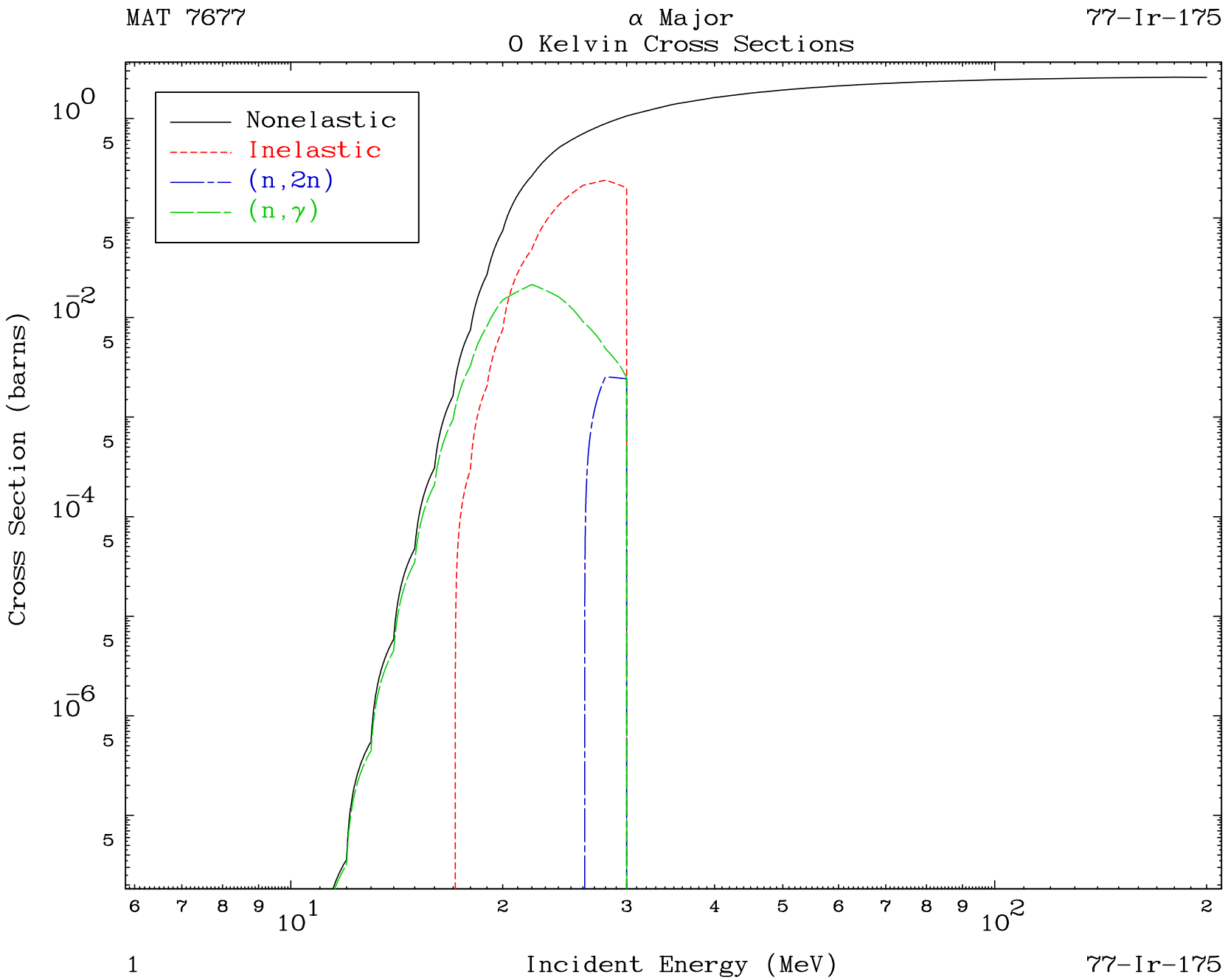
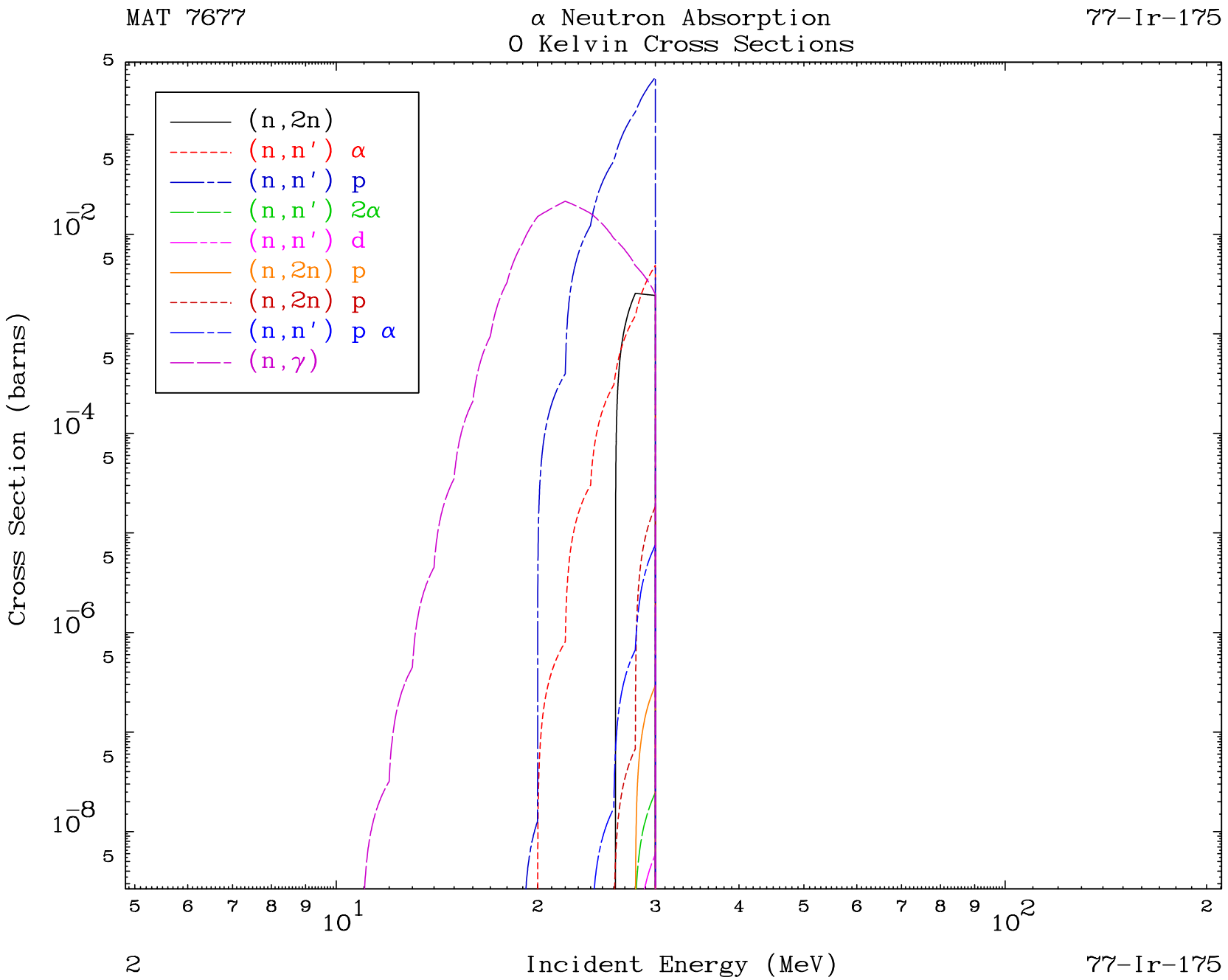
