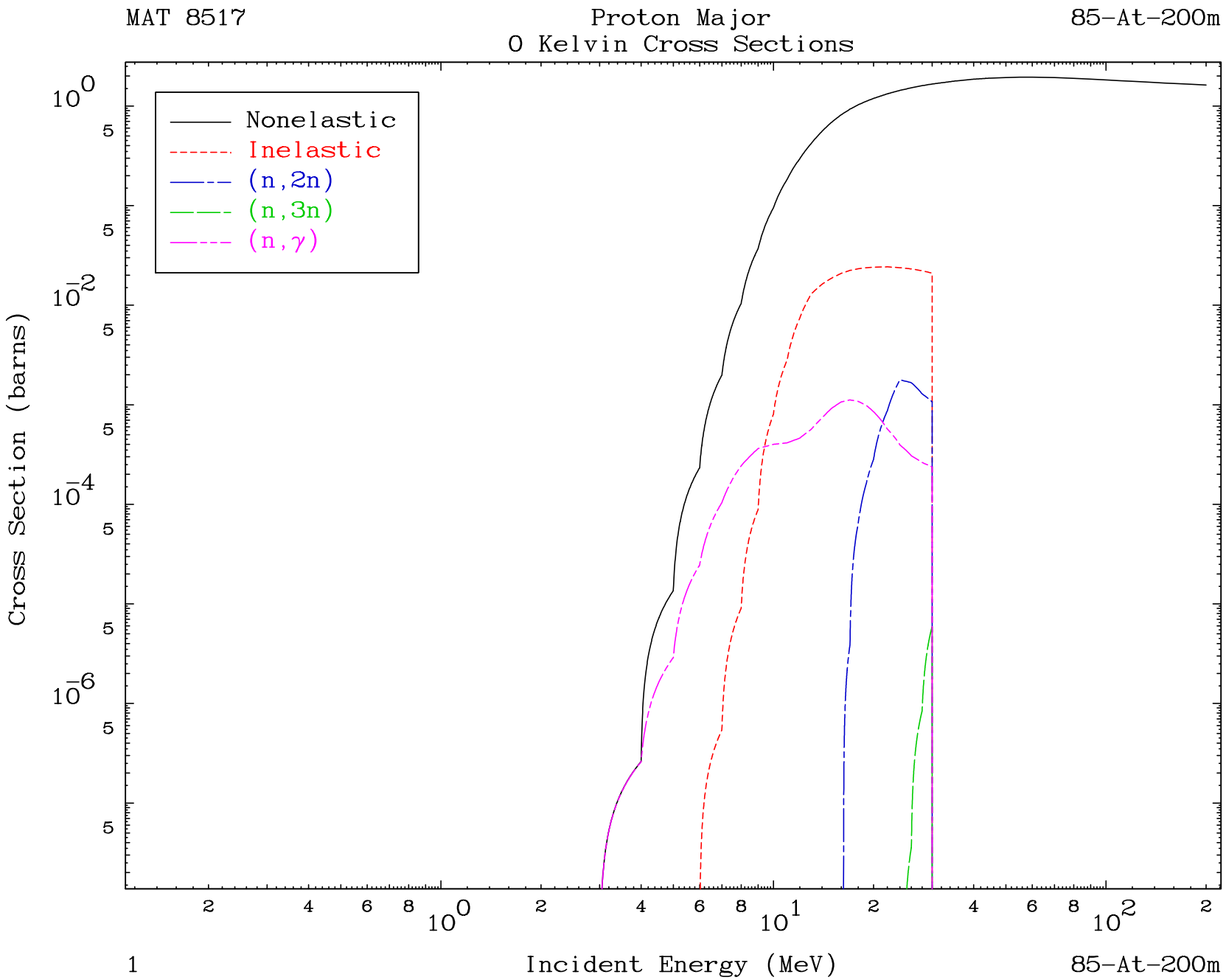
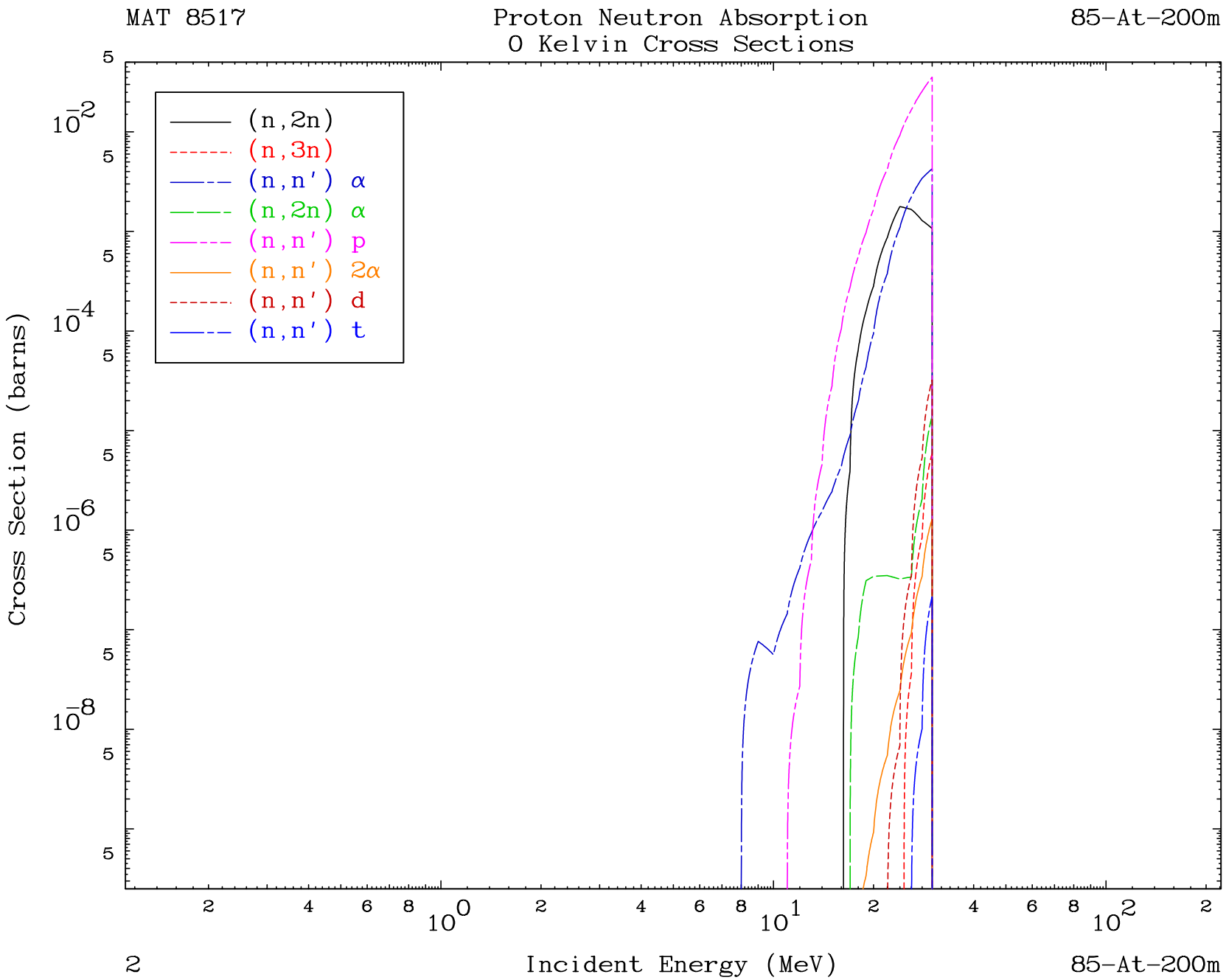
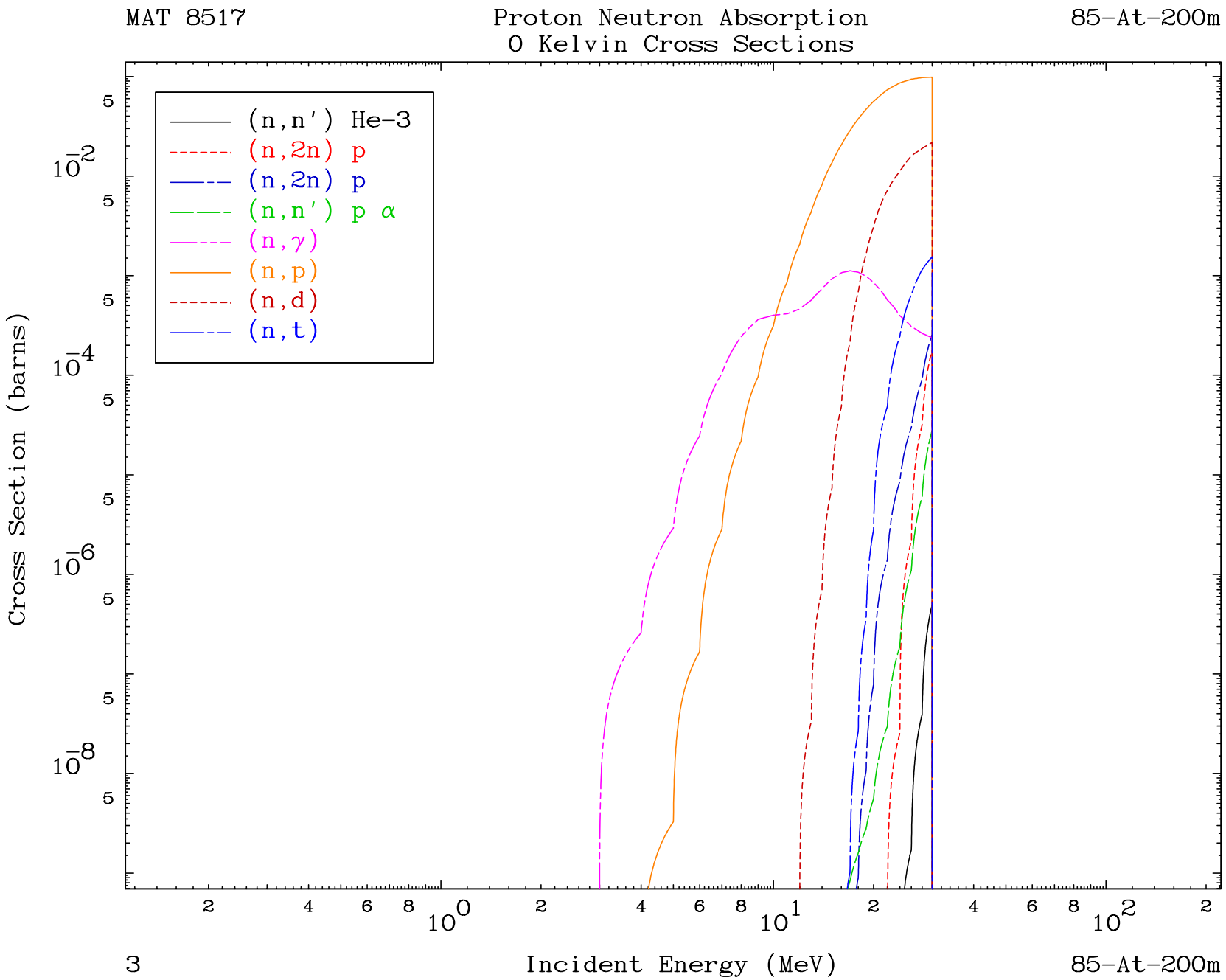
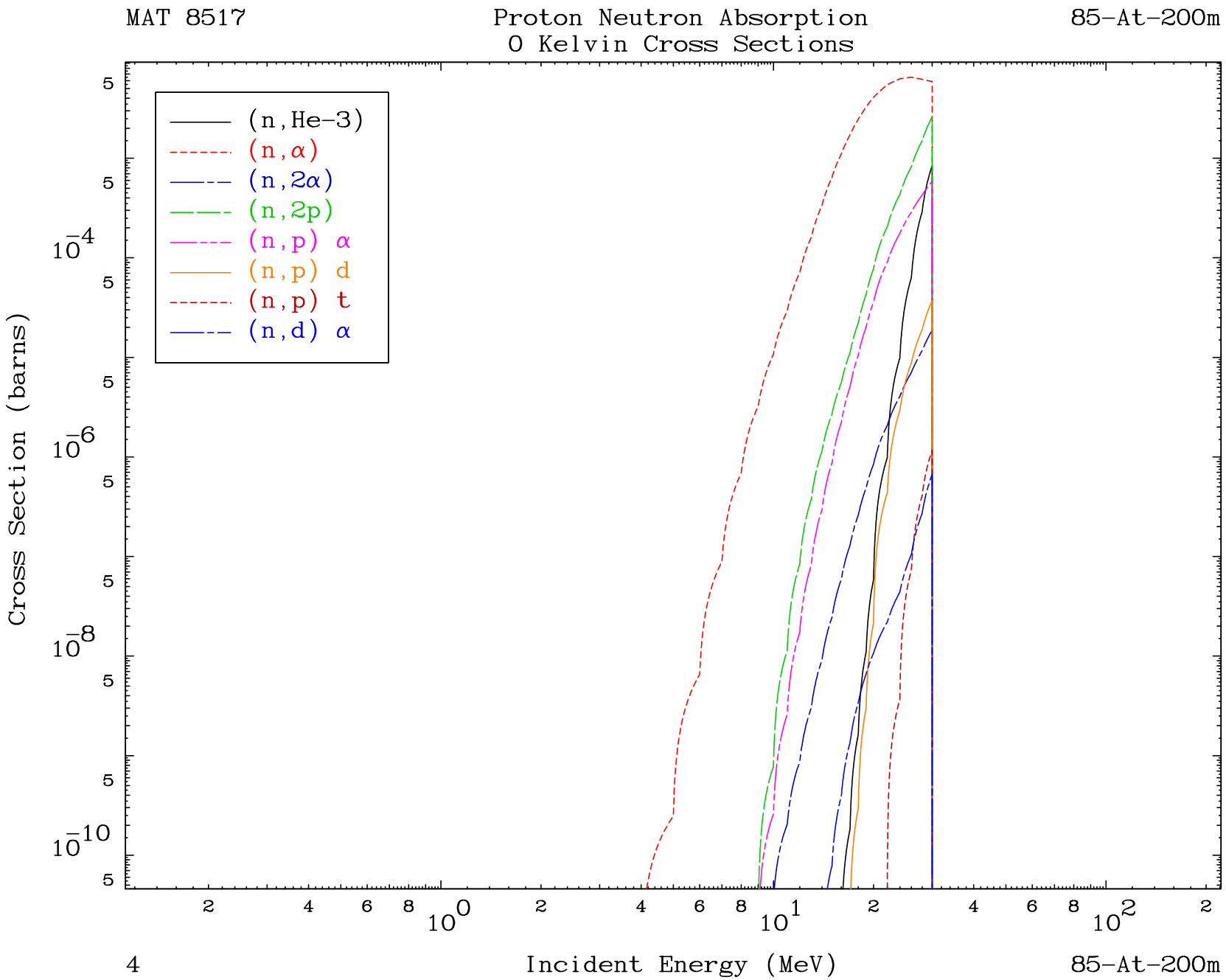
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

