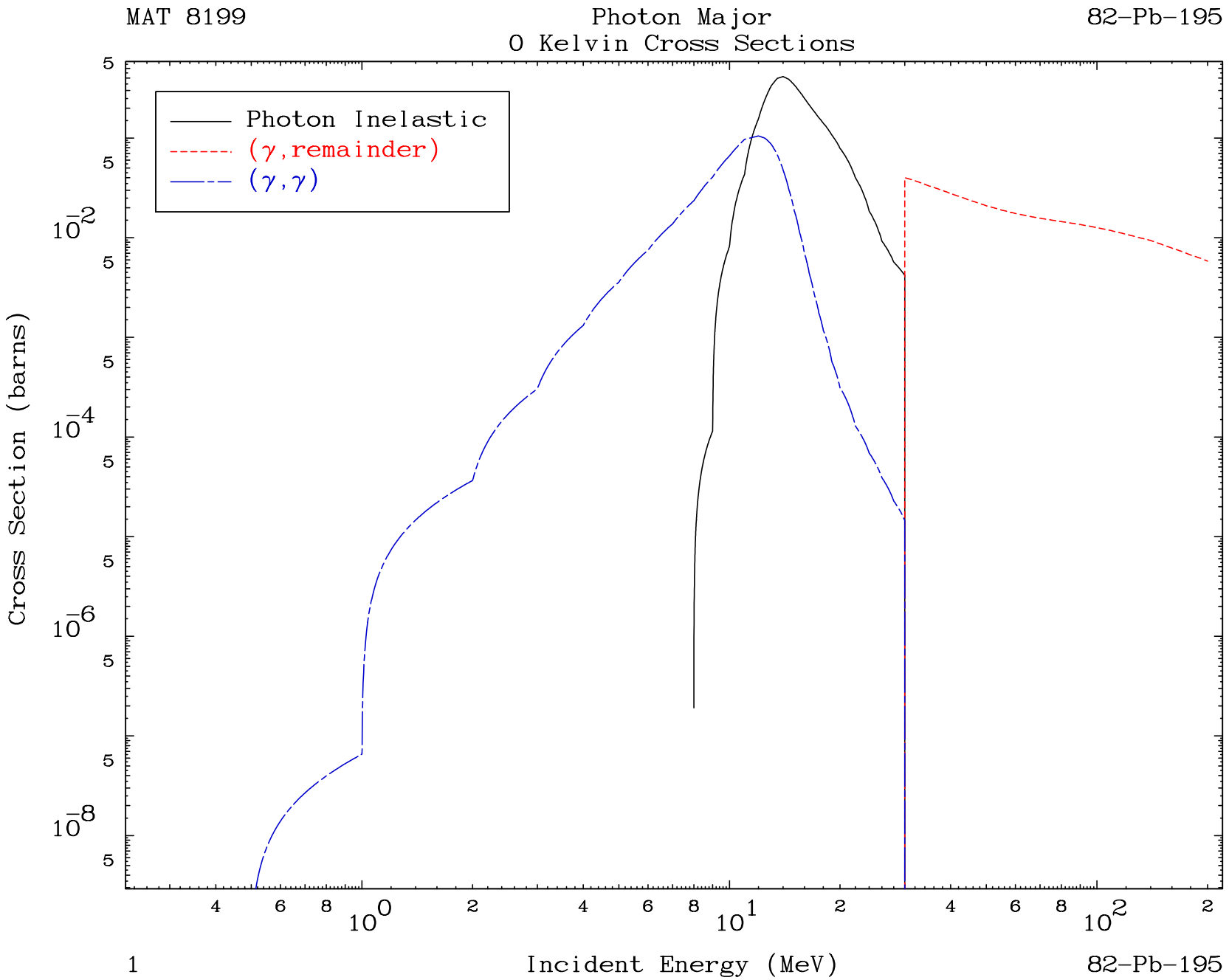
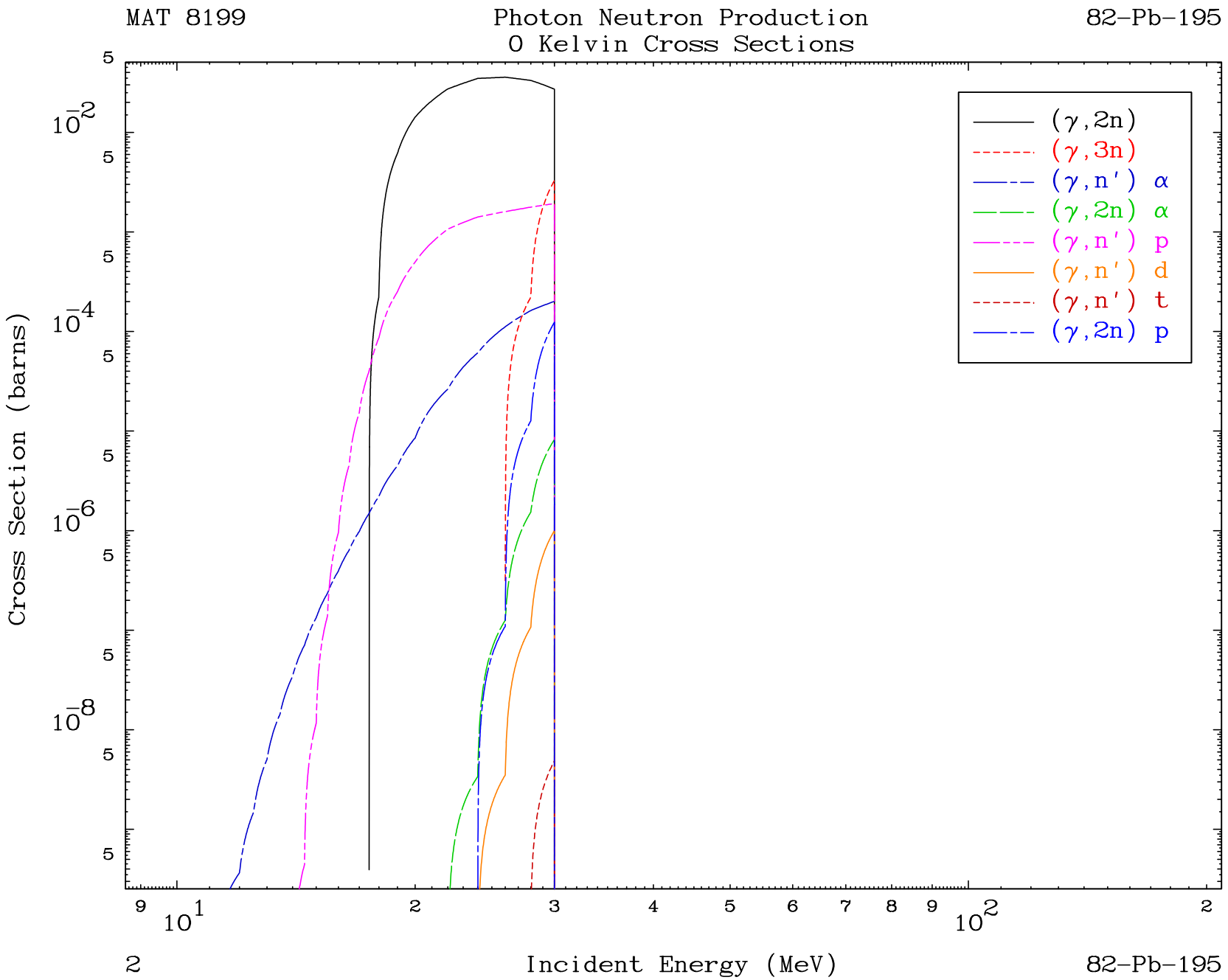
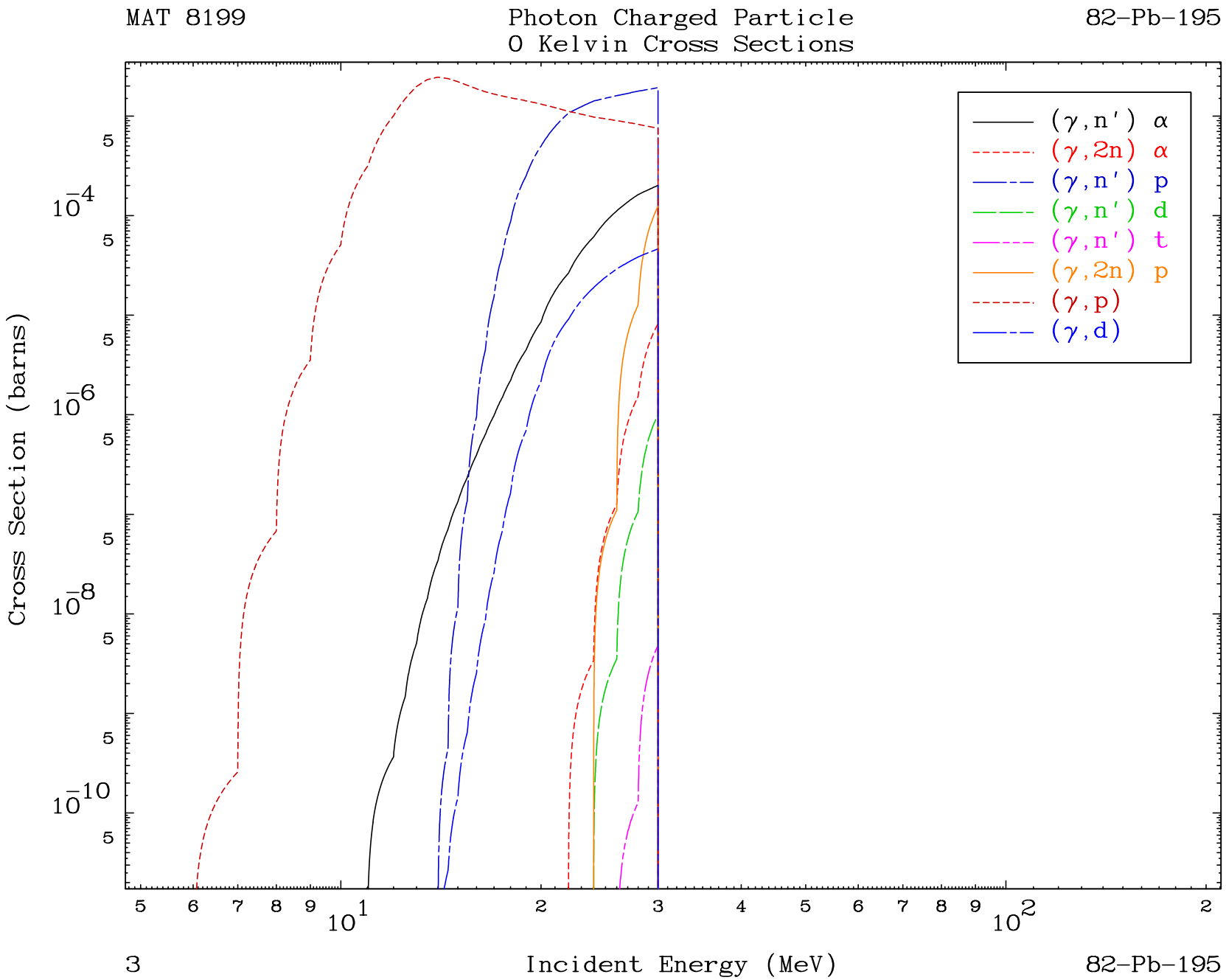
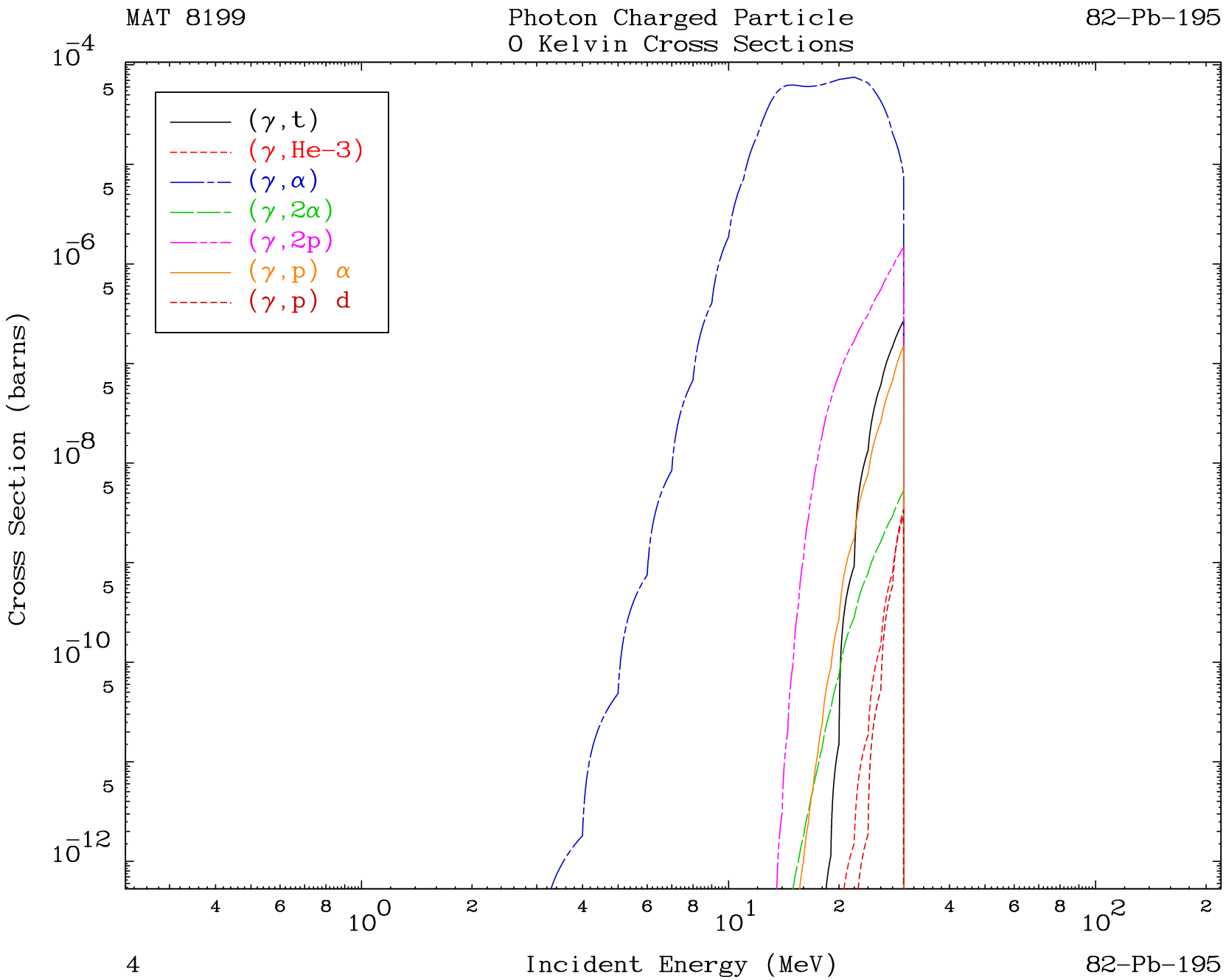
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

