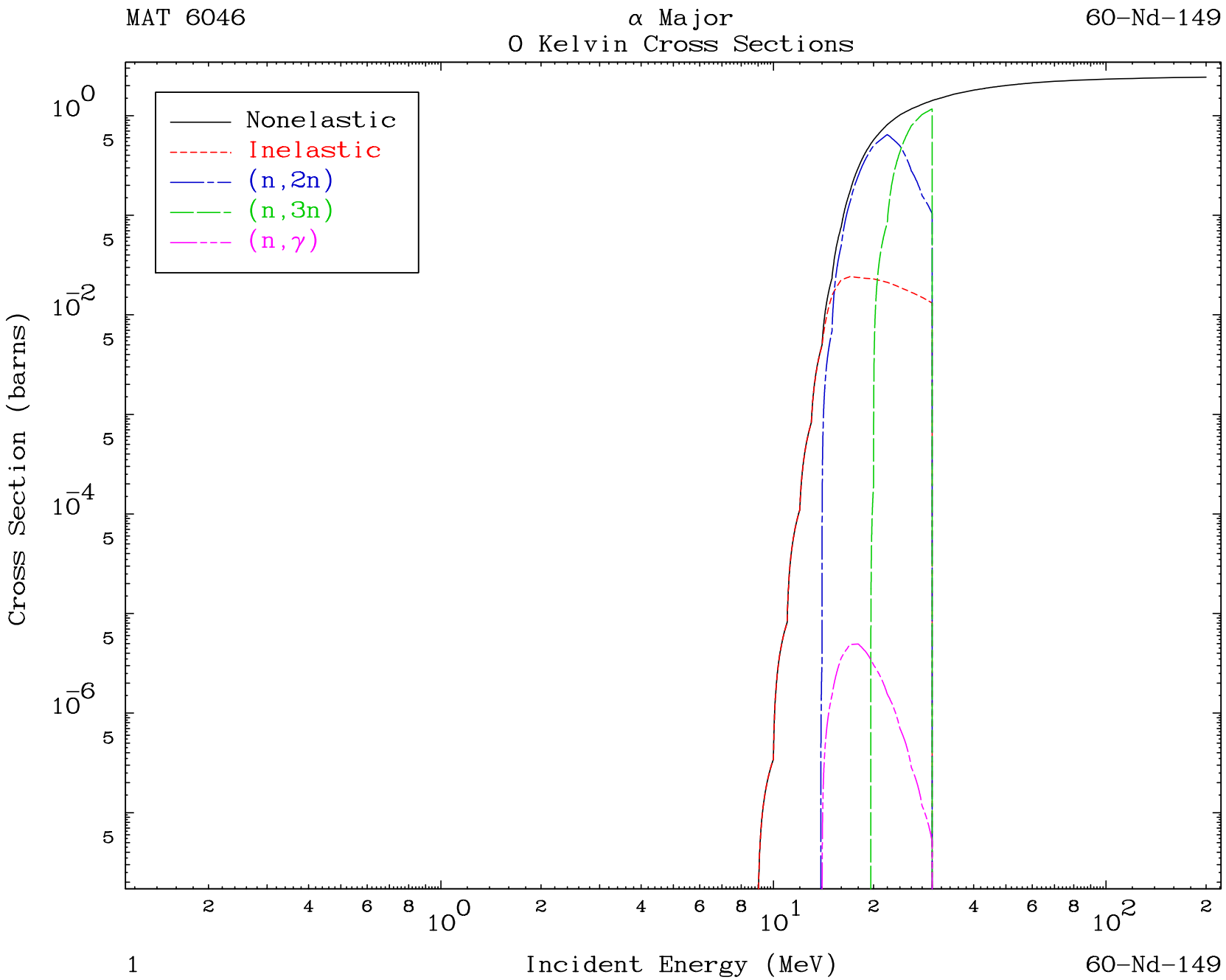
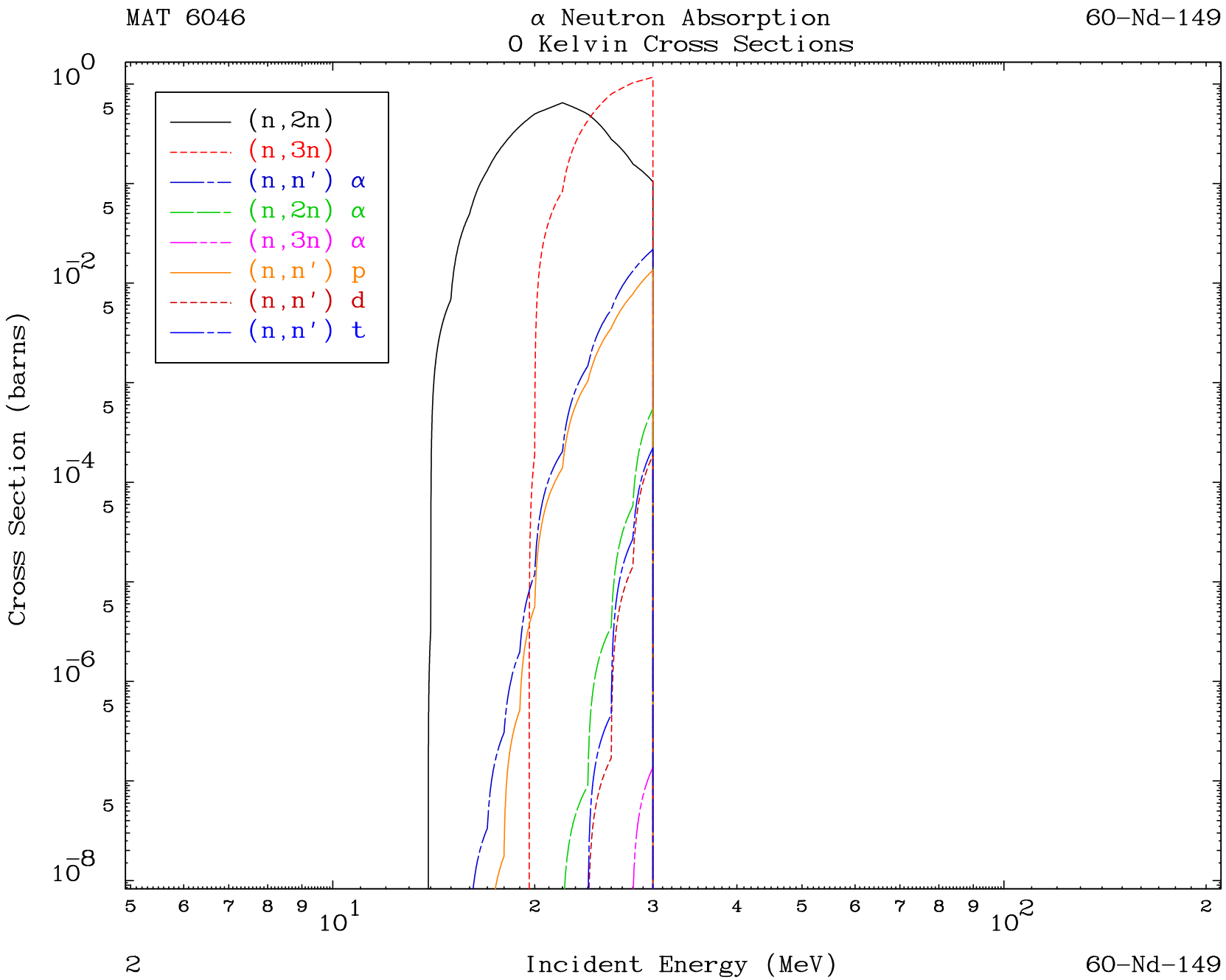
