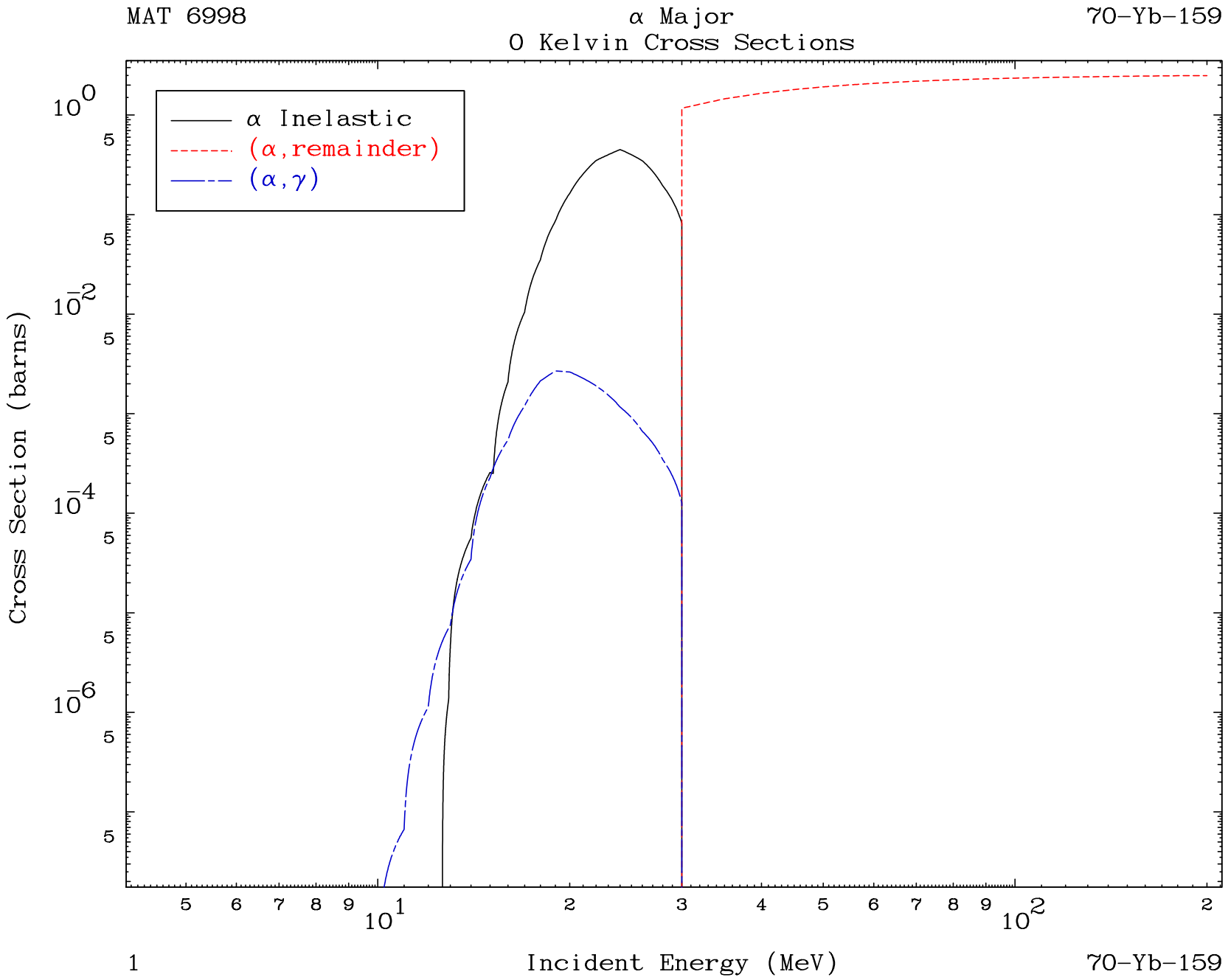
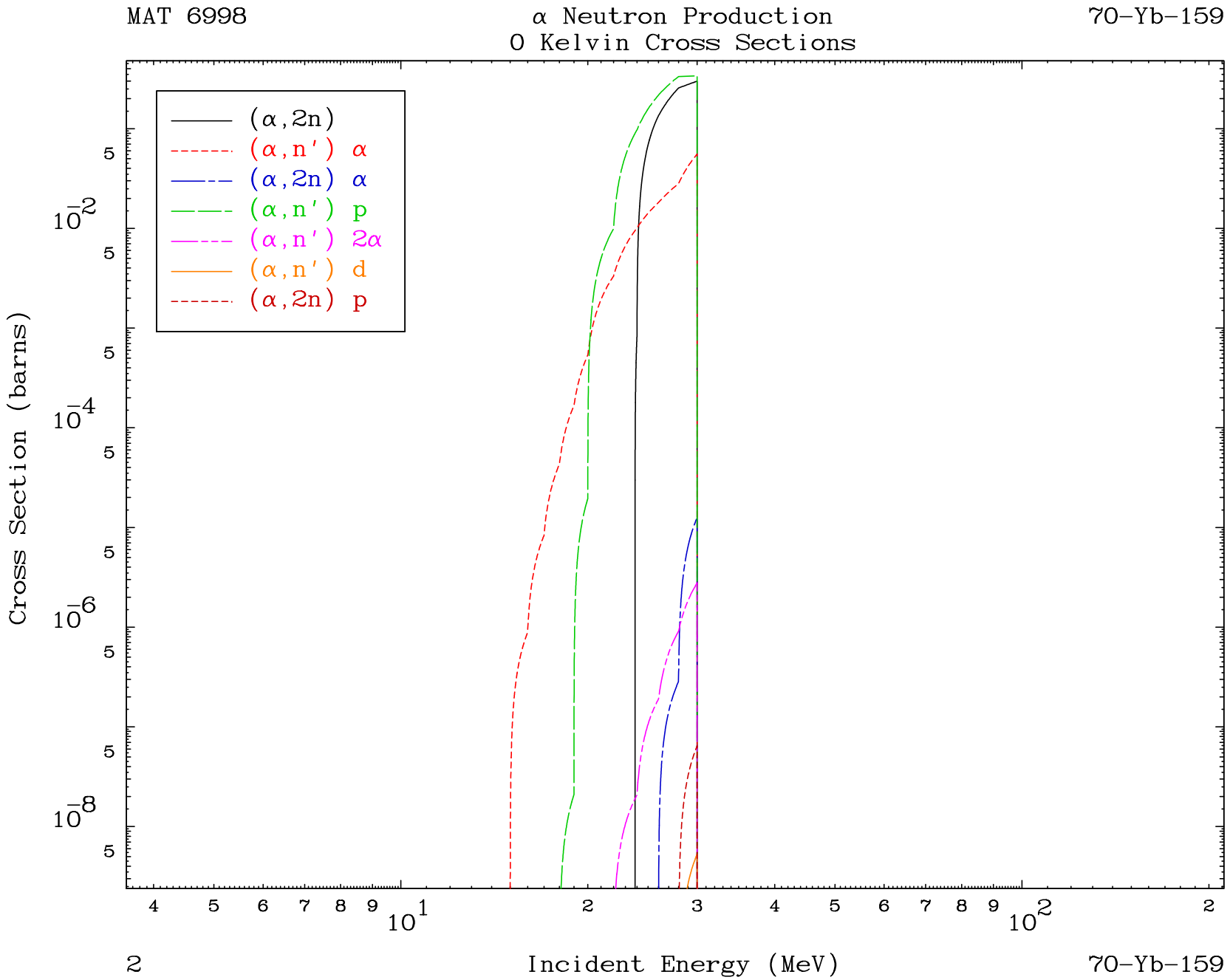
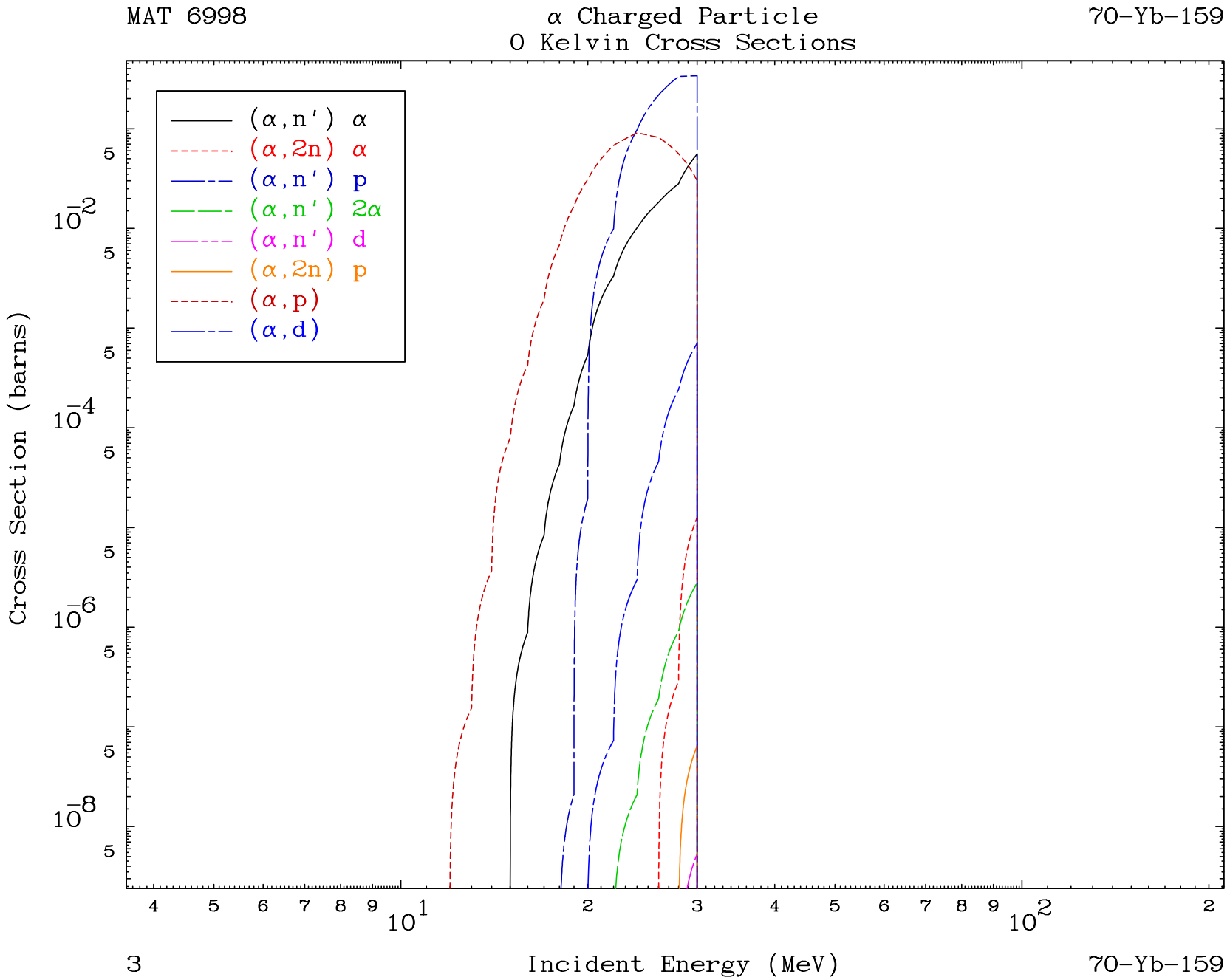
