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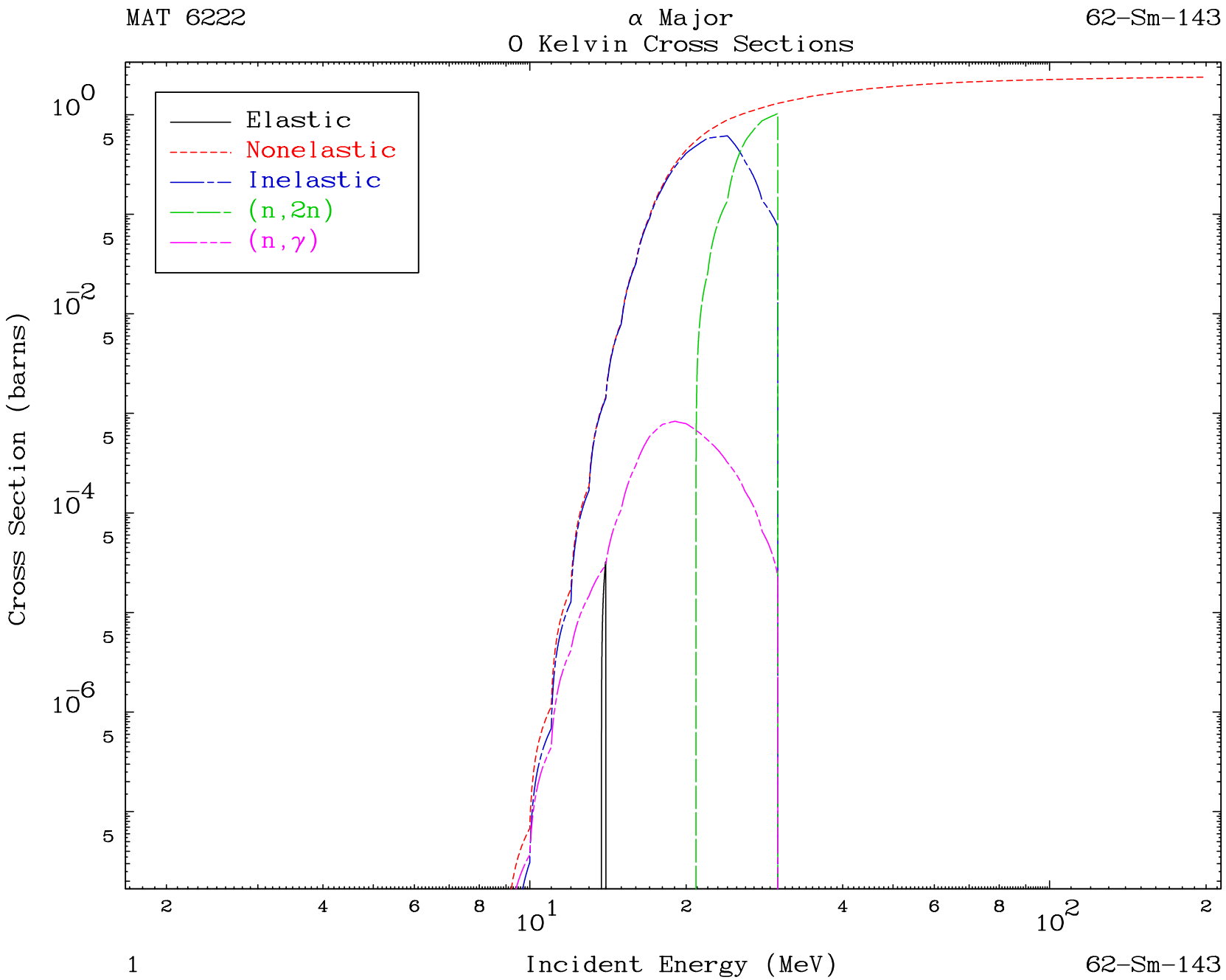
