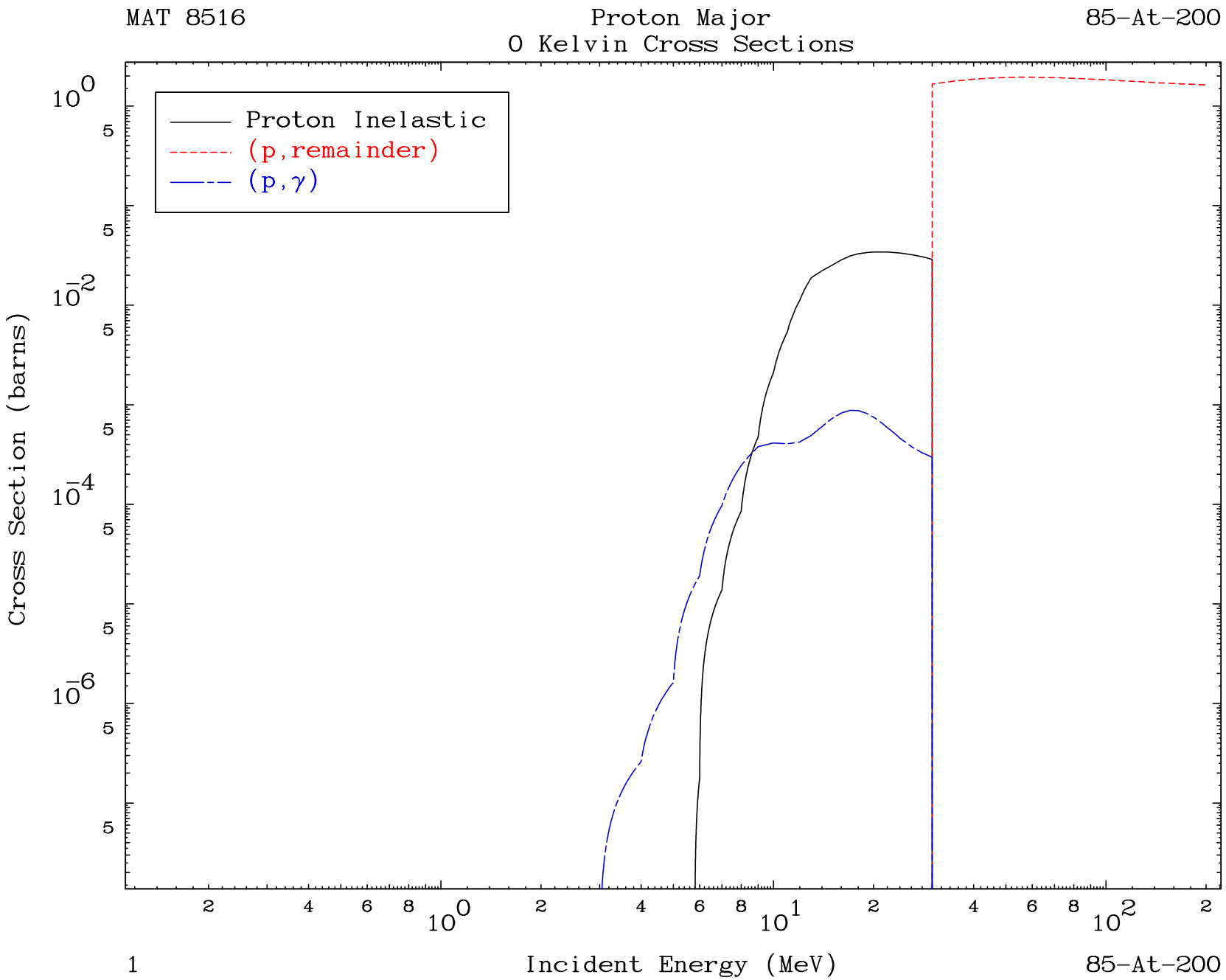
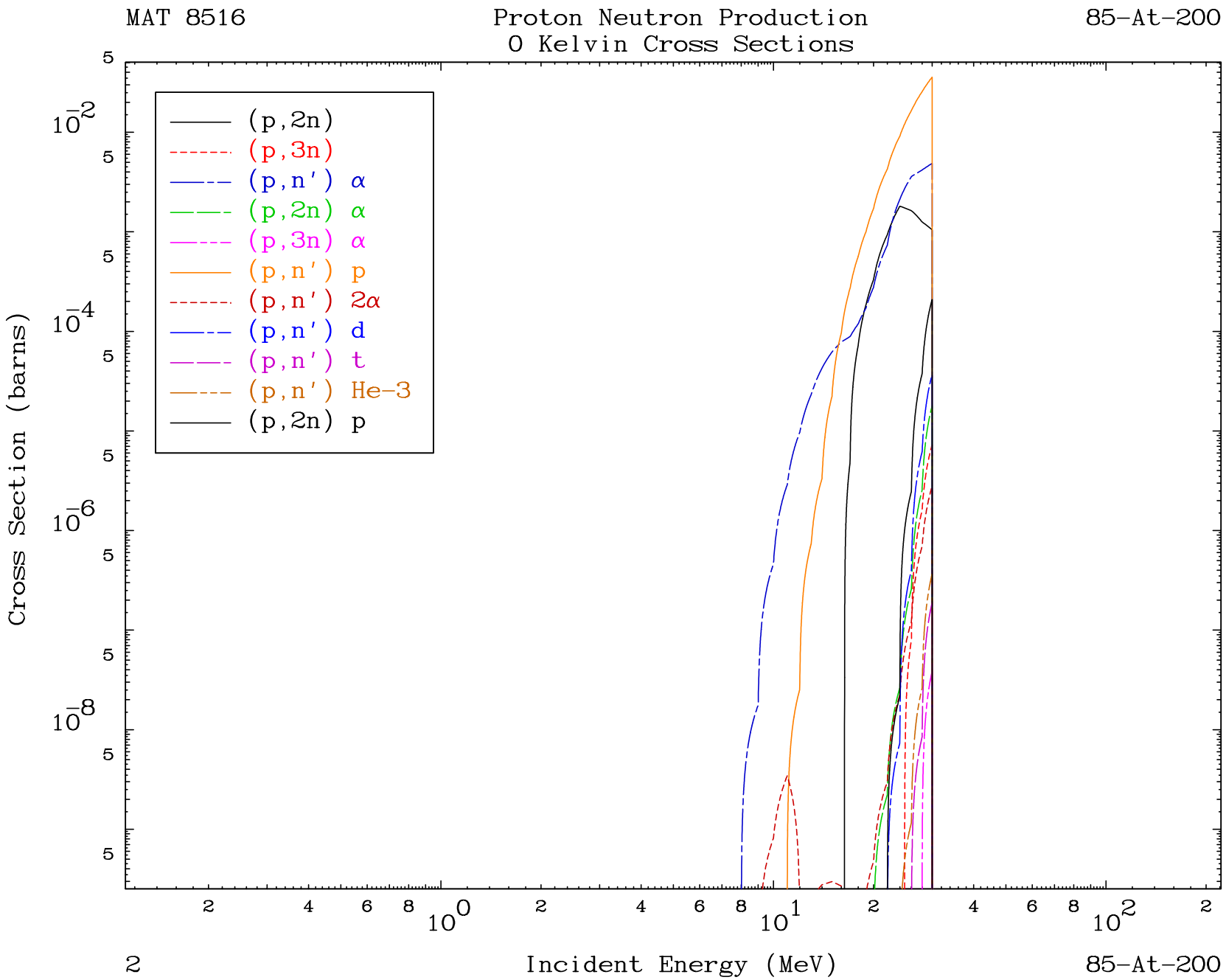
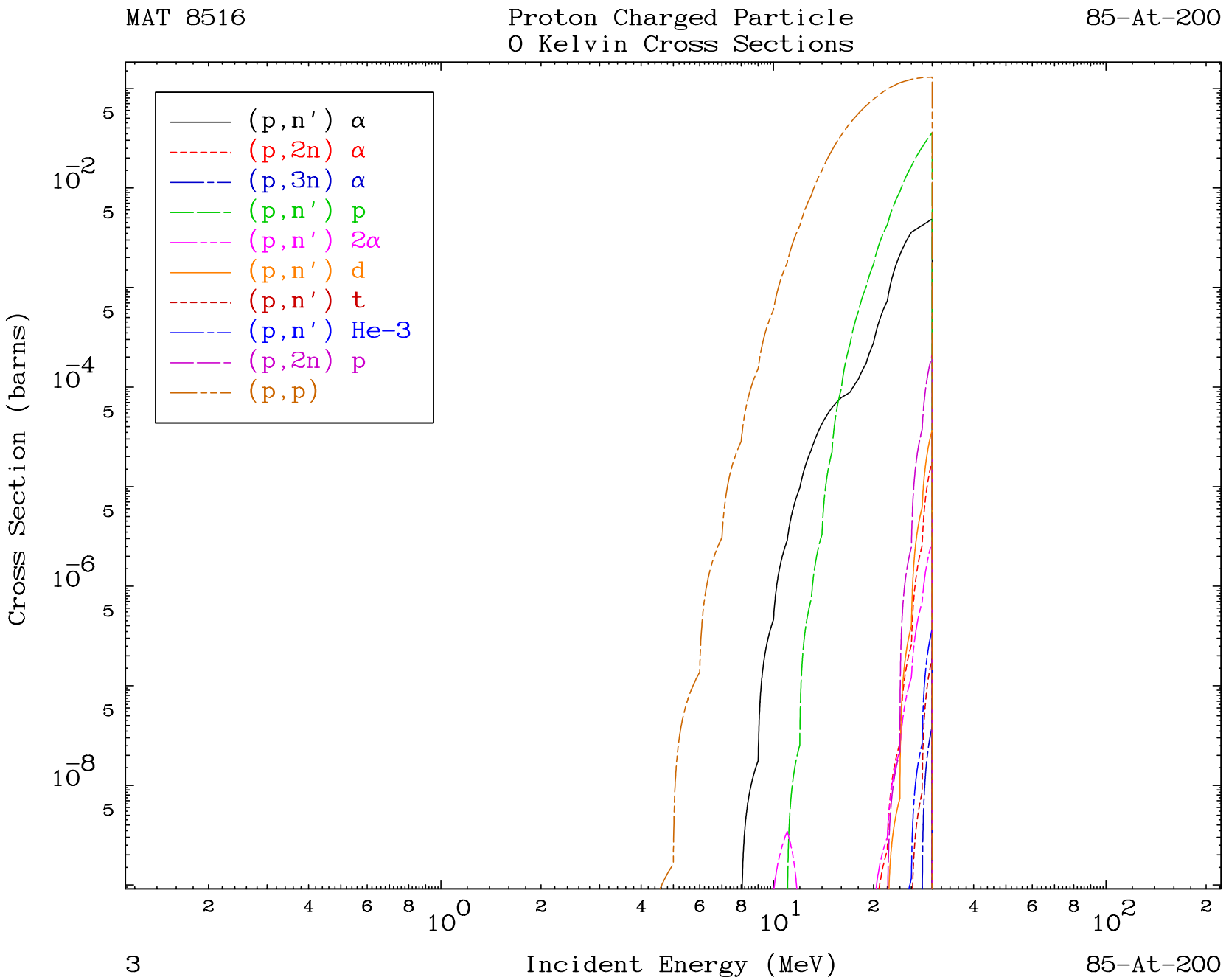
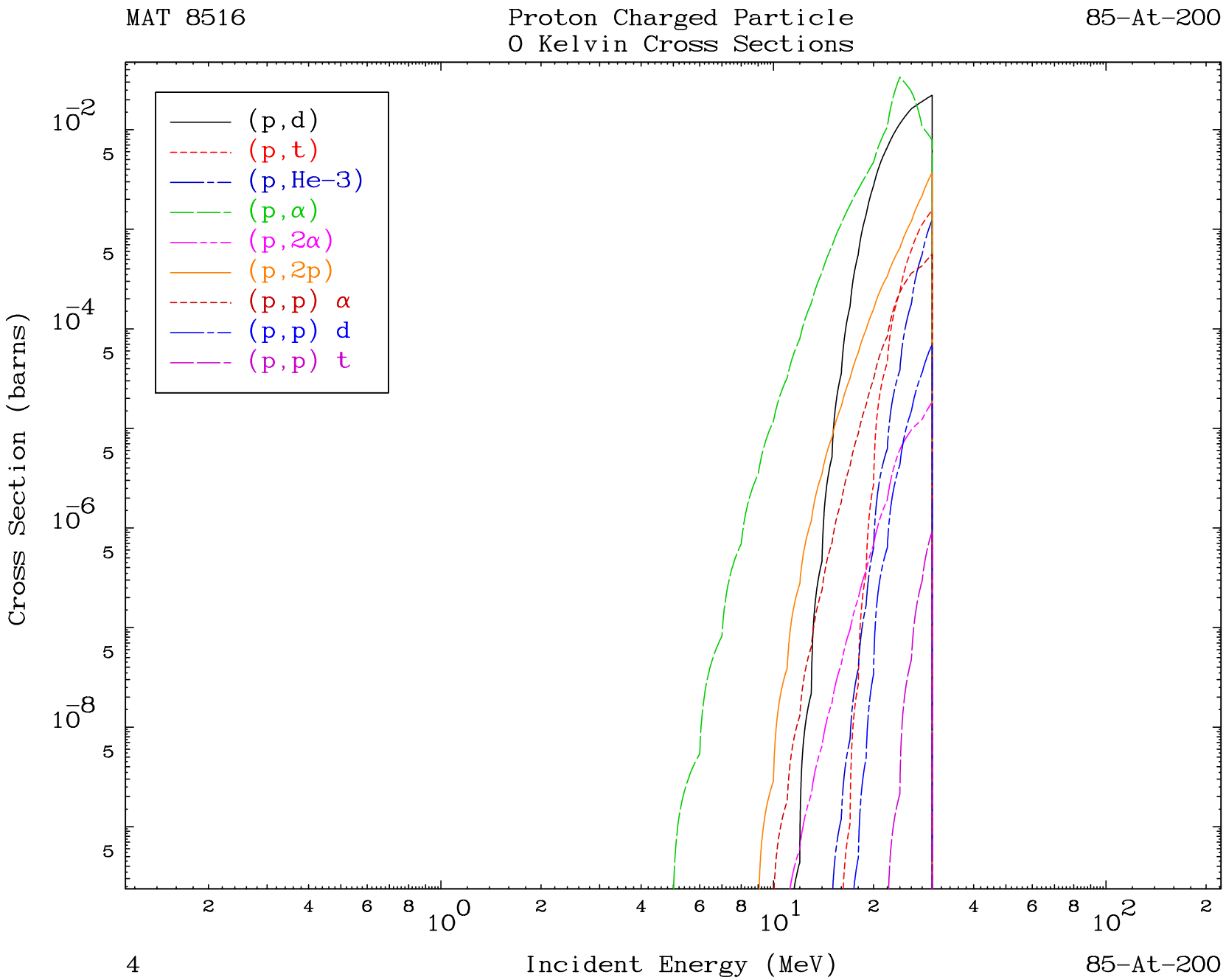
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

