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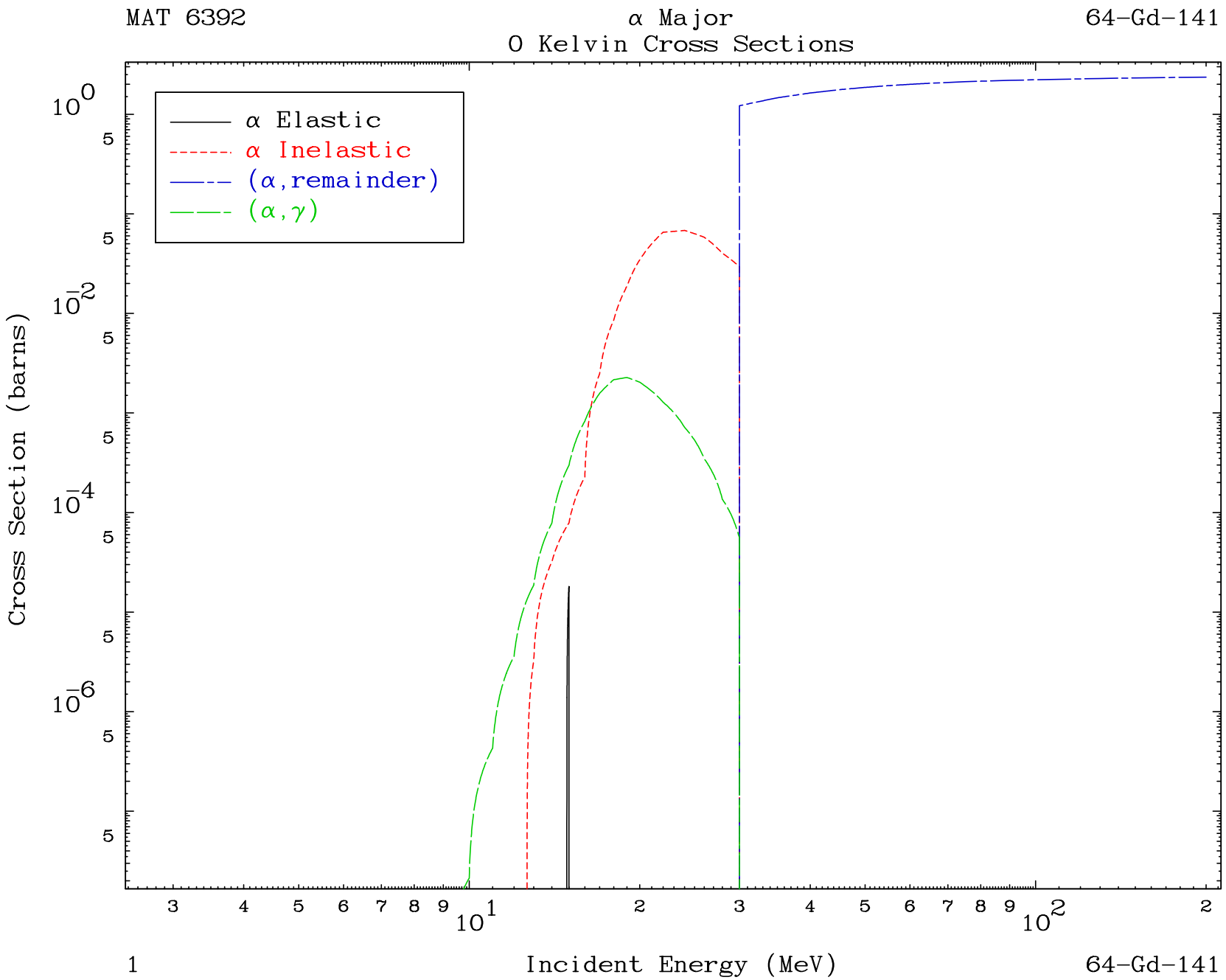
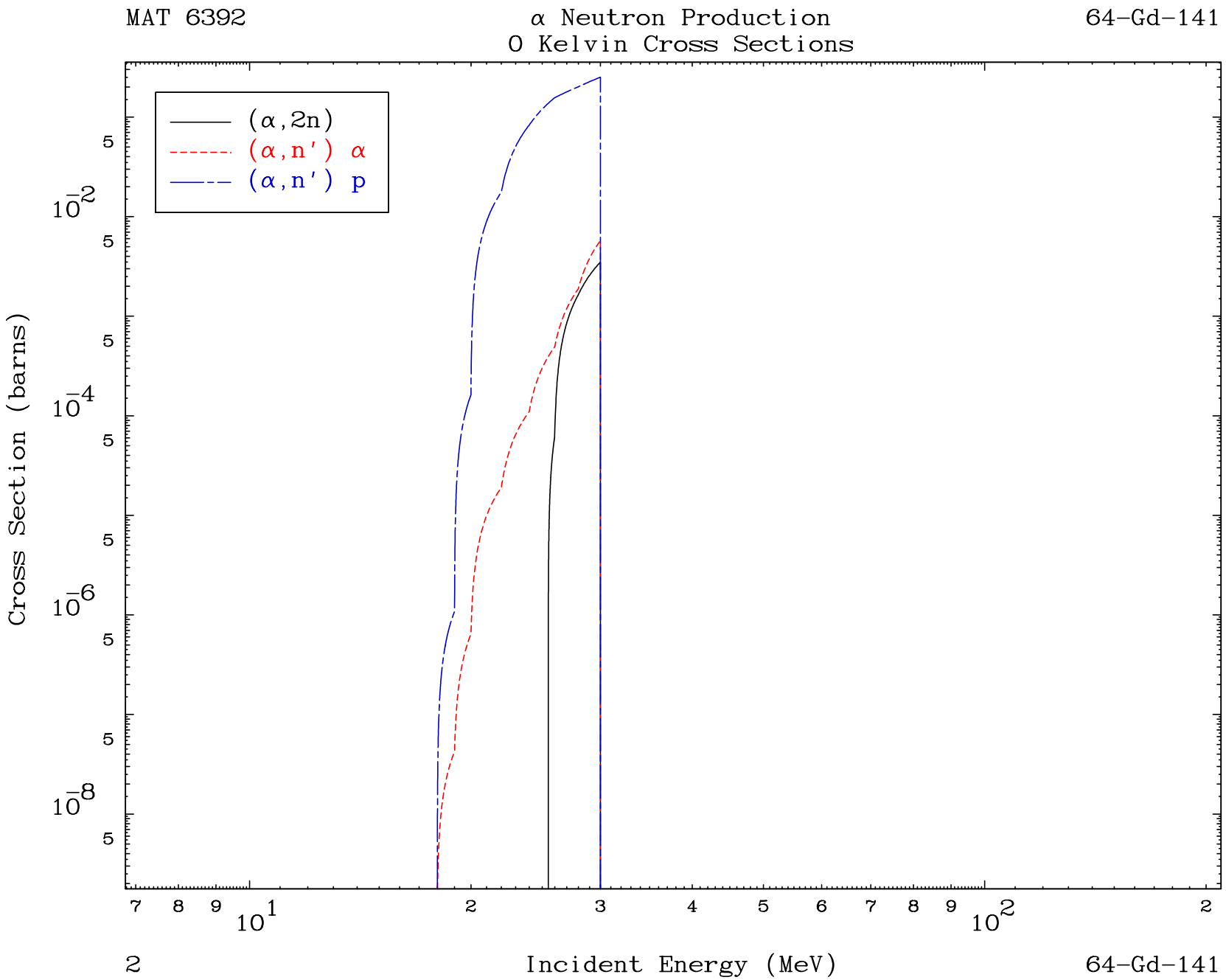
