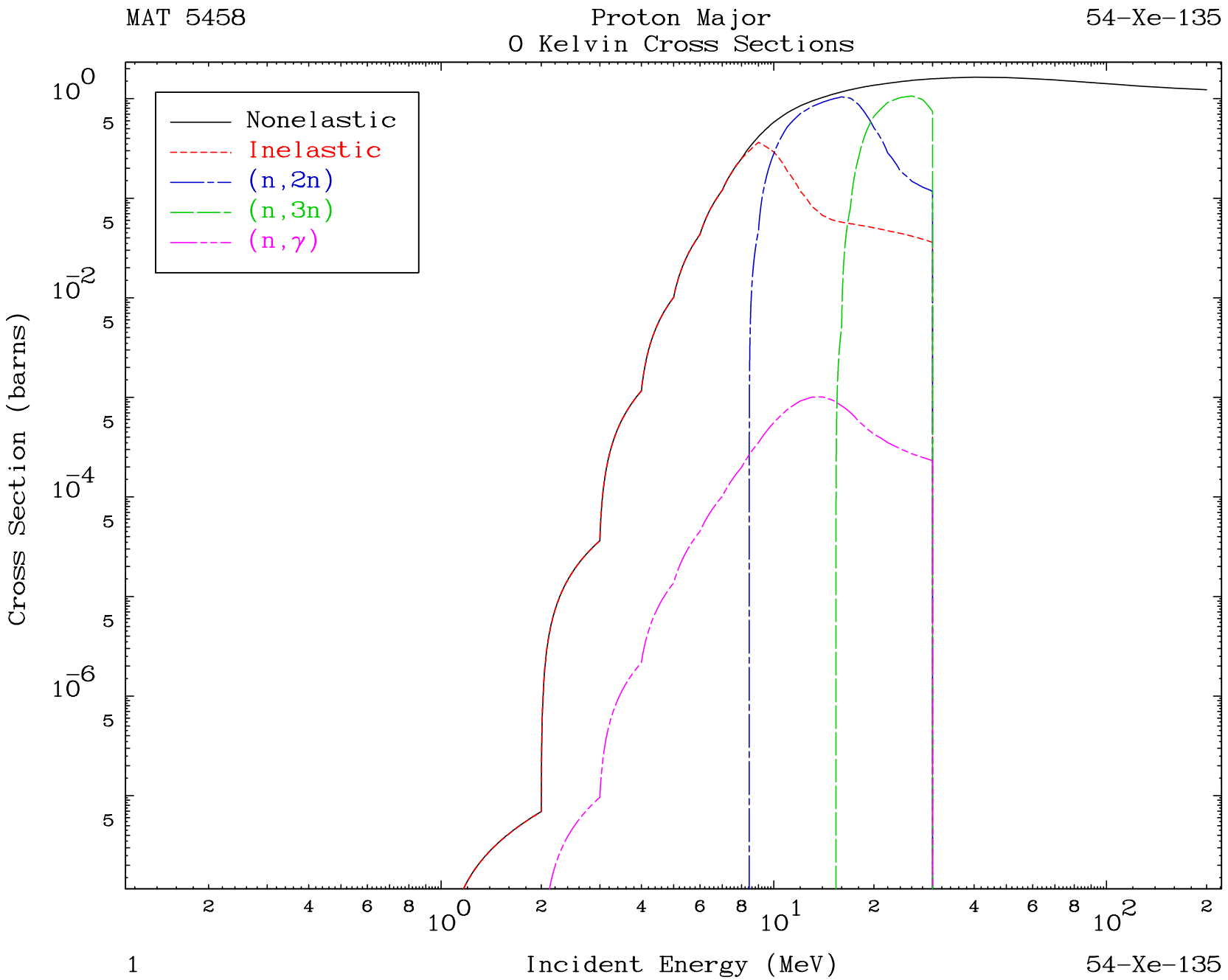
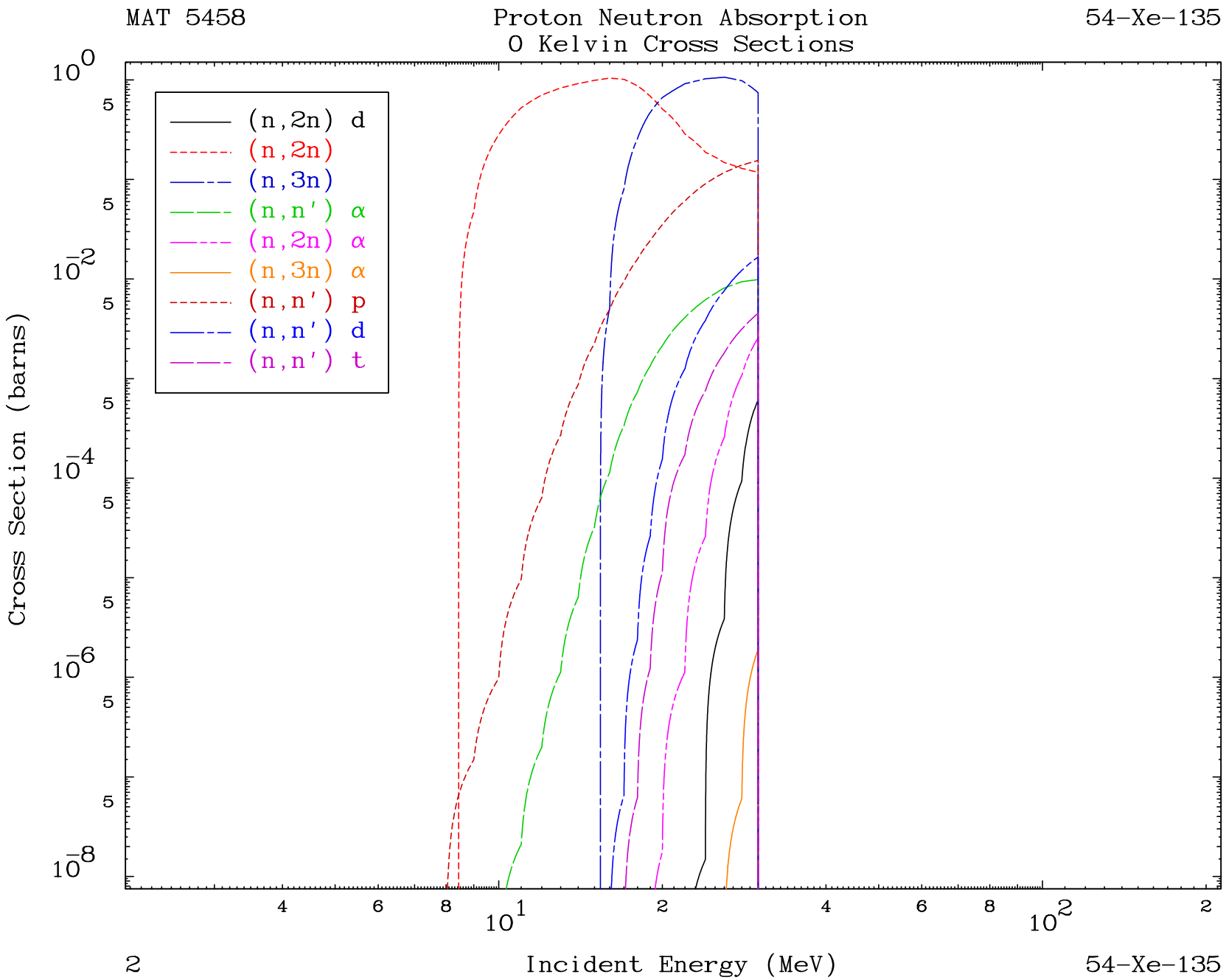
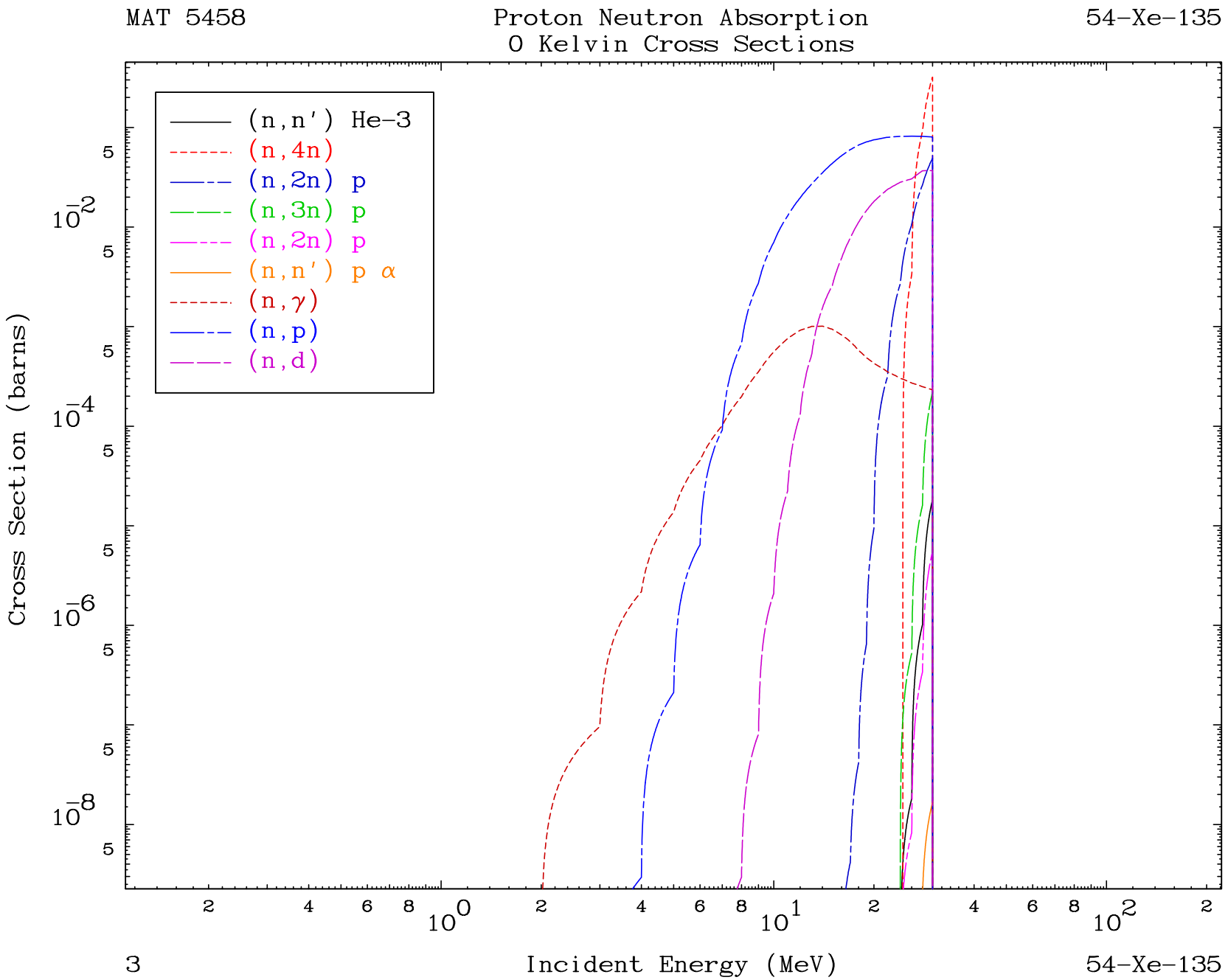
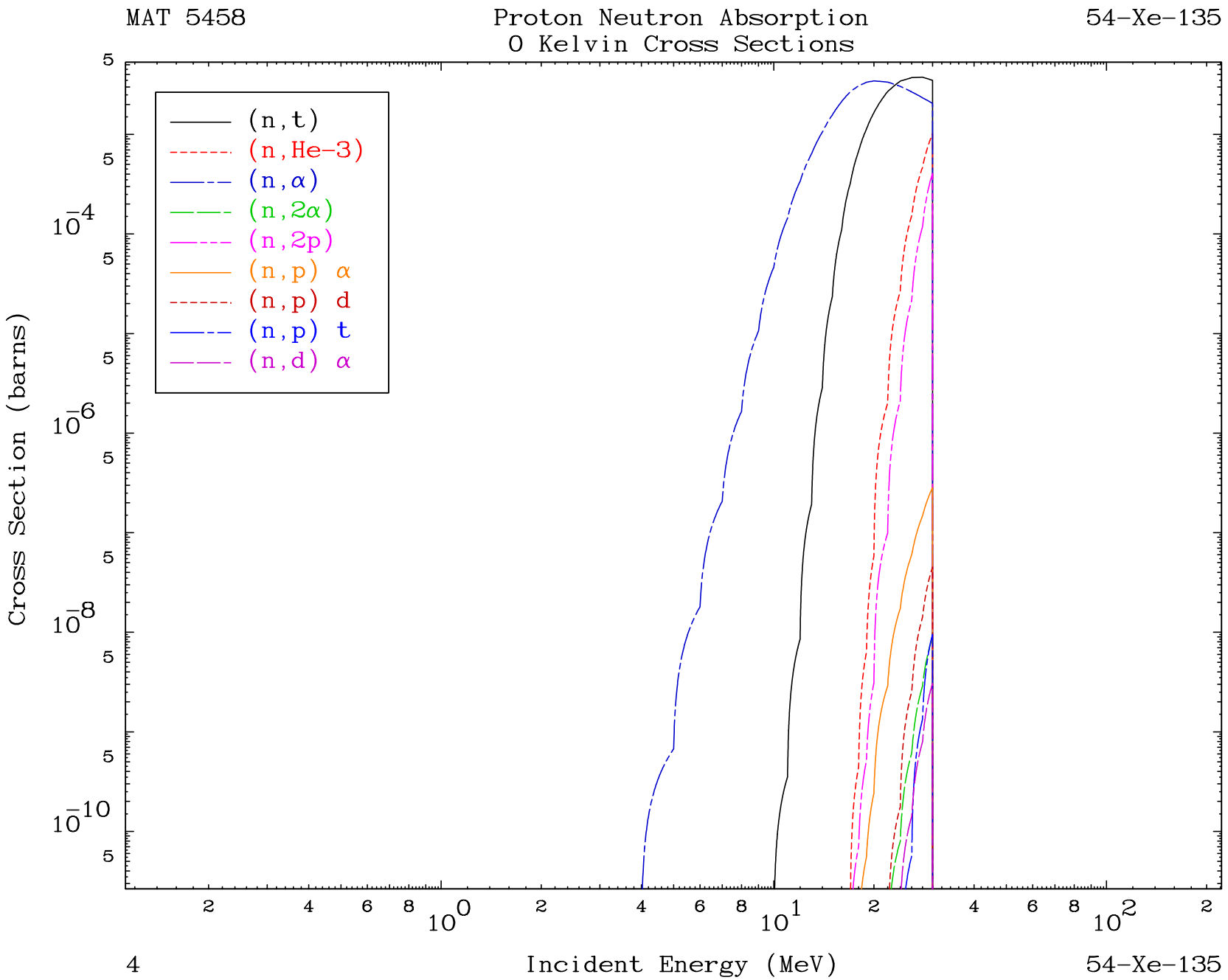
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

