Program EVALPLOT
(Version 2018-1)
by
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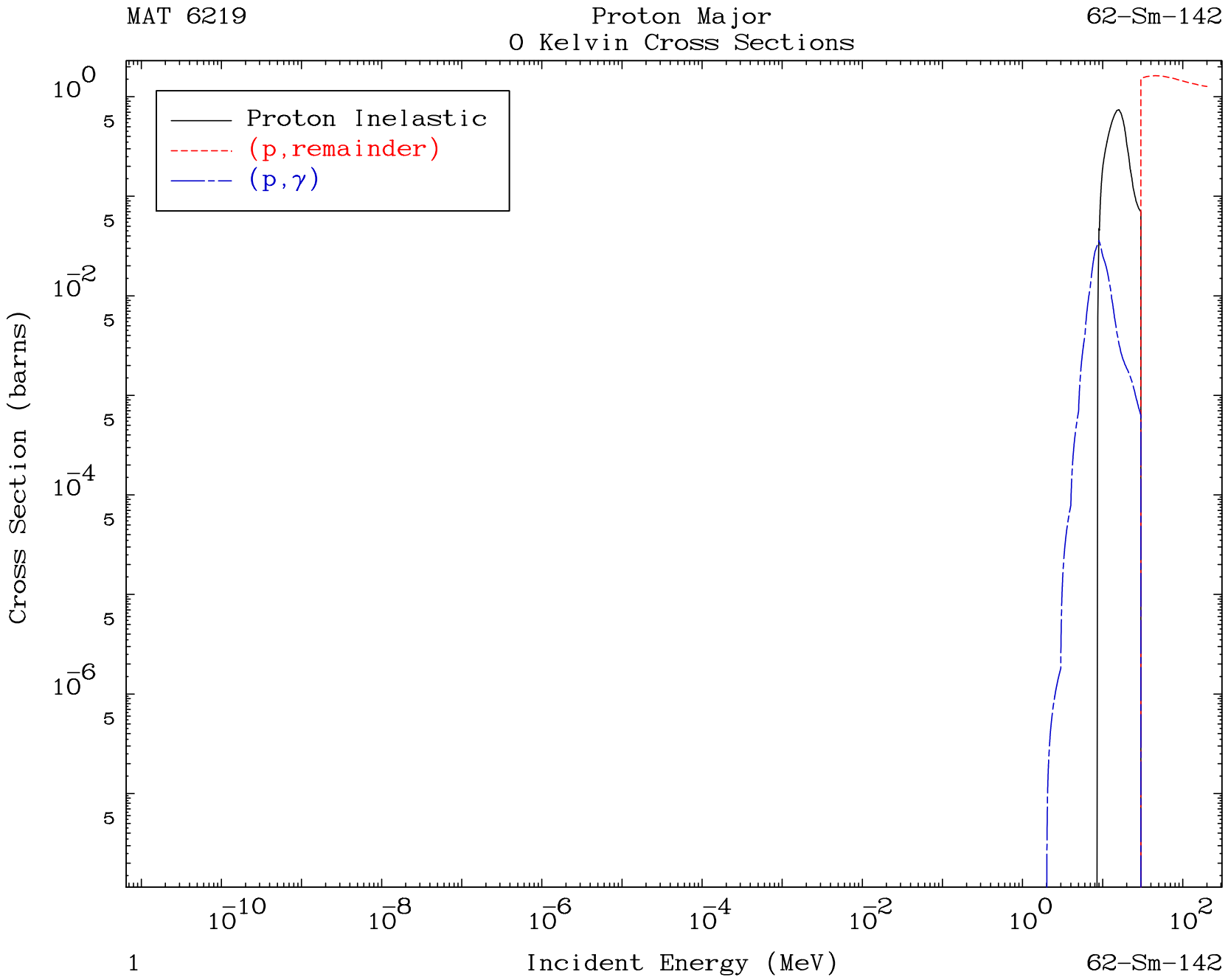
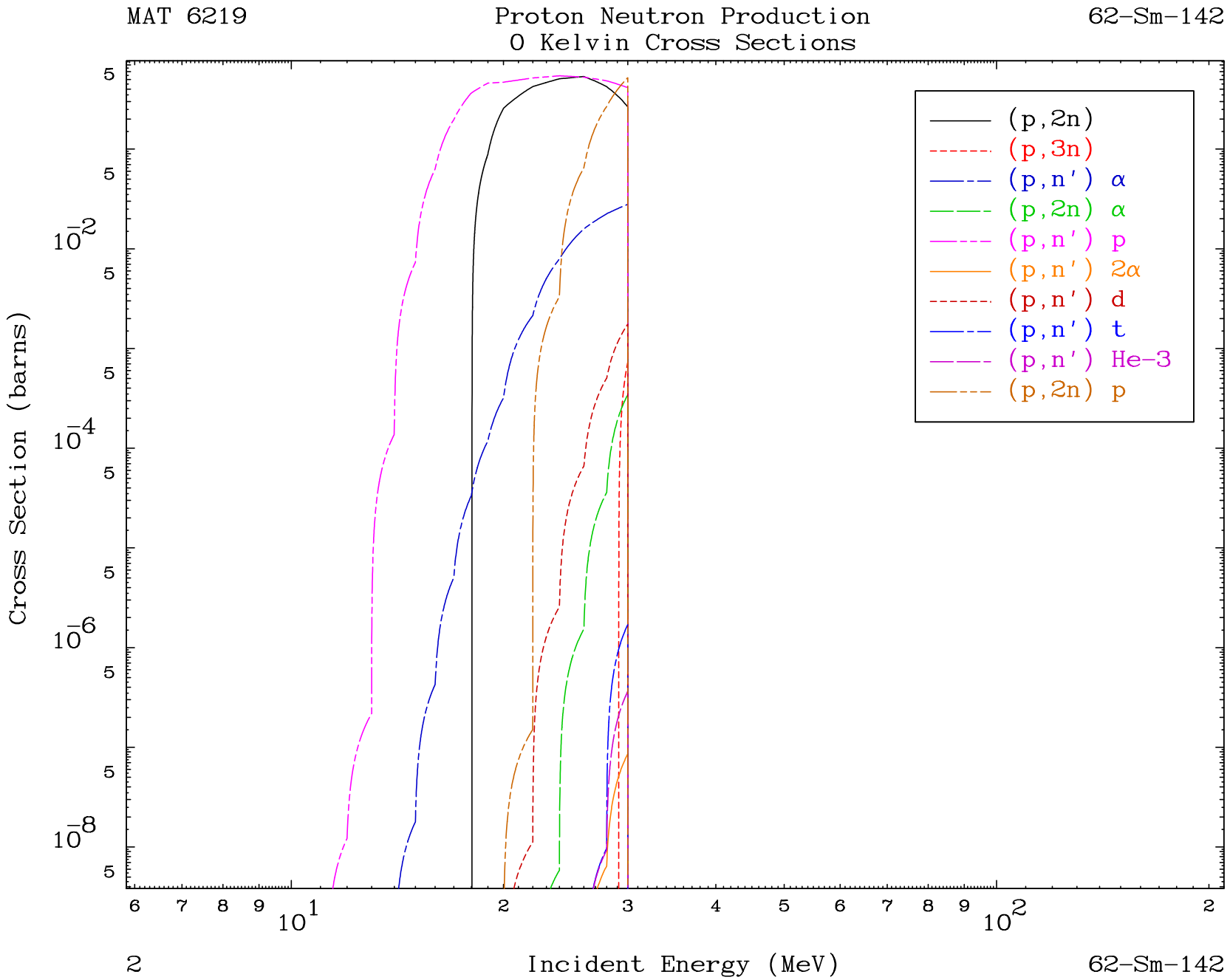
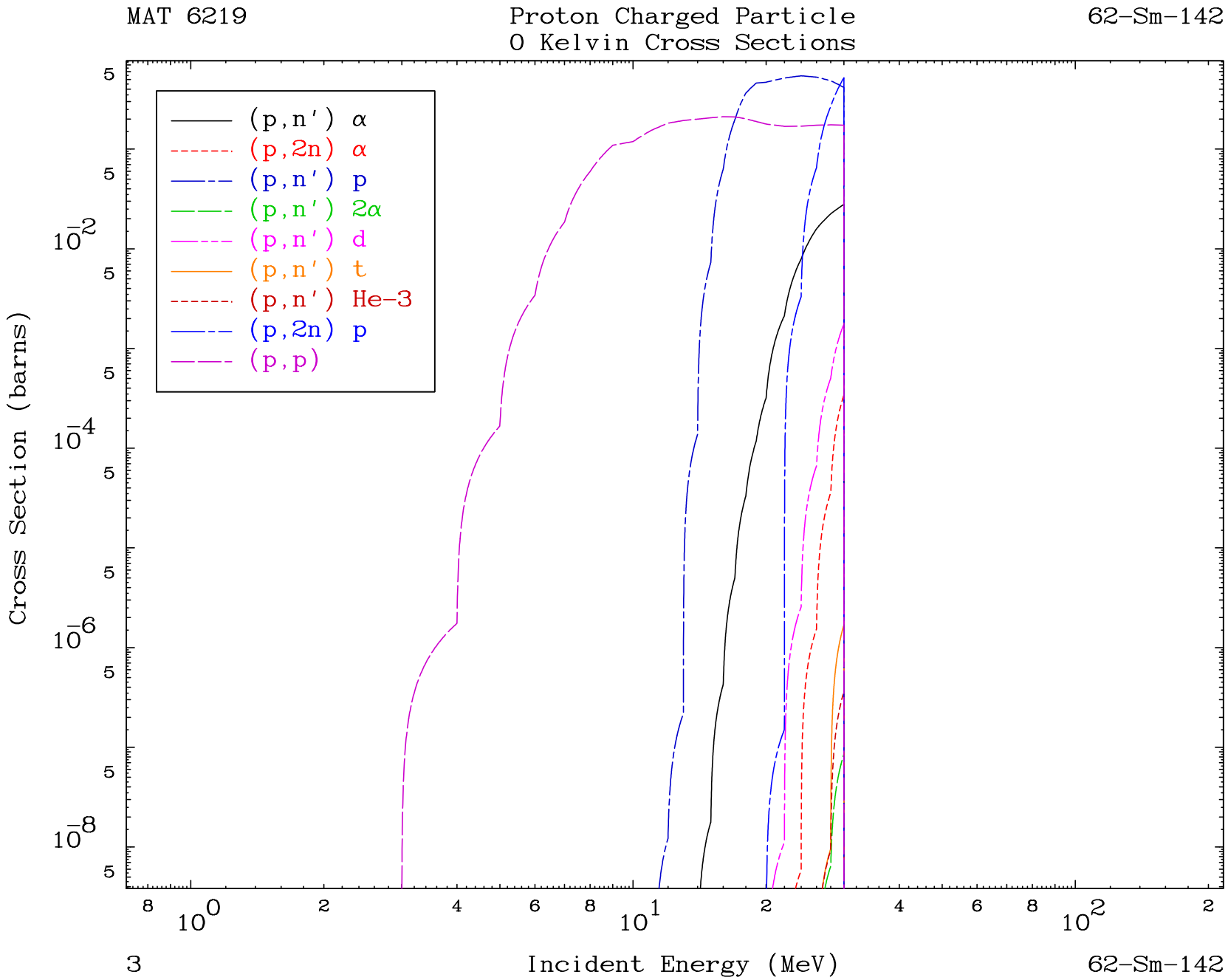
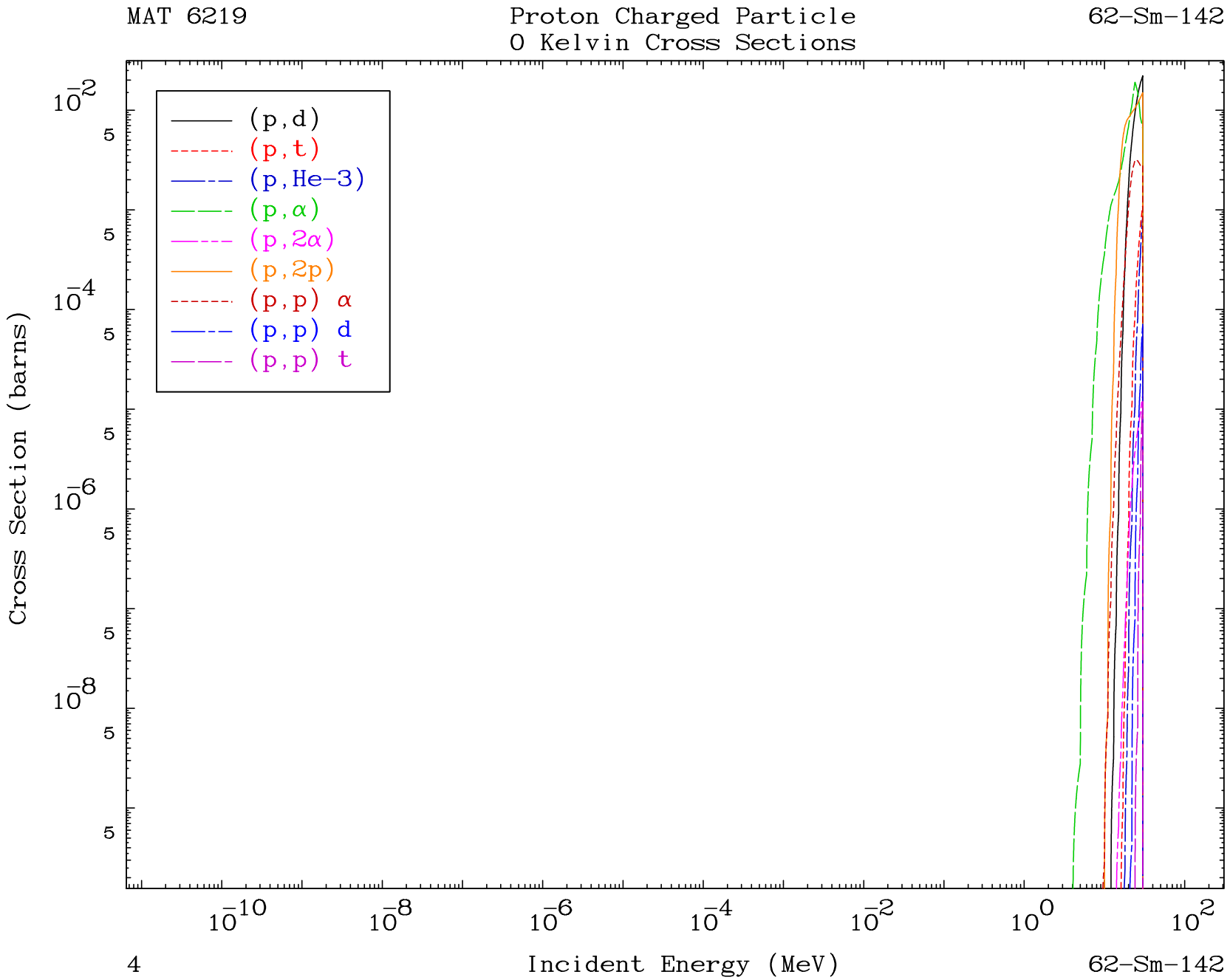
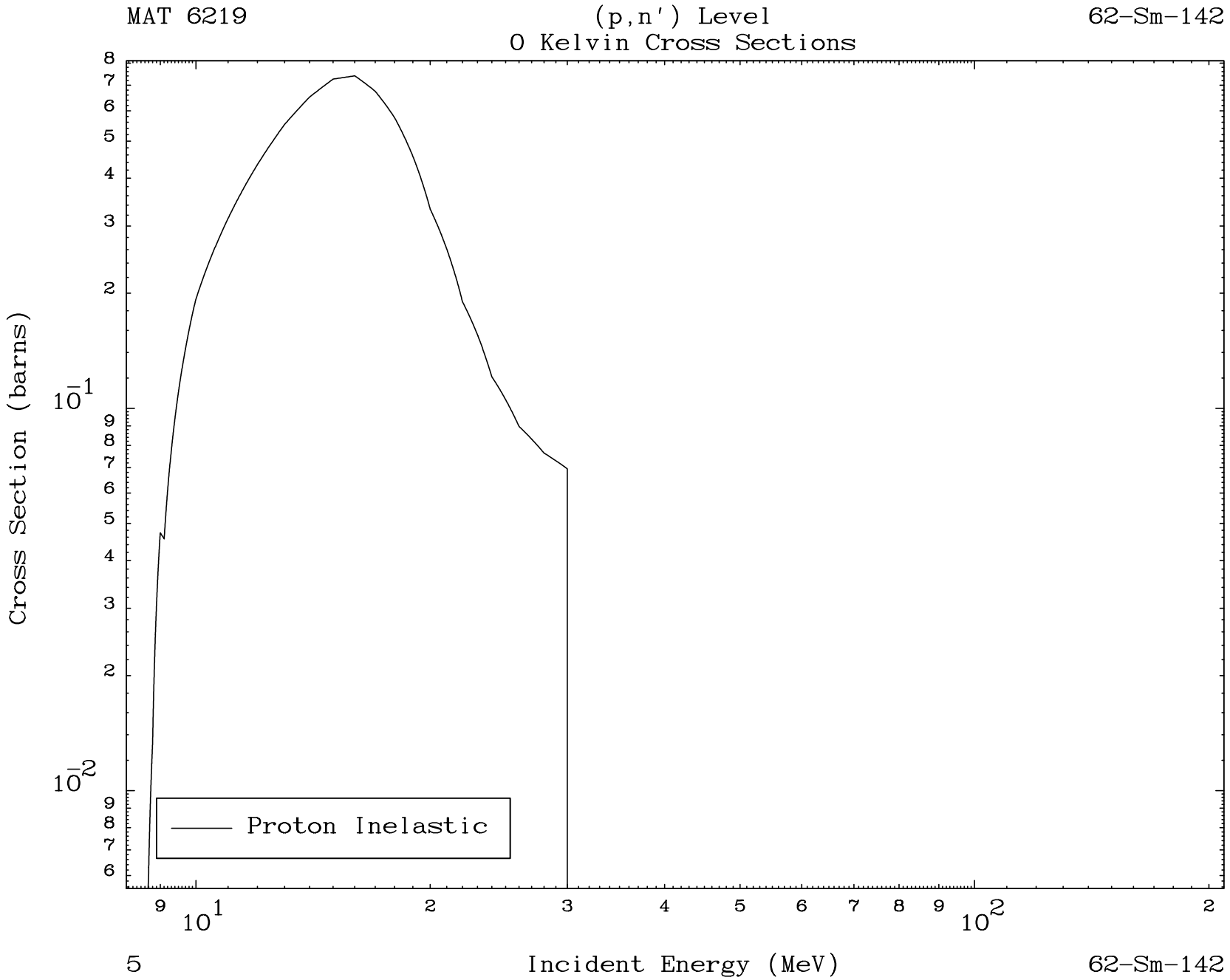
Press Mouse Button to Start

