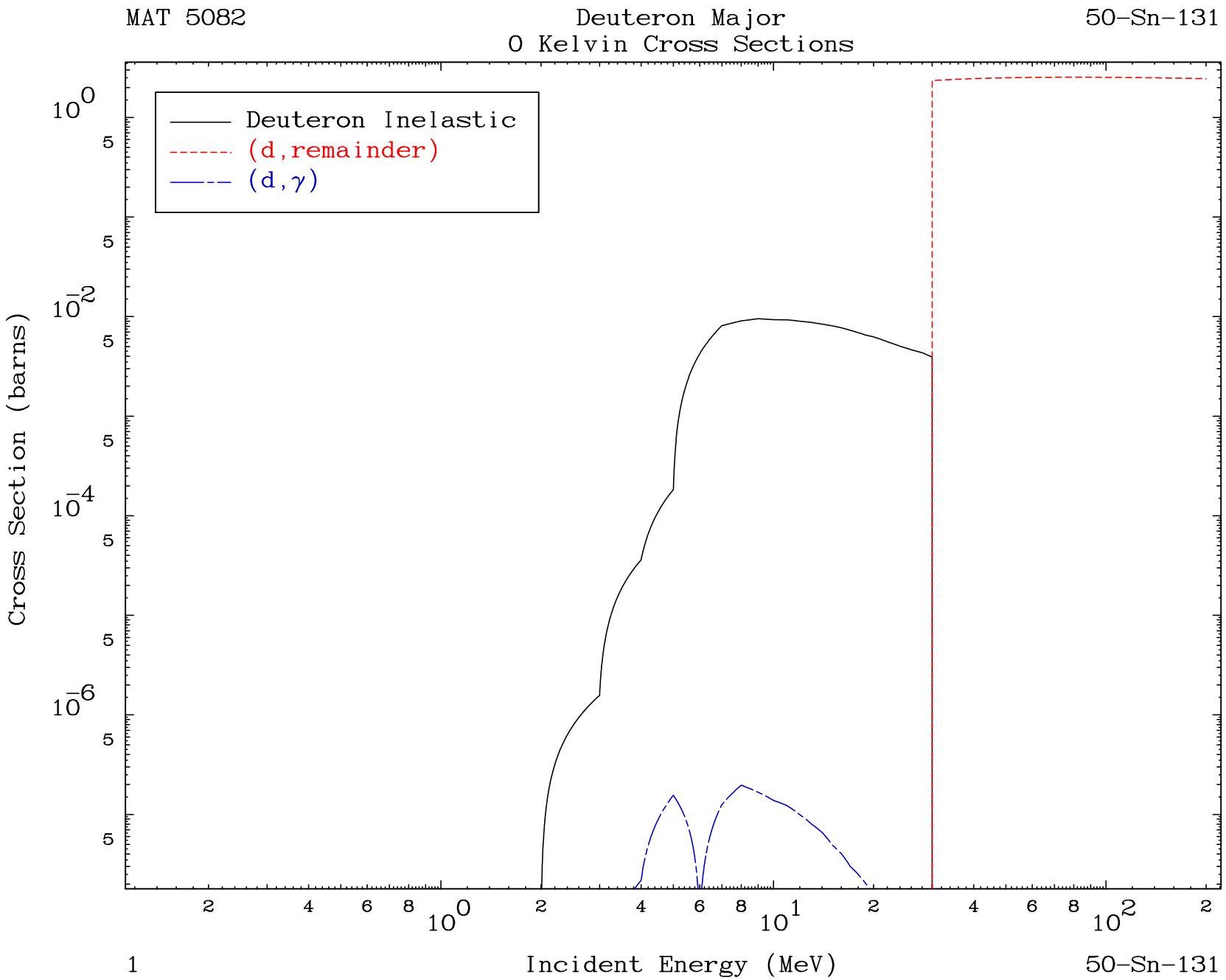
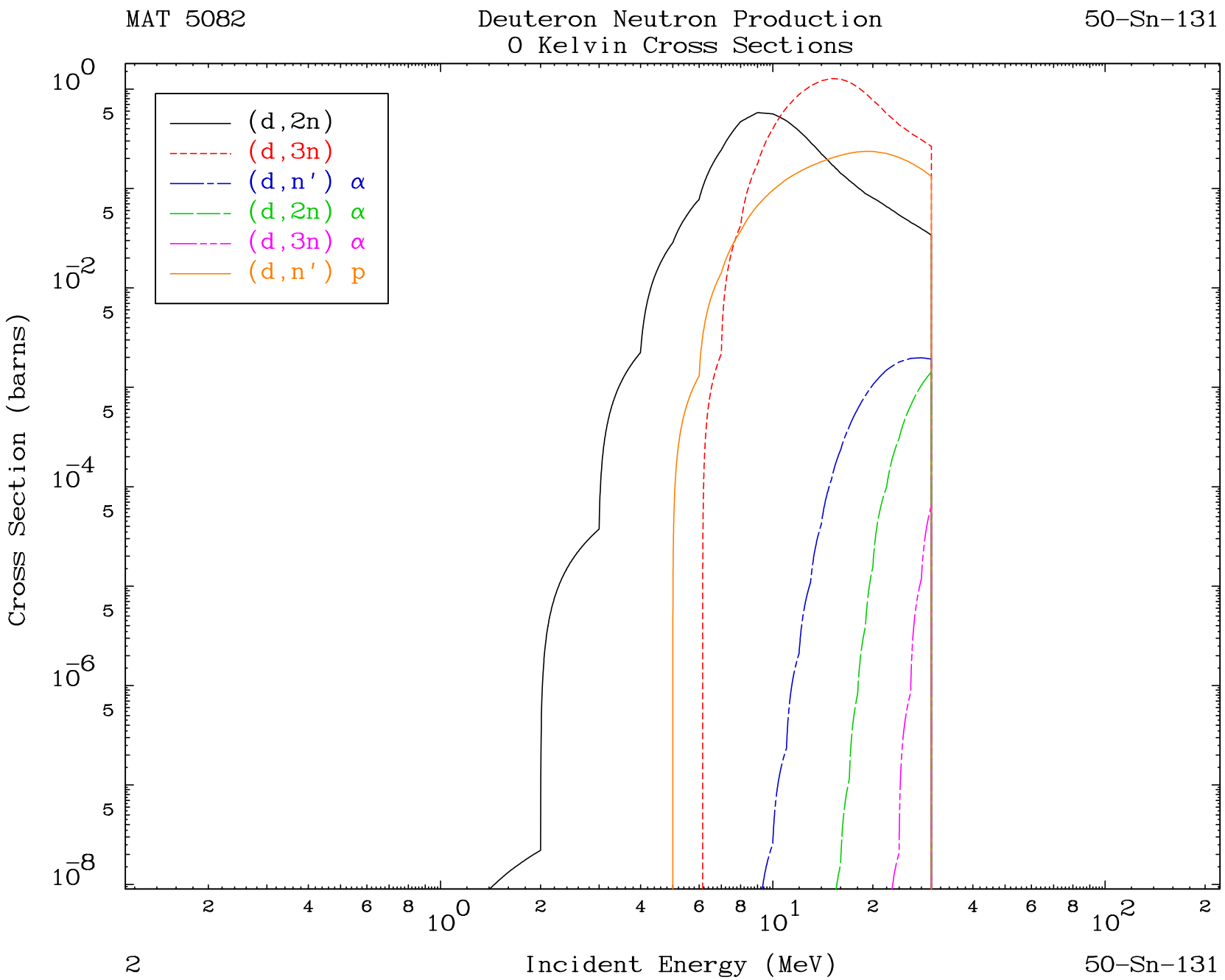
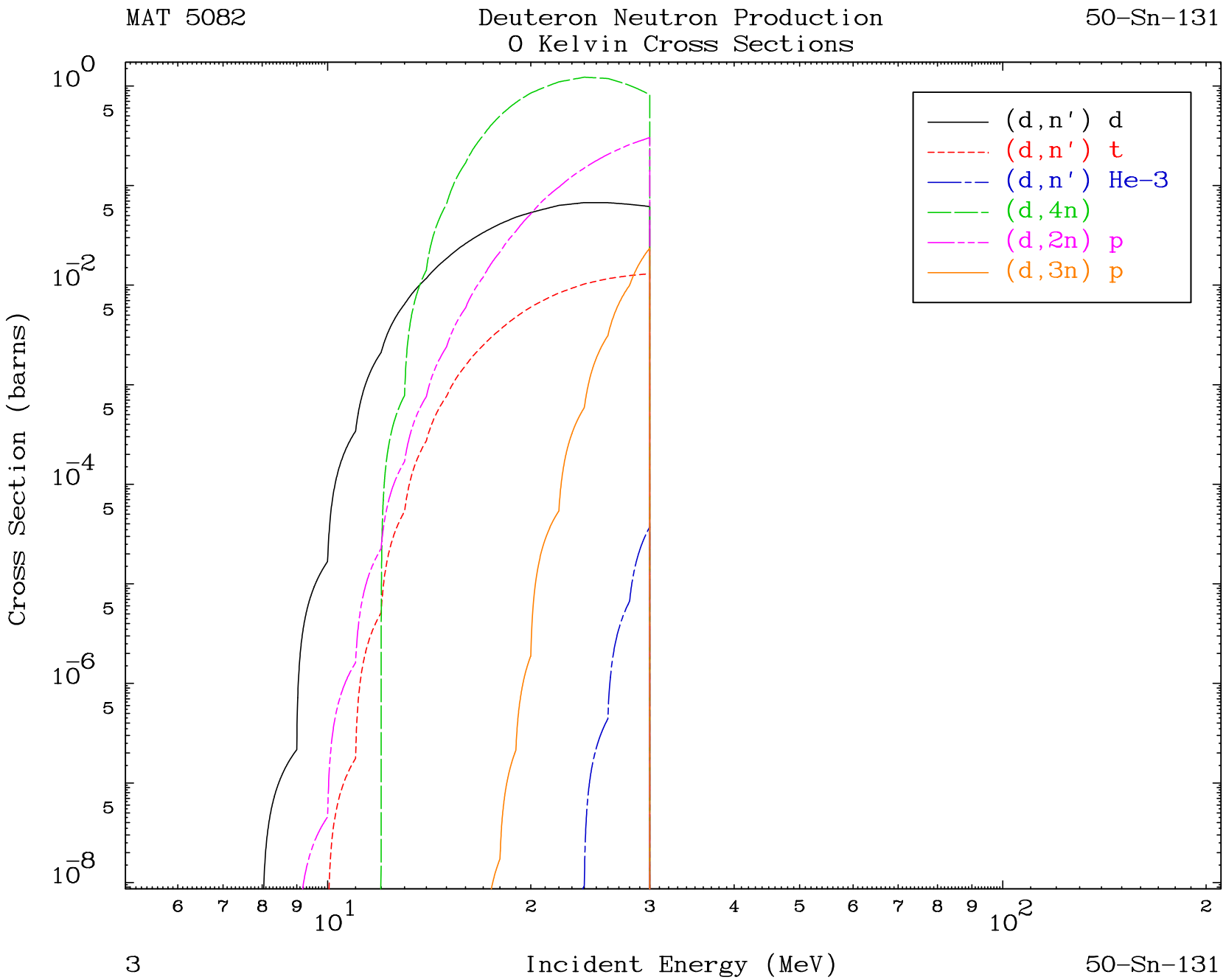
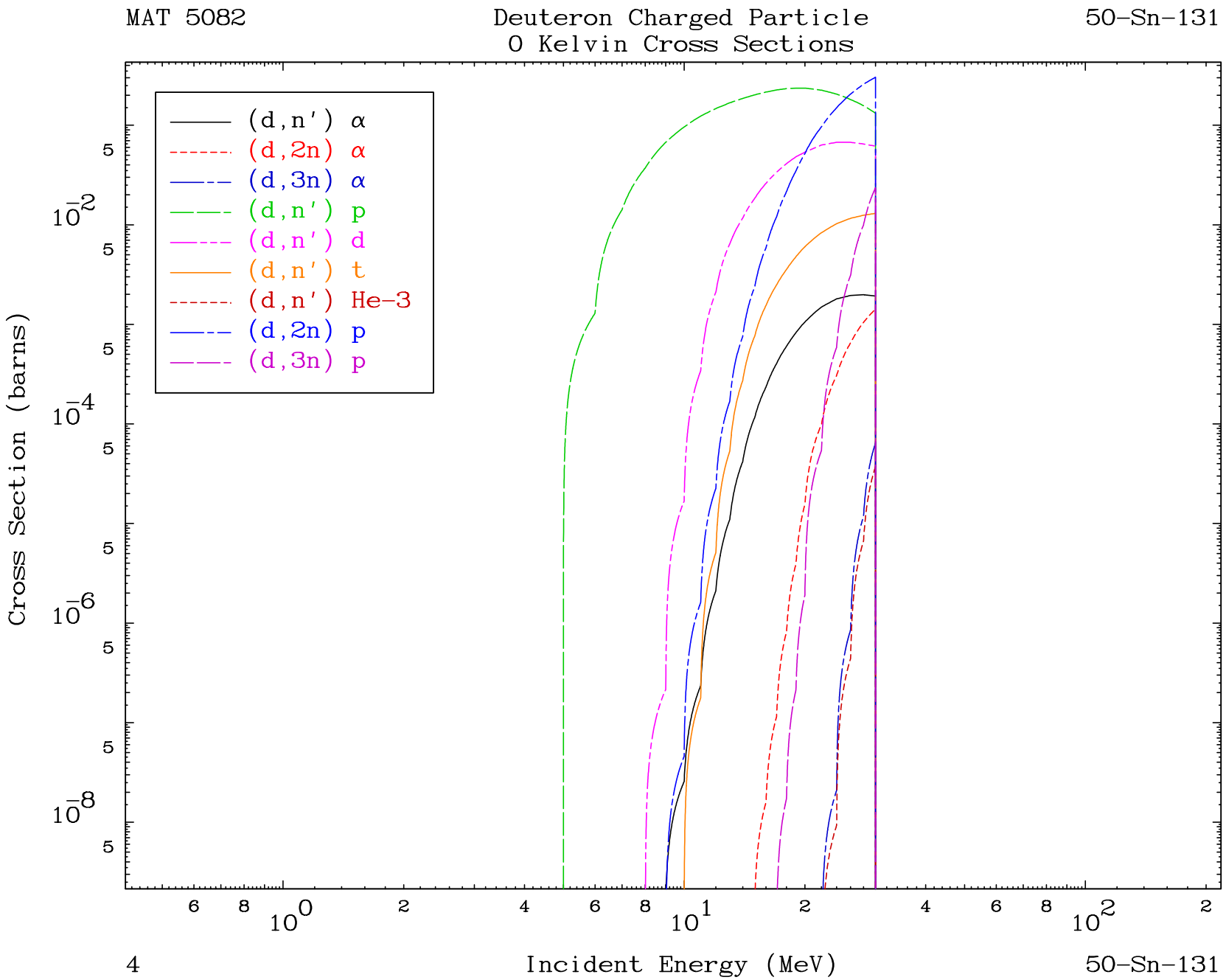
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