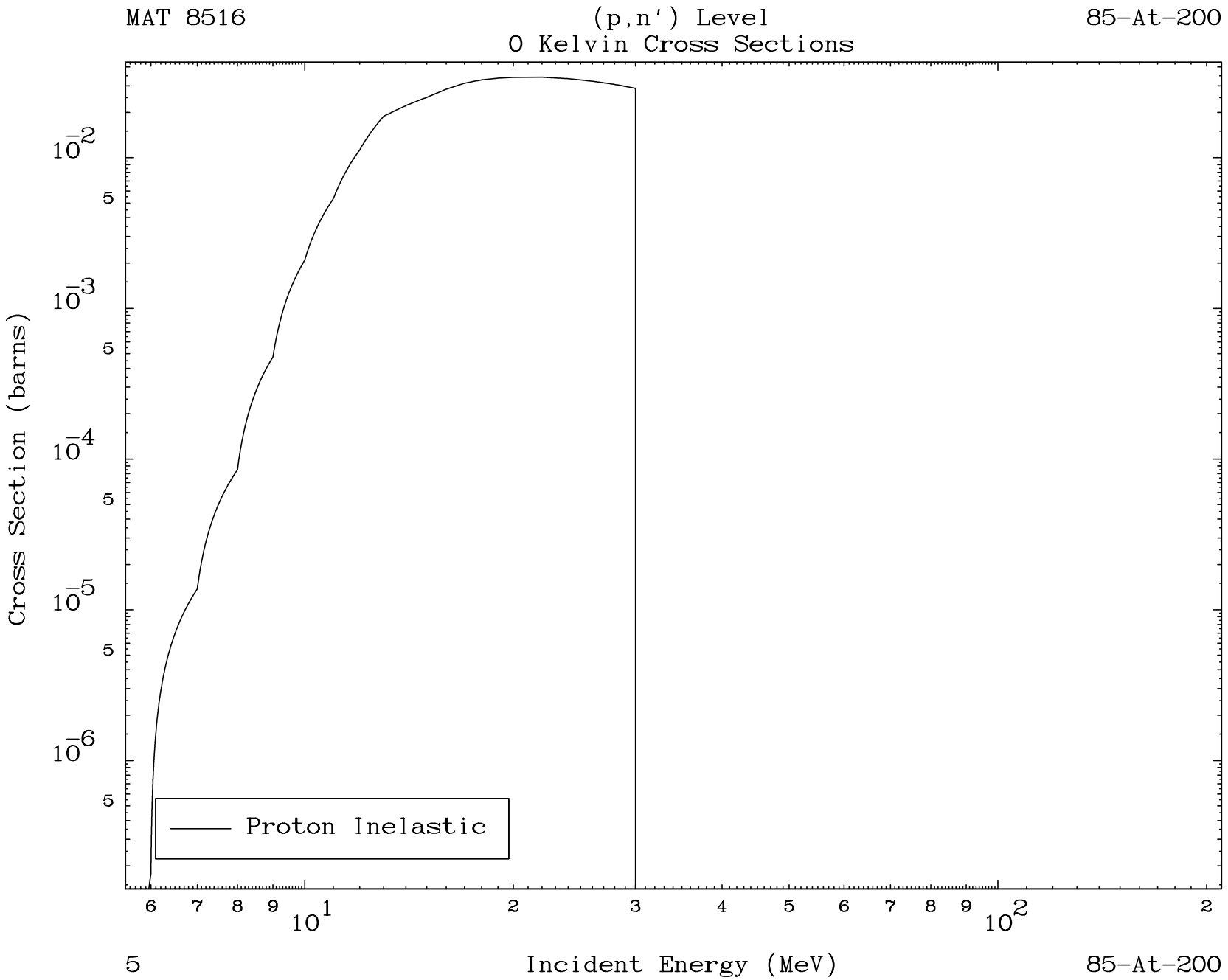
Press Mouse Button to Start

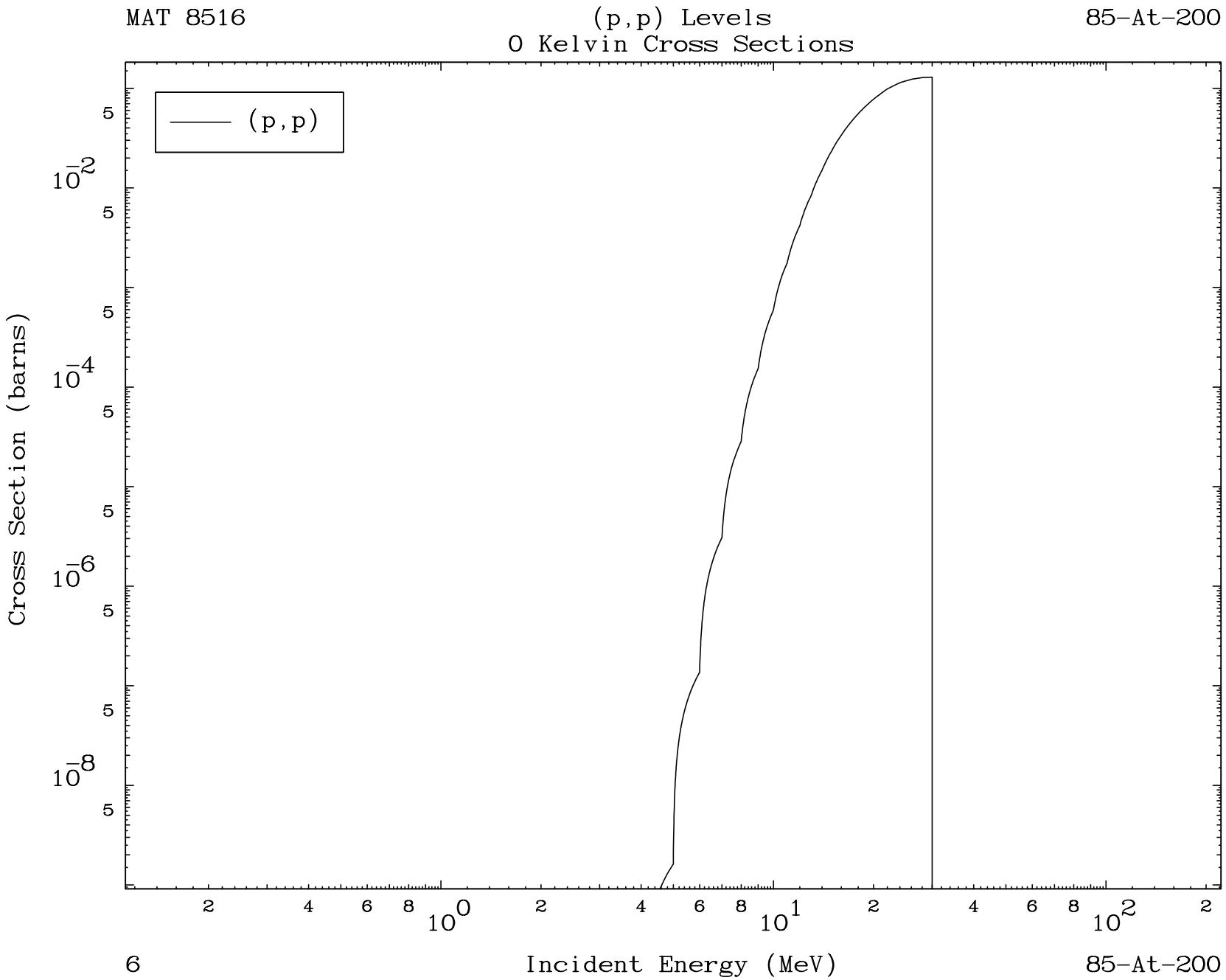

MAT 8516
Proton Major
85-At-200
0 Kelvin Cross Sections
Proton Inelastic
(p,remainder)
(p,γ)
Cross Section (barns)
Incident Energy (MeV)
85-At-200
1

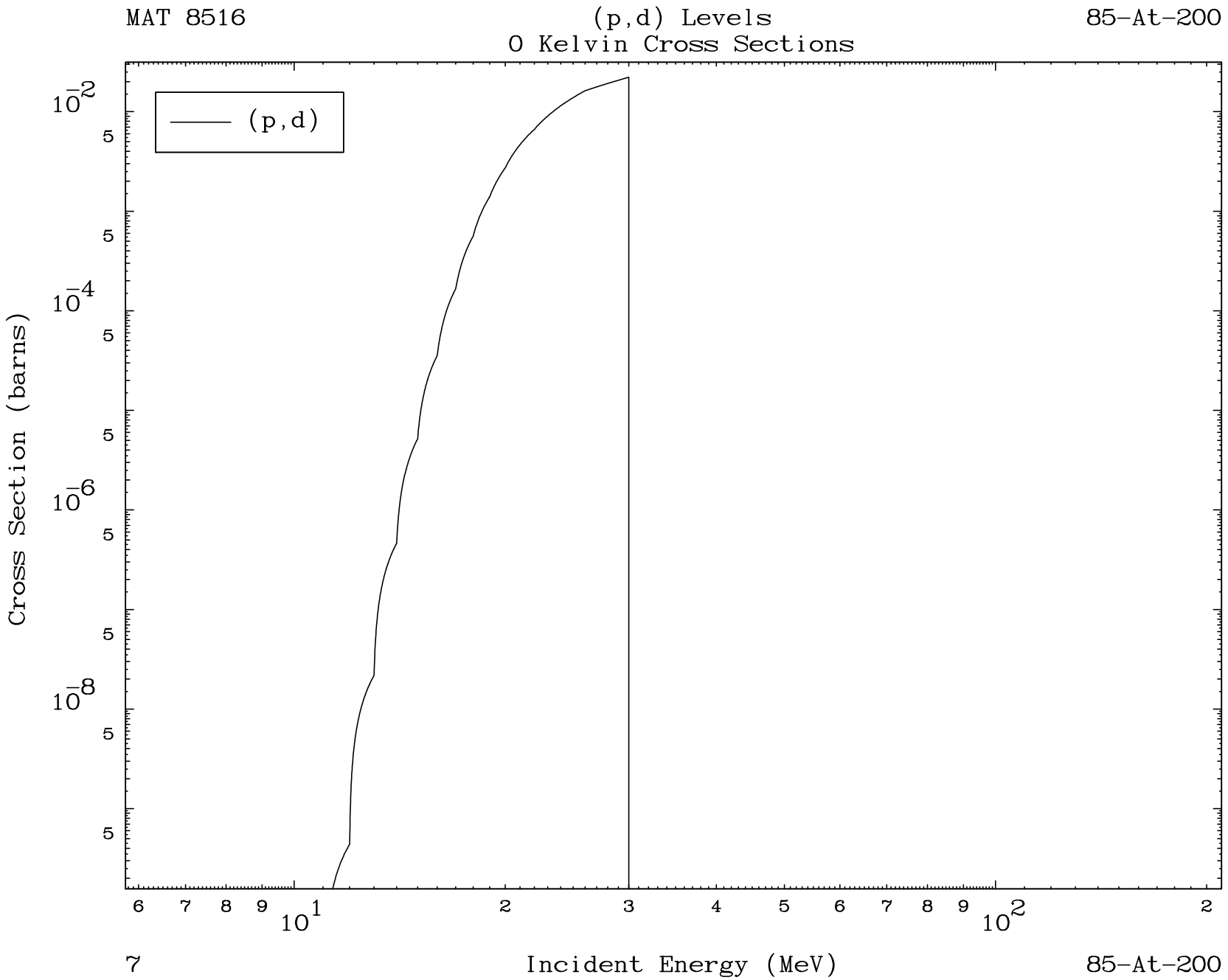

MAT 8516
Proton Neutron Production
0 Kelvin Cross Sections
85-At-200
(p,2n)
(p,3n)
(p,n') α
(p,2n) α
(p,3n) α
(p,n') p
(p,n') 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,2n) p
Cross Section (barns)
Incident Energy (MeV)
85-At-200

