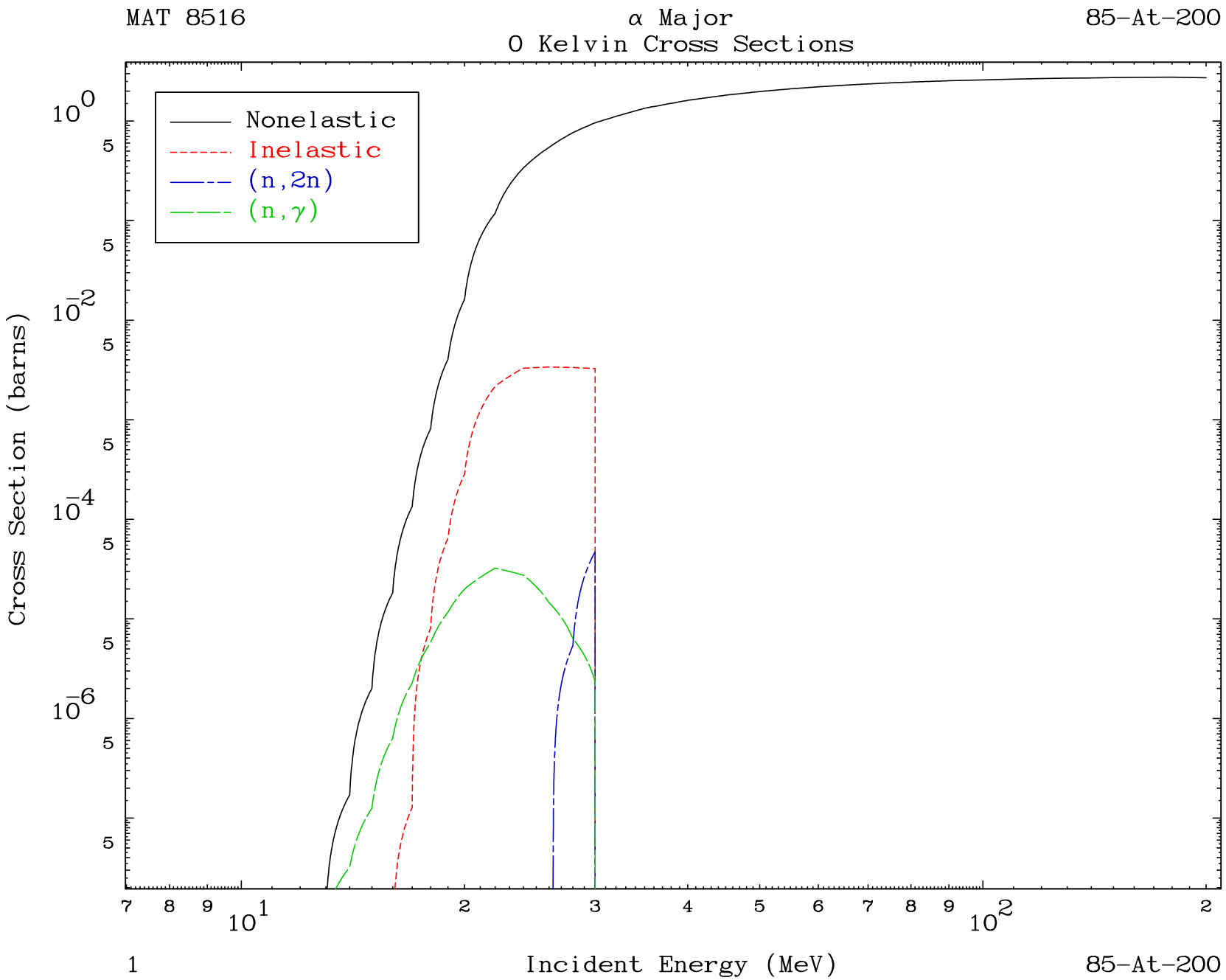
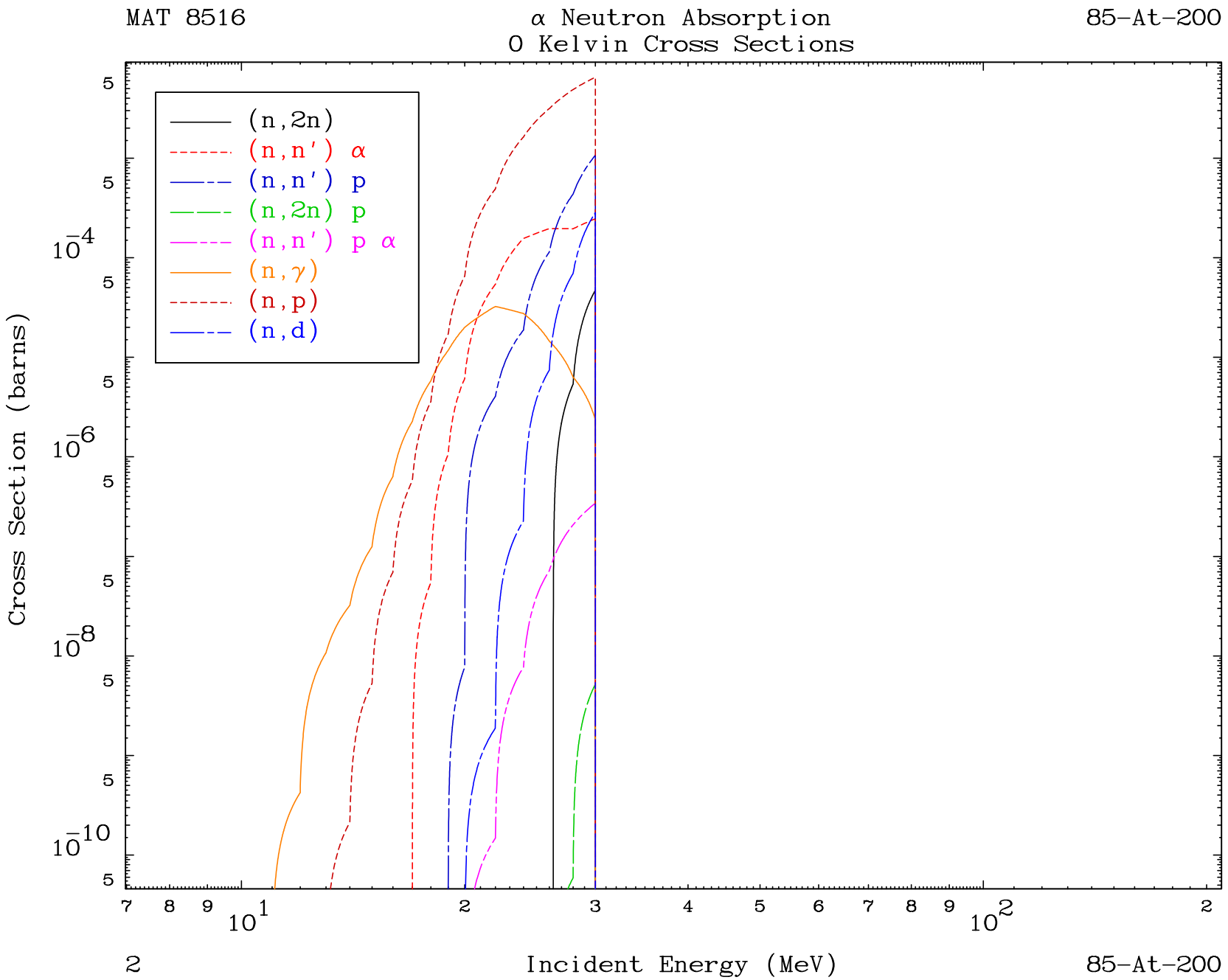
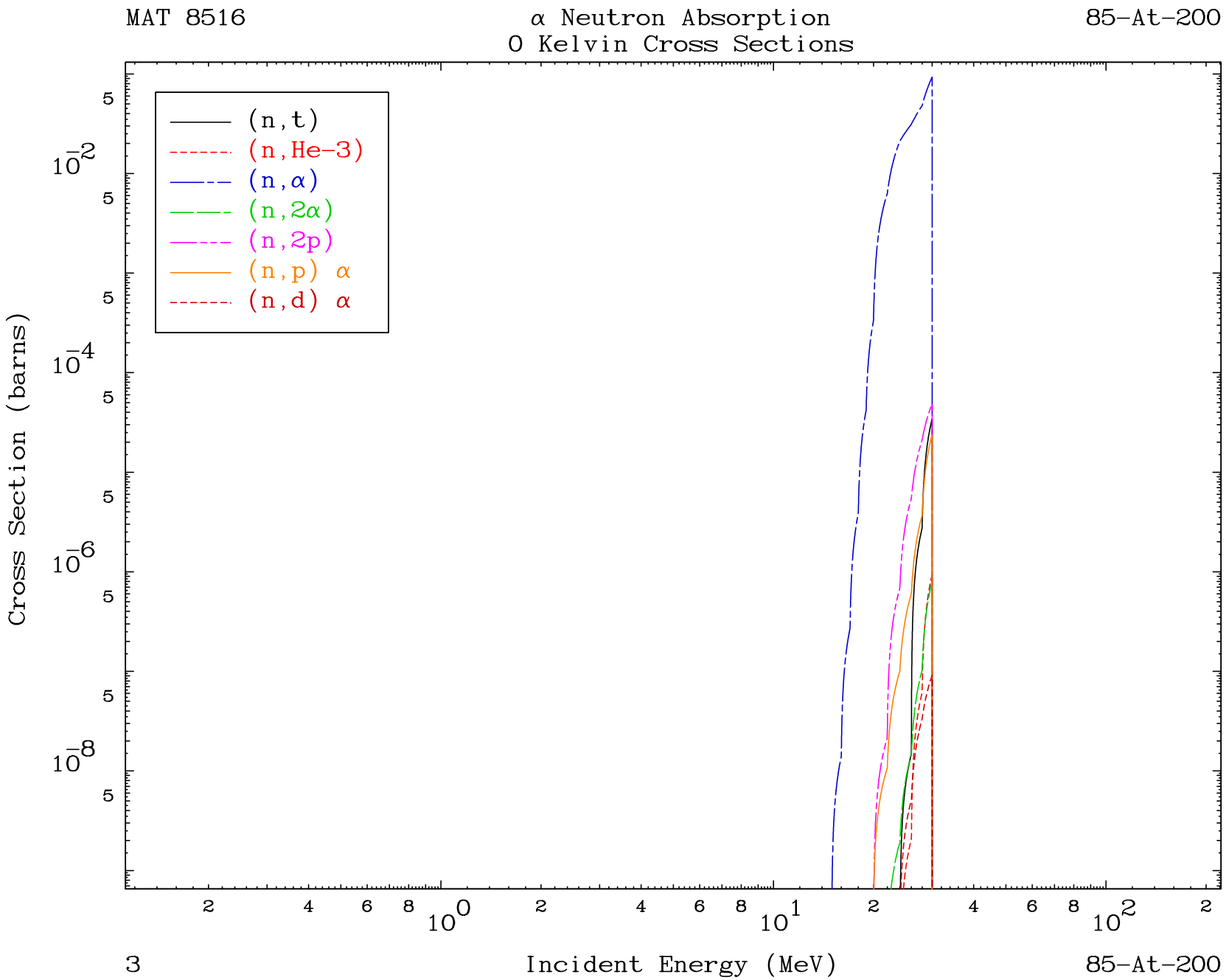
