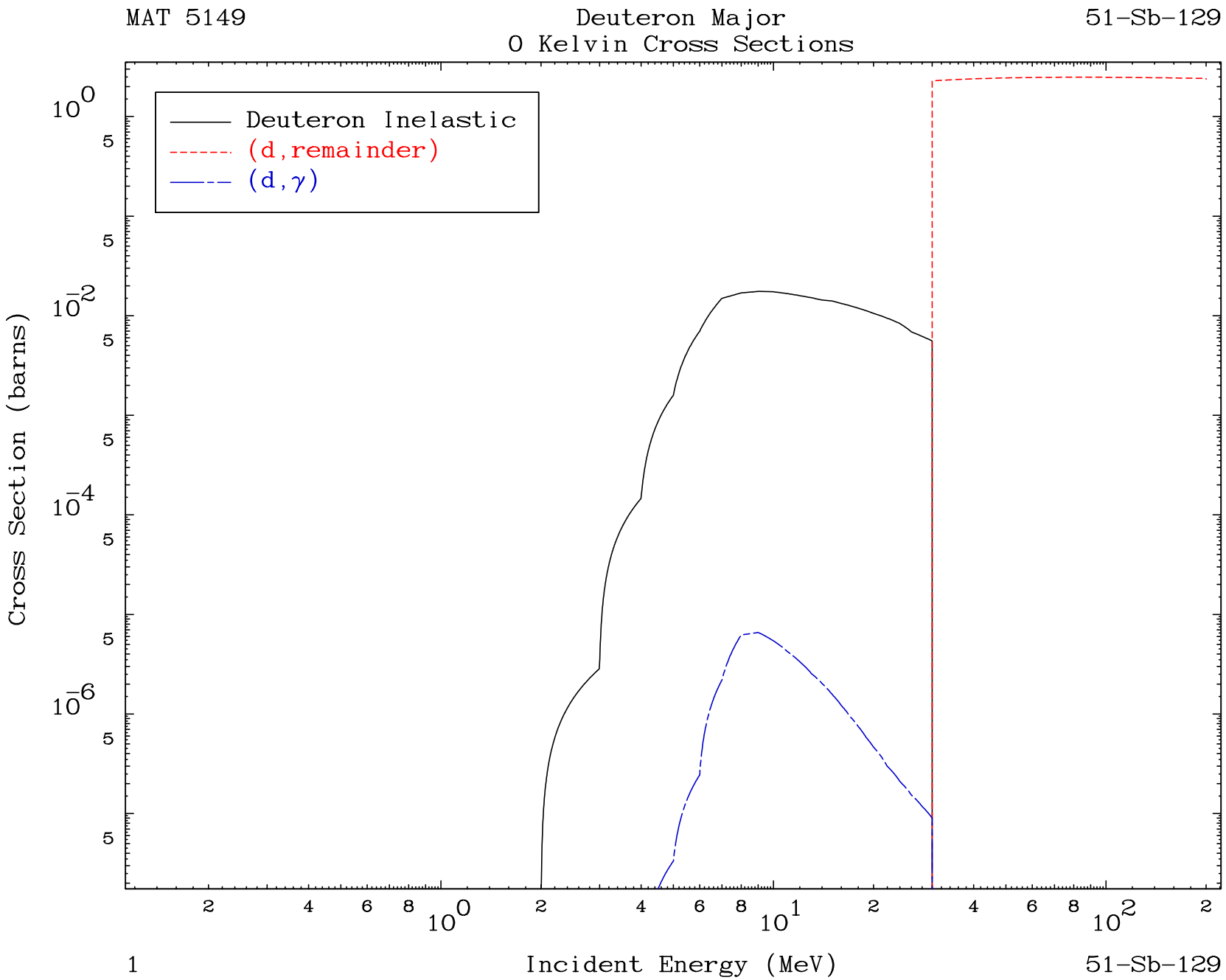
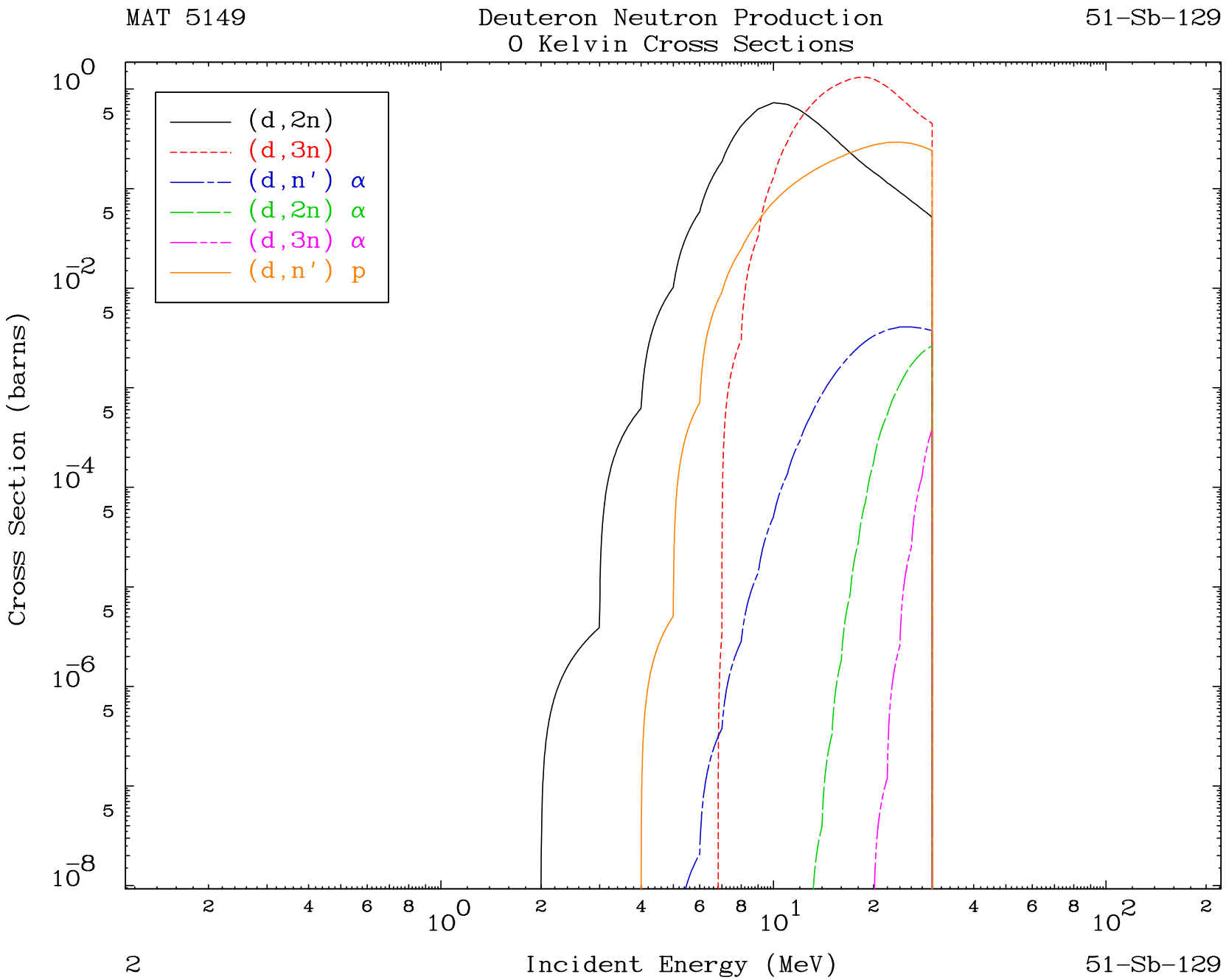
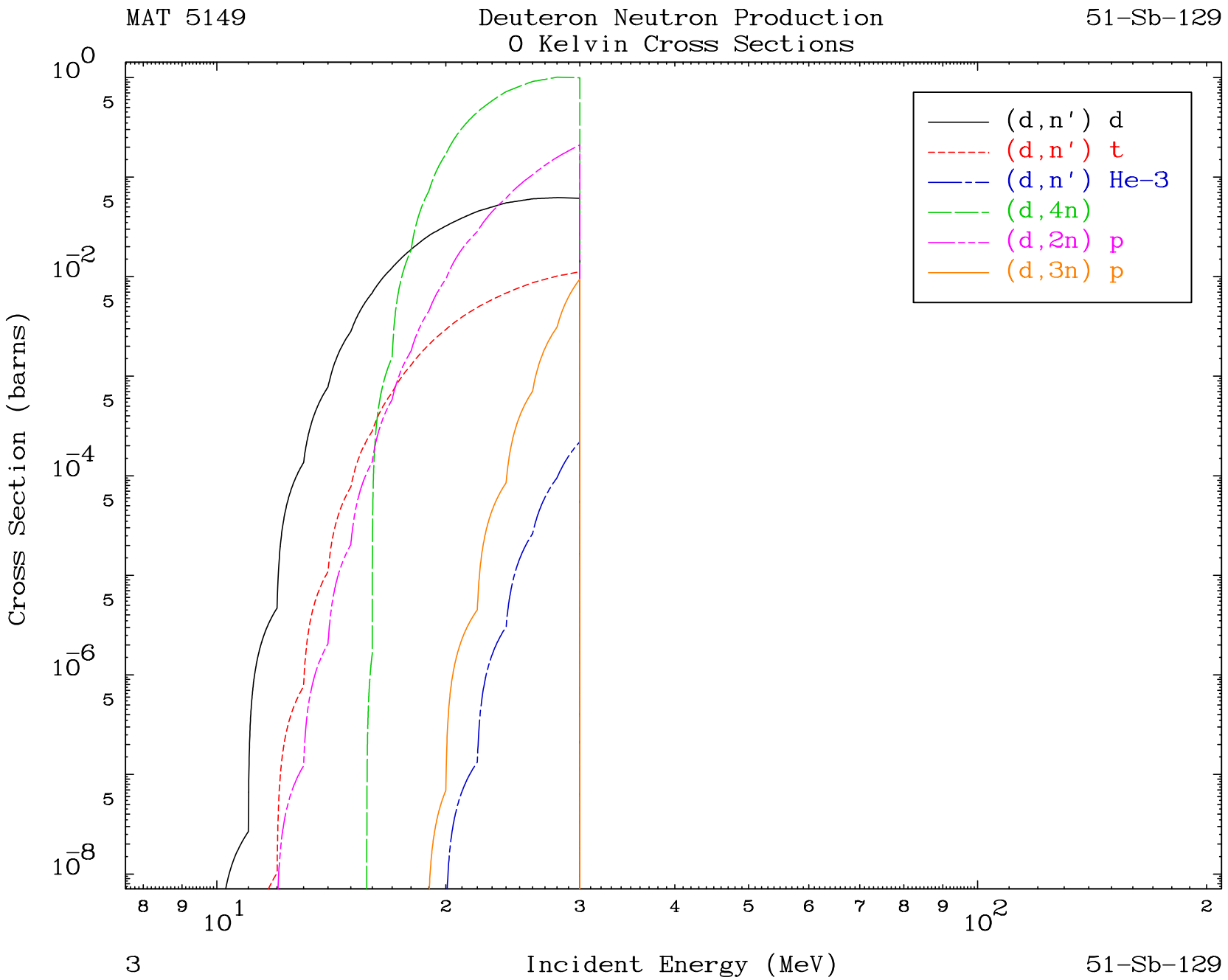
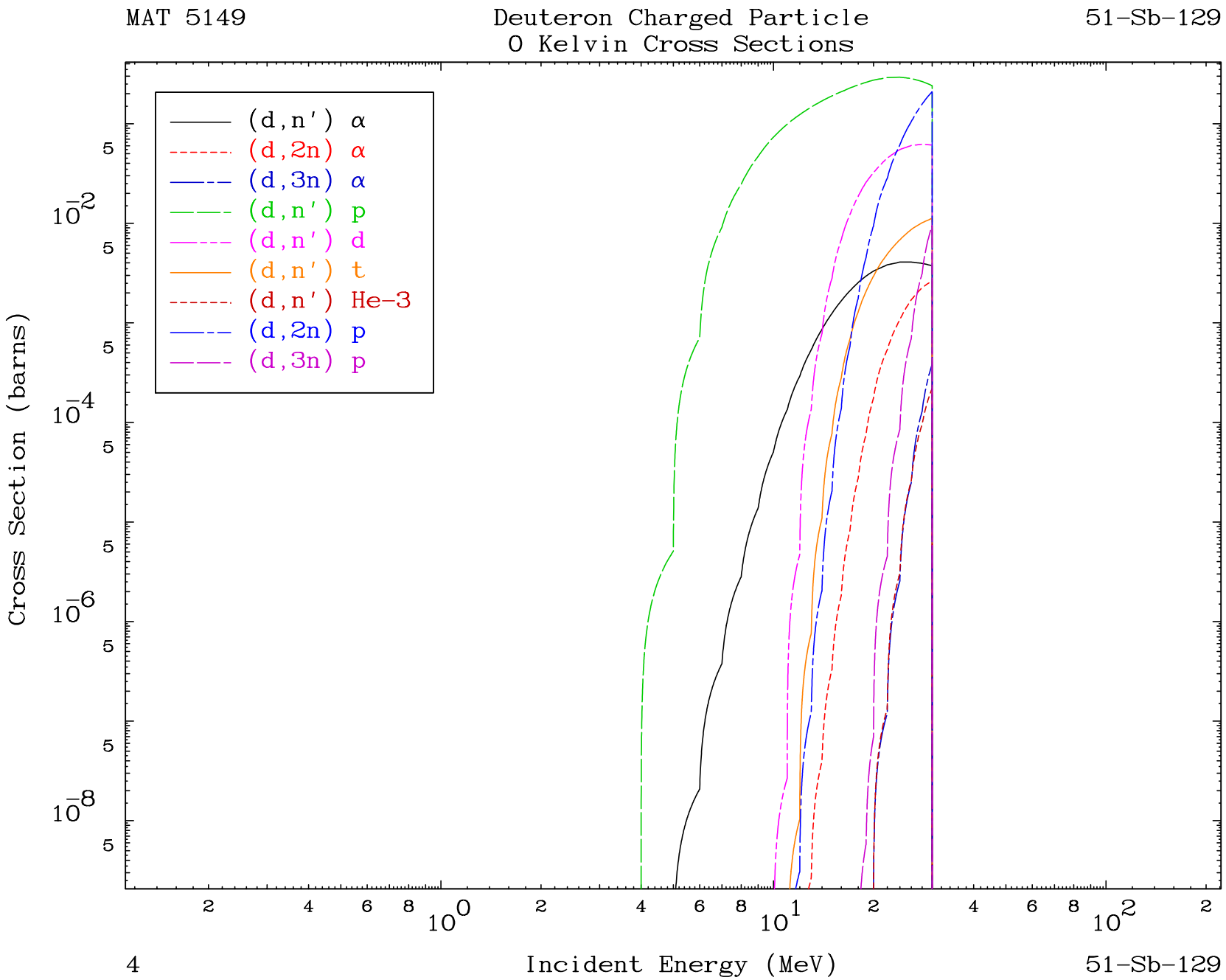
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

