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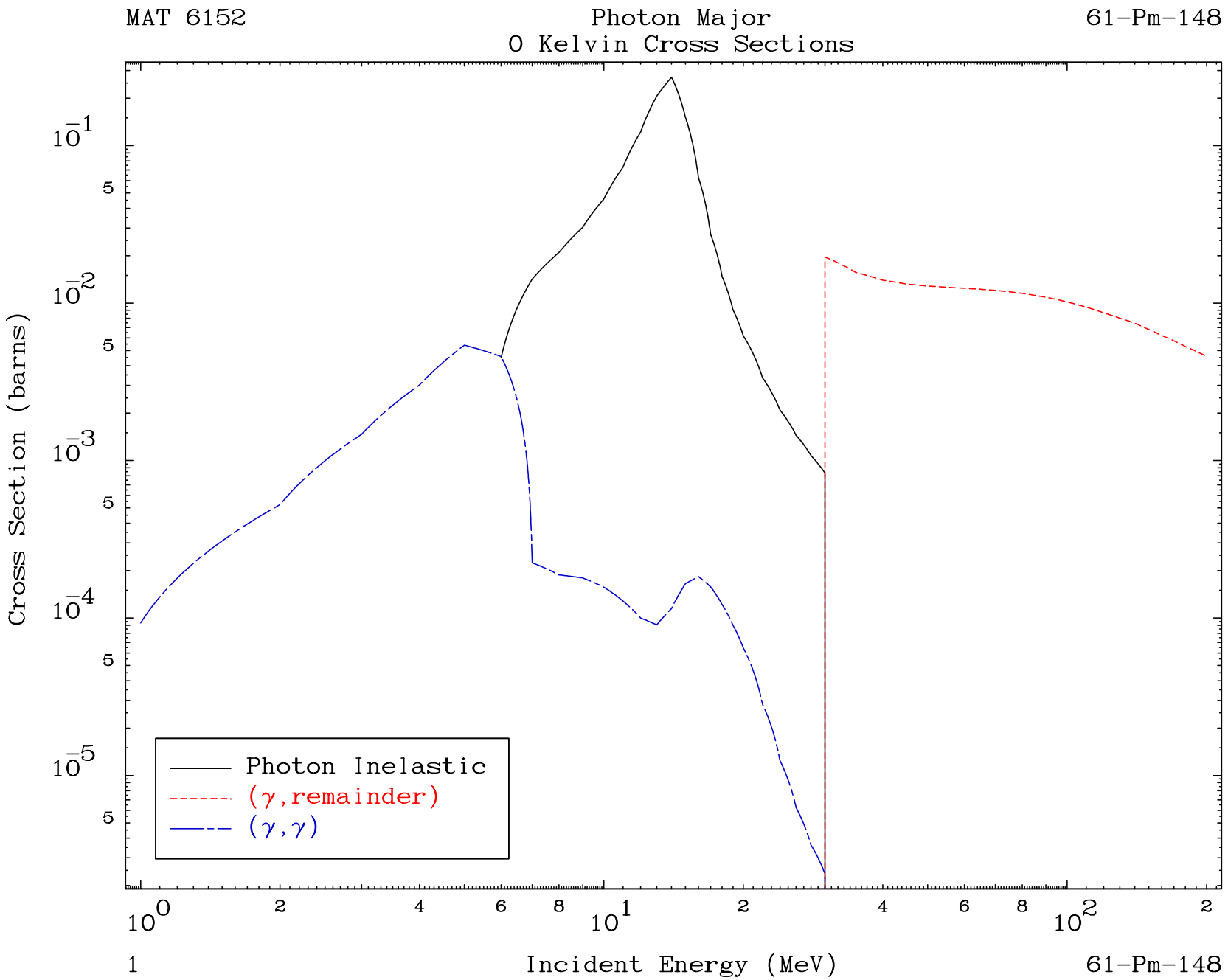
