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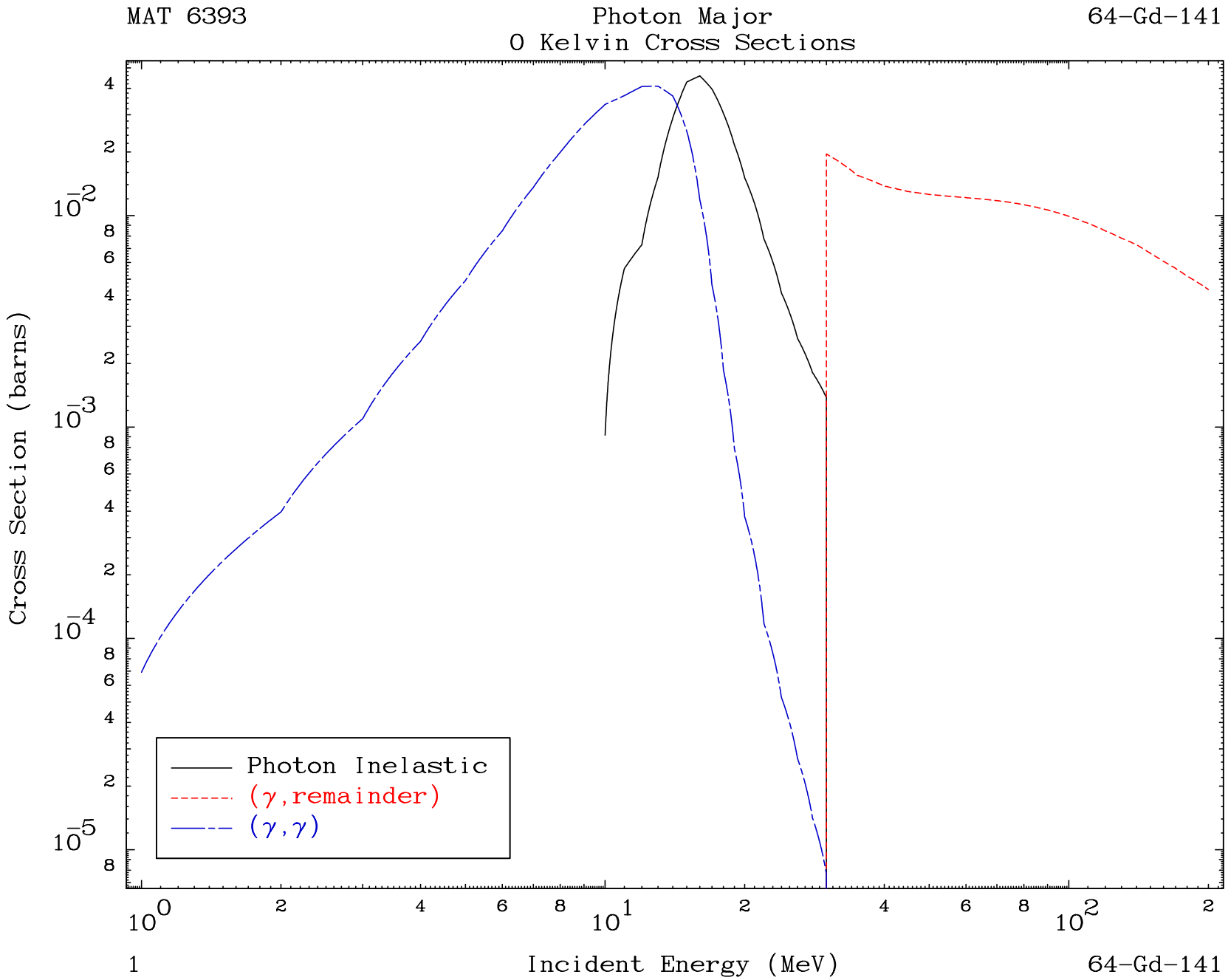
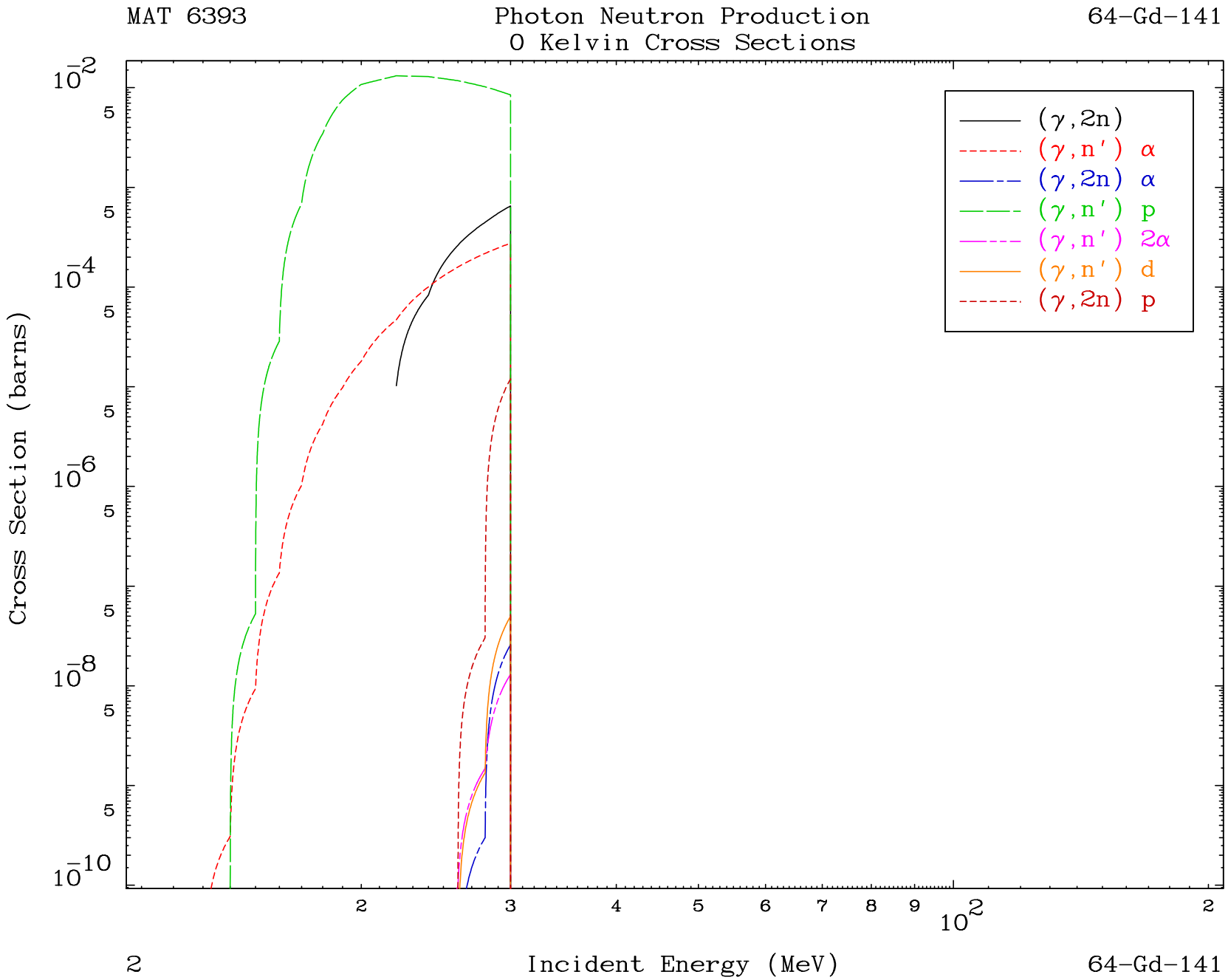
