Program EVALPLOT
(Version 2021-1)
by
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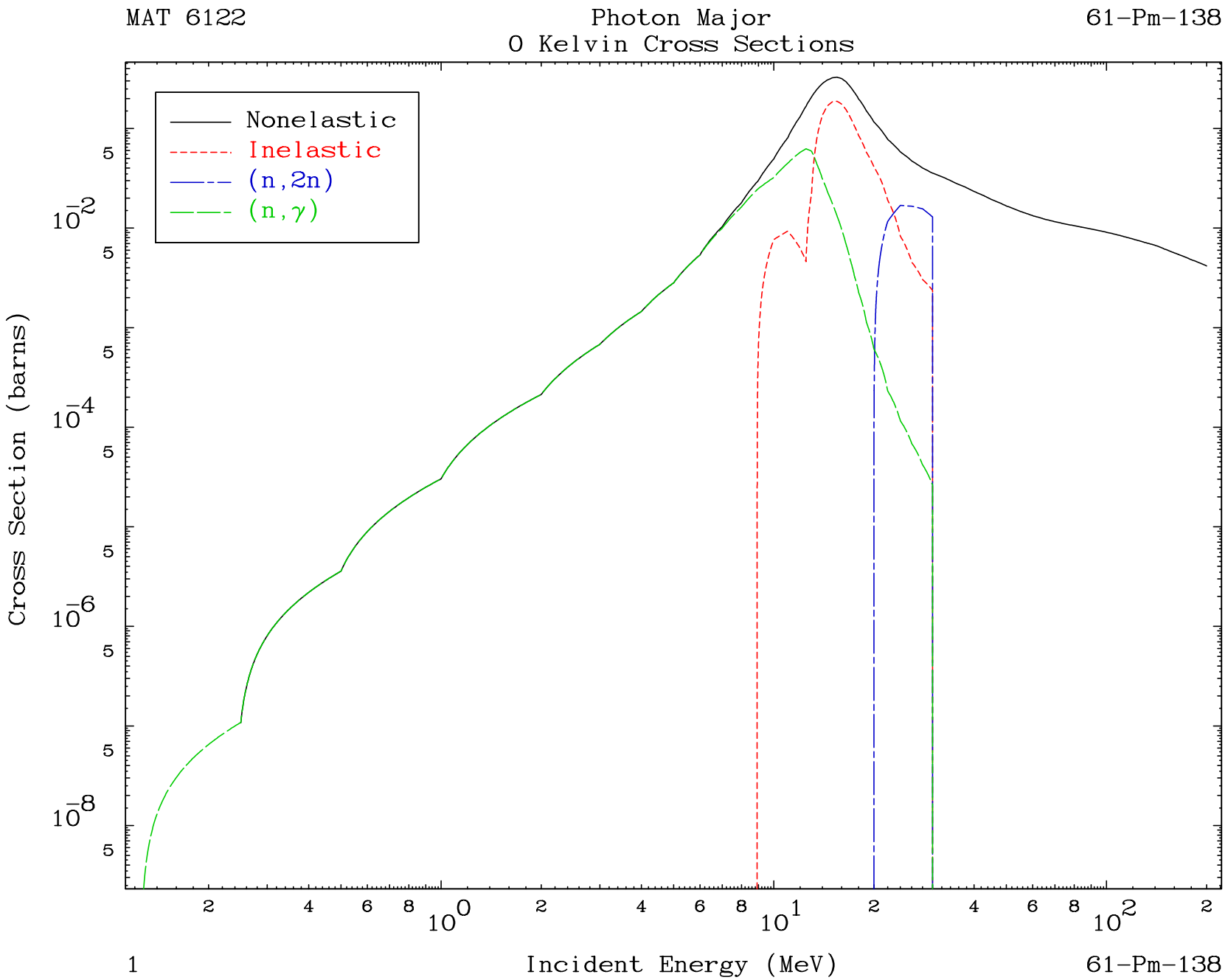
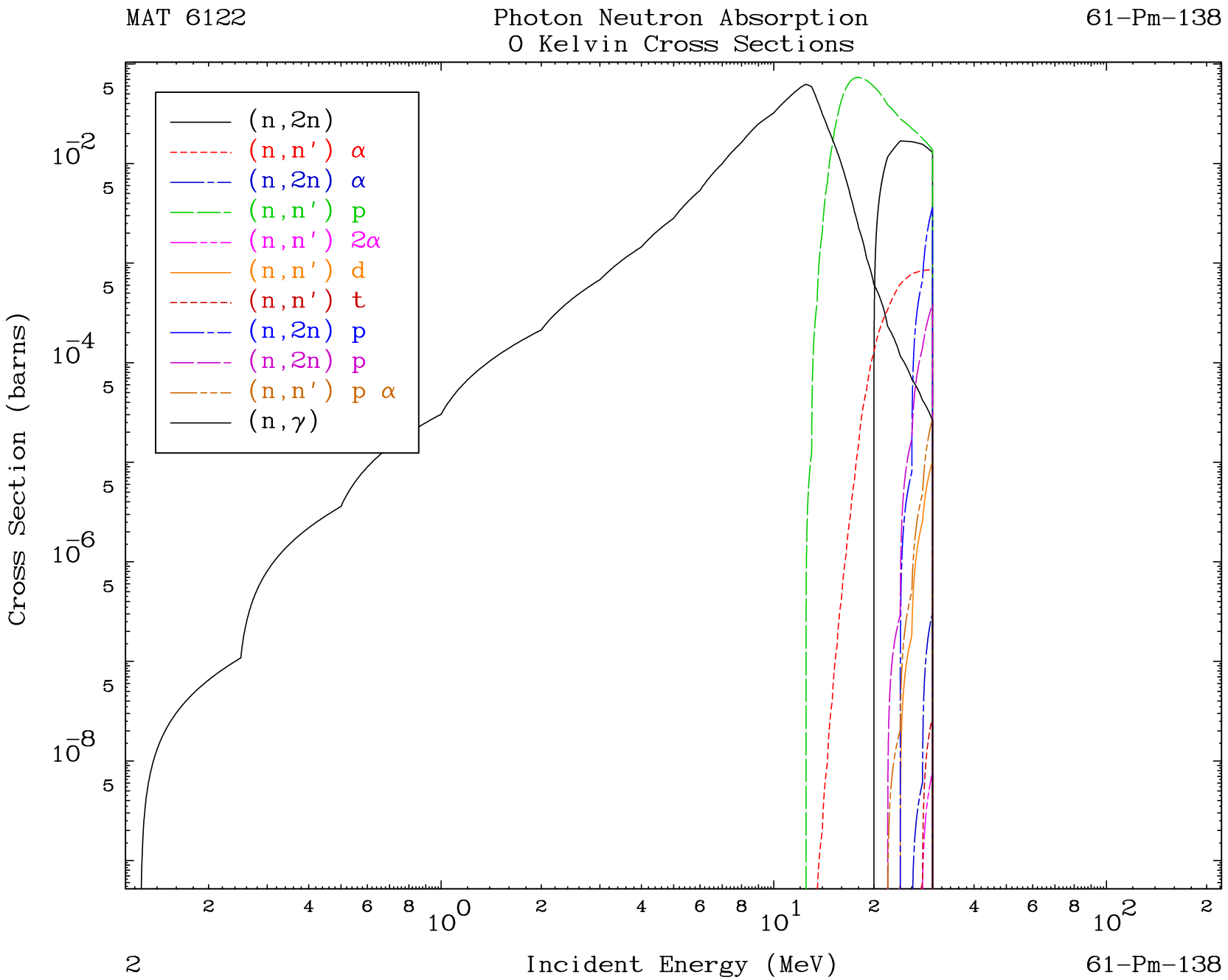
