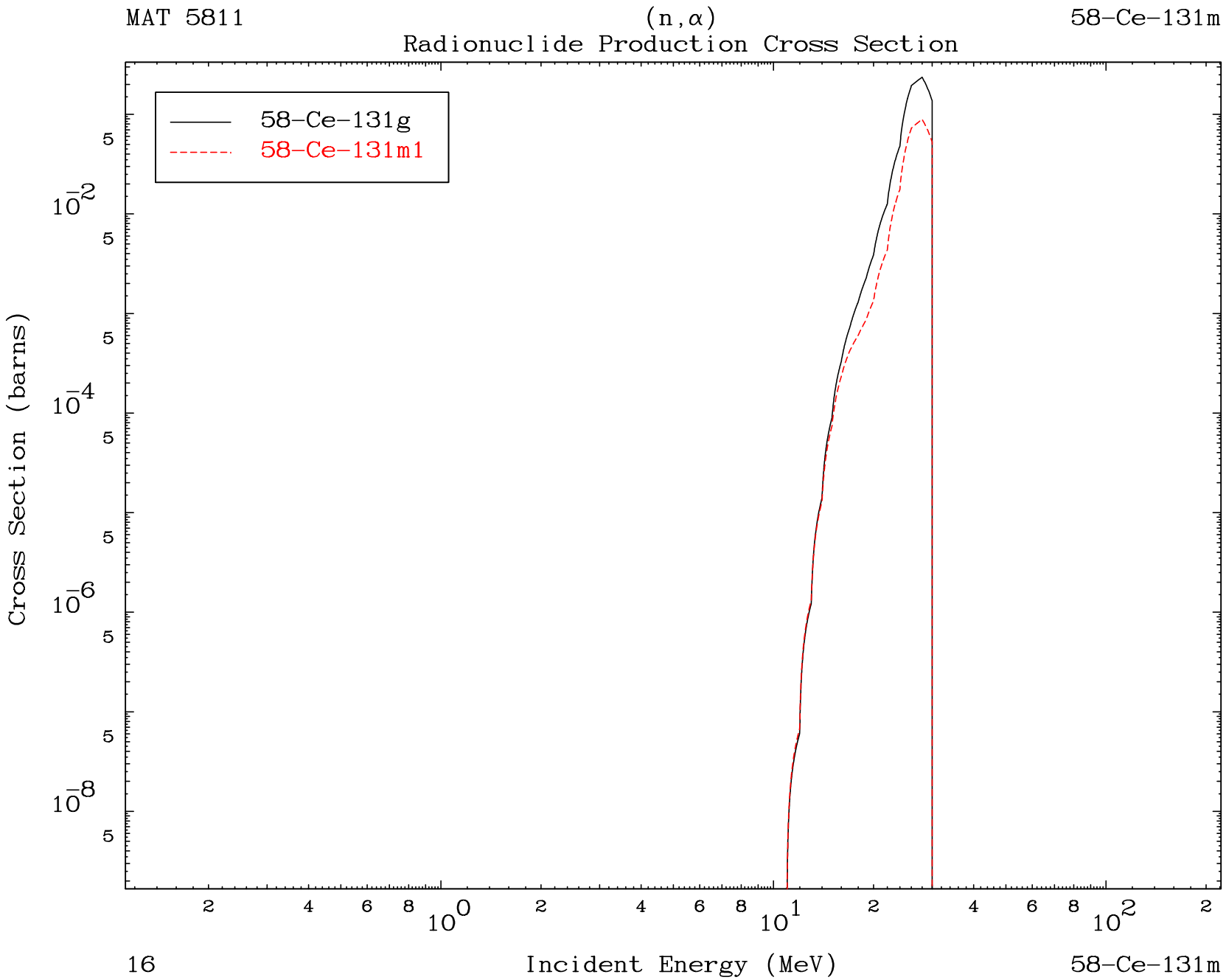

MAT 5811
(n,2n)
58-Ce-131m
Radionuclide Production Cross Section
60-Nd-133g
60-Nd-133m1
Cross Section (barns)
Incident Energy (MeV)
11
58-Ce-131m