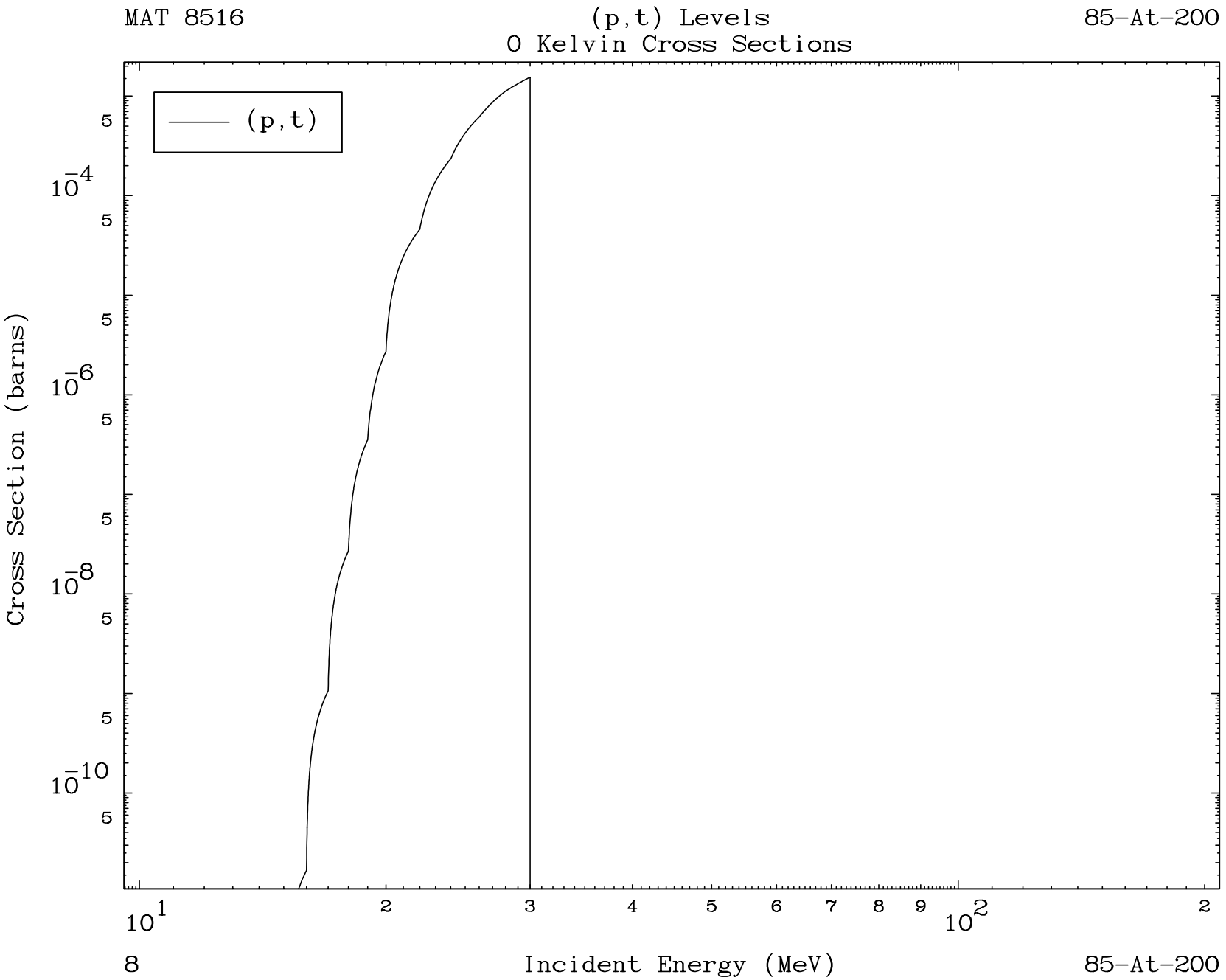

MAT 8516
Proton Charged Particle
0 Kelvin Cross Sections
85-At-200
(p,n') α
(p,2n) α
(p,3n) α
(p,n') p
(p,n') 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,2n) p
(p,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
3
85-At-200

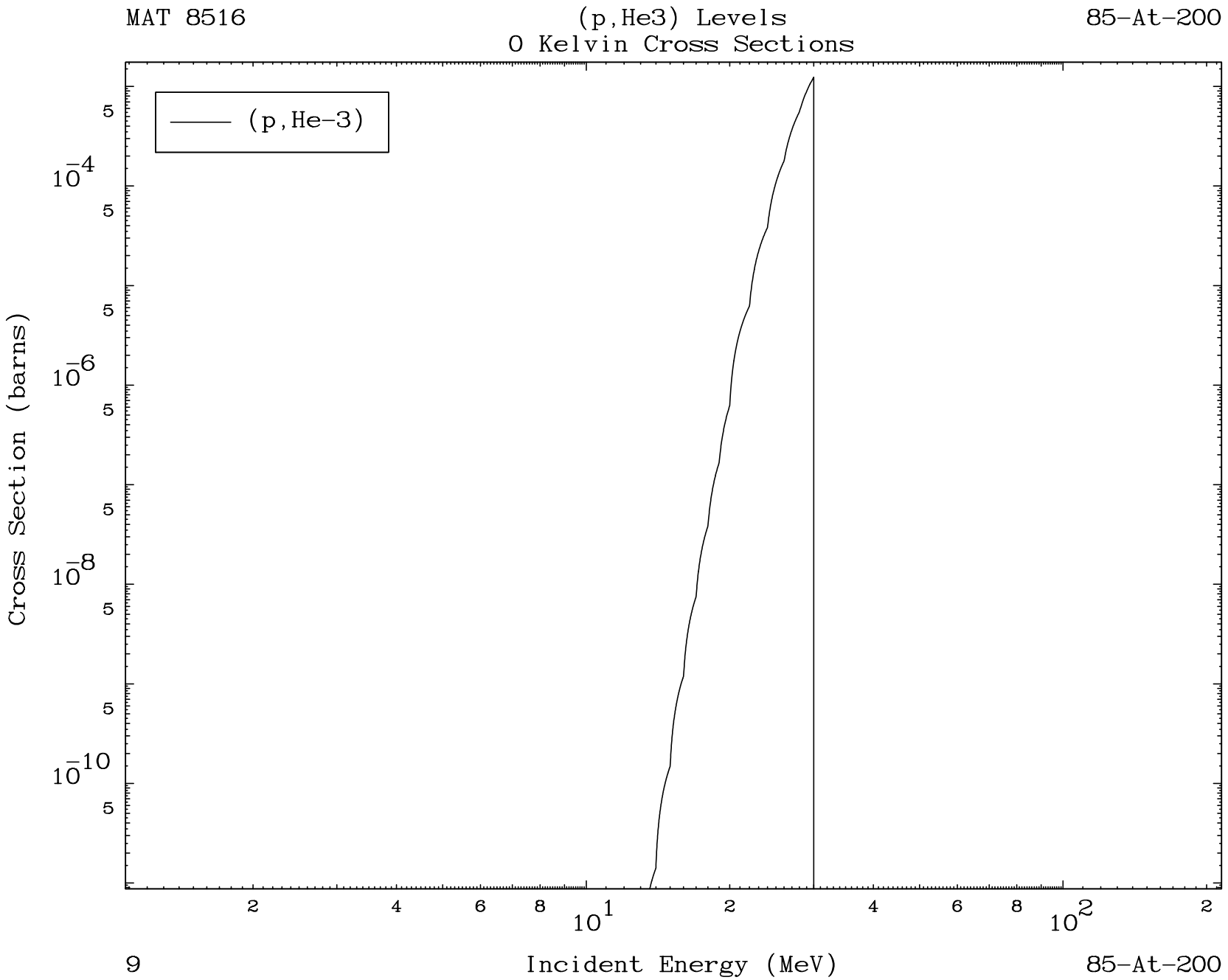

MAT 8516
Proton Charged Particle
0 Kelvin Cross Sections
85-At-200
(p,d)
(p,t)
(p,He-3)
(p,α)
(p,2α)
(p,2p)
(p,p) α
(p,p) d
(p,p) t
Cross Section (barns)
Incident Energy (MeV)
4
85-At-200

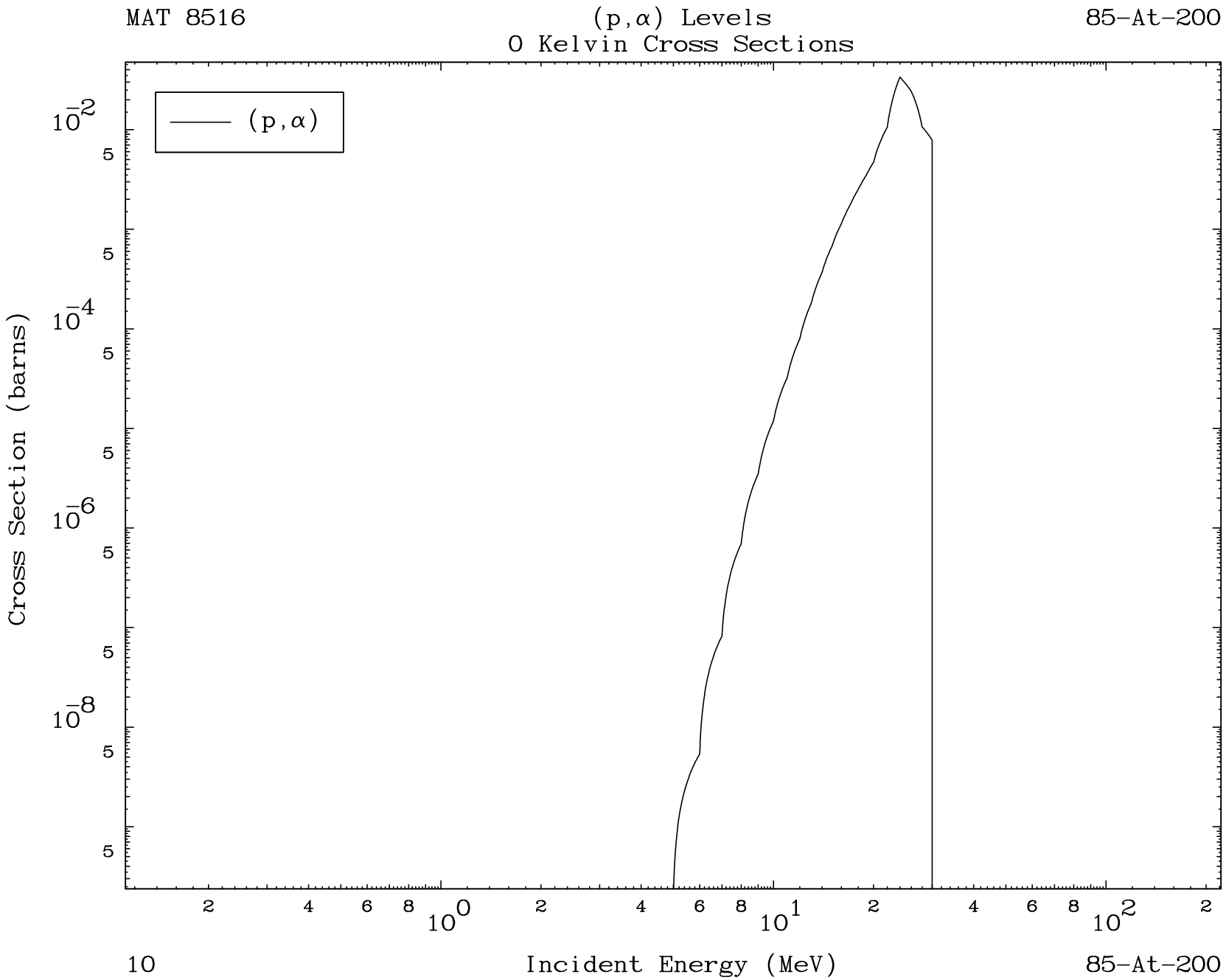

MAT 8516
(p,n') Level
85-At-200
0 Kelvin Cross Sections
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
5
Proton Inelastic
6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
5
Incident Energy (MeV)
85-At-200