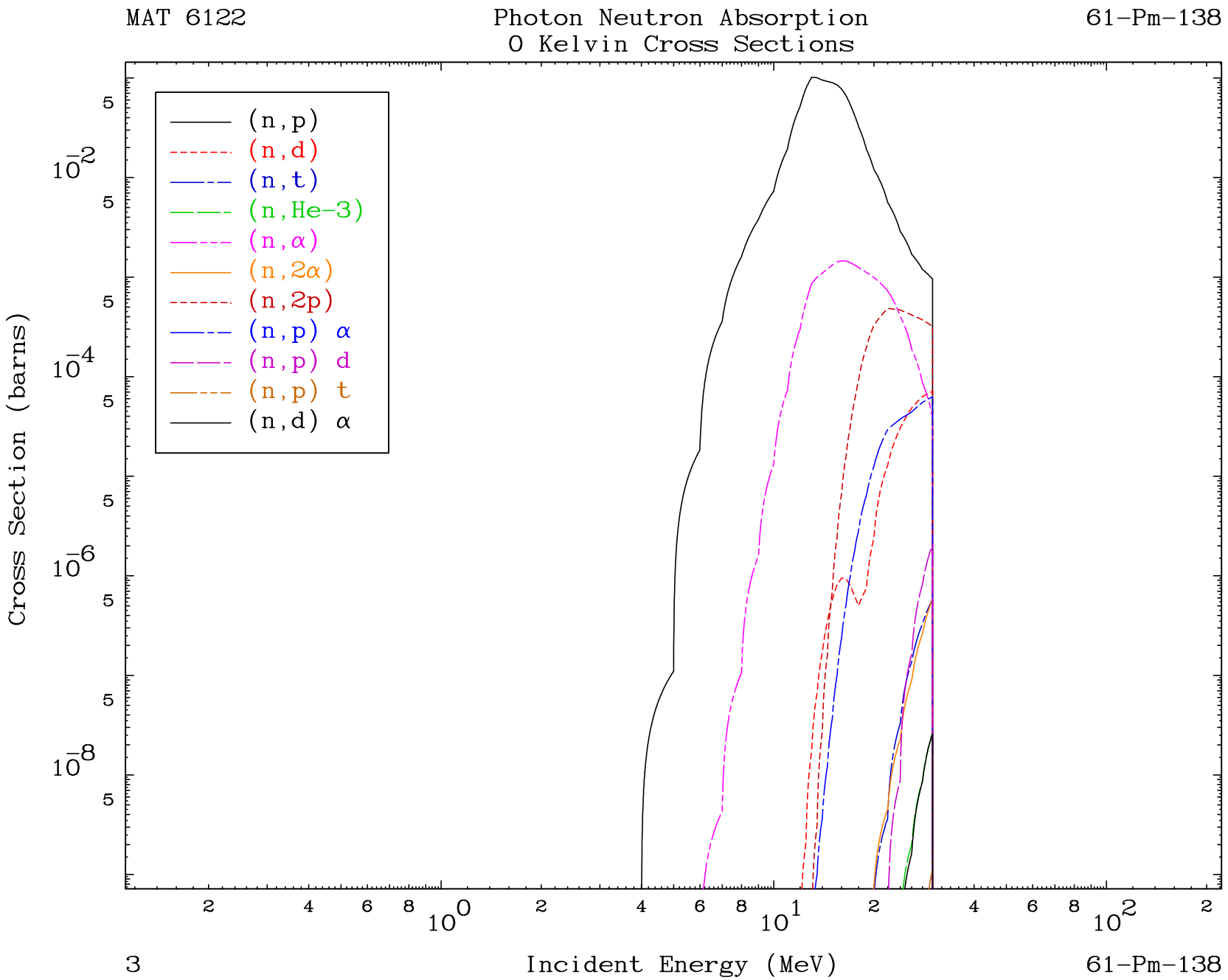
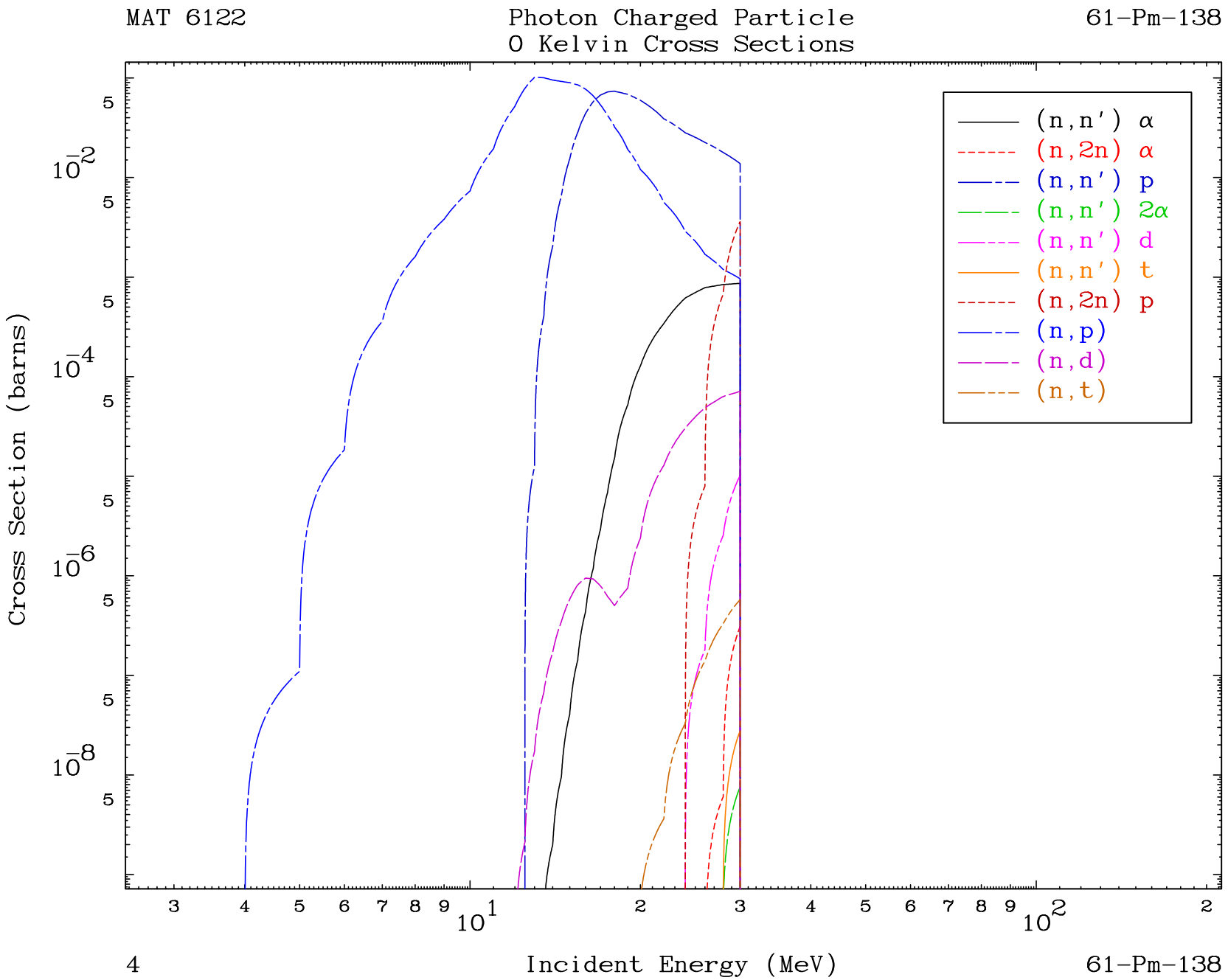
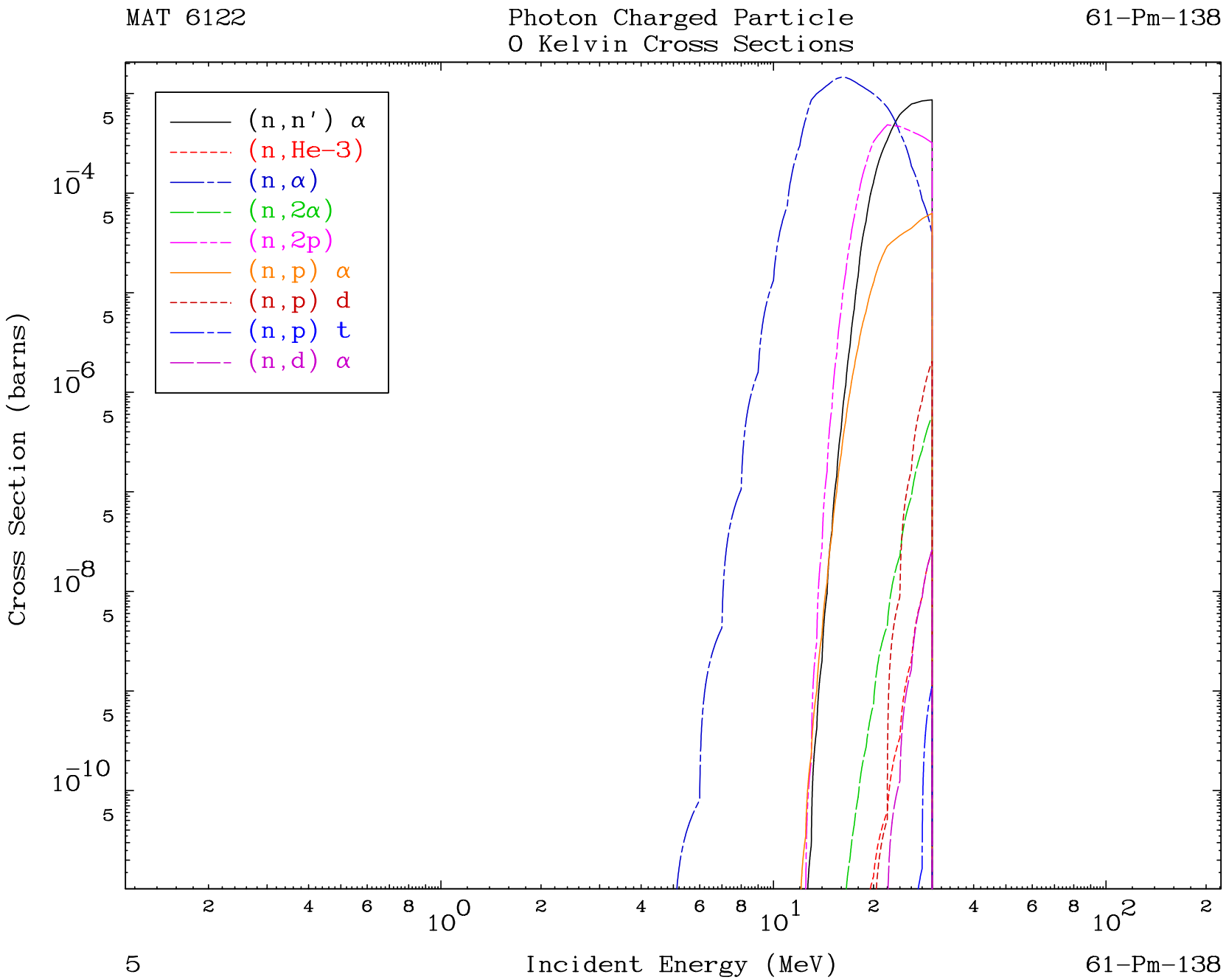
Press Mouse Button to Start

