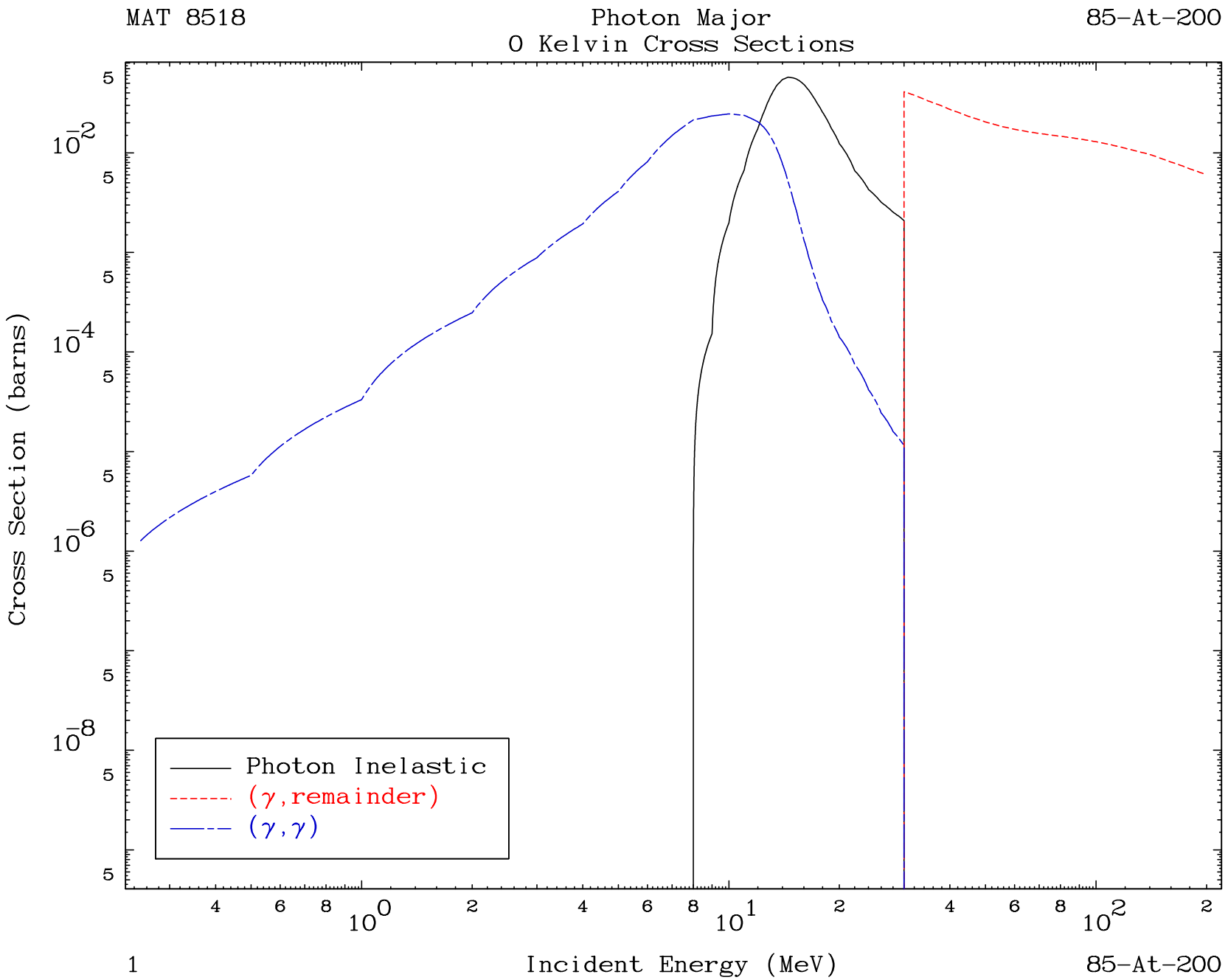
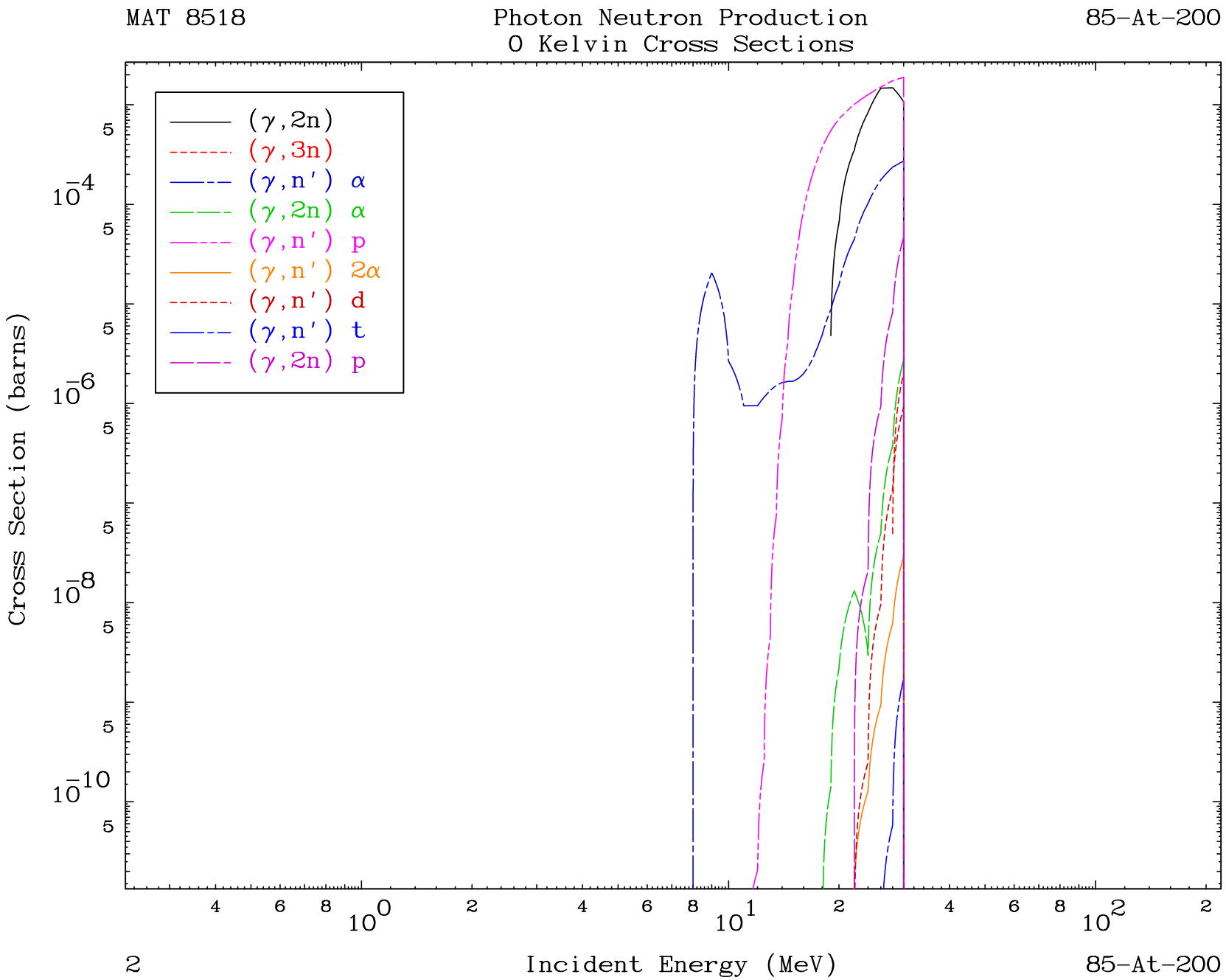
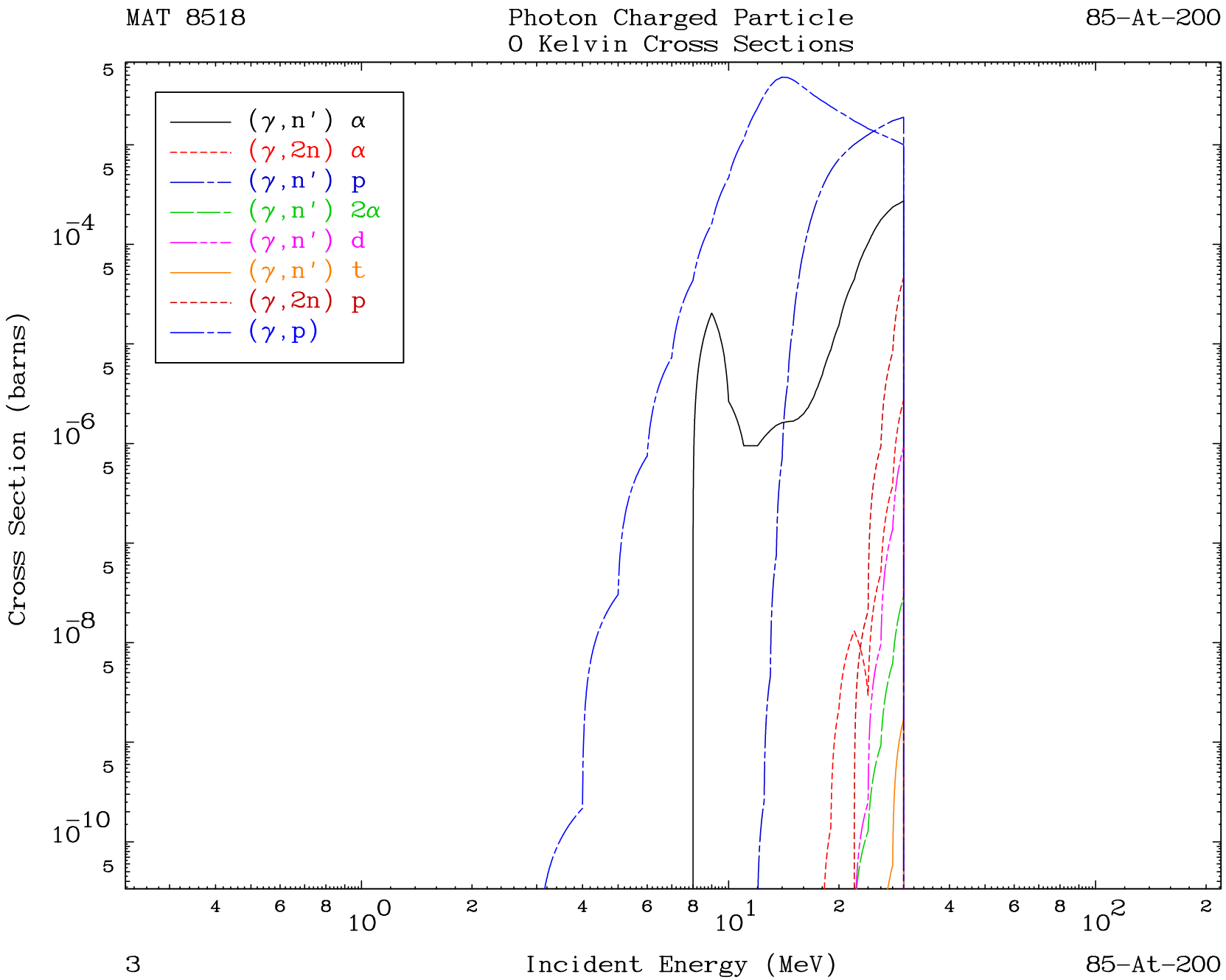
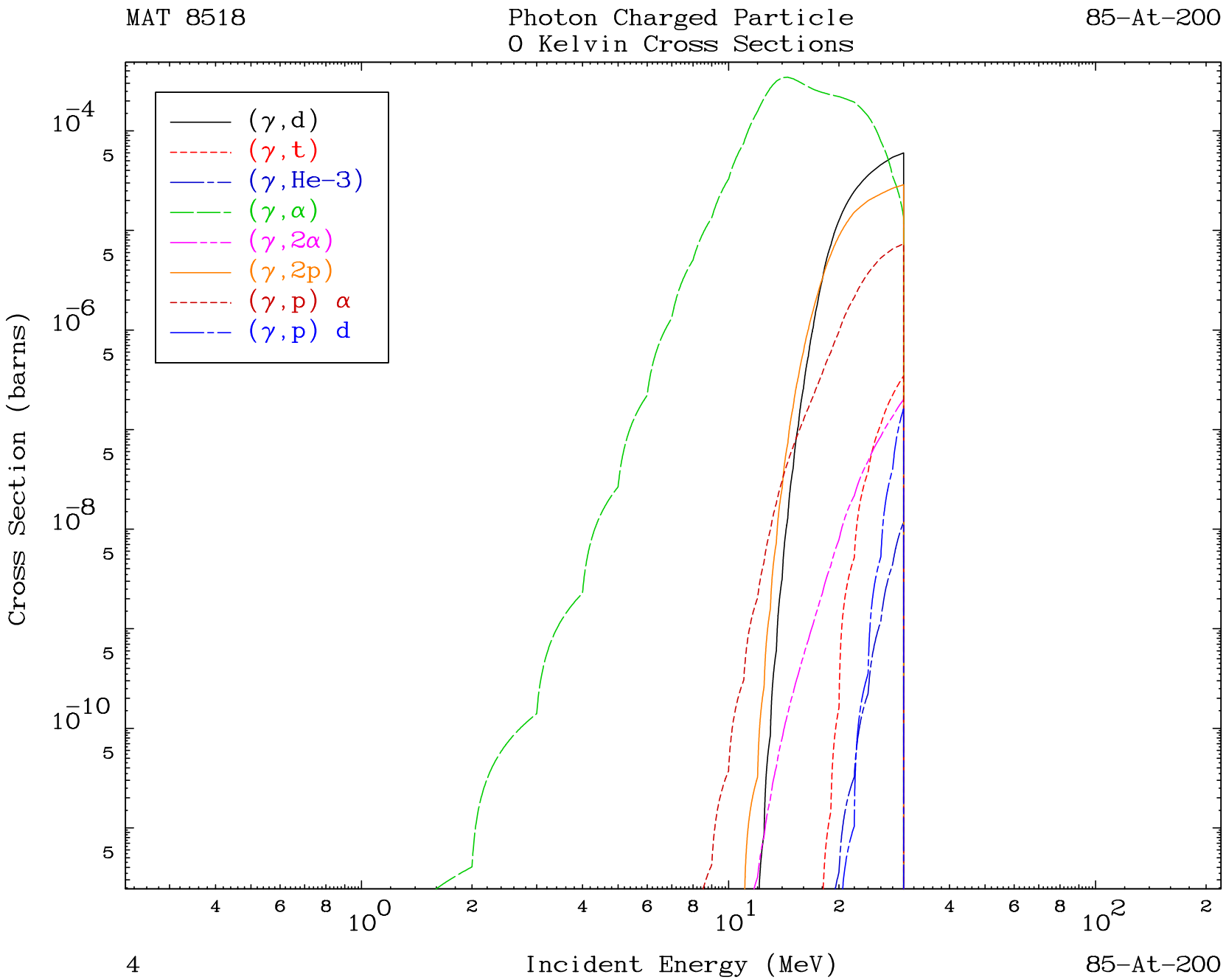
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