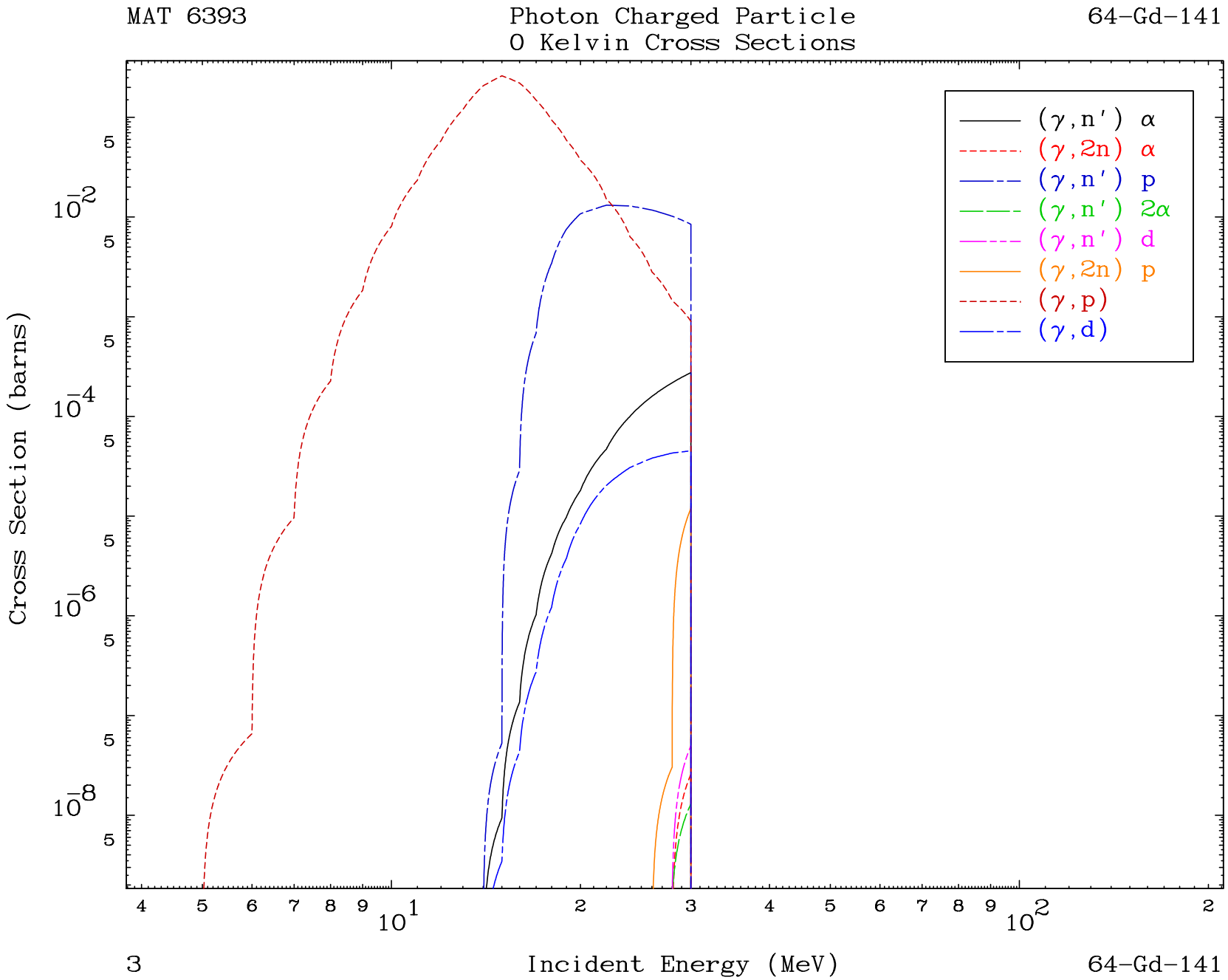
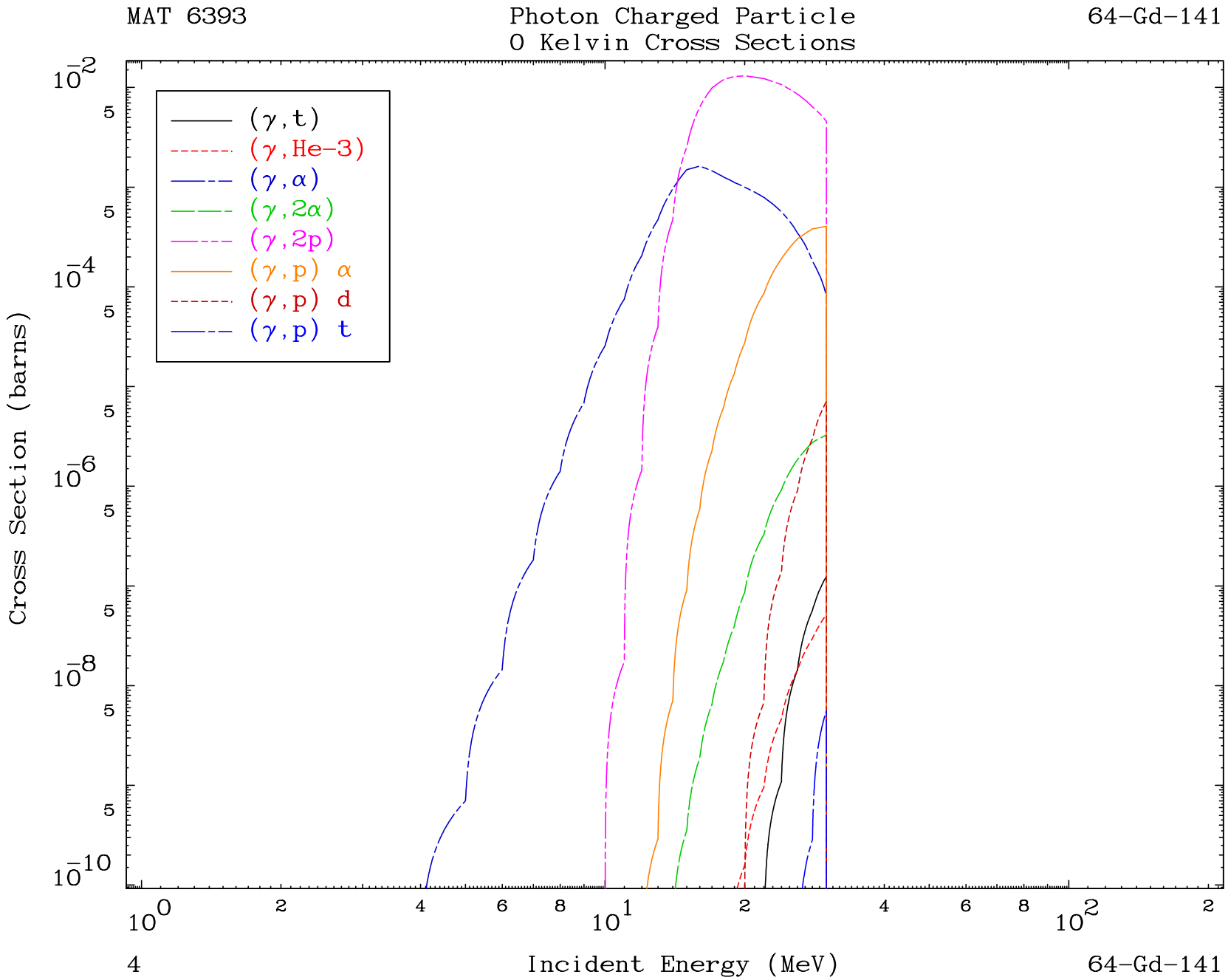
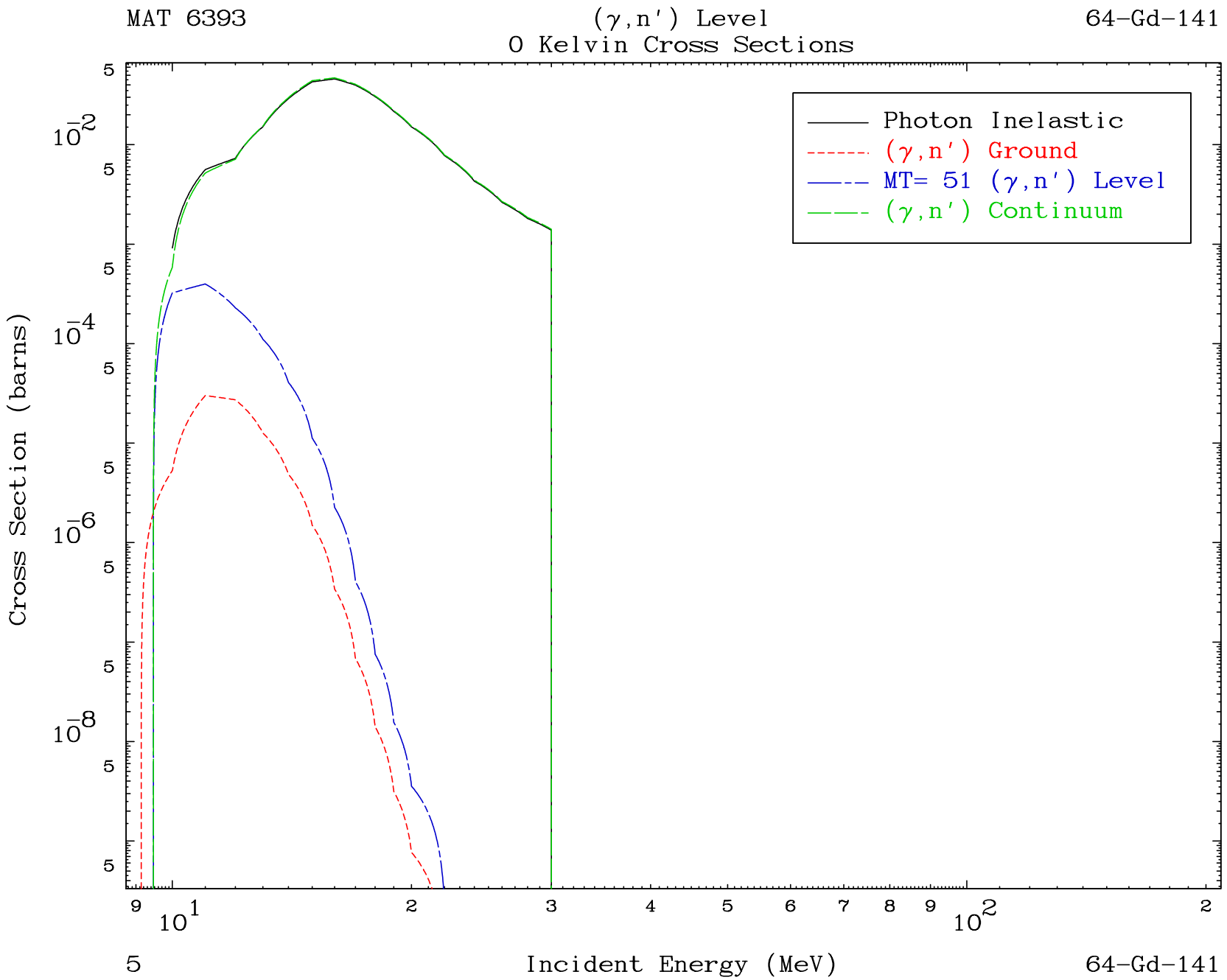
Press Mouse Button to Start