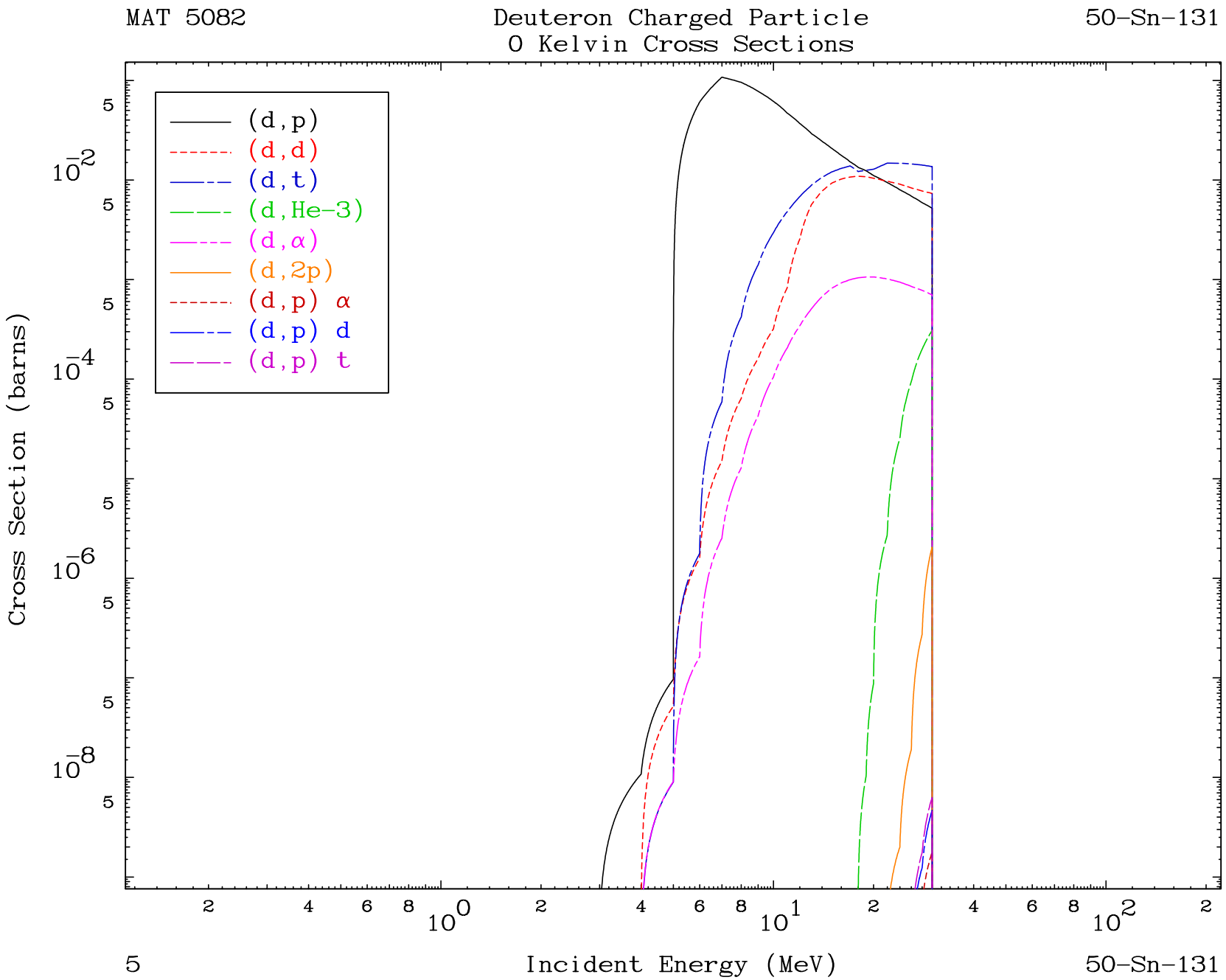
Press Mouse Button to Start

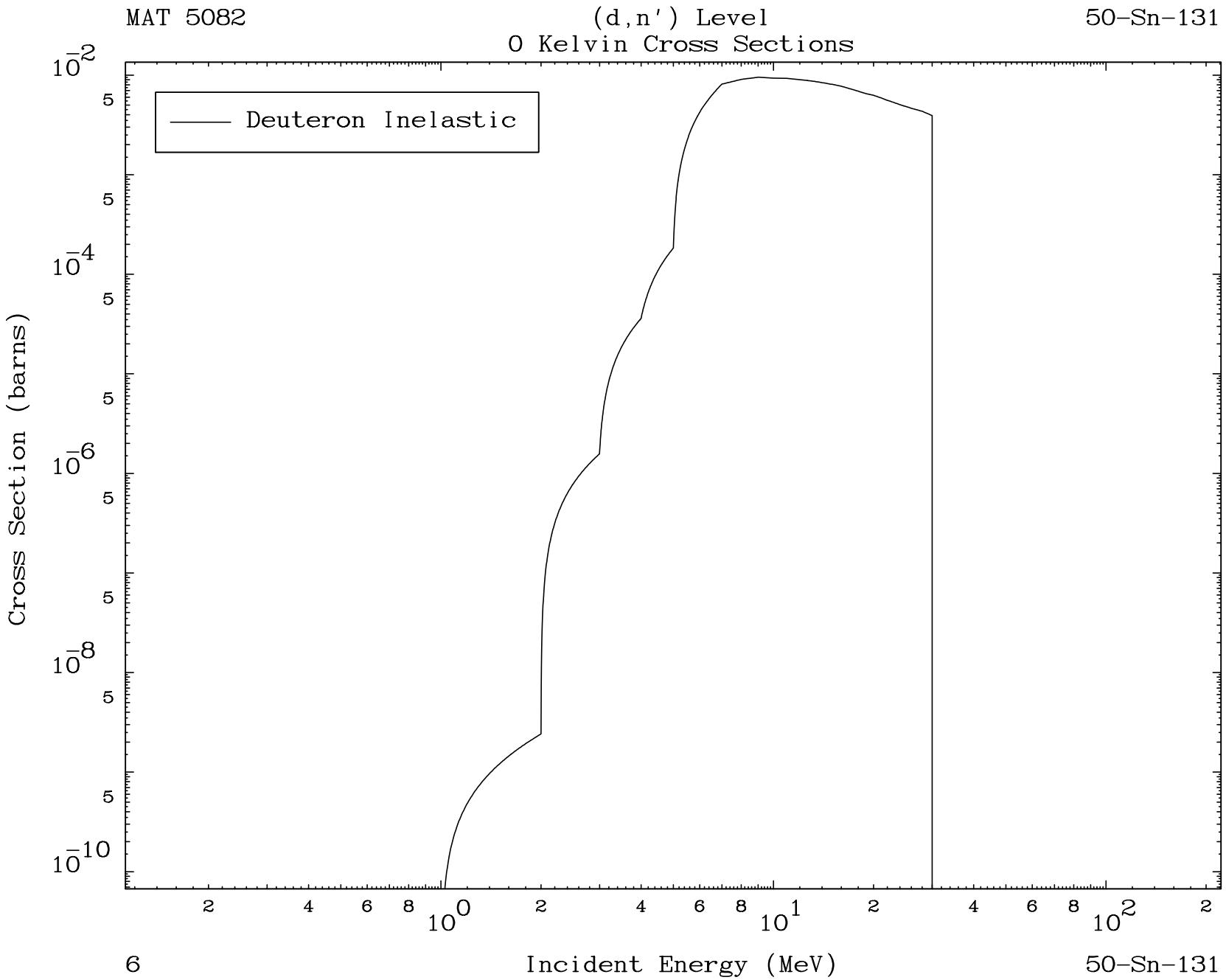

MAT 5082
Deuteron Major
50-Sn-131
0 Kelvin Cross Sections
Deuteron Inelastic
(d,remainder)
(d,γ)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-131
1

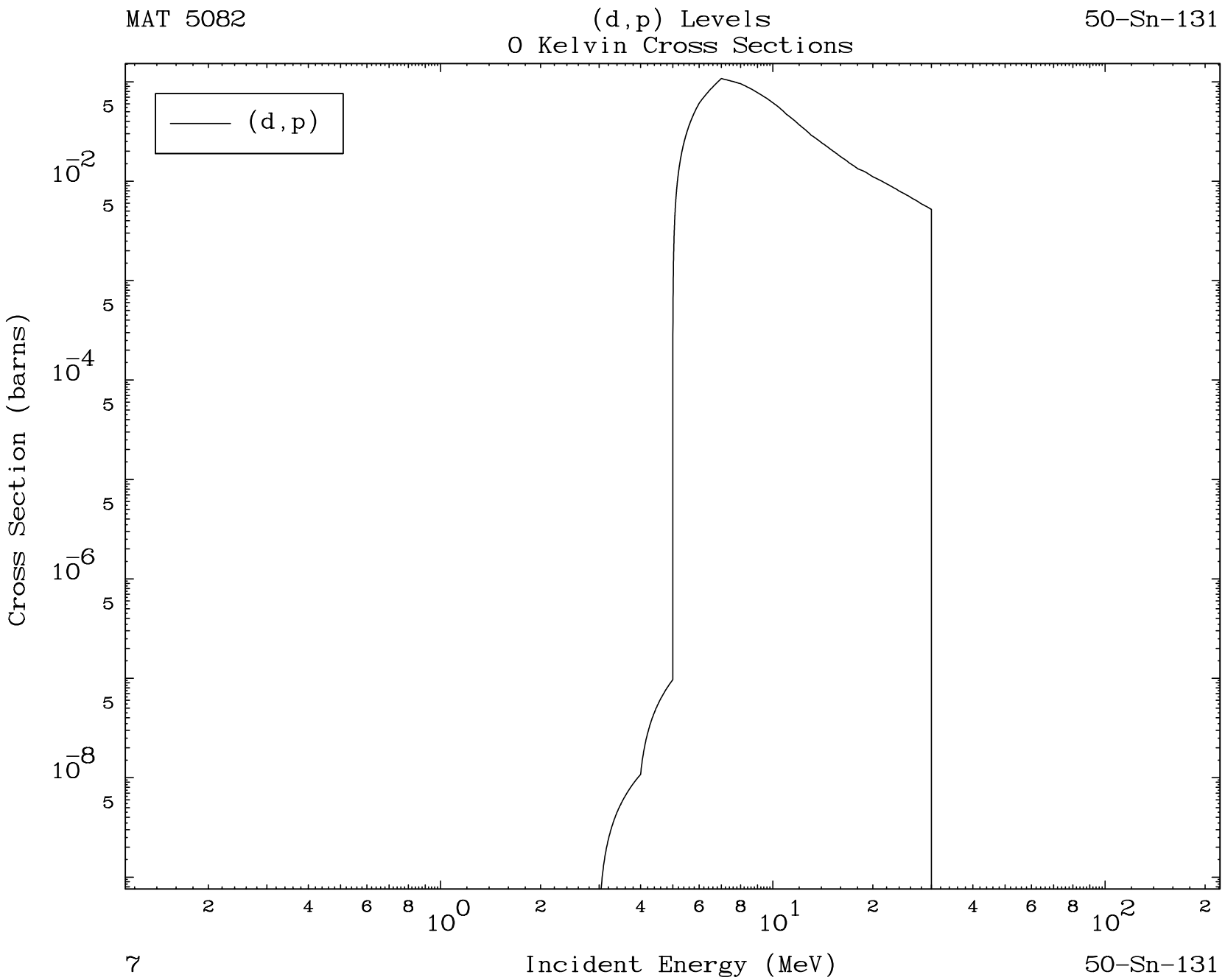

MAT 5082
Deuteron Neutron Production
0 Kelvin Cross Sections
50-Sn-131
(d,2n)
(d,3n)
(d,n') α
(d,2n) α
(d,3n) α
(d,n') p
Cross Section (barns)
Incident Energy (MeV)
50-Sn-131
2

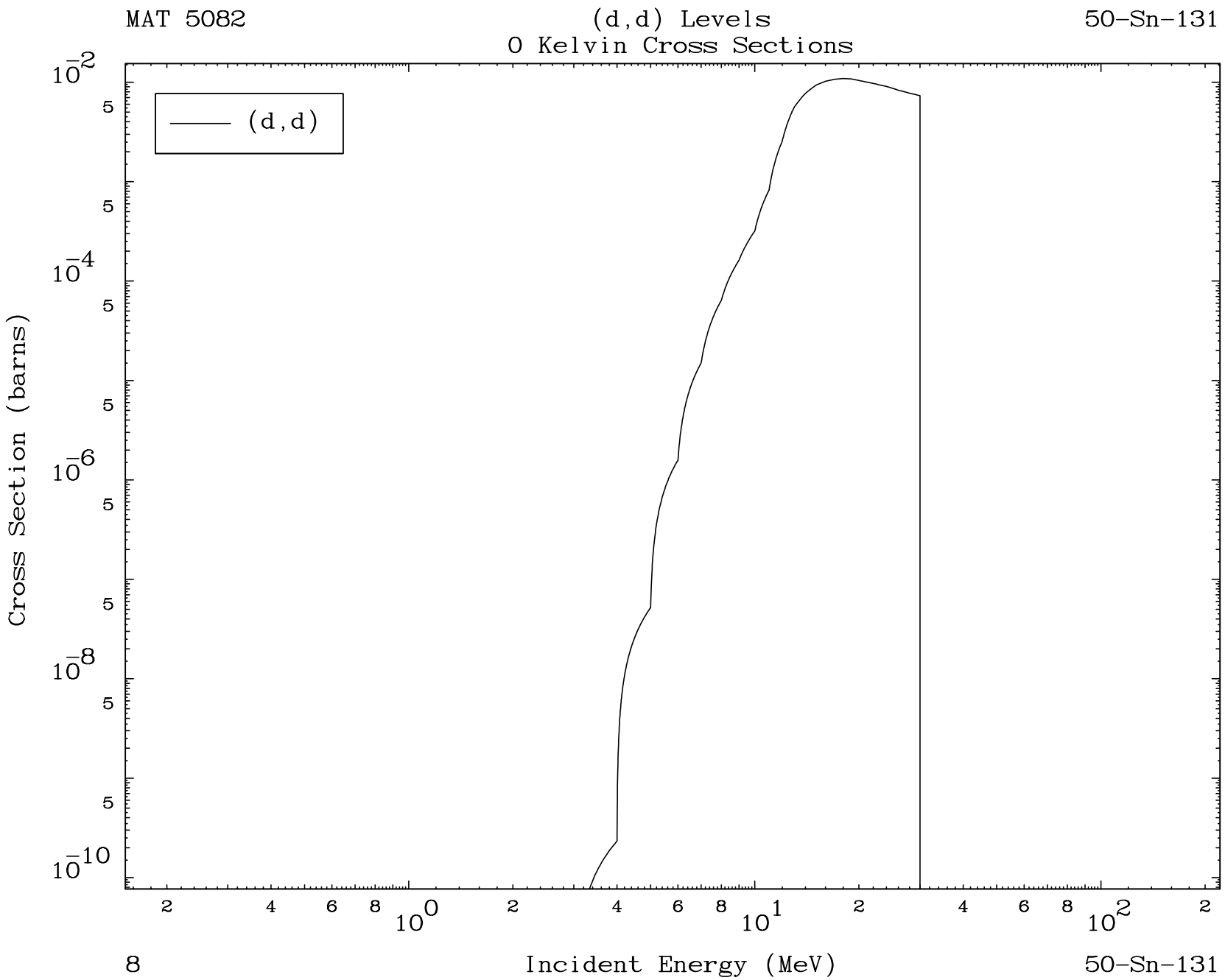

MAT 5082
Deuteron Neutron Production
0 Kelvin Cross Sections
50-Sn-131
(d,n') d
(d,n') t
(d,n') He-3
(d,4n)
(d,2n) p
(d,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
50-Sn-131