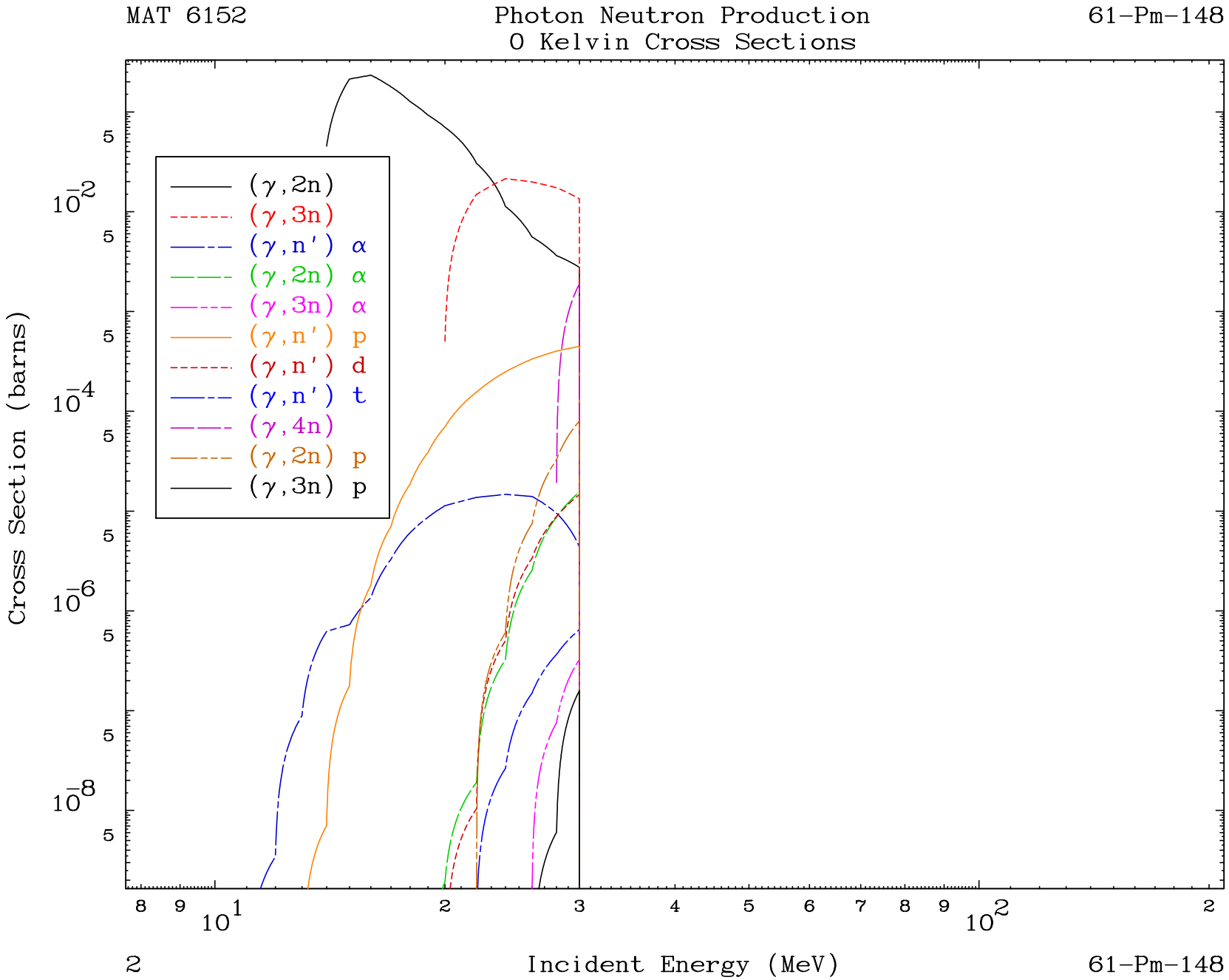
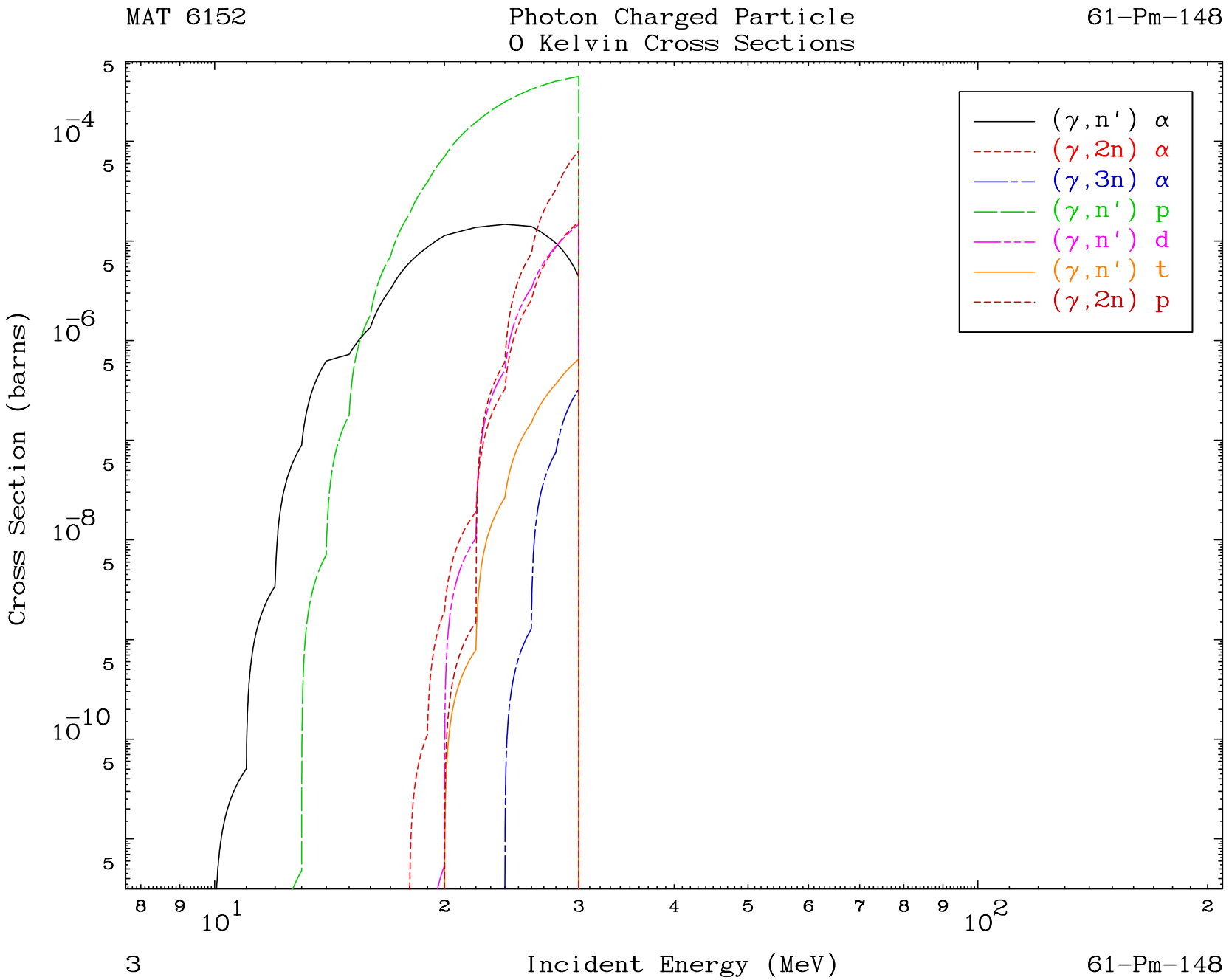