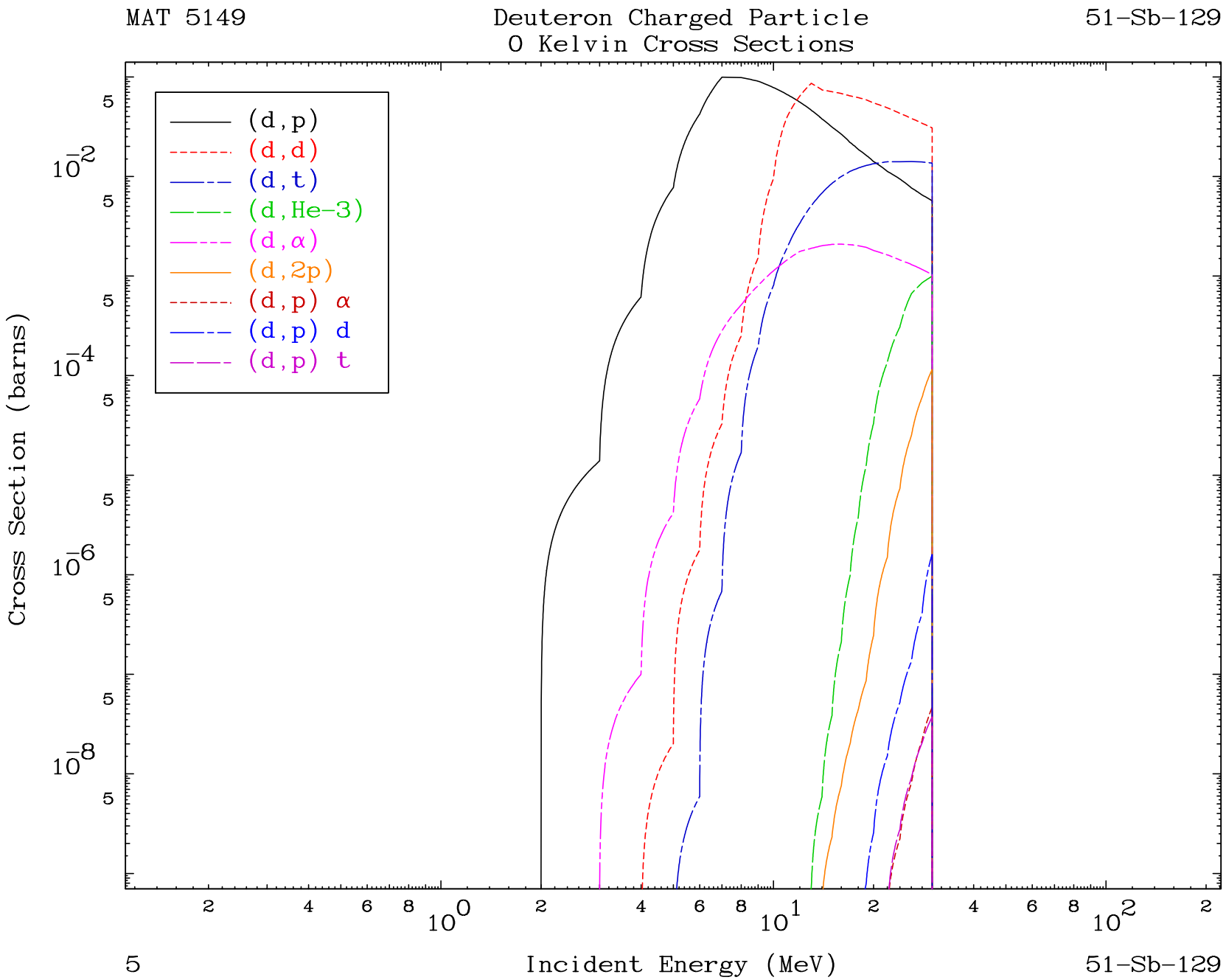
Press Mouse Button to Start

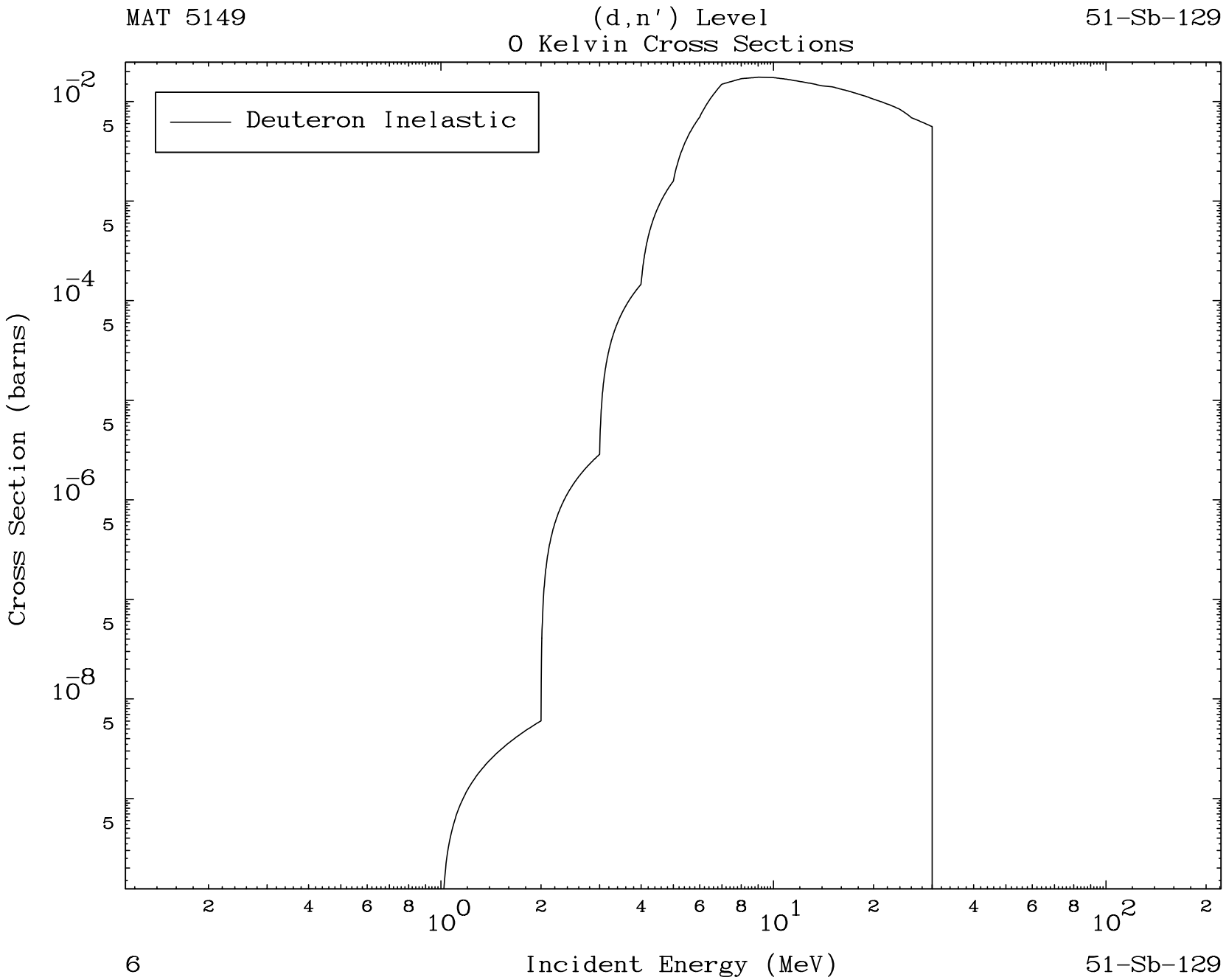

MAT 5149
Deuteron Major
51-Sb-129
0 Kelvin Cross Sections
Deuteron Inelastic
(d,remainder)
(d,γ)
Cross Section (barns)
Incident Energy (MeV)
51-Sb-129
1

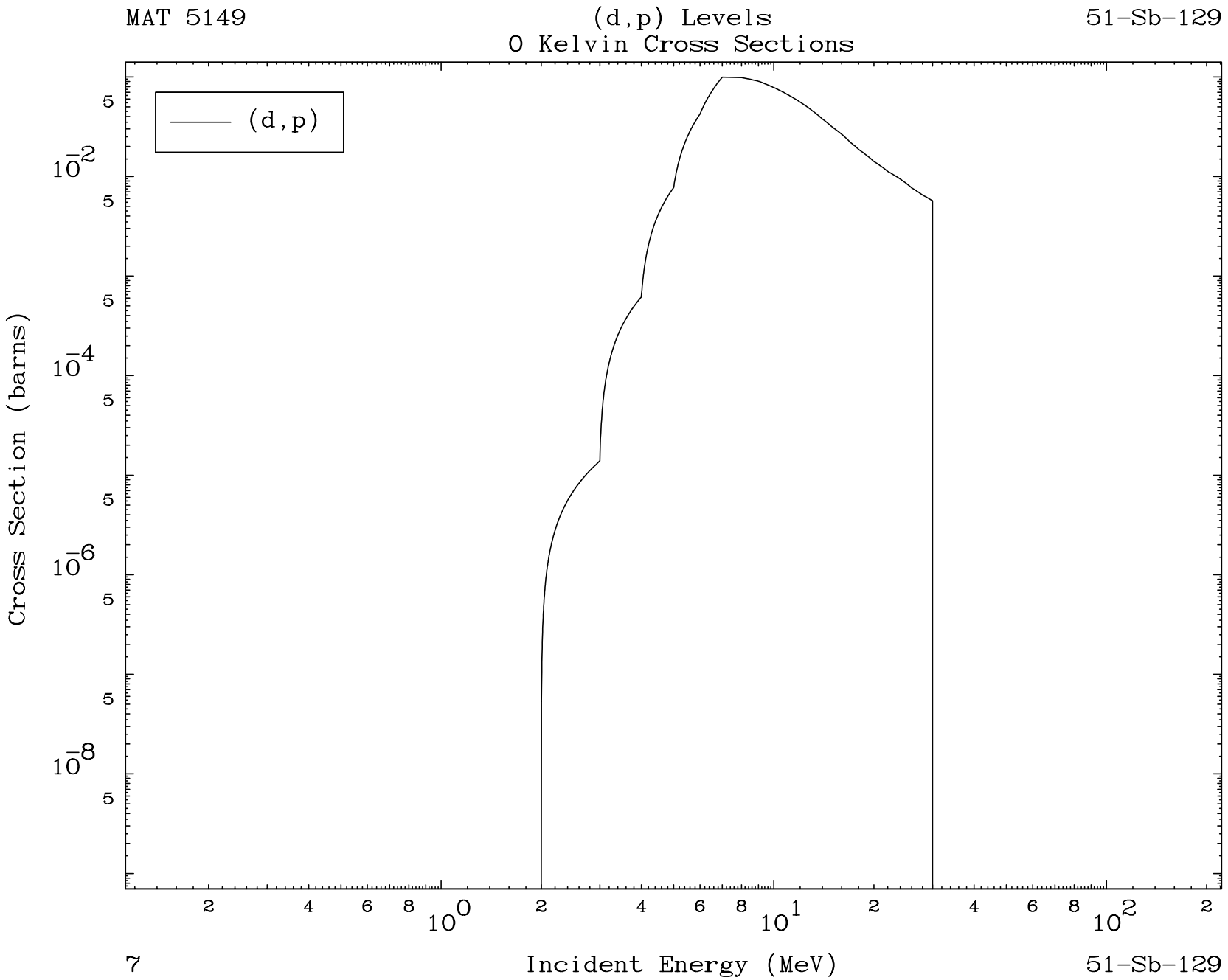

MAT 5149
Deuteron Neutron Production
0 Kelvin Cross Sections
51-Sb-129
(d,2n)
(d,3n)
(d,n') α
(d,2n) α
(d,3n) α
(d,n') p
Cross Section (barns)
Incident Energy (MeV)
51-Sb-129
2

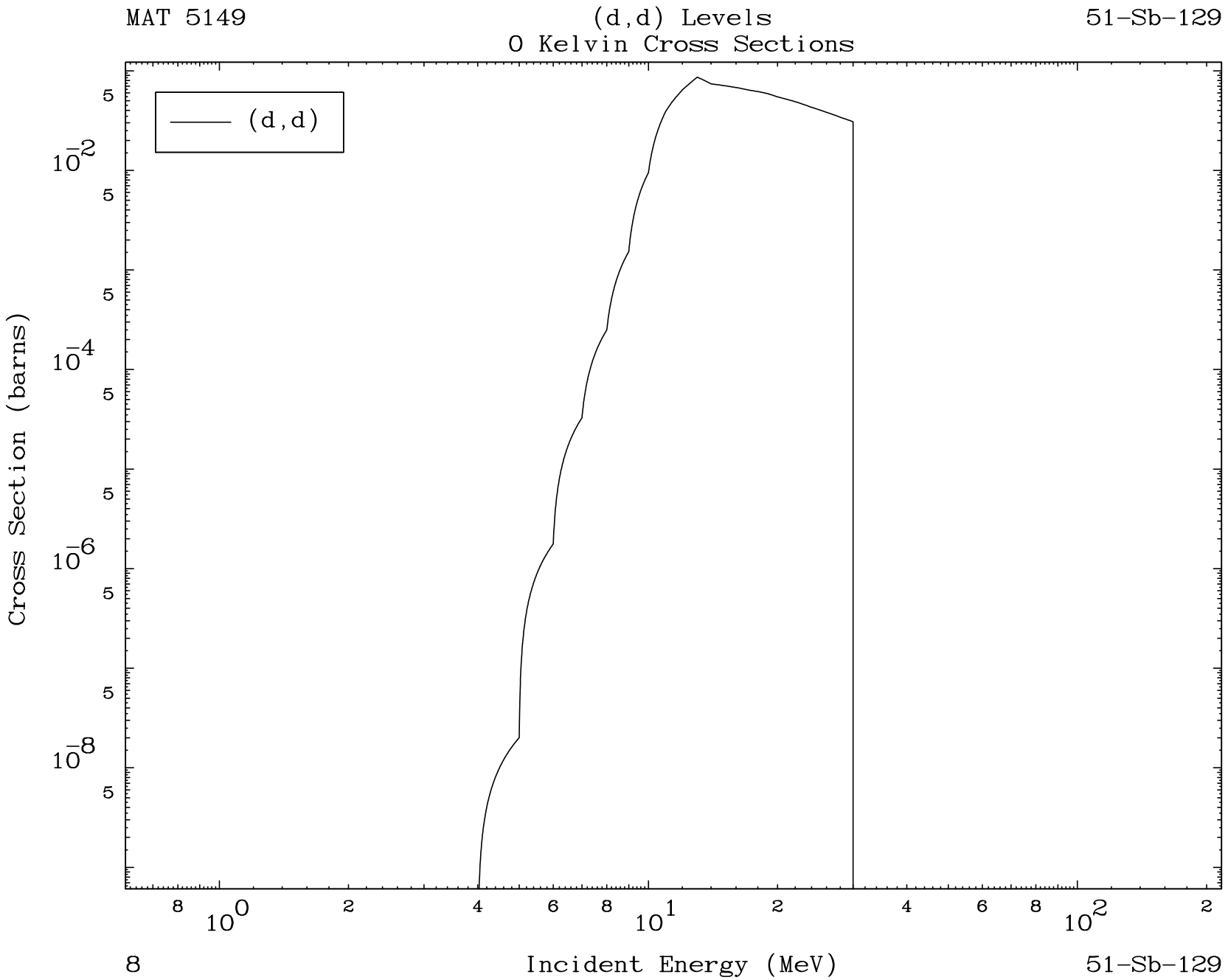

MAT 5149
Deuteron Neutron Production
0 Kelvin Cross Sections
51-Sb-129
Cross Section (barns)
Incident Energy (MeV)
(d,n') d
(d,n') t
(d,n') He-3
(d,4n)
(d,2n) p
(d,3n) p
3
51-Sb-129

