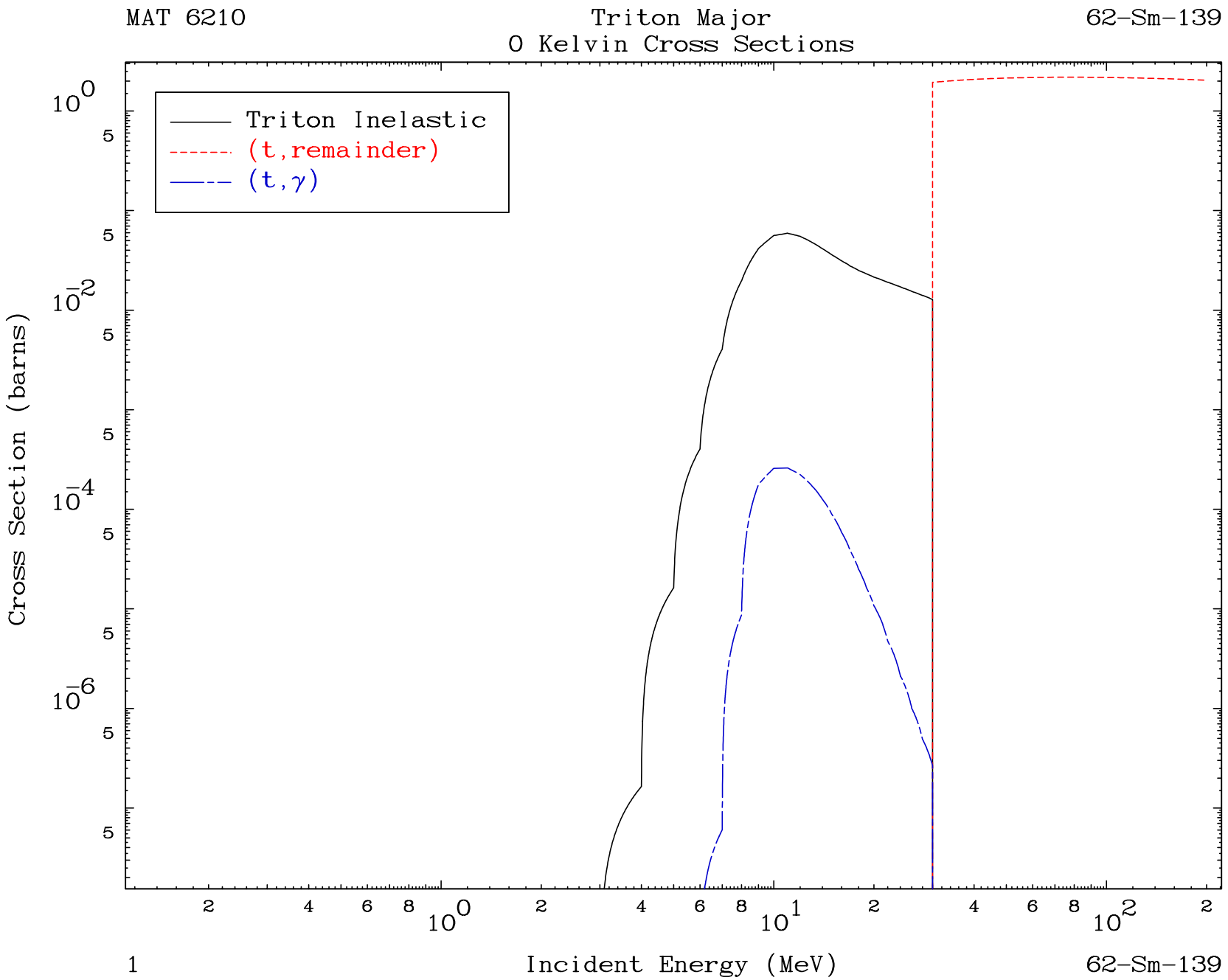
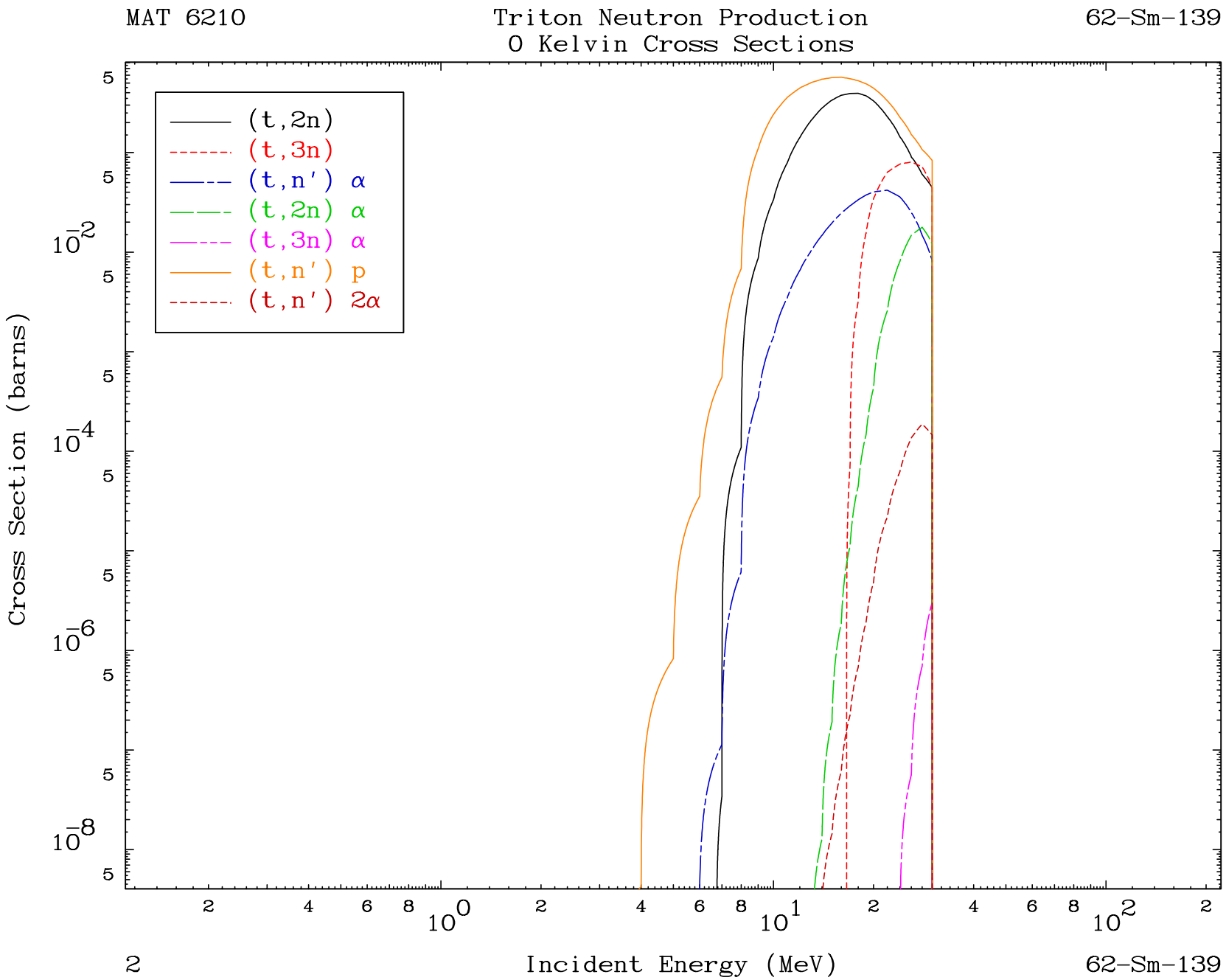
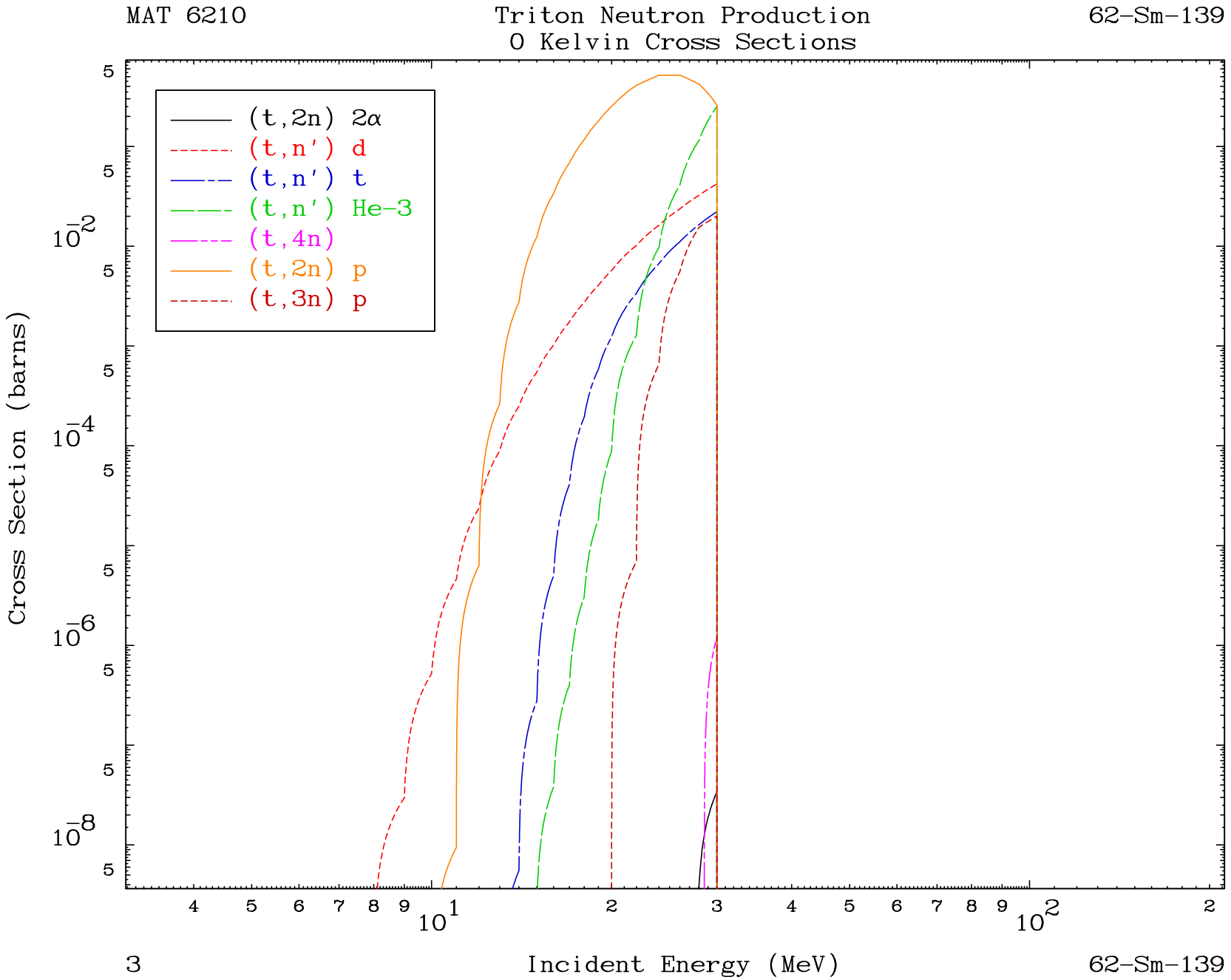
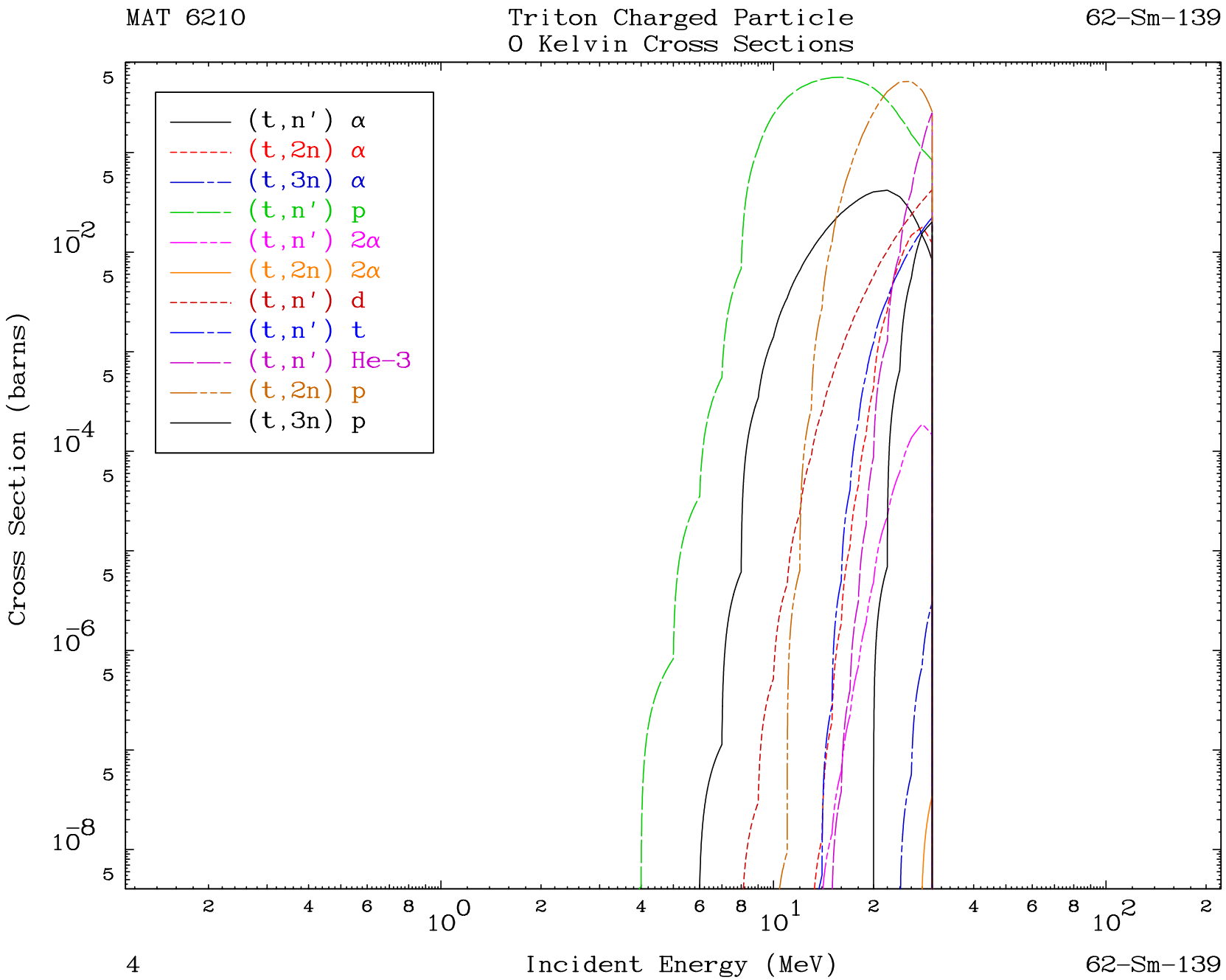
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

