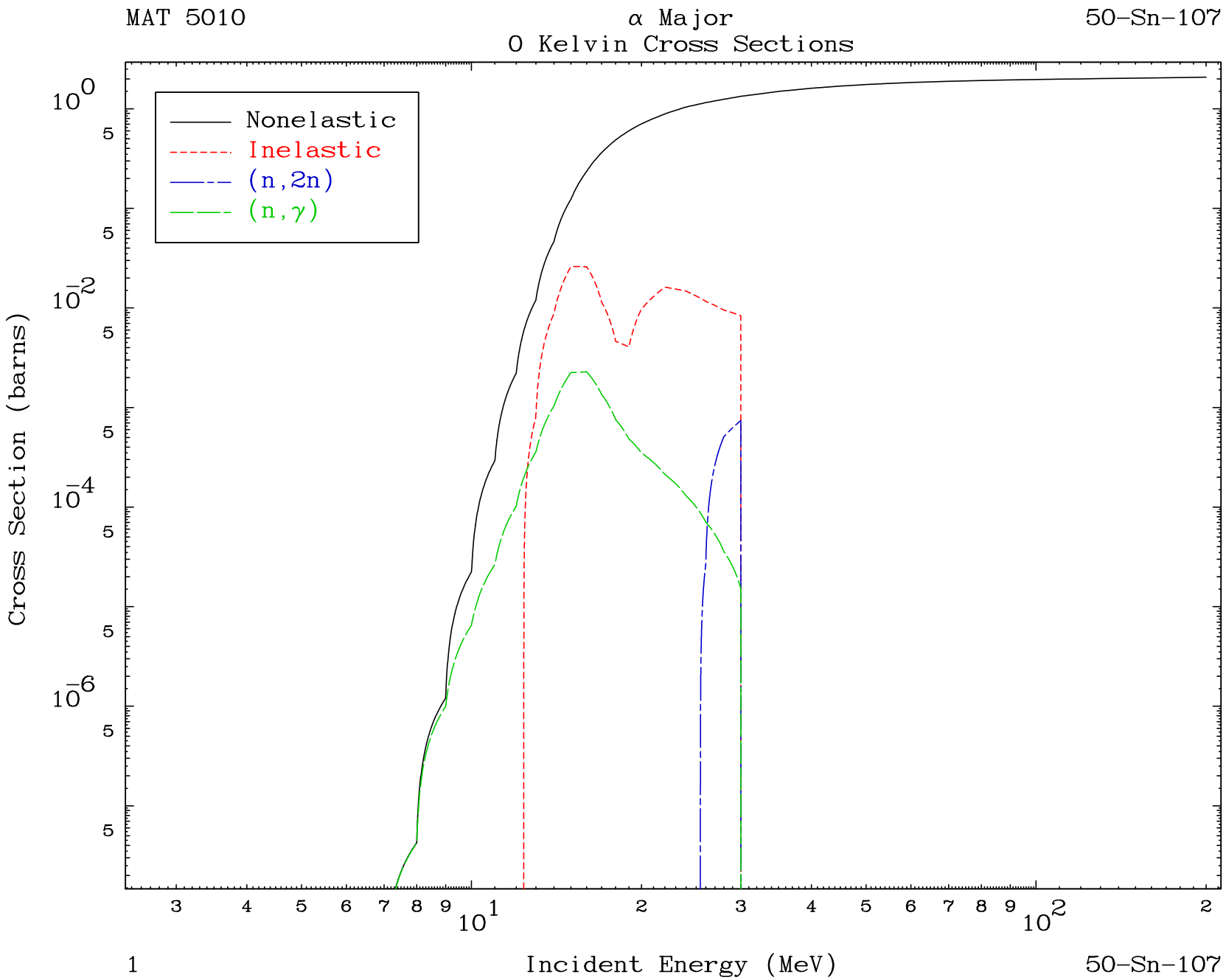
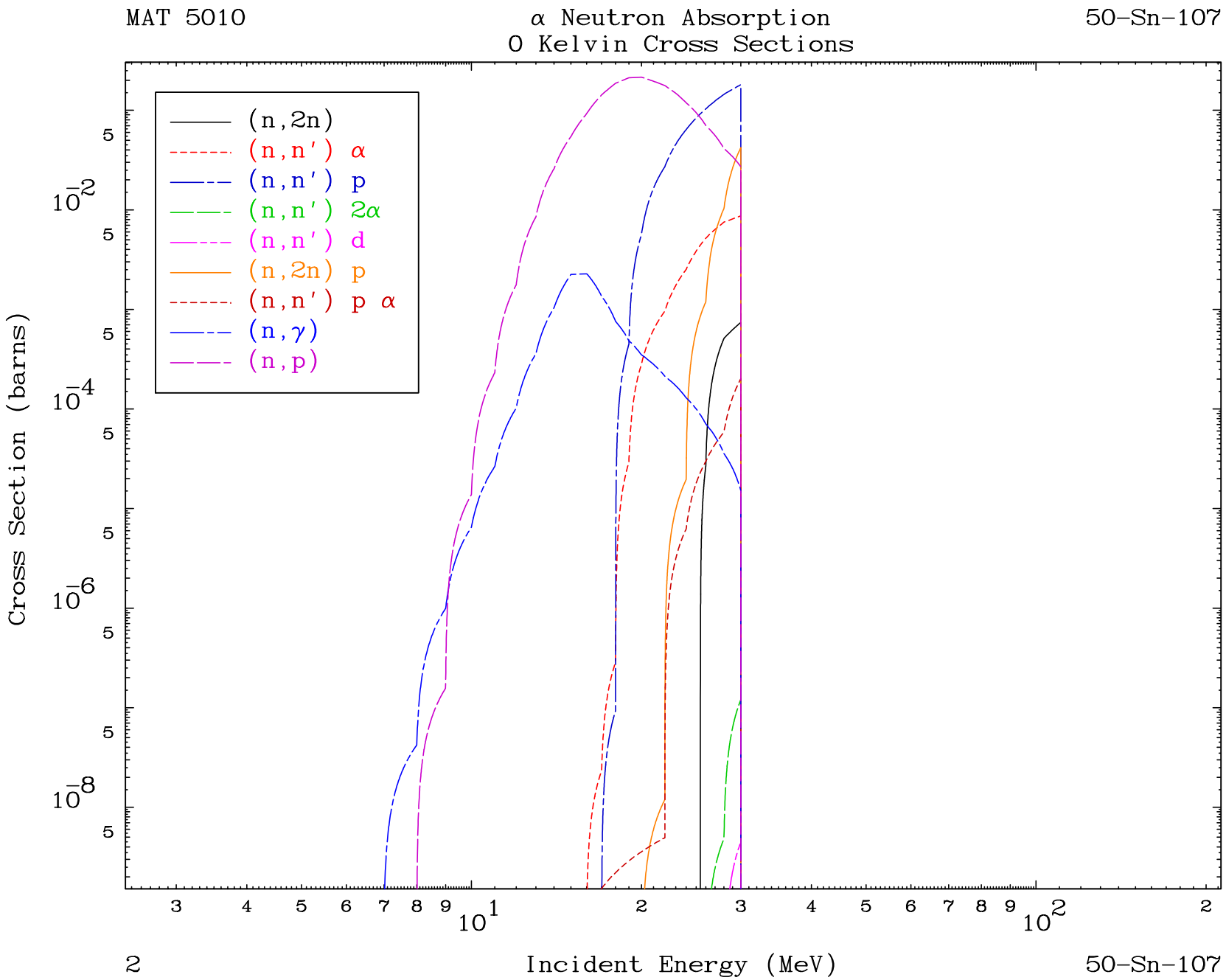
