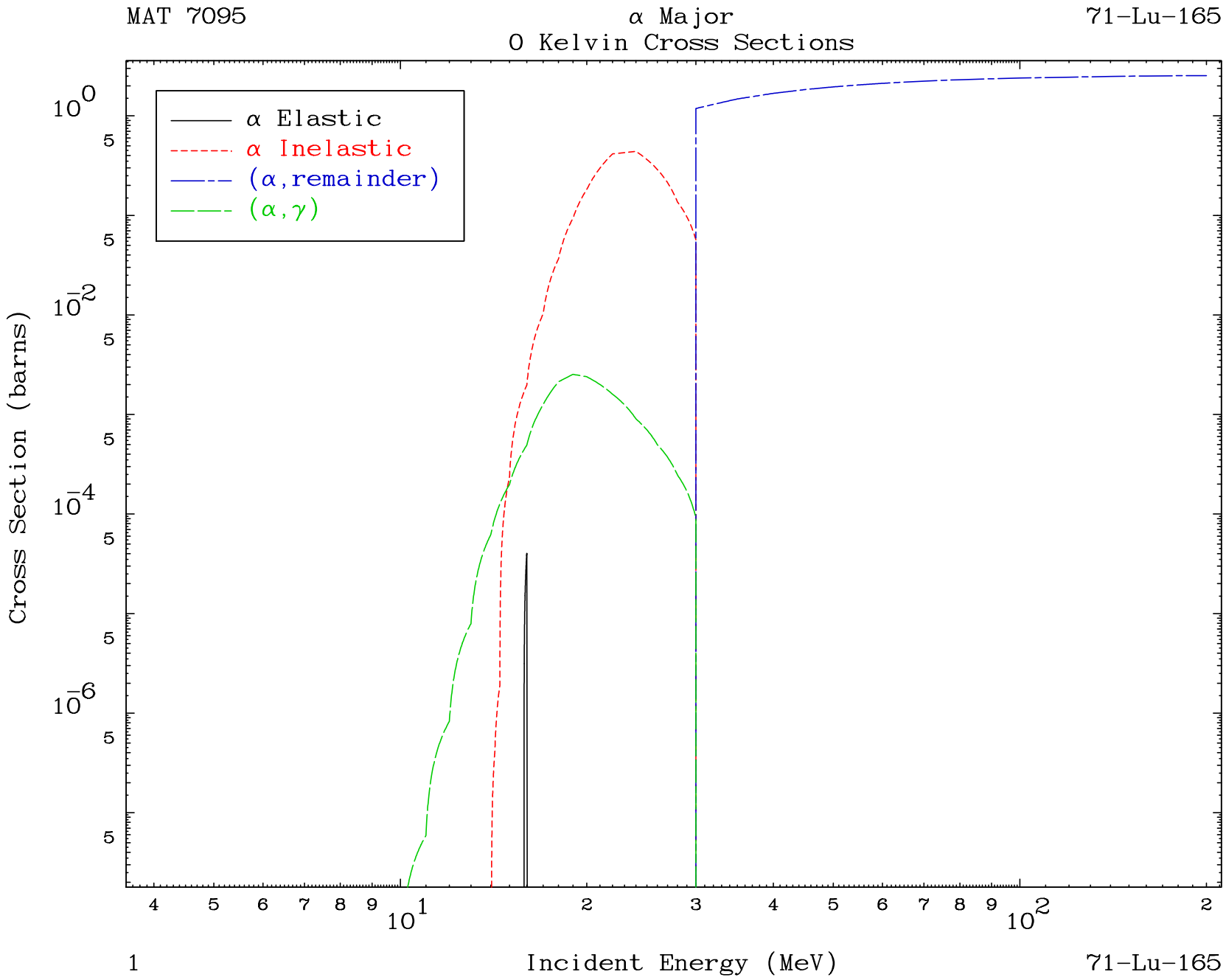
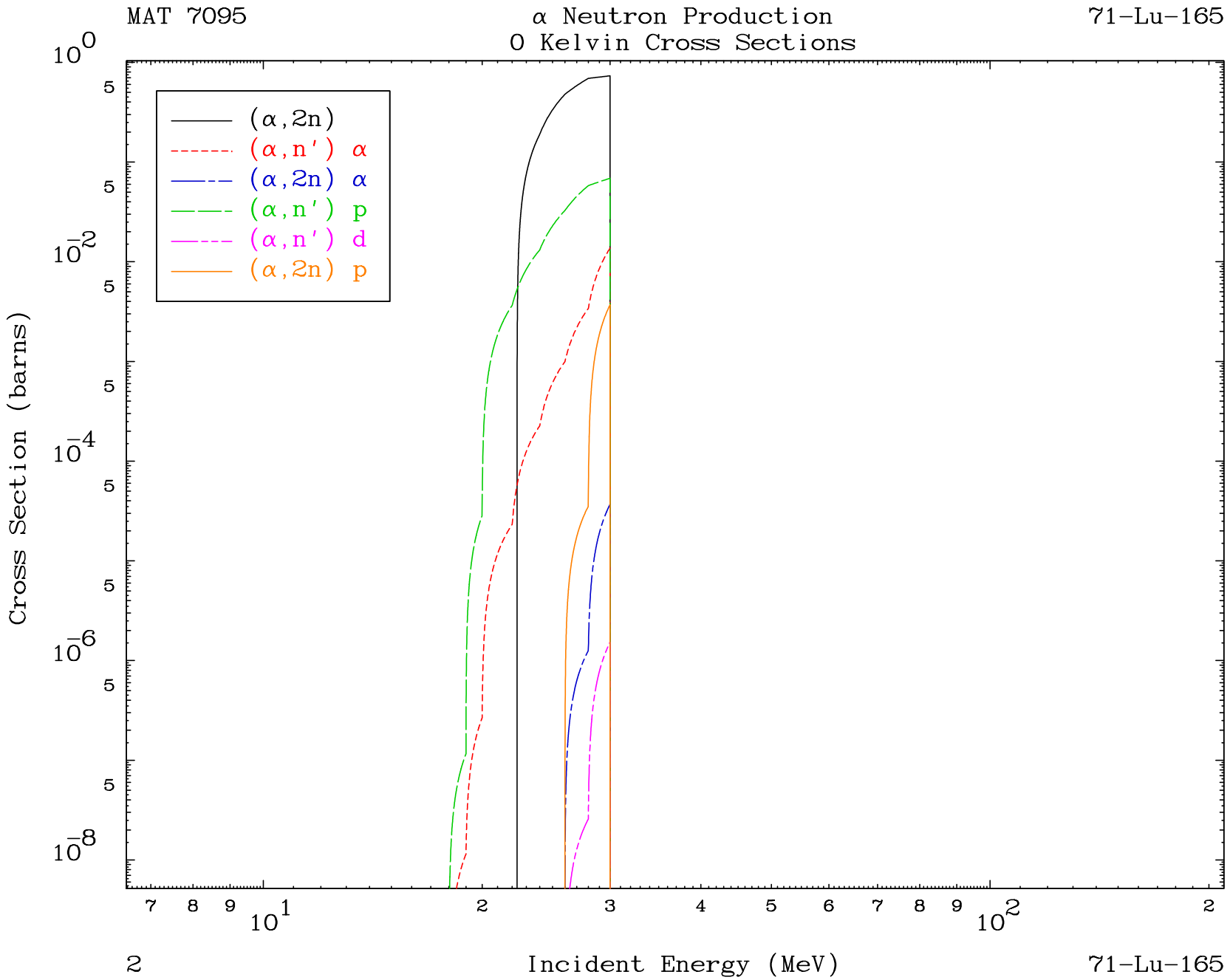
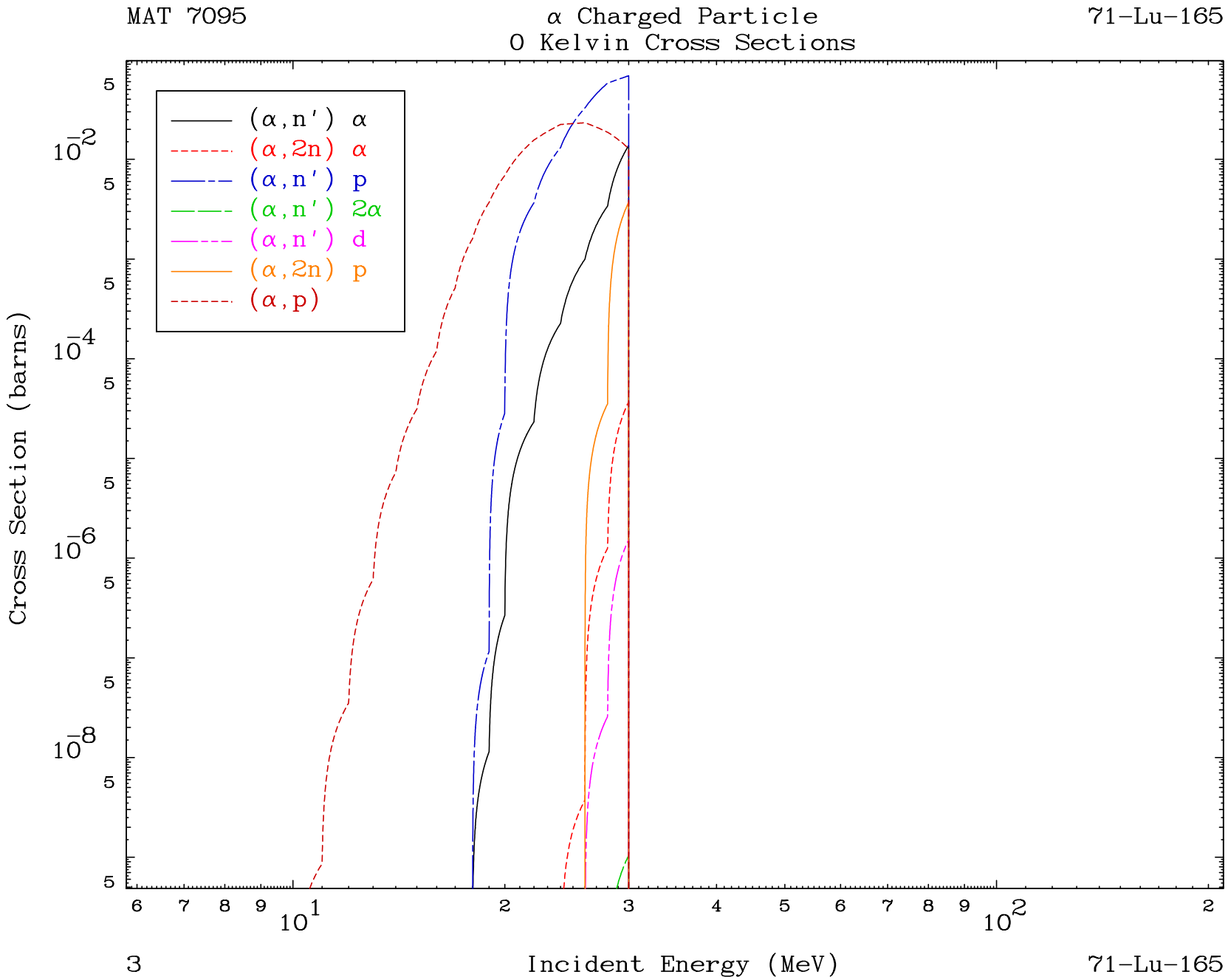
