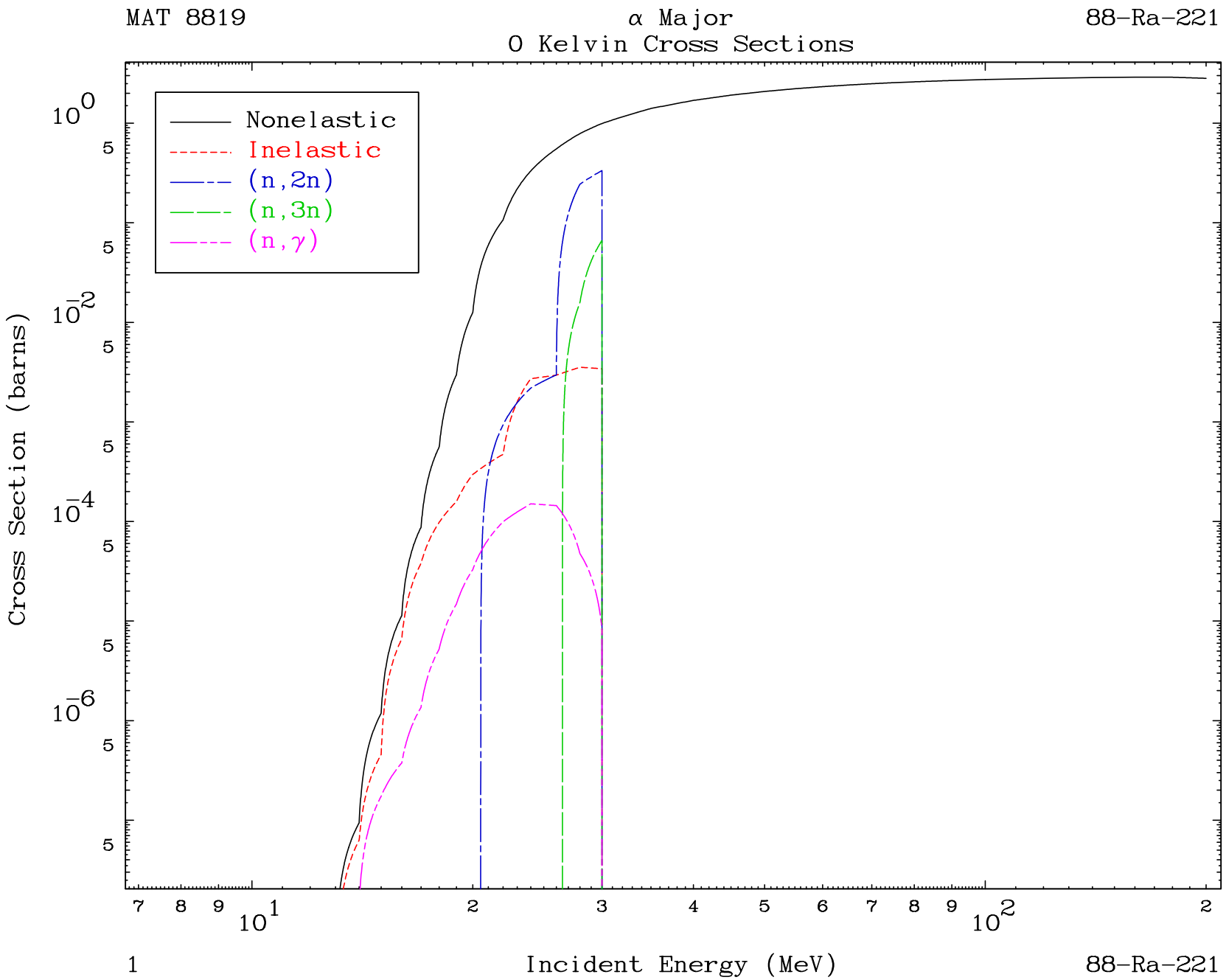
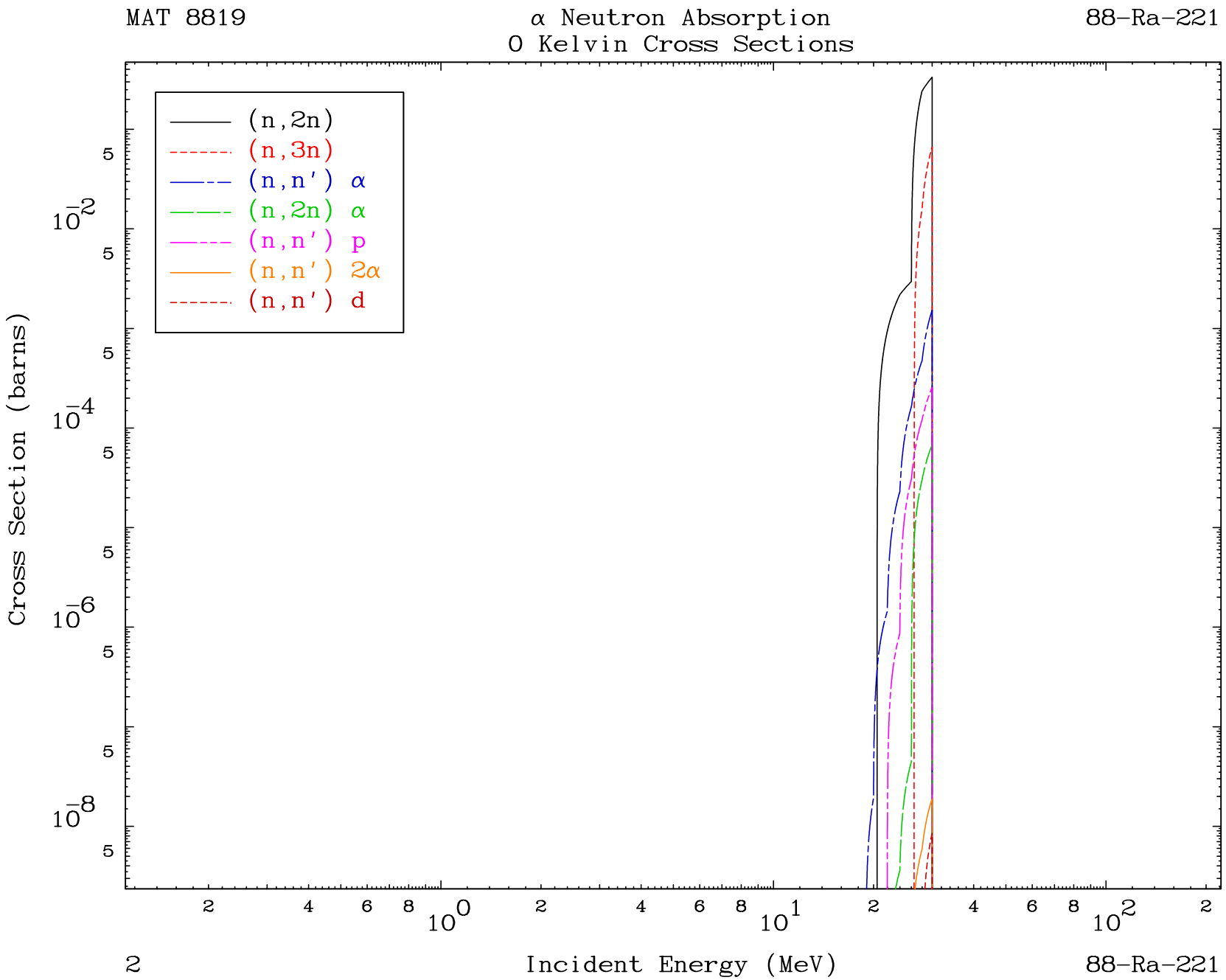
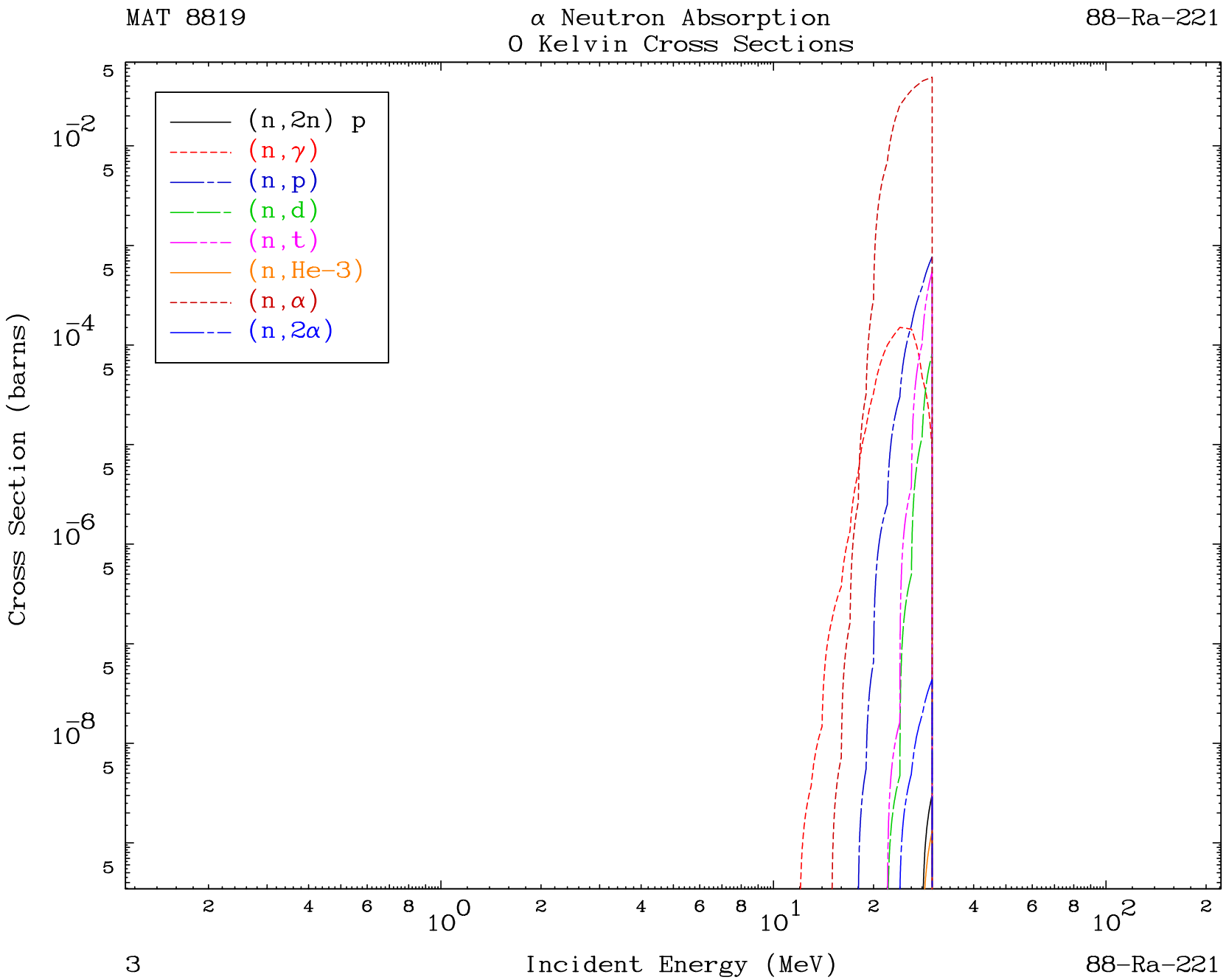
