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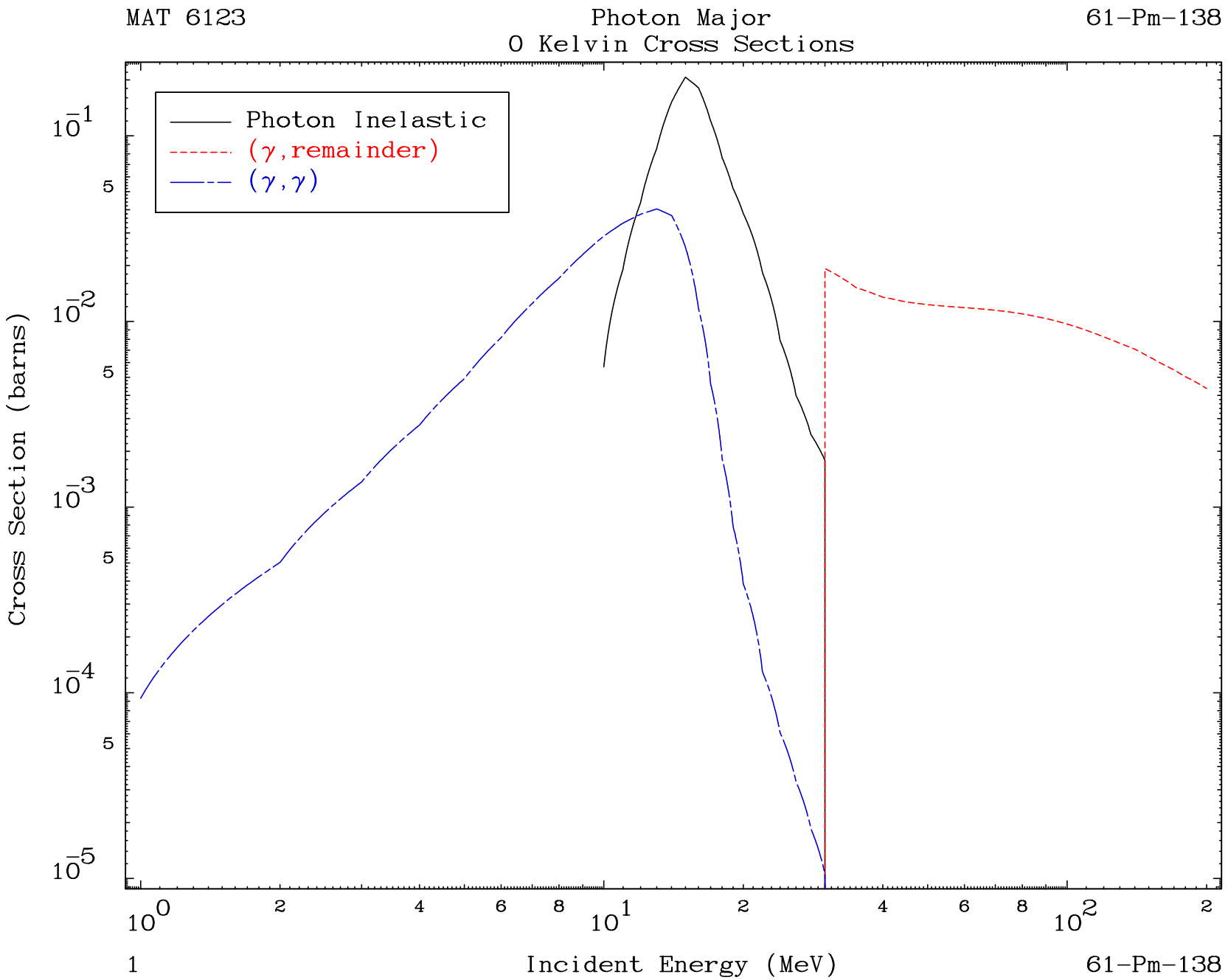
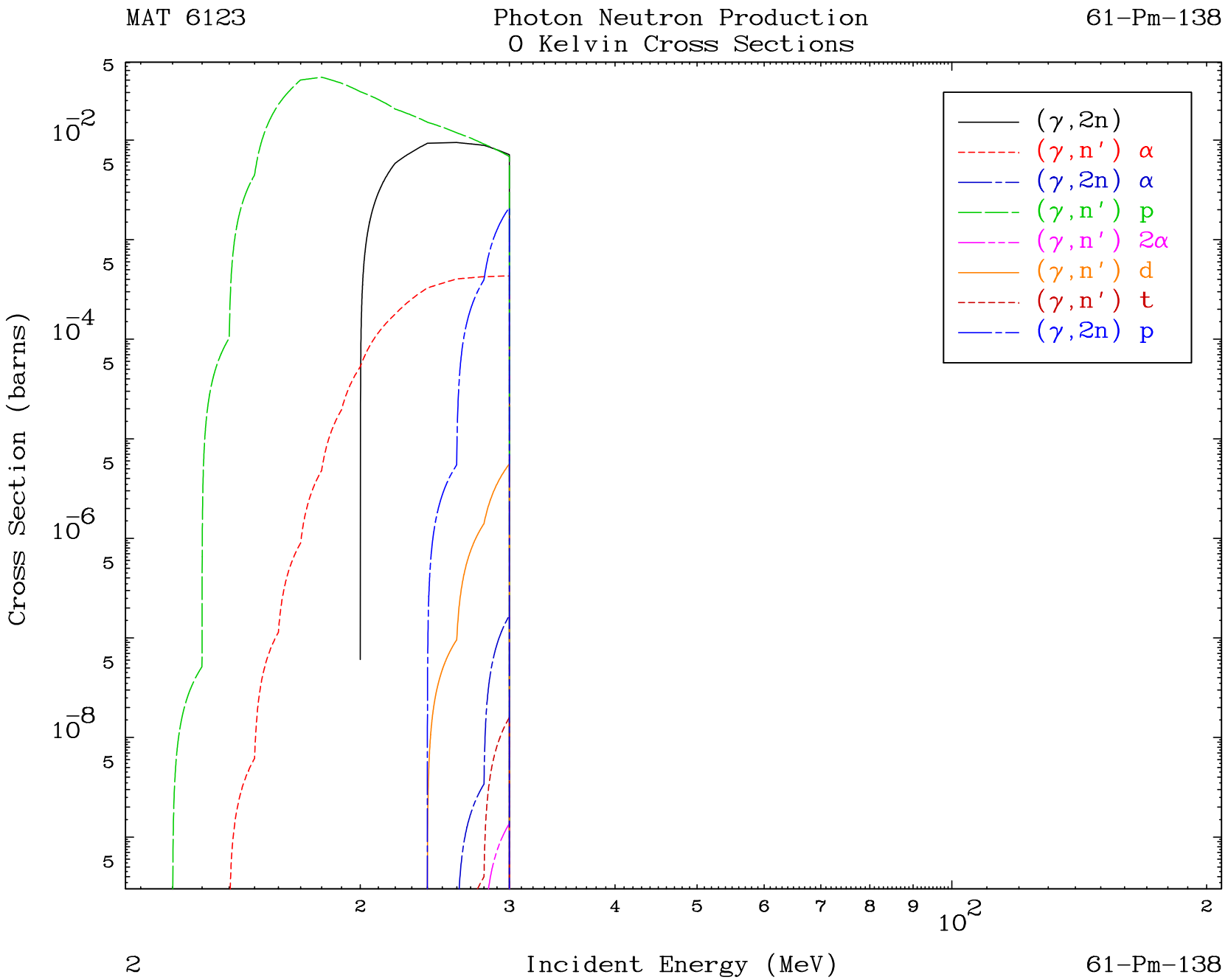