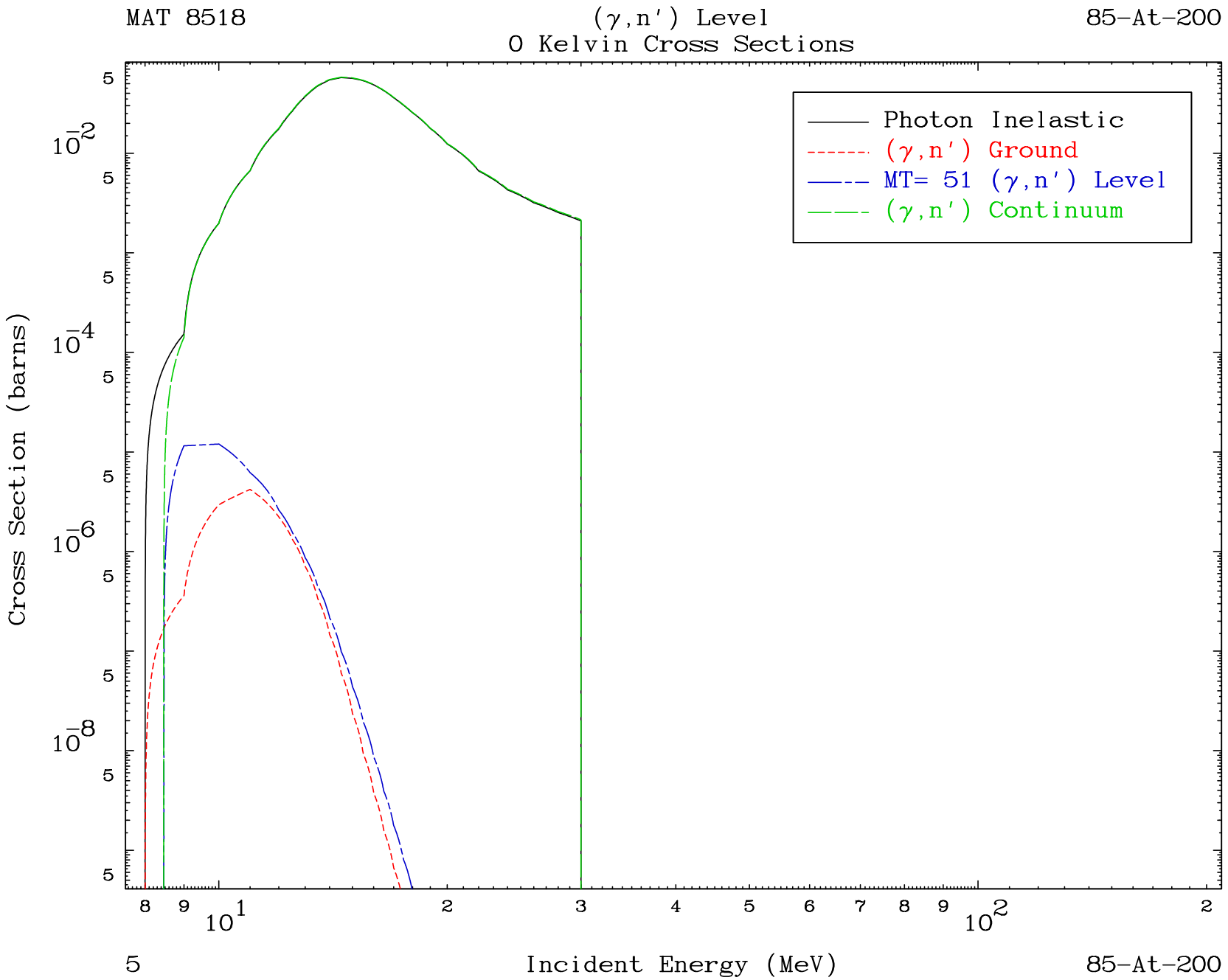
Press Mouse Button to Start

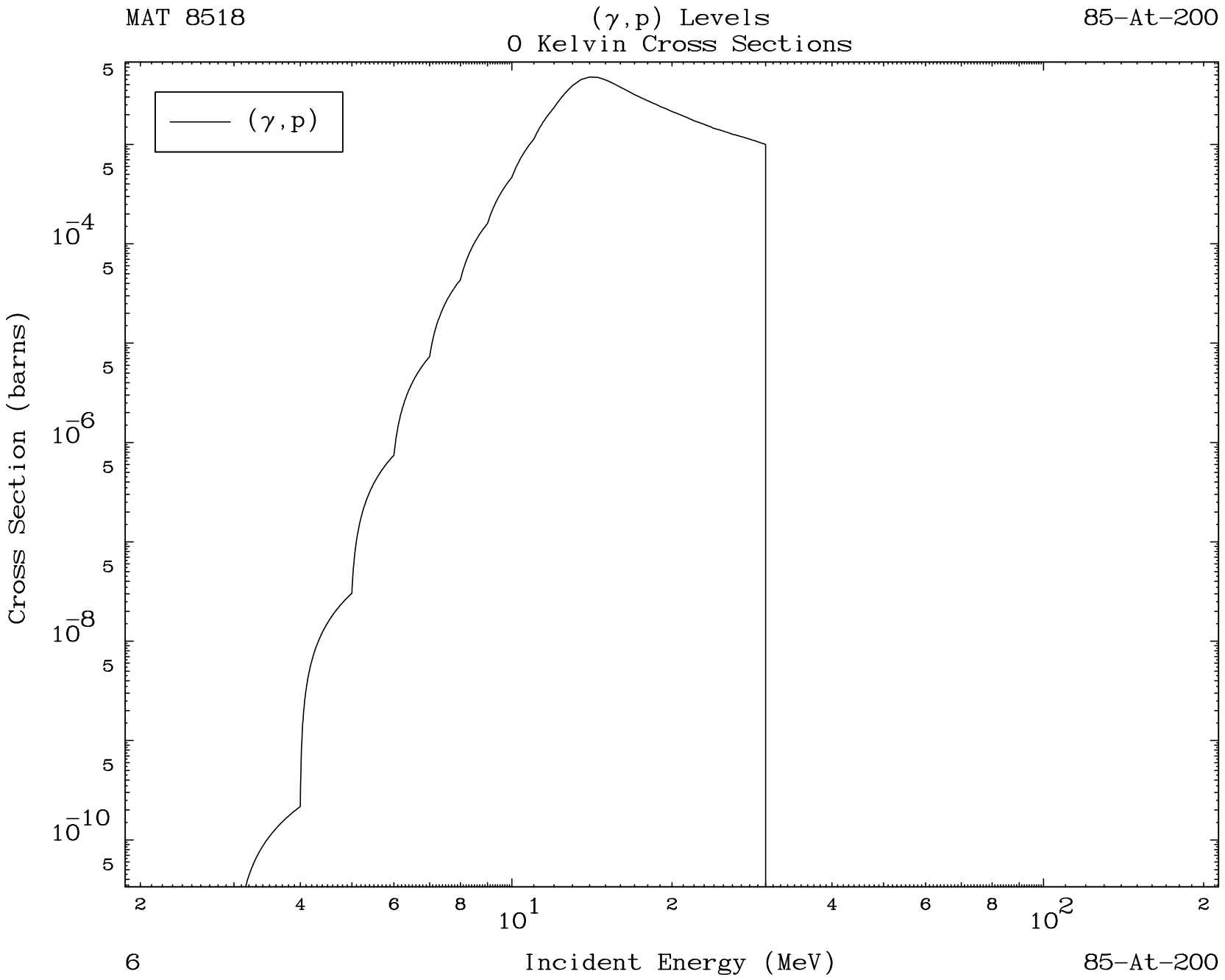

MAT 8518
Photon Major
85-At-200
0 Kelvin Cross Sections
Cross Section (barns)
Photon Inelastic
(γ,remainder)
(γ,γ)
Incident Energy (MeV)
85-At-200

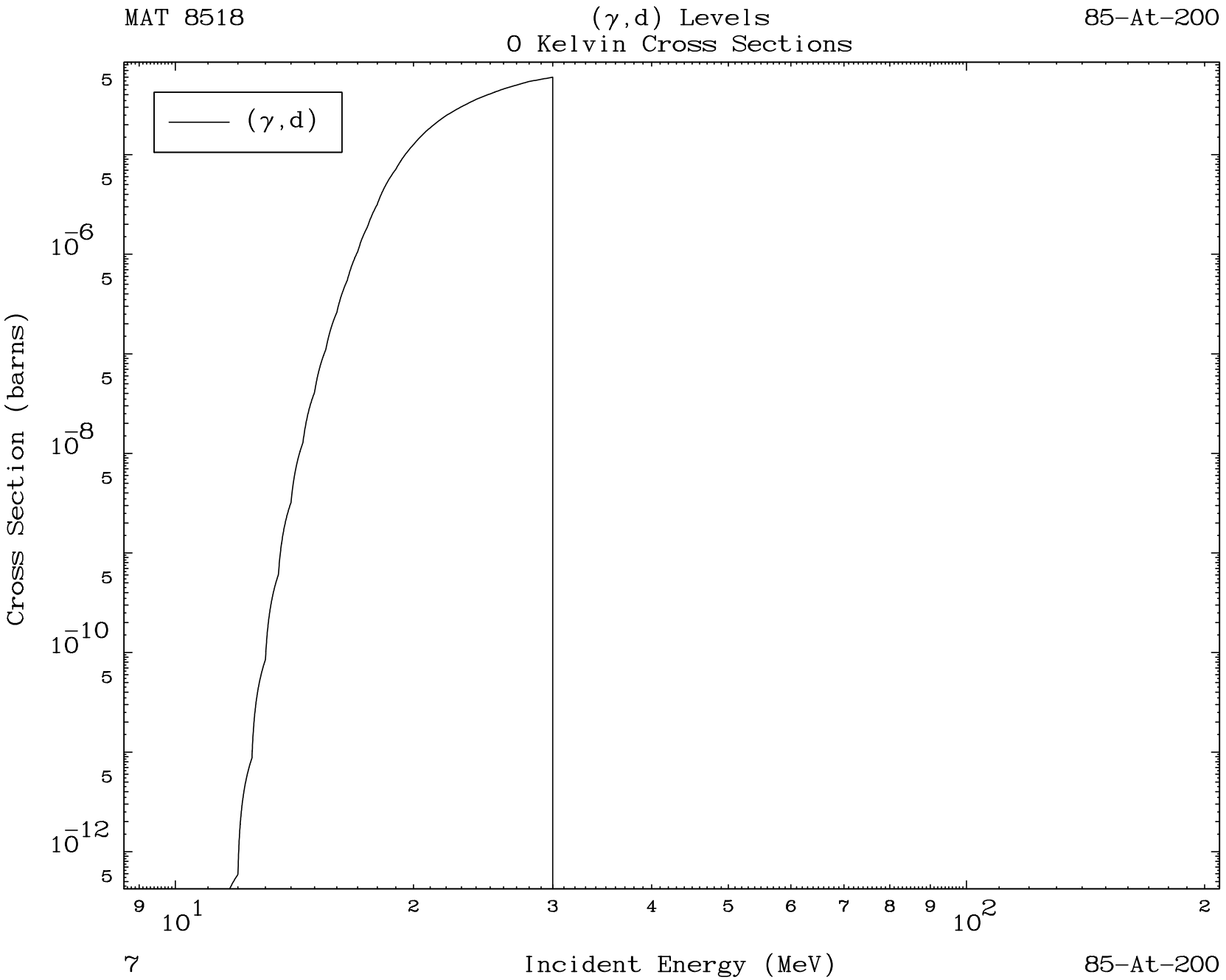

MAT 8518
Photon Neutron Production
0 Kelvin Cross Sections
85-At-200
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,n') t
(γ,2n) p
Cross Section (barns)
Incident Energy (MeV)
2
85-At-200

