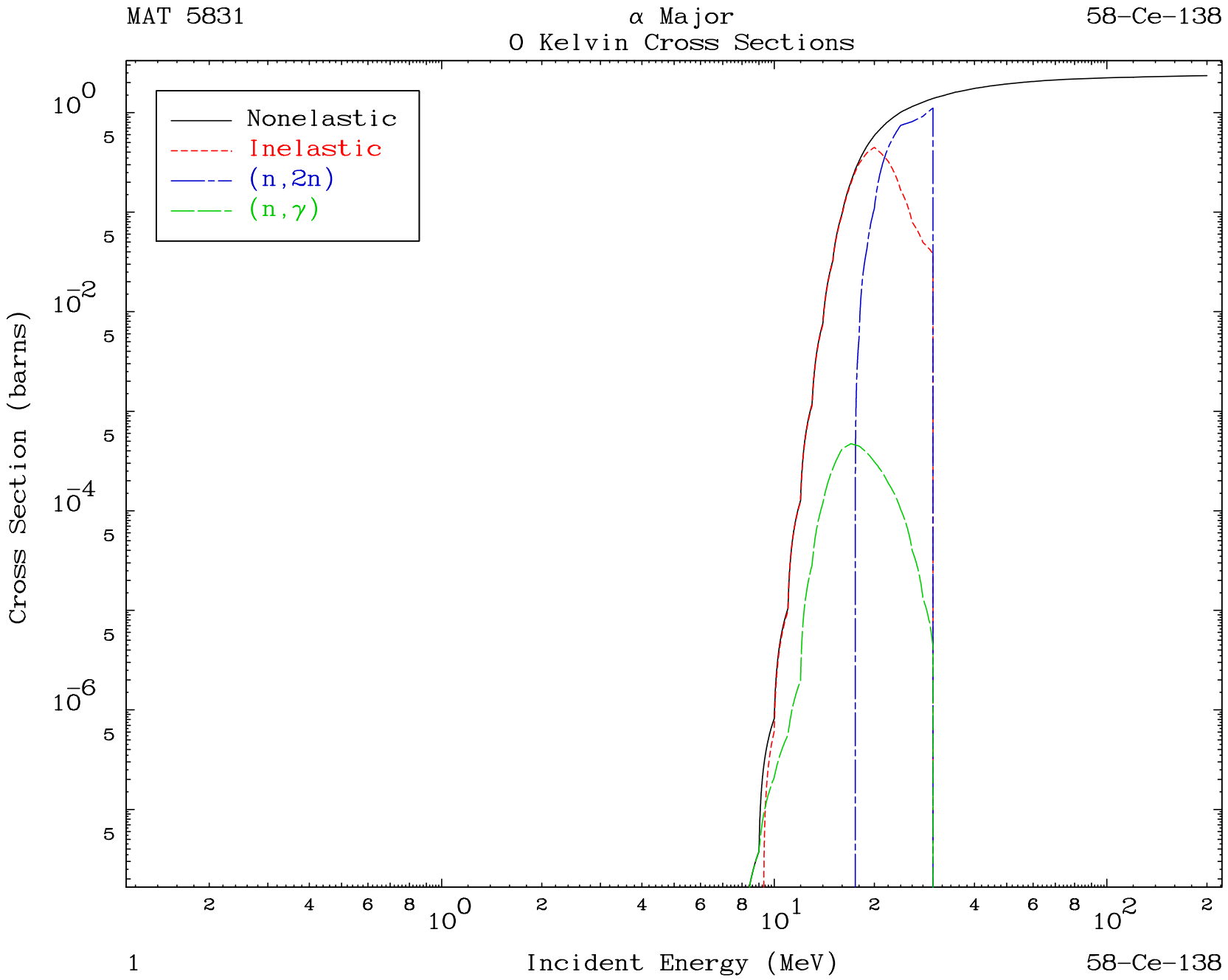
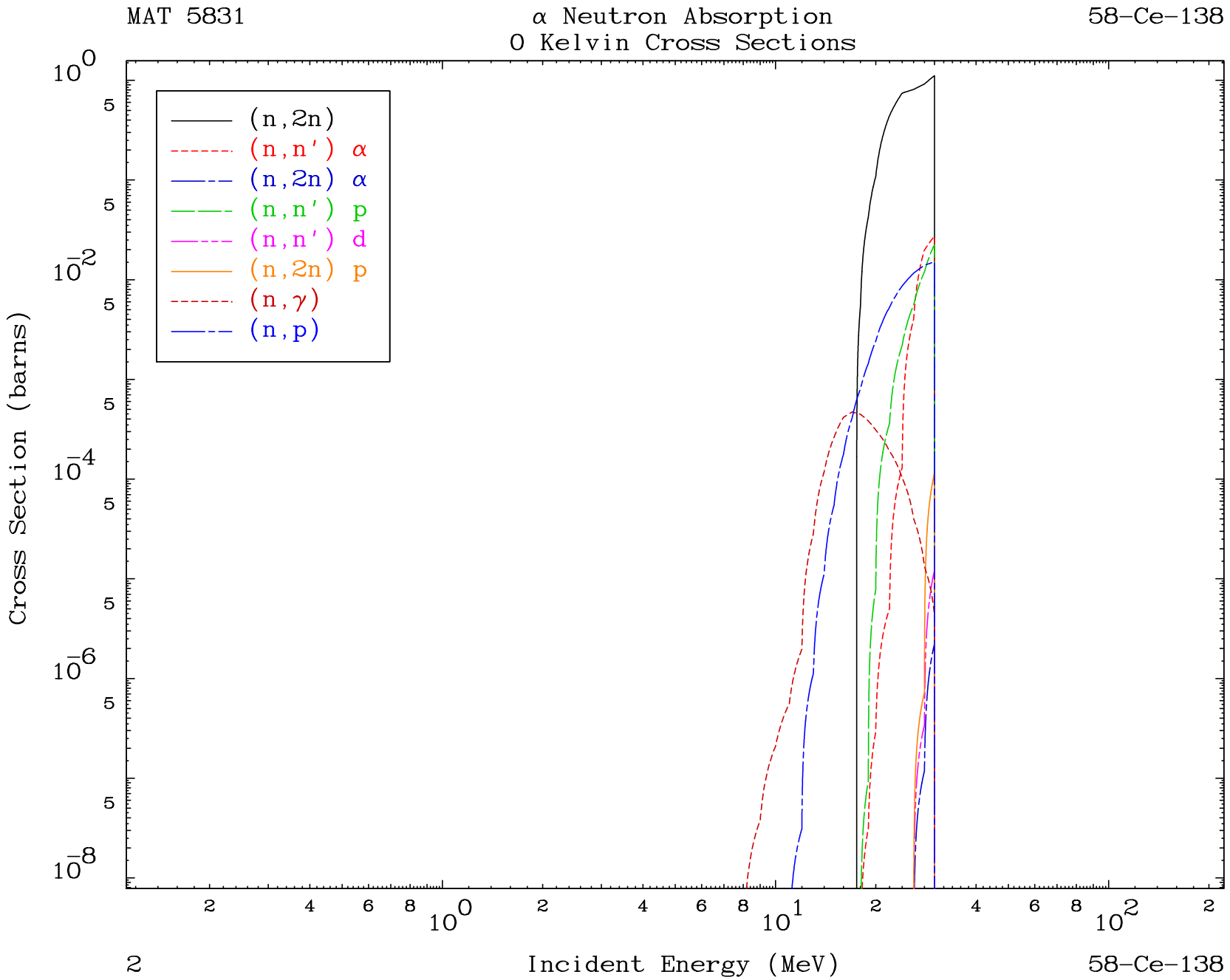
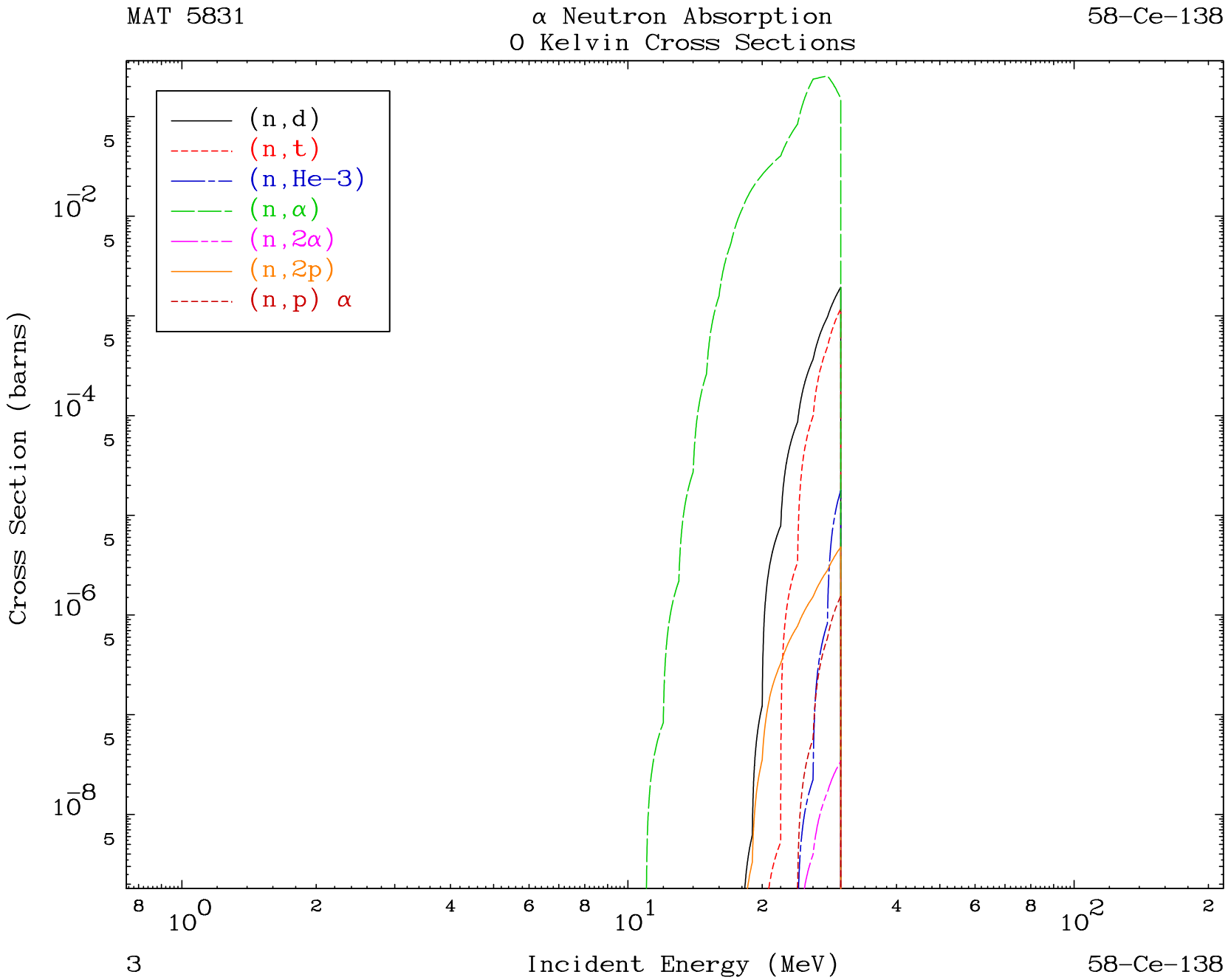