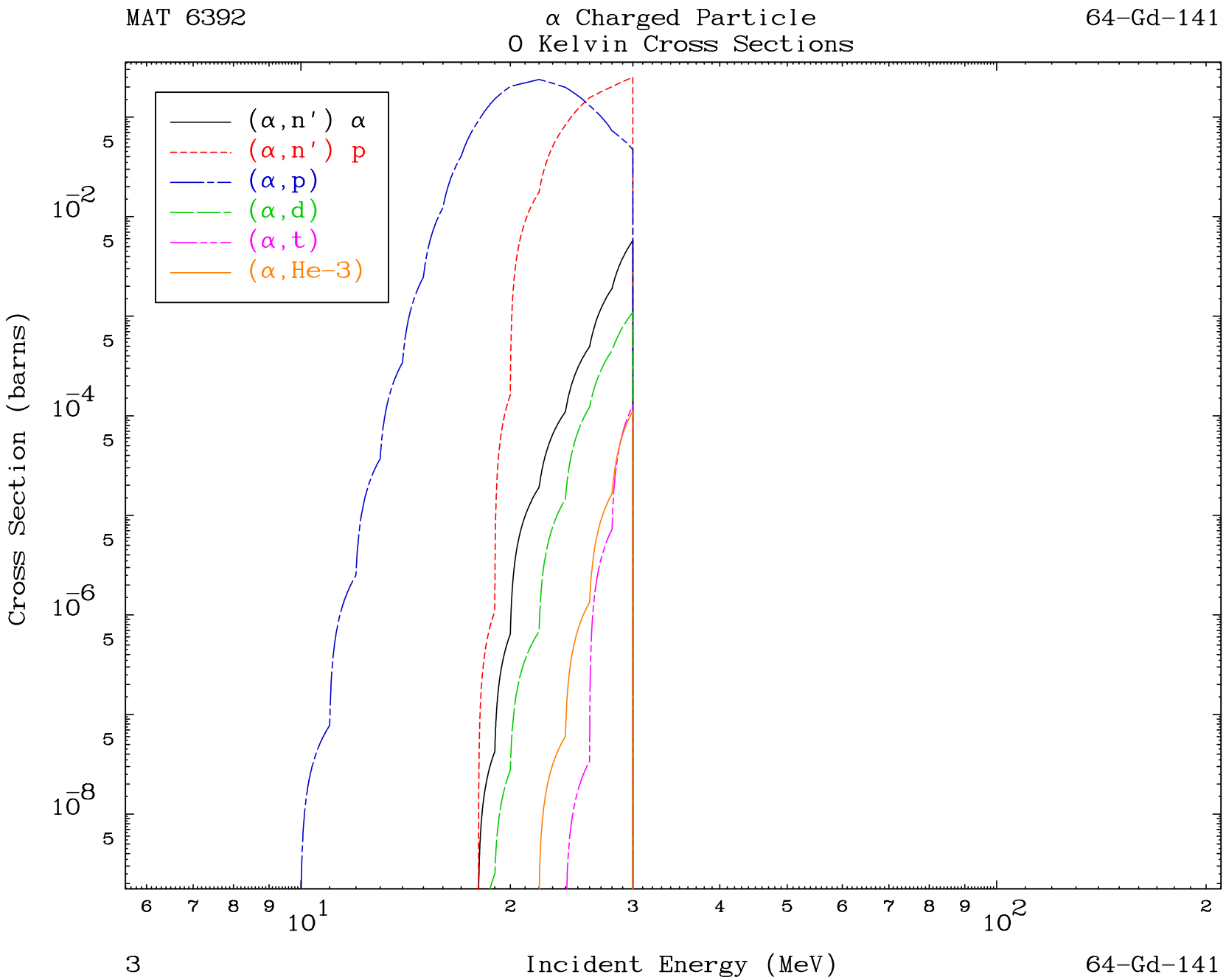
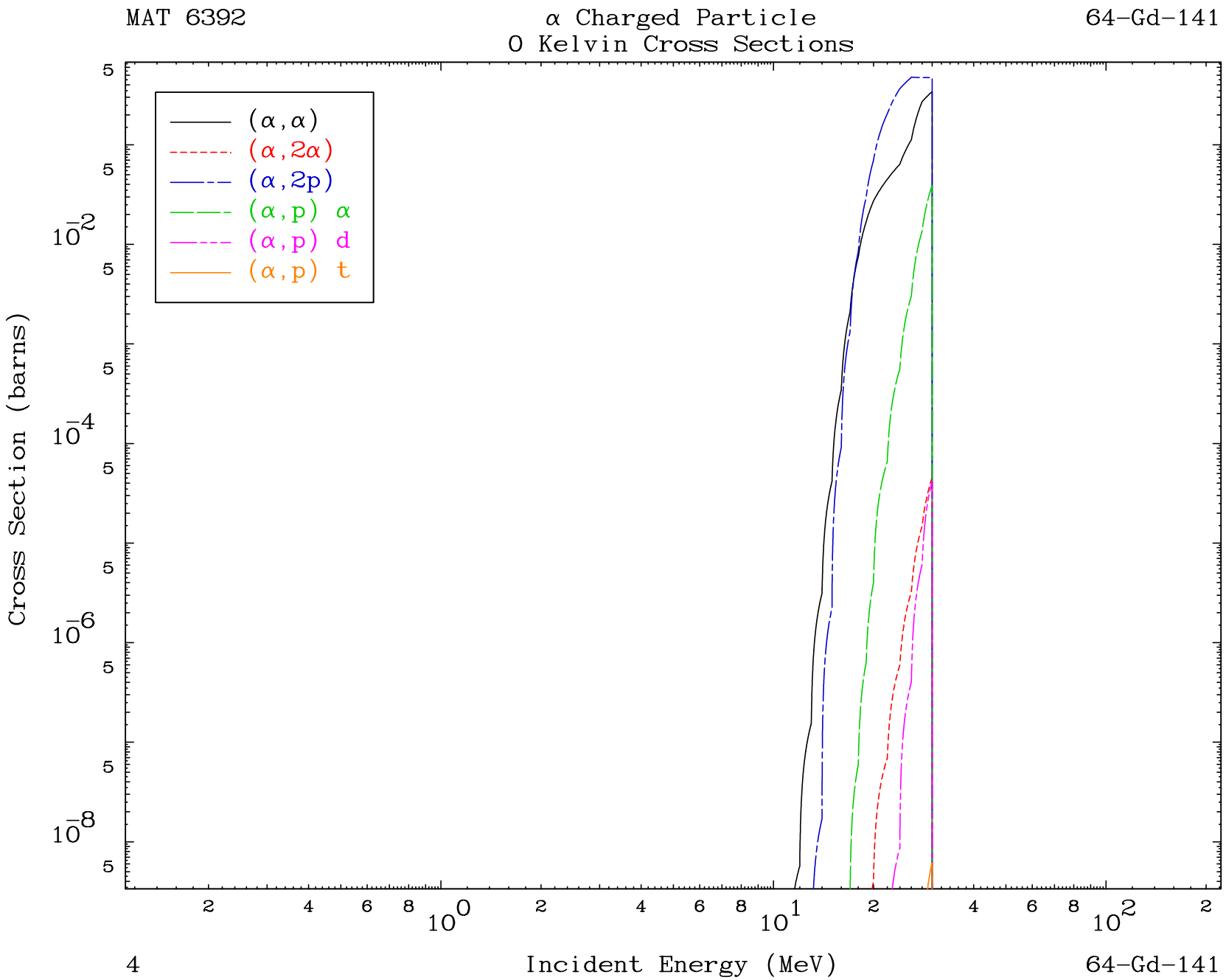
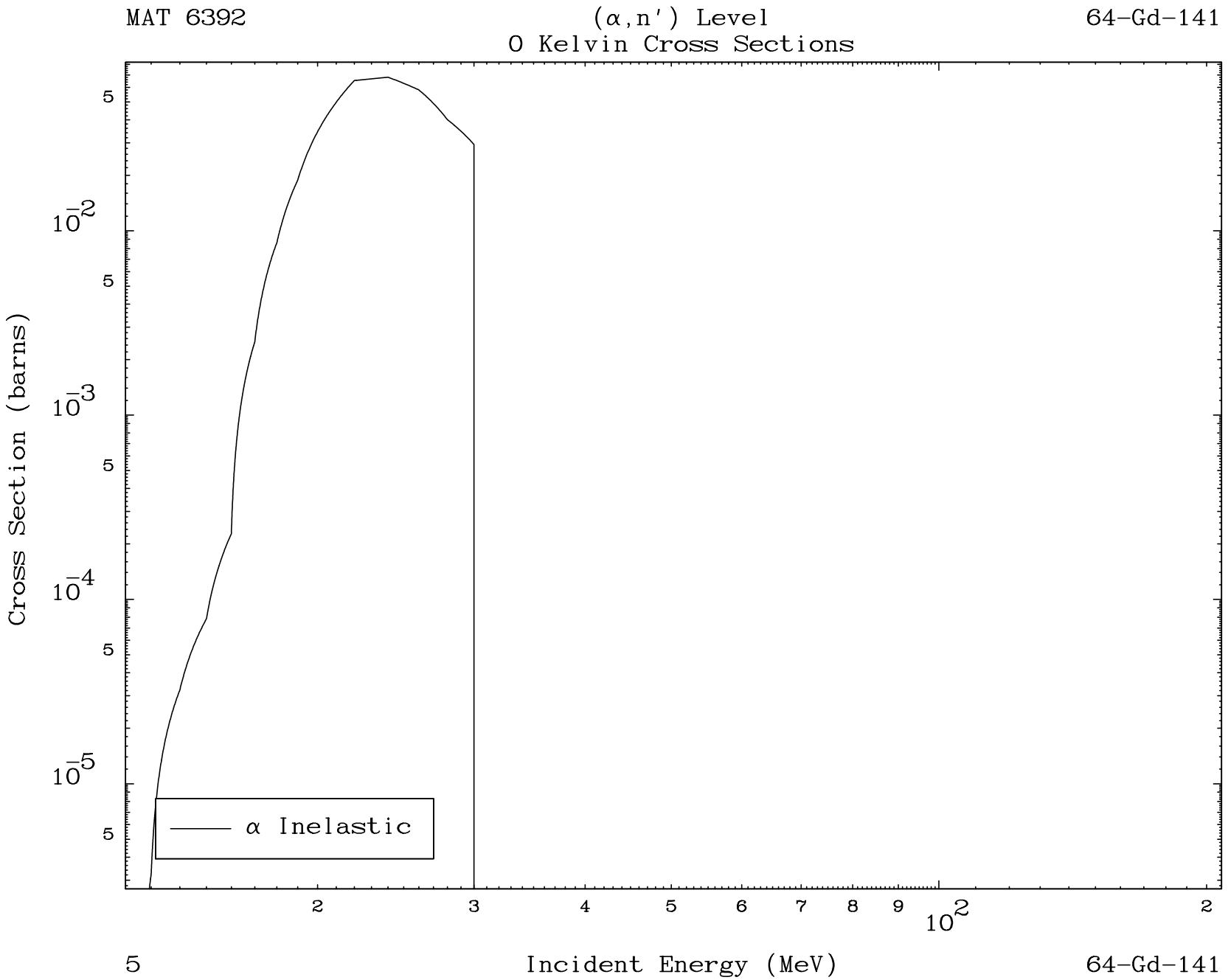
Press Mouse Button to Start

