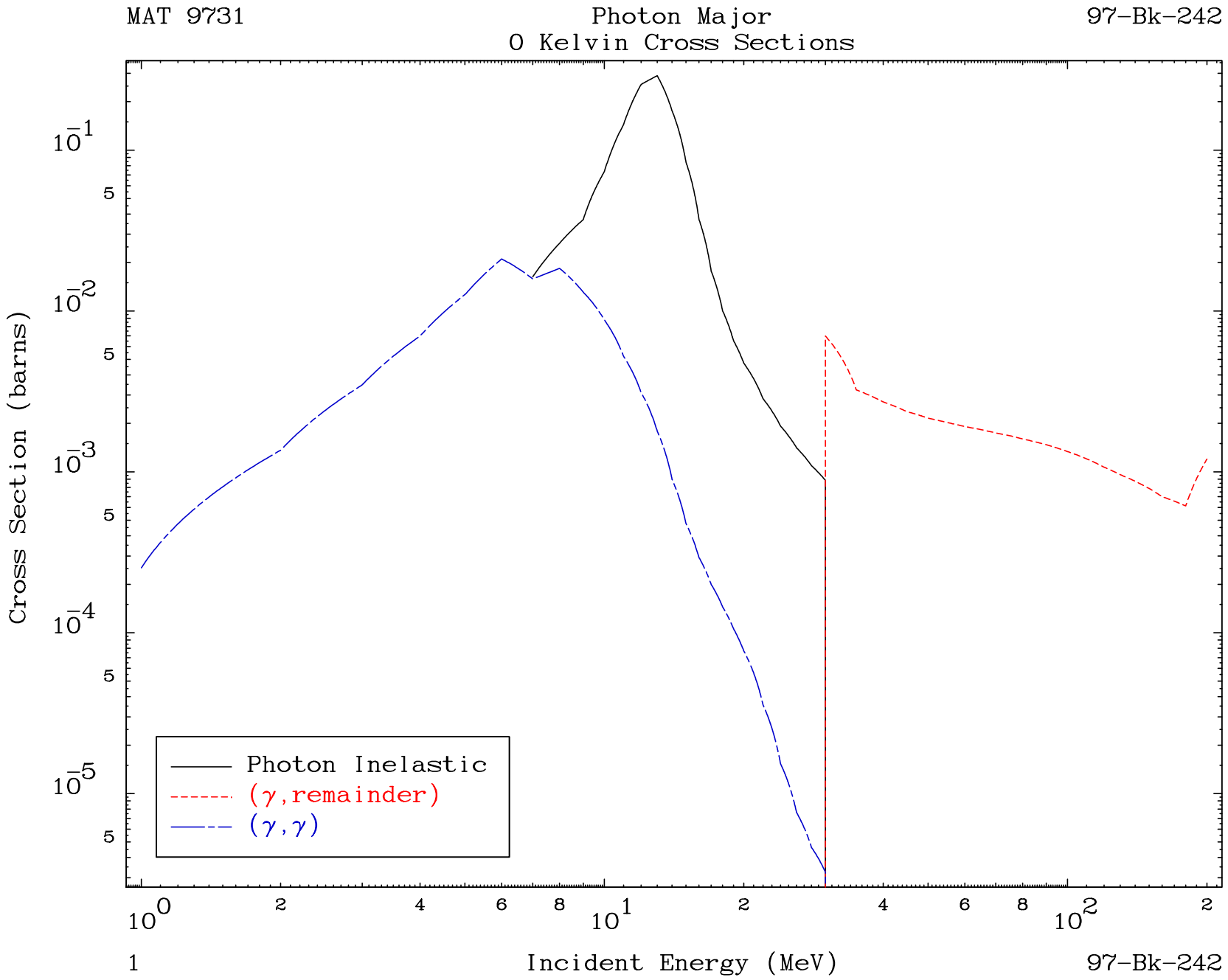
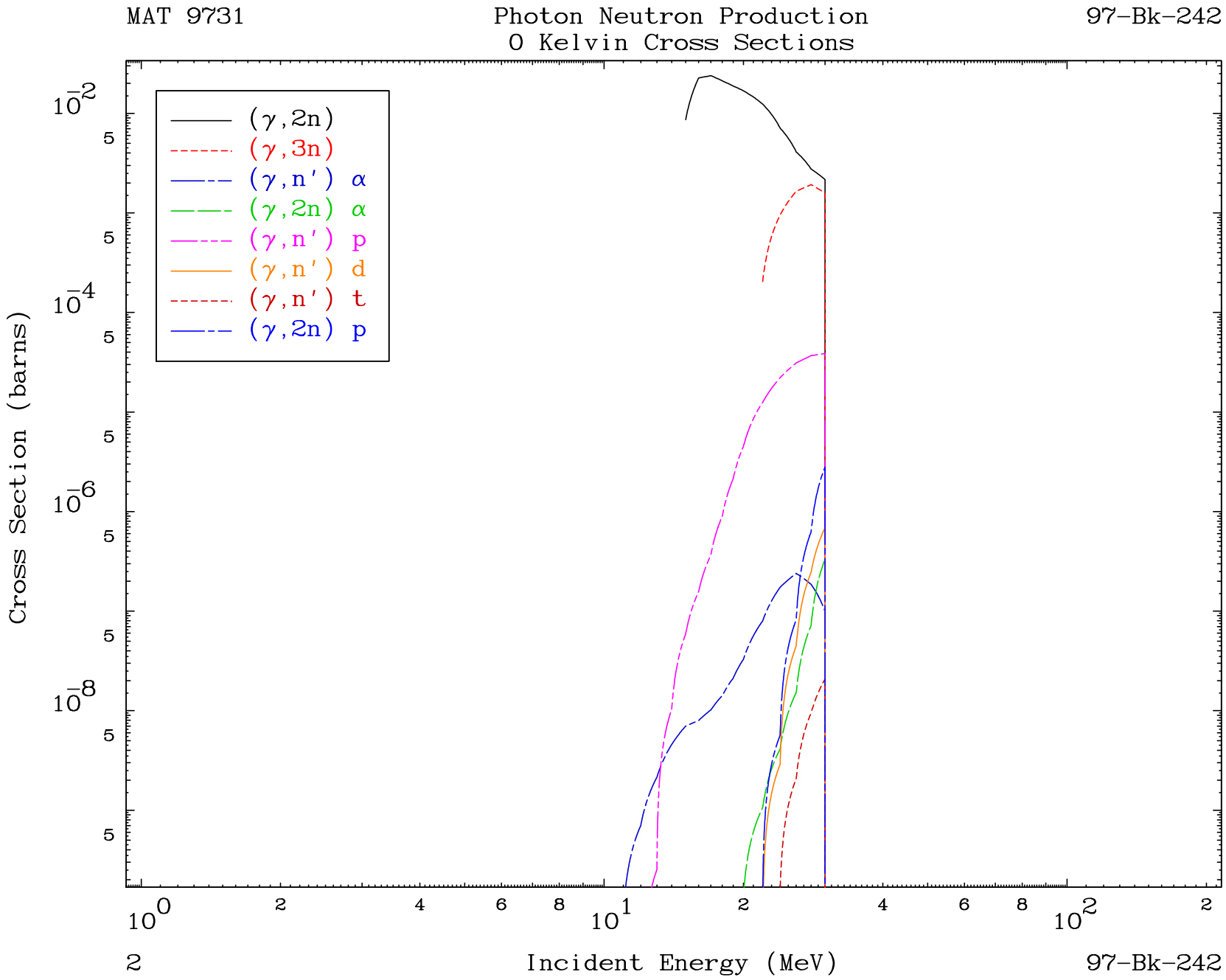
