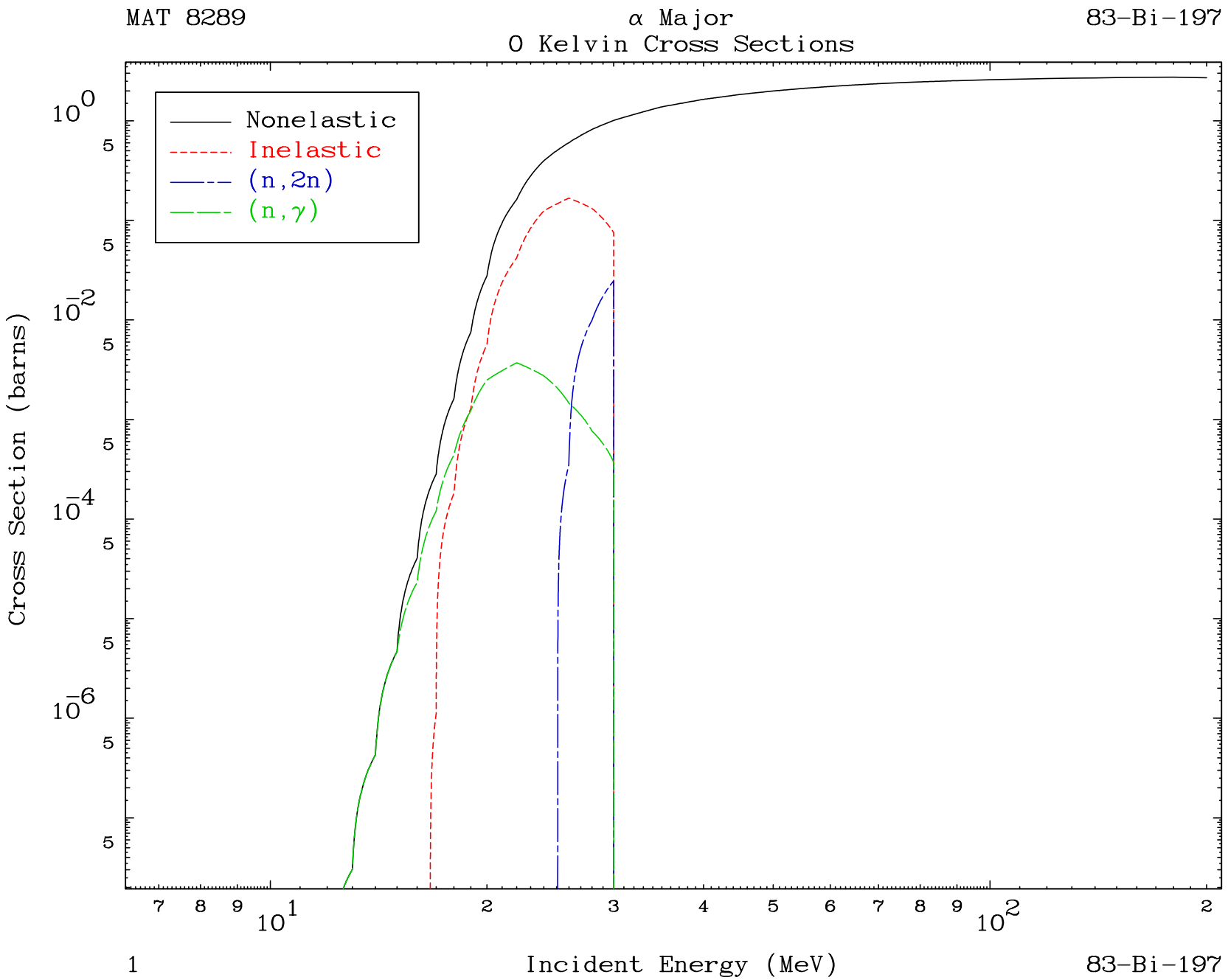
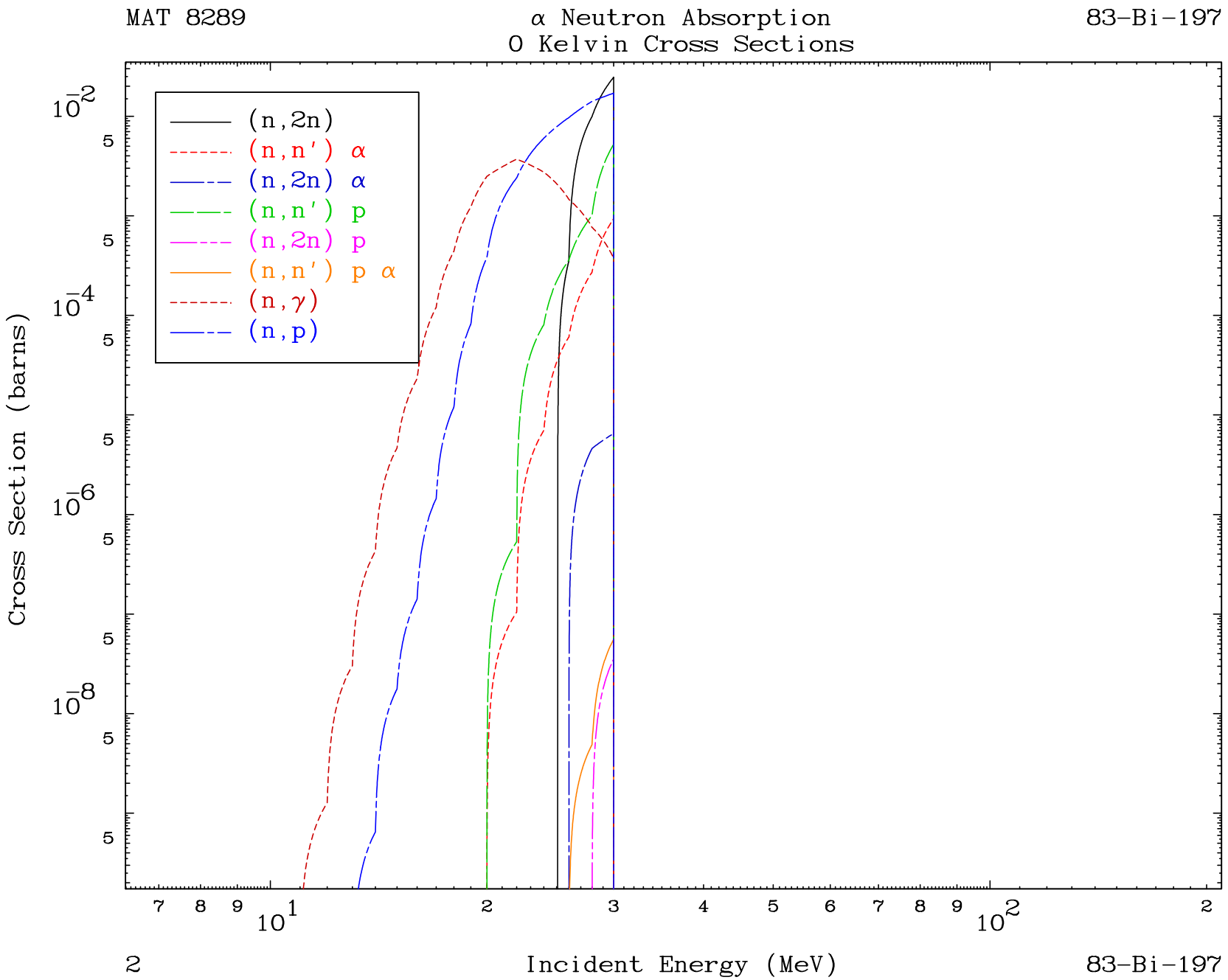
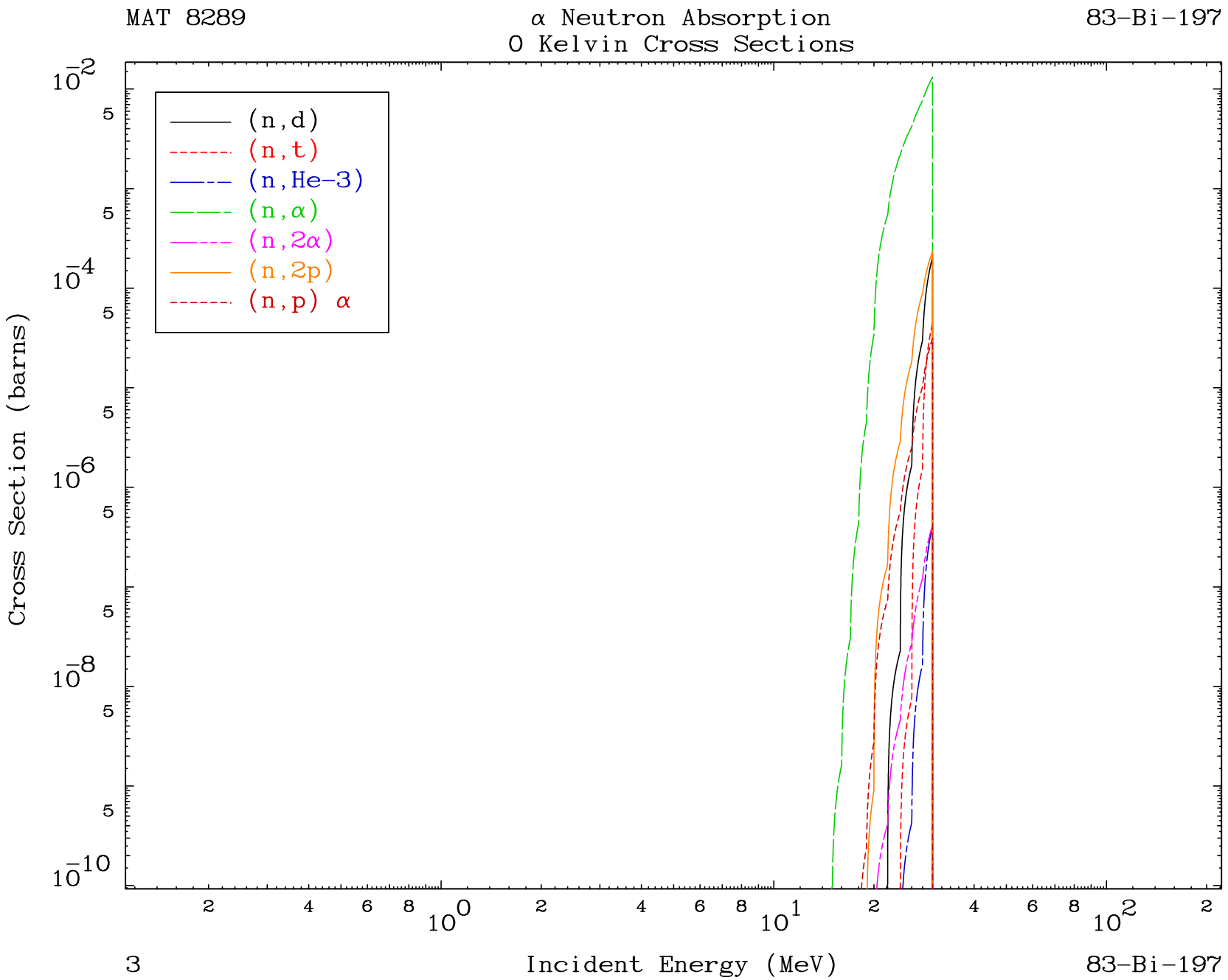
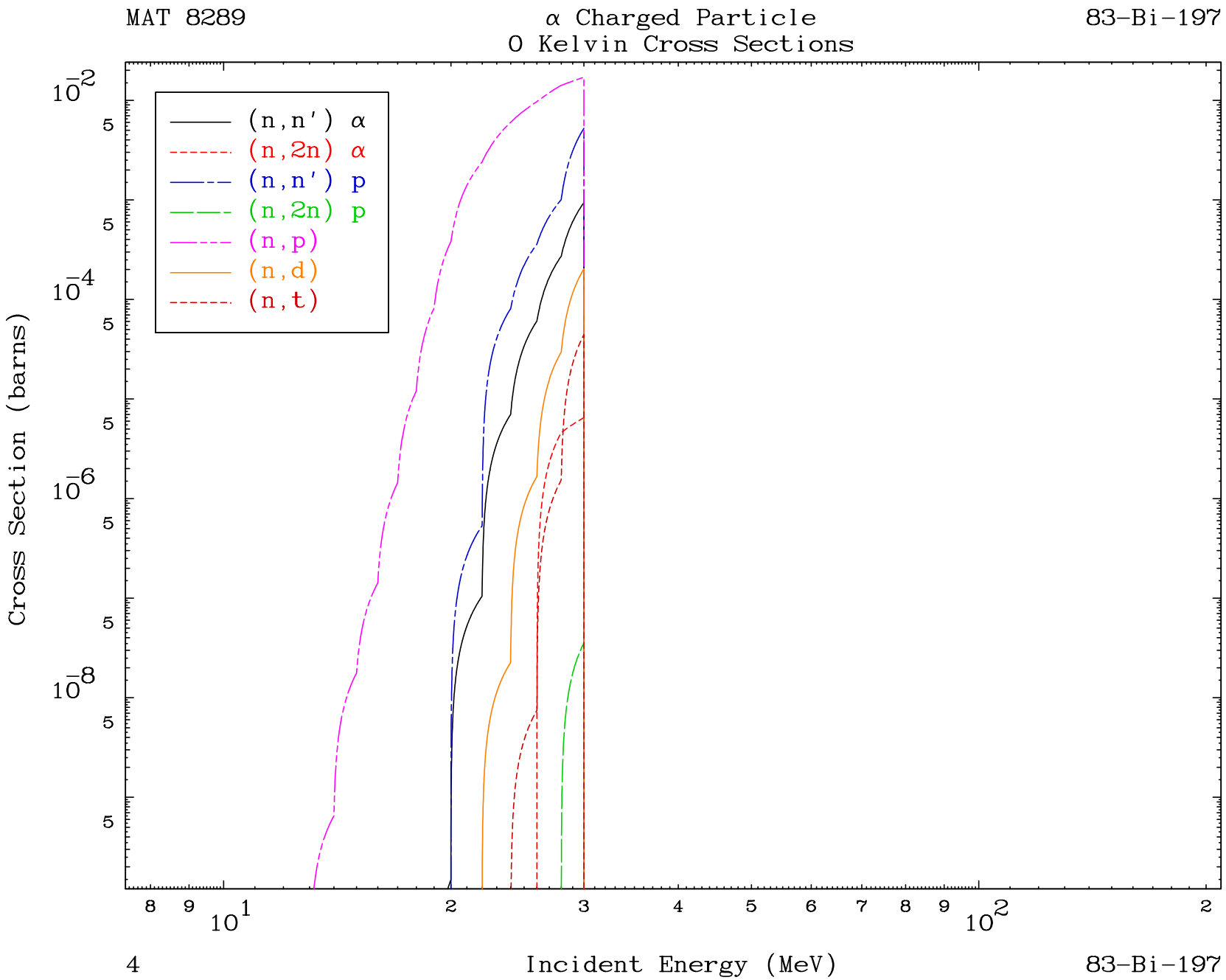
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

