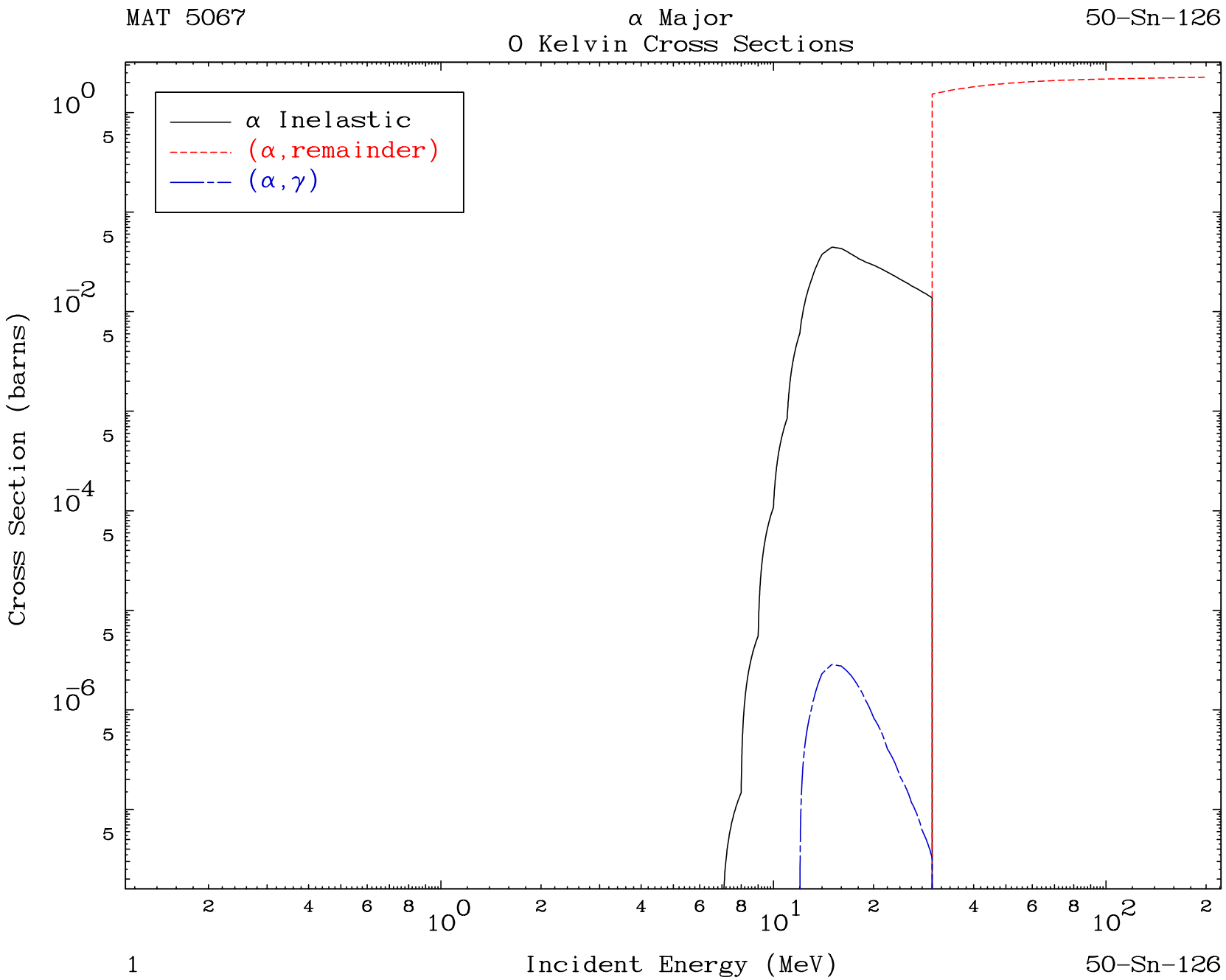
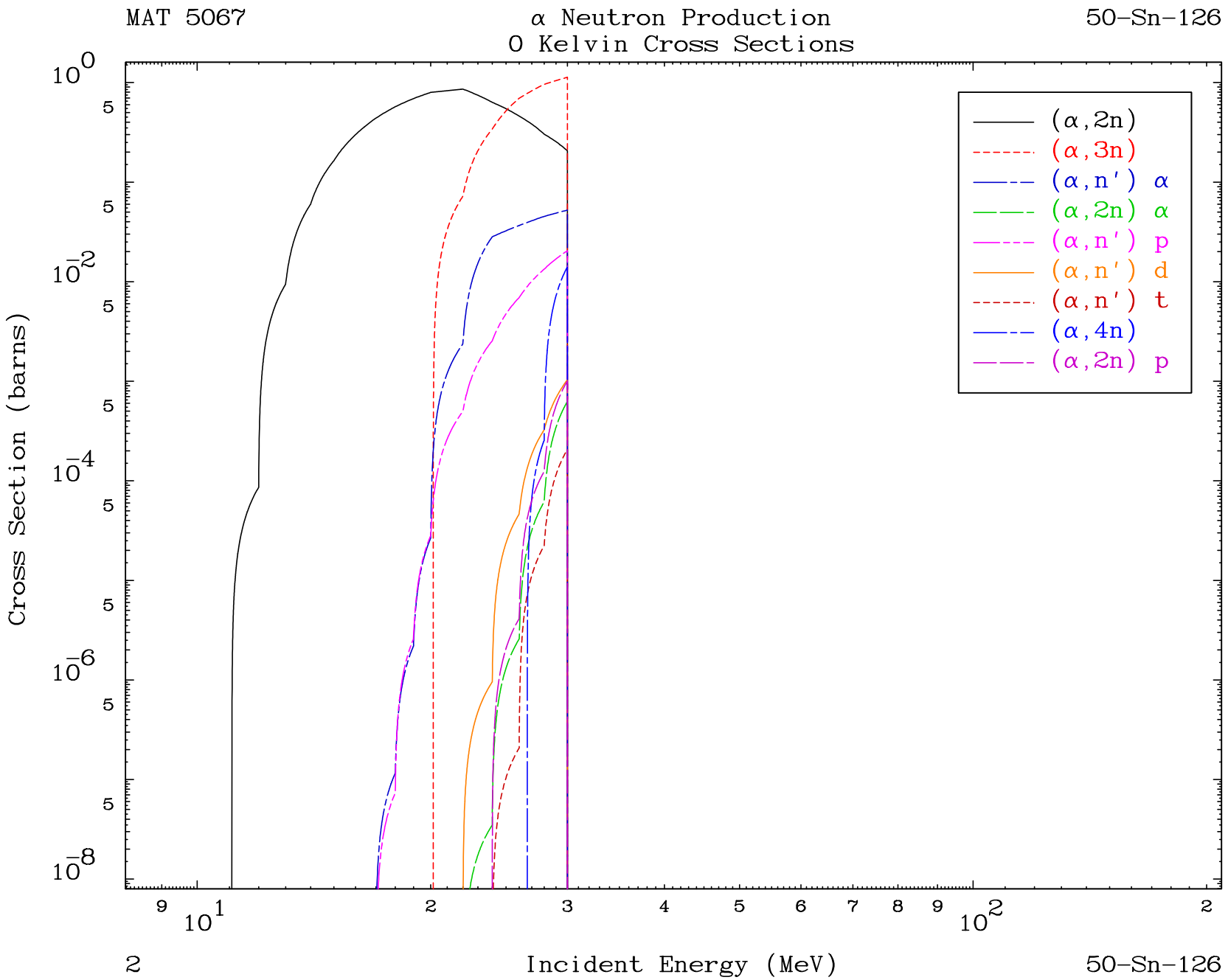
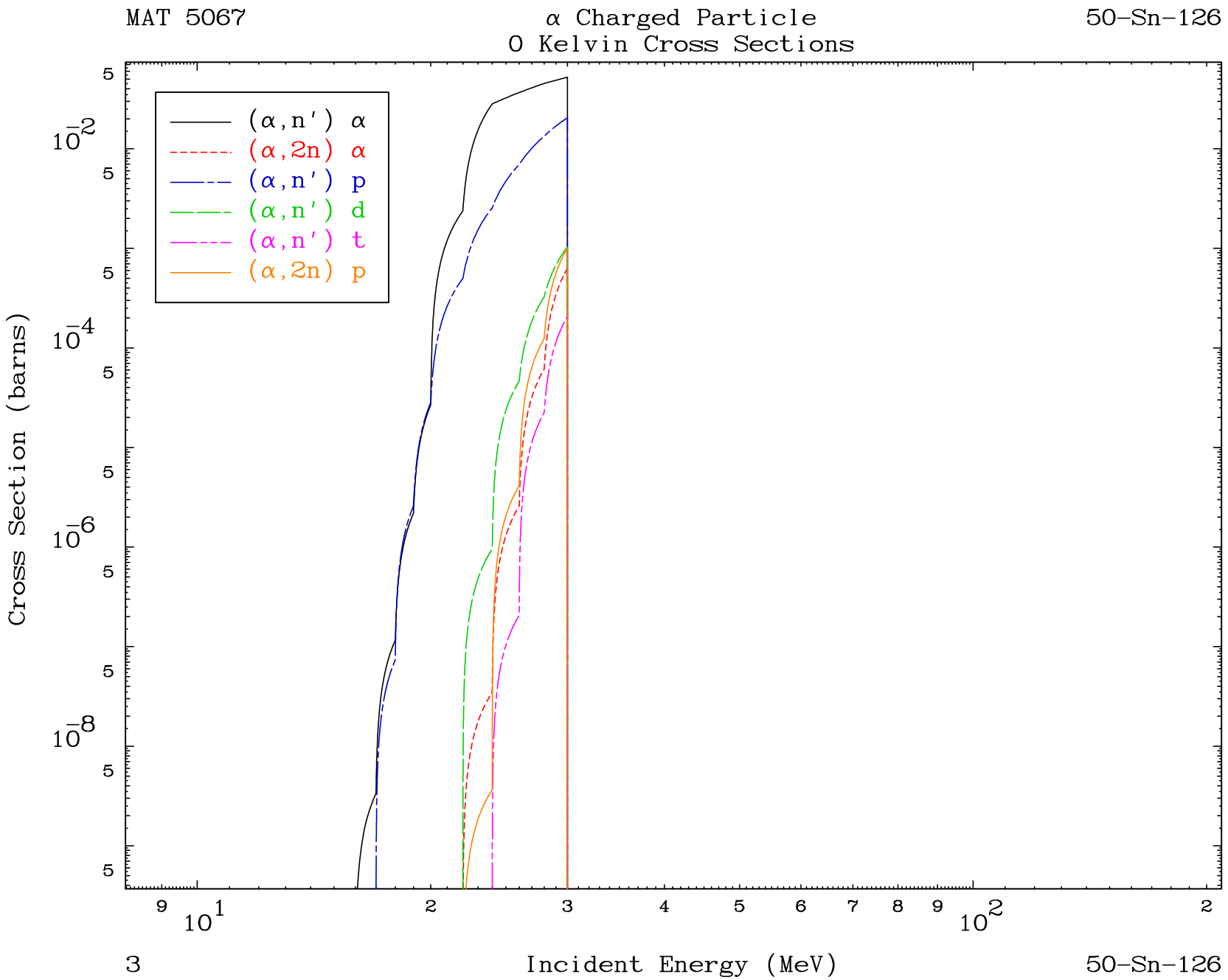