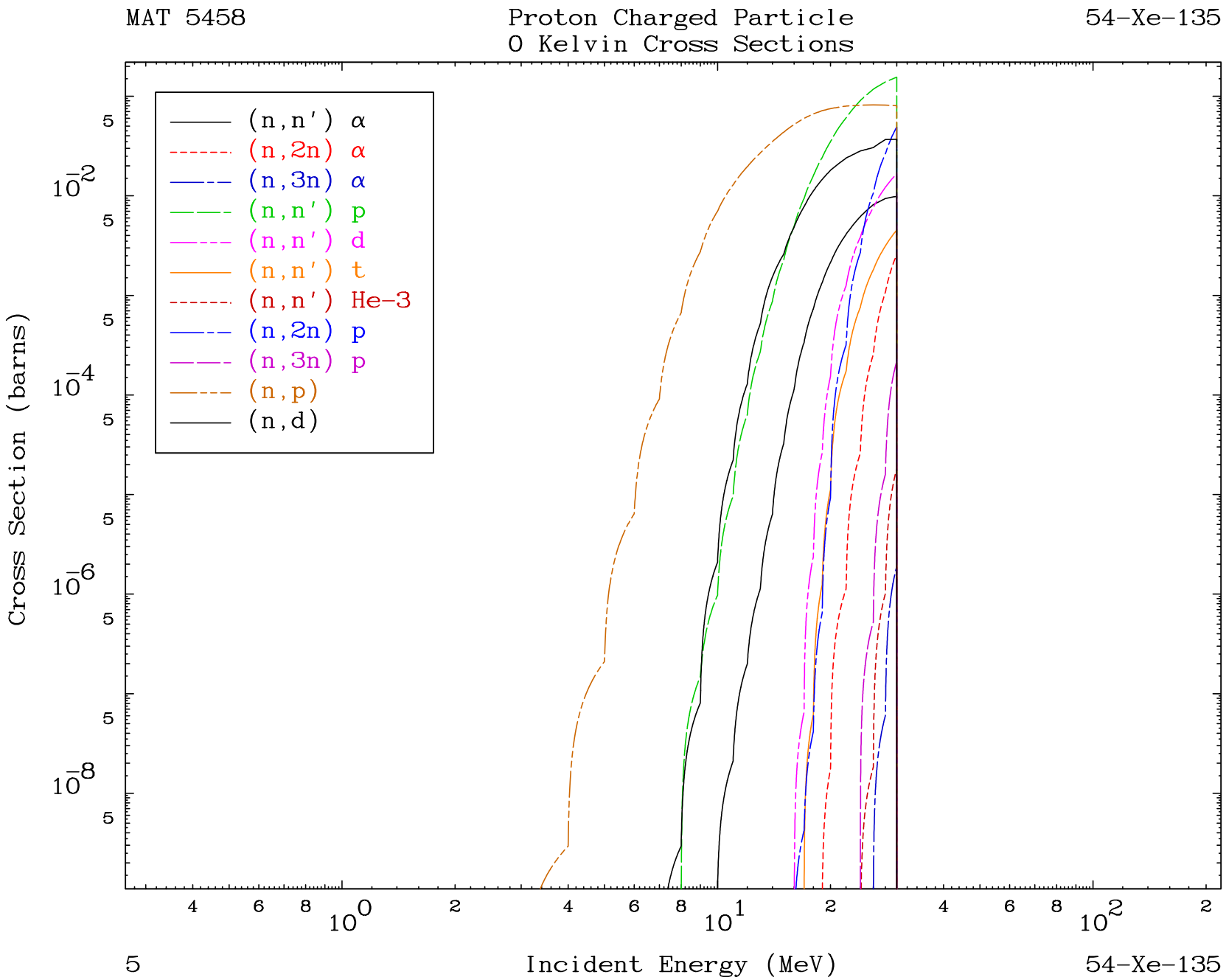
Press Mouse Button to Start

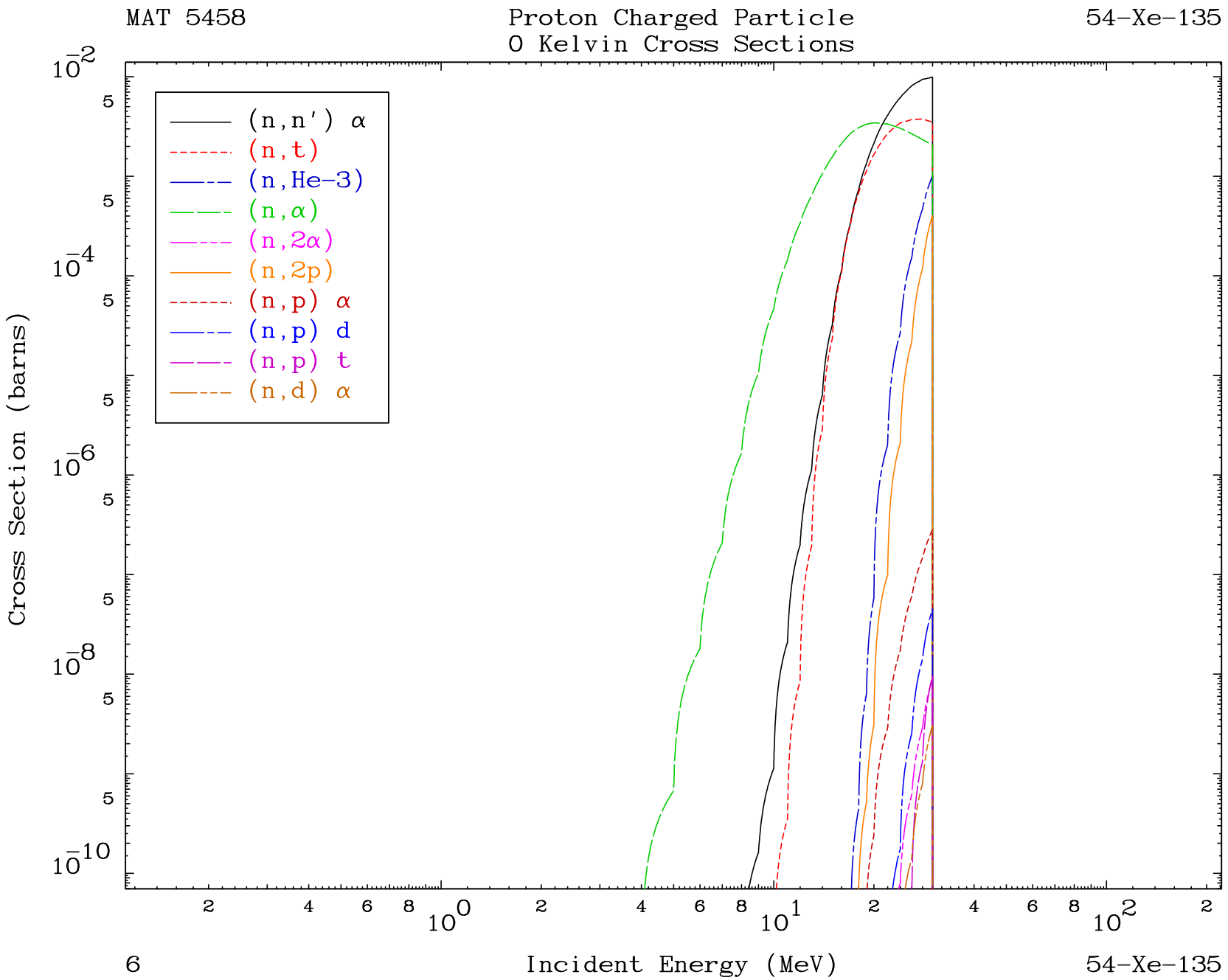

MAT 5458
Proton Major
54-Xe-135
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
54-Xe-135

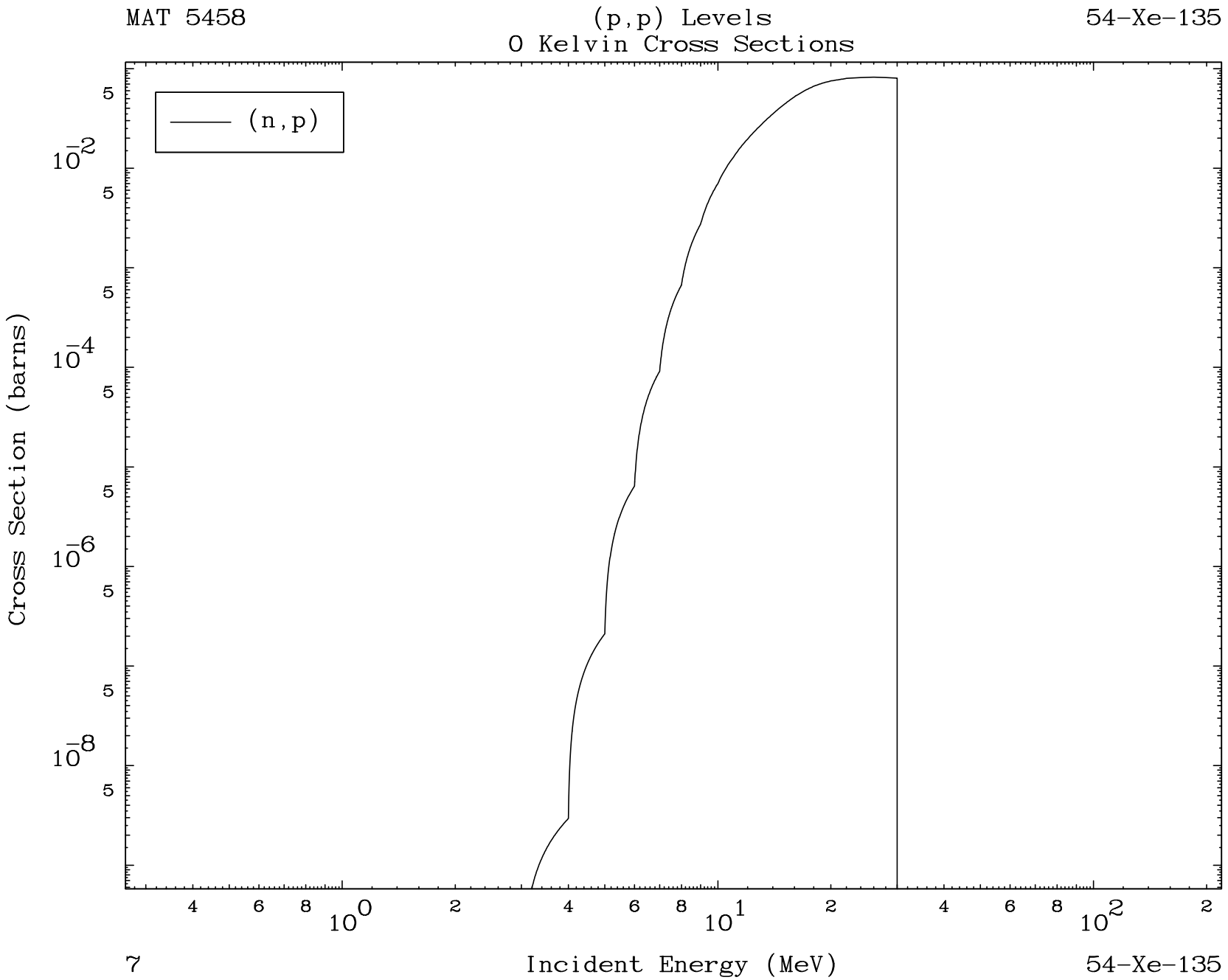

MAT 5458
Proton Neutron Absorption
0 Kelvin Cross Sections
54-Xe-135
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
54-Xe-135

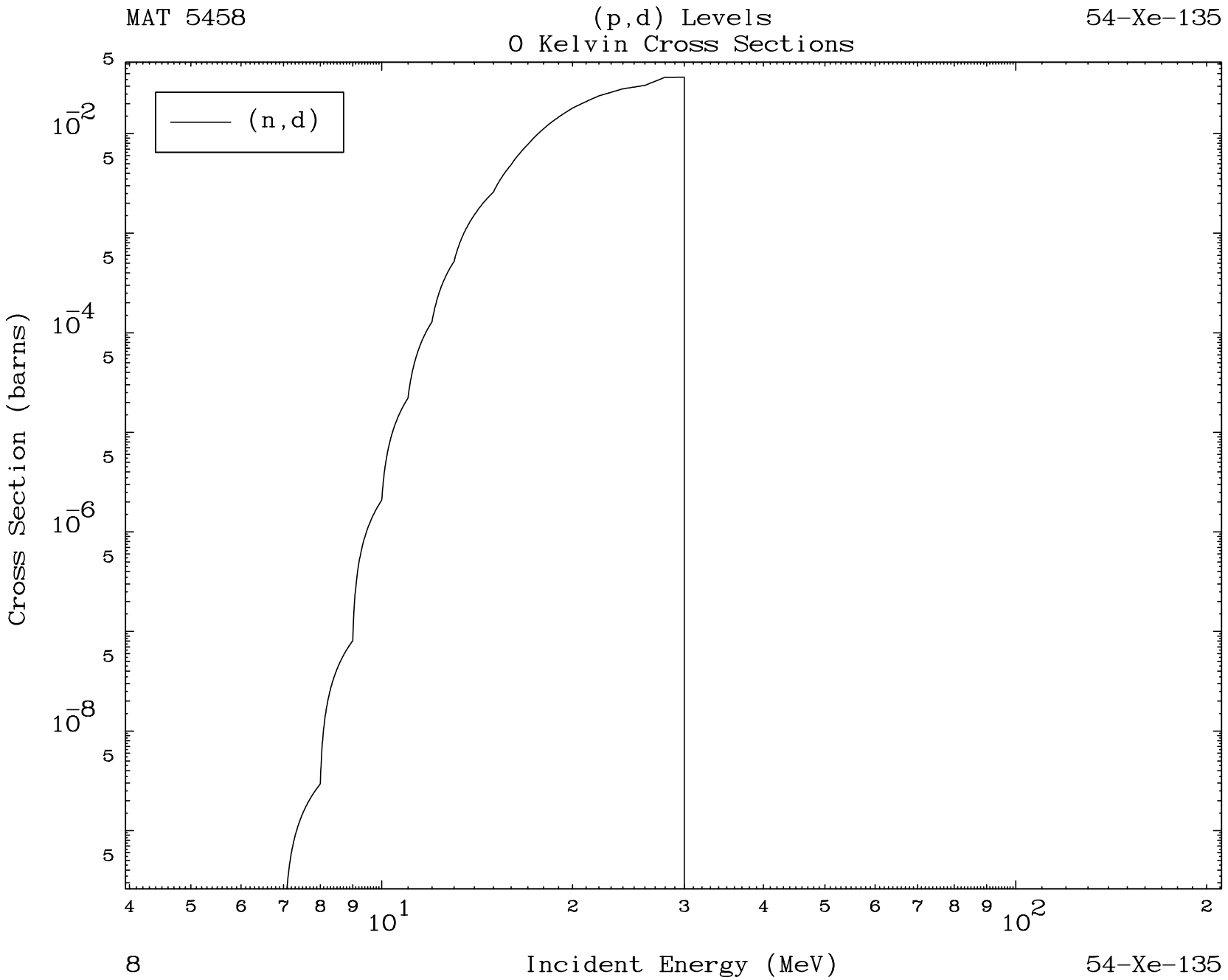

MAT 5458
Proton Neutron Absorption
0 Kelvin Cross Sections
54-Xe-135
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
3
54-Xe-135