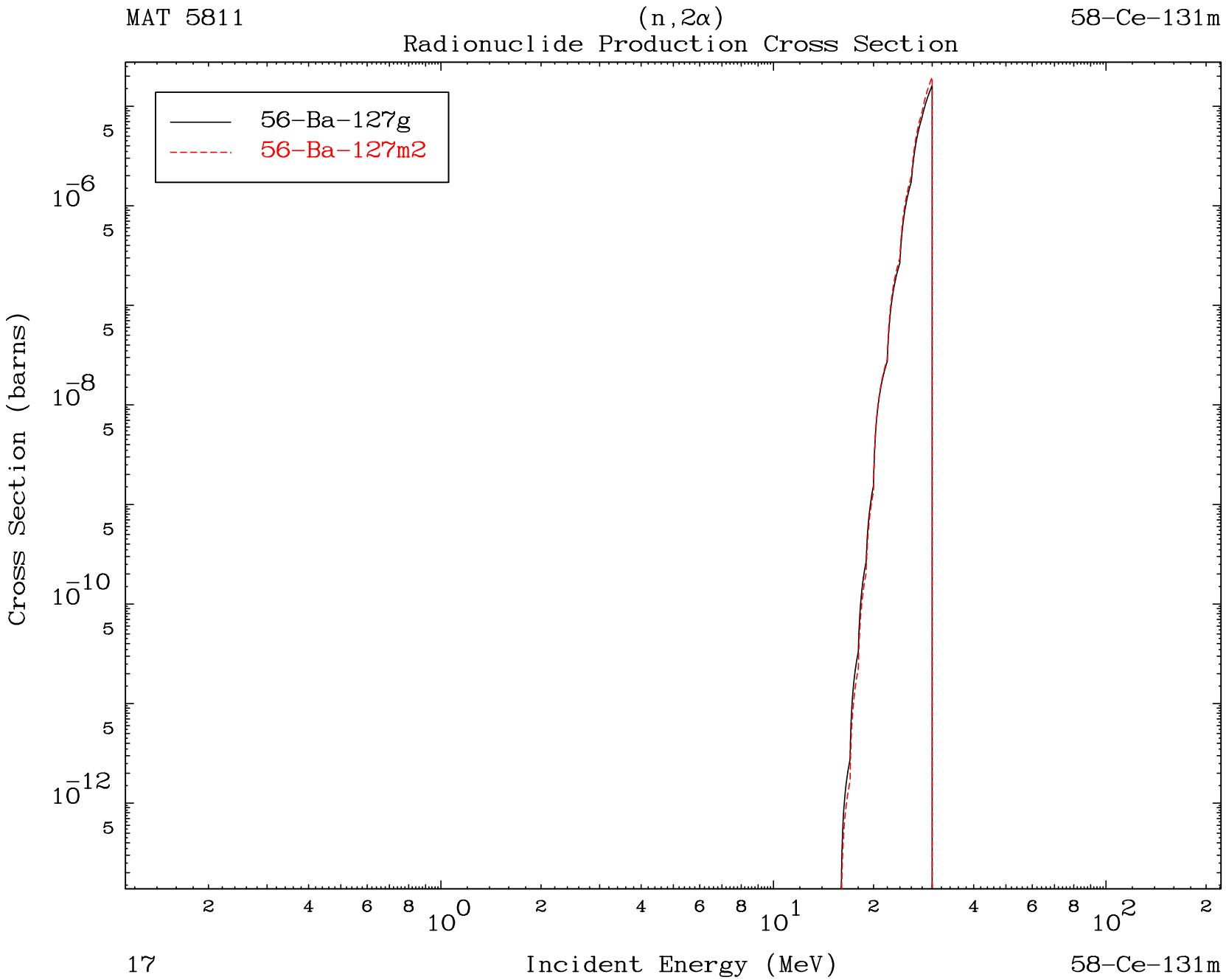

MAT 5811
(n,n') p
58-Ce-131m
Radionuclide Production Cross Section
59-Pr-133g
59-Pr-133m3
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
58-Ce-131m