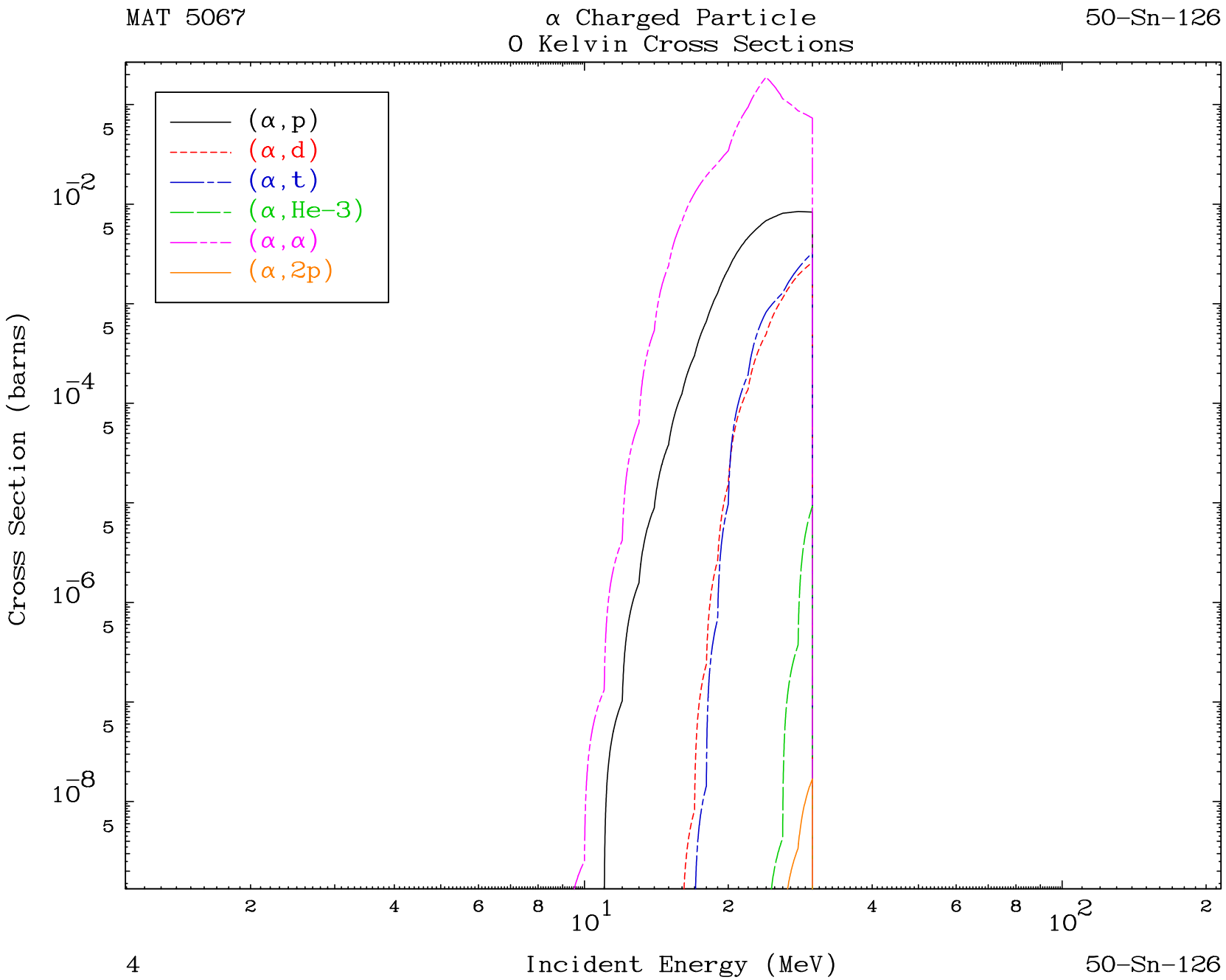
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

