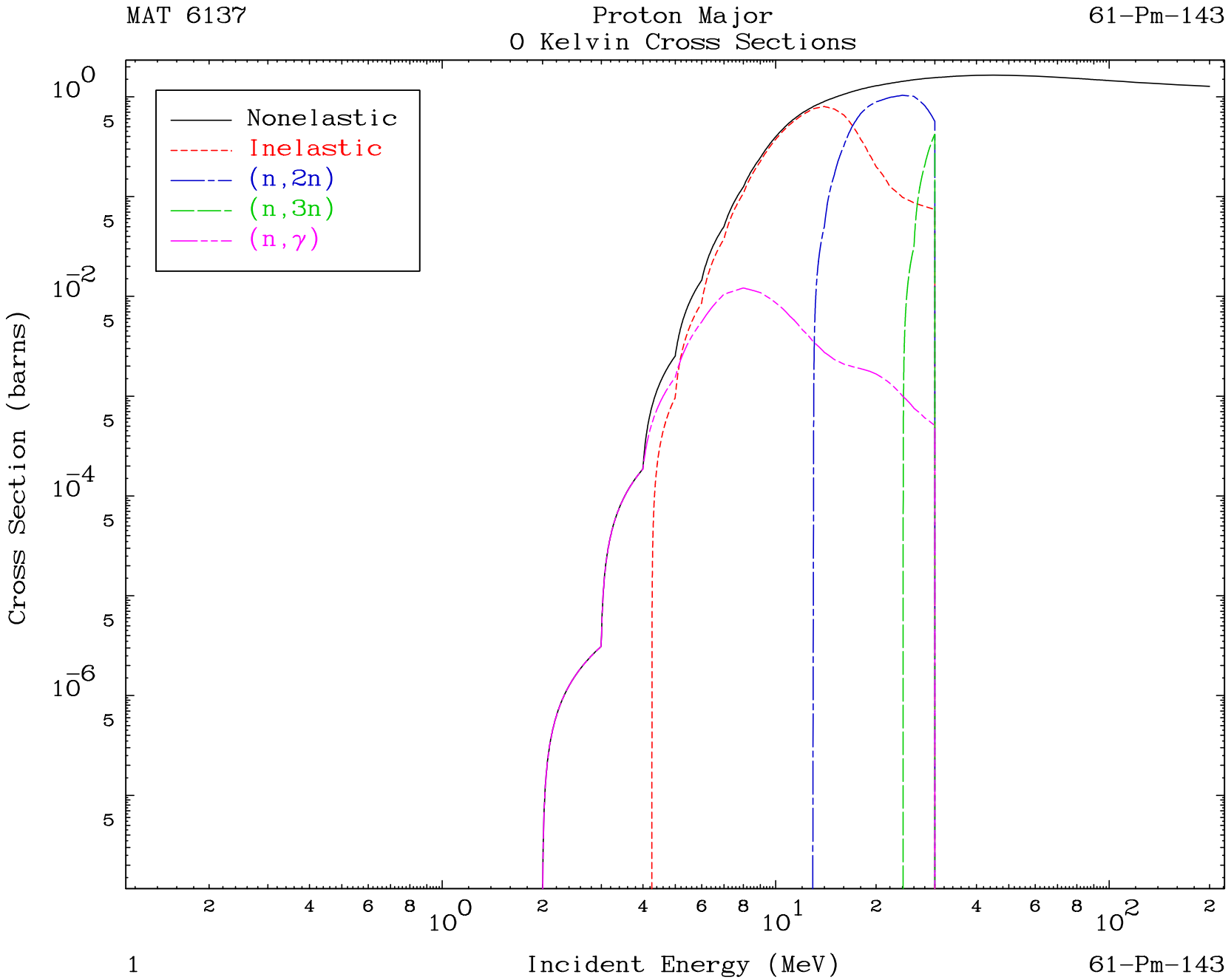
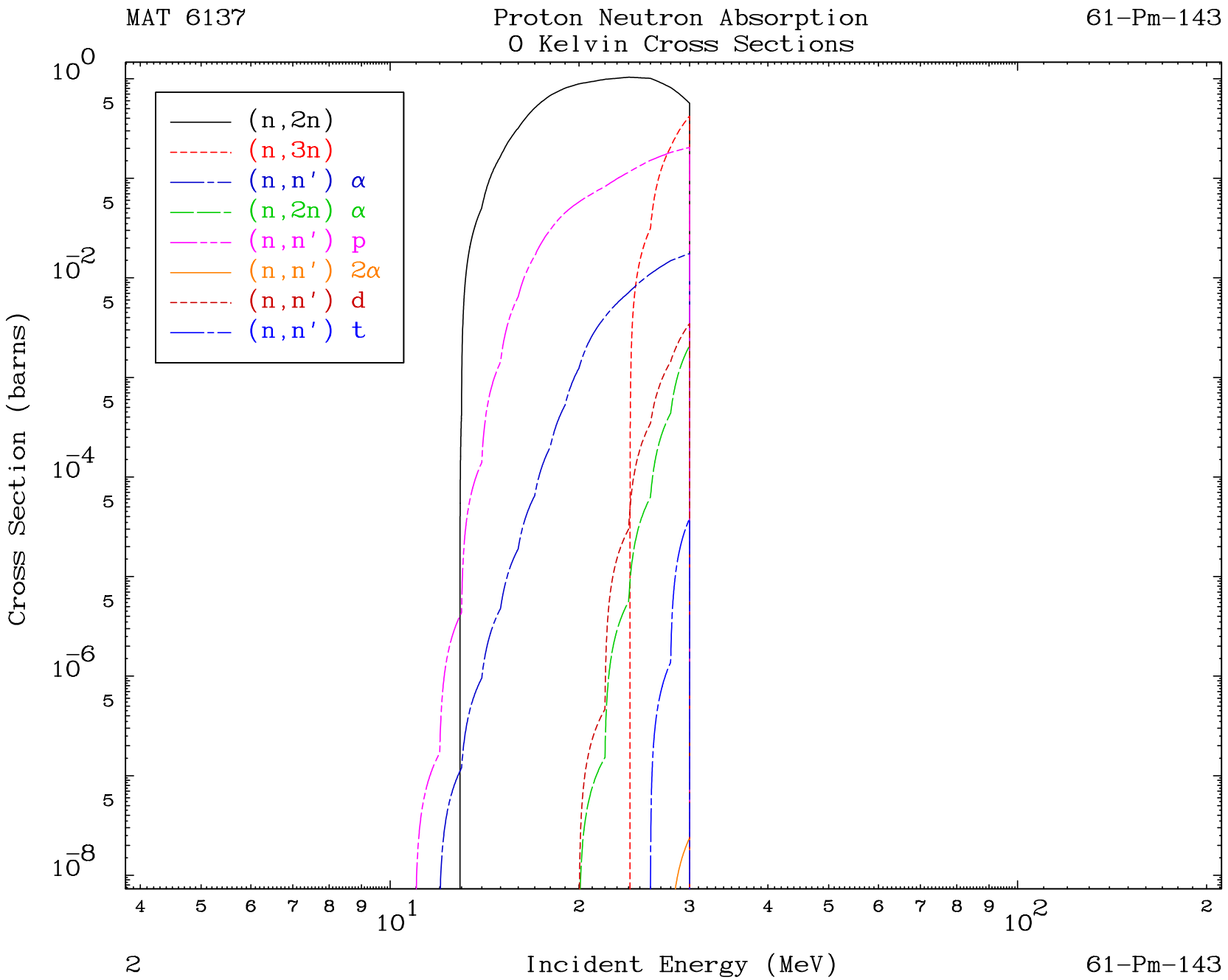
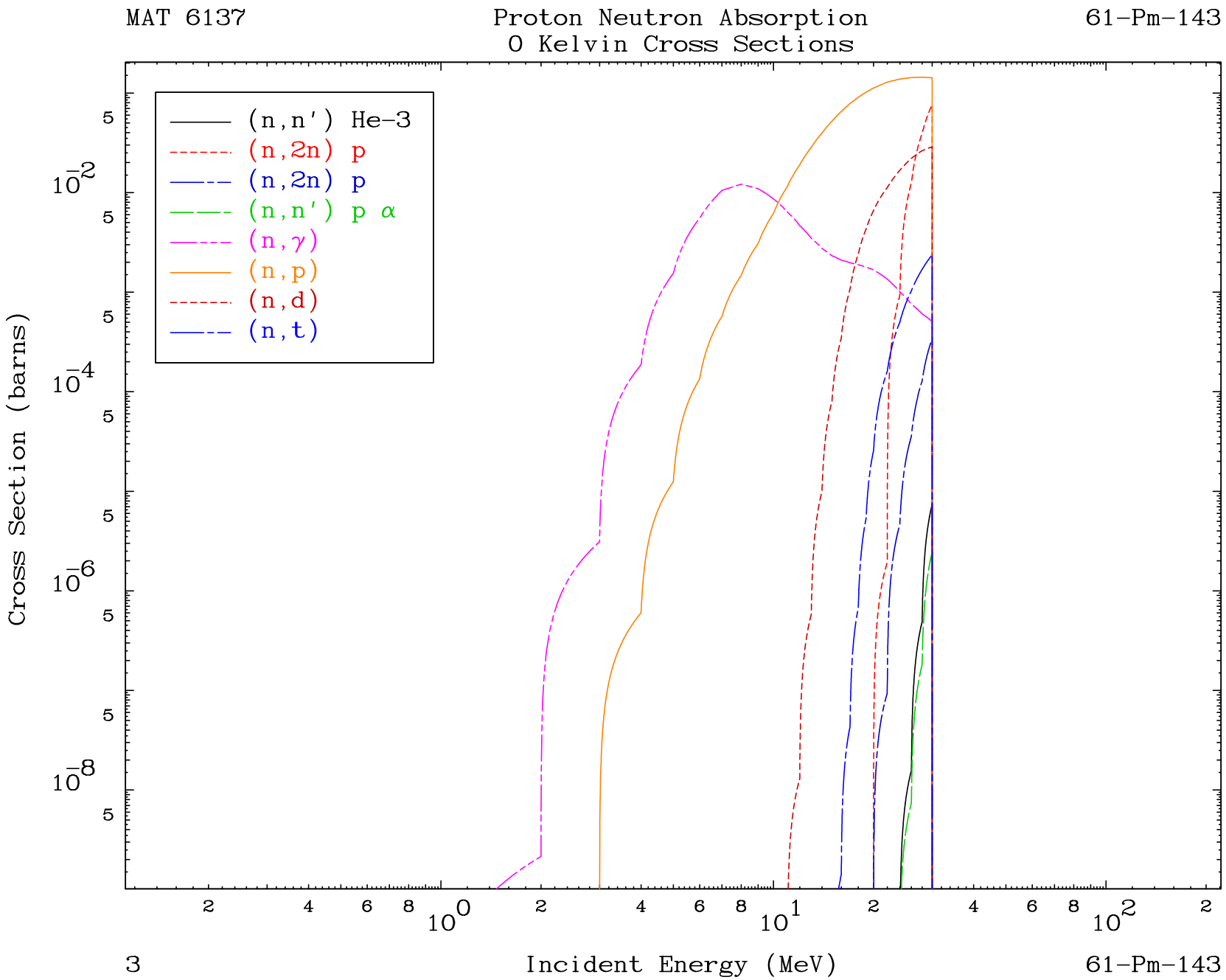
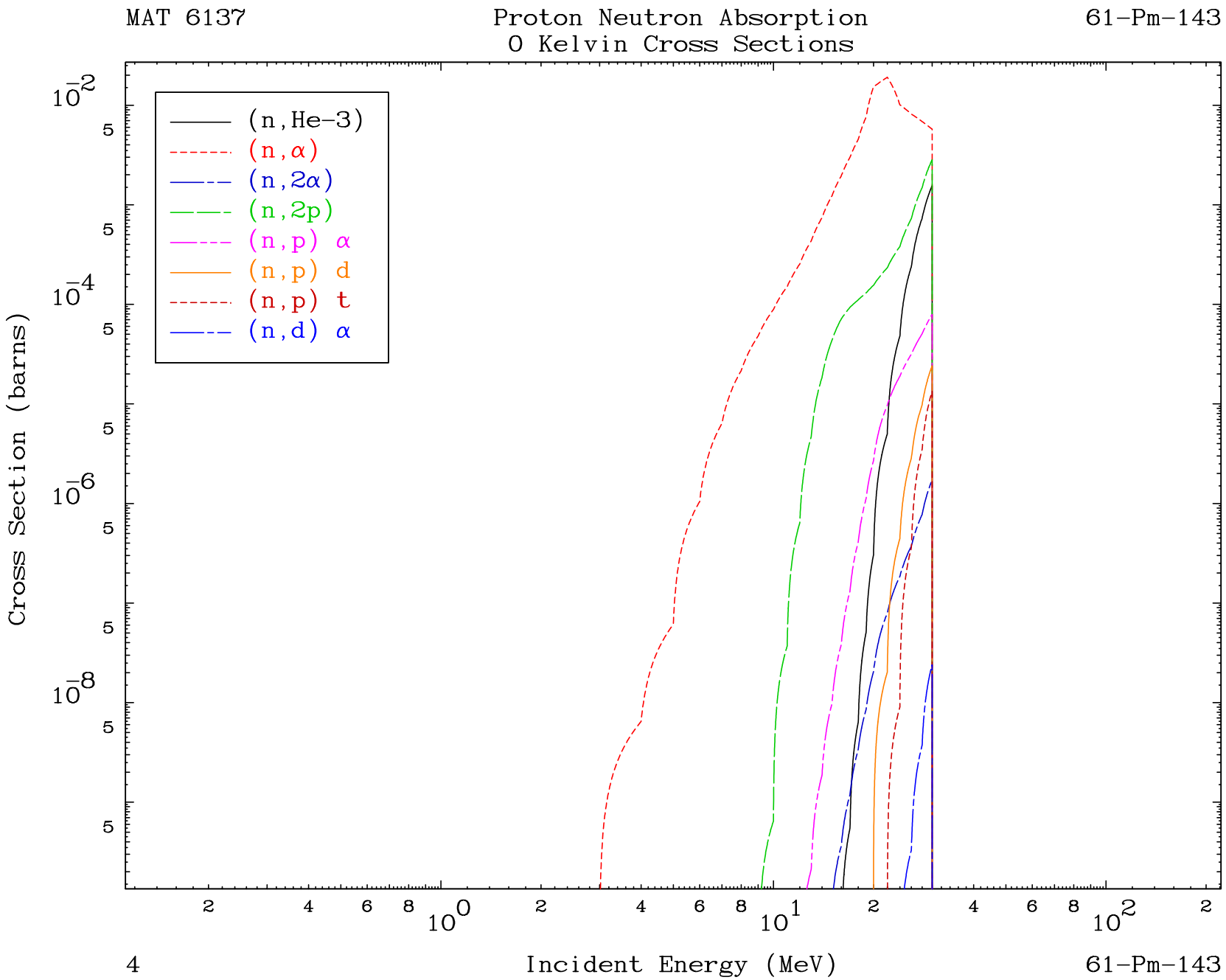
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