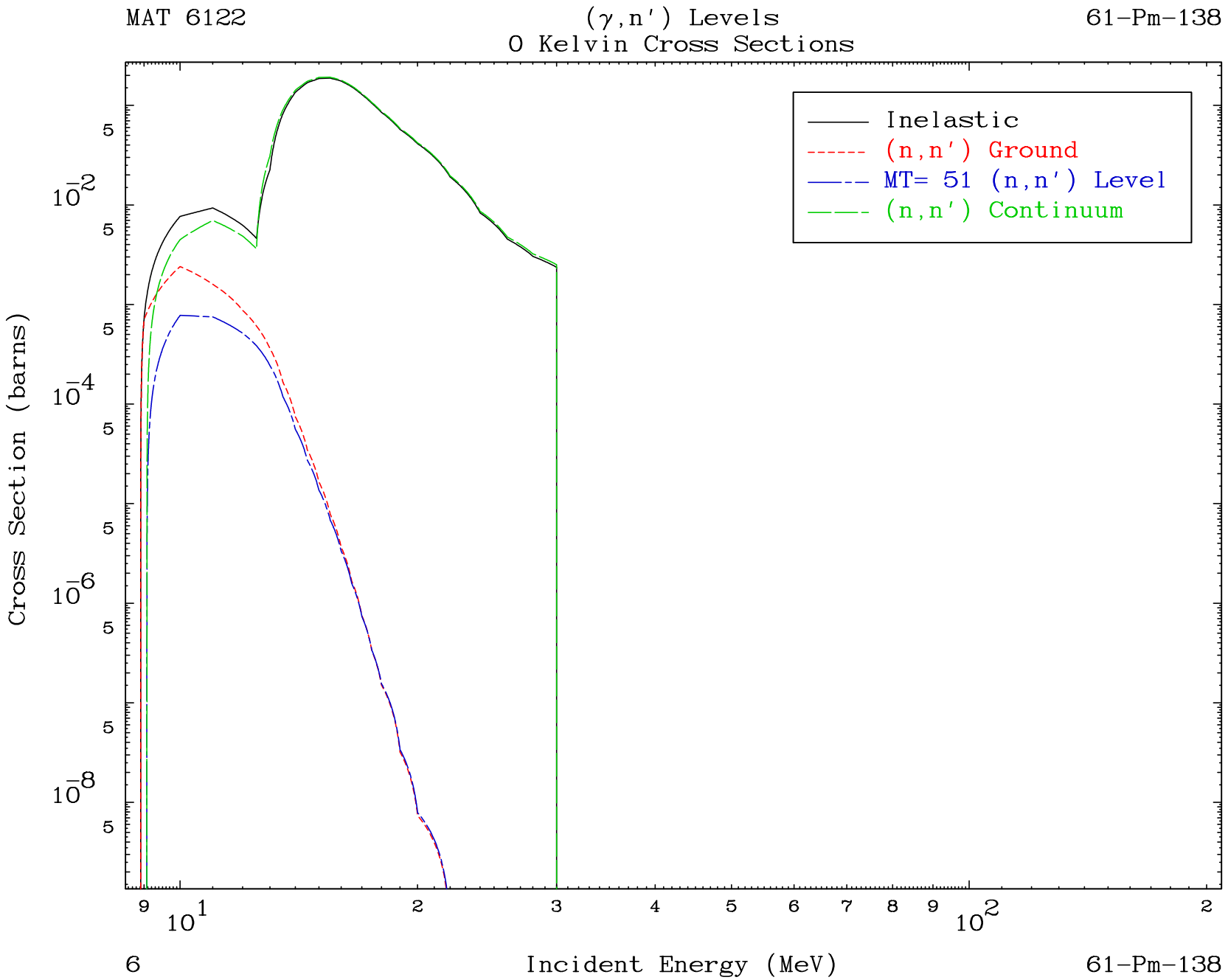

MAT 6122
Photon Major
61-Pm-138
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
61-Pm-138
1

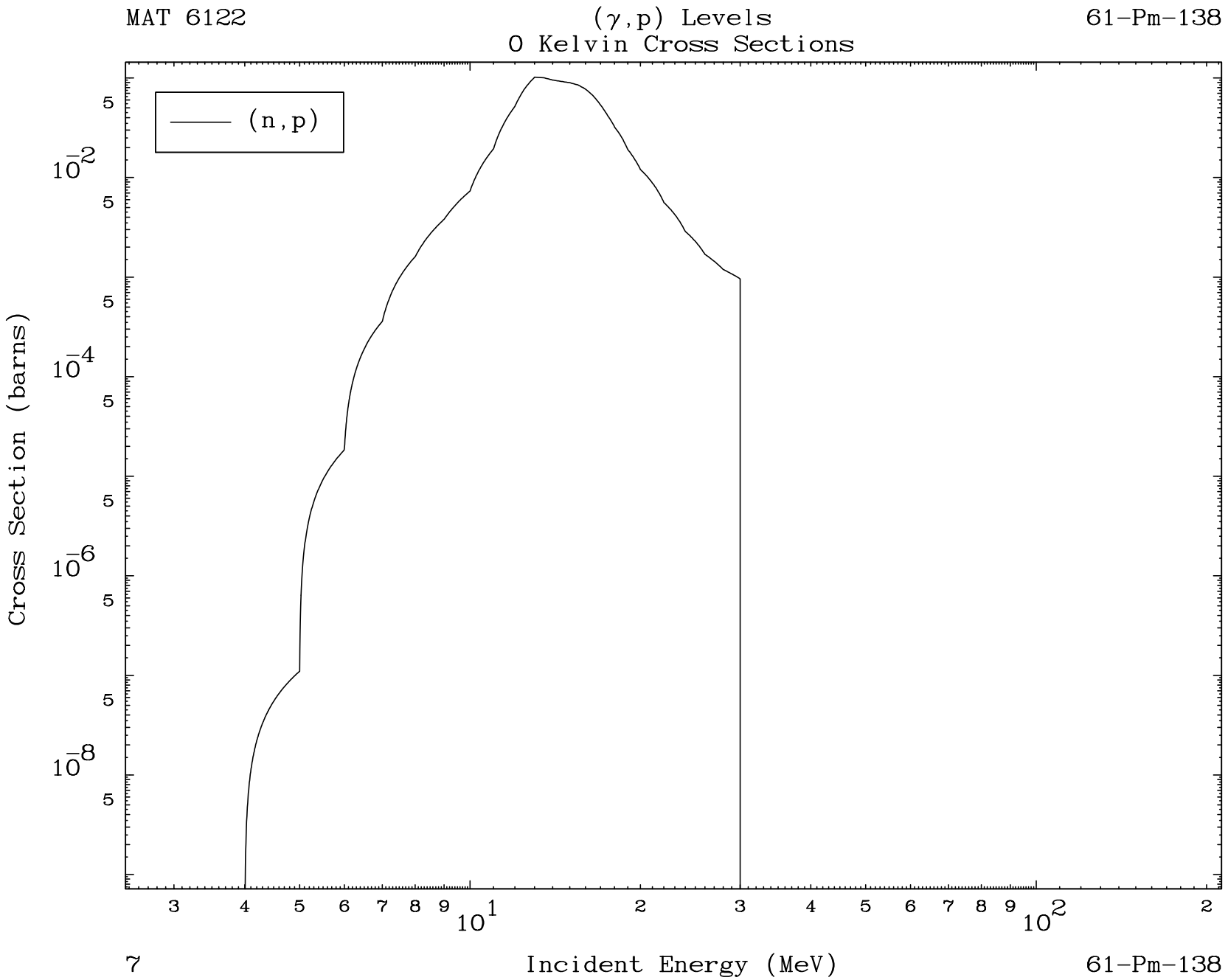

MAT 6122
Photon Neutron Absorption
0 Kelvin Cross Sections
61-Pm-138
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
61-Pm-138