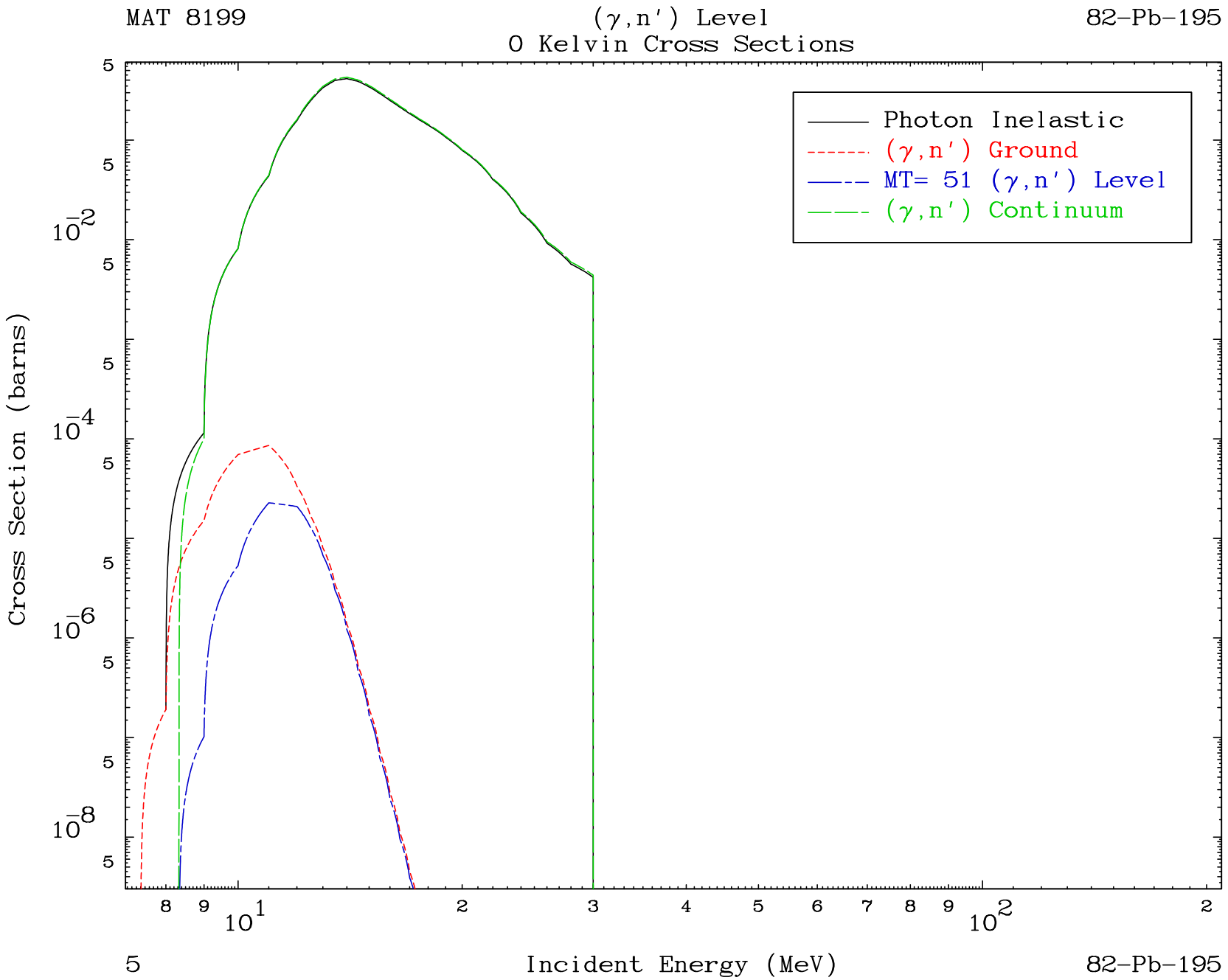
Press Mouse Button to Start

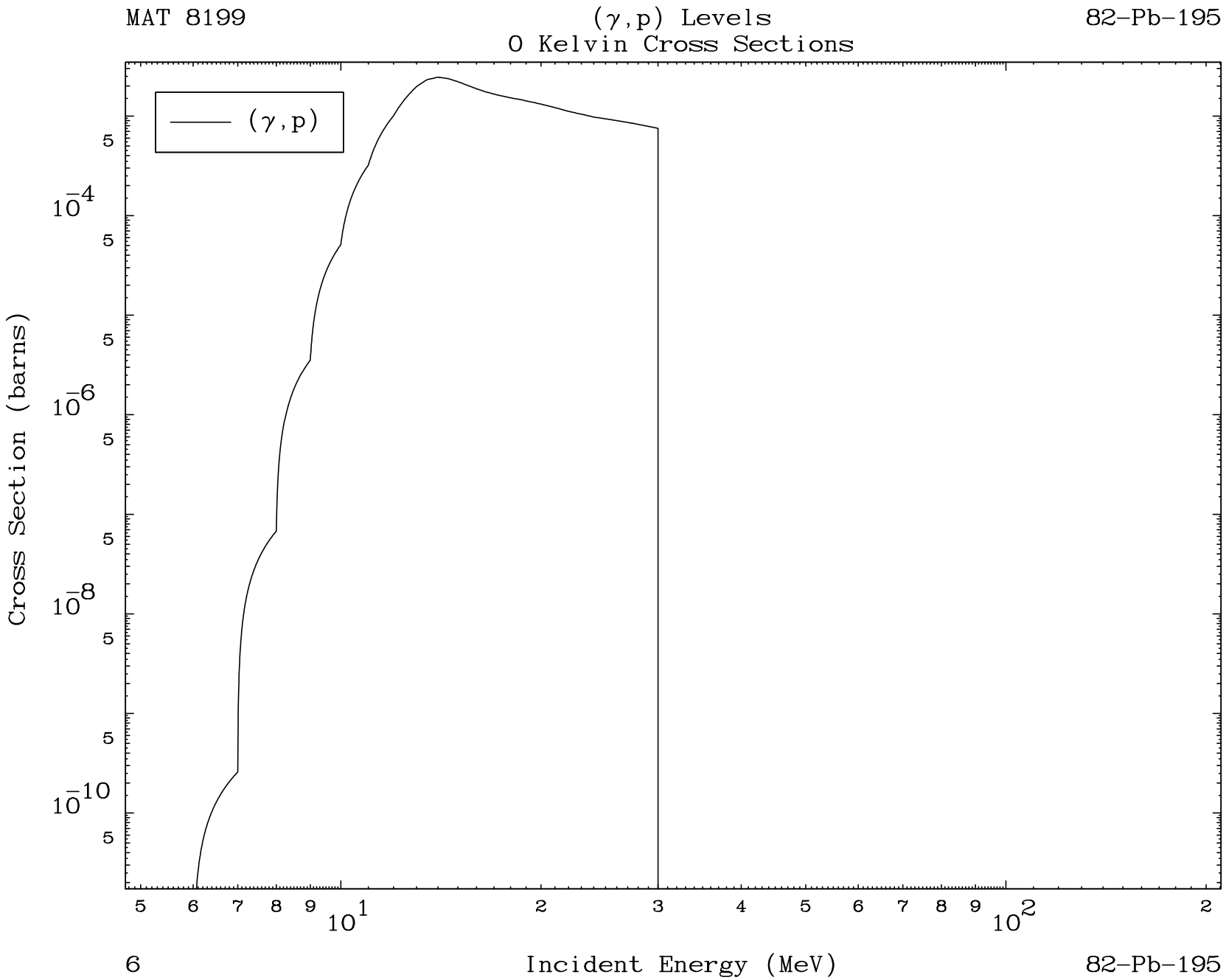

MAT 8199
Photon Major
82-Pb-195
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-195
1