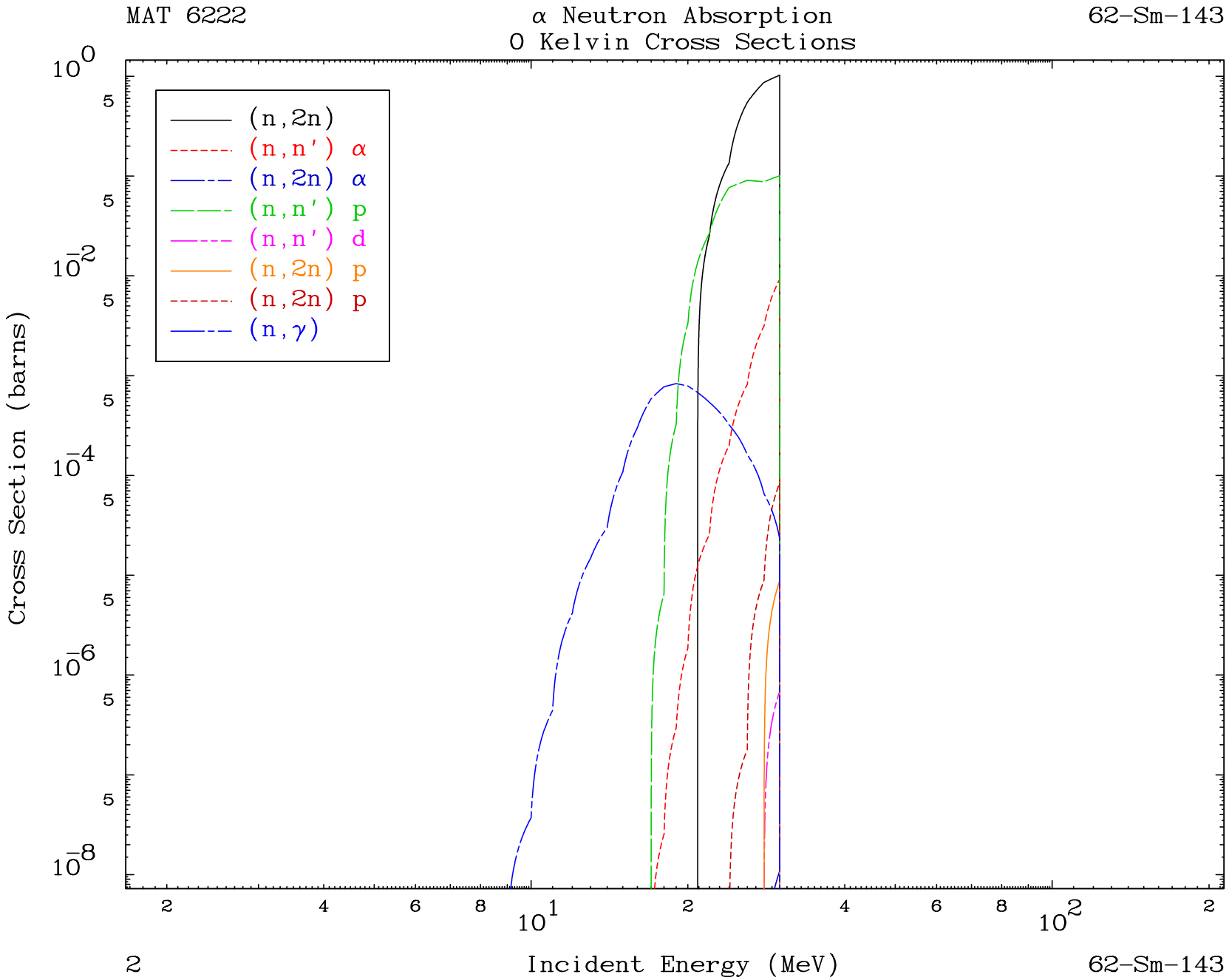
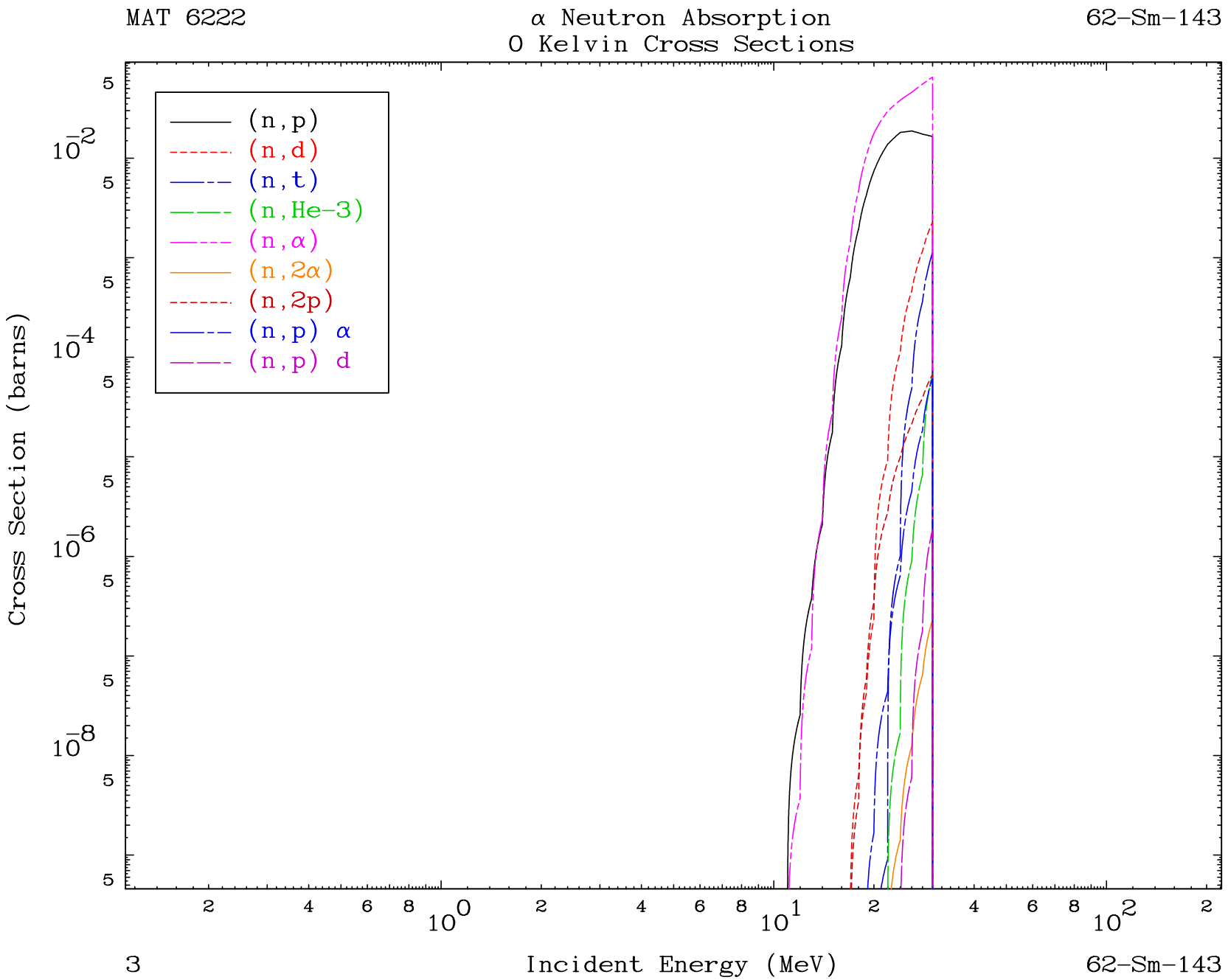