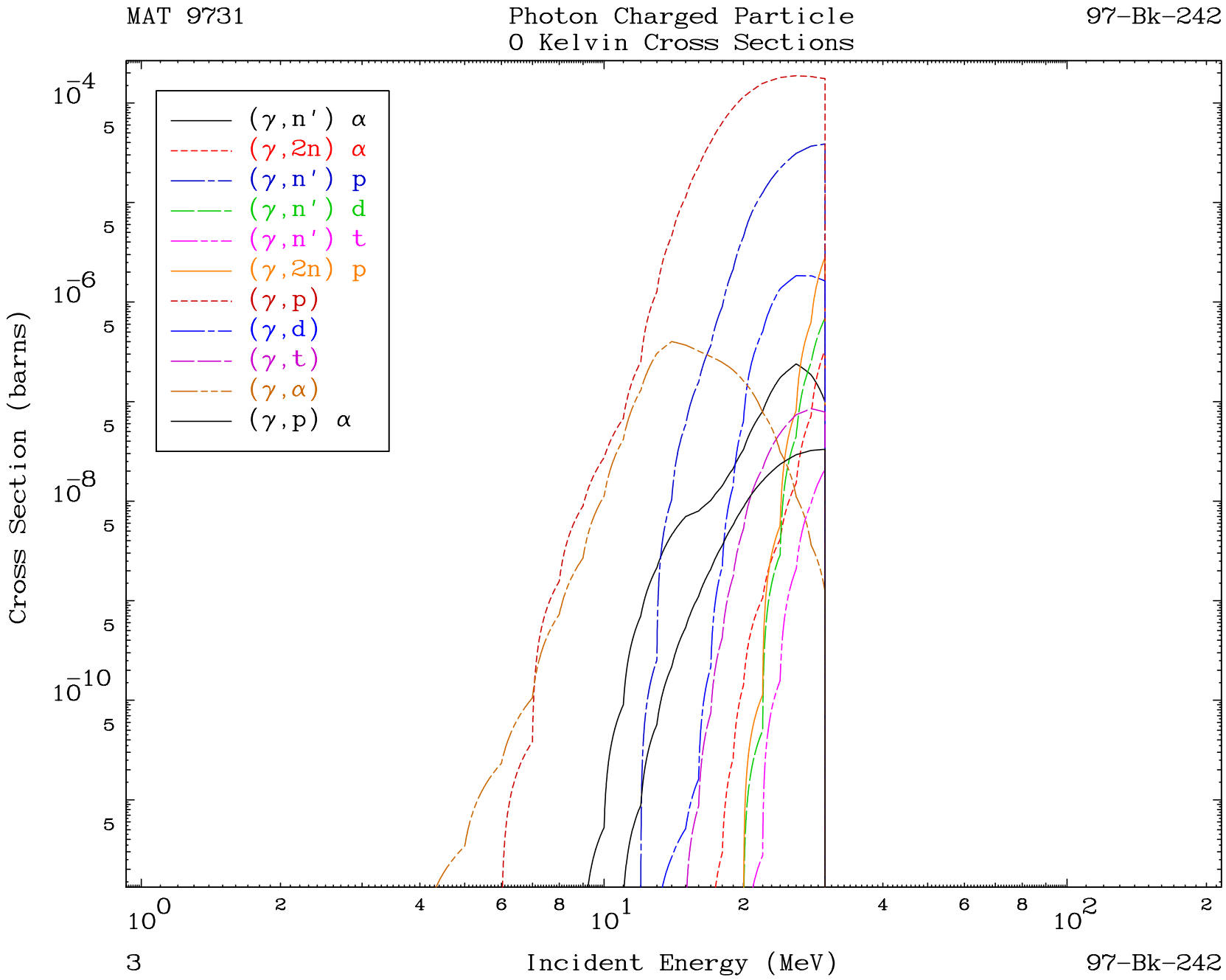
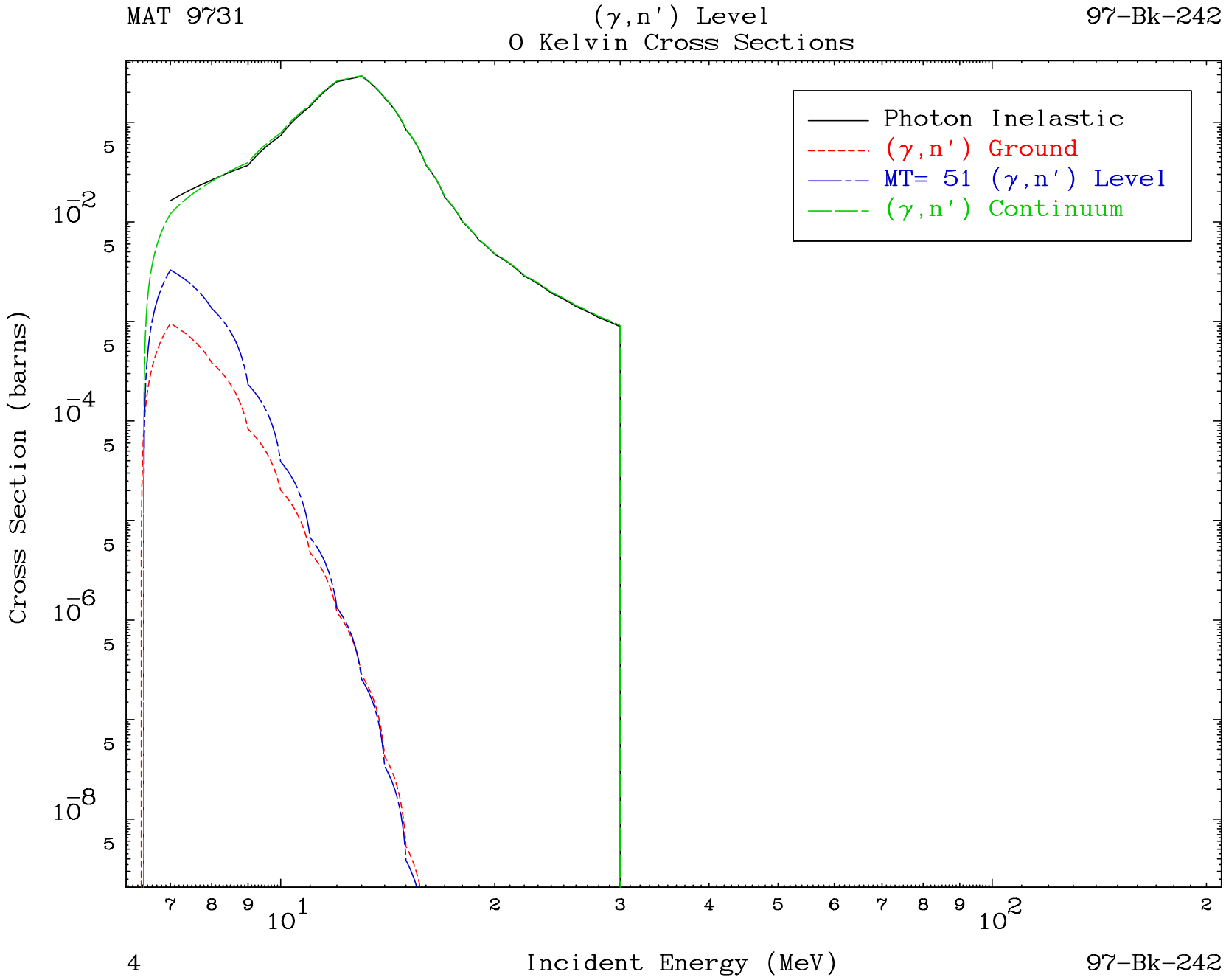
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