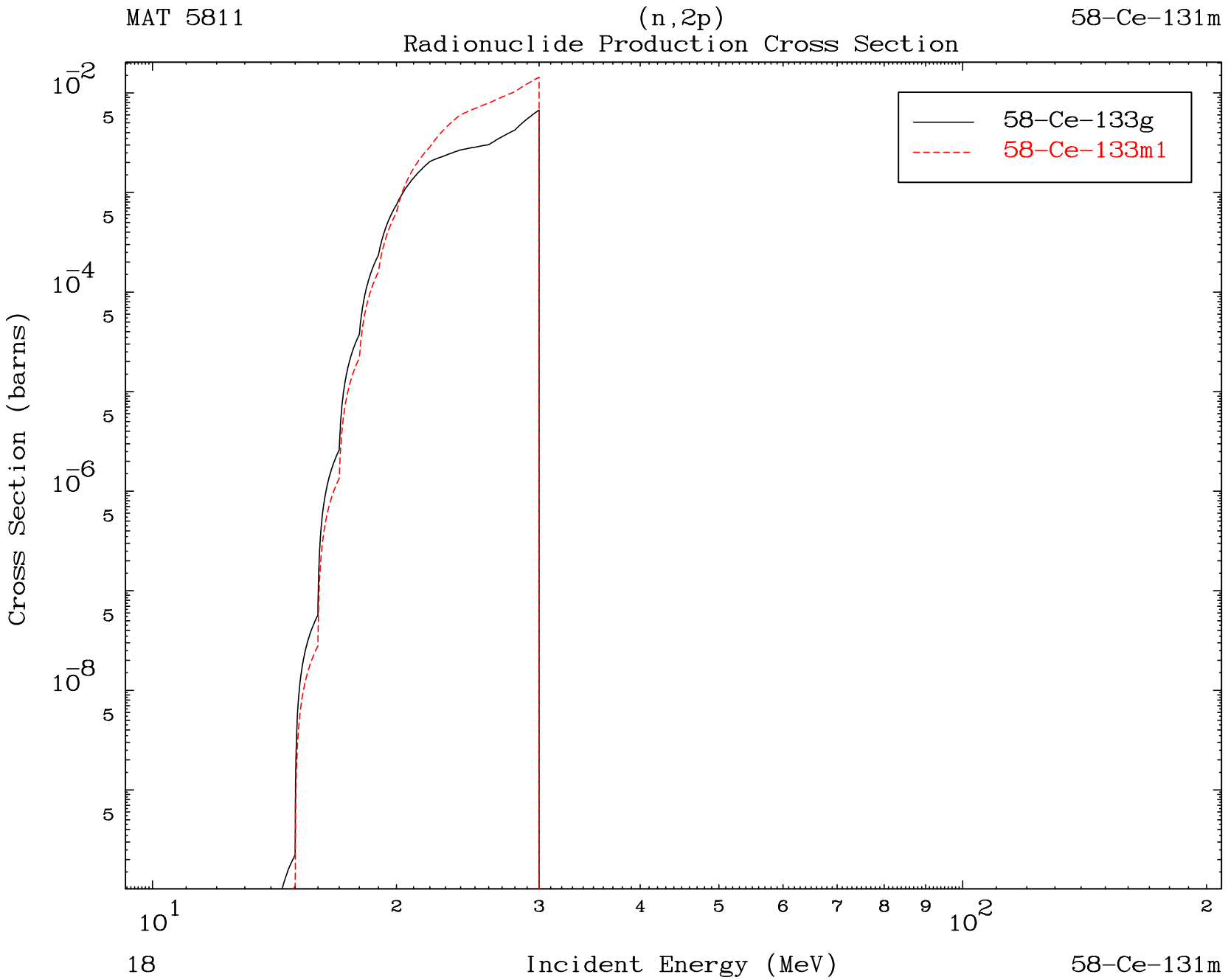

MAT 5811
(n,n') p α
58-Ce-131m
Radionuclide Production Cross Section
57-La-129g
57-La-129m2
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
58-Ce-131m

