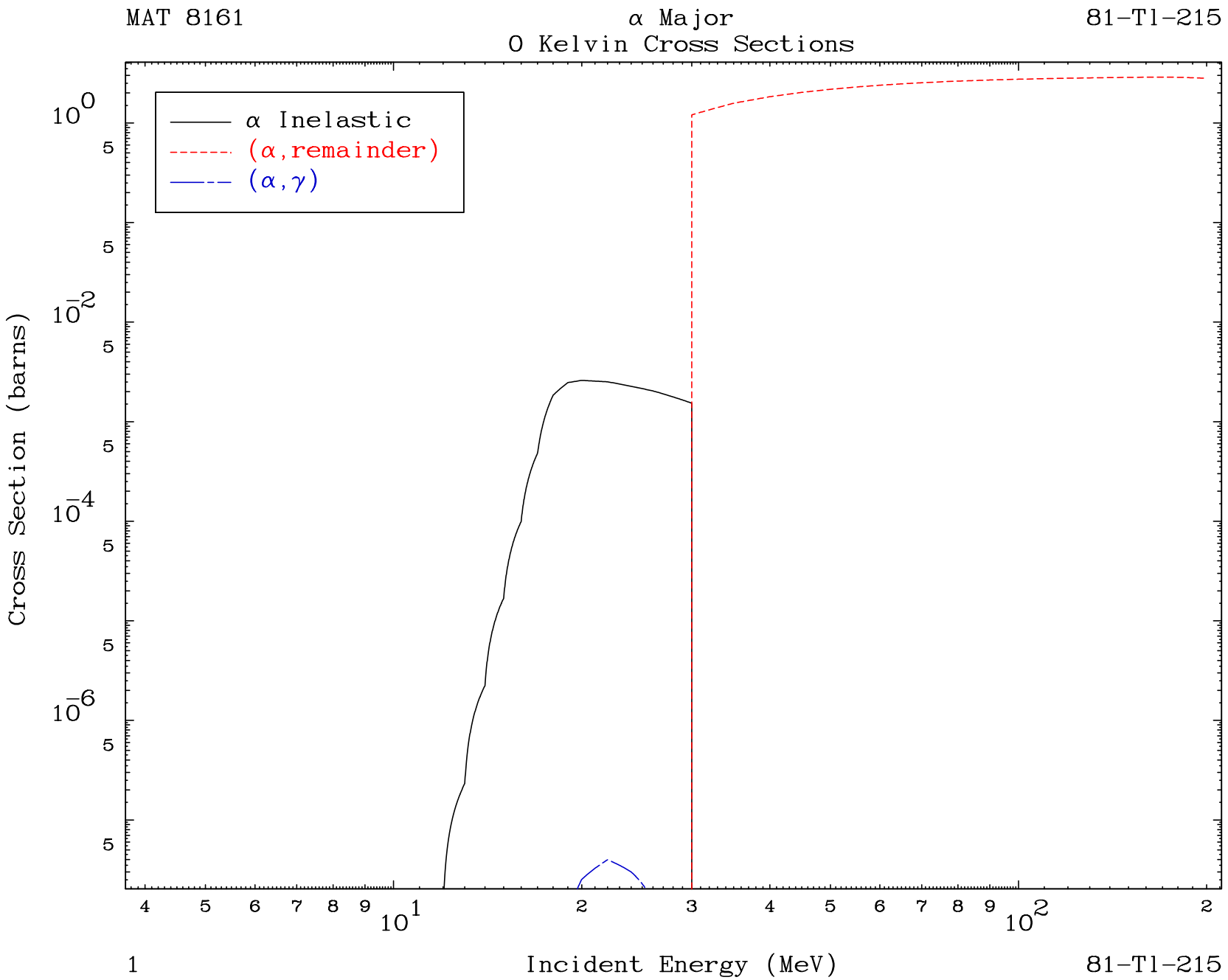
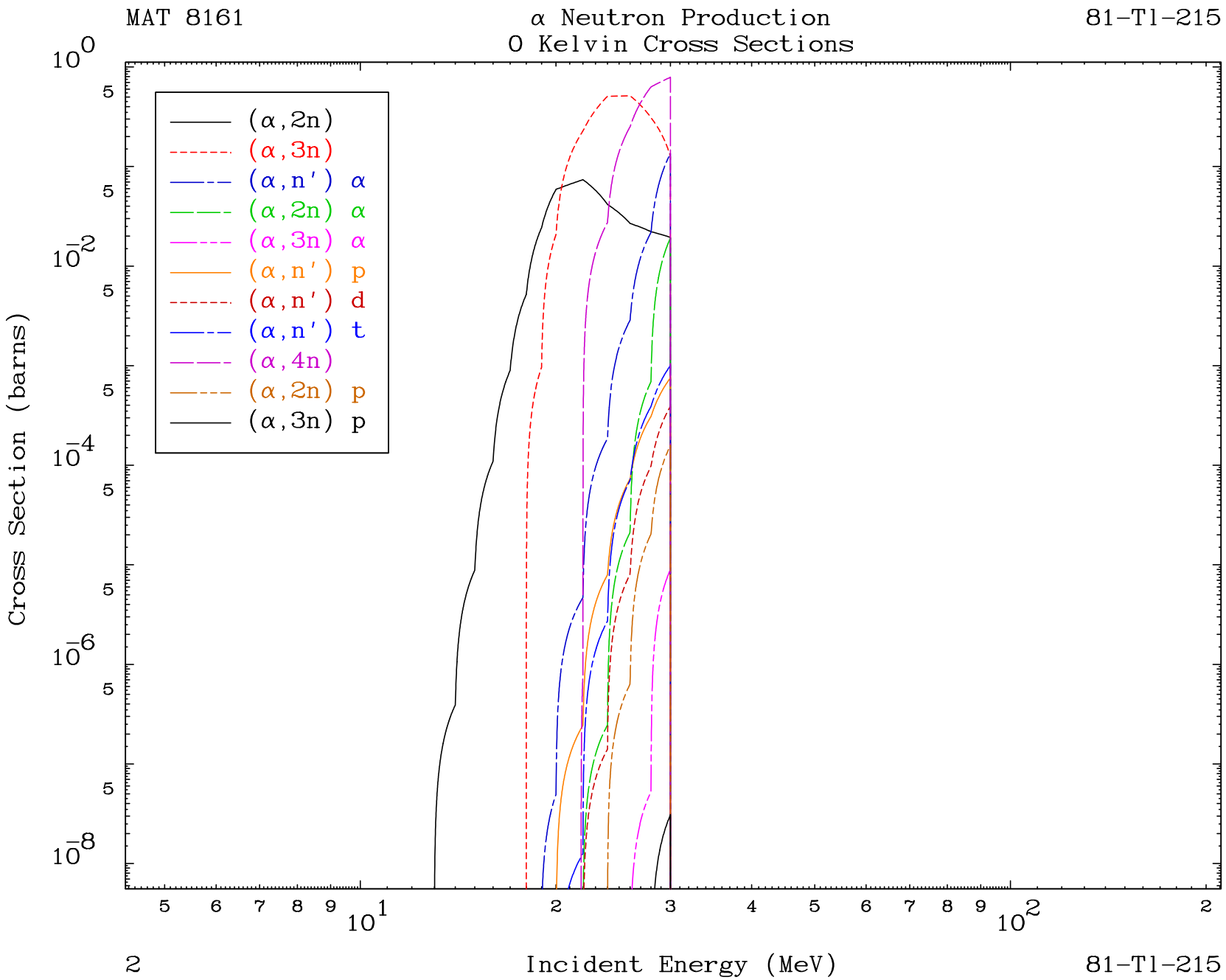
