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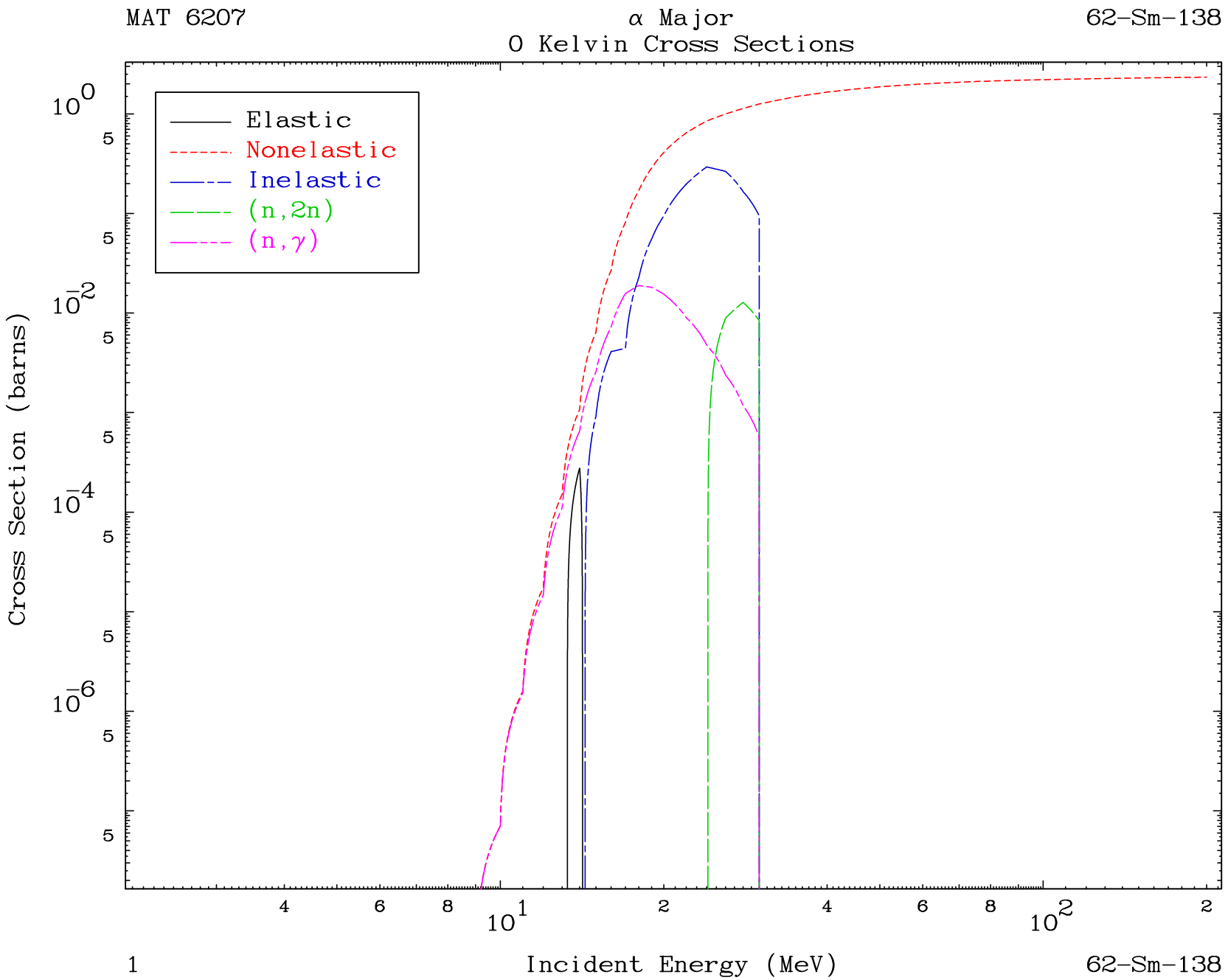
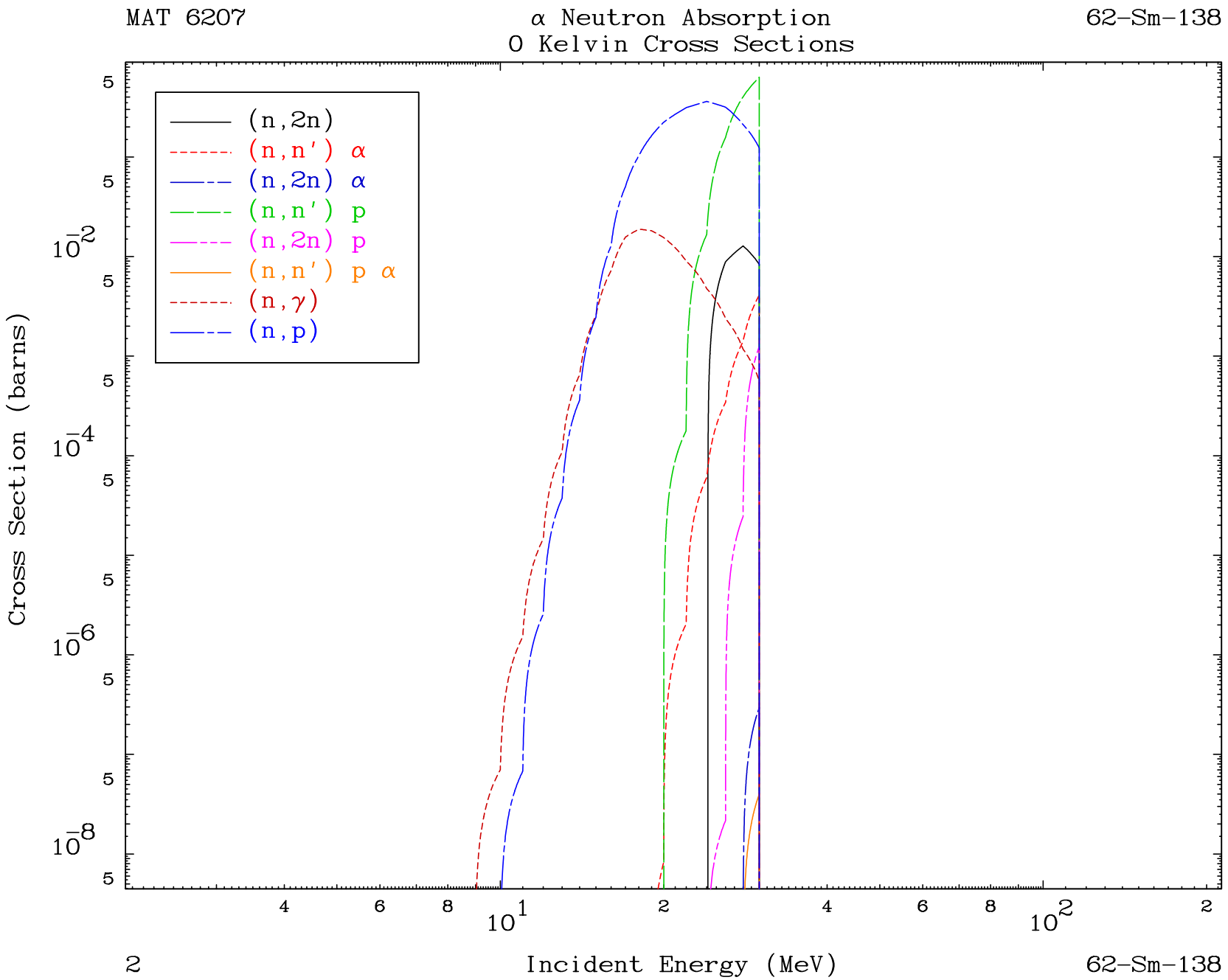