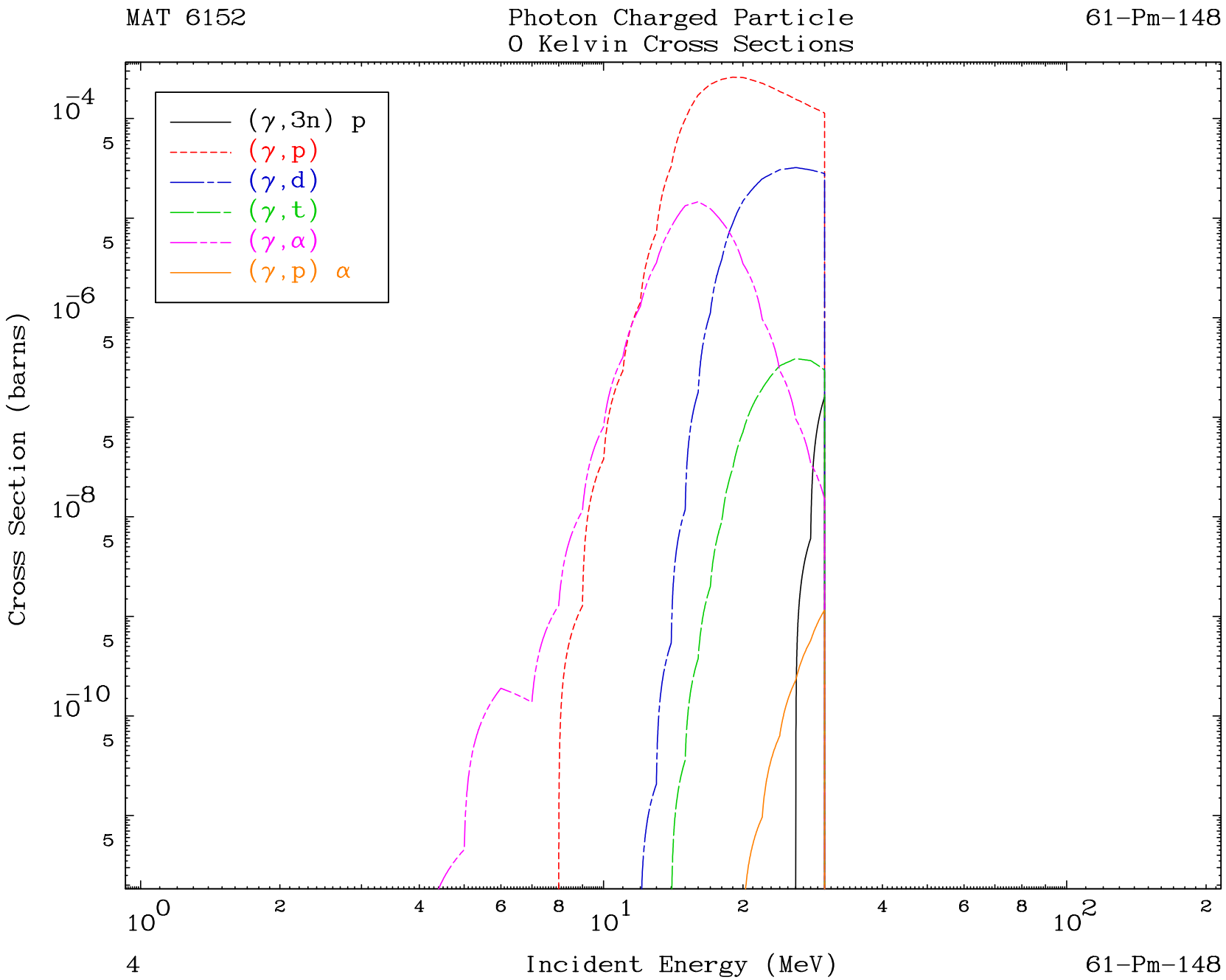
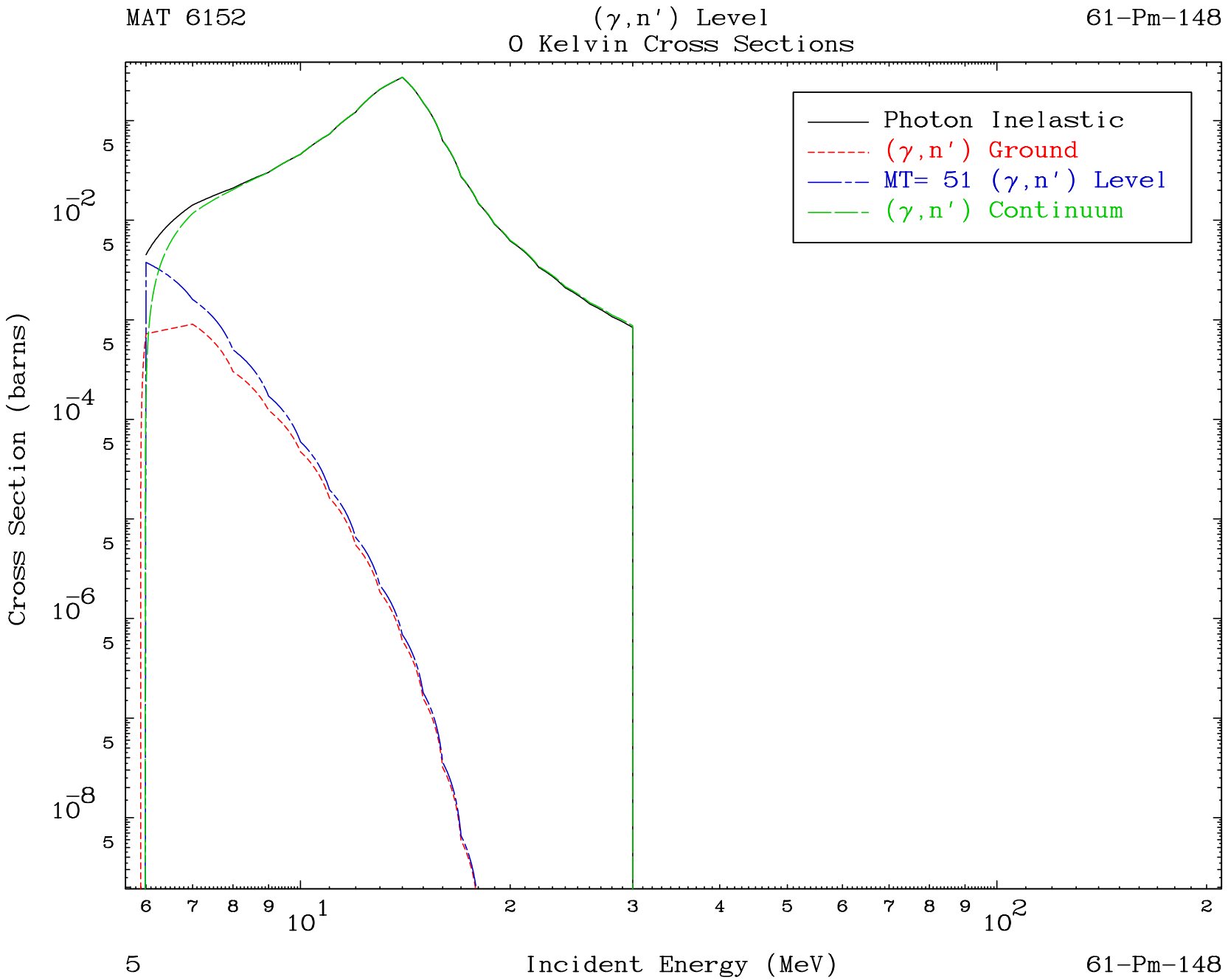
Press Mouse Button to Start