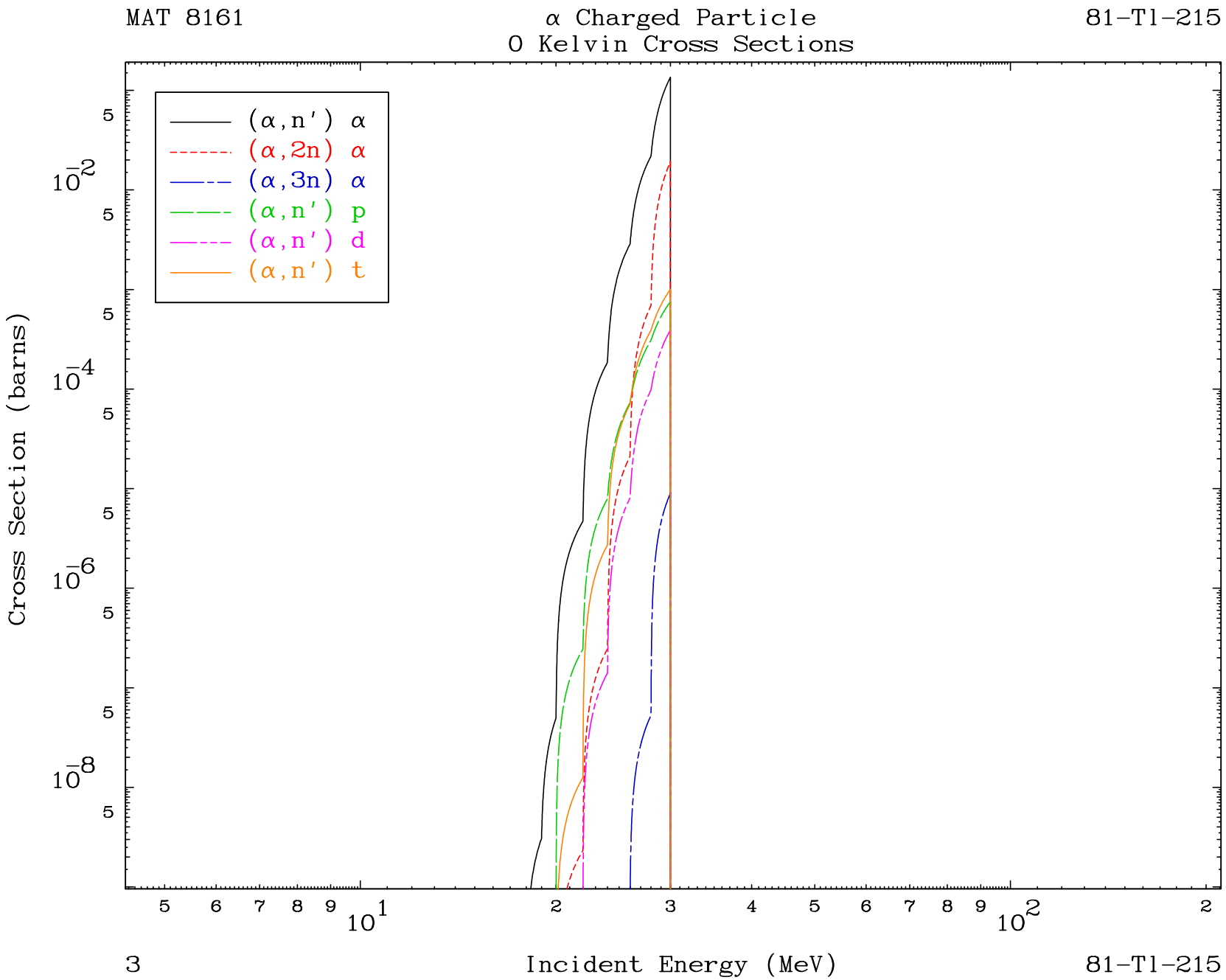
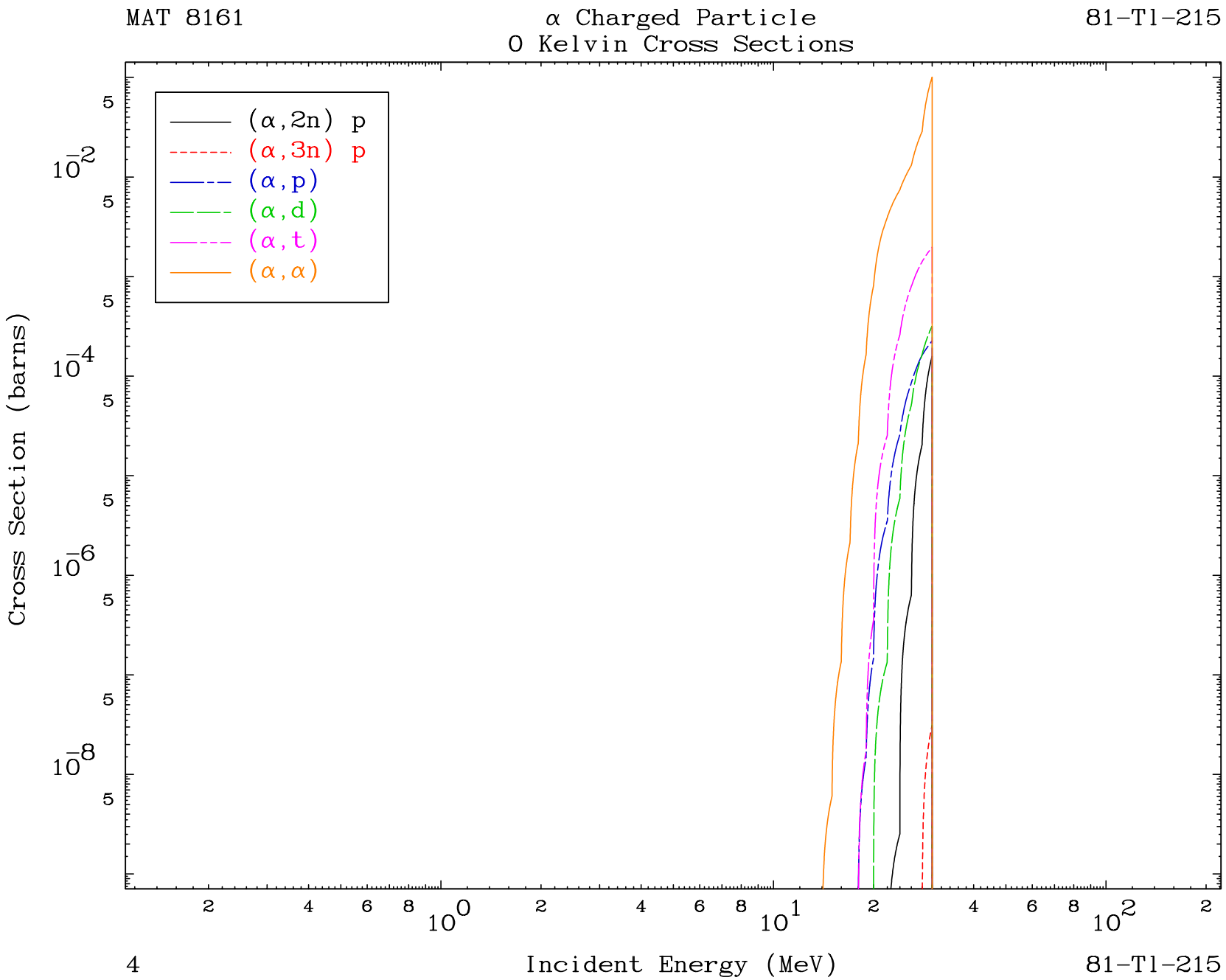
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