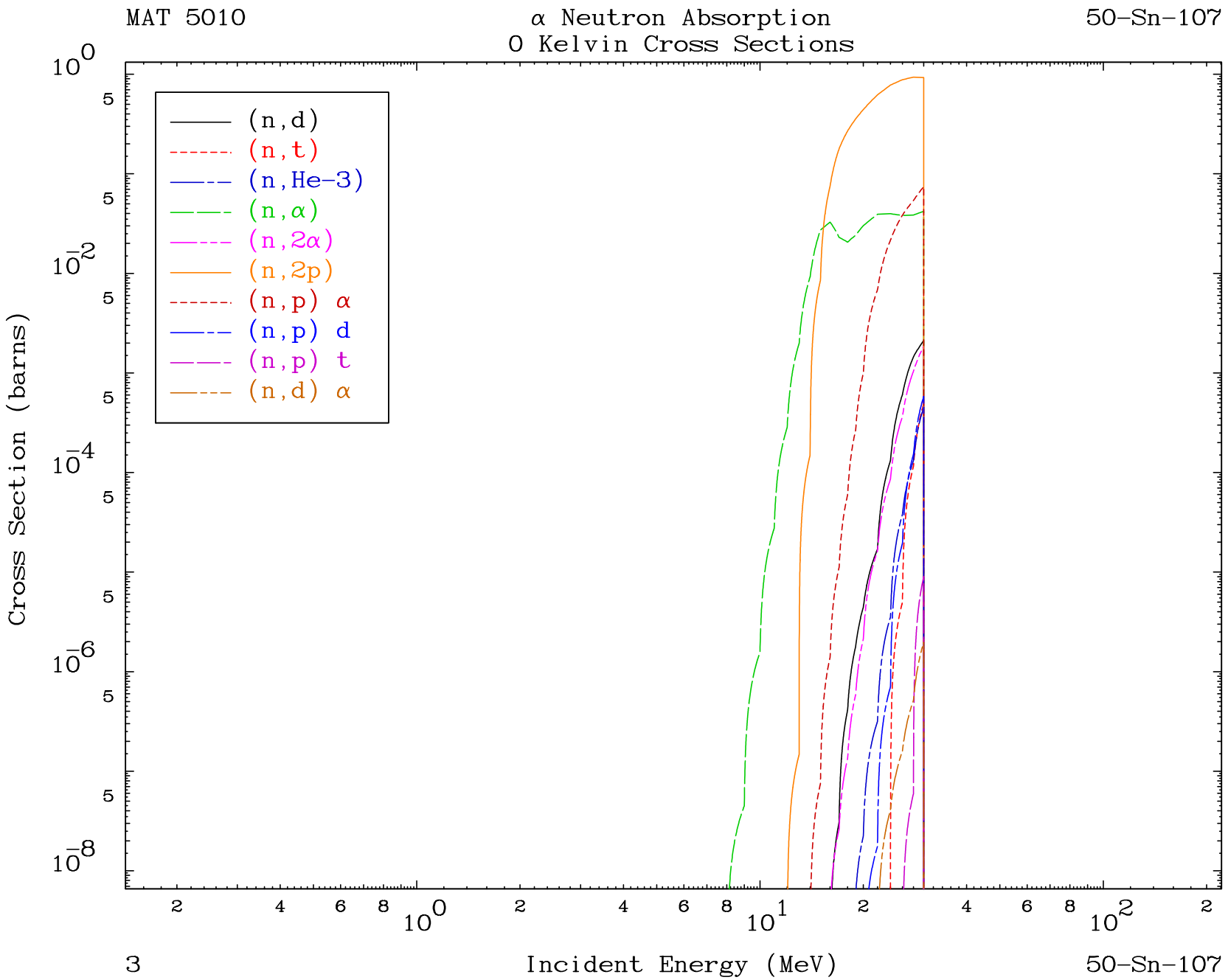
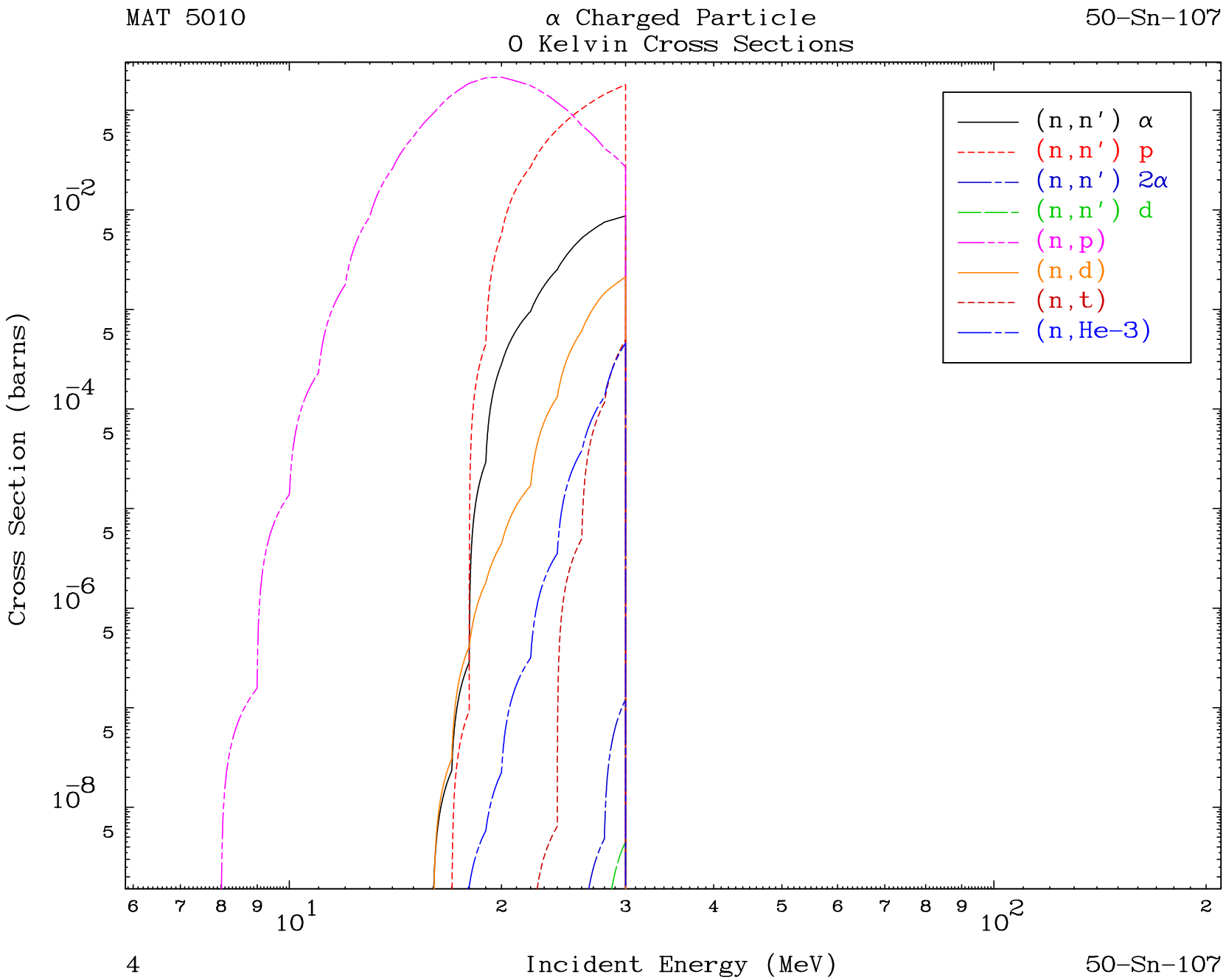
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

