Program EVALPLOT
(Version 2017-1)
by
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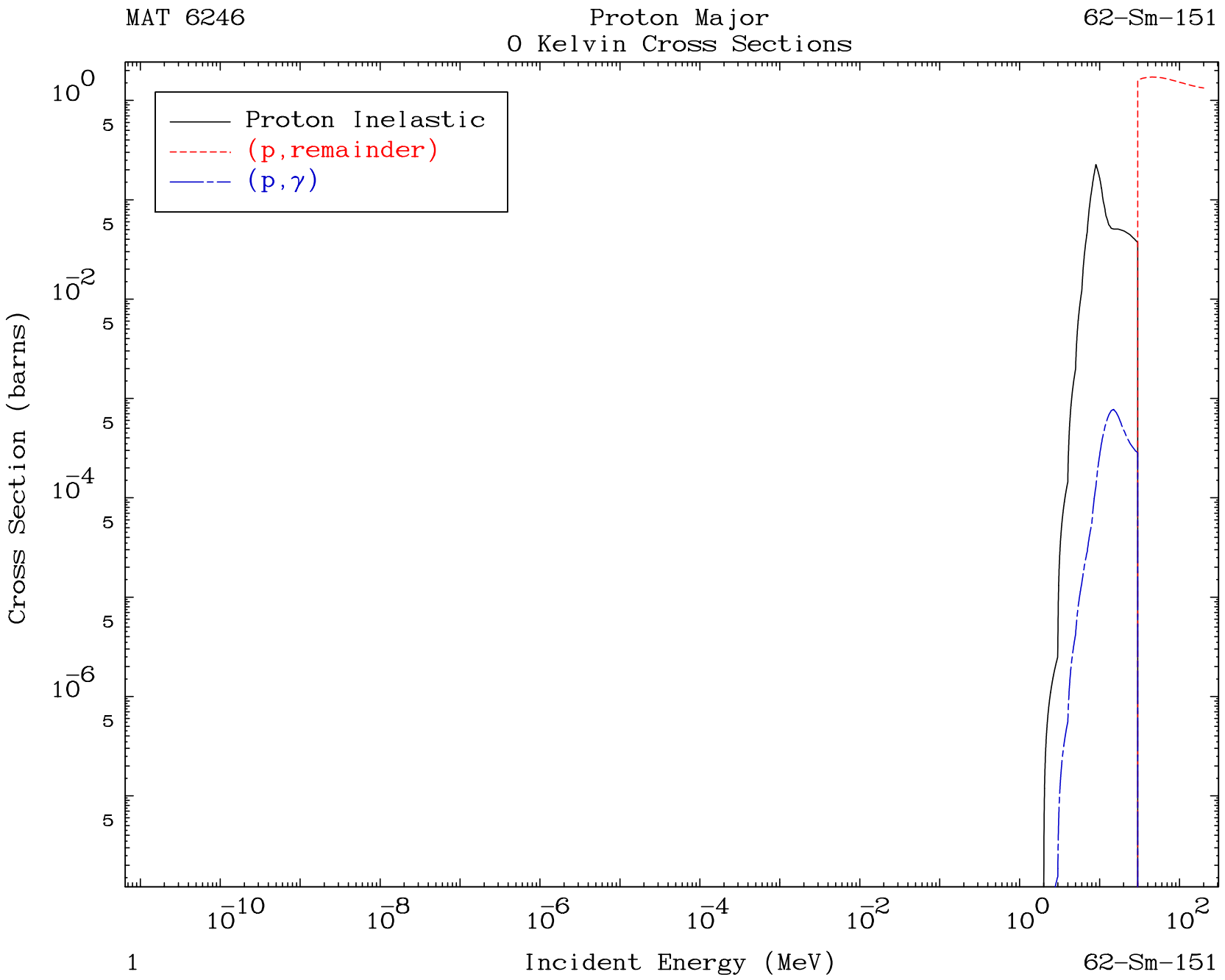
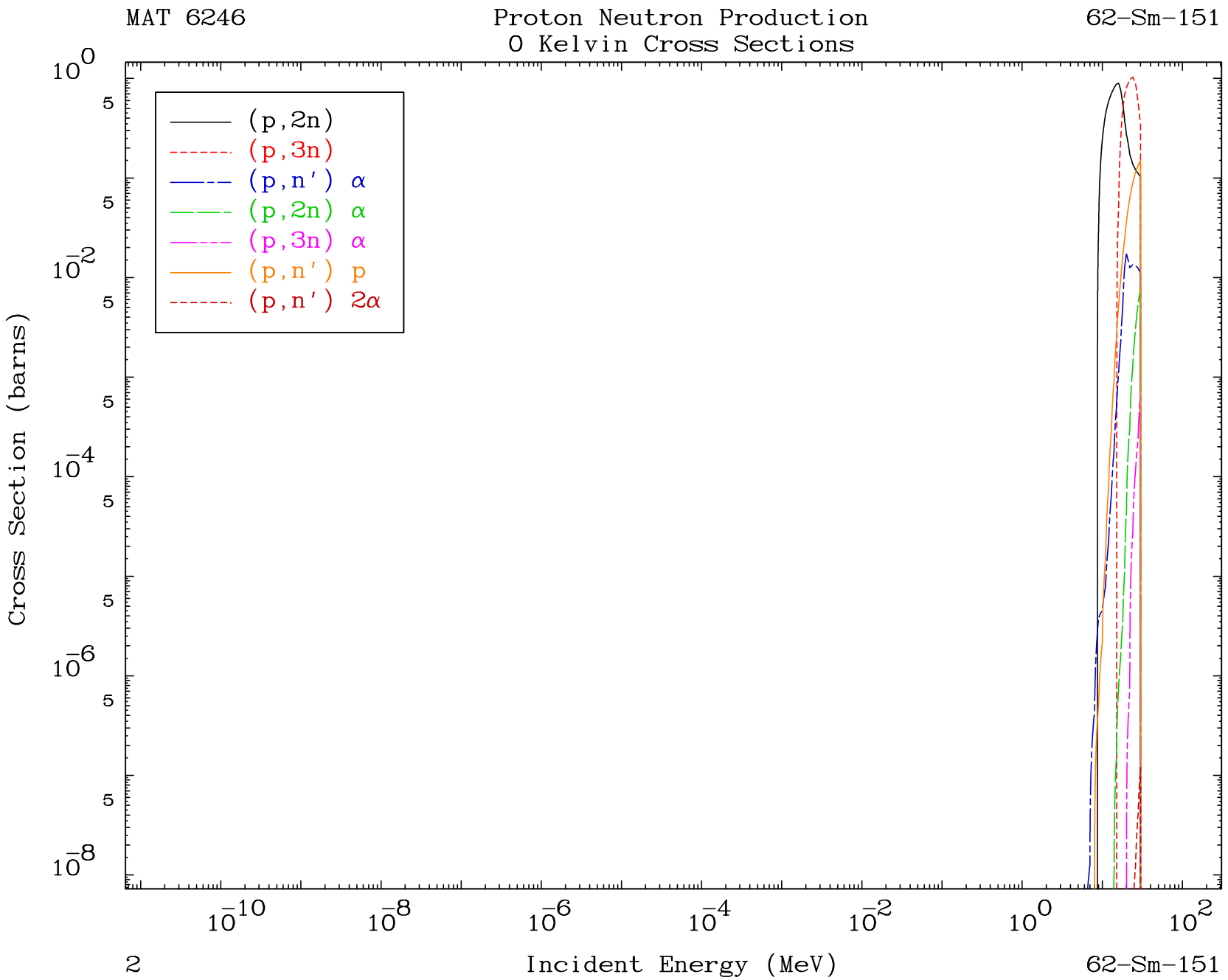