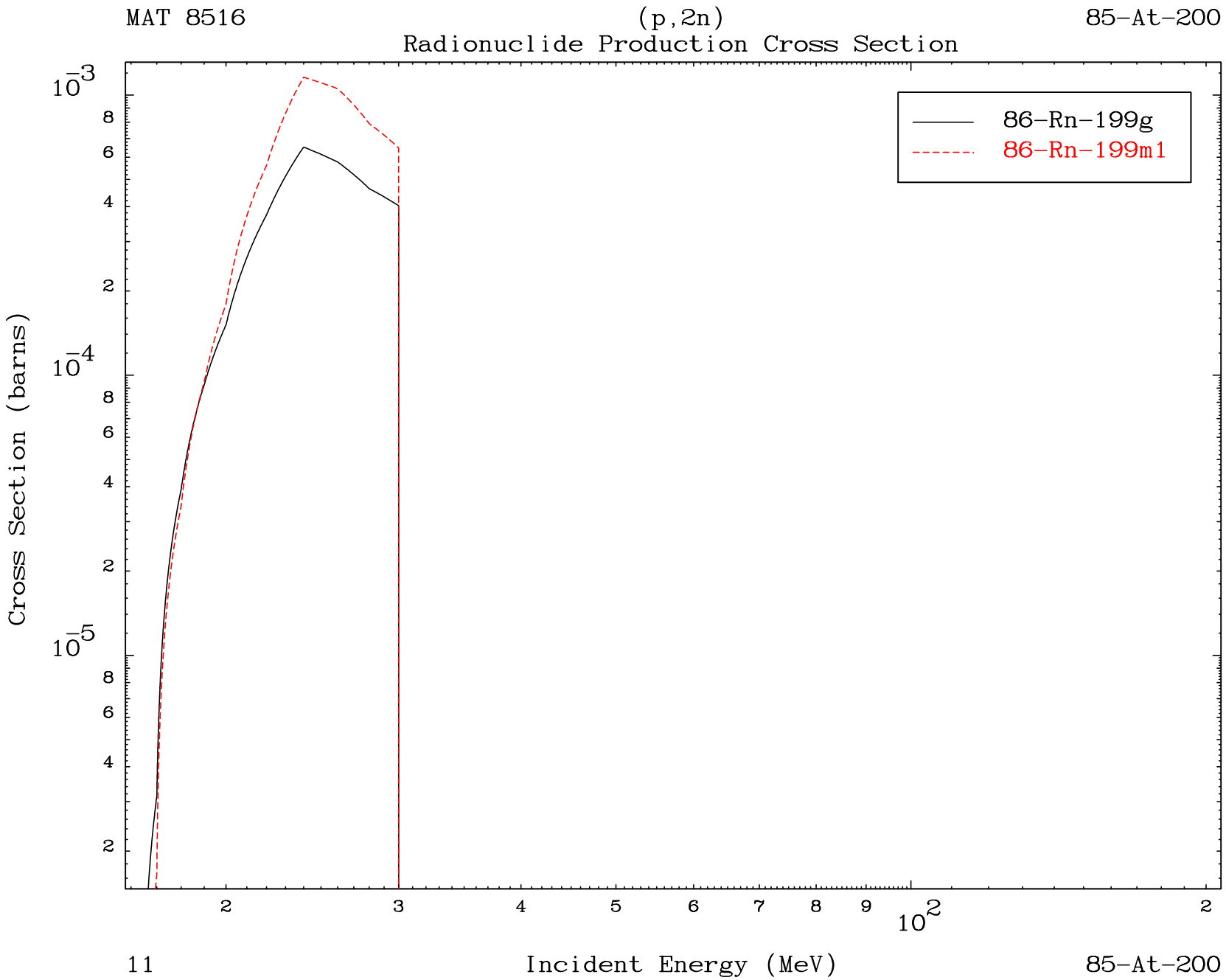

MAT 8516
(p,p) Levels
85-At-200
0 Kelvin Cross Sections
(p,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)
6
85-At-200

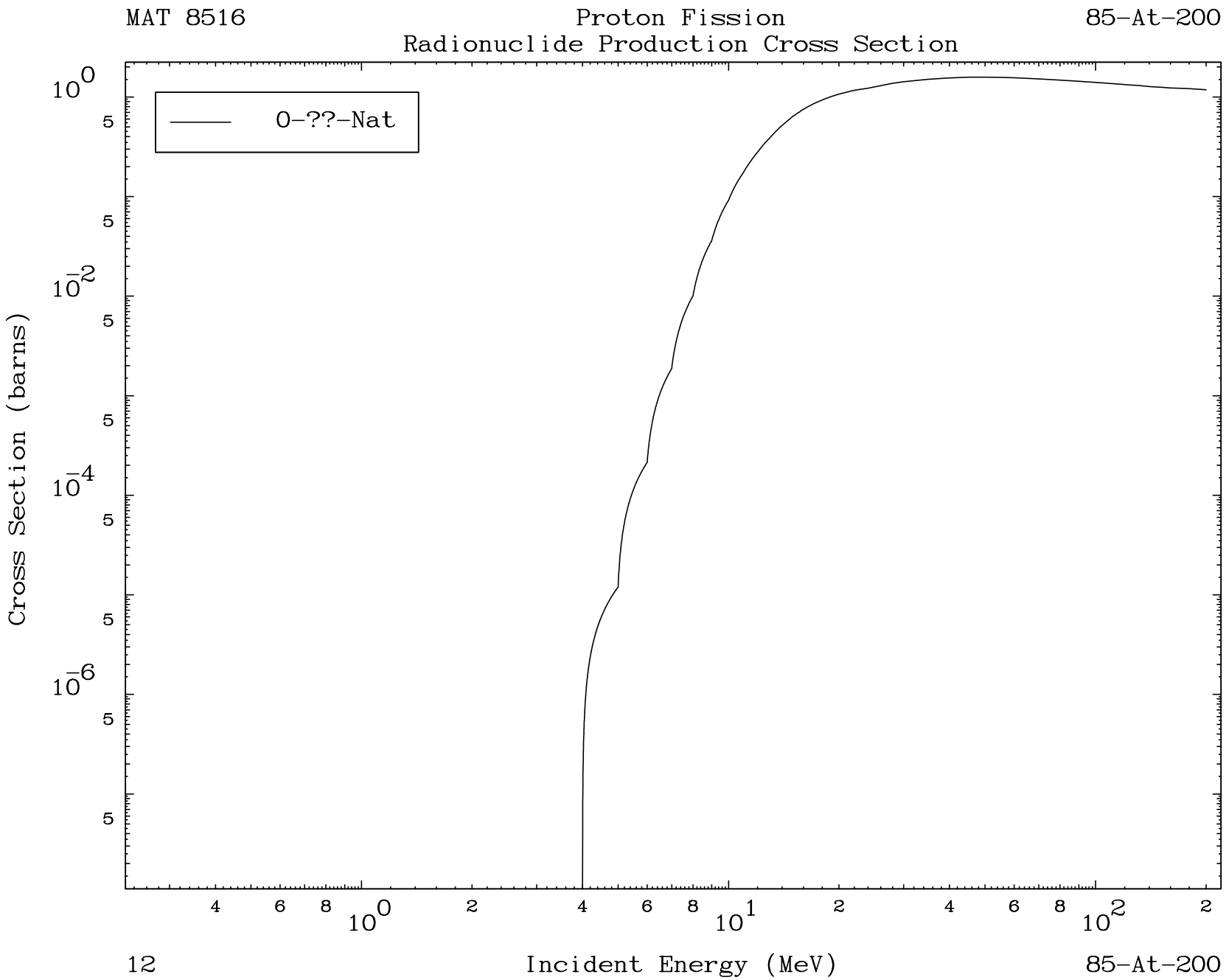

MAT 8516
(p,d) Levels
85-At-200
0 Kelvin Cross Sections
(p,d)
Cross Section (barns)
Incident Energy (MeV)
7
85-At-200

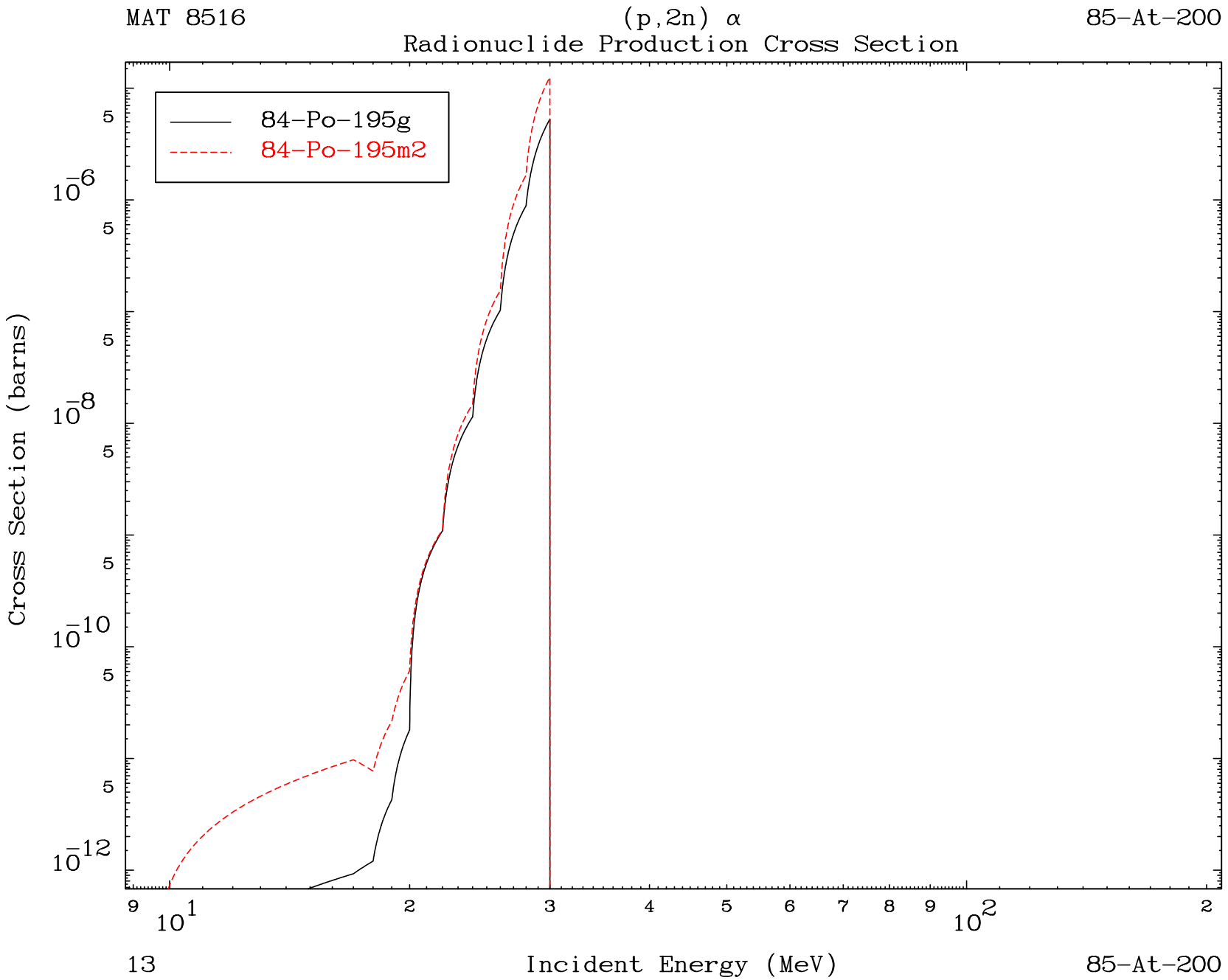

MAT 8516
(p,t) Levels
85-At-200
0 Kelvin Cross Sections
(p,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
8
85-At-200

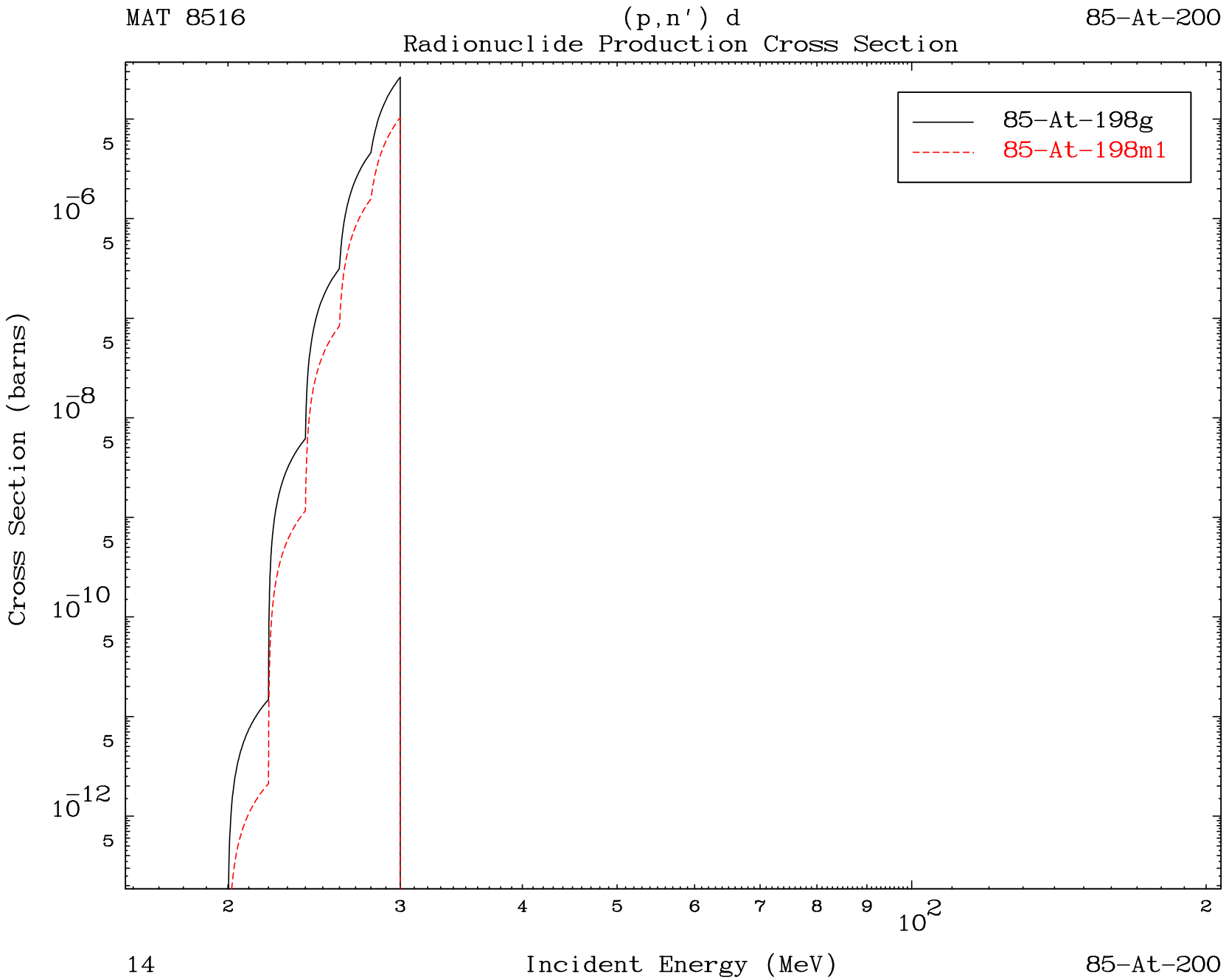

MAT 8516
(p,He3) Levels
85-At-200
0 Kelvin Cross Sections
(p,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
4
6
8
10^1
10^2
Incident Energy (MeV)
9
85-At-200

