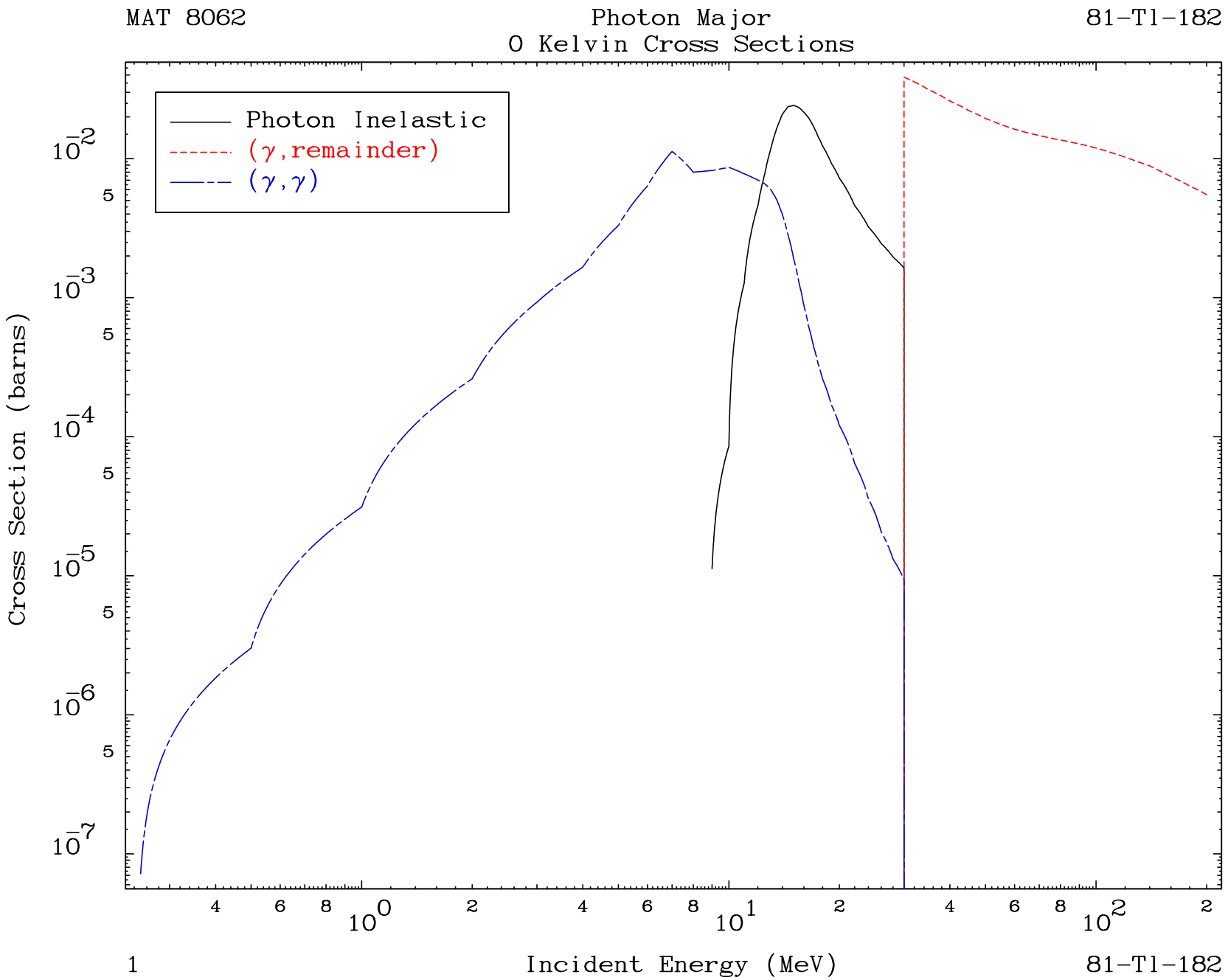
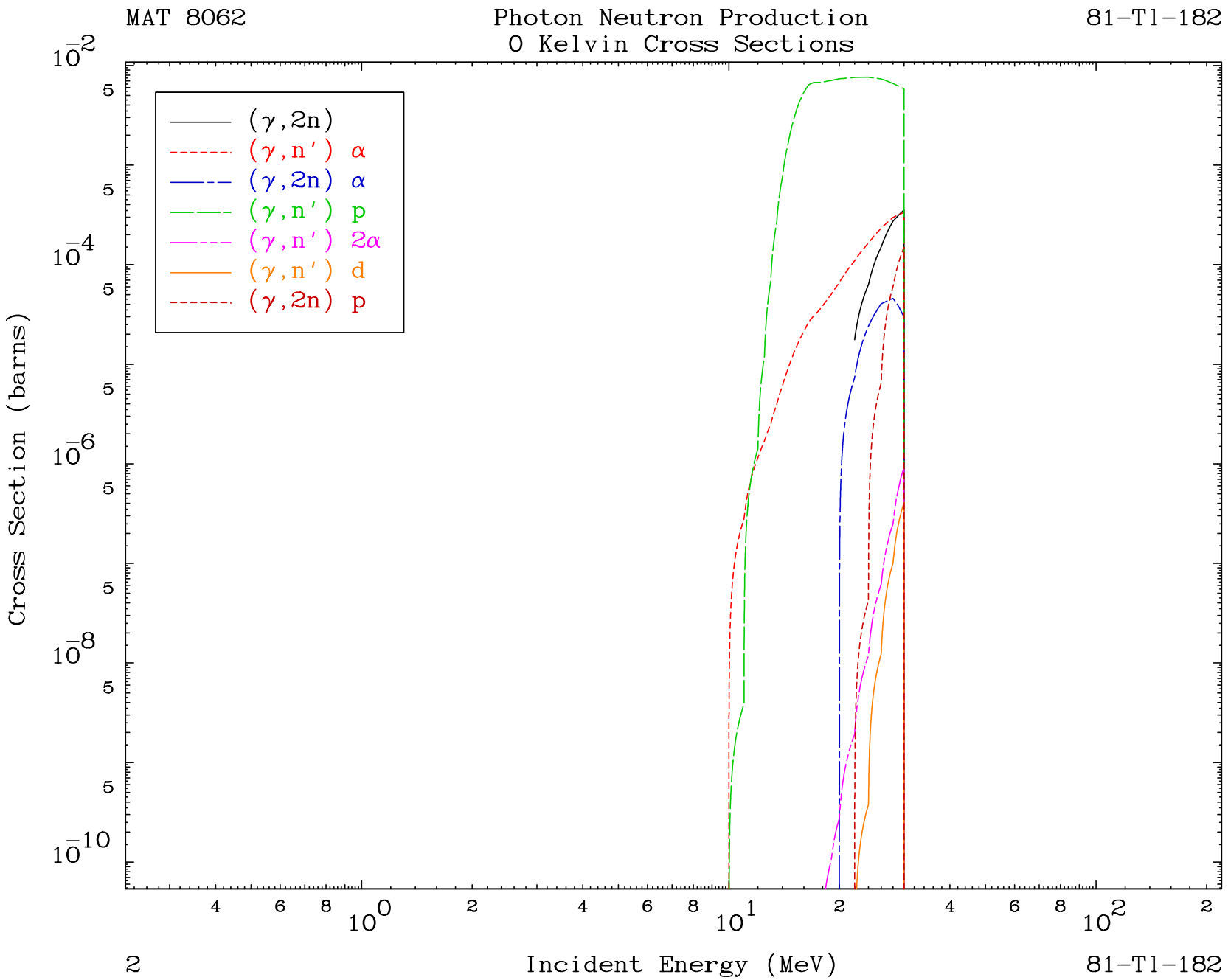
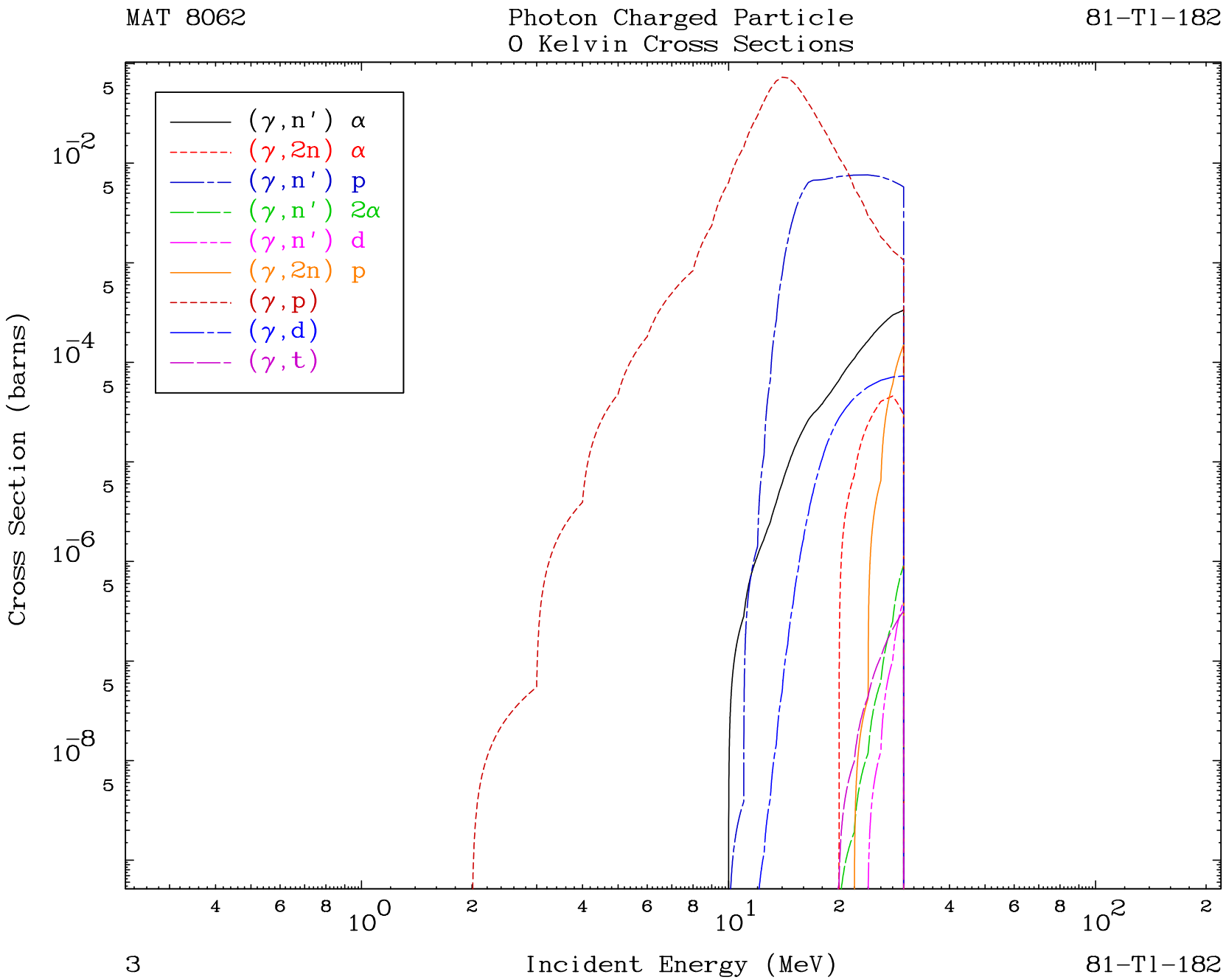
