Program EVALPLOT
(Version 2018-1)
by
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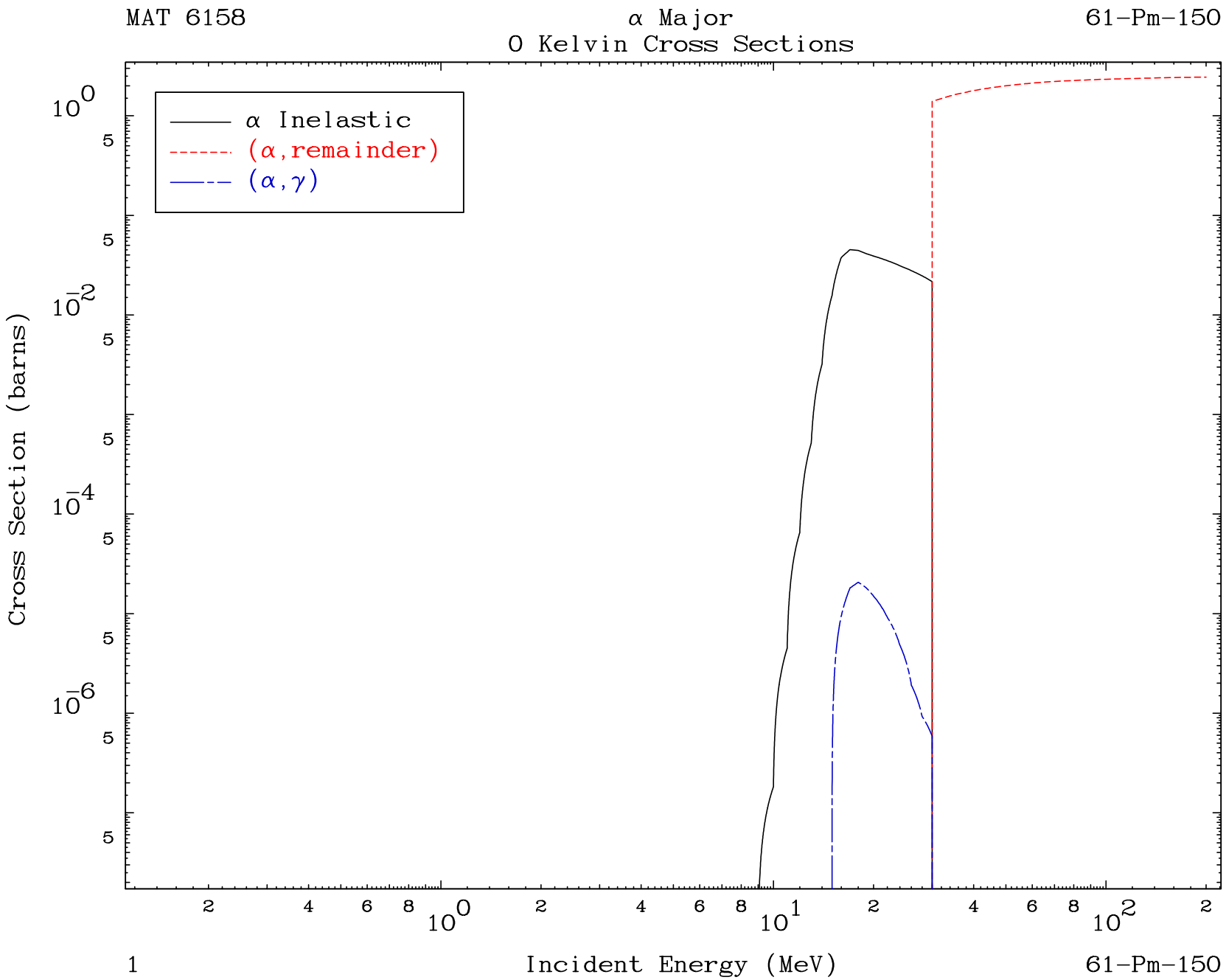
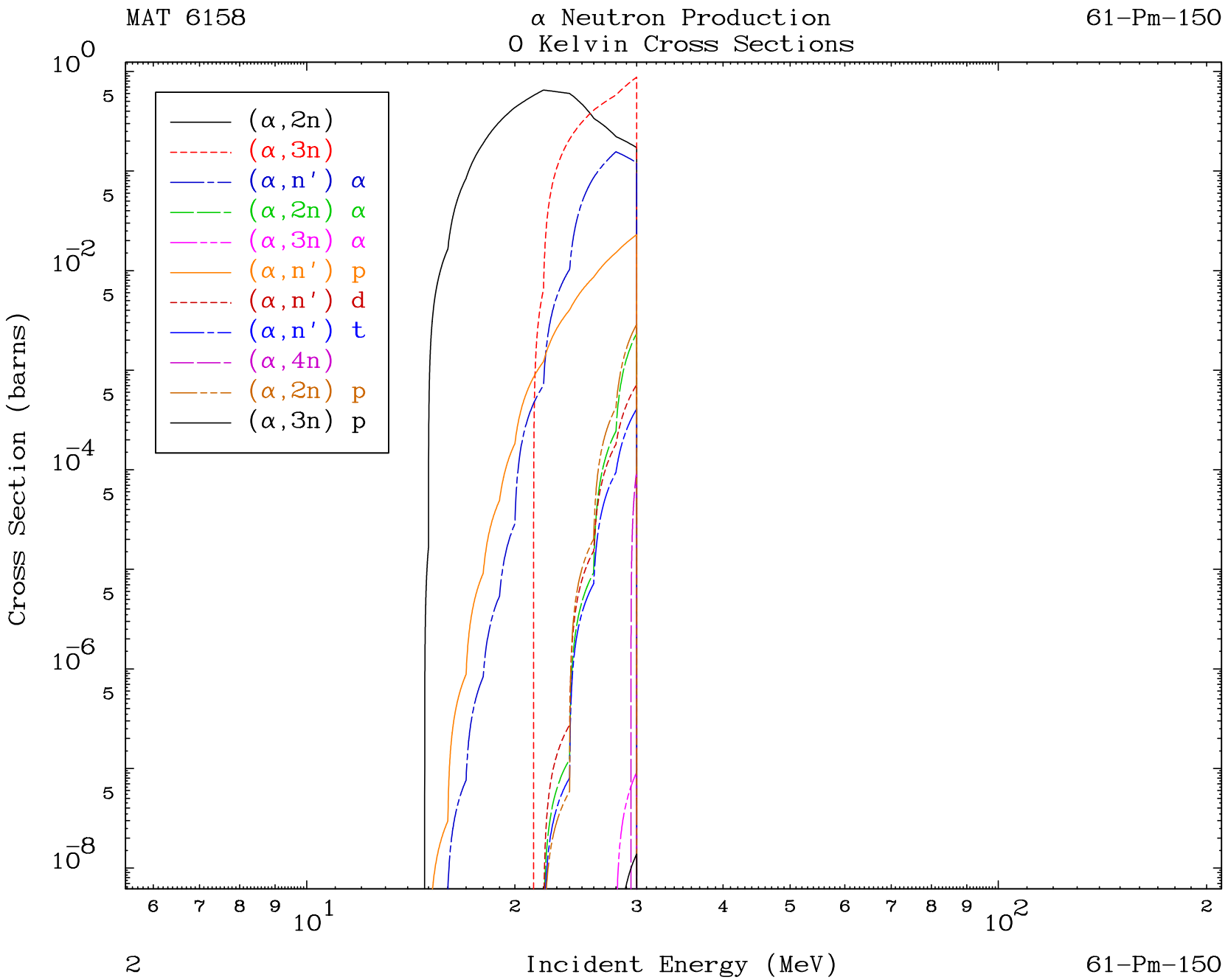
