Program EVALPLOT
(Version 2021-1)
by
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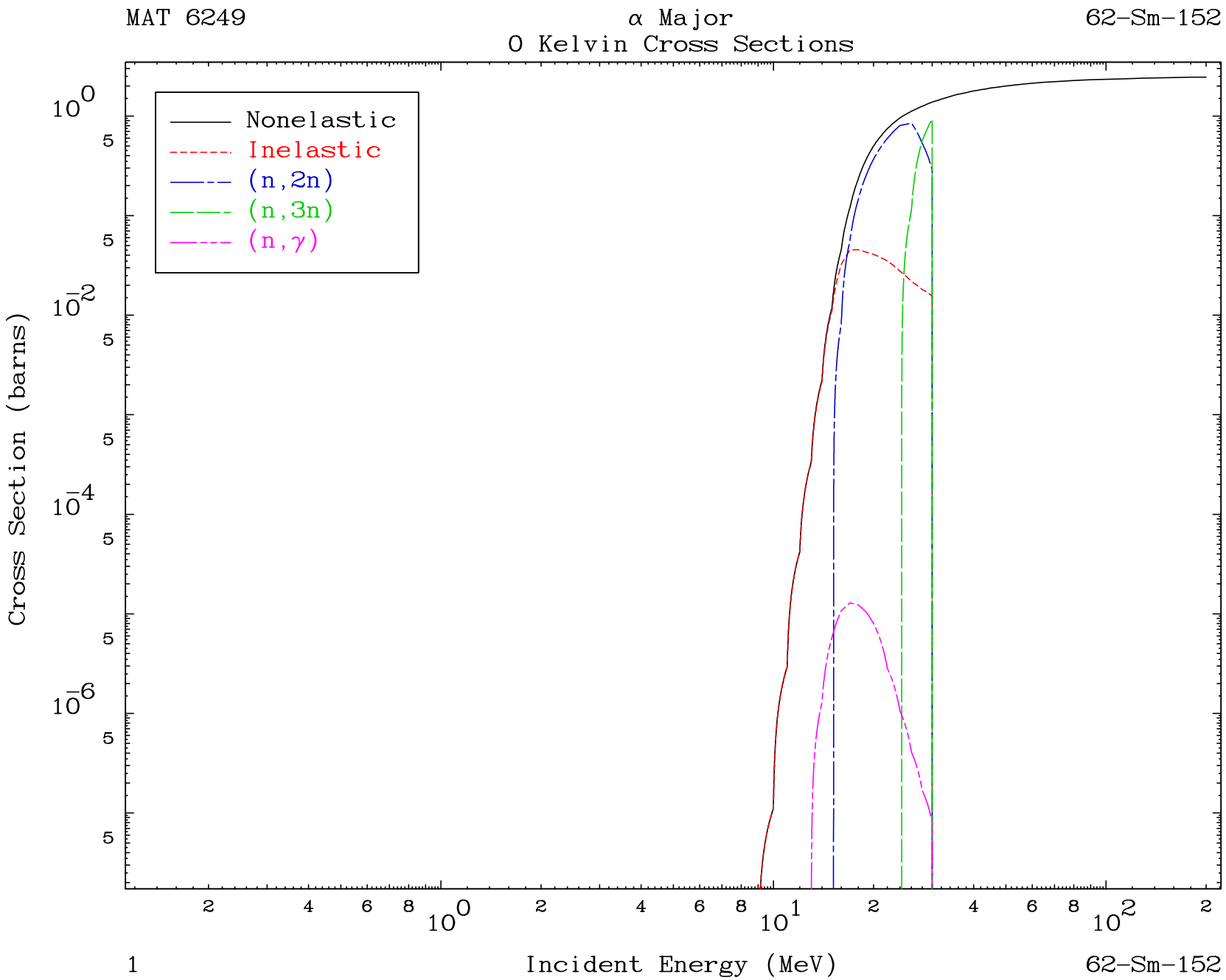
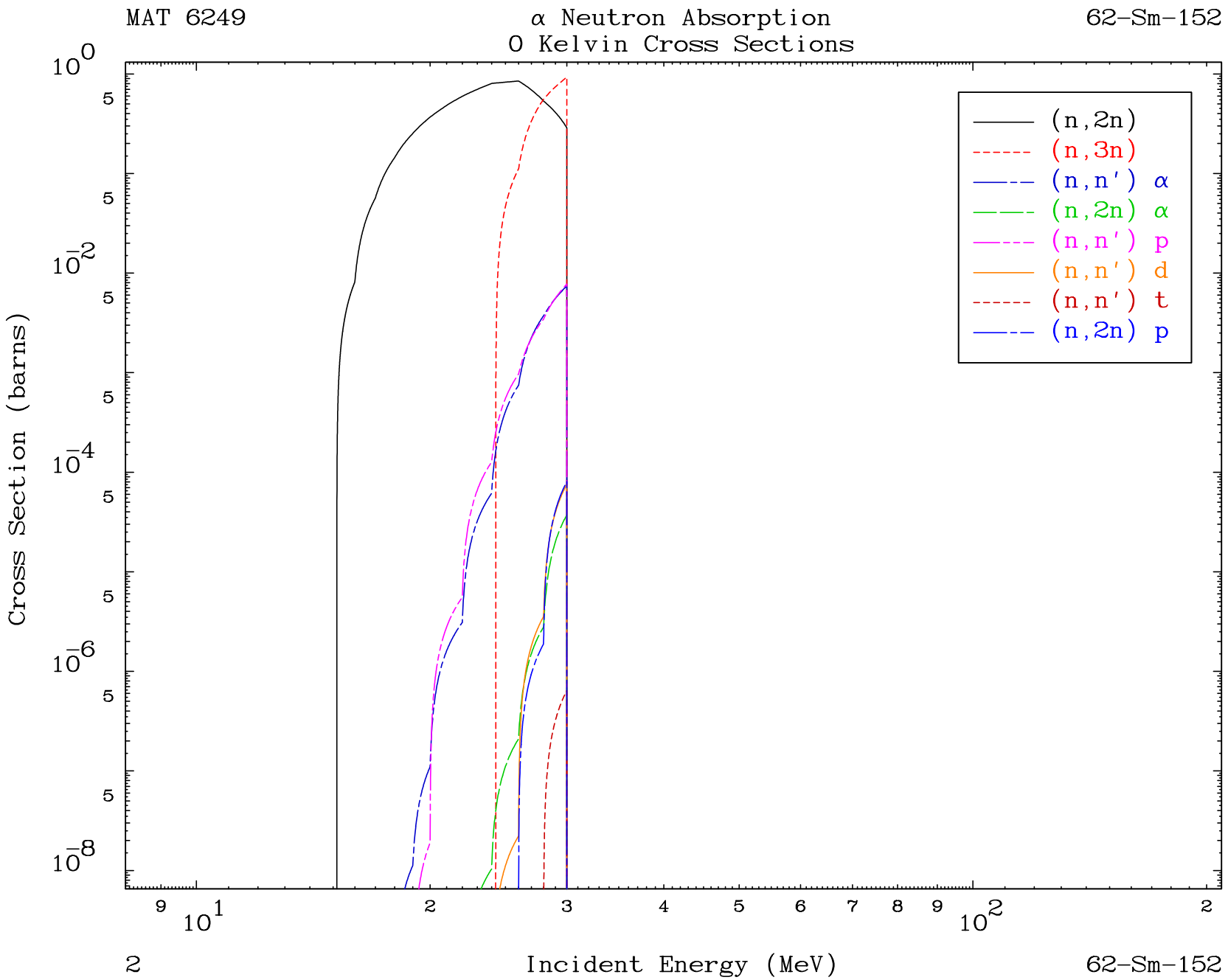
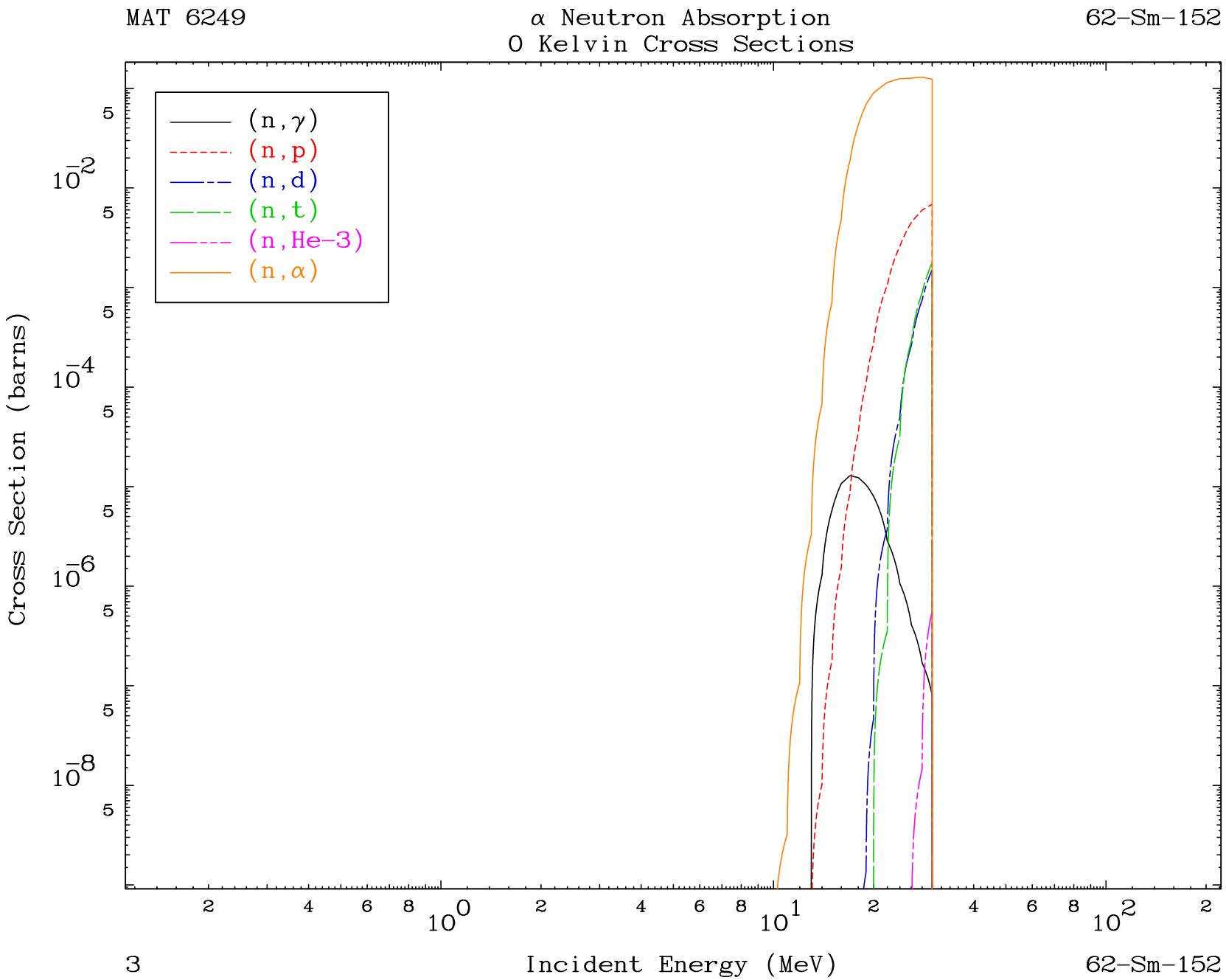
