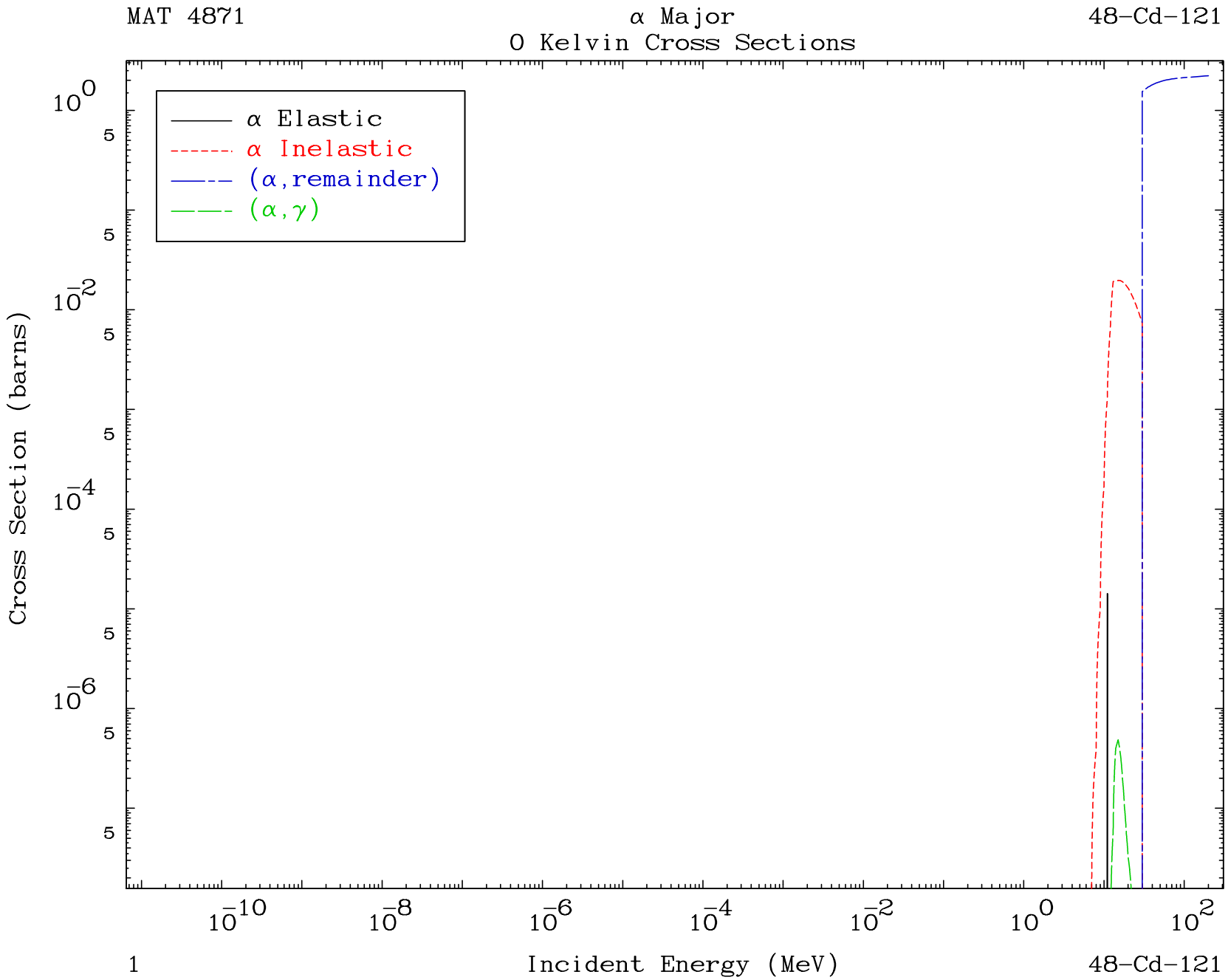
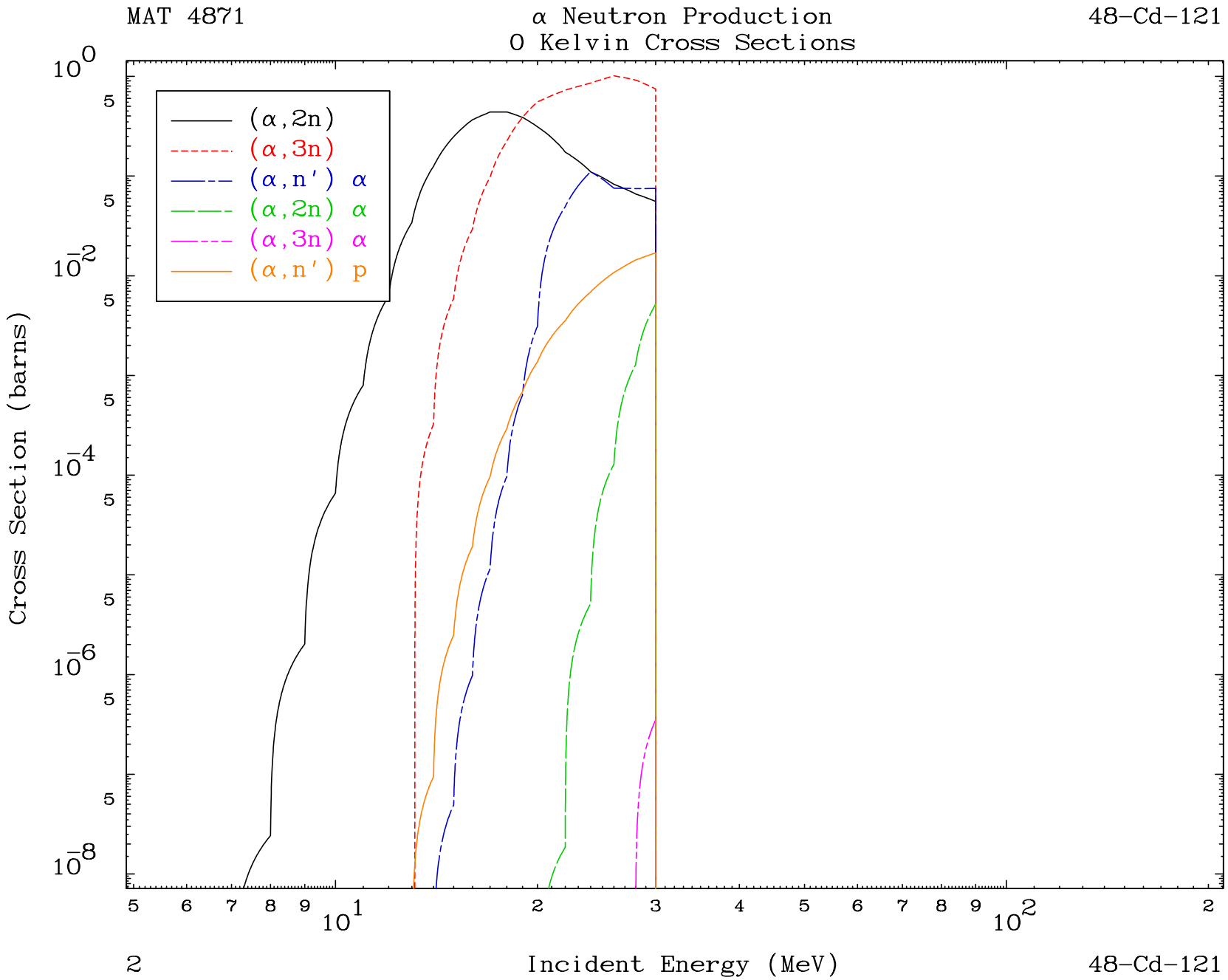
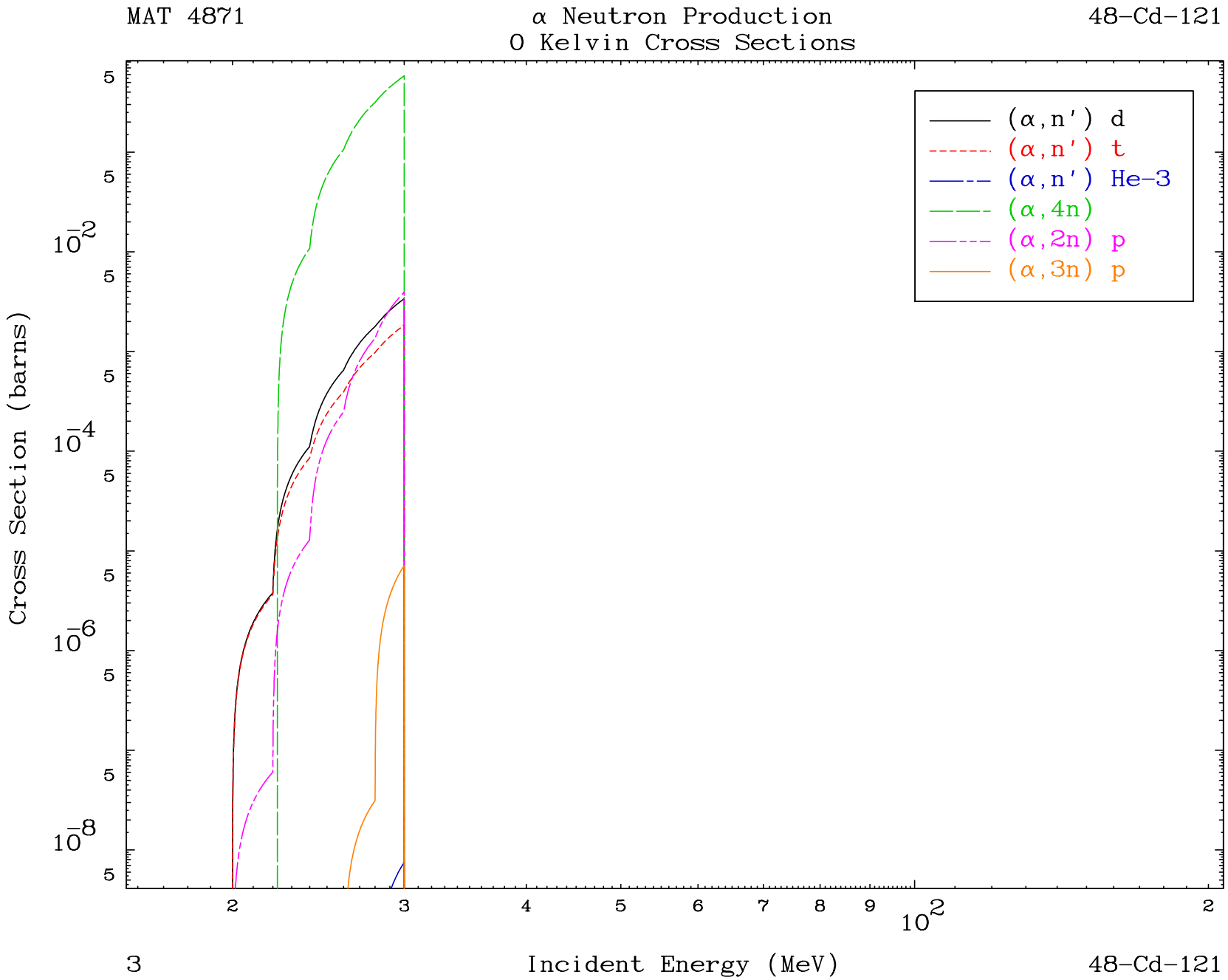
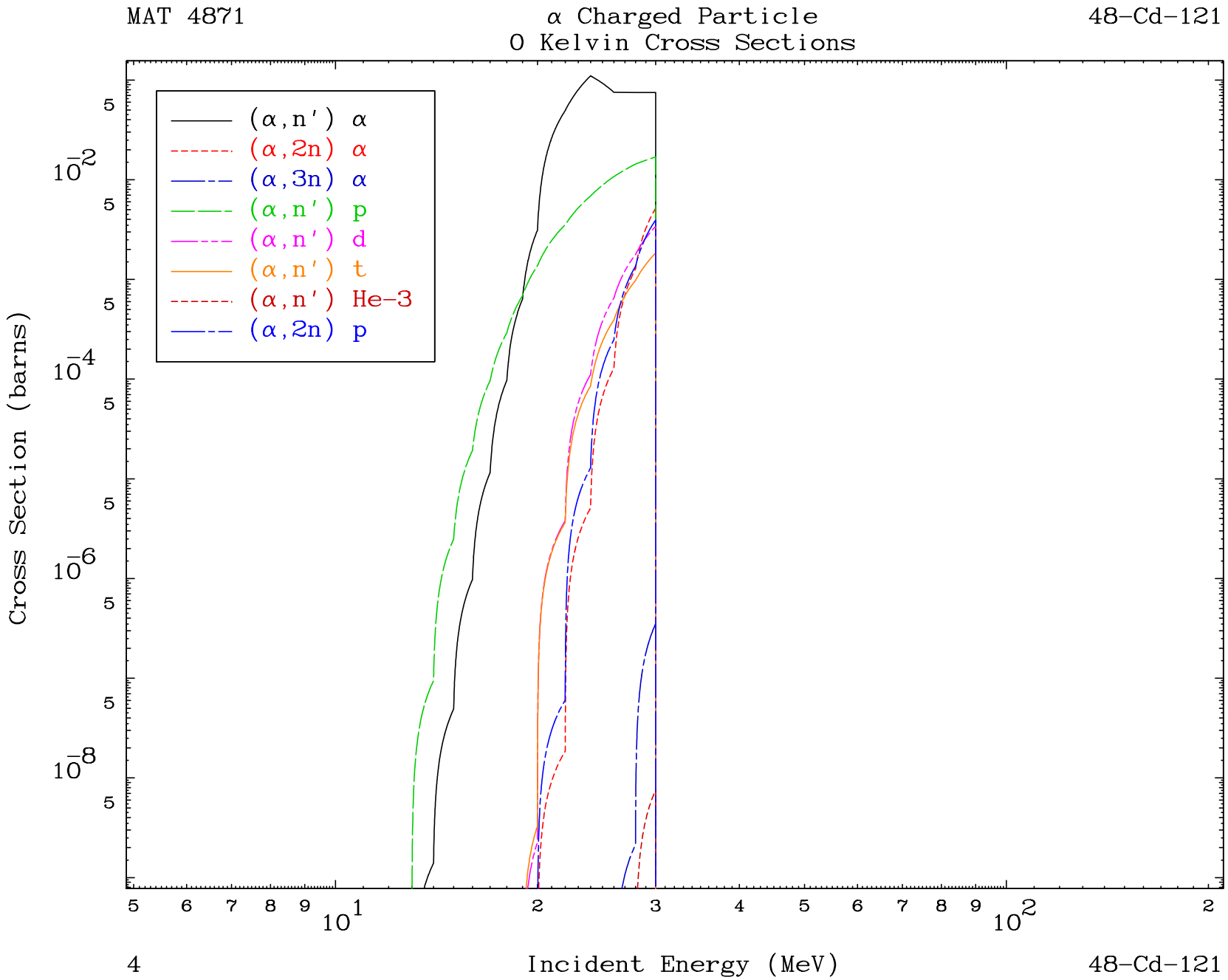
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

