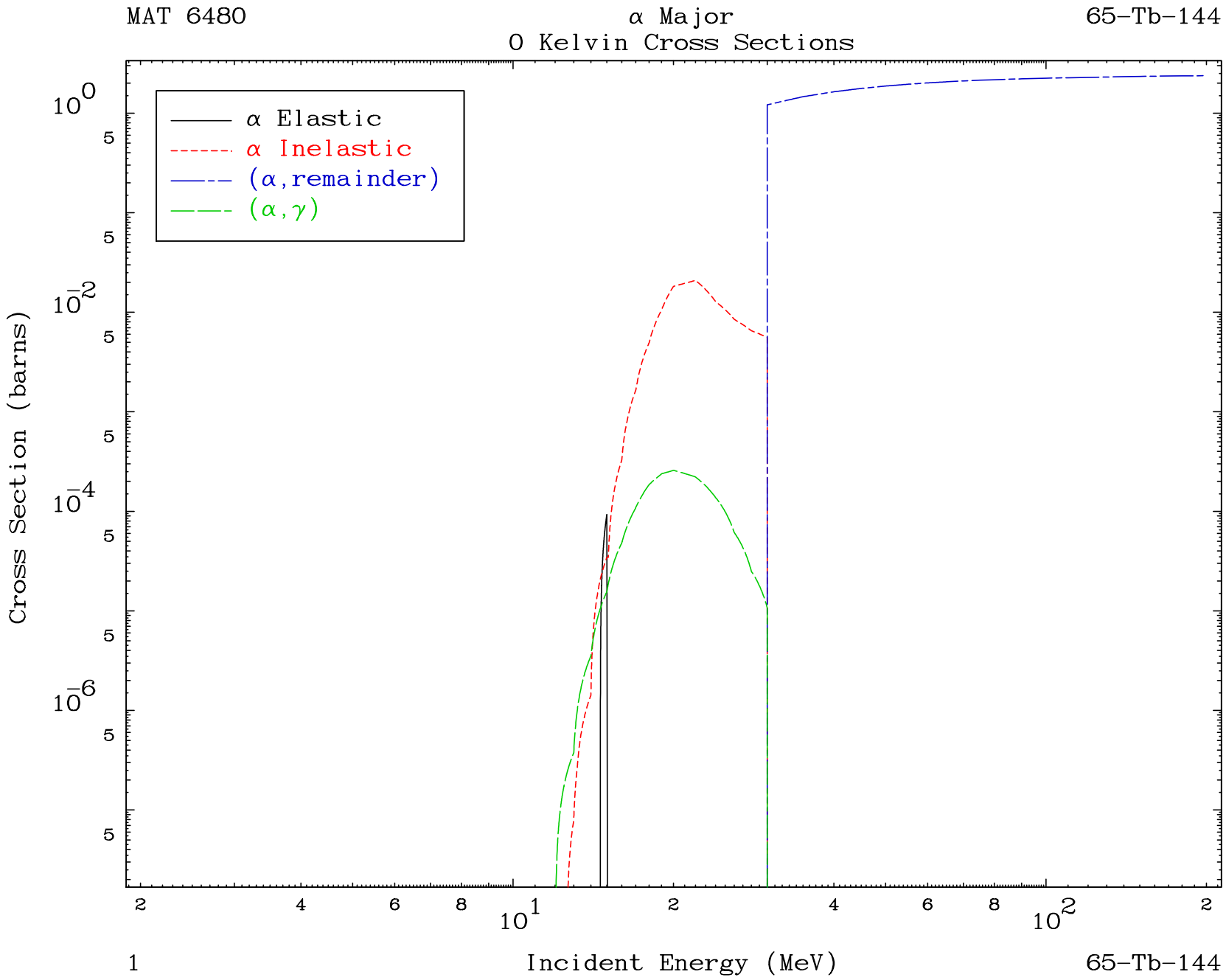
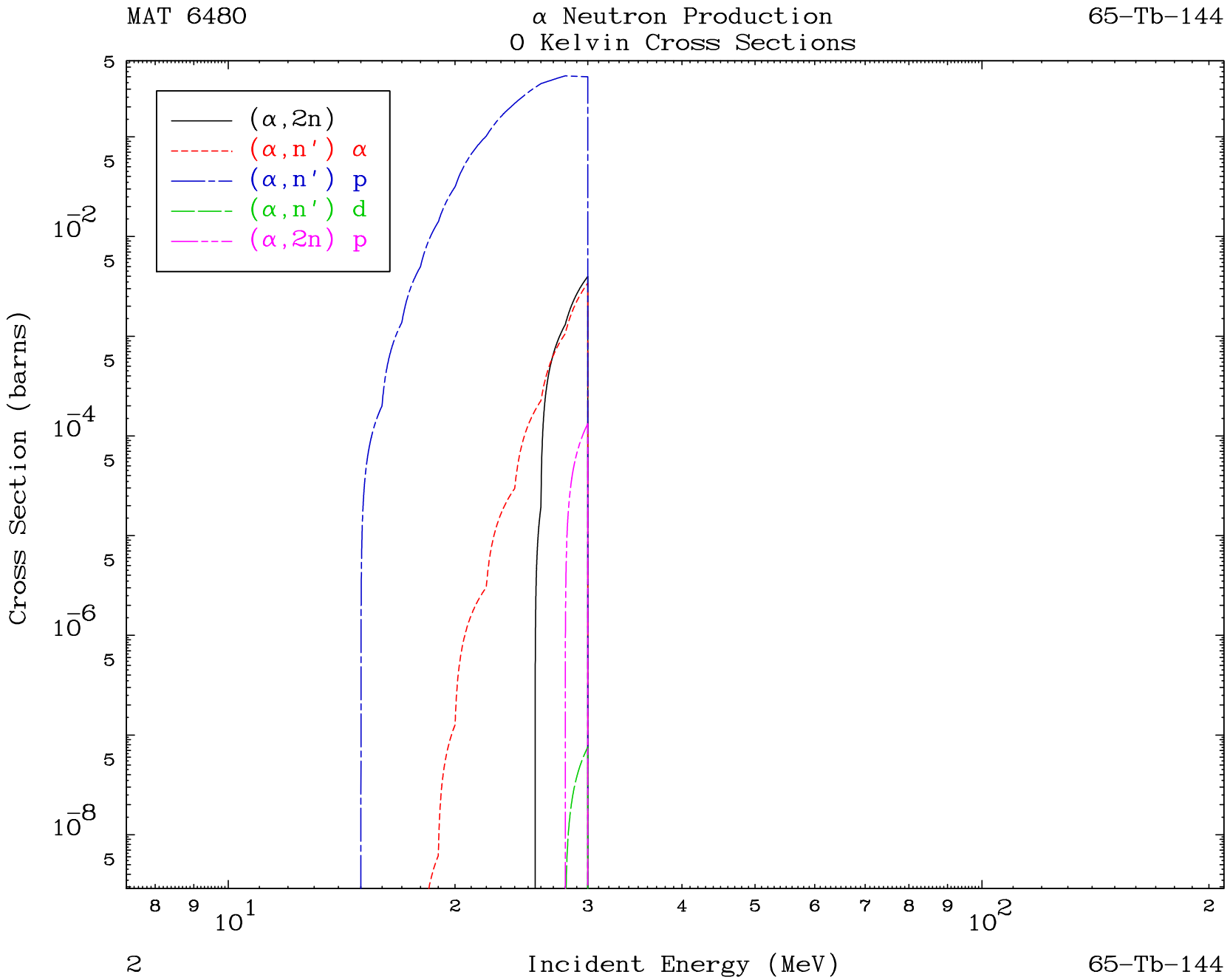
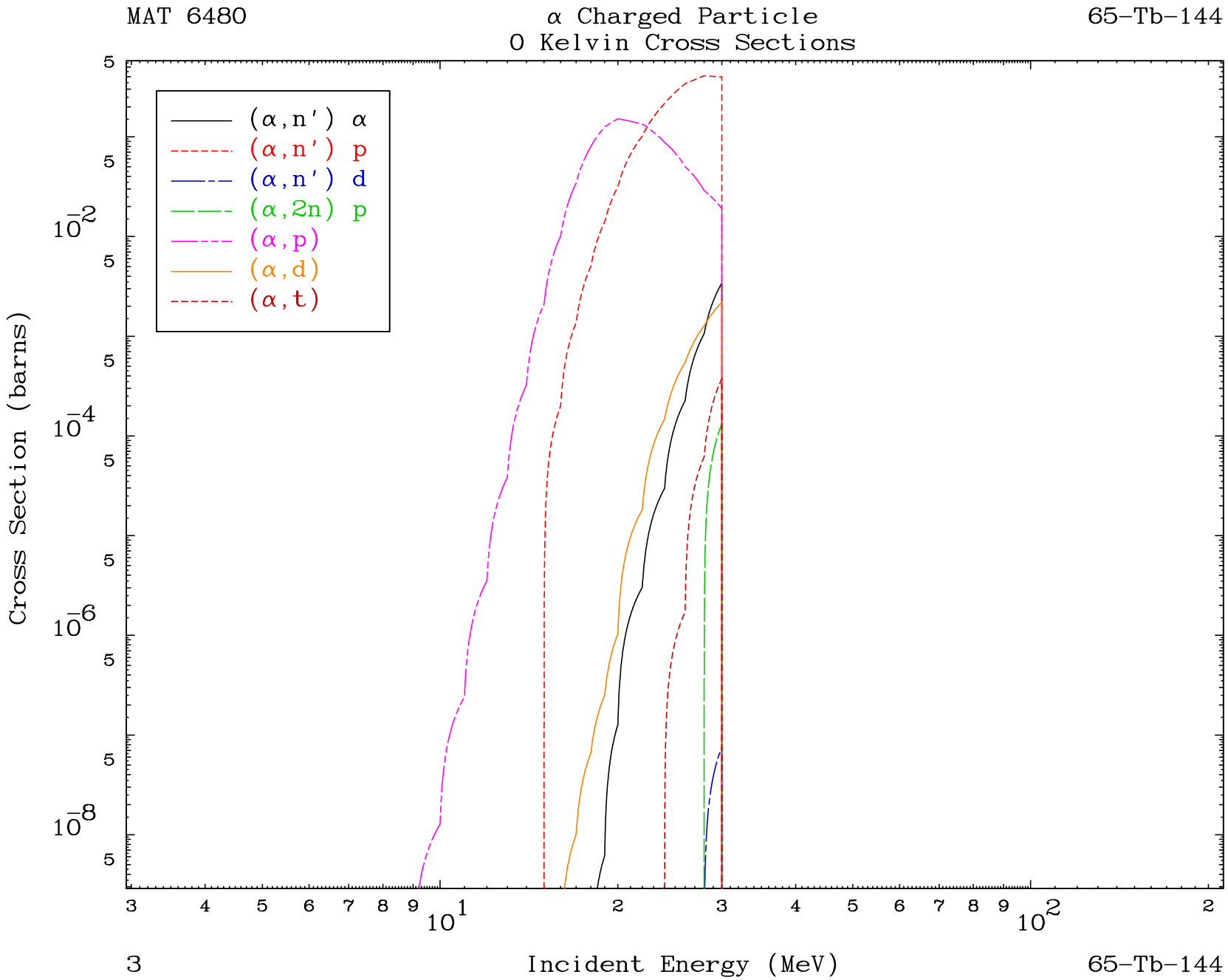
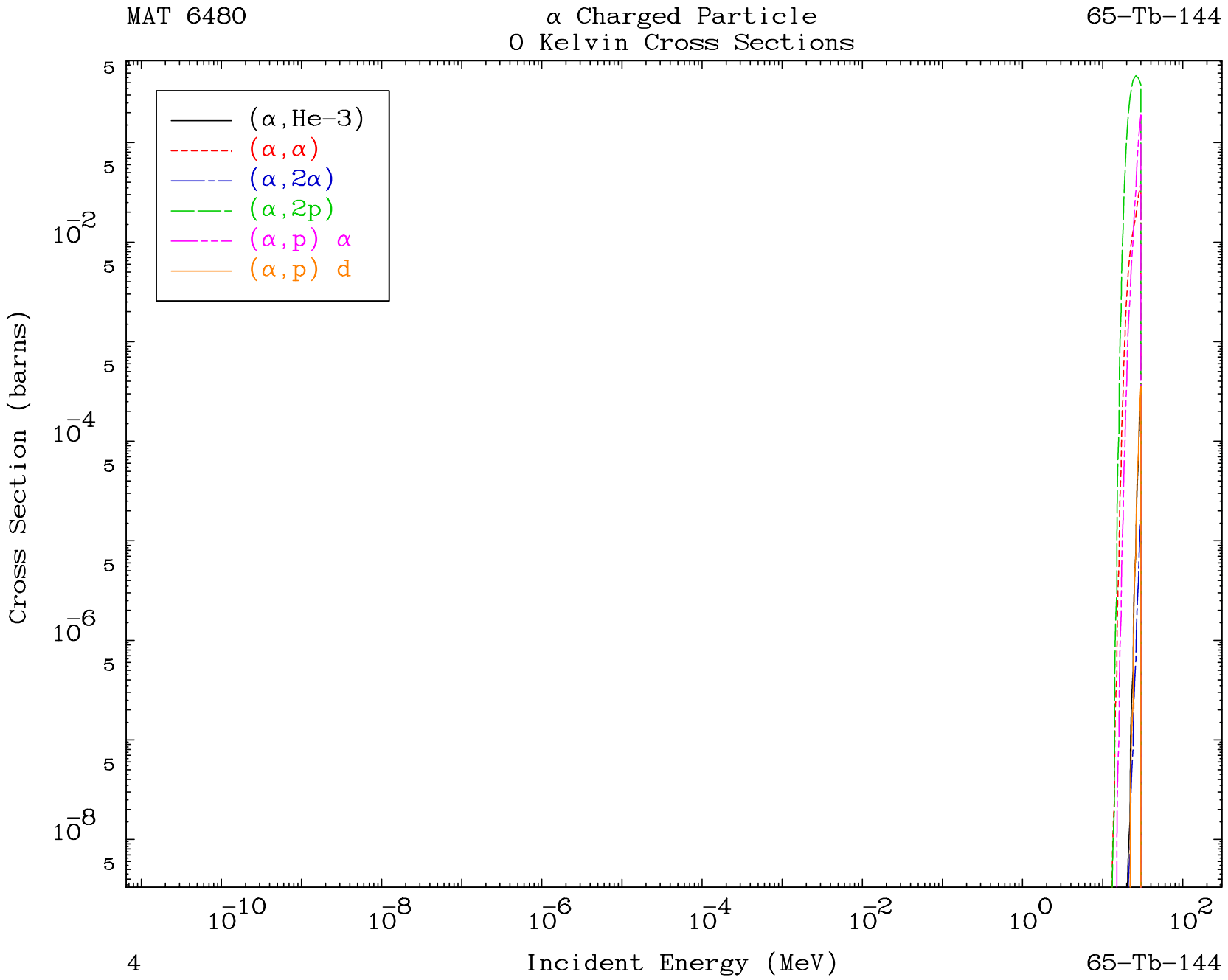
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

