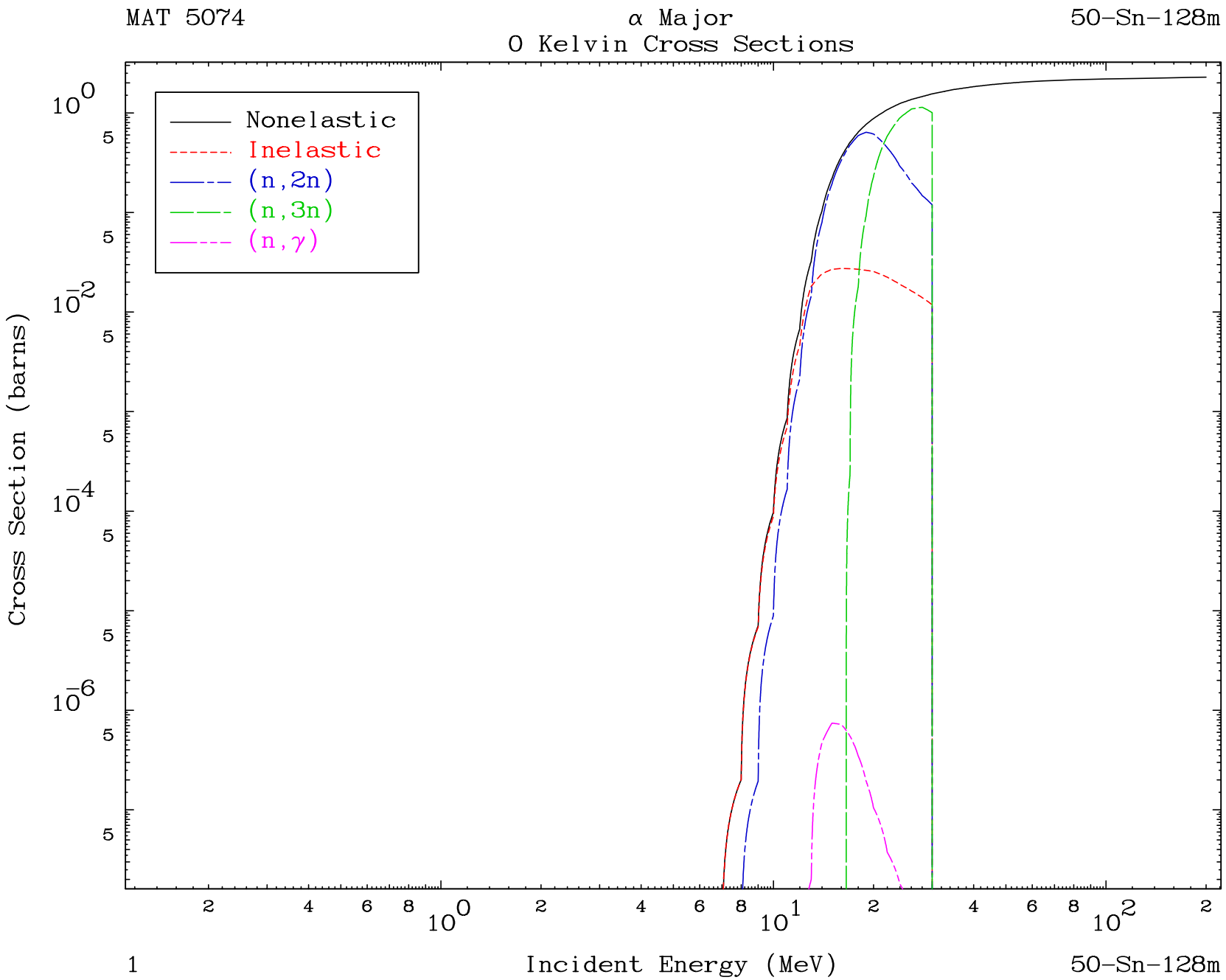
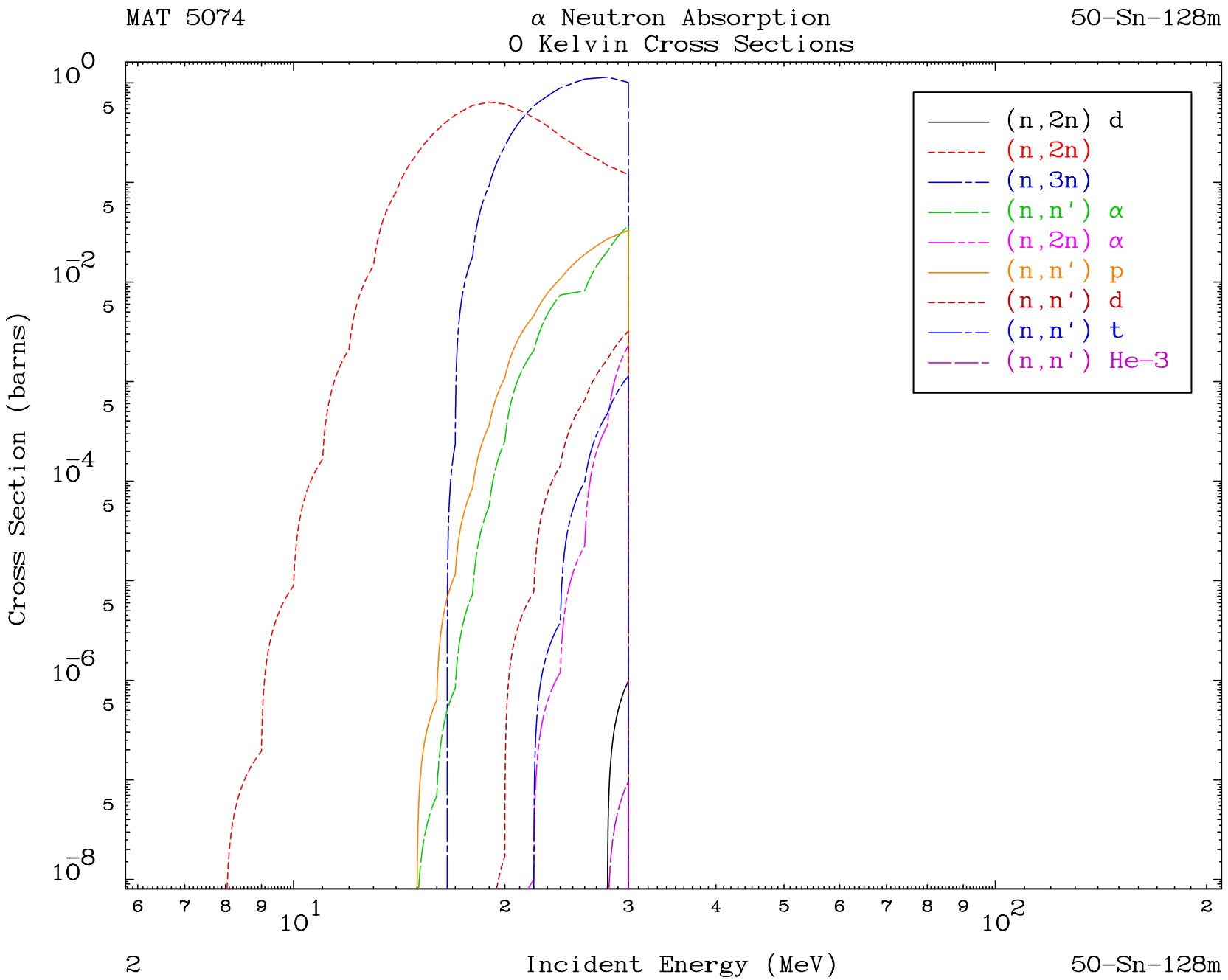
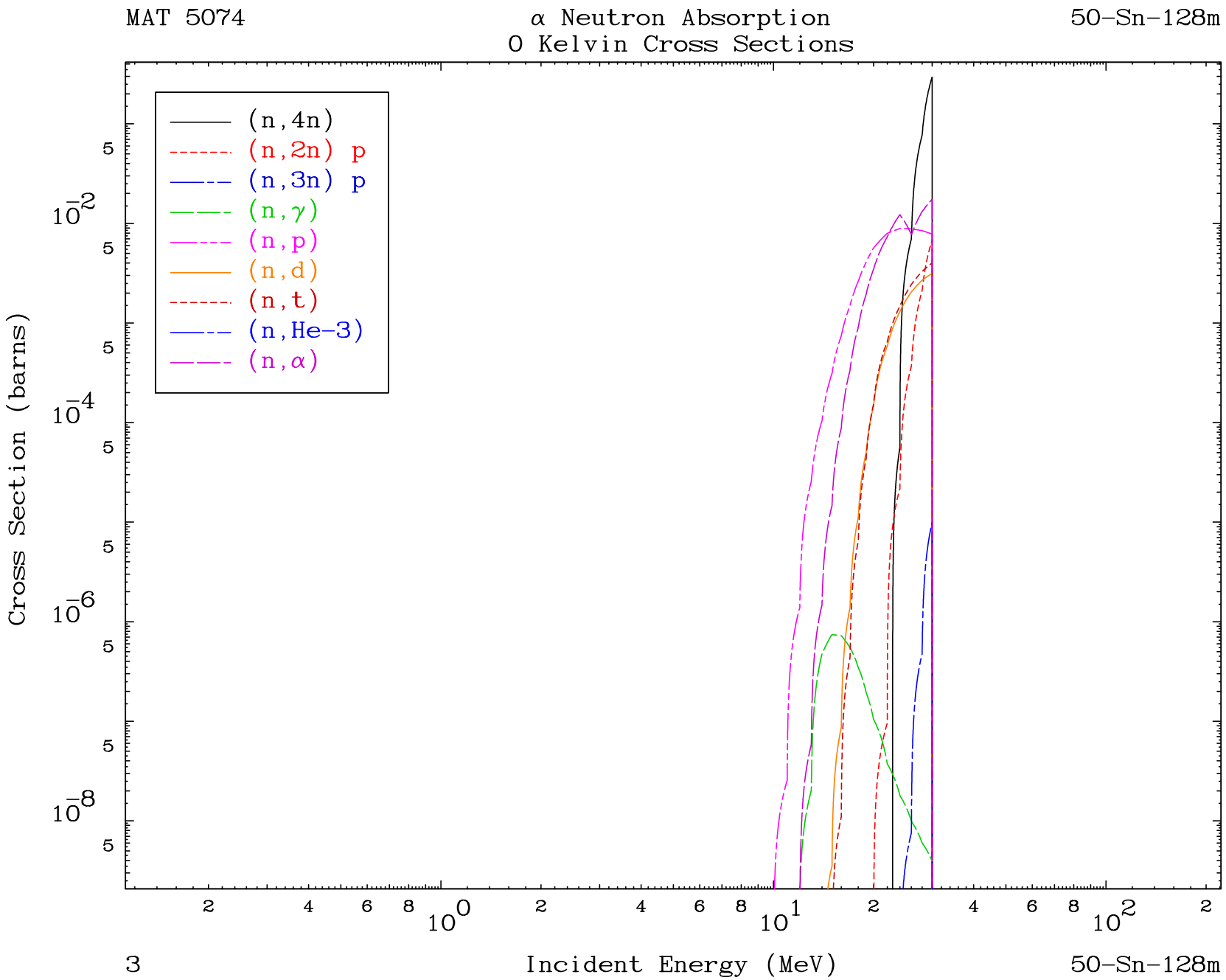
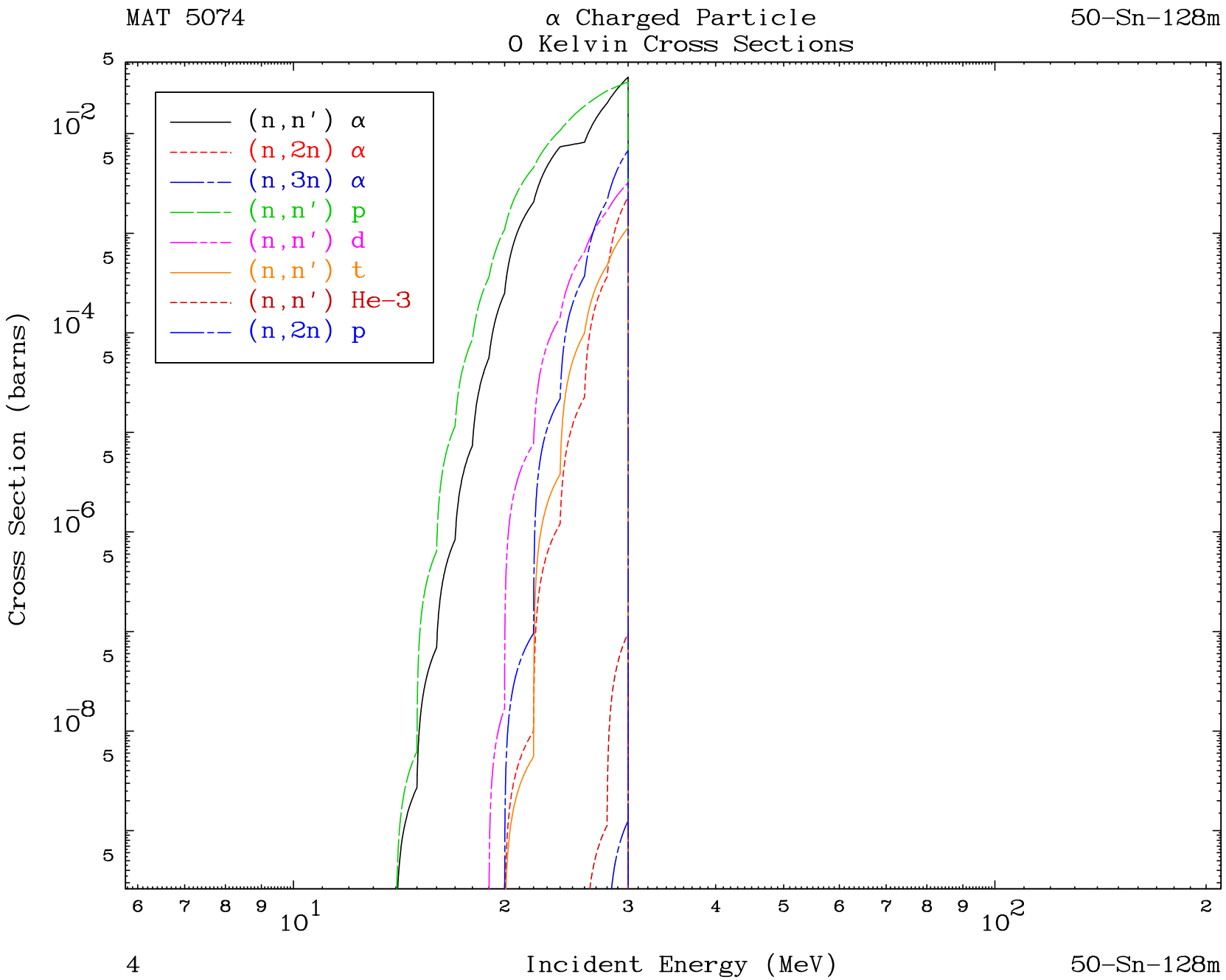
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