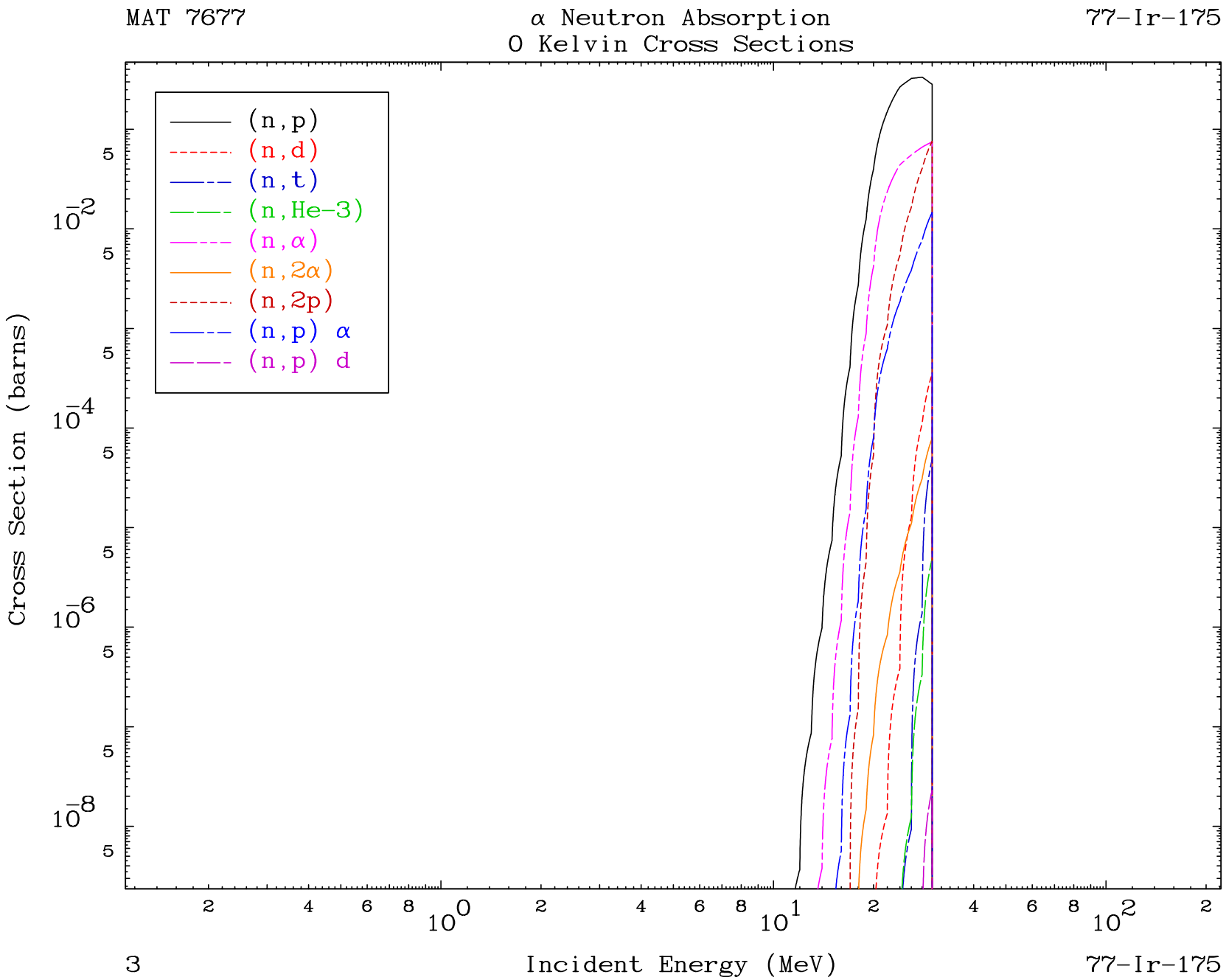
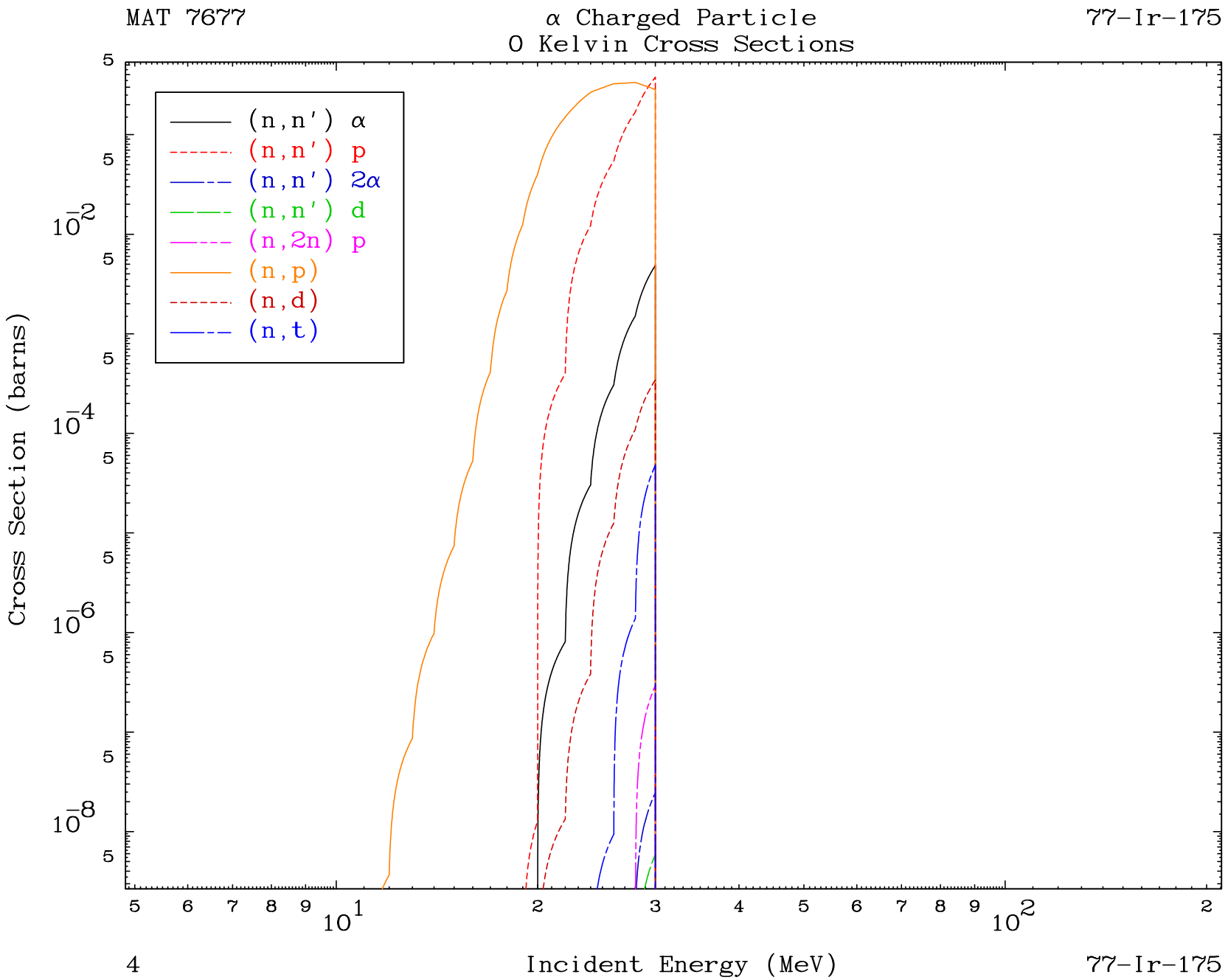
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