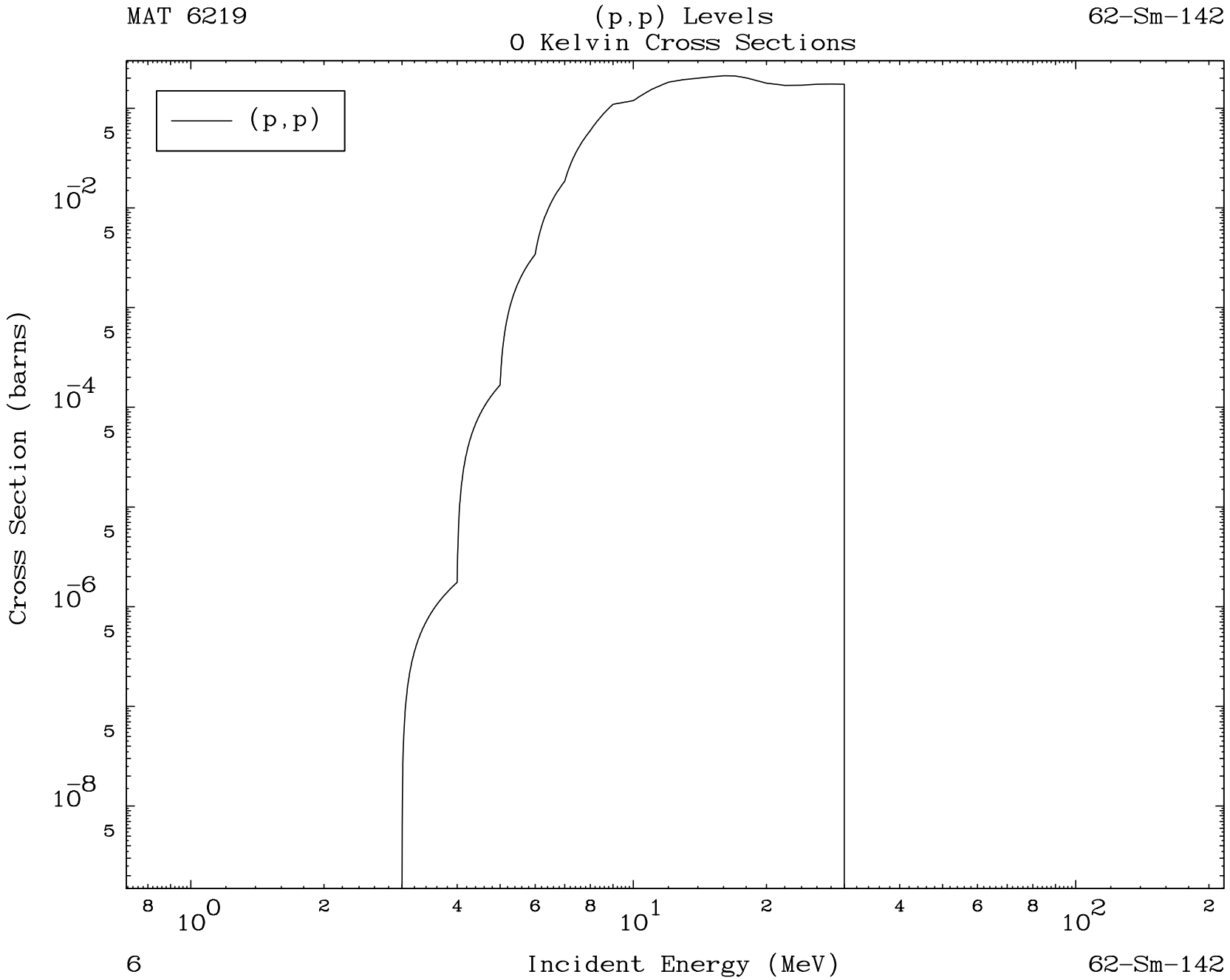

MAT 6219
Proton Major
62-Sm-142
0 Kelvin Cross Sections
Proton Inelastic
(p,remainder)
(p,γ)
Cross Section (barns)
Incident Energy (MeV)
1
62-Sm-142