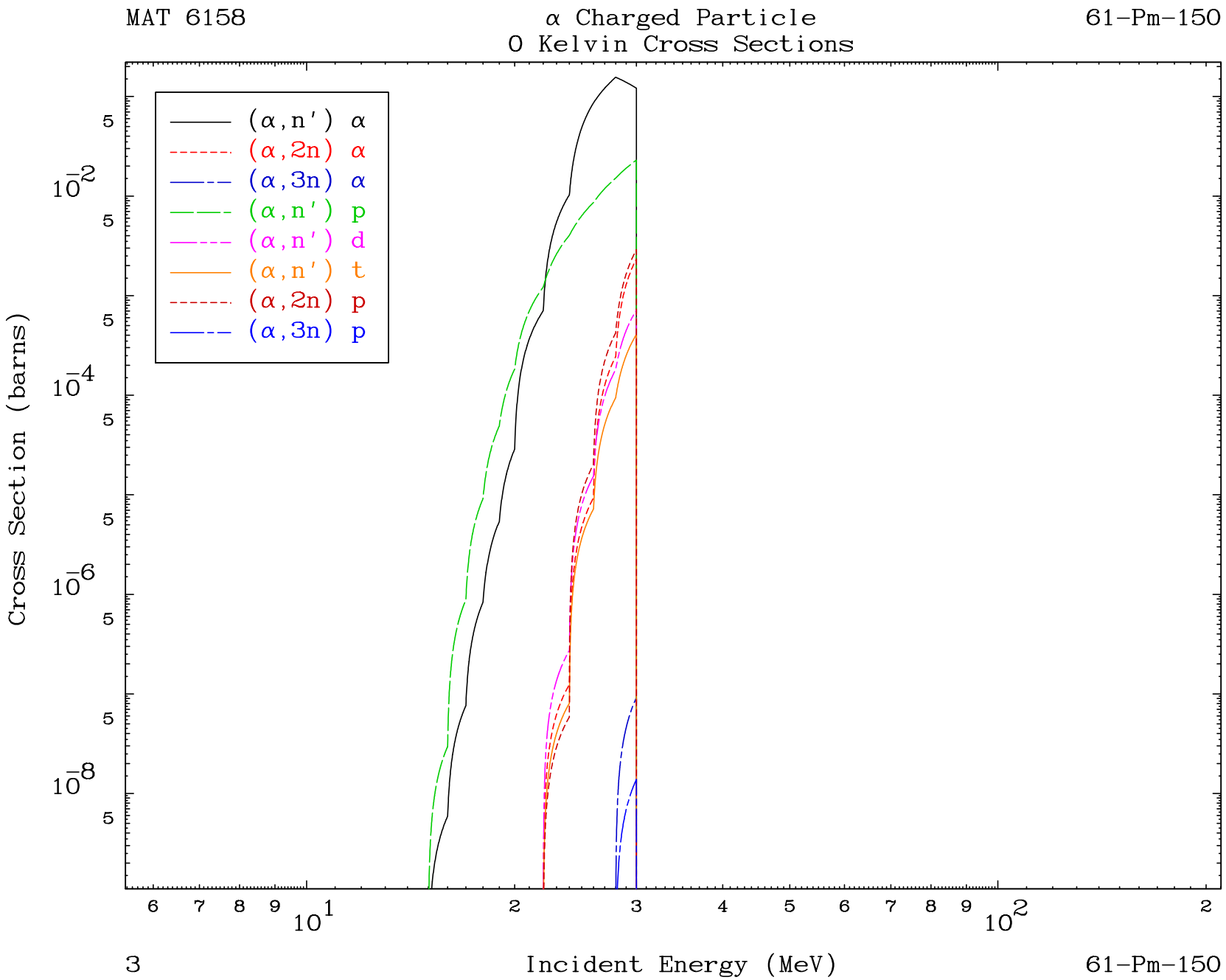
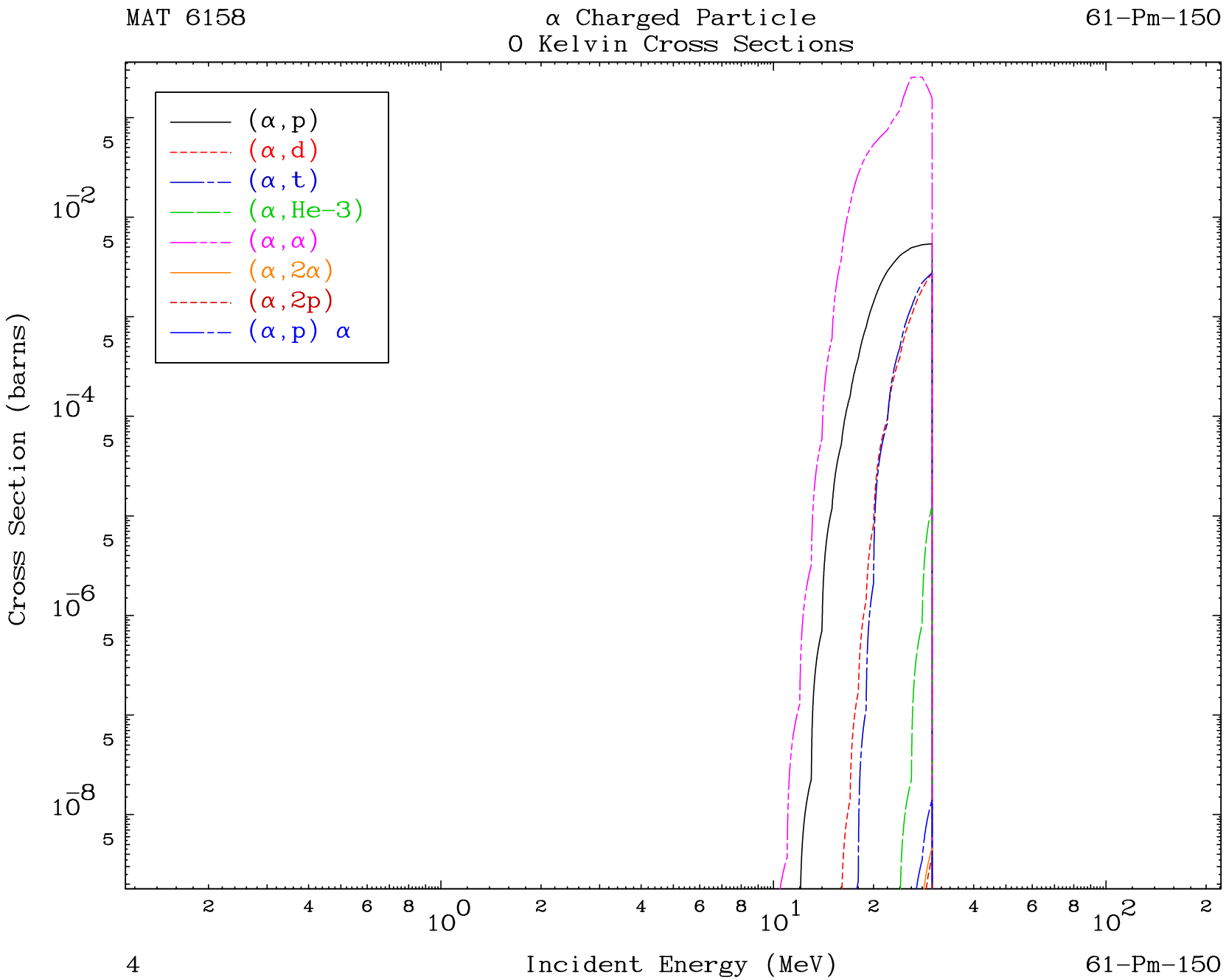
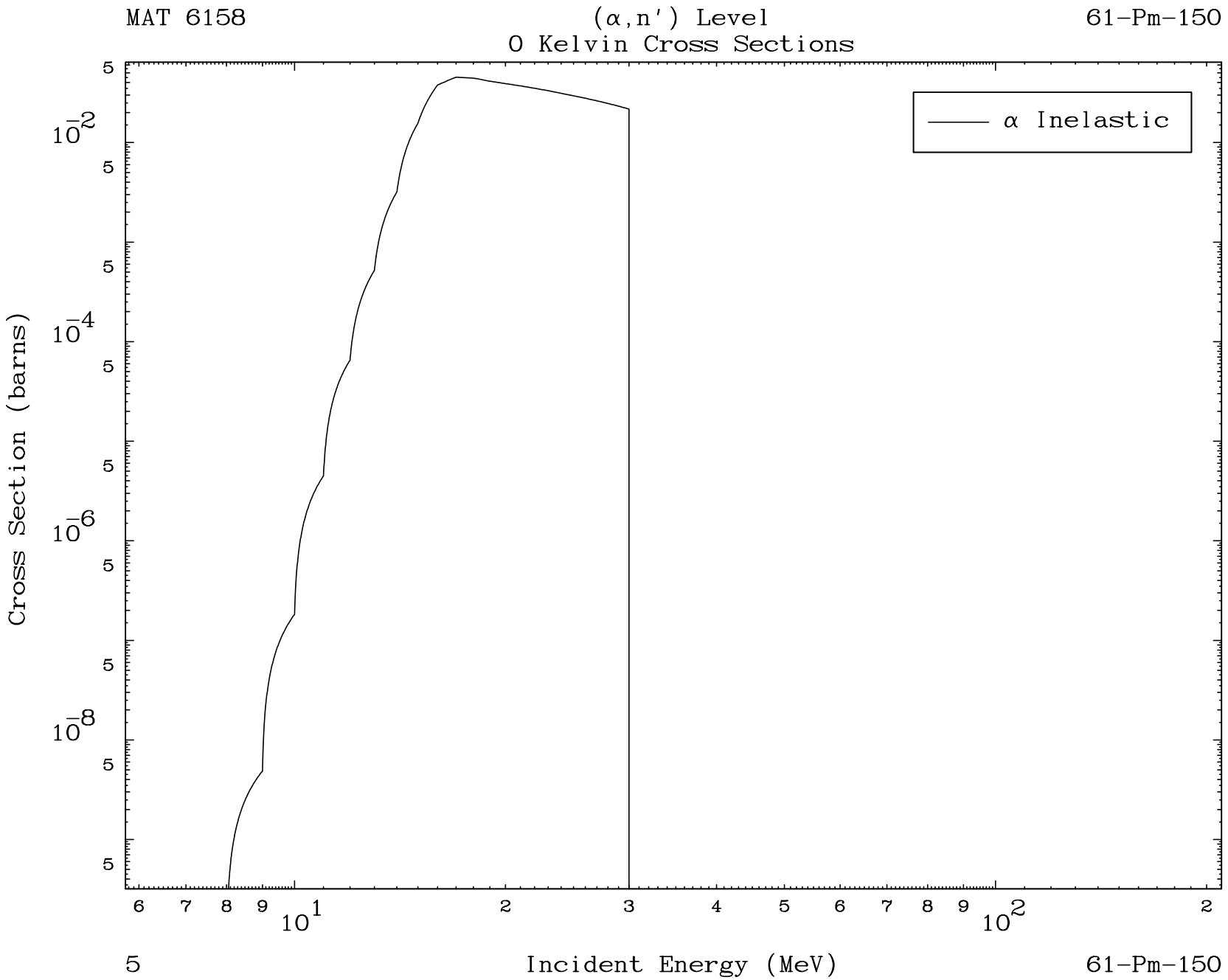
Press Mouse Button to Start