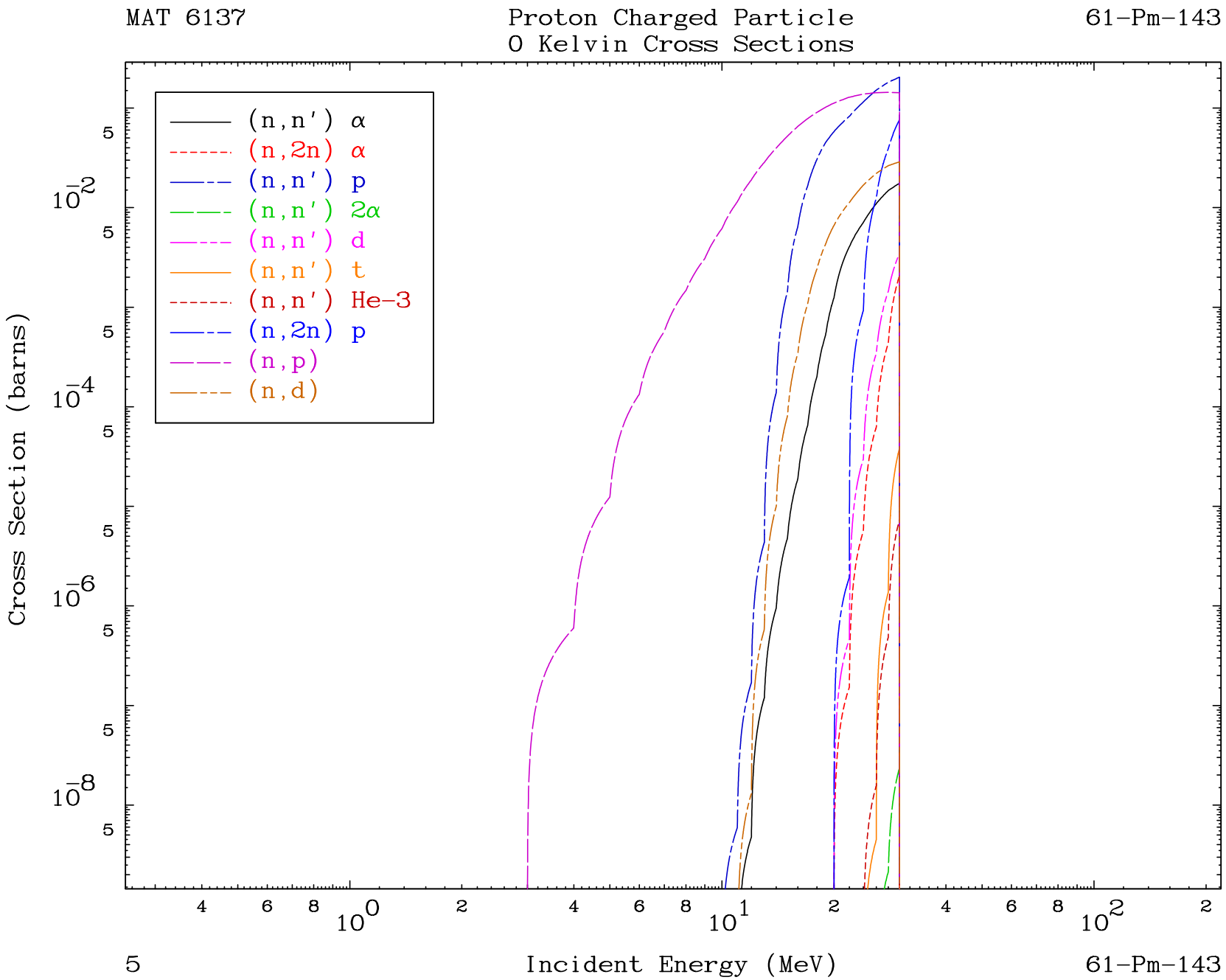
Press Mouse Button to Start

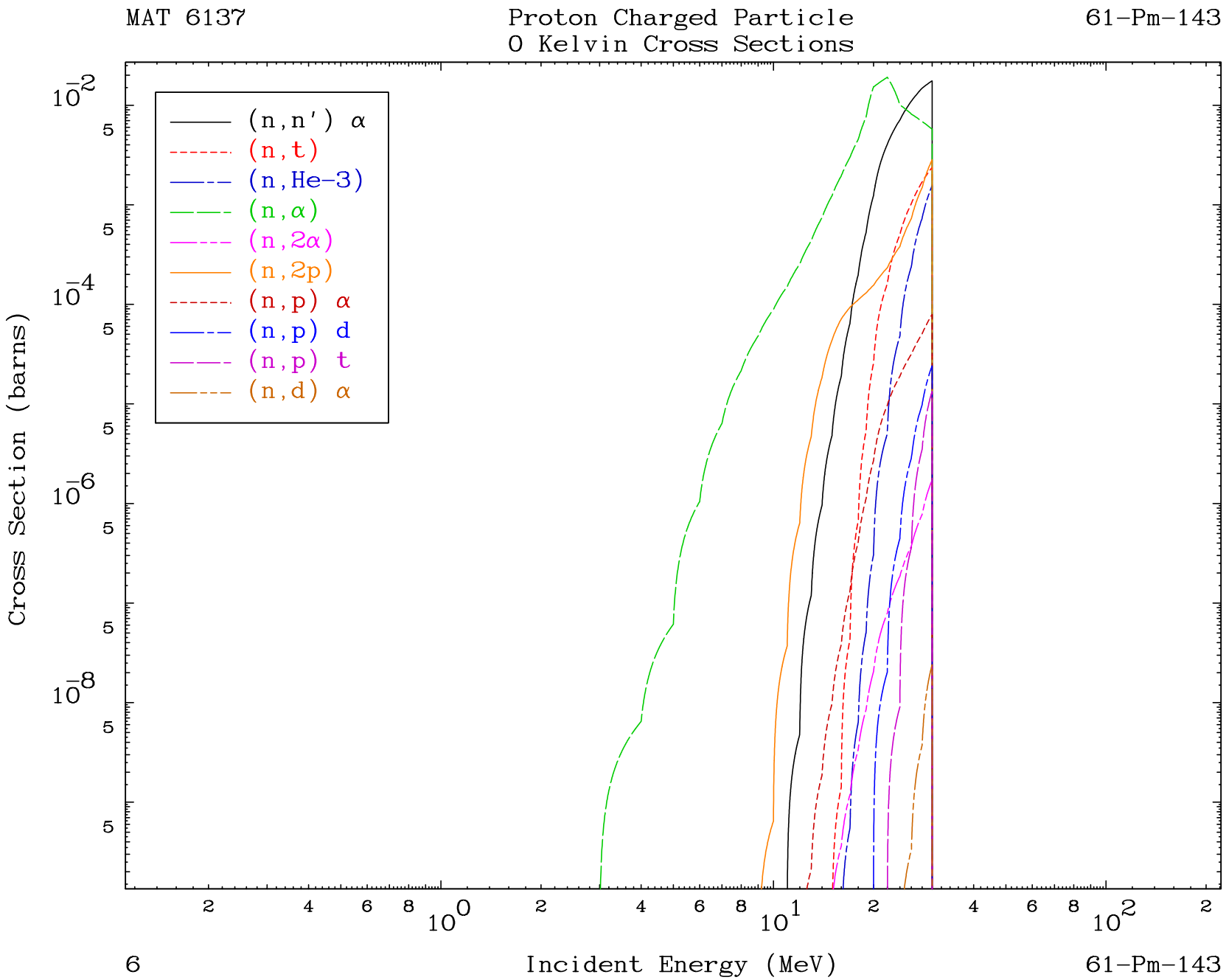

MAT 6137
Proton Major
61-Pm-143
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
61-Pm-143
1

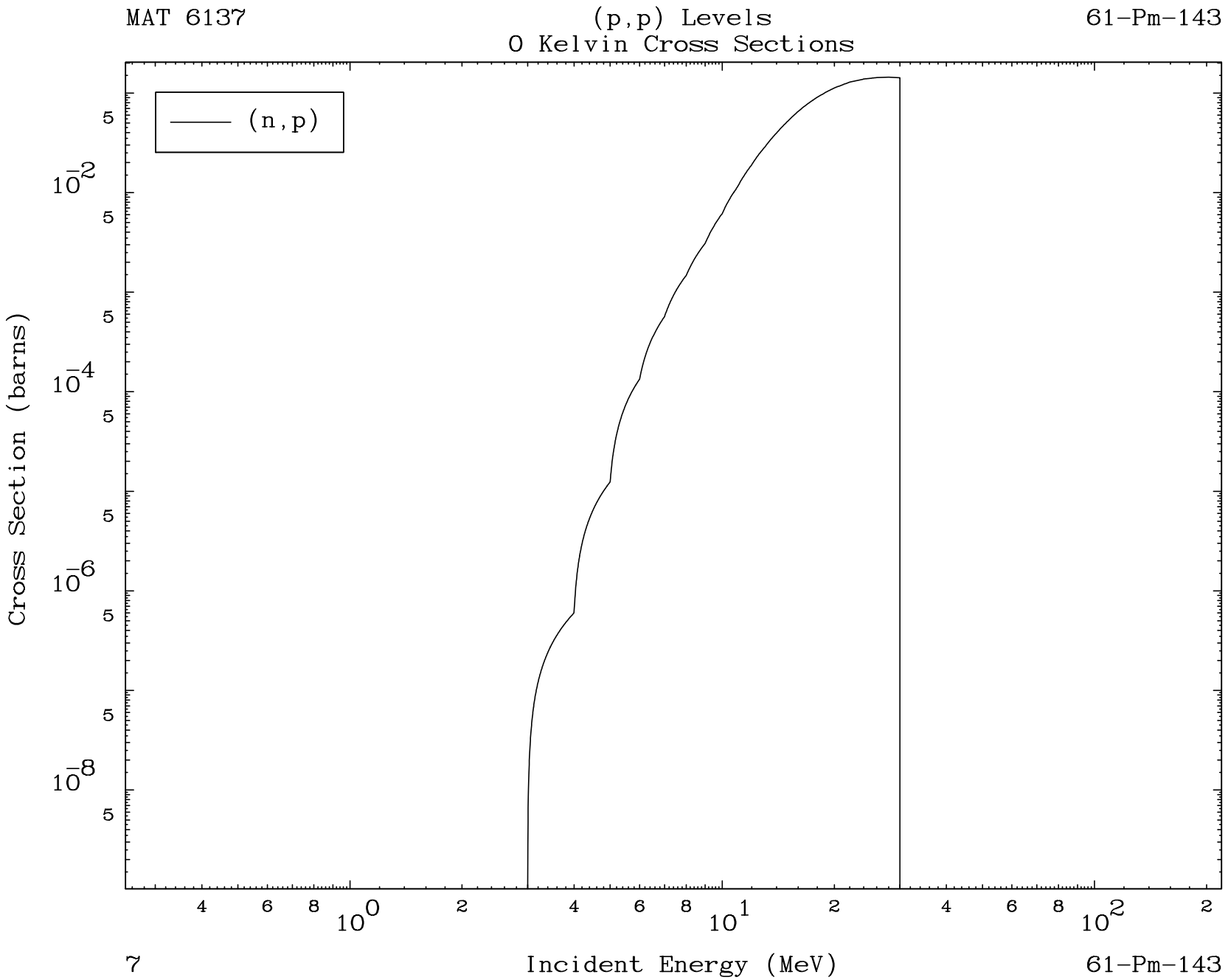

MAT 6137
Proton Neutron Absorption