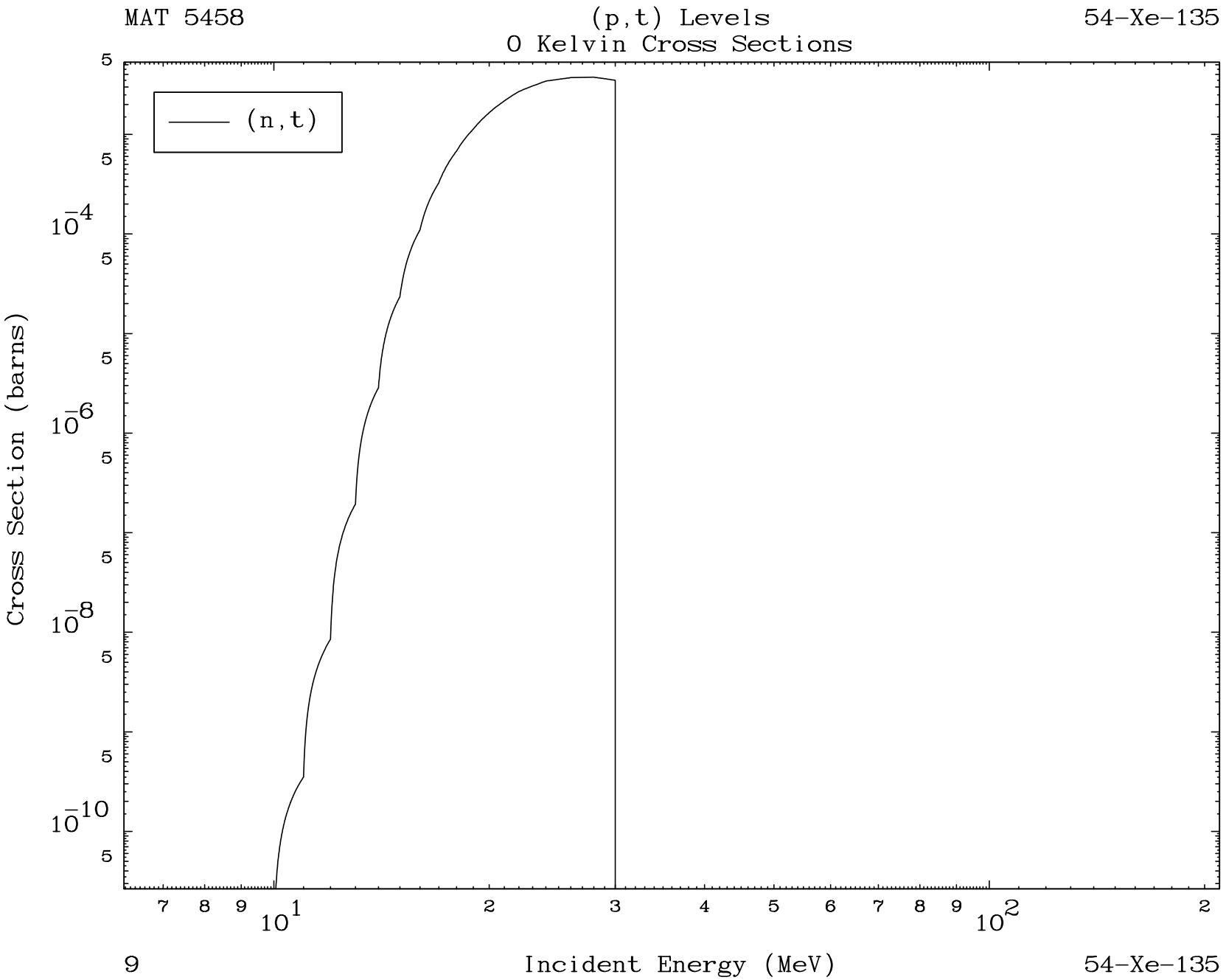

MAT 5458
Proton Neutron Absorption
0 Kelvin Cross Sections
54-Xe-135
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
54-Xe-135

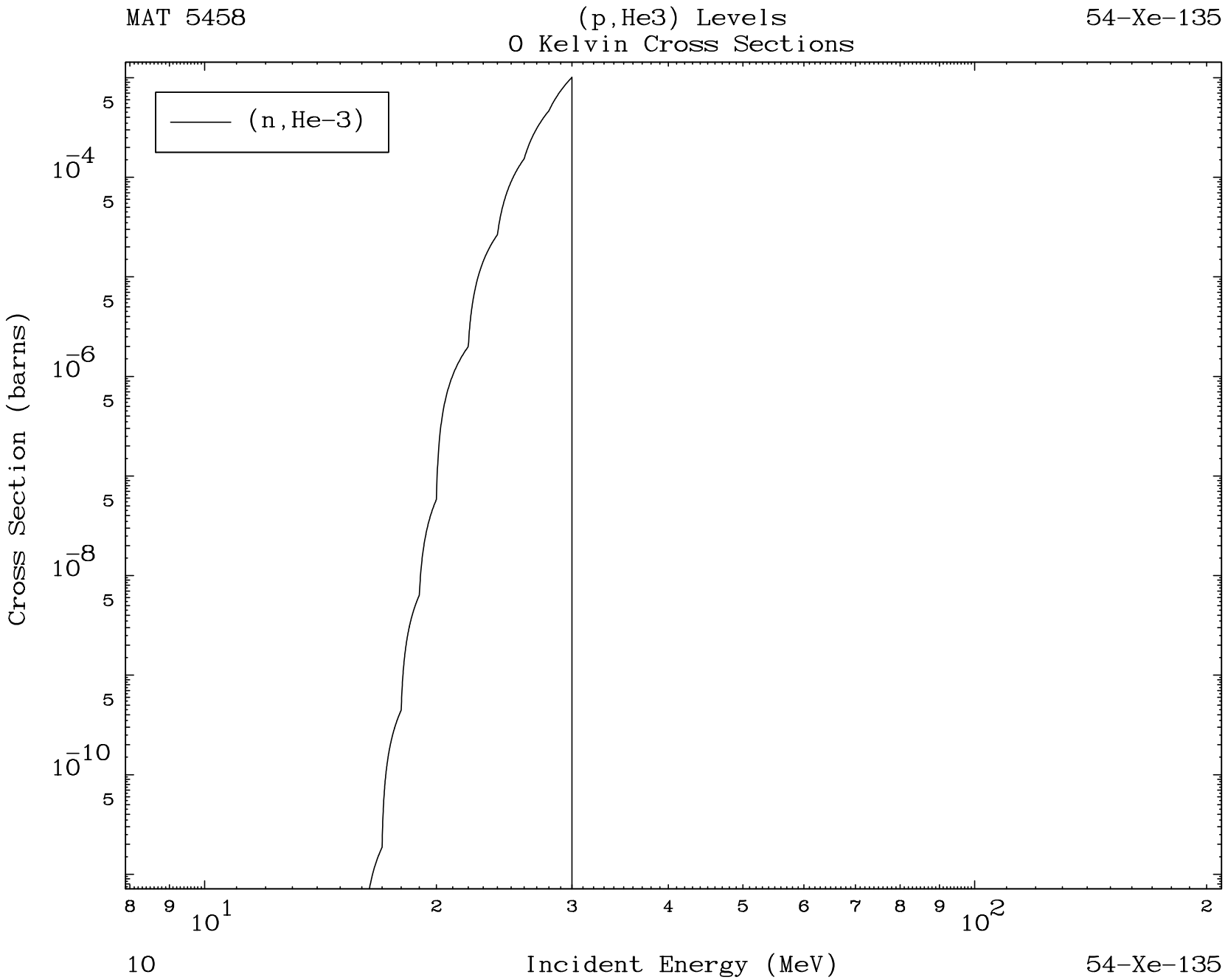

MAT 5458
Proton Charged Particle
0 Kelvin Cross Sections
54-Xe-135
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
54-Xe-135
5

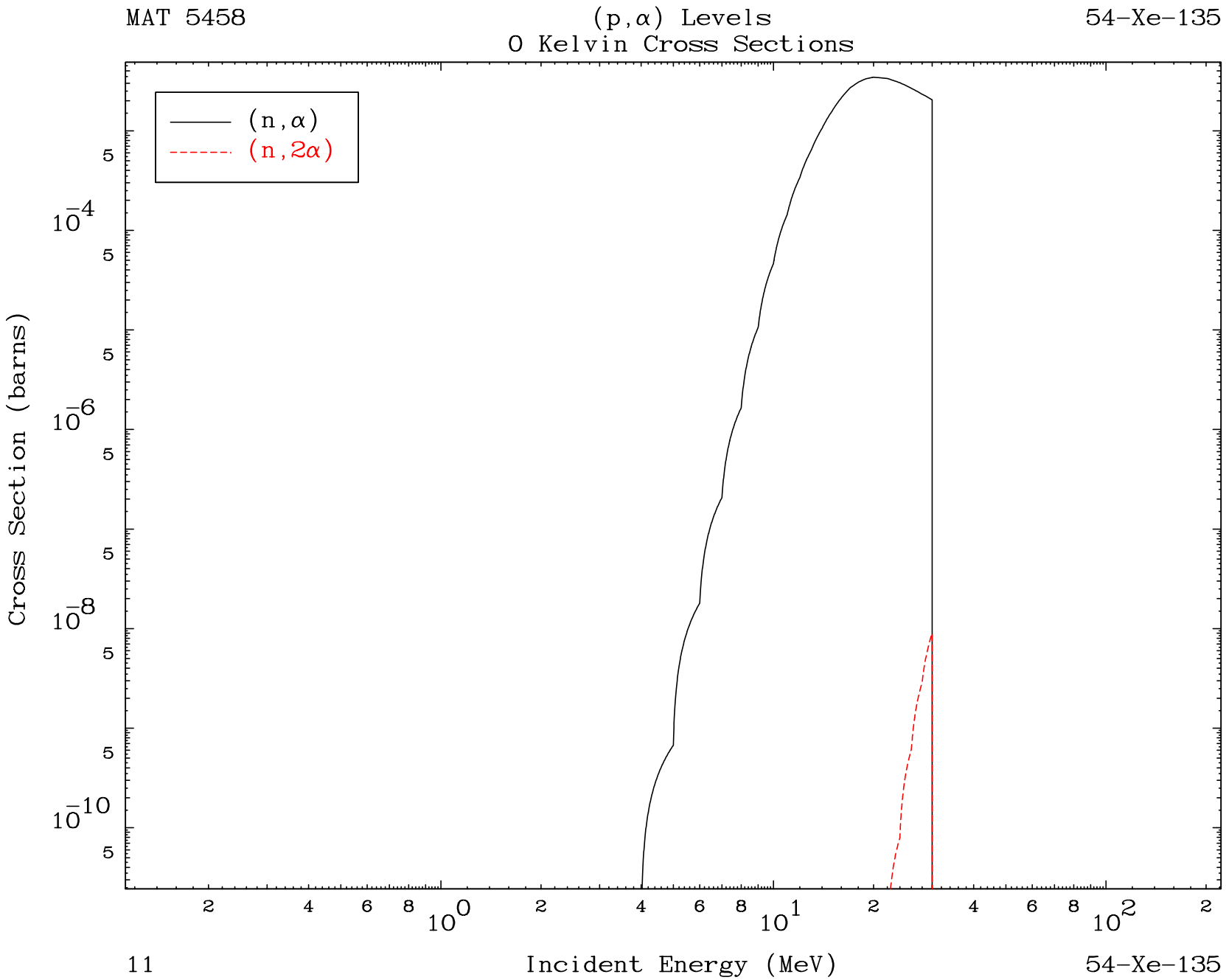

MAT 5458
Proton Charged Particle
0 Kelvin Cross Sections
54-Xe-135
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
54-Xe-135

