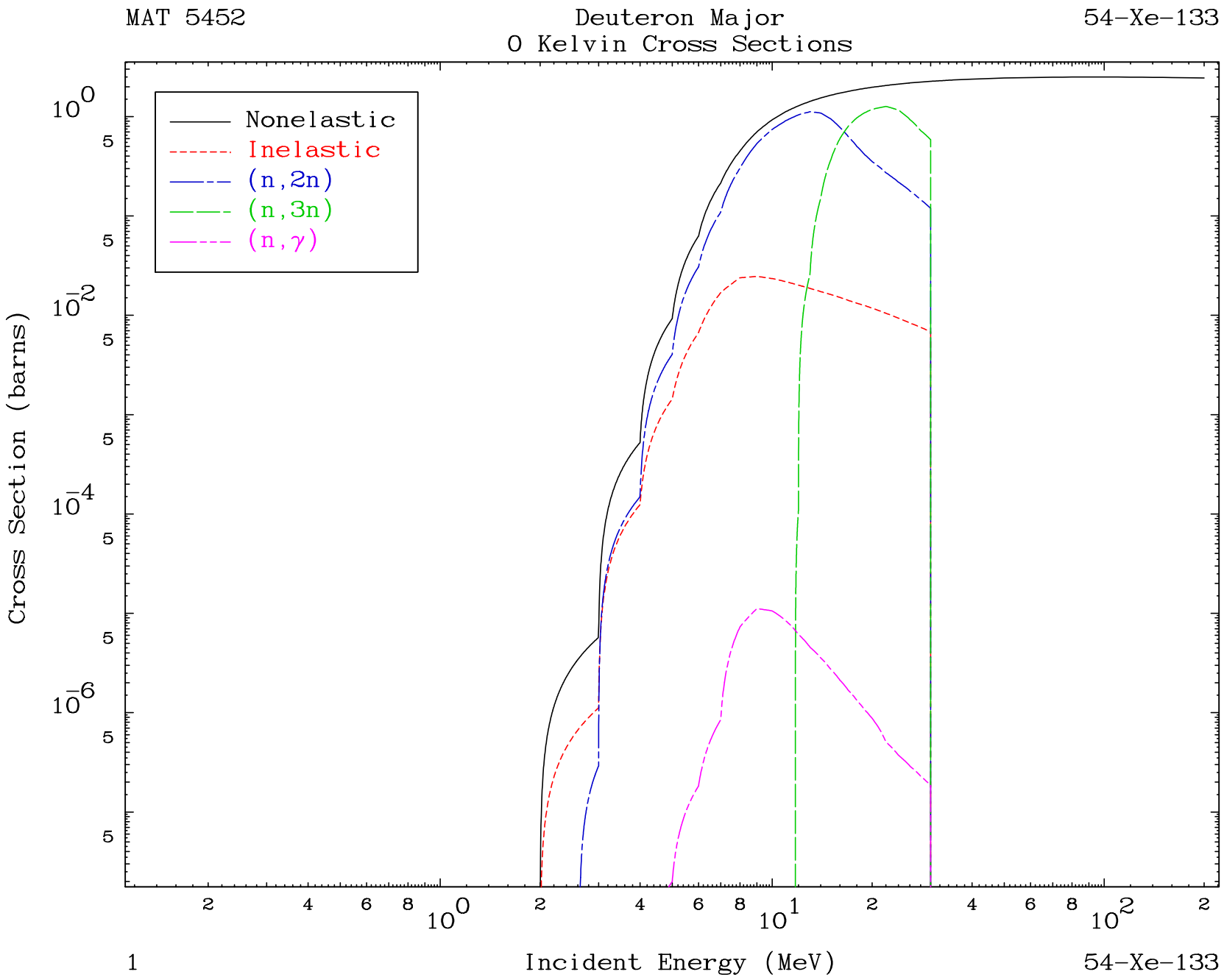
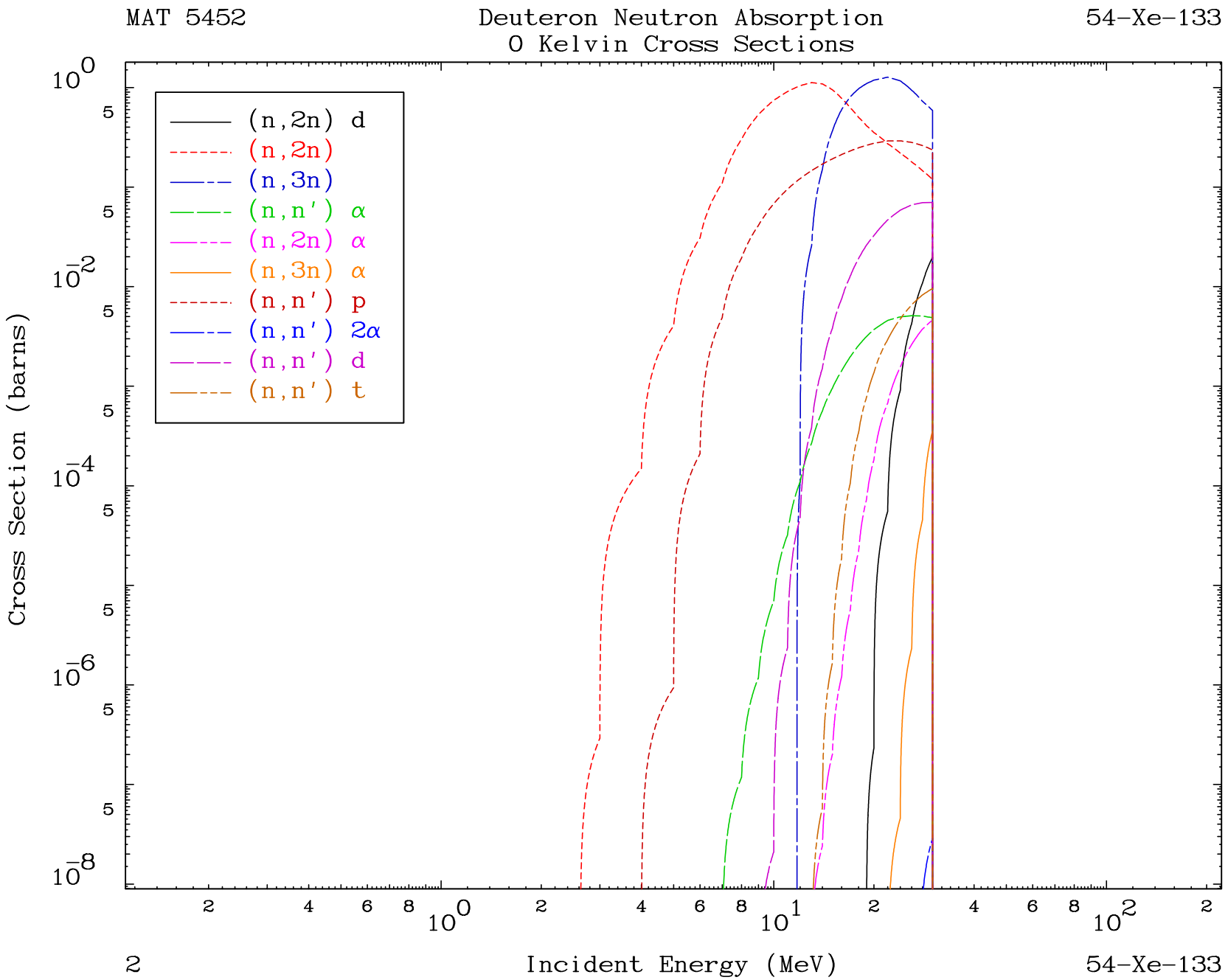
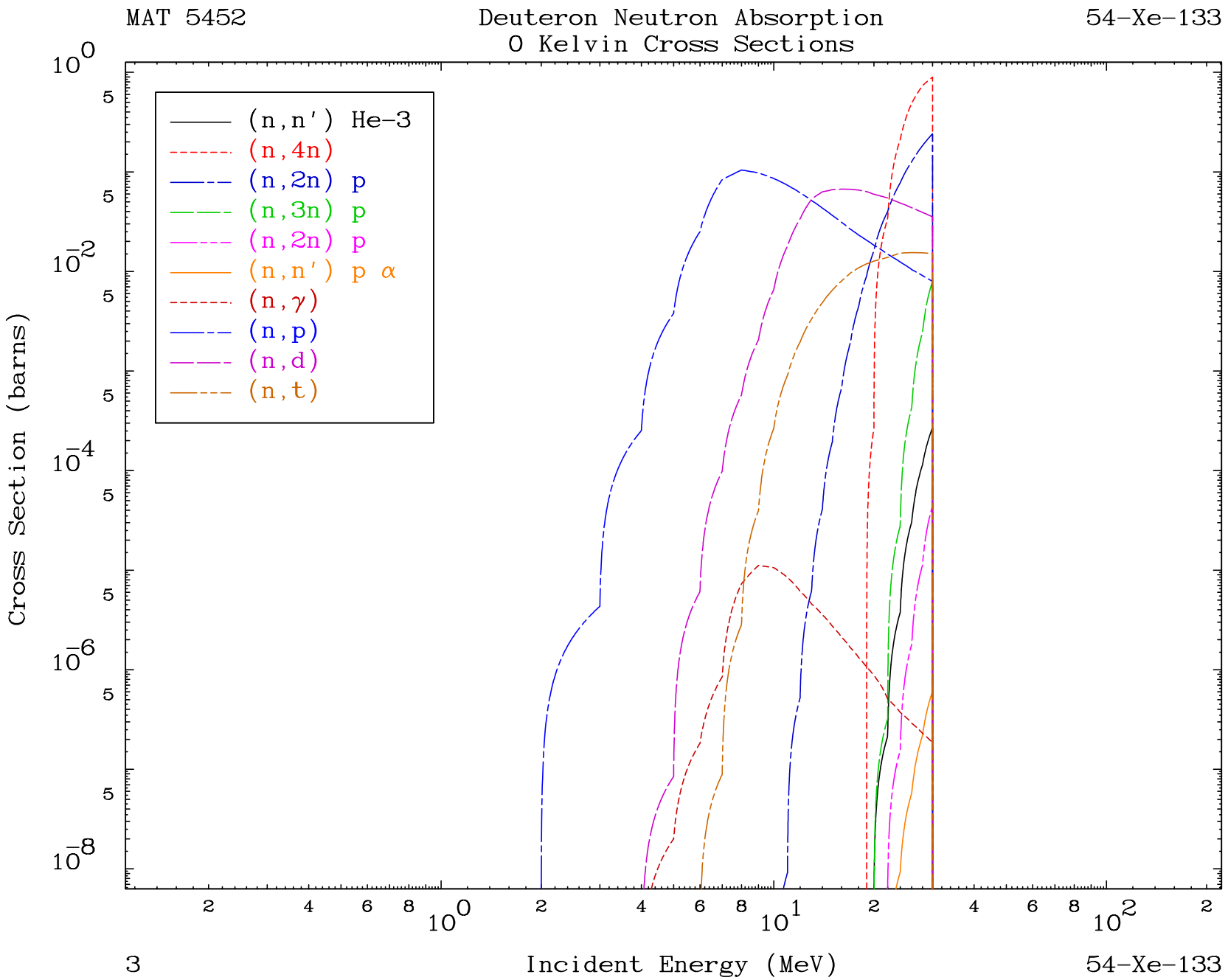
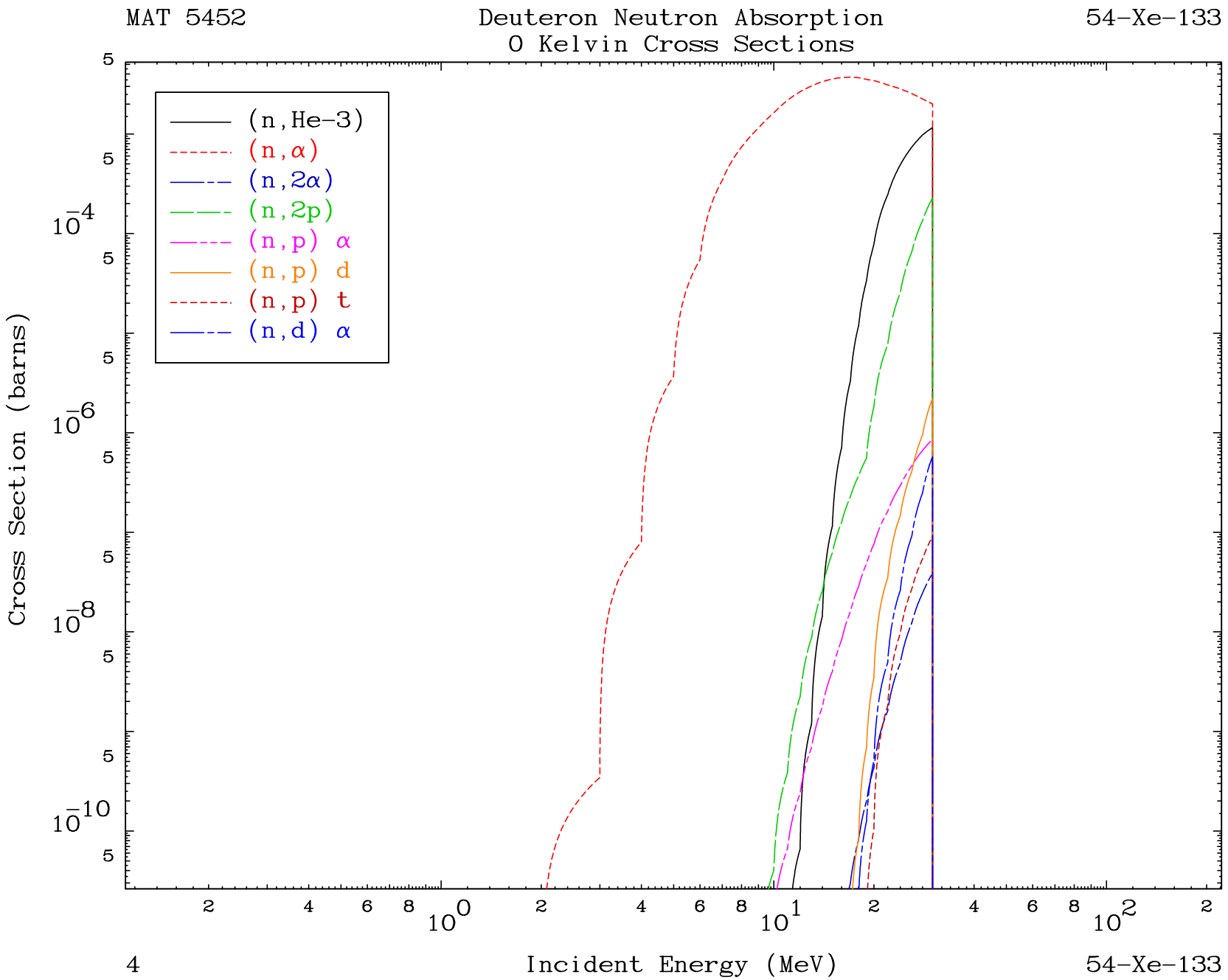
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