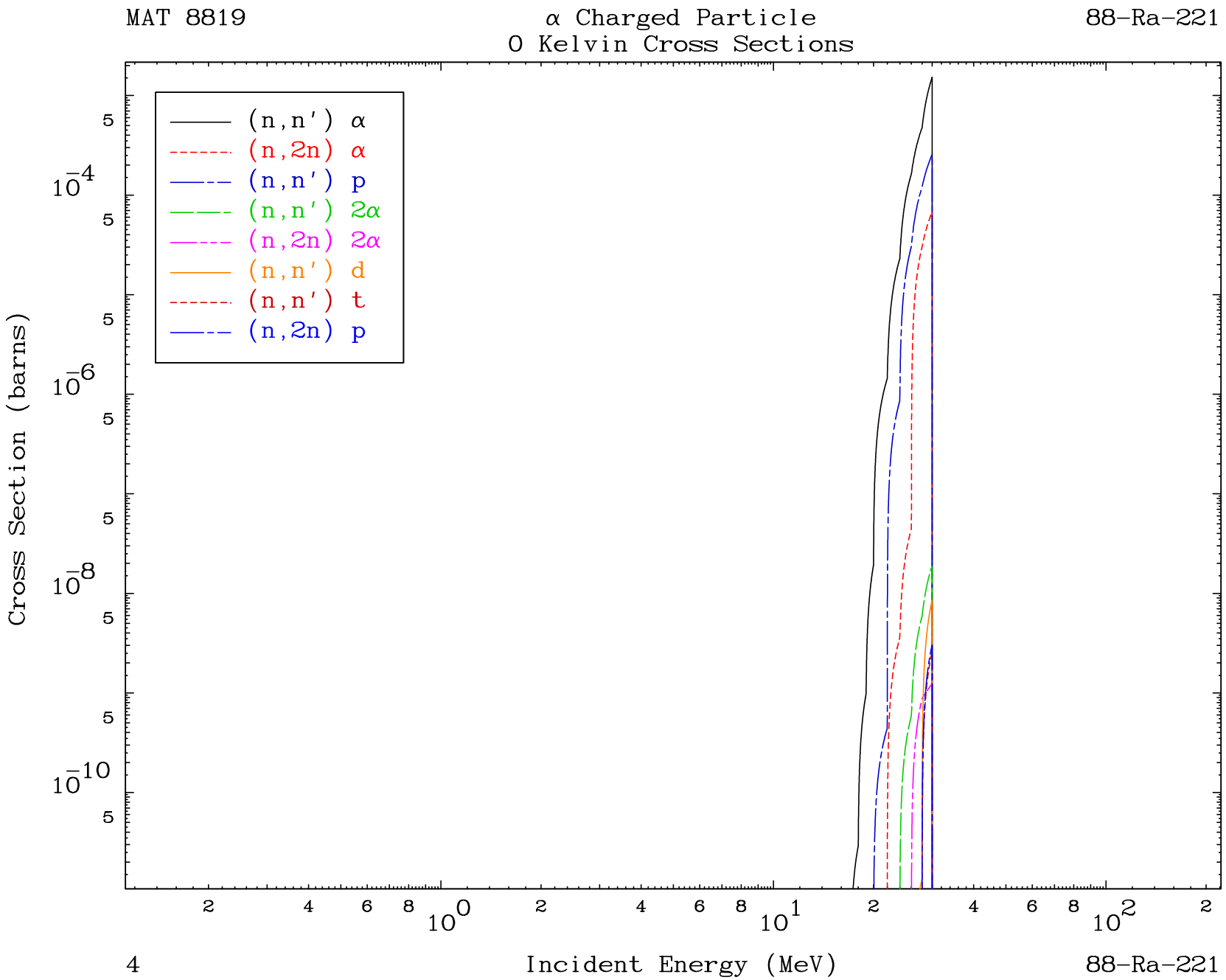
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