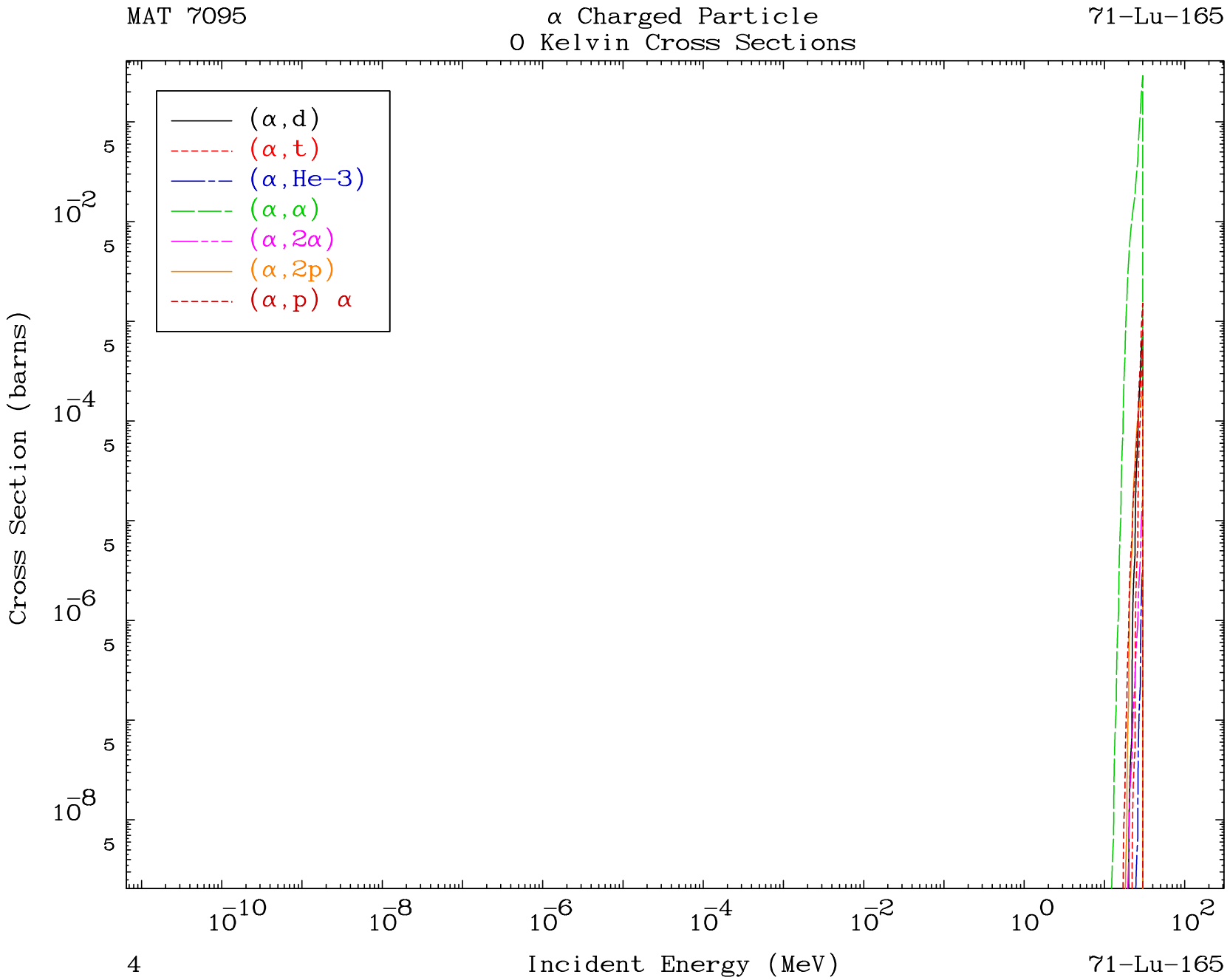
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

