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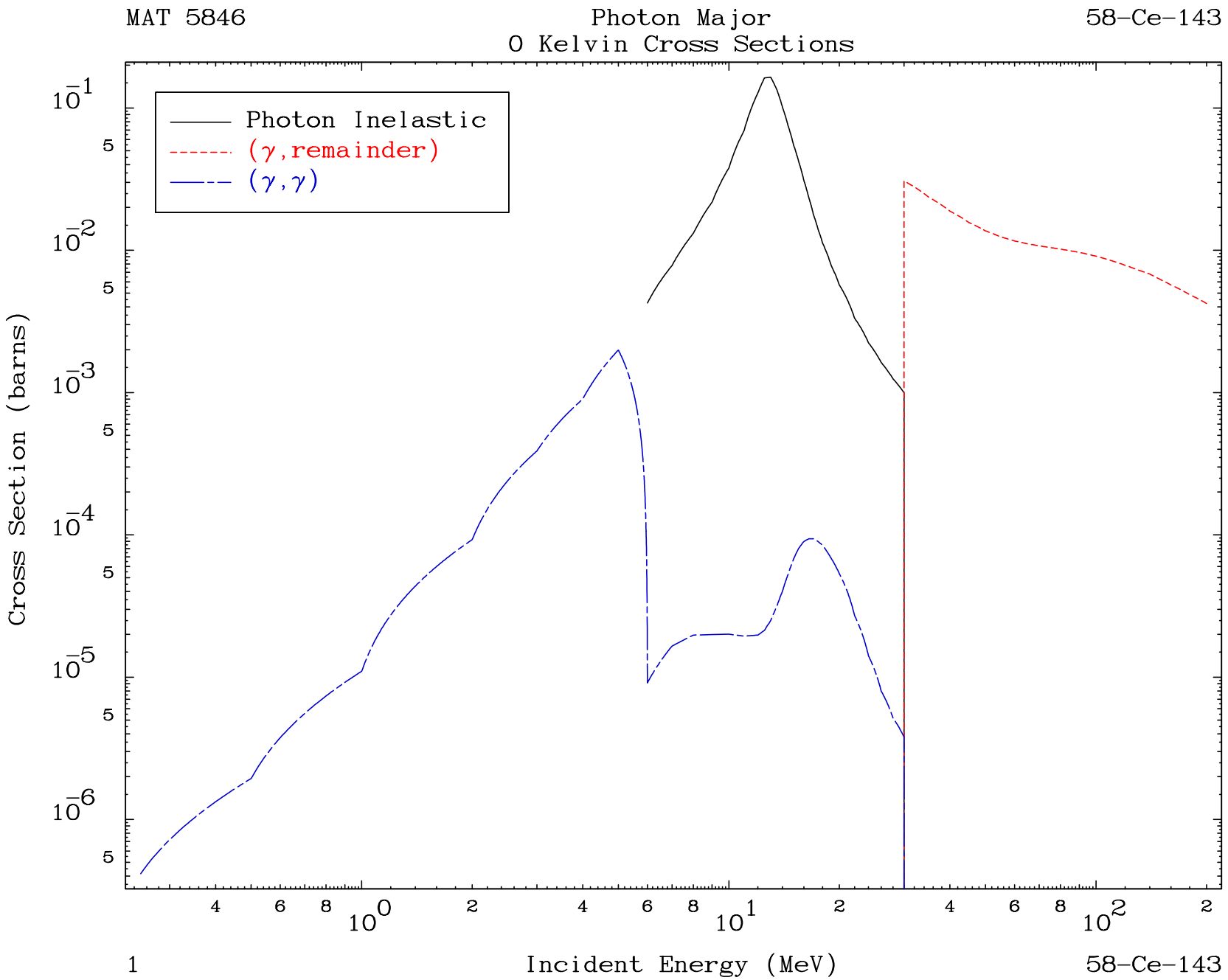
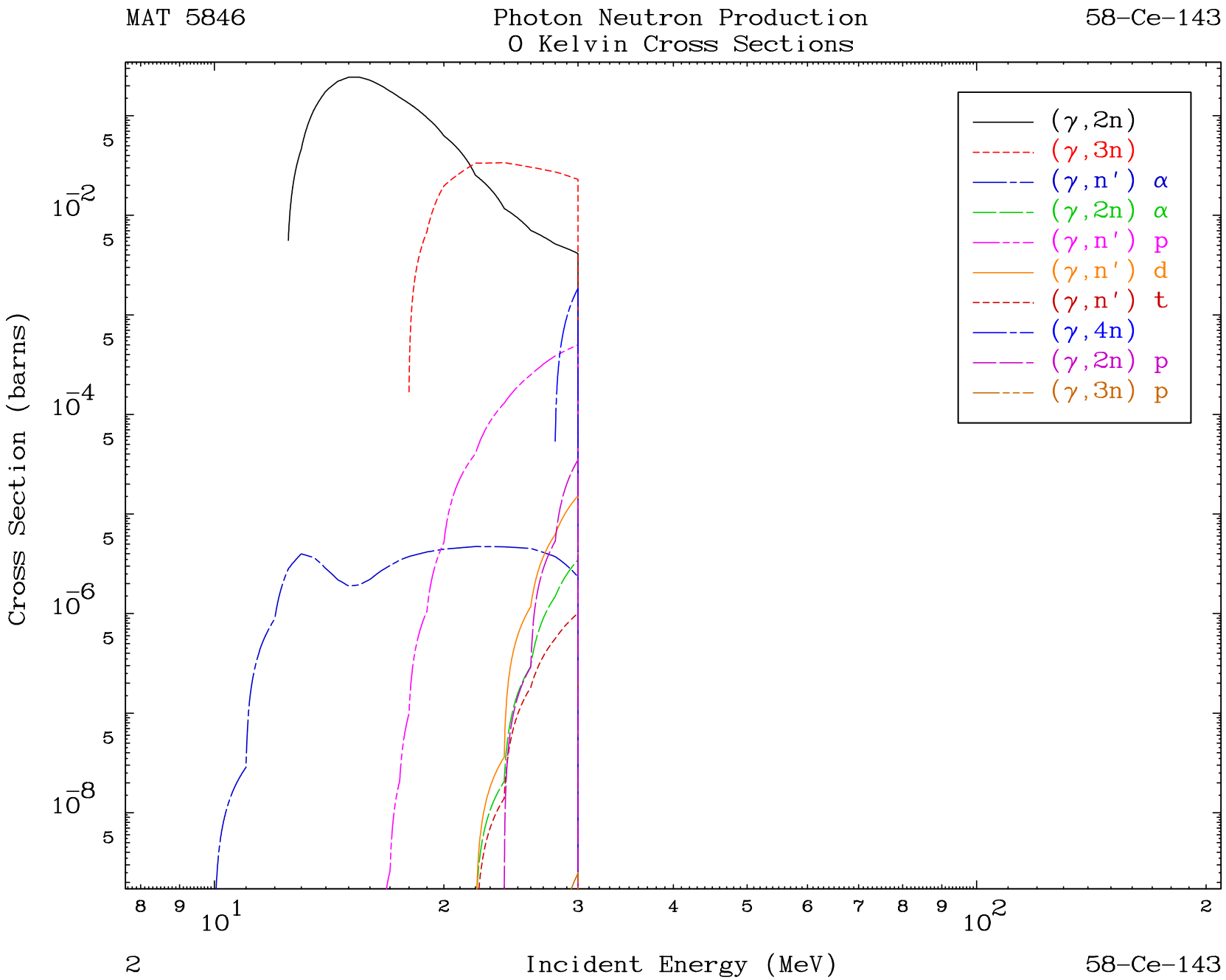