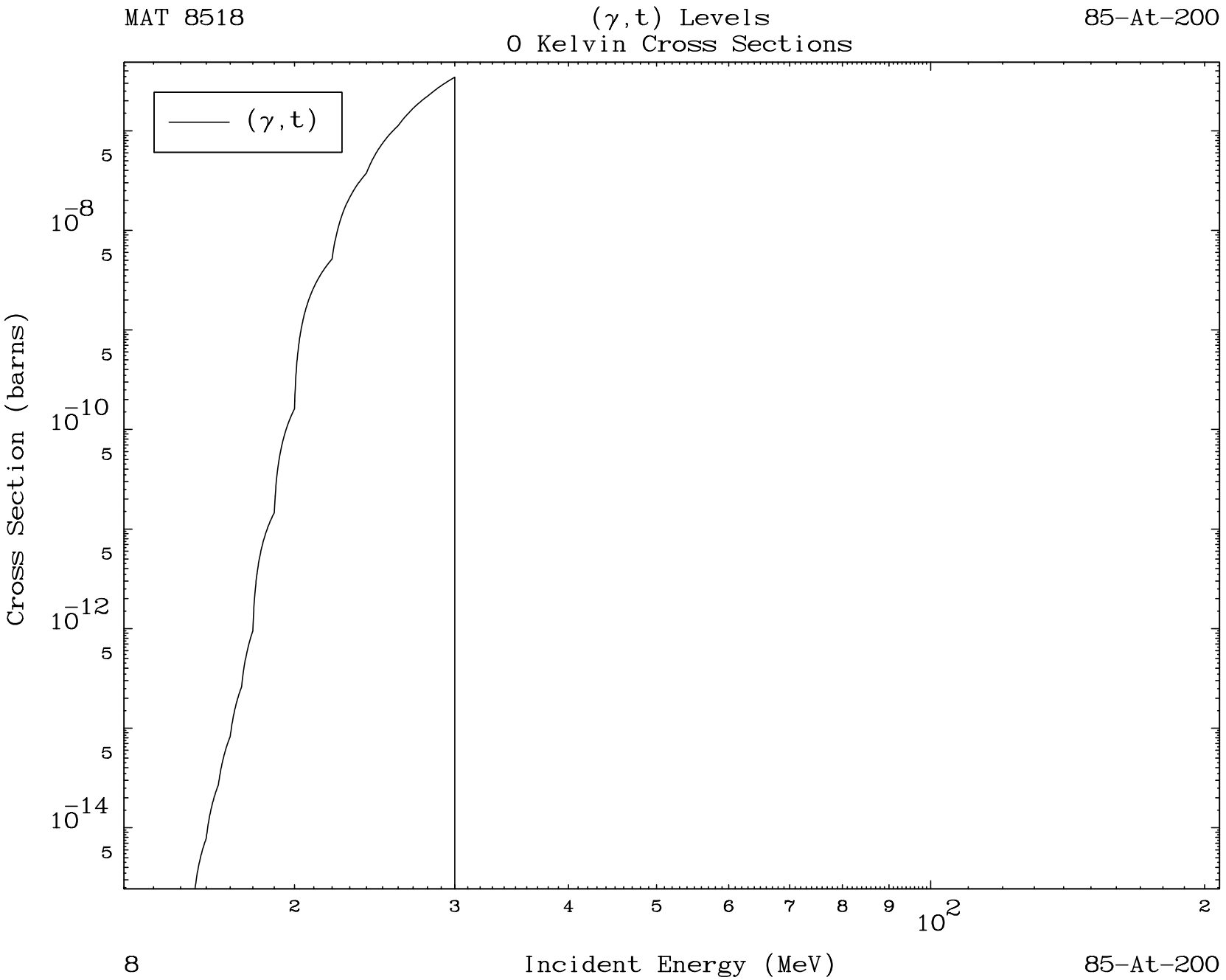

MAT 8518
Photon Charged Particle
0 Kelvin Cross Sections
85-At-200
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
Cross Section (barns)
Incident Energy (MeV)
3
85-At-200

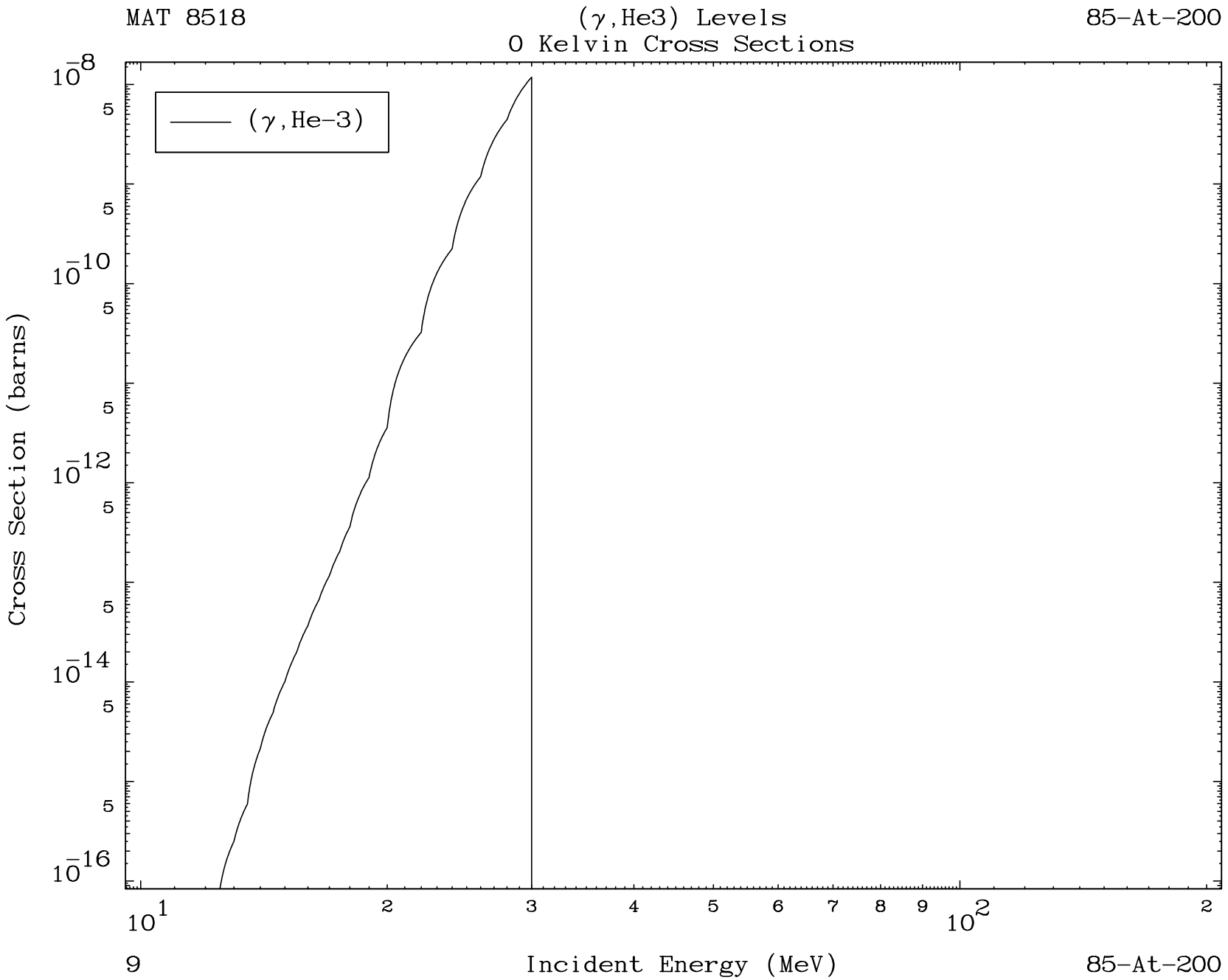

MAT 8518
Photon Charged Particle
0 Kelvin Cross Sections
85-At-200
(γ,d)
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
Cross Section (barns)
Incident Energy (MeV)
4
85-At-200

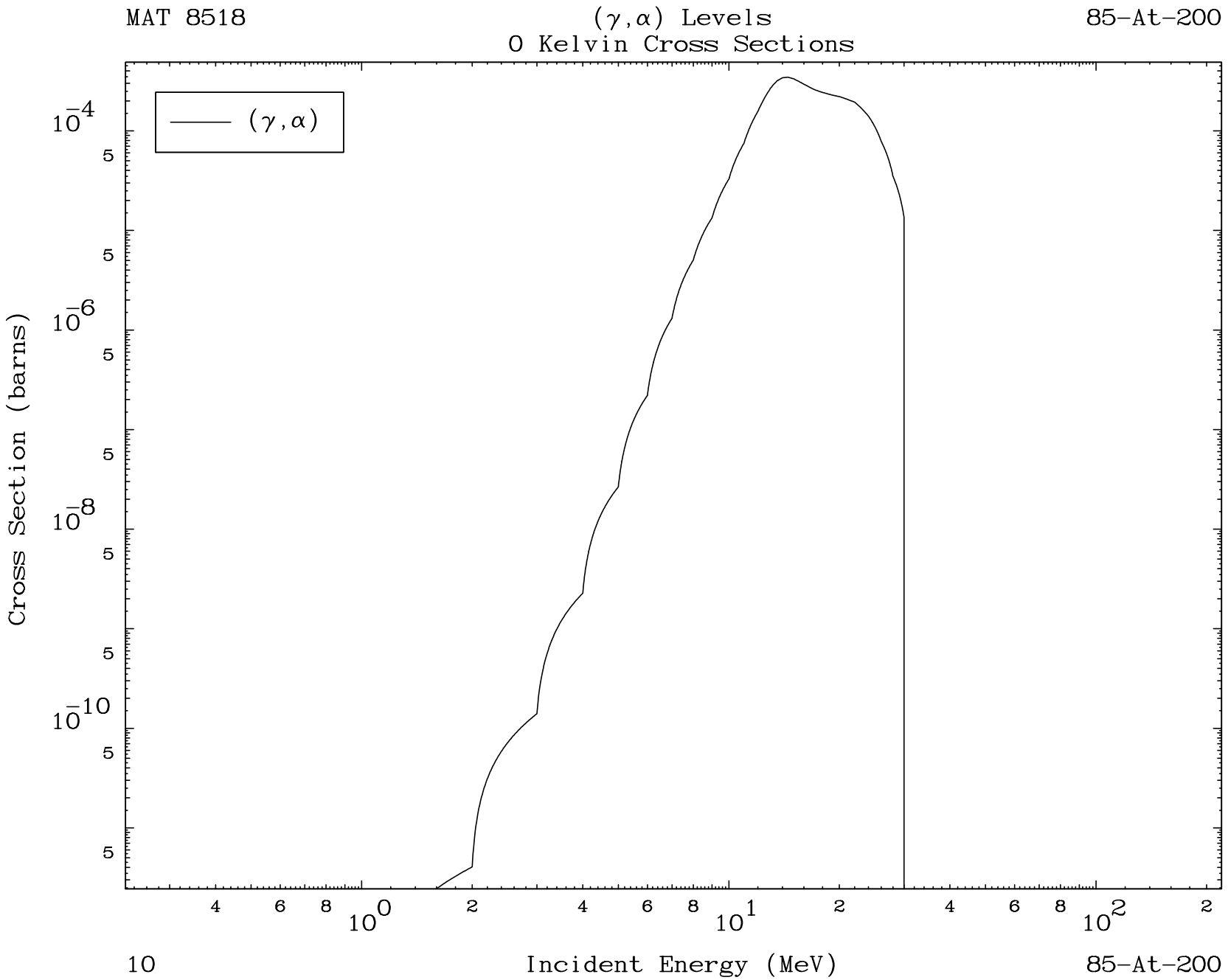

MAT 8518
(γ,n') Level
85-At-200
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
85-At-200

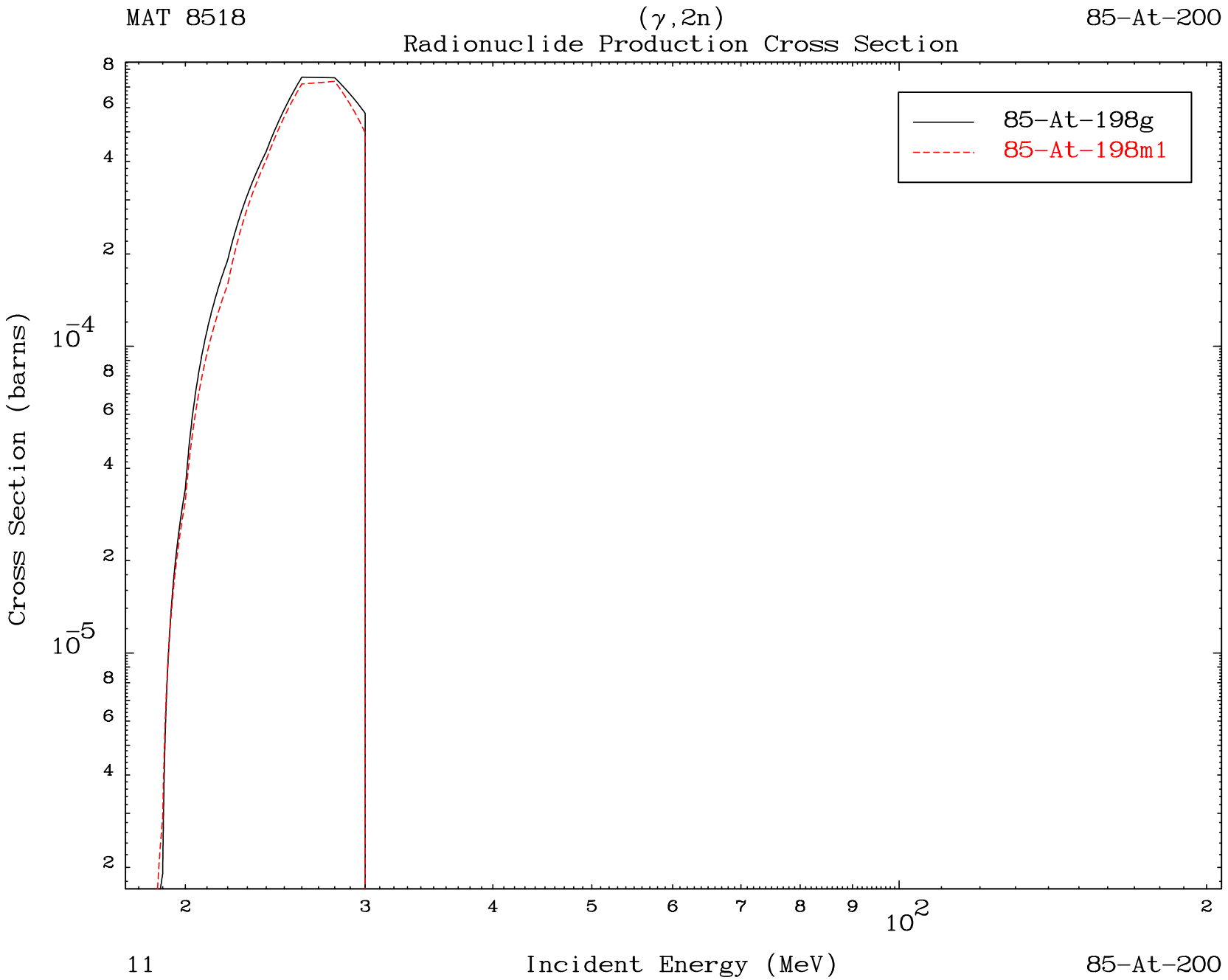

MAT 8518
(γ,p) Levels
85-At-200
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
6
85-At-200