0 Kelvin Cross Sections
61-Pm-143
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
61-Pm-143

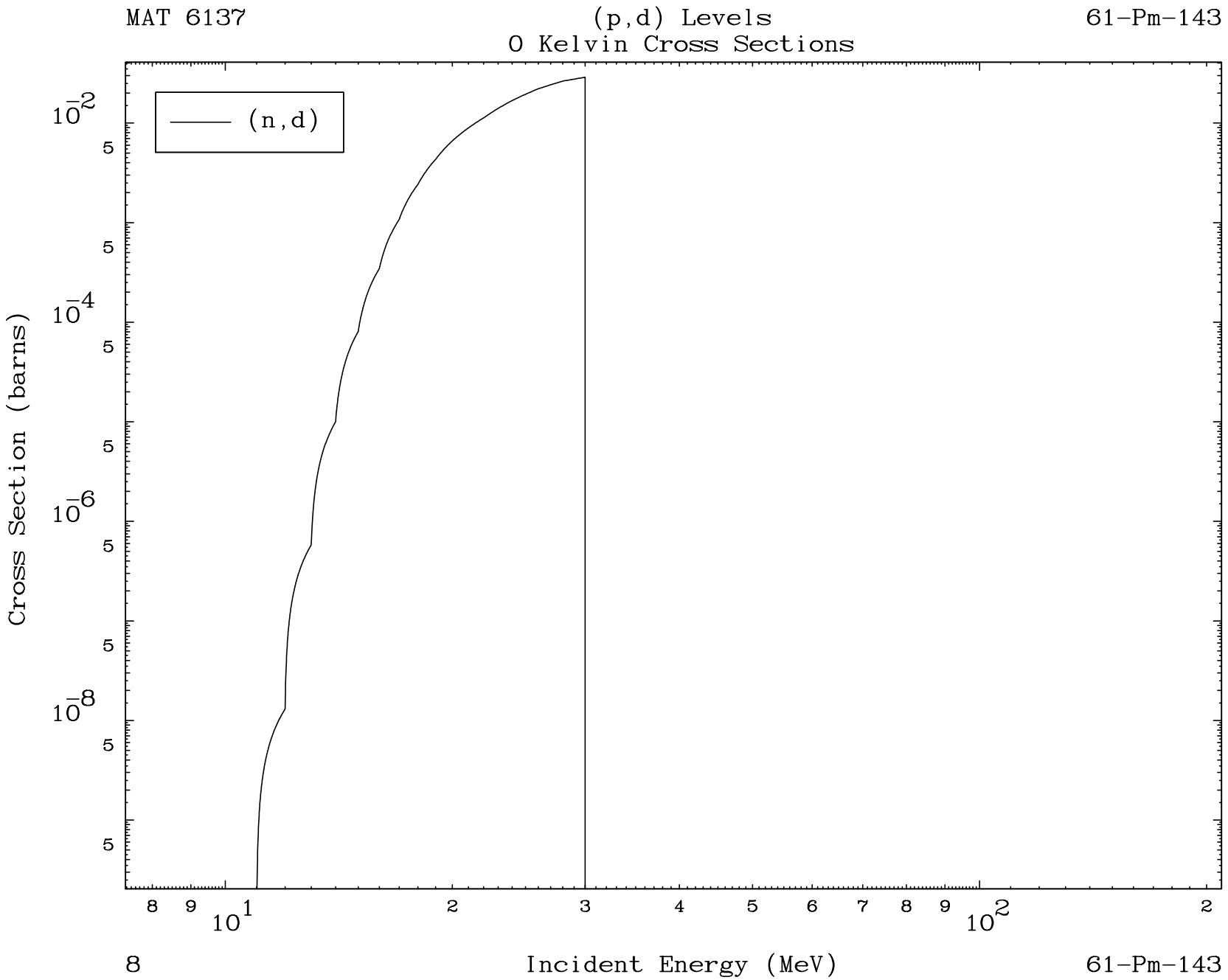

MAT 6137
Proton Neutron Absorption
0 Kelvin Cross Sections
61-Pm-143
(n,n') He-3
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
3
61-Pm-143