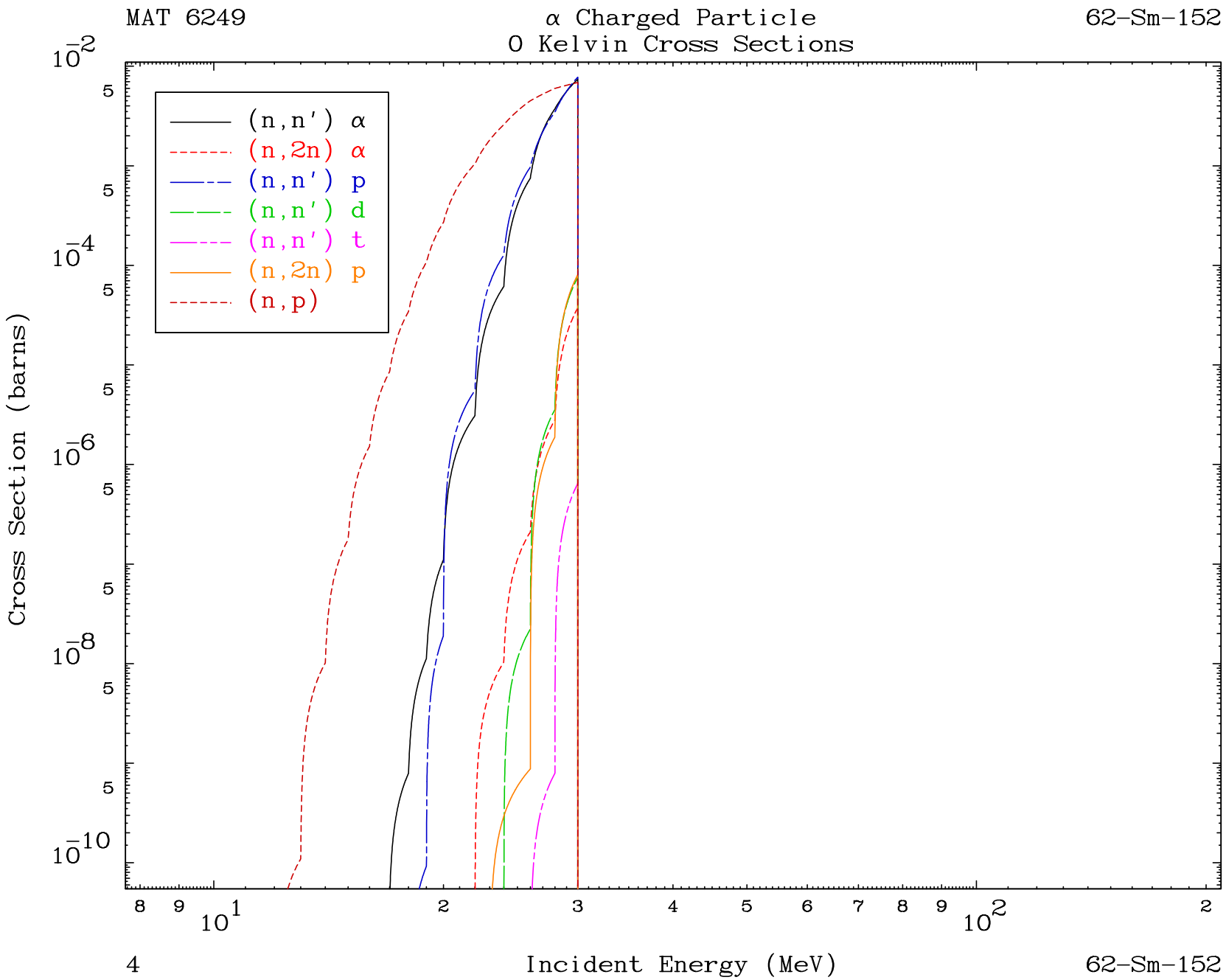
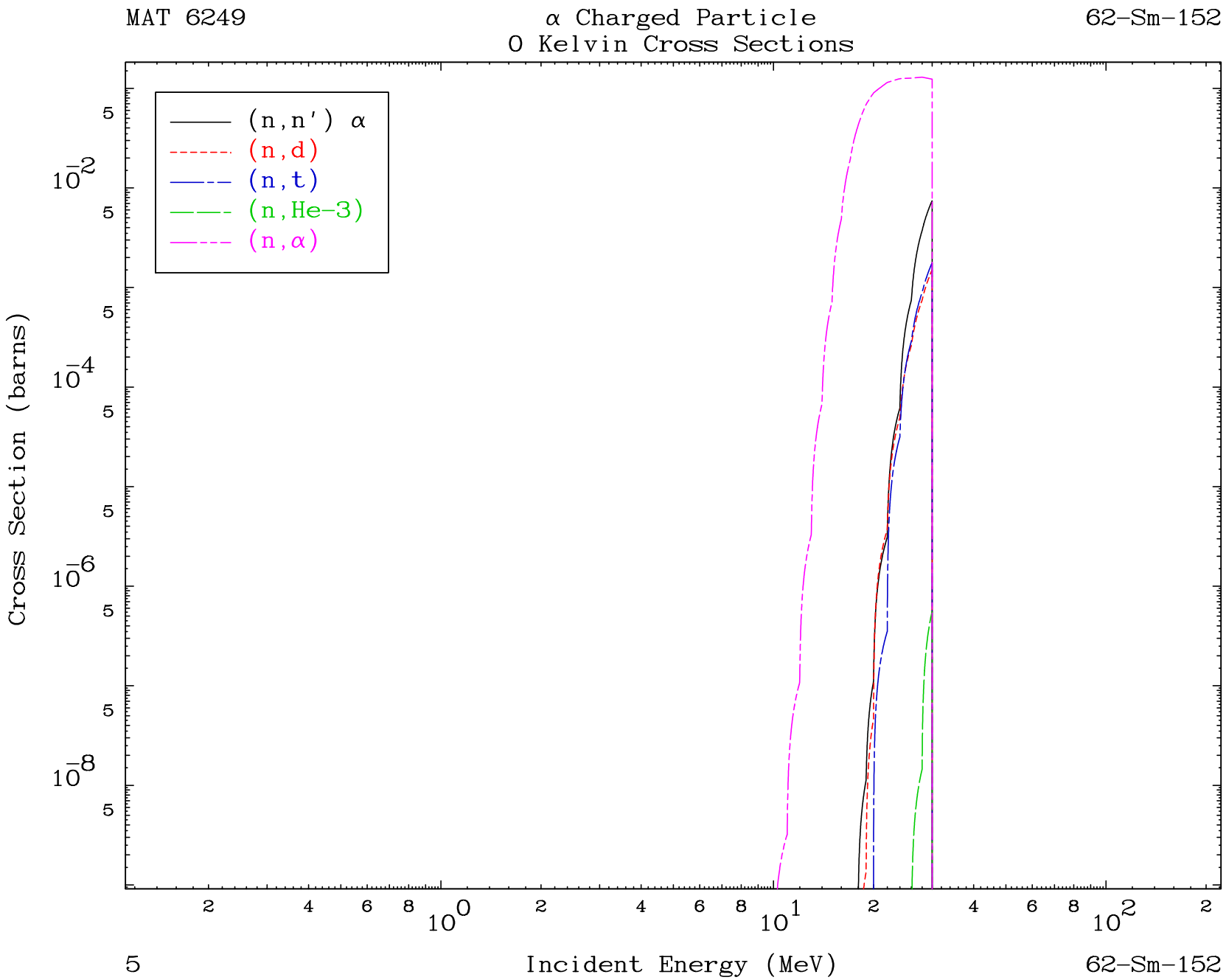
Press Mouse Button to Start