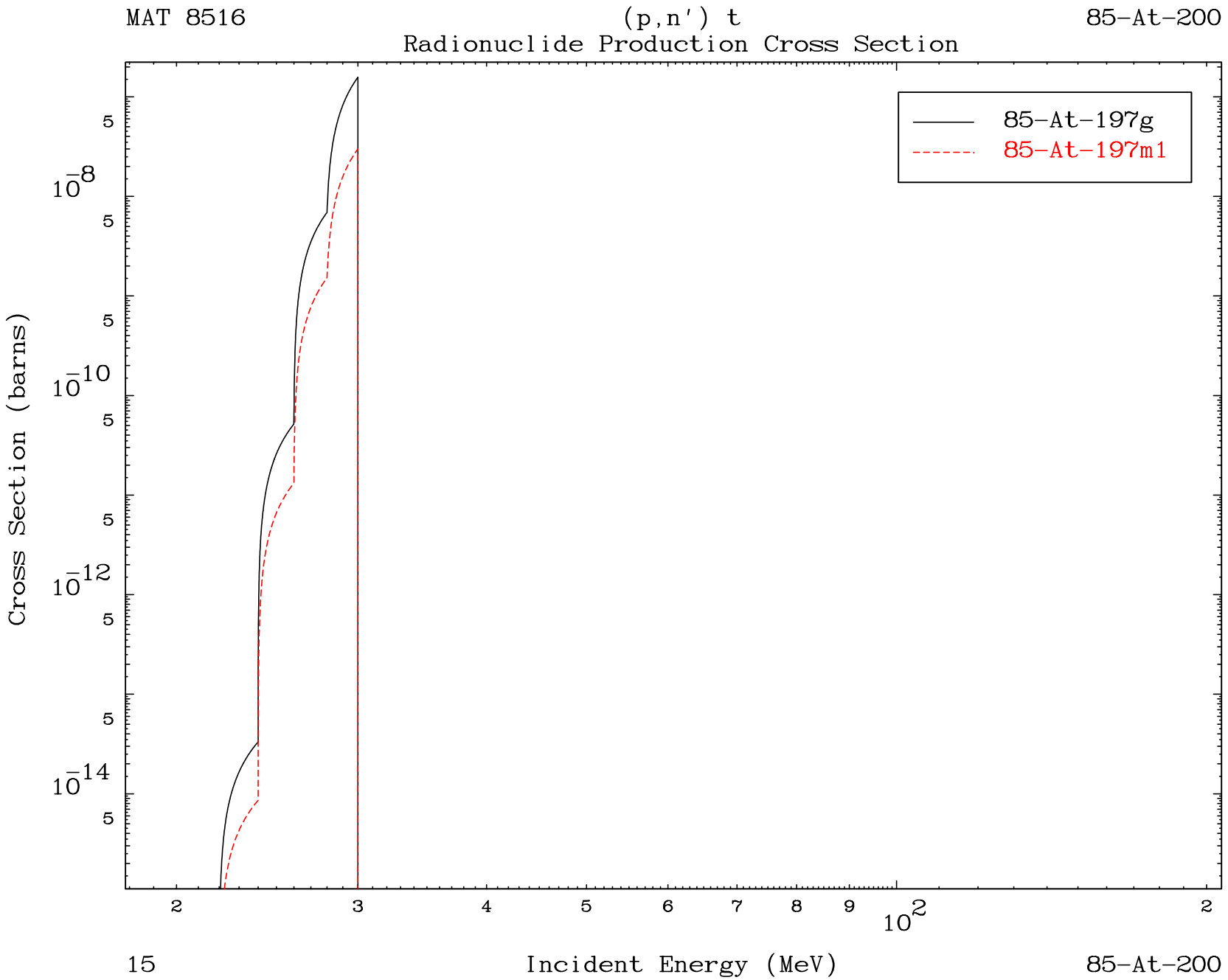

MAT 8516
(p,α) Levels
85-At-200
0 Kelvin Cross Sections
(p,α)
Cross Section (barns)
Incident Energy (MeV)
85-At-200

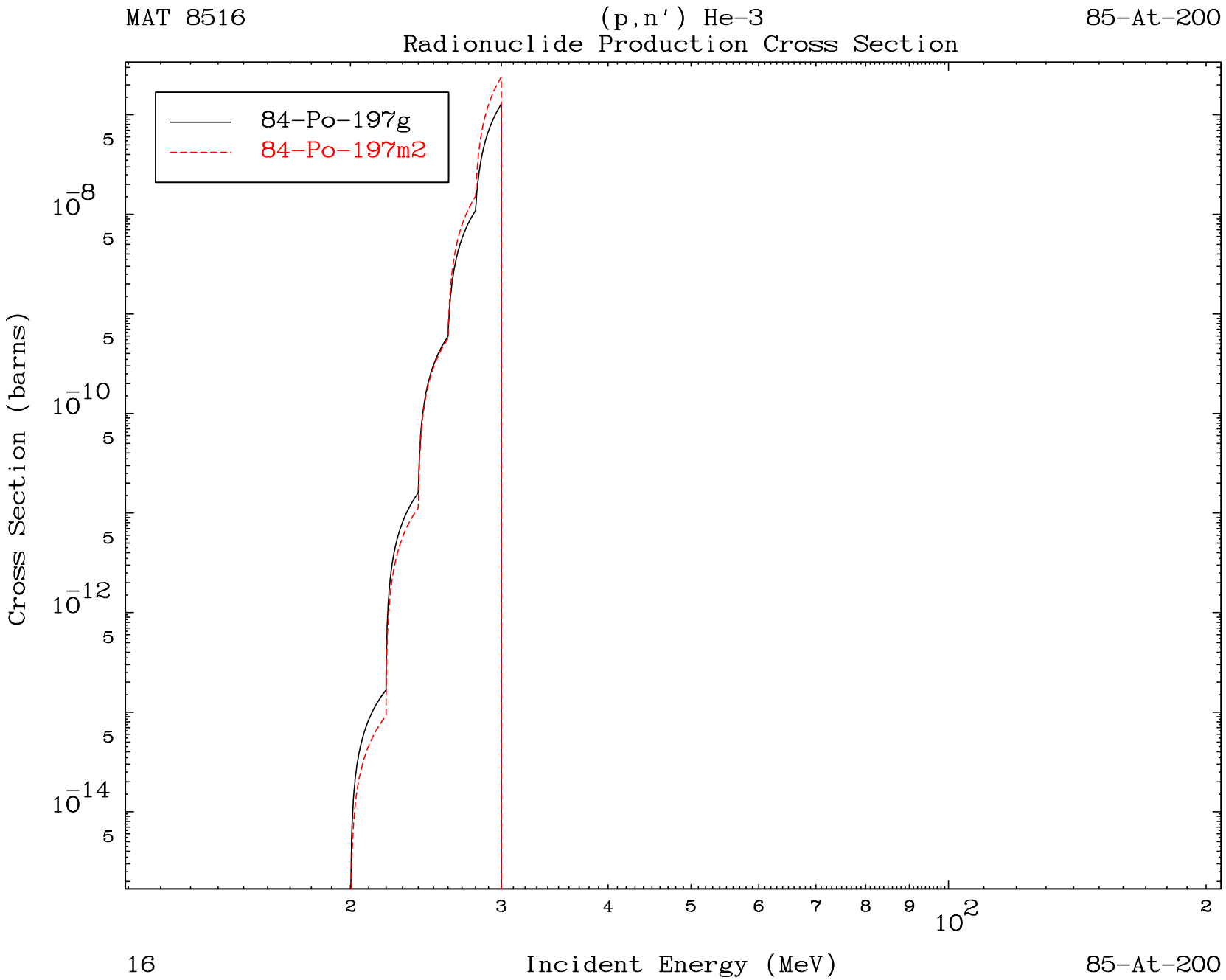

MAT 8516
(p,2n)
85-At-200
Radionuclide Production Cross Section
86-Rn-199g
86-Rn-199m1
Cross Section (barns)
Incident Energy (MeV)
11
85-At-200

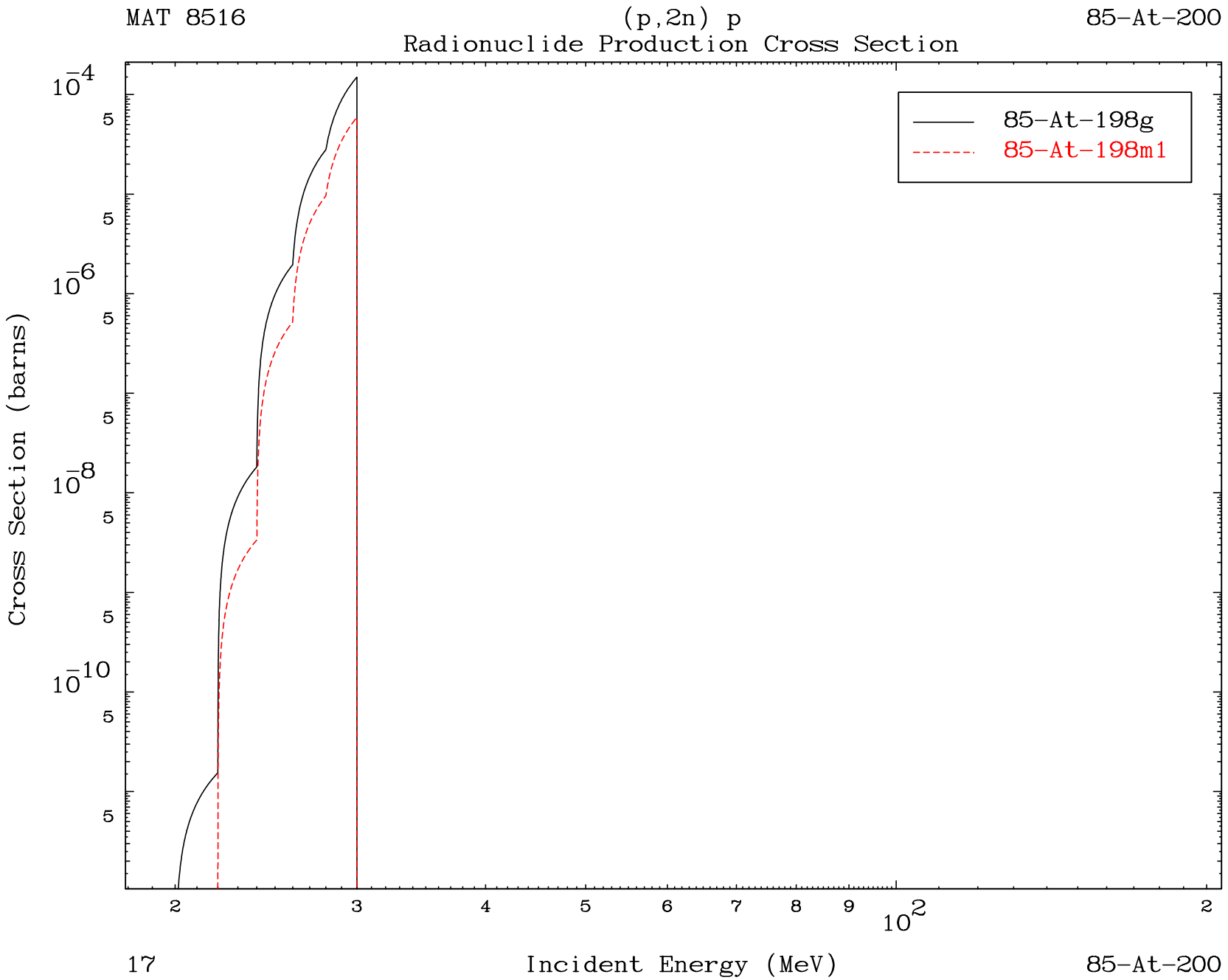

MAT 8516
Proton Fission
85-At-200
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
12
85-At-200