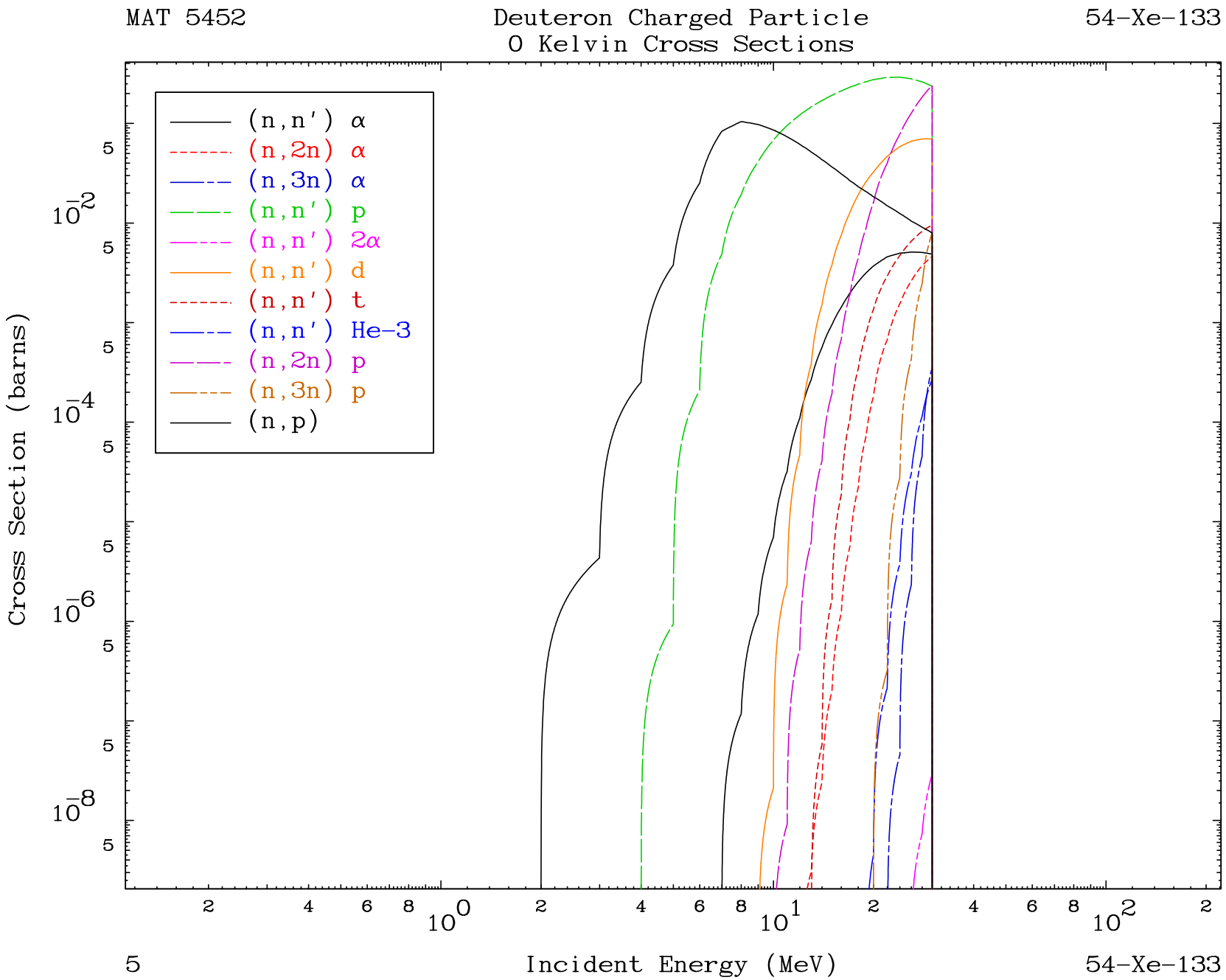
Press Mouse Button to Start

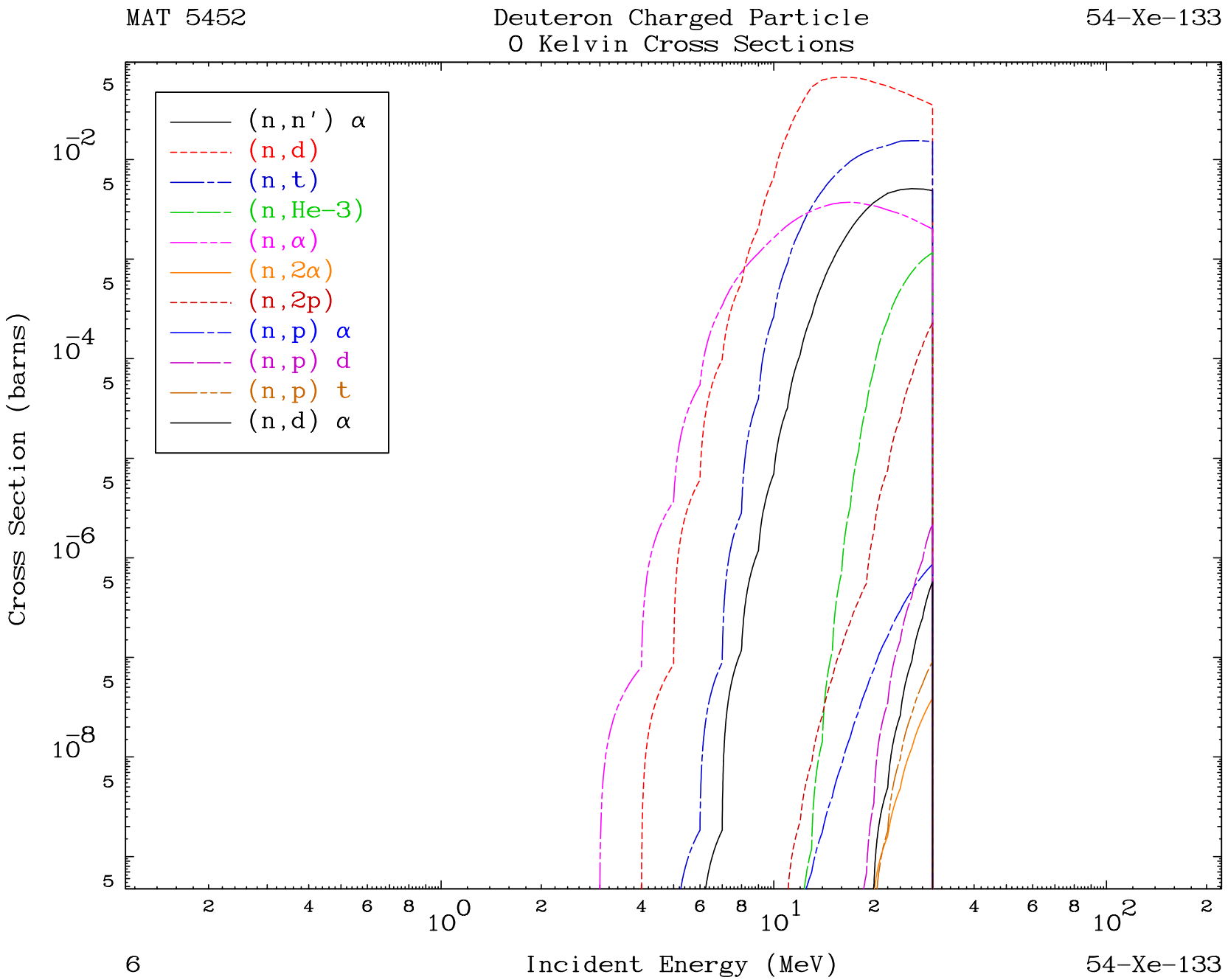

MAT 5452
Deuteron Major
54-Xe-133
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
54-Xe-133

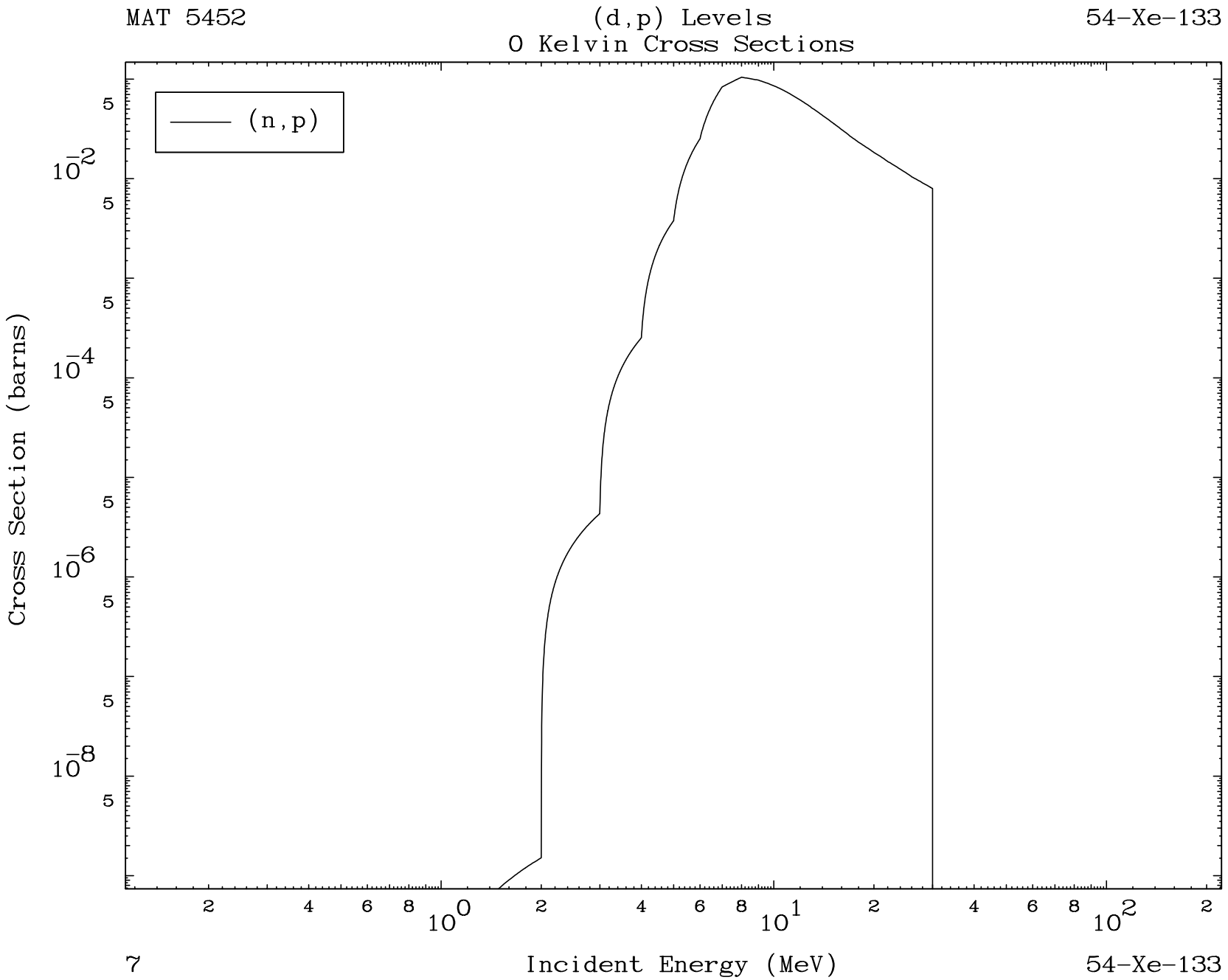

MAT 5452
Deuteron Neutron Absorption
0 Kelvin Cross Sections
54-Xe-133
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
54-Xe-133
2