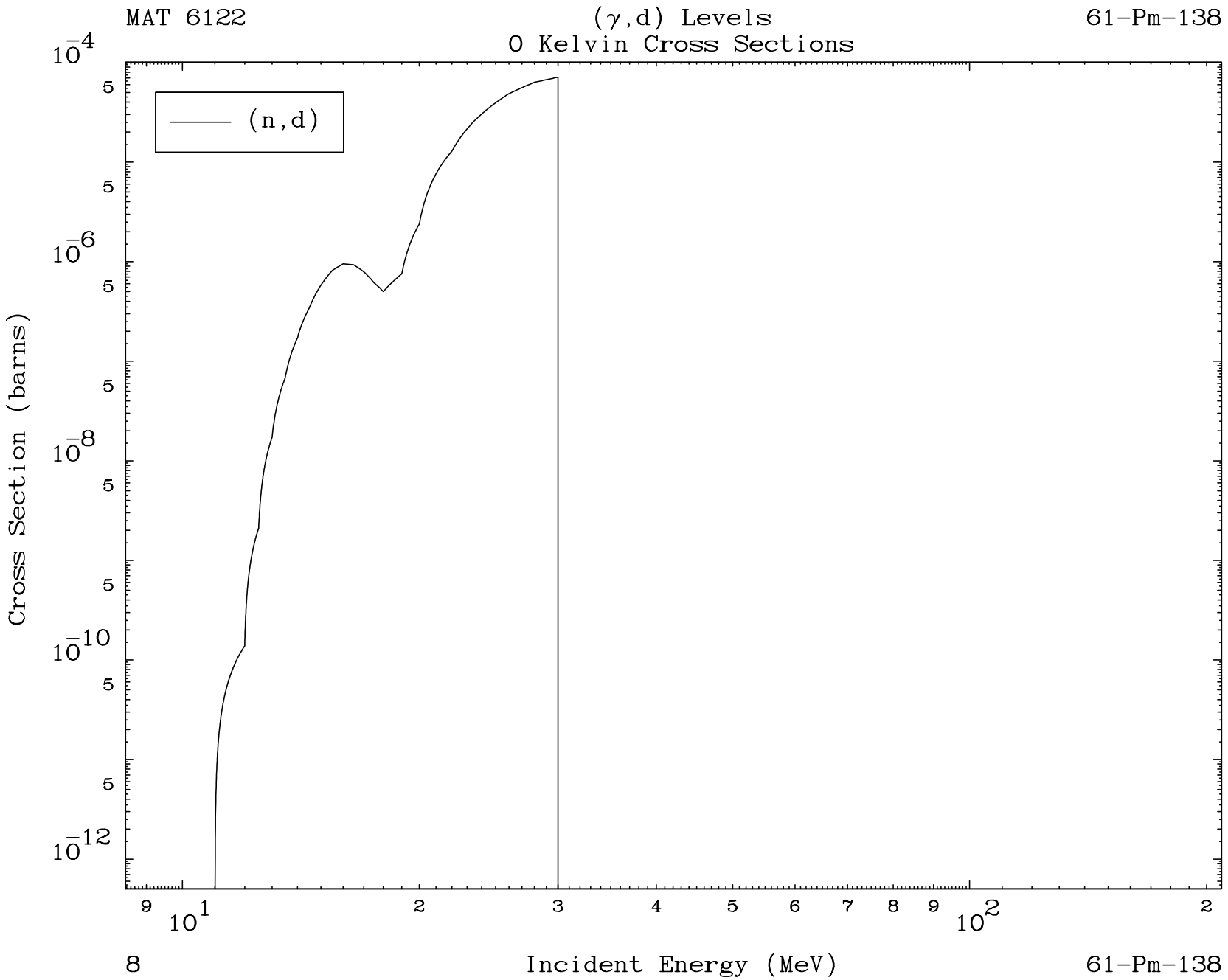

MAT 6122
Photon Neutron Absorption
0 Kelvin Cross Sections
61-Pm-138
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
61-Pm-138

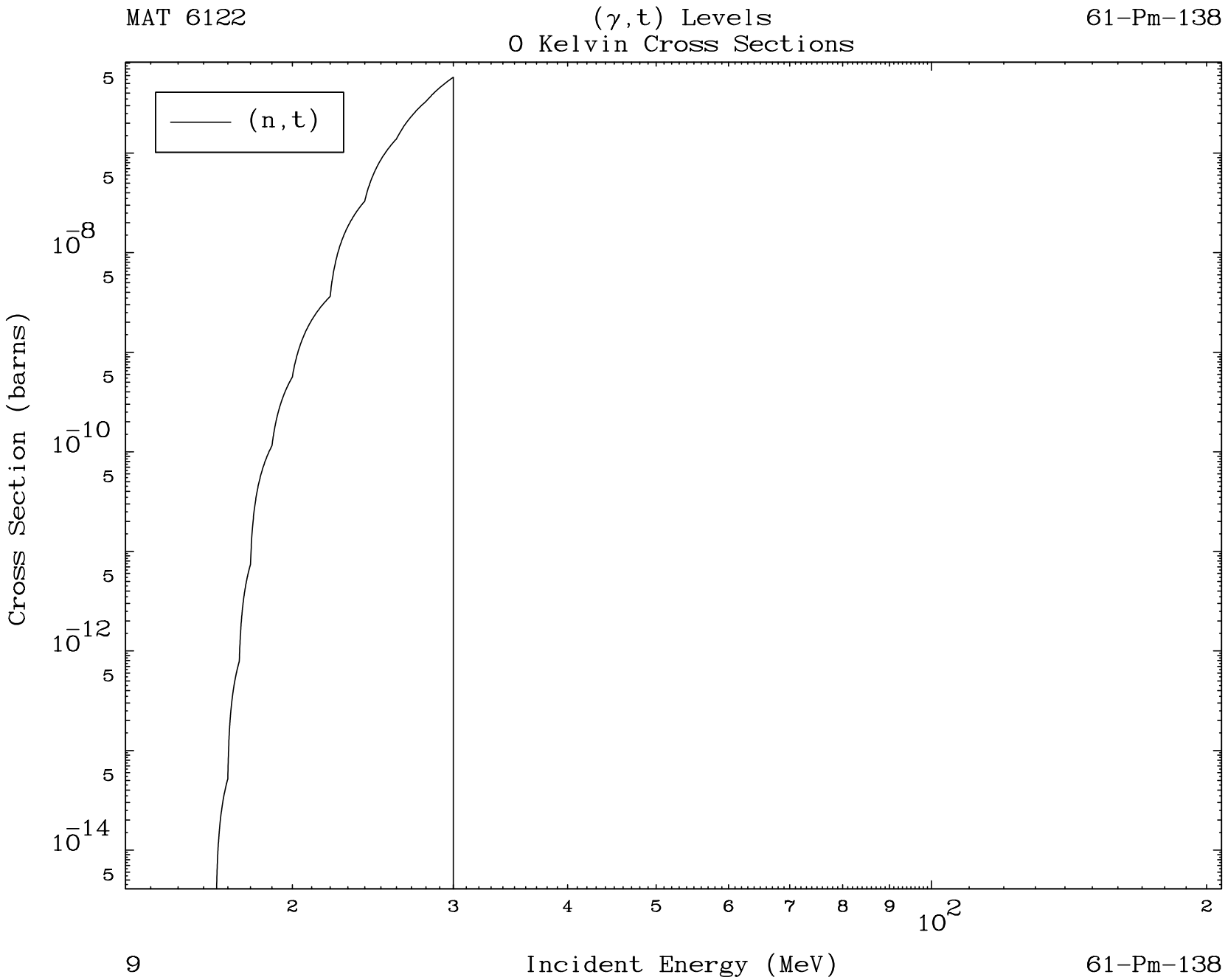

MAT 6122
Photon Charged Particle
0 Kelvin Cross Sections
61-Pm-138
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,2n) p
(n,p)
(n,d)
(n,t)
4
61-Pm-138

