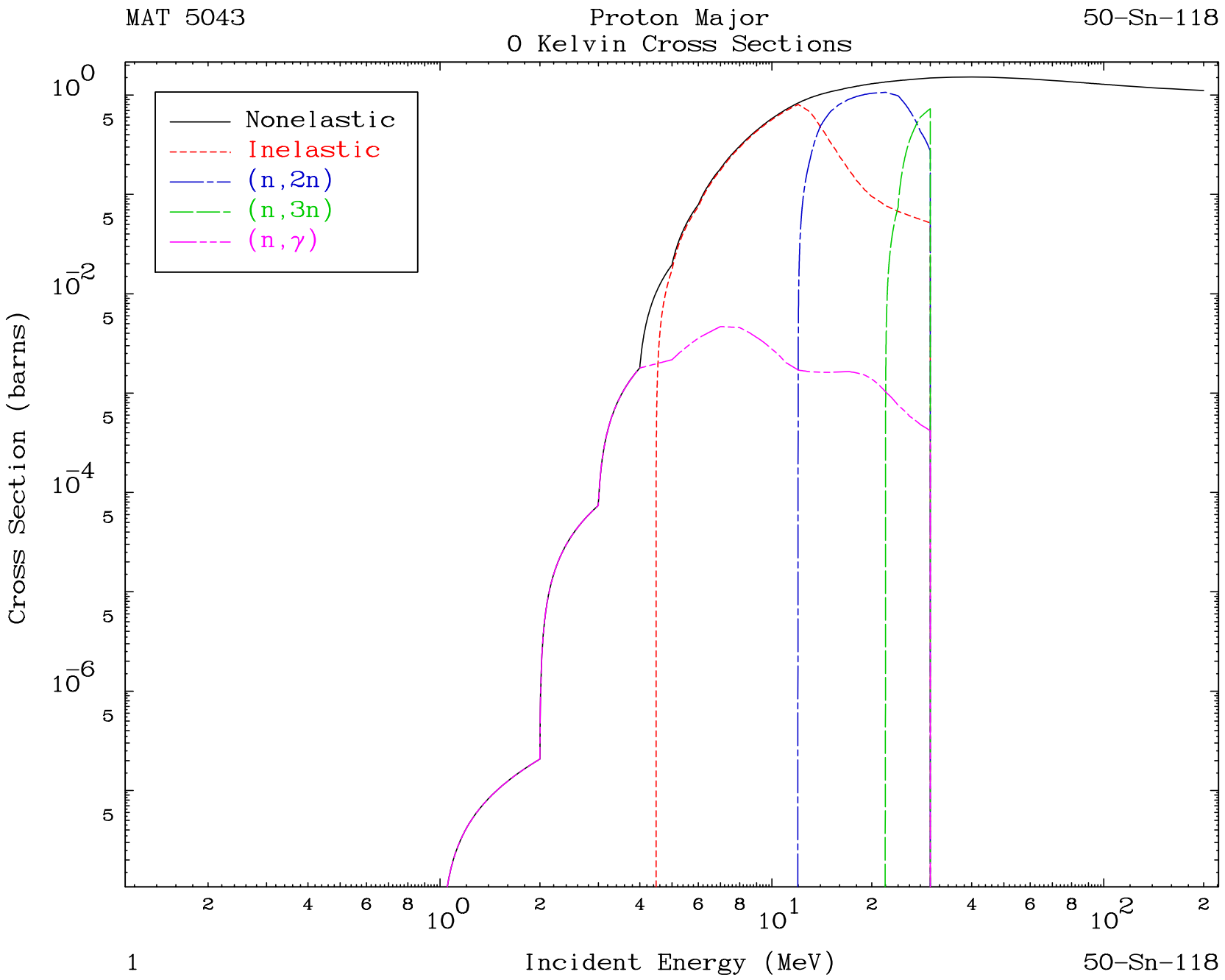
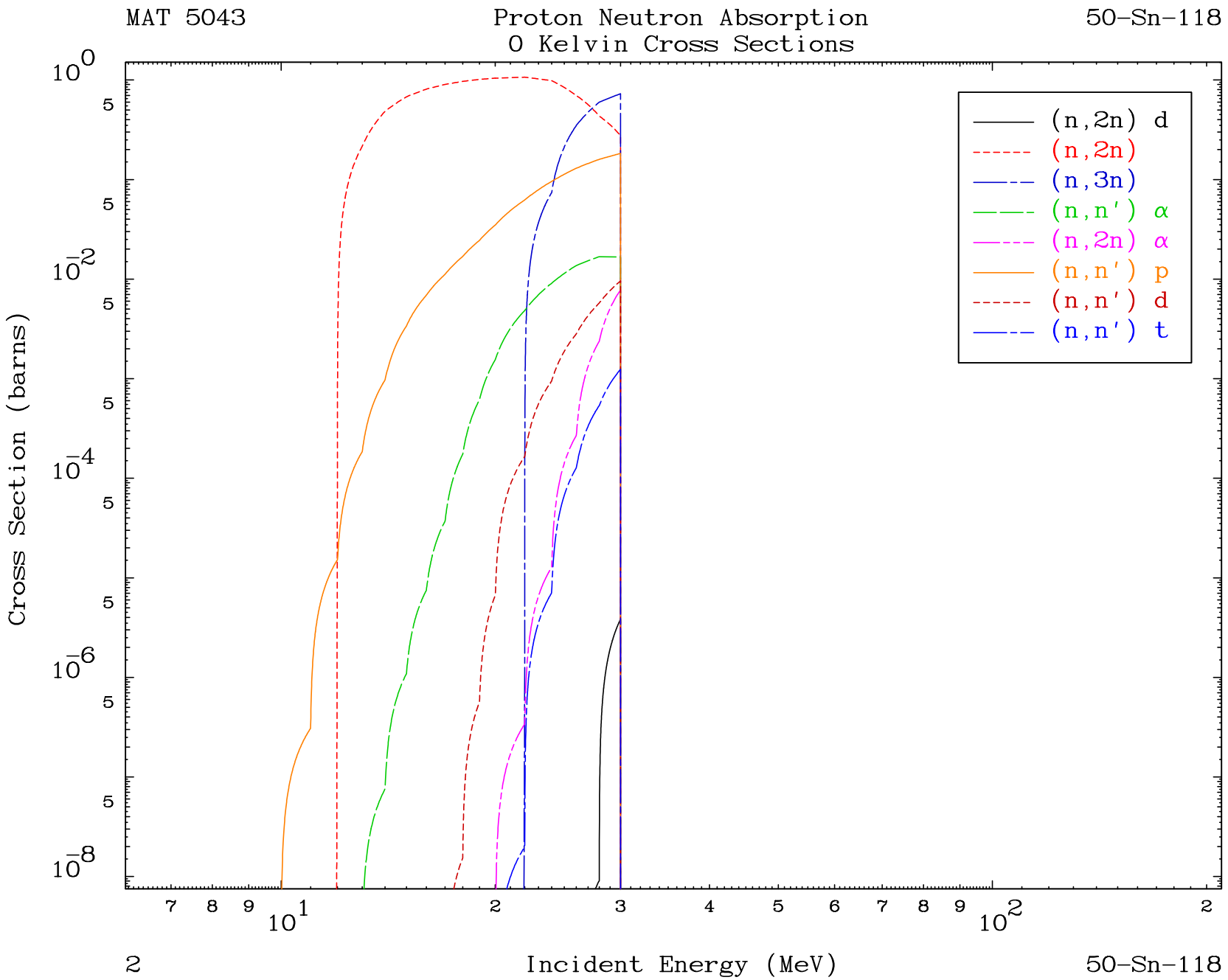
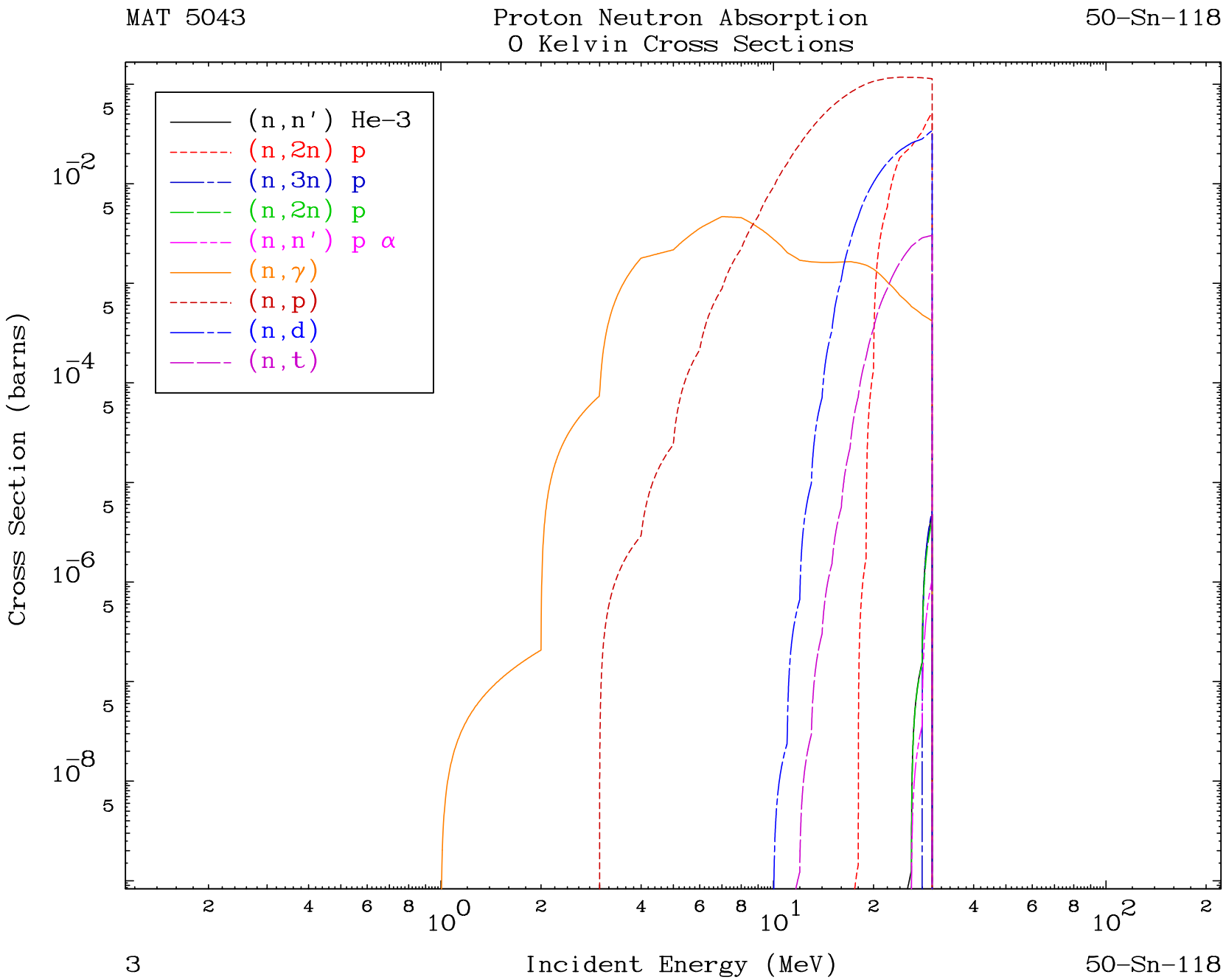
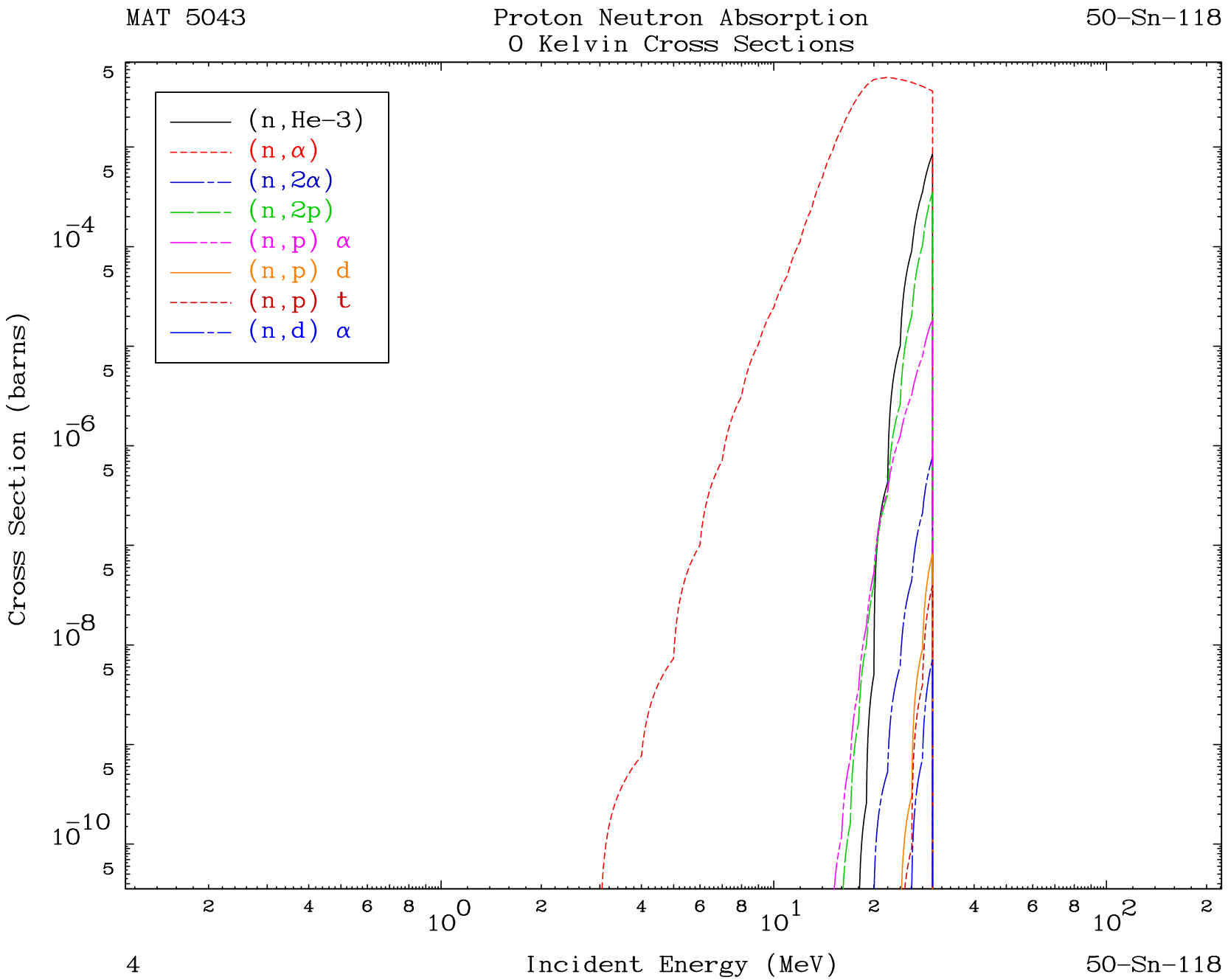
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