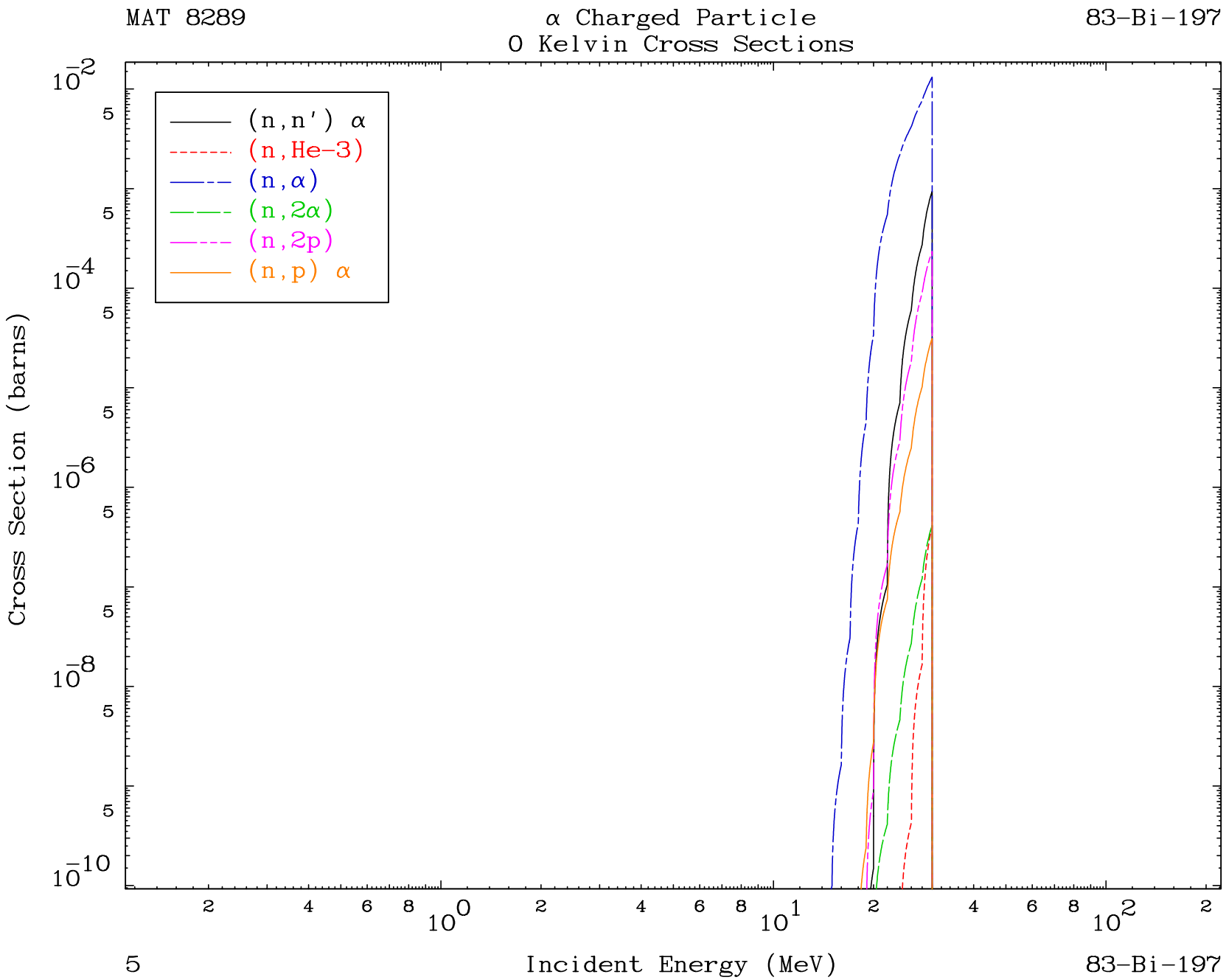
Press Mouse Button to Start

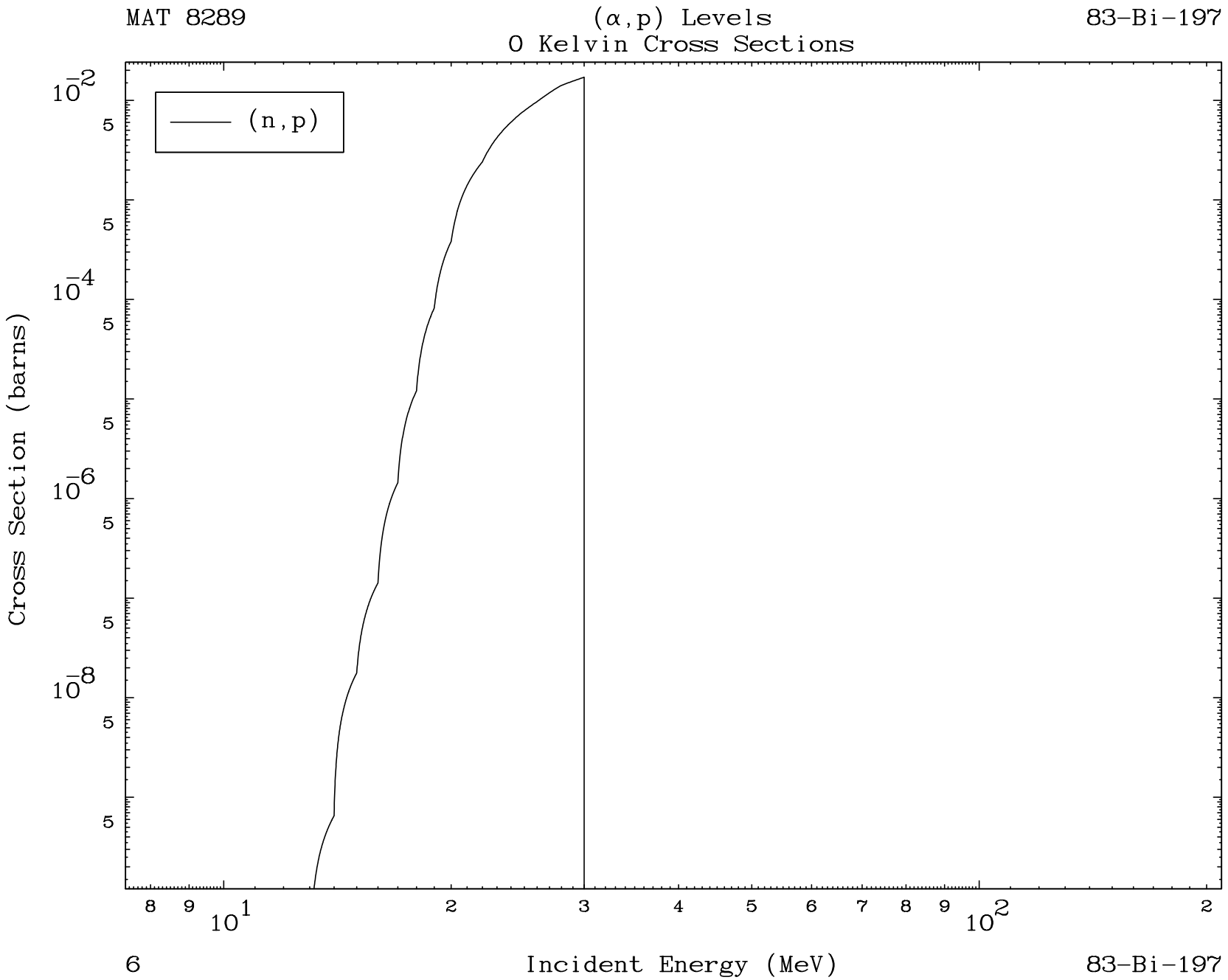

MAT 8289
α Major
83-Bi-197
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-197

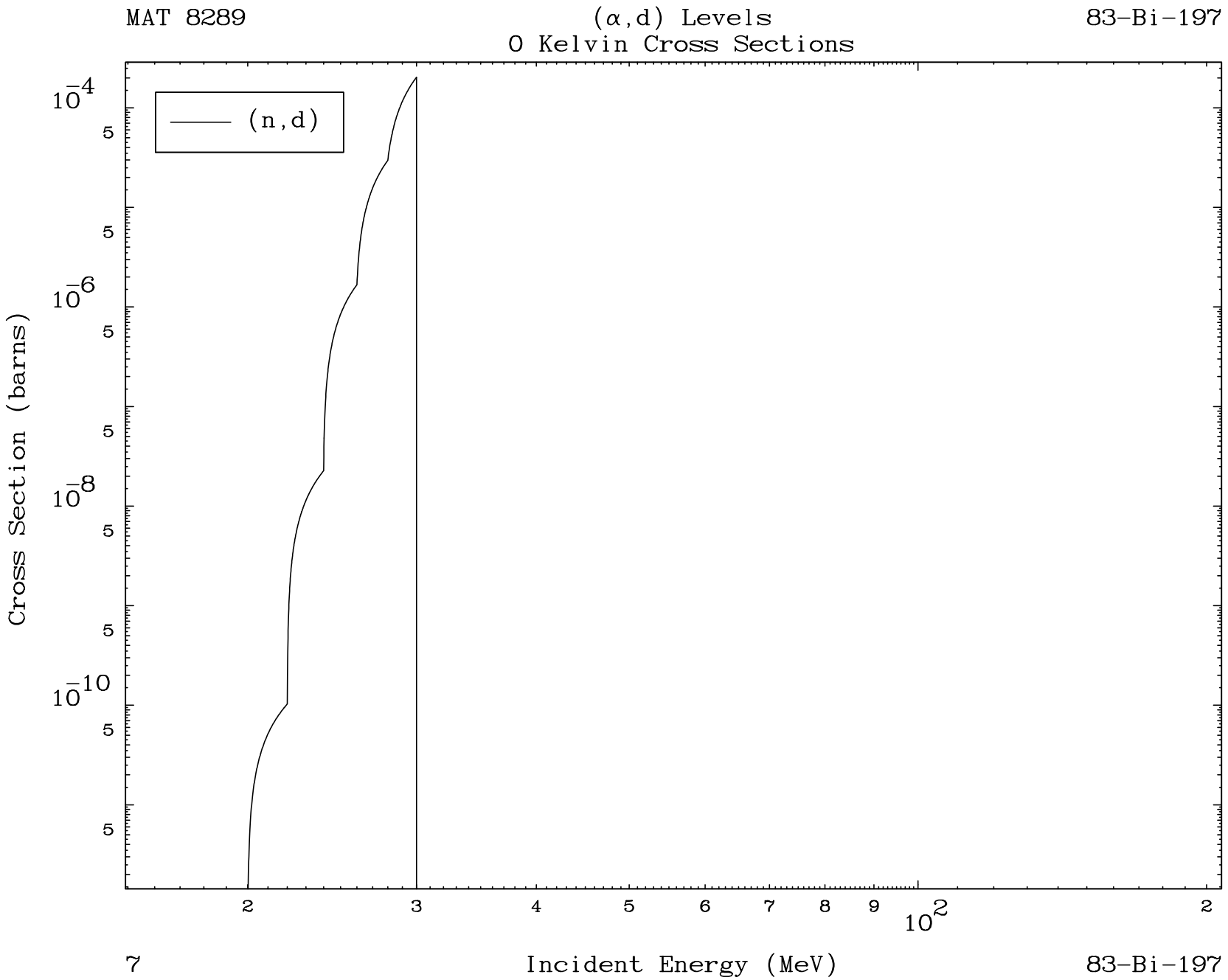

MAT 8289
α Neutron Absorption