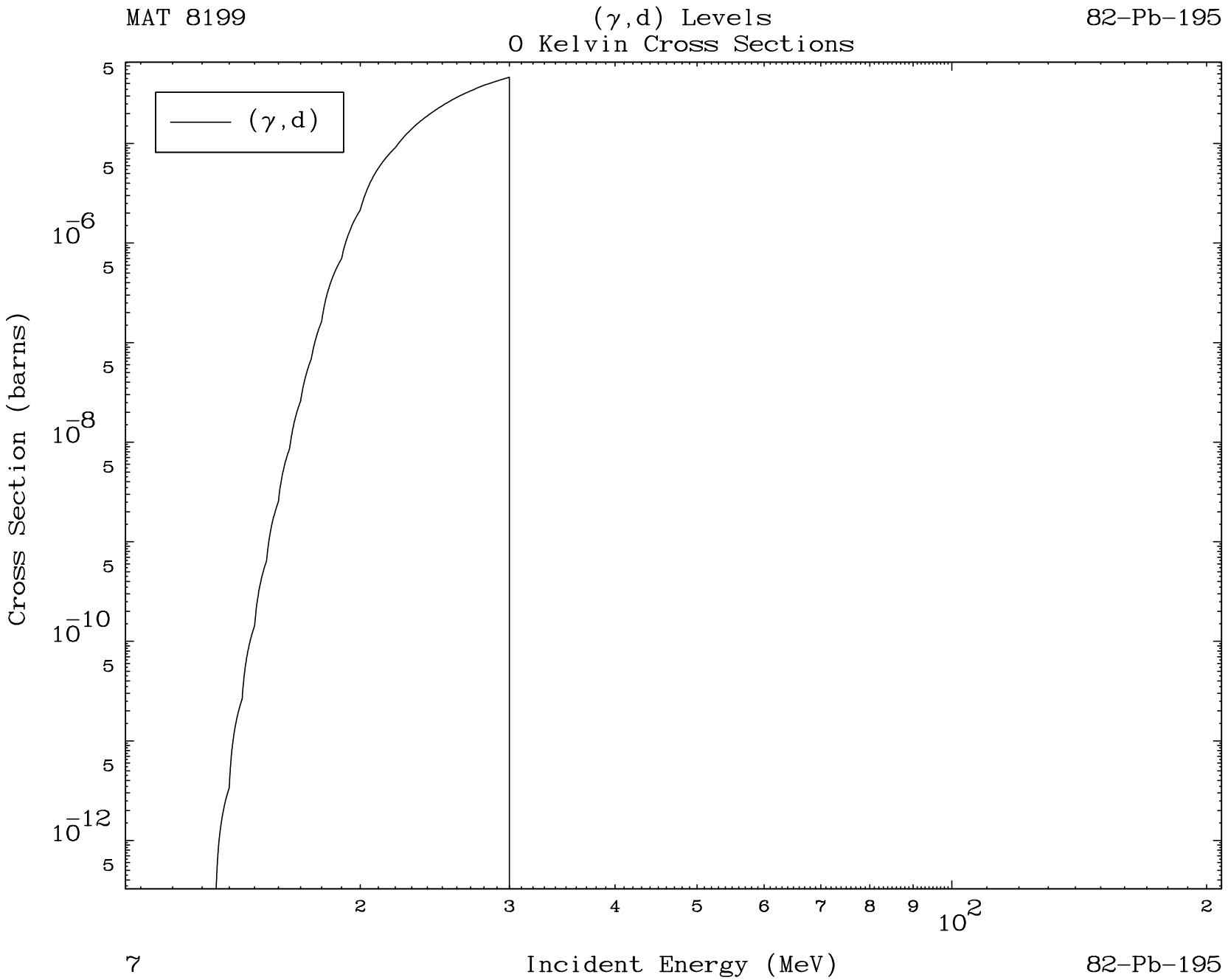

MAT 8199
Photon Neutron Production
0 Kelvin Cross Sections
82-Pb-195
Cross Section (barns)
Incident Energy (MeV)
82-Pb-195
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p

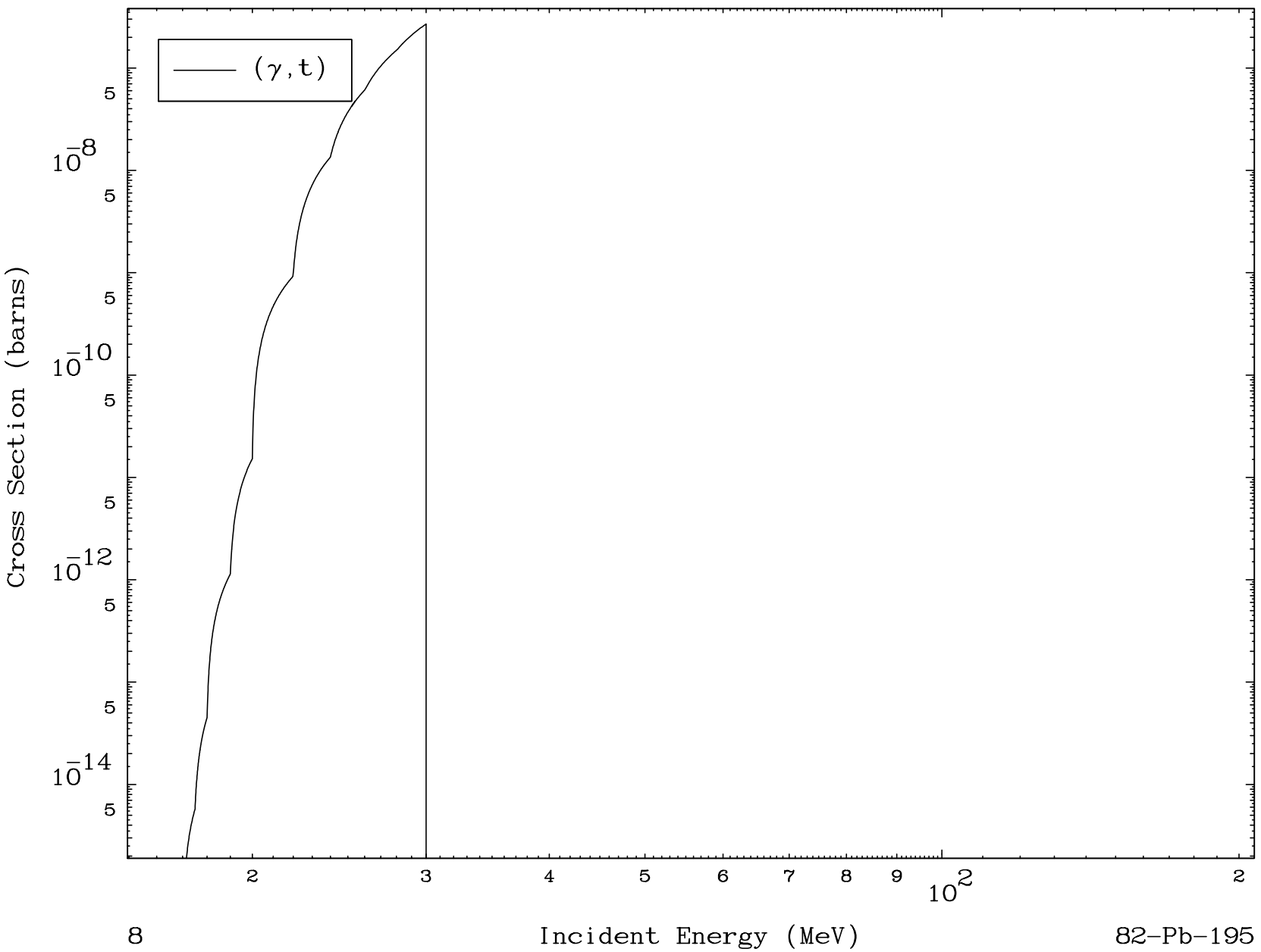

MAT 8199
Photon Charged Particle
0 Kelvin Cross Sections
82-Pb-195
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
(γ,d)
10^1
10^2
Incident Energy (MeV)
3
82-Pb-195

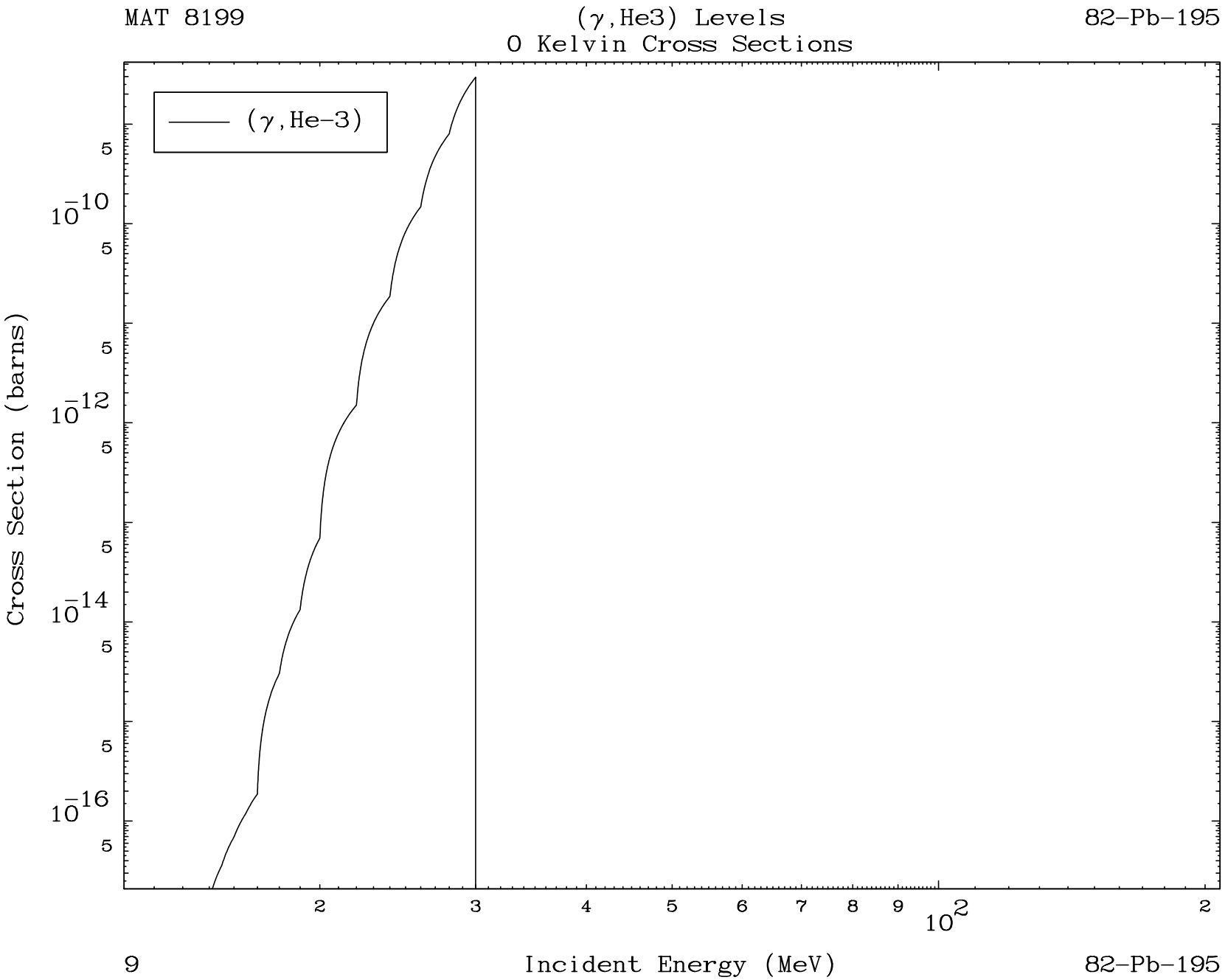

MAT 8199
Photon Charged Particle
0 Kelvin Cross Sections
82-Pb-195
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
Cross Section (barns)
Incident Energy (MeV)
4
82-Pb-195