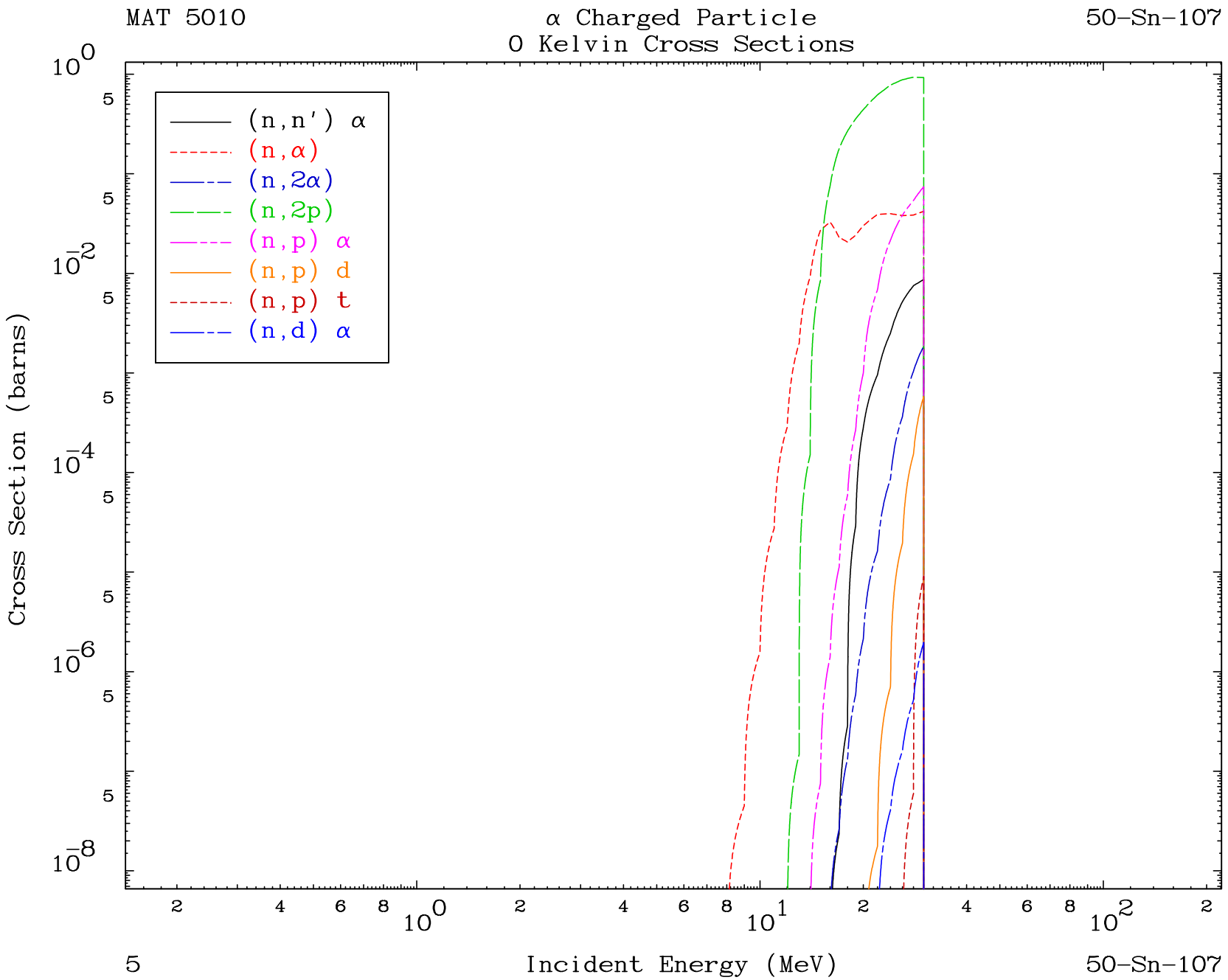
Press Mouse Button to Start

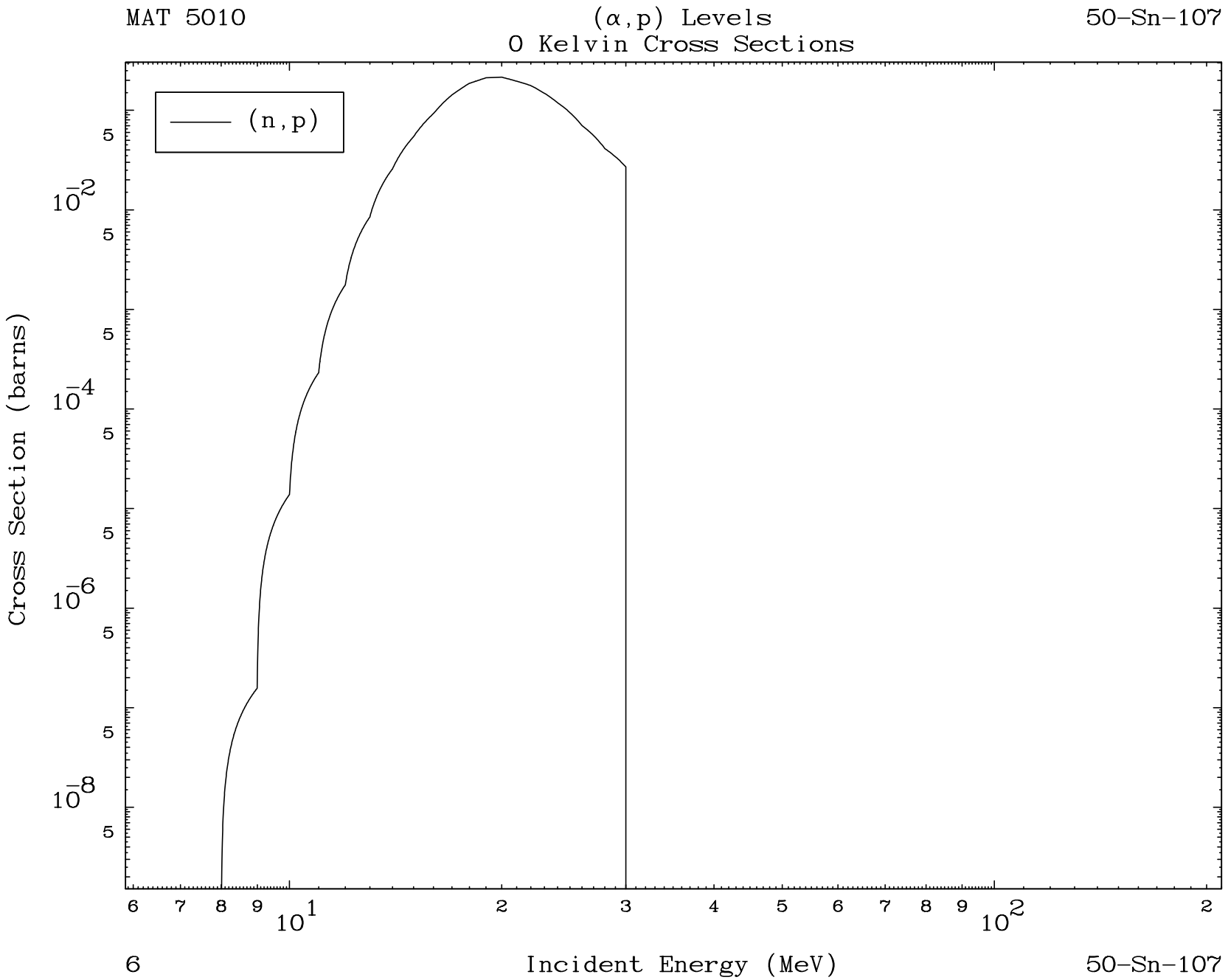

MAT 5010
α Major
50-Sn-107
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-107