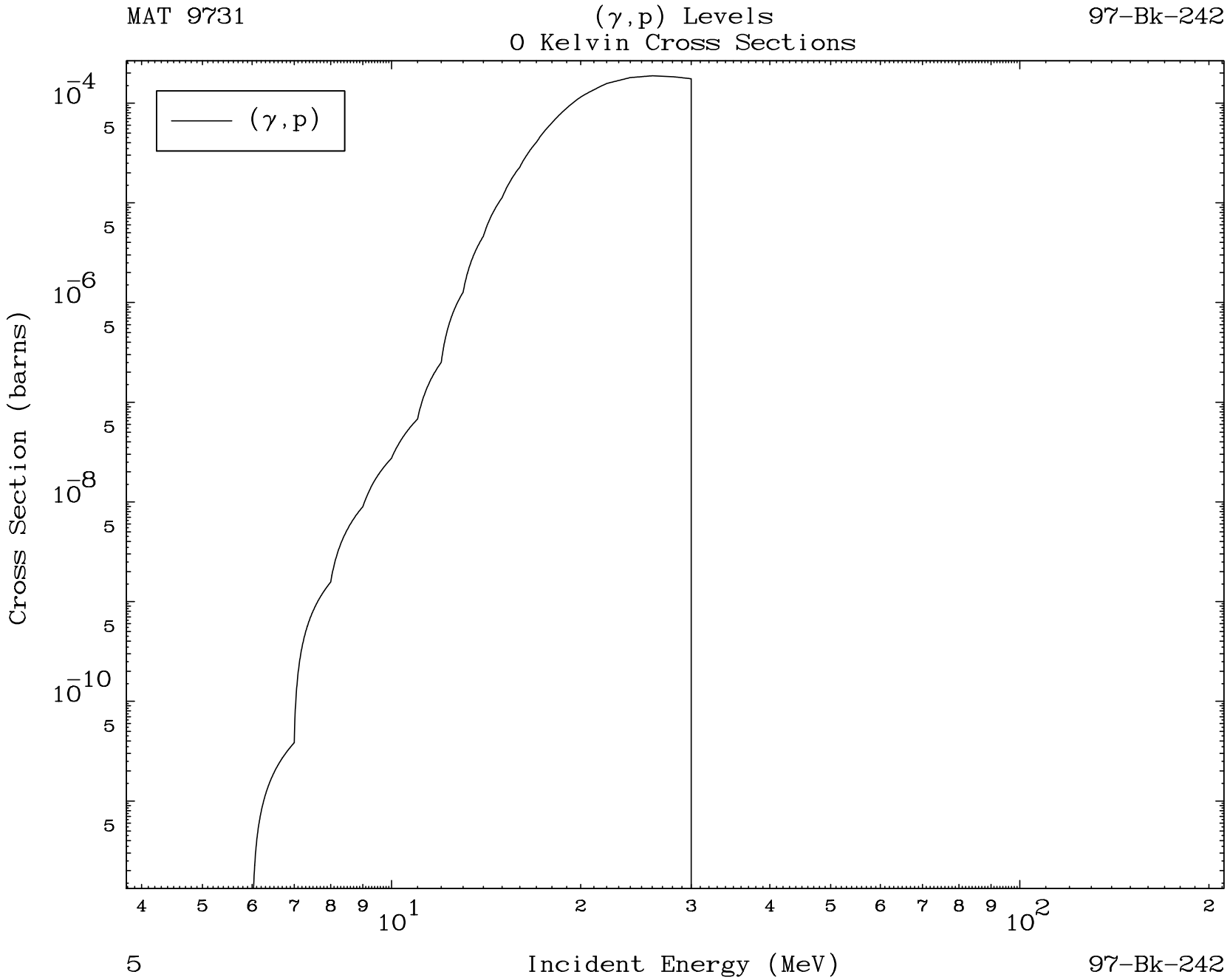
Press Mouse Button to Start

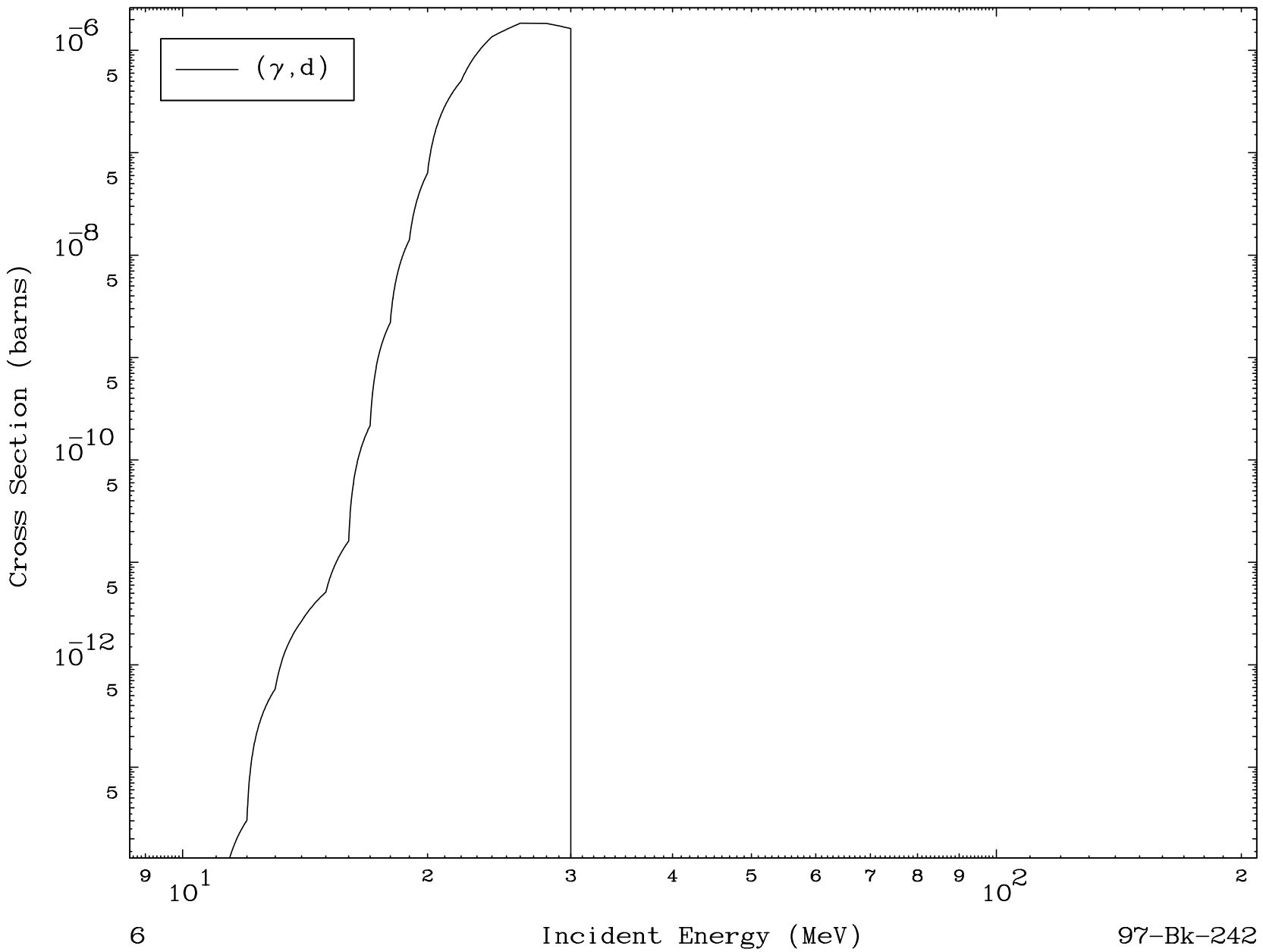

MAT 9731
Photon Major
97-Bk-242
0 Kelvin Cross Sections
Cross Section (barns)
Photon Inelastic
(γ,remainder)
(γ,γ)
Incident Energy (MeV)