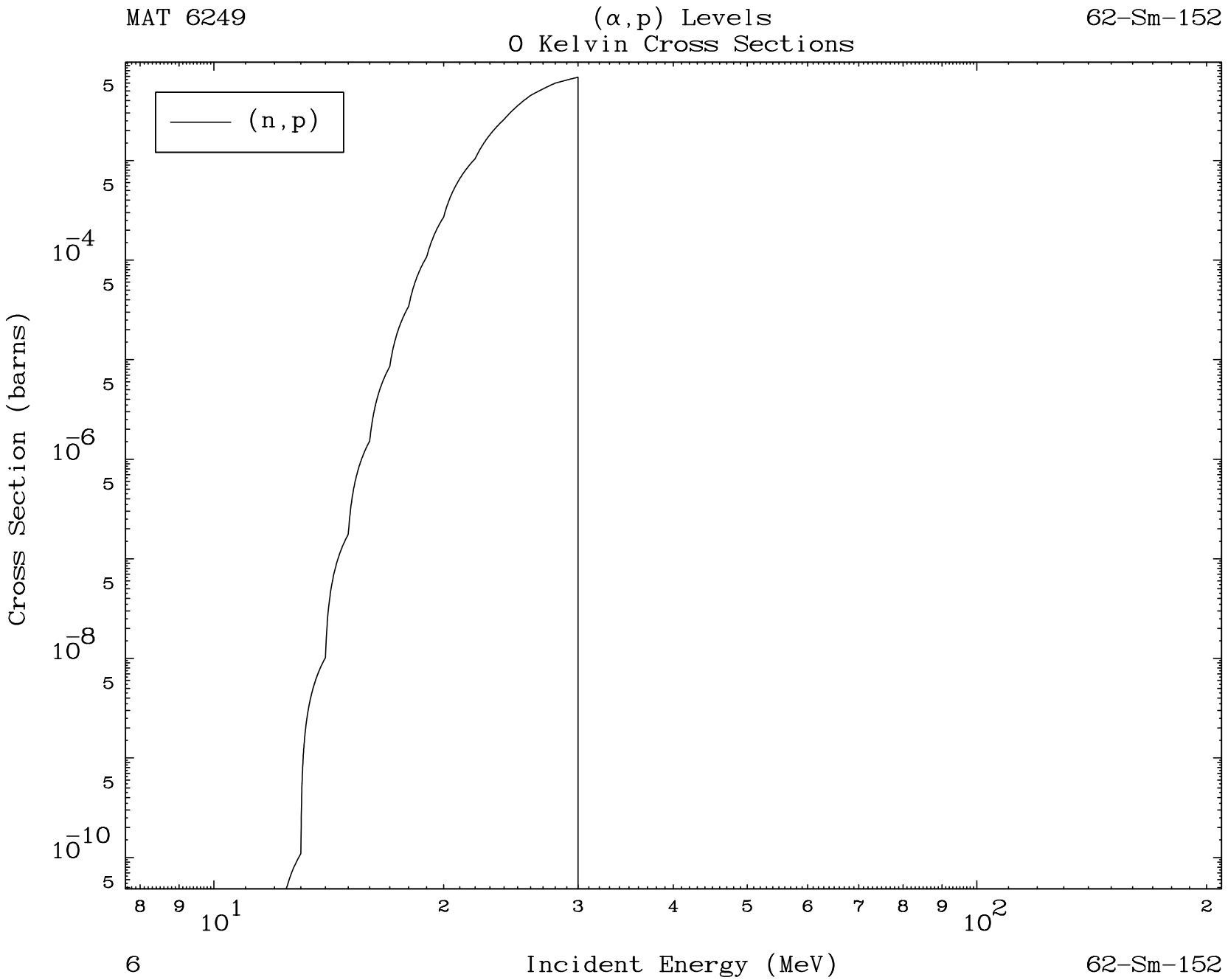

MAT 6249
α Major
62-Sm-152
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-152
1