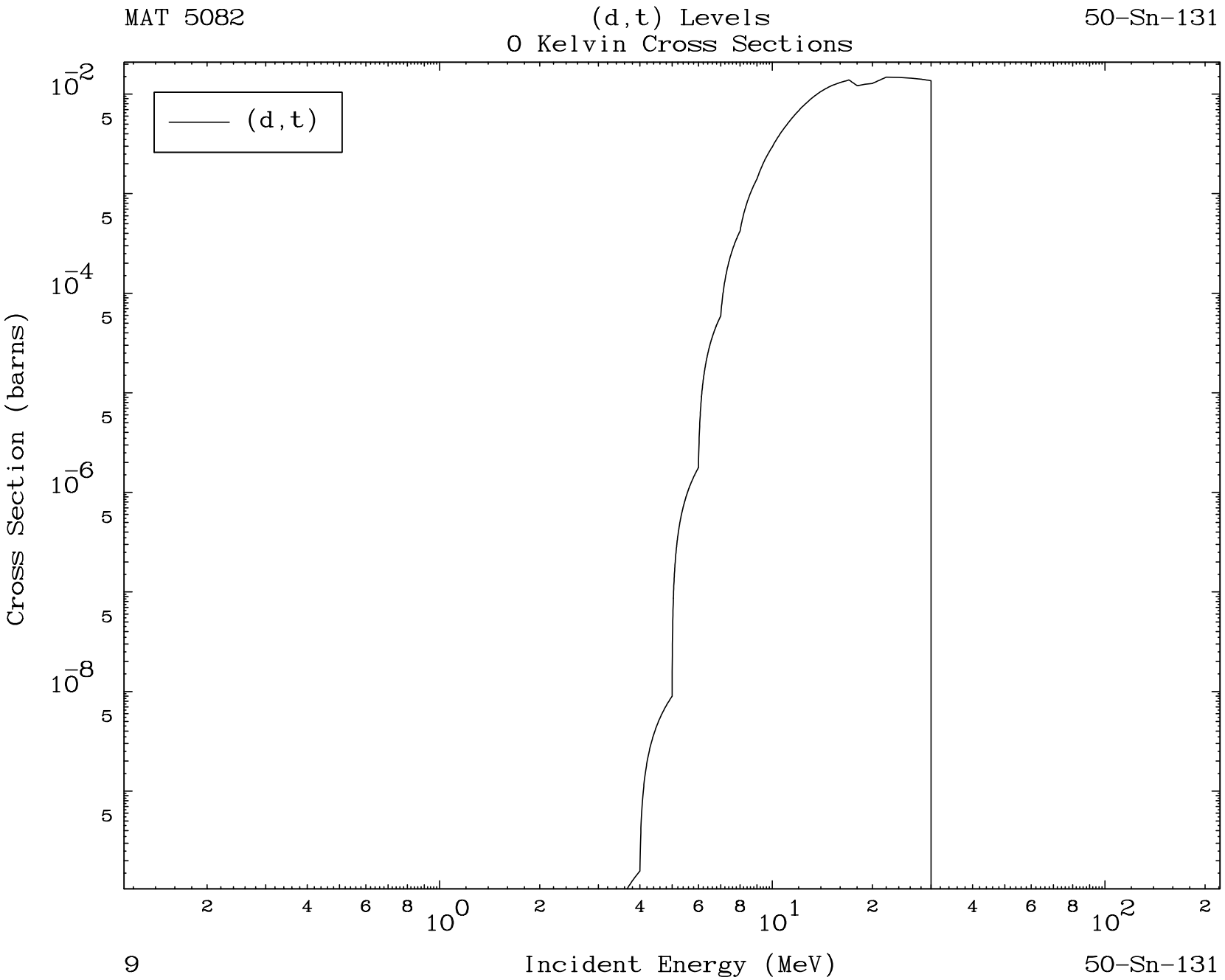

MAT 5082
Deuteron Charged Particle
0 Kelvin Cross Sections
50-Sn-131
(d,n') α
(d,2n) α
(d,3n) α
(d,n') p
(d,n') d
(d,n') t
(d,n') He-3
(d,2n) p
(d,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
50-Sn-131

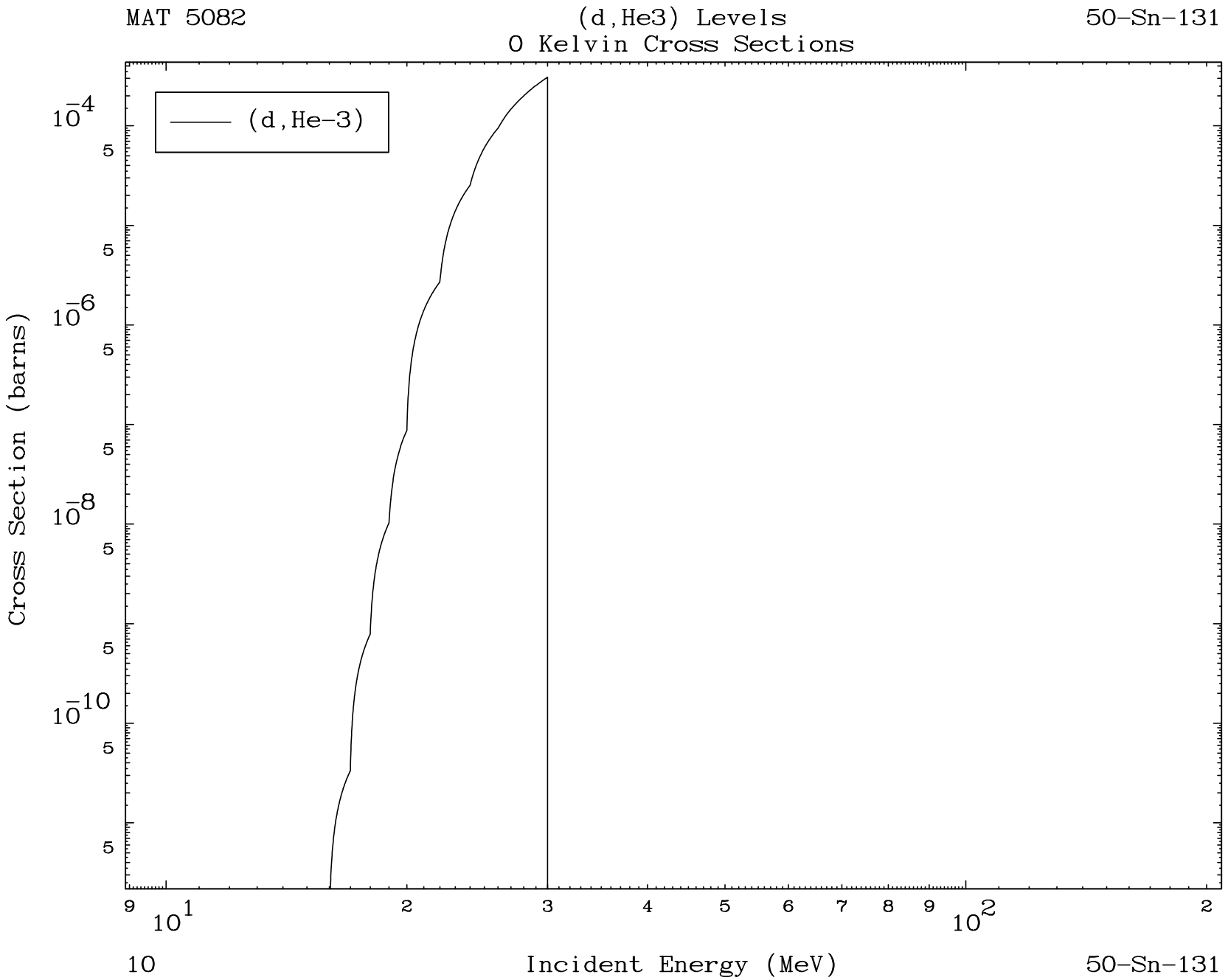

MAT 5082
Deuteron Charged Particle
0 Kelvin Cross Sections
50-Sn-131
(d,p)
(d,d)
(d,t)
(d,He-3)
(d,α)
(d,2p)
(d,p) α
(d,p) d
(d,p) t
Cross Section (barns)
Incident Energy (MeV)
50-Sn-131
5

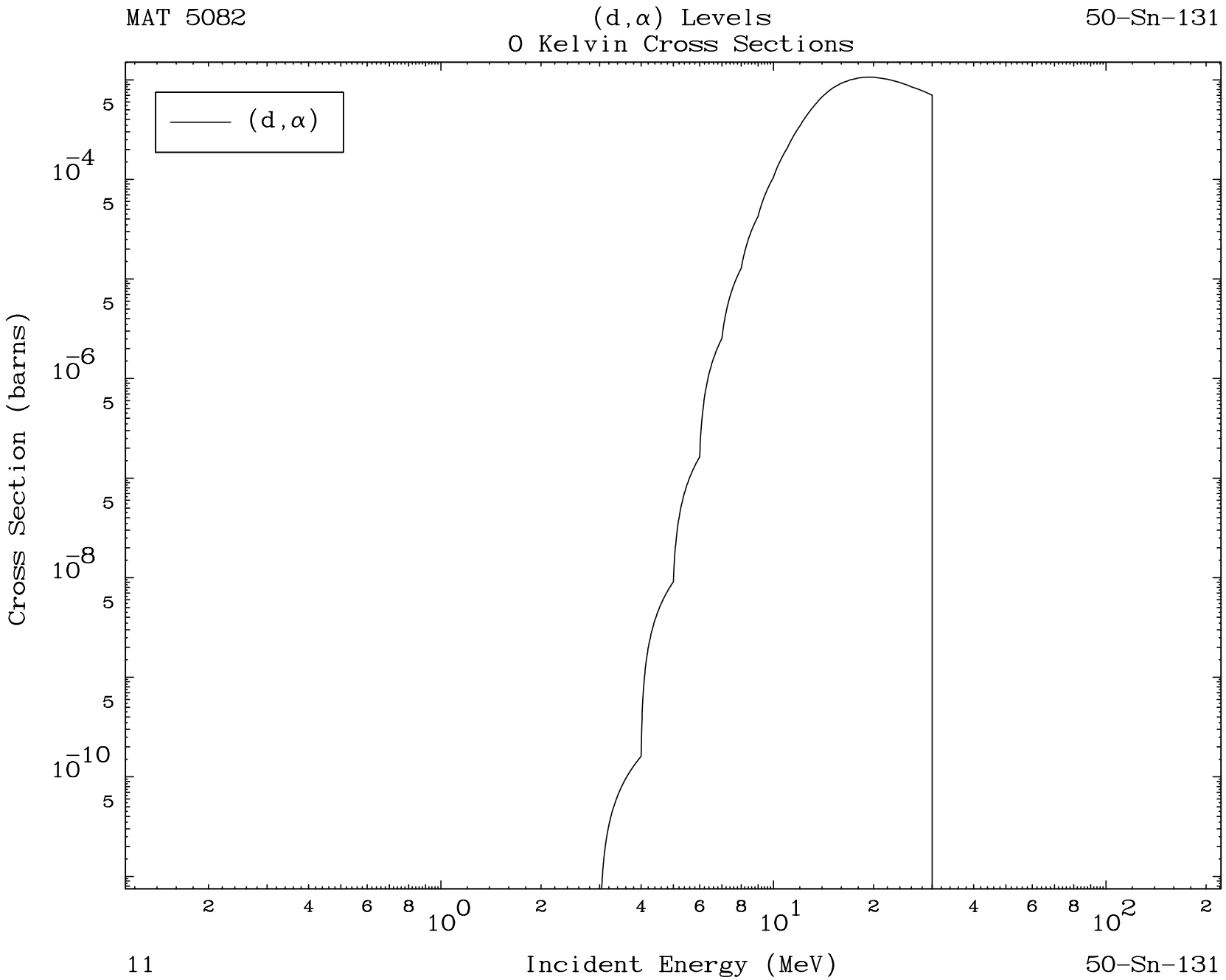

MAT 5082
(d,n') Level
50-Sn-131
0 Kelvin Cross Sections
Deuteron Inelastic
Cross Section (barns)
Incident Energy (MeV)
6
50-Sn-131

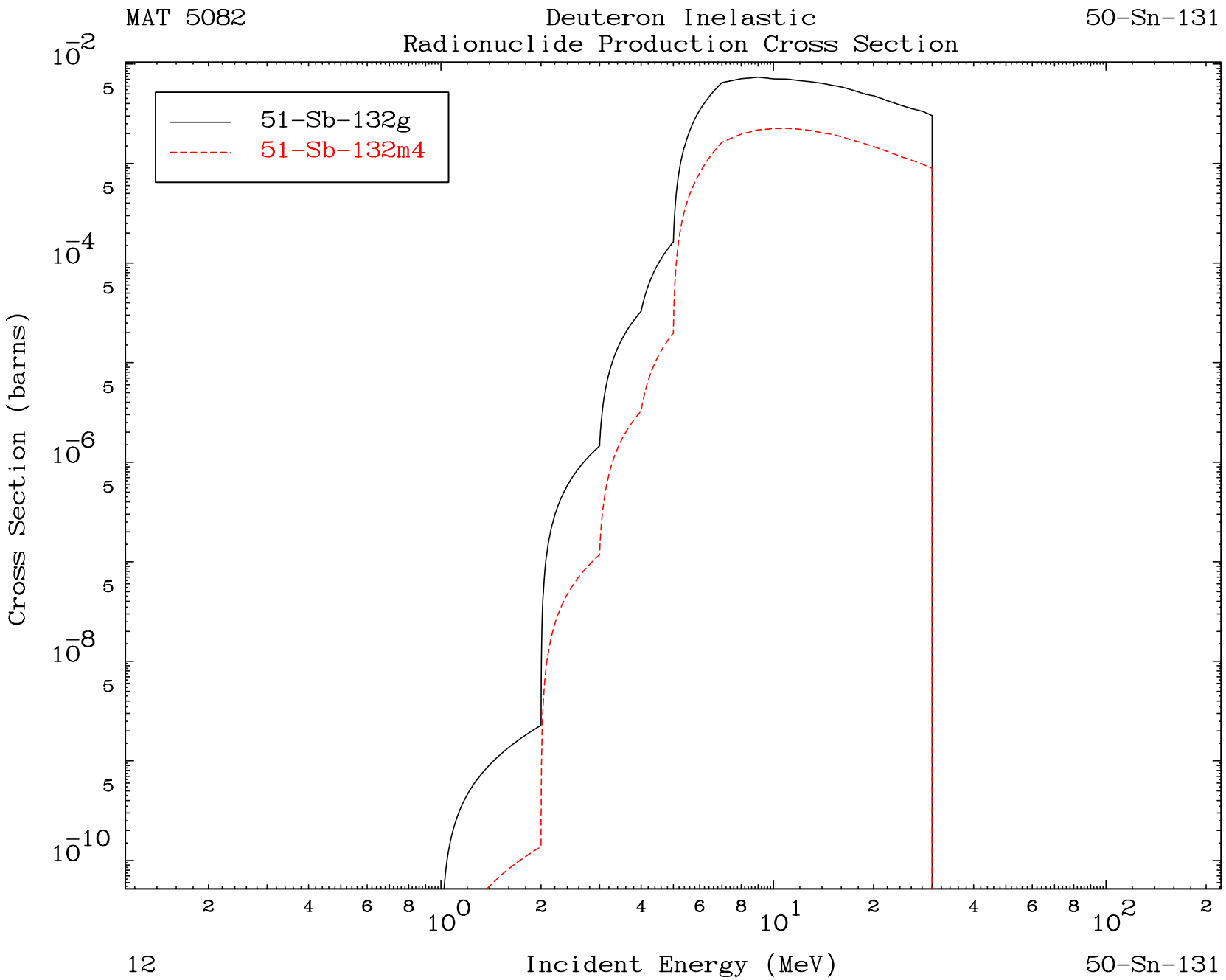

MAT 5082
(d,p) Levels
50-Sn-131
0 Kelvin Cross Sections
(d,p)
Cross Section (barns)
Incident Energy (MeV)
7
50-Sn-131