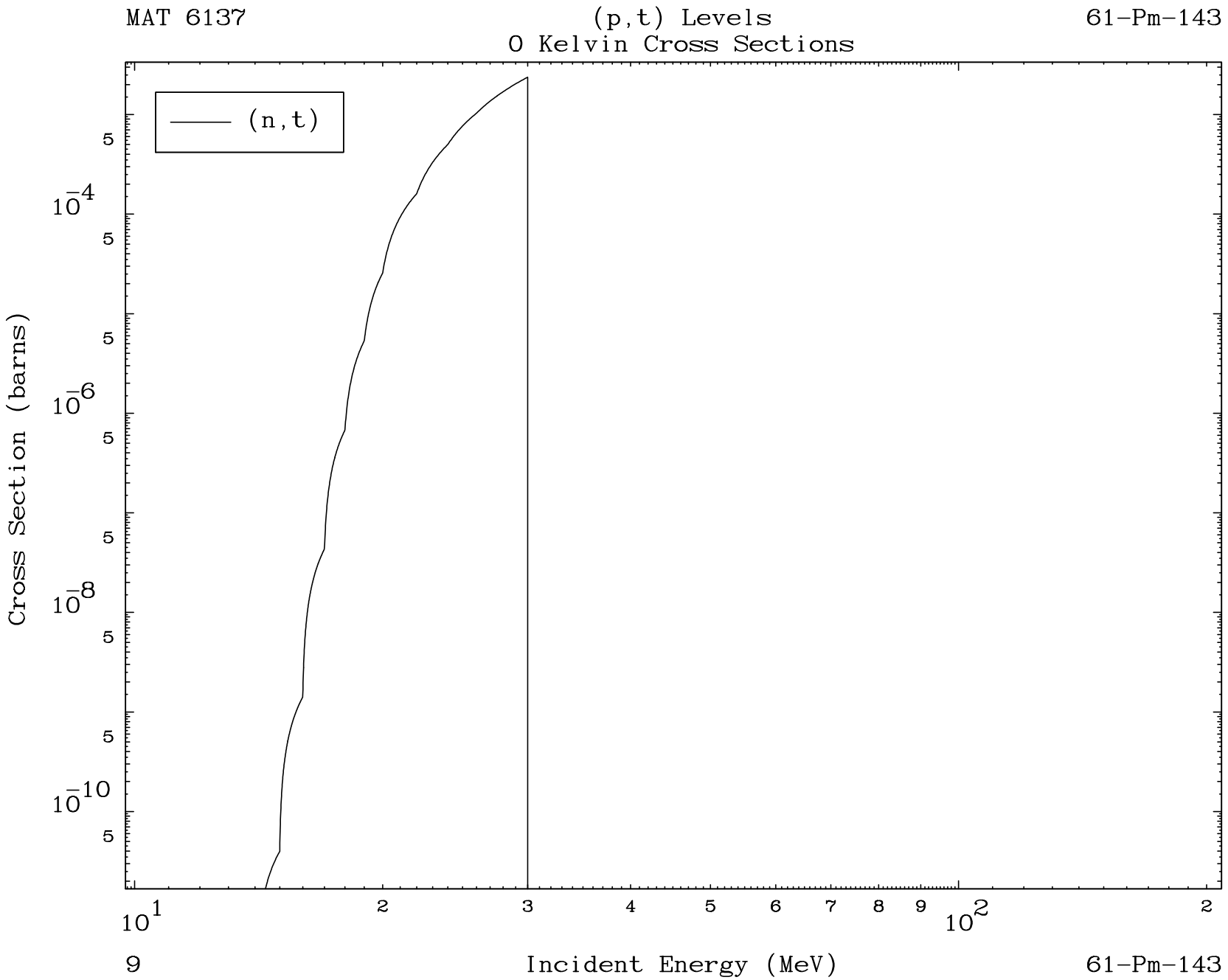

MAT 6137
Proton Neutron Absorption
0 Kelvin Cross Sections
61-Pm-143
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
61-Pm-143

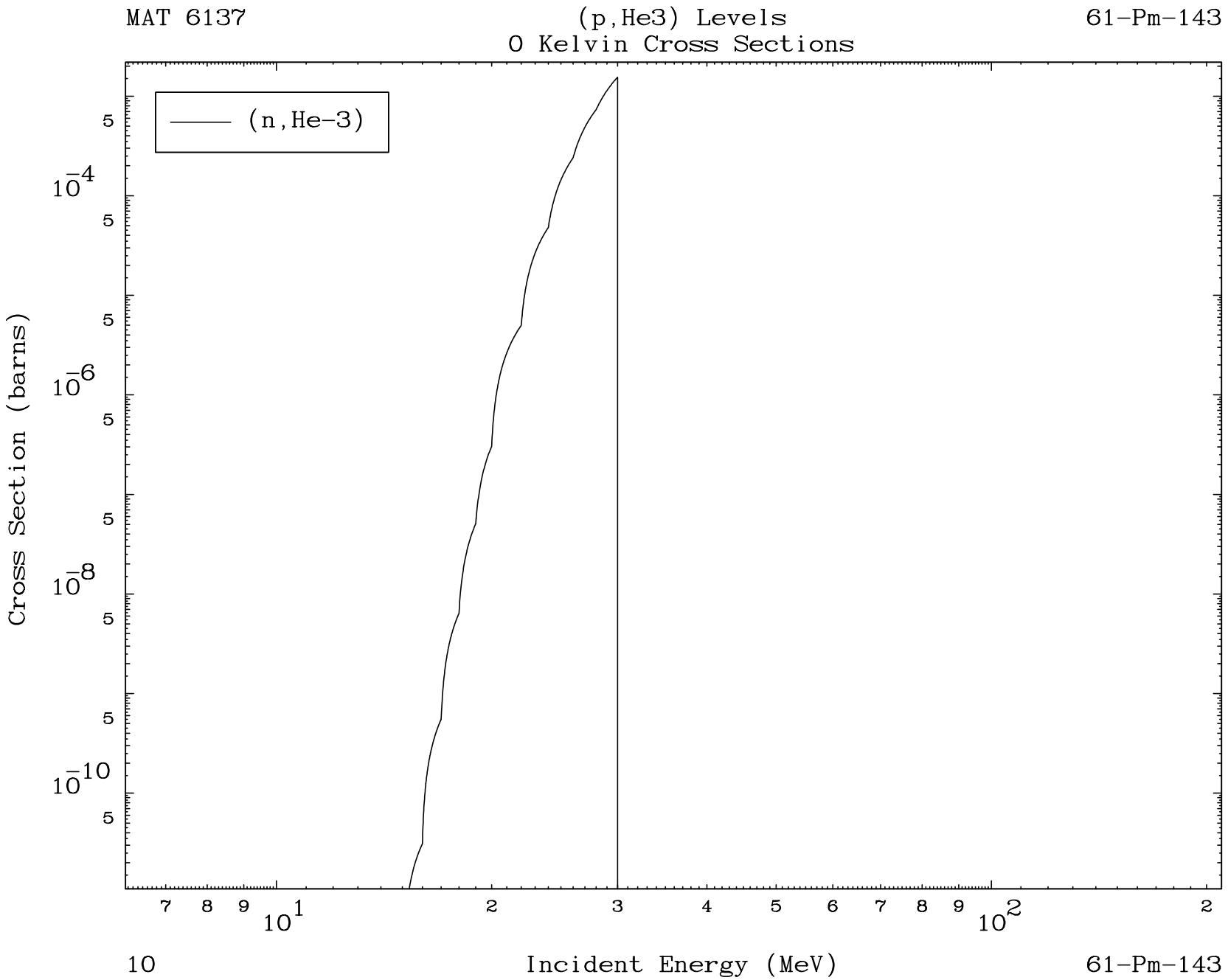

MAT 6137
Proton Charged Particle
0 Kelvin Cross Sections
61-Pm-143
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
61-Pm-143

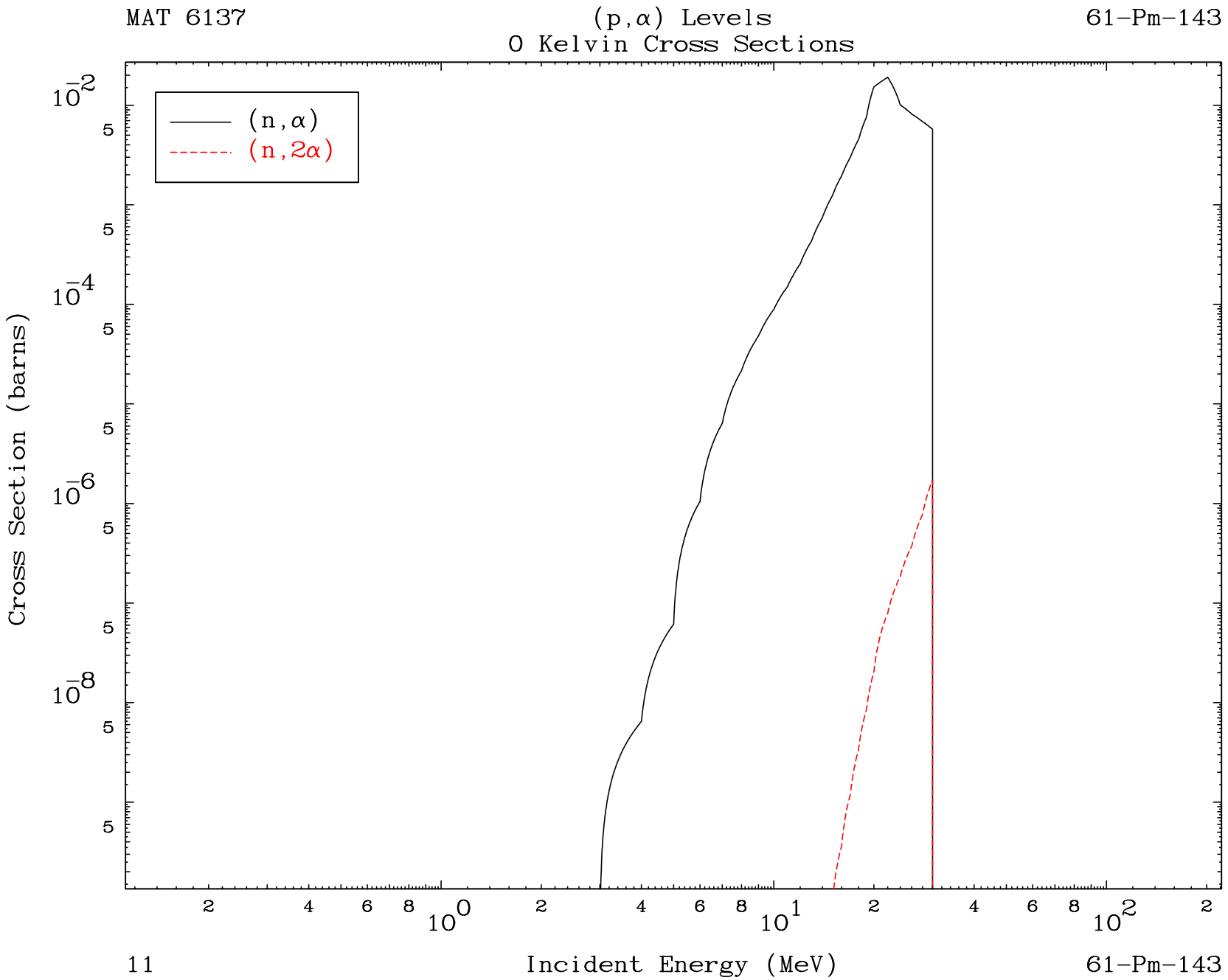

MAT 6137
Proton Charged Particle
0 Kelvin Cross Sections
61-Pm-143
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
61-Pm-143