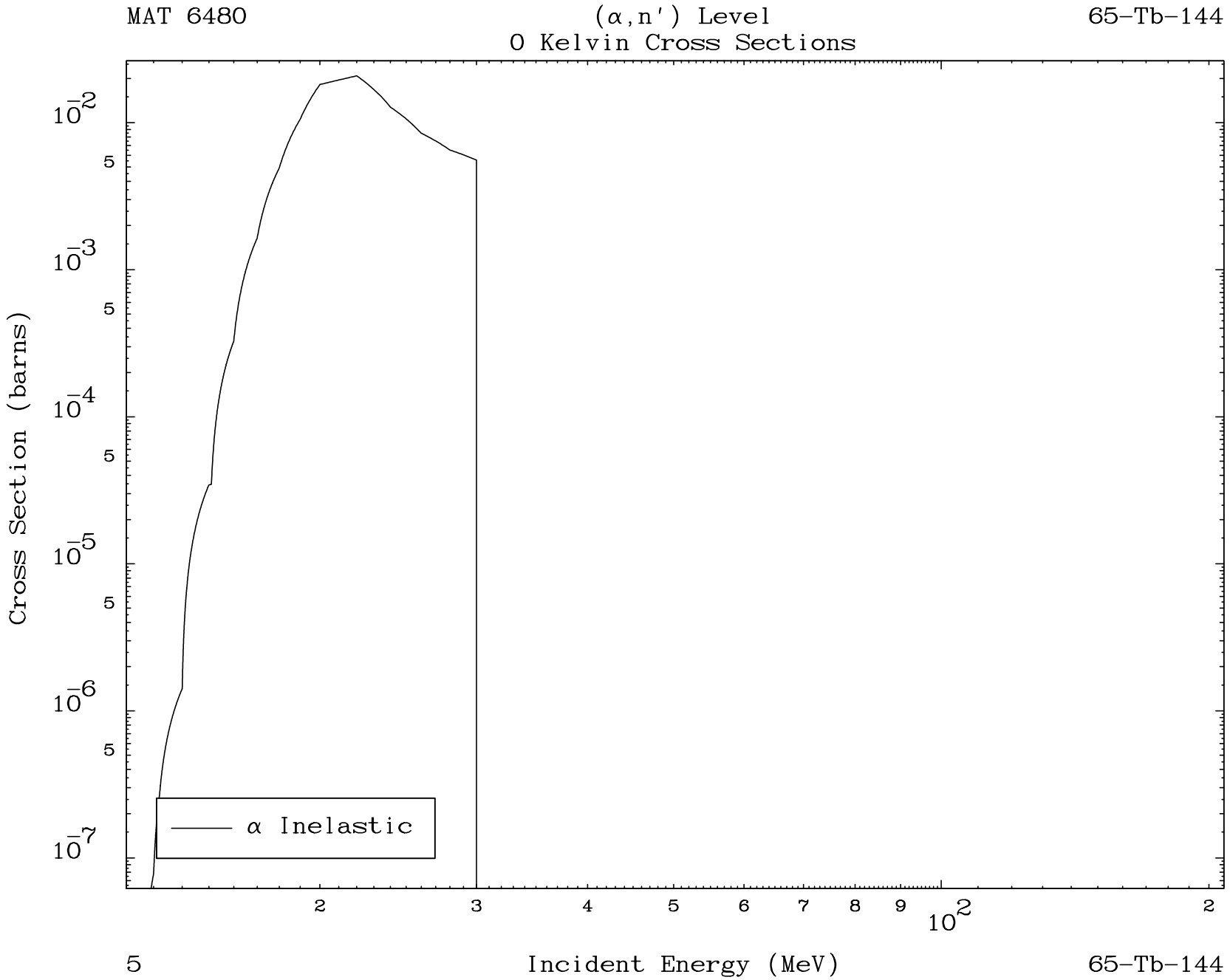
Press Mouse Button to Start

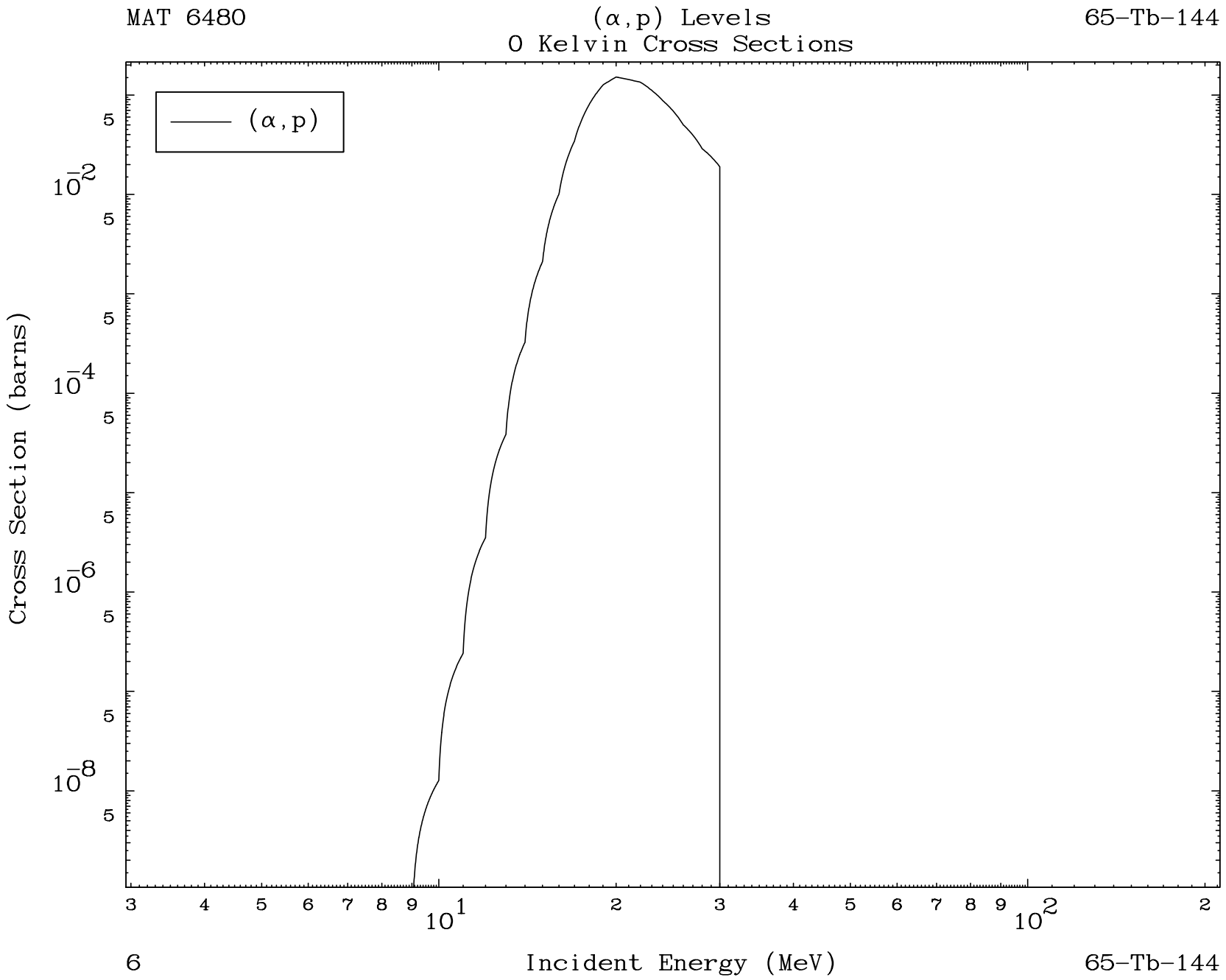

MAT 6480
α Major
65-Tb-144
0 Kelvin Cross Sections
α Elastic
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
65-Tb-144