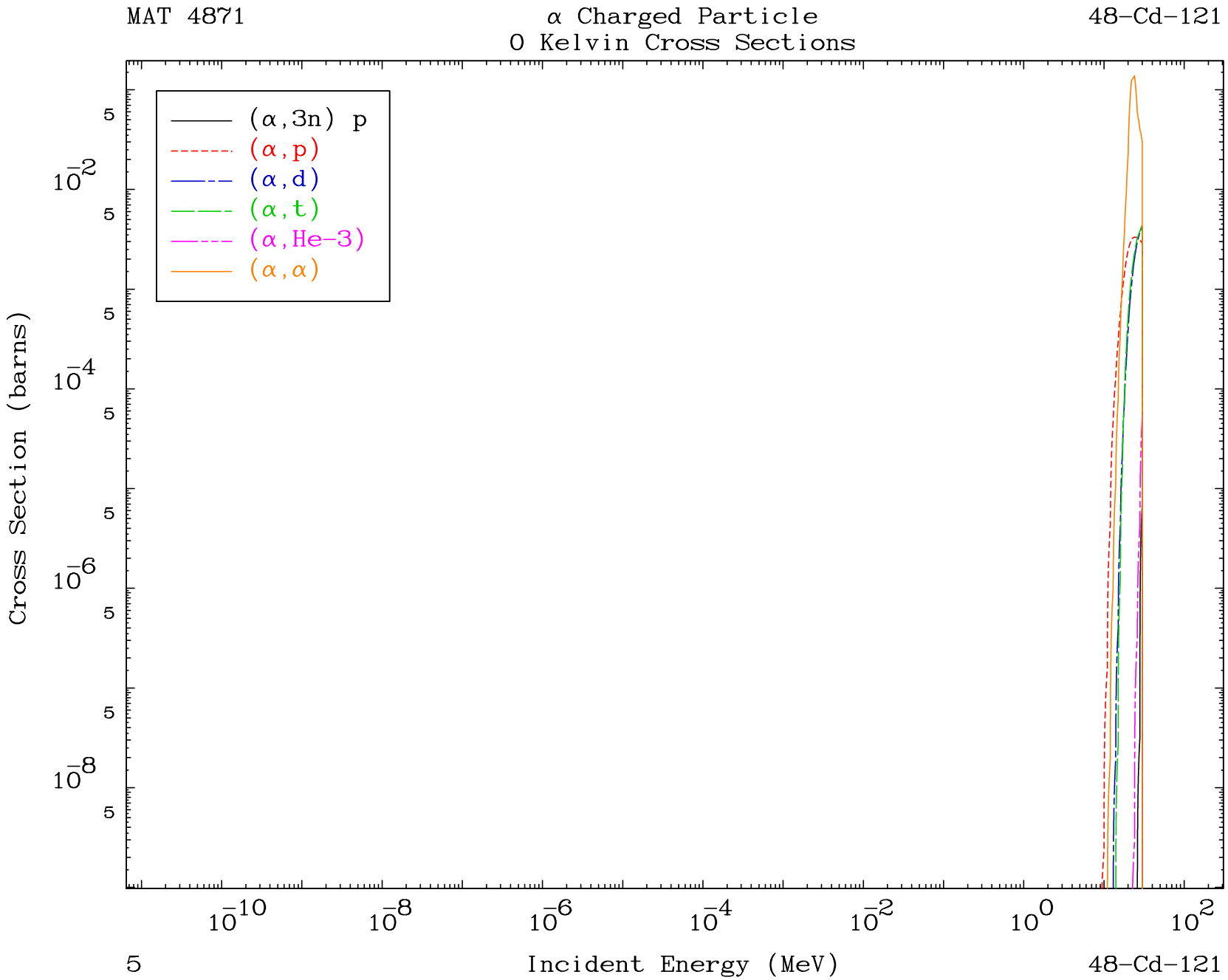
Press Mouse Button to Start

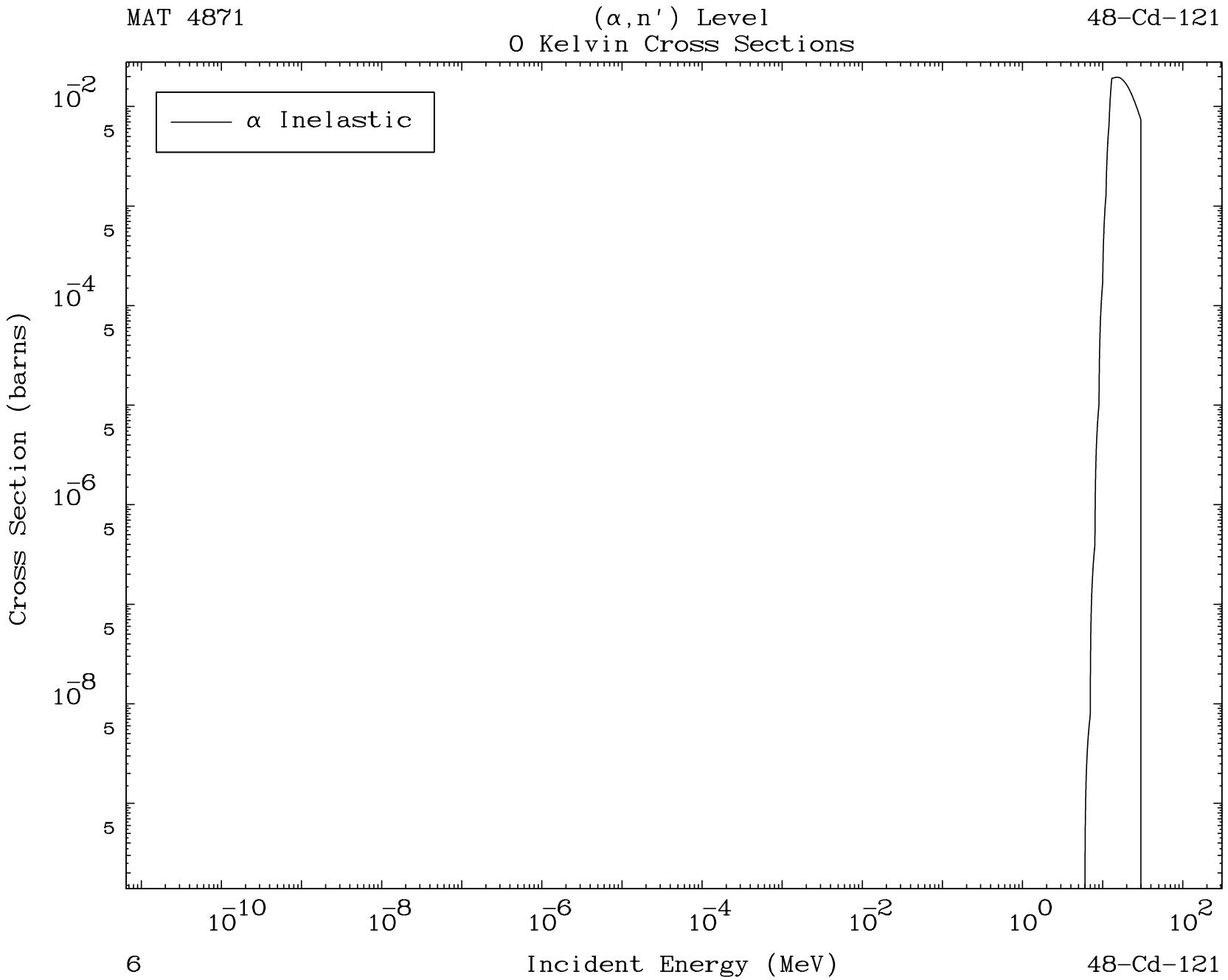

MAT 4871
α Major
48-Cd-121
0 Kelvin Cross Sections
α Elastic
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
48-Cd-121

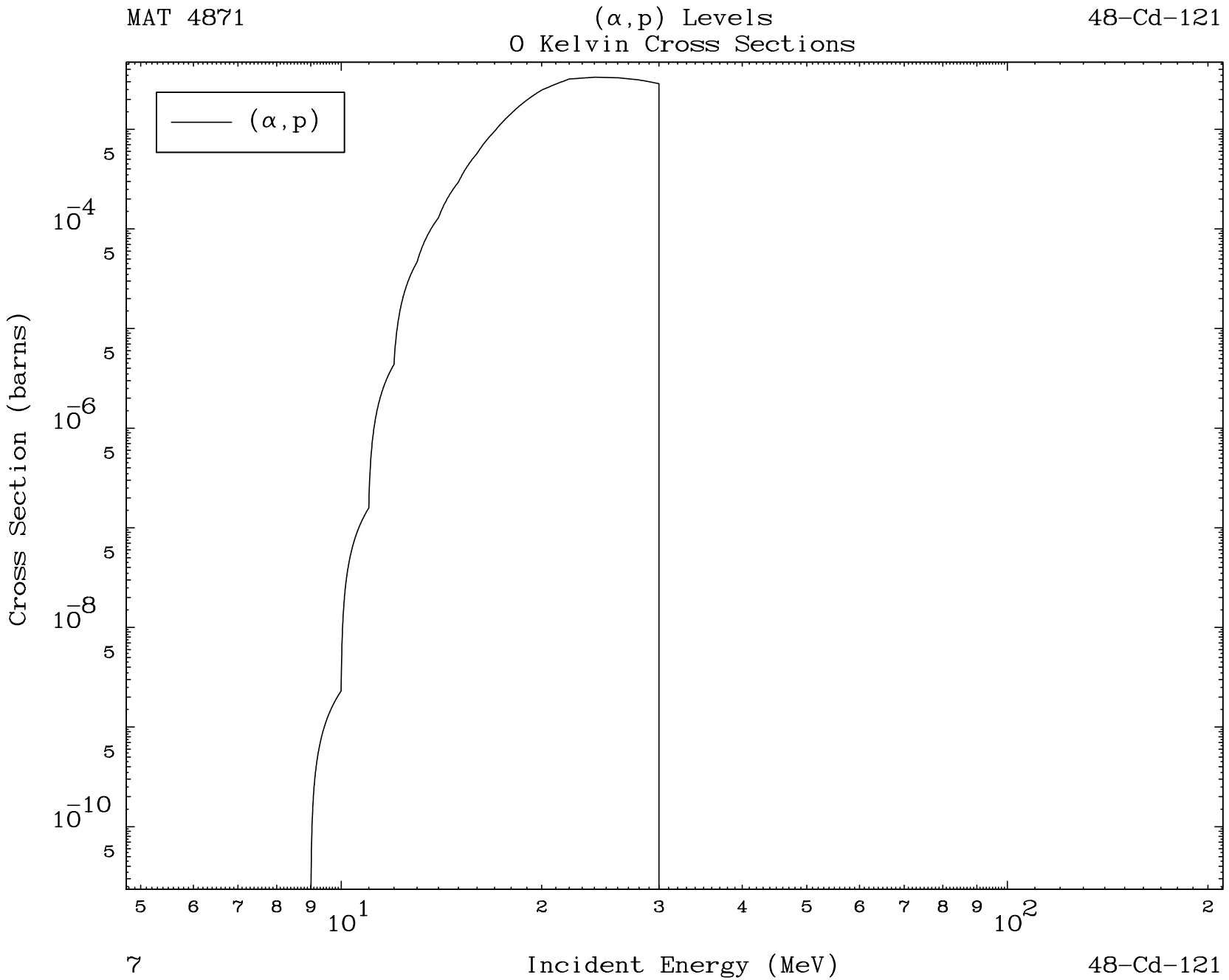

MAT 4871
α Neutron Production
0 Kelvin Cross Sections
48-Cd-121
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
Cross Section (barns)
Incident Energy (MeV)
48-Cd-121