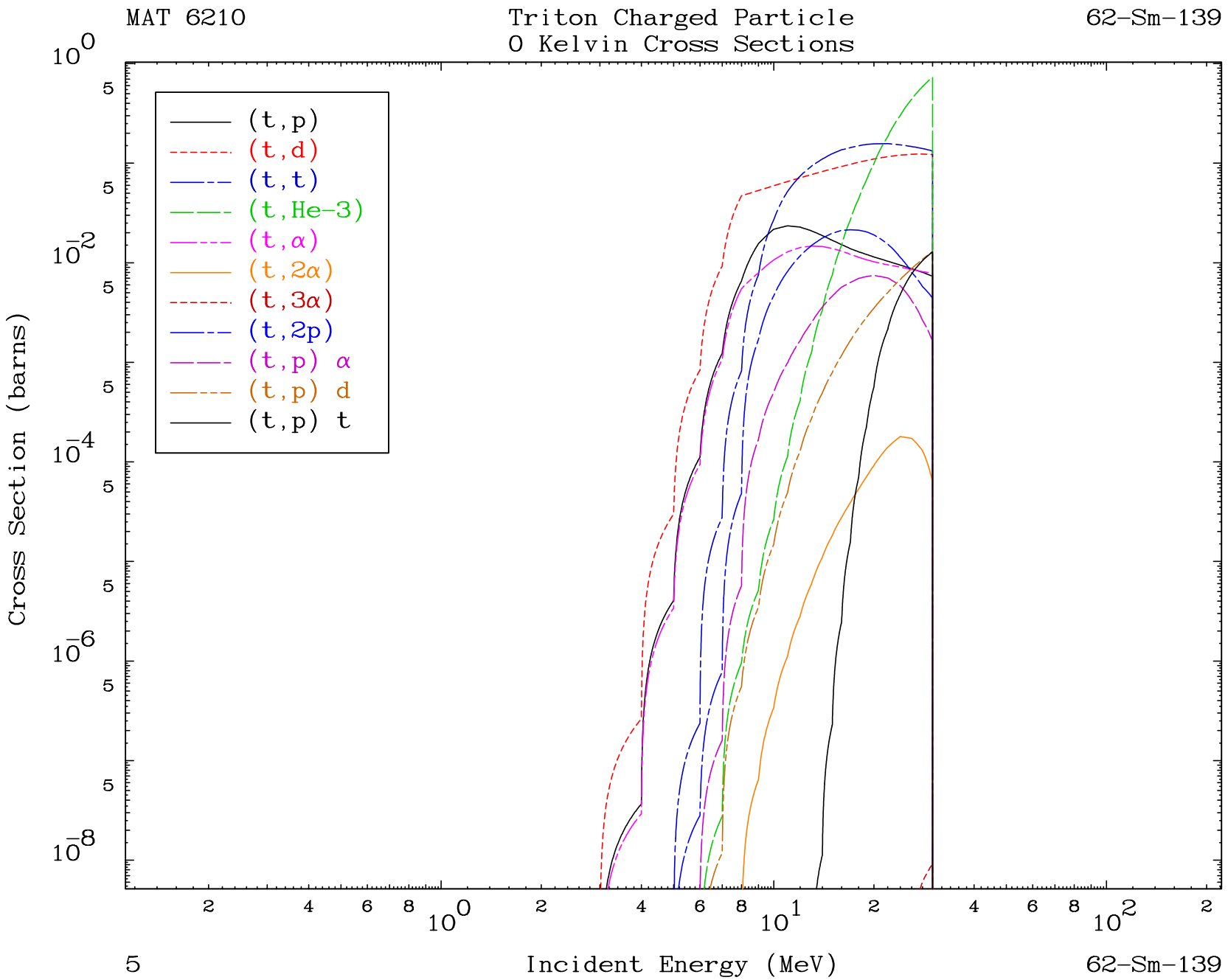
Press Mouse Button to Start

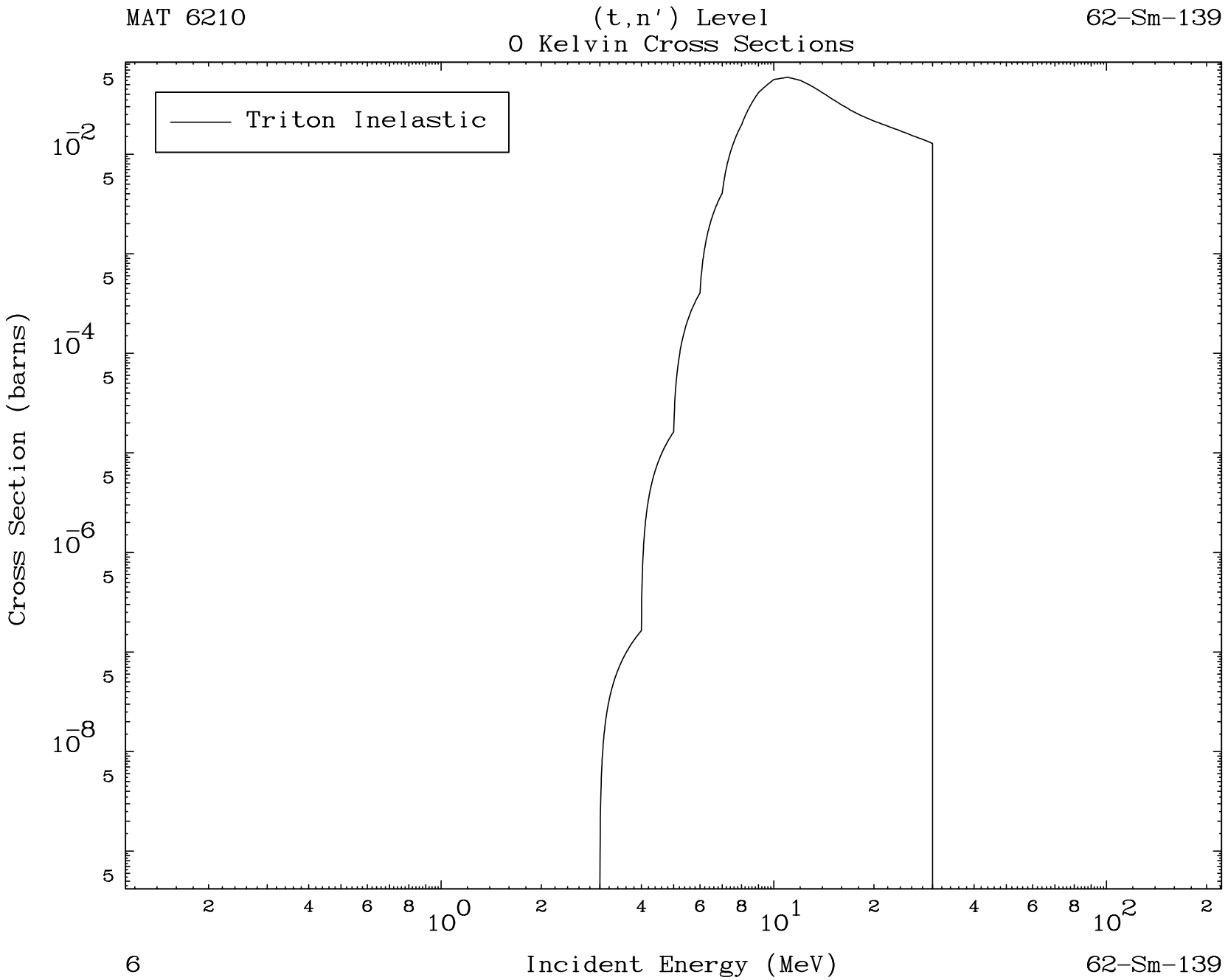

MAT 6210
Triton Major
62-Sm-139
0 Kelvin Cross Sections
Triton Inelastic
(t,remainder)
(t,γ)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-139
1

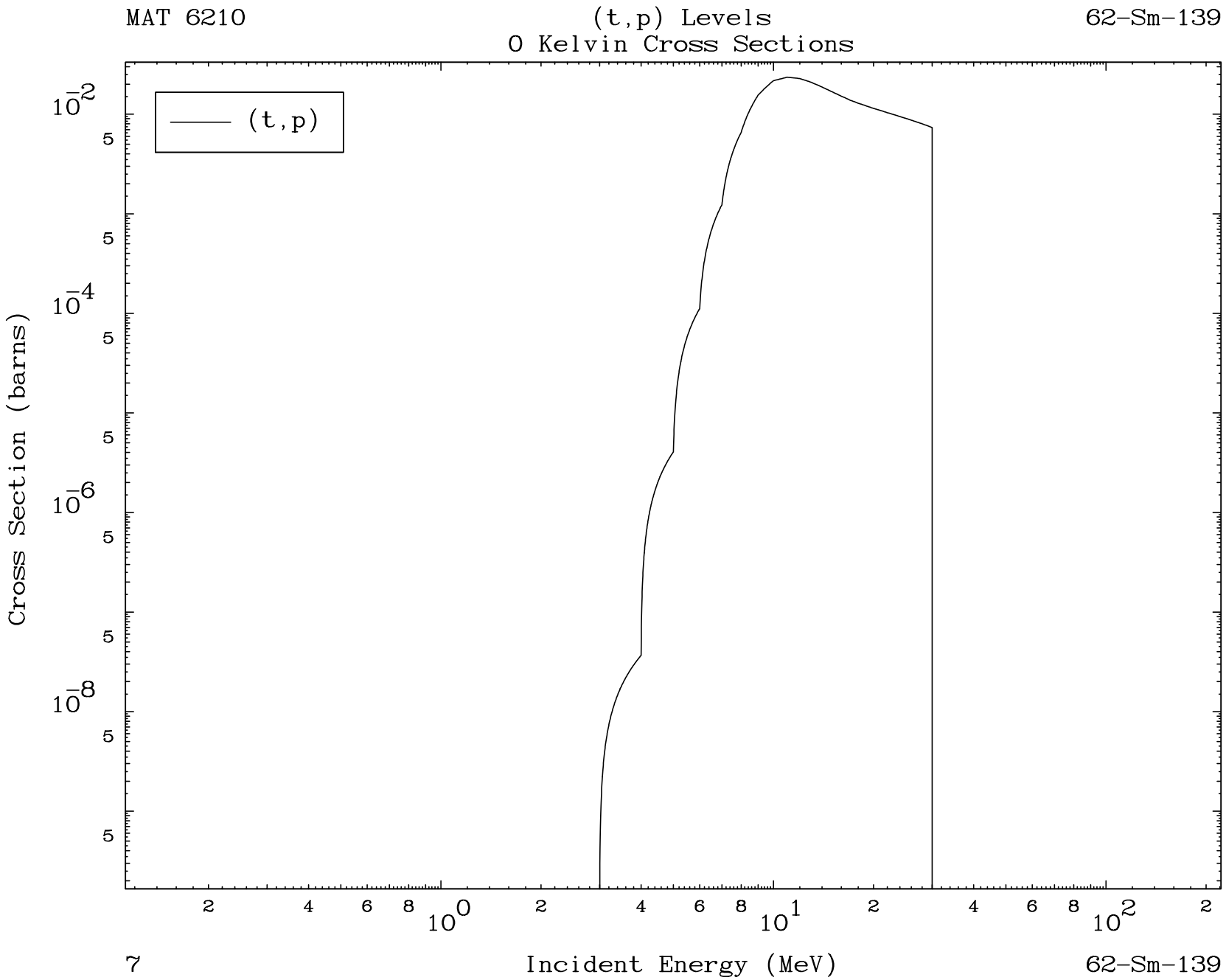

MAT 6210
Triton Neutron Production
0 Kelvin Cross Sections
62-Sm-139
(t,2n)
(t,3n)
(t,n') α
(t,2n) α
(t,3n) α
(t,n') p
(t,n') 2α
Cross Section (barns)
Incident Energy (MeV)
62-Sm-139
2