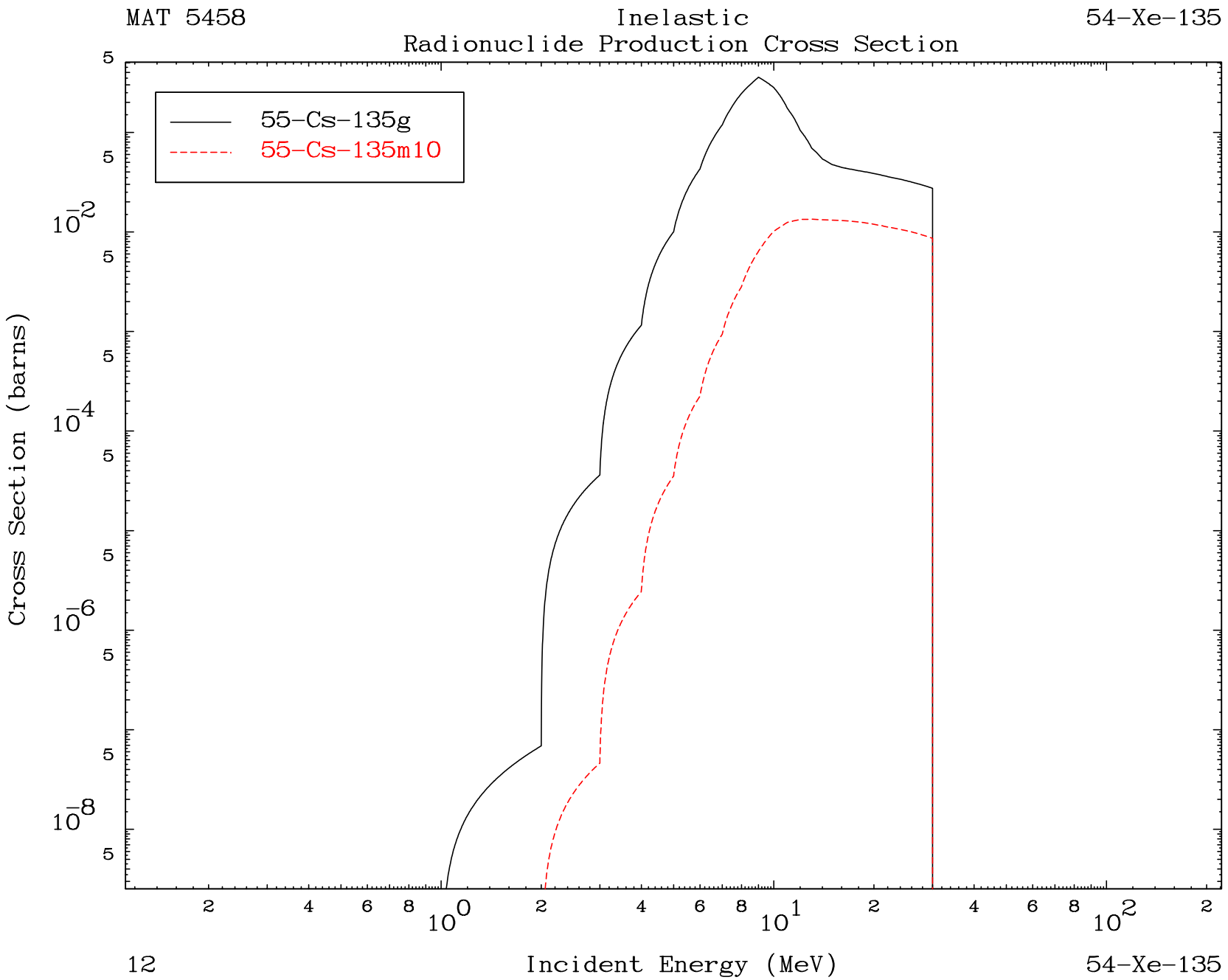

MAT 5458
(p,p) Levels
54-Xe-135
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
54-Xe-135

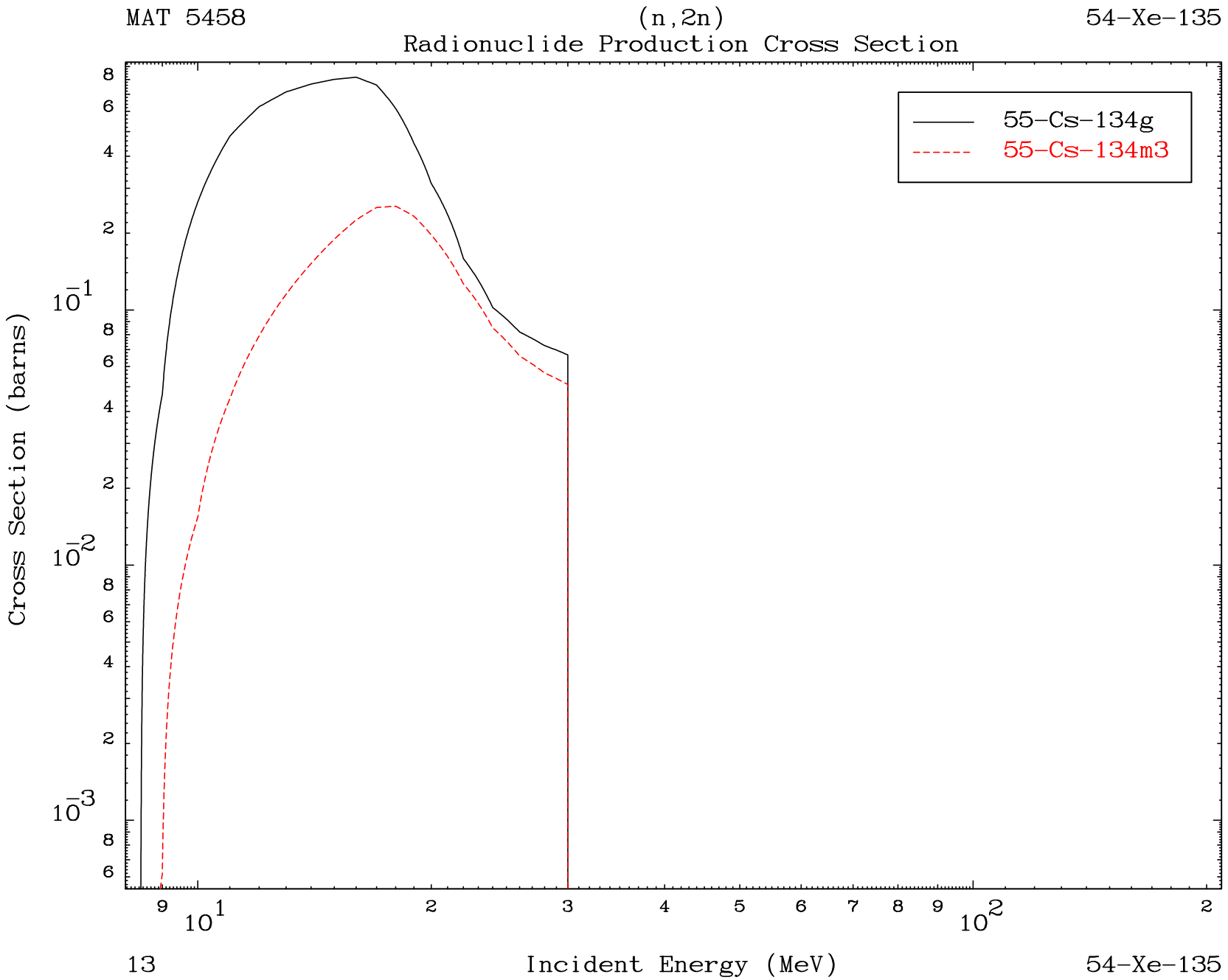

MAT 5458
(p,d) Levels
54-Xe-135
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
54-Xe-135

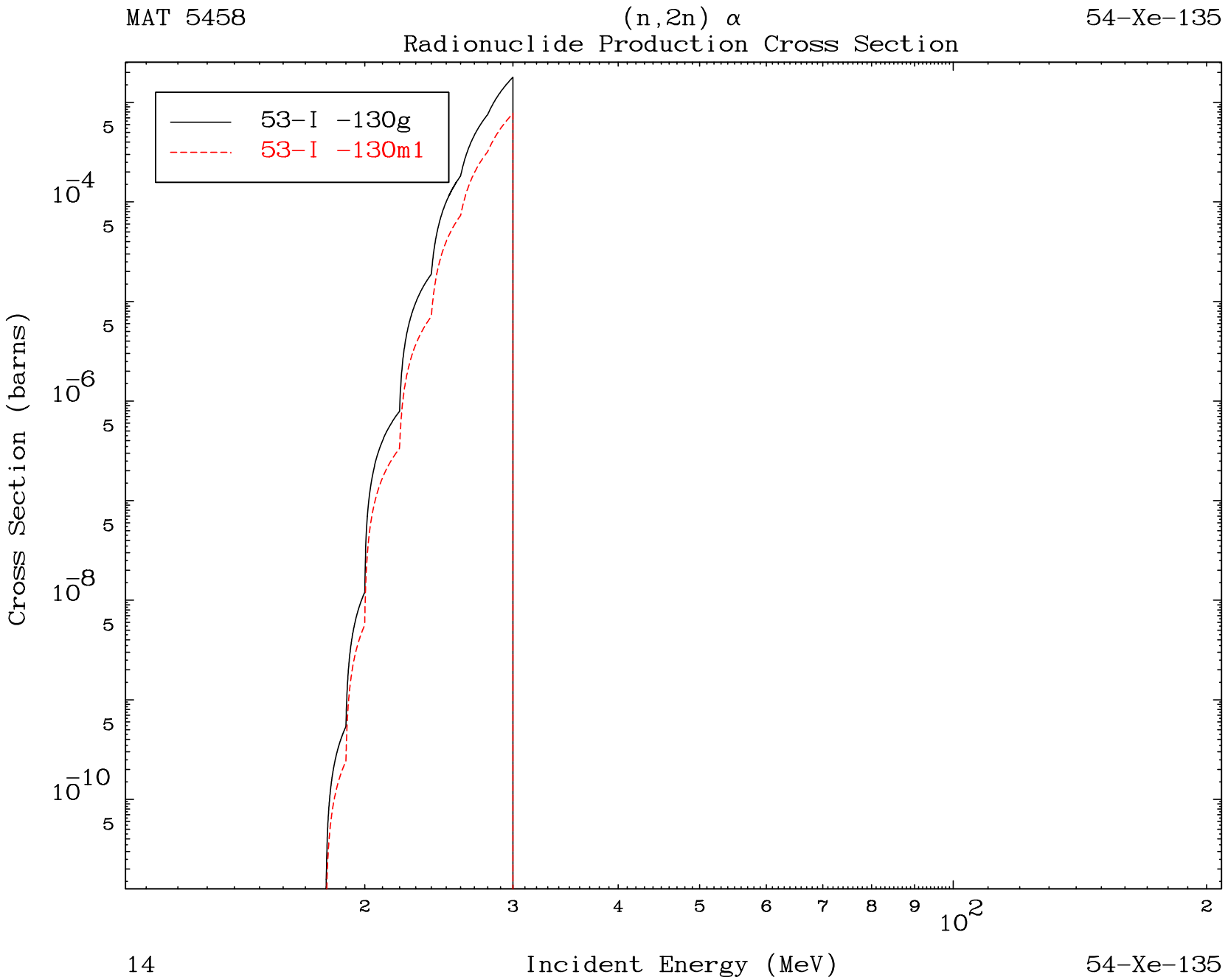

MAT 5458
(p,t) Levels
54-Xe-135
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
9
54-Xe-135

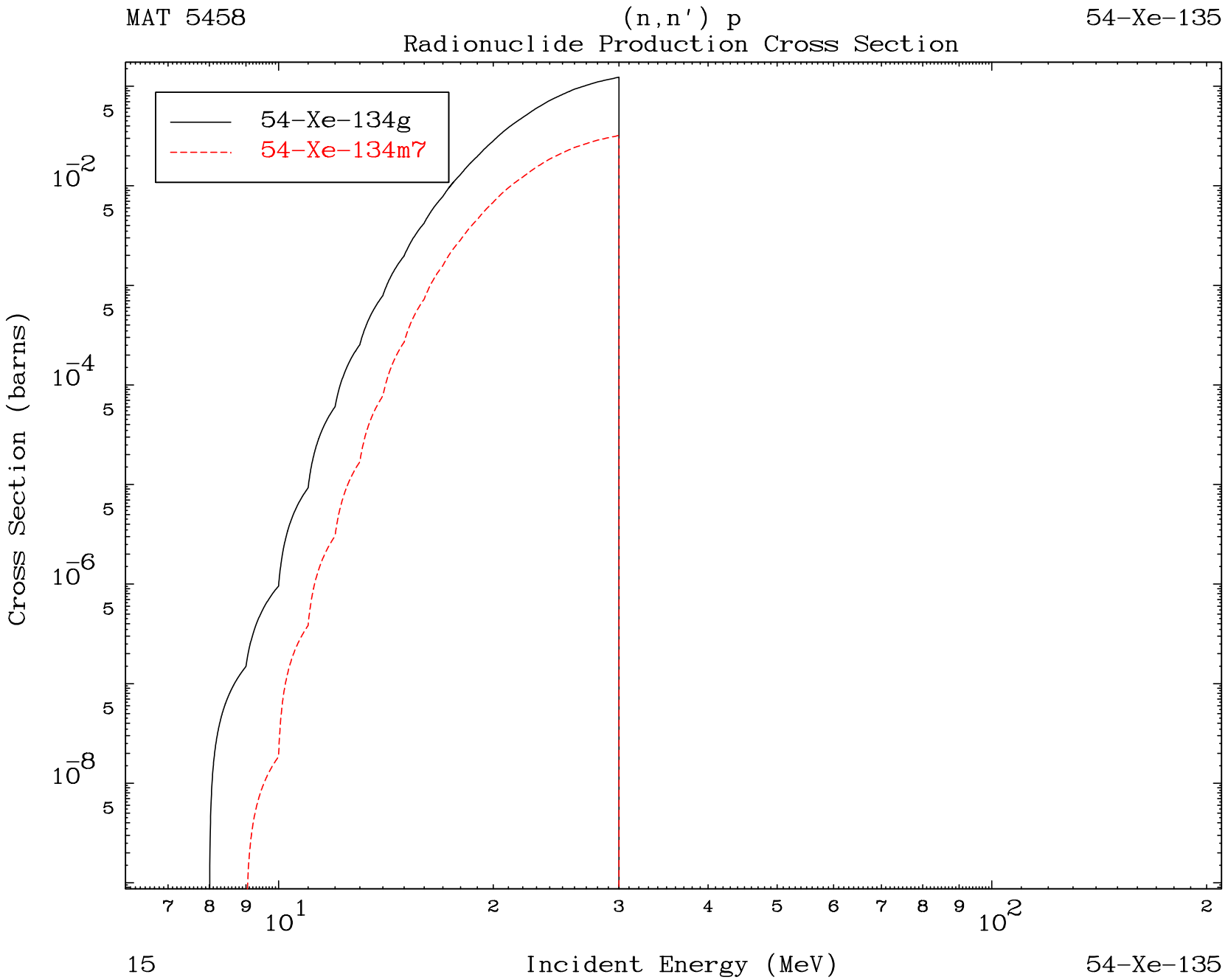

MAT 5458
(p,He3) Levels
54-Xe-135
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10
10^1
10^2
54-Xe-135