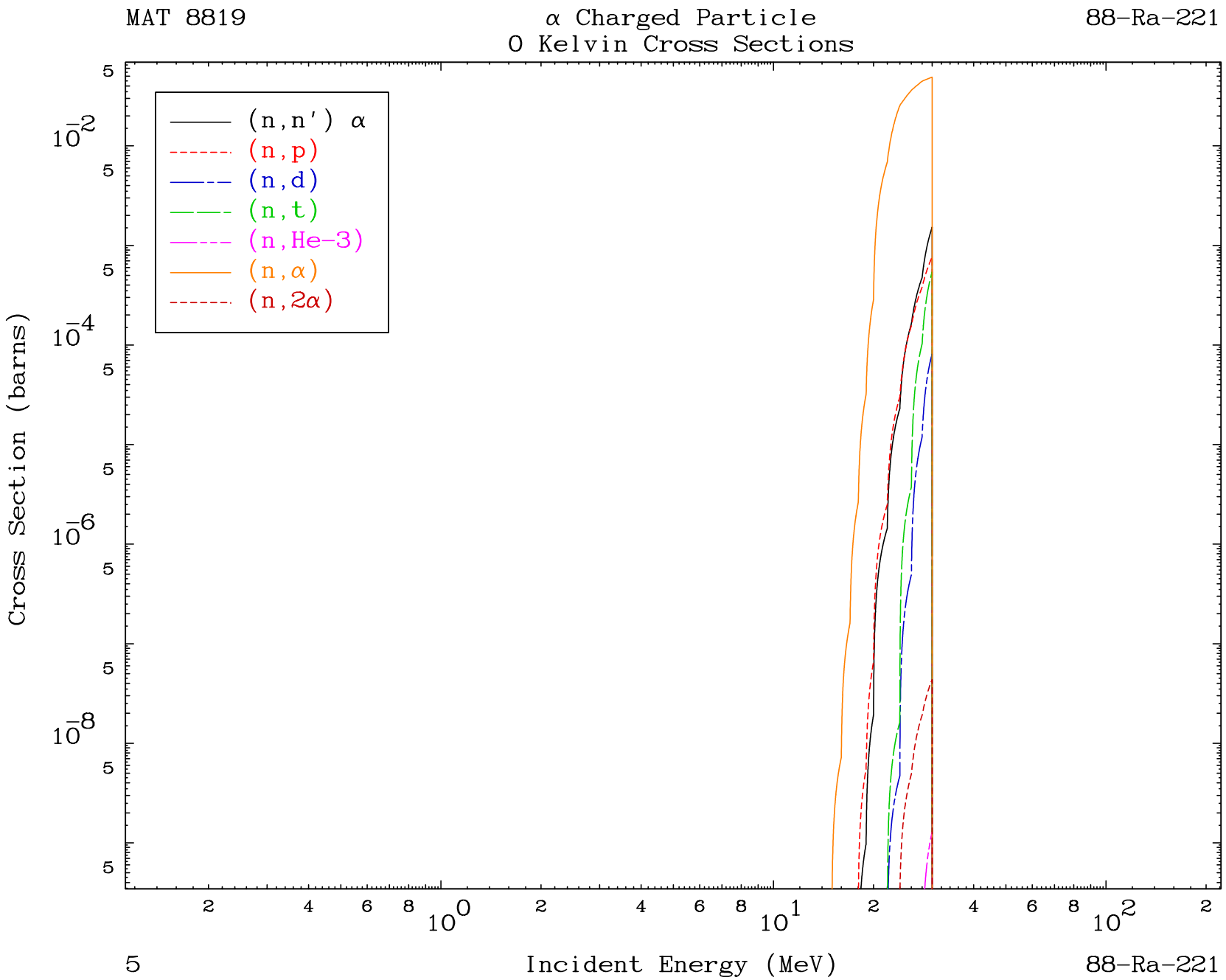
Press Mouse Button to Start

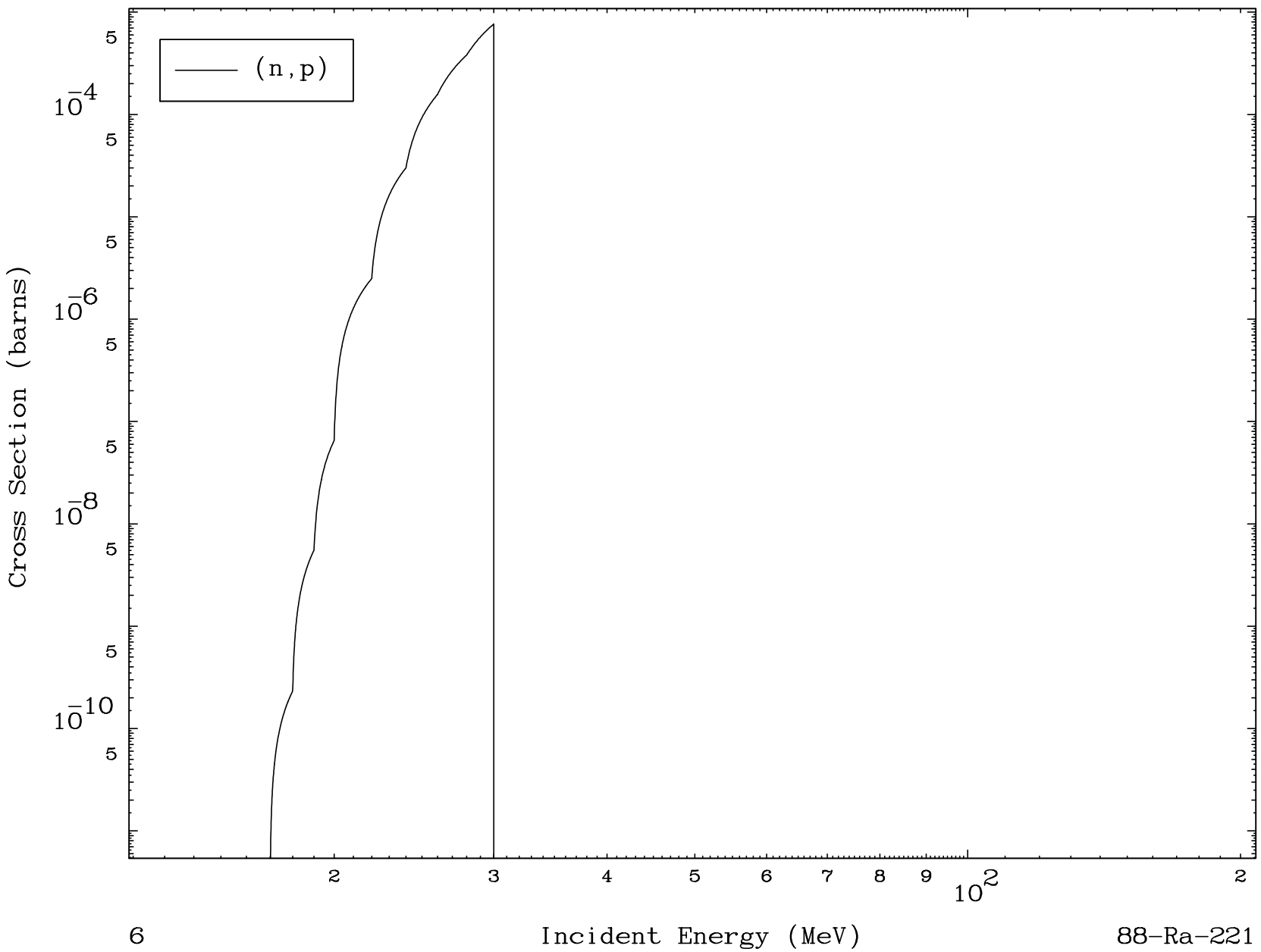

MAT 8819
α Major
88-Ra-221
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