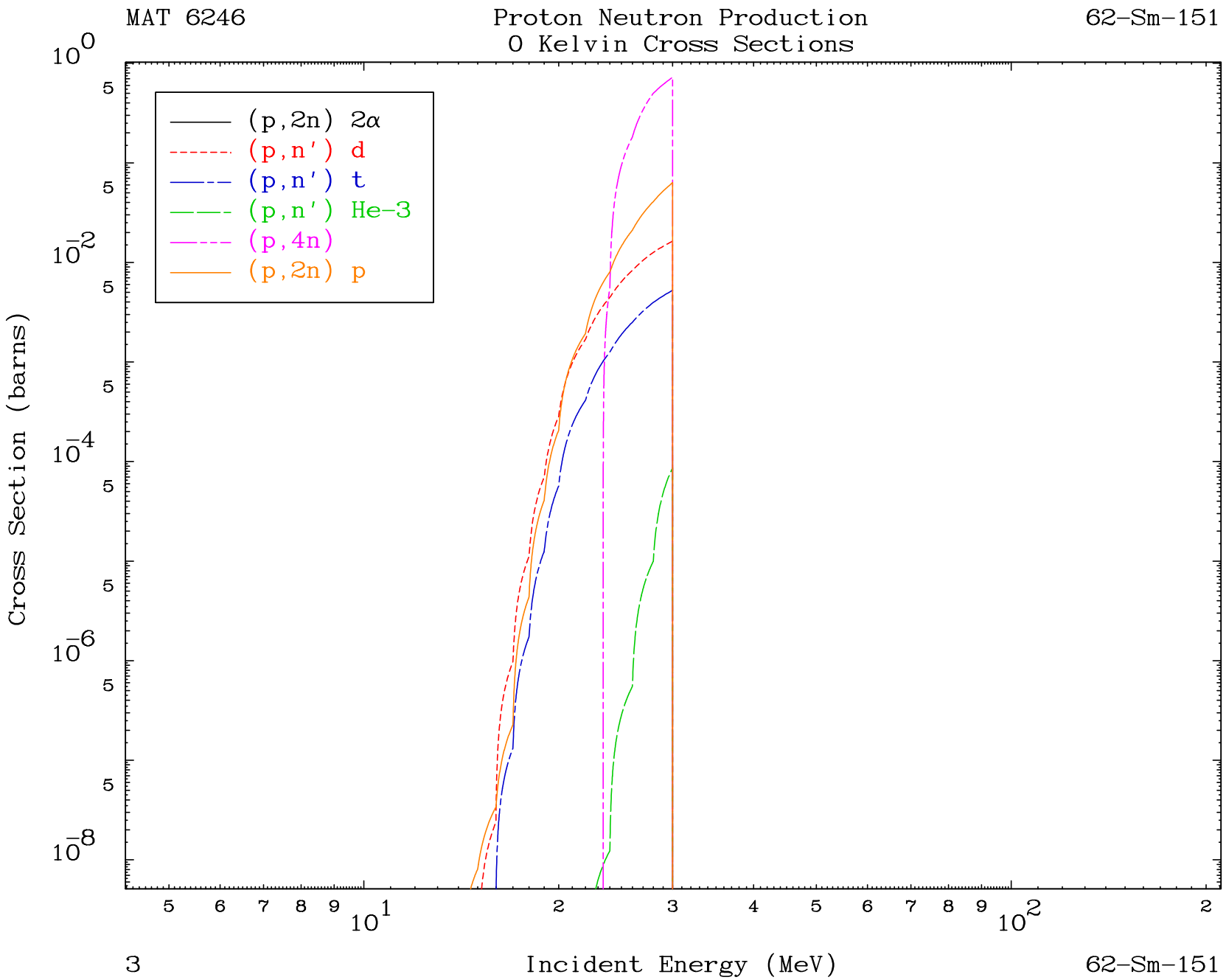
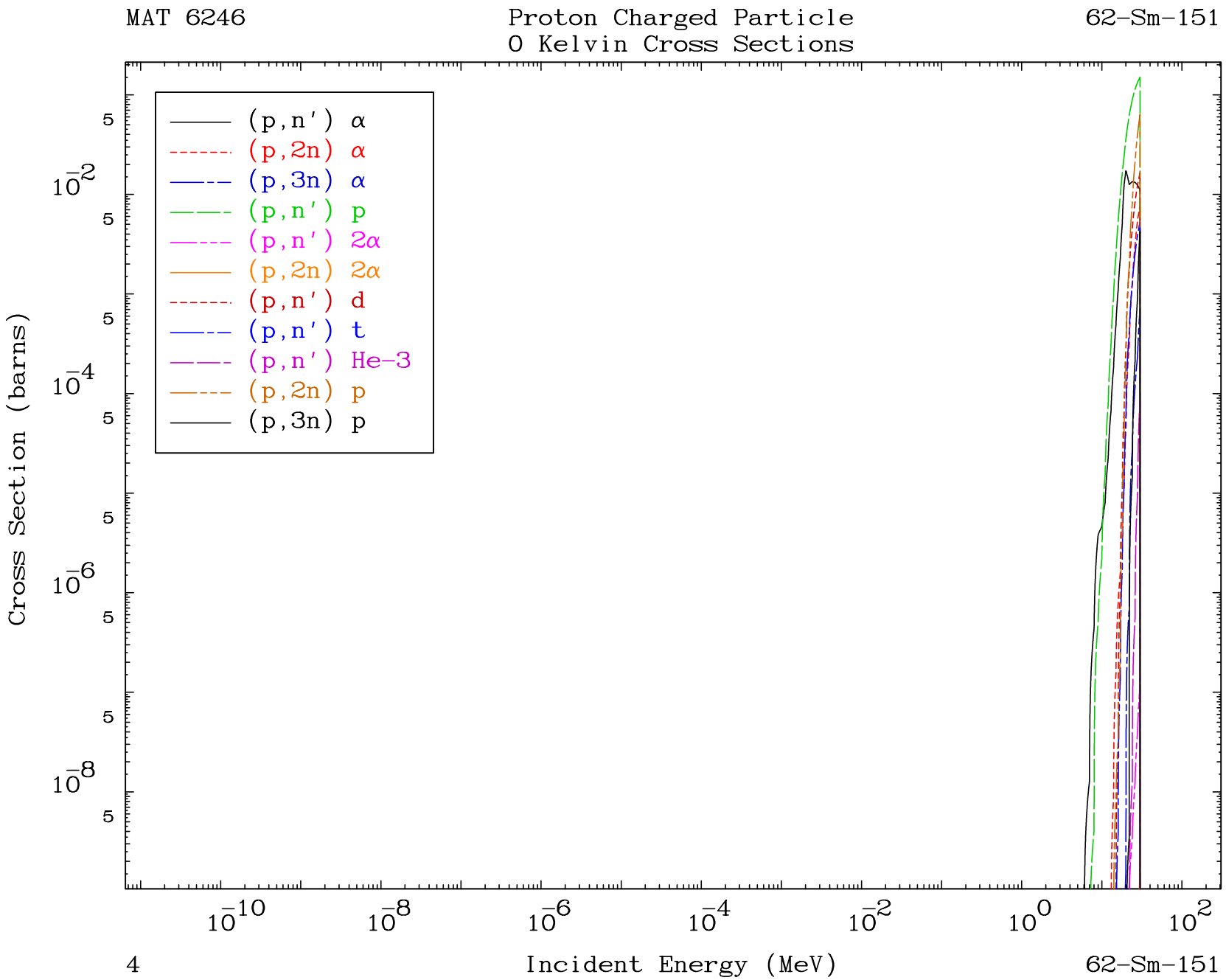
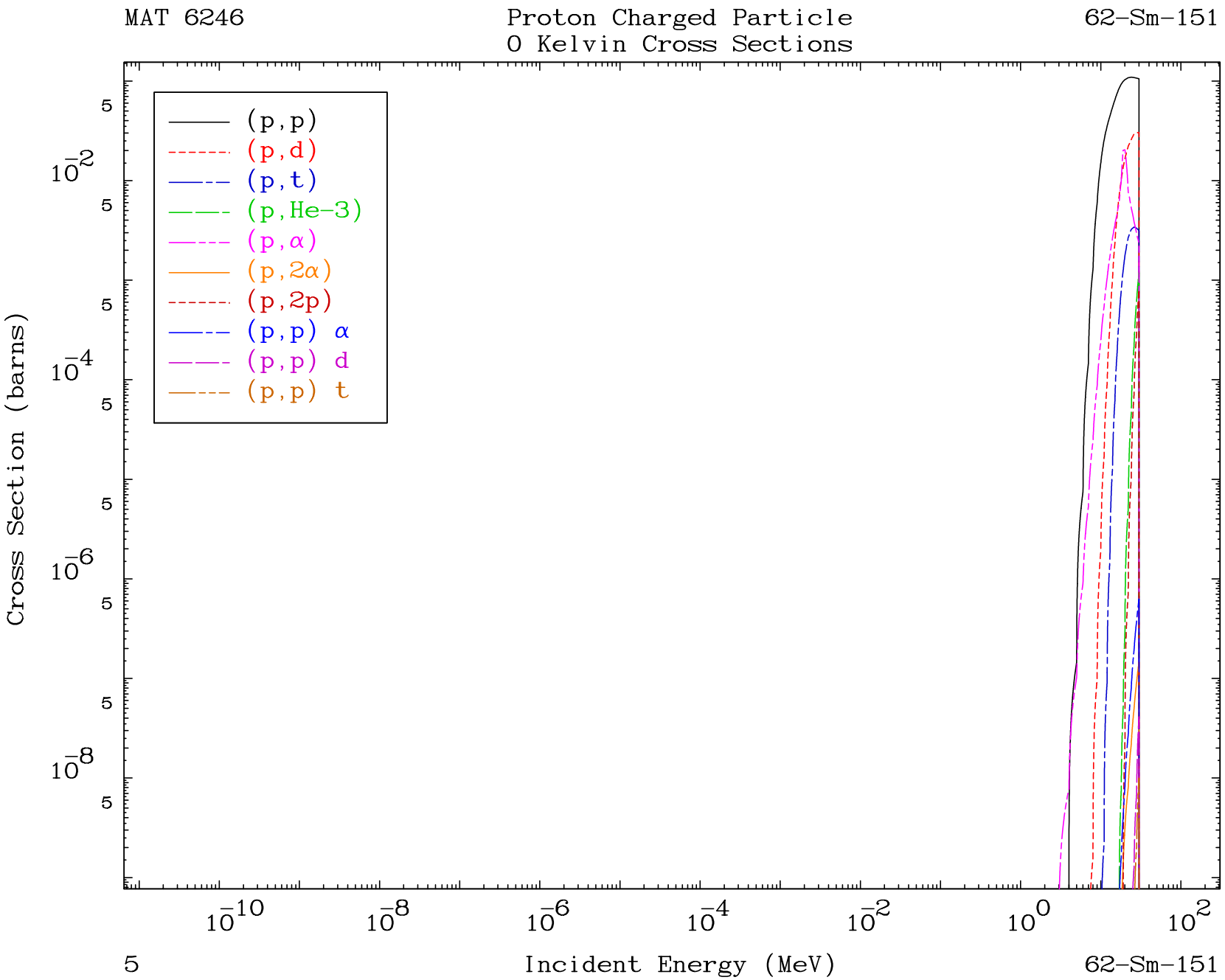
Press Mouse Button to Start