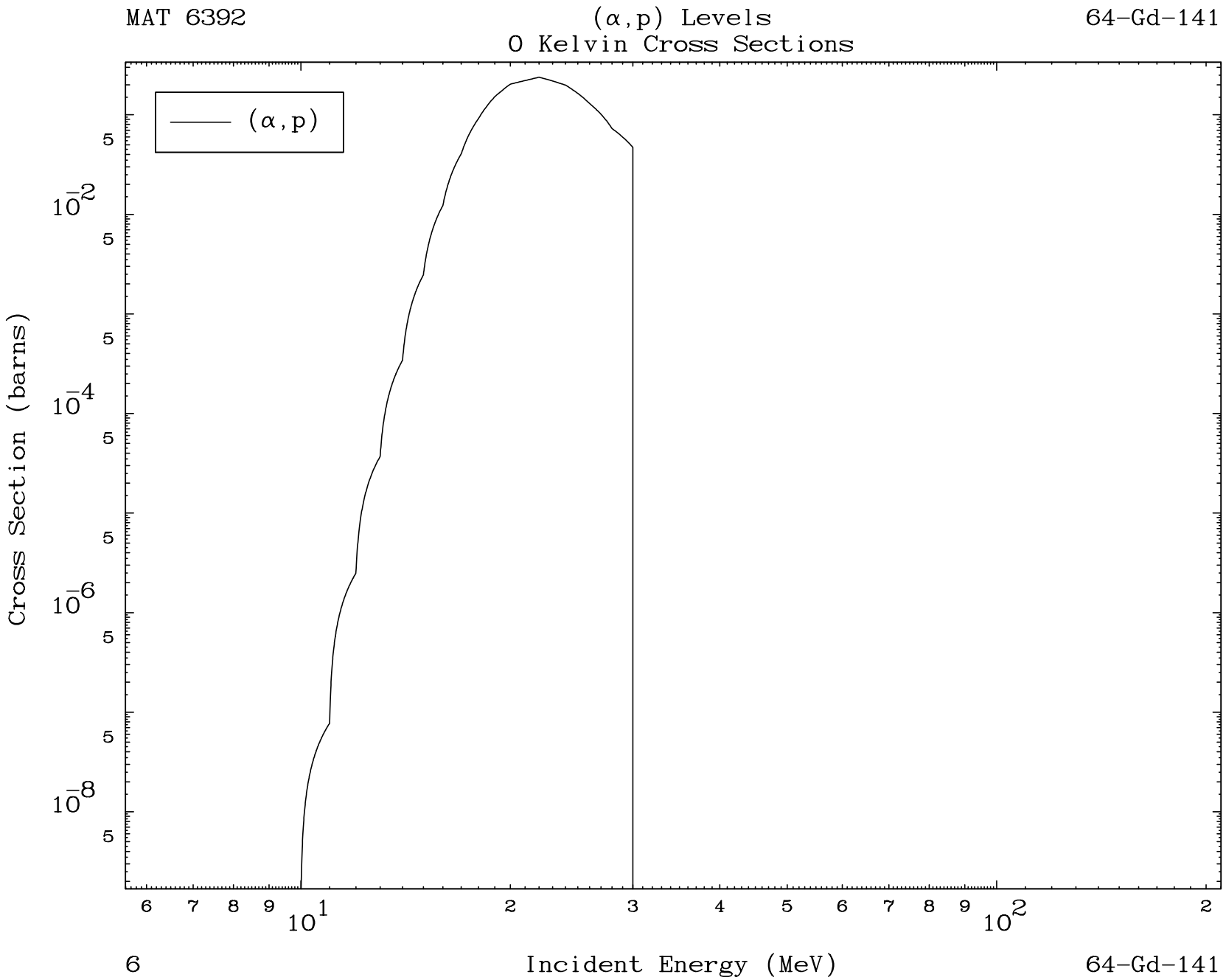

MAT 6392
α Major
64-Gd-141
0 Kelvin Cross Sections
α Elastic
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
64-Gd-141

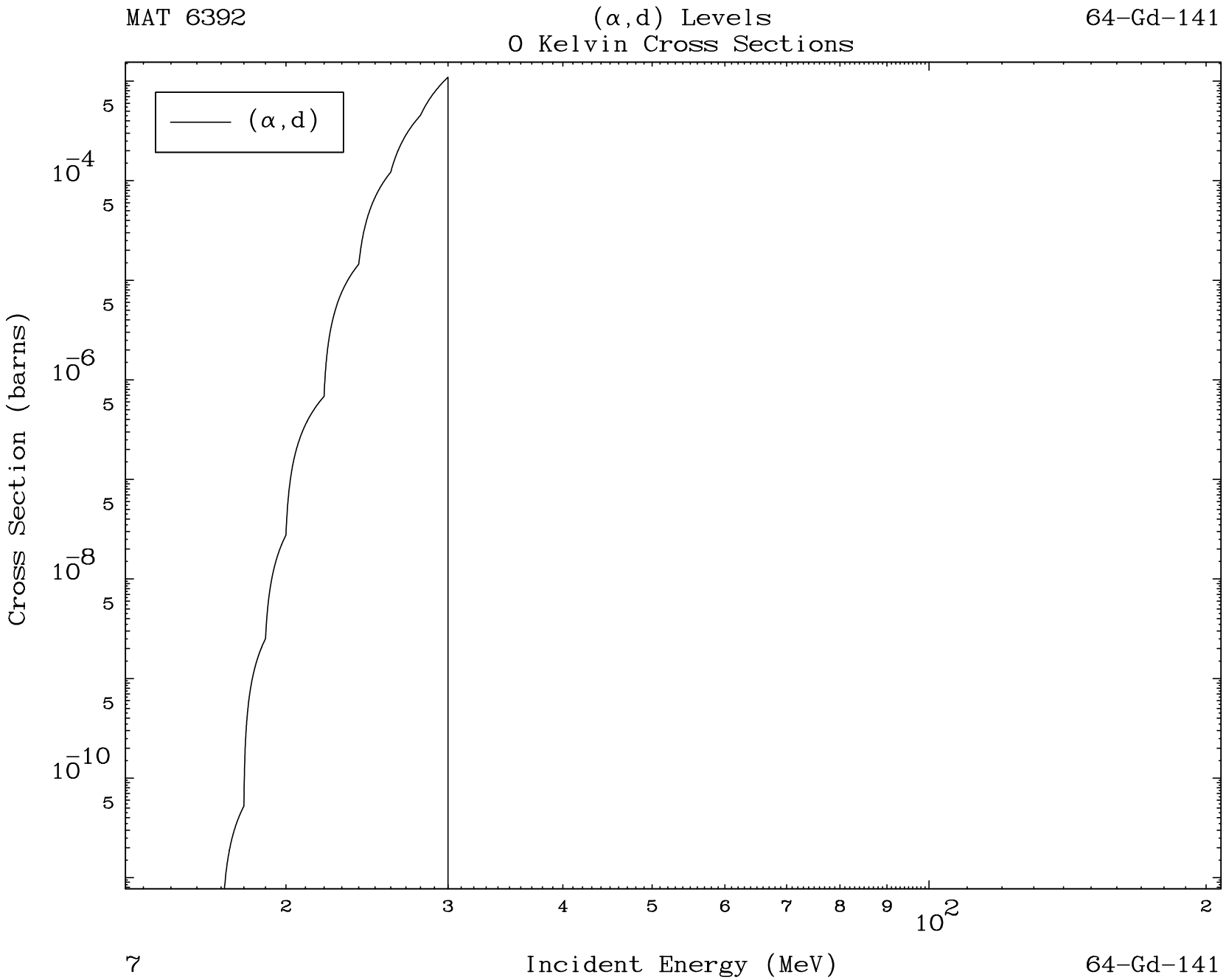

MAT 6392
α Neutron Production
0 Kelvin Cross Sections
64-Gd-141
(α,2n)
(α,n') α
(α,n') p
Cross Section (barns)
10-2
10-4
10-6
10-8
5
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
64-Gd-141