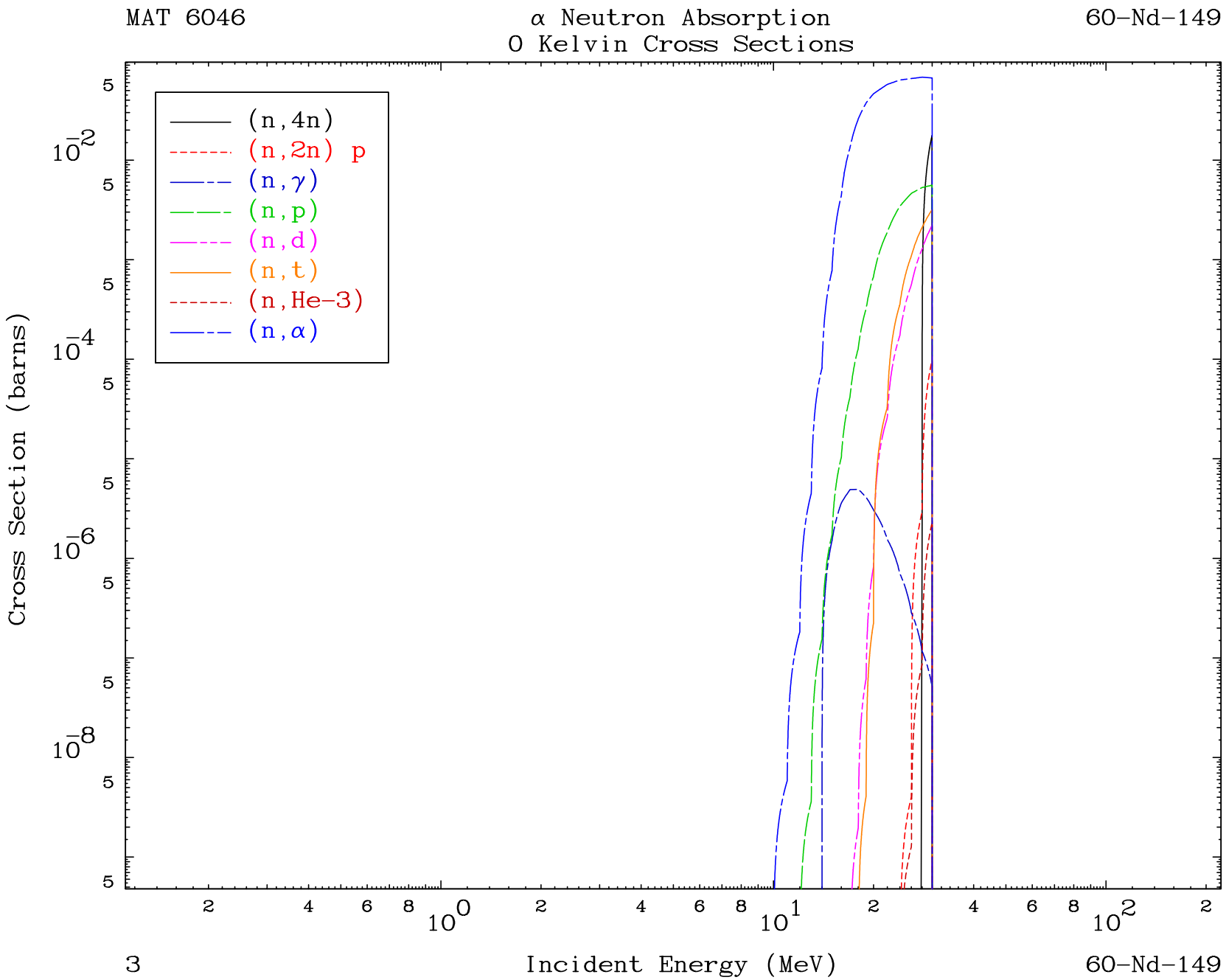
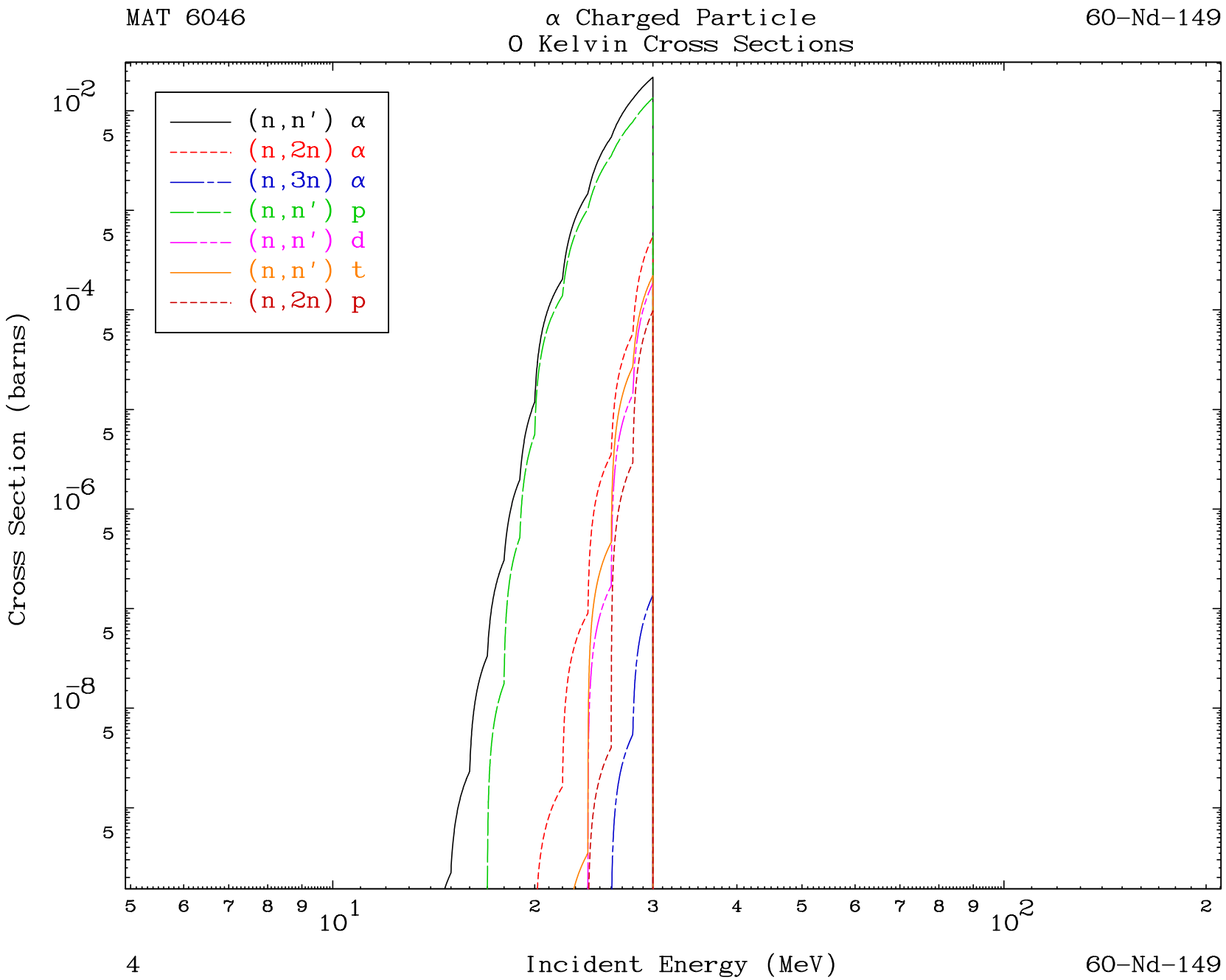
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

