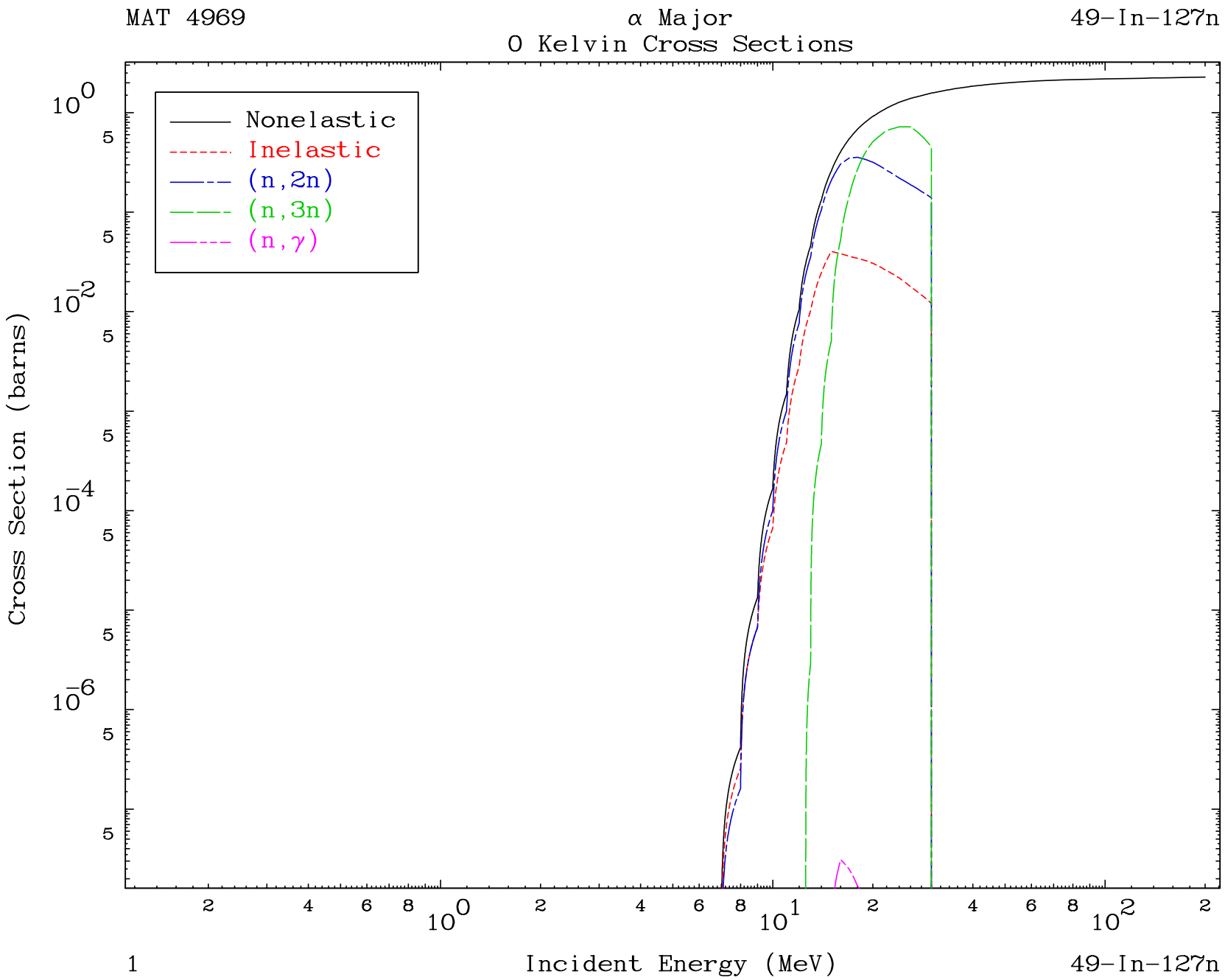
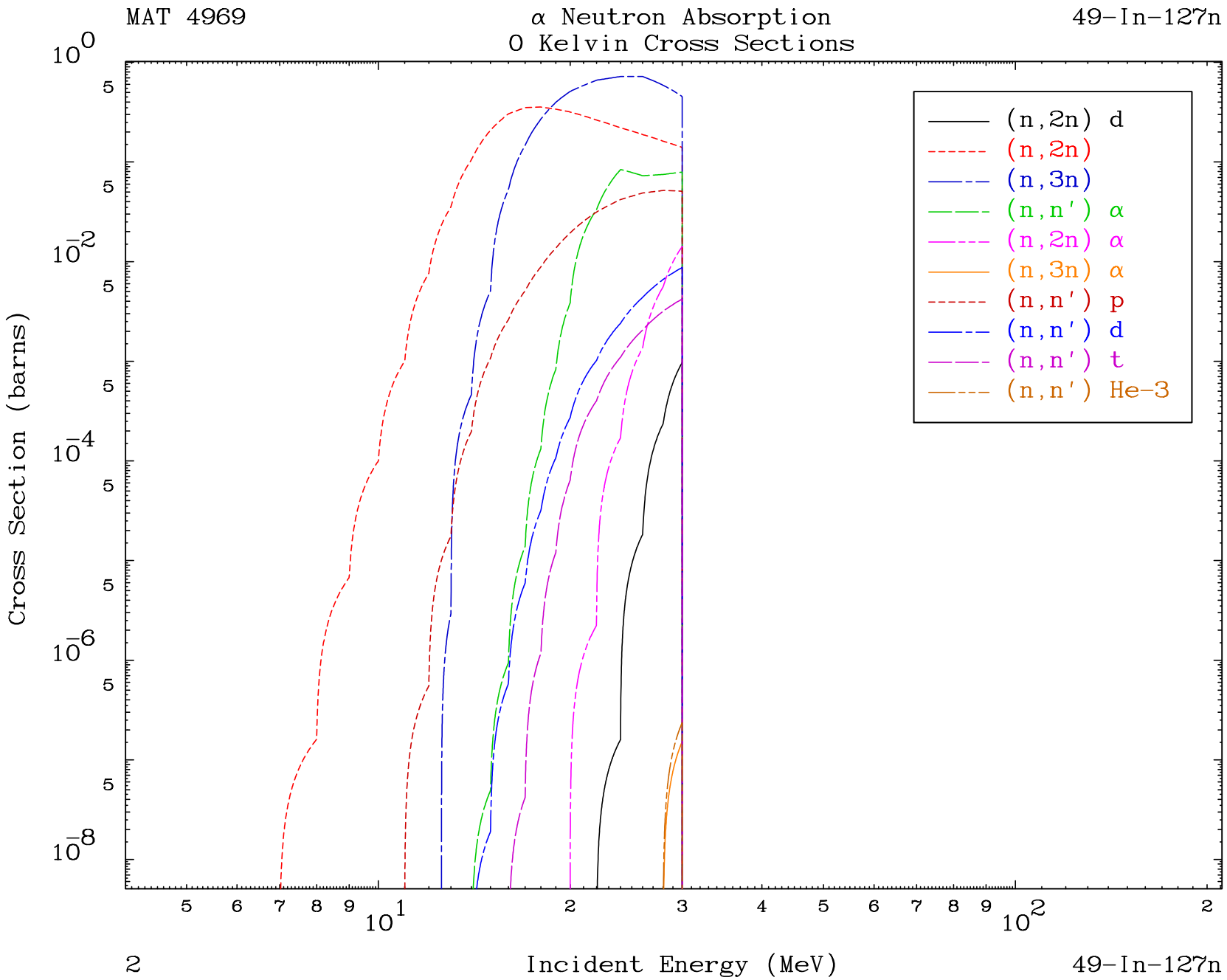
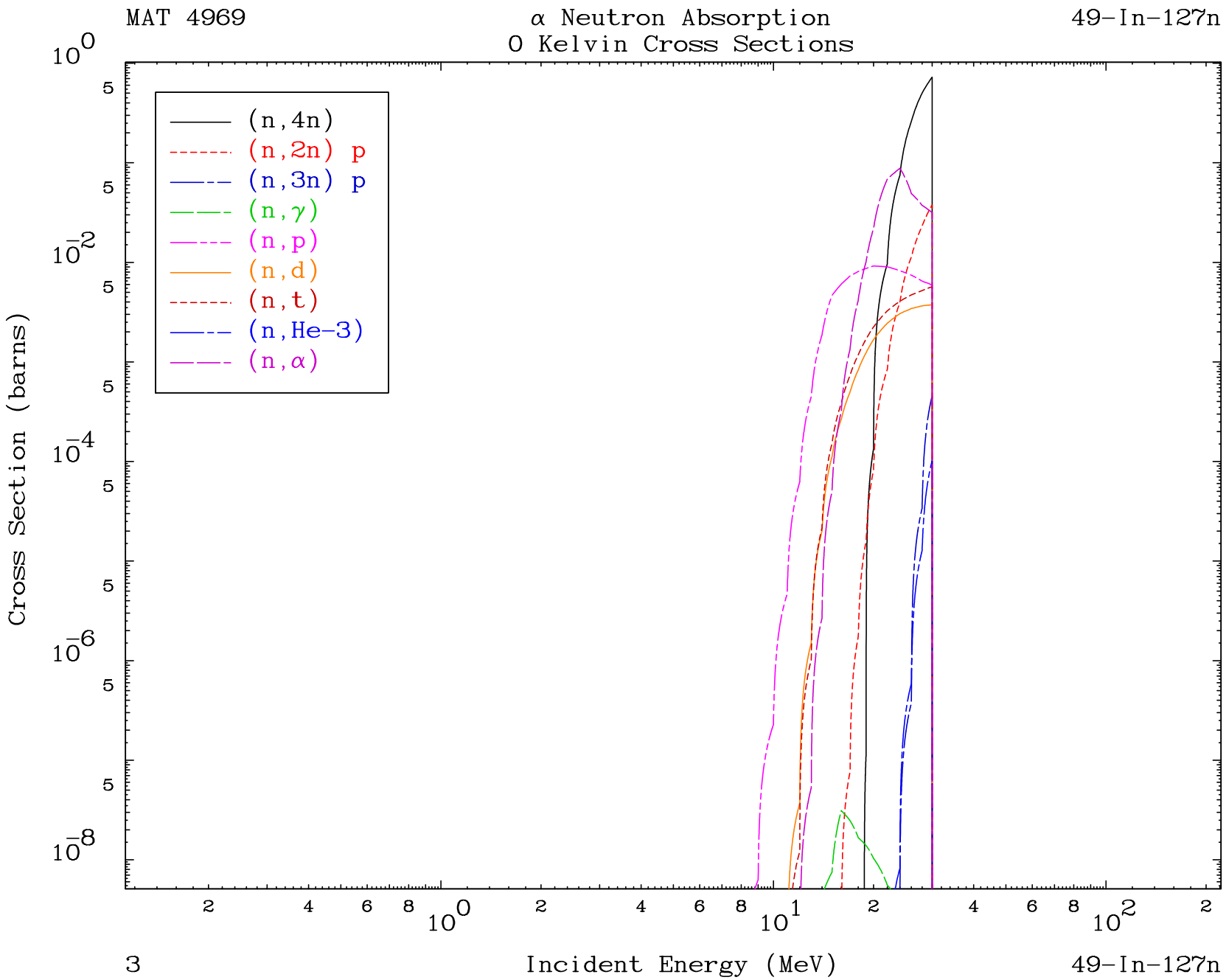
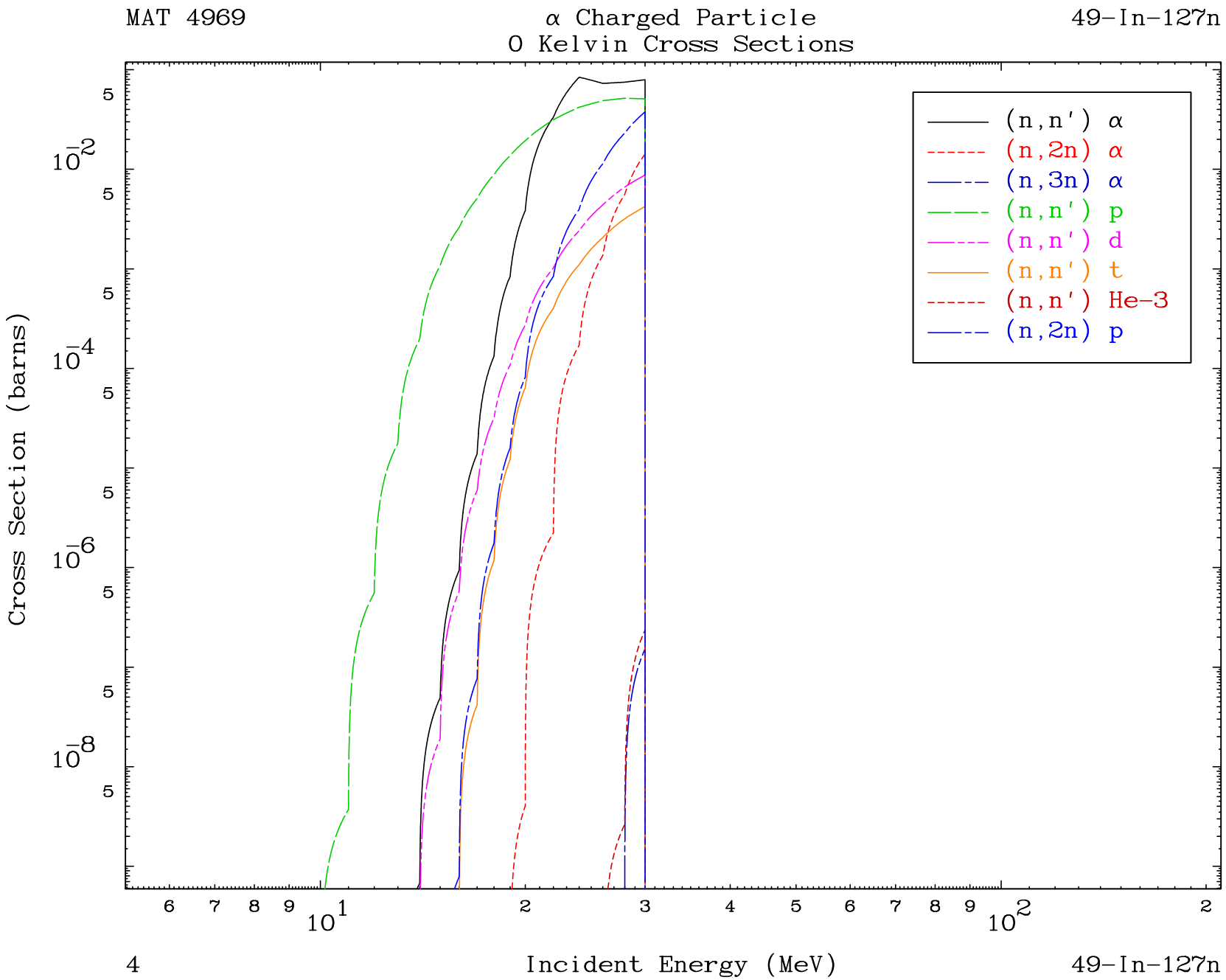
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