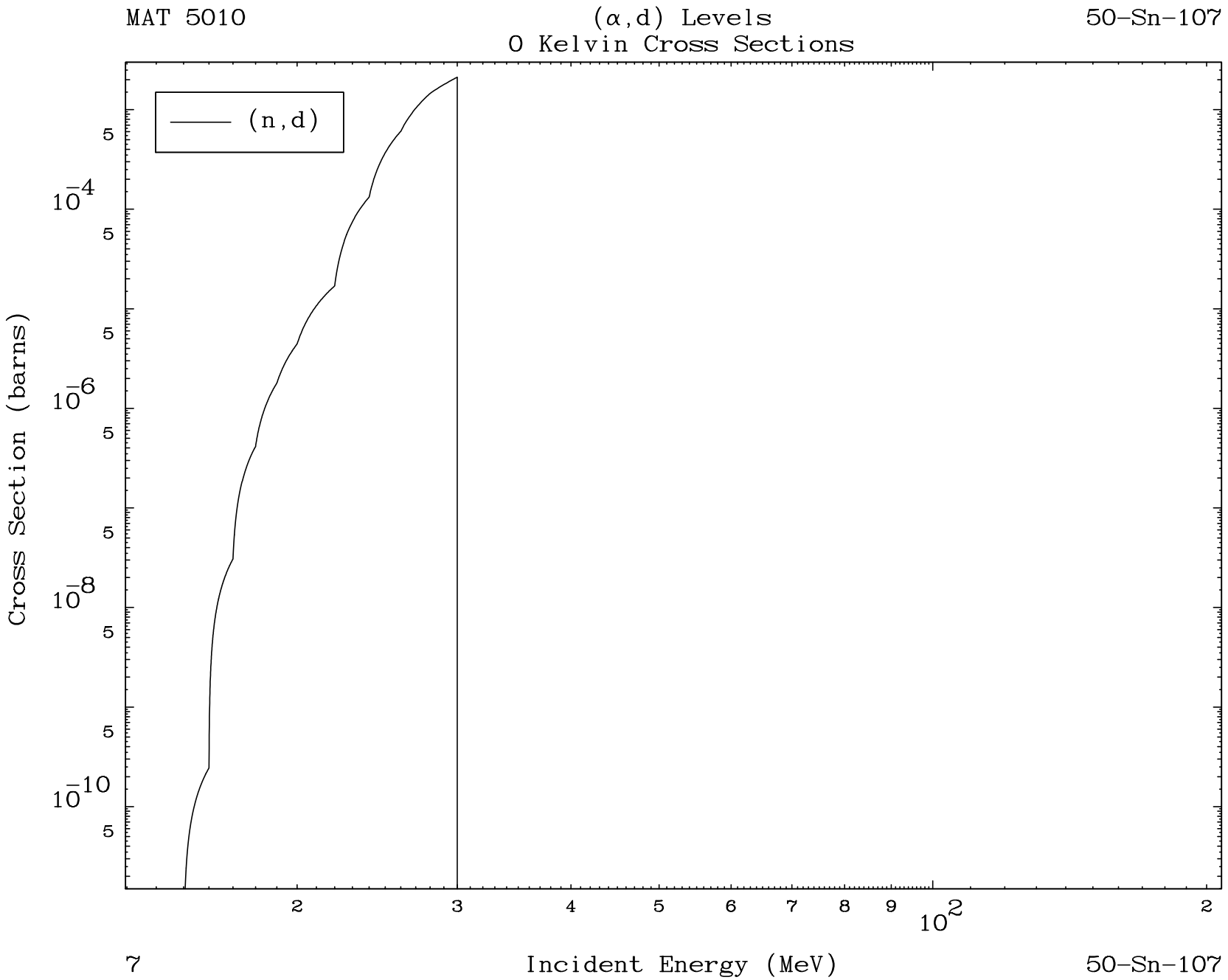

MAT 5010
α Neutron Absorption
0 Kelvin Cross Sections
50-Sn-107
(n,2n)
(n,n') α
(n,n') p
(n,n') 2α
(n,n') d
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-107
2

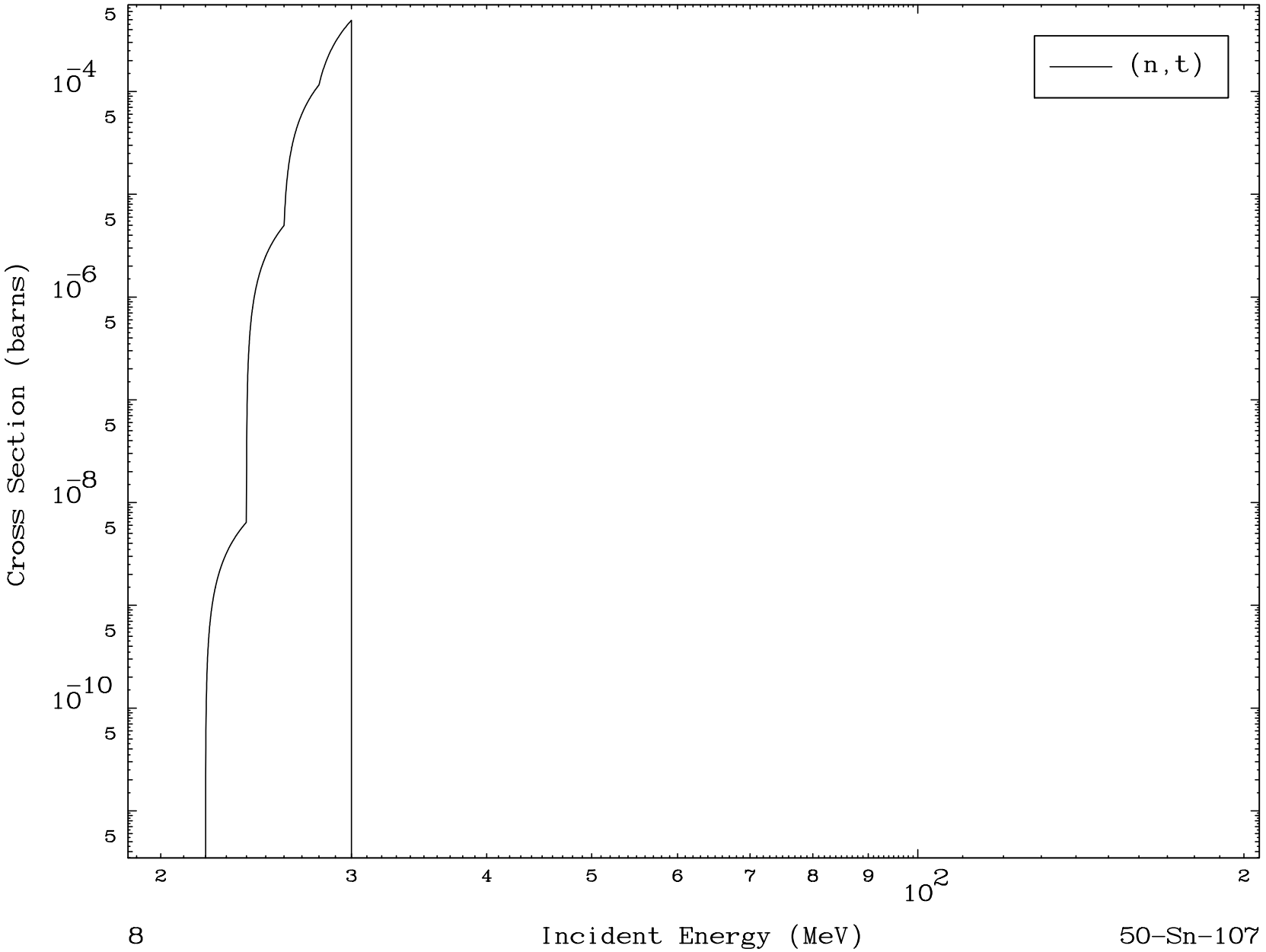

MAT 5010
α Neutron Absorption
0 Kelvin Cross Sections
50-Sn-107
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
50-Sn-107