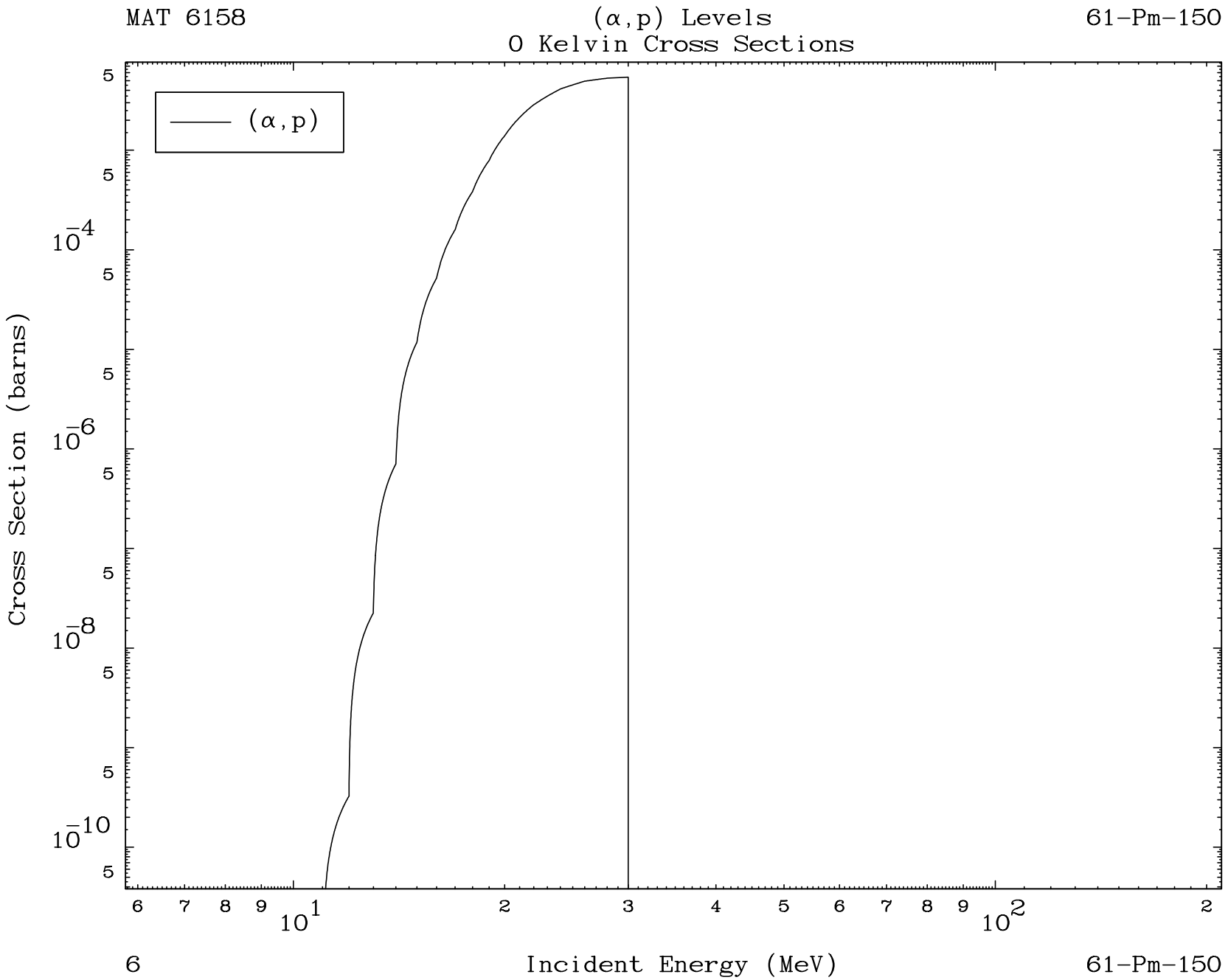

MAT 6158
α Major
61-Pm-150
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
61-Pm-150
1

