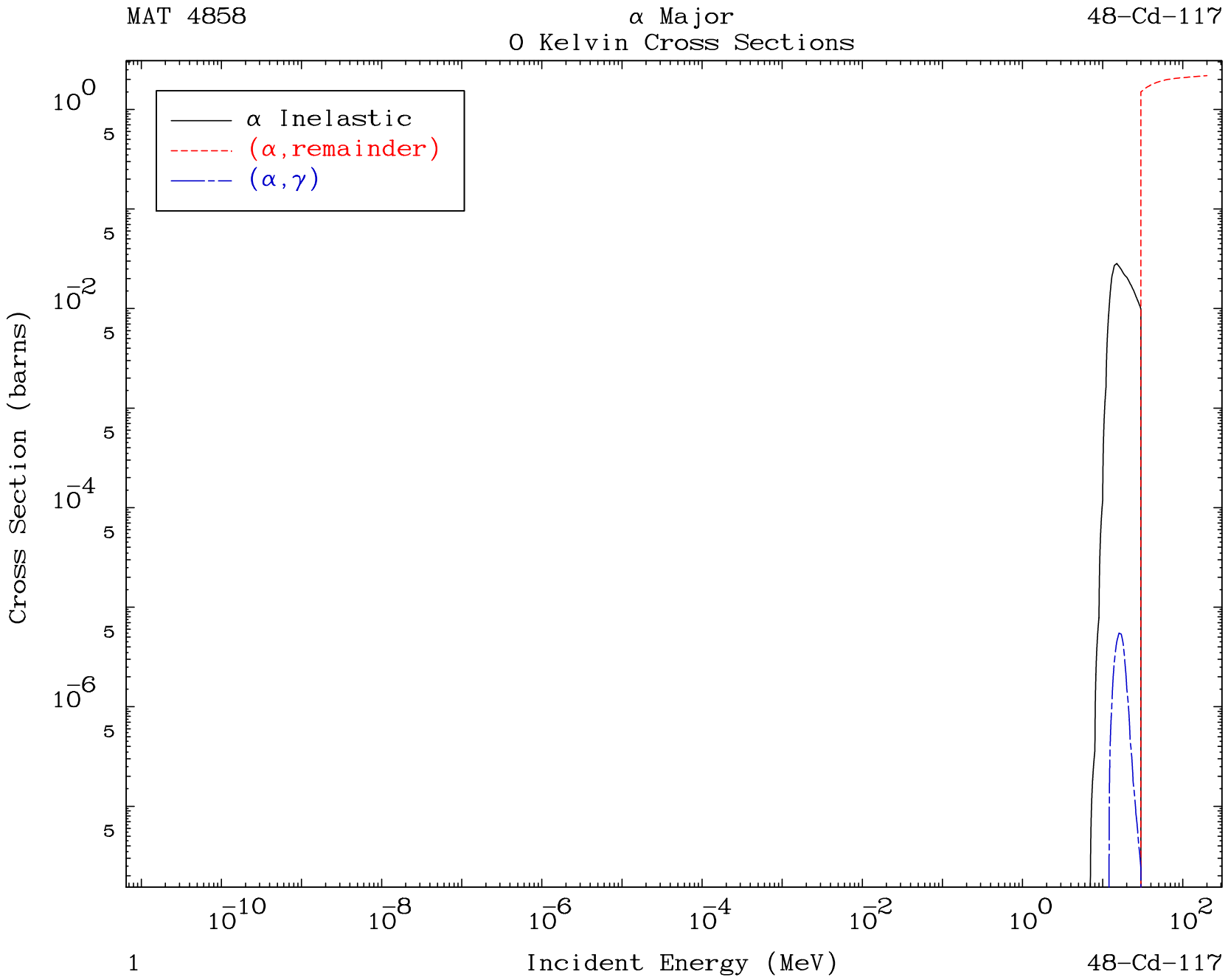
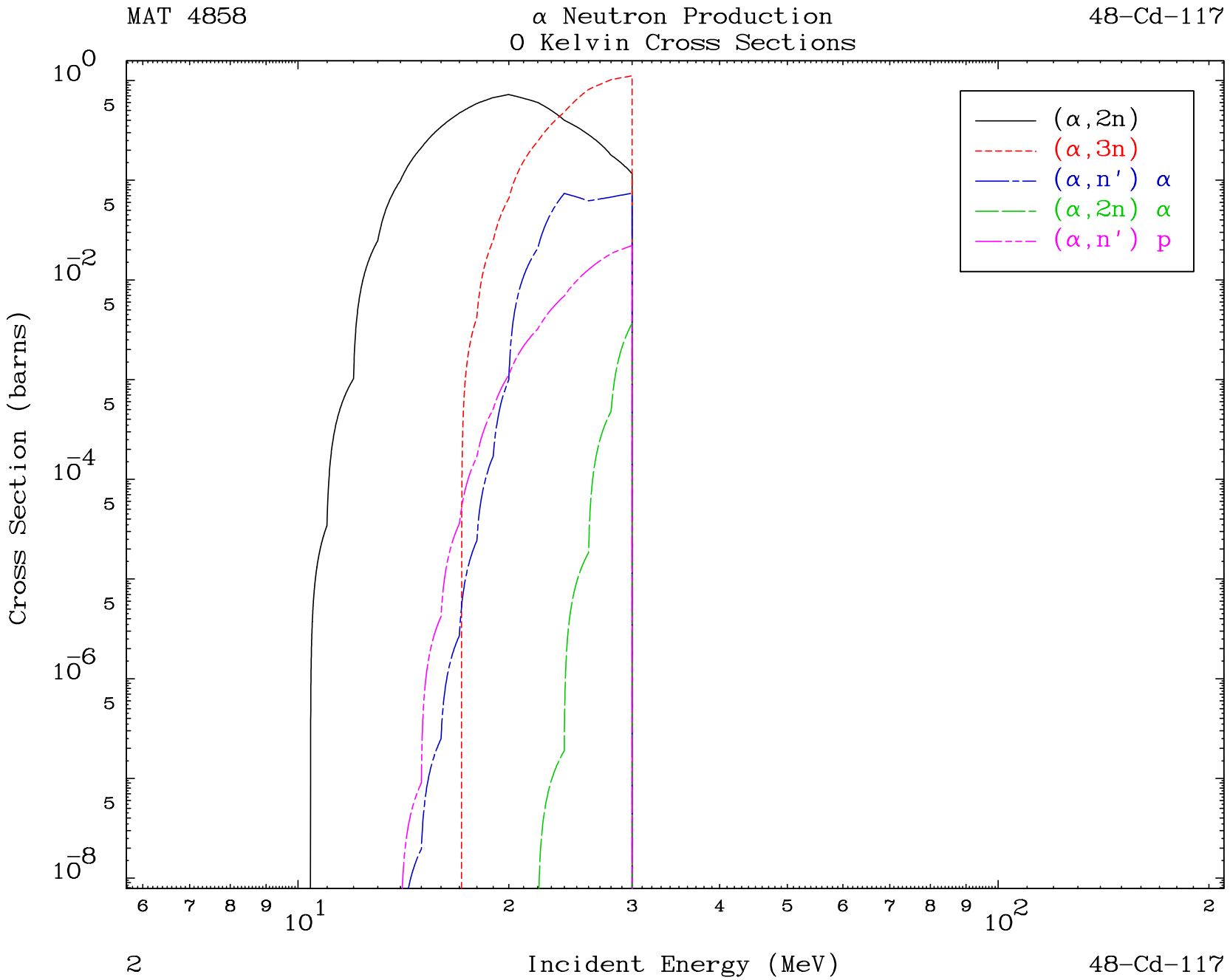
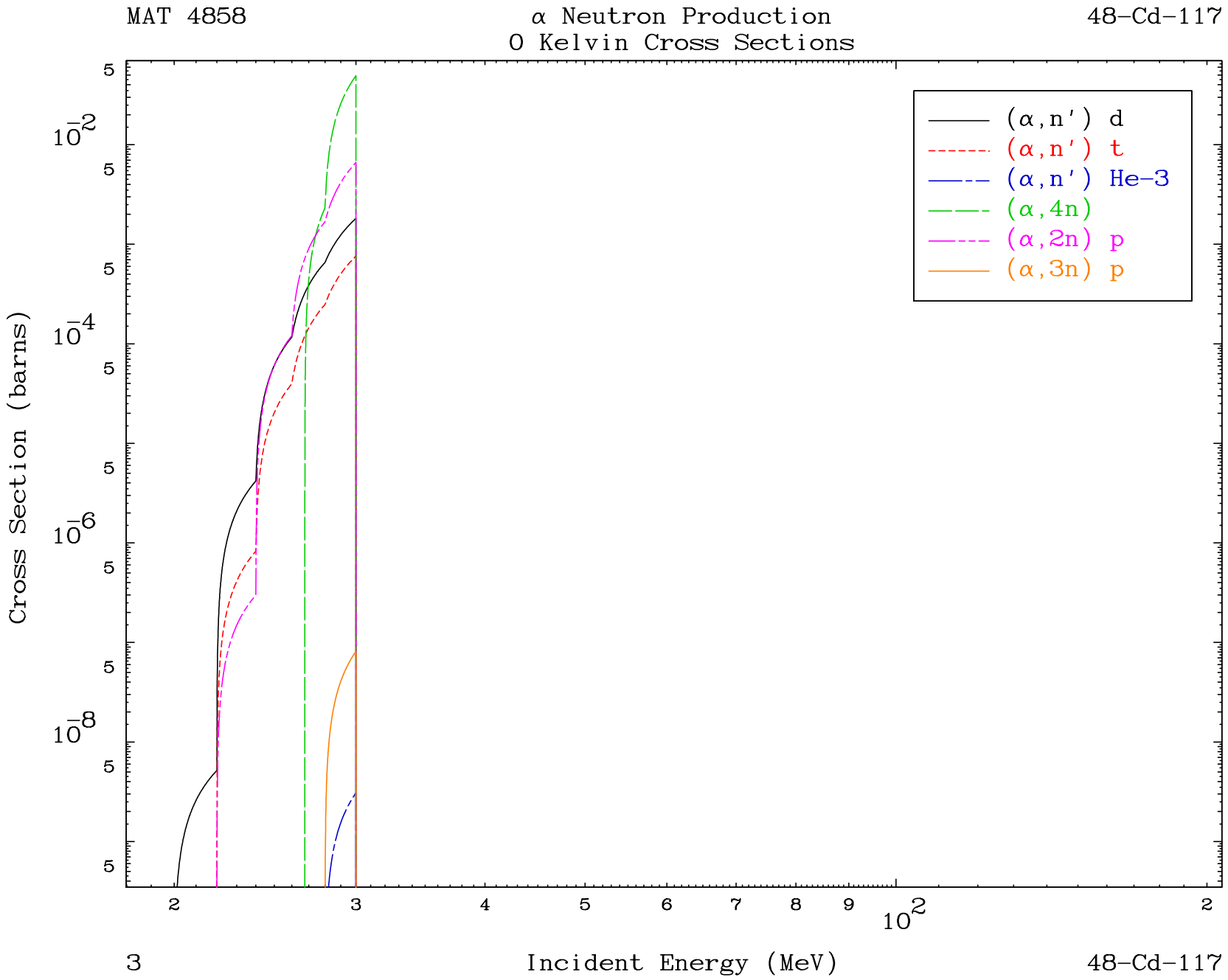
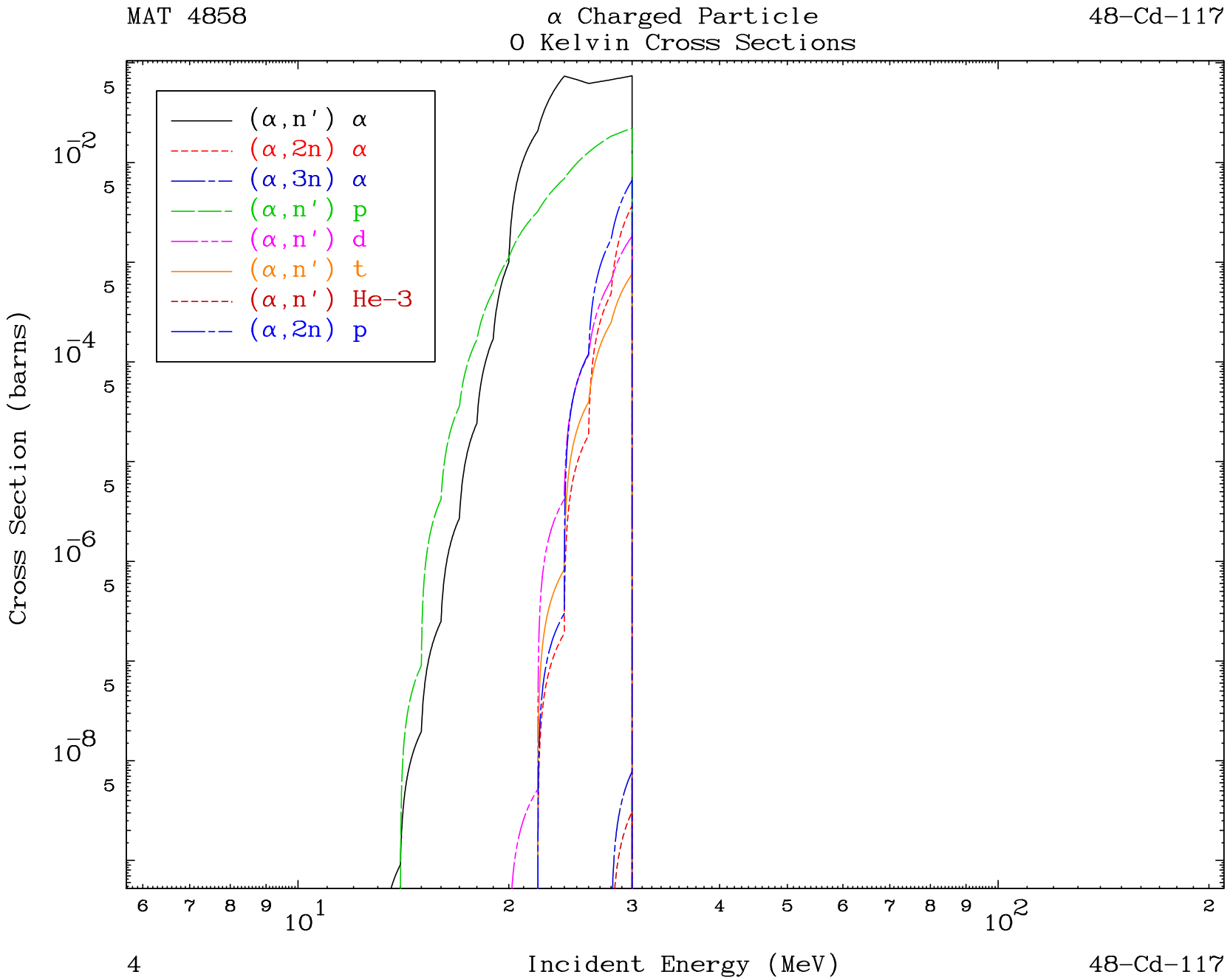
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