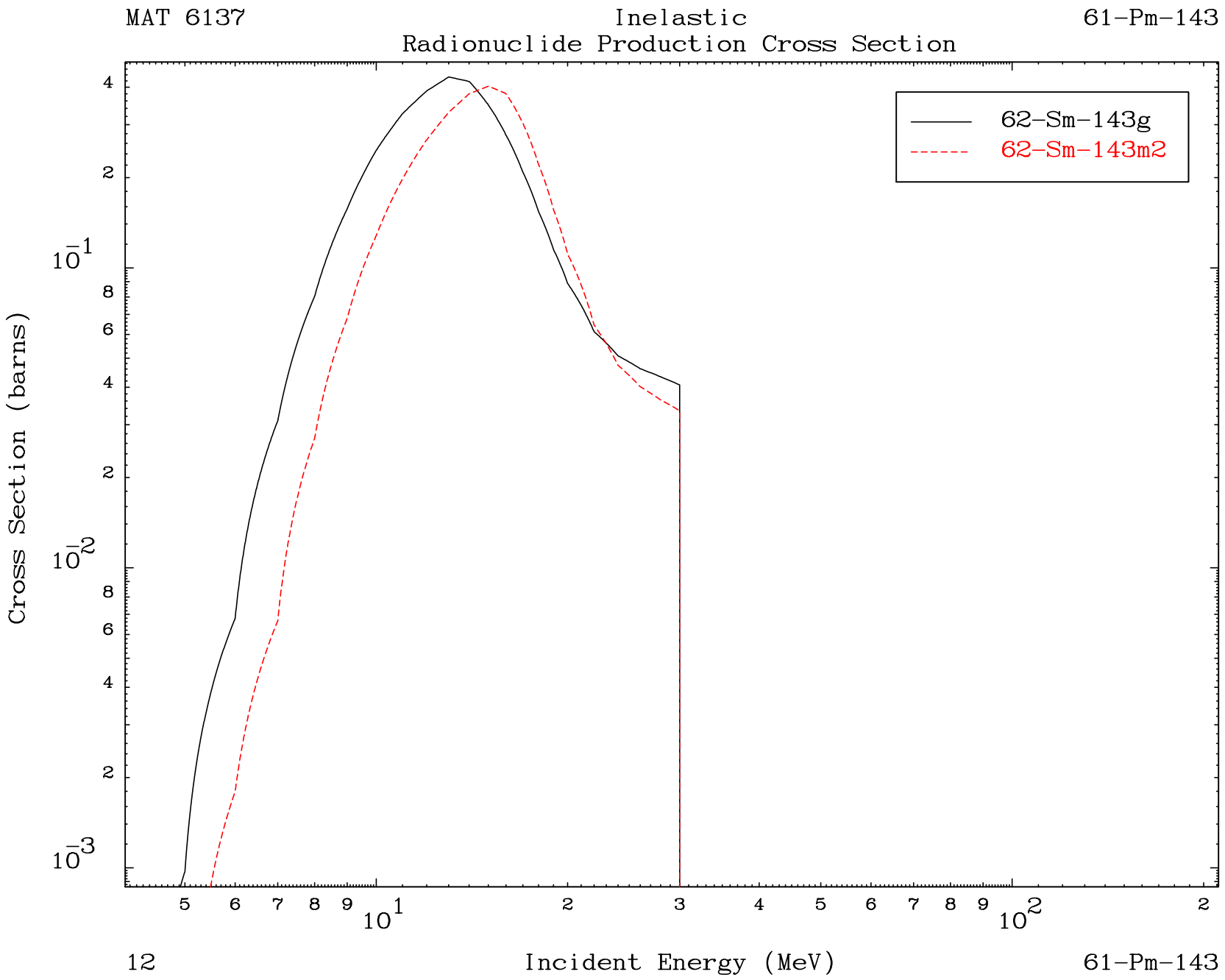

MAT 6137
(p,p) Levels
61-Pm-143
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
61-Pm-143

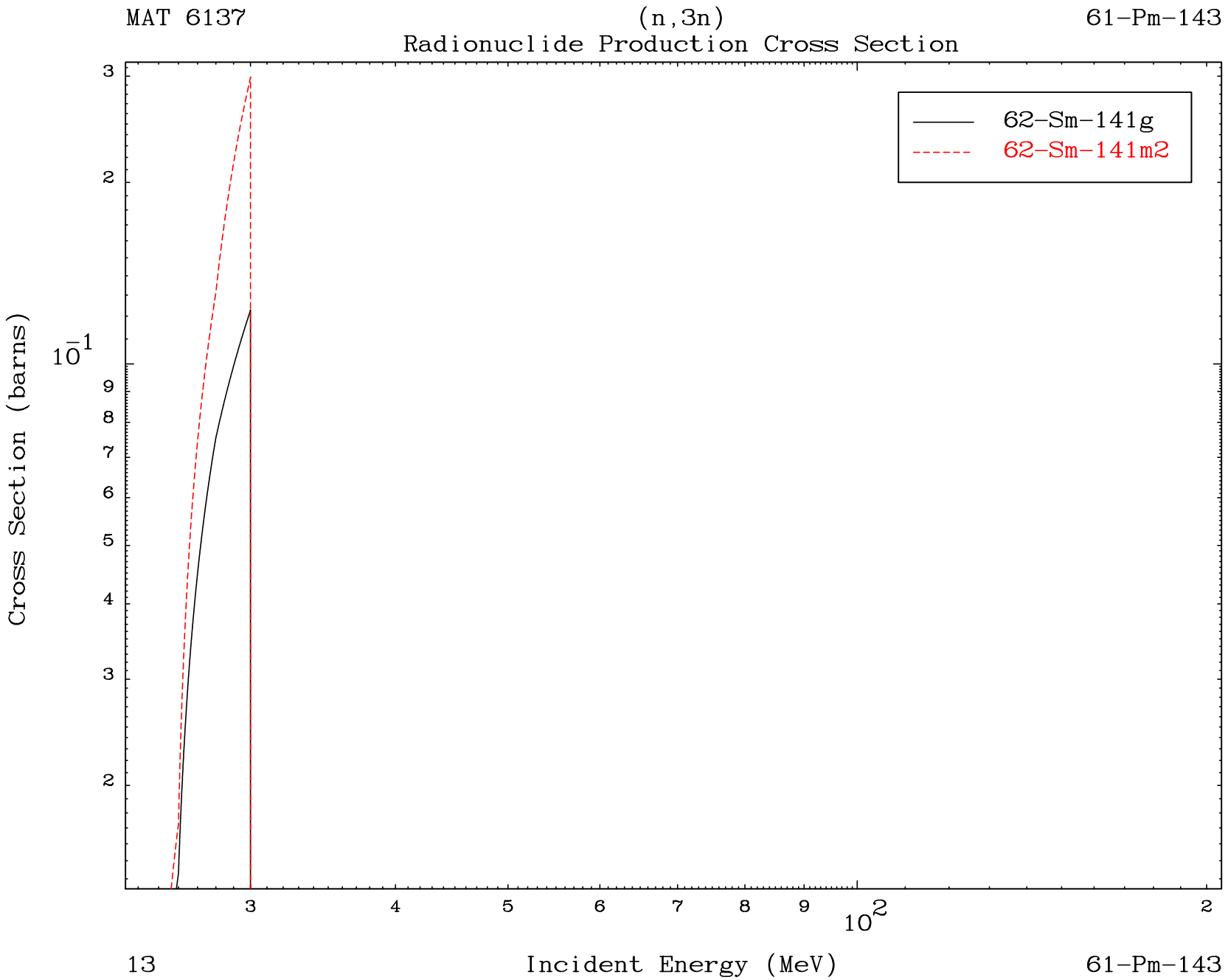

MAT 6137
(p,d) Levels
61-Pm-143
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
8
61-Pm-143

