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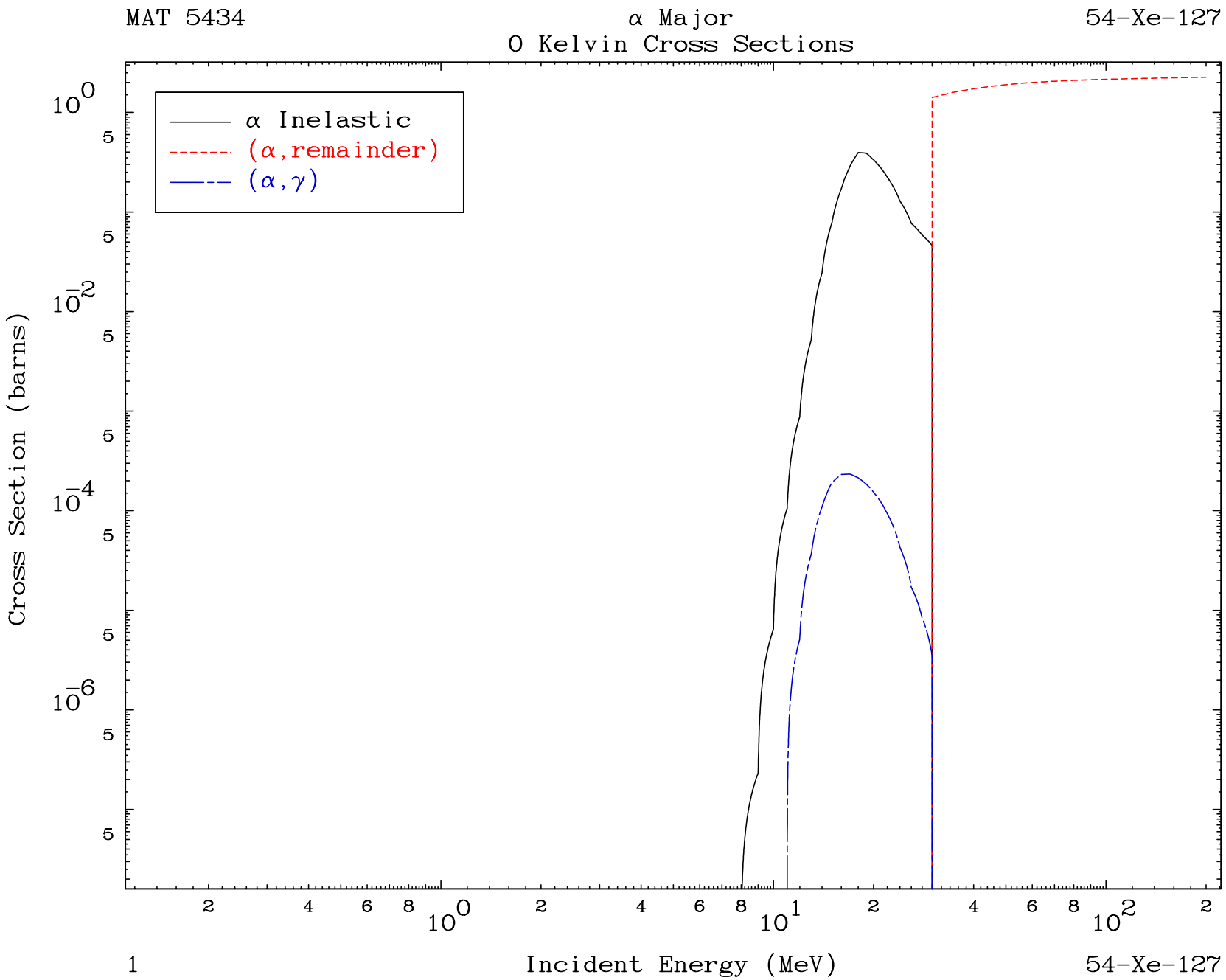
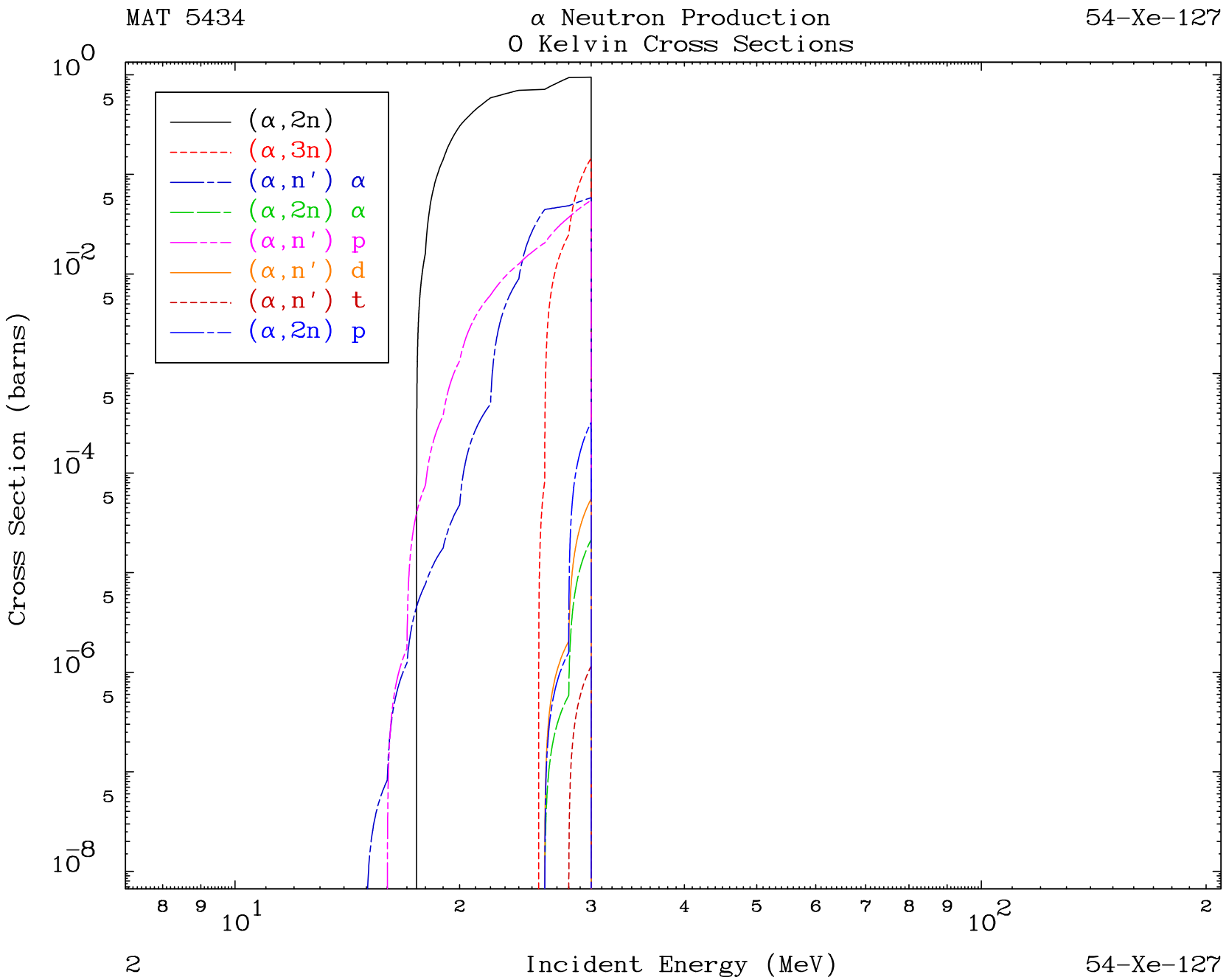