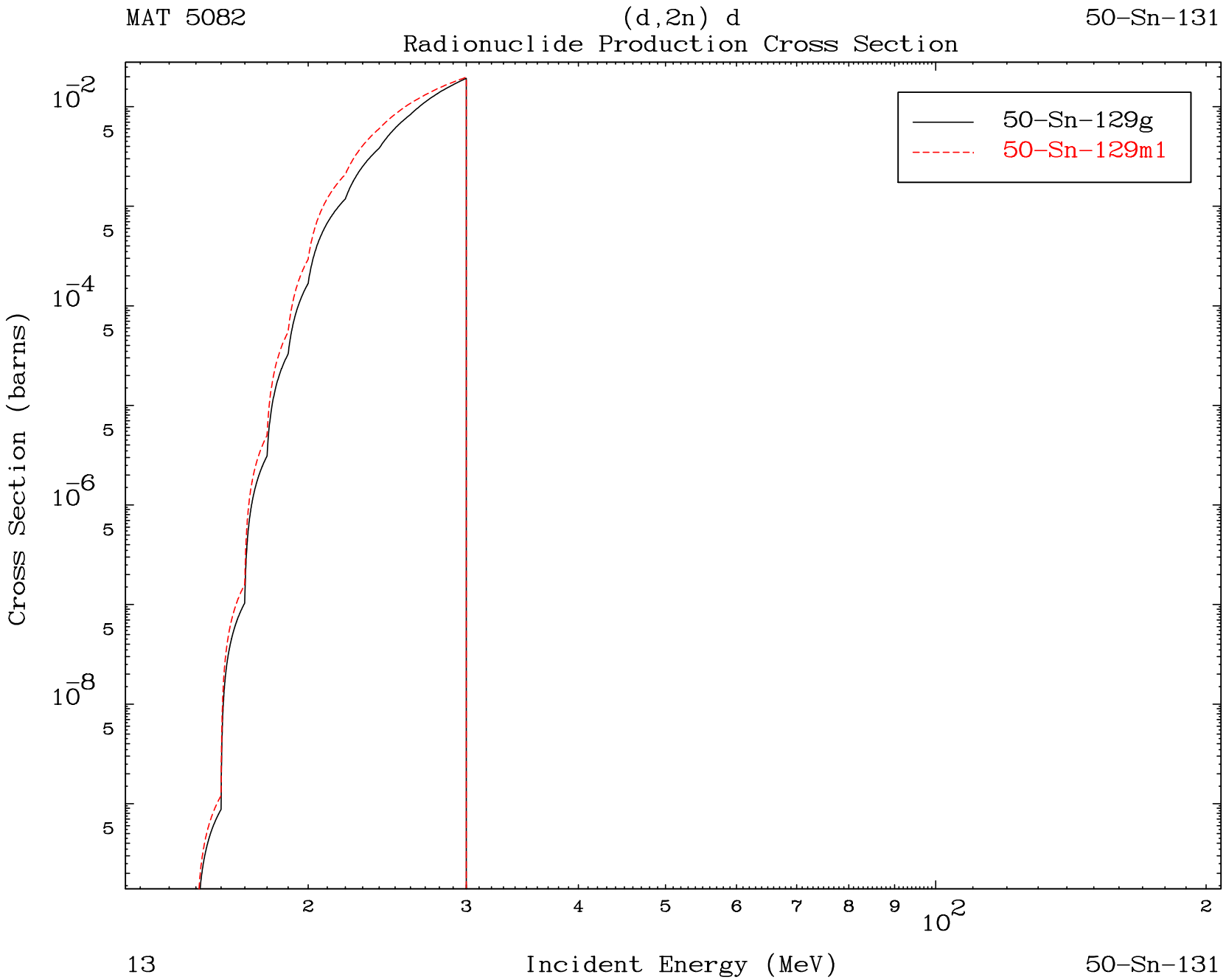

MAT 5082
(d,d) Levels
50-Sn-131
0 Kelvin Cross Sections
(d,d)
Cross Section (barns)
Incident Energy (MeV)
8
50-Sn-131

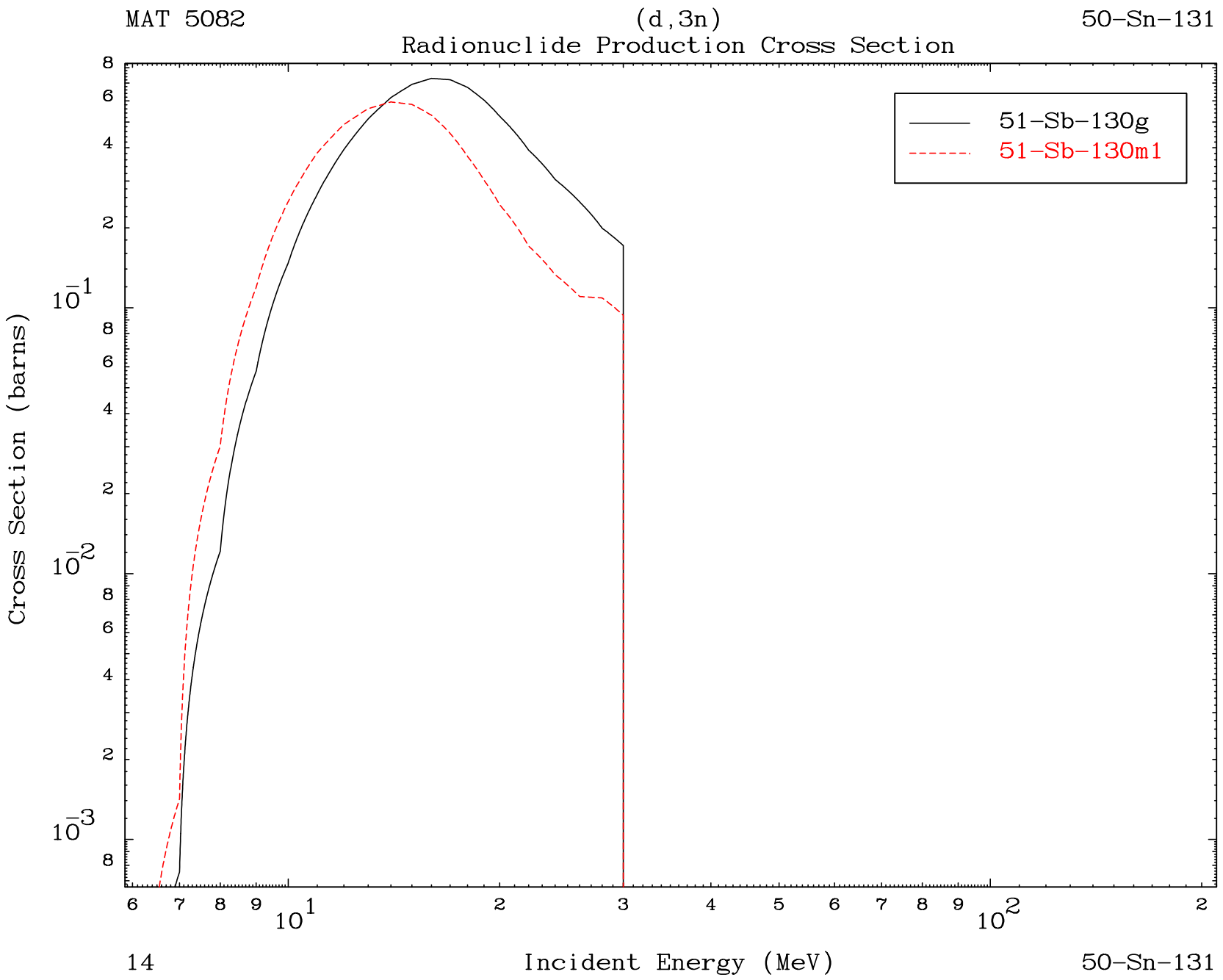

MAT 5082
(d,t) Levels
50-Sn-131
0 Kelvin Cross Sections
(d,t)
Cross Section (barns)
Incident Energy (MeV)
9
50-Sn-131

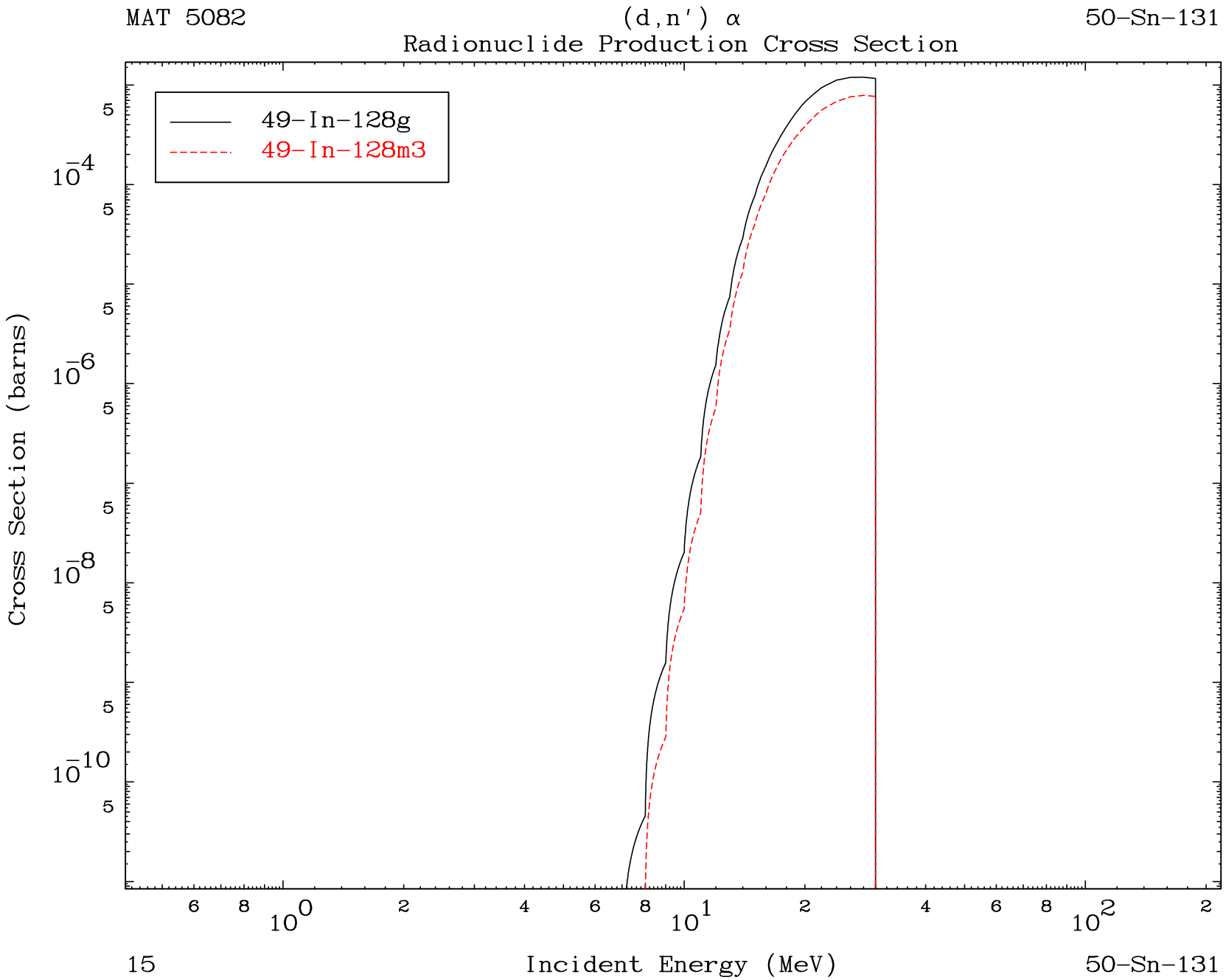

MAT 5082
(d,He3) Levels
50-Sn-131
0 Kelvin Cross Sections
(d,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10
10^1
10^2
50-Sn-131

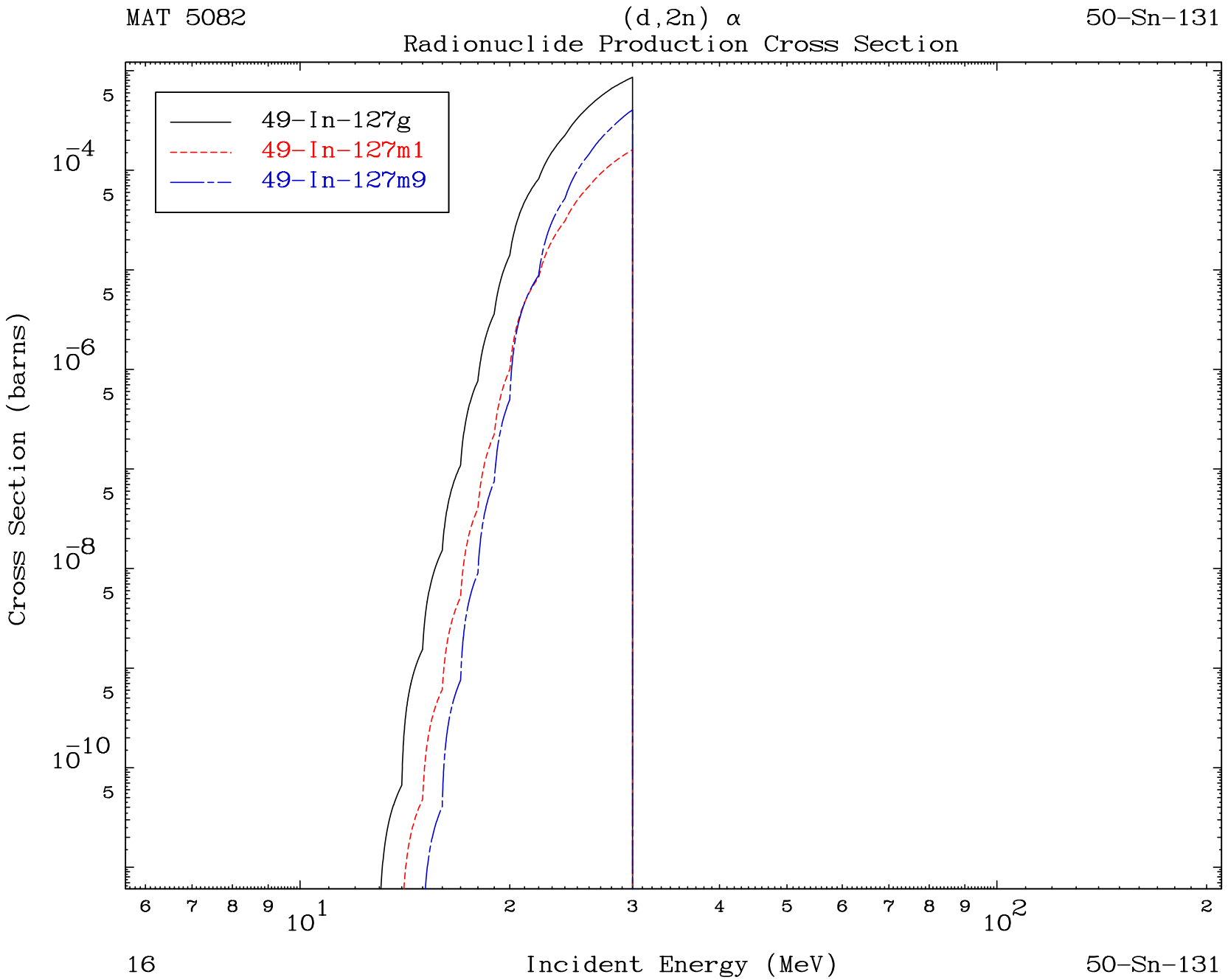

MAT 5082
(d,α) Levels
50-Sn-131
0 Kelvin Cross Sections
(d,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
11
50-Sn-131