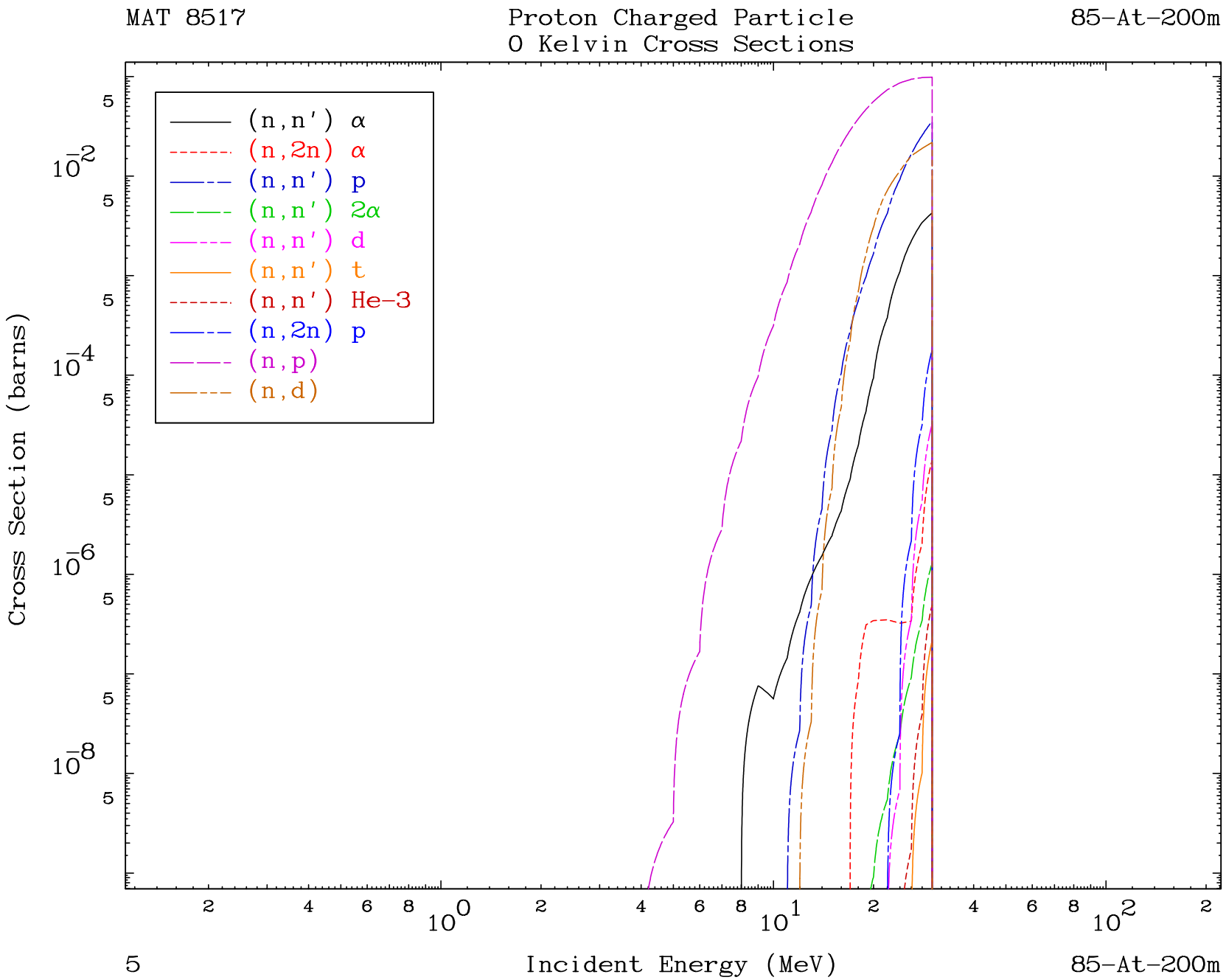
Press Mouse Button to Start

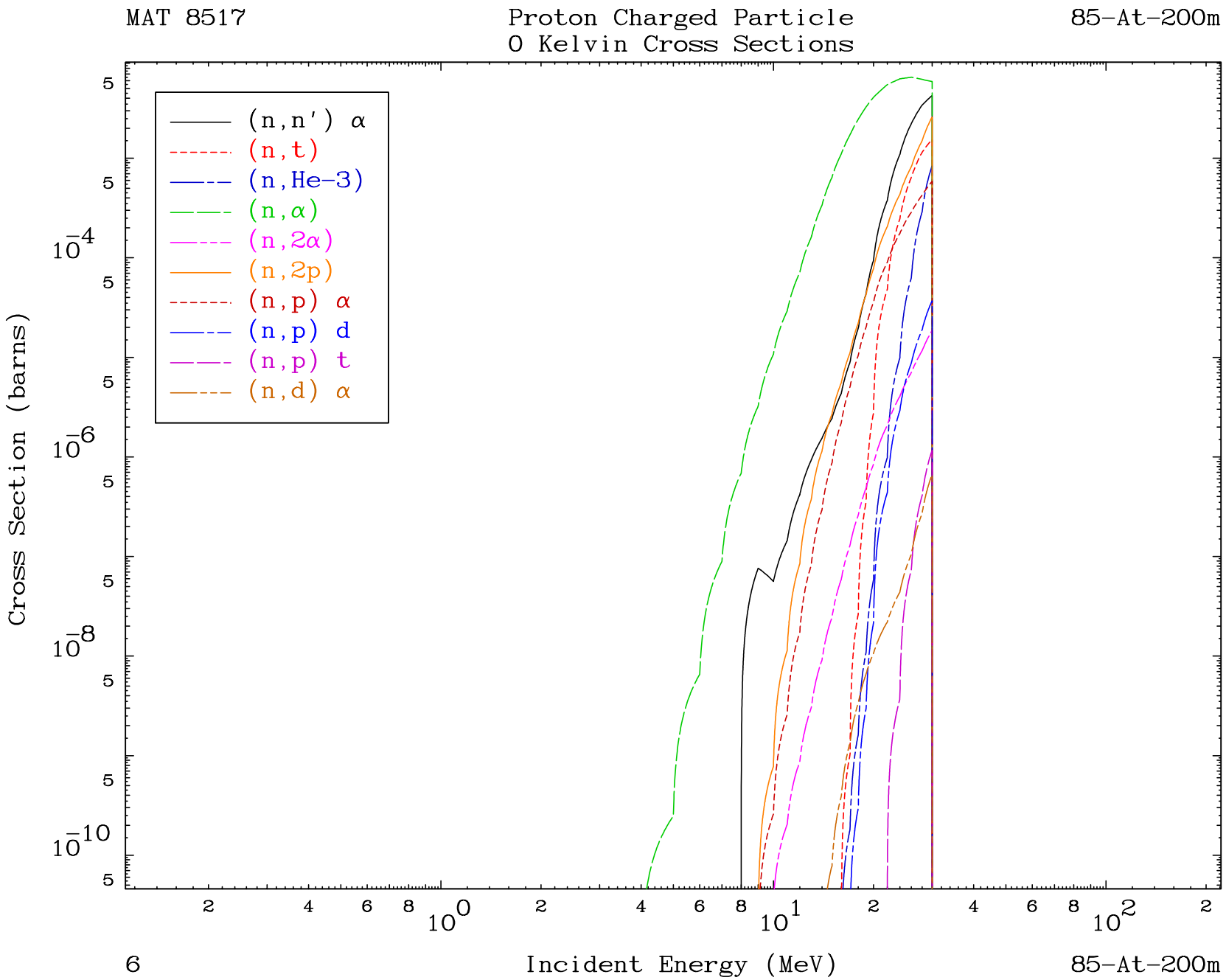

MAT 8517
Proton Major
85-At-200m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
85-At-200m
1

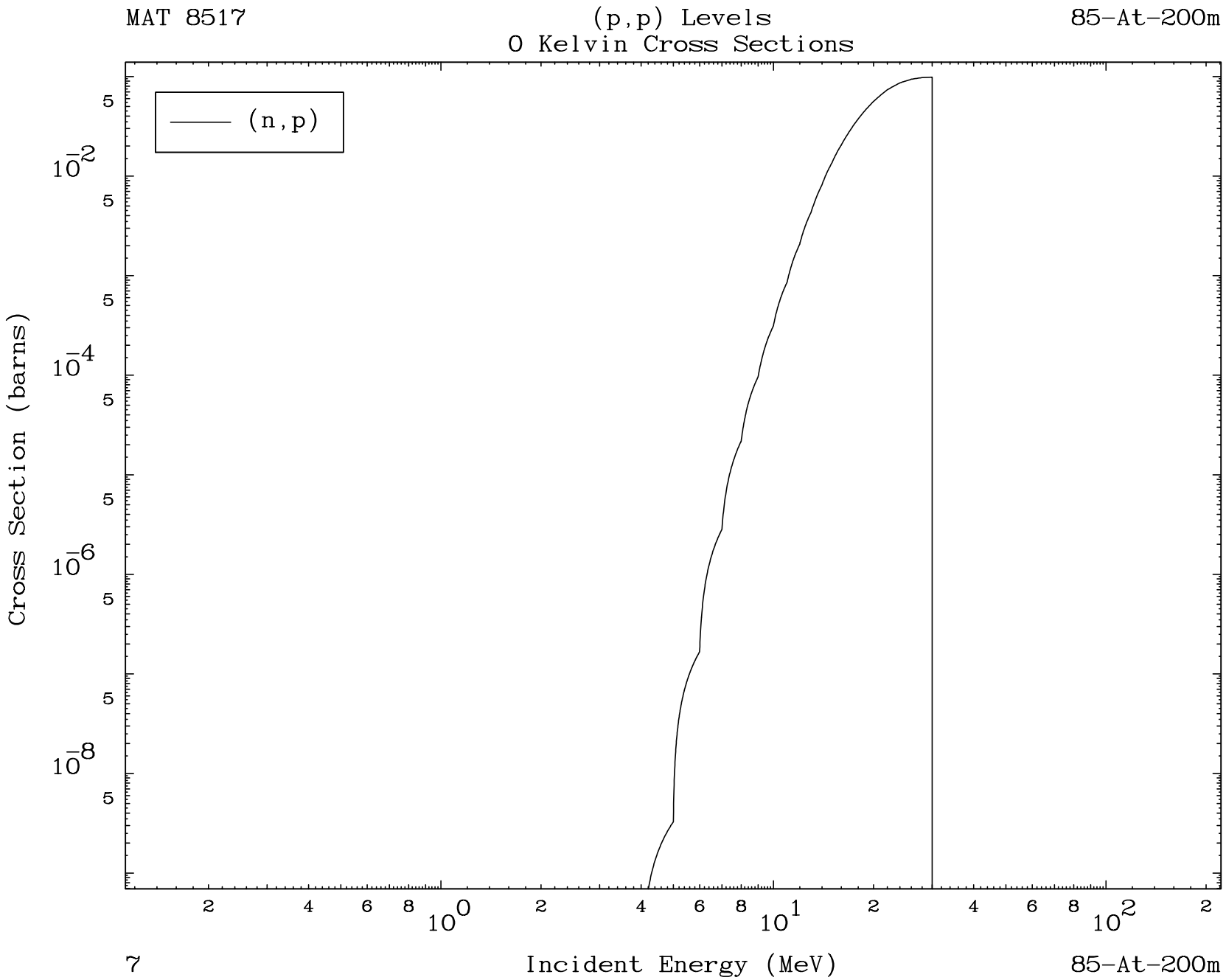

MAT 8517
Proton Neutron Absorption
0 Kelvin Cross Sections
85-At-200m
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
85-At-200m