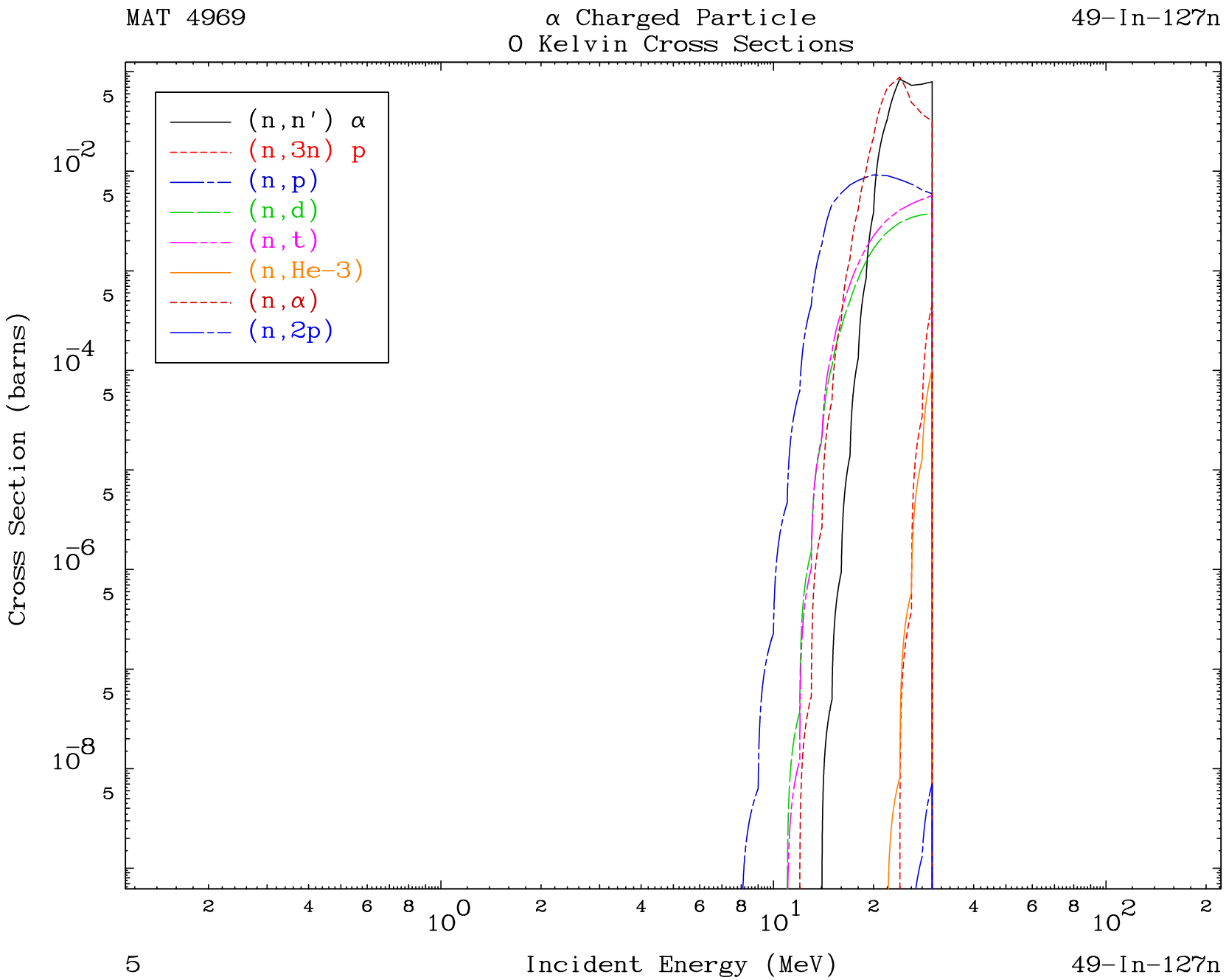
Press Mouse Button to Start

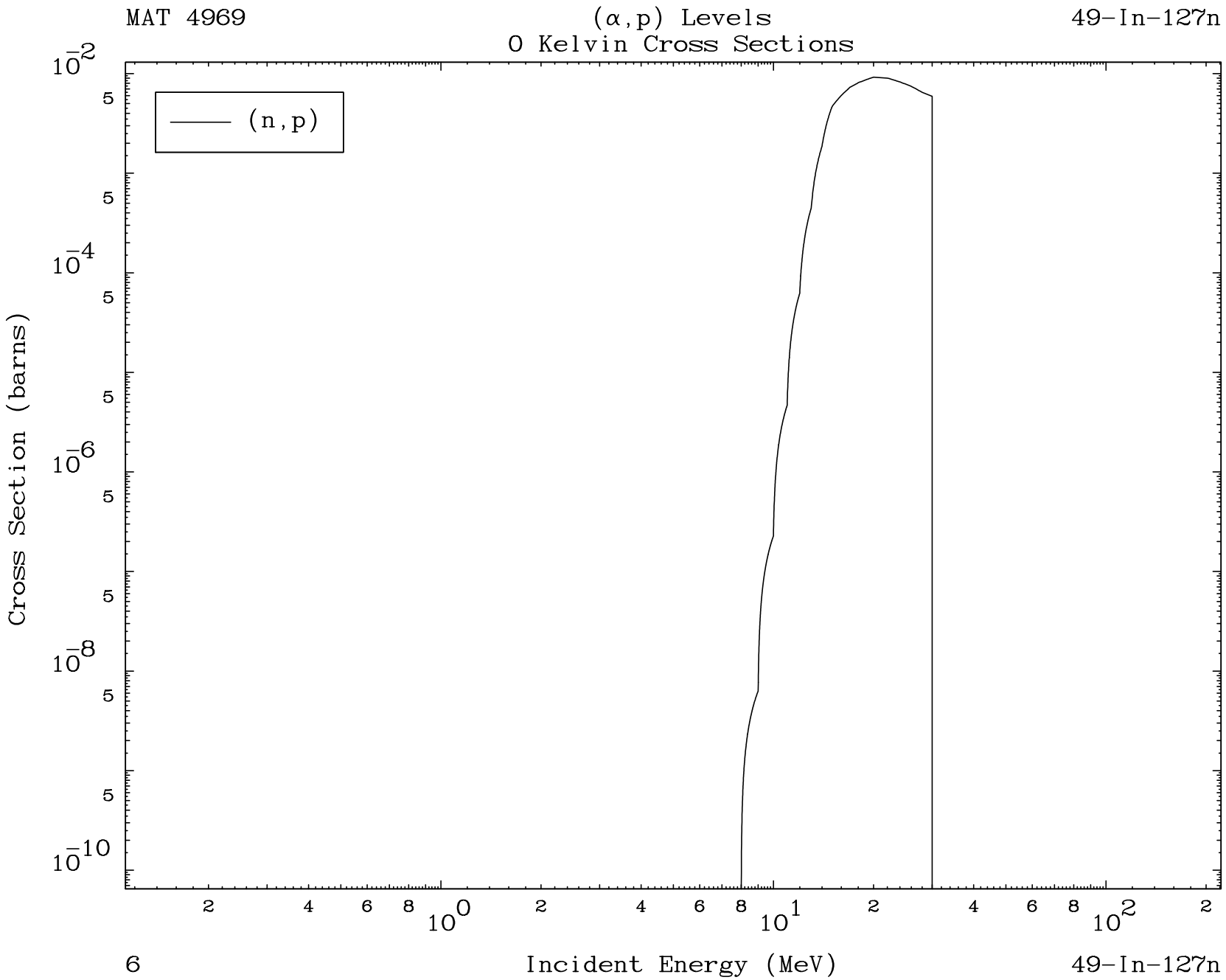

MAT 4969
α Major
49-In-127n
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
49-In-127n
1

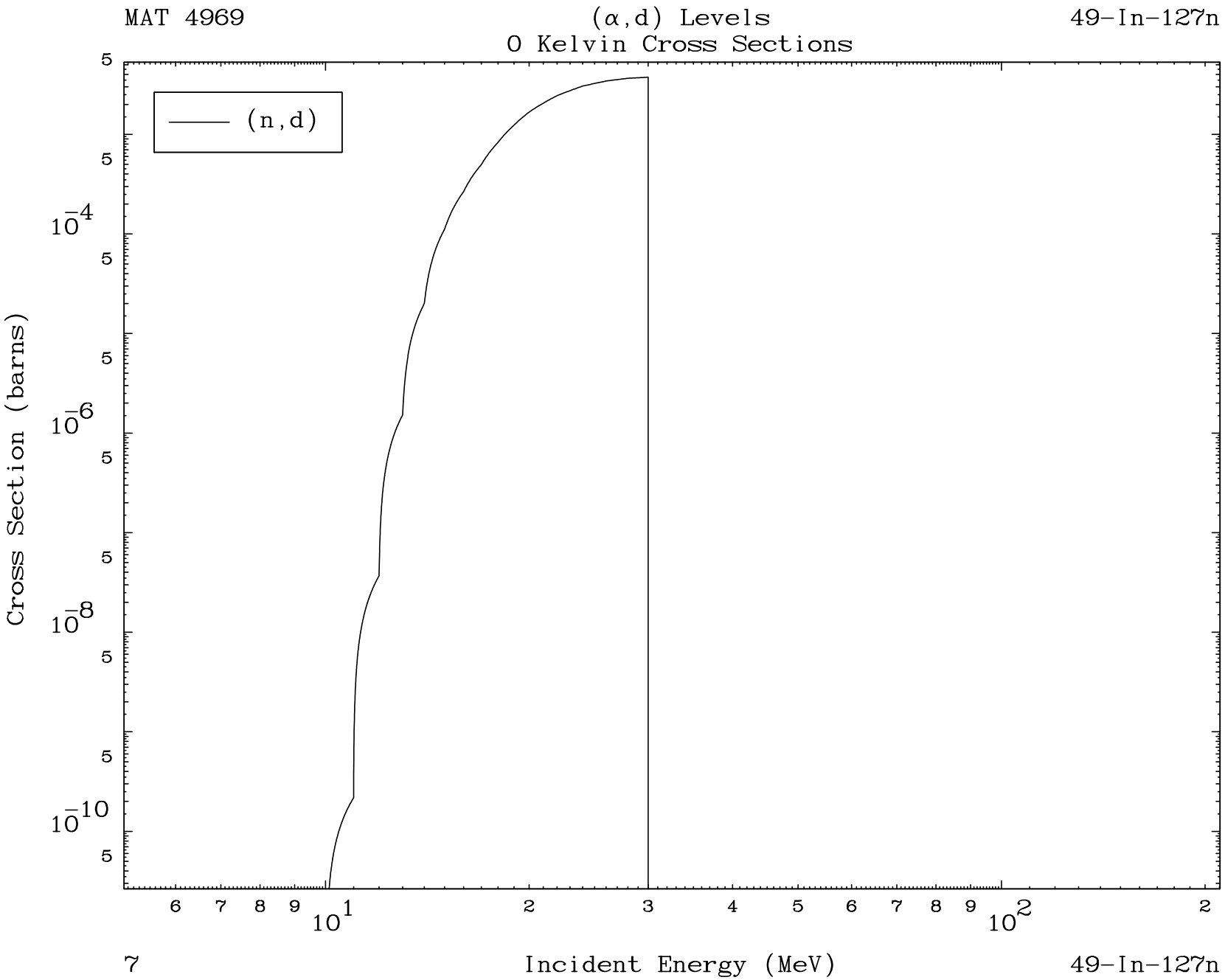

MAT 4969
α Neutron Absorption
0 Kelvin Cross Sections
49-In-127n
Cross Section (barns)
Incident Energy (MeV)
49-In-127n
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3