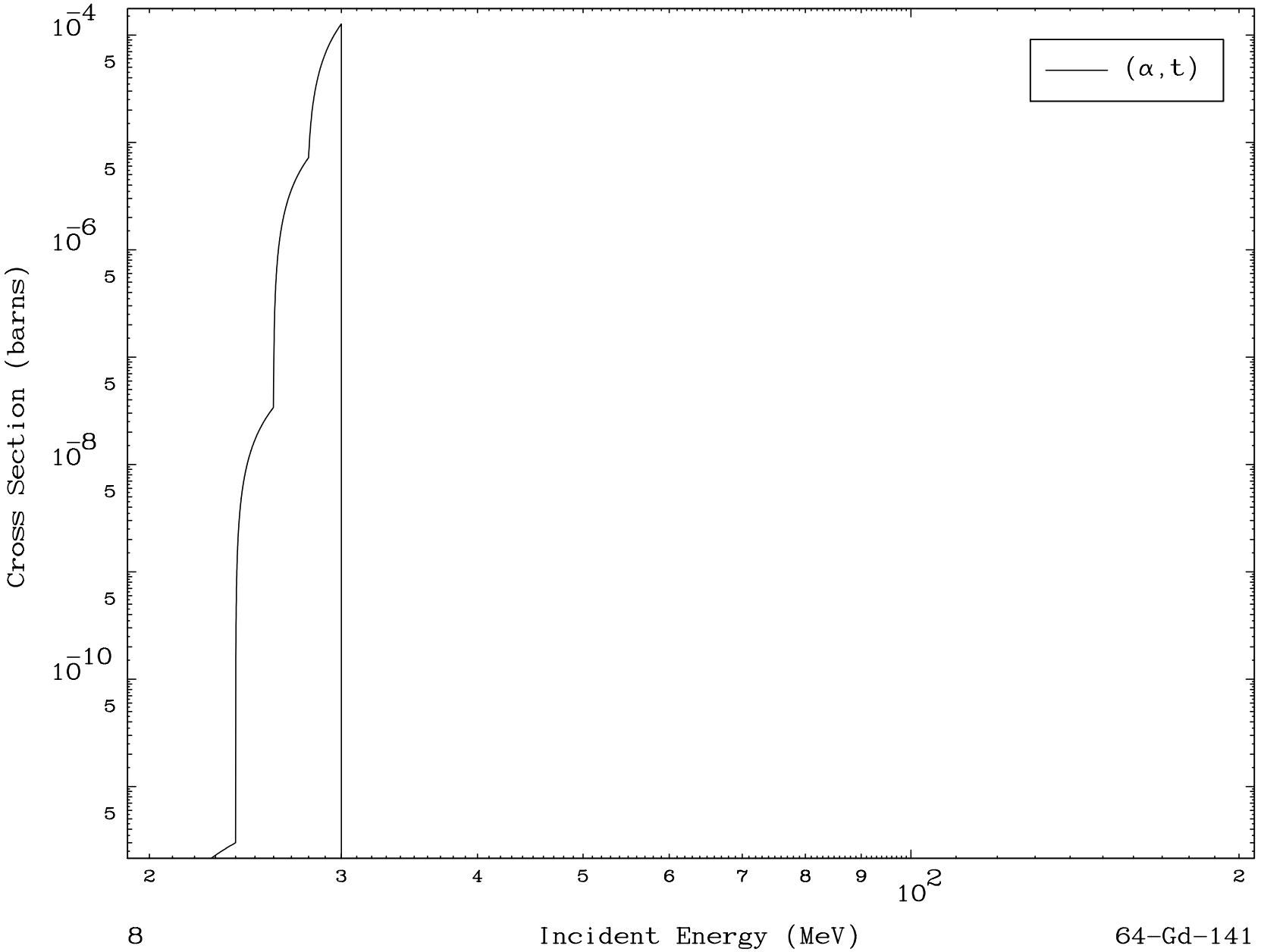

MAT 6392
α Charged Particle
0 Kelvin Cross Sections
64-Gd-141
(α,n') α
(α,n') p
(α,p)
(α,d)
(α,t)
(α,He-3)
Cross Section (barns)
Incident Energy (MeV)
3
64-Gd-141

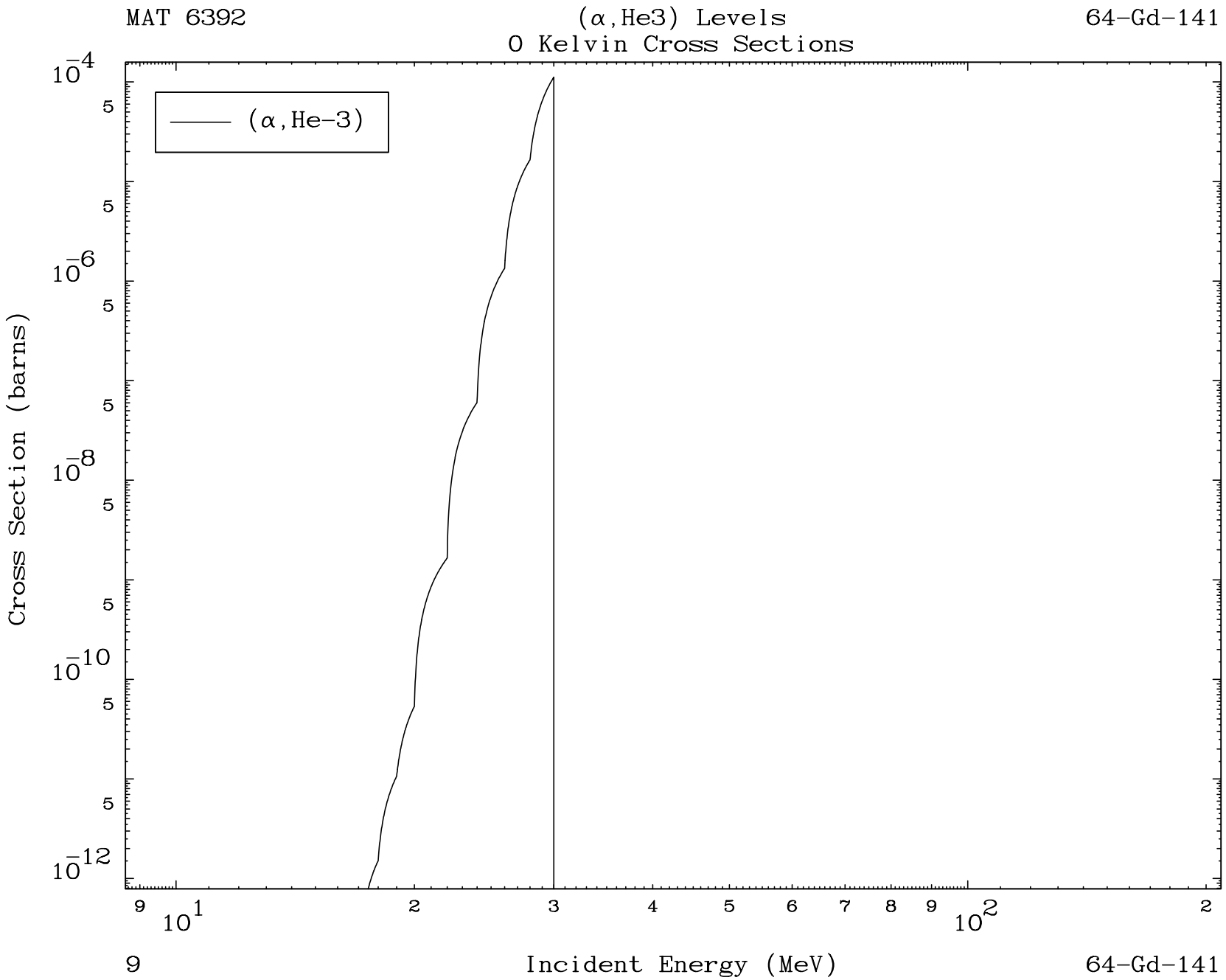

MAT 6392
α Charged Particle
0 Kelvin Cross Sections
64-Gd-141
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
(α,p) t
Cross Section (barns)
Incident Energy (MeV)
4
64-Gd-141

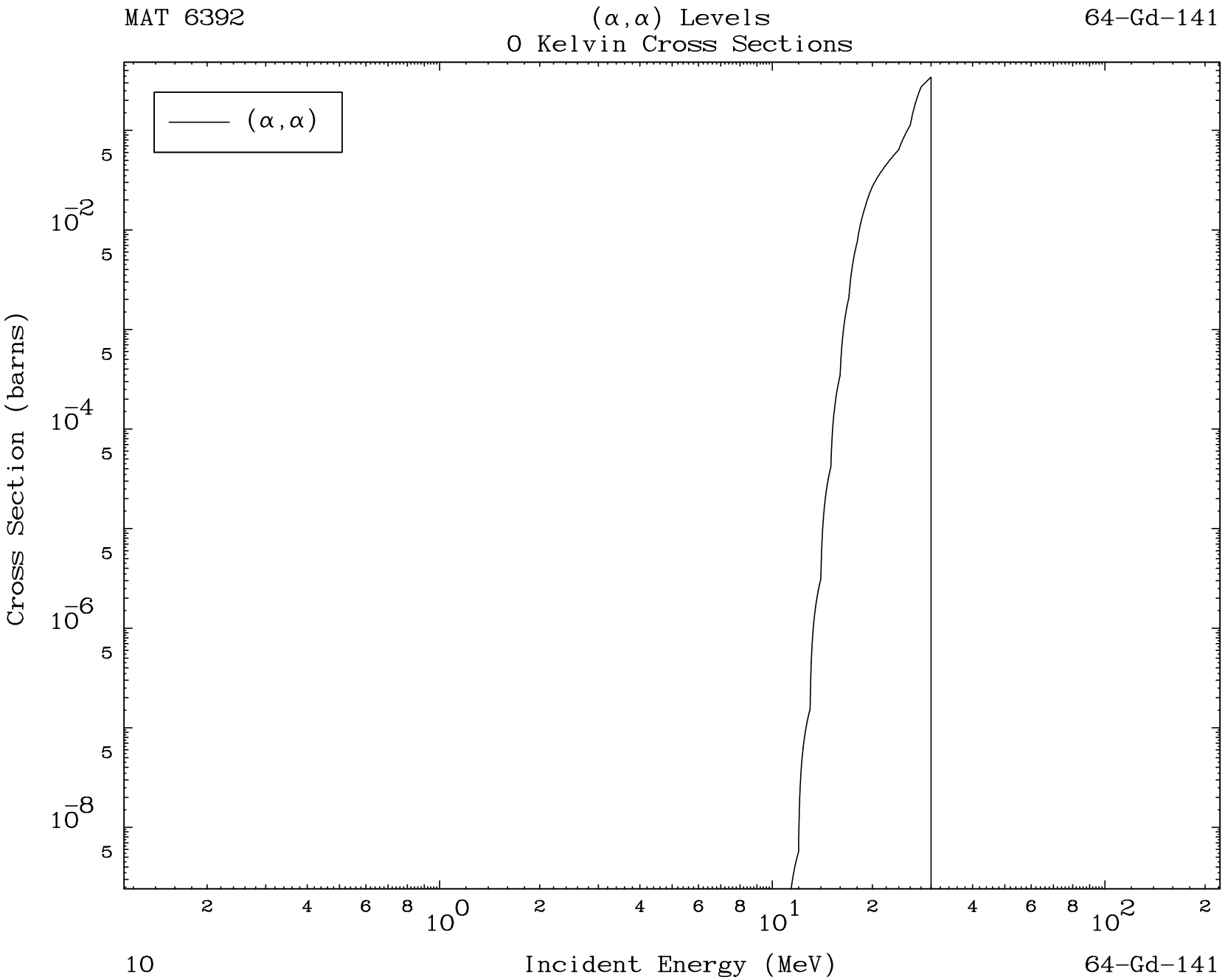

MAT 6392
(α,n') Level
64-Gd-141
0 Kelvin Cross Sections
Cross Section (barns)
5
10-2
5
10-3
5
10-4
5
10-5
5
α Inelastic
2
3
4
5
6
7
8
9
10^2
2
5
Incident Energy (MeV)
64-Gd-141