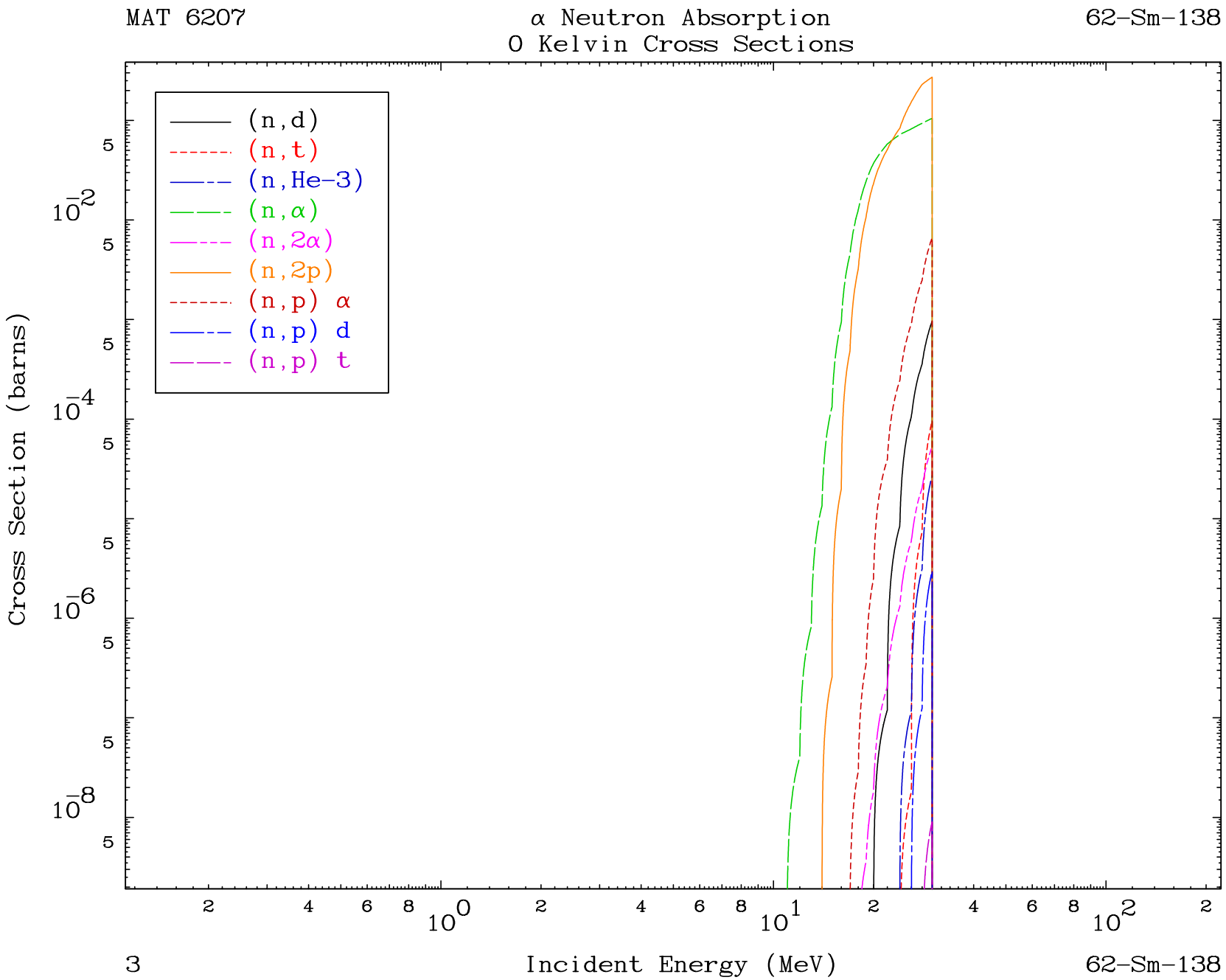
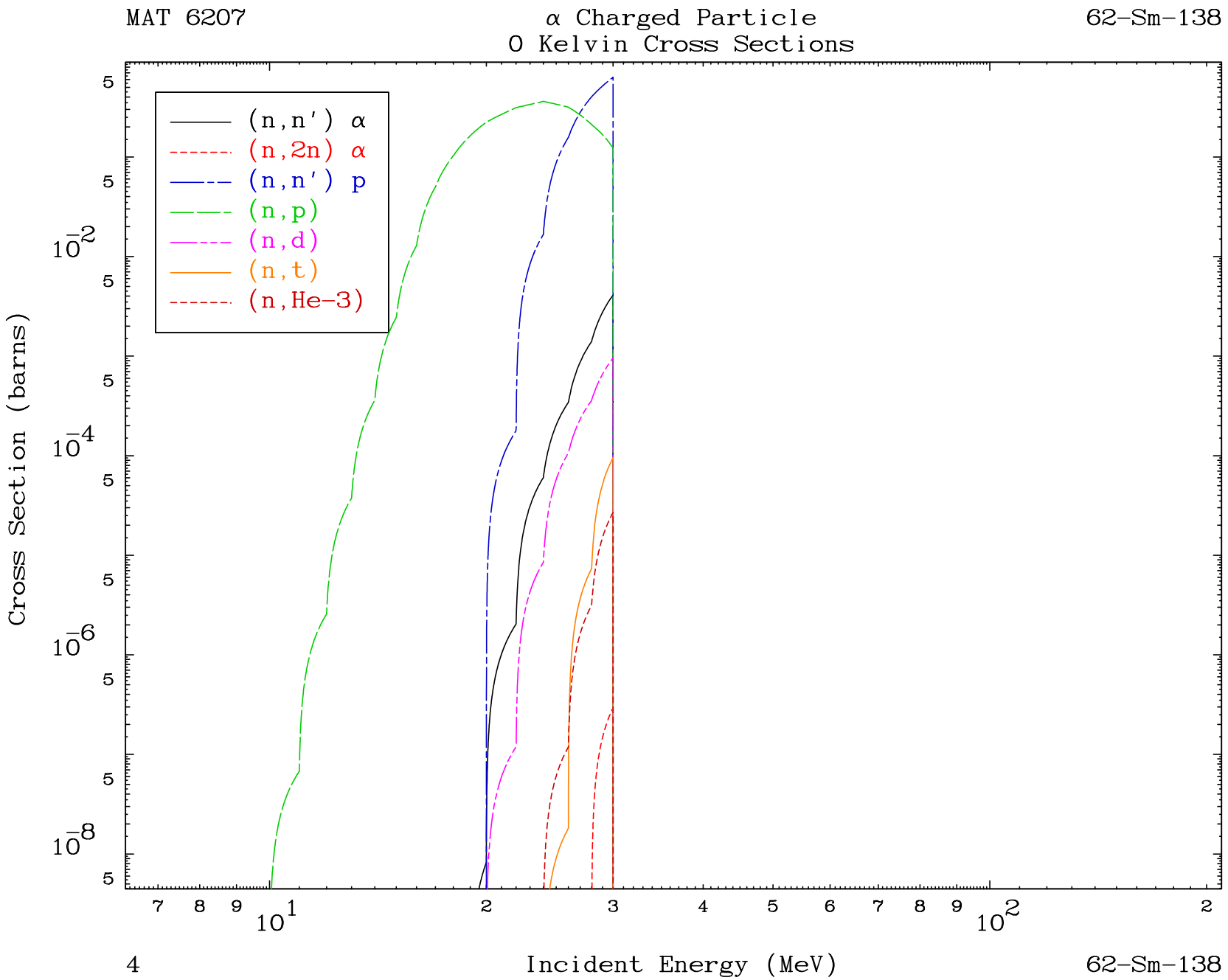
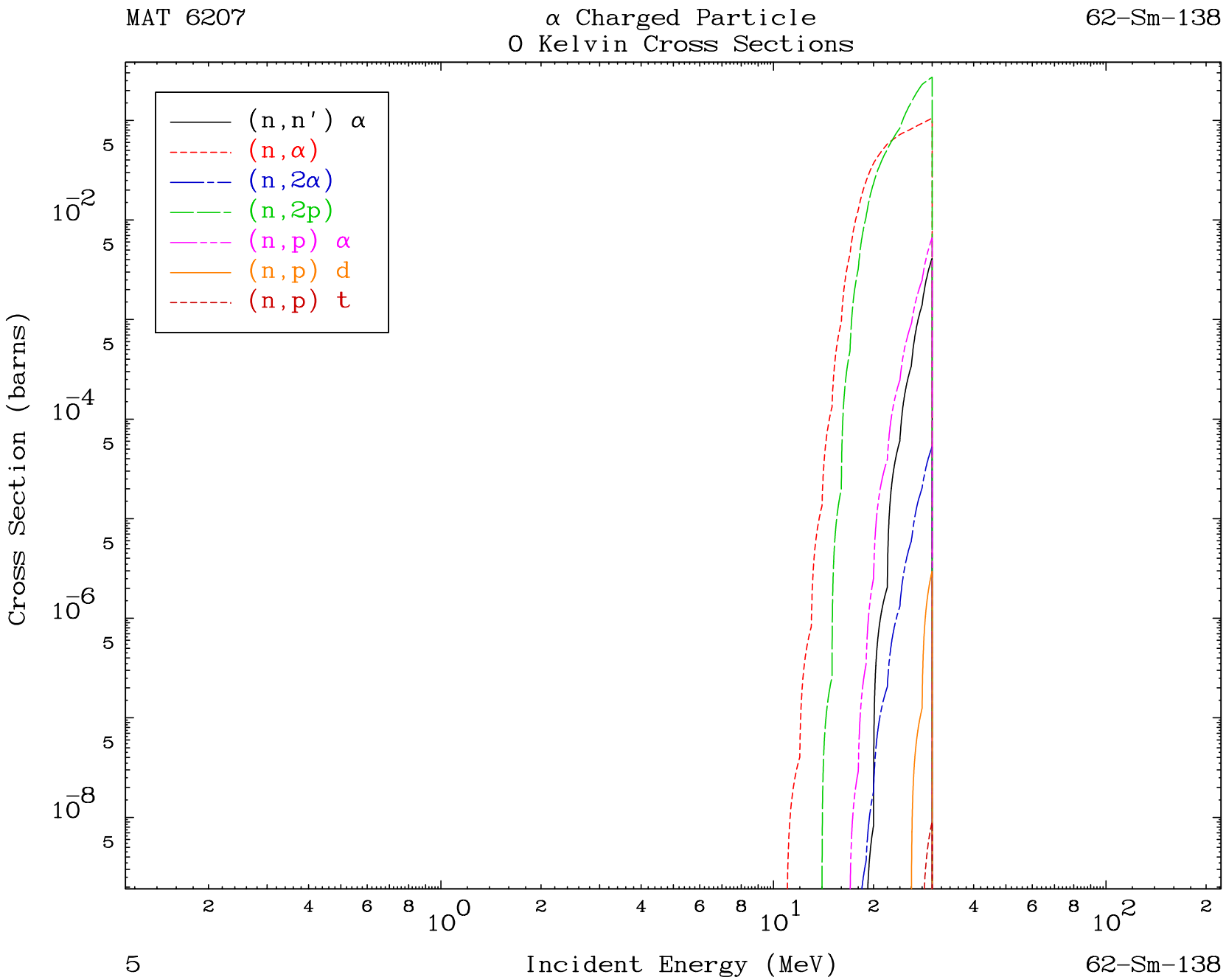
Press Mouse Button to Start