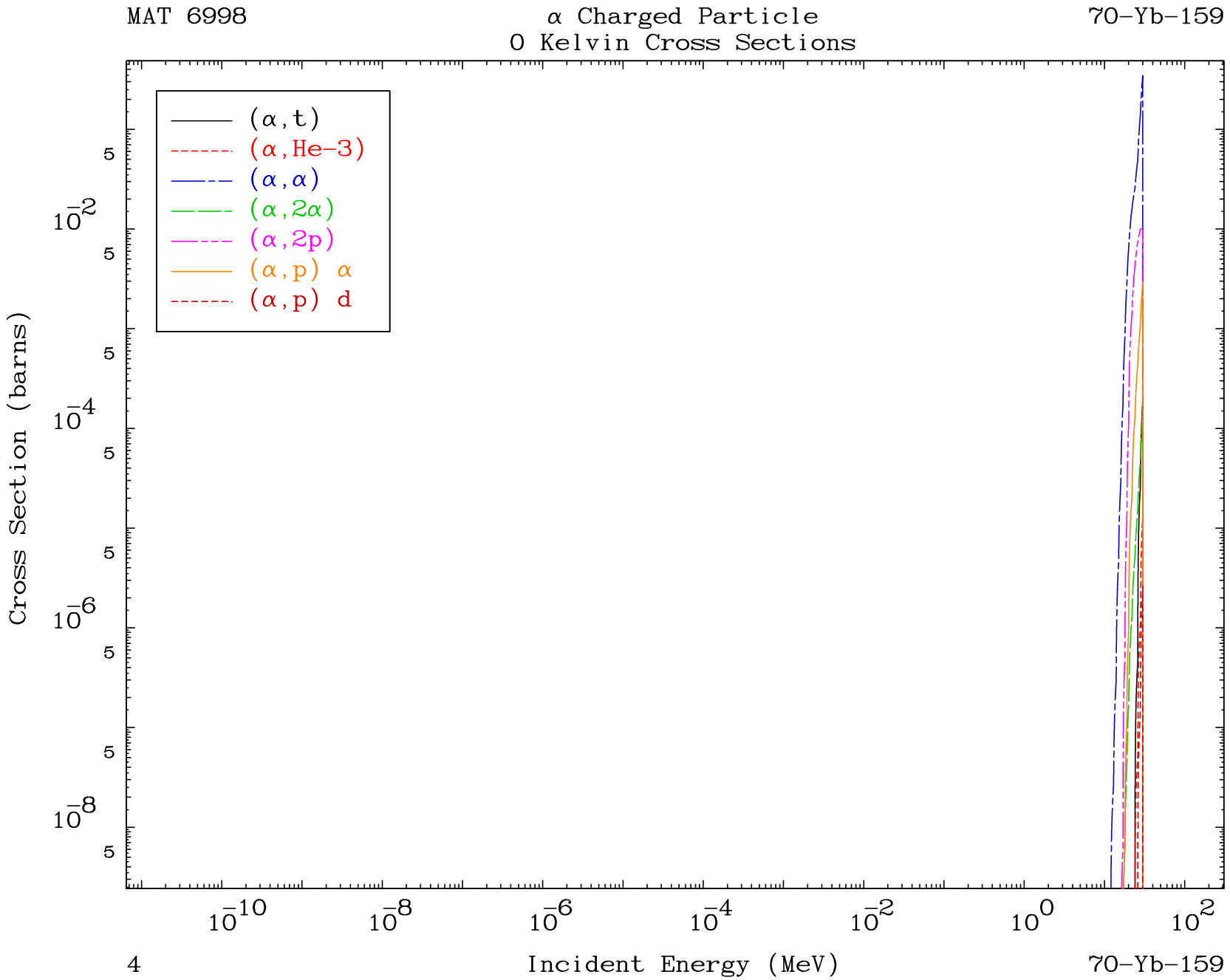
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