97-Bk-242

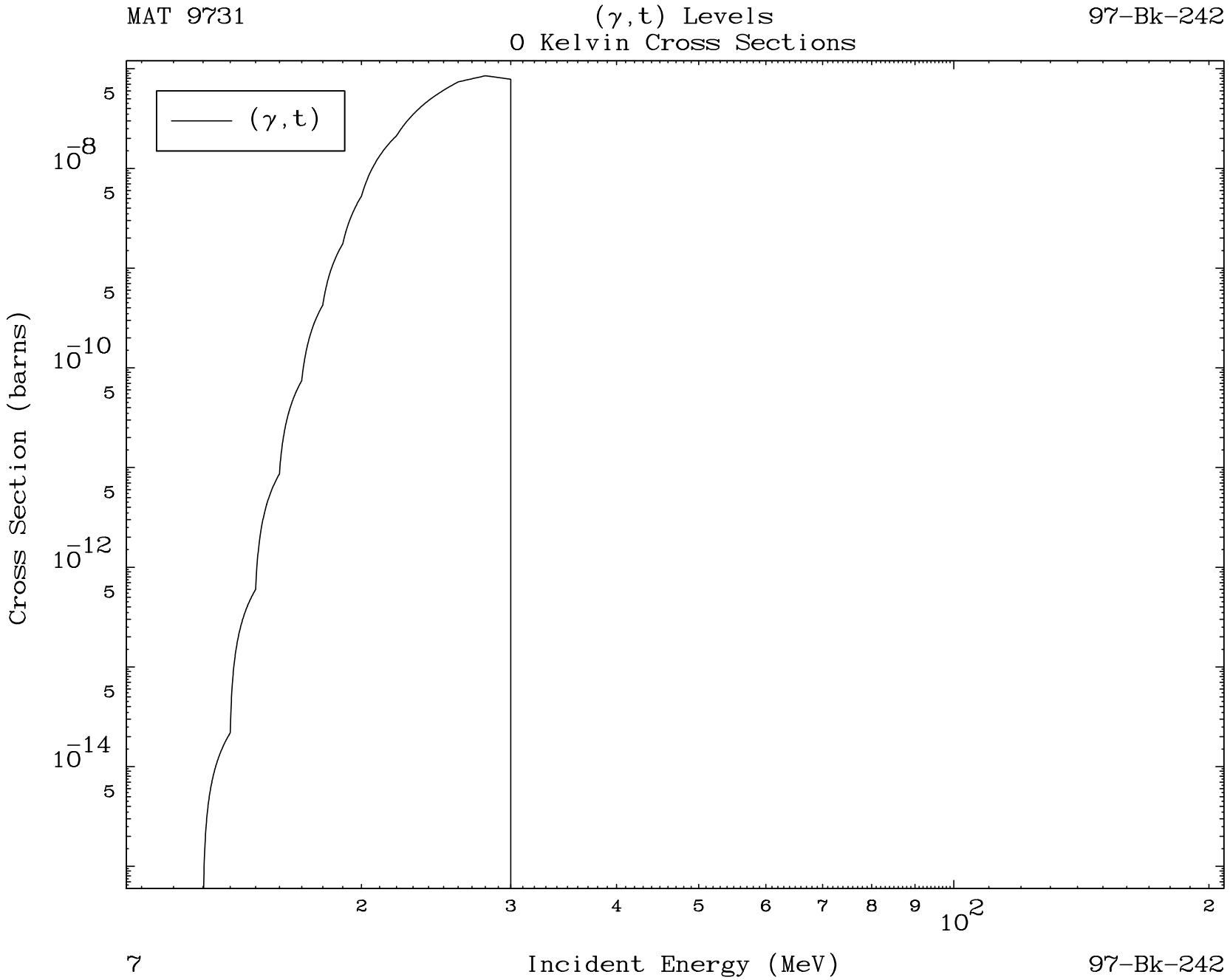

MAT 9731
Photon Neutron Production
0 Kelvin Cross Sections
97-Bk-242
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
Cross Section (barns)
Incident Energy (MeV)
97-Bk-242