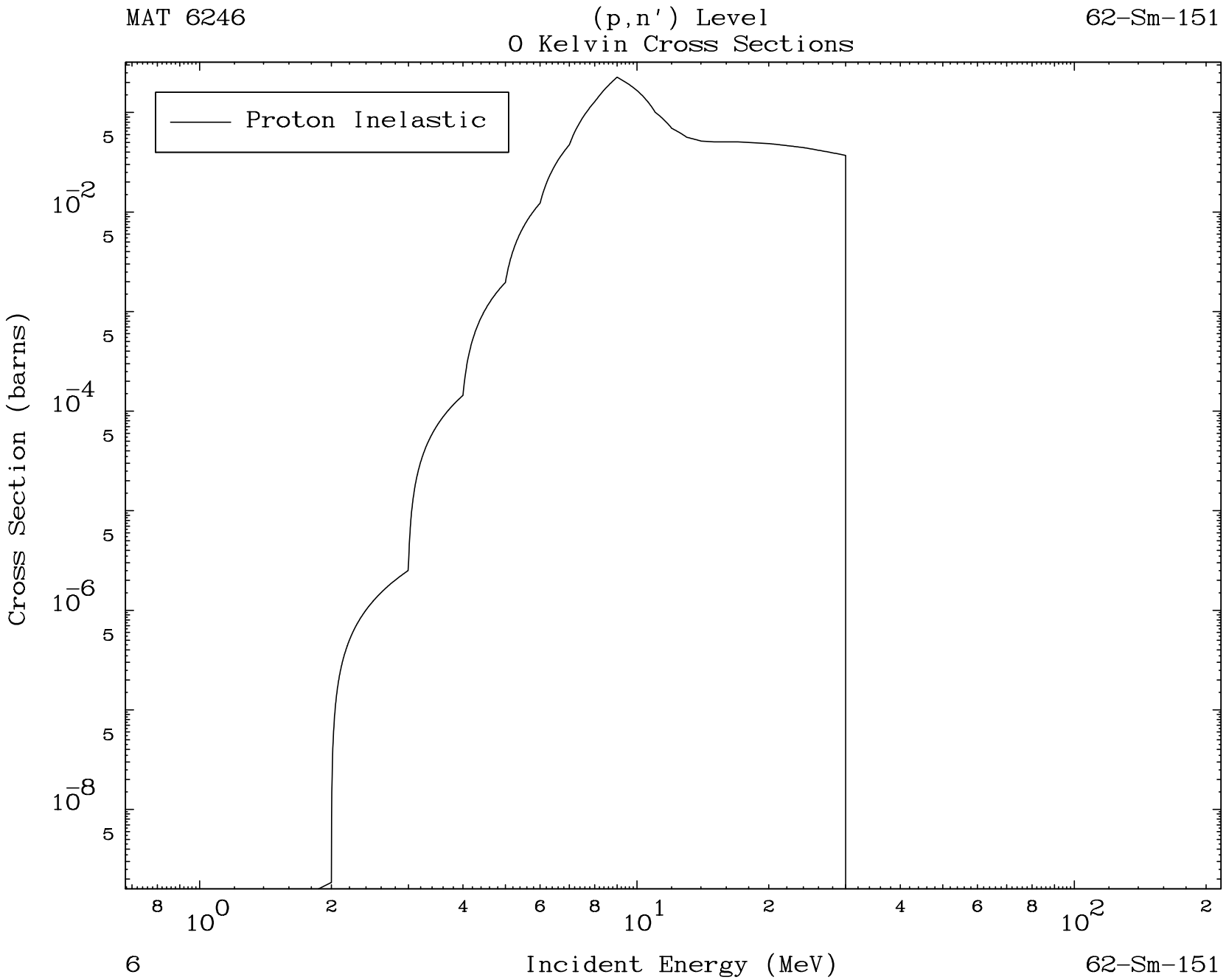

MAT 6246
Proton Major
62-Sm-151
0 Kelvin Cross Sections
Proton Inelastic
(p,remainder)
(p,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-151
1

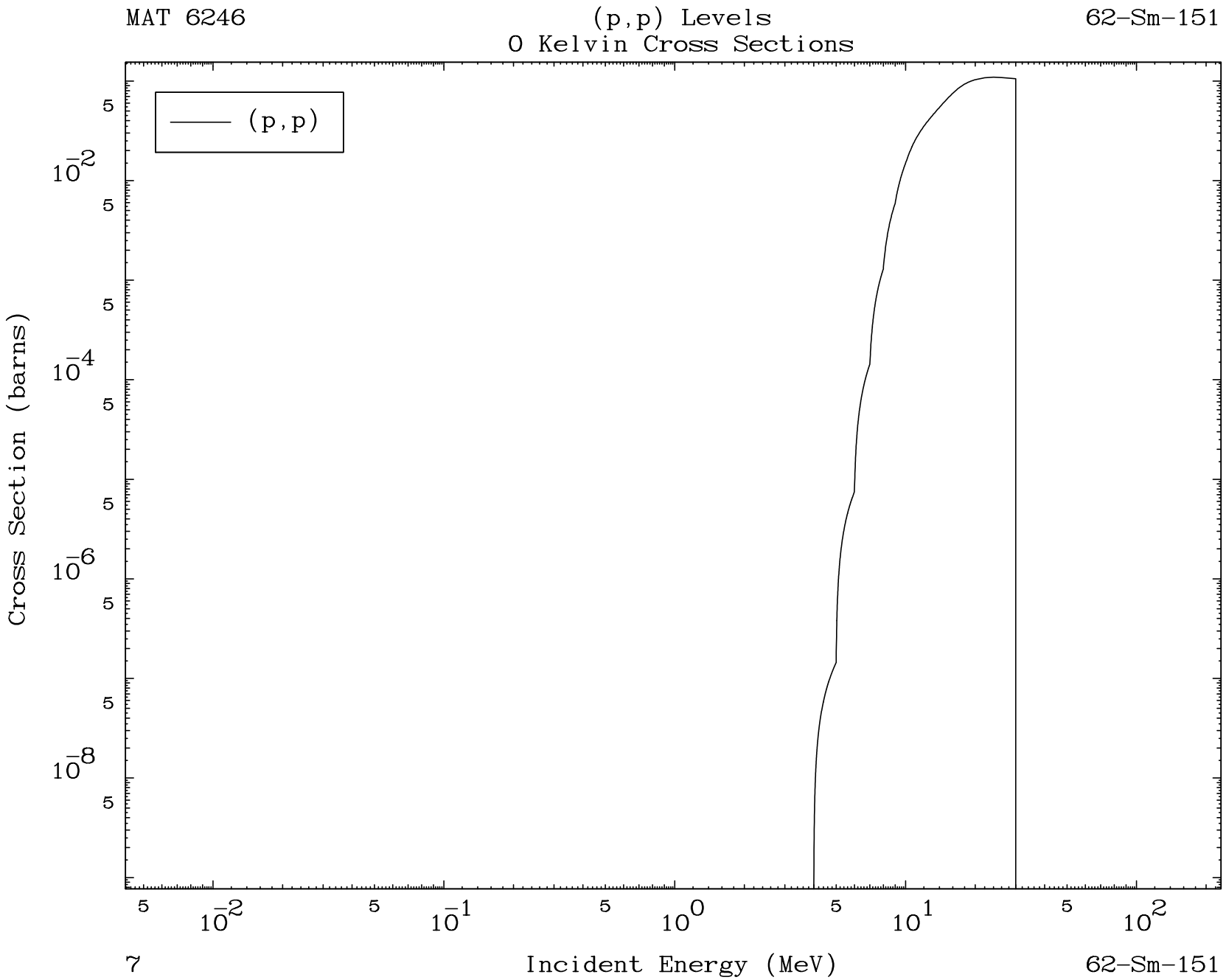

MAT 6246
Proton Neutron Production
0 Kelvin Cross Sections
62-Sm-151
(p,2n)
(p,3n)
(p,n') α
(p,2n) α
(p,3n) α
(p,n') p
(p,n') 2α
Cross Section (barns)
Incident Energy (MeV)
62-Sm-151
2