88-Ra-221

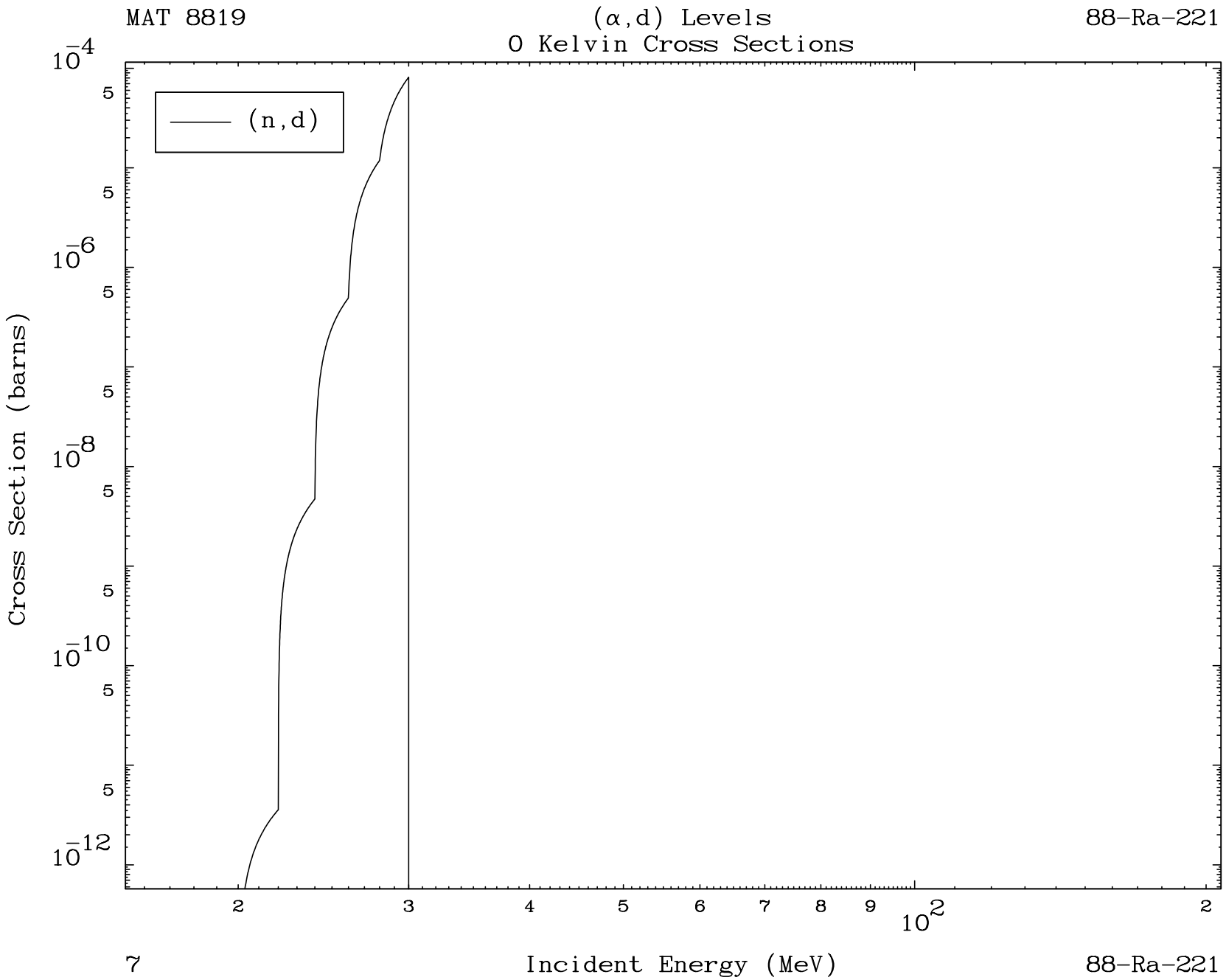

MAT 8819
α Neutron Absorption
0 Kelvin Cross Sections
88-Ra-221
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
88-Ra-221
2

