Program EVALPLOT
(Version 2018-1)
by
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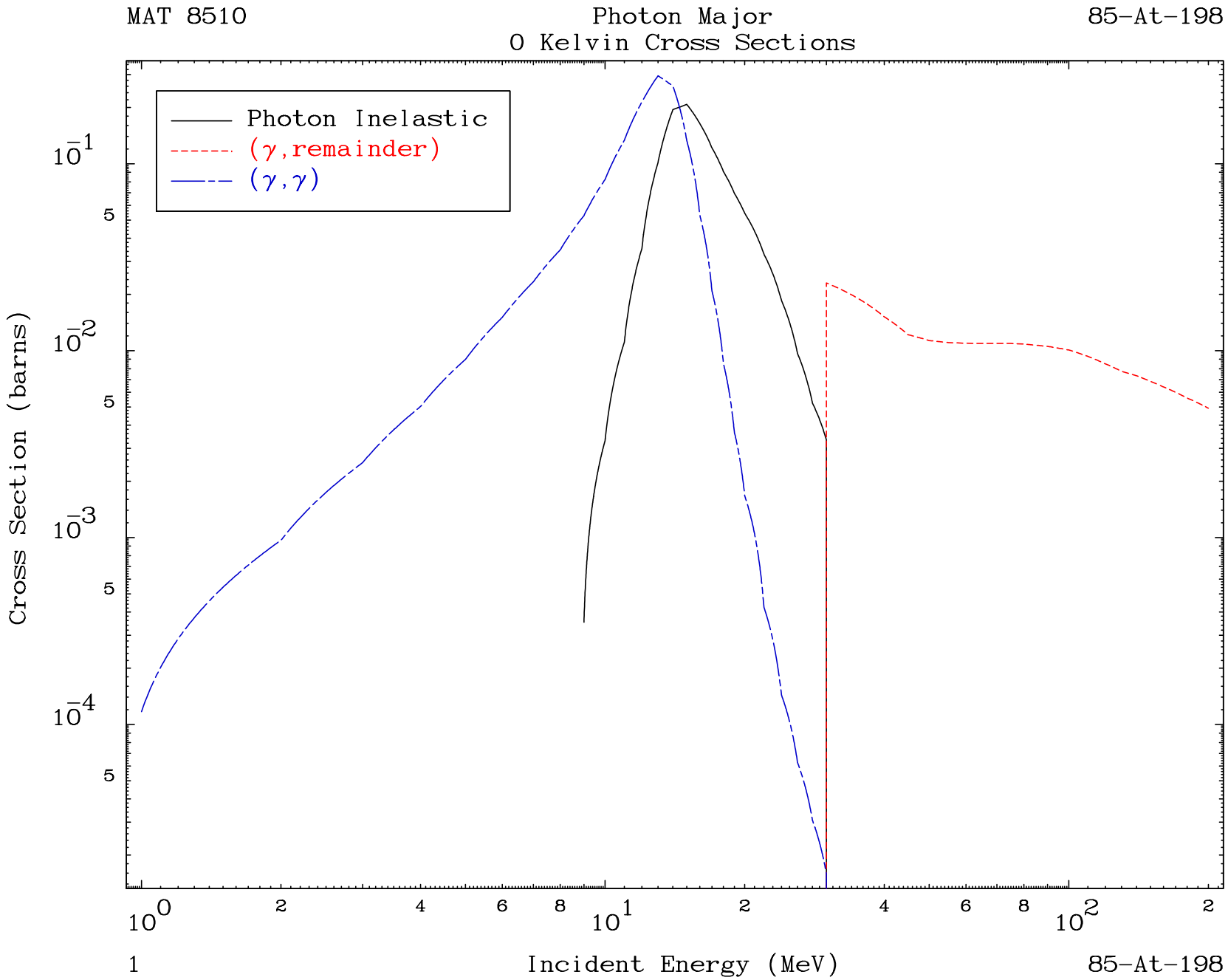
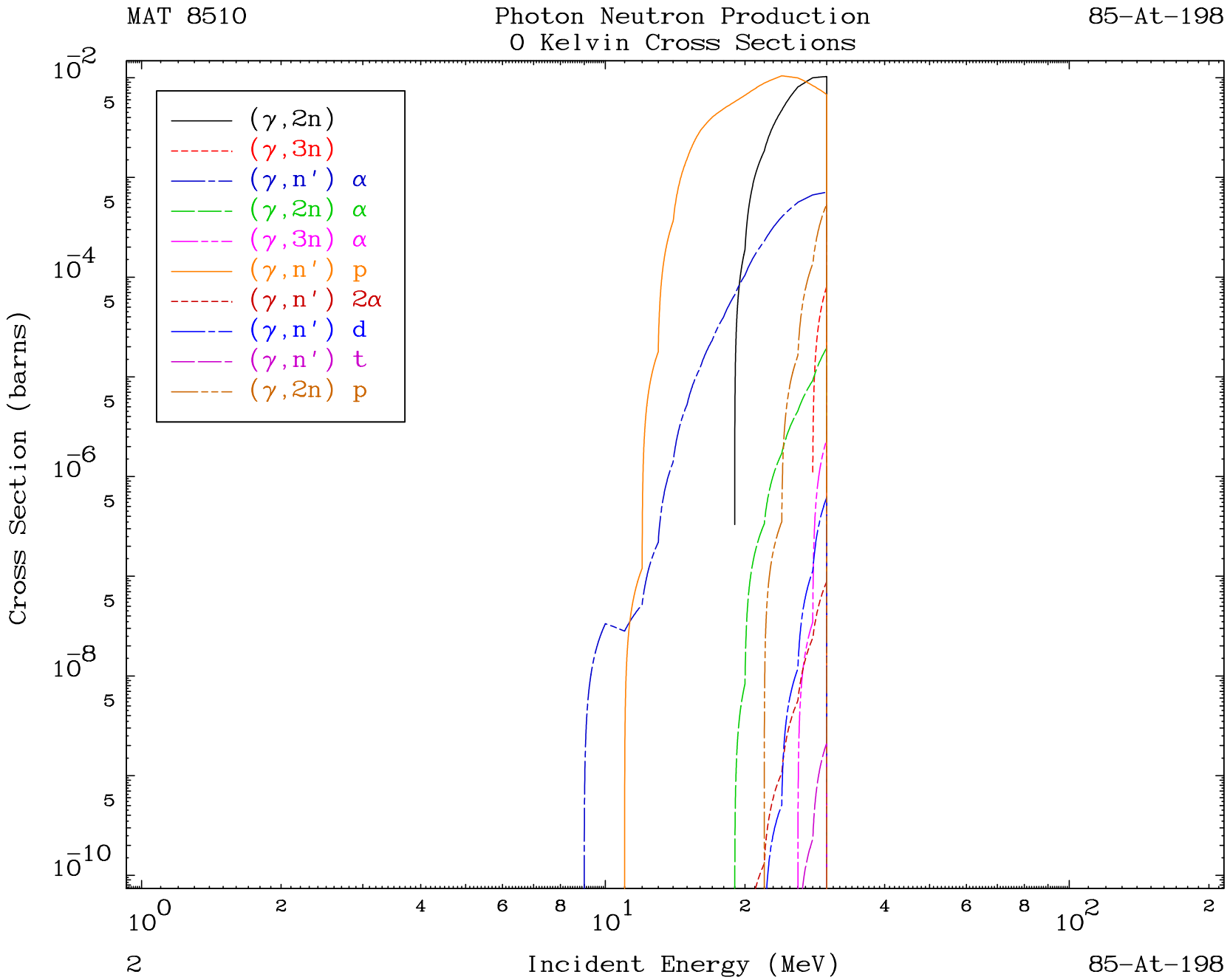
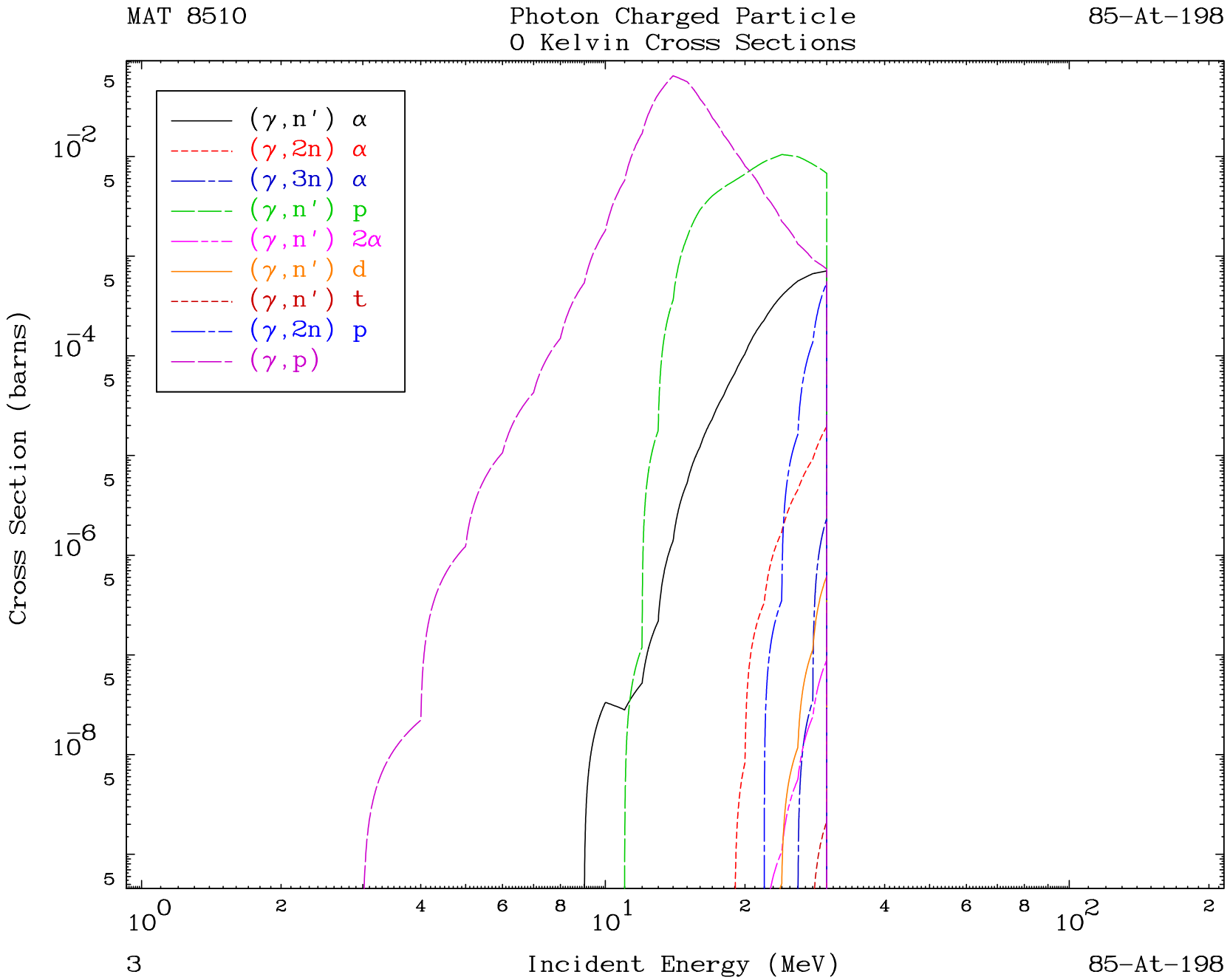
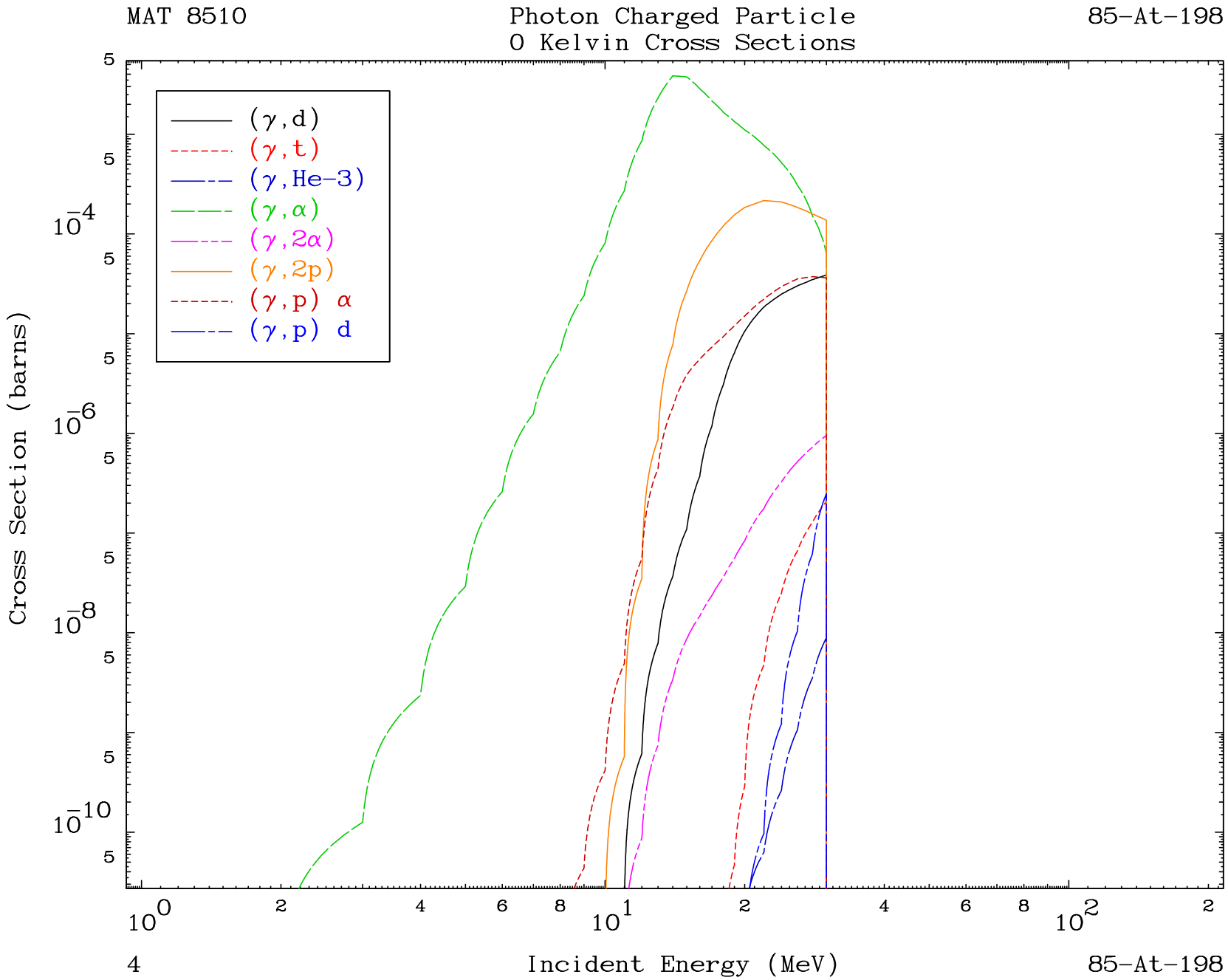
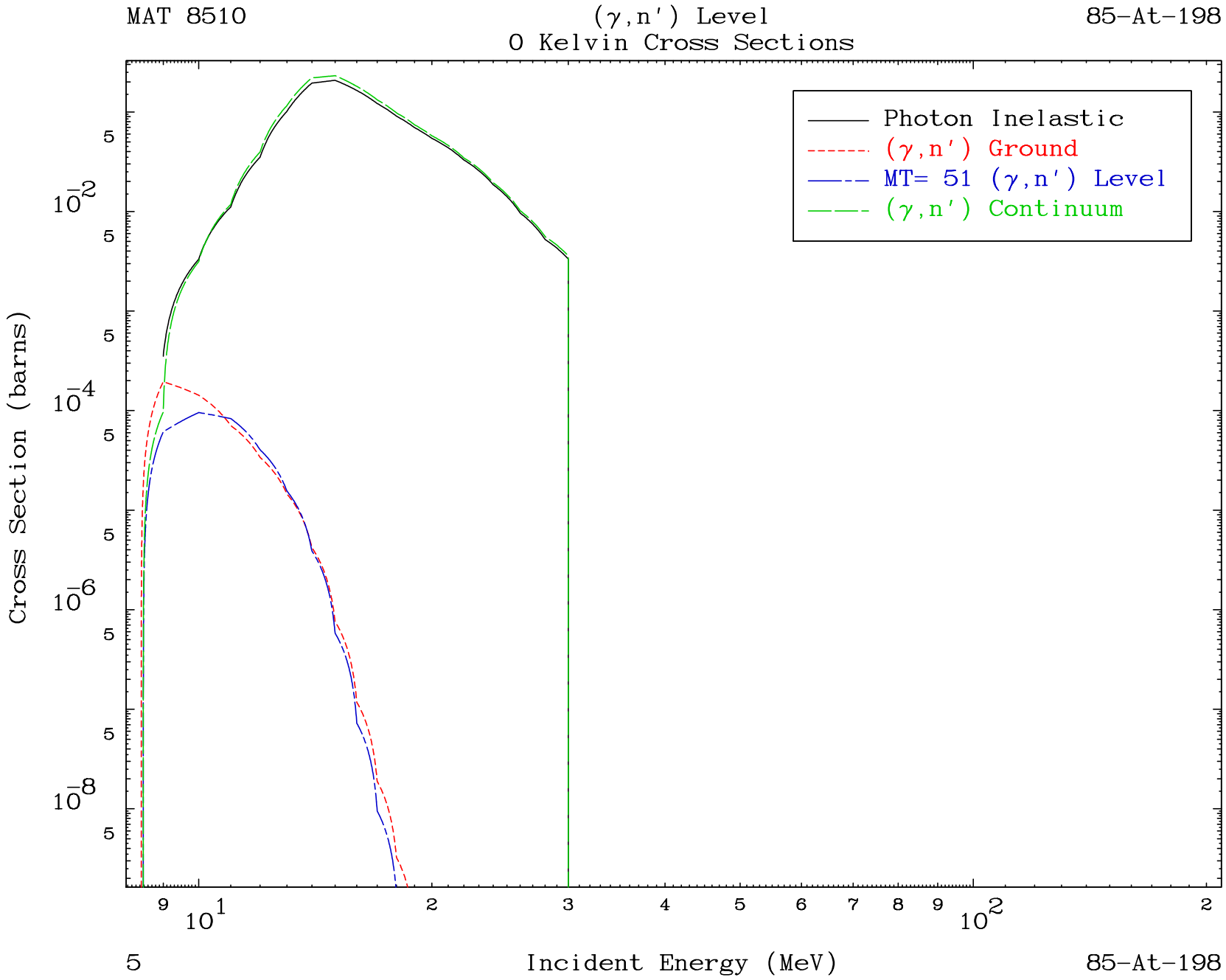
Press Mouse Button to Start