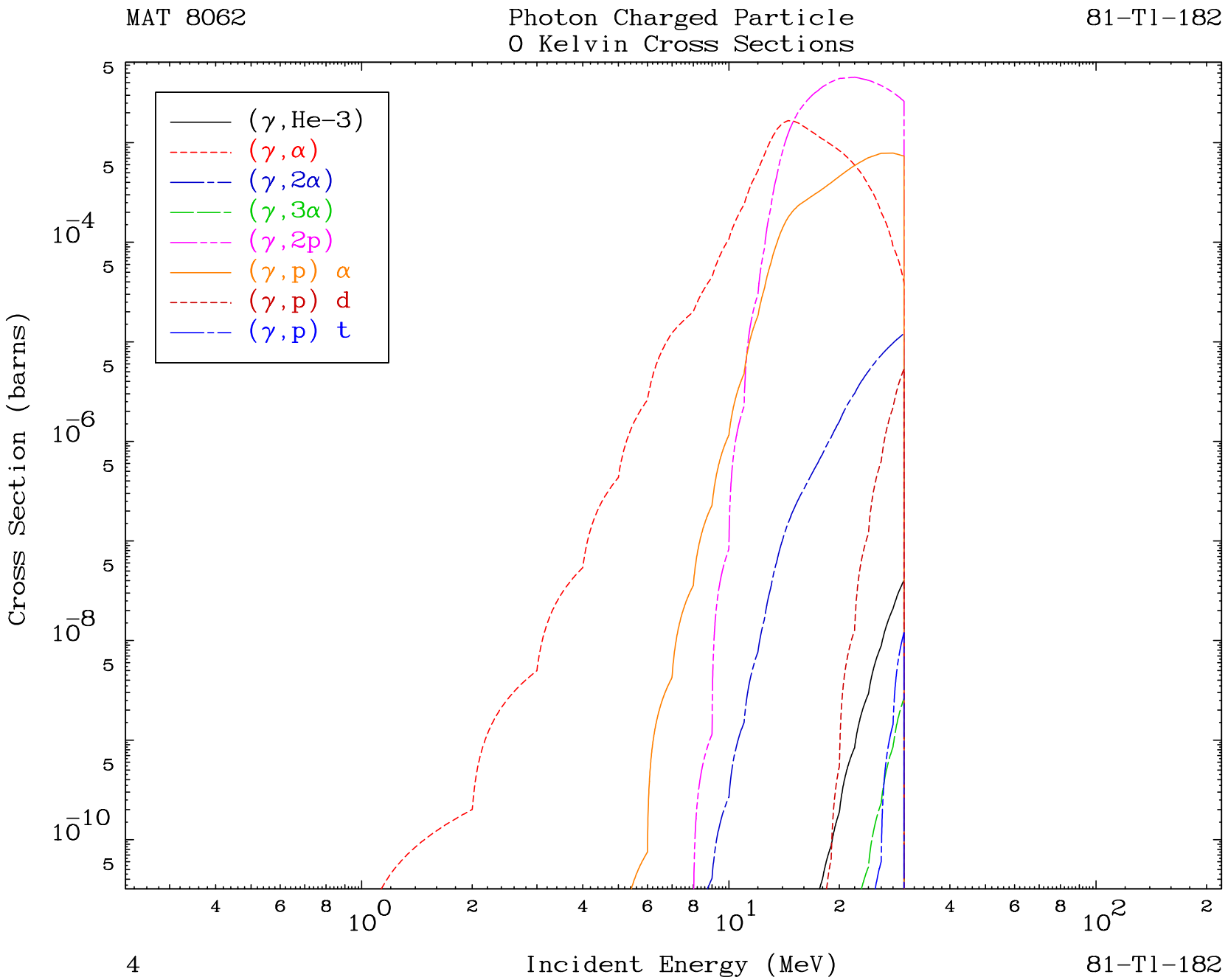
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