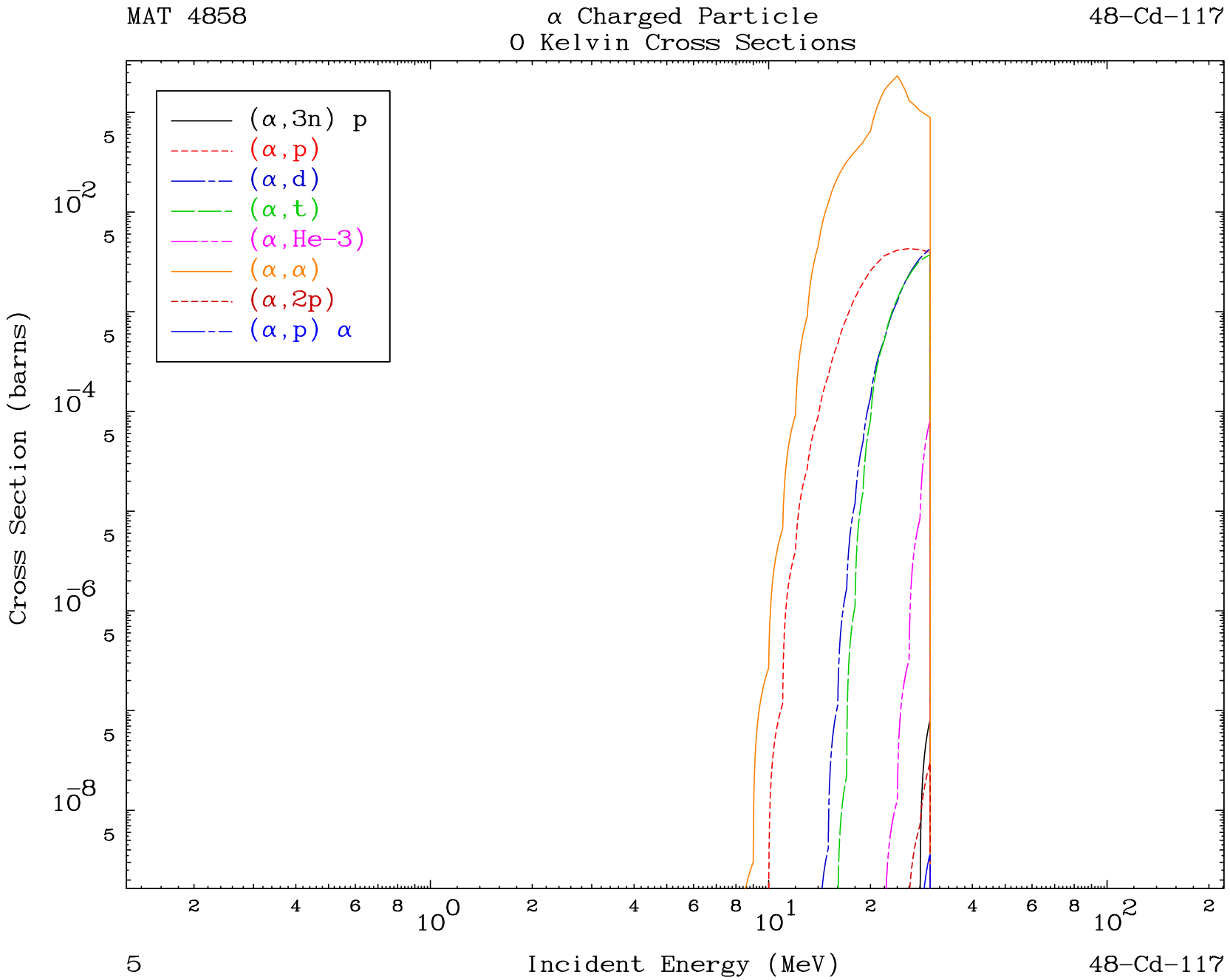
Press Mouse Button to Start

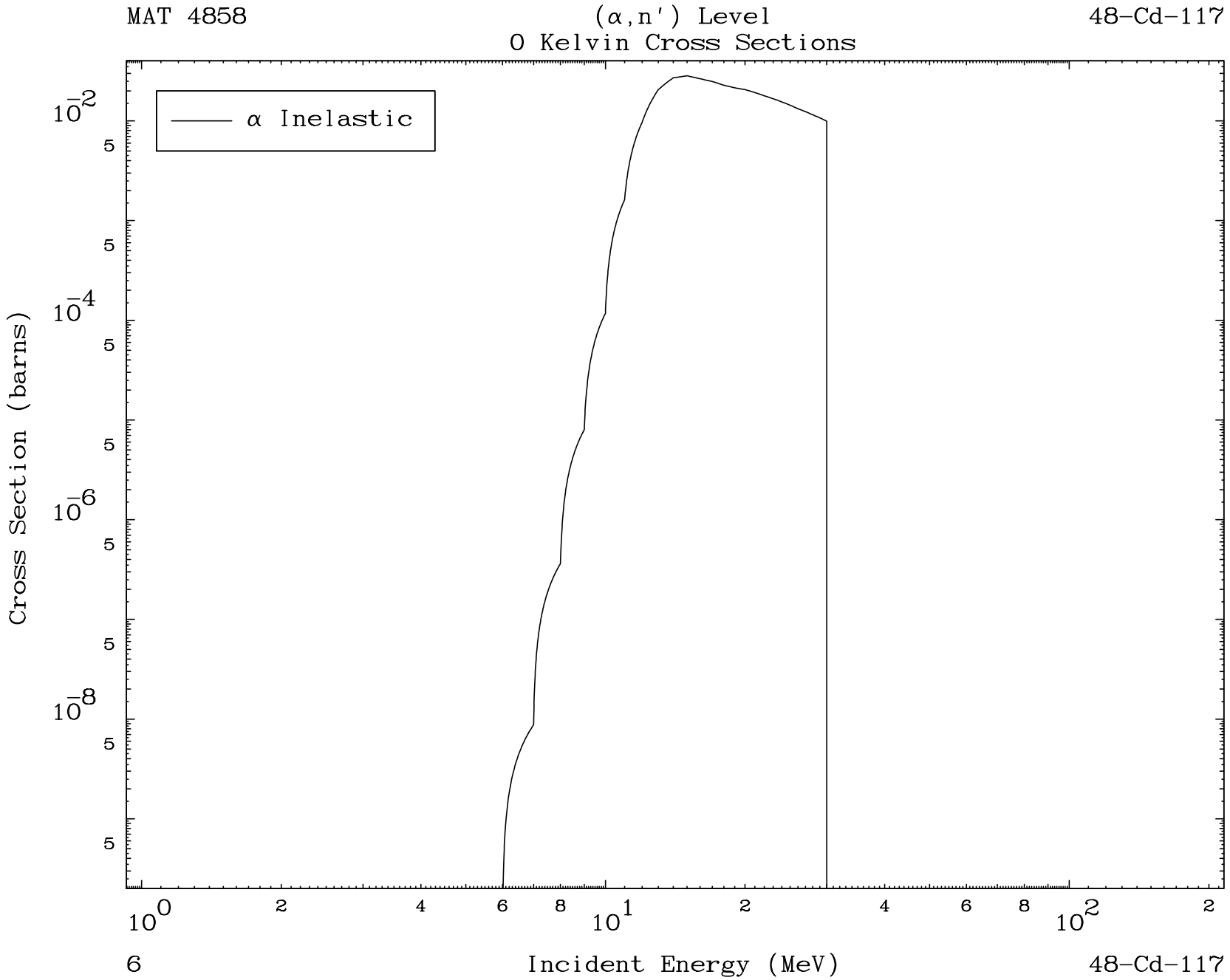

MAT 4858
α Major
48-Cd-117
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
48-Cd-117
1

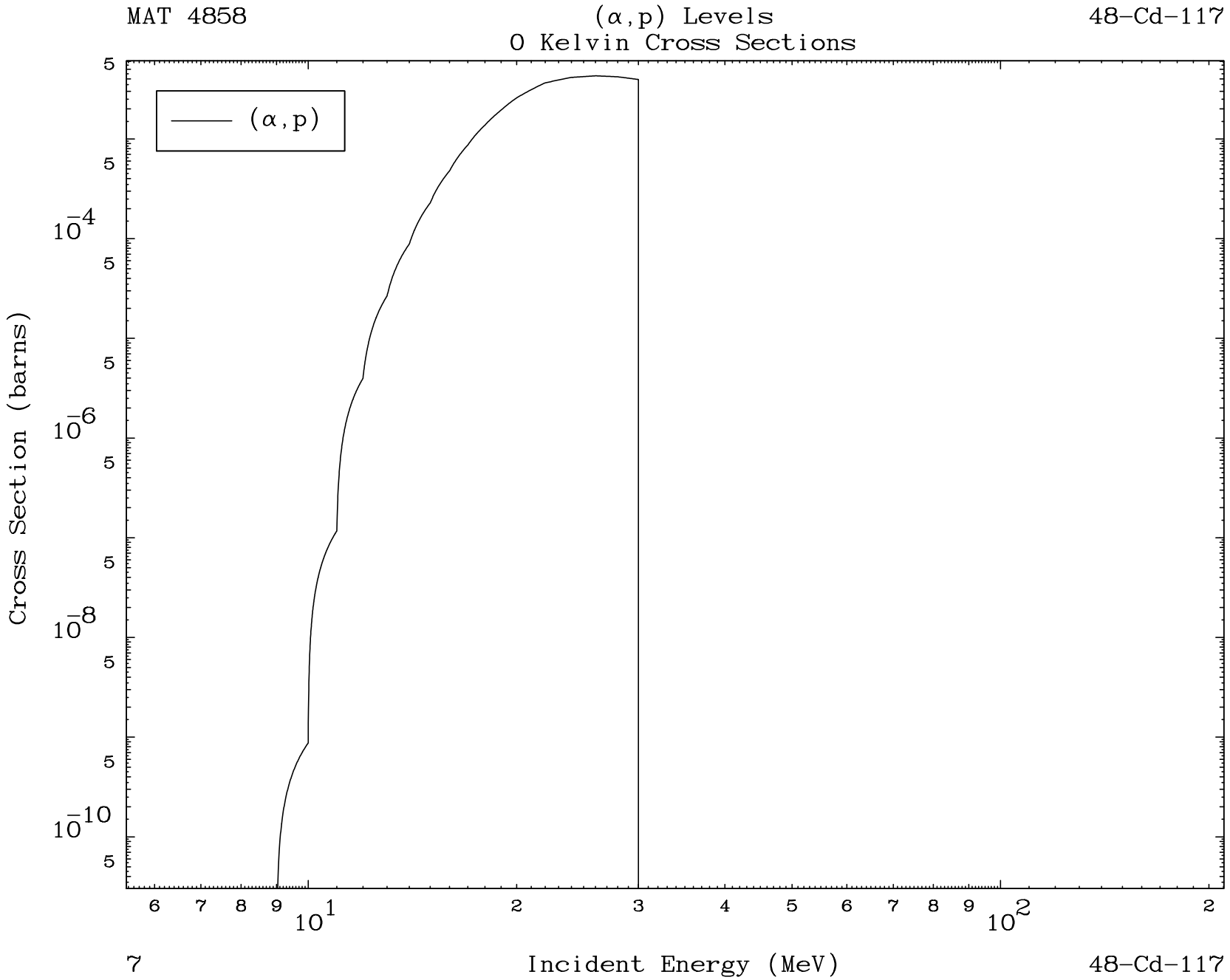

MAT 4858
α Neutron Production
0 Kelvin Cross Sections
48-Cd-117
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
Cross Section (barns)
Incident Energy (MeV)
48-Cd-117