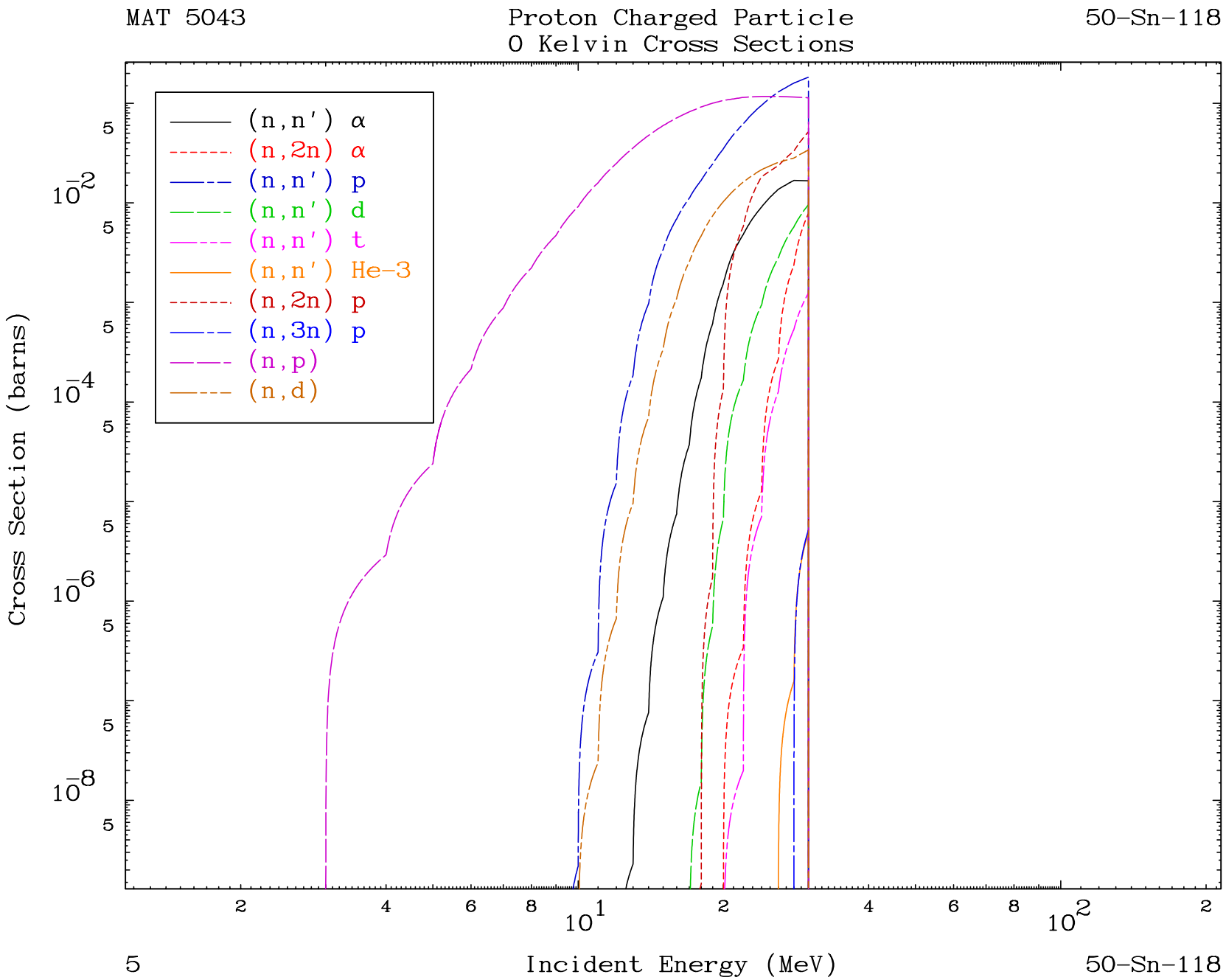
Press Mouse Button to Start

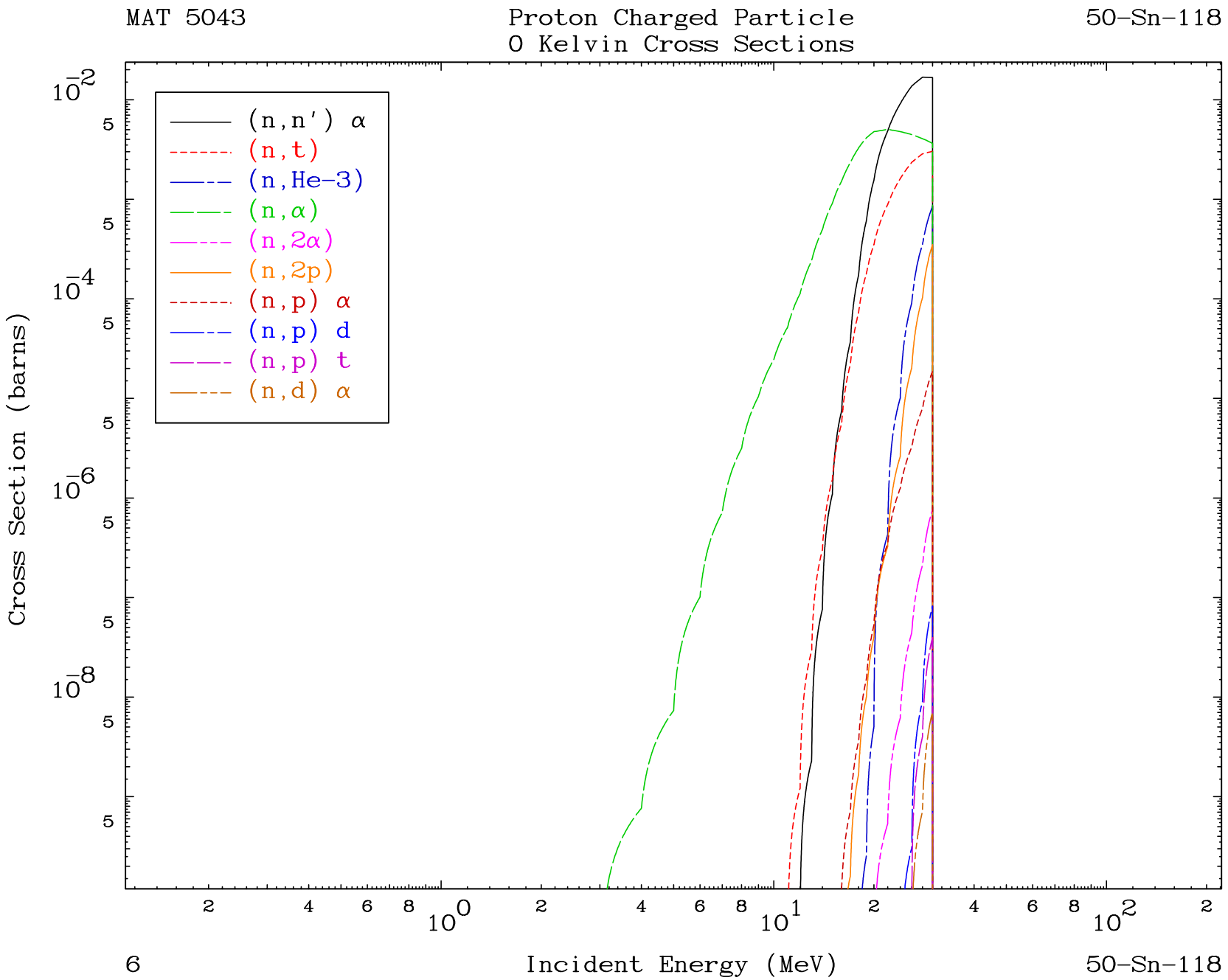

MAT 5043
Proton Major
50-Sn-118
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-118
1

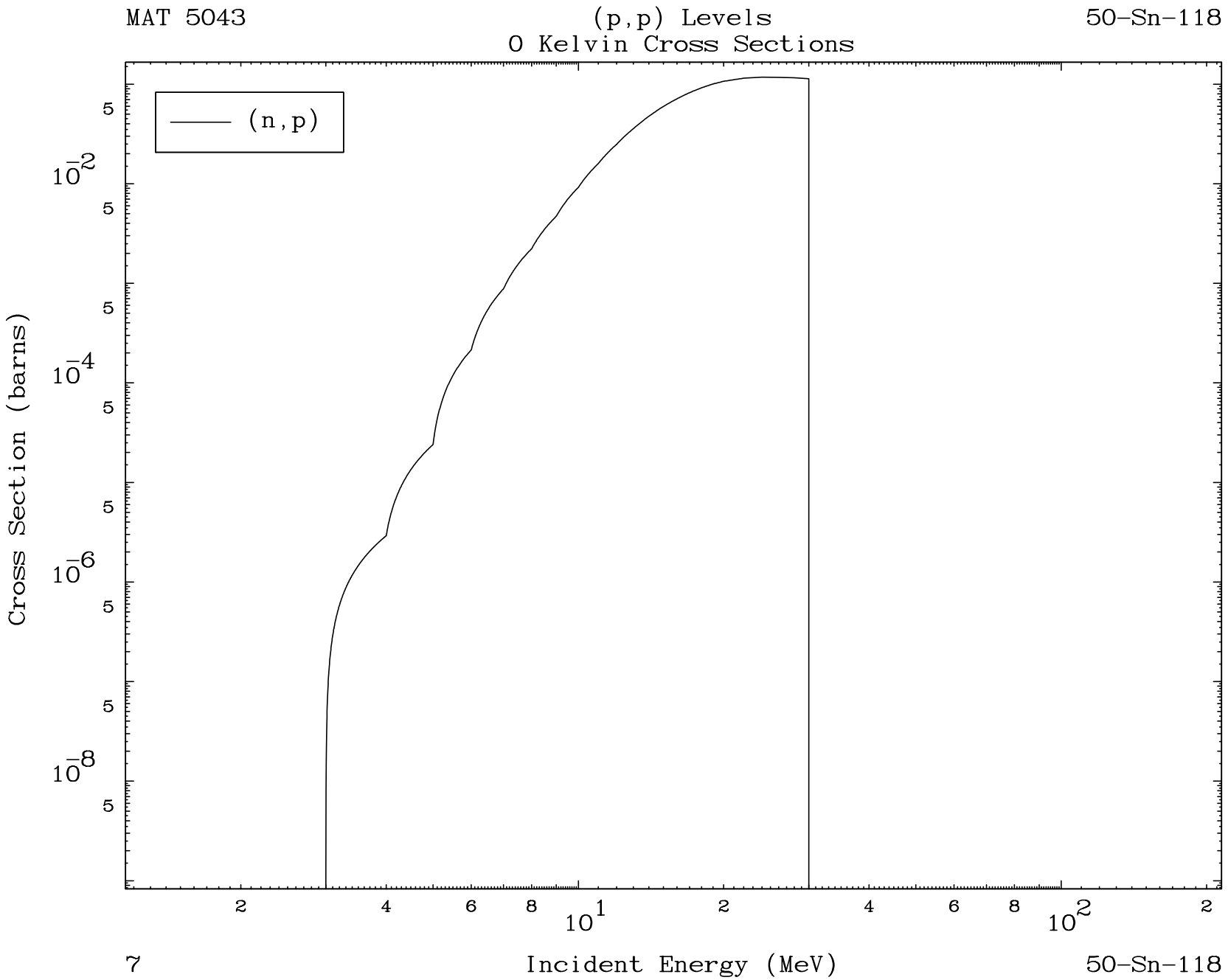

MAT 5043
Proton Neutron Absorption
0 Kelvin Cross Sections
50-Sn-118
Cross Section (barns)
Incident Energy (MeV)
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
50-Sn-118
2

