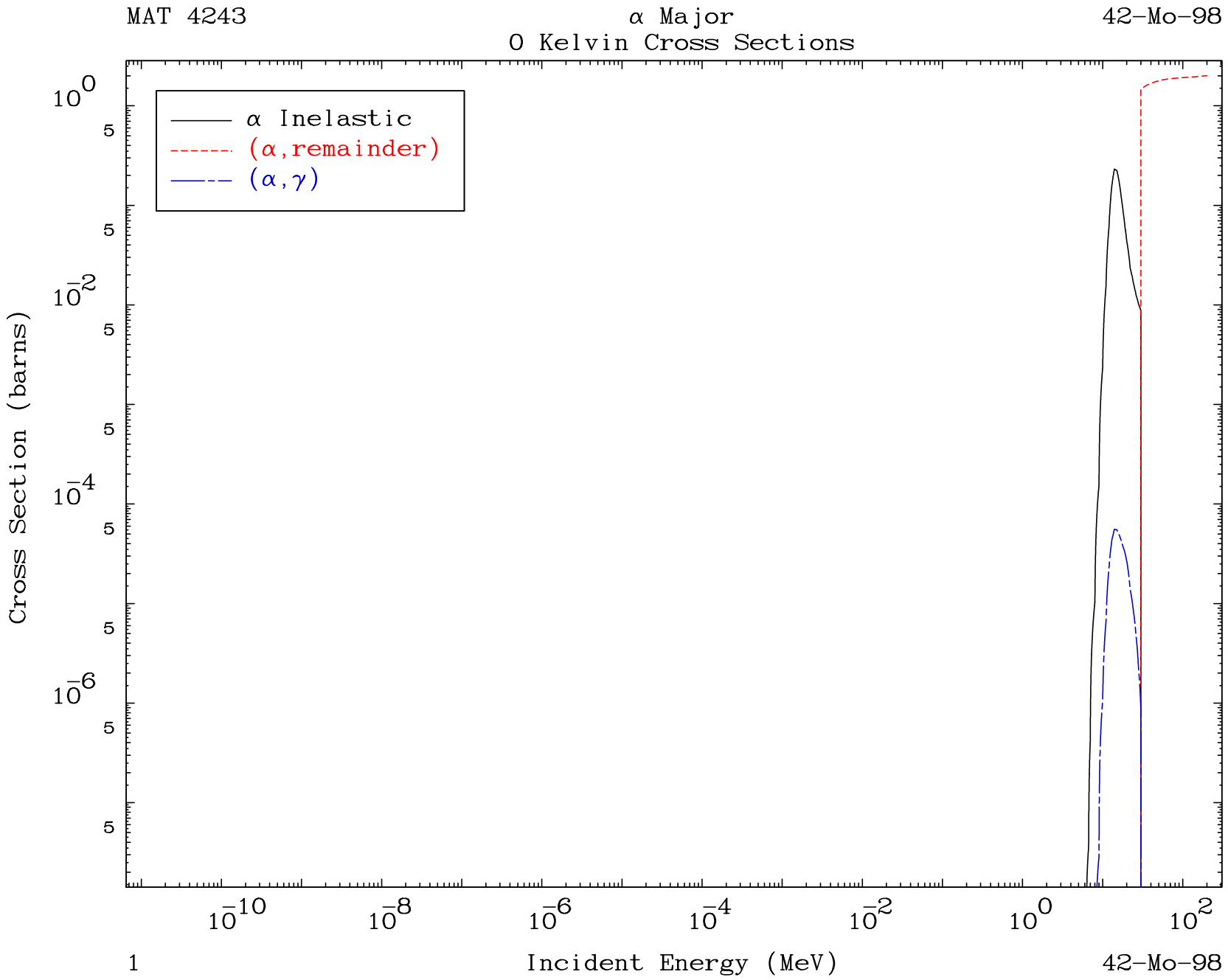
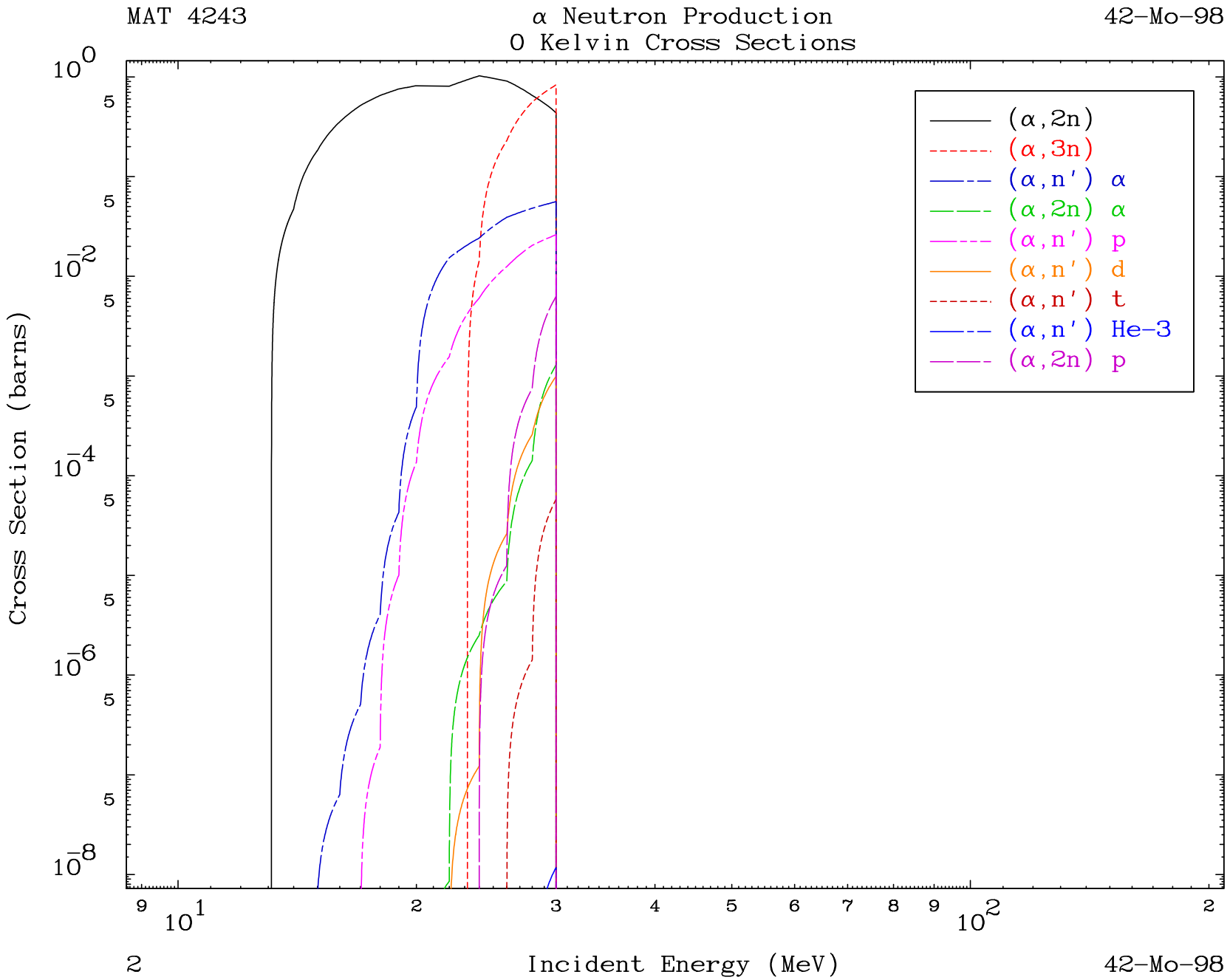
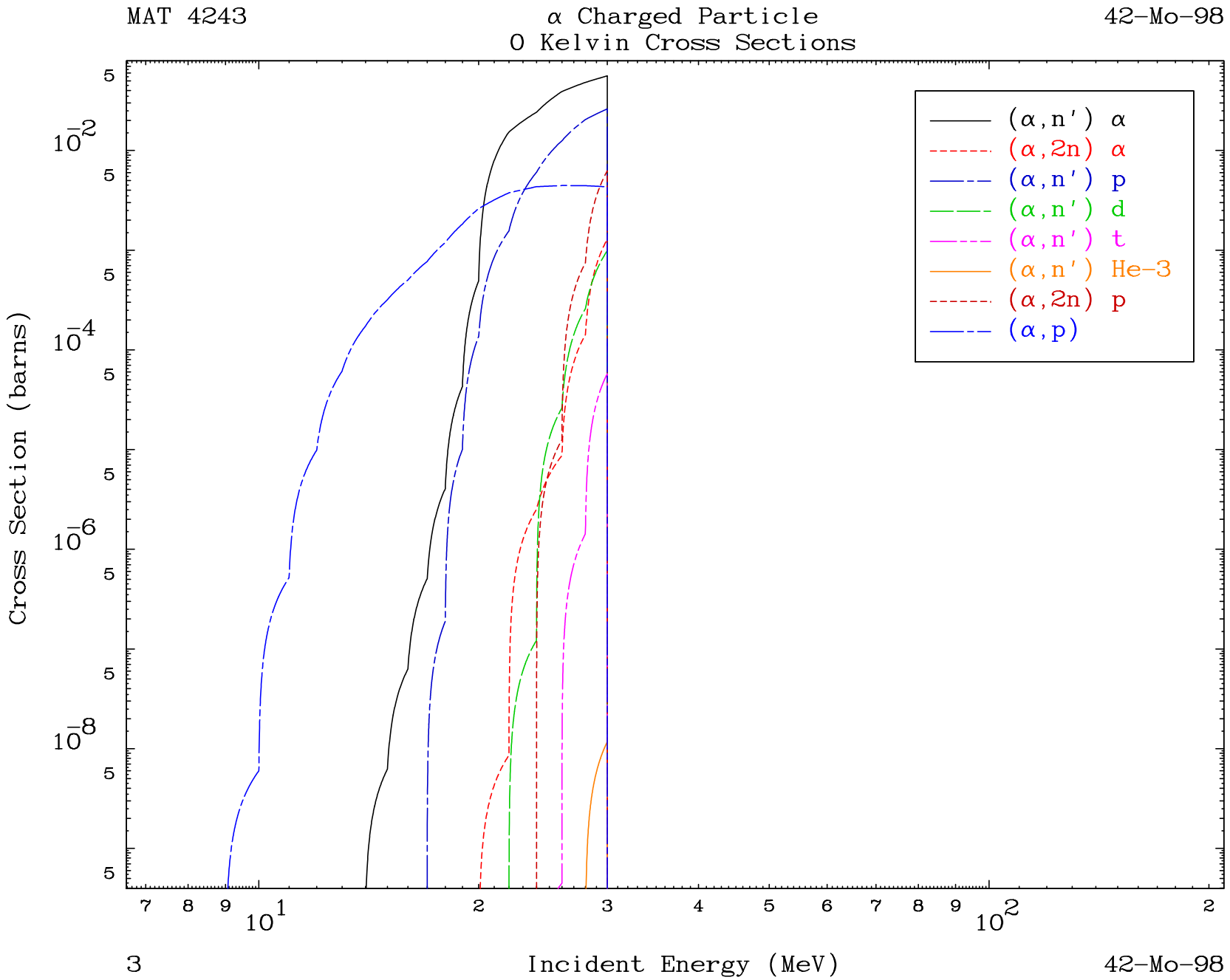
