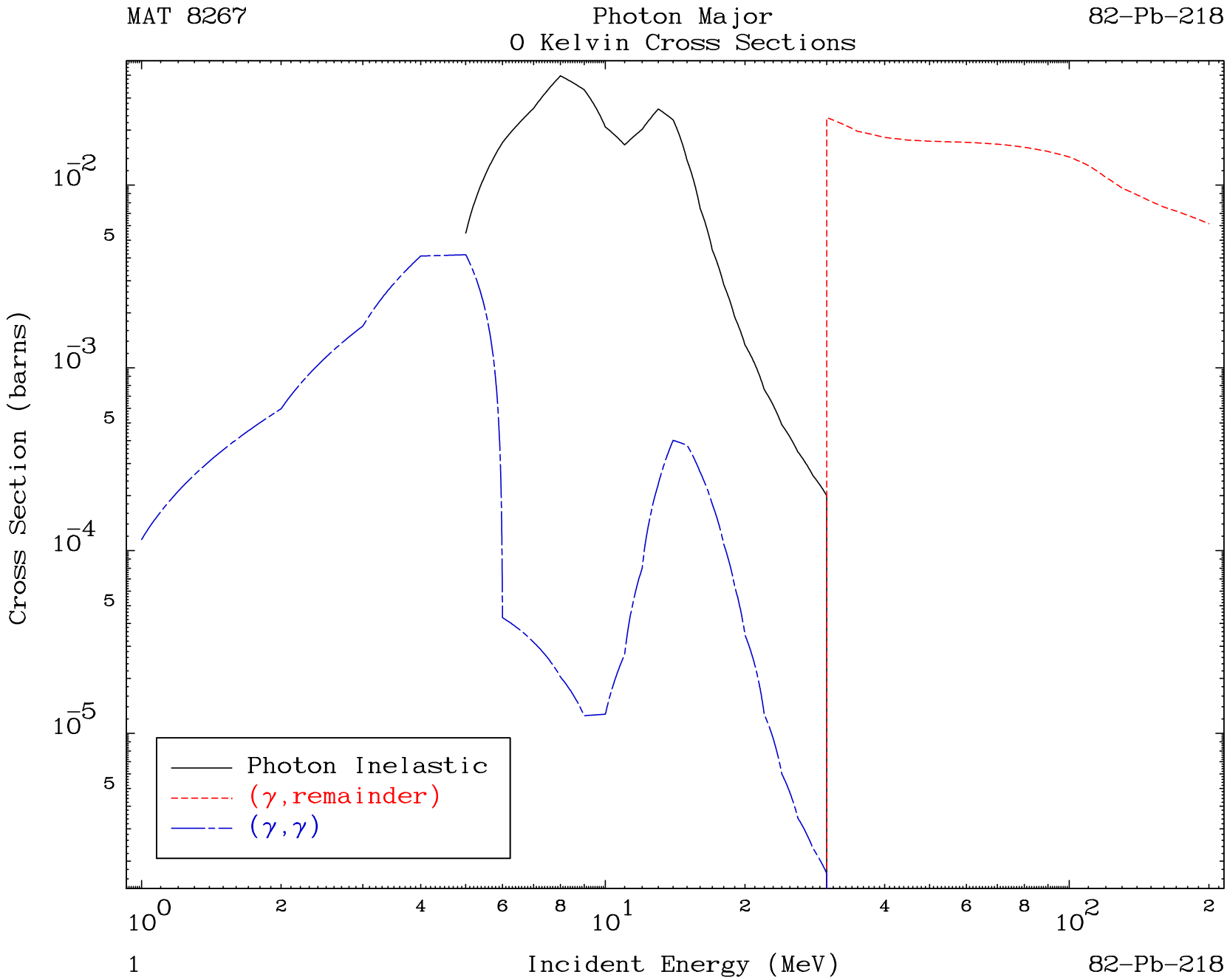
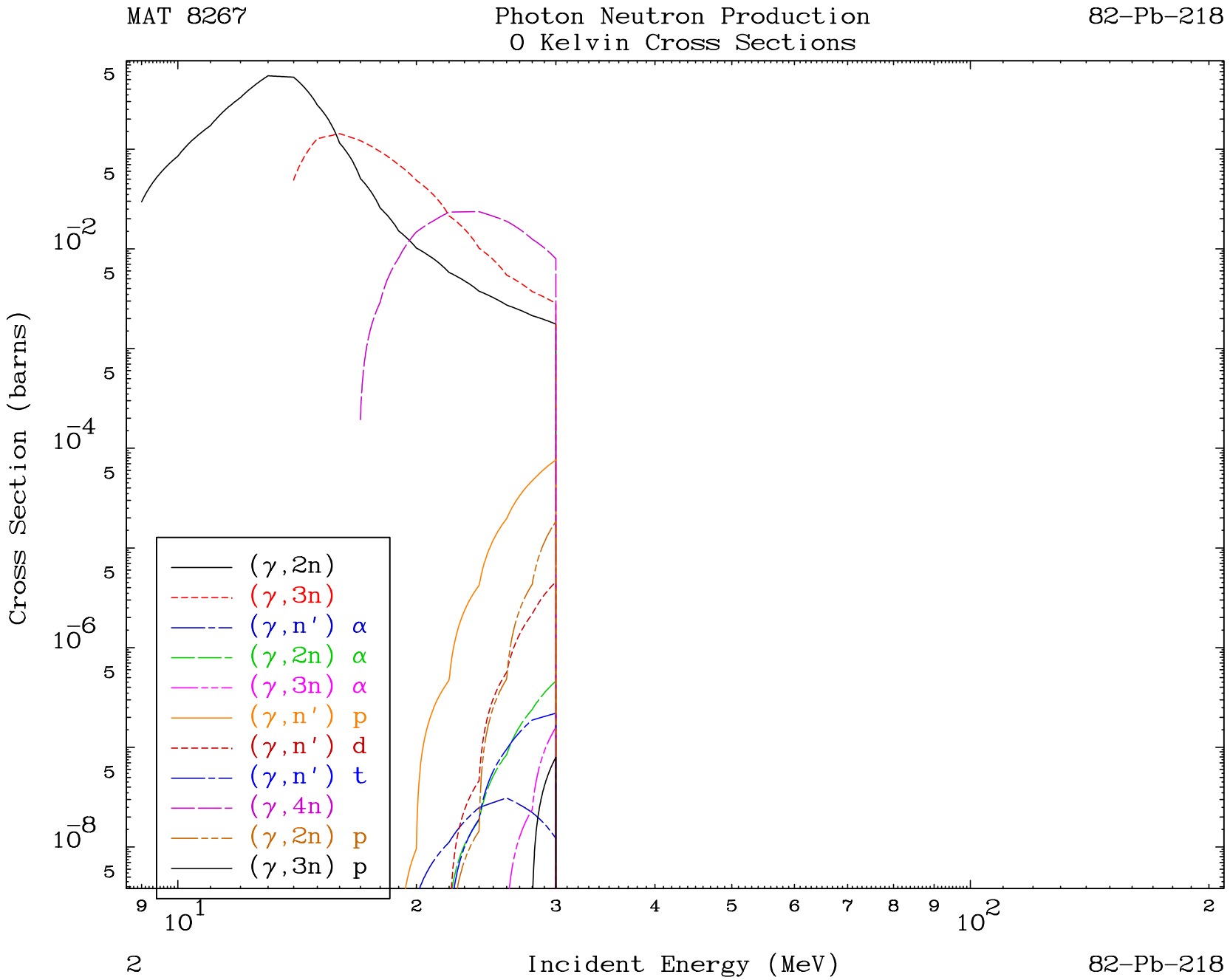