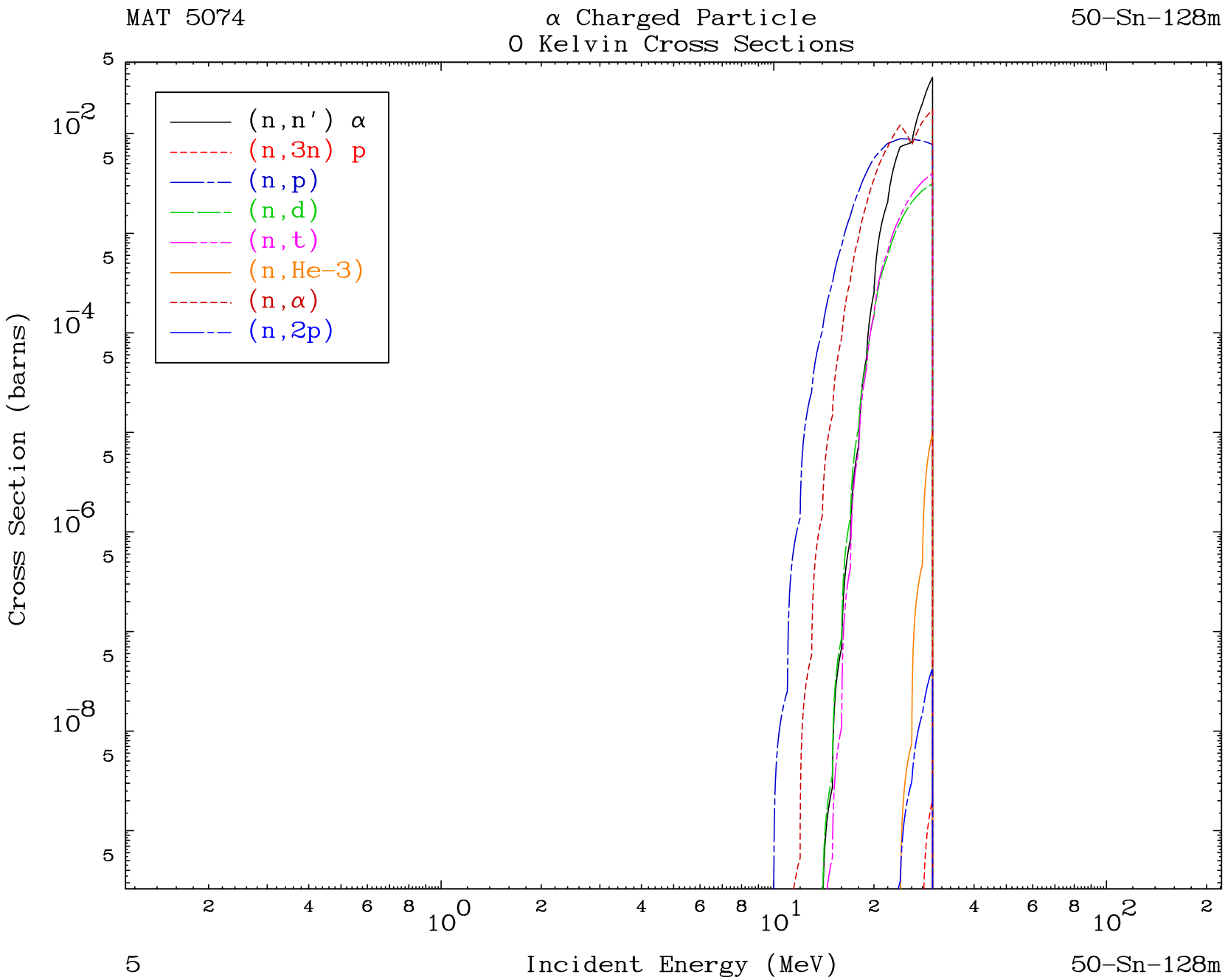
Press Mouse Button to Start

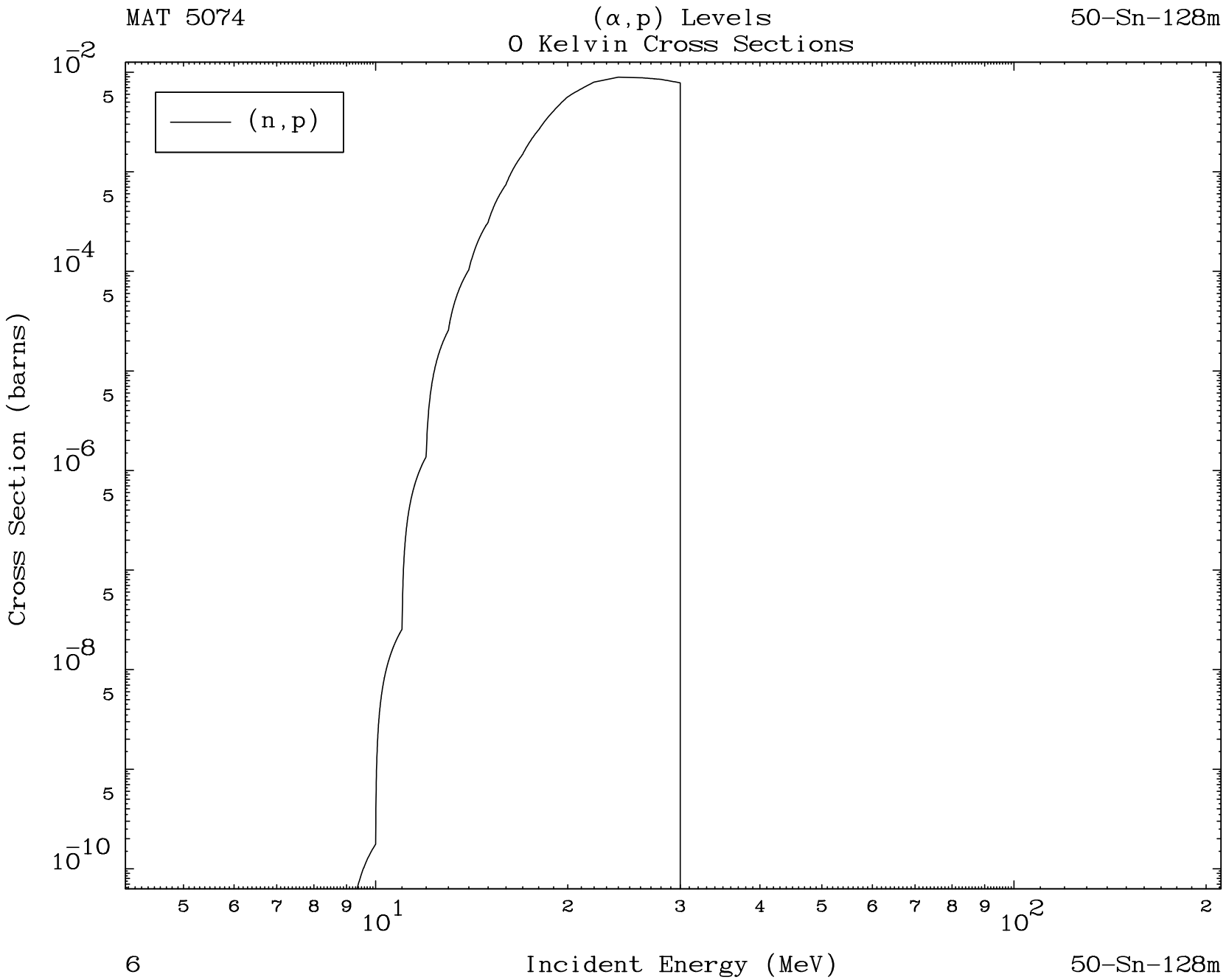

MAT 5074
α Major
50-Sn-128m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-128m
1

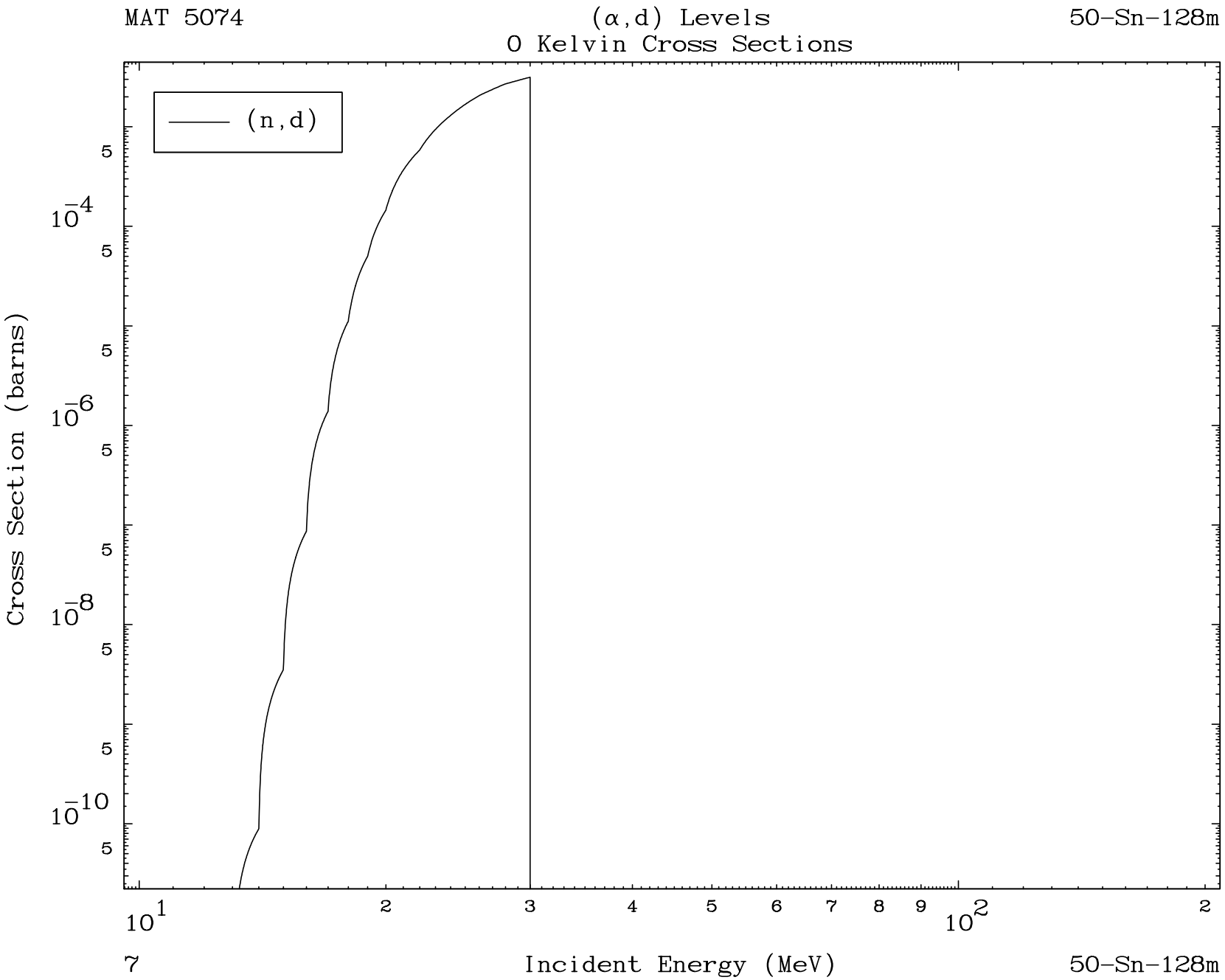

MAT 5074
α Neutron Absorption
0 Kelvin Cross Sections
50-Sn-128m
Cross Section (barns)
Incident Energy (MeV)
50-Sn-128m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3