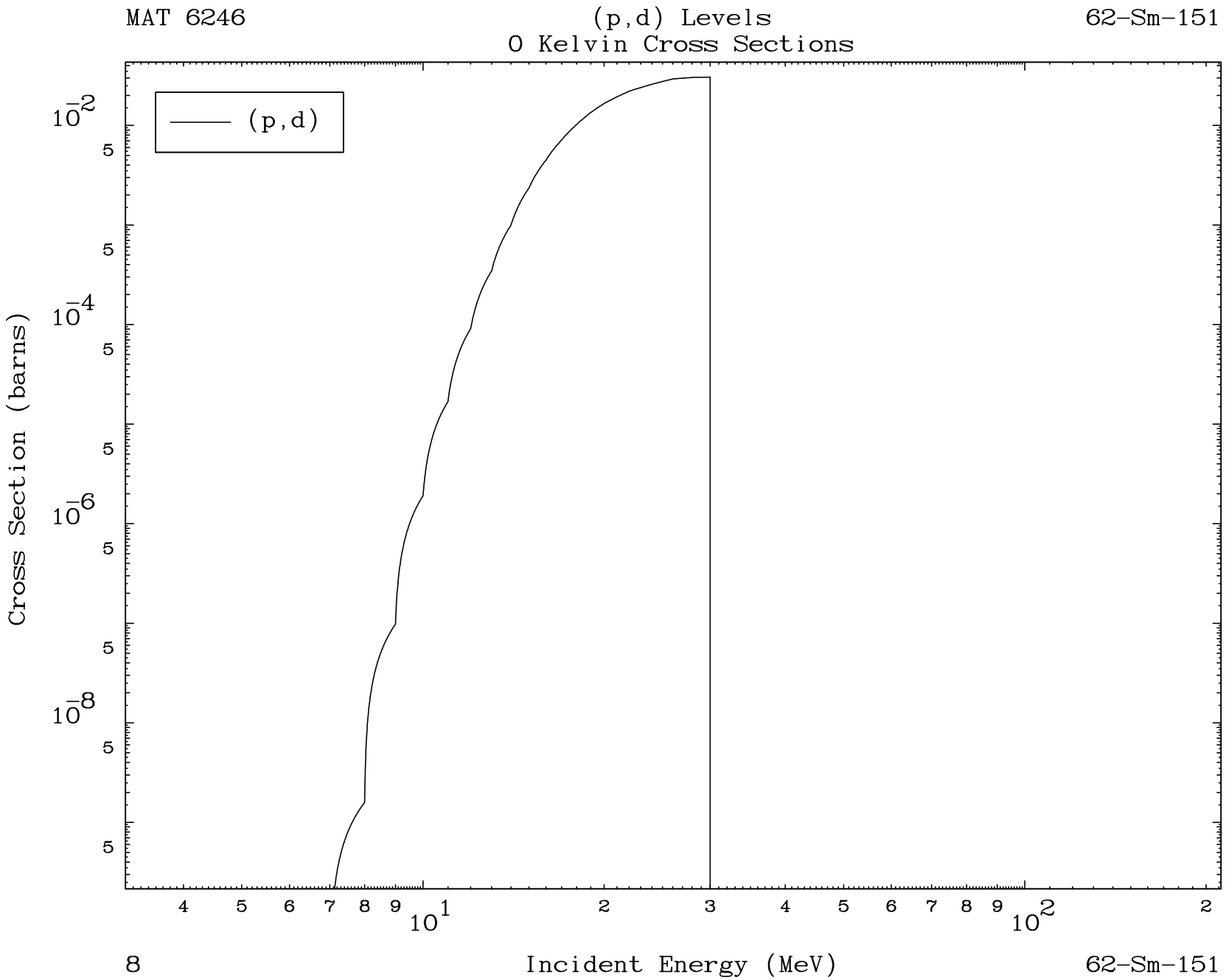

MAT 6246
Proton Neutron Production
0 Kelvin Cross Sections
62-Sm-151
(p,2n) 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,4n)
(p,2n) p
Cross Section (barns)
Incident Energy (MeV)
62-Sm-151
3


MAT 6246
Proton Charged Particle
0 Kelvin Cross Sections
62-Sm-151
(p,n') α
(p,2n) α
(p,3n) α
(p,n') p
(p,n') 2α
(p,2n) 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,2n) p
(p,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-151

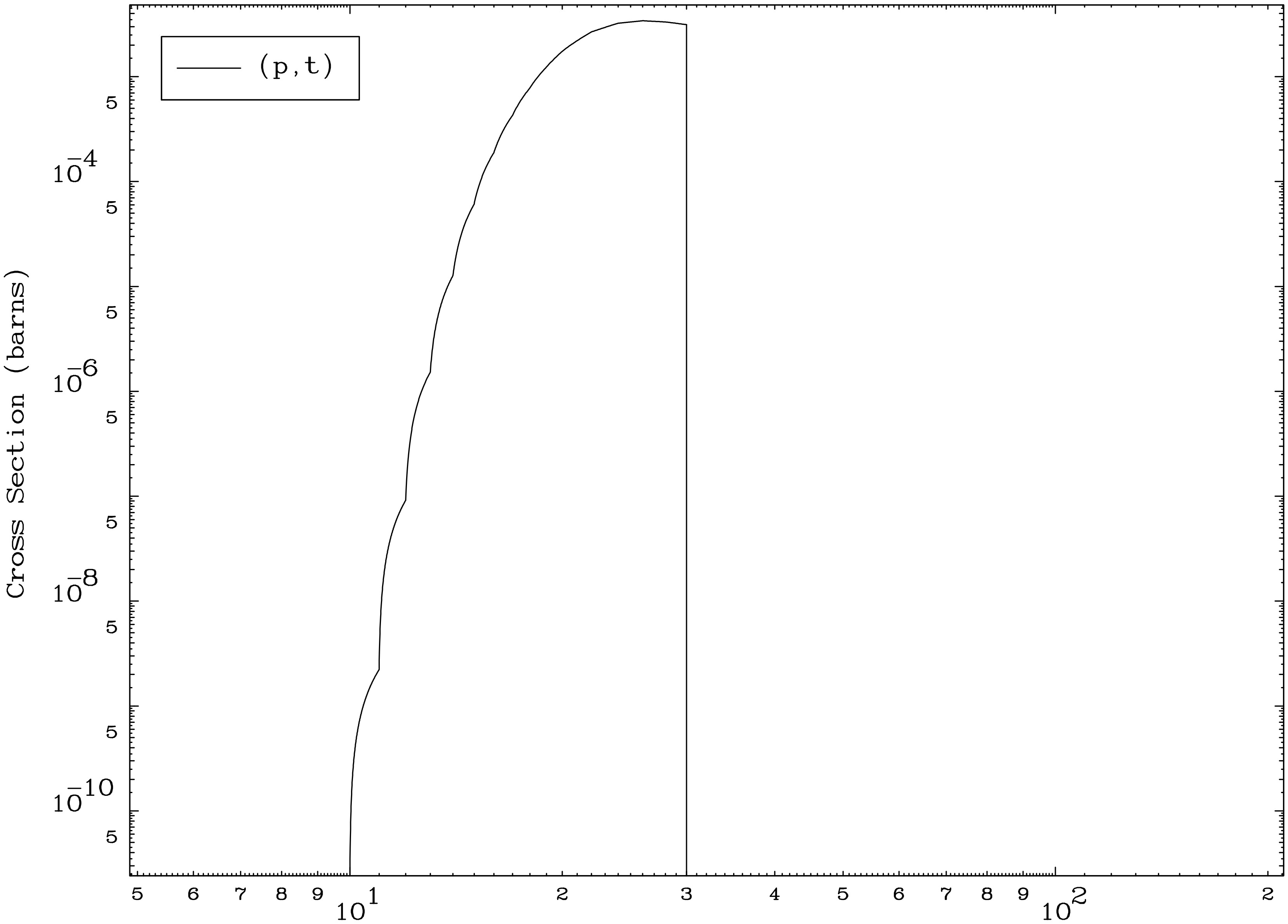

MAT 6246
Proton Charged Particle
0 Kelvin Cross Sections
62-Sm-151
(p,p)
(p,d)
(p,t)
(p,He-3)
(p,α)
(p,2α)
(p,2p)
(p,p) α
(p,p) d
(p,p) t
Cross Section (barns)
Incident Energy (MeV)
62-Sm-151