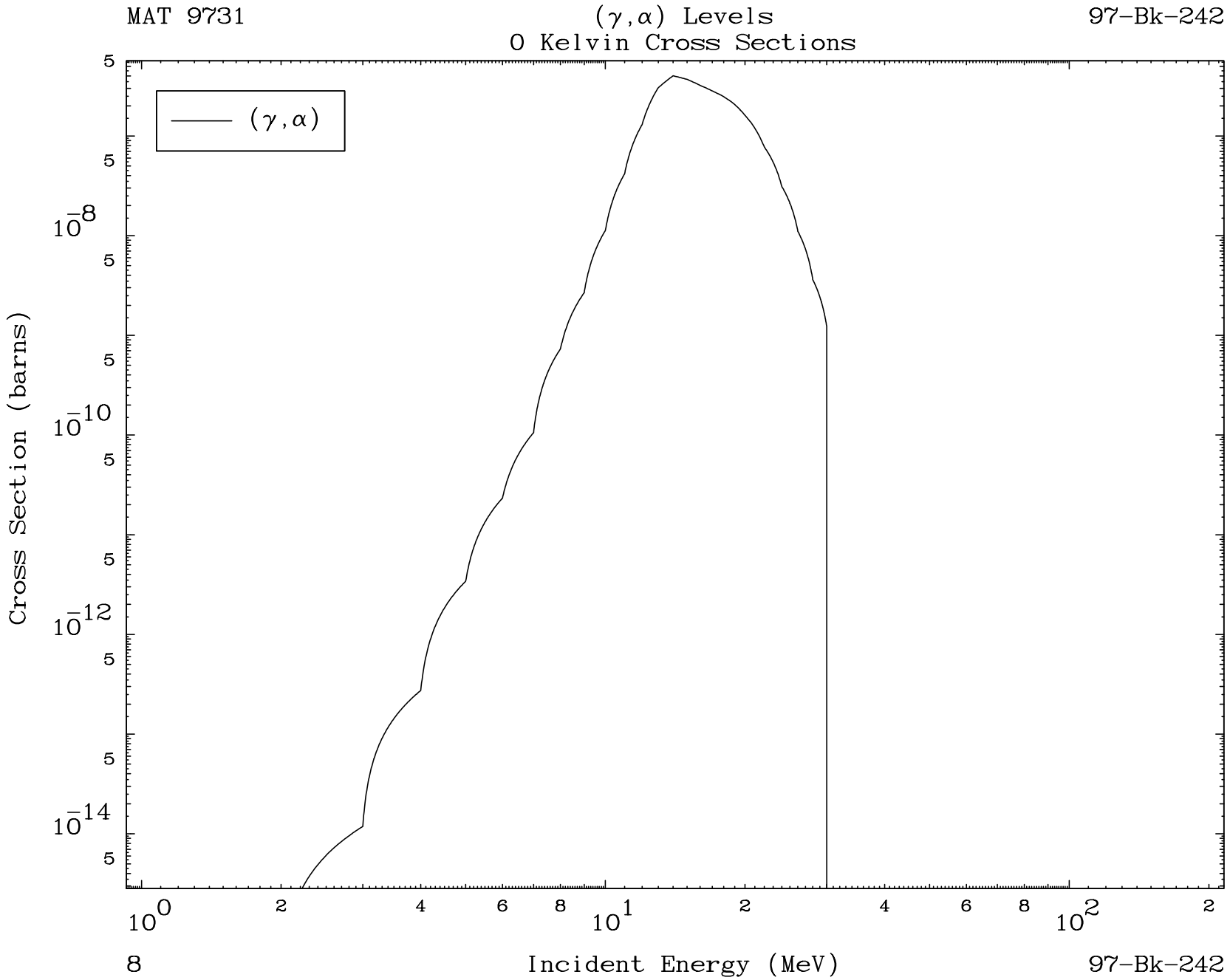

MAT 9731
Photon Charged Particle
0 Kelvin Cross Sections
97-Bk-242
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)
(γ,p) α
Cross Section (barns)
Incident Energy (MeV)
97-Bk-242
3