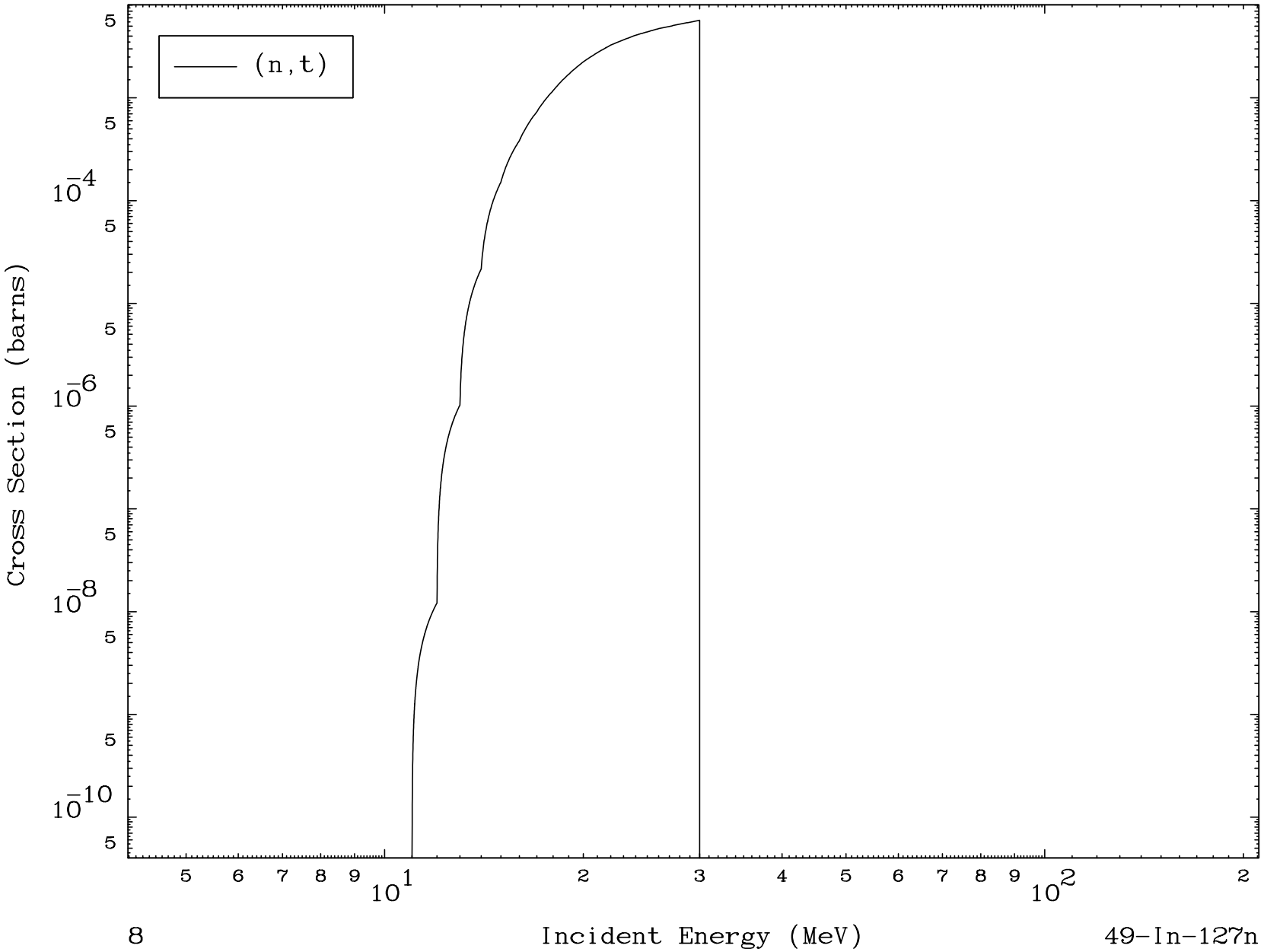

MAT 4969
α Neutron Absorption
0 Kelvin Cross Sections
49-In-127n
(n,4n)
(n,2n) p
(n,3n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
3
49-In-127n

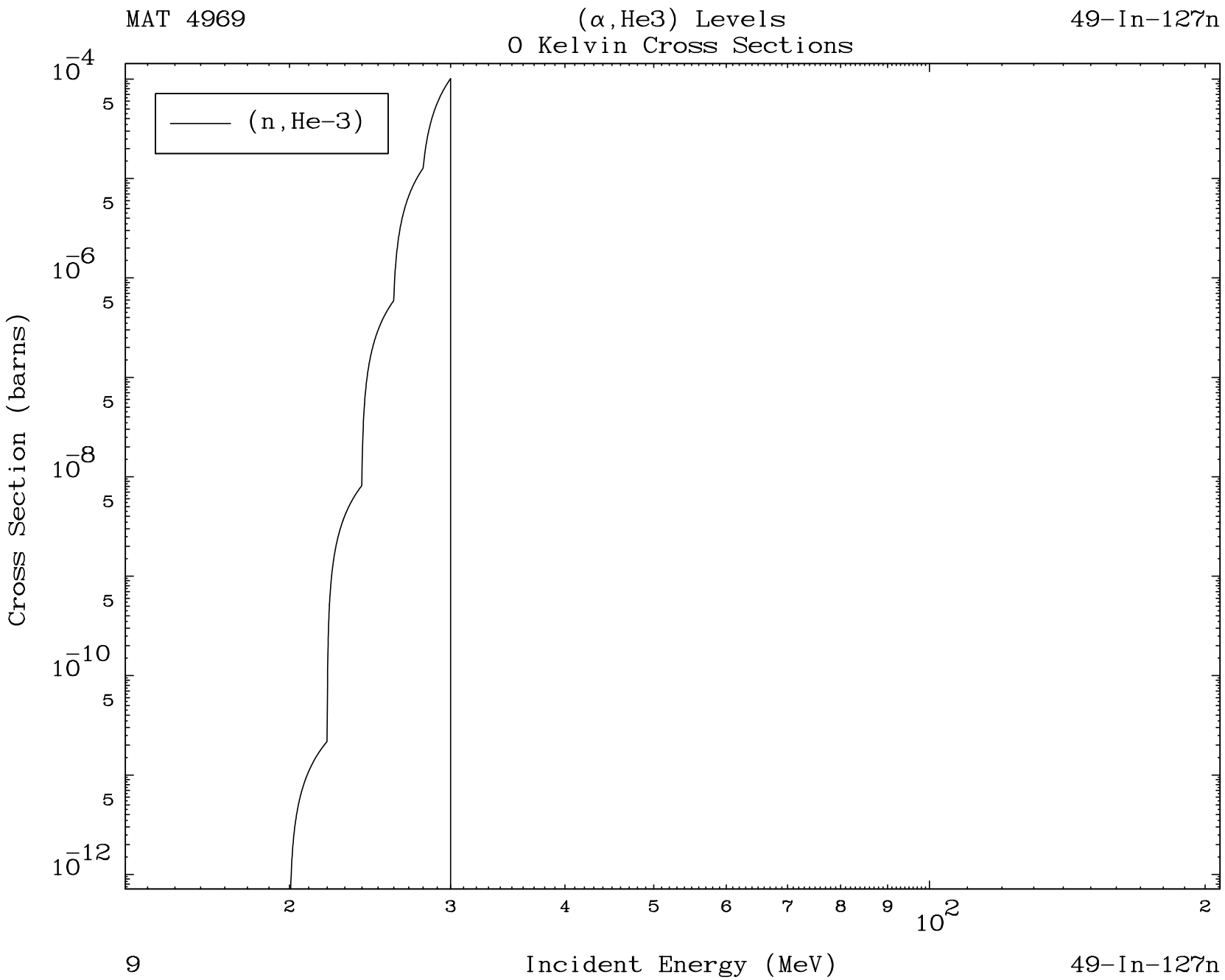

MAT 4969
α Charged Particle
0 Kelvin Cross Sections
49-In-127n
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
4
49-In-127n

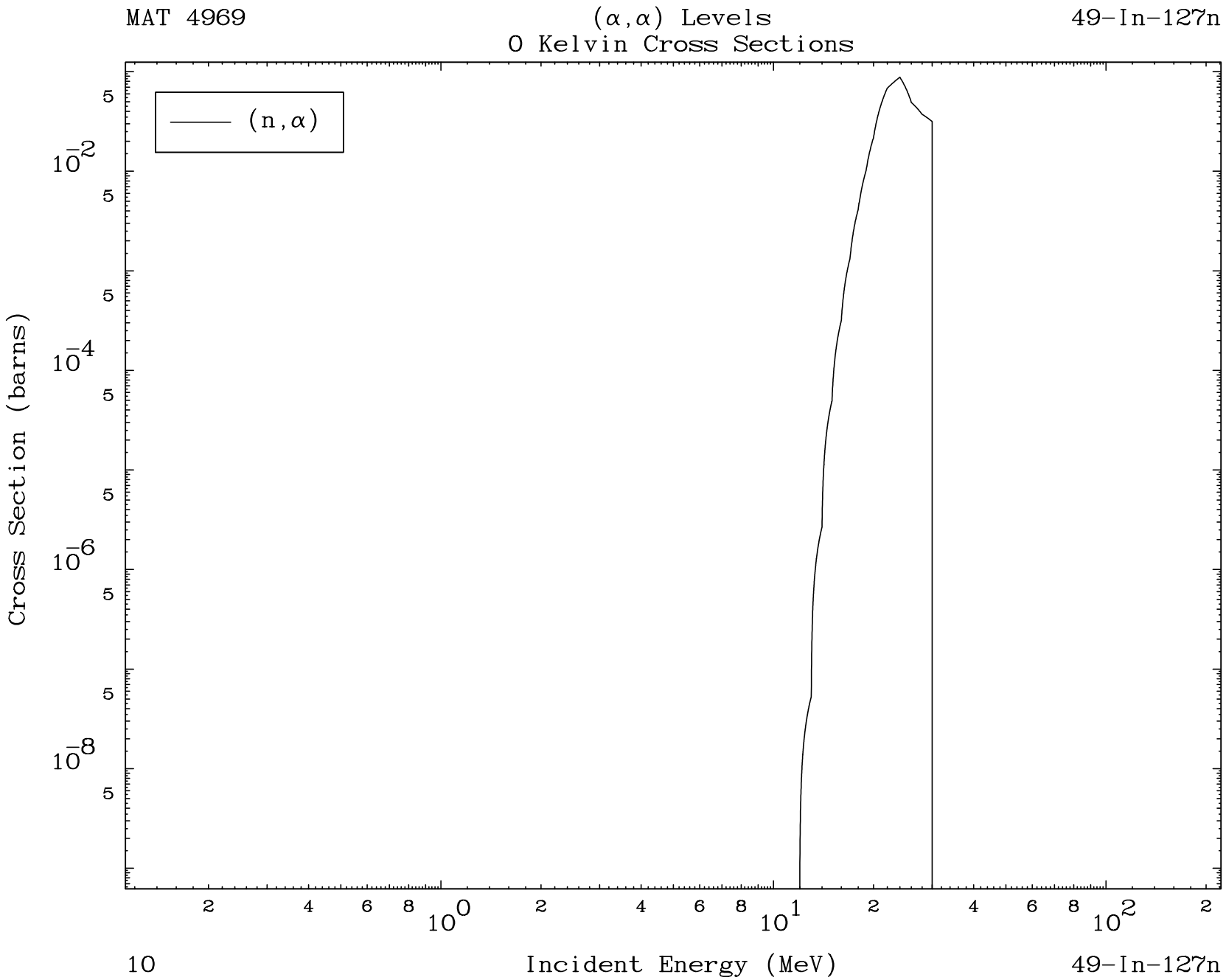

MAT 4969
α Charged Particle
0 Kelvin Cross Sections
49-In-127n
(n,n') α
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
Cross Section (barns)
Incident Energy (MeV)
49-In-127n
5

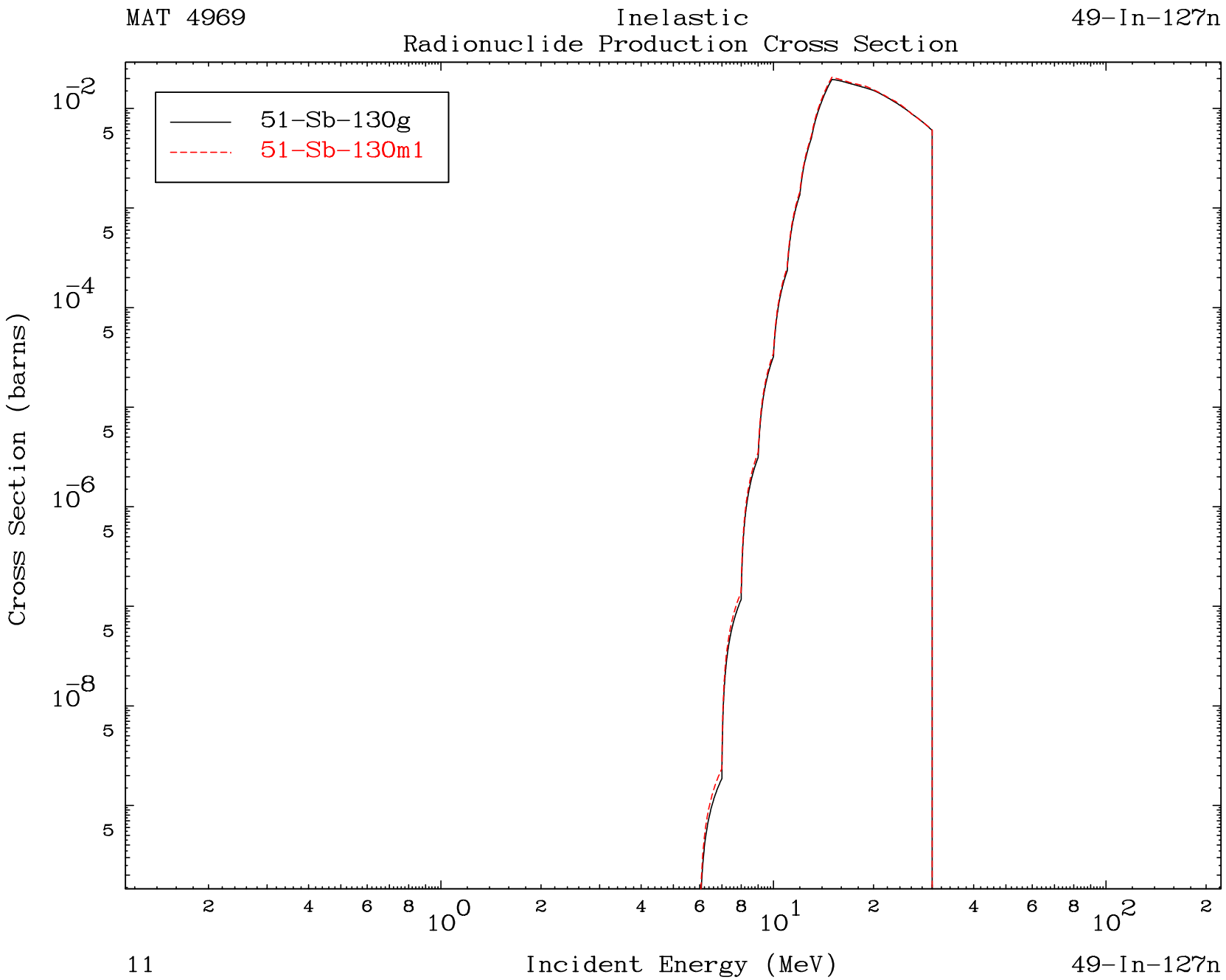

MAT 4969
(α,p) Levels
49-In-127n
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
49-In-127n