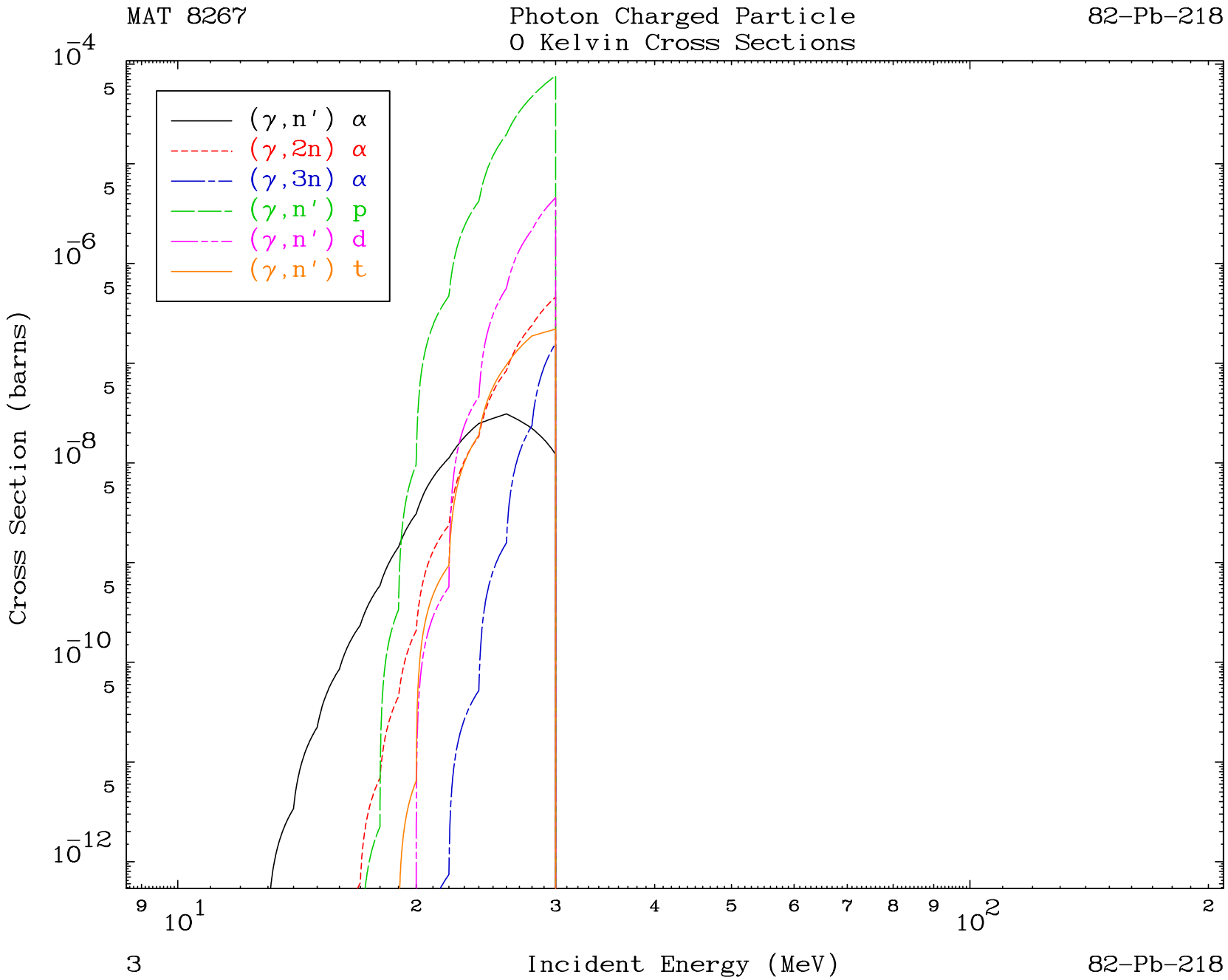
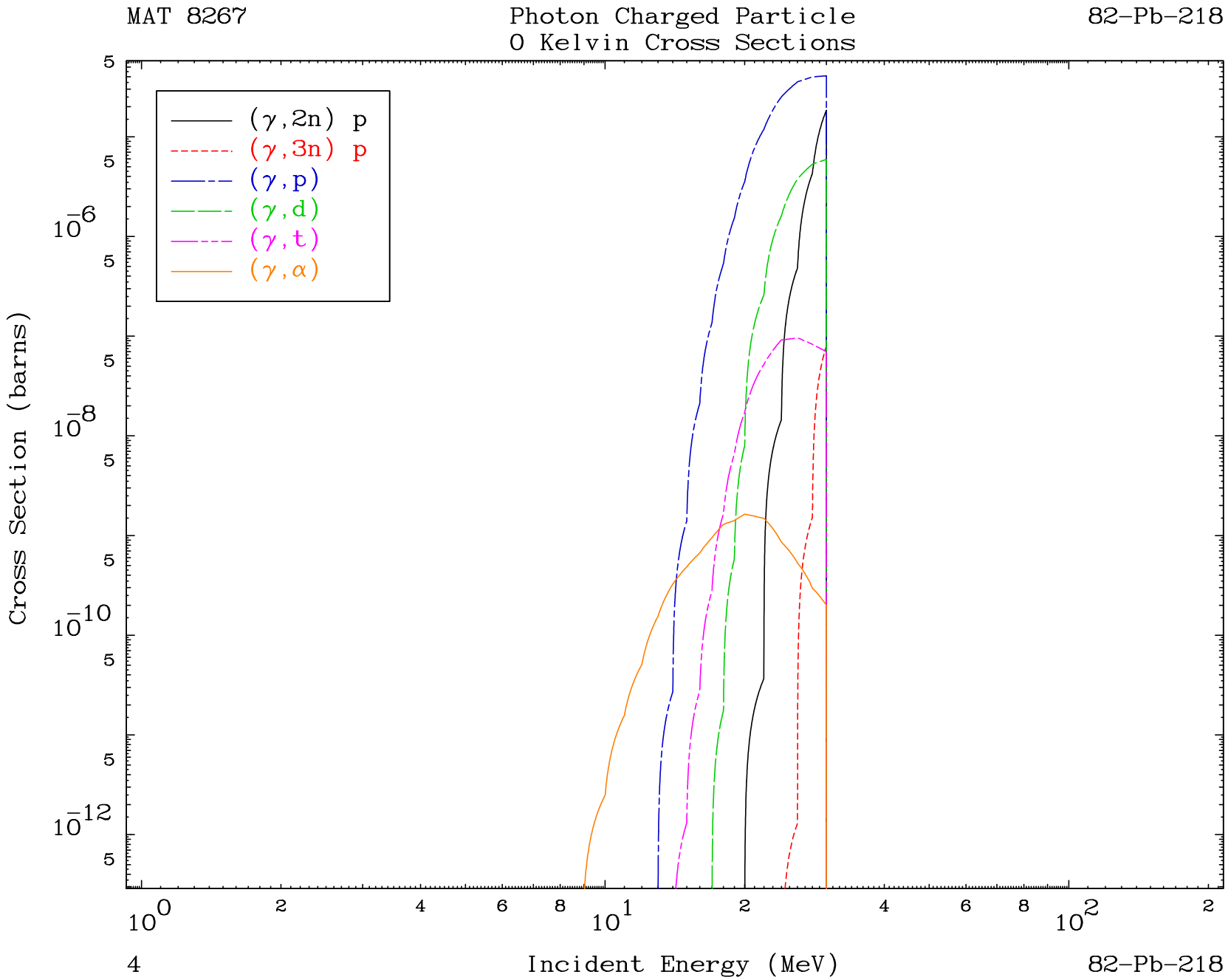
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