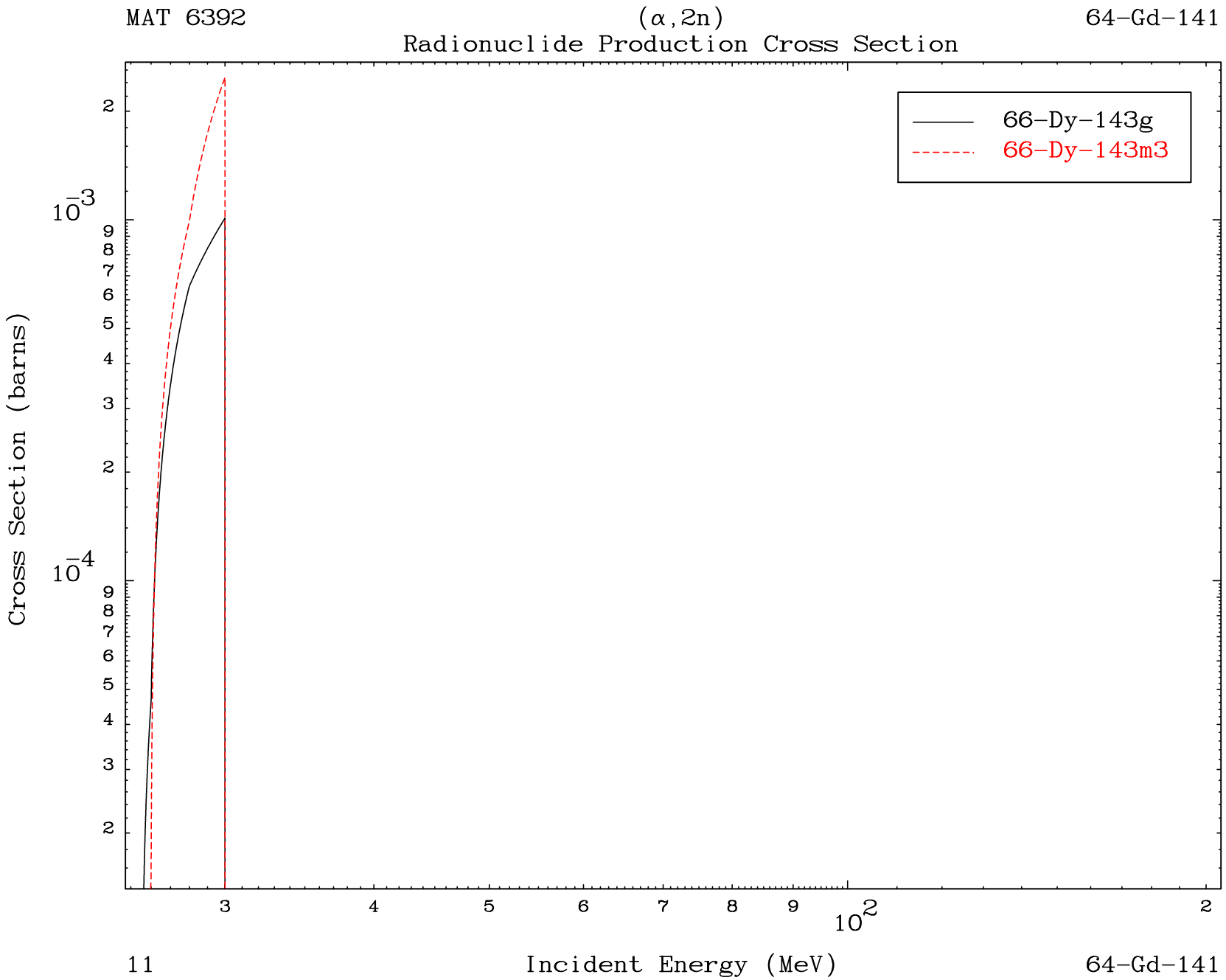

MAT 6392
(α,p) Levels
64-Gd-141
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
64-Gd-141

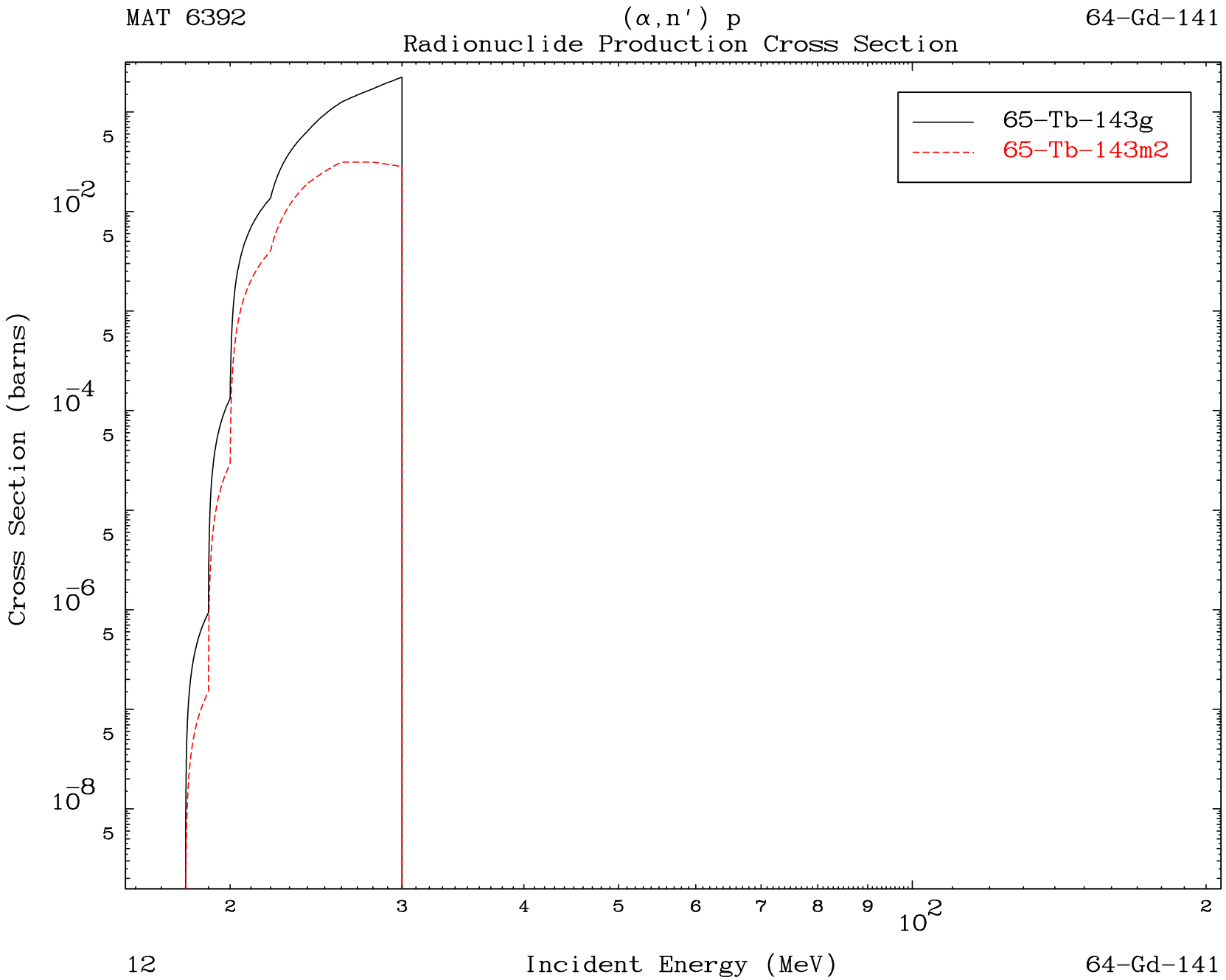

MAT 6392
(α,d) Levels
64-Gd-141
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
64-Gd-141