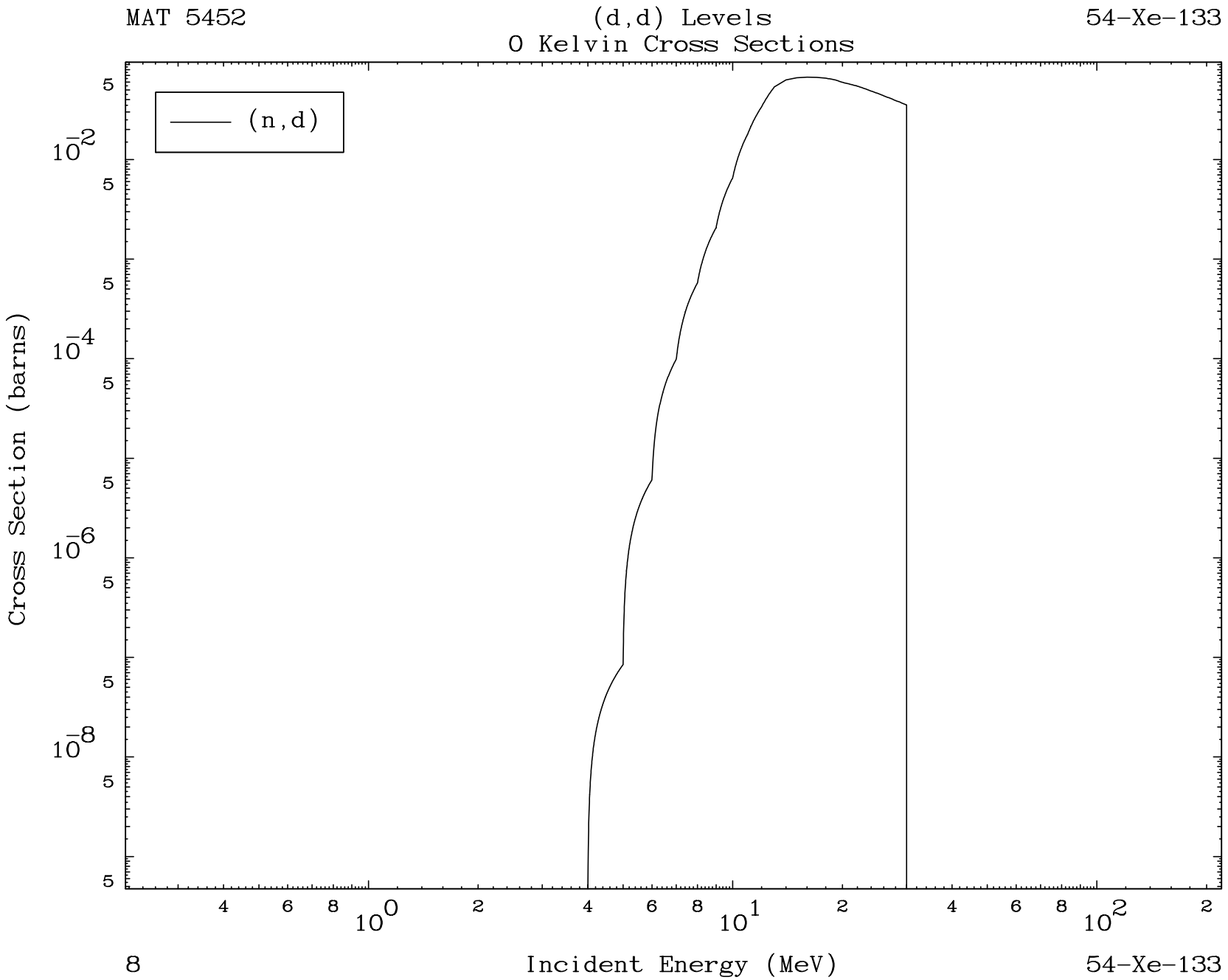

MAT 5452
Deuteron Neutron Absorption
0 Kelvin Cross Sections
54-Xe-133
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
54-Xe-133

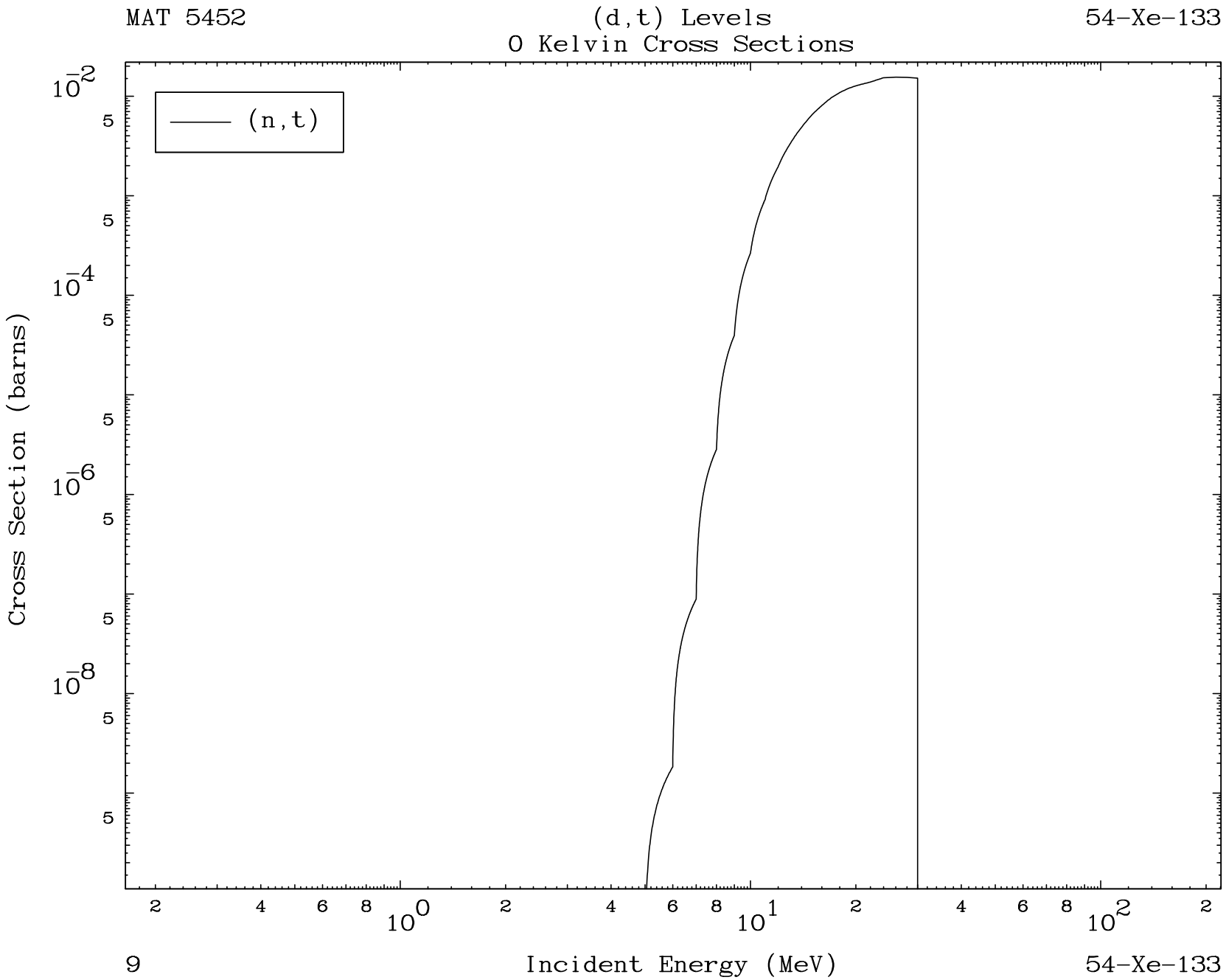

MAT 5452
Deuteron Neutron Absorption
0 Kelvin Cross Sections
54-Xe-133
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
54-Xe-133

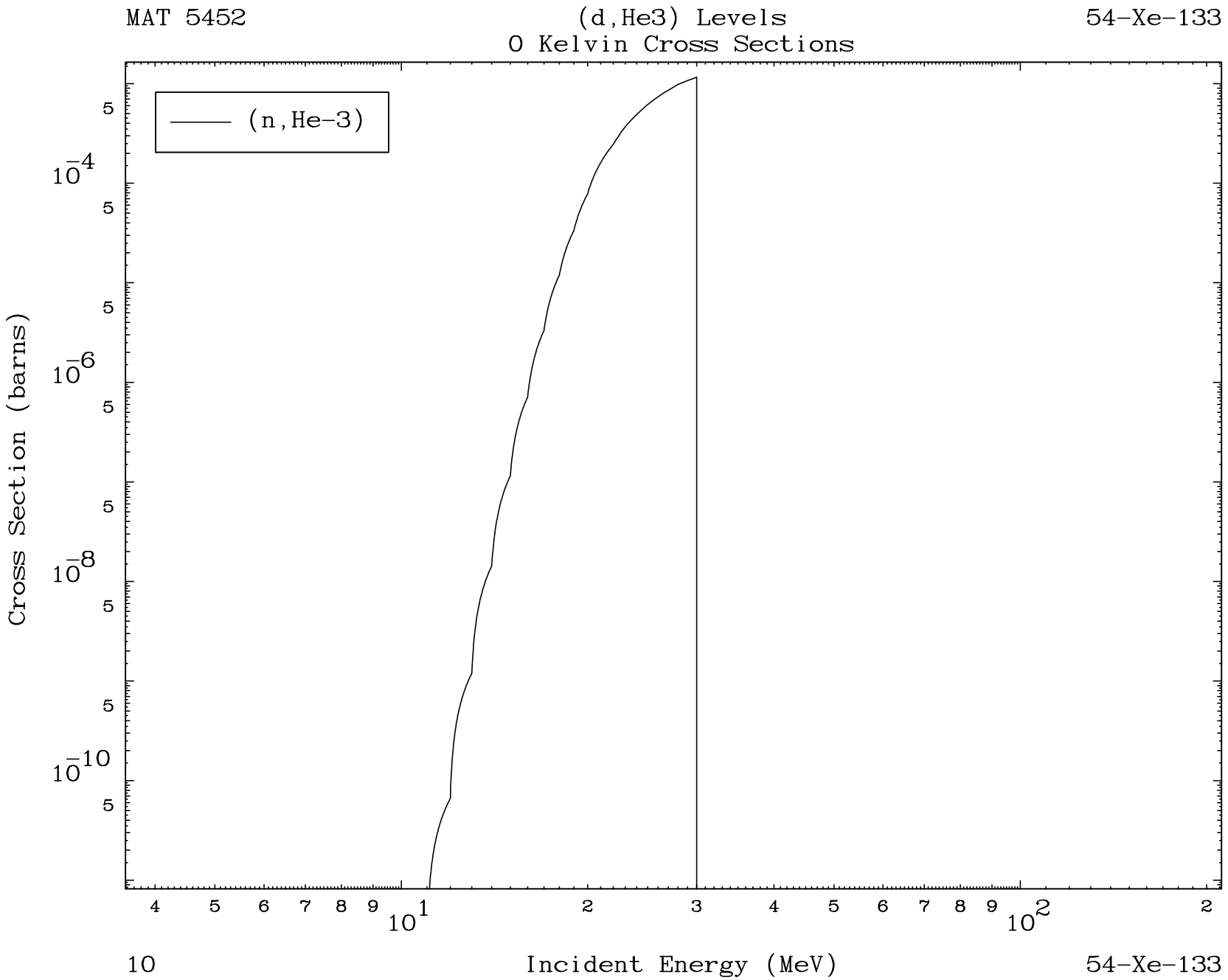

MAT 5452
Deuteron Charged Particle
0 Kelvin Cross Sections
54-Xe-133
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
5
54-Xe-133