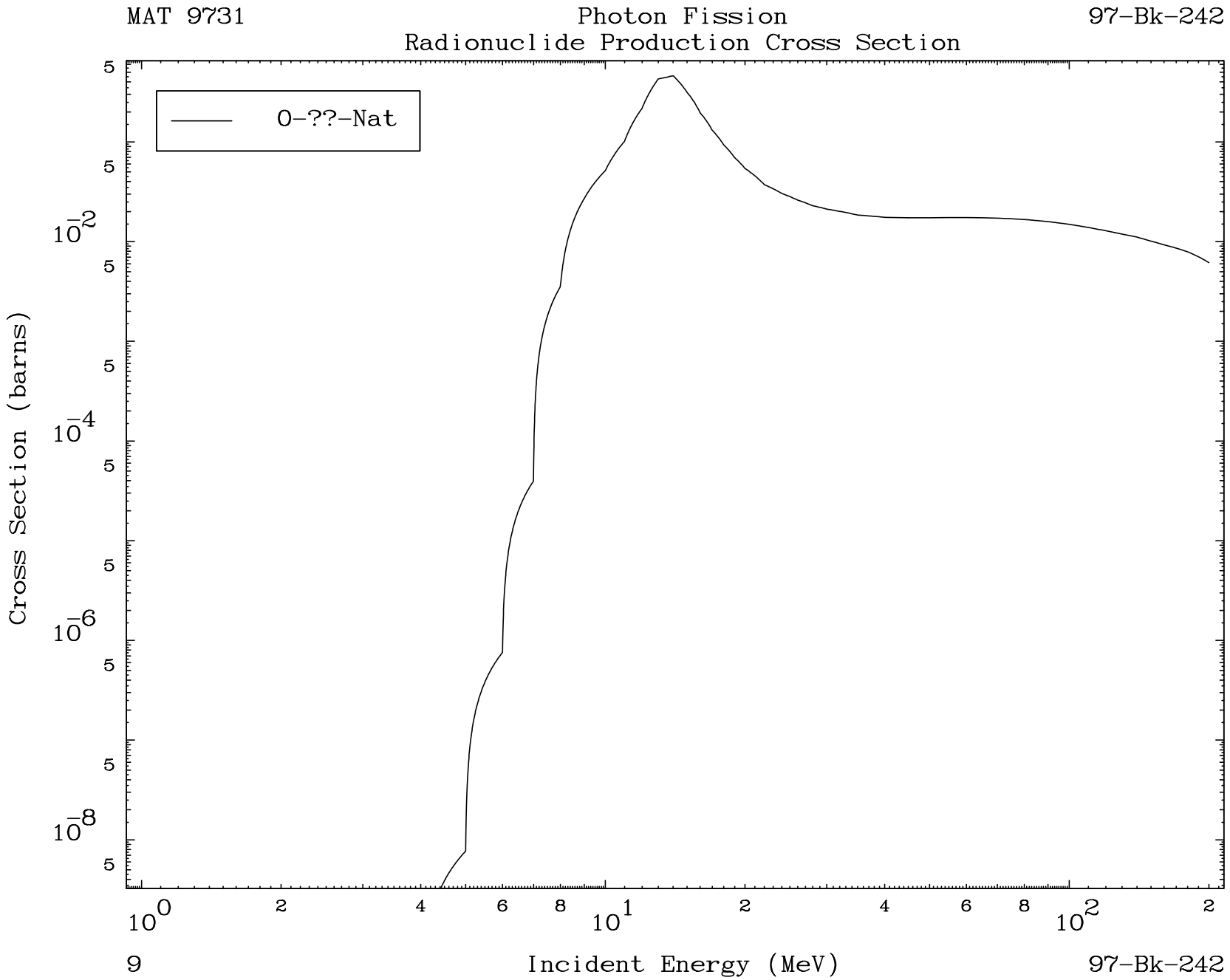

MAT 9731
(γ,n') Level
97-Bk-242
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
4
97-Bk-242

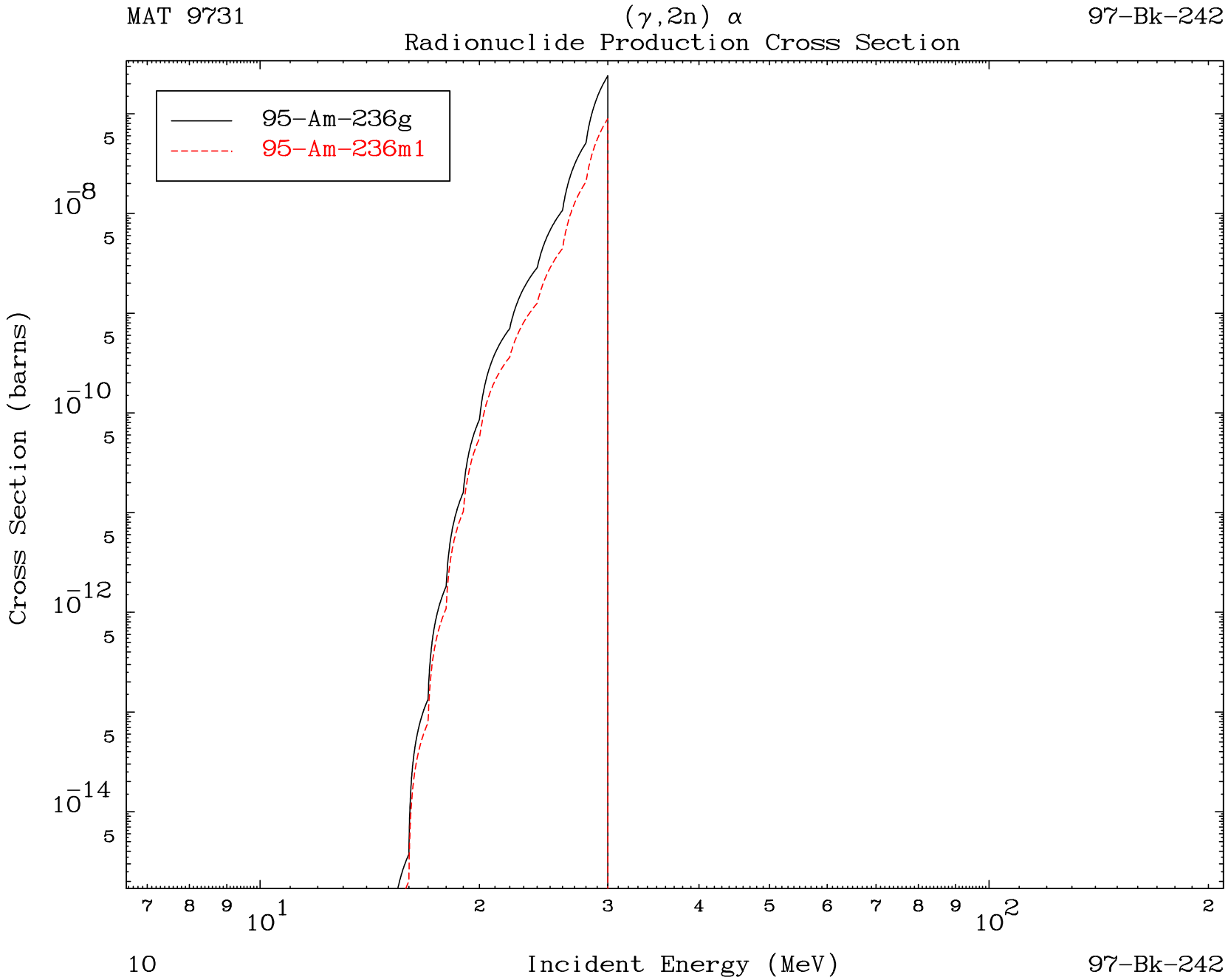

MAT 9731
(γ,p) Levels
97-Bk-242
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
97-Bk-242