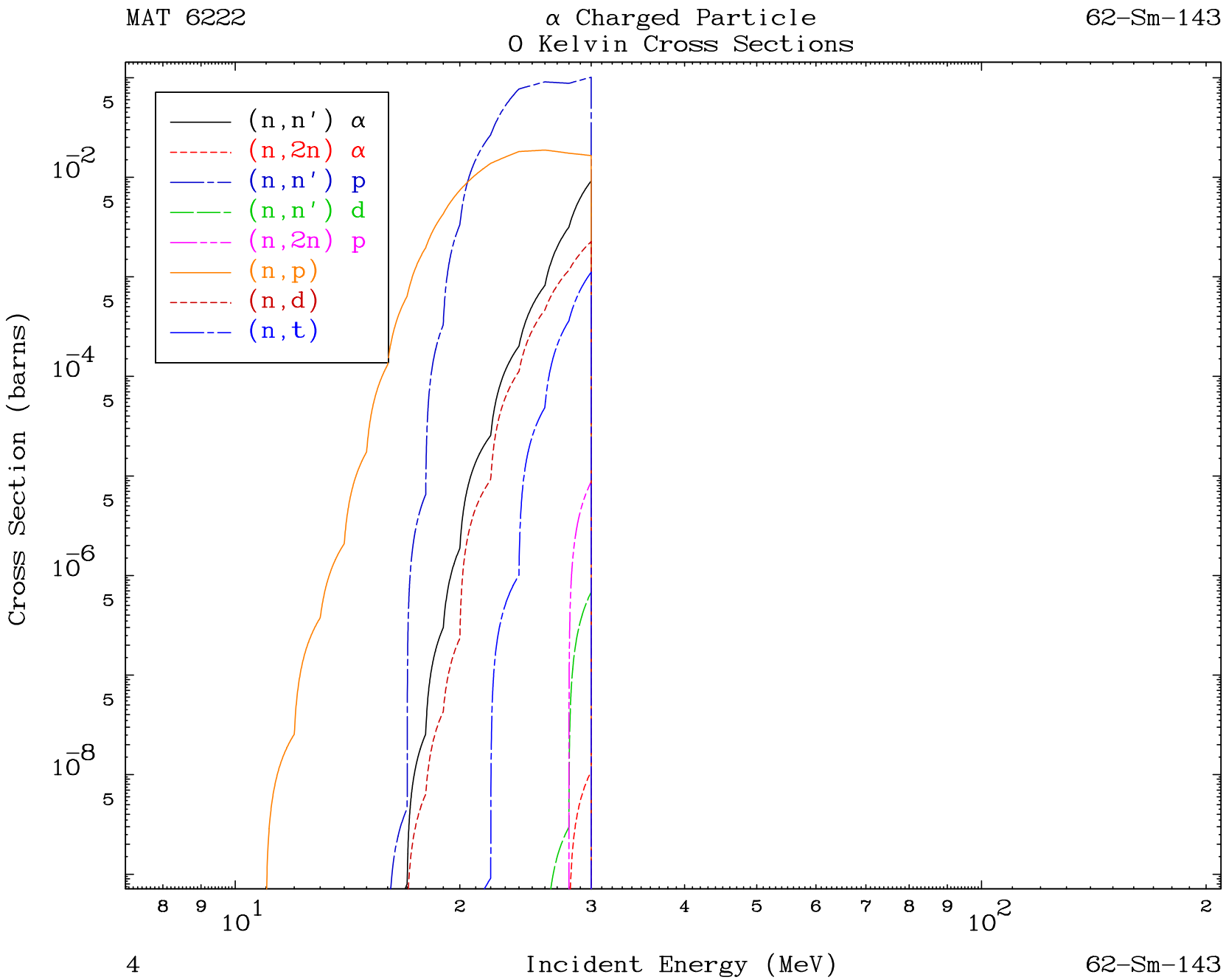
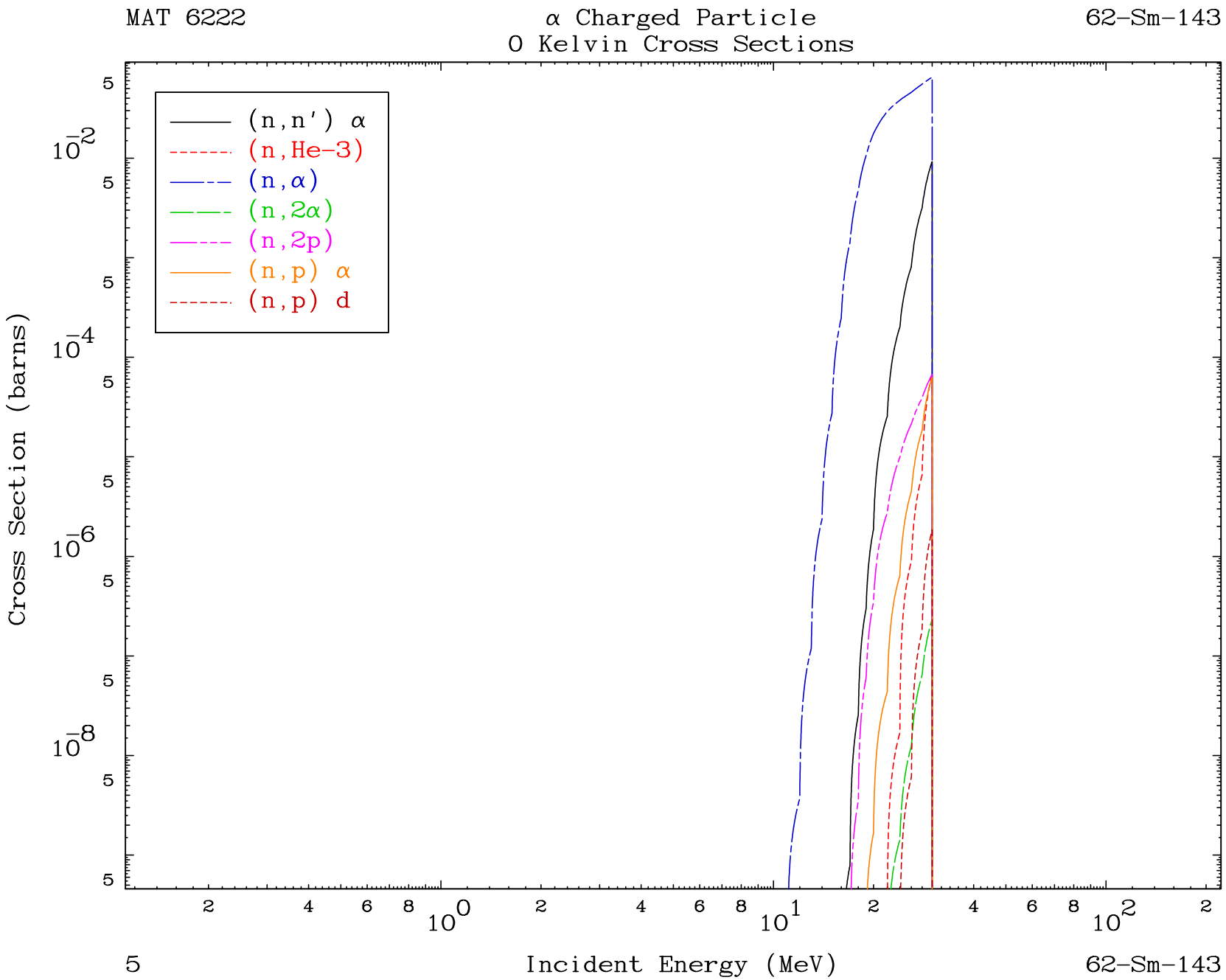
Press Mouse Button to Start