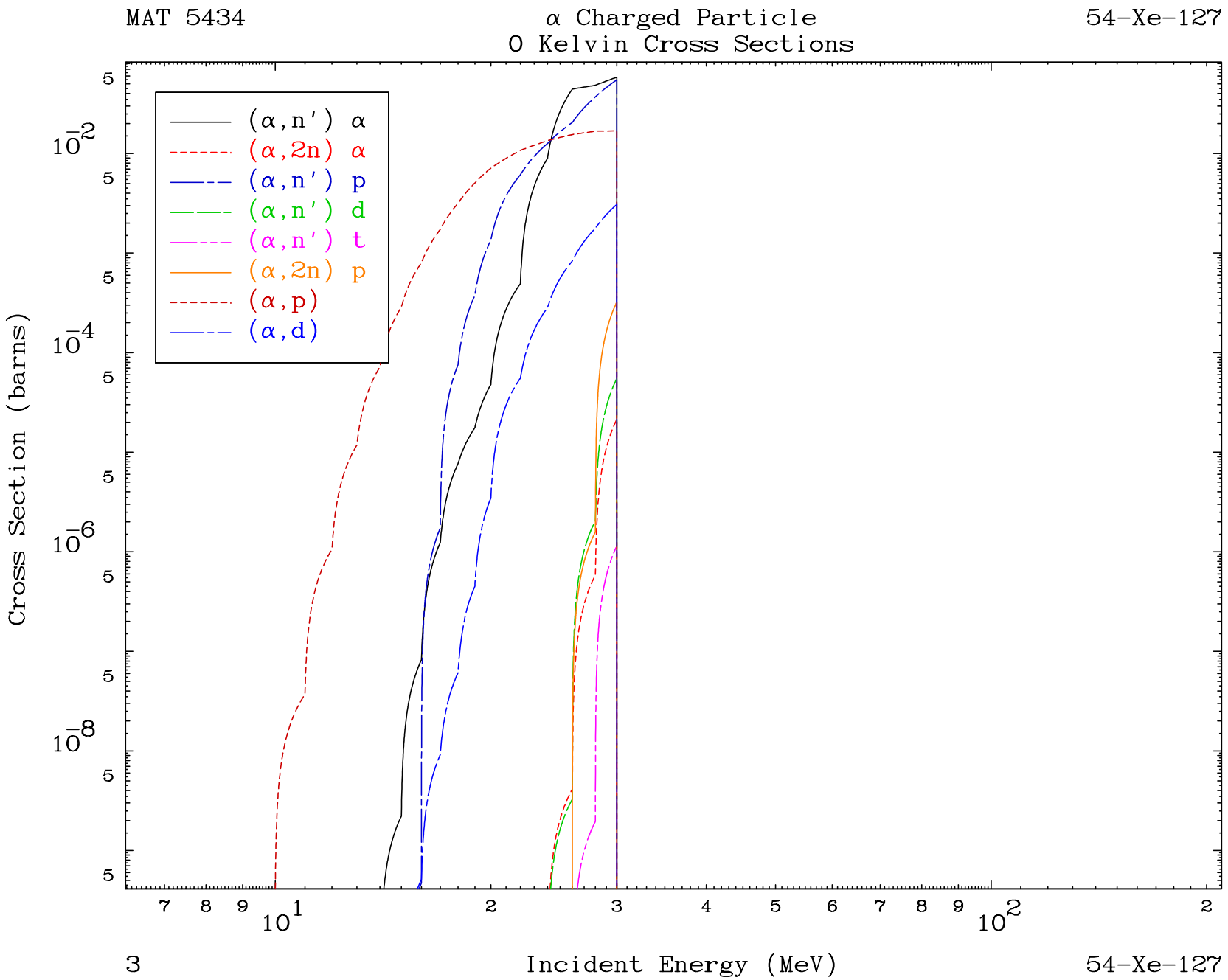
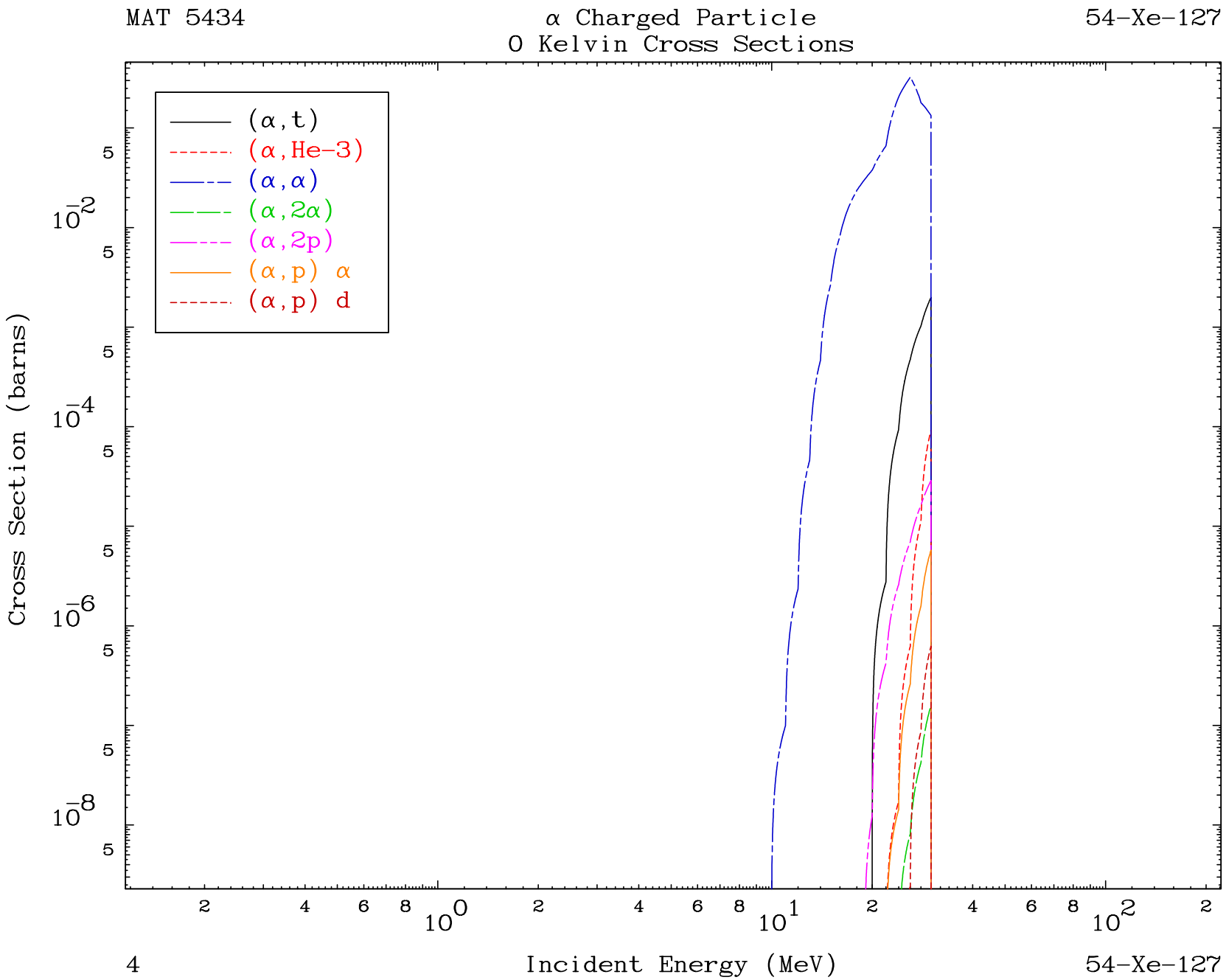
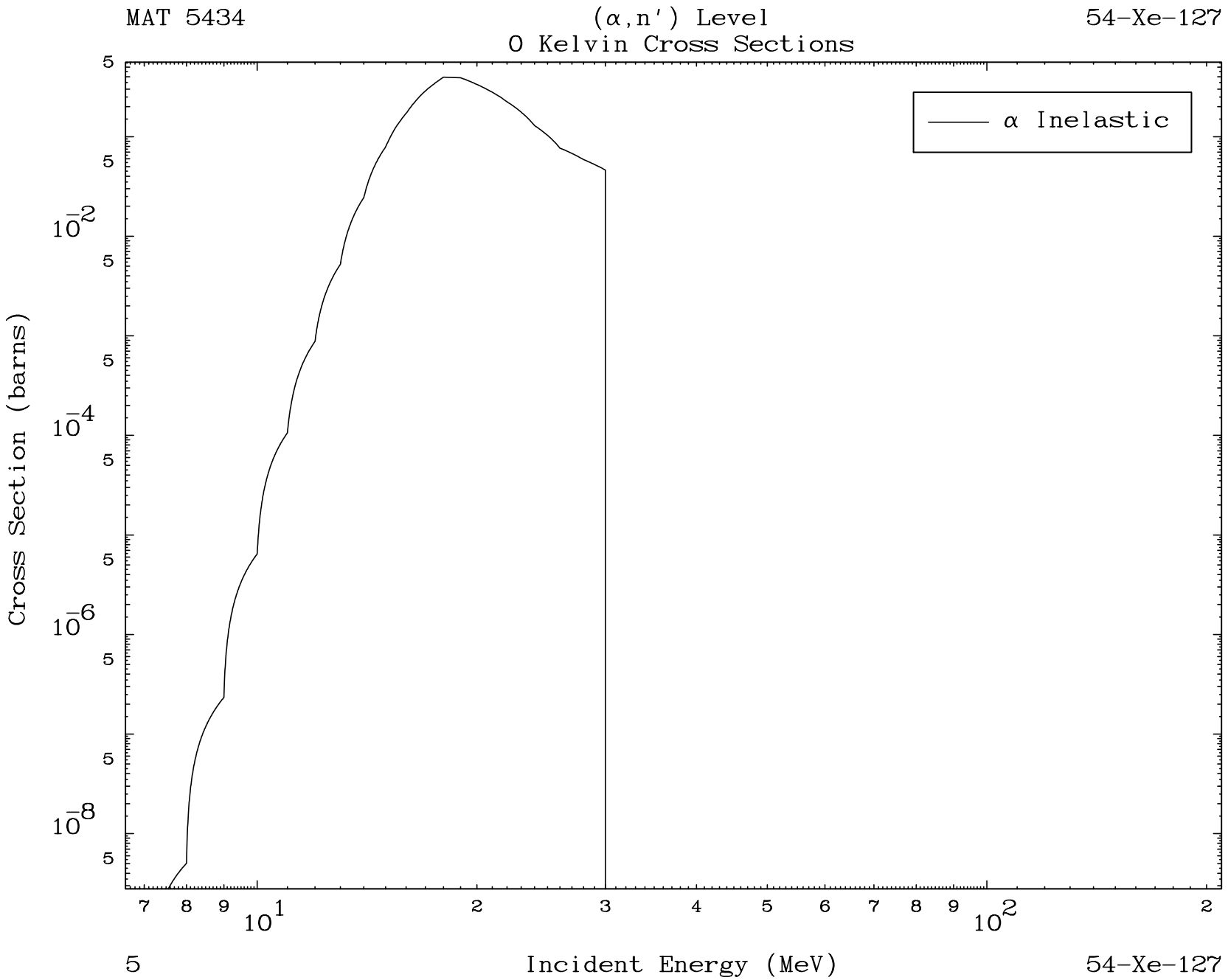
Press Mouse Button to Start