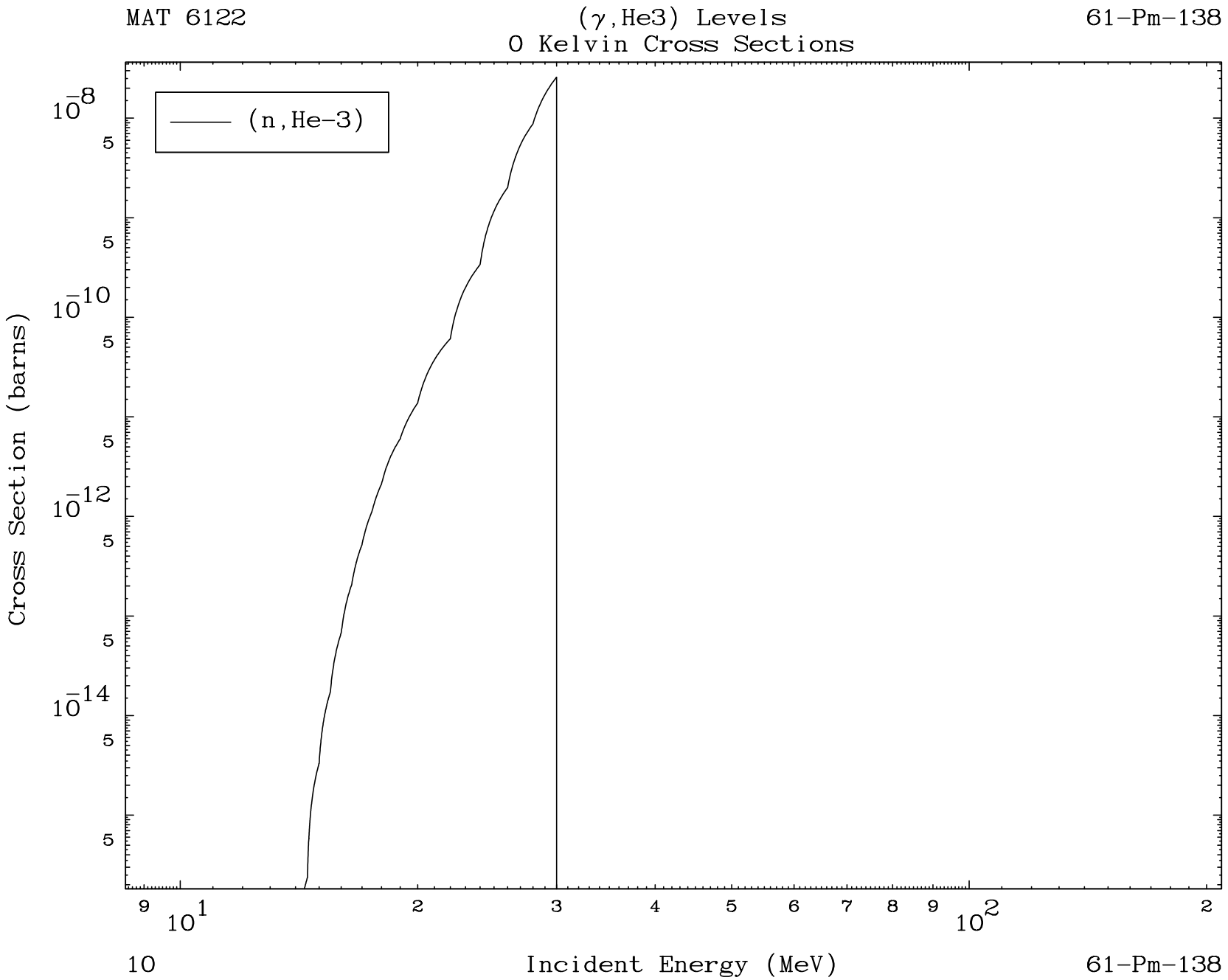

MAT 6122
Photon Charged Particle
0 Kelvin Cross Sections
61-Pm-138
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
61-Pm-138

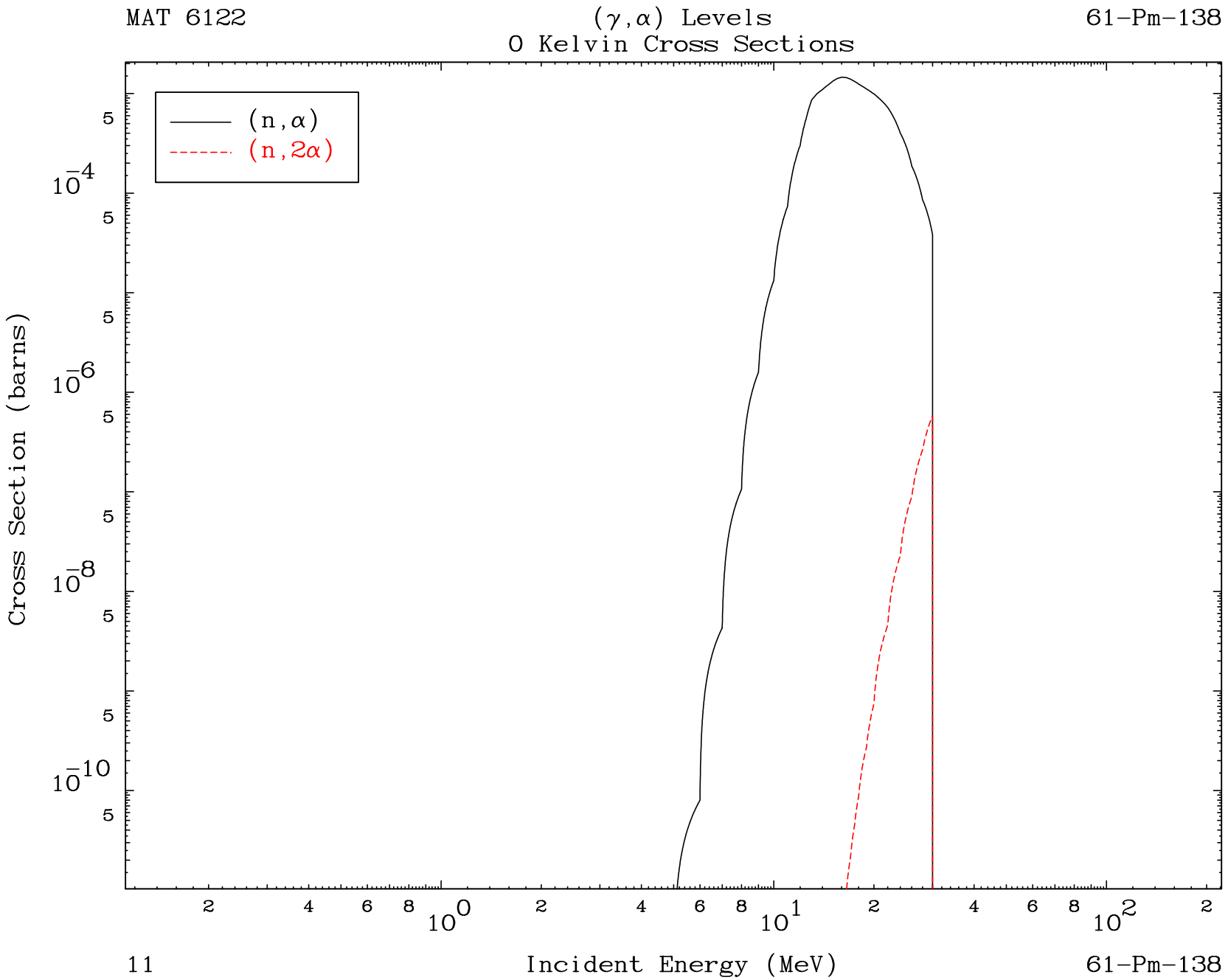

MAT 6122
(γ,n') Levels
0 Kelvin Cross Sections
61-Pm-138
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
61-Pm-138
6