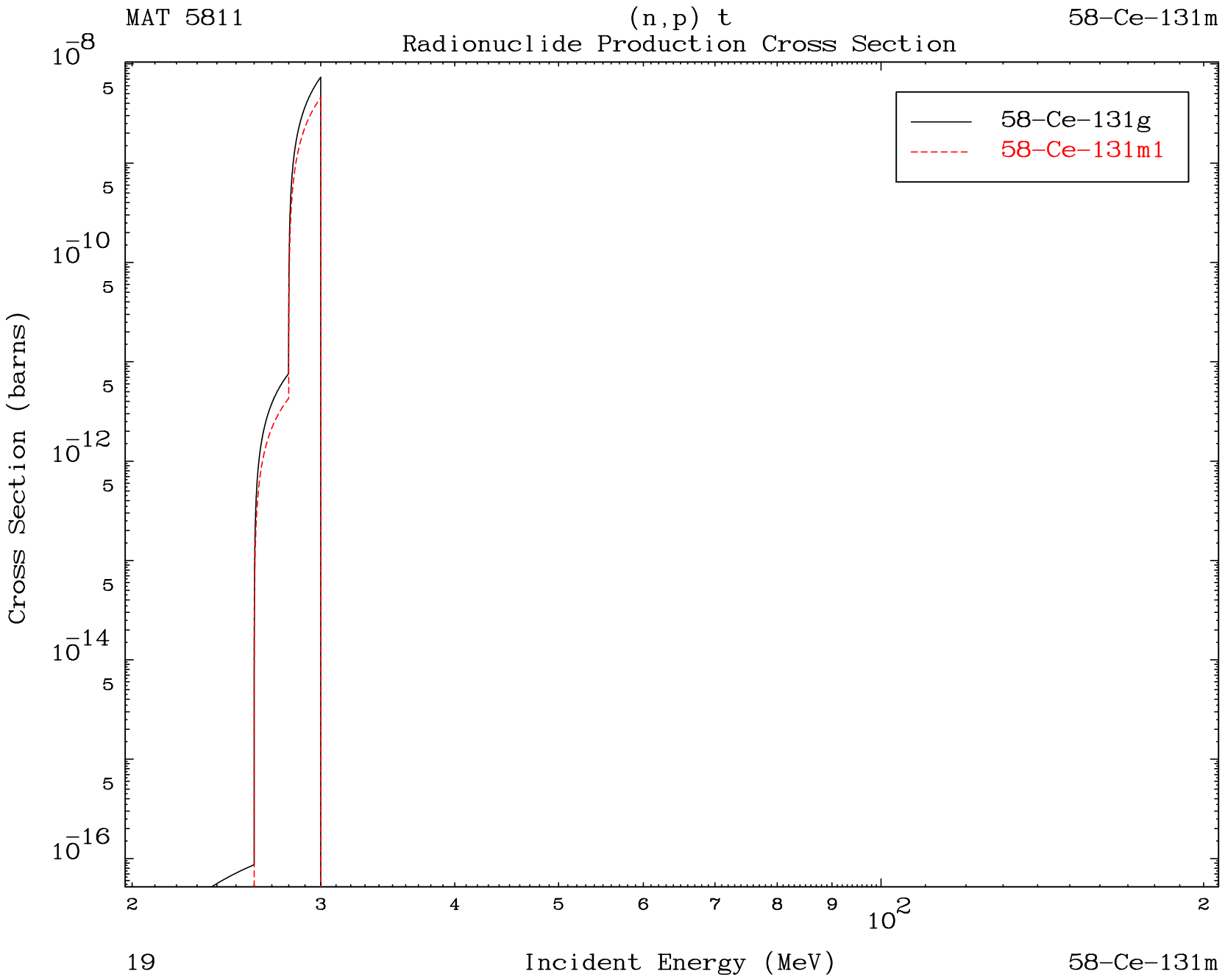

MAT 5811
(n,p)
58-Ce-131m
Radionuclide Production Cross Section
59-Pr-134g
59-Pr-134m1
Cross Section (barns)
Incident Energy (MeV)
14
58-Ce-131m

