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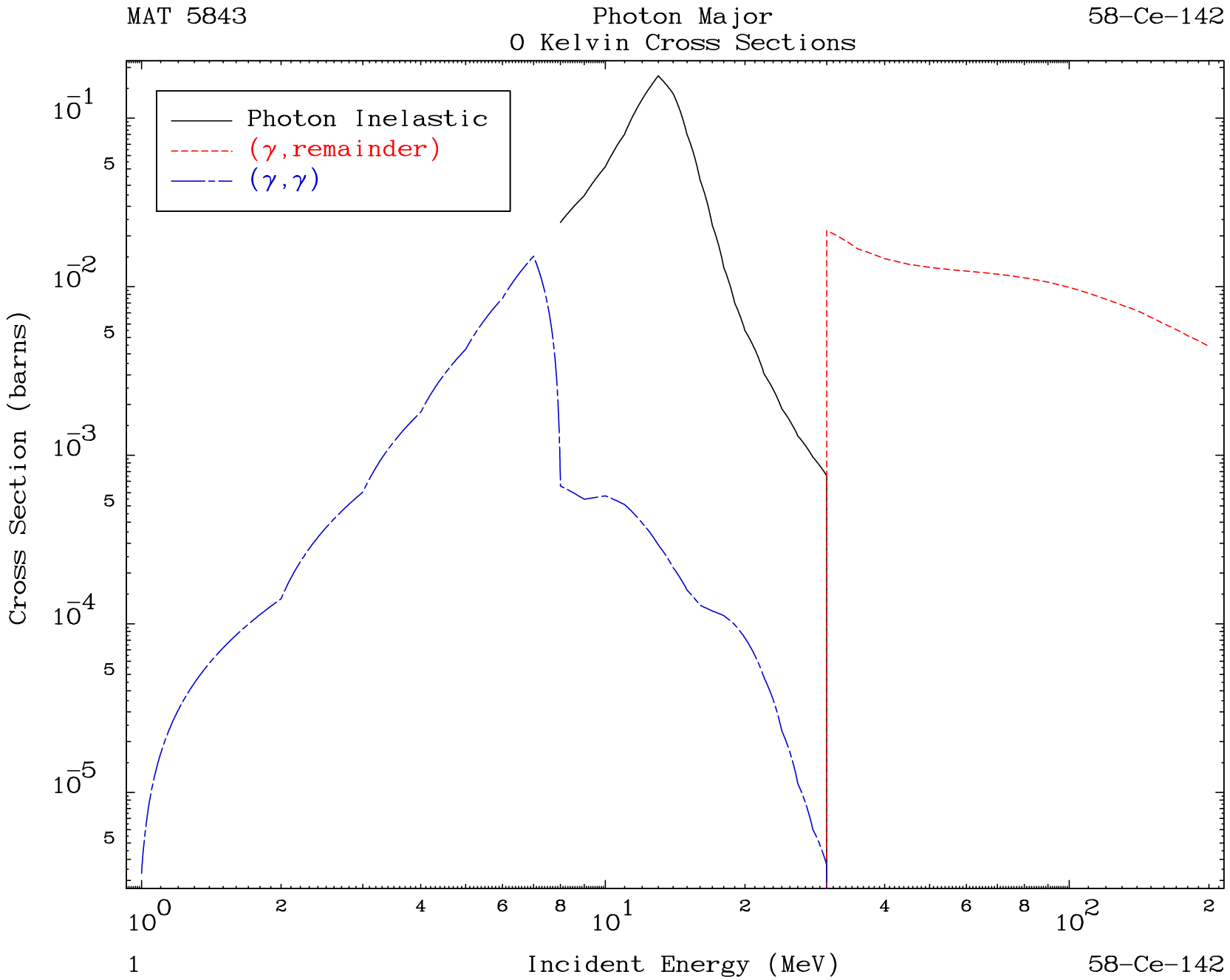
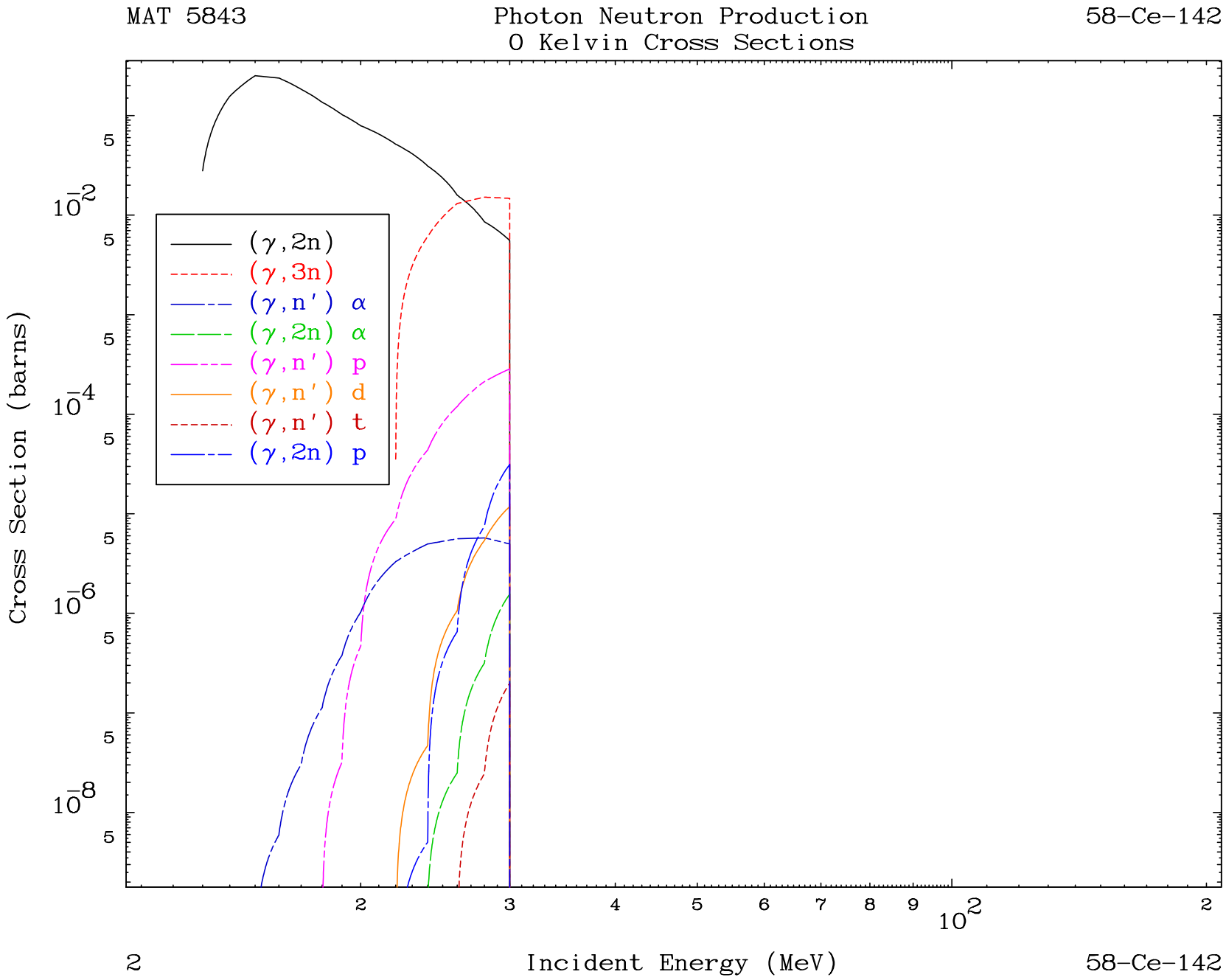