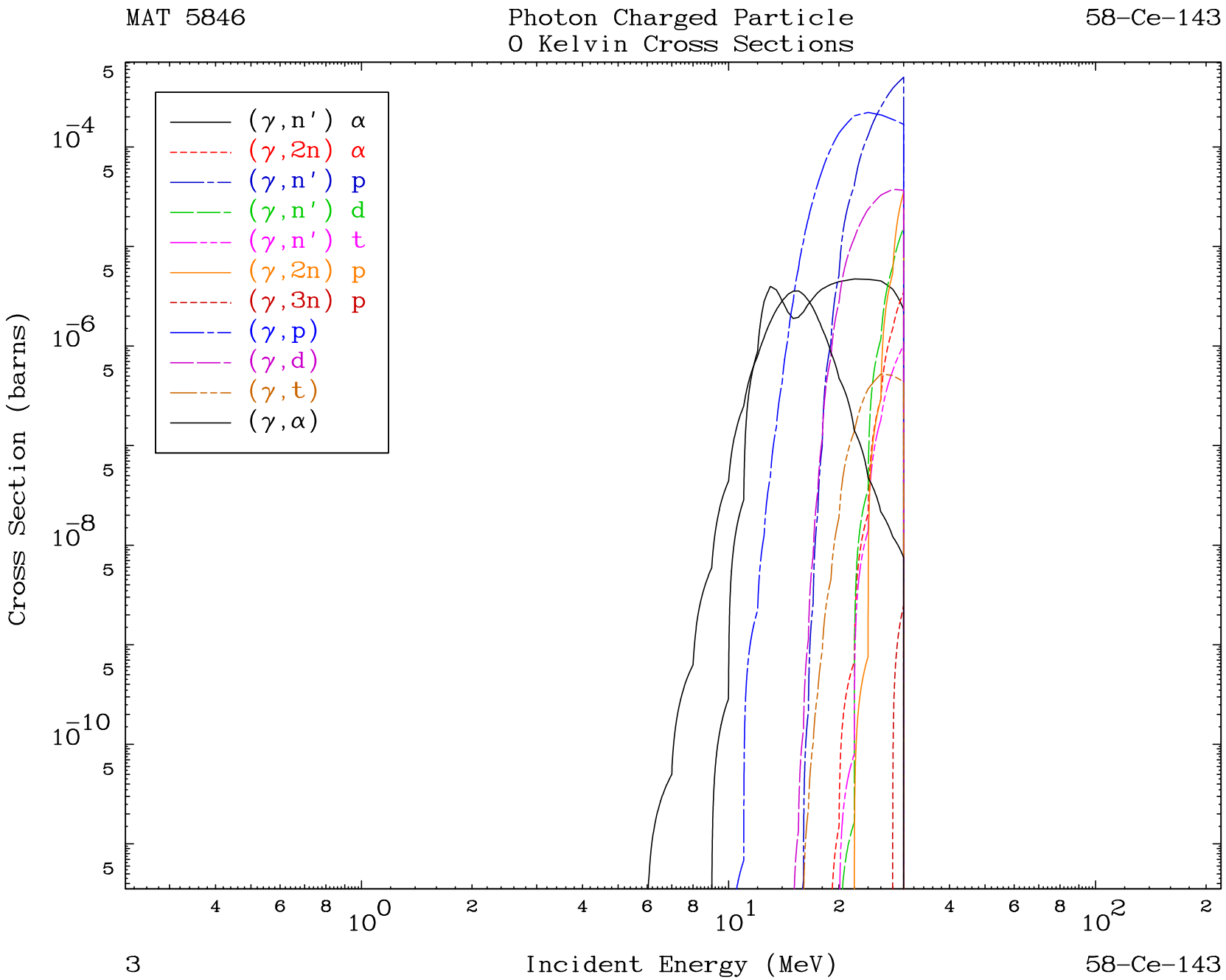
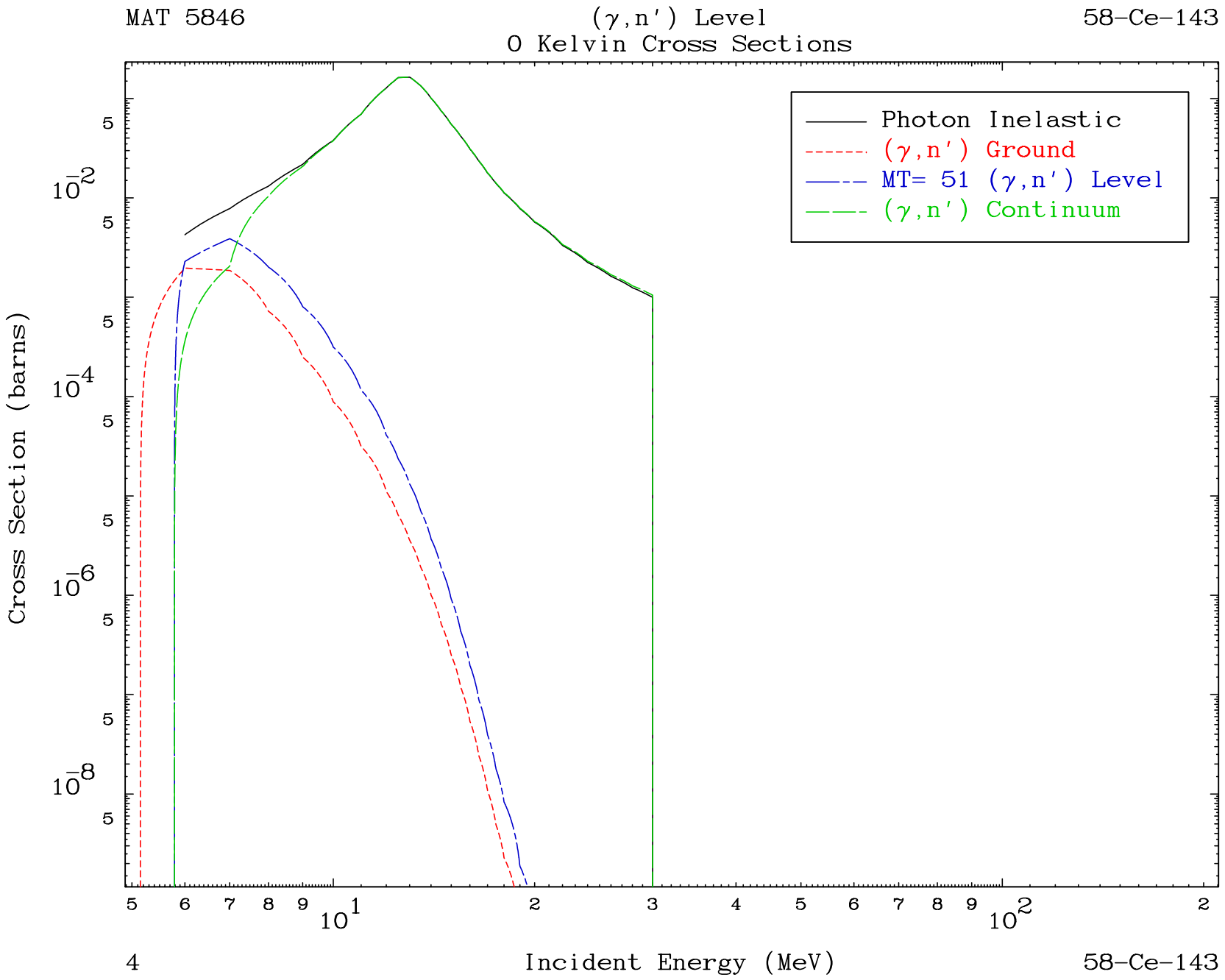