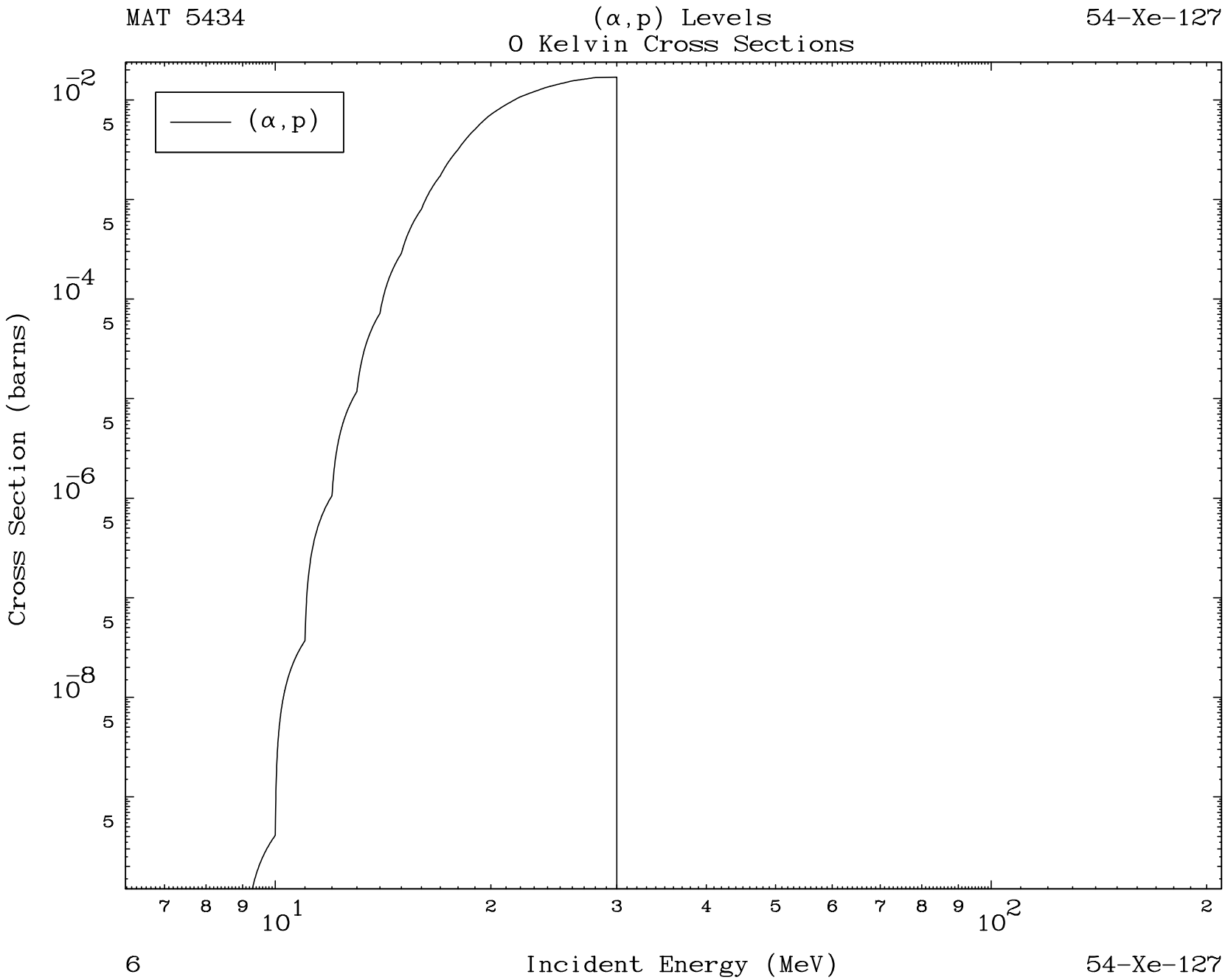

MAT 5434
α Major
54-Xe-127
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
54-Xe-127