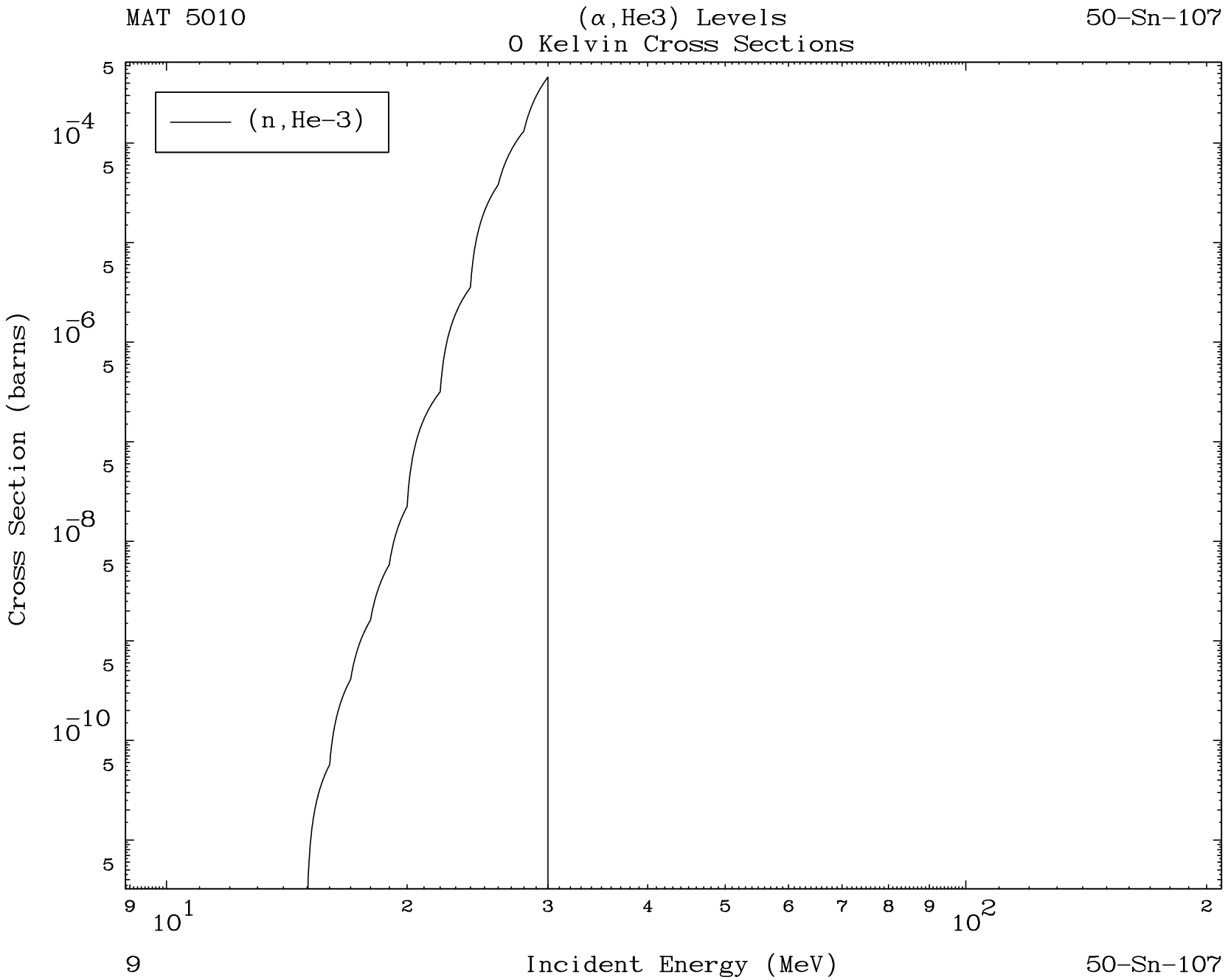

MAT 5010
α Charged Particle
0 Kelvin Cross Sections
50-Sn-107
(n,n') α
(n,n') p
(n,n') 2α
(n,n') d
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-107
4

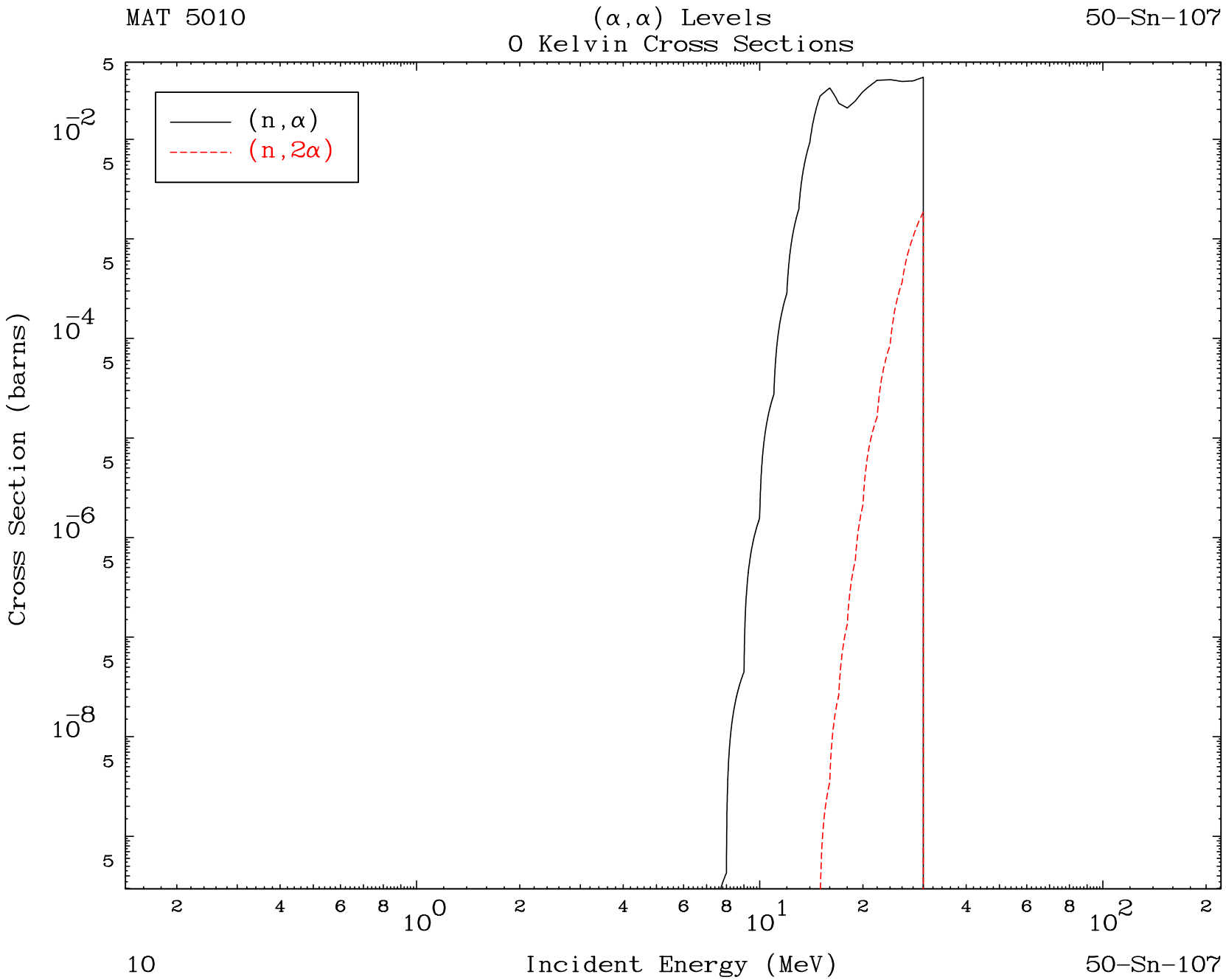

MAT 5010
α Charged Particle
0 Kelvin Cross Sections
50-Sn-107
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
5
50-Sn-107