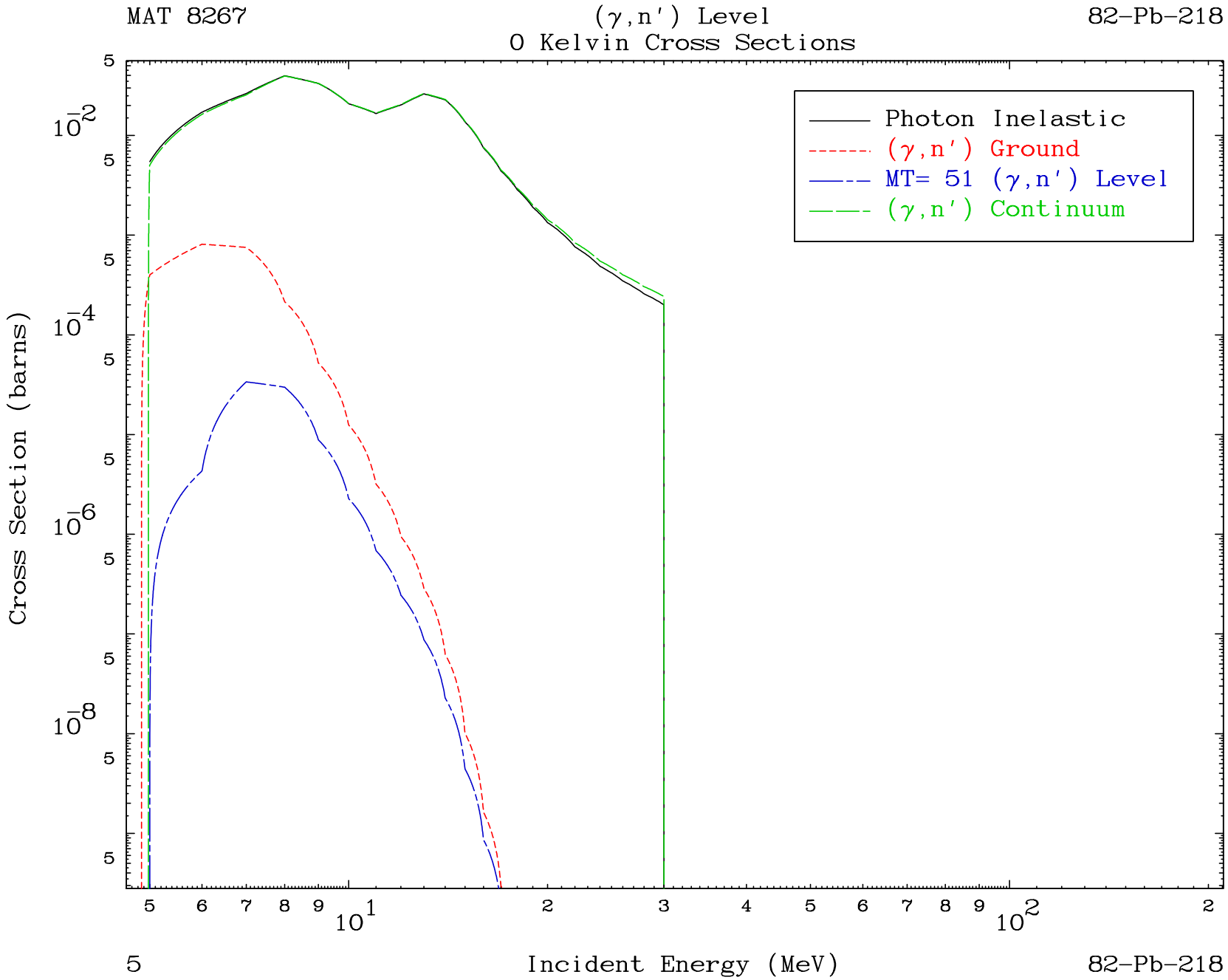
Press Mouse Button to Start

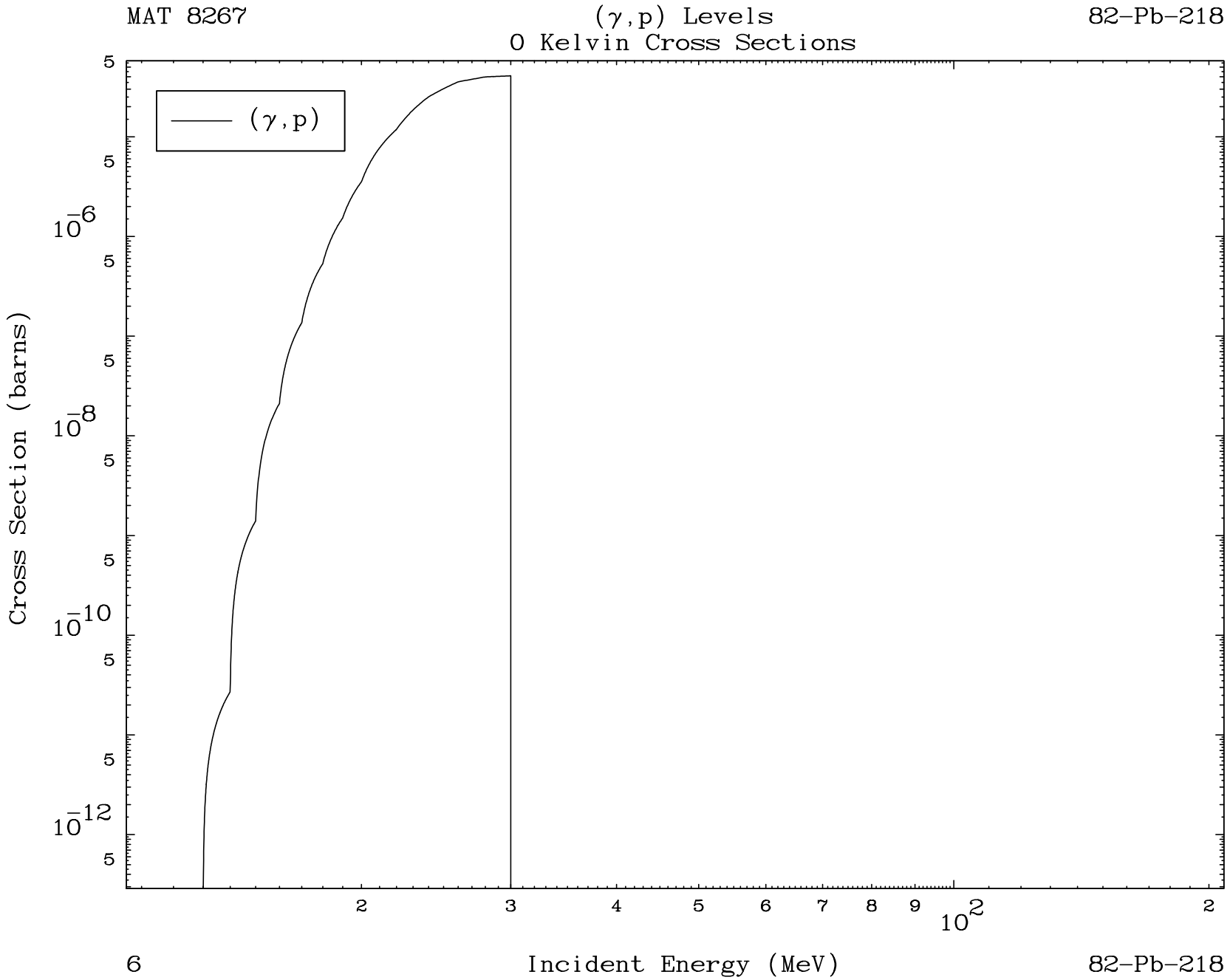

MAT 8267
Photon Major
82-Pb-218
0 Kelvin Cross Sections
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
Photon Inelastic
(γ,remainder)
(γ,γ)
100
2
4
6
8
101
2
4
6
8
102
2
1
Incident Energy (MeV)
82-Pb-218