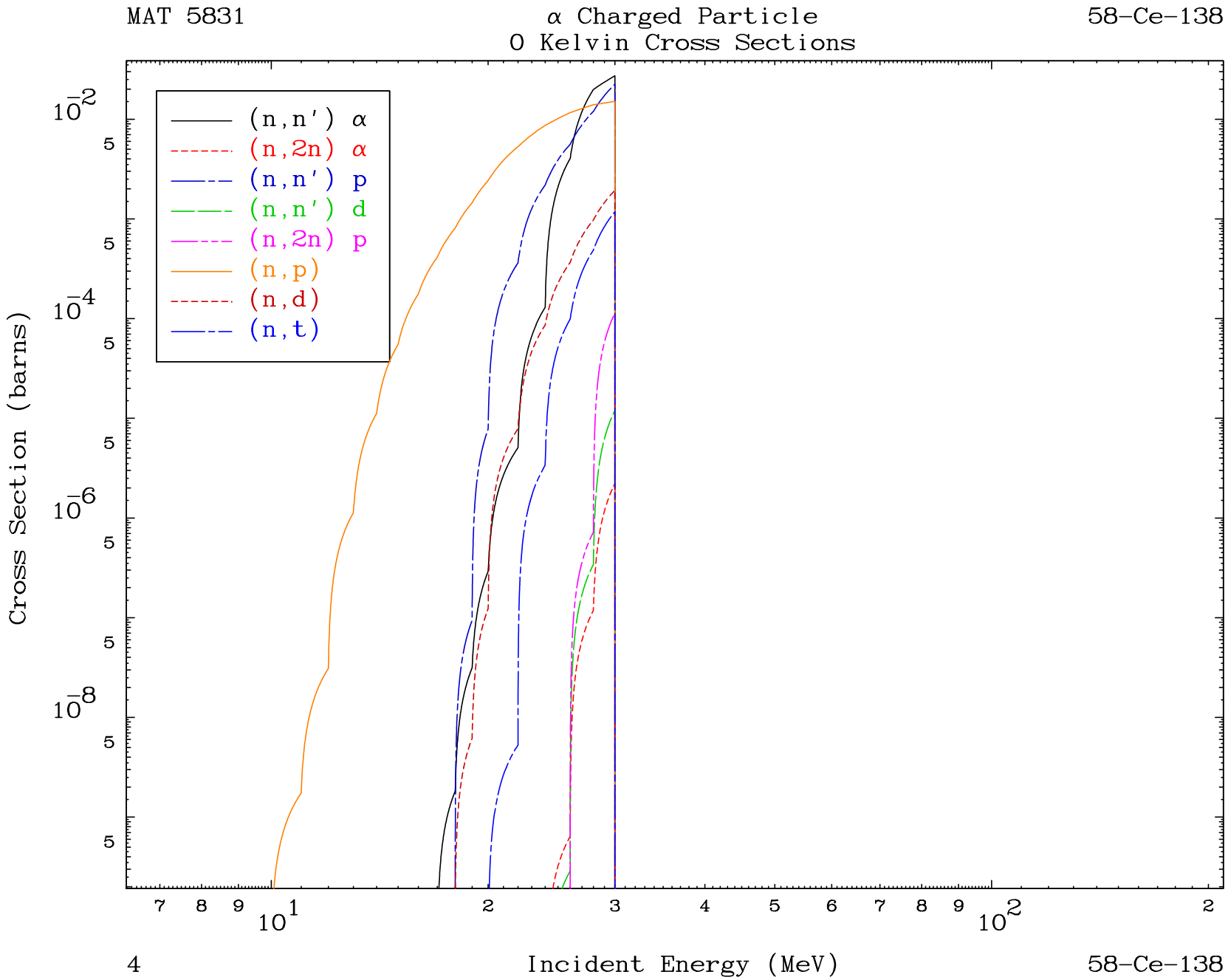
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