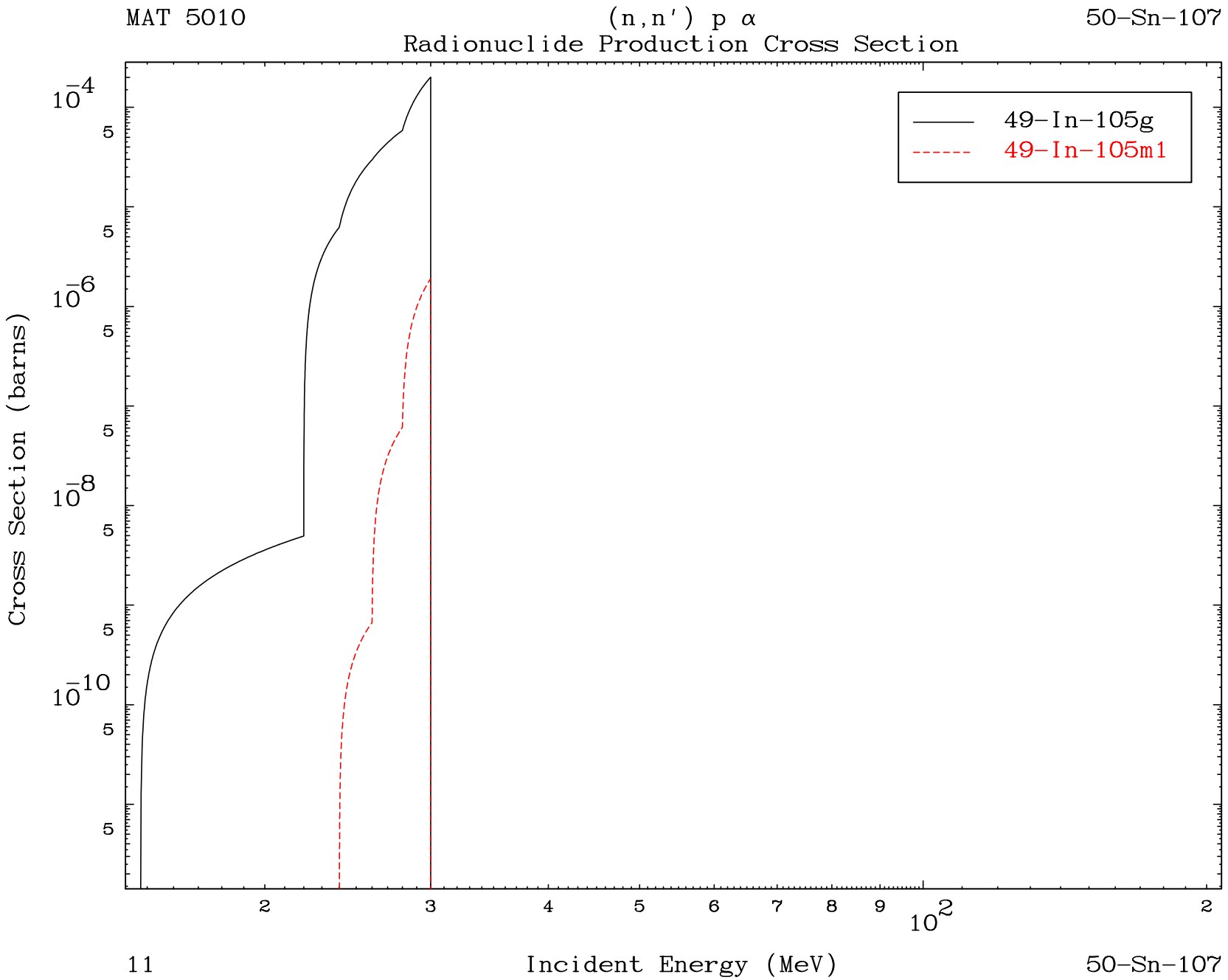

MAT 5010
(α,p) Levels
50-Sn-107
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
50-Sn-107