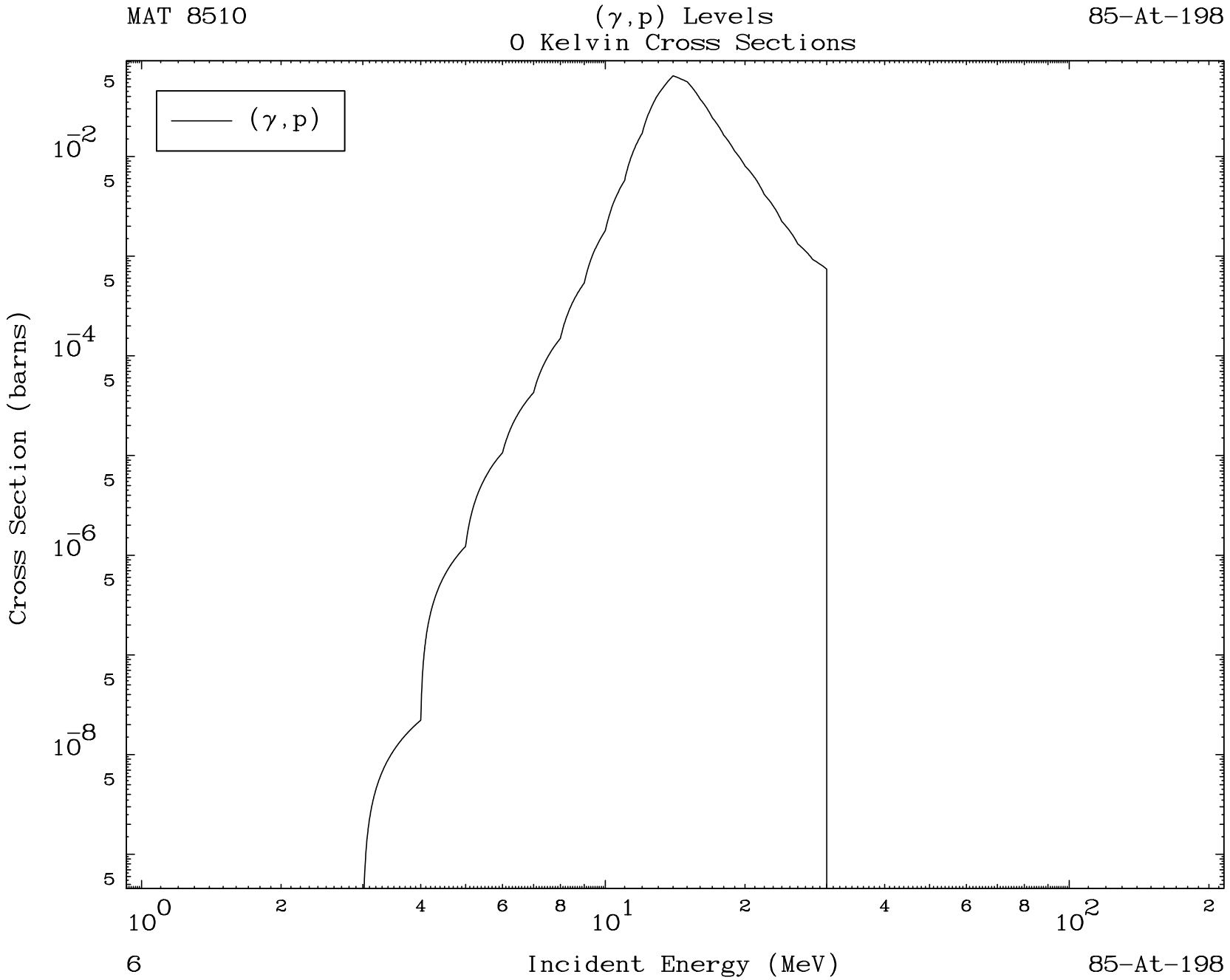

MAT 8510
Photon Major
85-At-198
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
10-1
10-2
10-3
10-4
5
100
2
4
6
8
101
102
1
Incident Energy (MeV)
85-At-198

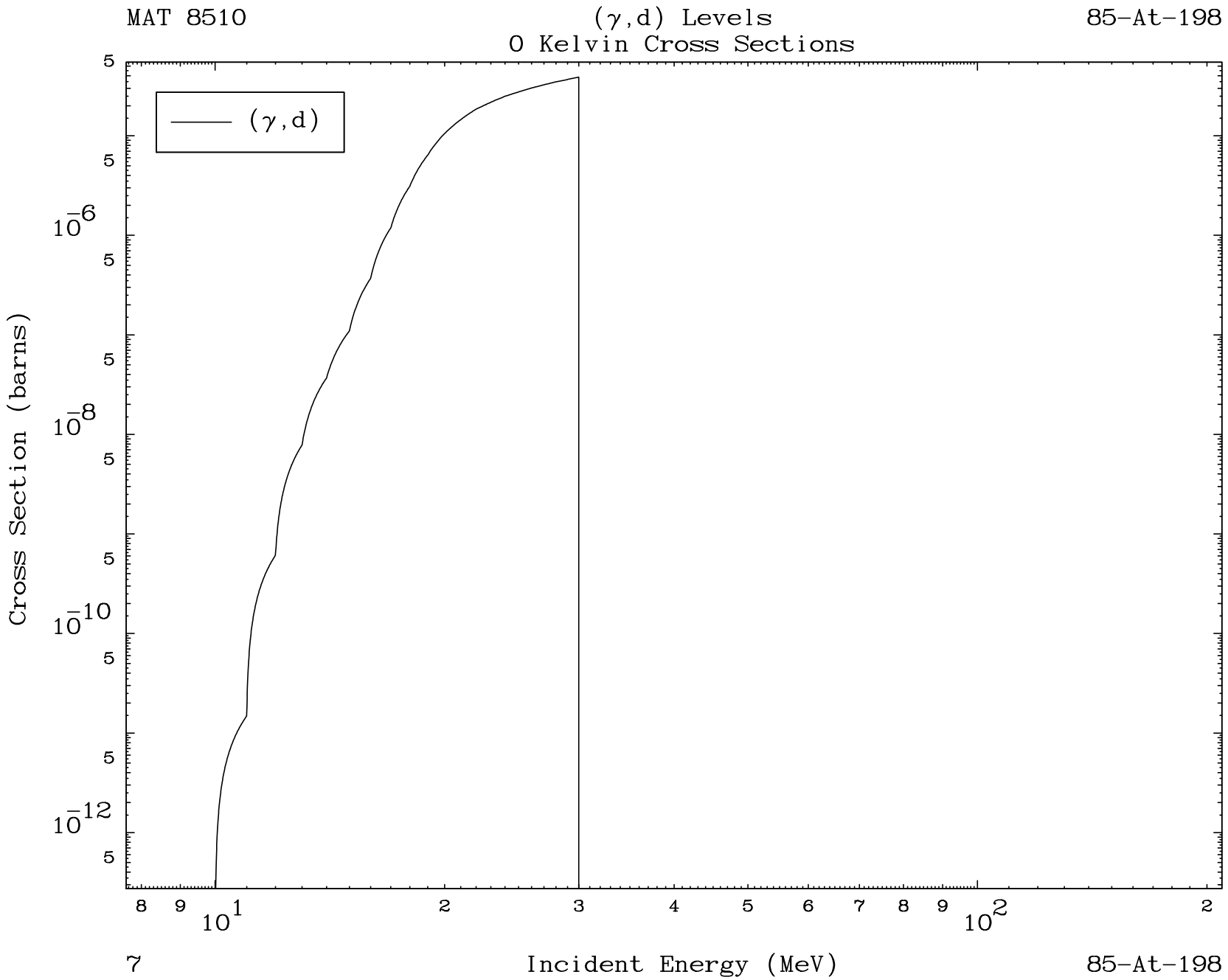

MAT 8510
Photon Neutron Production
0 Kelvin Cross Sections
85-At-198
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,3n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,n') t
(γ,2n) p
Cross Section (barns)
Incident Energy (MeV)
85-At-198