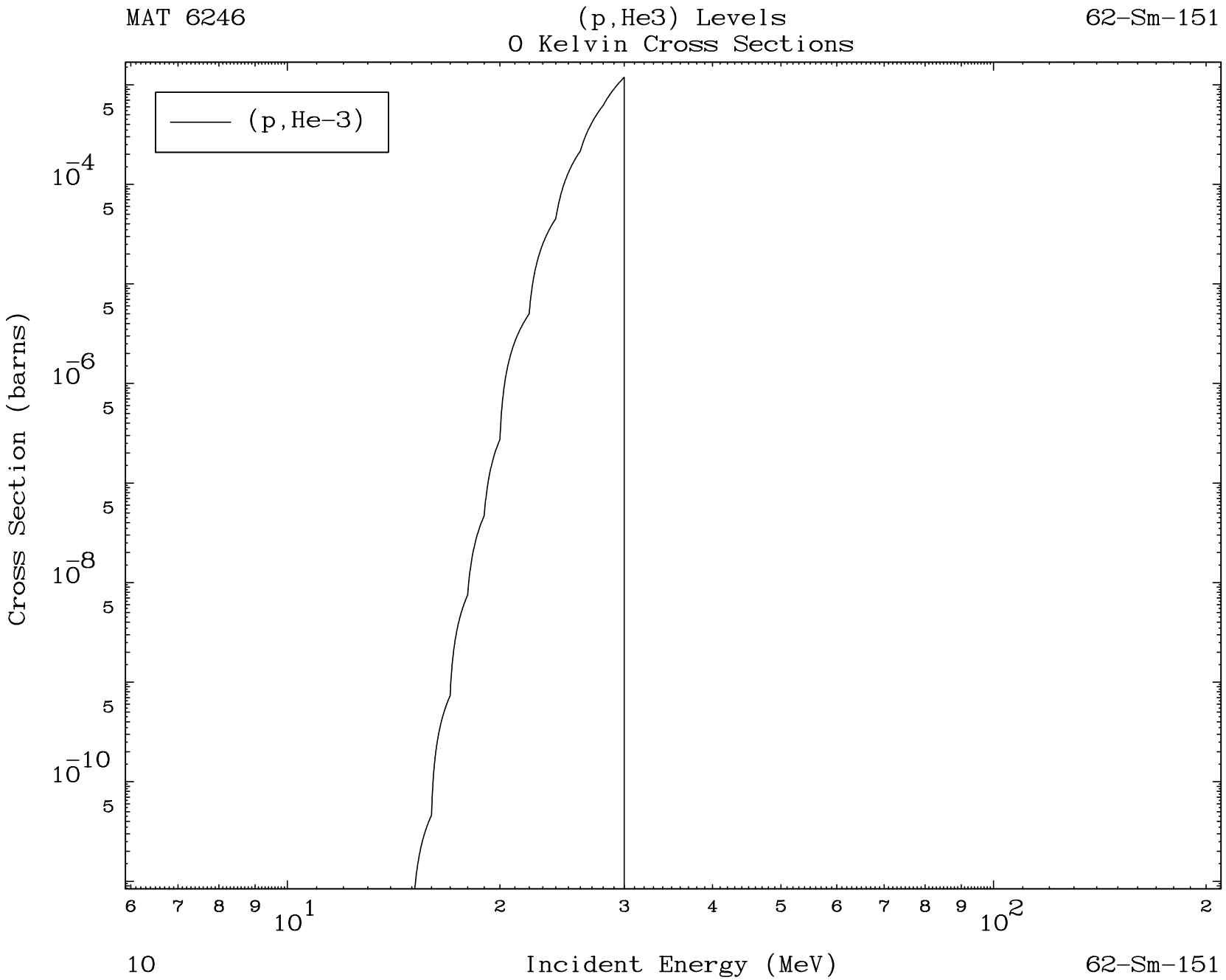

MAT 6246
(p,n') Level
62-Sm-151
0 Kelvin Cross Sections
Proton Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
6
62-Sm-151

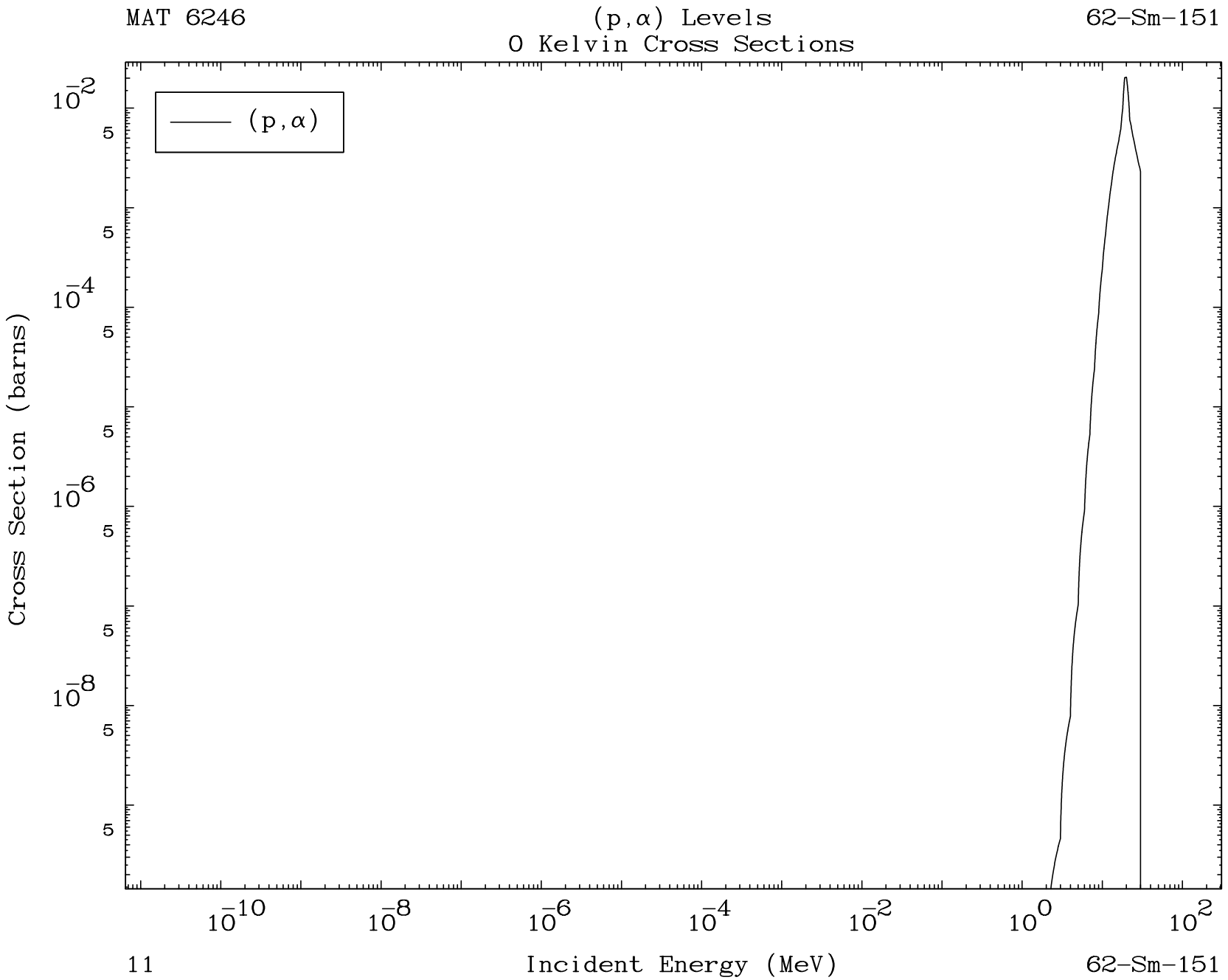

MAT 6246
(p,p) Levels
62-Sm-151
0 Kelvin Cross Sections
(p,p)
Cross Section (barns)
Incident Energy (MeV)
7
62-Sm-151