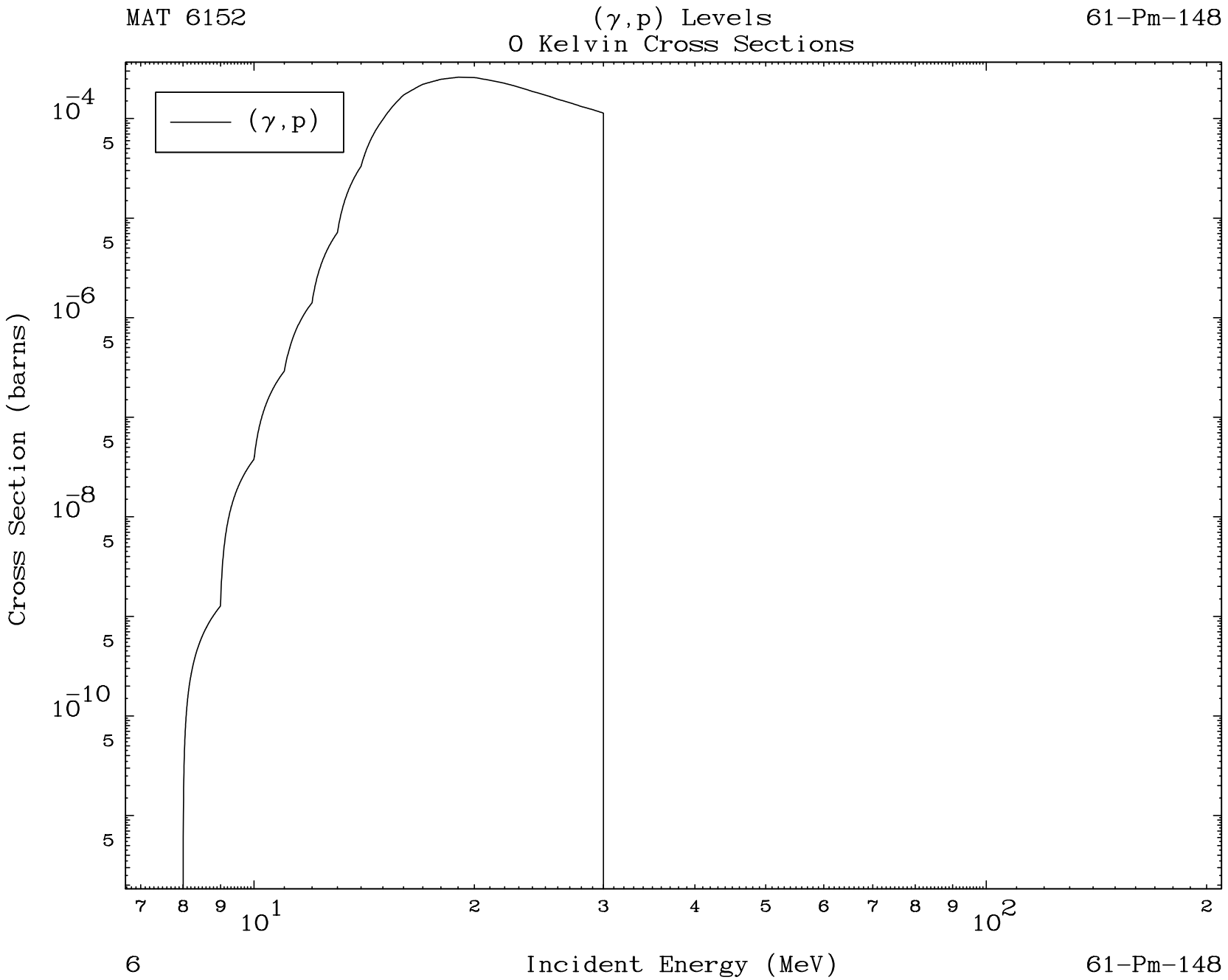

MAT 6152
Photon Major
61-Pm-148
0 Kelvin Cross Sections
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
5
Photon Inelastic
(γ,remainder)
(γ,γ)
100
2
4
6
8
101
102
1
Incident Energy (MeV)
61-Pm-148