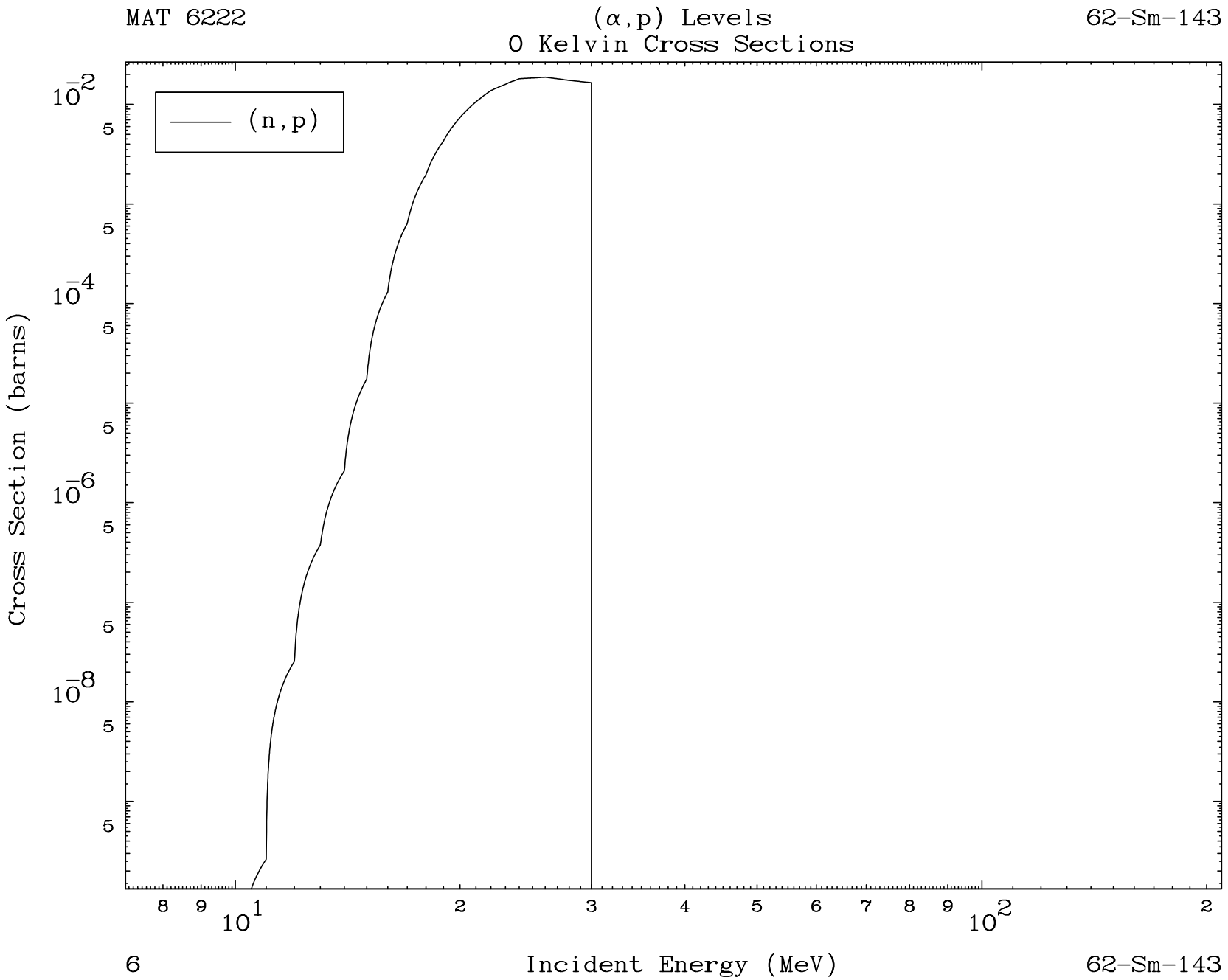

MAT 6222
α Major
62-Sm-143
0 Kelvin Cross Sections
Elastic
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-143


MAT 6222
α Neutron Absorption
0 Kelvin Cross Sections
62-Sm-143
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,2n) p
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-143

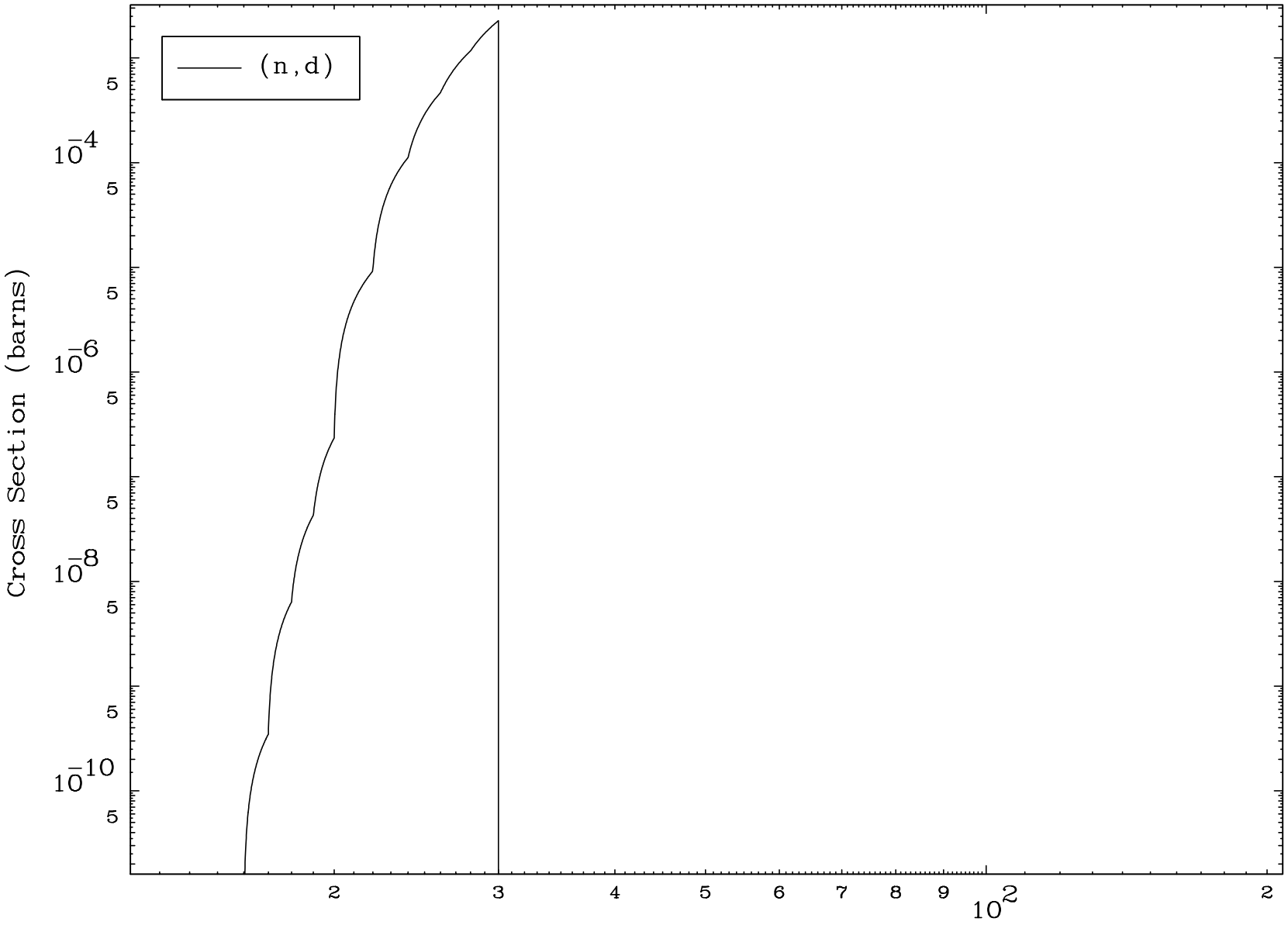

MAT 6222
α Neutron Absorption
0 Kelvin Cross Sections
62-Sm-143
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
3
62-Sm-143