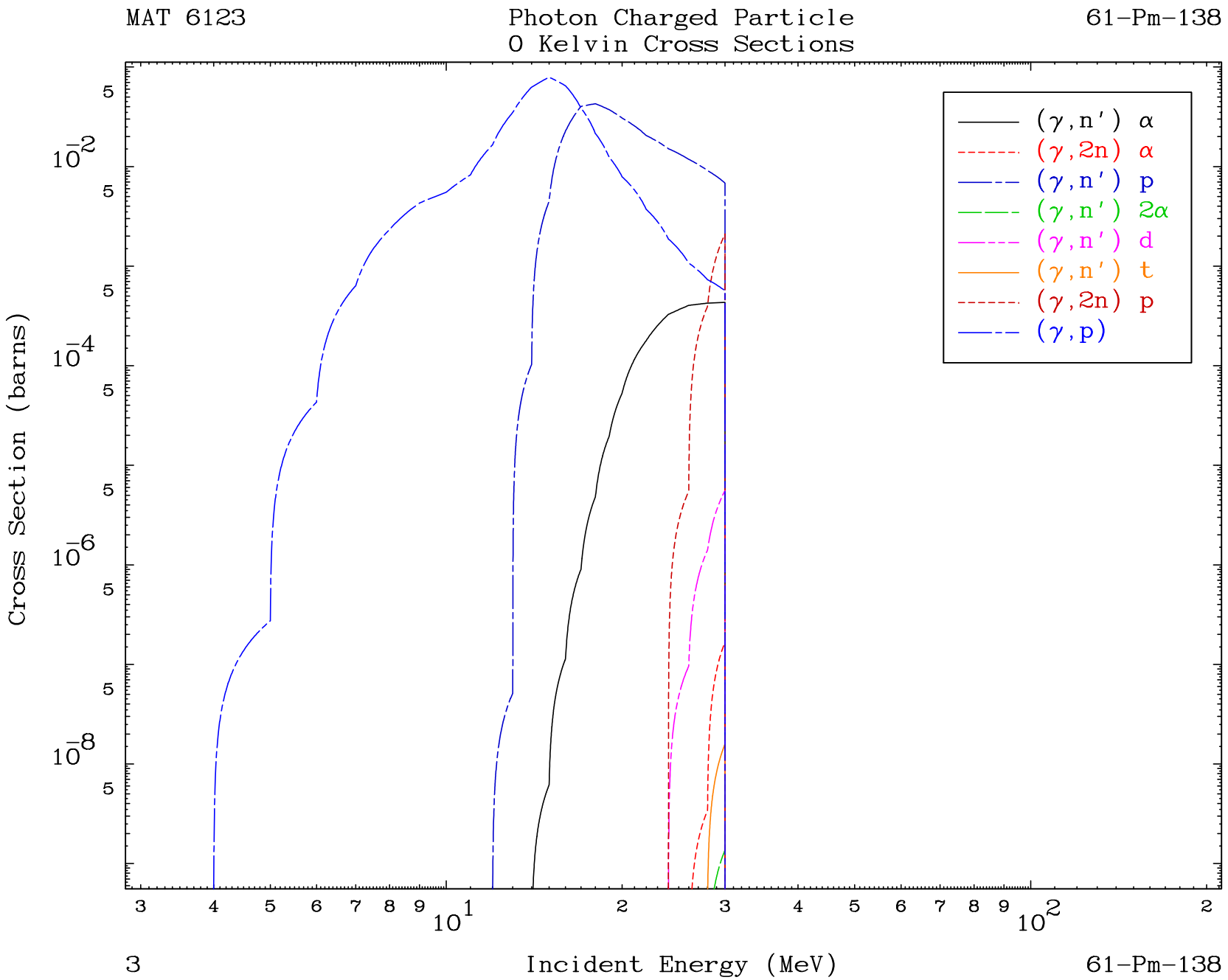
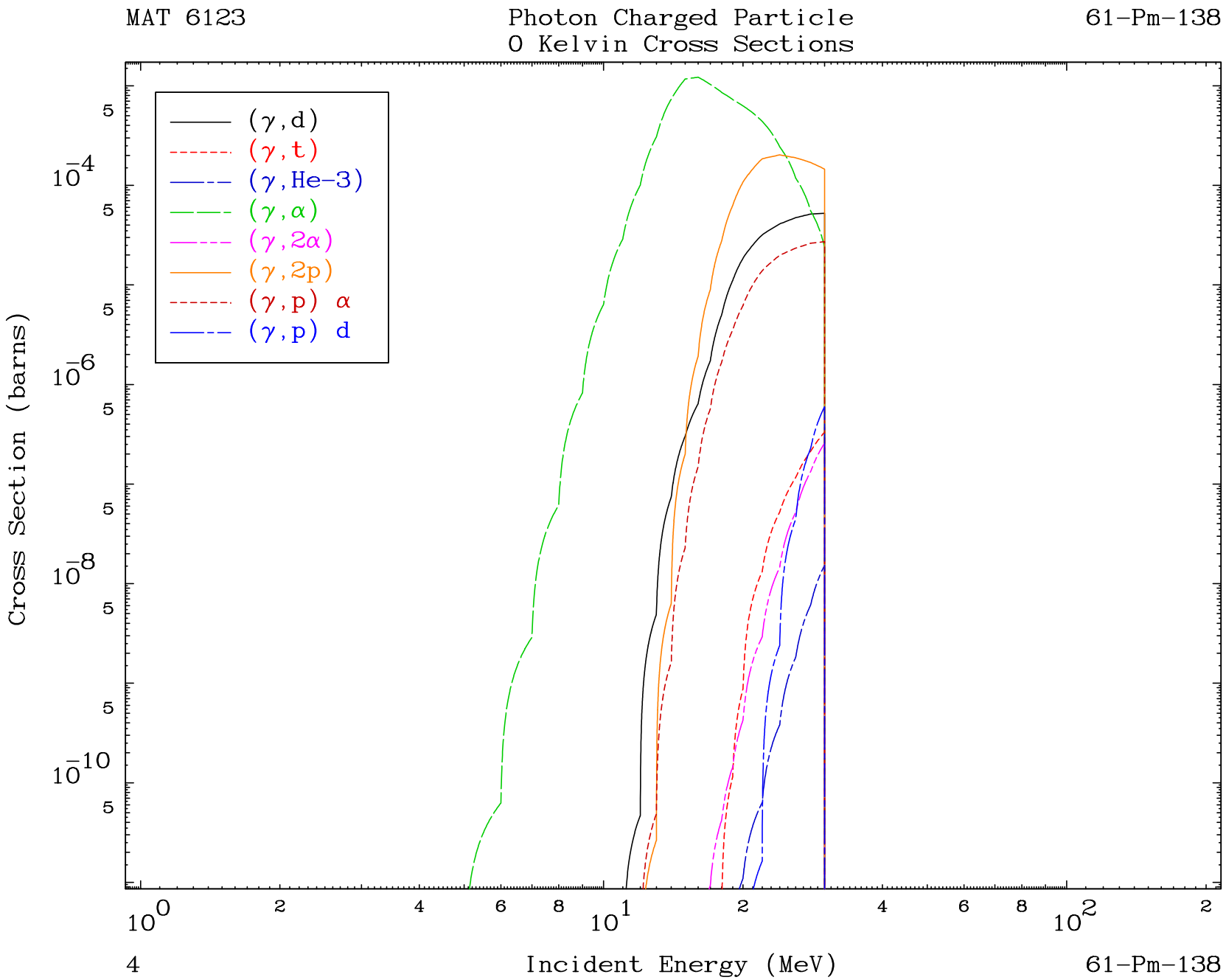
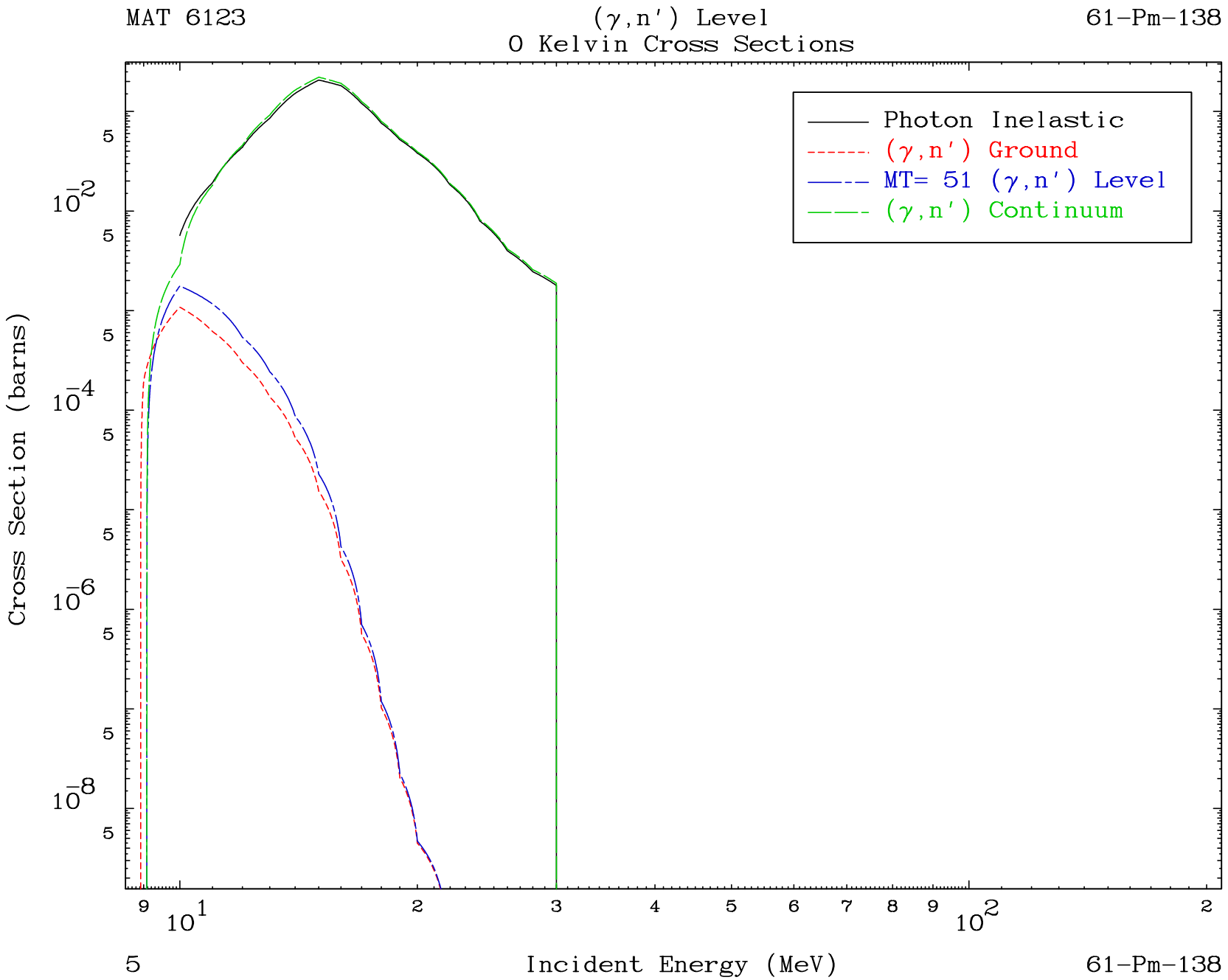
Press Mouse Button to Start