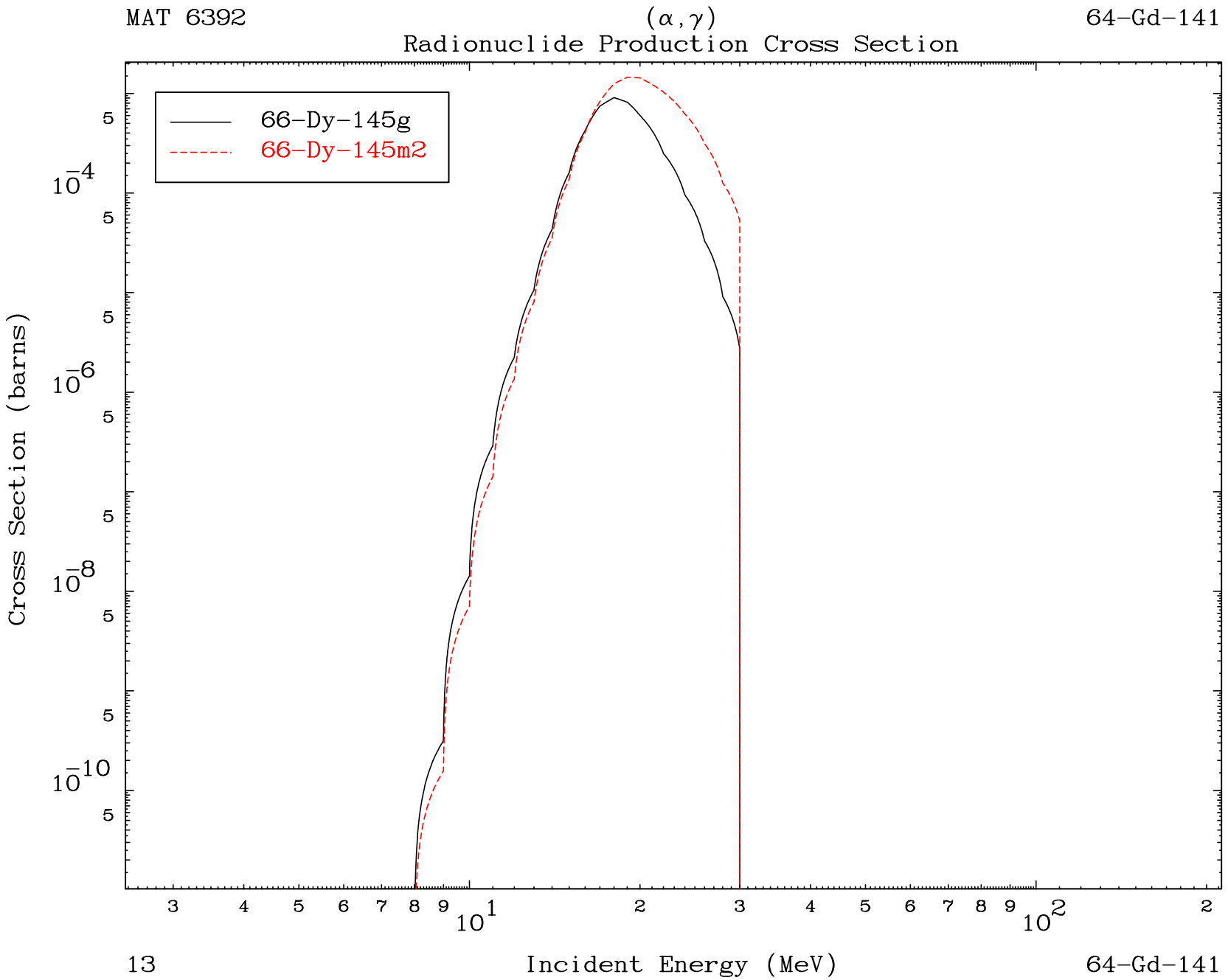

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
5
10^-6
5
10^-8
5
10^-10
5
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

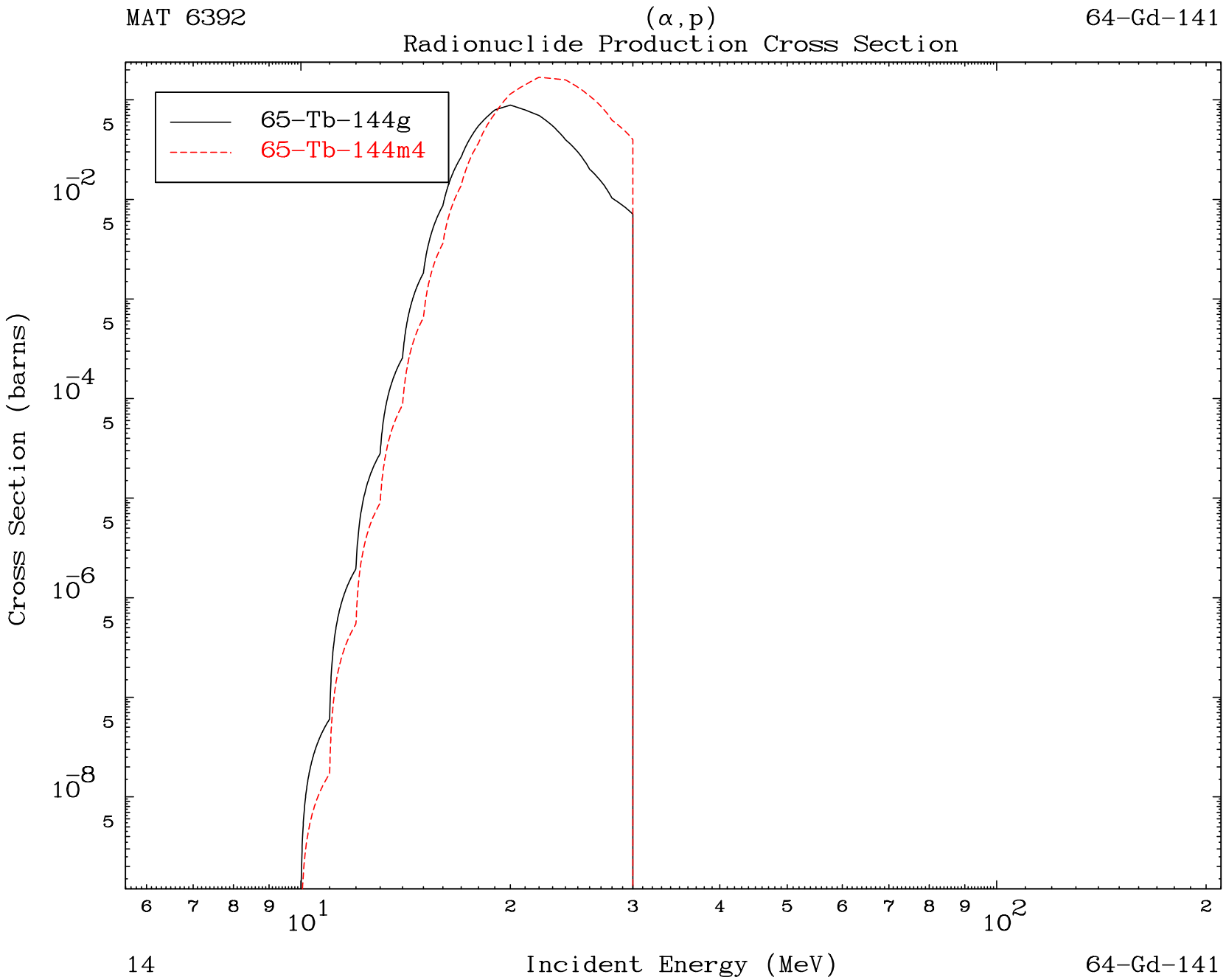

MAT 6392
(α,He3) Levels
64-Gd-141
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
64-Gd-141