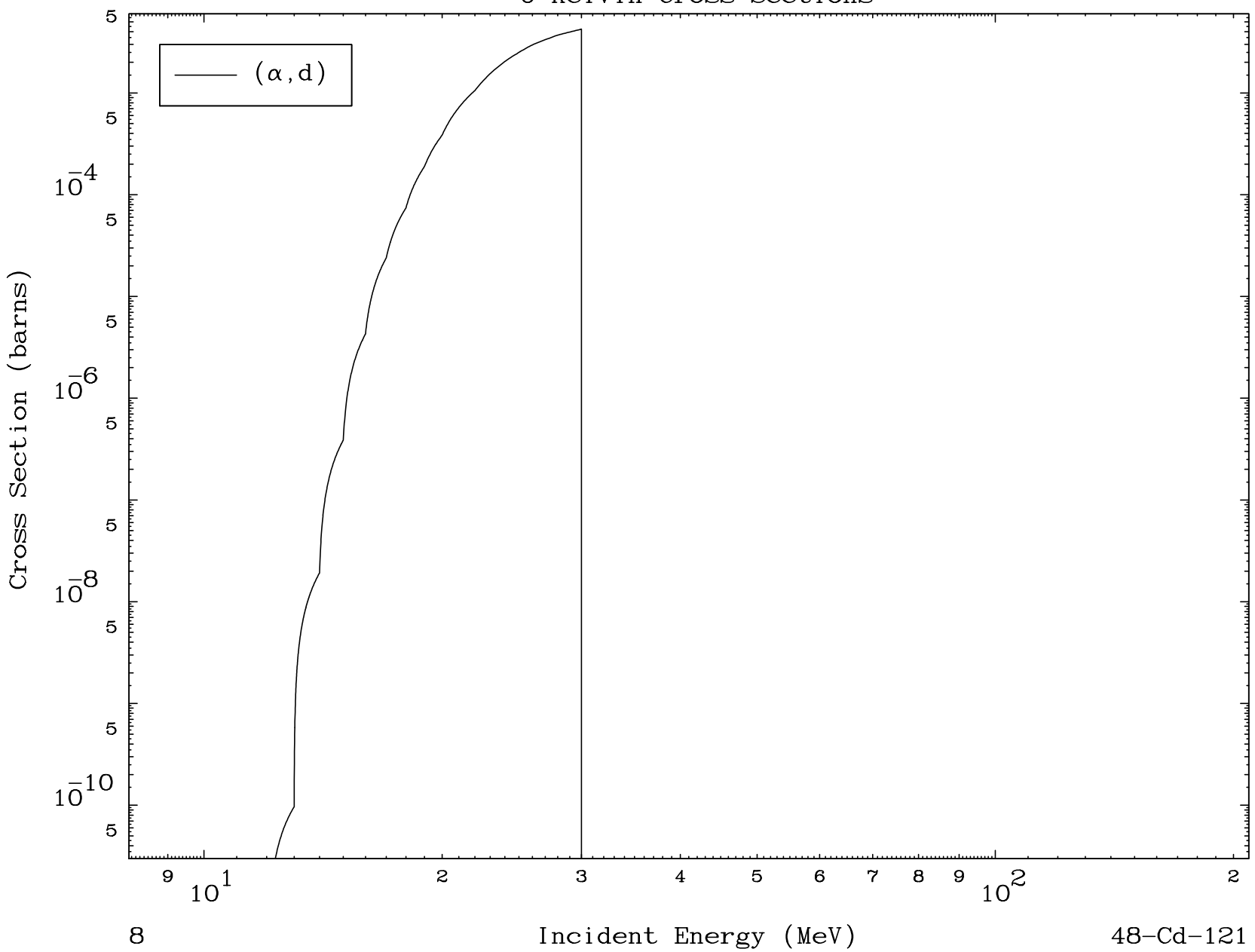

MAT 4871
α Neutron Production
0 Kelvin Cross Sections
48-Cd-121
(α,n') d
(α,n') t
(α,n') He-3
(α,4n)
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
48-Cd-121

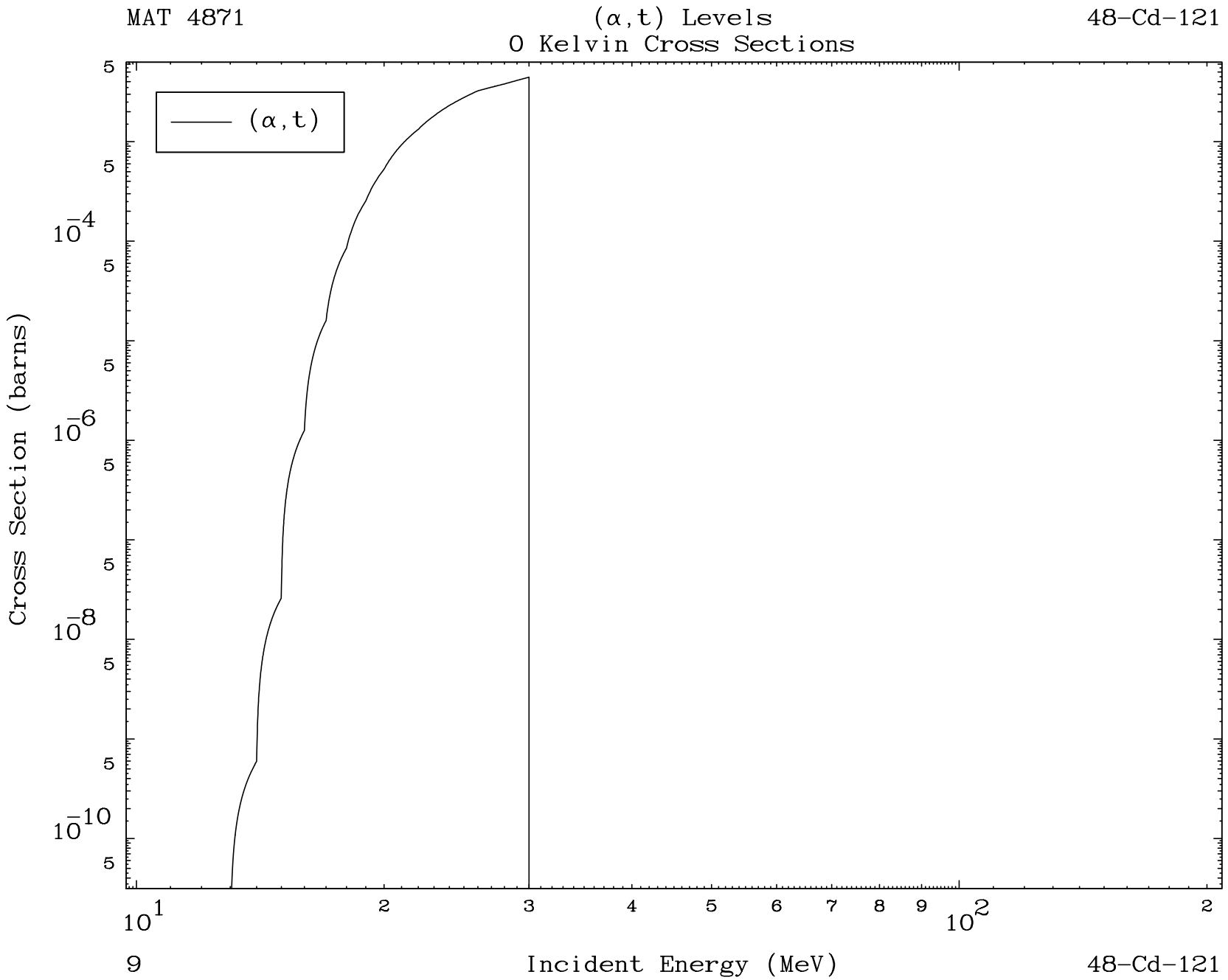

MAT 4871
α Charged Particle
0 Kelvin Cross Sections
48-Cd-121
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
48-Cd-121
4

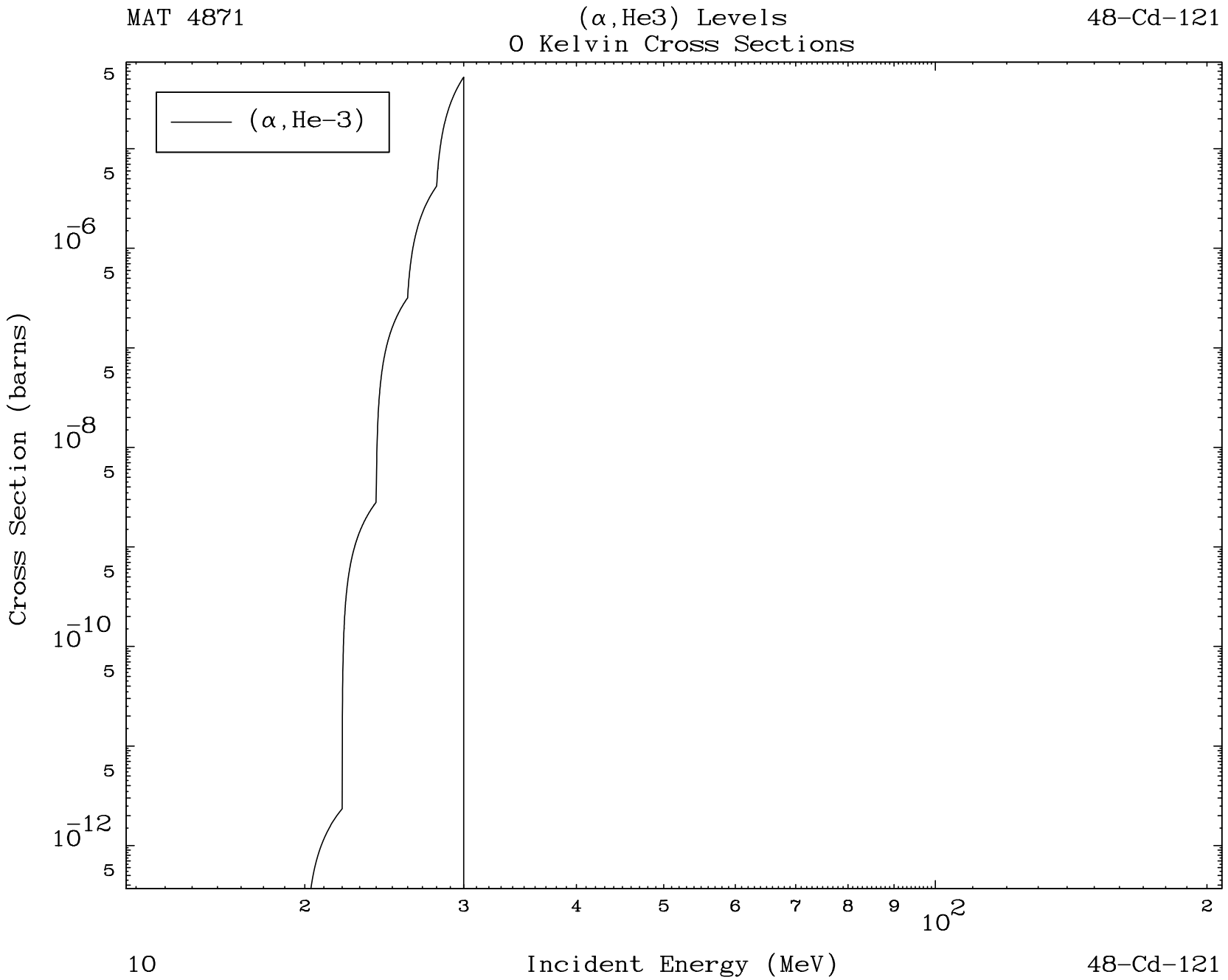

MAT 4871
α Charged Particle
0 Kelvin Cross Sections
48-Cd-121
(α,3n) p
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
Cross Section (barns)
Incident Energy (MeV)
48-Cd-121