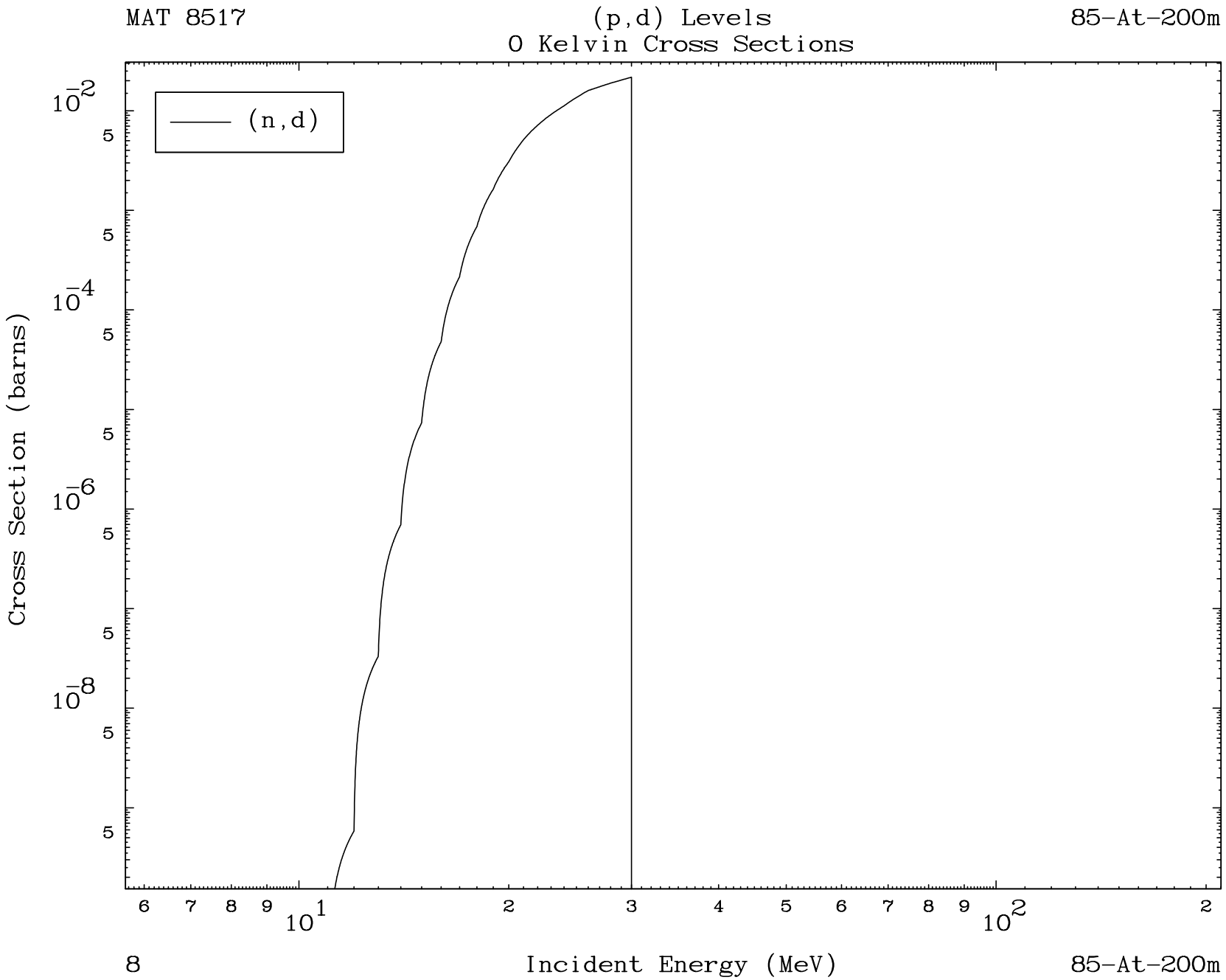

MAT 8517
Proton Neutron Absorption
0 Kelvin Cross Sections
85-At-200m
(n,n') He-3
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
85-At-200m

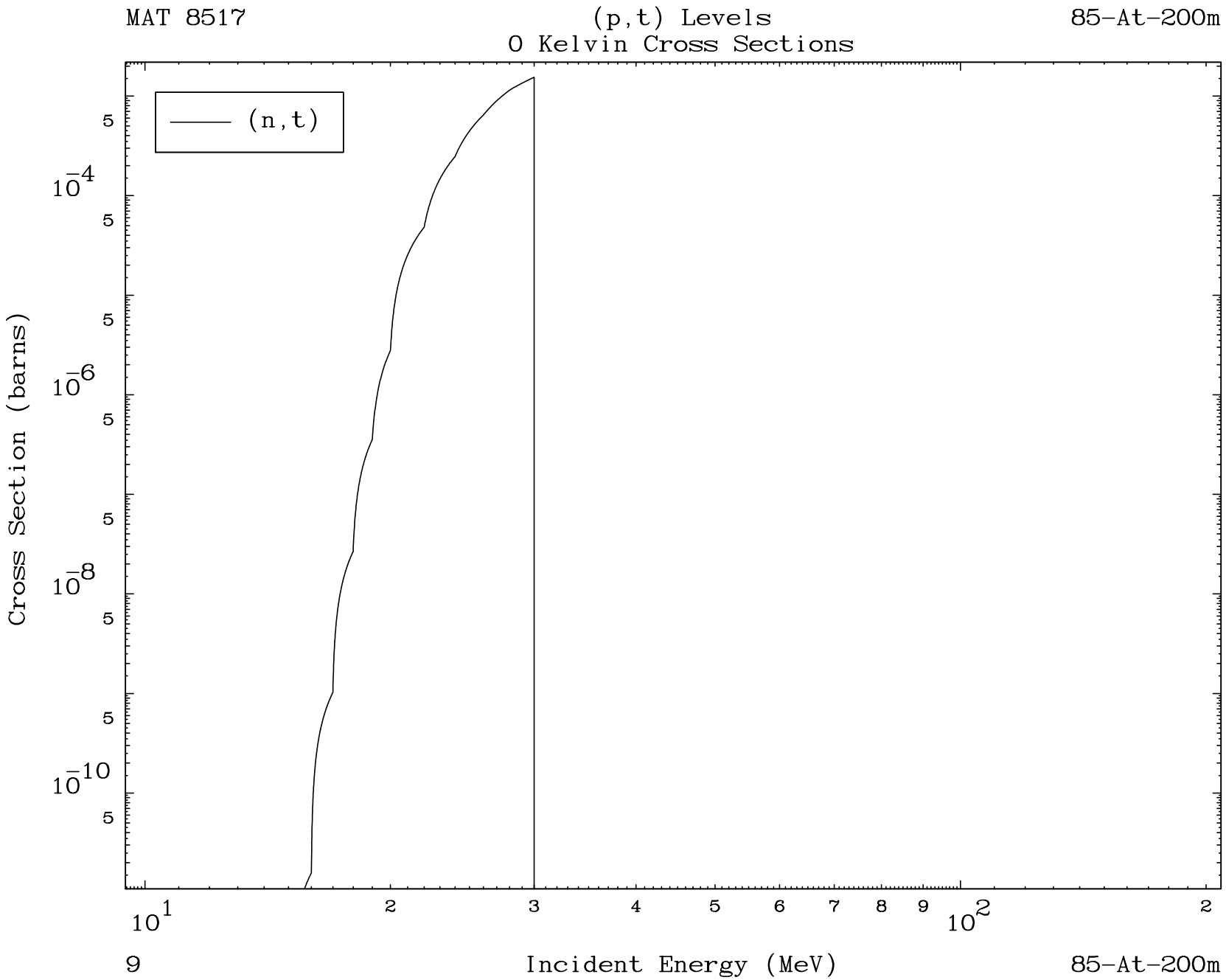

MAT 8517
Proton Neutron Absorption
0 Kelvin Cross Sections
85-At-200m
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
85-At-200m

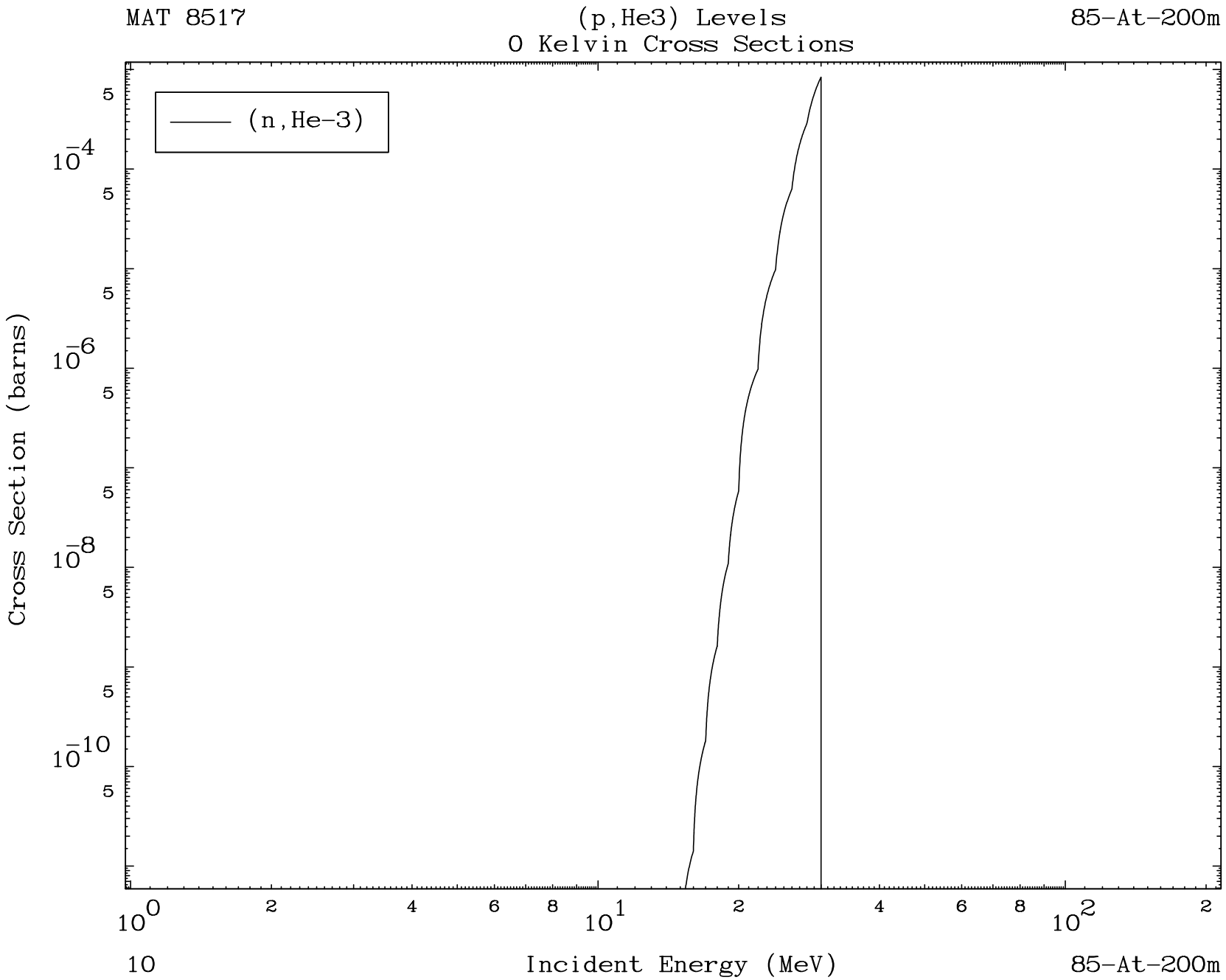

MAT 8517
Proton Charged Particle
0 Kelvin Cross Sections
85-At-200m
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
85-At-200m
5

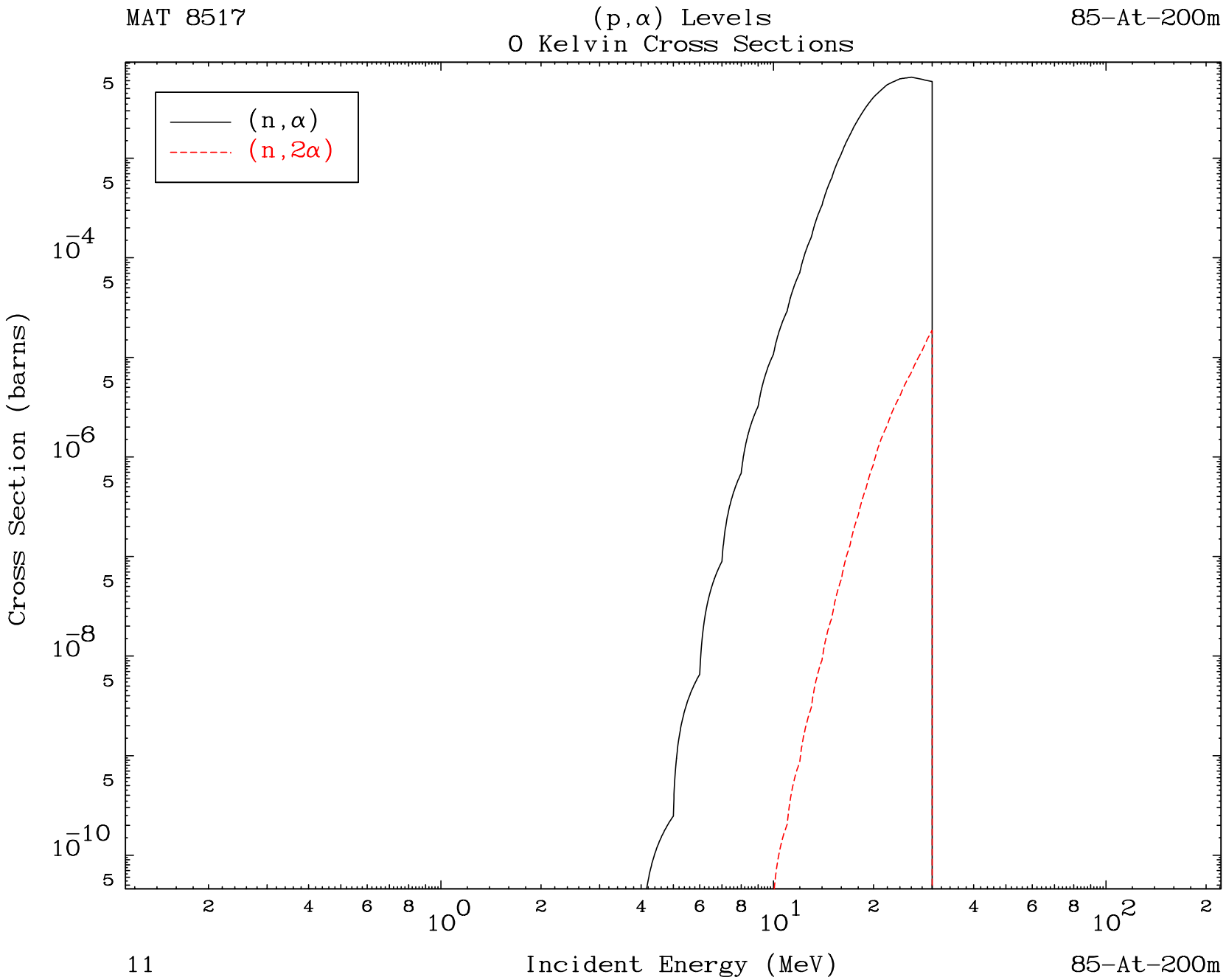

MAT 8517
Proton Charged Particle
0 Kelvin Cross Sections
85-At-200m
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
85-At-200m