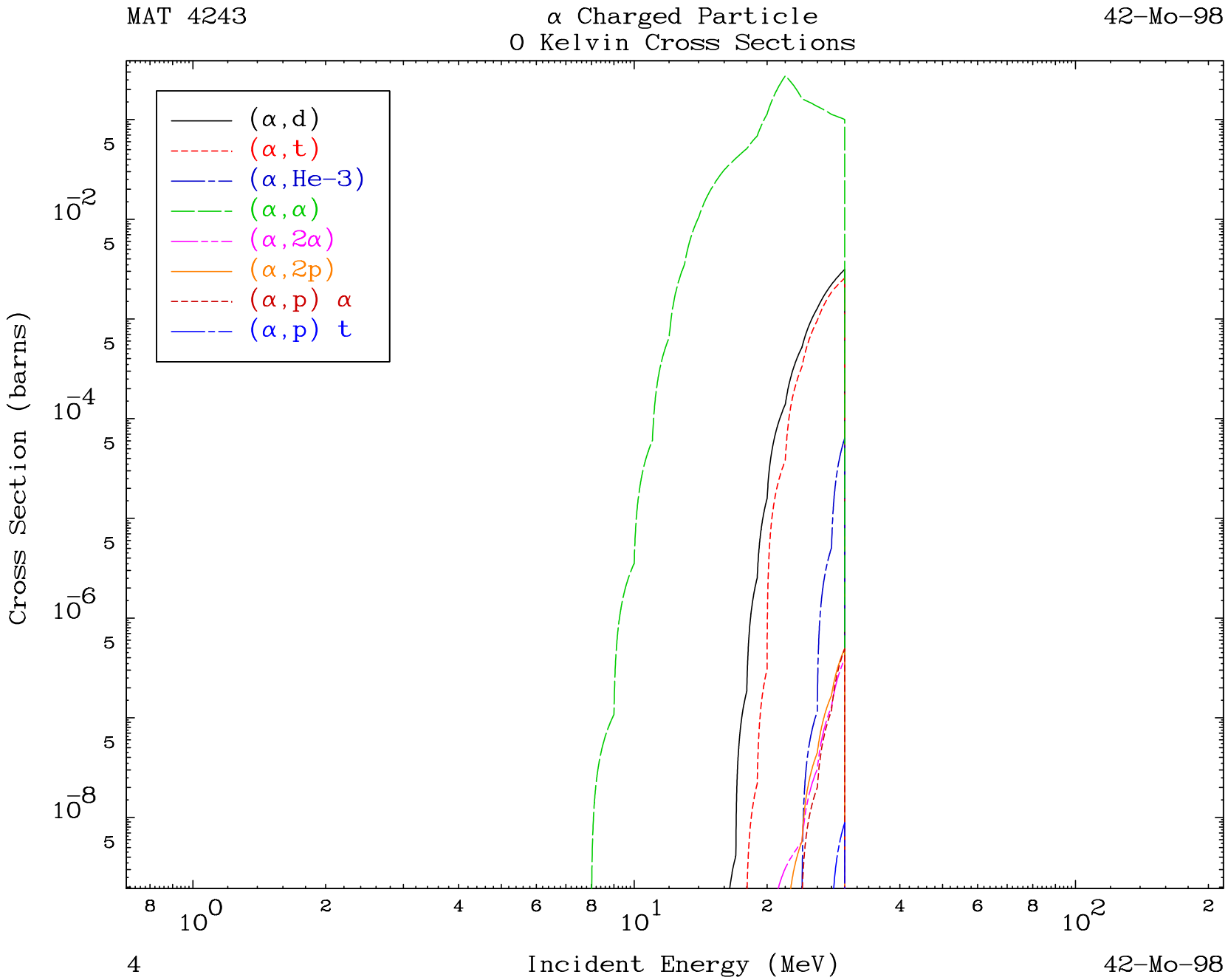
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