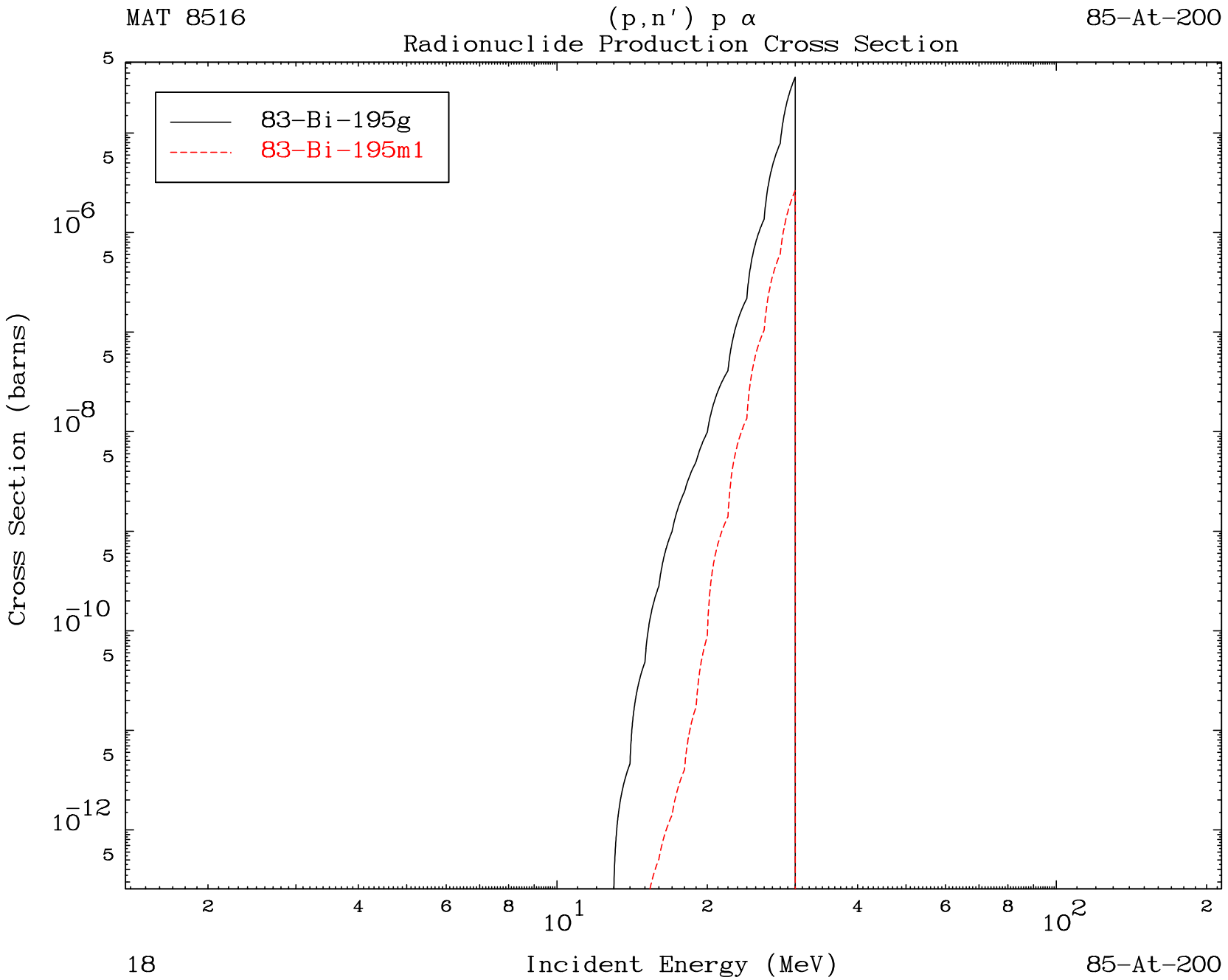

MAT 8516
(p,2n) α
85-At-200
Radionuclide Production Cross Section
84-Po-195g
84-Po-195m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
85-At-200

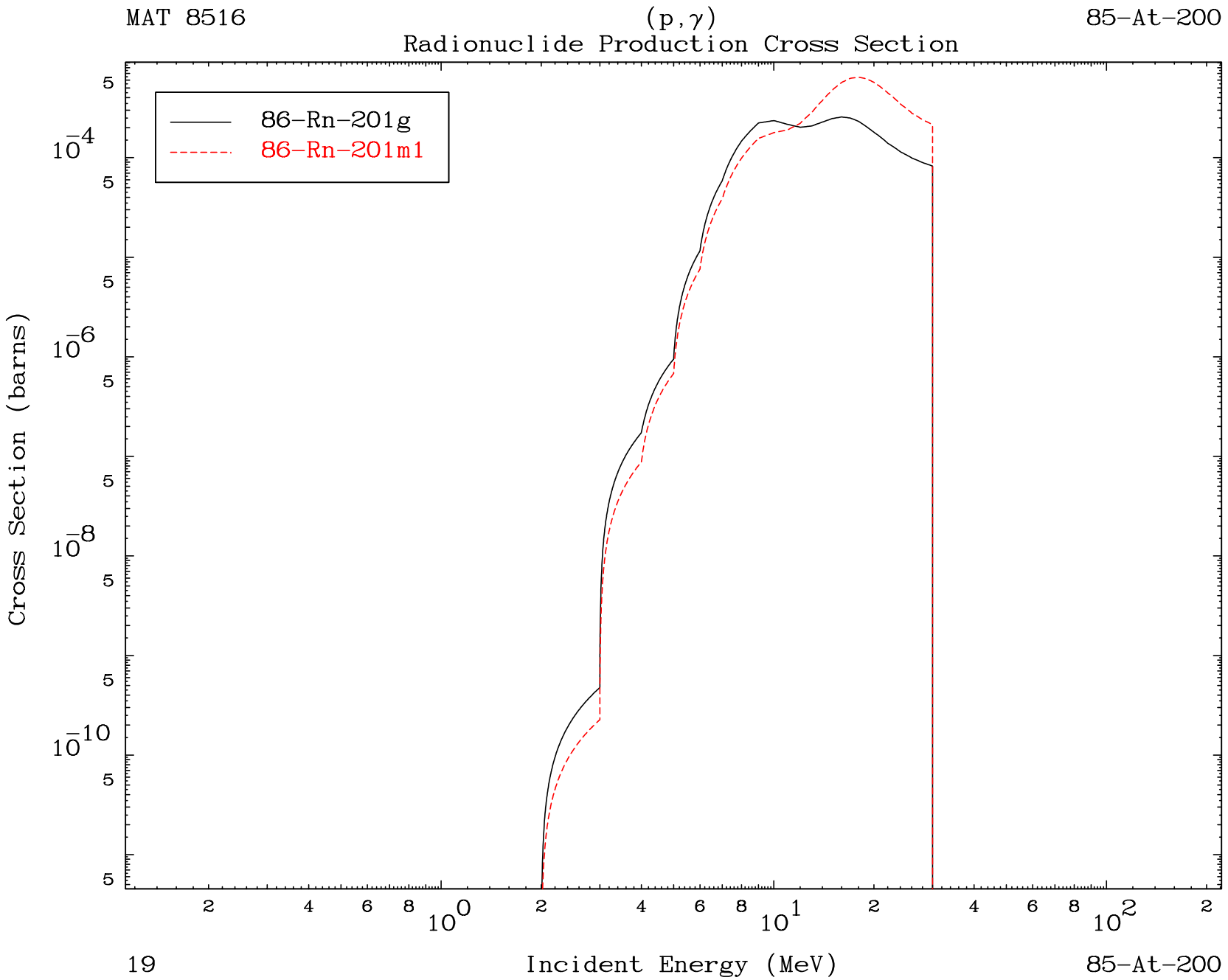

MAT 8516
(p,n') d
85-At-200
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
14
Incident Energy (MeV)
85-At-200

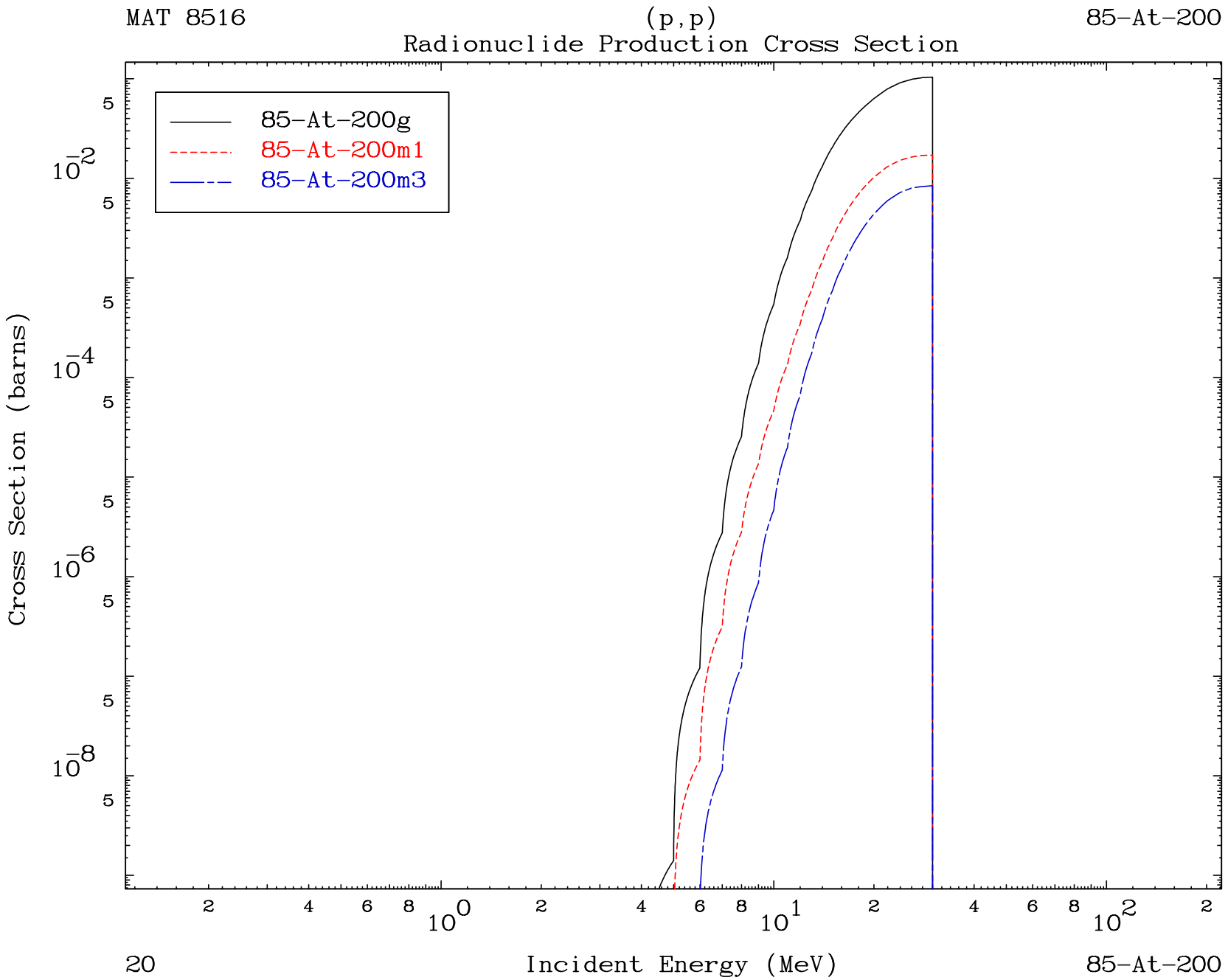

MAT 8516
(p,n') t
85-At-200
Radionuclide Production Cross Section
85-At-197g
85-At-197m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
85-At-200