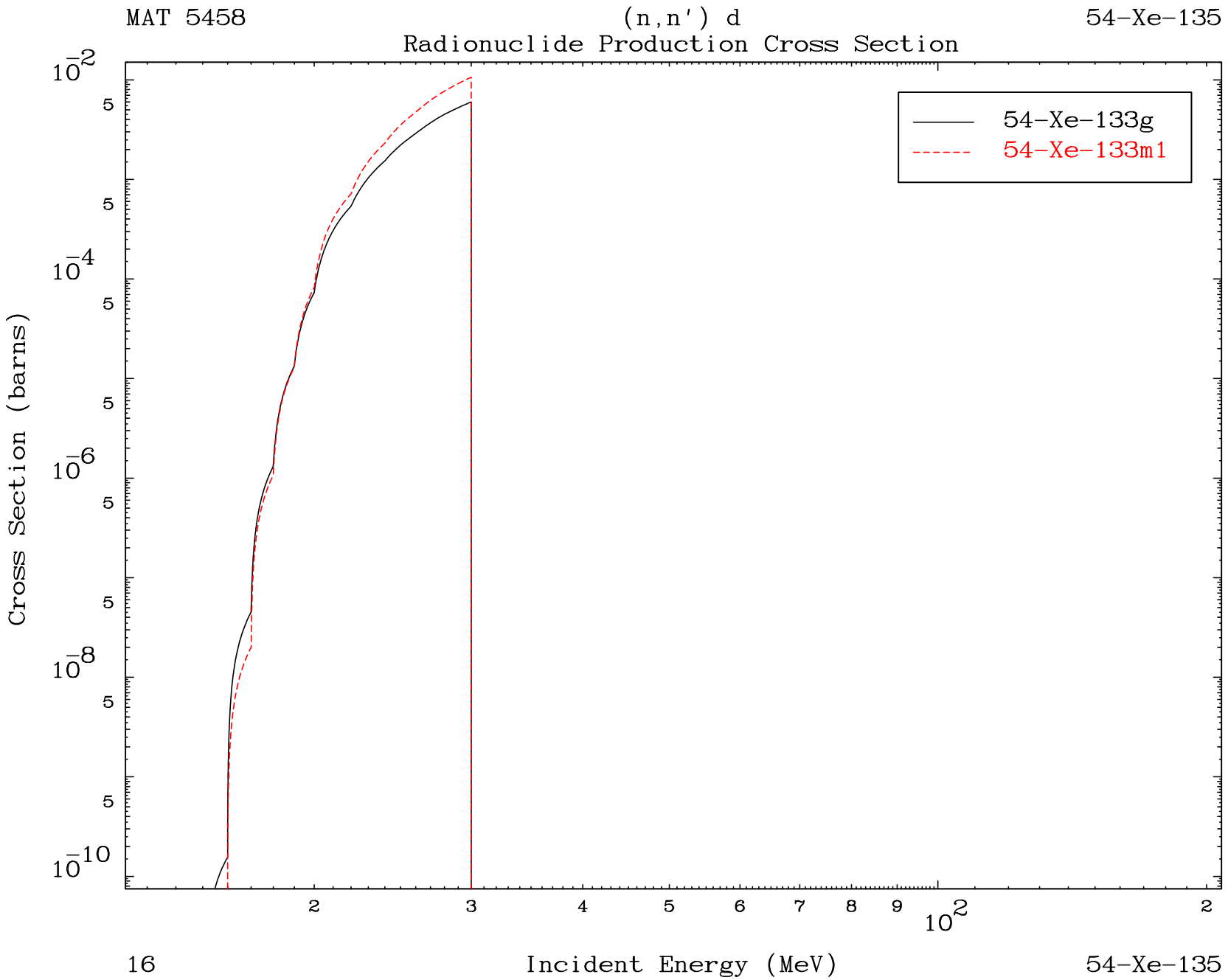

MAT 5458
(p,α) Levels
54-Xe-135
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
11
54-Xe-135

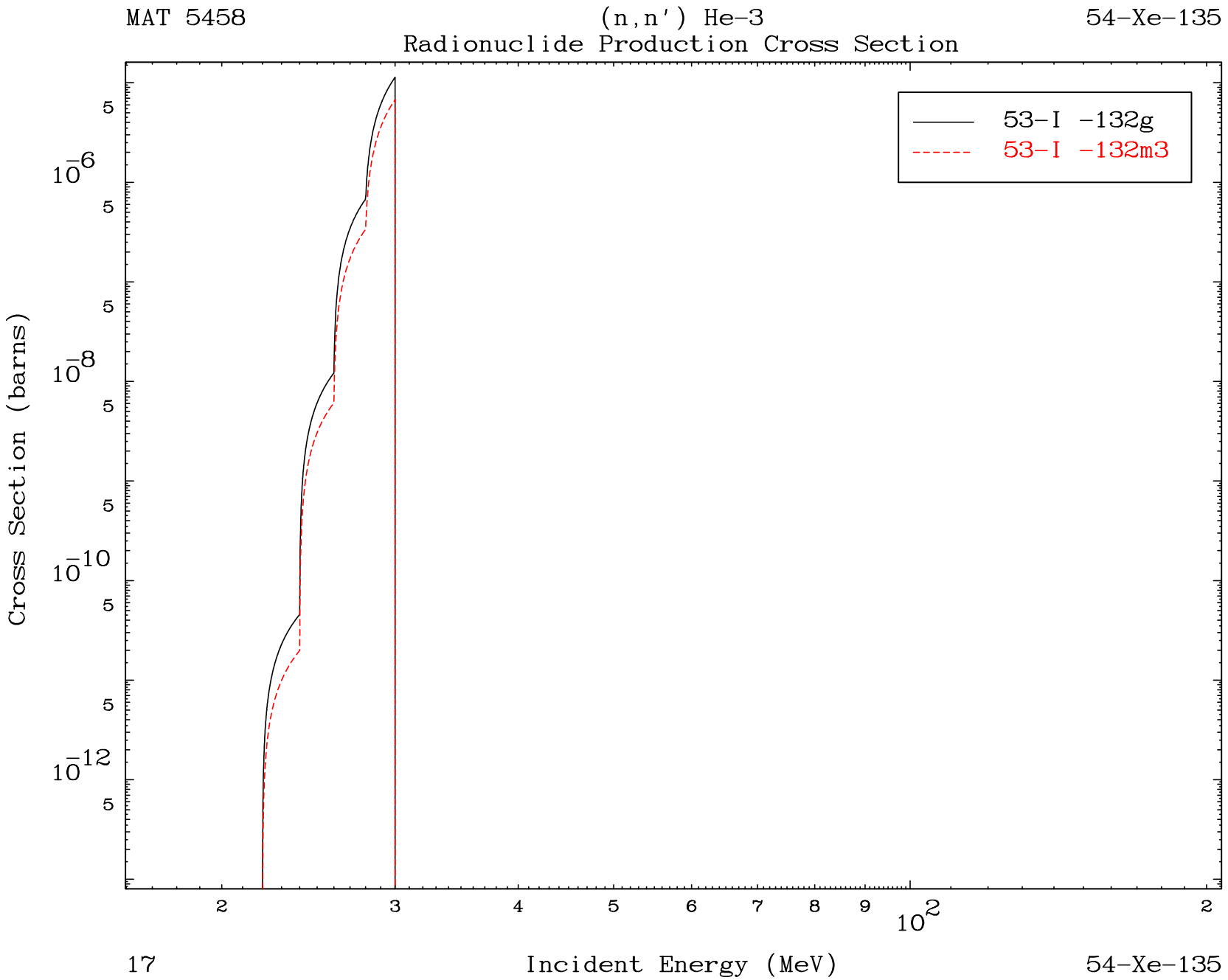

MAT 5458
Inelastic
54-Xe-135
Radionuclide Production Cross Section
55-Cs-135g
55-Cs-135m10
Cross Section (barns)
Incident Energy (MeV)
12
54-Xe-135

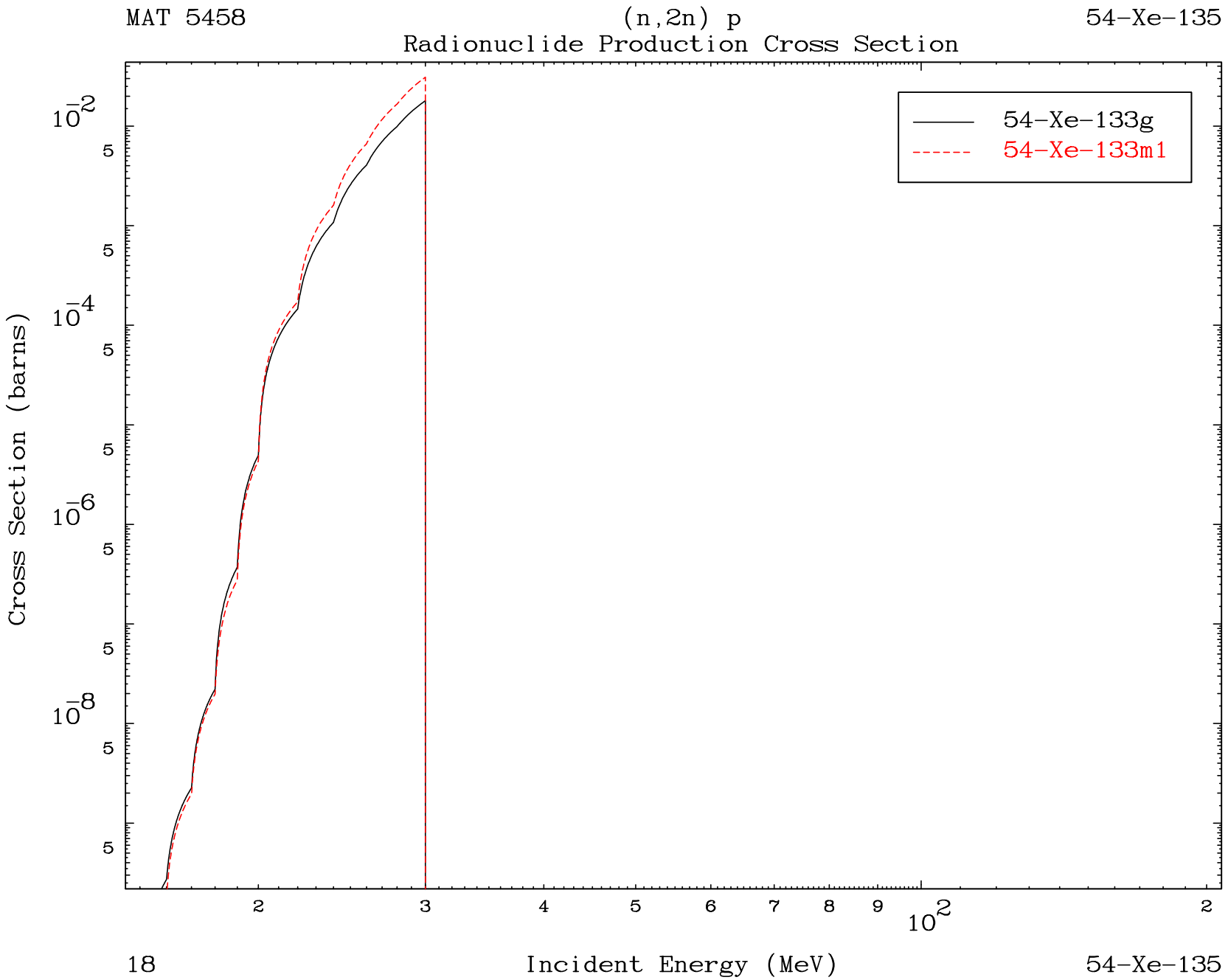

MAT 5458
(n,2n)
54-Xe-135
Radionuclide Production Cross Section
55-Cs-134g
55-Cs-134m3
Cross Section (barns)
Incident Energy (MeV)
13
54-Xe-135

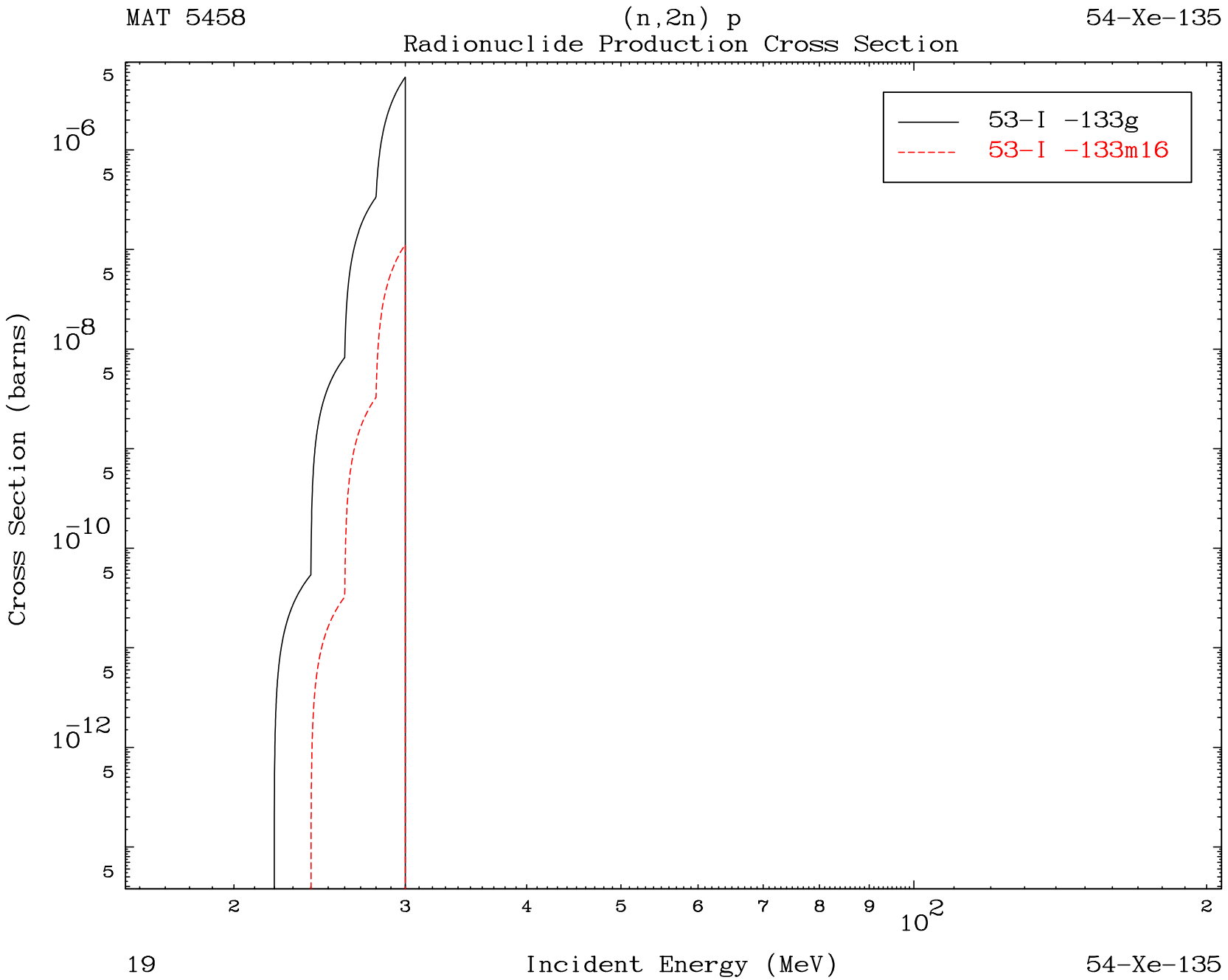

MAT 5458
(n,2n) α
54-Xe-135
Radionuclide Production Cross Section
53-I -130g
53-I -130m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
54-Xe-135