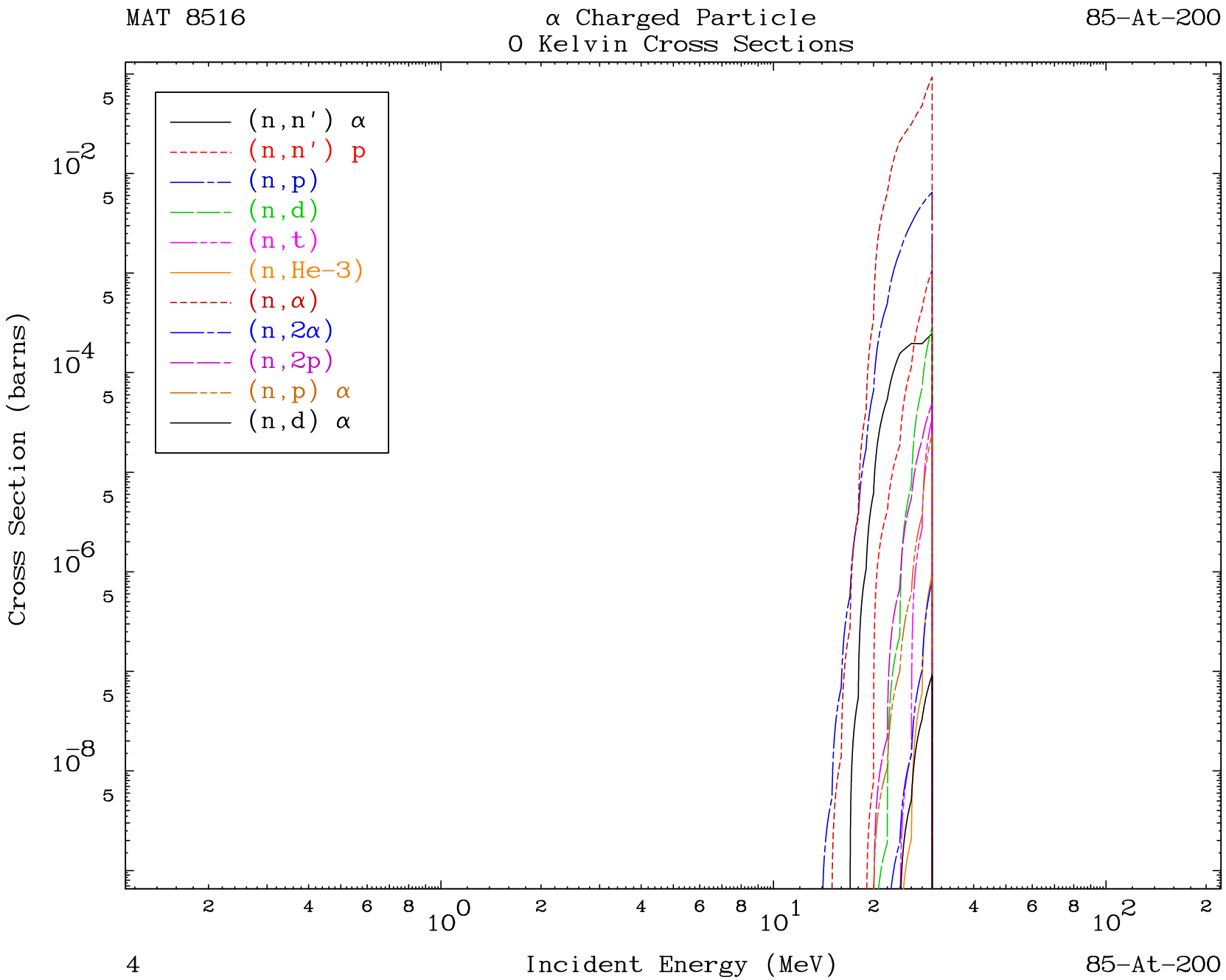
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