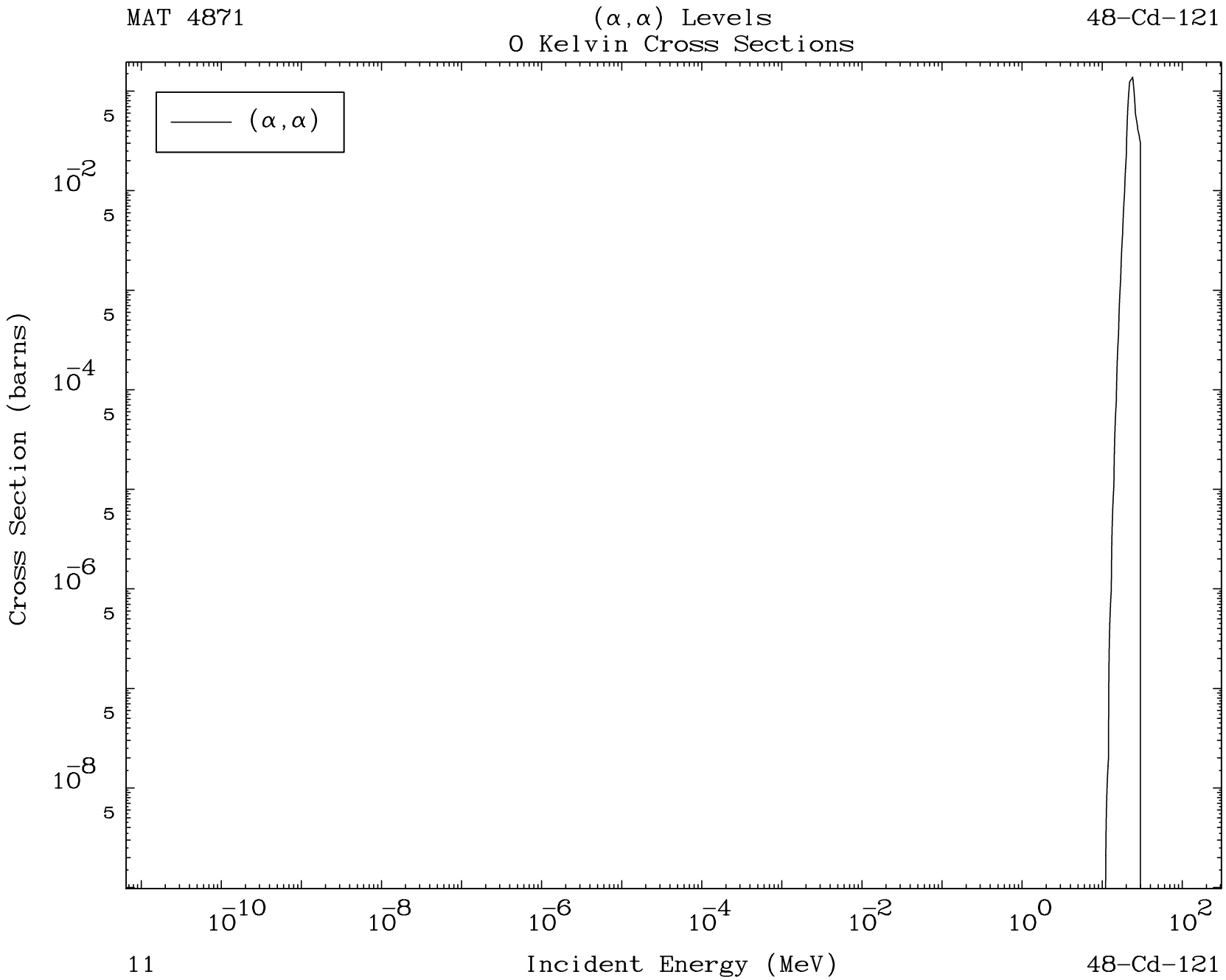

MAT 4871
(α,n') Level
48-Cd-121
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
Incident Energy (MeV)
6
48-Cd-121

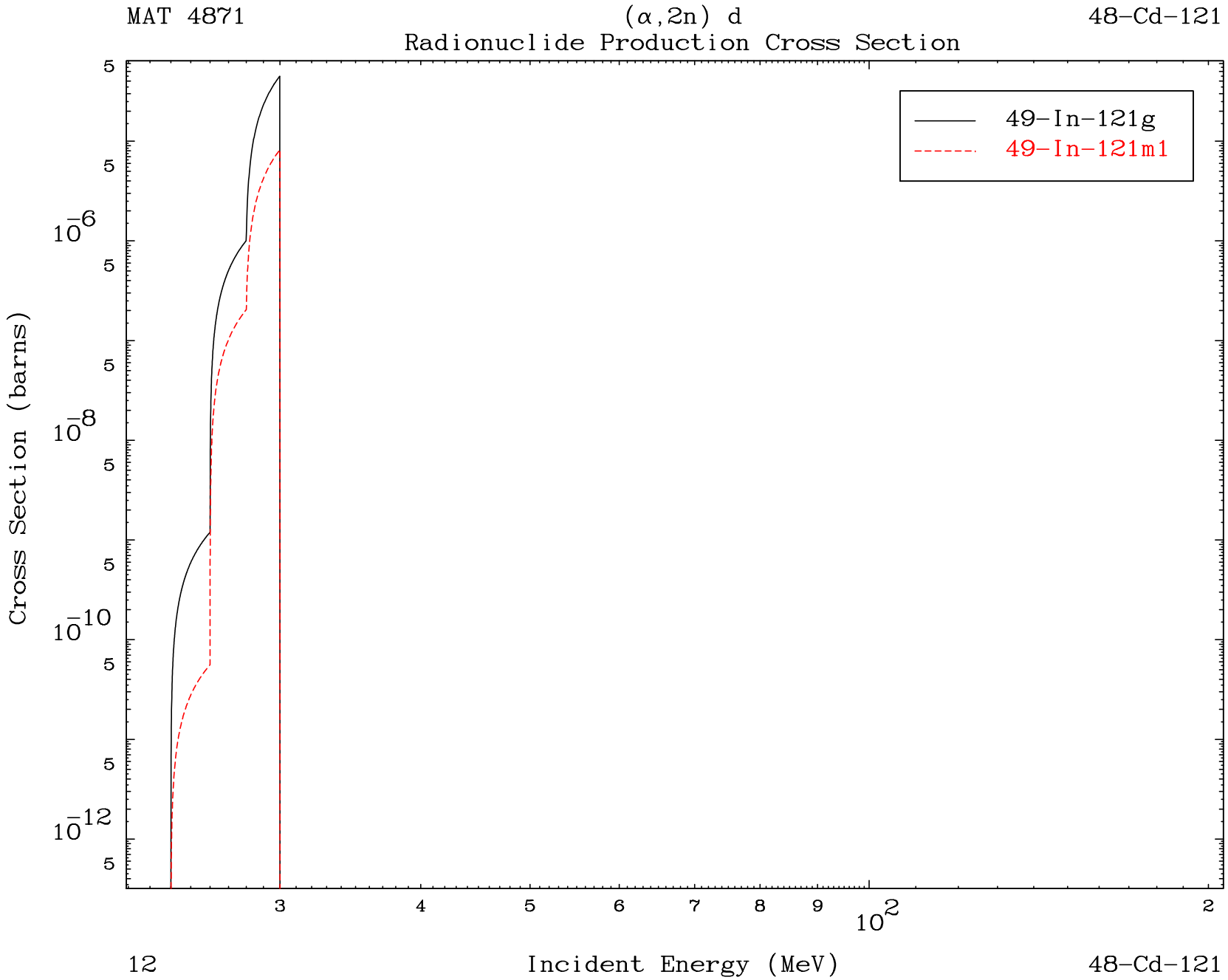

MAT 4871
(α,p) Levels
48-Cd-121
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
7
48-Cd-121

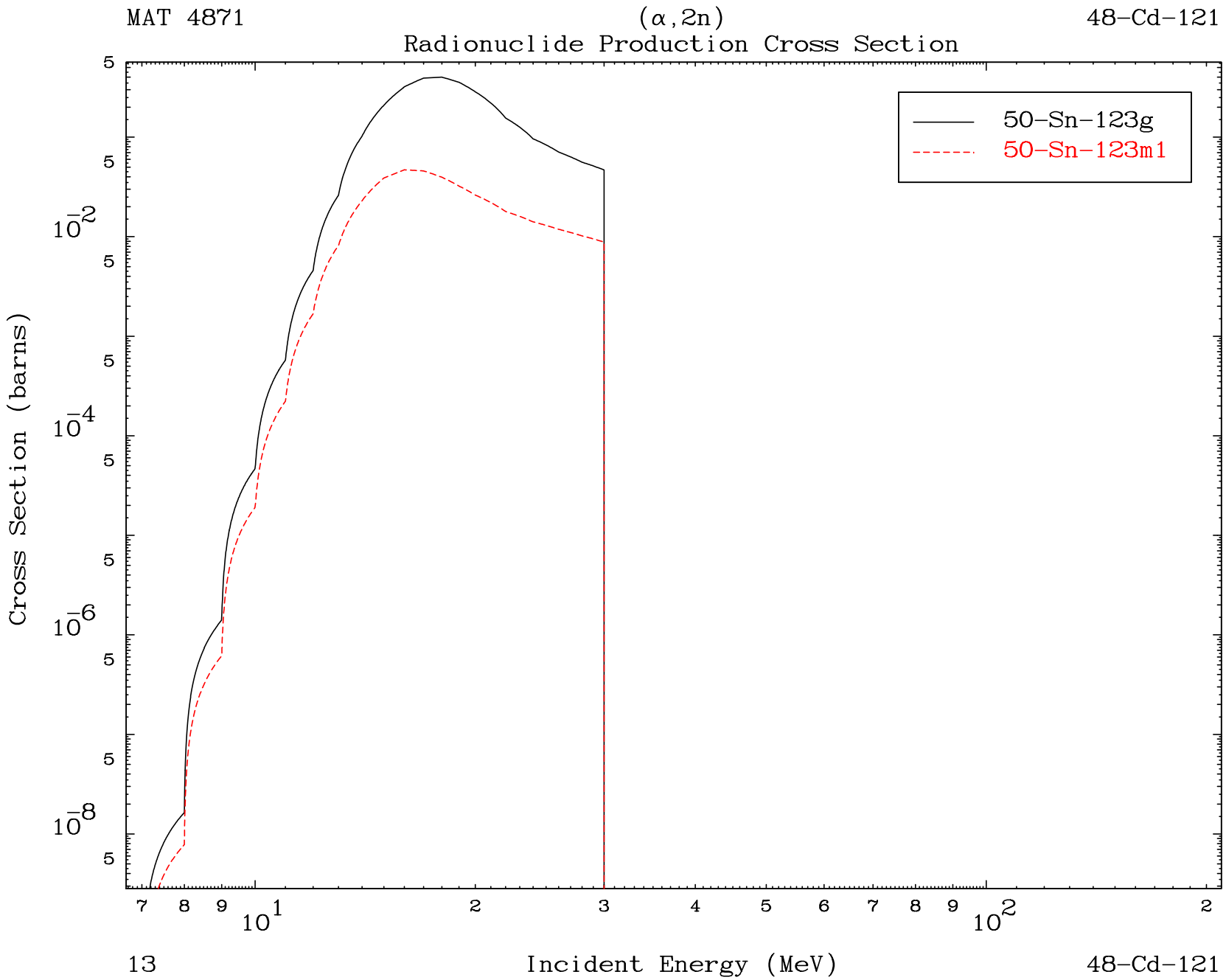

0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10⁻4
10⁻6
10⁻8
10⁻10
10¹
10²
Incident Energy (MeV)

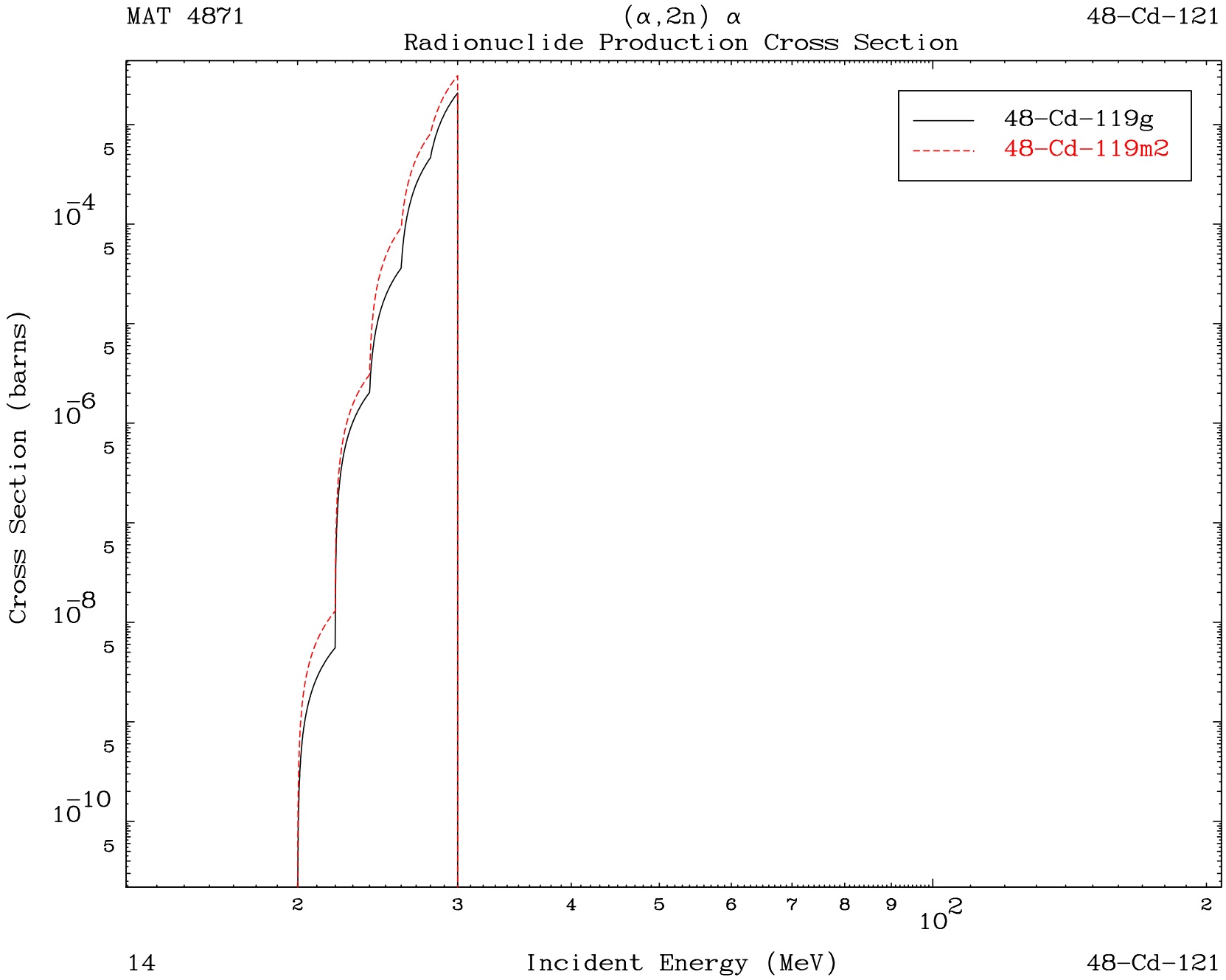

MAT 4871
(α,t) Levels
48-Cd-121
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
Incident Energy (MeV)
48-Cd-121