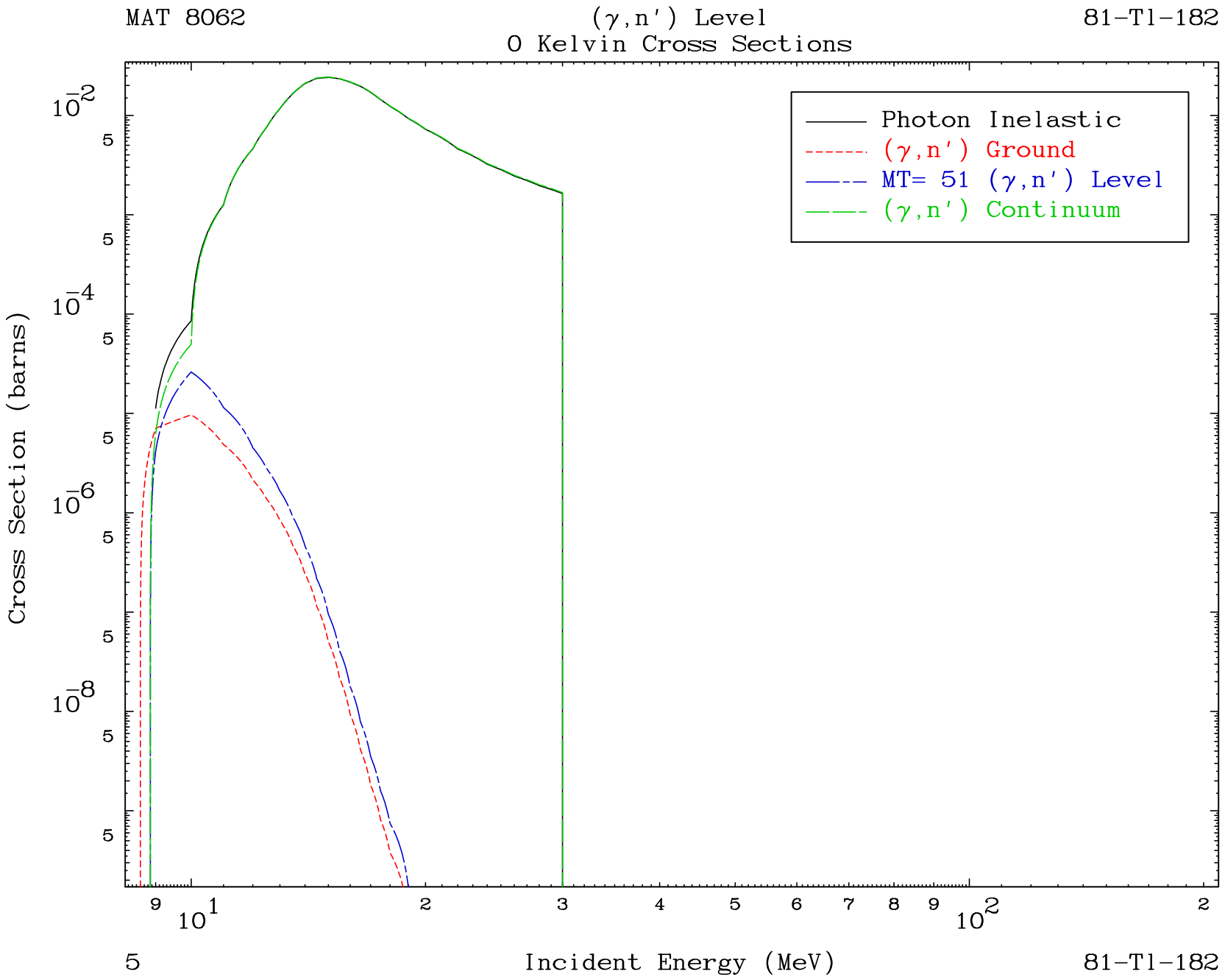
Press Mouse Button to Start

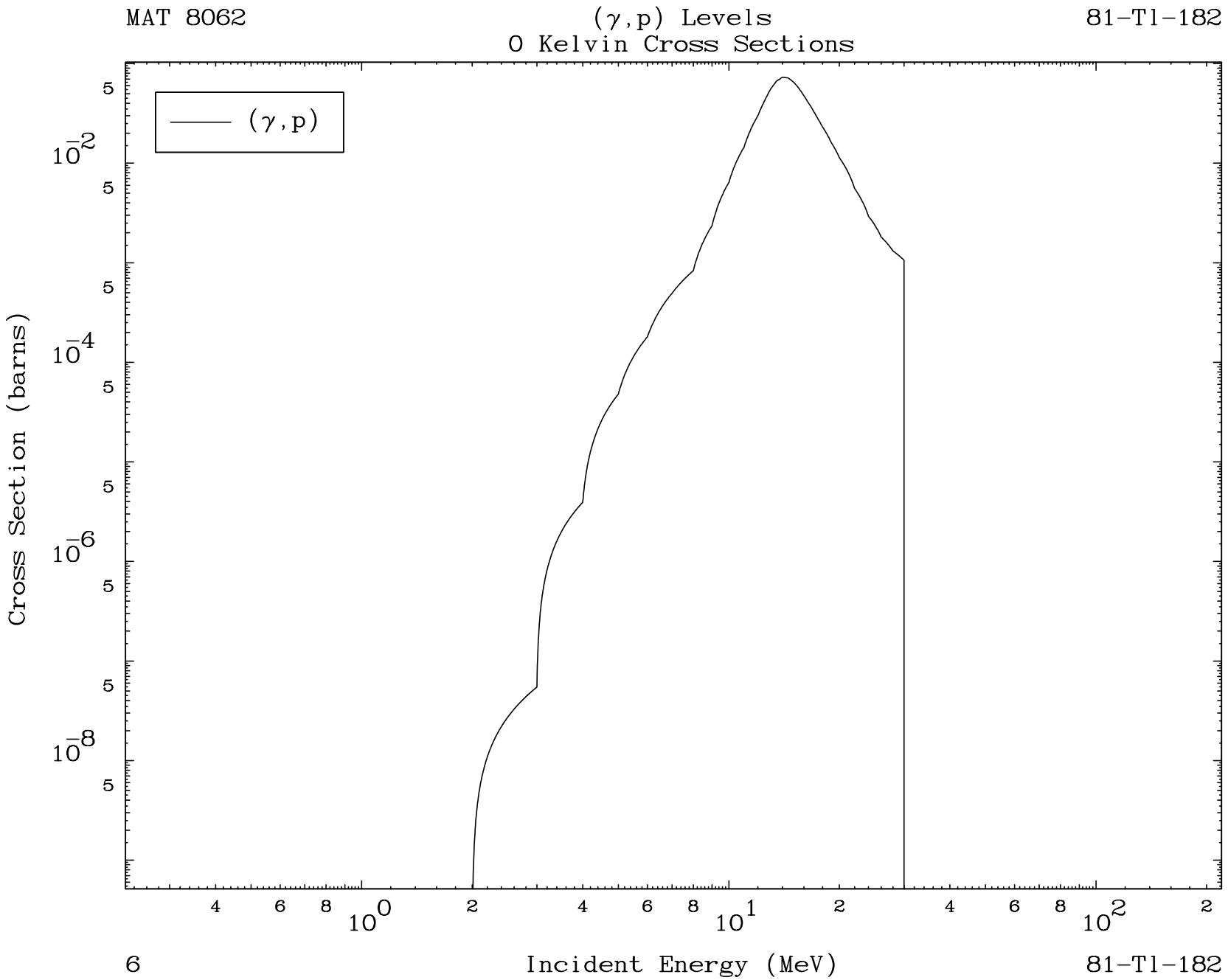

MAT 8062
Photon Major
81-Tl-182
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
81-Tl-182