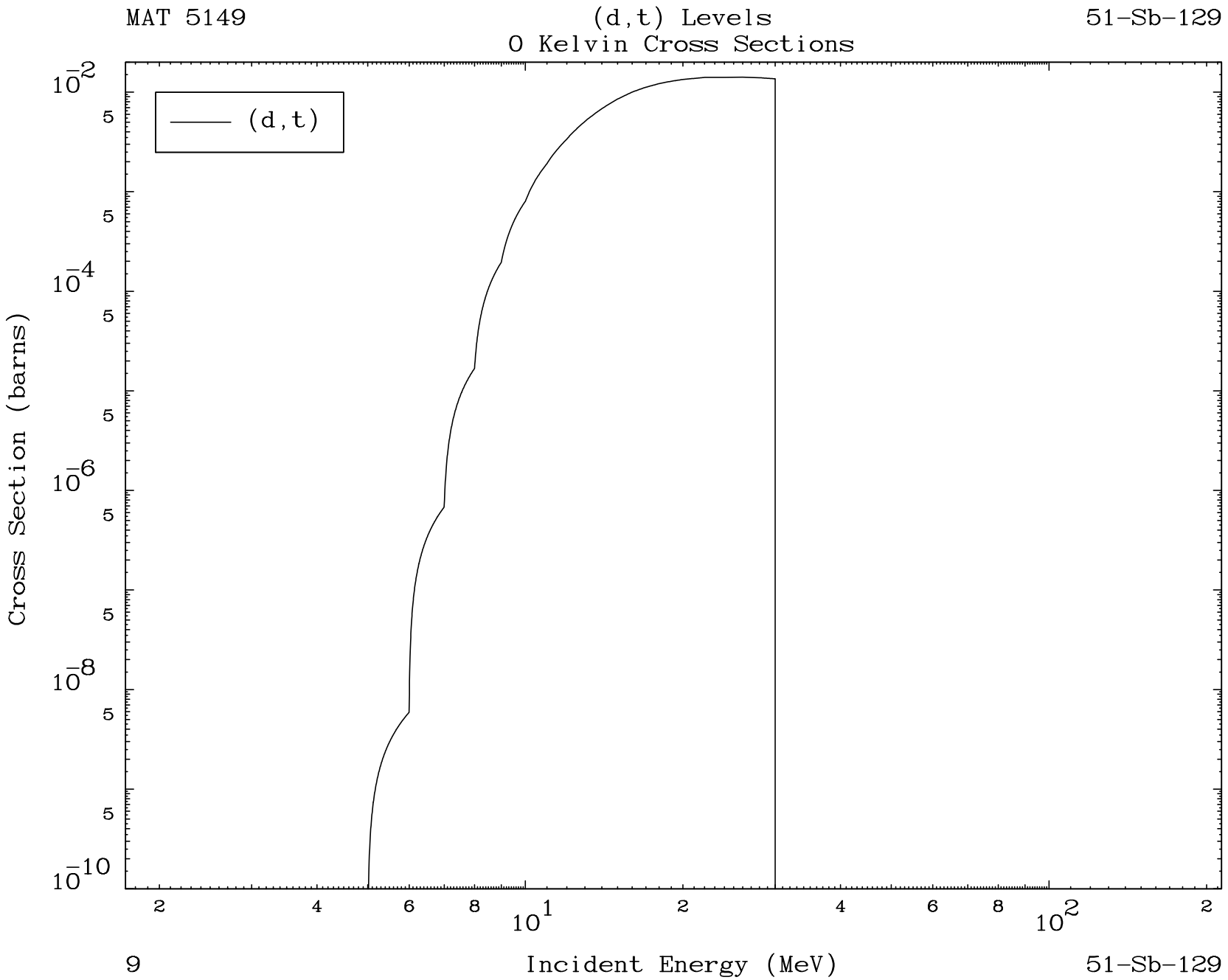

MAT 5149
Deuteron Charged Particle
0 Kelvin Cross Sections
51-Sb-129
(d,n') α
(d,2n) α
(d,3n) α
(d,n') p
(d,n') d
(d,n') t
(d,n') He-3
(d,2n) p
(d,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
51-Sb-129

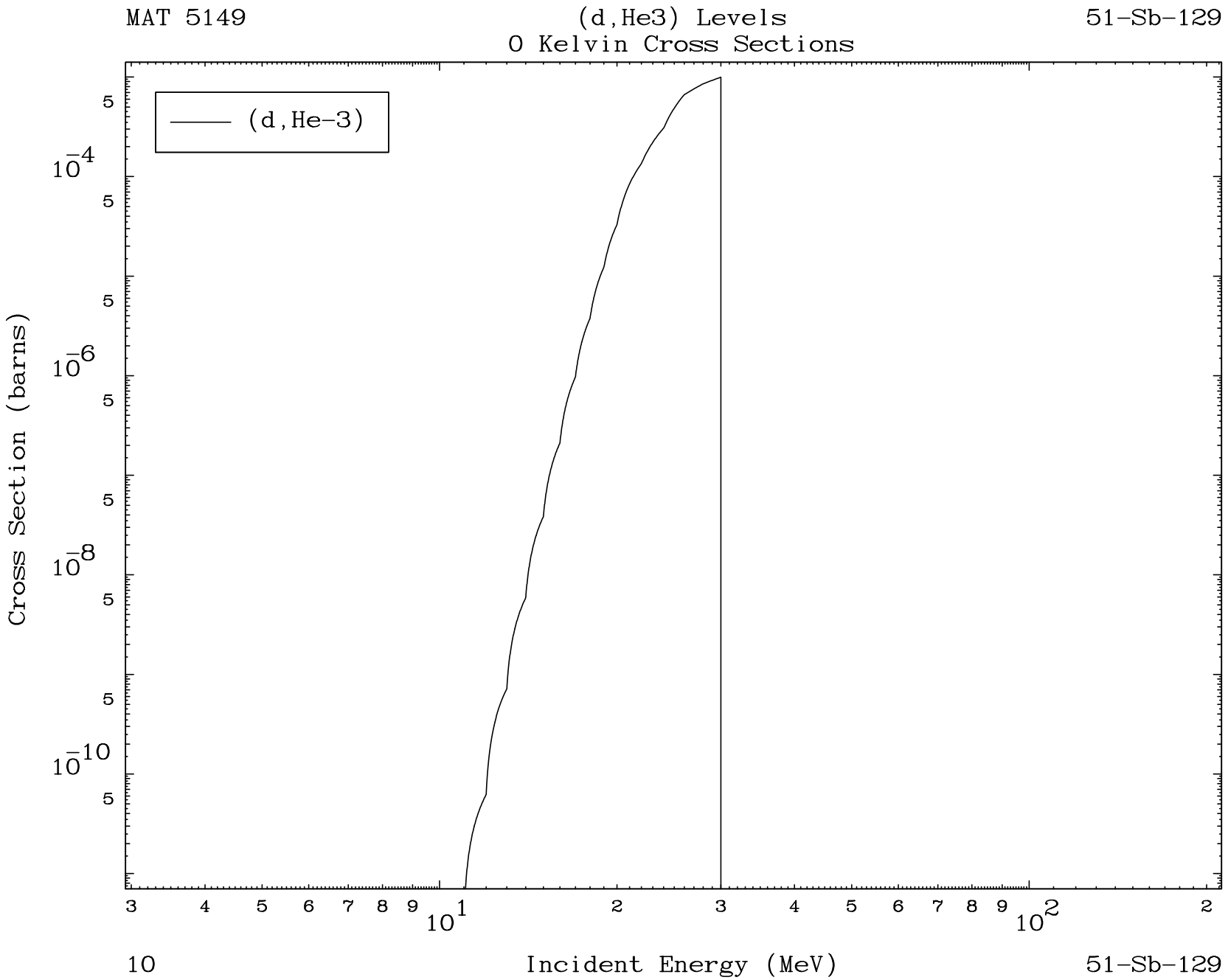

MAT 5149
Deuteron Charged Particle
0 Kelvin Cross Sections
51-Sb-129
(d,p)
(d,d)
(d,t)
(d,He-3)
(d,α)
(d,2p)
(d,p) α
(d,p) d
(d,p) t
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
5
51-Sb-129

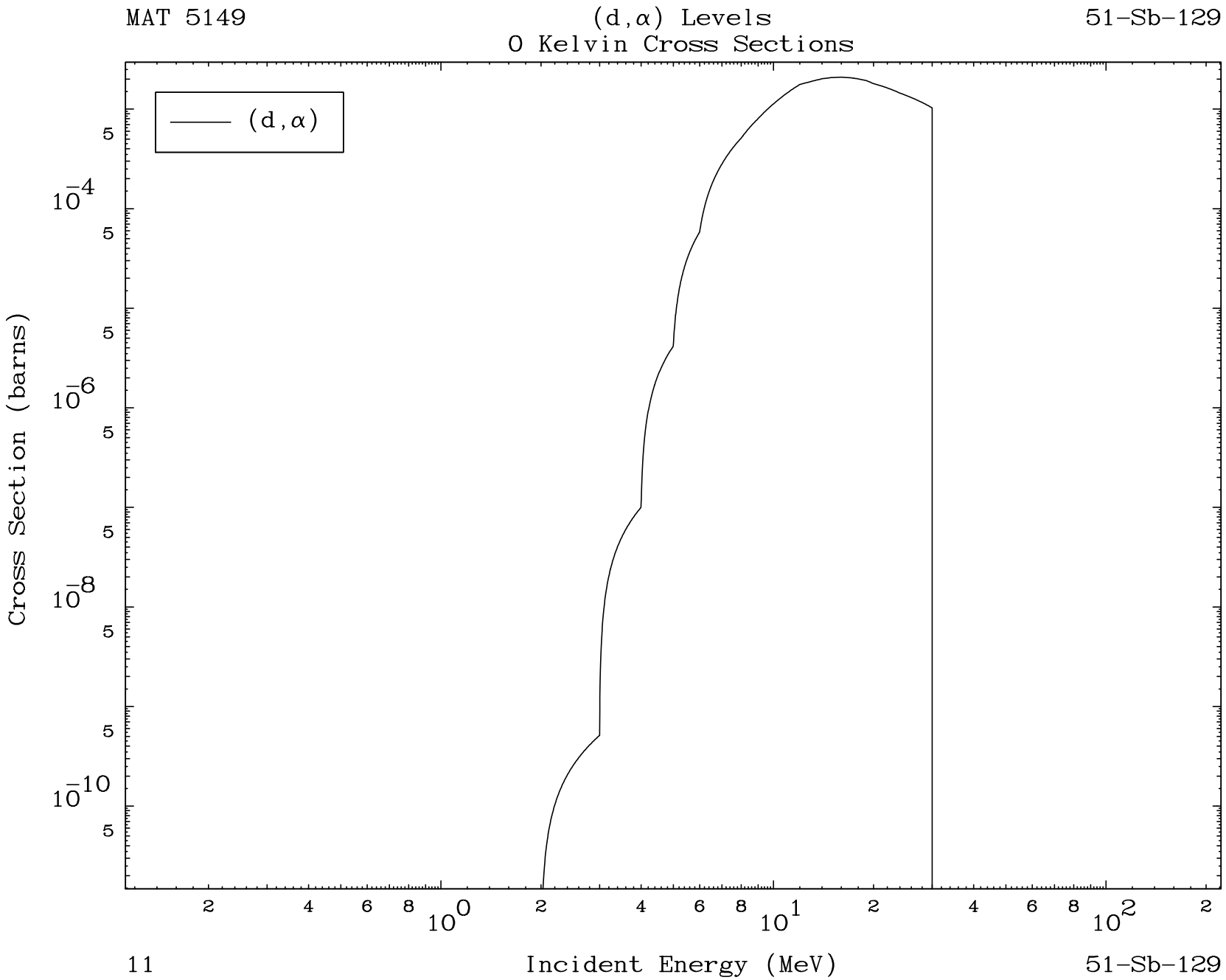

MAT 5149
(d,n') Level
51-Sb-129
0 Kelvin Cross Sections
Deuteron Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)
6
51-Sb-129

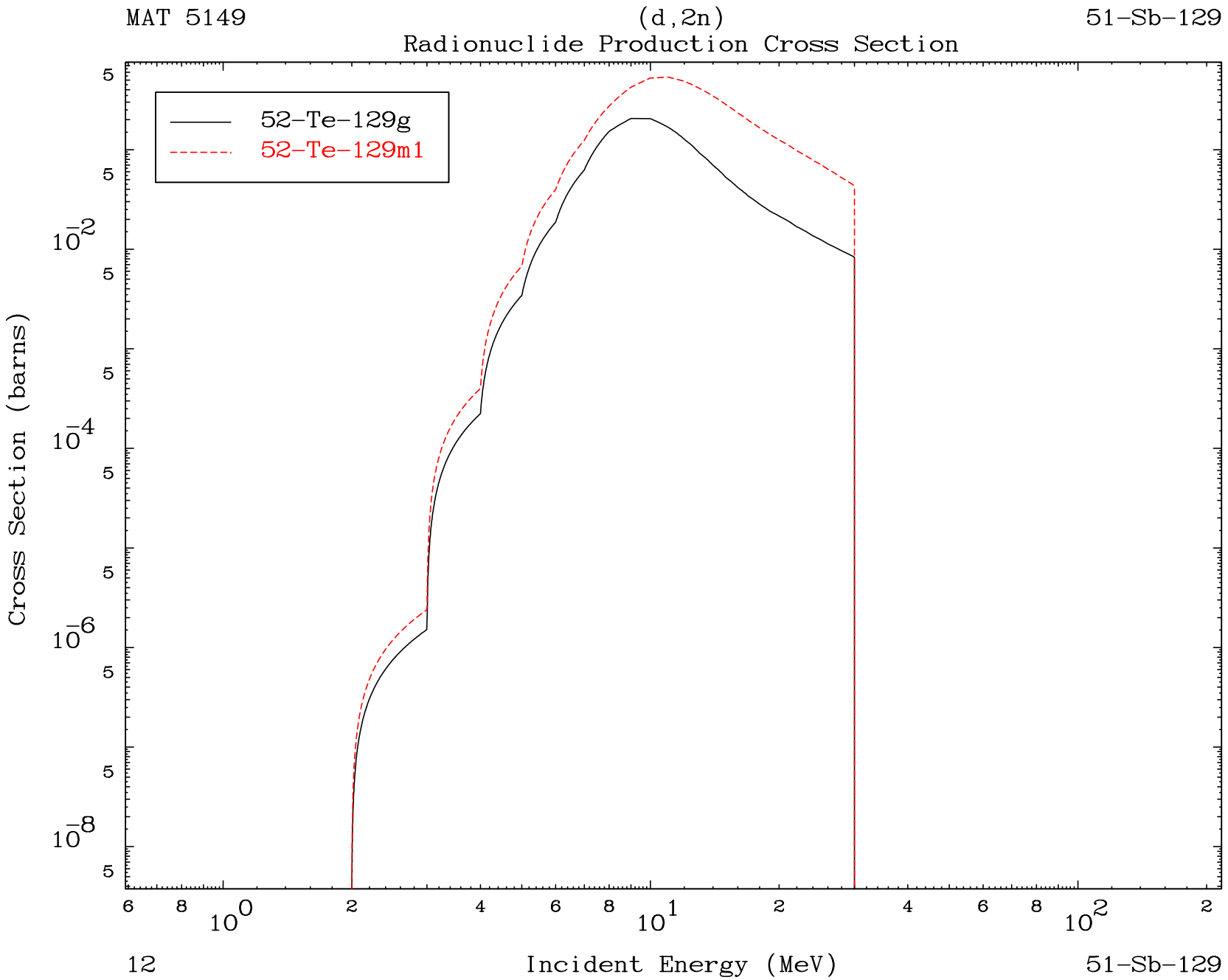

MAT 5149
(d,p) Levels
51-Sb-129
0 Kelvin Cross Sections
(d,p)
Cross Section (barns)
Incident Energy (MeV)
7
51-Sb-129