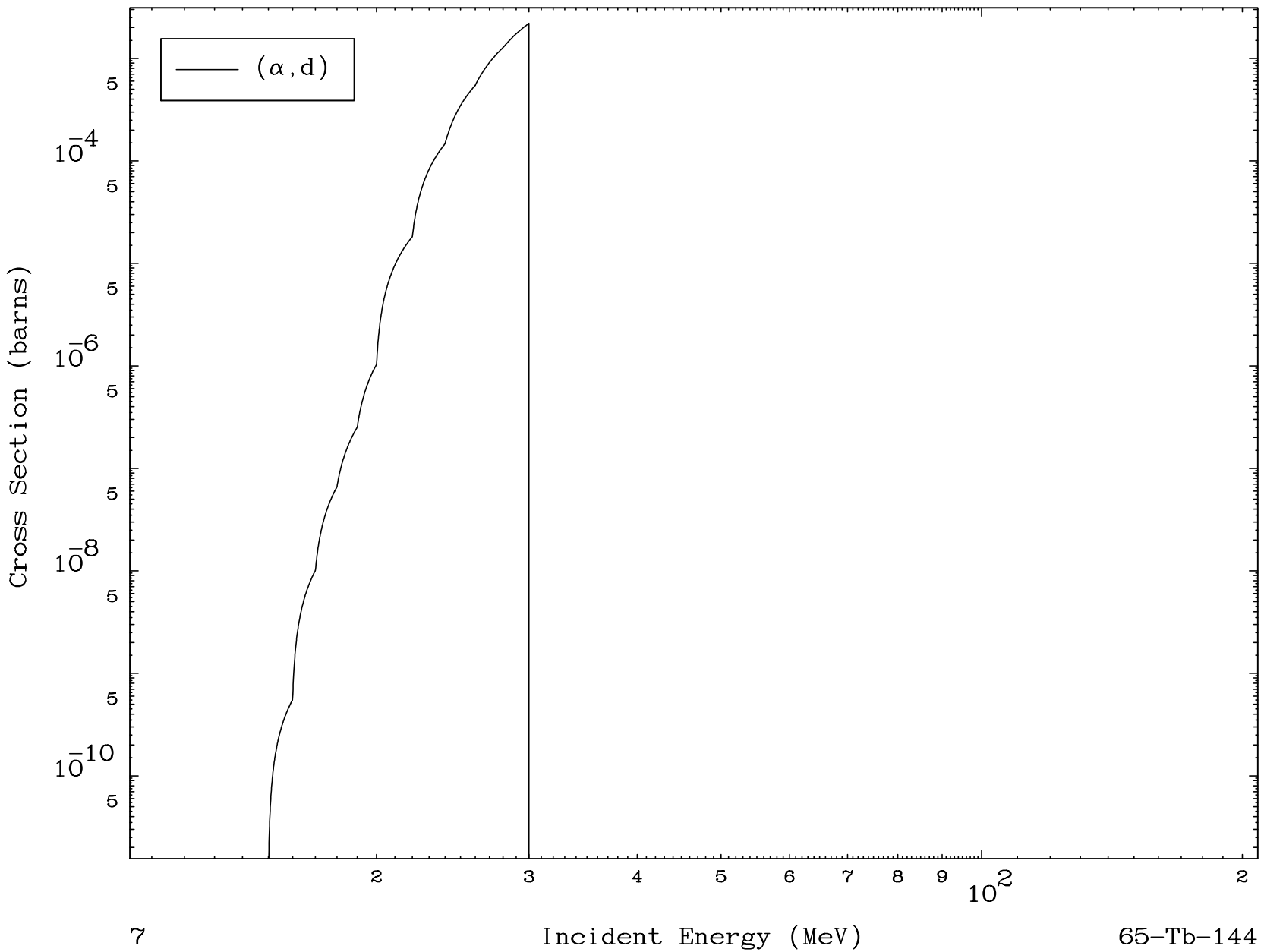

MAT 6480
α Neutron Production
0 Kelvin Cross Sections
65-Tb-144
(α,2n)
(α,n') α
(α,n') p
(α,n') d
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
65-Tb-144

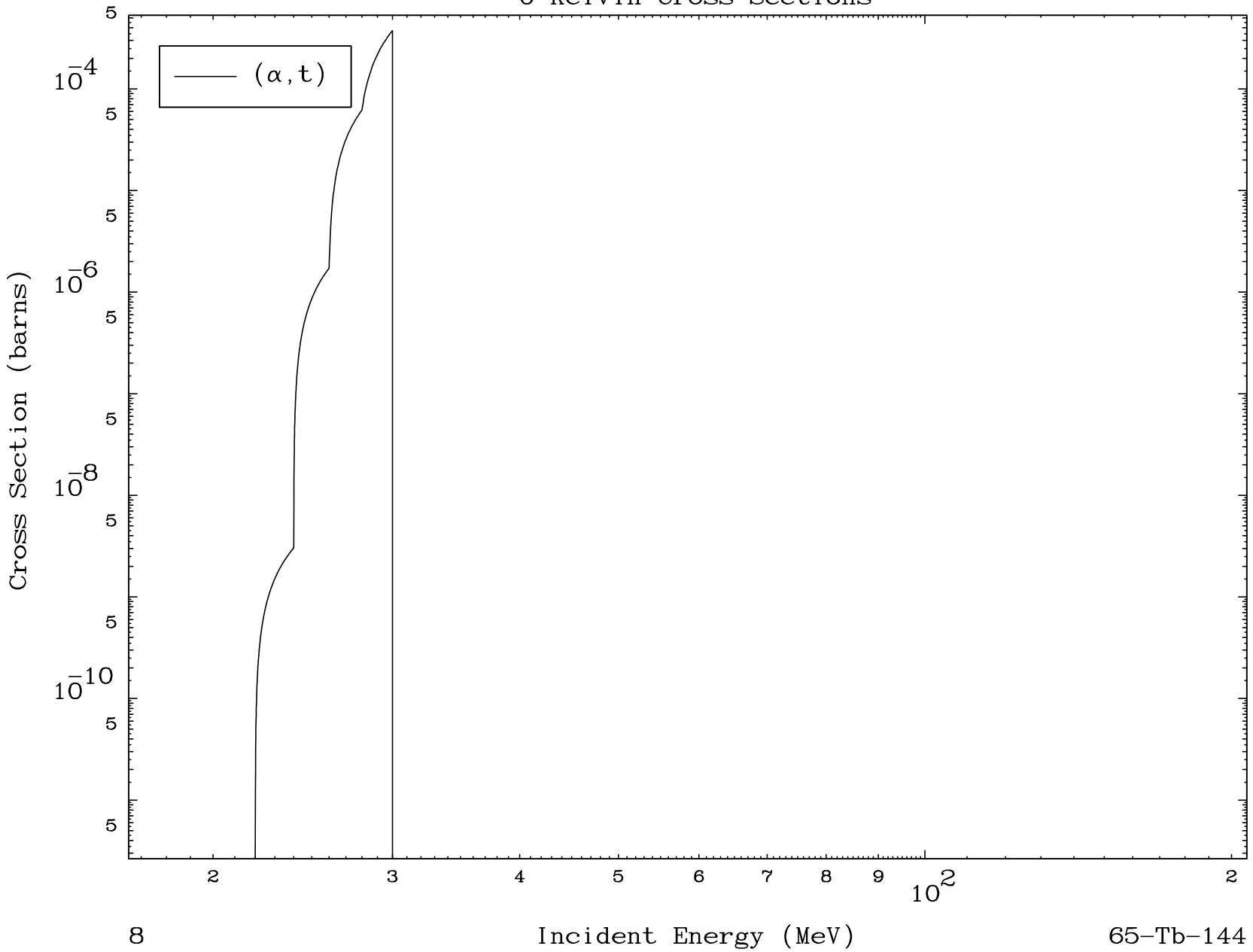

MAT 6480
α Charged Particle
0 Kelvin Cross Sections
65-Tb-144
(α,n') α
(α,n') p
(α,n') d
(α,2n) p
(α,p)
(α,d)
(α,t)
Cross Section (barns)
Incident Energy (MeV)
65-Tb-144
3