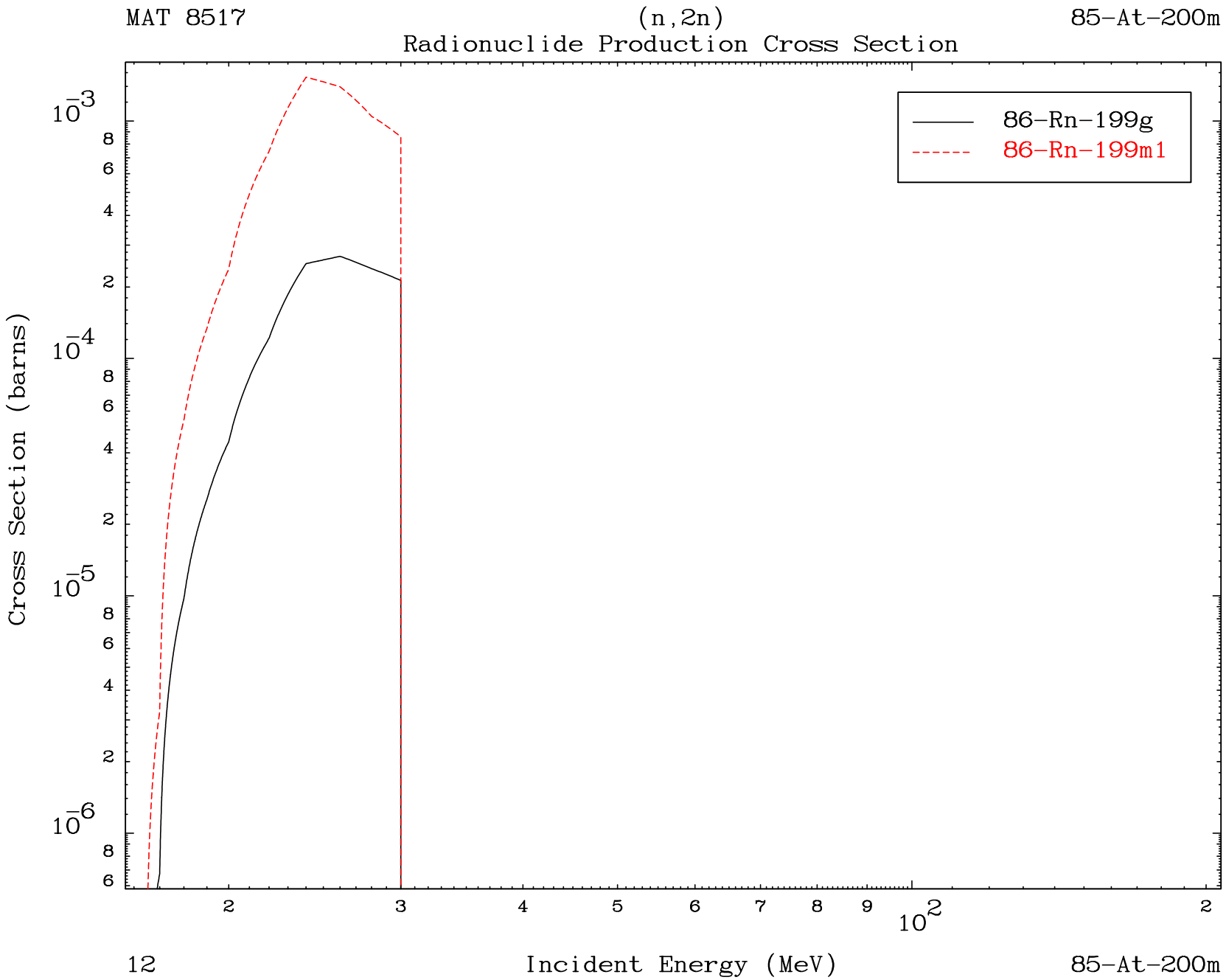

MAT 8517
(p,p) Levels
85-At-200m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
101
102
2
4
6
8
Incident Energy (MeV)
7
85-At-200m

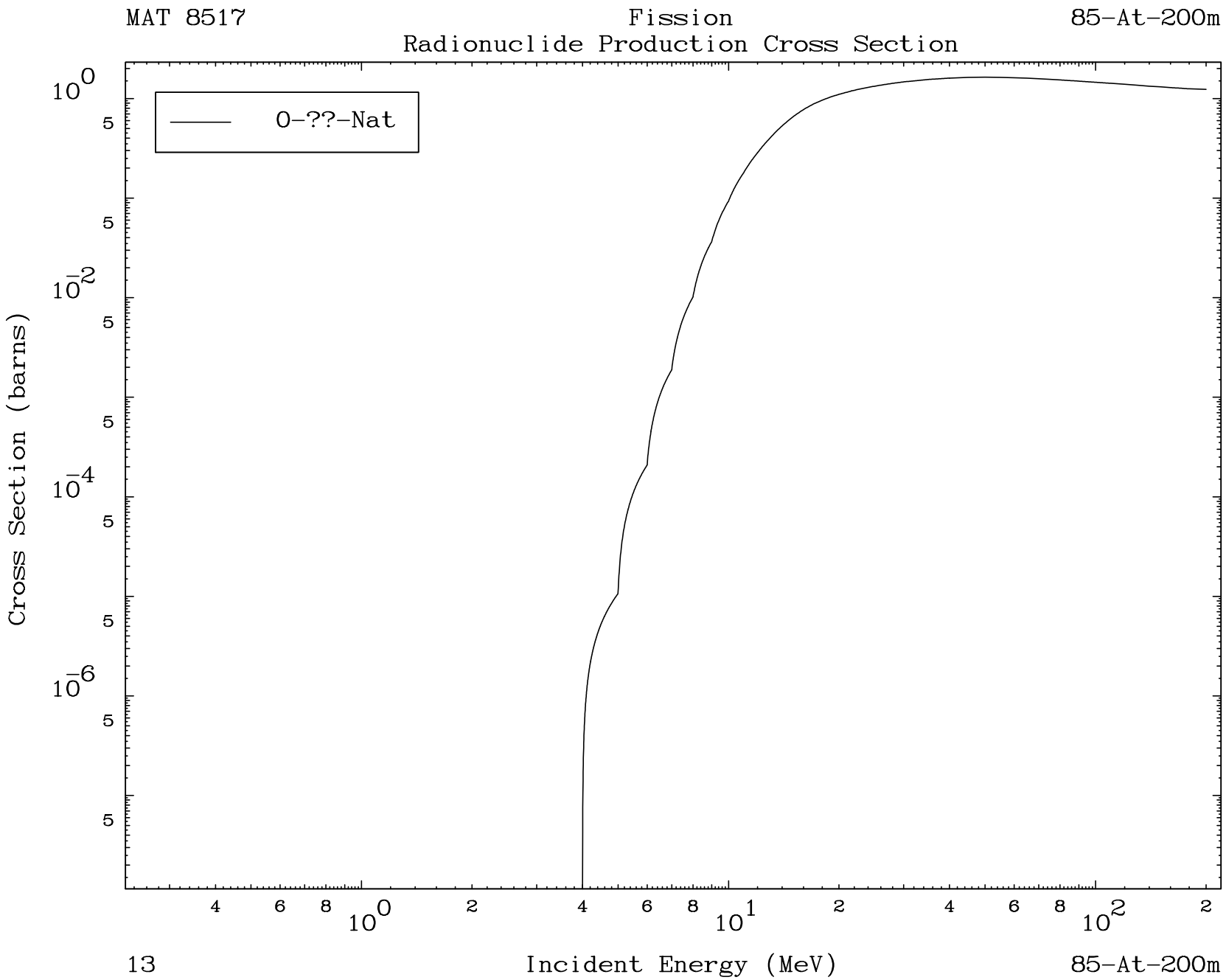

MAT 8517
(p,d) Levels
85-At-200m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
85-At-200m

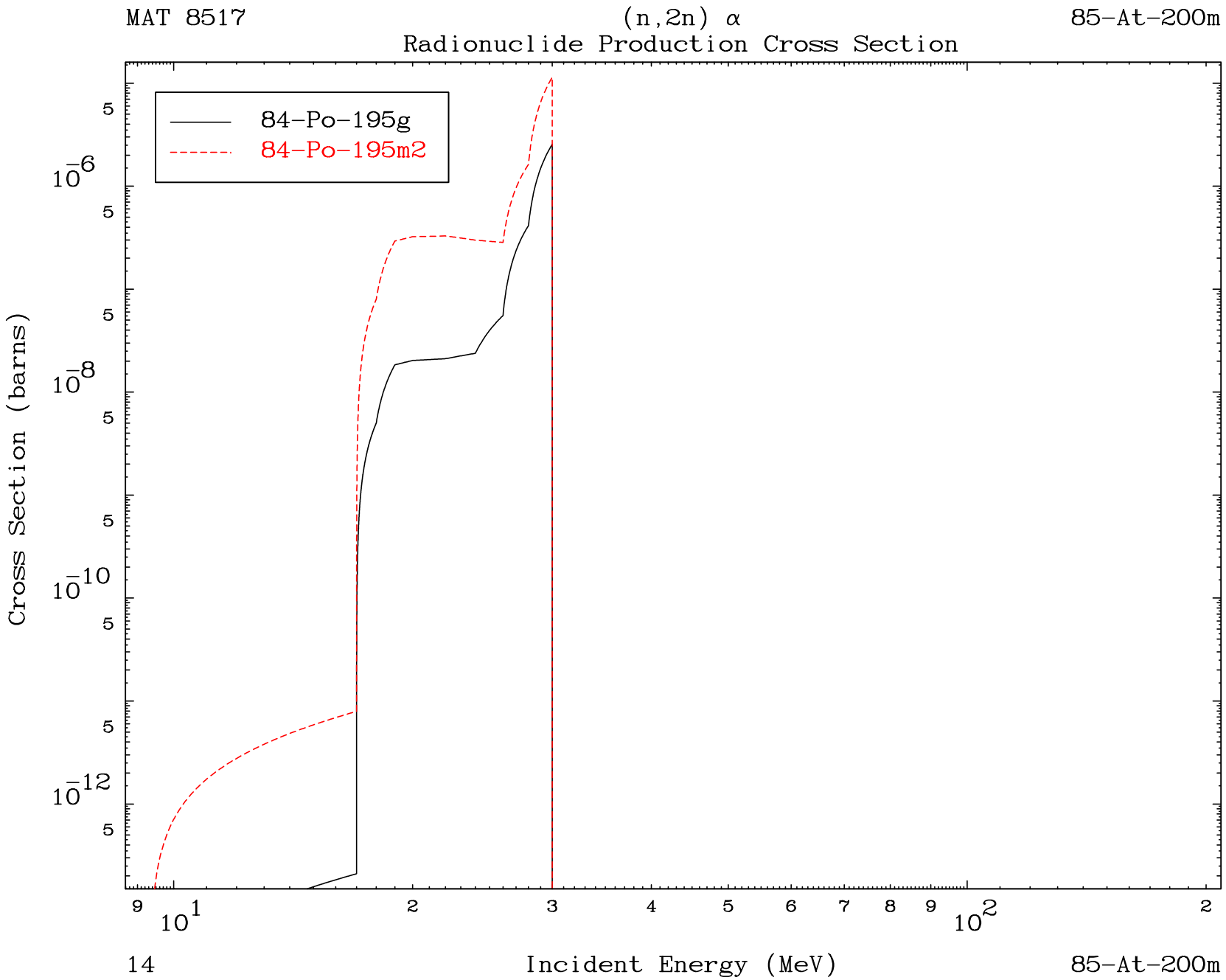

MAT 8517
(p,t) Levels
85-At-200m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
9
85-At-200m