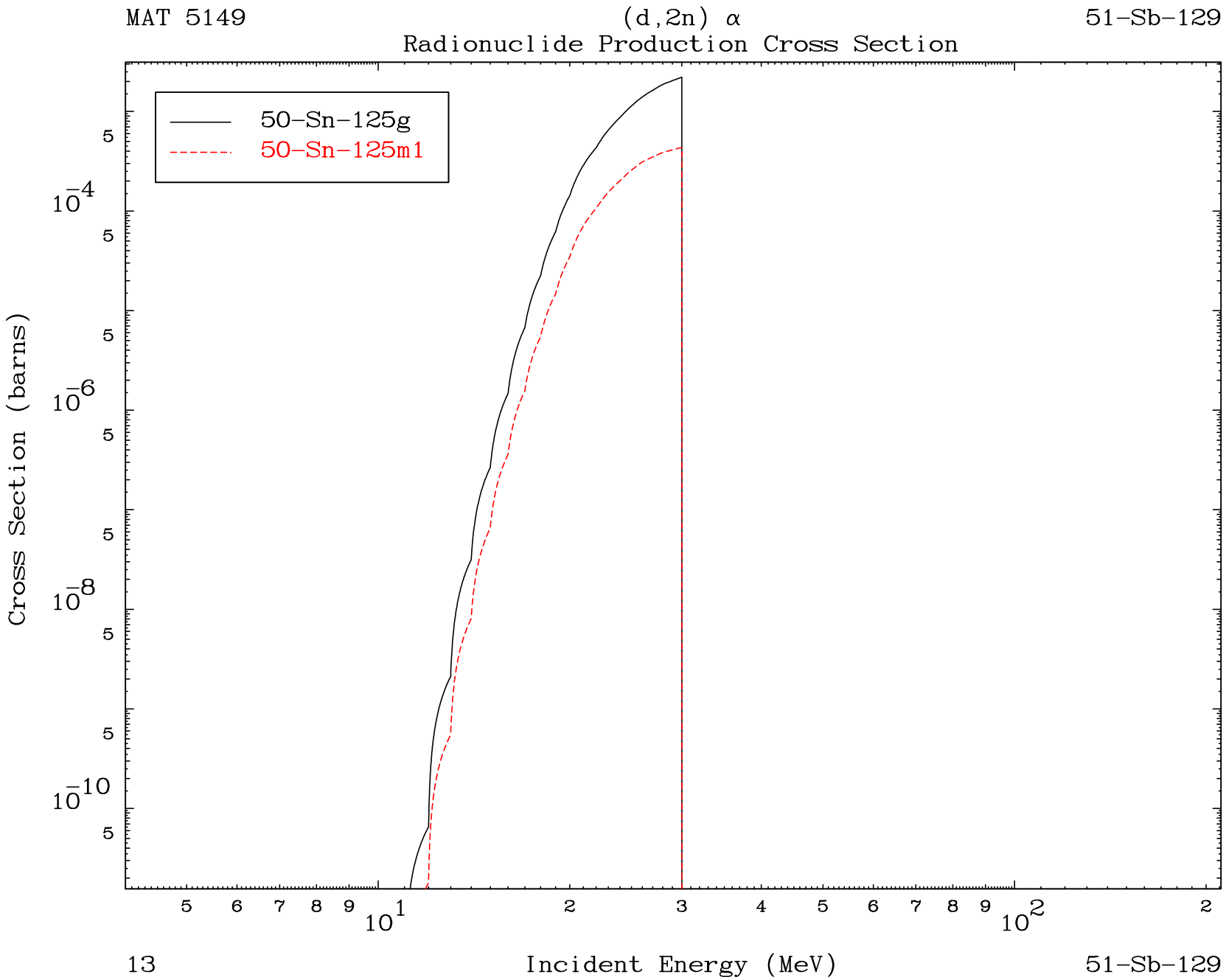

MAT 5149
(d,d) Levels
51-Sb-129
0 Kelvin Cross Sections
(d,d)
Cross Section (barns)
Incident Energy (MeV)
51-Sb-129
8

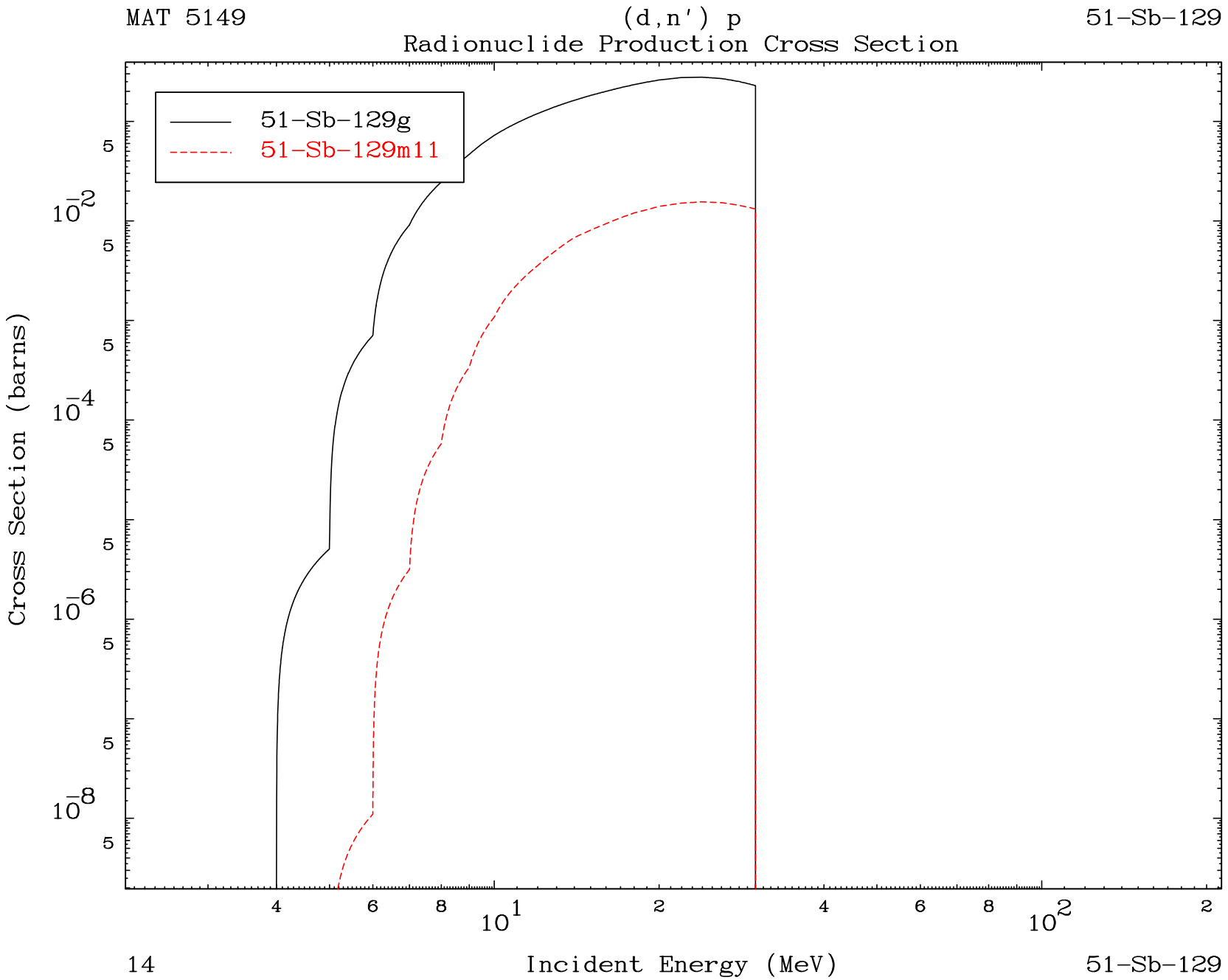

MAT 5149
(d,t) Levels
51-Sb-129
0 Kelvin Cross Sections
(d,t)
Cross Section (barns)
Incident Energy (MeV)
9
51-Sb-129

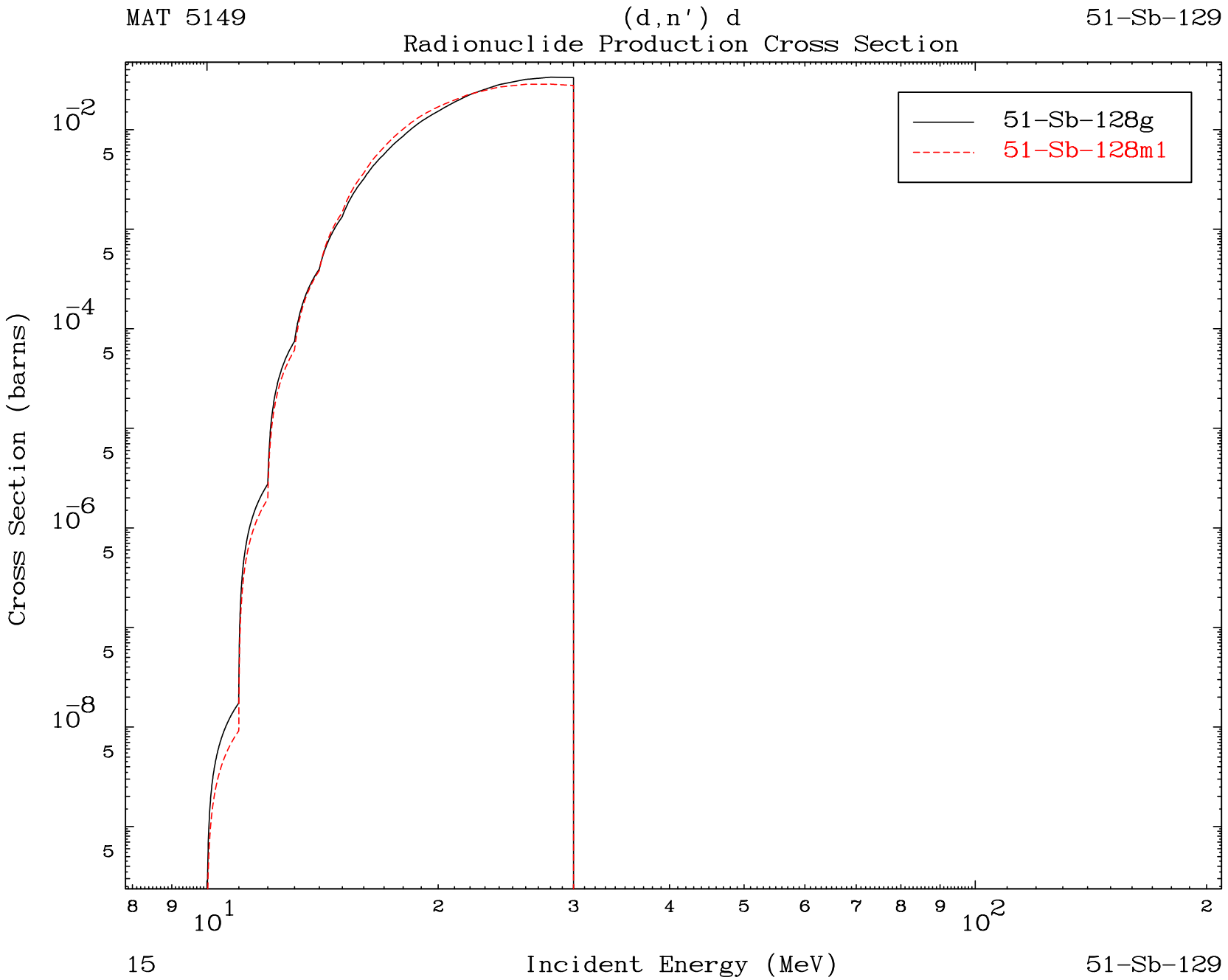

MAT 5149
(d,He3) Levels
51-Sb-129
0 Kelvin Cross Sections
(d,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10
51-Sb-129

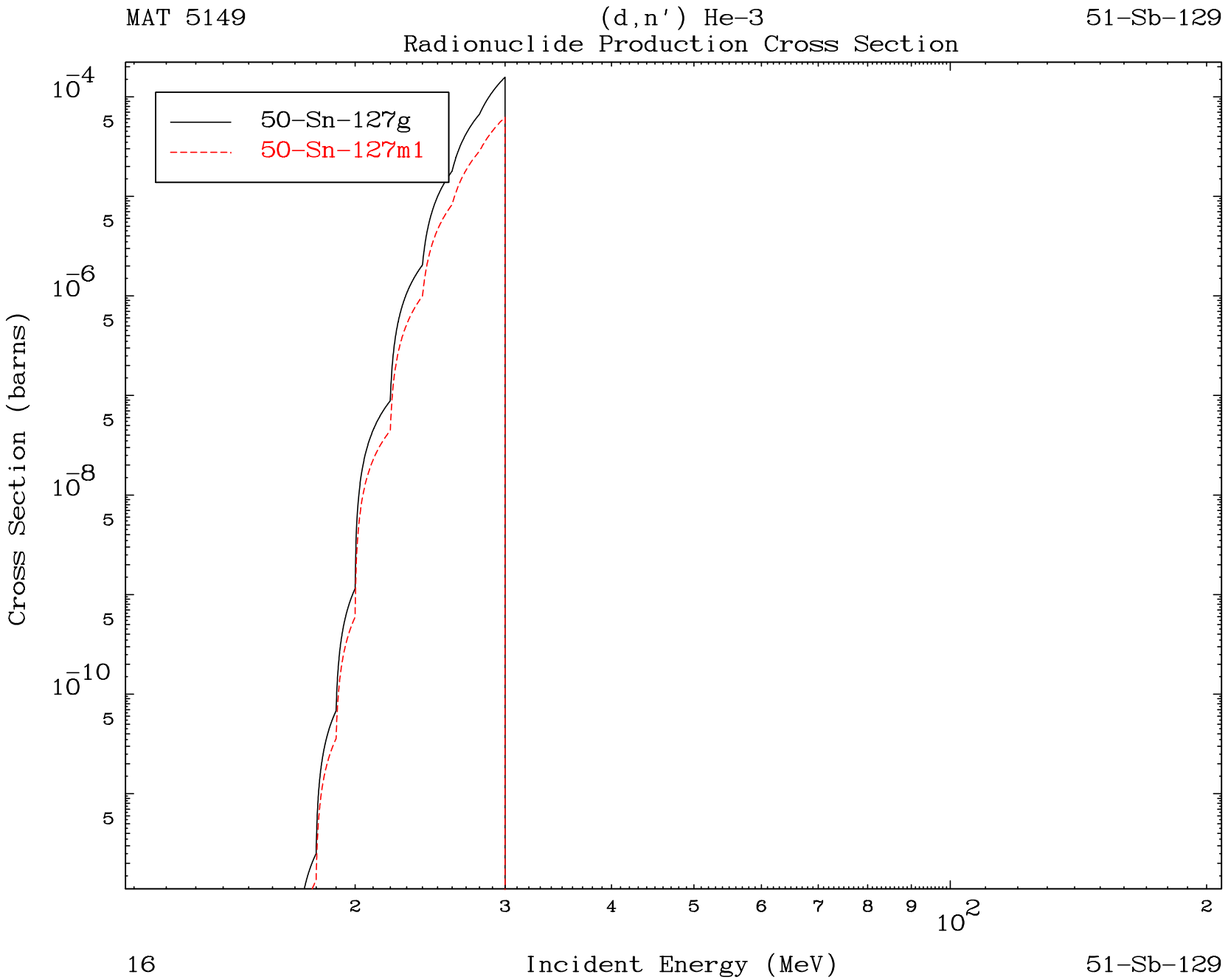

MAT 5149
(d,α) Levels
51-Sb-129
0 Kelvin Cross Sections
(d,α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
11
51-Sb-129