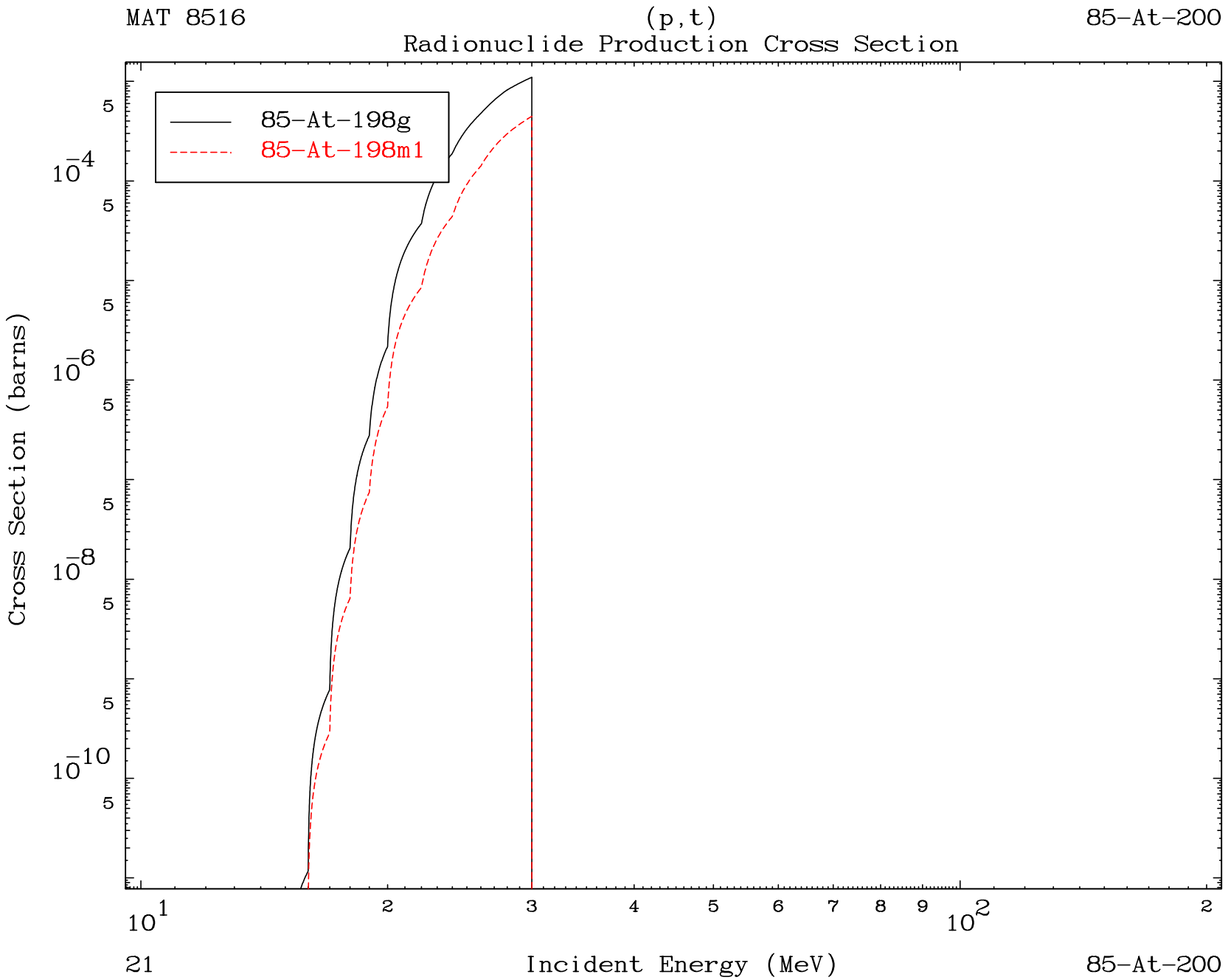

MAT 8516
(p,n') He-3
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
85-At-200

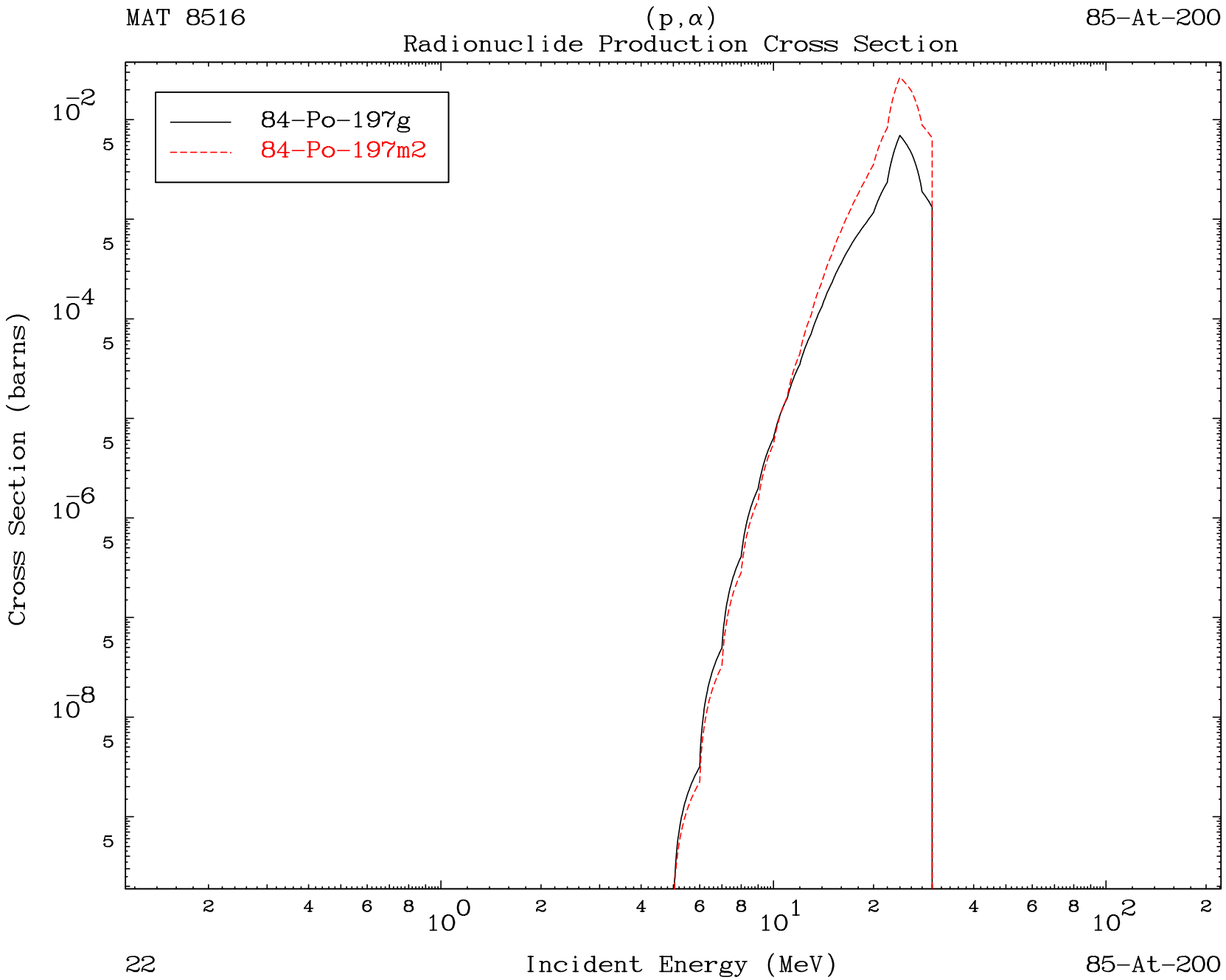

MAT 8516
(p,2n) p
85-At-200
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
17
85-At-200

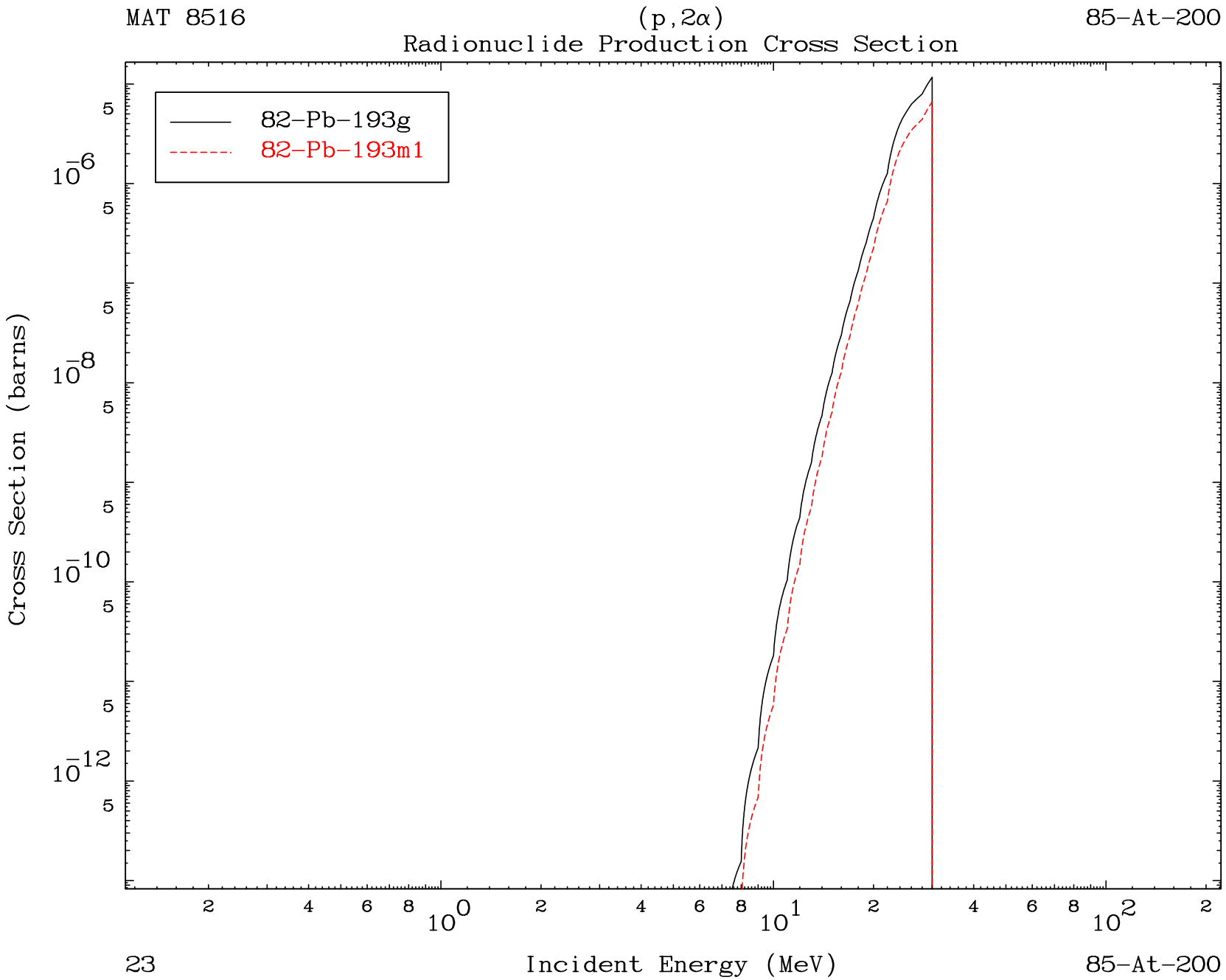

MAT 8516
(p,n') p α
85-At-200
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
Incident Energy (MeV)
18
85-At-200

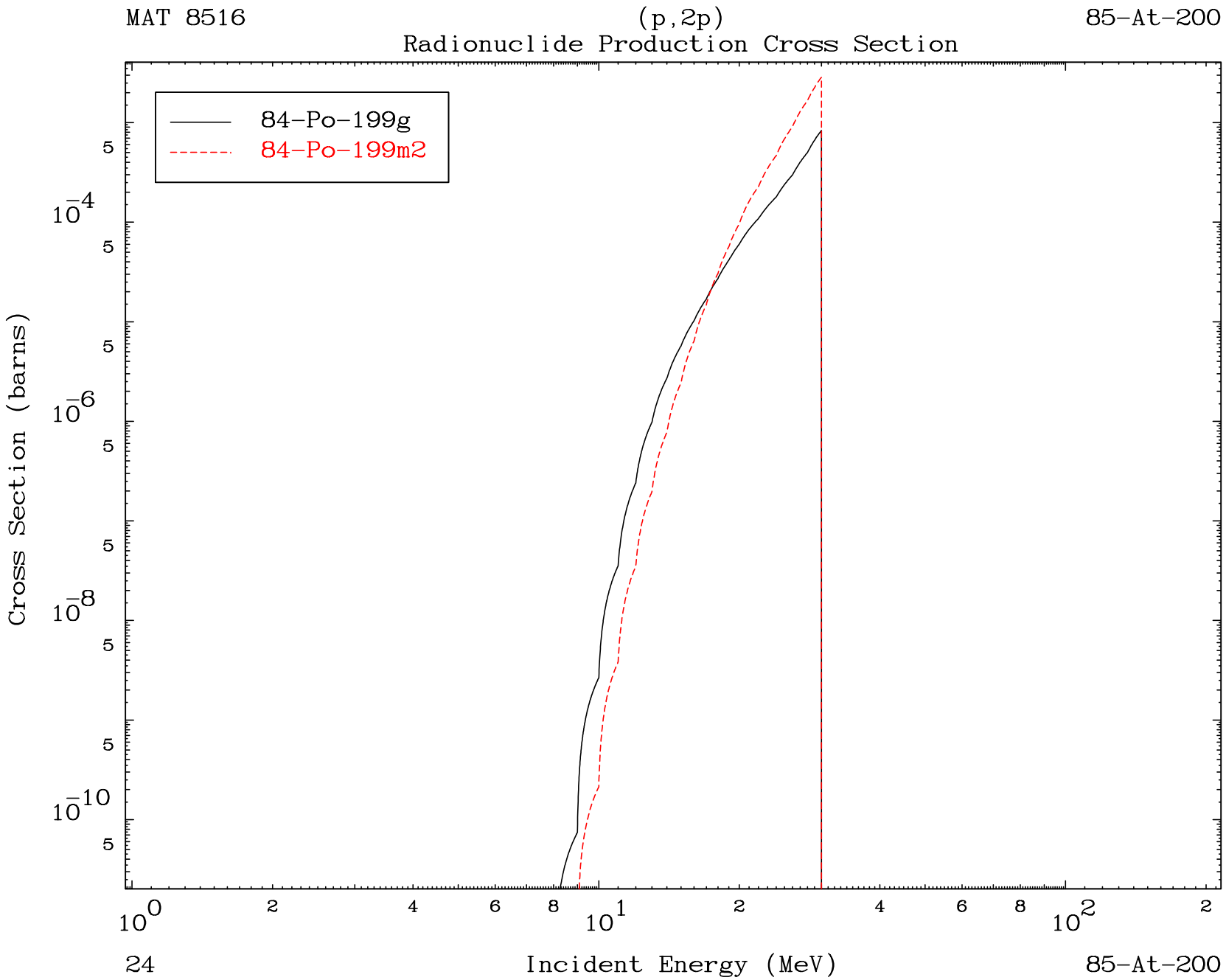

MAT 8516
(p,γ)
85-At-200
Radionuclide Production Cross Section
86-Rn-201g
86-Rn-201m1
Cross Section (barns)
Incident Energy (MeV)
19
85-At-200