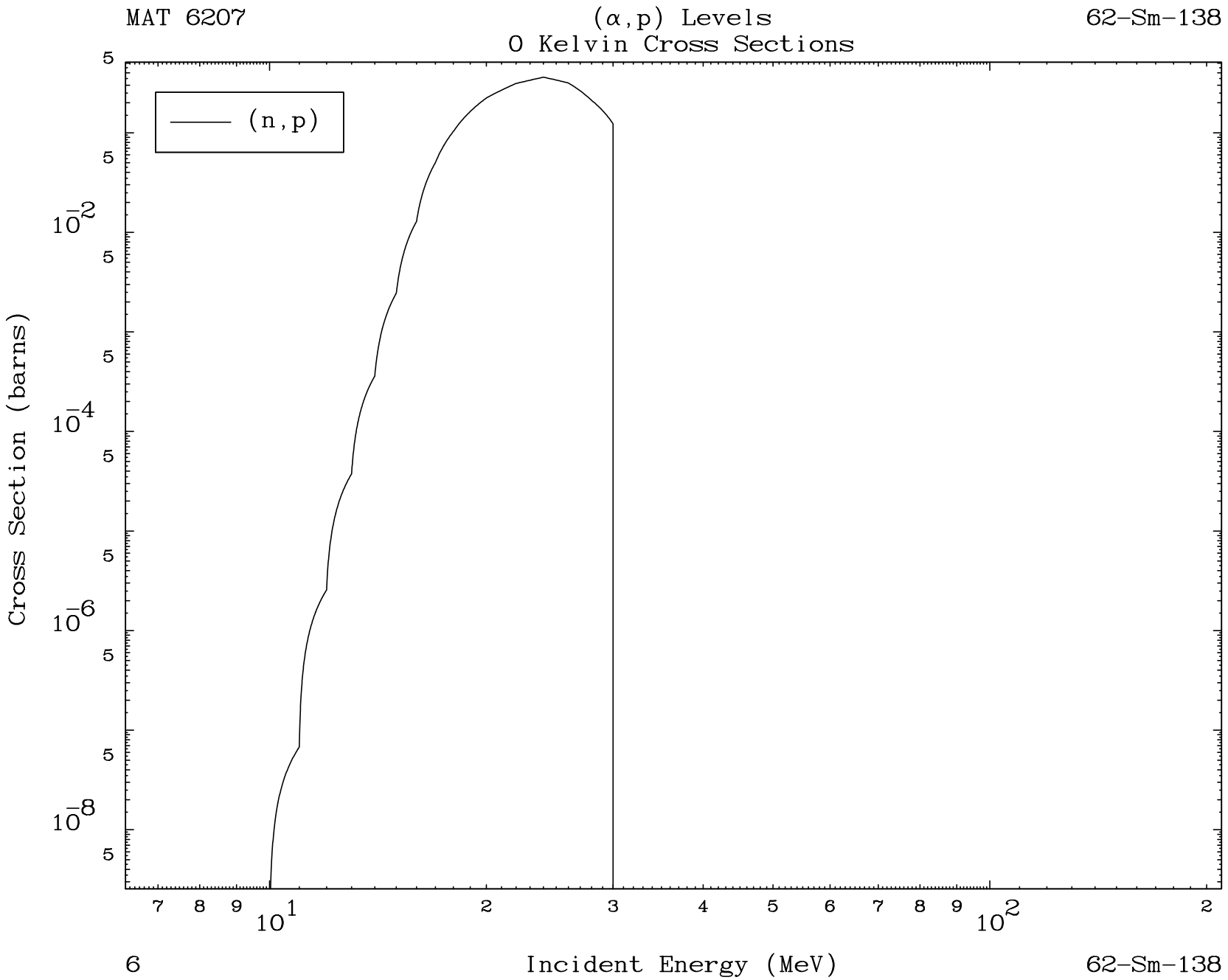

MAT 6207
α Major
62-Sm-138
0 Kelvin Cross Sections
Elastic
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-138


MAT 6207
α Neutron Absorption
0 Kelvin Cross Sections
62-Sm-138
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-138
2