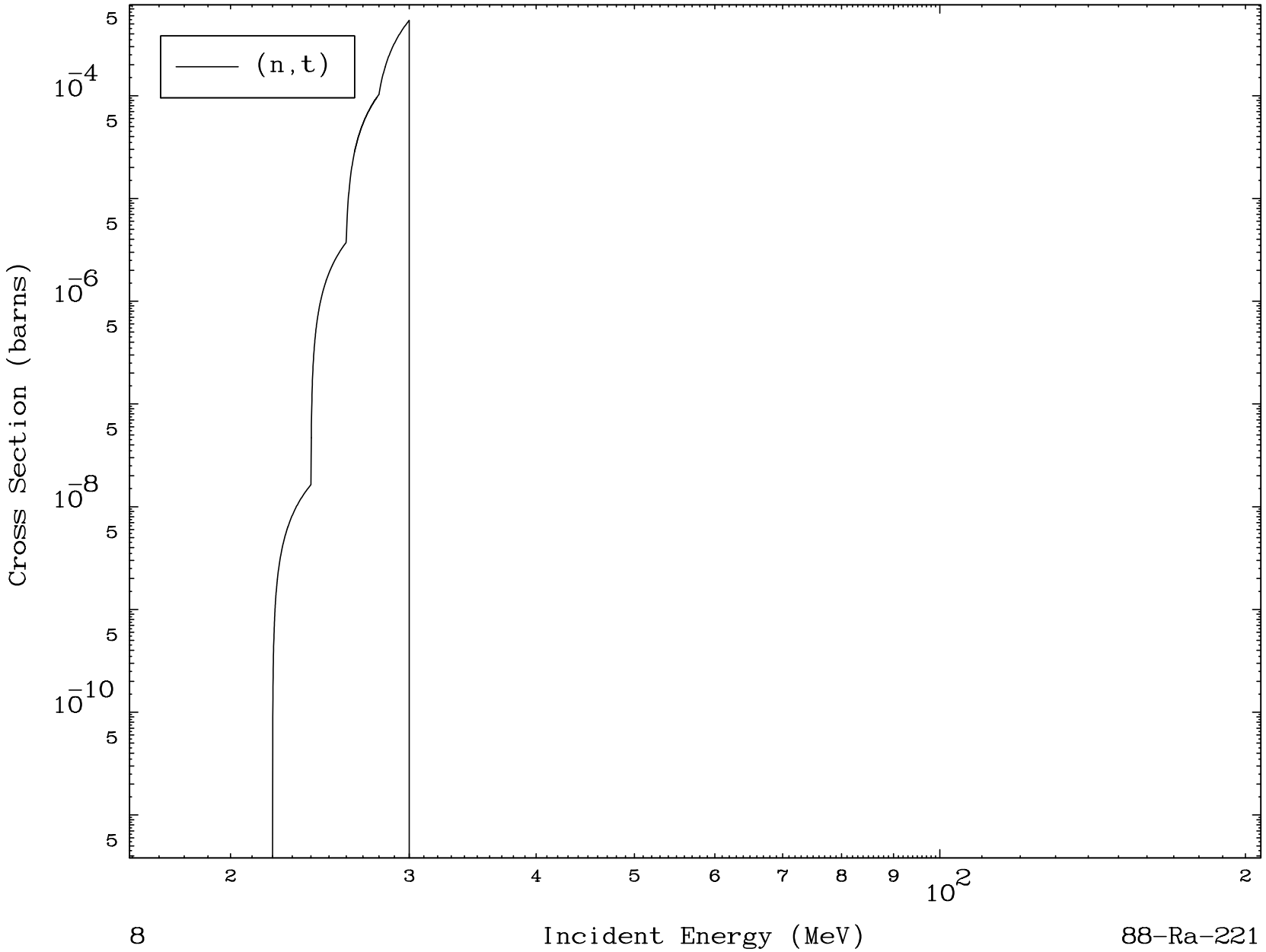

MAT 8819
α Neutron Absorption
0 Kelvin Cross Sections
88-Ra-221
(n,2n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
3
88-Ra-221

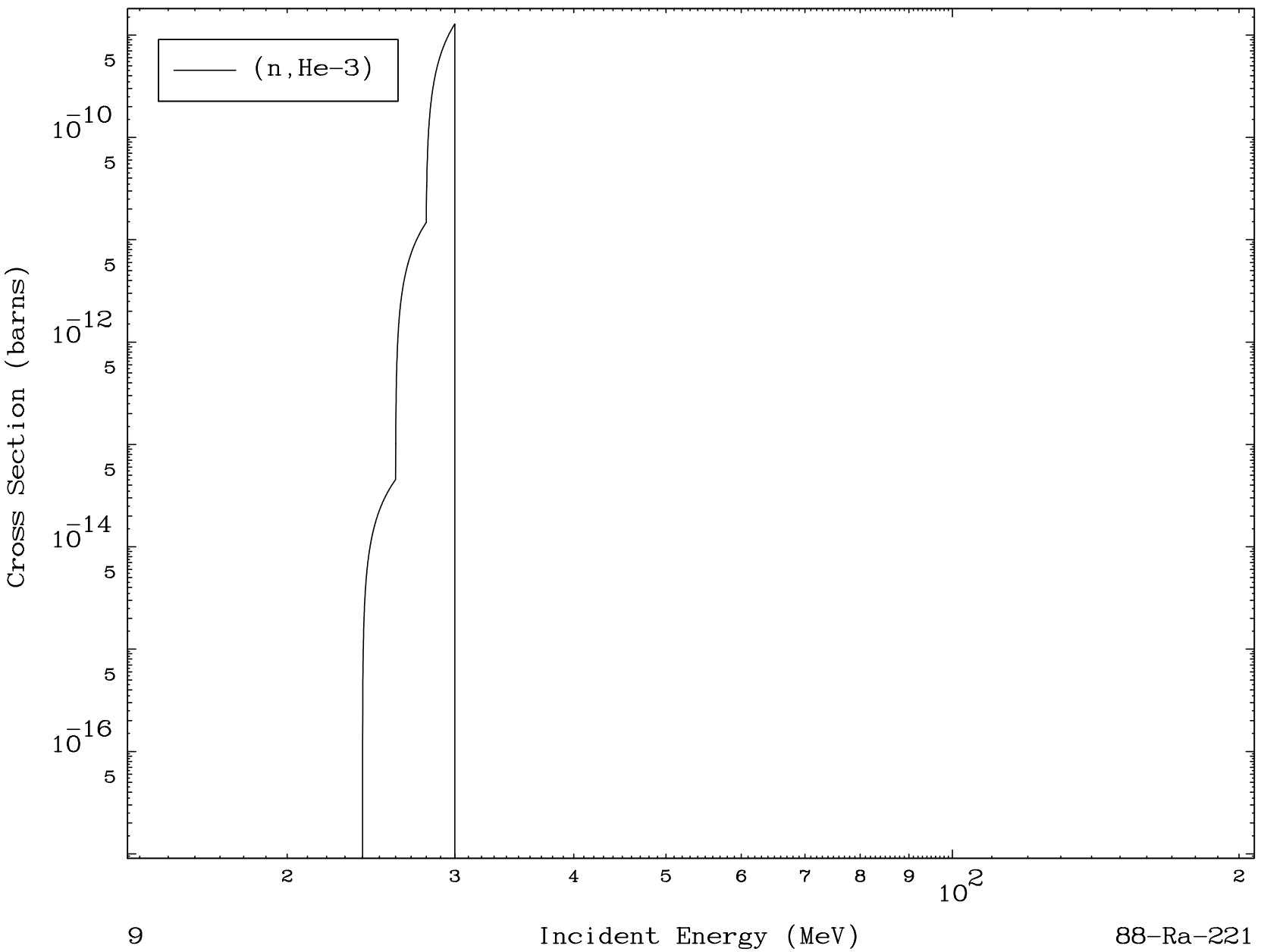

MAT 8819
α Charged Particle
0 Kelvin Cross Sections
88-Ra-221
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
4
88-Ra-221