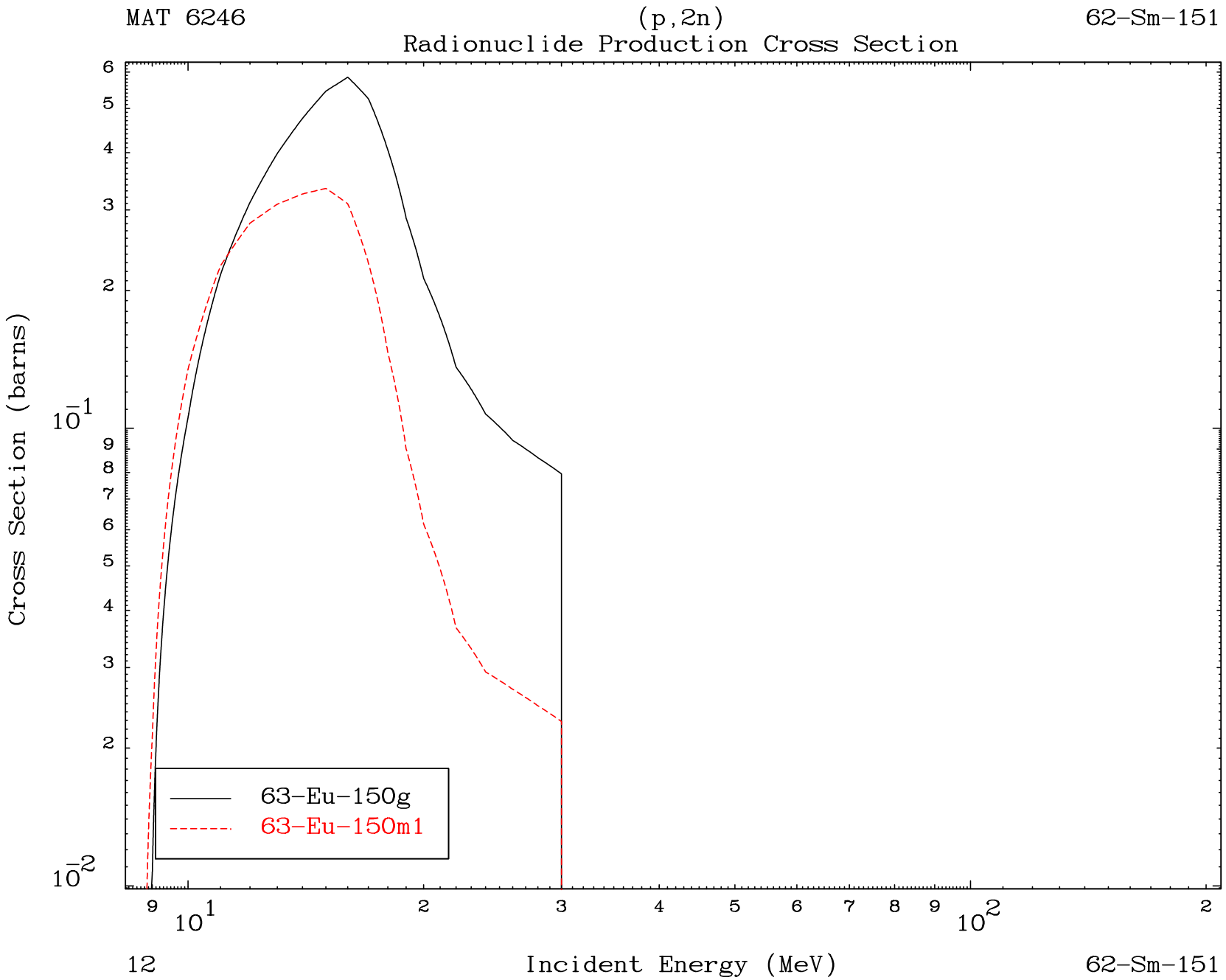

MAT 6246
(p,d) Levels
62-Sm-151
0 Kelvin Cross Sections
(p,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
10^1
10^2
8
62-Sm-151