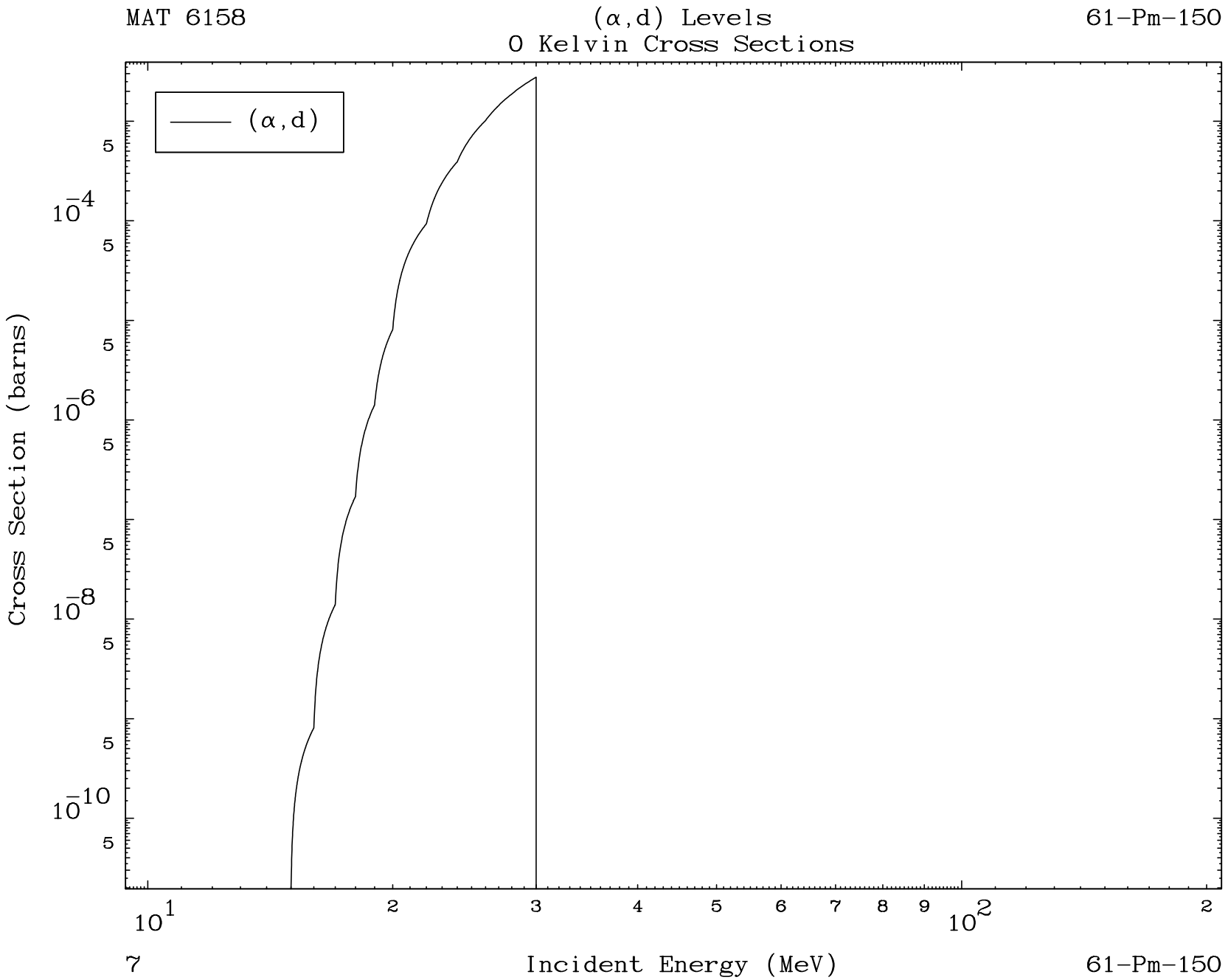

MAT 6158
α Neutron Production
0 Kelvin Cross Sections
61-Pm-150
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,4n)
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
61-Pm-150
2


MAT 6158
α Charged Particle
0 Kelvin Cross Sections
61-Pm-150
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
61-Pm-150