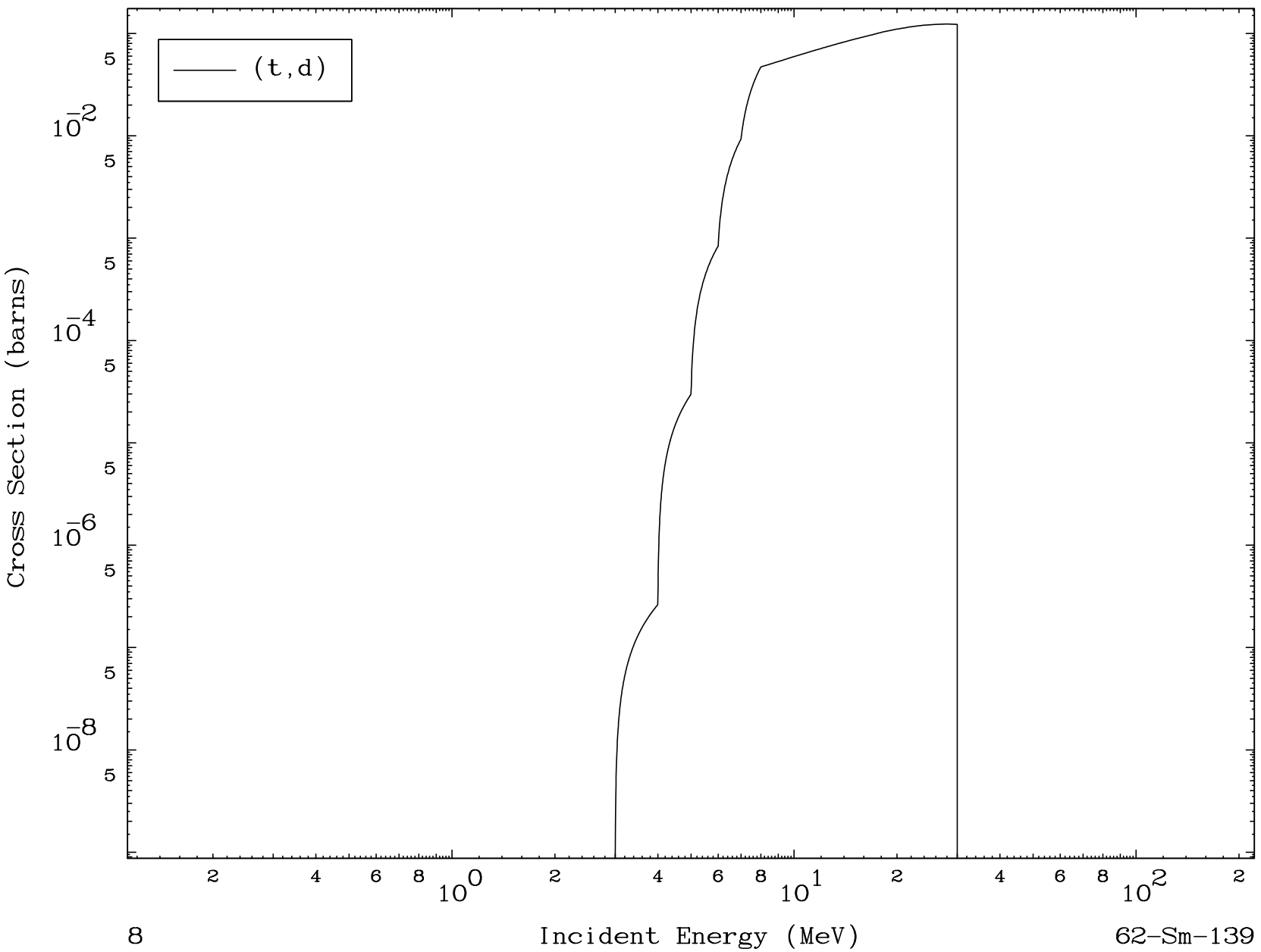

MAT 6210
Triton Neutron Production
0 Kelvin Cross Sections
62-Sm-139
(t,2n) 2α
(t,n') d
(t,n') t
(t,n') He-3
(t,4n)
(t,2n) p
(t,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
62-Sm-139

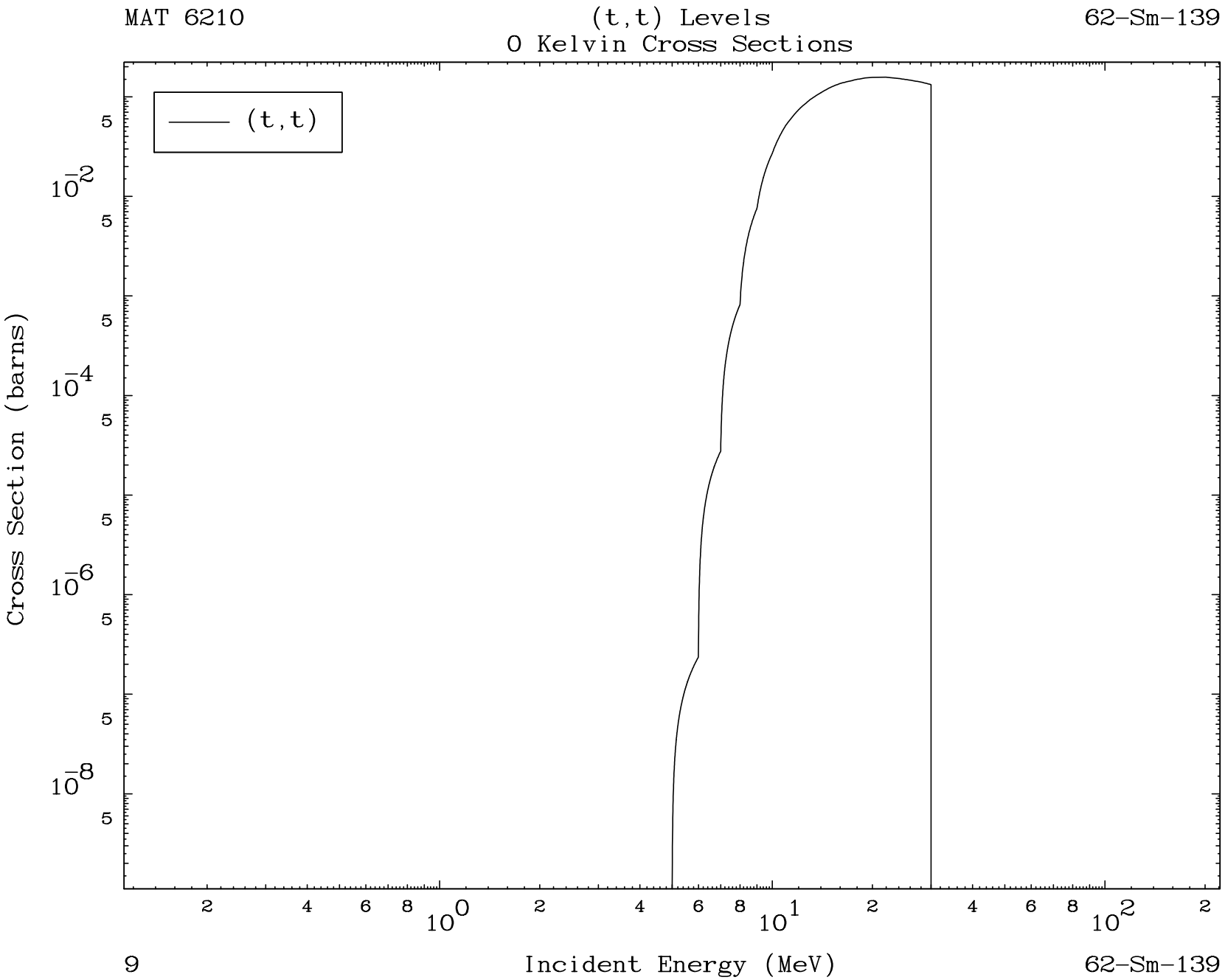

MAT 6210
Triton Charged Particle
0 Kelvin Cross Sections
62-Sm-139
(t,n') α
(t,2n) α
(t,3n) α
(t,n') p
(t,n') 2α
(t,2n) 2α
(t,n') d
(t,n') t
(t,n') He-3
(t,2n) p
(t,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
62-Sm-139

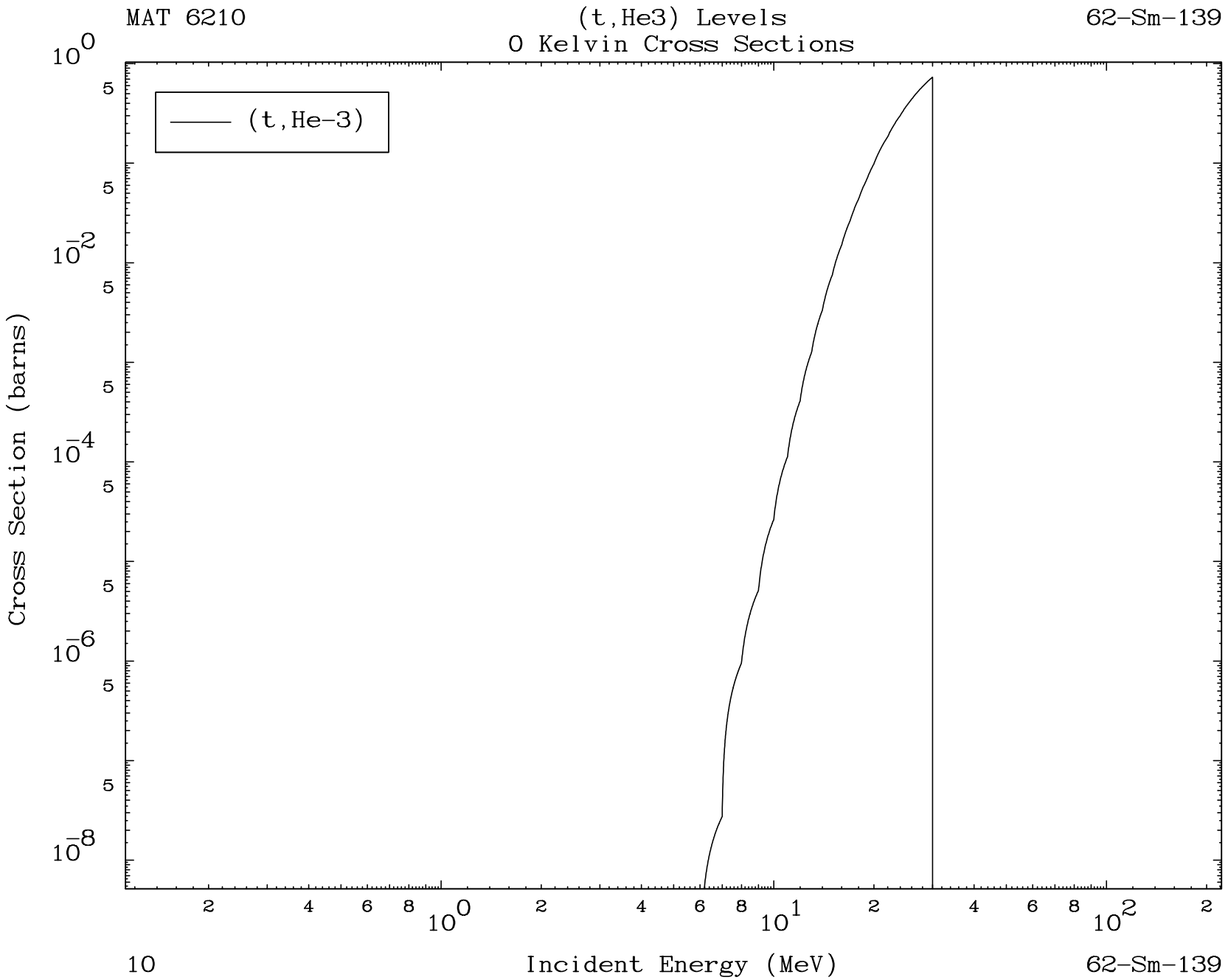

MAT 6210
Triton Charged Particle
0 Kelvin Cross Sections
62-Sm-139
(t,p)
(t,d)
(t,t)
(t,He-3)
(t,α)
(t,2α)
(t,3α)
(t,2p)
(t,p) α
(t,p) d
(t,p) t
Cross Section (barns)
Incident Energy (MeV)
62-Sm-139

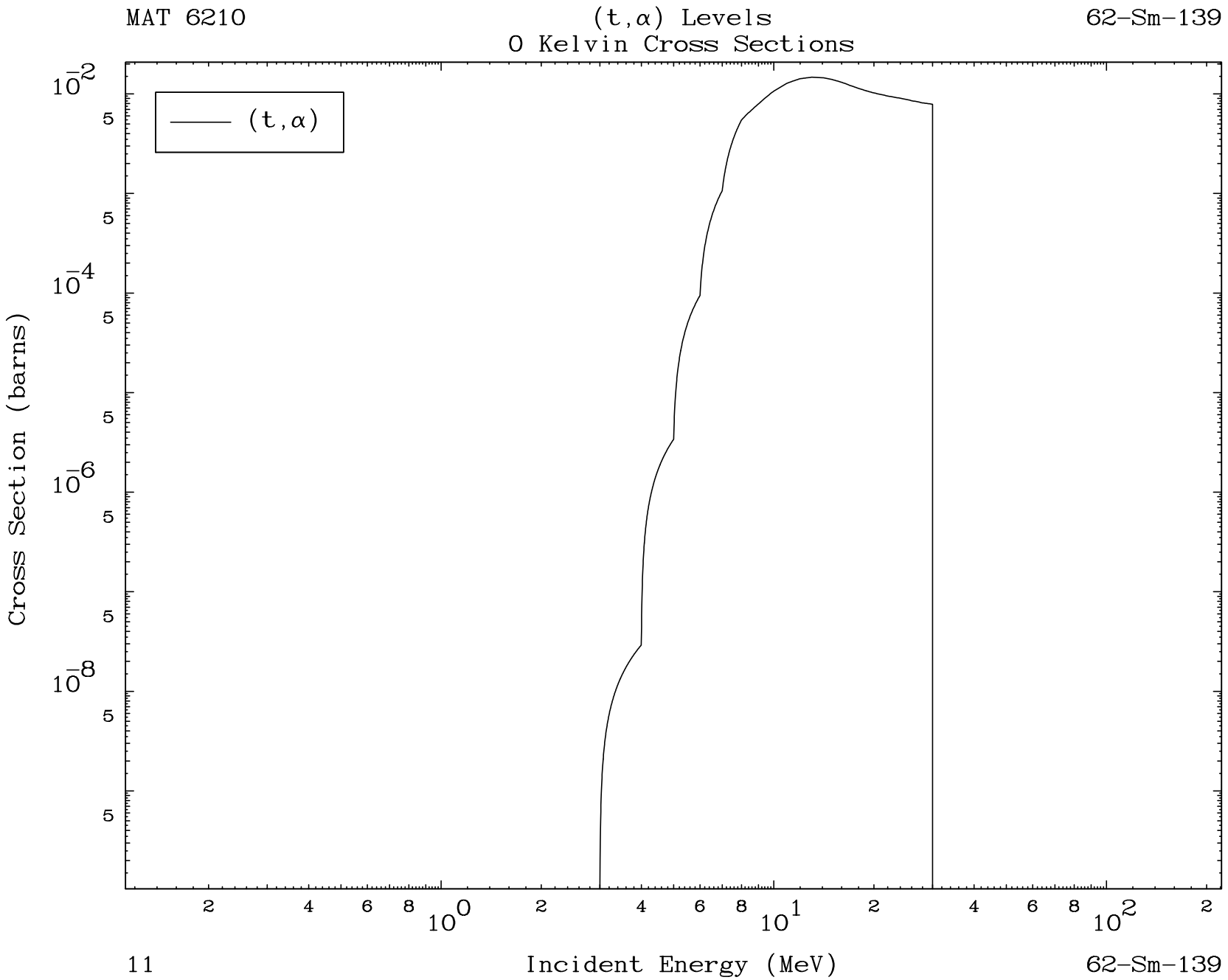

MAT 6210
(t,n') Level
62-Sm-139
0 Kelvin Cross Sections
Triton Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
6
62-Sm-139