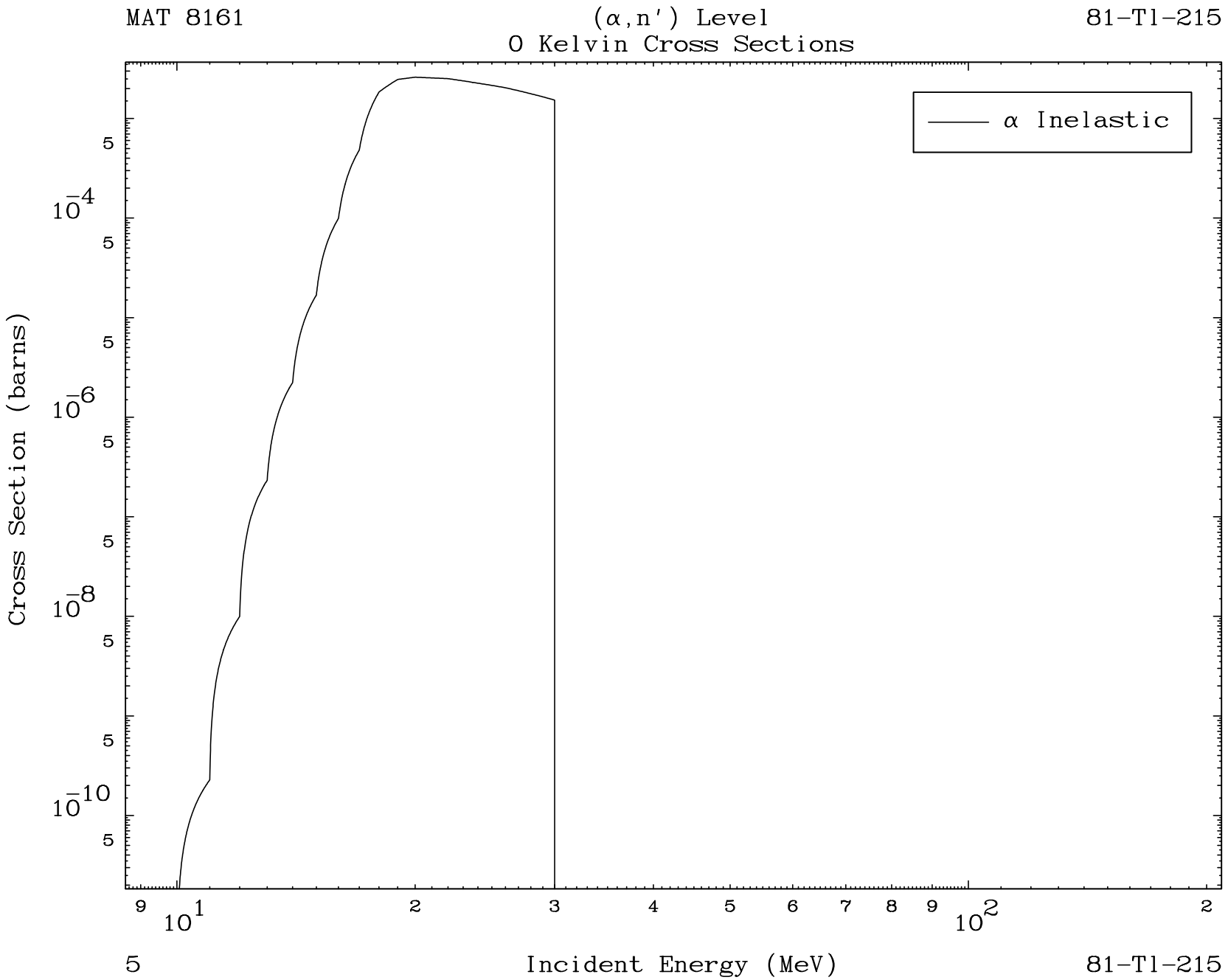
Press Mouse Button to Start

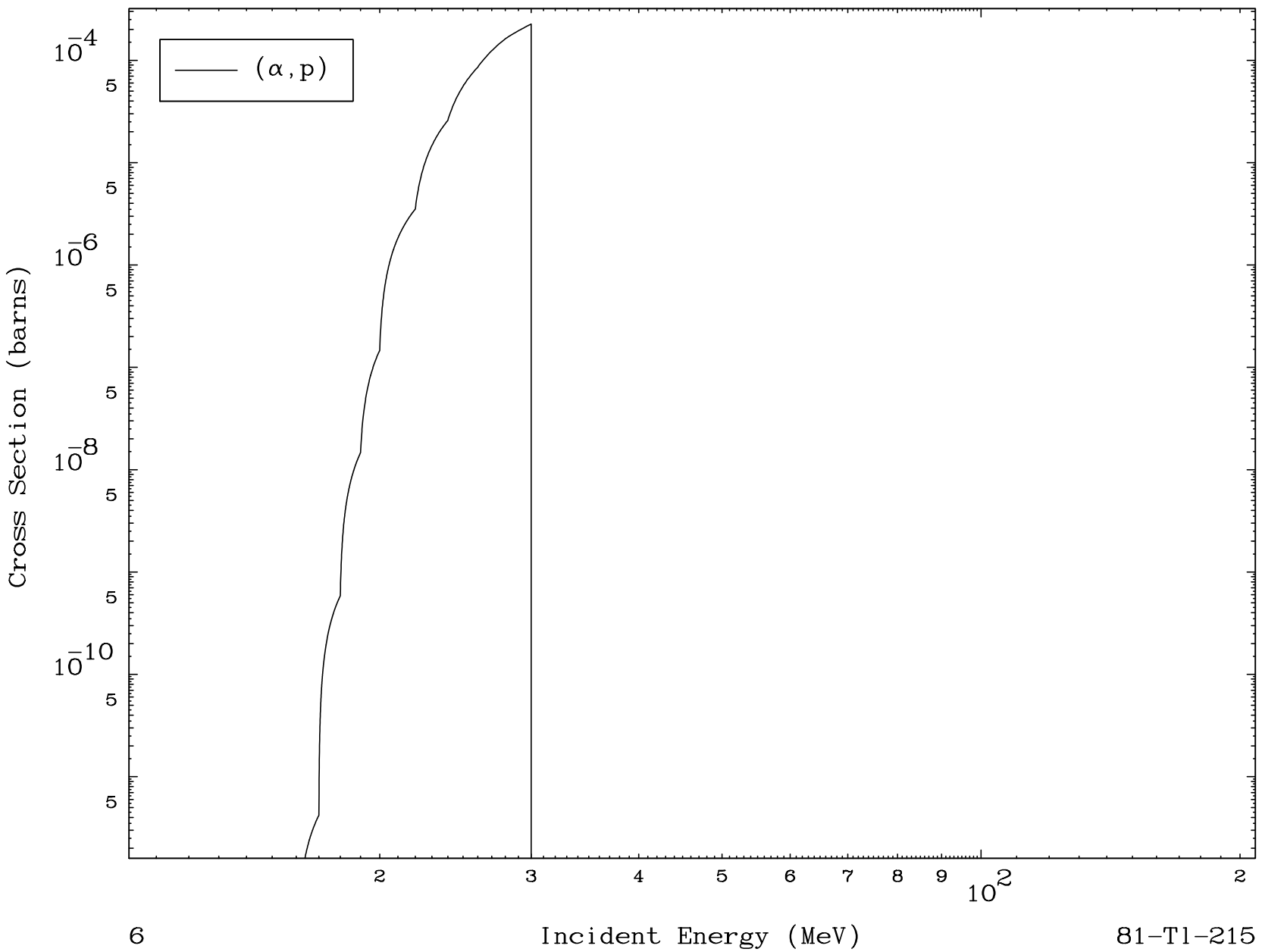

MAT 8161
α Major
81-Tl-215
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
81-Tl-215