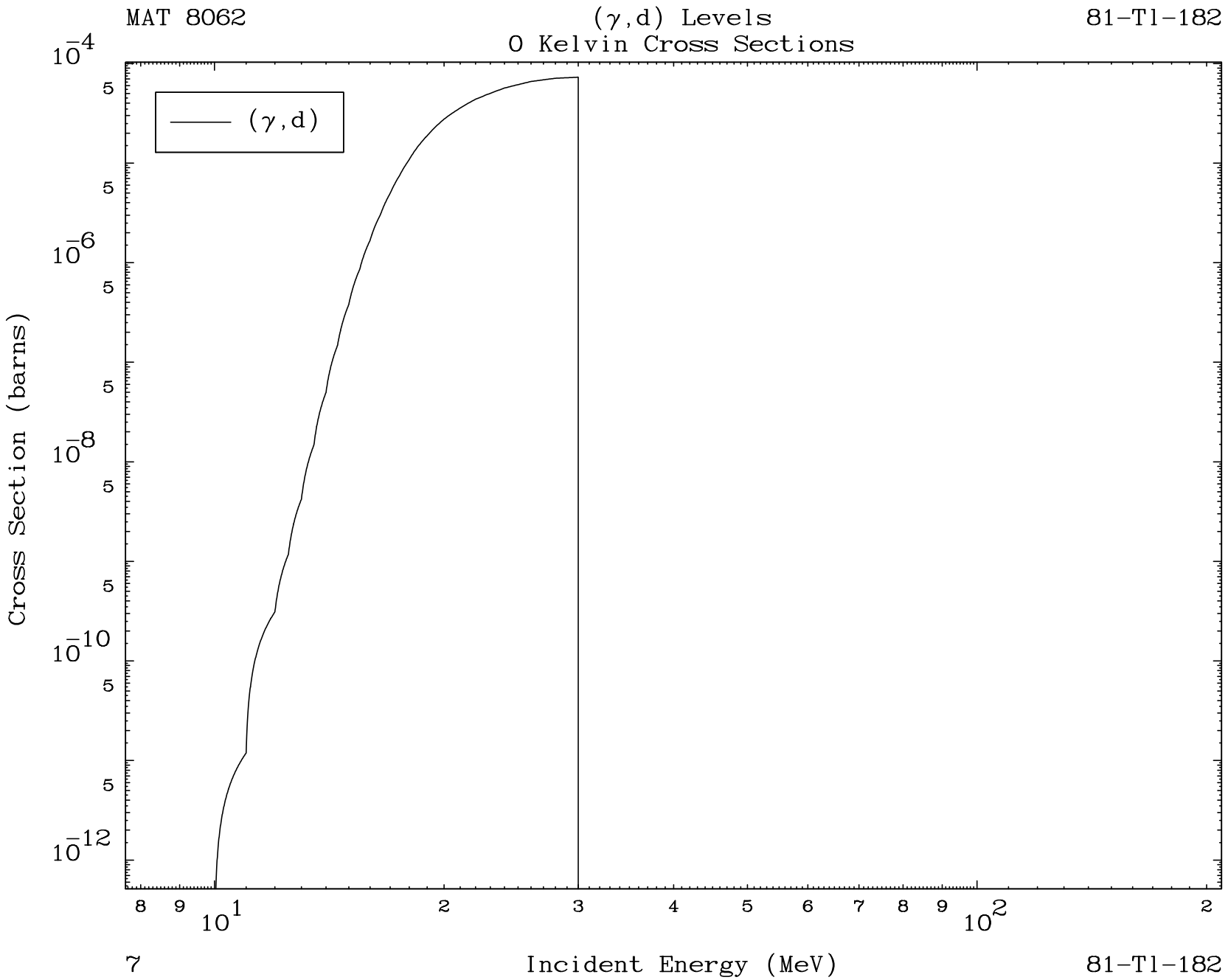

MAT 8062
Photon Neutron Production
0 Kelvin Cross Sections
81-Tl-182
(γ,2n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p
Cross Section (barns)
Incident Energy (MeV)
81-Tl-182
2