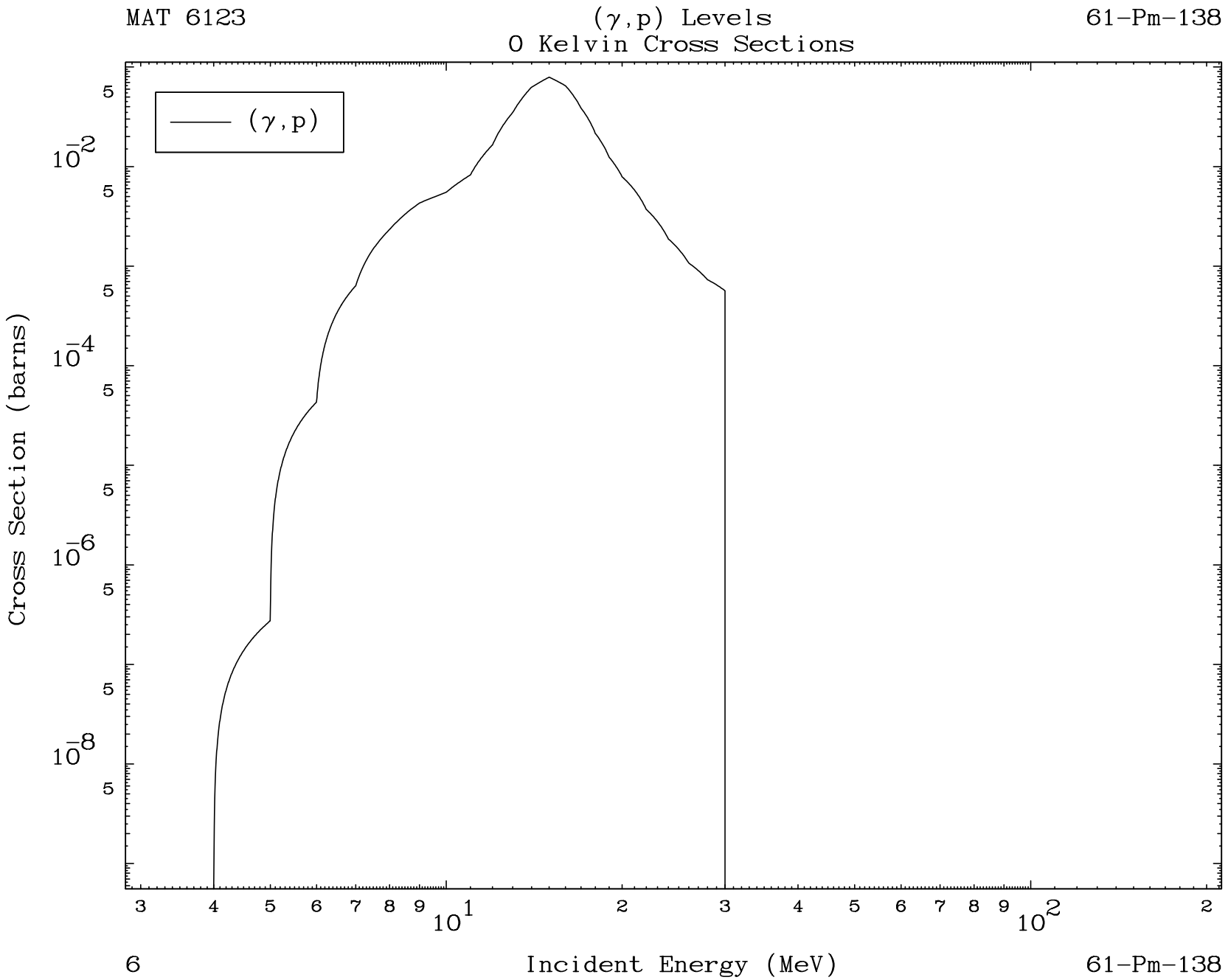

MAT 6123
Photon Major
61-Pm-138
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
10^-1
5
10^-2
5
10^-3
5
10^-4
5
10^-5
10^0
2
4
6
8
10^1
2
4
6
8
10^2
2
1
Incident Energy (MeV)
61-Pm-138