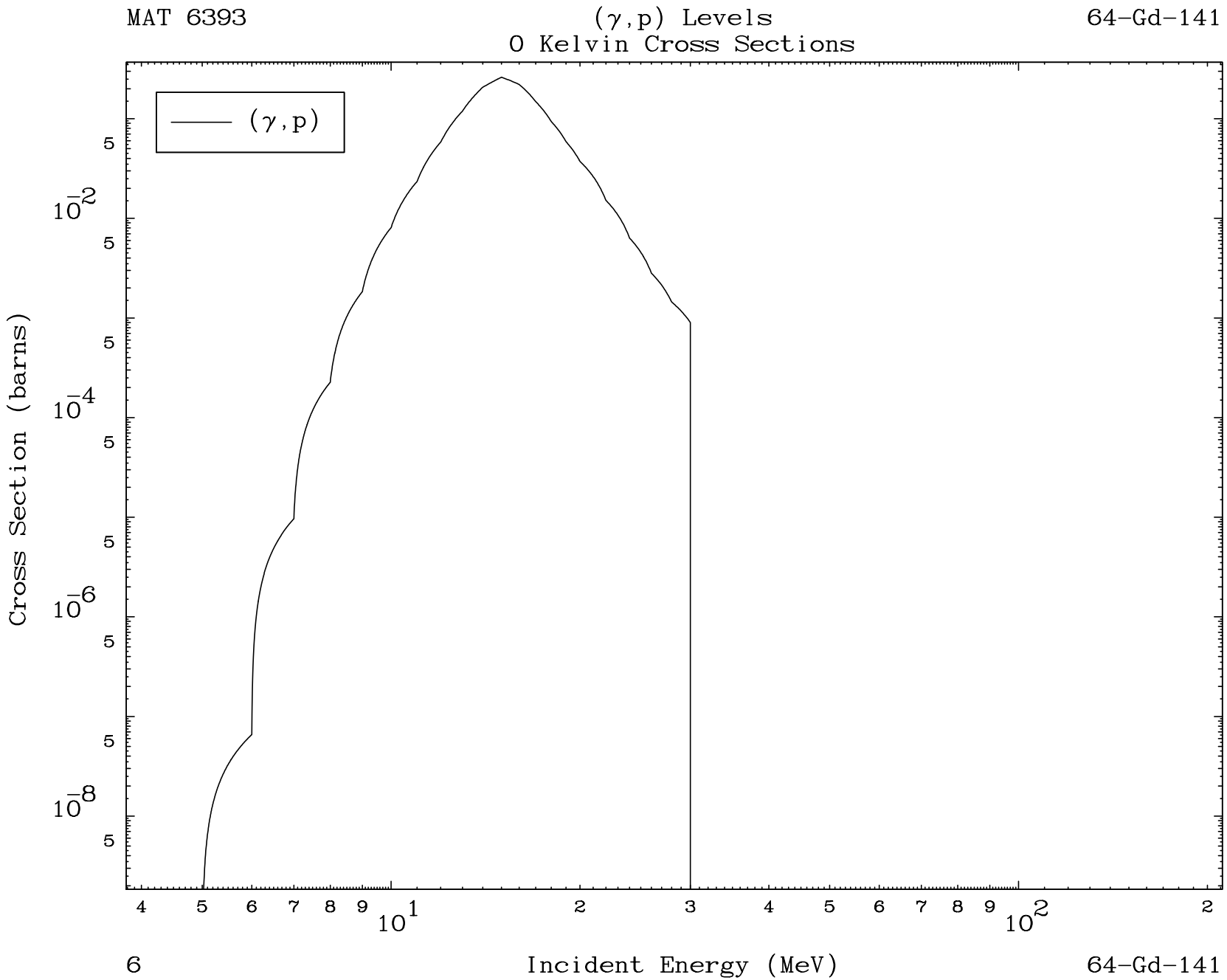

MAT 6393
Photon Major
64-Gd-141
0 Kelvin Cross Sections
Cross Section (barns)
Photon Inelastic
(γ,remainder)
(γ,γ)
Incident Energy (MeV)
64-Gd-141