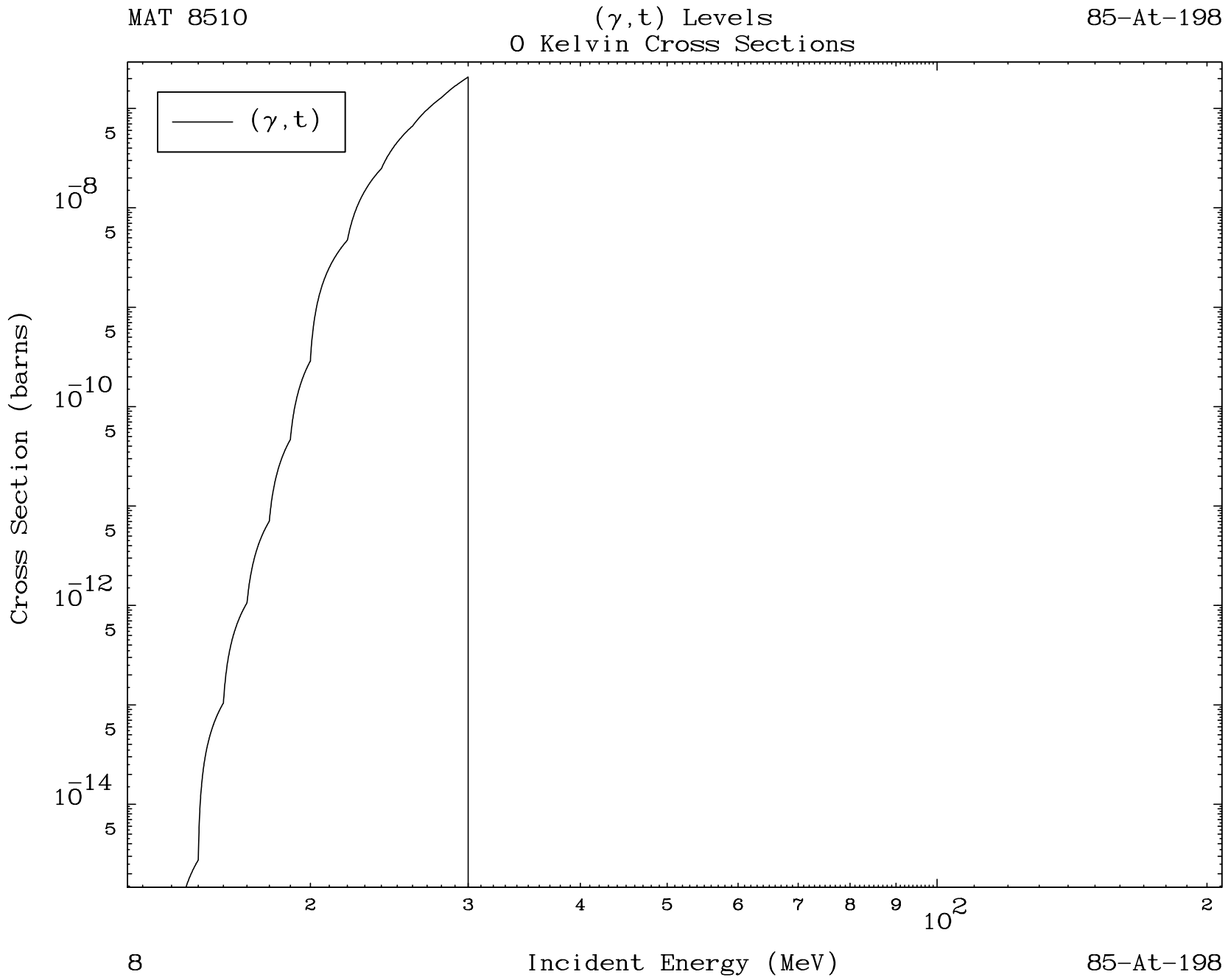

MAT 8510
Photon Charged Particle
0 Kelvin Cross Sections
85-At-198
(γ,n') α
(γ,2n) α
(γ,3n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
Cross Section (barns)
Incident Energy (MeV)
3
85-At-198

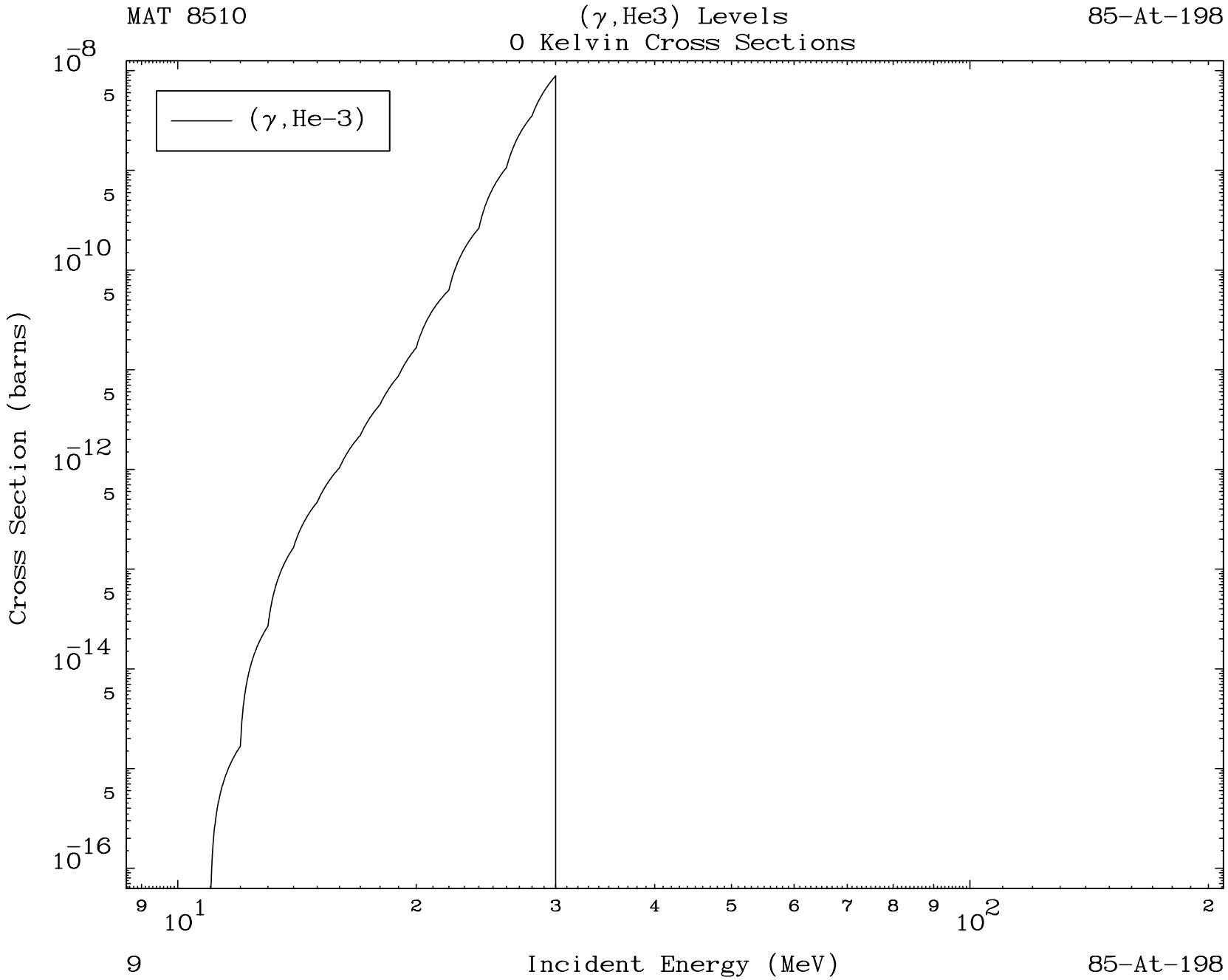

MAT 8510
Photon Charged Particle
0 Kelvin Cross Sections
85-At-198
(γ,d)
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
Cross Section (barns)
Incident Energy (MeV)
85-At-198
4

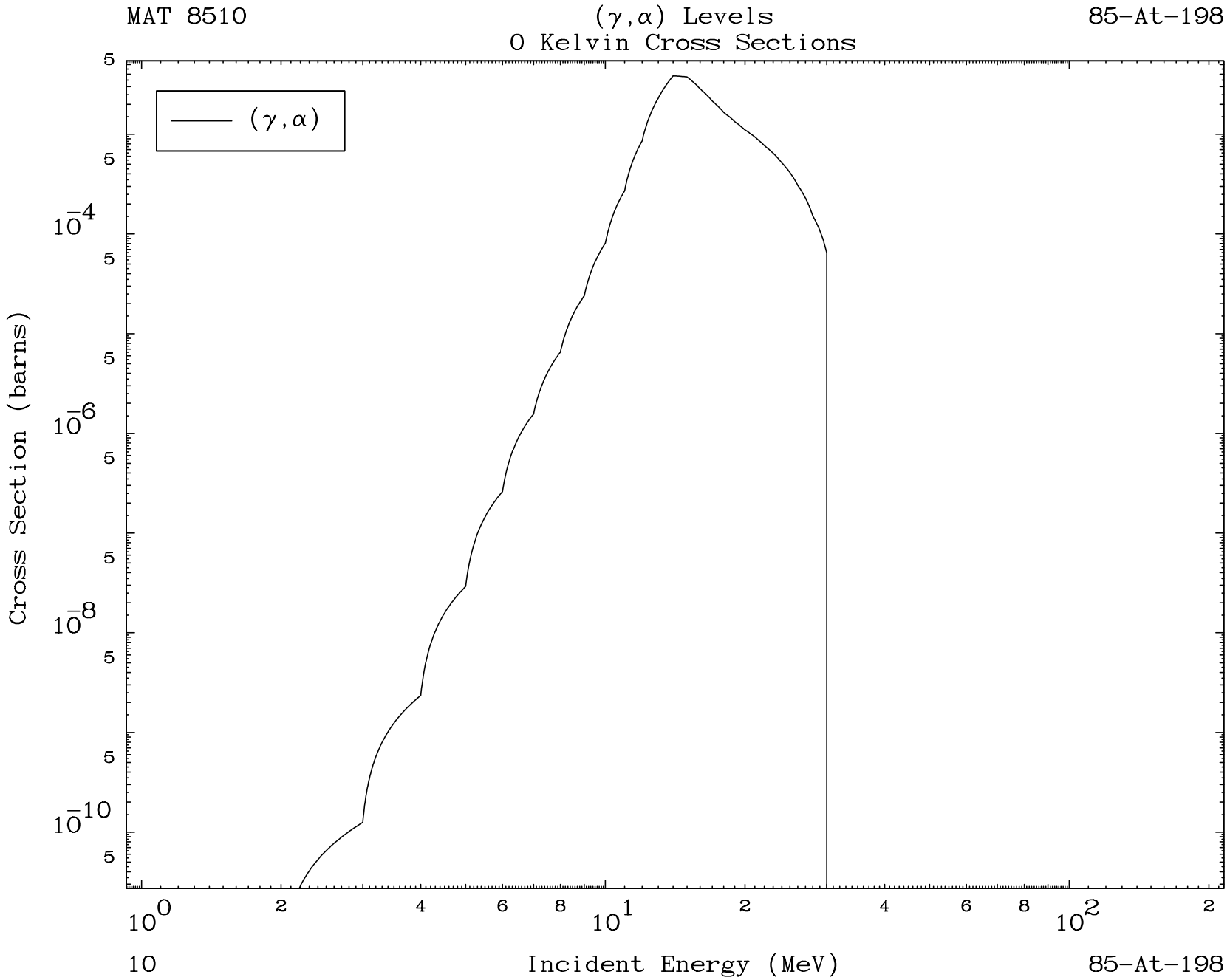

MAT 8510
(γ,n') Level
85-At-198
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
85-At-198