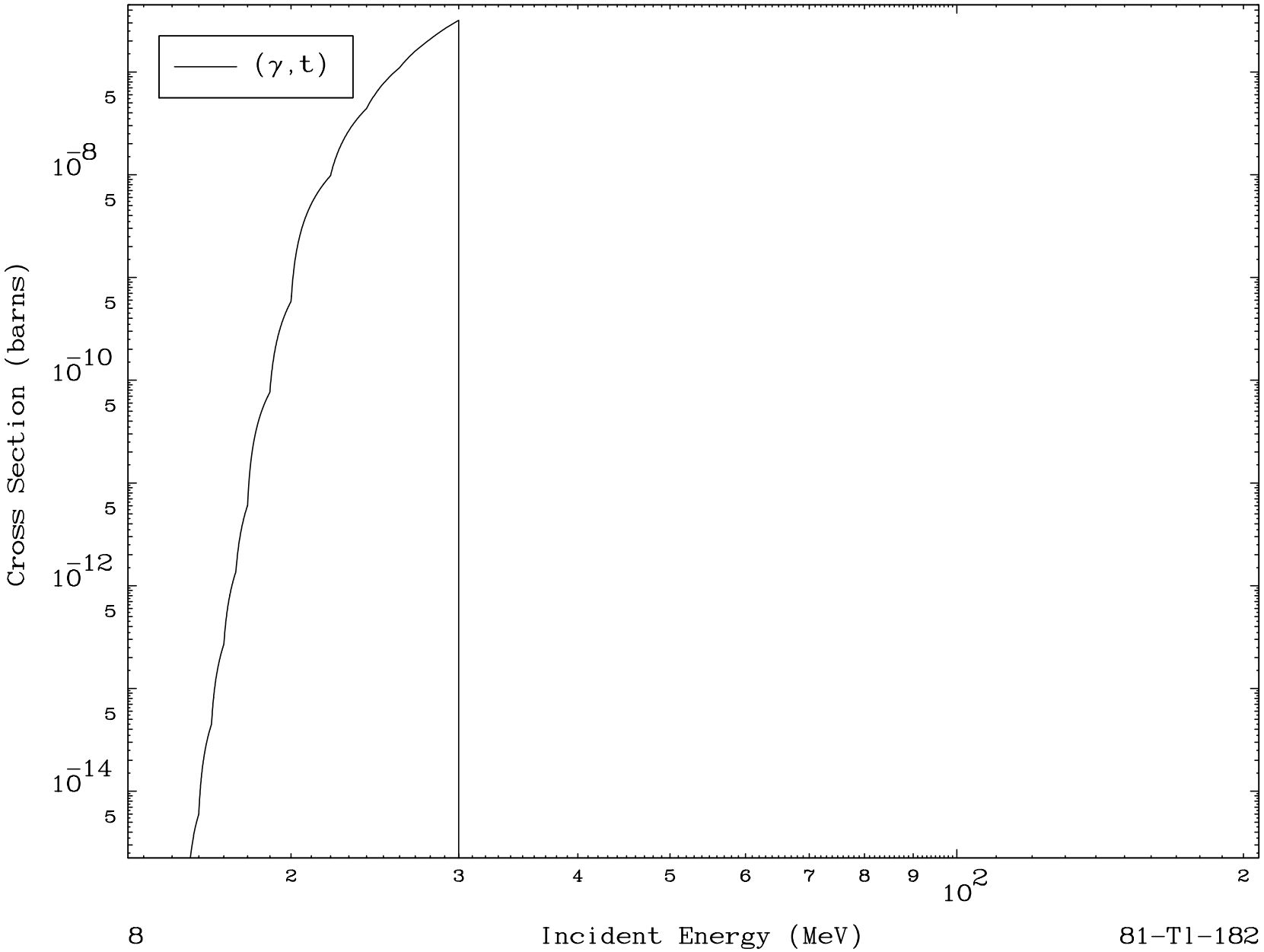

MAT 8062
Photon Charged Particle
0 Kelvin Cross Sections
81-Tl-182
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p
(γ,p)
(γ,d)
(γ,t)
Cross Section (barns)
Incident Energy (MeV)
3
81-Tl-182

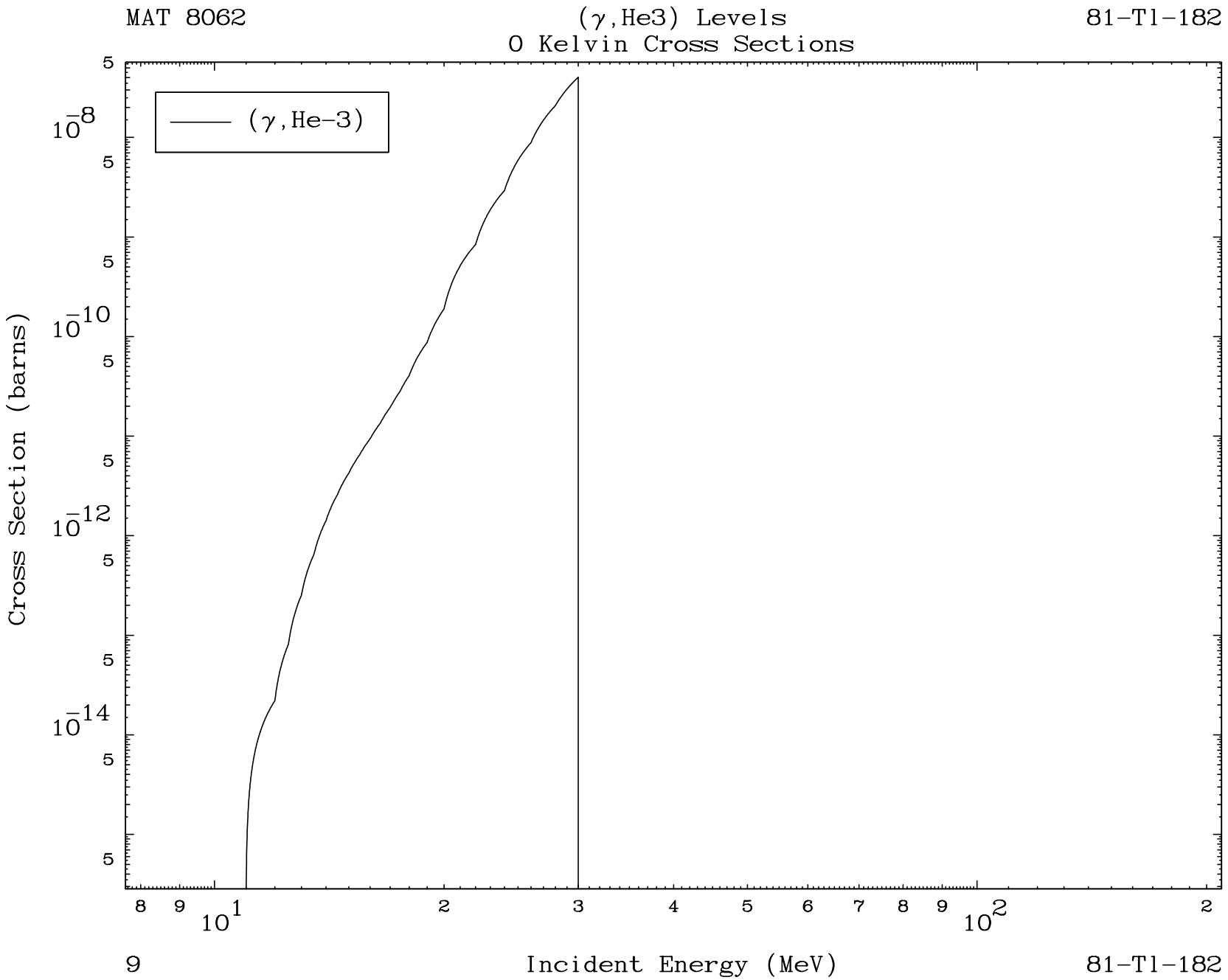

MAT 8062
Photon Charged Particle
0 Kelvin Cross Sections
81-Tl-182
(γ,He-3)
(γ,α)
(γ,2α)
(γ,3α)
(γ,2p)
(γ,p) α
(γ,p) d
(γ,p) t
Cross Section (barns)
Incident Energy (MeV)
4
81-Tl-182