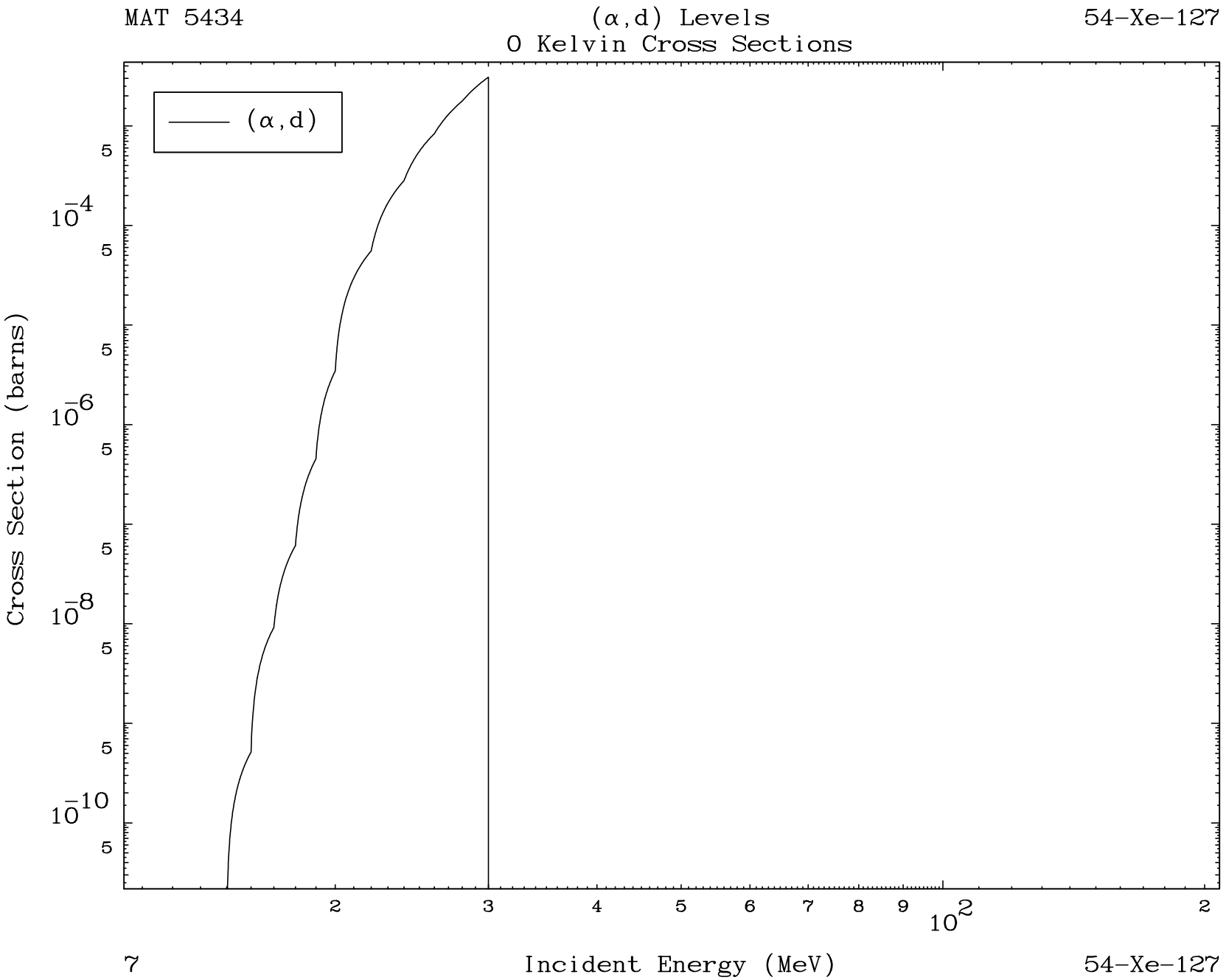

MAT 5434
α Neutron Production
0 Kelvin Cross Sections
54-Xe-127
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
54-Xe-127

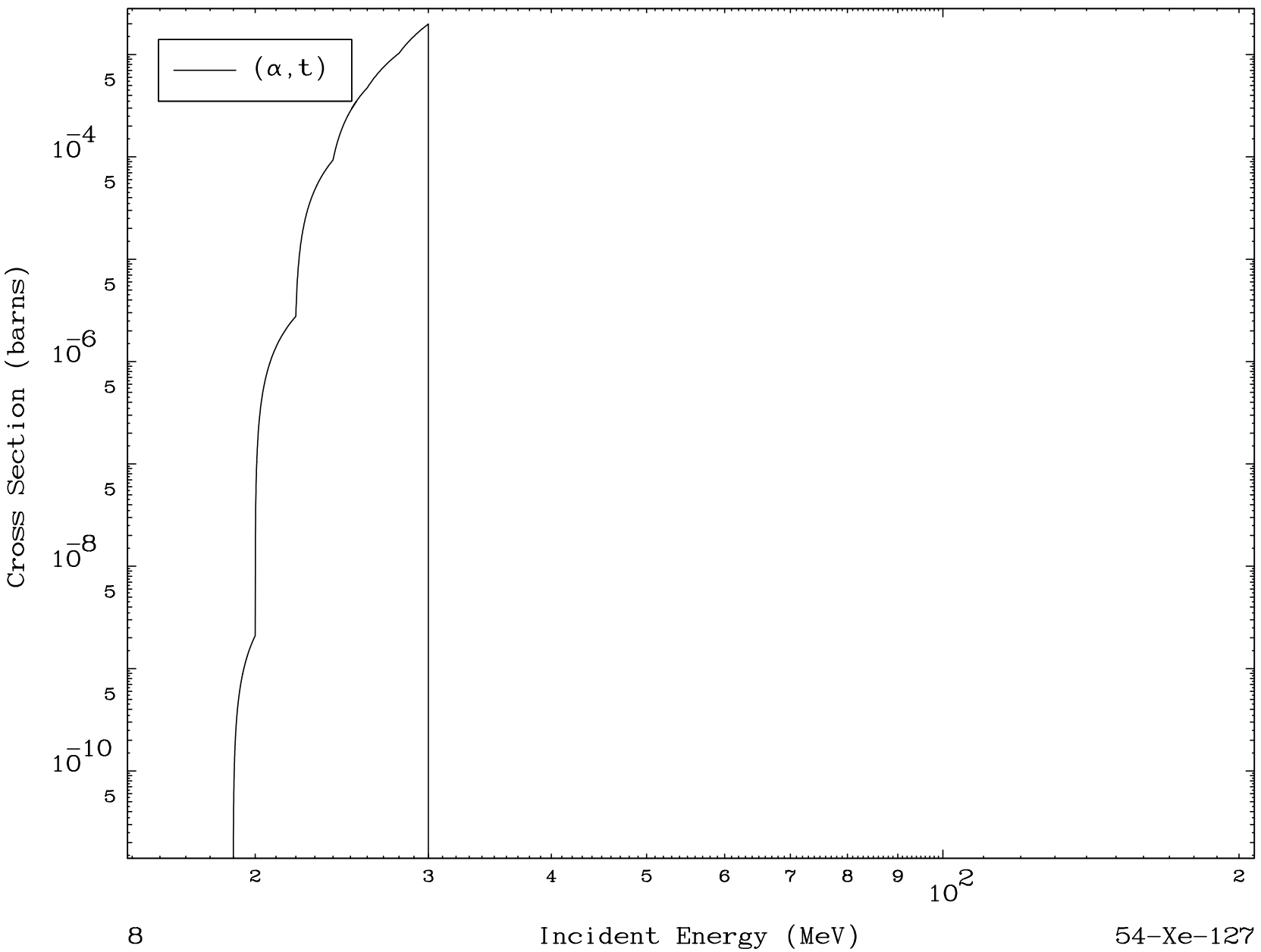

MAT 5434
α Charged Particle
0 Kelvin Cross Sections
54-Xe-127
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
(α,p)
(α,d)
Cross Section (barns)
Incident Energy (MeV)
3
54-Xe-127