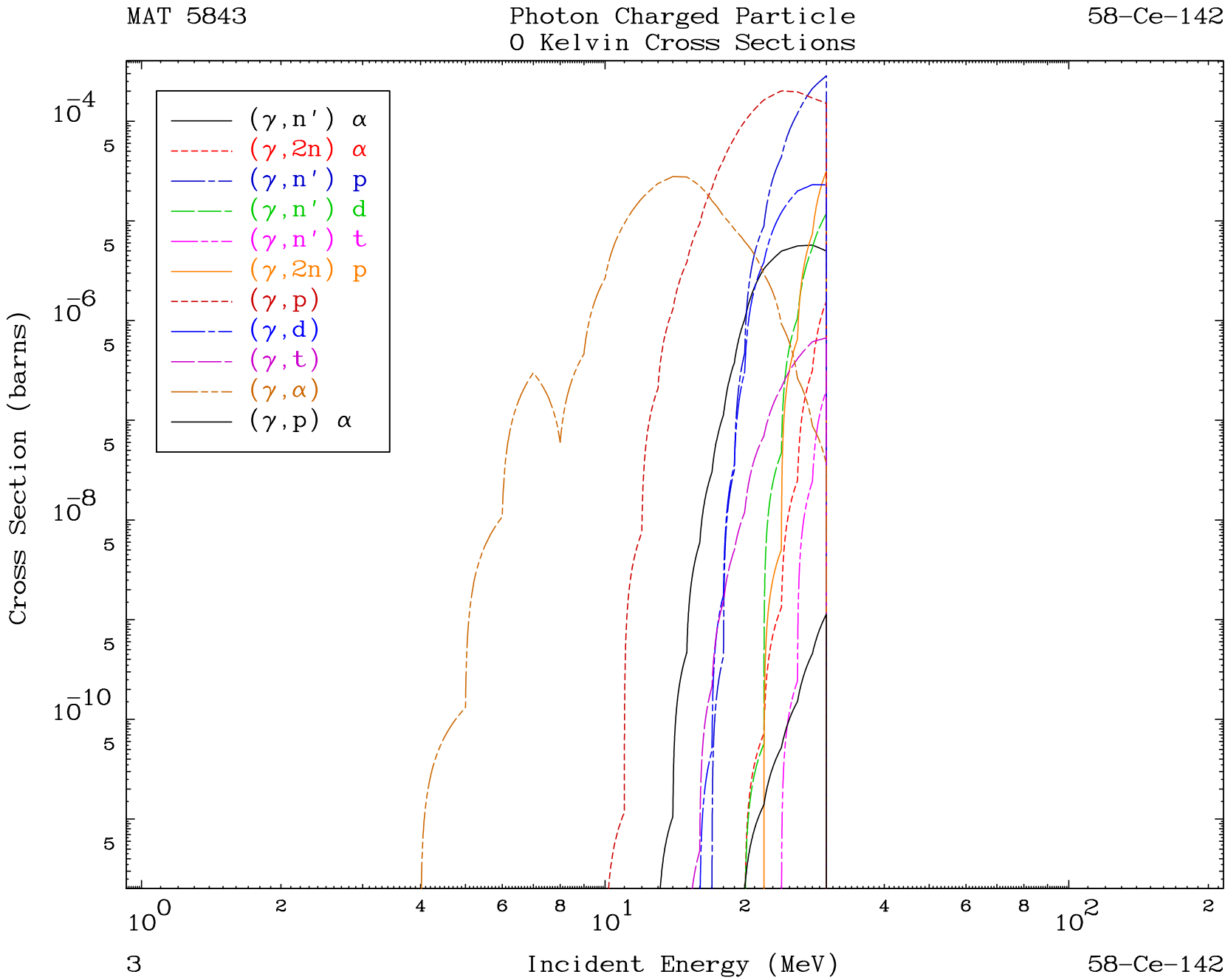
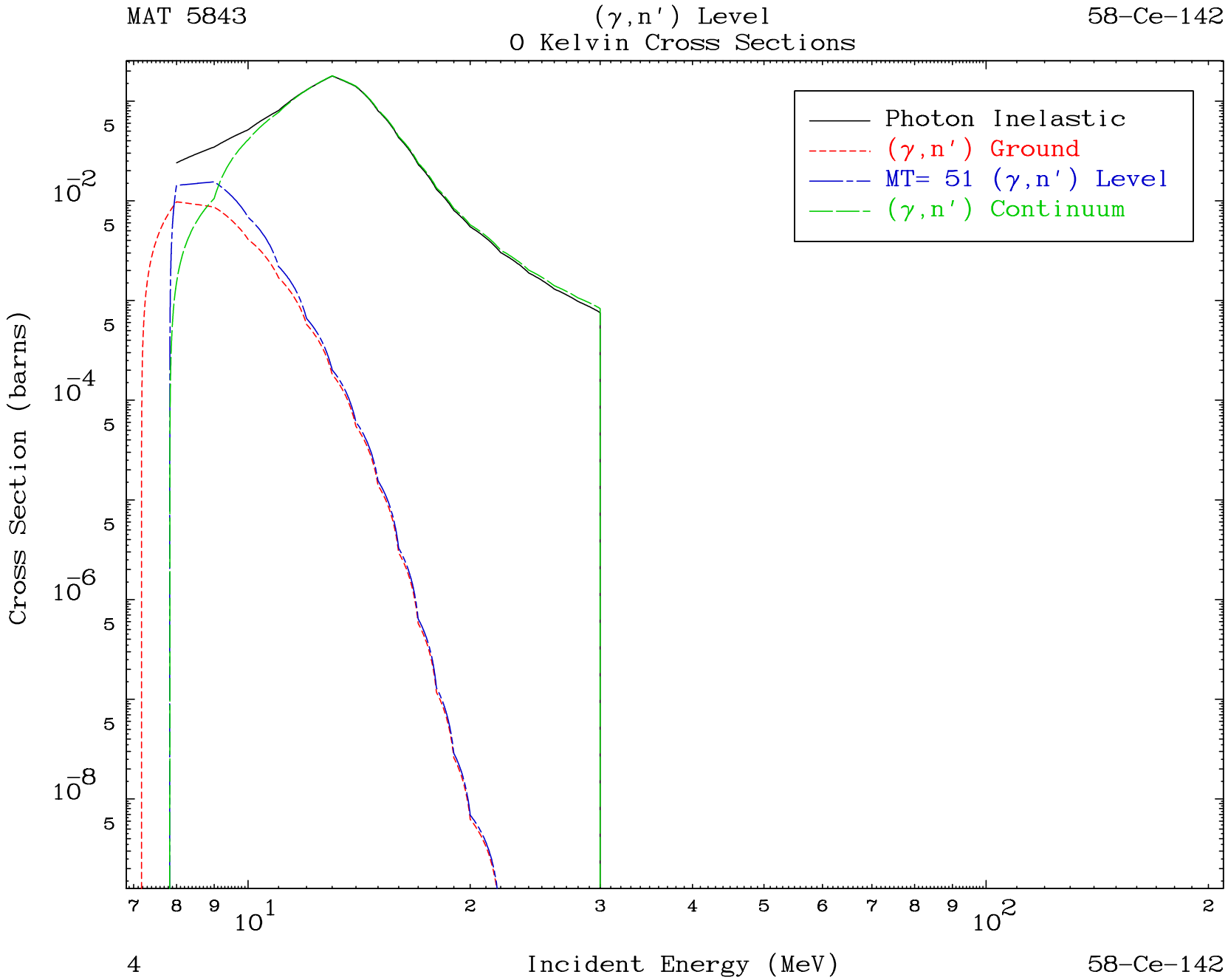