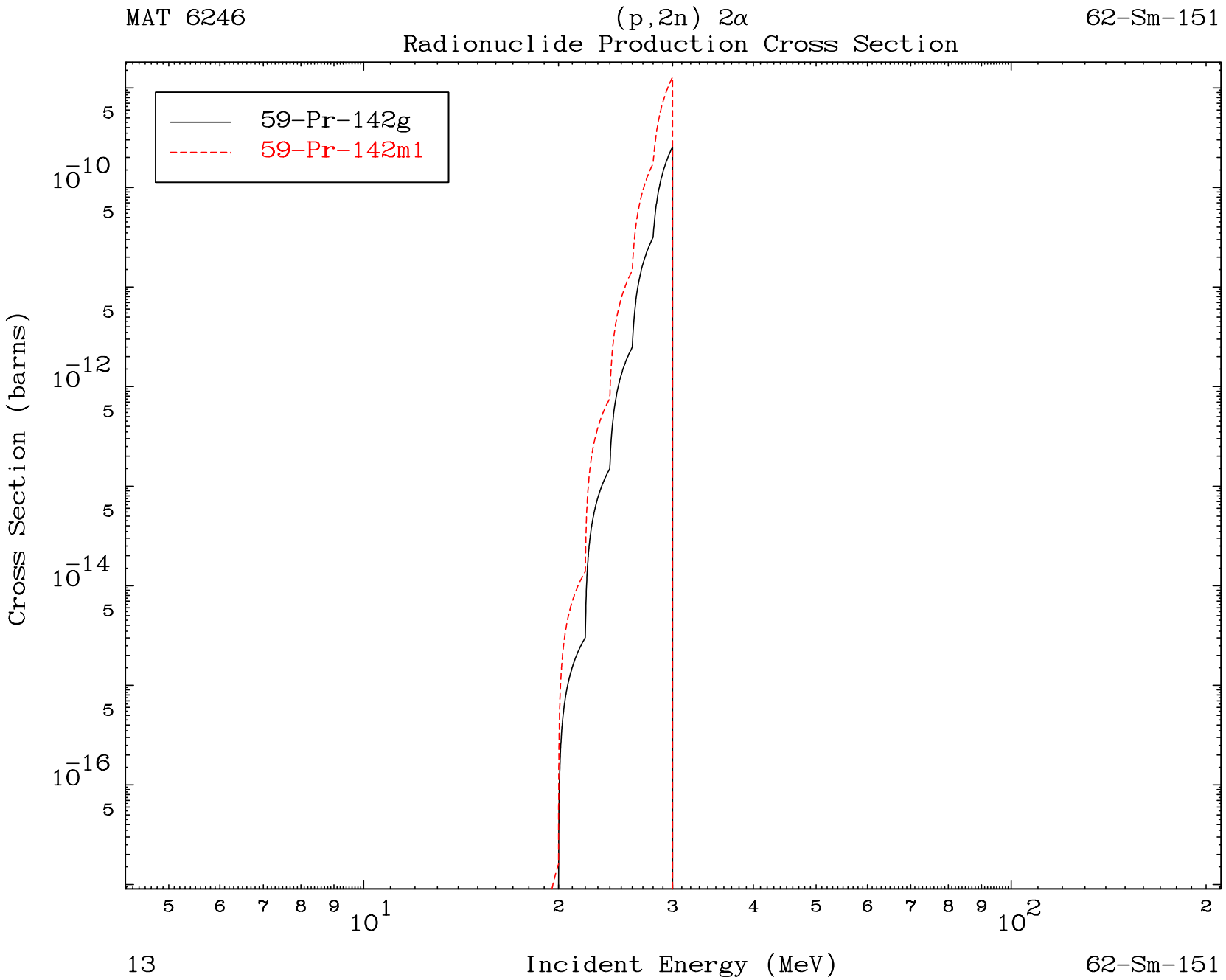
(p,t) Levels
0 Kelvin Cross Sections

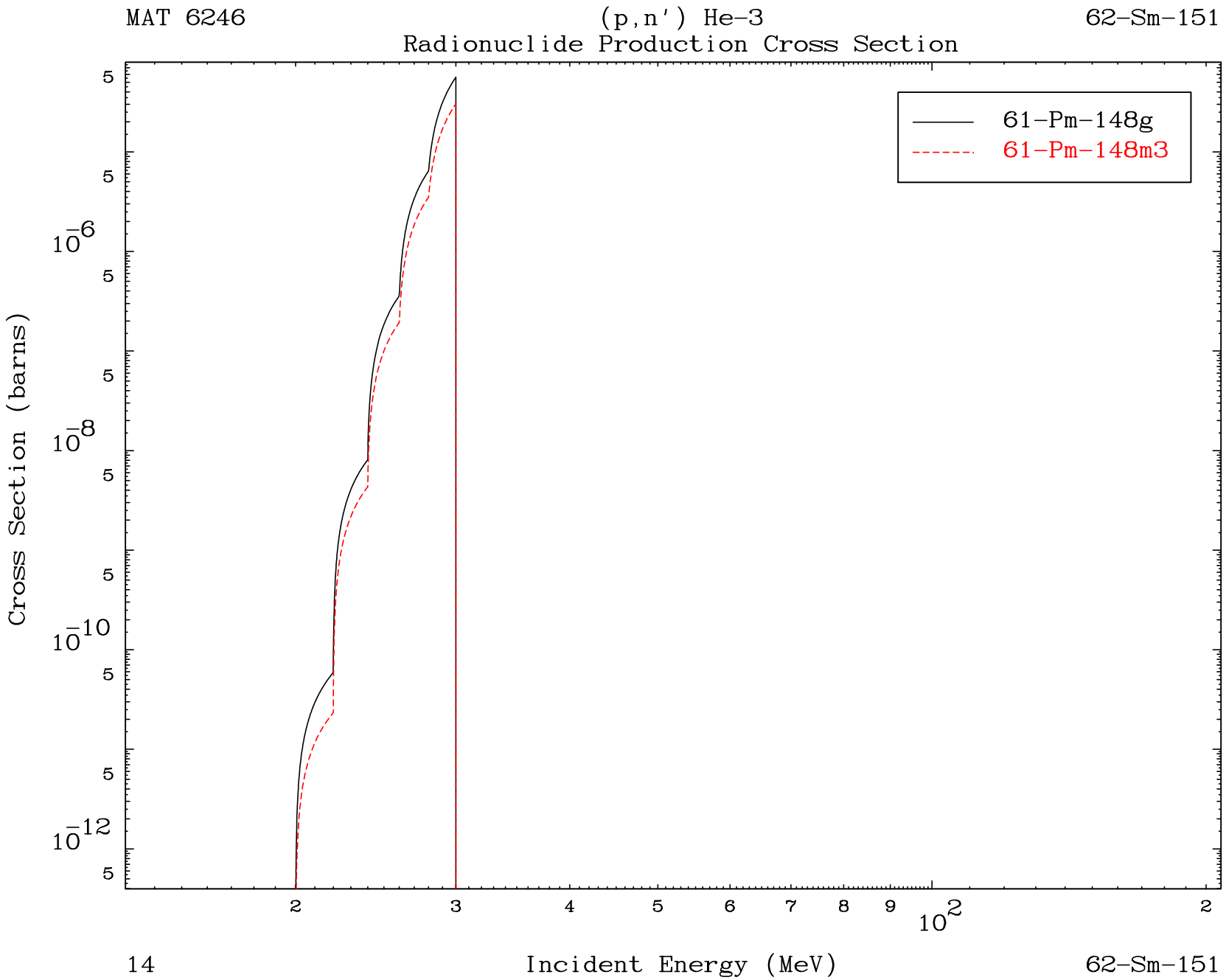


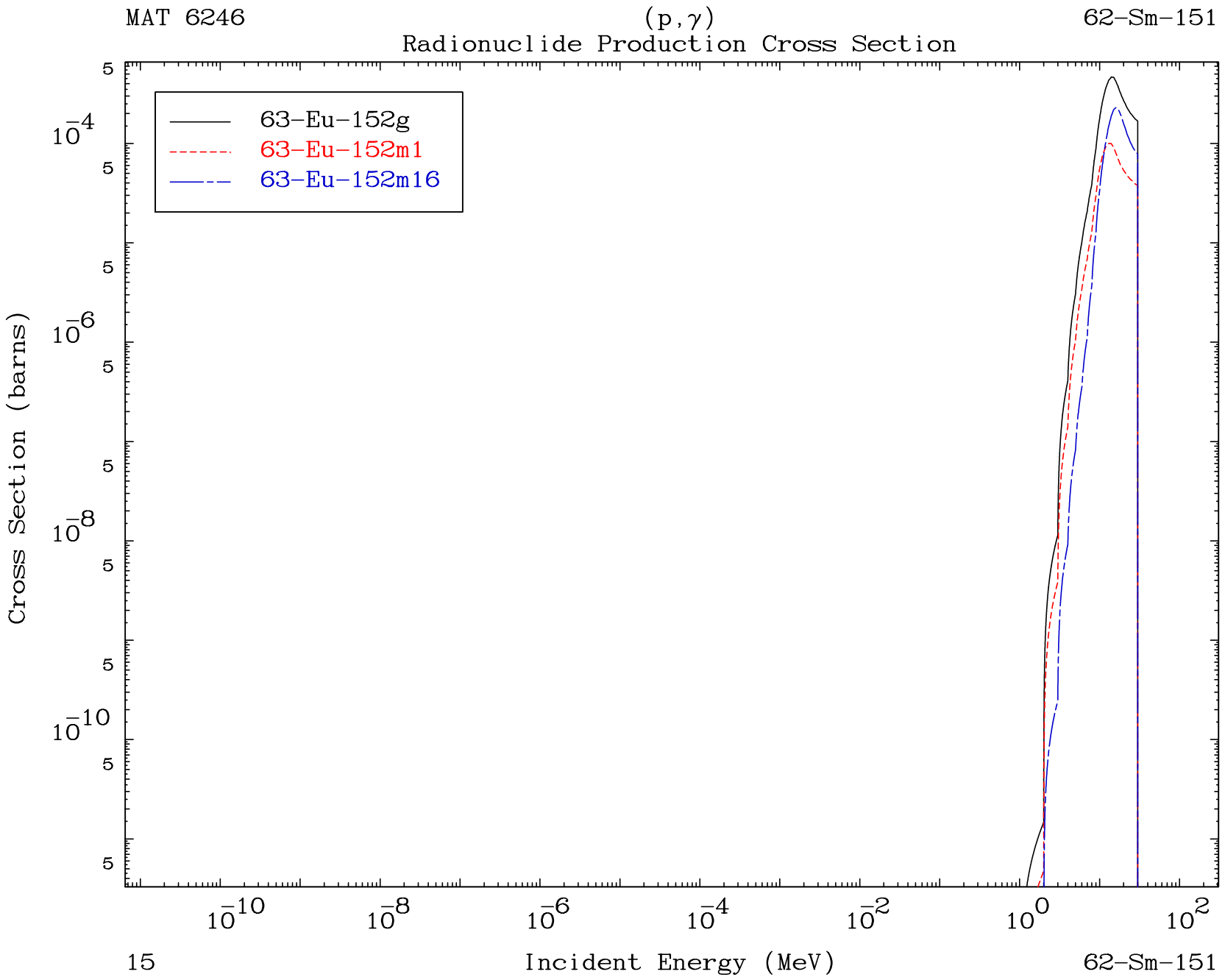

MAT 6246
(p,He3) Levels
62-Sm-151
0 Kelvin Cross Sections
(p,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10
62-Sm-151

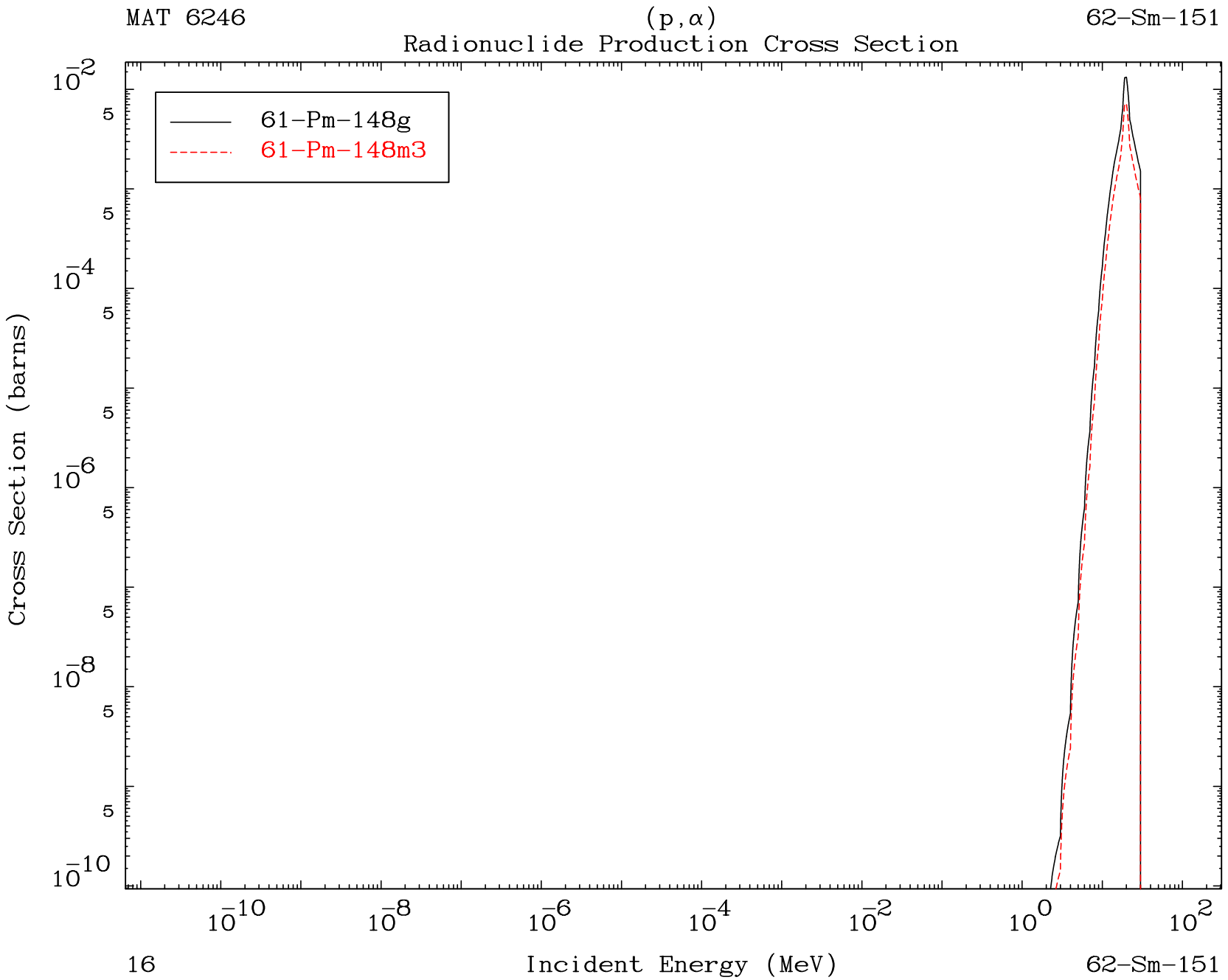

MAT 6246
(p,α) Levels
62-Sm-151
0 Kelvin Cross Sections
(p,α)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
10-10
10-8
10-6
10-4
10-2
100
102
11
Incident Energy (MeV)
62-Sm-151