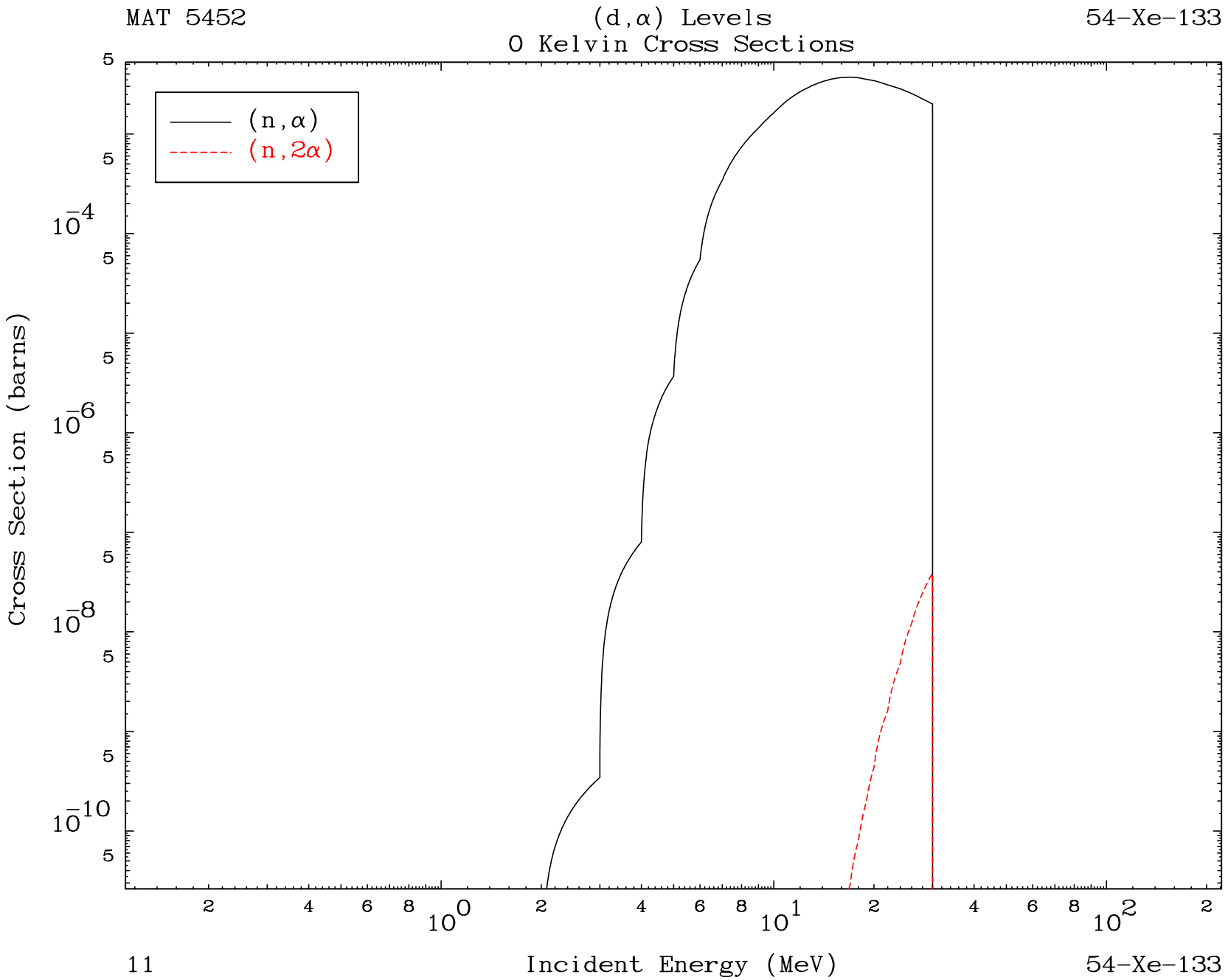

MAT 5452
Deuteron Charged Particle
0 Kelvin Cross Sections
54-Xe-133
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
54-Xe-133

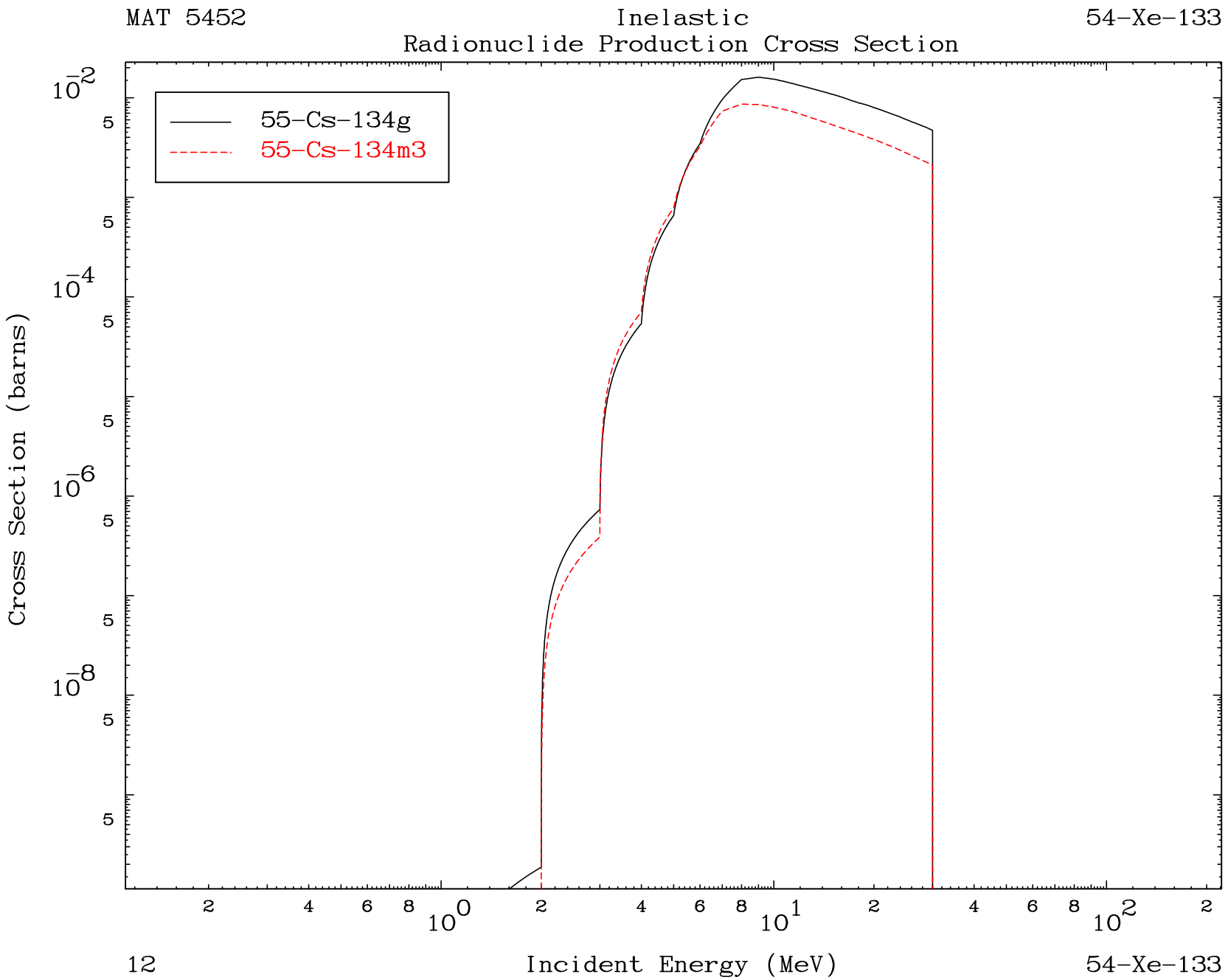

MAT 5452
(d,p) Levels
54-Xe-133
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)
7
54-Xe-133

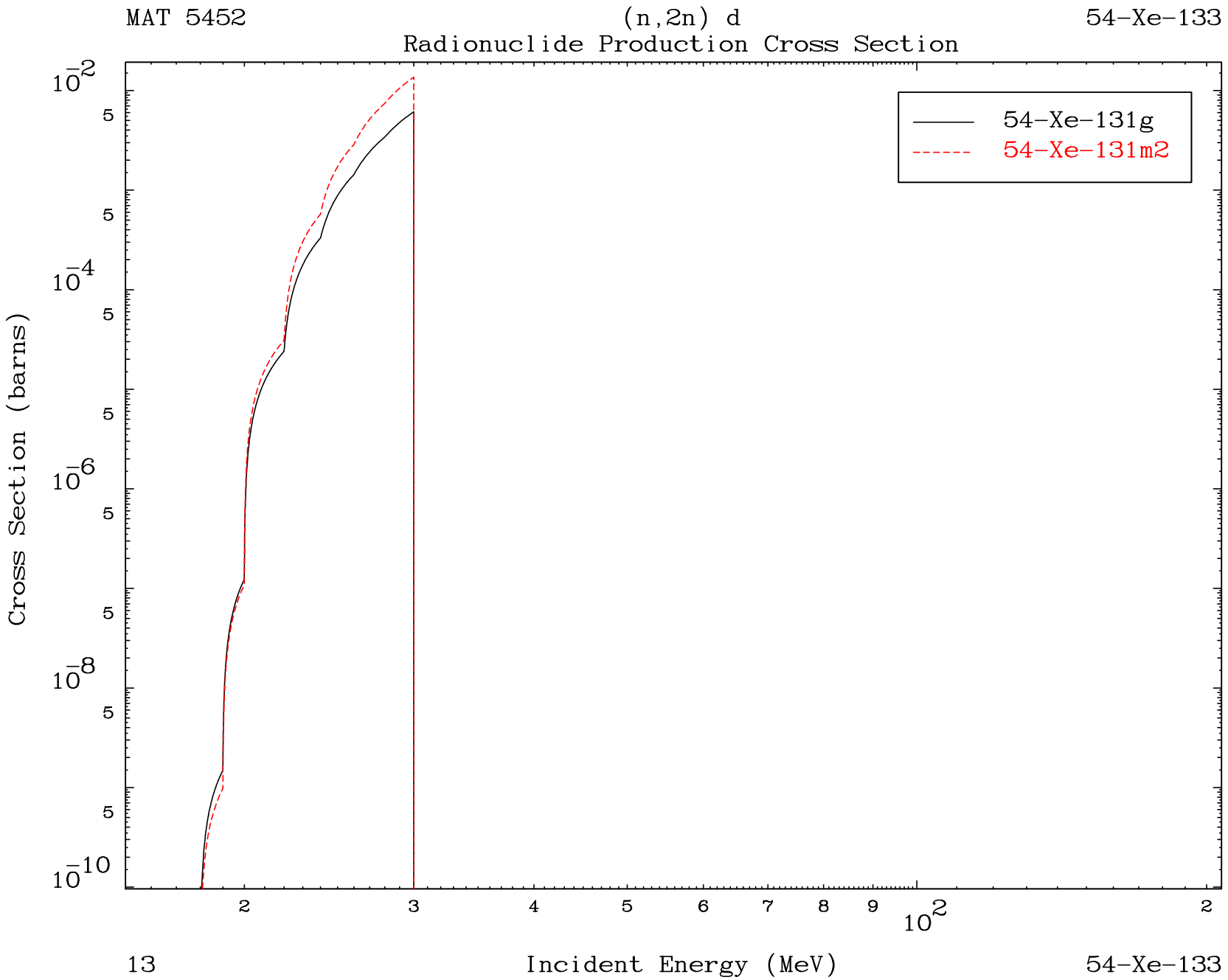

MAT 5452
(d,d) Levels
54-Xe-133
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
54-Xe-133
8

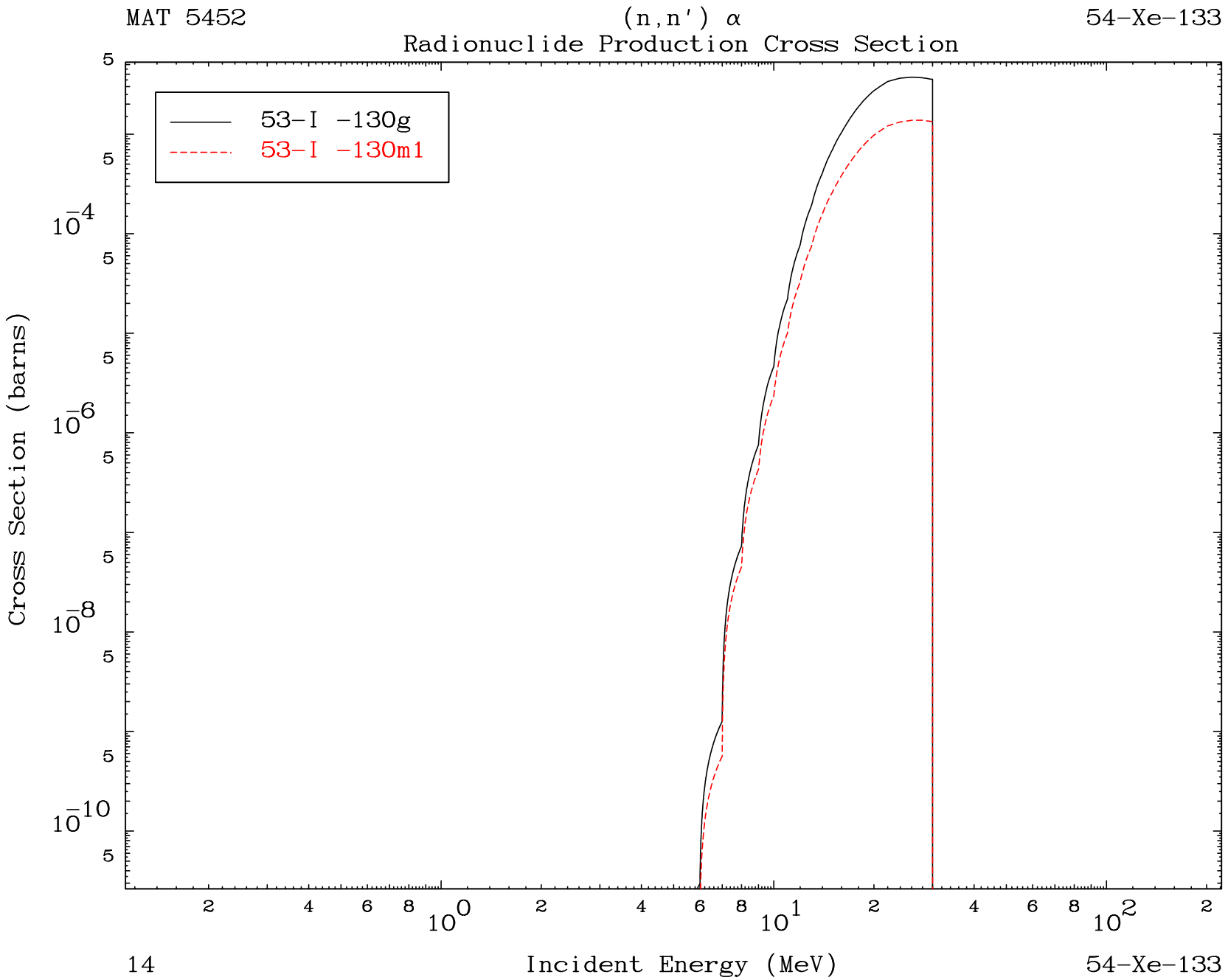

MAT 5452
(d,t) Levels
54-Xe-133
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
9
54-Xe-133

