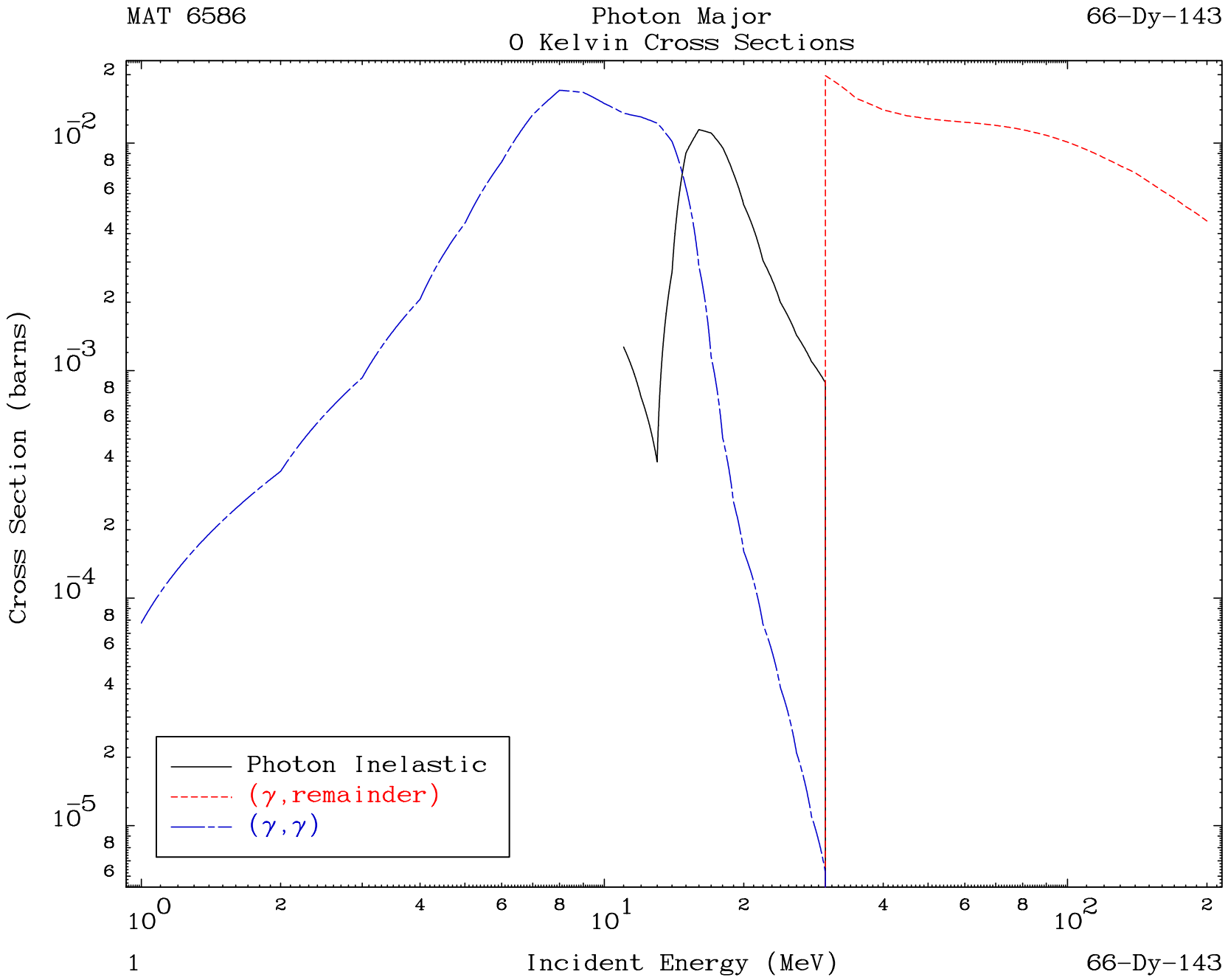
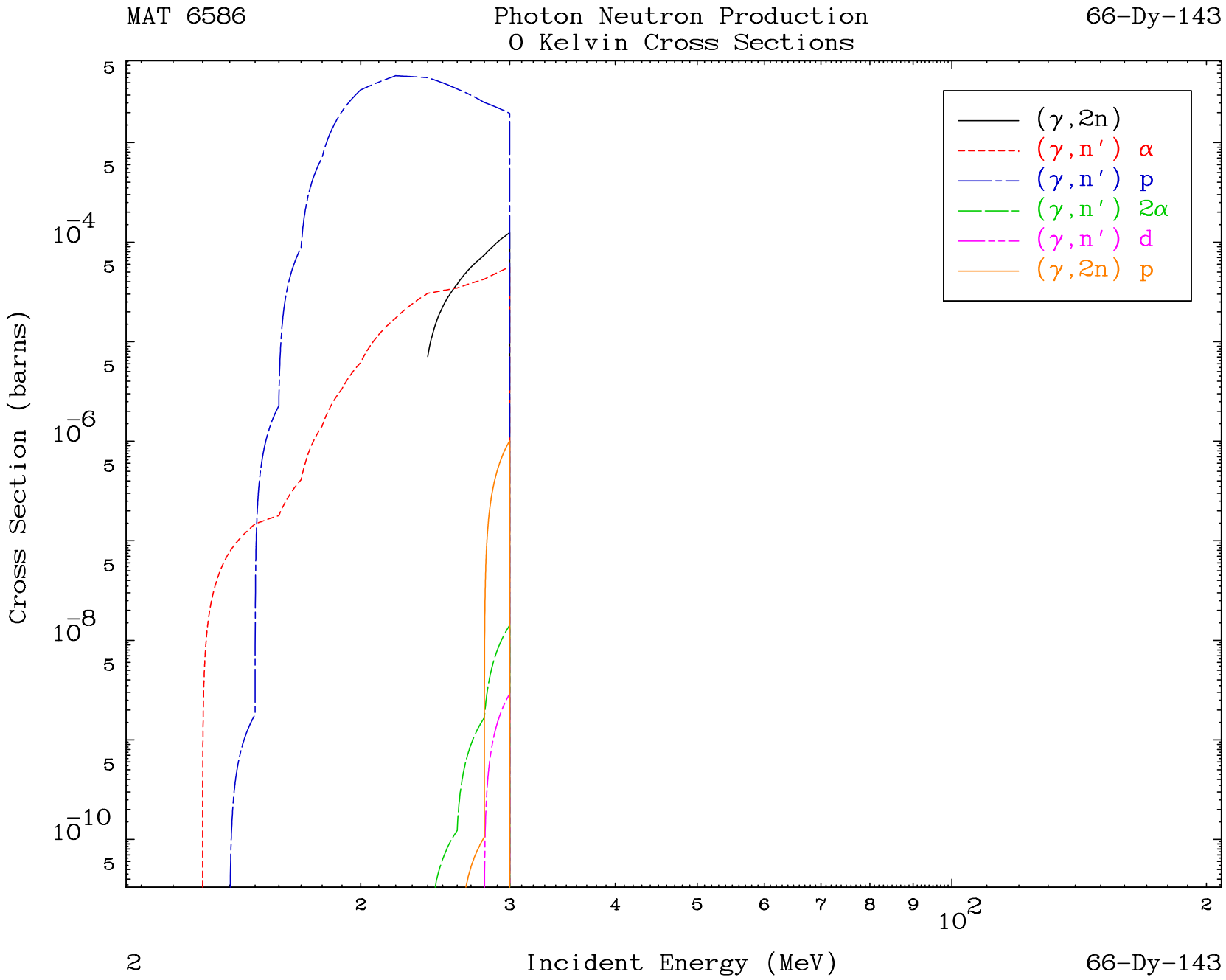
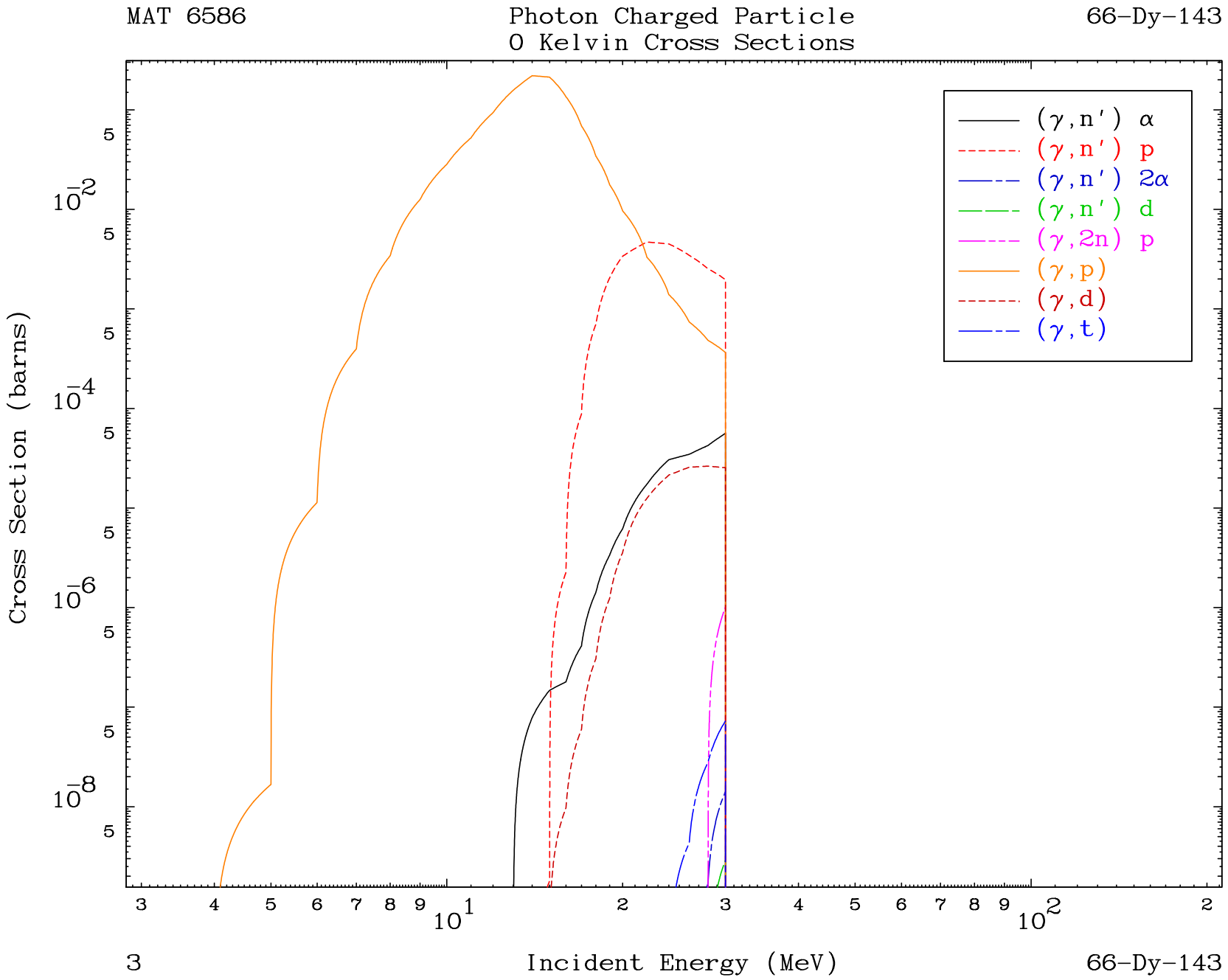