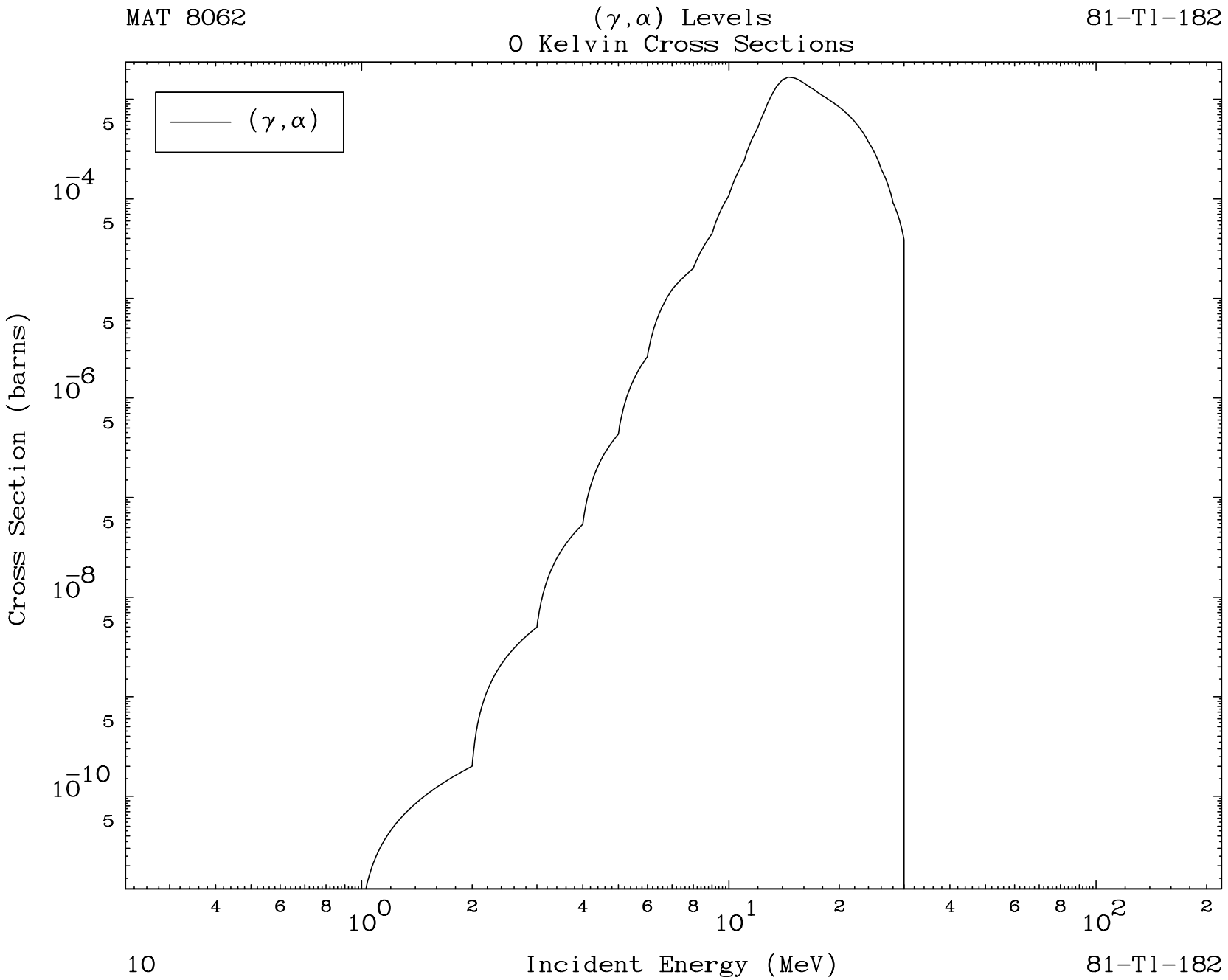

MAT 8062
(γ,n') Level
81-Tl-182
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
81-Tl-182

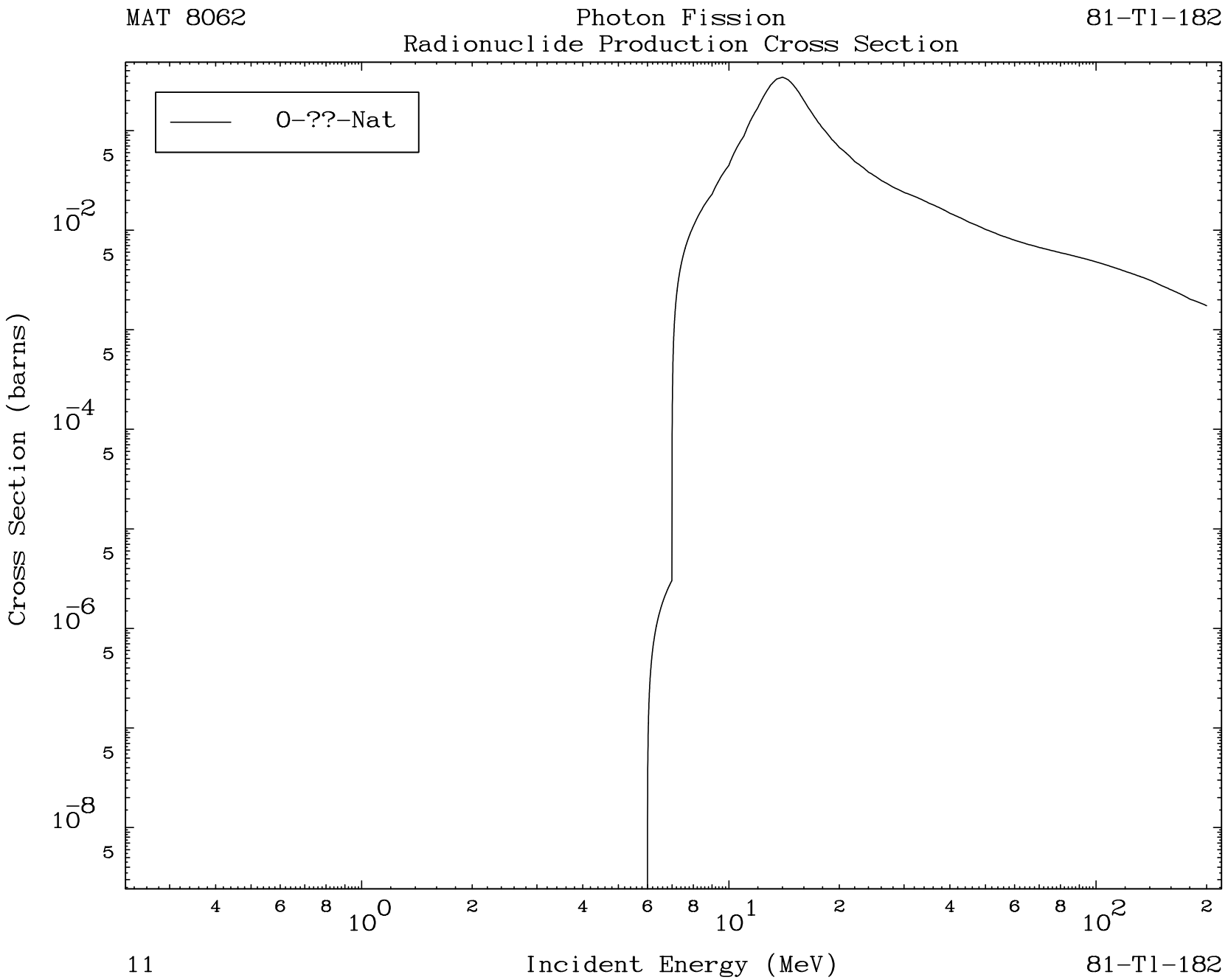

MAT 8062
(γ,p) Levels
81-Tl-182
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
6
81-Tl-182