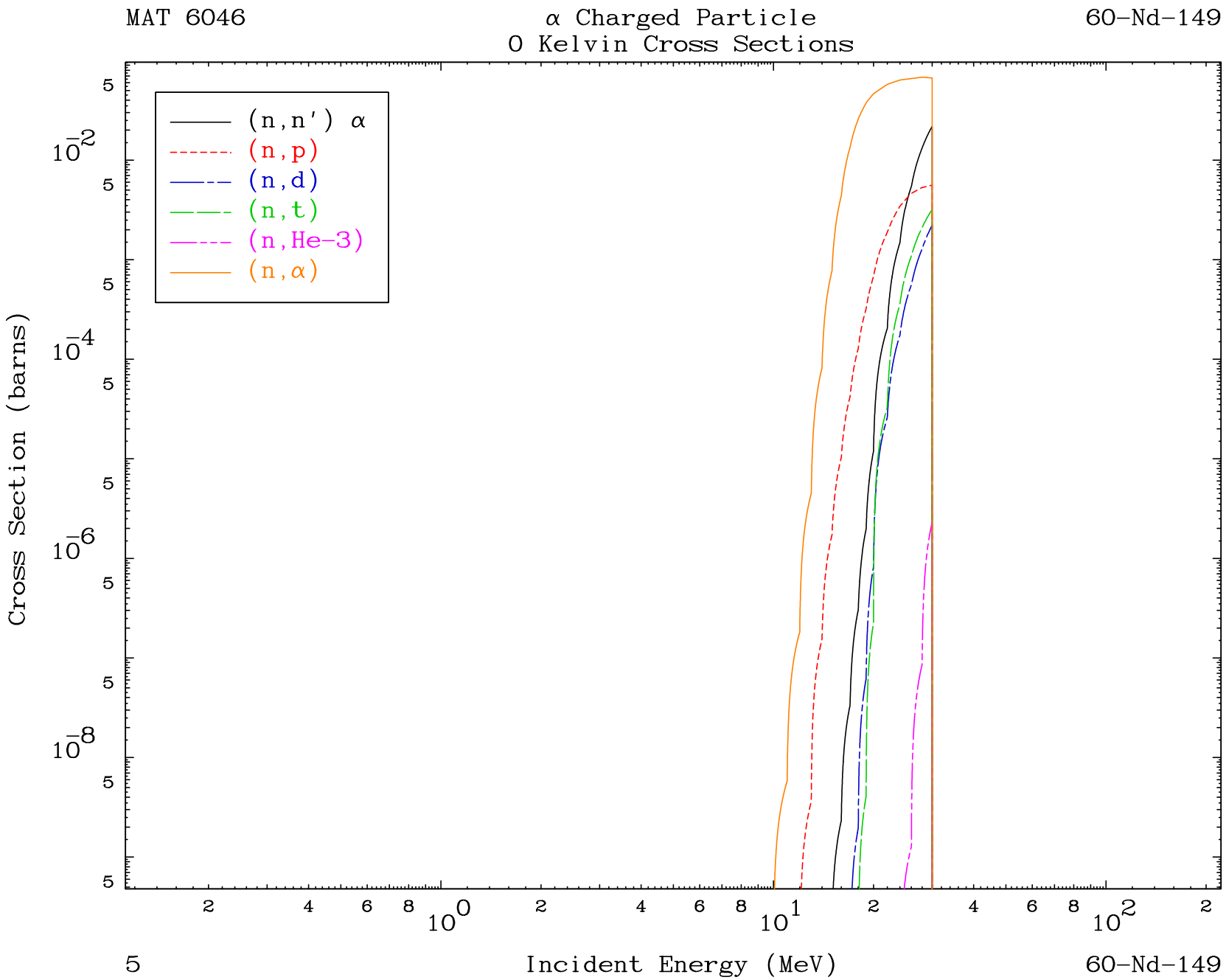
Press Mouse Button to Start

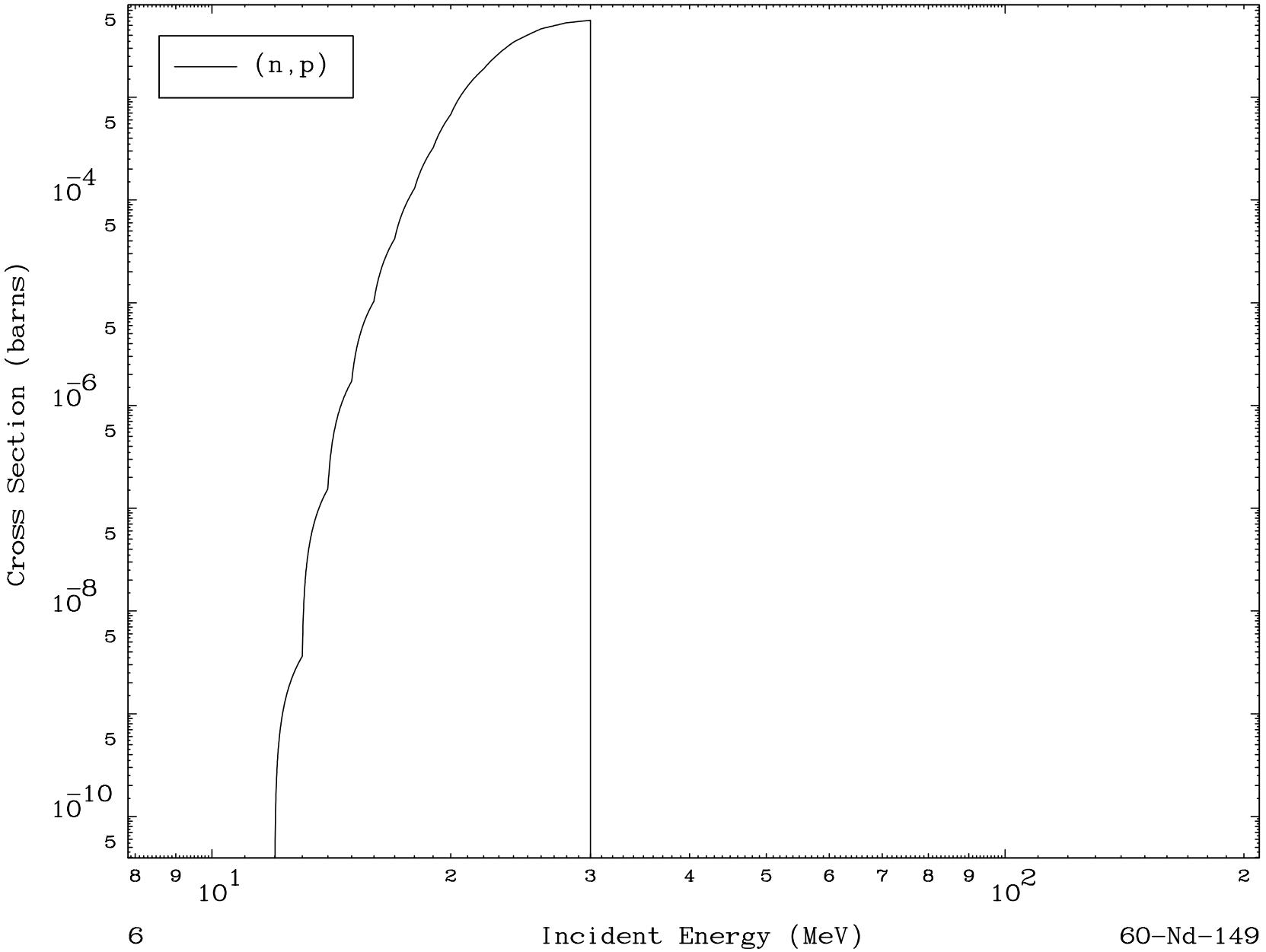

MAT 6046
α Major
60-Nd-149
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-149