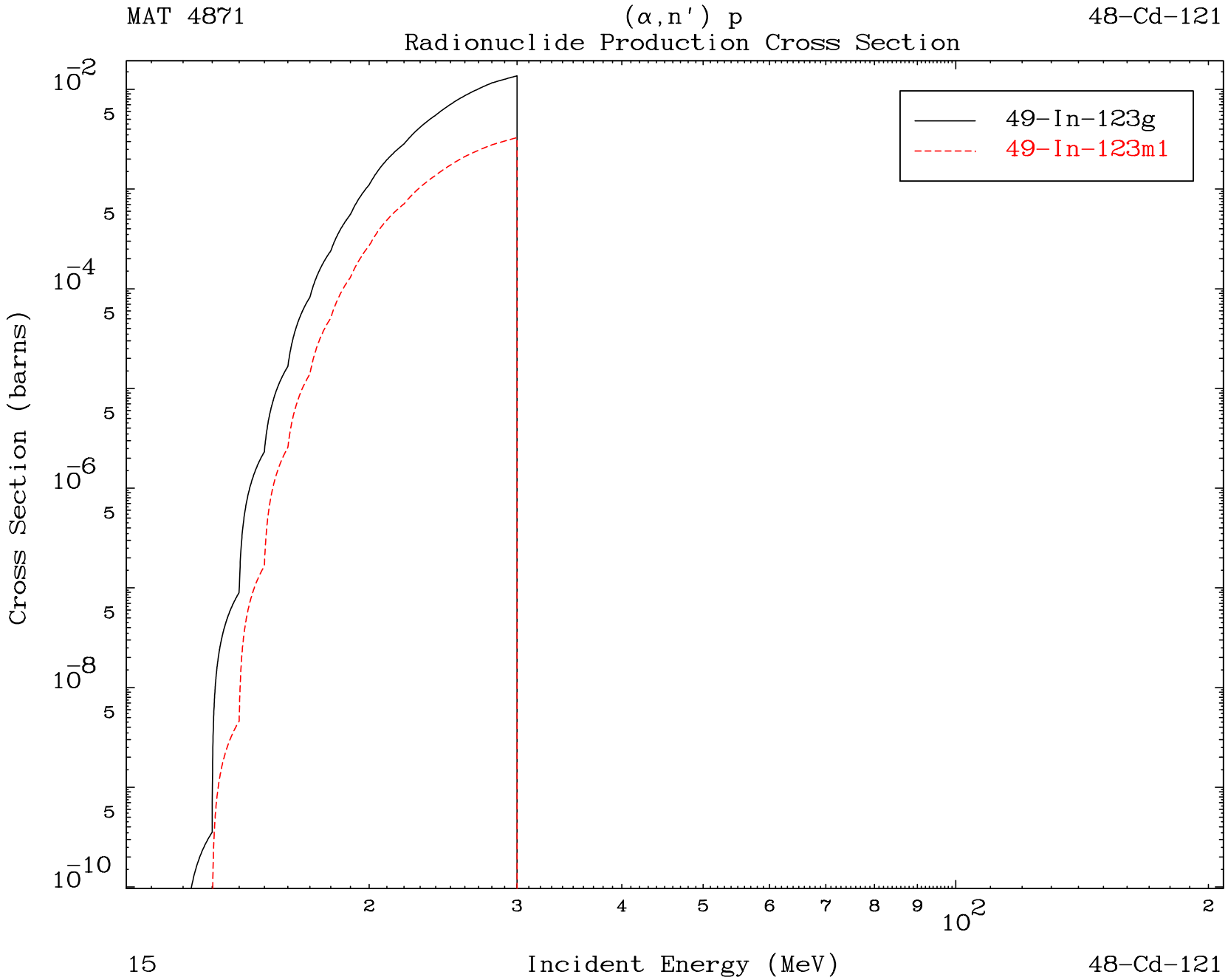

MAT 4871
(α,He3) Levels
48-Cd-121
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
10
Incident Energy (MeV)
48-Cd-121

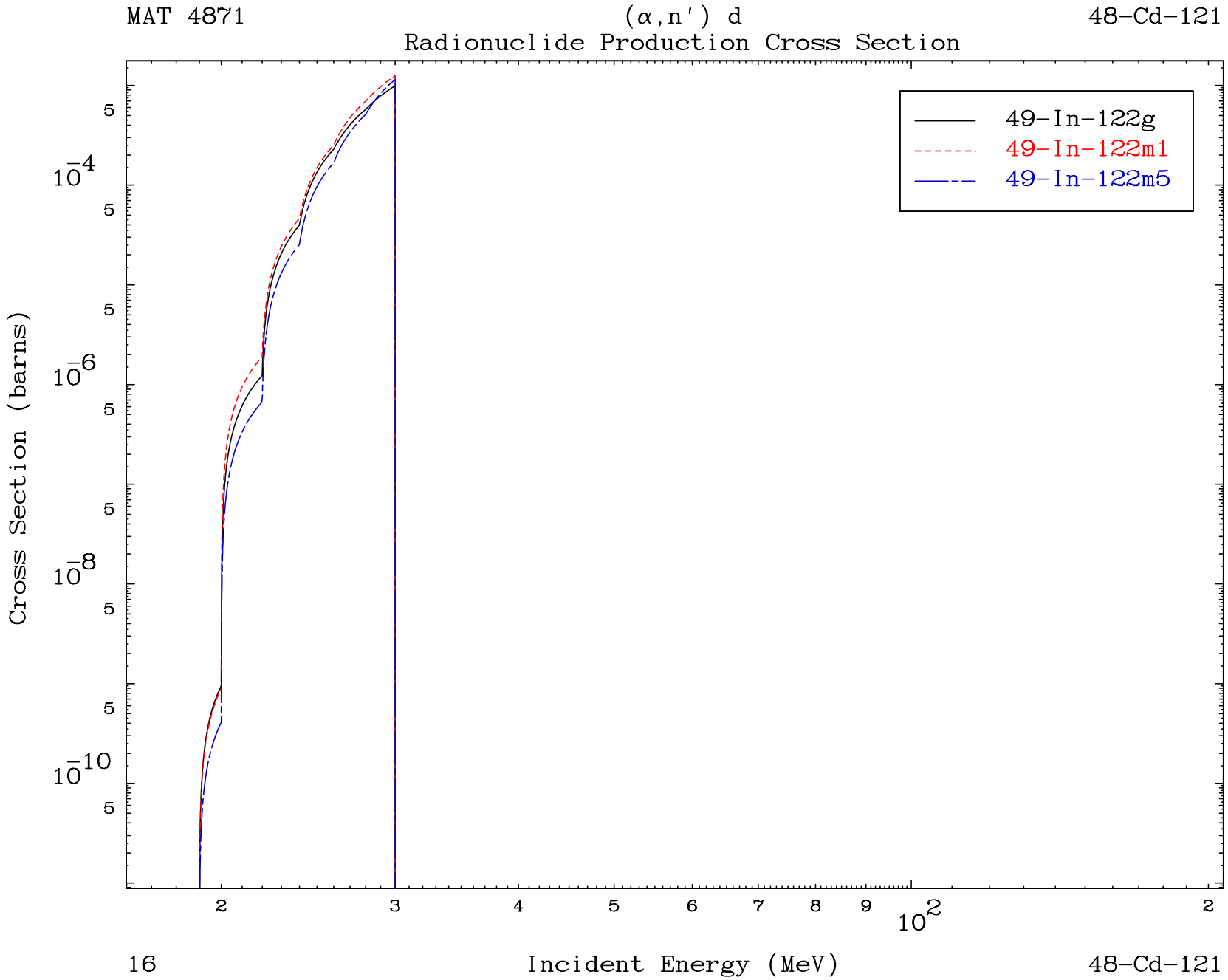

MAT 4871
(α,α) Levels
48-Cd-121
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
Incident Energy (MeV)
11
48-Cd-121

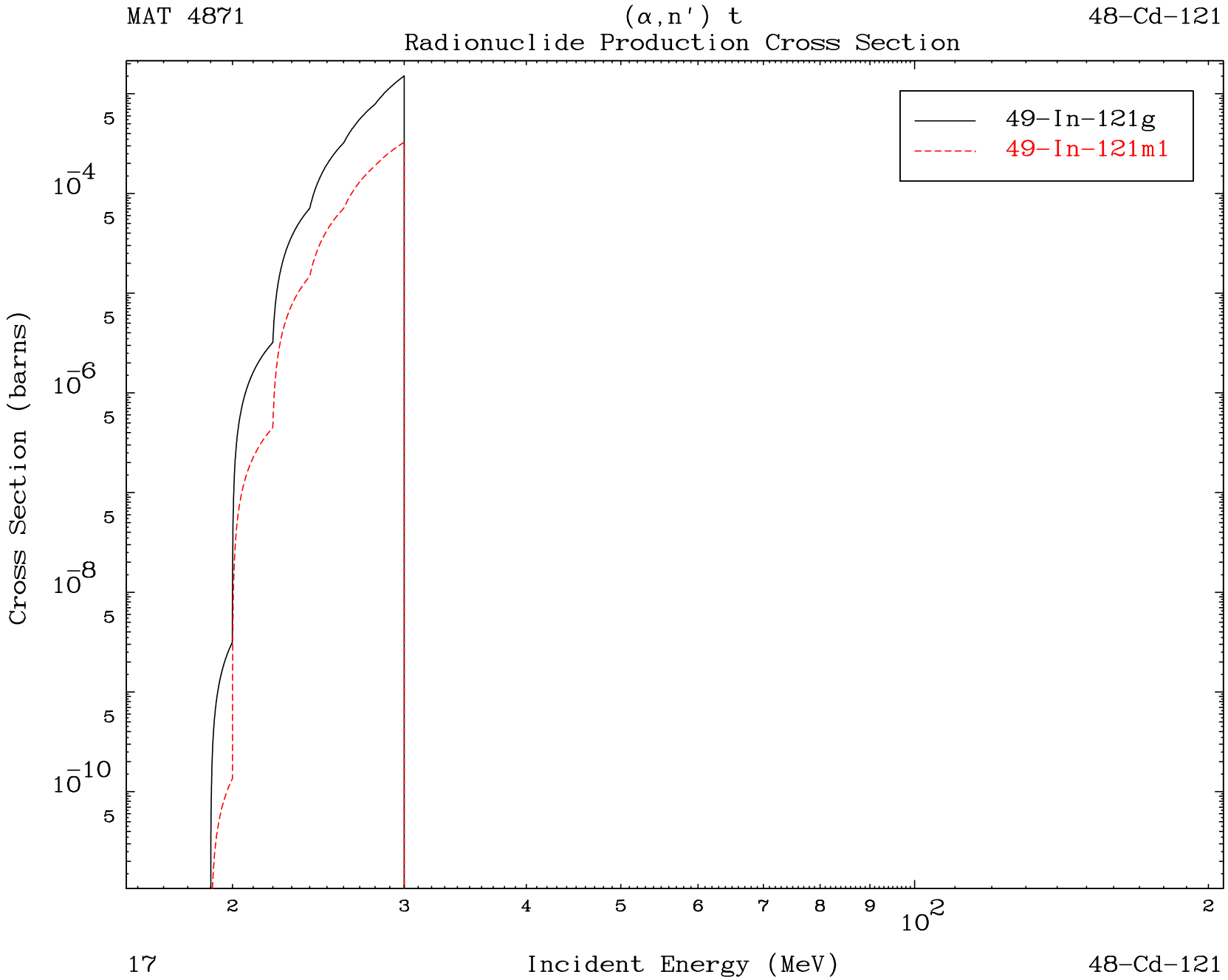

MAT 4871
(α,2n) d
48-Cd-121
Radionuclide Production Cross Section
49-In-121g
49-In-121m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
48-Cd-121