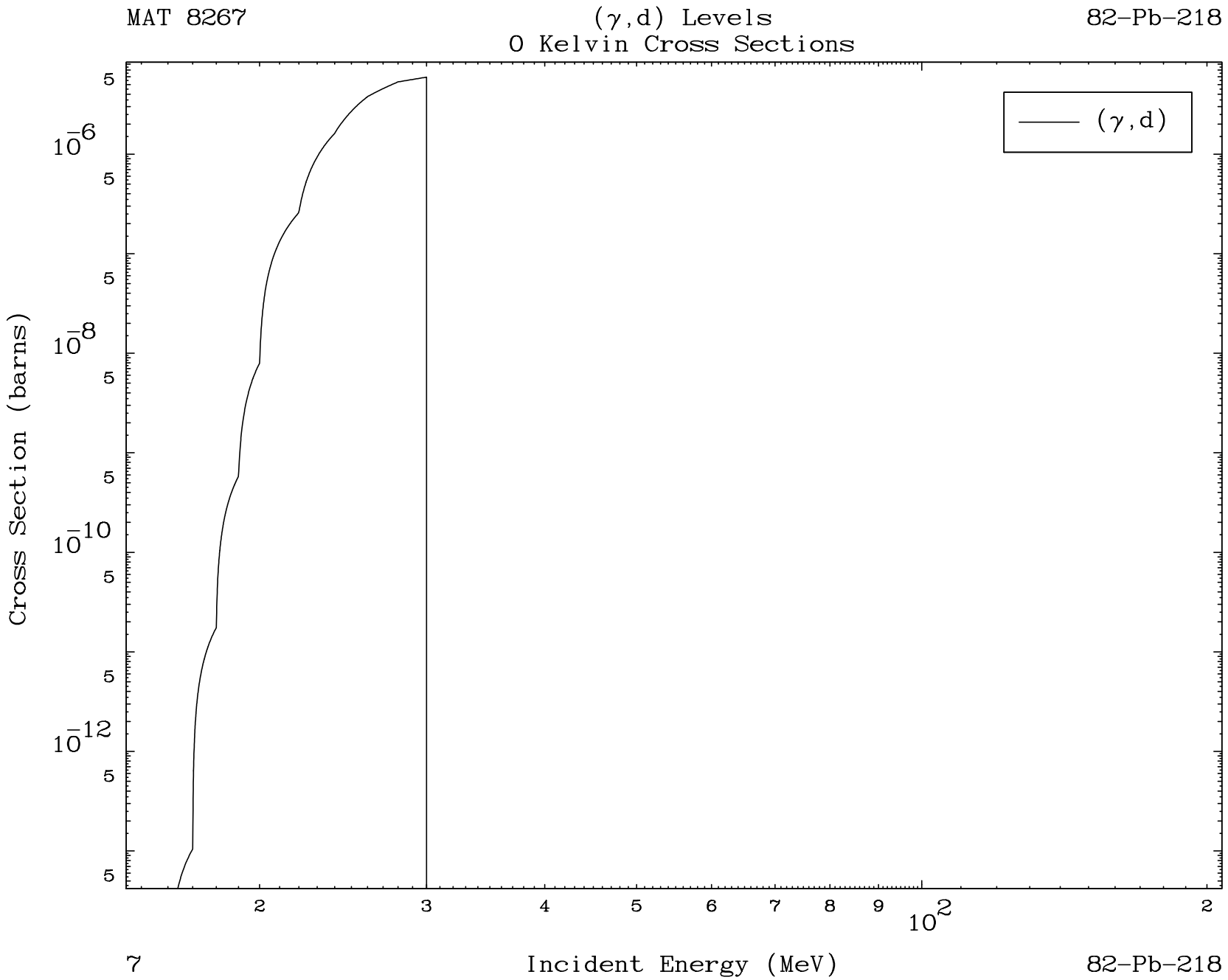

MAT 8267
Photon Neutron Production
0 Kelvin Cross Sections
82-Pb-218
Cross Section (barns)
Incident Energy (MeV)
82-Pb-218
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,3n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,4n)
(γ,2n) p
(γ,3n) p