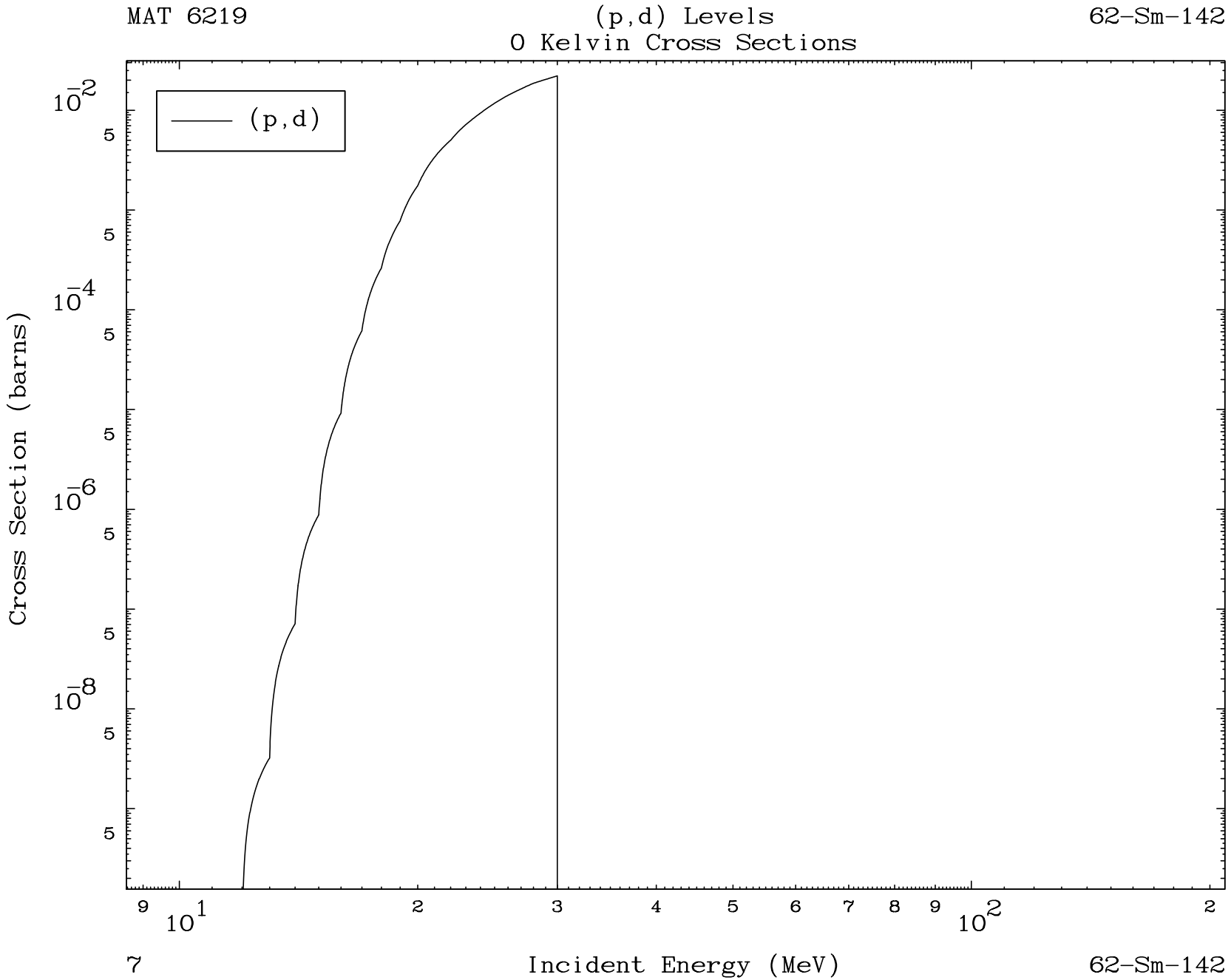

MAT 6219
Proton Neutron Production
0 Kelvin Cross Sections
62-Sm-142
Cross Section (barns)
Incident Energy (MeV)
62-Sm-142
(p,2n)
(p,3n)
(p,n') α
(p,2n) α
(p,n') p
(p,n') 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,2n) p

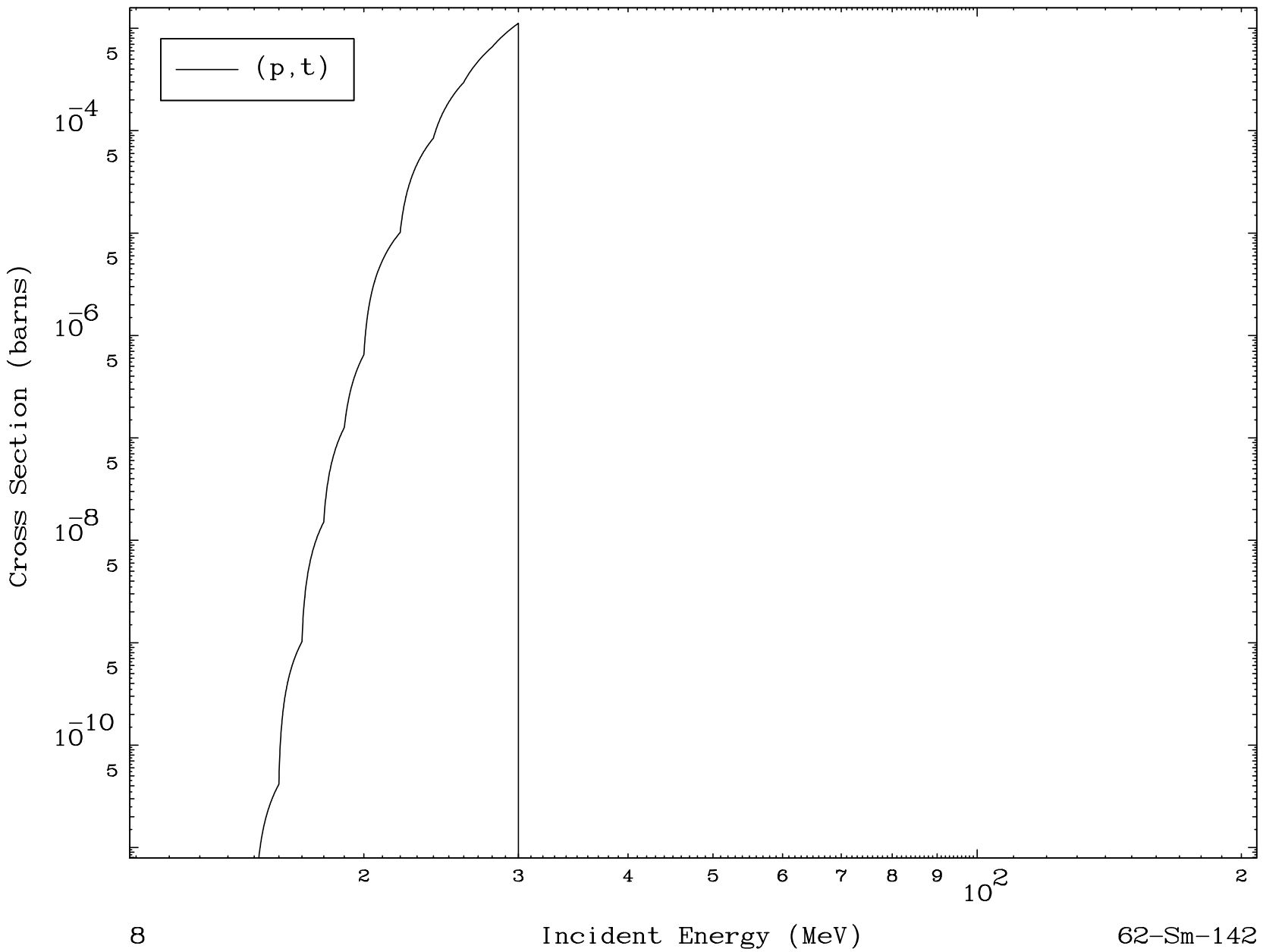

MAT 6219
Proton Charged Particle
0 Kelvin Cross Sections
62-Sm-142
(p,n') α
(p,2n) α
(p,n') p
(p,n') 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,2n) p
(p,p)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-142
3

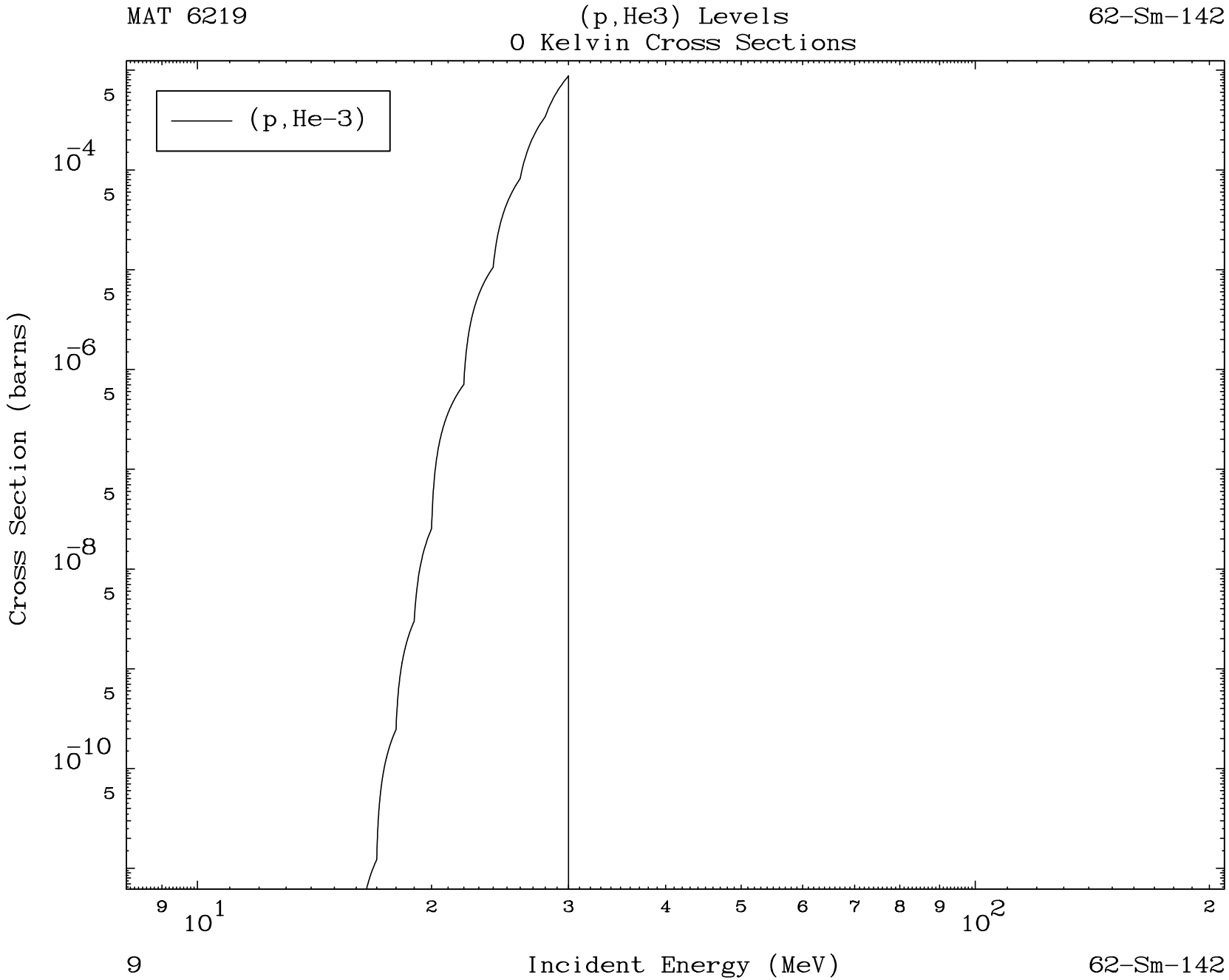

MAT 6219
Proton Charged Particle
0 Kelvin Cross Sections
62-Sm-142
(p,d)
(p,t)
(p,He-3)
(p,α)
(p,2α)
(p,2p)
(p,p) α
(p,p) d
(p,p) t
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-142

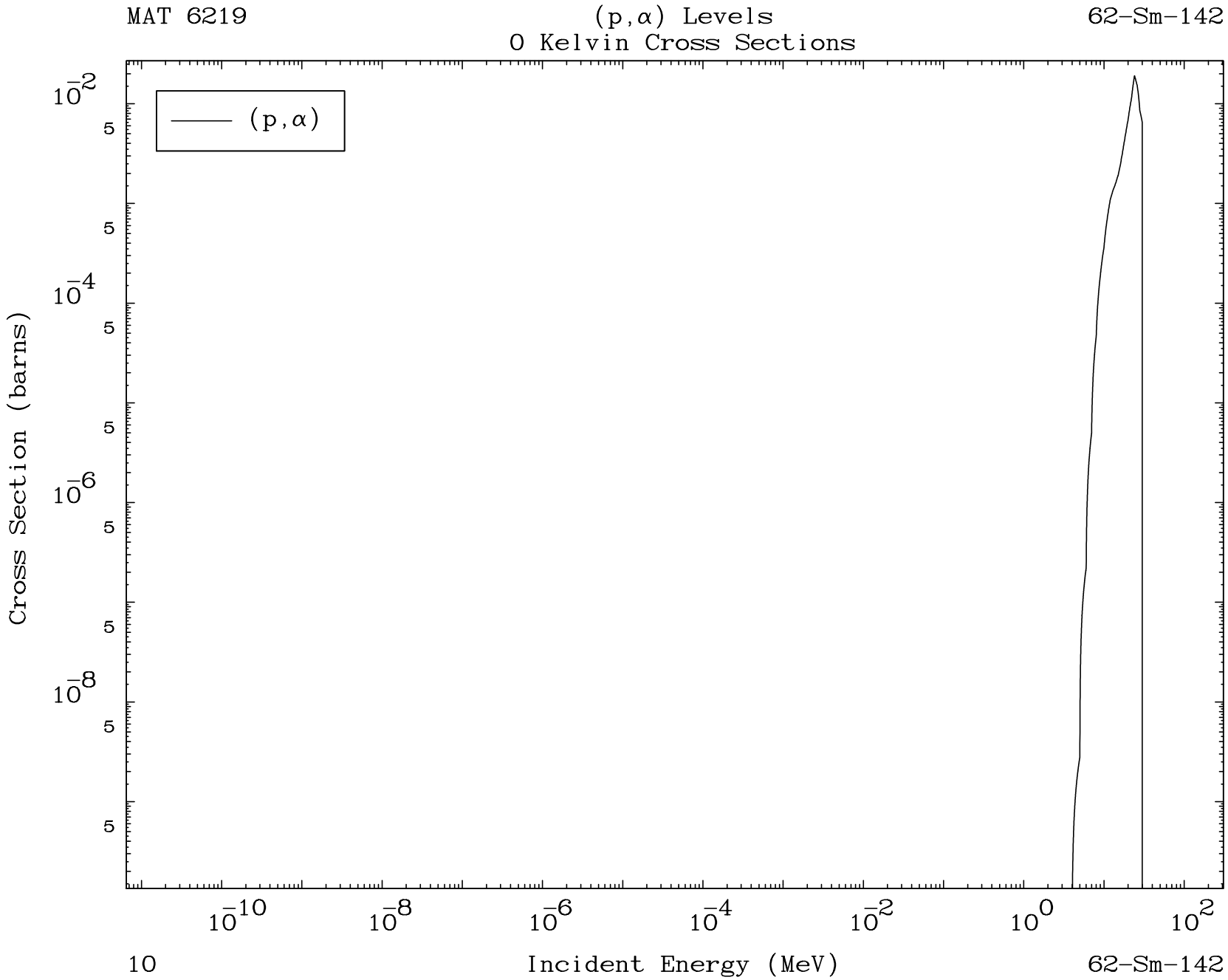

MAT 6219
(p,n') Level
62-Sm-142
0 Kelvin Cross Sections
Cross Section (barns)
Proton Inelastic
Incident Energy (MeV)
62-Sm-142
5