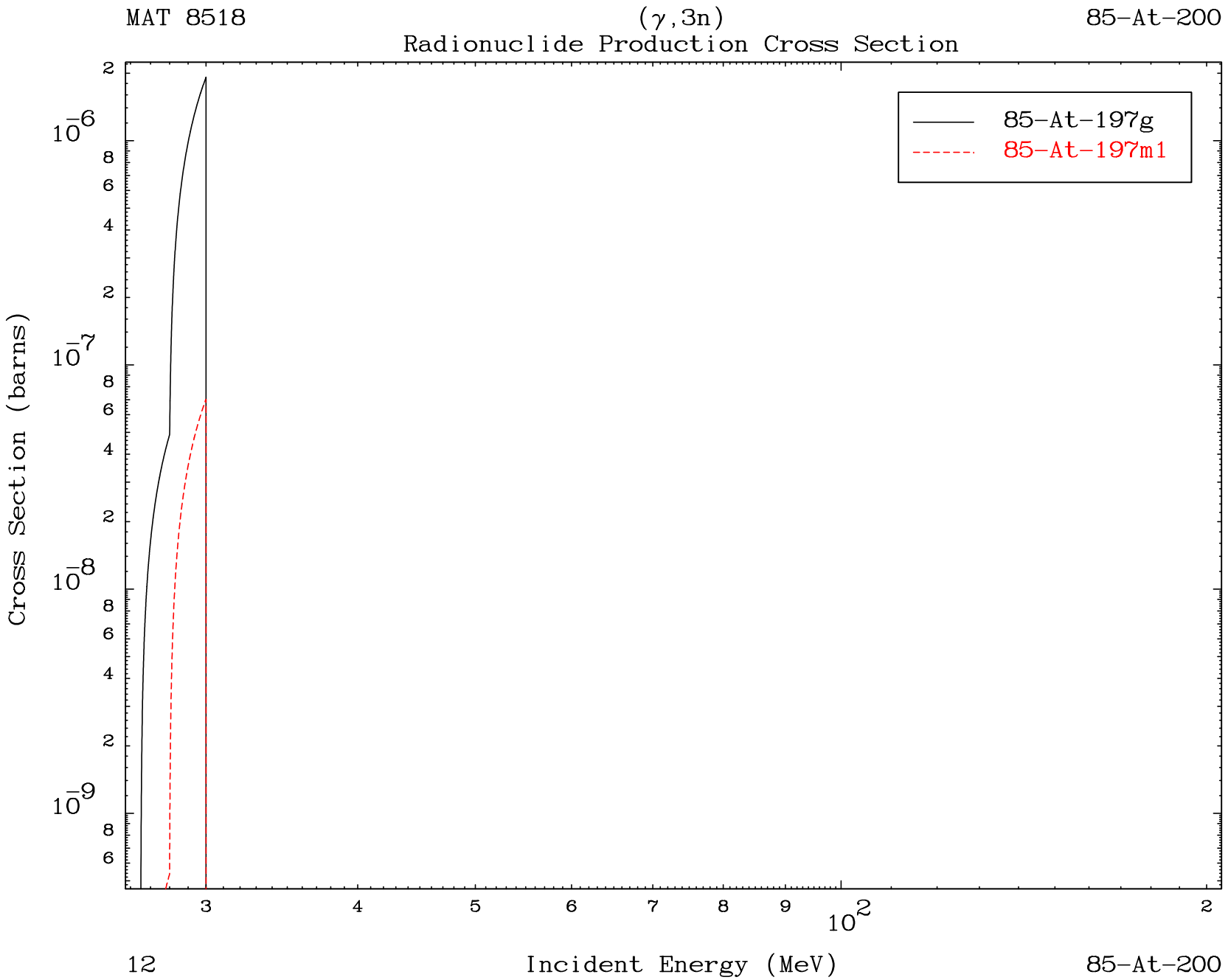

MAT 8518
(γ,d) Levels
85-At-200
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
Incident Energy (MeV)
85-At-200
7

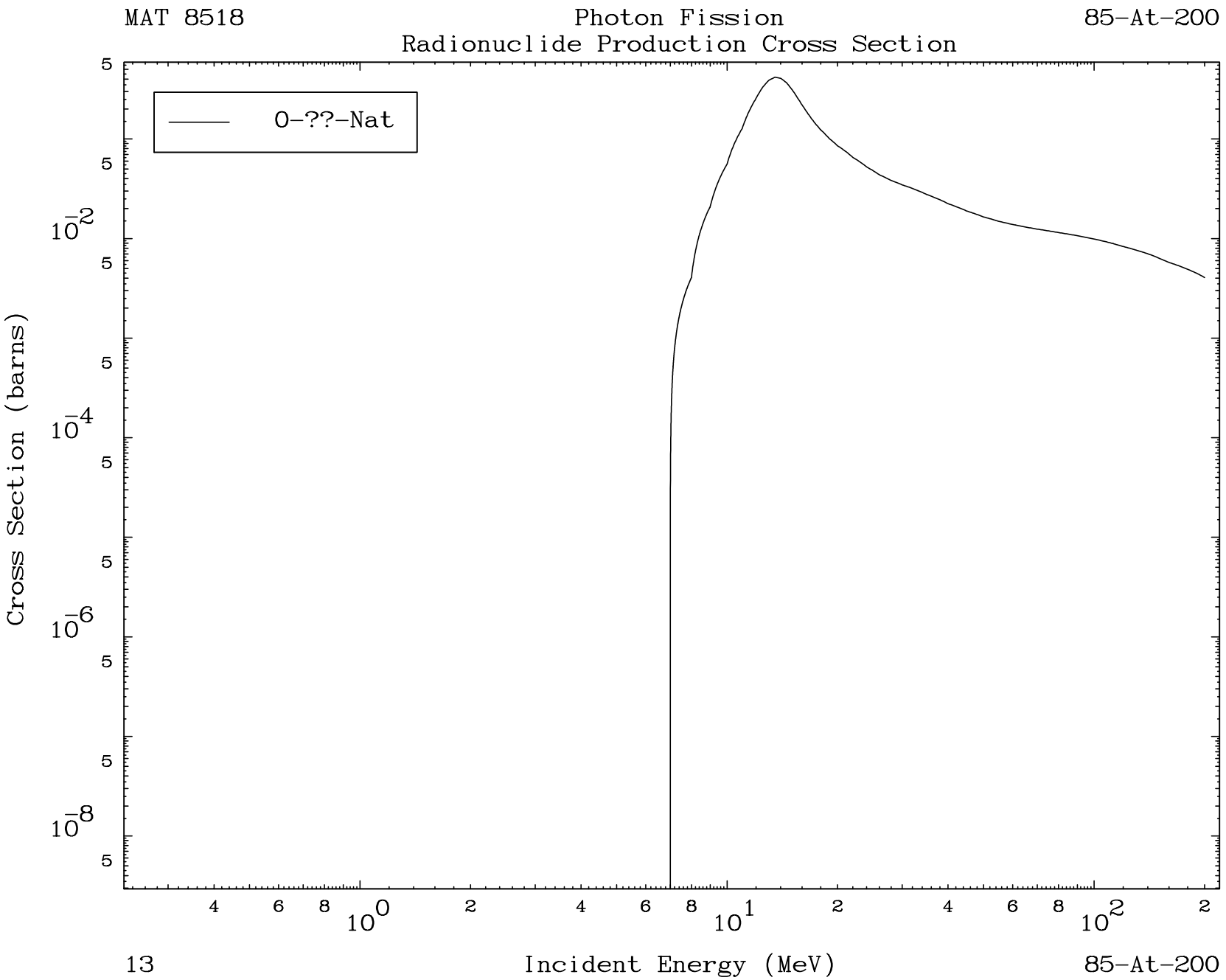

MAT 8518
(γ,t) Levels
85-At-200
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10^2
2
8
Incident Energy (MeV)
85-At-200

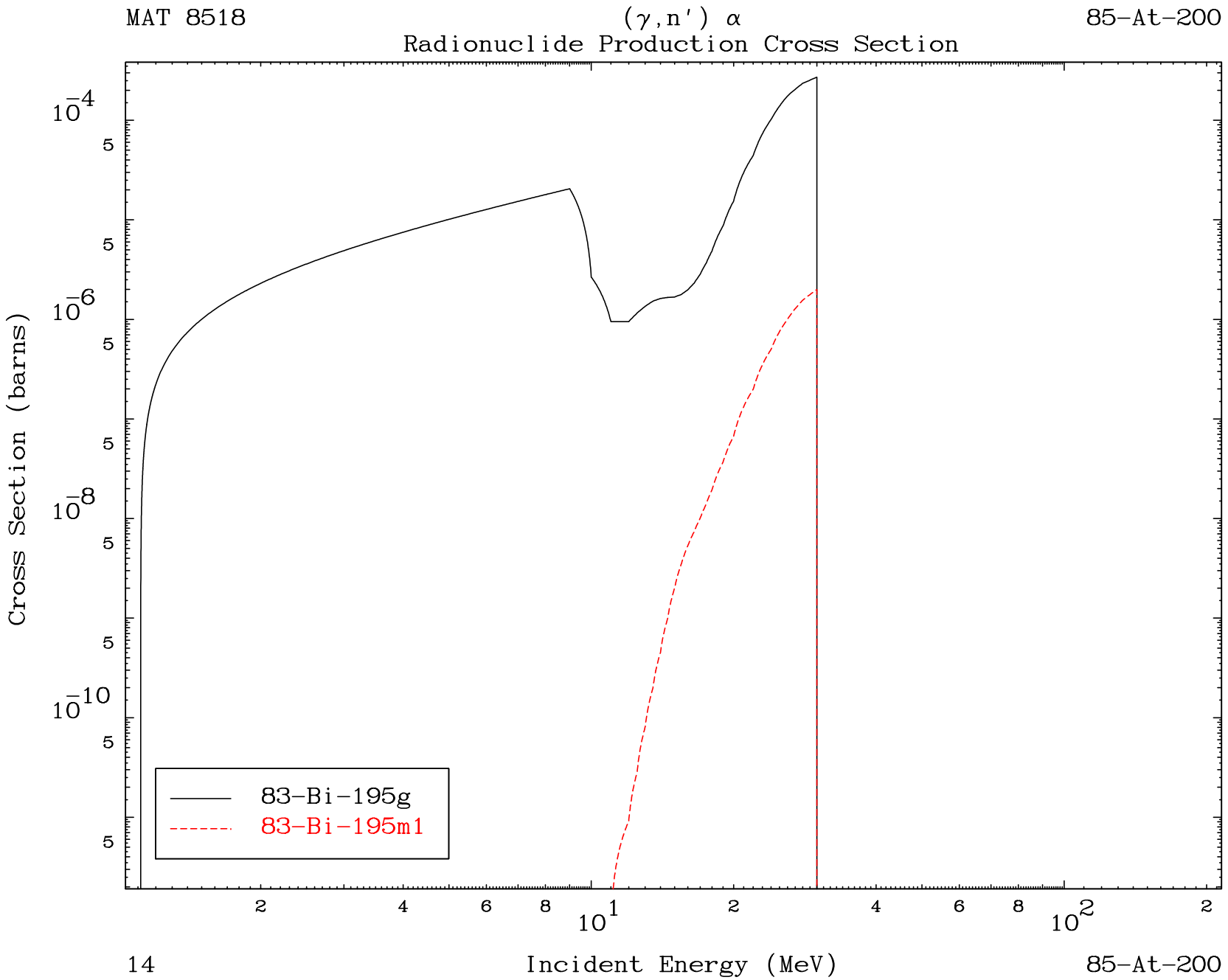

MAT 8518
(γ,He3) Levels
85-At-200
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
10^-16
10^1
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
85-At-200