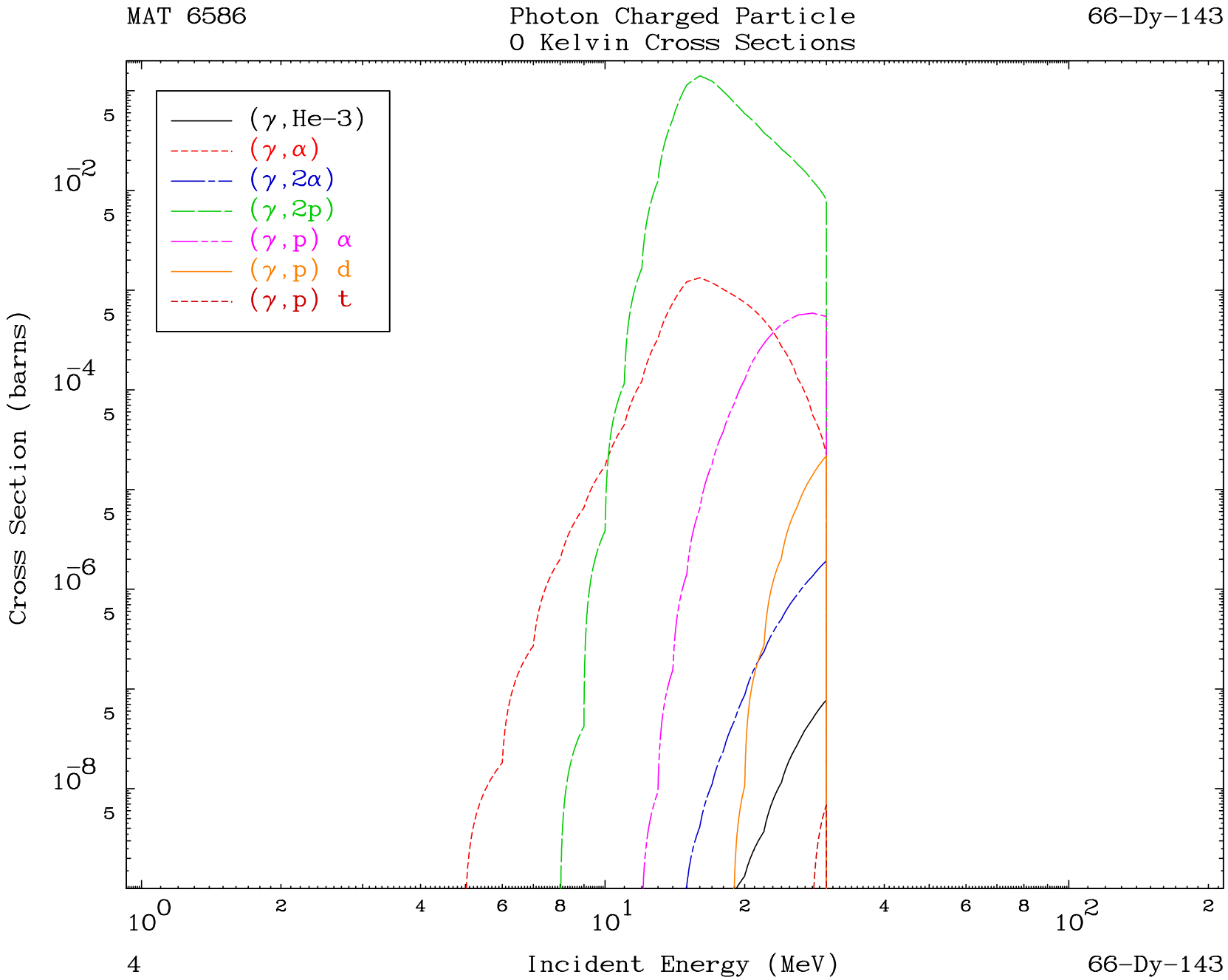
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