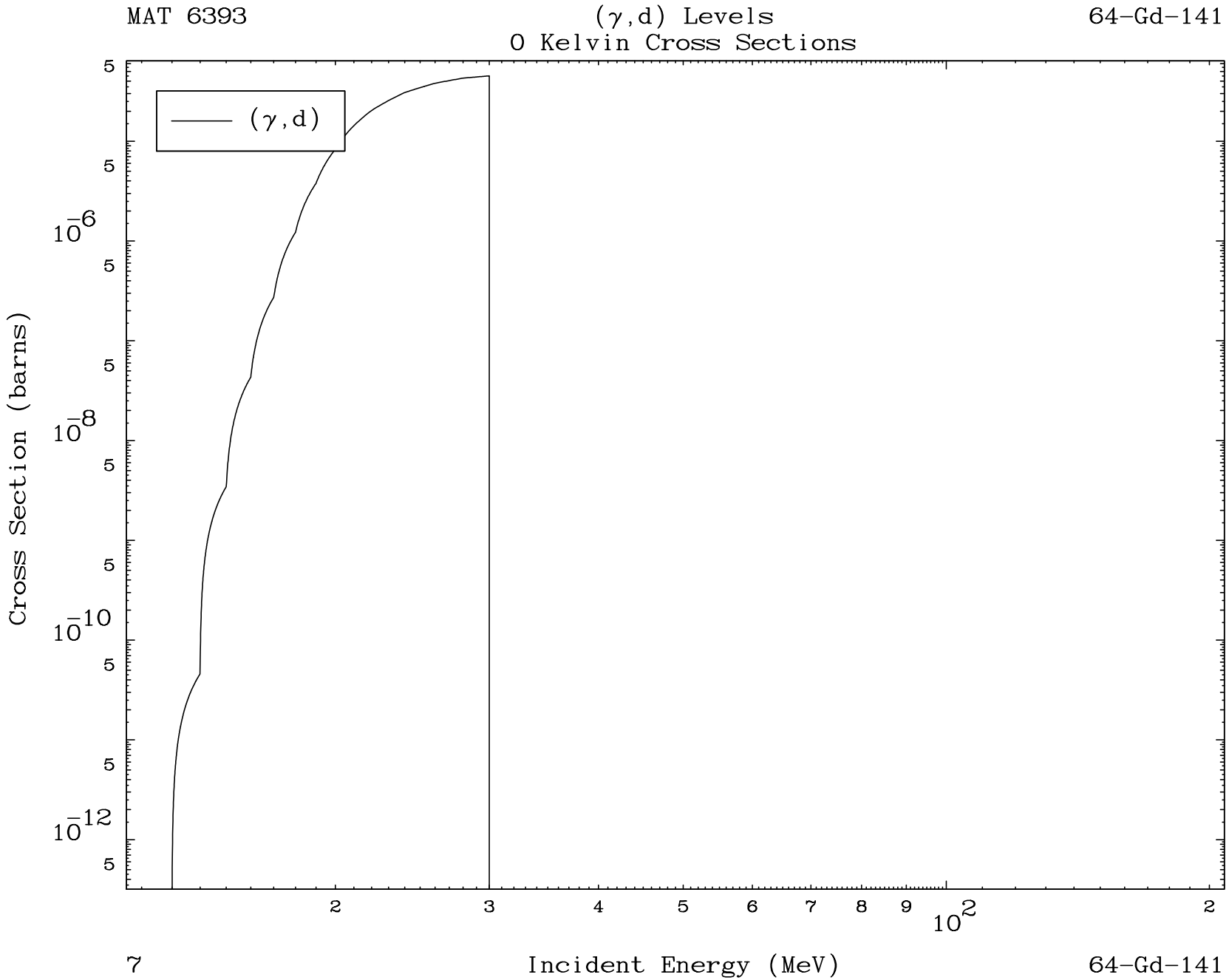

MAT 6393
Photon Neutron Production
0 Kelvin Cross Sections
64-Gd-141
Cross Section (barns)
Incident Energy (MeV)
64-Gd-141
(γ,2n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p

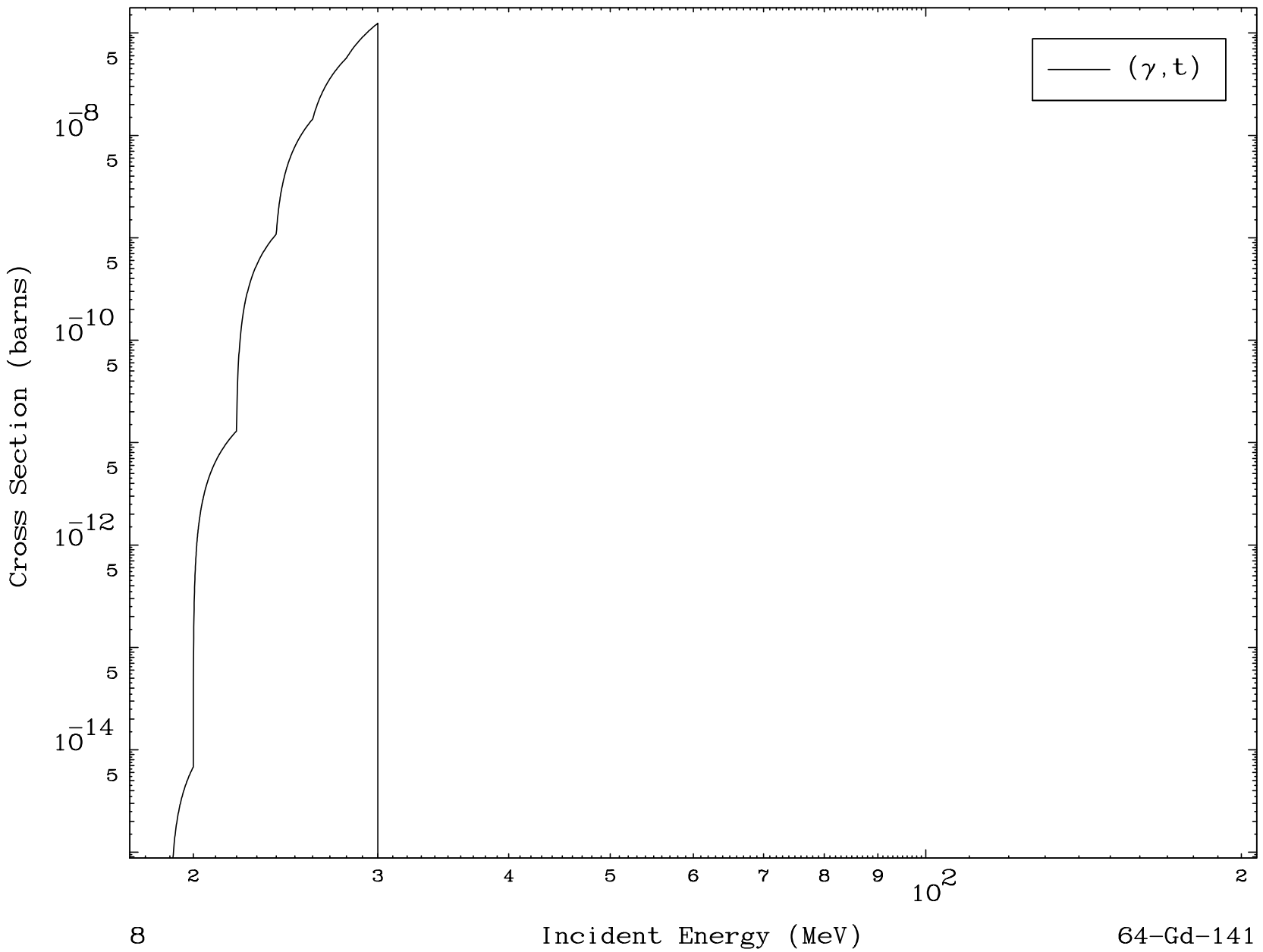

MAT 6393
Photon Charged Particle
0 Kelvin Cross Sections
64-Gd-141
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p
(γ,p)
(γ,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
3
64-Gd-141