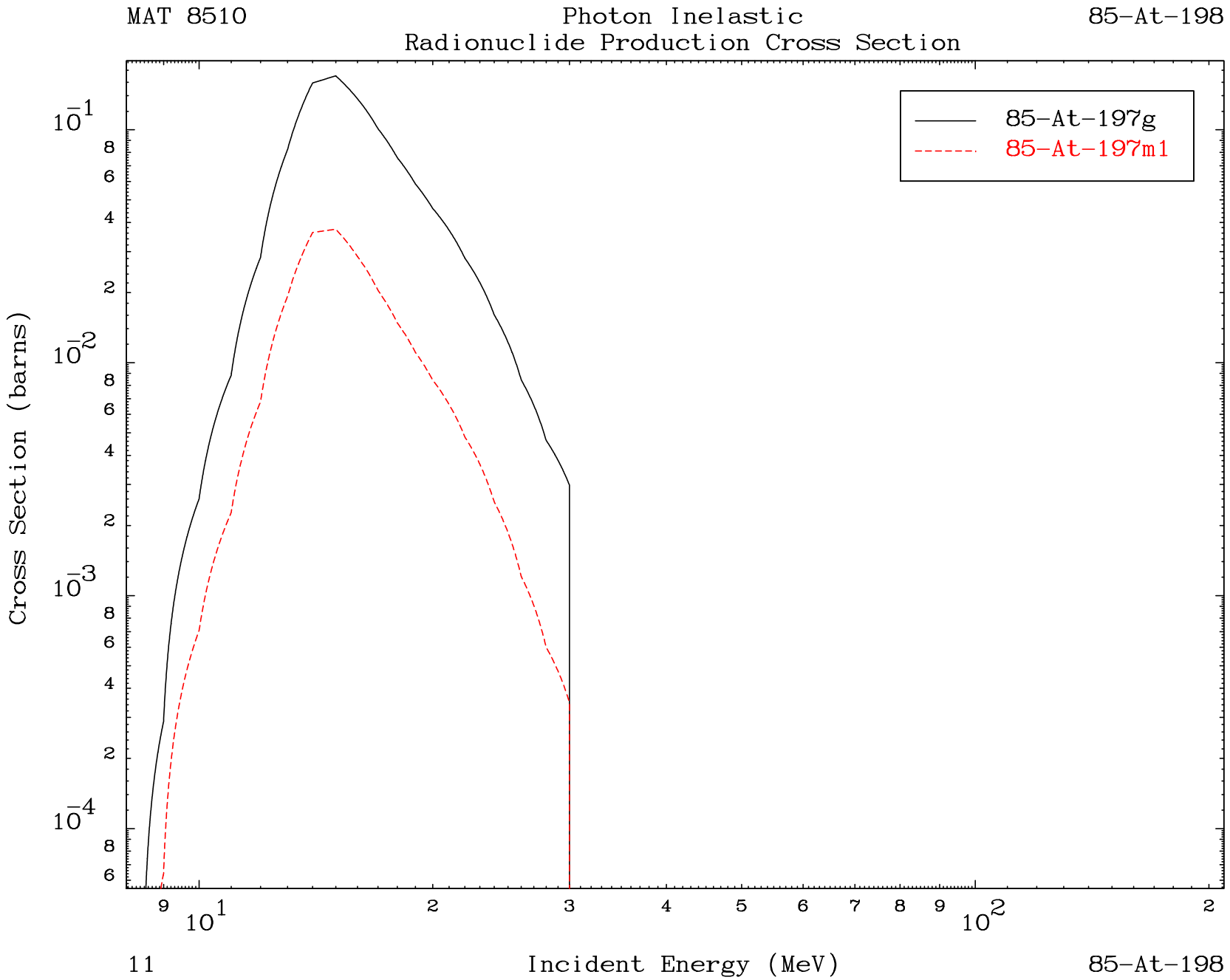

MAT 8510
(γ,p) Levels
85-At-198
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
6
85-At-198

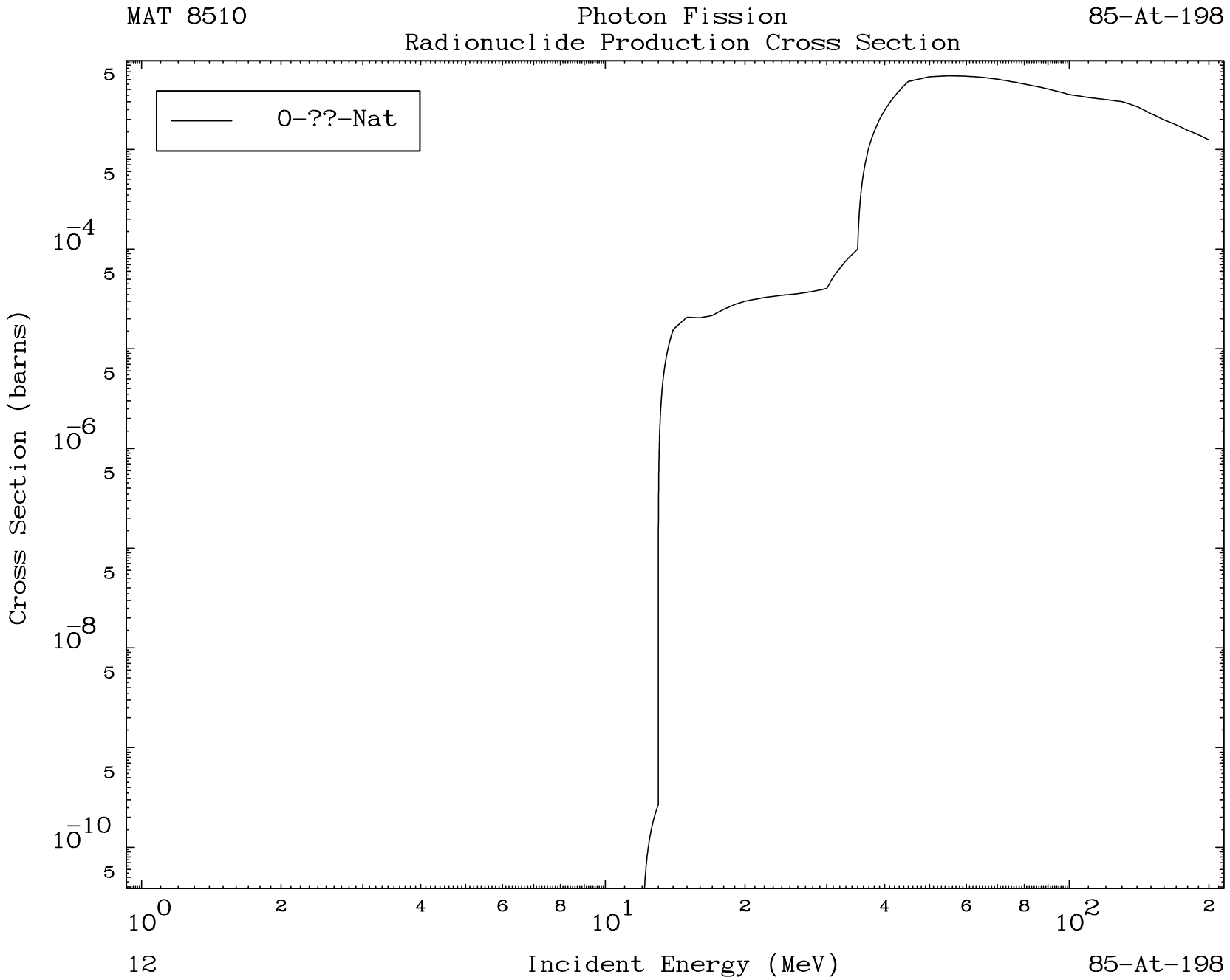

MAT 8510
(γ,d) Levels
85-At-198
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
Incident Energy (MeV)
85-At-198
7

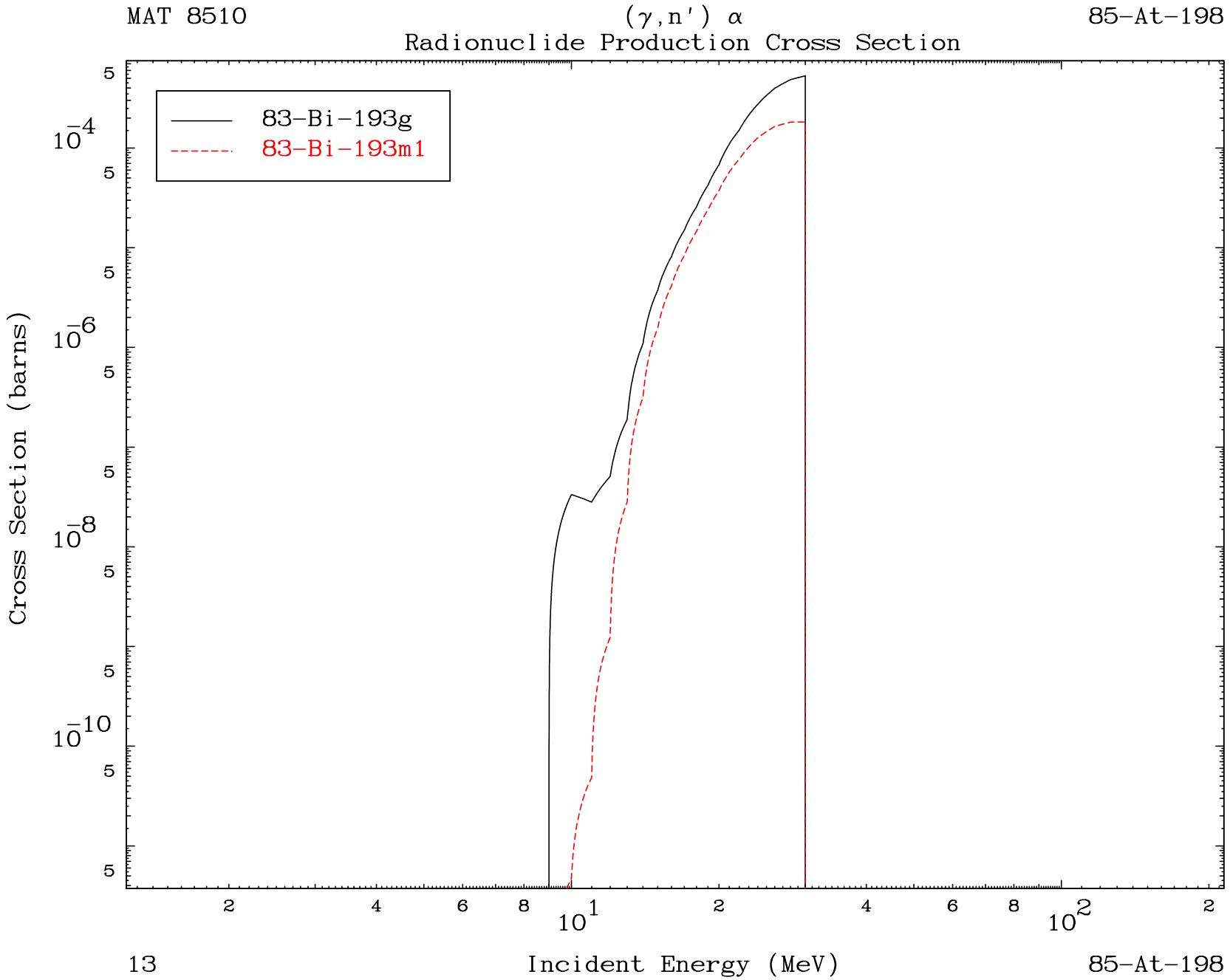

MAT 8510
(γ,t) Levels
85-At-198
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
8
85-At-198

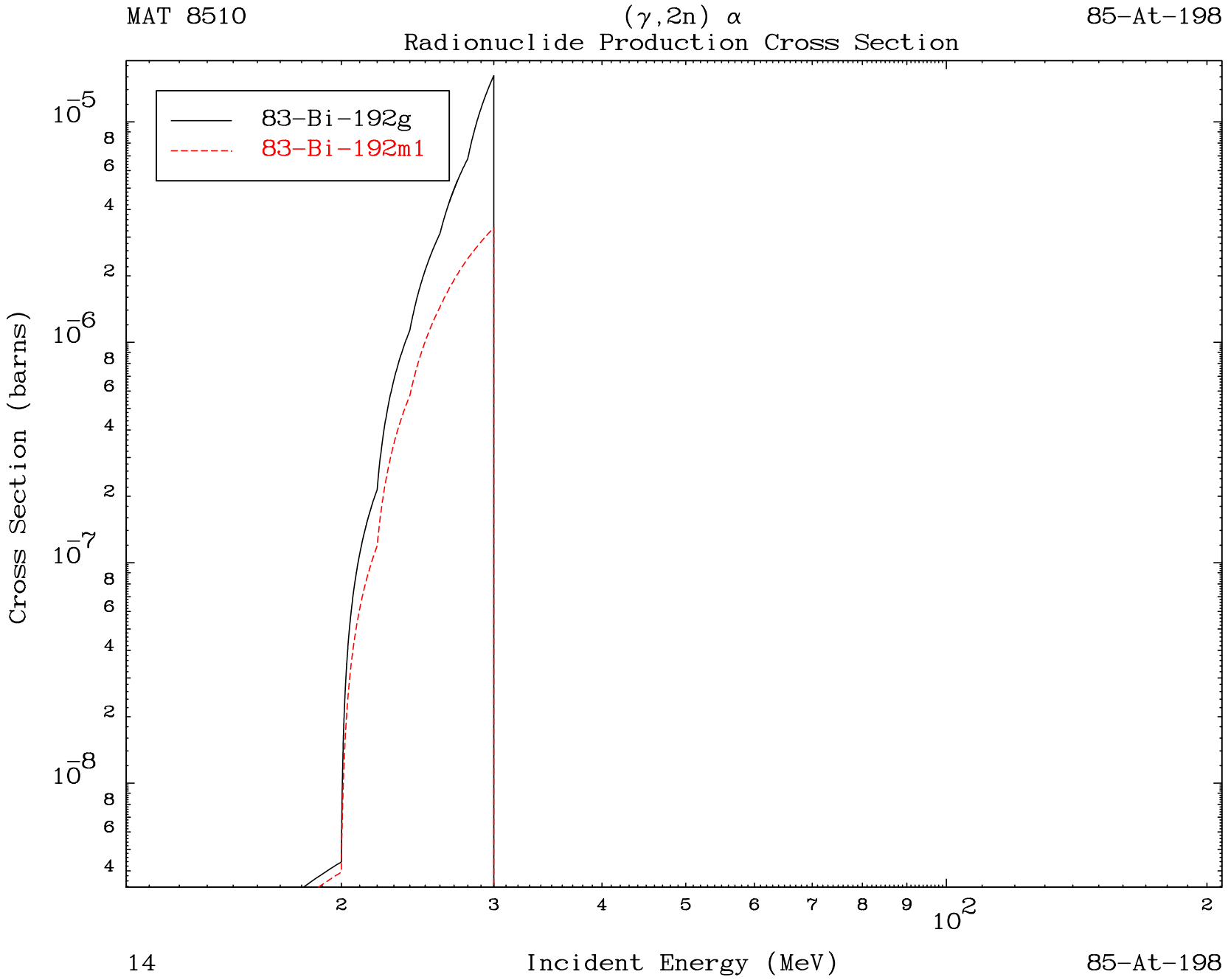

MAT 8510
(γ,He3) Levels
85-At-198
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
Incident Energy (MeV)
85-At-198
9