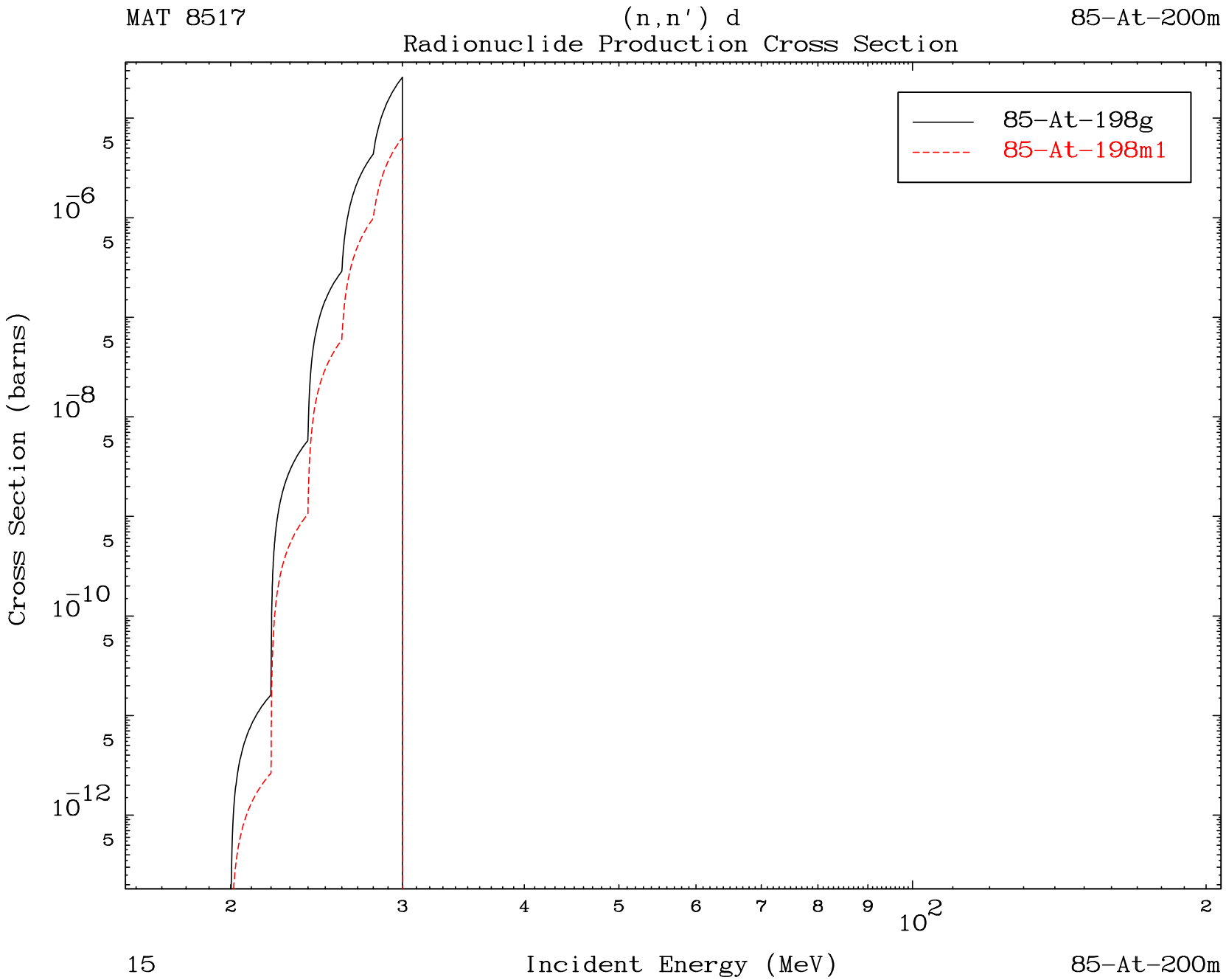

MAT 8517
(p,He3) Levels
85-At-200m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
85-At-200m

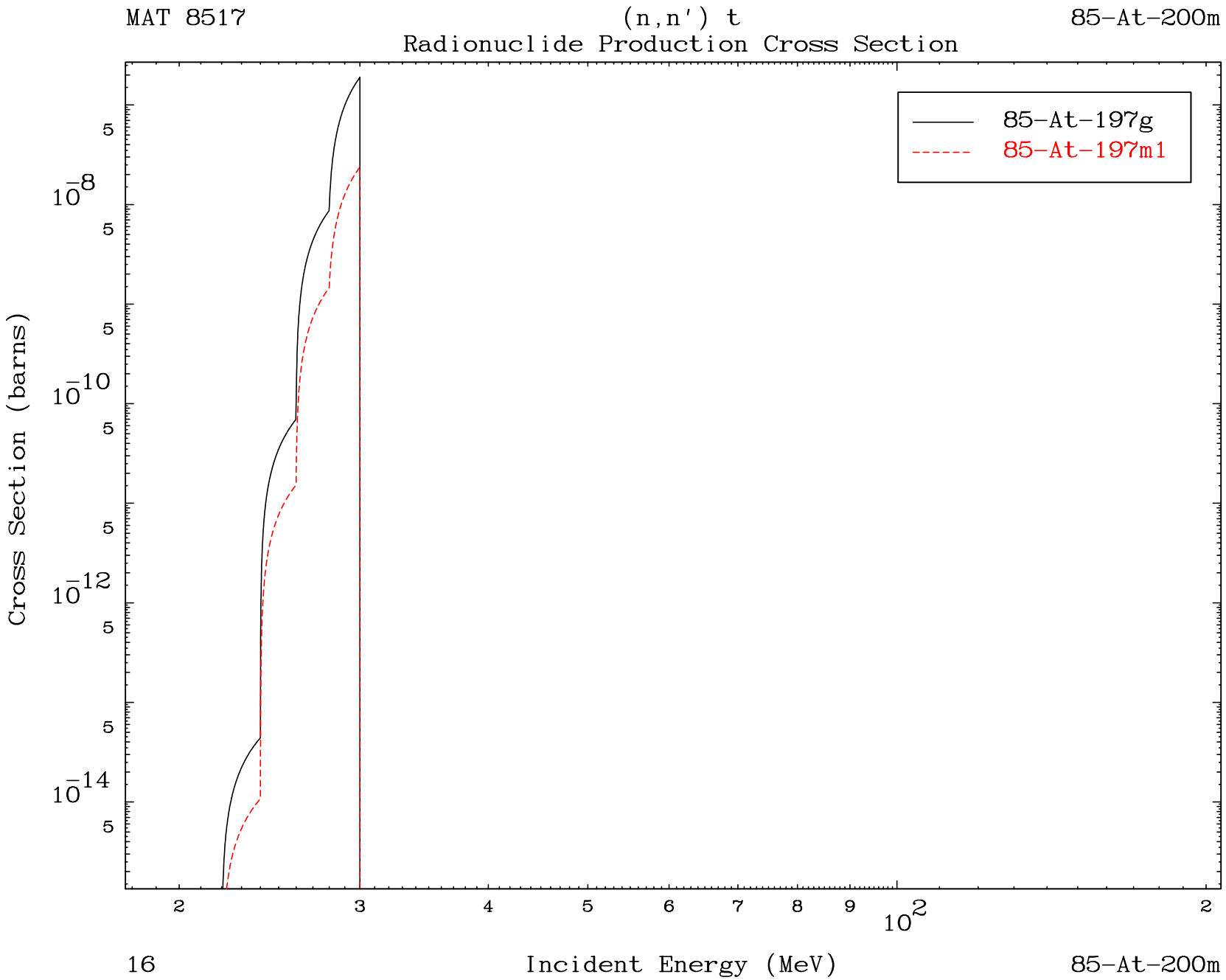

MAT 8517
(p,α) Levels
85-At-200m
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
11
85-At-200m

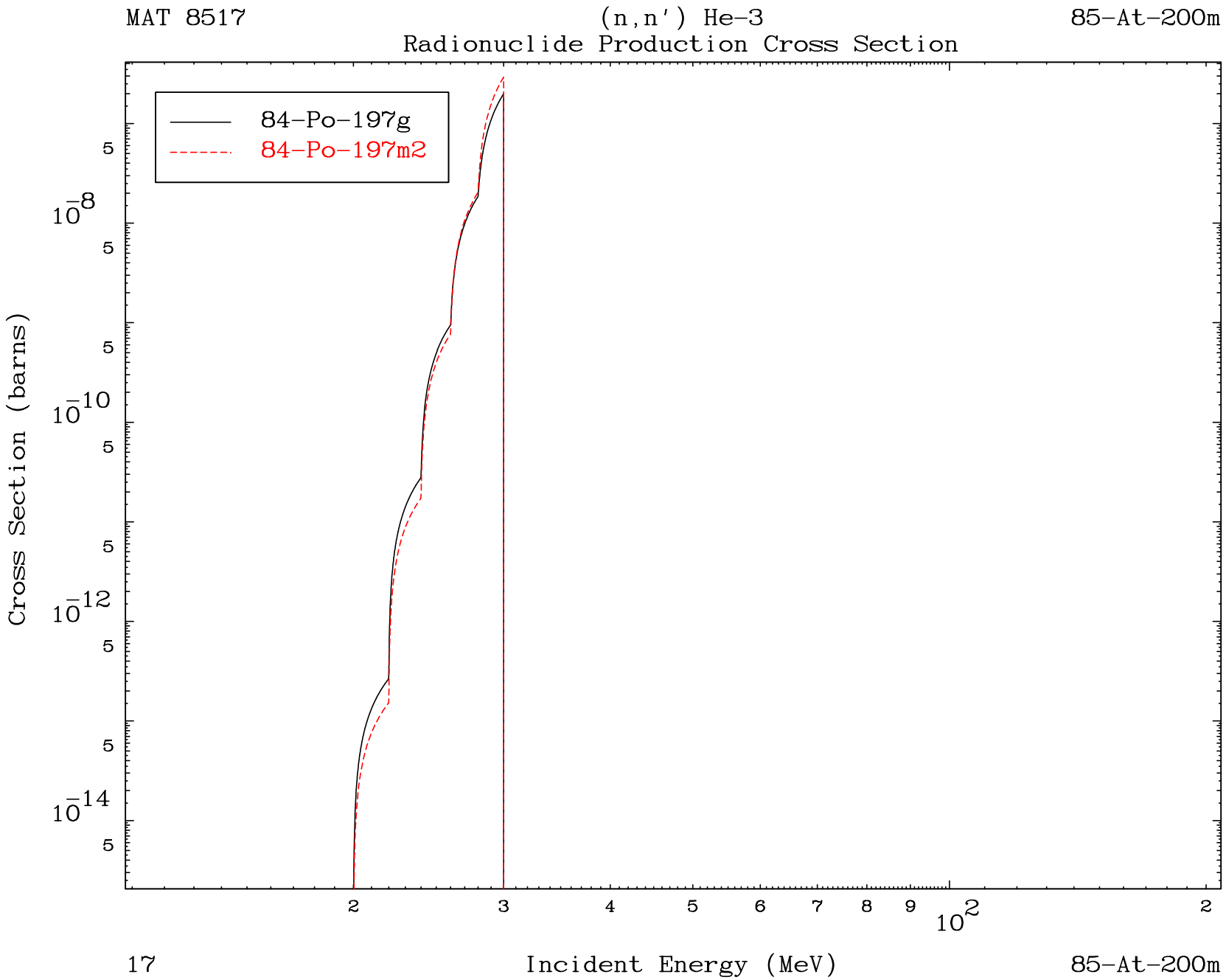

MAT 8517
(n,2n)
85-At-200m
Radionuclide Production Cross Section
86-Rn-199g
86-Rn-199m1
Cross Section (barns)
Incident Energy (MeV)
12
85-At-200m

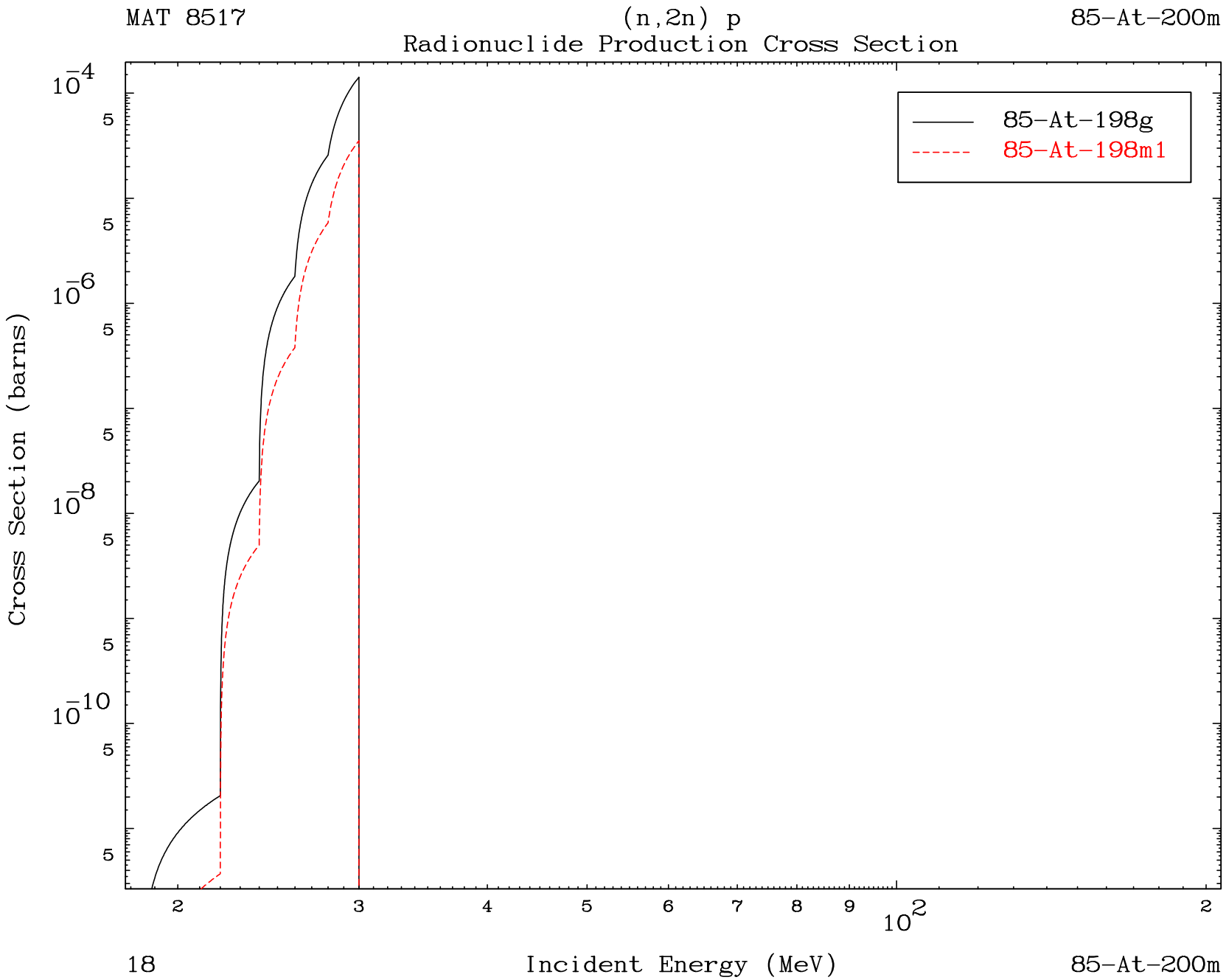

MAT 8517
Fission
85-At-200m
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
13
85-At-200m