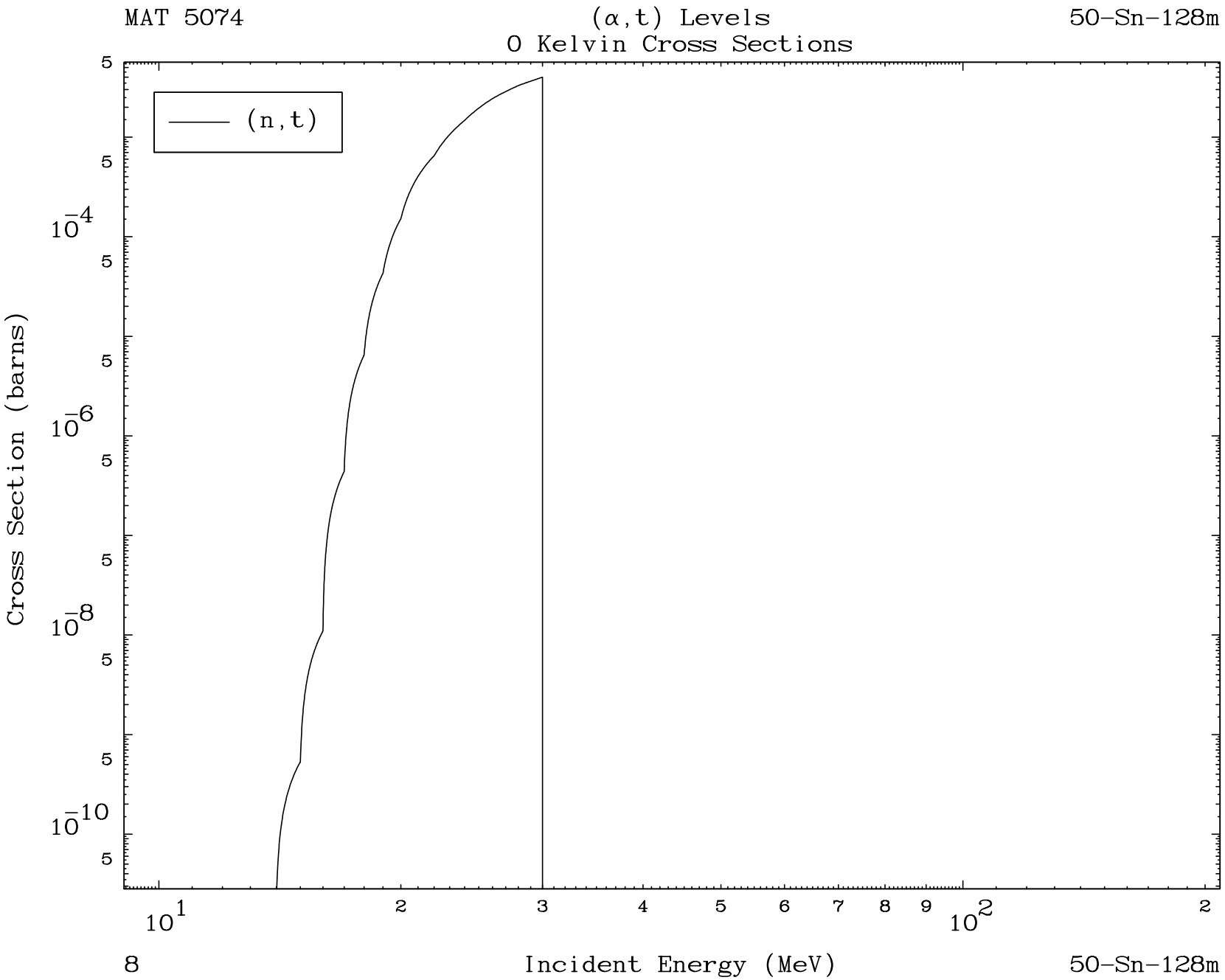

MAT 5074
α Neutron Absorption
0 Kelvin Cross Sections
50-Sn-128m
(n,4n)
(n,2n) p
(n,3n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
3
50-Sn-128m

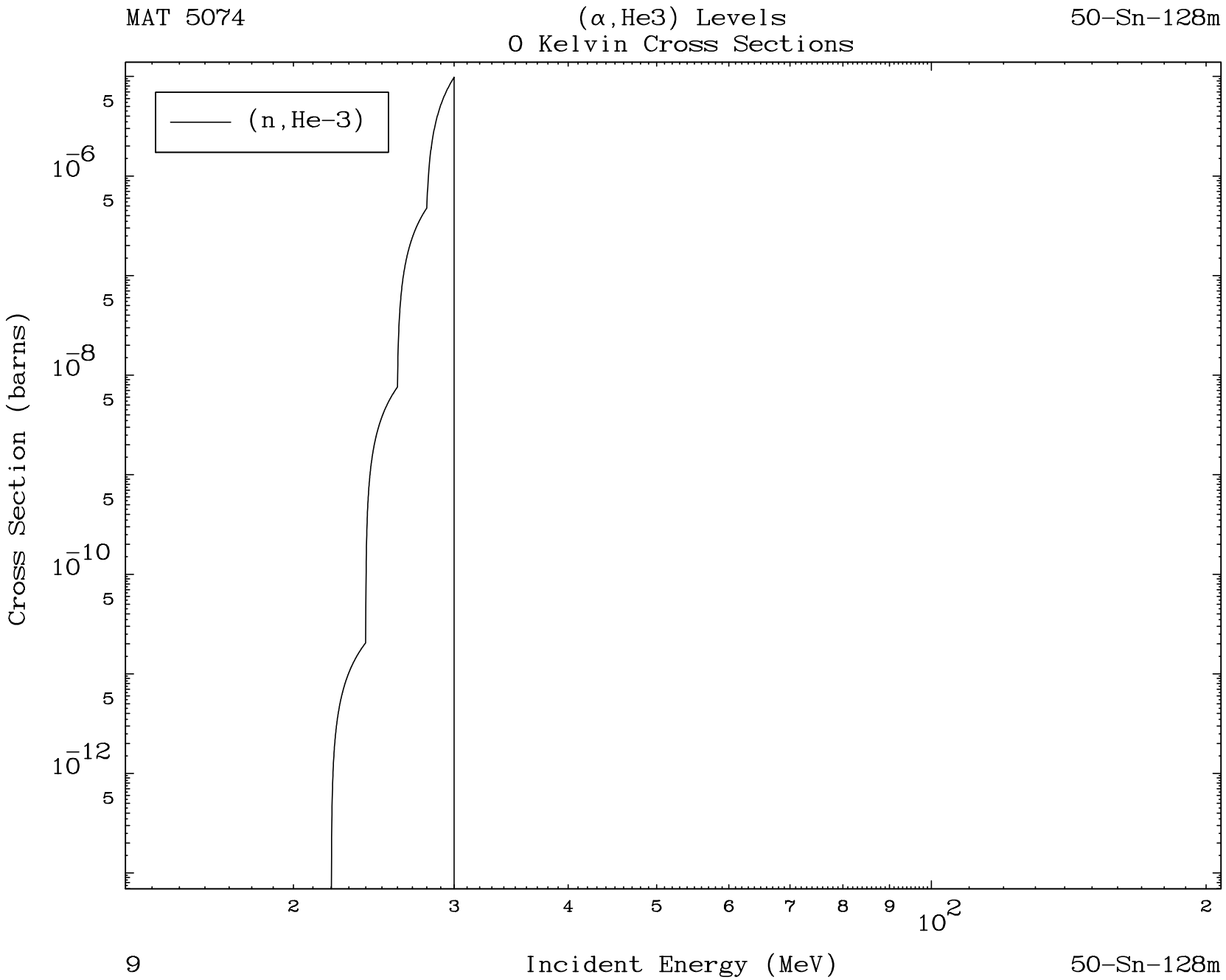

MAT 5074
α Charged Particle
0 Kelvin Cross Sections
50-Sn-128m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
4
50-Sn-128m

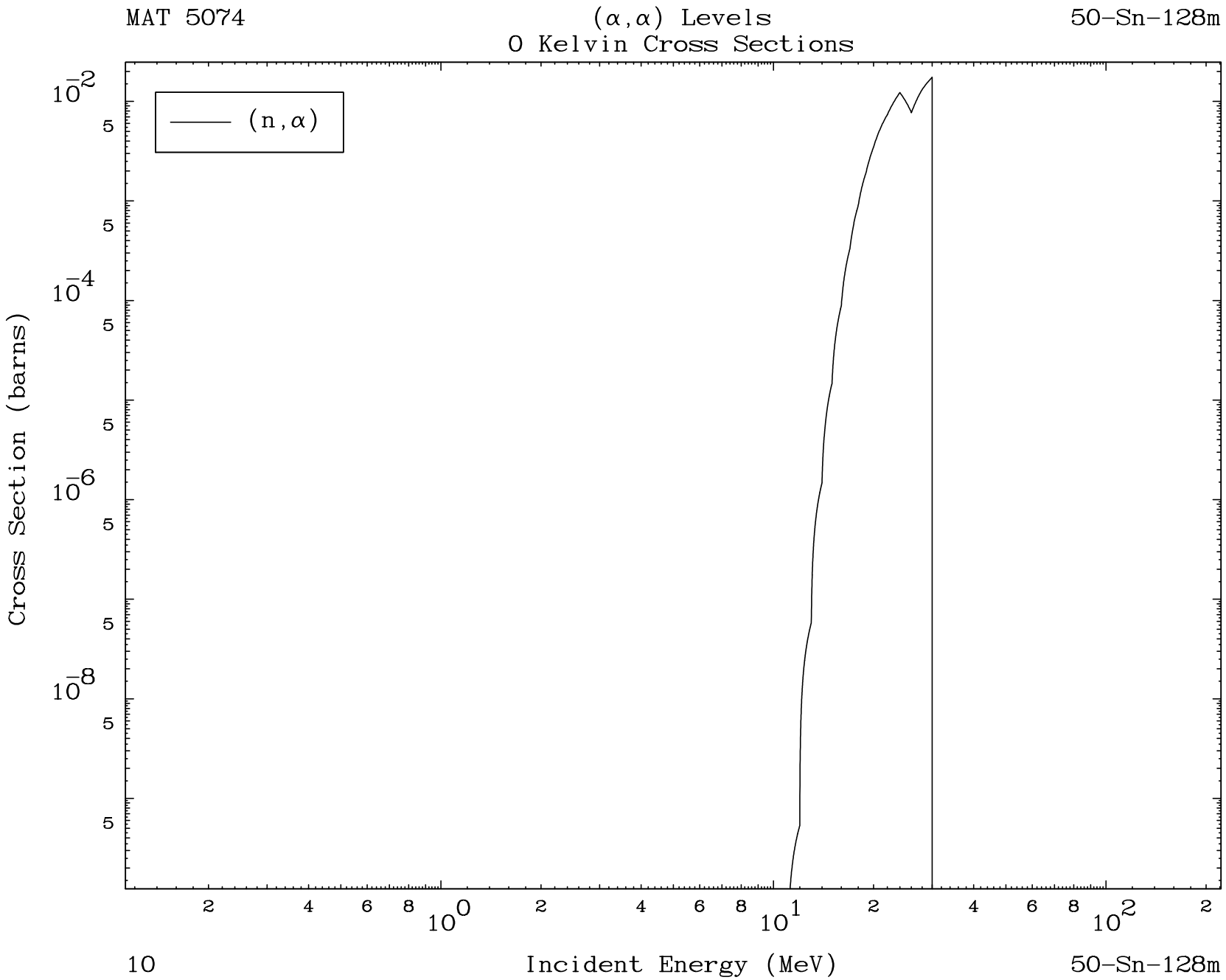

MAT 5074
α Charged Particle
0 Kelvin Cross Sections
50-Sn-128m
(n,n') α
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-128m