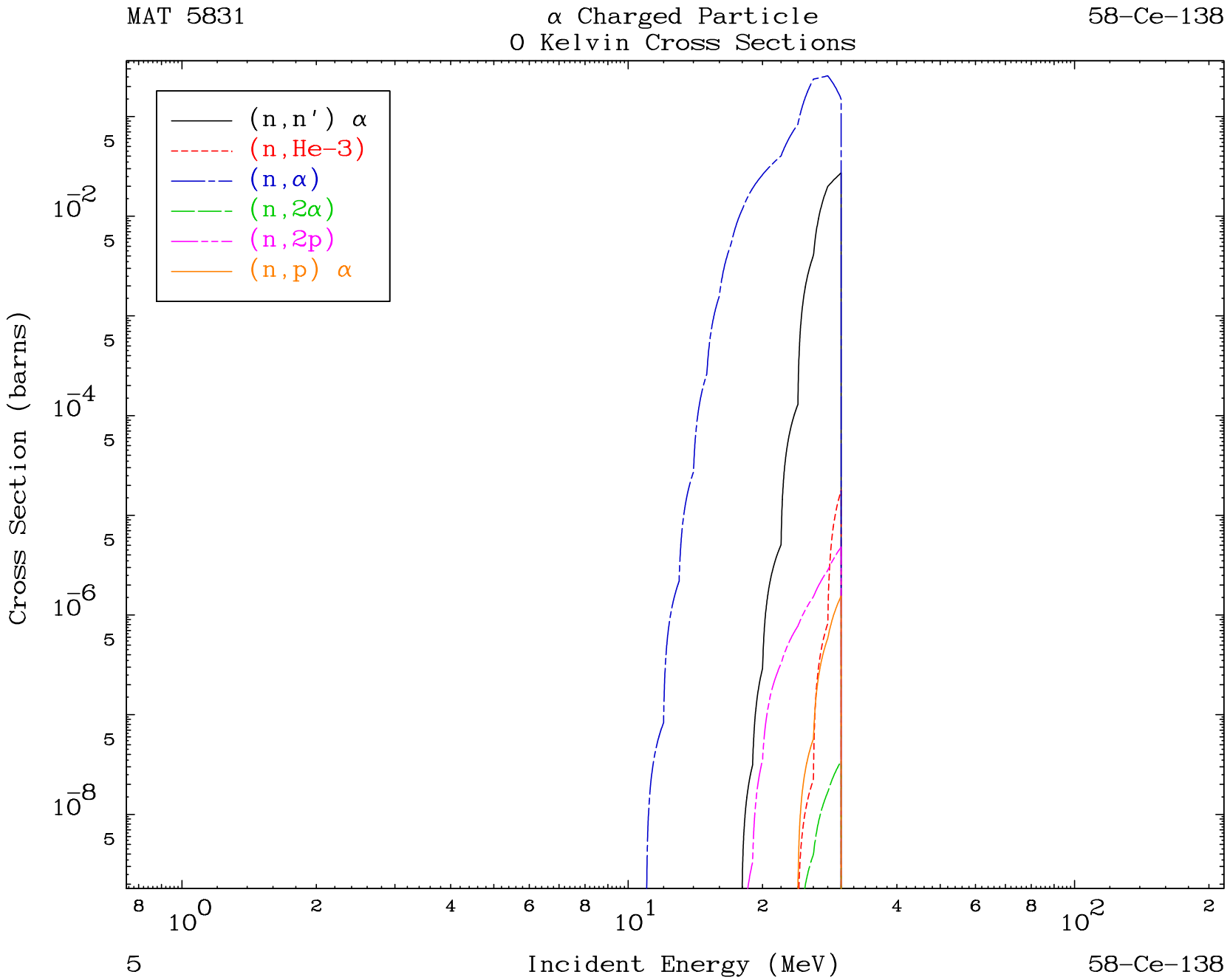
Press Mouse Button to Start

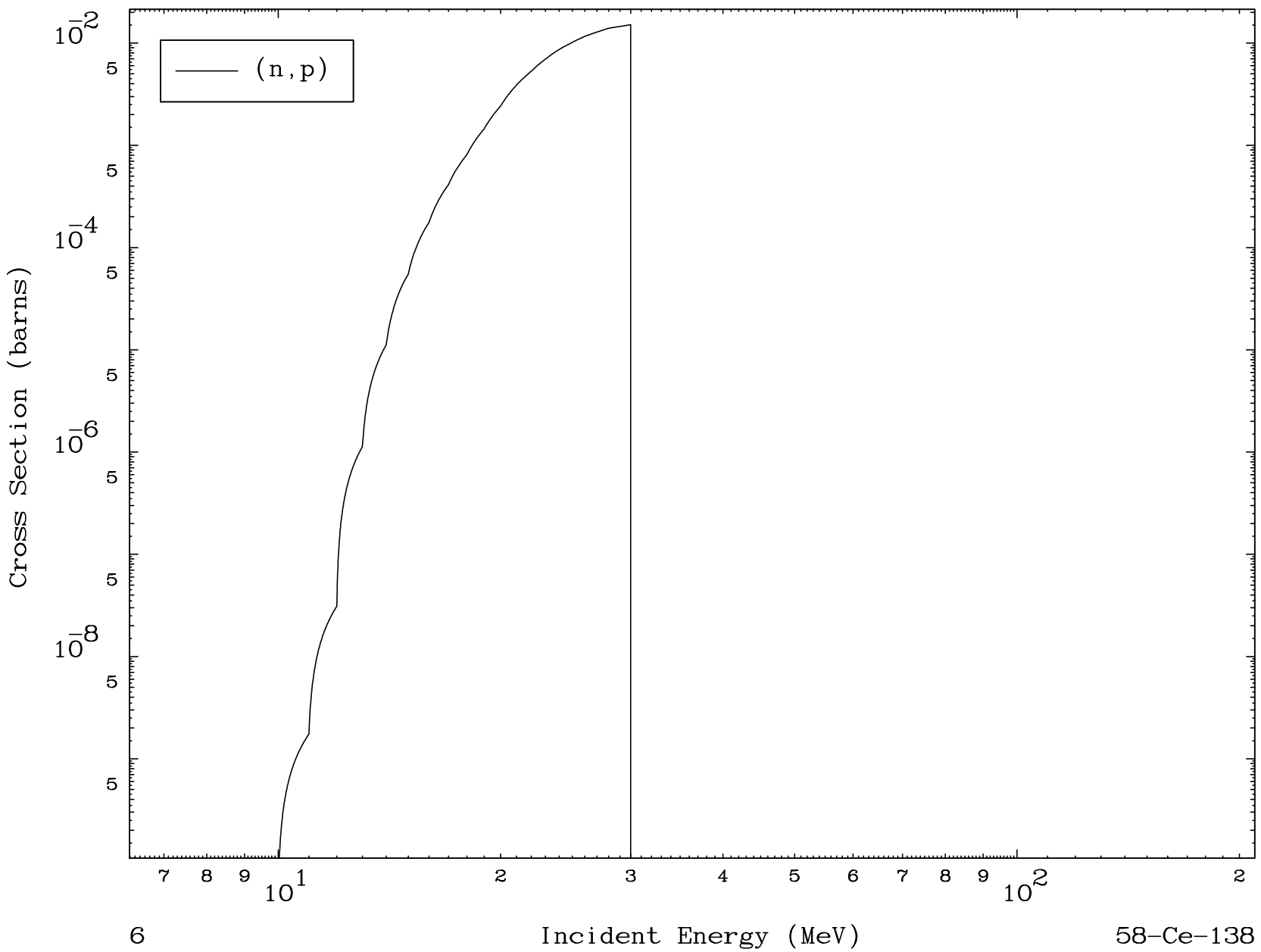

MAT 5831
α Major
58-Ce-138
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-138