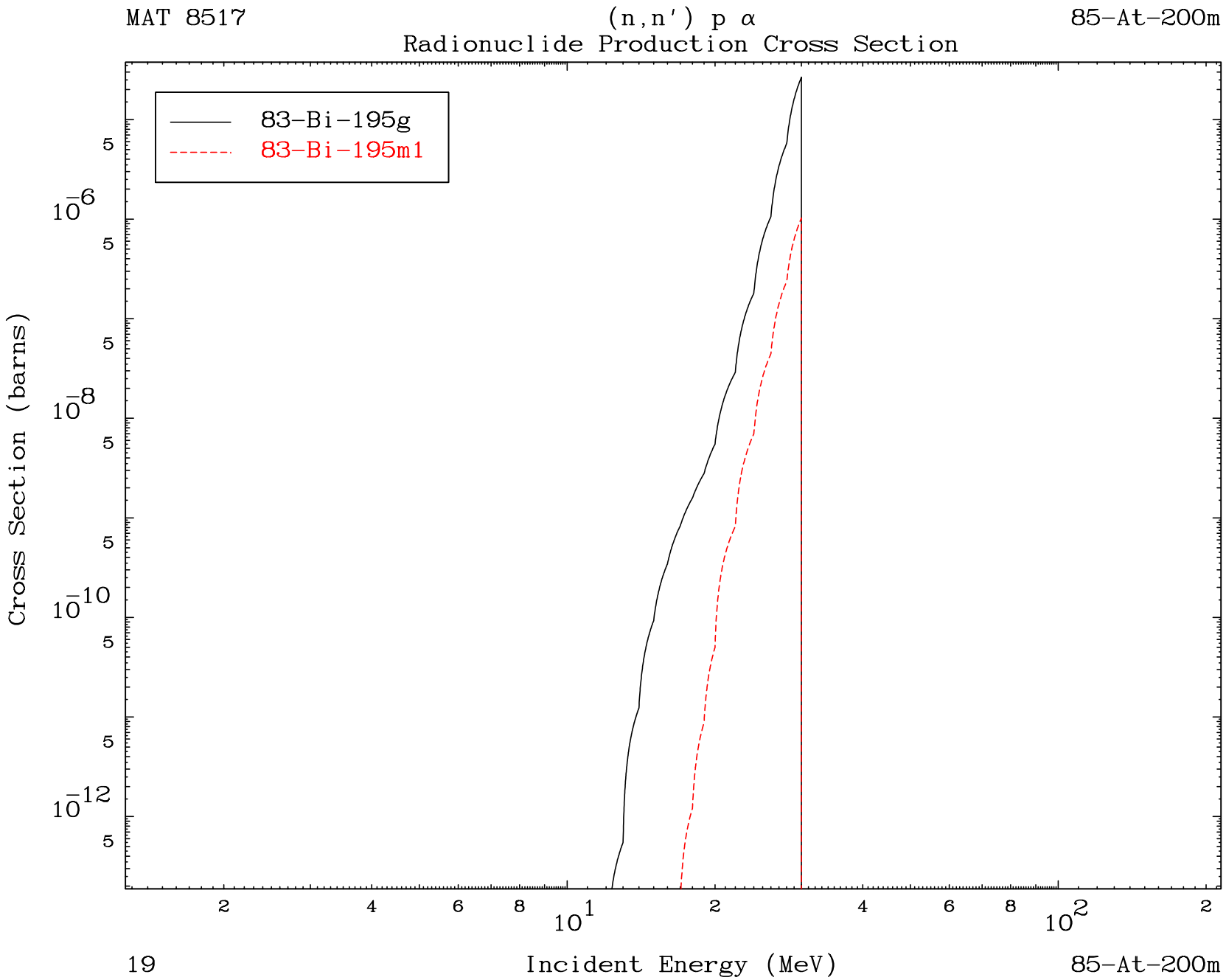

MAT 8517
(n,2n) α
85-At-200m
Radionuclide Production Cross Section
84-Po-195g
84-Po-195m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
85-At-200m

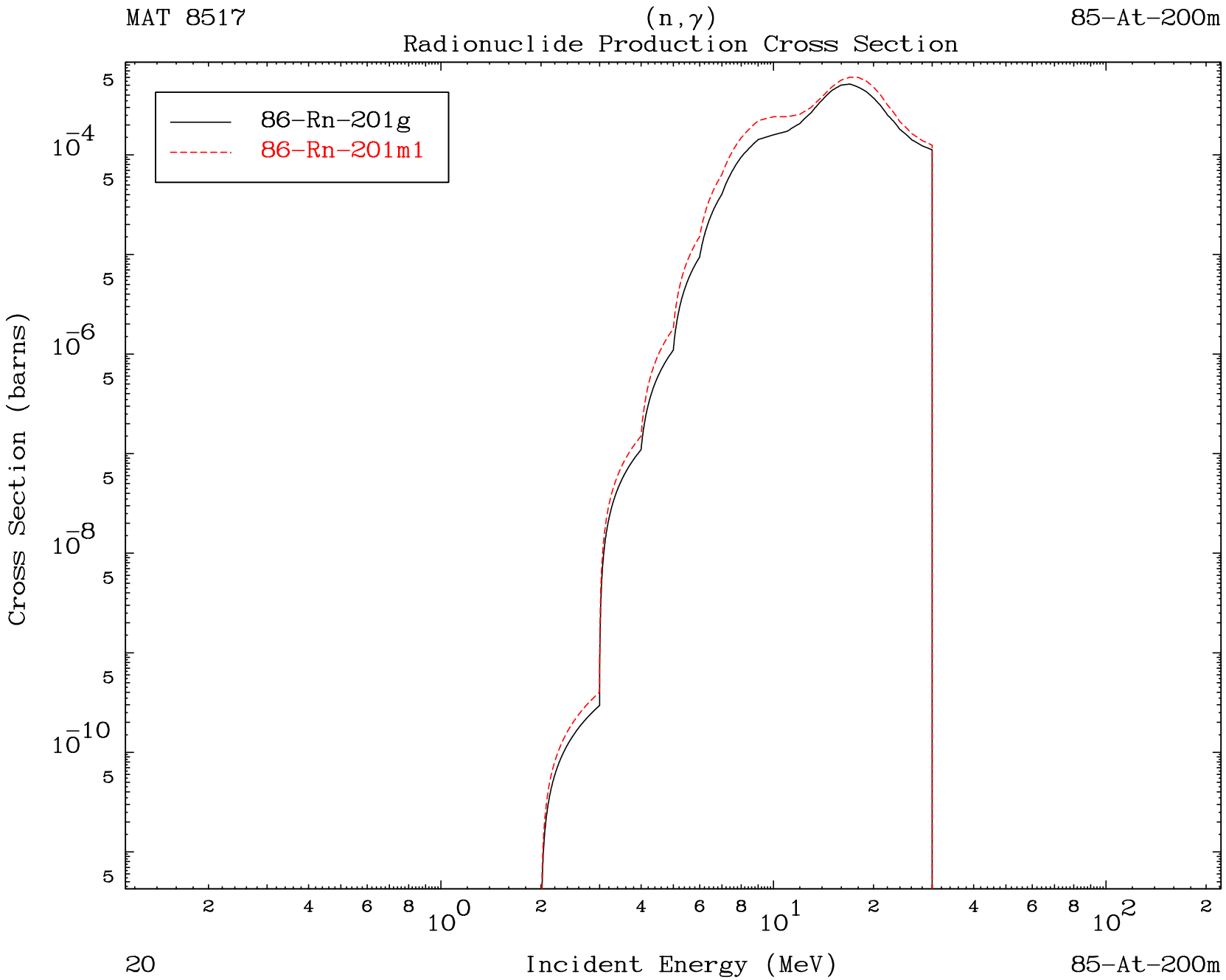

MAT 8517
(n,n') d
85-At-200m
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
85-At-200m

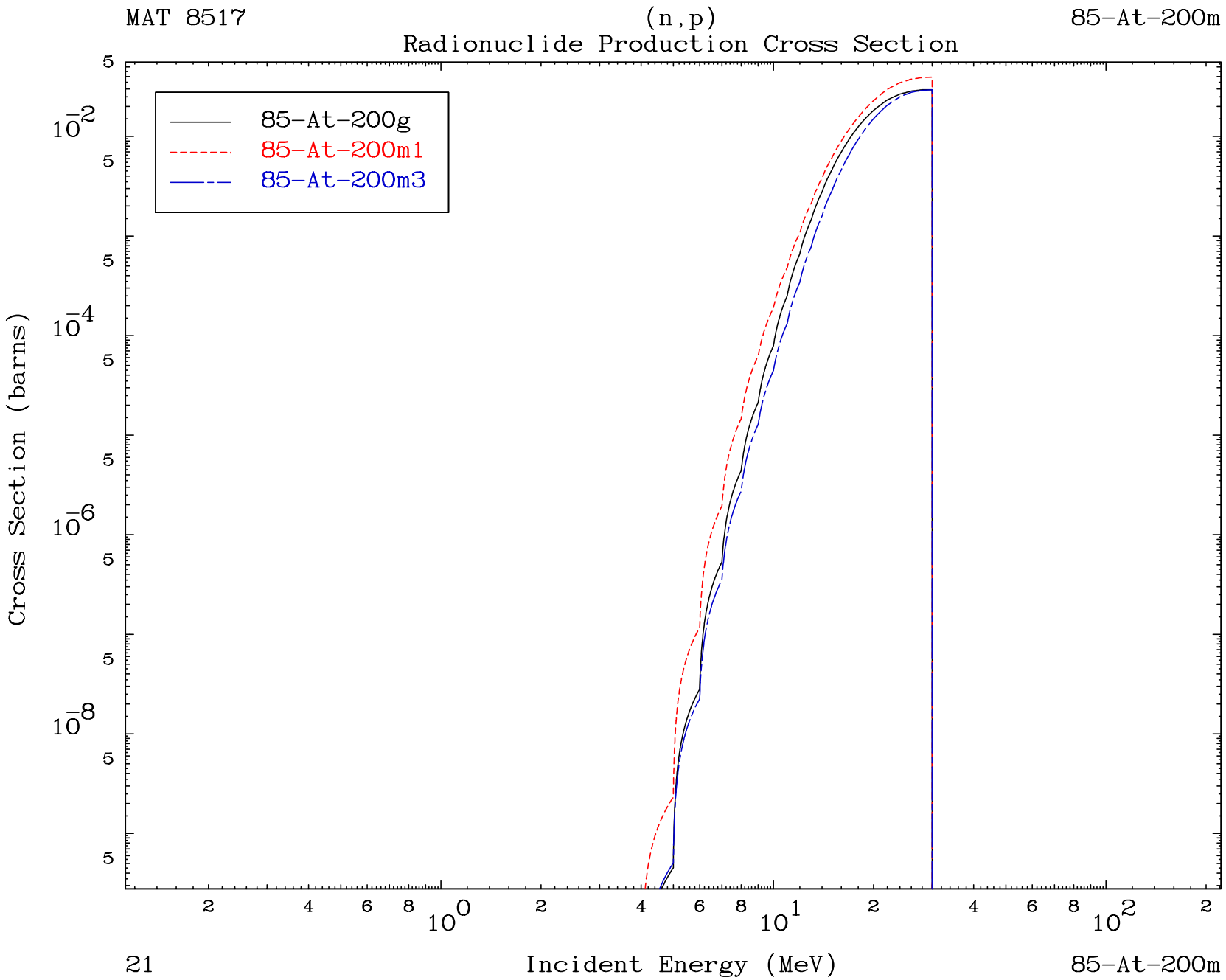

MAT 8517
(n,n') t
85-At-200m
Radionuclide Production Cross Section
85-At-197g
85-At-197m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
85-At-200m