0 Kelvin Cross Sections
83-Bi-197
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-197
2

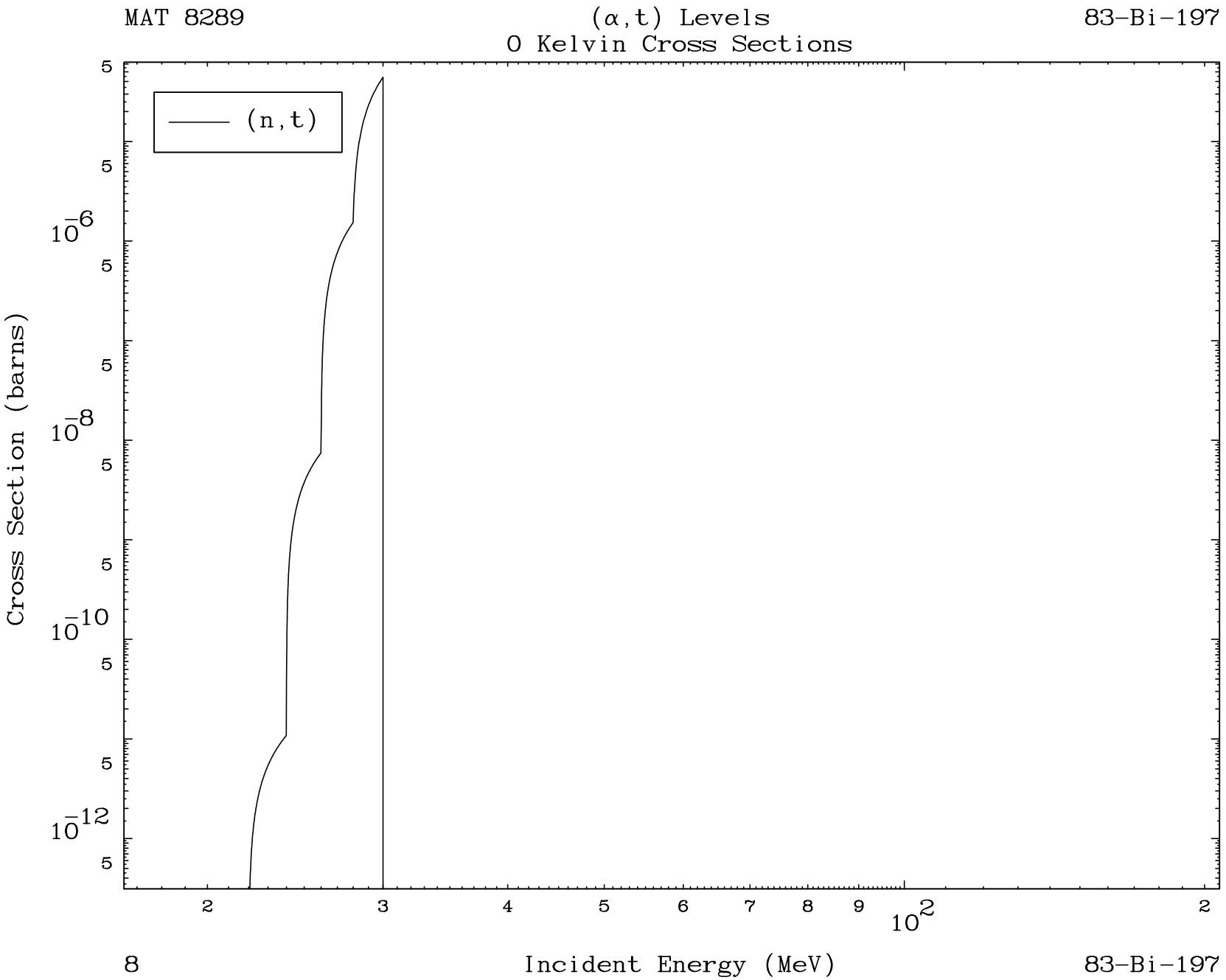

MAT 8289
α Neutron Absorption
0 Kelvin Cross Sections
83-Bi-197
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
3
83-Bi-197