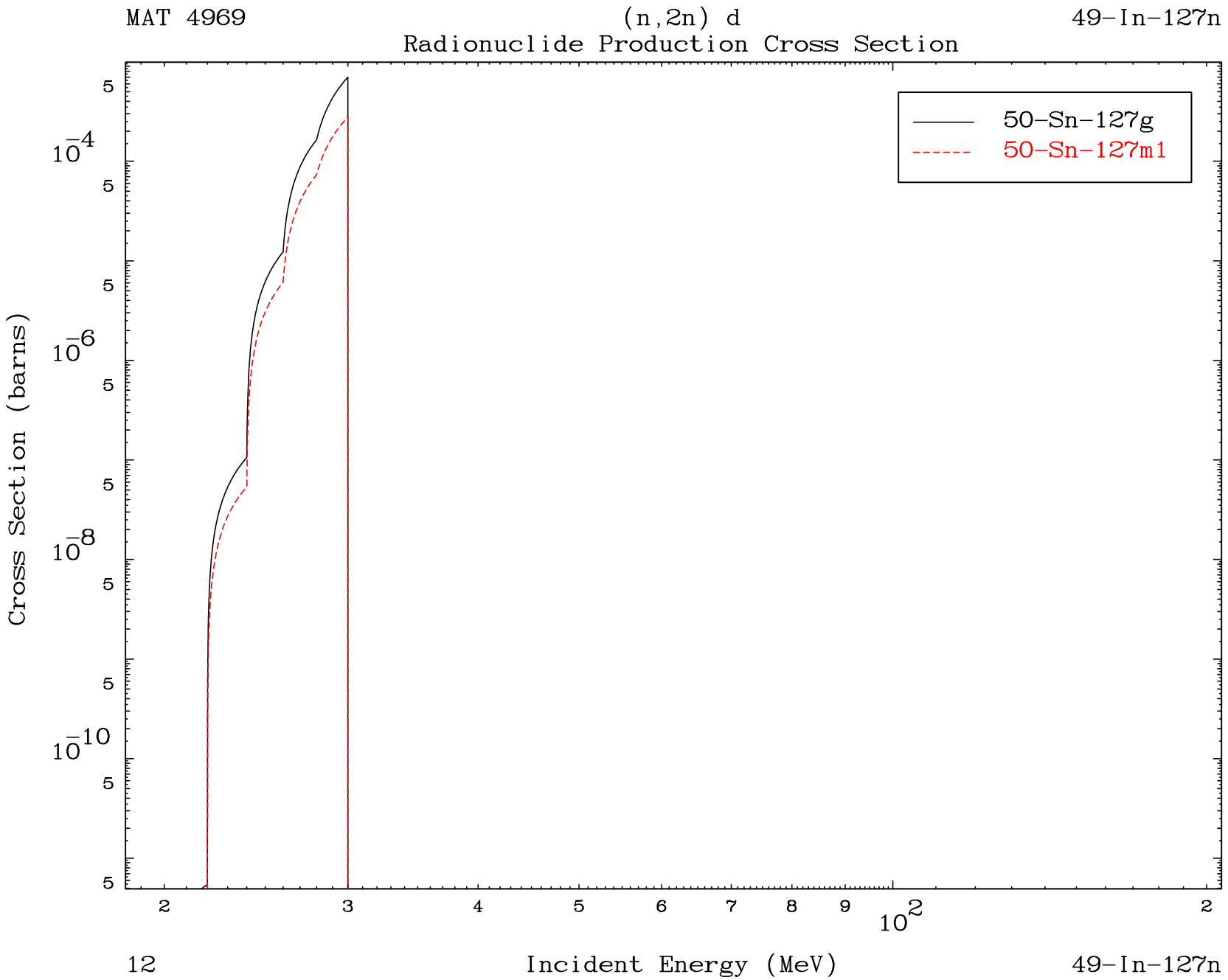

MAT 4969
(α,d) Levels
49-In-127n
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
49-In-127n
7

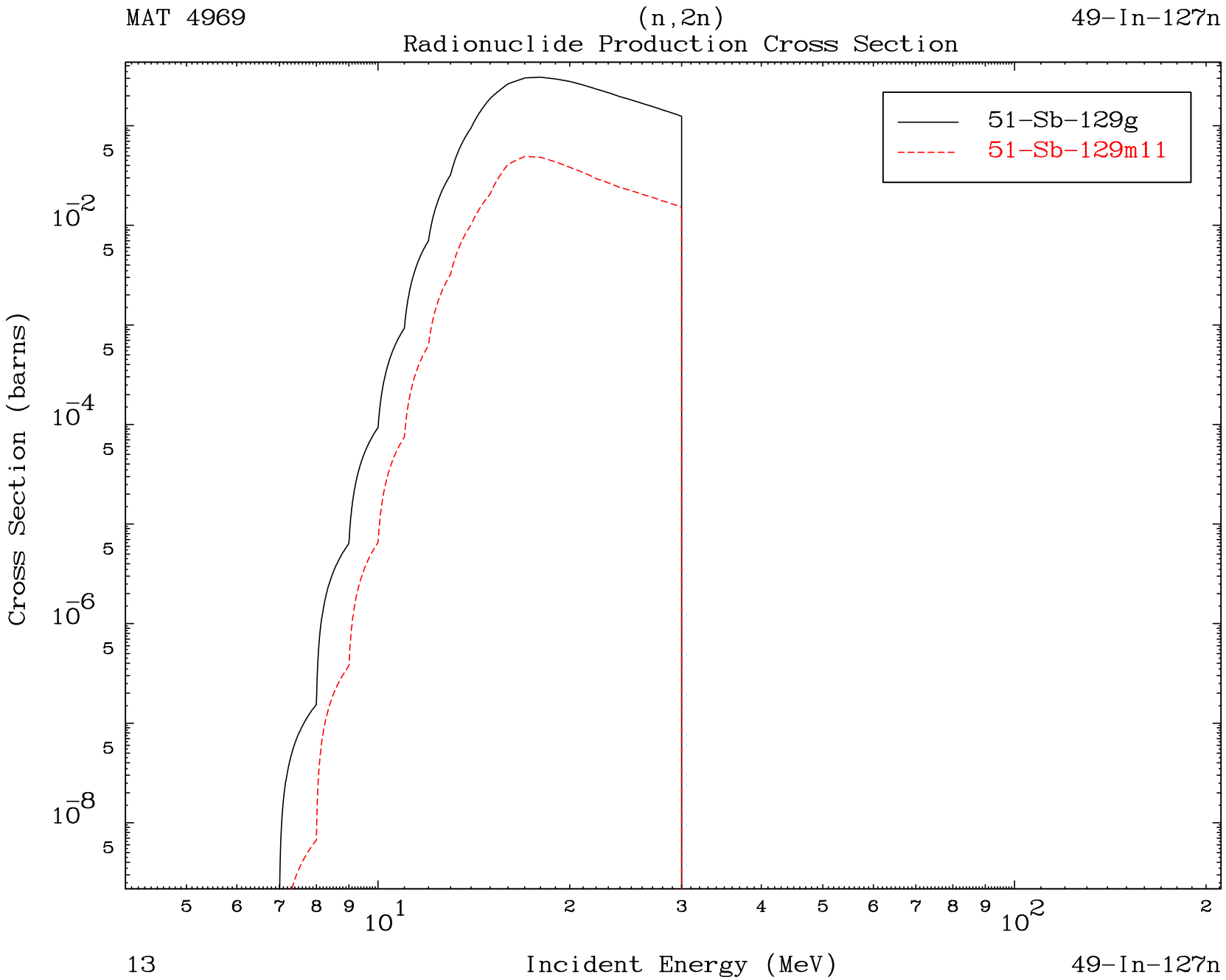

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)

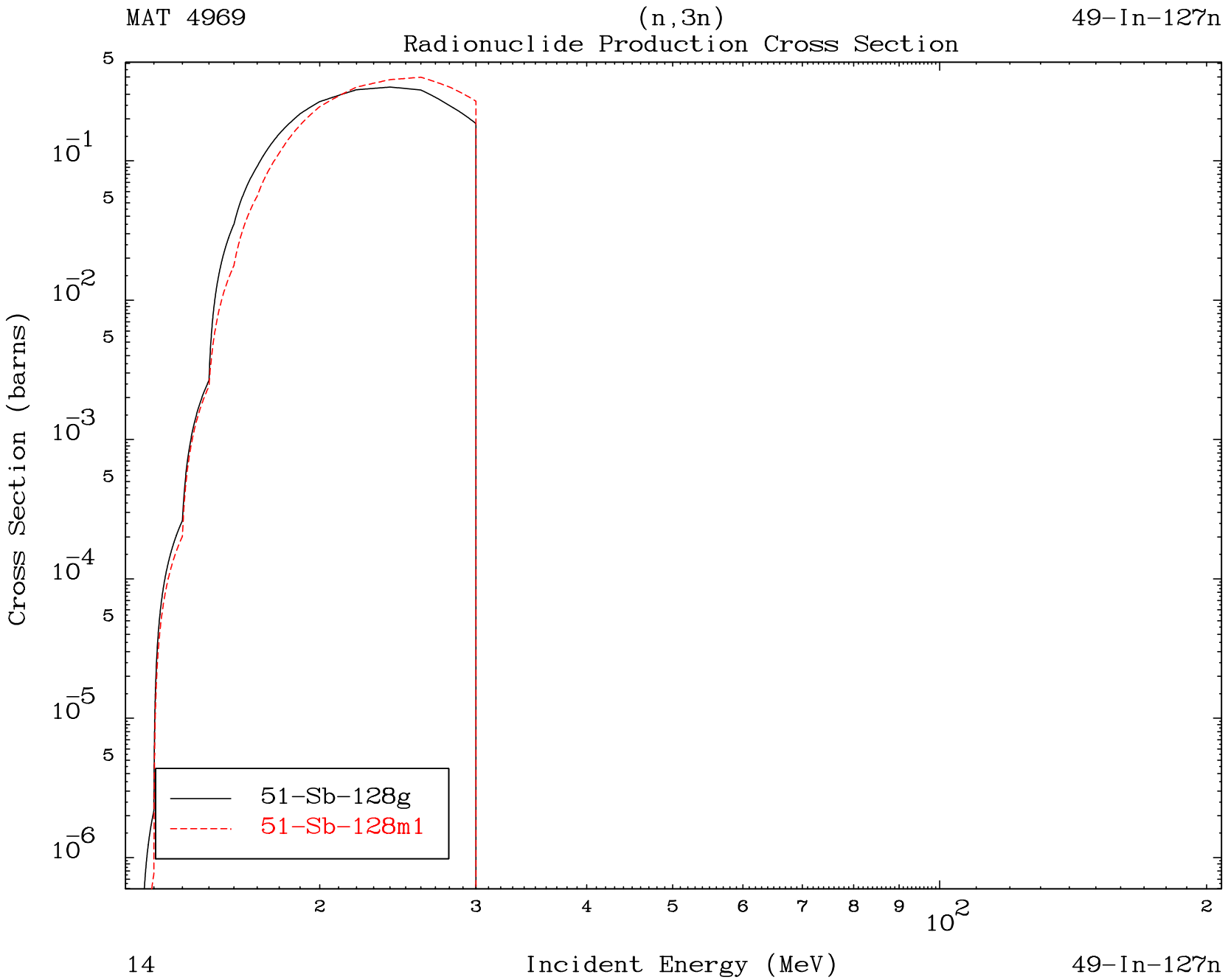

MAT 4969
(α,He3) Levels
49-In-127n
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
49-In-127n

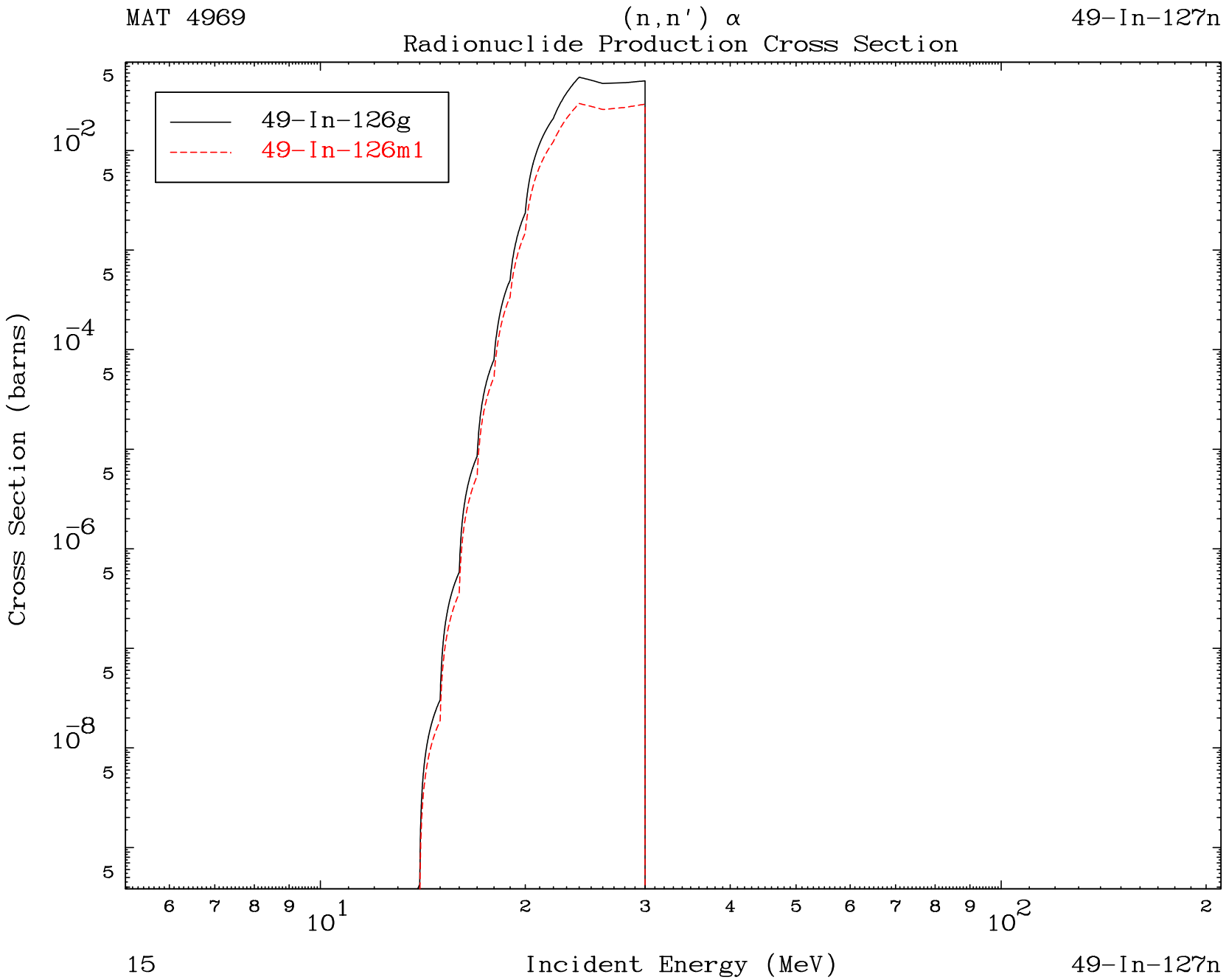

MAT 4969
(α,α) Levels
49-In-127n
0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
49-In-127n