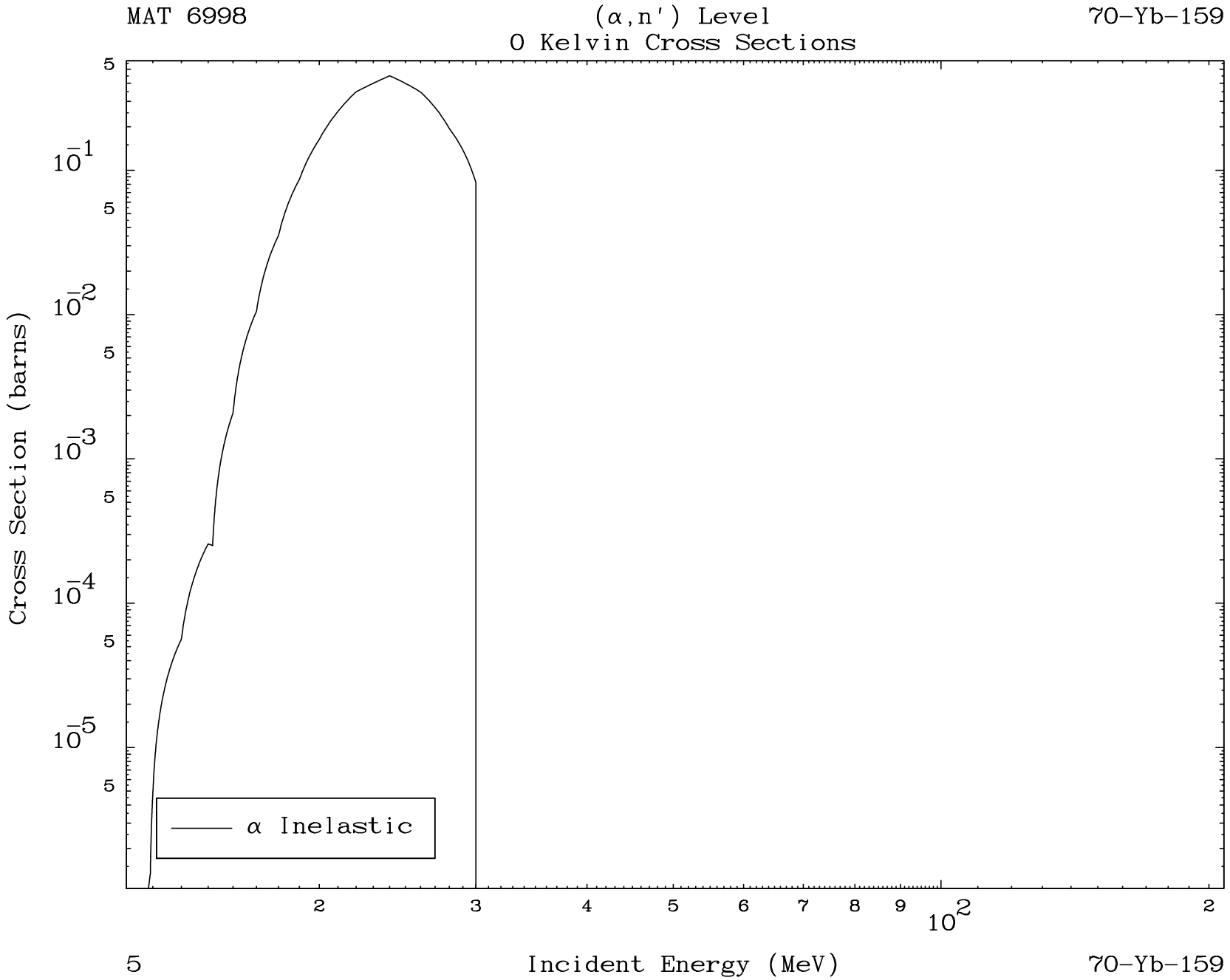
Press Mouse Button to Start

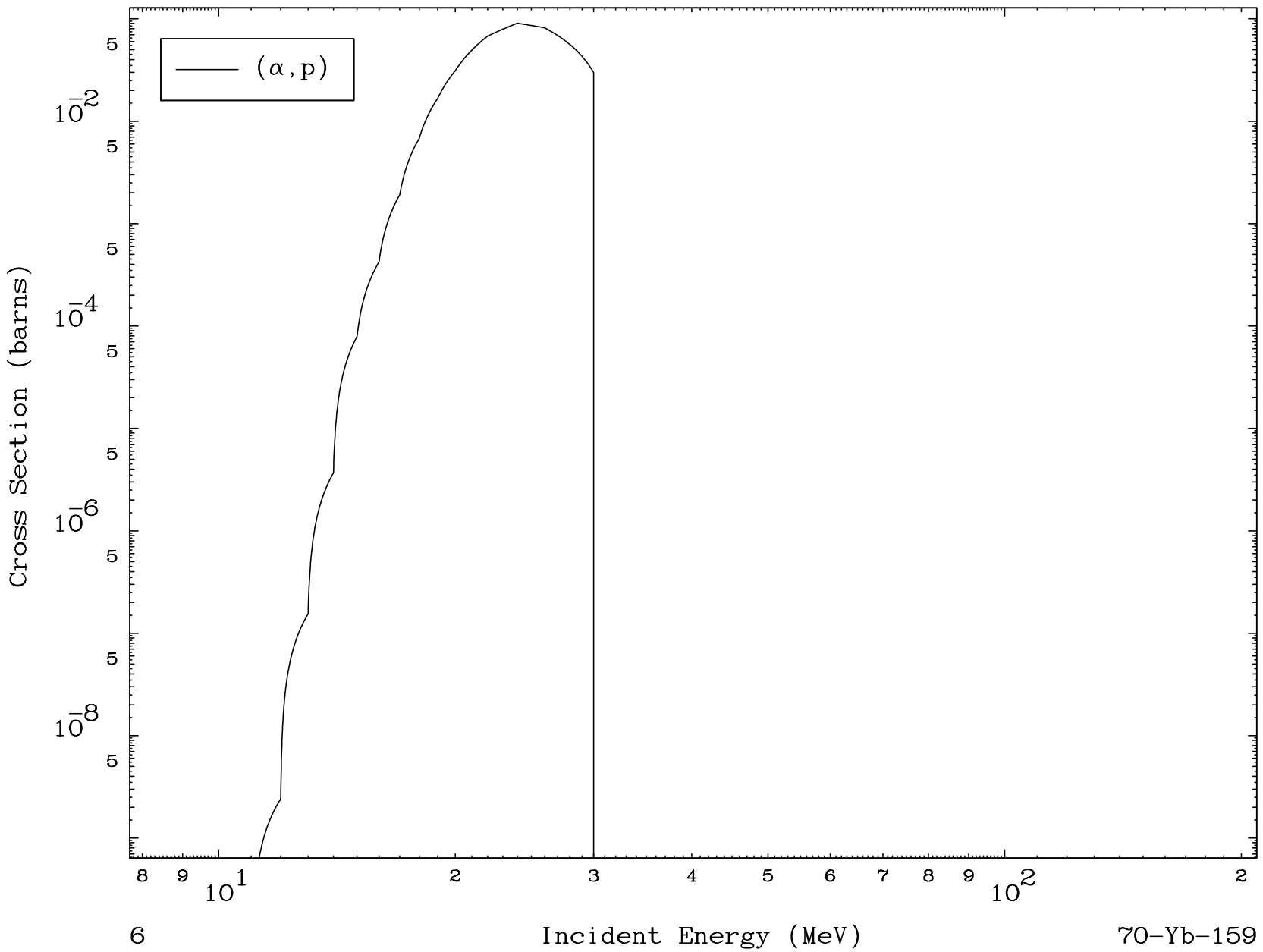

MAT 6998
α Major
70-Yb-159
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
70-Yb-159