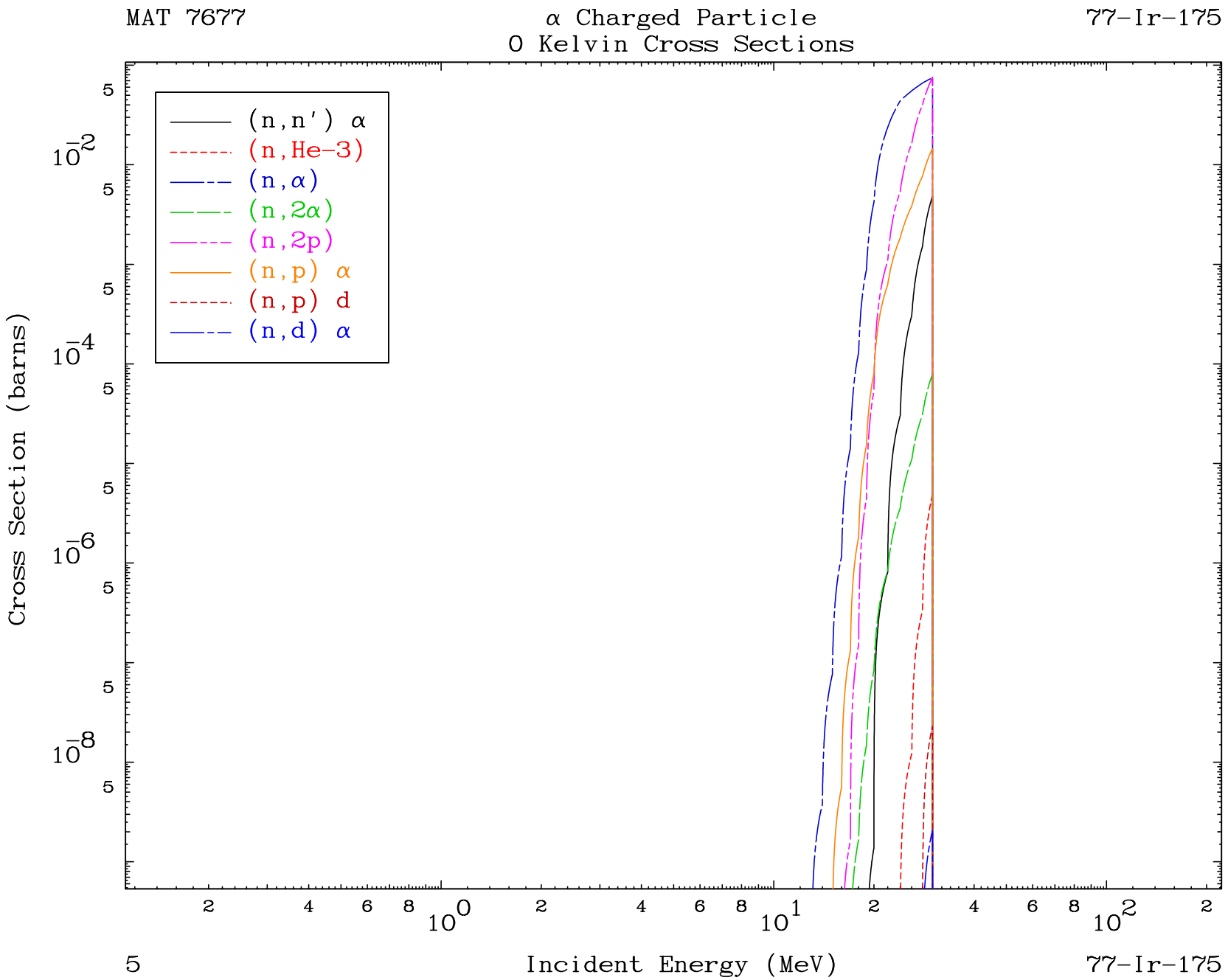
Press Mouse Button to Start

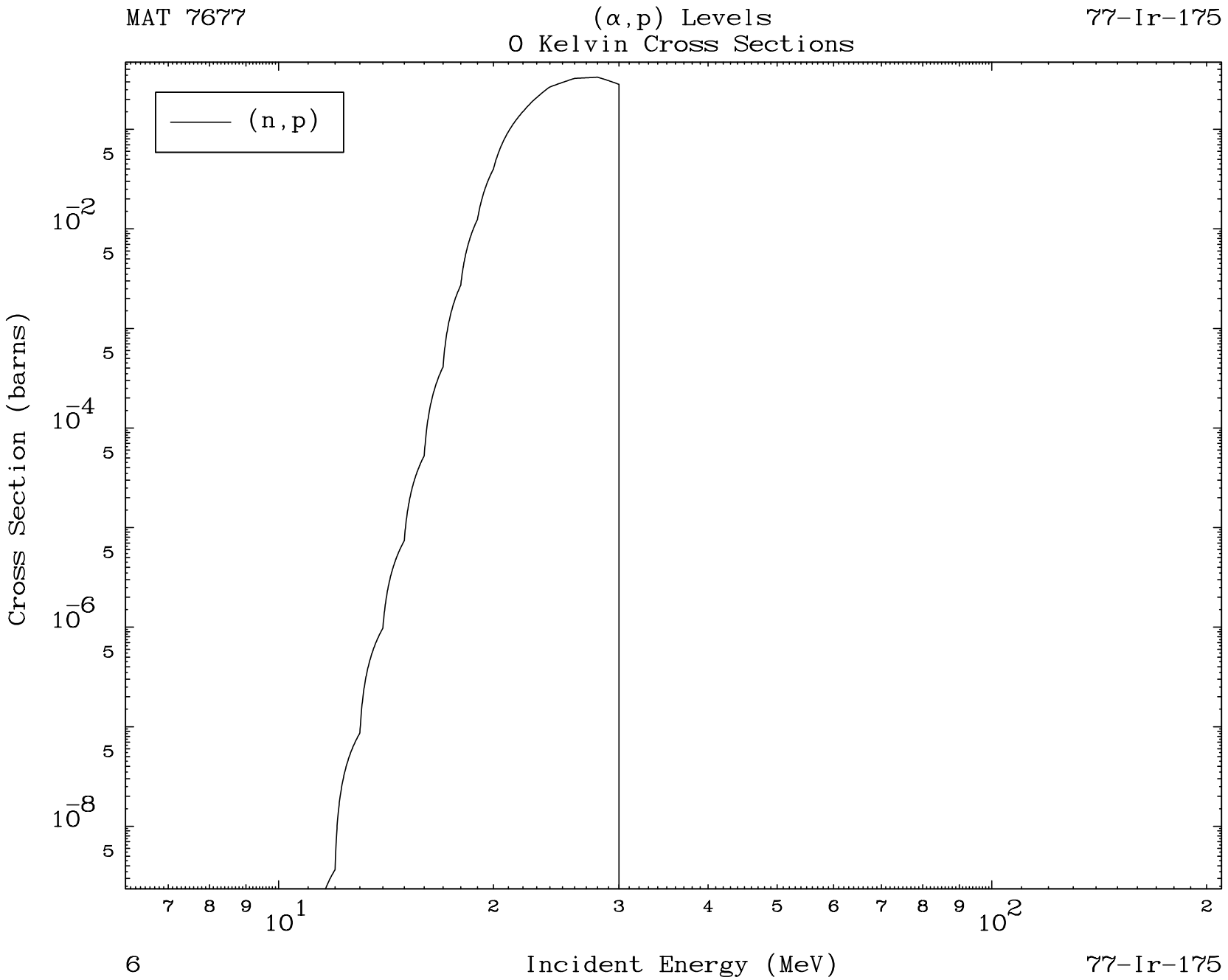

MAT 7677
α Major
77-Ir-175
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
77-Ir-175