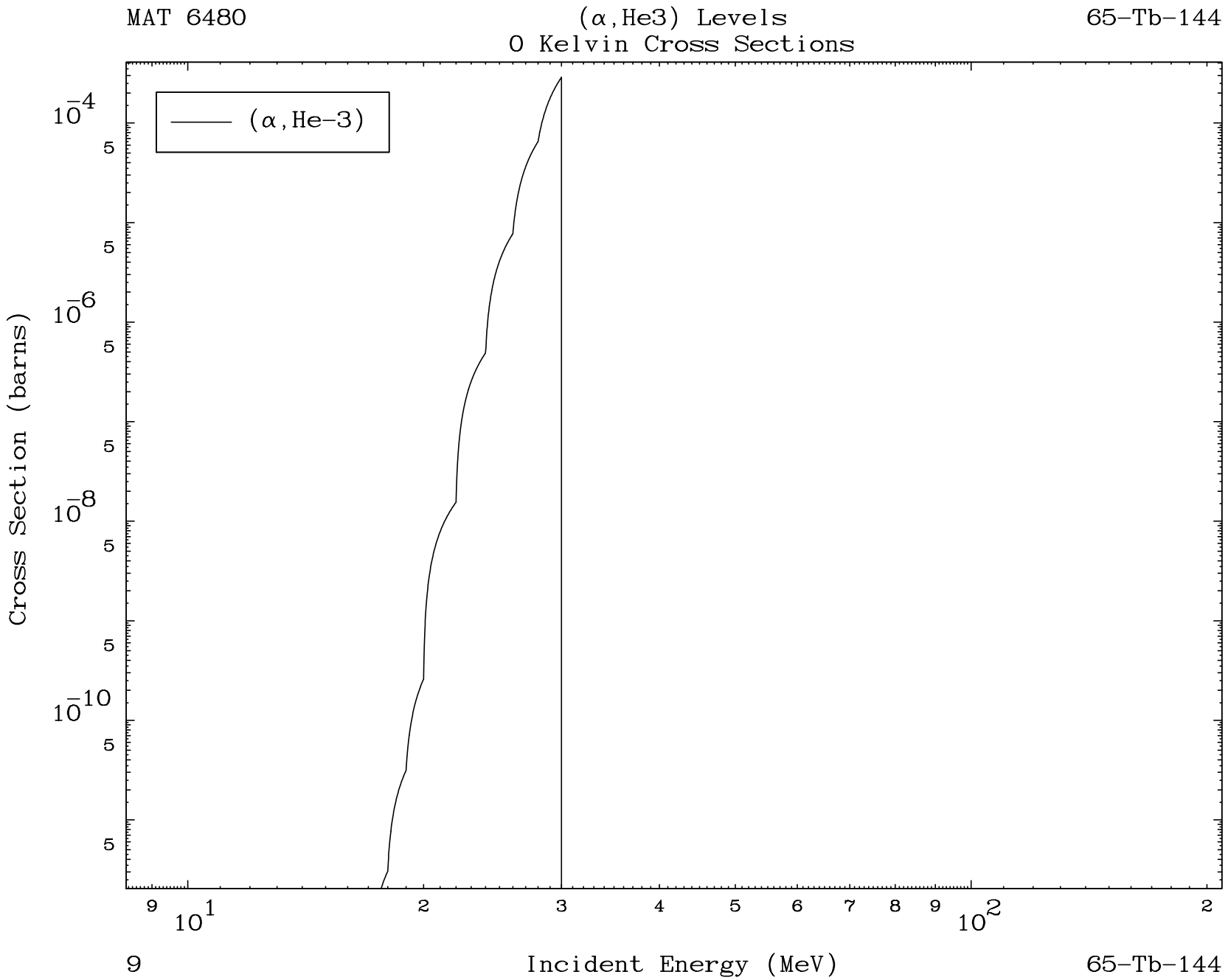

MAT 6480
α Charged Particle
0 Kelvin Cross Sections
65-Tb-144
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
Cross Section (barns)
Incident Energy (MeV)
4
65-Tb-144

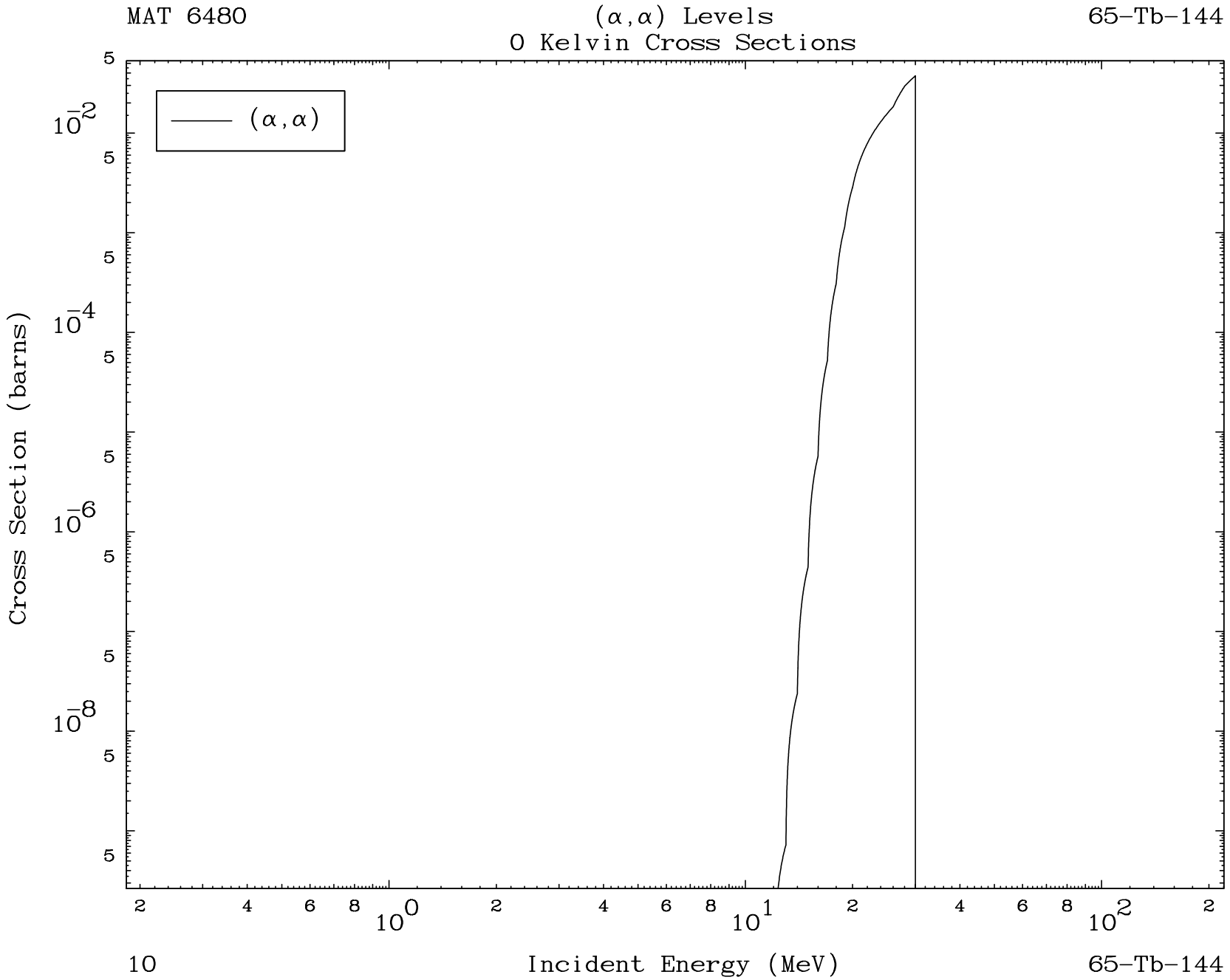

MAT 6480
(α,n') Level
65-Tb-144
0 Kelvin Cross Sections
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
5
10-7
α Inelastic
2
3
4
5
6
7
8
9
10 2
2
5
Incident Energy (MeV)
65-Tb-144

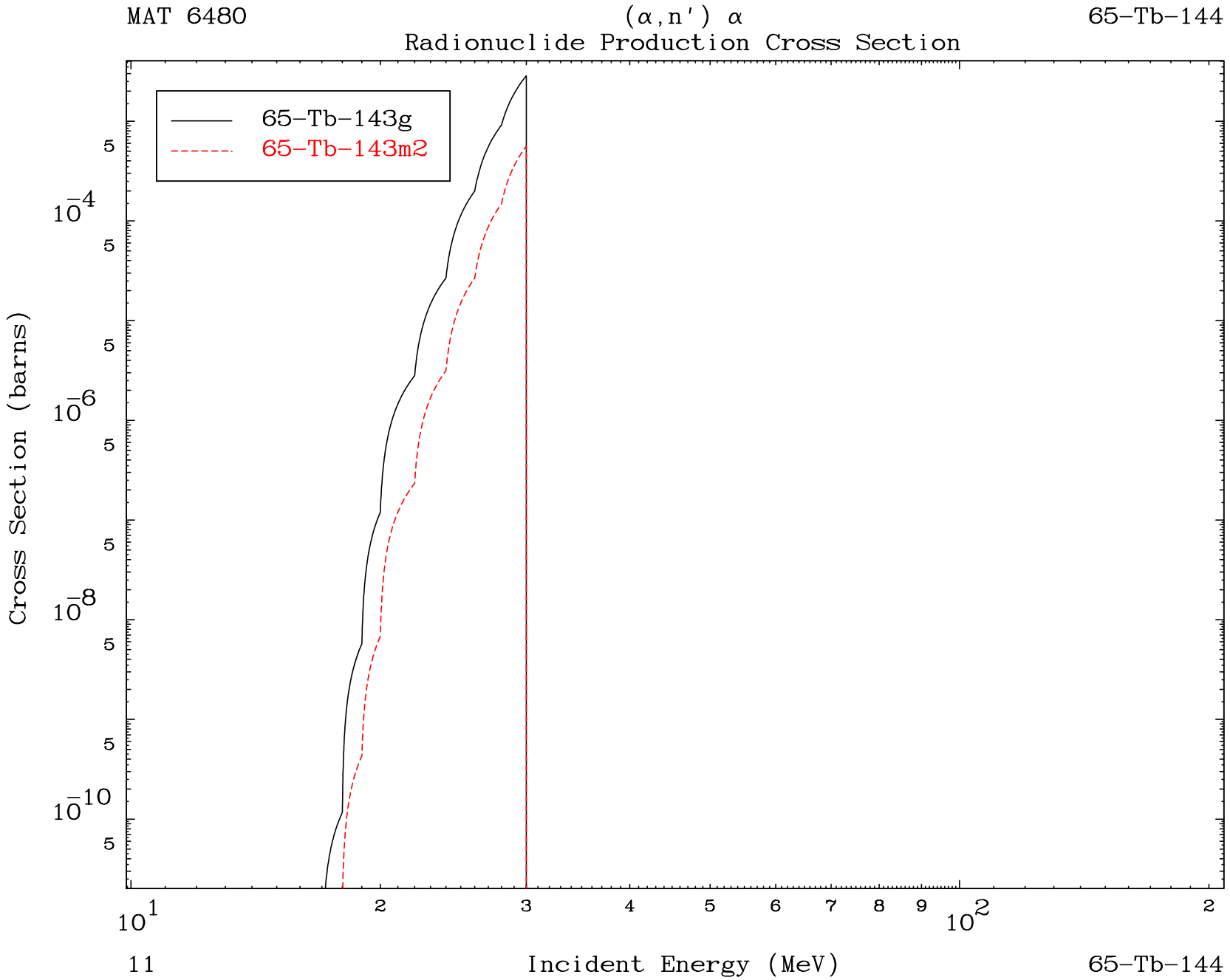

MAT 6480
(α,p) Levels
65-Tb-144
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
65-Tb-144