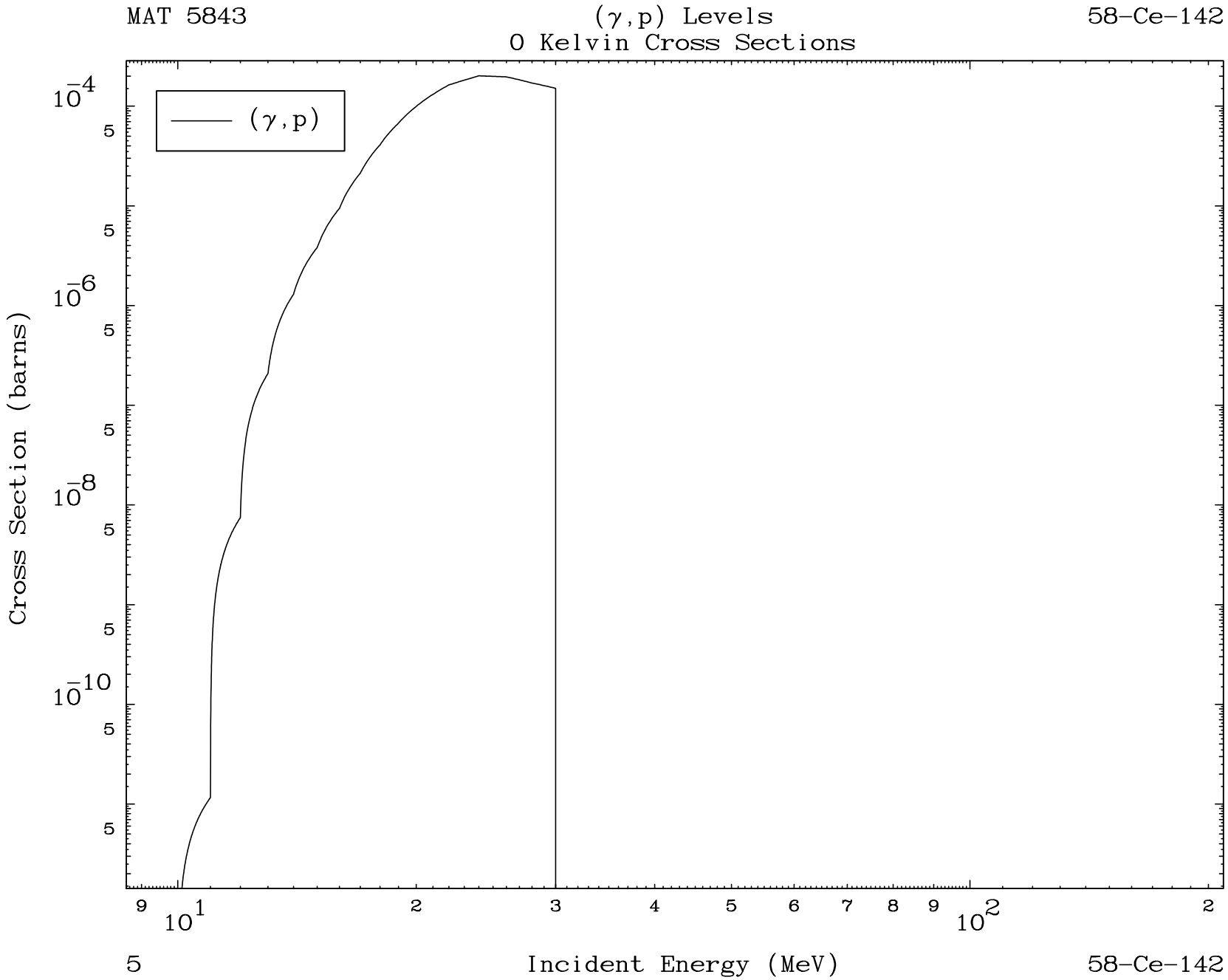
Press Mouse Button to Start