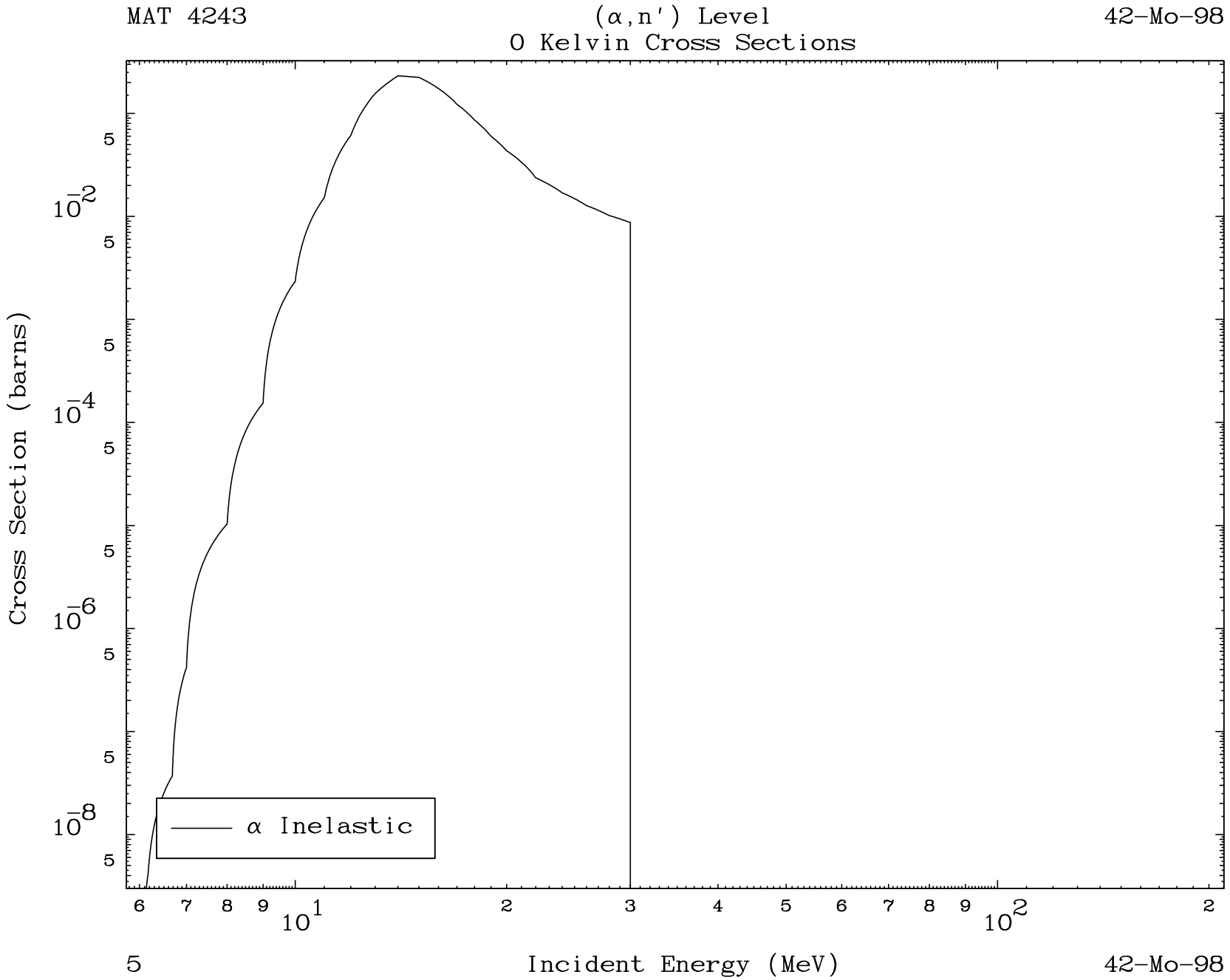
Press Mouse Button to Start

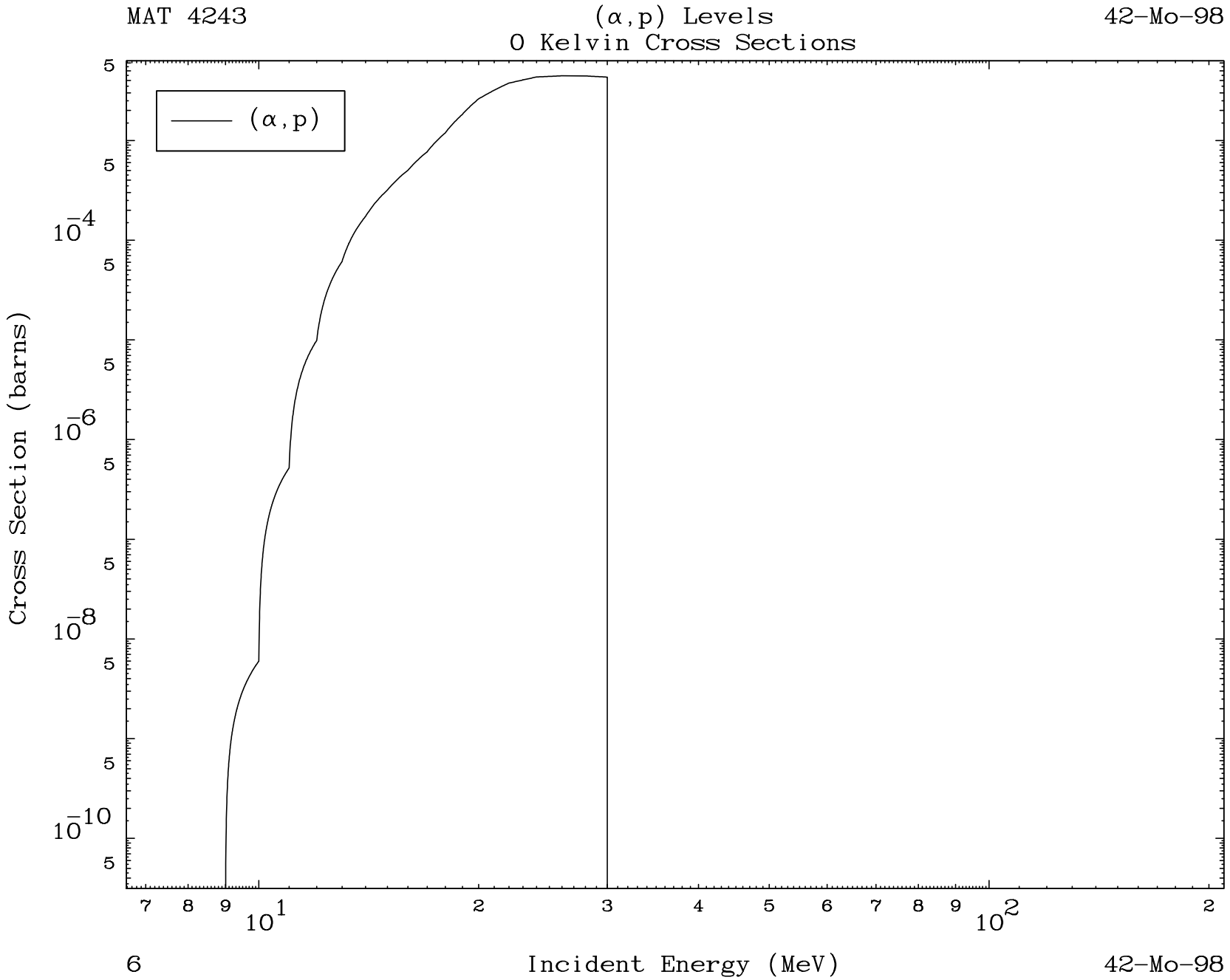

MAT 4243
α Major
42-Mo-98
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
42-Mo-98