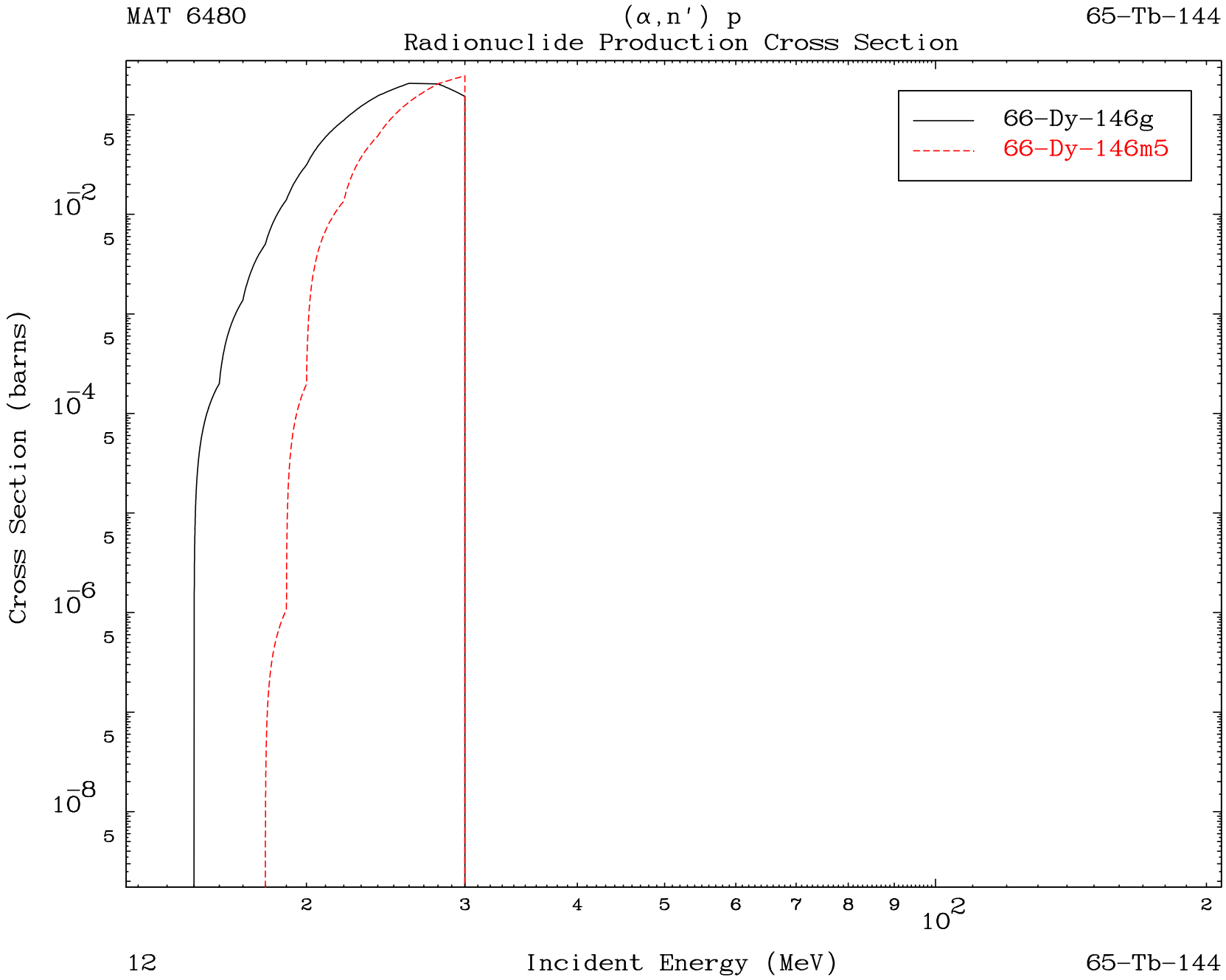

0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

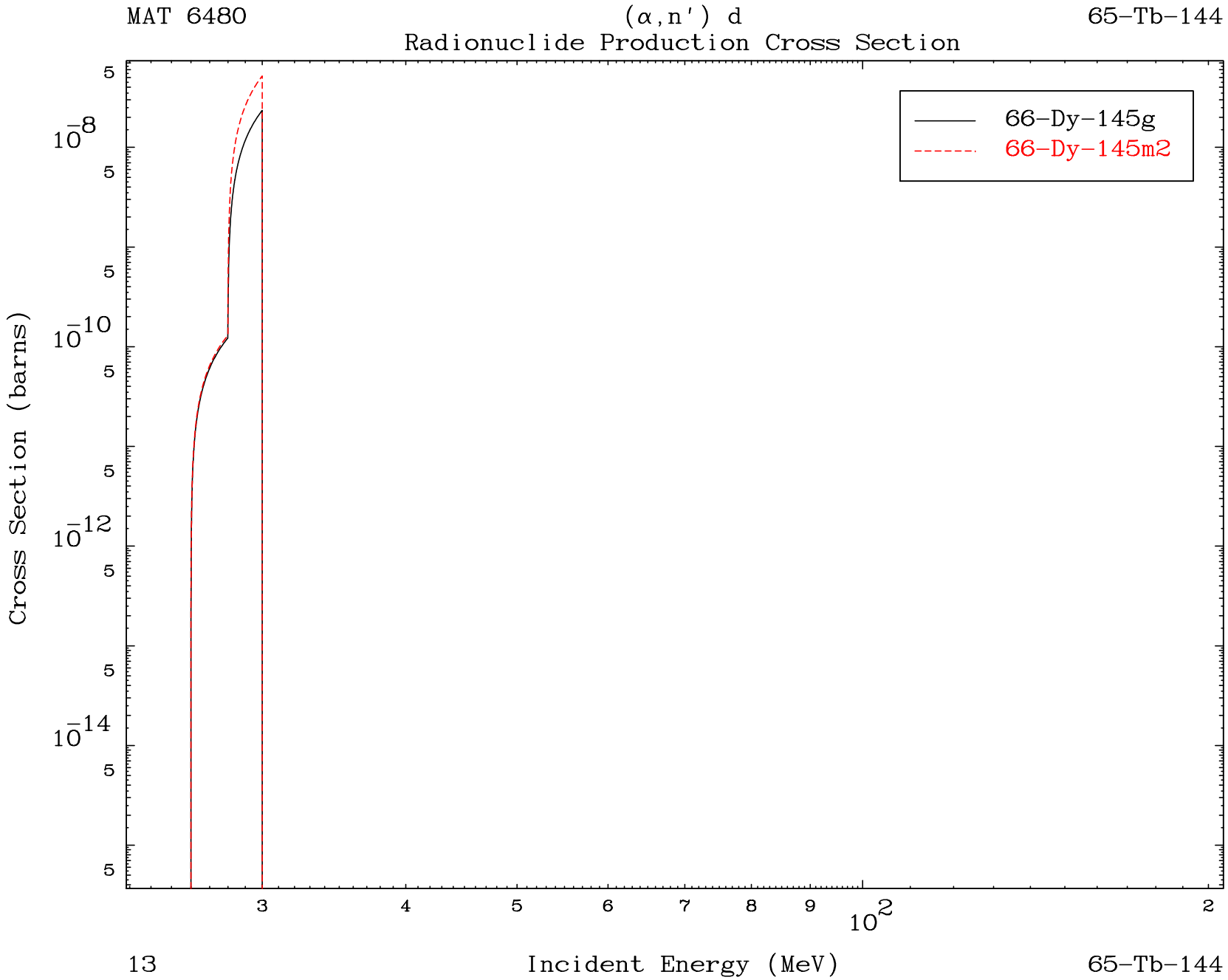

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

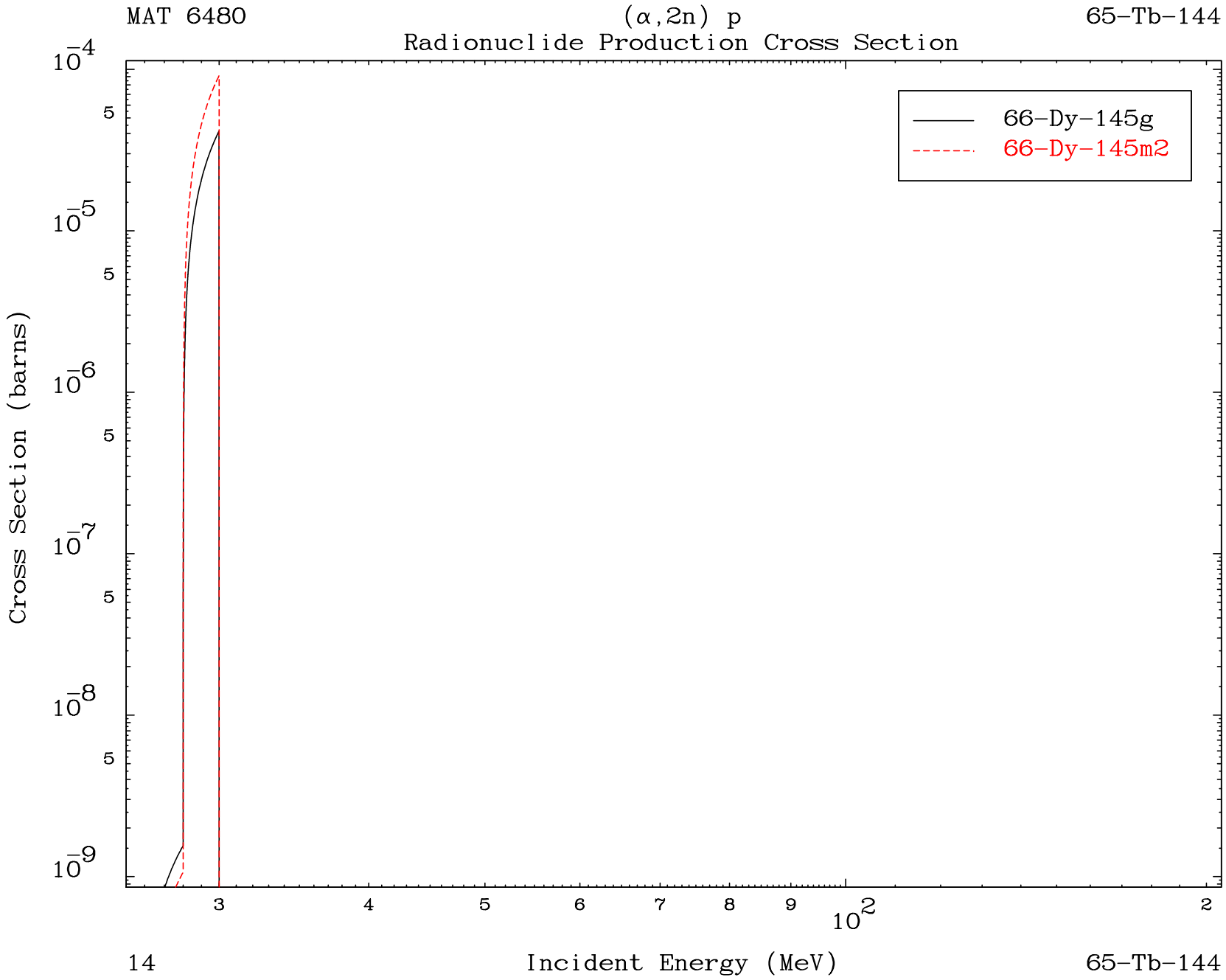

MAT 6480
(α,He3) Levels
65-Tb-144
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
65-Tb-144
9