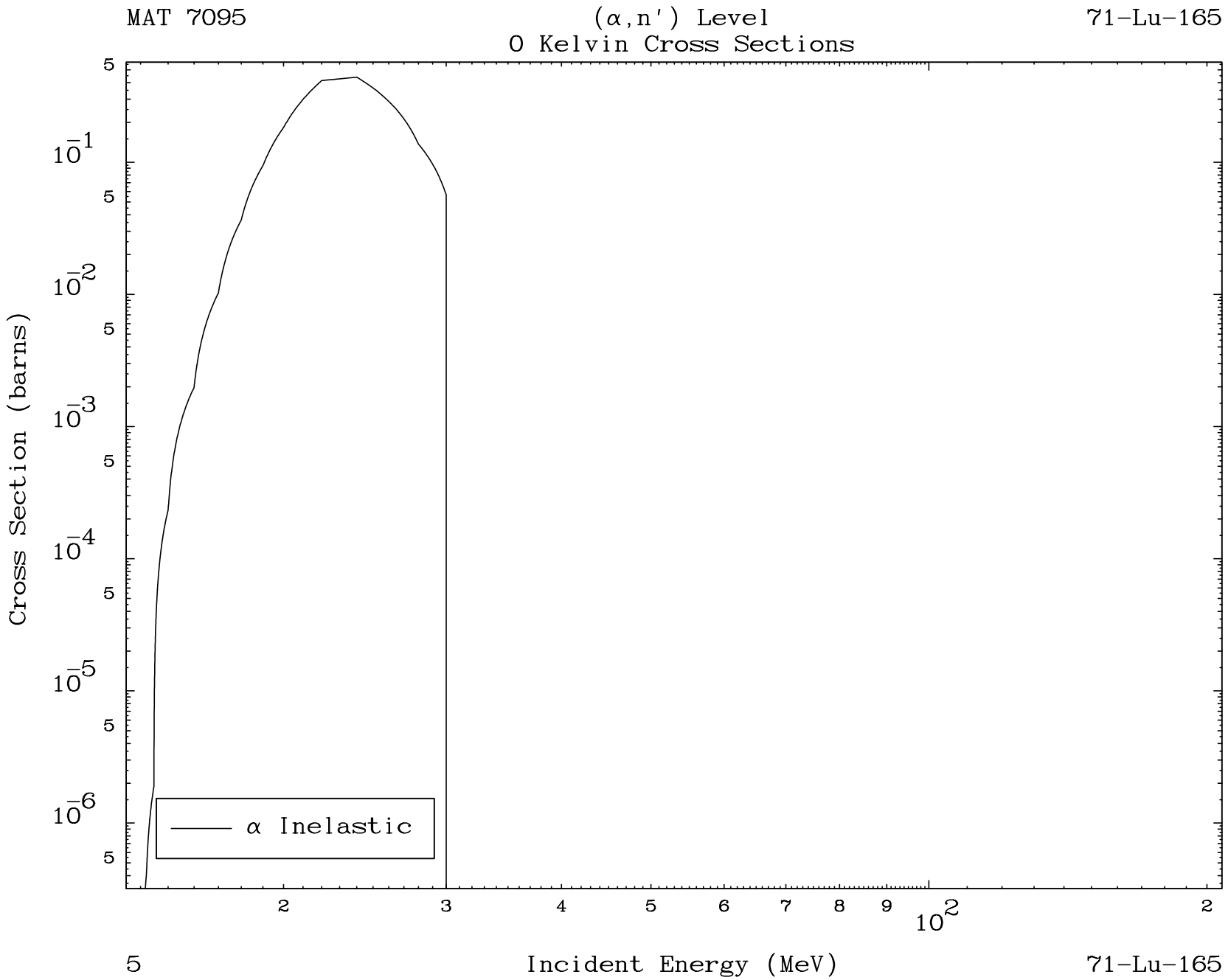
Press Mouse Button to Start

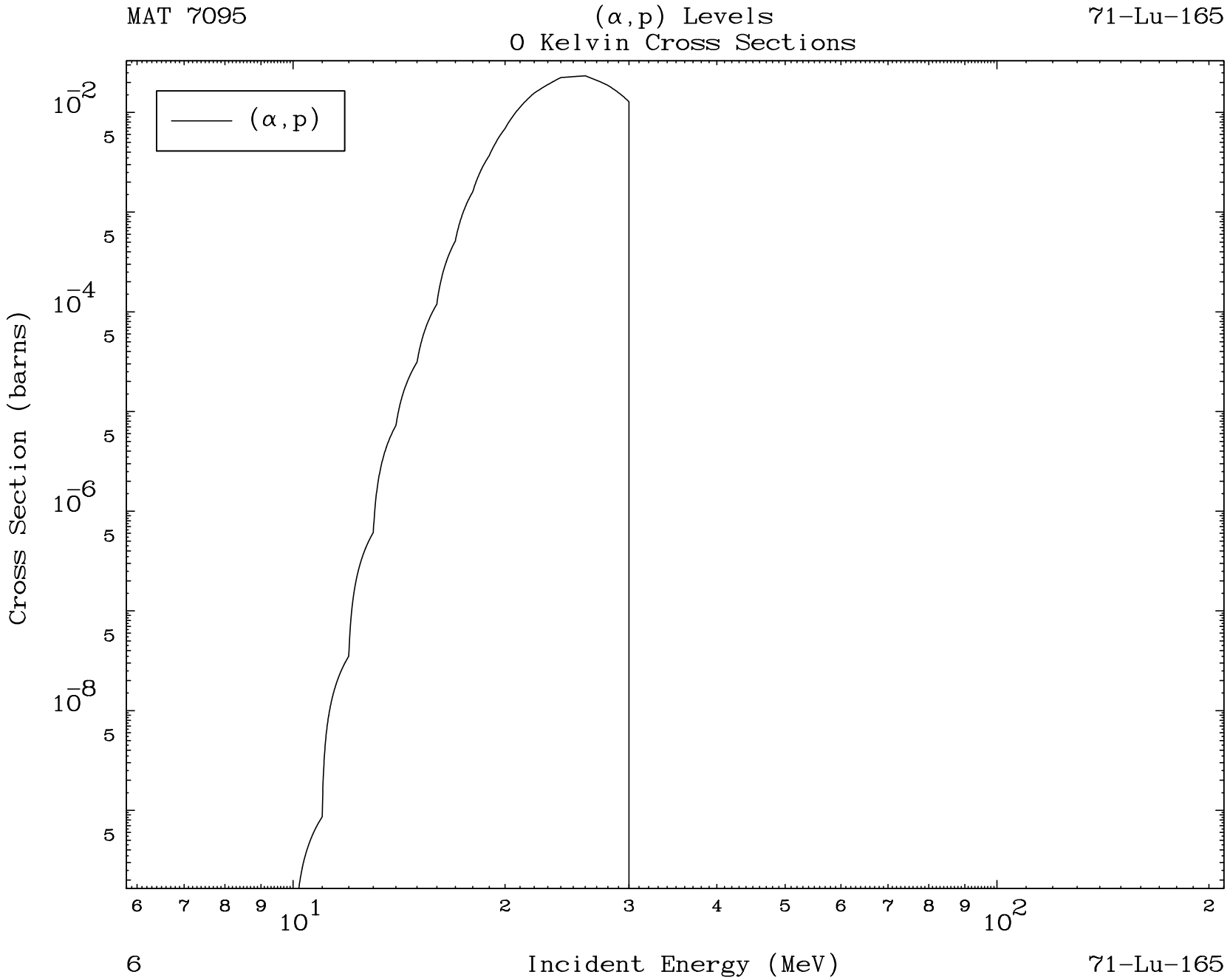

MAT 7095
α Major
71-Lu-165
0 Kelvin Cross Sections
α Elastic
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