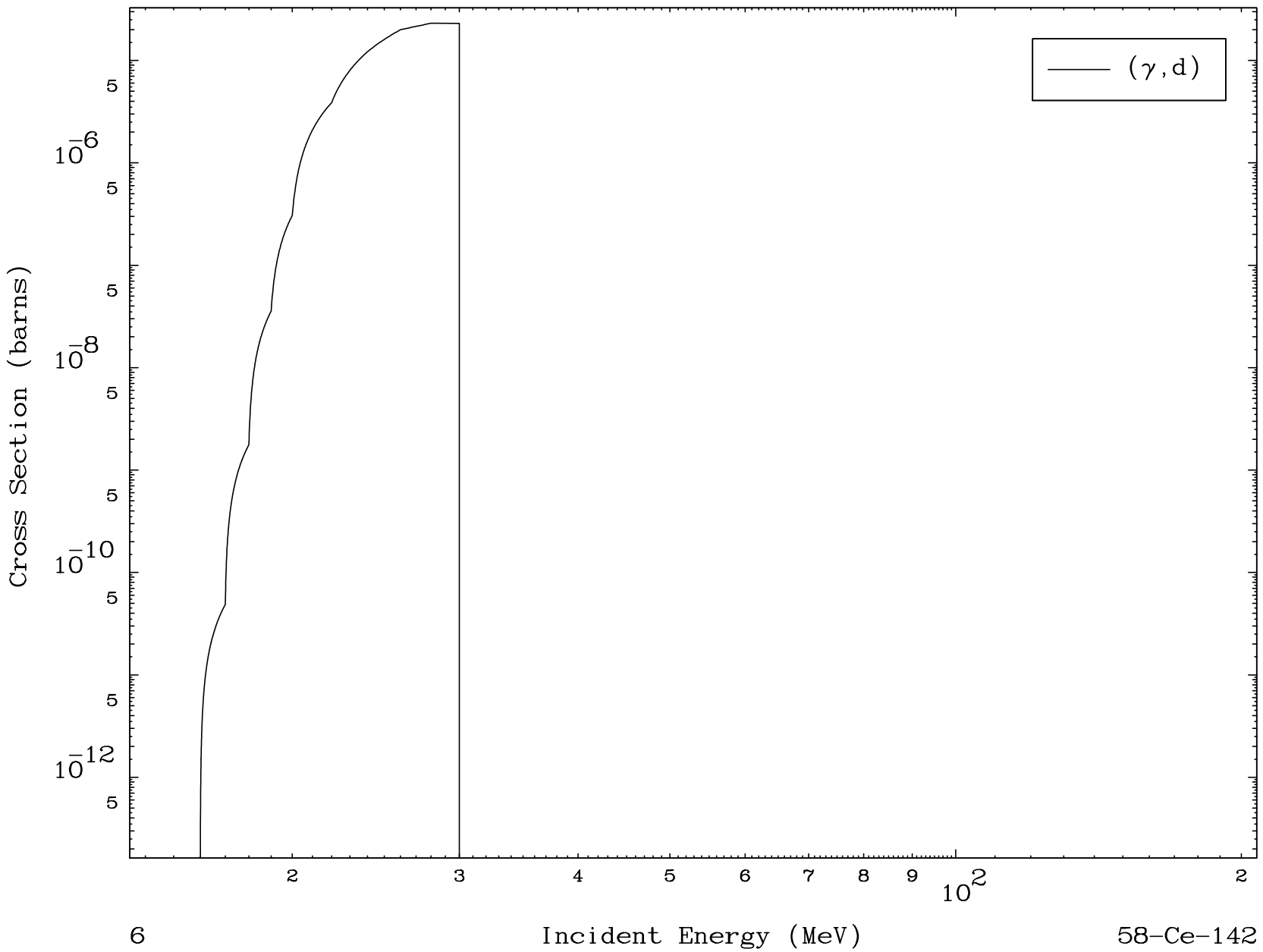

MAT 5843
Photon Major
58-Ce-142
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-142

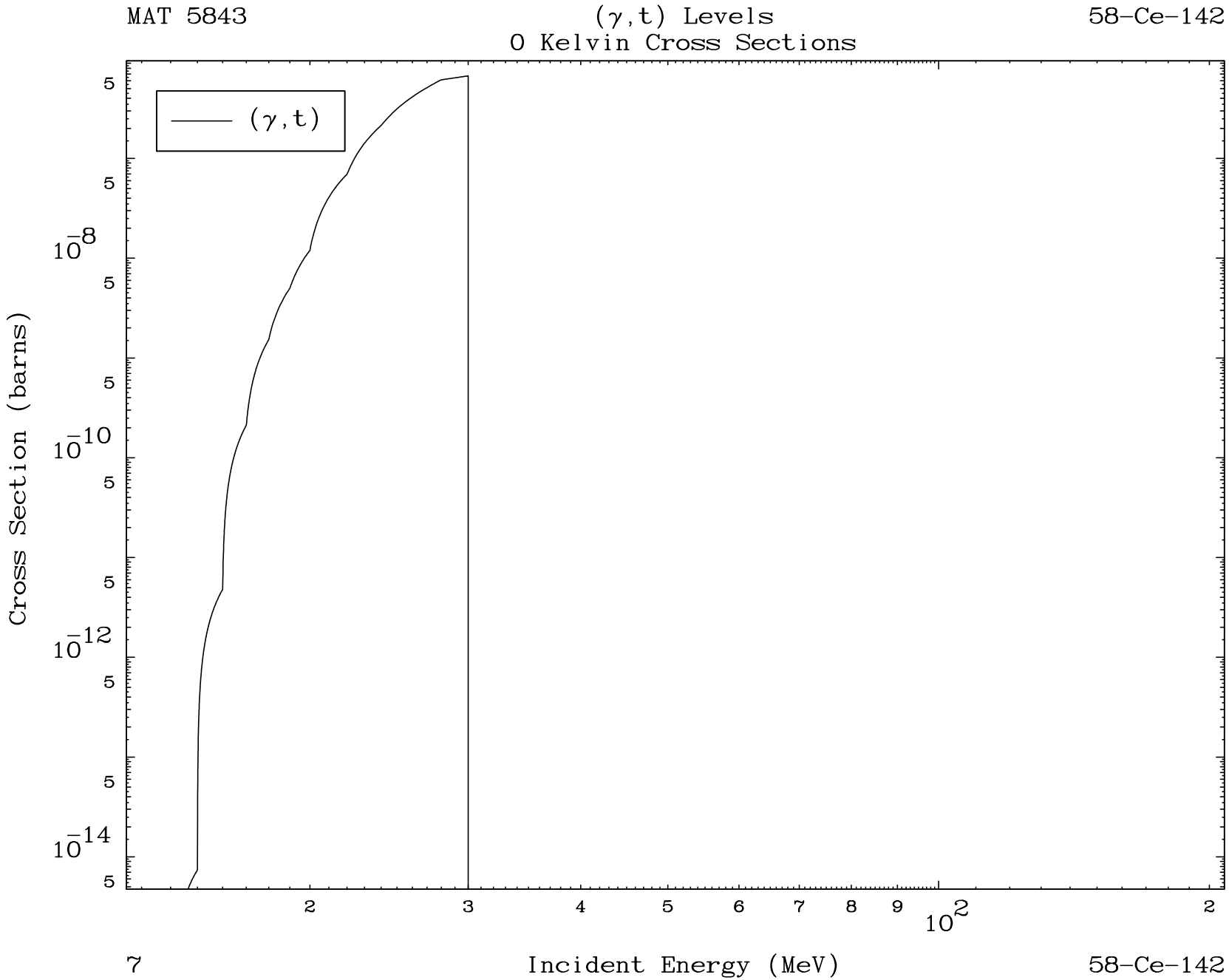

MAT 5843
Photon Neutron Production
0 Kelvin Cross Sections
58-Ce-142
Cross Section (barns)
Incident Energy (MeV)
58-Ce-142
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p