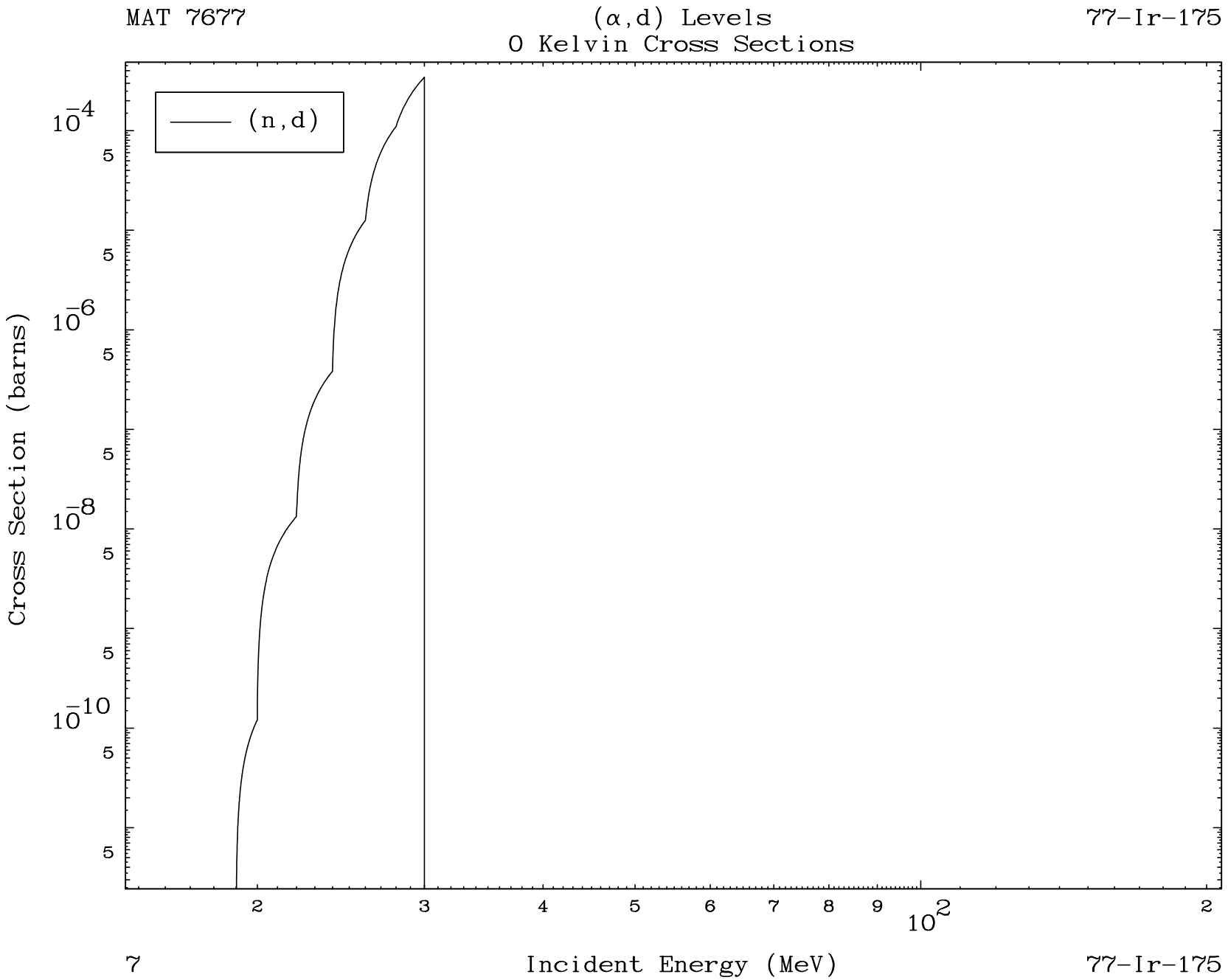

MAT 7677
α Neutron Absorption
0 Kelvin Cross Sections
77-Ir-175
(n,2n)
(n,n') α
(n,n') p
(n,n') 2α
(n,n') d
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
77-Ir-175


MAT 7677
α Neutron Absorption
0 Kelvin Cross Sections
77-Ir-175
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
3
77-Ir-175

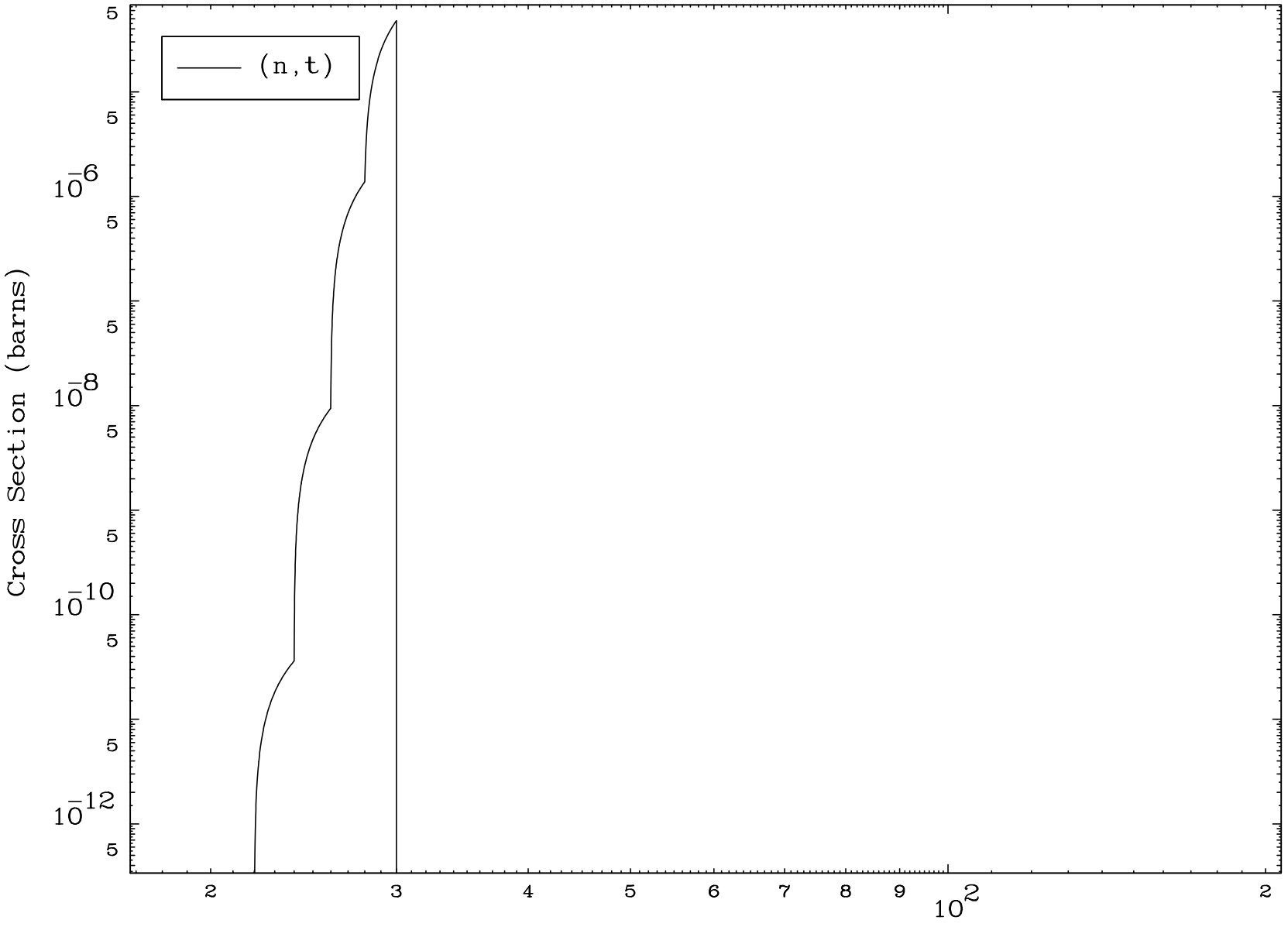

MAT 7677
α Charged Particle
0 Kelvin Cross Sections
77-Ir-175
(n,n') α
(n,n') p
(n,n') 2α
(n,n') d
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
4
77-Ir-175