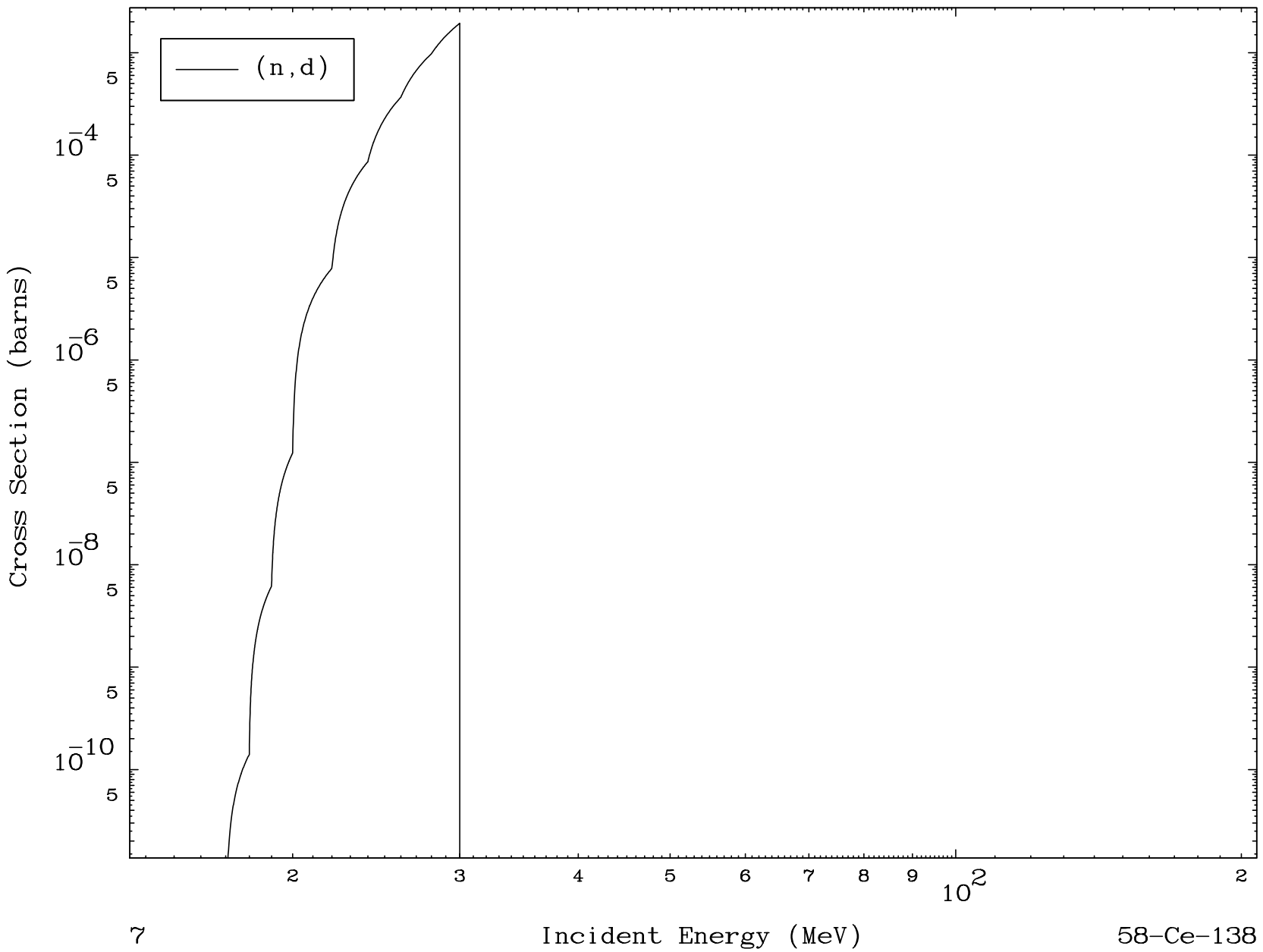

MAT 5831
α Neutron Absorption
0 Kelvin Cross Sections
58-Ce-138
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-138
2


MAT 5831
α Neutron Absorption
0 Kelvin Cross Sections
58-Ce-138
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
3
58-Ce-138