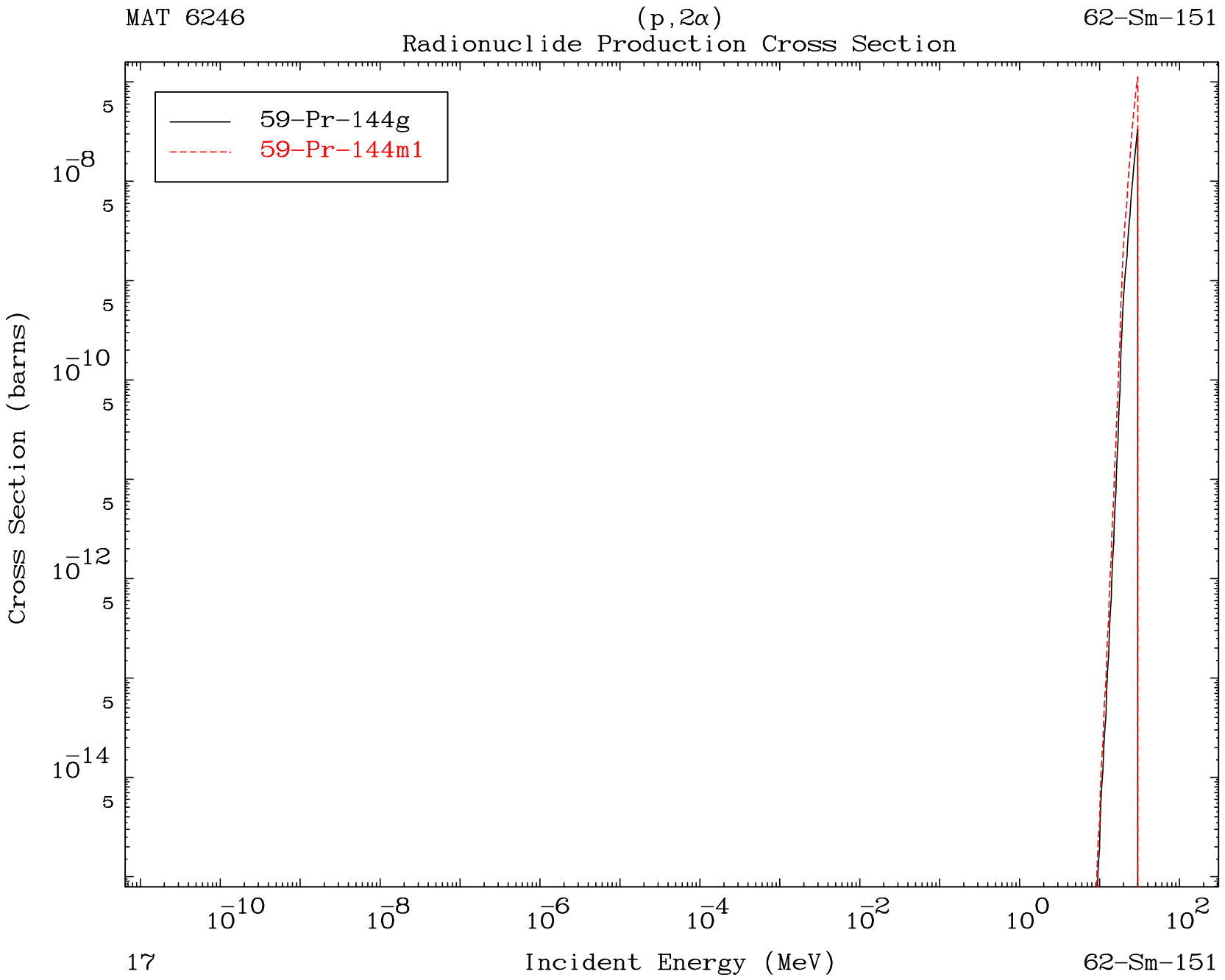

MAT 6246
(p,2n)
62-Sm-151
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
63-Eu-150g
63-Eu-150m1
12
62-Sm-151

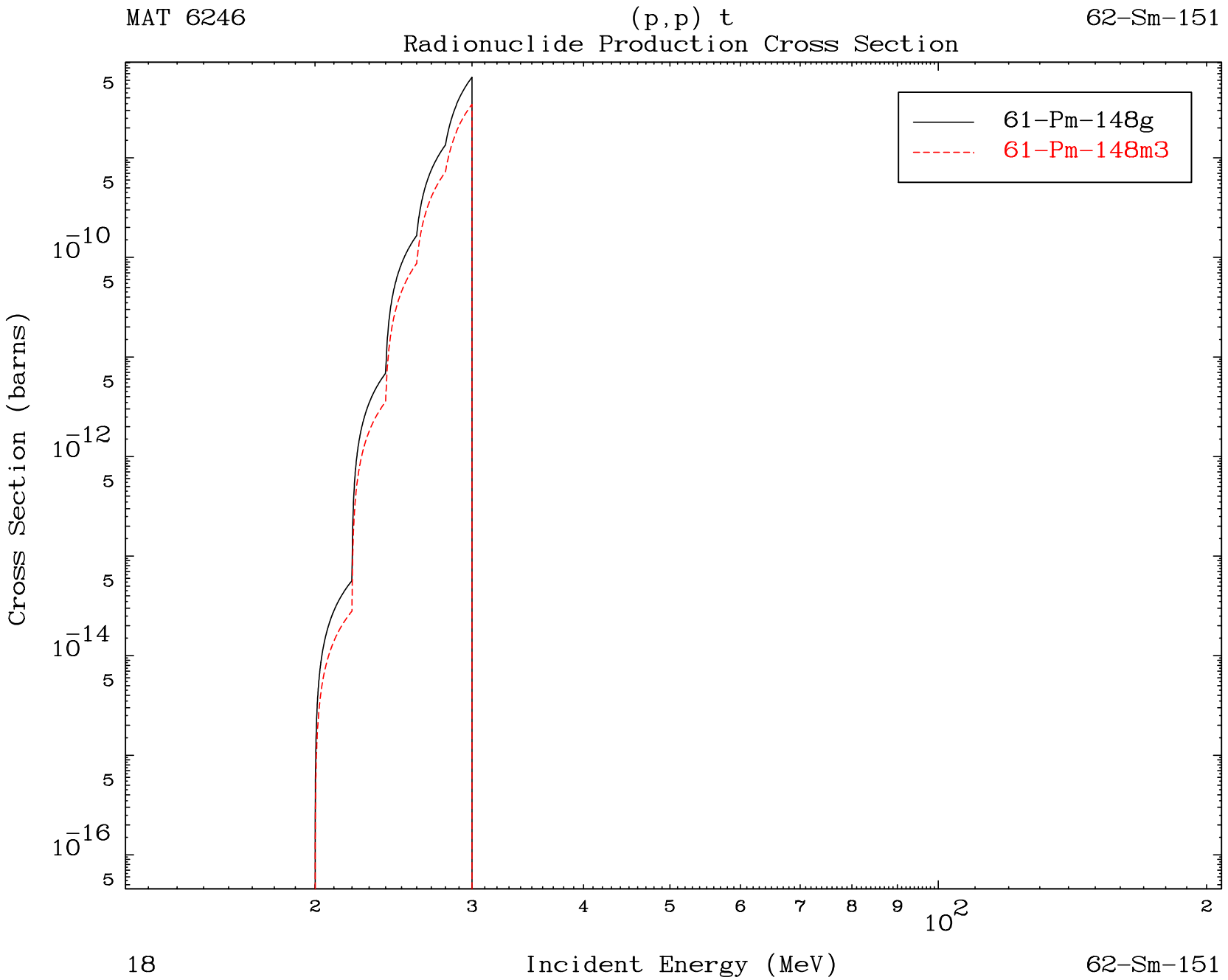

MAT 6246
(p,2n) 2α
62-Sm-151
Radionuclide Production Cross Section
59-Pr-142g
59-Pr-142m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
10^1
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
62-Sm-151


MAT 6246
(p,n') He-3
62-Sm-151
Radionuclide Production Cross Section
61-Pm-148g
61-Pm-148m3
Cross Section (barns)
Incident Energy (MeV)
14
62-Sm-151


MAT 6246
(p,γ)
62-Sm-151
Radionuclide Production Cross Section
63-Eu-152g
63-Eu-152m1
63-Eu-152m16
Cross Section (barns)
Incident Energy (MeV)
62-Sm-151
15


MAT 6246
(p,α)
62-Sm-151
Radionuclide Production Cross Section
61-Pm-148g
61-Pm-148m3
Cross Section (barns)
Incident Energy (MeV)
16
62-Sm-151


MAT 6246
(p,2α)
62-Sm-151
Radionuclide Production Cross Section
59-Pr-144g
59-Pr-144m1
Cross Section (barns)
Incident Energy (MeV)
17
62-Sm-151


MAT 6246
(p,p) t
62-Sm-151
Radionuclide Production Cross Section
61-Pm-148g
61-Pm-148m3
Cross Section (barns)
Incident Energy (MeV)
18
62-Sm-151