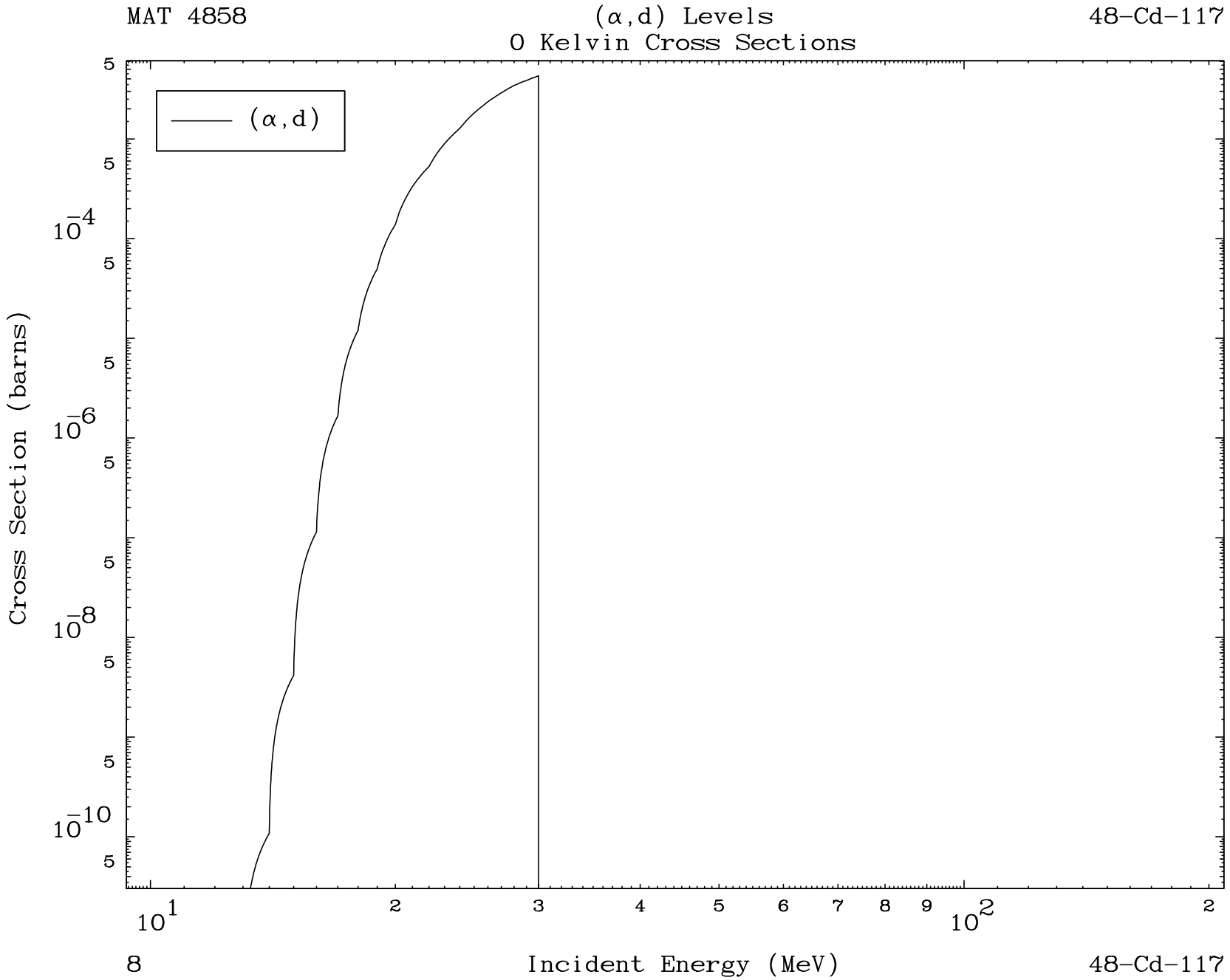

MAT 4858
α Neutron Production
0 Kelvin Cross Sections
48-Cd-117
Cross Section (barns)
Incident Energy (MeV)
(α,n') d
(α,n') t
(α,n') He-3
(α,4n)
(α,2n) p
(α,3n) p
3
48-Cd-117

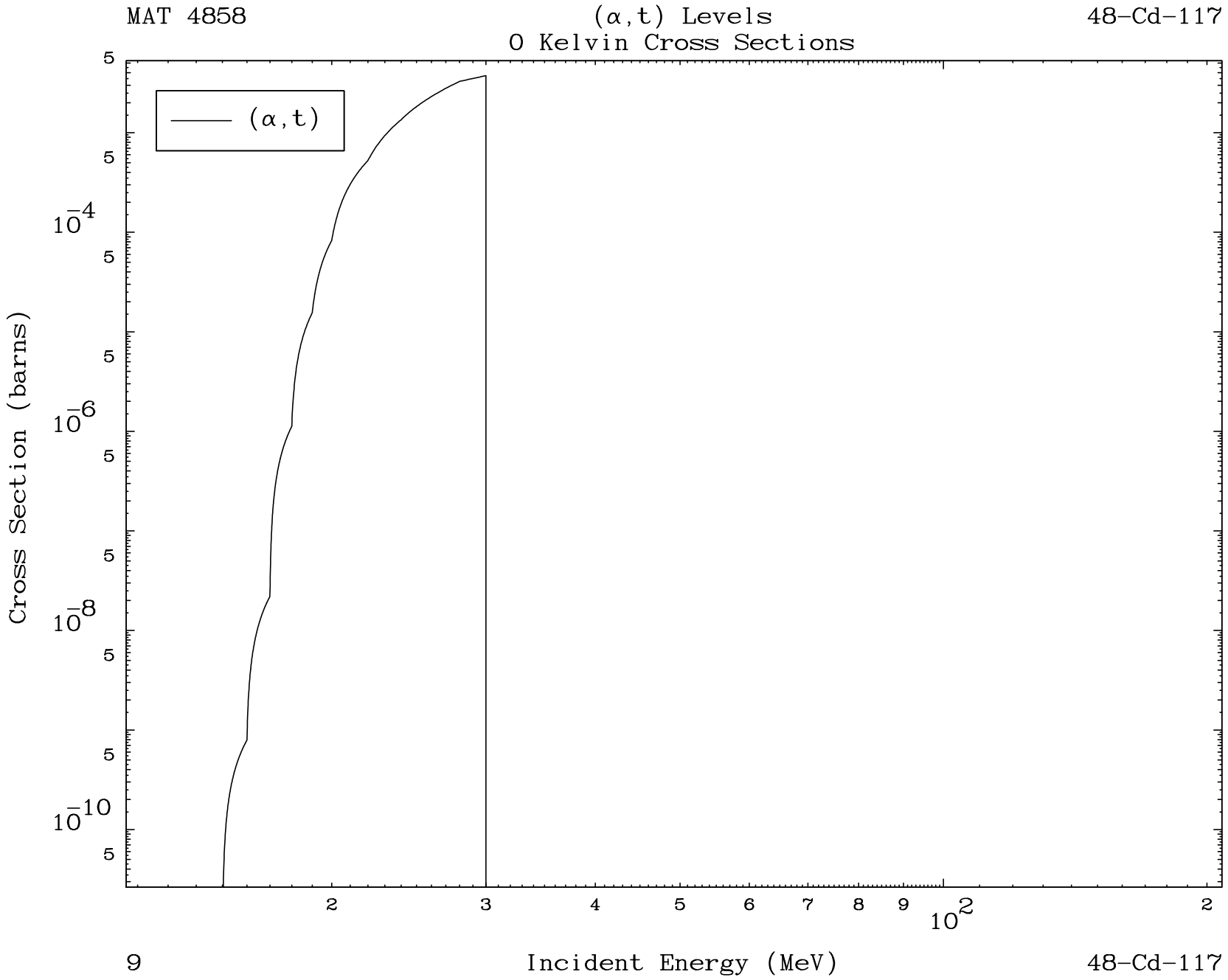

MAT 4858
α Charged Particle
0 Kelvin Cross Sections
48-Cd-117
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
48-Cd-117
4

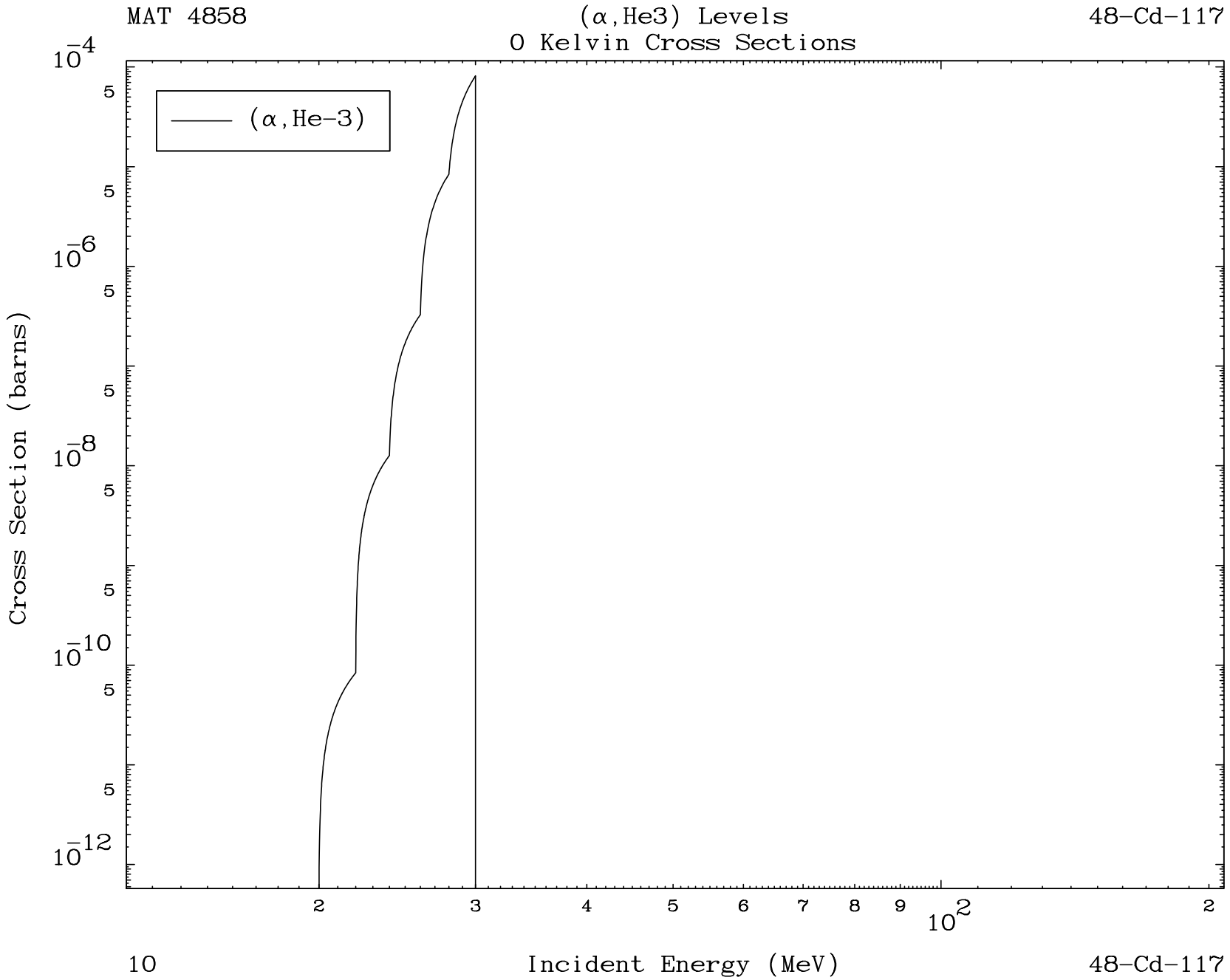

MAT 4858
α Charged Particle
0 Kelvin Cross Sections
48-Cd-117
(α,3n) p
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2p)
(α,p) α
Cross Section (barns)
Incident Energy (MeV)
48-Cd-117

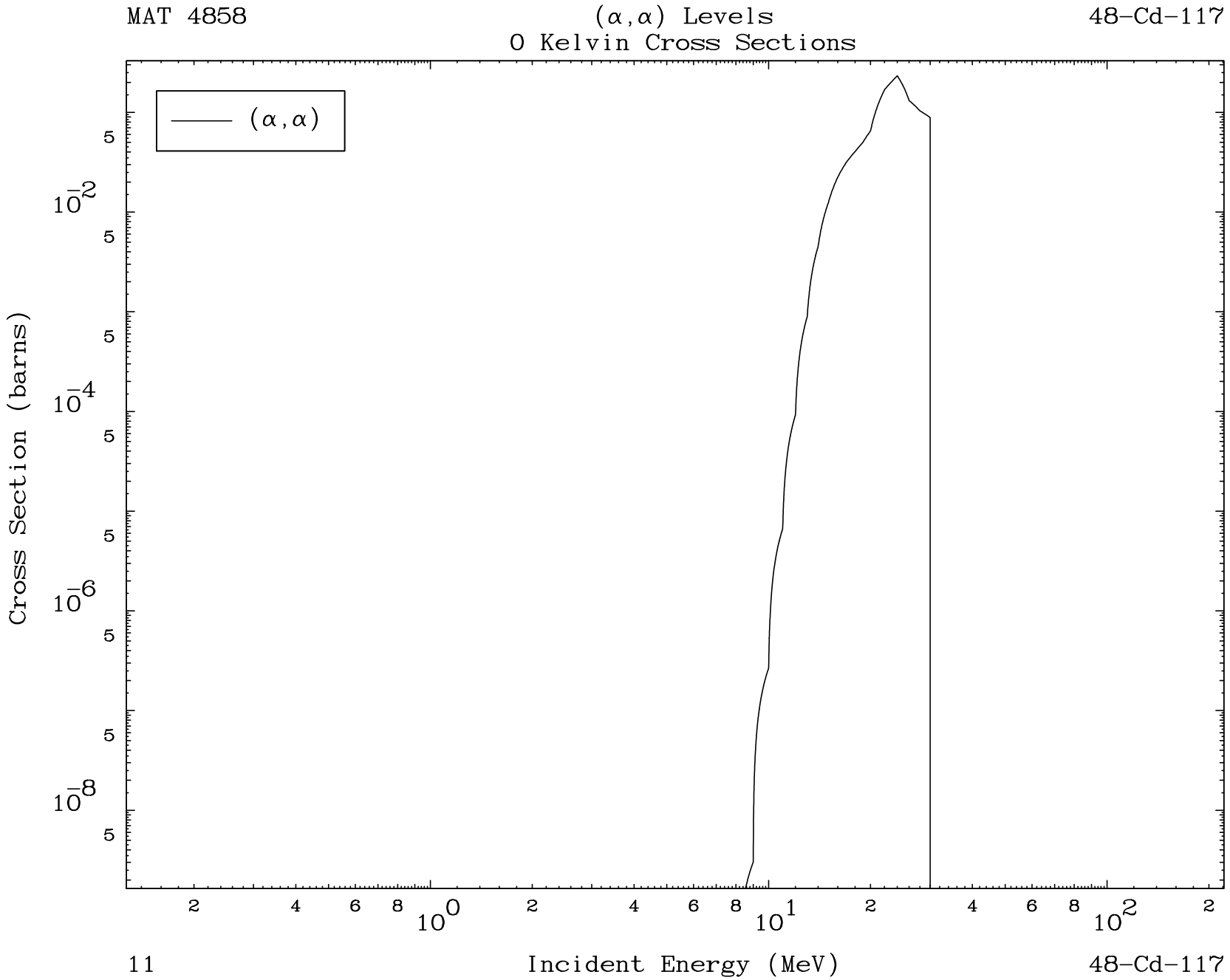

MAT 4858
(α,n') Level
48-Cd-117
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
2
4
6
8
101
102
Incident Energy (MeV)
6
48-Cd-117