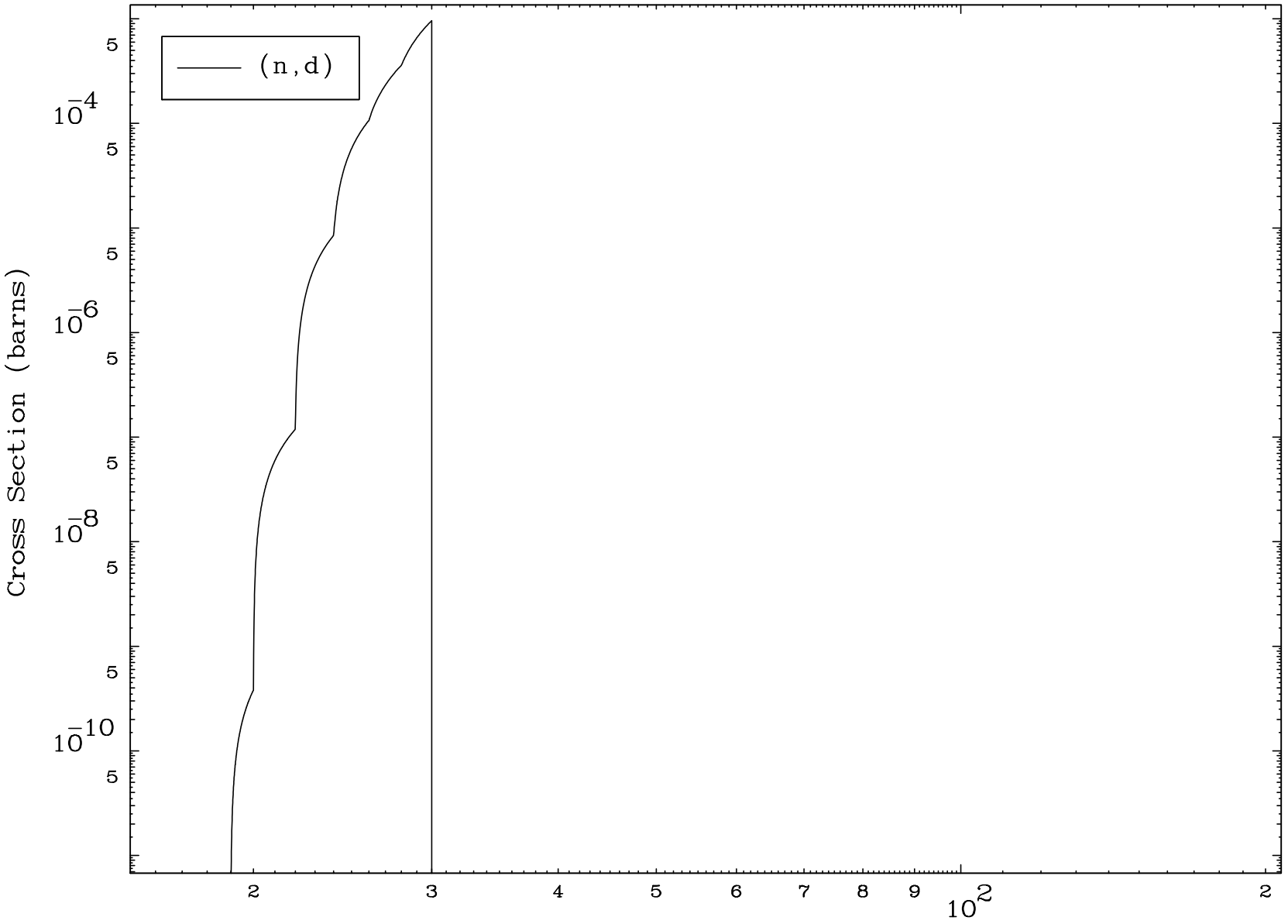

MAT 6207
α Neutron Absorption
0 Kelvin Cross Sections
62-Sm-138
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
Cross Section (barns)
Incident Energy (MeV)
3
62-Sm-138

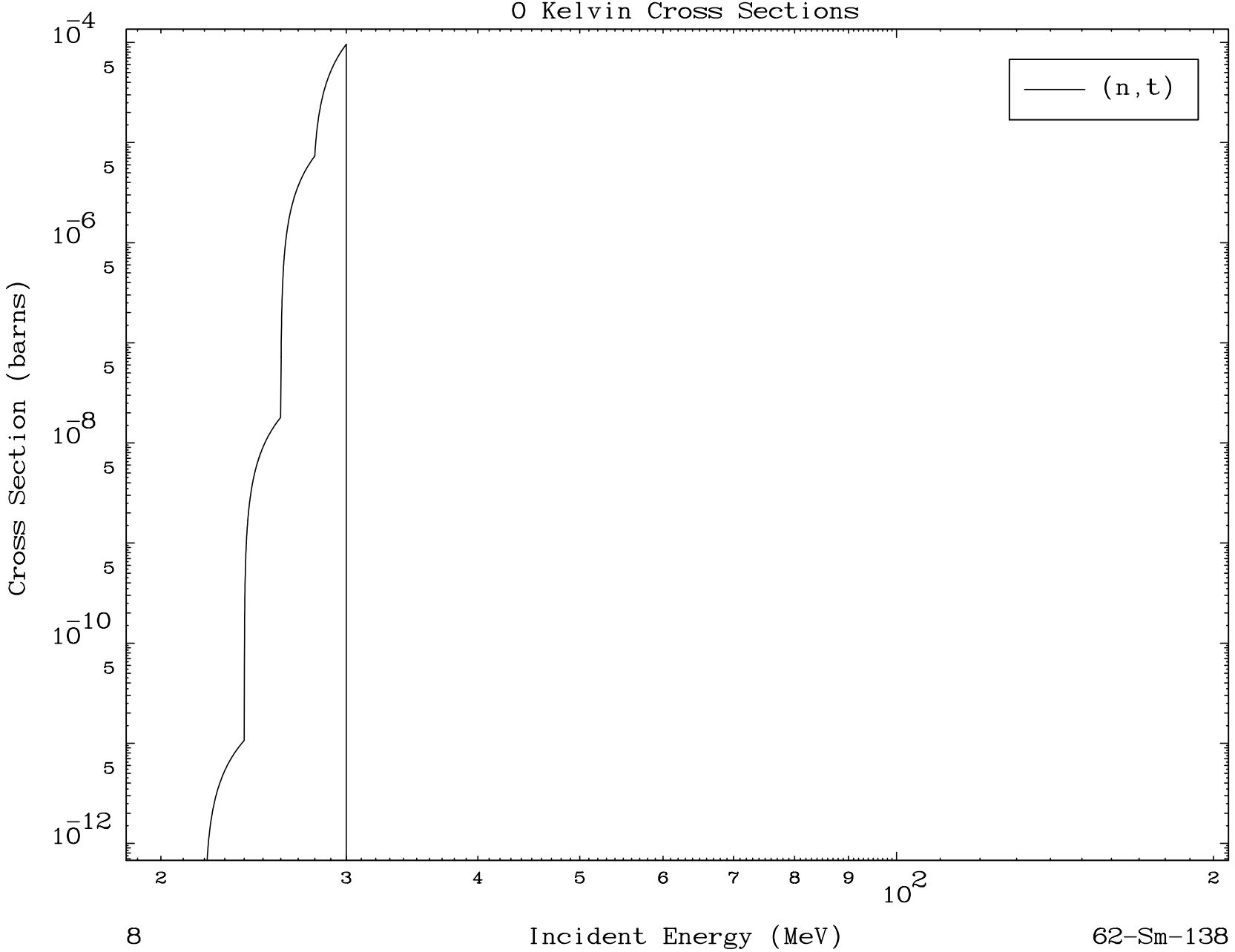

MAT 6207
α Charged Particle
0 Kelvin Cross Sections
62-Sm-138
(n,n') α
(n,2n) α
(n,n') p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-138


MAT 6207
α Charged Particle
0 Kelvin Cross Sections
62-Sm-138
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
Cross Section (barns)
Incident Energy (MeV)
5
62-Sm-138