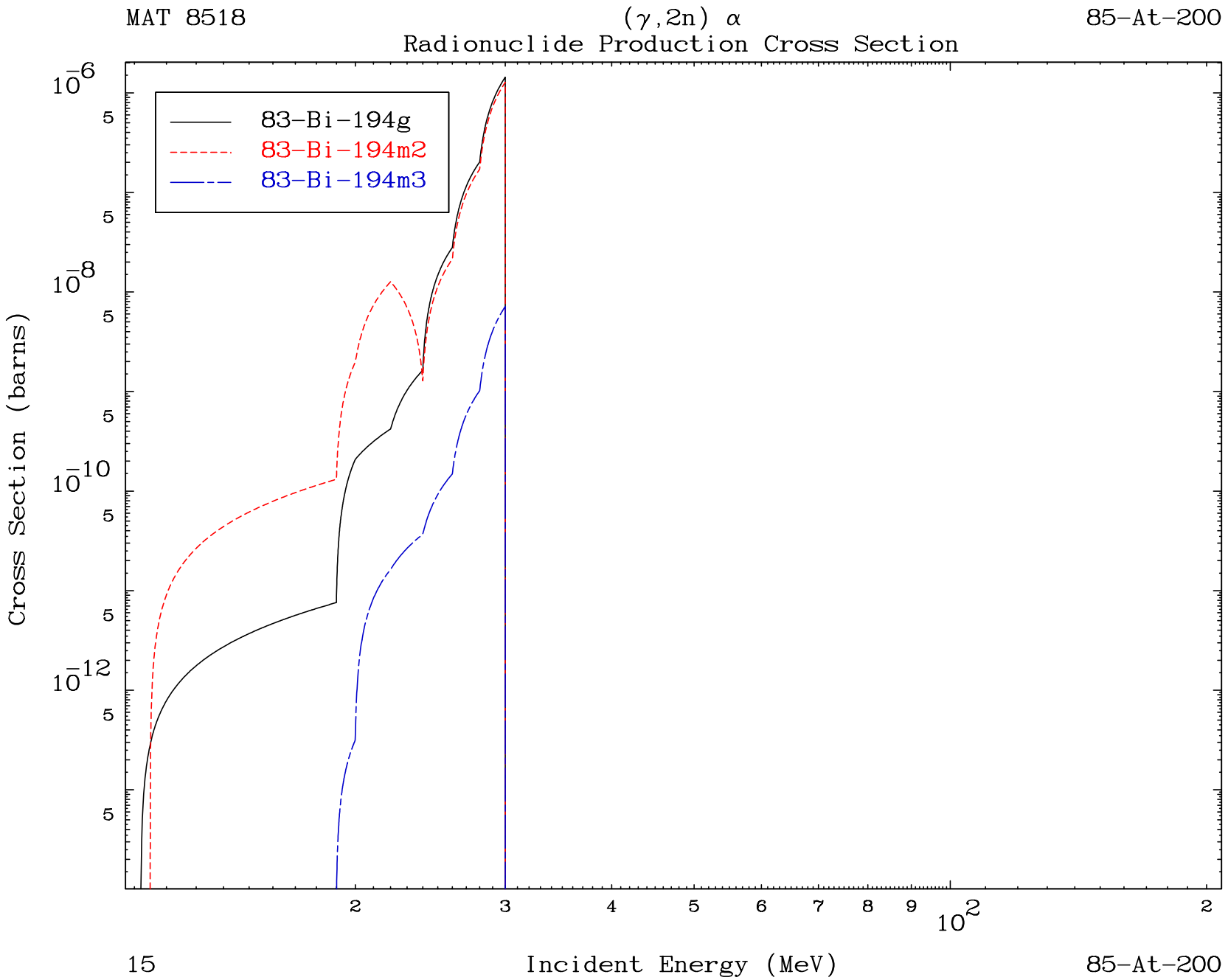

MAT 8518
(γ,α) Levels
85-At-200
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^0
10^1
10^2
10
85-At-200

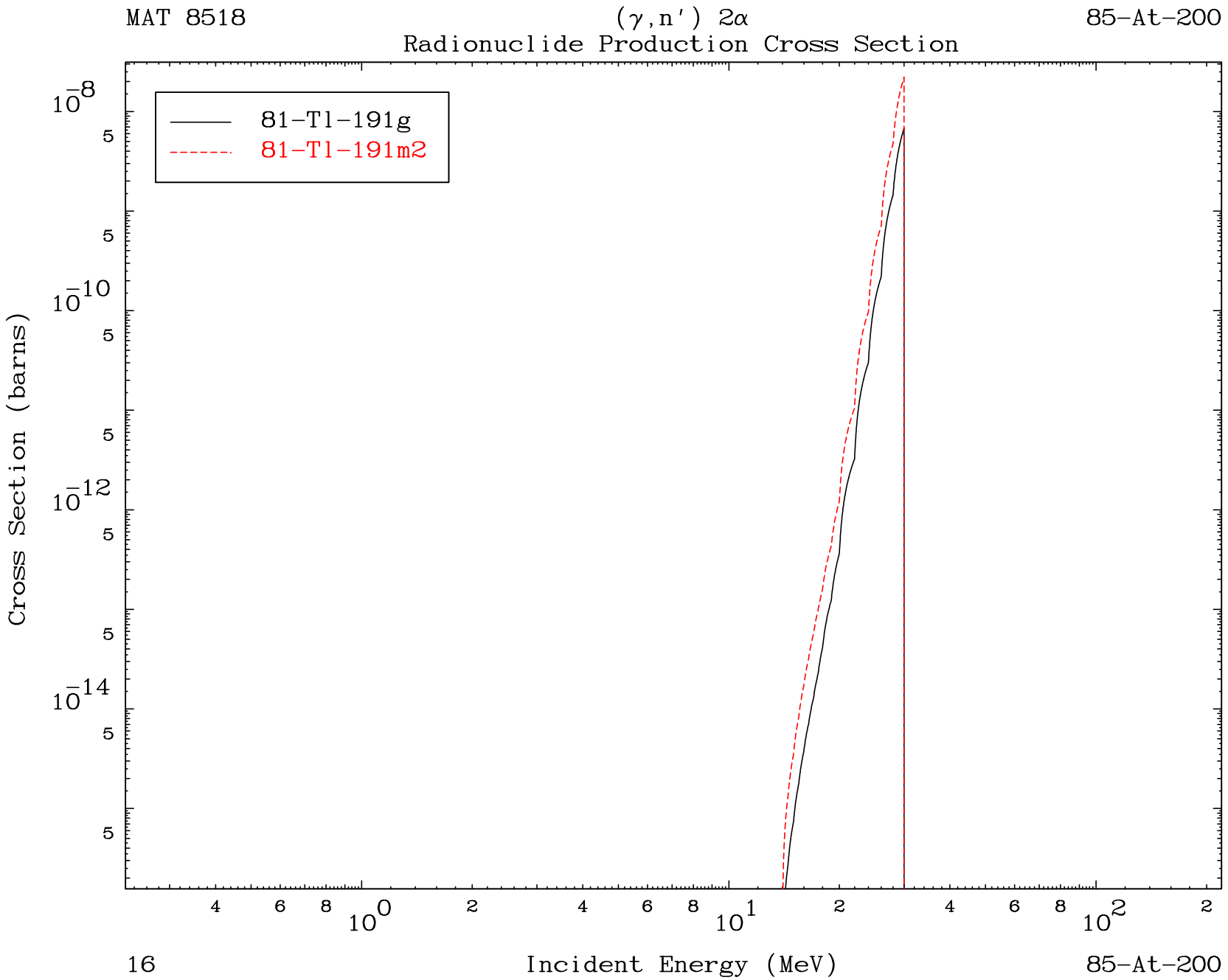

MAT 8518
(γ,2n)
85-At-200
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
10^-4
10^-5
8
6
4
2
2
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
85-At-200

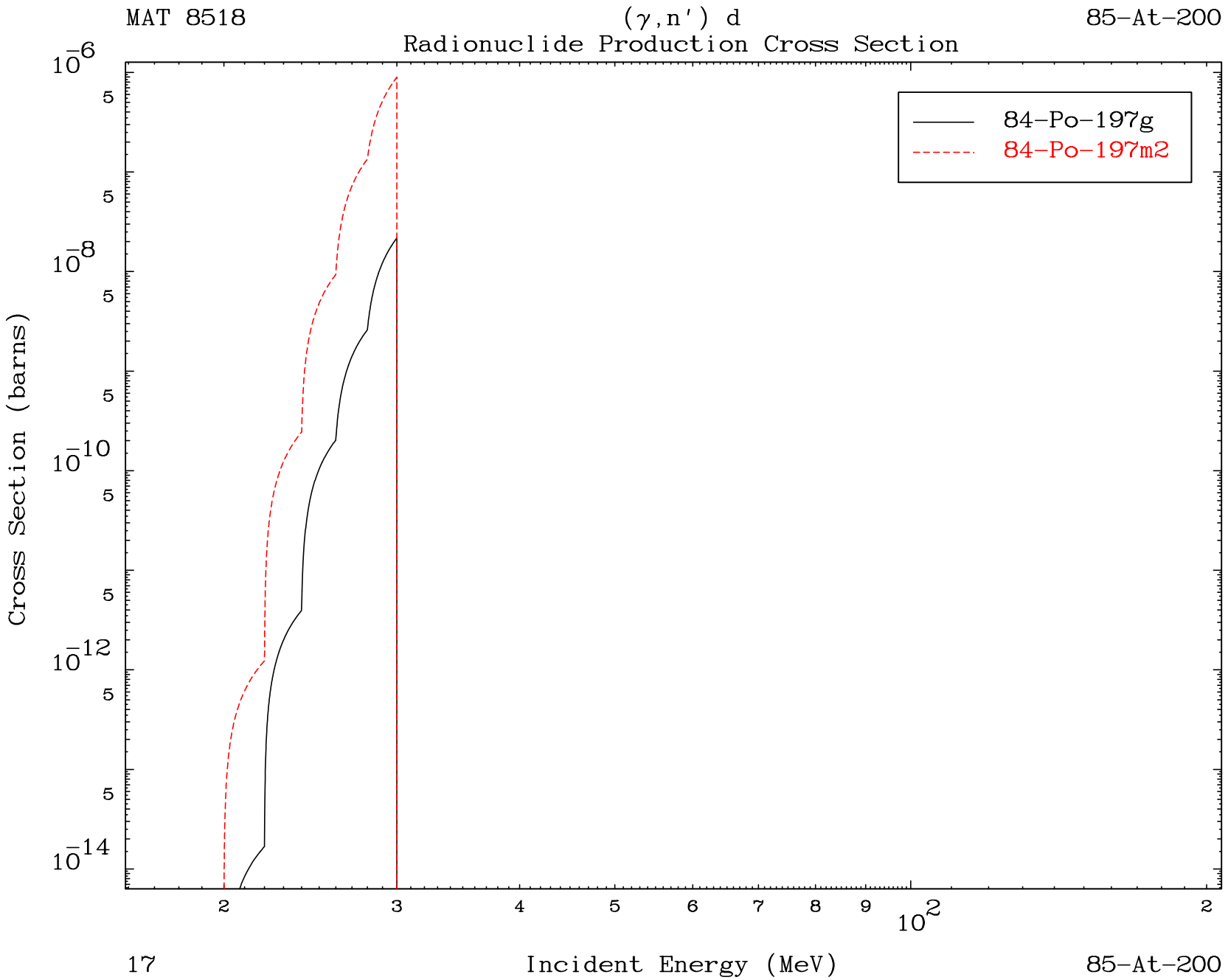

MAT 8518
(γ,3n)
85-At-200
Radionuclide Production Cross Section
85-At-197g
85-At-197m1
Cross Section (barns)
Incident Energy (MeV)
12
85-At-200

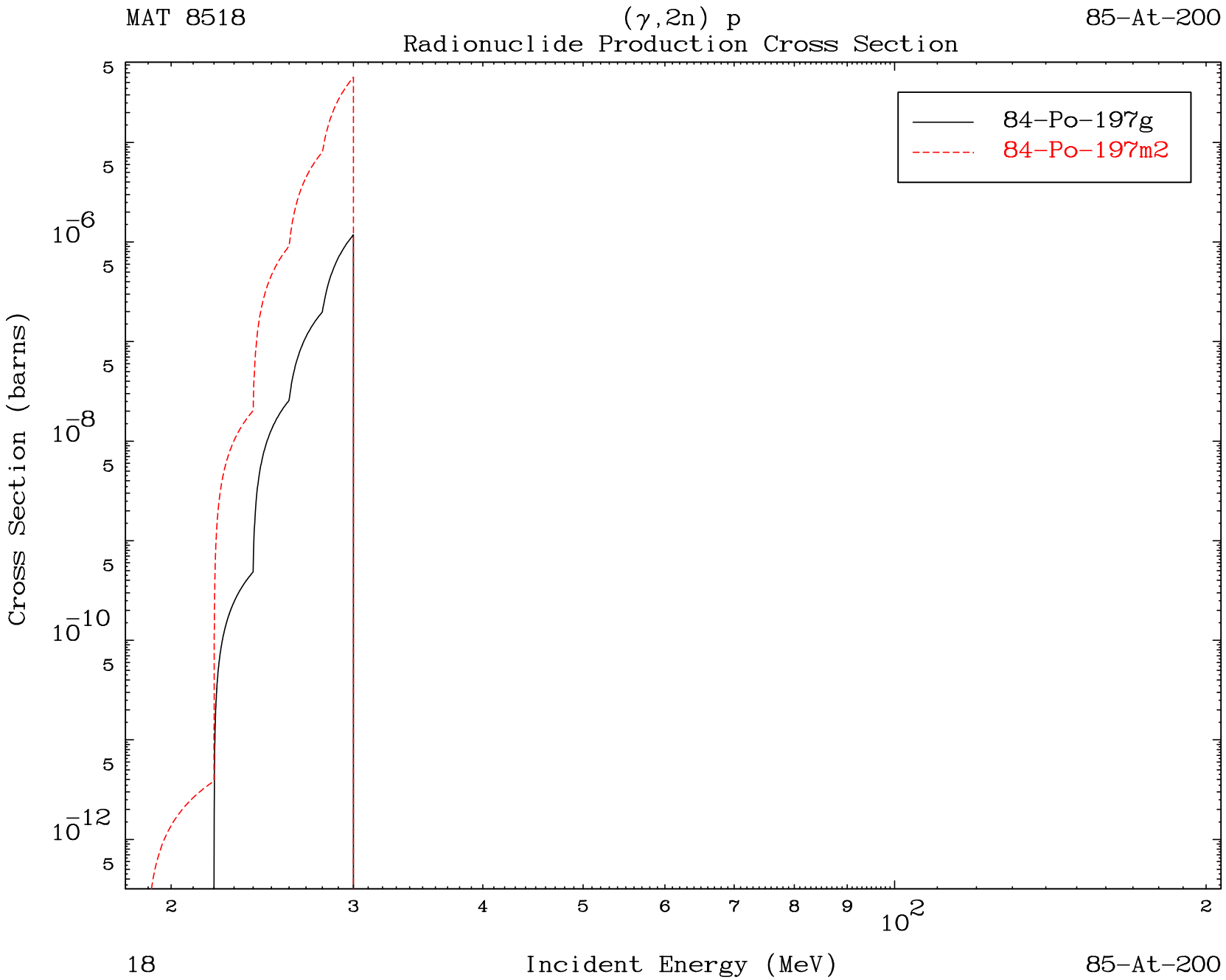

MAT 8518
Photon Fission
85-At-200
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
13
85-At-200