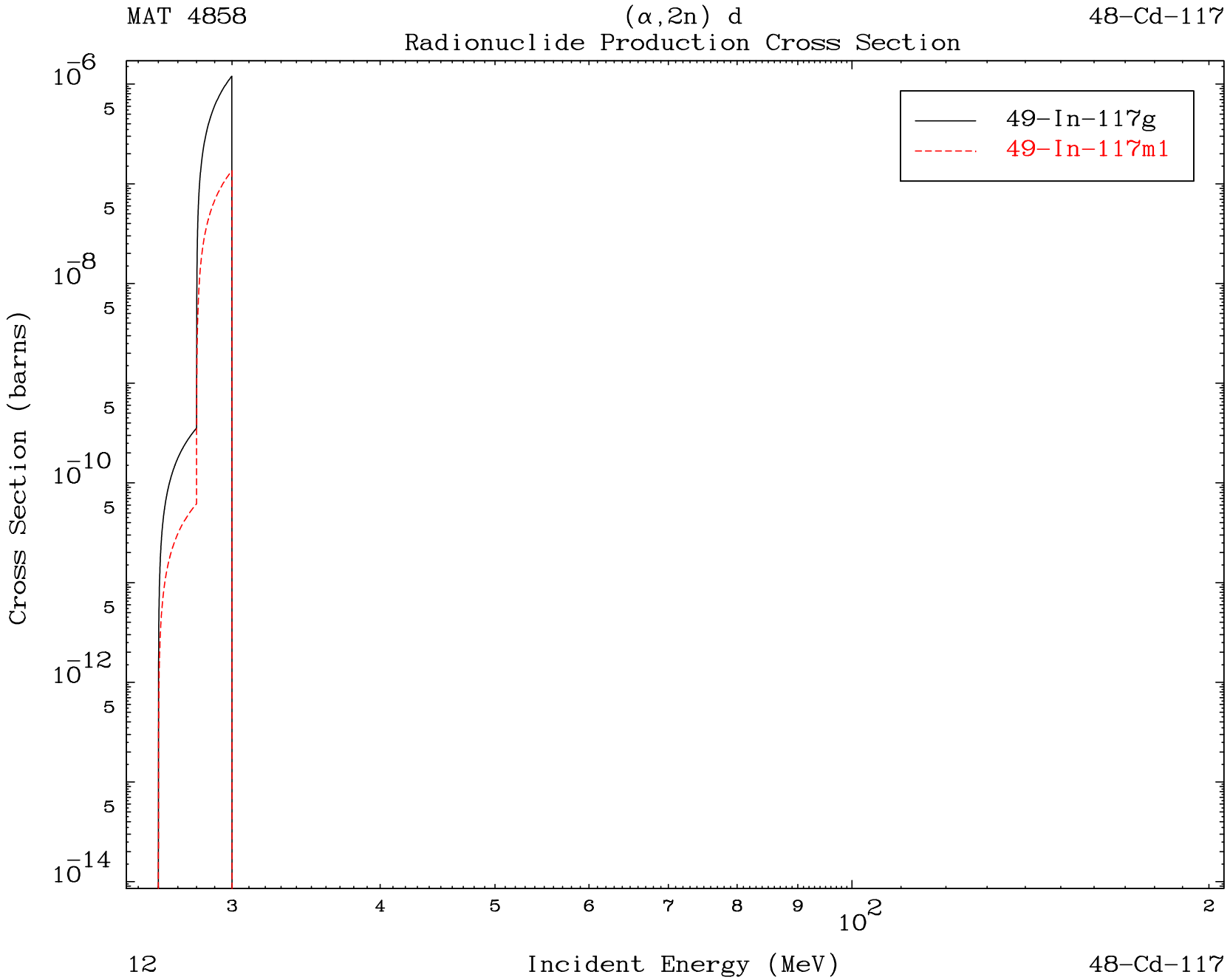

MAT 4858
(α,p) Levels
48-Cd-117
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
7
48-Cd-117

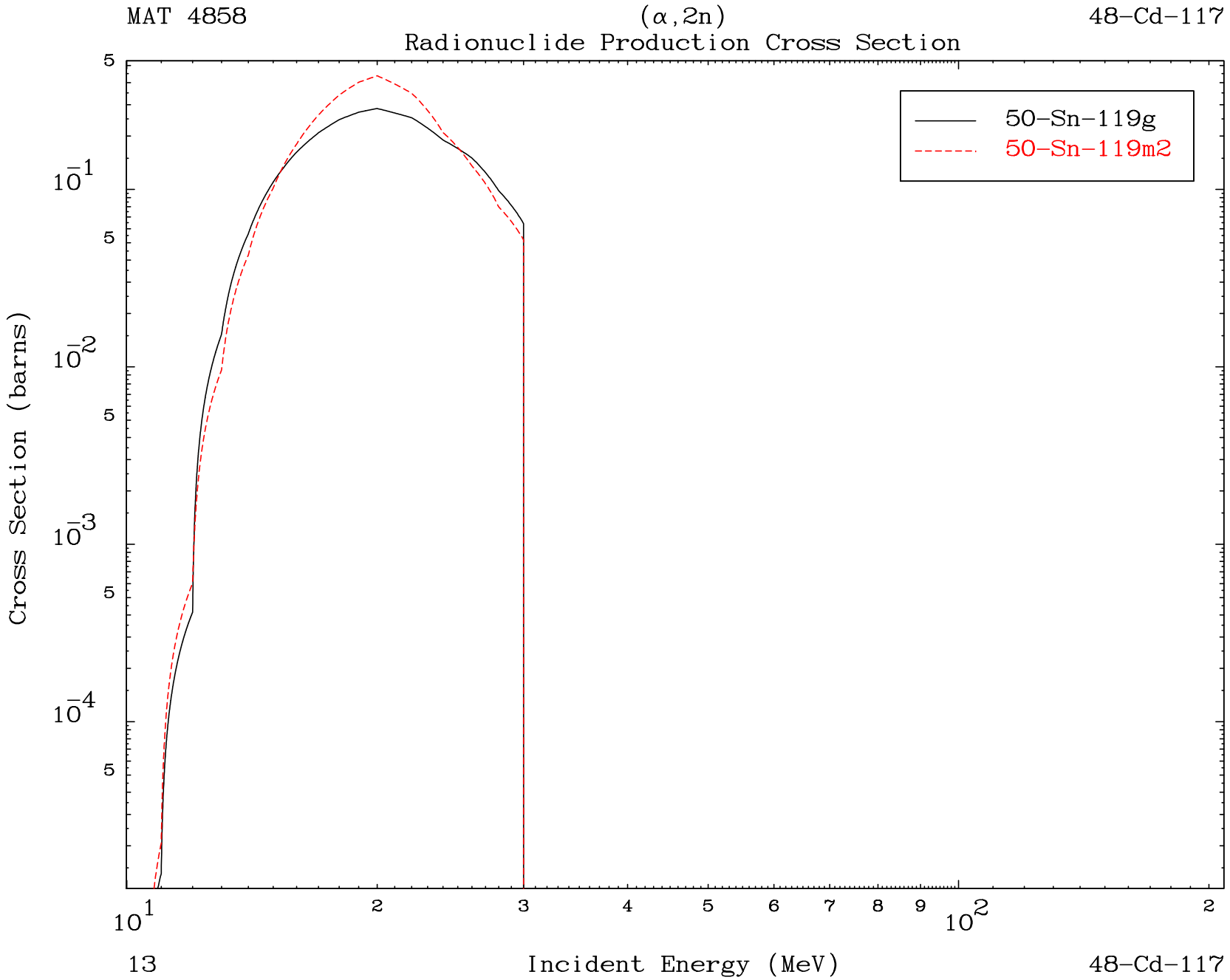

MAT 4858
(α,d) Levels
48-Cd-117
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
Incident Energy (MeV)
48-Cd-117
8

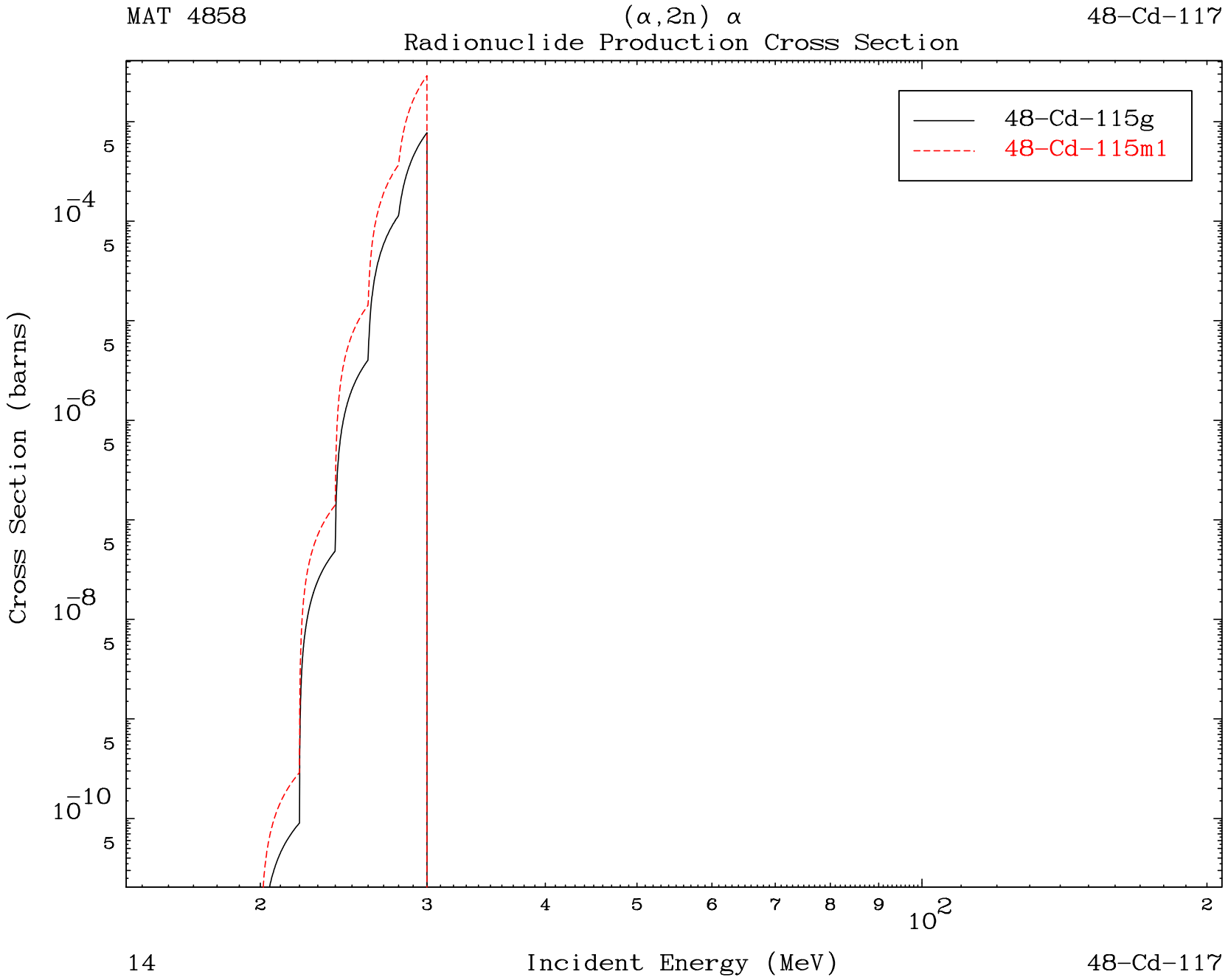

MAT 4858
(α,t) Levels
48-Cd-117
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
48-Cd-117