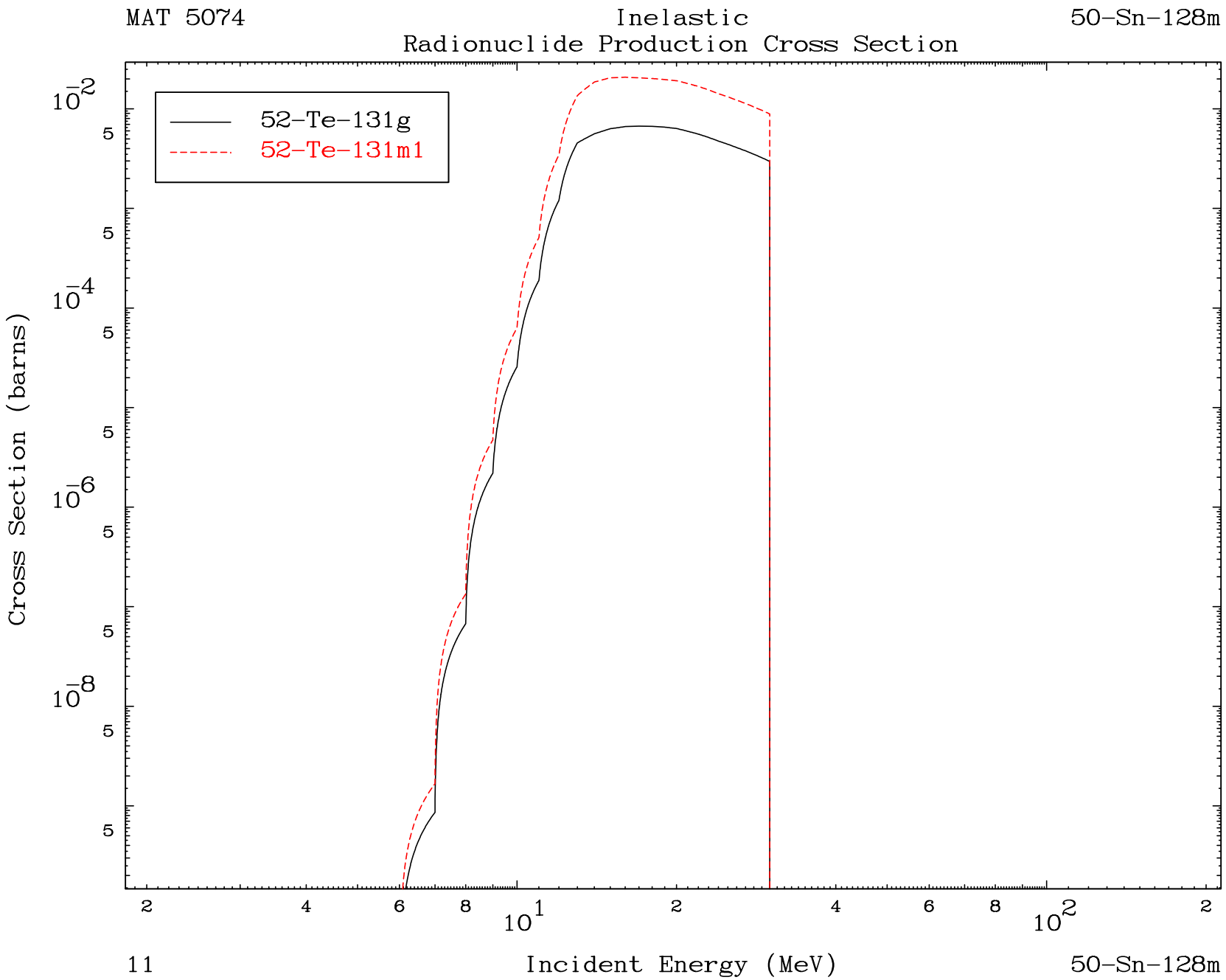

MAT 5074
(α,p) Levels
50-Sn-128m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
50-Sn-128m

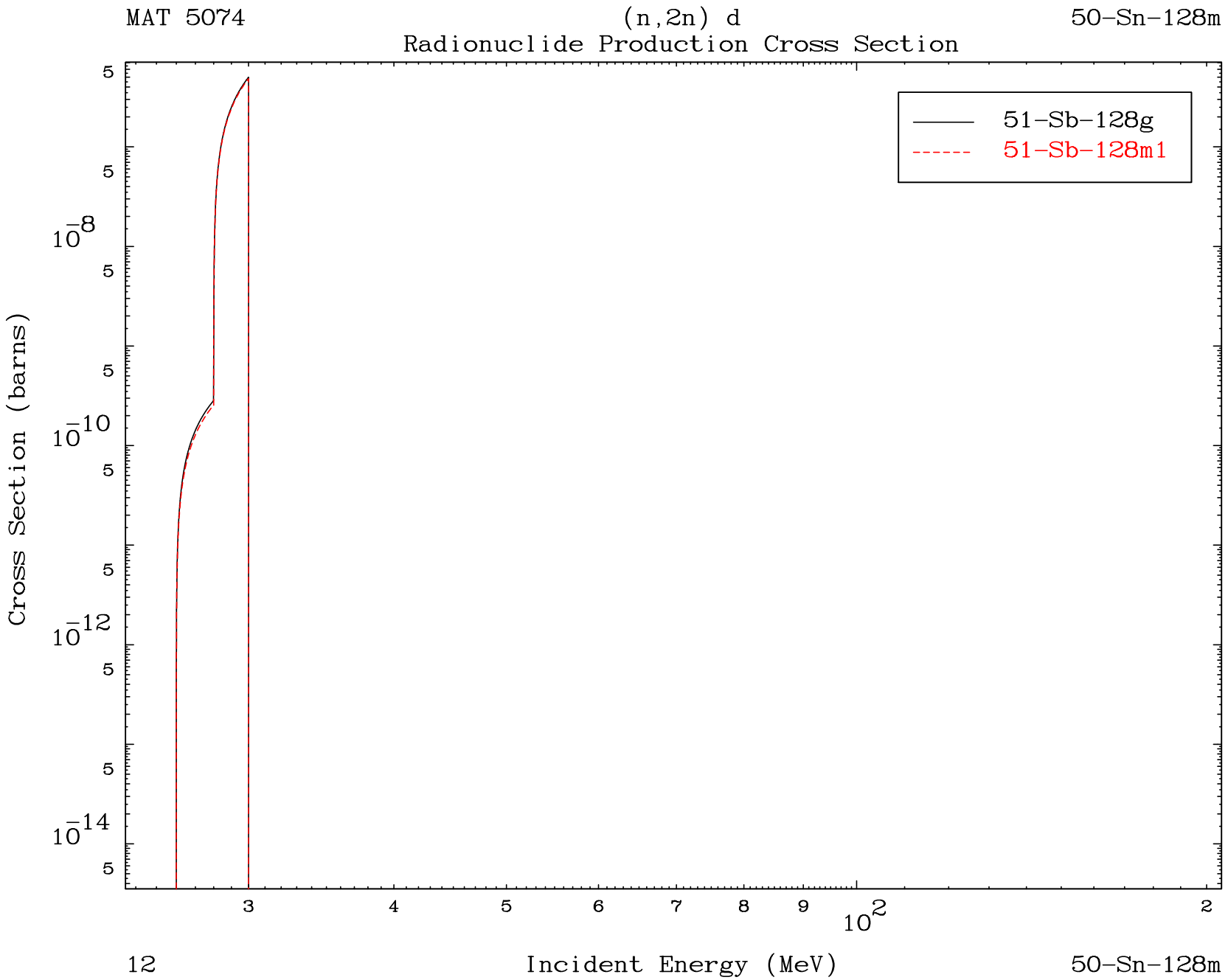

MAT 5074
(α,d) Levels
50-Sn-128m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
101
102
50-Sn-128m

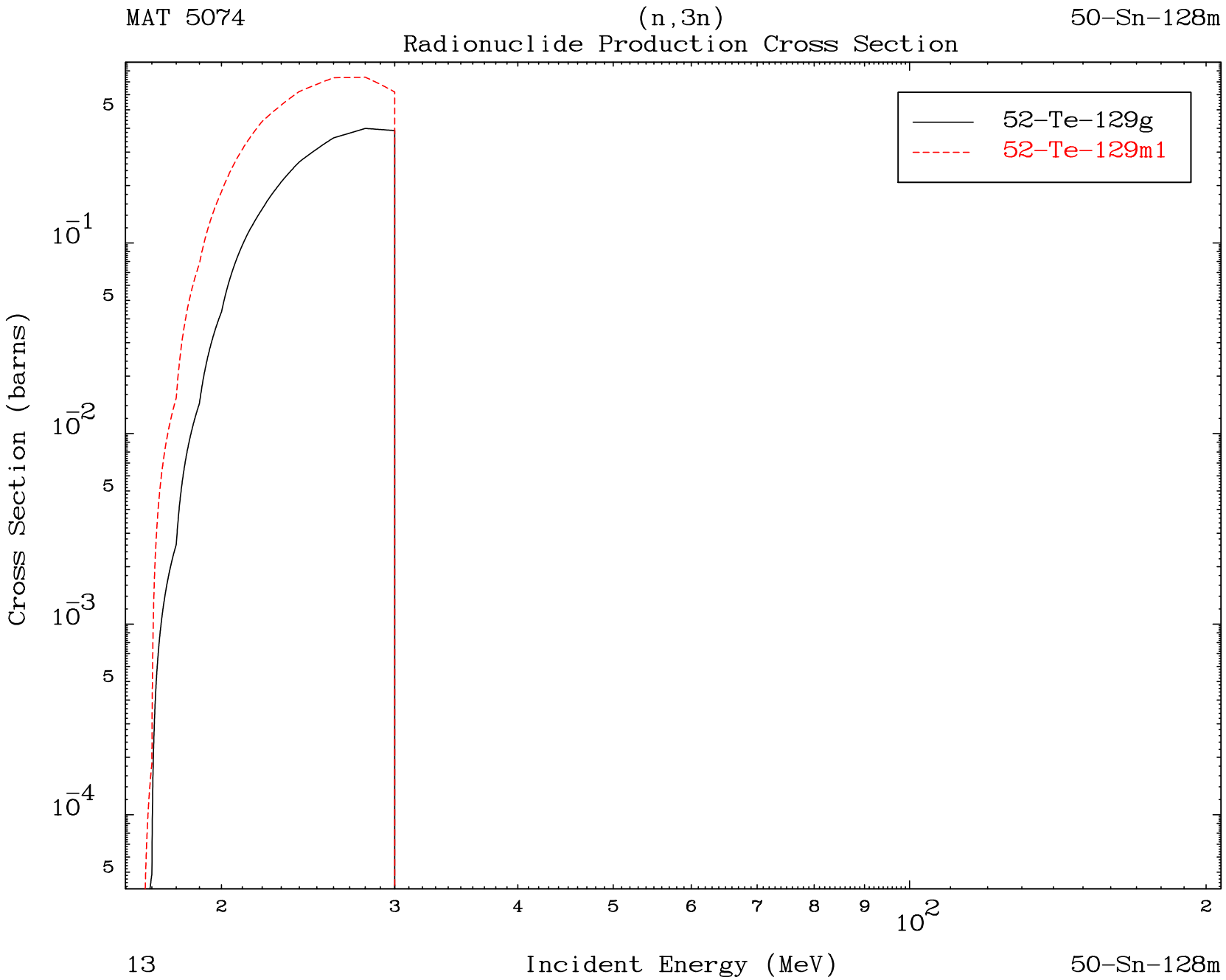

MAT 5074
(α,t) Levels
50-Sn-128m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
8
50-Sn-128m