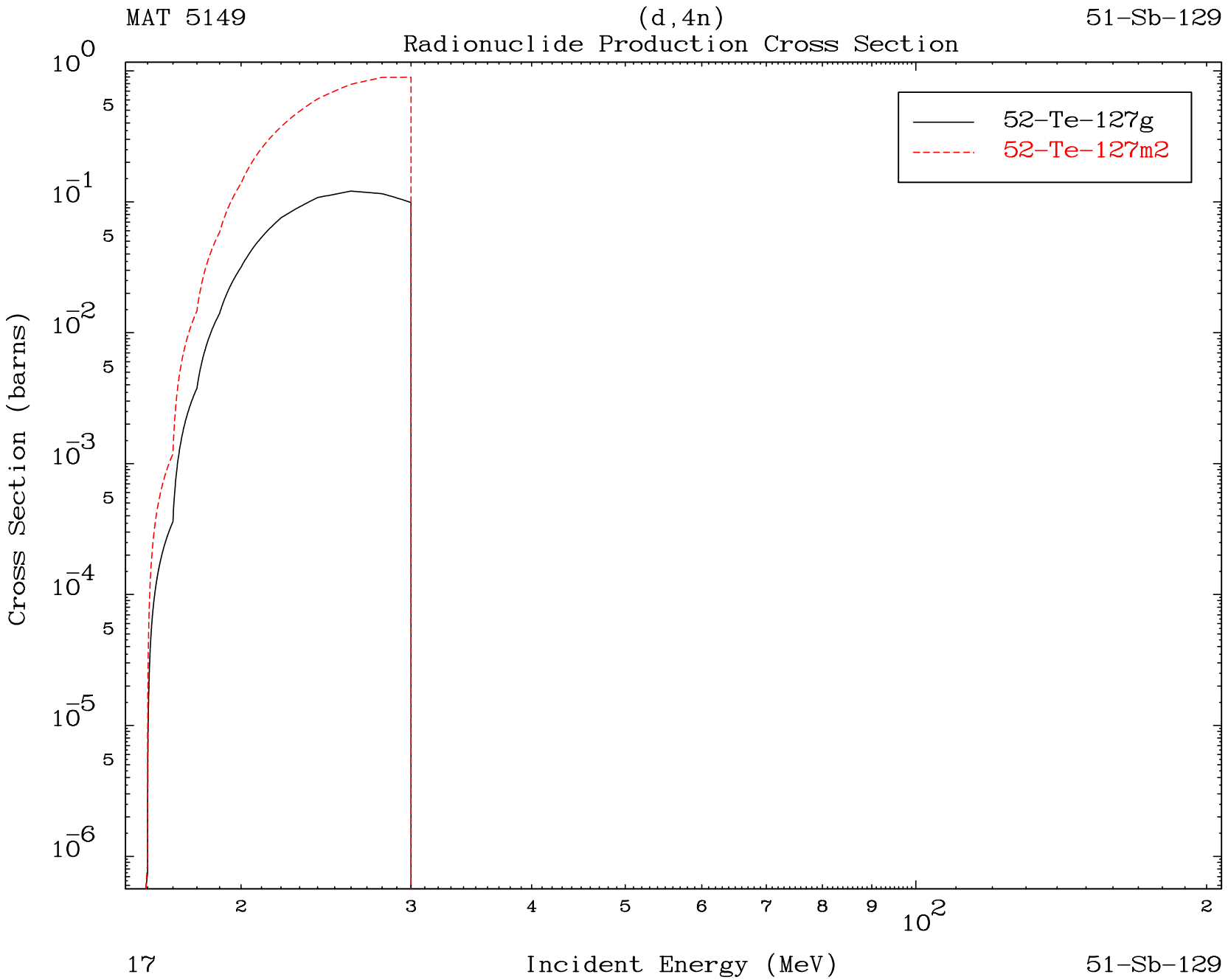

MAT 5149
(d,2n)
51-Sb-129
Radionuclide Production Cross Section
52-Te-129g
52-Te-129m1
Cross Section (barns)
Incident Energy (MeV)
12
51-Sb-129

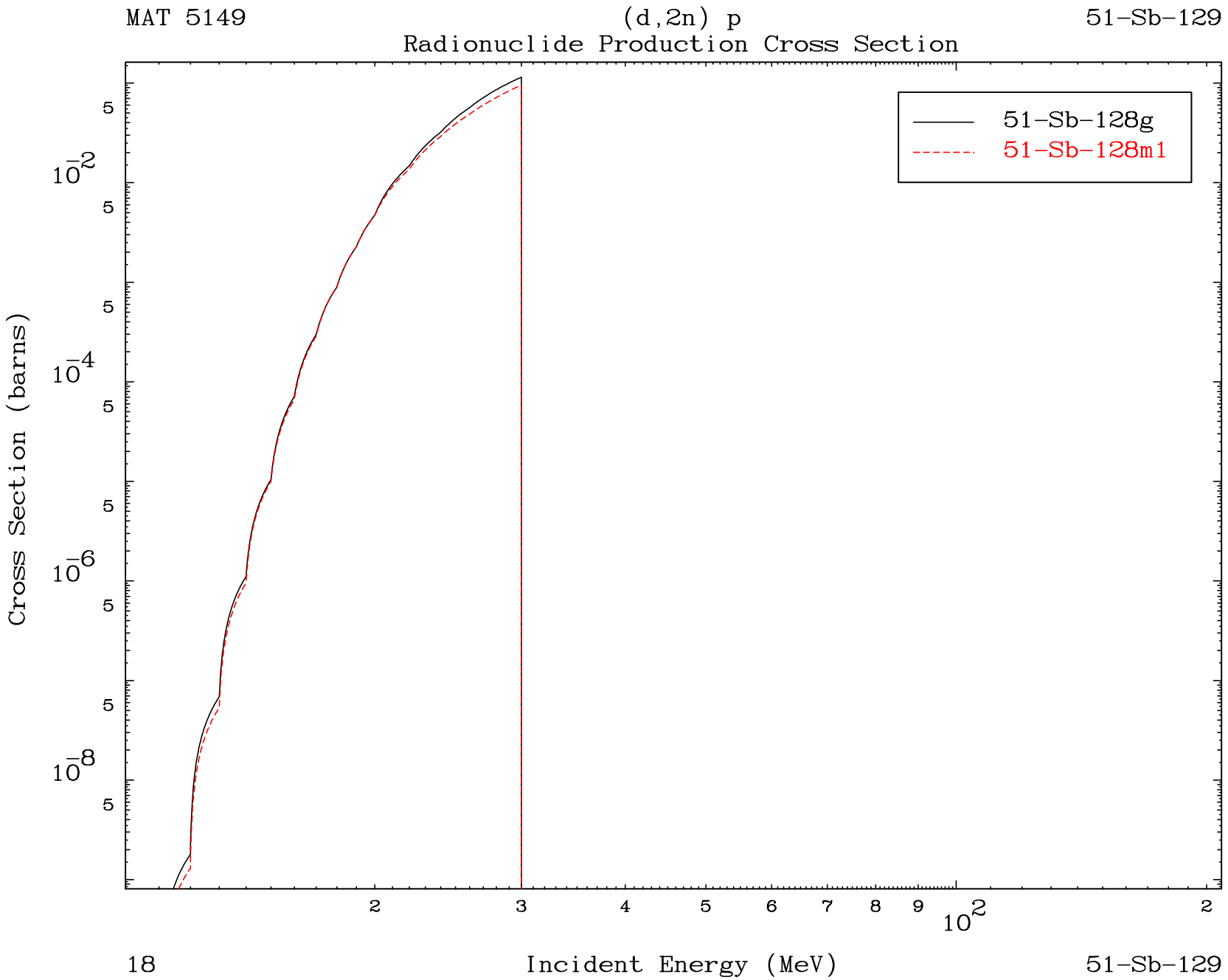

MAT 5149
(d,2n) α
51-Sb-129
Radionuclide Production Cross Section
50-Sn-125g
50-Sn-125m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
5
5
5
5
5
5
5
5 6 7 8 9 10 1
2
3
4
5
6
7
8
9 10 2
2
13
Incident Energy (MeV)
51-Sb-129

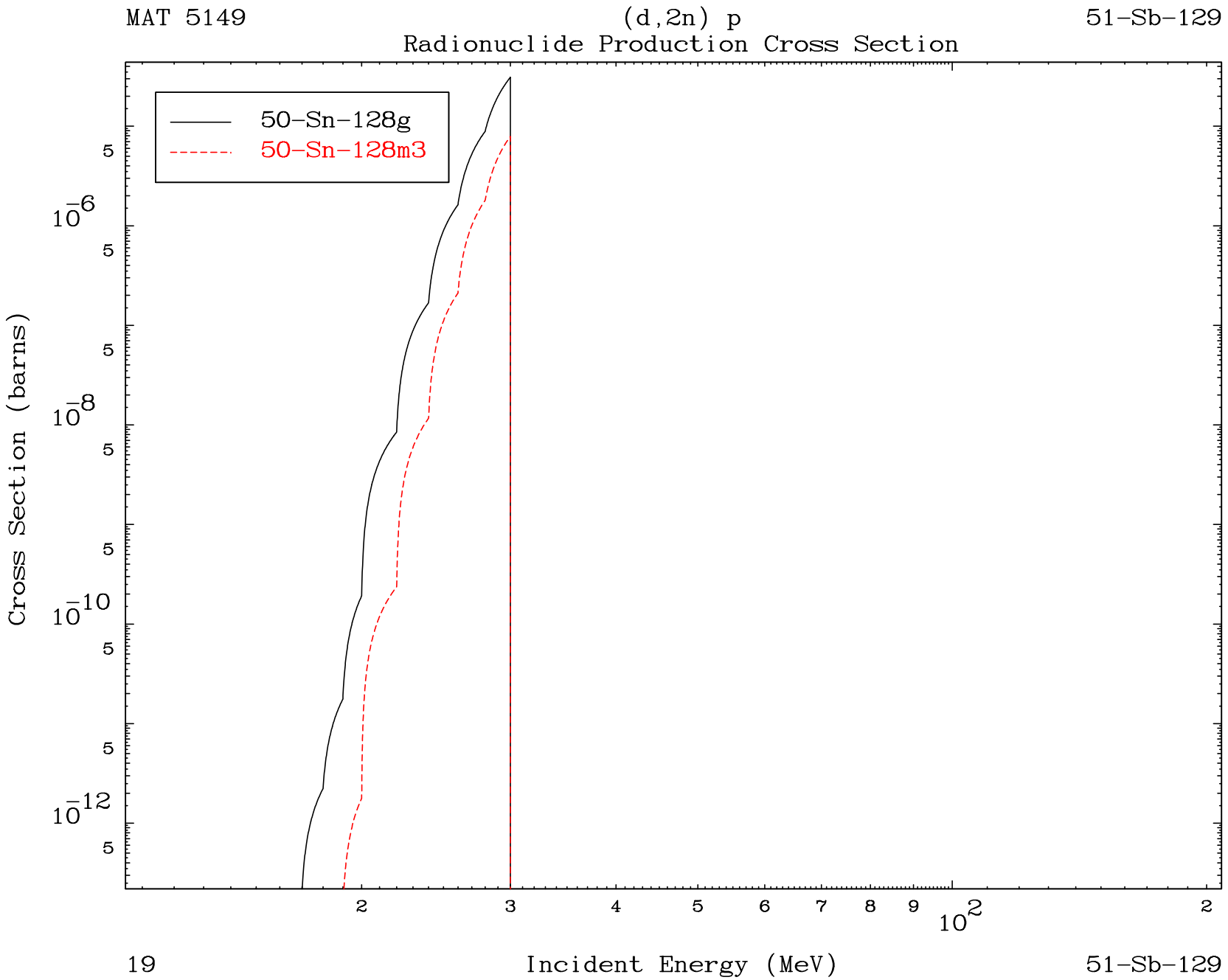

MAT 5149
(d,n') p
51-Sb-129
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
Incident Energy (MeV)
14
51-Sb-129