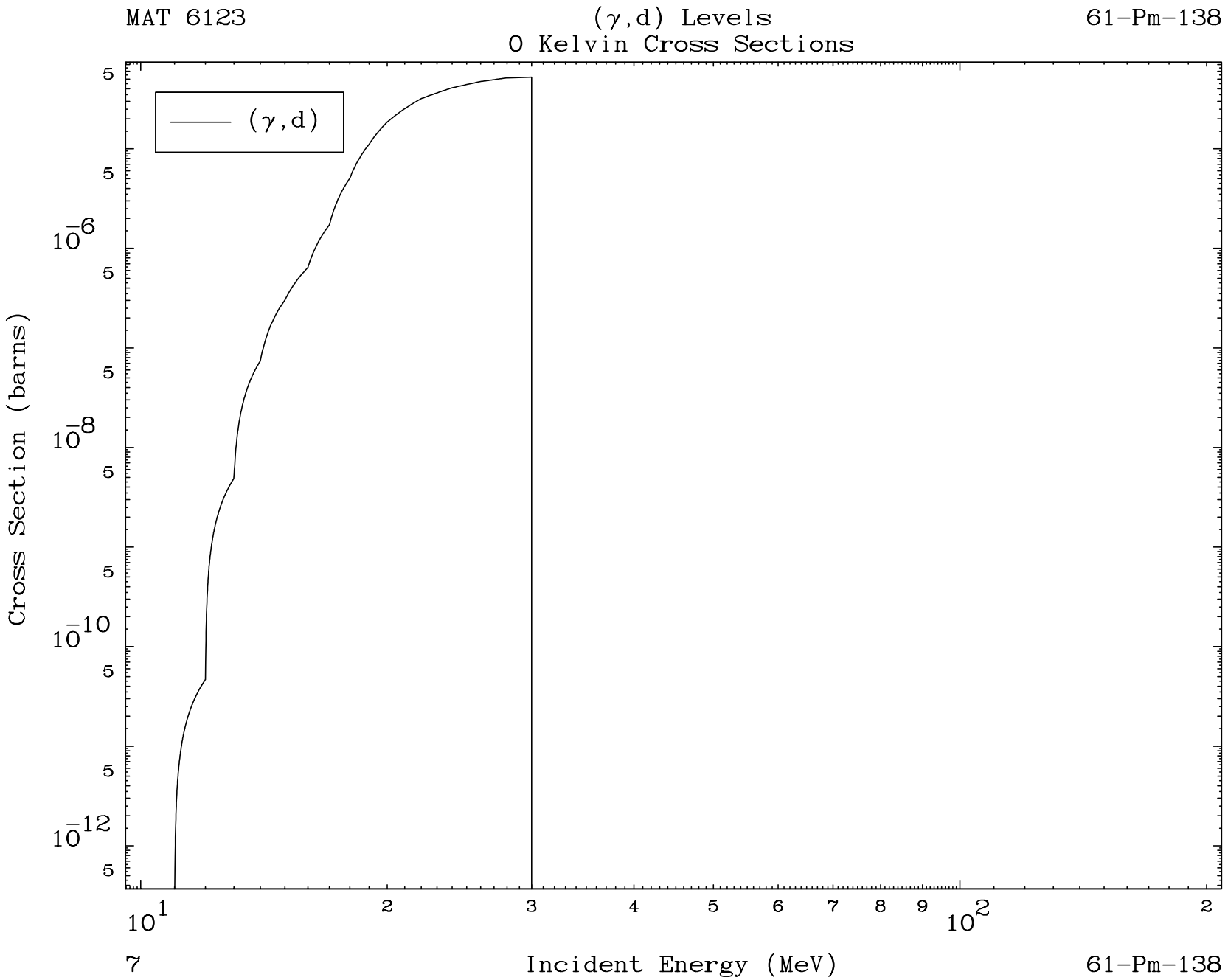

MAT 6123
Photon Neutron Production
0 Kelvin Cross Sections
61-Pm-138
Cross Section (barns)
Incident Energy (MeV)
61-Pm-138
(γ,2n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,n') t
(γ,2n) p

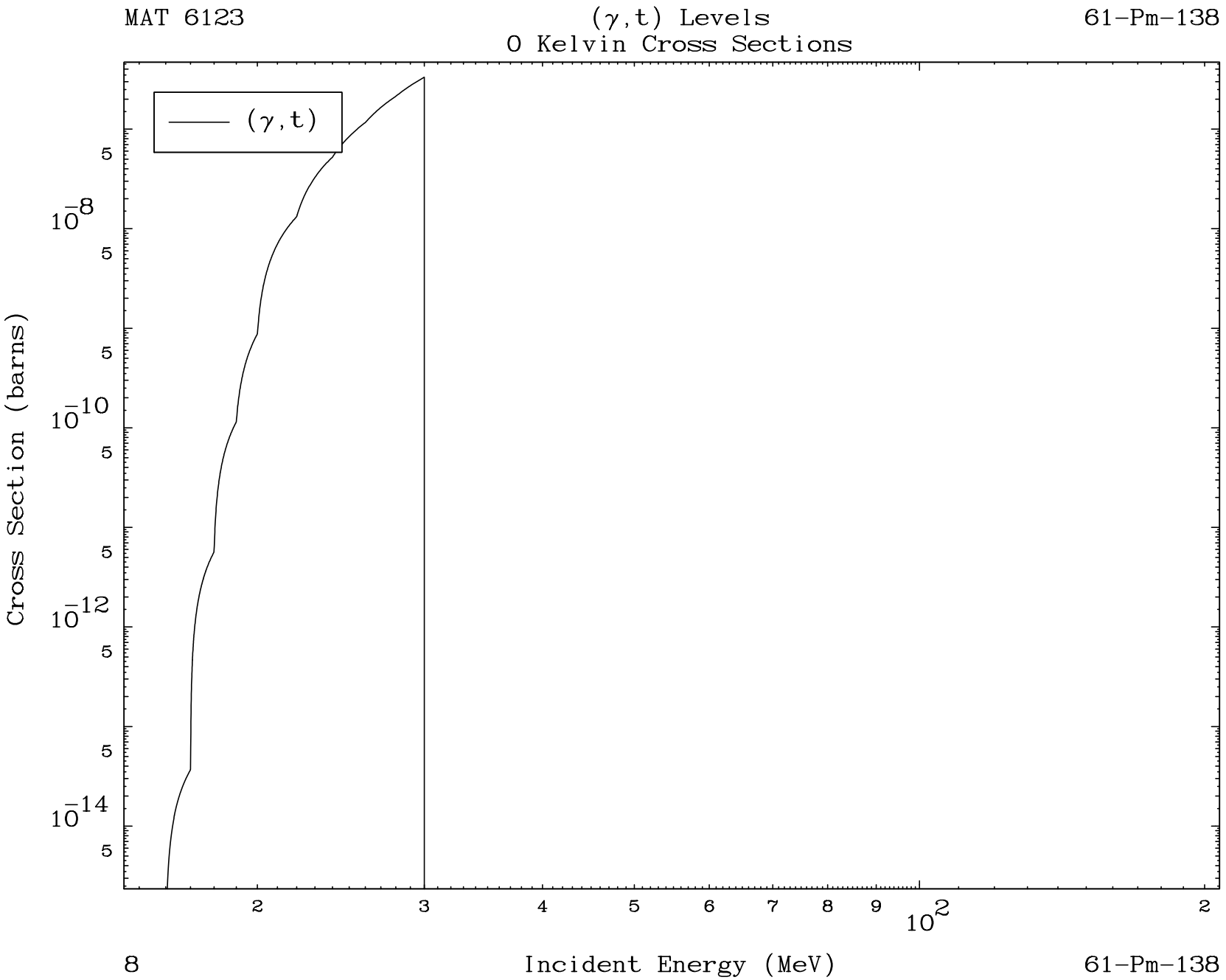

MAT 6123
Photon Charged Particle
0 Kelvin Cross Sections
61-Pm-138
Cross Section (barns)
Incident Energy (MeV)
61-Pm-138
3
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)

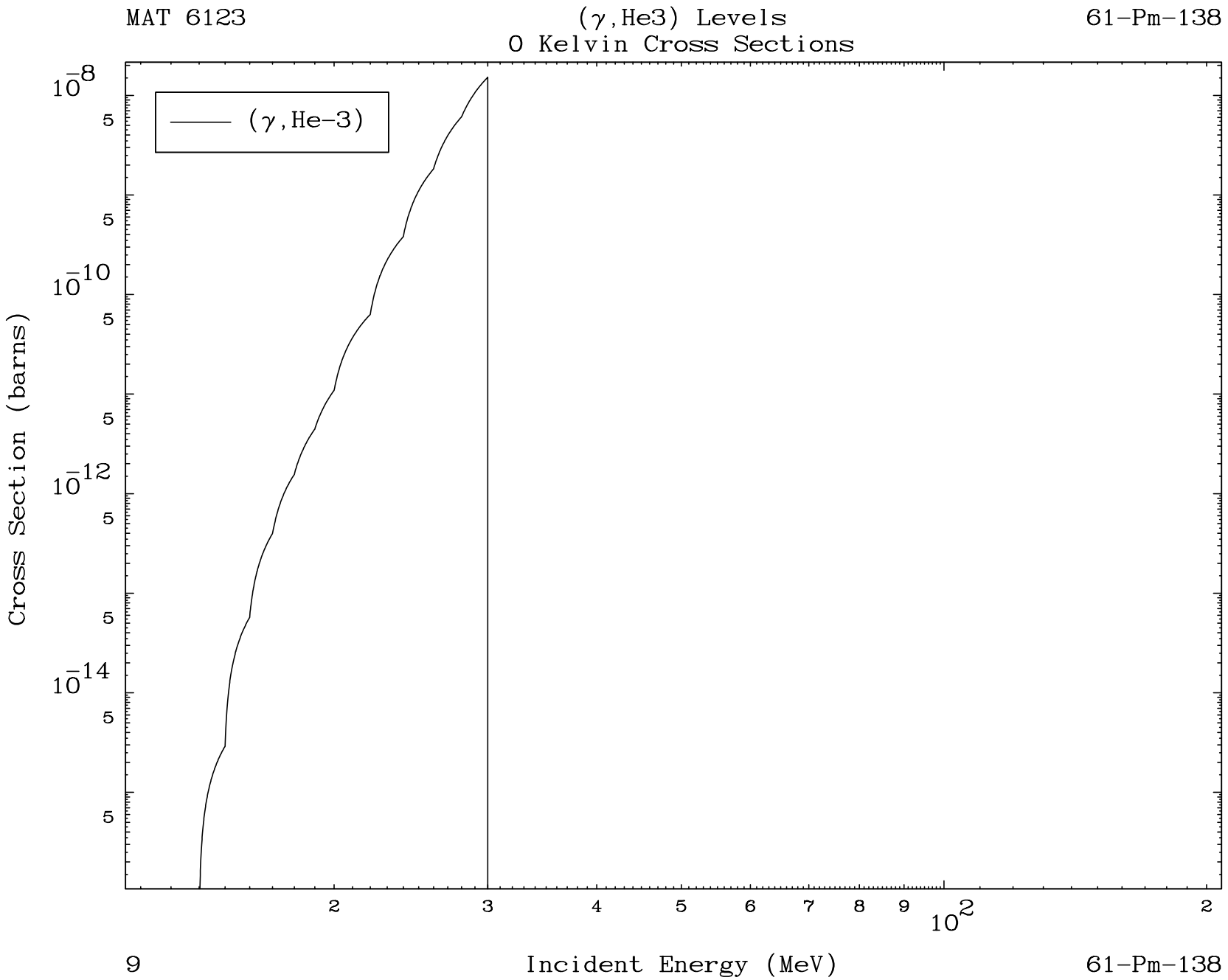

MAT 6123
Photon Charged Particle
0 Kelvin Cross Sections
61-Pm-138
(γ,d)
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
61-Pm-138