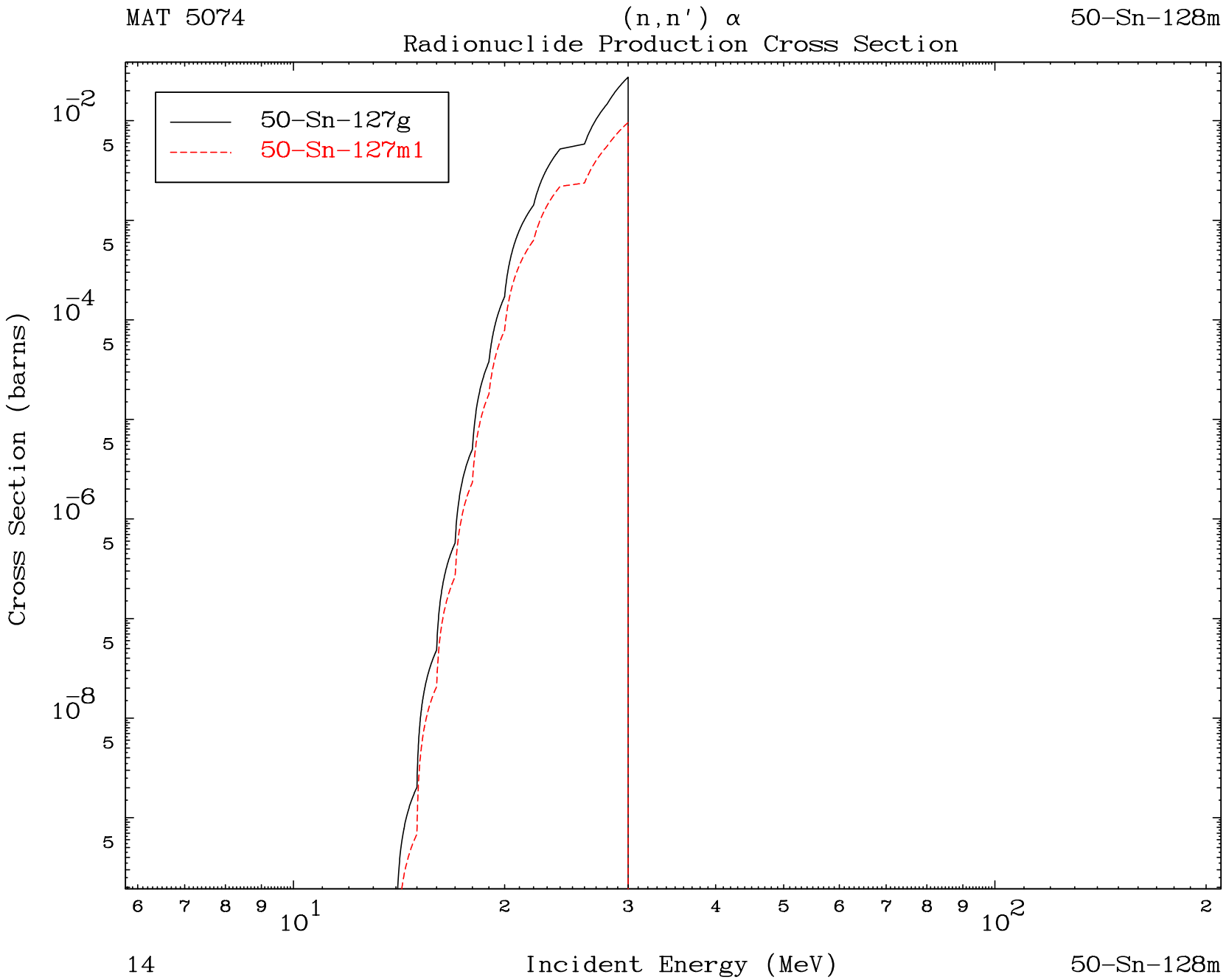

MAT 5074
(α,He3) Levels
50-Sn-128m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10^2
2
9
Incident Energy (MeV)
50-Sn-128m

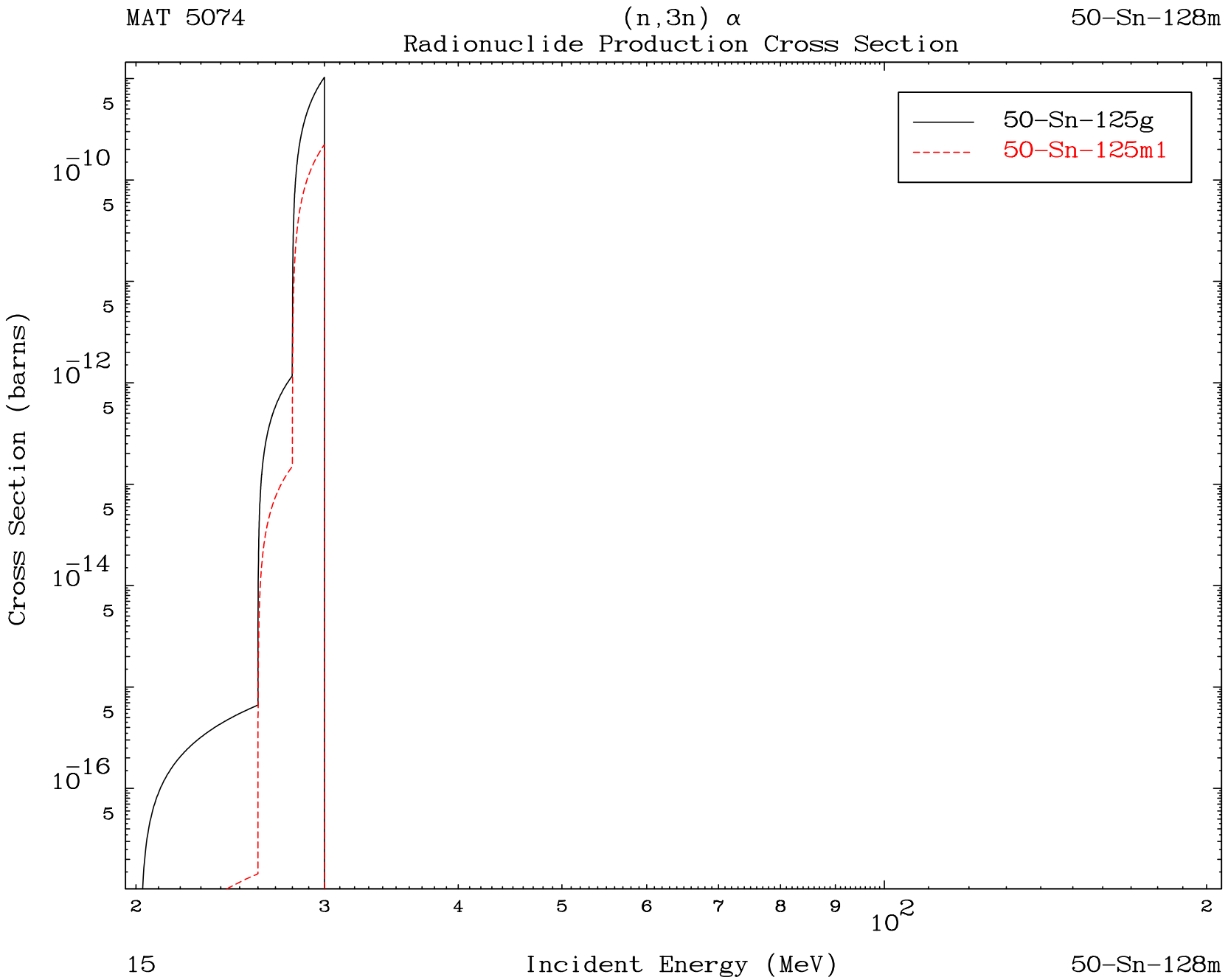

MAT 5074
(α,α) Levels
50-Sn-128m
0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
50-Sn-128m

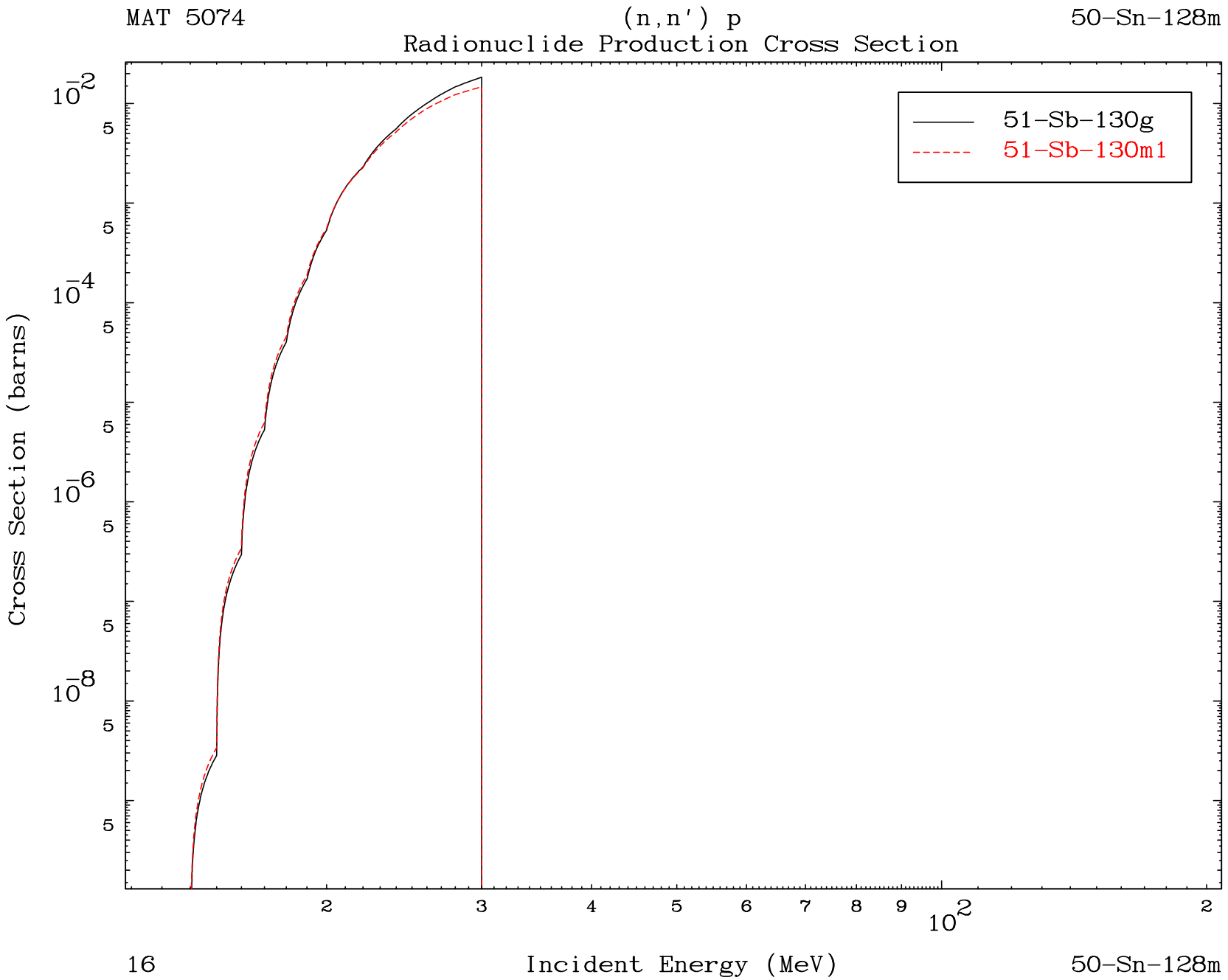

MAT 5074
Inelastic
50-Sn-128m
Radionuclide Production Cross Section
52-Te-131g
52-Te-131m1
Cross Section (barns)
Incident Energy (MeV)
11
50-Sn-128m