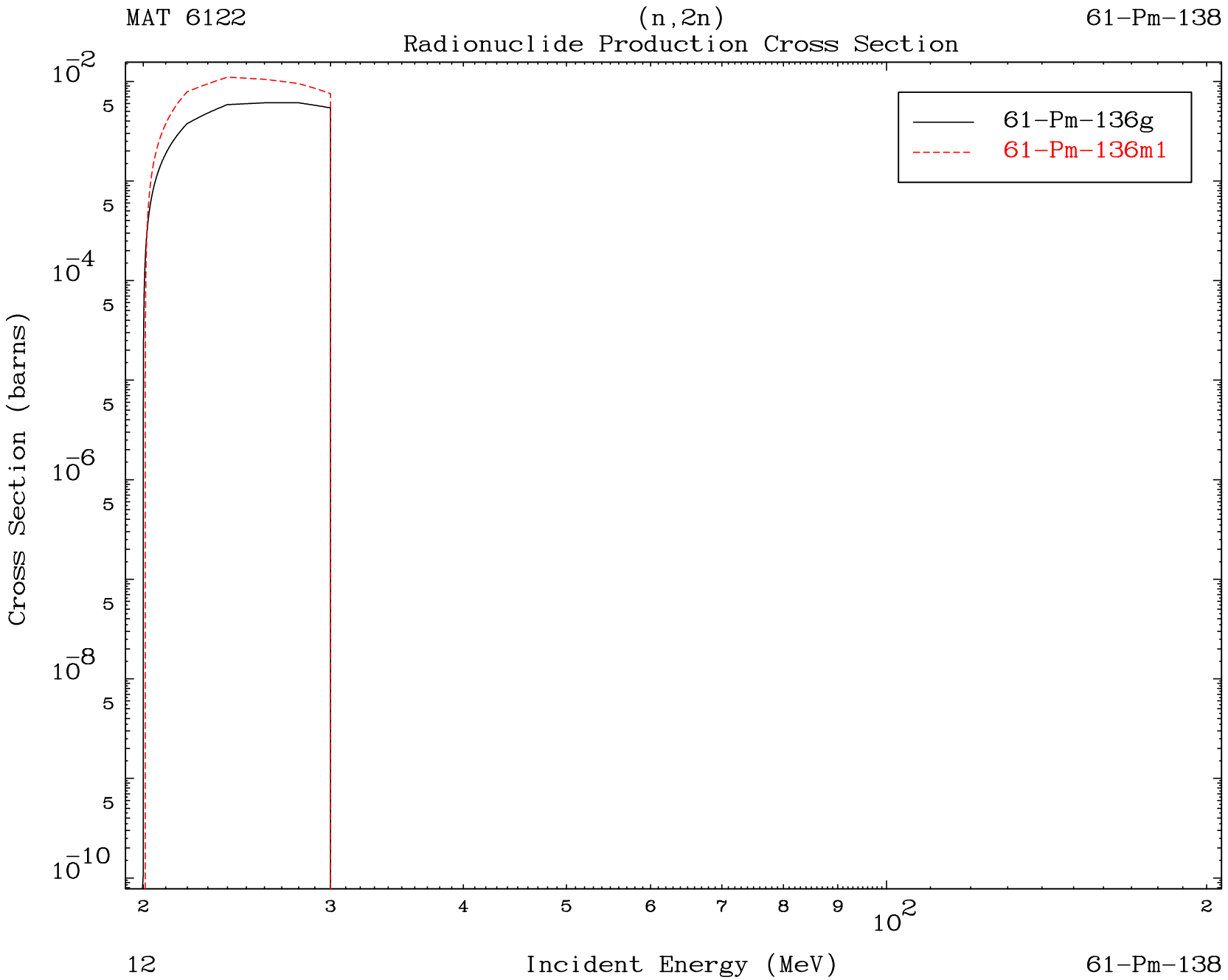

MAT 6122
(γ,p) Levels
61-Pm-138
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
7
61-Pm-138

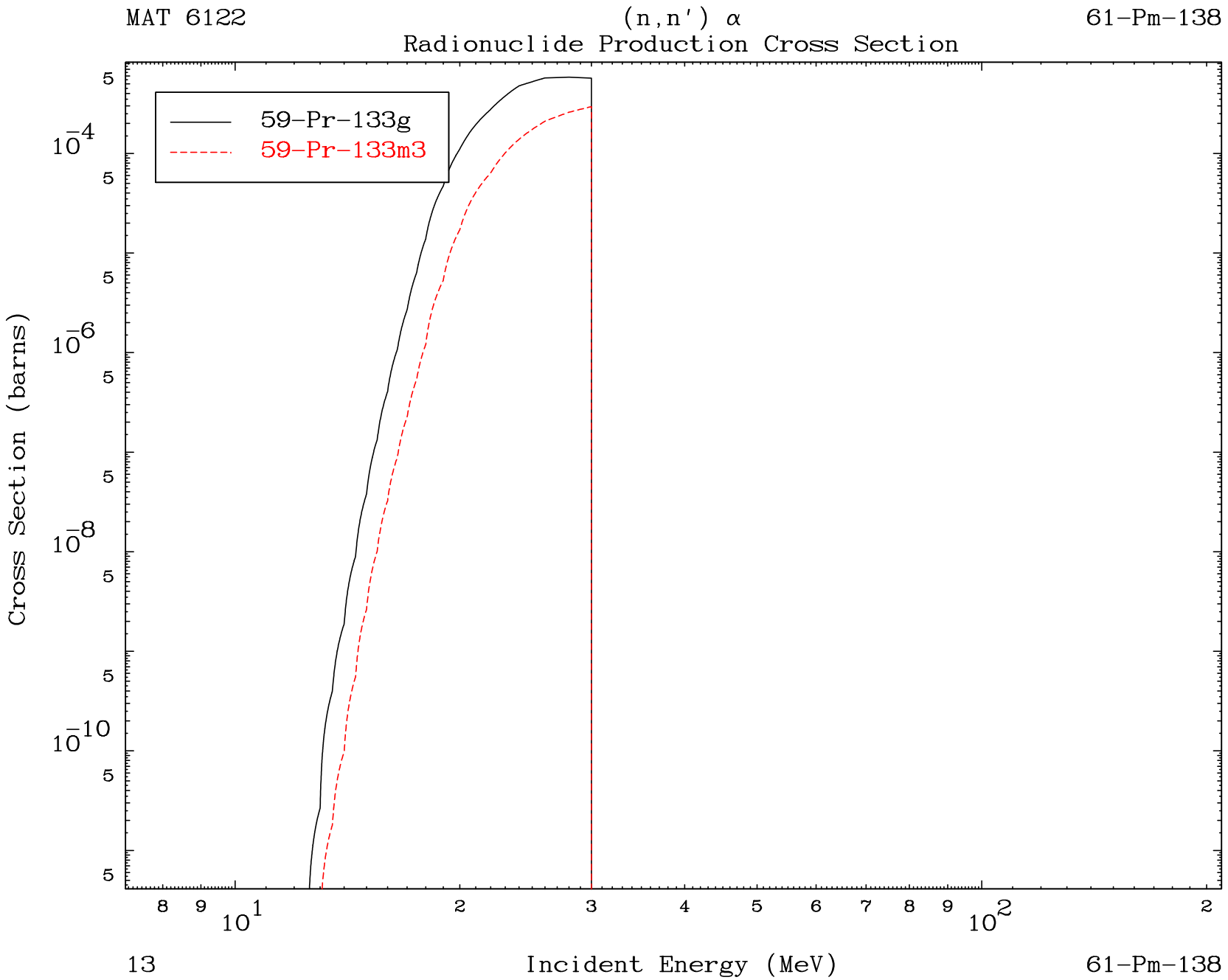

MAT 6122
(γ,d) Levels
61-Pm-138
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
61-Pm-138

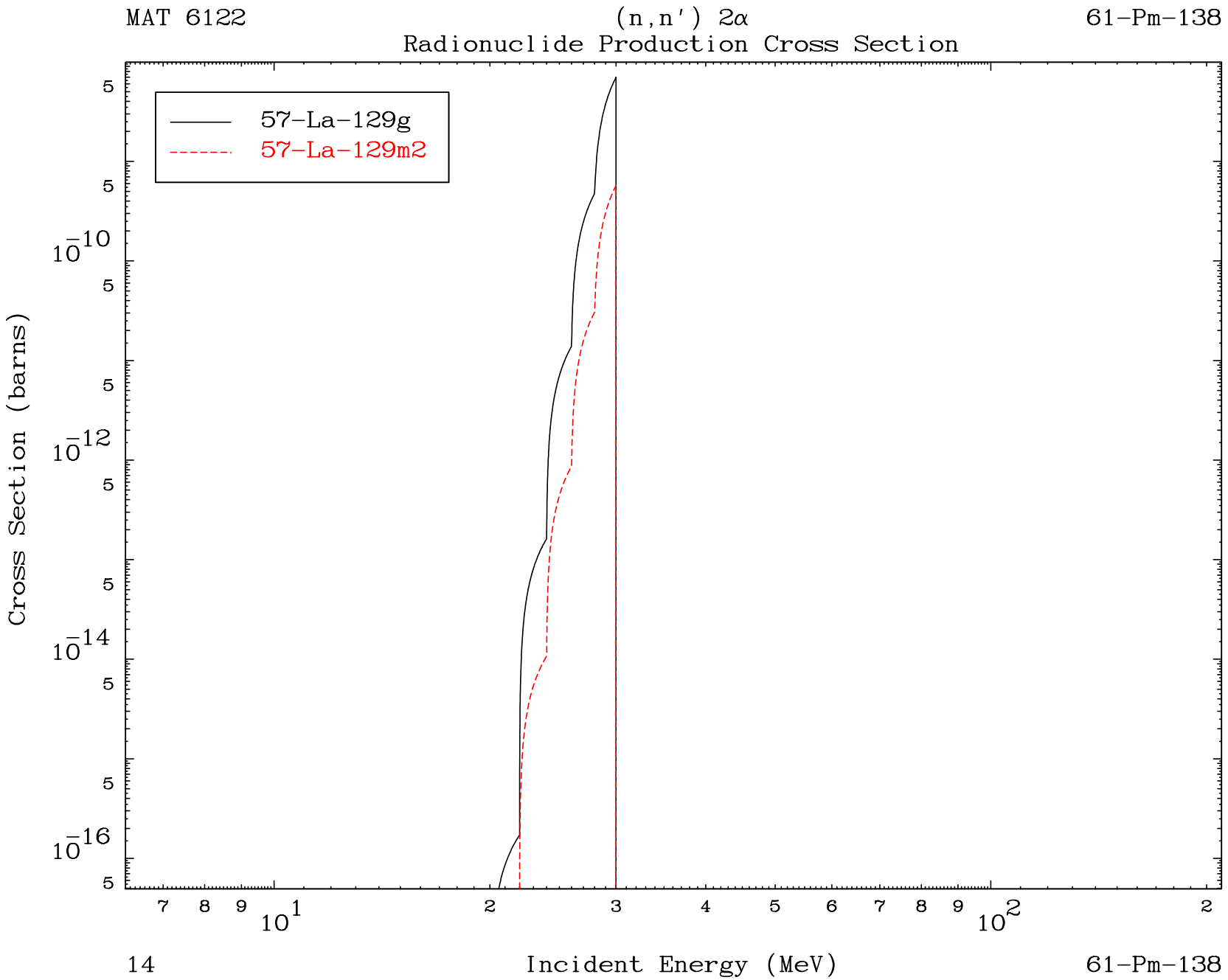

MAT 6122
(γ,t) Levels
61-Pm-138
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
61-Pm-138