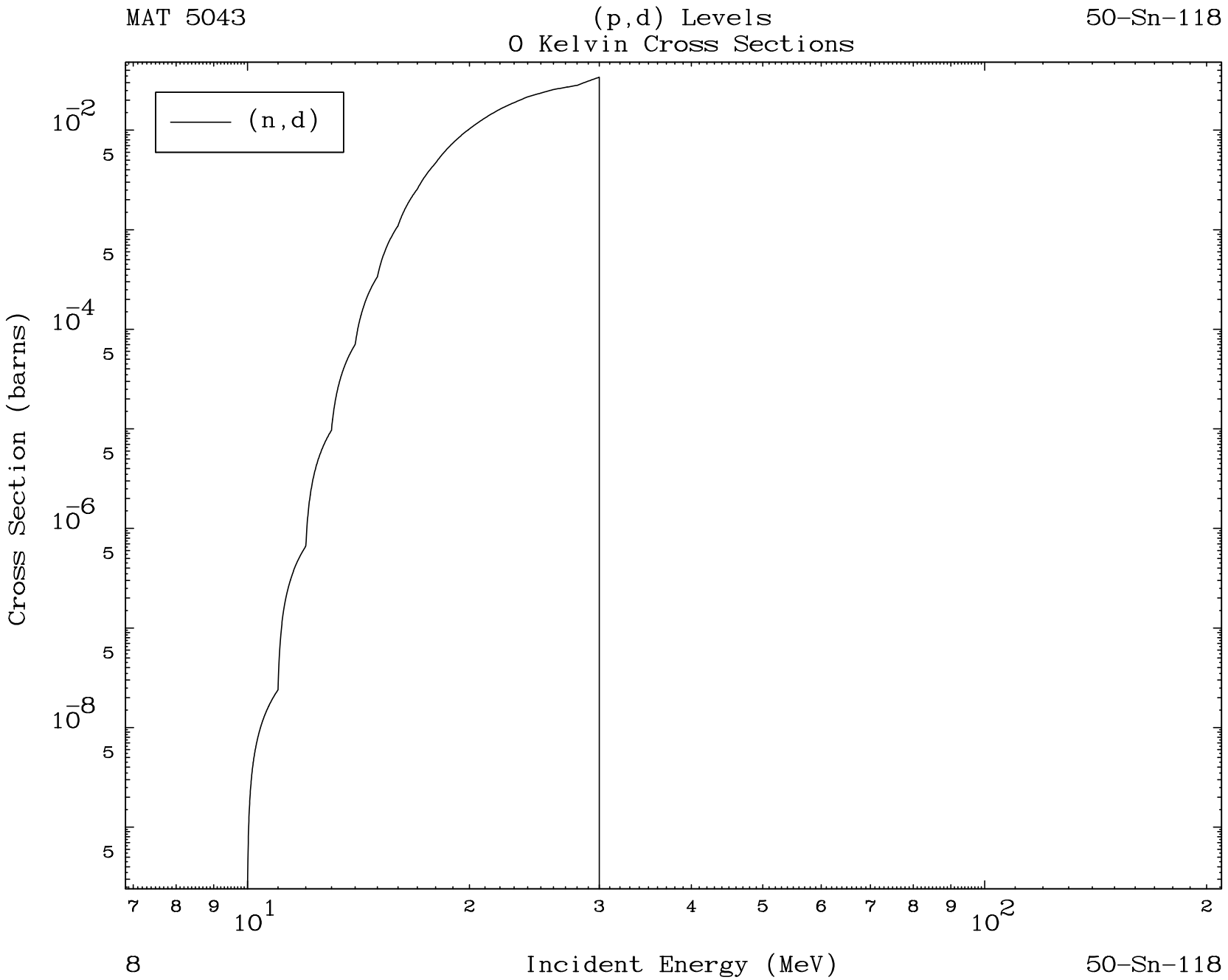

MAT 5043
Proton Neutron Absorption
0 Kelvin Cross Sections
50-Sn-118
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
50-Sn-118

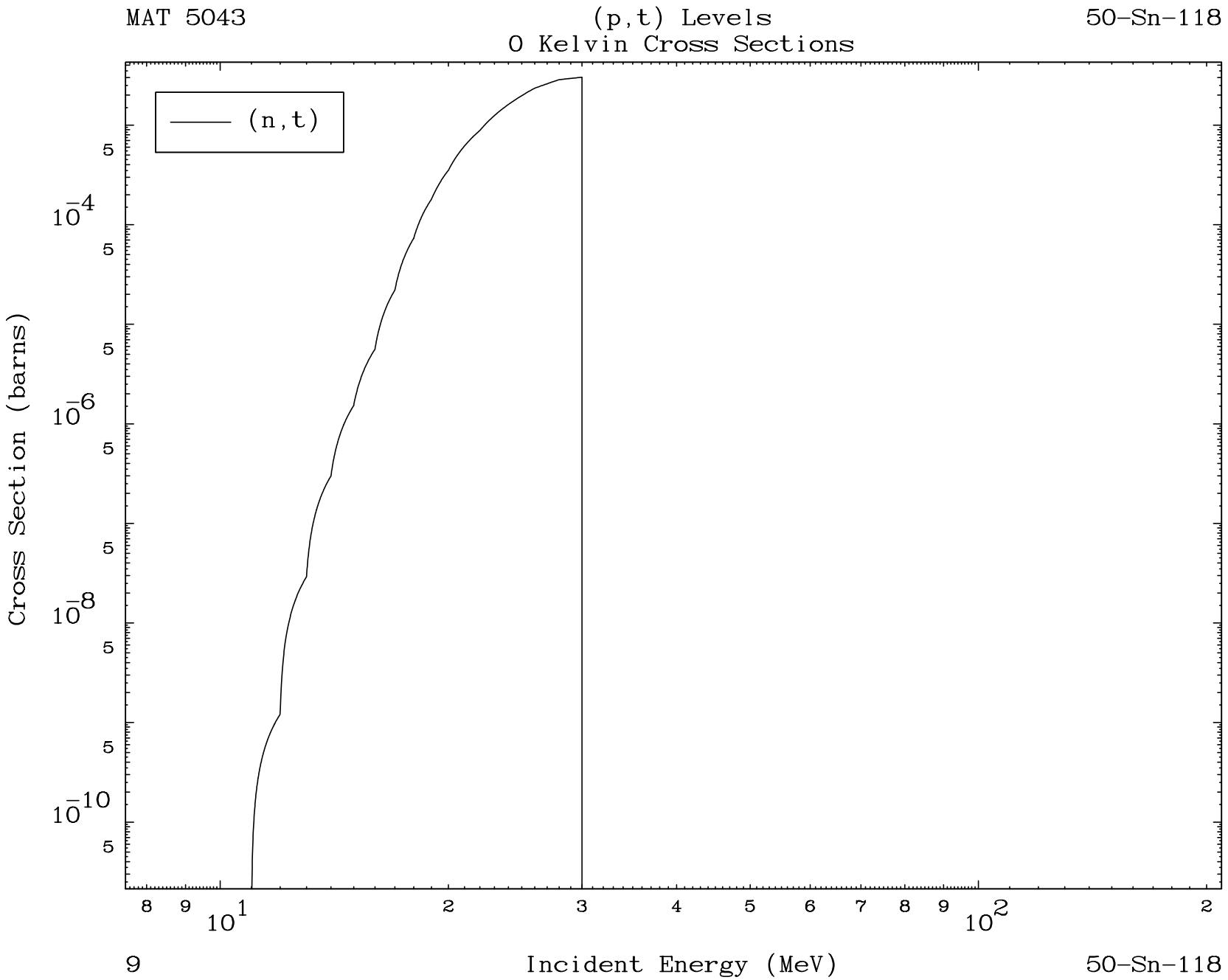

MAT 5043
Proton Neutron Absorption
0 Kelvin Cross Sections
50-Sn-118
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
50-Sn-118

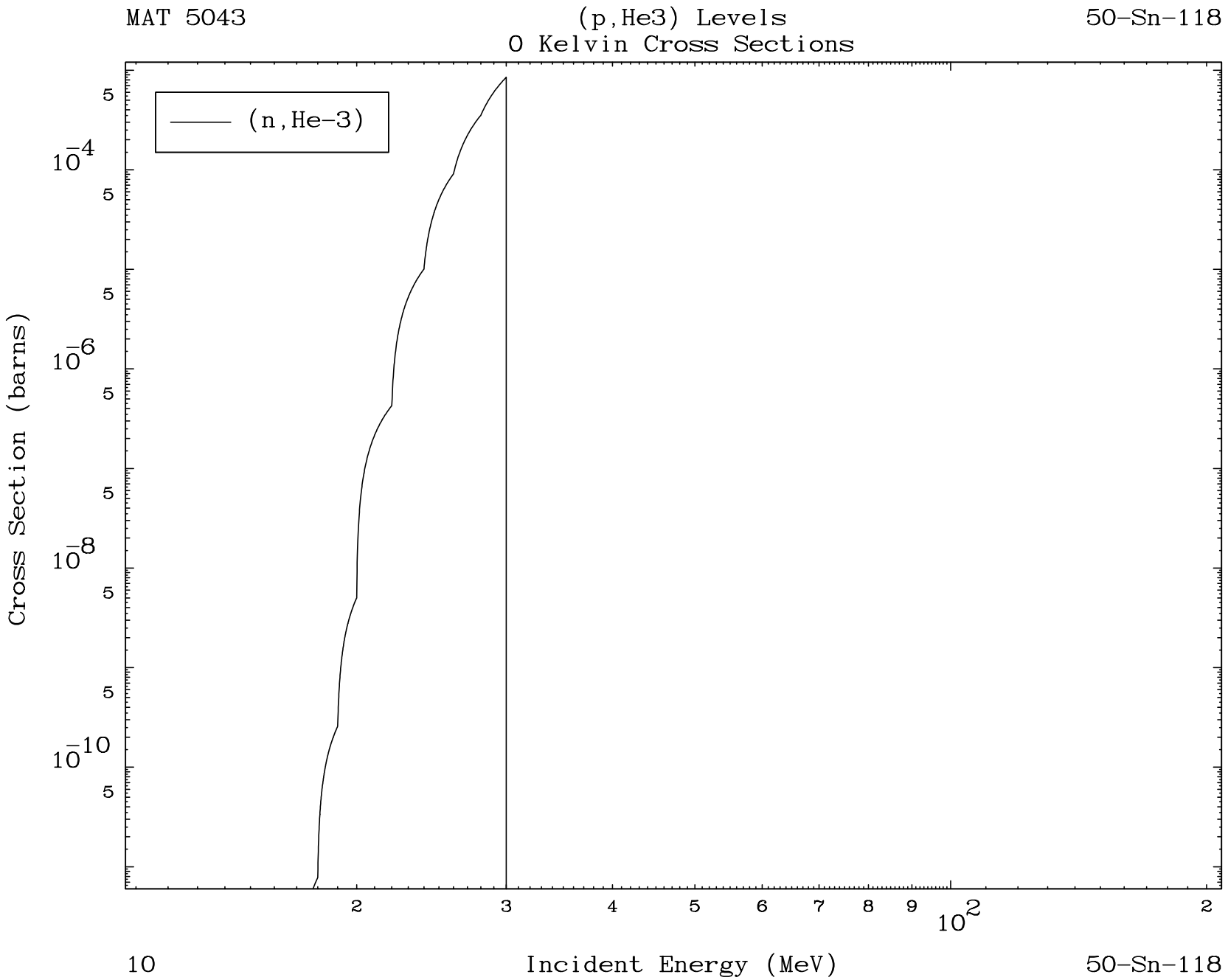

MAT 5043
Proton Charged Particle
0 Kelvin Cross Sections
50-Sn-118
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-118

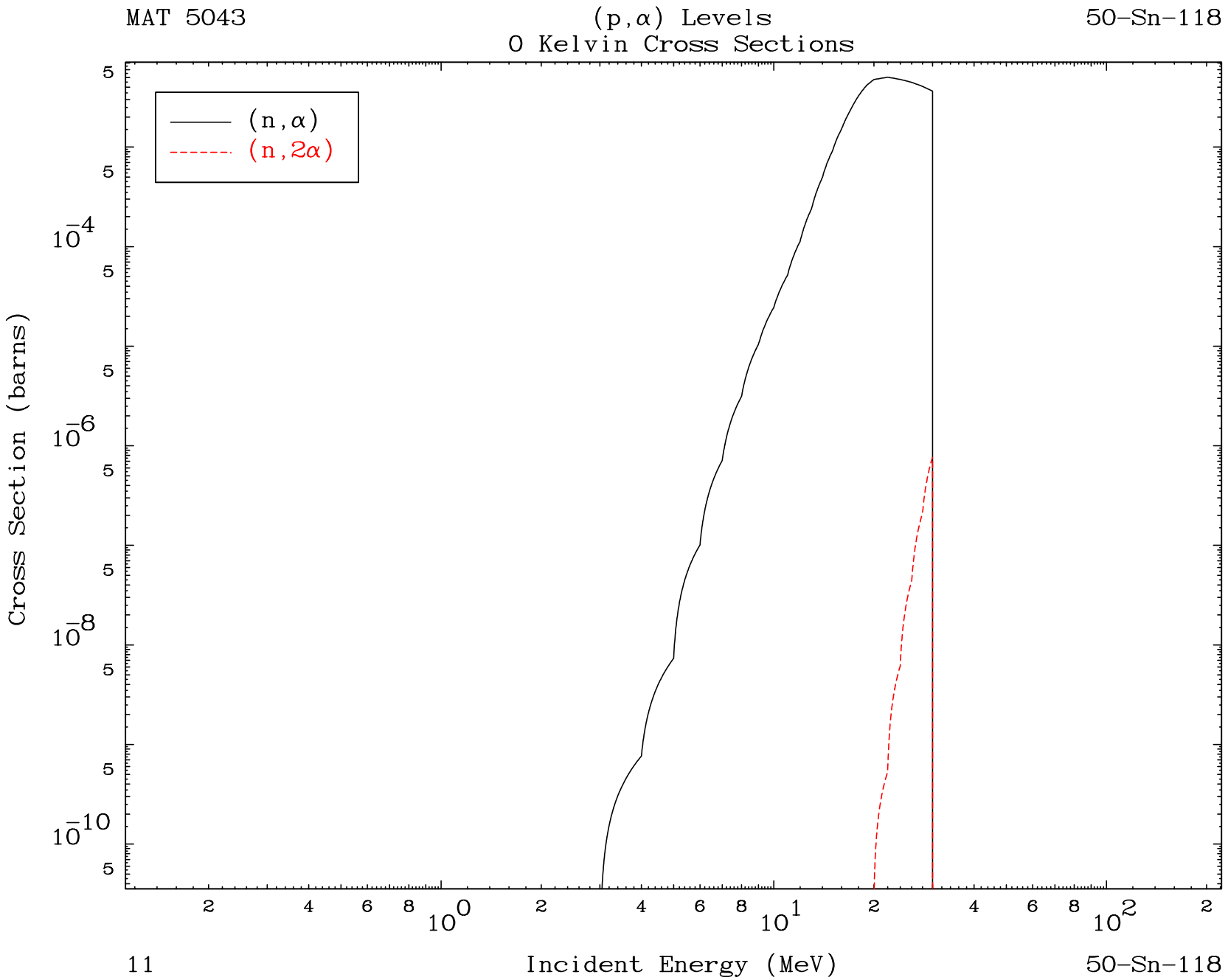

MAT 5043
Proton Charged Particle
0 Kelvin Cross Sections
50-Sn-118
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
50-Sn-118