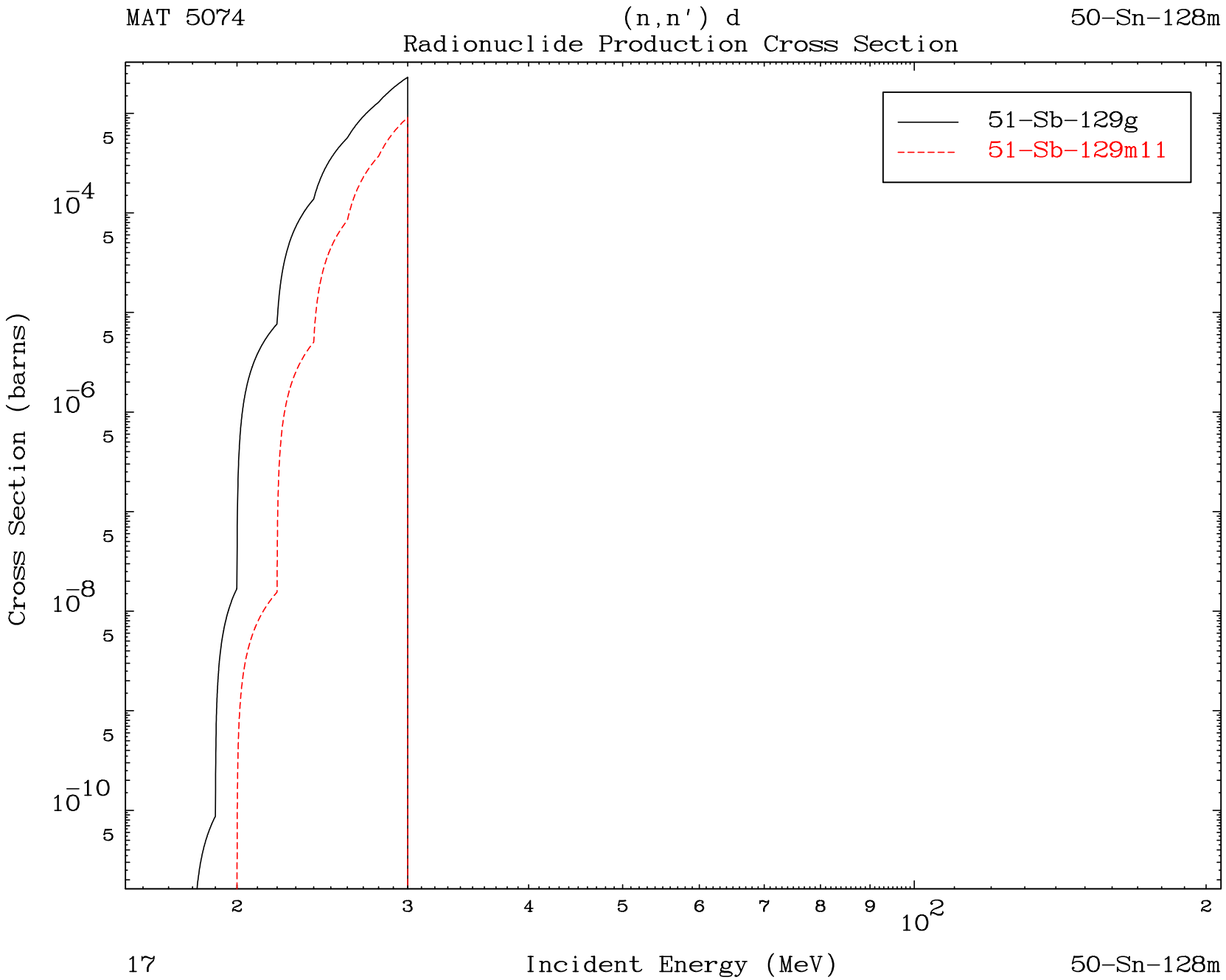

MAT 5074
(n,2n) d
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
Incident Energy (MeV)
12
50-Sn-128m

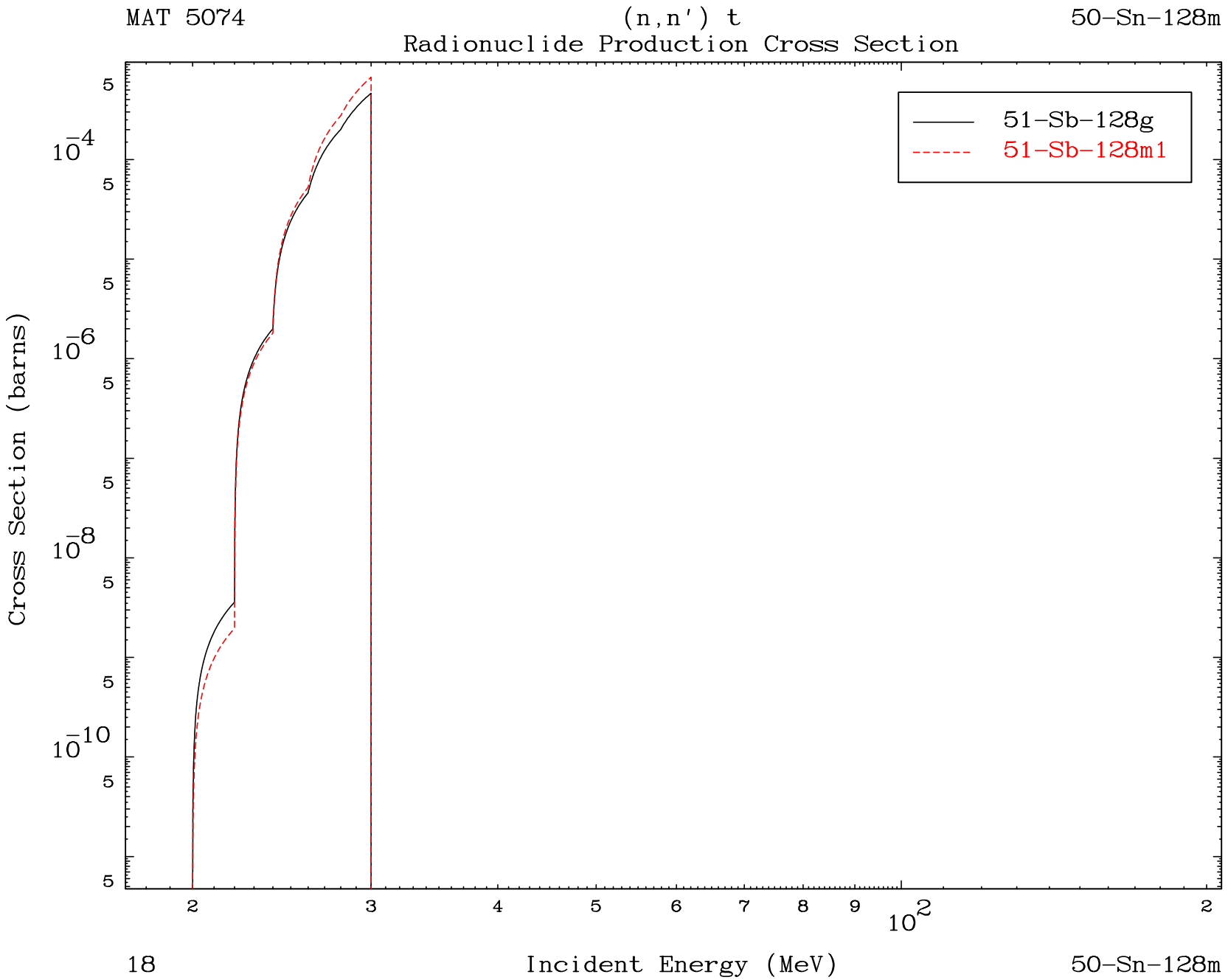

MAT 5074
(n,3n)
50-Sn-128m
Radionuclide Production Cross Section
52-Te-129g
52-Te-129m1
Cross Section (barns)
10-1
10-2
10-3
10-4
5
2
3
4
6
7
8
9
10+2
Incident Energy (MeV)
13
50-Sn-128m

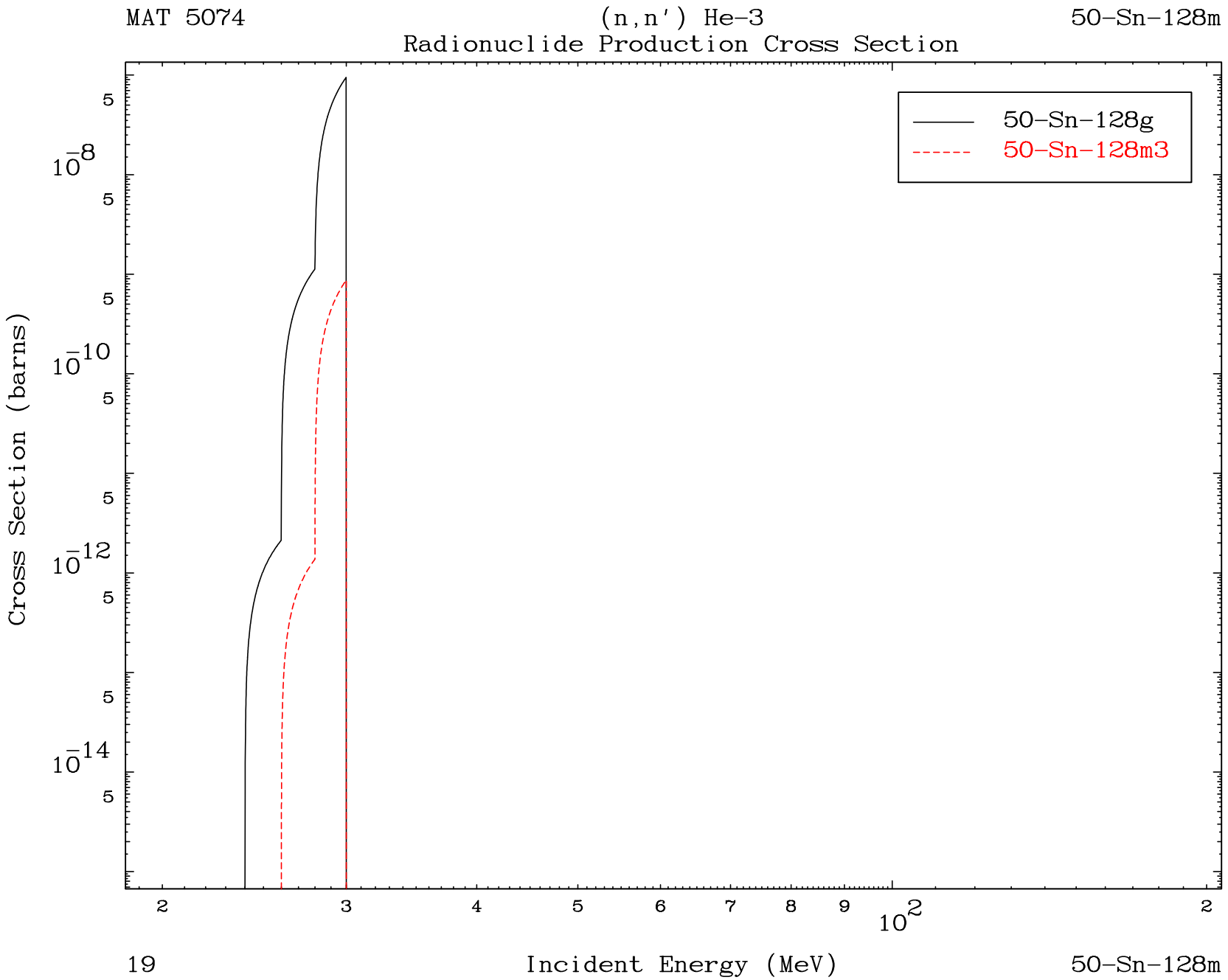

MAT 5074
(n,n') α
50-Sn-128m
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
14
50-Sn-128m

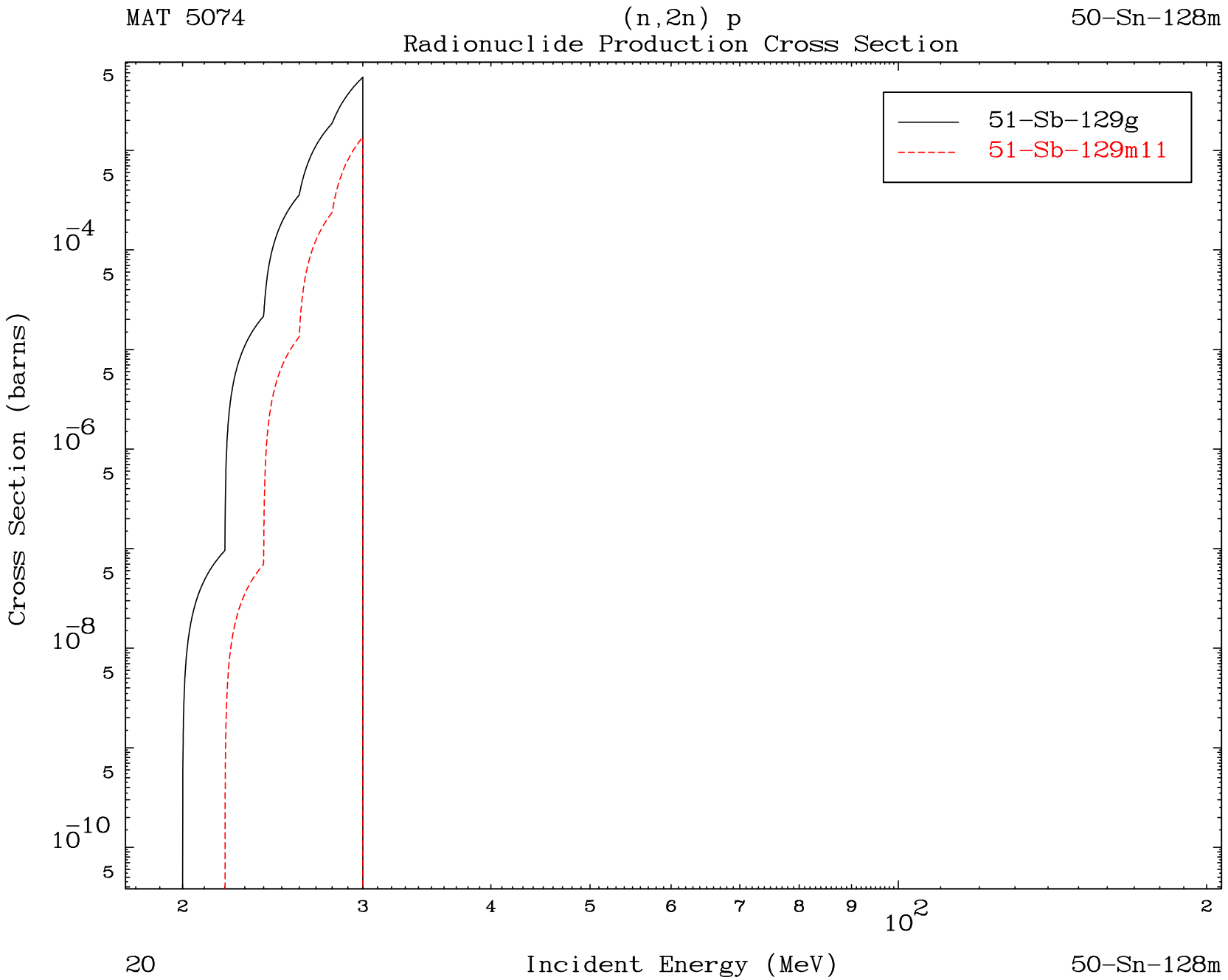

MAT 5074
(n,3n) α
50-Sn-128m
Radionuclide Production Cross Section
50-Sn-125g
50-Sn-125m1
Cross Section (barns)
10-10
10-12
10-14
10-16
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
50-Sn-128m