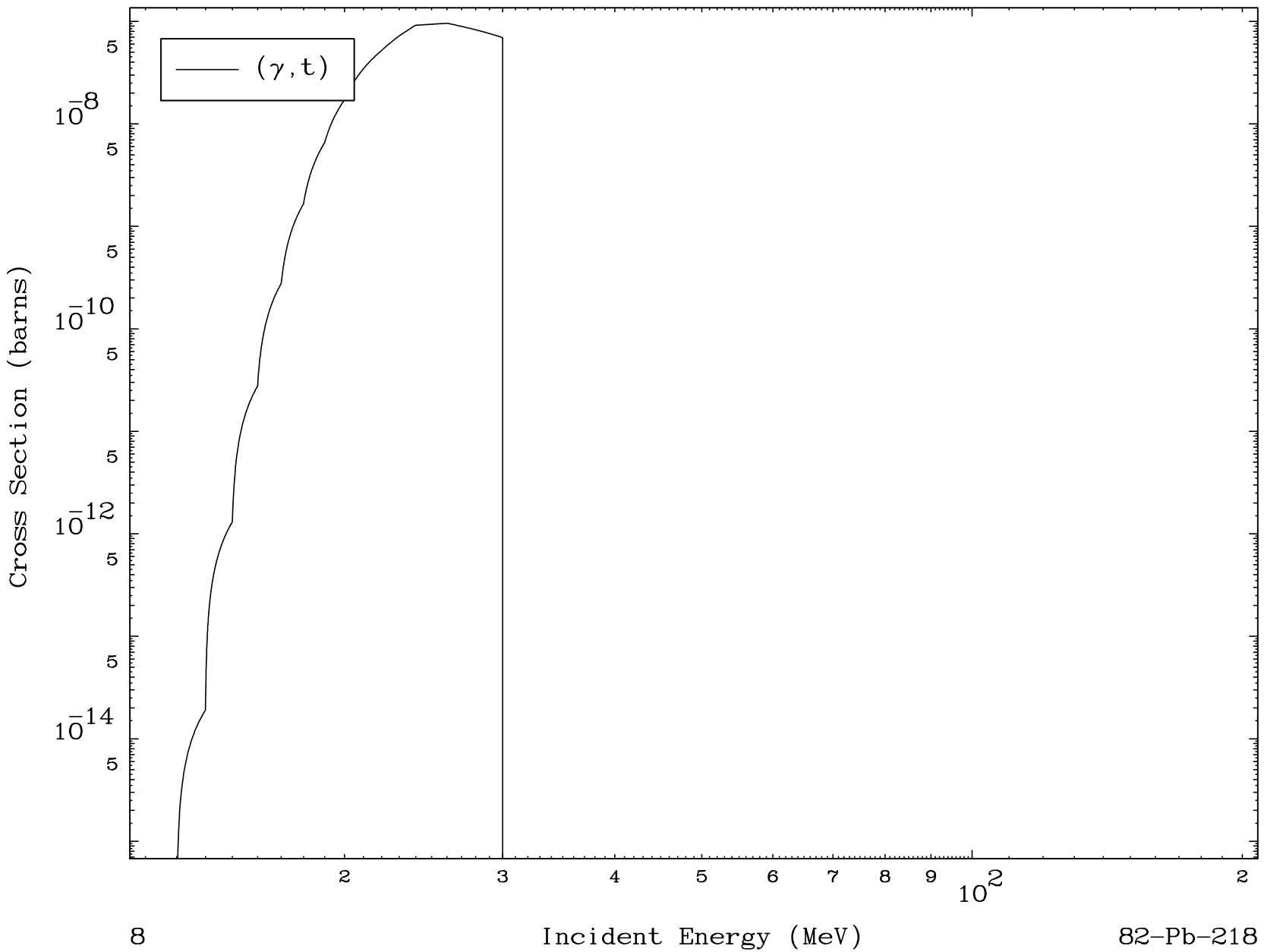

MAT 8267
Photon Charged Particle
0 Kelvin Cross Sections
82-Pb-218
(γ,n') α
(γ,2n) α
(γ,3n) α
(γ,n') p
(γ,n') d
(γ,n') t
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
9
10^1