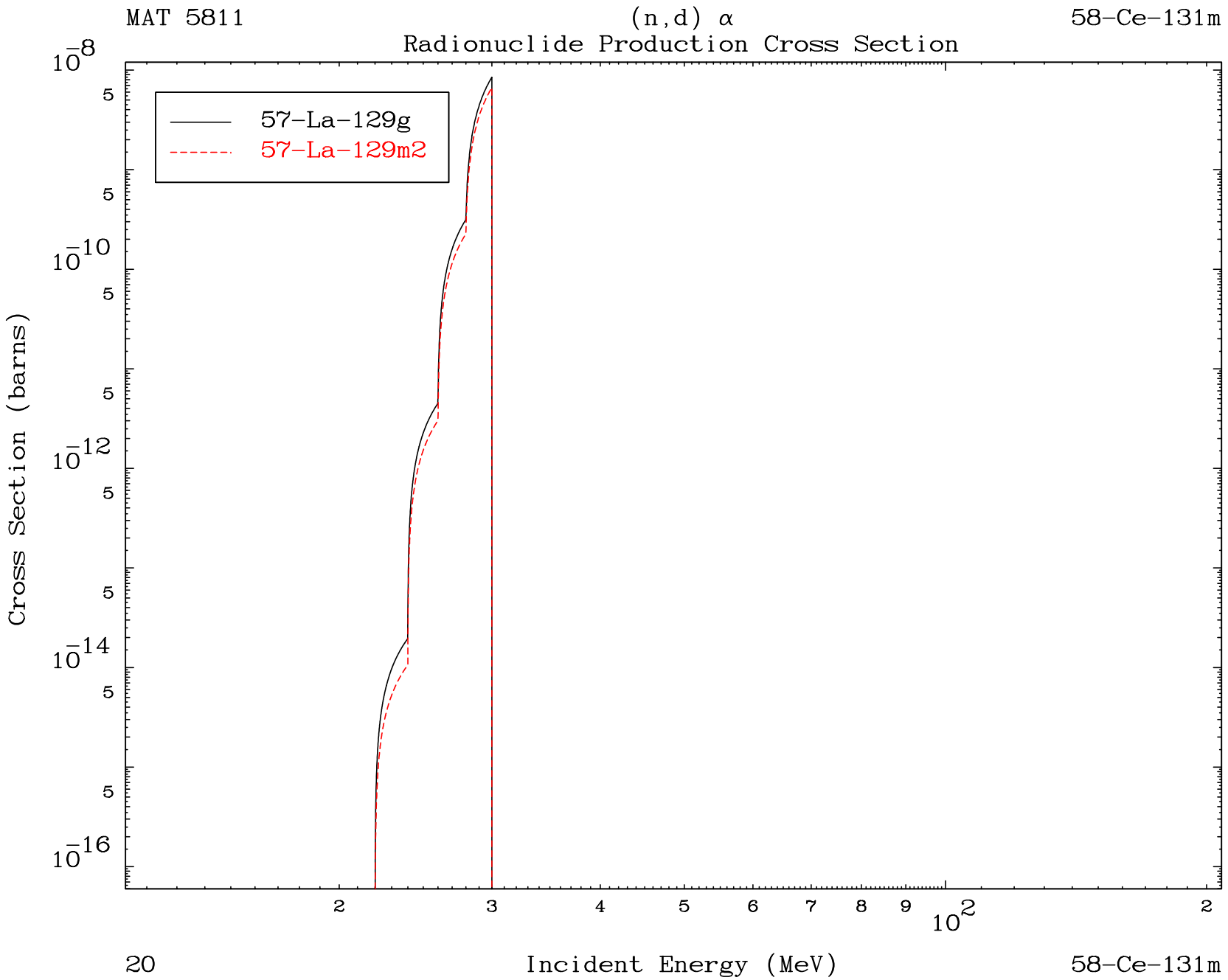

MAT 5811
(n,d)
58-Ce-131m
Radionuclide Production Cross Section
59-Pr-133g
59-Pr-133m3
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
15
58-Ce-131m


MAT 5811
(n,α)
58-Ce-131m
Radionuclide Production Cross Section
58-Ce-131g
58-Ce-131m1
Cross Section (barns)
Incident Energy (MeV)
16
58-Ce-131m


MAT 5811
(n,2α)
58-Ce-131m
Radionuclide Production Cross Section
56-Ba-127g
56-Ba-127m2
Cross Section (barns)
10-6
10-8
10-10
10-12
100
101
102
Incident Energy (MeV)
17
58-Ce-131m


MAT 5811
(n,2p)
58-Ce-131m
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
58-Ce-133g
58-Ce-133m1
10 1
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
58-Ce-131m


MAT 5811
(n,p) t
58-Ce-131m
Radionuclide Production Cross Section
58-Ce-131g
58-Ce-131m1
Cross Section (barns)
Incident Energy (MeV)
19
58-Ce-131m


MAT 5811
(n,d) α
58-Ce-131m
Radionuclide Production Cross Section
57-La-129g
57-La-129m2
Cross Section (barns)
Incident Energy (MeV)
20
58-Ce-131m