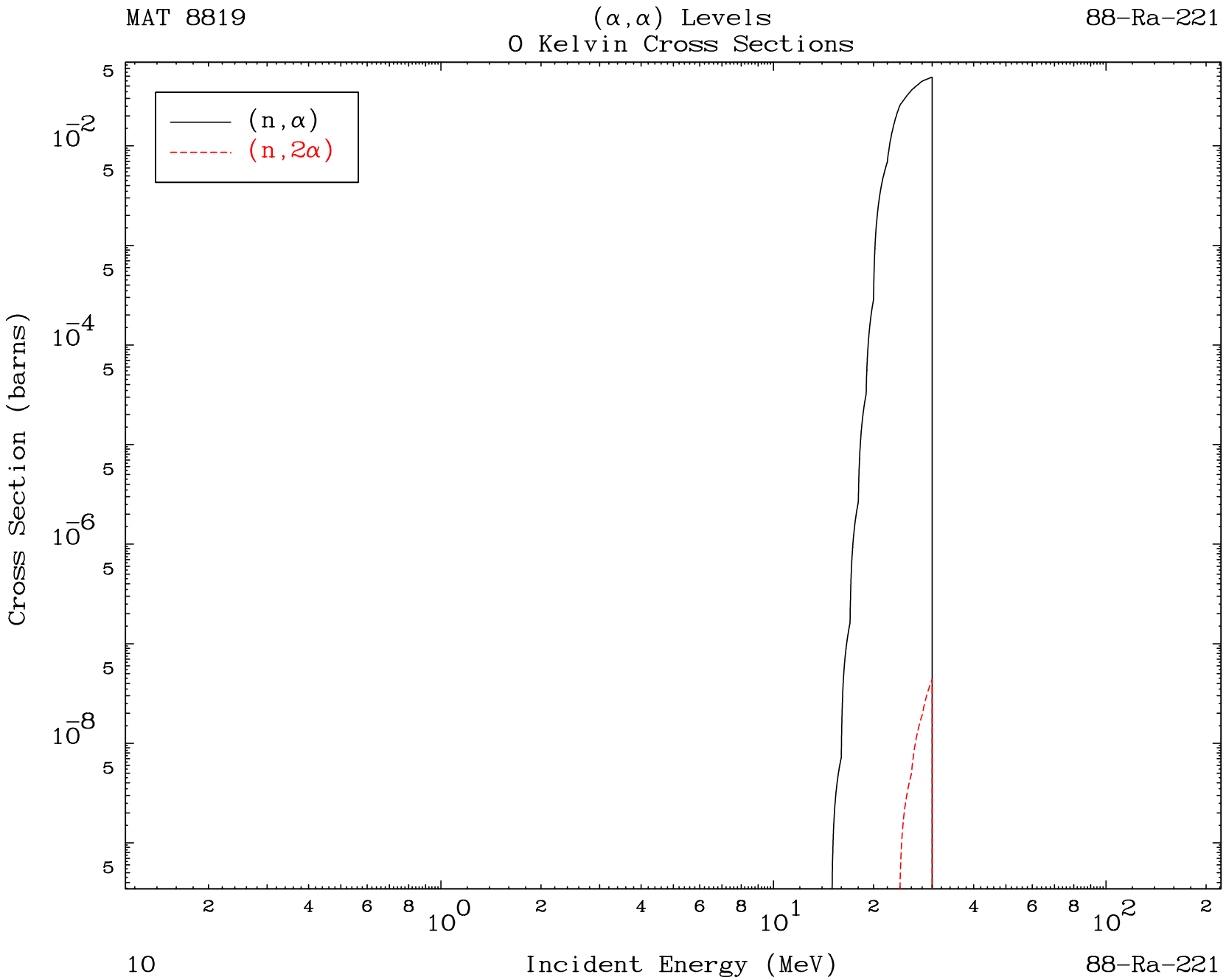

MAT 8819
α Charged Particle
0 Kelvin Cross Sections
88-Ra-221
(n,n') α
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
88-Ra-221