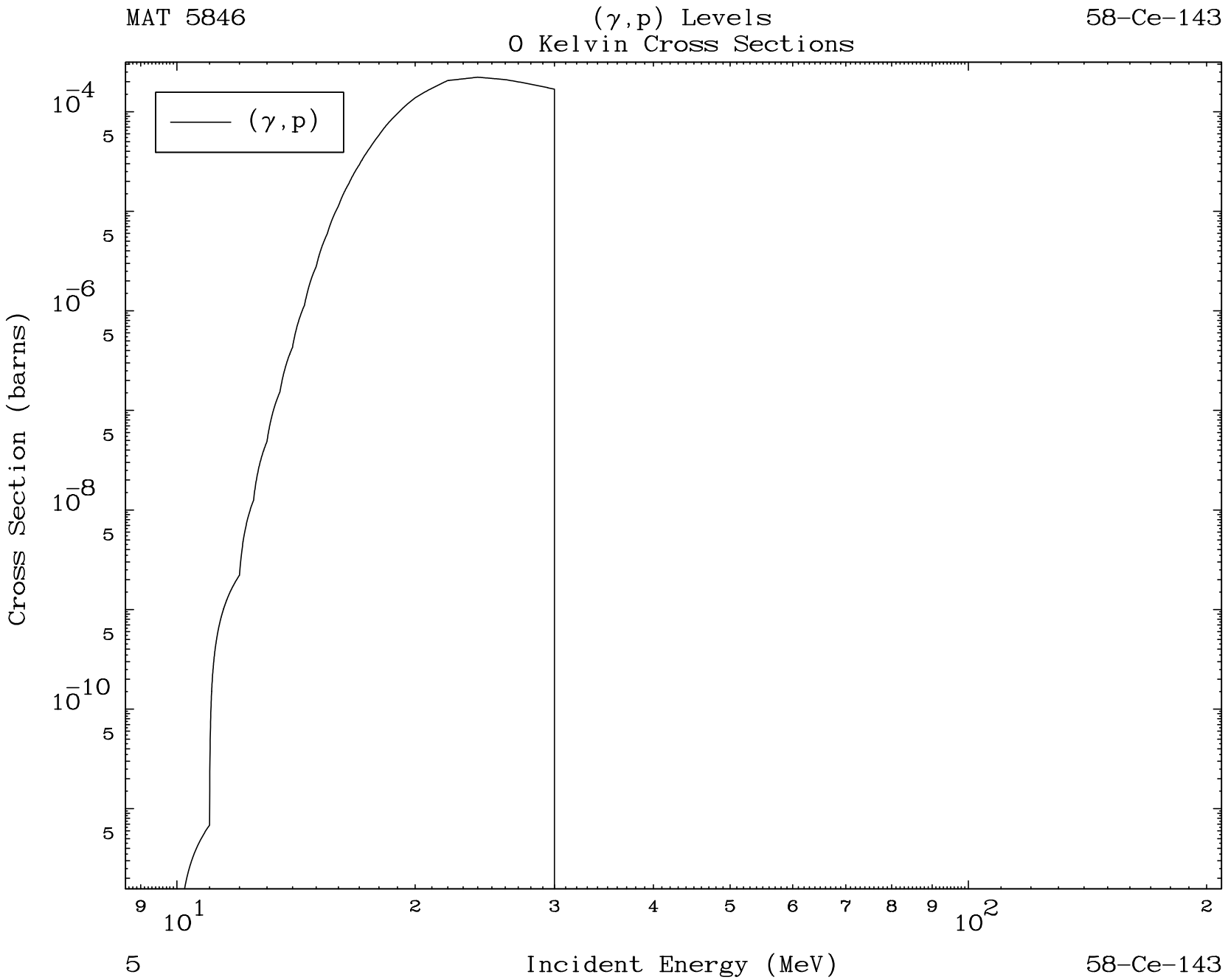
Press Mouse Button to Start