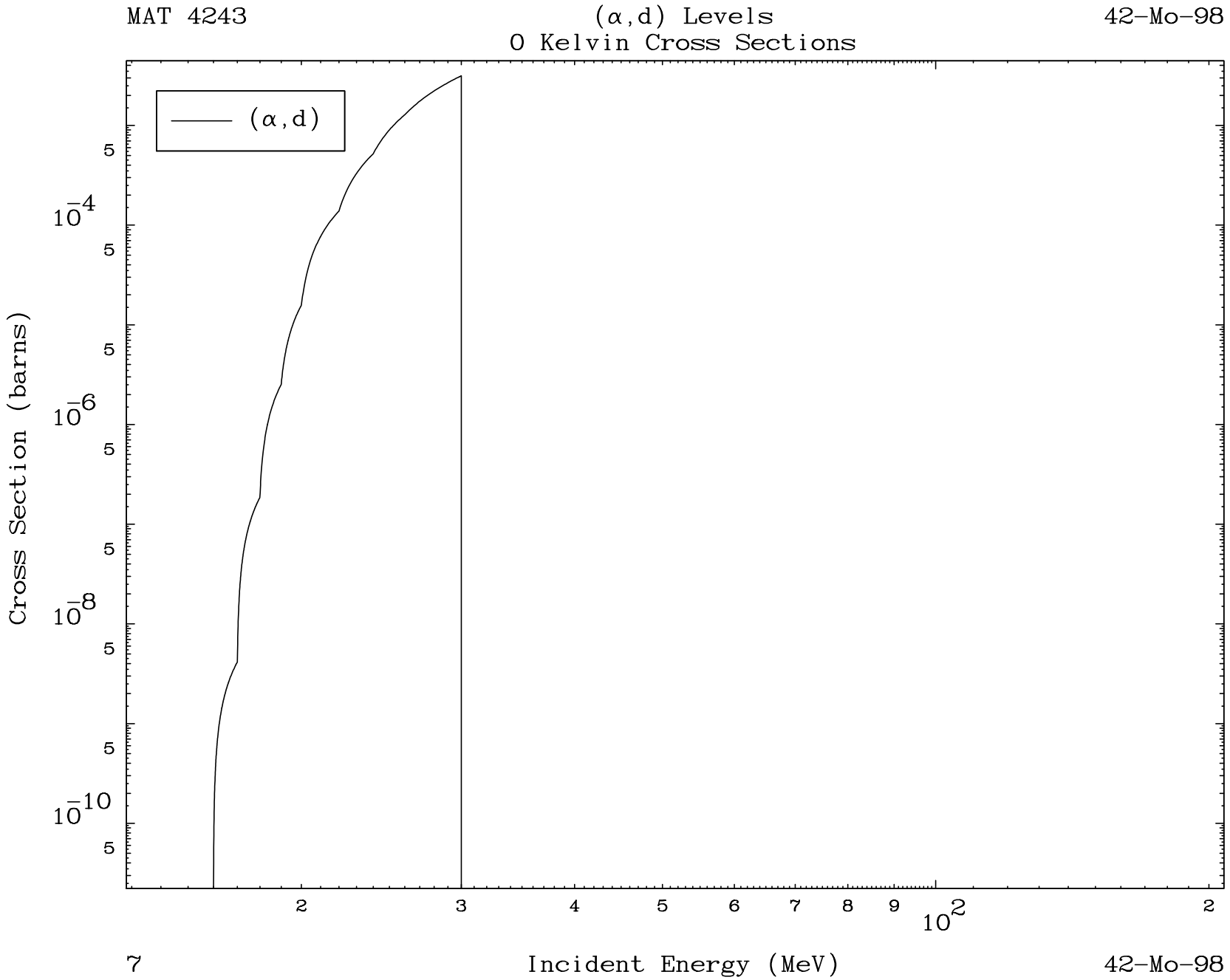

MAT 4243
α Neutron Production
0 Kelvin Cross Sections
42-Mo-98
Cross Section (barns)
Incident Energy (MeV)
42-Mo-98
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p