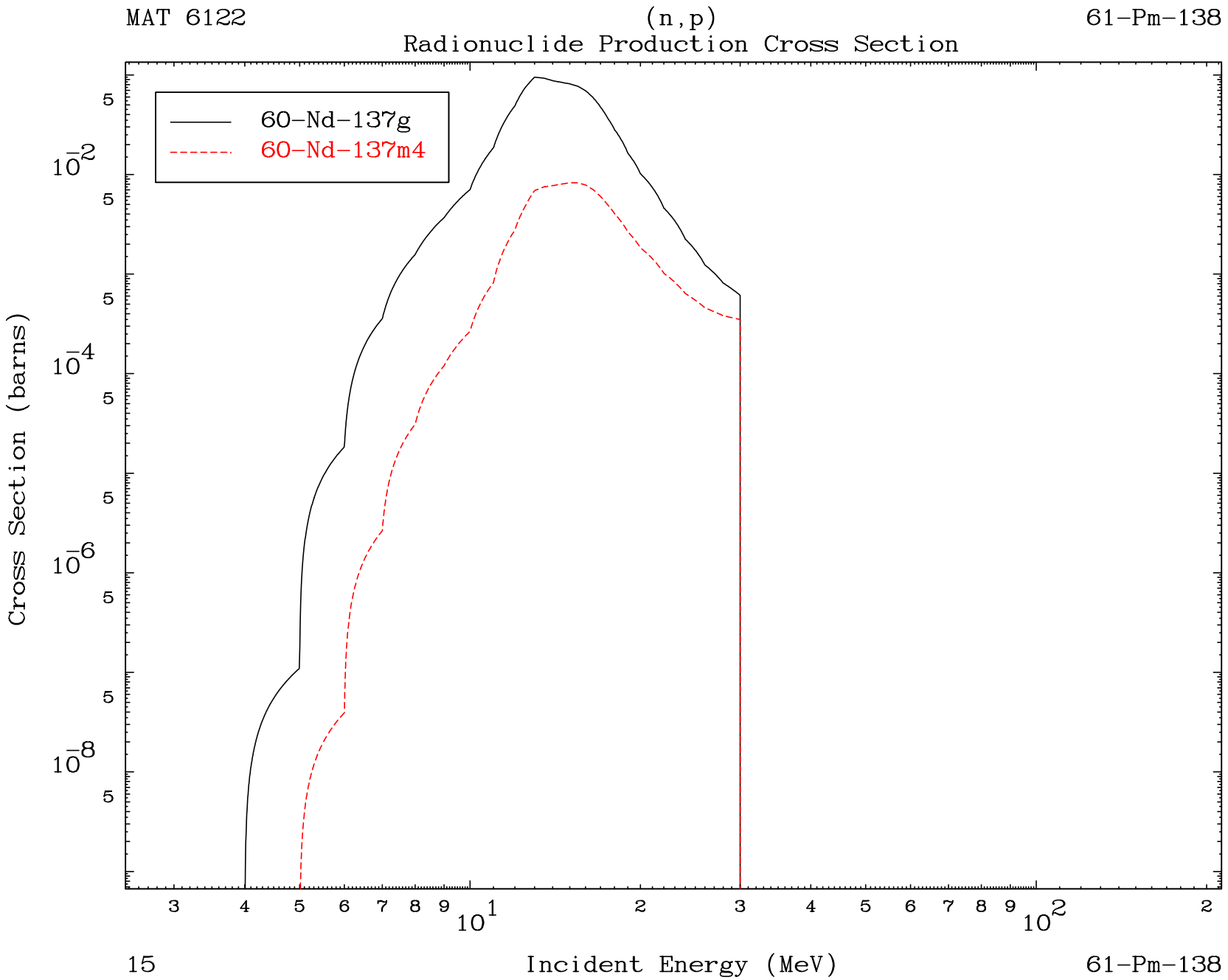

MAT 6122
(γ,He3) Levels
61-Pm-138
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
61-Pm-138

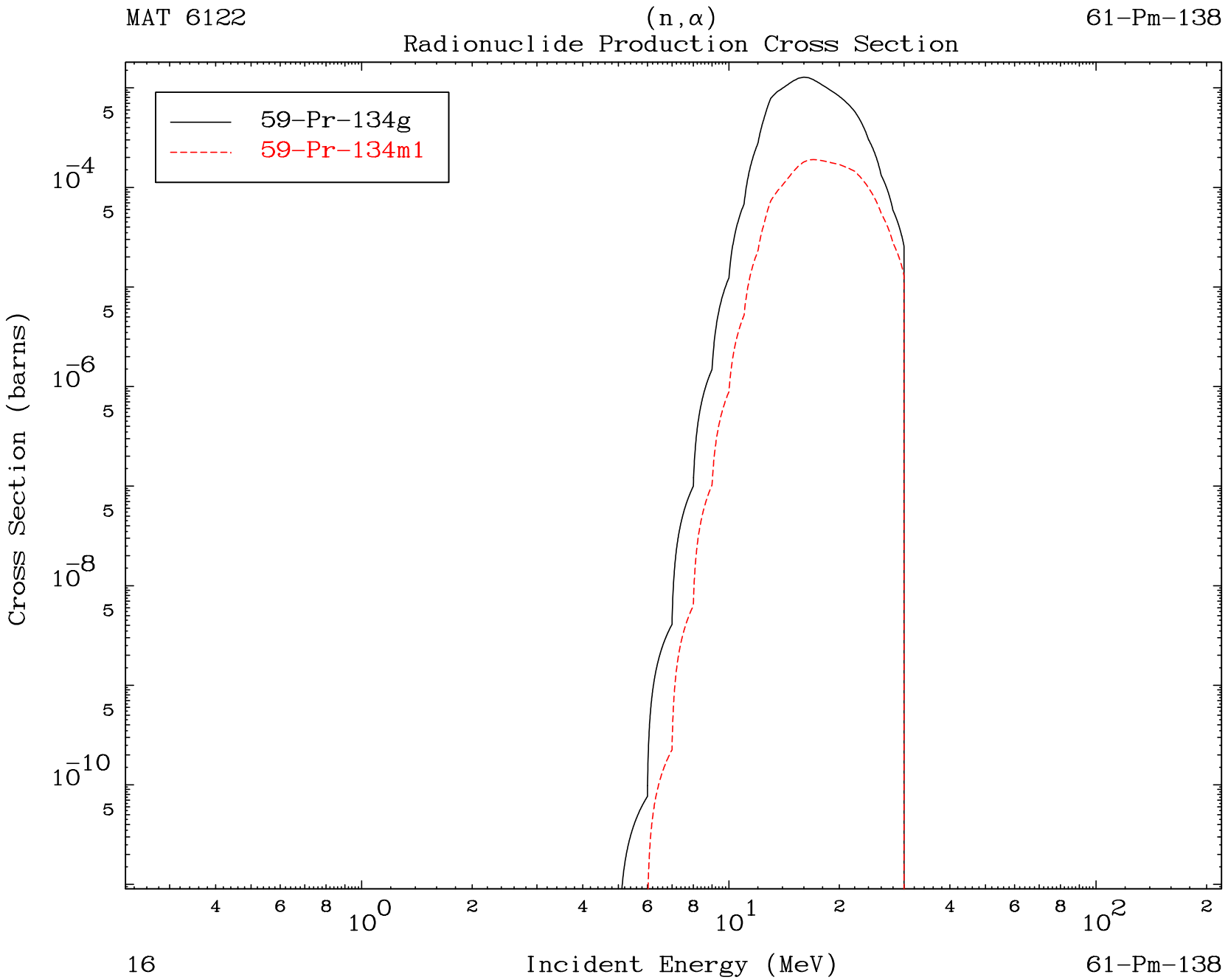

MAT 6122
(γ,α) Levels
61-Pm-138
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
11
61-Pm-138