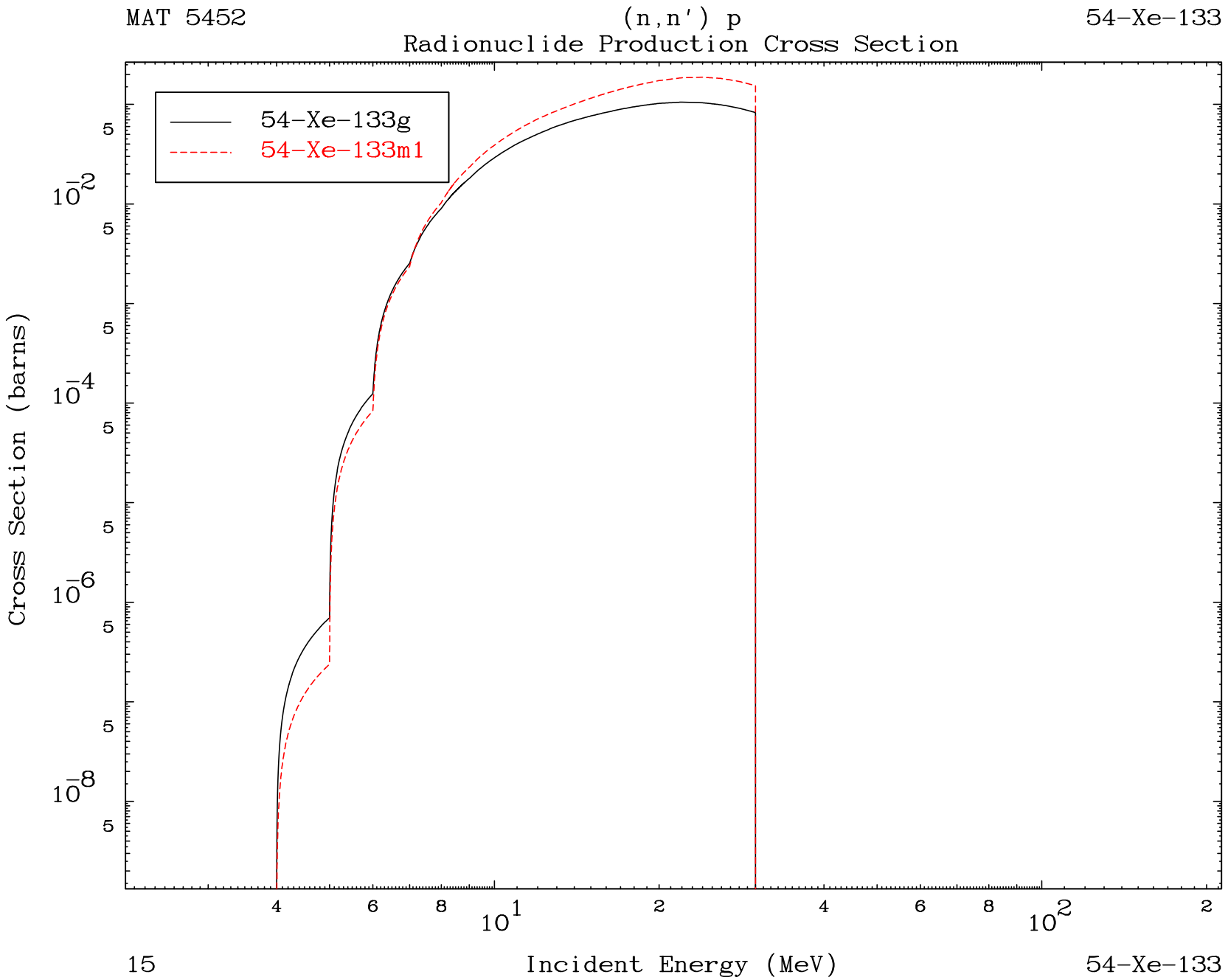

MAT 5452
(d,He3) Levels
54-Xe-133
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
10
Incident Energy (MeV)
54-Xe-133

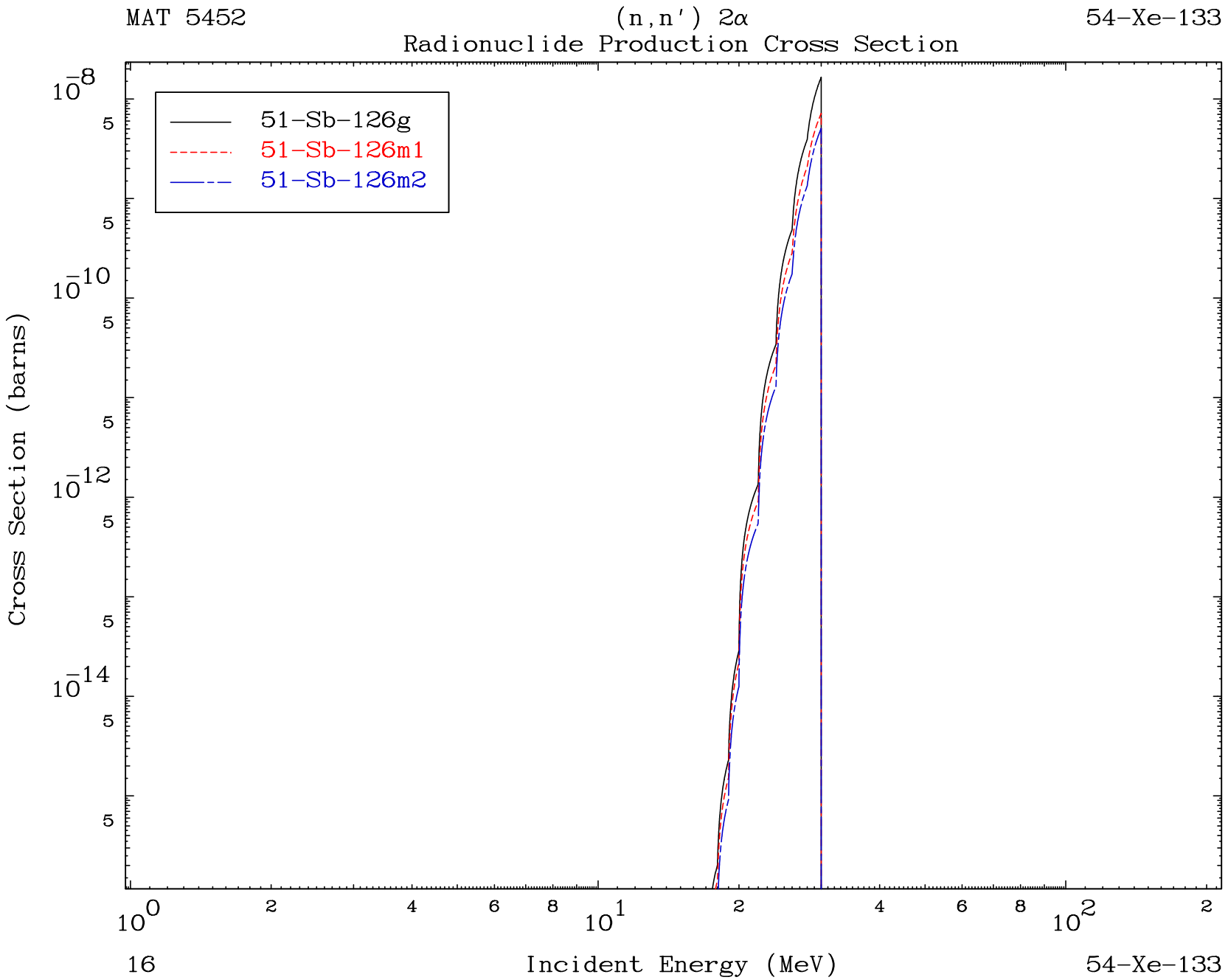

MAT 5452
(d,α) Levels
54-Xe-133
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
11
54-Xe-133

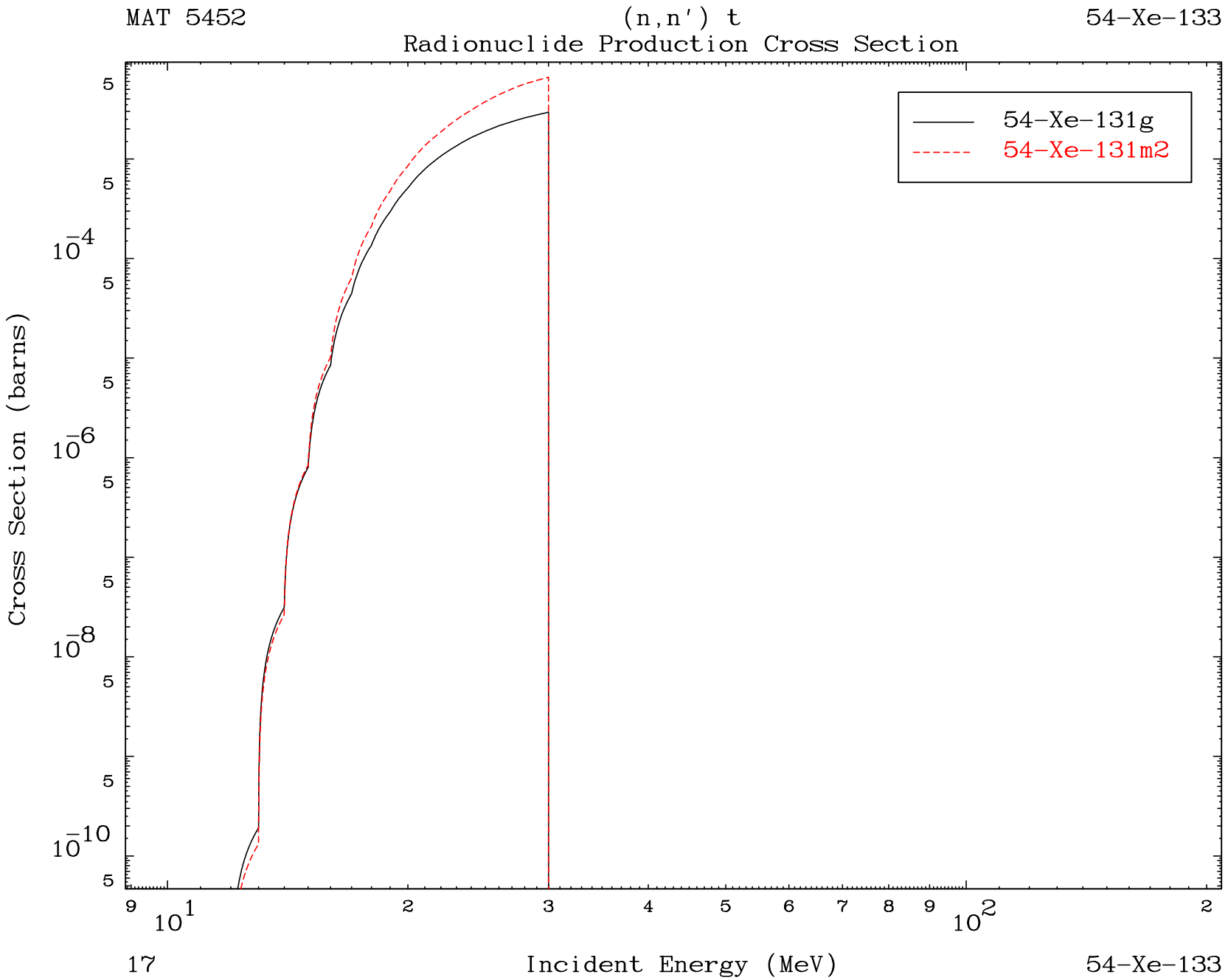

MAT 5452
Inelastic
54-Xe-133
Radionuclide Production Cross Section
55-Cs-134g
55-Cs-134m3
Cross Section (barns)
Incident Energy (MeV)
12
54-Xe-133