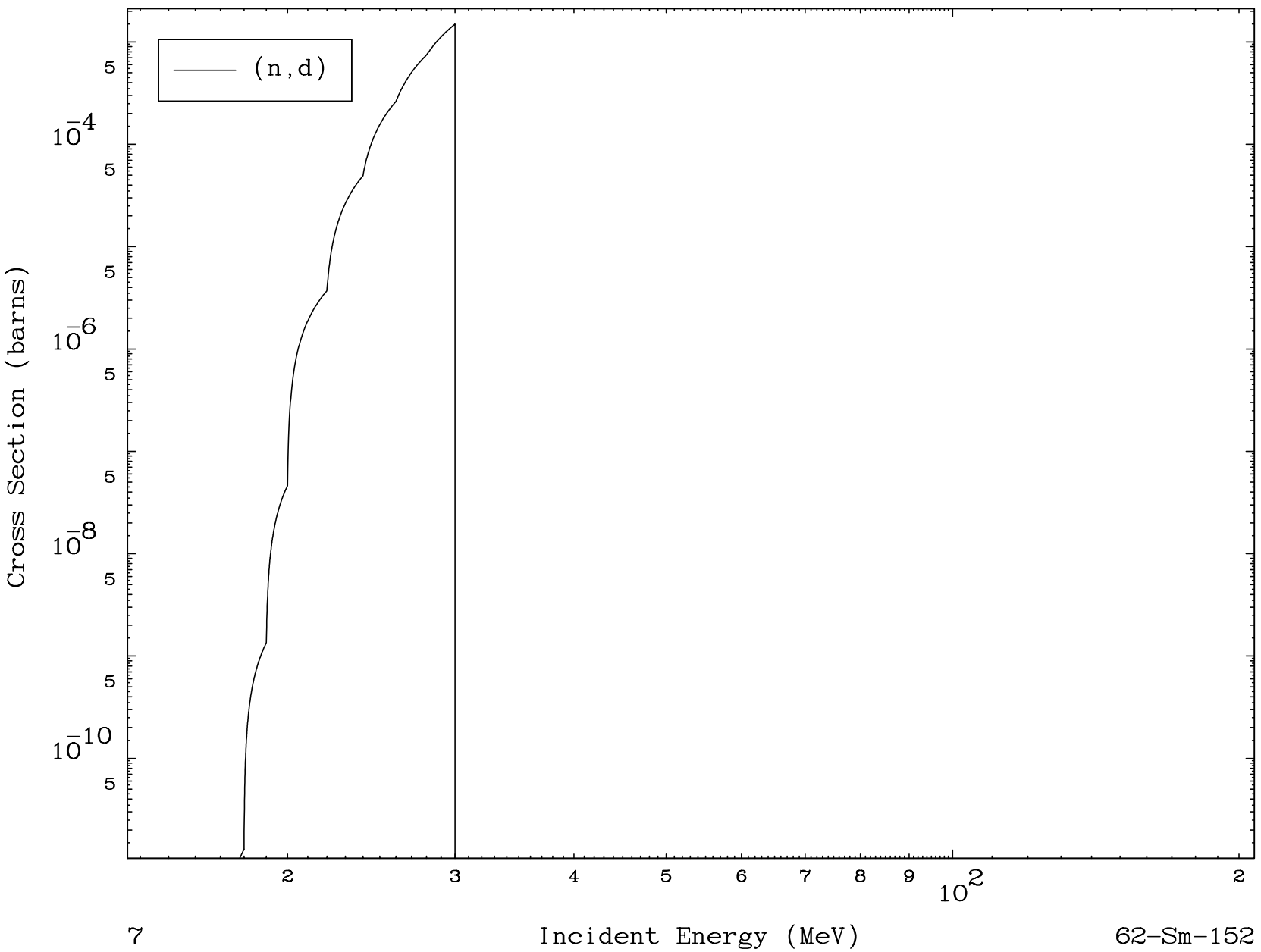

MAT 6249
α Neutron Absorption
0 Kelvin Cross Sections
62-Sm-152
Cross Section (barns)
Incident Energy (MeV)
62-Sm-152
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p

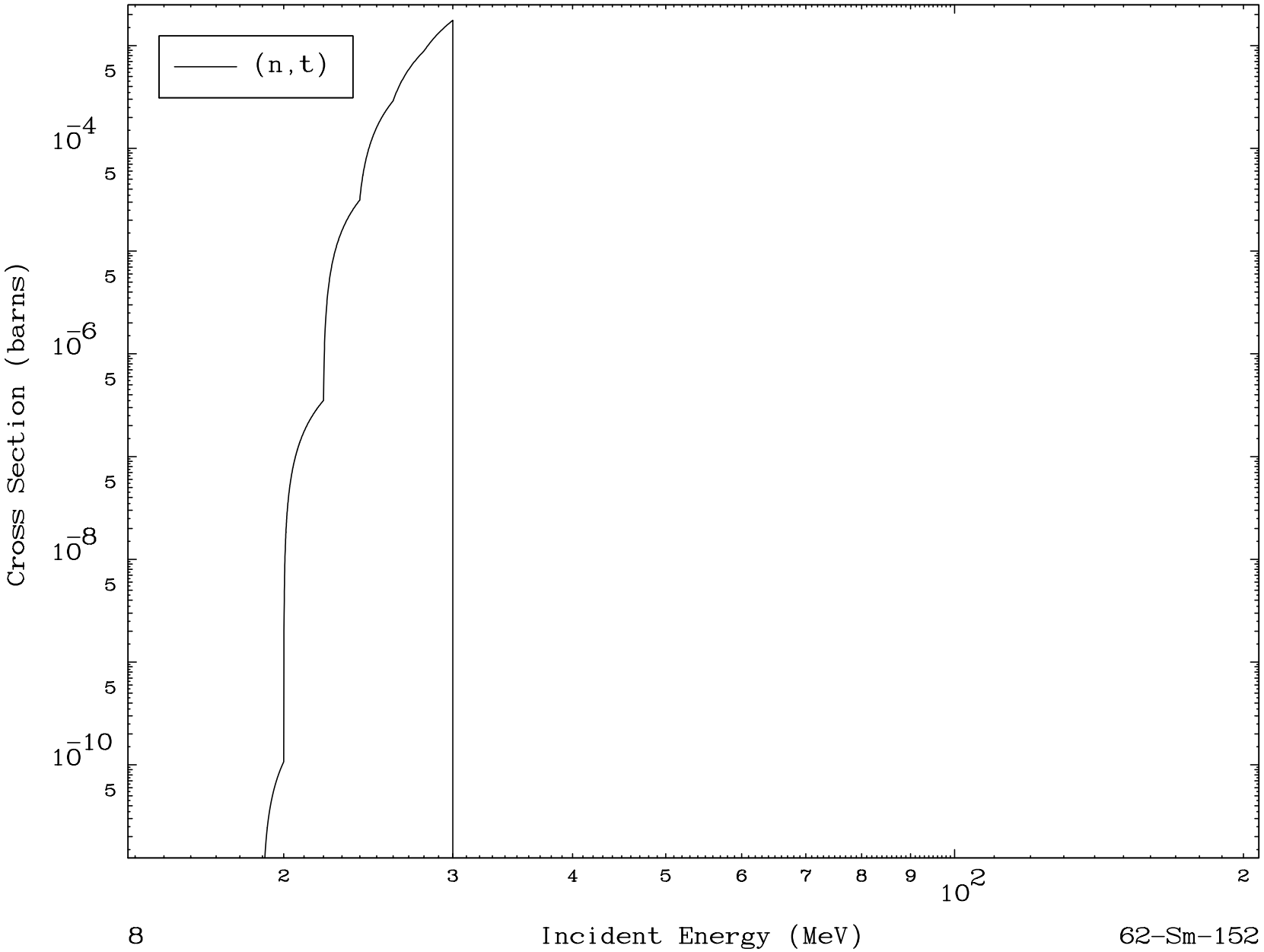

MAT 6249
α Neutron Absorption
0 Kelvin Cross Sections
62-Sm-152
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
3
62-Sm-152