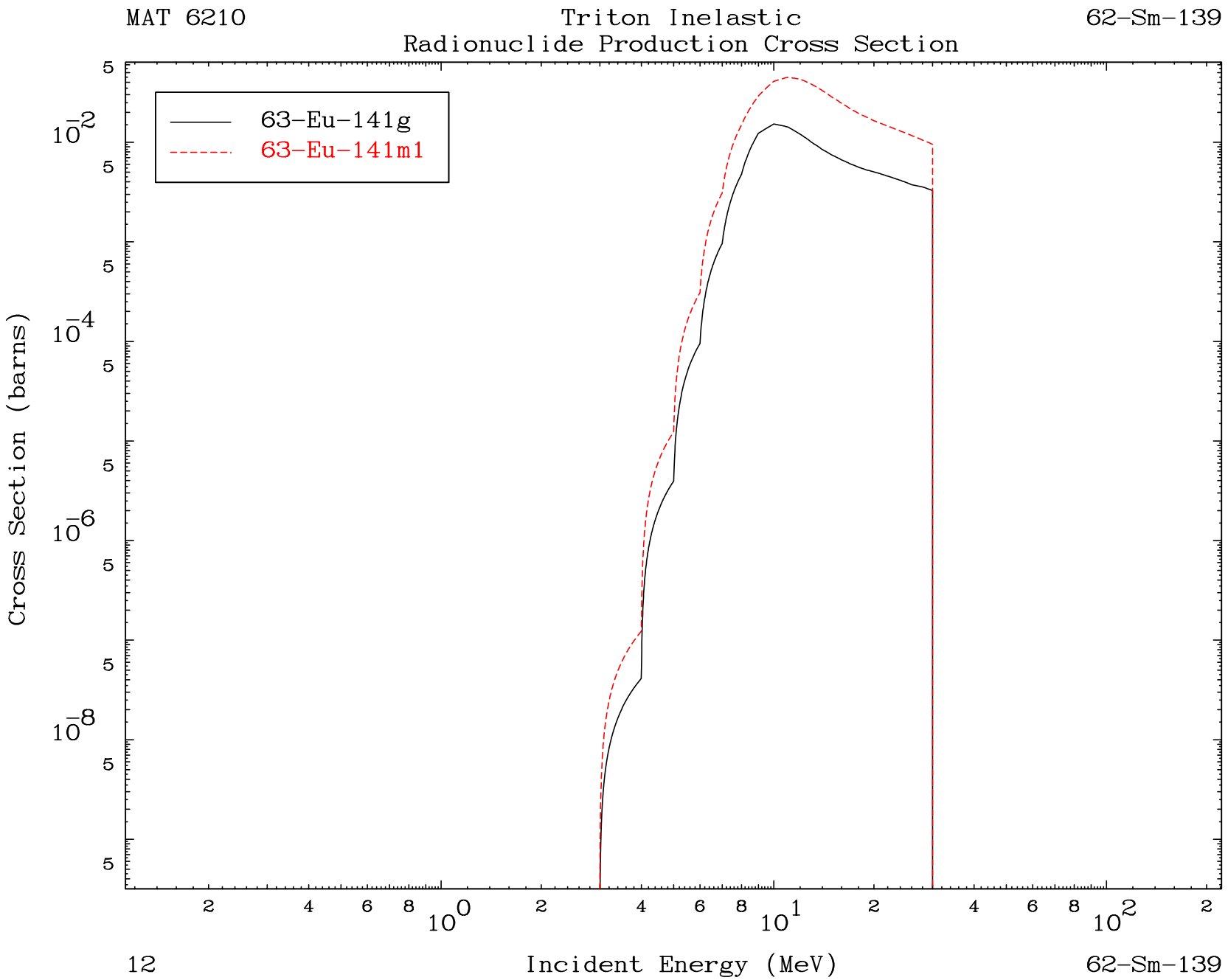

MAT 6210
(t,p) Levels
62-Sm-139
0 Kelvin Cross Sections
(t,p)
Cross Section (barns)
Incident Energy (MeV)
7
62-Sm-139

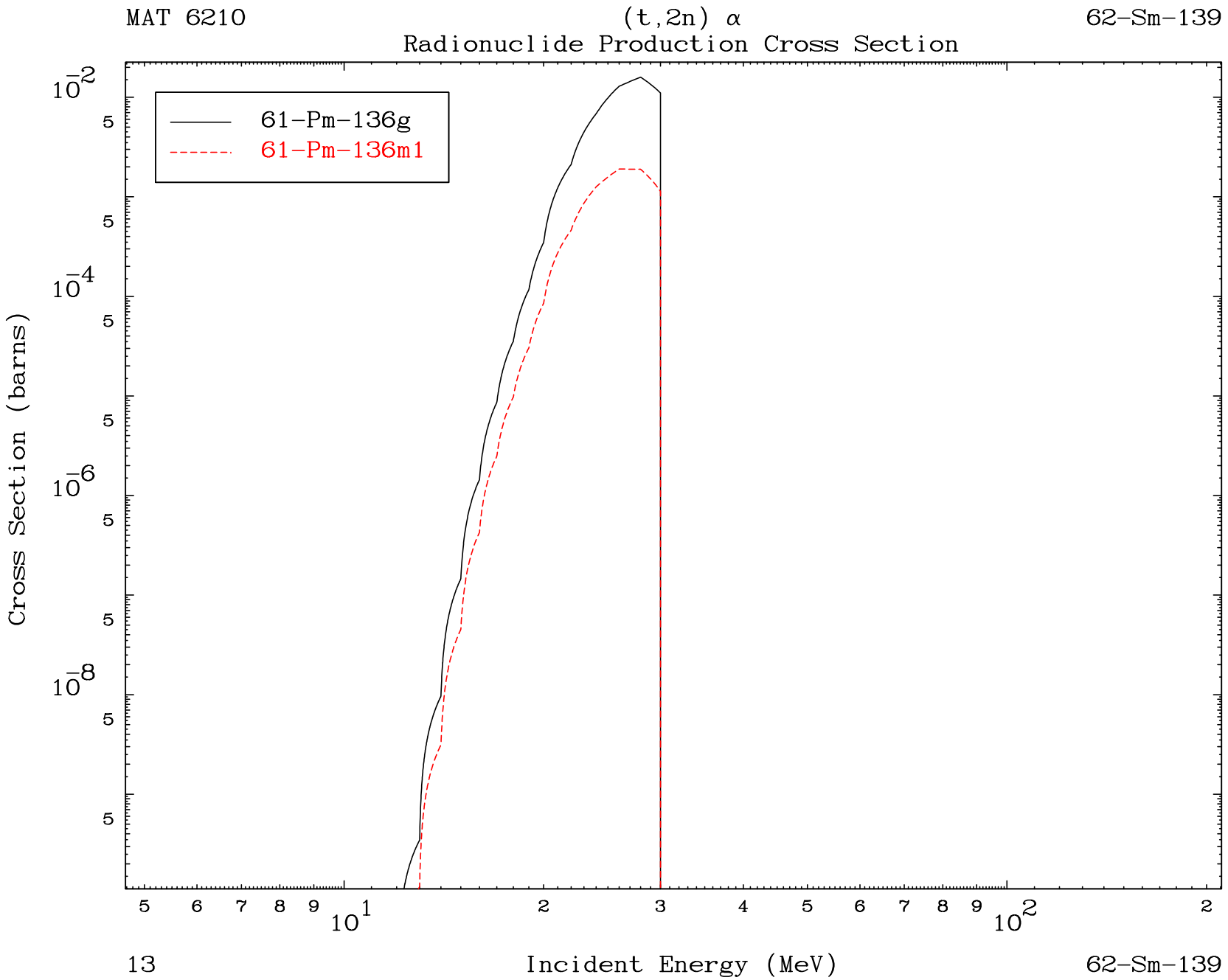

0 Kelvin Cross Sections
(t,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)

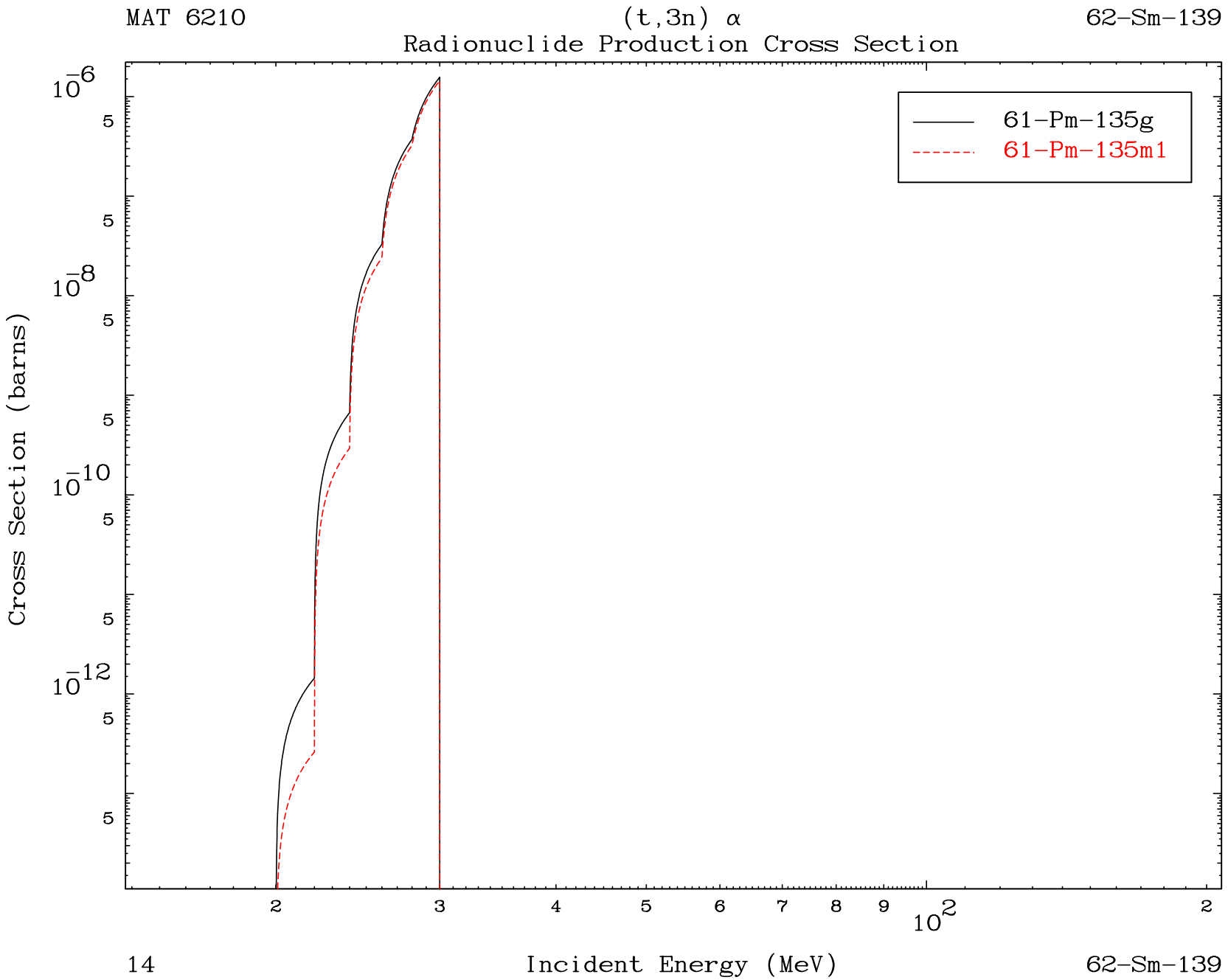

MAT 6210
(t,t) Levels
62-Sm-139
0 Kelvin Cross Sections
(t,t)
Cross Section (barns)
Incident Energy (MeV)
9
62-Sm-139

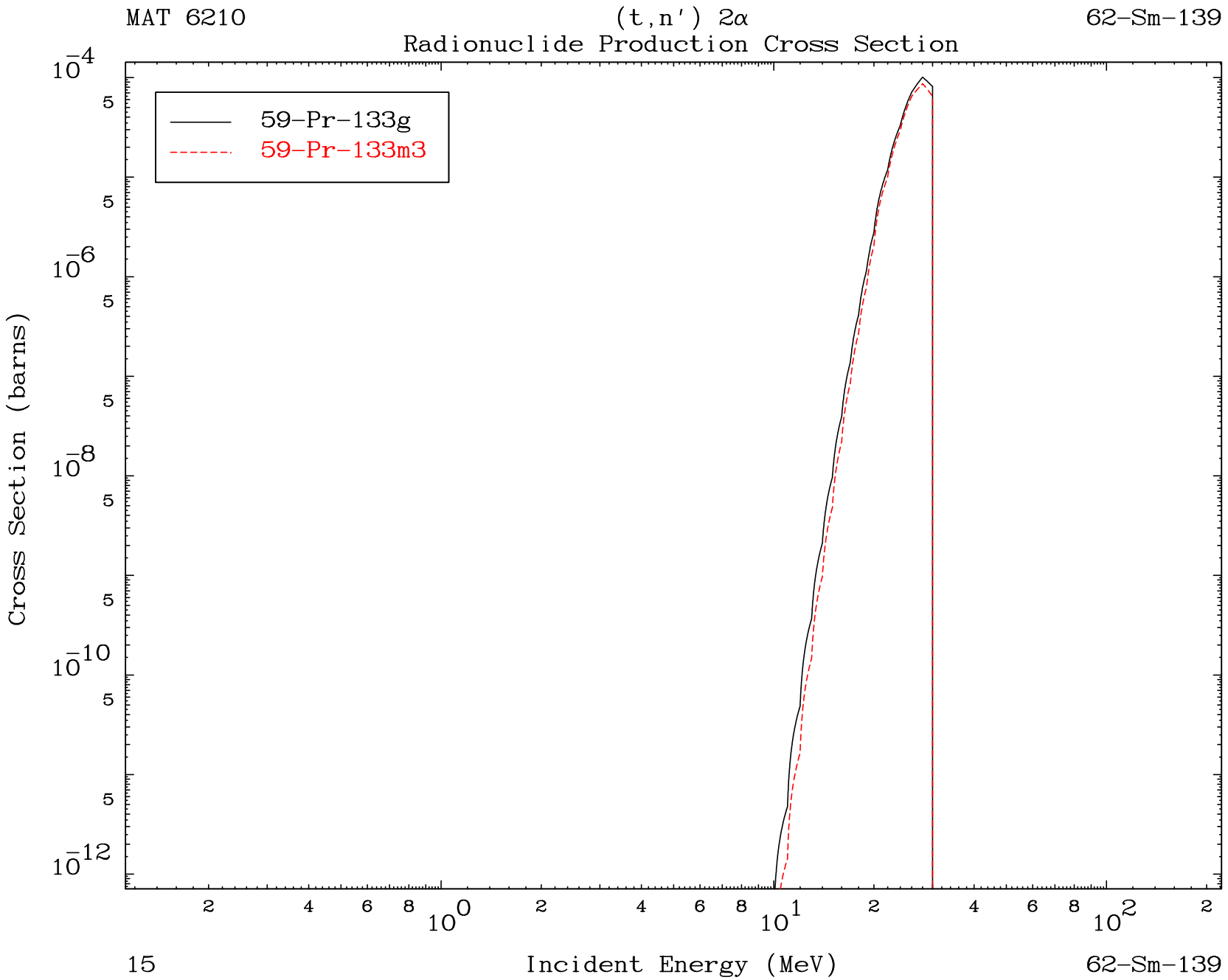

MAT 6210
(t,He3) Levels
62-Sm-139
0 Kelvin Cross Sections
(t,He-3)
Cross Section (barns)
Incident Energy (MeV)
62-Sm-139