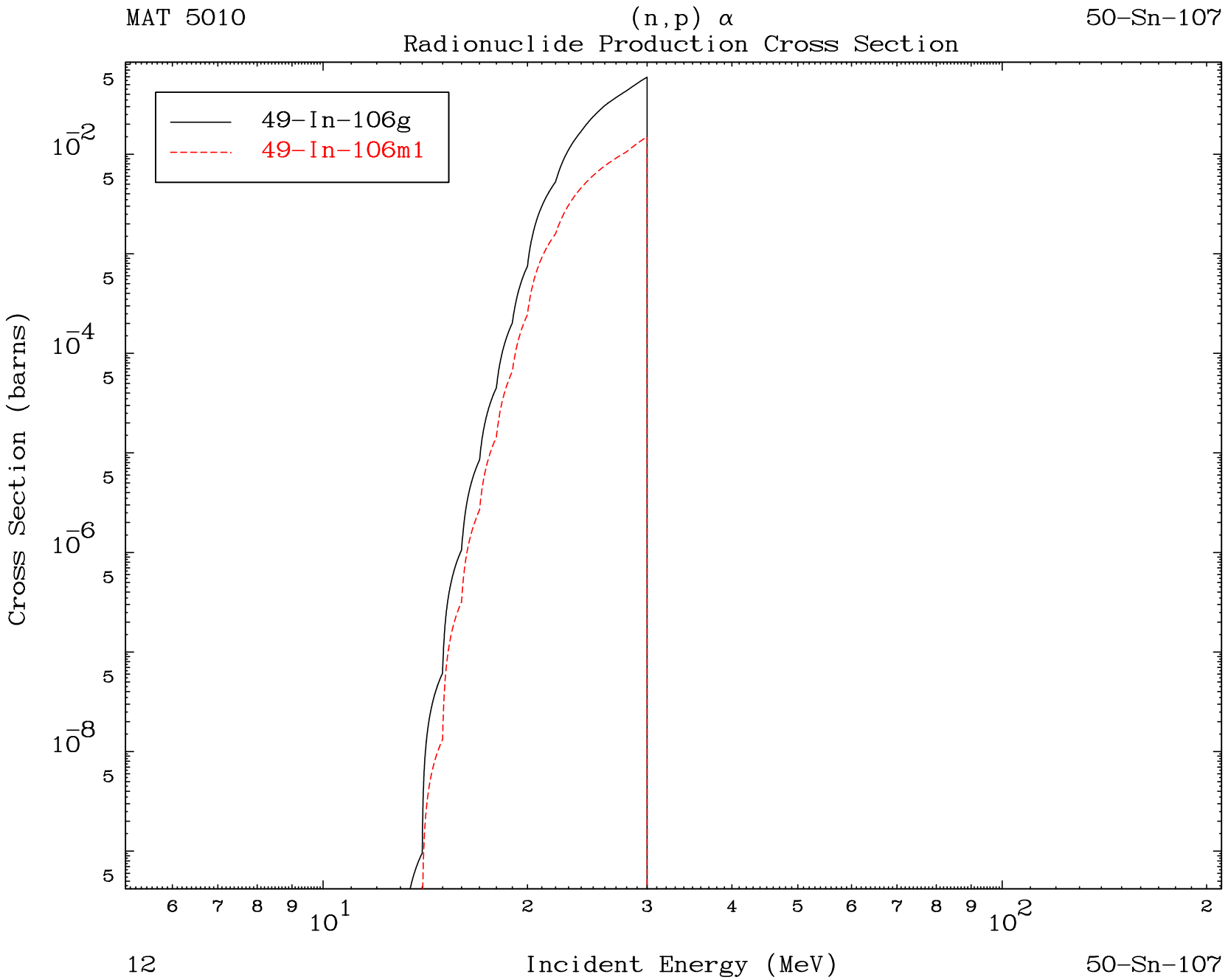

MAT 5010
(α,d) Levels
50-Sn-107
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10+2
2
7
Incident Energy (MeV)
50-Sn-107

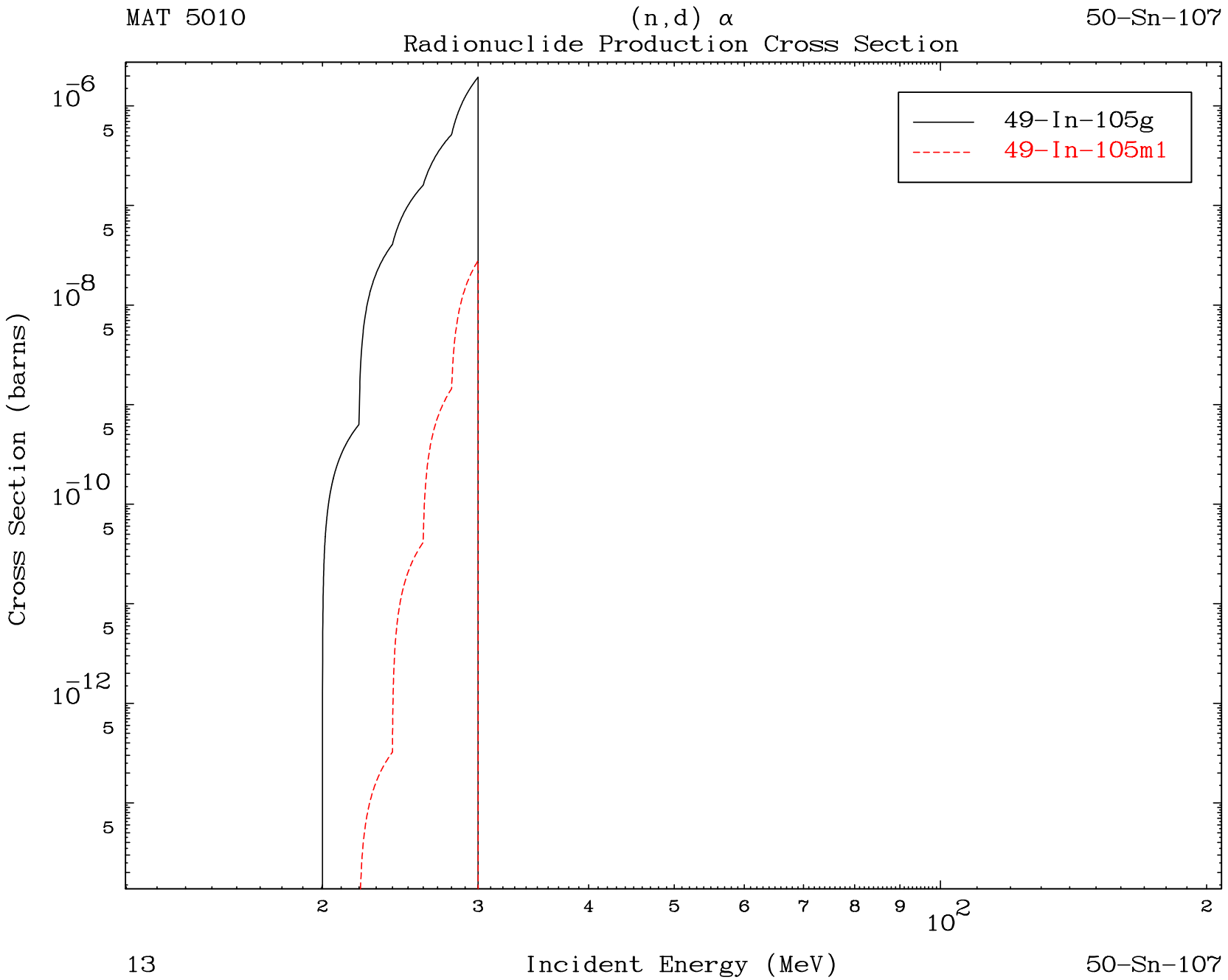

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)


MAT 5010
(α,He3) Levels
50-Sn-107
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
50-Sn-107


MAT 5010
(α,α) Levels
50-Sn-107
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-107
10


MAT 5010
(n,n') p α
50-Sn-107
Radionuclide Production Cross Section
49-In-105g
49-In-105m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
50-Sn-107


MAT 5010
(n,p) α
50-Sn-107
Radionuclide Production Cross Section
49-In-106g
49-In-106m1
Cross Section (barns)
Incident Energy (MeV)
12
50-Sn-107


MAT 5010
(n,d) α
50-Sn-107
Radionuclide Production Cross Section
49-In-105g
49-In-105m1
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)
50-Sn-107