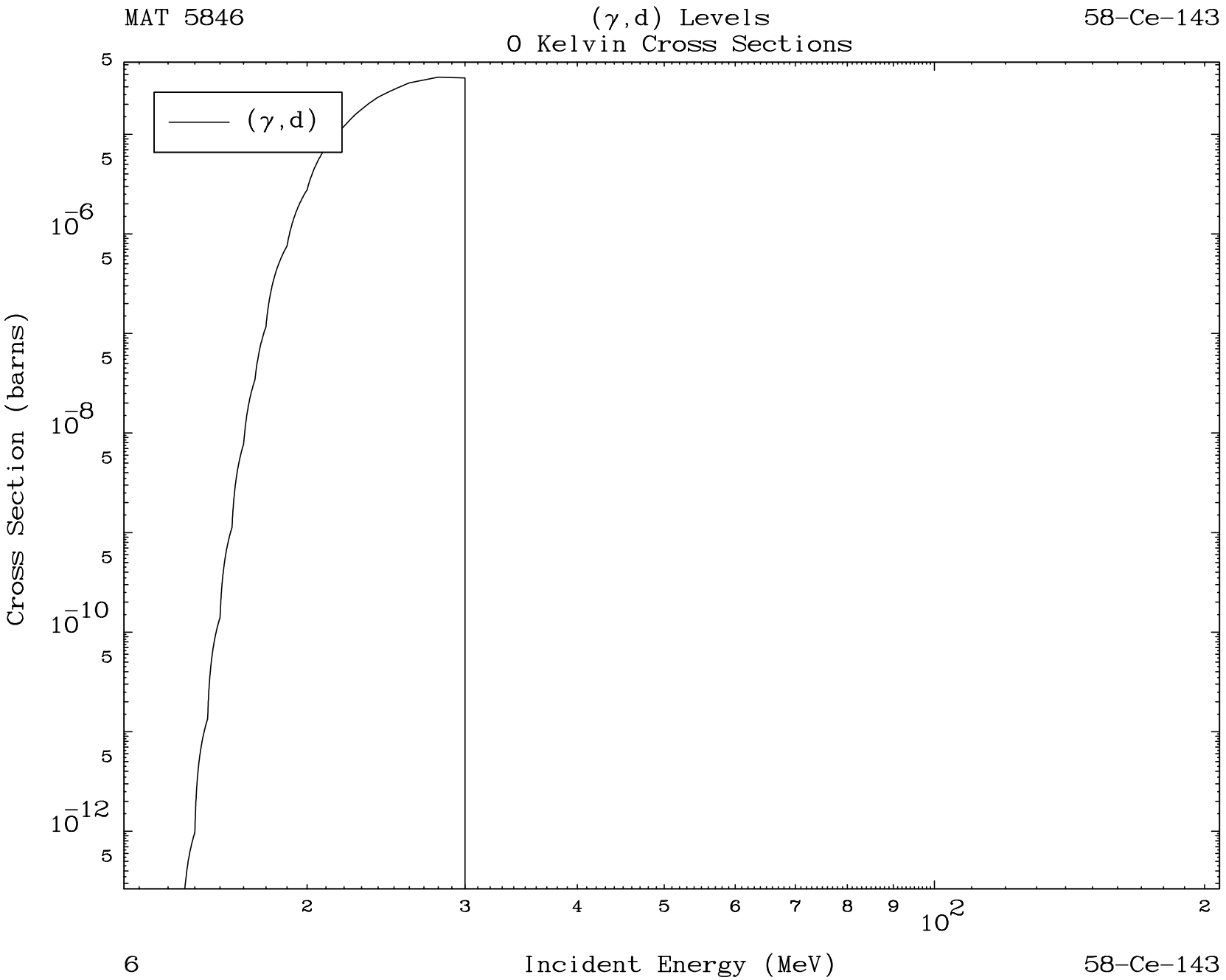

MAT 5846
Photon Major
58-Ce-143
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-143
1