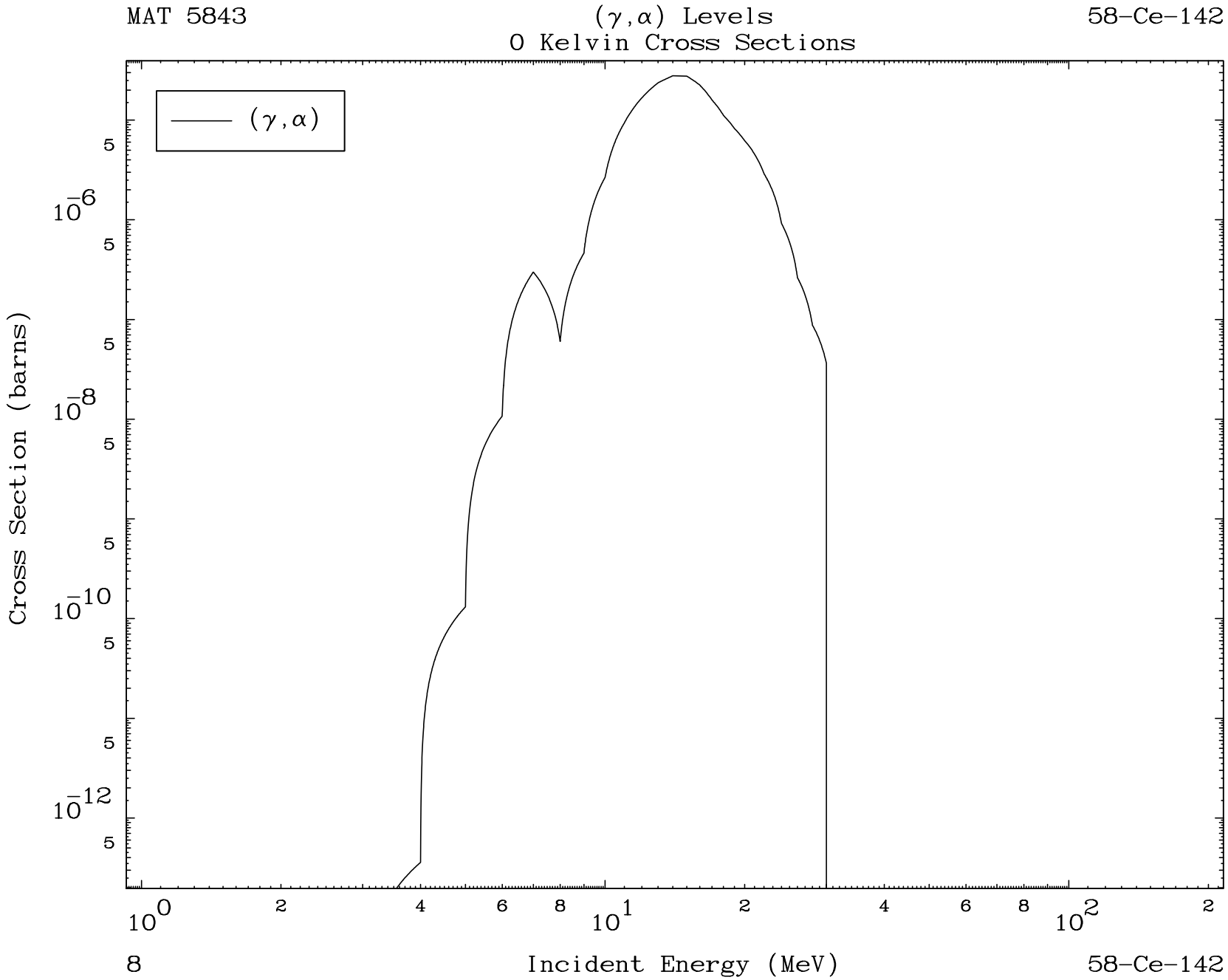

MAT 5843
Photon Charged Particle
0 Kelvin Cross Sections
58-Ce-142
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)
(γ,p) α
Cross Section (barns)
Incident Energy (MeV)
3
58-Ce-142