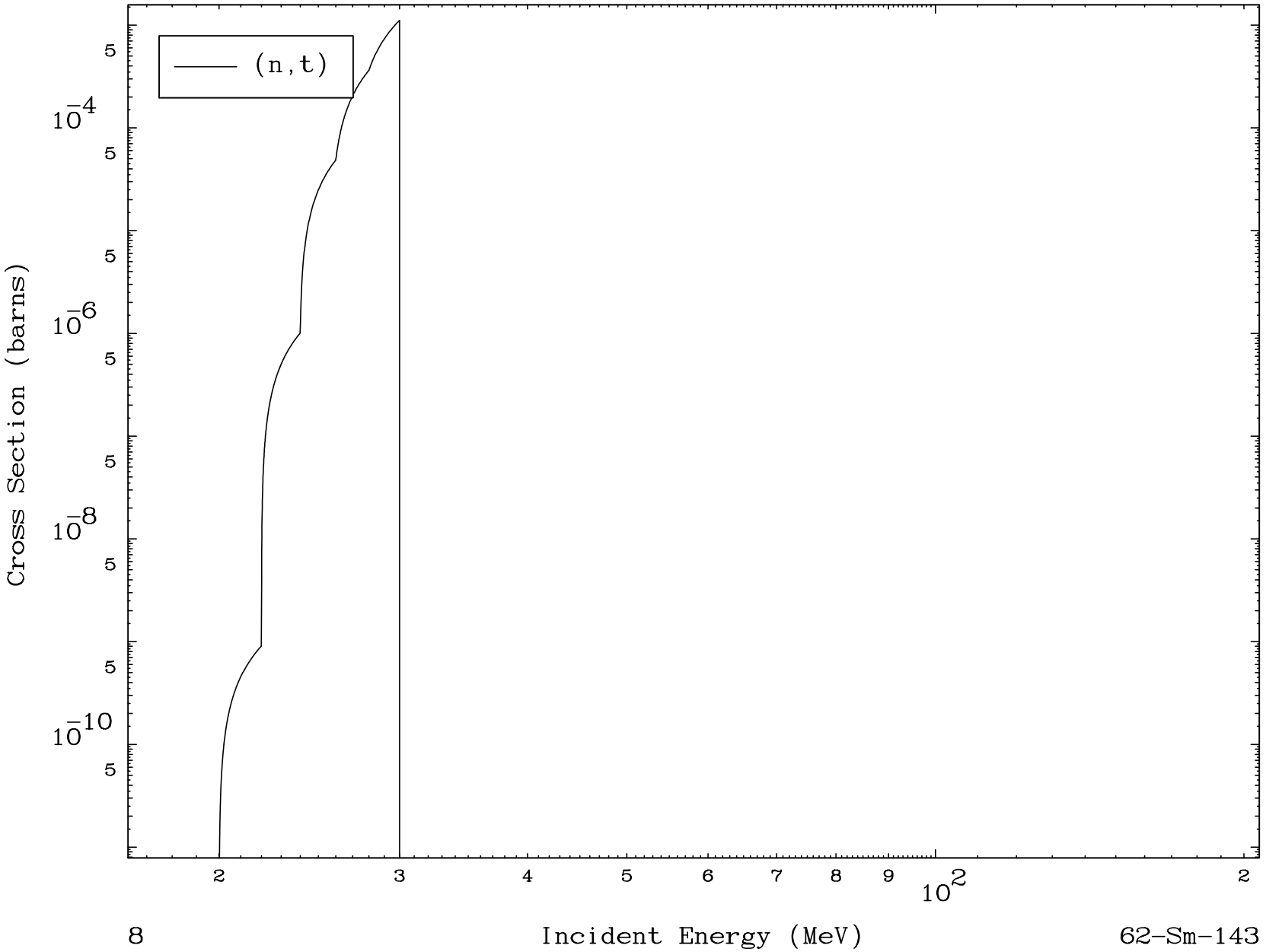

MAT 6222
α Charged Particle
0 Kelvin Cross Sections
62-Sm-143
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-143

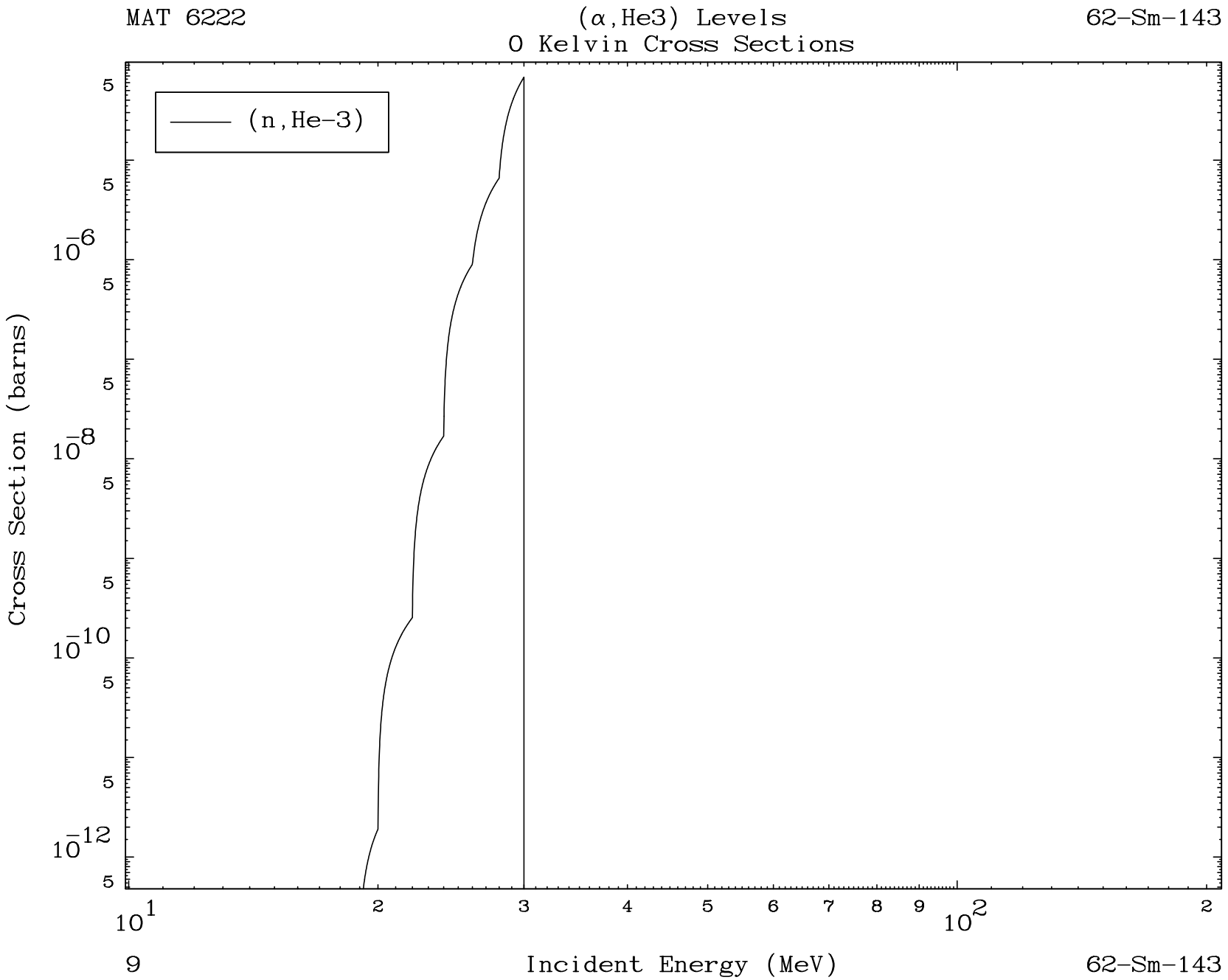

MAT 6222
α Charged Particle
0 Kelvin Cross Sections
62-Sm-143
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
62-Sm-143