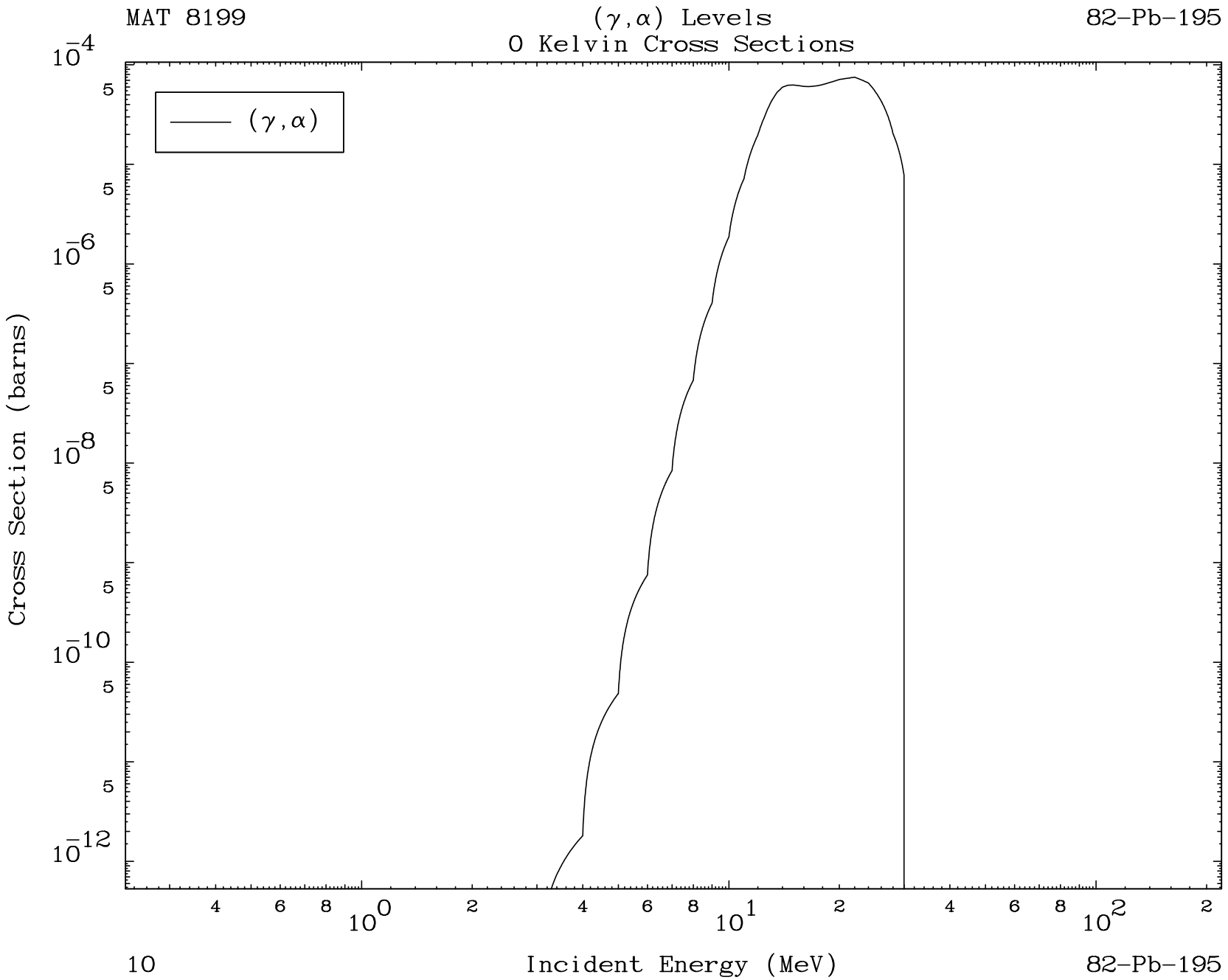

MAT 8199
(γ,n') Level
82-Pb-195
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
82-Pb-195

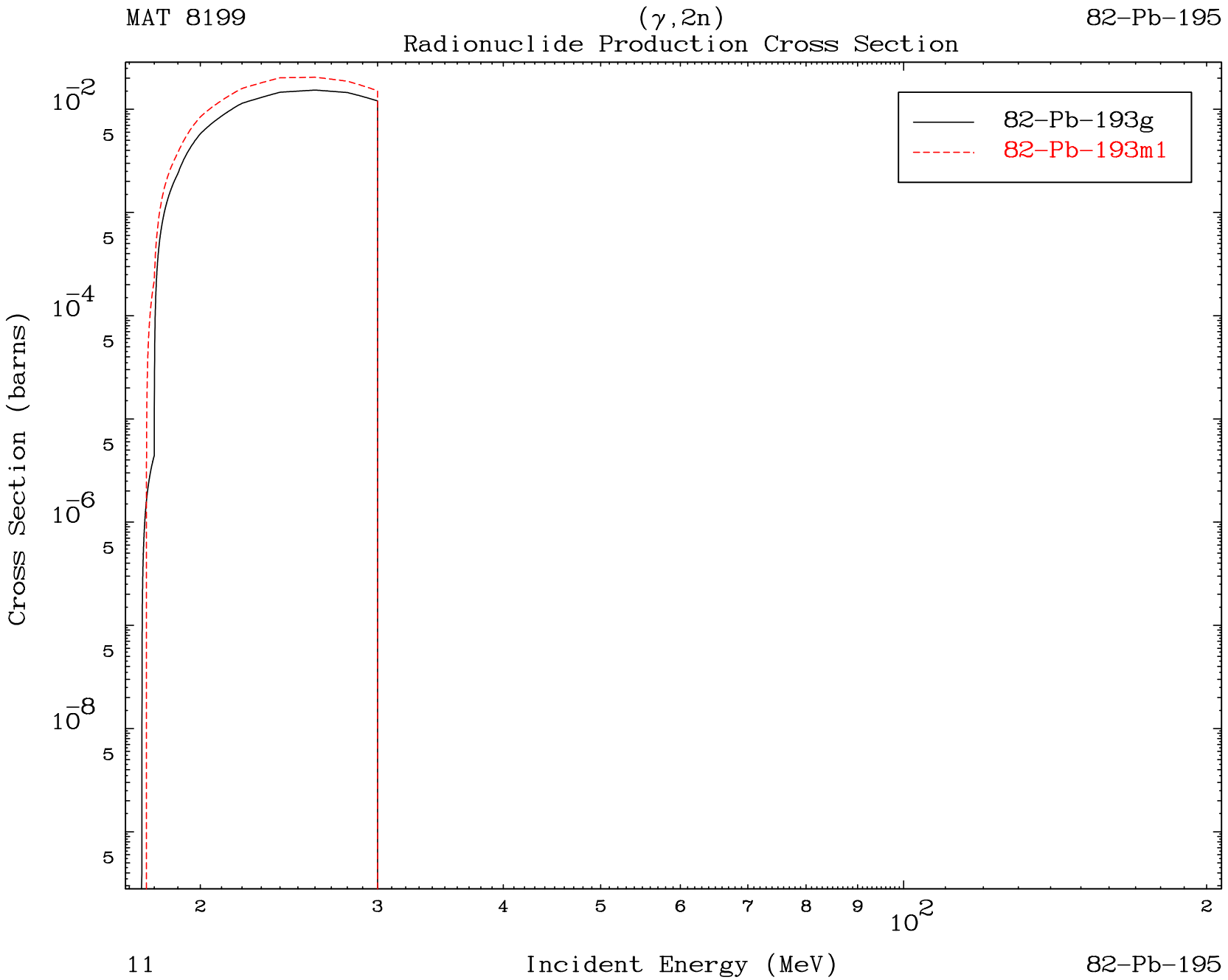

MAT 8199
(γ,p) Levels
82-Pb-195
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^1
2
3
4
10^2
Incident Energy (MeV)
6
82-Pb-195

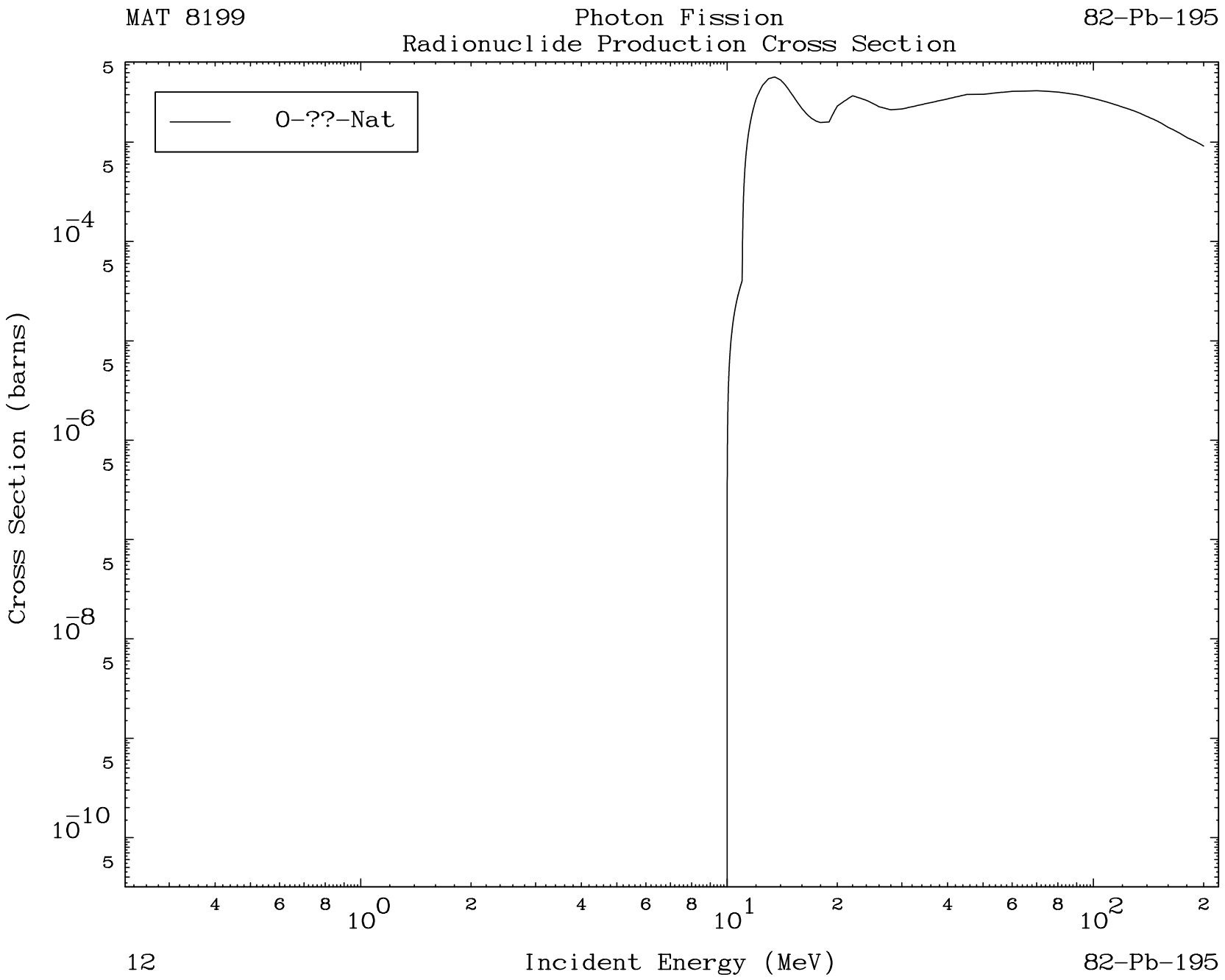

MAT 8199
(γ,d) Levels
82-Pb-195
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
82-Pb-195