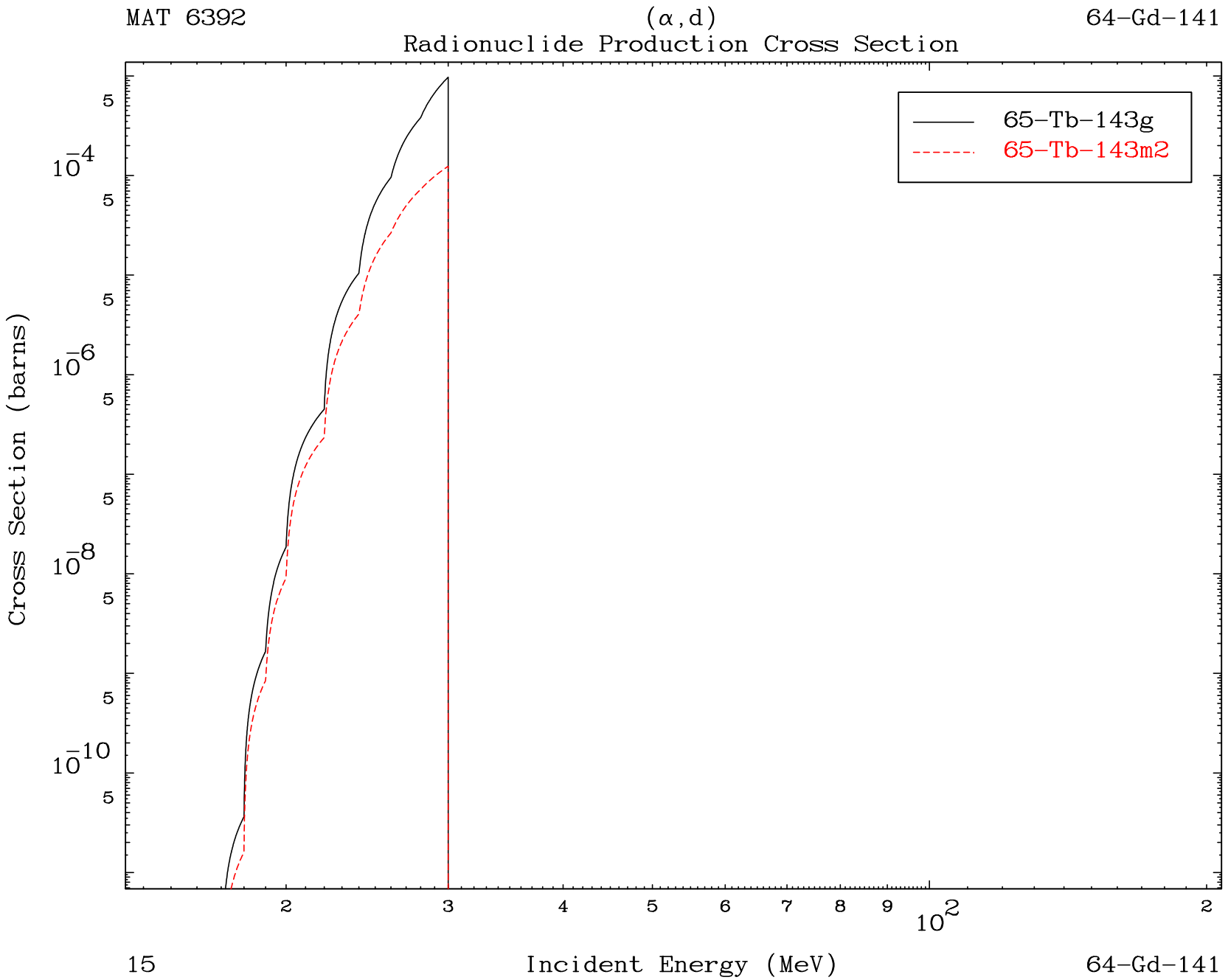

MAT 6392
(α,α) Levels
64-Gd-141
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
64-Gd-141

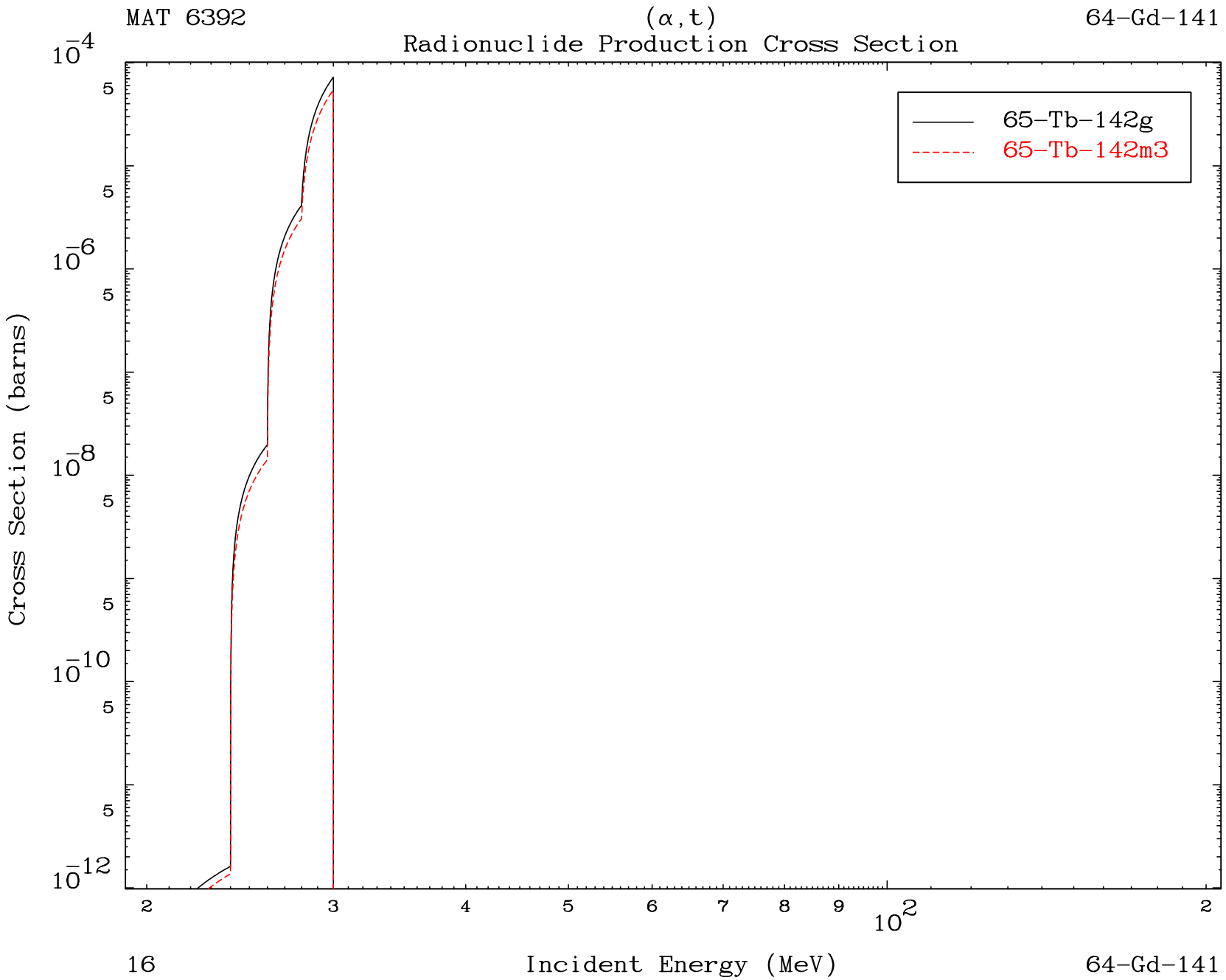

MAT 6392
(α,2n)
64-Gd-141
Radionuclide Production Cross Section
66-Dy-143g
66-Dy-143m3
Cross Section (barns)
10-3
10-4
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
11
64-Gd-141

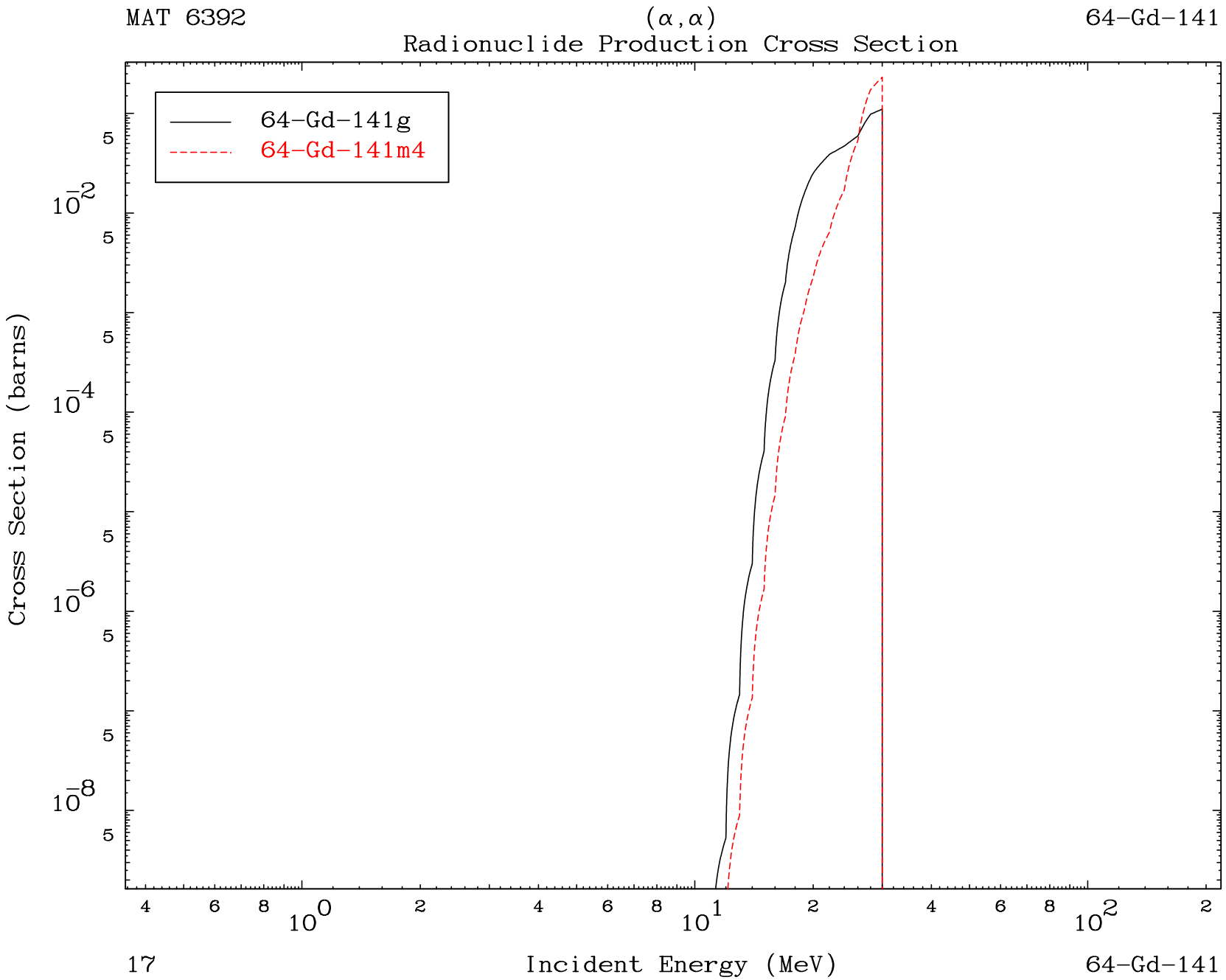

MAT 6392
(α,n') p
64-Gd-141
Radionuclide Production Cross Section
65-Tb-143g
65-Tb-143m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
64-Gd-141