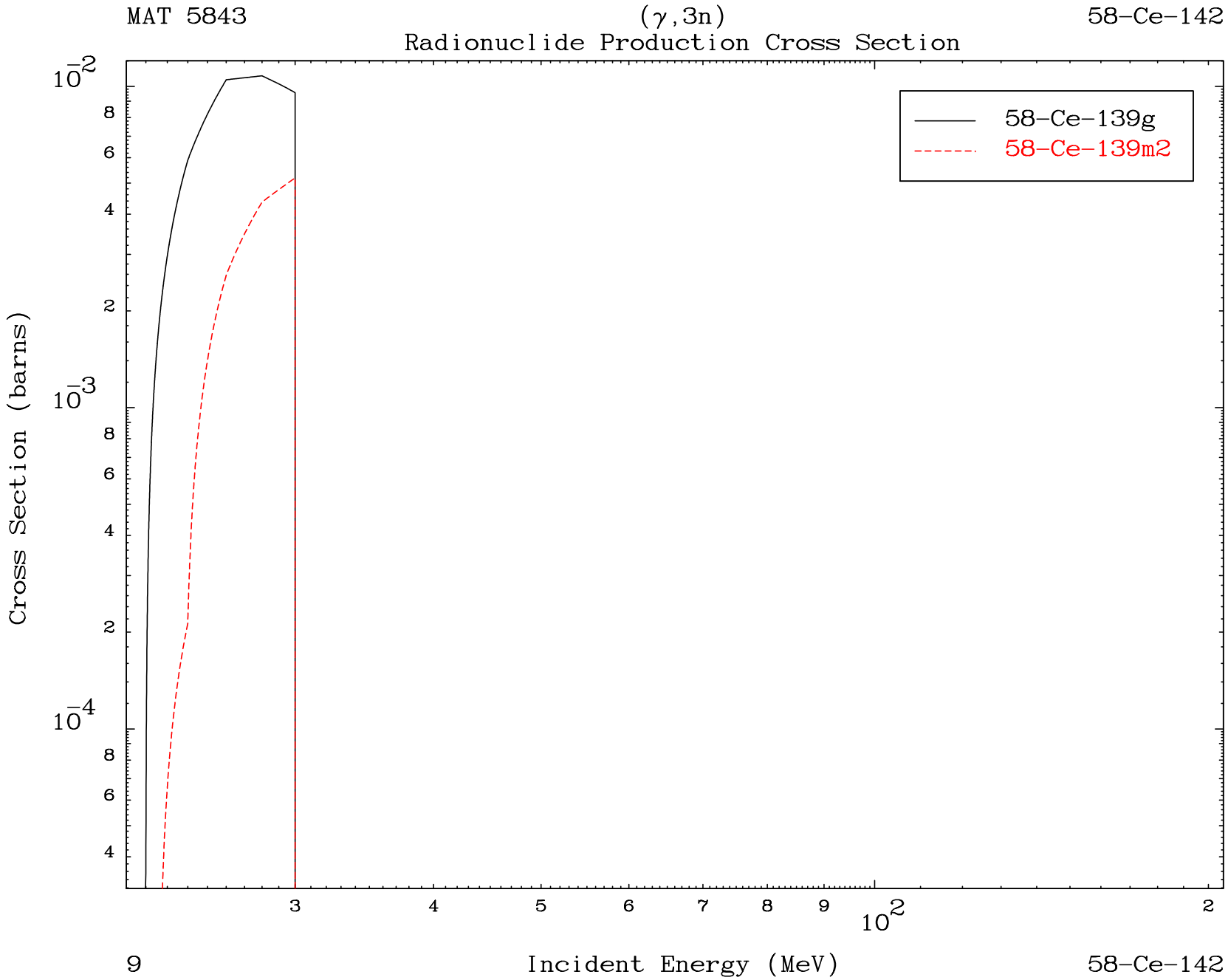

MAT 5843
(γ,n') Level
58-Ce-142
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
58-Ce-142
4

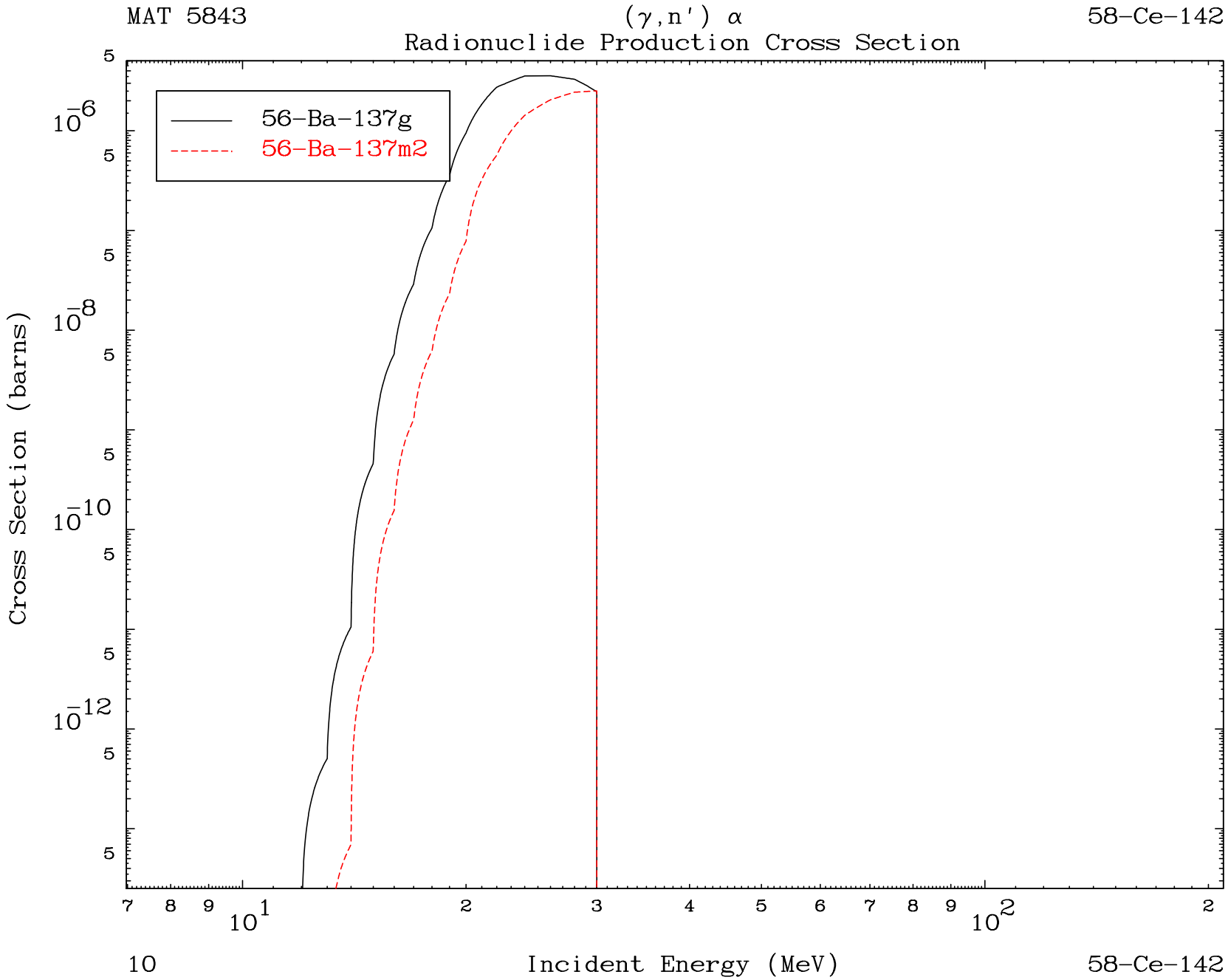

MAT 5843
(γ,p) Levels
58-Ce-142
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
58-Ce-142