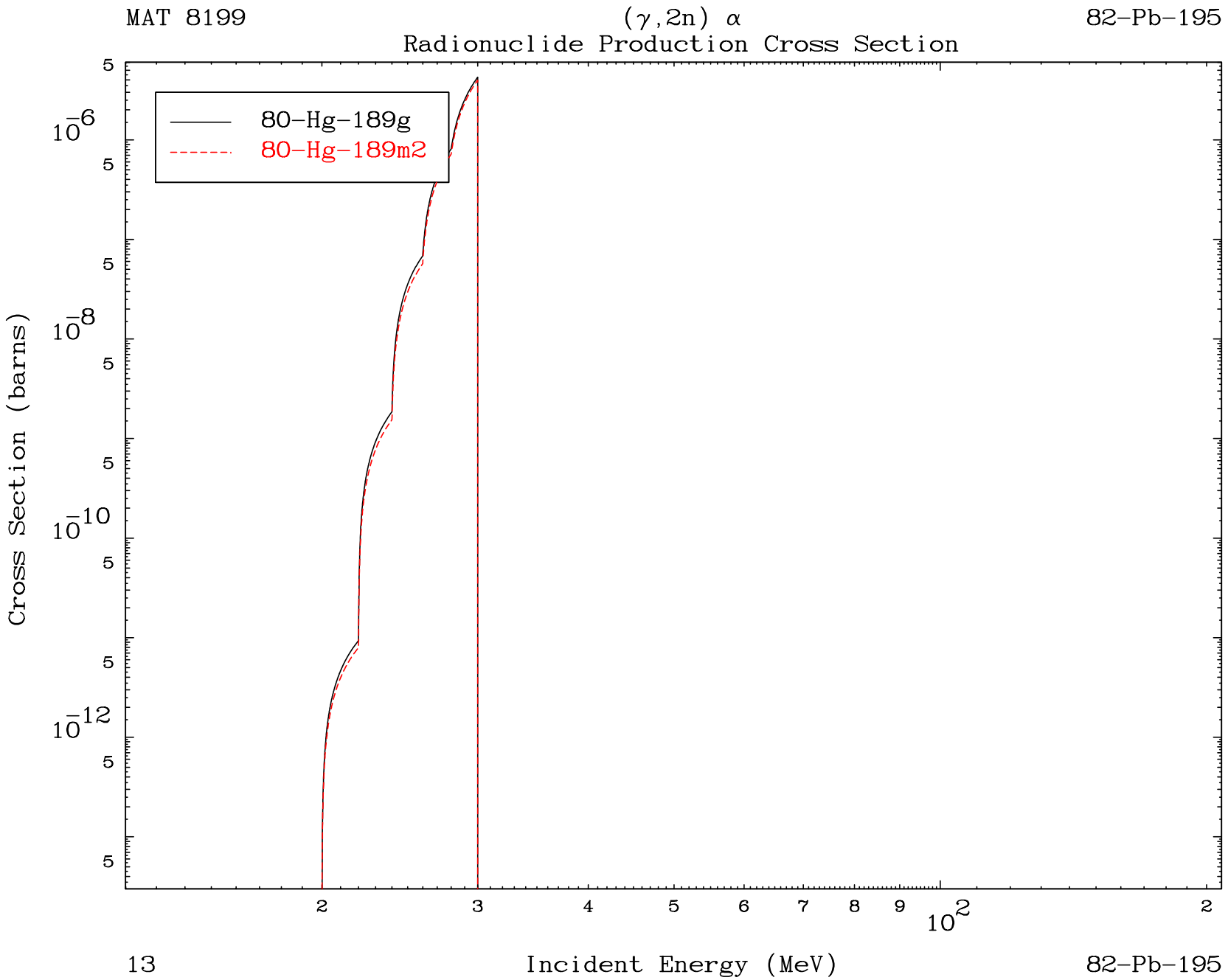

0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

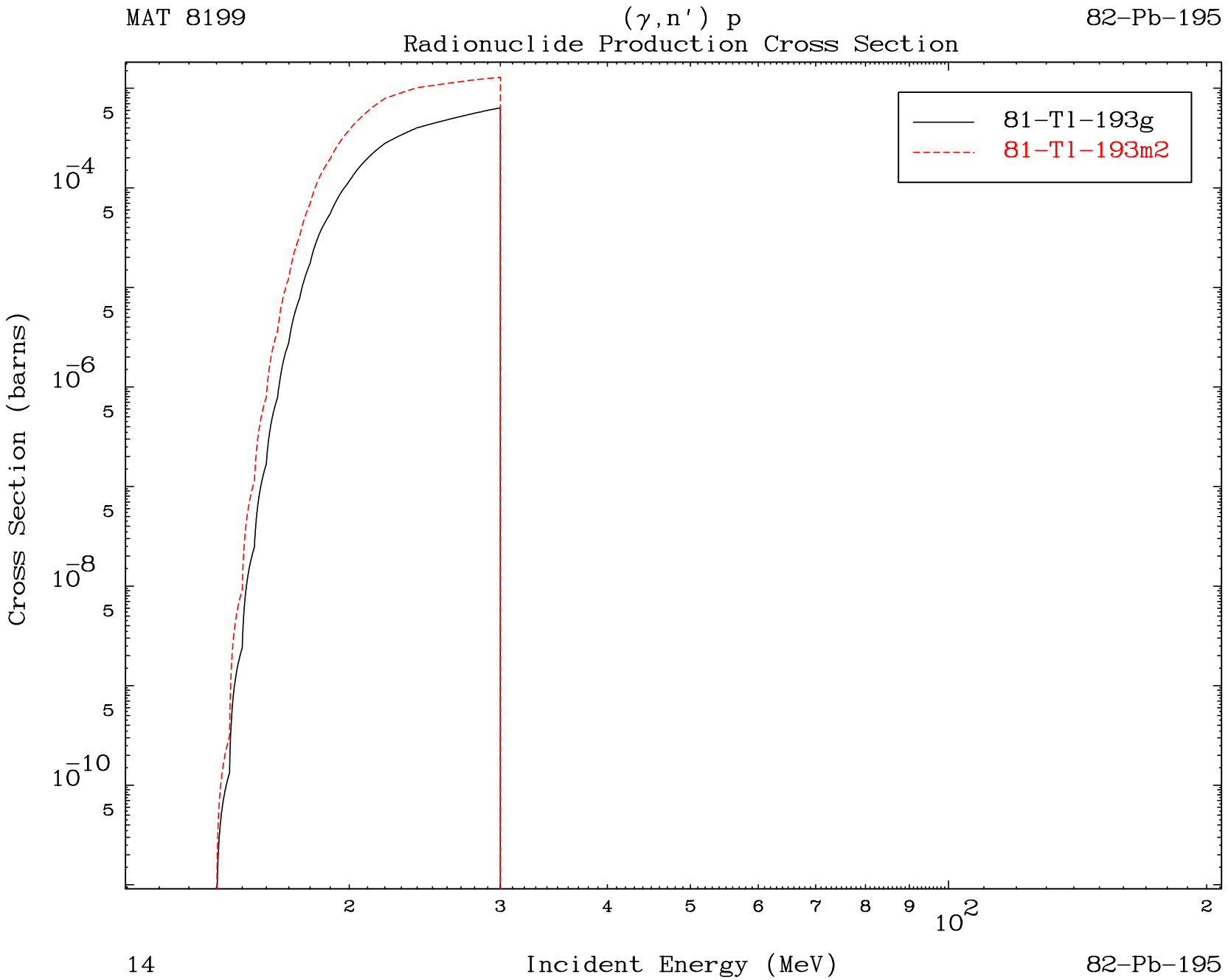

MAT 8199
(γ,He3) Levels
82-Pb-195
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
82-Pb-195

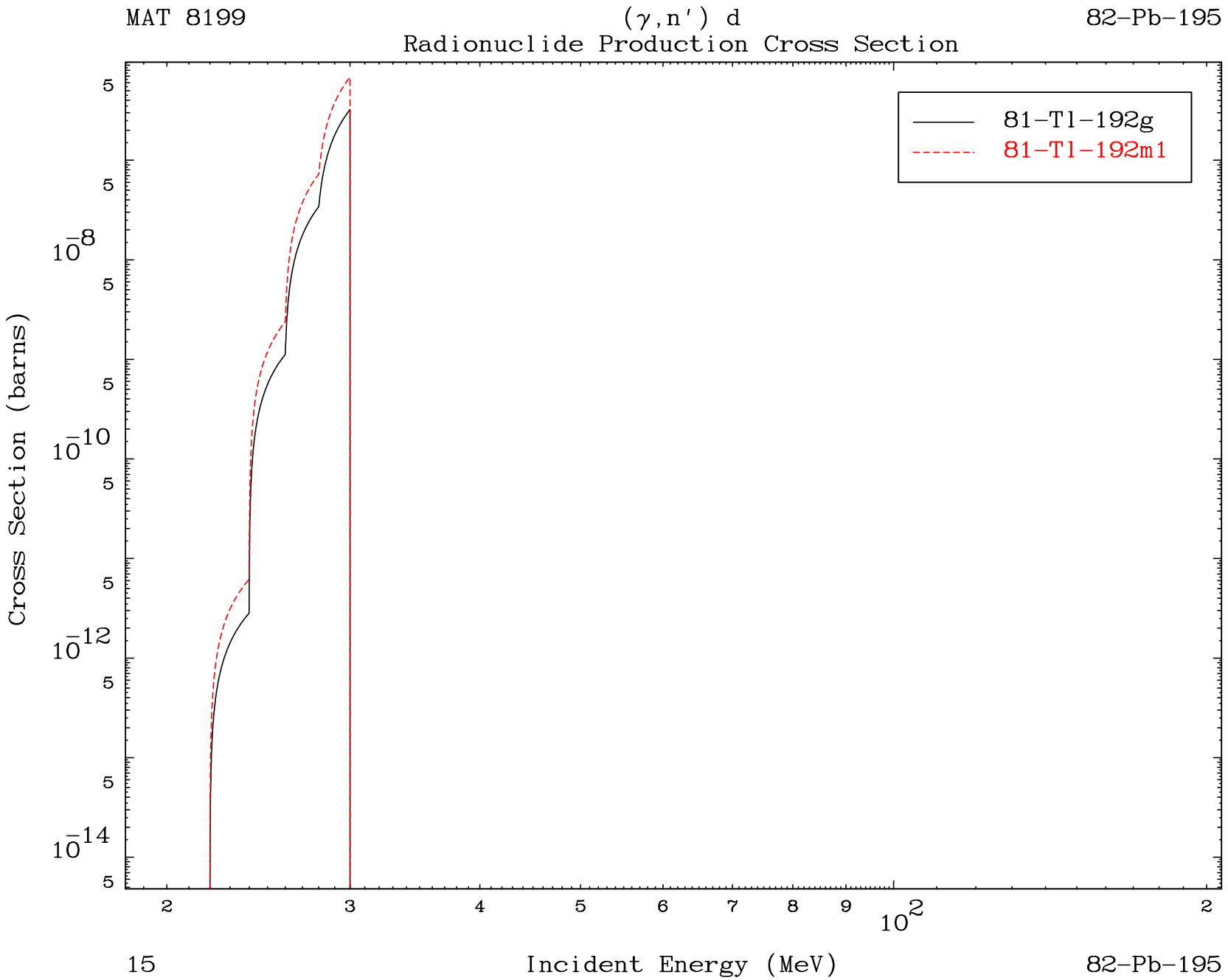

MAT 8199
(γ,α) Levels
82-Pb-195
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-195