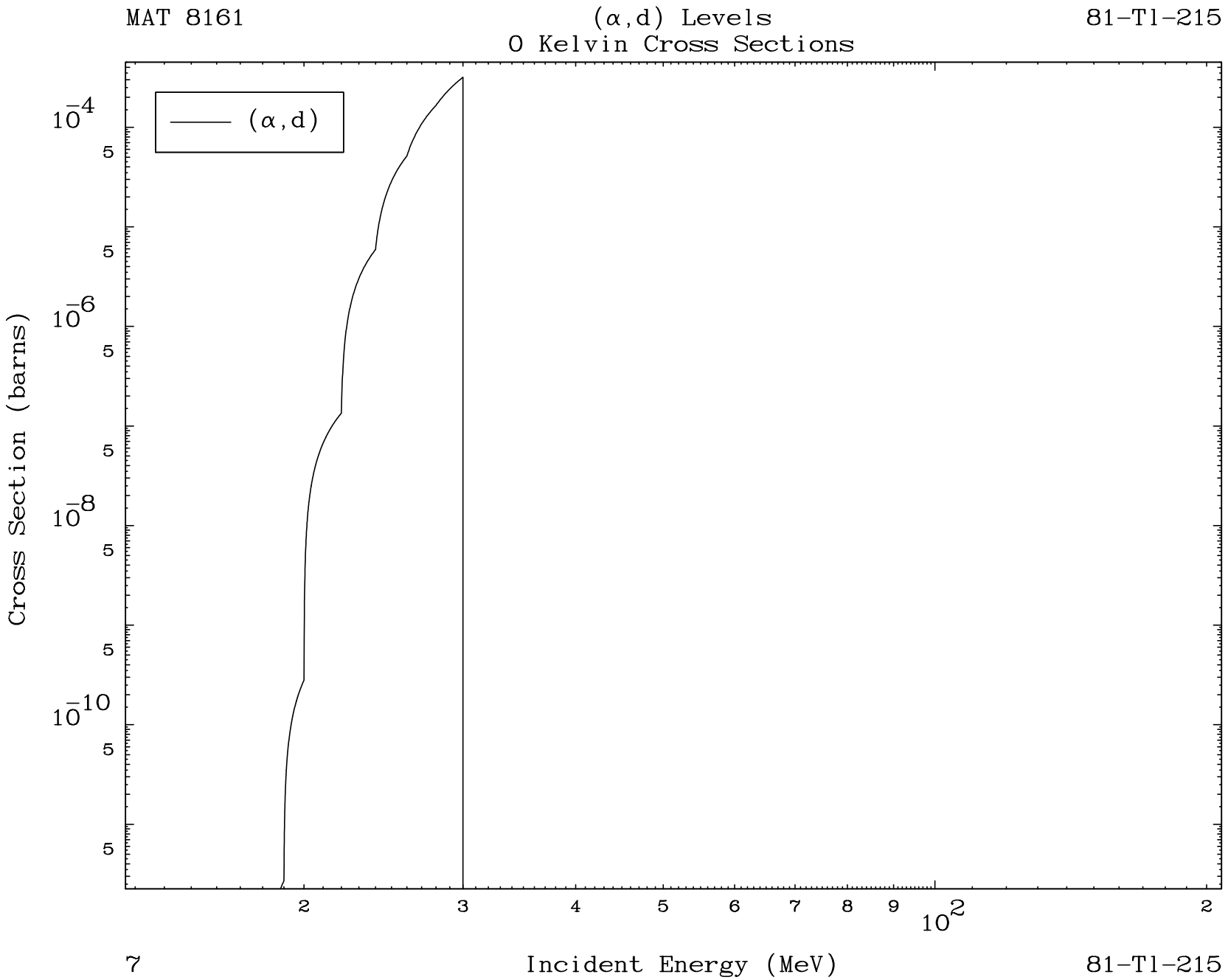

MAT 8161
α Neutron Production
0 Kelvin Cross Sections
81-Tl-215
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,4n)
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
81-Tl-215