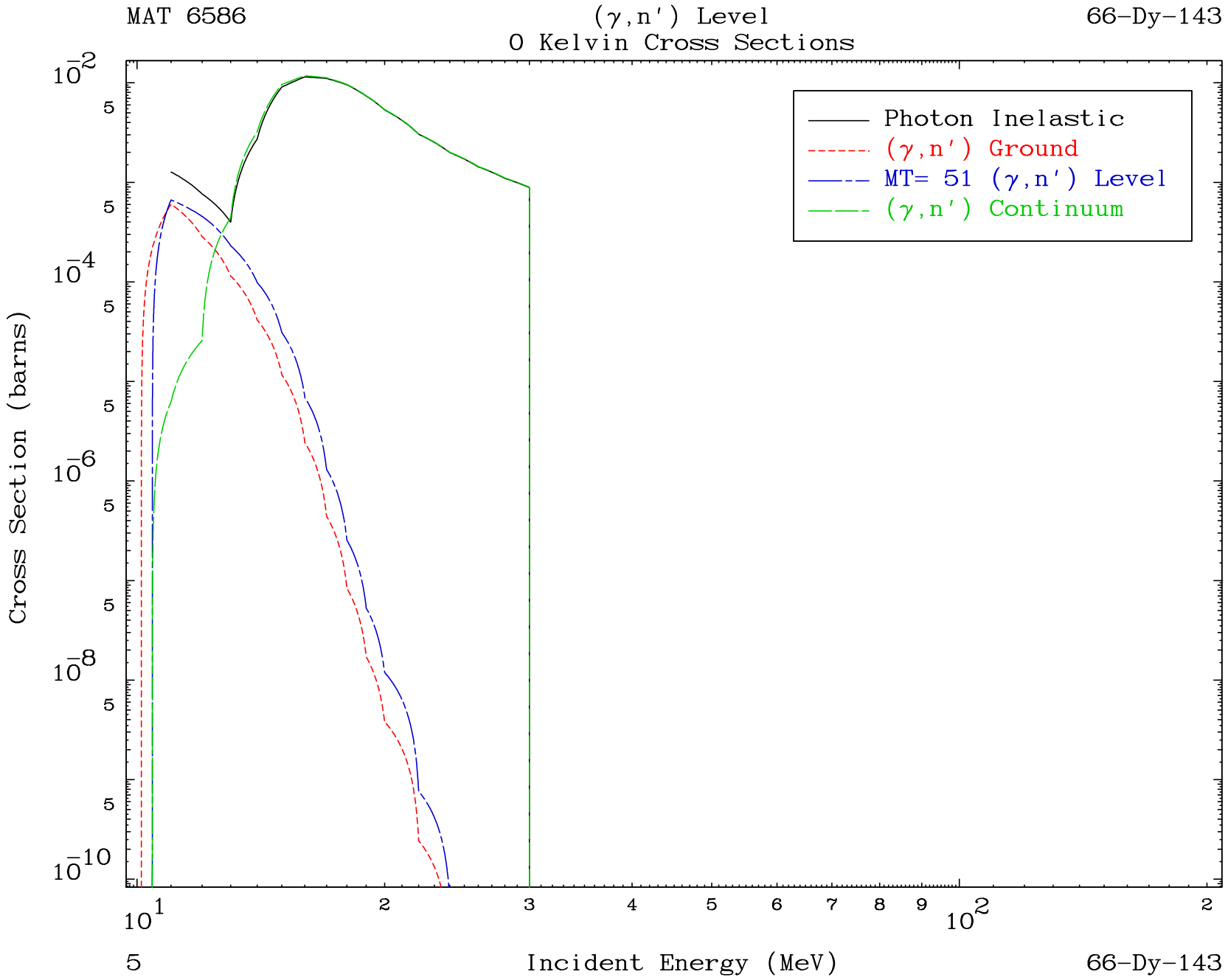
Press Mouse Button to Start

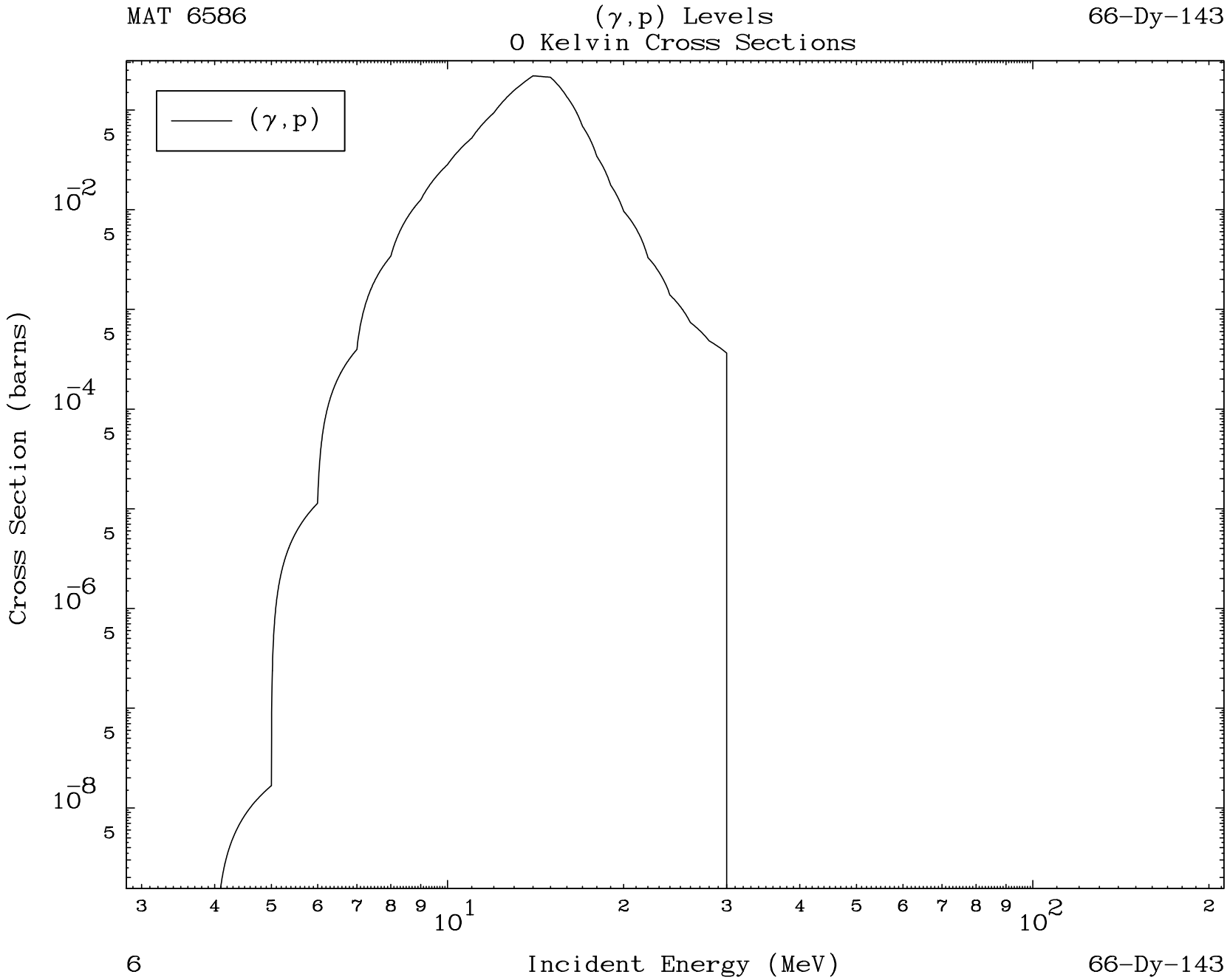

MAT 6586
Photon Major
66-Dy-143
0 Kelvin Cross Sections
Cross Section (barns)
Photon Inelastic
(γ,remainder)
(γ,γ)
Incident Energy (MeV)
66-Dy-143