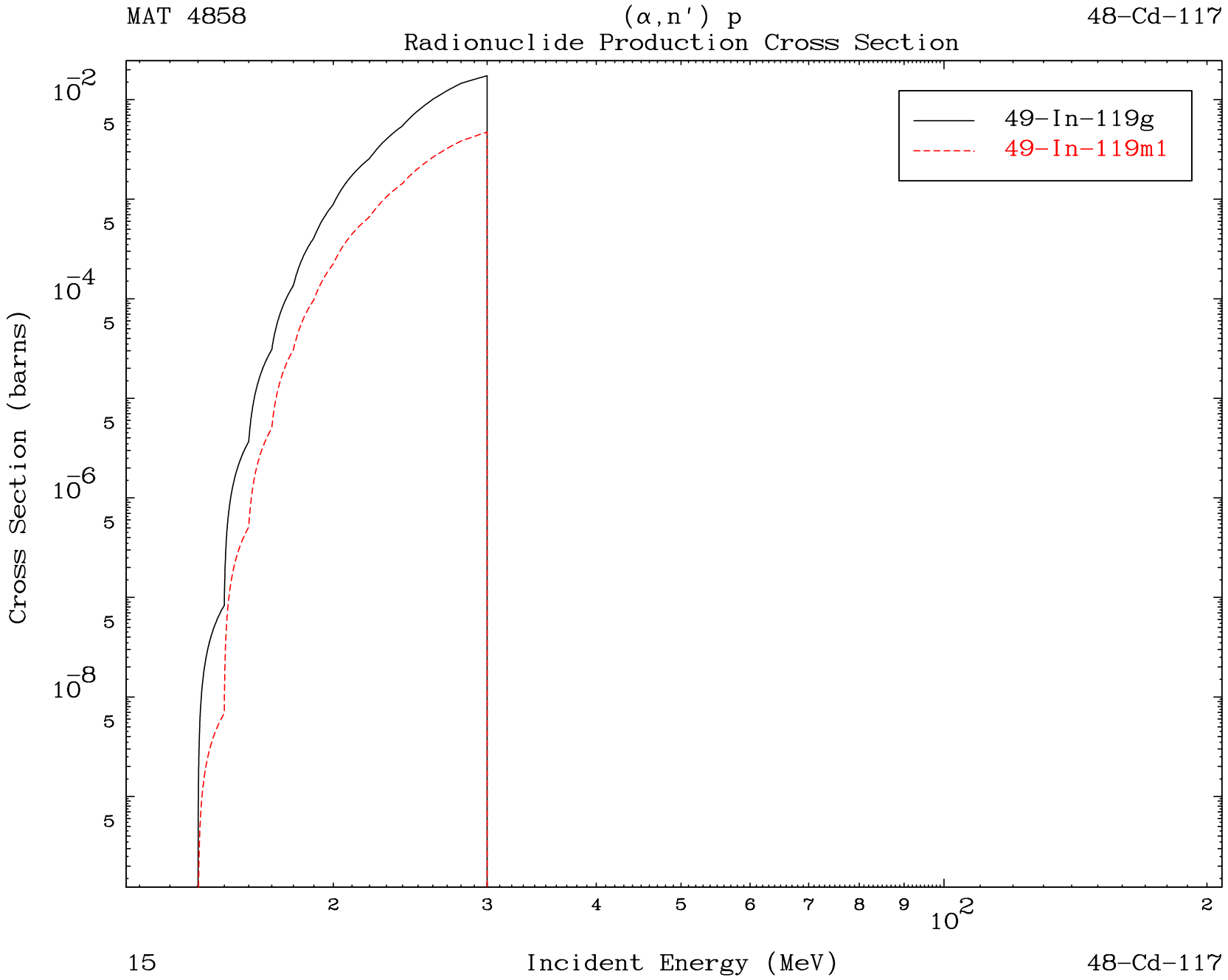

MAT 4858
(α,He3) Levels
48-Cd-117
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
10
Incident Energy (MeV)
48-Cd-117

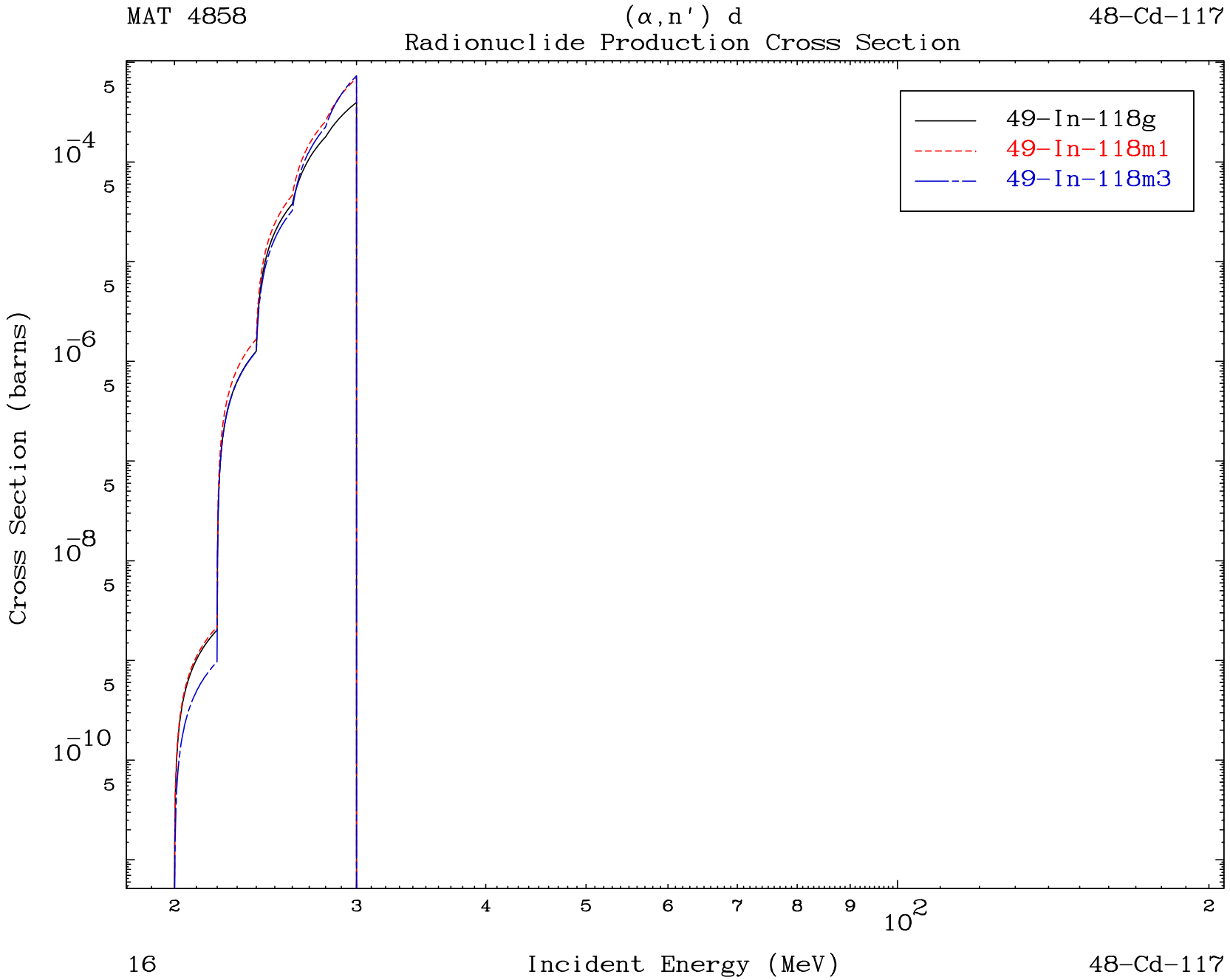

MAT 4858
(α,α) Levels
48-Cd-117
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
11
48-Cd-117

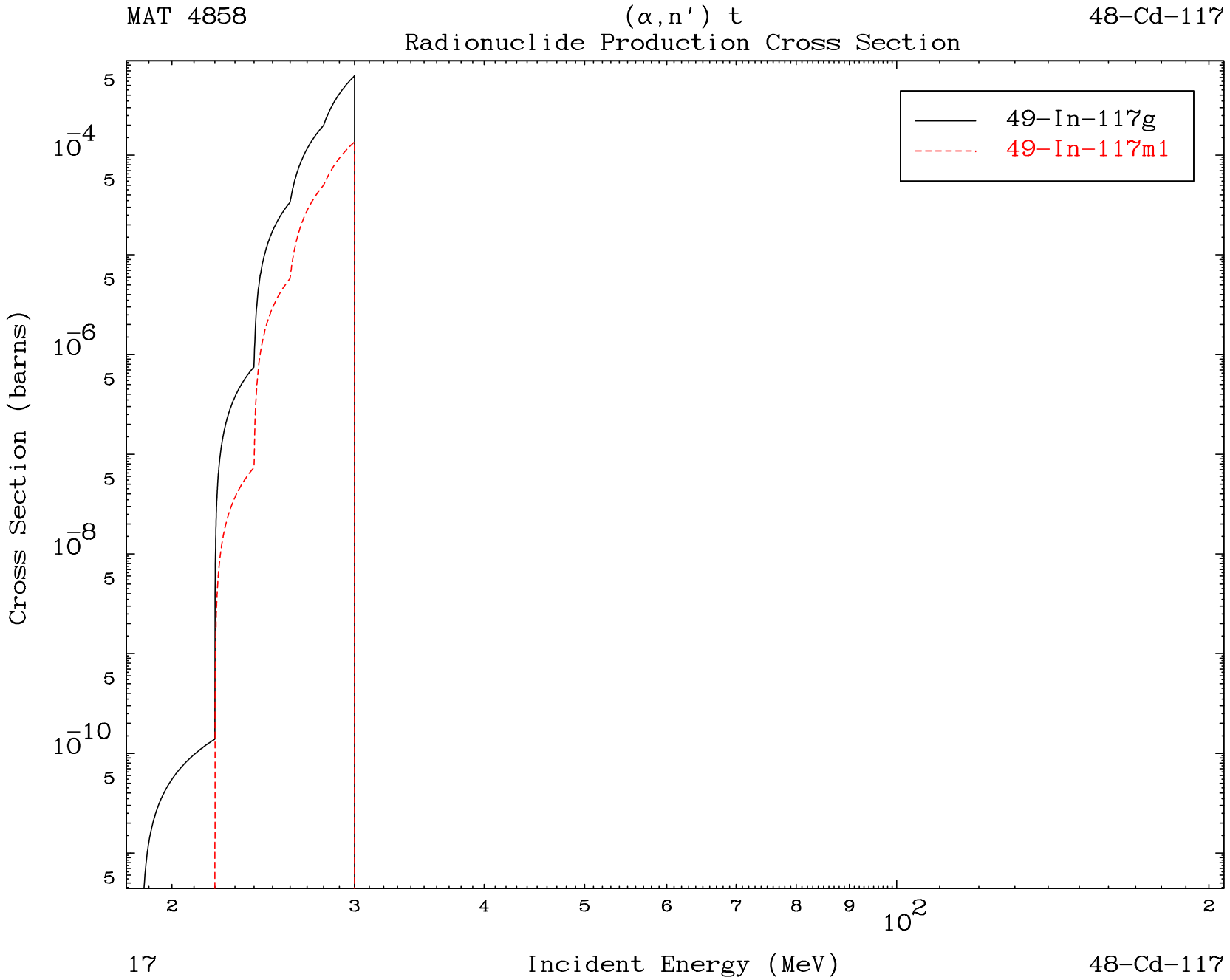

MAT 4858
(α,2n) d
48-Cd-117
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
Incident Energy (MeV)
12
48-Cd-117

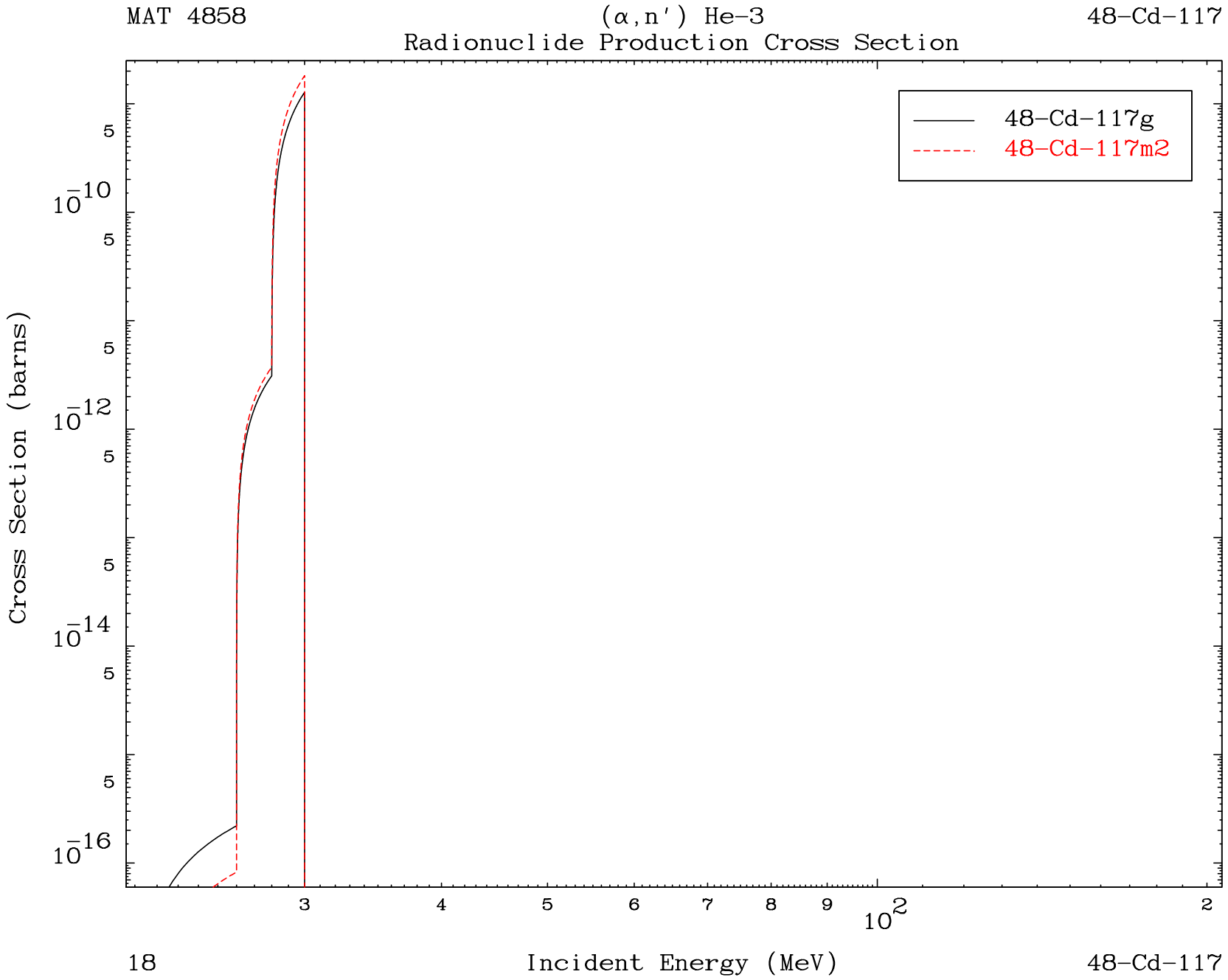

MAT 4858
(α,2n)
48-Cd-117
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
Incident Energy (MeV)
48-Cd-117
13