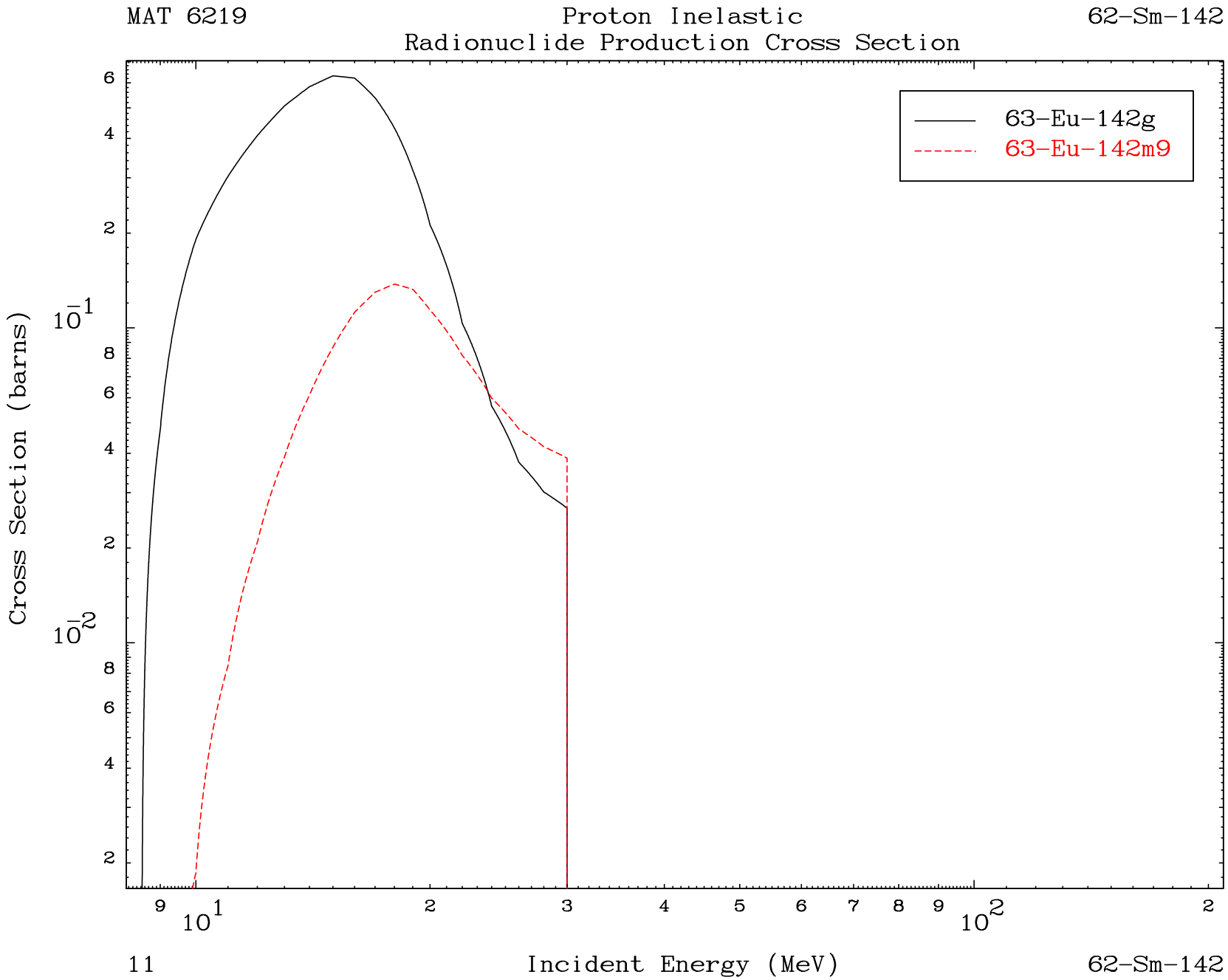

MAT 6219
(p,p) Levels
62-Sm-142
0 Kelvin Cross Sections
(p,p)
Cross Section (barns)
Incident Energy (MeV)
6
62-Sm-142

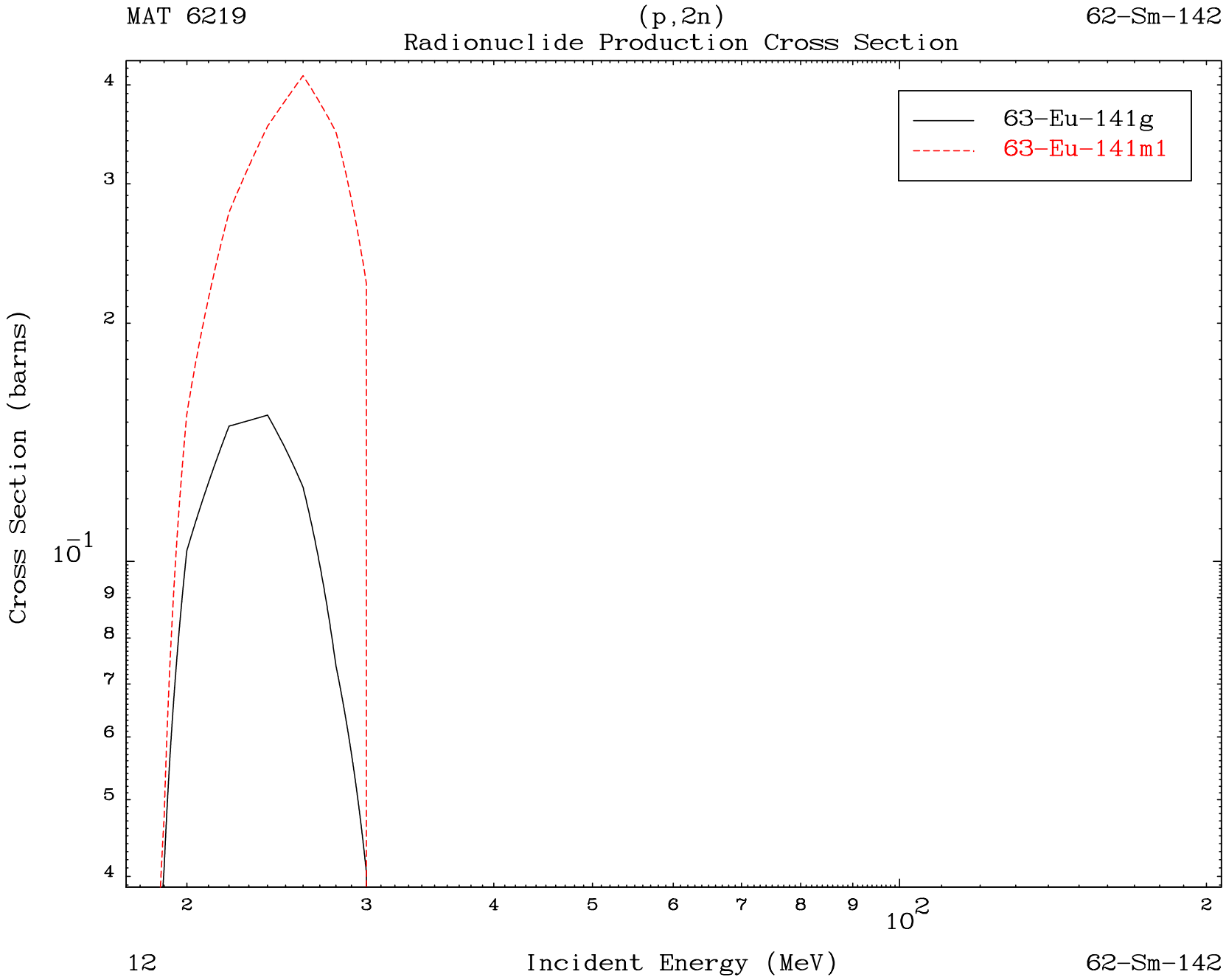

MAT 6219
(p,d) Levels
62-Sm-142
0 Kelvin Cross Sections
(p,d)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
7
62-Sm-142