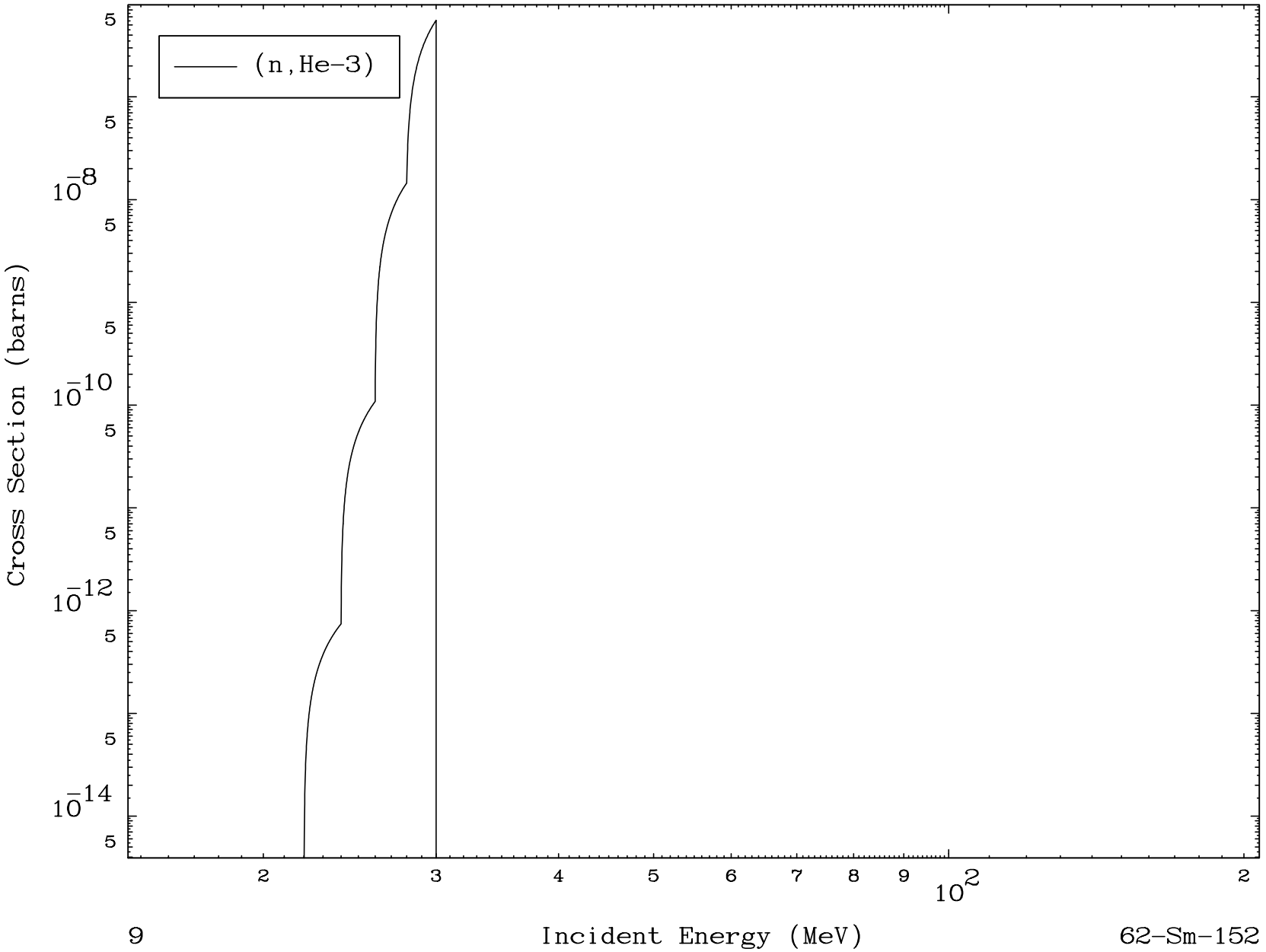

MAT 6249
α Charged Particle
0 Kelvin Cross Sections
62-Sm-152
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-152

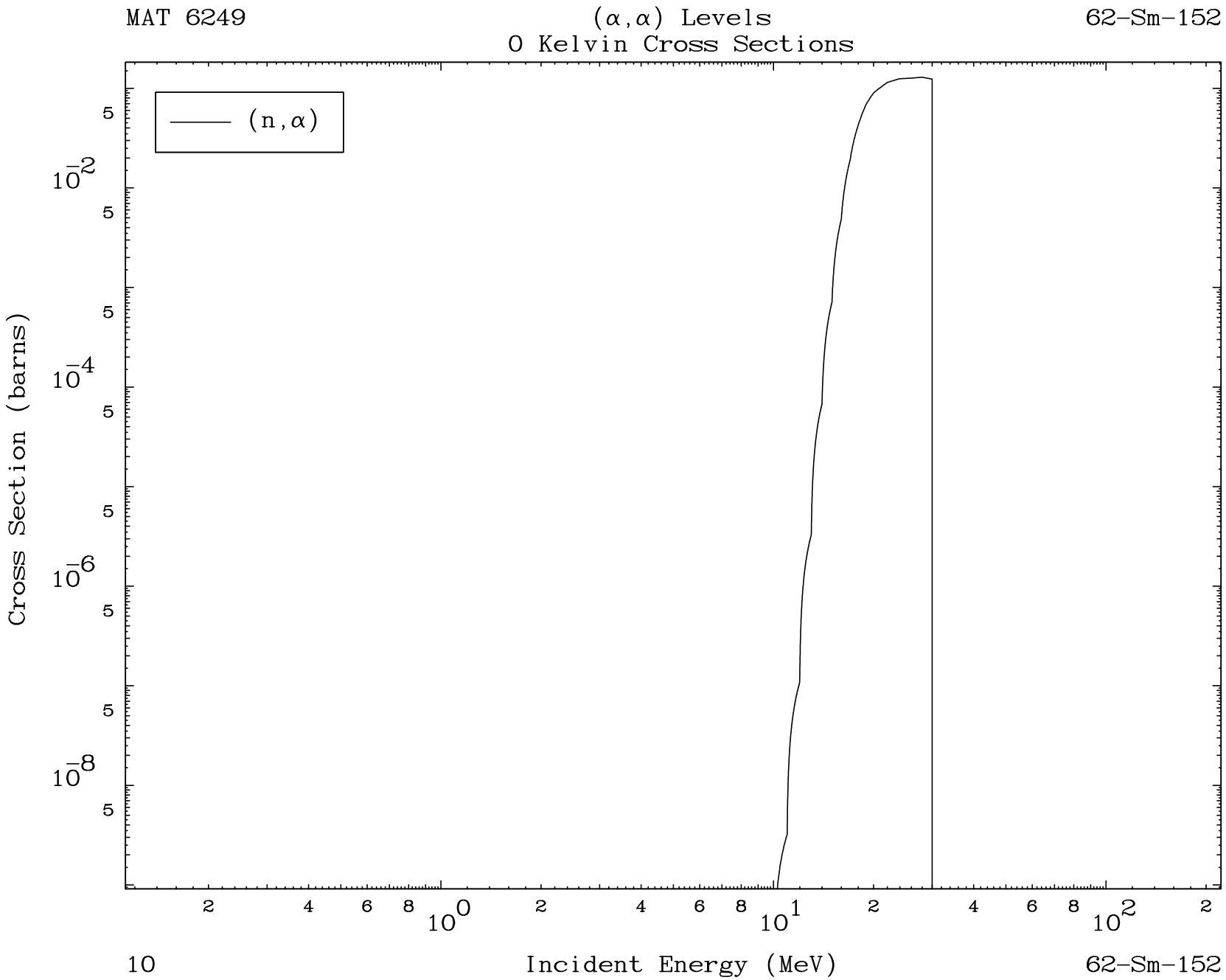

MAT 6249
α Charged Particle
0 Kelvin Cross Sections
62-Sm-152
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
5
62-Sm-152