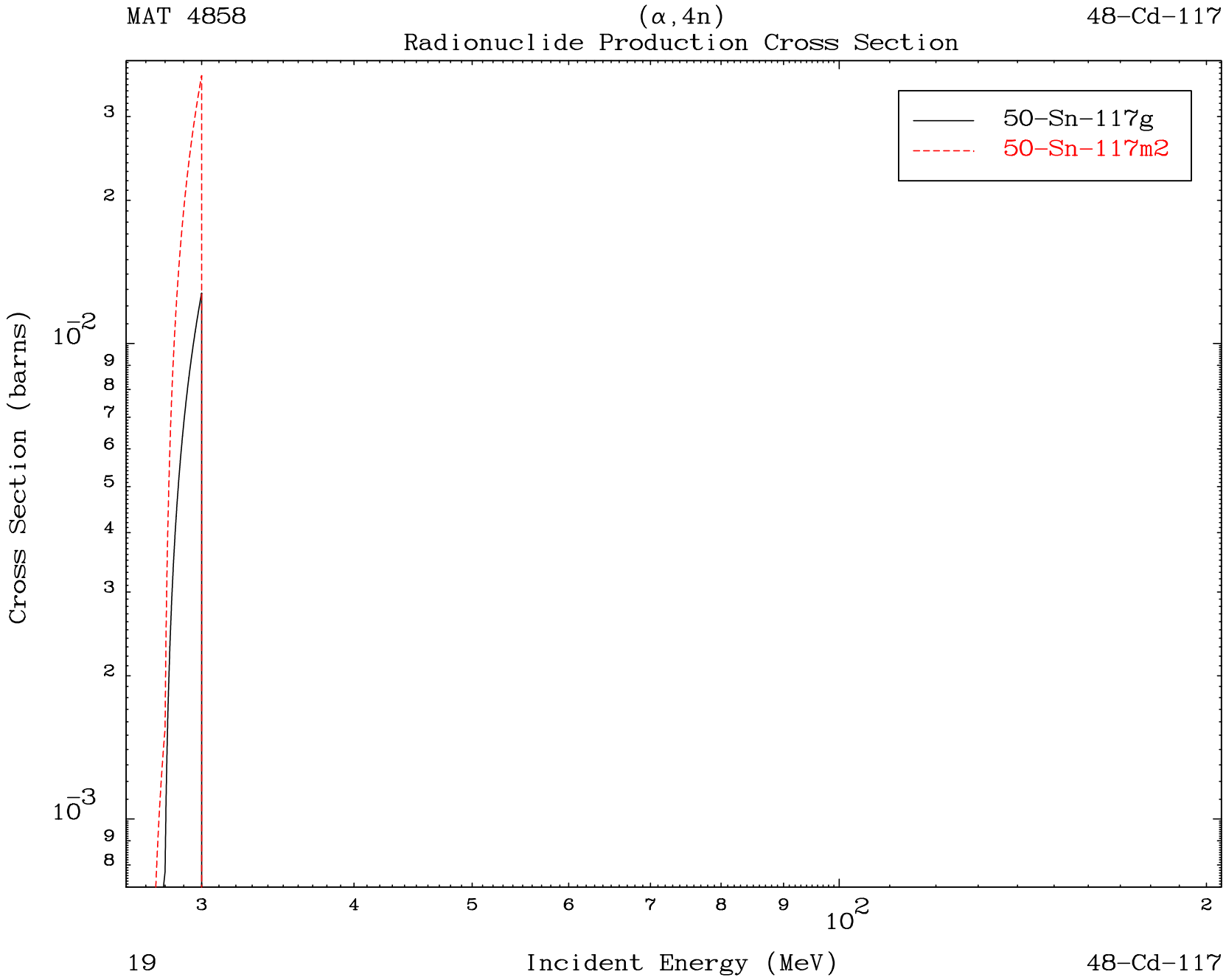

MAT 4858
(α,2n) α
48-Cd-117
Radionuclide Production Cross Section
48-Cd-115g
48-Cd-115m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
48-Cd-117

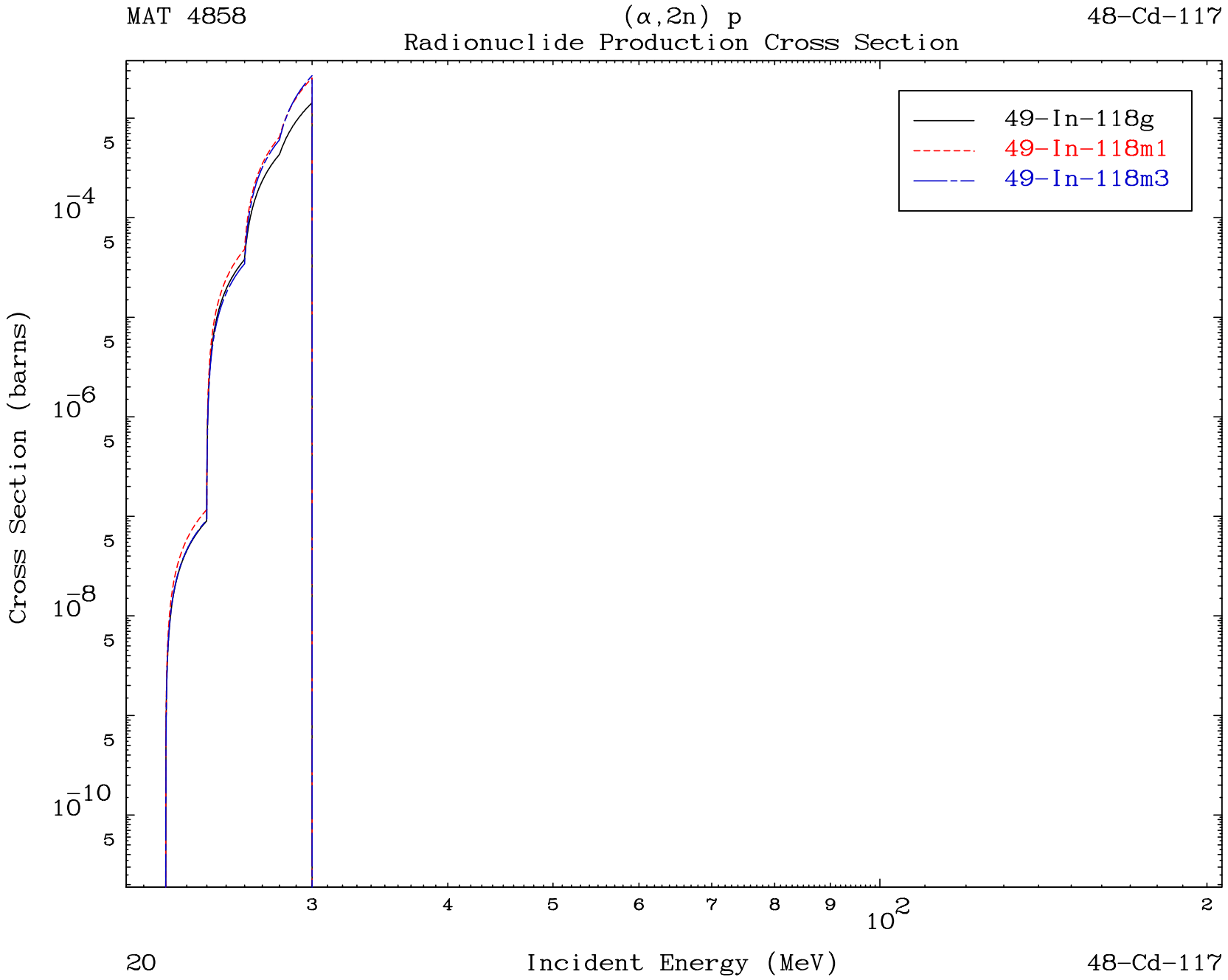

MAT 4858
(α,n') p
48-Cd-117
Radionuclide Production Cross Section
49-In-119g
49-In-119m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
48-Cd-117

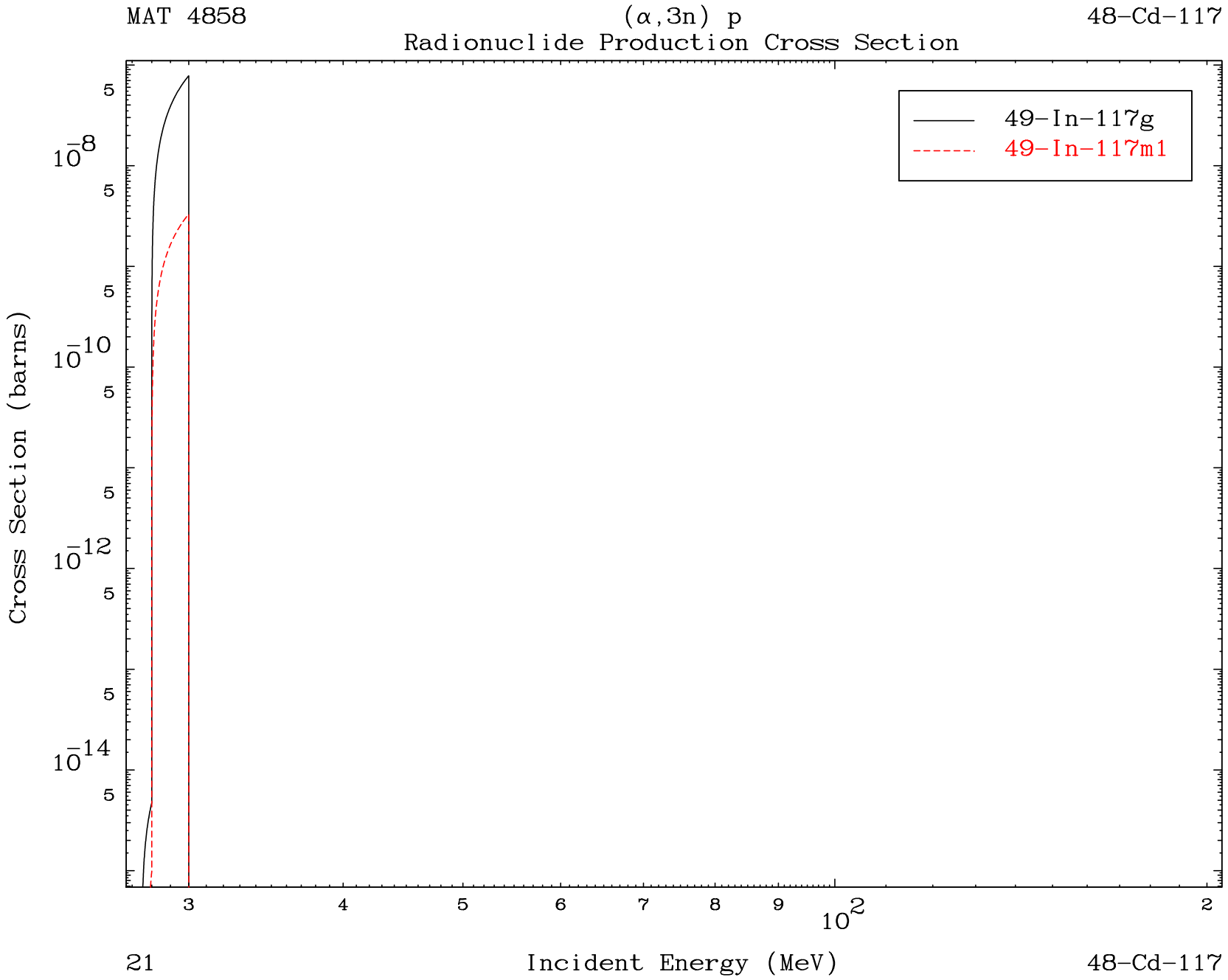

MAT 4858
(α,n') d
48-Cd-117
Radionuclide Production Cross Section
49-In-118g
49-In-118m1
49-In-118m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
48-Cd-117