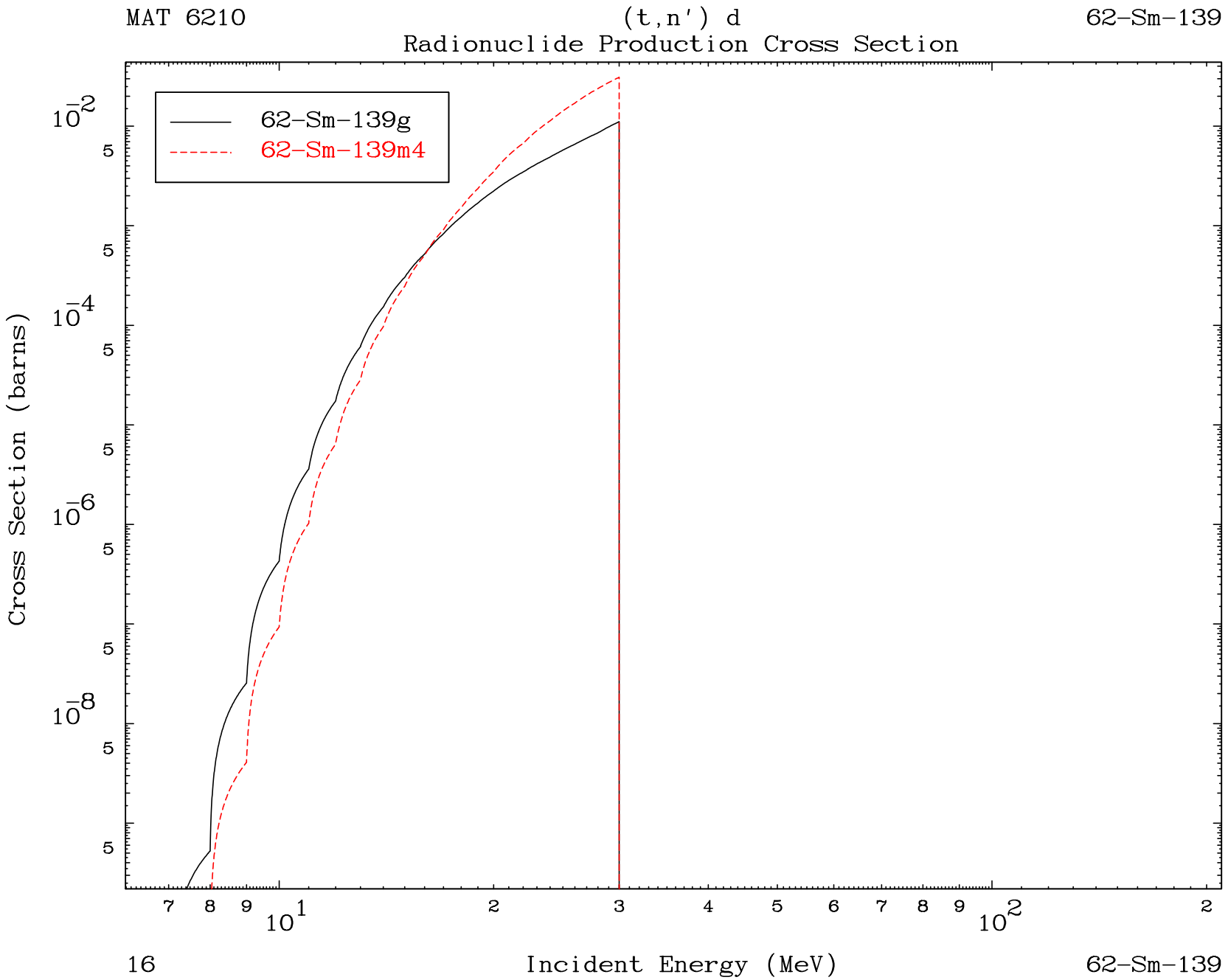

MAT 6210
(t,α) Levels
62-Sm-139
0 Kelvin Cross Sections
(t,α)
Cross Section (barns)
Incident Energy (MeV)
11
62-Sm-139

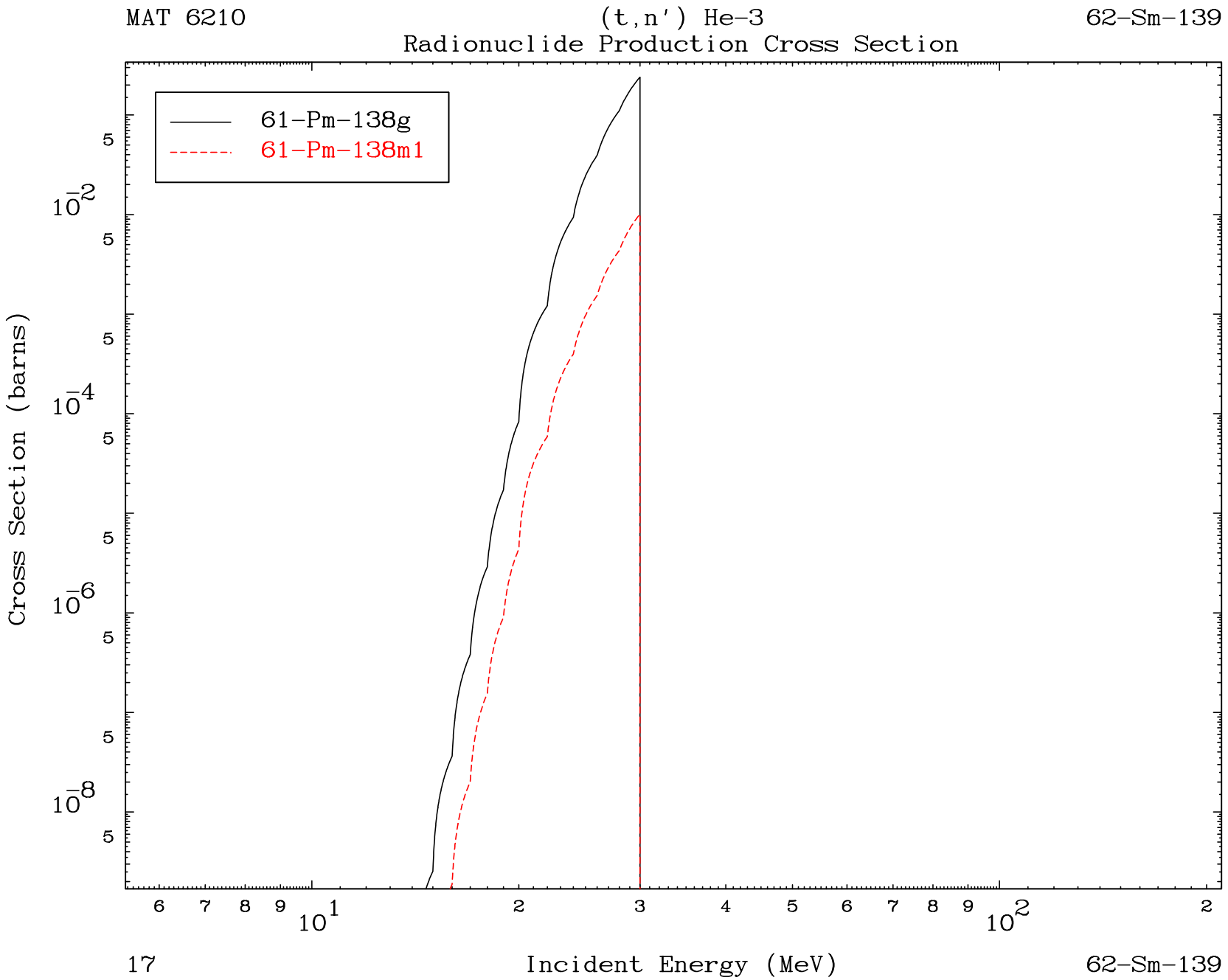

MAT 6210
Triton Inelastic
62-Sm-139
Radionuclide Production Cross Section
63-Eu-141g
63-Eu-141m1
Cross Section (barns)
Incident Energy (MeV)
12
62-Sm-139

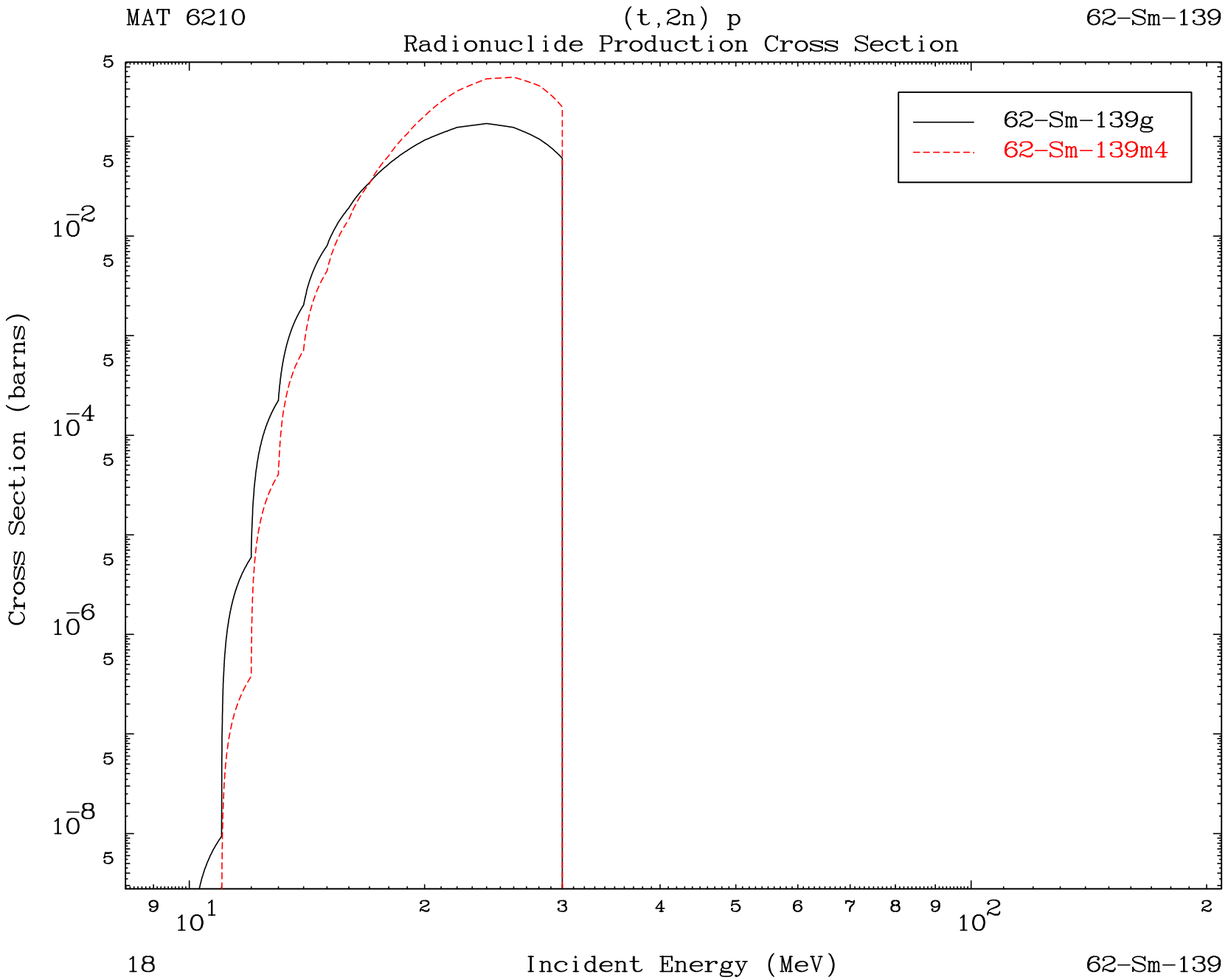

MAT 6210
(t,2n) α
62-Sm-139
Radionuclide Production Cross Section
61-Pm-136g
61-Pm-136m1
Cross Section (barns)
Incident Energy (MeV)
13
62-Sm-139