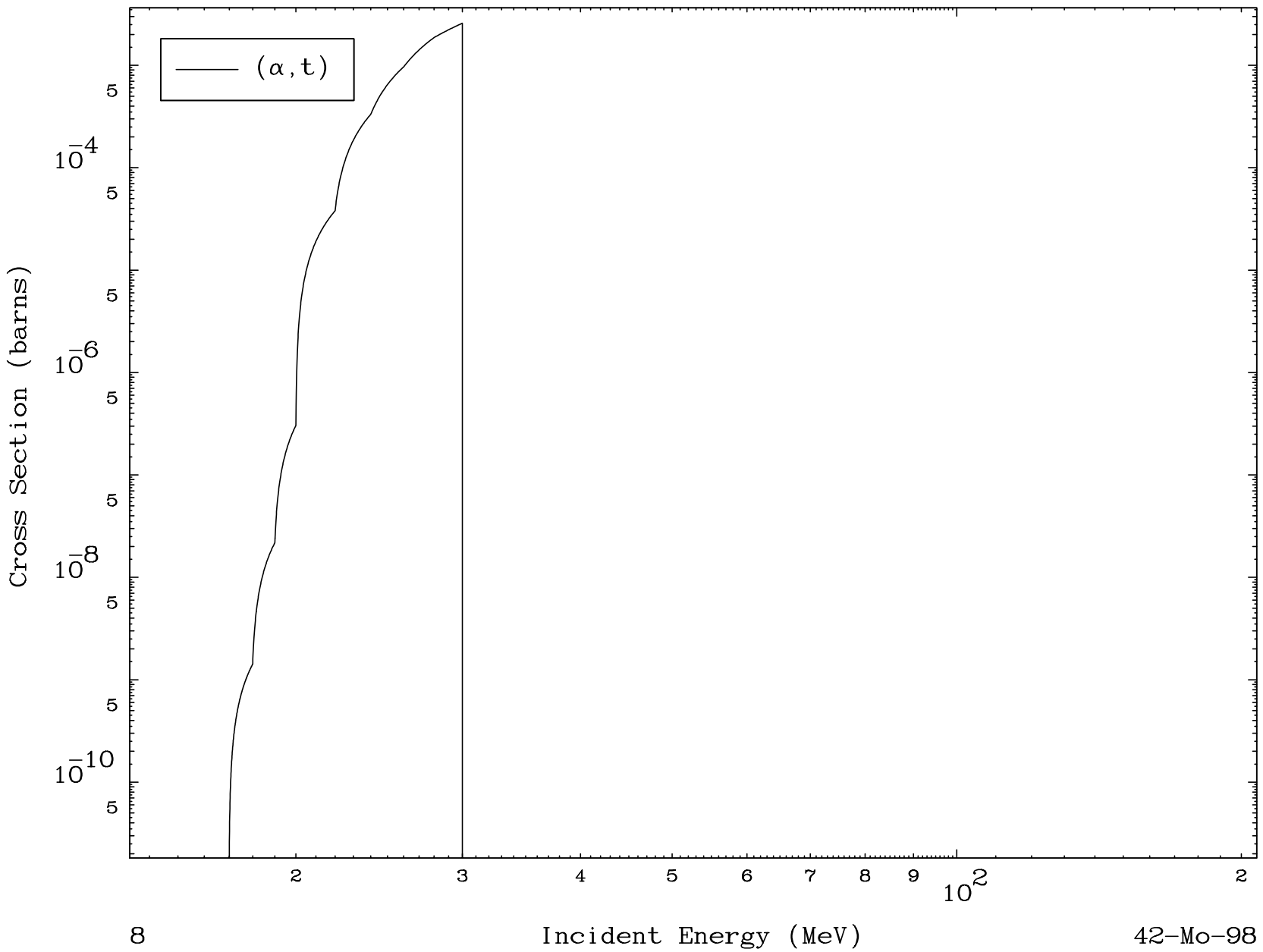

MAT 4243
α Charged Particle
0 Kelvin Cross Sections
42-Mo-98
Cross Section (barns)
Incident Energy (MeV)
3
42-Mo-98
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p
(α,p)

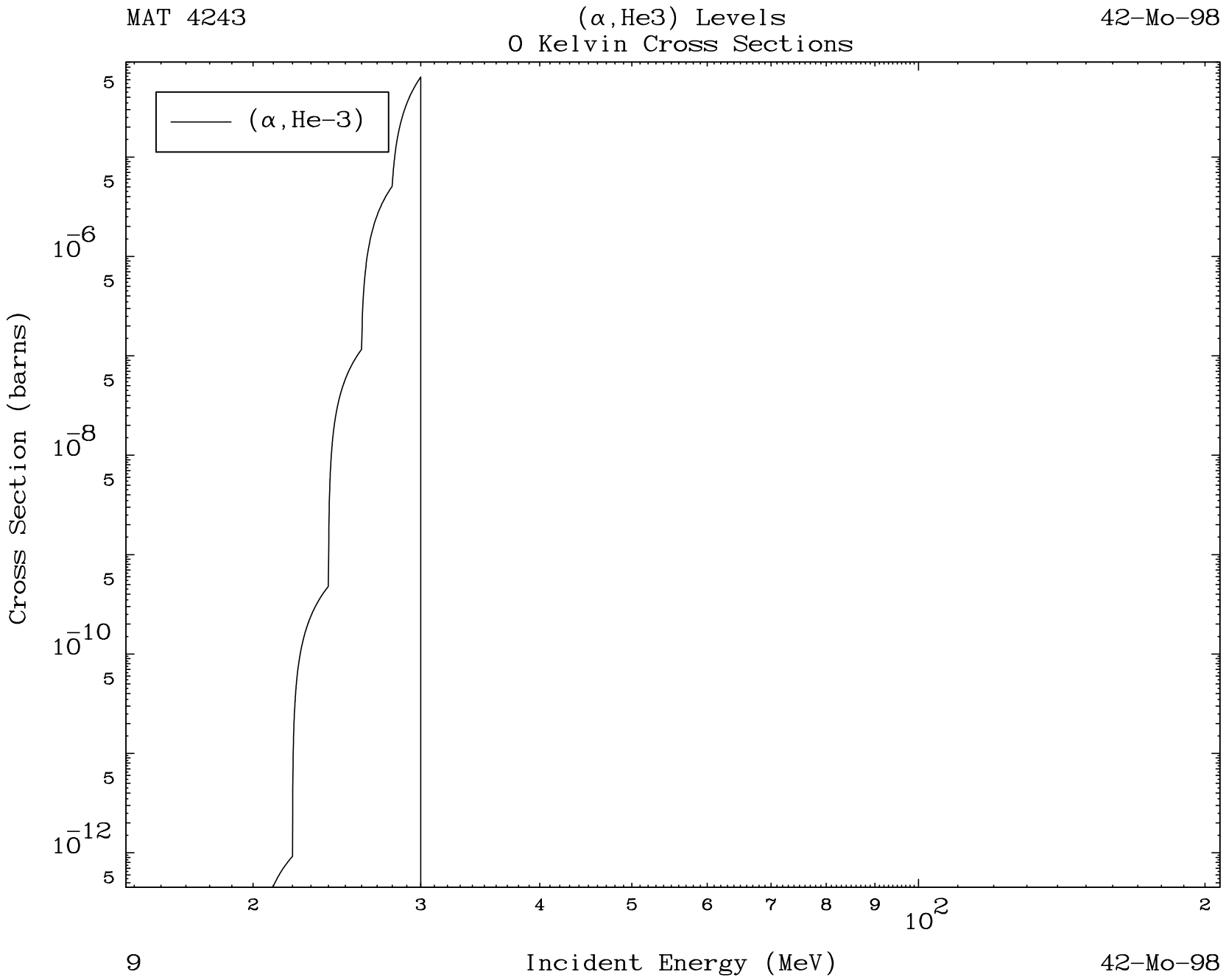

MAT 4243
α Charged Particle
0 Kelvin Cross Sections
42-Mo-98
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) t
Cross Section (barns)
Incident Energy (MeV)
4
42-Mo-98