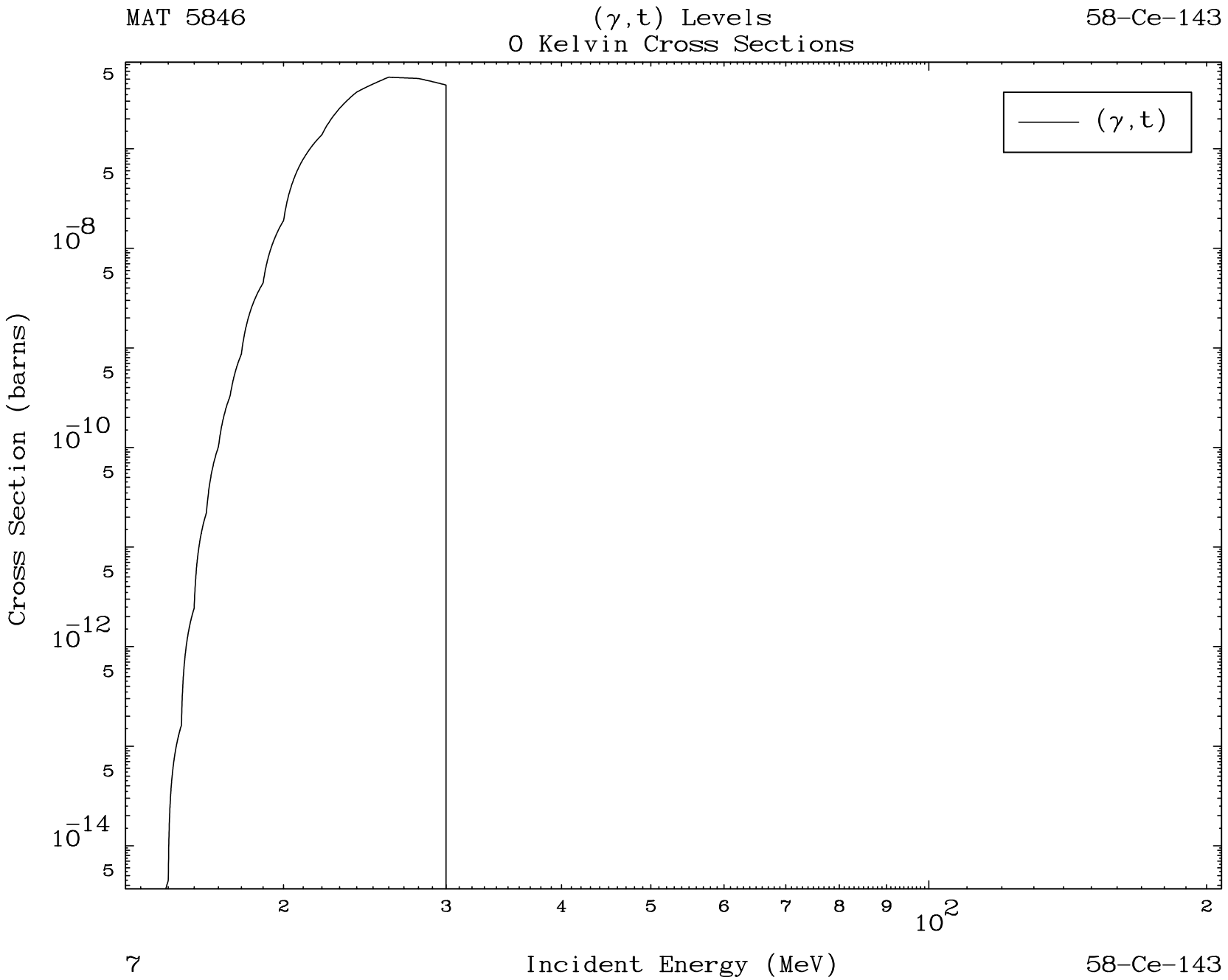

MAT 5846
Photon Neutron Production
0 Kelvin Cross Sections
58-Ce-143
Cross Section (barns)
Incident Energy (MeV)
58-Ce-143
2
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,4n)
(γ,2n) p
(γ,3n) p