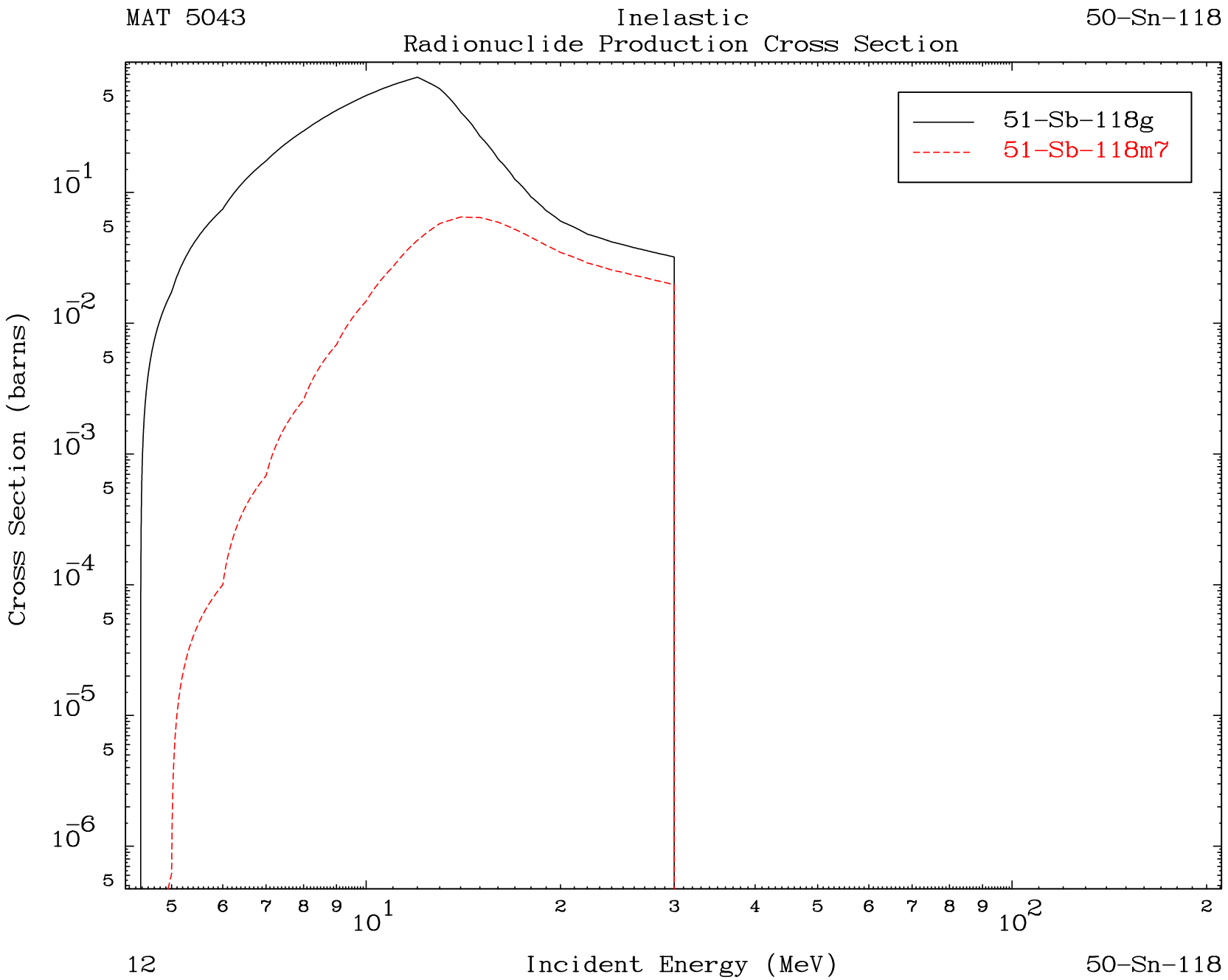

MAT 5043
(p,p) Levels
50-Sn-118
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
10 1
10 2
Incident Energy (MeV)
7
50-Sn-118

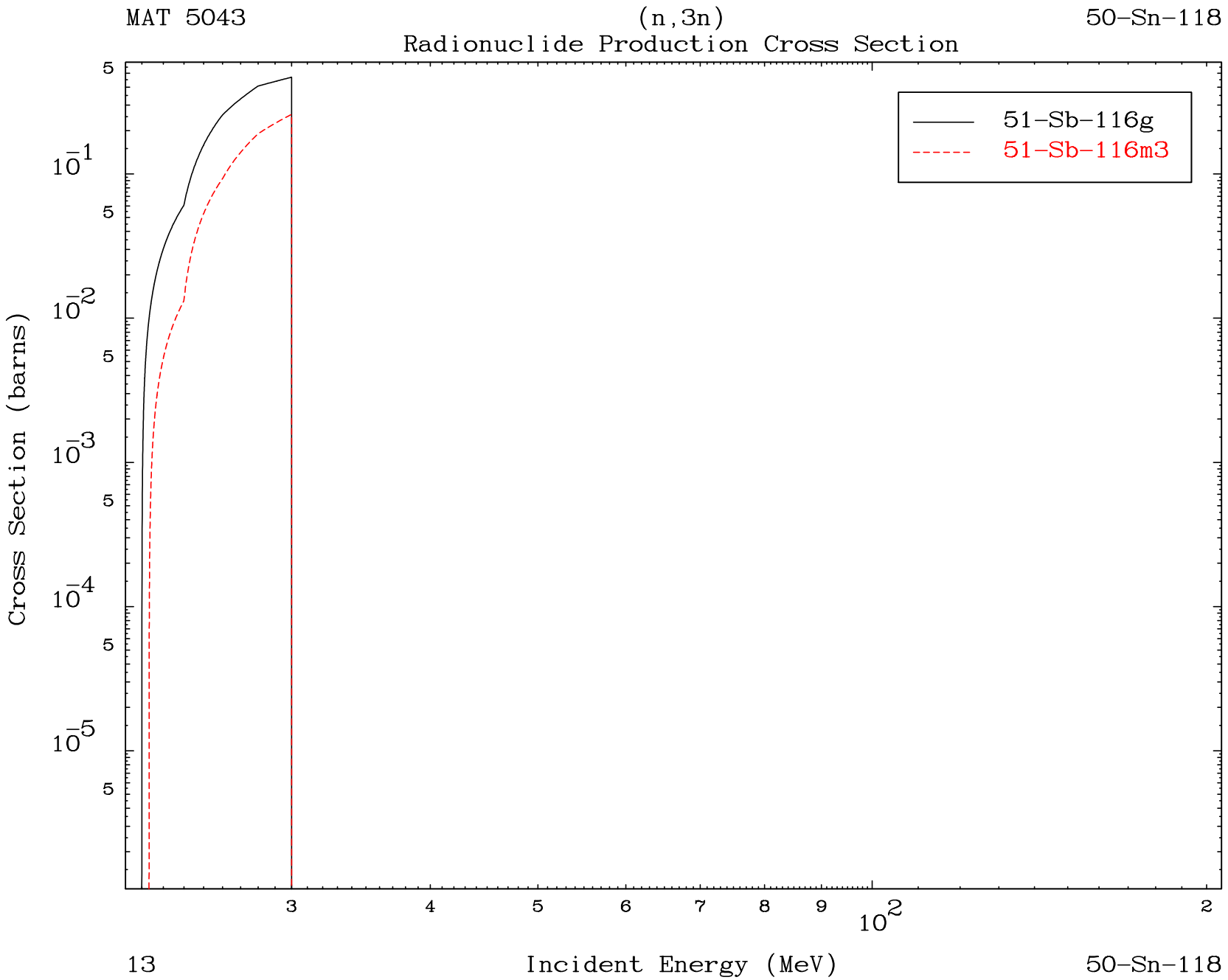

MAT 5043
(p,d) Levels
50-Sn-118
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
50-Sn-118

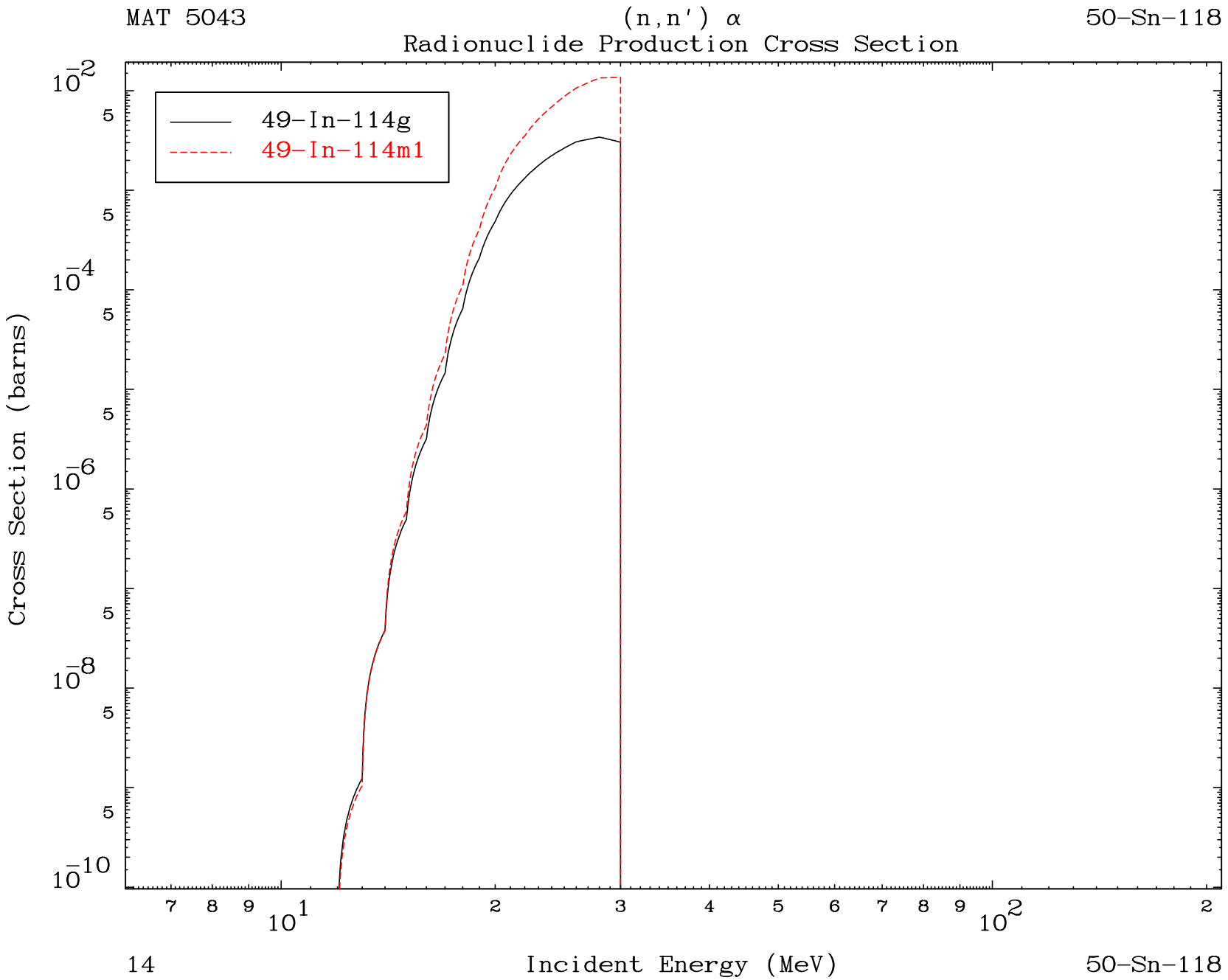

MAT 5043
(p,t) Levels
50-Sn-118
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
9
50-Sn-118