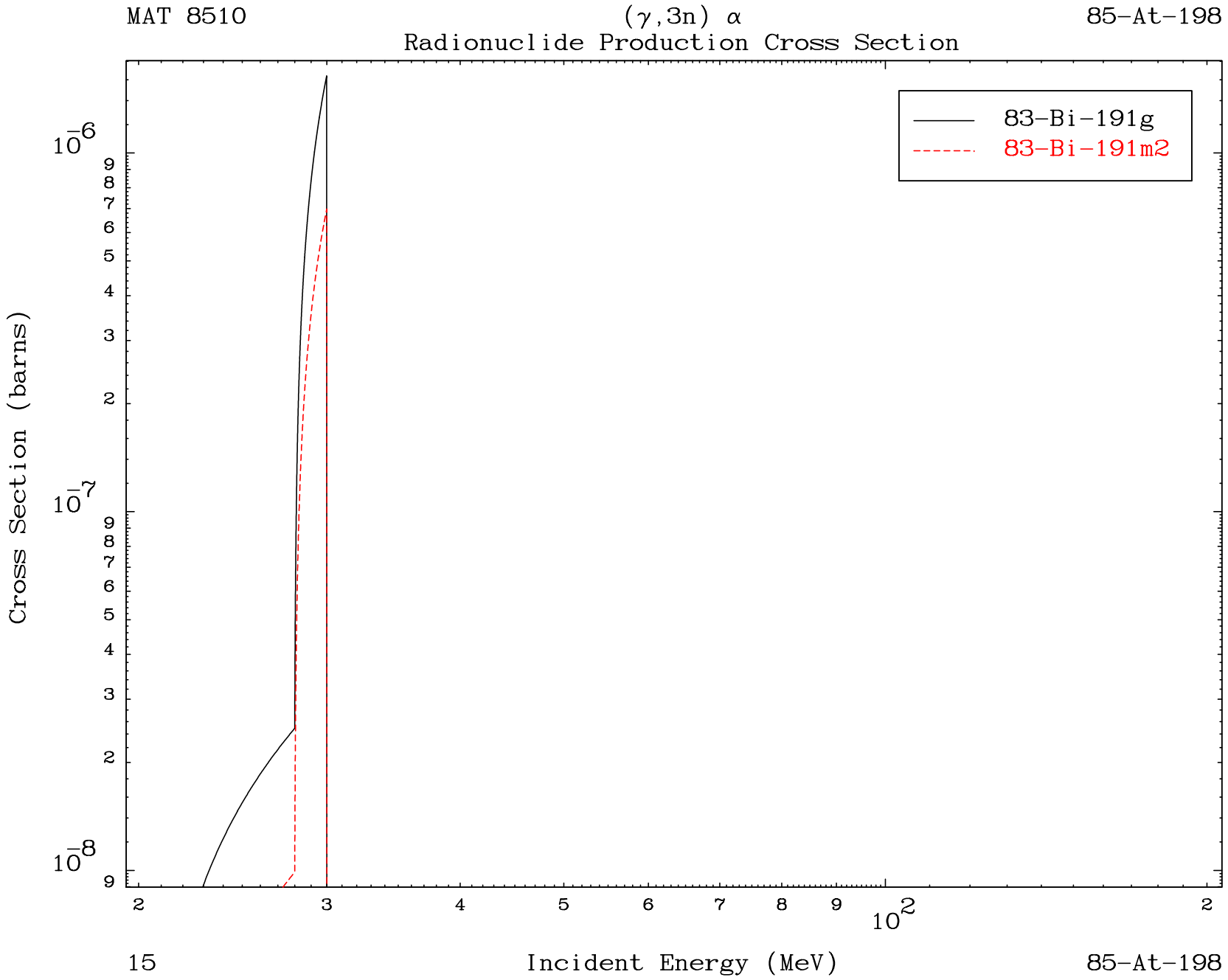

MAT 8510
(γ,α) Levels
85-At-198
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
Incident Energy (MeV)
85-At-198

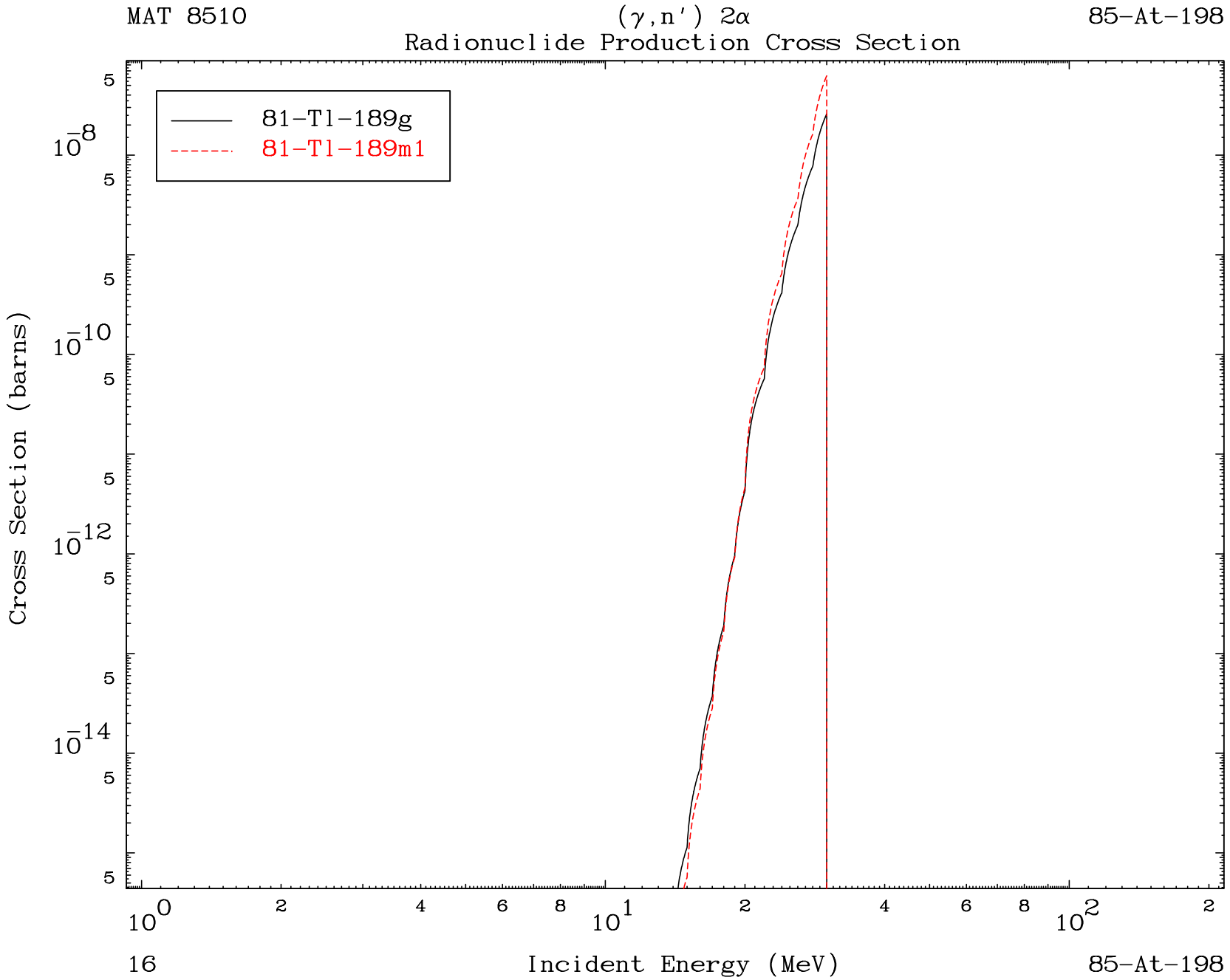

MAT 8510
Photon Inelastic
85-At-198
Radionuclide Production Cross Section
85-At-197g
85-At-197m1
Cross Section (barns)
Incident Energy (MeV)
11
85-At-198

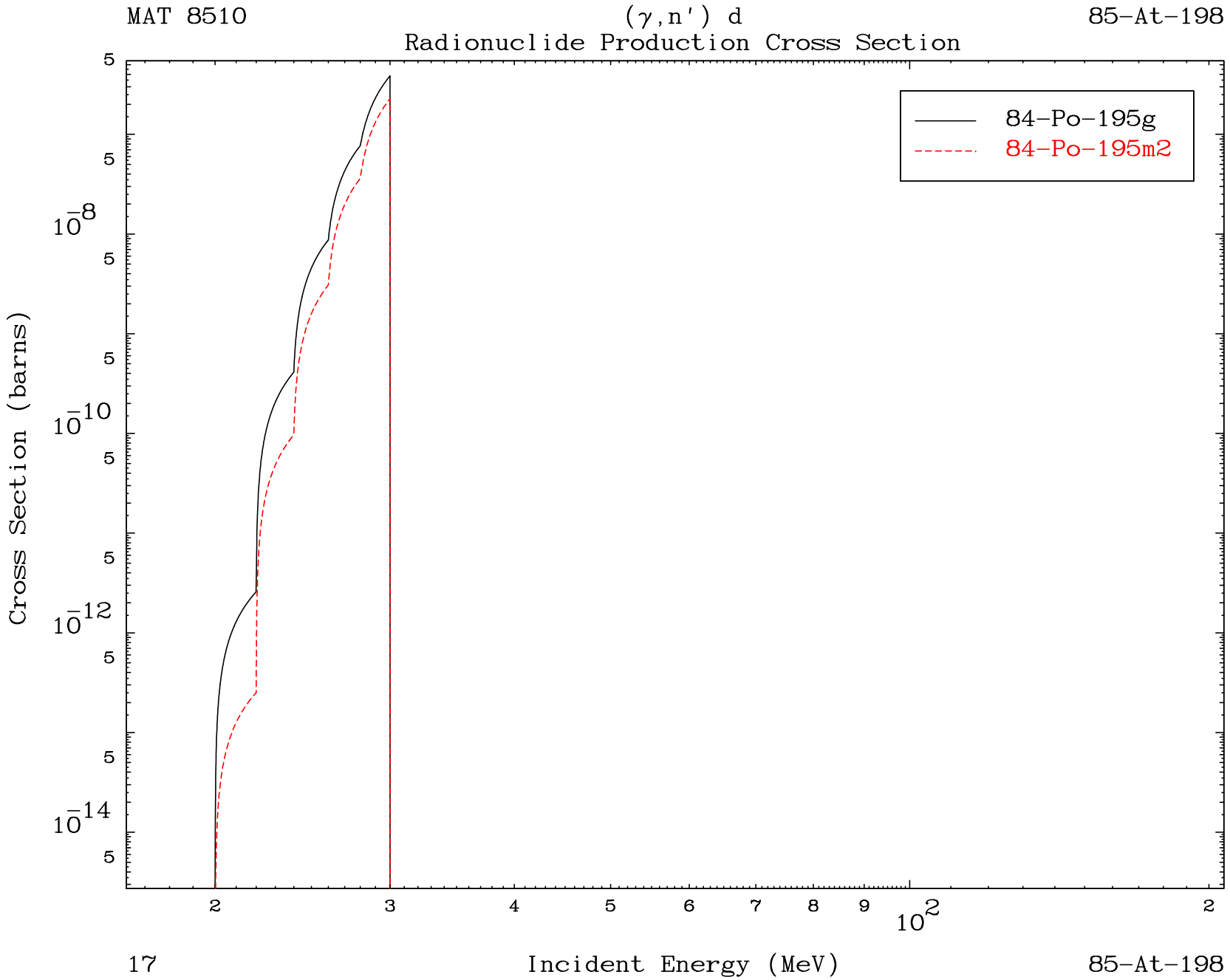

MAT 8510
Photon Fission
85-At-198
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
12
85-At-198