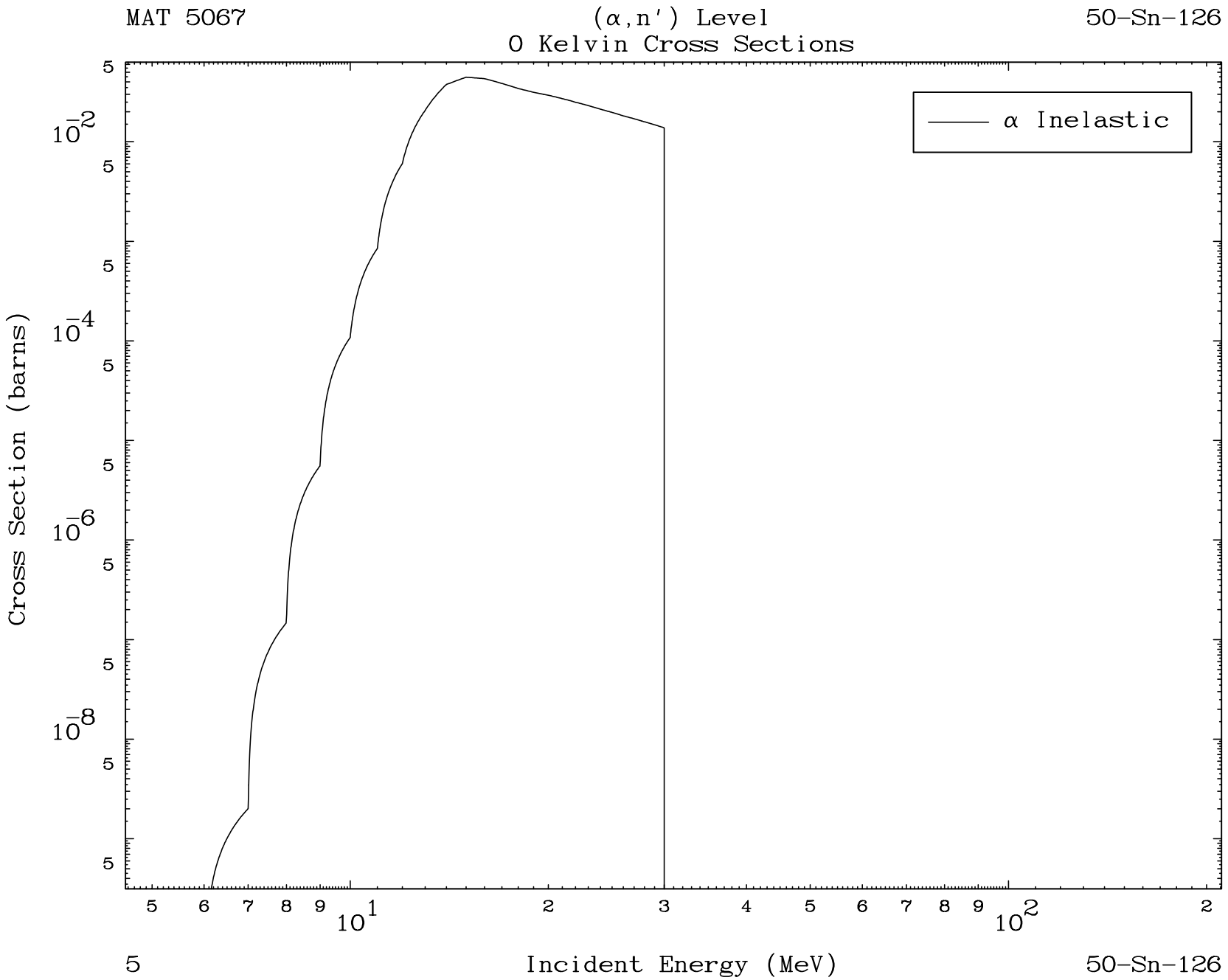
Press Mouse Button to Start

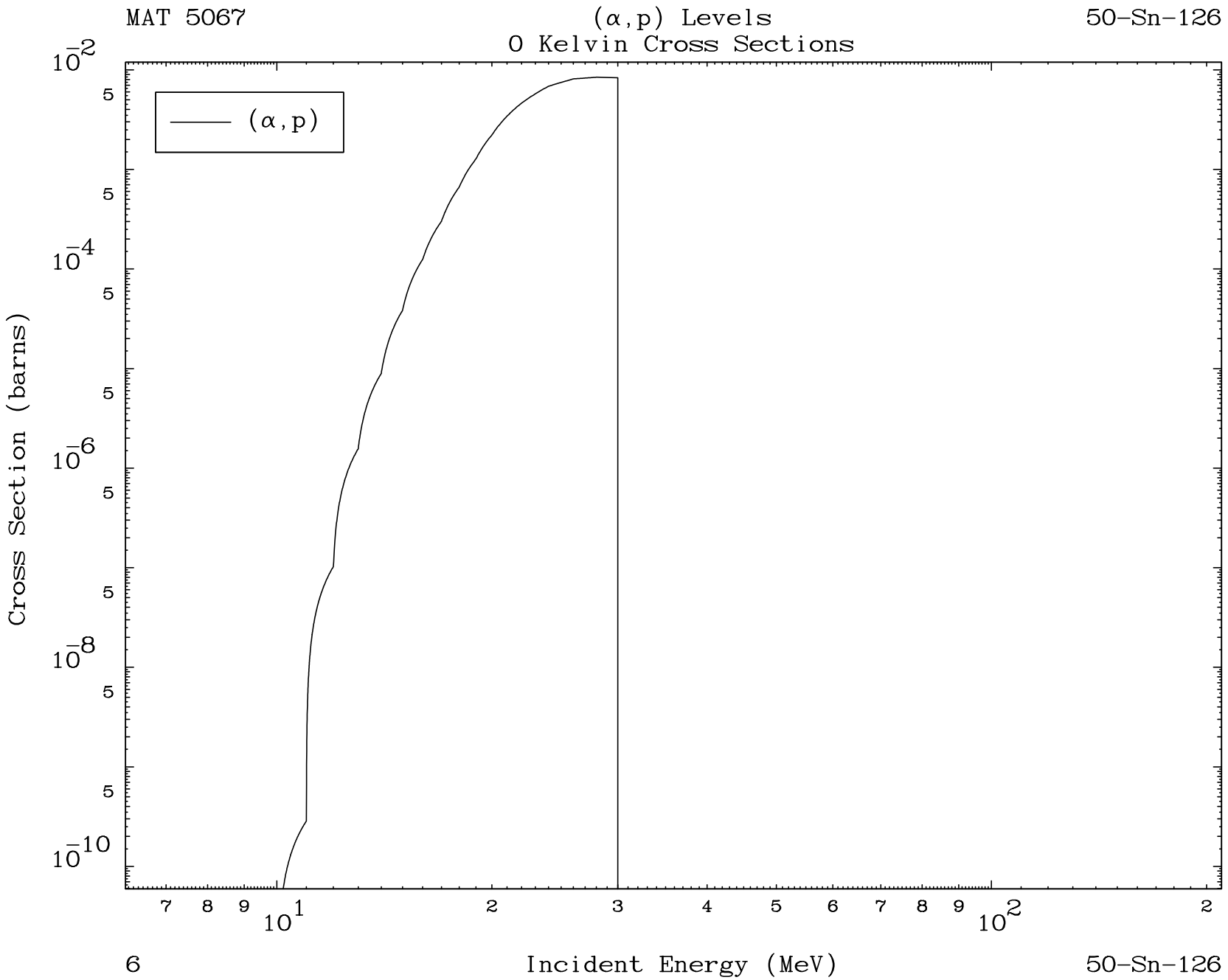

MAT 5067
α Major
50-Sn-126
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-126
1

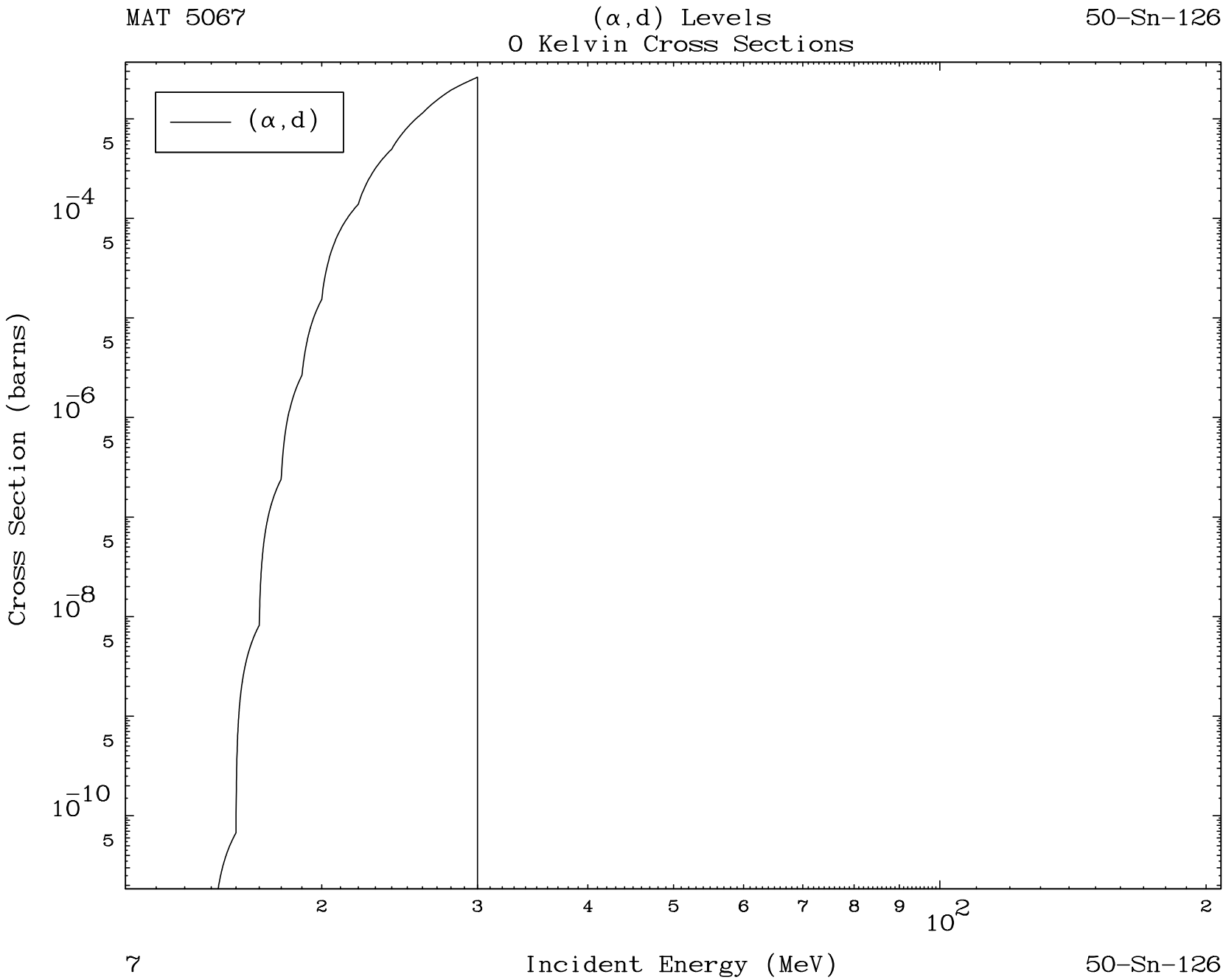

MAT 5067
α Neutron Production
0 Kelvin Cross Sections
50-Sn-126
Cross Section (barns)
Incident Energy (MeV)
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,4n)
(α,2n) p