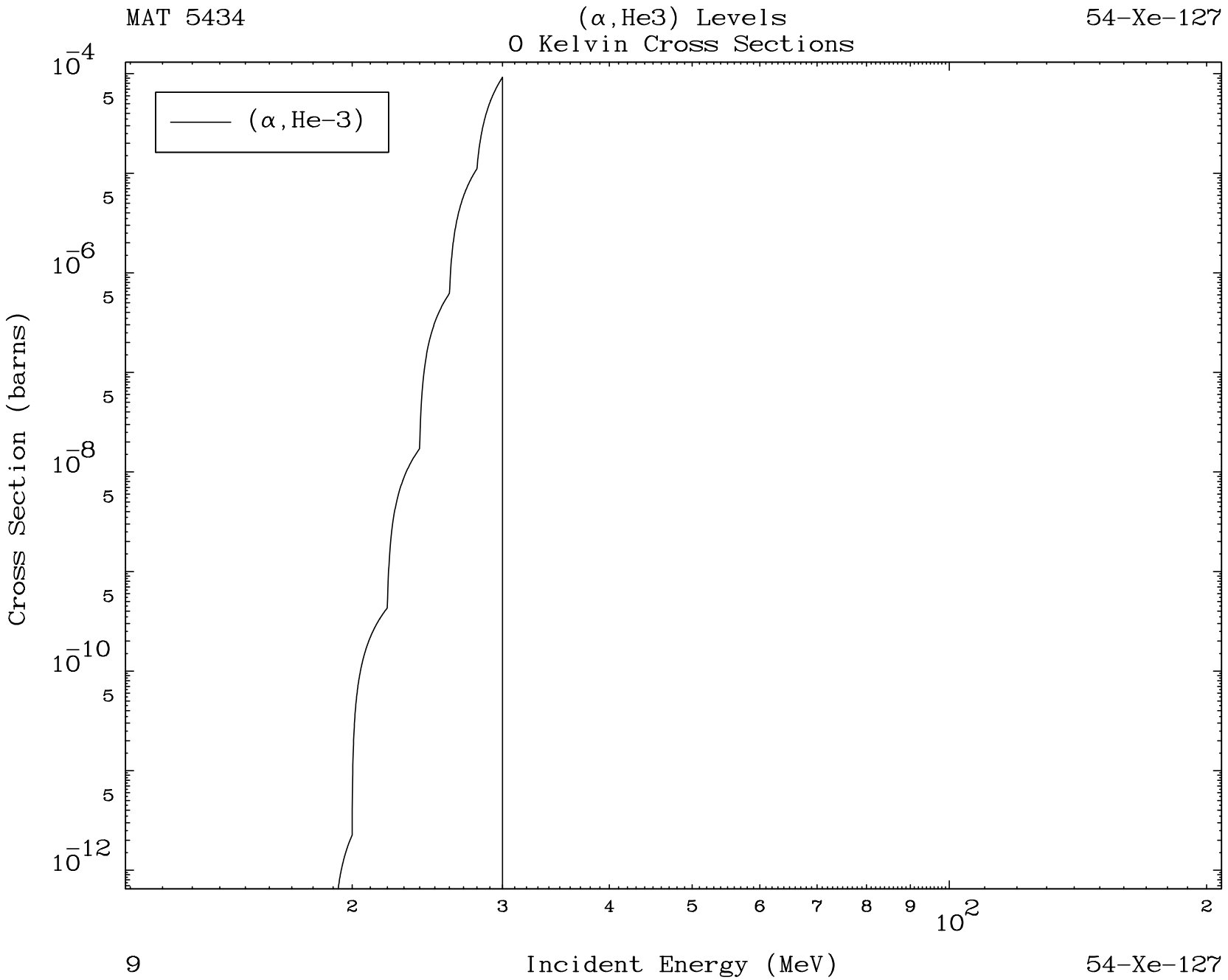

MAT 5434
α Charged Particle
0 Kelvin Cross Sections
54-Xe-127
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
Cross Section (barns)
Incident Energy (MeV)
4
54-Xe-127

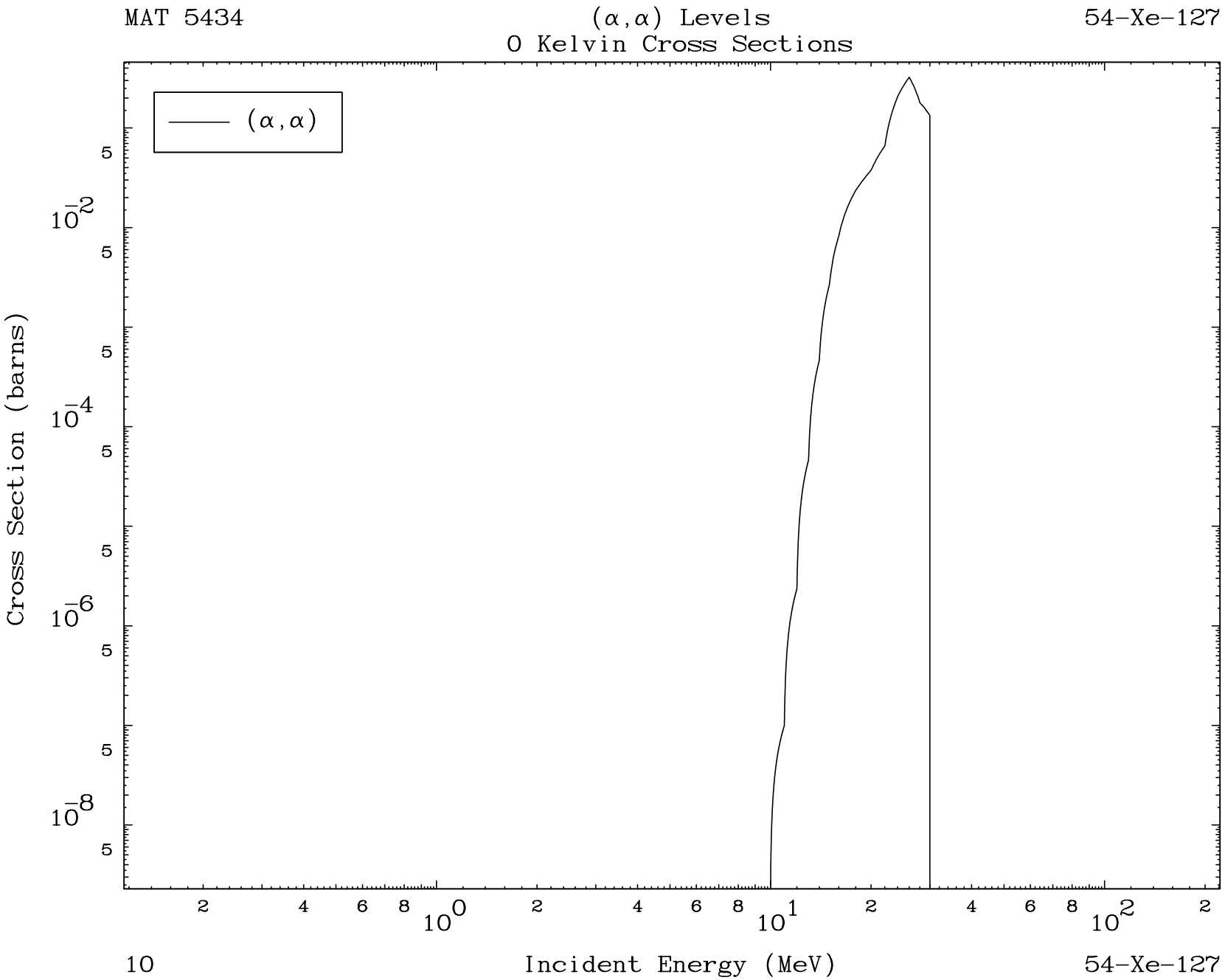

MAT 5434
(α,n') Level
54-Xe-127
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
5
54-Xe-127

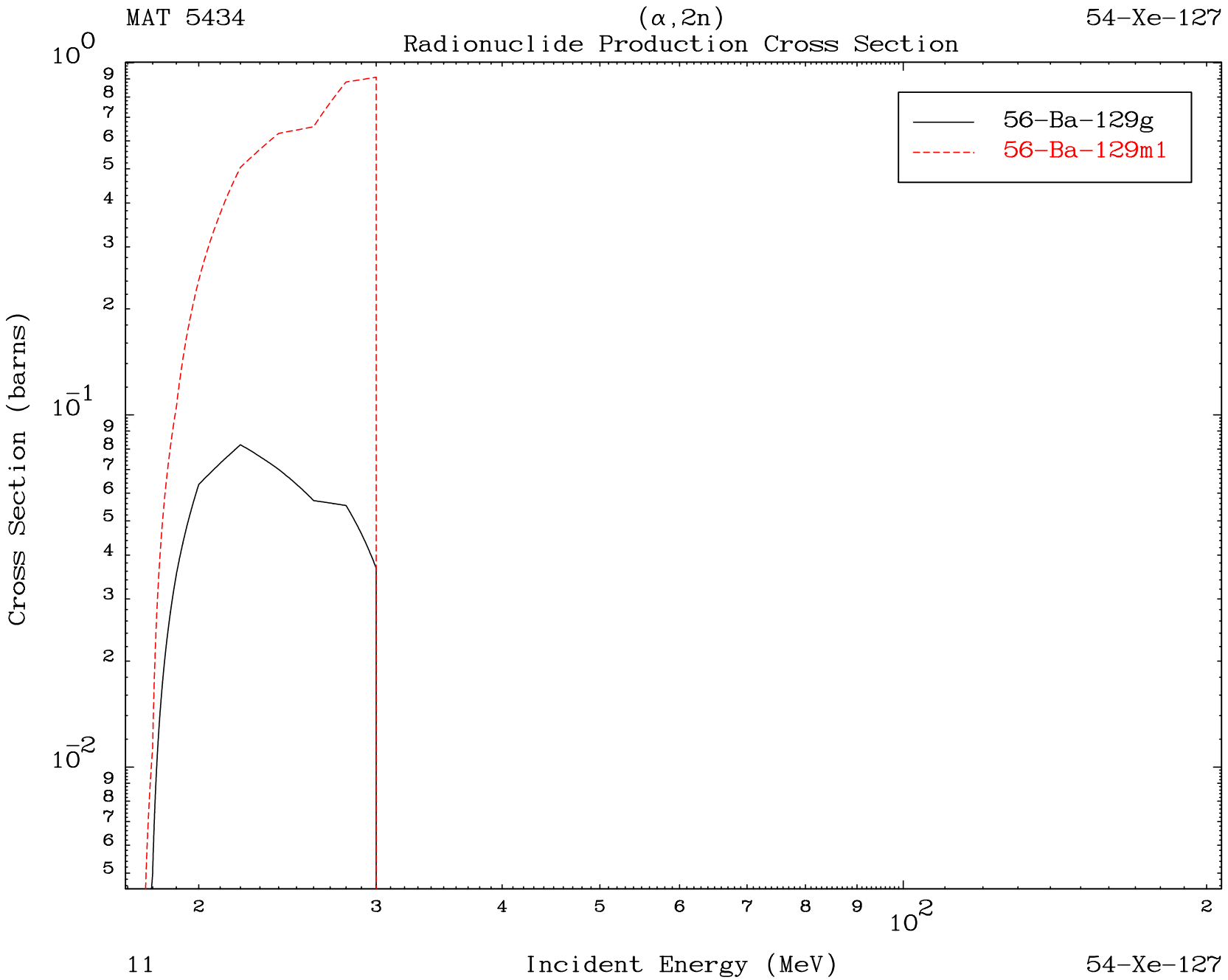

MAT 5434
(α,p) Levels
54-Xe-127
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
6
54-Xe-127