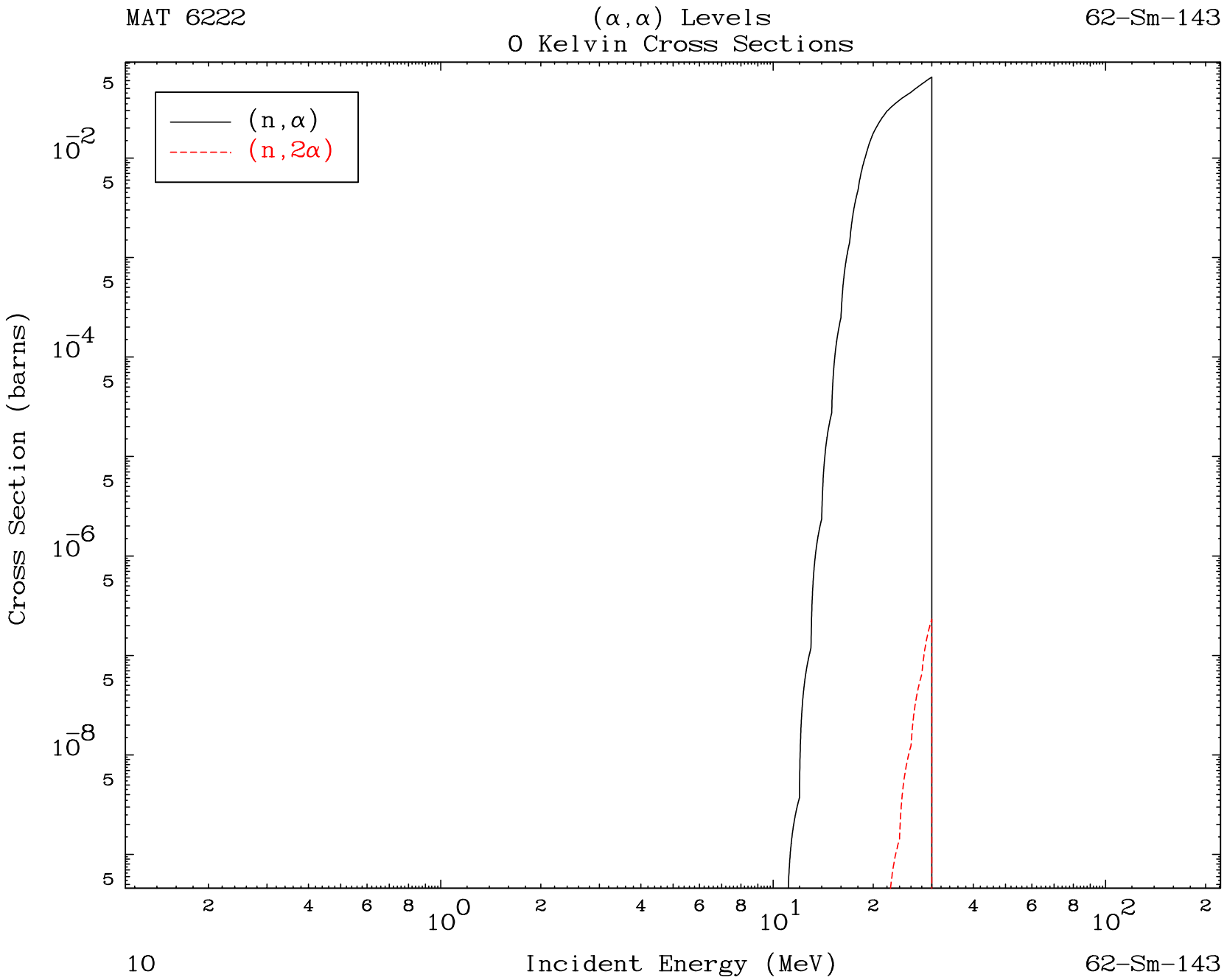

MAT 6222
(α,p) Levels
0 Kelvin Cross Sections
62-Sm-143
(n,p)
Cross Section (barns)
Incident Energy (MeV)
6
62-Sm-143