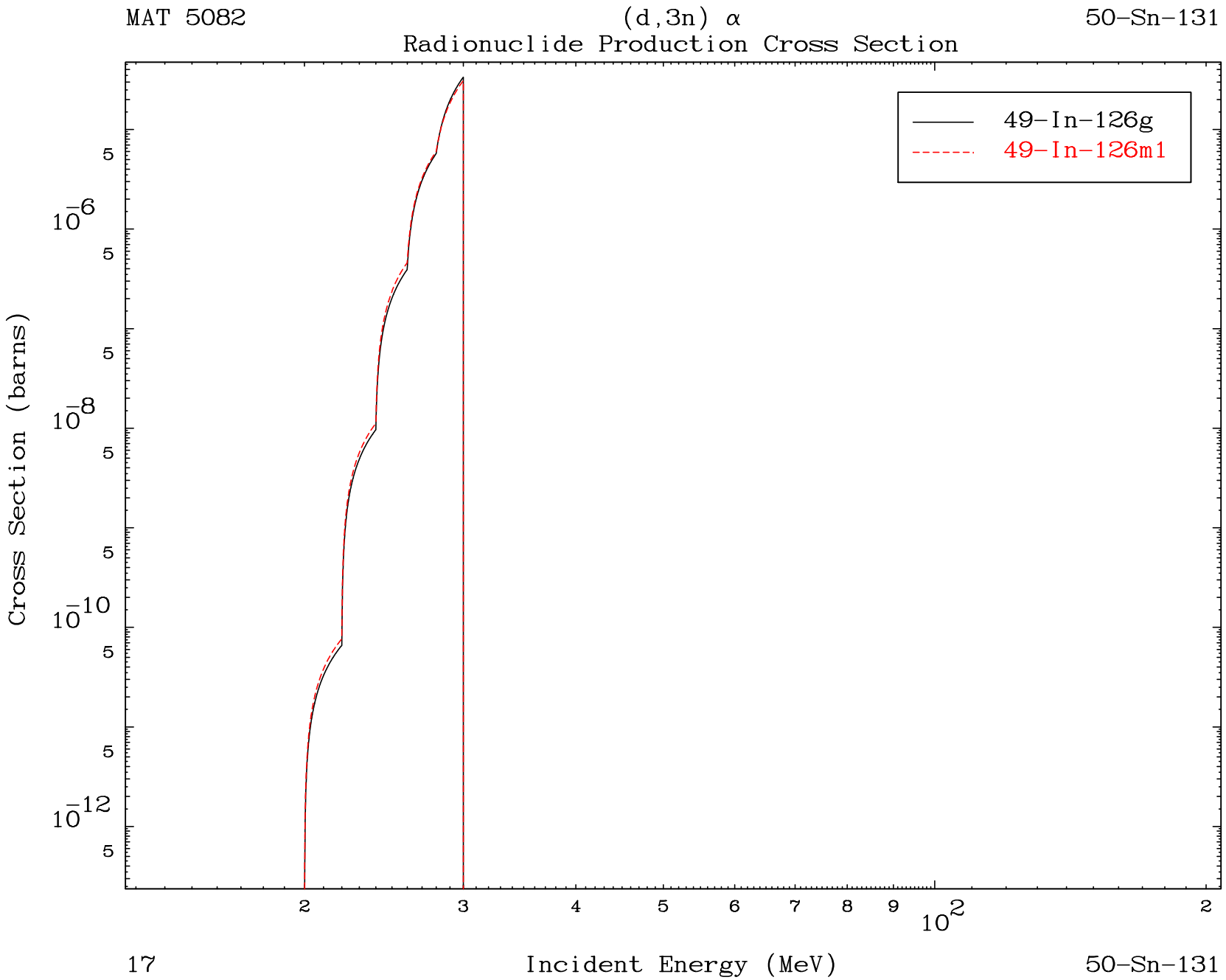

MAT 5082
Deuteron Inelastic
50-Sn-131
Radionuclide Production Cross Section
51-Sb-132g
51-Sb-132m4
Cross Section (barns)
Incident Energy (MeV)
12
50-Sn-131

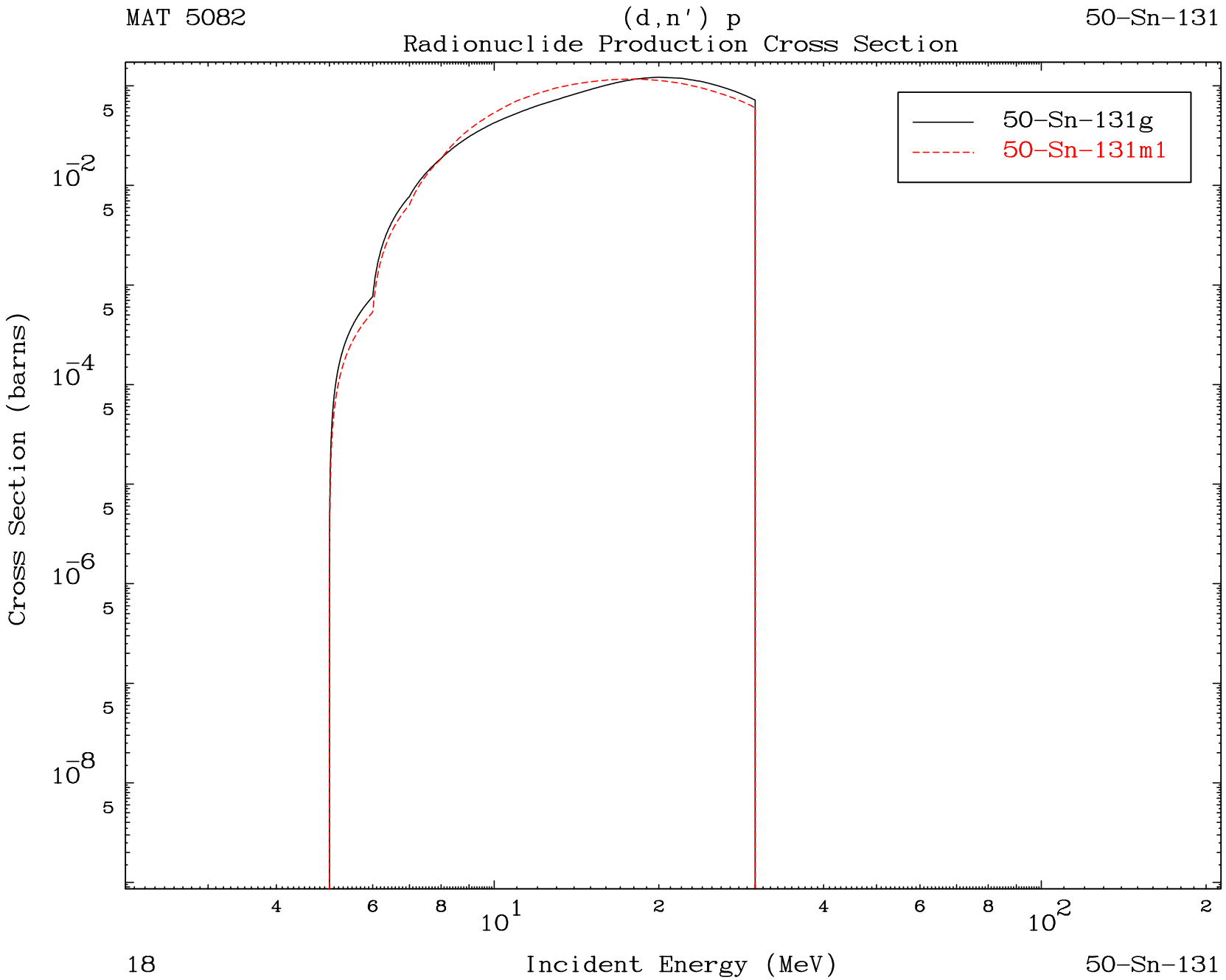

MAT 5082
(d,2n) d
50-Sn-131
Radionuclide Production Cross Section
50-Sn-129g
50-Sn-129m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
50-Sn-131

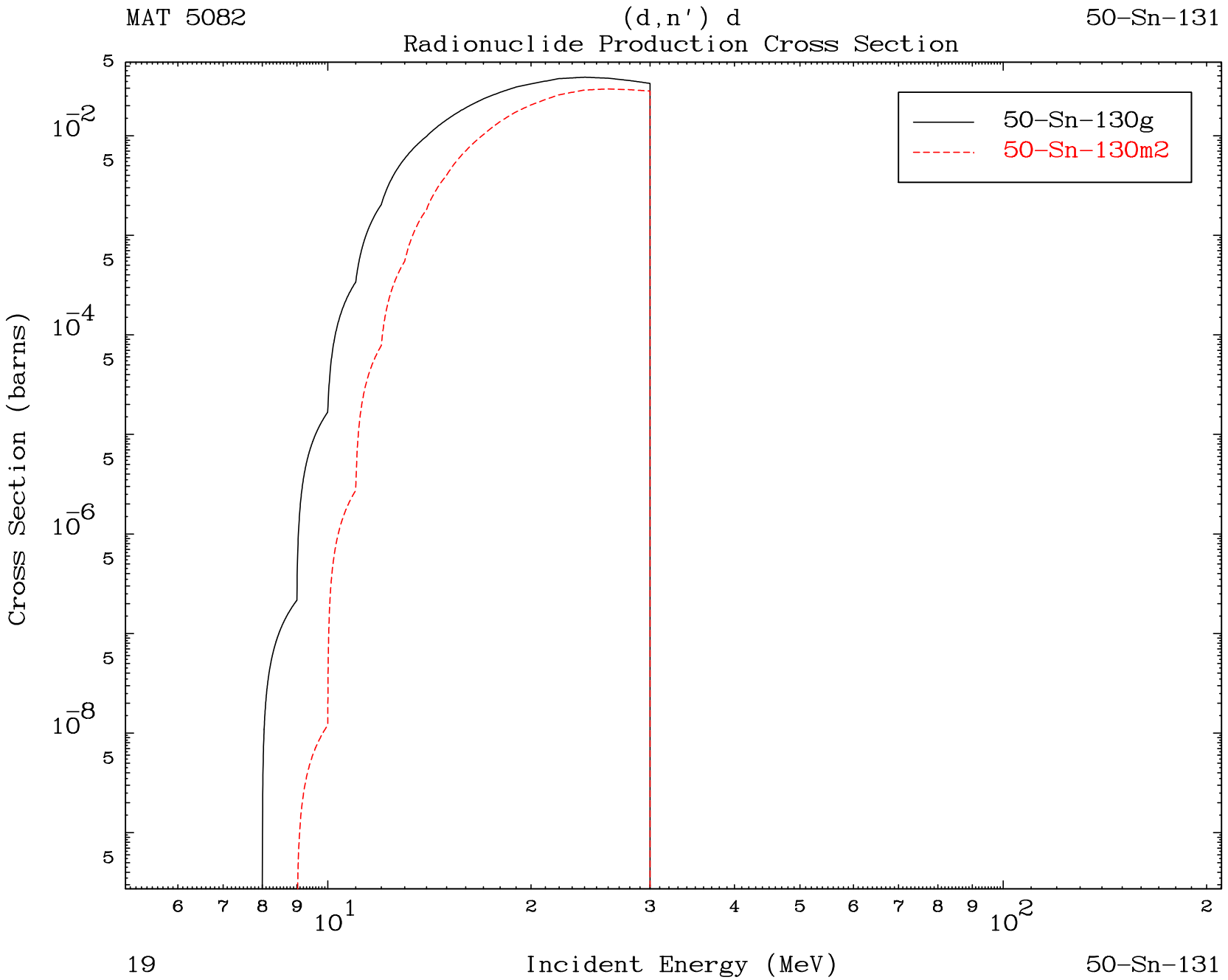

MAT 5082
(d,3n)
50-Sn-131
Radionuclide Production Cross Section
51-Sb-130g
51-Sb-130m1
Cross Section (barns)
Incident Energy (MeV)
14
50-Sn-131

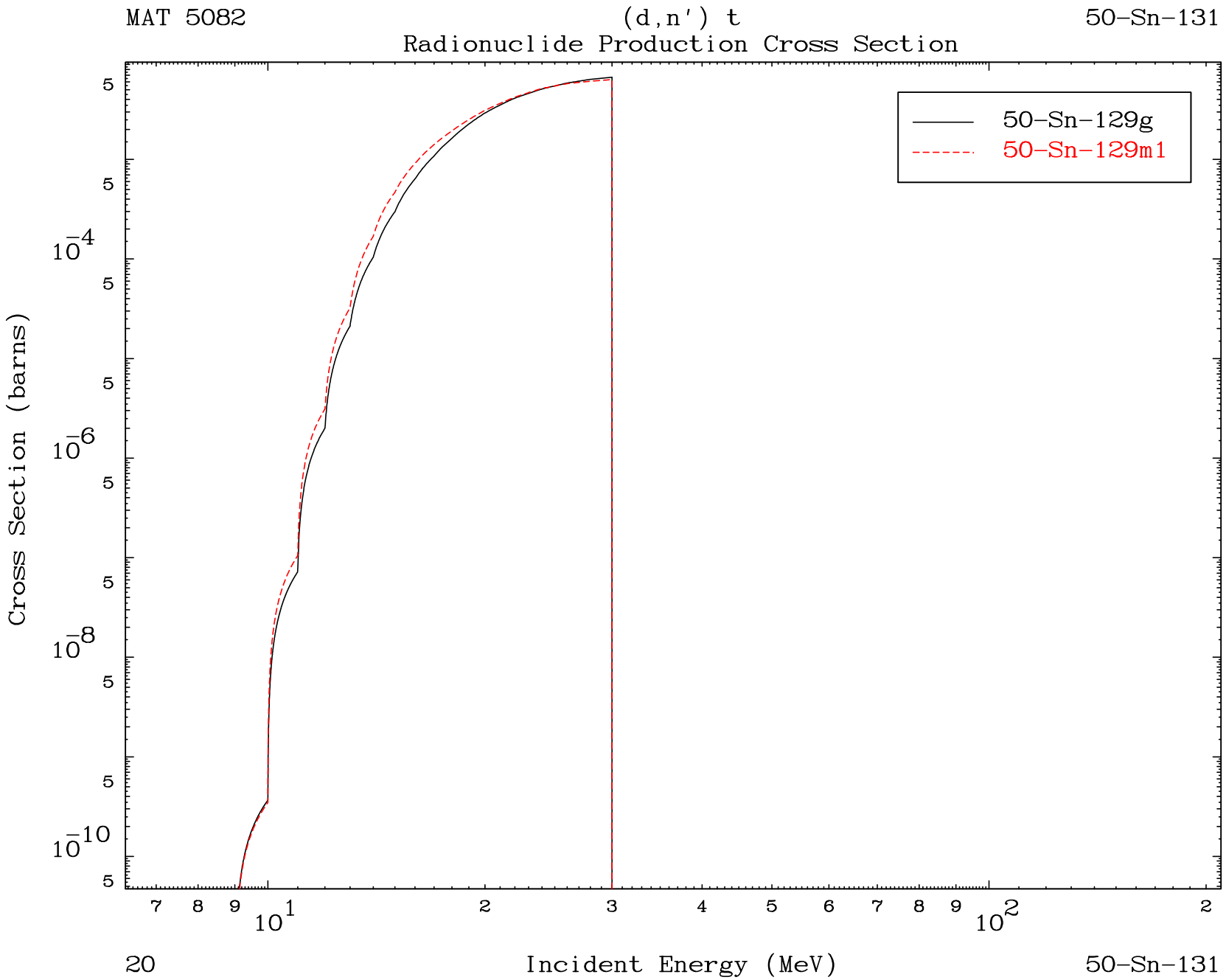

MAT 5082
(d,n') α
50-Sn-131
Radionuclide Production Cross Section
49-In-128g
49-In-128m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
15
50-Sn-131