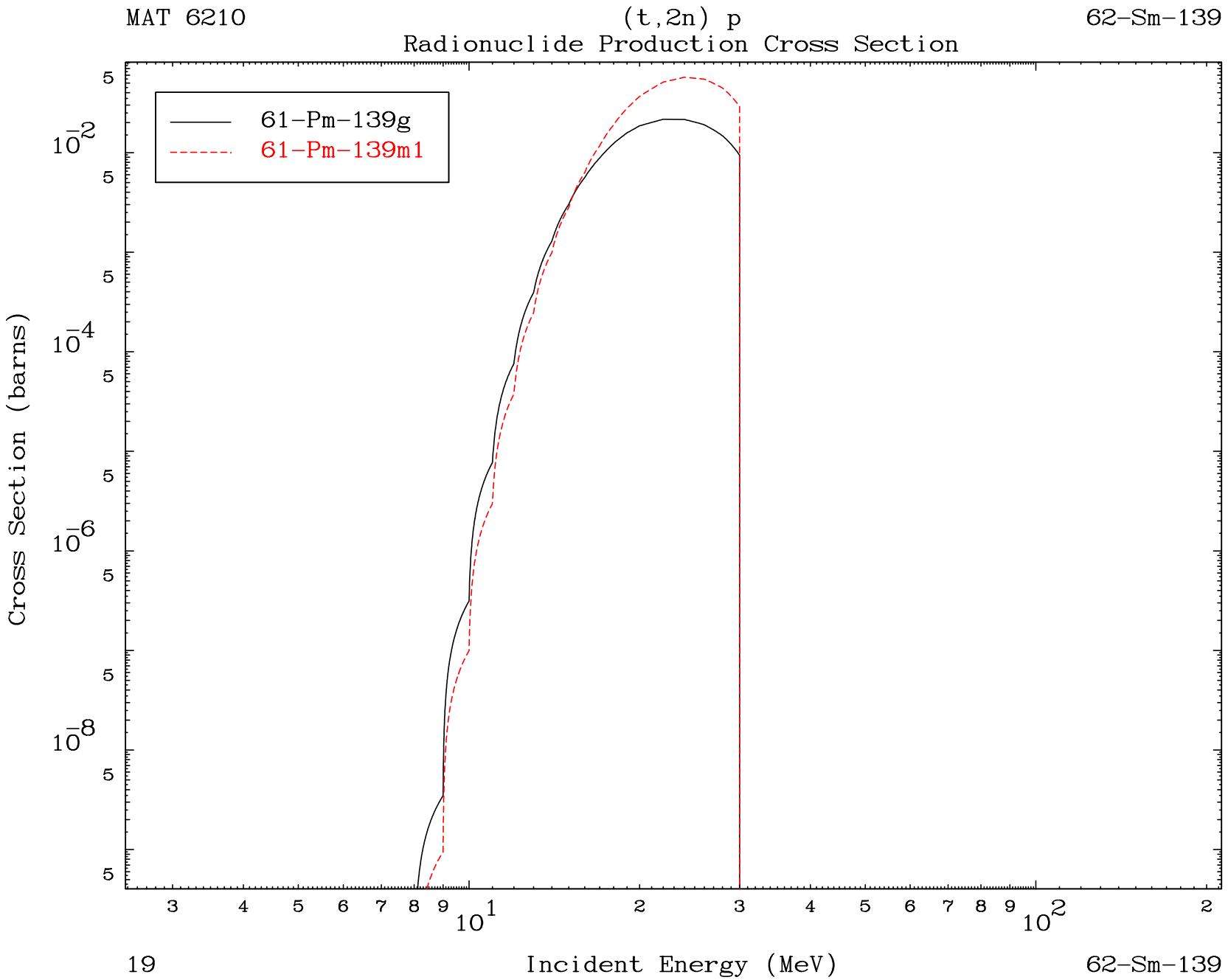

MAT 6210
(t,3n) α
62-Sm-139
Radionuclide Production Cross Section
61-Pm-135g
61-Pm-135m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
62-Sm-139

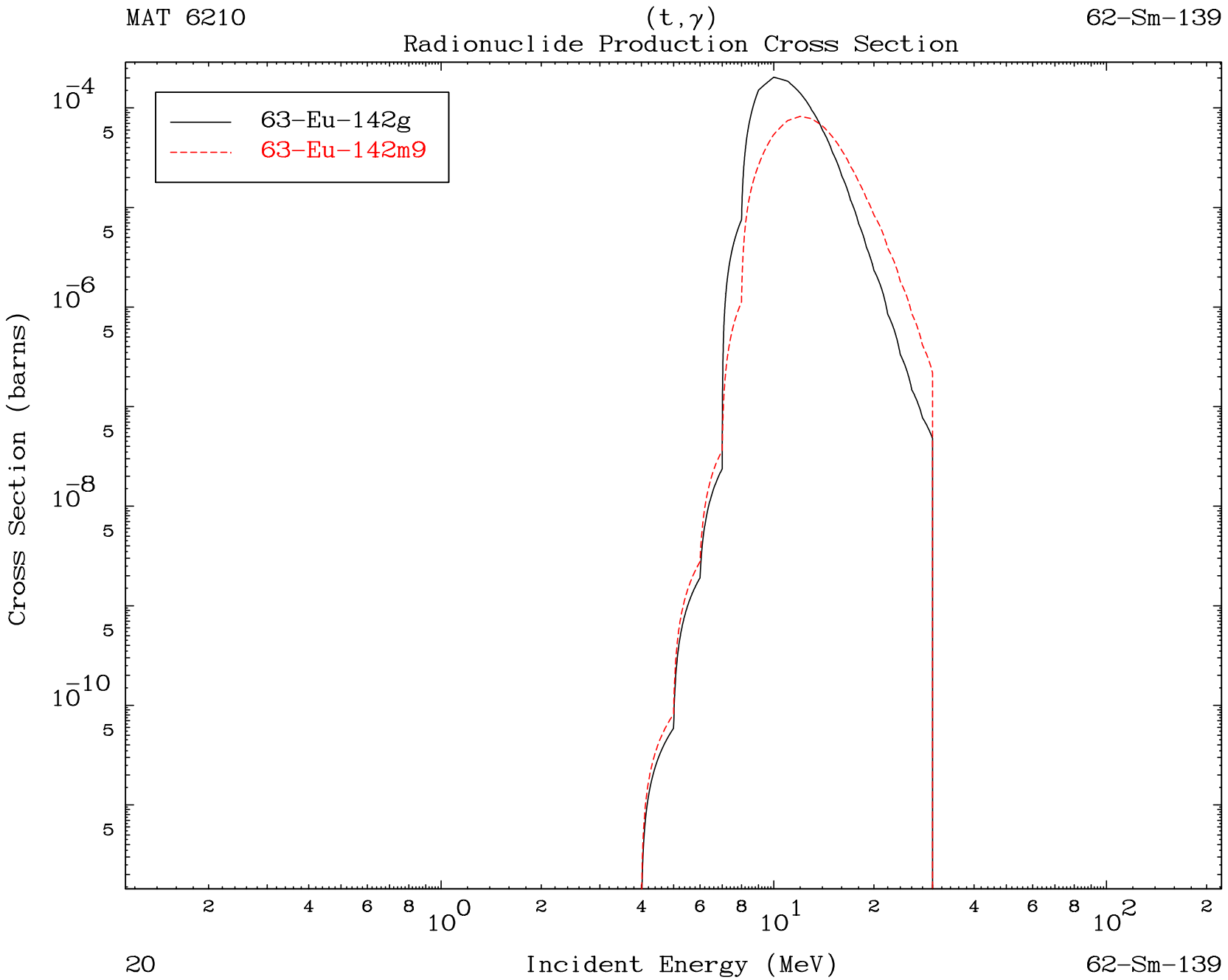

MAT 6210
(t,n') 2α
62-Sm-139
Radionuclide Production Cross Section
59-Pr-133g
59-Pr-133m3
Cross Section (barns)
Incident Energy (MeV)
15
62-Sm-139

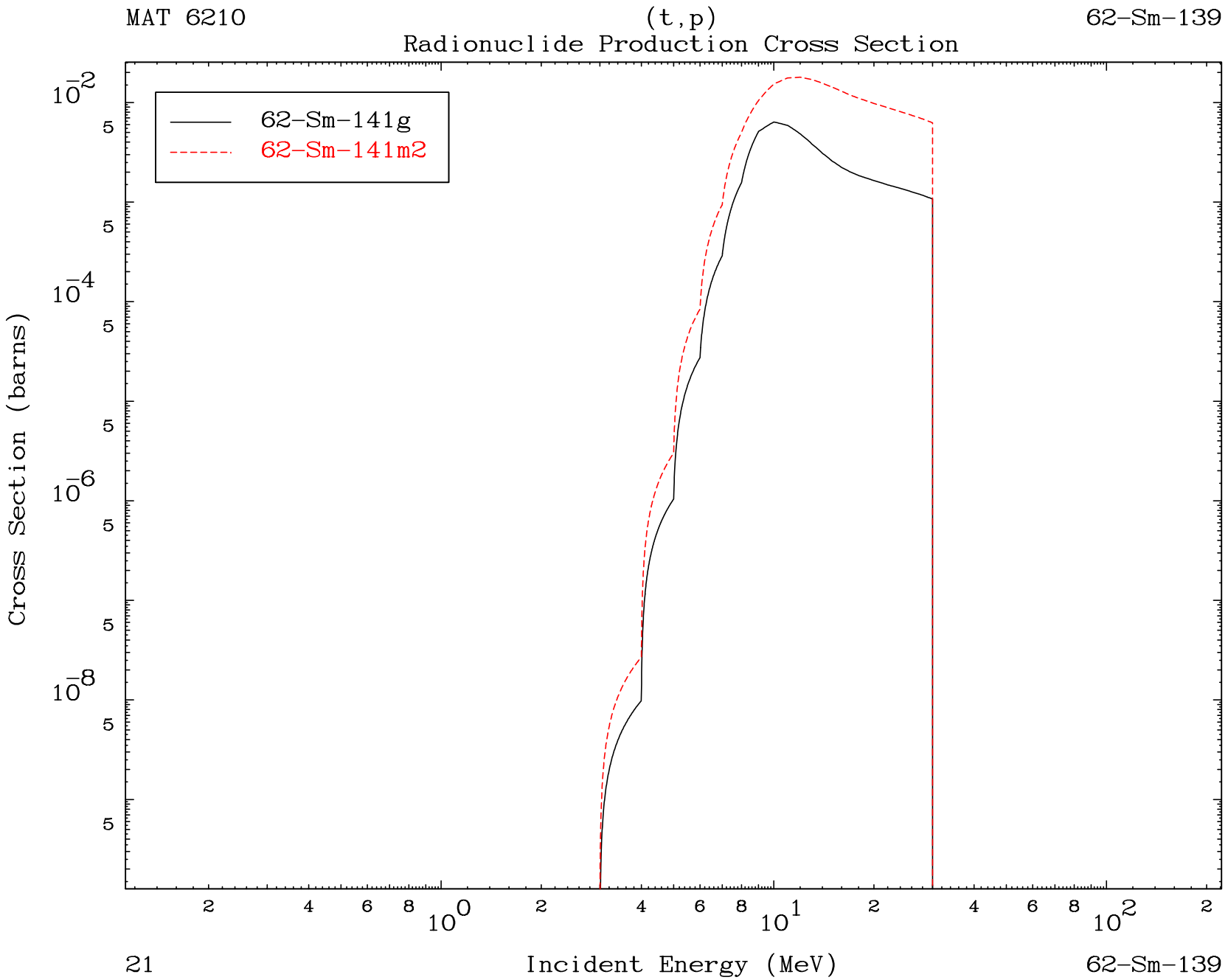

MAT 6210
(t,n') d
62-Sm-139
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
Incident Energy (MeV)
16
62-Sm-139

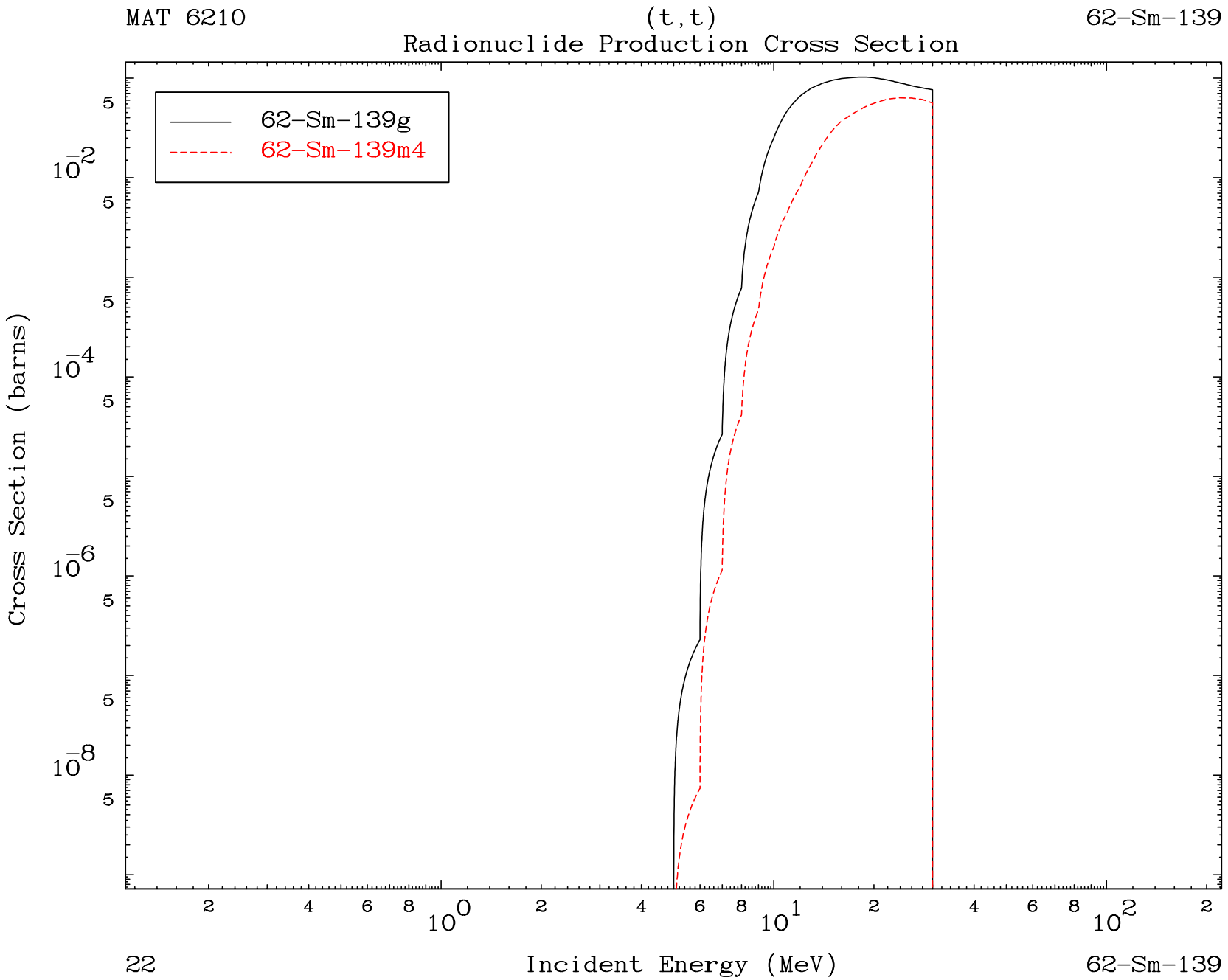

MAT 6210
(t,n') He-3
62-Sm-139
Radionuclide Production Cross Section
61-Pm-138g
61-Pm-138m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
17
62-Sm-139