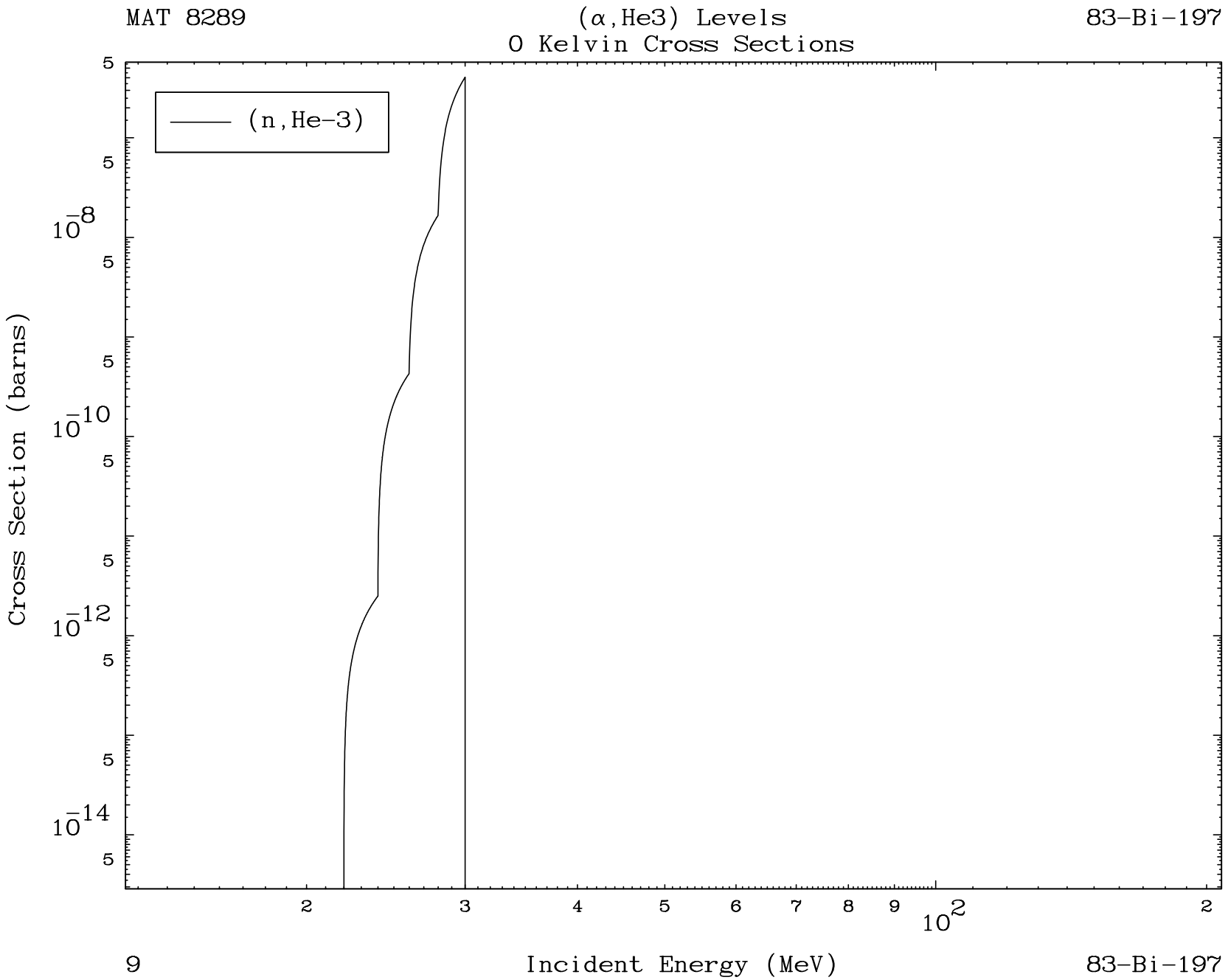

MAT 8289
α Charged Particle
0 Kelvin Cross Sections
83-Bi-197
(n,n') α
(n,2n) α
(n,n') p
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
4
83-Bi-197

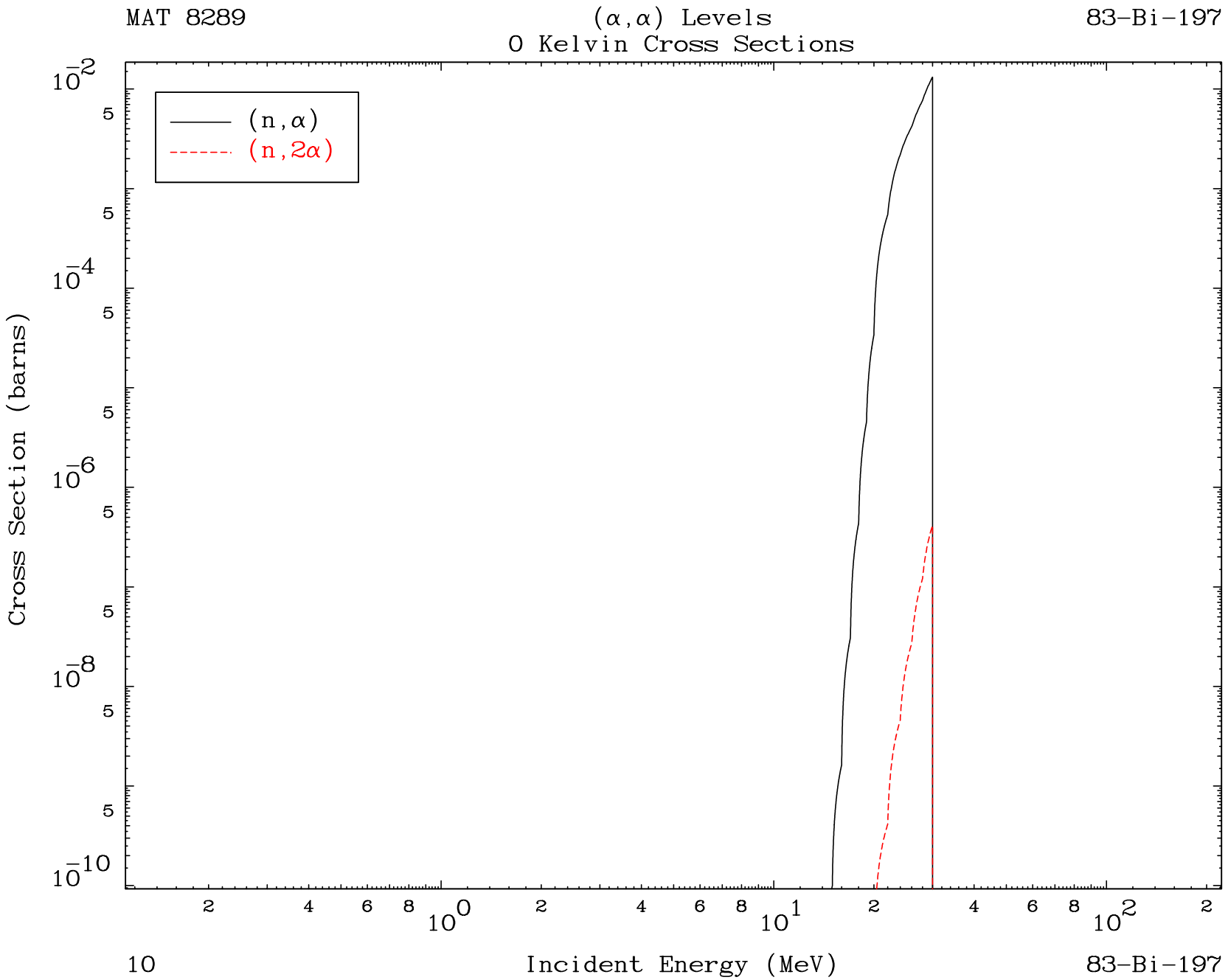

MAT 8289
α Charged Particle
0 Kelvin Cross Sections
83-Bi-197
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
83-Bi-197
5