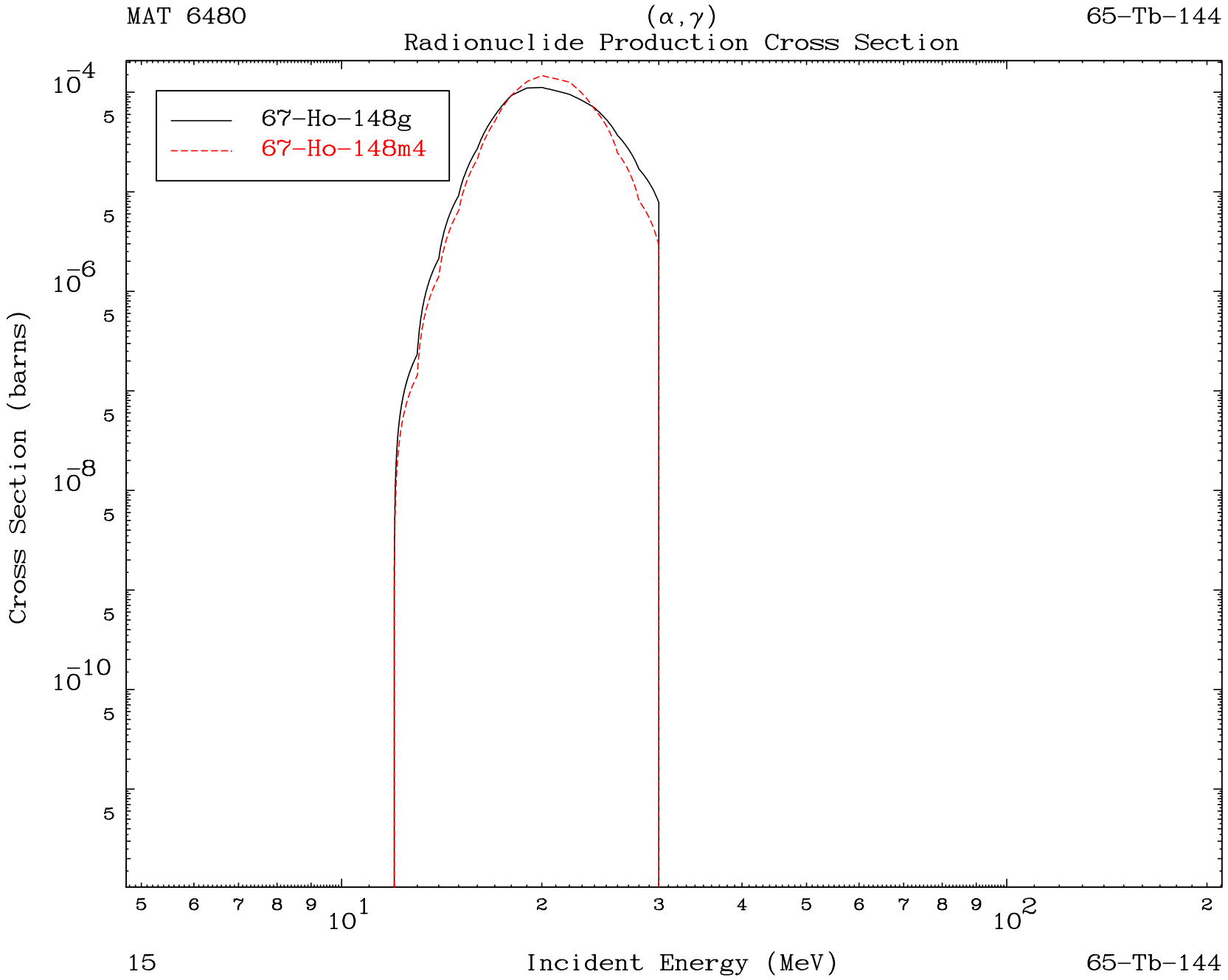

MAT 6480
(α,α) Levels
65-Tb-144
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
Incident Energy (MeV)
65-Tb-144

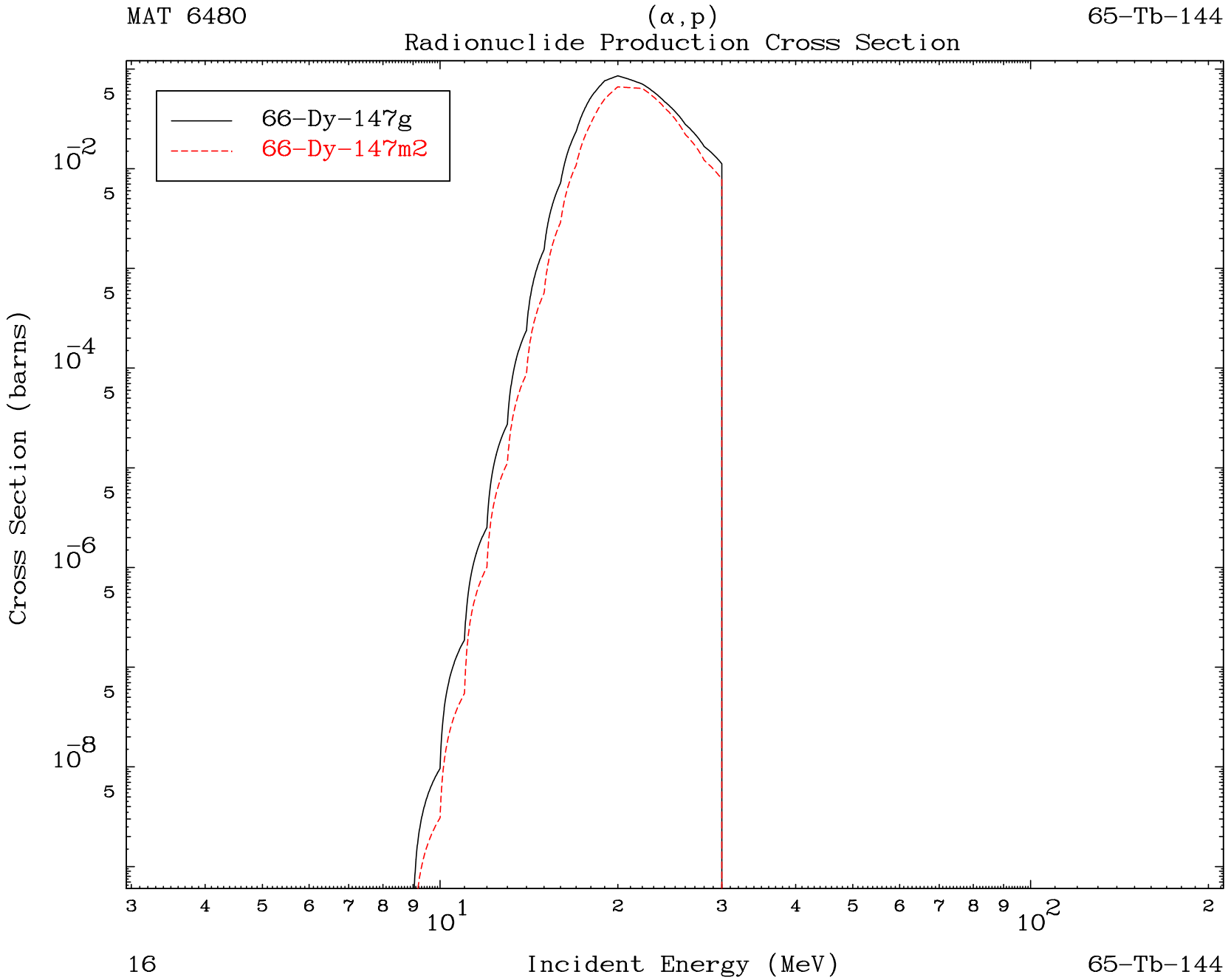

MAT 6480
(α,n') α
65-Tb-144
Radionuclide Production Cross Section
65-Tb-143g
65-Tb-143m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^1
2
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
65-Tb-144

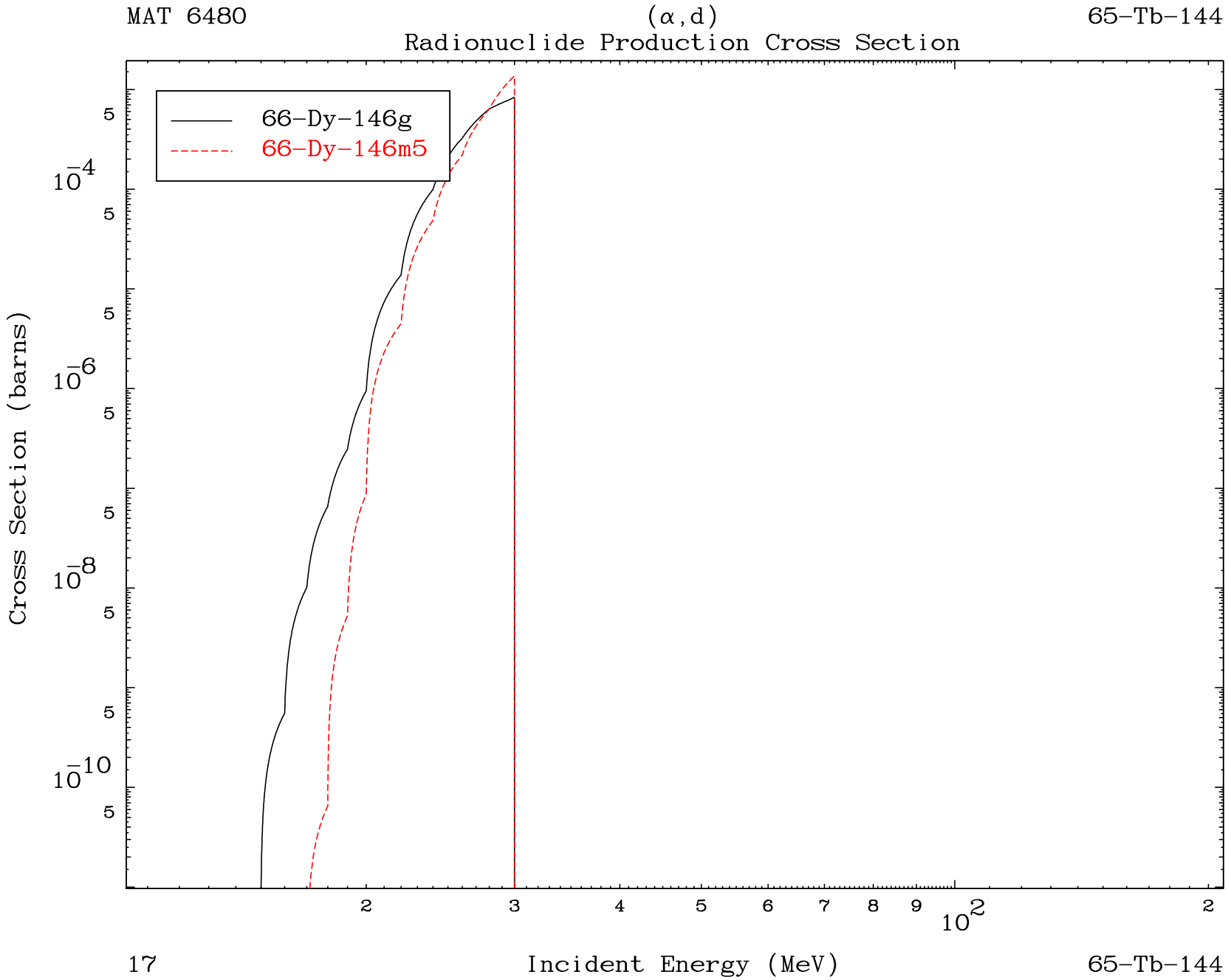

MAT 6480
(α,n') p
65-Tb-144
Radionuclide Production Cross Section
66-Dy-146g
66-Dy-146m5
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
65-Tb-144