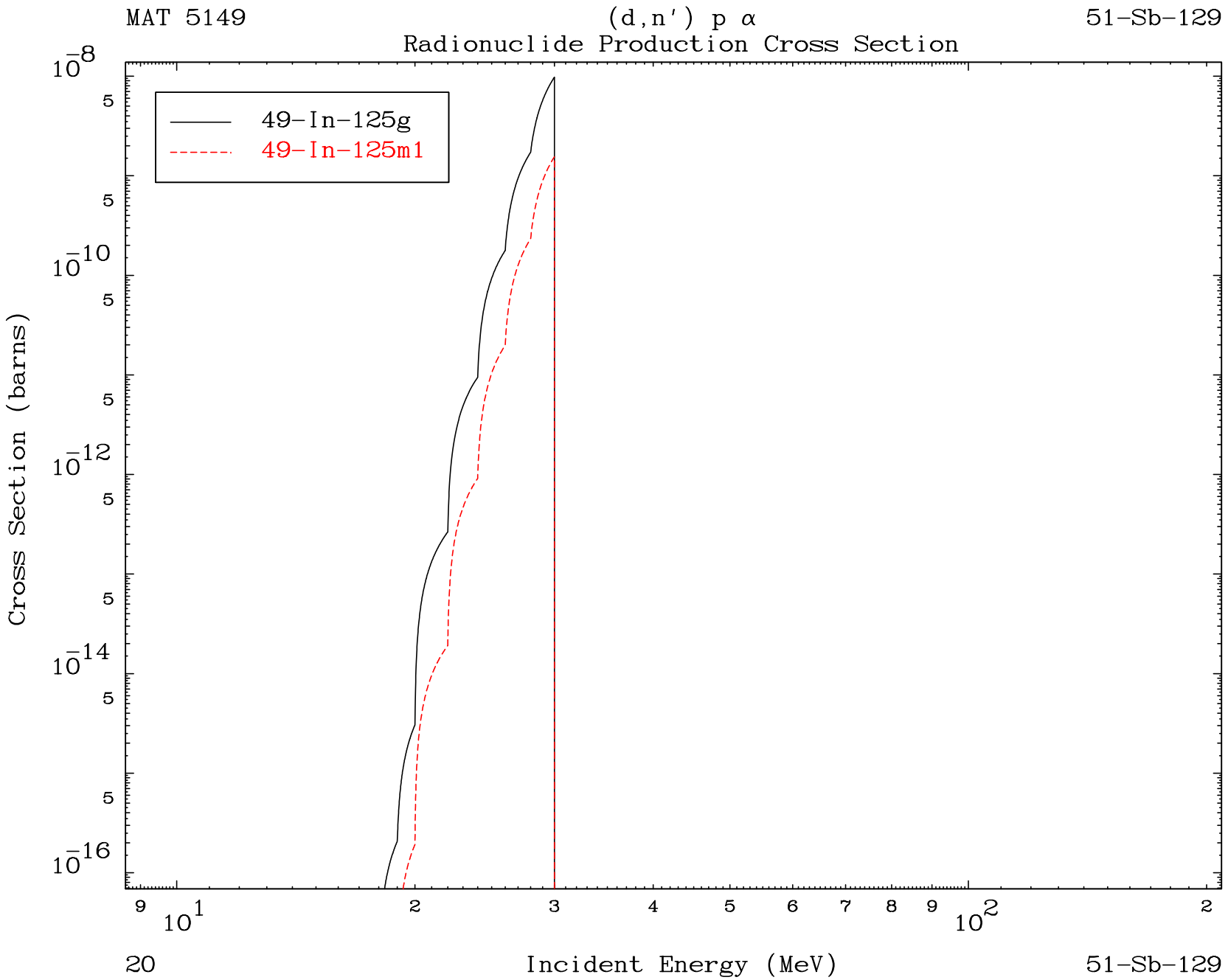

MAT 5149
(d,n') d
51-Sb-129
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
Incident Energy (MeV)
15
51-Sb-129

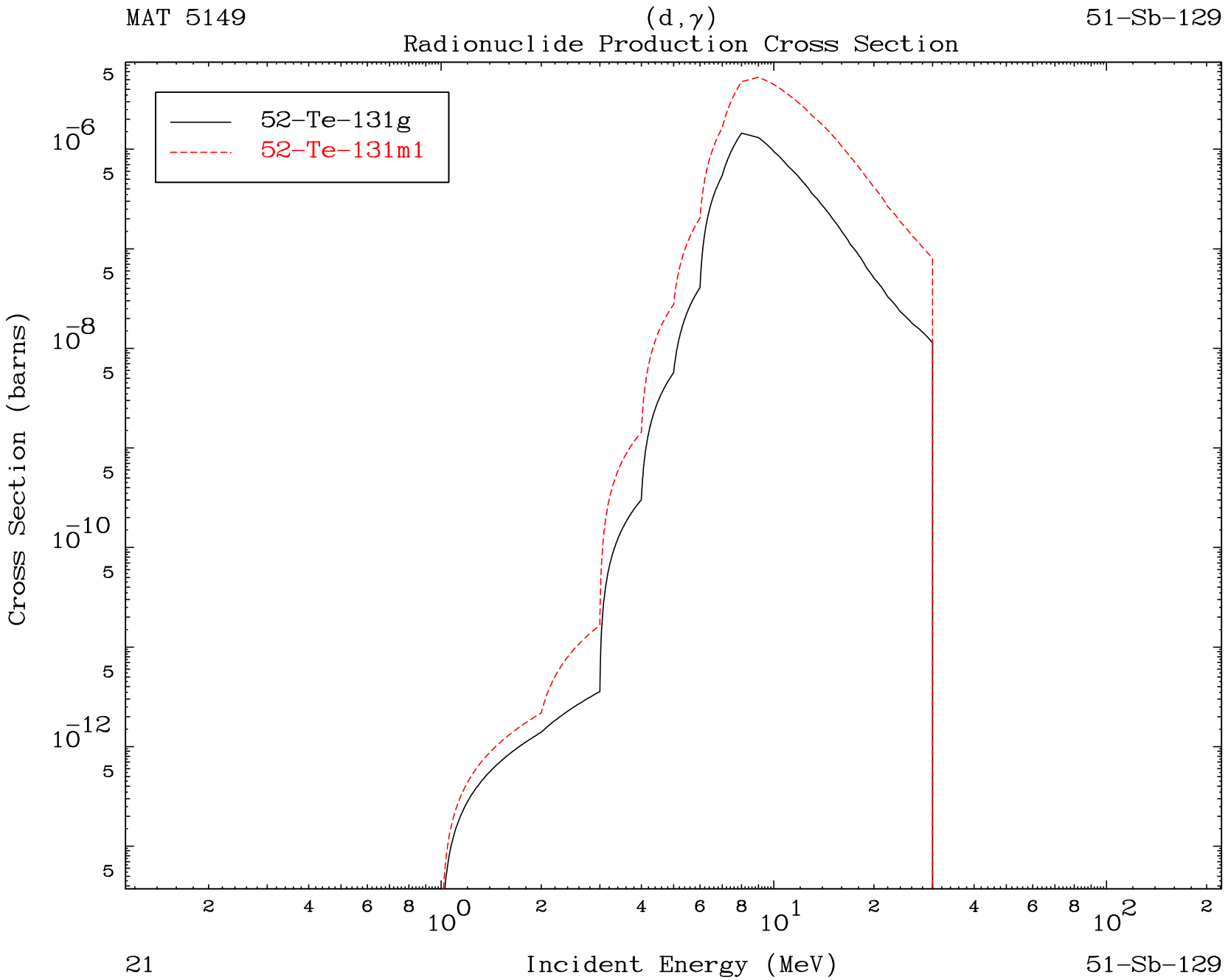

MAT 5149
(d,n') He-3
51-Sb-129
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
51-Sb-129

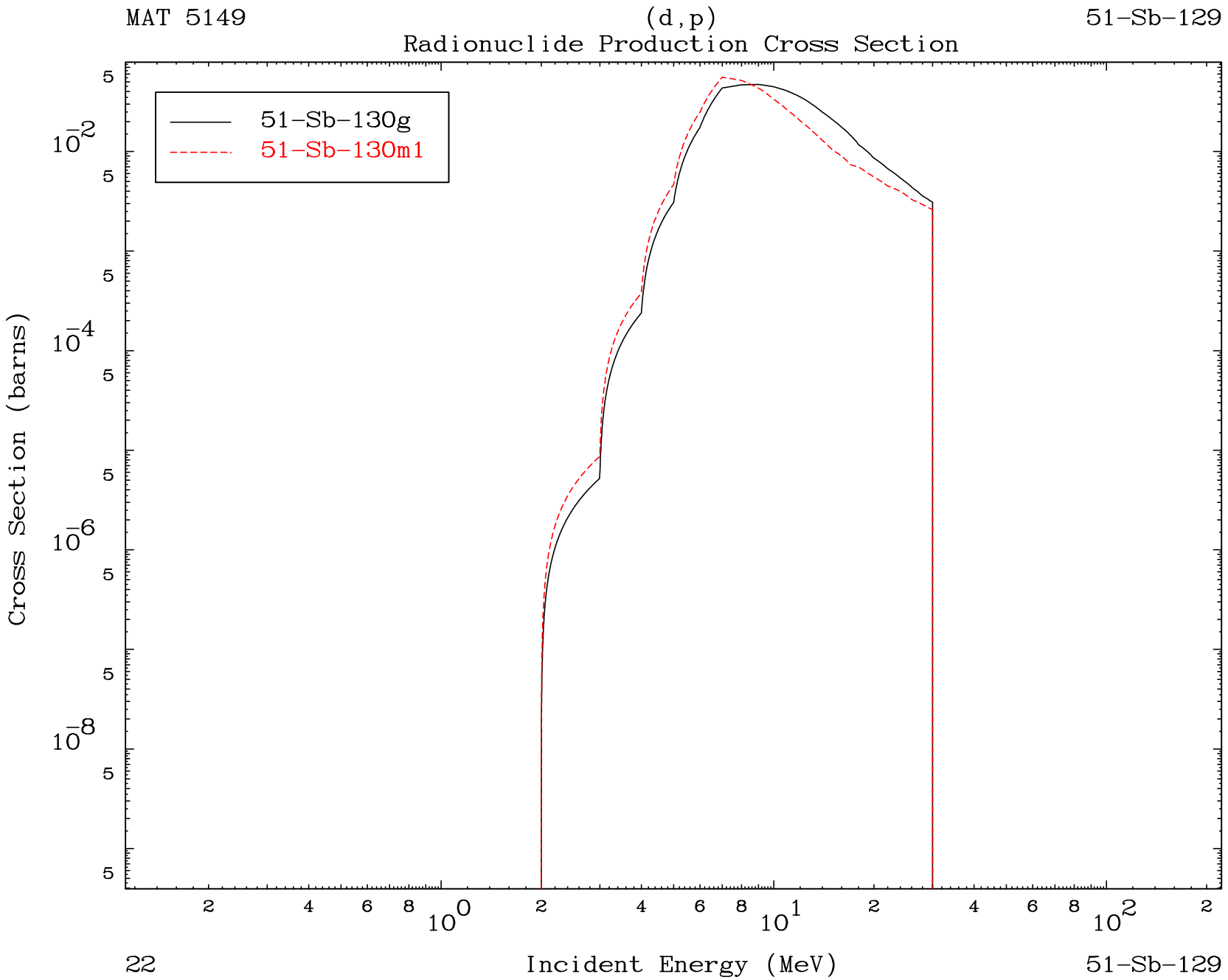

MAT 5149
(d,4n)
51-Sb-129
Radionuclide Production Cross Section
52-Te-127g
52-Te-127m2
Cross Section (barns)
Incident Energy (MeV)
17
51-Sb-129

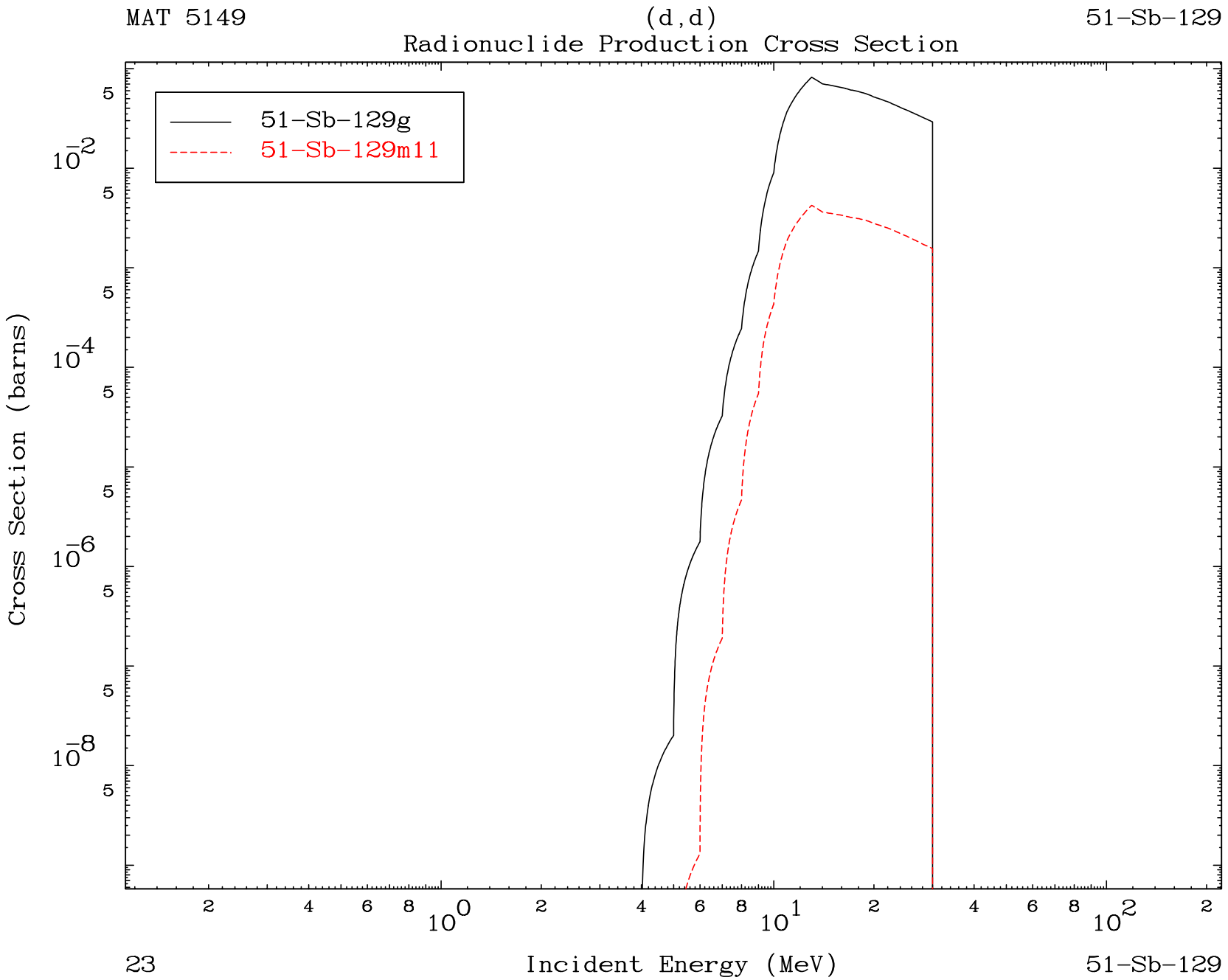

MAT 5149
(d,2n) p
51-Sb-129
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
51-Sb-129