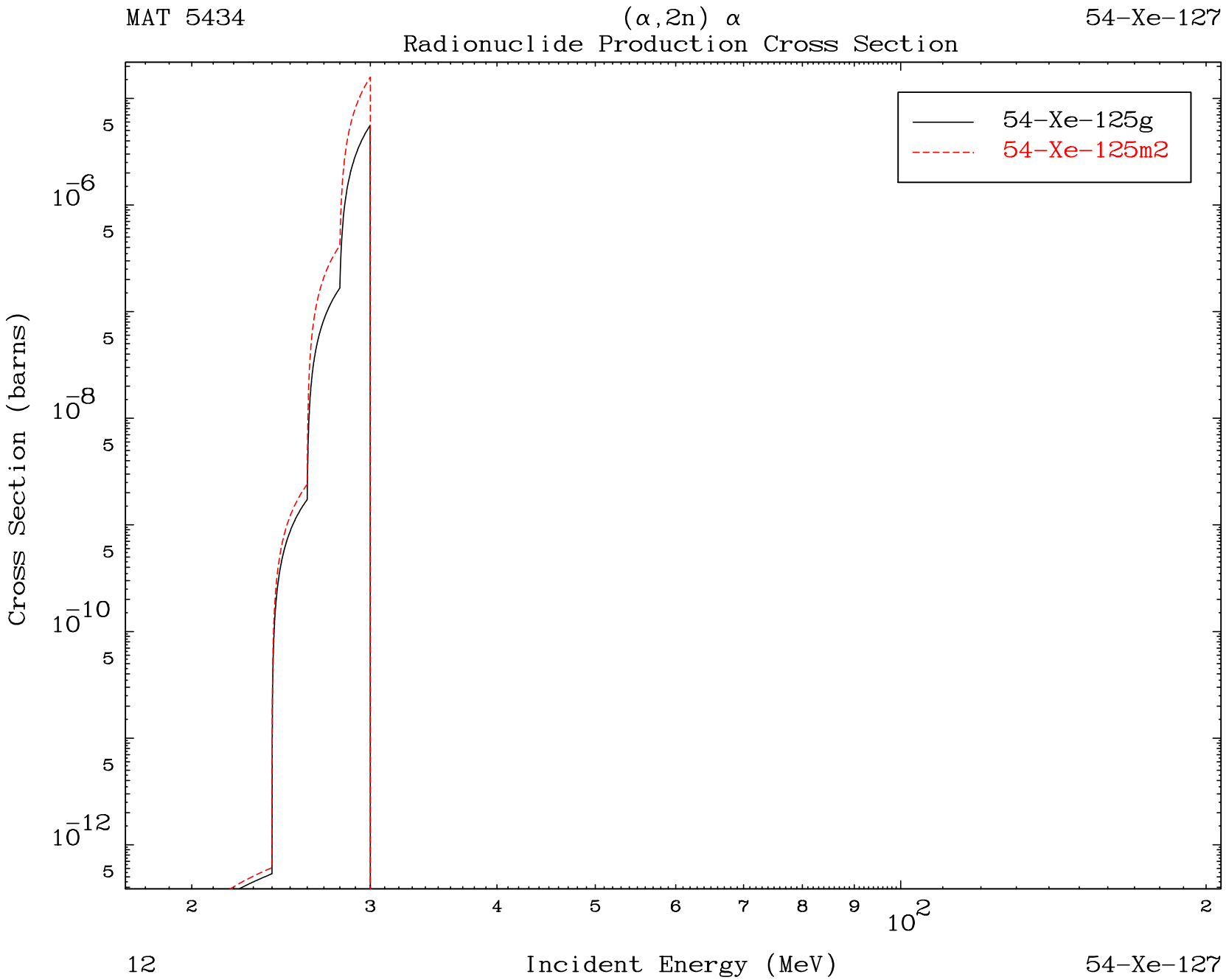

MAT 5434
(α,d) Levels
54-Xe-127
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
54-Xe-127