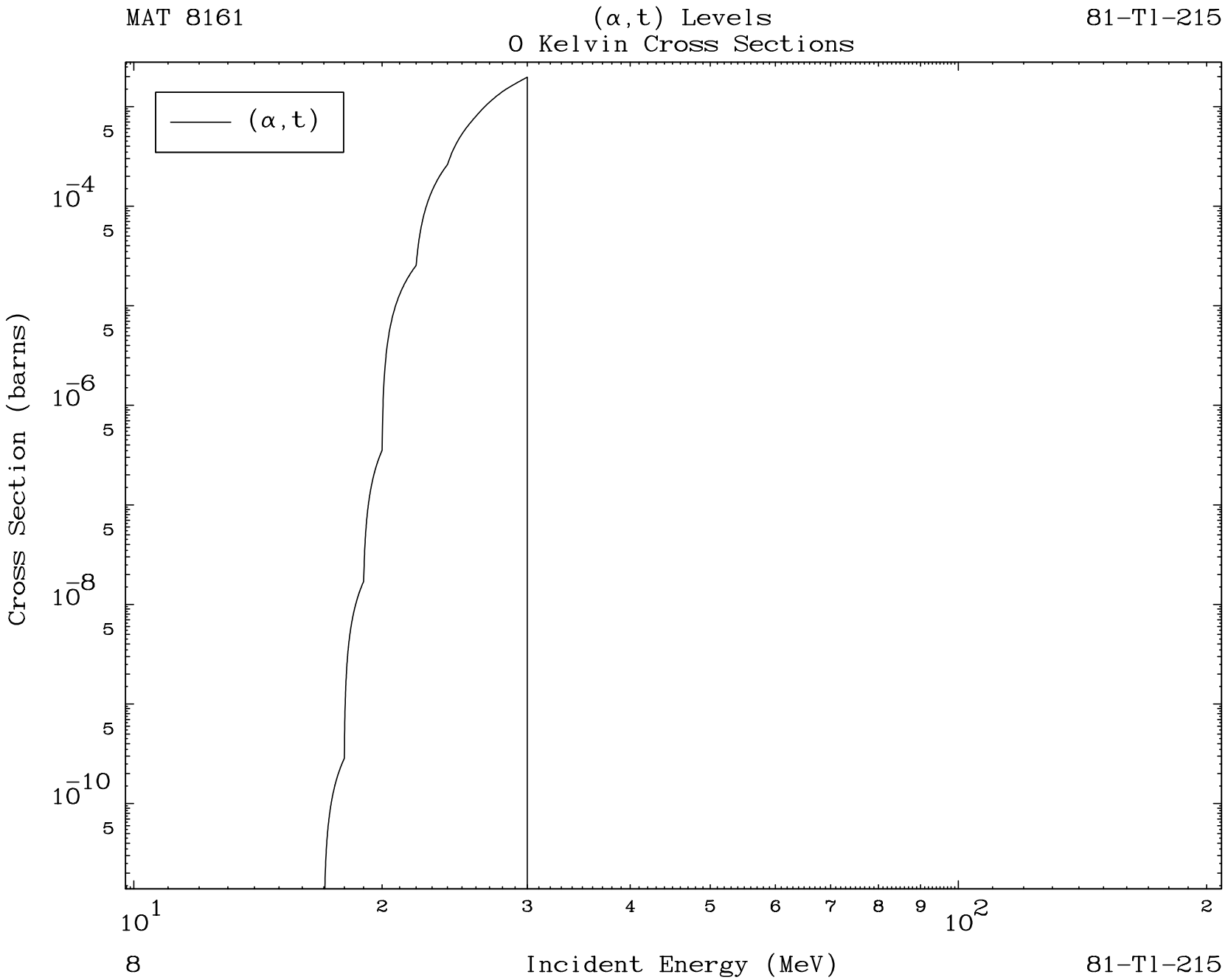

MAT 8161
α Charged Particle
0 Kelvin Cross Sections
81-Tl-215
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
Cross Section (barns)
Incident Energy (MeV)
3
81-Tl-215

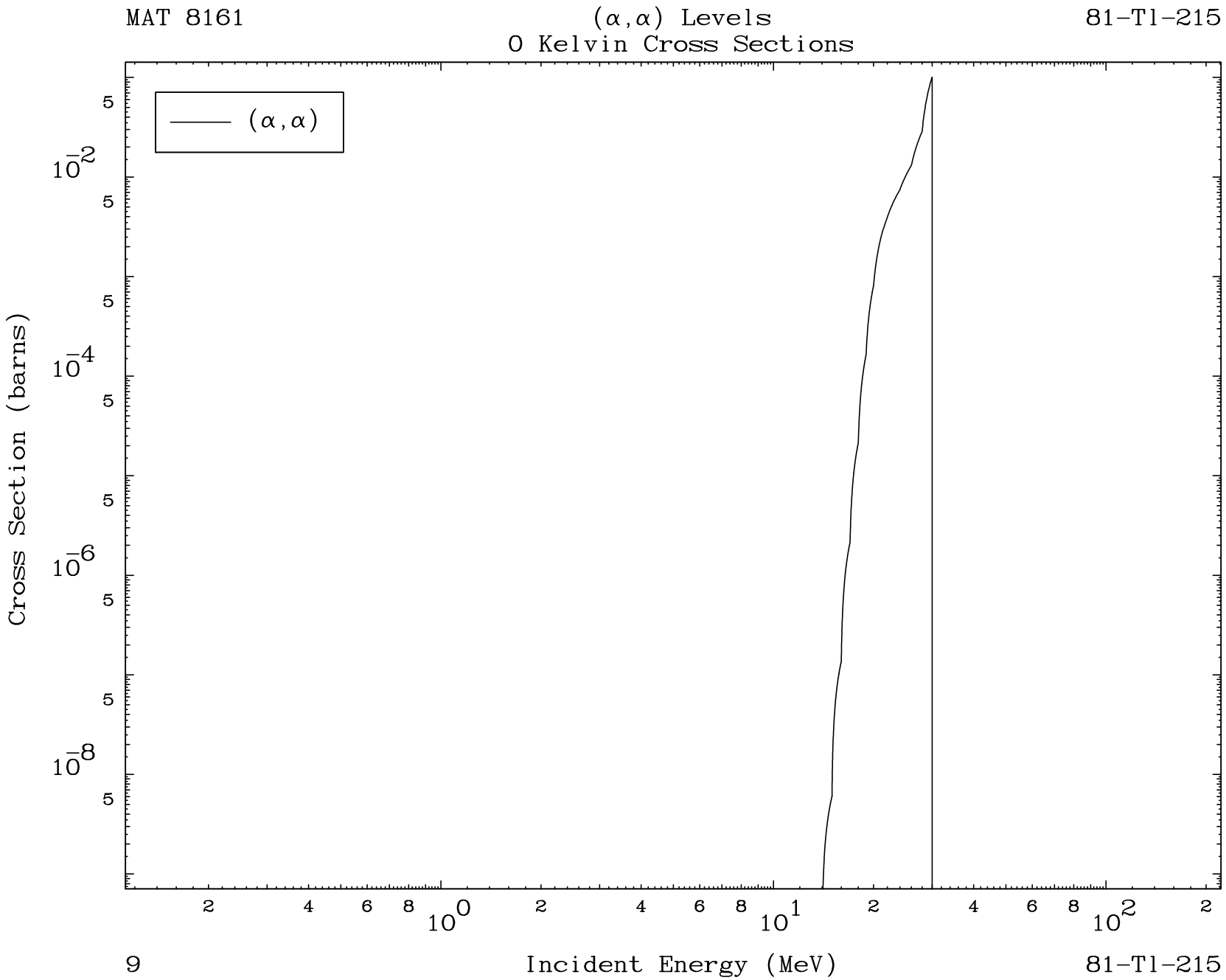

MAT 8161
α Charged Particle
0 Kelvin Cross Sections
81-Tl-215
(α,2n) p
(α,3n) p
(α,p)
(α,d)
(α,t)
(α,α)
Cross Section (barns)
Incident Energy (MeV)
4
81-Tl-215