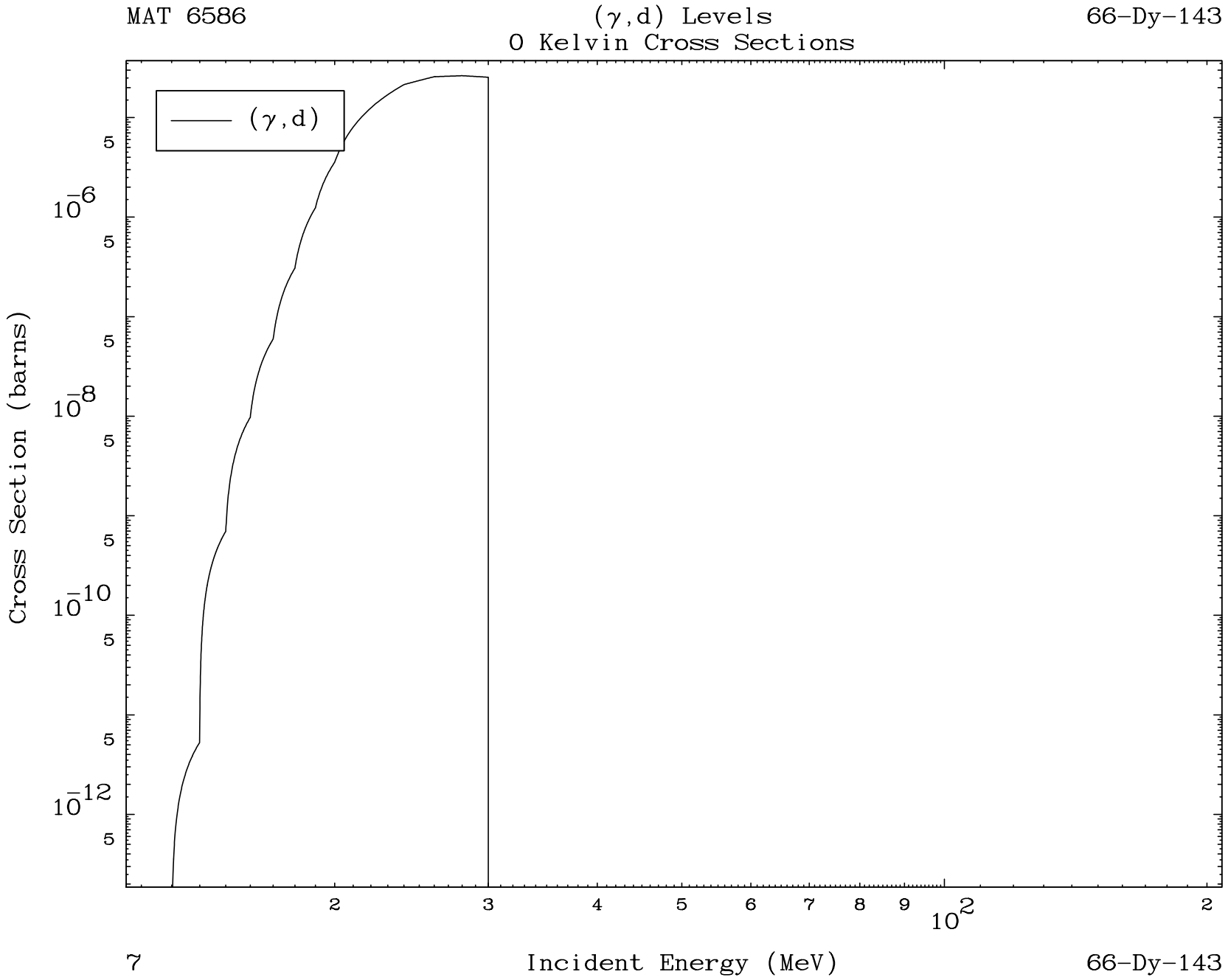

MAT 6586
Photon Neutron Production
0 Kelvin Cross Sections
66-Dy-143
(γ,2n)
(γ,n') α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
66-Dy-143

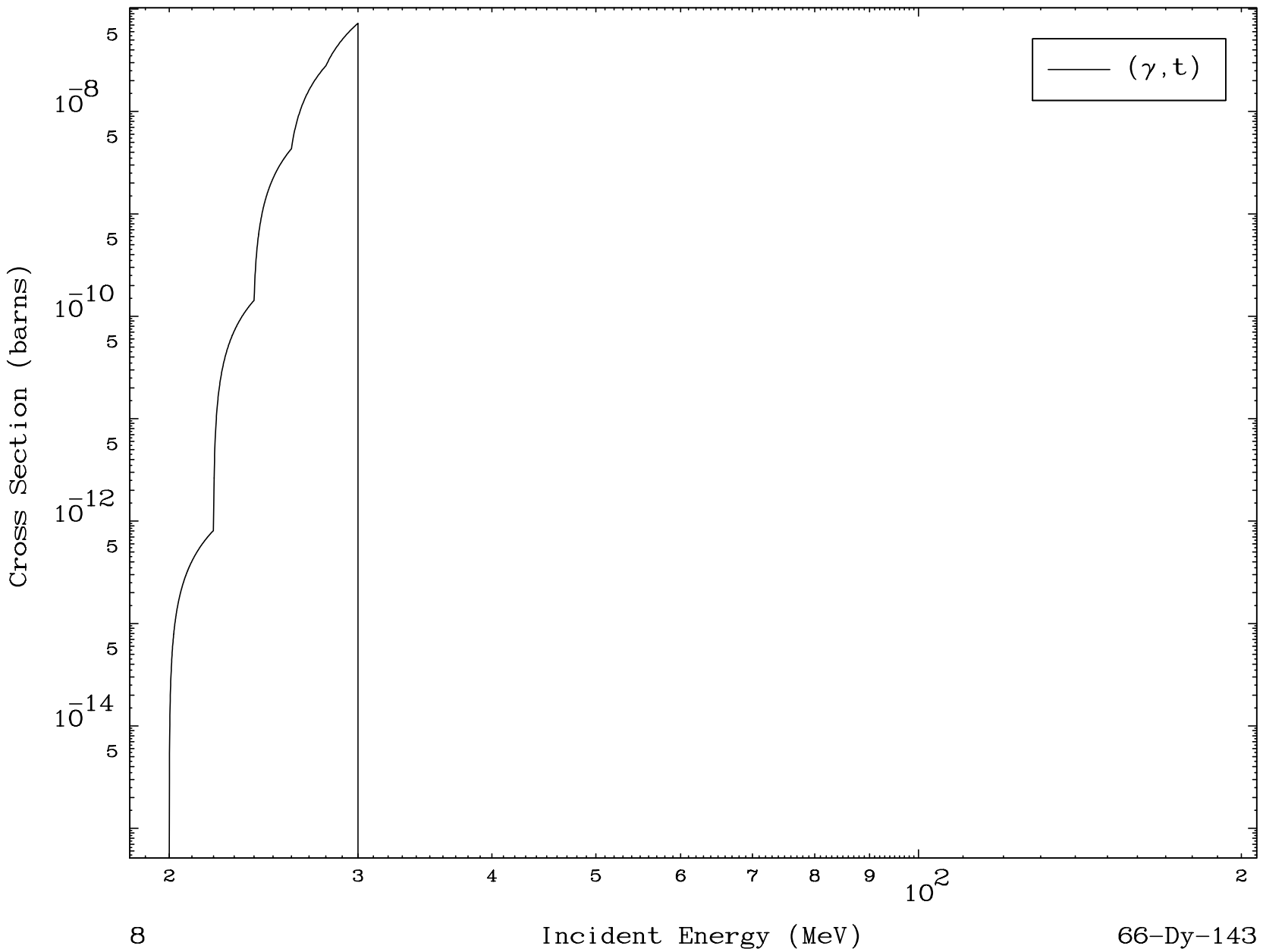

MAT 6586
Photon Charged Particle
0 Kelvin Cross Sections
66-Dy-143
Cross Section (barns)
Incident Energy (MeV)
66-Dy-143
3
(γ,n') α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p
(γ,p)
(γ,d)
(γ,t)