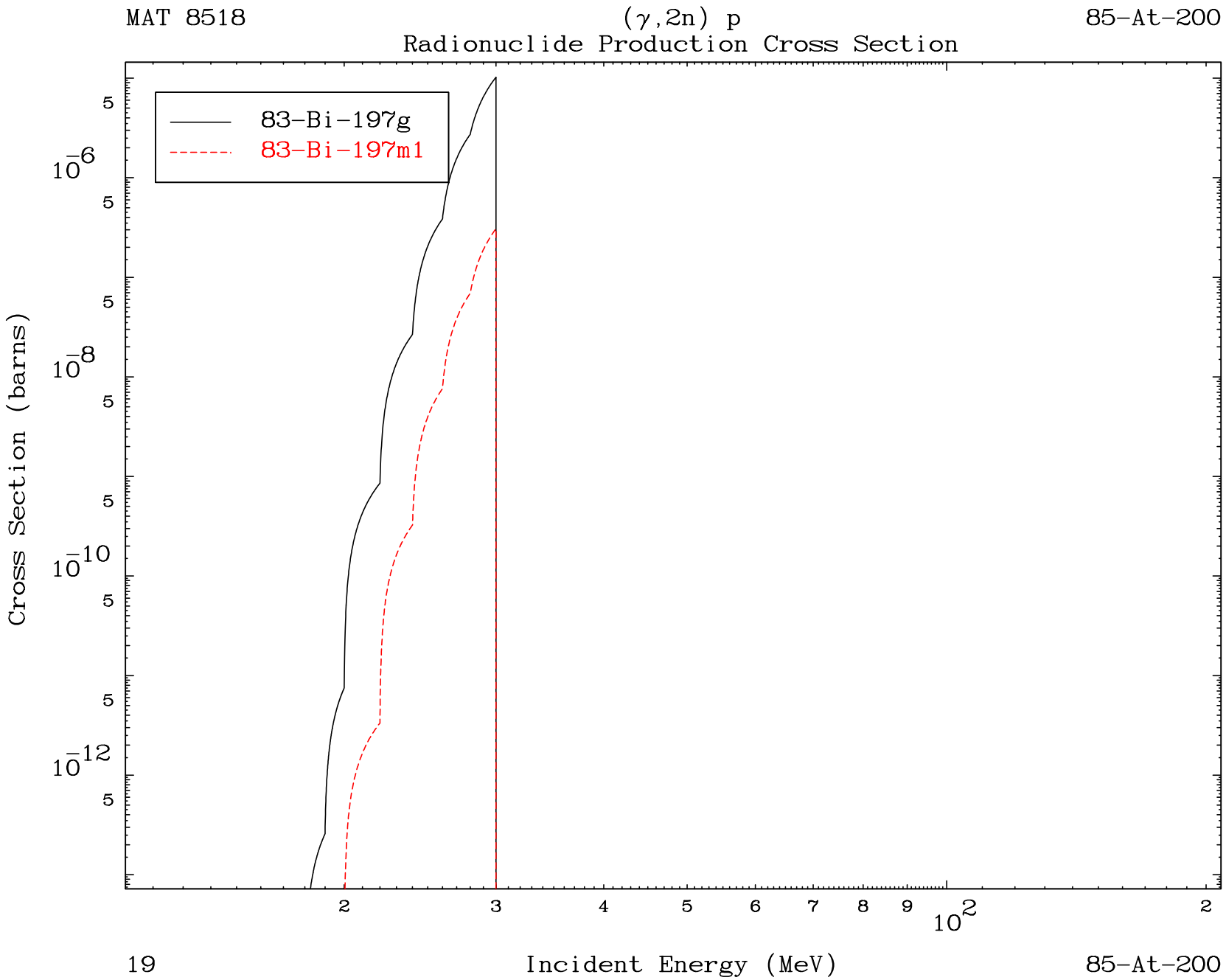

MAT 8518
(γ,n') α
85-At-200
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
4
6
8
101
102
83-Bi-195g
83-Bi-195m1
14
Incident Energy (MeV)
85-At-200

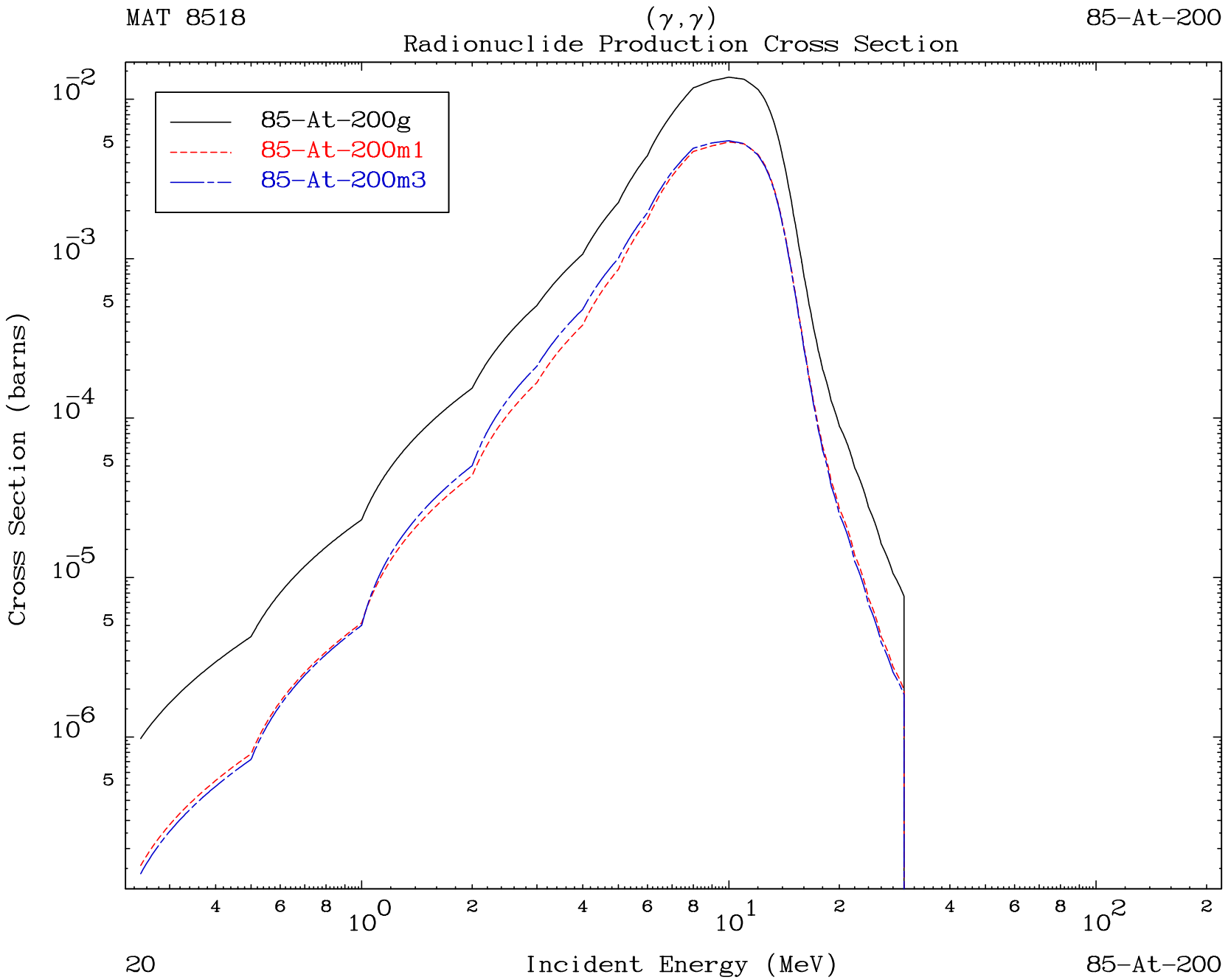

MAT 8518
(γ,2n) α
85-At-200
Radionuclide Production Cross Section
83-Bi-194g
83-Bi-194m2
83-Bi-194m3
Cross Section (barns)
Incident Energy (MeV)
15
85-At-200

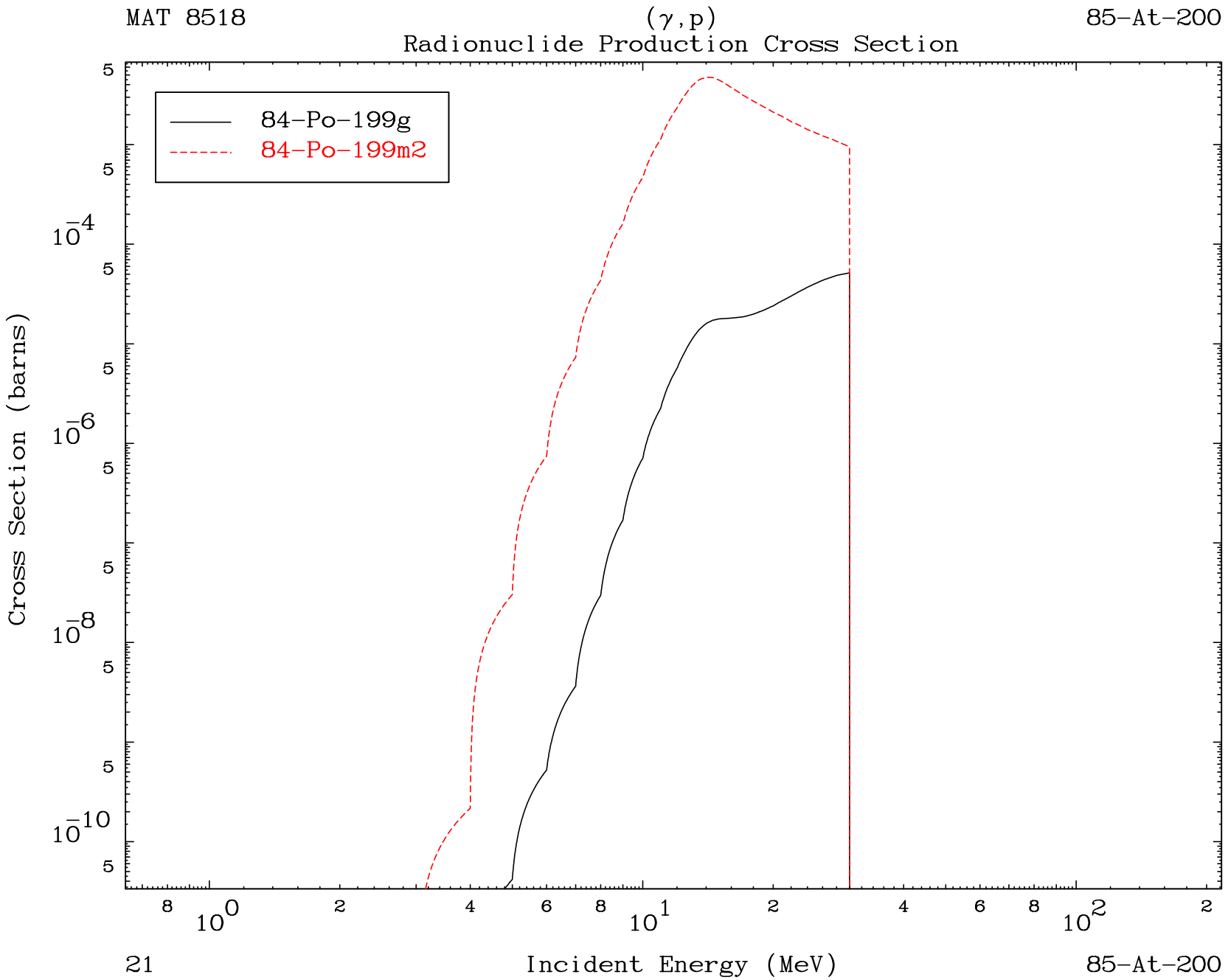

MAT 8518
(γ,n') 2α
85-At-200
Radionuclide Production Cross Section
81-Tl-191g
81-Tl-191m2
Cross Section (barns)
Incident Energy (MeV)
16
85-At-200