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
3
82-Pb-218

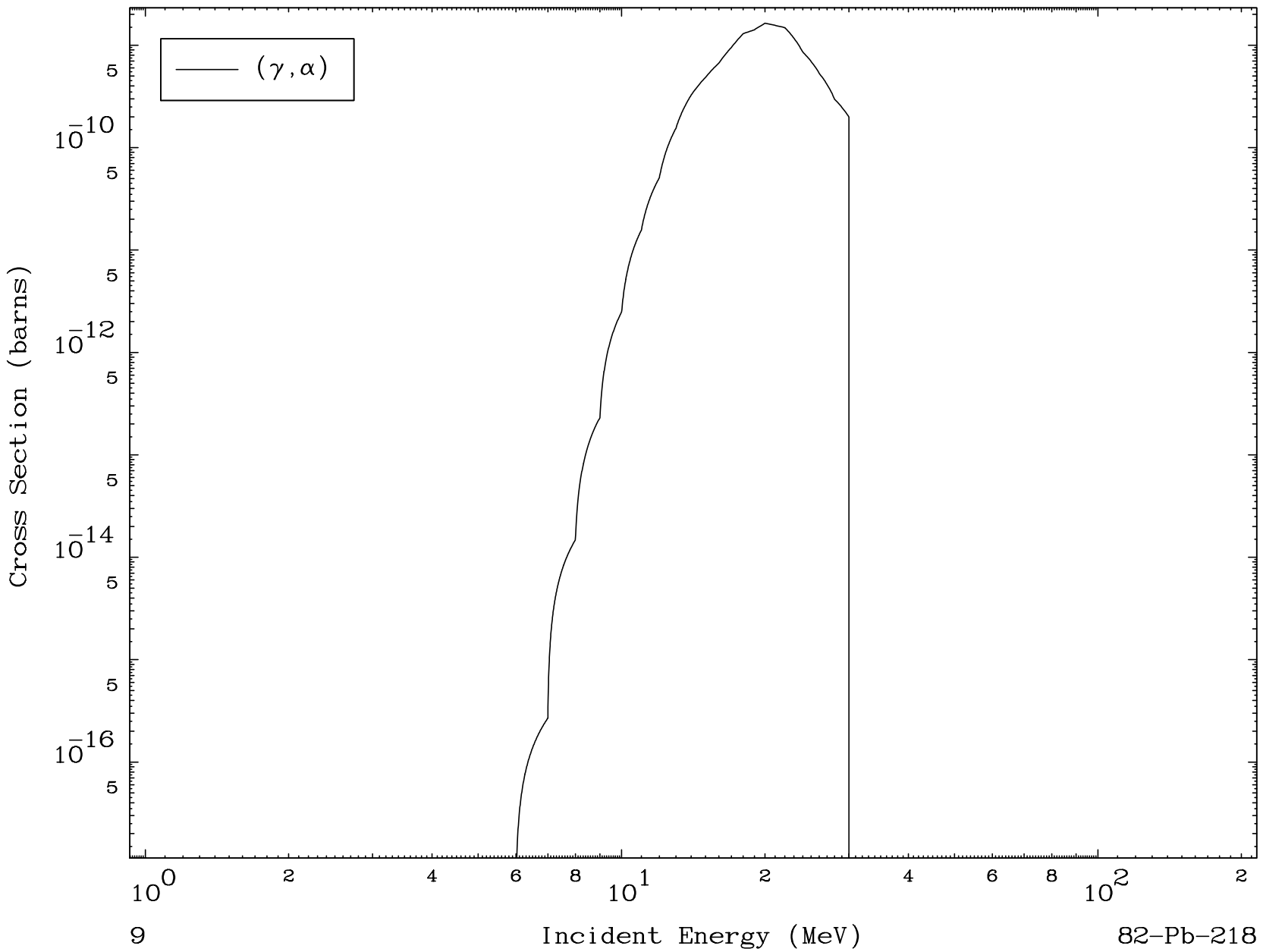

MAT 8267
Photon Charged Particle
0 Kelvin Cross Sections
82-Pb-218
(γ,2n) p
(γ,3n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-218
4