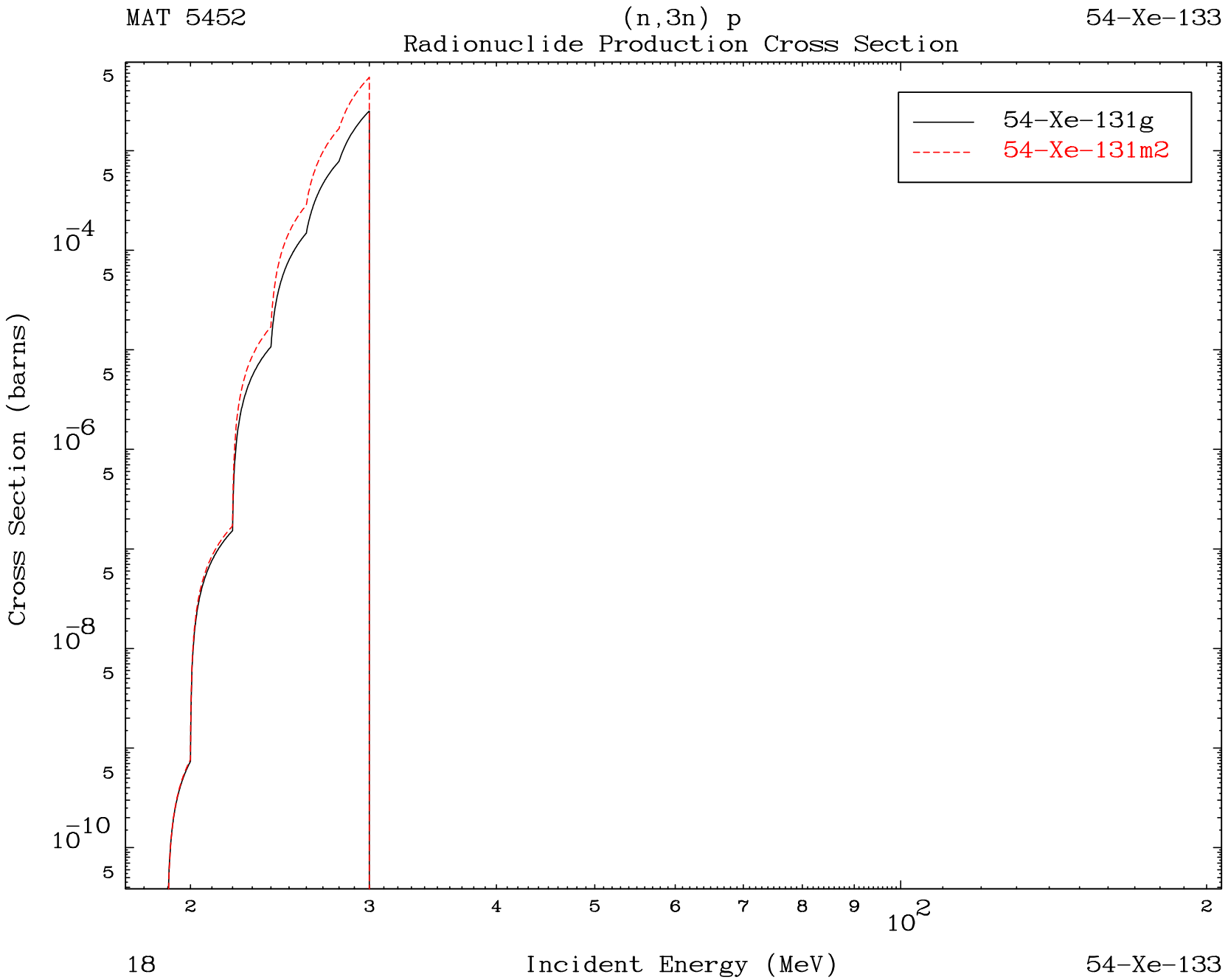

MAT 5452
(n,2n) d
54-Xe-133
Radionuclide Production Cross Section
54-Xe-131g
54-Xe-131m2
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
54-Xe-133

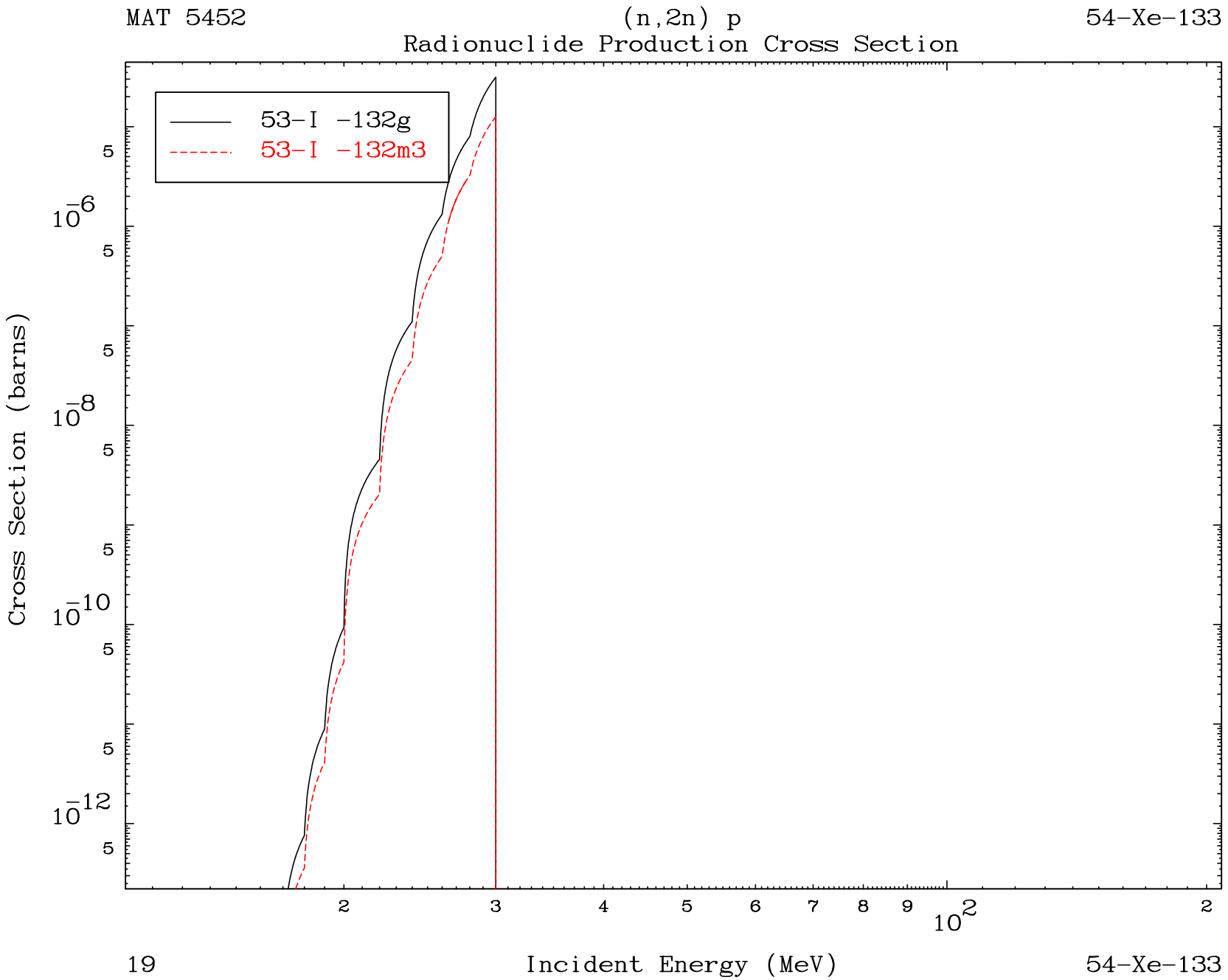

MAT 5452
(n,n') α
54-Xe-133
Radionuclide Production Cross Section
53-I -130g
53-I -130m1
Cross Section (barns)
Incident Energy (MeV)
14
54-Xe-133

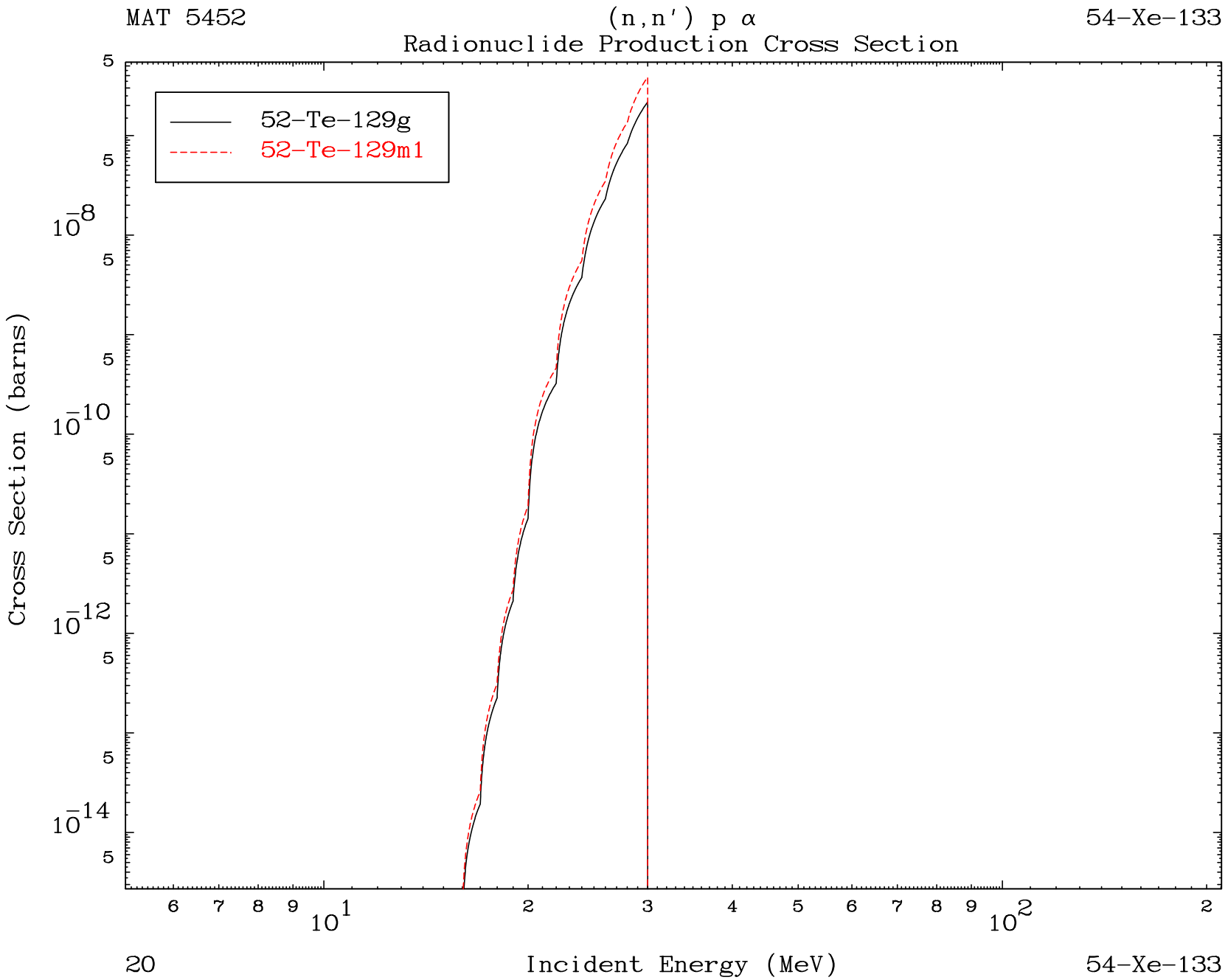

MAT 5452
(n,n') p
54-Xe-133
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
10-2
10-4
10-6
10-8
4
6
8
10 1
2
4
6
8
10 2
2
15
Incident Energy (MeV)
54-Xe-133