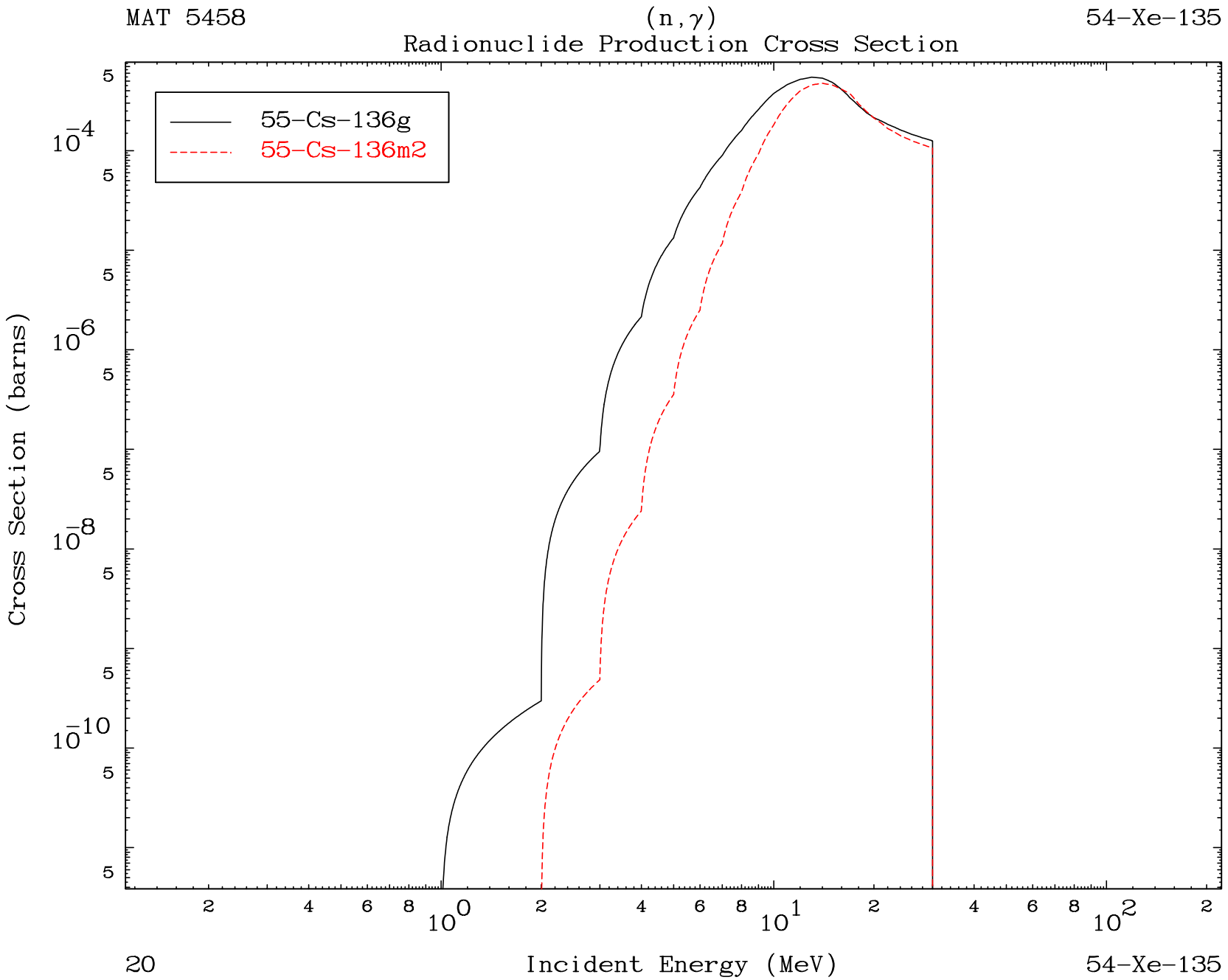

MAT 5458
(n,n') p
54-Xe-135
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10-2
10-4
10-6
10-8
5
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
15
Incident Energy (MeV)
54-Xe-135

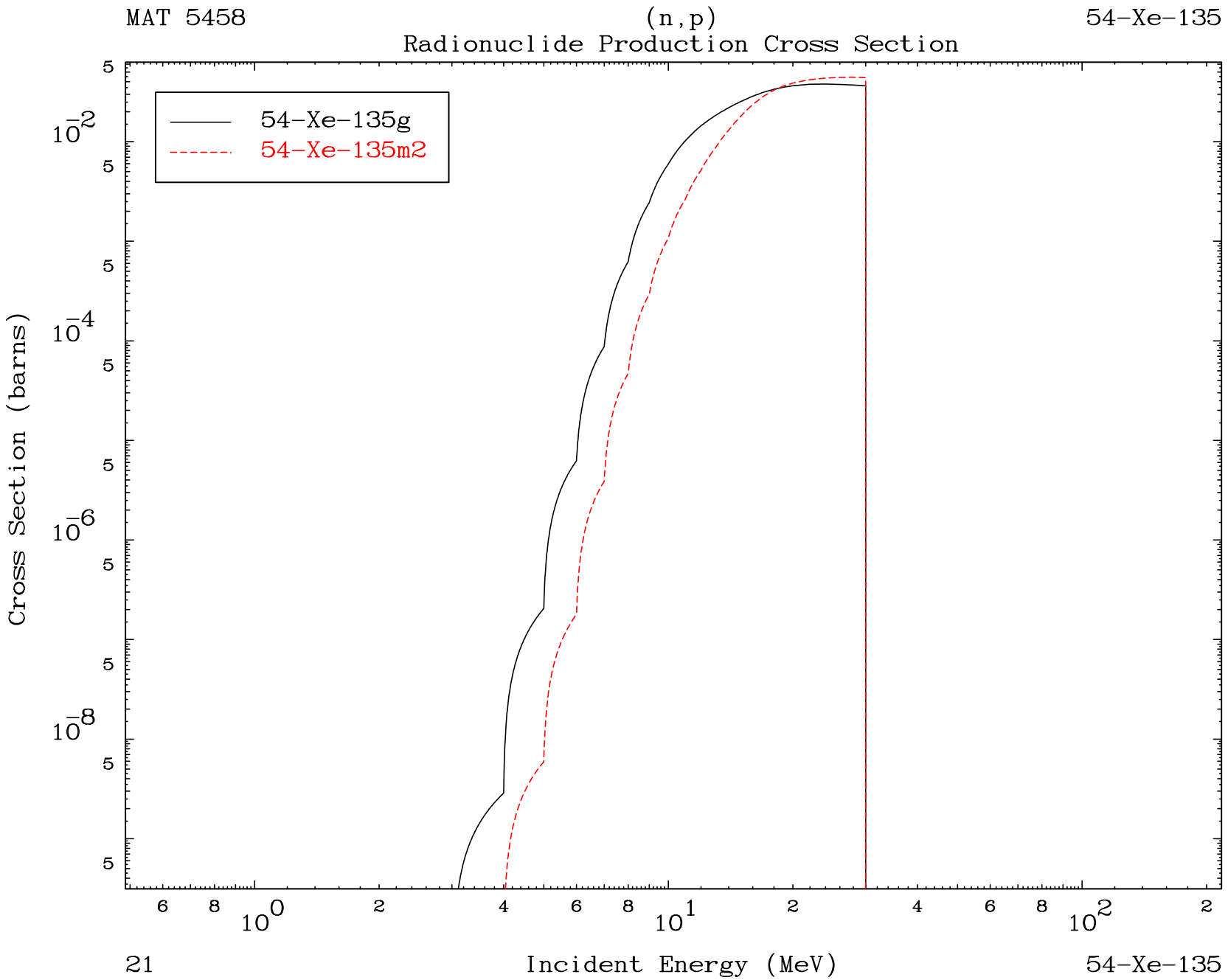

MAT 5458
(n,n') d
54-Xe-135
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
Incident Energy (MeV)
16
54-Xe-135

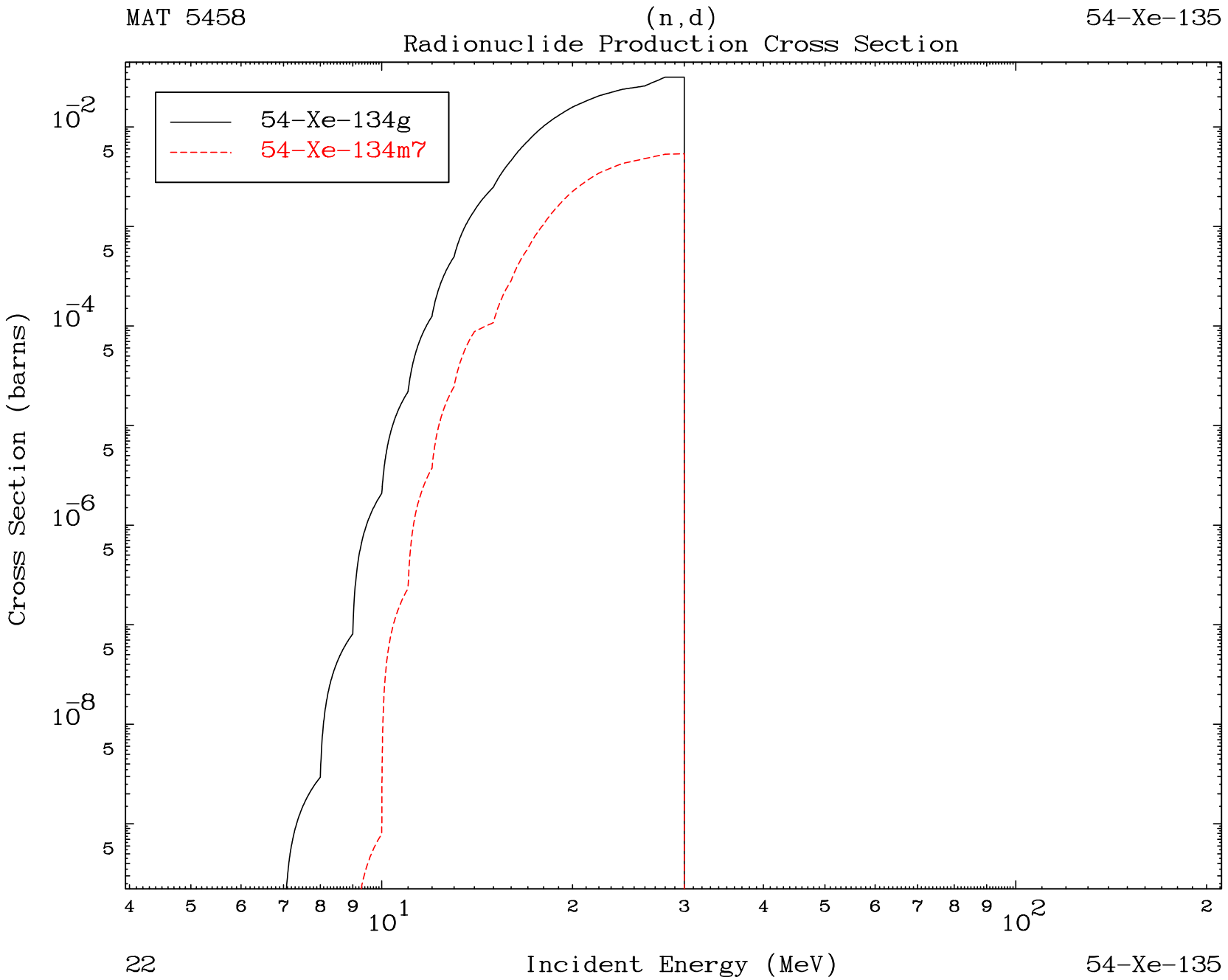

MAT 5458
(n,n') He-3
54-Xe-135
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
54-Xe-135

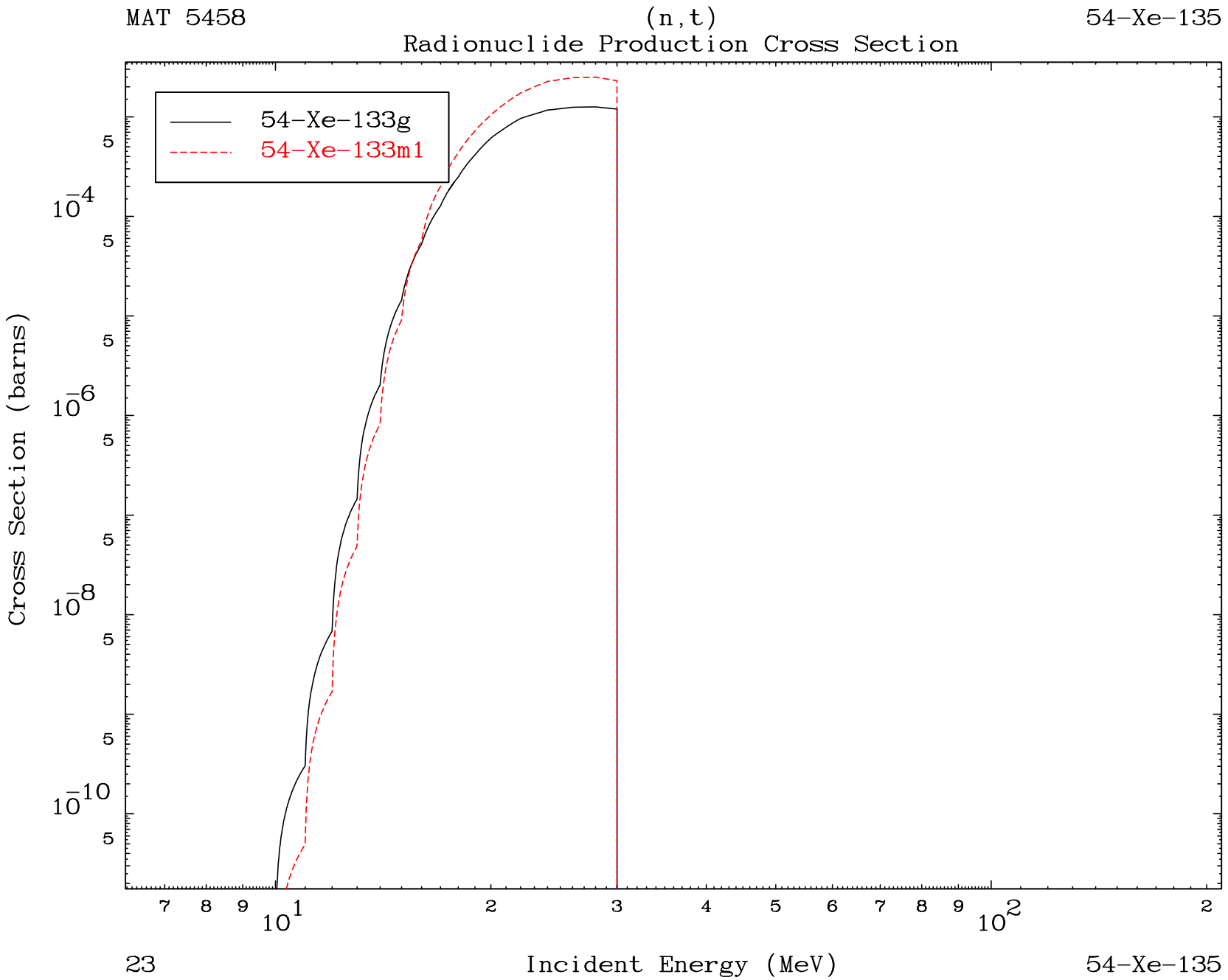

MAT 5458
(n,2n) p
54-Xe-135
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
54-Xe-135