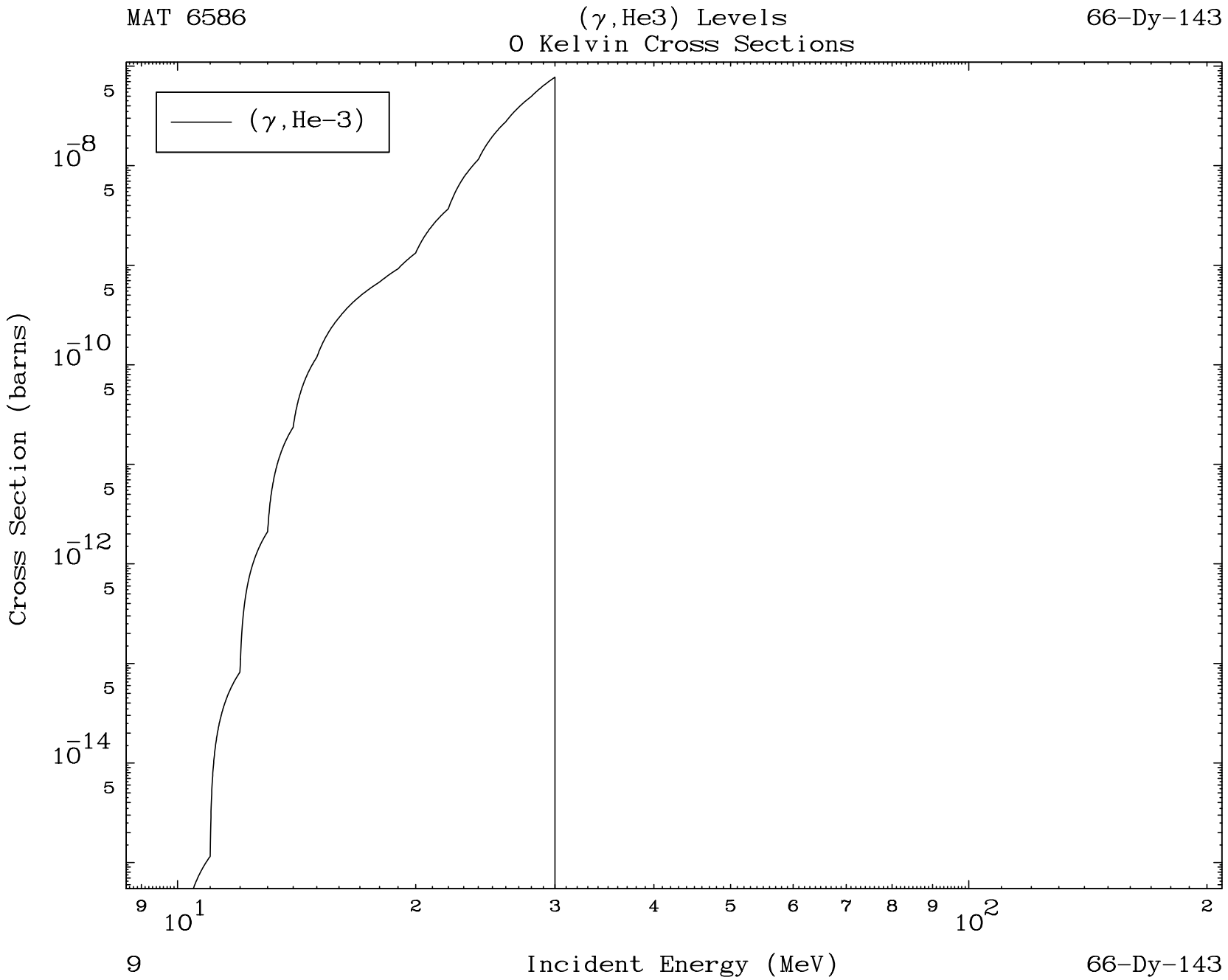

MAT 6586
Photon Charged Particle
0 Kelvin Cross Sections
66-Dy-143
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
(γ,p) t
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
66-Dy-143
4

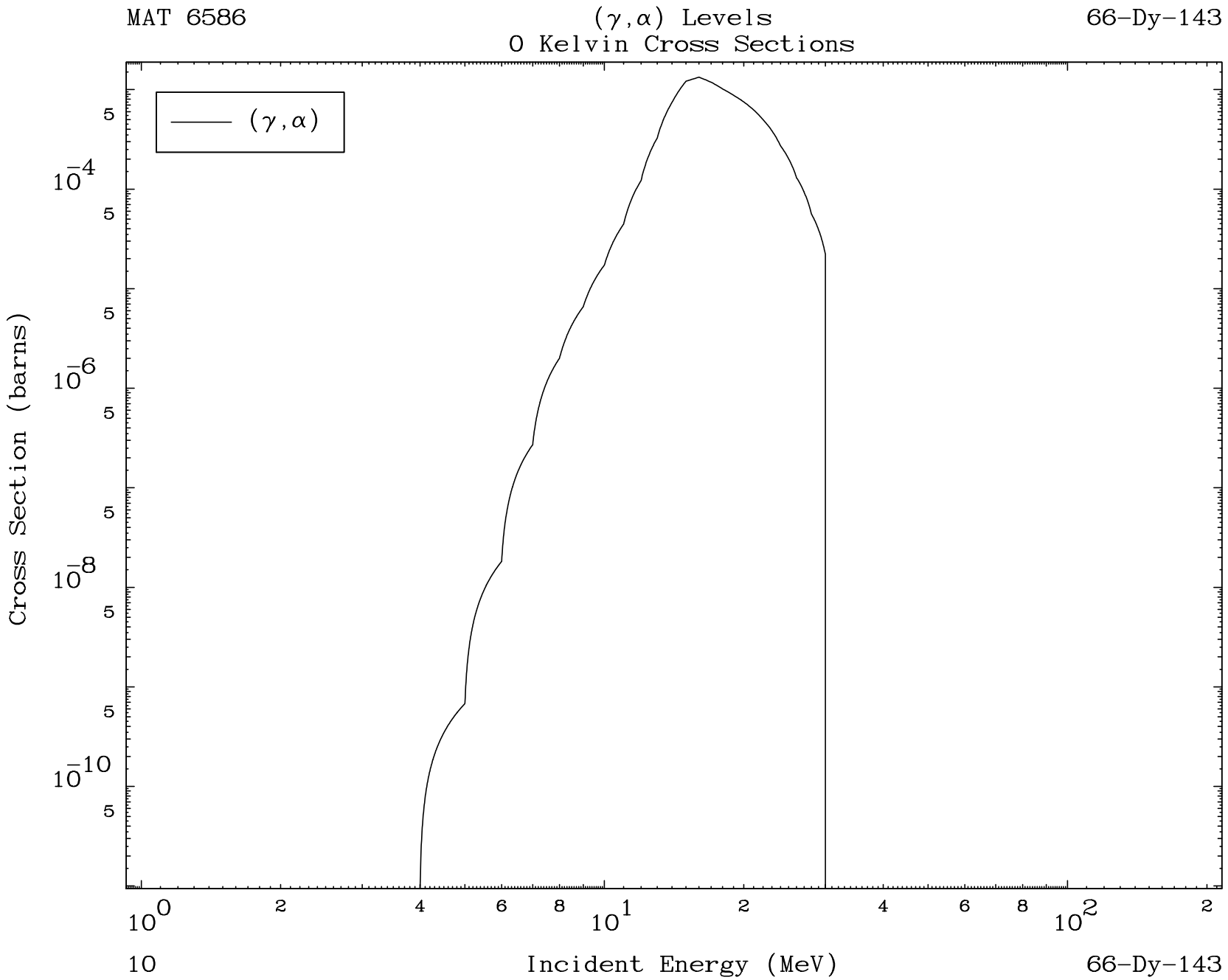

MAT 6586
(γ,n') Level
66-Dy-143
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
66-Dy-143

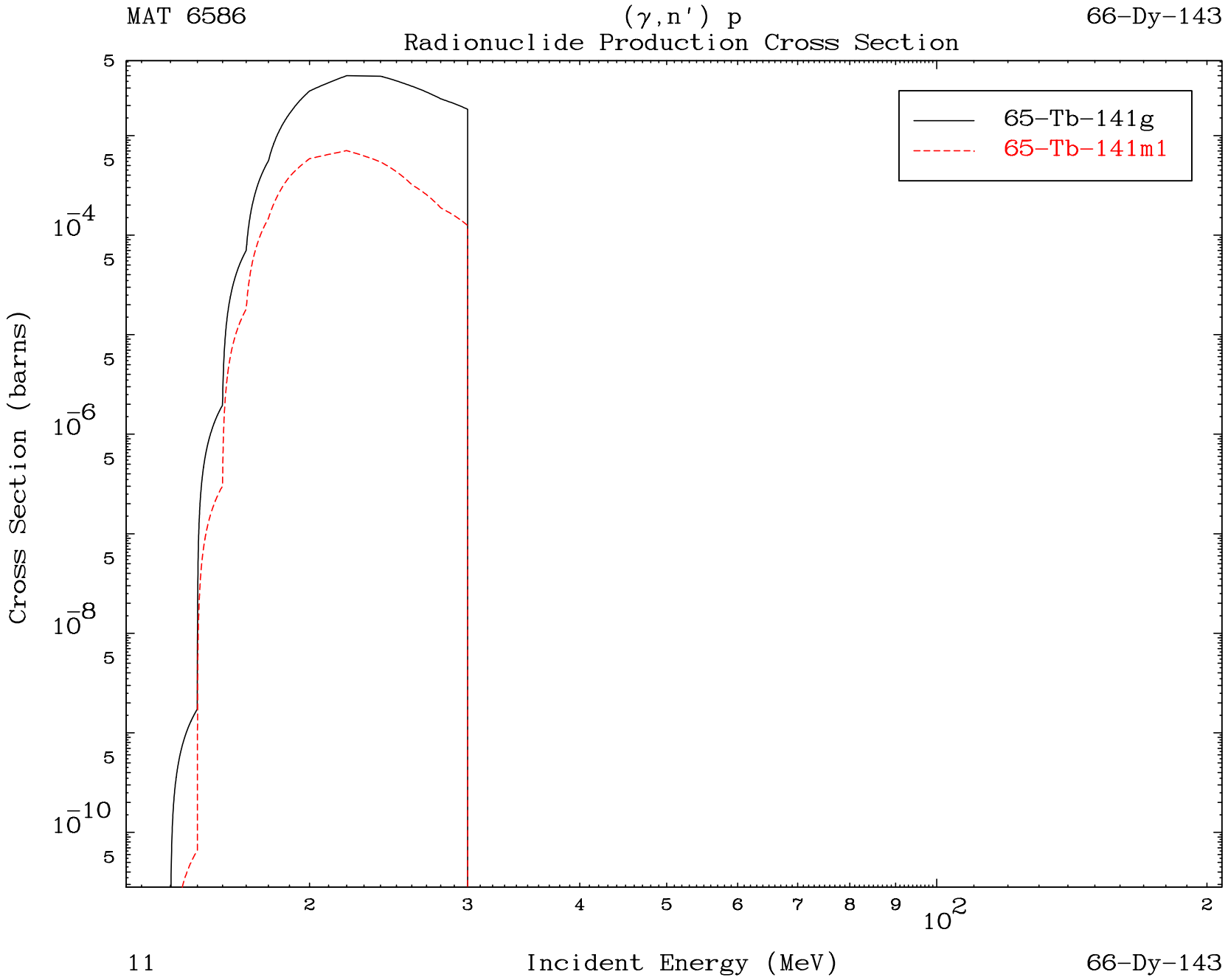

MAT 6586
(γ,p) Levels
66-Dy-143
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
66-Dy-143