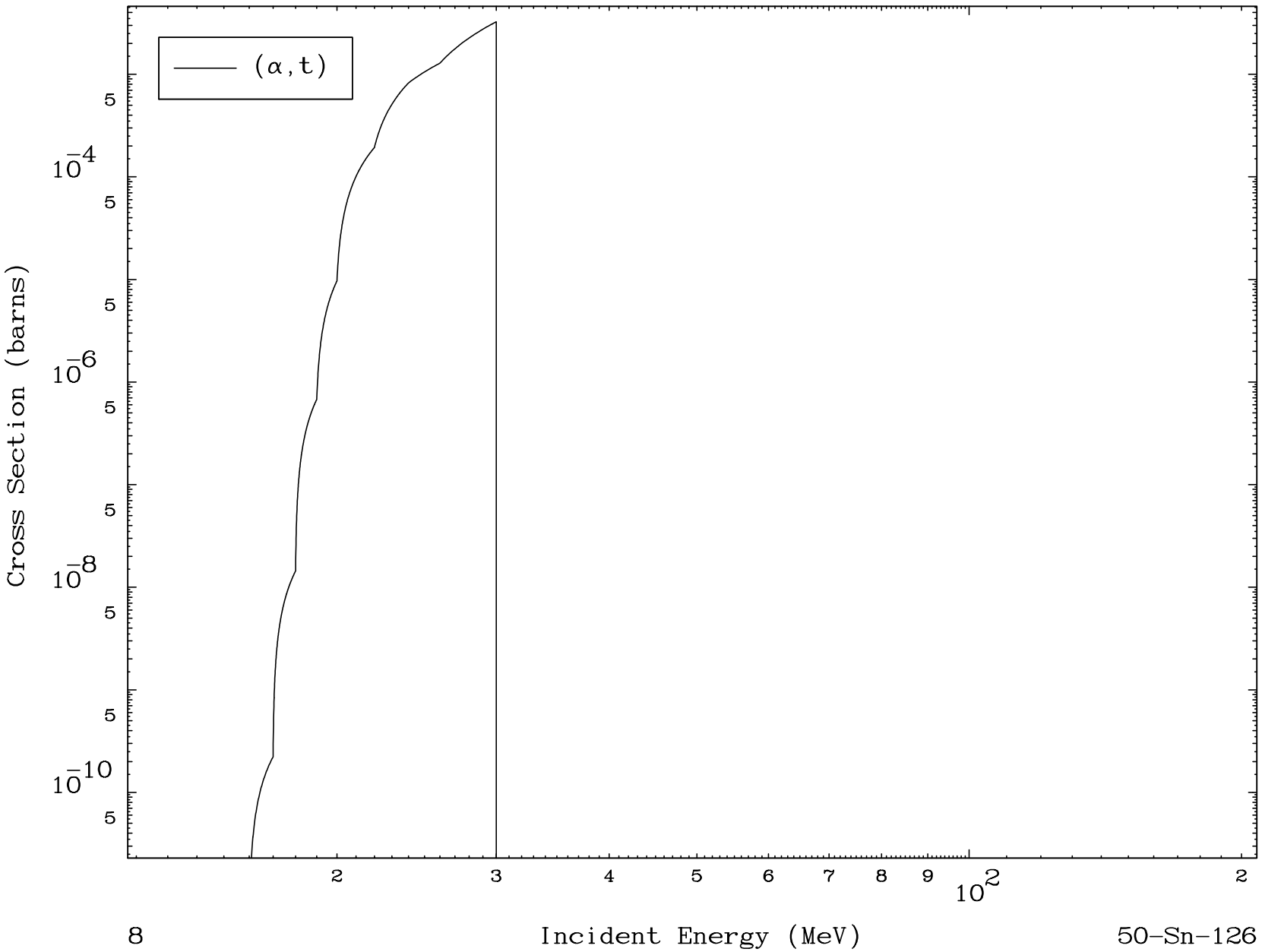

MAT 5067
α Charged Particle
0 Kelvin Cross Sections
50-Sn-126
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
50-Sn-126
3


MAT 5067
α Charged Particle
0 Kelvin Cross Sections
50-Sn-126
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
101
102
Incident Energy (MeV)
4
50-Sn-126

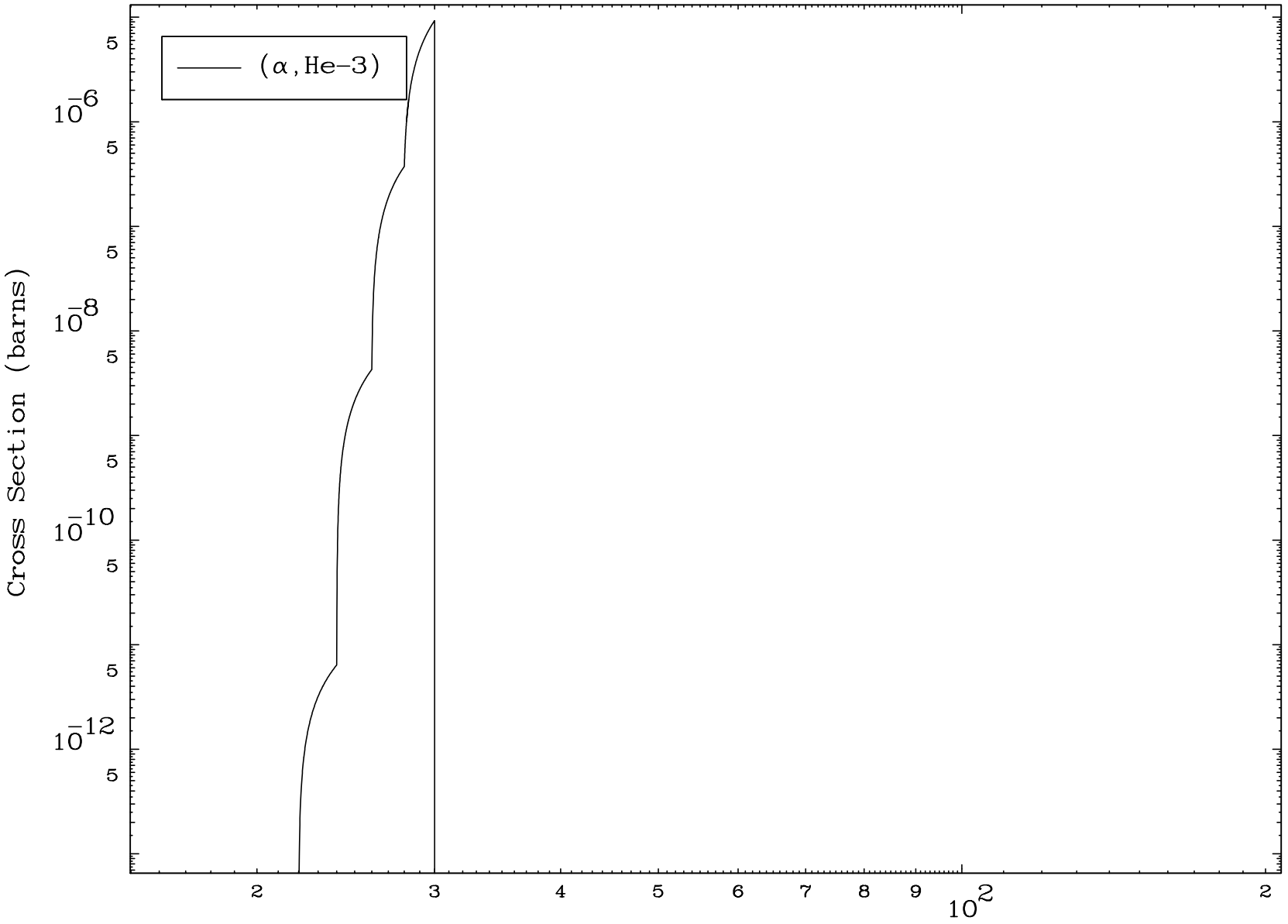

MAT 5067
(α,n') Level
50-Sn-126
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
Incident Energy (MeV)
50-Sn-126