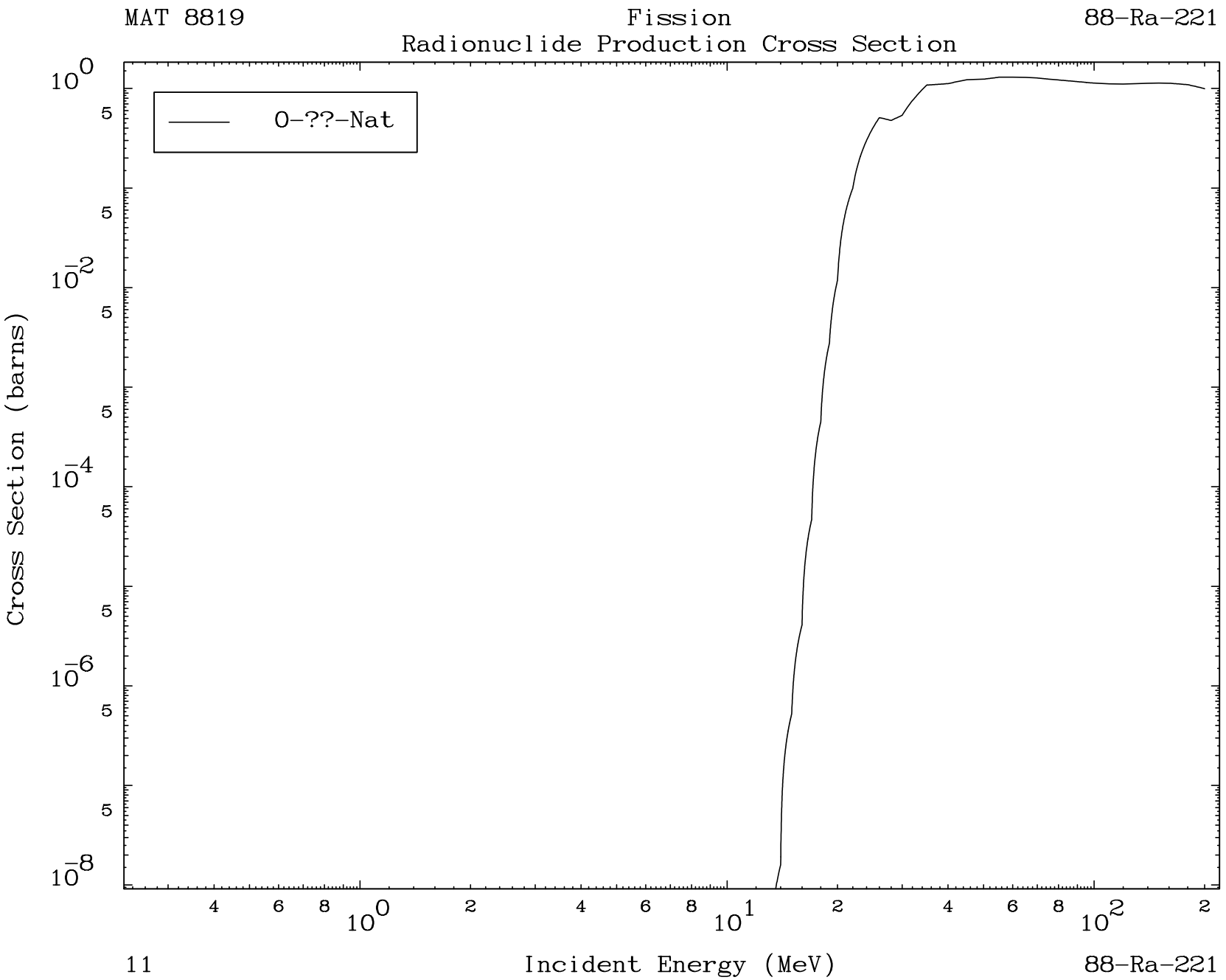

0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

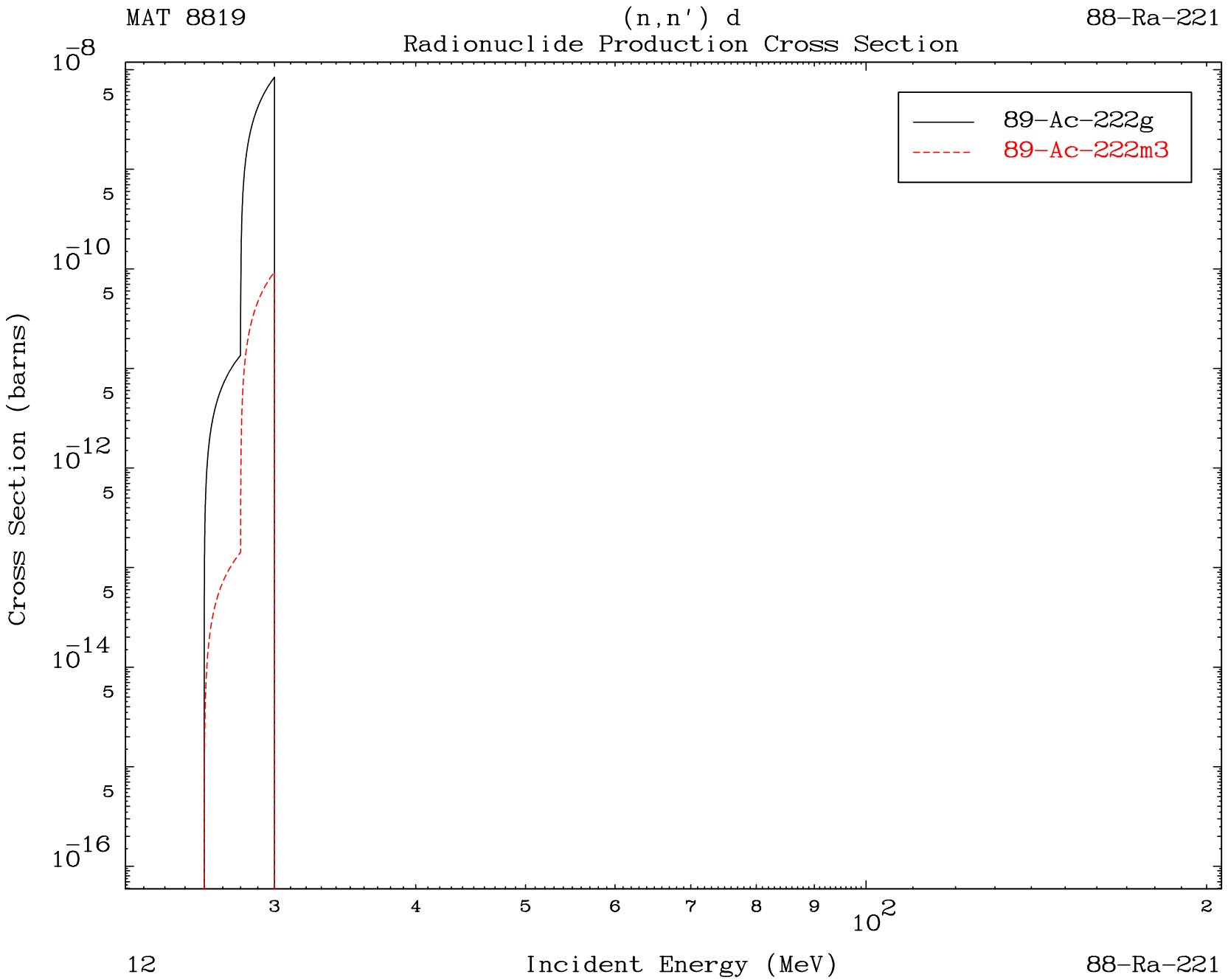

MAT 8819
(α,d) Levels
88-Ra-221
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
7
88-Ra-221