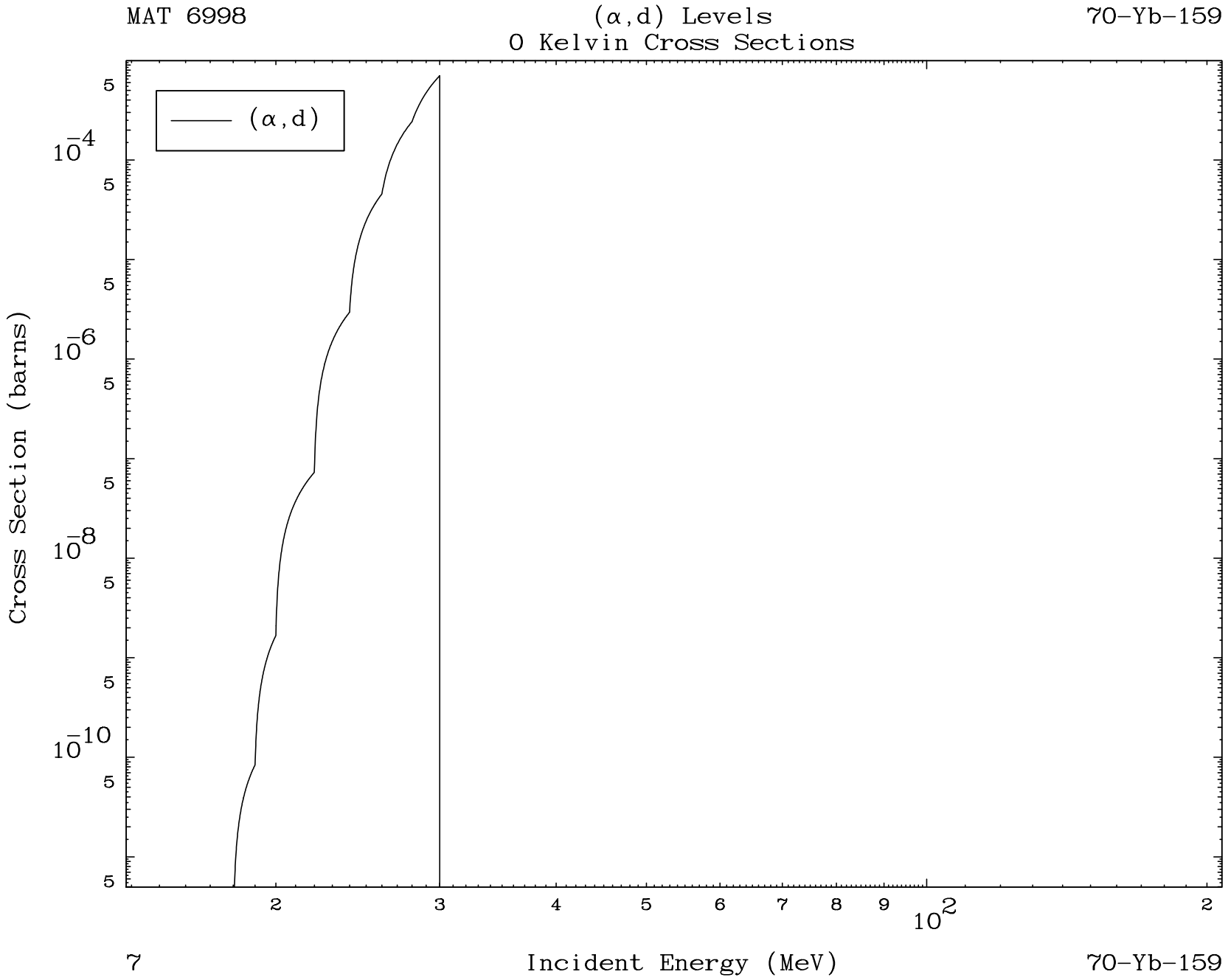

MAT 6998
α Neutron Production
0 Kelvin Cross Sections
70-Yb-159
(α,2n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,2n) p
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
2
70-Yb-159