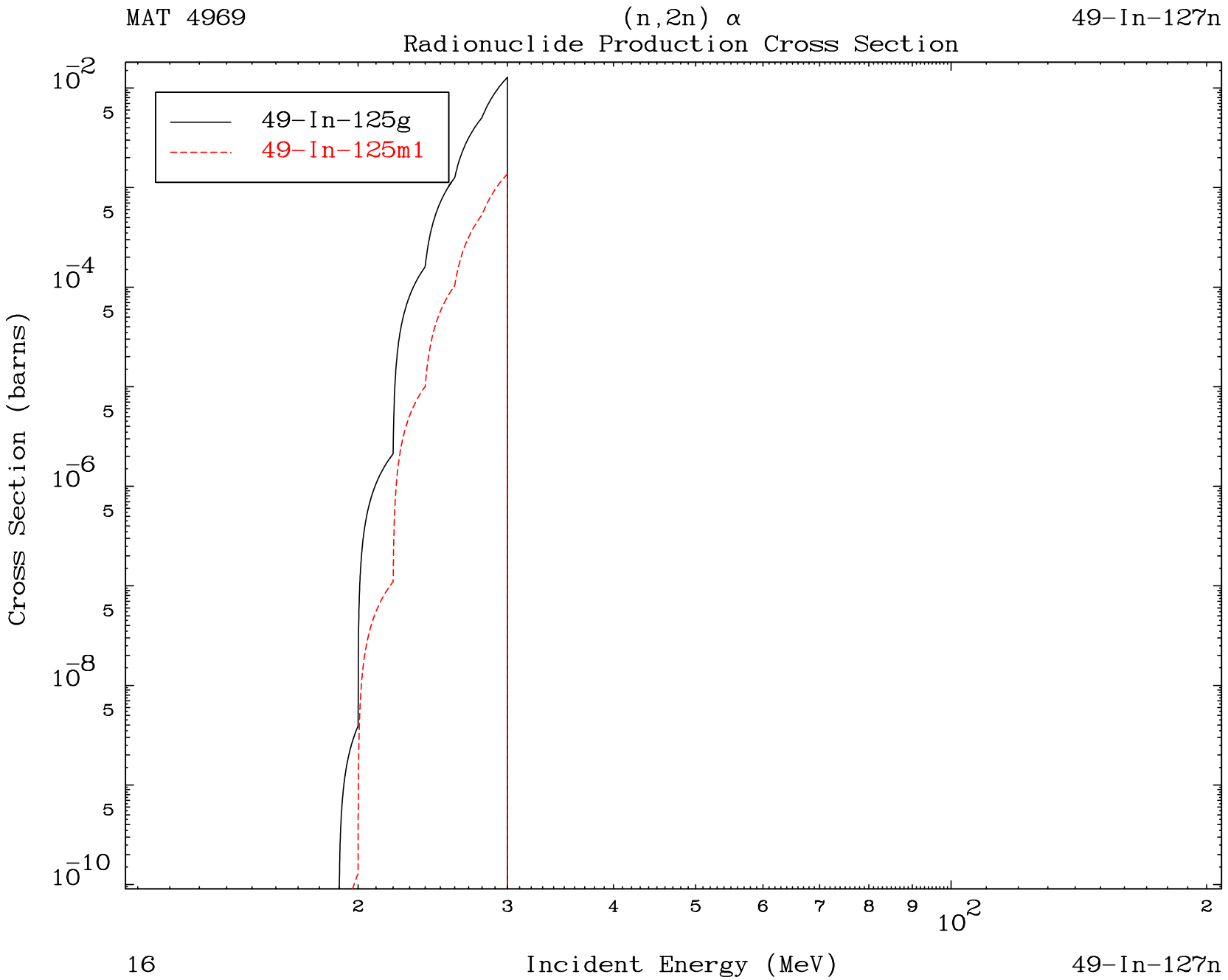

MAT 4969
Inelastic
49-In-127n
Radionuclide Production Cross Section
51-Sb-130g
51-Sb-130m1
Cross Section (barns)
Incident Energy (MeV)
11
49-In-127n

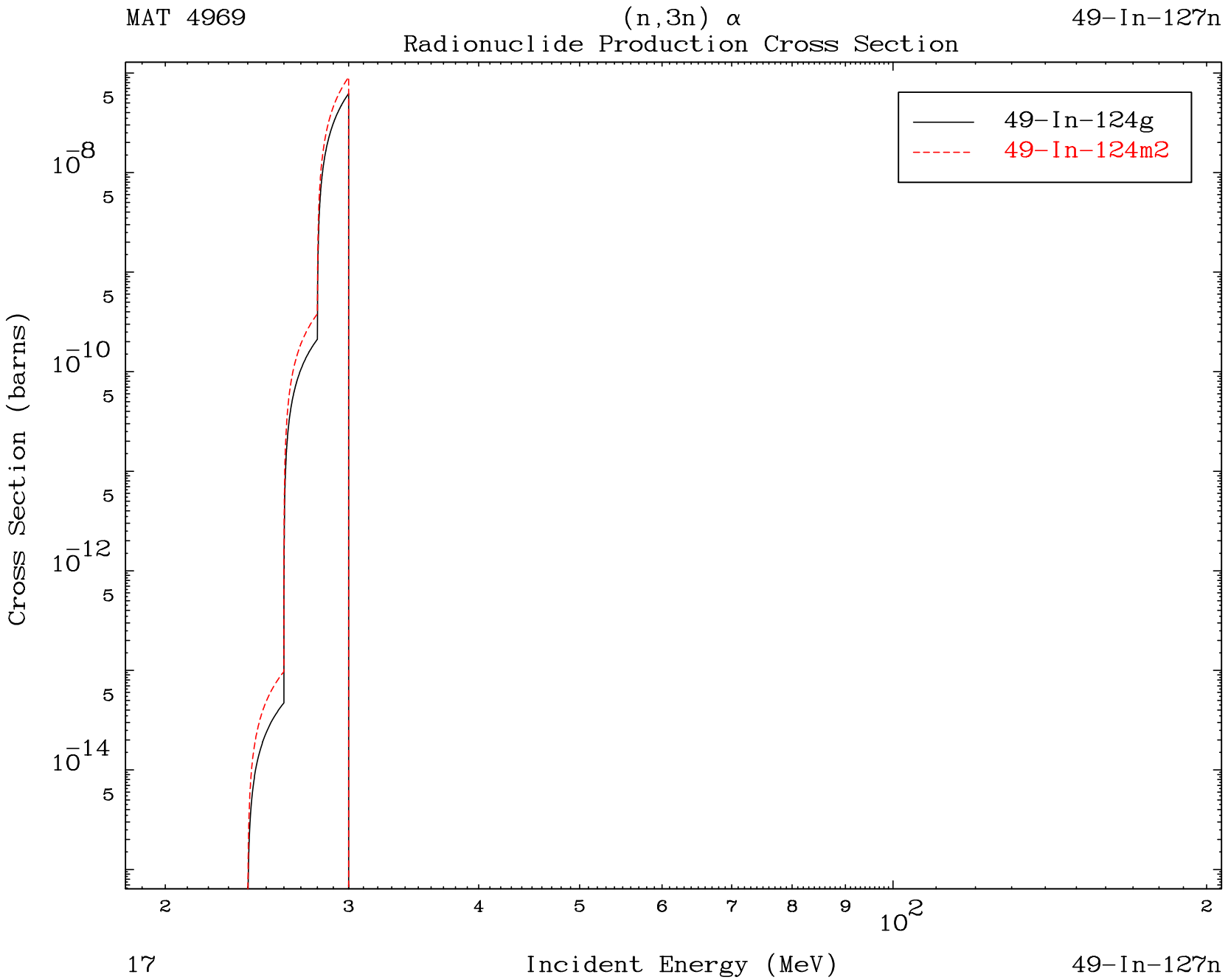

MAT 4969
(n,2n) d
49-In-127n
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
Incident Energy (MeV)
12
49-In-127n

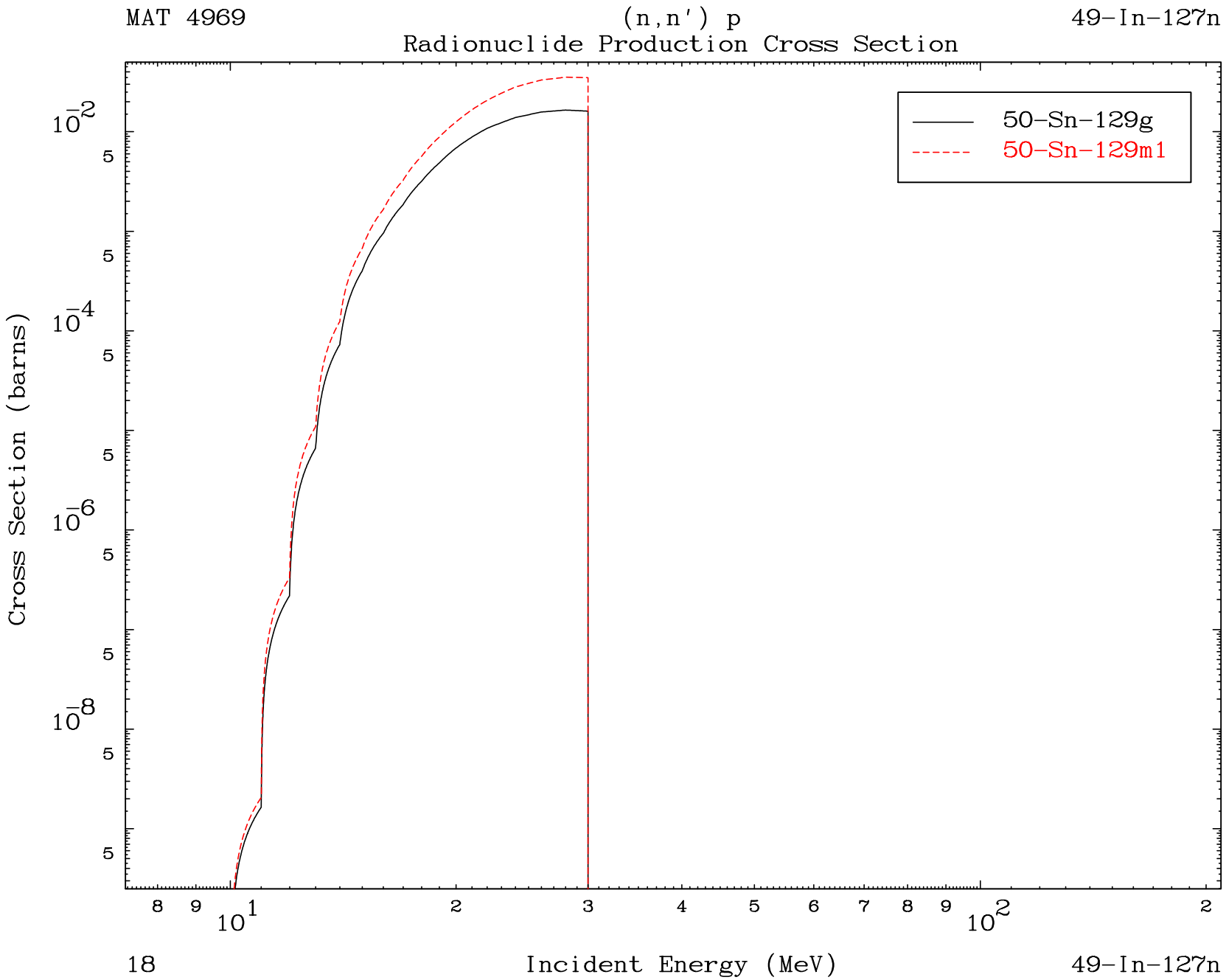

MAT 4969
(n,2n)
49-In-127n
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
Incident Energy (MeV)
13
49-In-127n