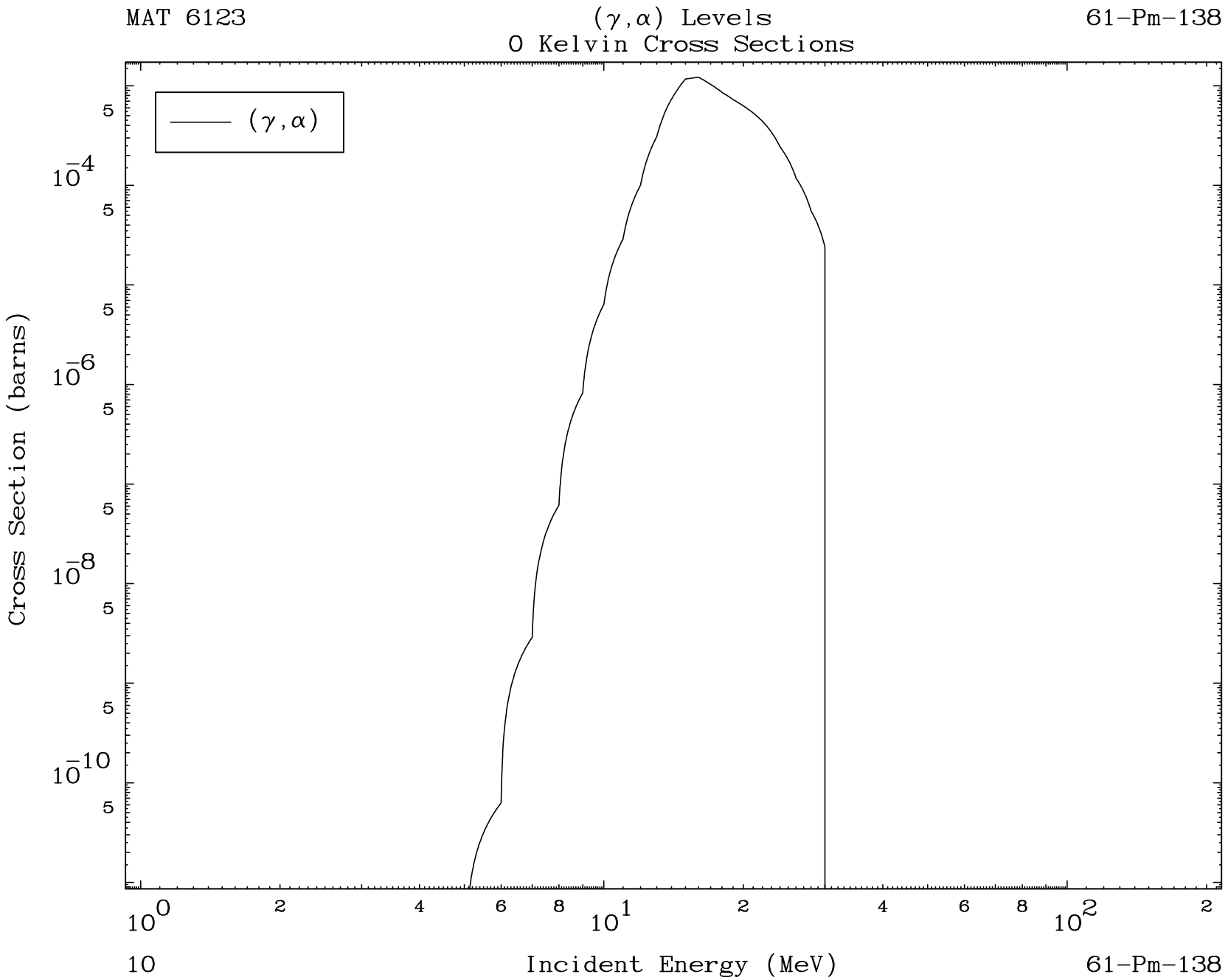

MAT 6123
(γ,n') Level
61-Pm-138
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^1
10^2
Incident Energy (MeV)
61-Pm-138

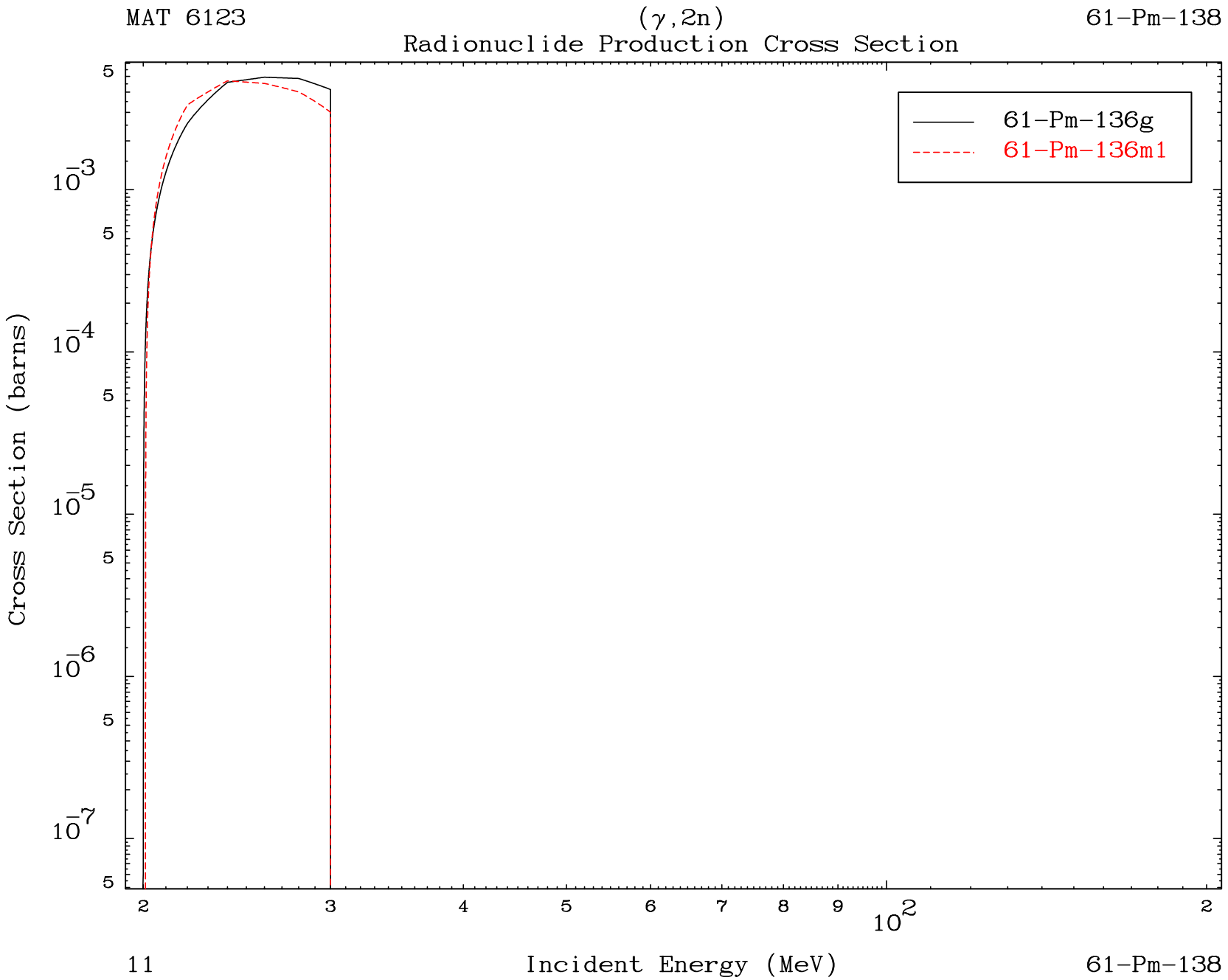

MAT 6123
(γ,p) Levels
61-Pm-138
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
61-Pm-138