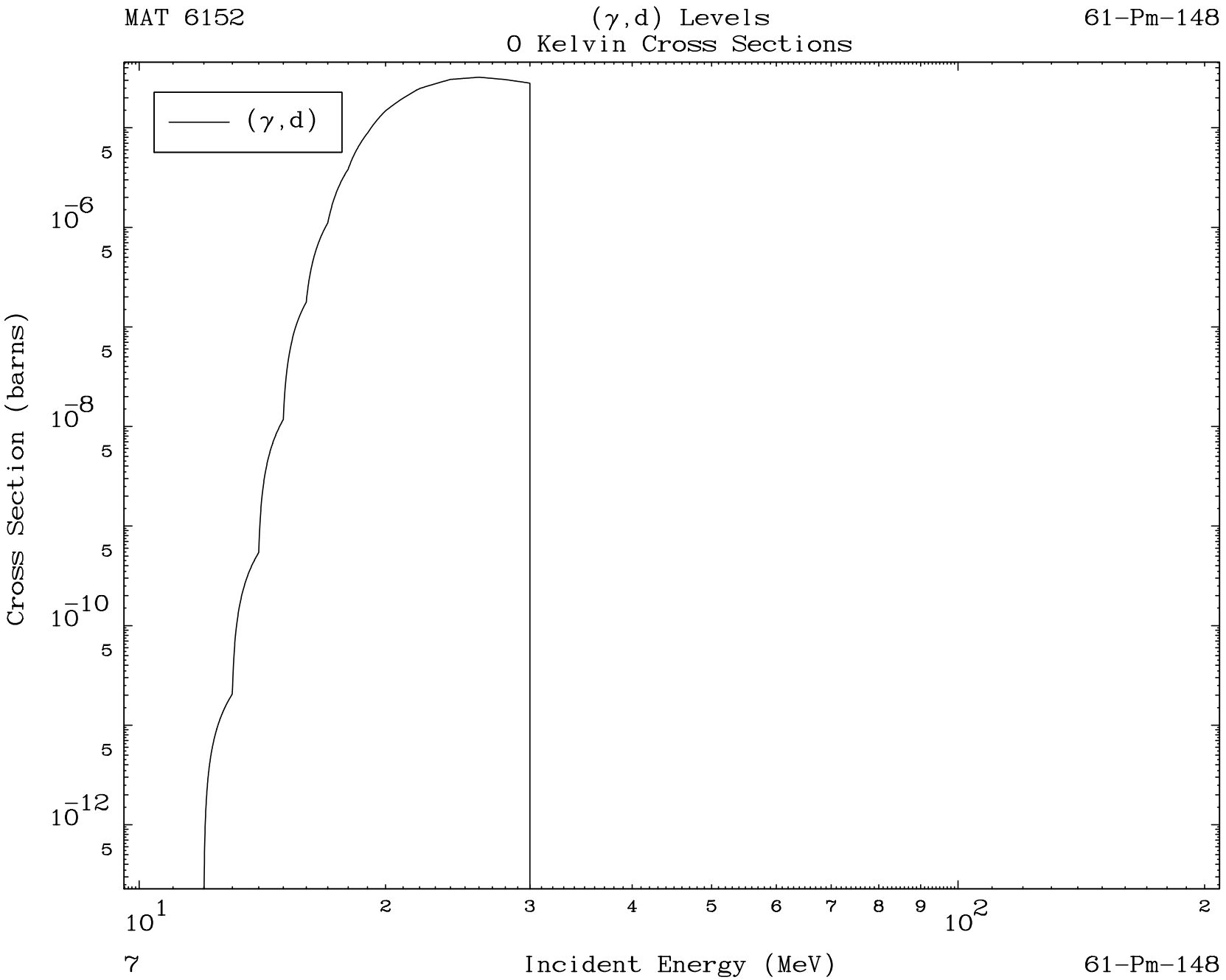

MAT 6152
Photon Neutron Production
0 Kelvin Cross Sections
61-Pm-148
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,3n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,4n)
(γ,2n) p
(γ,3n) p
Cross Section (barns)
Incident Energy (MeV)
61-Pm-148