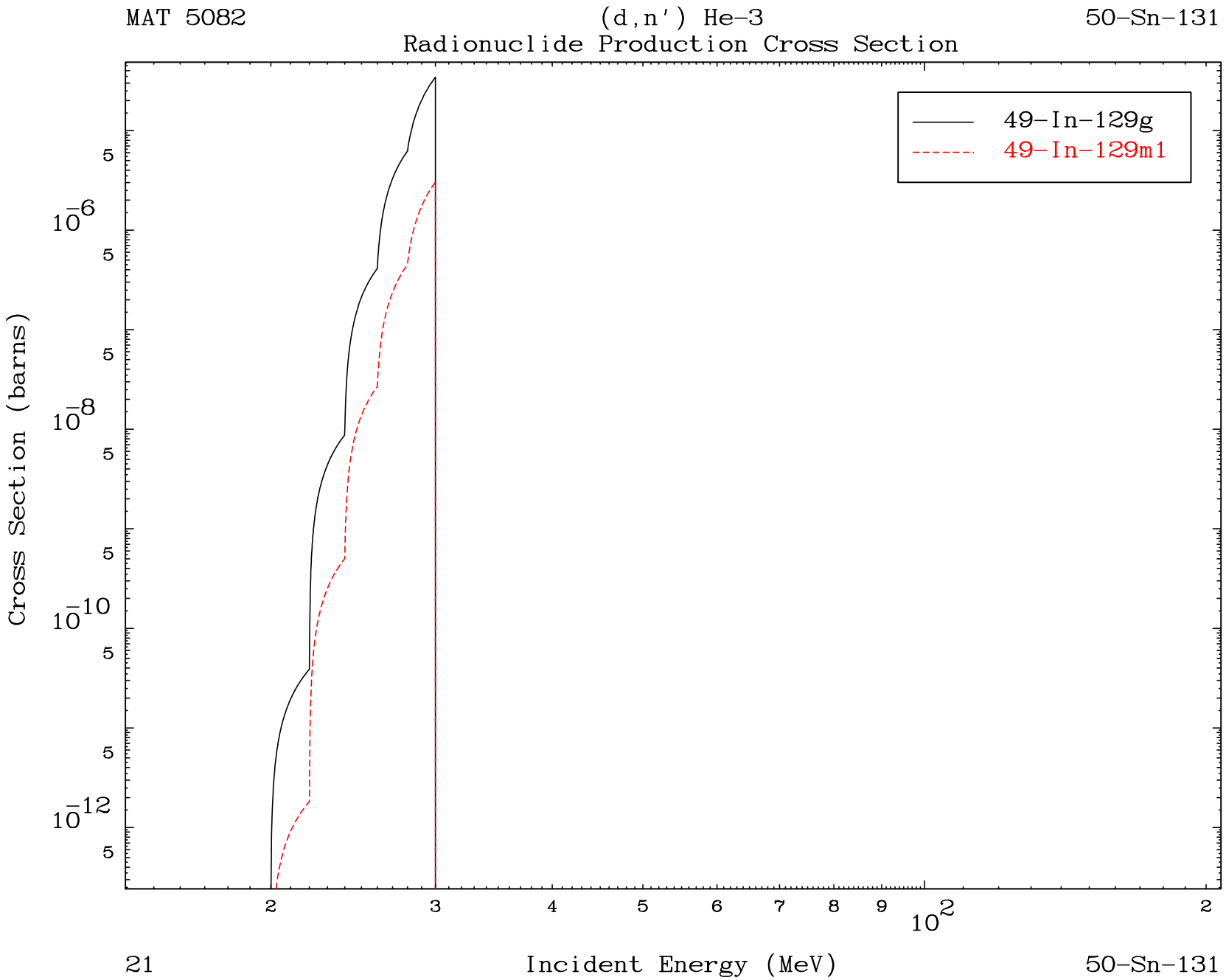

MAT 5082
(d,2n) α
50-Sn-131
Radionuclide Production Cross Section
49-In-127g
49-In-127m1
49-In-127m9
Cross Section (barns)
Incident Energy (MeV)
16
50-Sn-131

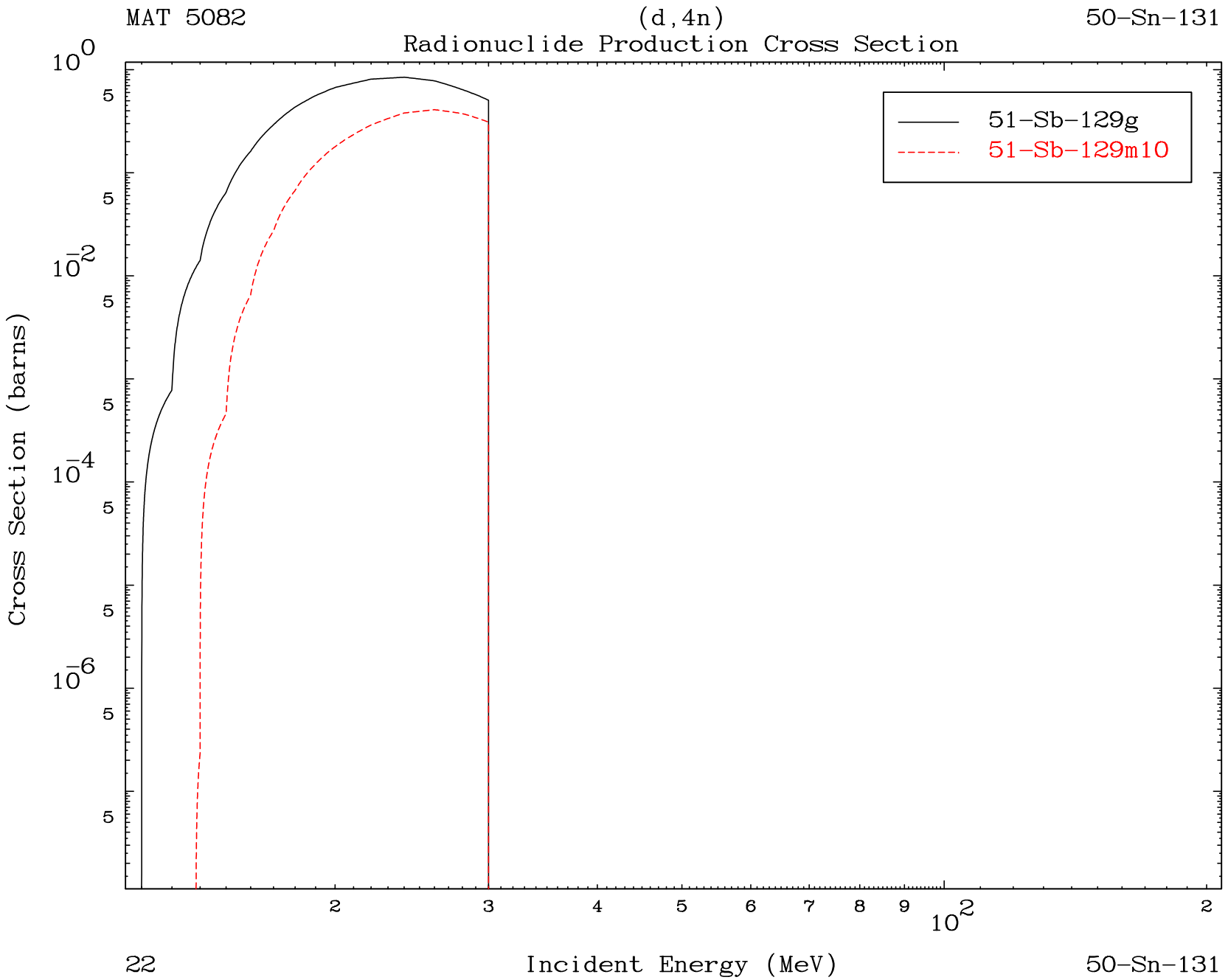

MAT 5082
(d,3n) α
50-Sn-131
Radionuclide Production Cross Section
49-In-126g
49-In-126m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
6
7
8
9
10 2
Incident Energy (MeV)
17
50-Sn-131

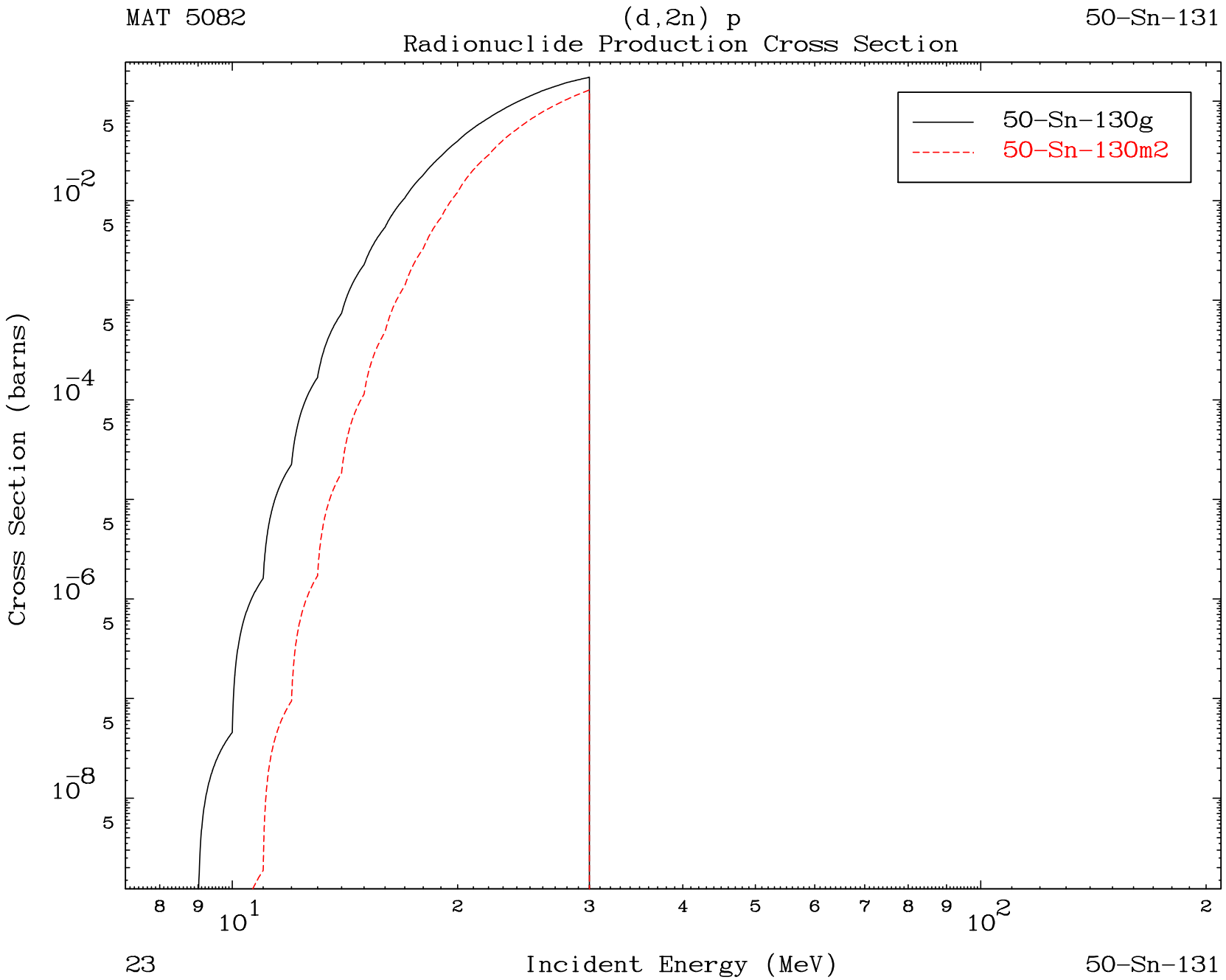

MAT 5082
(d,n') p
50-Sn-131
Radionuclide Production Cross Section
50-Sn-131g
50-Sn-131m1
Cross Section (barns)
Incident Energy (MeV)
18
50-Sn-131

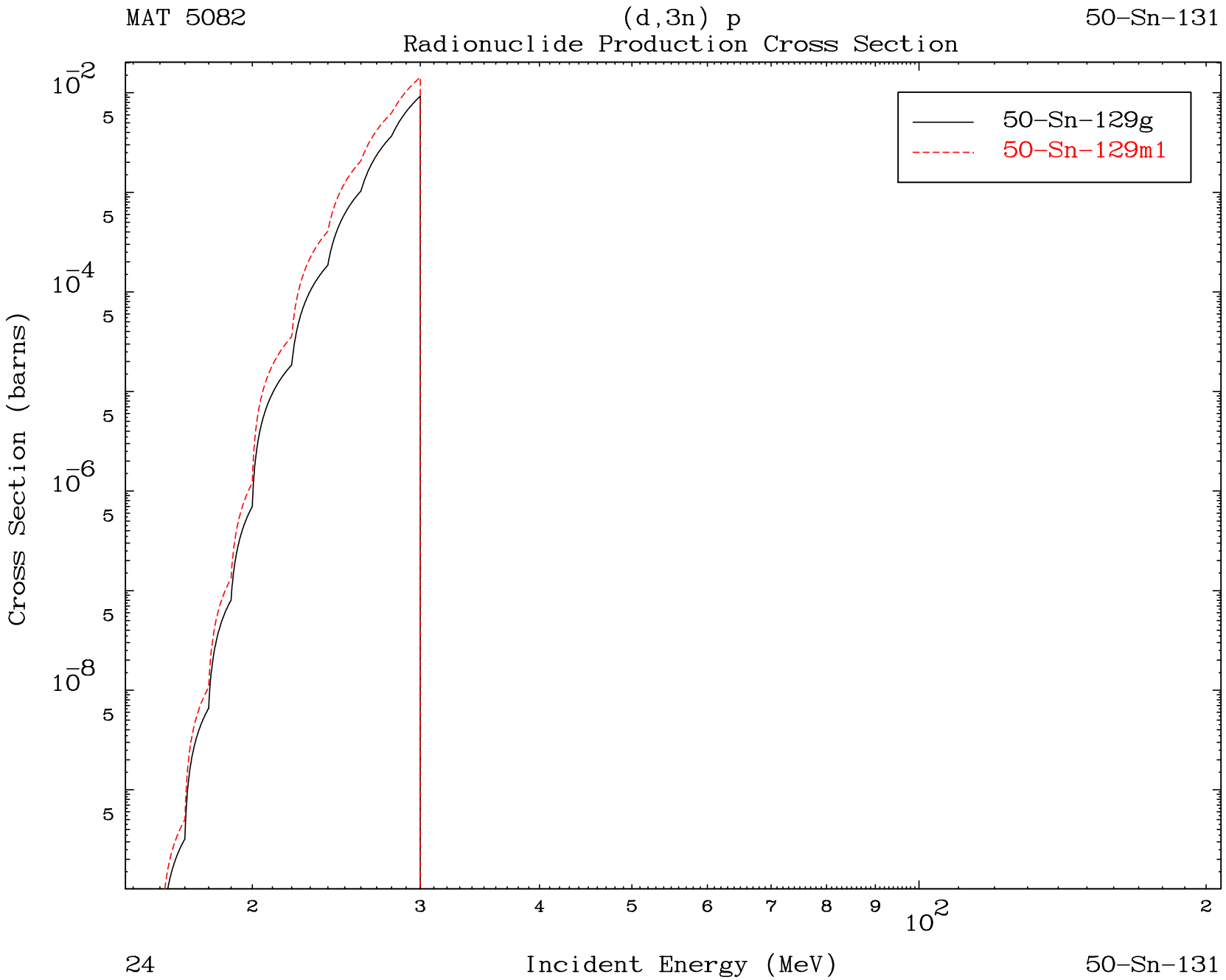

MAT 5082
(d,n') d
50-Sn-131
Radionuclide Production Cross Section
50-Sn-130g
50-Sn-130m2
Cross Section (barns)
Incident Energy (MeV)
19
50-Sn-131