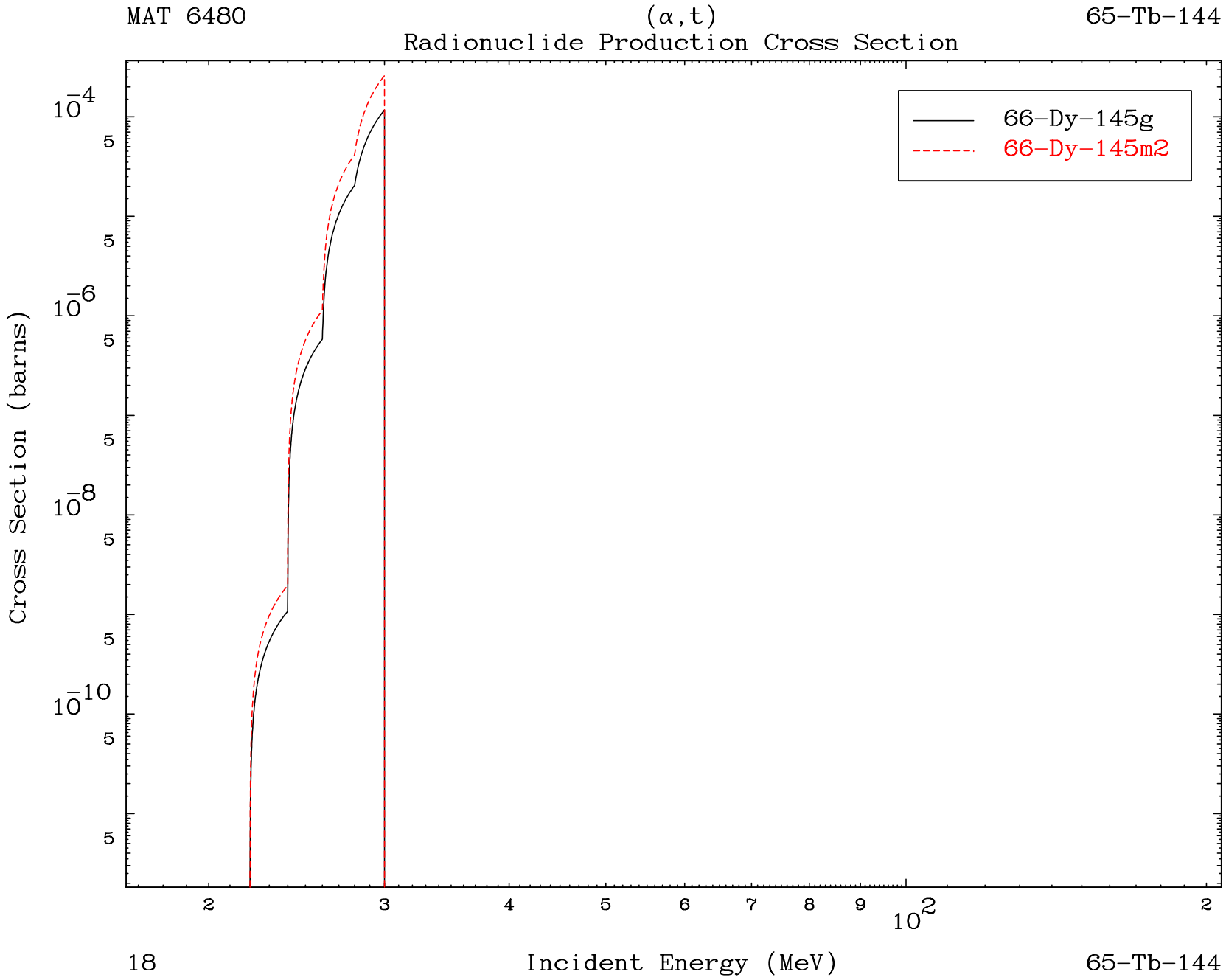

MAT 6480
(α,n') d
65-Tb-144
Radionuclide Production Cross Section
66-Dy-145g
66-Dy-145m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
65-Tb-144

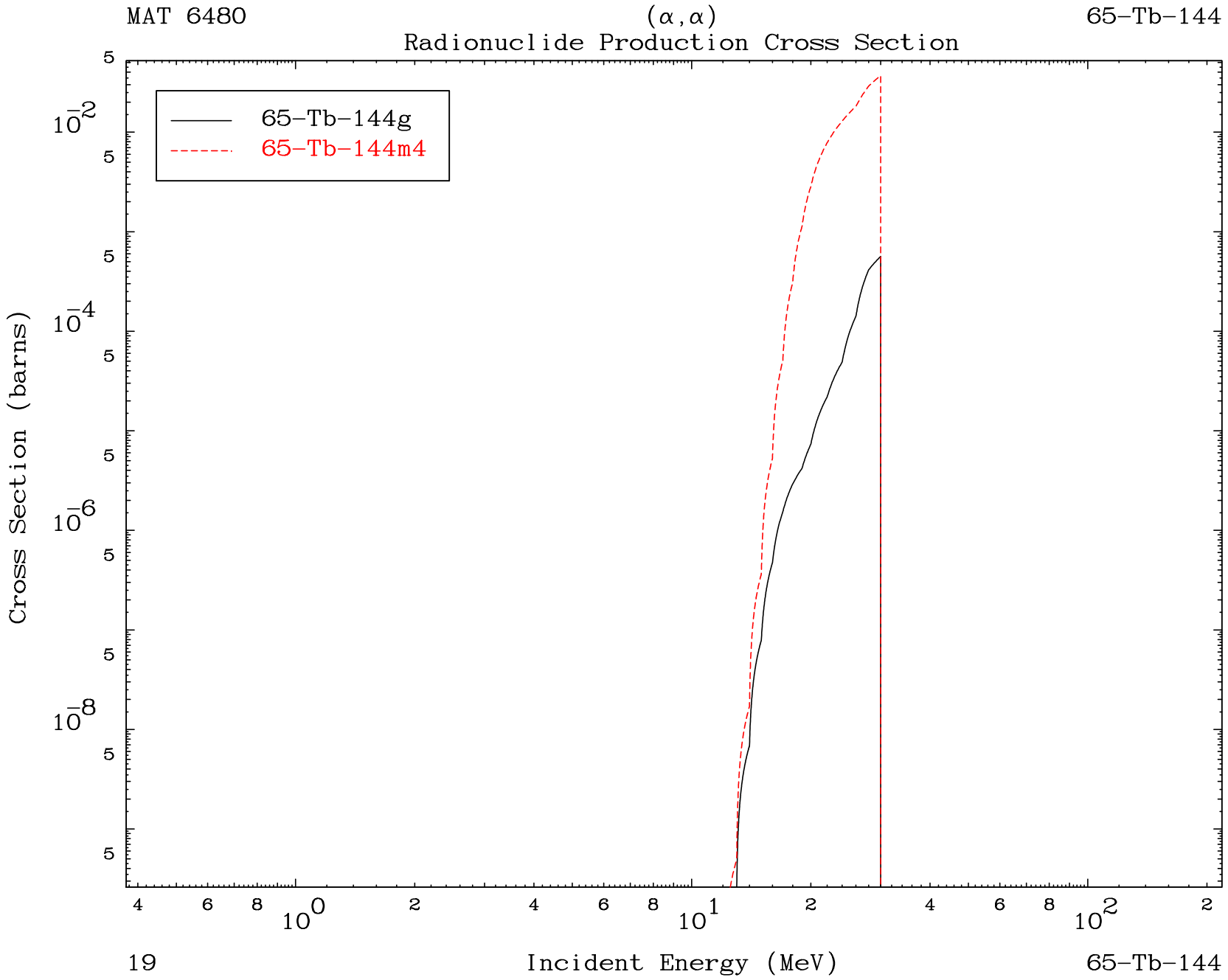

MAT 6480
(α,2n) p
65-Tb-144
Radionuclide Production Cross Section
66-Dy-145g
66-Dy-145m2
Cross Section (barns)
Incident Energy (MeV)
14
65-Tb-144