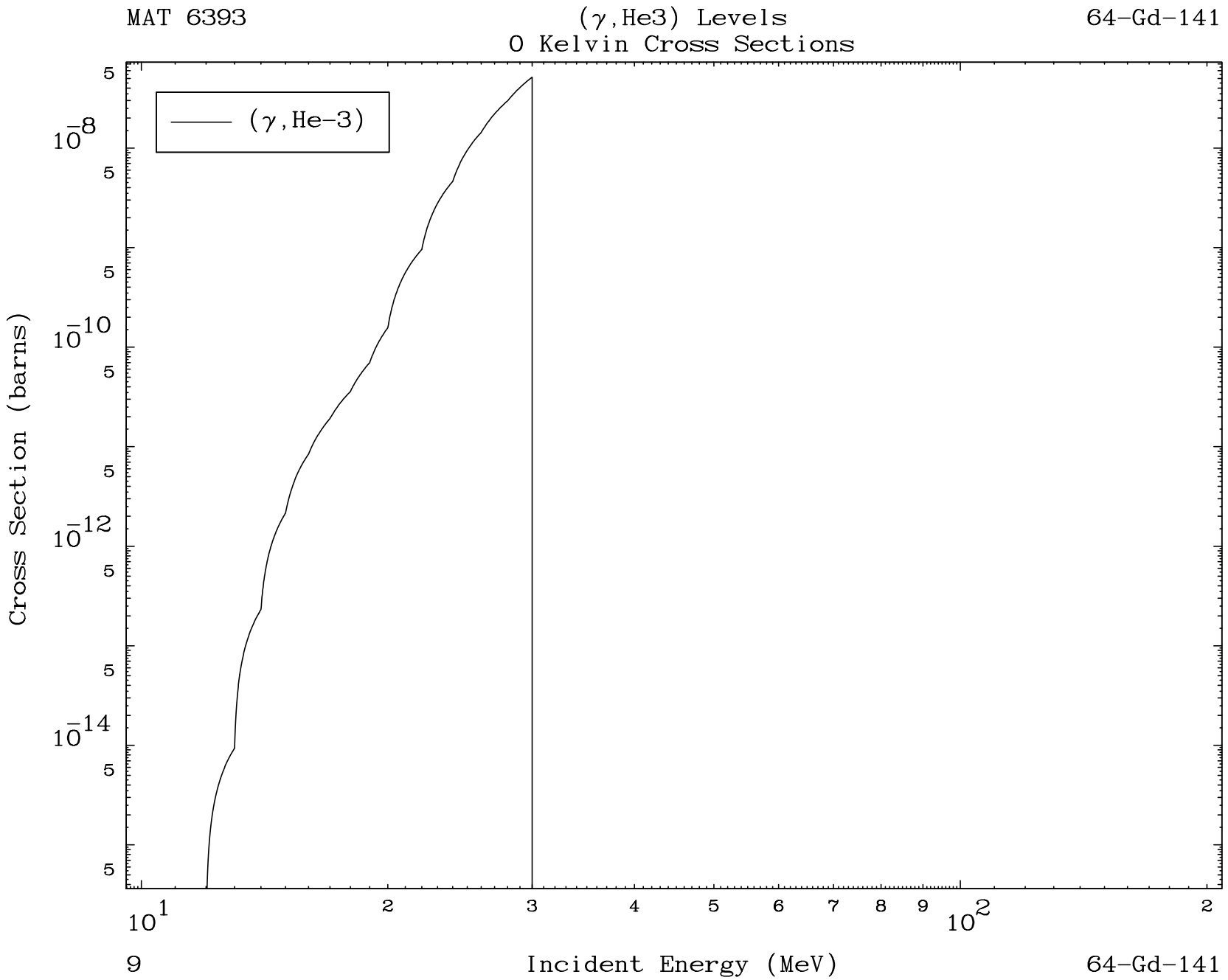

MAT 6393
Photon Charged Particle
0 Kelvin Cross Sections
64-Gd-141
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
(γ,p) t
Cross Section (barns)
Incident Energy (MeV)
64-Gd-141
4

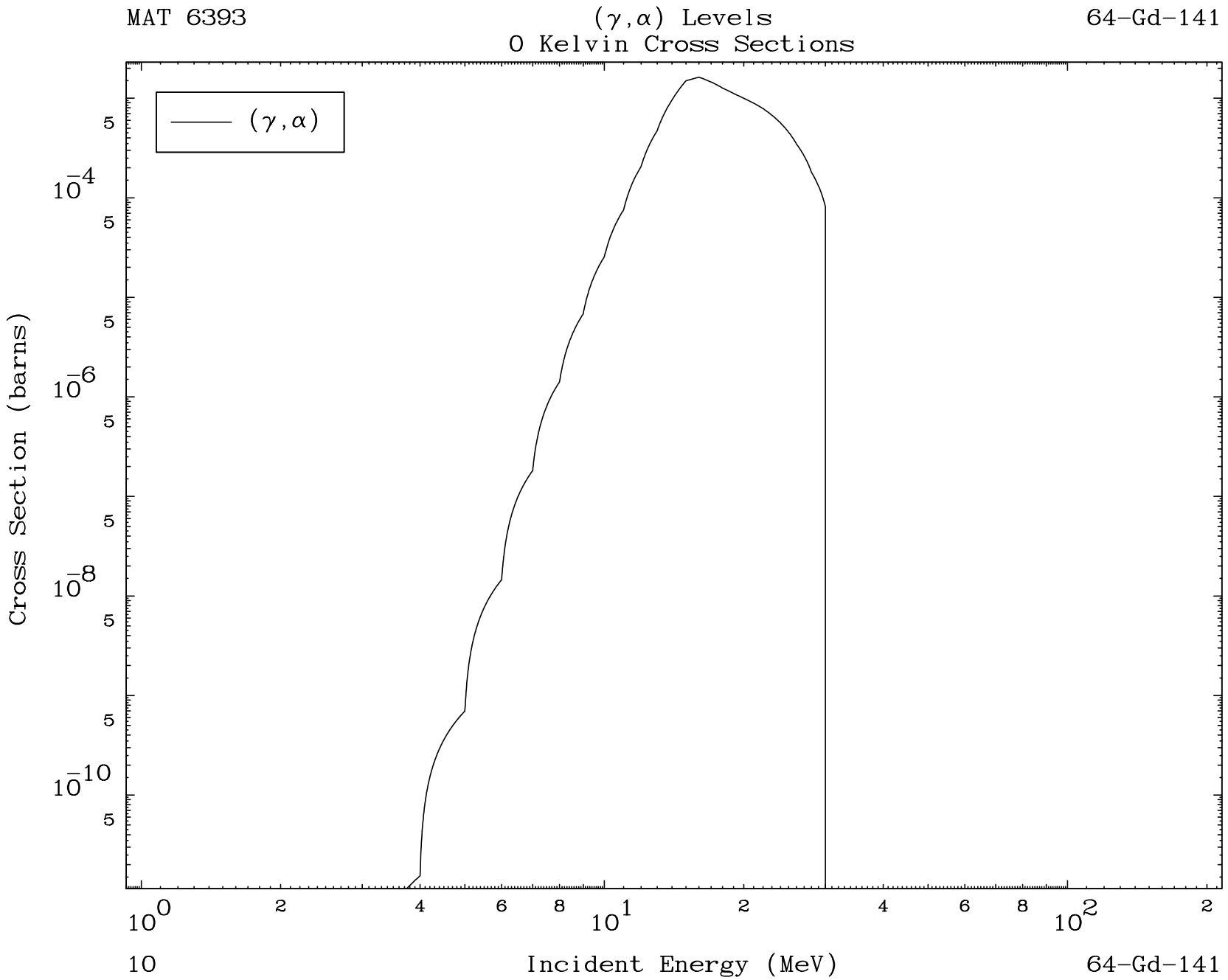

MAT 6393
(γ,n') Level
64-Gd-141
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
64-Gd-141