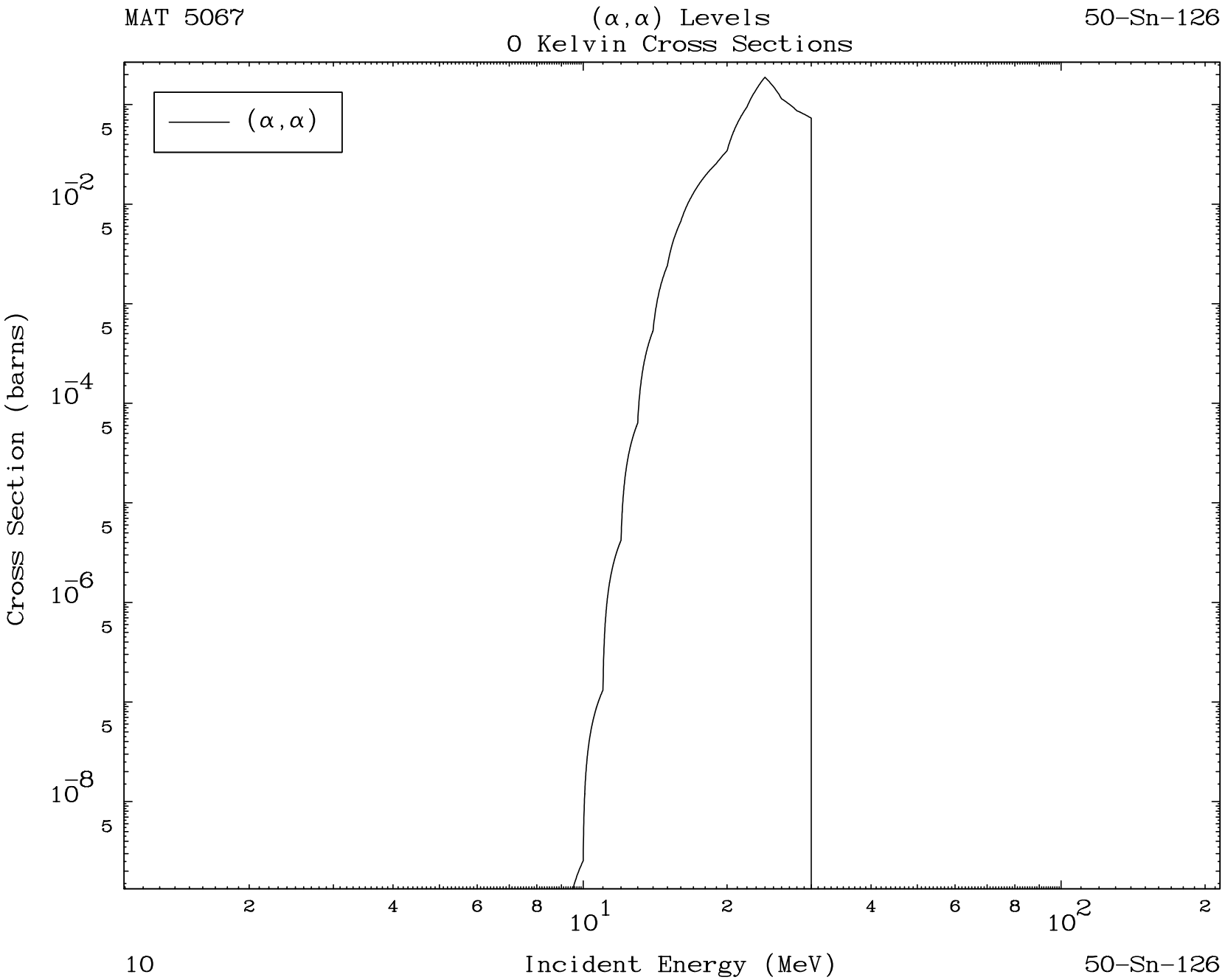

MAT 5067
(α,p) Levels
50-Sn-126
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
Incident Energy (MeV)
6
50-Sn-126

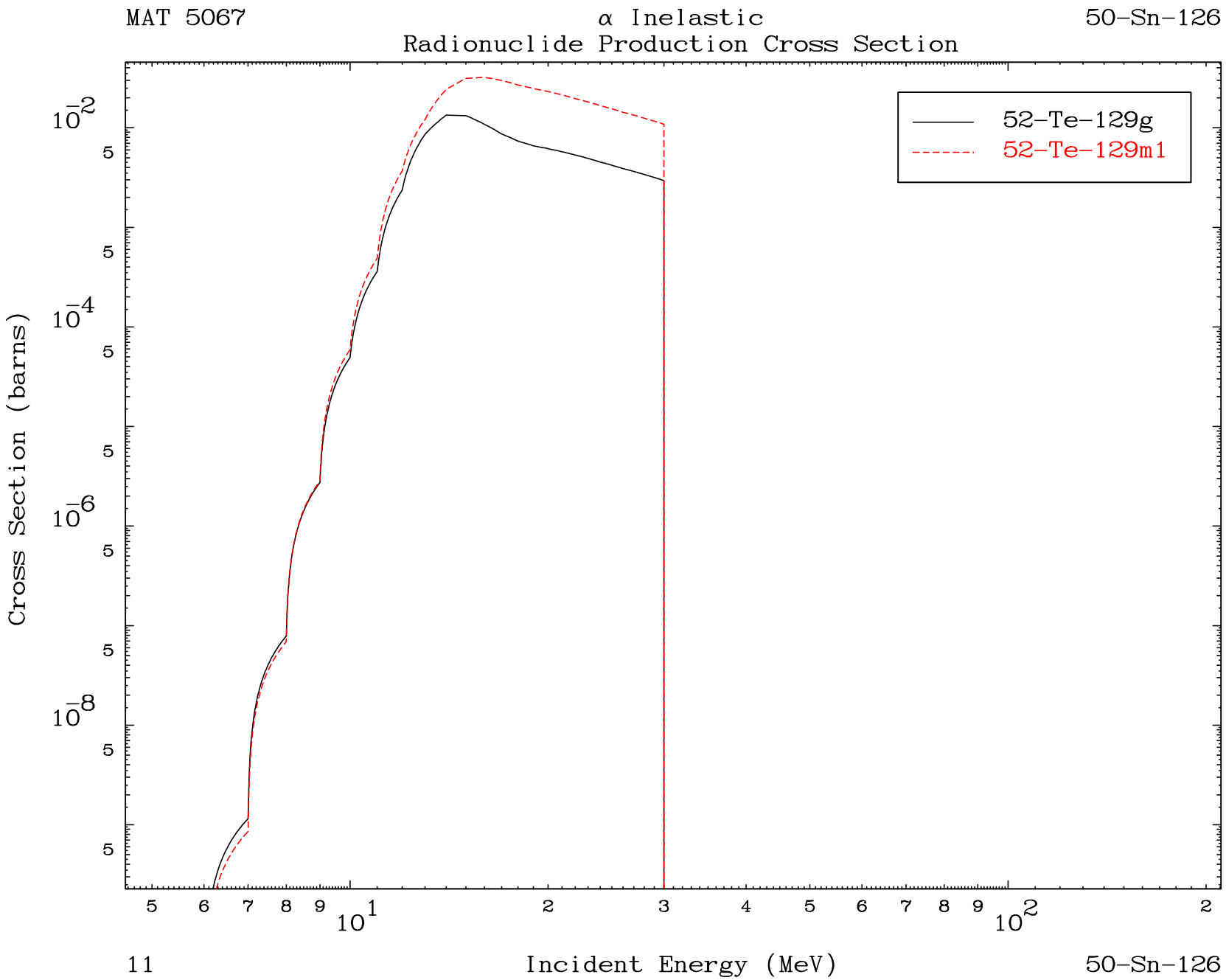

MAT 5067
(α,d) Levels
50-Sn-126
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
50-Sn-126