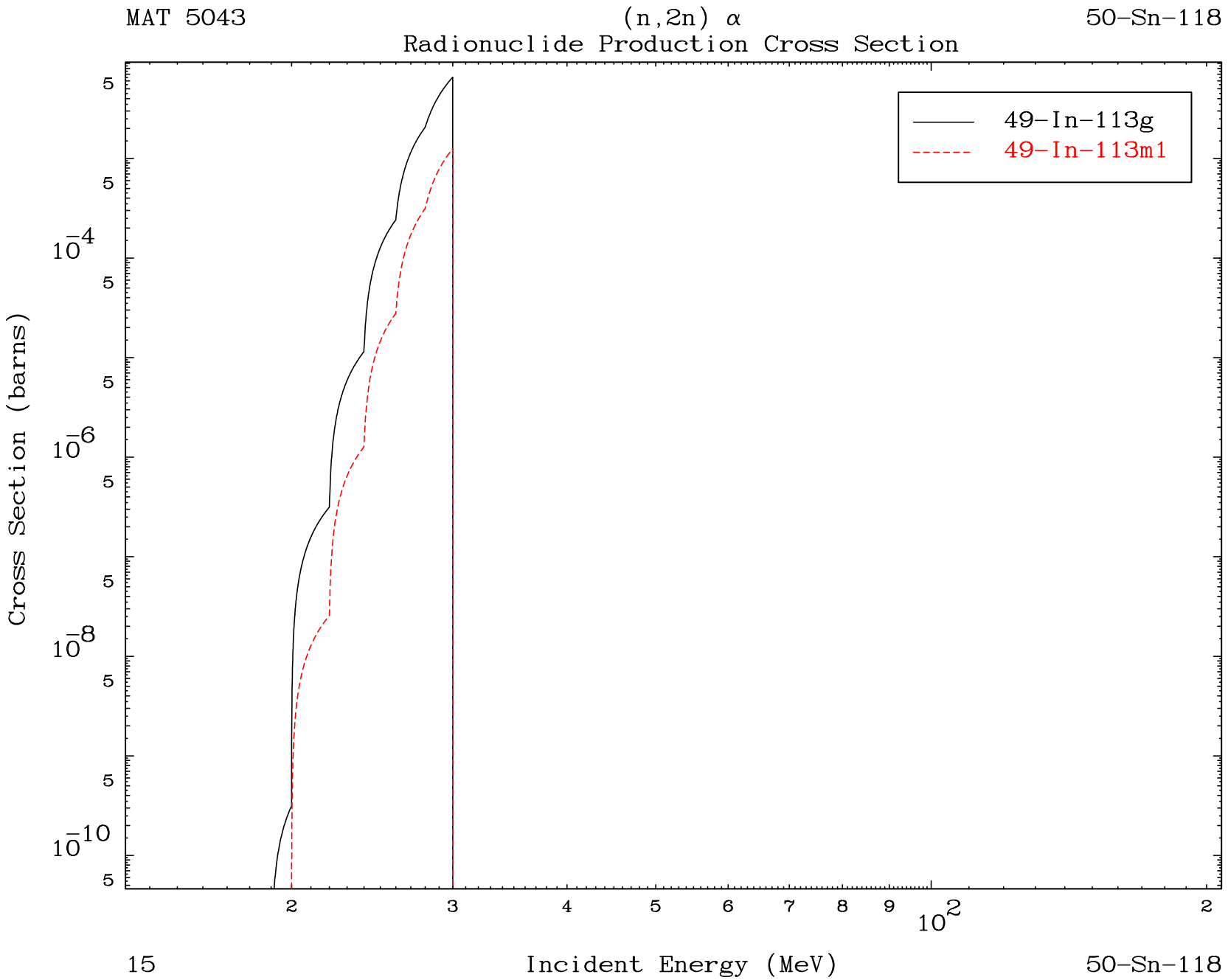

MAT 5043
(p,He3) Levels
50-Sn-118
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
50-Sn-118

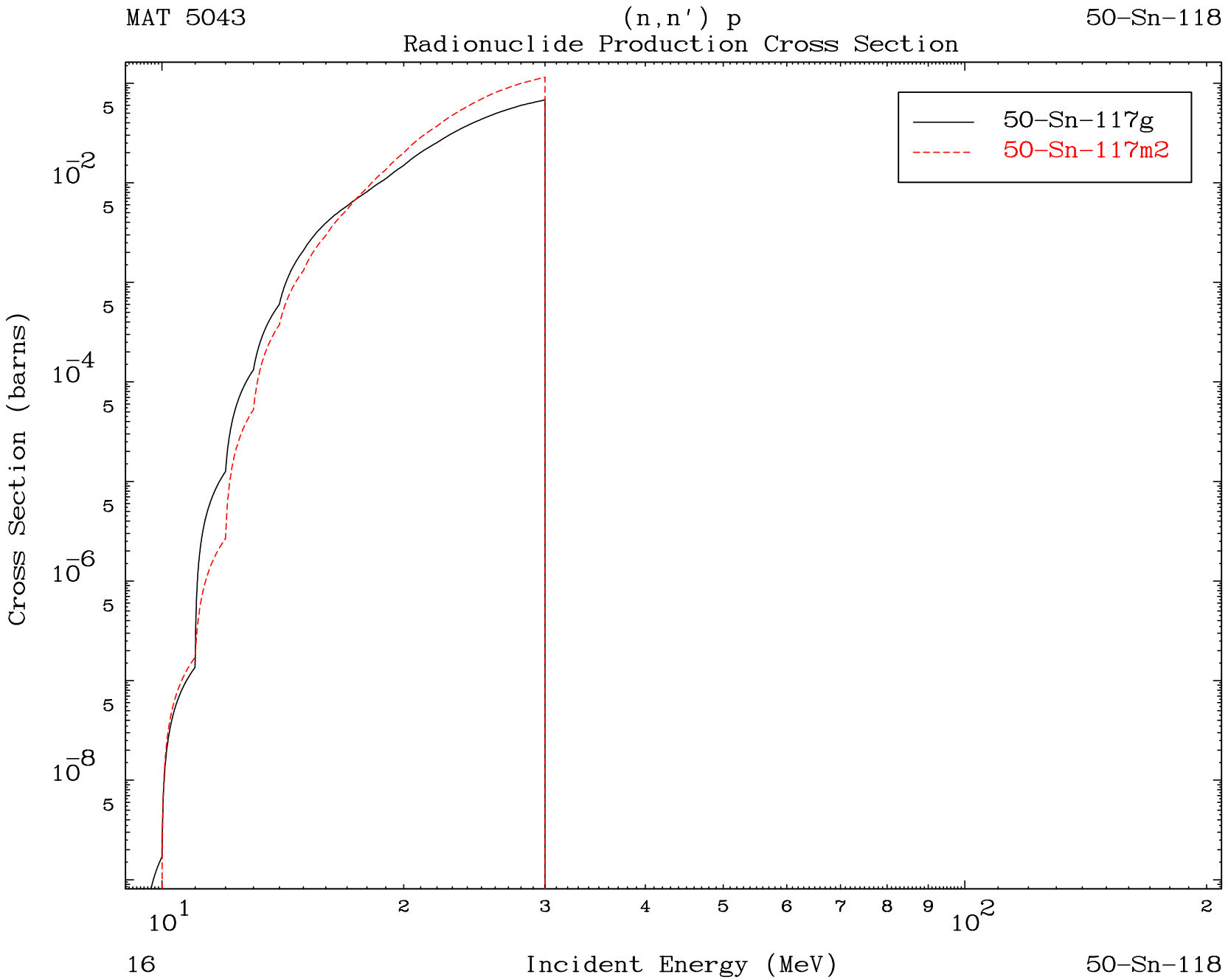

MAT 5043
(p,α) Levels
50-Sn-118
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
50-Sn-118

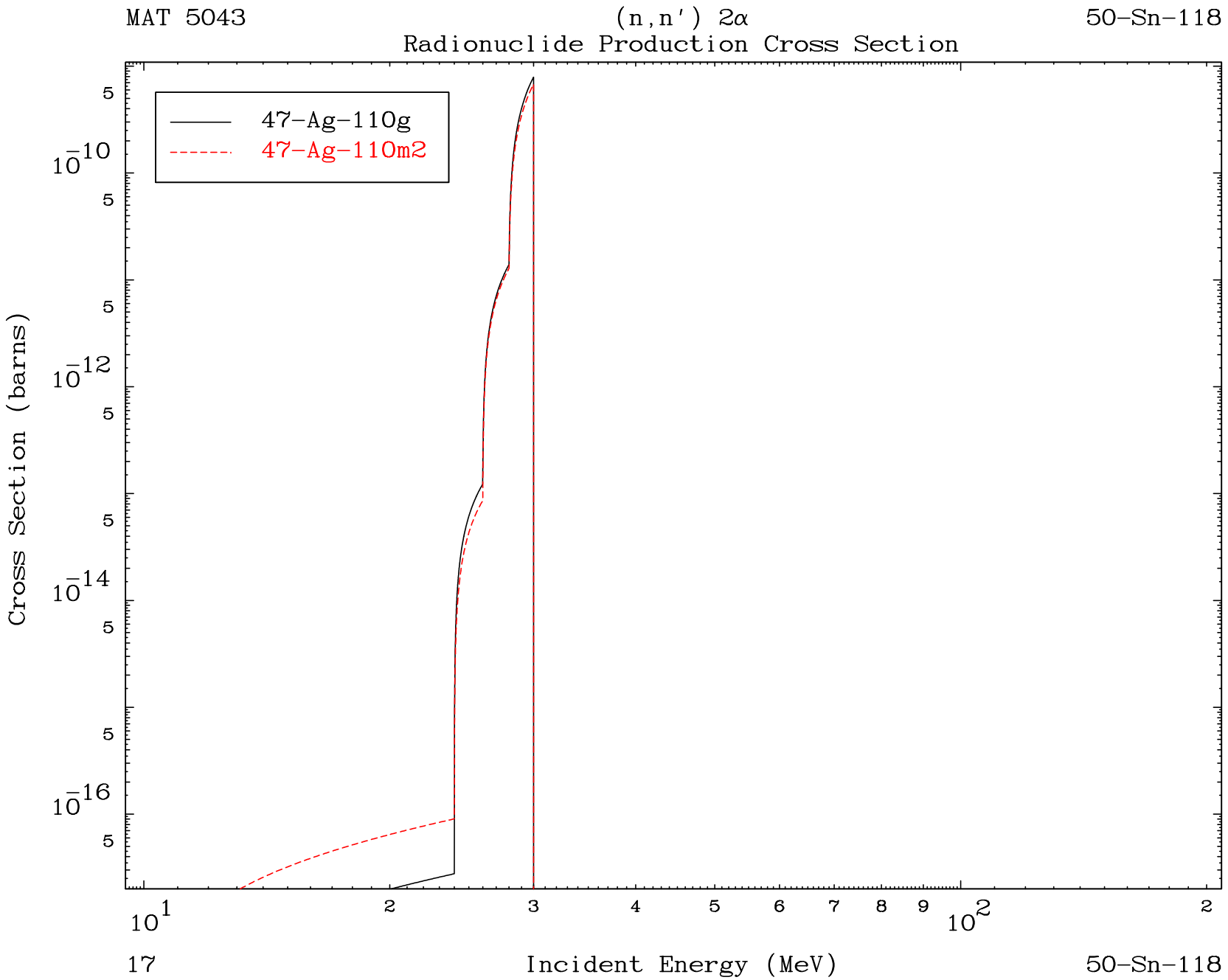

MAT 5043
Inelastic
50-Sn-118
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
Incident Energy (MeV)
12
50-Sn-118

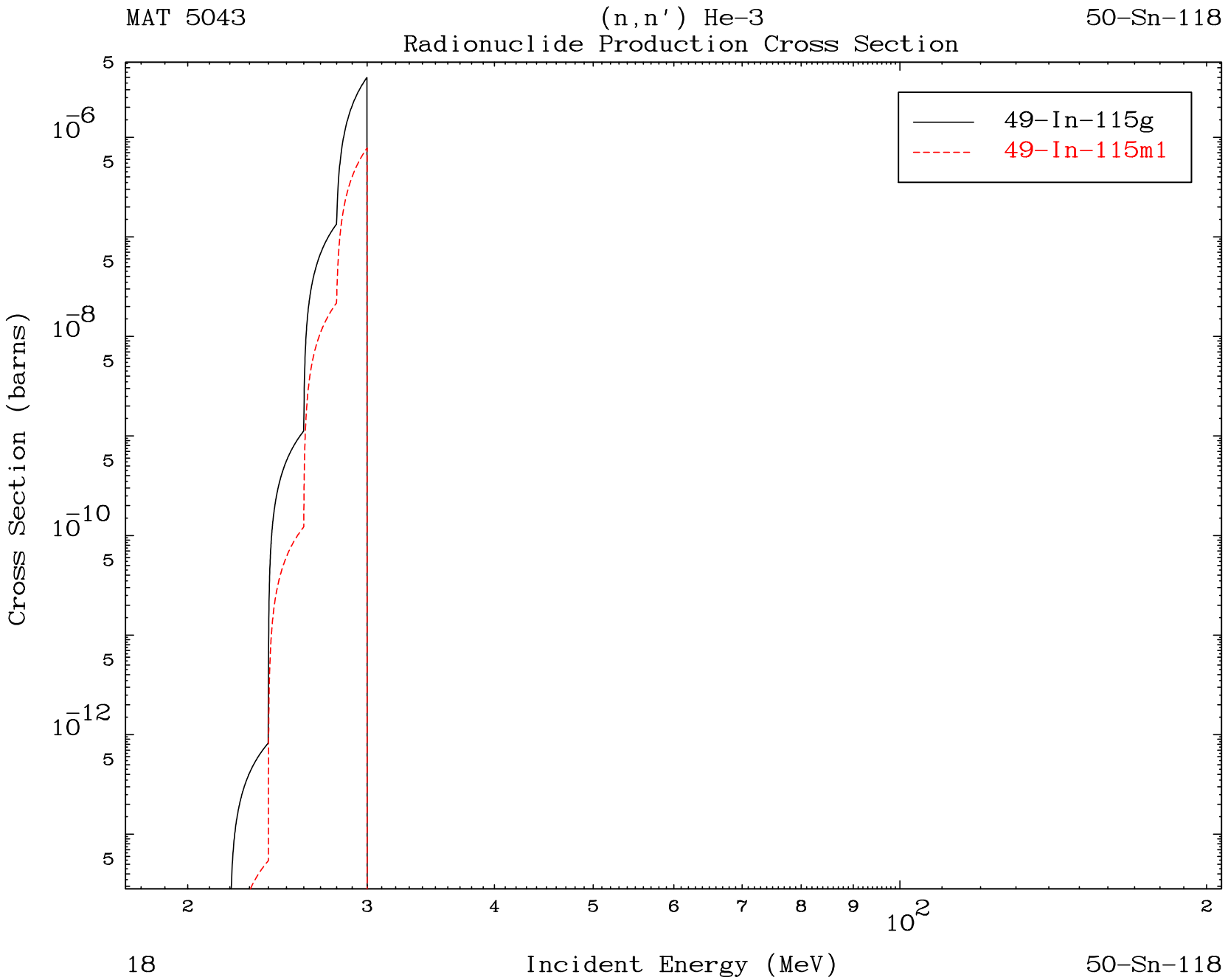

MAT 5043
(n,3n)
50-Sn-118
Radionuclide Production Cross Section
51-Sb-116g
51-Sb-116m3
Cross Section (barns)
Incident Energy (MeV)
13
50-Sn-118