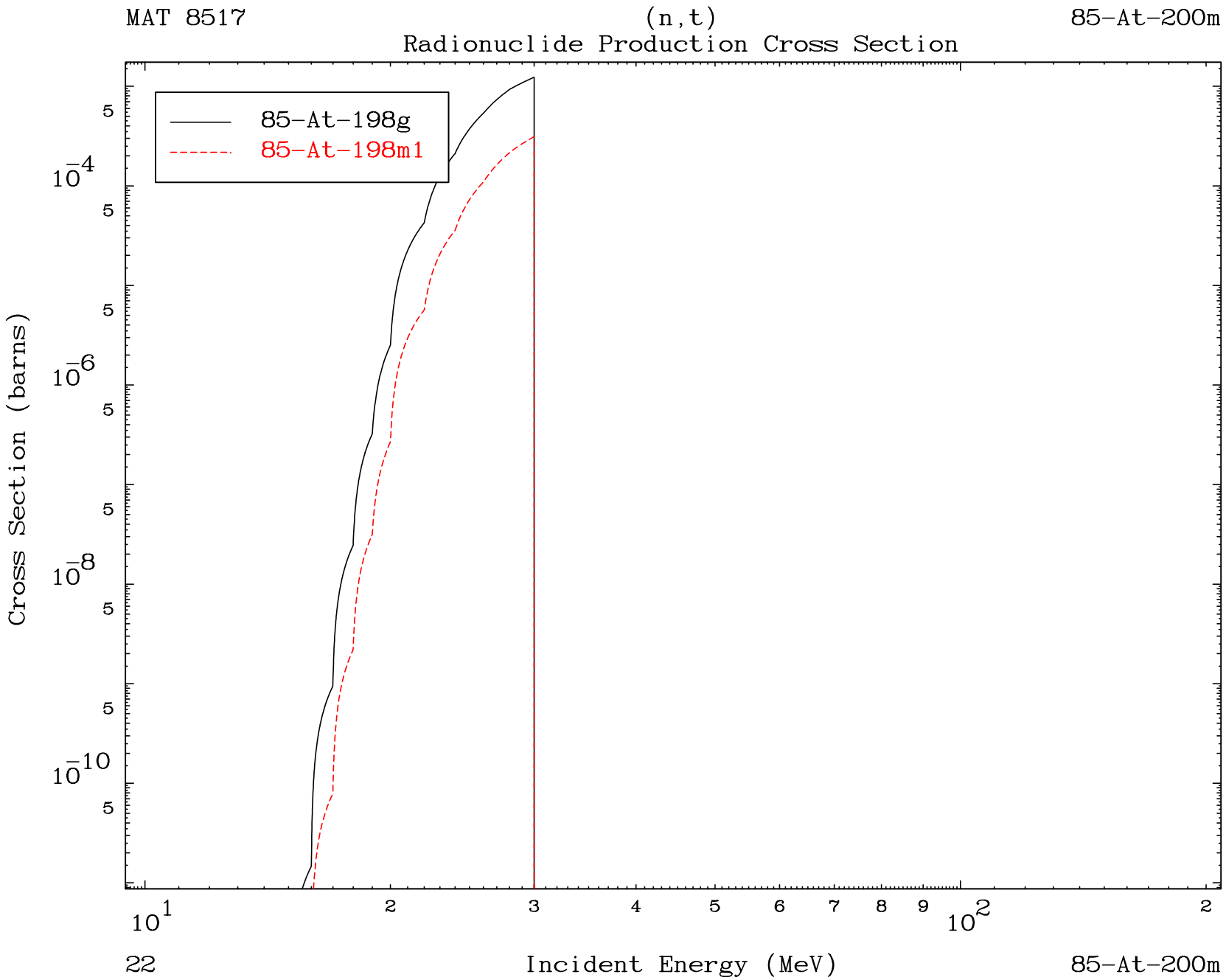

MAT 8517
(n,n') He-3
85-At-200m
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
85-At-200m

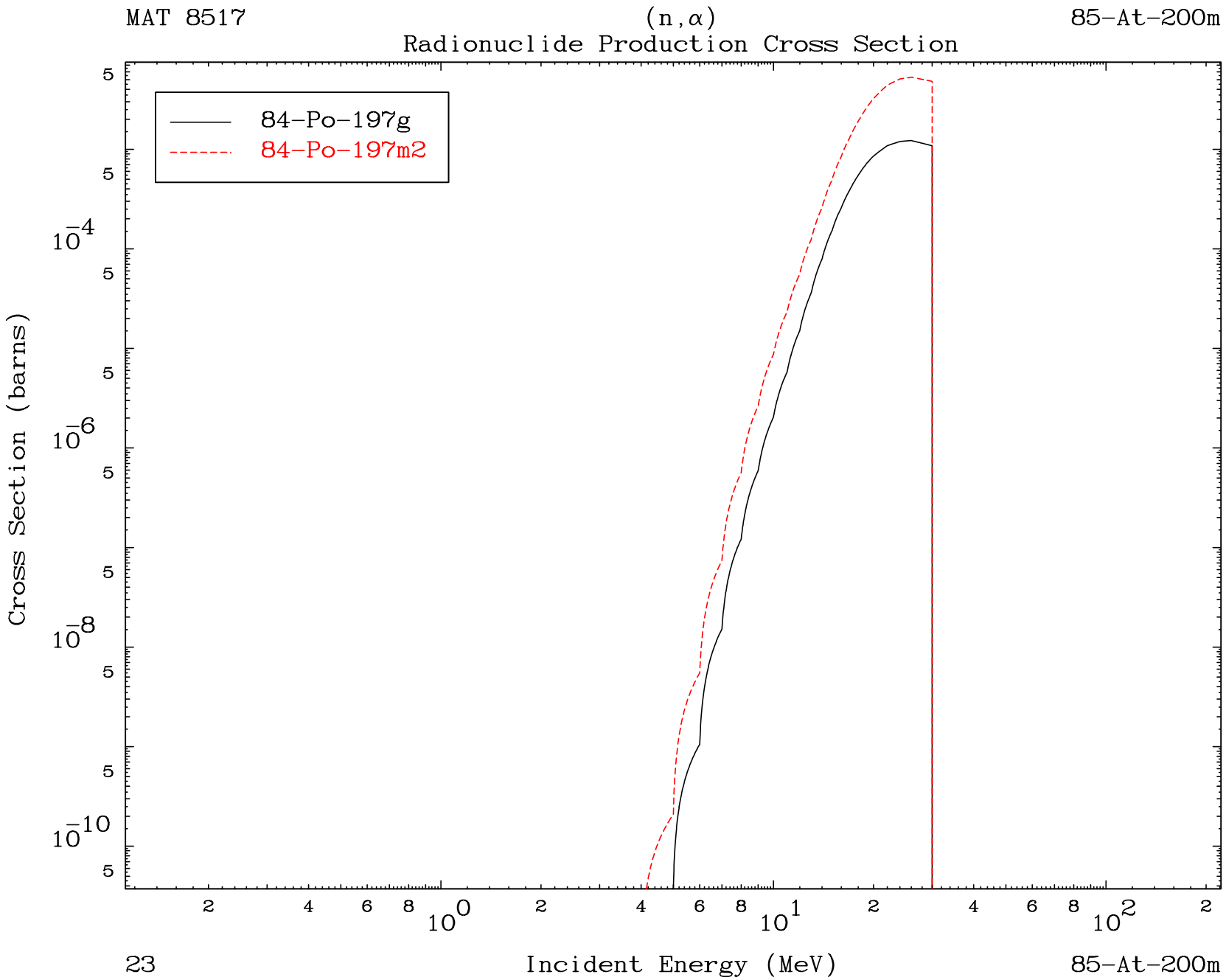

MAT 8517
(n,2n) p
85-At-200m
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
Incident Energy (MeV)
18
85-At-200m

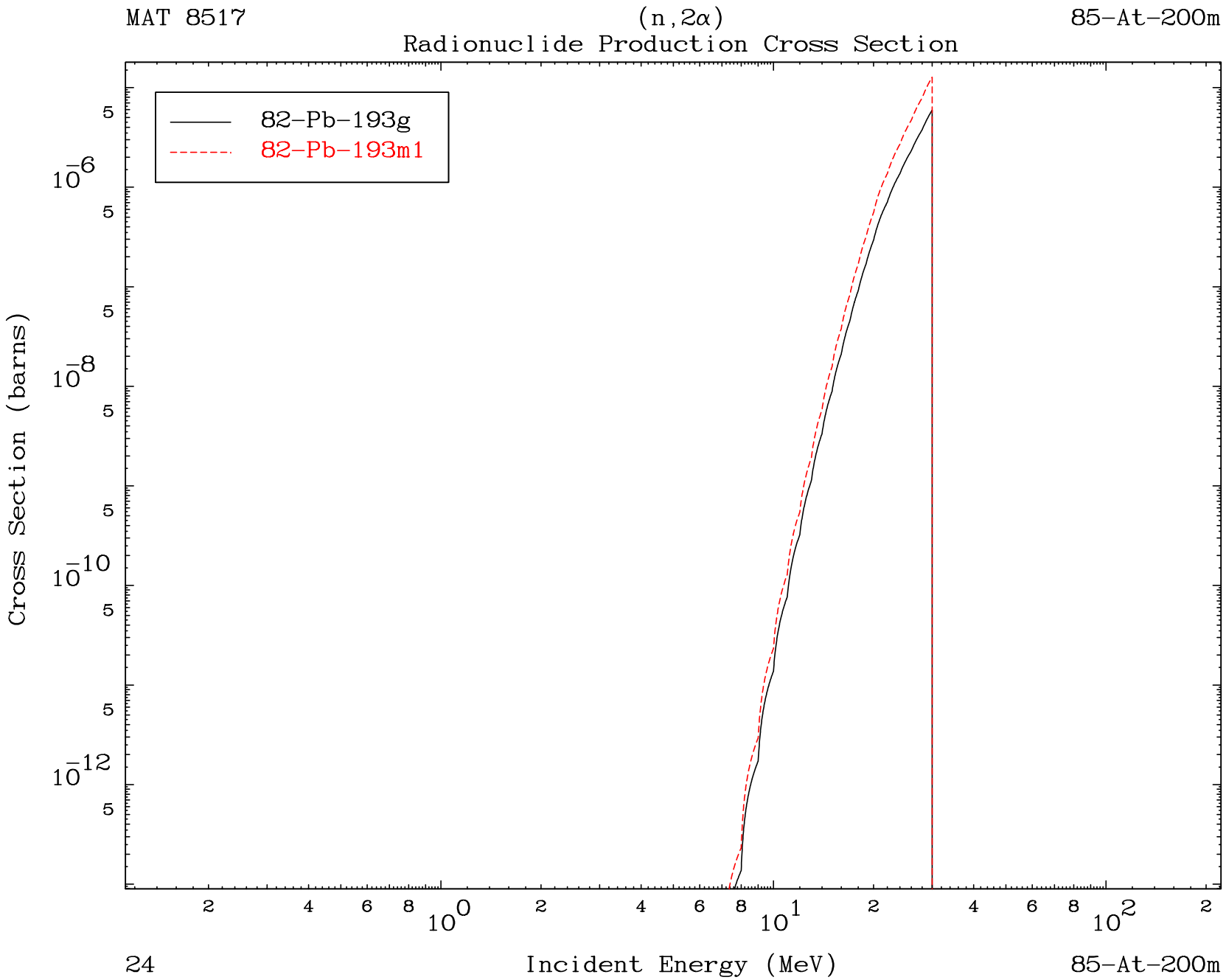

MAT 8517
(n,n') p α
85-At-200m
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
4
6
8
10 1
10 2
19
Incident Energy (MeV)
85-At-200m

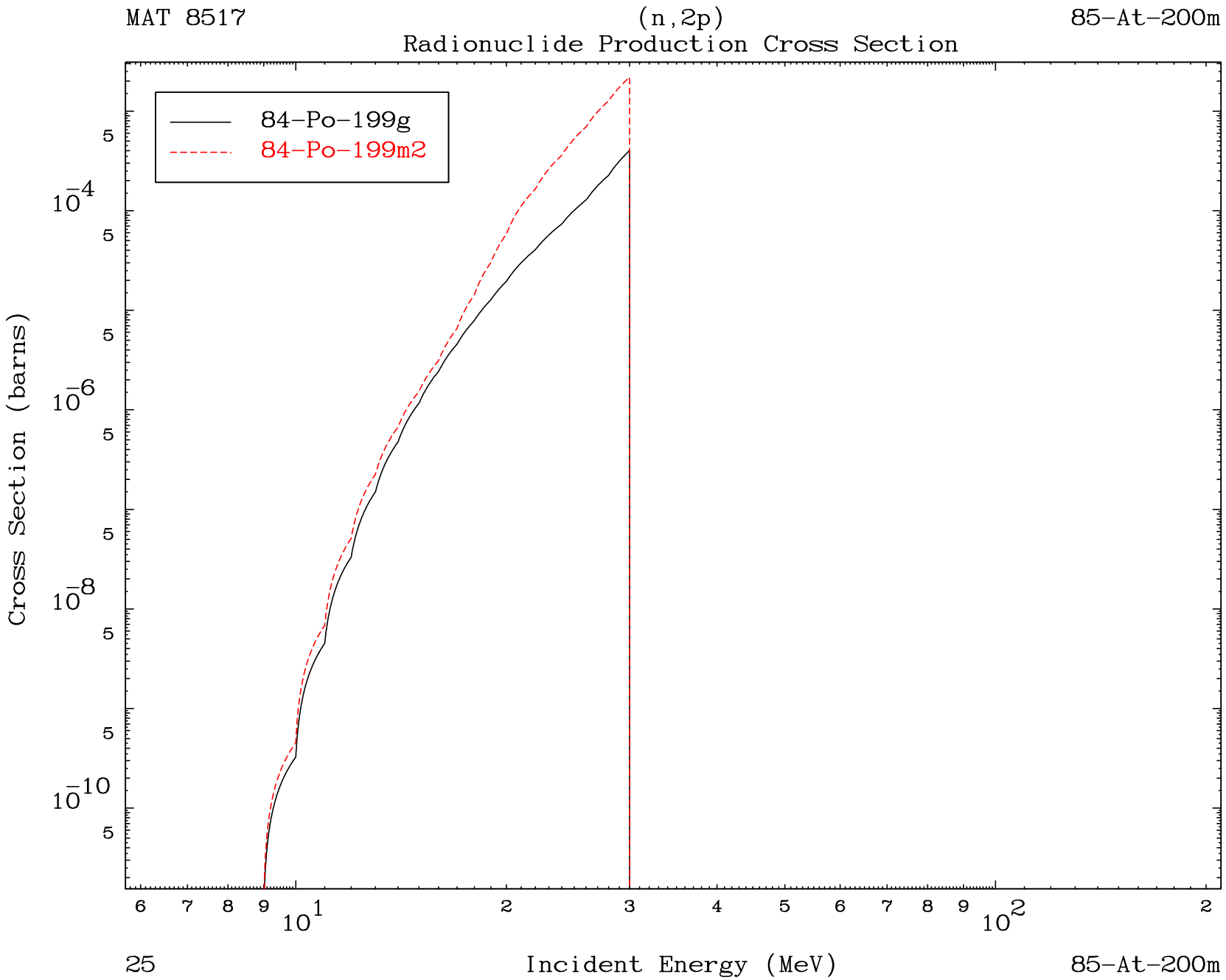

MAT 8517
(n,γ)
85-At-200m
Radionuclide Production Cross Section
86-Rn-201g
86-Rn-201m1
Cross Section (barns)
Incident Energy (MeV)
20
85-At-200m