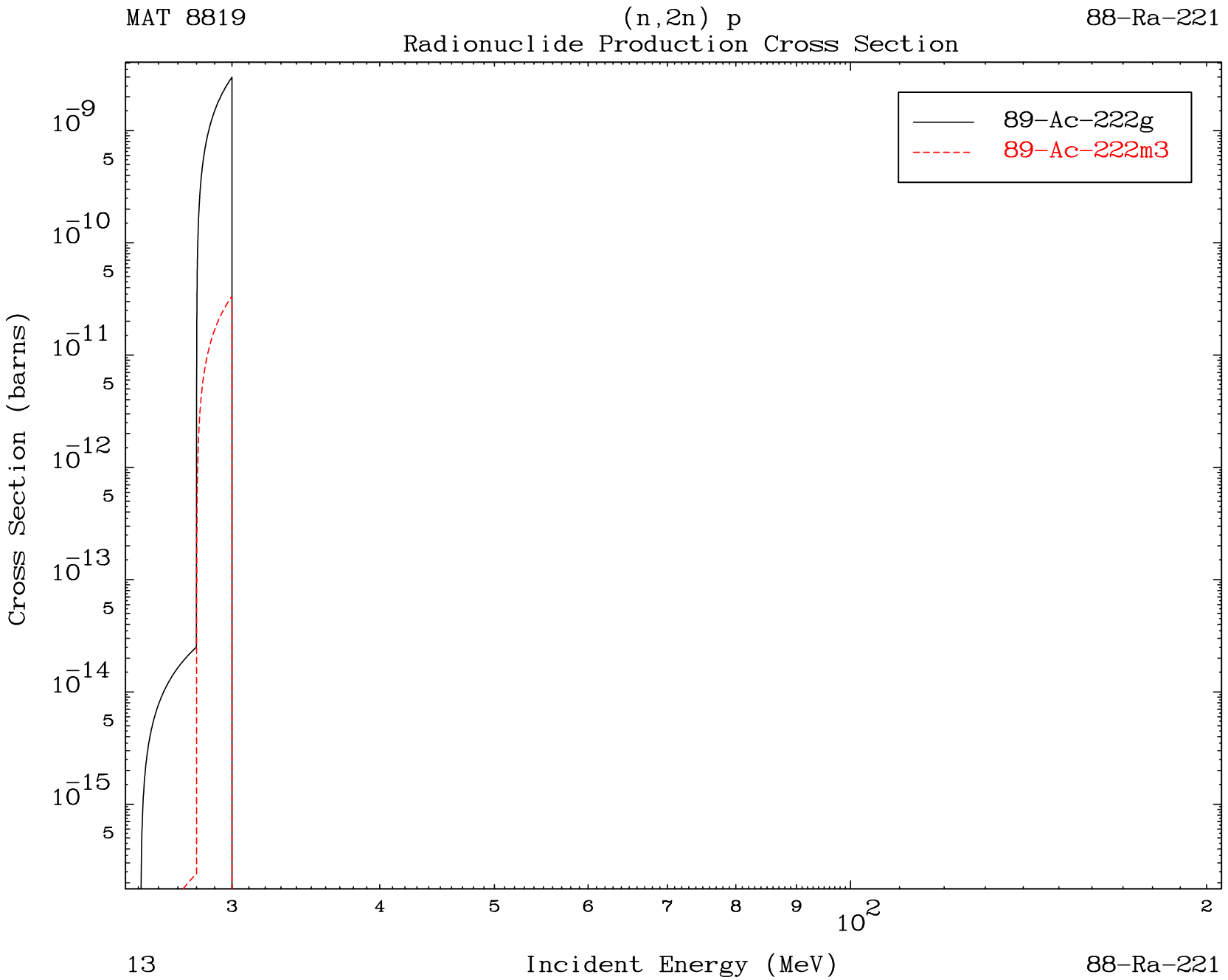

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

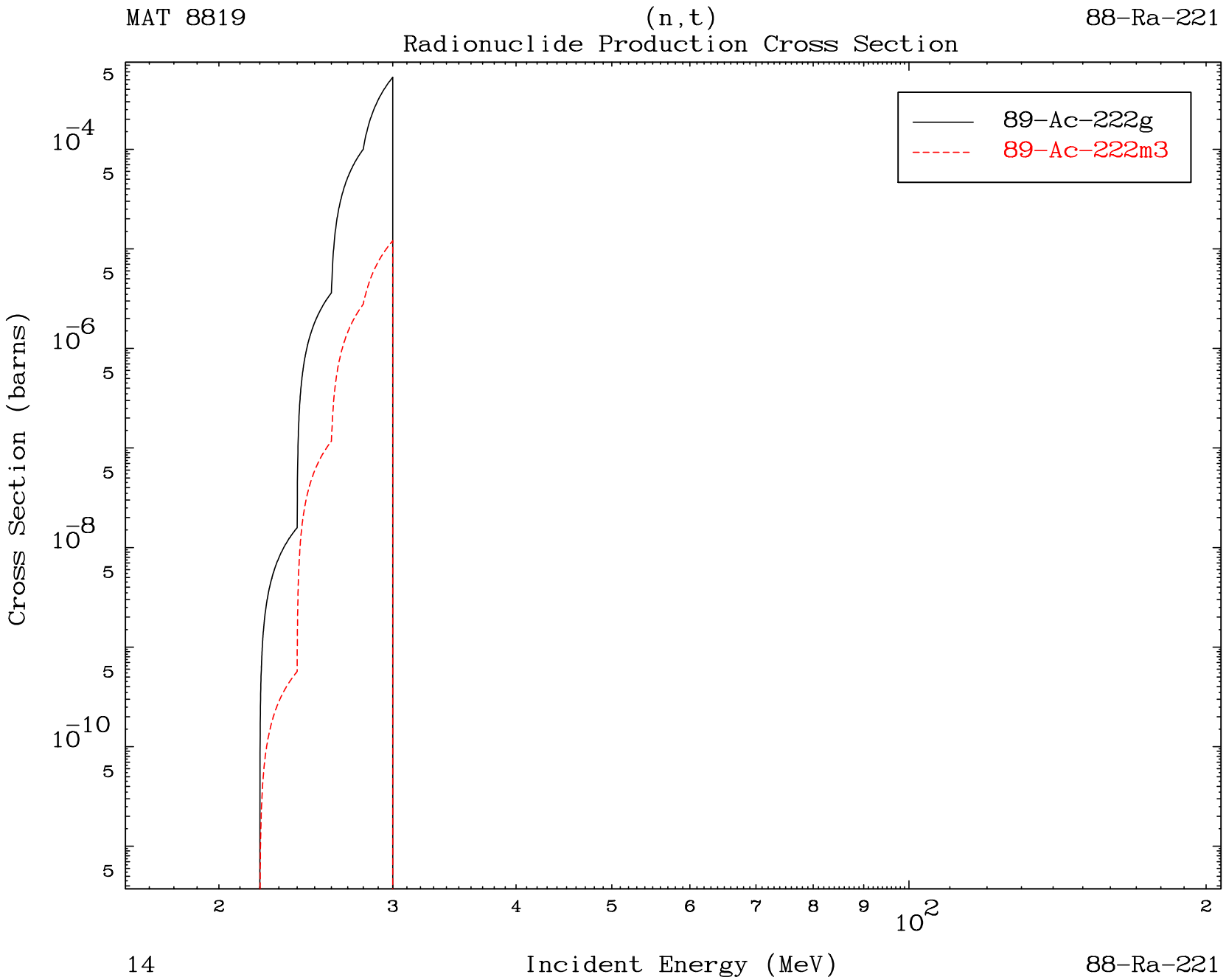

0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
5
10-10
5
5
10-12
5
5
10-14
5
5
10-16
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)


MAT 8819
(α,α) Levels
88-Ra-221
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
88-Ra-221


MAT 8819
Fission
88-Ra-221
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
11
88-Ra-221


MAT 8819
(n,n') d
88-Ra-221
Radionuclide Production Cross Section
89-Ac-222g
89-Ac-222m3
Cross Section (barns)
Incident Energy (MeV)
12
88-Ra-221


MAT 8819
(n,2n) p
88-Ra-221
Radionuclide Production Cross Section
89-Ac-222g
89-Ac-222m3
Cross Section (barns)
Incident Energy (MeV)
13
88-Ra-221


MAT 8819
(n,t)
88-Ra-221
Radionuclide Production Cross Section
89-Ac-222g
89-Ac-222m3
Cross Section (barns)
Incident Energy (MeV)
14
88-Ra-221