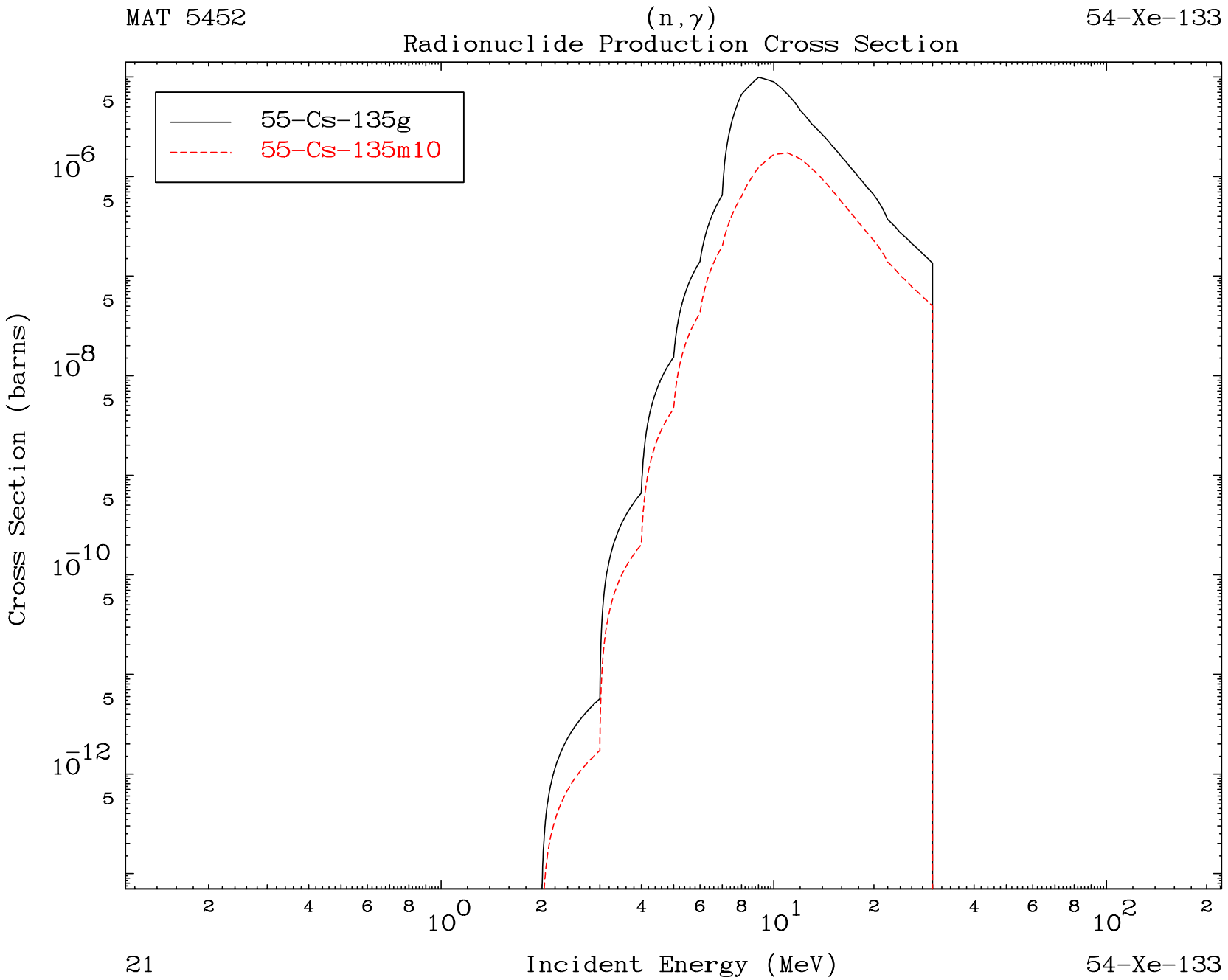

MAT 5452
(n,n') 2α
54-Xe-133
Radionuclide Production Cross Section
51-Sb-126g
51-Sb-126m1
51-Sb-126m2
Cross Section (barns)
Incident Energy (MeV)
16
54-Xe-133

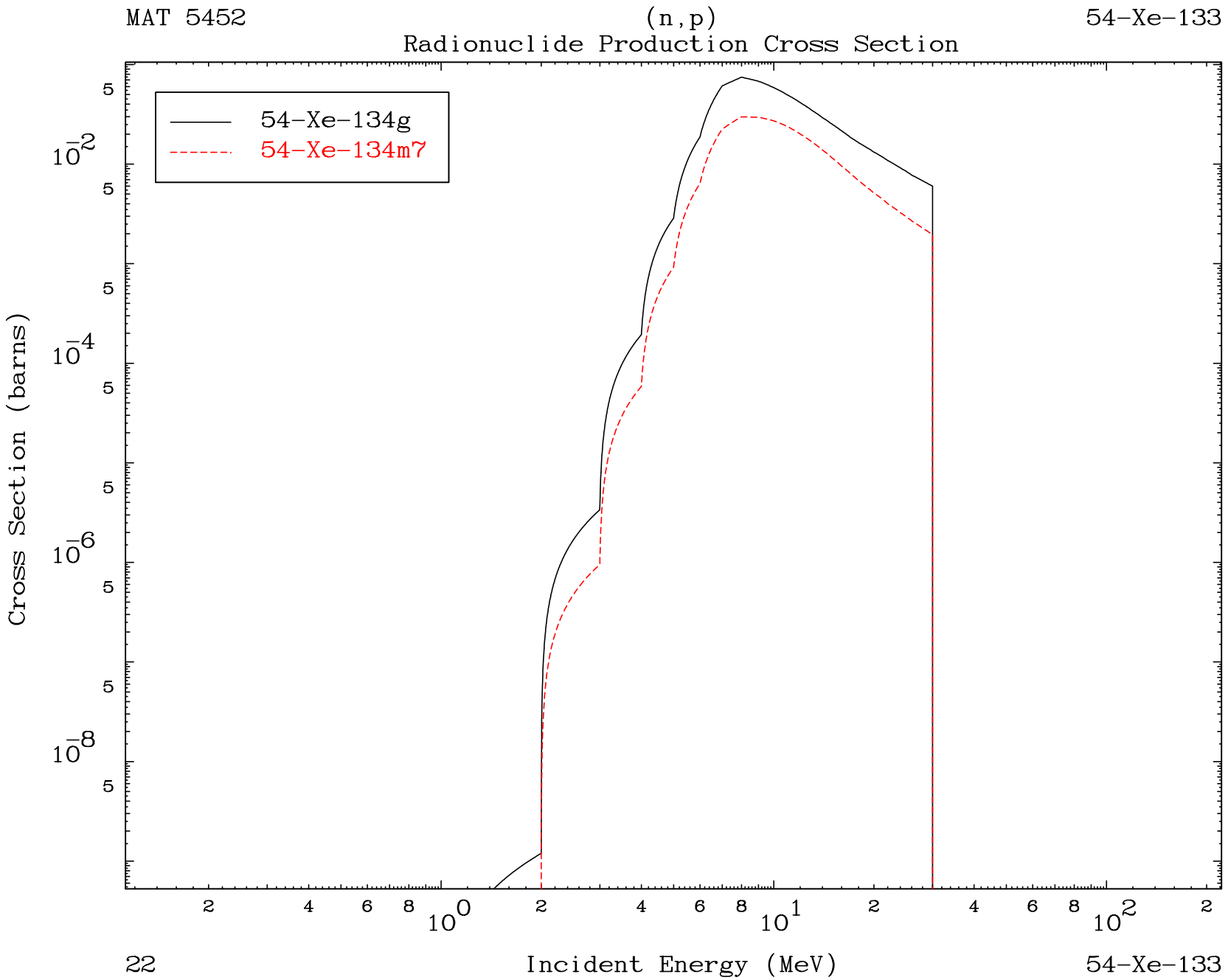

MAT 5452
(n,n') t
54-Xe-133
Radionuclide Production Cross Section
54-Xe-131g
54-Xe-131m2
Cross Section (barns)
Incident Energy (MeV)
17
54-Xe-133

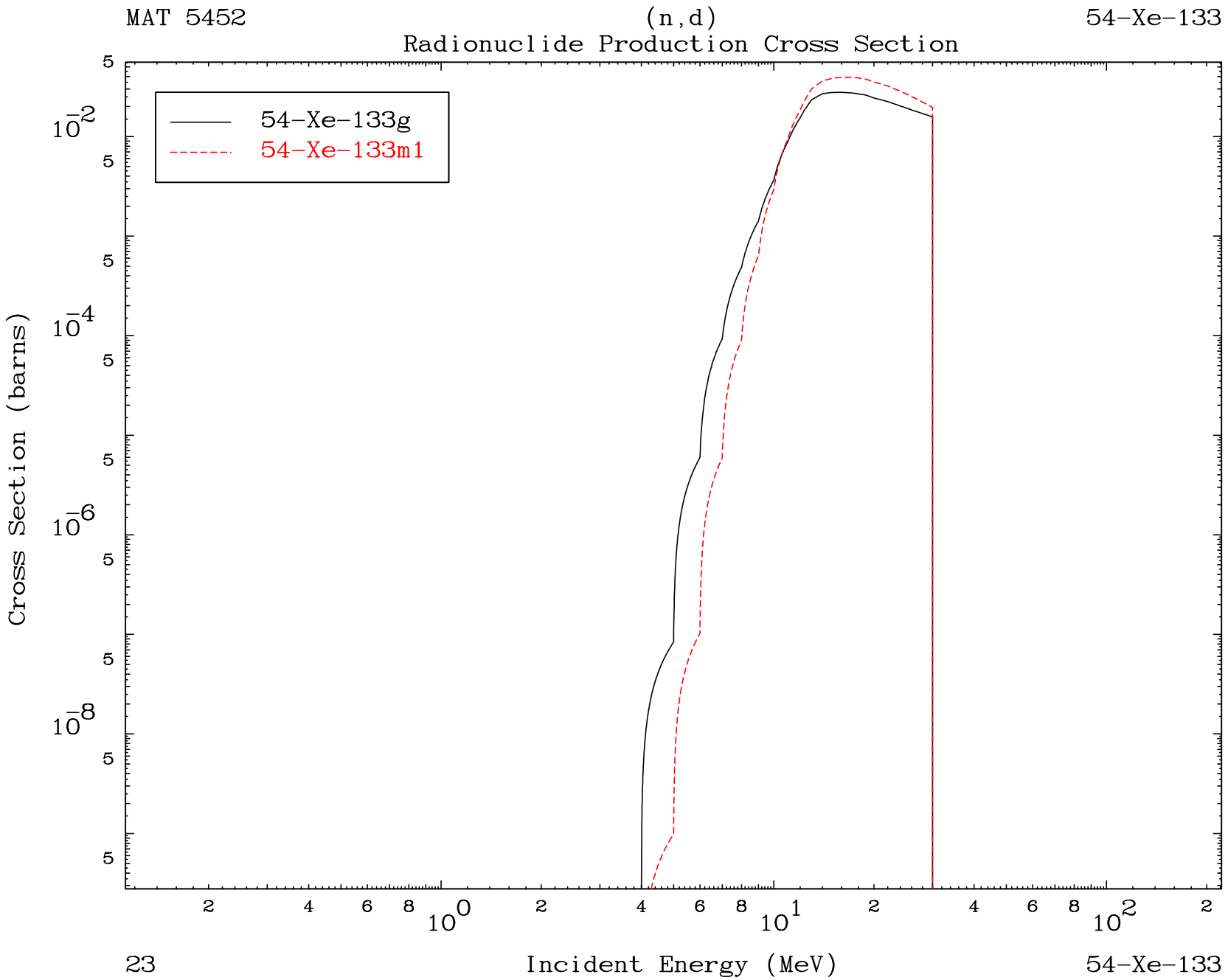

MAT 5452
(n,3n) p
54-Xe-133
Radionuclide Production Cross Section
54-Xe-131g
54-Xe-131m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
54-Xe-133

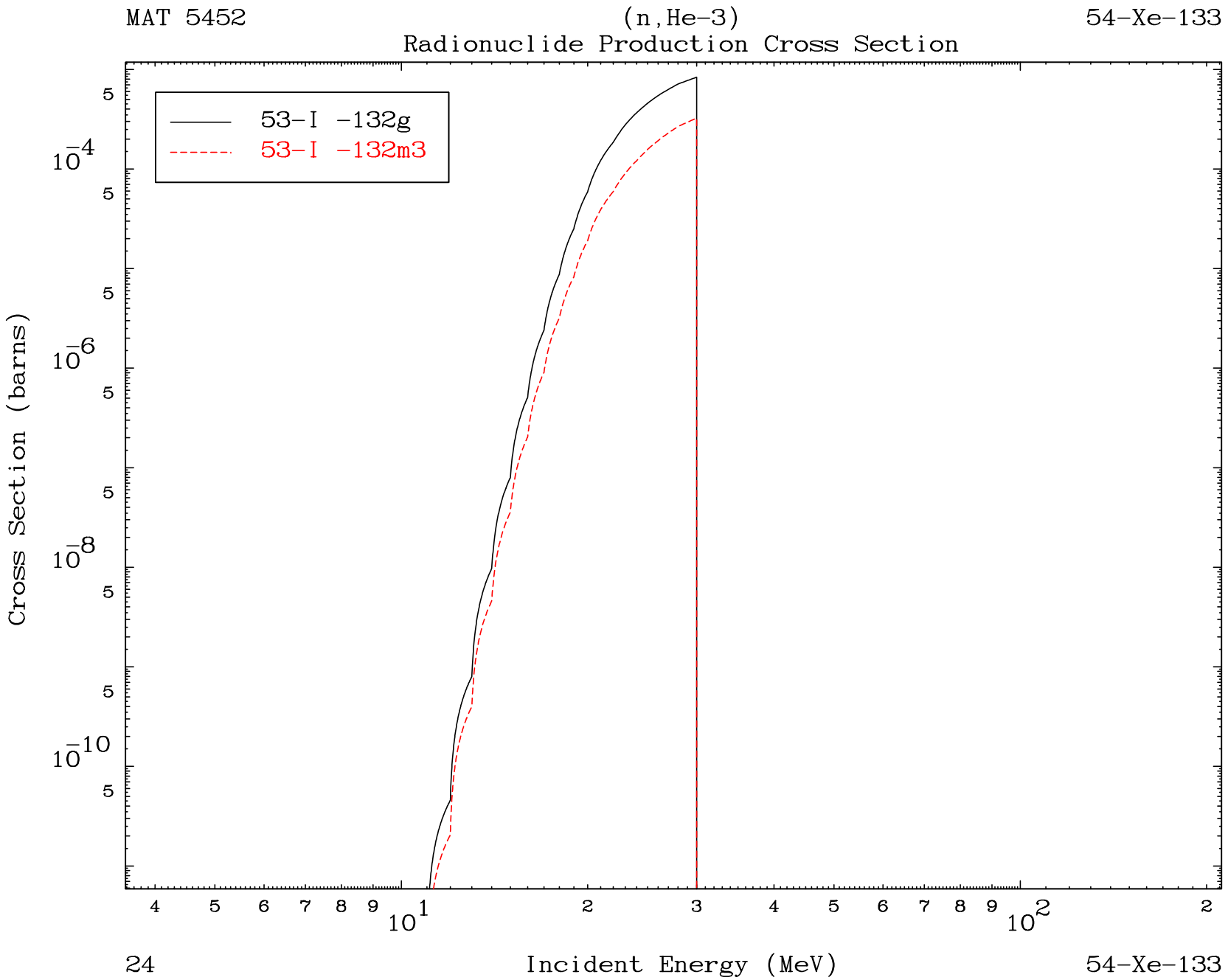

MAT 5452
(n,2n) p
54-Xe-133
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
54-Xe-133