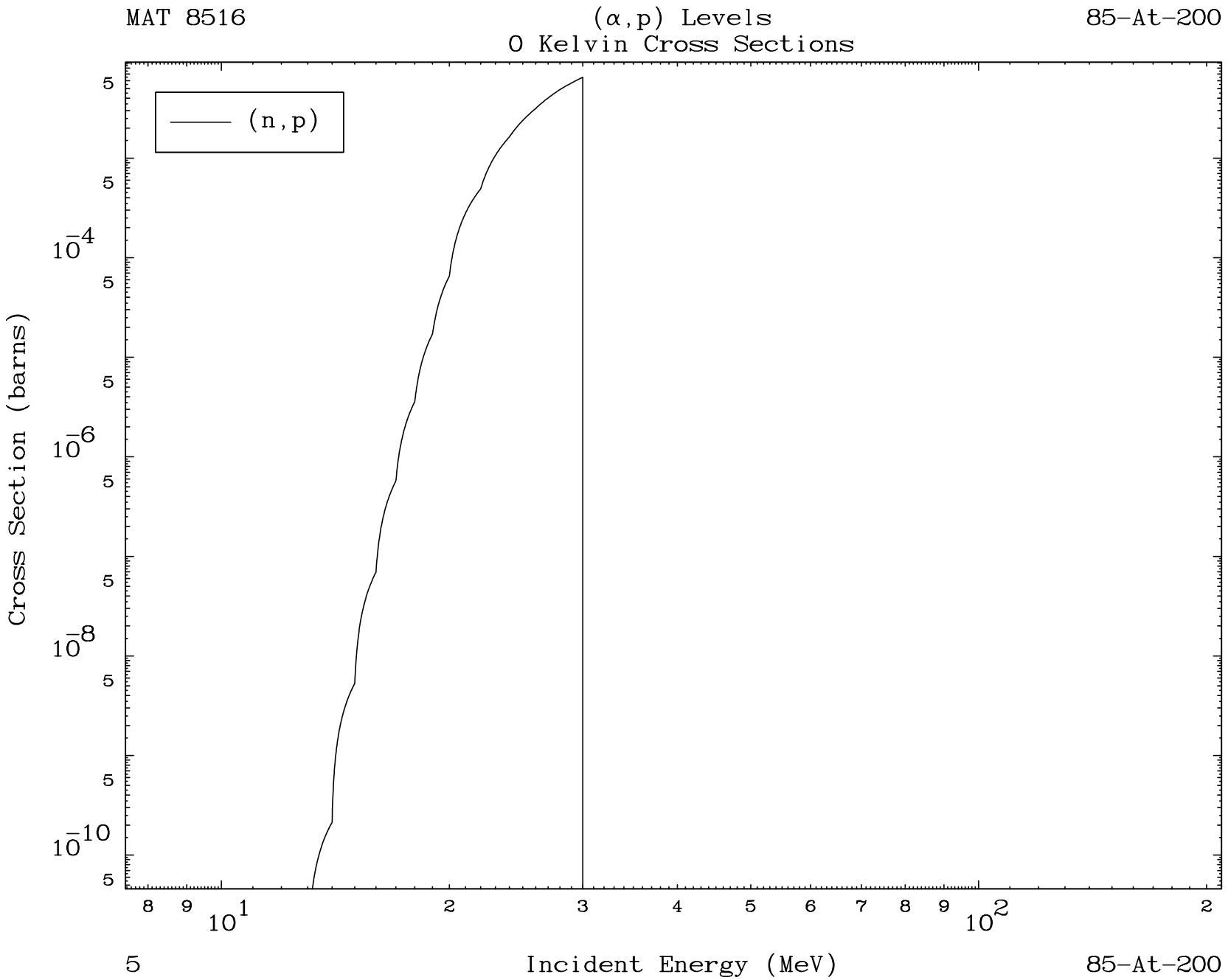
Press Mouse Button to Start

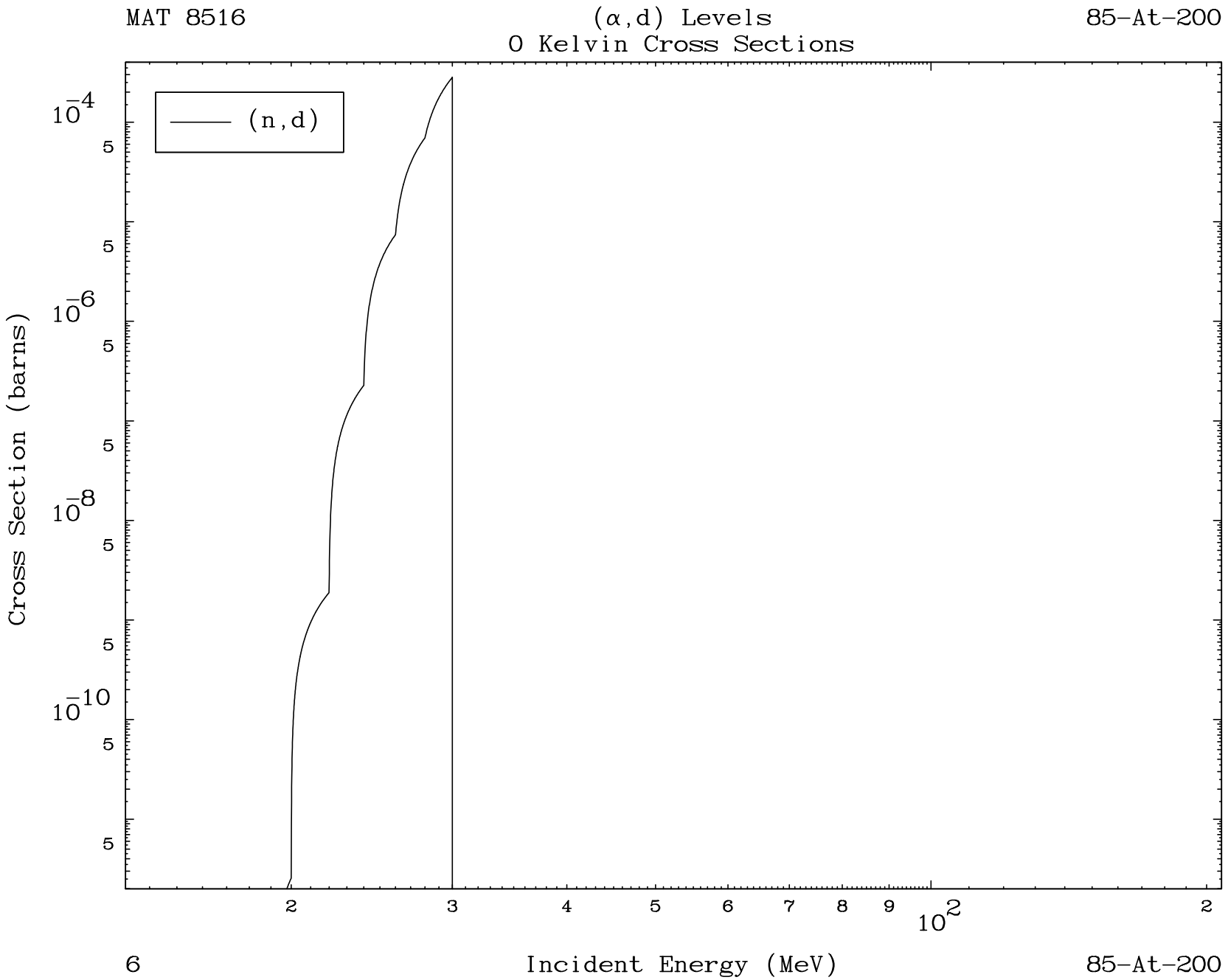

MAT 8516
α Major
85-At-200
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
85-At-200