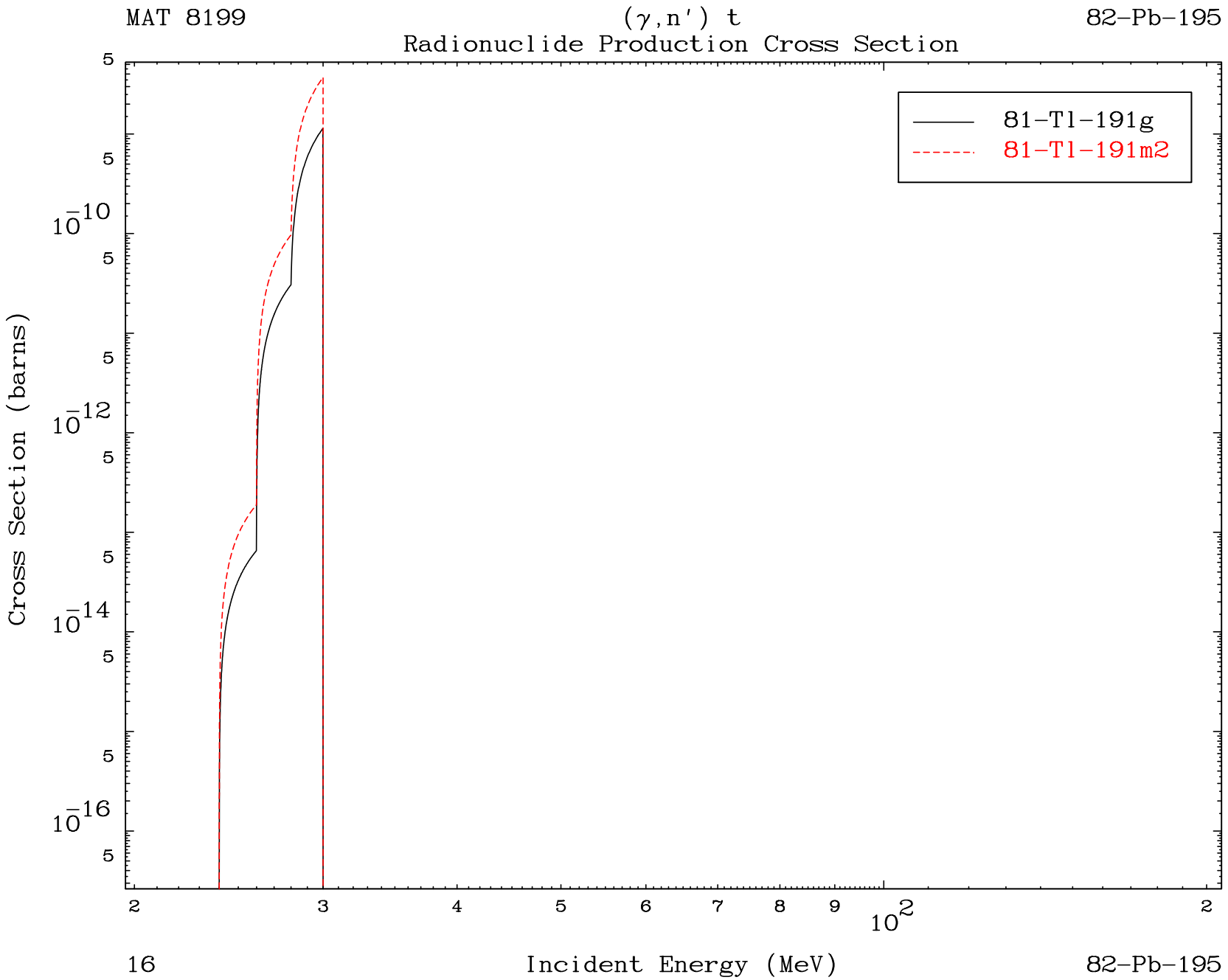

MAT 8199
(γ,2n)
82-Pb-195
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
82-Pb-195

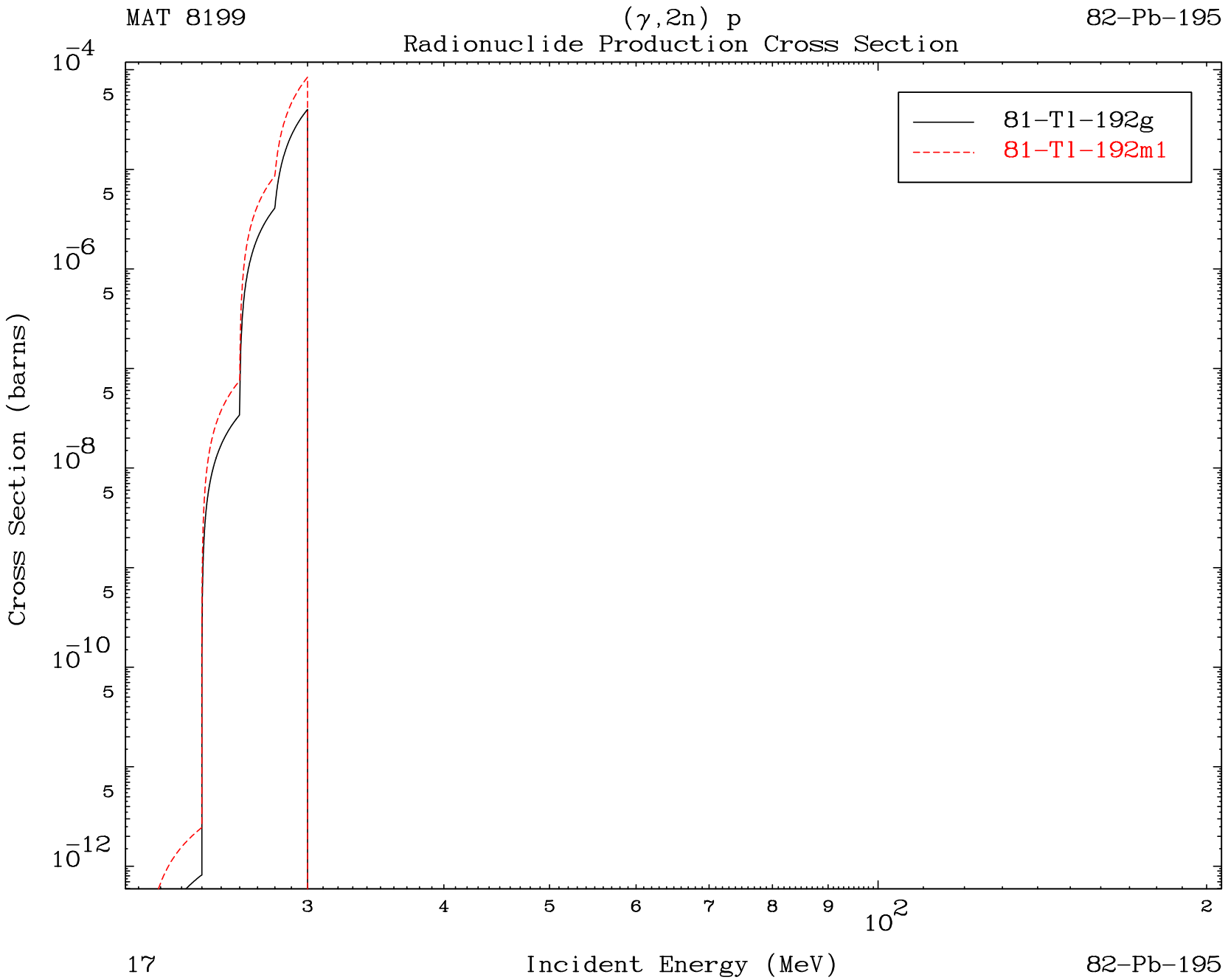

MAT 8199
Photon Fission
82-Pb-195
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
12
82-Pb-195

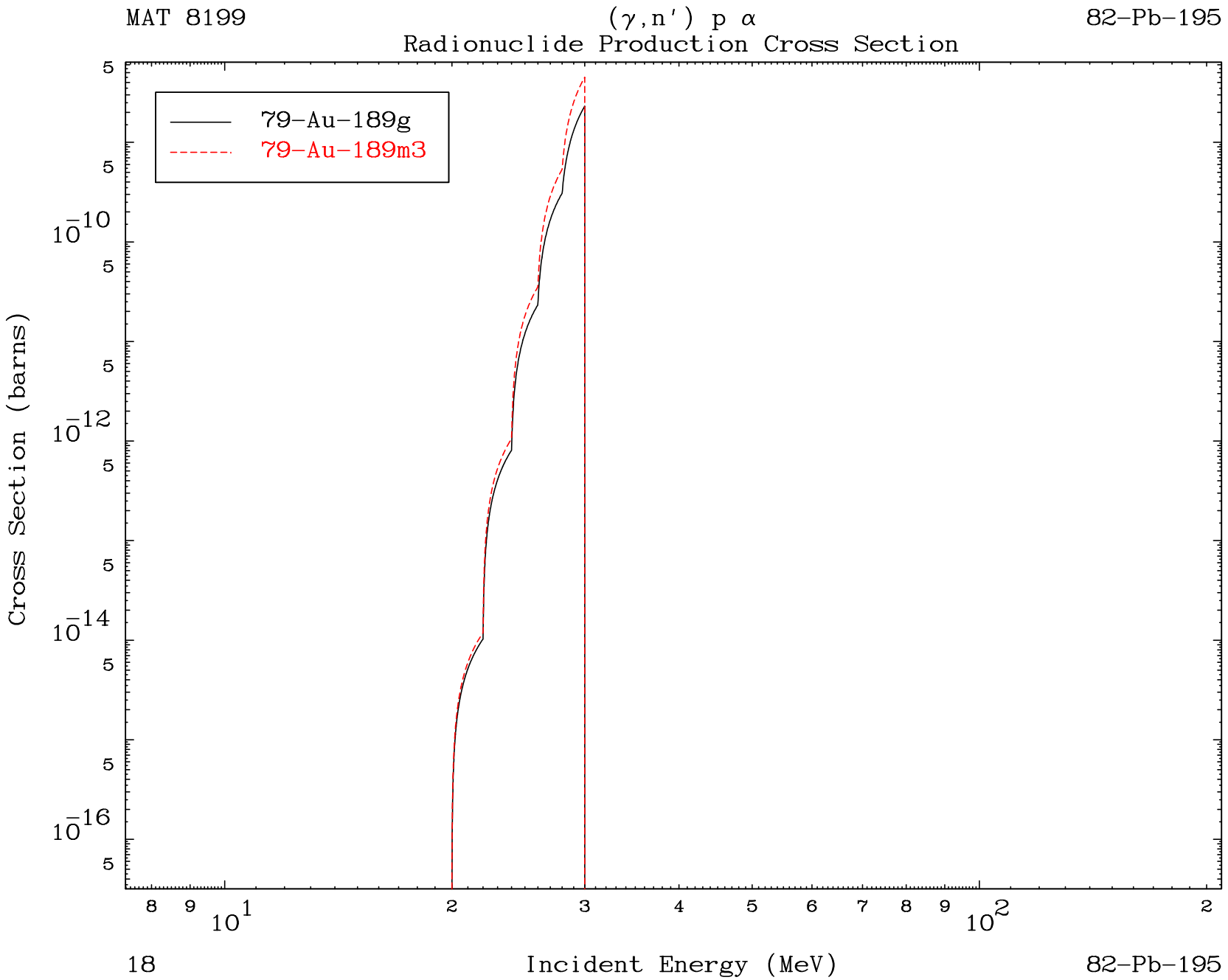

MAT 8199
(γ,2n) α
82-Pb-195
Radionuclide Production Cross Section
80-Hg-189g
80-Hg-189m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
82-Pb-195