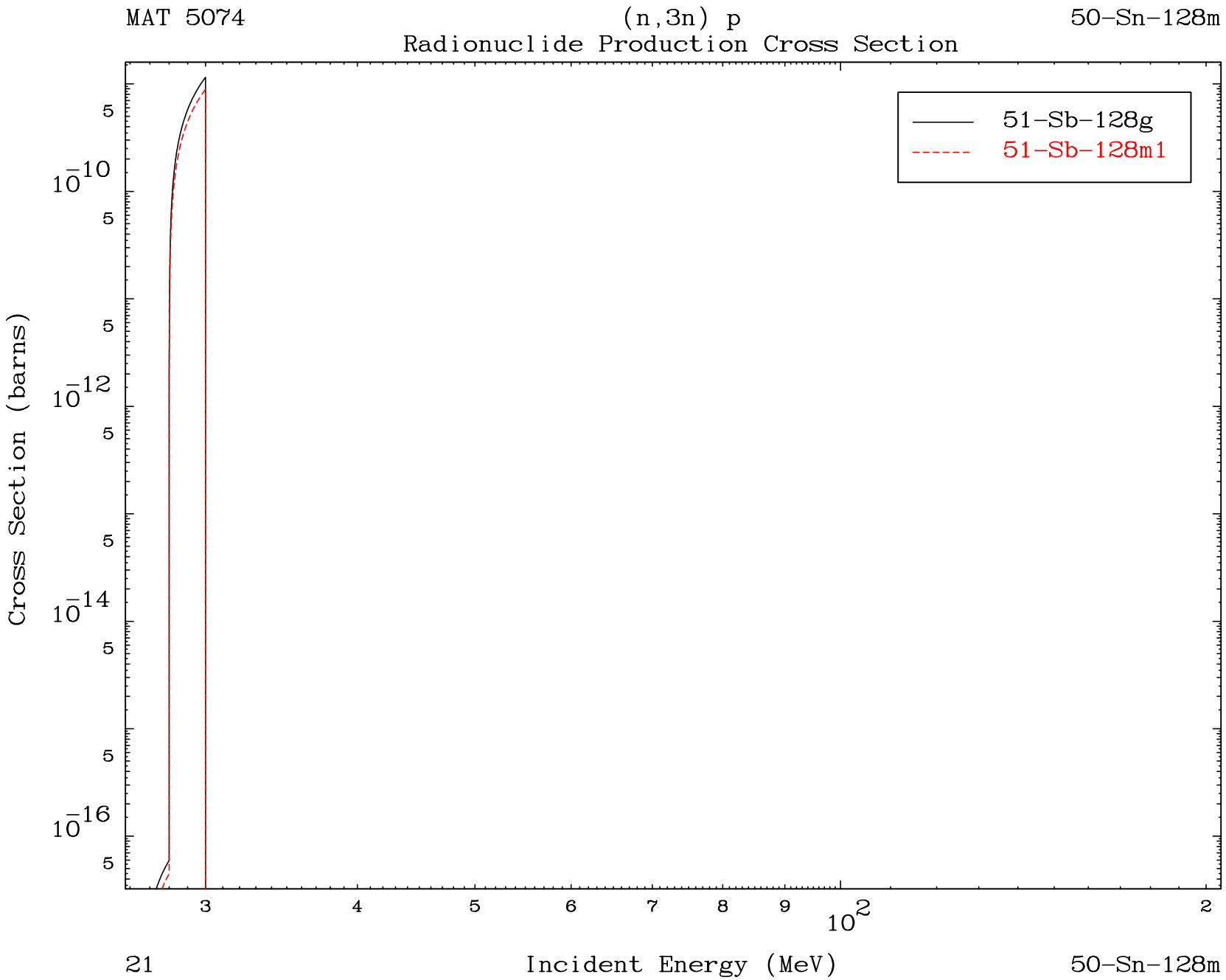

MAT 5074
(n,n') p
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-130g
51-Sb-130m1
Cross Section (barns)
Incident Energy (MeV)
16
50-Sn-128m

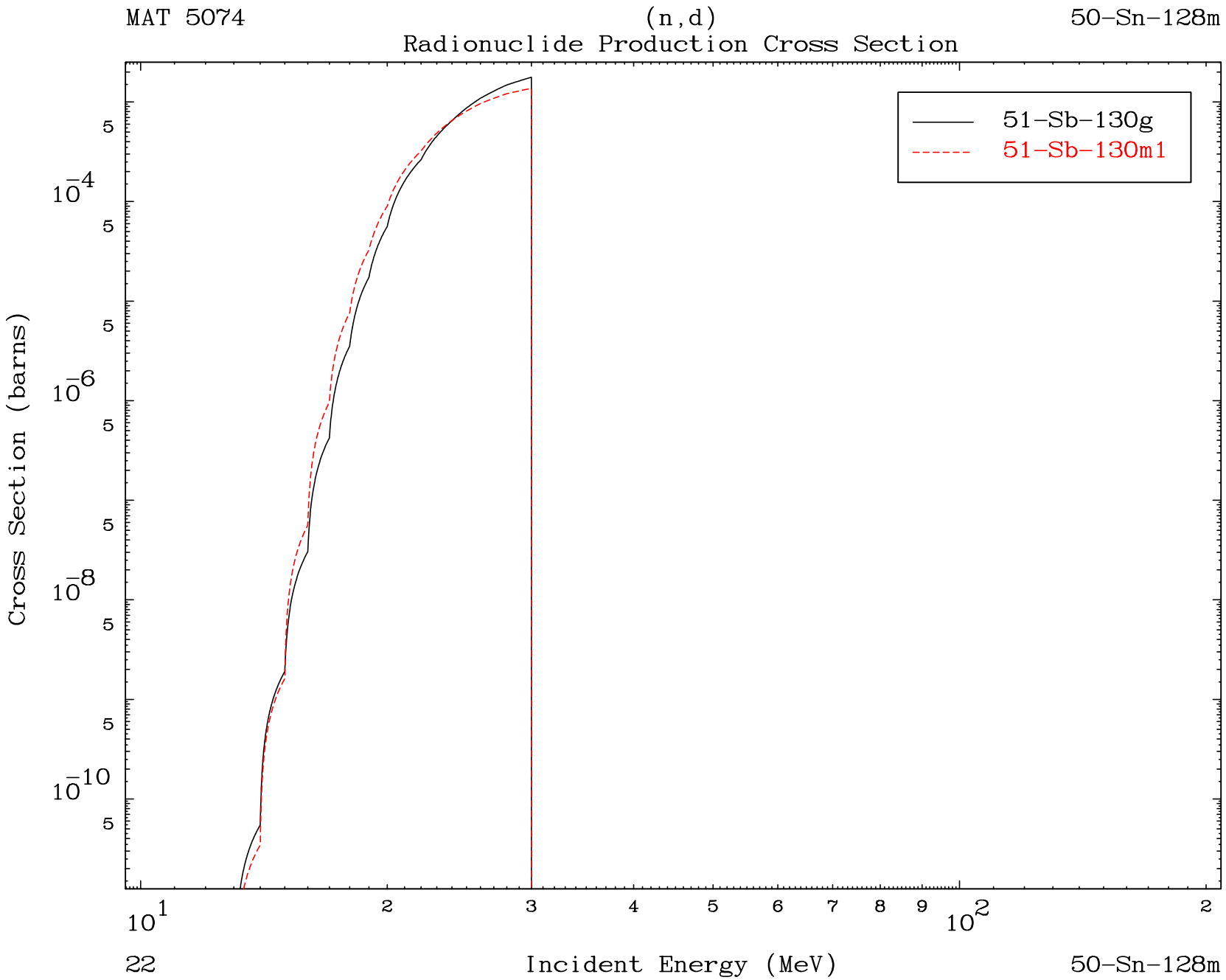

MAT 5074
(n,n') d
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
50-Sn-128m

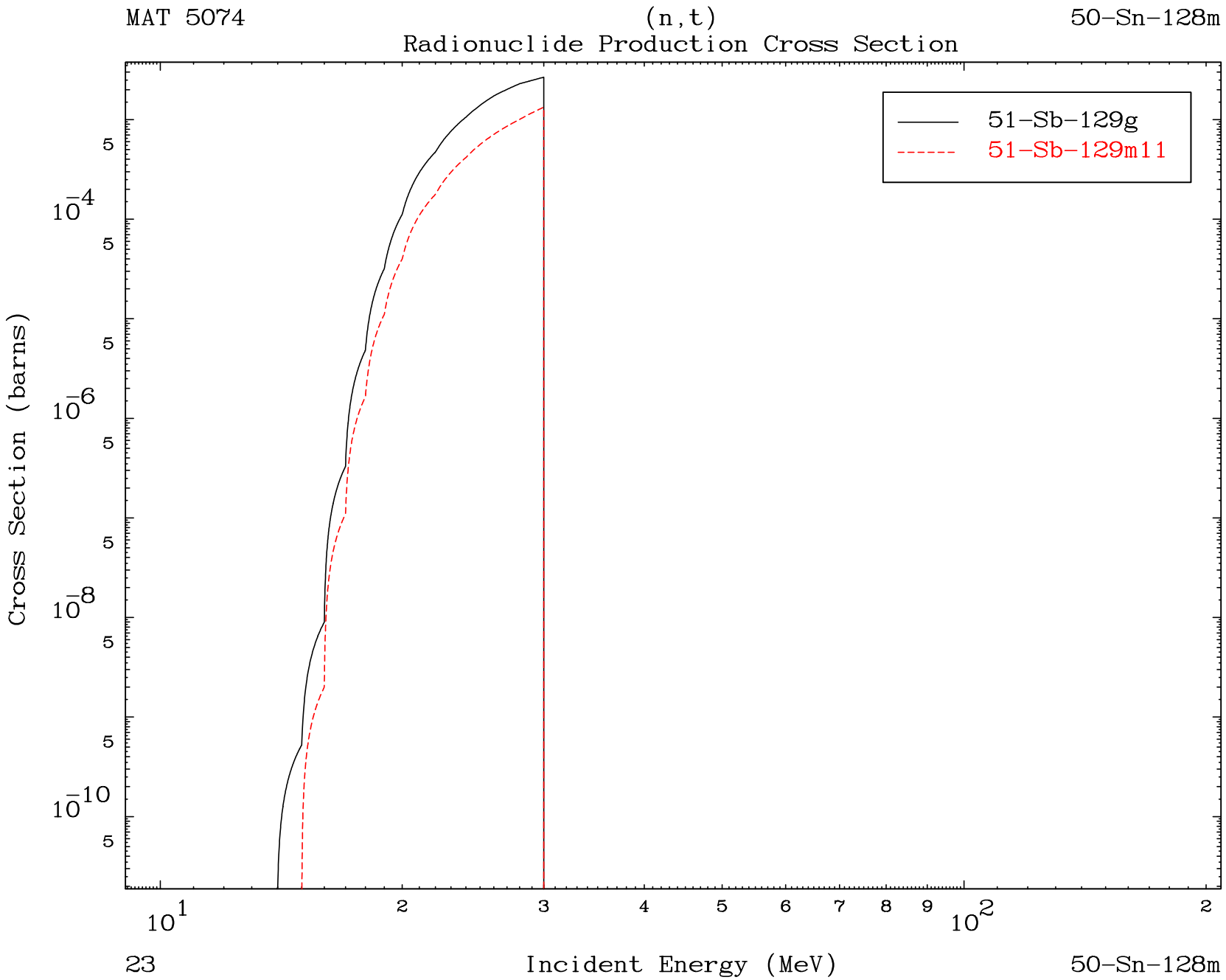

MAT 5074
(n,n') t
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
18
50-Sn-128m