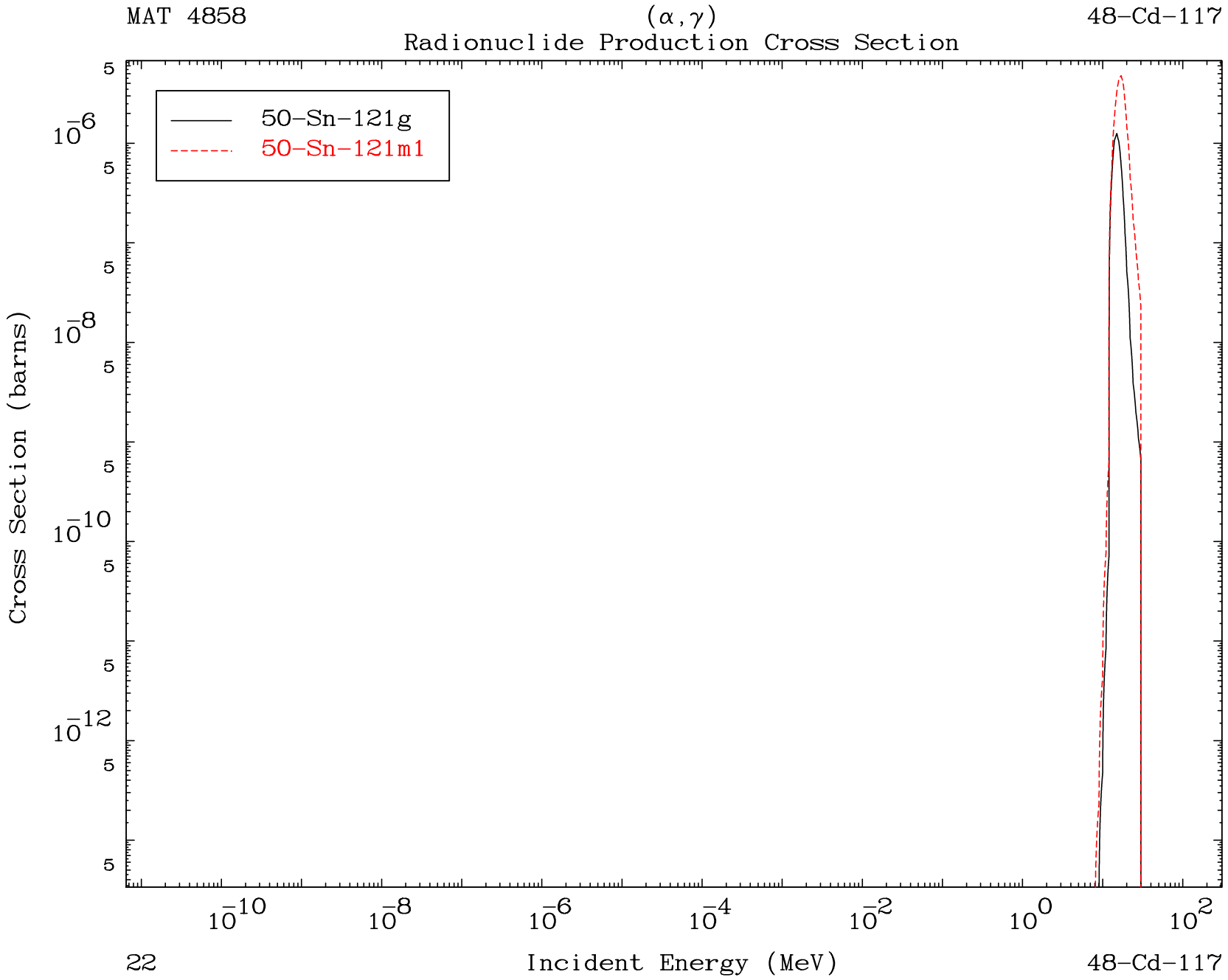

MAT 4858
(α,n') t
48-Cd-117
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
48-Cd-117

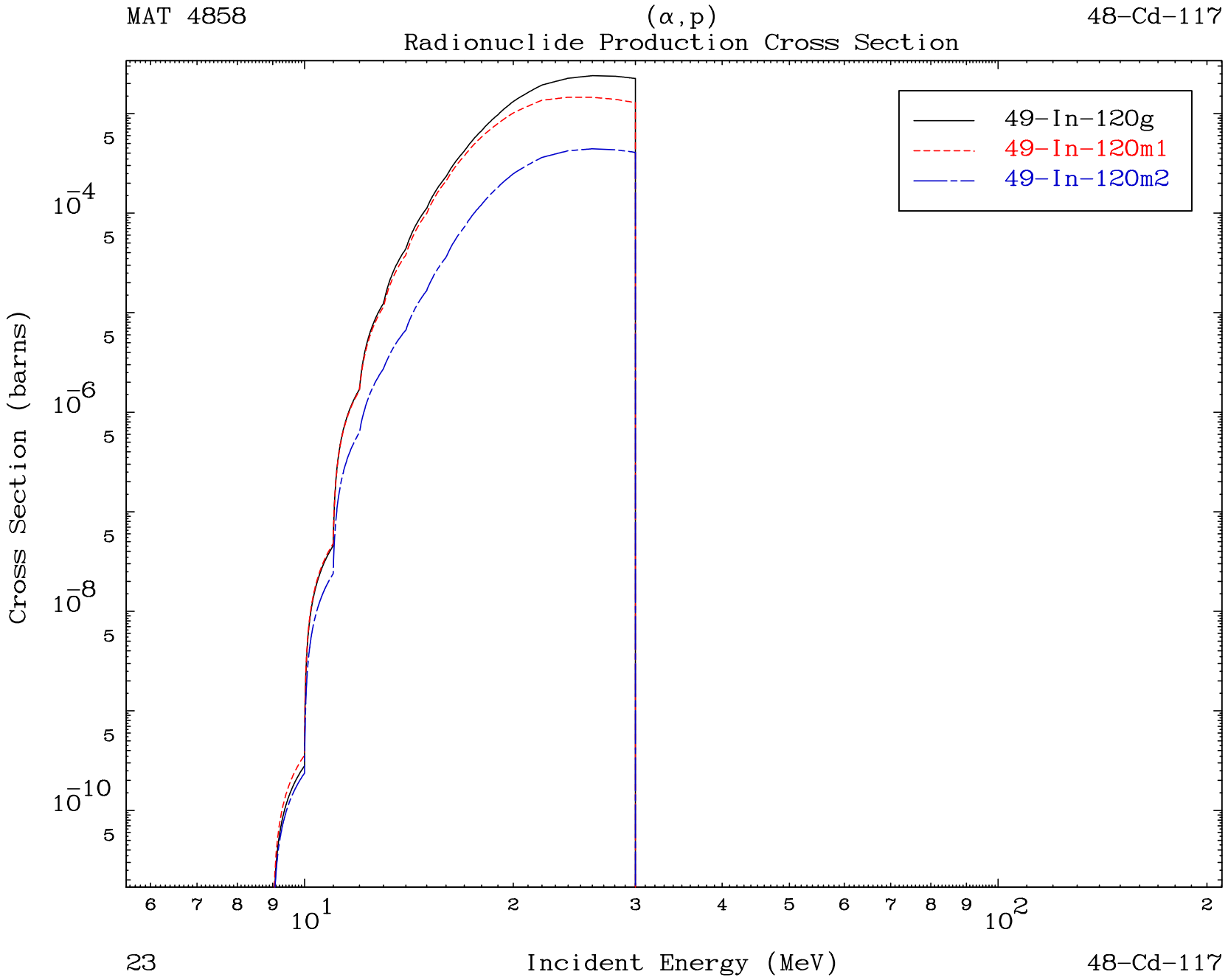

MAT 4858
(α,n') He-3
48-Cd-117
Radionuclide Production Cross Section
48-Cd-117g
48-Cd-117m2
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
48-Cd-117

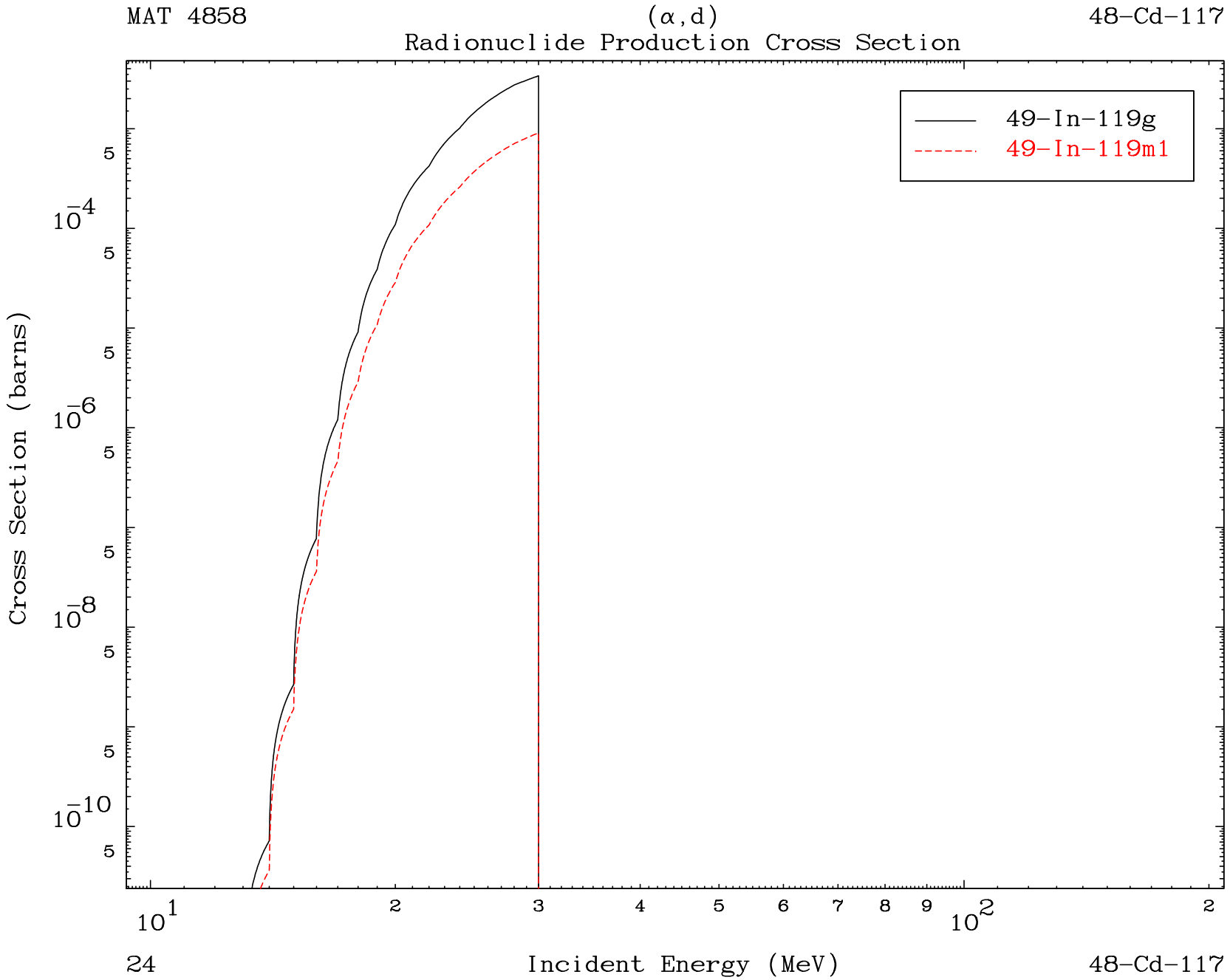

MAT 4858
(α,4n)
48-Cd-117
Radionuclide Production Cross Section
50-Sn-117g
50-Sn-117m2
Cross Section (barns)
10^-2
10^-3
3
2
9
8
7
6
5
4
3
2
9
8
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
48-Cd-117

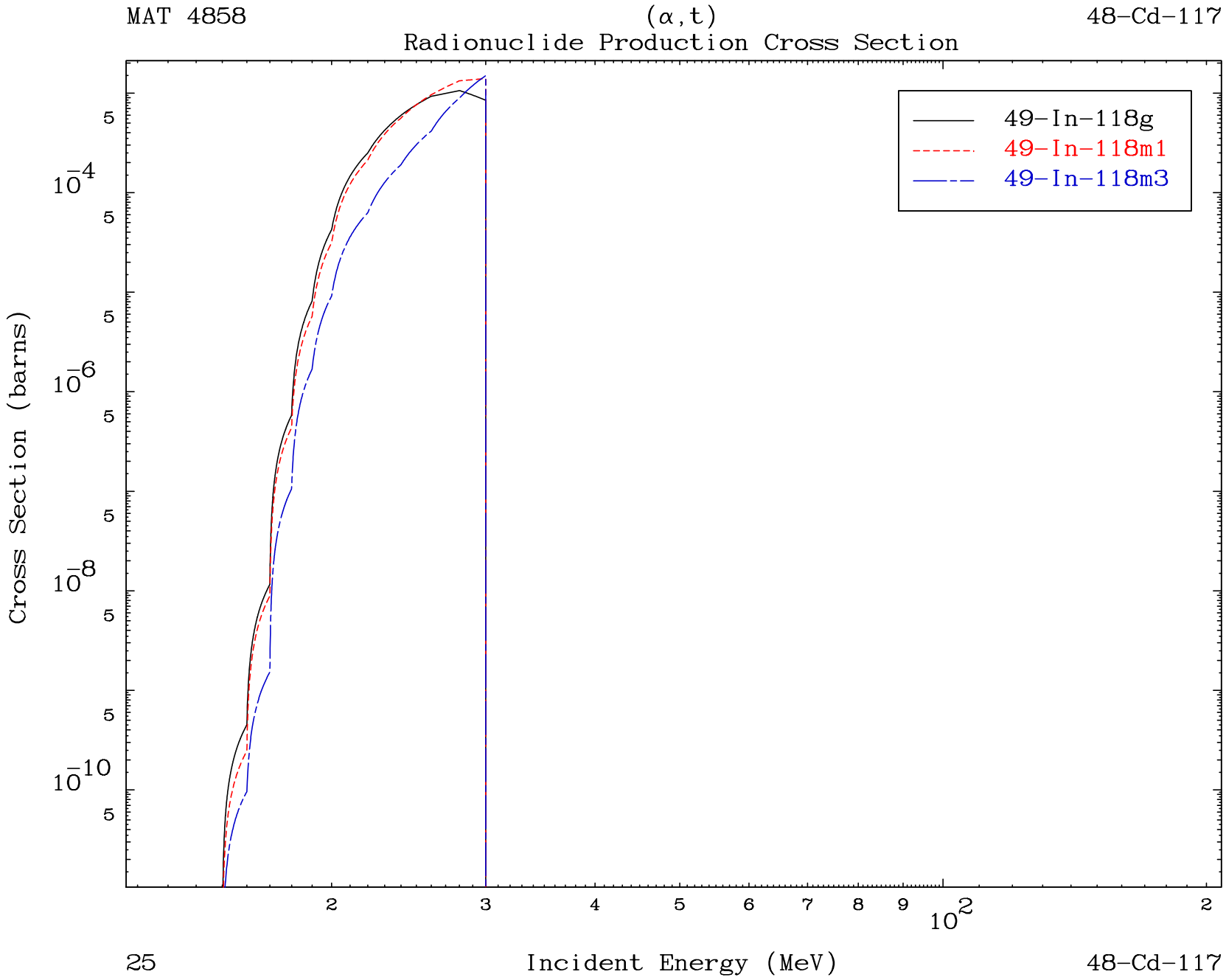

MAT 4858
(α,2n) p
48-Cd-117
Radionuclide Production Cross Section
49-In-118g
49-In-118m1
49-In-118m3
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
6
7
8
9
10 2
2
20
Incident Energy (MeV)
48-Cd-117