71-Lu-165

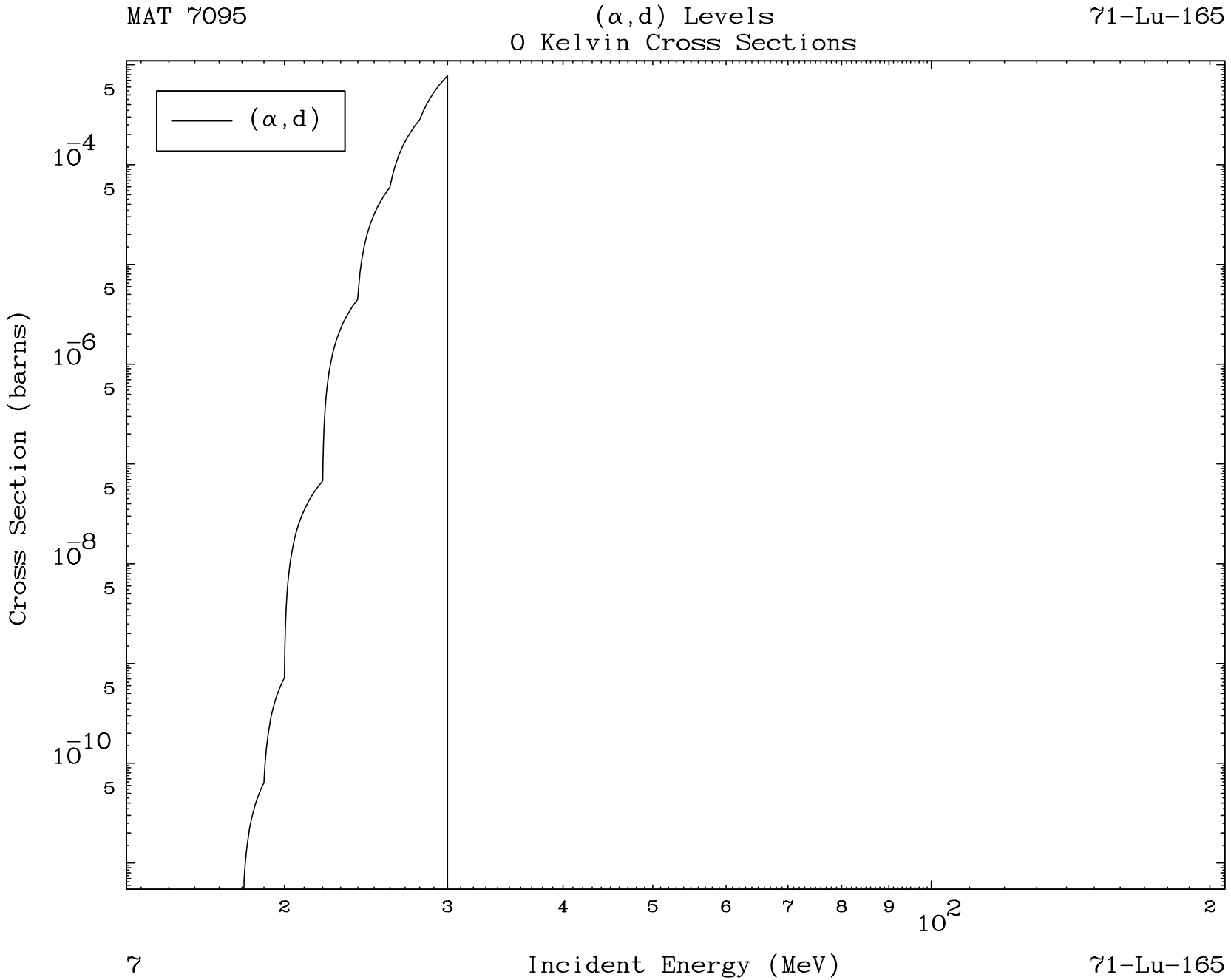

MAT 7095
α Neutron Production
0 Kelvin Cross Sections
71-Lu-165
(α,2n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
71-Lu-165