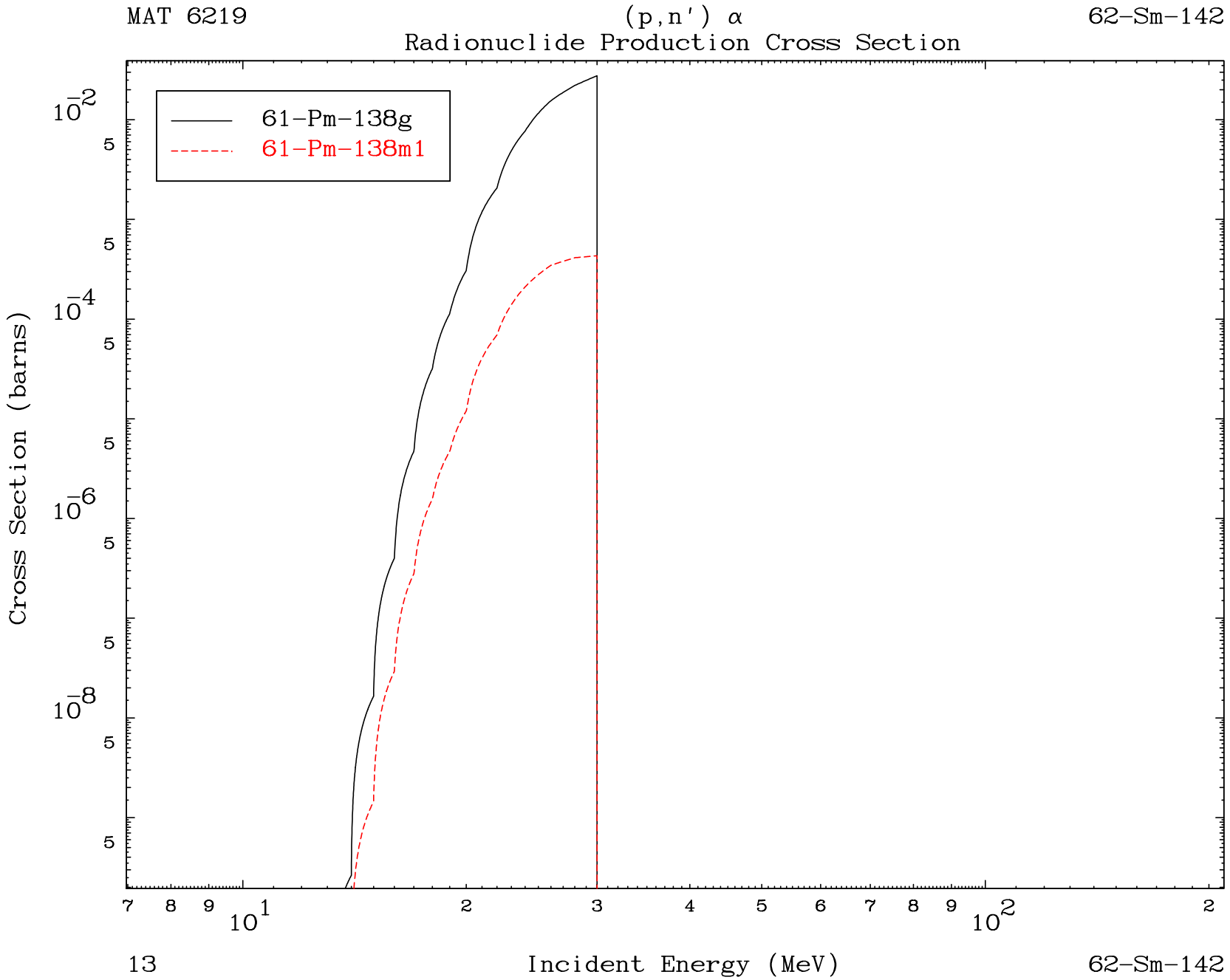

0 Kelvin Cross Sections
(p,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

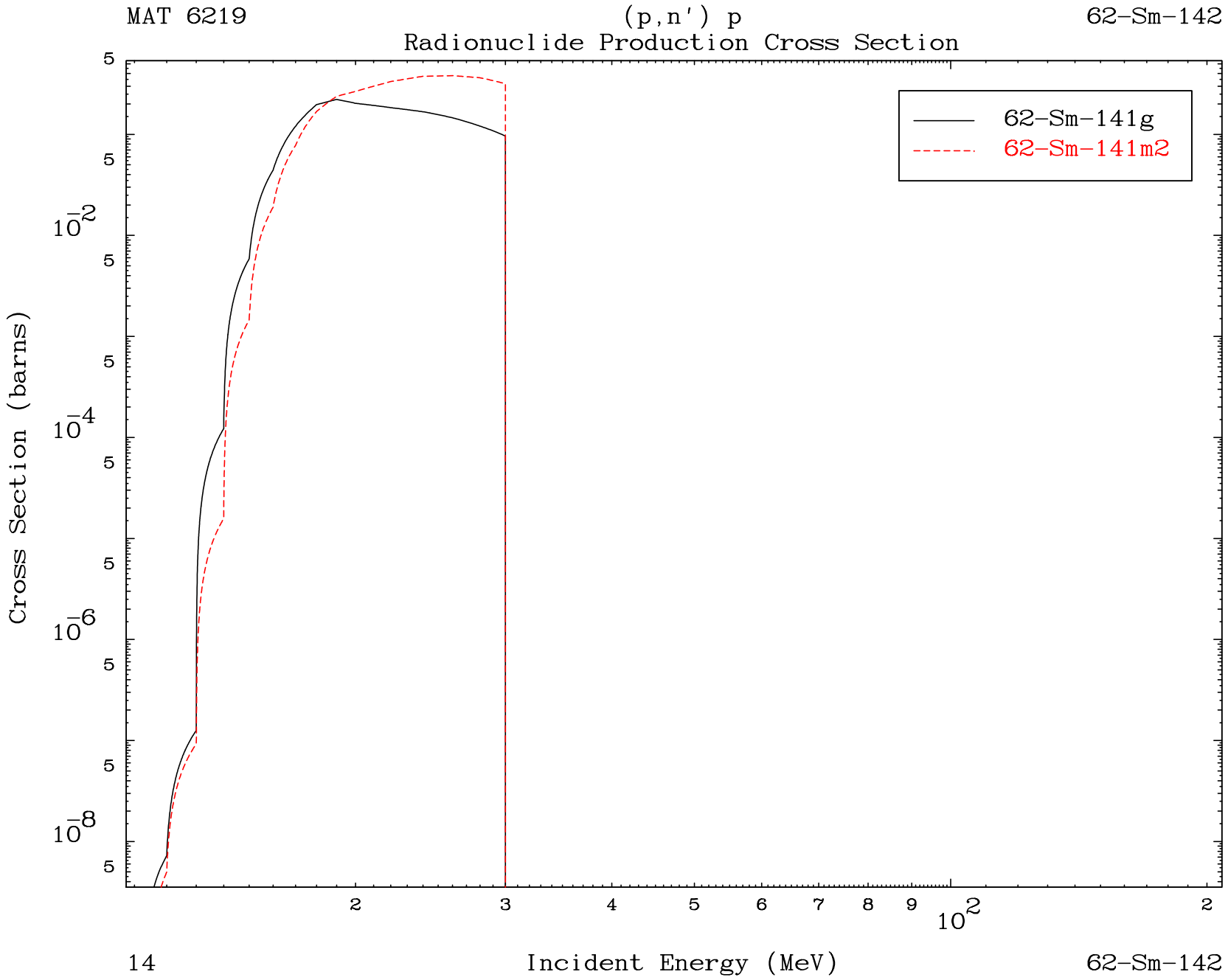

MAT 6219
(p,He3) Levels
62-Sm-142
0 Kelvin Cross Sections
(p,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
62-Sm-142

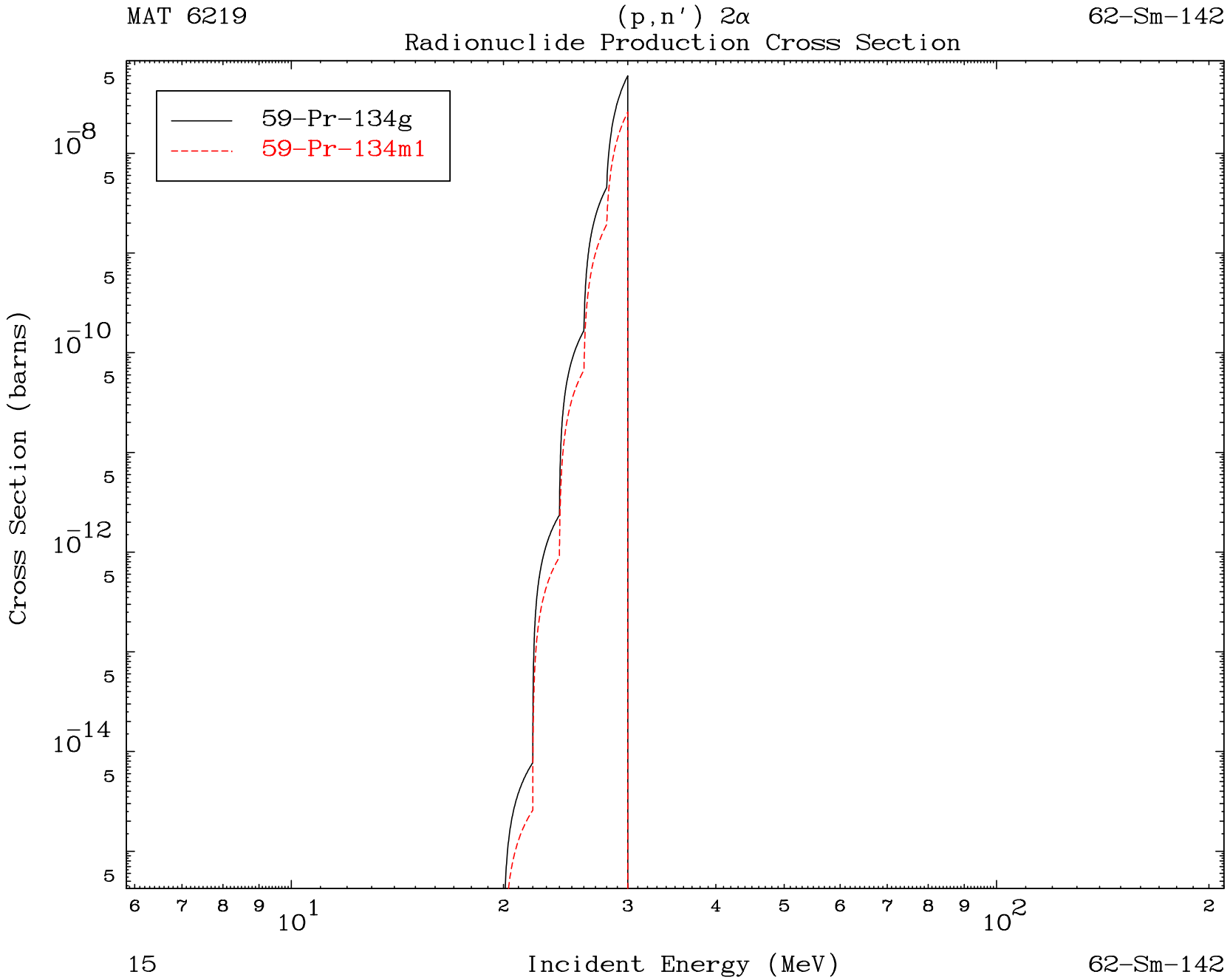

MAT 6219
(p,α) Levels
62-Sm-142
0 Kelvin Cross Sections
(p,α)
Cross Section (barns)
Incident Energy (MeV)
10
62-Sm-142

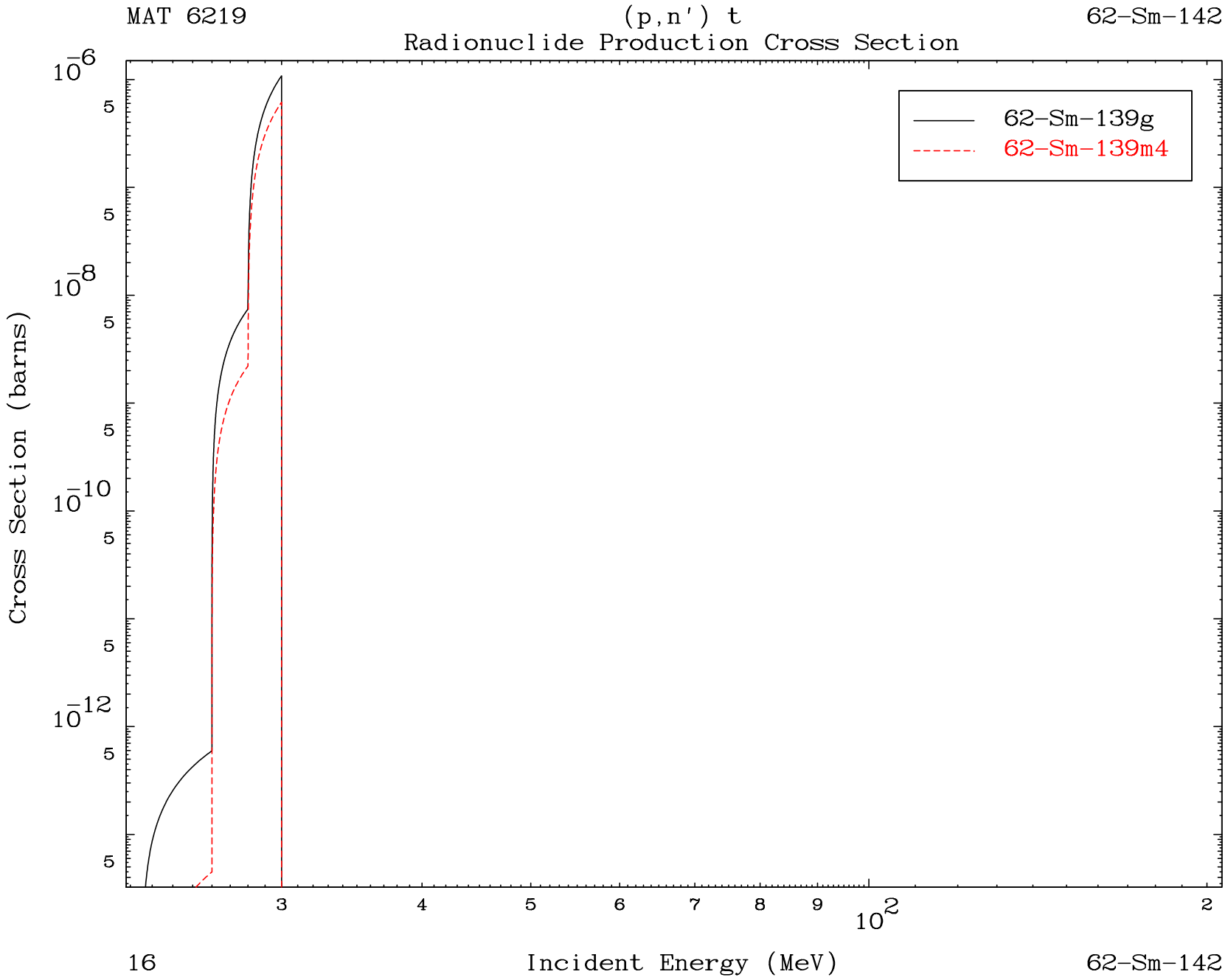

MAT 6219
Proton Inelastic
62-Sm-142
Radionuclide Production Cross Section
63-Eu-142g
63-Eu-142m9
Cross Section (barns)
Incident Energy (MeV)
11
62-Sm-142