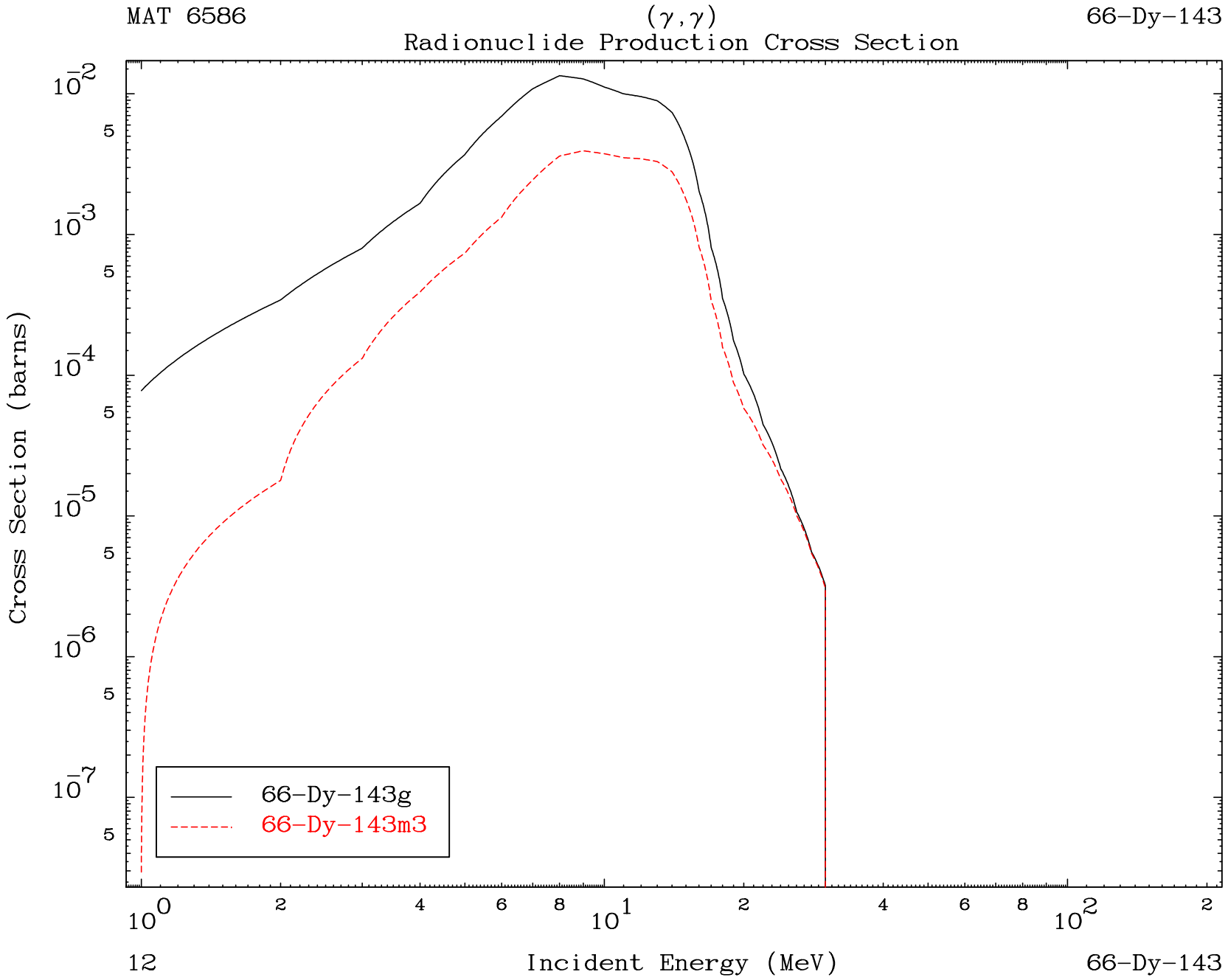

MAT 6586
(γ,d) Levels
66-Dy-143
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
66-Dy-143