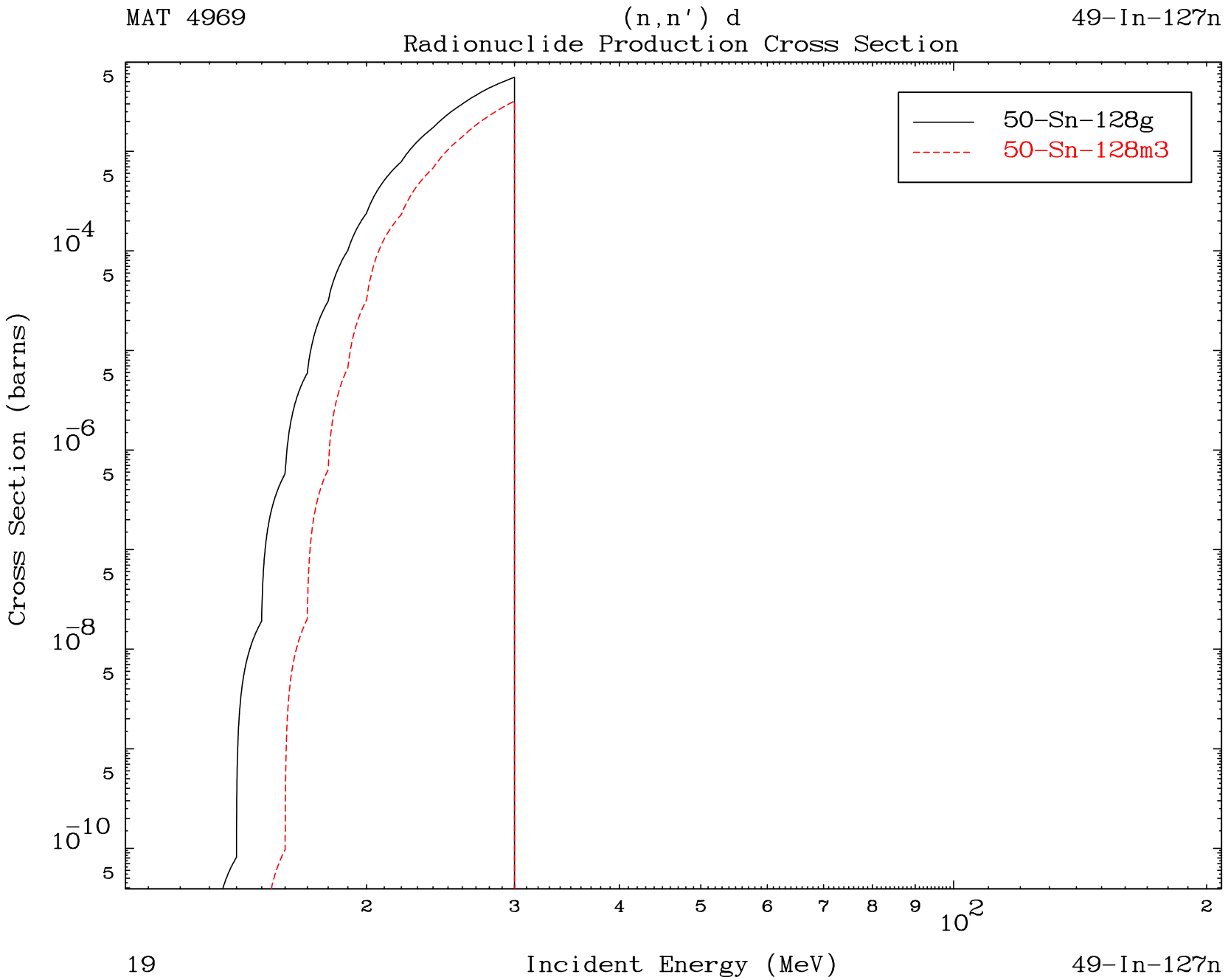

MAT 4969
(n,3n)
49-In-127n
Radionuclide Production Cross Section
Cross Section (barns)
5
10-1
5
10-2
5
10-3
5
10-4
5
10-5
5
10-6
2
3
4
5
6
7
8
9
10 2
2
51-Sb-128g
51-Sb-128m1
14
Incident Energy (MeV)
49-In-127n

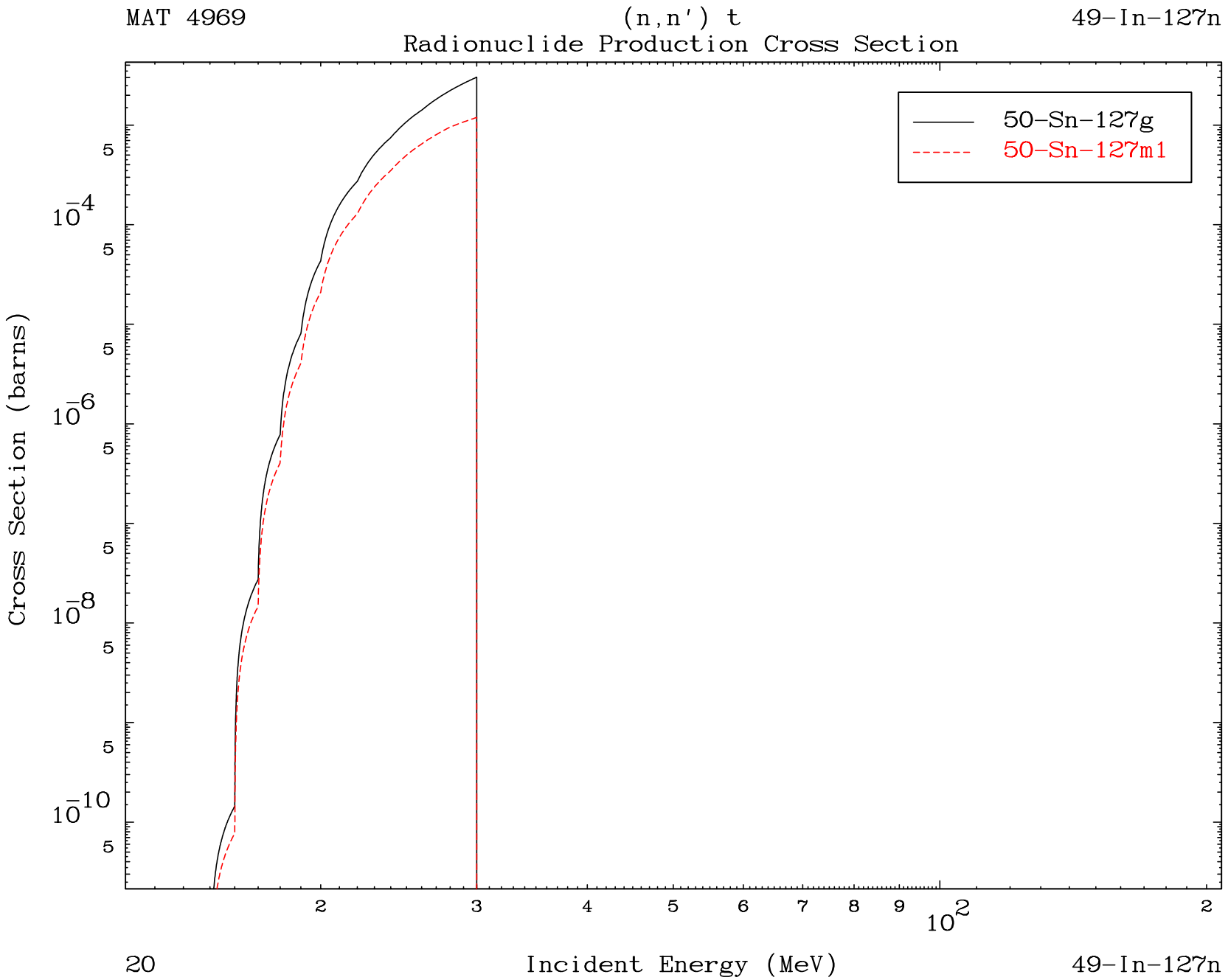

MAT 4969
(n,n') α
49-In-127n
Radionuclide Production Cross Section
49-In-126g
49-In-126m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^1
10^2
Incident Energy (MeV)
15
49-In-127n

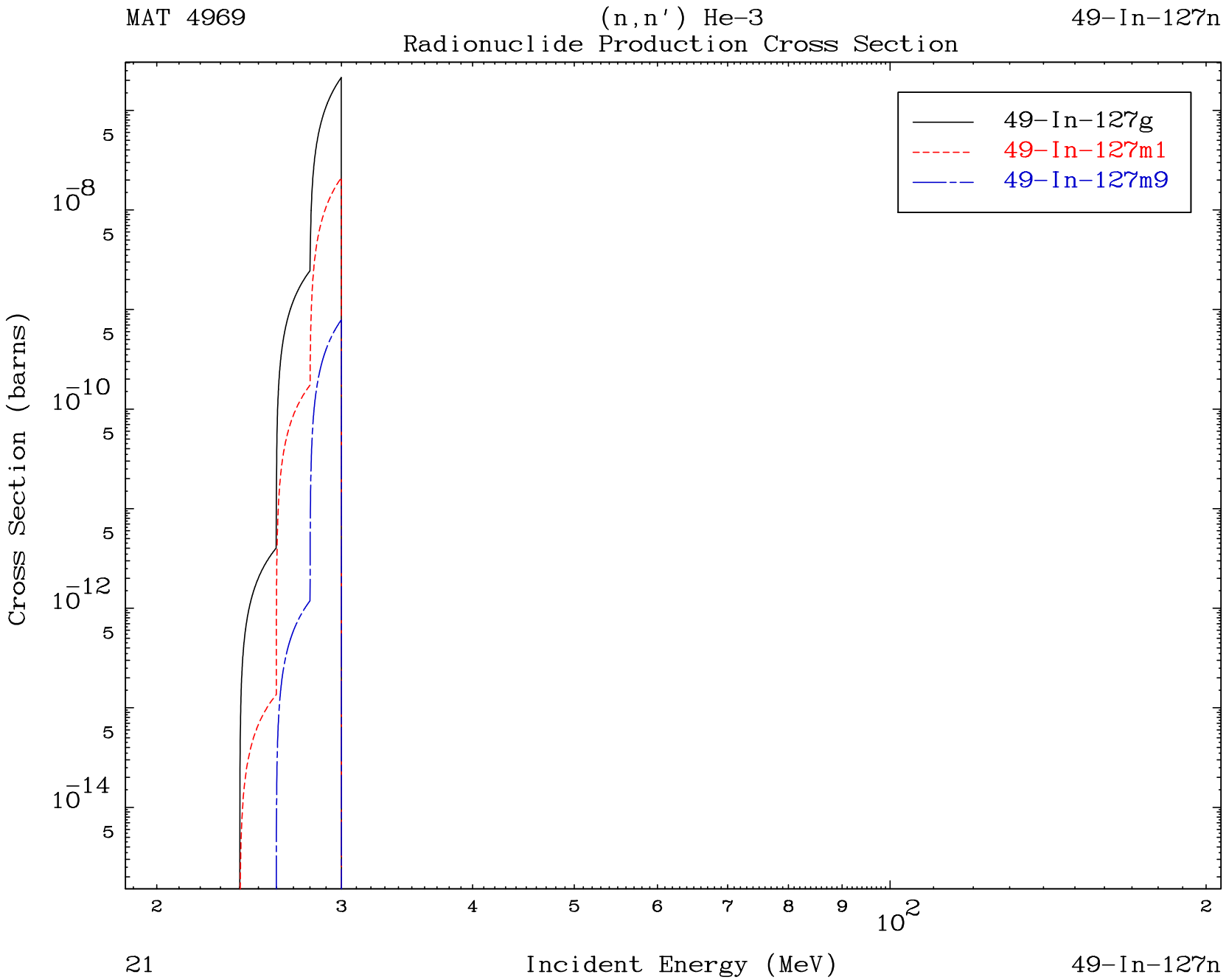

MAT 4969
(n,2n) α
49-In-127n
Radionuclide Production Cross Section
49-In-125g
49-In-125m1
Cross Section (barns)
Incident Energy (MeV)
16
49-In-127n

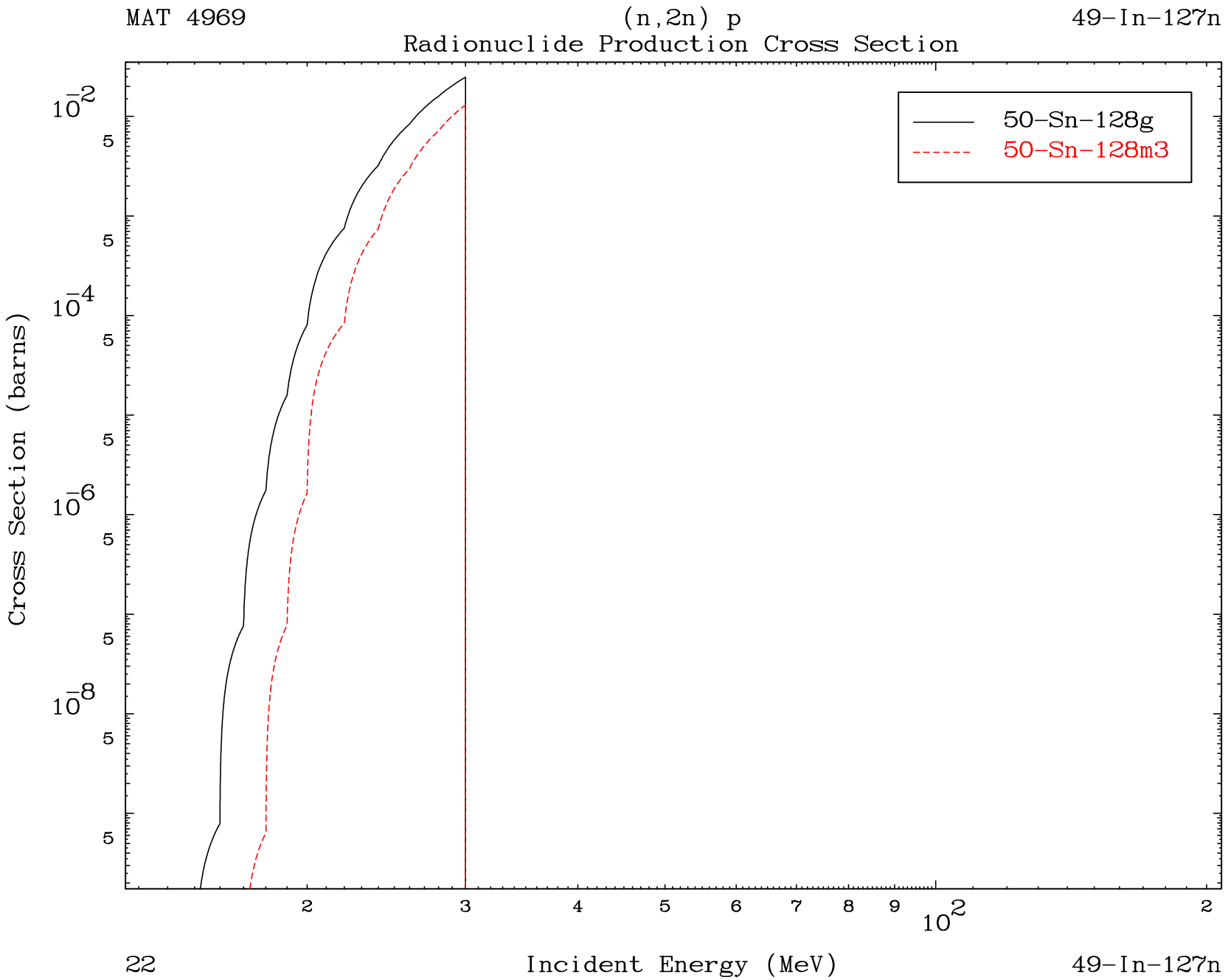

MAT 4969
(n,3n) α
49-In-127n
Radionuclide Production Cross Section
49-In-124g
49-In-124m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
49-In-127n