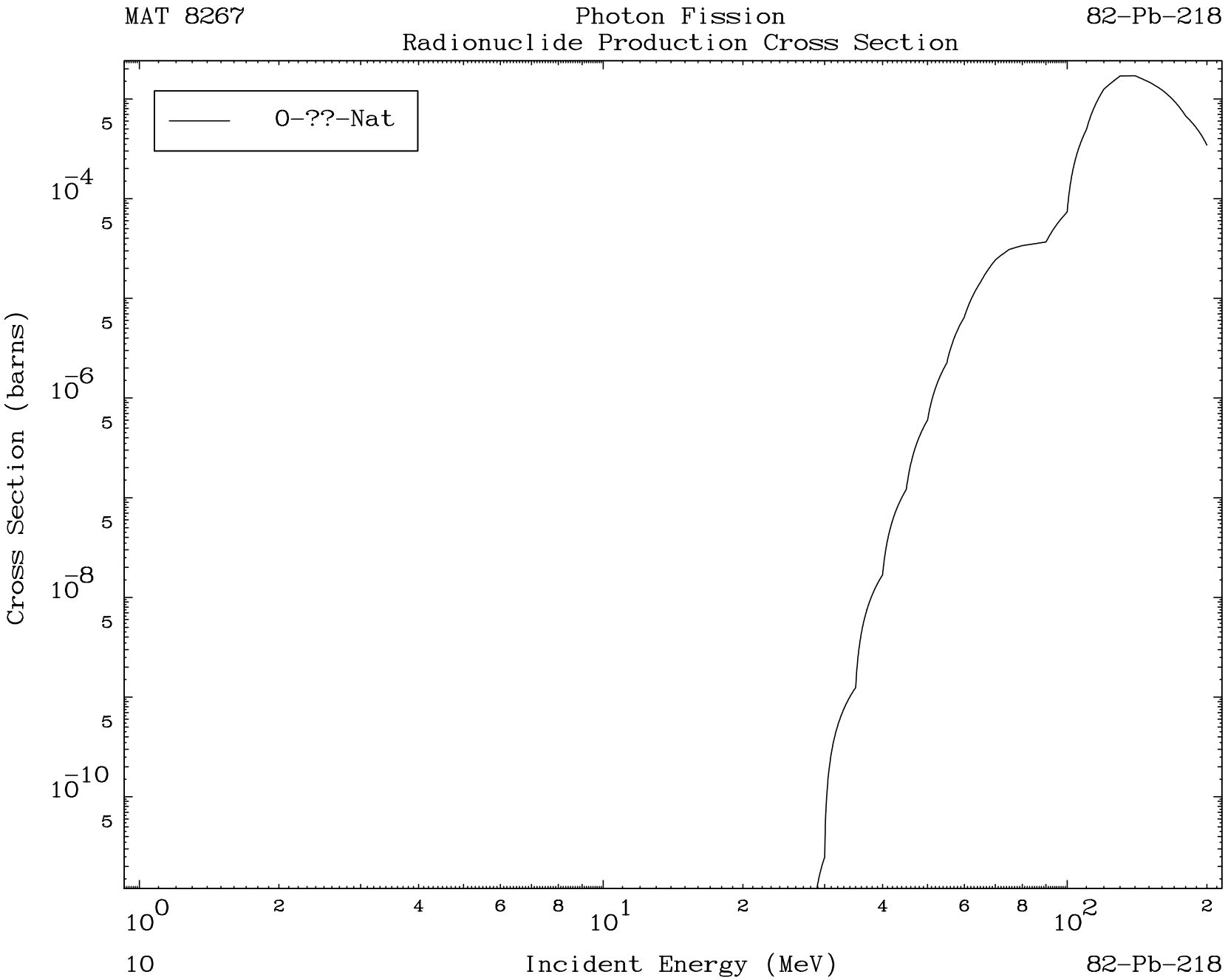

MAT 8267
(γ,n') Level
82-Pb-218
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
82-Pb-218


MAT 8267
(γ,p) Levels
82-Pb-218
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
6
Incident Energy (MeV)
82-Pb-218


MAT 8267
(γ,d) Levels
82-Pb-218
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
82-Pb-218


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)


0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
10^0
10^1
10^2
Incident Energy (MeV)


MAT 8267
Photon Fission
82-Pb-218
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
82-Pb-218