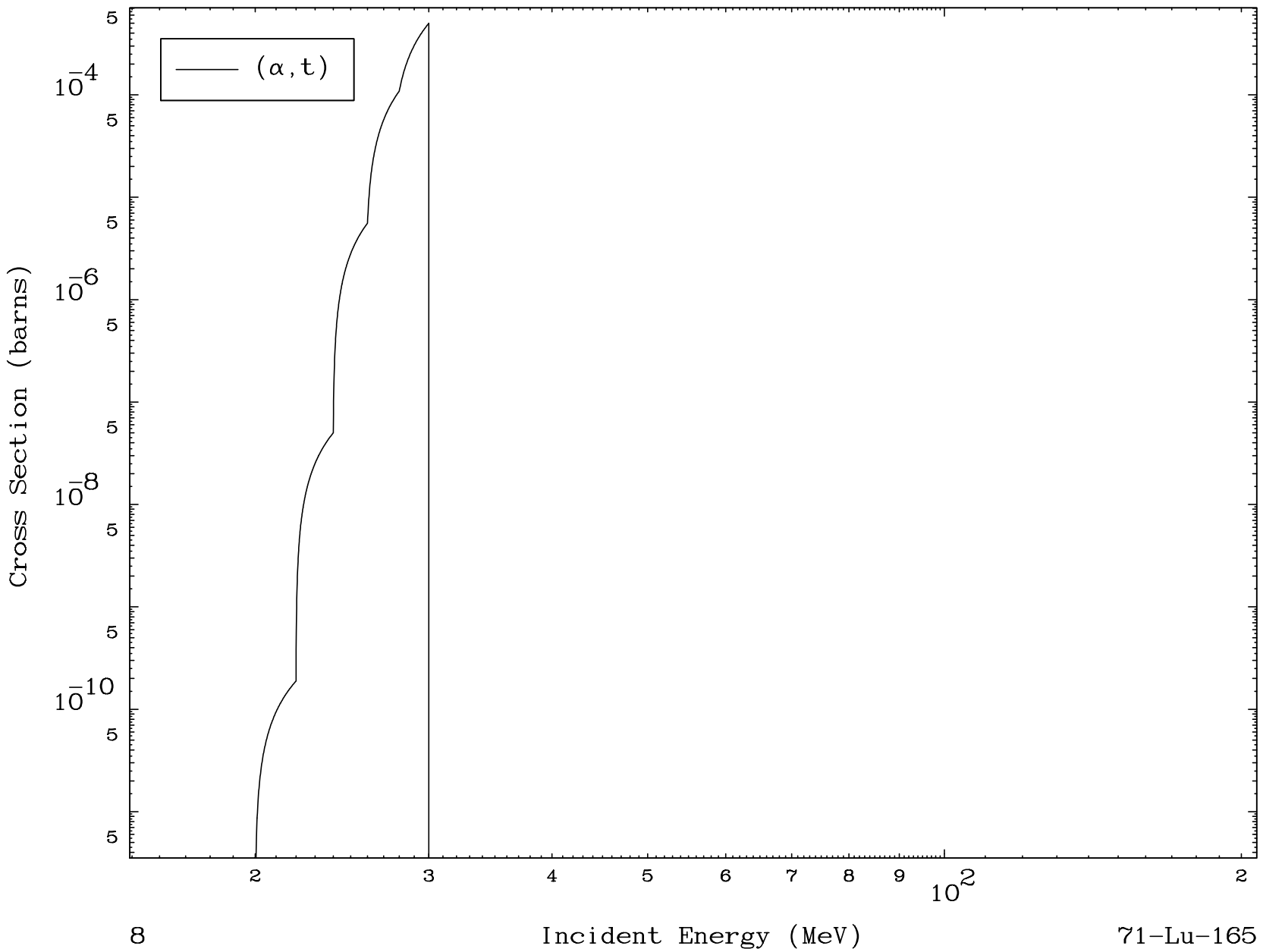

MAT 7095
α Charged Particle
0 Kelvin Cross Sections
71-Lu-165
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,2n) p
(α,p)
Cross Section (barns)
Incident Energy (MeV)
3
71-Lu-165

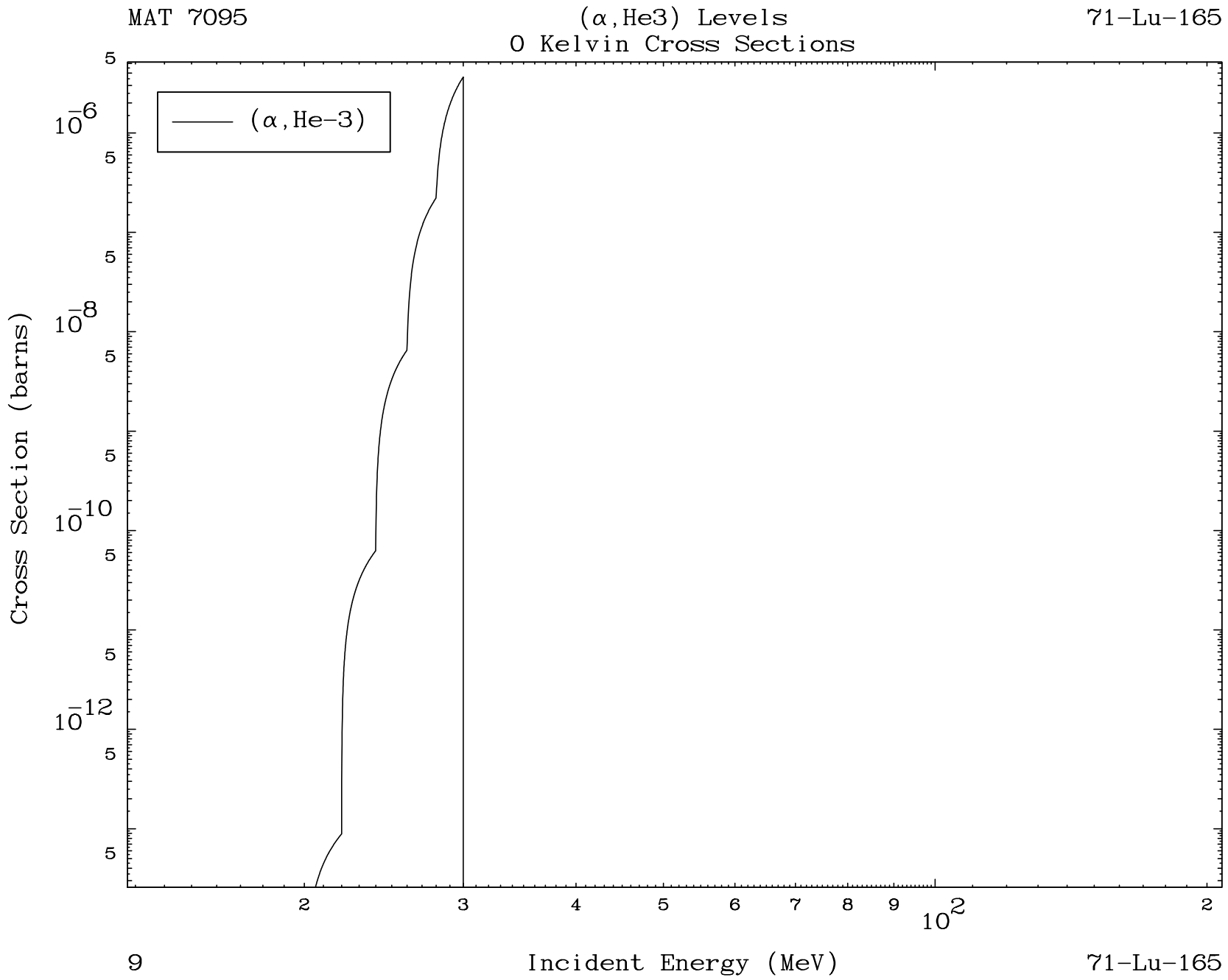

MAT 7095
α Charged Particle
0 Kelvin Cross Sections
71-Lu-165
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
Cross Section (barns)
Incident Energy (MeV)
4
71-Lu-165