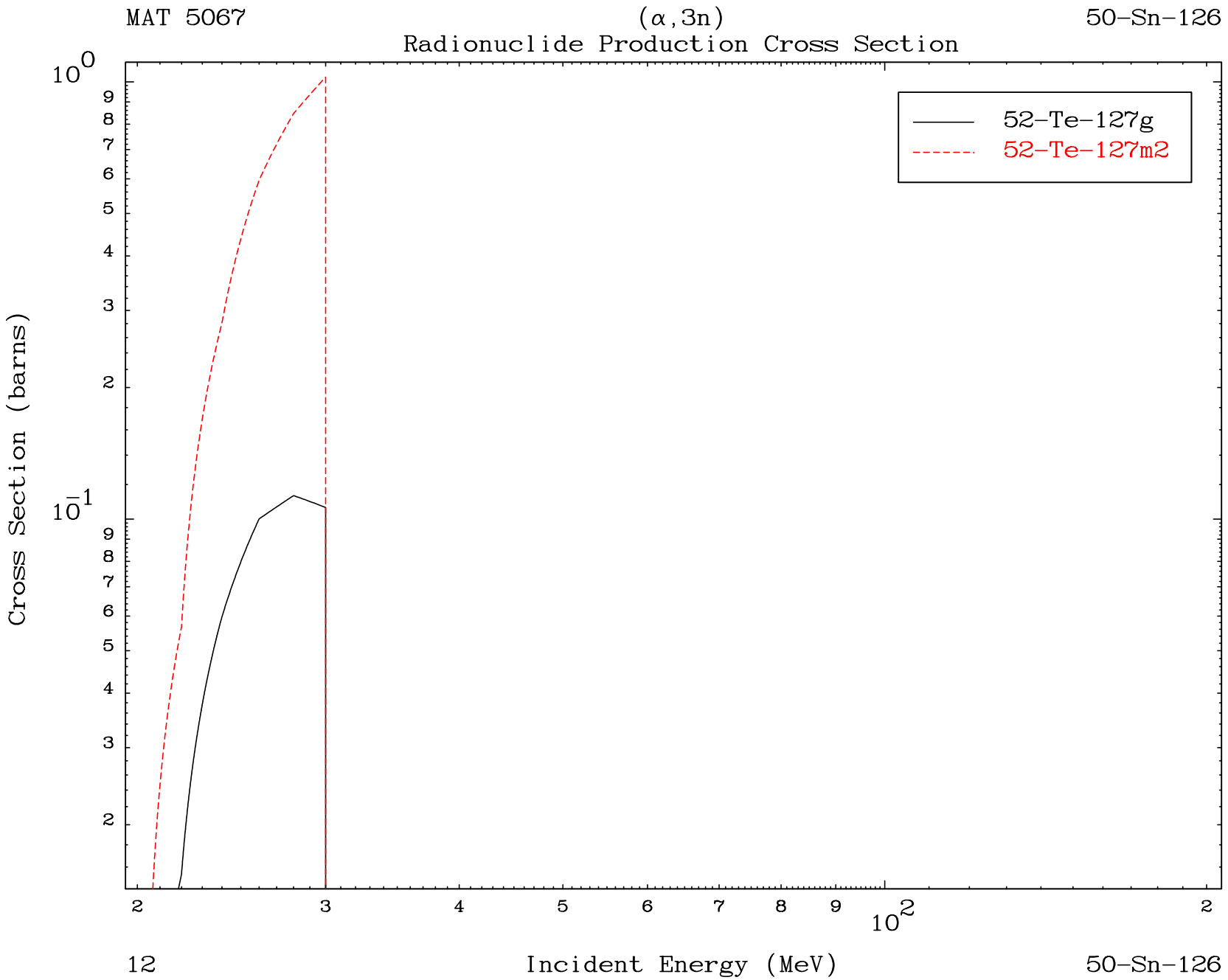

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

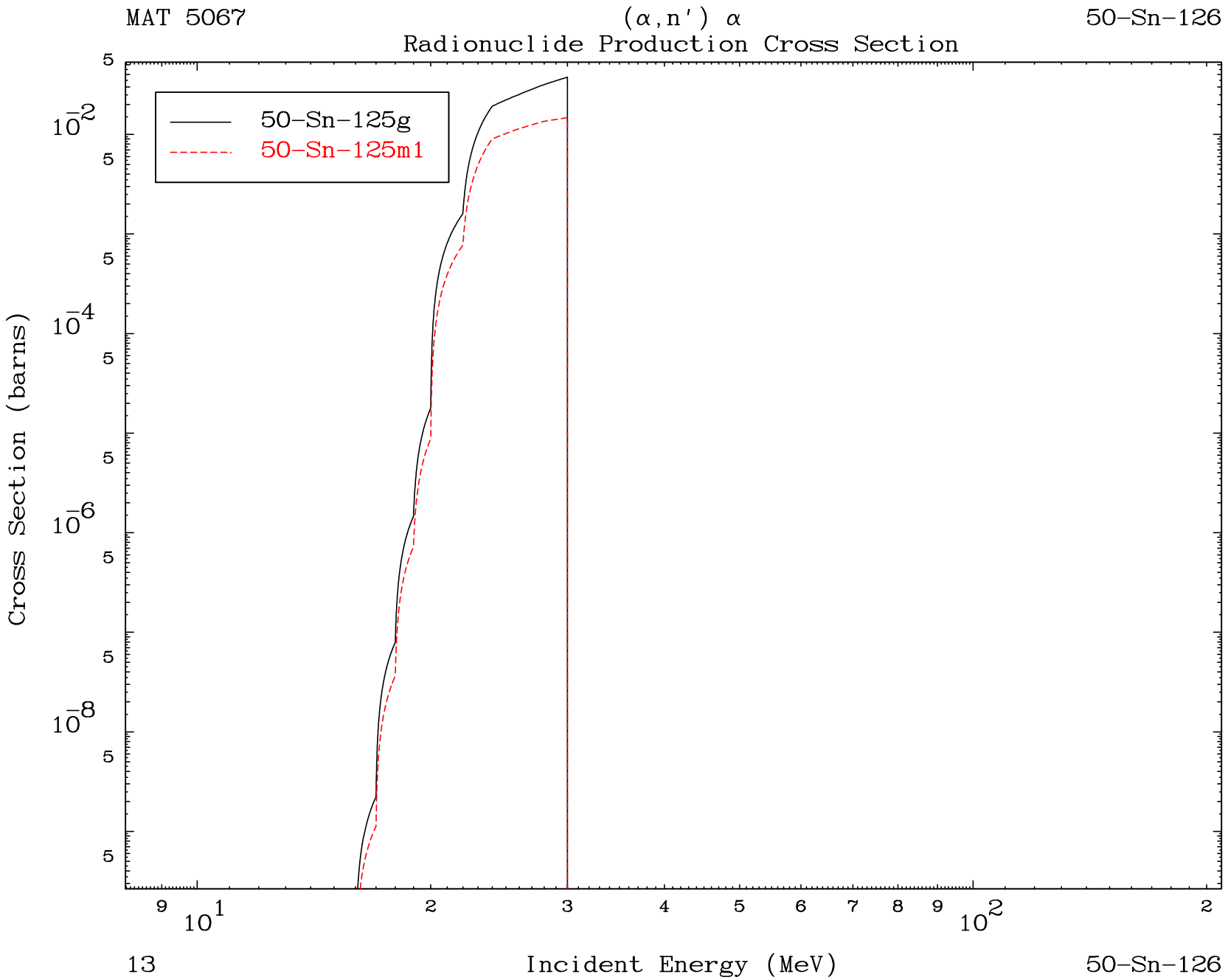
0 Kelvin Cross Sections

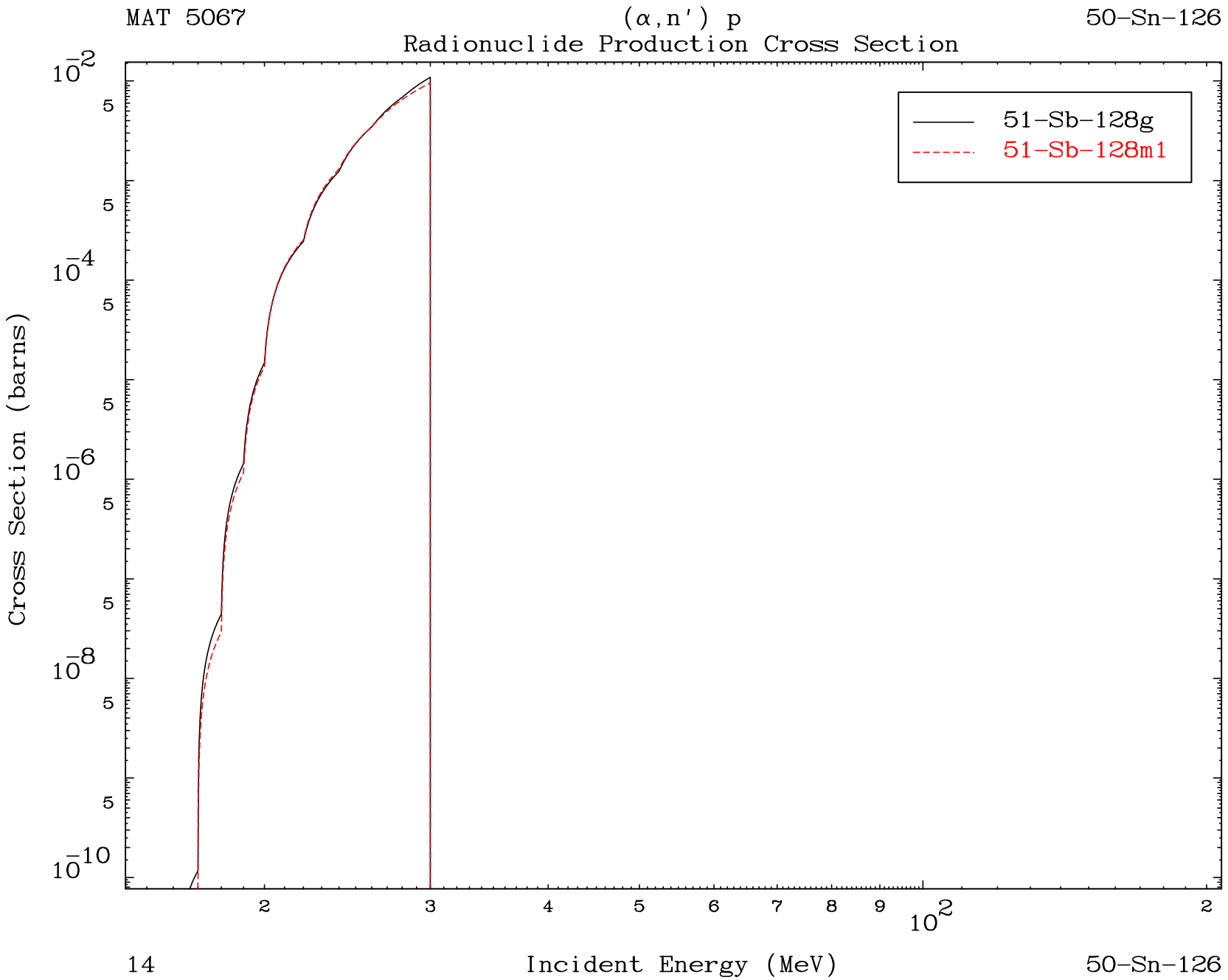


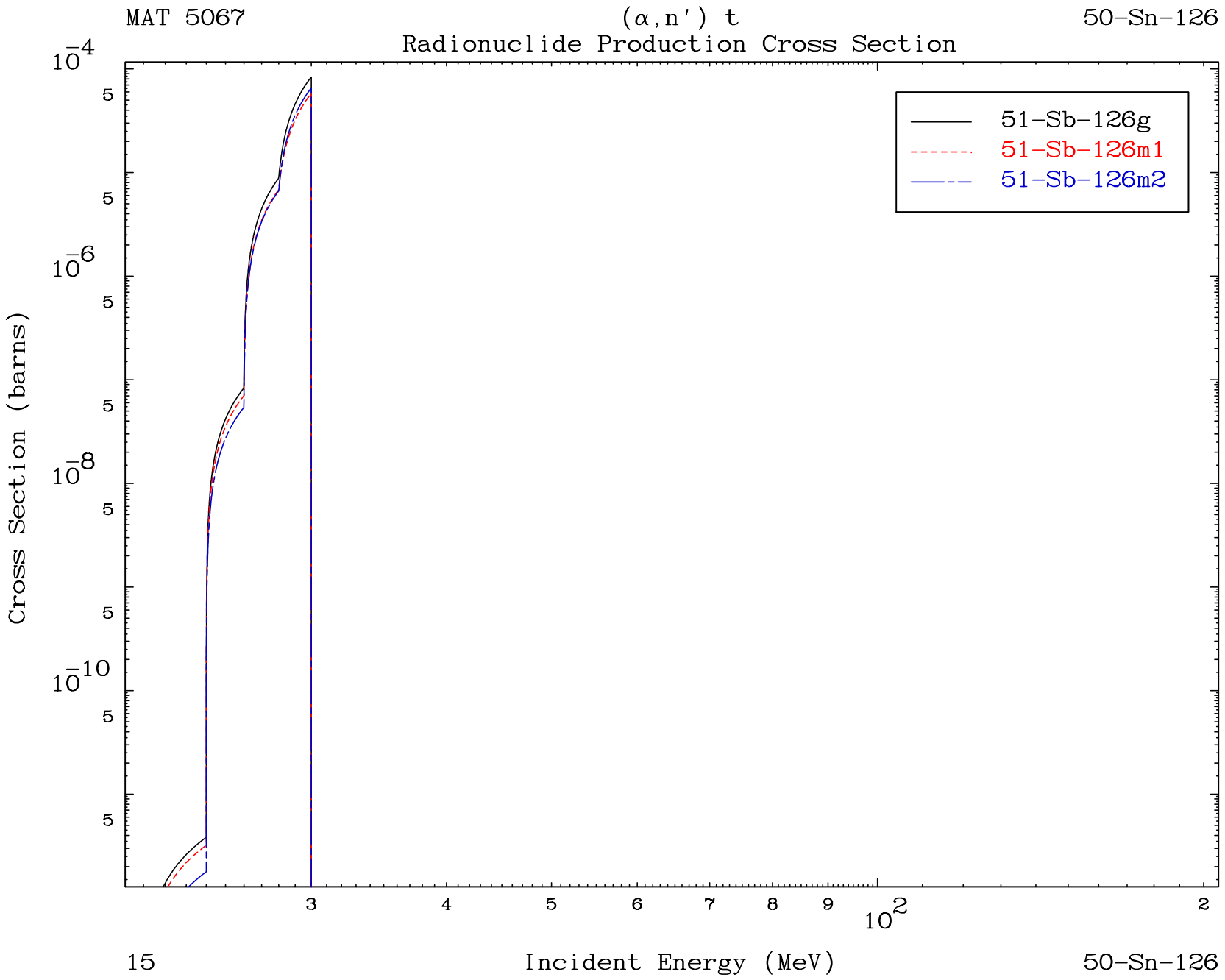

MAT 5067
(α,α) Levels
50-Sn-126
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^1
10^2
10
Incident Energy (MeV)
50-Sn-126