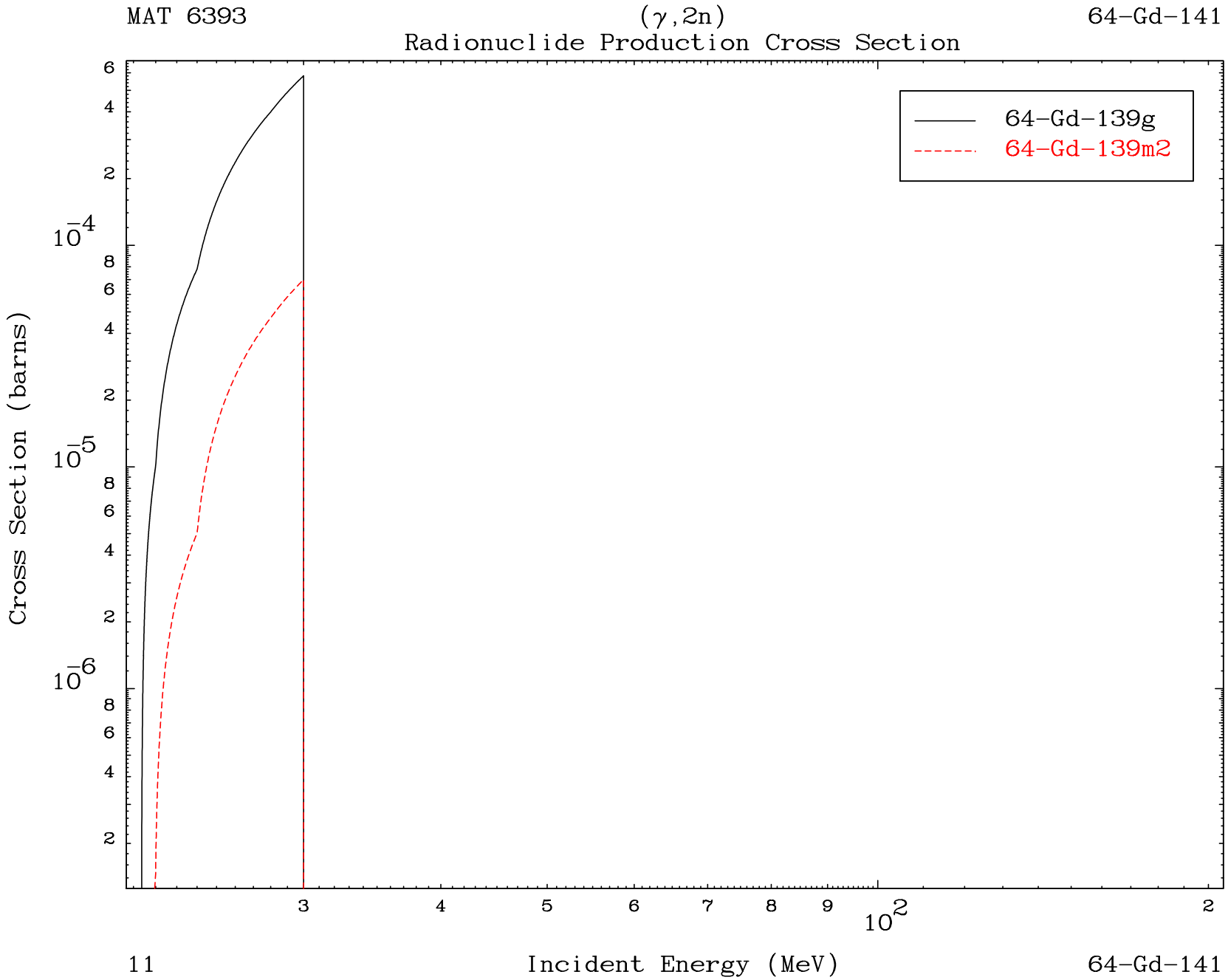

MAT 6393
(γ,p) Levels
64-Gd-141
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
64-Gd-141

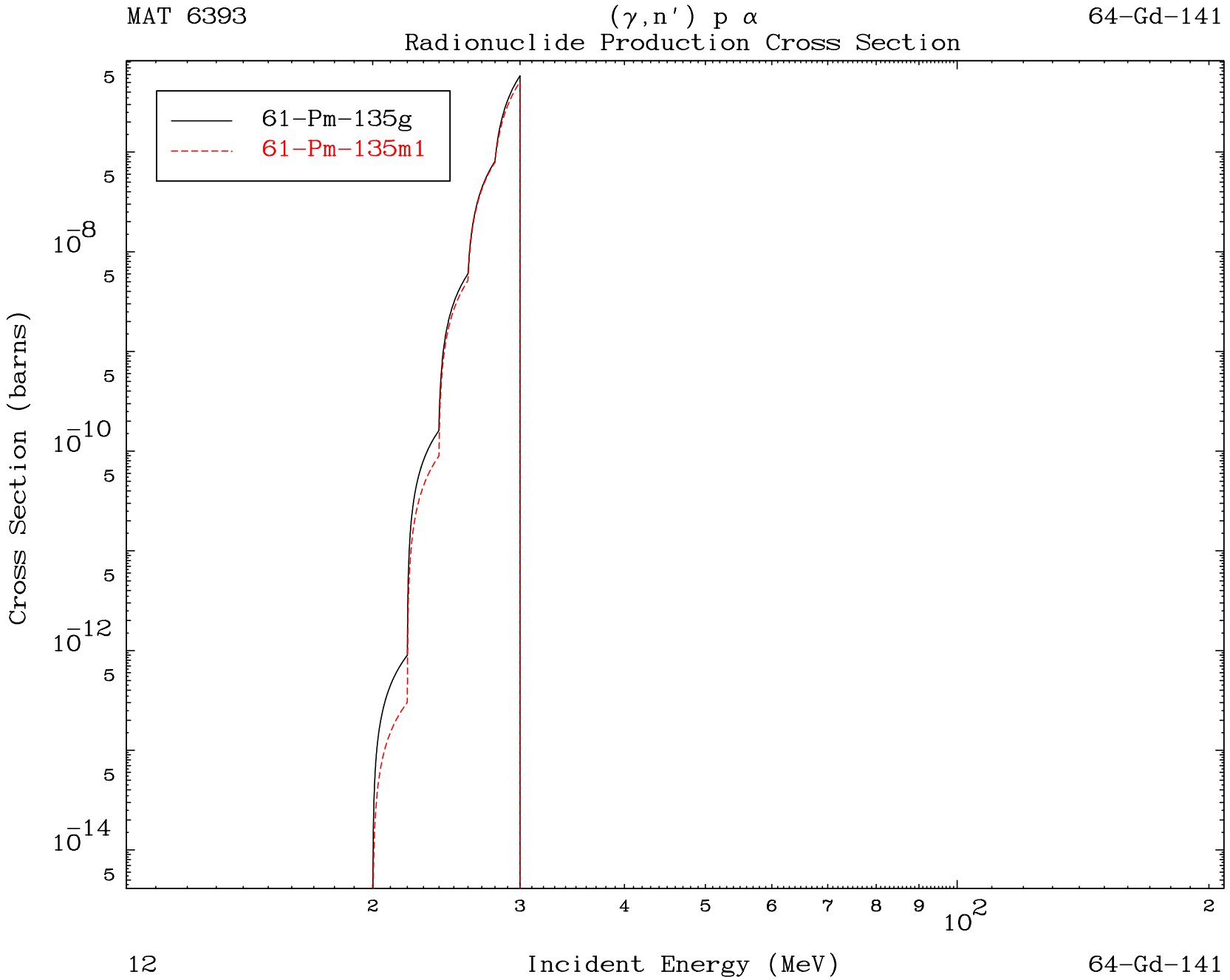

MAT 6393
(γ,d) Levels
64-Gd-141
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
7
64-Gd-141