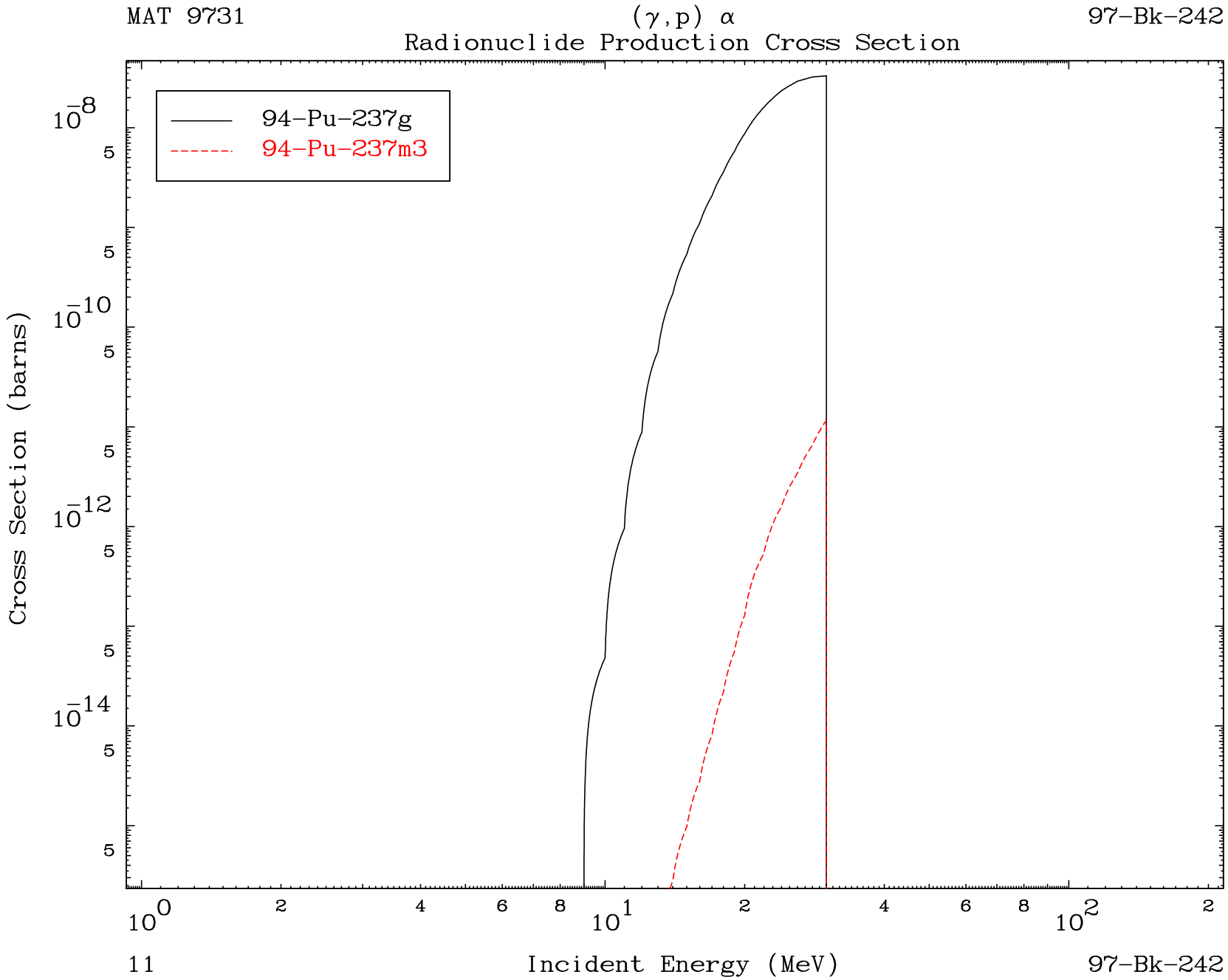

0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)


MAT 9731
(γ,t) Levels
97-Bk-242
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)
97-Bk-242


MAT 9731
(γ,α) Levels
97-Bk-242
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10-8
10-10
10-12
10-14
100
101
102
Incident Energy (MeV)
97-Bk-242


MAT 9731
Photon Fission
97-Bk-242
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
97-Bk-242


MAT 9731
(γ,2n) α
97-Bk-242
Radionuclide Production Cross Section
95-Am-236g
95-Am-236m1
Cross Section (barns)
10⁻⁸
10⁻¹⁰
10⁻¹²
10⁻¹⁴
5
7 8 9 10¹ 2 3 4 5 6 7 8 9 10² 2
10
Incident Energy (MeV)
97-Bk-242


MAT 9731
(γ,p) α
97-Bk-242
Radionuclide Production Cross Section
94-Pu-237g
94-Pu-237m3
Cross Section (barns)
Incident Energy (MeV)
11
97-Bk-242