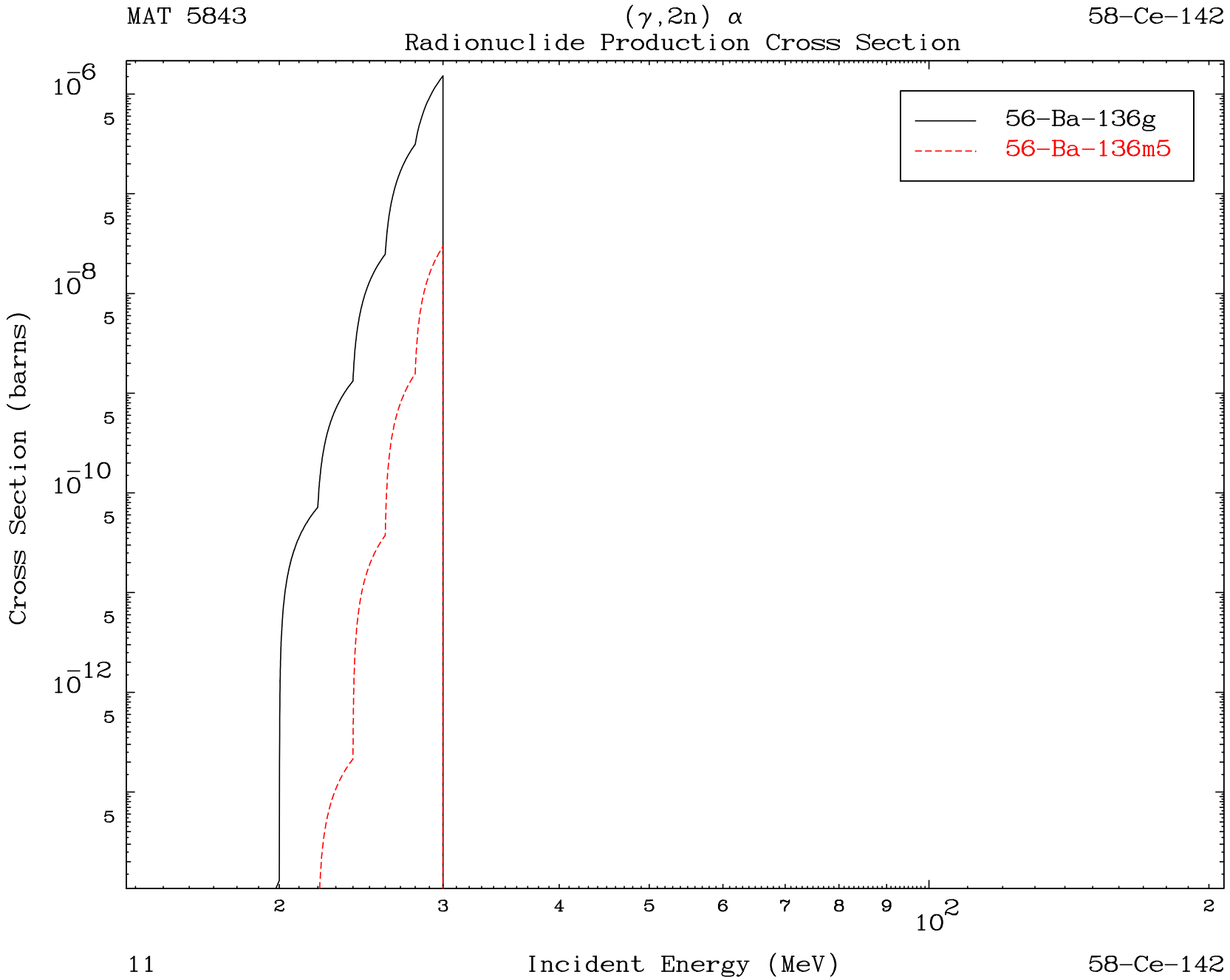

0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)


MAT 5843
(γ,t) Levels
58-Ce-142
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
7
Incident Energy (MeV)
58-Ce-142


MAT 5843
(γ,α) Levels
58-Ce-142
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10⁻6
10⁻8
10⁻10
10⁻12
10⁰
10¹
10²
Incident Energy (MeV)
58-Ce-142


MAT 5843
(γ,3n)
58-Ce-142
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
Incident Energy (MeV)
9
58-Ce-142


MAT 5843
(γ,n') α
58-Ce-142
Radionuclide Production Cross Section
56-Ba-137g
56-Ba-137m2
Cross Section (barns)
Incident Energy (MeV)
58-Ce-142


MAT 5843
(γ,2n) α
58-Ce-142
Radionuclide Production Cross Section
56-Ba-136g
56-Ba-136m5
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
Incident Energy (MeV)
10^2
11
58-Ce-142