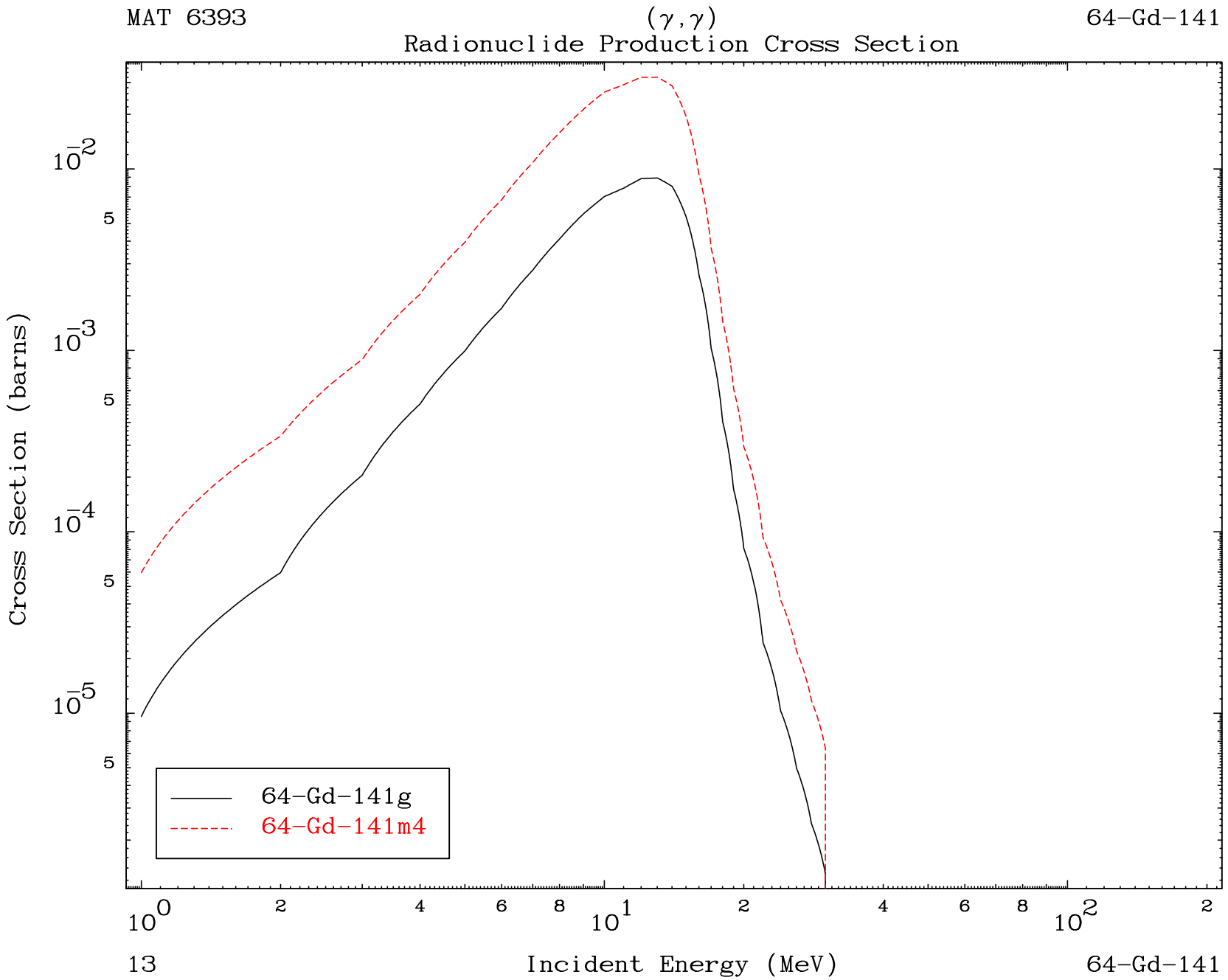

0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

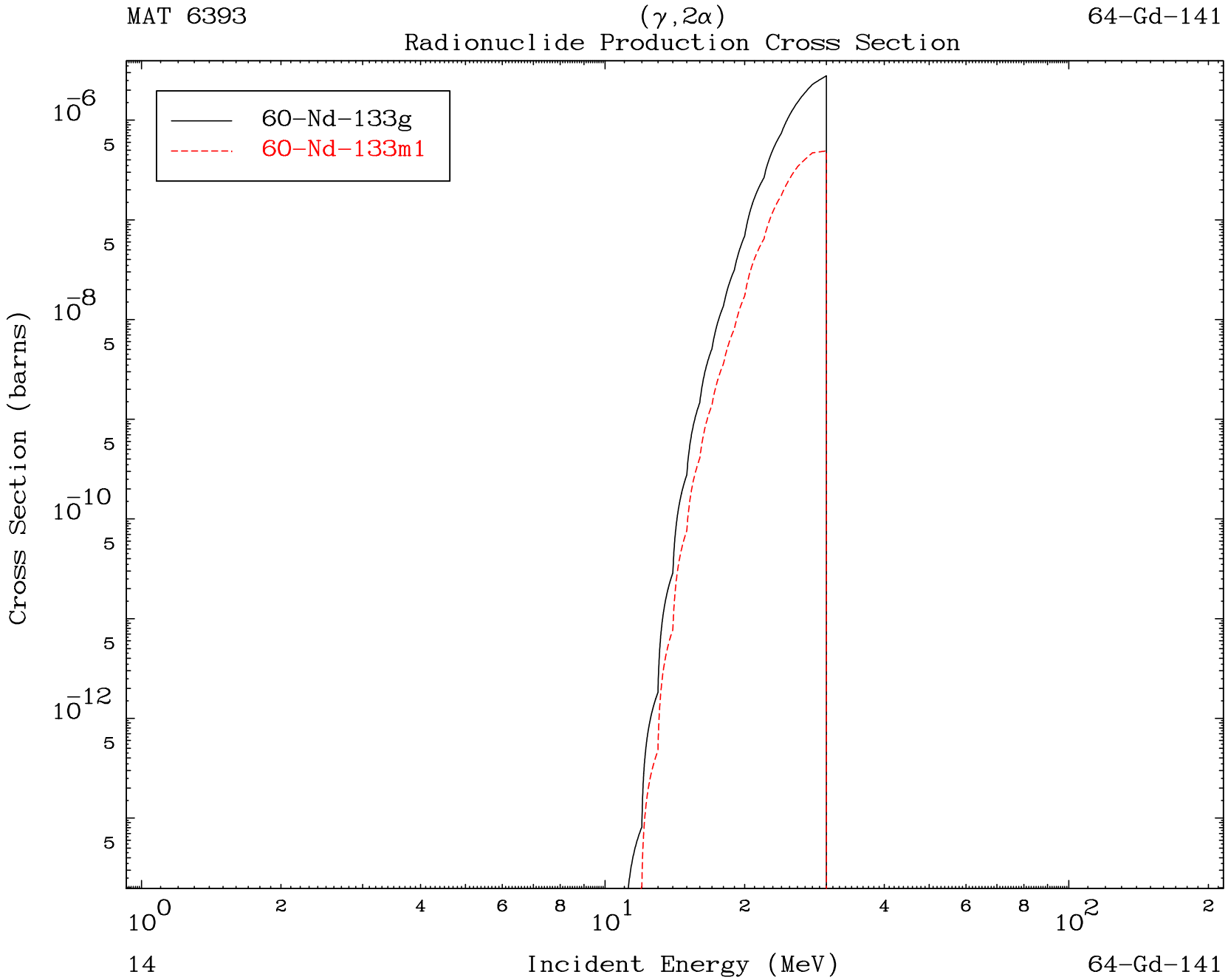

MAT 6393
(γ,He3) Levels
64-Gd-141
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
Incident Energy (MeV)
64-Gd-141
9