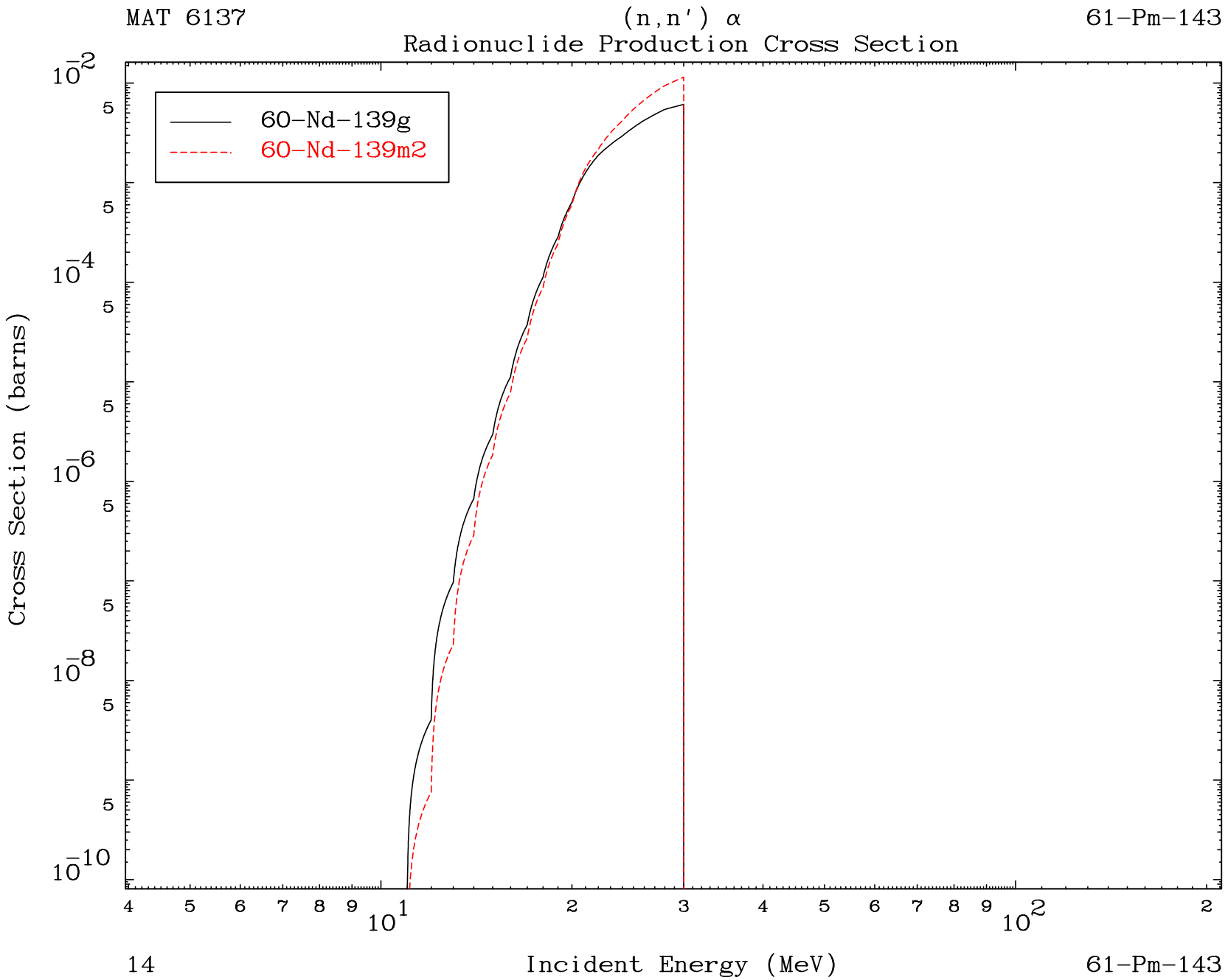

MAT 6137
(p,t) Levels
61-Pm-143
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
10 1
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
61-Pm-143

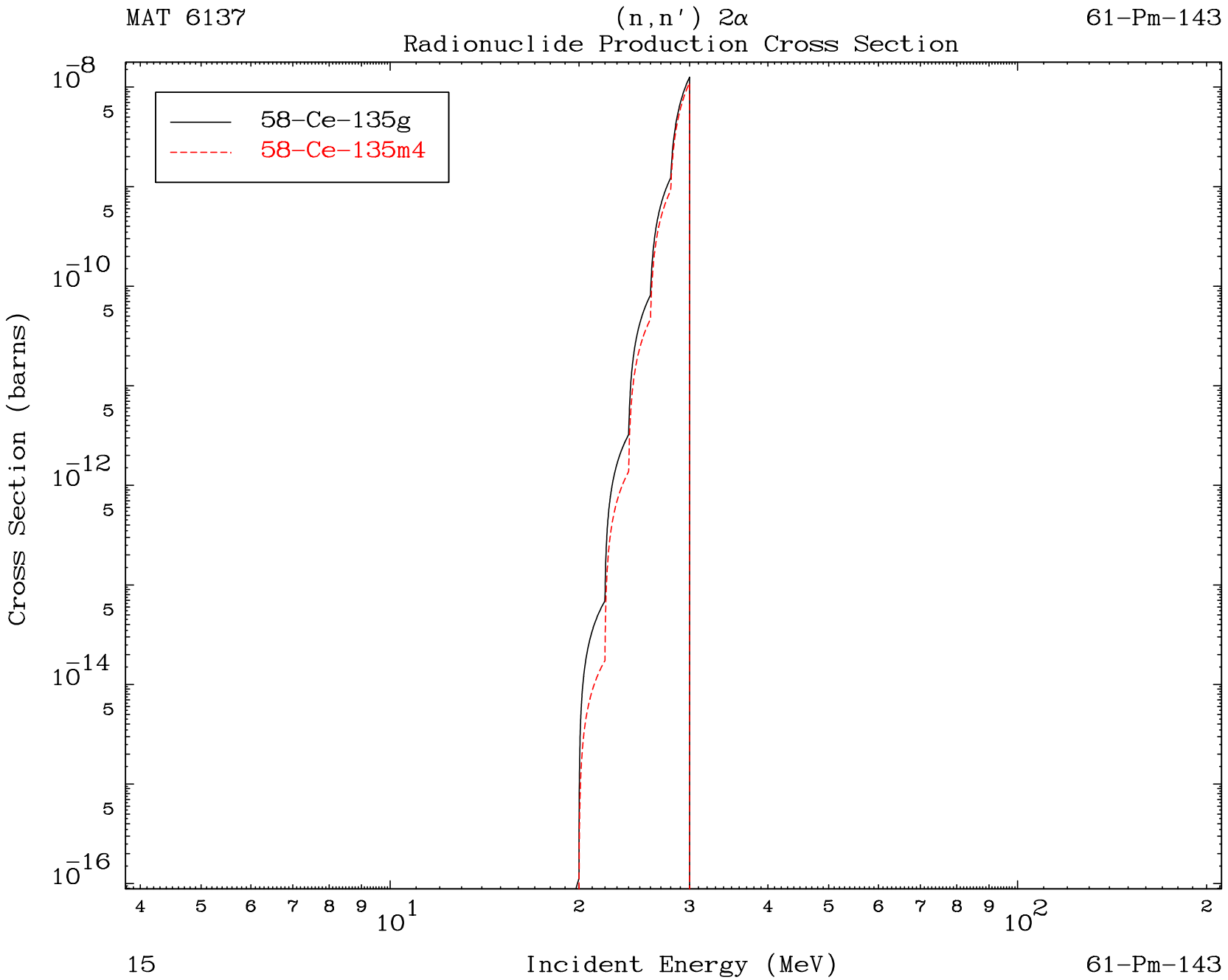

MAT 6137
(p,He3) Levels
61-Pm-143
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
10
Incident Energy (MeV)
61-Pm-143

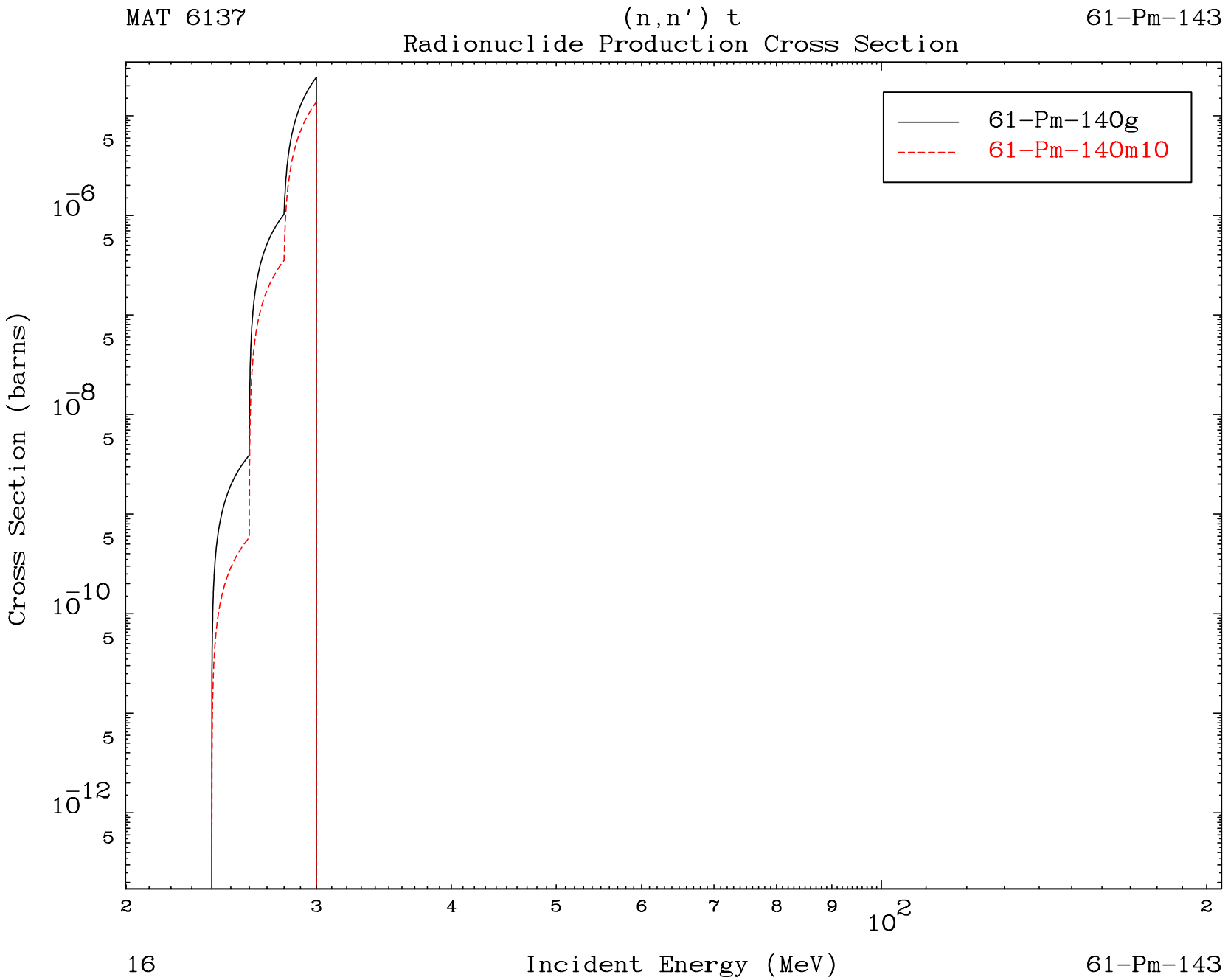

MAT 6137
(p,α) Levels
61-Pm-143
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
61-Pm-143