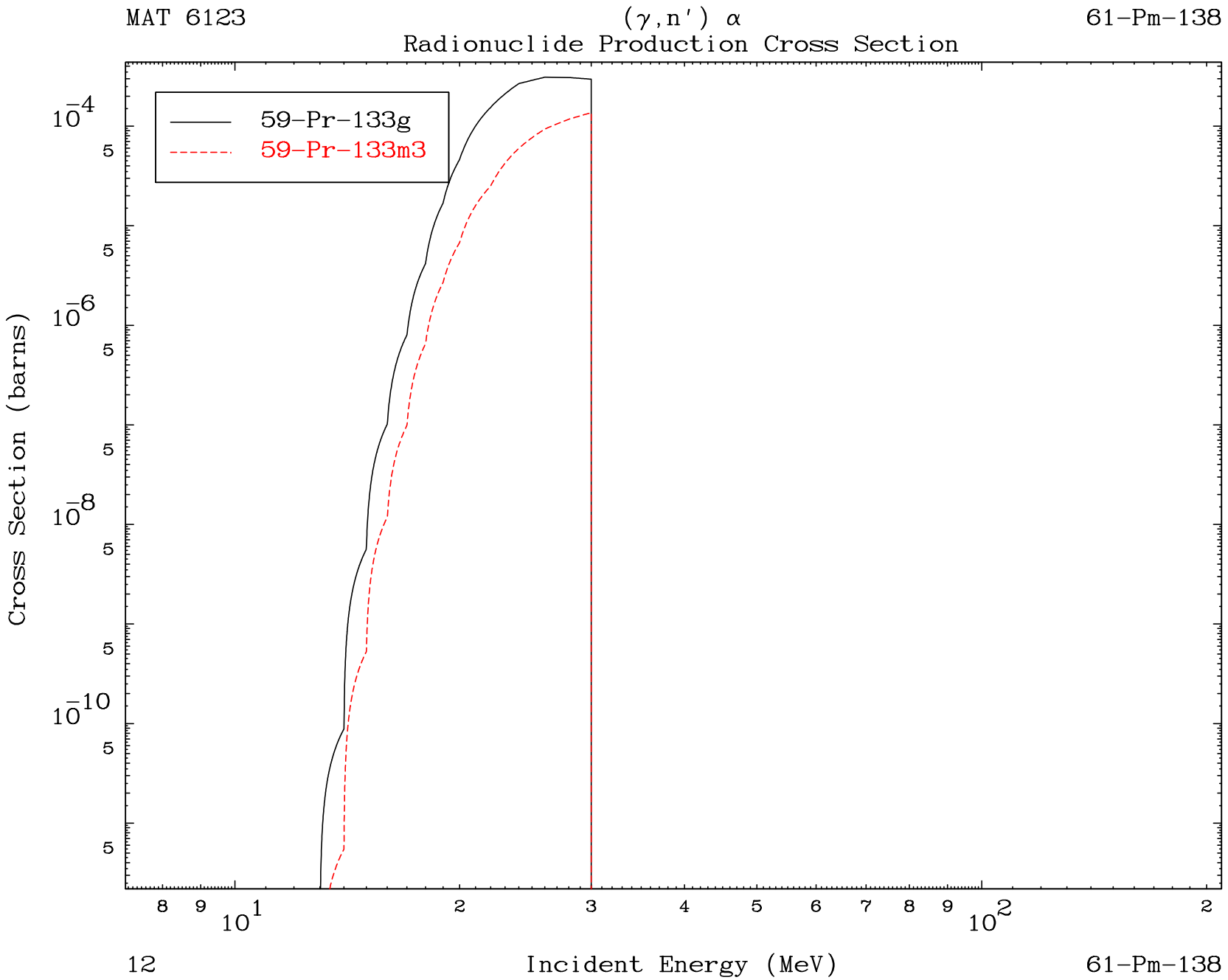

MAT 6123
(γ,d) Levels
61-Pm-138
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
Incident Energy (MeV)
61-Pm-138
7

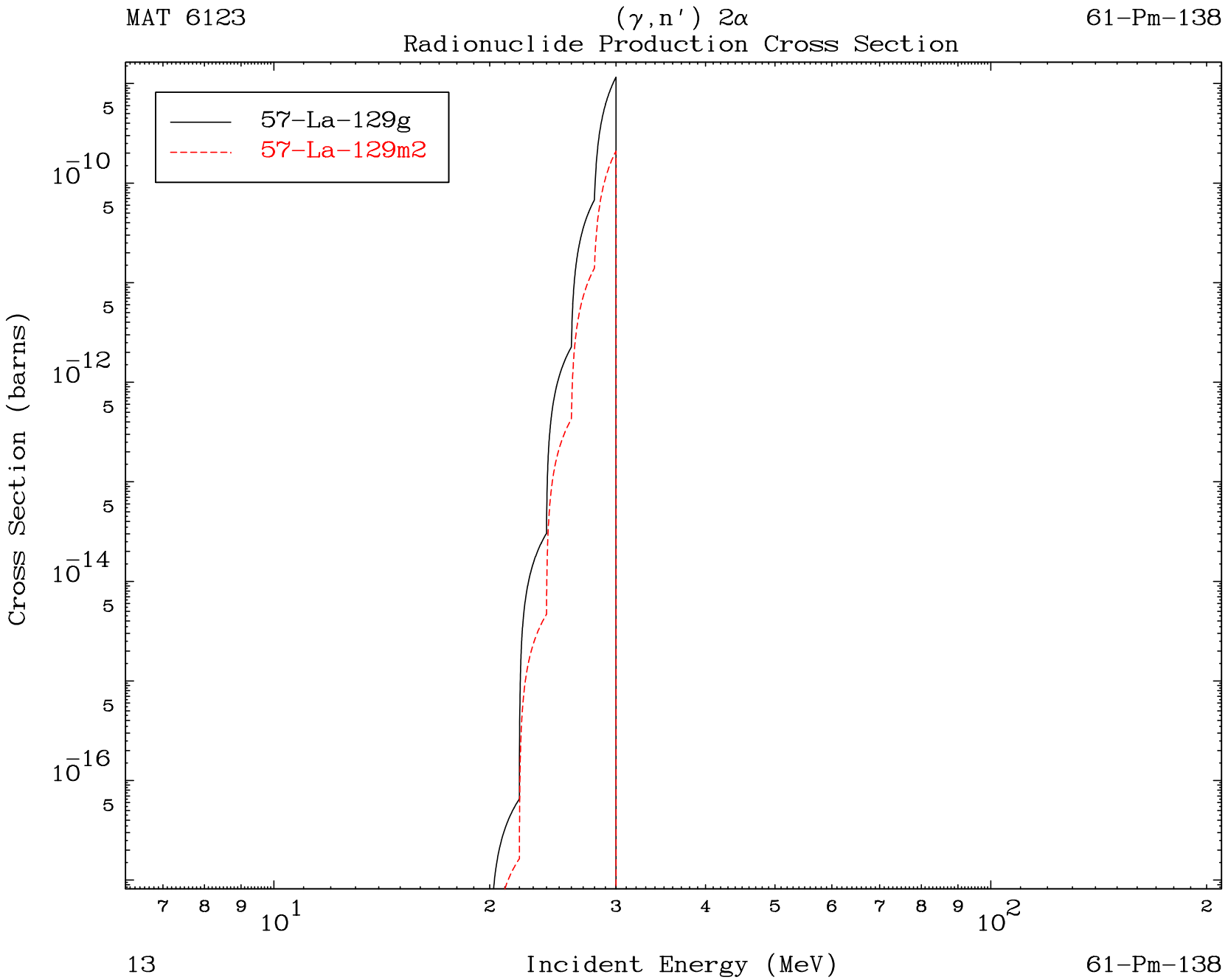

MAT 6123
(γ,t) Levels
61-Pm-138
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
8
Incident Energy (MeV)
61-Pm-138