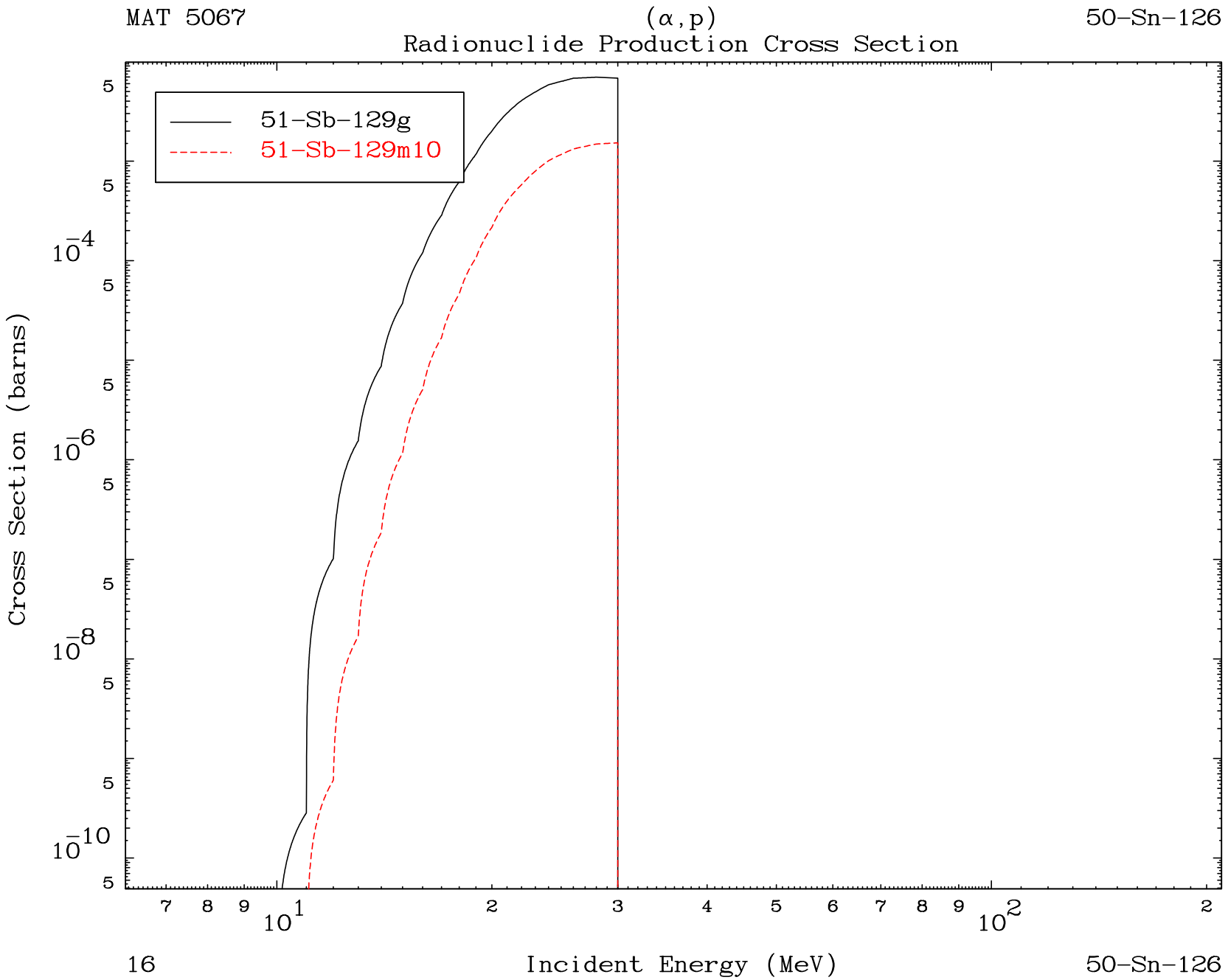

MAT 5067
α Inelastic
50-Sn-126
Radionuclide Production Cross Section
52-Te-129g
52-Te-129m1
Cross Section (barns)
Incident Energy (MeV)
11
50-Sn-126

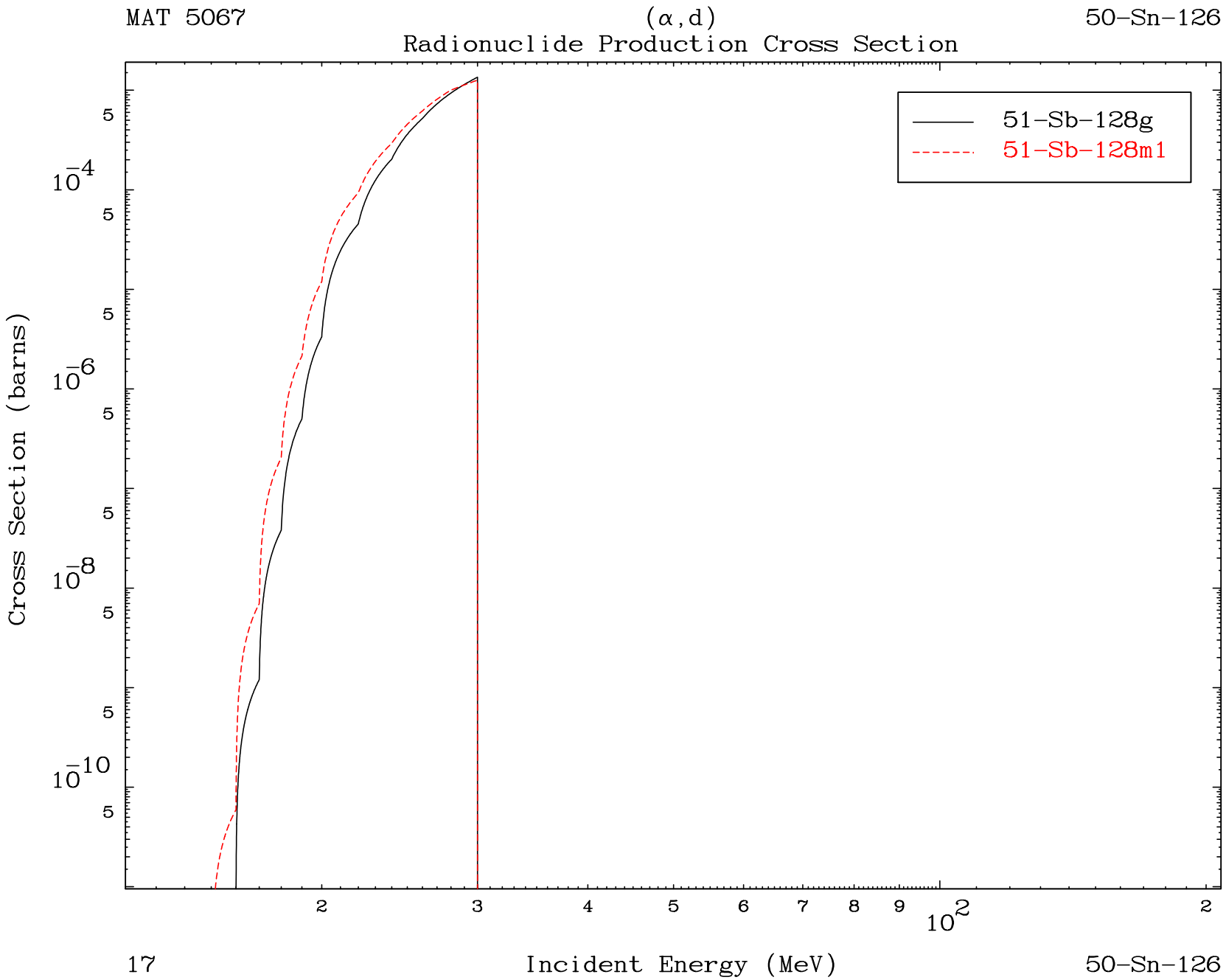

MAT 5067
(α,3n)
50-Sn-126
Radionuclide Production Cross Section
52-Te-127g
52-Te-127m2
Cross Section (barns)
Incident Energy (MeV)
12
50-Sn-126