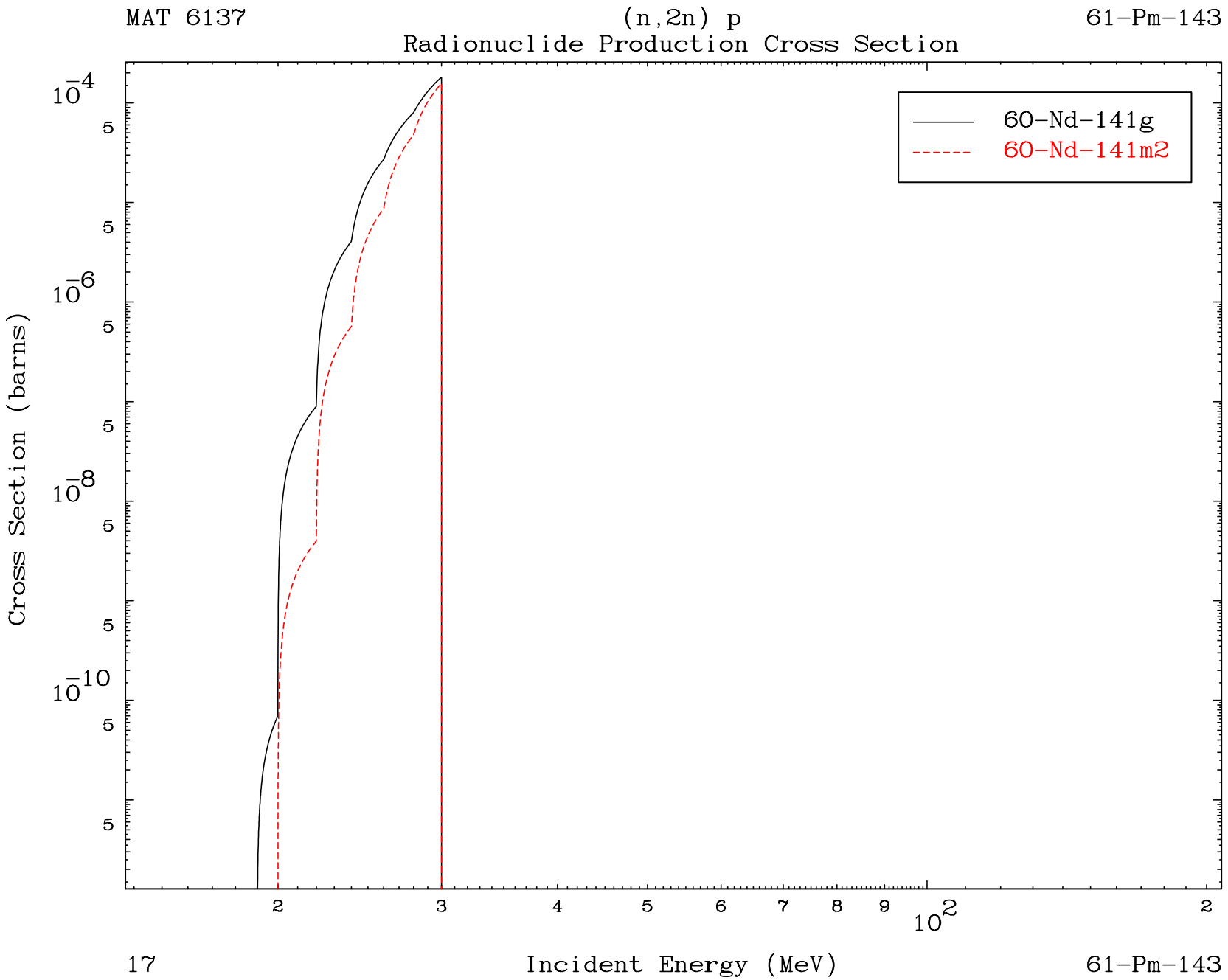

MAT 6137
Inelastic
61-Pm-143
Radionuclide Production Cross Section
62-Sm-143g
62-Sm-143m2
Cross Section (barns)
Incident Energy (MeV)
12
61-Pm-143

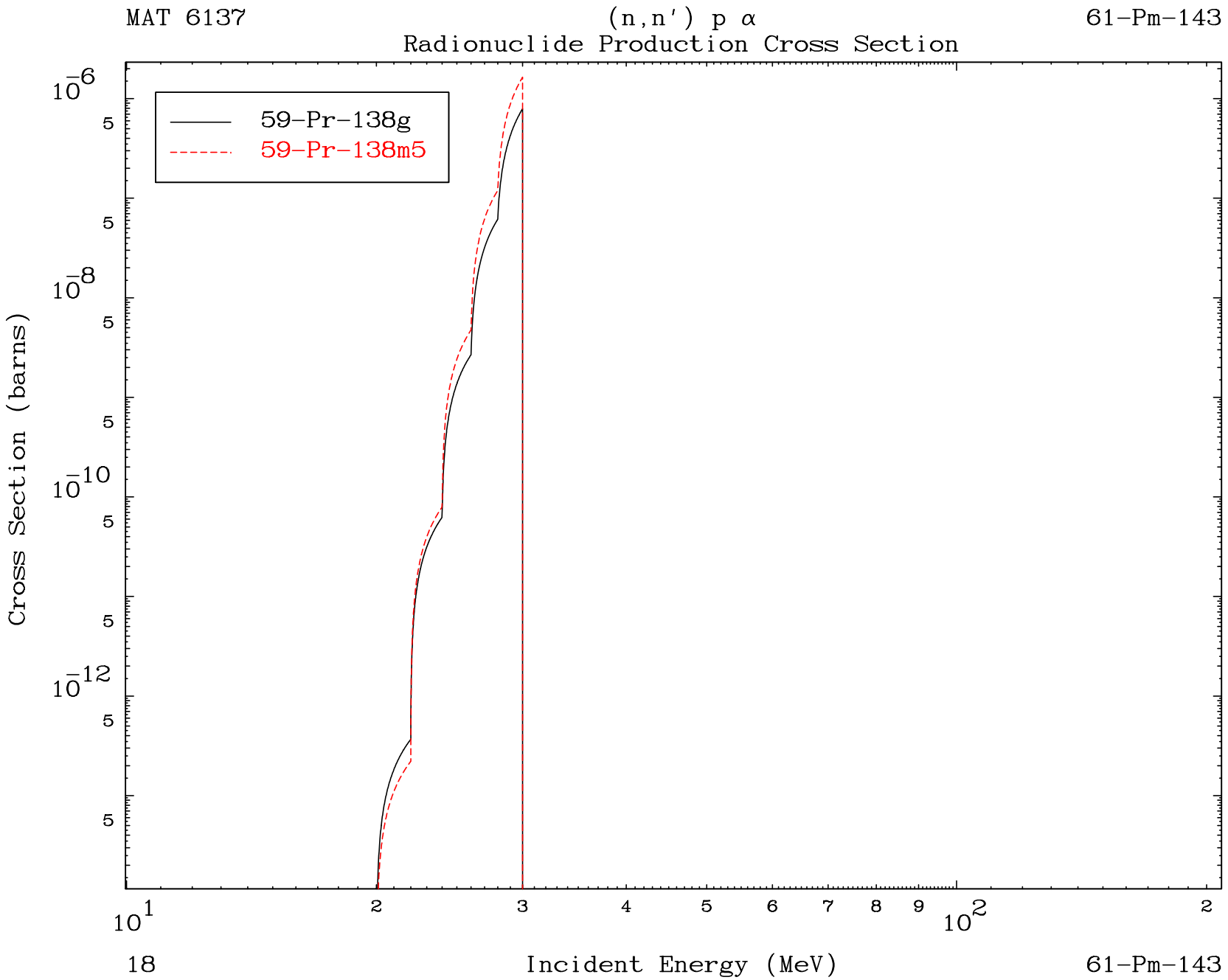

MAT 6137
(n,3n)
61-Pm-143
Radionuclide Production Cross Section
62-Sm-141g
62-Sm-141m2
Cross Section (barns)
10^1
3
2
9
8
7
6
5
4
3
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
61-Pm-143

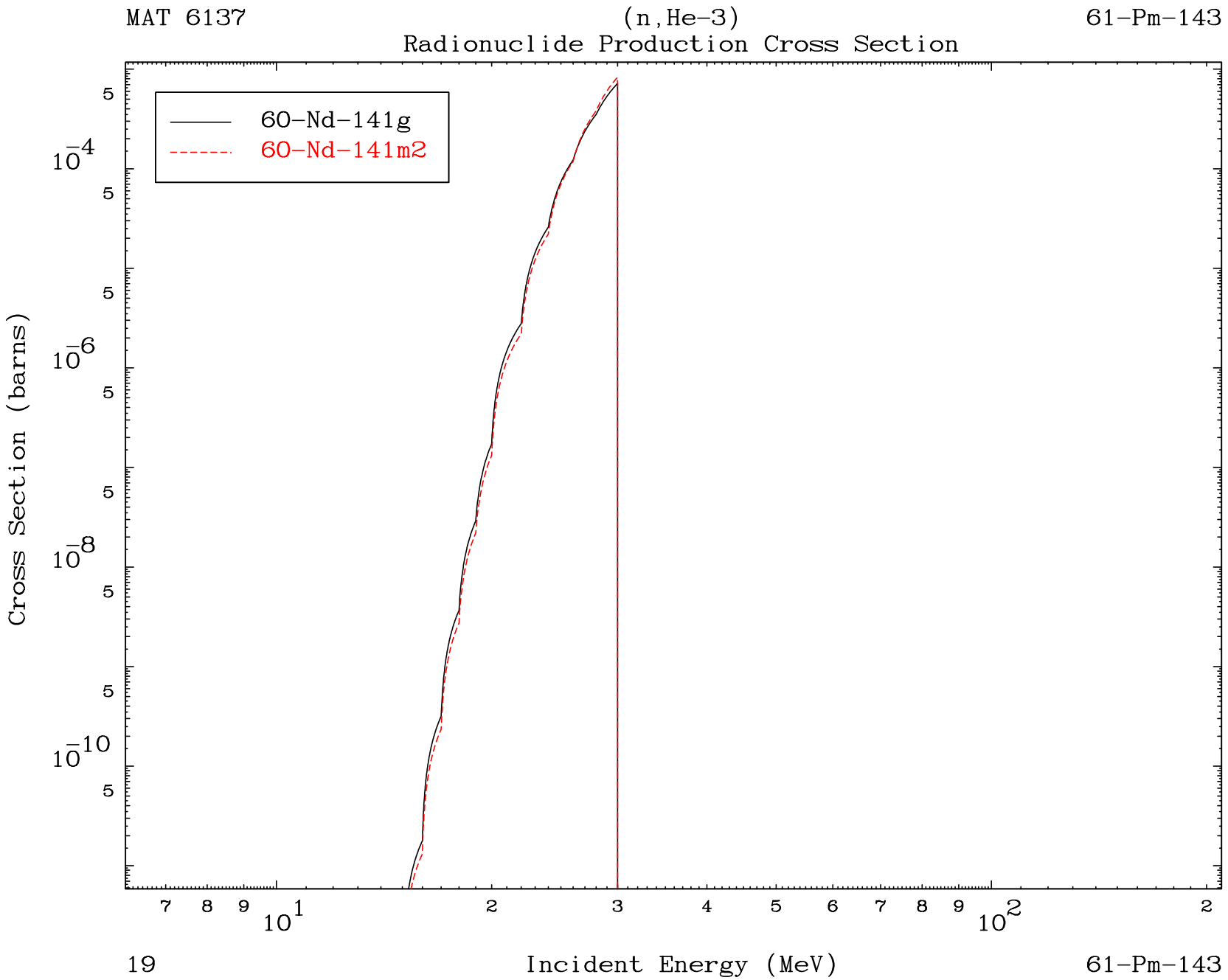

MAT 6137
(n,n') α
61-Pm-143
Radionuclide Production Cross Section
60-Nd-139g
60-Nd-139m2
Cross Section (barns)
Incident Energy (MeV)
14
61-Pm-143