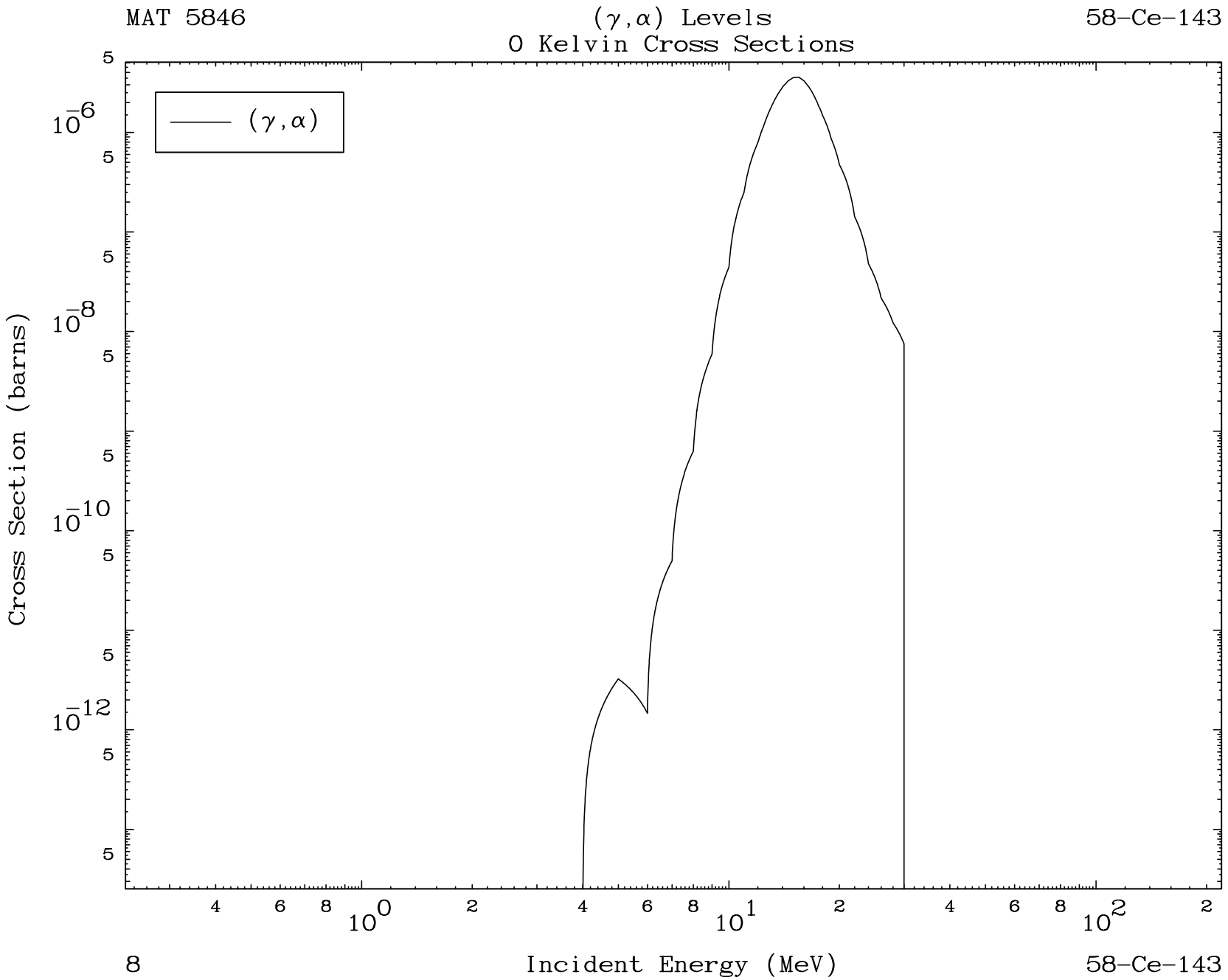

MAT 5846
Photon Charged Particle
0 Kelvin Cross Sections
58-Ce-143
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,3n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)
Cross Section (barns)
Incident Energy (MeV)
3
58-Ce-143

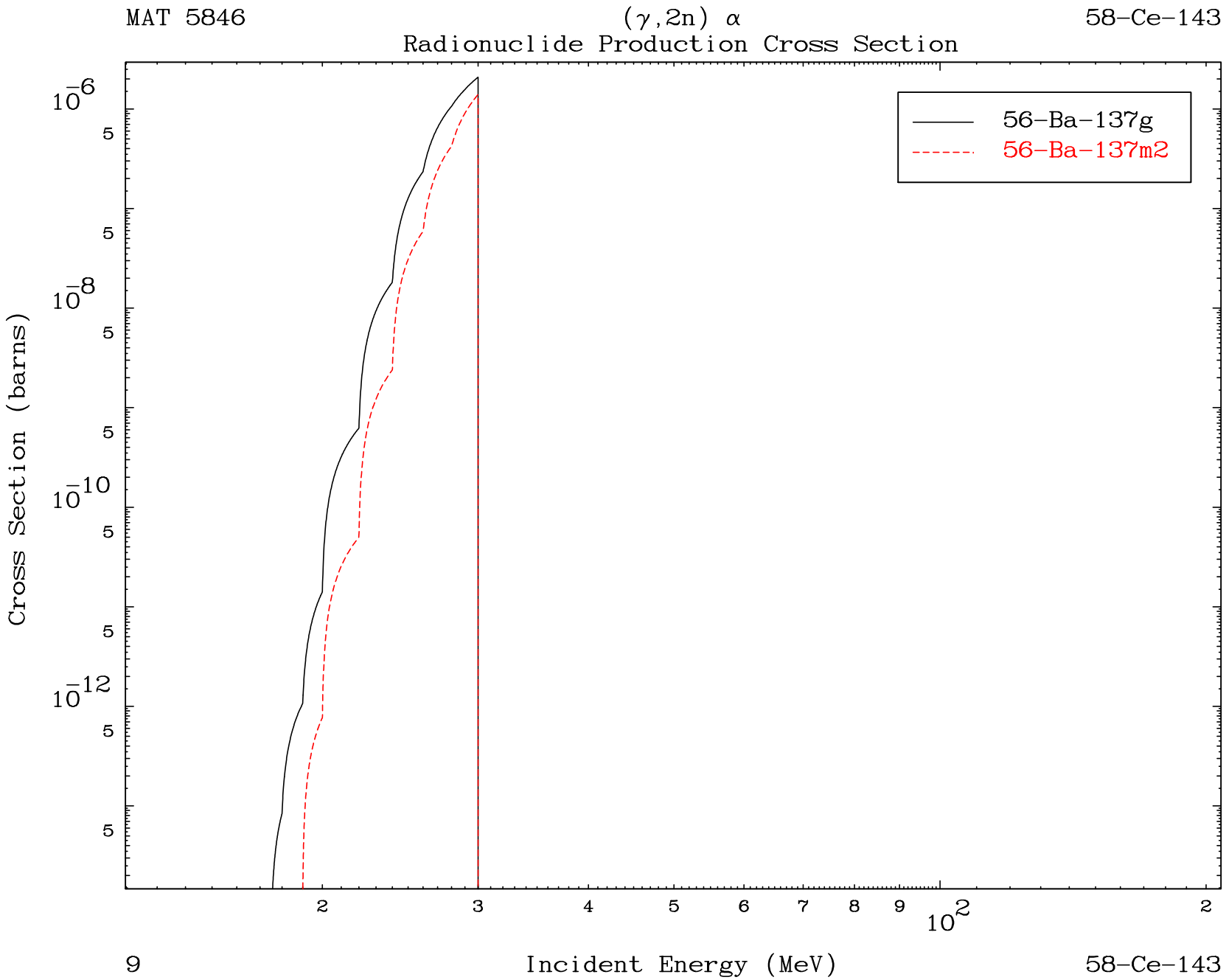

MAT 5846
(γ,n') Level
58-Ce-143
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
4
58-Ce-143