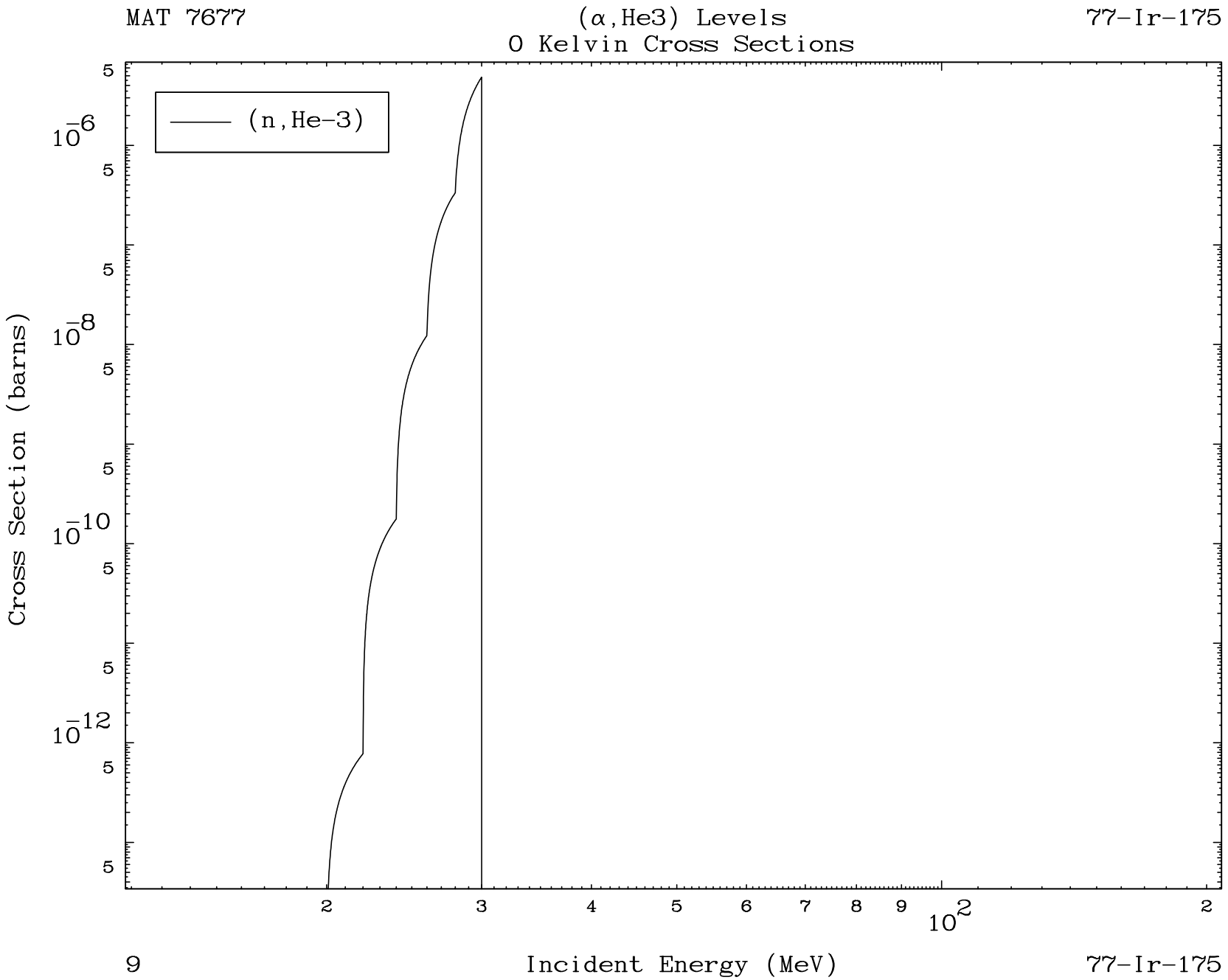

MAT 7677
α Charged Particle
0 Kelvin Cross Sections
77-Ir-175
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
77-Ir-175

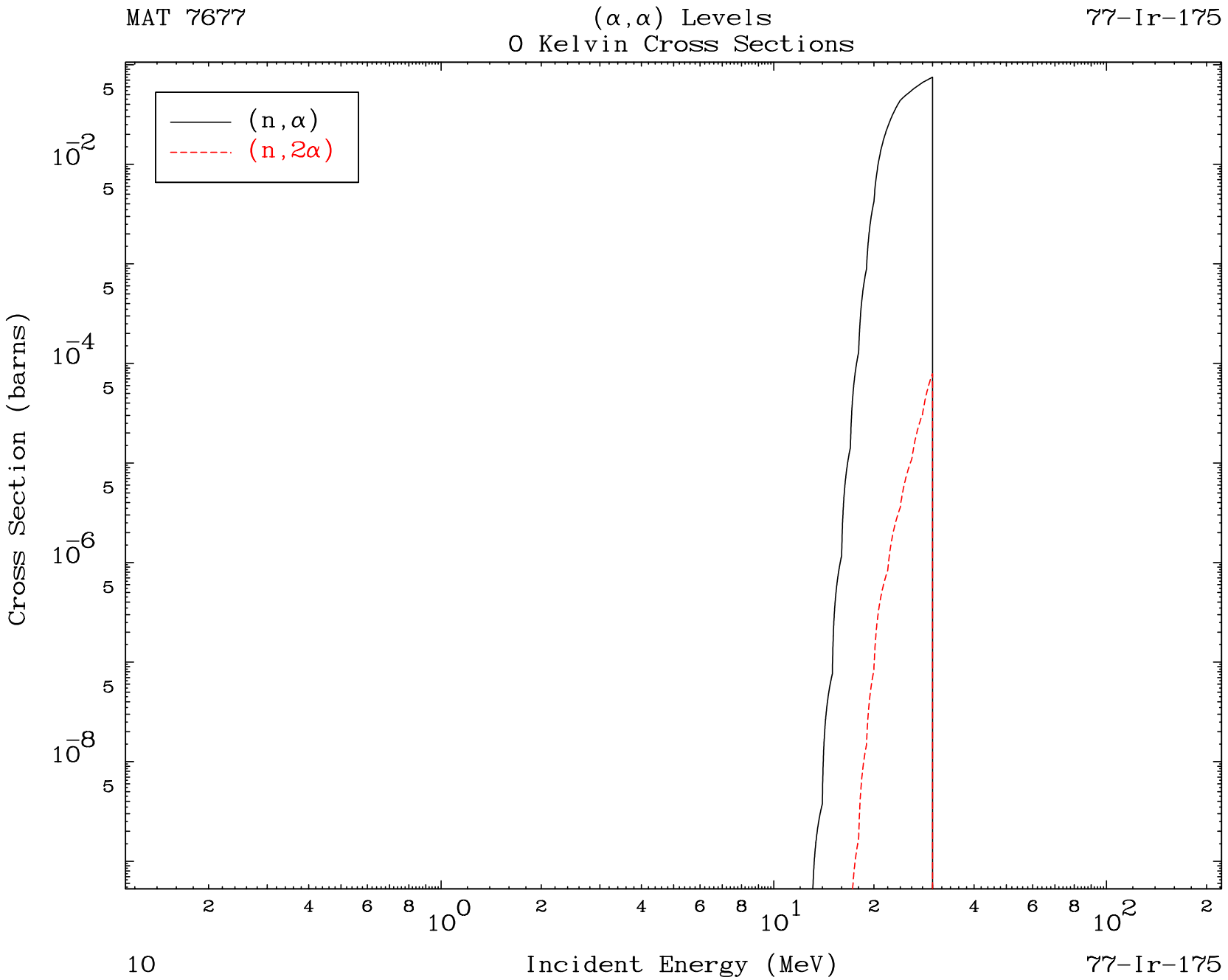

MAT 7677
(α,p) Levels
77-Ir-175
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
77-Ir-175