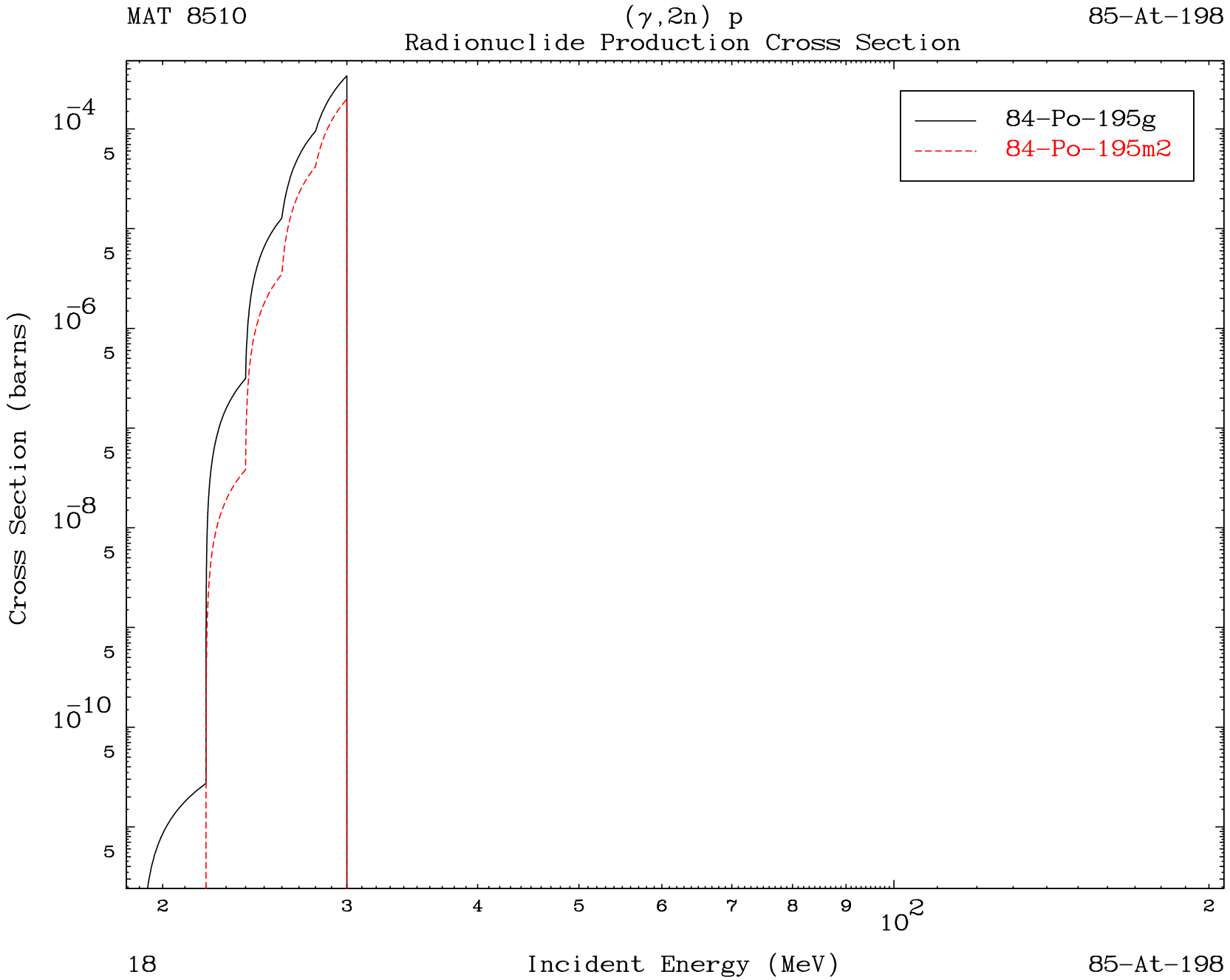

MAT 8510
(γ,n') α
85-At-198
Radionuclide Production Cross Section
83-Bi-193g
83-Bi-193m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
13
85-At-198

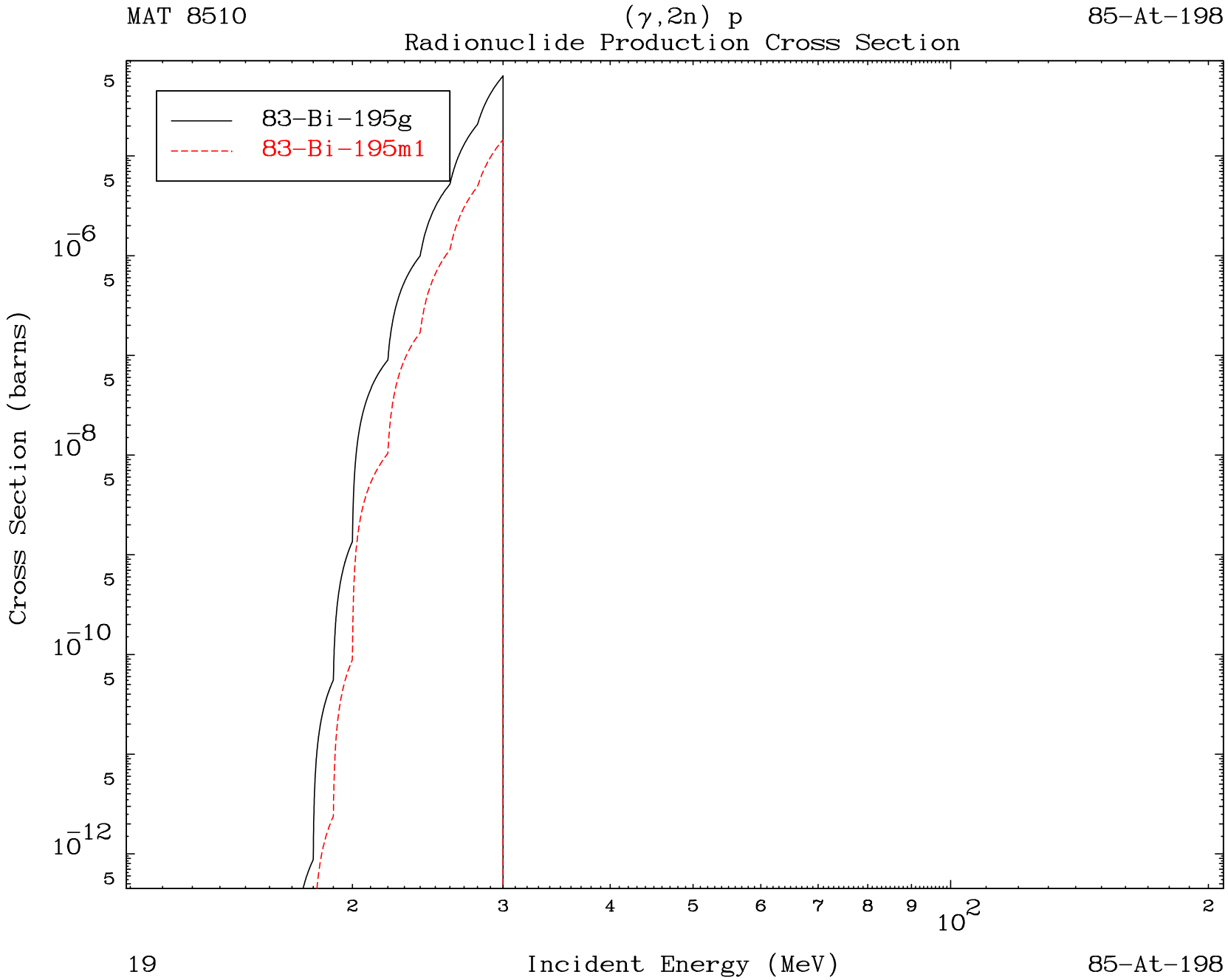

MAT 8510
(γ,2n) α
85-At-198
Radionuclide Production Cross Section
83-Bi-192g
83-Bi-192m1
Cross Section (barns)
10-5
10-6
10-7
10-8
8
6
4
2
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
85-At-198

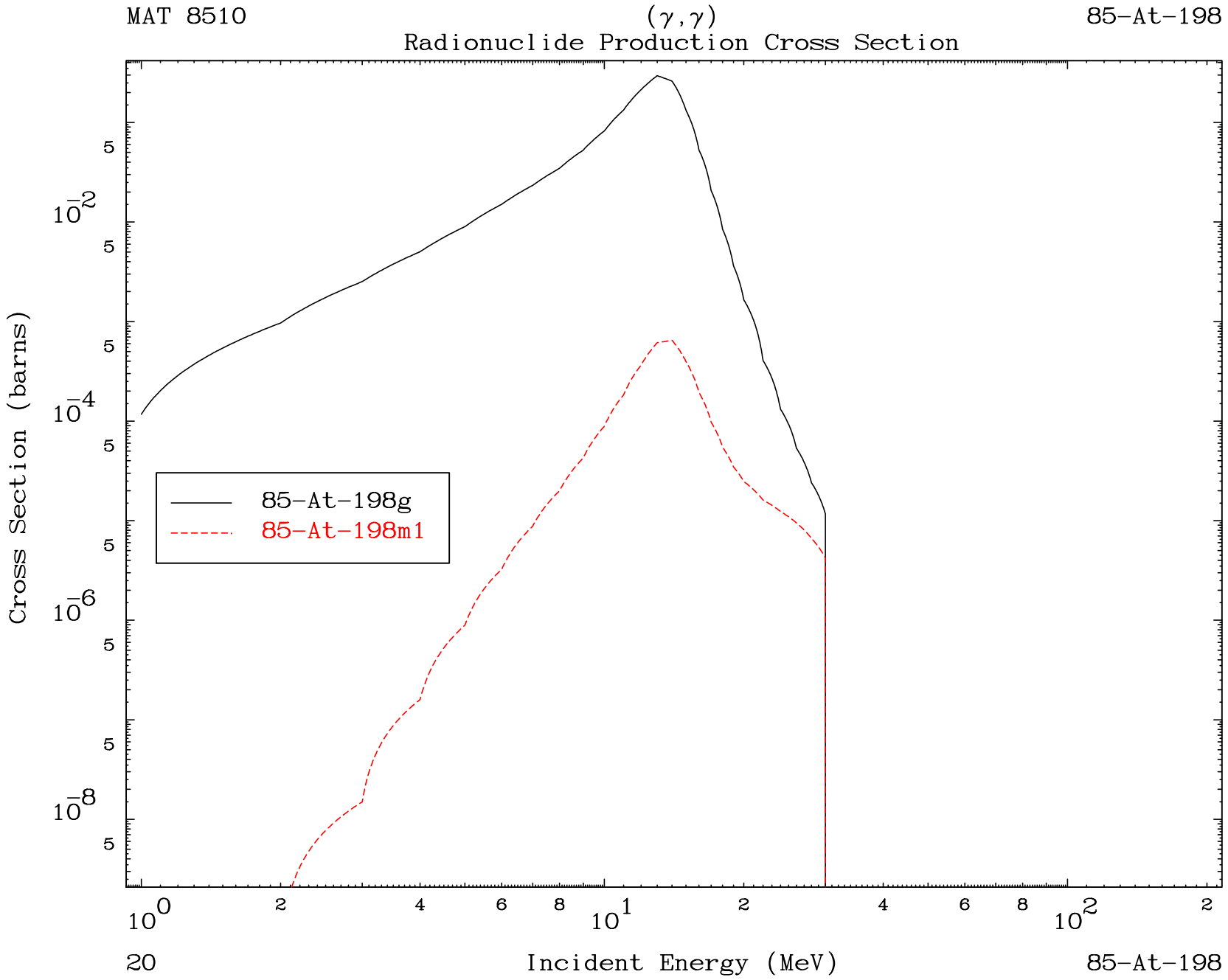

MAT 8510
(γ,3n) α
85-At-198
Radionuclide Production Cross Section
83-Bi-191g
83-Bi-191m2
Cross Section (barns)
10-6
10-7
10-8
9
8
7
6
5
4
3
2
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
85-At-198