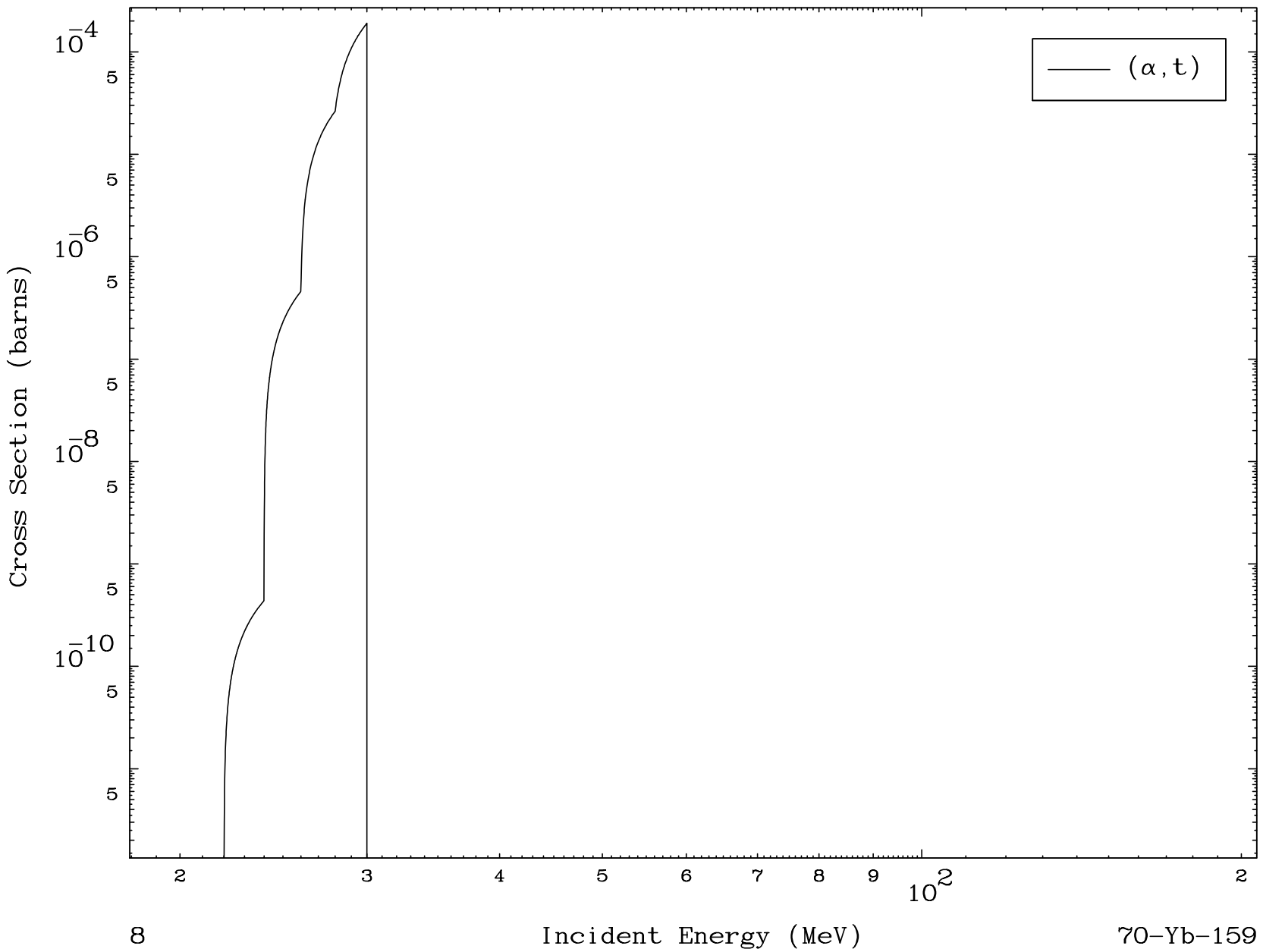

MAT 6998
α Charged Particle
0 Kelvin Cross Sections
70-Yb-159
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,2n) p
(α,p)
(α,d)
Cross Section (barns)
Incident Energy (MeV)
3
70-Yb-159

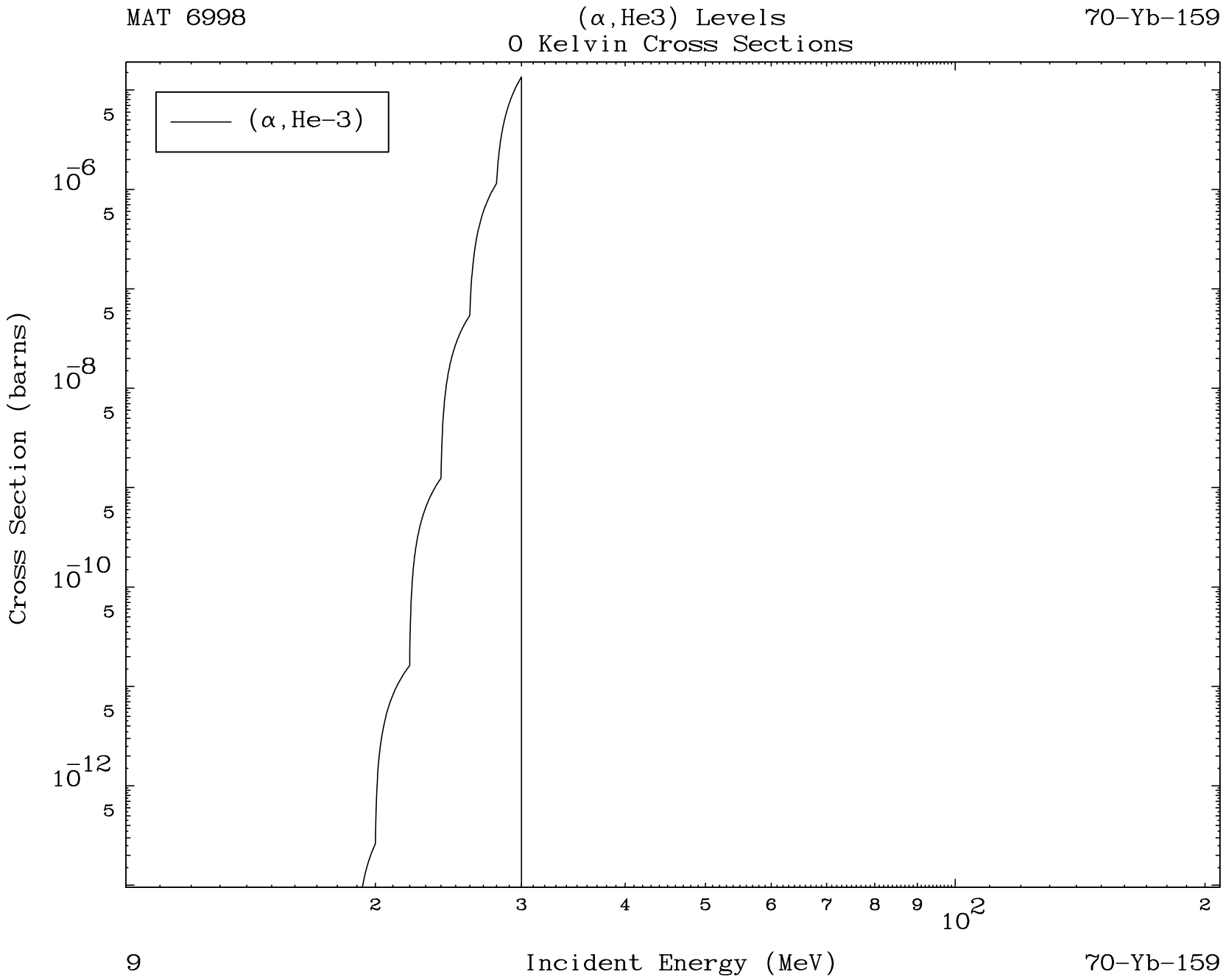

MAT 6998
α Charged Particle
0 Kelvin Cross Sections
70-Yb-159
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
Cross Section (barns)
Incident Energy (MeV)
4
70-Yb-159