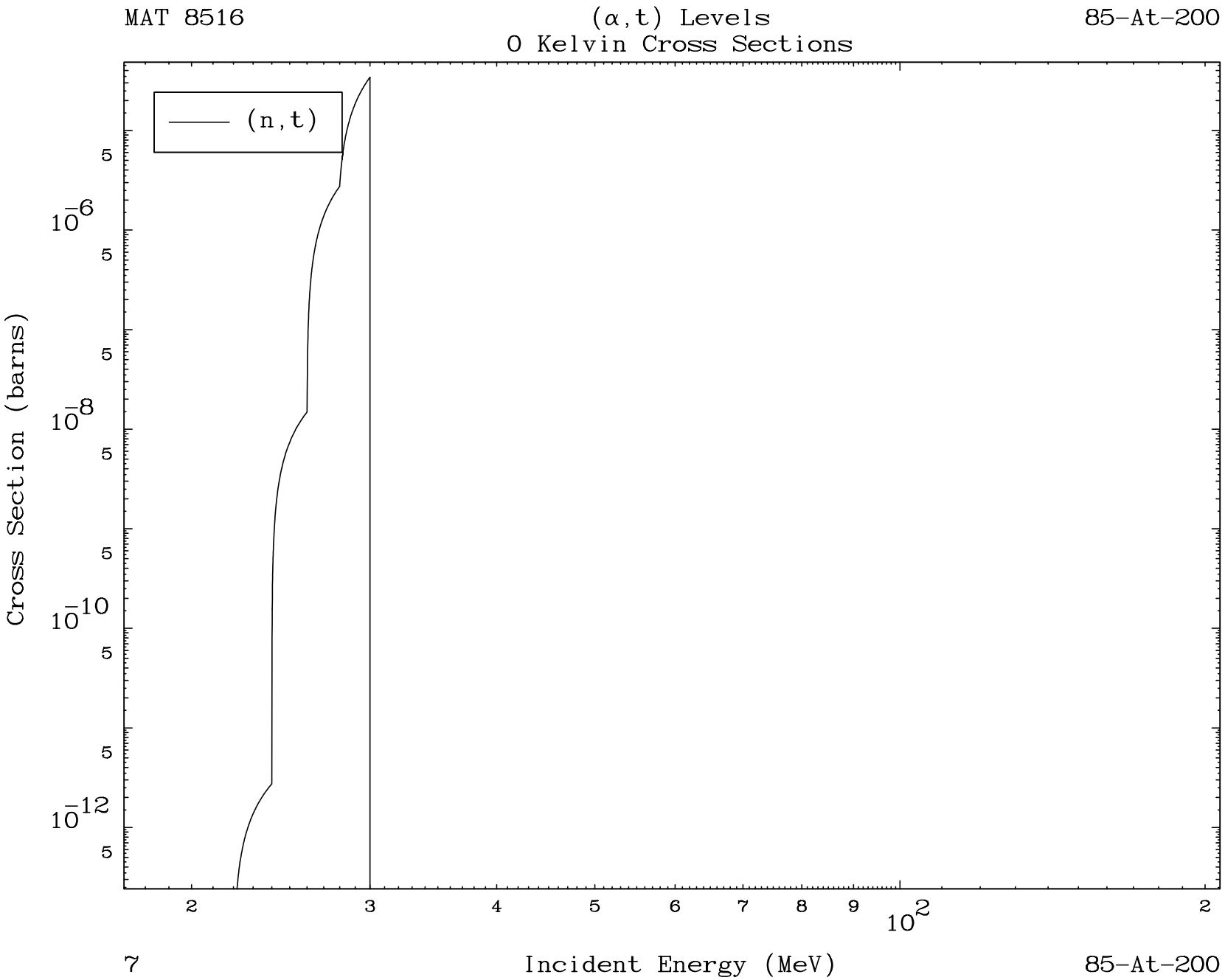

MAT 8516
α Neutron Absorption
0 Kelvin Cross Sections
85-At-200
(n,2n)
(n,n') α
(n,n') p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
85-At-200

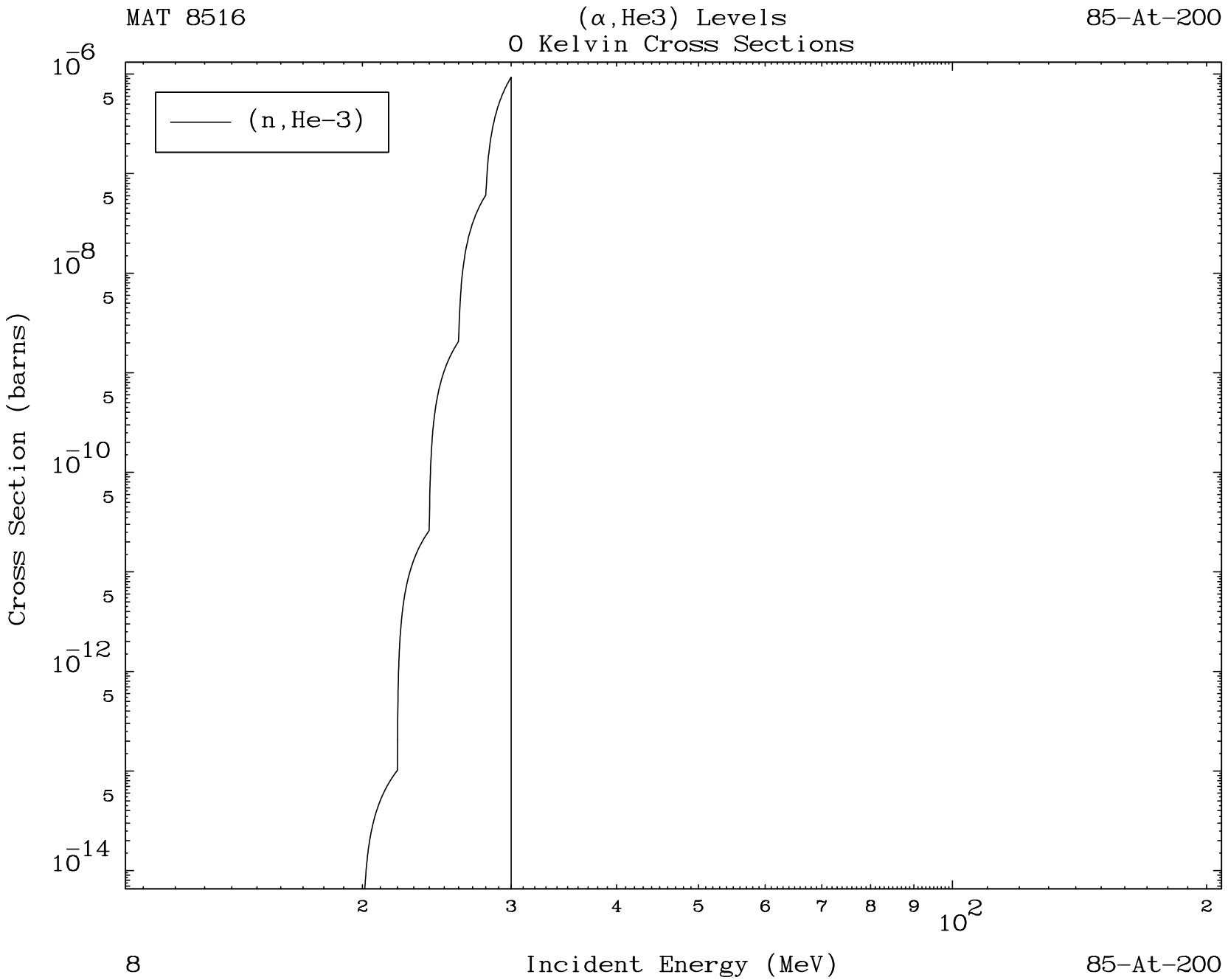

MAT 8516
α Neutron Absorption
0 Kelvin Cross Sections
85-At-200
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
85-At-200