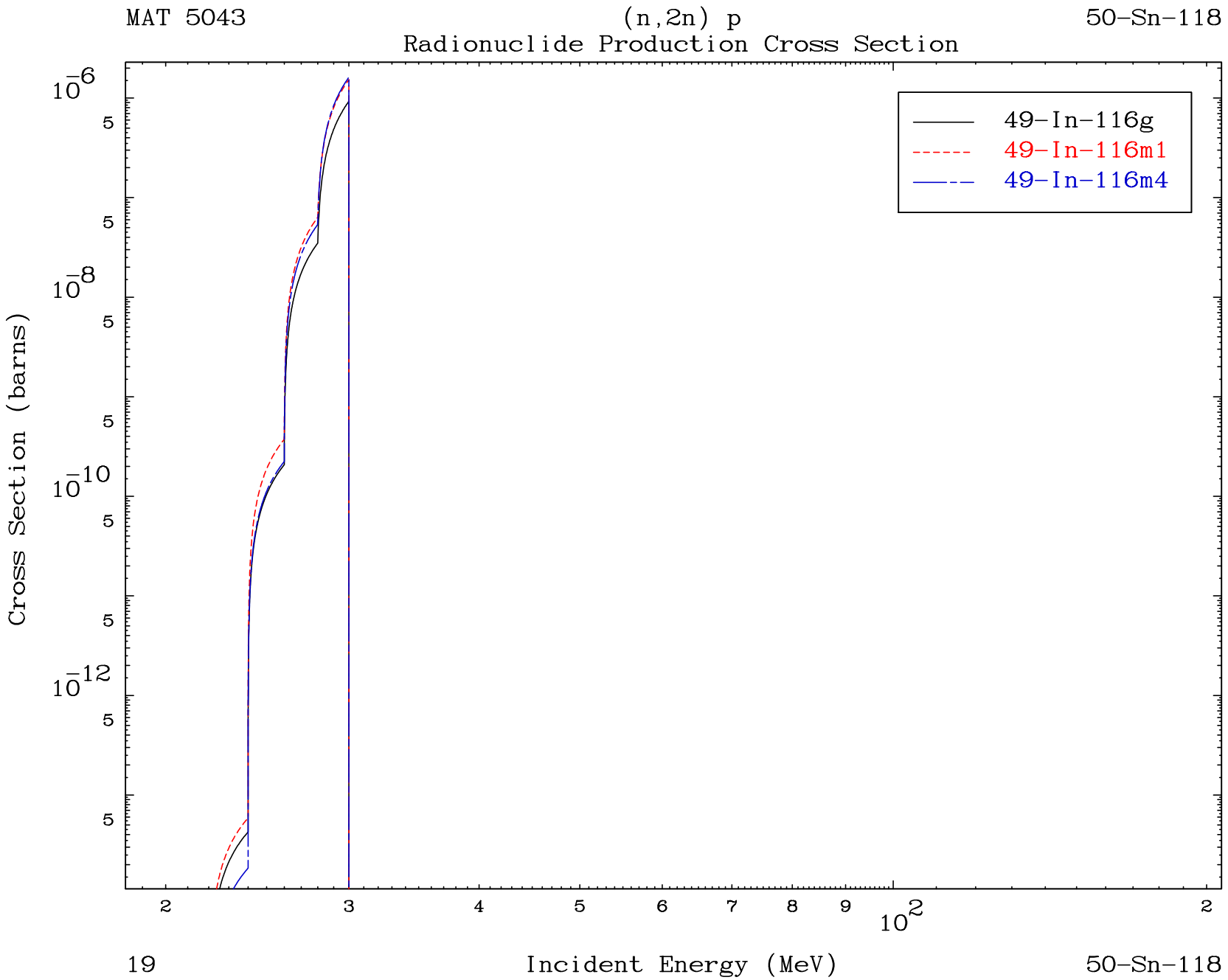

MAT 5043
(n,n') α
50-Sn-118
Radionuclide Production Cross Section
49-In-114g
49-In-114m1
Cross Section (barns)
Incident Energy (MeV)
14
50-Sn-118

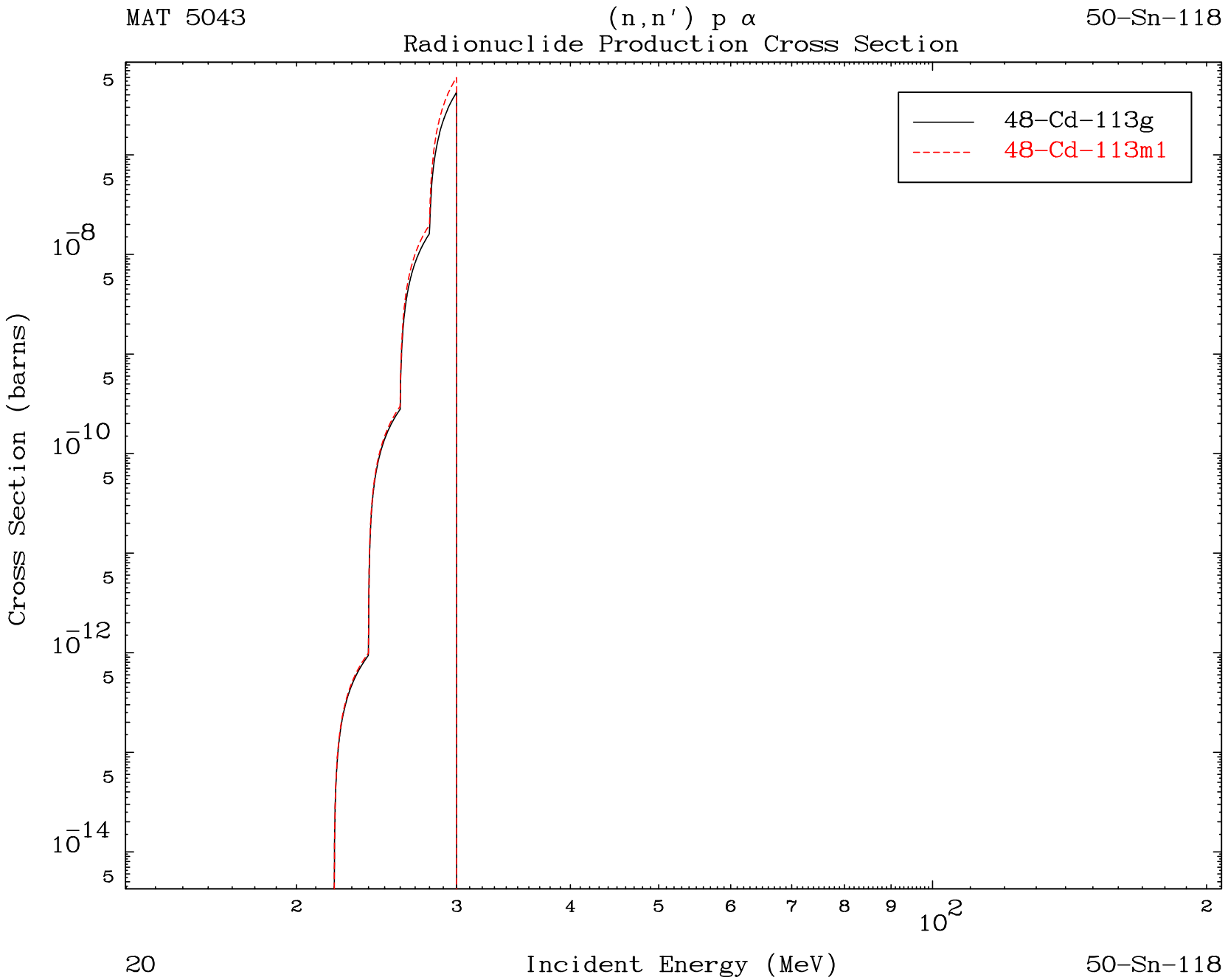

MAT 5043
(n,2n) α
50-Sn-118
Radionuclide Production Cross Section
49-In-113g
49-In-113m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
15
50-Sn-118

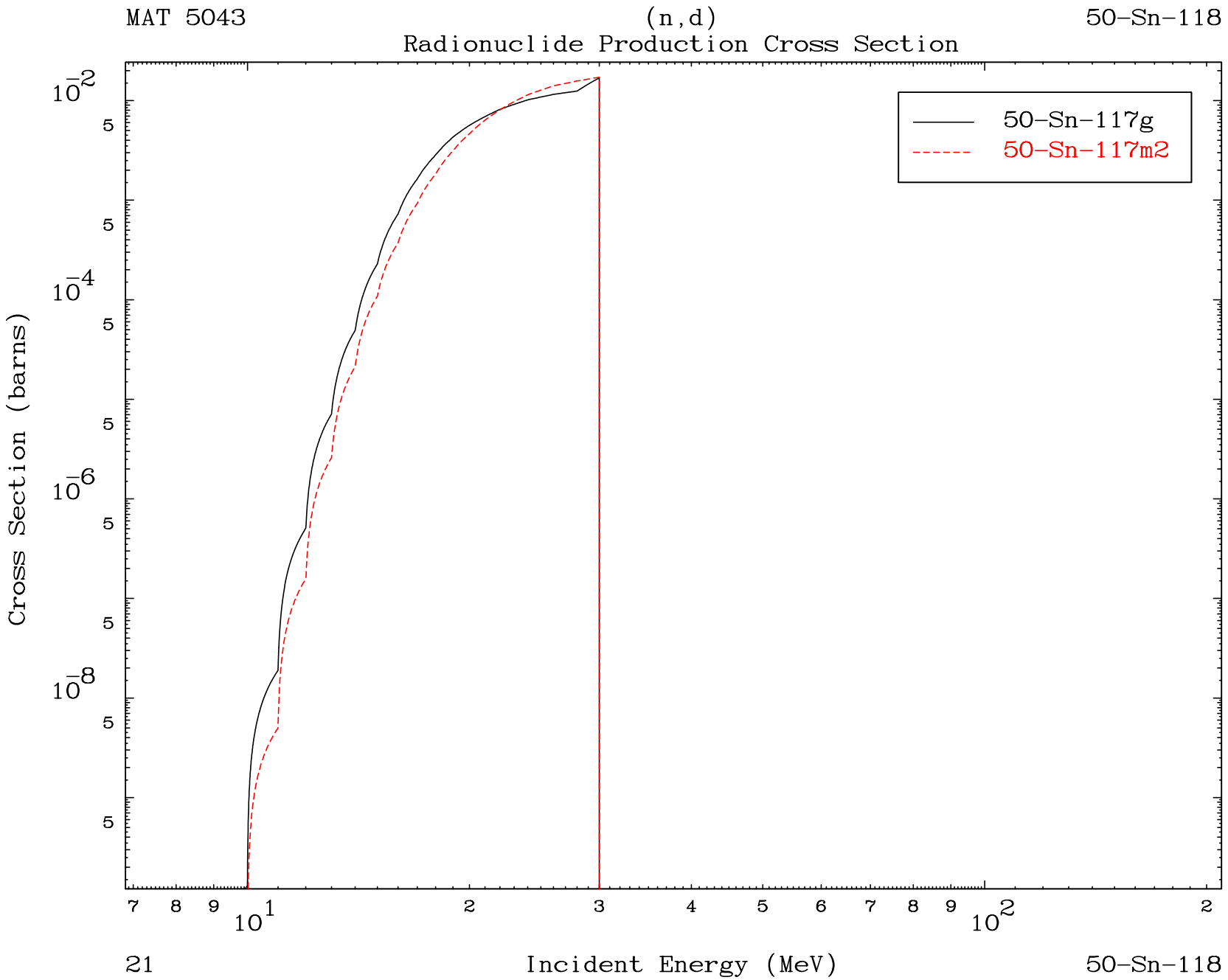

MAT 5043
(n,n') p
50-Sn-118
Radionuclide Production Cross Section
50-Sn-117g
50-Sn-117m2
Cross Section (barns)
Incident Energy (MeV)
16
50-Sn-118