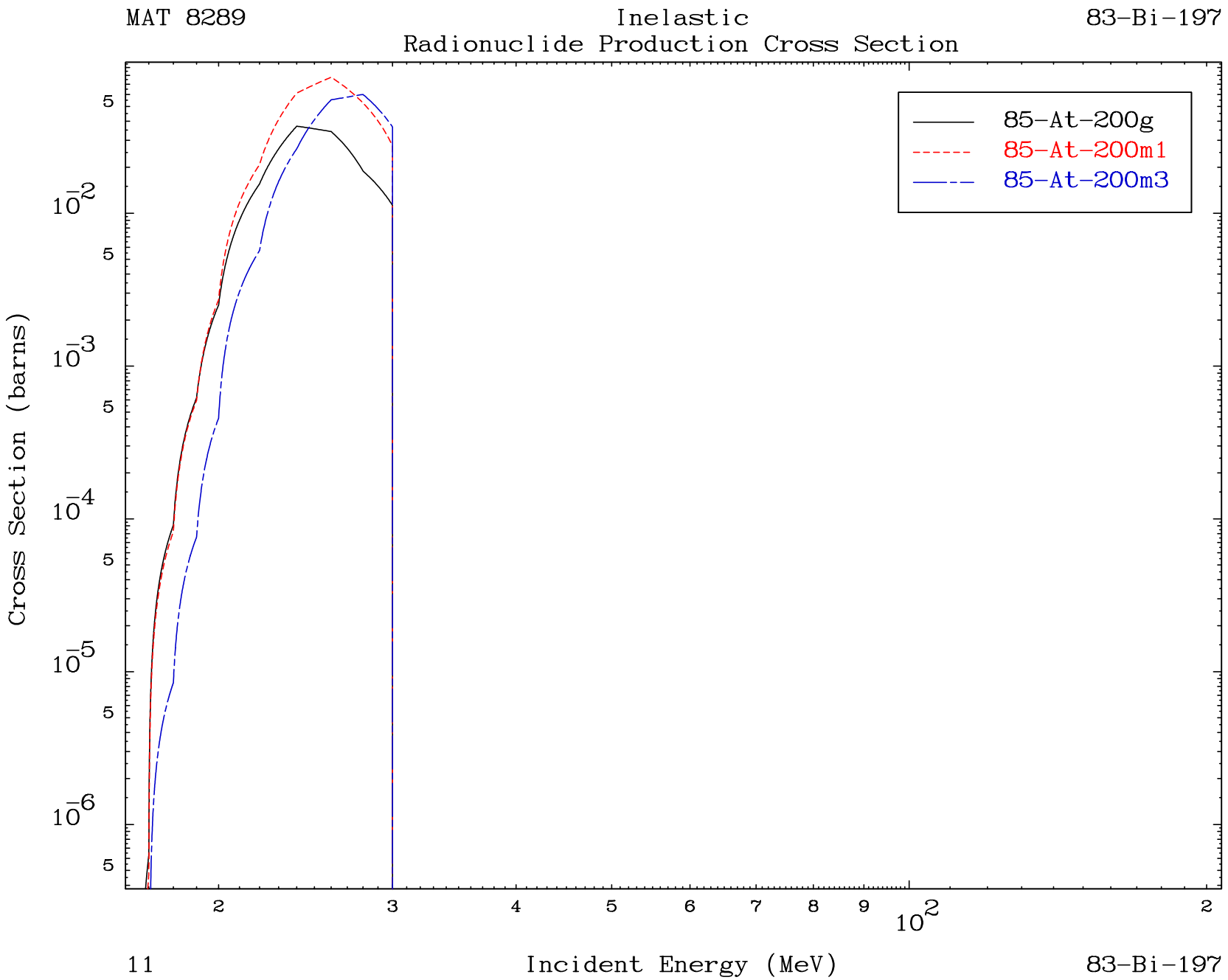

MAT 8289
(α,p) Levels
0 Kelvin Cross Sections
83-Bi-197
(n,p)
Cross Section (barns)
Incident Energy (MeV)
6
83-Bi-197

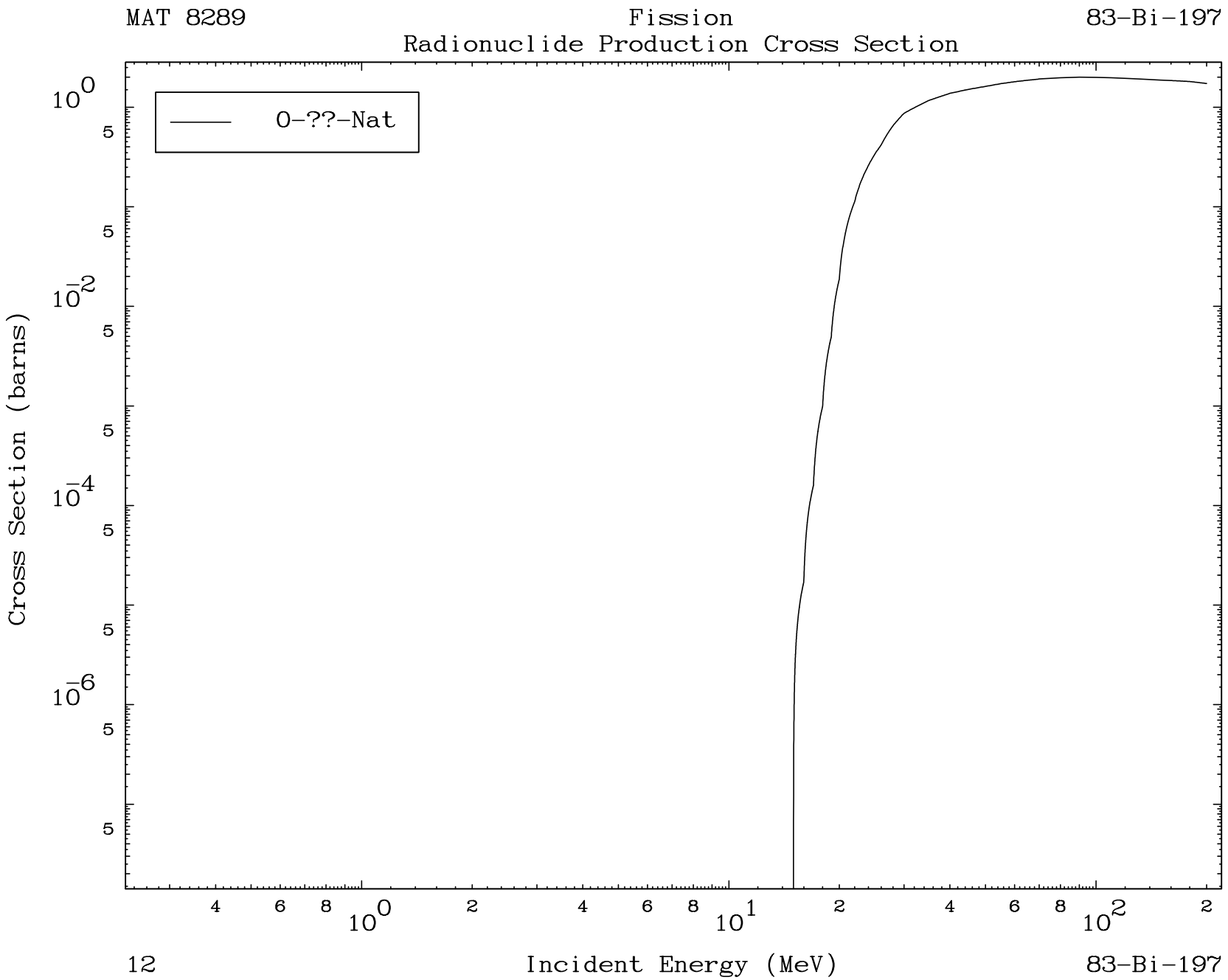

MAT 8289
(α,d) Levels
83-Bi-197
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
83-Bi-197

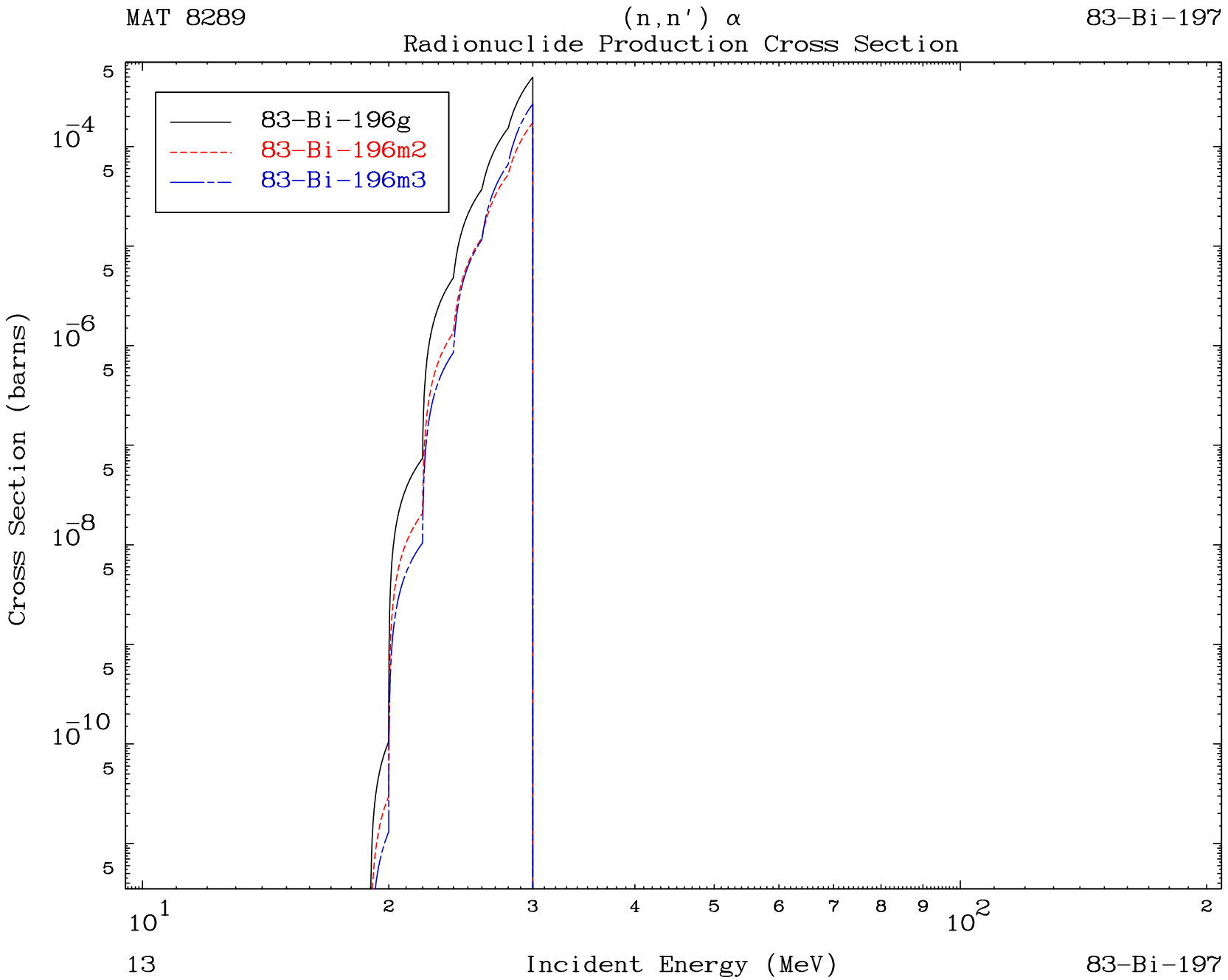

MAT 8289
(α,t) Levels
83-Bi-197
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
8
Incident Energy (MeV)
83-Bi-197