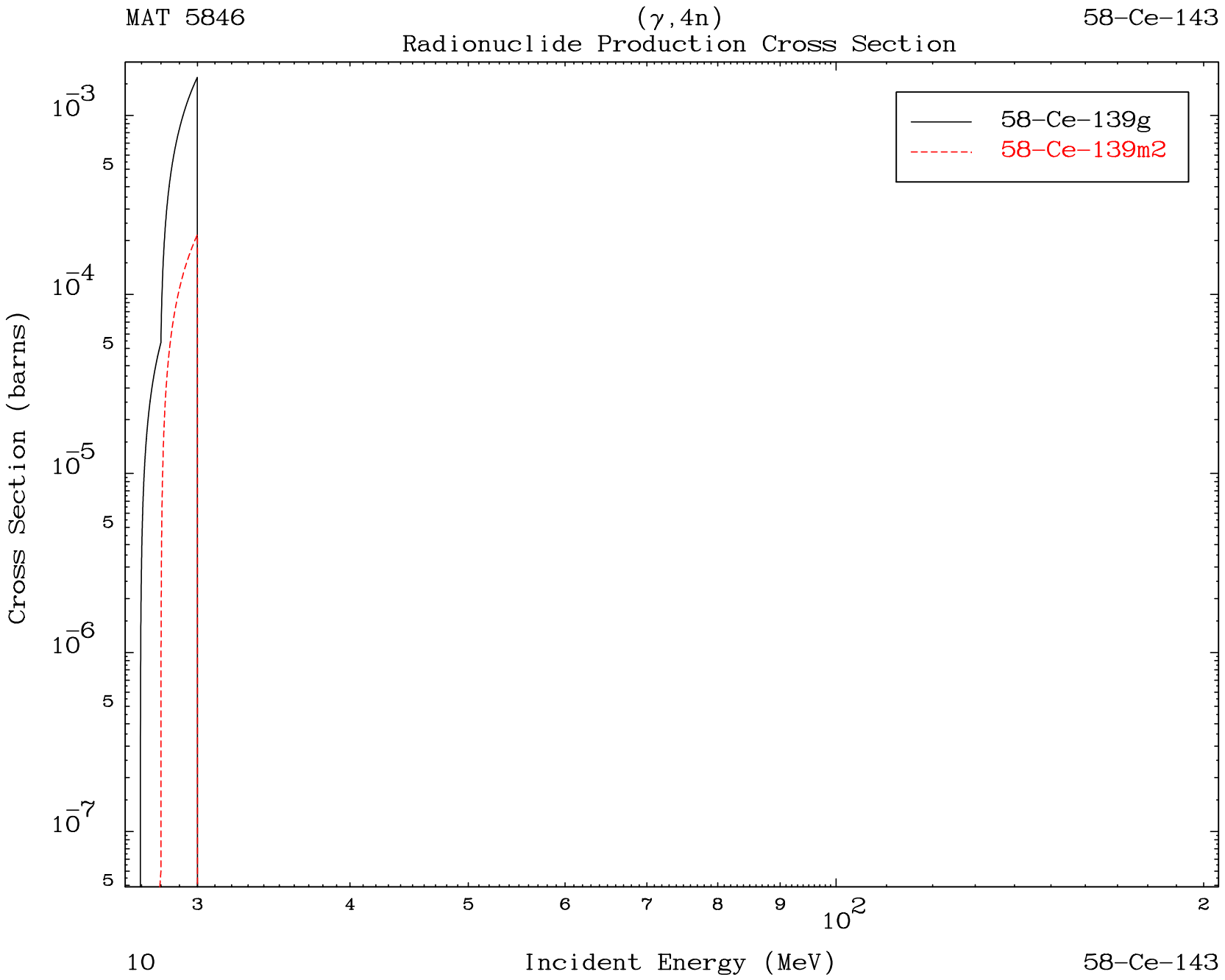

MAT 5846
(γ,p) Levels
58-Ce-143
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
58-Ce-143


MAT 5846
(γ,d) Levels
58-Ce-143
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)
6
58-Ce-143


MAT 5846
(γ,t) Levels
58-Ce-143
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
Incident Energy (MeV)
7
58-Ce-143


MAT 5846
(γ,α) Levels
58-Ce-143
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
8
58-Ce-143


MAT 5846
(γ,2n) α
58-Ce-143
Radionuclide Production Cross Section
56-Ba-137g
56-Ba-137m2
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
58-Ce-143


MAT 5846
(γ,4n)
58-Ce-143
Radionuclide Production Cross Section
58-Ce-139g
58-Ce-139m2
Cross Section (barns)
10^-3
5
10^-4
5
10^-5
5
10^-6
5
10^-7
5
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
58-Ce-143