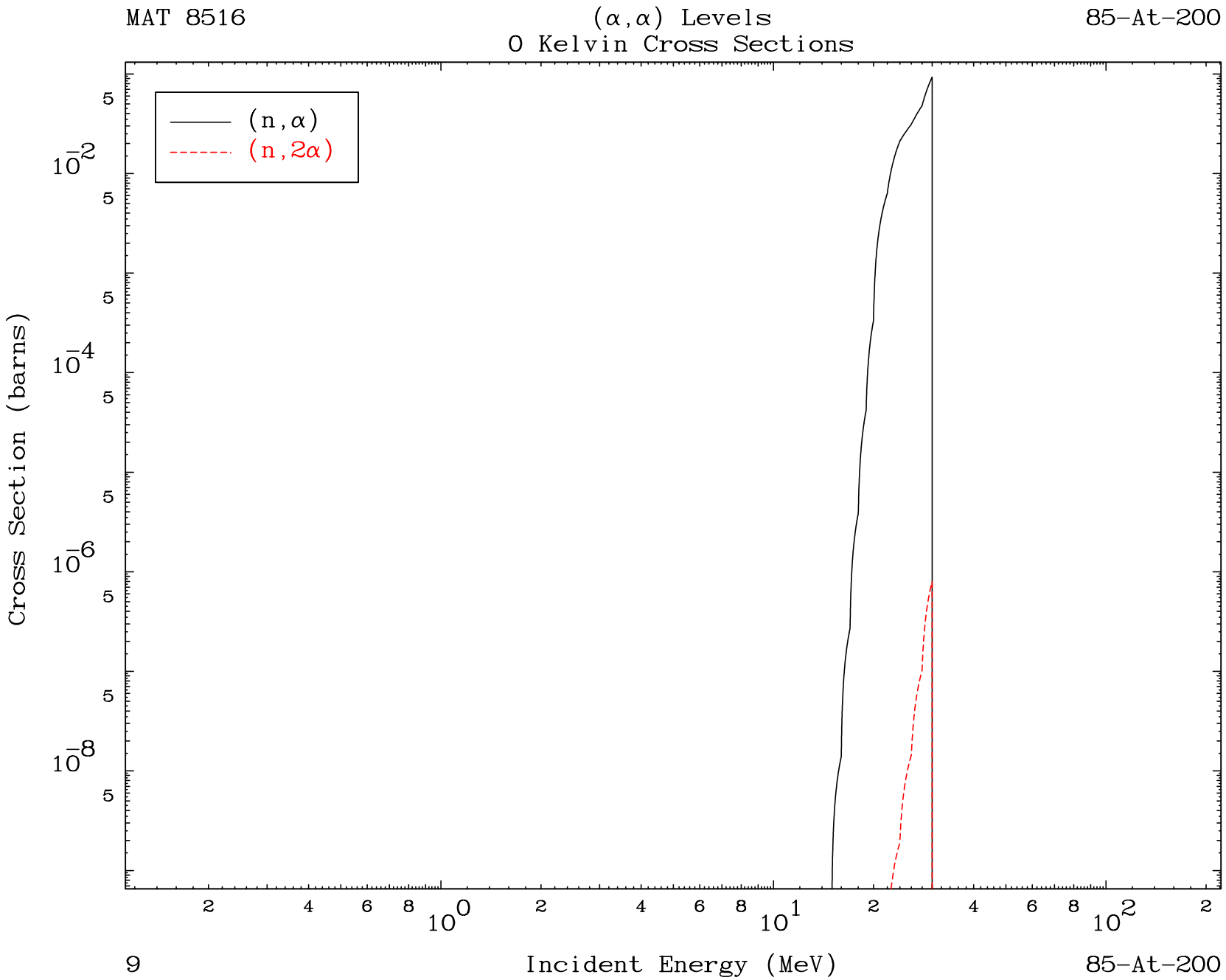

MAT 8516
α Charged Particle
0 Kelvin Cross Sections
85-At-200
(n,n') α
(n,n') p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
85-At-200

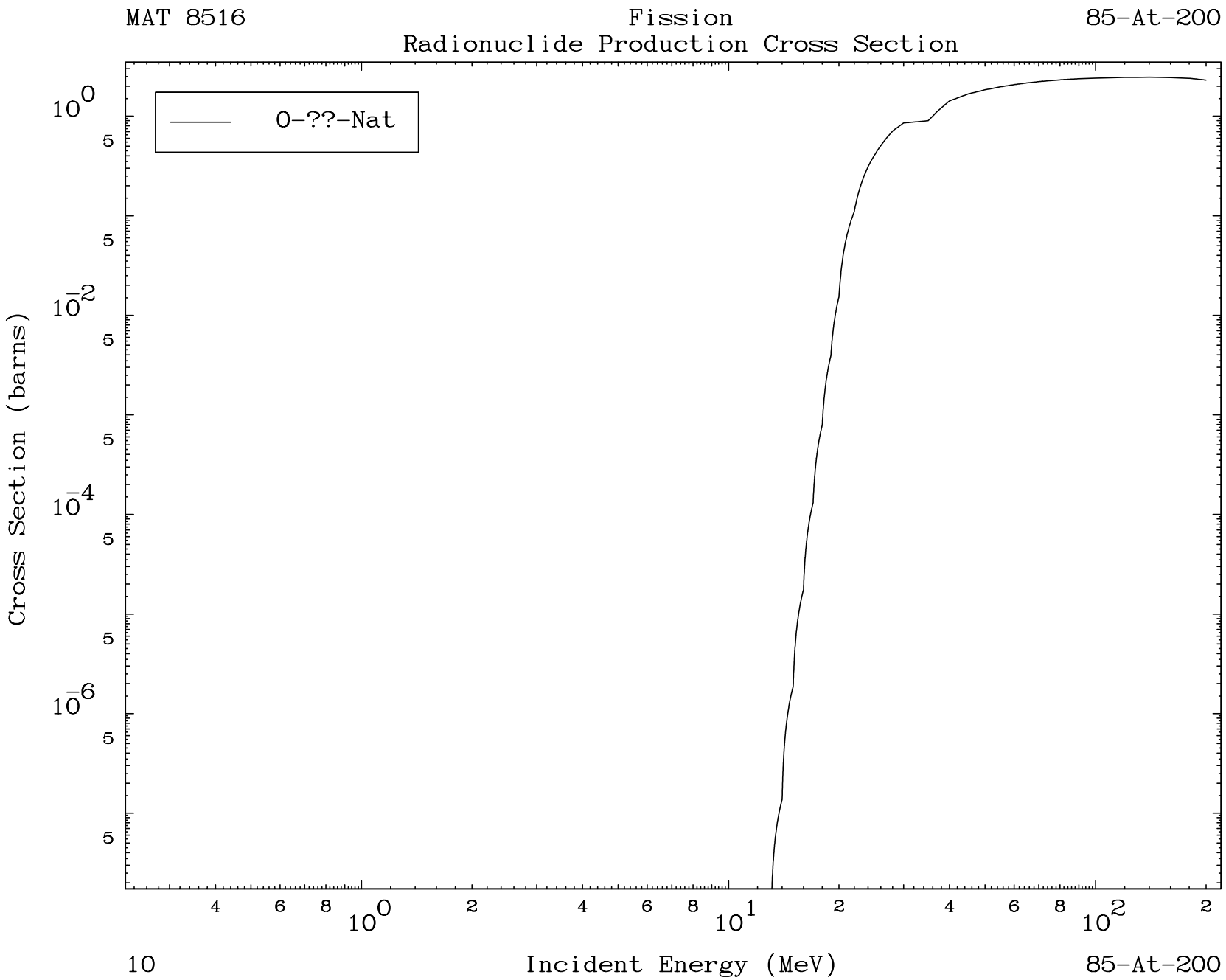

MAT 8516
(α,p) Levels
85-At-200
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
101
102
85-At-200

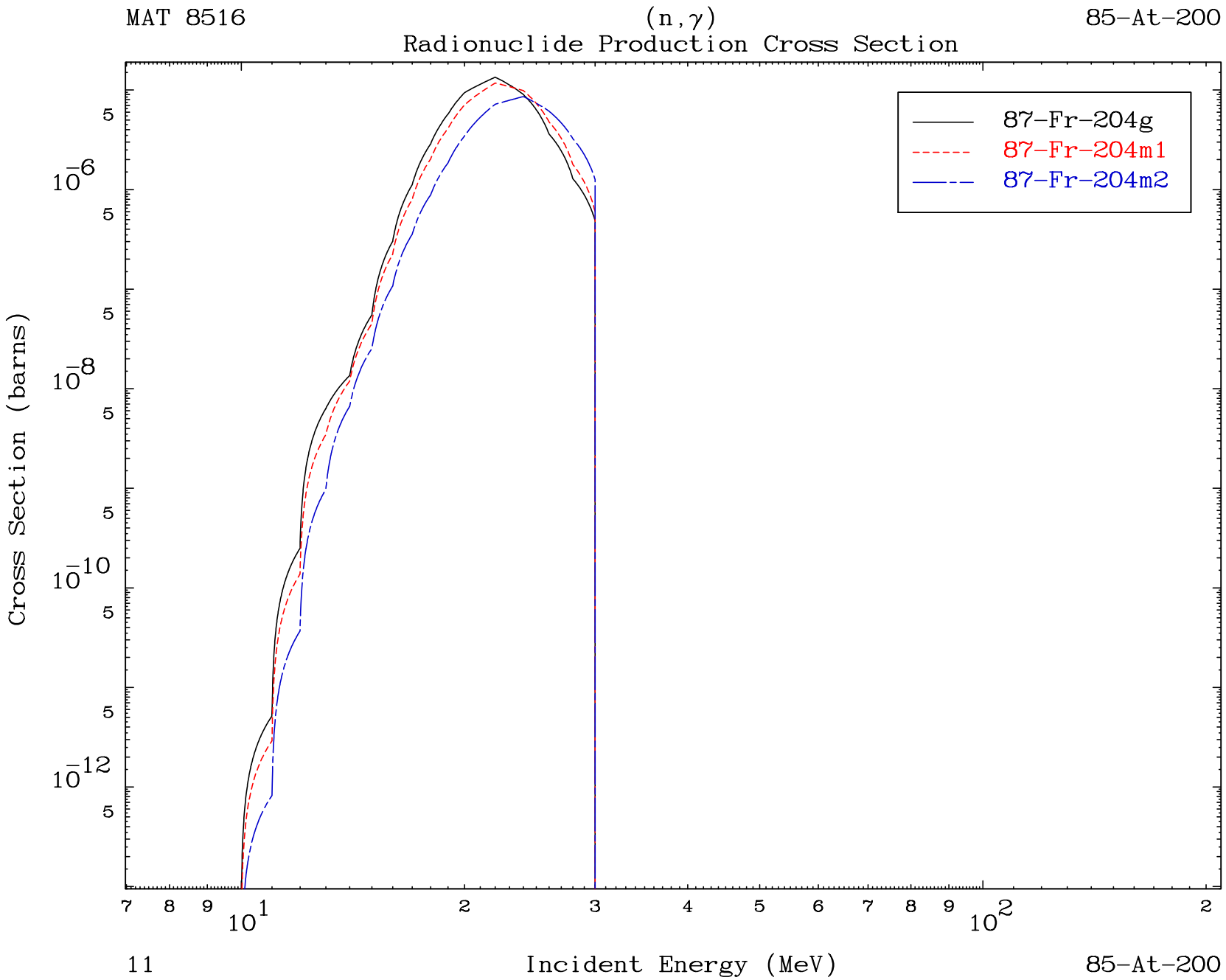

MAT 8516
(α,d) Levels
85-At-200
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
6
Incident Energy (MeV)
85-At-200