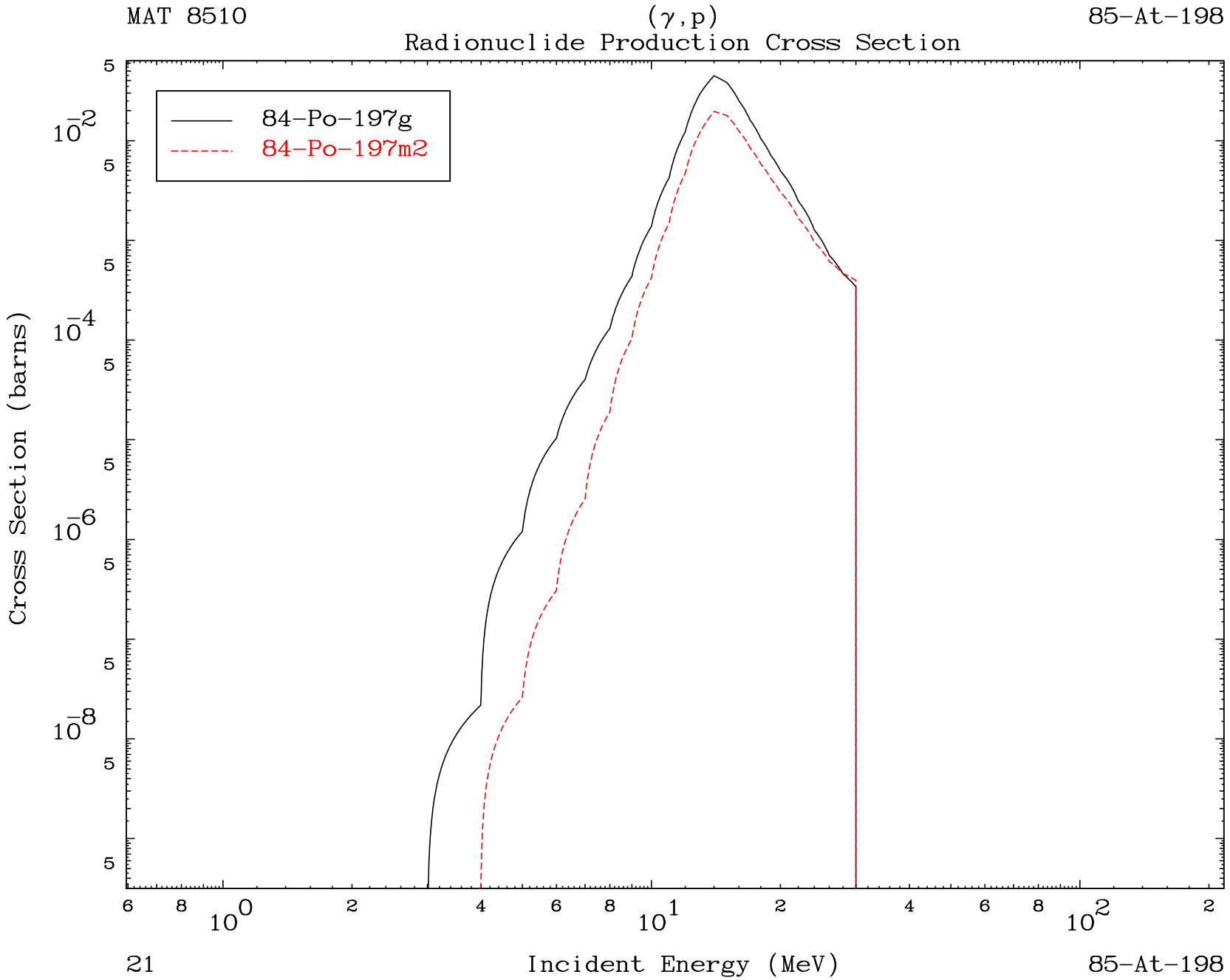

MAT 8510
(γ,n') 2α
85-At-198
Radionuclide Production Cross Section
81-Tl-189g
81-Tl-189m1
Cross Section (barns)
Incident Energy (MeV)
16
85-At-198

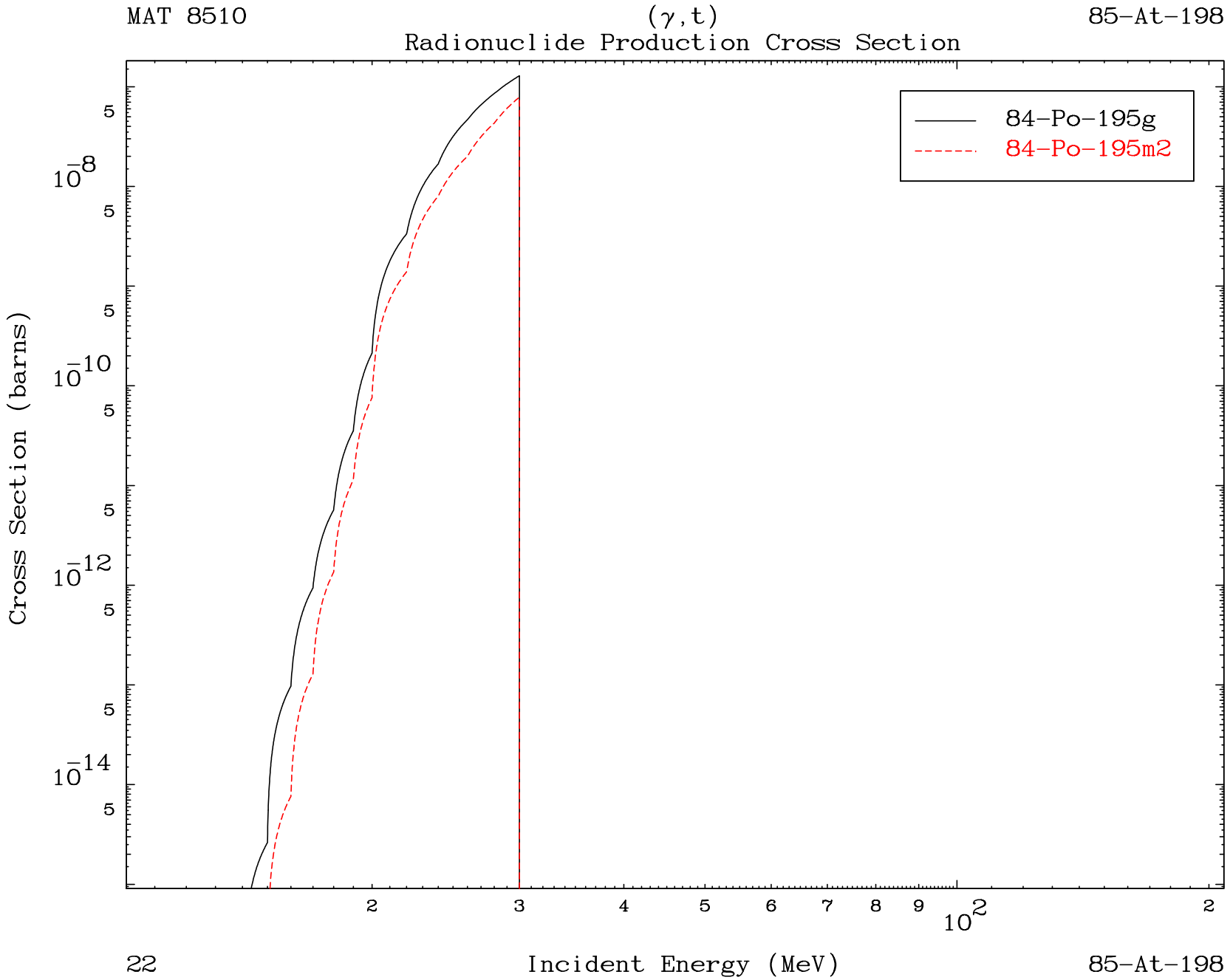

MAT 8510
(γ,n') d
85-At-198
Radionuclide Production Cross Section
84-Po-195g
84-Po-195m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
85-At-198

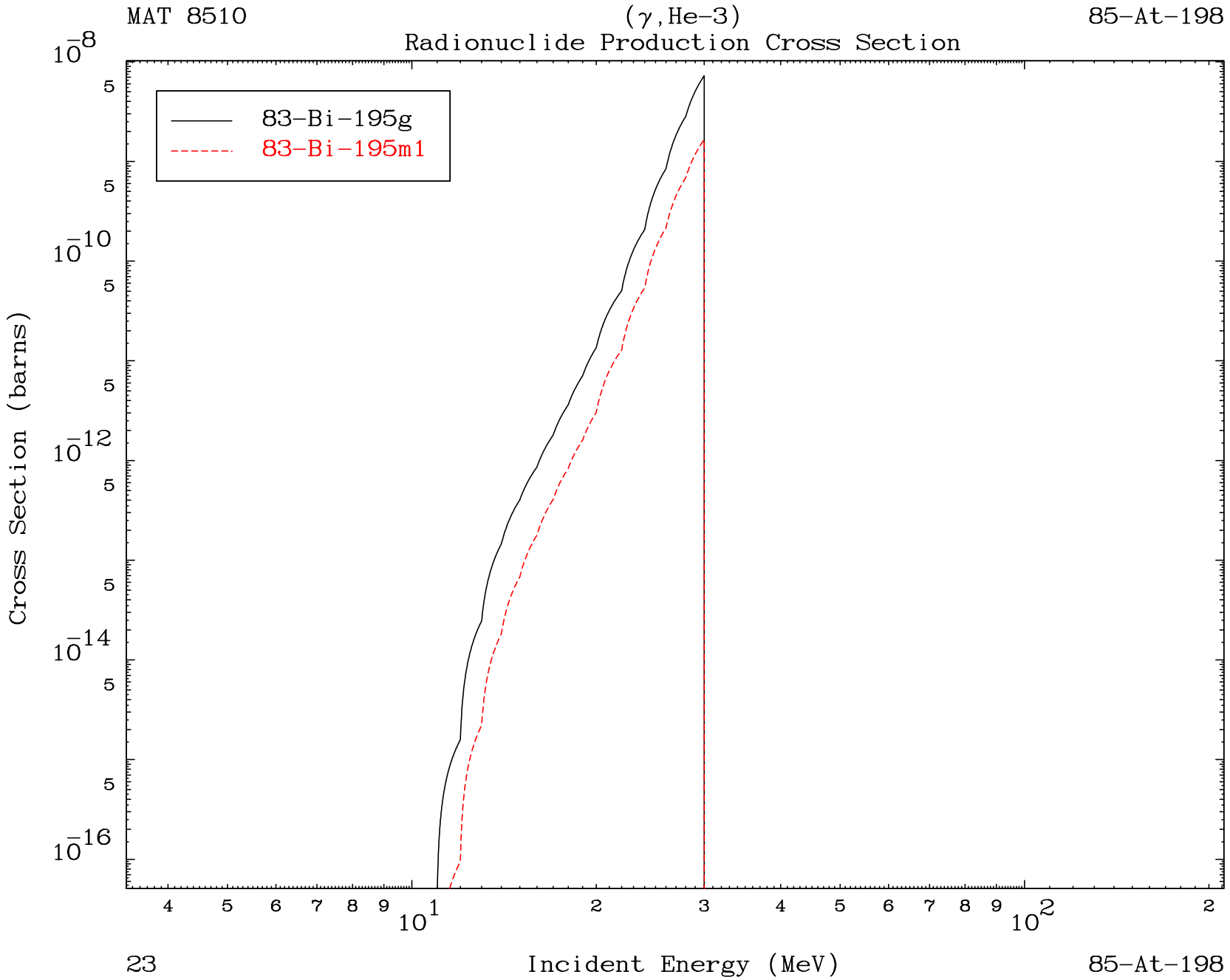

MAT 8510
(γ,2n) p
85-At-198
Radionuclide Production Cross Section
84-Po-195g
84-Po-195m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
85-At-198

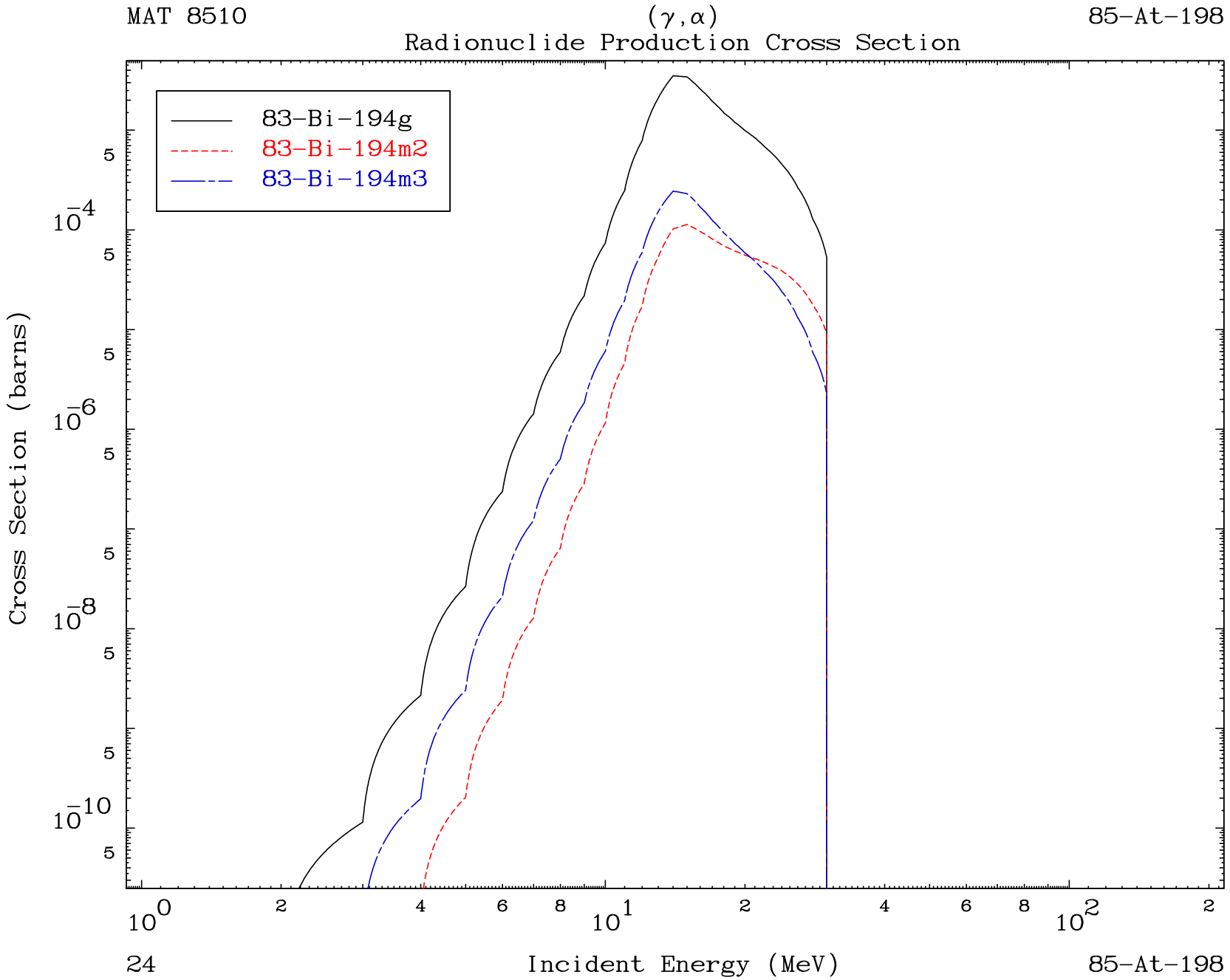

MAT 8510
(γ,2n) p
85-At-198
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
85-At-198