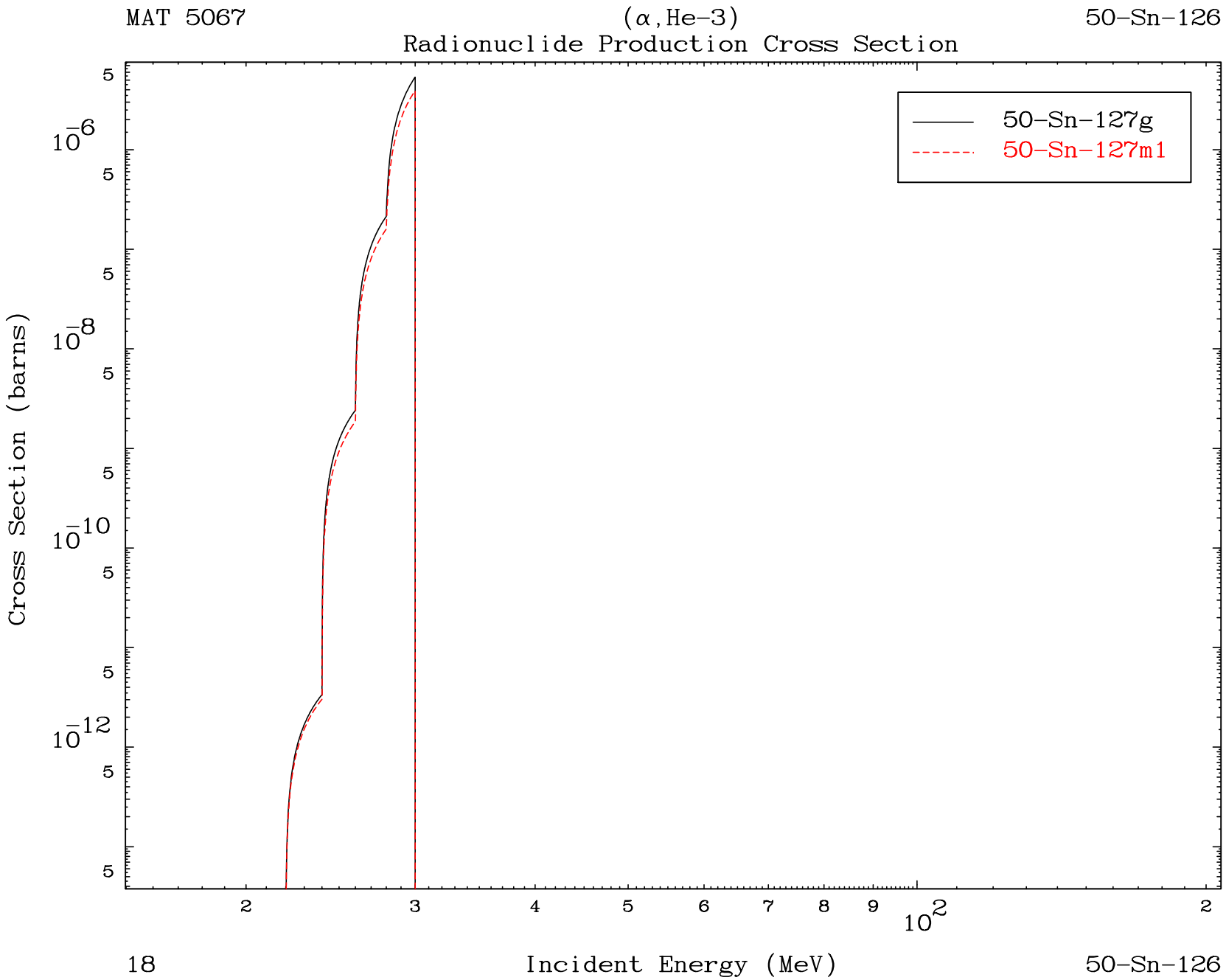

MAT 5067
(α,n') α
50-Sn-126
Radionuclide Production Cross Section
50-Sn-125g
50-Sn-125m1
Cross Section (barns)
Incident Energy (MeV)
13
50-Sn-126

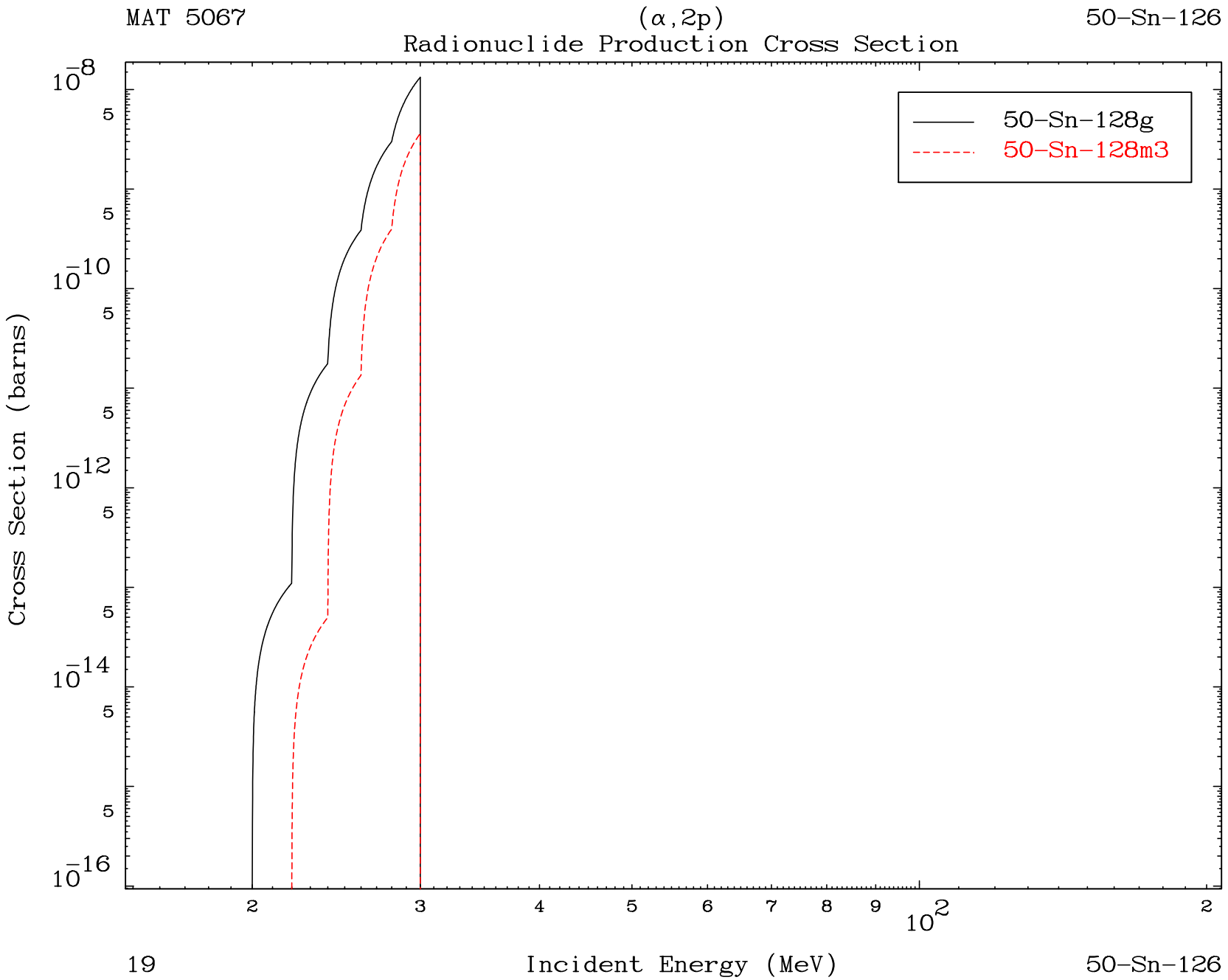

MAT 5067
(α,n') p
50-Sn-126
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
Incident Energy (MeV)
14
50-Sn-126


MAT 5067
(α,n') t
50-Sn-126
Radionuclide Production Cross Section
51-Sb-126g
51-Sb-126m1
51-Sb-126m2
Cross Section (barns)
Incident Energy (MeV)
15
50-Sn-126


MAT 5067
(α,p)
50-Sn-126
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m10
Cross Section (barns)
Incident Energy (MeV)
16
50-Sn-126


MAT 5067
(α,d)
50-Sn-126
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
50-Sn-126


MAT 5067
(α,He-3)
50-Sn-126
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
Incident Energy (MeV)
18
50-Sn-126


MAT 5067
(α,2p)
50-Sn-126
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
10-8
5
10-10
5
10-12
5
10-14
5
10-16
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
50-Sn-126