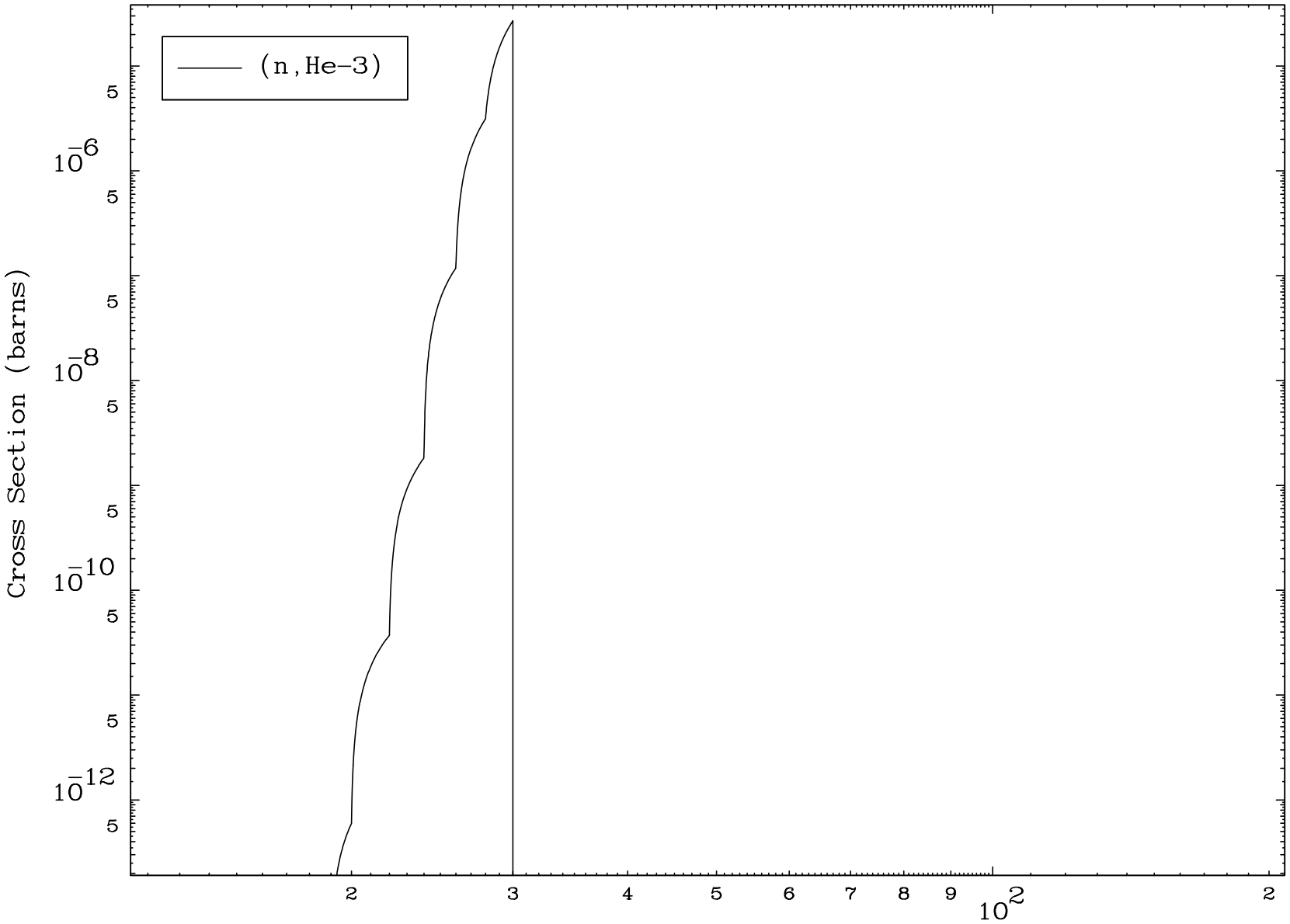

MAT 6207
(α,p) Levels
62-Sm-138
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
6
62-Sm-138