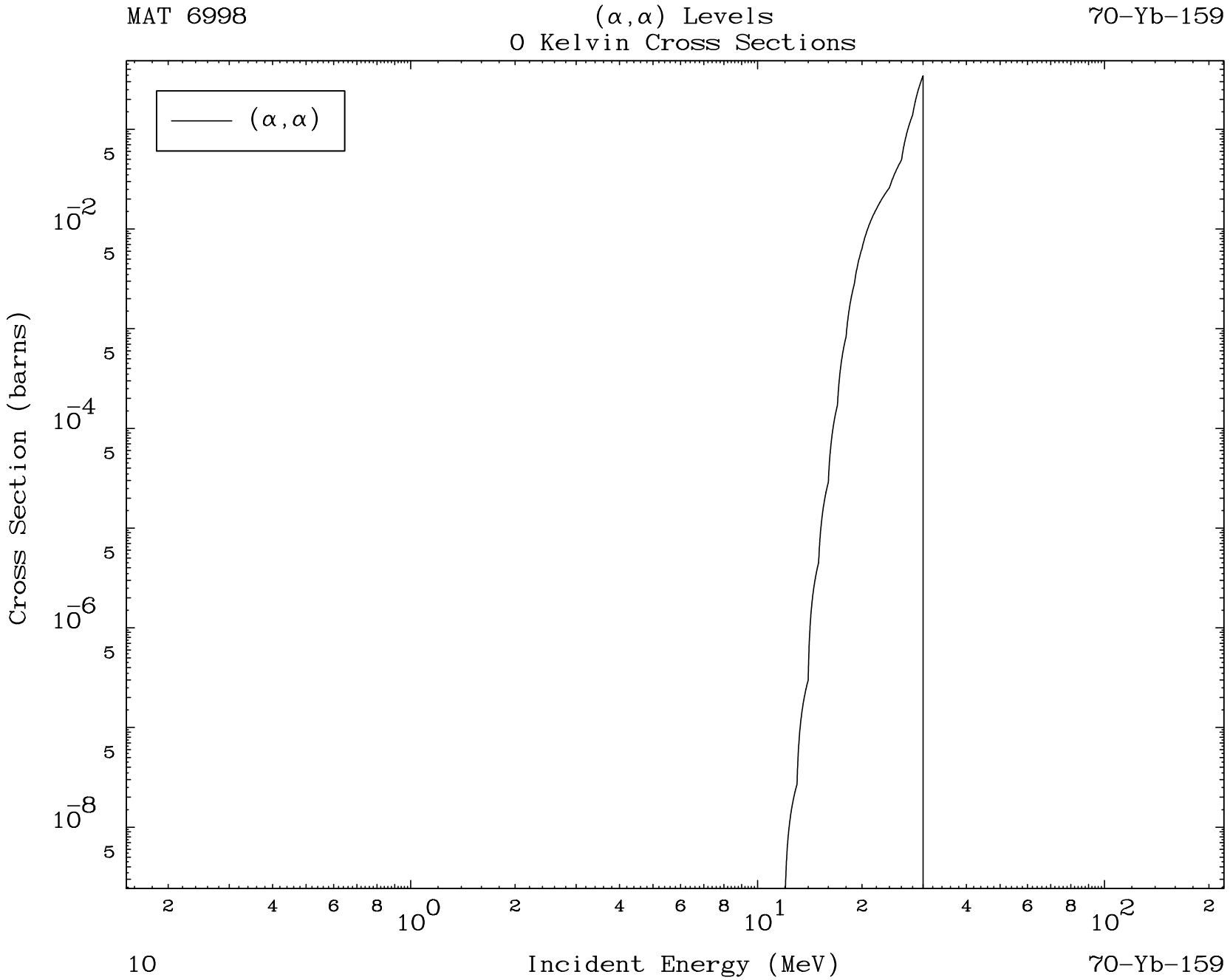

MAT 6998
(α,n') Level
70-Yb-159
0 Kelvin Cross Sections
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
α Inelastic
2
3
4
5
6
7
8
9
10 2
2
5
Incident Energy (MeV)
70-Yb-159