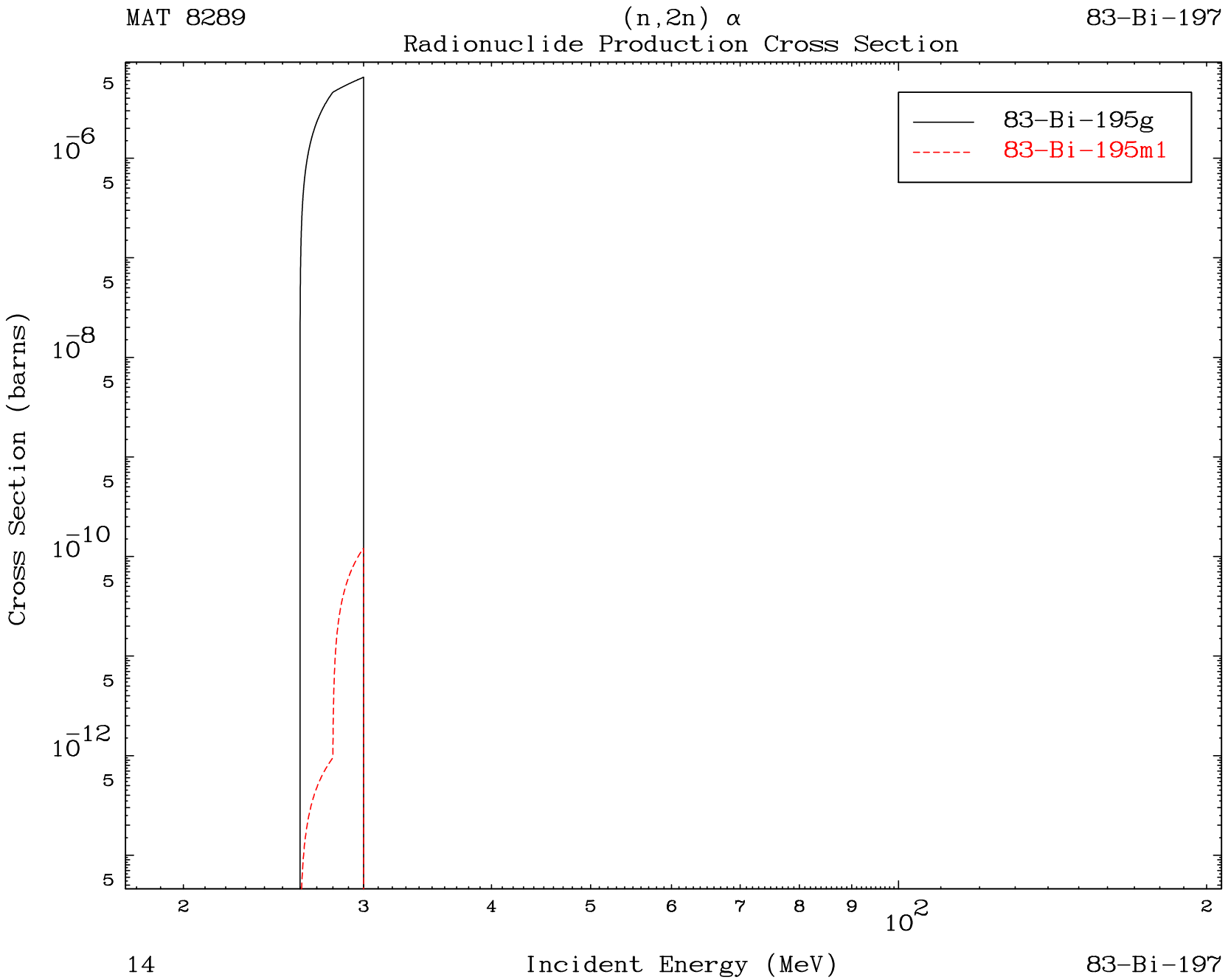

MAT 8289
(α,He3) Levels
0 Kelvin Cross Sections
83-Bi-197
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
9
83-Bi-197

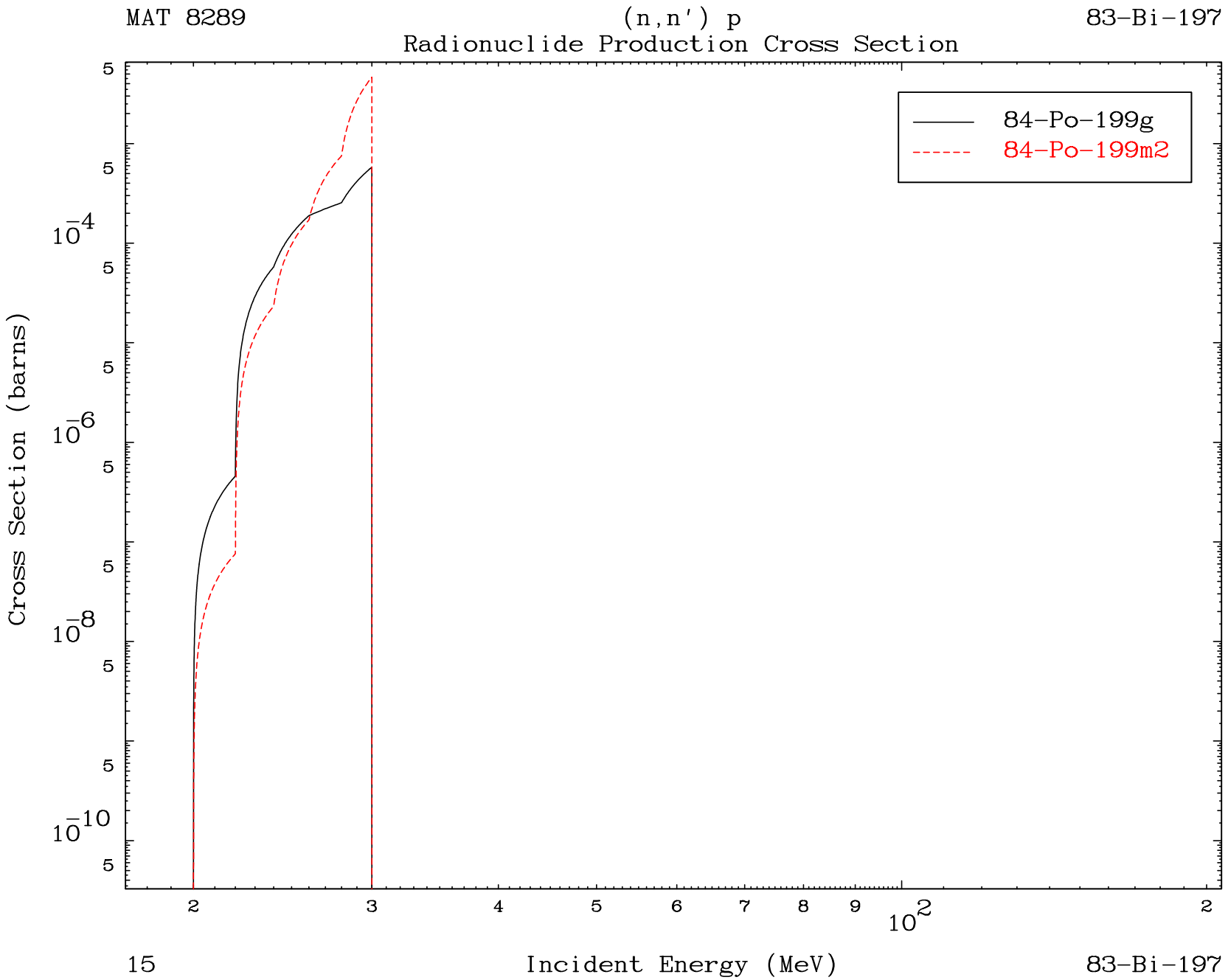

MAT 8289
(α,α) Levels
83-Bi-197
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
10
83-Bi-197

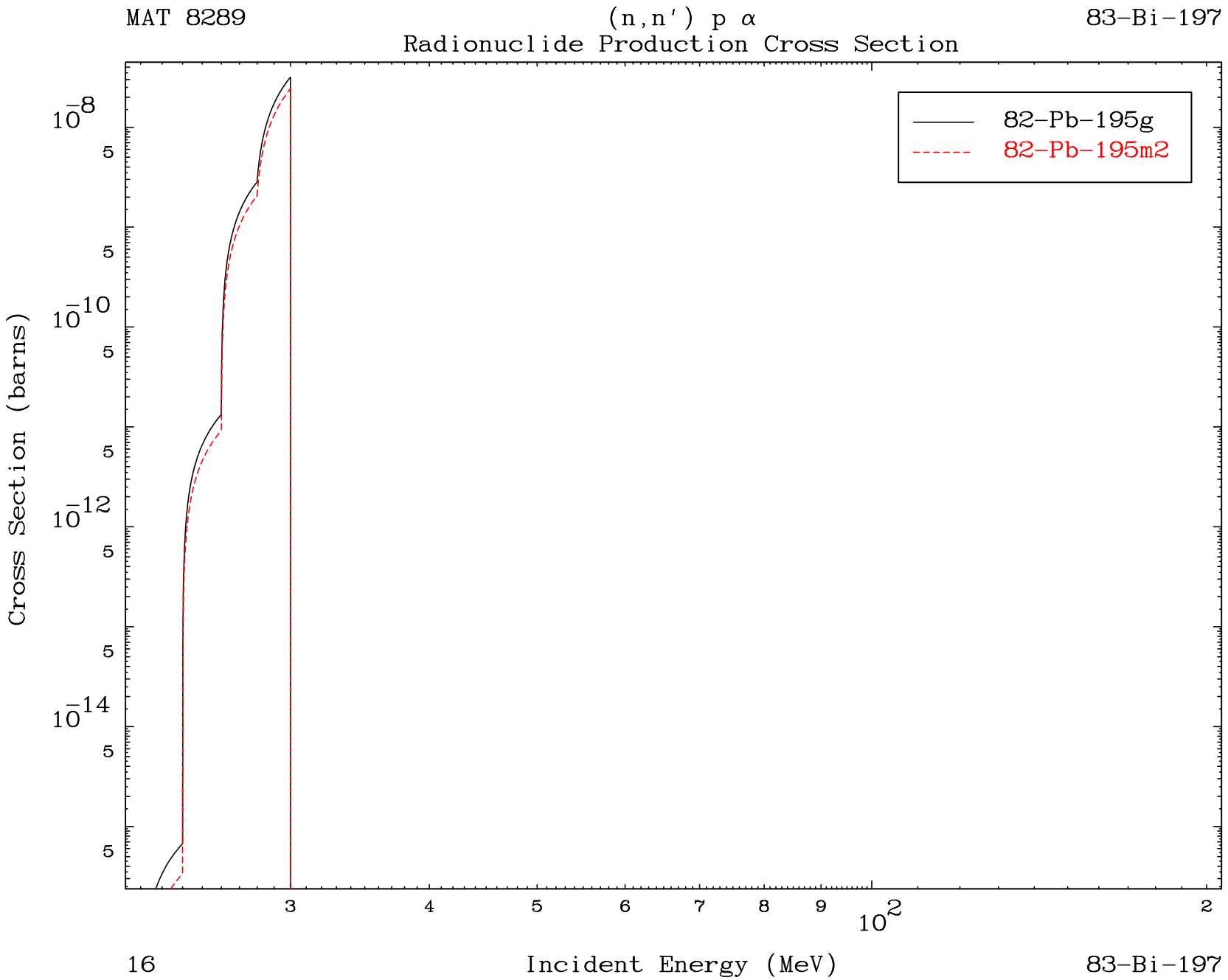

MAT 8289
Inelastic
83-Bi-197
Radionuclide Production Cross Section
85-At-200g
85-At-200m1
85-At-200m3
Cross Section (barns)
Incident Energy (MeV)
11
83-Bi-197