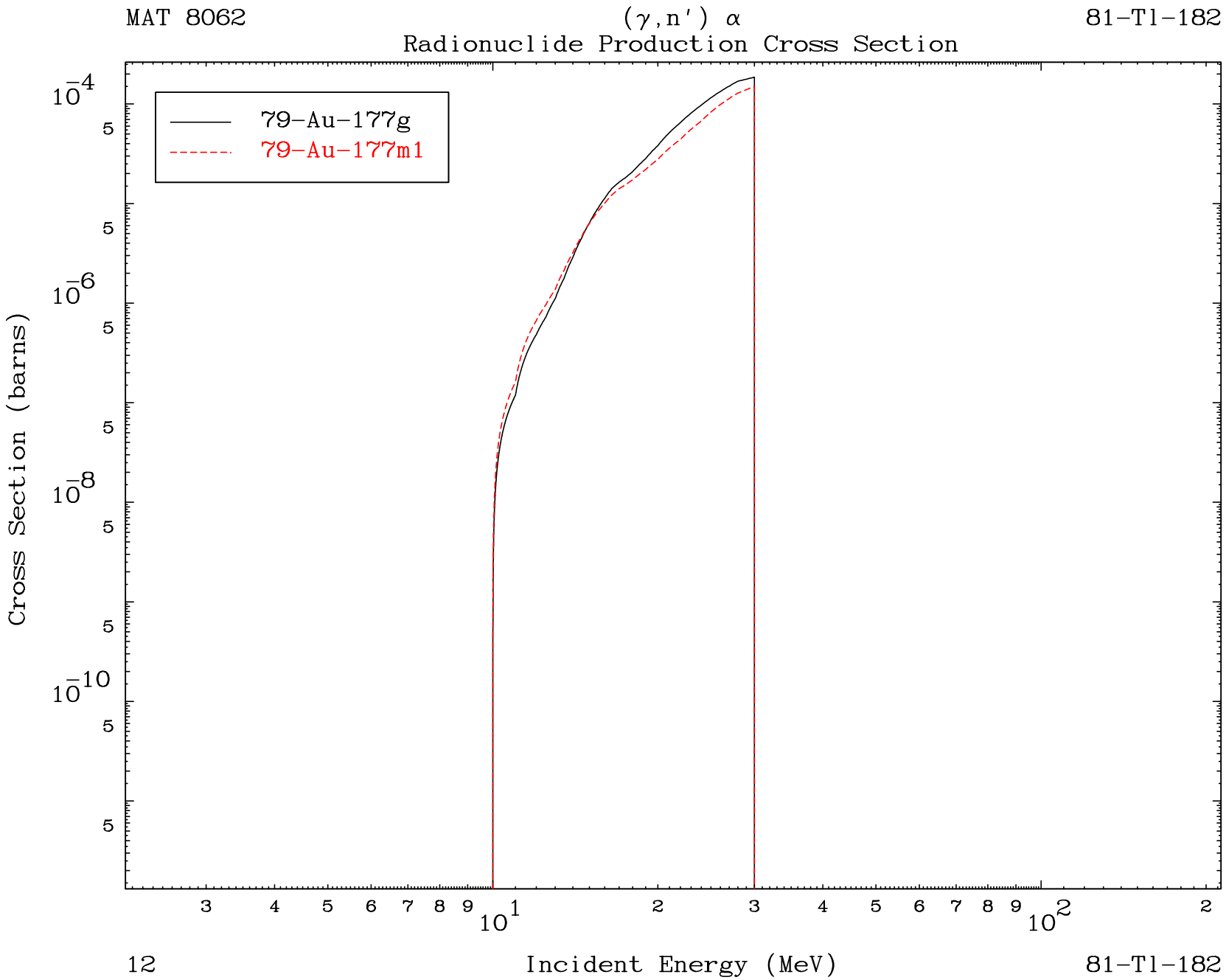

MAT 8062
(γ,d) Levels
81-Tl-182
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
Incident Energy (MeV)
81-Tl-182
7