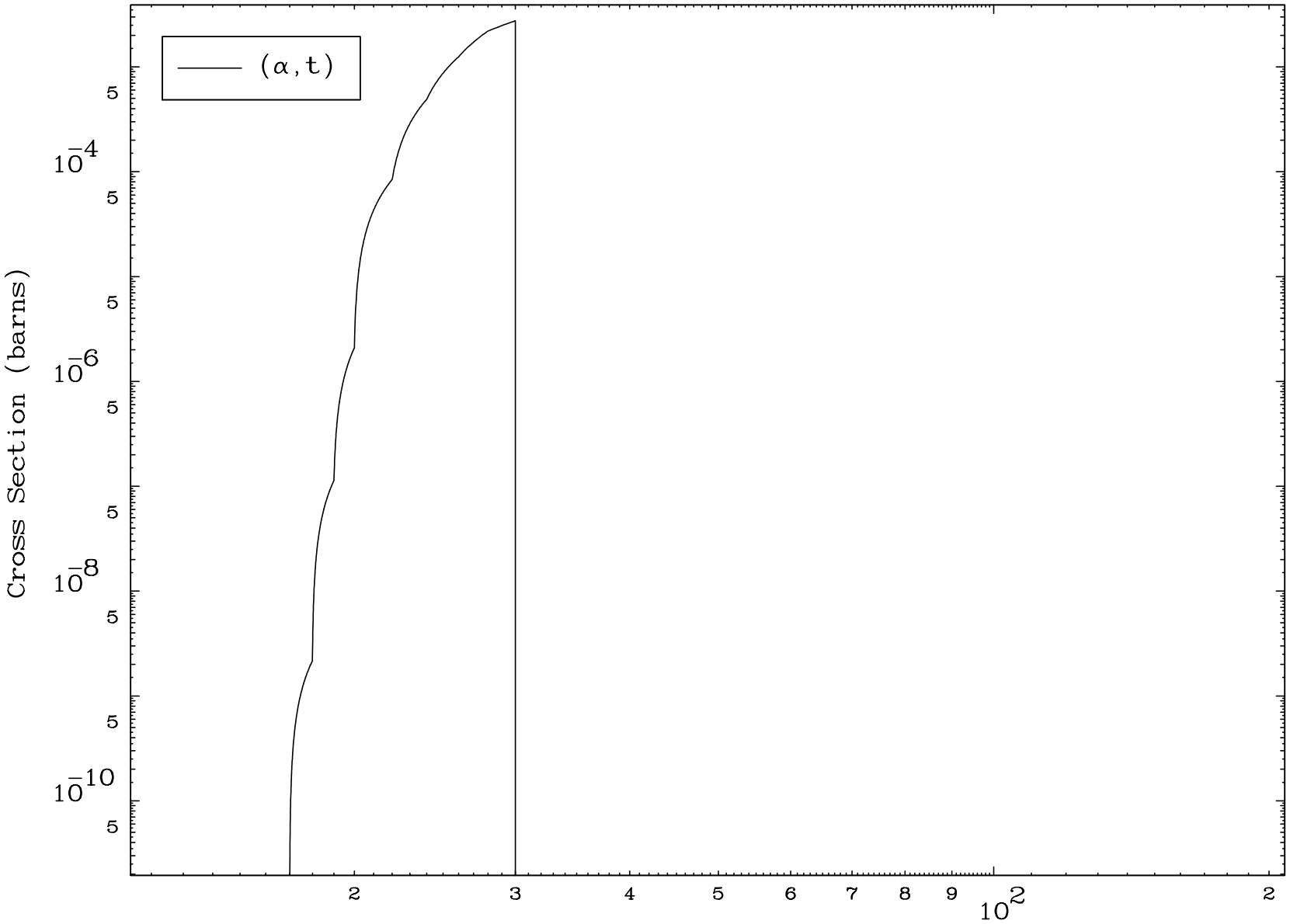

MAT 6158
α Charged Particle
0 Kelvin Cross Sections
61-Pm-150
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
Cross Section (barns)
Incident Energy (MeV)
4
61-Pm-150

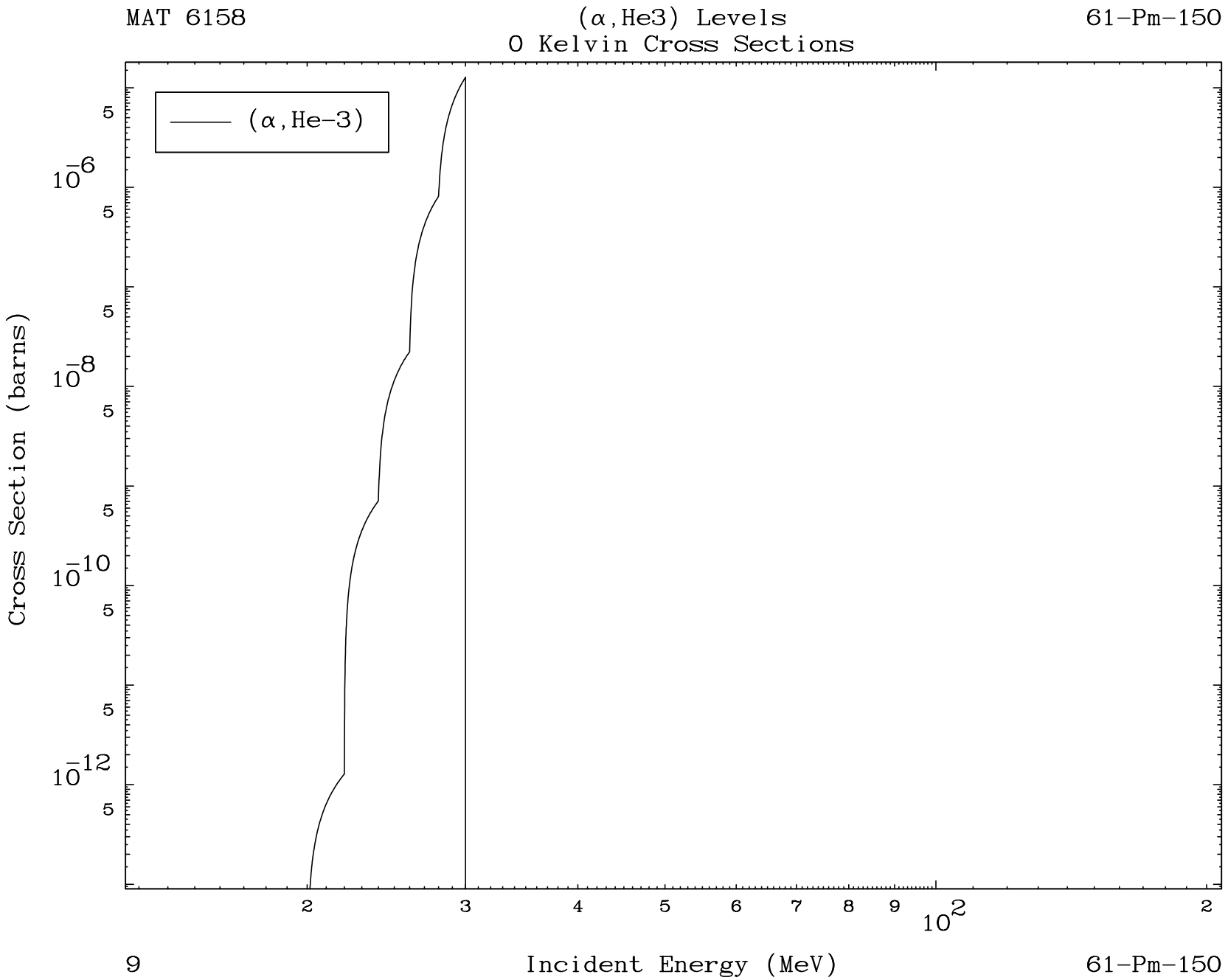

MAT 6158
(α,n') Level
61-Pm-150
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
61-Pm-150