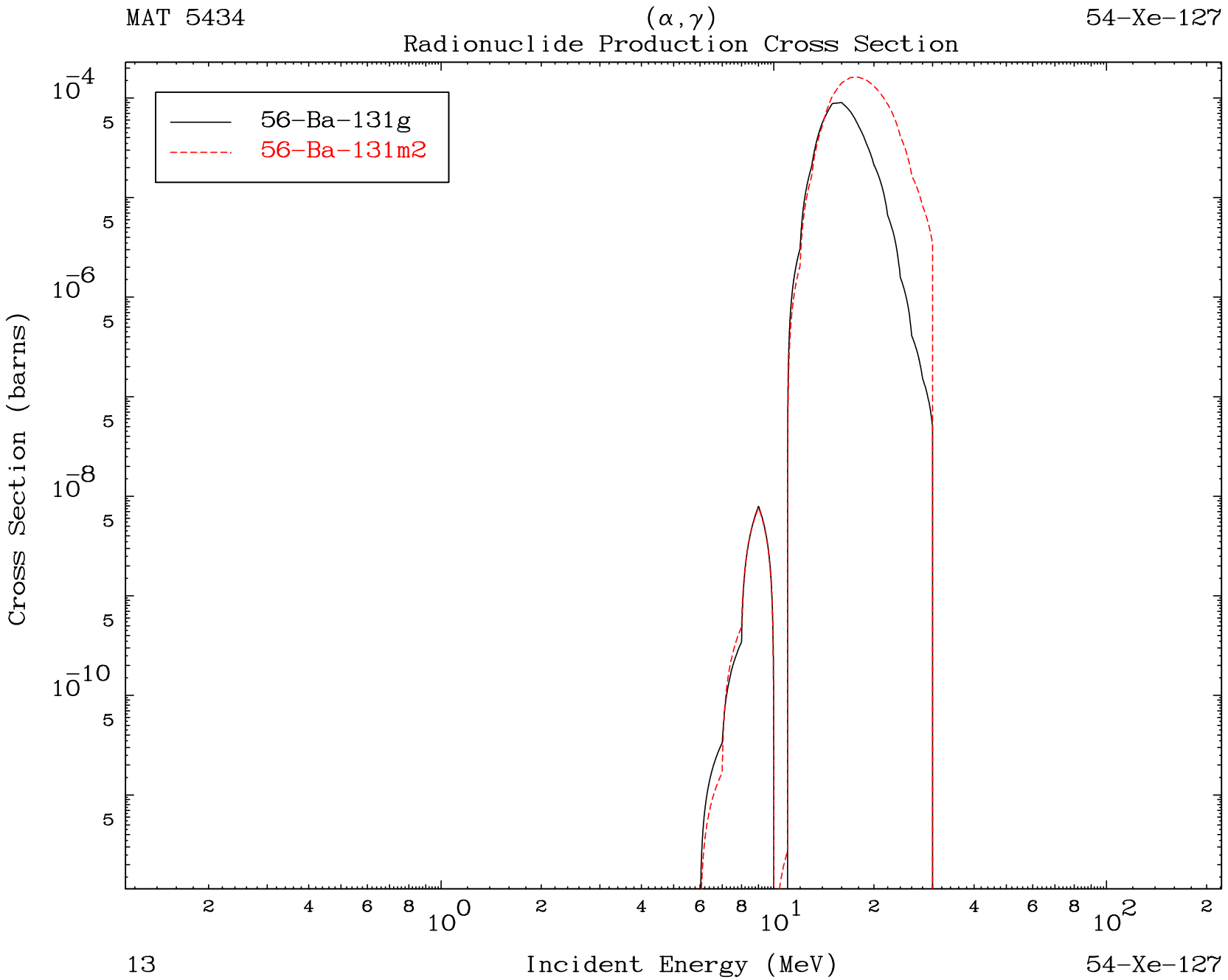

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

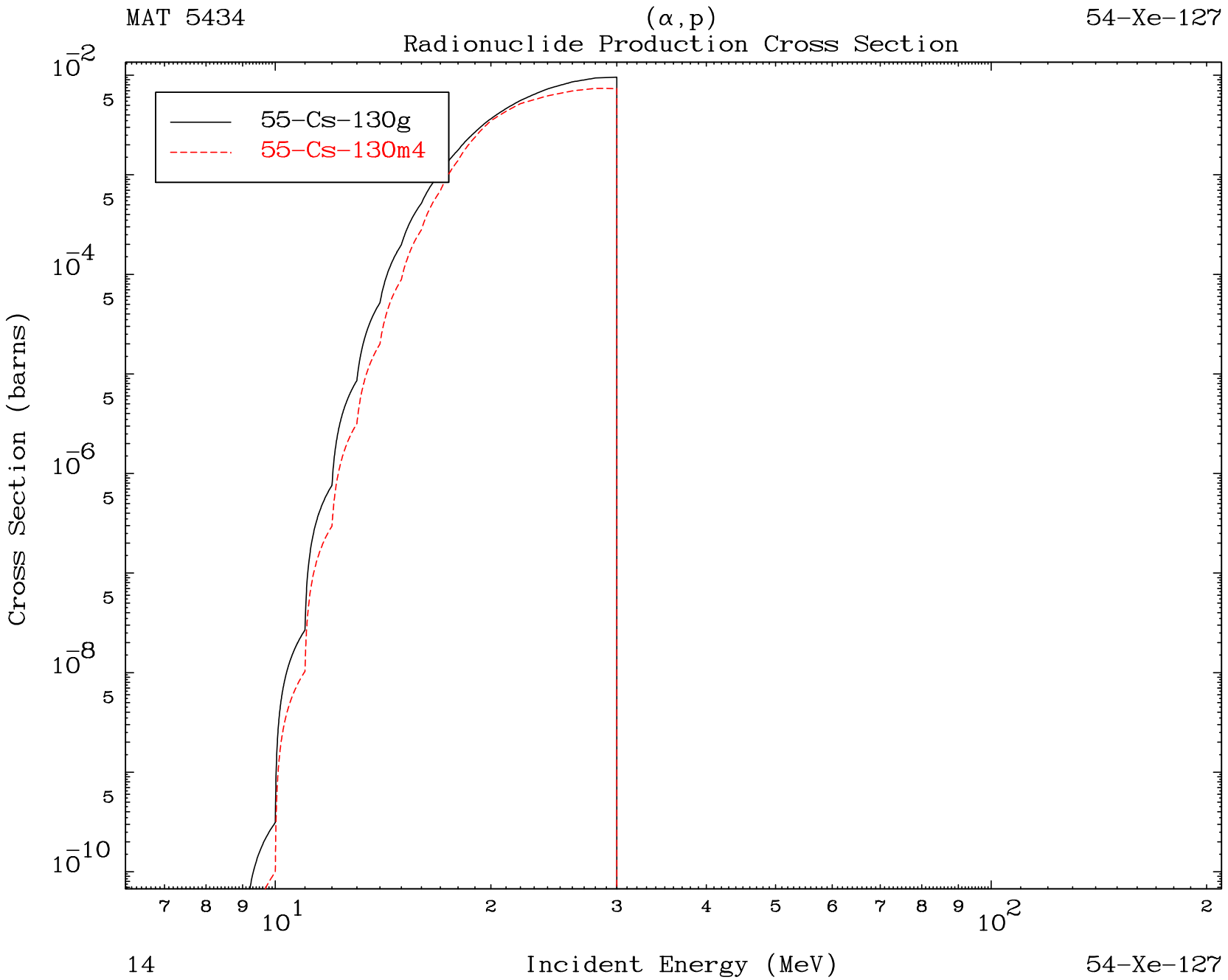

MAT 5434
(α,He3) Levels
54-Xe-127
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
54-Xe-127

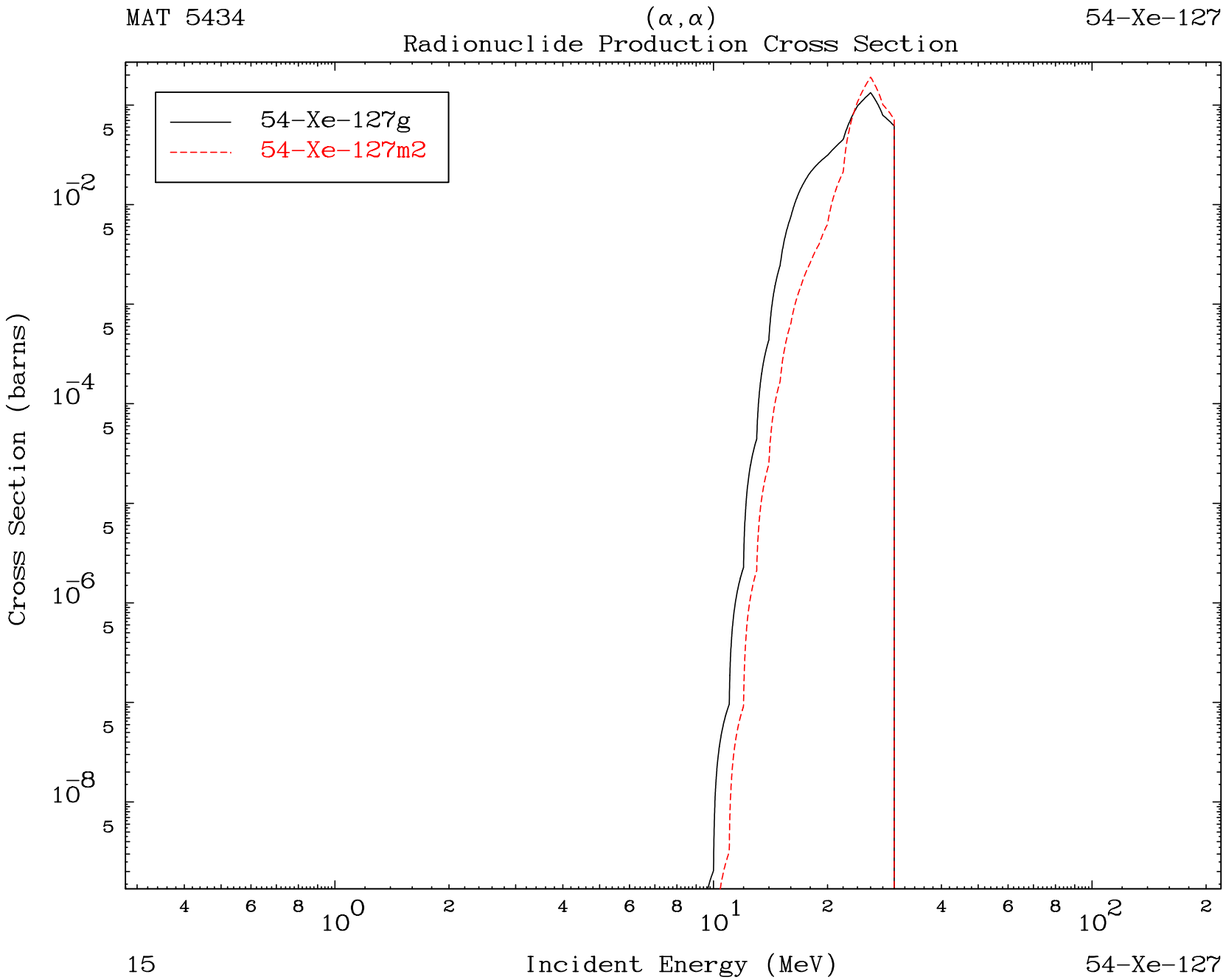

MAT 5434
(α,α) Levels
54-Xe-127
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
54-Xe-127