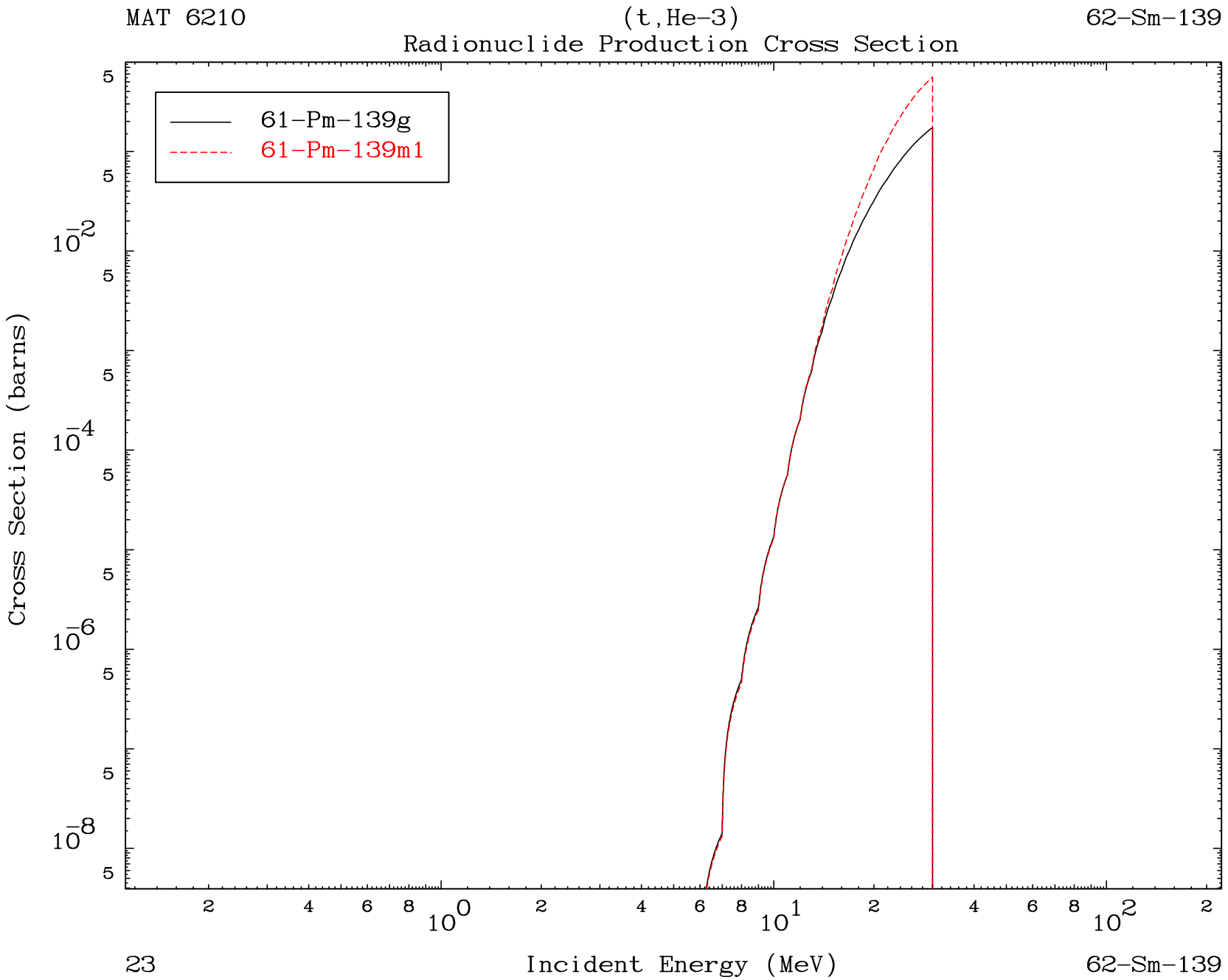

MAT 6210
(t,2n) p
62-Sm-139
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
Incident Energy (MeV)
18
62-Sm-139

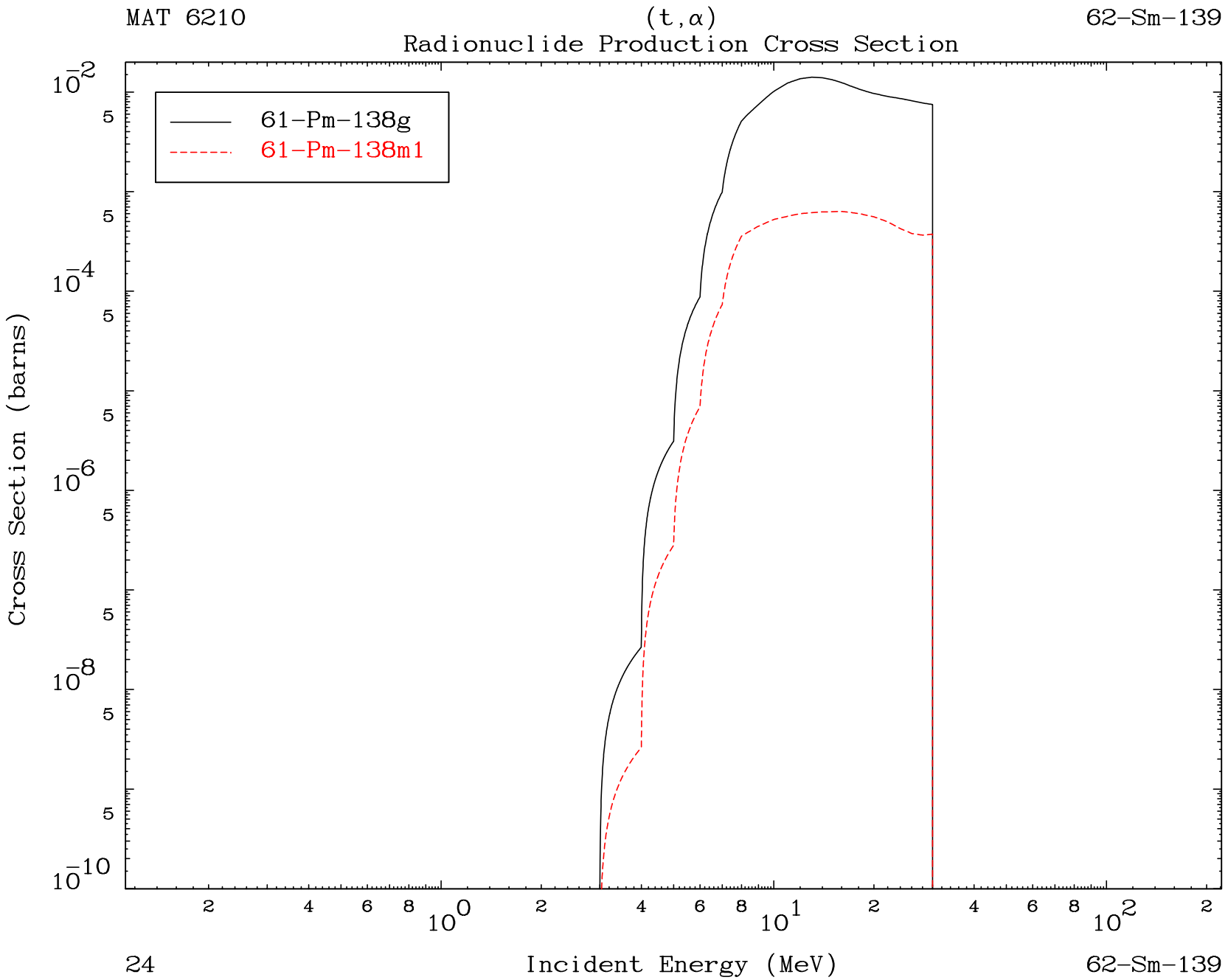

MAT 6210
(t,2n) p
62-Sm-139
Radionuclide Production Cross Section
61-Pm-139g
61-Pm-139m1
Cross Section (barns)
Incident Energy (MeV)
19
62-Sm-139

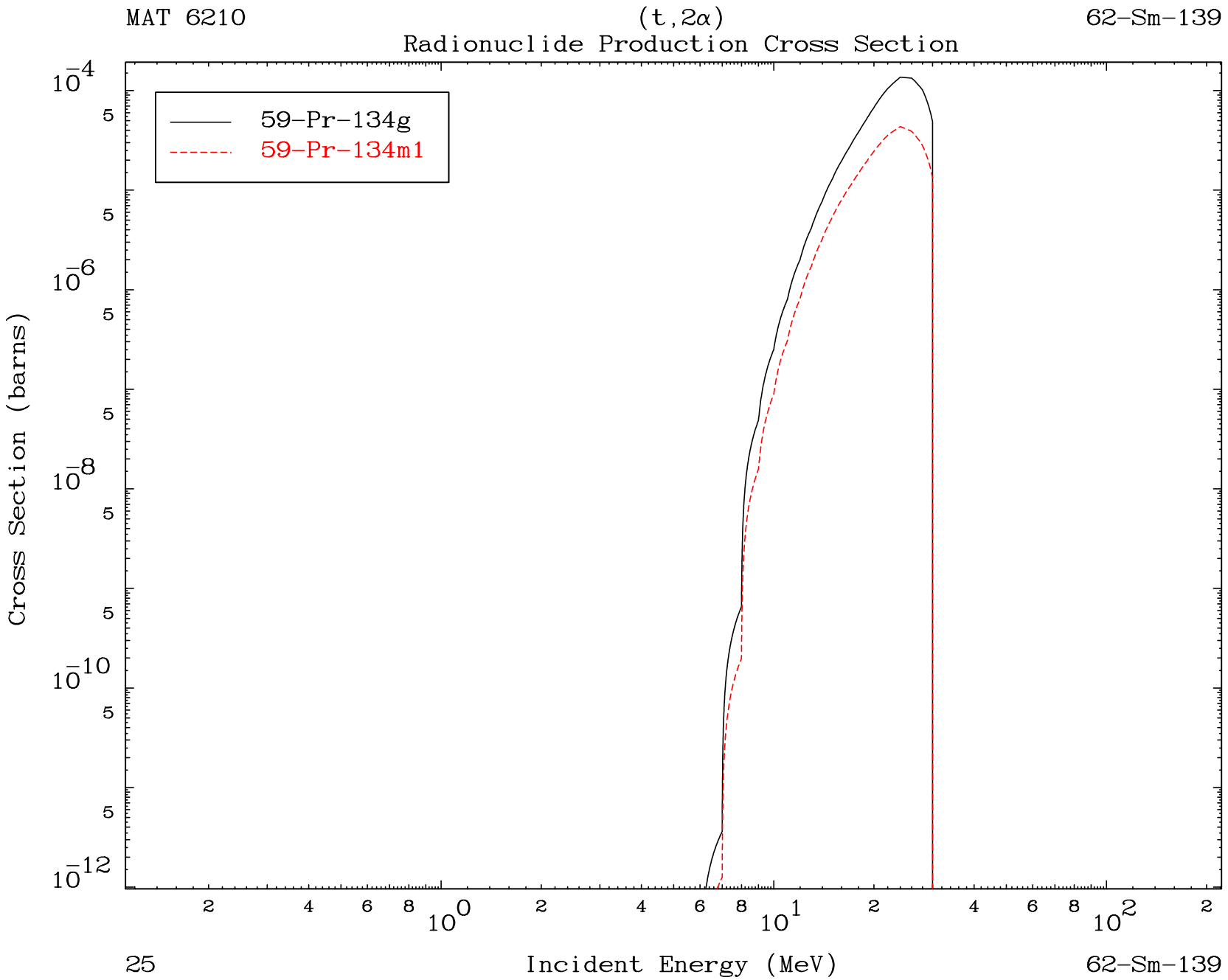

MAT 6210
(t,γ)
62-Sm-139
Radionuclide Production Cross Section
63-Eu-142g
63-Eu-142m9
Cross Section (barns)
Incident Energy (MeV)
20
62-Sm-139

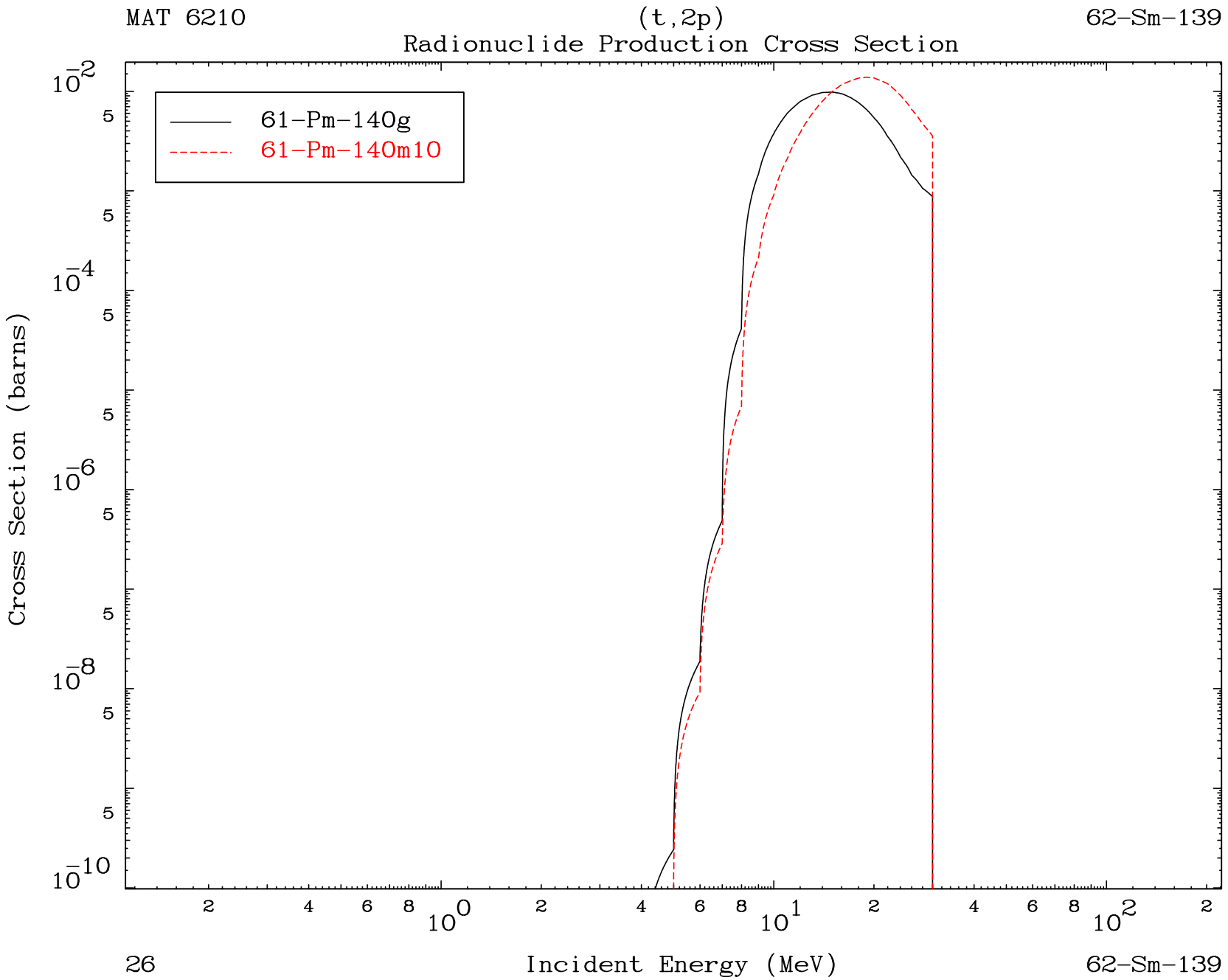

MAT 6210
(t,p)
62-Sm-139
Radionuclide Production Cross Section
62-Sm-141g
62-Sm-141m2
Cross Section (barns)
Incident Energy (MeV)
21
62-Sm-139