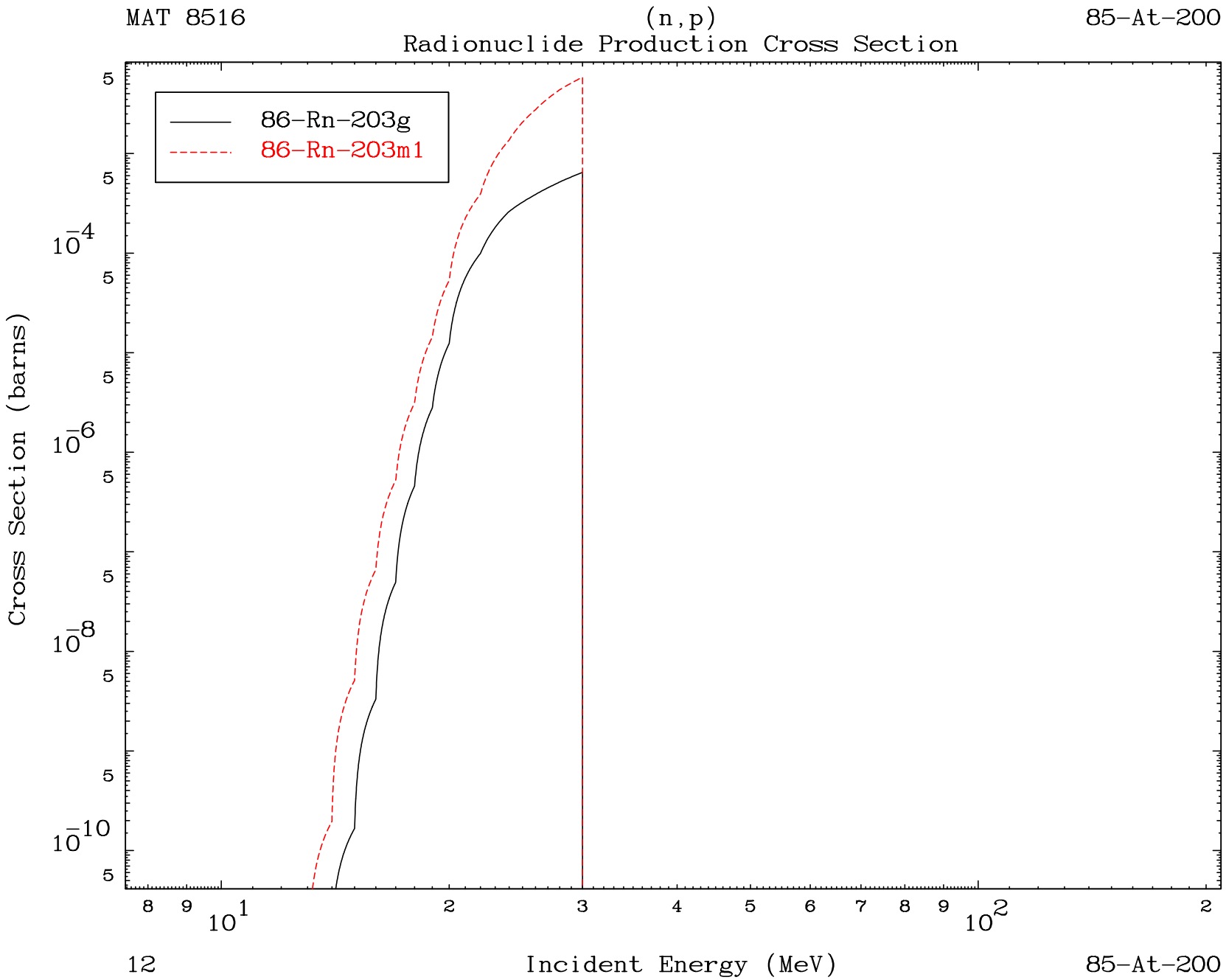

MAT 8516
(α,t) Levels
85-At-200
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
7
Incident Energy (MeV)
85-At-200

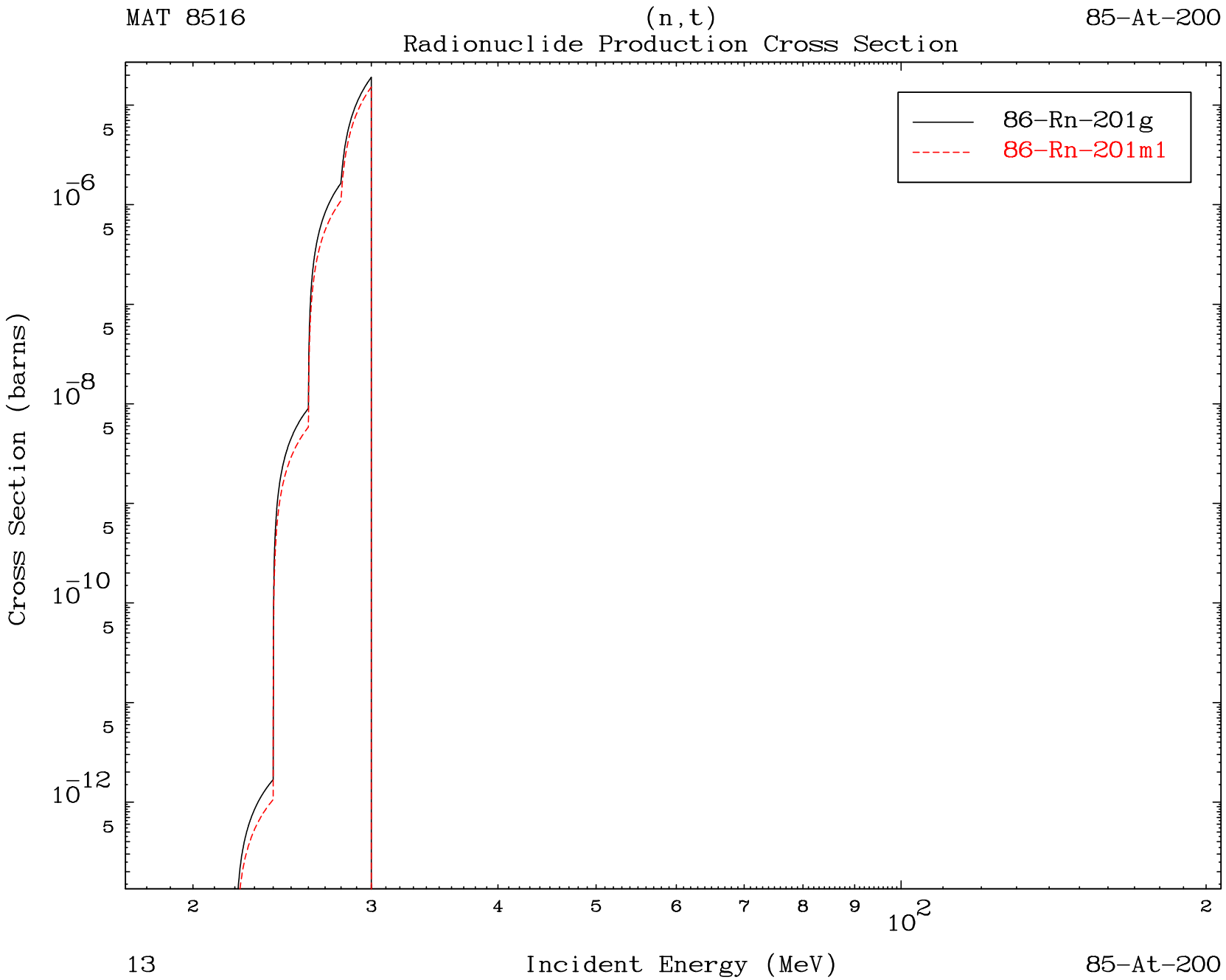

MAT 8516
(α,He3) Levels
85-At-200
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^-14
2
3
4
5
6
7
8
9
10^2
2
8
Incident Energy (MeV)
85-At-200