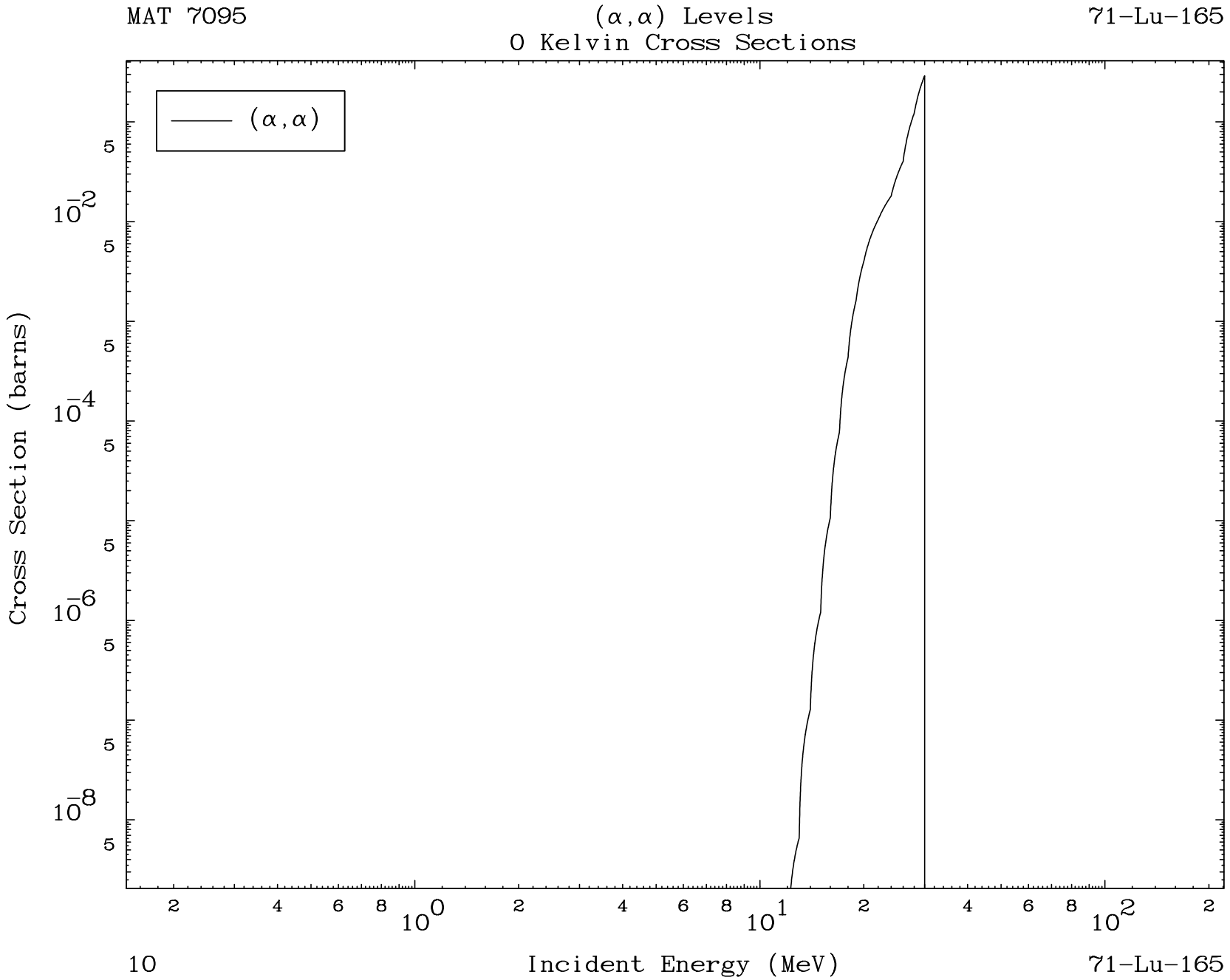

MAT 7095
(α,n') Level
71-Lu-165
0 Kelvin Cross Sections
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
α Inelastic
2
3
4
5
6
7
8
9
10 2
2
5
Incident Energy (MeV)
71-Lu-165