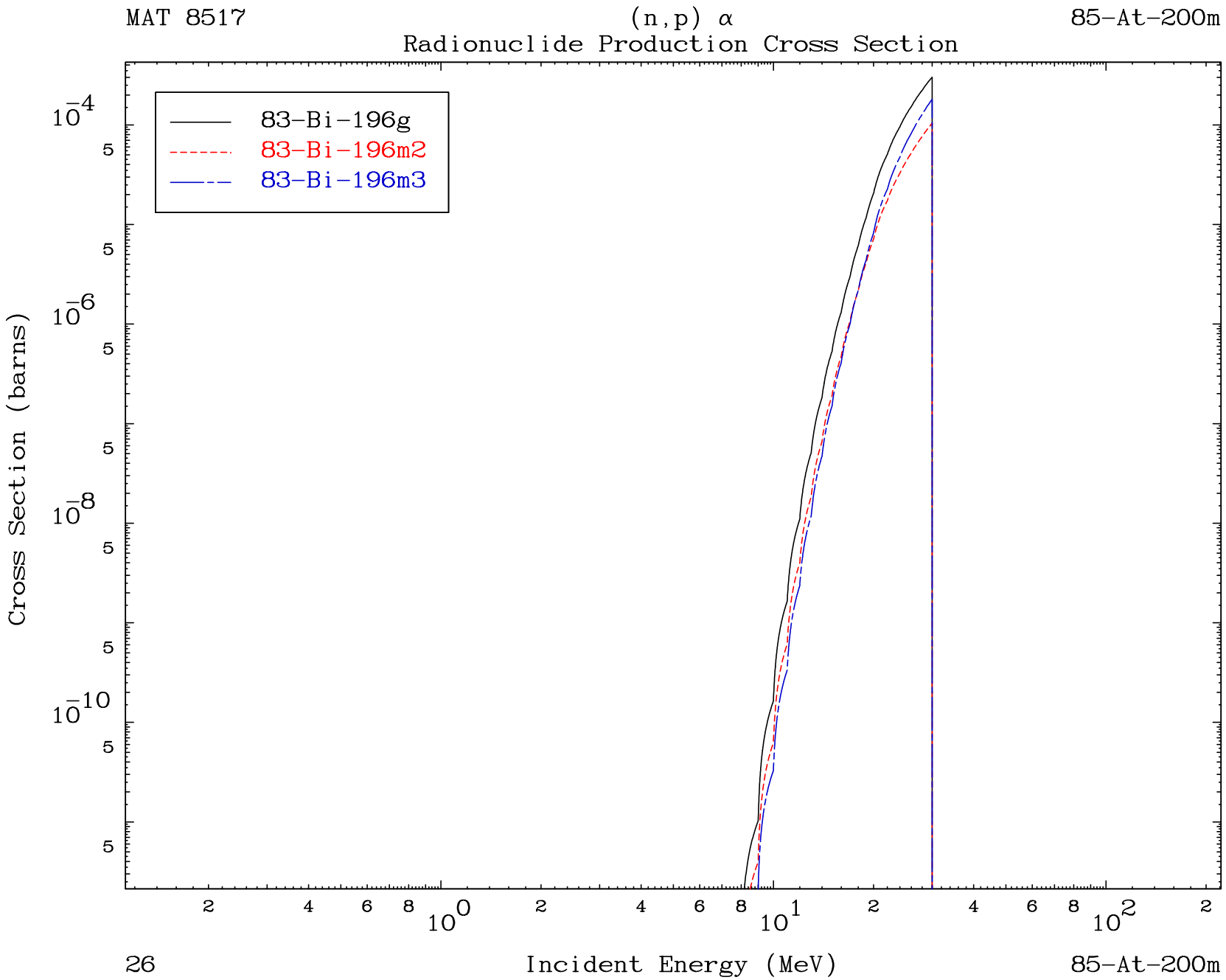

MAT 8517
(n,p)
85-At-200m
Radionuclide Production Cross Section
85-At-200g
85-At-200m1
85-At-200m3
Cross Section (barns)
Incident Energy (MeV)
21
85-At-200m

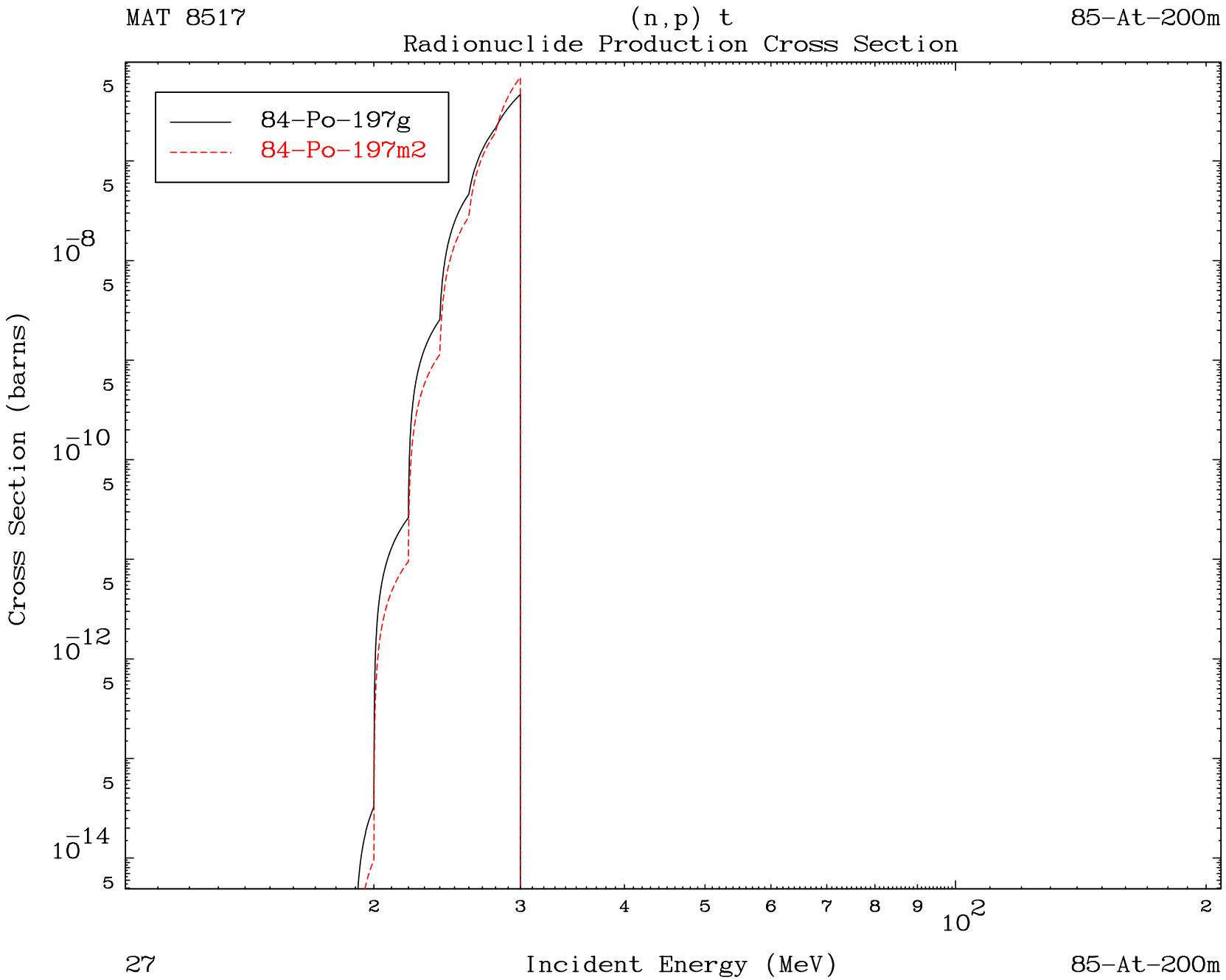

MAT 8517
(n,t)
85-At-200m
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
22
85-At-200m

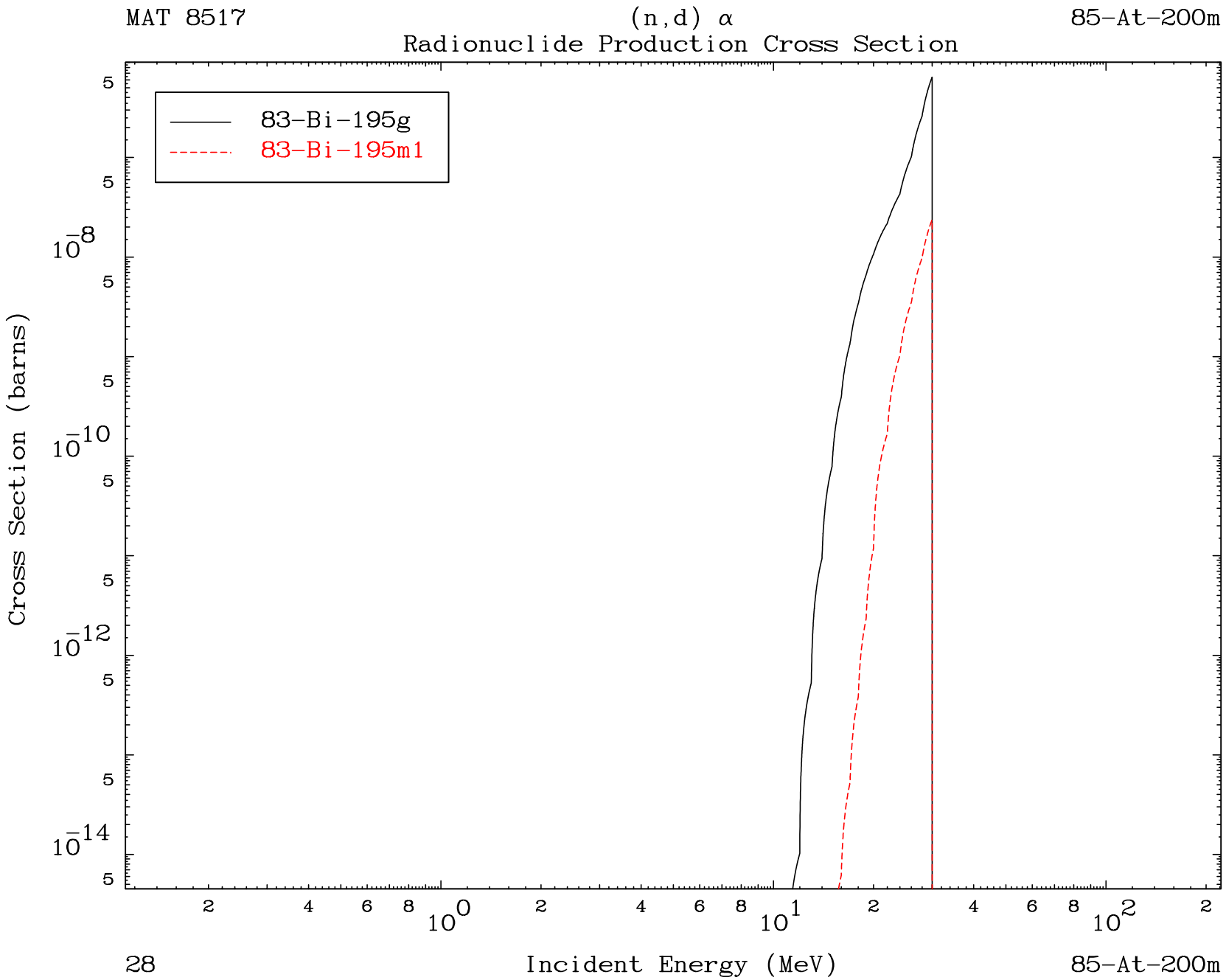

MAT 8517
(n,α)
85-At-200m
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
Incident Energy (MeV)
23
85-At-200m


MAT 8517
(n,2α)
85-At-200m
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
24
85-At-200m


MAT 8517
(n,2p)
85-At-200m
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
25
85-At-200m


MAT 8517
(n,p) α
85-At-200m
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
26
85-At-200m


MAT 8517
(n,p) t
85-At-200m
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
27
Incident Energy (MeV)
85-At-200m


MAT 8517
(n,d) α
85-At-200m
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
Incident Energy (MeV)
28
85-At-200m