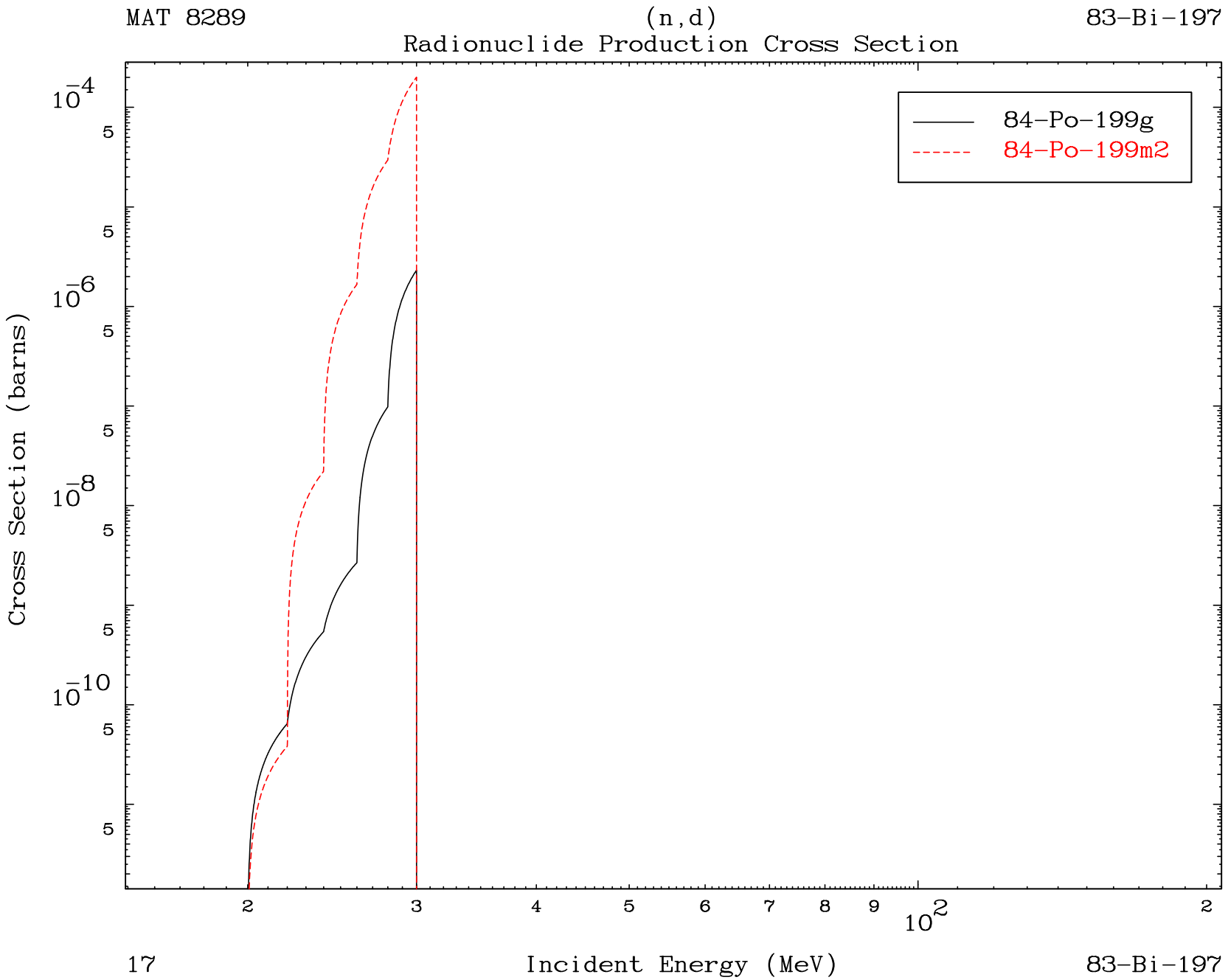

MAT 8289
Fission
83-Bi-197
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
12
83-Bi-197

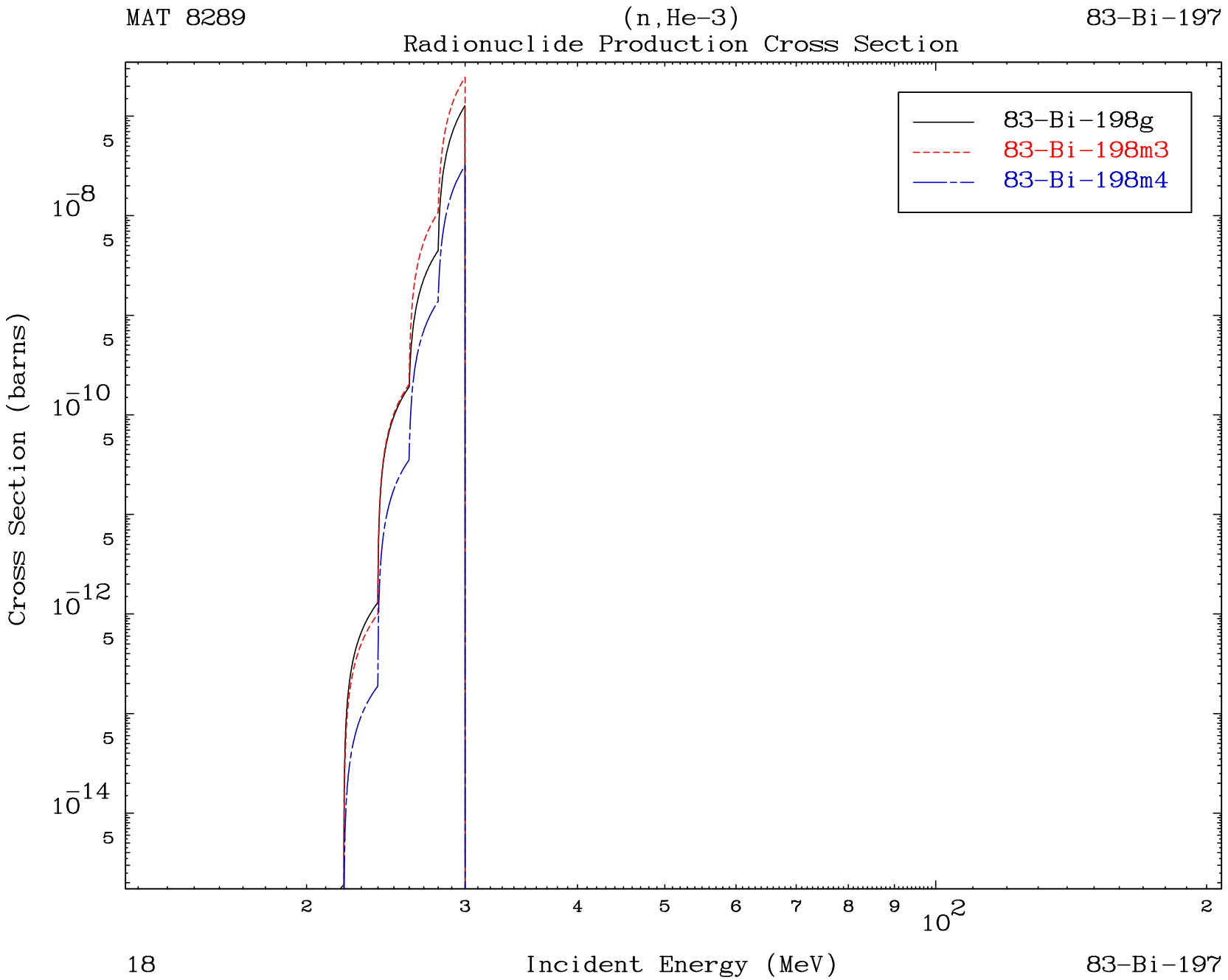

MAT 8289
(n,n') α
83-Bi-197
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
13
83-Bi-197