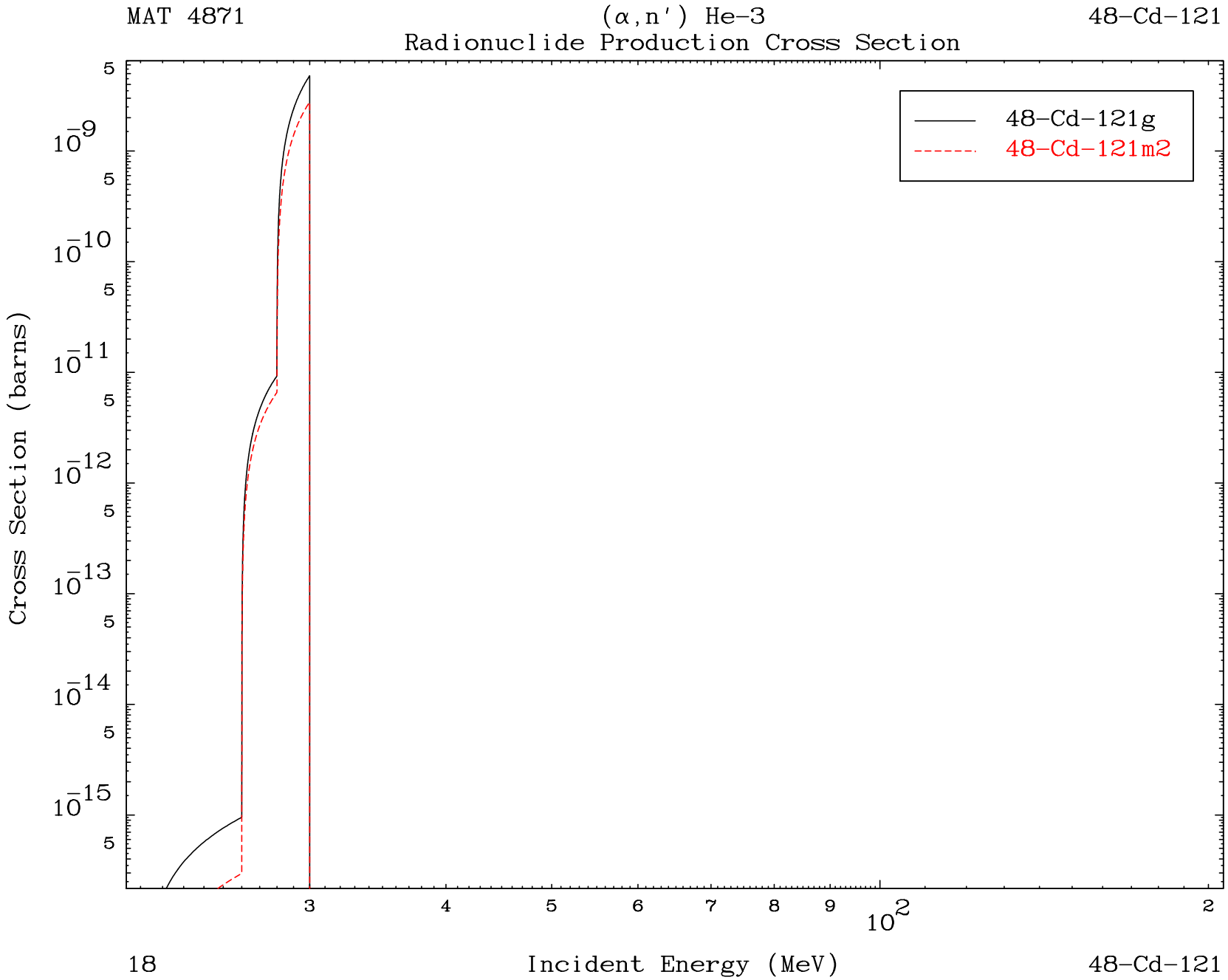

MAT 4871
(α,2n)
48-Cd-121
Radionuclide Production Cross Section
50-Sn-123g
50-Sn-123m1
Cross Section (barns)
10-2
10-4
10-6
10-8
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
13
Incident Energy (MeV)
48-Cd-121

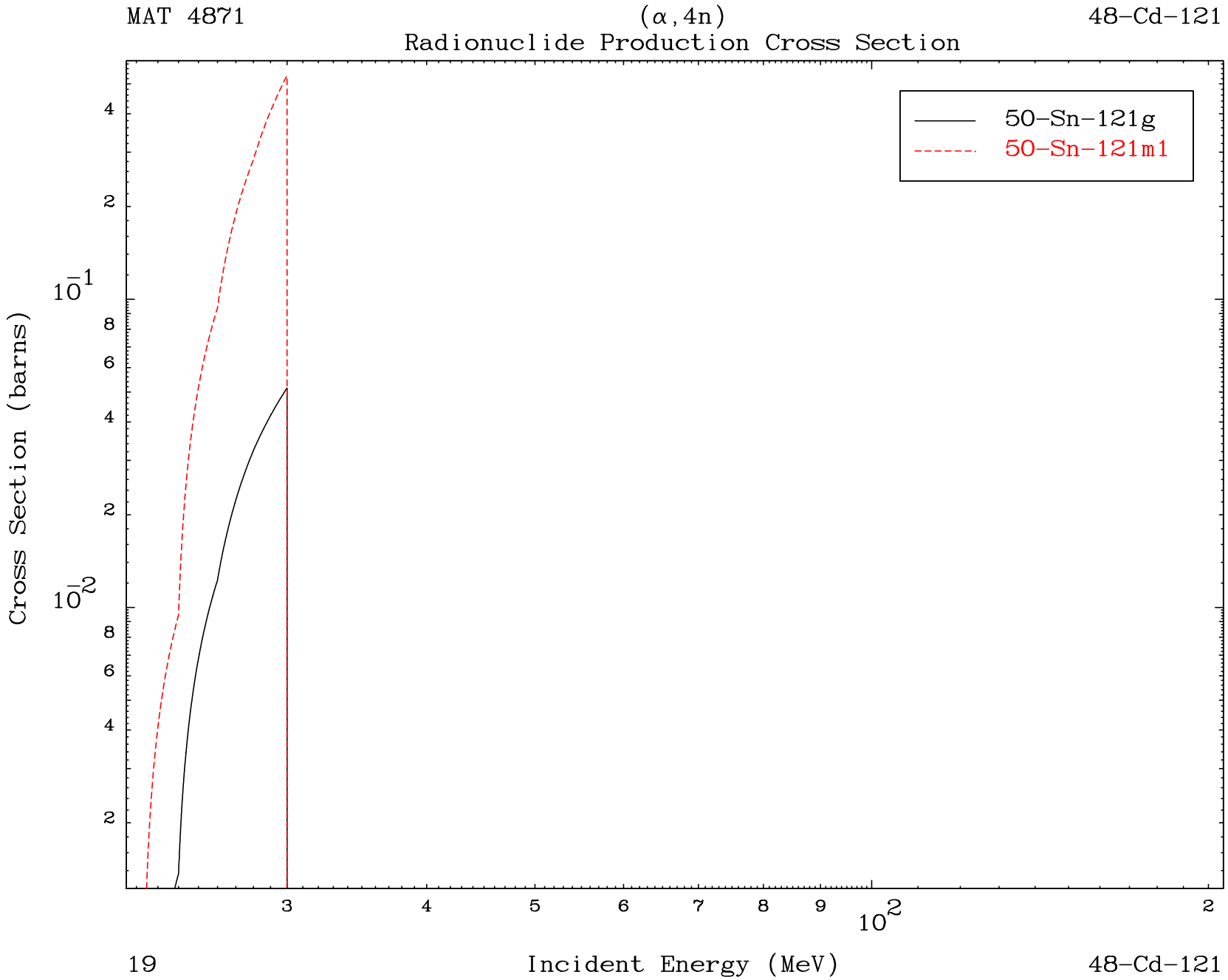

MAT 4871
(α,2n) α
48-Cd-121
Radionuclide Production Cross Section
48-Cd-119g
48-Cd-119m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
48-Cd-121

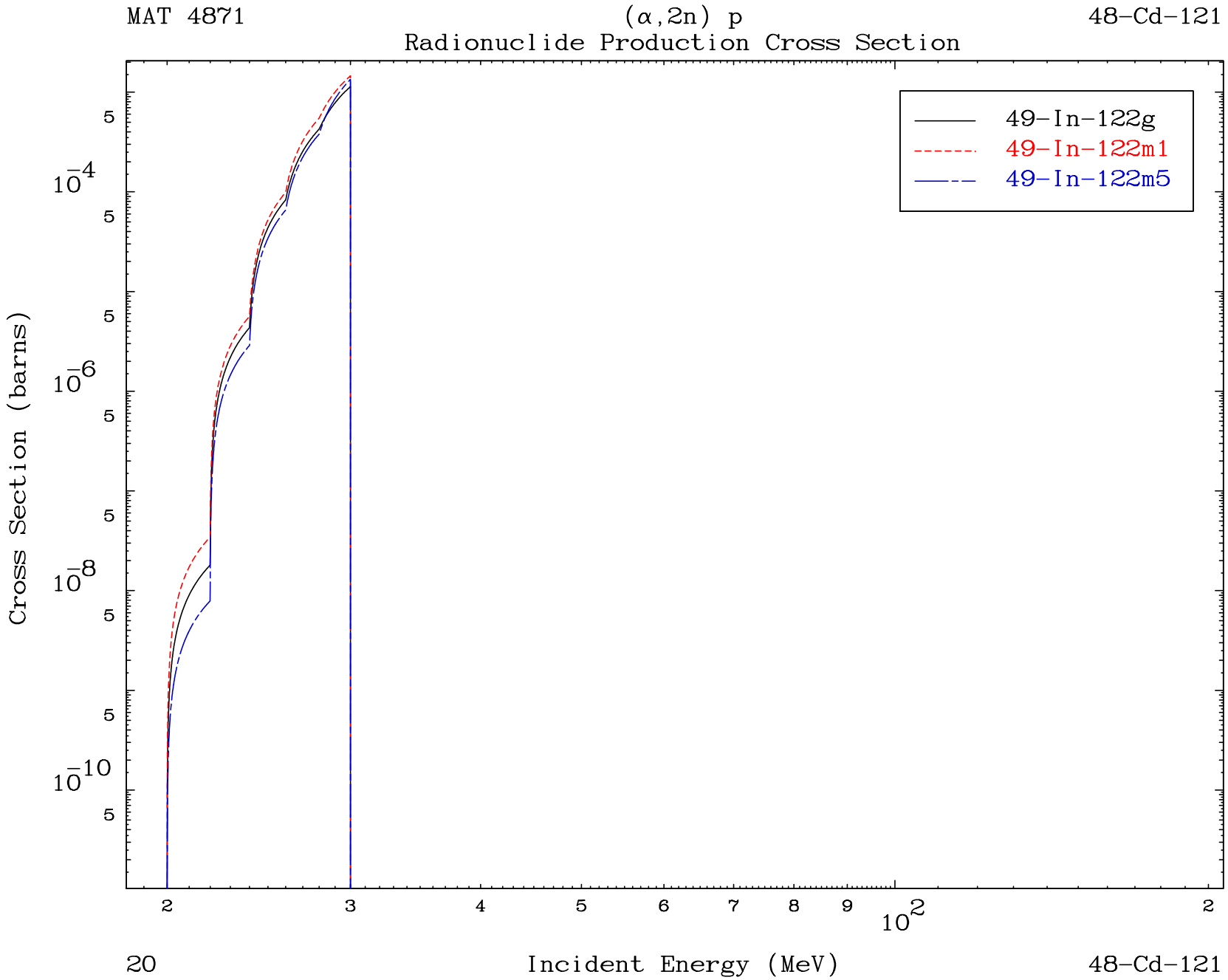

MAT 4871
(α,n') p
48-Cd-121
Radionuclide Production Cross Section
49-In-123g
49-In-123m1
Cross Section (barns)
10-2
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
48-Cd-121

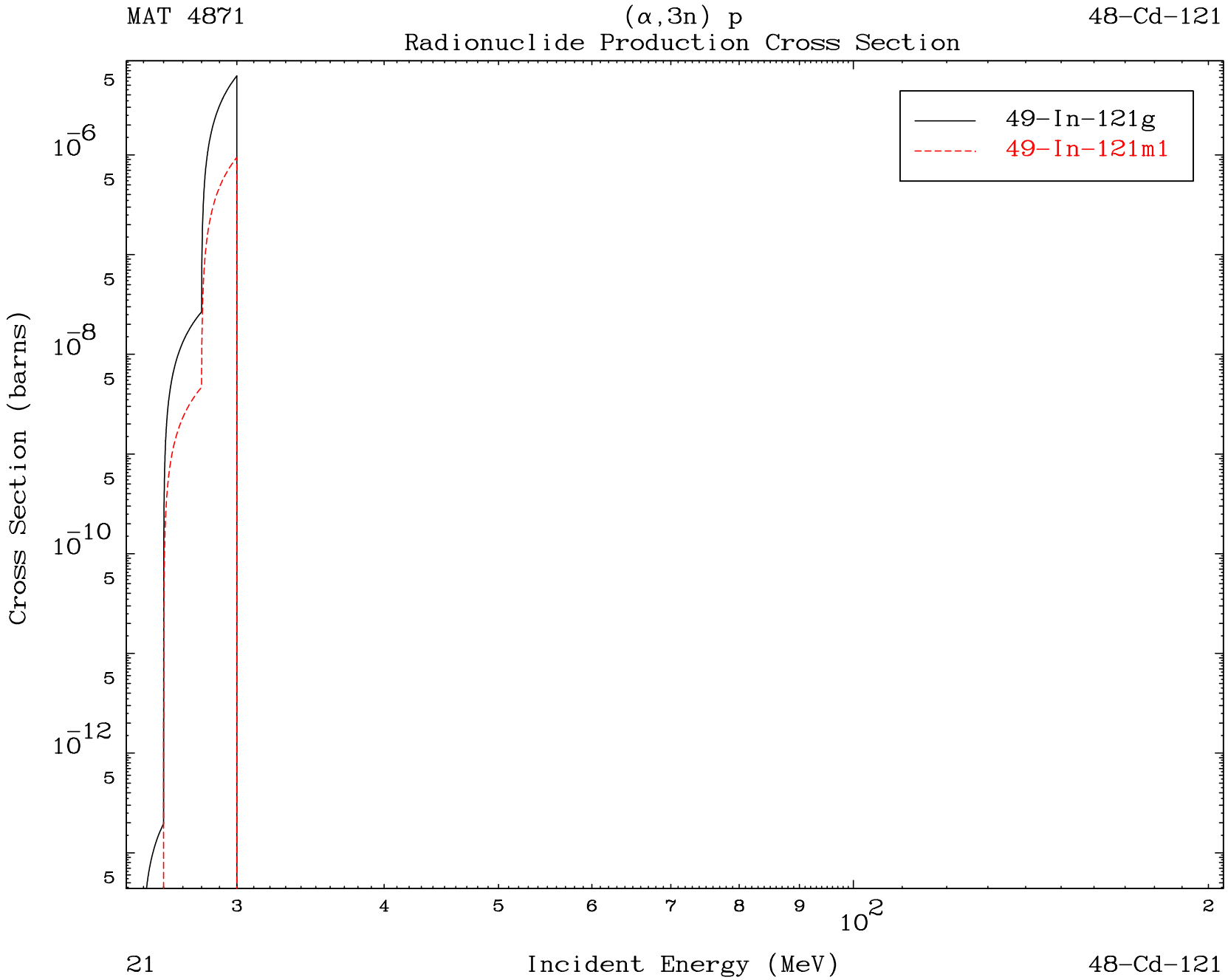

MAT 4871
(α,n') d
48-Cd-121
Radionuclide Production Cross Section
49-In-122g
49-In-122m1
49-In-122m5
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
48-Cd-121