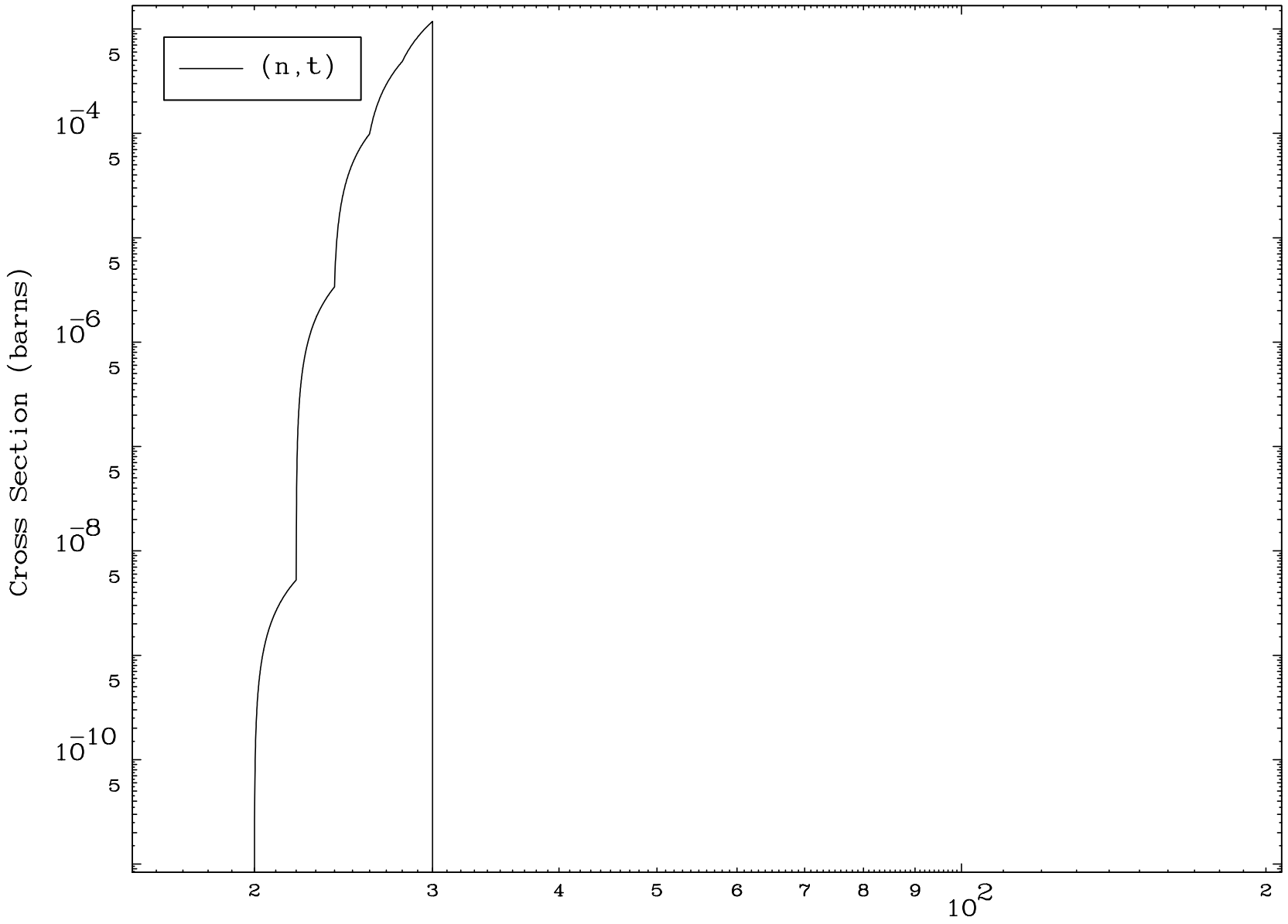

MAT 5831
α Charged Particle
0 Kelvin Cross Sections
58-Ce-138
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
4
58-Ce-138

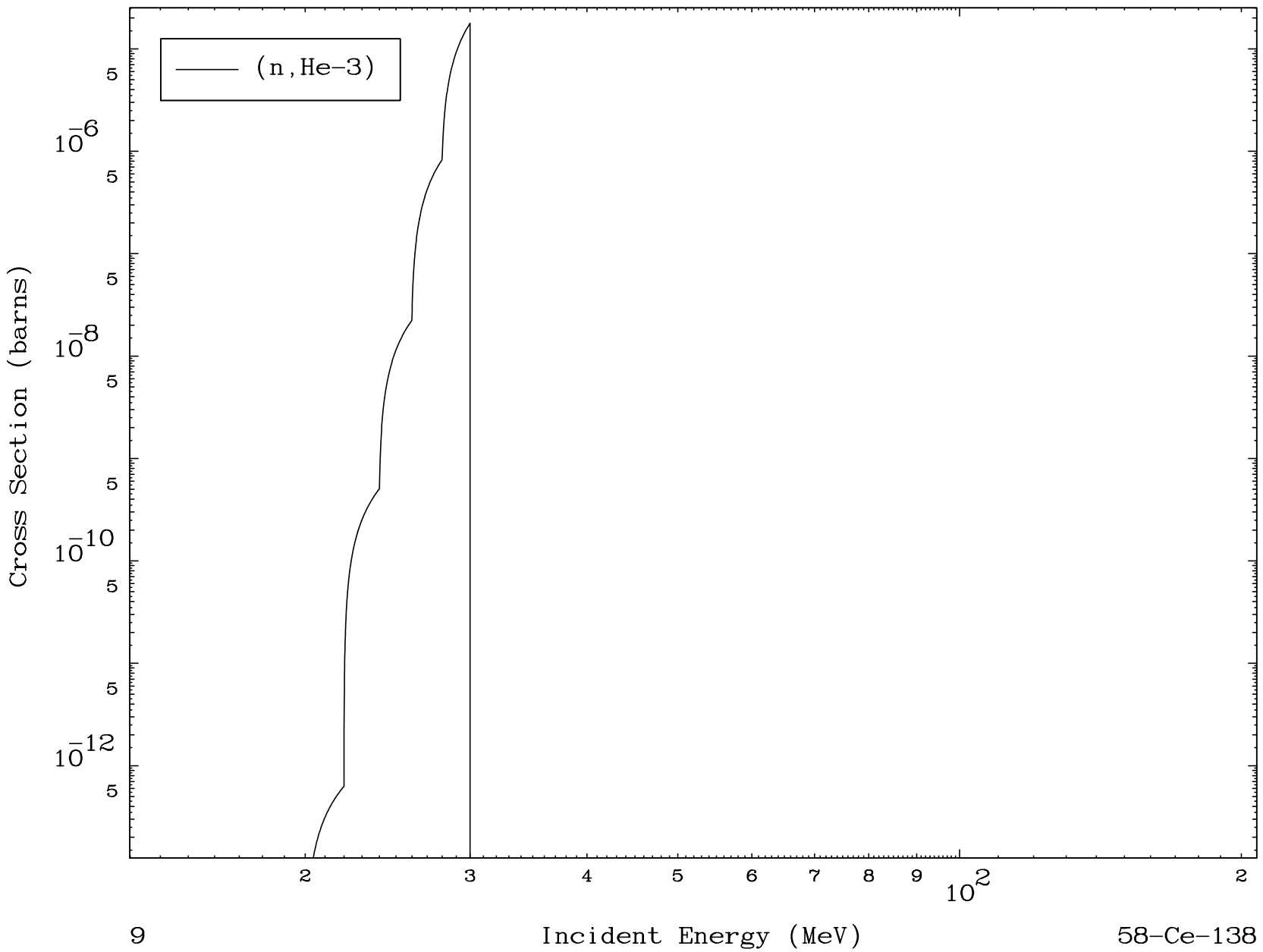

MAT 5831
α Charged Particle
0 Kelvin Cross Sections
58-Ce-138
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
58-Ce-138