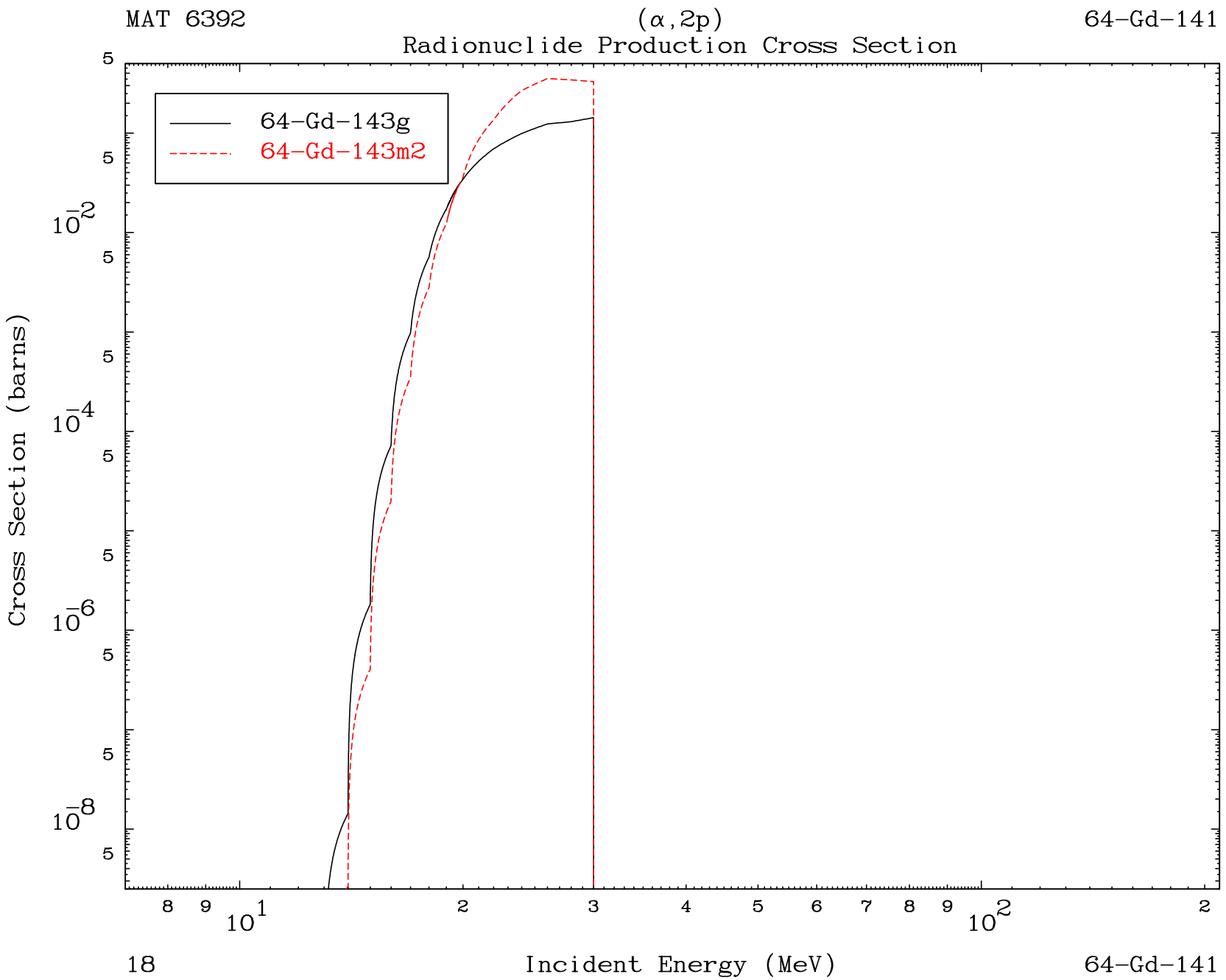

MAT 6392
(α,γ)
64-Gd-141
Radionuclide Production Cross Section
66-Dy-145g
66-Dy-145m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
13
64-Gd-141

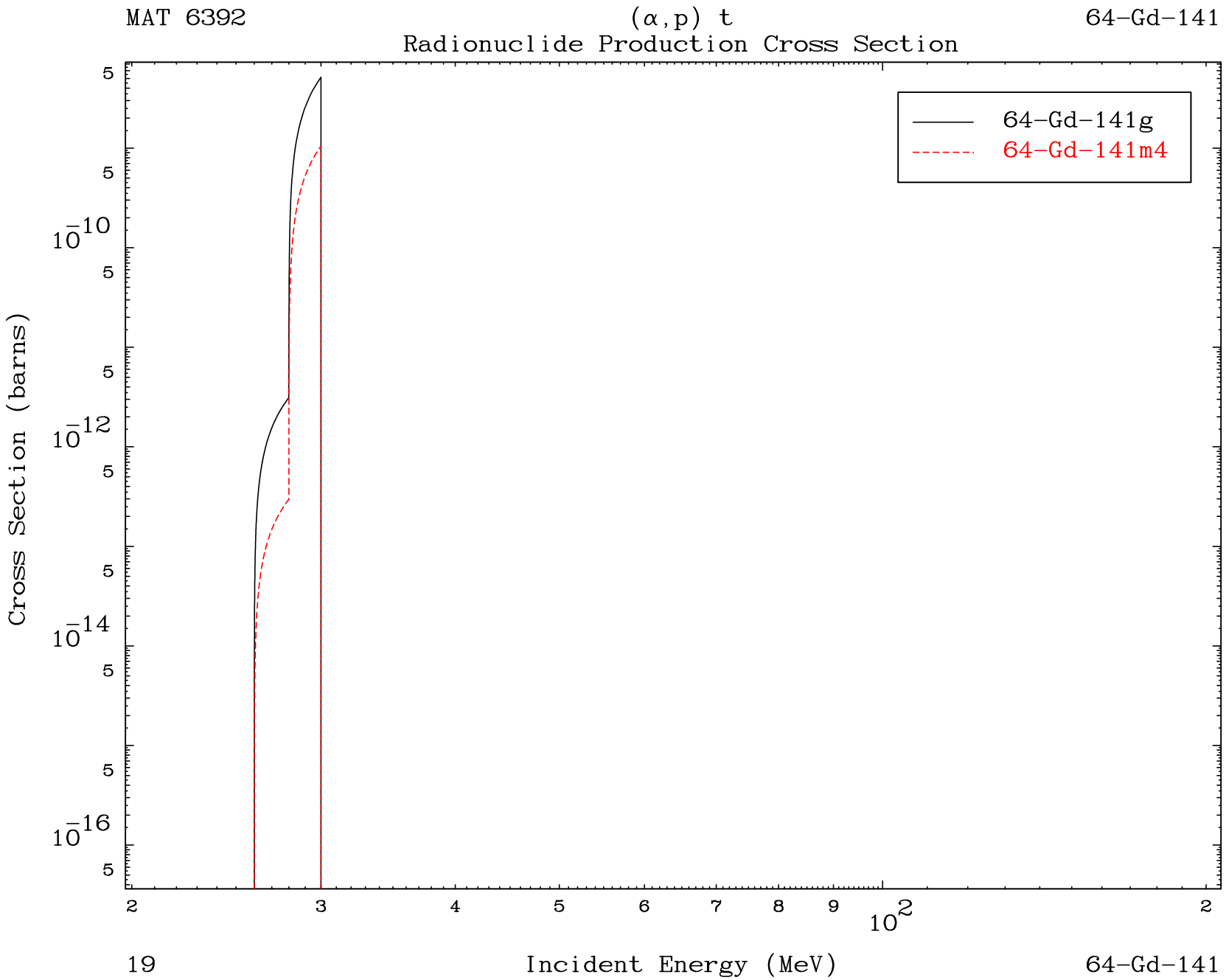

MAT 6392
(α,p)
64-Gd-141
Radionuclide Production Cross Section
65-Tb-144g
65-Tb-144m4
Cross Section (barns)
10-2
10-4
10-6
10-8
6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
14
Incident Energy (MeV)
64-Gd-141


MAT 6392
(α,d)
64-Gd-141
Radionuclide Production Cross Section
65-Tb-143g
65-Tb-143m2
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
15
64-Gd-141


MAT 6392
(α,t)
64-Gd-141
Radionuclide Production Cross Section
65-Tb-142g
65-Tb-142m3
Cross Section (barns)
Incident Energy (MeV)
64-Gd-141
16


MAT 6392
(α,α)
64-Gd-141
Radionuclide Production Cross Section
64-Gd-141g
64-Gd-141m4
Cross Section (barns)
Incident Energy (MeV)
17
64-Gd-141


MAT 6392
(α,2p)
64-Gd-141
Radionuclide Production Cross Section
64-Gd-143g
64-Gd-143m2
Cross Section (barns)
Incident Energy (MeV)
18
64-Gd-141


MAT 6392
(α,p) t
64-Gd-141
Radionuclide Production Cross Section
64-Gd-141g
64-Gd-141m4
Cross Section (barns)
Incident Energy (MeV)
19
64-Gd-141