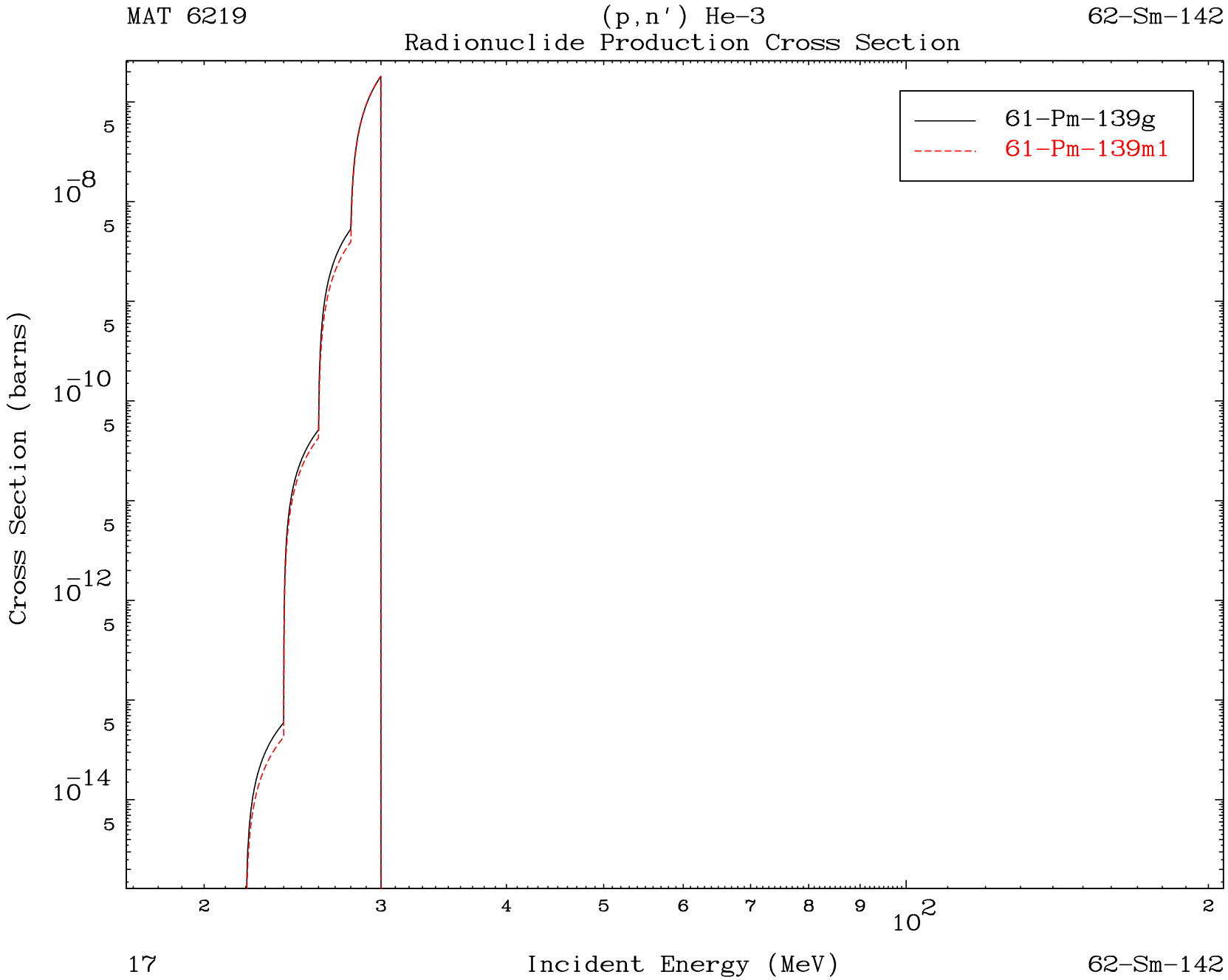

MAT 6219
(p,2n)
62-Sm-142
Radionuclide Production Cross Section
63-Eu-141g
63-Eu-141m1
Cross Section (barns)
10-1
4
3
2
9
8
7
6
5
4
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
62-Sm-142

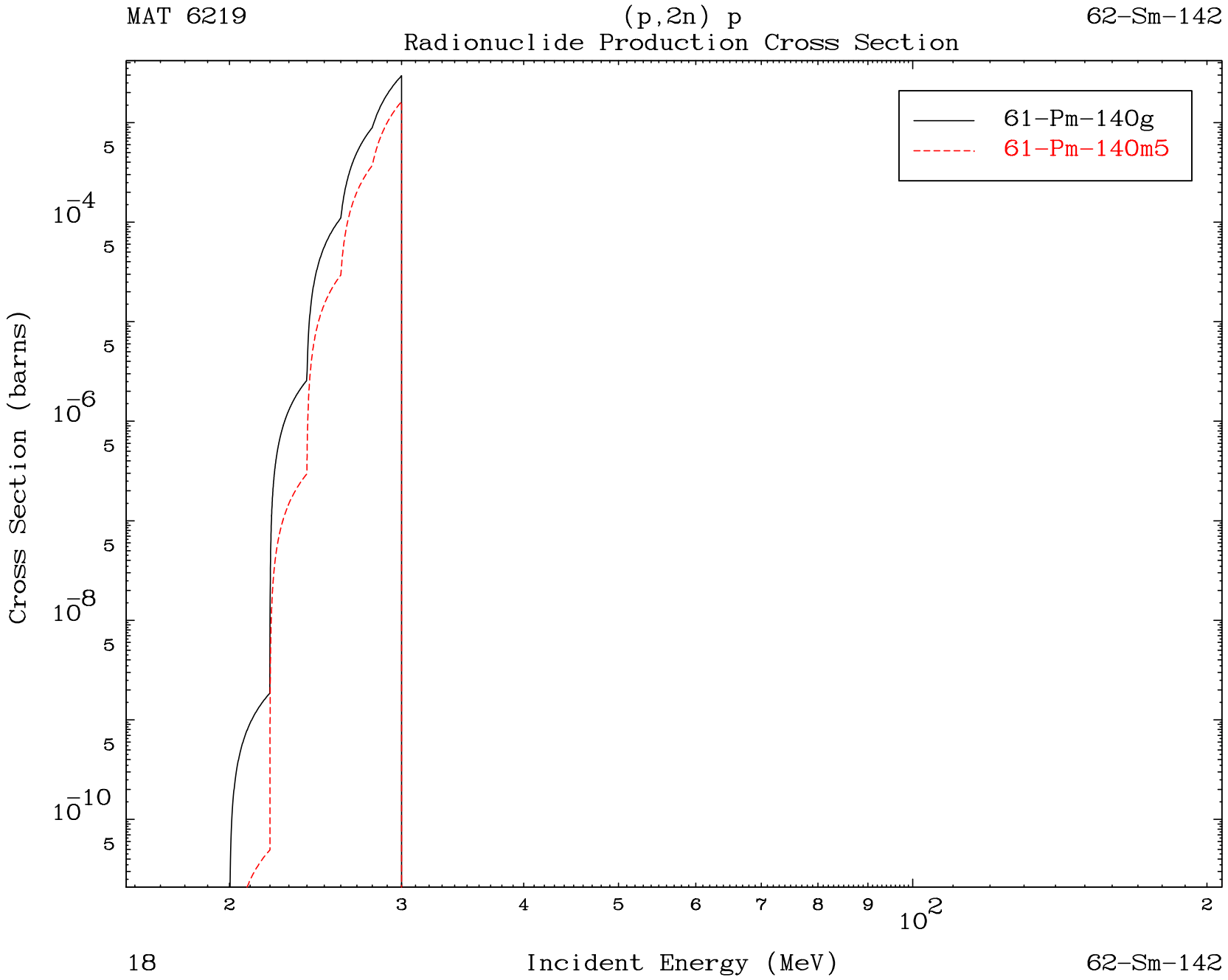

MAT 6219
(p,n') α
62-Sm-142
Radionuclide Production Cross Section
61-Pm-138g
61-Pm-138m1
Cross Section (barns)
Incident Energy (MeV)
13
62-Sm-142

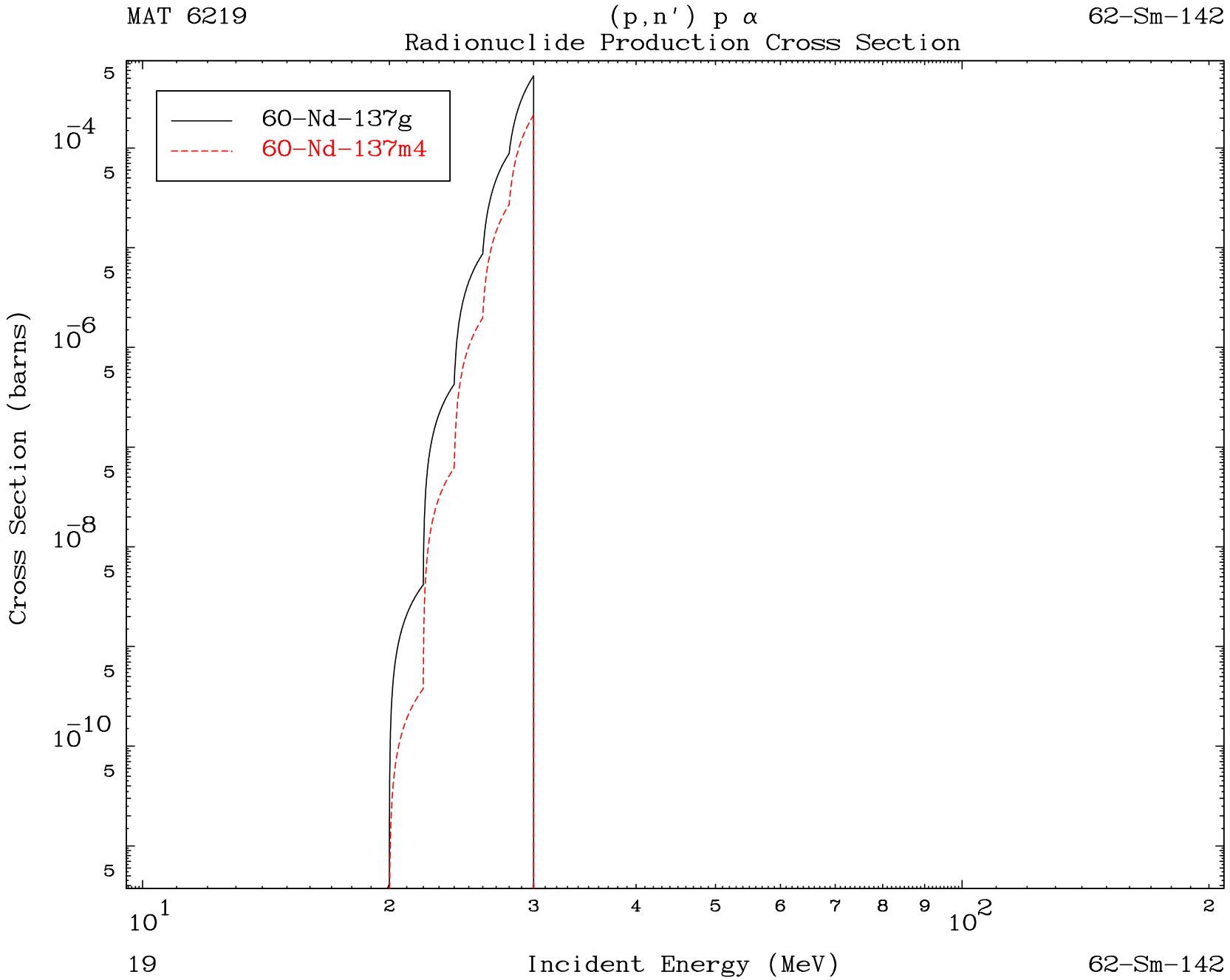

MAT 6219
(p,n') p
62-Sm-142
Radionuclide Production Cross Section
62-Sm-141g
62-Sm-141m2
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
62-Sm-142