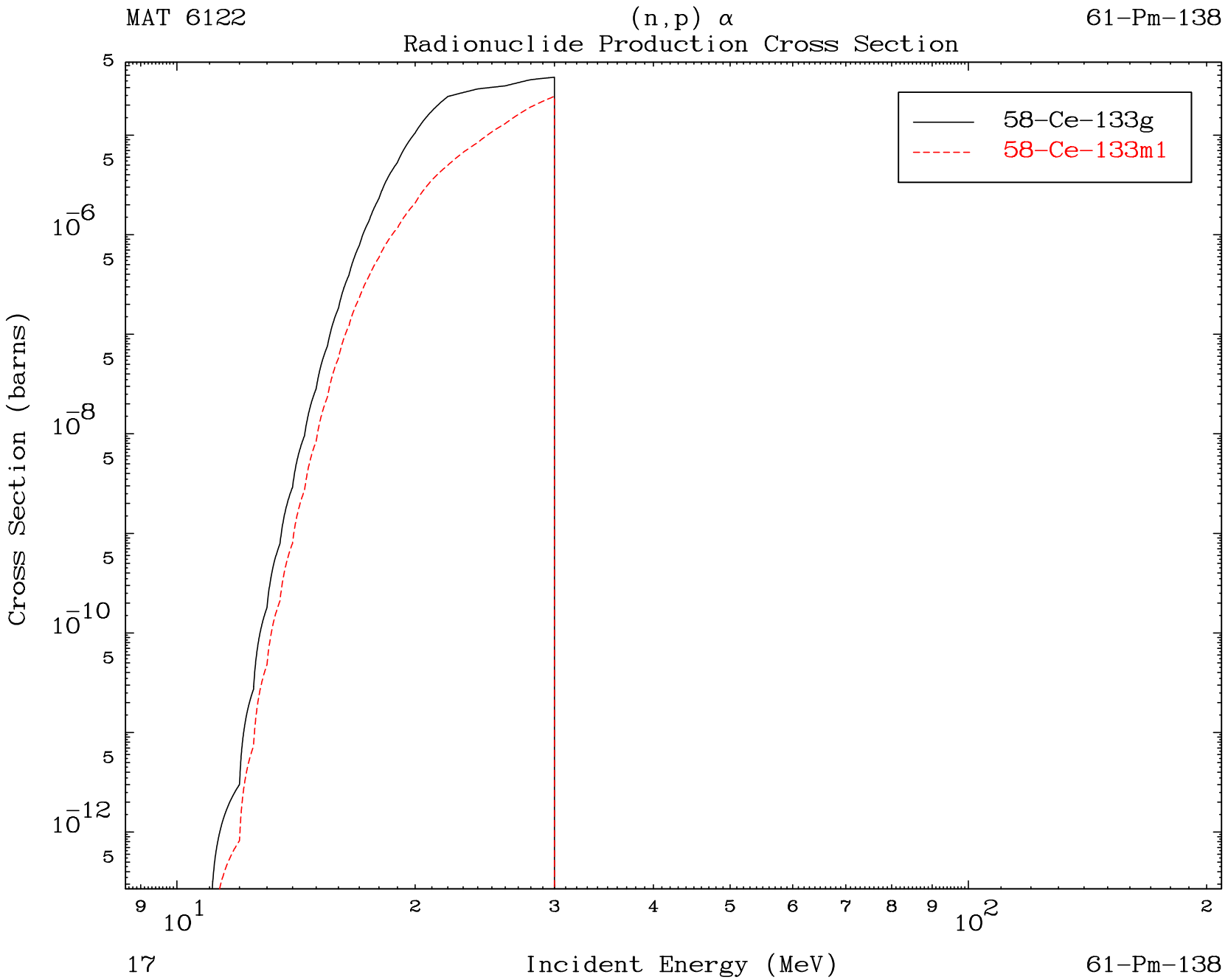

MAT 6122
(n,2n)
61-Pm-138
Radionuclide Production Cross Section
61-Pm-136g
61-Pm-136m1
Cross Section (barns)
Incident Energy (MeV)
12
61-Pm-138

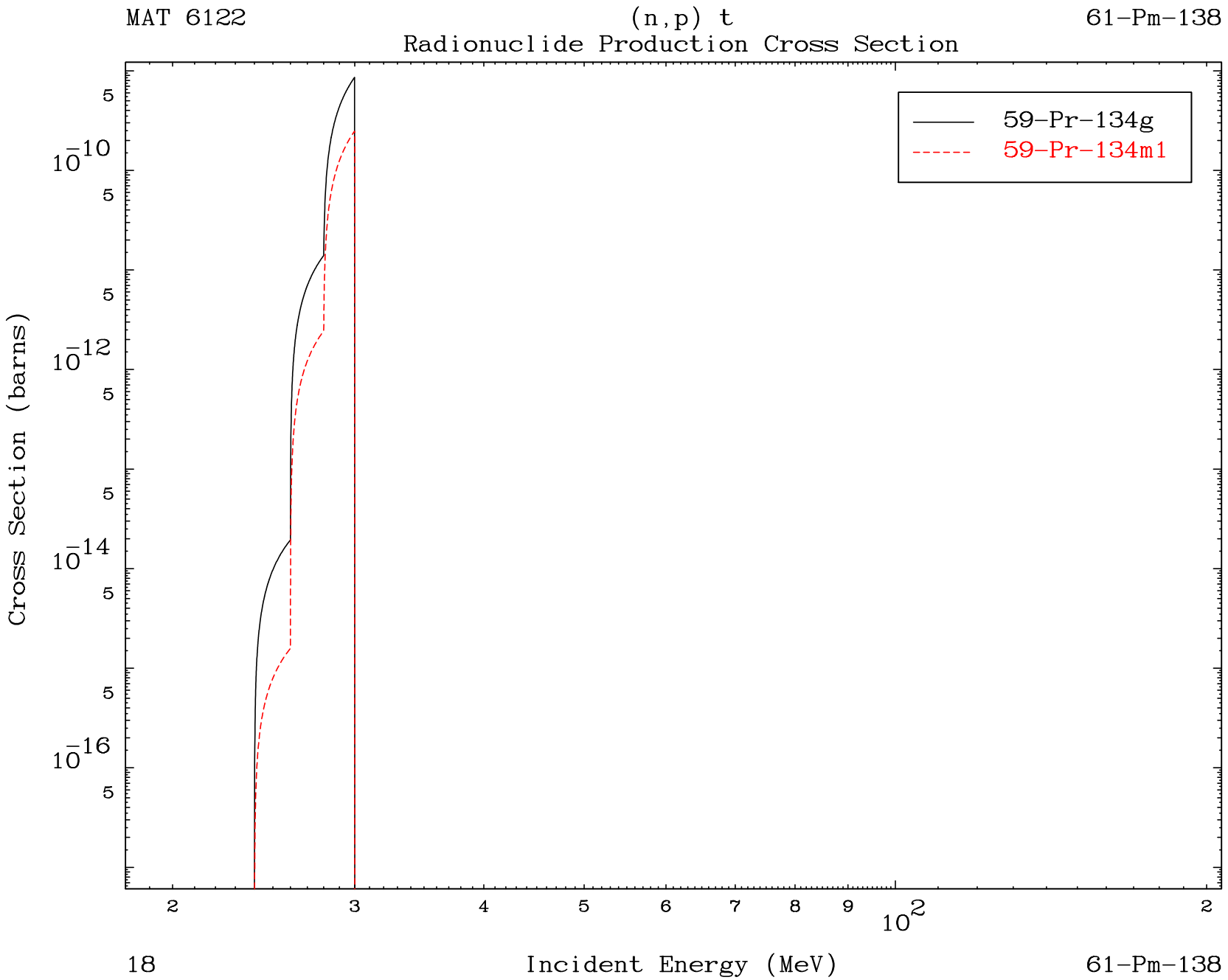

MAT 6122
(n,n') α
61-Pm-138
Radionuclide Production Cross Section
59-Pr-133g
59-Pr-133m3
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
13
61-Pm-138


MAT 6122
(n,n') 2α
61-Pm-138
Radionuclide Production Cross Section
57-La-129g
57-La-129m2
Cross Section (barns)
Incident Energy (MeV)
14
61-Pm-138


MAT 6122
(n,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 6122
(n,α)
61-Pm-138
Radionuclide Production Cross Section
59-Pr-134g
59-Pr-134m1
Cross Section (barns)
Incident Energy (MeV)
16
61-Pm-138


MAT 6122
(n,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
9
10^1
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
61-Pm-138


MAT 6122
(n,p) t
61-Pm-138
Radionuclide Production Cross Section
59-Pr-134g
59-Pr-134m1
Cross Section (barns)
10-10
10-12
10-14
10-16
5
2
3
4
5
6
7
8
9
102
2
18
Incident Energy (MeV)
61-Pm-138