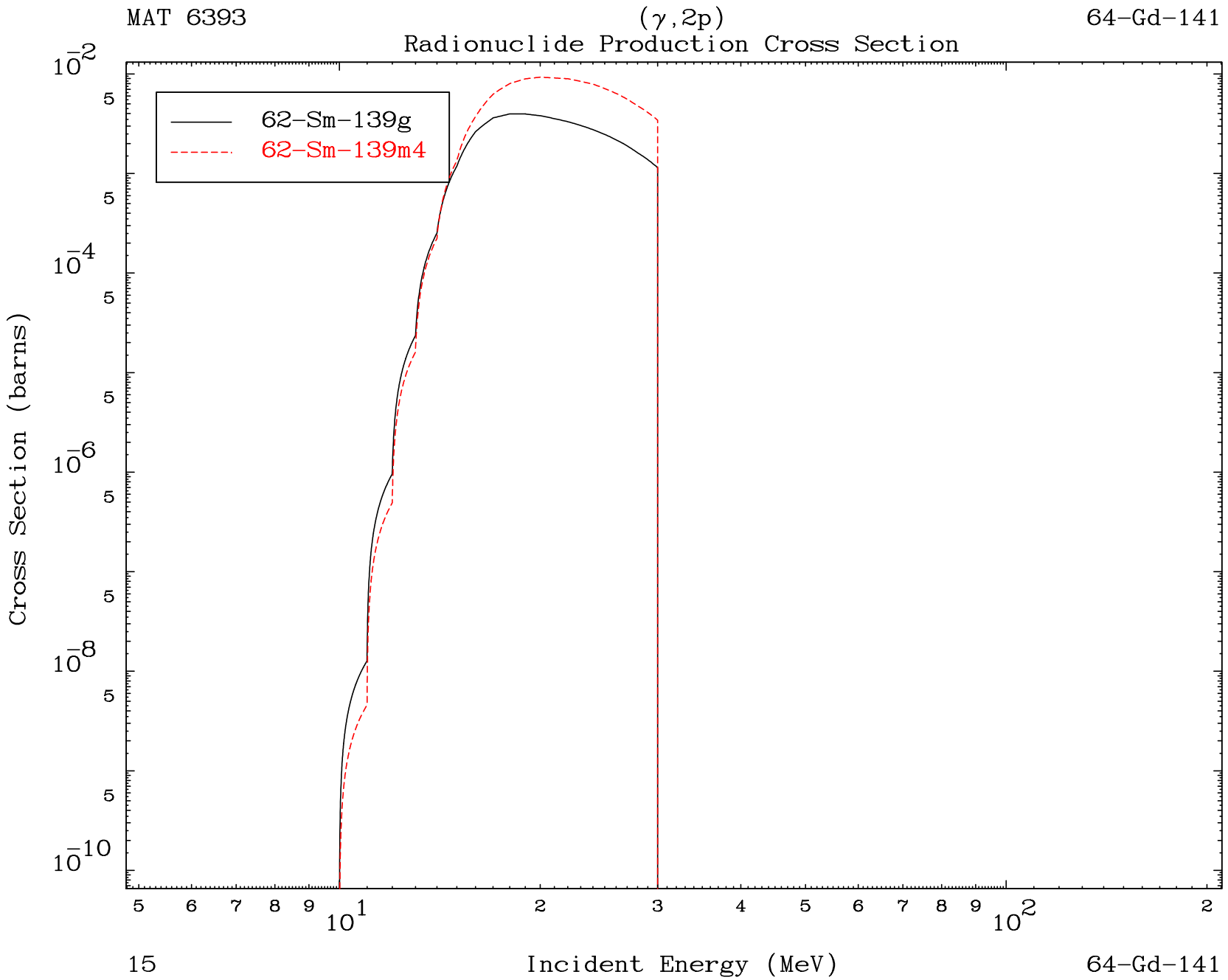

MAT 6393
(γ,α) Levels
64-Gd-141
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
64-Gd-141

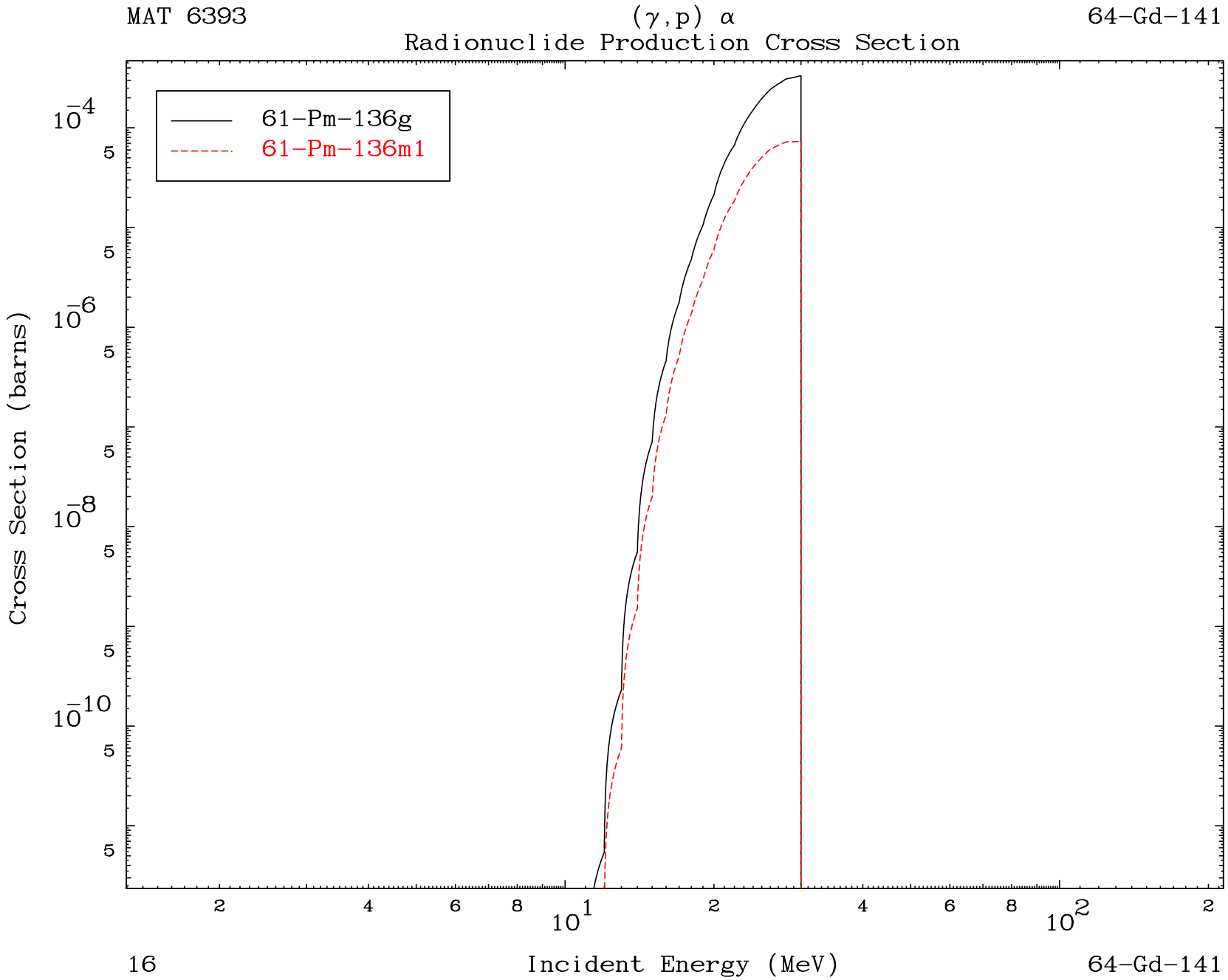

MAT 6393
(γ,2n)
64-Gd-141
Radionuclide Production Cross Section
64-Gd-139g
64-Gd-139m2
Cross Section (barns)
Incident Energy (MeV)
11
64-Gd-141


MAT 6393
(γ,n') p α
64-Gd-141
Radionuclide Production Cross Section
61-Pm-135g
61-Pm-135m1
Cross Section (barns)
Incident Energy (MeV)
12
64-Gd-141


MAT 6393
(γ,γ)
64-Gd-141
Radionuclide Production Cross Section
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
64-Gd-141g
64-Gd-141m4
100
2
4
6
8
101
2
4
6
8
102
2
13
Incident Energy (MeV)
64-Gd-141


MAT 6393
(γ,2α)
64-Gd-141
Radionuclide Production Cross Section
60-Nd-133g
60-Nd-133m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
100
2
4
6
8
101
102
14
Incident Energy (MeV)
64-Gd-141


MAT 6393
(γ,2p)
64-Gd-141
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
Incident Energy (MeV)
15
64-Gd-141


MAT 6393
(γ,p) α
64-Gd-141
Radionuclide Production Cross Section
61-Pm-136g
61-Pm-136m1
Cross Section (barns)
Incident Energy (MeV)
16
64-Gd-141