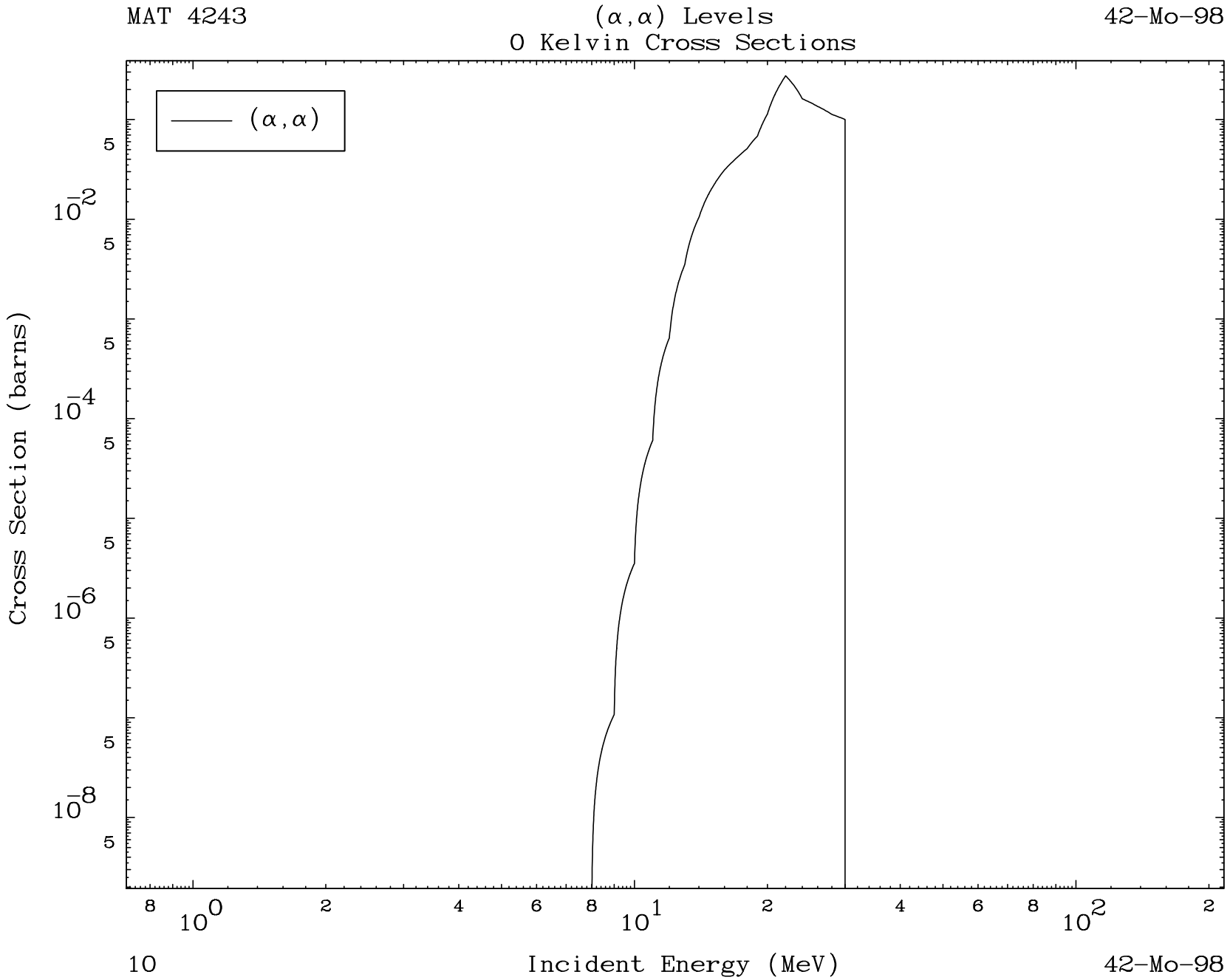

MAT 4243
(α,n') Level
42-Mo-98
0 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
α Inelastic
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
5
Incident Energy (MeV)
42-Mo-98