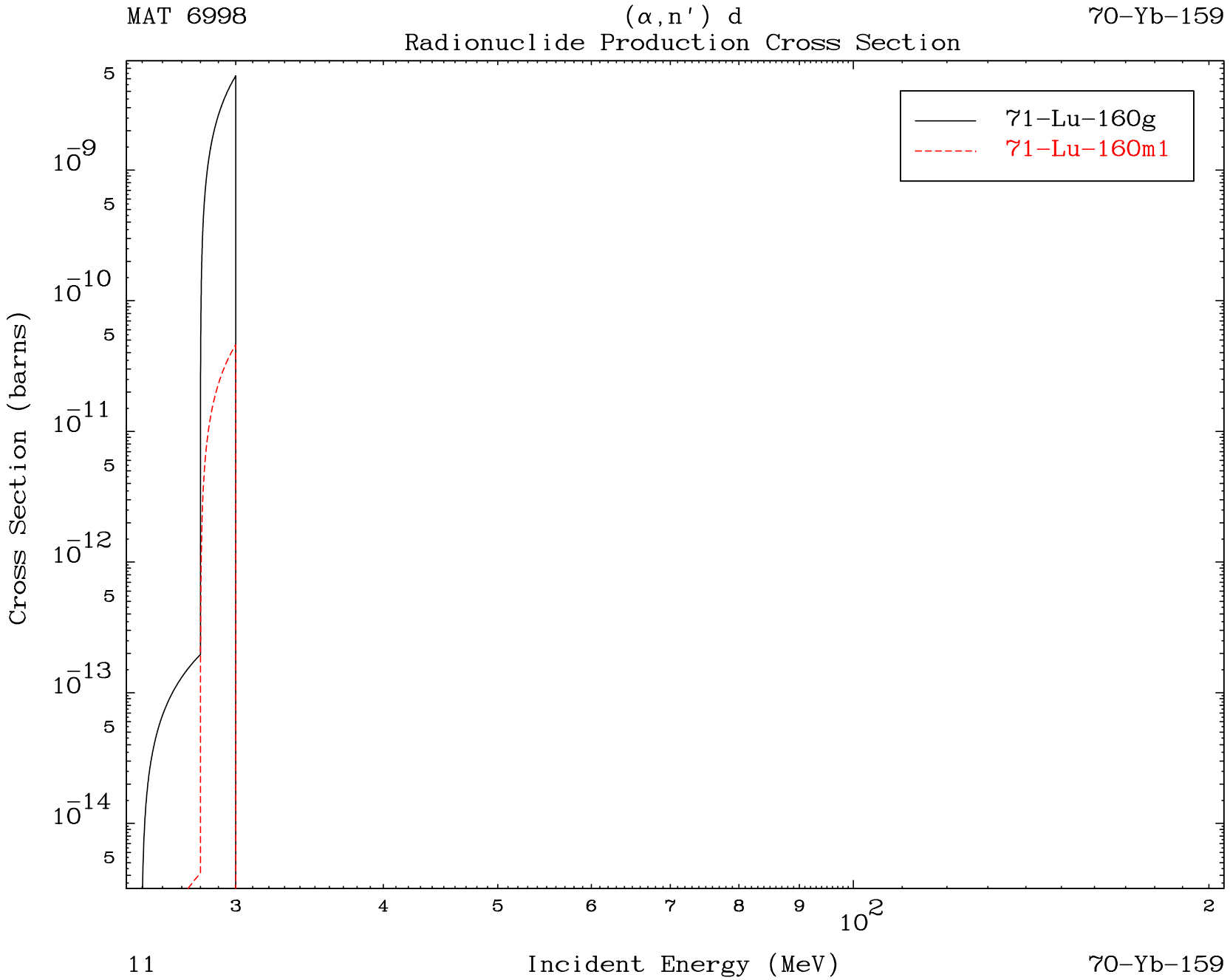

0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

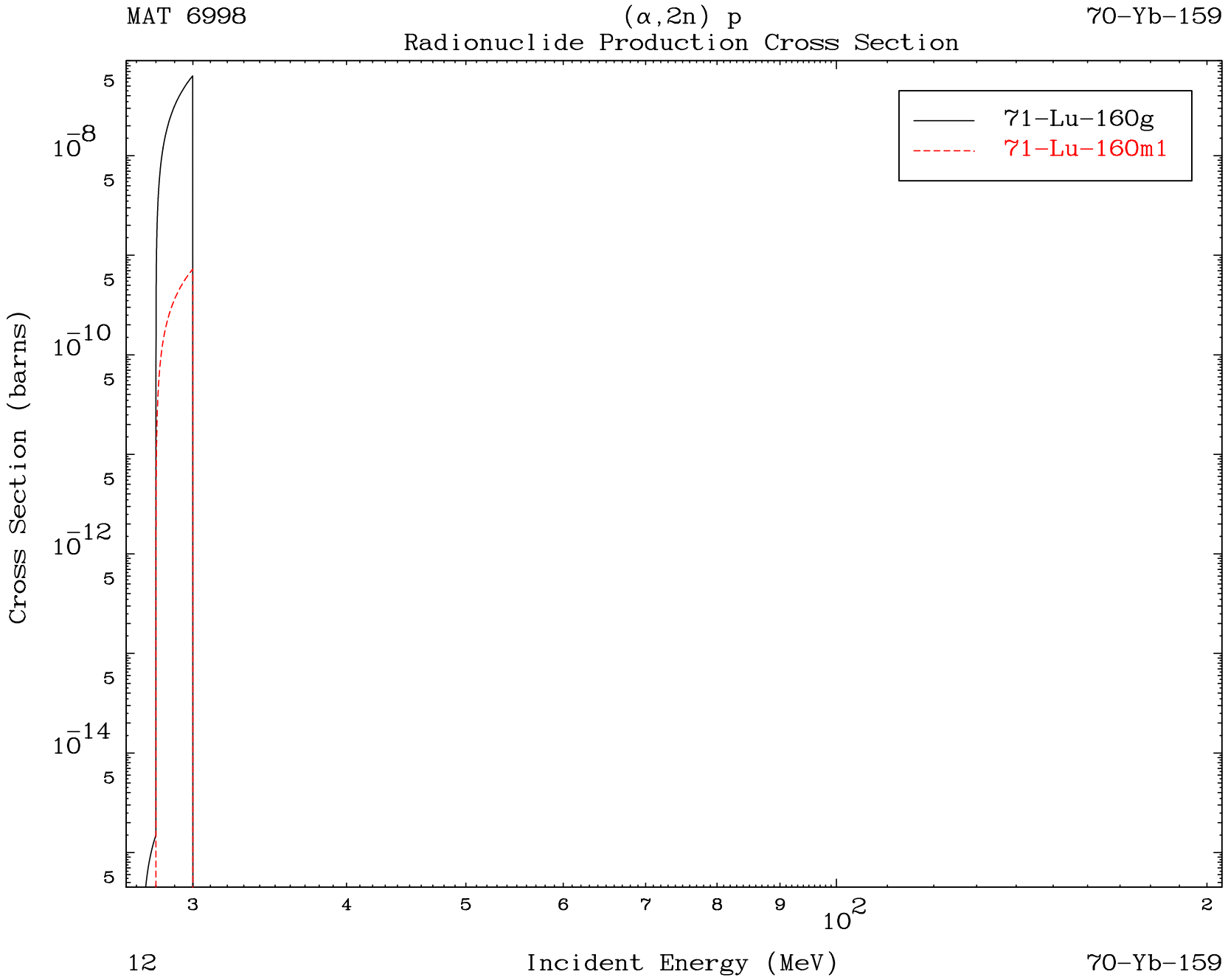

MAT 6998
(α,d) Levels
70-Yb-159
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
7
70-Yb-159

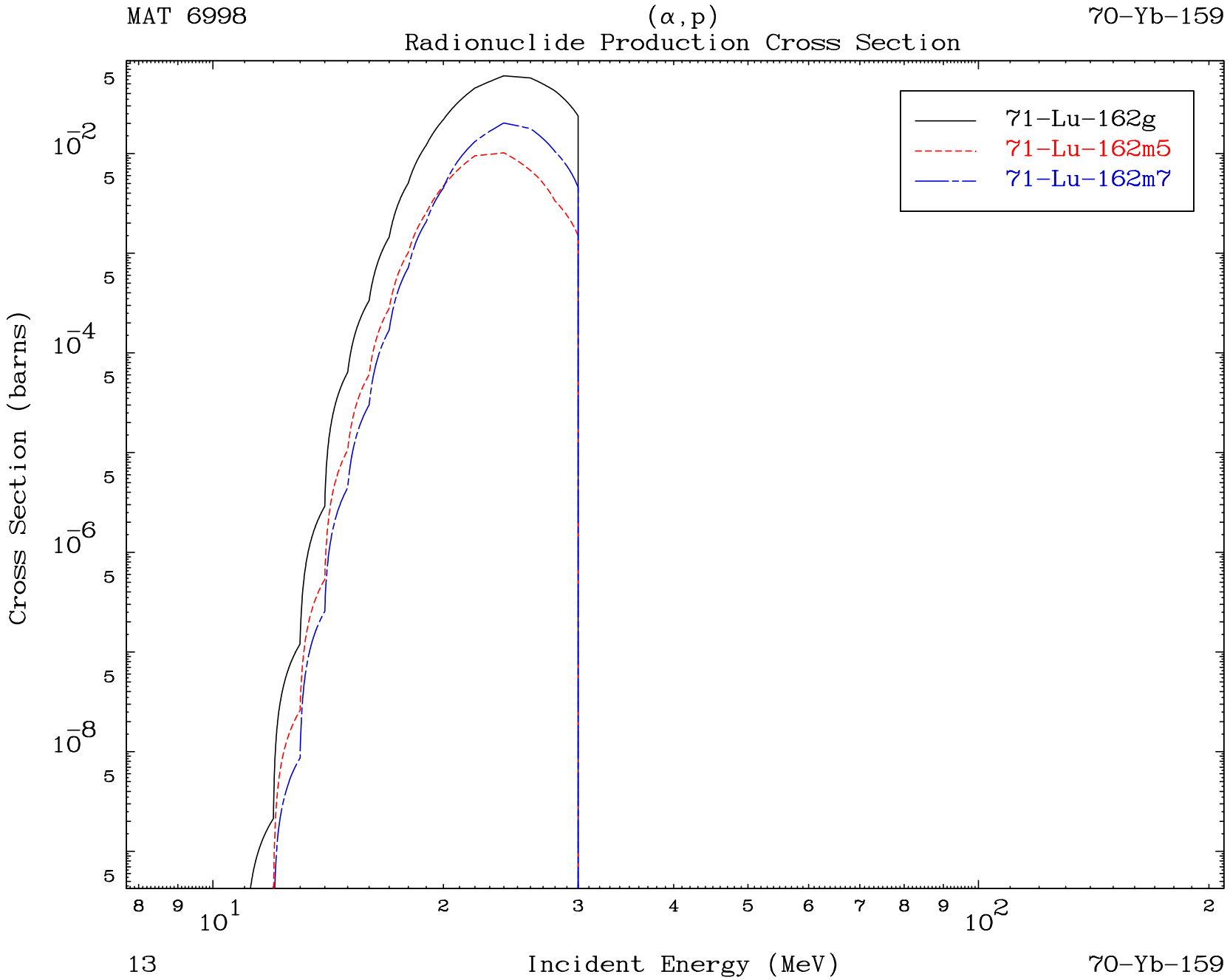

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
5
10^-6
5
10^-8
5
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