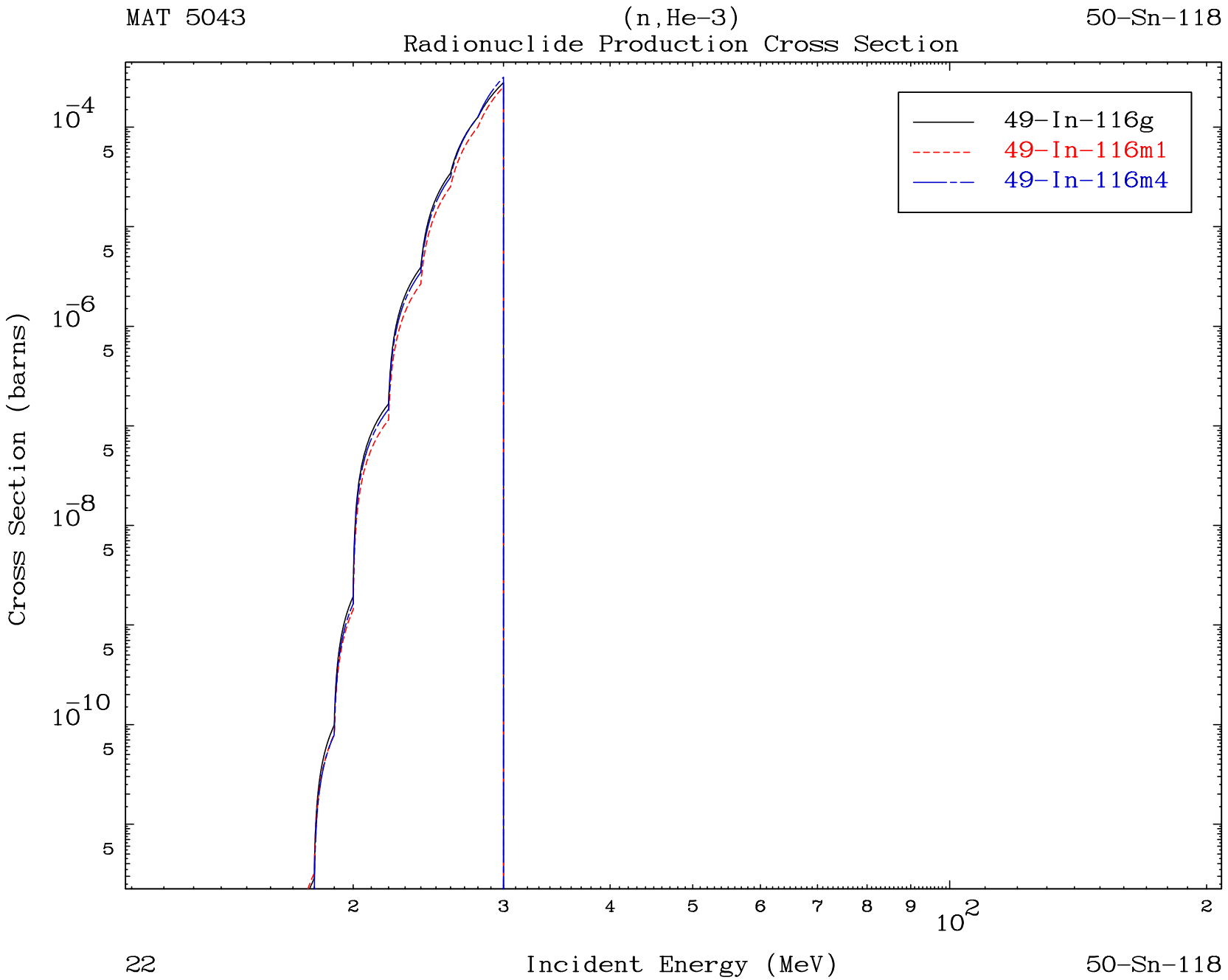

MAT 5043
(n,n') 2α
50-Sn-118
Radionuclide Production Cross Section
47-Ag-110g
47-Ag-110m2
Cross Section (barns)
10-10
10-12
10-14
10-16
5
10 1
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
50-Sn-118

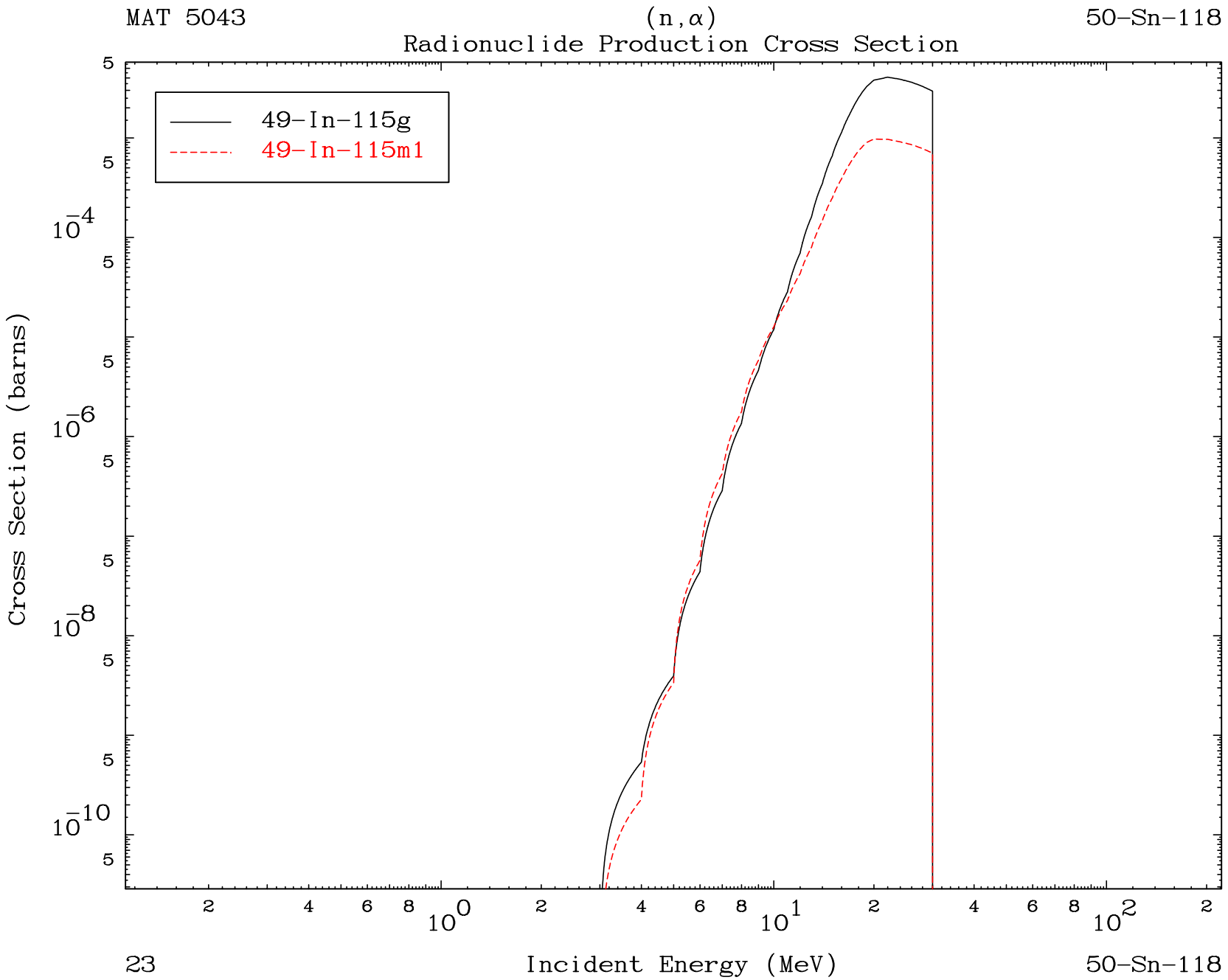

MAT 5043
(n,n') He-3
50-Sn-118
Radionuclide Production Cross Section
49-In-115g
49-In-115m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
50-Sn-118

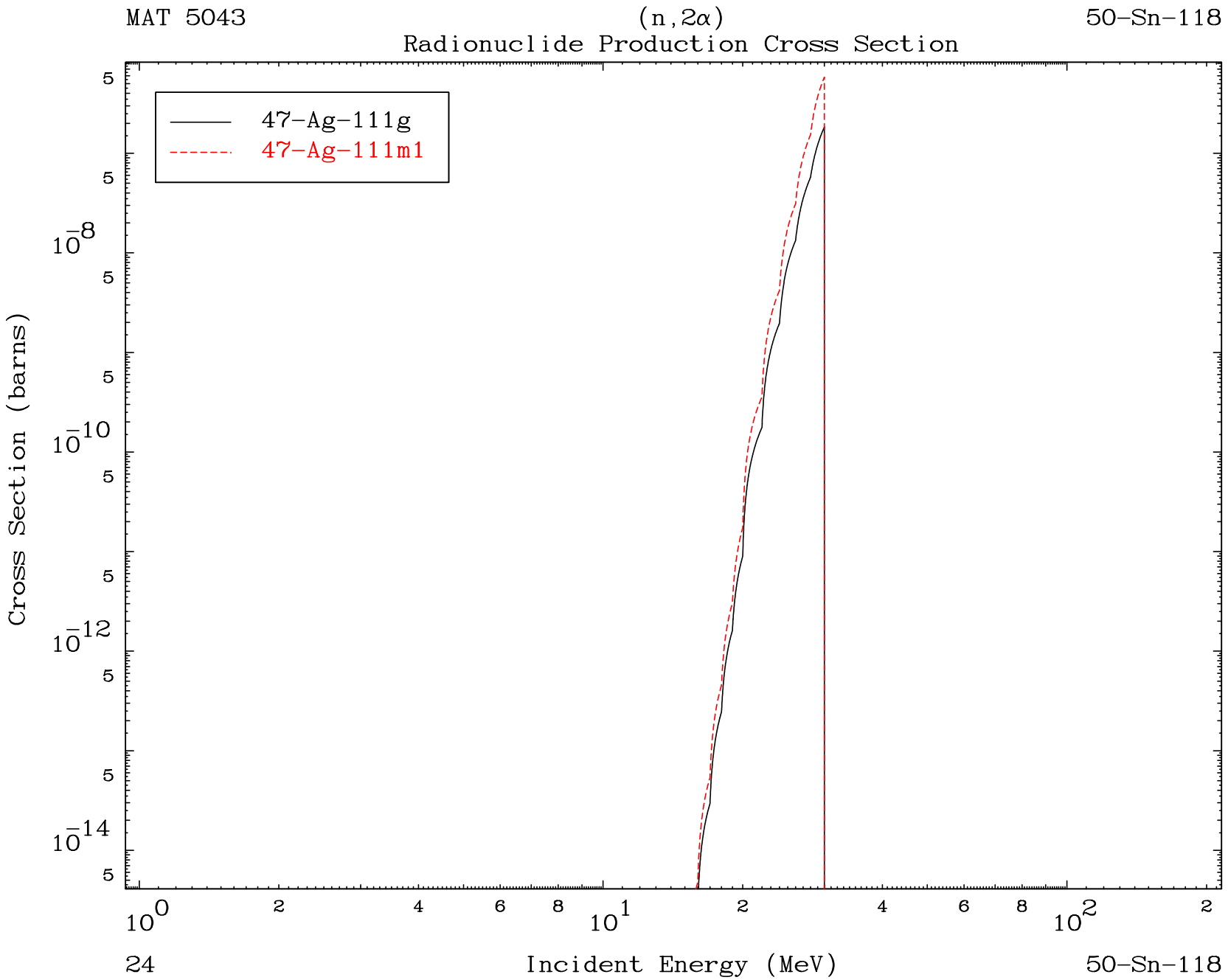

MAT 5043
(n,2n) p
50-Sn-118
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
Incident Energy (MeV)
19
50-Sn-118

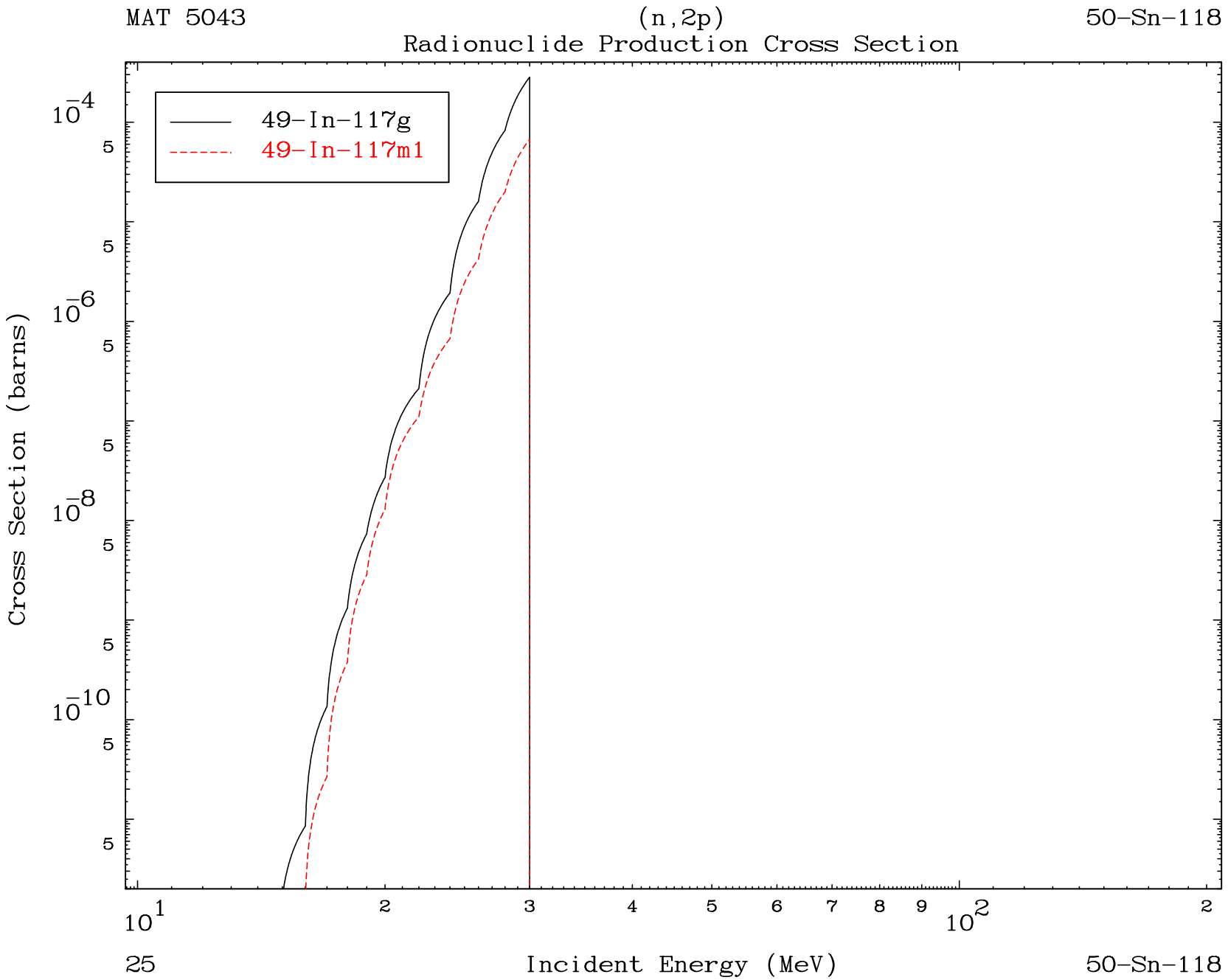

MAT 5043
(n,n') p α
50-Sn-118
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
20
50-Sn-118