1

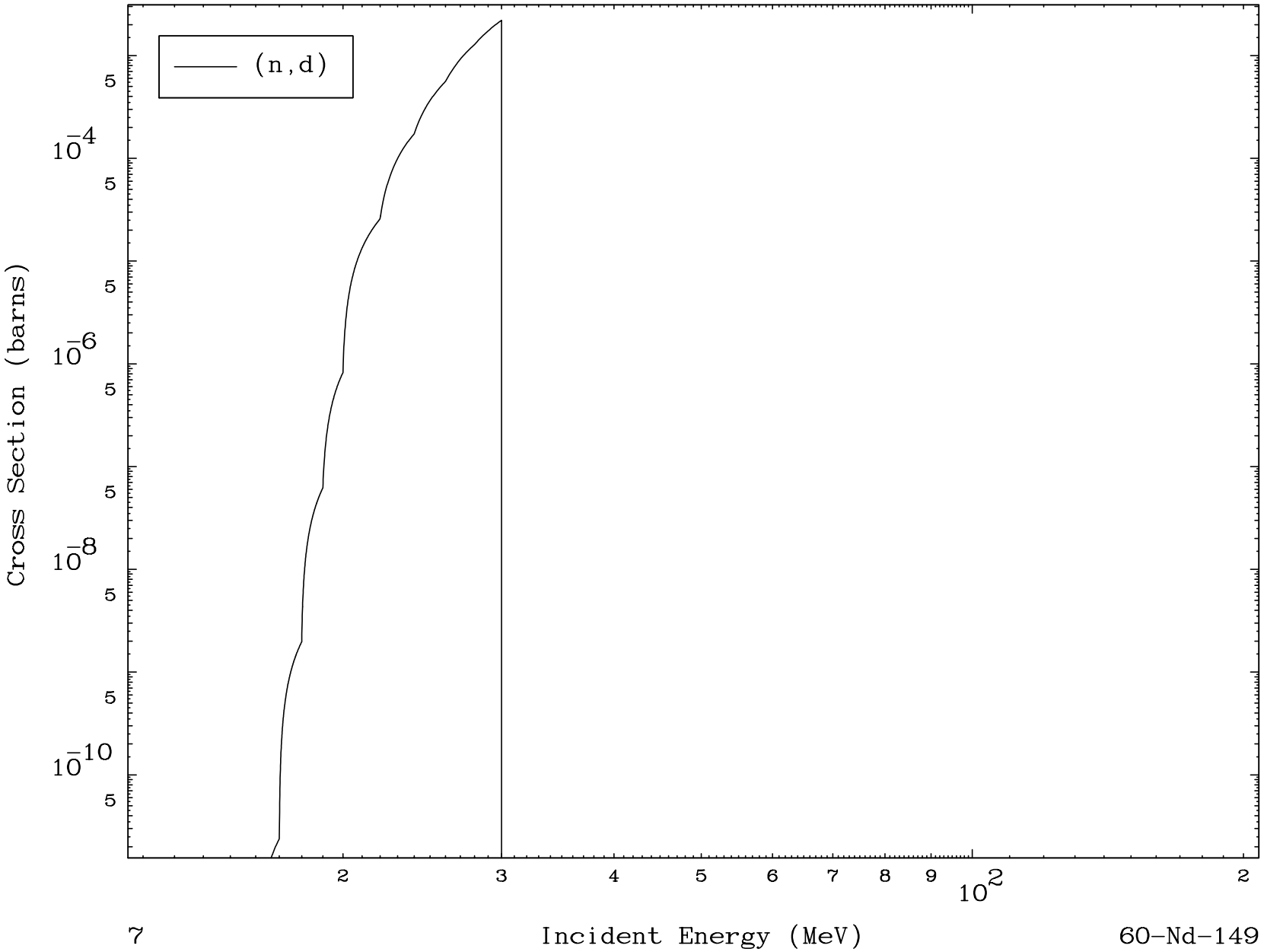

MAT 6046
α Neutron Absorption
0 Kelvin Cross Sections
60-Nd-149
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
60-Nd-149