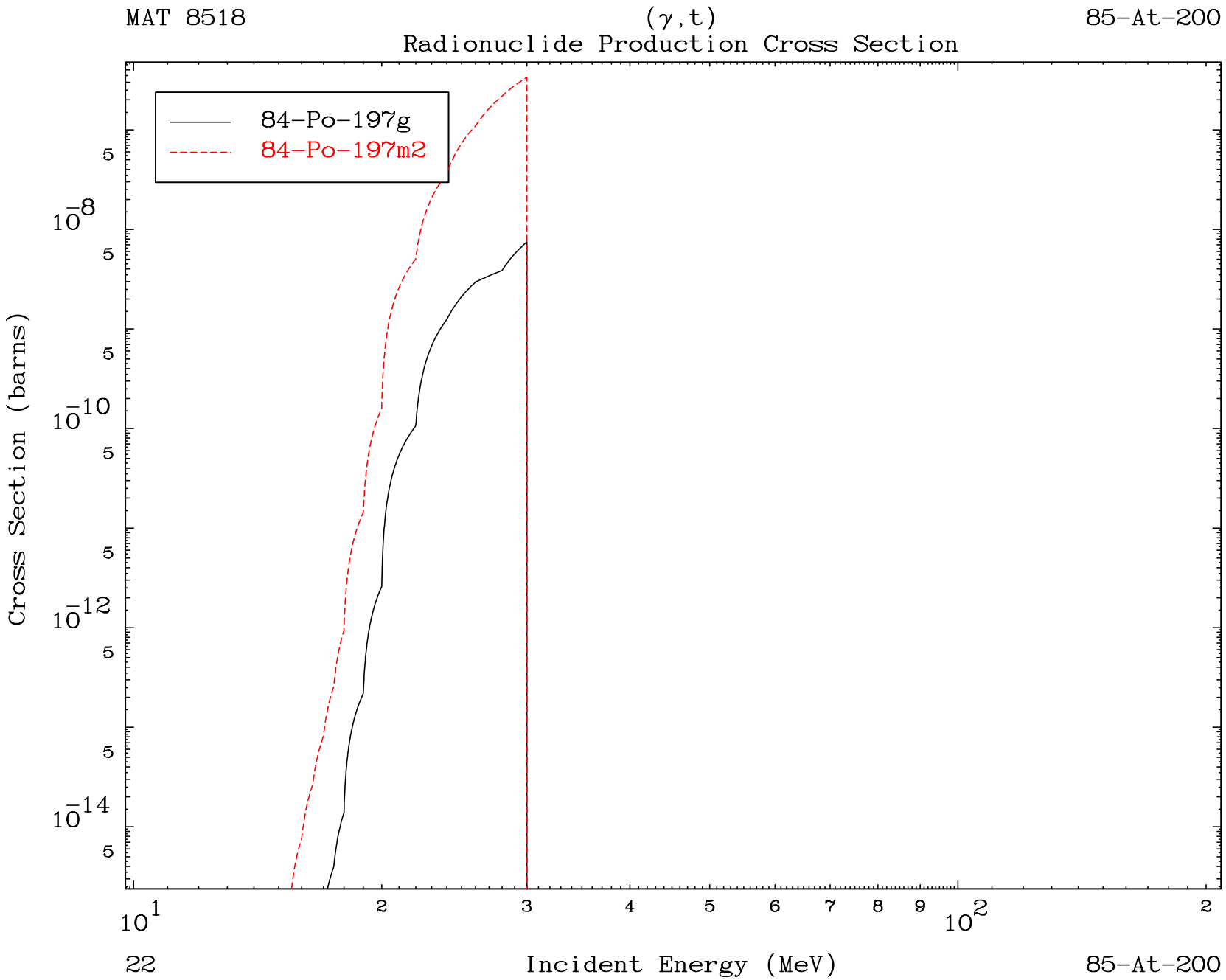

MAT 8518
(γ,n') d
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
Incident Energy (MeV)
17
85-At-200

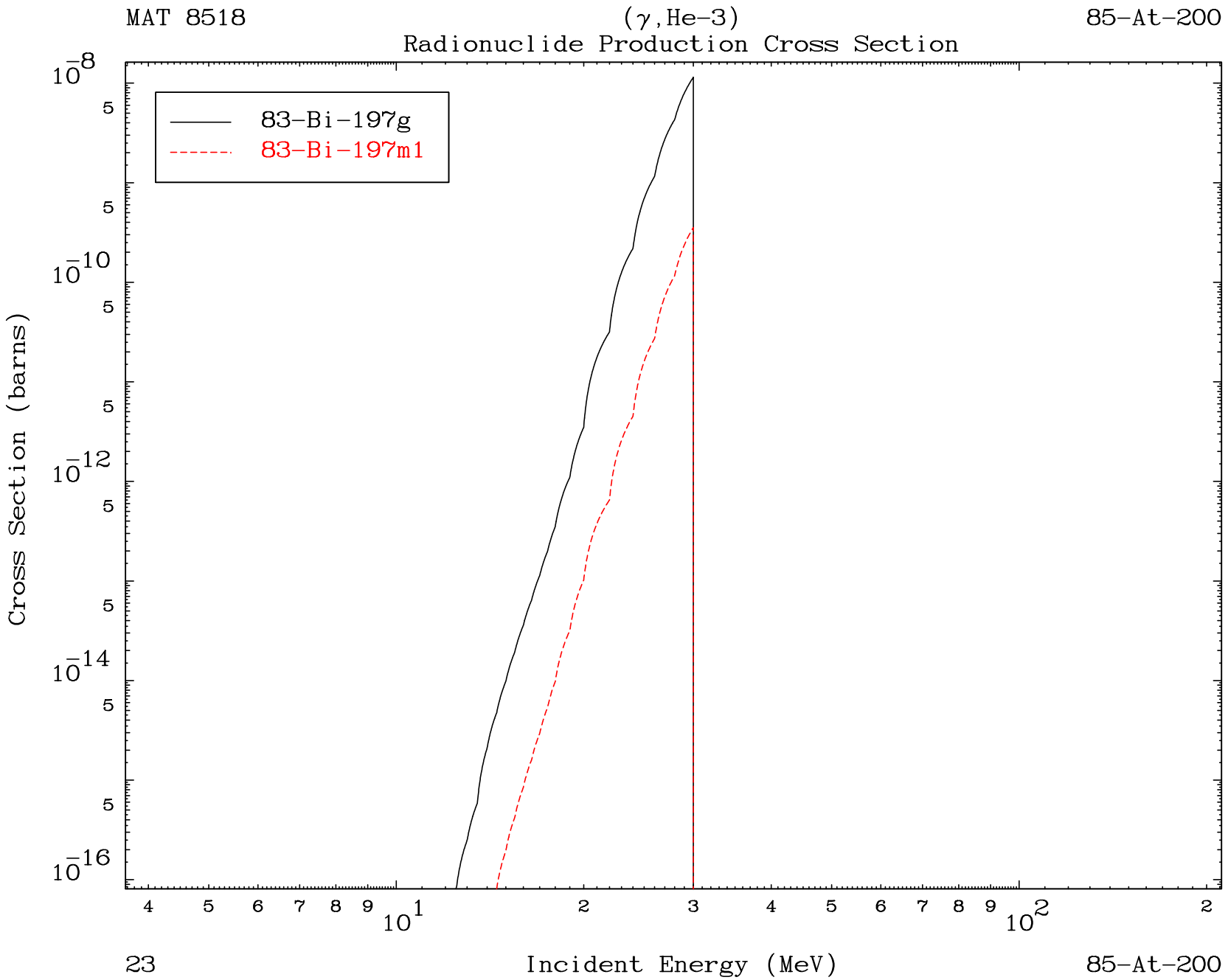

MAT 8518
(γ,2n) p
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
Incident Energy (MeV)
18
85-At-200

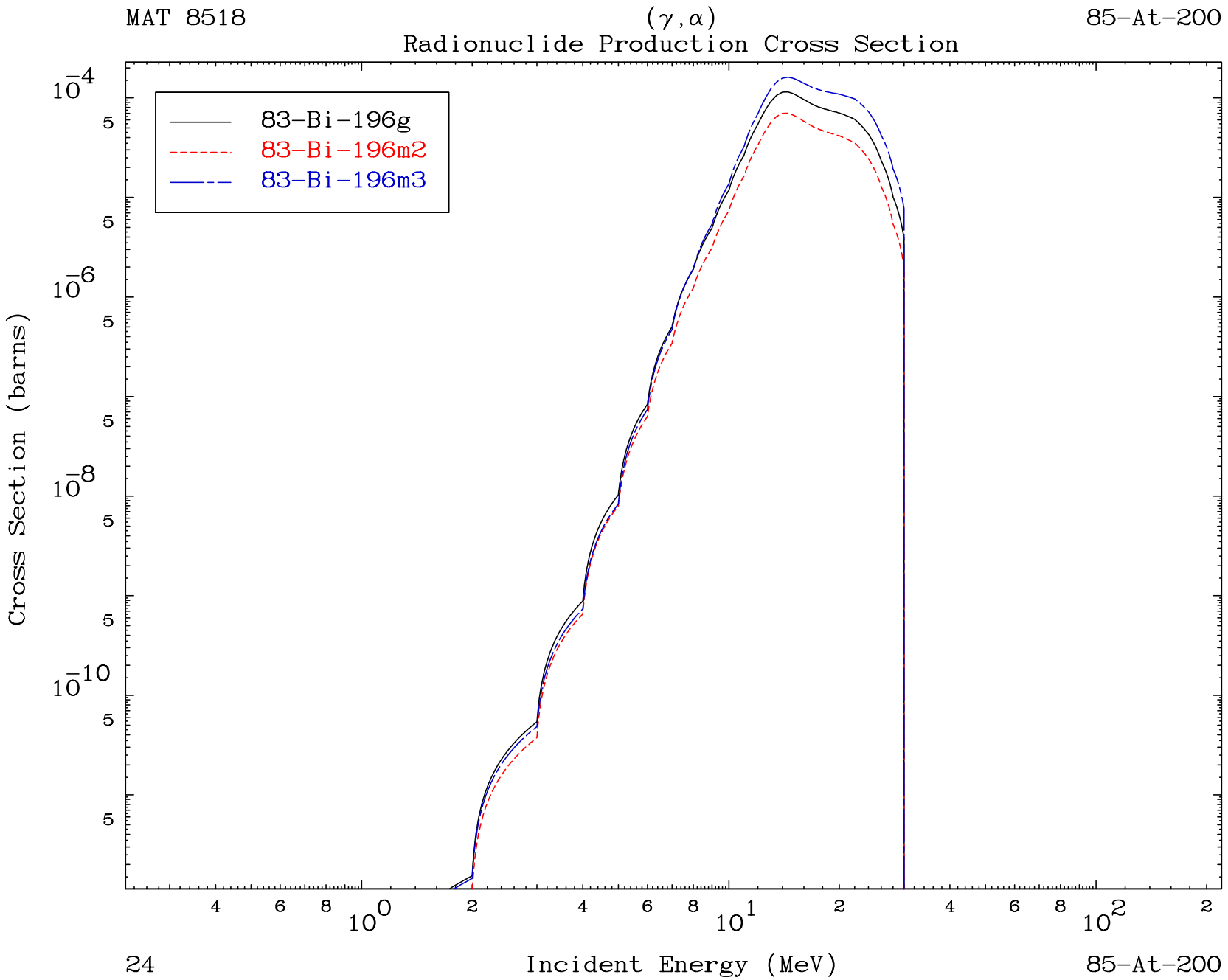

MAT 8518
(γ,2n) p
85-At-200
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
85-At-200

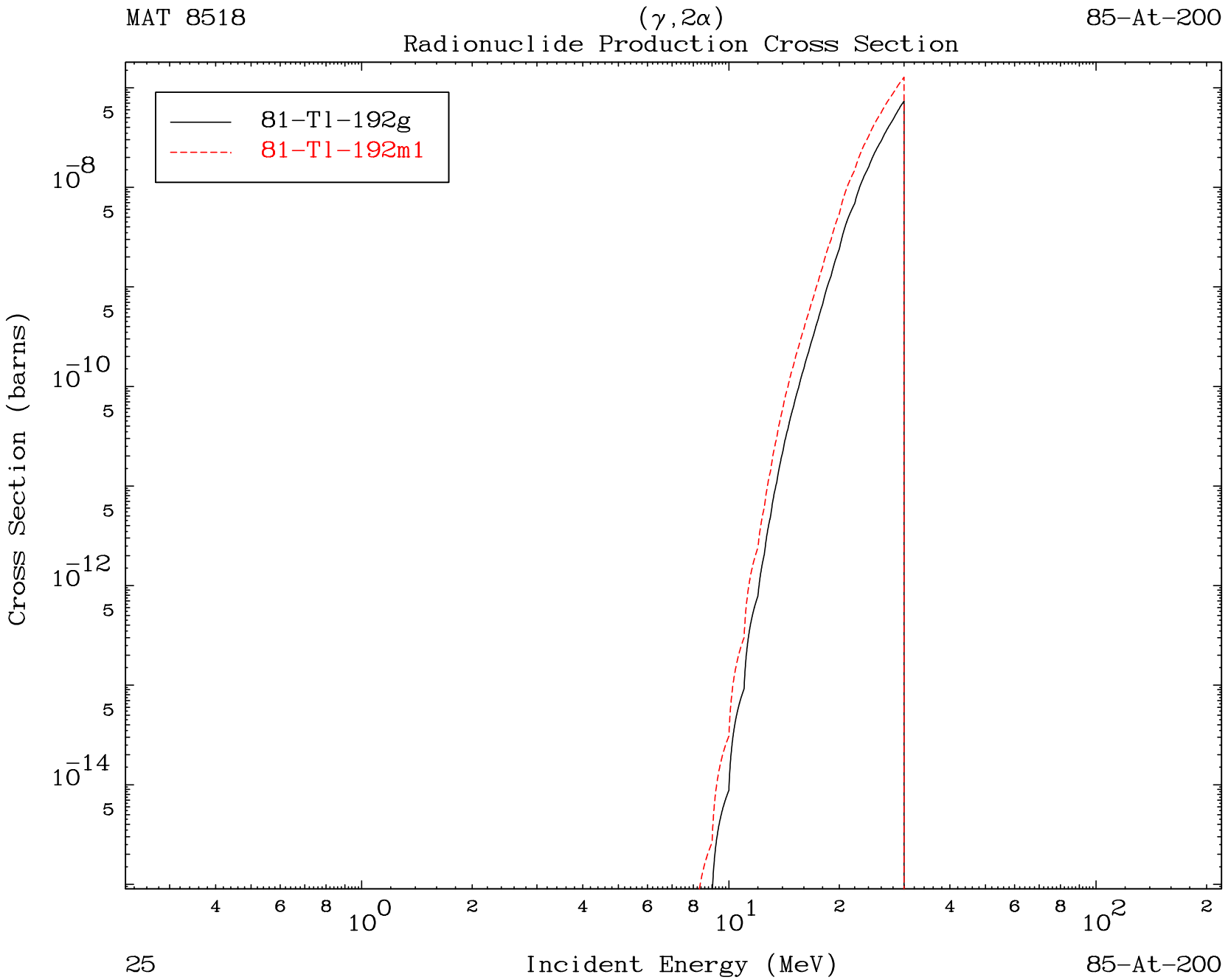

MAT 8518
(γ,γ)
85-At-200
Radionuclide Production Cross Section
85-At-200g
85-At-200m1
85-At-200m3
Cross Section (barns)
Incident Energy (MeV)
20
85-At-200