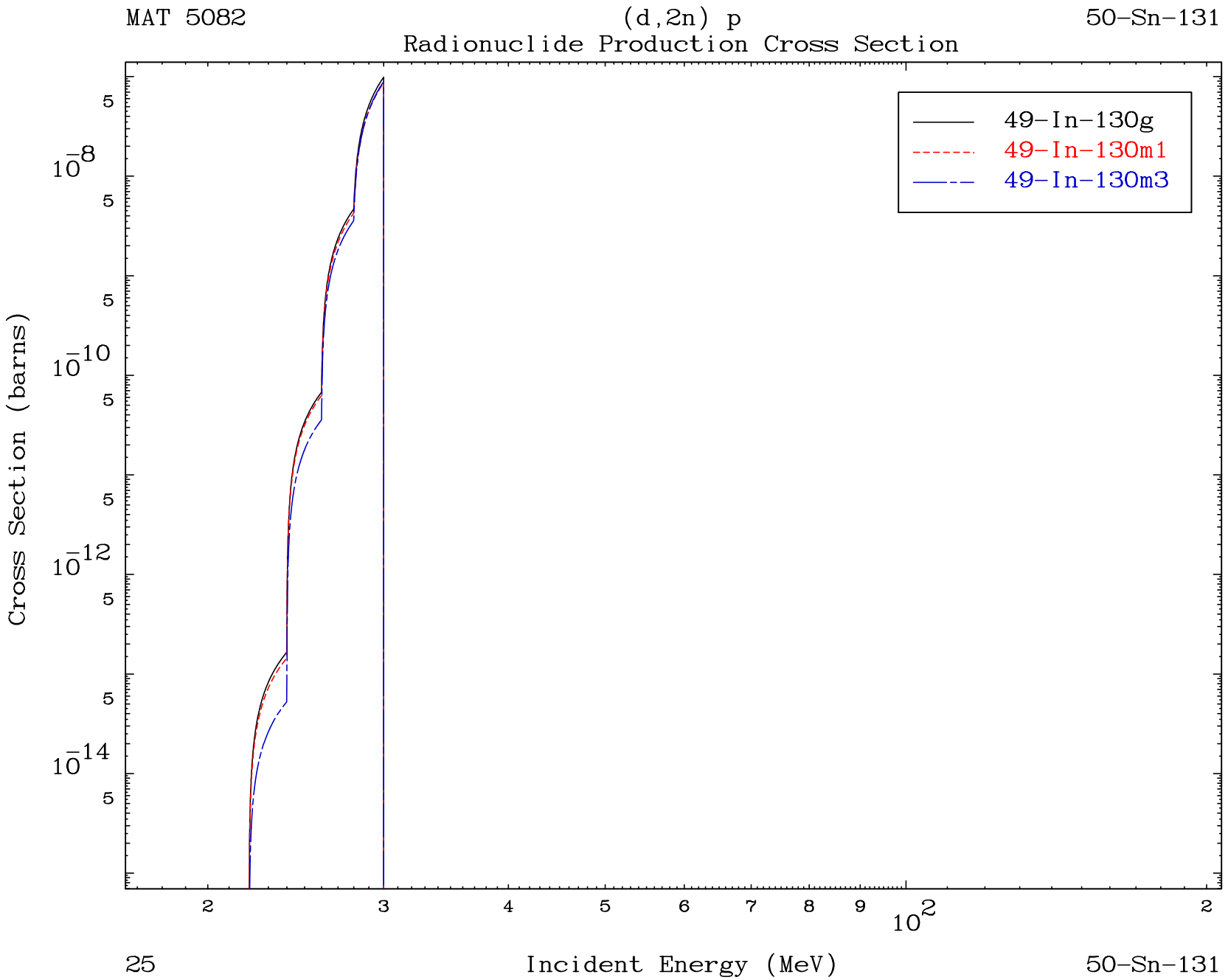

MAT 5082
(d,n') t
50-Sn-131
Radionuclide Production Cross Section
50-Sn-129g
50-Sn-129m1
Cross Section (barns)
Incident Energy (MeV)
20
50-Sn-131

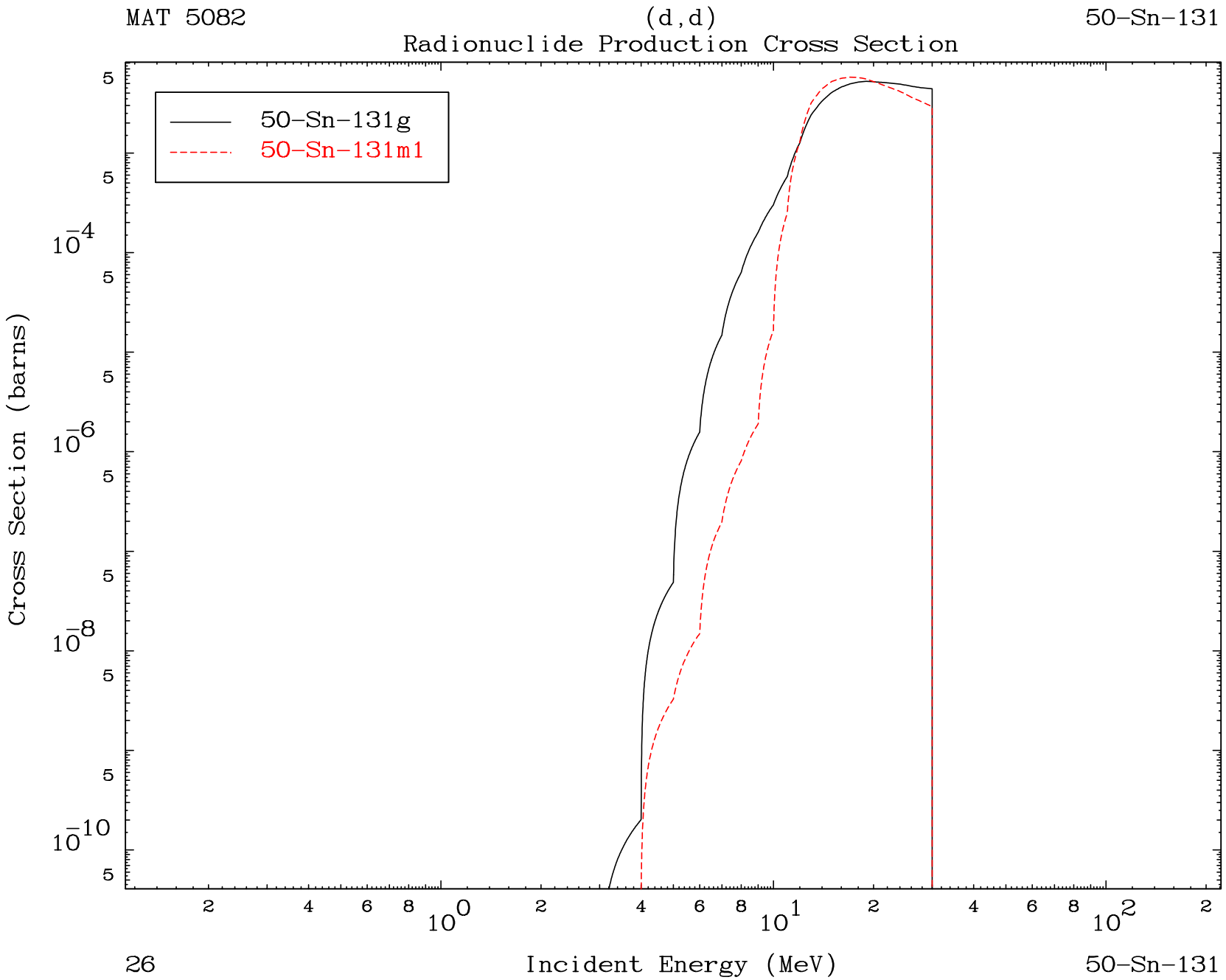

MAT 5082
(d,n') He-3
50-Sn-131
Radionuclide Production Cross Section
49-In-129g
49-In-129m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
50-Sn-131

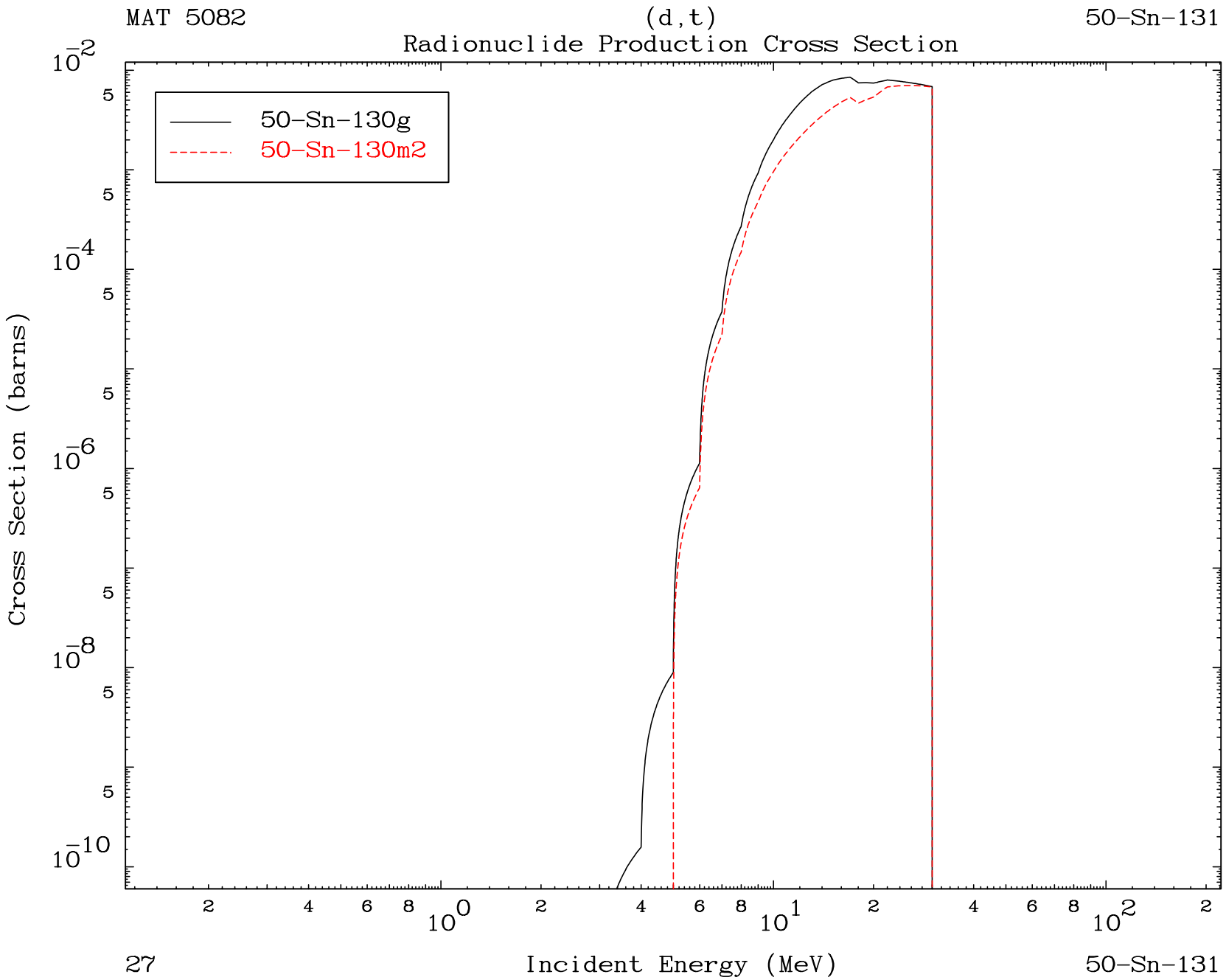

MAT 5082
(d,4n)
50-Sn-131
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m10
Cross Section (barns)
Incident Energy (MeV)
22
50-Sn-131

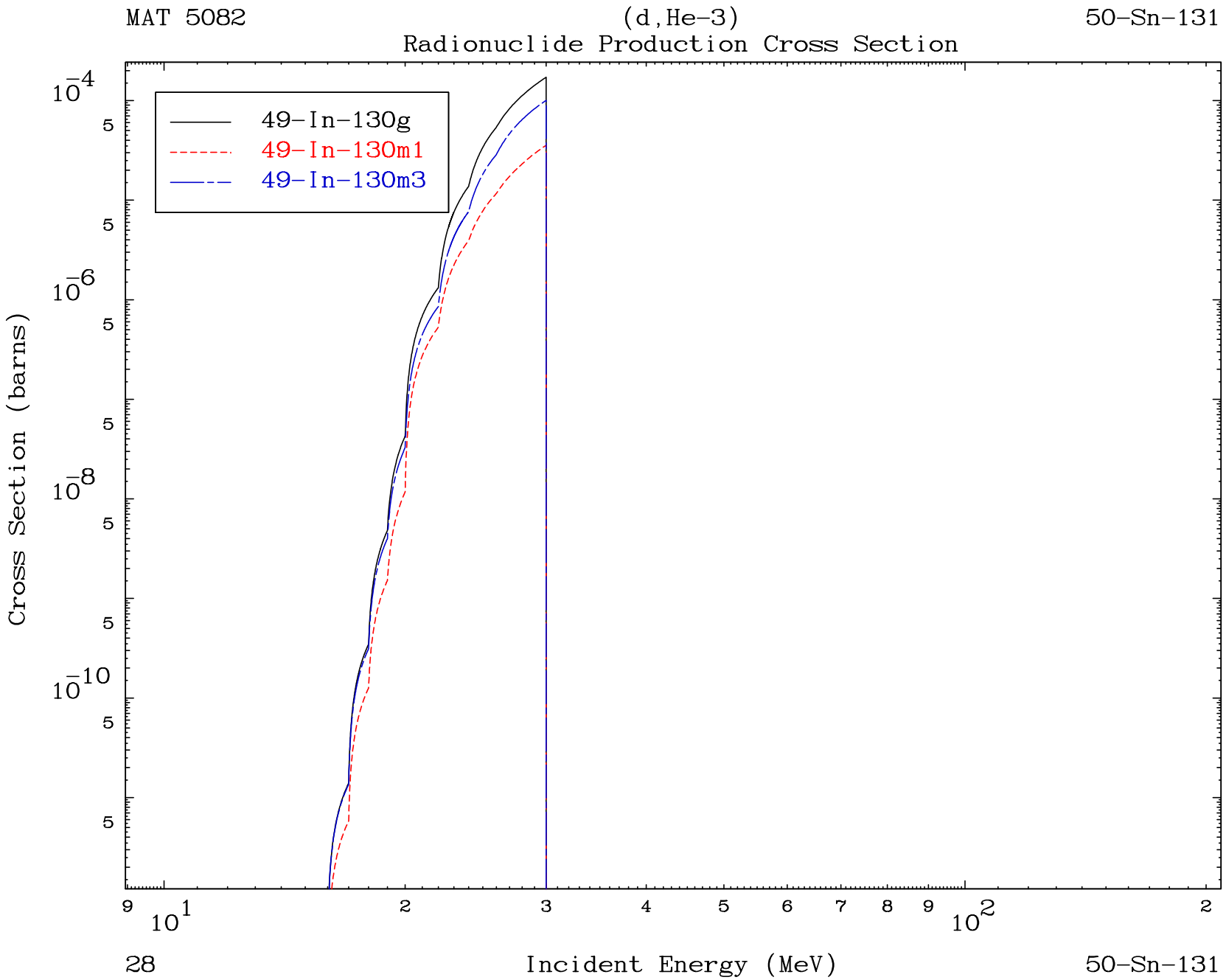

MAT 5082
(d,2n) p
50-Sn-131
Radionuclide Production Cross Section
50-Sn-130g
50-Sn-130m2
Cross Section (barns)
10-2
10-4
10-6
10-8
8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
23
Incident Energy (MeV)
50-Sn-131