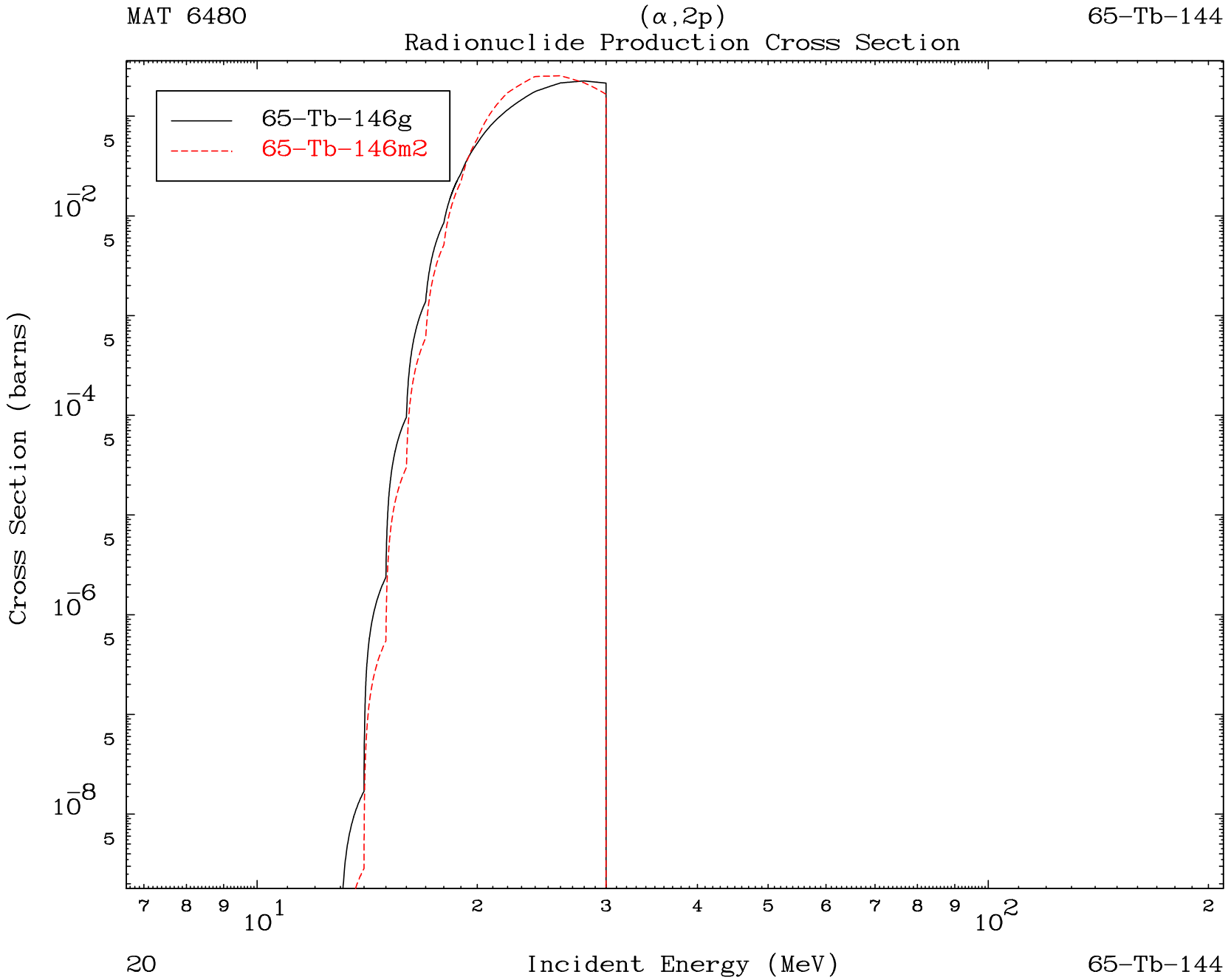

MAT 6480
(α,γ)
65-Tb-144
Radionuclide Production Cross Section
67-Ho-148g
67-Ho-148m4
Cross Section (barns)
Incident Energy (MeV)
15
65-Tb-144

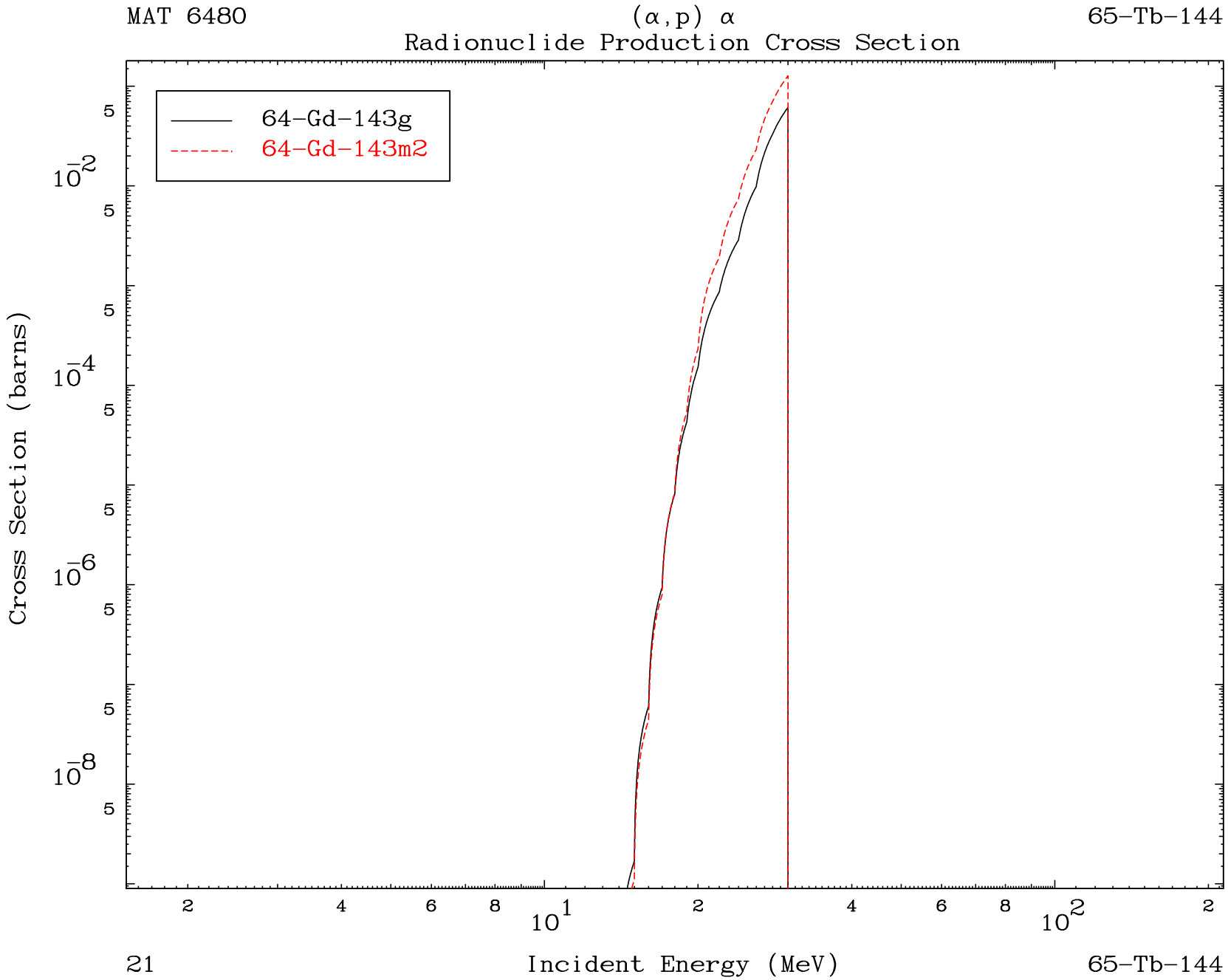

MAT 6480
(α,p)
65-Tb-144
Radionuclide Production Cross Section
66-Dy-147g
66-Dy-147m2
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
16
Incident Energy (MeV)
65-Tb-144

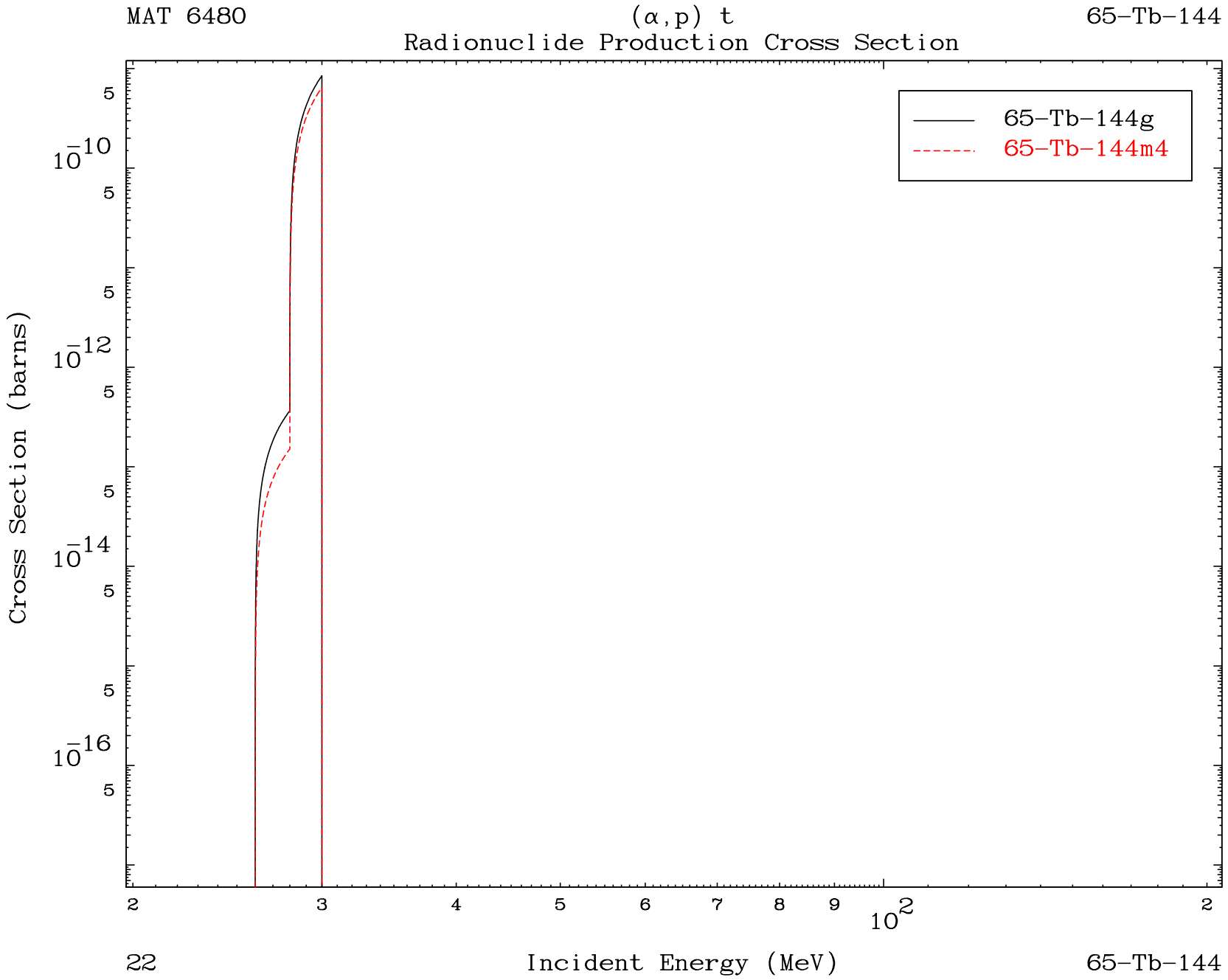

MAT 6480
(α,d)
65-Tb-144
Radionuclide Production Cross Section
66-Dy-146g
66-Dy-146m5
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
65-Tb-144


MAT 6480
(α,t)
65-Tb-144
Radionuclide Production Cross Section
66-Dy-145g
66-Dy-145m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
65-Tb-144


MAT 6480
(α,α)
65-Tb-144
Radionuclide Production Cross Section
65-Tb-144g
65-Tb-144m4
Cross Section (barns)
Incident Energy (MeV)
19
65-Tb-144


MAT 6480
(α,2p)
65-Tb-144
Radionuclide Production Cross Section
65-Tb-146g
65-Tb-146m2
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)
20
65-Tb-144


MAT 6480
(α,p) α
65-Tb-144
Radionuclide Production Cross Section
64-Gd-143g
64-Gd-143m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
101
102
21
Incident Energy (MeV)
65-Tb-144


MAT 6480
(α,p) t
65-Tb-144
Radionuclide Production Cross Section
65-Tb-144g
65-Tb-144m4
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
22
Incident Energy (MeV)
65-Tb-144