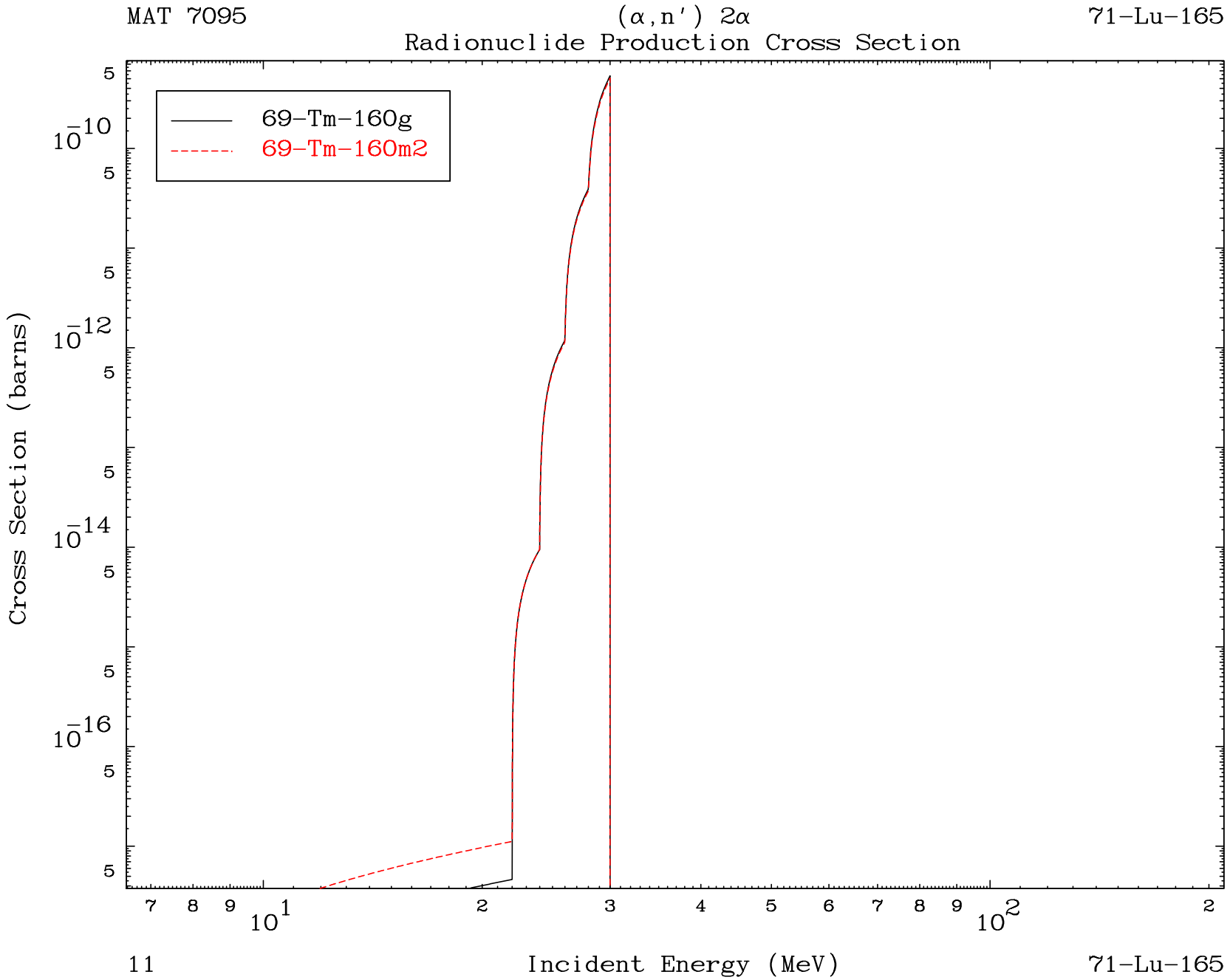

MAT 7095
(α,p) Levels
71-Lu-165
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
71-Lu-165

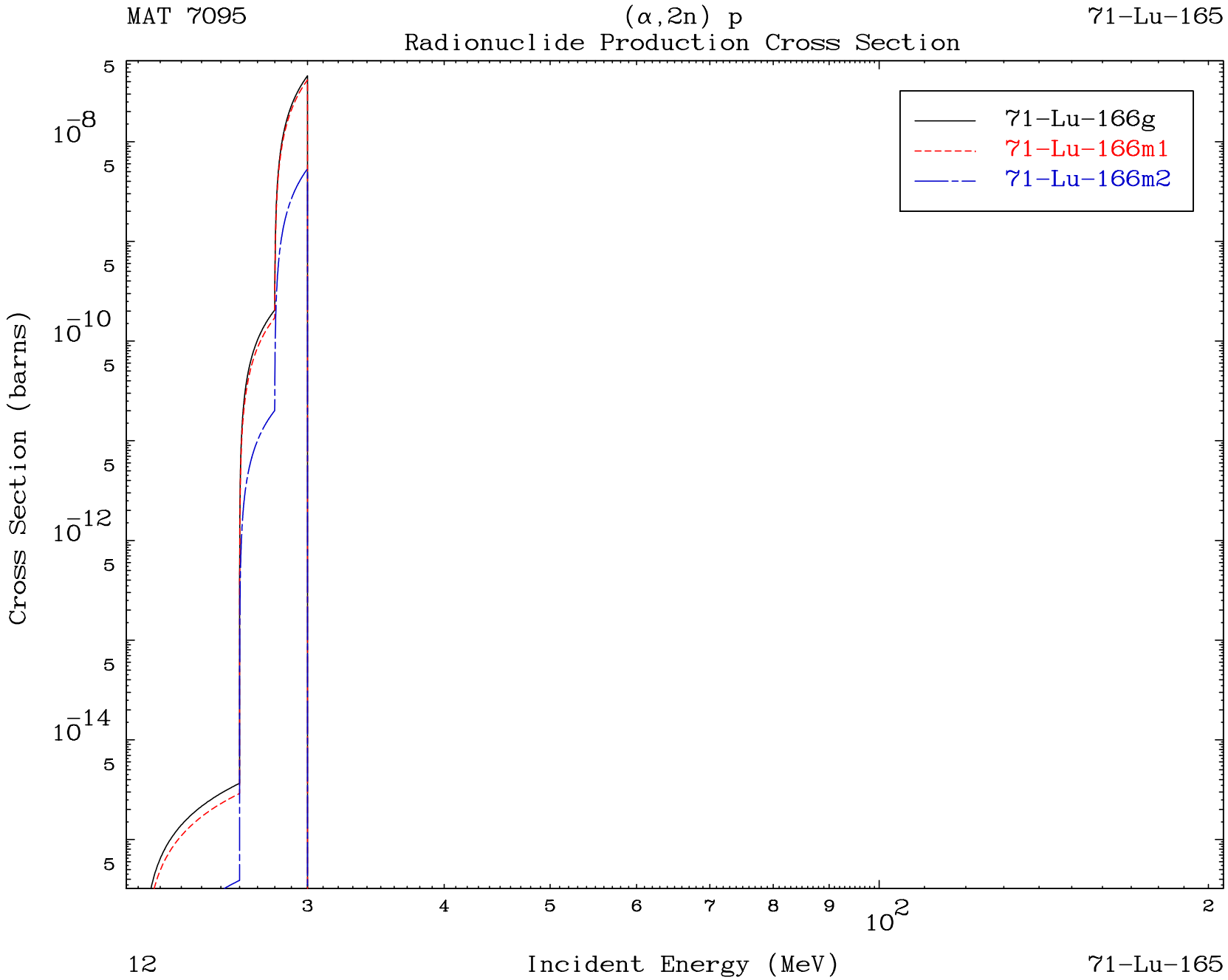

MAT 7095
(α,d) Levels
71-Lu-165
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
7
71-Lu-165