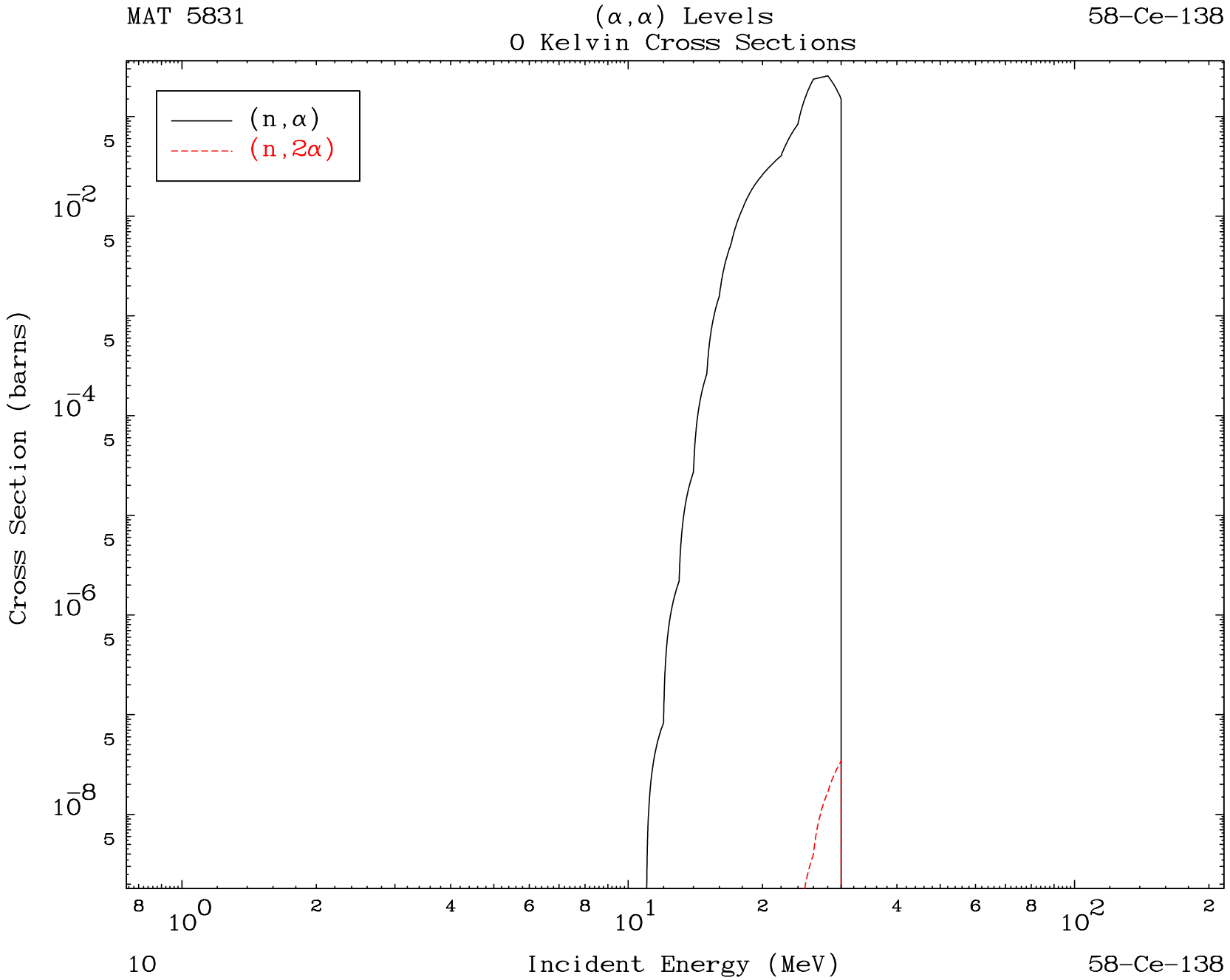

0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
5
7 8 9 101 2 3 4 5 6 7 8 9 102 2
Incident Energy (MeV)