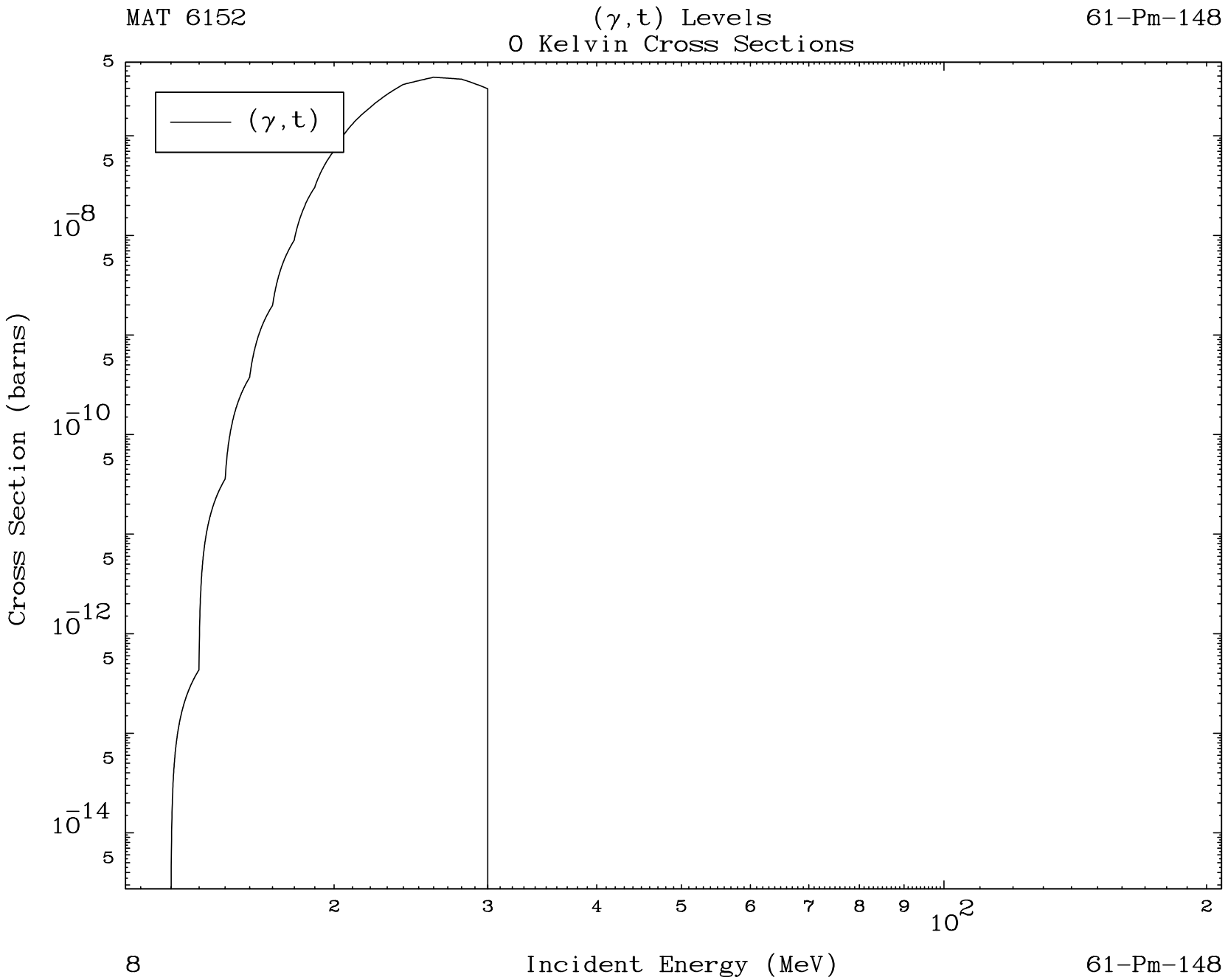

MAT 6152
Photon Charged Particle
0 Kelvin Cross Sections
61-Pm-148
Cross Section (barns)
Incident Energy (MeV)
(γ,n') α
(γ,2n) α
(γ,3n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
3
61-Pm-148

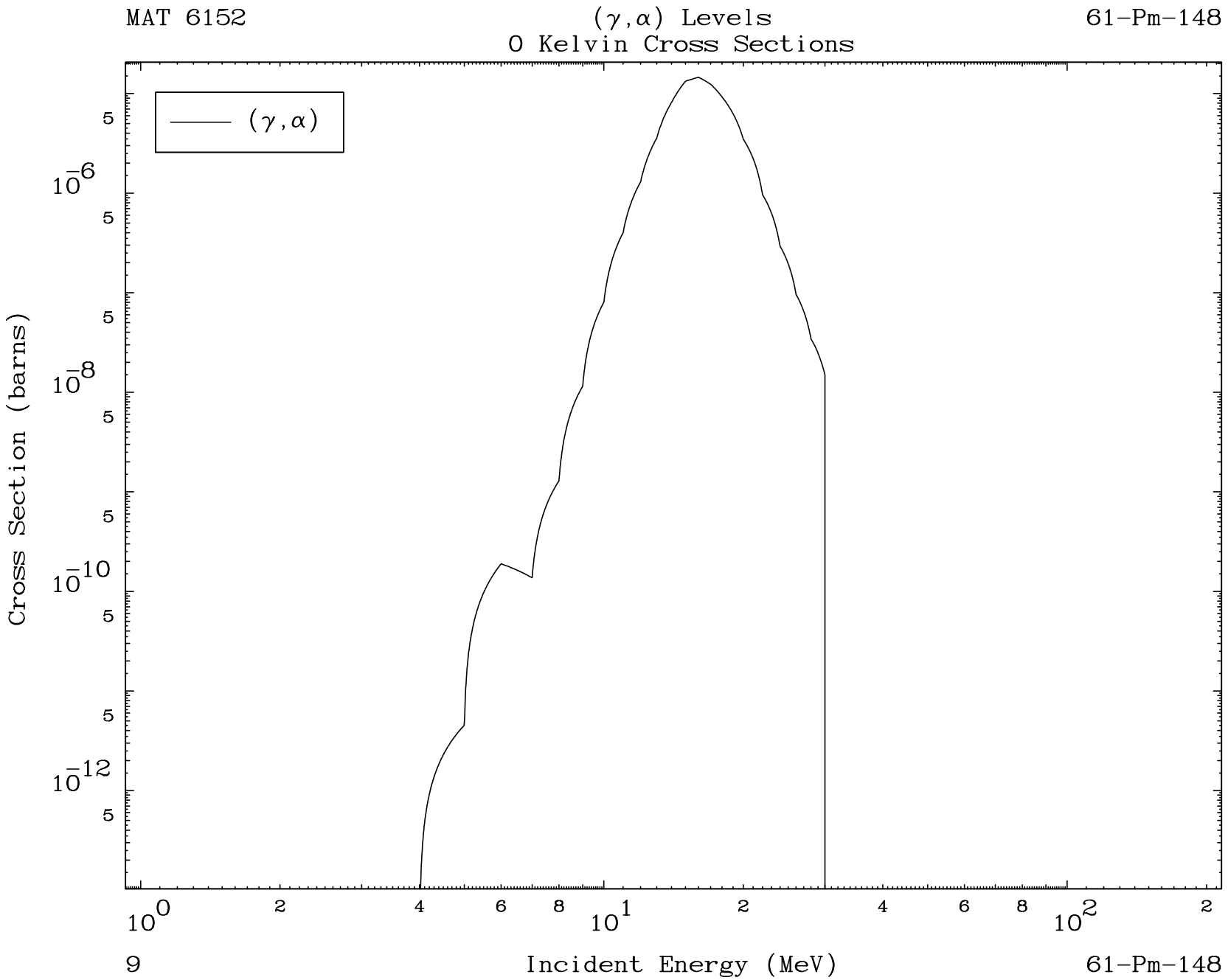

MAT 6152
Photon Charged Particle
0 Kelvin Cross Sections
61-Pm-148
(γ,3n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)
(γ,p) α
Cross Section (barns)
Incident Energy (MeV)
61-Pm-148
4