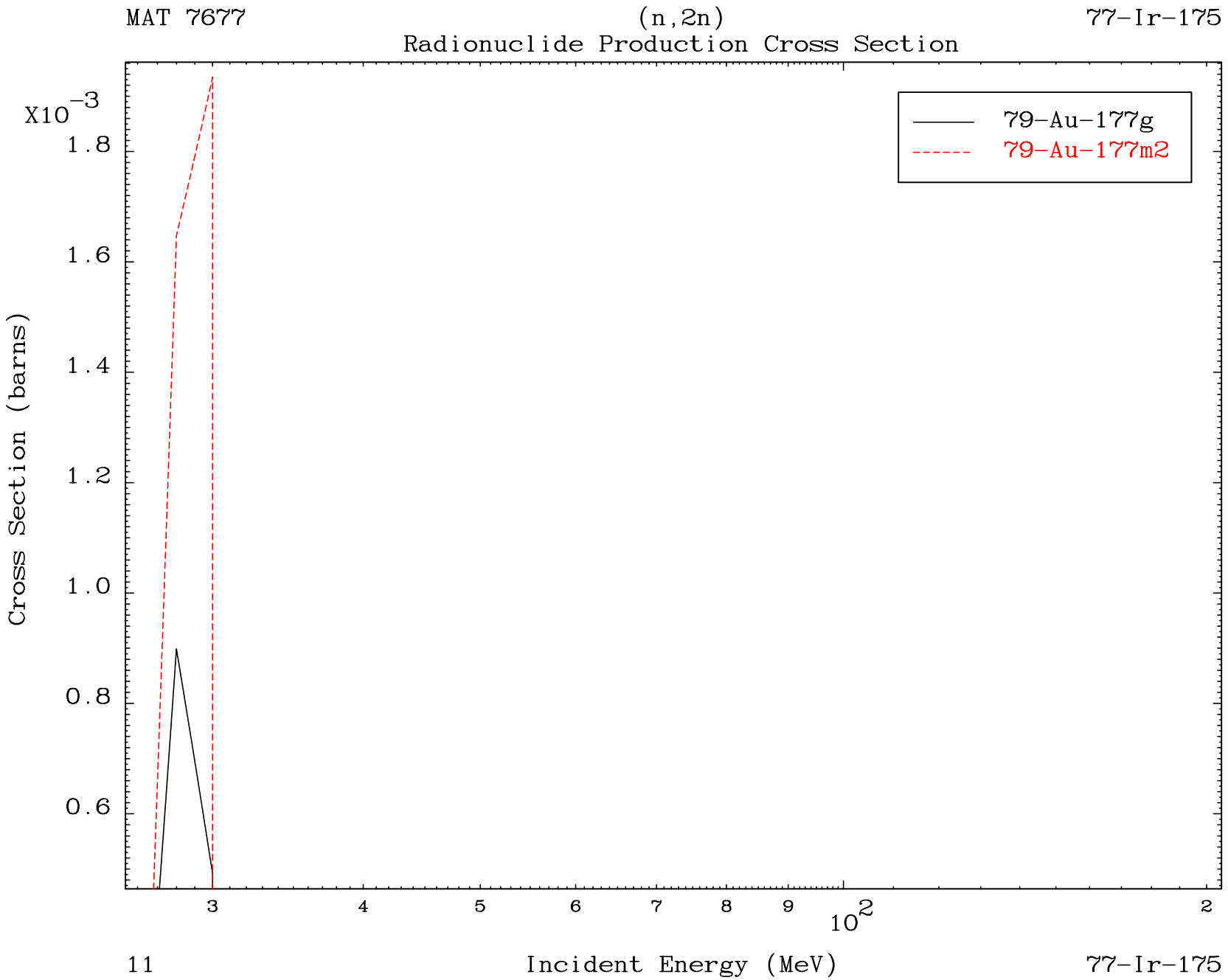

MAT 7677
(α,d) Levels
77-Ir-175
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
2
3
4
5
6
7
8
9
10 2
7
77-Ir-175