MAT 6046
α Neutron Absorption
0 Kelvin Cross Sections
60-Nd-149
(n,4n)
(n,2n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
3
60-Nd-149

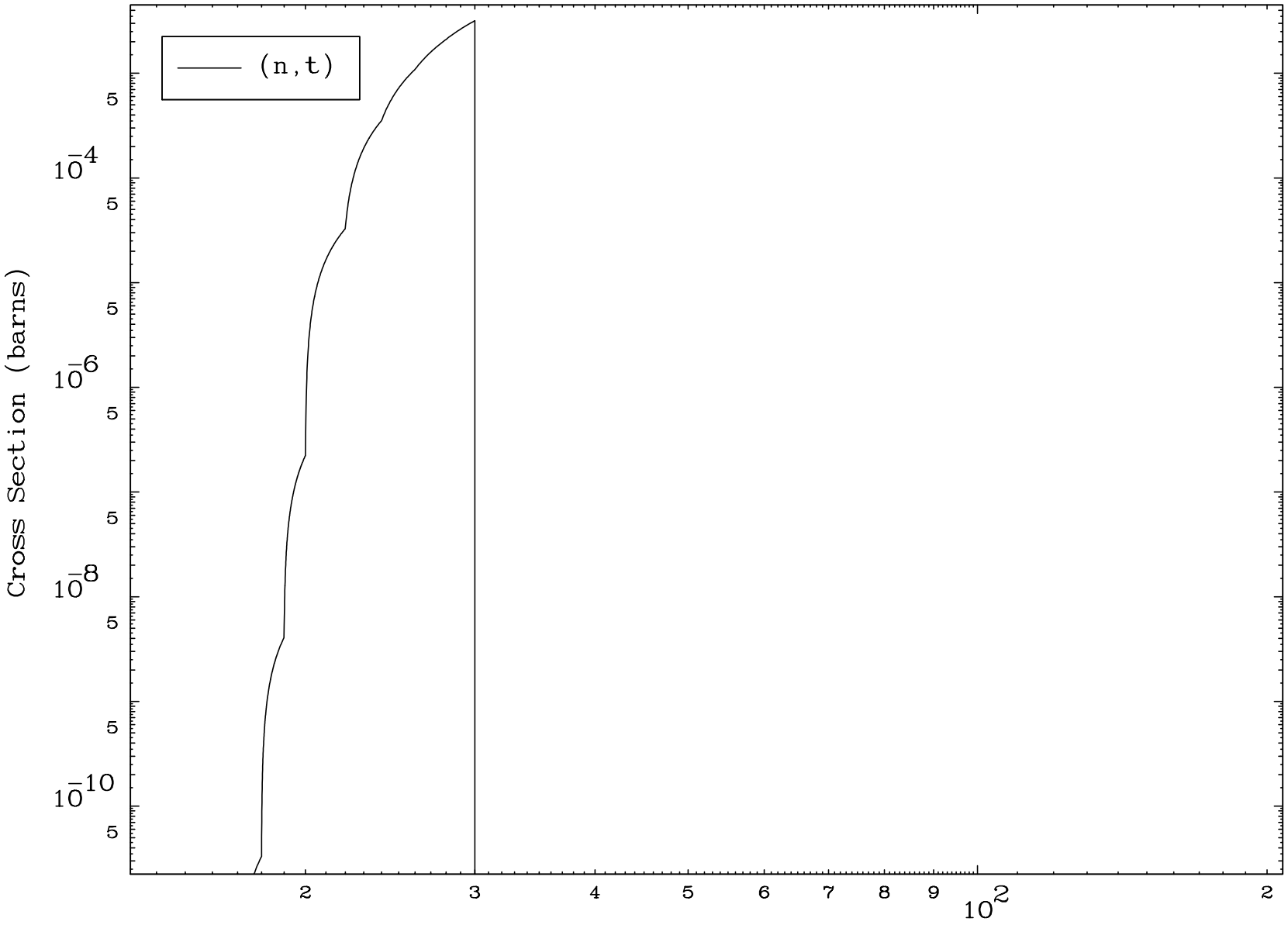

MAT 6046
α Charged Particle
0 Kelvin Cross Sections
60-Nd-149
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
4
60-Nd-149


MAT 6046
α Charged Particle
0 Kelvin Cross Sections
60-Nd-149
(n,n') α
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-149