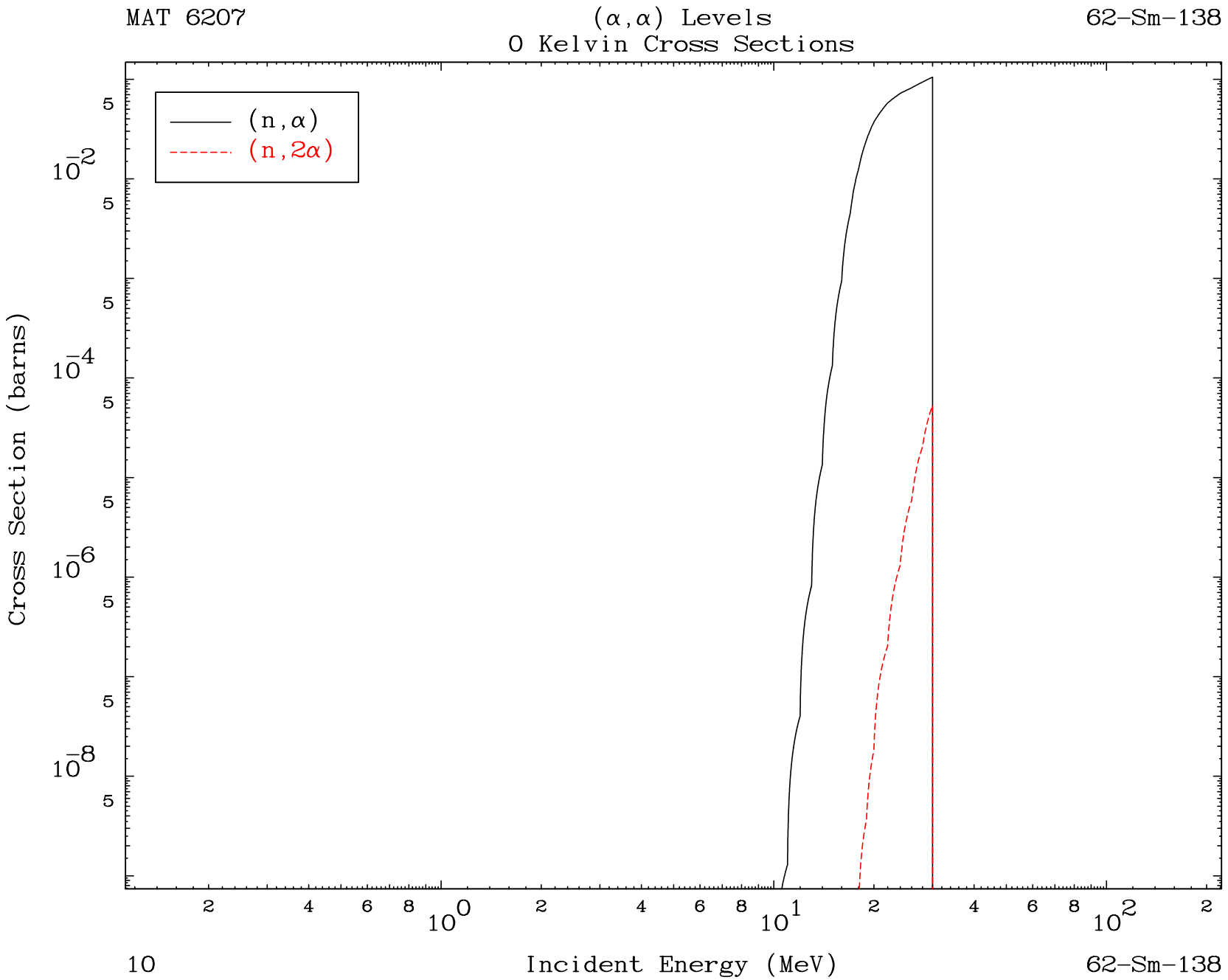
0 Kelvin Cross Sections

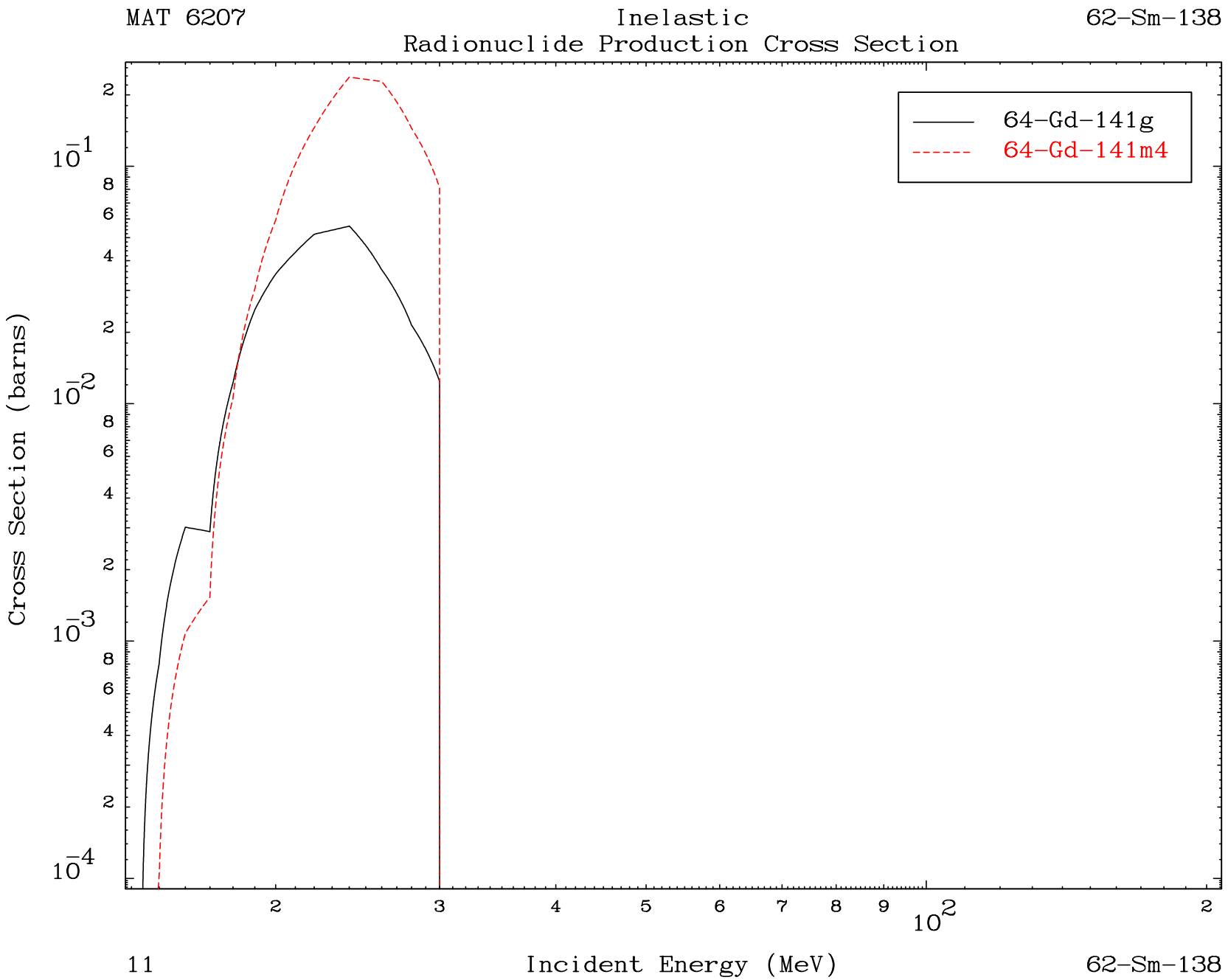


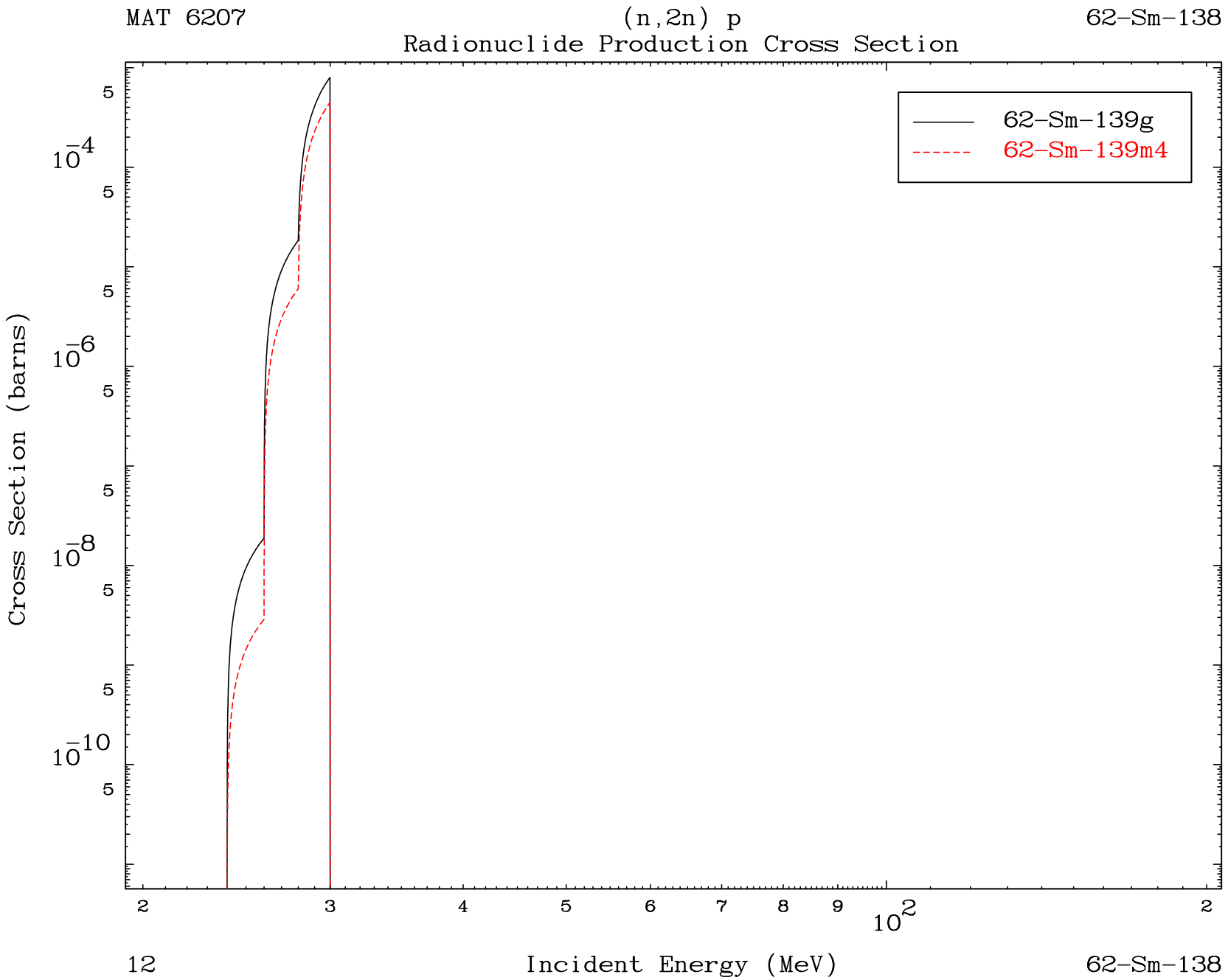

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
10-12
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)