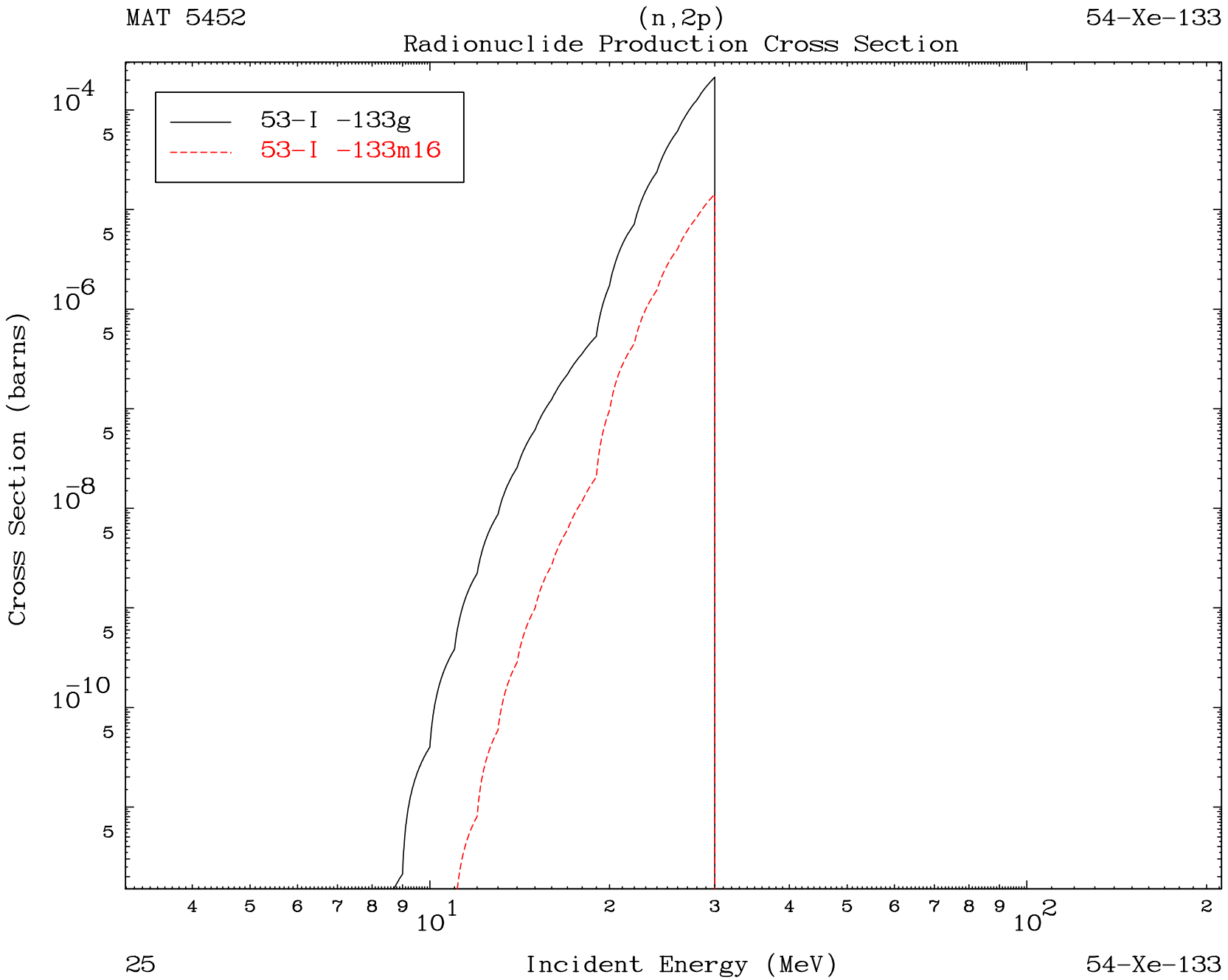

MAT 5452
(n,n') p α
54-Xe-133
Radionuclide Production Cross Section
52-Te-129g
52-Te-129m1
Cross Section (barns)
Incident Energy (MeV)
20
54-Xe-133

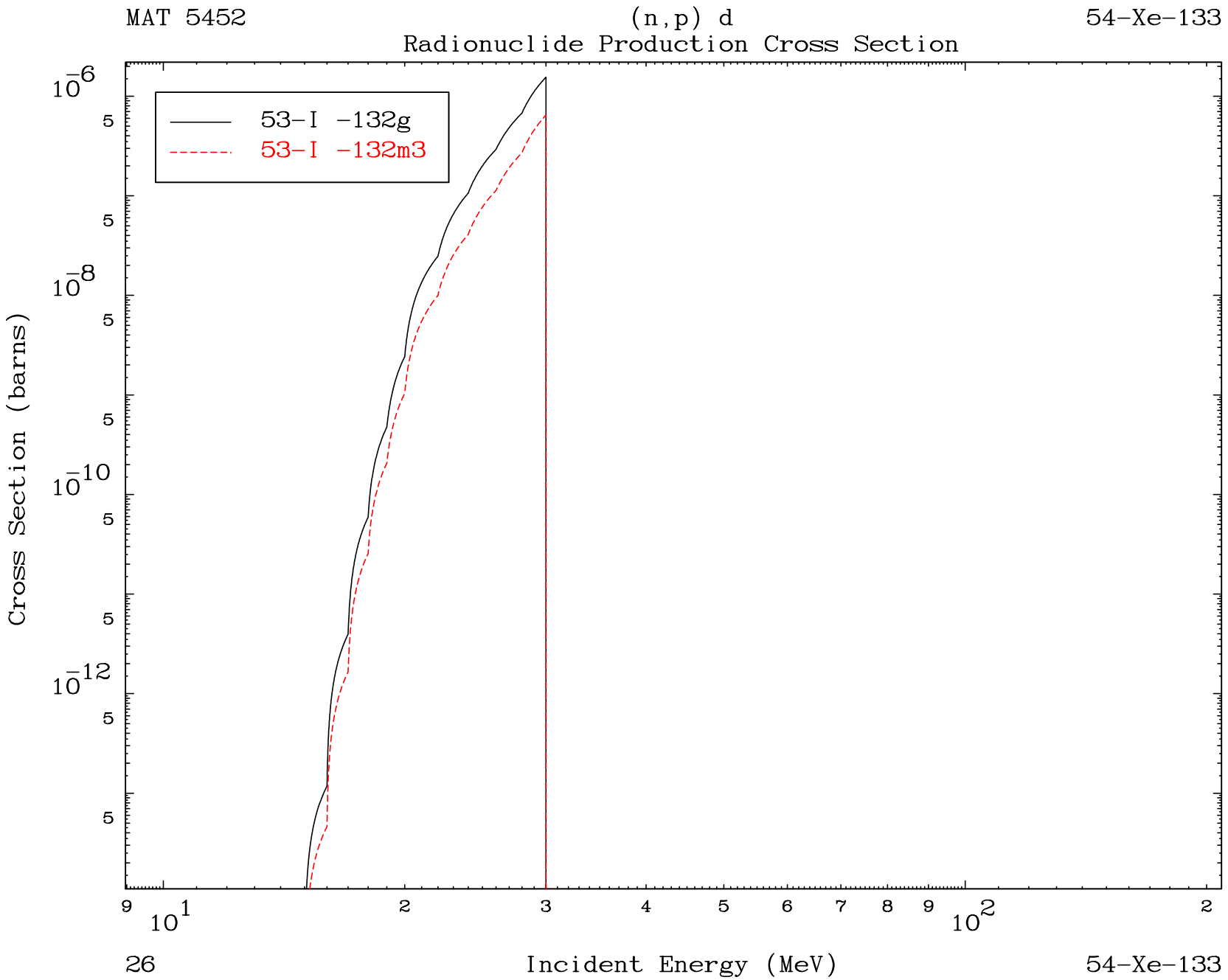

MAT 5452
(n,γ)
54-Xe-133
Radionuclide Production Cross Section
55-Cs-135g
55-Cs-135m10
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
21
54-Xe-133

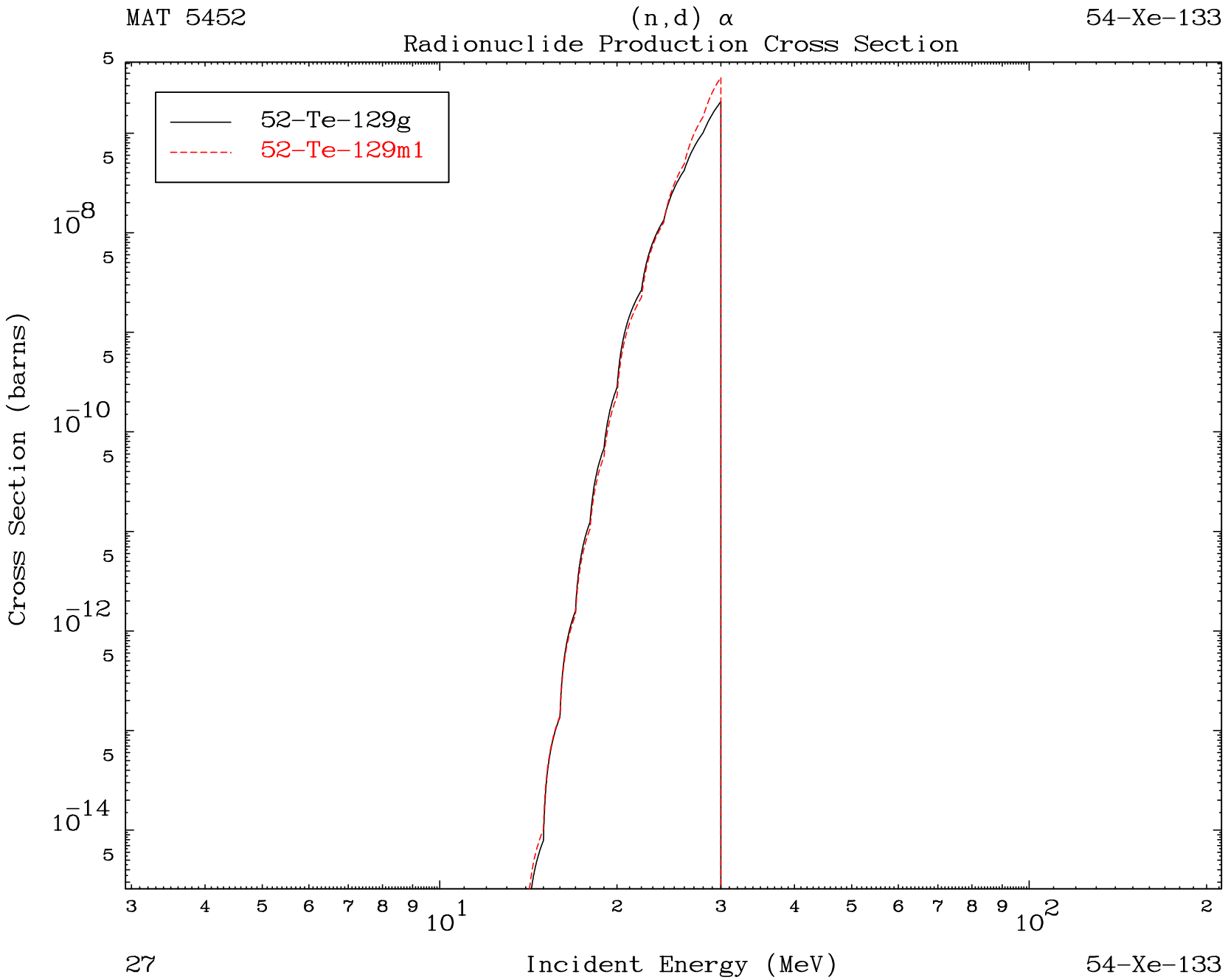

MAT 5452
(n,p)
54-Xe-133
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
Incident Energy (MeV)
22
54-Xe-133


MAT 5452
(n,d)
54-Xe-133
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
Incident Energy (MeV)
23
54-Xe-133


MAT 5452
(n,He-3)
54-Xe-133
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
Incident Energy (MeV)
24
54-Xe-133


MAT 5452
(n,2p)
54-Xe-133
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
Incident Energy (MeV)
25
54-Xe-133


MAT 5452
(n,p) d
54-Xe-133
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
Incident Energy (MeV)
26
54-Xe-133


MAT 5452
(n,d) α
54-Xe-133
Radionuclide Production Cross Section
52-Te-129g
52-Te-129m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
10^1
10^2
Incident Energy (MeV)
27
54-Xe-133