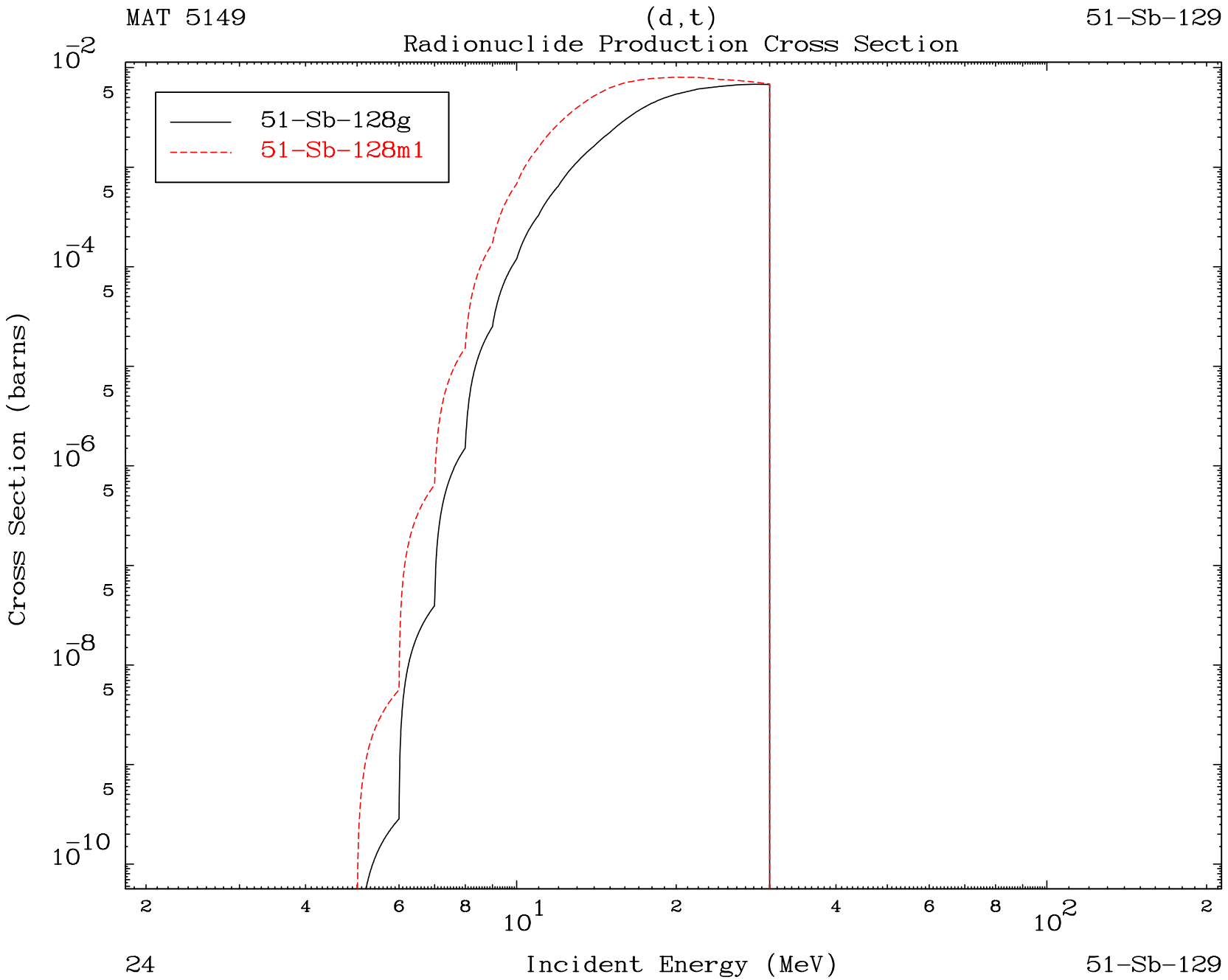

MAT 5149
(d,2n) p
51-Sb-129
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
51-Sb-129

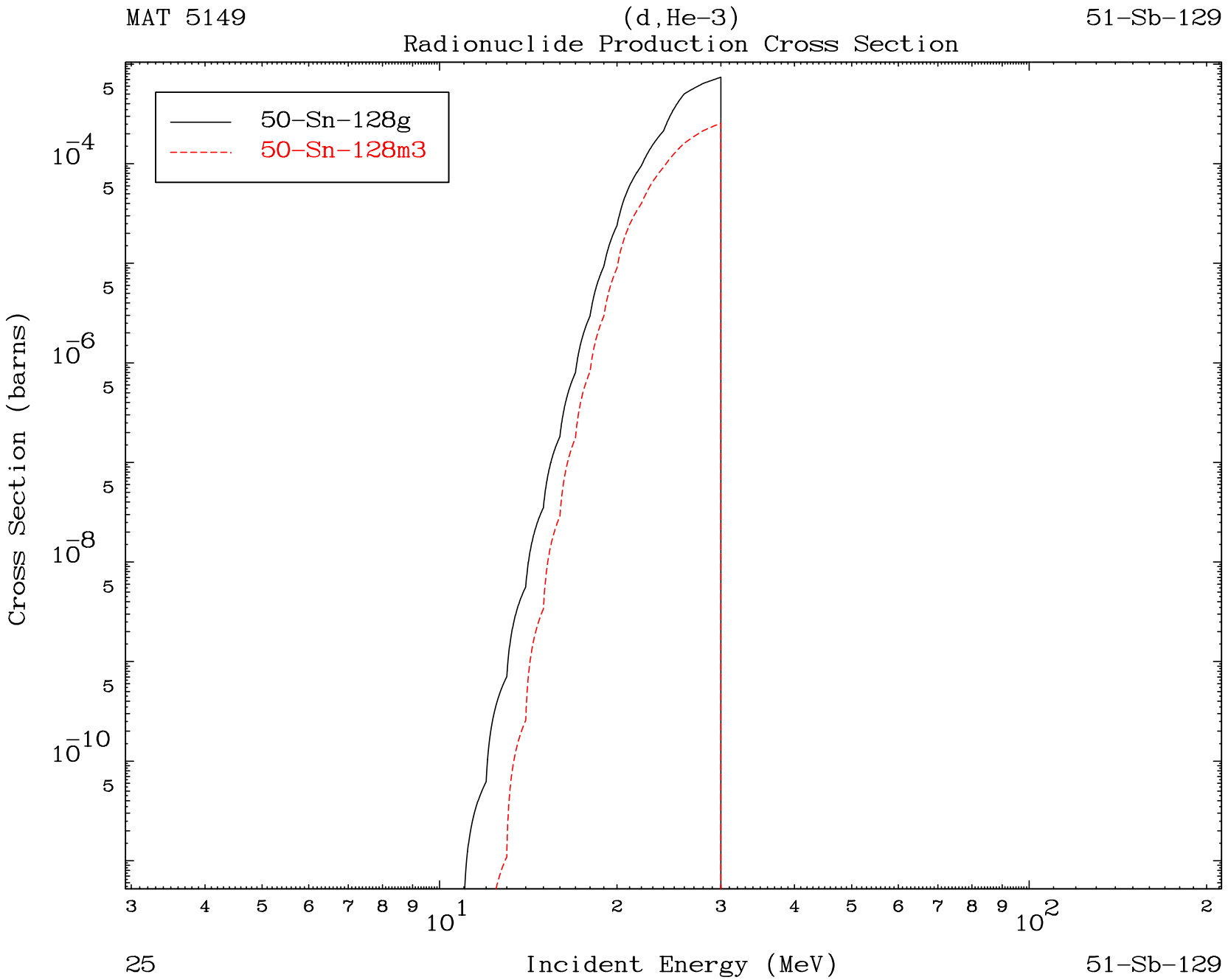

MAT 5149
(d,n') p α
51-Sb-129
Radionuclide Production Cross Section
49-In-125g
49-In-125m1
Cross Section (barns)
10-8
10-10
10-12
10-14
10-16
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
51-Sb-129

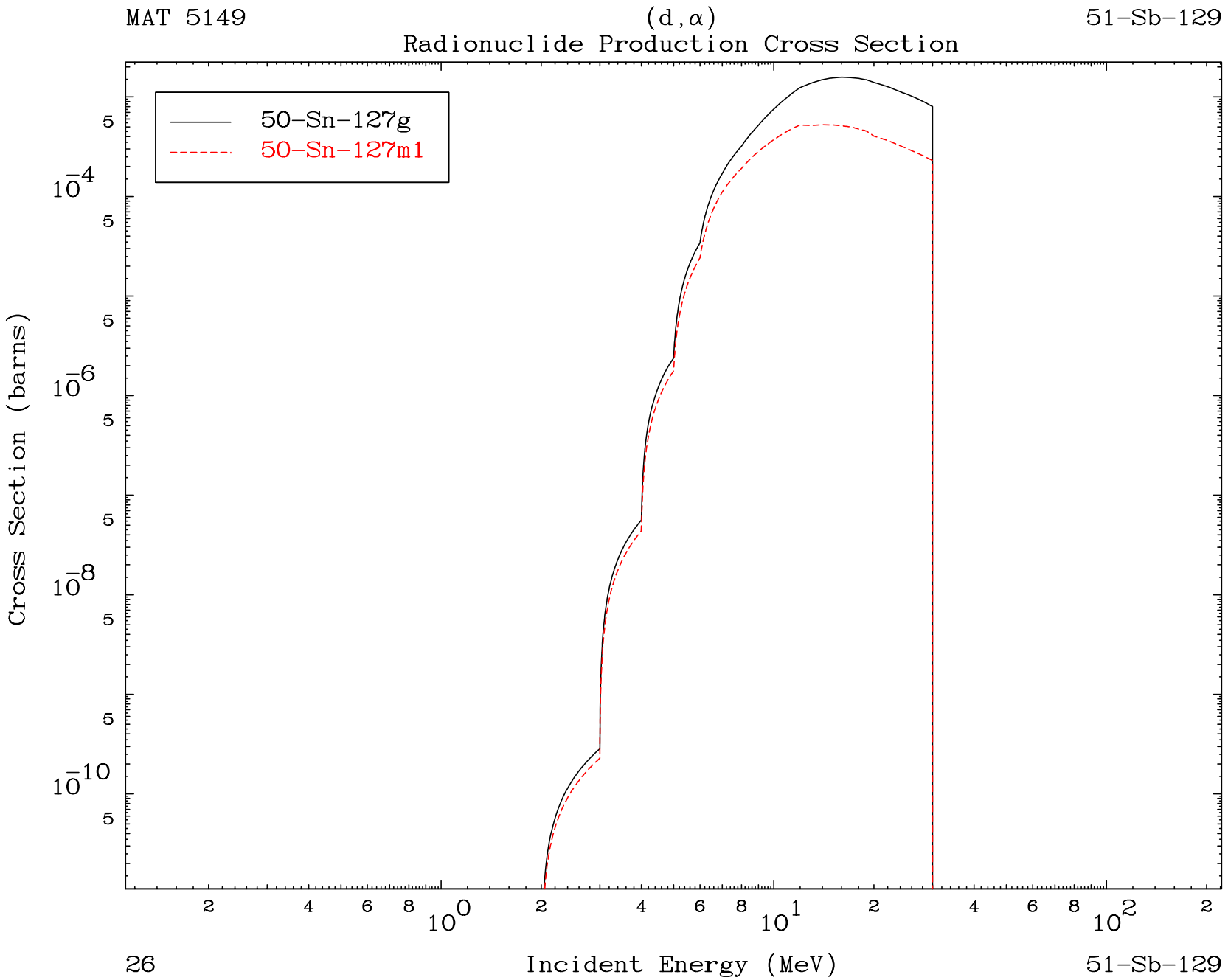

MAT 5149
(d,γ)
51-Sb-129
Radionuclide Production Cross Section
52-Te-131g
52-Te-131m1
Cross Section (barns)
Incident Energy (MeV)
21
51-Sb-129

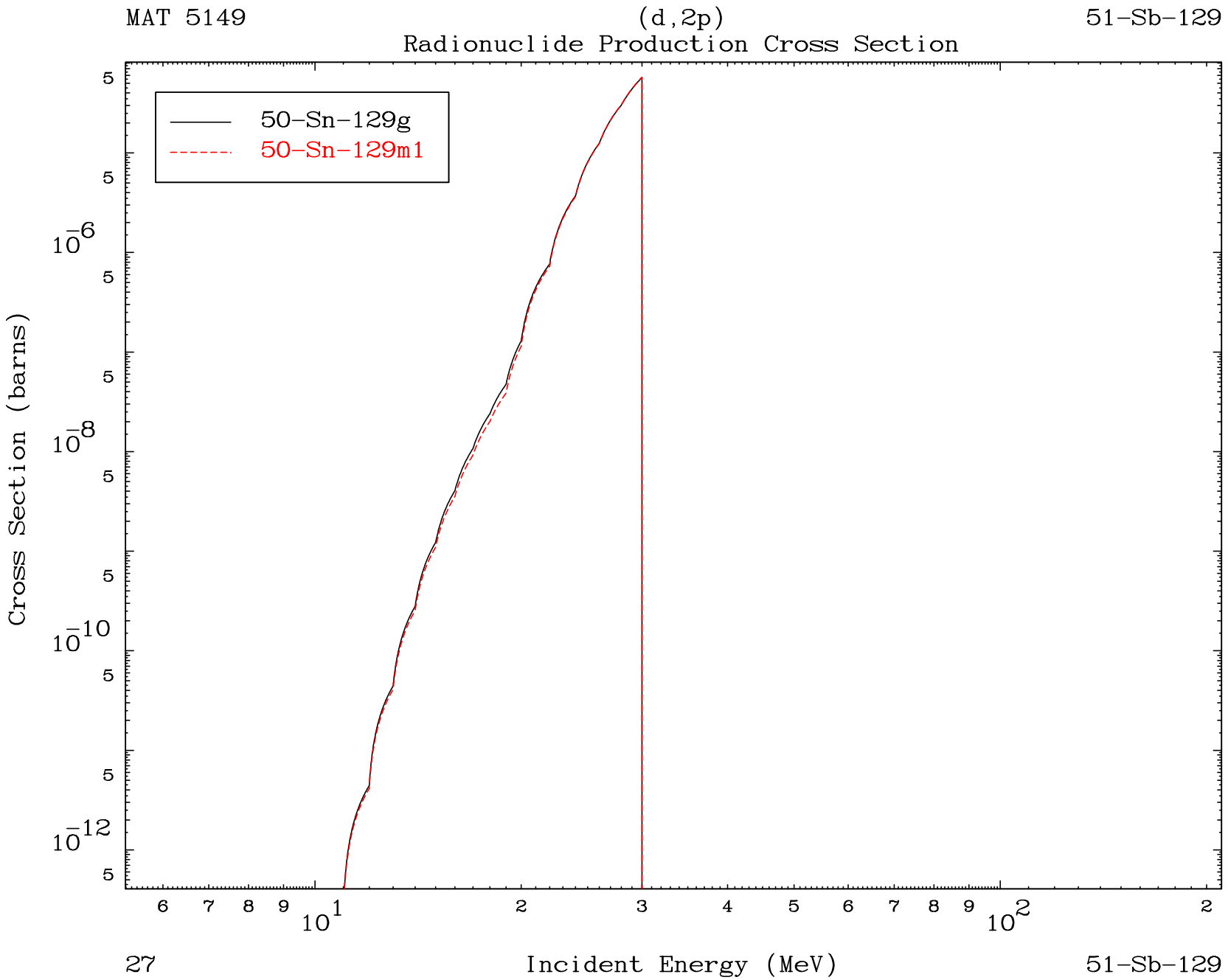

MAT 5149
(d,p)
51-Sb-129
Radionuclide Production Cross Section
51-Sb-130g
51-Sb-130m1
Cross Section (barns)
Incident Energy (MeV)
22
51-Sb-129