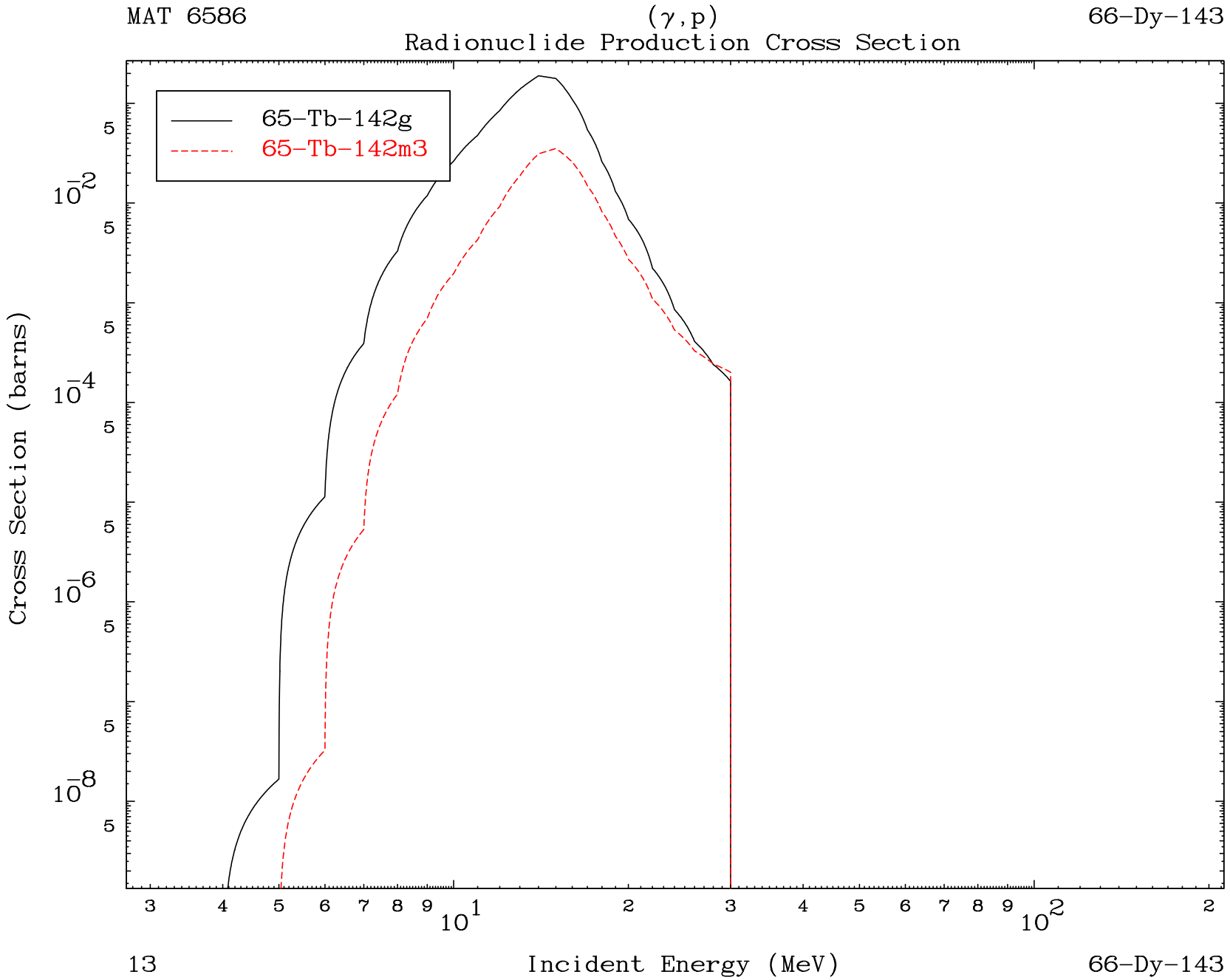

0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

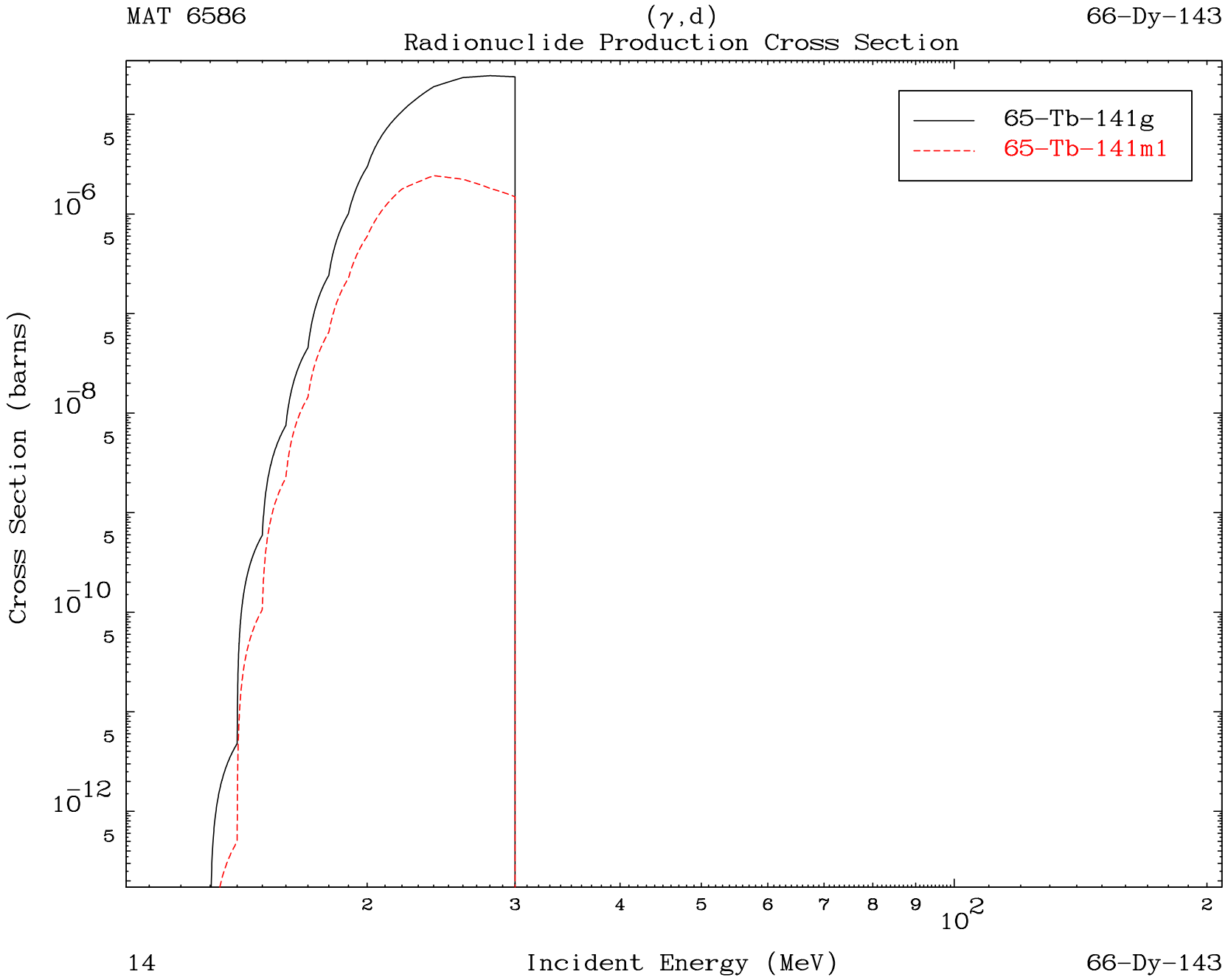

MAT 6586
(γ,He3) Levels
66-Dy-143
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
Incident Energy (MeV)
10 1
10 2
66-Dy-143

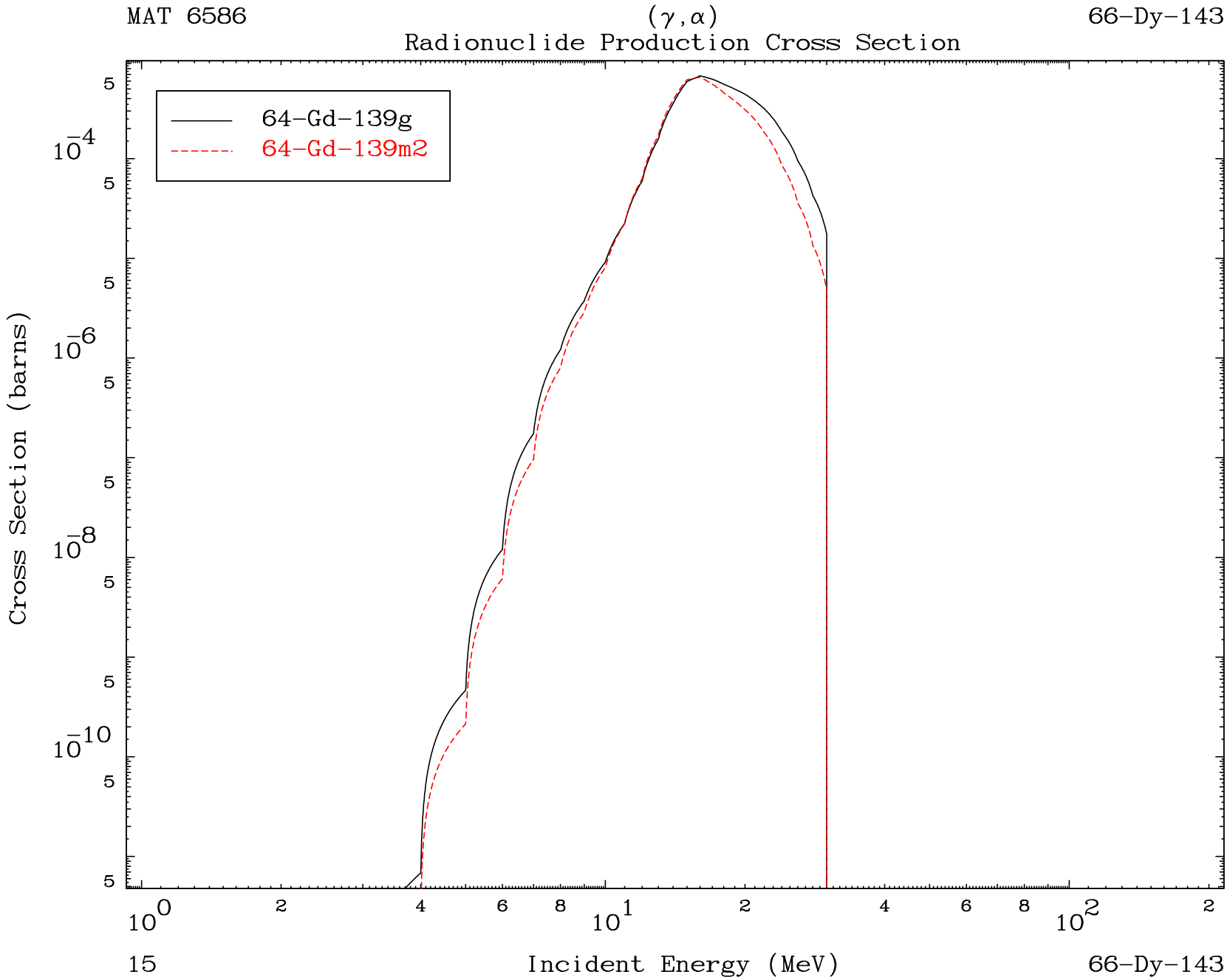

MAT 6586
(γ,α) Levels
66-Dy-143
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
66-Dy-143