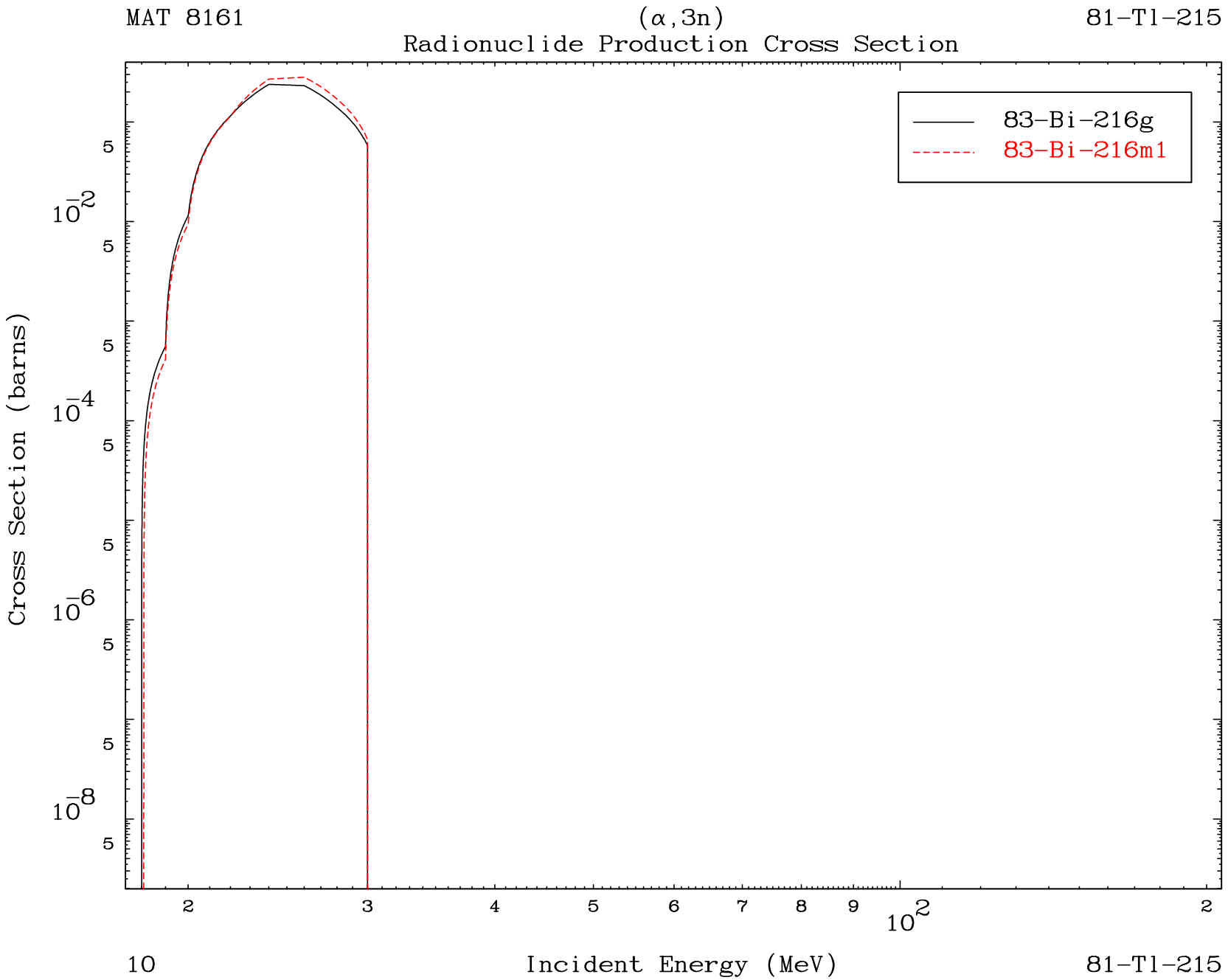

MAT 8161
(α,n') Level
81-Tl-215
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
81-Tl-215
5