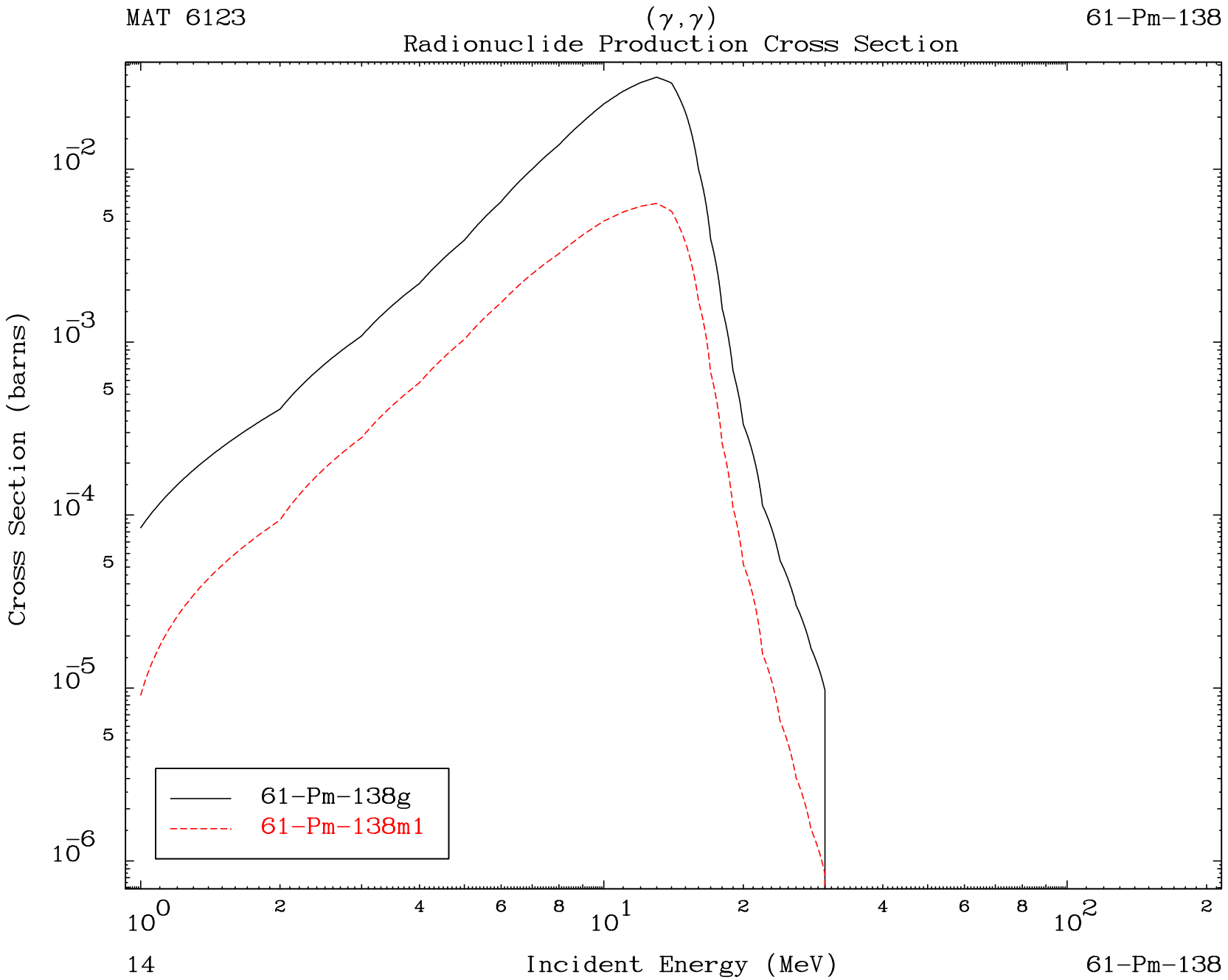

MAT 6123
(γ,He3) Levels
61-Pm-138
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
61-Pm-138

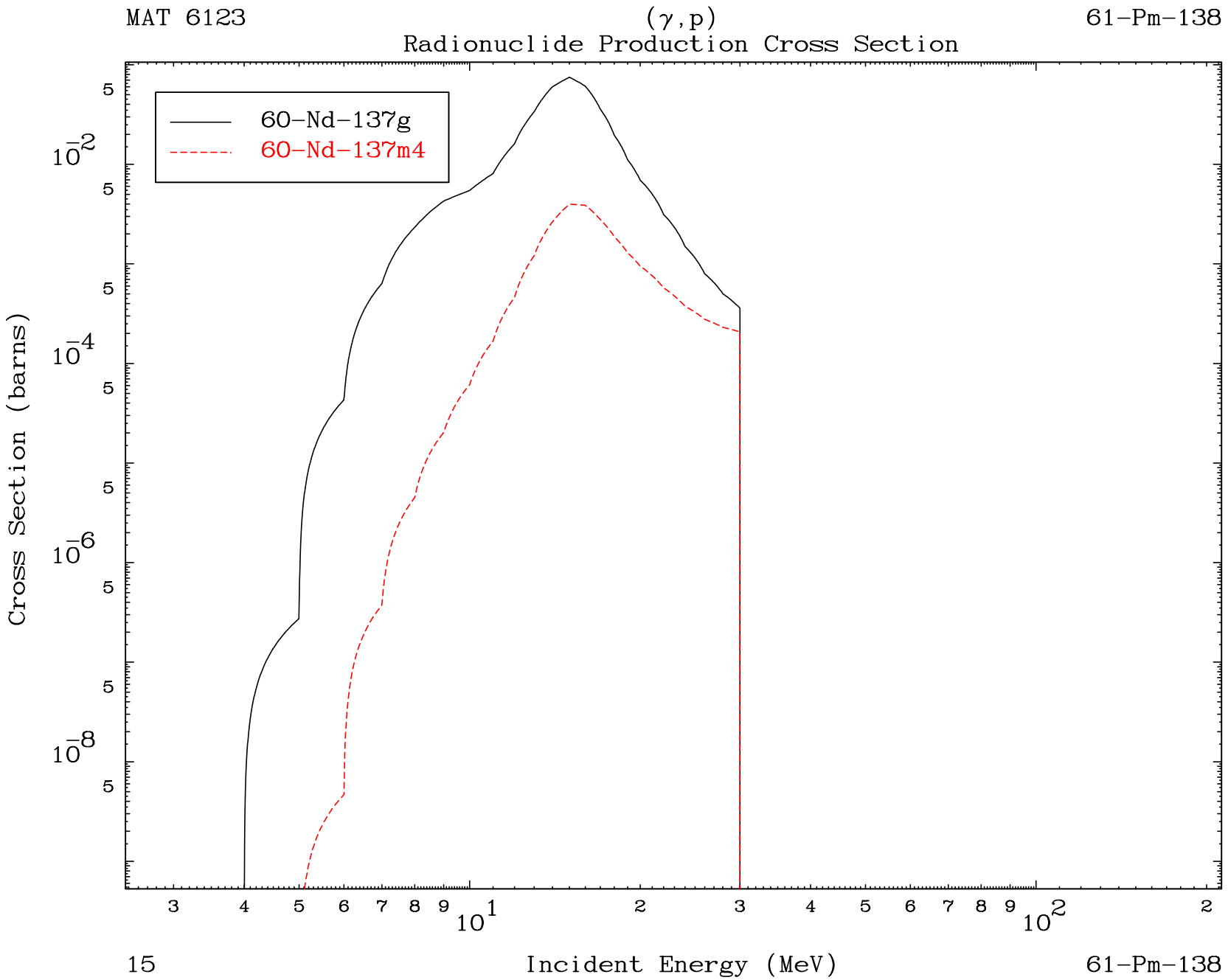

MAT 6123
(γ,α) Levels
61-Pm-138
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
61-Pm-138