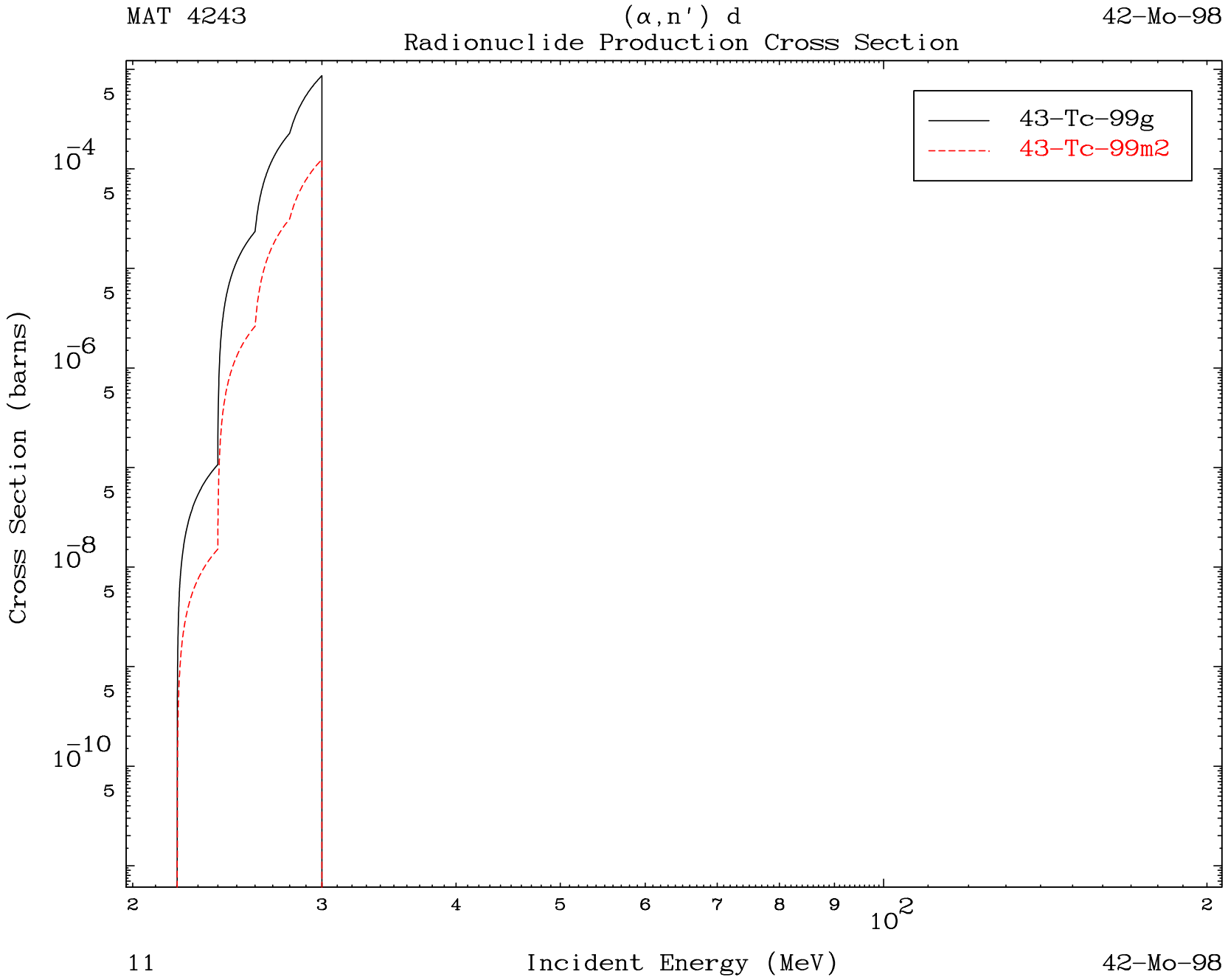

MAT 4243
(α,p) Levels
42-Mo-98
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
42-Mo-98

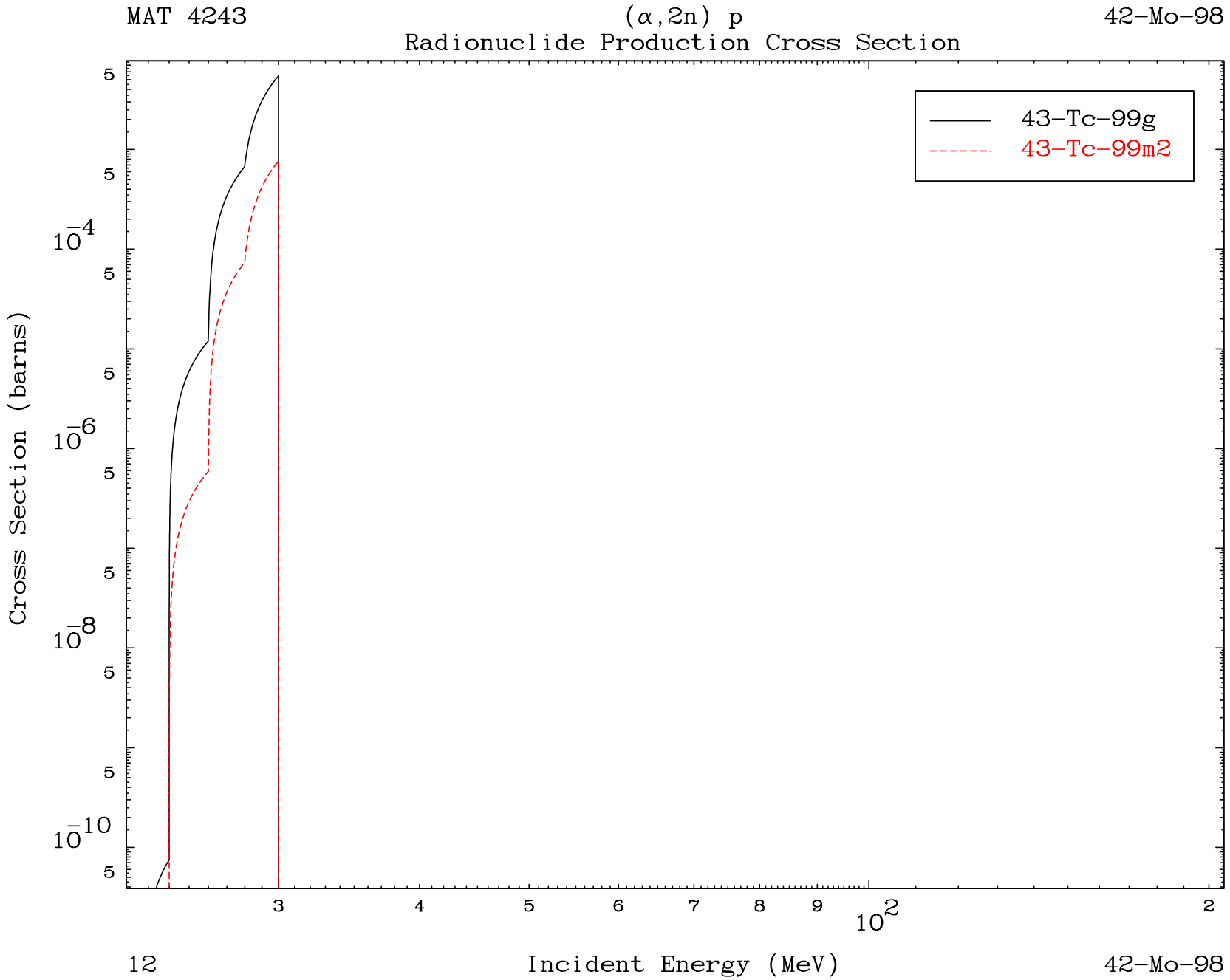

MAT 4243
(α,d) Levels
42-Mo-98
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
2
3
4
5
6
7
8
9
10 2
7
42-Mo-98