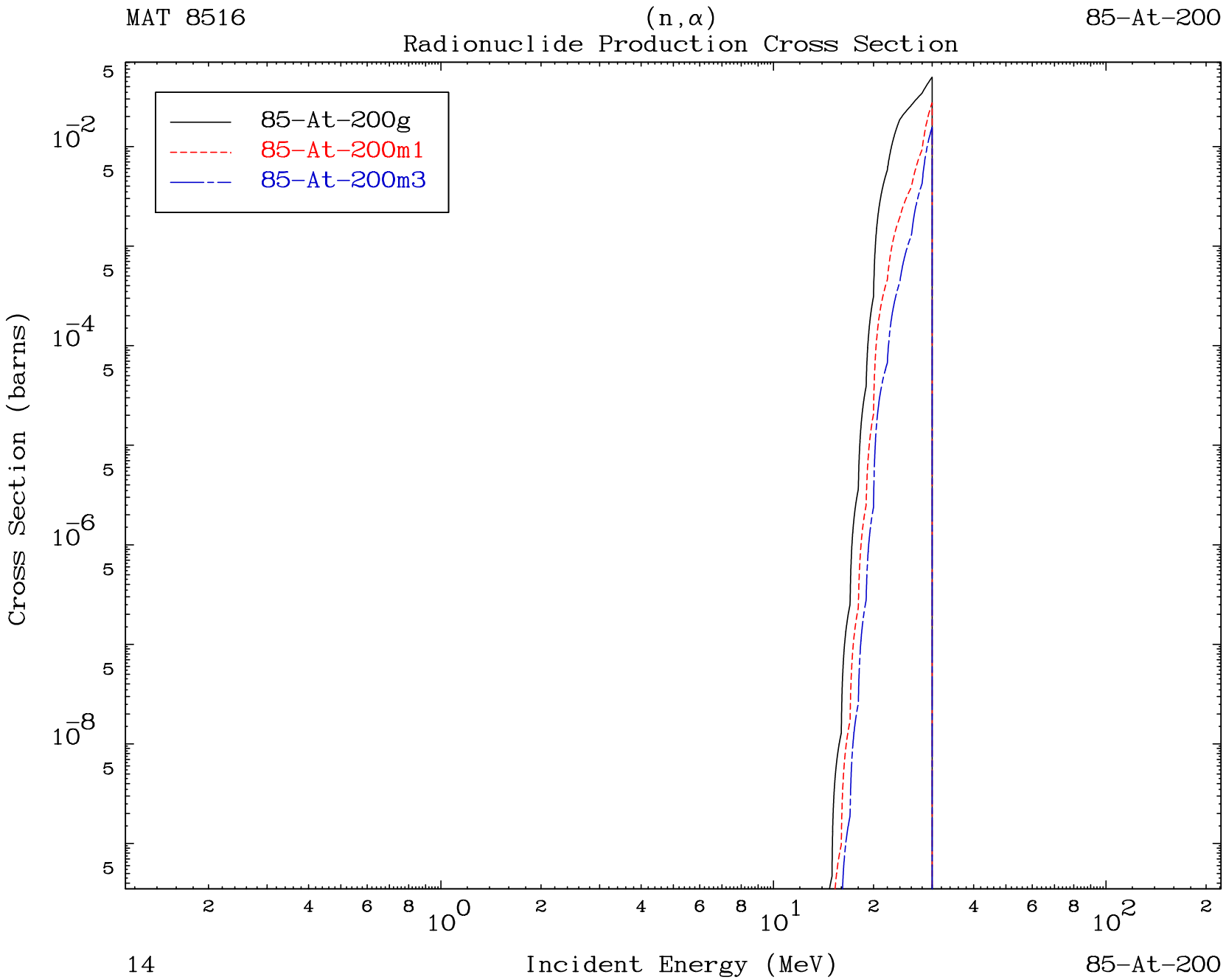

MAT 8516
(α,α) Levels
85-At-200
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
9
85-At-200

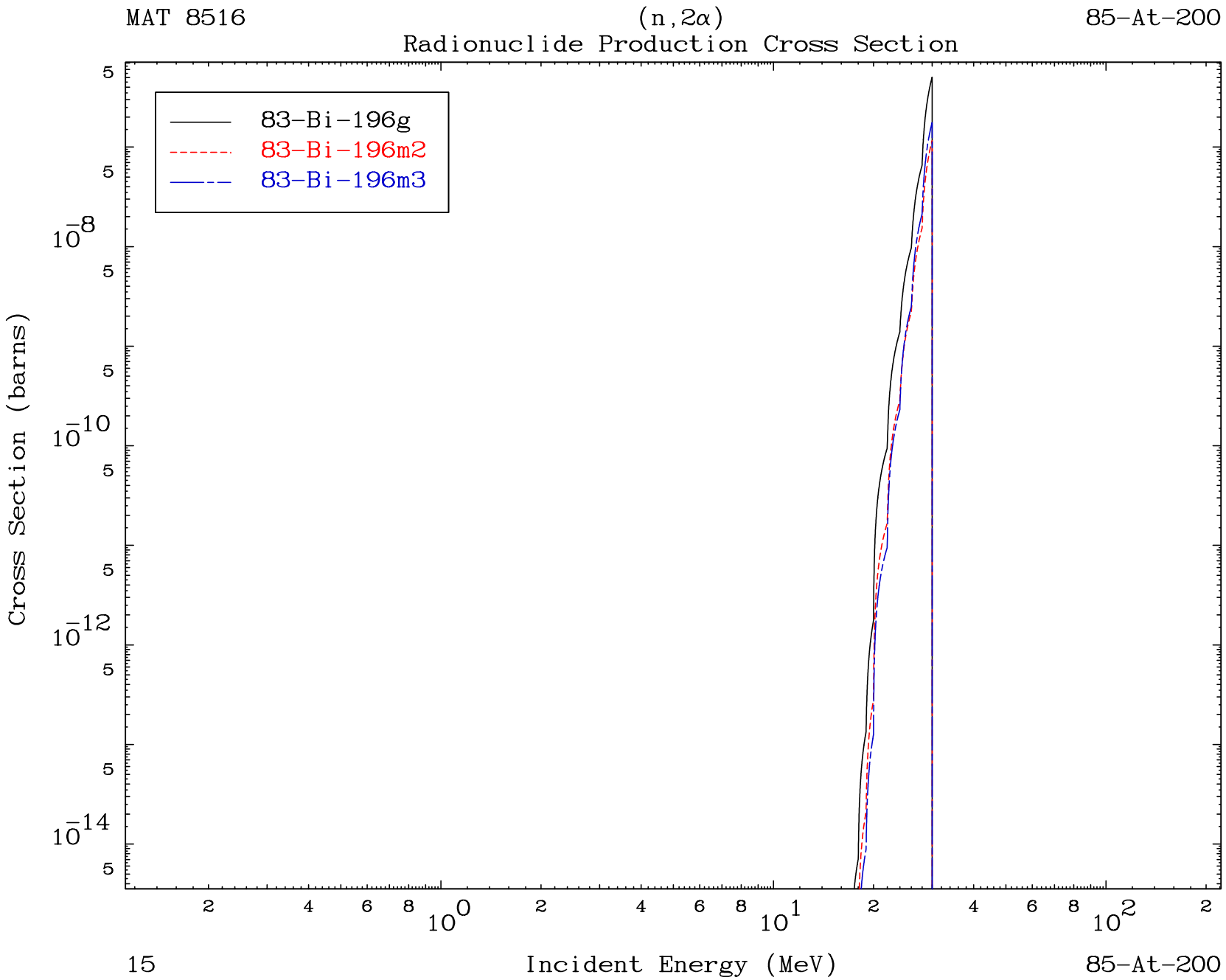

MAT 8516
Fission
85-At-200
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
10
85-At-200