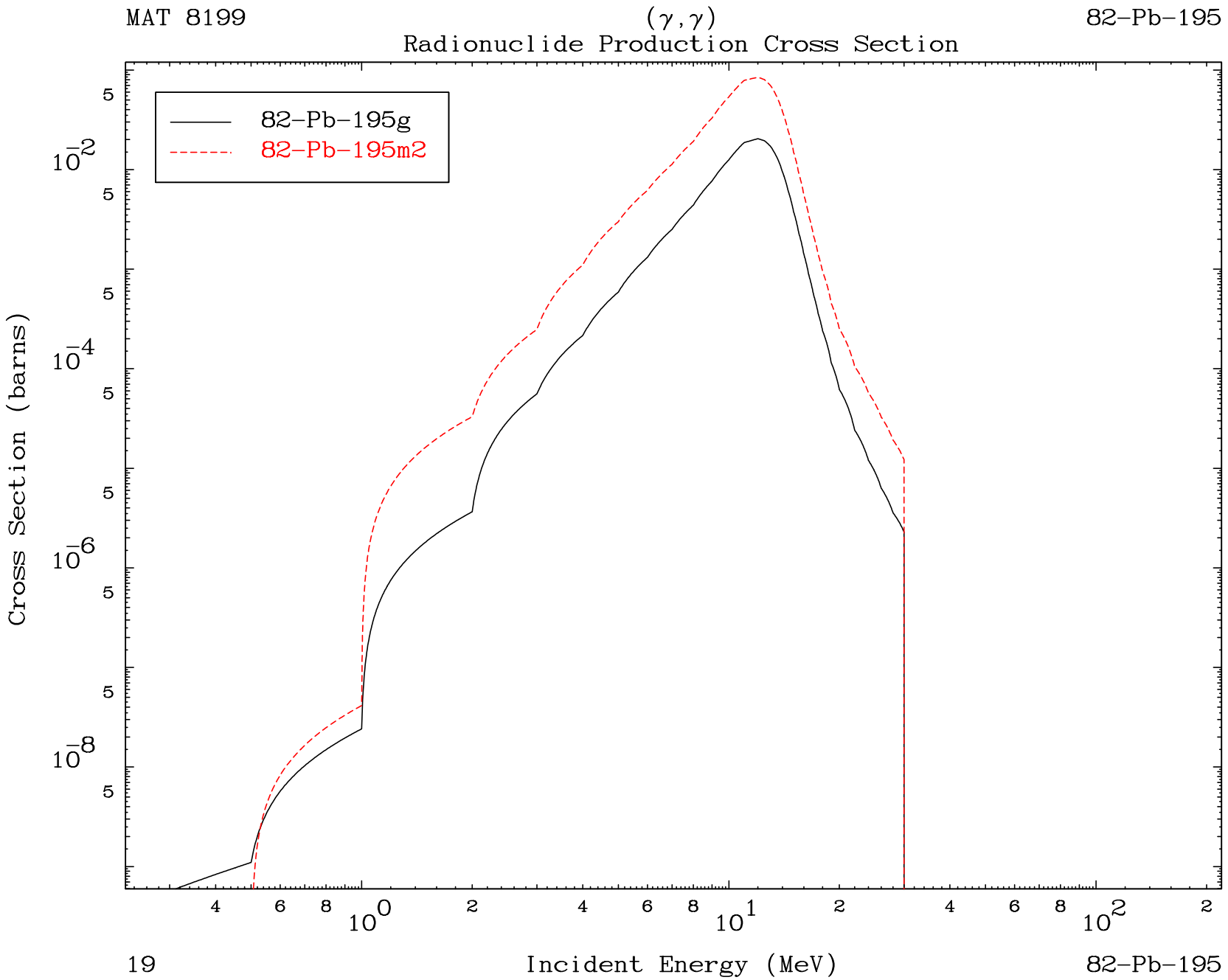

MAT 8199
(γ,n') p
82-Pb-195
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
82-Pb-195

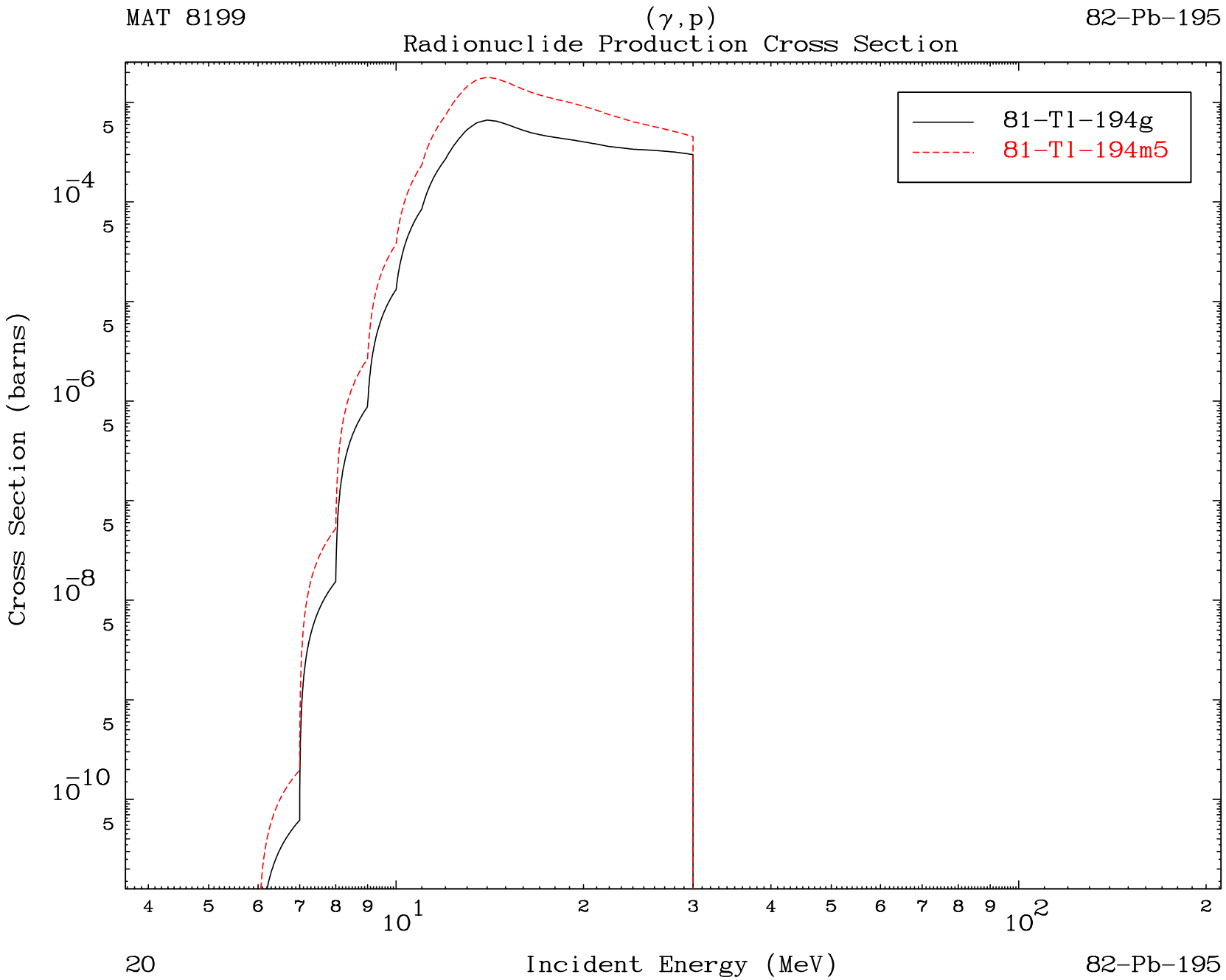

MAT 8199
(γ,n') d
82-Pb-195
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
82-Pb-195

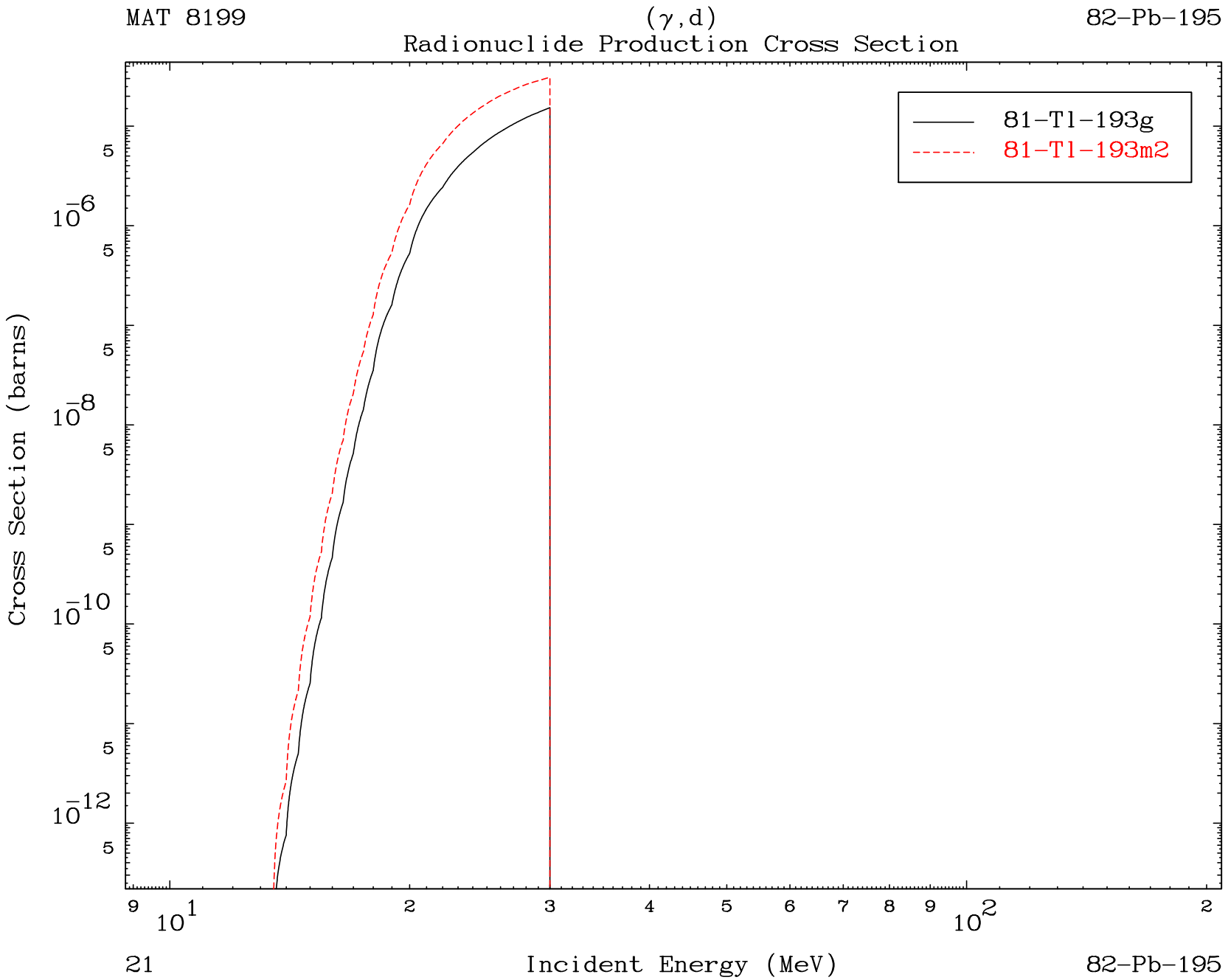

MAT 8199
(γ,n') t
82-Pb-195
Radionuclide Production Cross Section
81-Tl-191g
81-Tl-191m2
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
82-Pb-195