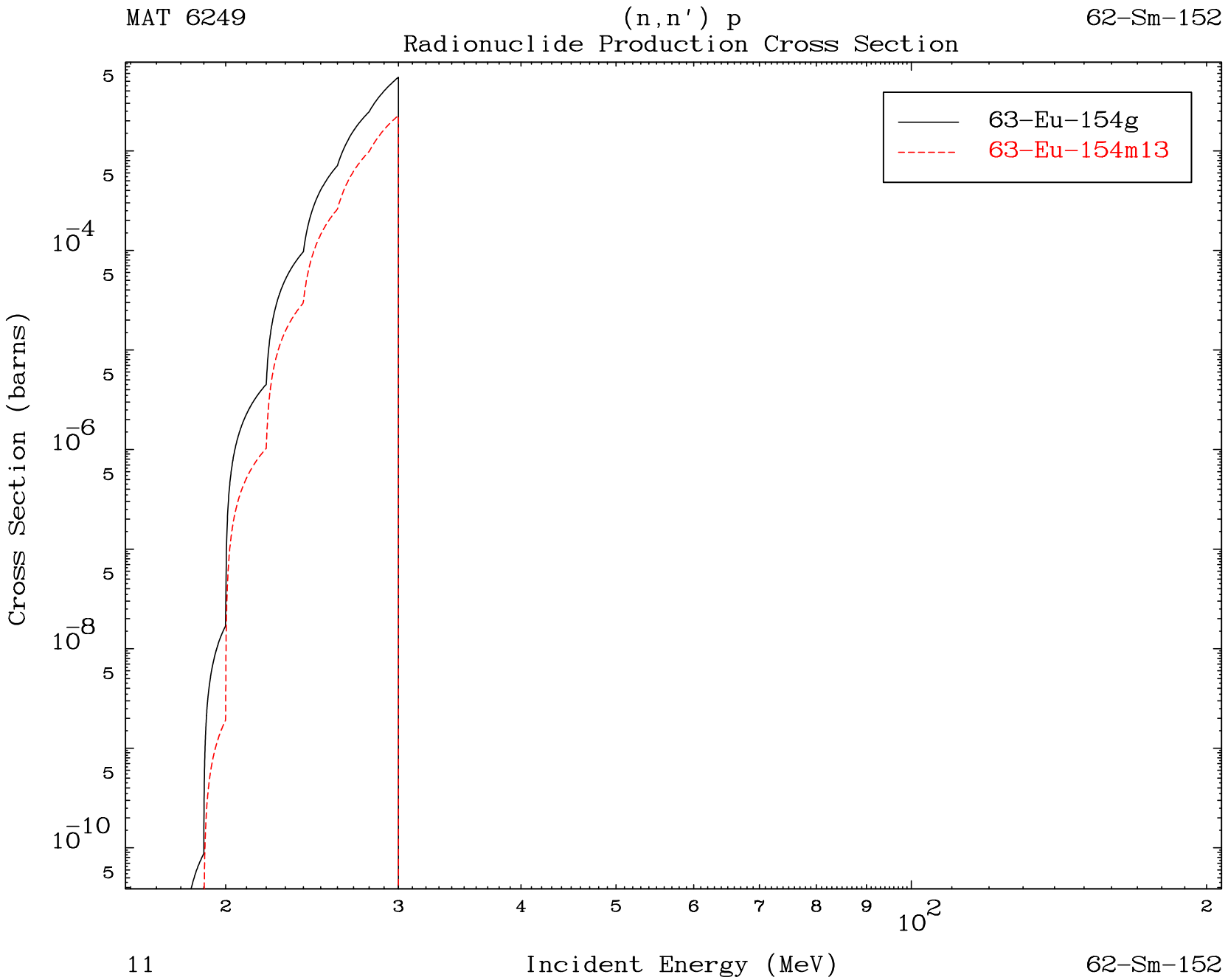

MAT 6249
(α,p) Levels
62-Sm-152
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
62-Sm-152