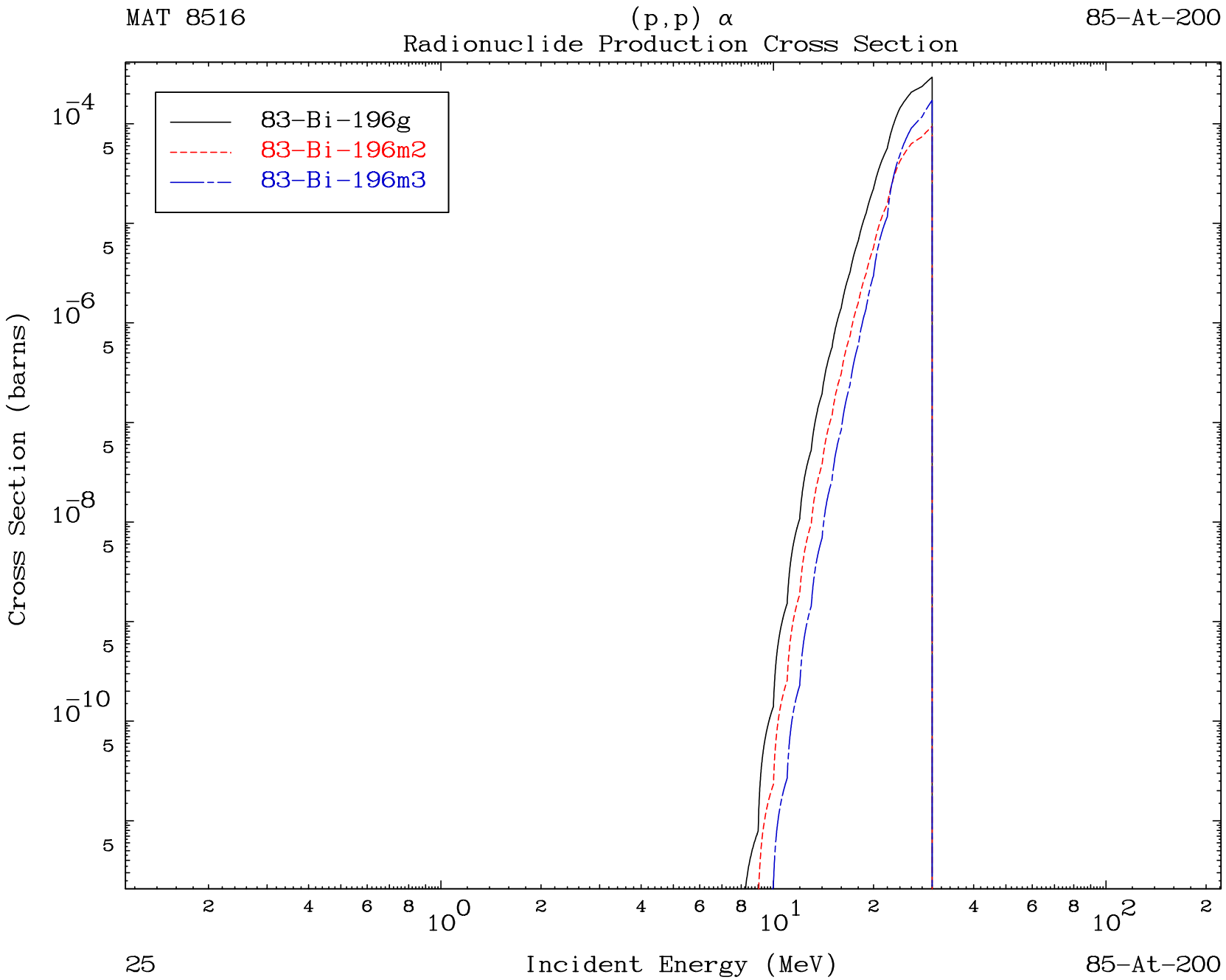

MAT 8516
(p,p)
85-At-200
Radionuclide Production Cross Section
85-At-200g
85-At-200m1
85-At-200m3
Cross Section (barns)
Incident Energy (MeV)
20
85-At-200

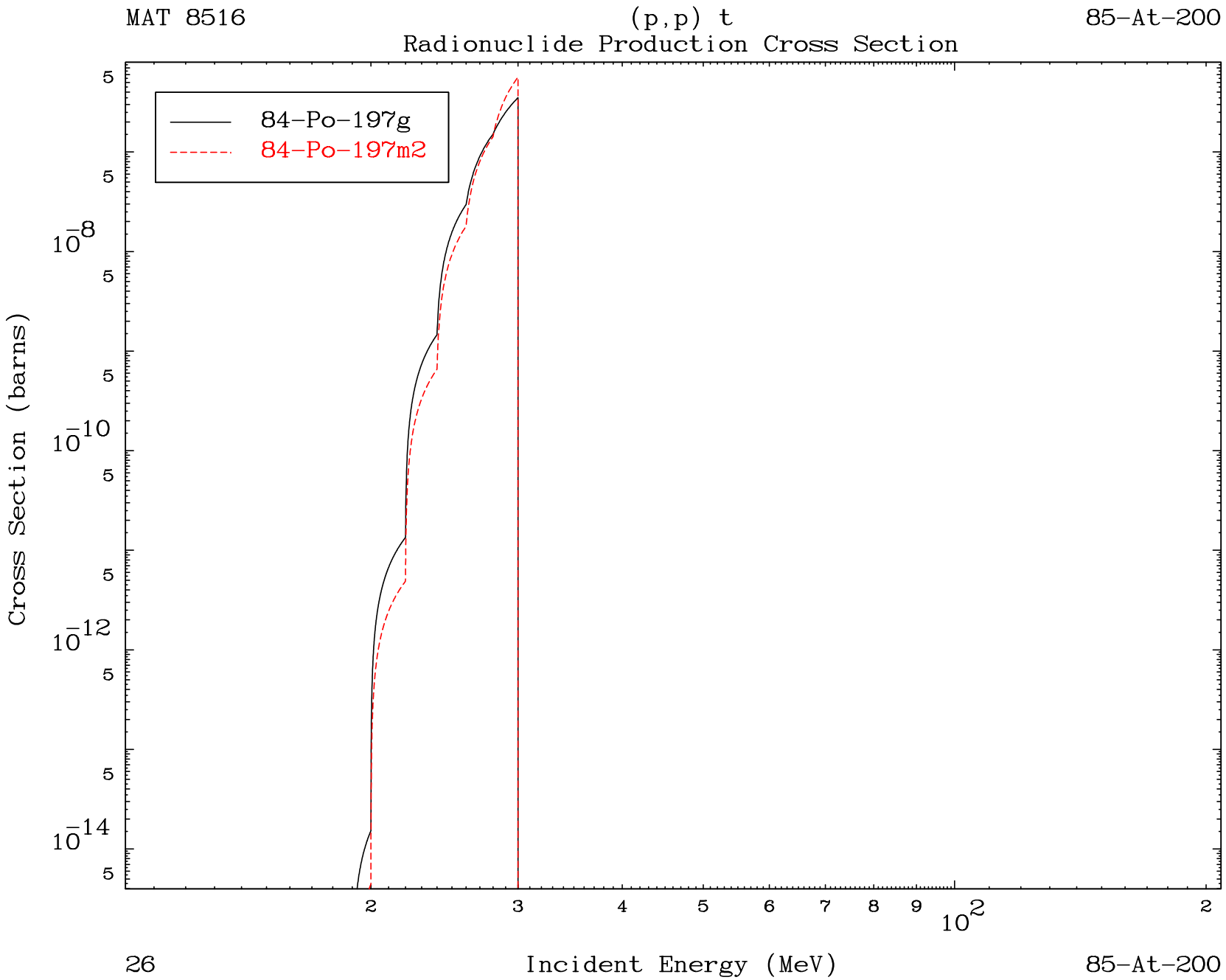

MAT 8516
(p,t)
85-At-200
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
10-4
10-6
10-8
10-10
101
2
3
4
5
6
7
8
9
102
2
21
Incident Energy (MeV)
85-At-200

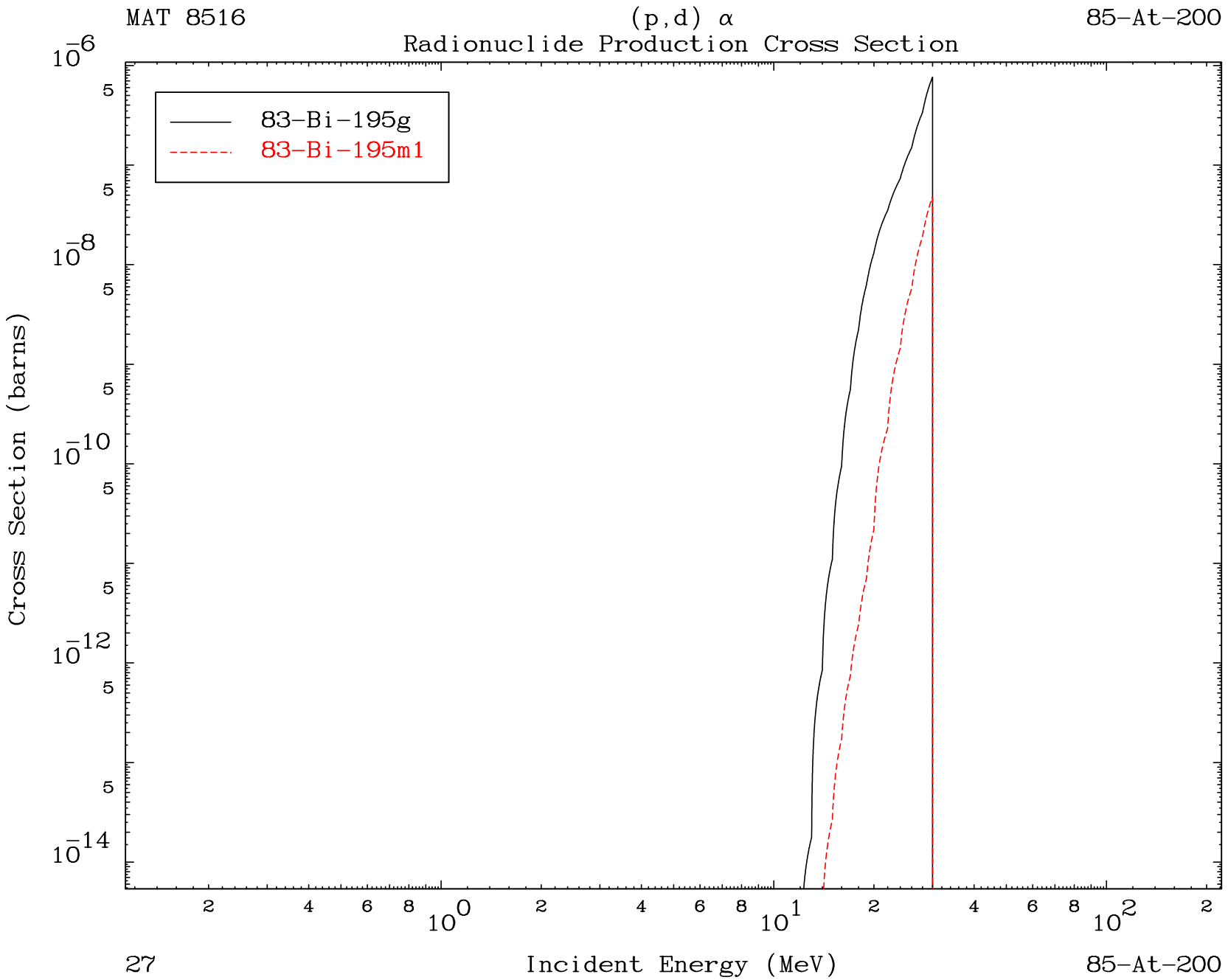

MAT 8516
(p,α)
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
Incident Energy (MeV)
22
85-At-200


MAT 8516
(p,2α)
85-At-200
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
Incident Energy (MeV)
23
85-At-200


MAT 8516
(p,2p)
85-At-200
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
24
85-At-200


MAT 8516
(p,p) α
85-At-200
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
25
85-At-200


MAT 8516
(p,p) t
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
Incident Energy (MeV)
26
85-At-200


MAT 8516
(p,d) α
85-At-200
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
Incident Energy (MeV)
27
85-At-200