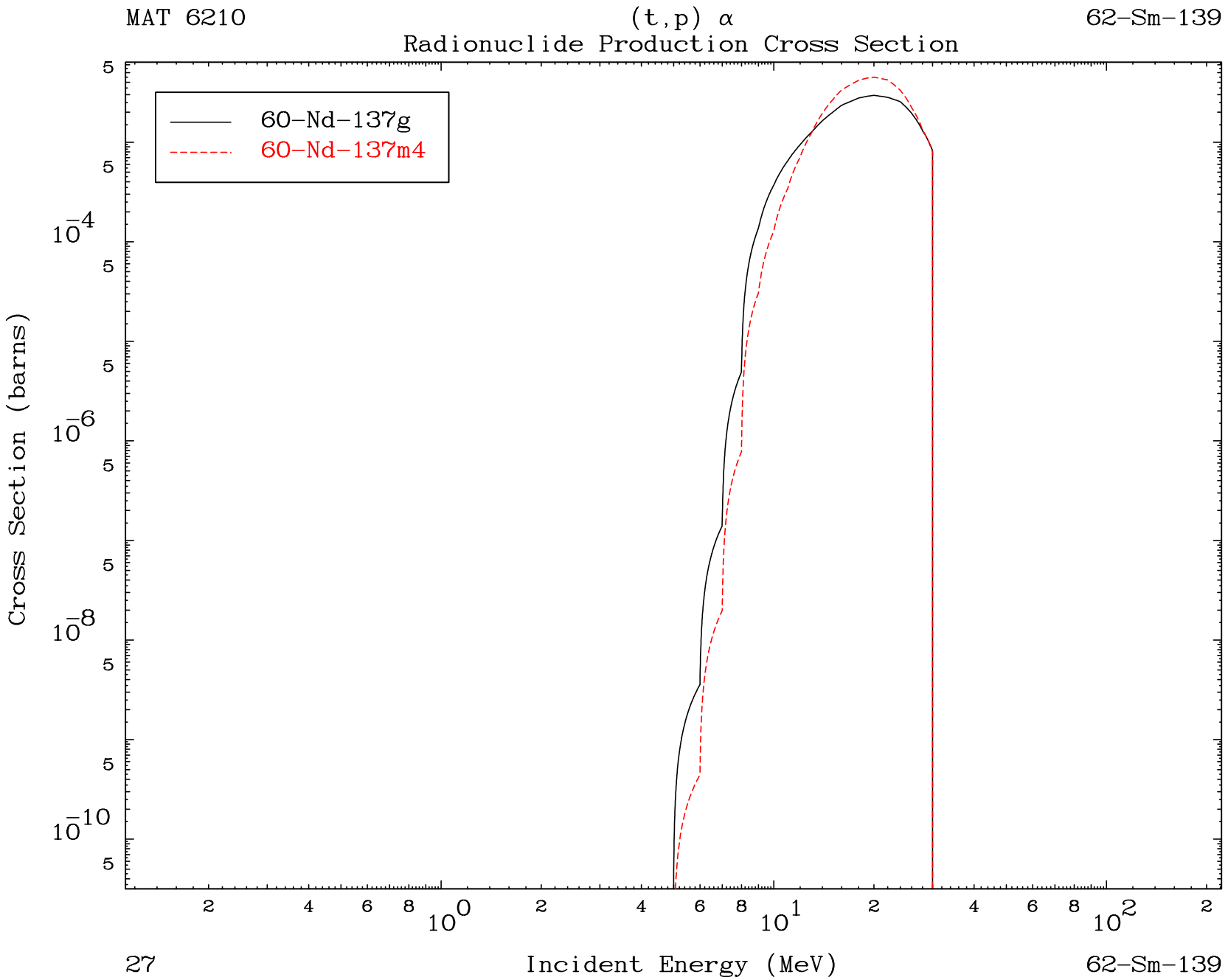

MAT 6210
(t,t)
62-Sm-139
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
22
Incident Energy (MeV)
62-Sm-139

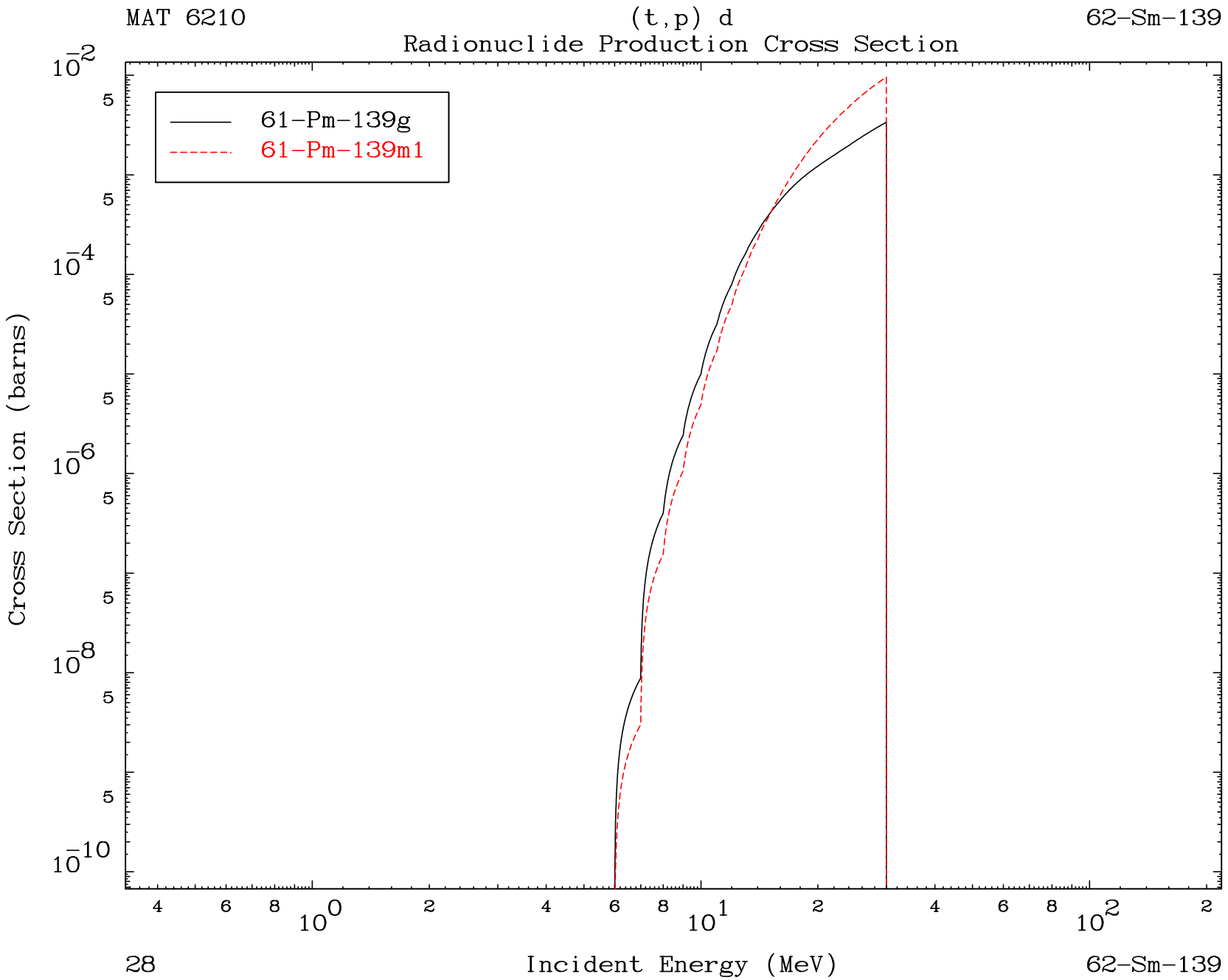

MAT 6210
(t,He-3)
62-Sm-139
Radionuclide Production Cross Section
61-Pm-139g
61-Pm-139m1
Cross Section (barns)
Incident Energy (MeV)
23
62-Sm-139

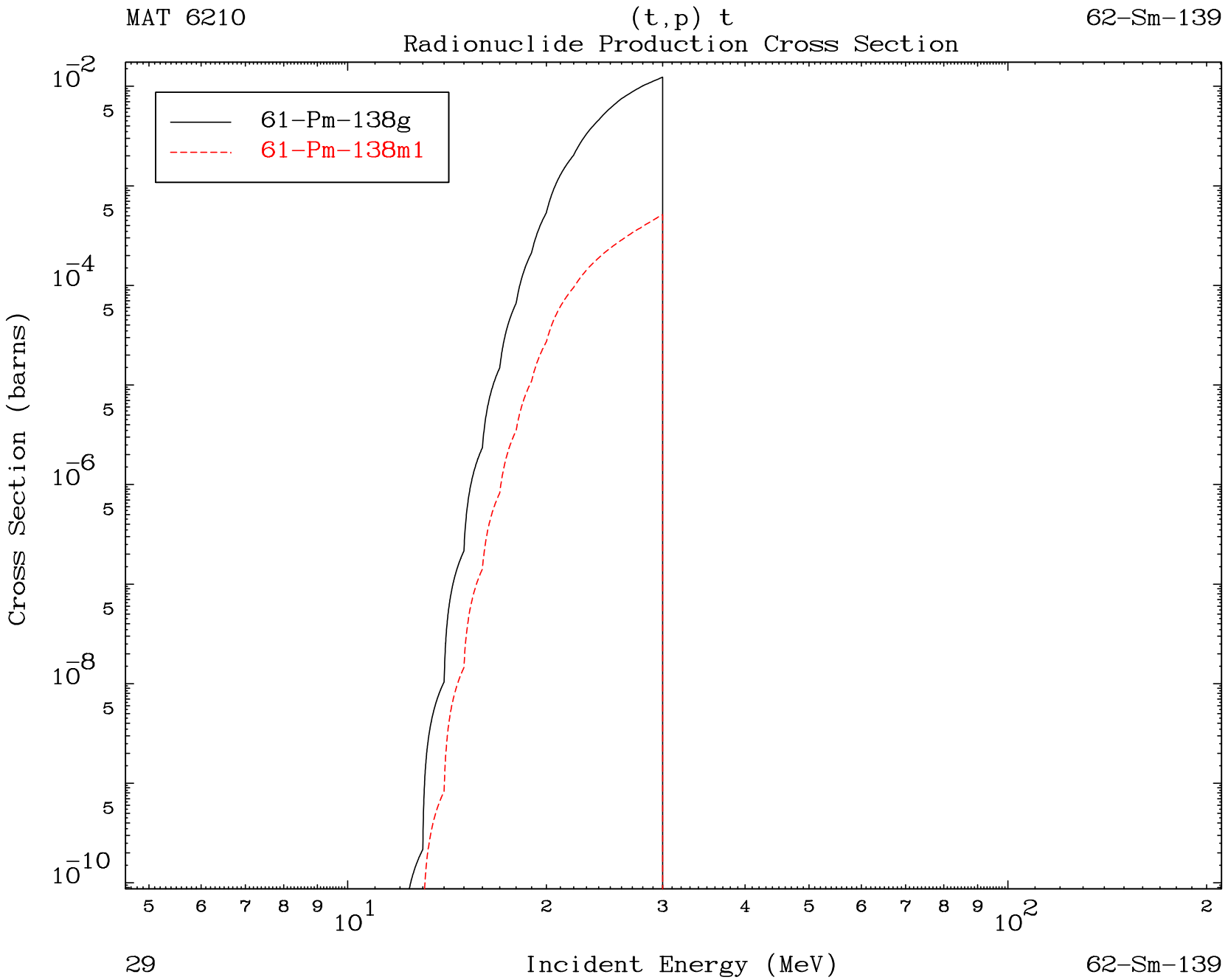

MAT 6210
(t,α)
62-Sm-139
Radionuclide Production Cross Section
61-Pm-138g
61-Pm-138m1
Cross Section (barns)
Incident Energy (MeV)
24
62-Sm-139


MAT 6210
(t,2α)
62-Sm-139
Radionuclide Production Cross Section
59-Pr-134g
59-Pr-134m1
Cross Section (barns)
Incident Energy (MeV)
25
62-Sm-139


MAT 6210
(t,2p)
62-Sm-139
Radionuclide Production Cross Section
61-Pm-140g
61-Pm-140m10
Cross Section (barns)
Incident Energy (MeV)
26
62-Sm-139


MAT 6210
(t,p) α
62-Sm-139
Radionuclide Production Cross Section
60-Nd-137g
60-Nd-137m4
Cross Section (barns)
Incident Energy (MeV)
27
62-Sm-139


MAT 6210
(t,p) d
62-Sm-139
Radionuclide Production Cross Section
61-Pm-139g
61-Pm-139m1
Cross Section (barns)
Incident Energy (MeV)
28
62-Sm-139


MAT 6210
(t,p) t
62-Sm-139
Radionuclide Production Cross Section
61-Pm-138g
61-Pm-138m1
Cross Section (barns)
Incident Energy (MeV)
29
62-Sm-139