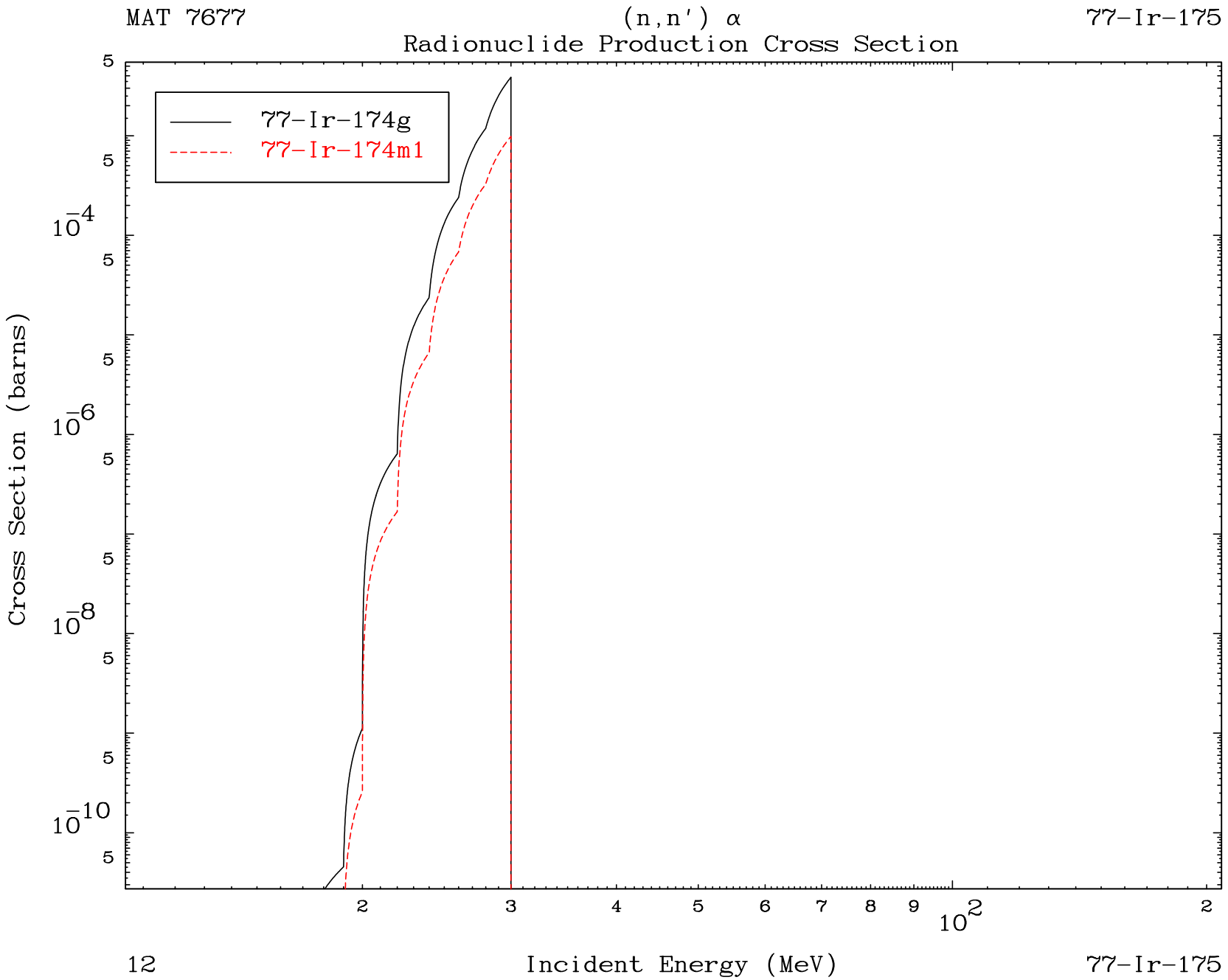
0 Kelvin Cross Sections

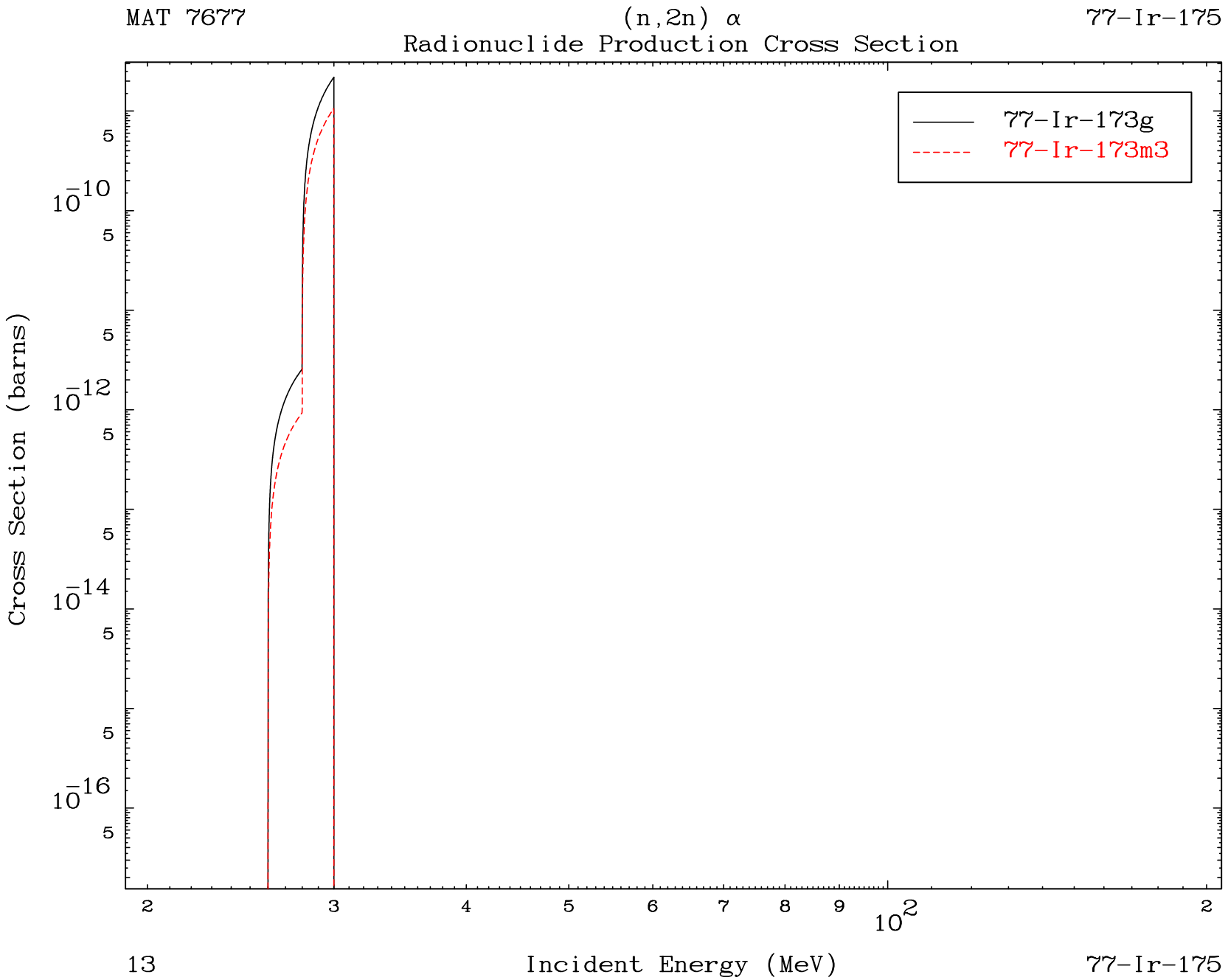



MAT 7677
(α,He3) Levels
77-Ir-175
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
77-Ir-175


MAT 7677
(α,α) Levels
77-Ir-175
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
77-Ir-175


MAT 7677
(n,2n)
77-Ir-175
Radionuclide Production Cross Section
X10-3
1.8
1.6
1.4
1.2
1.0
0.8
0.6
Cross Section (barns)
79-Au-177g
79-Au-177m2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
77-Ir-175


MAT 7677
(n,n') α
77-Ir-175
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
77-Ir-175


MAT 7677
(n,2n) α
77-Ir-175
Radionuclide Production Cross Section
77-Ir-173g
77-Ir-173m3
Cross Section (barns)
10-10
10-12
10-14
10-16
5
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
77-Ir-175