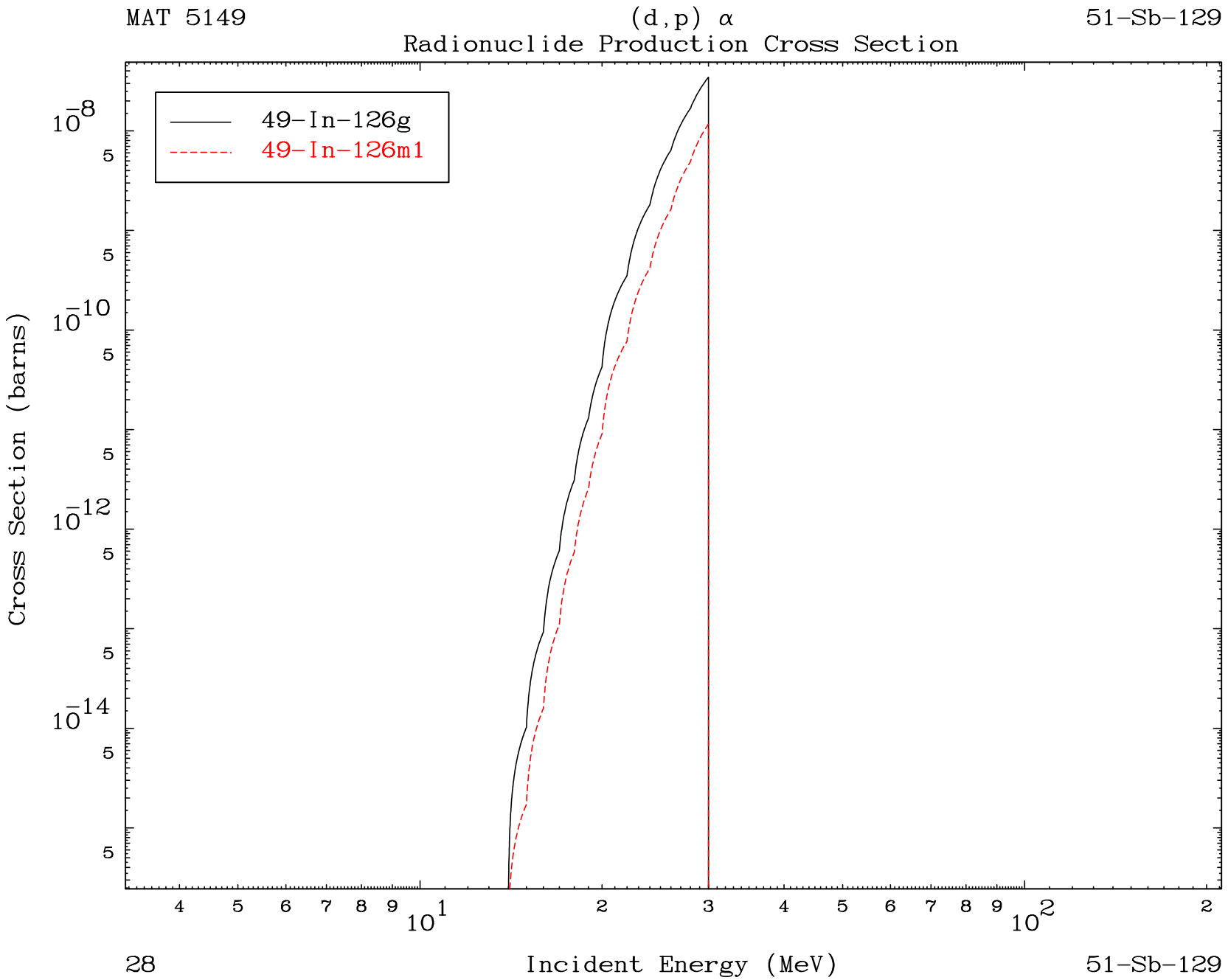

MAT 5149
(d,d)
51-Sb-129
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
Incident Energy (MeV)
23
51-Sb-129

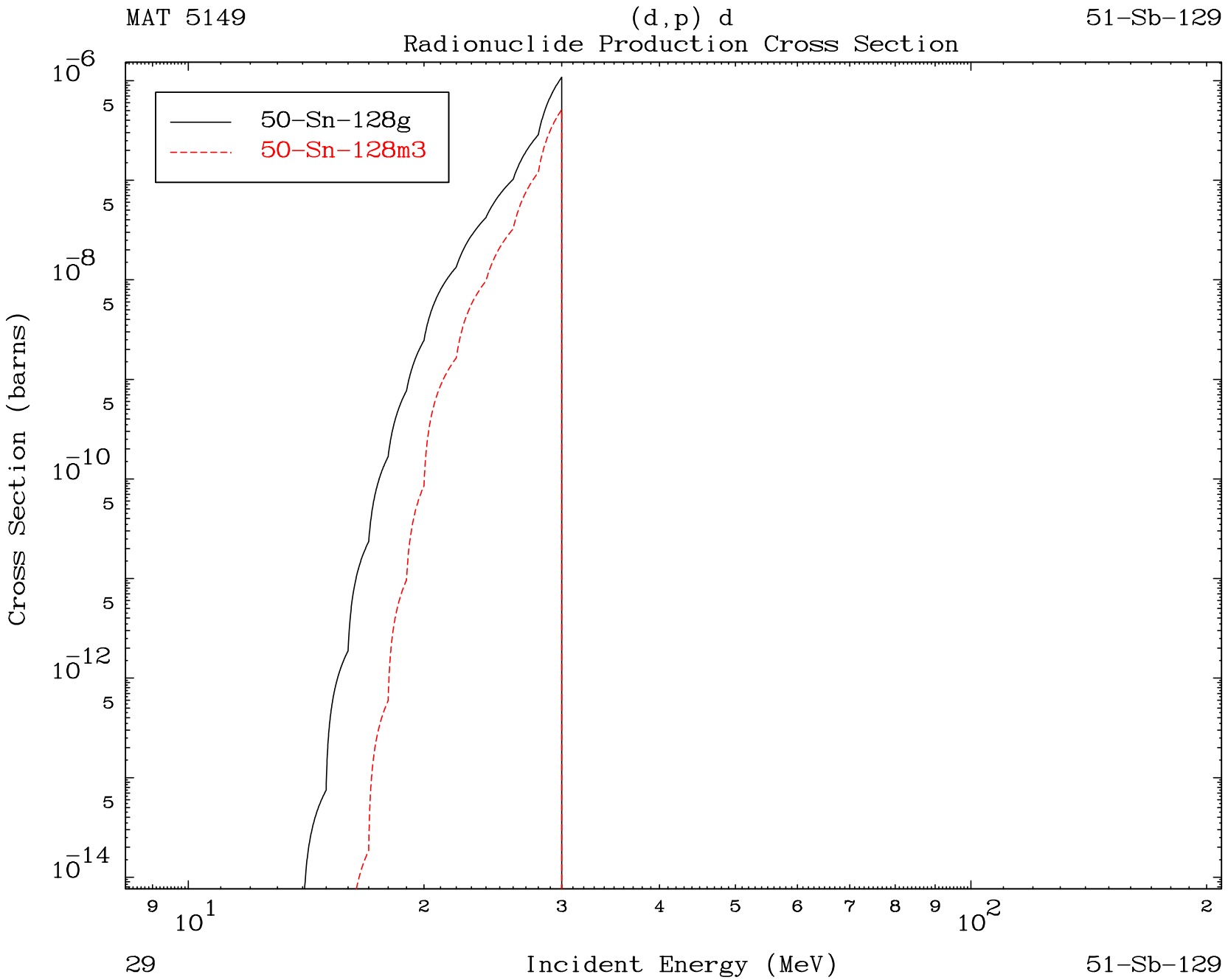

MAT 5149
(d,t)
51-Sb-129
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
Incident Energy (MeV)
24
51-Sb-129

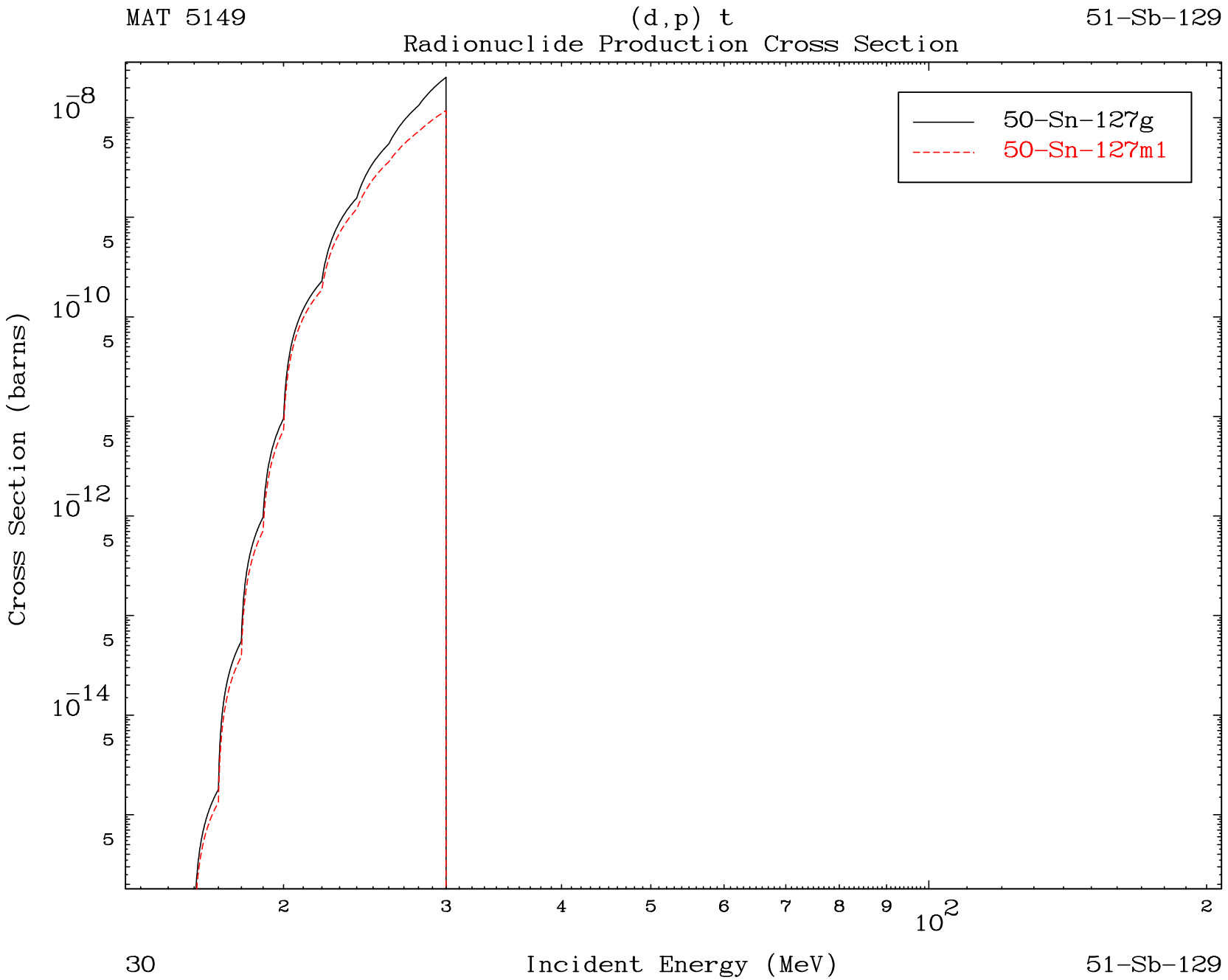

MAT 5149
(d,He-3)
51-Sb-129
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
Incident Energy (MeV)
25
51-Sb-129

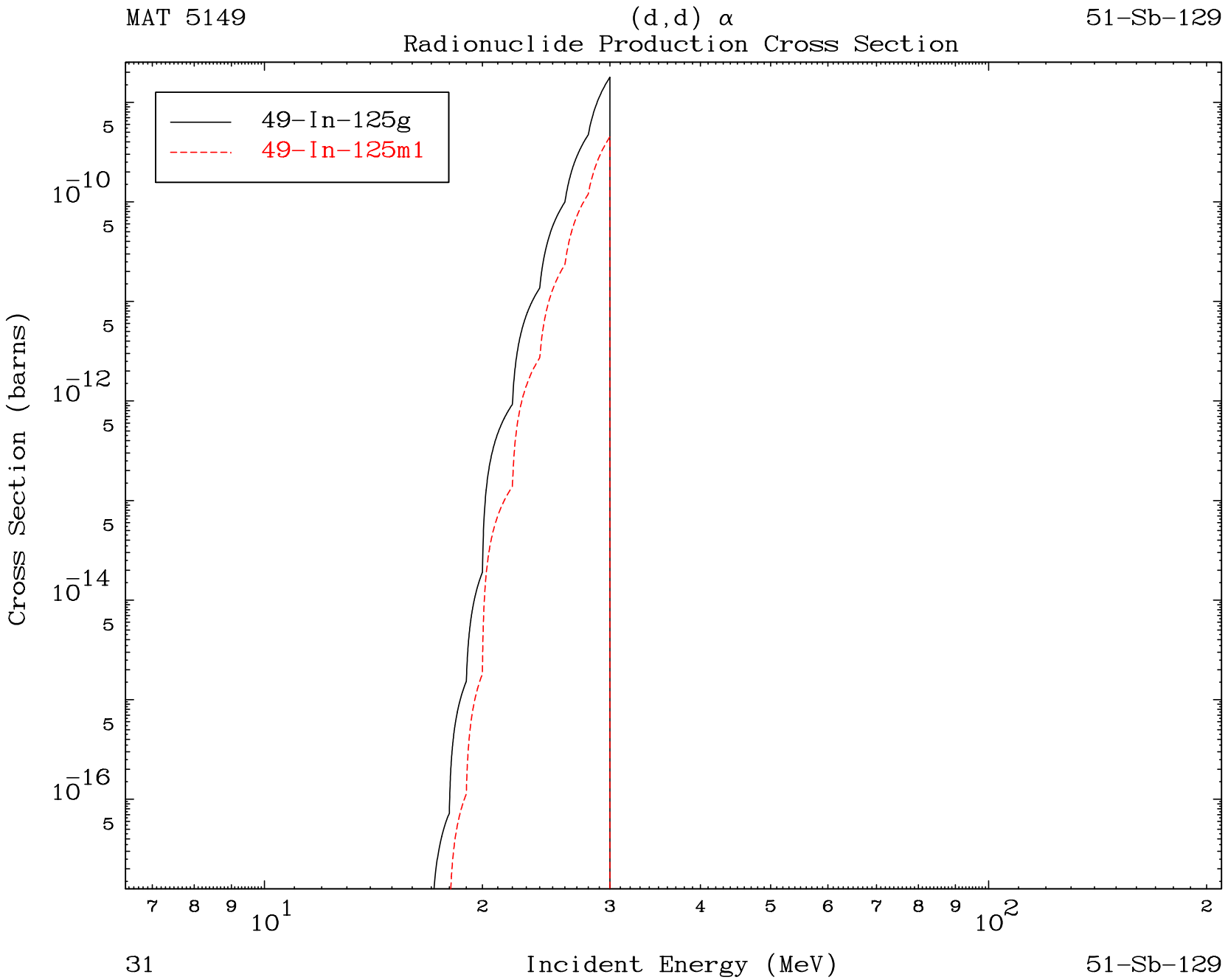

MAT 5149
(d,α)
51-Sb-129
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
26
51-Sb-129


MAT 5149
(d,2p)
51-Sb-129
Radionuclide Production Cross Section
50-Sn-129g
50-Sn-129m1
Cross Section (barns)
Incident Energy (MeV)
27
51-Sb-129


MAT 5149
(d,p) α
51-Sb-129
Radionuclide Production Cross Section
49-In-126g
49-In-126m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
28
Incident Energy (MeV)
51-Sb-129


MAT 5149
(d,p) d
51-Sb-129
Radionuclide Production Cross Section
50-Sn-128g
50-Sn-128m3
Cross Section (barns)
Incident Energy (MeV)
29
51-Sb-129


MAT 5149
(d,p) t
51-Sb-129
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
30
Incident Energy (MeV)
51-Sb-129


MAT 5149
(d,d) α
51-Sb-129
Radionuclide Production Cross Section
49-In-125g
49-In-125m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
7 8 9
10^1
2 3 4 5 6 7 8 9
10^2
2
31
Incident Energy (MeV)
51-Sb-129