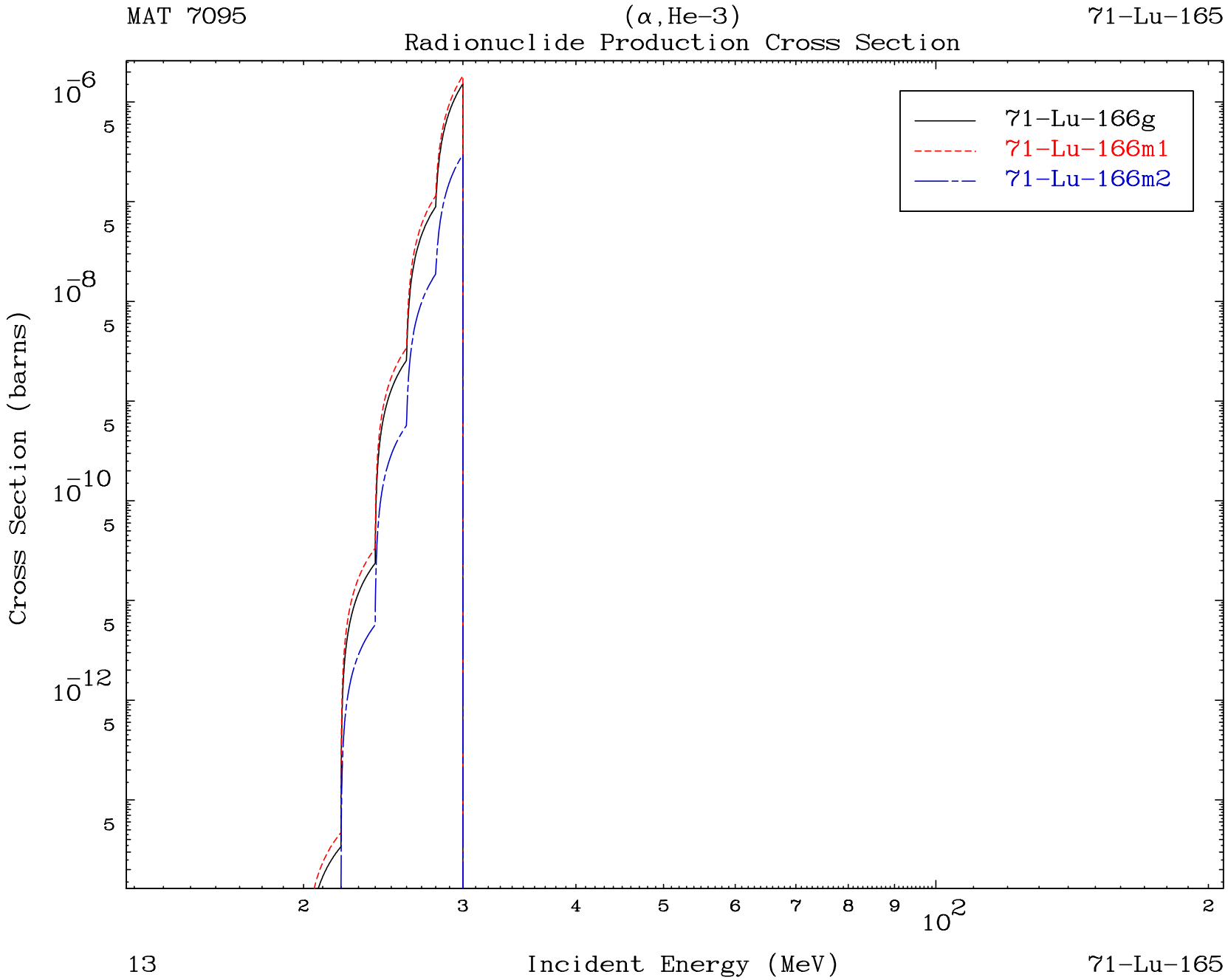

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

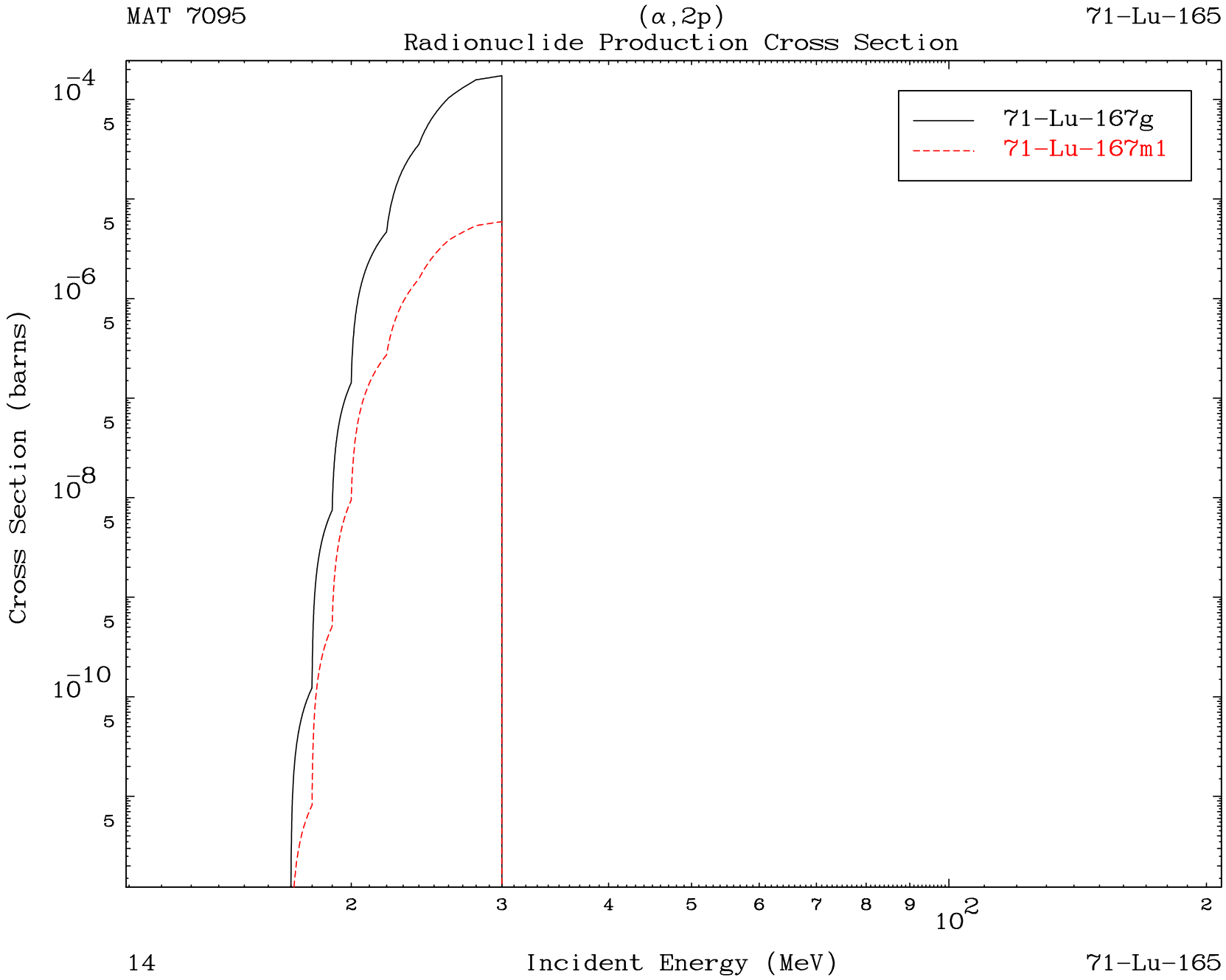

MAT 7095
(α,He3) Levels
71-Lu-165
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
9
71-Lu-165


MAT 7095
(α,α) Levels
71-Lu-165
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)
71-Lu-165


MAT 7095
(α,n') 2α
71-Lu-165
Radionuclide Production Cross Section
69-Tm-160g
69-Tm-160m2
Cross Section (barns)
Incident Energy (MeV)
11
71-Lu-165


MAT 7095
(α,2n) p
71-Lu-165
Radionuclide Production Cross Section
71-Lu-166g
71-Lu-166m1
71-Lu-166m2
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)
71-Lu-165


MAT 7095
(α,He-3)
71-Lu-165
Radionuclide Production Cross Section
71-Lu-166g
71-Lu-166m1
71-Lu-166m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
71-Lu-165


MAT 7095
(α,2p)
71-Lu-165
Radionuclide Production Cross Section
71-Lu-167g
71-Lu-167m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
71-Lu-165