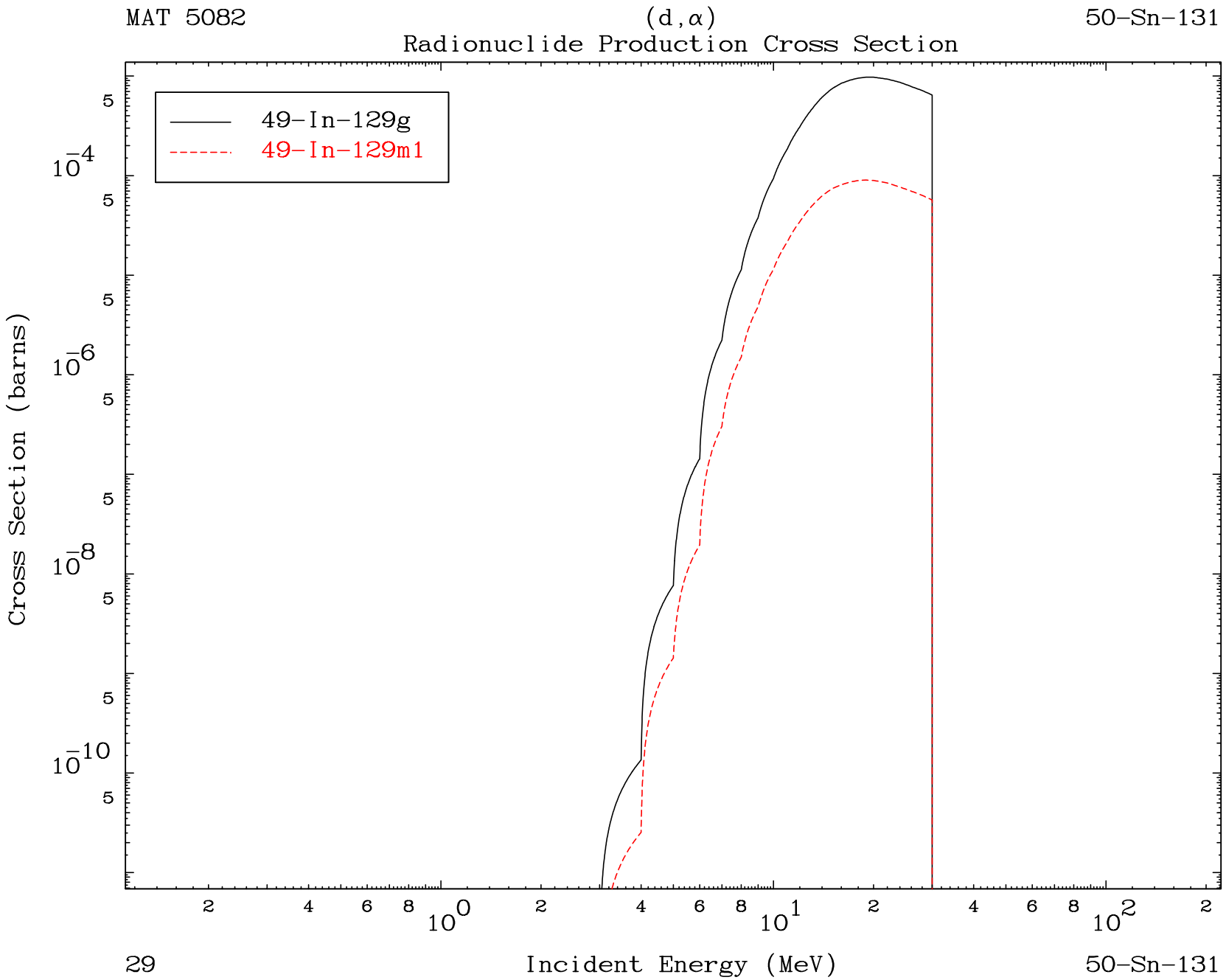

MAT 5082
(d,3n) p
50-Sn-131
Radionuclide Production Cross Section
50-Sn-129g
50-Sn-129m1
Cross Section (barns)
Incident Energy (MeV)
24
50-Sn-131

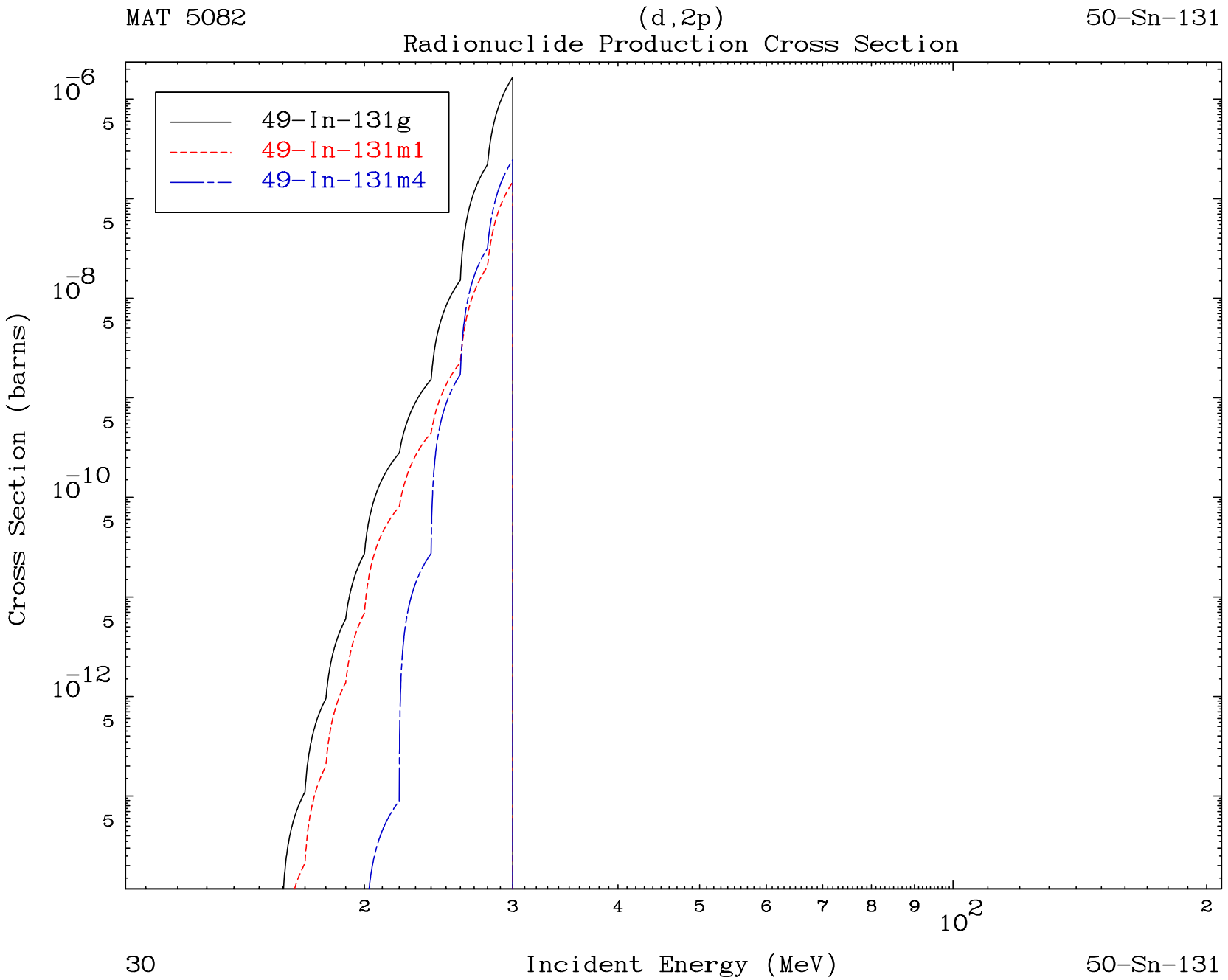

MAT 5082
(d,2n) p
50-Sn-131
Radionuclide Production Cross Section
49-In-130g
49-In-130m1
49-In-130m3
Cross Section (barns)
Incident Energy (MeV)
25
50-Sn-131

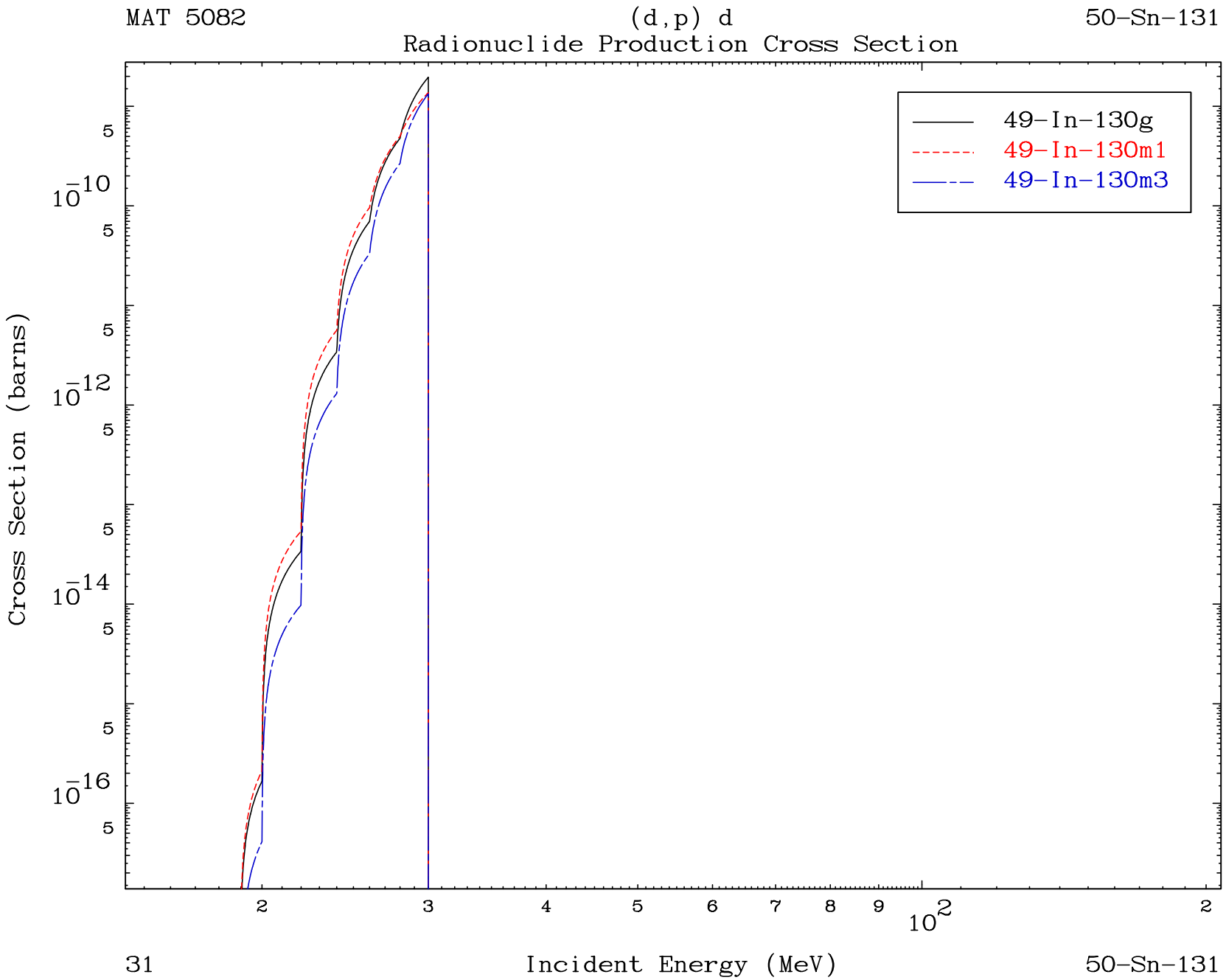

MAT 5082
(d,d)
50-Sn-131
Radionuclide Production Cross Section
50-Sn-131g
50-Sn-131m1
Cross Section (barns)
Incident Energy (MeV)
26
50-Sn-131

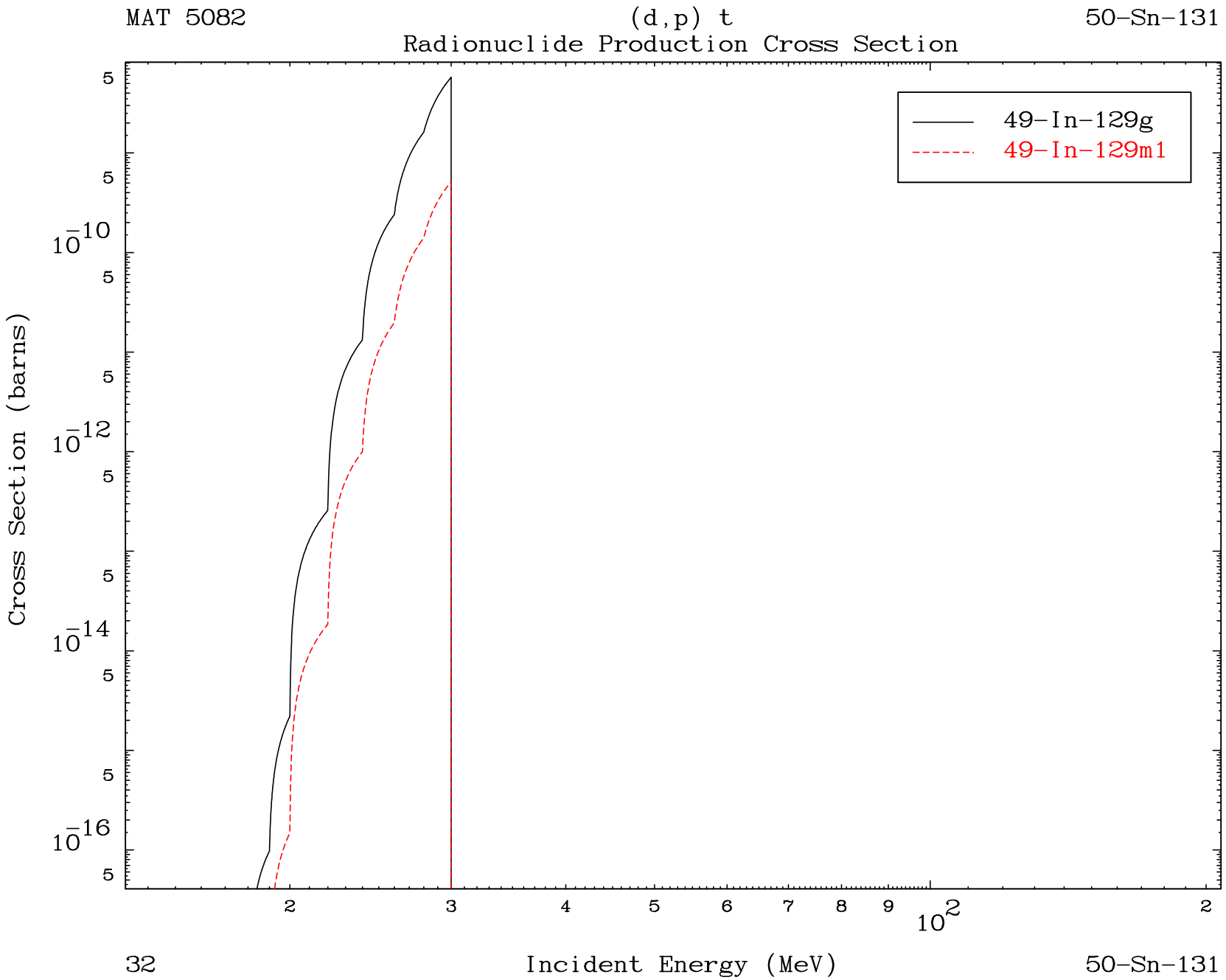

MAT 5082
(d,t)
50-Sn-131
Radionuclide Production Cross Section
50-Sn-130g
50-Sn-130m2
Cross Section (barns)
Incident Energy (MeV)
27
50-Sn-131


MAT 5082
(d,He-3)
50-Sn-131
Radionuclide Production Cross Section
49-In-130g
49-In-130m1
49-In-130m3
Cross Section (barns)
Incident Energy (MeV)
28
50-Sn-131


MAT 5082
(d,α)
50-Sn-131
Radionuclide Production Cross Section
49-In-129g
49-In-129m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
29
50-Sn-131


MAT 5082
(d,2p)
50-Sn-131
Radionuclide Production Cross Section
49-In-131g
49-In-131m1
49-In-131m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
Incident Energy (MeV)
30
50-Sn-131


MAT 5082
(d,p) d
50-Sn-131
Radionuclide Production Cross Section
49-In-130g
49-In-130m1
49-In-130m3
Cross Section (barns)
10-10
10-12
10-14
10-16
2
3
4
5
6
7
8
9
10 2
2
31
Incident Energy (MeV)
50-Sn-131


MAT 5082
(d,p) t
50-Sn-131
Radionuclide Production Cross Section
49-In-129g
49-In-129m1
Cross Section (barns)
Incident Energy (MeV)
32
50-Sn-131