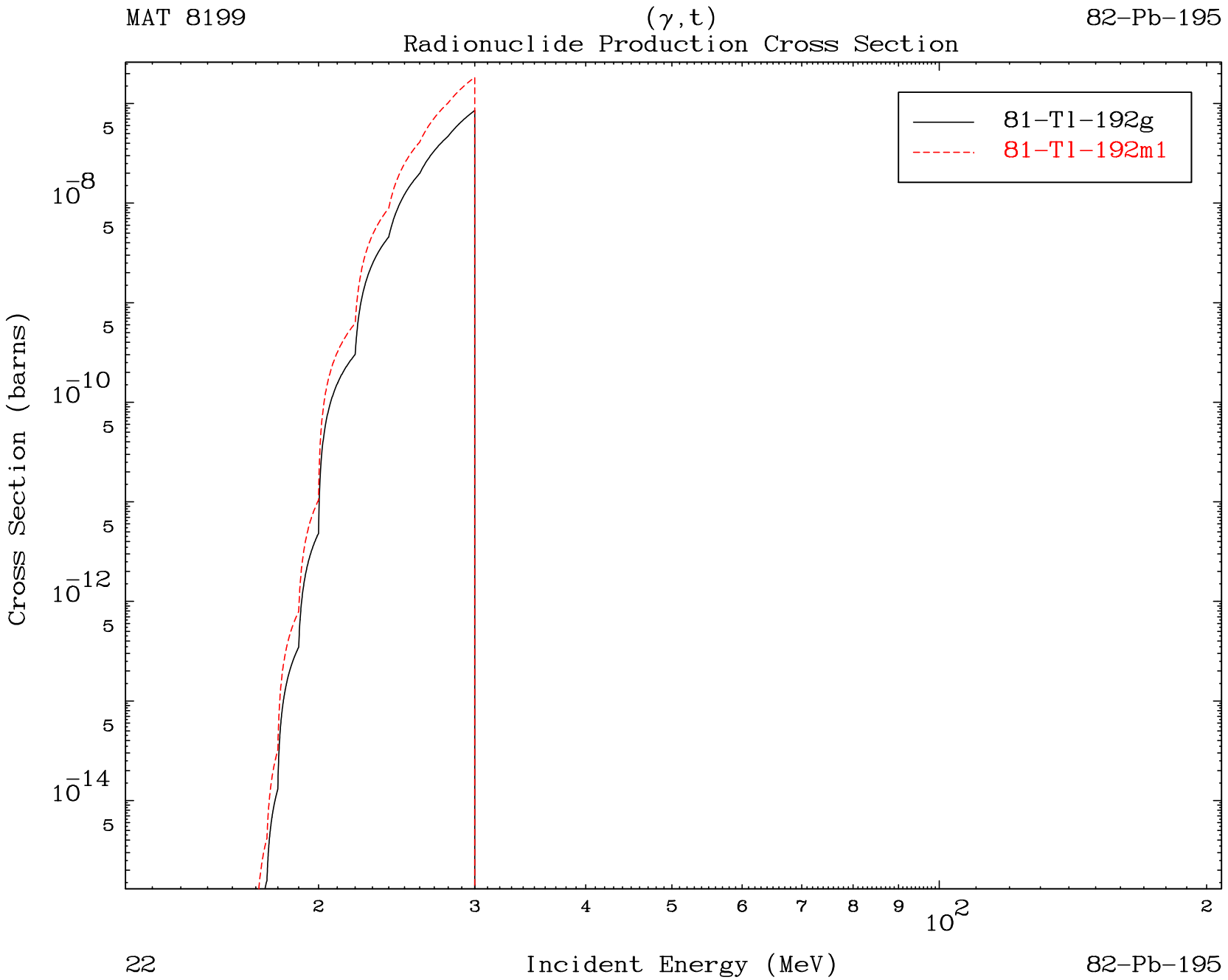

MAT 8199
(γ,2n) p
82-Pb-195
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
Incident Energy (MeV)
17
82-Pb-195

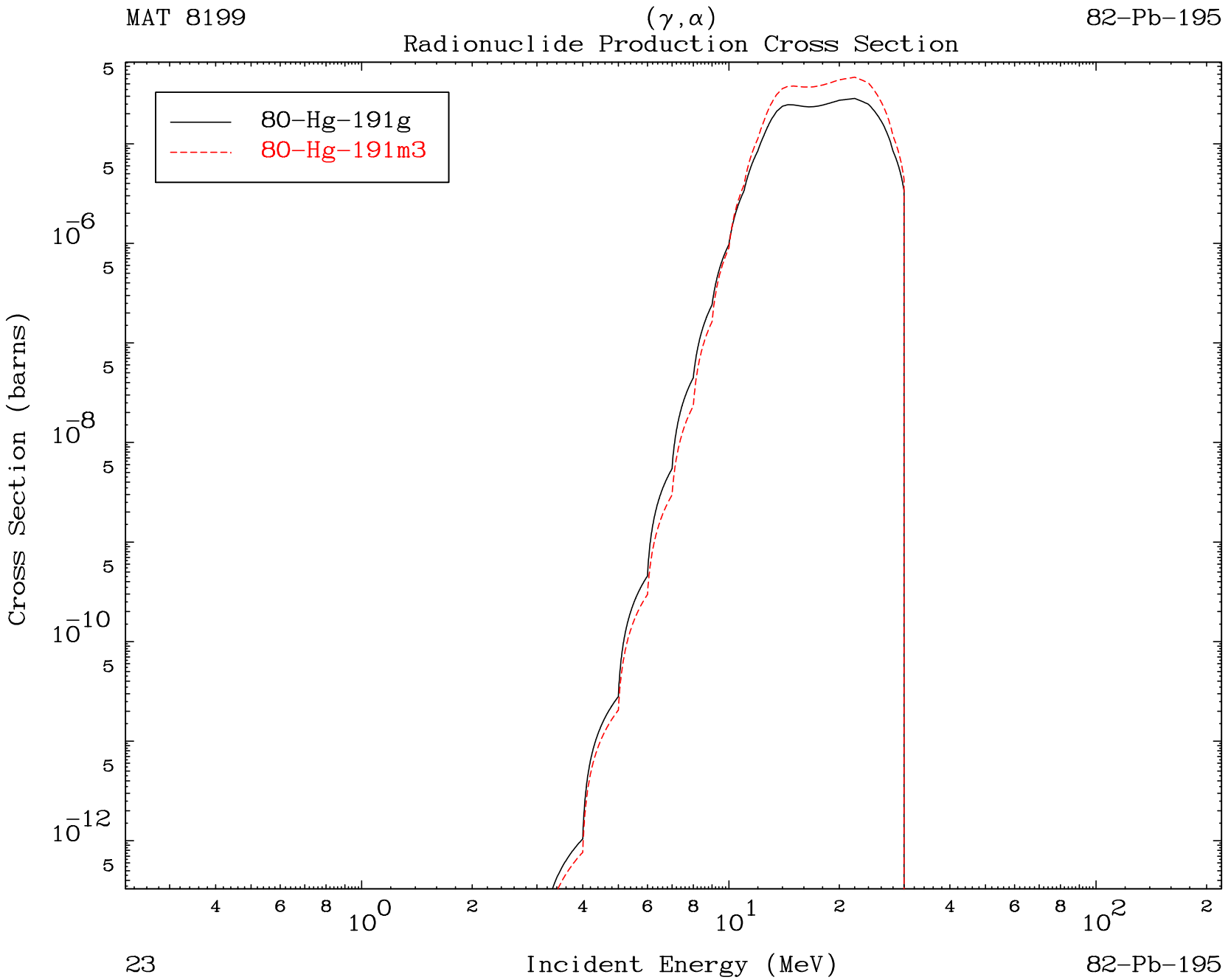

MAT 8199
(γ,n') p α
82-Pb-195
Radionuclide Production Cross Section
79-Au-189g
79-Au-189m3
Cross Section (barns)
Incident Energy (MeV)
18
82-Pb-195

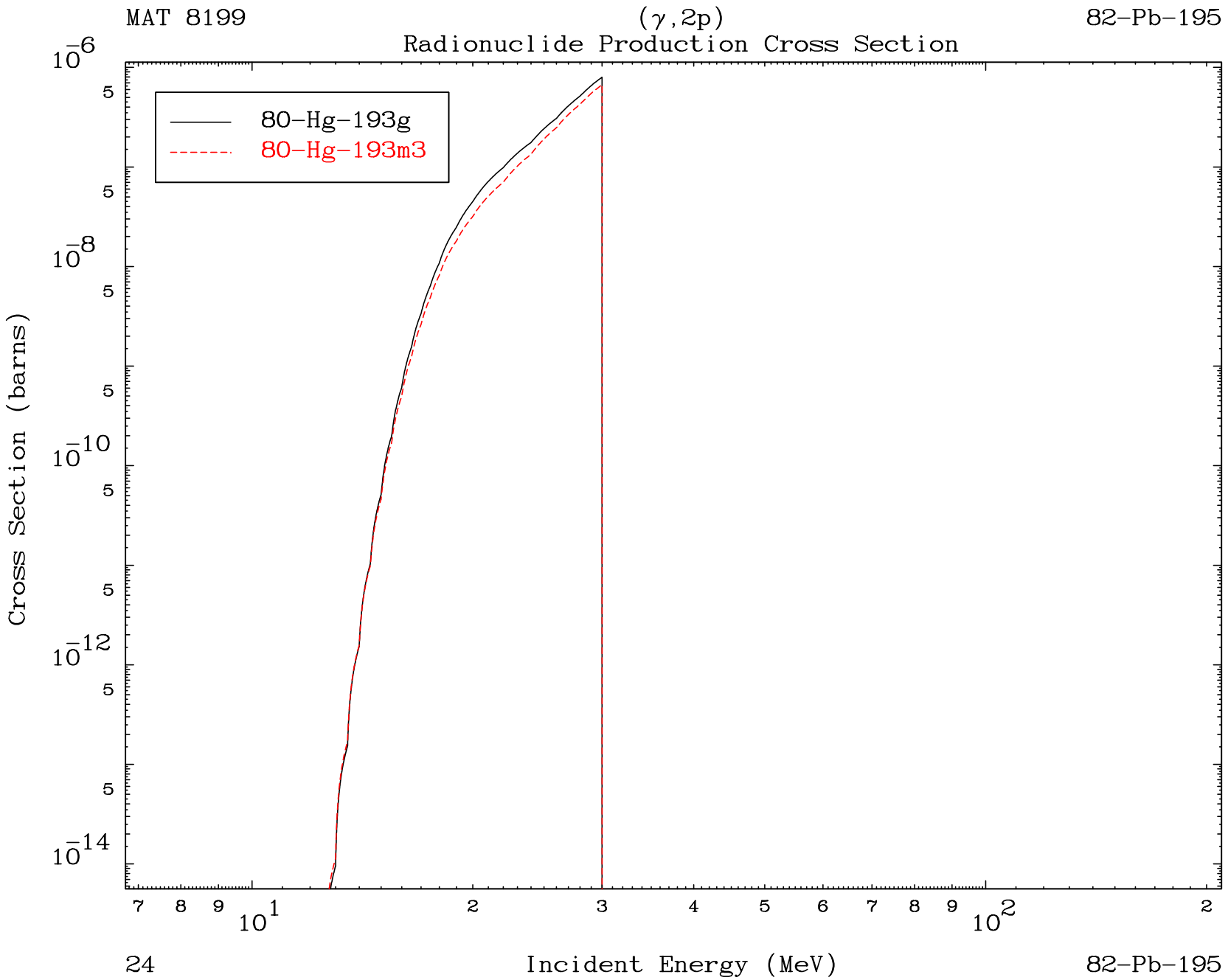

MAT 8199
(γ,γ)
82-Pb-195
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
19
82-Pb-195


MAT 8199
(γ,p)
82-Pb-195
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m5
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
20
82-Pb-195


MAT 8199
(γ,d)
82-Pb-195
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
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
21
Incident Energy (MeV)
82-Pb-195


MAT 8199
(γ,t)
82-Pb-195
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
22
Incident Energy (MeV)
82-Pb-195


MAT 8199
(γ,α)
82-Pb-195
Radionuclide Production Cross Section
80-Hg-191g
80-Hg-191m3
Cross Section (barns)
Incident Energy (MeV)
23
82-Pb-195


MAT 8199
(γ,2p)
82-Pb-195
Radionuclide Production Cross Section
80-Hg-193g
80-Hg-193m3
Cross Section (barns)
Incident Energy (MeV)
24
82-Pb-195