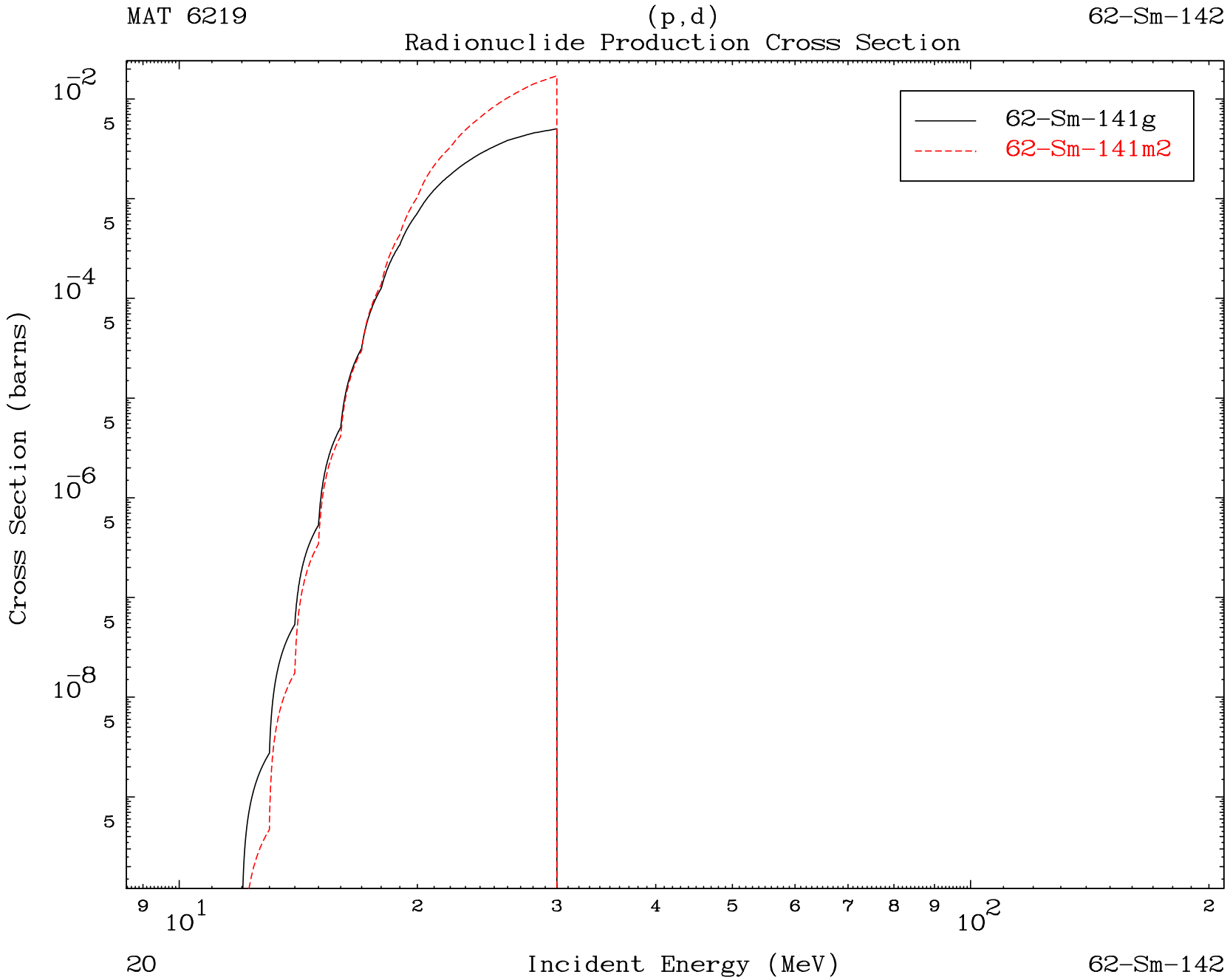

MAT 6219
(p,n') 2α
62-Sm-142
Radionuclide Production Cross Section
59-Pr-134g
59-Pr-134m1
Cross Section (barns)
Incident Energy (MeV)
15
62-Sm-142

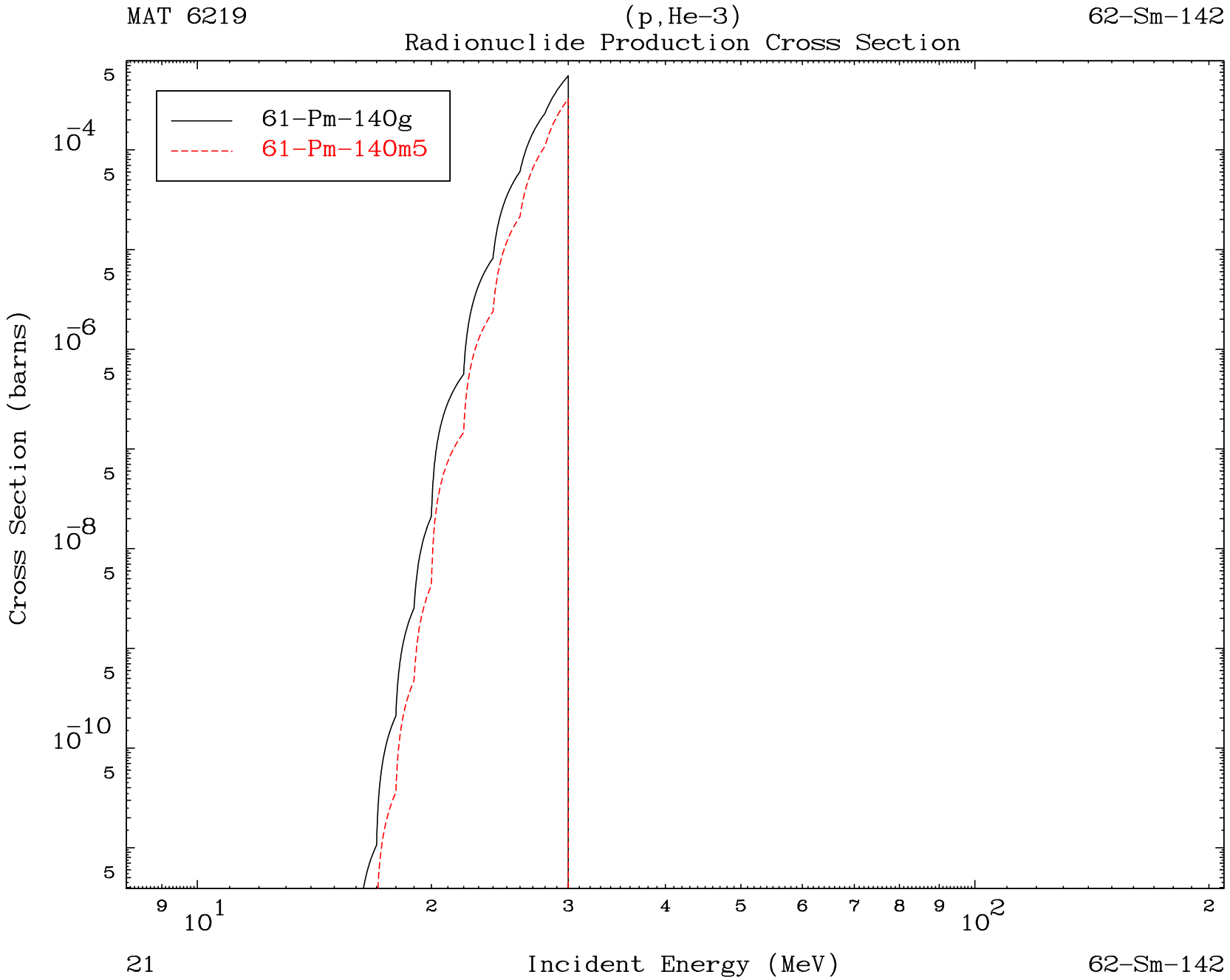

MAT 6219
(p,n') t
62-Sm-142
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
62-Sm-142

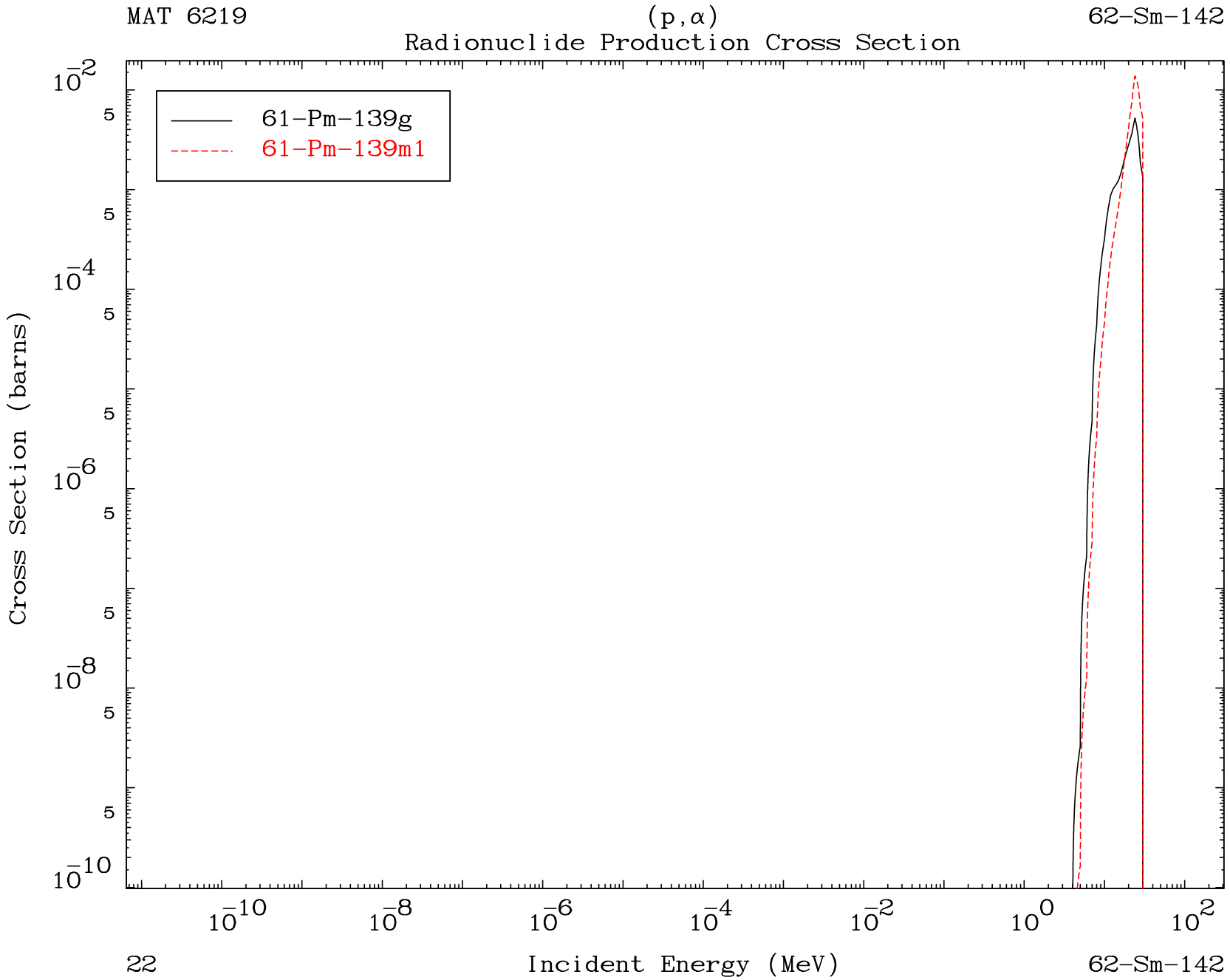

MAT 6219
(p,n') He-3
62-Sm-142
Radionuclide Production Cross Section
61-Pm-139g
61-Pm-139m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
6
7
8
9
10^2
17
Incident Energy (MeV)
62-Sm-142