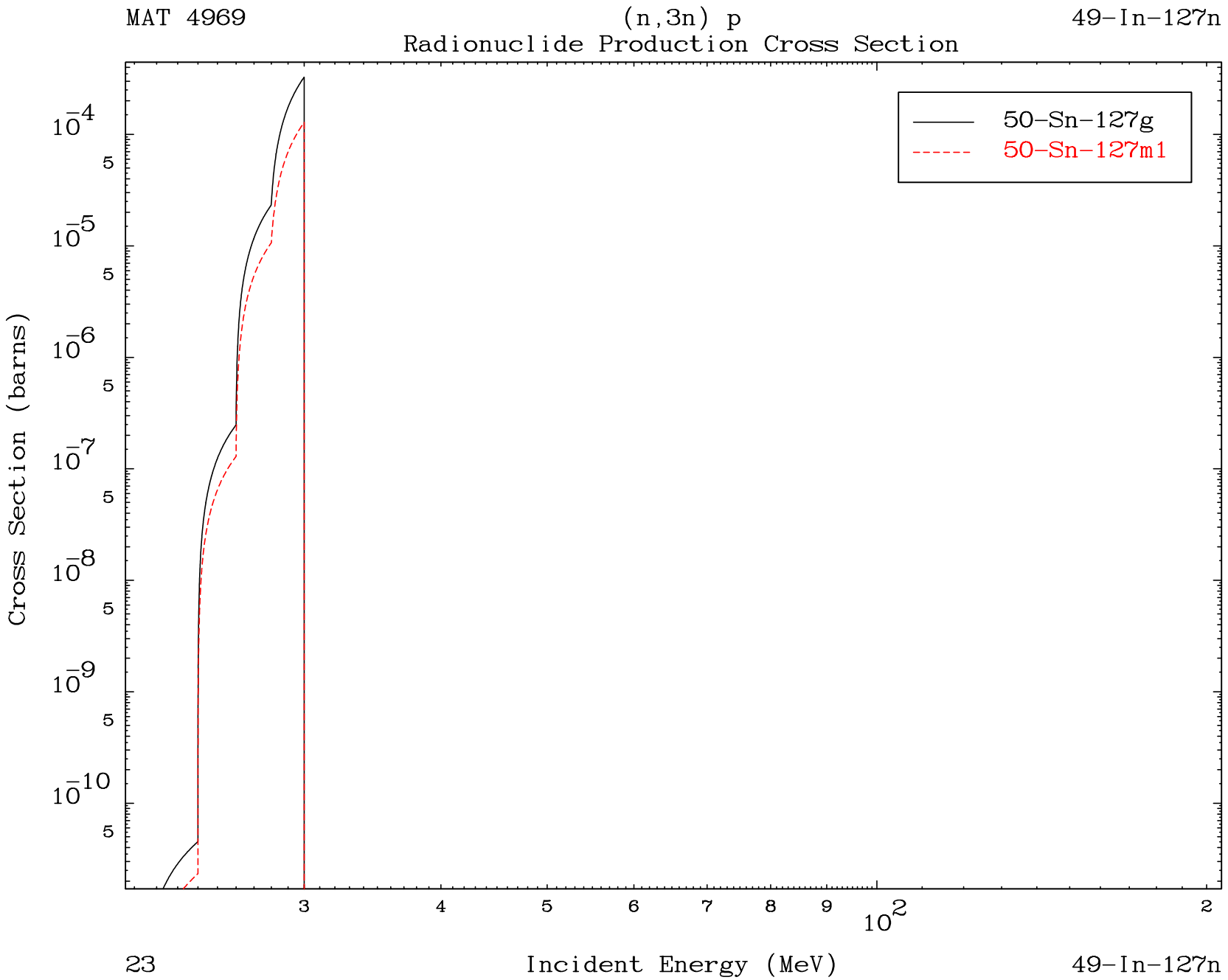

MAT 4969
(n,n') p
49-In-127n
Radionuclide Production Cross Section
50-Sn-129g
50-Sn-129m1
Cross Section (barns)
Incident Energy (MeV)
18
49-In-127n

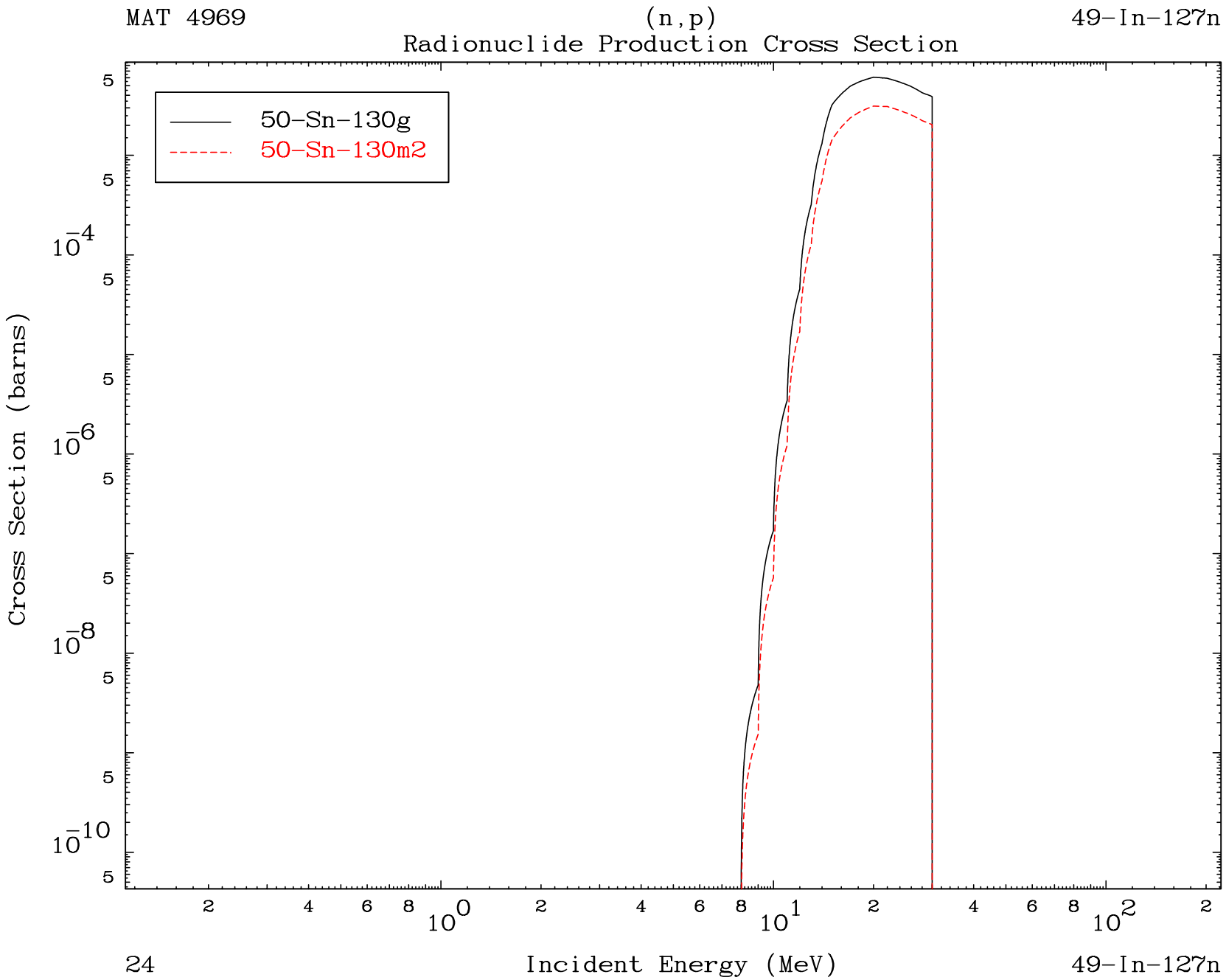

MAT 4969
(n,n') d
49-In-127n
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
Incident Energy (MeV)
19
49-In-127n

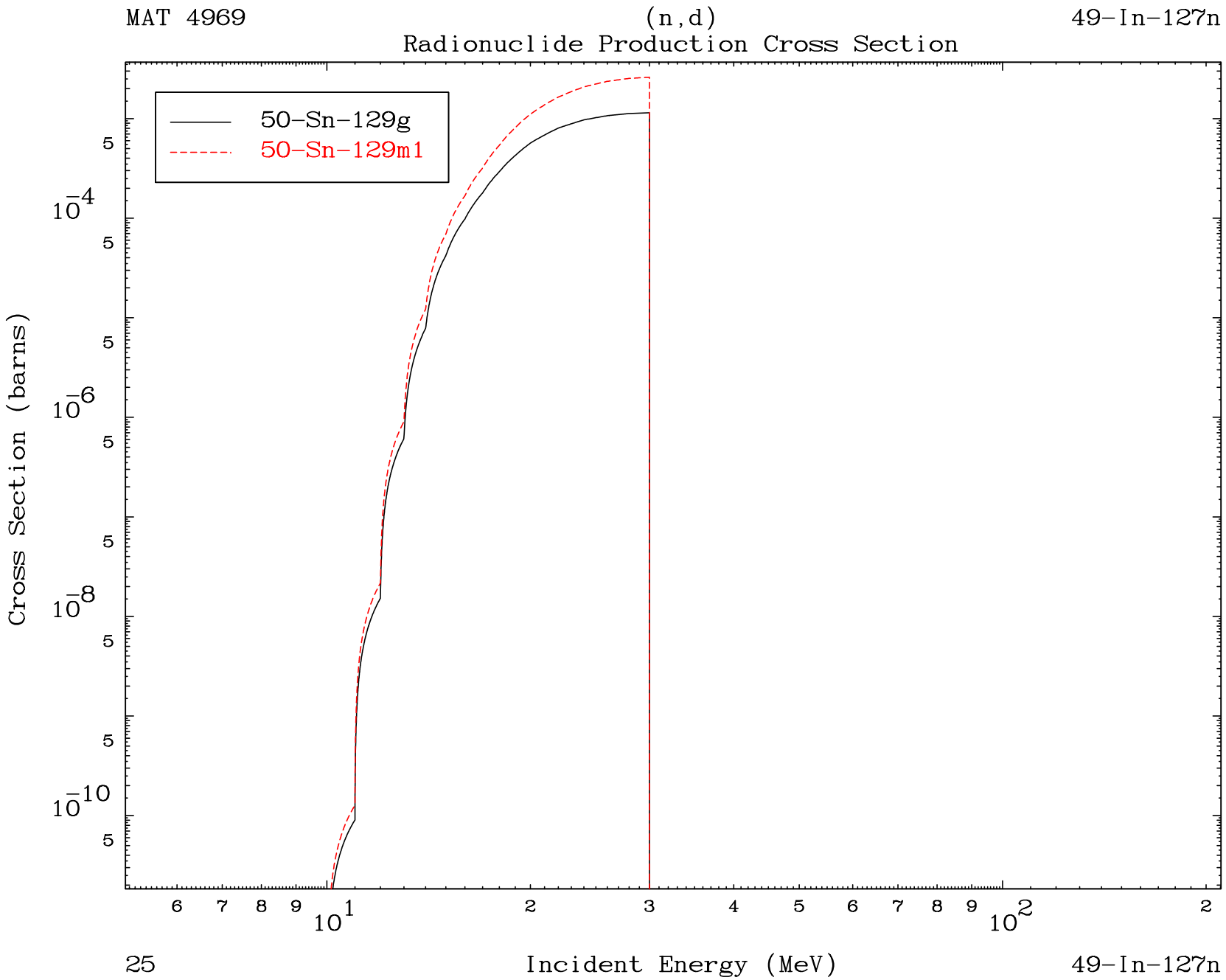

MAT 4969
(n,n') t
49-In-127n
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
49-In-127n

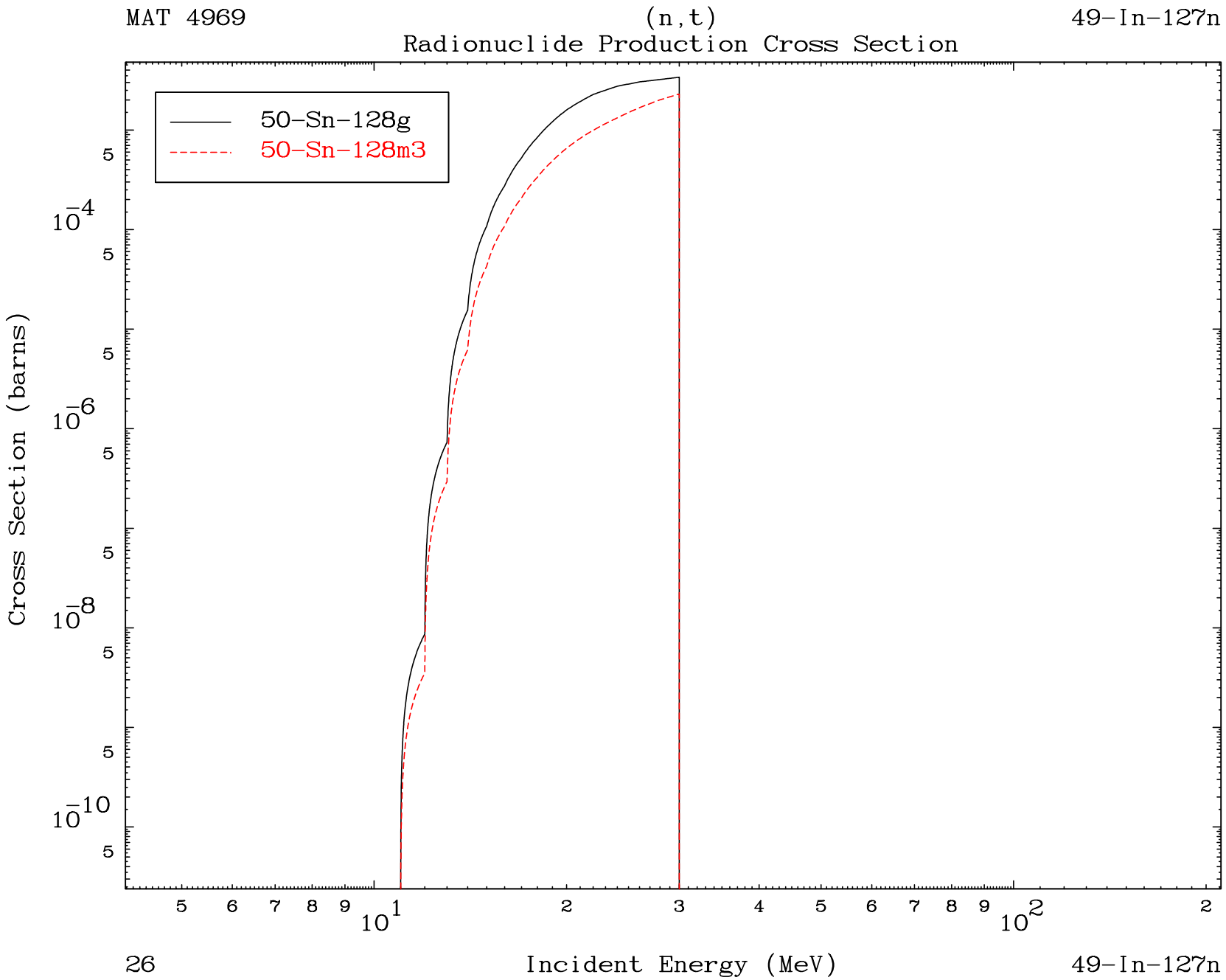

MAT 4969
(n,n') He-3
49-In-127n
Radionuclide Production Cross Section
49-In-127g
49-In-127m1
49-In-127m9
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
49-In-127n