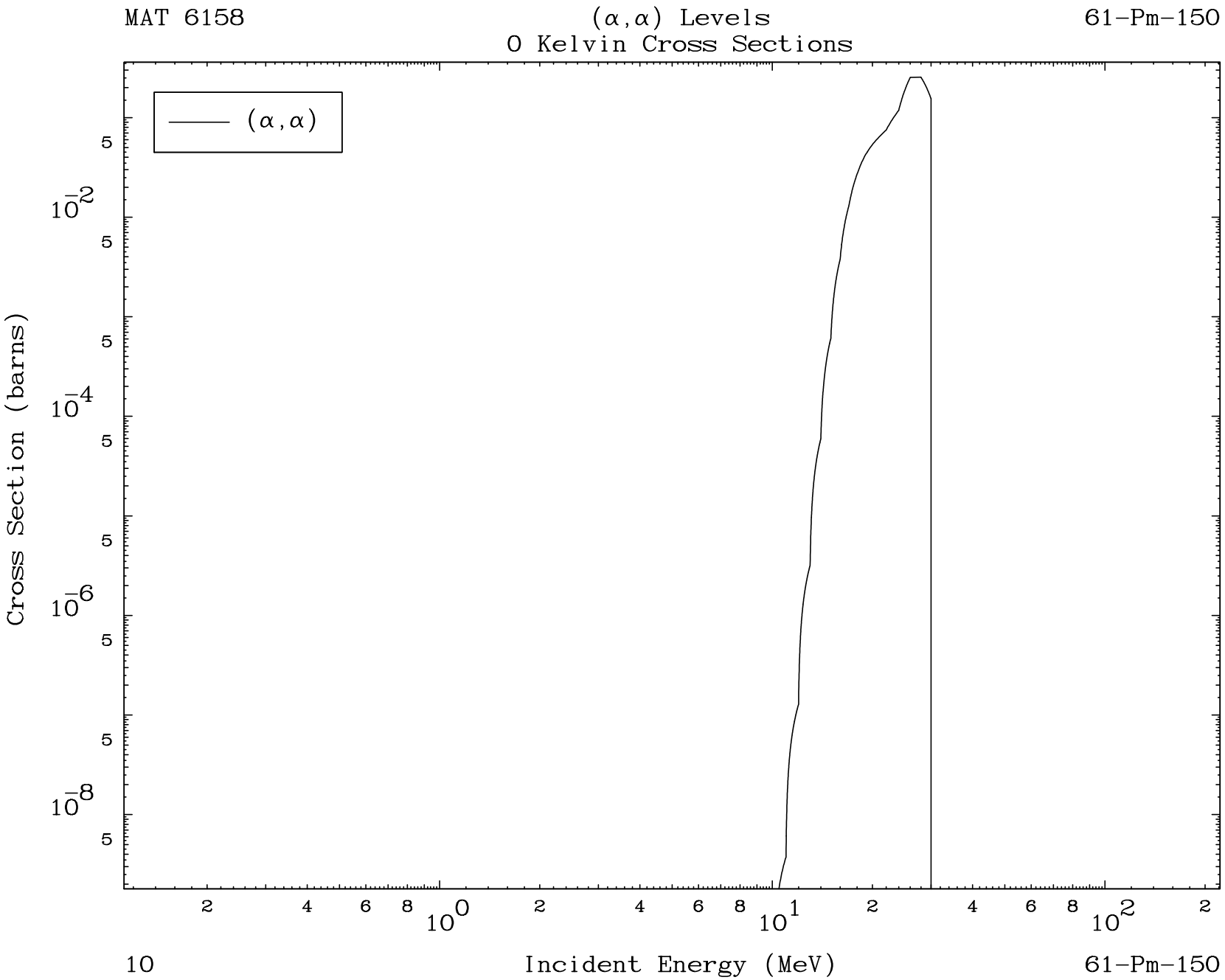

MAT 6158
(α,p) Levels
61-Pm-150
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
Incident Energy (MeV)
61-Pm-150
6

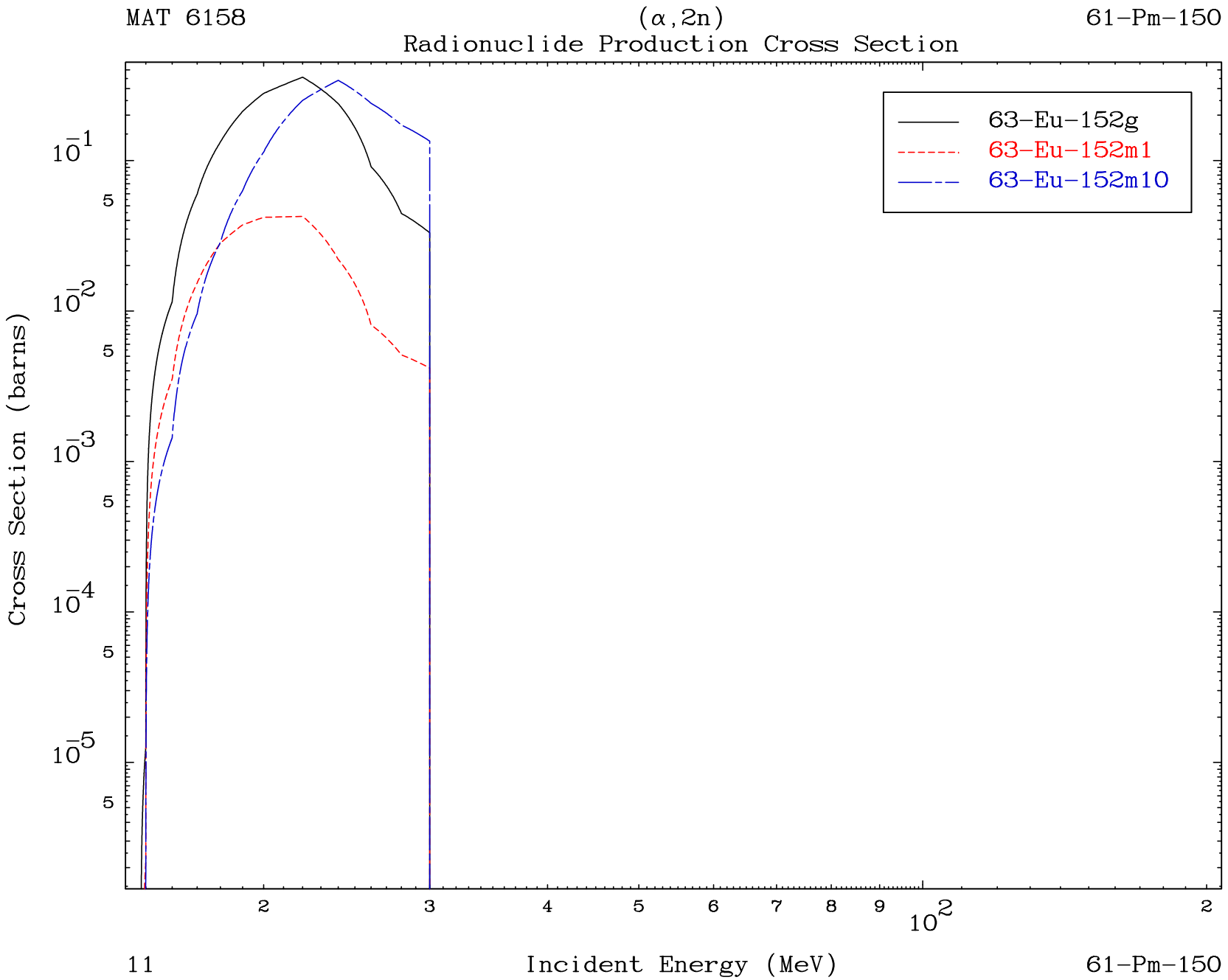

MAT 6158
(α,d) Levels
61-Pm-150
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
7
61-Pm-150