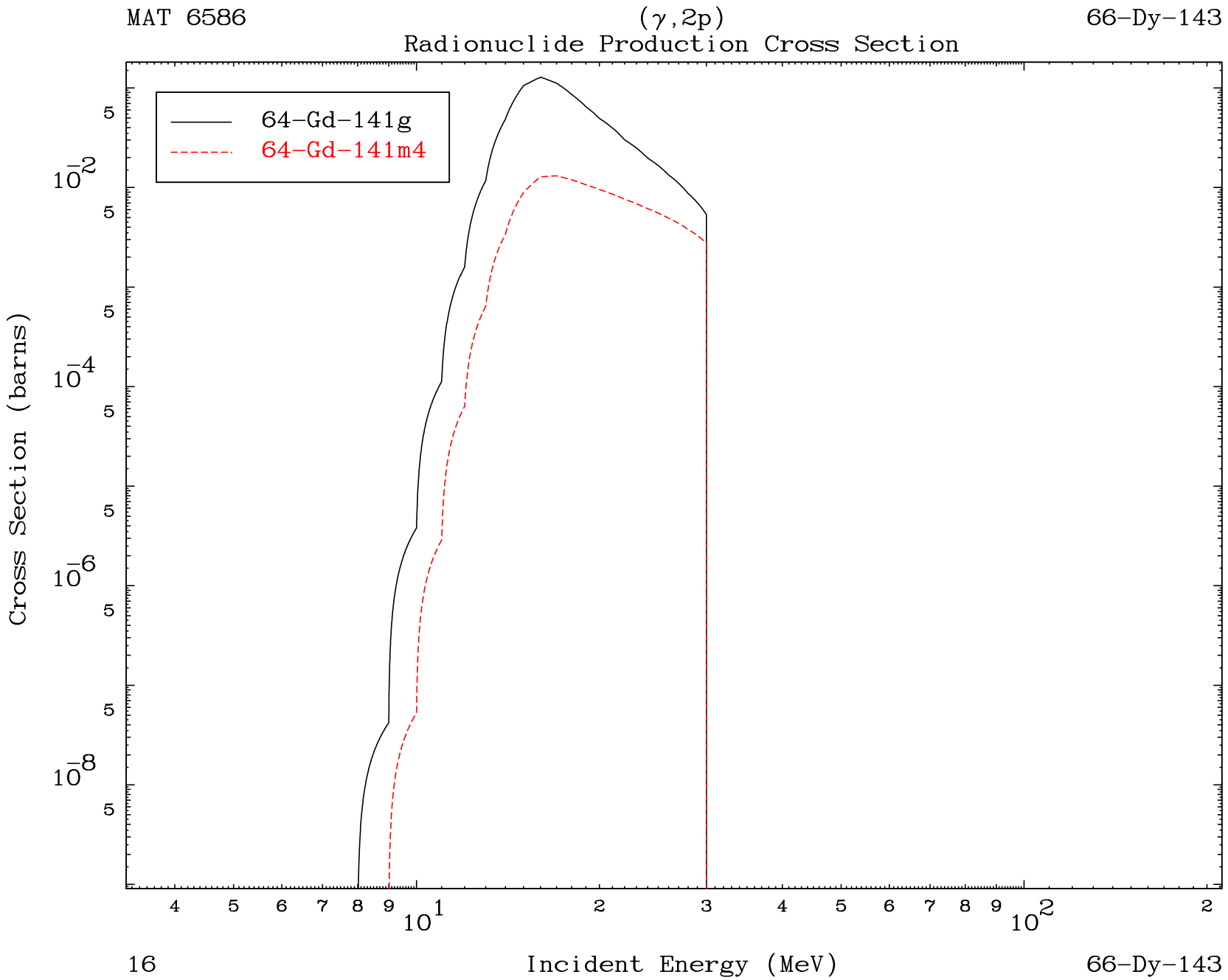

MAT 6586
(γ,n') p
66-Dy-143
Radionuclide Production Cross Section
65-Tb-141g
65-Tb-141m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
11
Incident Energy (MeV)
66-Dy-143

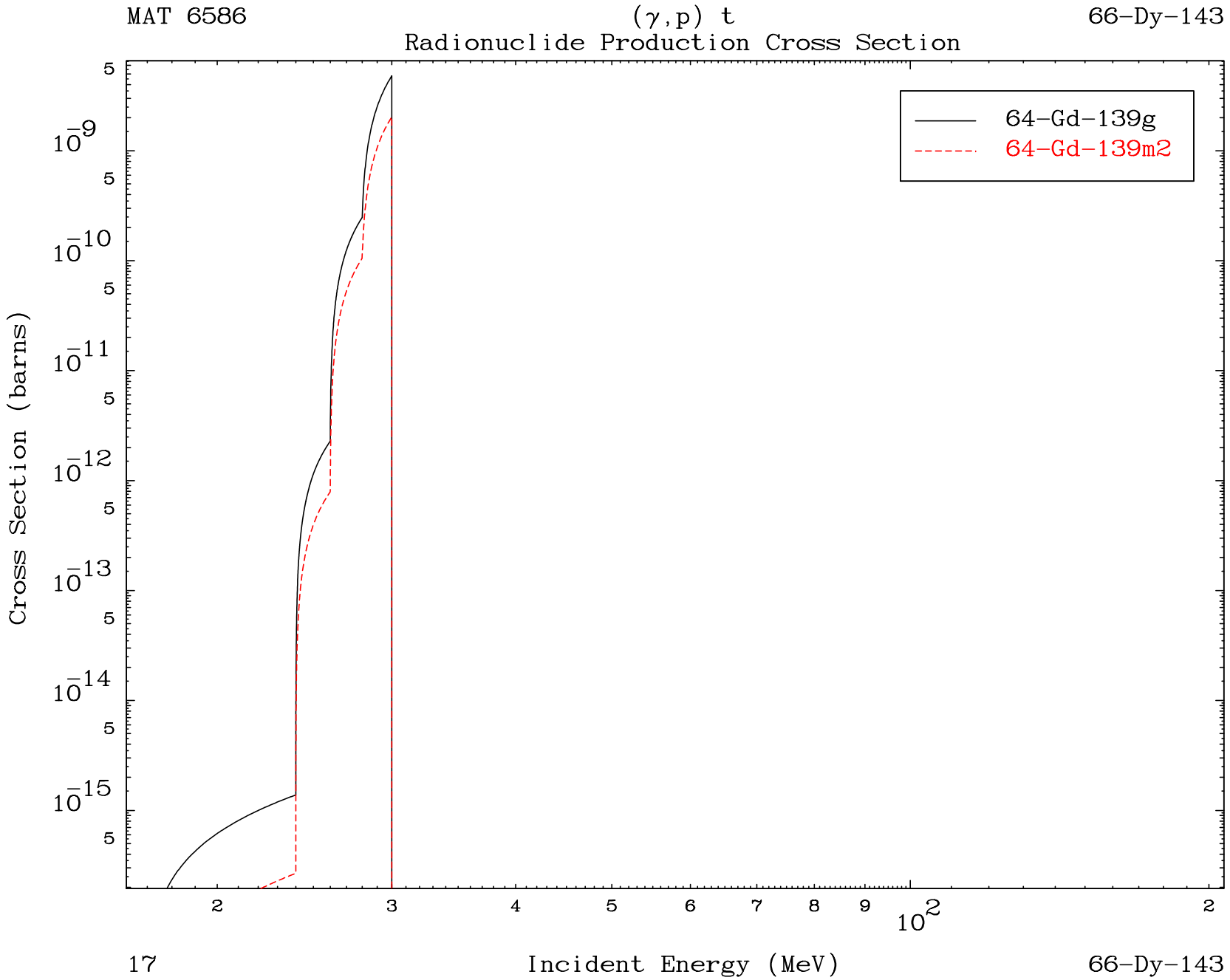

MAT 6586
(γ,γ)
66-Dy-143
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-3
10-4
10-5
10-6
10-7
5
100
2
4
6
8
101
102
66-Dy-143g
66-Dy-143m3
12
Incident Energy (MeV)
66-Dy-143


MAT 6586
(γ,p)
66-Dy-143
Radionuclide Production Cross Section
65-Tb-142g
65-Tb-142m3
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
13
Incident Energy (MeV)
66-Dy-143


MAT 6586
(γ,d)
66-Dy-143
Radionuclide Production Cross Section
65-Tb-141g
65-Tb-141m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
66-Dy-143


MAT 6586
(γ,α)
66-Dy-143
Radionuclide Production Cross Section
64-Gd-139g
64-Gd-139m2
Cross Section (barns)
Incident Energy (MeV)
15
66-Dy-143


MAT 6586
(γ,2p)
66-Dy-143
Radionuclide Production Cross Section
64-Gd-141g
64-Gd-141m4
Cross Section (barns)
Incident Energy (MeV)
16
66-Dy-143


MAT 6586
(γ,p) t
66-Dy-143
Radionuclide Production Cross Section
64-Gd-139g
64-Gd-139m2
Cross Section (barns)
Incident Energy (MeV)
17
66-Dy-143