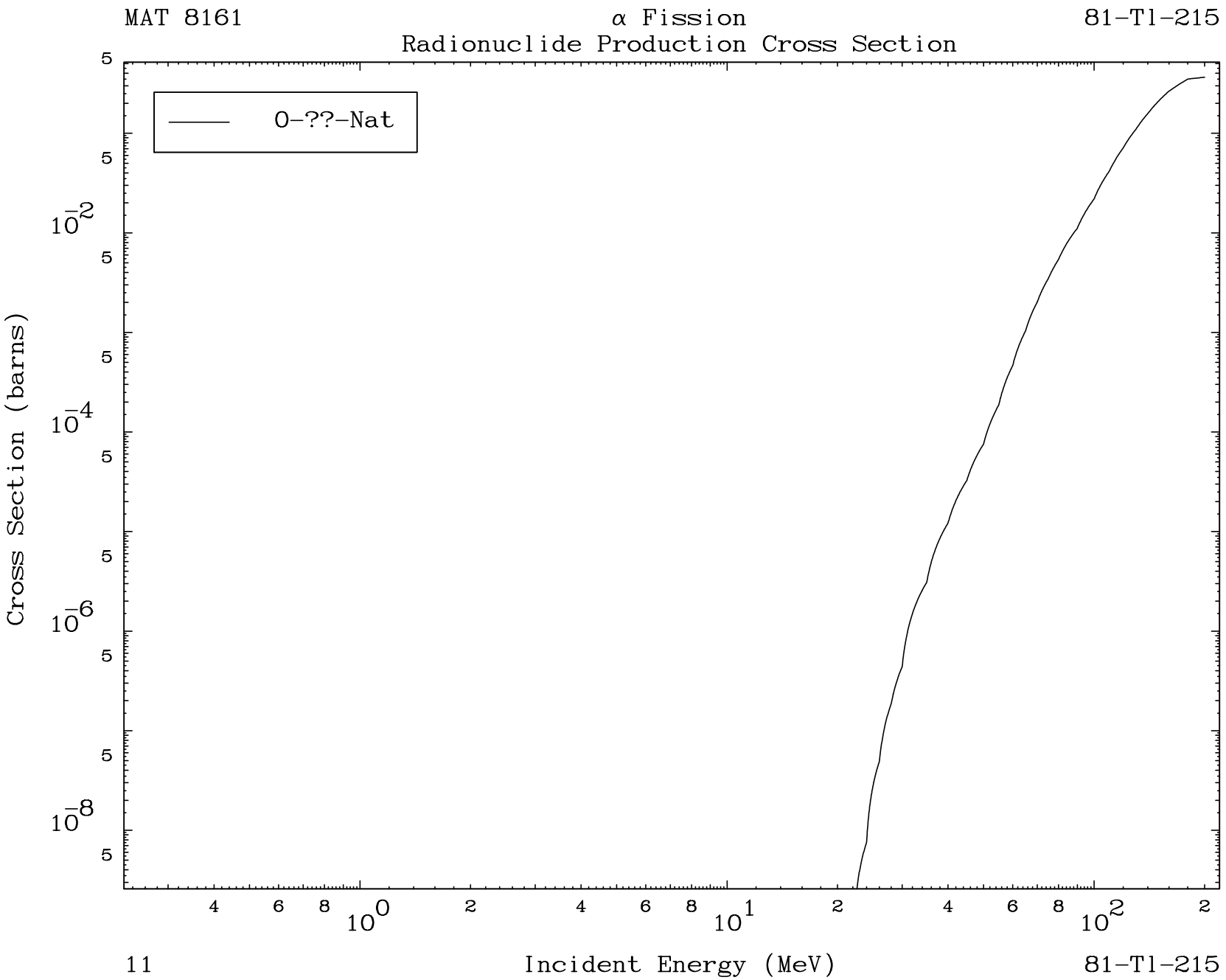

0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)

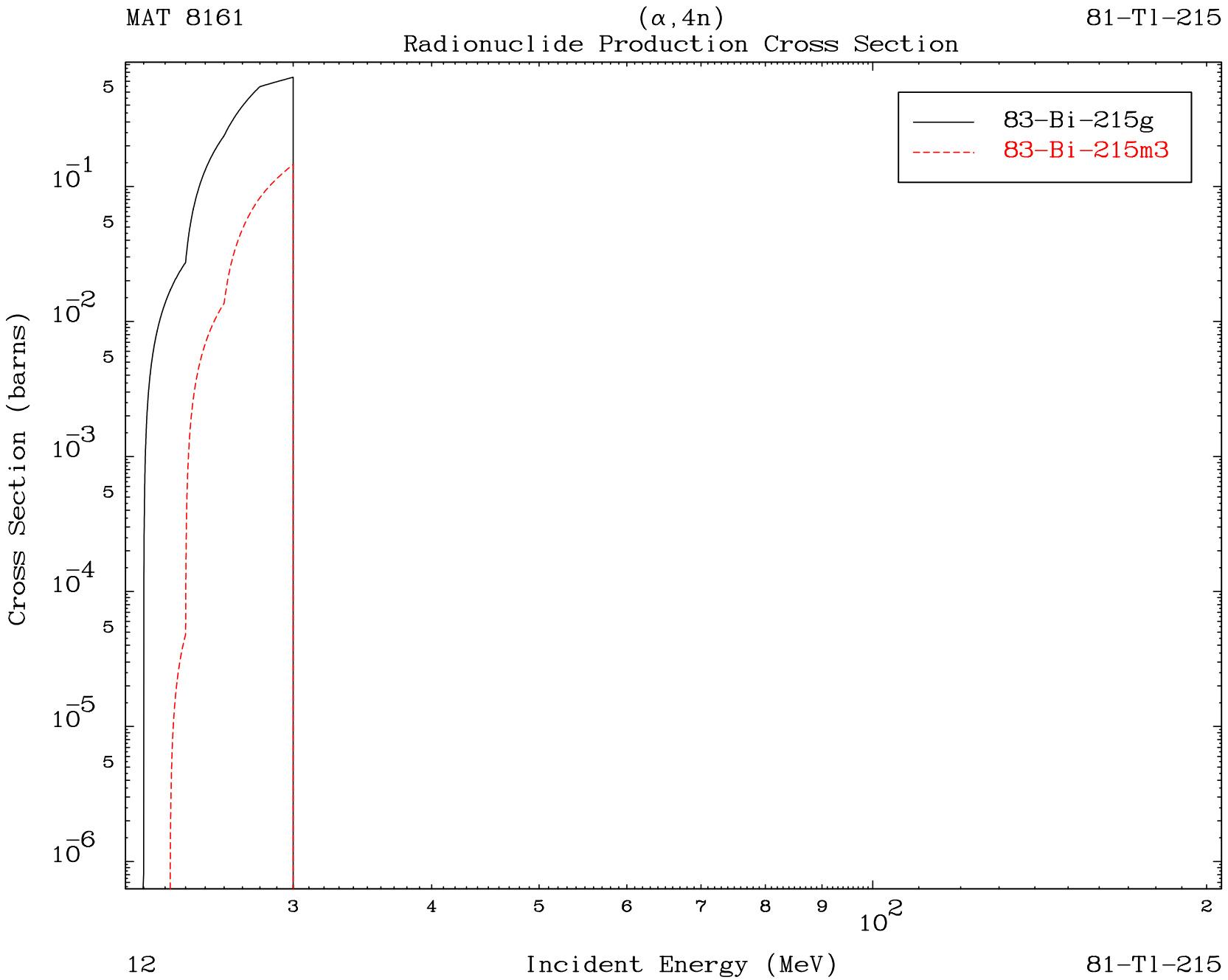

MAT 8161
(α,d) Levels
81-Tl-215
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
2
3
4
5
6
7
8
9
10 2
7
81-Tl-215


MAT 8161
(α,t) Levels
81-Tl-215
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
101
102
81-Tl-215


MAT 8161
(α,α) Levels
81-Tl-215
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
9
81-Tl-215


MAT 8161
(α,3n)
81-Tl-215
Radionuclide Production Cross Section
83-Bi-216g
83-Bi-216m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
81-Tl-215


MAT 8161
α Fission
81-Tl-215
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
11
81-Tl-215


MAT 8161
(α,4n)
81-Tl-215
Radionuclide Production Cross Section
83-Bi-215g
83-Bi-215m3
Cross Section (barns)
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
81-Tl-215