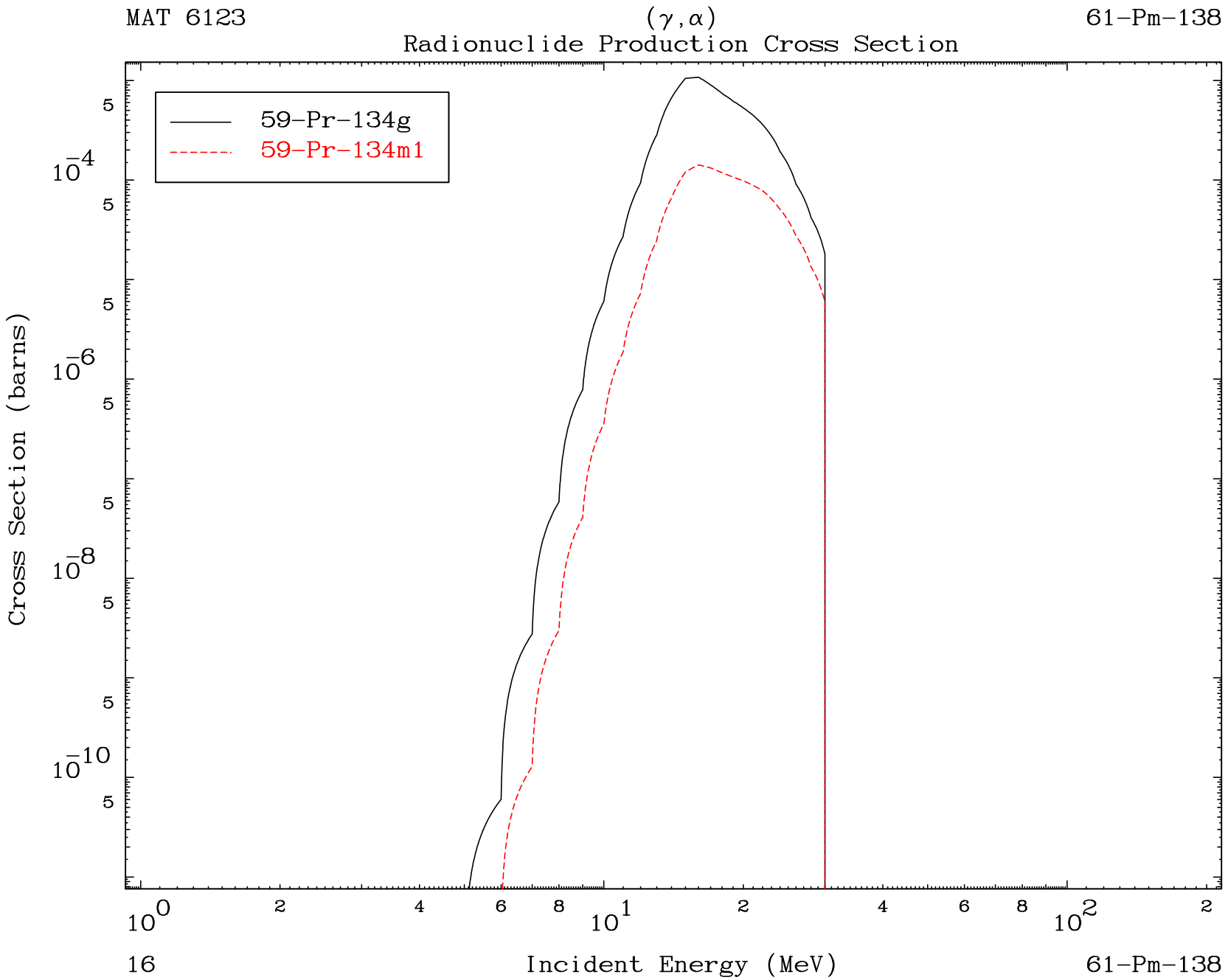

MAT 6123
(γ,2n)
61-Pm-138
Radionuclide Production Cross Section
61-Pm-136g
61-Pm-136m1
Cross Section (barns)
10-3
10-4
10-5
10-6
10-7
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
61-Pm-138

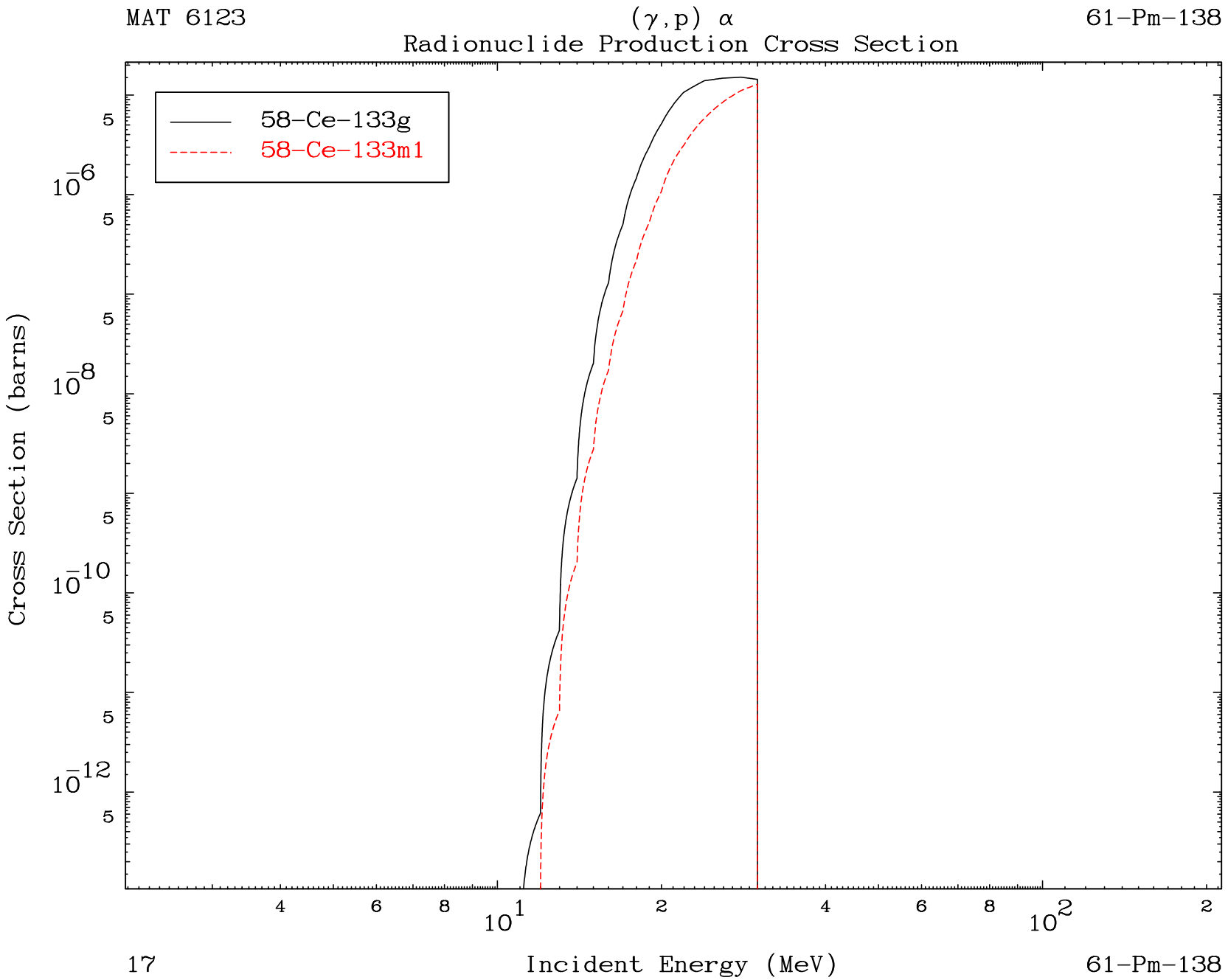

MAT 6123
(γ,n') α
61-Pm-138
Radionuclide Production Cross Section
59-Pr-133g
59-Pr-133m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
12
61-Pm-138


MAT 6123
(γ,n') 2α
61-Pm-138
Radionuclide Production Cross Section
57-La-129g
57-La-129m2
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
7 8 9
10^1
2 3 4 5 6 7 8 9
10^2
2
13
Incident Energy (MeV)
61-Pm-138


MAT 6123
(γ,γ)
61-Pm-138
Radionuclide Production Cross Section
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
61-Pm-138g
61-Pm-138m1
100
2
4
6
8
101
2
4
6
8
102
2
14
Incident Energy (MeV)
61-Pm-138


MAT 6123
(γ,p)
61-Pm-138
Radionuclide Production Cross Section
60-Nd-137g
60-Nd-137m4
Cross Section (barns)
Incident Energy (MeV)
15
61-Pm-138


MAT 6123
(γ,α)
61-Pm-138
Radionuclide Production Cross Section
59-Pr-134g
59-Pr-134m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
16
61-Pm-138


MAT 6123
(γ,p) α
61-Pm-138
Radionuclide Production Cross Section
58-Ce-133g
58-Ce-133m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
4
6
8
10^1
2
10^2
17
Incident Energy (MeV)
61-Pm-138