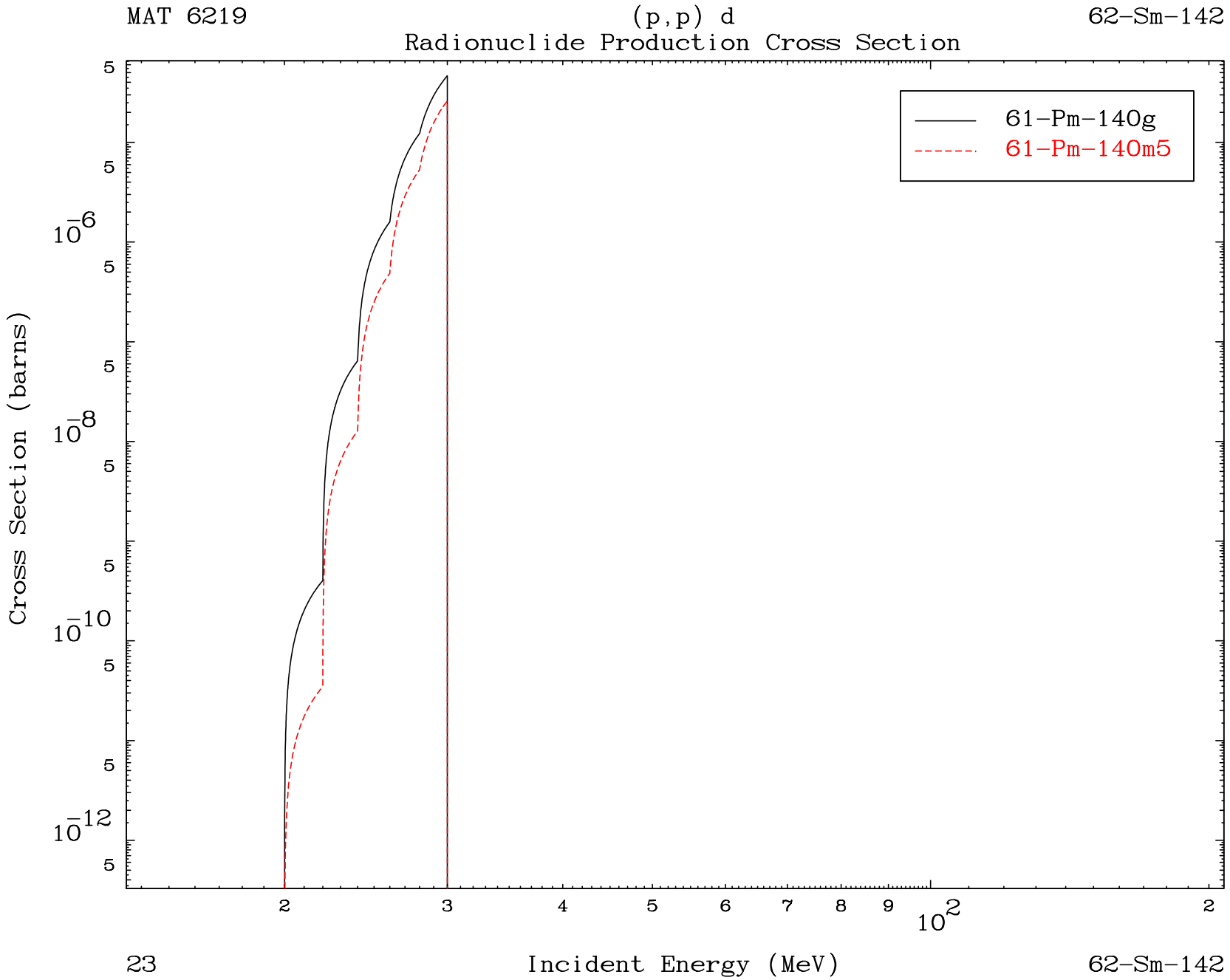

MAT 6219
(p,2n) p
62-Sm-142
Radionuclide Production Cross Section
61-Pm-140g
61-Pm-140m5
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
62-Sm-142

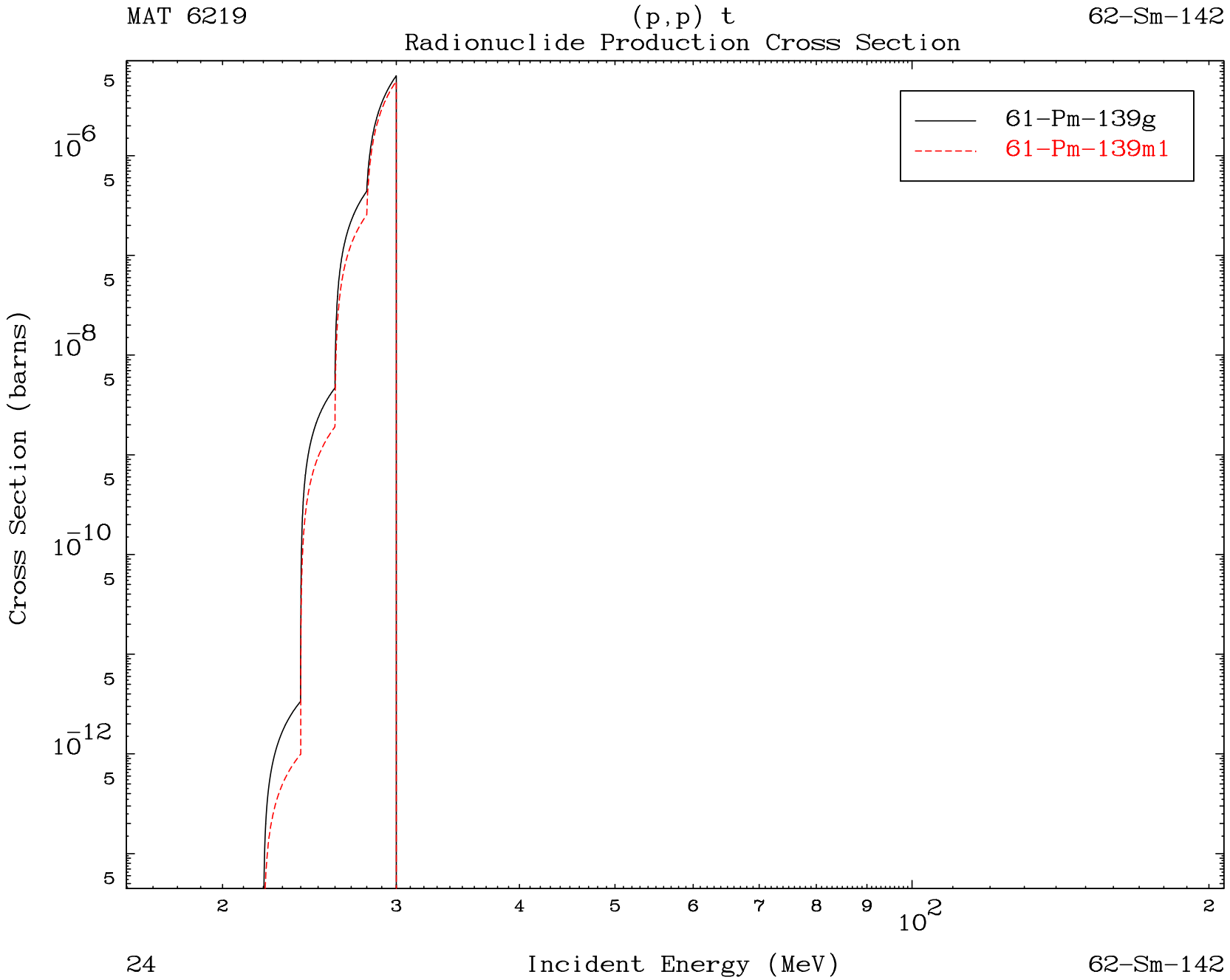

MAT 6219
(p,n') p α
62-Sm-142
Radionuclide Production Cross Section
60-Nd-137g
60-Nd-137m4
Cross Section (barns)
Incident Energy (MeV)
19
62-Sm-142

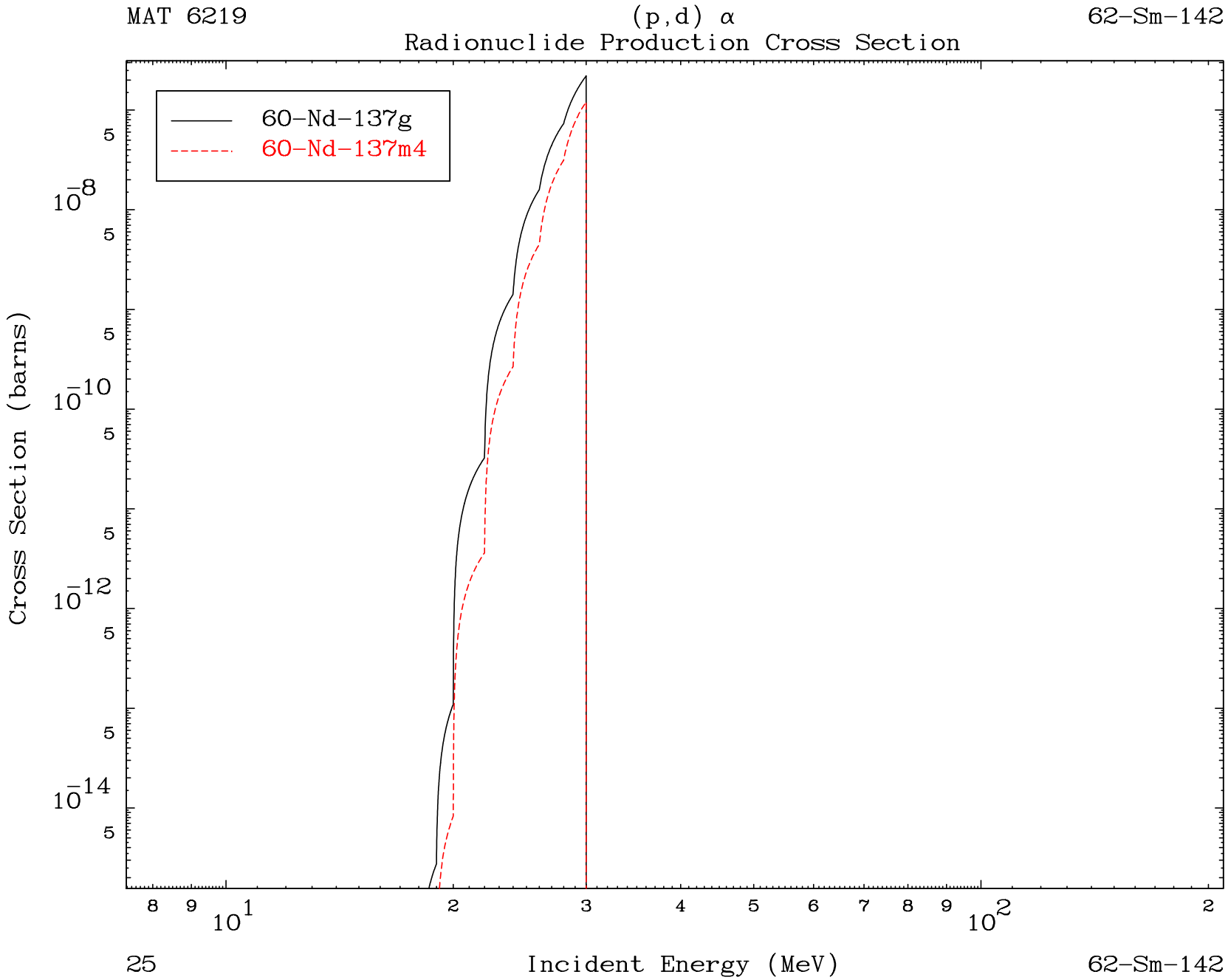

MAT 6219
(p,d)
62-Sm-142
Radionuclide Production Cross Section
62-Sm-141g
62-Sm-141m2
Cross Section (barns)
Incident Energy (MeV)
62-Sm-142
20


MAT 6219
(p,He-3)
62-Sm-142
Radionuclide Production Cross Section
61-Pm-140g
61-Pm-140m5
Cross Section (barns)
Incident Energy (MeV)
21
62-Sm-142


MAT 6219
(p,α)
62-Sm-142
Radionuclide Production Cross Section
61-Pm-139g
61-Pm-139m1
Cross Section (barns)
Incident Energy (MeV)
22
62-Sm-142


MAT 6219
(p,p) d
62-Sm-142
Radionuclide Production Cross Section
61-Pm-140g
61-Pm-140m5
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
62-Sm-142


MAT 6219
(p,p) t
62-Sm-142
Radionuclide Production Cross Section
61-Pm-139g
61-Pm-139m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
24
Incident Energy (MeV)
62-Sm-142


MAT 6219
(p,d) α
62-Sm-142
Radionuclide Production Cross Section
60-Nd-137g
60-Nd-137m4
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
25
Incident Energy (MeV)
62-Sm-142