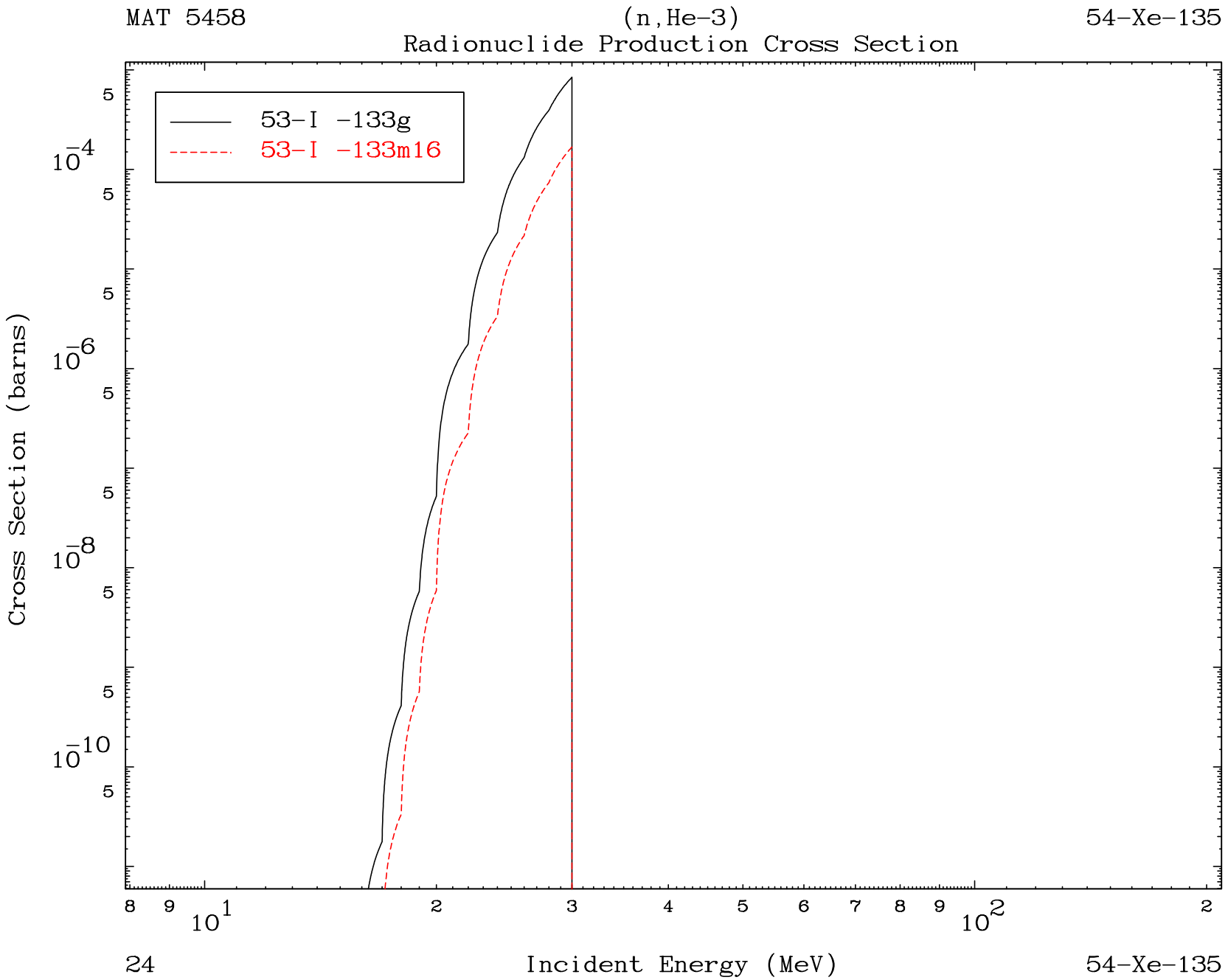

MAT 5458
(n,2n) p
54-Xe-135
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
54-Xe-135

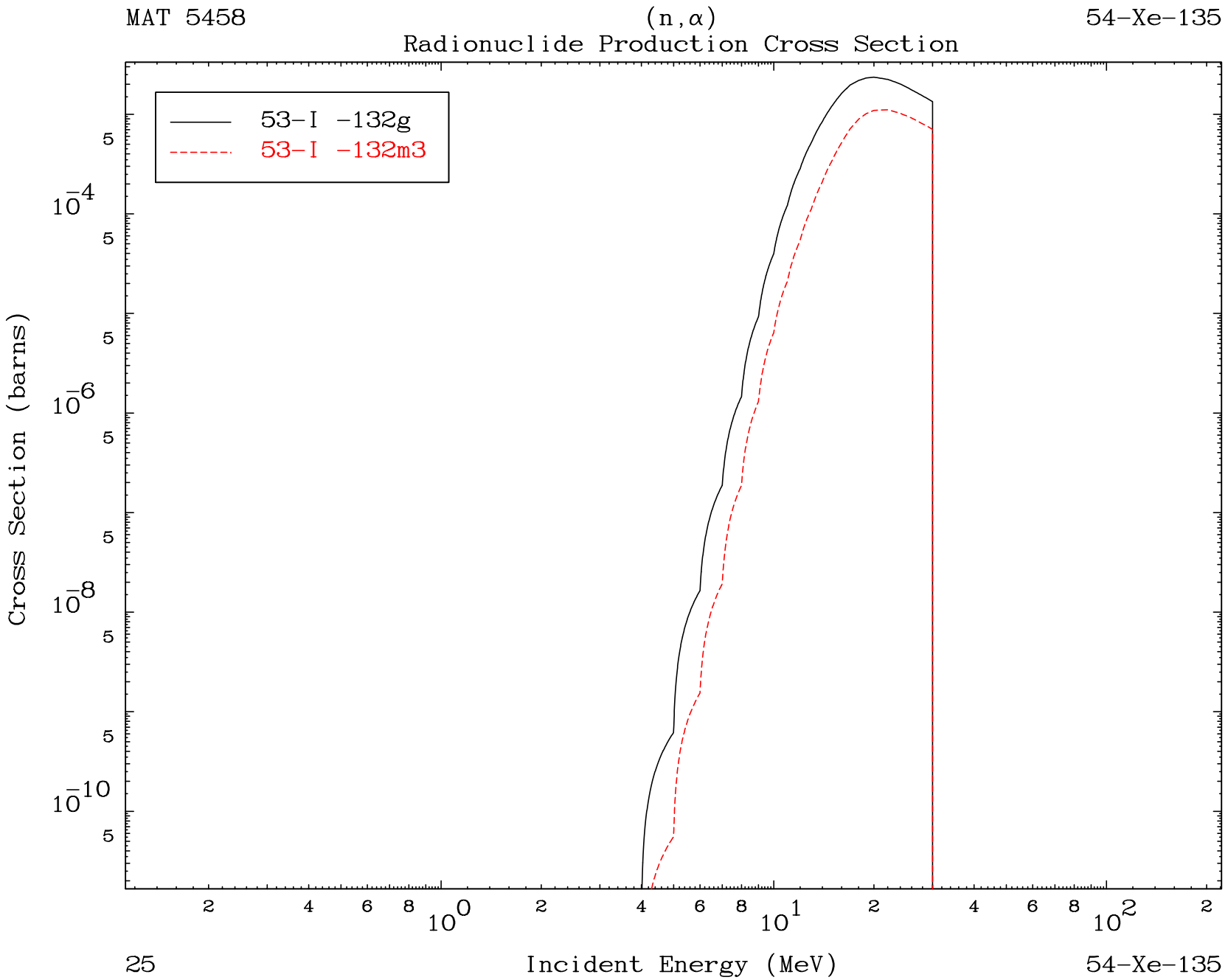

MAT 5458
(n,γ)
54-Xe-135
Radionuclide Production Cross Section
55-Cs-136g
55-Cs-136m2
Cross Section (barns)
Incident Energy (MeV)
20
54-Xe-135

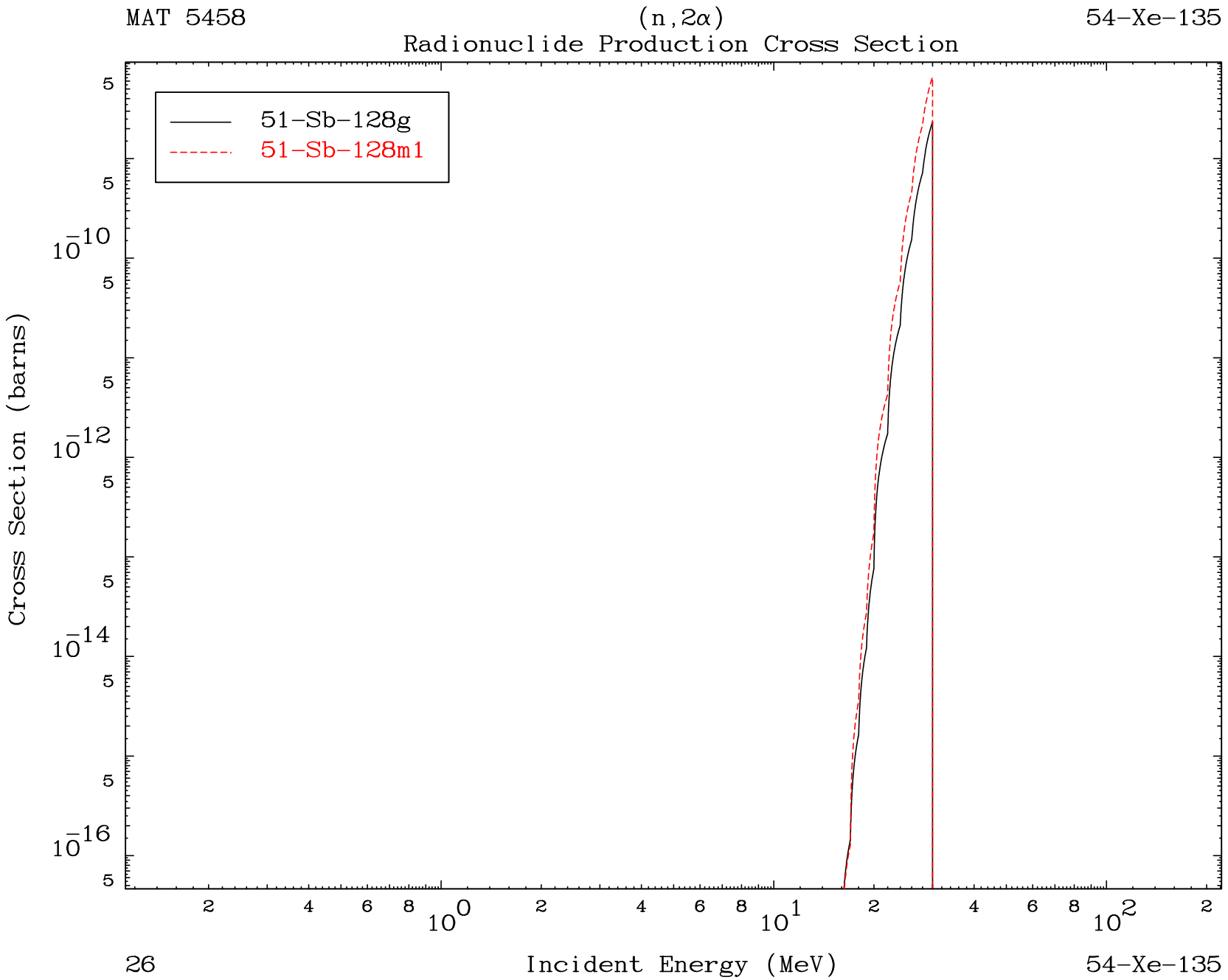

MAT 5458
(n,p)
54-Xe-135
Radionuclide Production Cross Section
54-Xe-135g
54-Xe-135m2
Cross Section (barns)
Incident Energy (MeV)
21
54-Xe-135