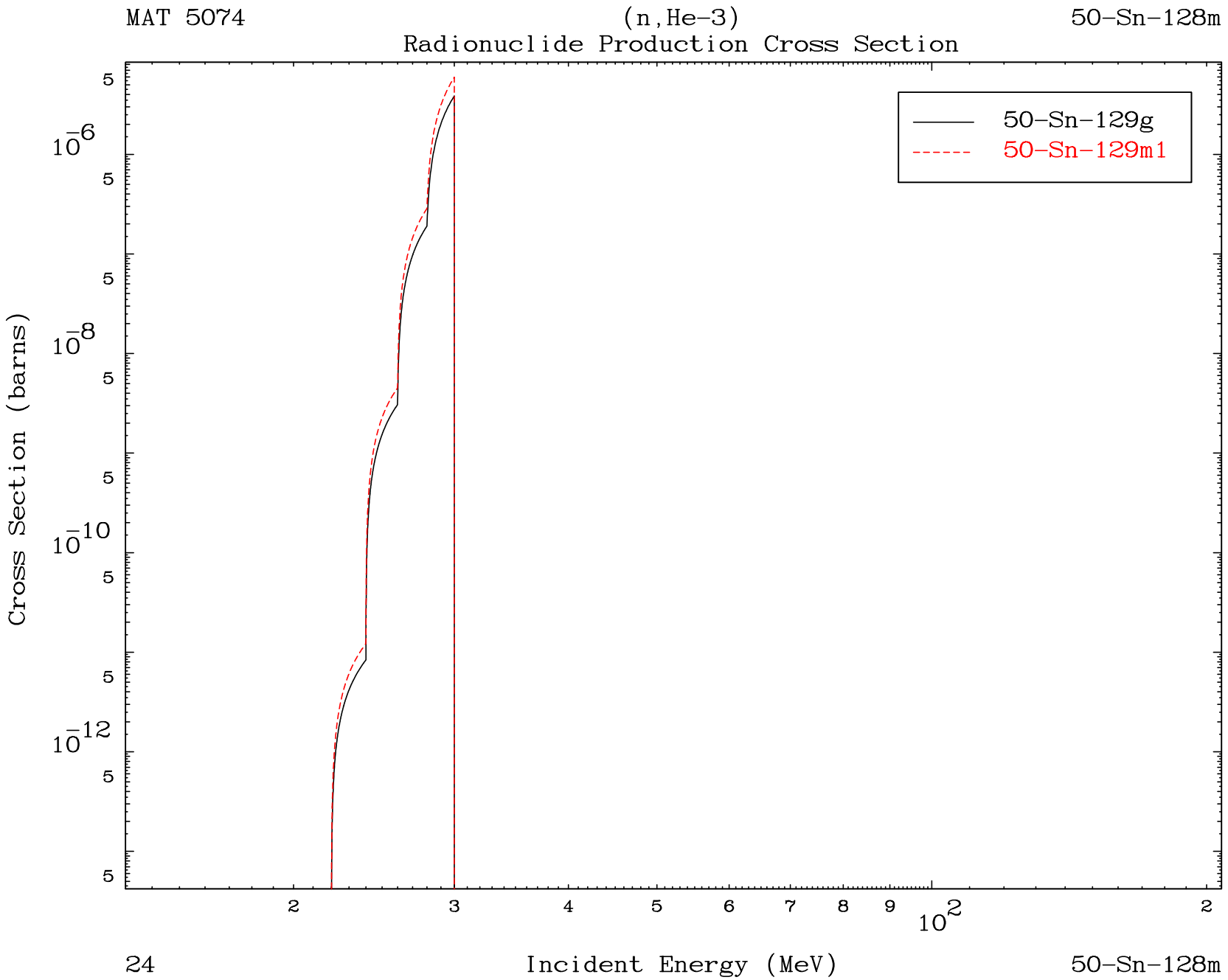

MAT 5074
(n,n') He-3
50-Sn-128m
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
50-Sn-128m

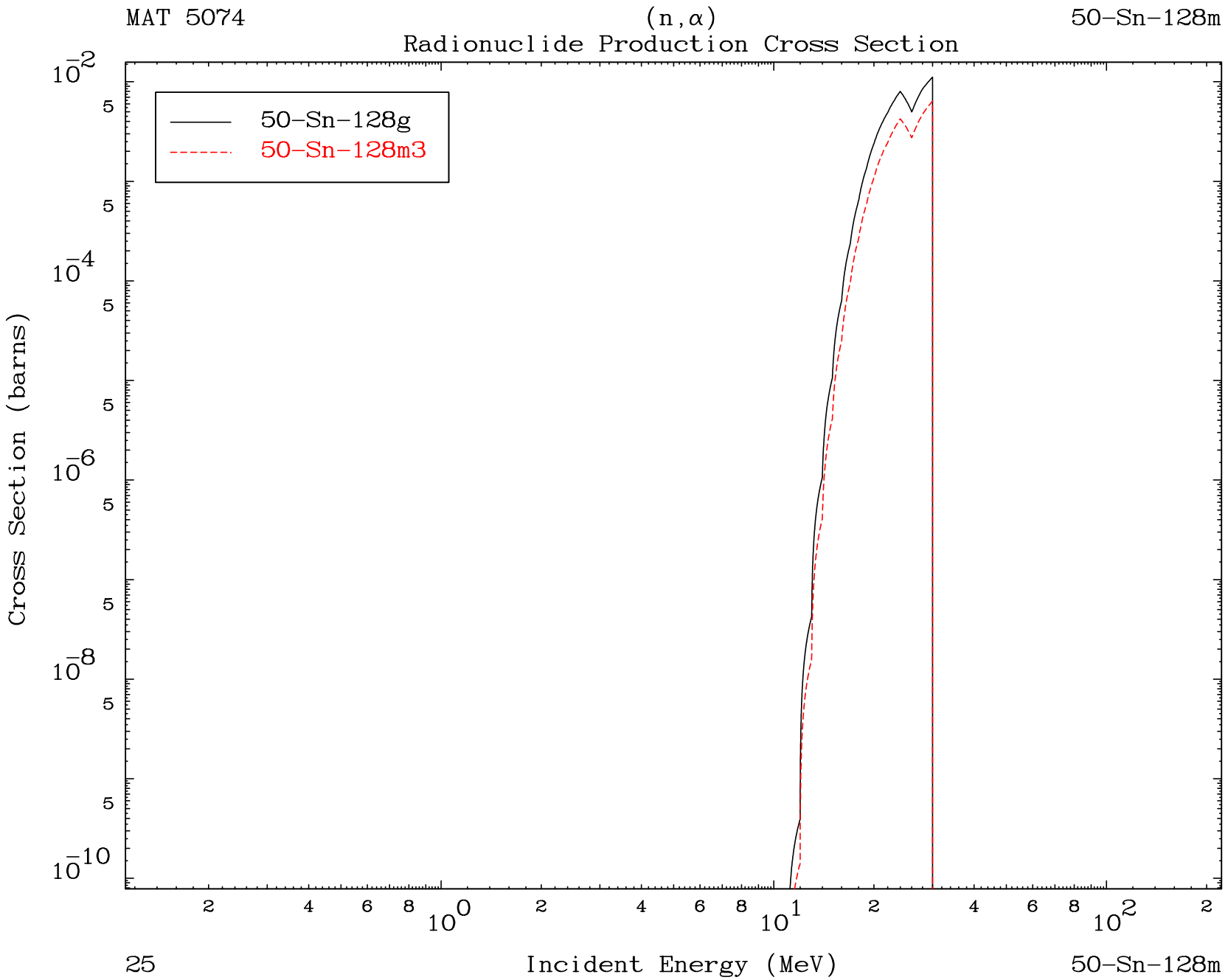

MAT 5074
(n,2n) p
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
Incident Energy (MeV)
20
50-Sn-128m

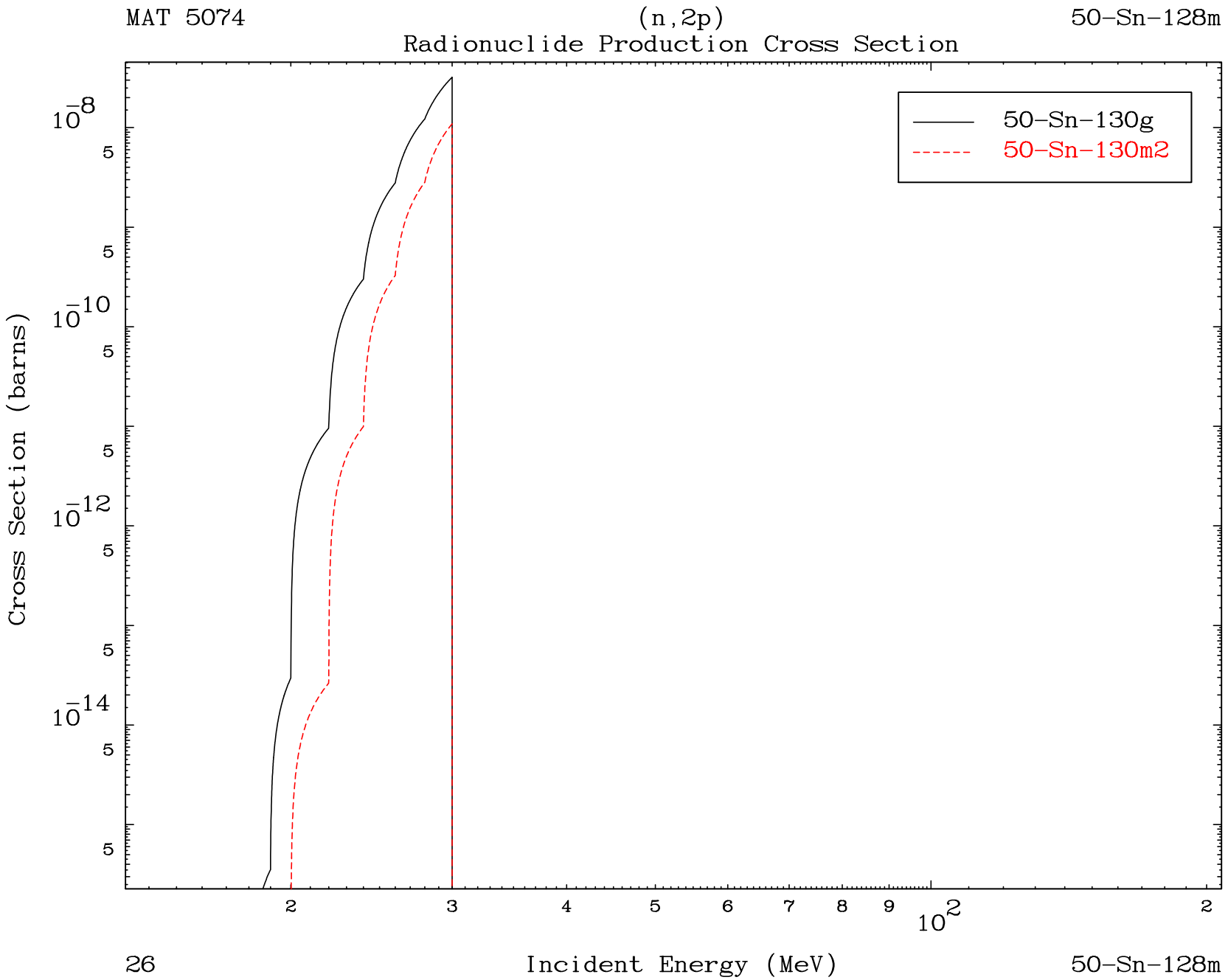

MAT 5074
(n,3n) p
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
50-Sn-128m


MAT 5074
(n,d)
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-130g
51-Sb-130m1
Cross Section (barns)
10-4
10-6
10-8
10-10
101
102
Incident Energy (MeV)
22
50-Sn-128m


MAT 5074
(n,t)
50-Sn-128m
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
23
Incident Energy (MeV)
50-Sn-128m


MAT 5074
(n,He-3)
50-Sn-128m
Radionuclide Production Cross Section
50-Sn-129g
50-Sn-129m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
24
Incident Energy (MeV)
50-Sn-128m


MAT 5074
(n,α)
50-Sn-128m
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
Incident Energy (MeV)
25
50-Sn-128m


MAT 5074
(n,2p)
50-Sn-128m
Radionuclide Production Cross Section
50-Sn-130g
50-Sn-130m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
26
Incident Energy (MeV)
50-Sn-128m