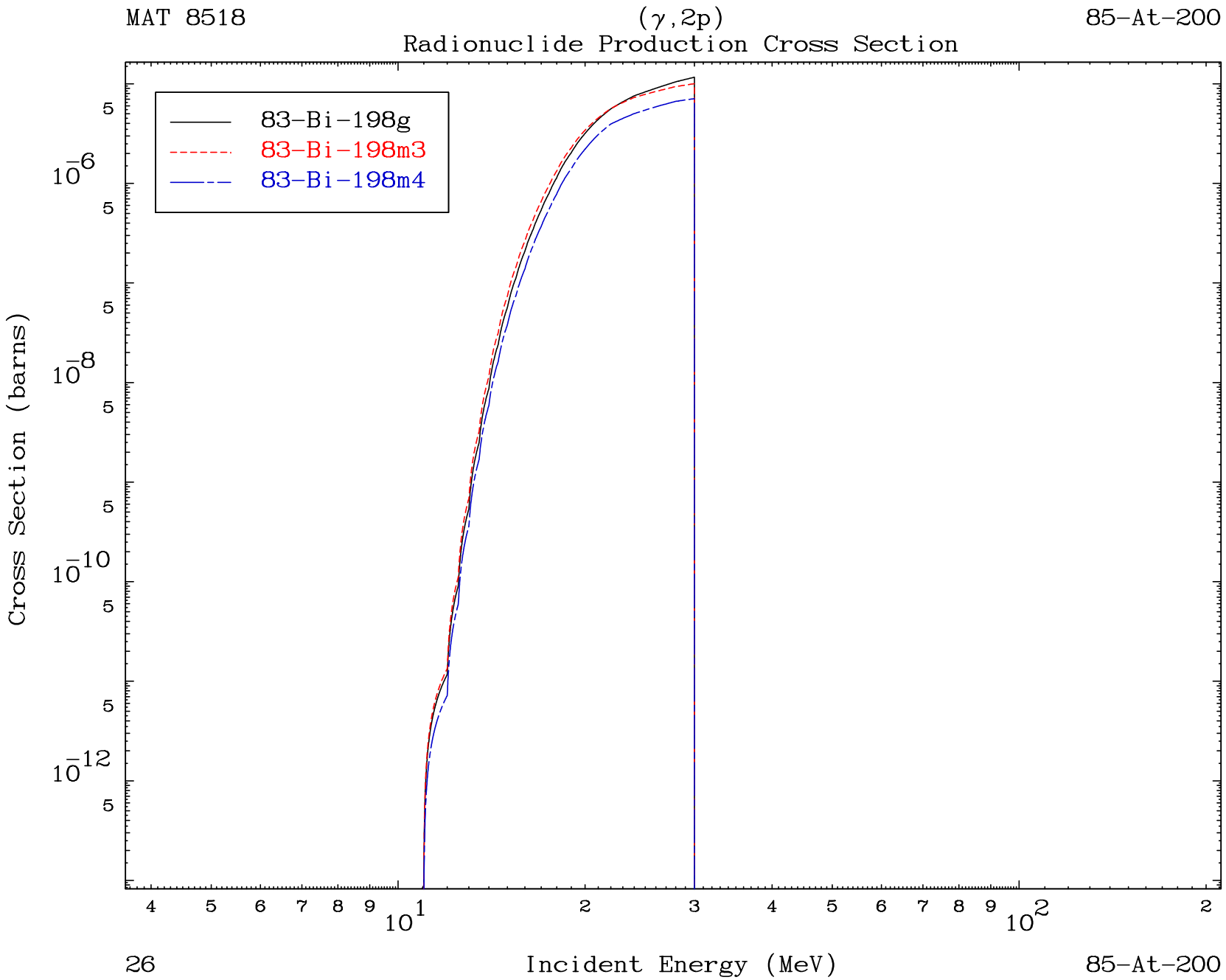

MAT 8518
(γ,p)
85-At-200
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
21
85-At-200

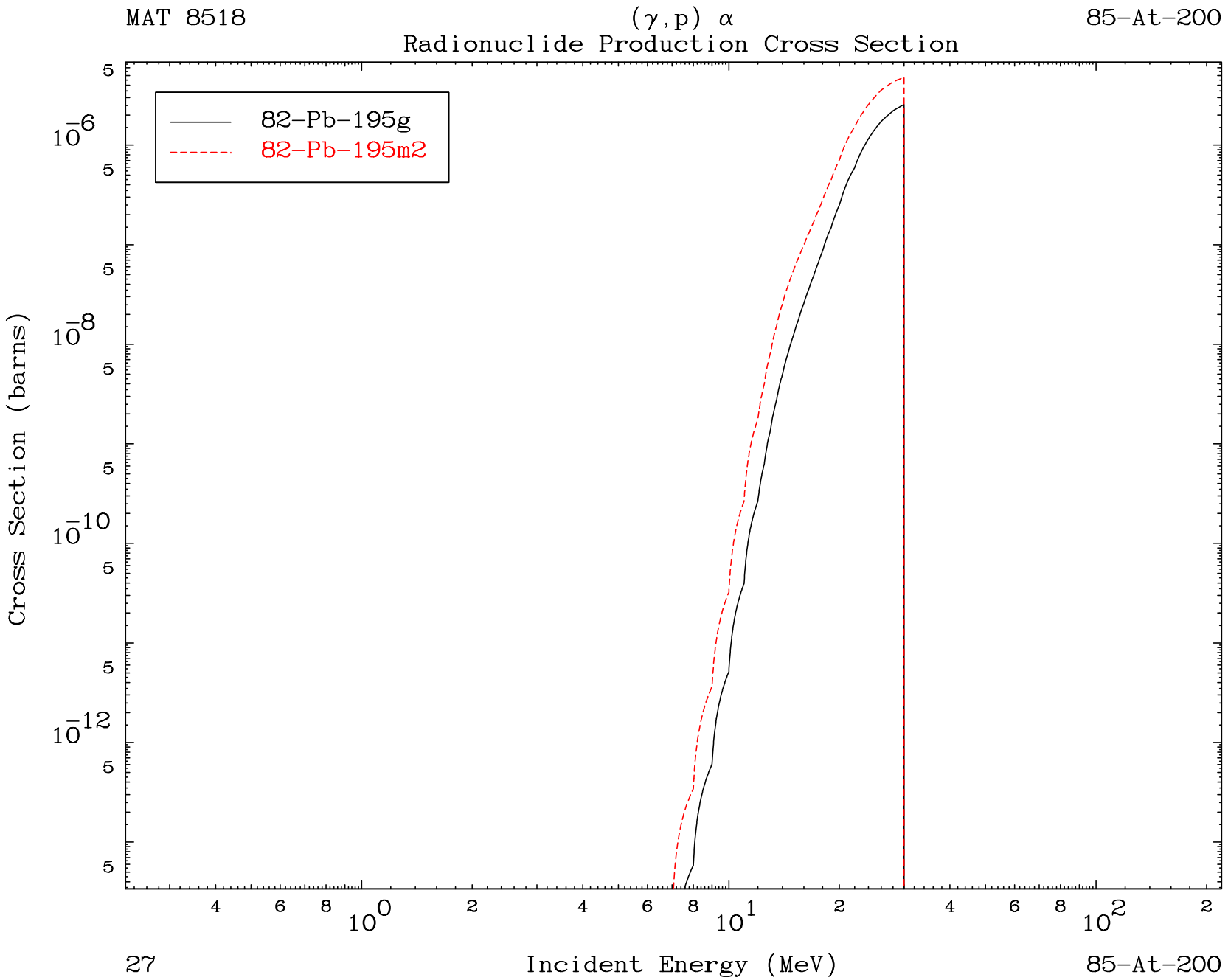

MAT 8518
(γ,t)
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
10^1
2
3
4
5
6
7
8
9
10^2
2
22
Incident Energy (MeV)
85-At-200

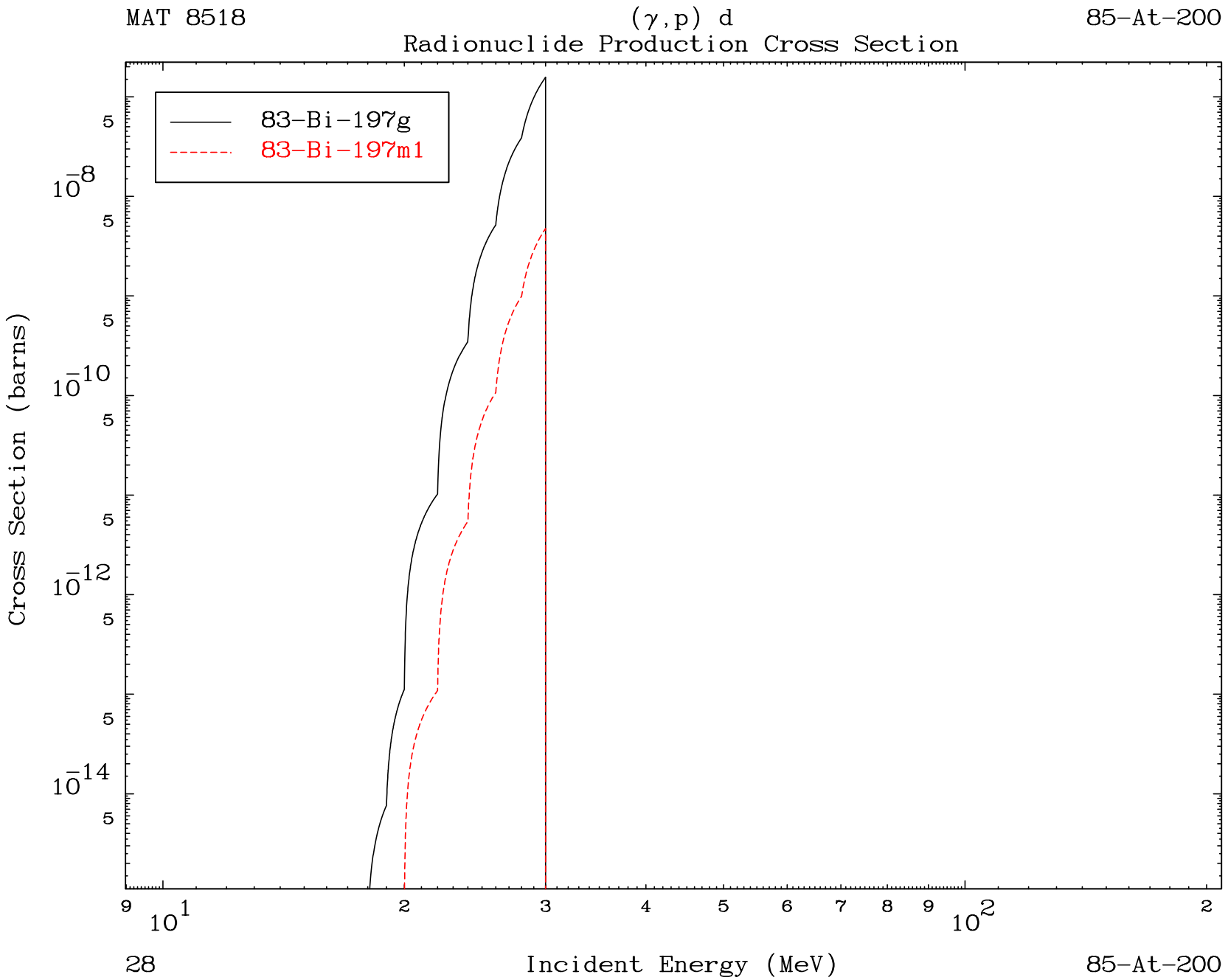

MAT 8518
(γ,He-3)
85-At-200
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
23
85-At-200


MAT 8518
(γ,α)
85-At-200
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
24
85-At-200


MAT 8518
(γ,2α)
85-At-200
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
10^0
10^1
10^2
Incident Energy (MeV)
25
85-At-200


MAT 8518
(γ,2p)
85-At-200
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
10-6
10-8
10-10
10-12
5
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
26
Incident Energy (MeV)
85-At-200


MAT 8518
(γ,p) α
85-At-200
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
10-6
10-8
10-10
10-12
100
101
102
Incident Energy (MeV)
27
85-At-200


MAT 8518
(γ,p) d
85-At-200
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
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
28
Incident Energy (MeV)
85-At-200