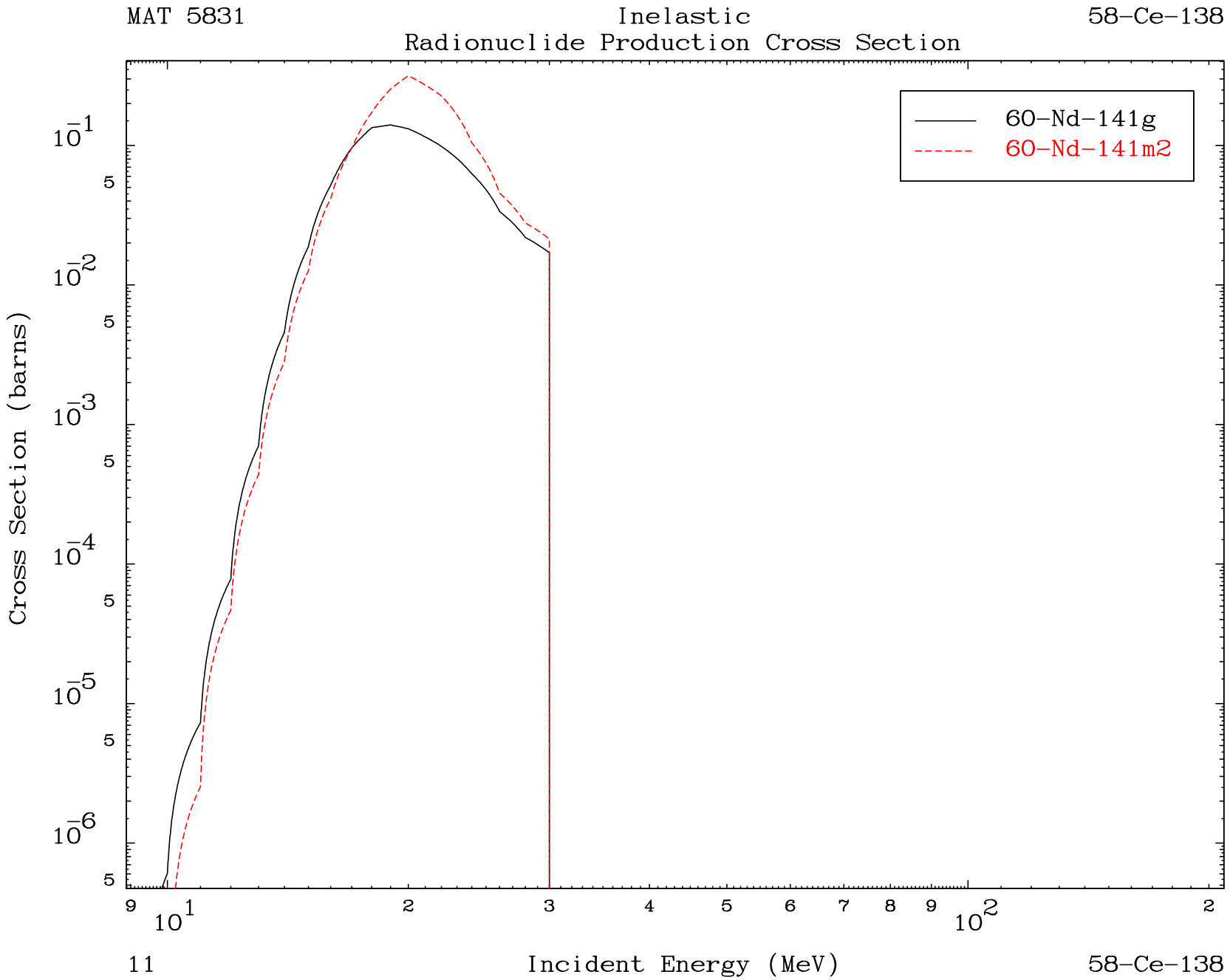

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

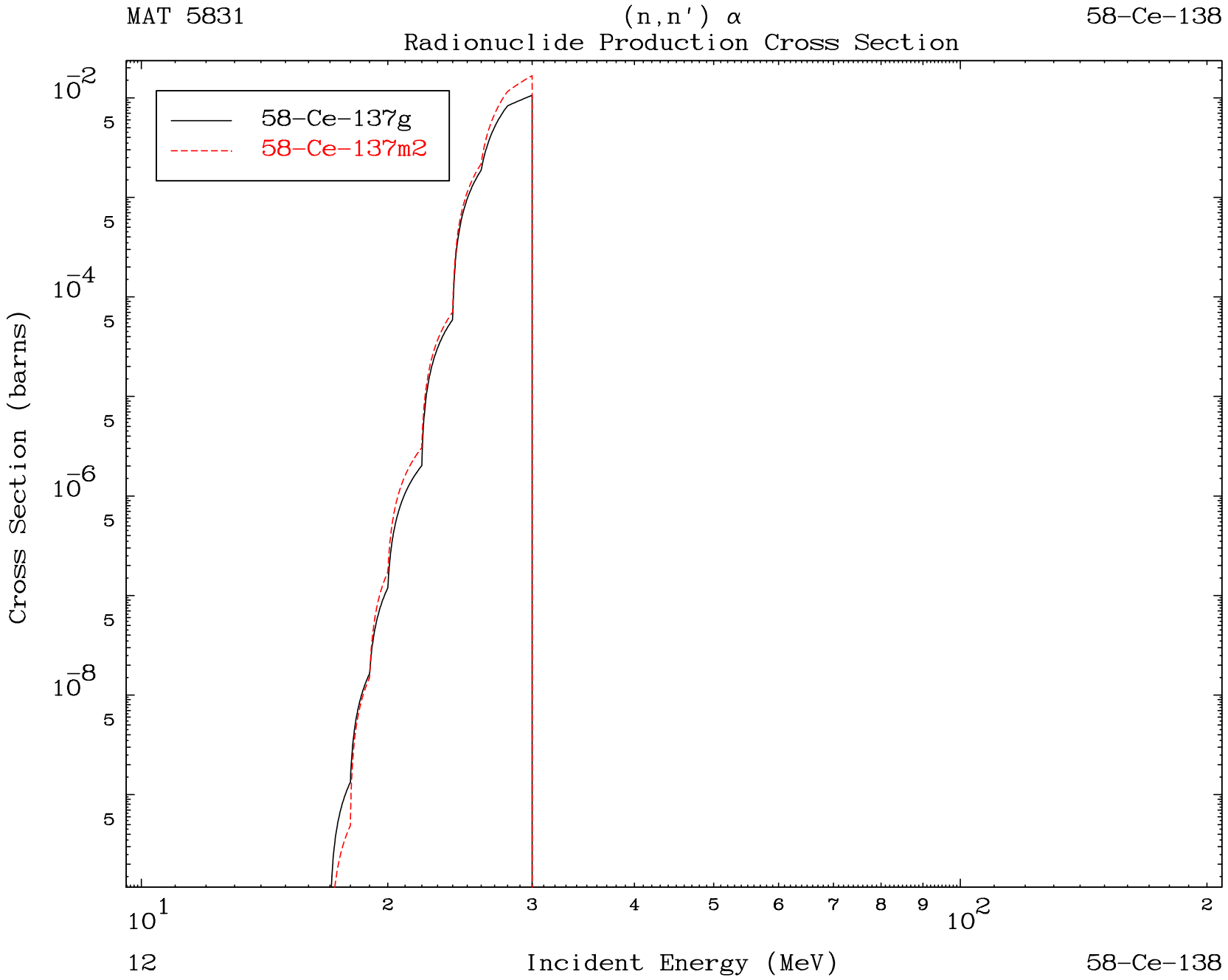
0 Kelvin Cross Sections

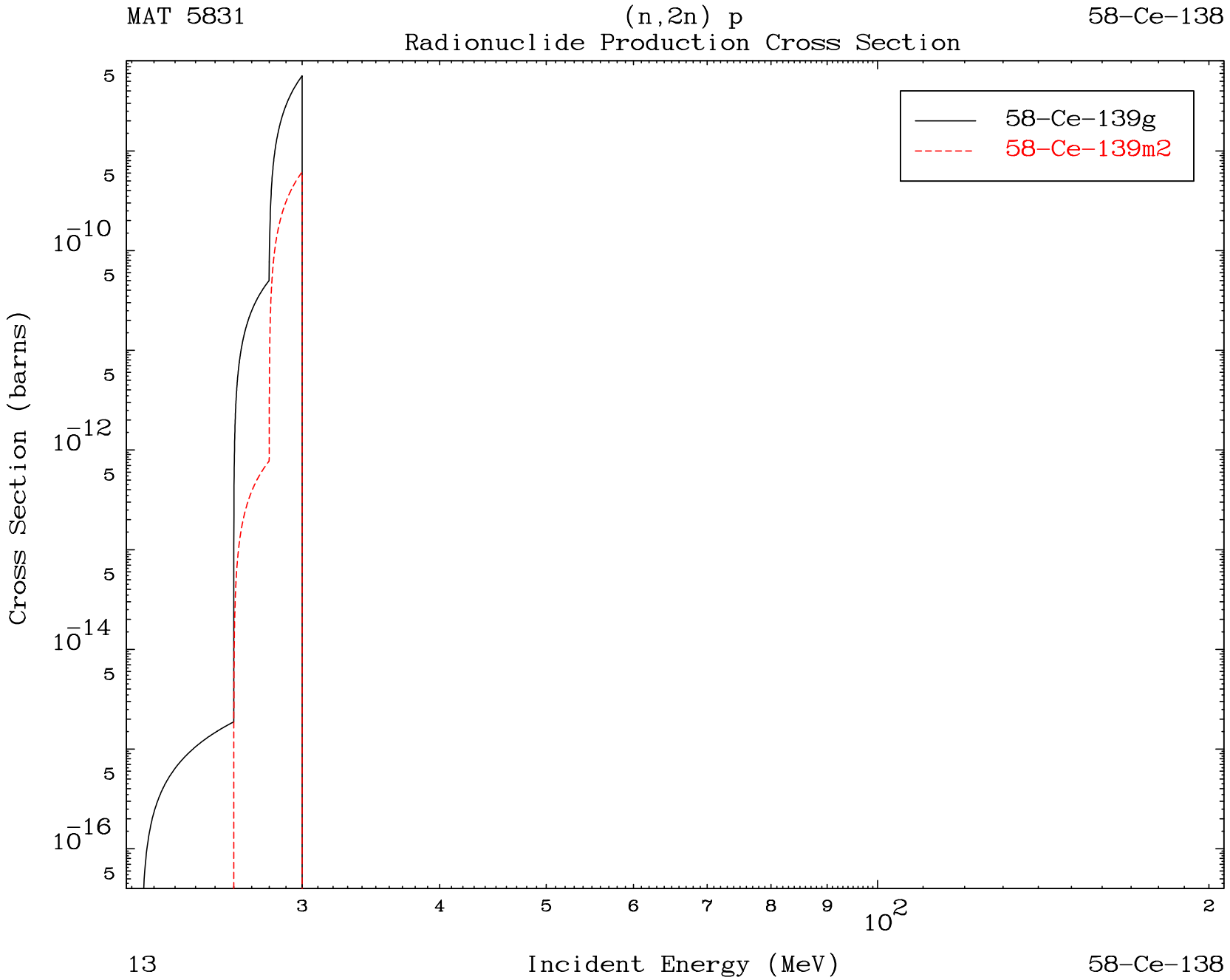


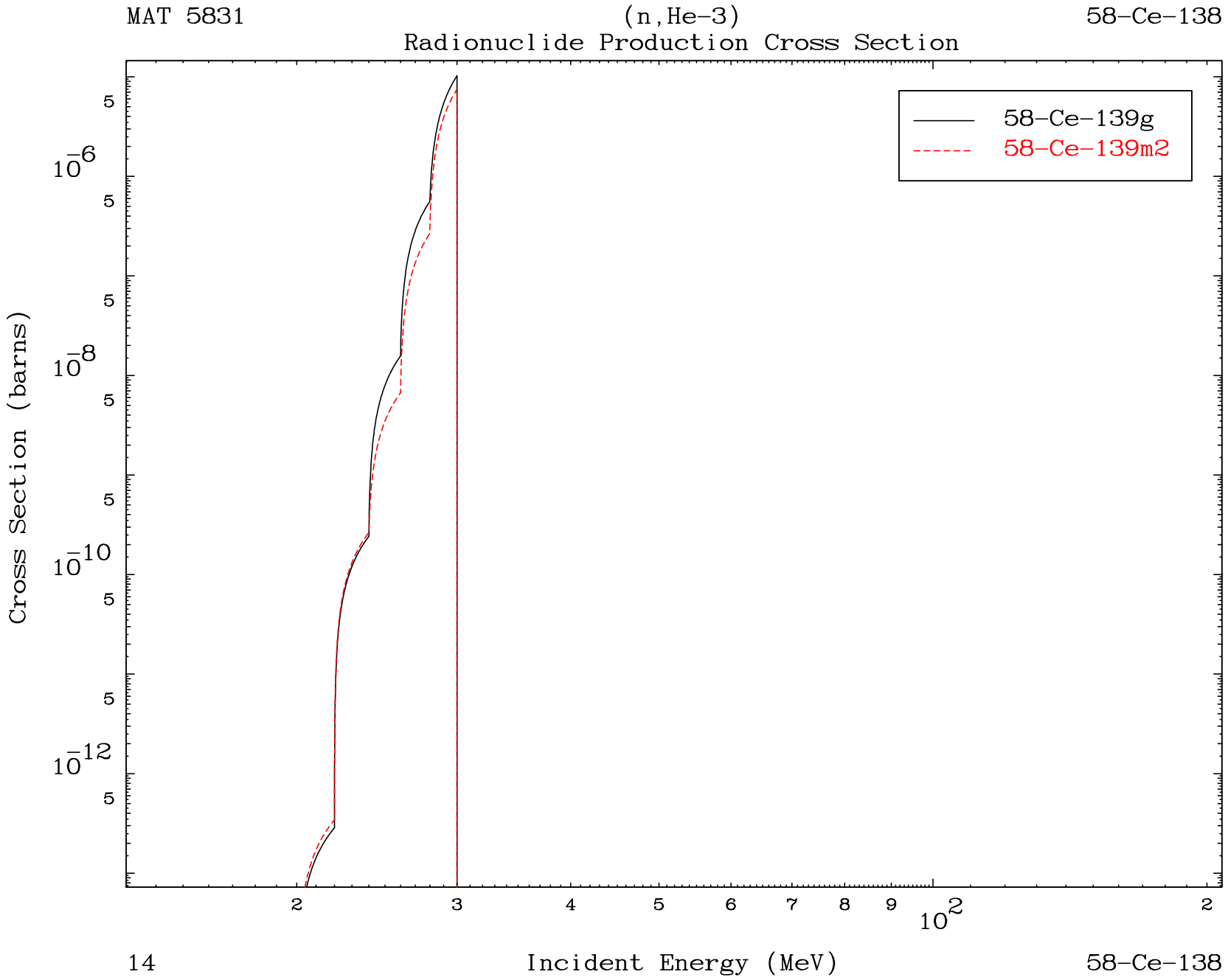

0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

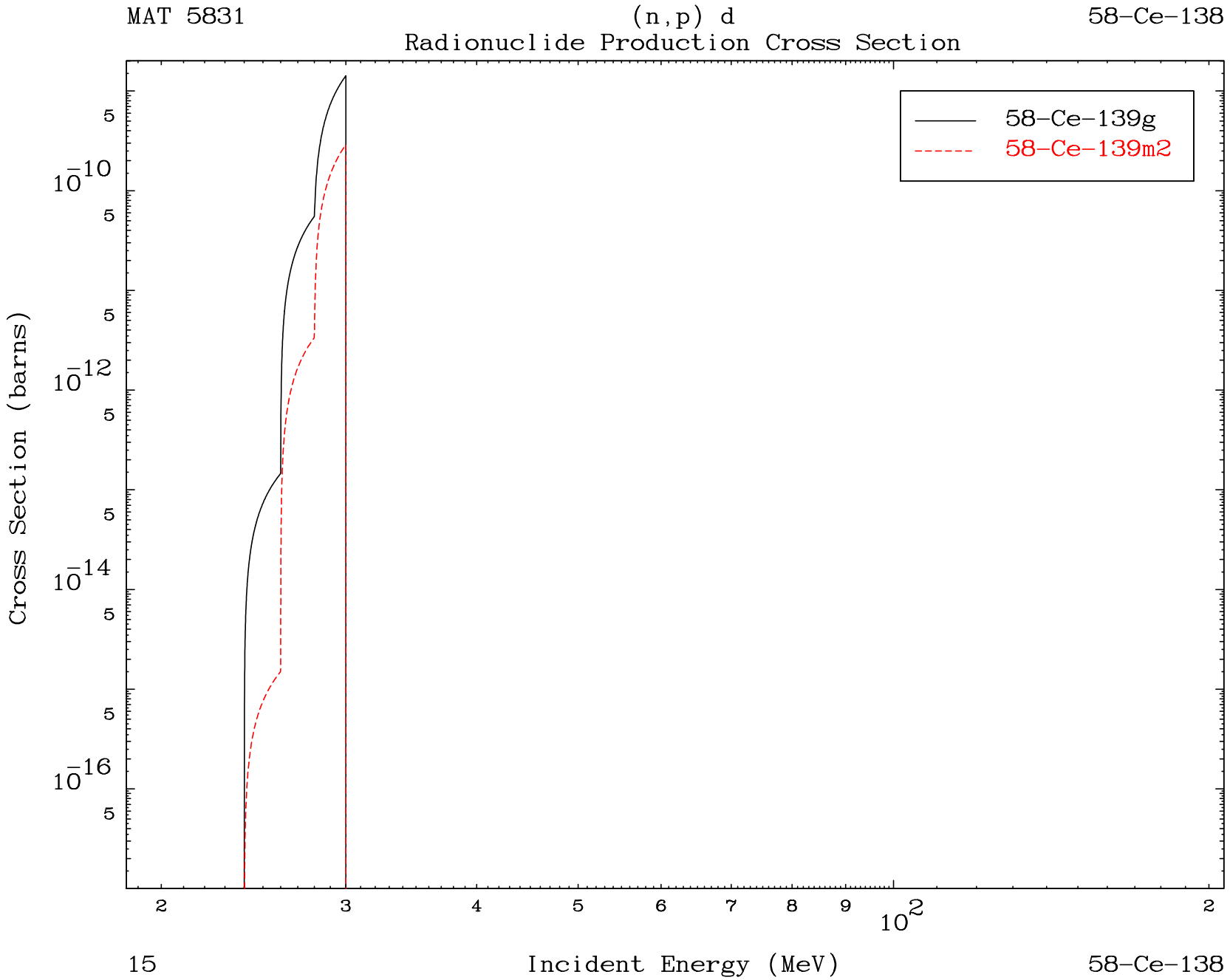

MAT 5831
(α,α) Levels
58-Ce-138
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-138


MAT 5831
Inelastic
58-Ce-138
Radionuclide Production Cross Section
60-Nd-141g
60-Nd-141m2
Cross Section (barns)
Incident Energy (MeV)
11
58-Ce-138


MAT 5831
(n,n') α
58-Ce-138
Radionuclide Production Cross Section
58-Ce-137g
58-Ce-137m2
Cross Section (barns)
Incident Energy (MeV)
58-Ce-138
12


MAT 5831
(n,2n) p
58-Ce-138
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
Incident Energy (MeV)
13
58-Ce-138


MAT 5831
(n,He-3)
58-Ce-138
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
58-Ce-138


MAT 5831
(n,p) d
58-Ce-138
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
15
58-Ce-138