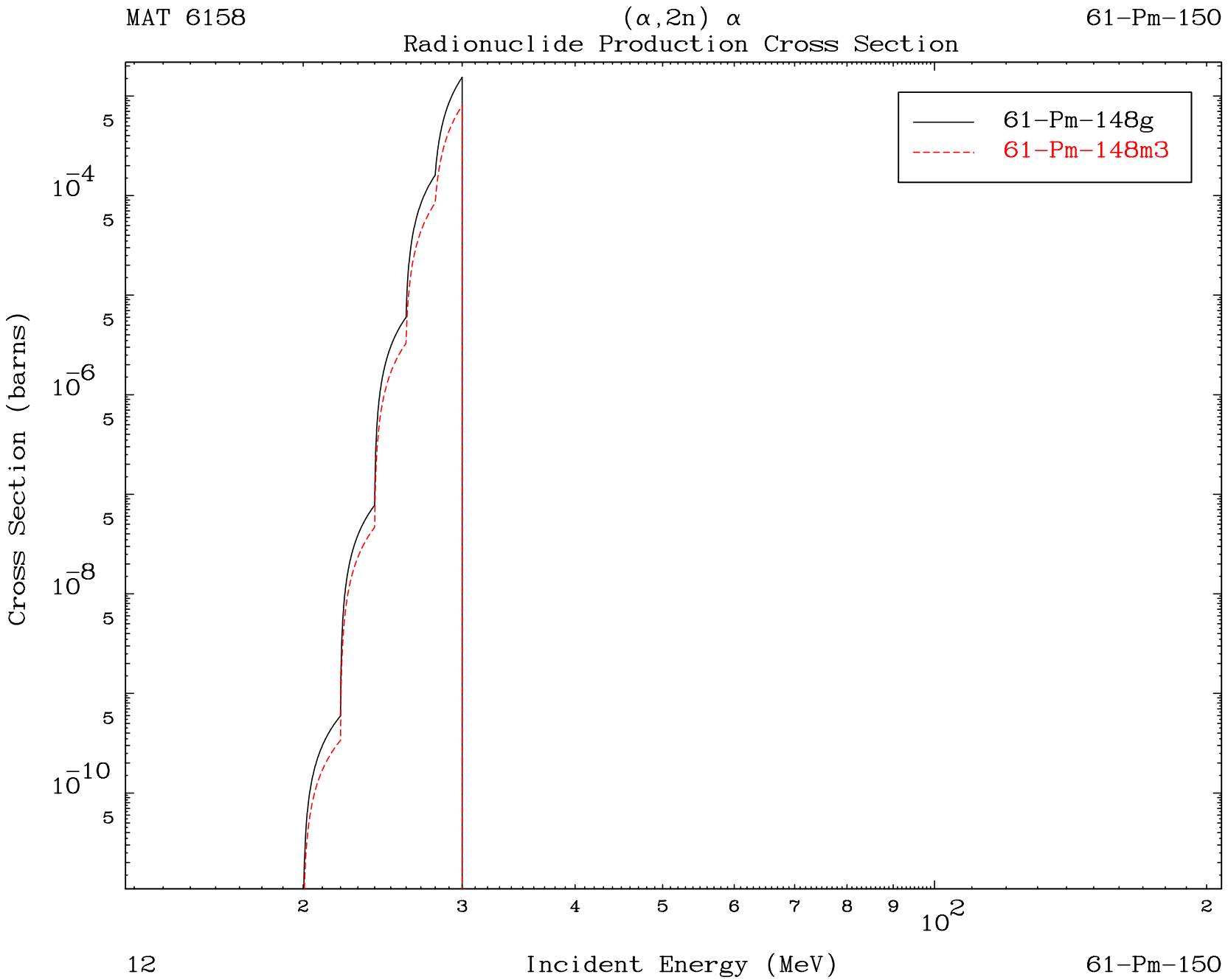
0 Kelvin Cross Sections

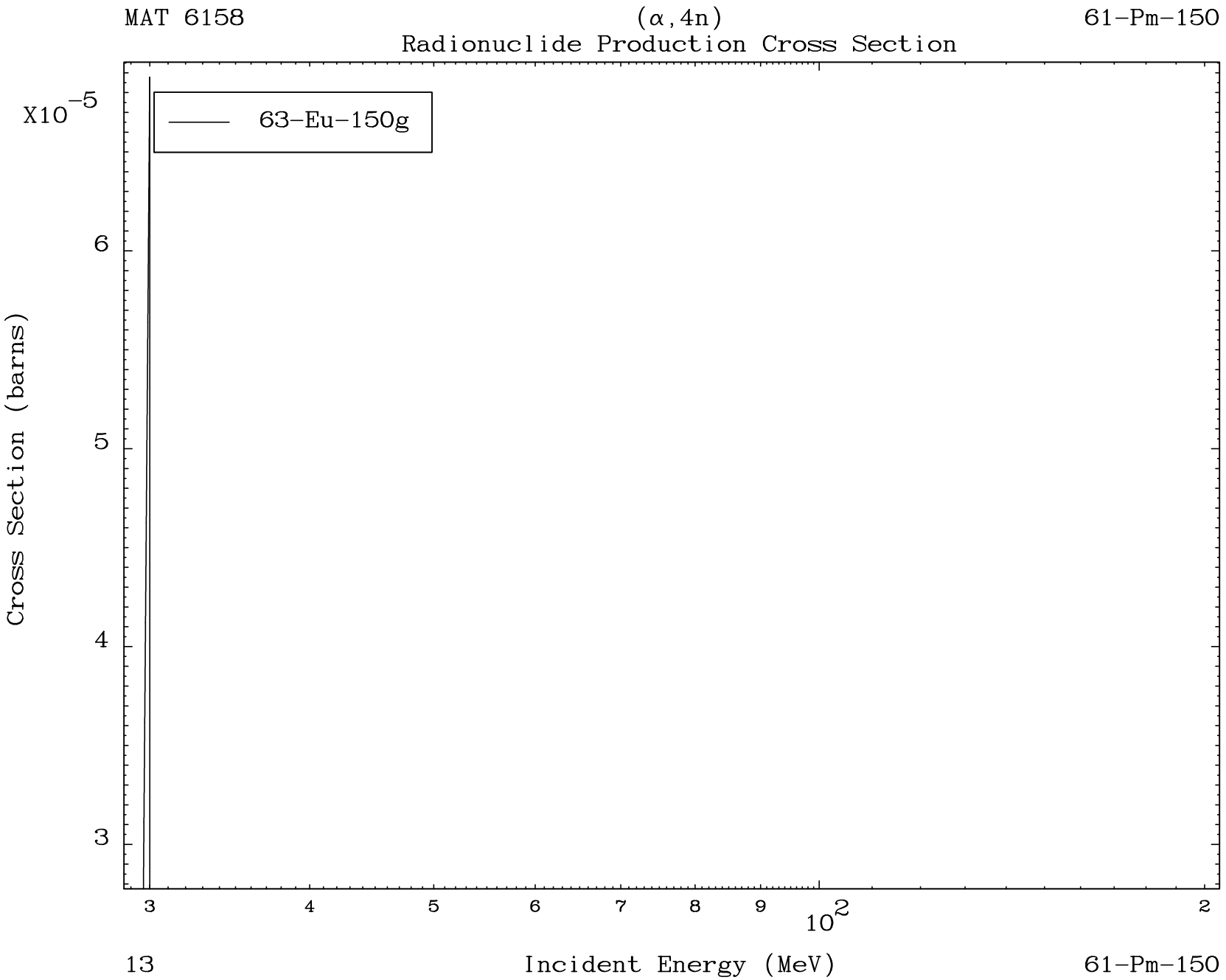


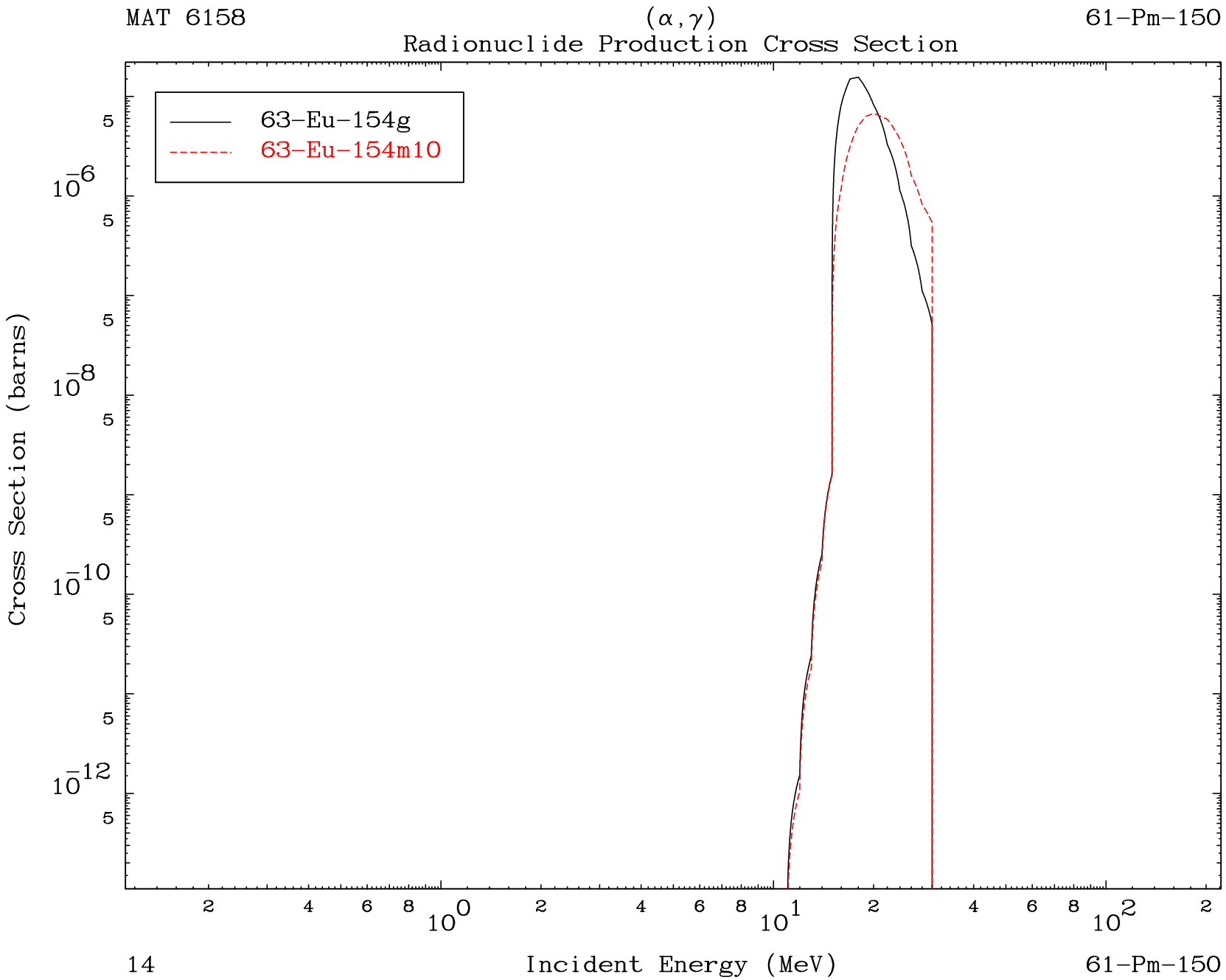

MAT 6158
(α,He3) Levels
61-Pm-150
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
9
Incident Energy (MeV)
61-Pm-150

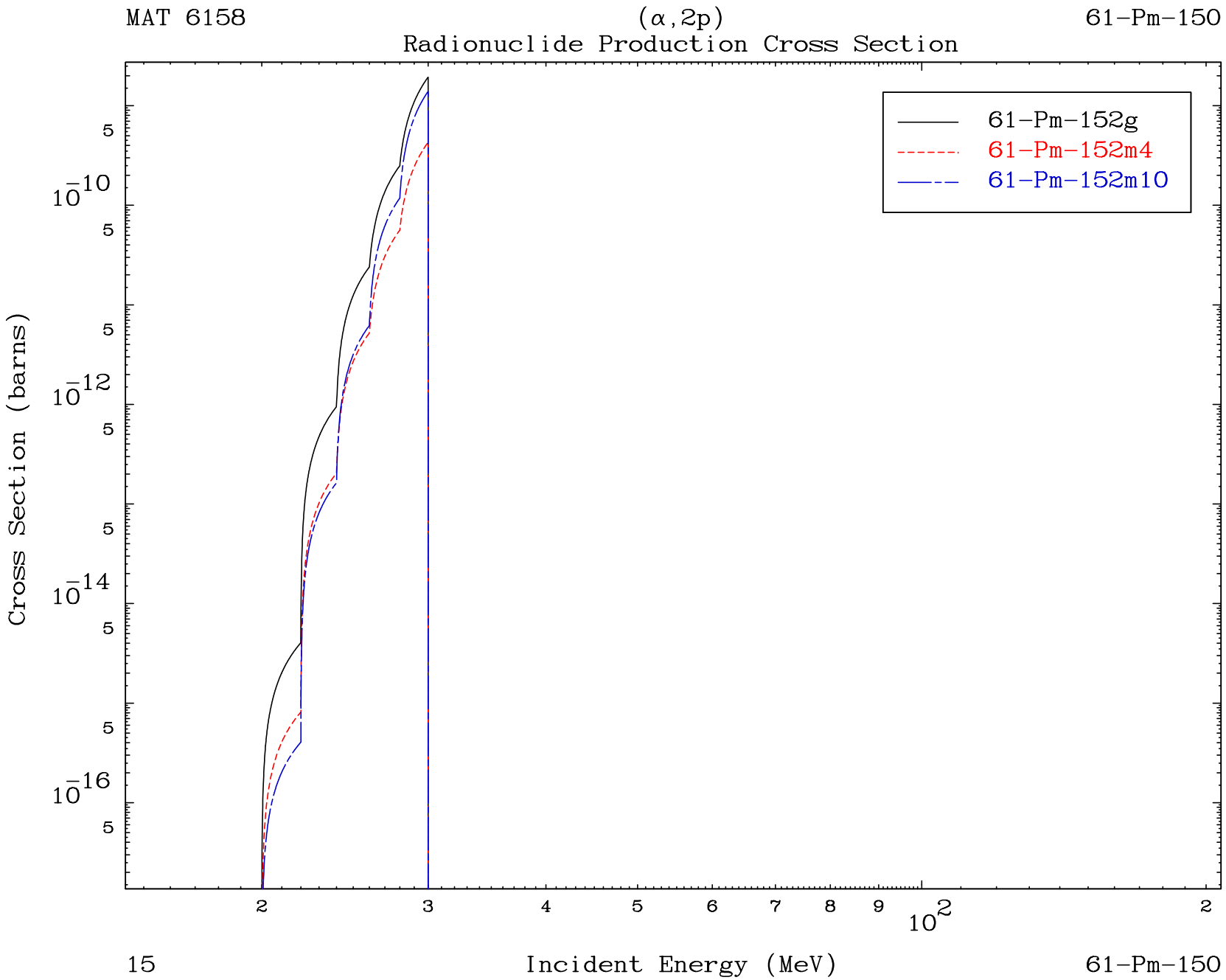

MAT 6158
(α,α) Levels
61-Pm-150
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
61-Pm-150


MAT 6158
(α,2n)
61-Pm-150
Radionuclide Production Cross Section
63-Eu-152g
63-Eu-152m1
63-Eu-152m10
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
61-Pm-150


MAT 6158
(α,2n) α
61-Pm-150
Radionuclide Production Cross Section
61-Pm-148g
61-Pm-148m3
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)
61-Pm-150


MAT 6158
(α,4n)
61-Pm-150
Radionuclide Production Cross Section
X10-5
63-Eu-150g
Cross Section (barns)
6
5
4
3
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
61-Pm-150


MAT 6158
(α,γ)
61-Pm-150
Radionuclide Production Cross Section
63-Eu-154g
63-Eu-154m10
Cross Section (barns)
10-6
10-8
10-10
10-12
100
101
102
Incident Energy (MeV)
14
61-Pm-150


MAT 6158
(α,2p)
61-Pm-150
Radionuclide Production Cross Section
61-Pm-152g
61-Pm-152m4
61-Pm-152m10
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
2
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
61-Pm-150