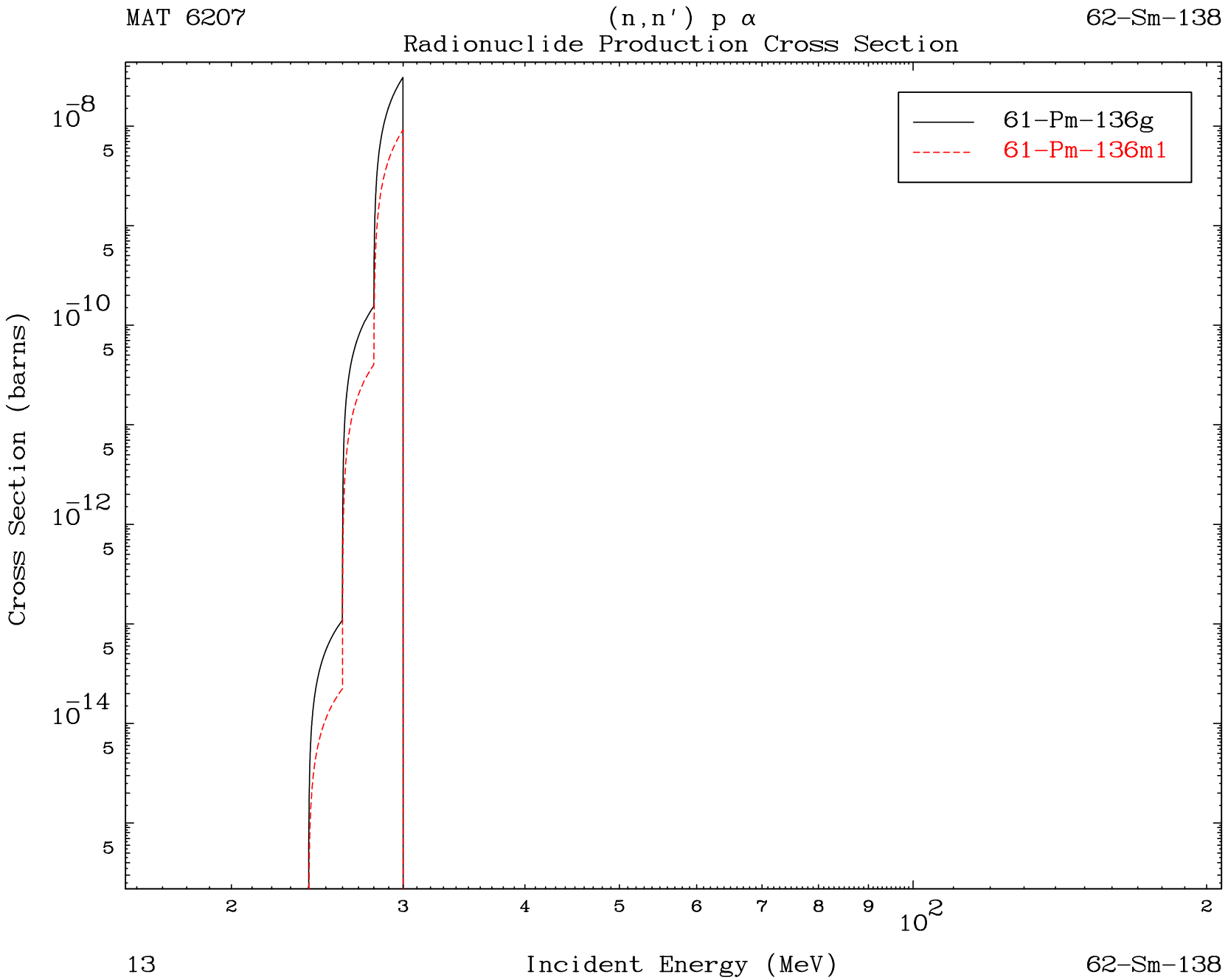
0 Kelvin Cross Sections

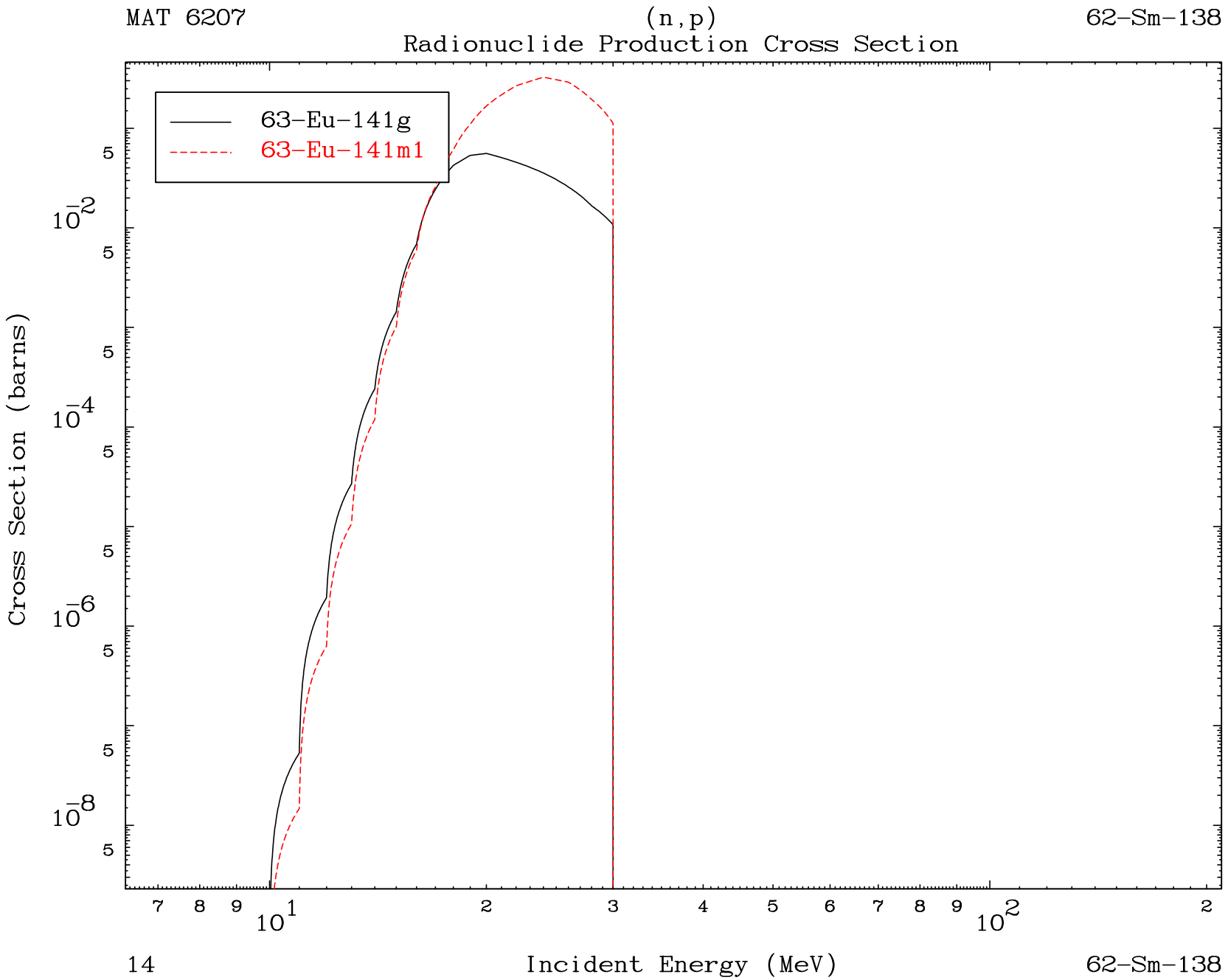


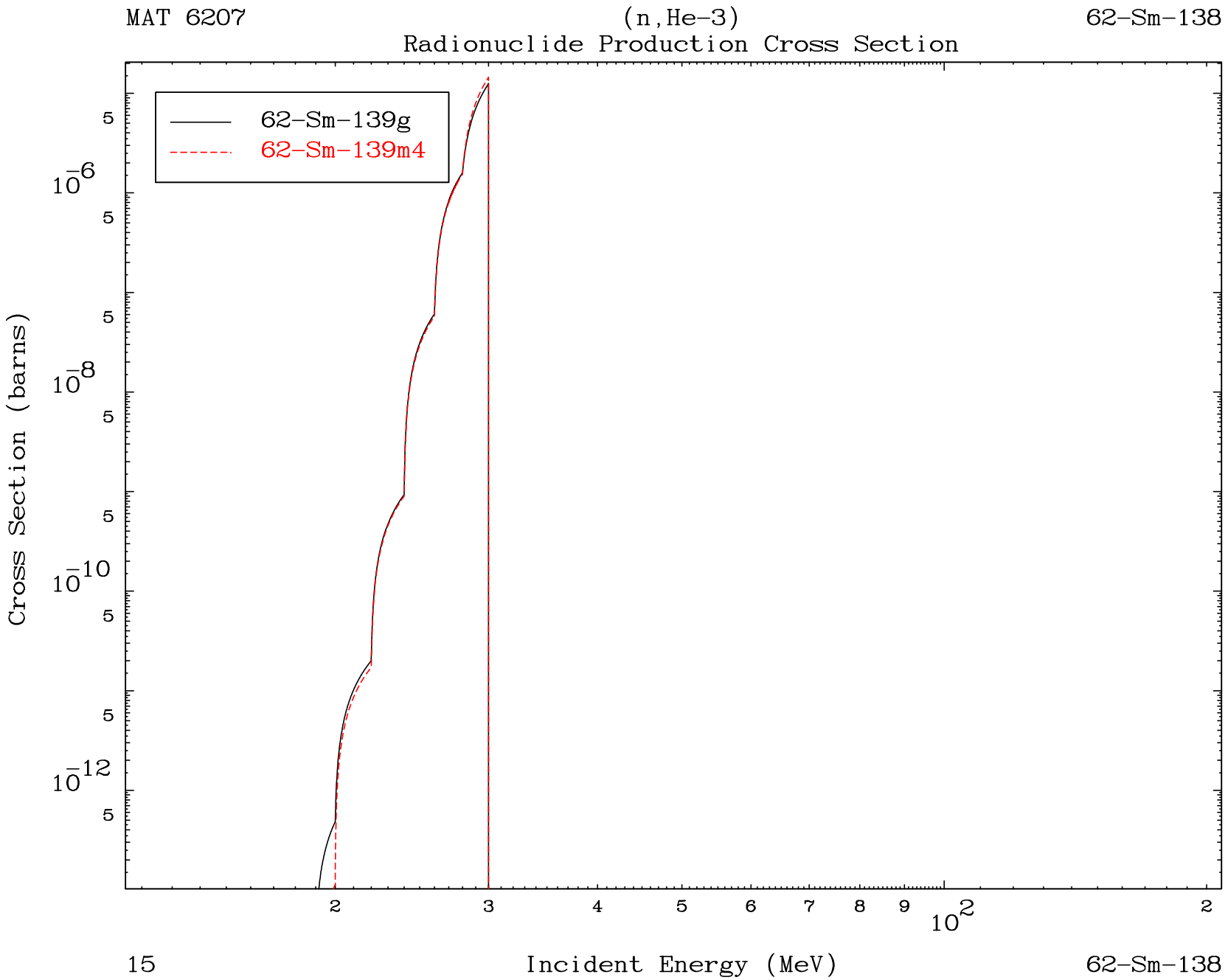

MAT 6207
(α,α) Levels
62-Sm-138
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10
Incident Energy (MeV)
62-Sm-138

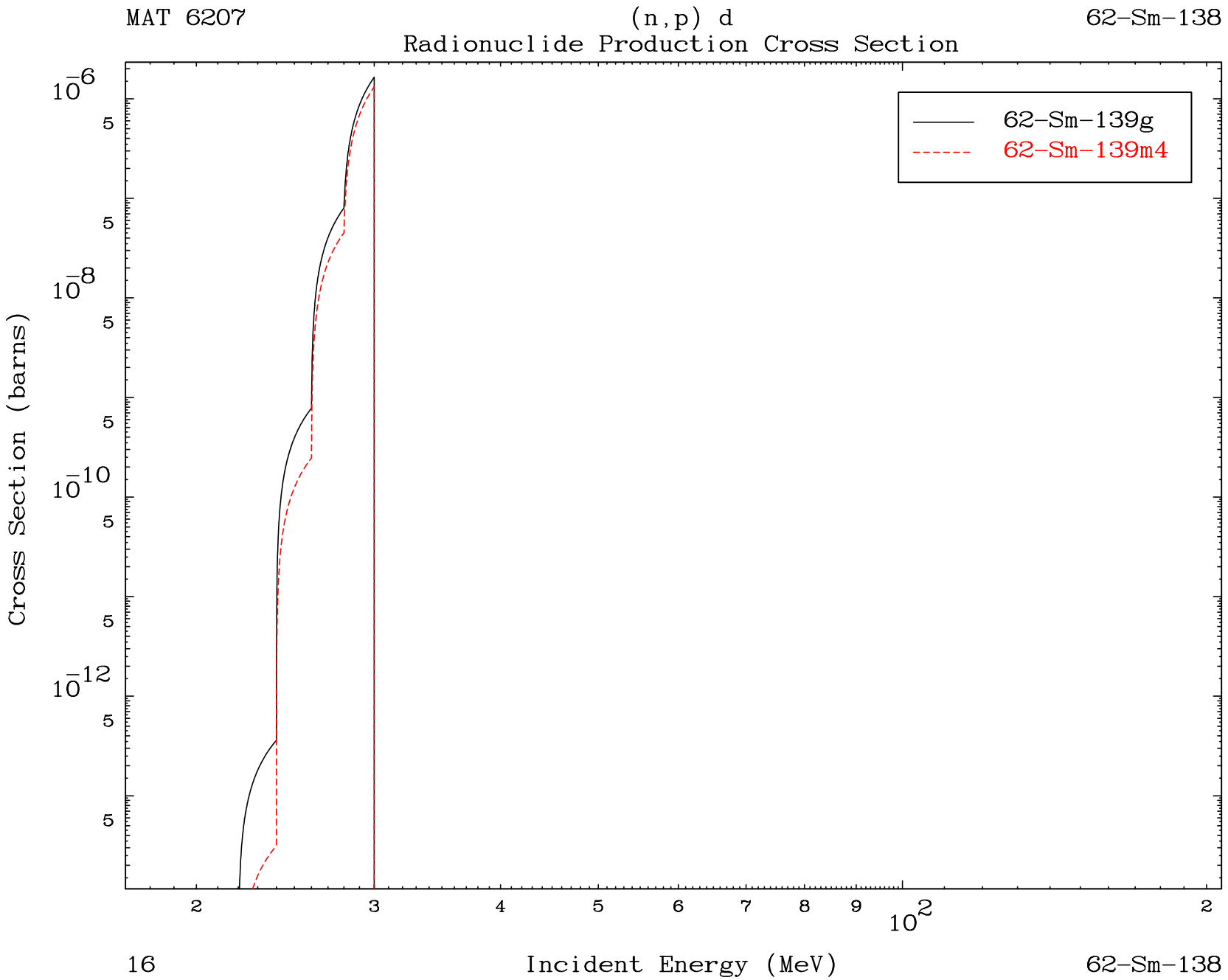

MAT 6207
Inelastic
62-Sm-138
Radionuclide Production Cross Section
64-Gd-141g
64-Gd-141m4
Cross Section (barns)
Incident Energy (MeV)
11
62-Sm-138


MAT 6207
(n,2n) p
62-Sm-138
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
12
62-Sm-138


MAT 6207
(n,n') p α
62-Sm-138
Radionuclide Production Cross Section
61-Pm-136g
61-Pm-136m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
62-Sm-138


MAT 6207
(n,p)
62-Sm-138
Radionuclide Production Cross Section
63-Eu-141g
63-Eu-141m1
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)
14
62-Sm-138


MAT 6207
(n,He-3)
62-Sm-138
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
62-Sm-138


MAT 6207
(n,p) d
62-Sm-138
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
62-Sm-138