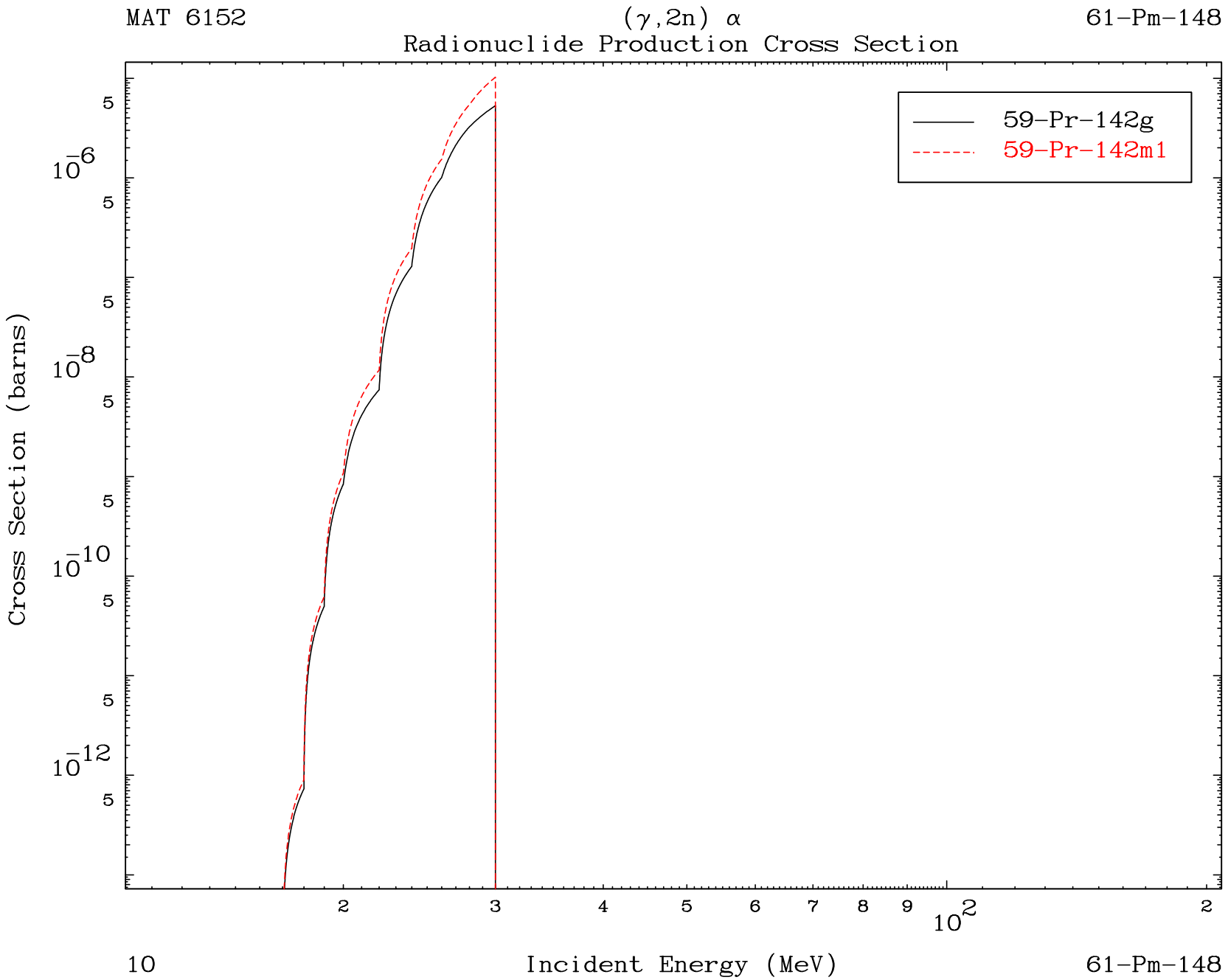

MAT 6152
(γ,n') Level
61-Pm-148
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
61-Pm-148