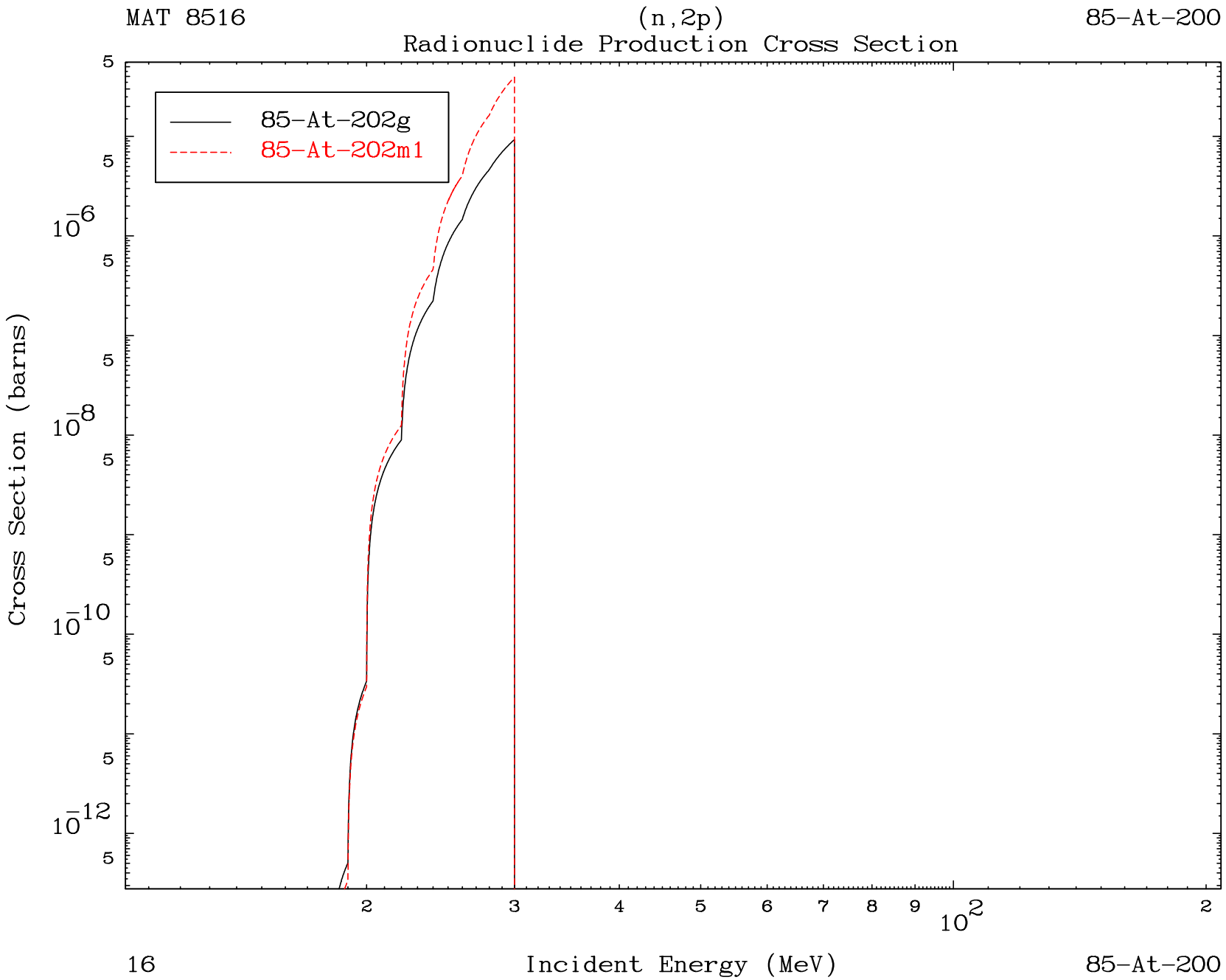

MAT 8516
(n,γ)
85-At-200
Radionuclide Production Cross Section
87-Fr-204g
87-Fr-204m1
87-Fr-204m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
11
Incident Energy (MeV)
85-At-200

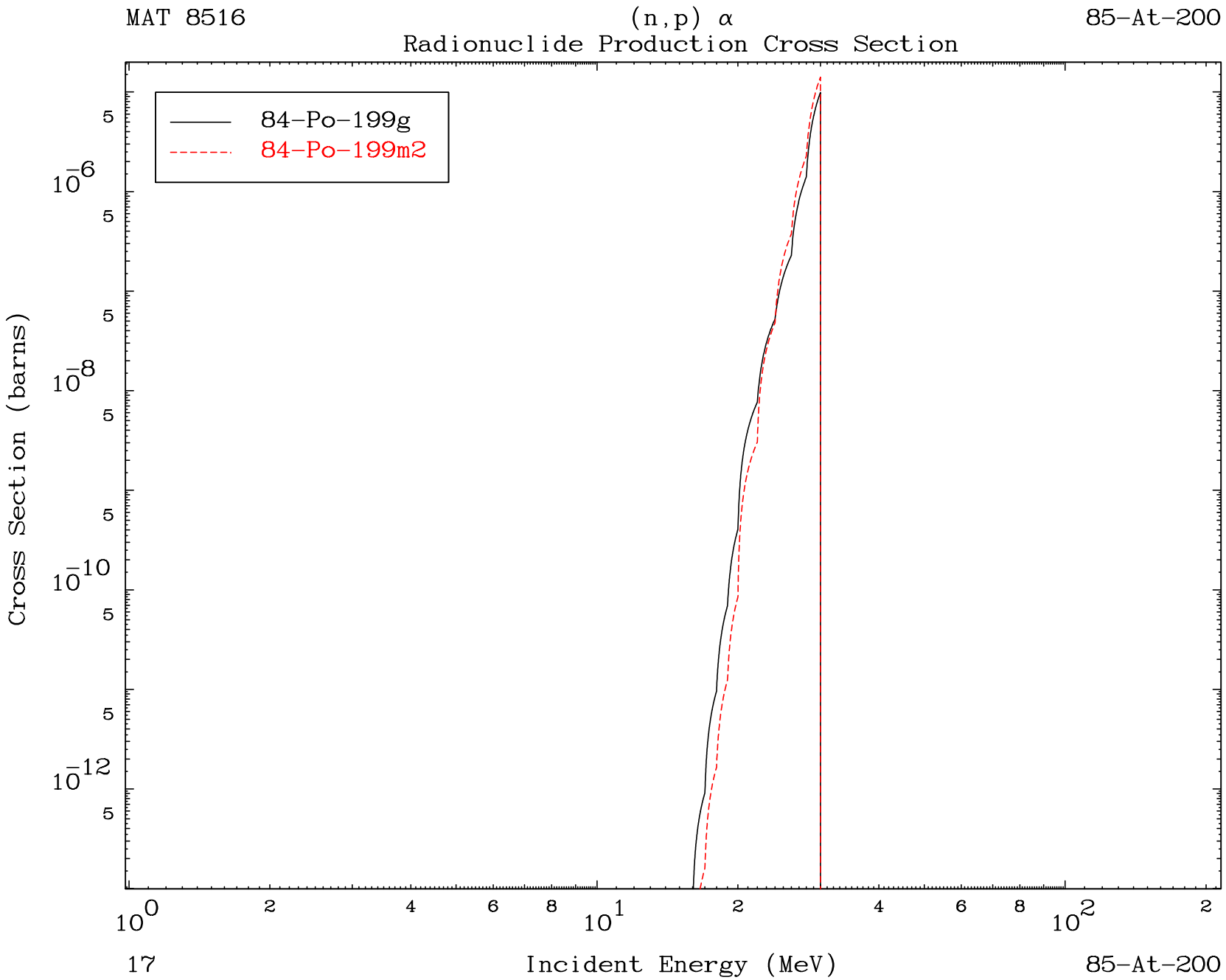

MAT 8516
(n,p)
85-At-200
Radionuclide Production Cross Section
86-Rn-203g
86-Rn-203m1
Cross Section (barns)
Incident Energy (MeV)
12
85-At-200


MAT 8516
(n,t)
85-At-200
Radionuclide Production Cross Section
86-Rn-201g
86-Rn-201m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
13
Incident Energy (MeV)
85-At-200


MAT 8516
(n,α)
85-At-200
Radionuclide Production Cross Section
85-At-200g
85-At-200m1
85-At-200m3
Cross Section (barns)
Incident Energy (MeV)
14
85-At-200


MAT 8516
(n,2α)
85-At-200
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
15
85-At-200


MAT 8516
(n,2p)
85-At-200
Radionuclide Production Cross Section
85-At-202g
85-At-202m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
85-At-200


MAT 8516
(n,p) α
85-At-200
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
17
85-At-200