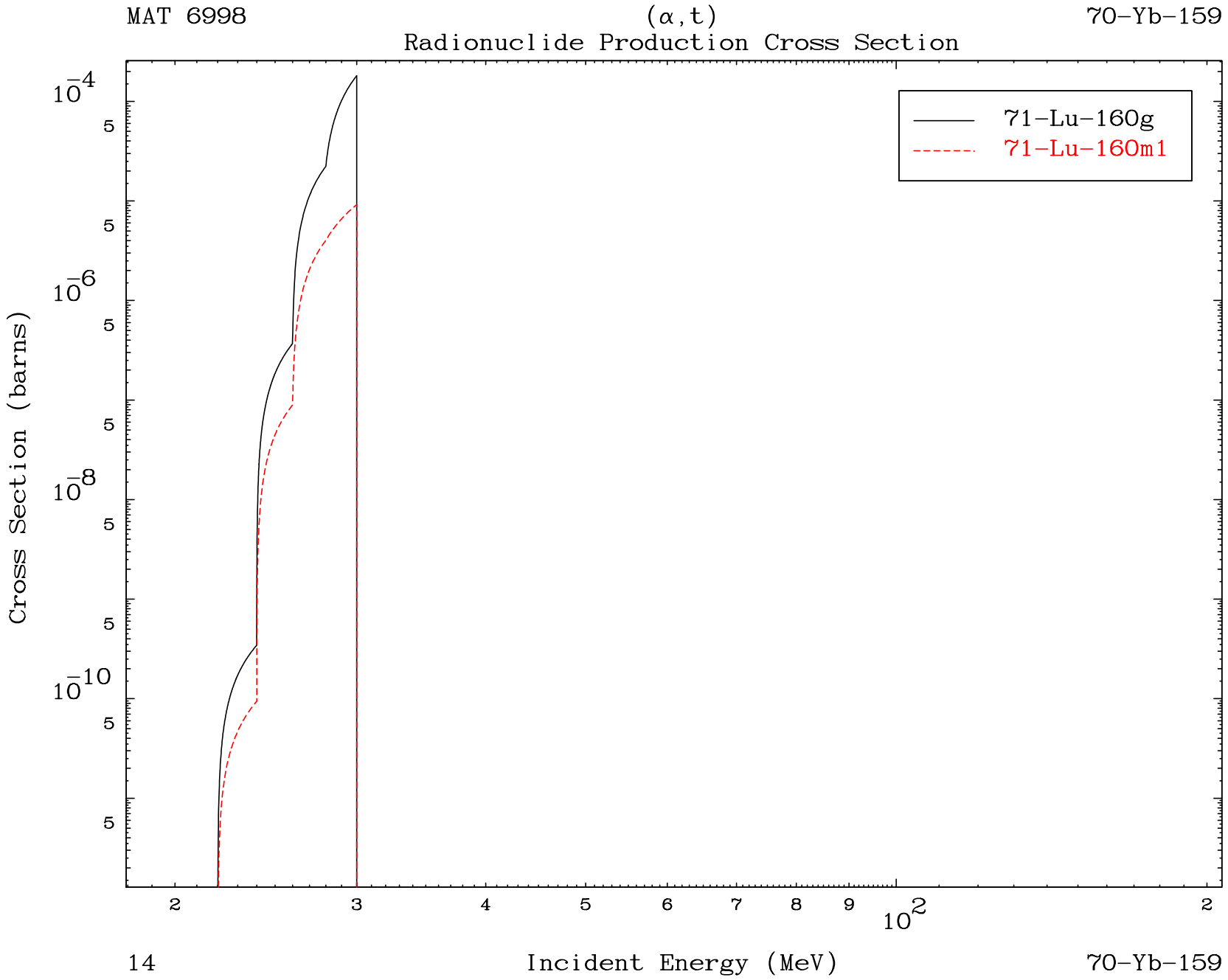

MAT 6998
(α,He3) Levels
70-Yb-159
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
70-Yb-159

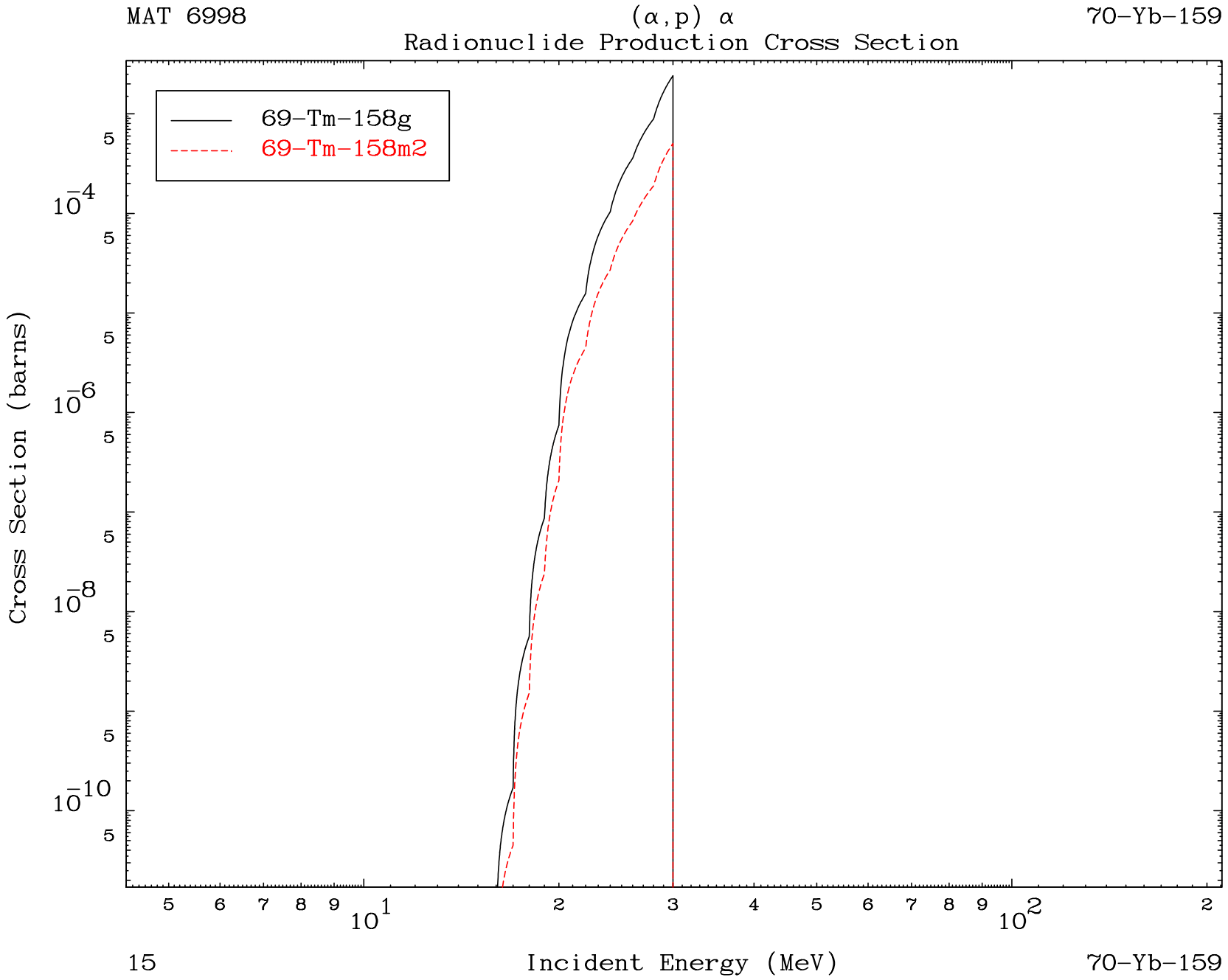

MAT 6998
(α,α) Levels
70-Yb-159
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
70-Yb-159


MAT 6998
(α,n') d
70-Yb-159
Radionuclide Production Cross Section
71-Lu-160g
71-Lu-160m1
Cross Section (barns)
10-9
10-10
10-11
10-12
10-13
10-14
5
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
70-Yb-159


MAT 6998
(α,2n) p
70-Yb-159
Radionuclide Production Cross Section
71-Lu-160g
71-Lu-160m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
70-Yb-159


MAT 6998
(α,p)
70-Yb-159
Radionuclide Production Cross Section
71-Lu-162g
71-Lu-162m5
71-Lu-162m7
Cross Section (barns)
Incident Energy (MeV)
13
70-Yb-159


MAT 6998
(α,t)
70-Yb-159
Radionuclide Production Cross Section
71-Lu-160g
71-Lu-160m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
70-Yb-159


MAT 6998
(α,p) α
70-Yb-159
Radionuclide Production Cross Section
69-Tm-158g
69-Tm-158m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
Incident Energy (MeV)
10 1
10 2
5 6 7 8 9
2 3 4 5 6 7 8 9
2
15
70-Yb-159