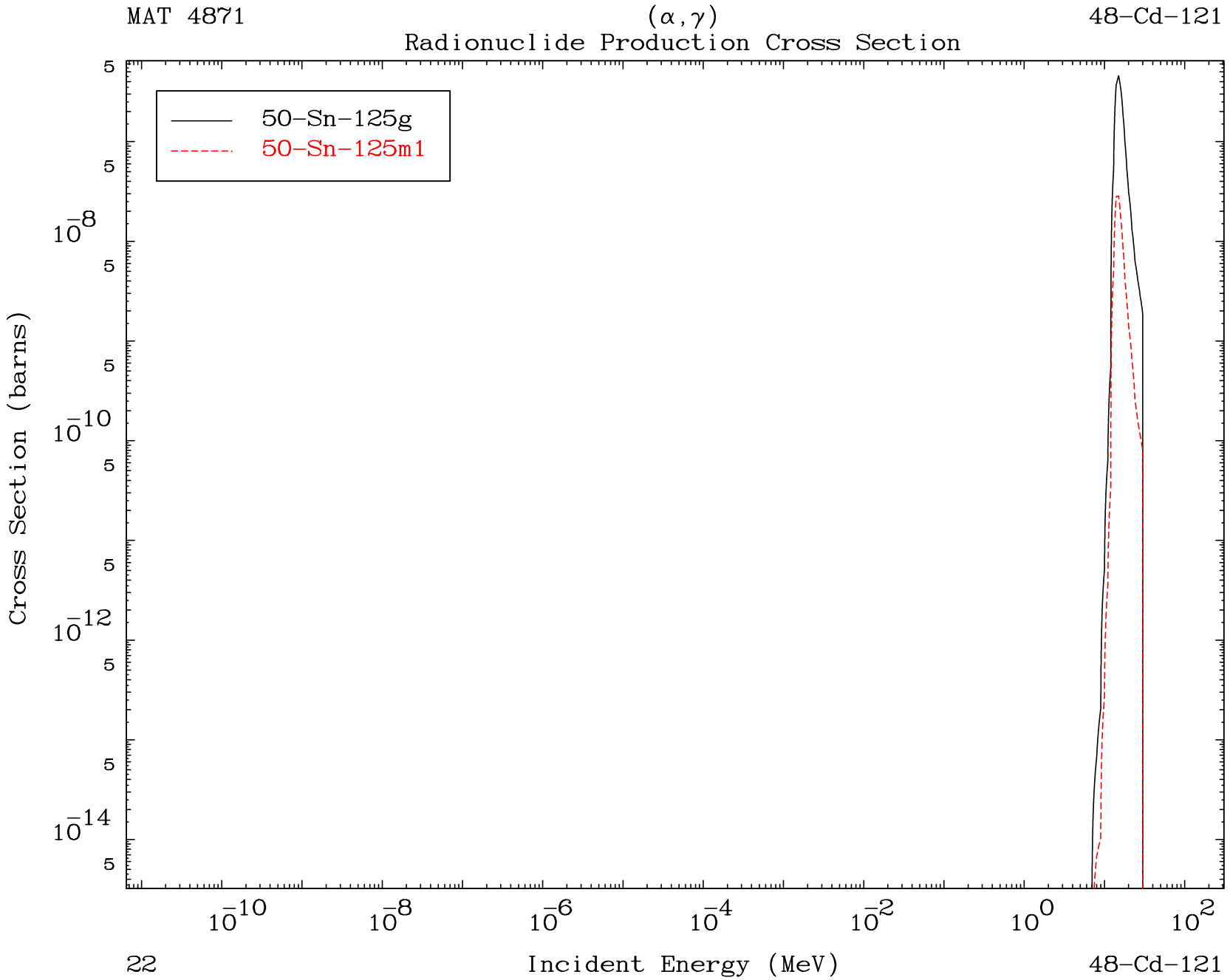

MAT 4871
(α,n') t
48-Cd-121
Radionuclide Production Cross Section
49-In-121g
49-In-121m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
17
48-Cd-121

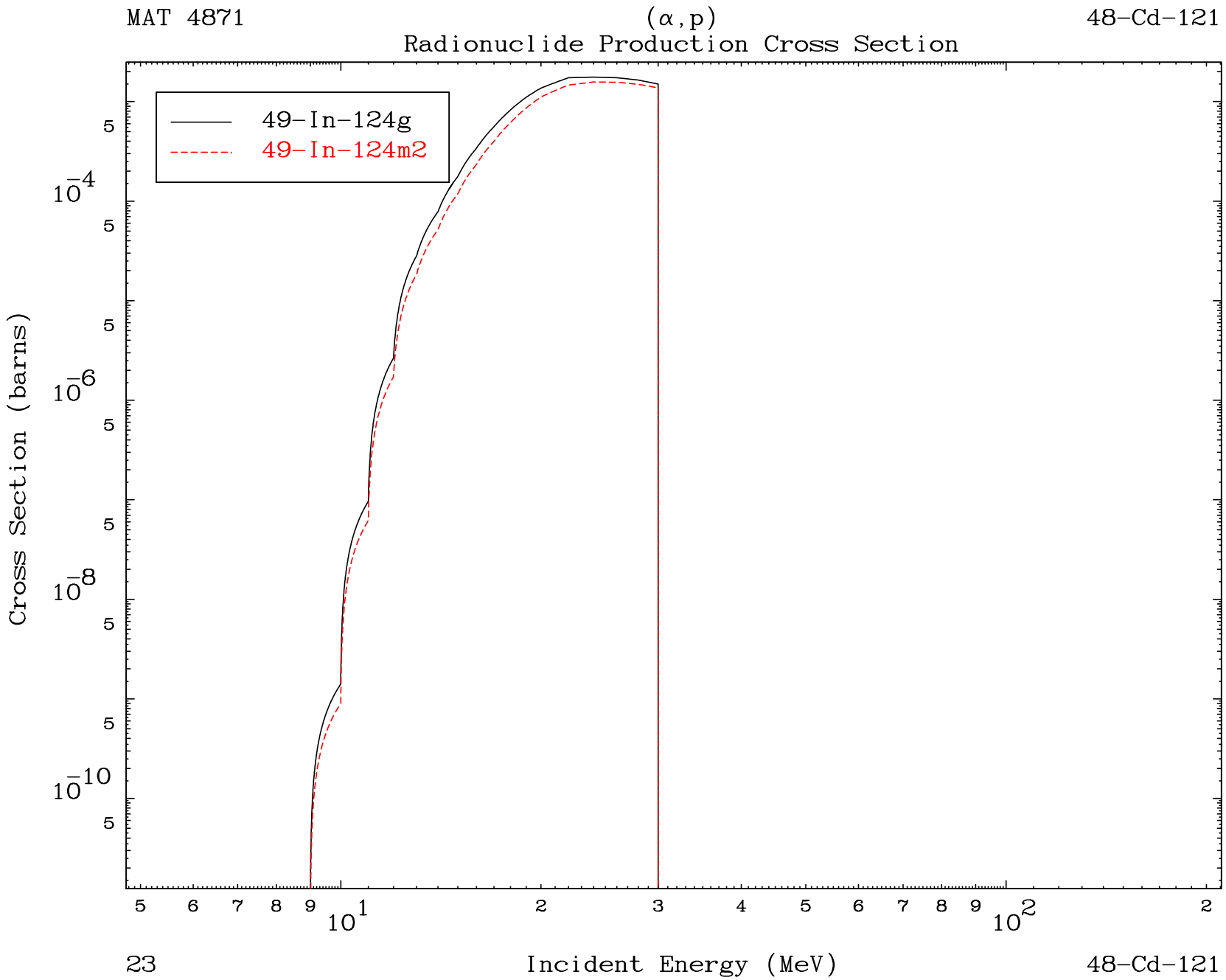

MAT 4871
(α,n') He-3
48-Cd-121
Radionuclide Production Cross Section
48-Cd-121g
48-Cd-121m2
Cross Section (barns)
Incident Energy (MeV)
18
48-Cd-121

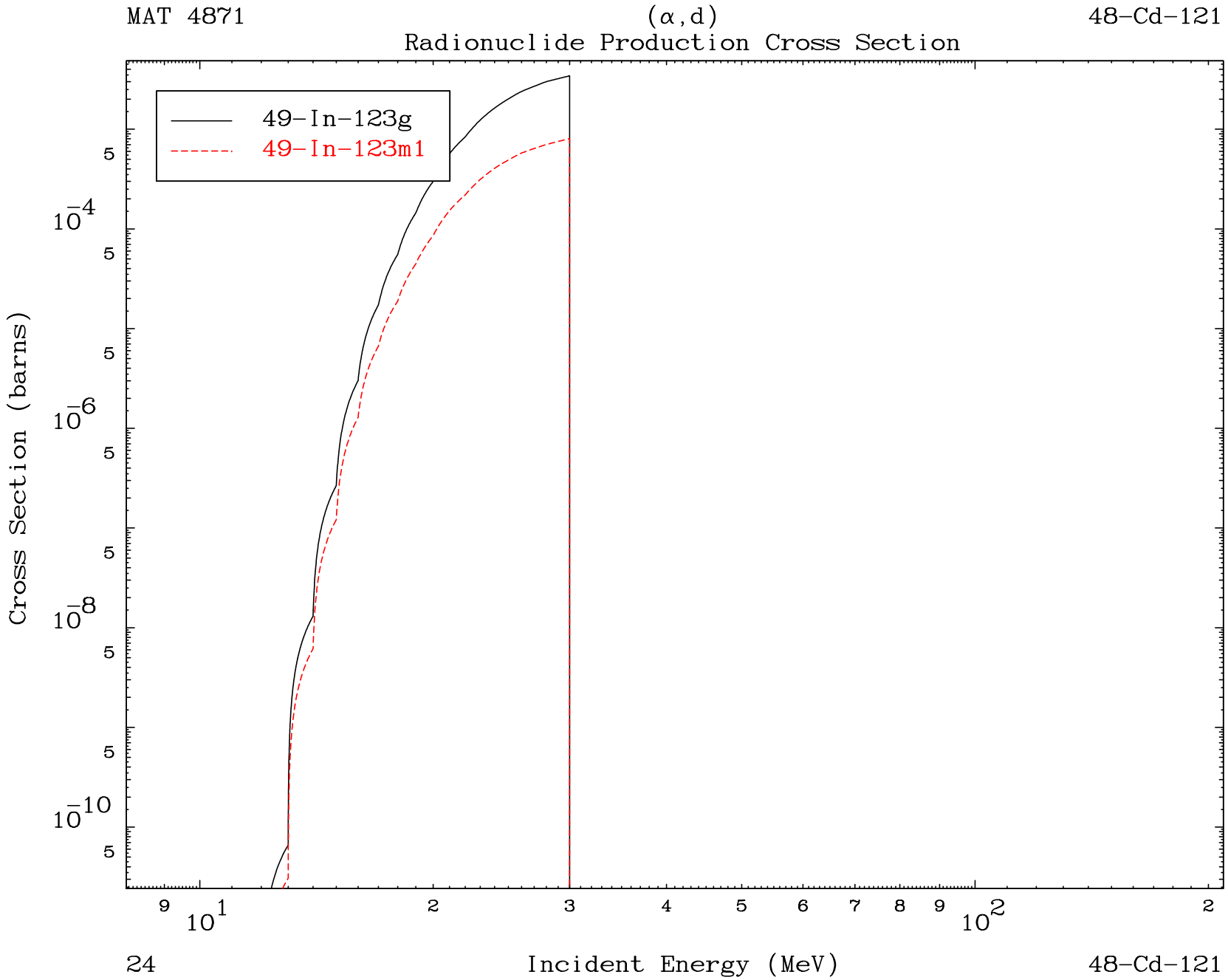

MAT 4871
(α,4n)
48-Cd-121
Radionuclide Production Cross Section
50-Sn-121g
50-Sn-121m1
Cross Section (barns)
10-1
10-2
4
2
8
6
4
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
48-Cd-121