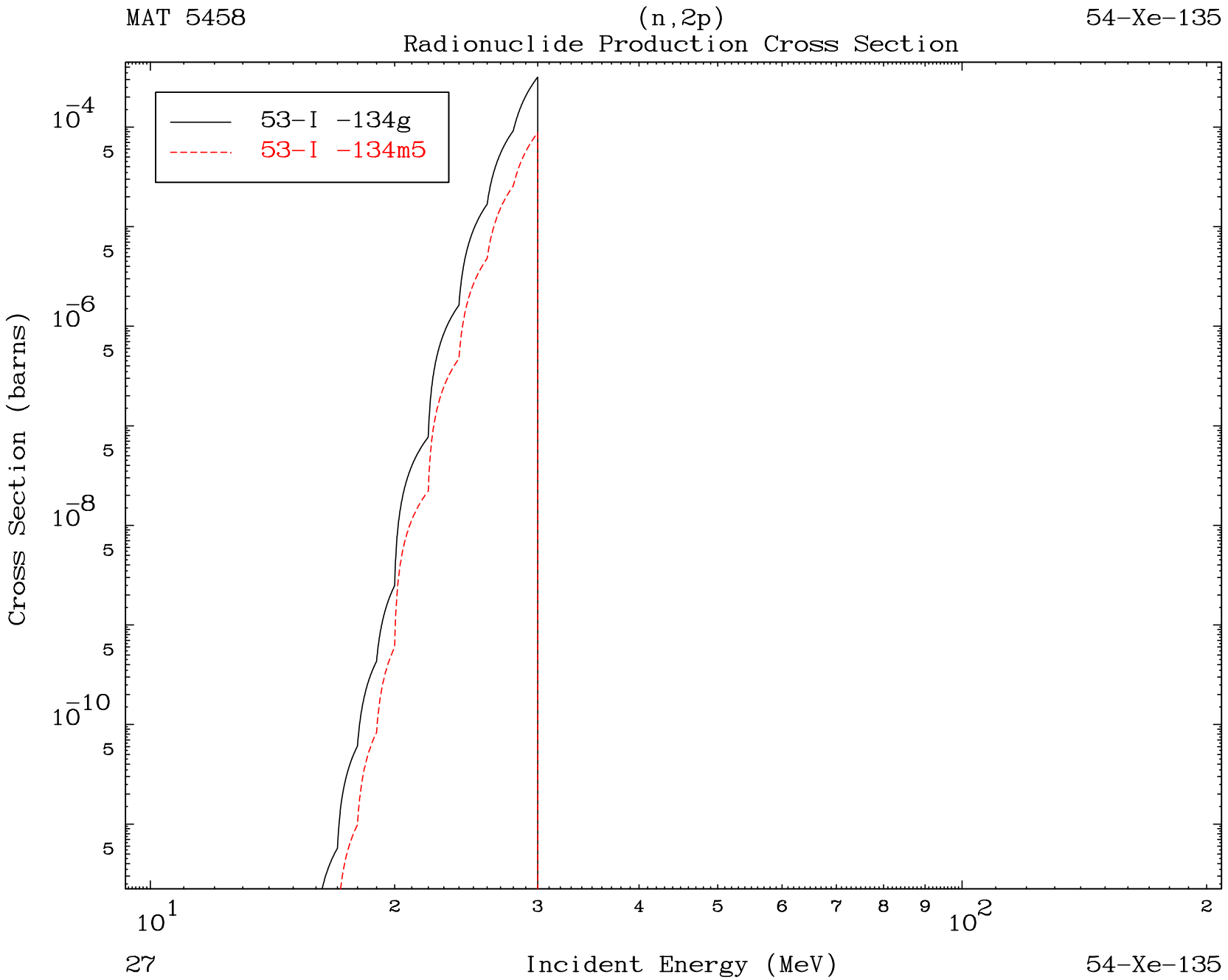

MAT 5458
(n,d)
54-Xe-135
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10-2
10-4
10-6
10-8
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
22
54-Xe-135

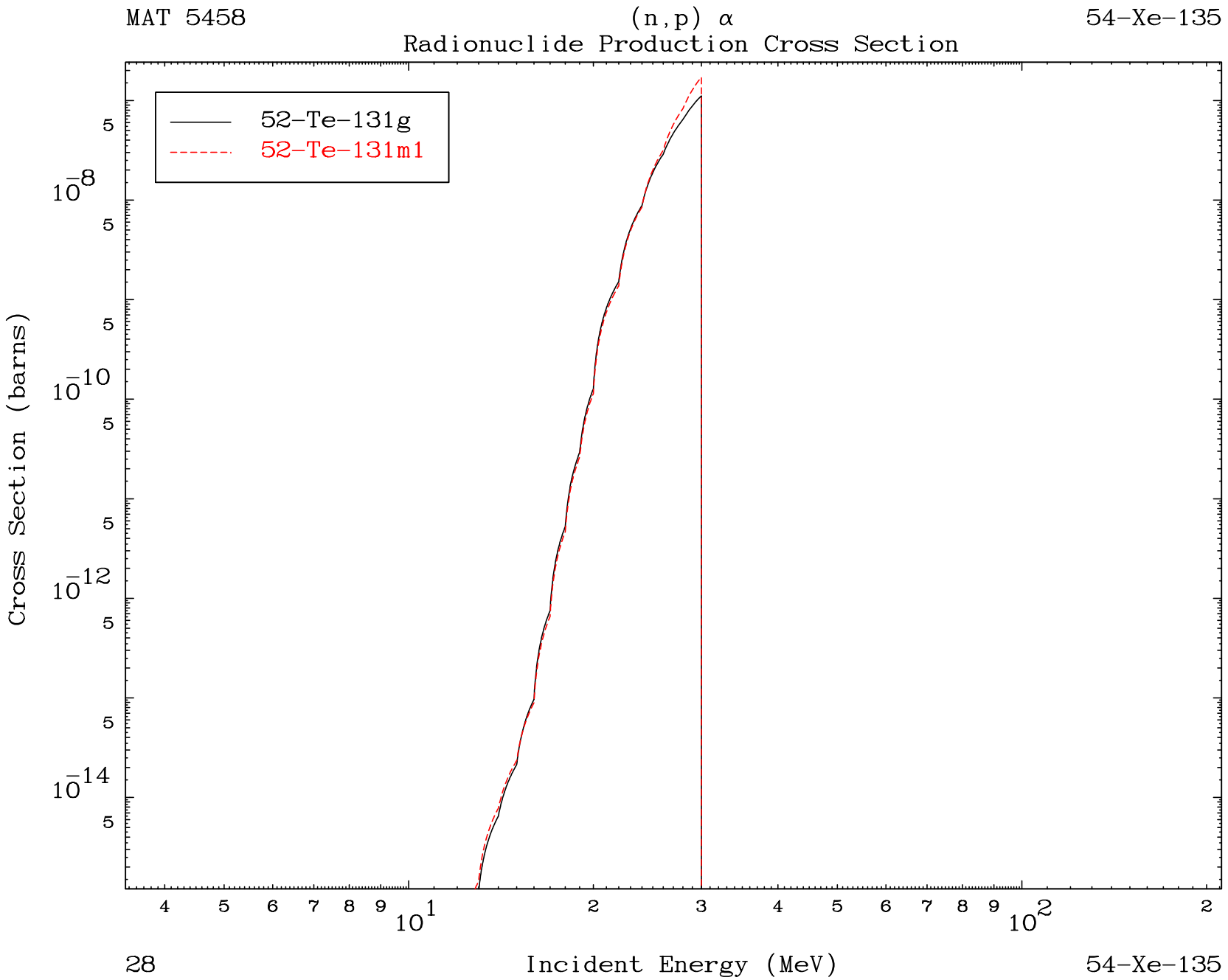

MAT 5458
(n,t)
54-Xe-135
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
23
54-Xe-135

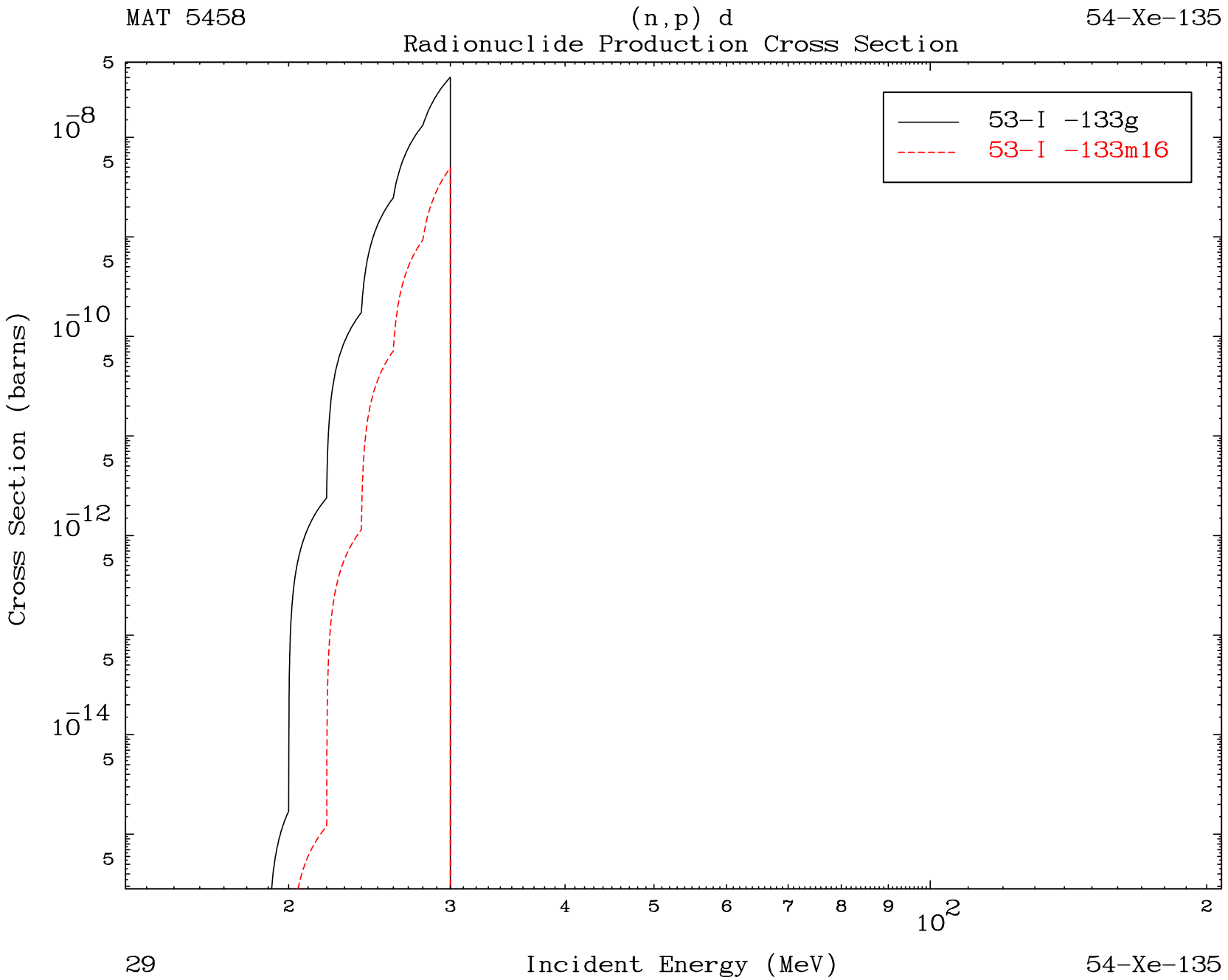

MAT 5458
(n,He-3)
54-Xe-135
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
Incident Energy (MeV)
24
54-Xe-135

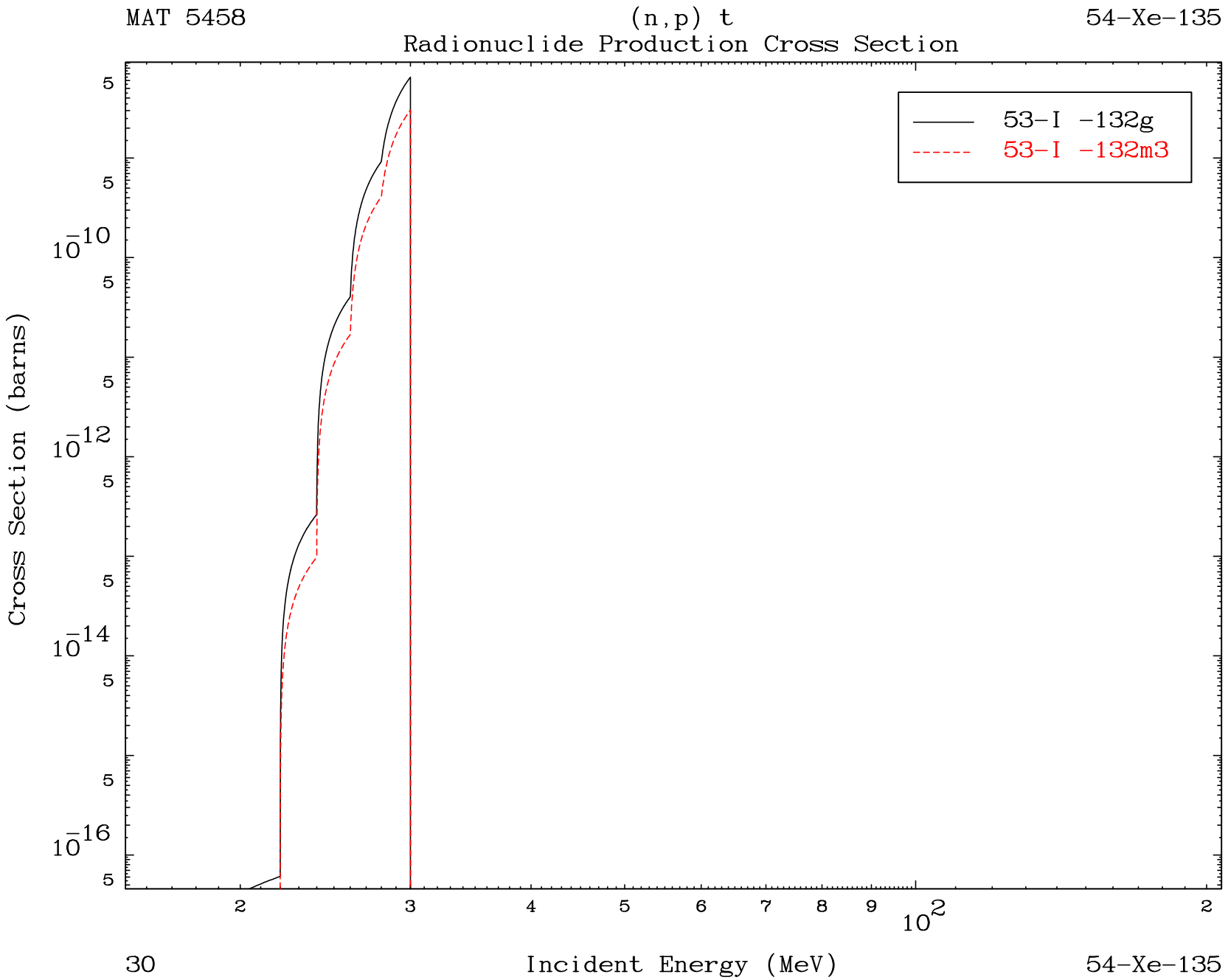

MAT 5458
(n,α)
54-Xe-135
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
25
54-Xe-135


MAT 5458
(n,2α)
54-Xe-135
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
10^0
10^1
10^2
26
Incident Energy (MeV)
54-Xe-135


MAT 5458
(n,2p)
54-Xe-135
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
27
Incident Energy (MeV)
54-Xe-135


MAT 5458
(n,p) α
54-Xe-135
Radionuclide Production Cross Section
52-Te-131g
52-Te-131m1
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)
54-Xe-135


MAT 5458
(n,p) d
54-Xe-135
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
Incident Energy (MeV)
29
54-Xe-135


MAT 5458
(n,p) t
54-Xe-135
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
30
54-Xe-135