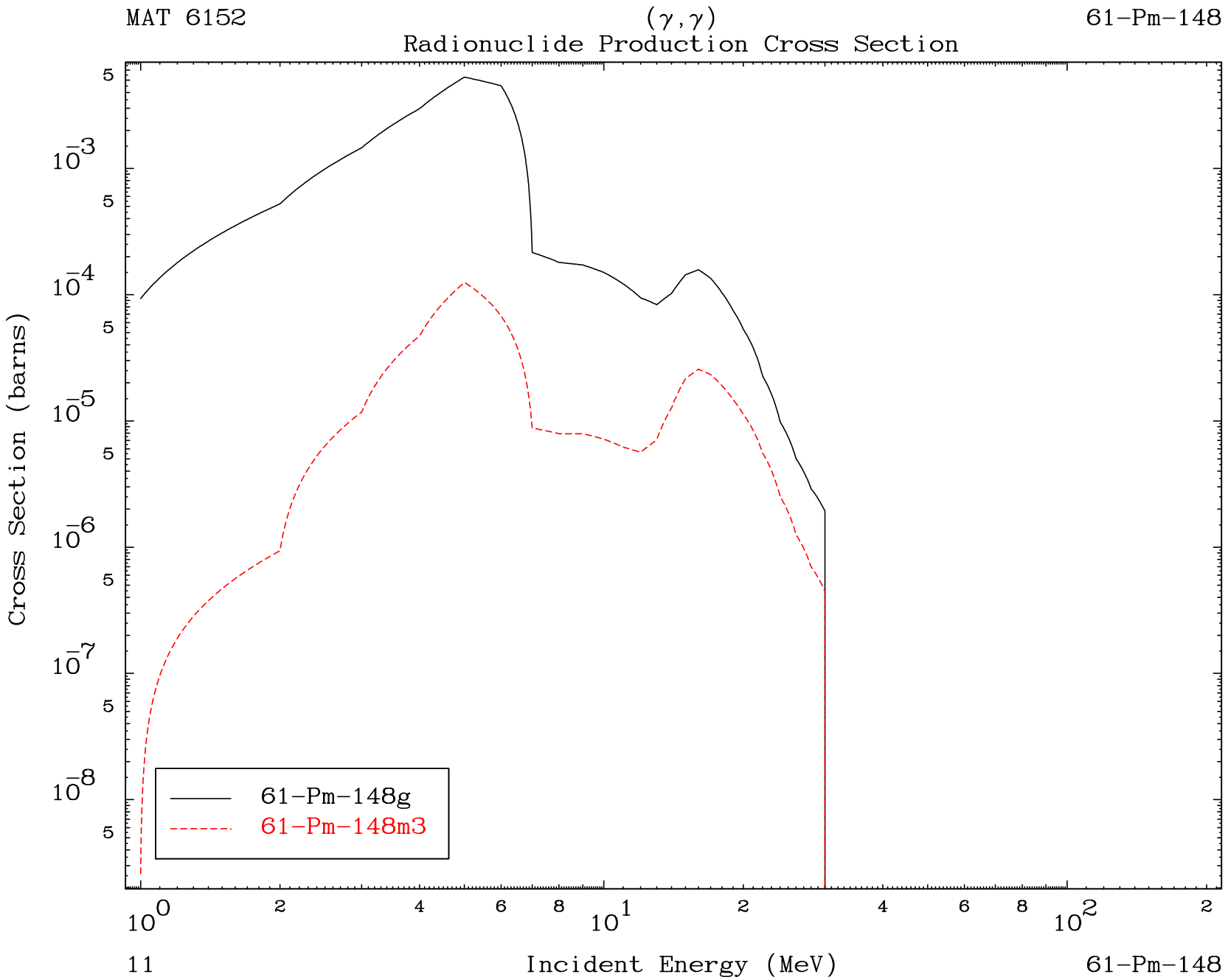

MAT 6152
(γ,p) Levels
61-Pm-148
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
61-Pm-148

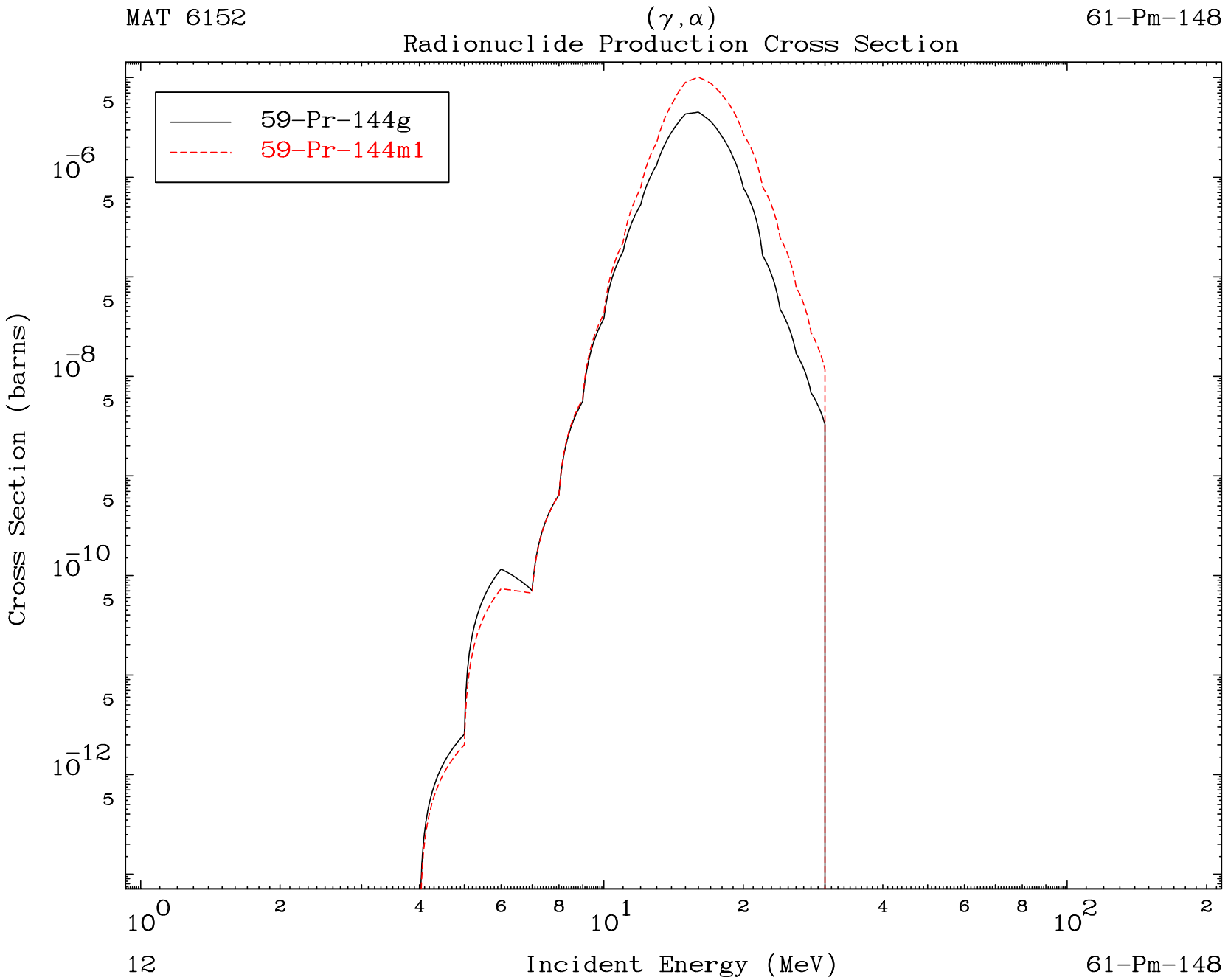

MAT 6152
(γ,d) Levels
61-Pm-148
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
7
61-Pm-148


MAT 6152
(γ,t) Levels
61-Pm-148
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
8
Incident Energy (MeV)
61-Pm-148


MAT 6152
(γ,α) Levels
61-Pm-148
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
100
2
4
6
8
101
102
Incident Energy (MeV)
9
61-Pm-148


MAT 6152
(γ,2n) α
61-Pm-148
Radionuclide Production Cross Section
59-Pr-142g
59-Pr-142m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
61-Pm-148


MAT 6152
(γ,γ)
61-Pm-148
Radionuclide Production Cross Section
Cross Section (barns)
10-3
10-4
10-5
10-6
10-7
10-8
100
101
102
Incident Energy (MeV)
61-Pm-148g
61-Pm-148m3
11
61-Pm-148


MAT 6152
(γ,α)
61-Pm-148
Radionuclide Production Cross Section
59-Pr-144g
59-Pr-144m1
Cross Section (barns)
Incident Energy (MeV)
12
61-Pm-148