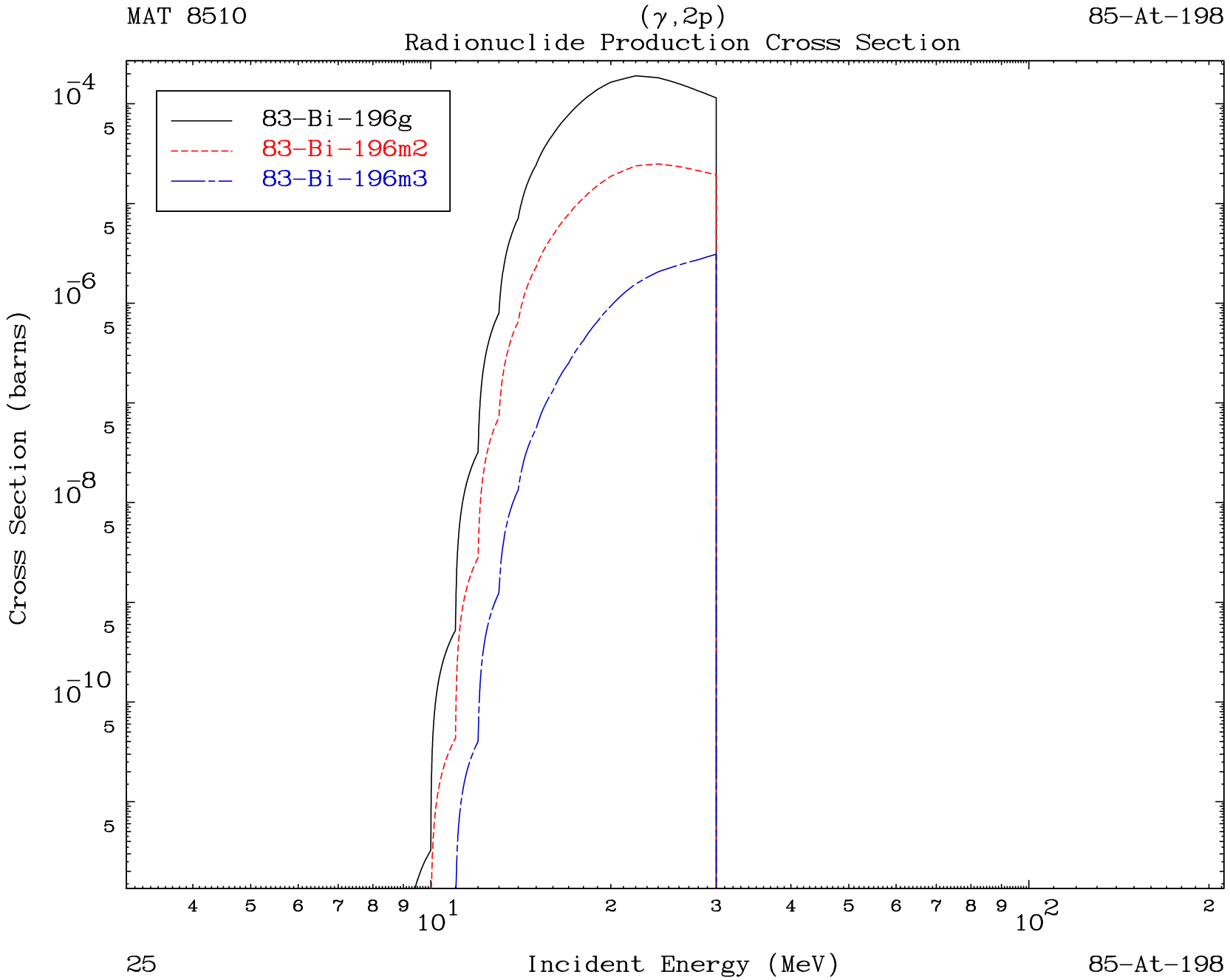

MAT 8510
(γ,γ)
85-At-198
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
2
4
6
8
101
102
85-At-198g
85-At-198m1
20
Incident Energy (MeV)
85-At-198

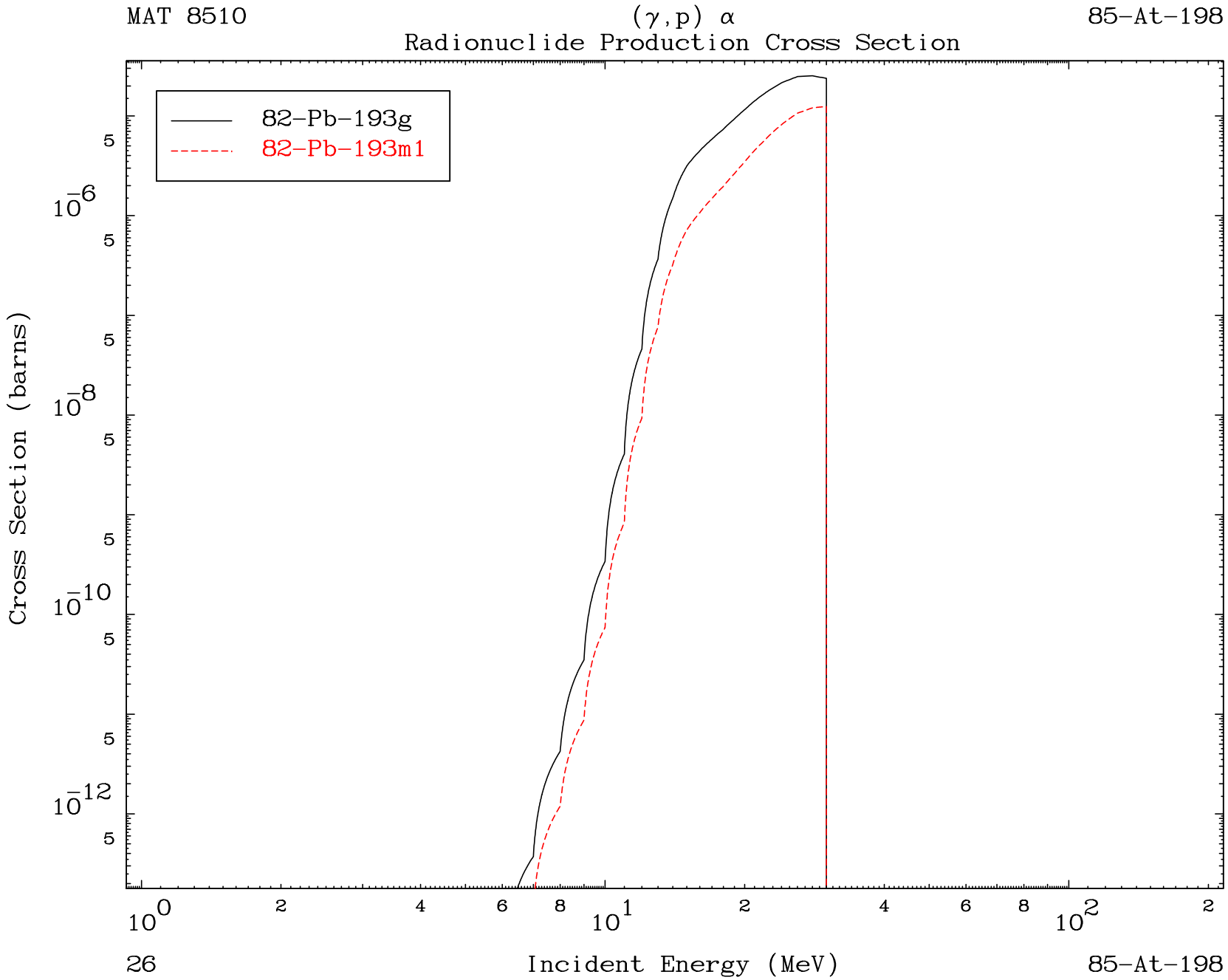

MAT 8510
(γ,p)
85-At-198
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
Incident Energy (MeV)
21
85-At-198

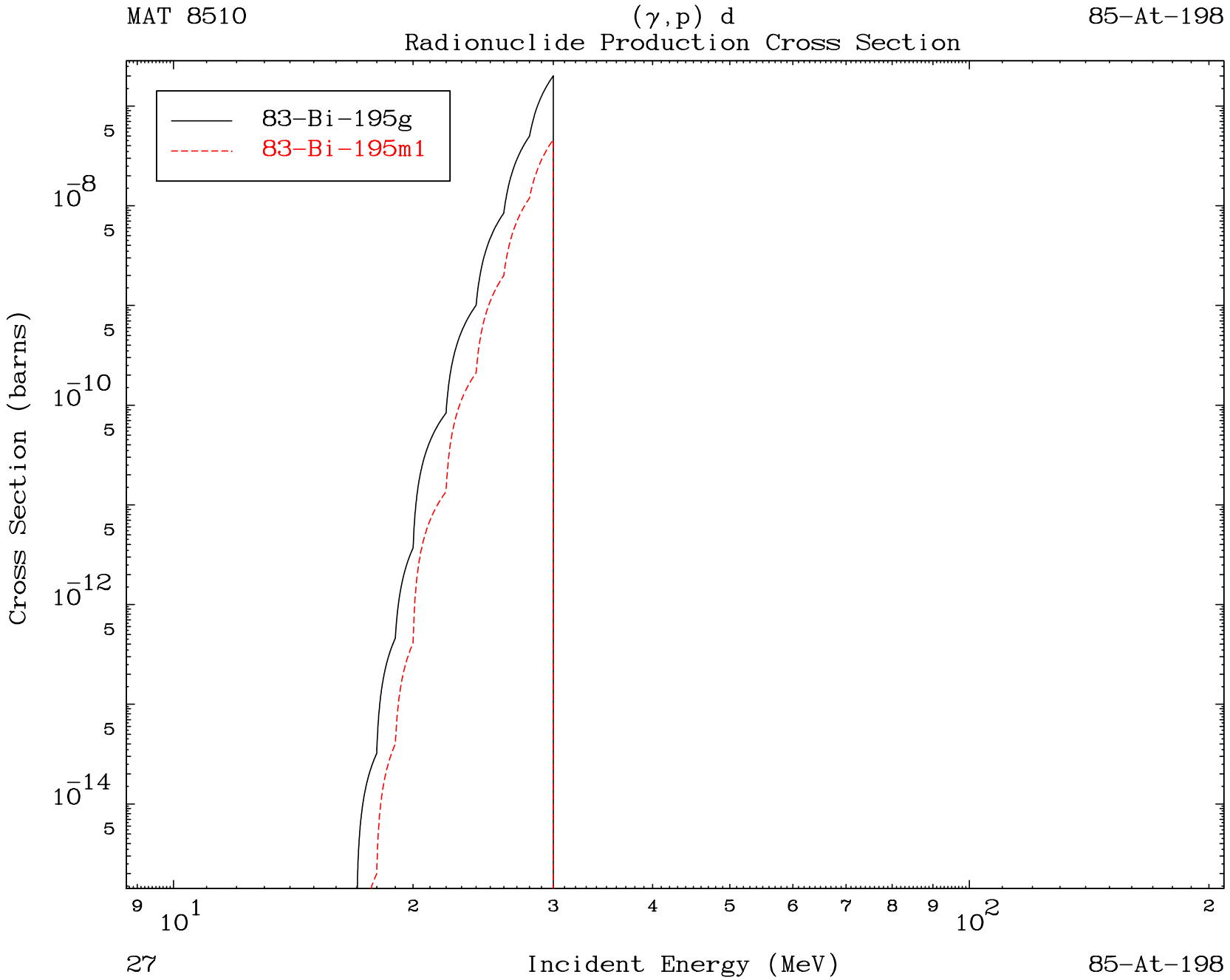

MAT 8510
(γ,t)
85-At-198
Radionuclide Production Cross Section
84-Po-195g
84-Po-195m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
22
Incident Energy (MeV)
85-At-198


MAT 8510
(γ,He-3)
85-At-198
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
Incident Energy (MeV)
23
85-At-198


MAT 8510
(γ,α)
85-At-198
Radionuclide Production Cross Section
83-Bi-194g
83-Bi-194m2
83-Bi-194m3
Cross Section (barns)
Incident Energy (MeV)
24
85-At-198


MAT 8510
(γ,2p)
85-At-198
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
25
85-At-198


MAT 8510
(γ,p) α
85-At-198
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
Incident Energy (MeV)
26
85-At-198


MAT 8510
(γ,p) d
85-At-198
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
27
Incident Energy (MeV)
85-At-198