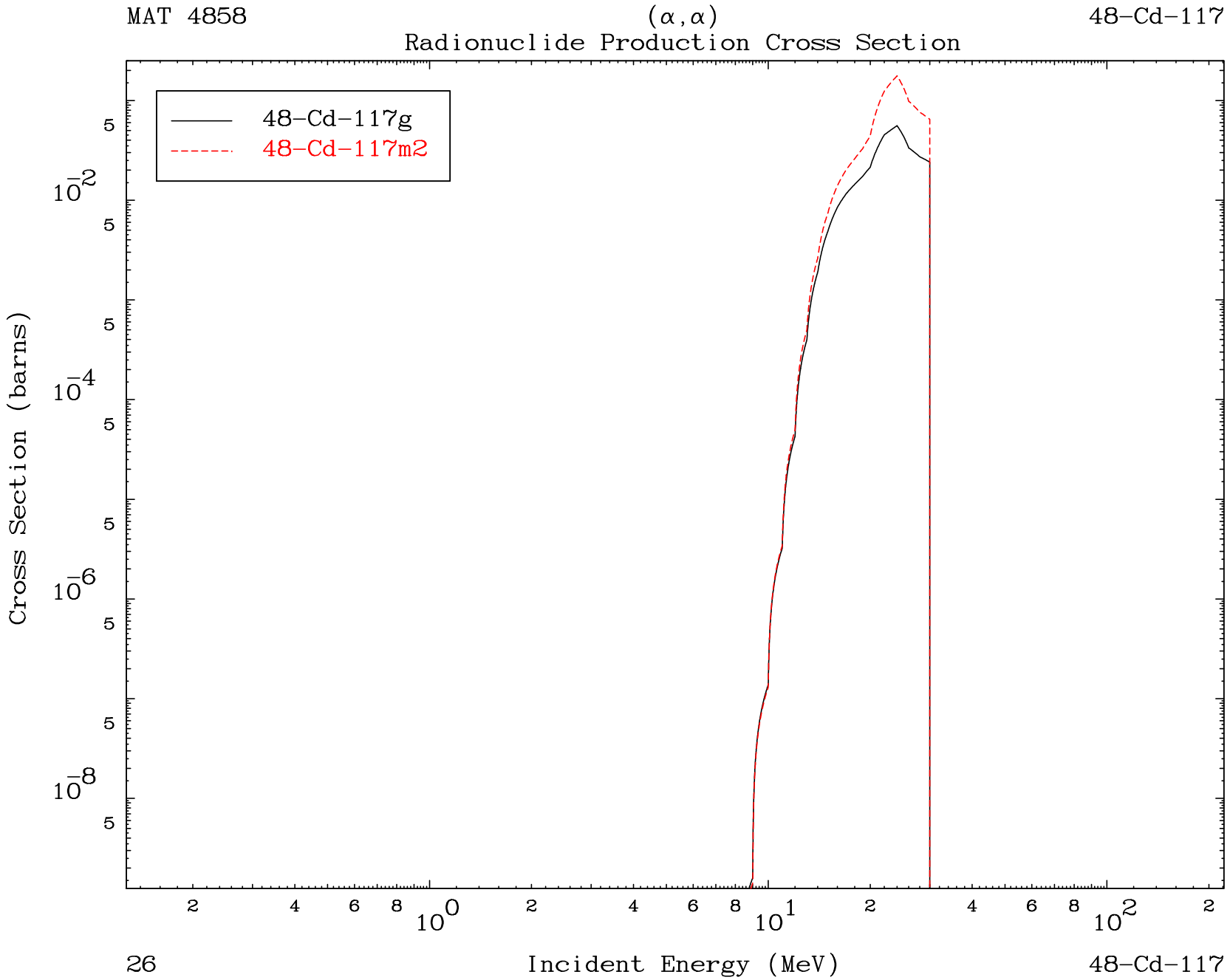

MAT 4858
(α,3n) p
48-Cd-117
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
48-Cd-117

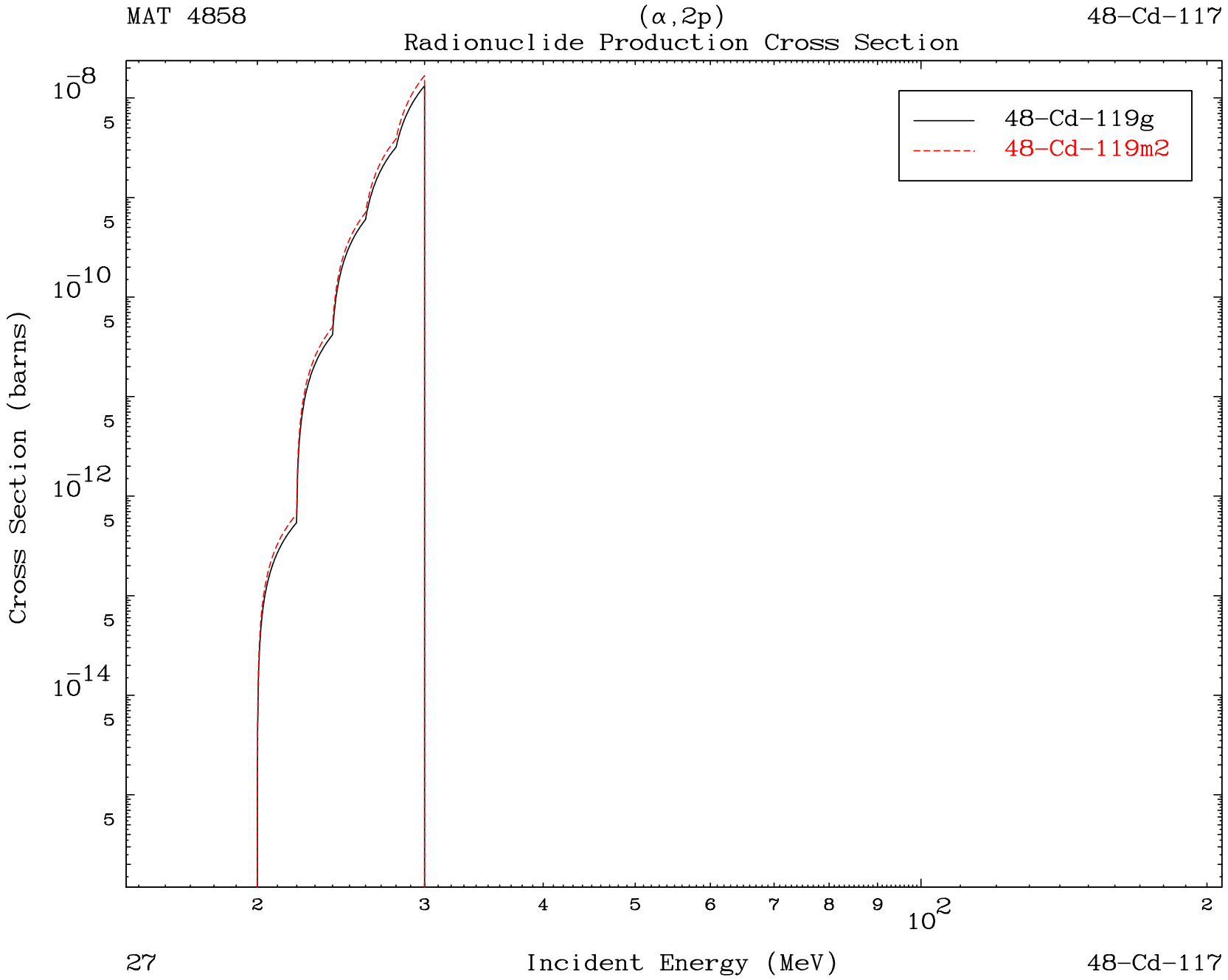

MAT 4858
(α,γ)
48-Cd-117
Radionuclide Production Cross Section
50-Sn-121g
50-Sn-121m1
Cross Section (barns)
Incident Energy (MeV)
22
48-Cd-117

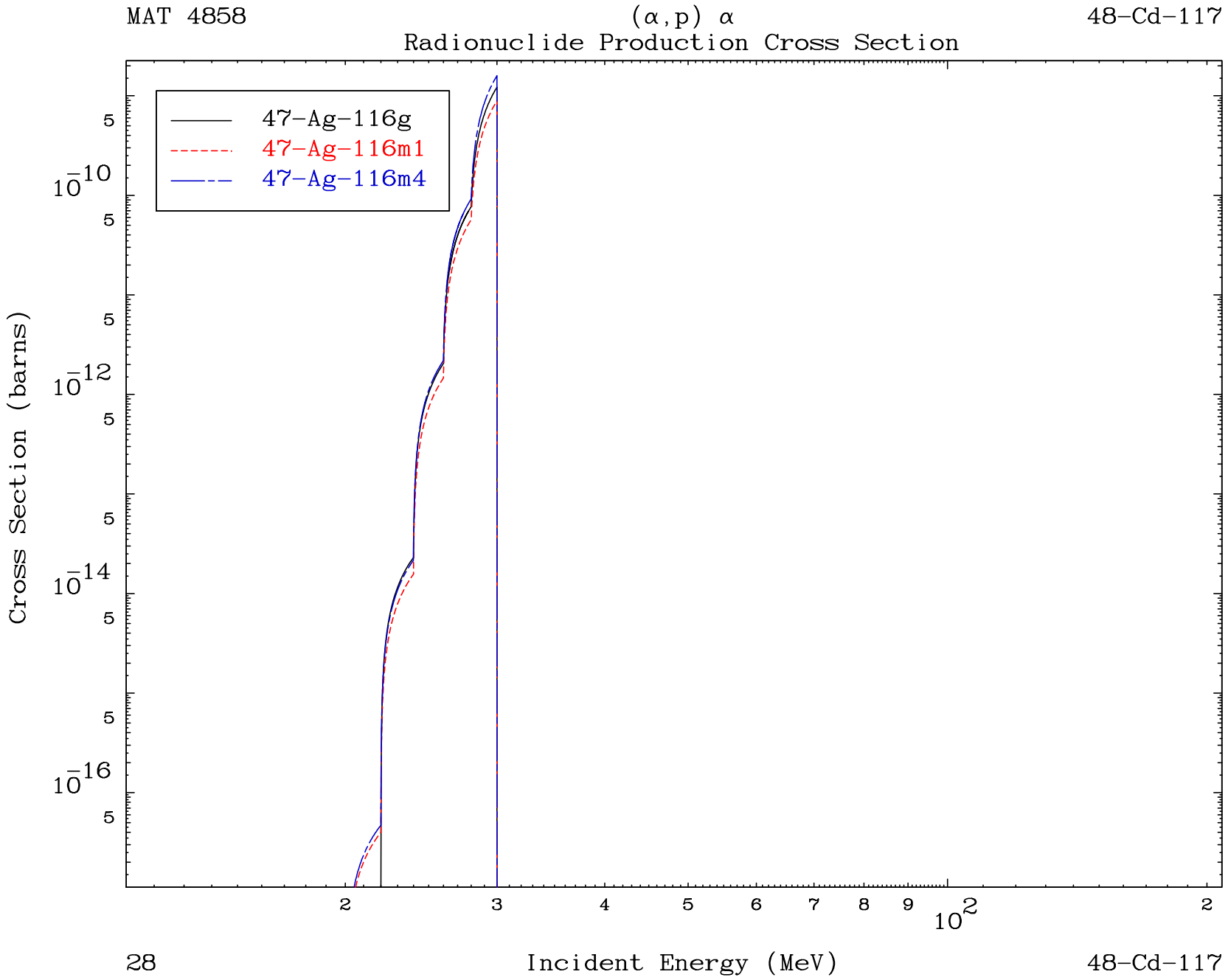

MAT 4858
(α,p)
48-Cd-117
Radionuclide Production Cross Section
49-In-120g
49-In-120m1
49-In-120m2
Cross Section (barns)
10-4
10-6
10-8
10-10
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
23
Incident Energy (MeV)
48-Cd-117


MAT 4858
(α,d)
48-Cd-117
Radionuclide Production Cross Section
49-In-119g
49-In-119m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
24
Incident Energy (MeV)
48-Cd-117


MAT 4858
(α,t)
48-Cd-117
Radionuclide Production Cross Section
49-In-118g
49-In-118m1
49-In-118m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
25
Incident Energy (MeV)
48-Cd-117


MAT 4858
(α,α)
48-Cd-117
Radionuclide Production Cross Section
48-Cd-117g
48-Cd-117m2
Cross Section (barns)
Incident Energy (MeV)
26
48-Cd-117


MAT 4858
(α,2p)
48-Cd-117
Radionuclide Production Cross Section
48-Cd-119g
48-Cd-119m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
27
Incident Energy (MeV)
48-Cd-117


MAT 4858
(α,p) α
48-Cd-117
Radionuclide Production Cross Section
47-Ag-116g
47-Ag-116m1
47-Ag-116m4
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
28
Incident Energy (MeV)
48-Cd-117