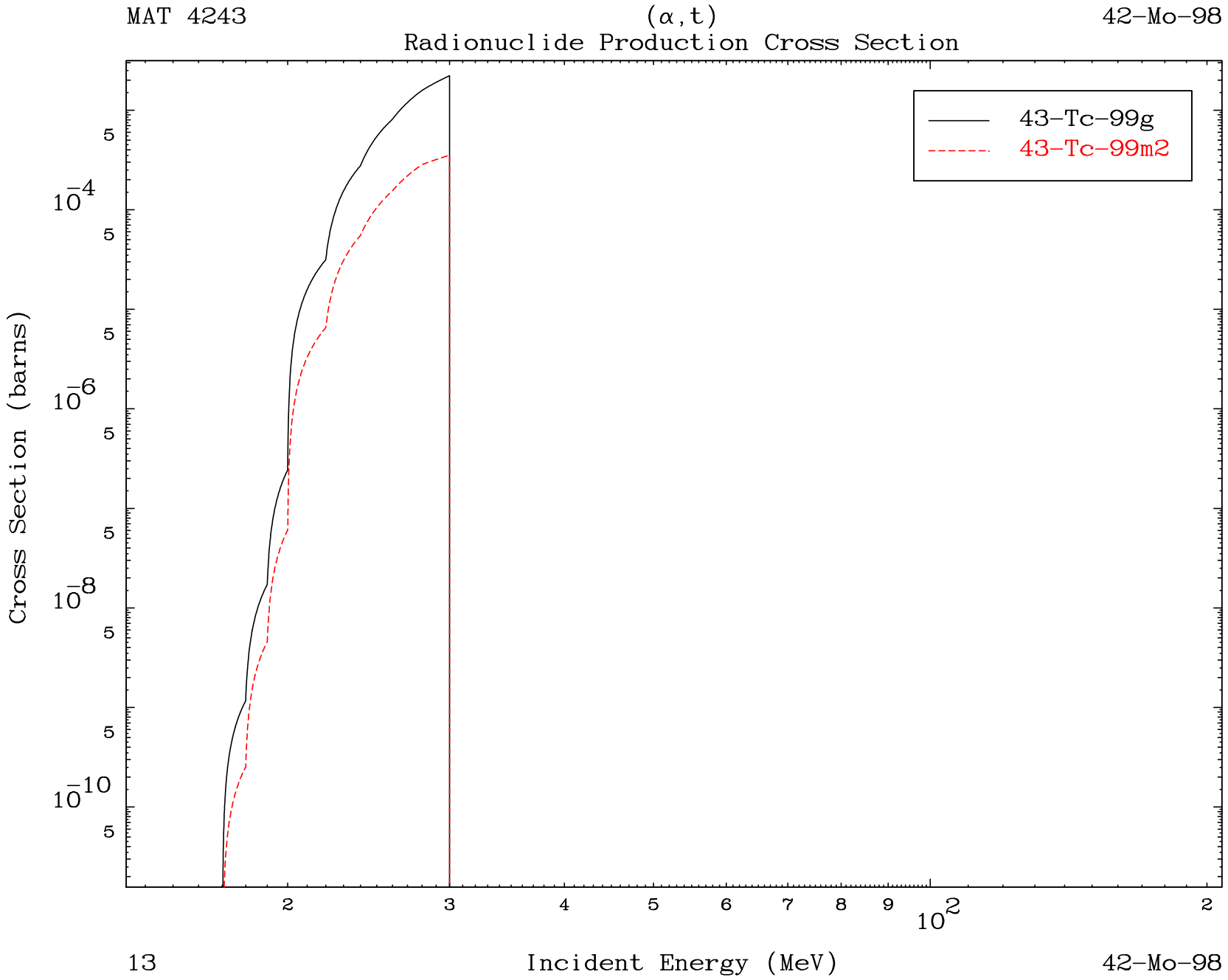

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

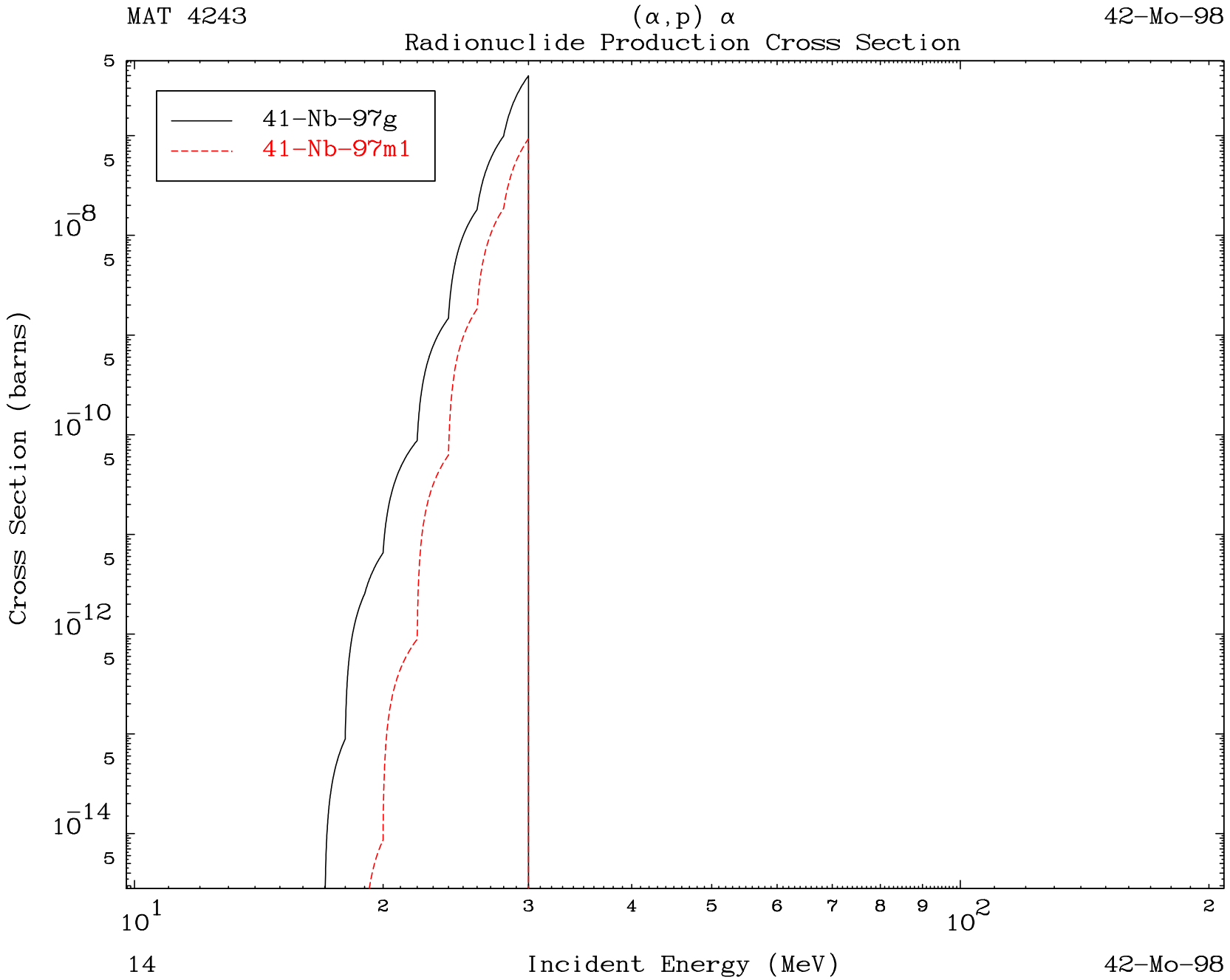

MAT 4243
(α,He3) Levels
42-Mo-98
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
42-Mo-98


MAT 4243
(α,α) Levels
42-Mo-98
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10^0
10^1
10^2
2
4
6
8
Incident Energy (MeV)
42-Mo-98


MAT 4243
(α,n') d
42-Mo-98
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
42-Mo-98


MAT 4243
(α,2n) p
42-Mo-98
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10^2
12
42-Mo-98


MAT 4243
(α,t)
42-Mo-98
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
42-Mo-98


MAT 4243
(α,p) α
42-Mo-98
Radionuclide Production Cross Section
41-Nb-97g
41-Nb-97m1
Cross Section (barns)
Incident Energy (MeV)
14
42-Mo-98