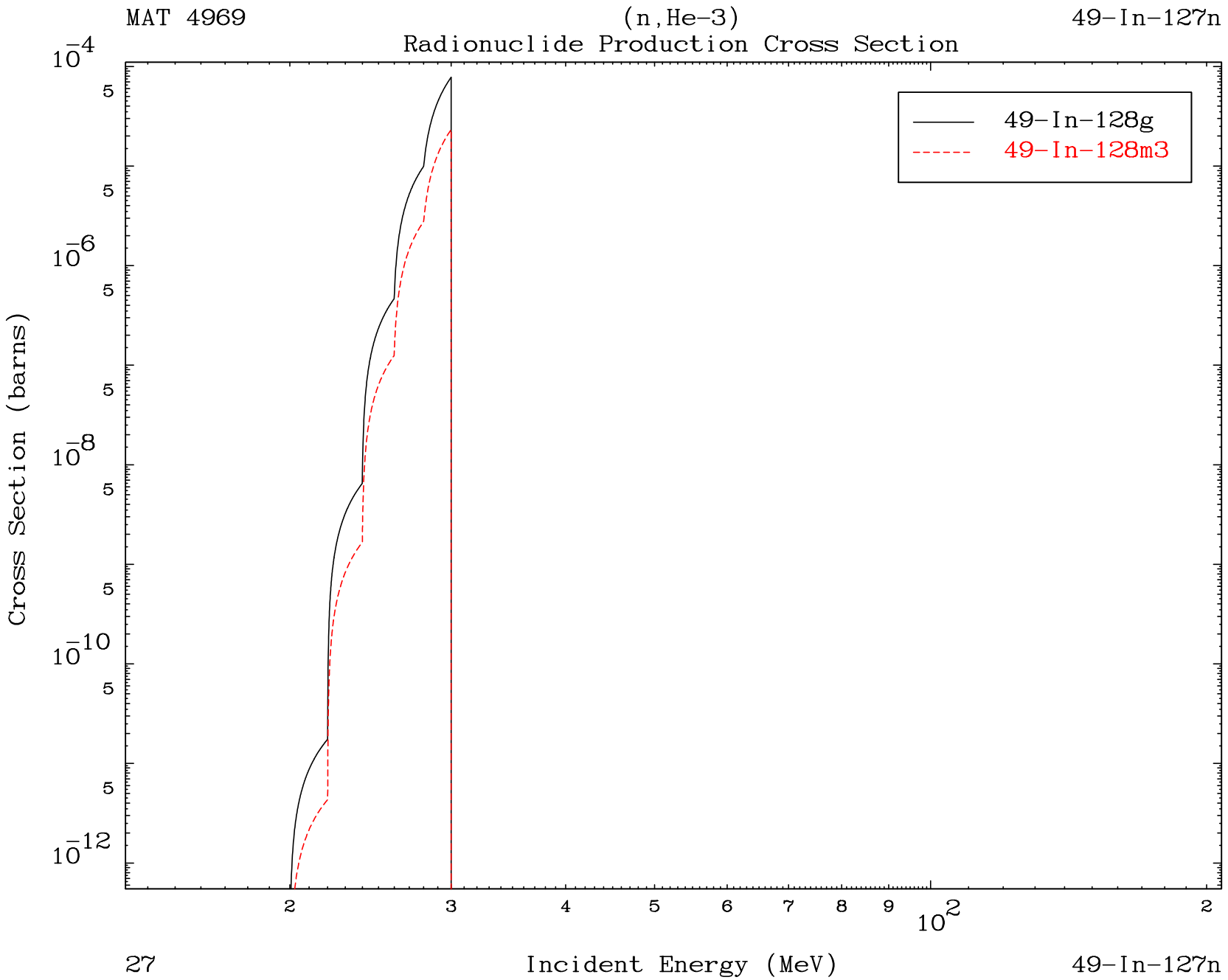

MAT 4969
(n,2n) p
49-In-127n
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
22
Incident Energy (MeV)
49-In-127n

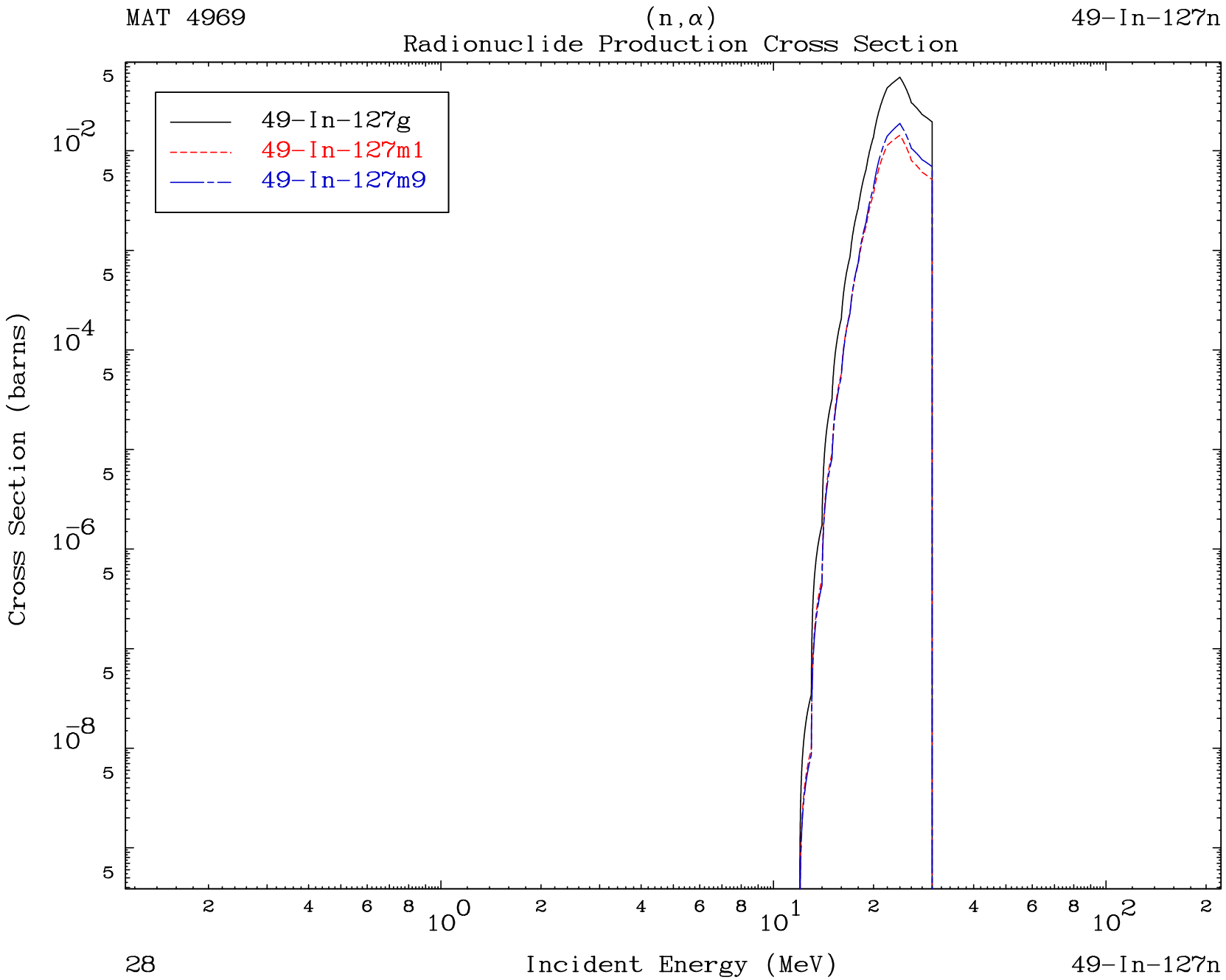

MAT 4969
(n,3n) p
49-In-127n
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
Incident Energy (MeV)
23
49-In-127n

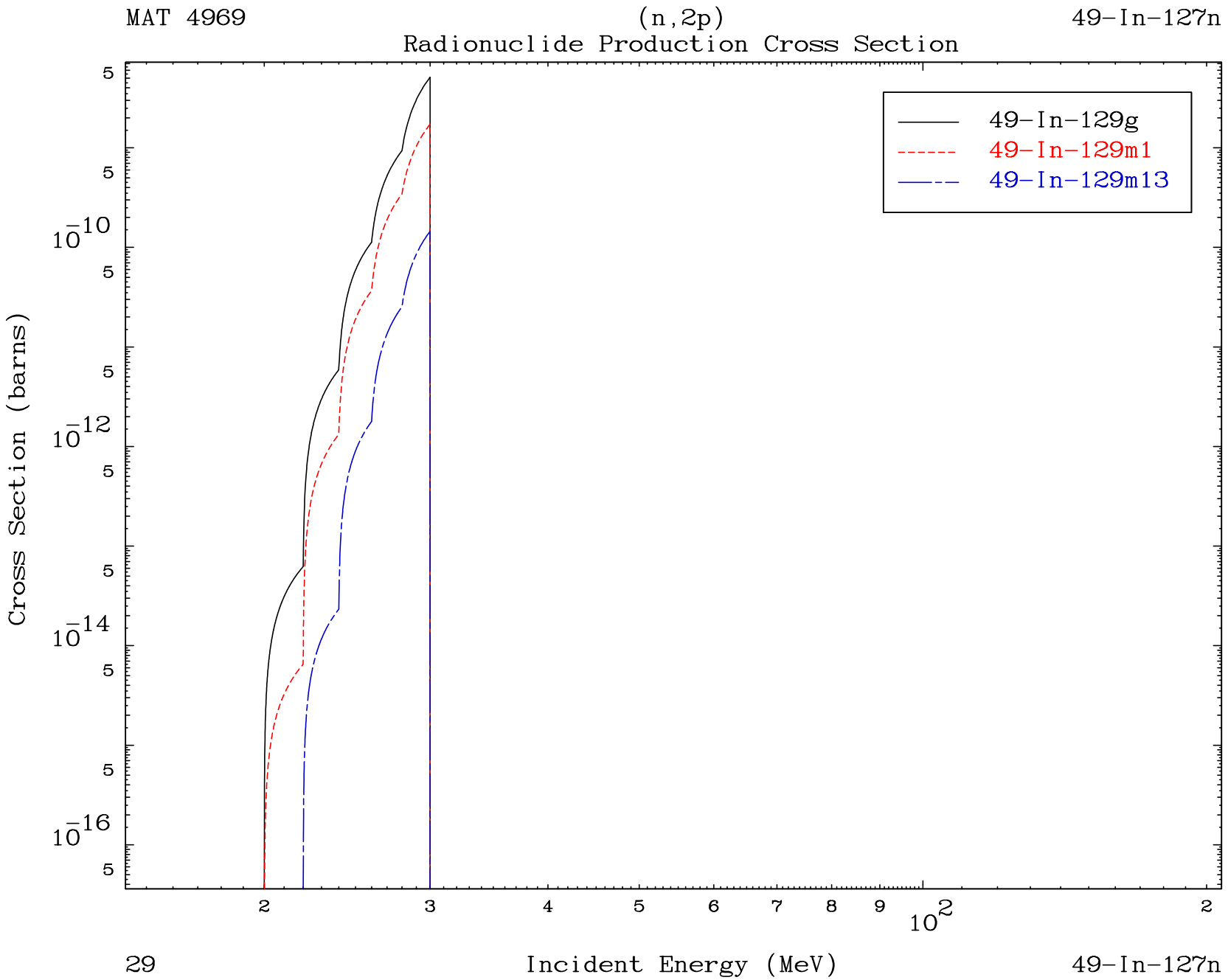

MAT 4969
(n,p)
49-In-127n
Radionuclide Production Cross Section
50-Sn-130g
50-Sn-130m2
Cross Section (barns)
Incident Energy (MeV)
24
49-In-127n


MAT 4969
(n,d)
49-In-127n
Radionuclide Production Cross Section
50-Sn-129g
50-Sn-129m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
25
49-In-127n


MAT 4969
(n,t)
49-In-127n
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
Incident Energy (MeV)
26
49-In-127n


MAT 4969
(n,He-3)
49-In-127n
Radionuclide Production Cross Section
49-In-128g
49-In-128m3
Cross Section (barns)
Incident Energy (MeV)
27
49-In-127n


MAT 4969
(n,α)
49-In-127n
Radionuclide Production Cross Section
49-In-127g
49-In-127m1
49-In-127m9
Cross Section (barns)
Incident Energy (MeV)
28
49-In-127n


MAT 4969
(n,2p)
49-In-127n
Radionuclide Production Cross Section
49-In-129g
49-In-129m1
49-In-129m13
Cross Section (barns)
Incident Energy (MeV)
29
49-In-127n