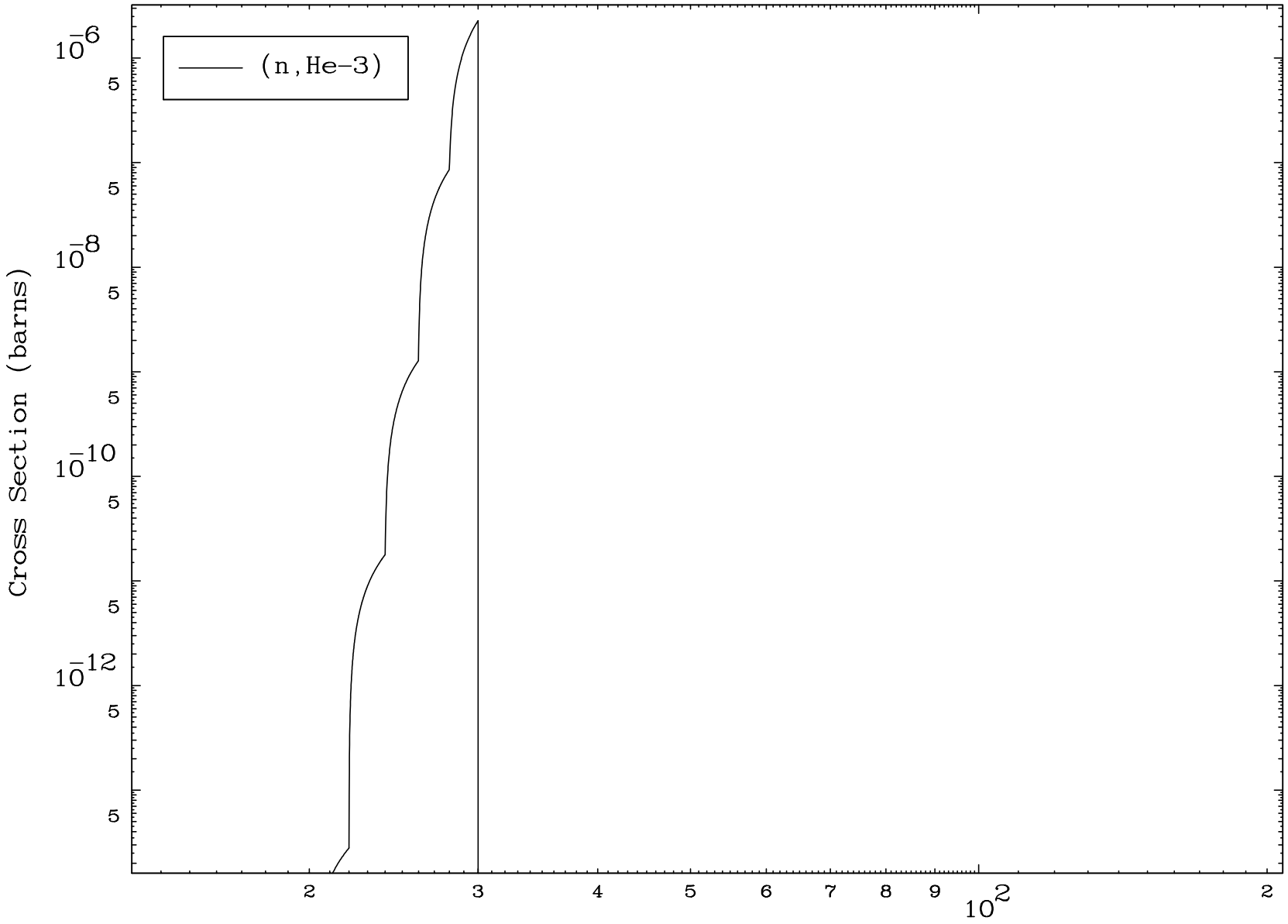

0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

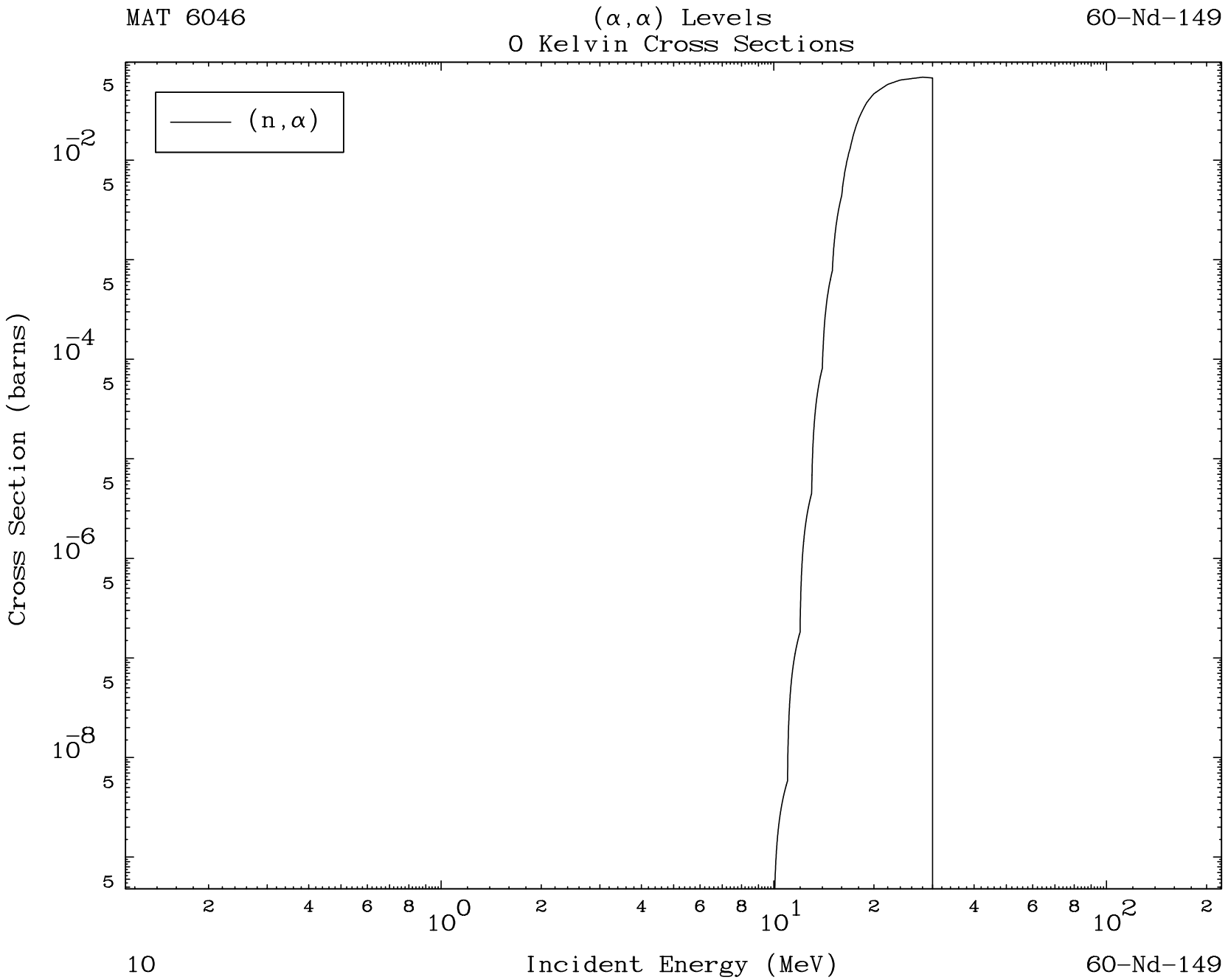

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

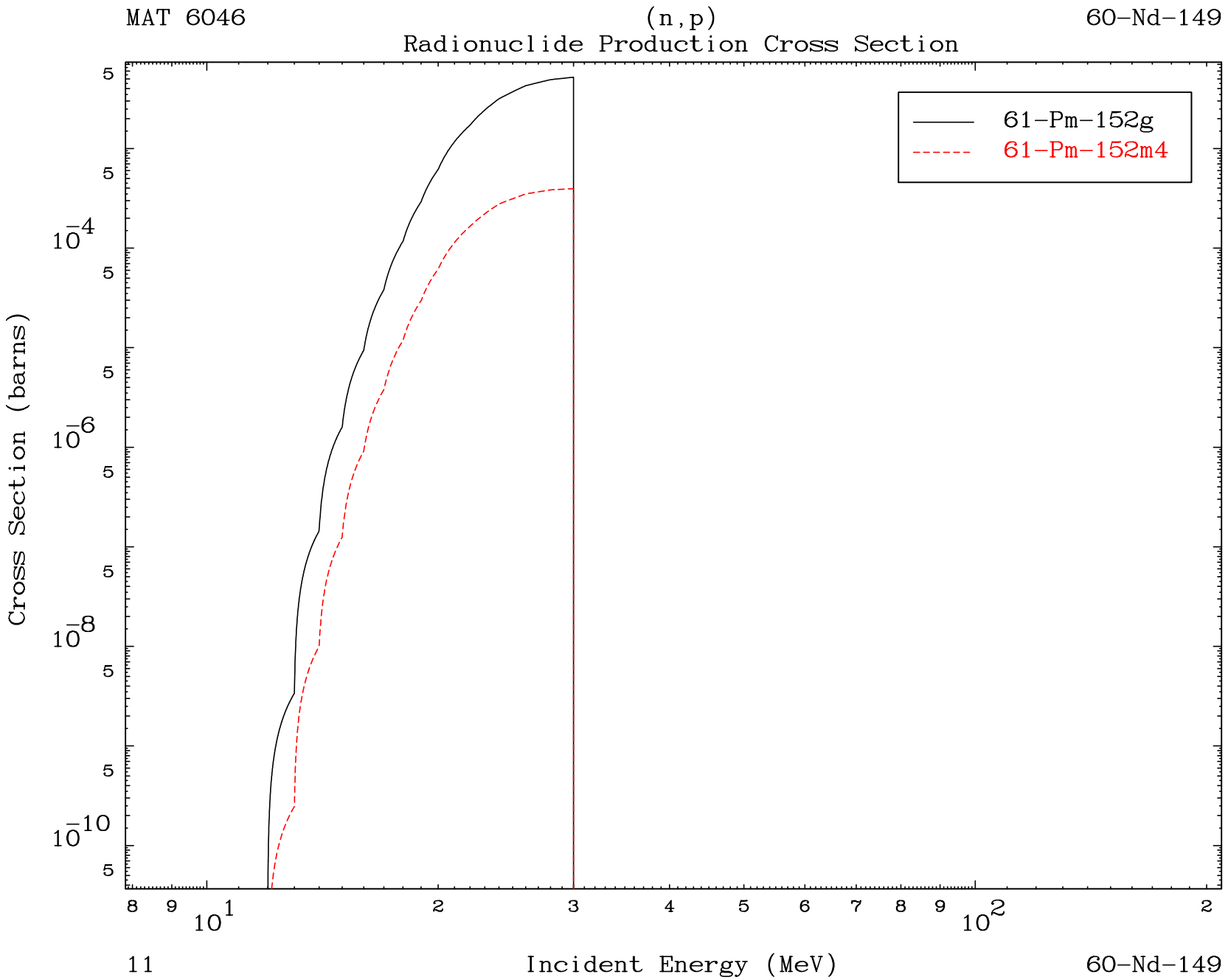
0 Kelvin Cross Sections



0 Kelvin Cross Sections




MAT 6046
(α,α) Levels
60-Nd-149
0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
60-Nd-149


MAT 6046
(n,p)
60-Nd-149
Radionuclide Production Cross Section
61-Pm-152g
61-Pm-152m4
Cross Section (barns)
Incident Energy (MeV)
11
60-Nd-149