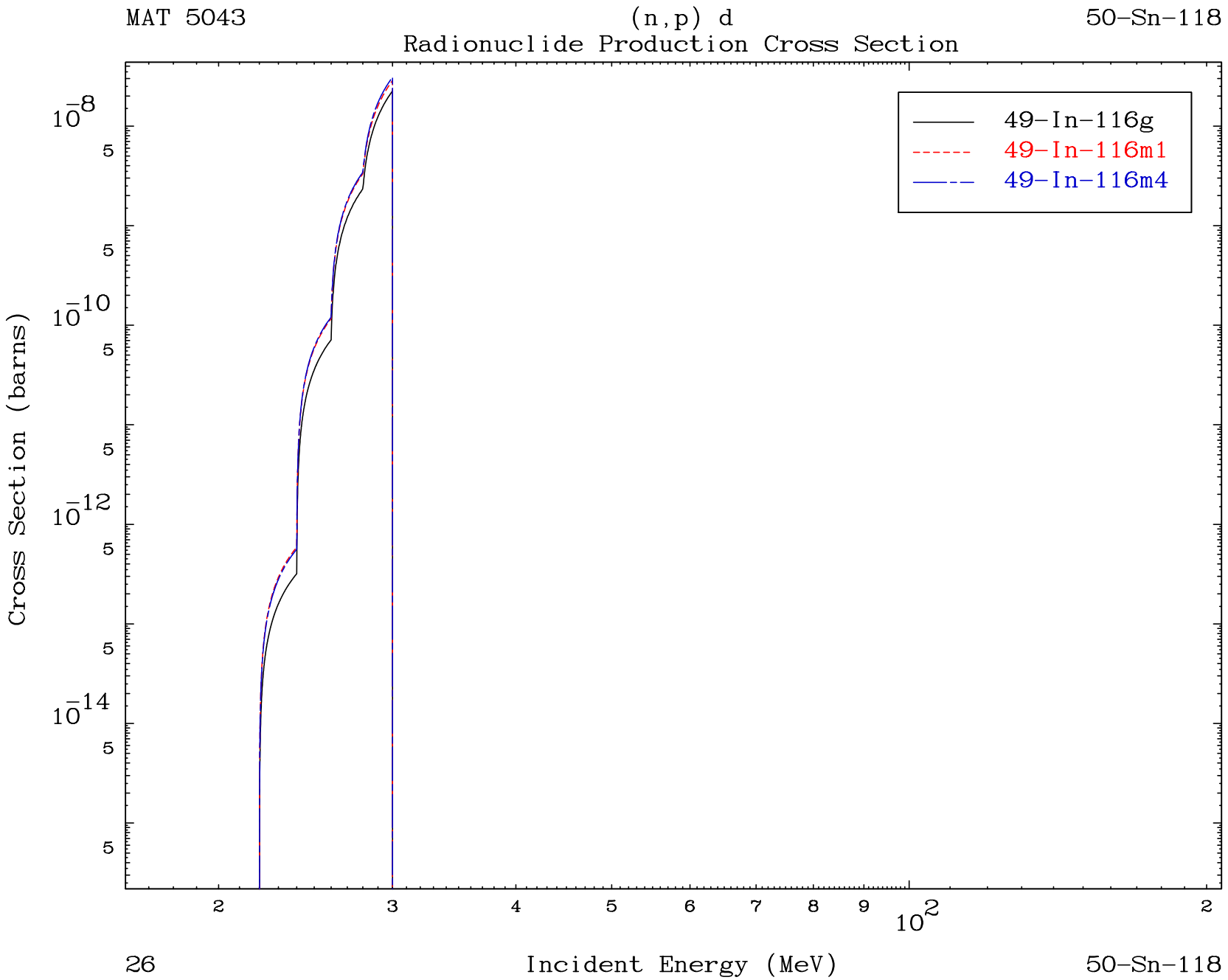

MAT 5043
(n,d)
50-Sn-118
Radionuclide Production Cross Section
50-Sn-117g
50-Sn-117m2
Cross Section (barns)
Incident Energy (MeV)
21
50-Sn-118

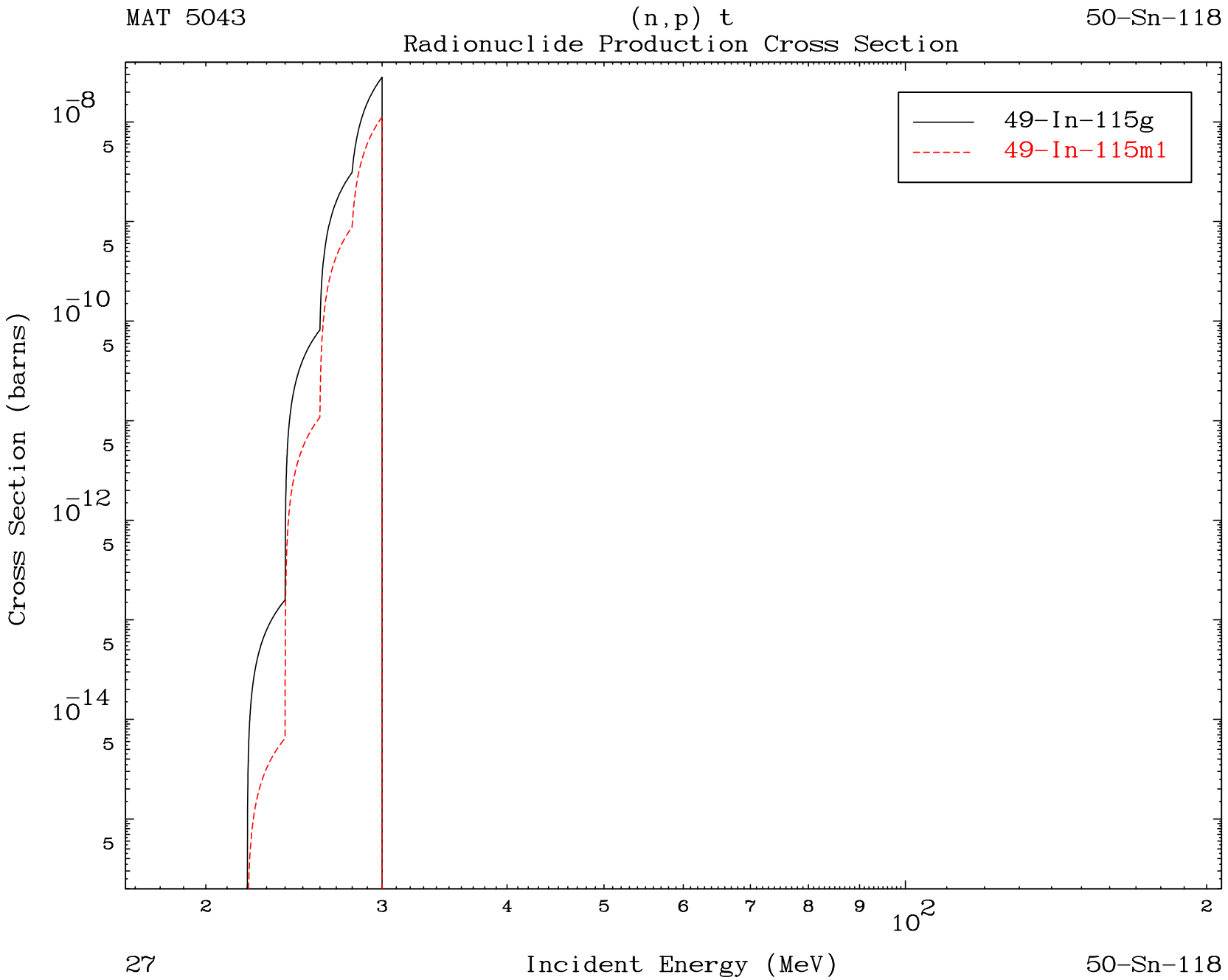

MAT 5043
(n,He-3)
50-Sn-118
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
6
7
8
9
10 2
Incident Energy (MeV)
22
50-Sn-118

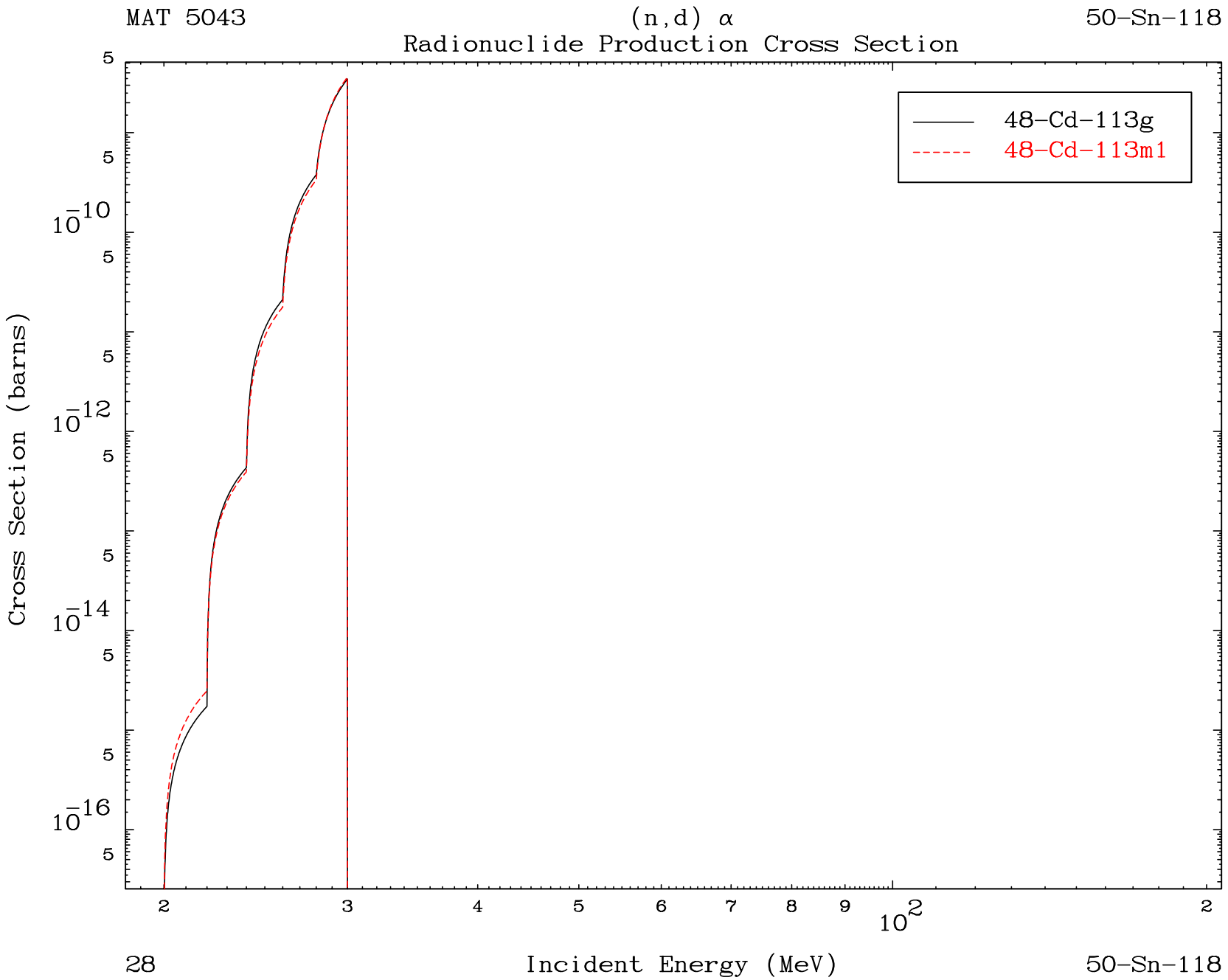

MAT 5043
(n,α)
50-Sn-118
Radionuclide Production Cross Section
49-In-115g
49-In-115m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
23
Incident Energy (MeV)
50-Sn-118


MAT 5043
(n,2α)
50-Sn-118
Radionuclide Production Cross Section
47-Ag-111g
47-Ag-111m1
Cross Section (barns)
Incident Energy (MeV)
24
50-Sn-118


MAT 5043
(n,2p)
50-Sn-118
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
25
50-Sn-118


MAT 5043
(n,p) d
50-Sn-118
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
Incident Energy (MeV)
26
50-Sn-118


MAT 5043
(n,p) t
50-Sn-118
Radionuclide Production Cross Section
49-In-115g
49-In-115m1
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)
50-Sn-118


MAT 5043
(n,d) α
50-Sn-118
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
28
50-Sn-118