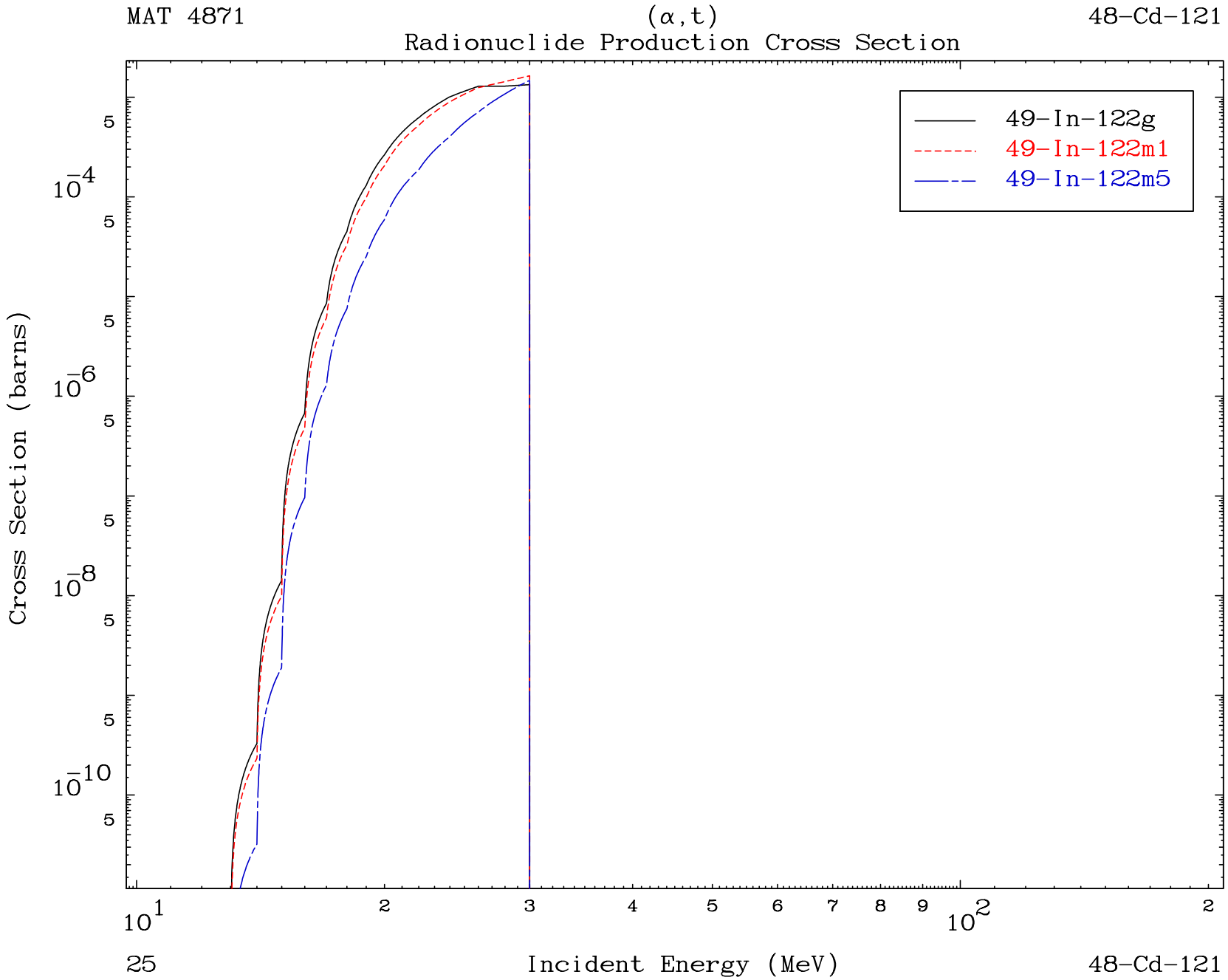

MAT 4871
(α,2n) p
48-Cd-121
Radionuclide Production Cross Section
49-In-122g
49-In-122m1
49-In-122m5
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
20
48-Cd-121

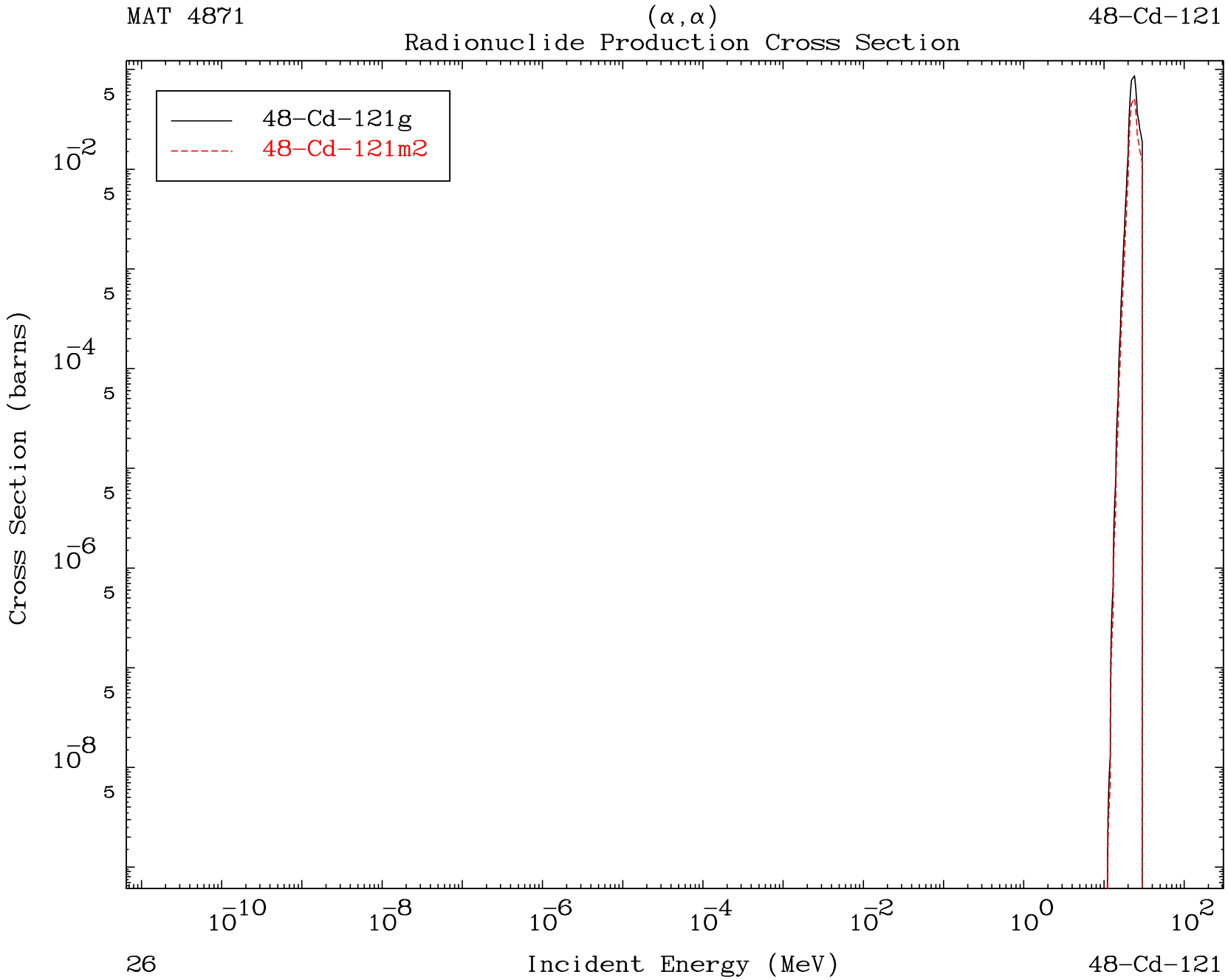

MAT 4871
(α,3n) p
48-Cd-121
Radionuclide Production Cross Section
49-In-121g
49-In-121m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
21
Incident Energy (MeV)
48-Cd-121

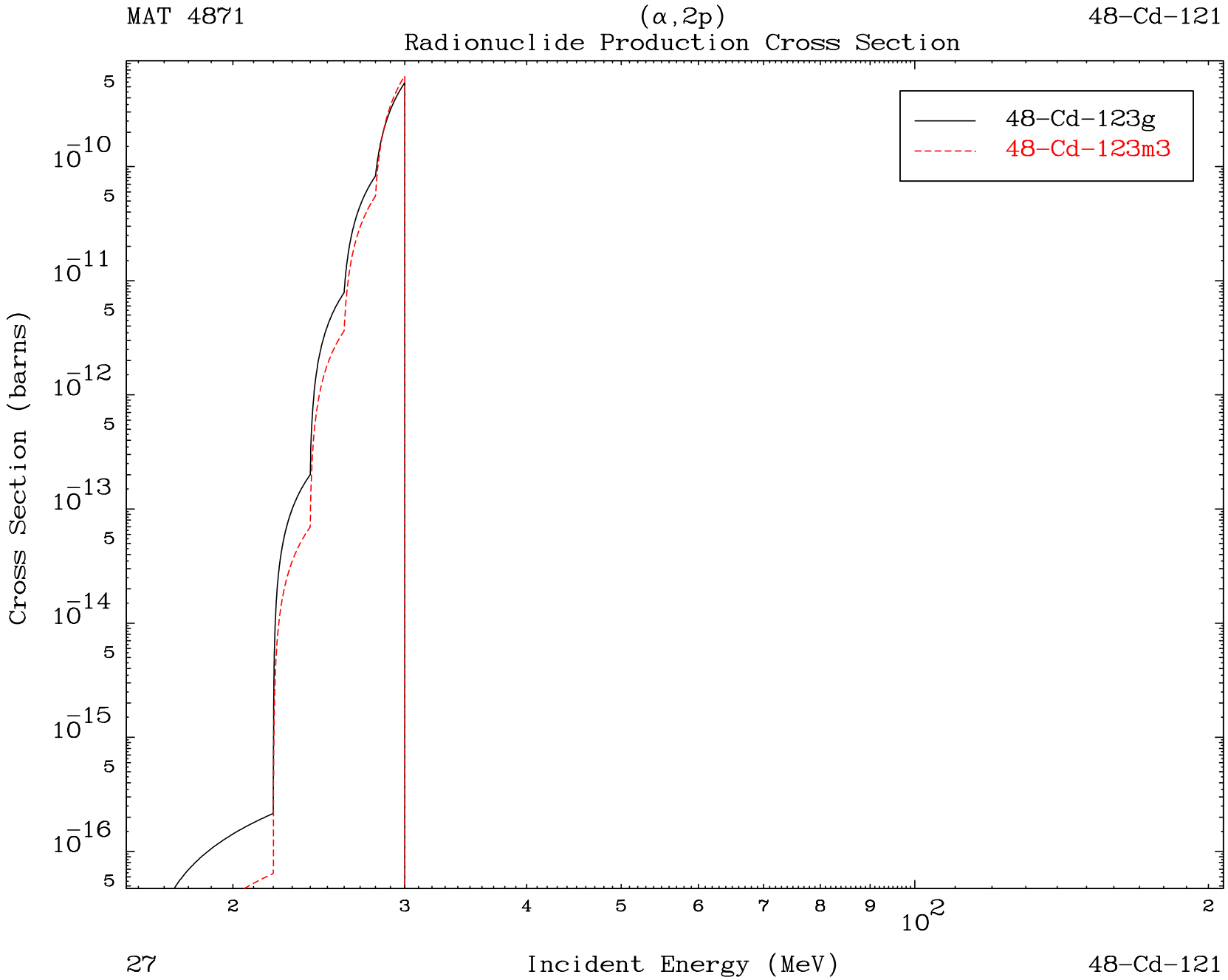

MAT 4871
(α,γ)
48-Cd-121
Radionuclide Production Cross Section
50-Sn-125g
50-Sn-125m1
Cross Section (barns)
Incident Energy (MeV)
22
48-Cd-121


MAT 4871
(α,p)
48-Cd-121
Radionuclide Production Cross Section
49-In-124g
49-In-124m2
Cross Section (barns)
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
23
Incident Energy (MeV)
48-Cd-121


MAT 4871
(α,d)
48-Cd-121
Radionuclide Production Cross Section
49-In-123g
49-In-123m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
24
Incident Energy (MeV)
48-Cd-121


MAT 4871
(α,t)
48-Cd-121
Radionuclide Production Cross Section
49-In-122g
49-In-122m1
49-In-122m5
Cross Section (barns)
Incident Energy (MeV)
48-Cd-121
25


MAT 4871
(α,α)
48-Cd-121
Radionuclide Production Cross Section
48-Cd-121g
48-Cd-121m2
Cross Section (barns)
Incident Energy (MeV)
26
48-Cd-121


MAT 4871
(α,2p)
48-Cd-121
Radionuclide Production Cross Section
48-Cd-123g
48-Cd-123m3
Cross Section (barns)
Incident Energy (MeV)
27
48-Cd-121