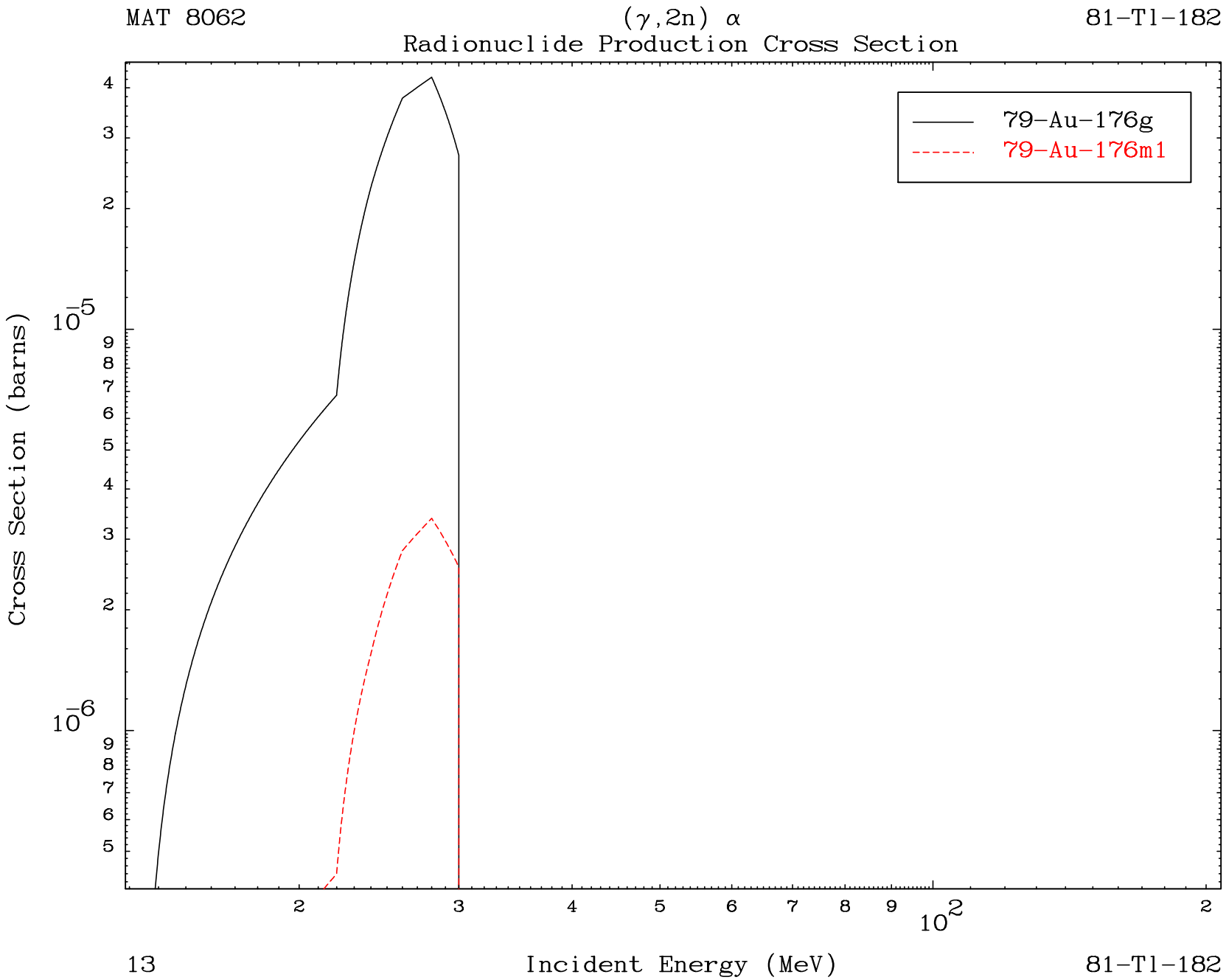

0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

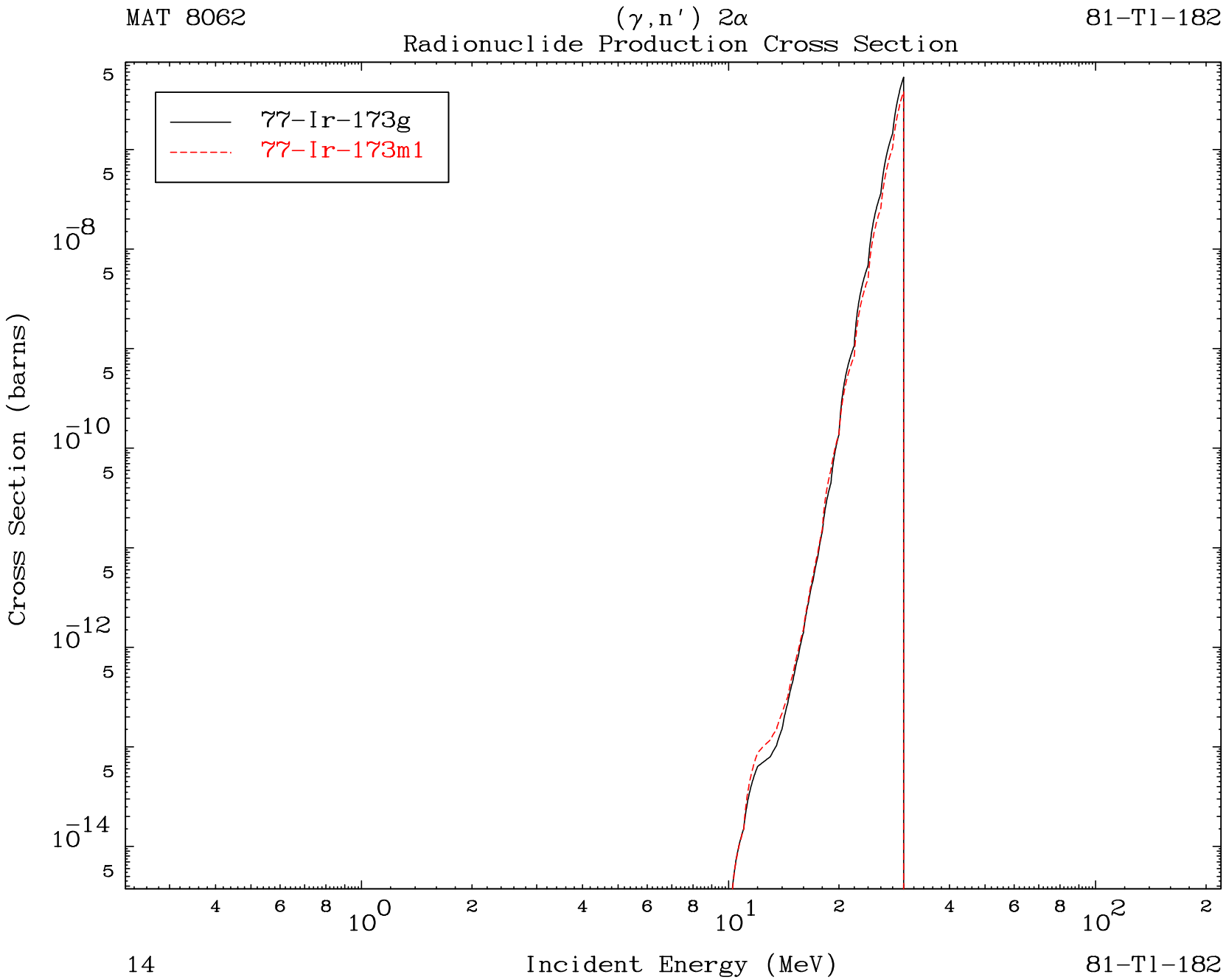

MAT 8062
(γ,He3) Levels
81-Tl-182
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
9
81-Tl-182

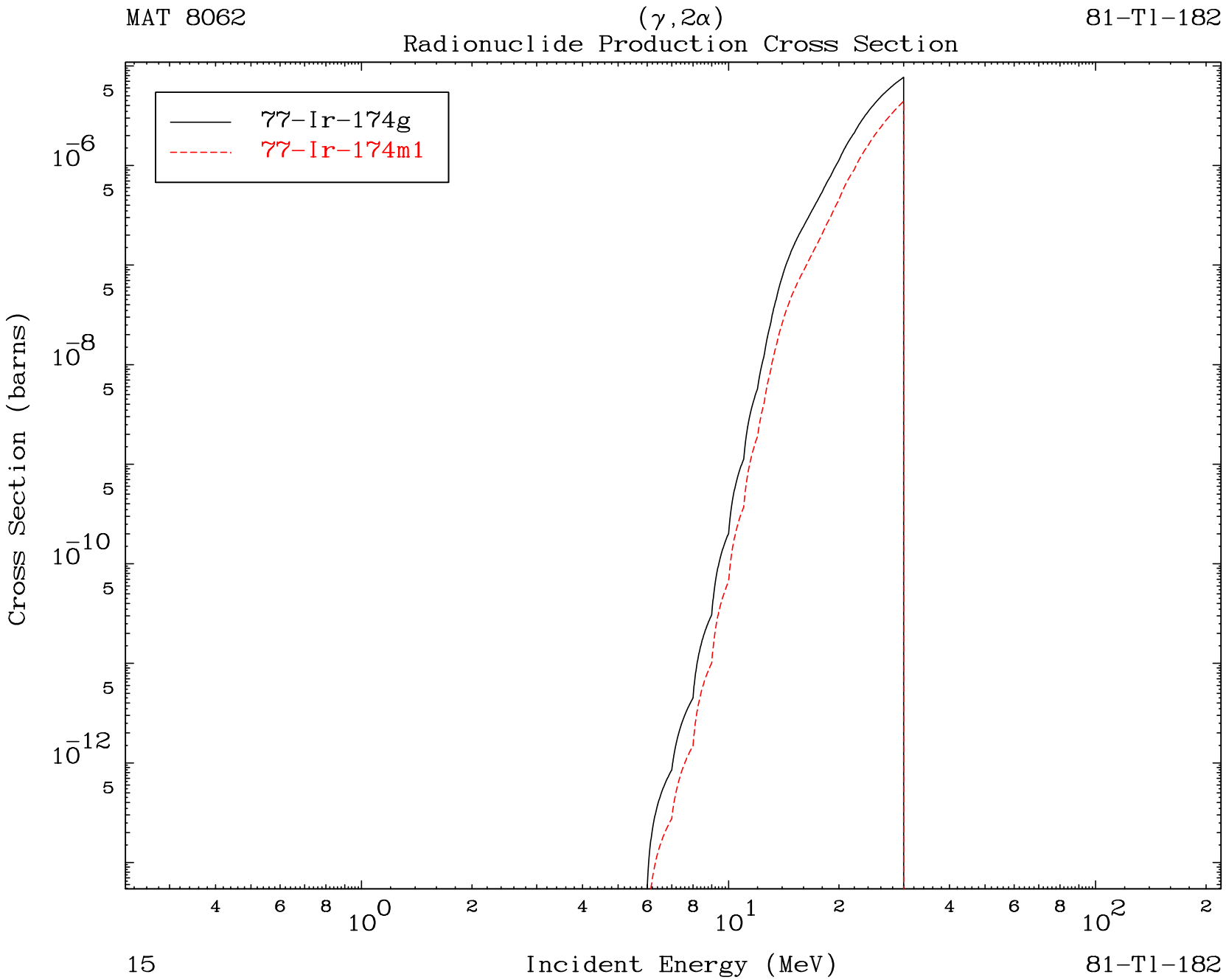

MAT 8062
(γ,α) Levels
81-Tl-182
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
81-Tl-182


MAT 8062
Photon Fission
81-Tl-182
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
11
81-Tl-182


MAT 8062
(γ,n') α
81-Tl-182
Radionuclide Production Cross Section
79-Au-177g
79-Au-177m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
3 4 5 6 7 8 9
10^1
2 3 4 5 6 7 8 9
10^2
2
12
Incident Energy (MeV)
81-Tl-182


MAT 8062
(γ,2n) α
81-Tl-182
Radionuclide Production Cross Section
79-Au-176g
79-Au-176m1
Cross Section (barns)
10-5
10-6
Incident Energy (MeV)
10^2
13
81-Tl-182


MAT 8062
(γ,n') 2α
81-Tl-182
Radionuclide Production Cross Section
77-Ir-173g
77-Ir-173m1
Cross Section (barns)
Incident Energy (MeV)
14
81-Tl-182


MAT 8062
(γ,2α)
81-Tl-182
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
Incident Energy (MeV)
15
81-Tl-182