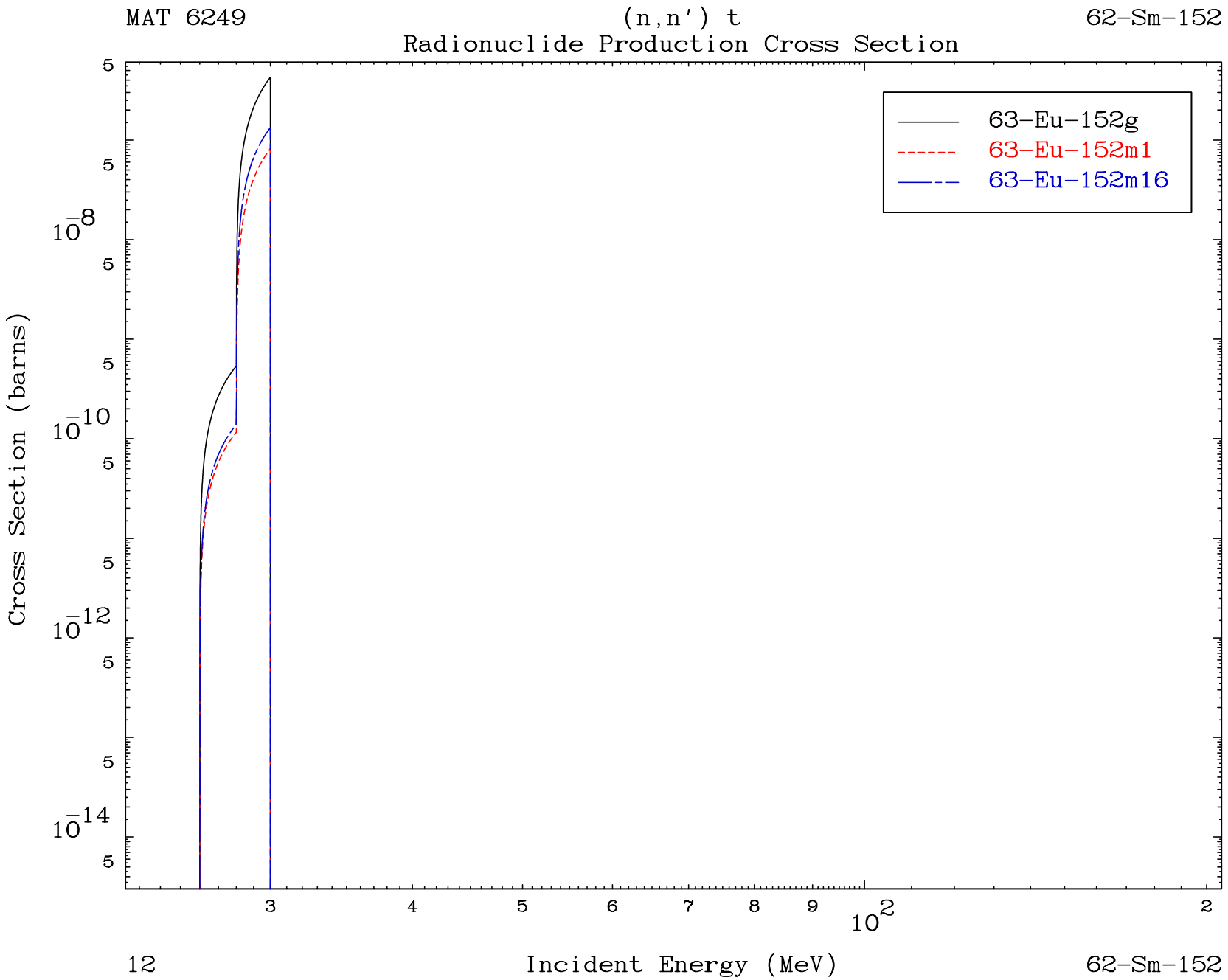

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

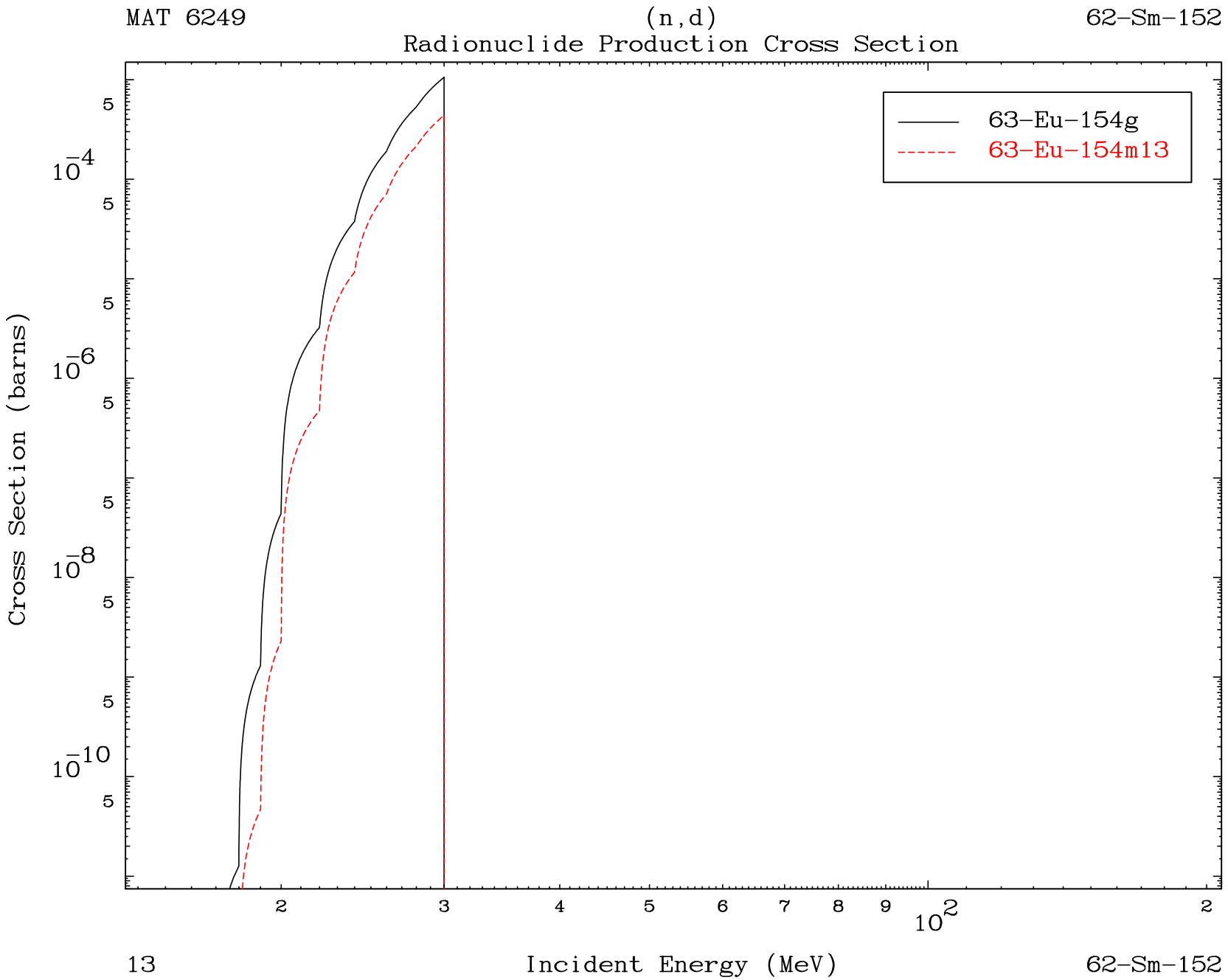

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)


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


MAT 6249
(α,α) Levels
62-Sm-152
0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
62-Sm-152


MAT 6249
(n,n') p
62-Sm-152
Radionuclide Production Cross Section
63-Eu-154g
63-Eu-154m13
Cross Section (barns)
Incident Energy (MeV)
11
62-Sm-152


MAT 6249
(n,n') t
62-Sm-152
Radionuclide Production Cross Section
63-Eu-152g
63-Eu-152m1
63-Eu-152m16
Cross Section (barns)
Incident Energy (MeV)
12
62-Sm-152


MAT 6249
(n,d)
62-Sm-152
Radionuclide Production Cross Section
63-Eu-154g
63-Eu-154m13
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
62-Sm-152