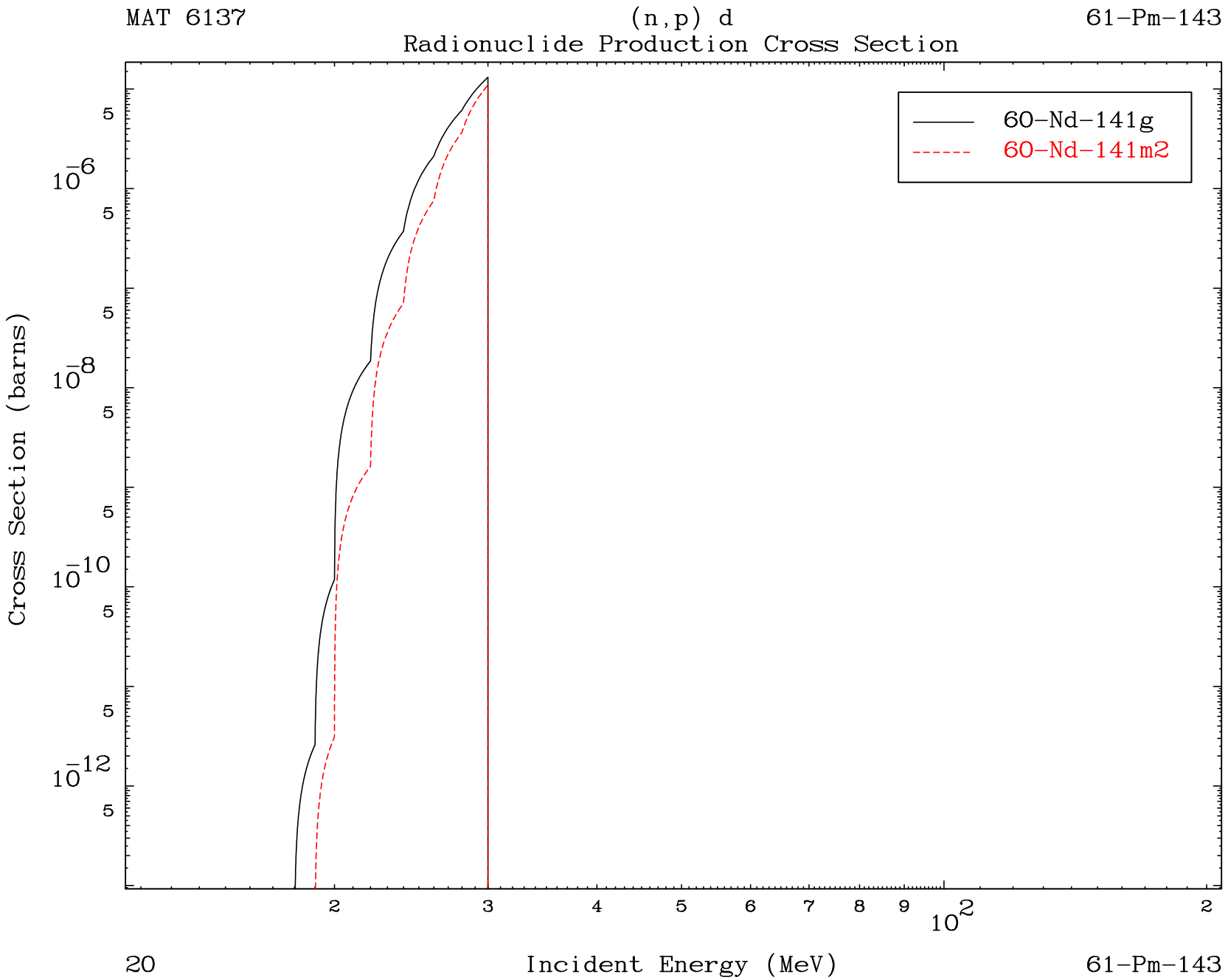

MAT 6137
(n,n') 2α
61-Pm-143
Radionuclide Production Cross Section
58-Ce-135g
58-Ce-135m4
Cross Section (barns)
Incident Energy (MeV)
15
61-Pm-143

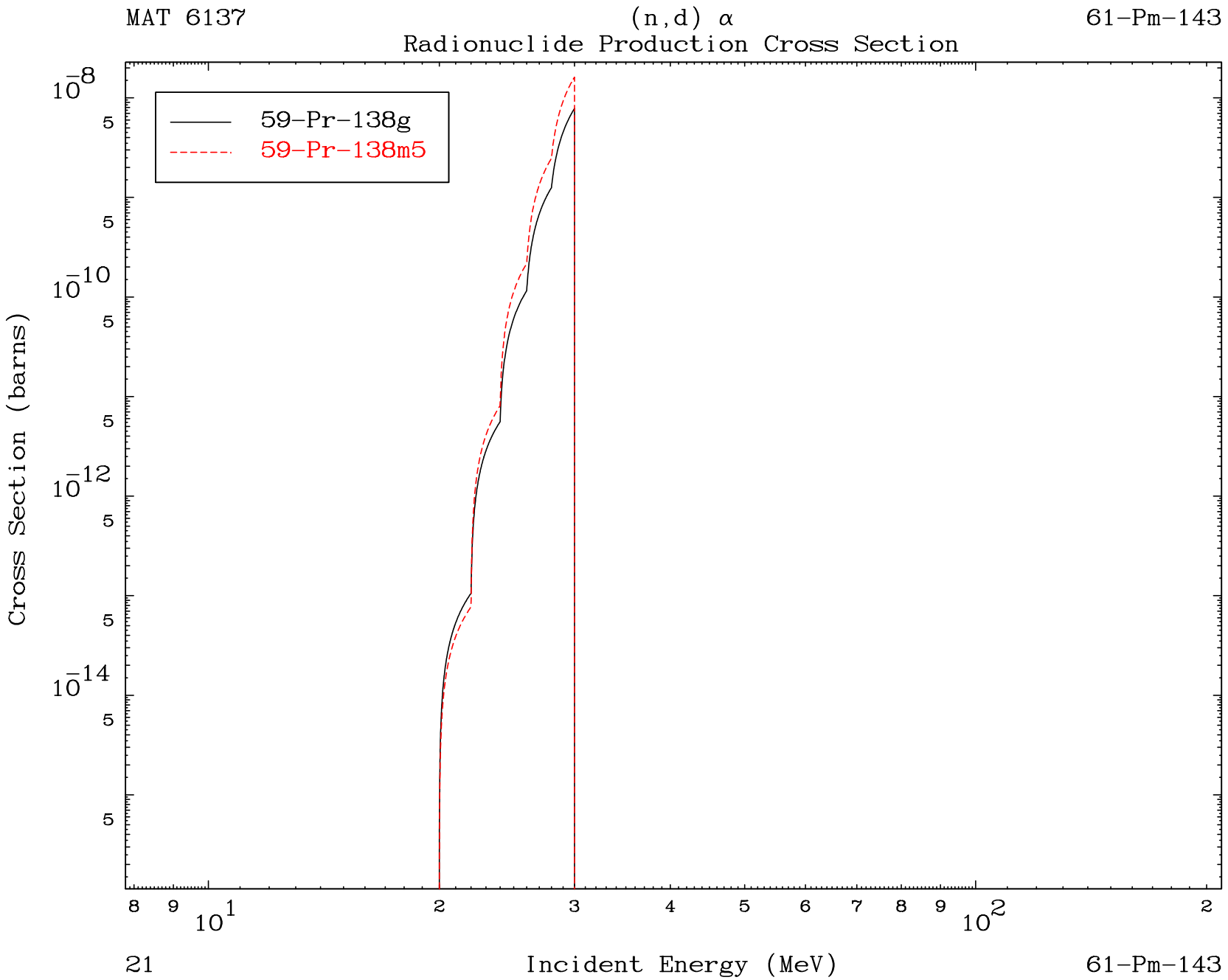

MAT 6137
(n,n') t
61-Pm-143
Radionuclide Production Cross Section
61-Pm-140g
61-Pm-140m10
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
61-Pm-143


MAT 6137
(n,2n) p
61-Pm-143
Radionuclide Production Cross Section
60-Nd-141g
60-Nd-141m2
Cross Section (barns)
Incident Energy (MeV)
17
61-Pm-143


MAT 6137
(n,n') p α
61-Pm-143
Radionuclide Production Cross Section
59-Pr-138g
59-Pr-138m5
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^1
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
61-Pm-143


MAT 6137
(n,He-3)
61-Pm-143
Radionuclide Production Cross Section
60-Nd-141g
60-Nd-141m2
Cross Section (barns)
Incident Energy (MeV)
19
61-Pm-143


MAT 6137
(n,p) d
61-Pm-143
Radionuclide Production Cross Section
60-Nd-141g
60-Nd-141m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
20
61-Pm-143


MAT 6137
(n,d) α
61-Pm-143
Radionuclide Production Cross Section
59-Pr-138g
59-Pr-138m5
Cross Section (barns)
Incident Energy (MeV)
21
61-Pm-143