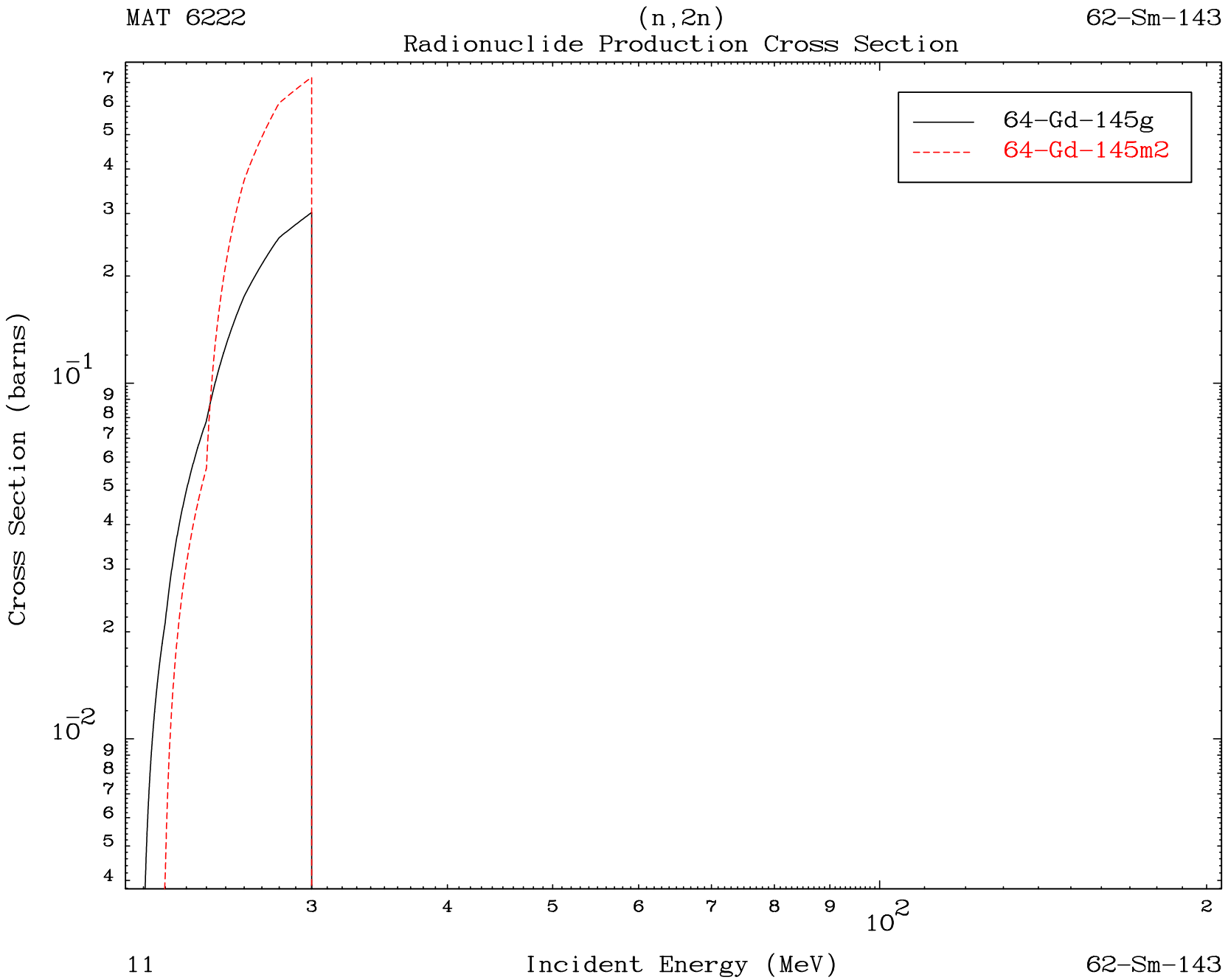
0 Kelvin Cross Sections

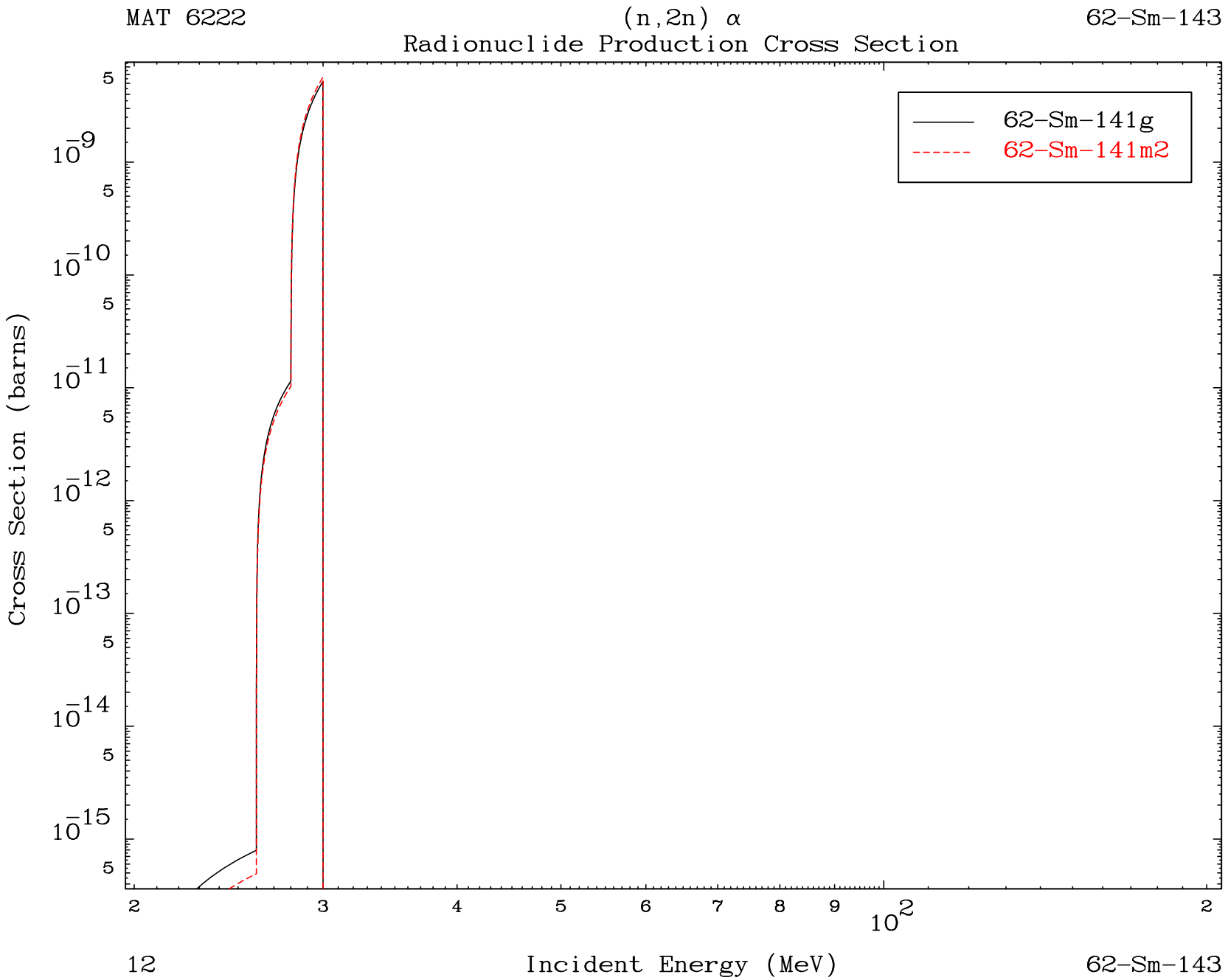


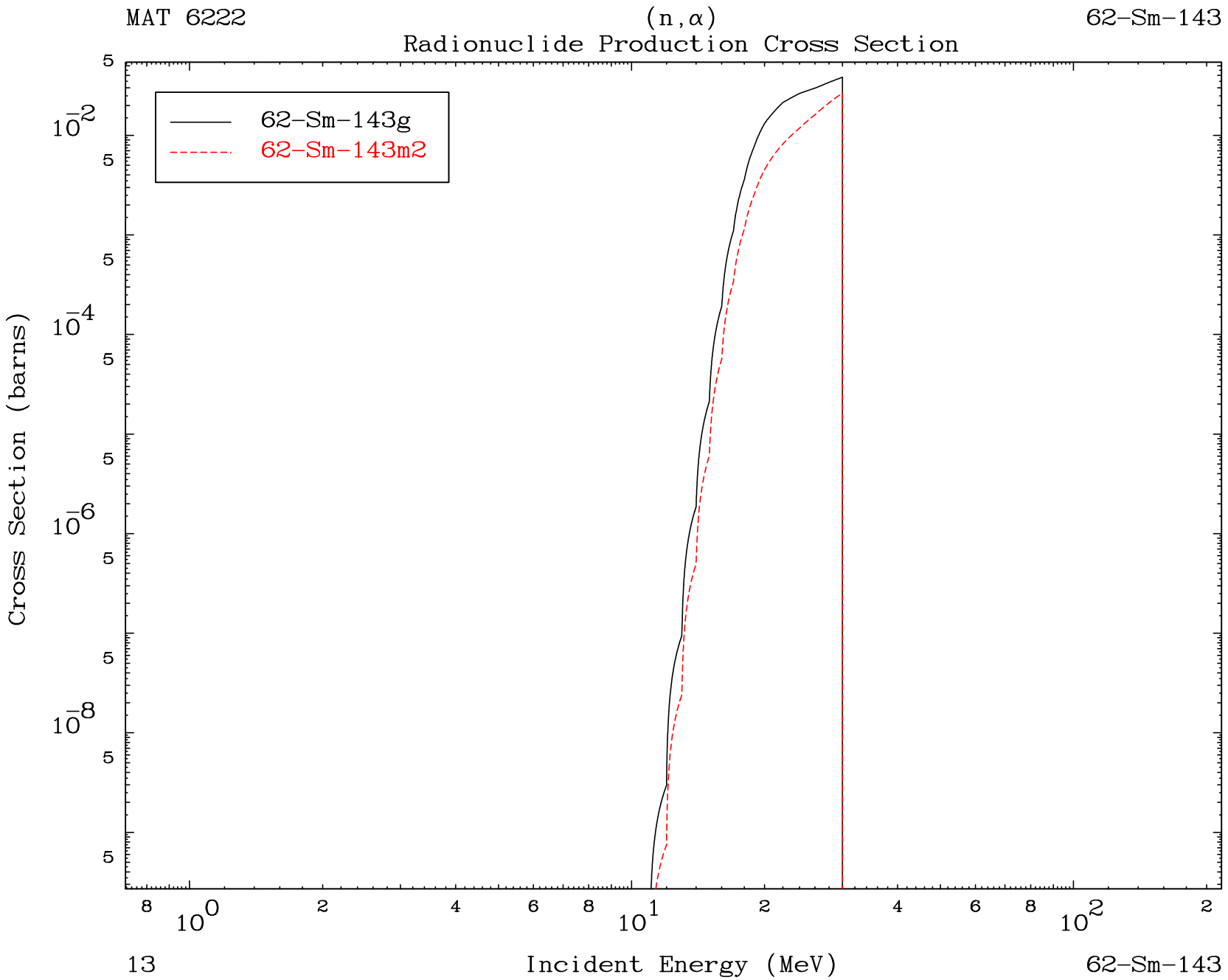

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

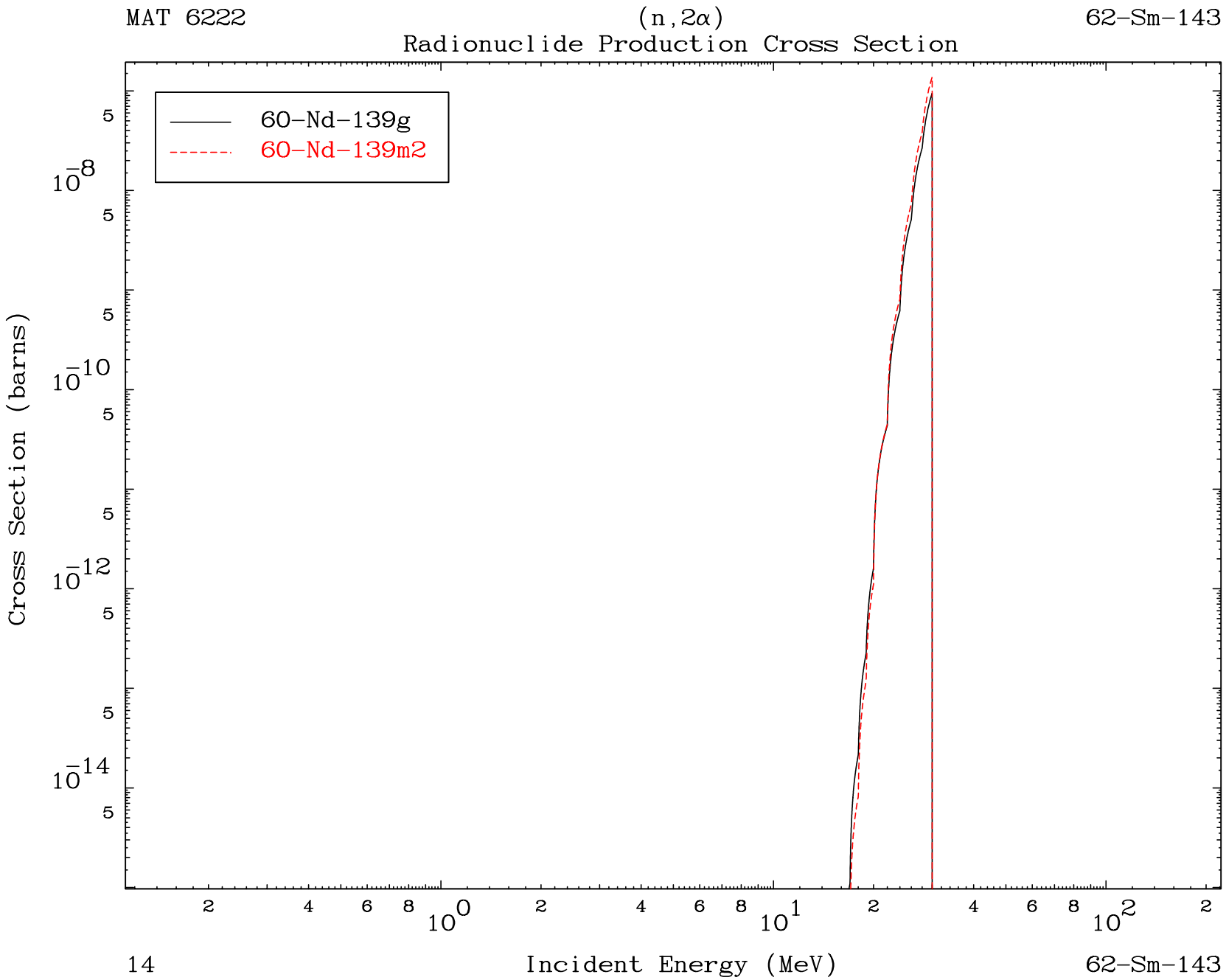

MAT 6222
(α,He3) Levels
62-Sm-143
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^1
10^2
Incident Energy (MeV)
62-Sm-143


MAT 6222
(α,α) Levels
62-Sm-143
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-143


MAT 6222
(n,2n)
62-Sm-143
Radionuclide Production Cross Section
64-Gd-145g
64-Gd-145m2
Cross Section (barns)
Incident Energy (MeV)
11
62-Sm-143


MAT 6222
(n,2n) α
62-Sm-143
Radionuclide Production Cross Section
62-Sm-141g
62-Sm-141m2
Cross Section (barns)
10-9
10-10
10-11
10-12
10-13
10-14
10-15
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
62-Sm-143


MAT 6222
(n,α)
62-Sm-143
Radionuclide Production Cross Section
62-Sm-143g
62-Sm-143m2
Cross Section (barns)
Incident Energy (MeV)
13
62-Sm-143


MAT 6222
(n,2α)
62-Sm-143
Radionuclide Production Cross Section
60-Nd-139g
60-Nd-139m2
Cross Section (barns)
Incident Energy (MeV)
14
62-Sm-143