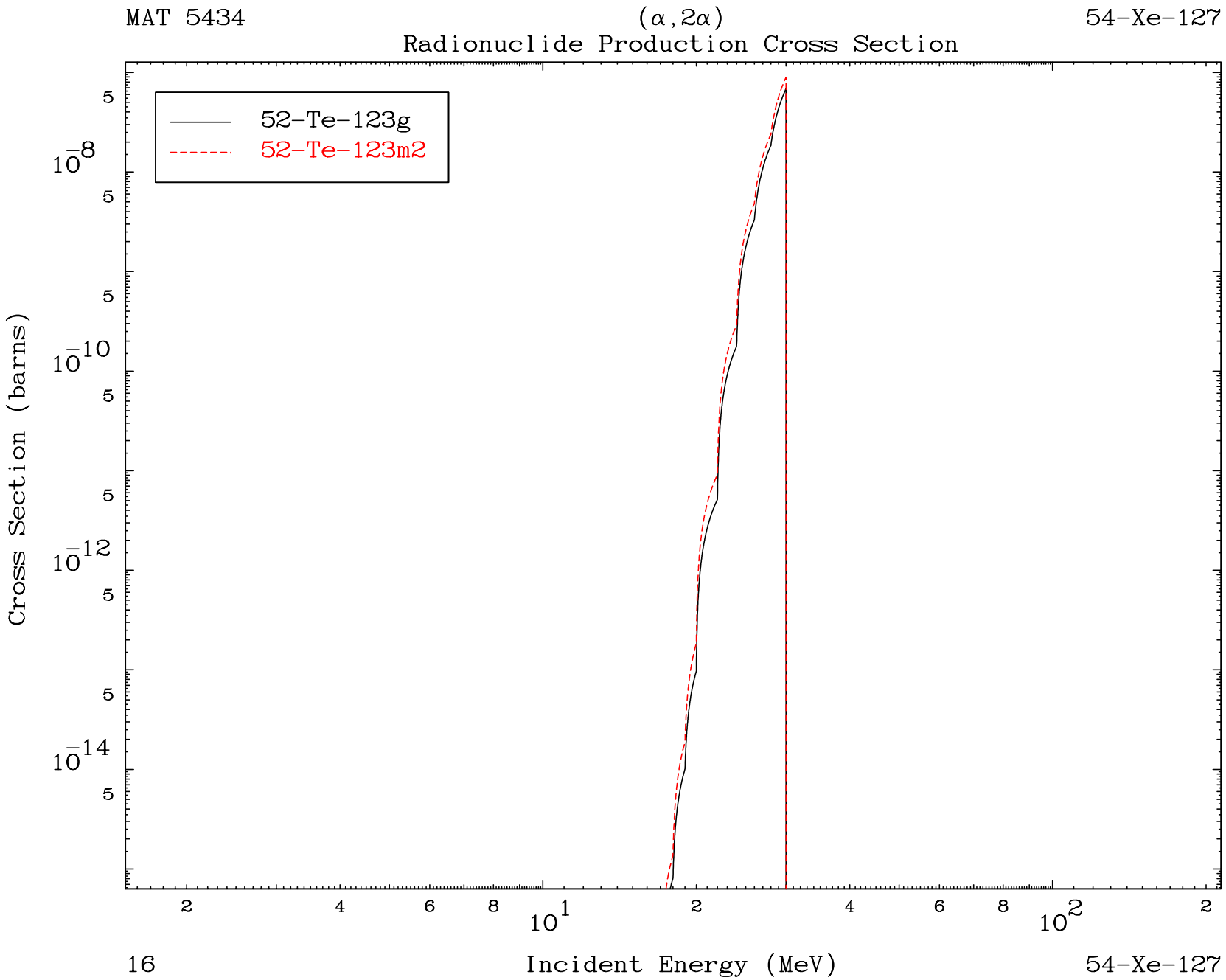

MAT 5434
(α,2n)
54-Xe-127
Radionuclide Production Cross Section
56-Ba-129g
56-Ba-129m1
Cross Section (barns)
Incident Energy (MeV)
11
54-Xe-127

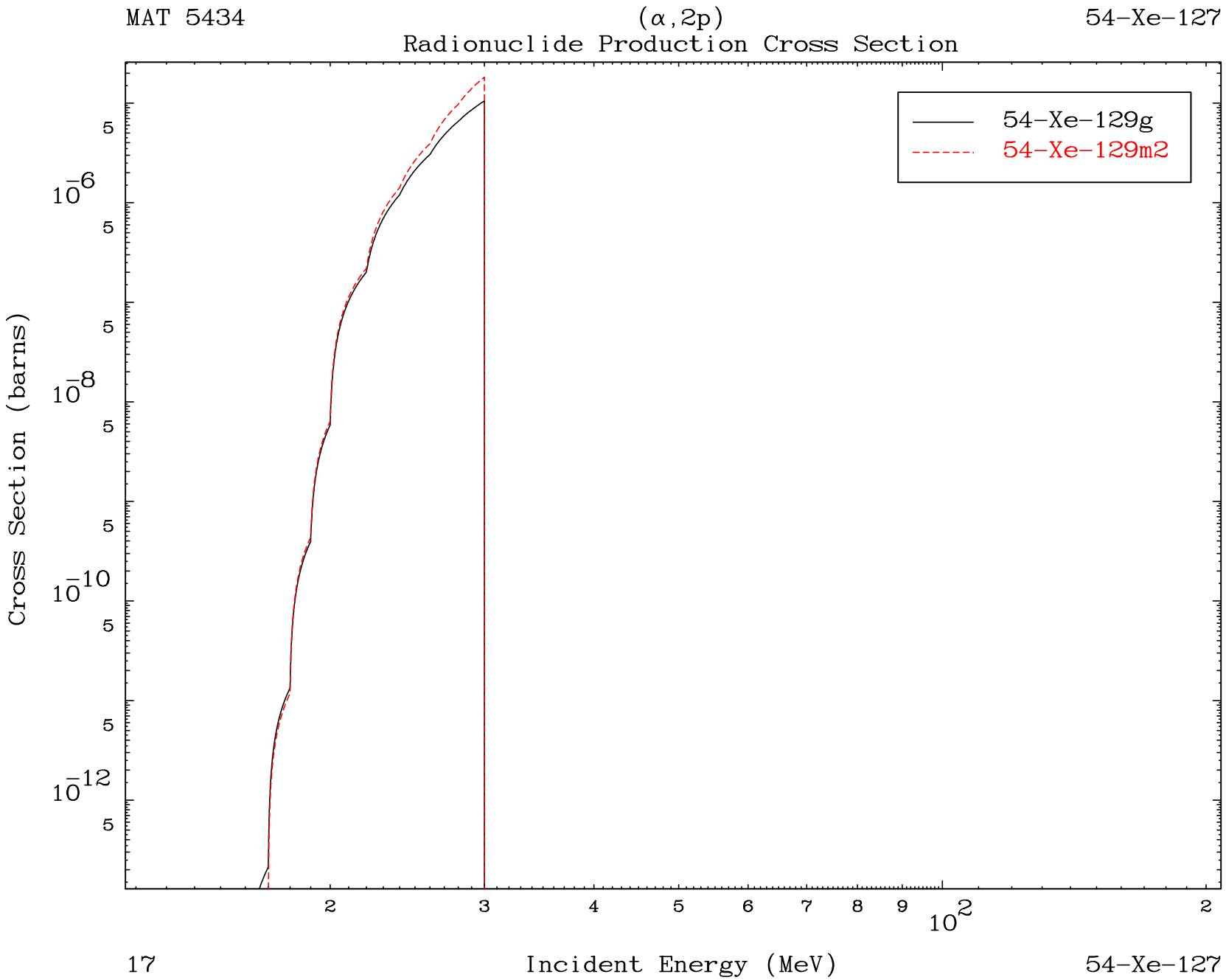

MAT 5434
(α,2n) α
54-Xe-127
Radionuclide Production Cross Section
54-Xe-125g
54-Xe-125m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
54-Xe-127


MAT 5434
(α,γ)
54-Xe-127
Radionuclide Production Cross Section
56-Ba-131g
56-Ba-131m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
13
54-Xe-127


MAT 5434
(α,p)
54-Xe-127
Radionuclide Production Cross Section
55-Cs-130g
55-Cs-130m4
Cross Section (barns)
Incident Energy (MeV)
14
54-Xe-127


MAT 5434
(α,α)
54-Xe-127
Radionuclide Production Cross Section
54-Xe-127g
54-Xe-127m2
Cross Section (barns)
Incident Energy (MeV)
15
54-Xe-127


MAT 5434
(α,2α)
54-Xe-127
Radionuclide Production Cross Section
52-Te-123g
52-Te-123m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
4
6
8
10^1
10^2
16
Incident Energy (MeV)
54-Xe-127


MAT 5434
(α,2p)
54-Xe-127
Radionuclide Production Cross Section
54-Xe-129g
54-Xe-129m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
54-Xe-127