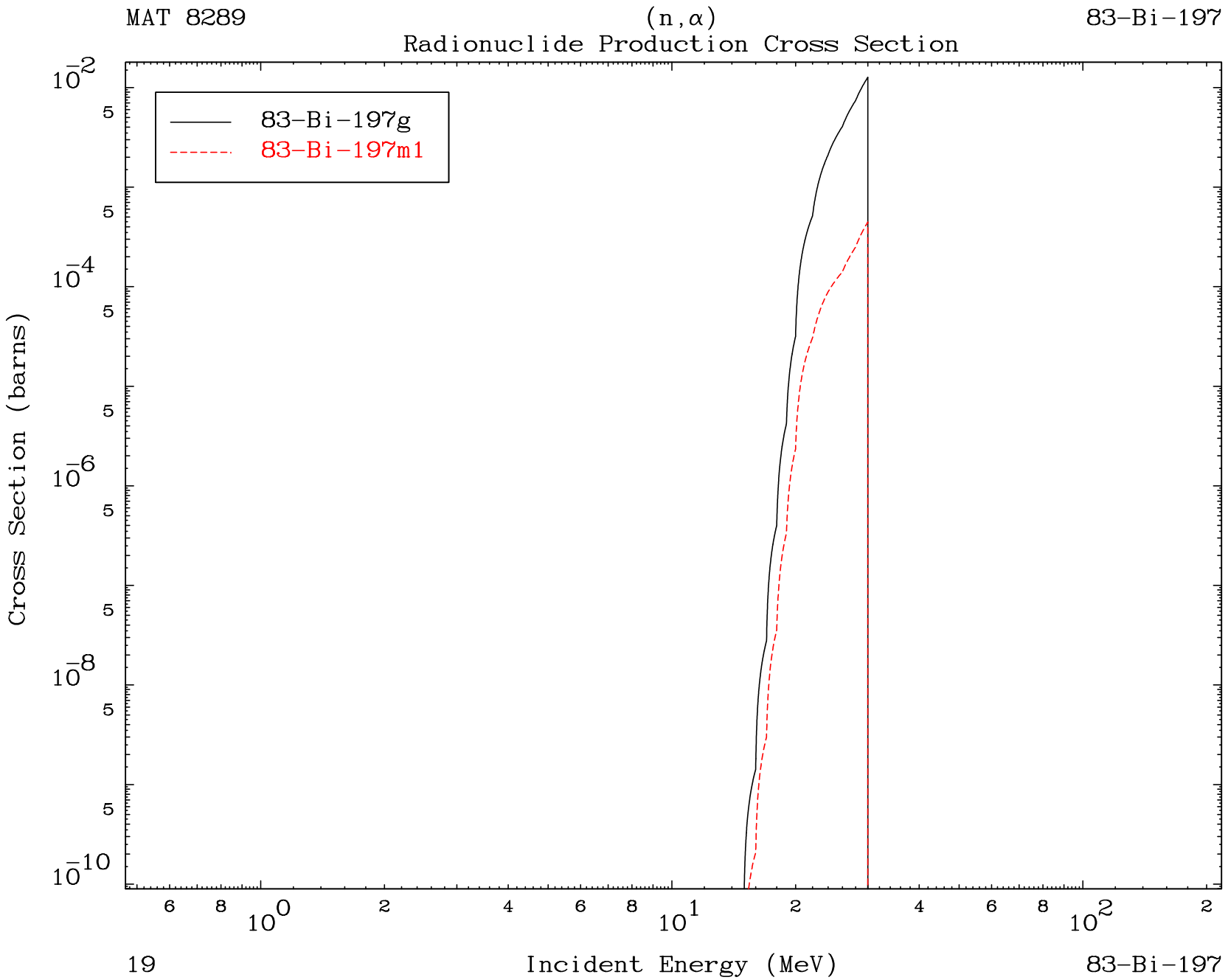

MAT 8289
(n,2n) α
83-Bi-197
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
83-Bi-197

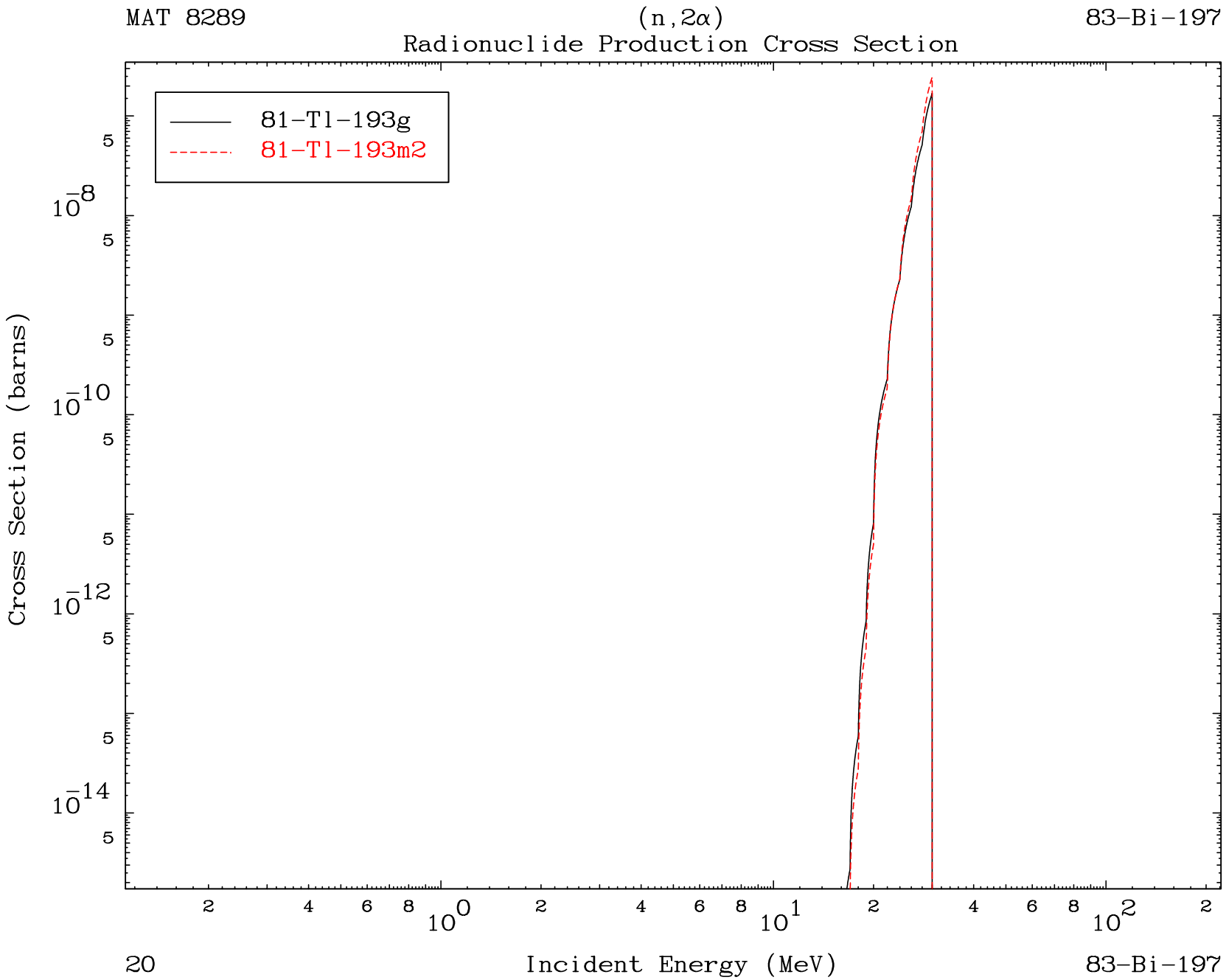

MAT 8289
(n,n') p
83-Bi-197
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
15
83-Bi-197

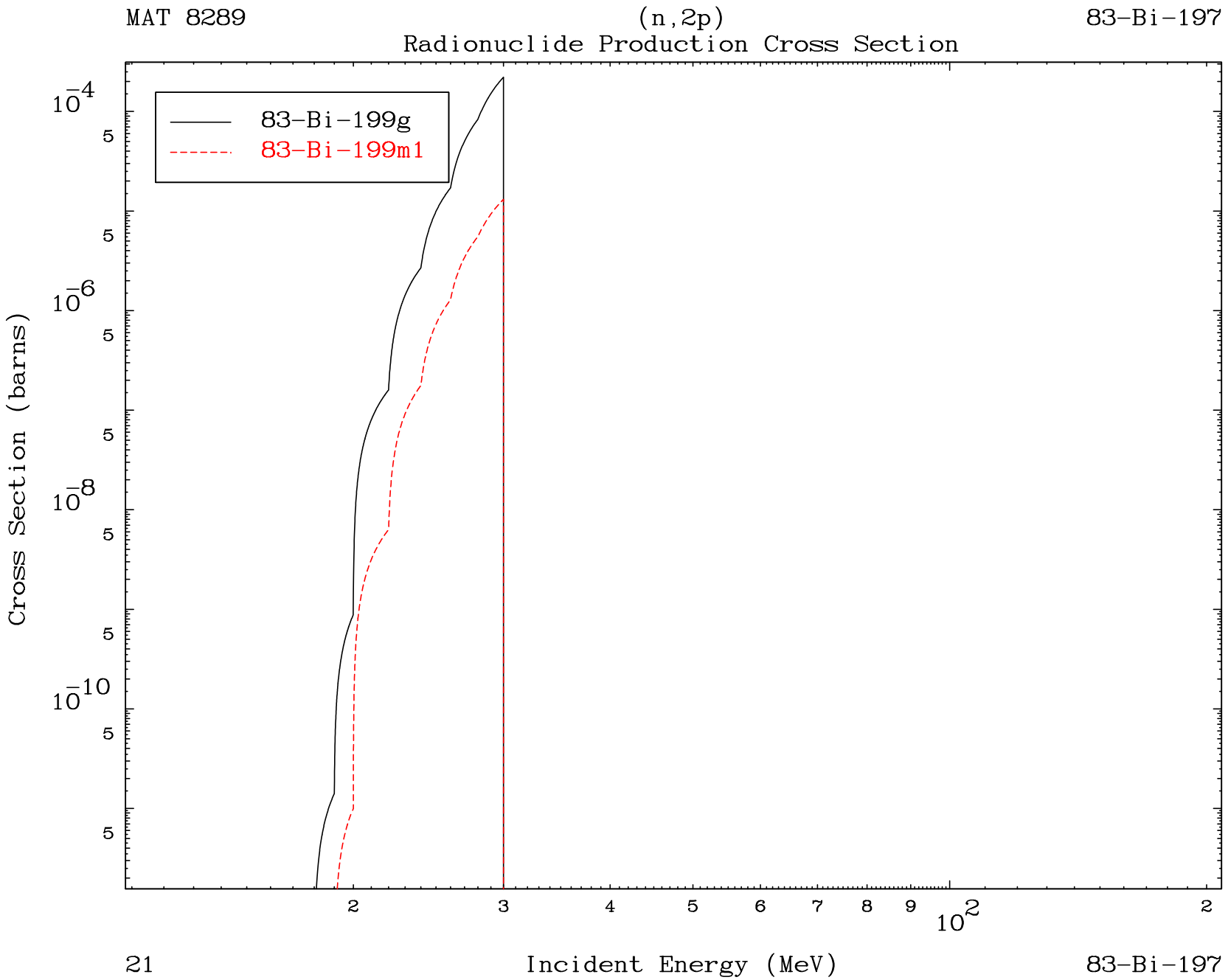

MAT 8289
(n,n') p α
83-Bi-197
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
83-Bi-197


MAT 8289
(n,d)
83-Bi-197
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
83-Bi-197


MAT 8289
(n,He-3)
83-Bi-197
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
83-Bi-197


MAT 8289
(n,α)
83-Bi-197
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
19
83-Bi-197


MAT 8289
(n,2α)
83-Bi-197
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
4
6
8
100
101
102
20
Incident Energy (MeV)
83-Bi-197


MAT 8289
(n,2p)
83-Bi-197
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
83-Bi-197