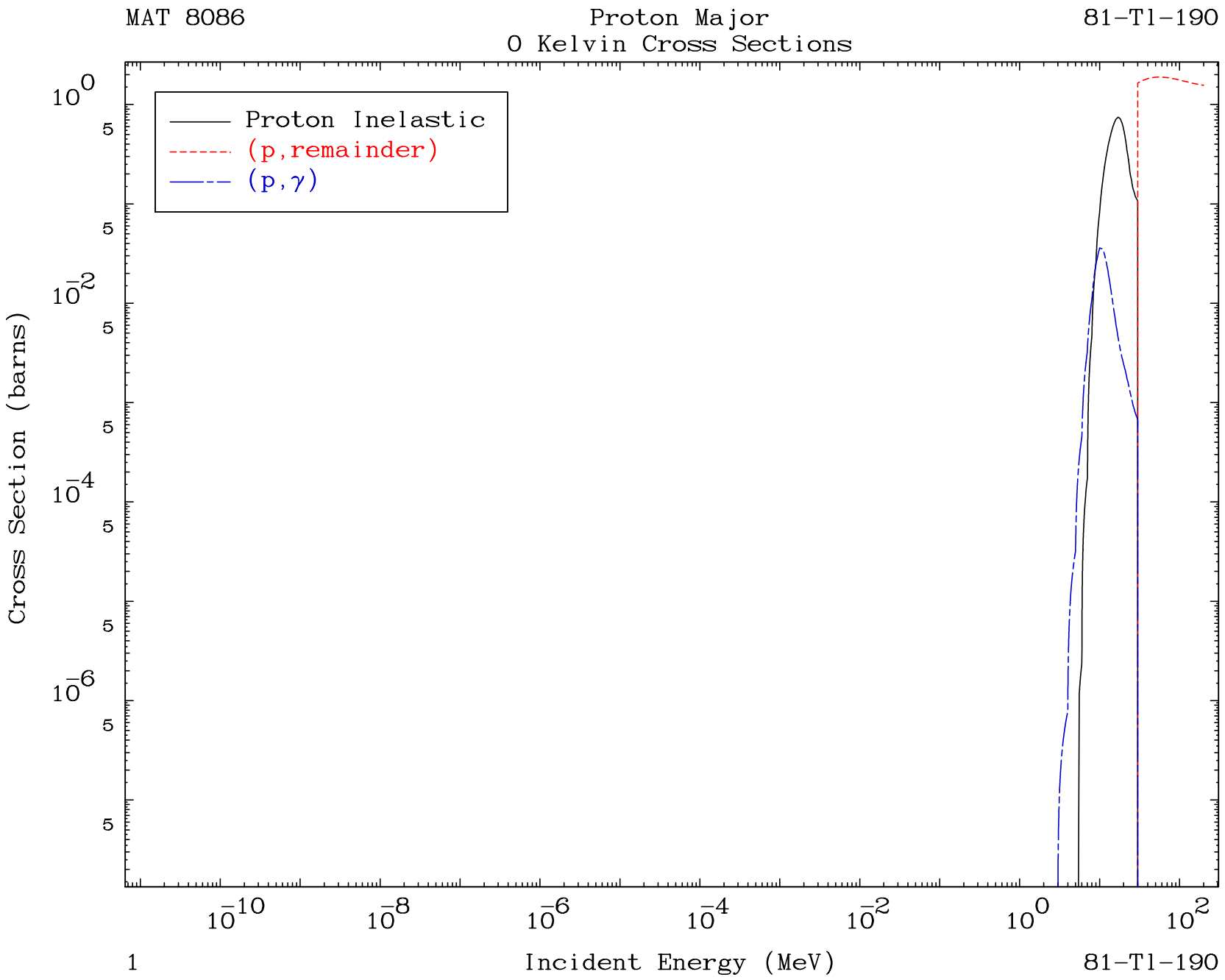
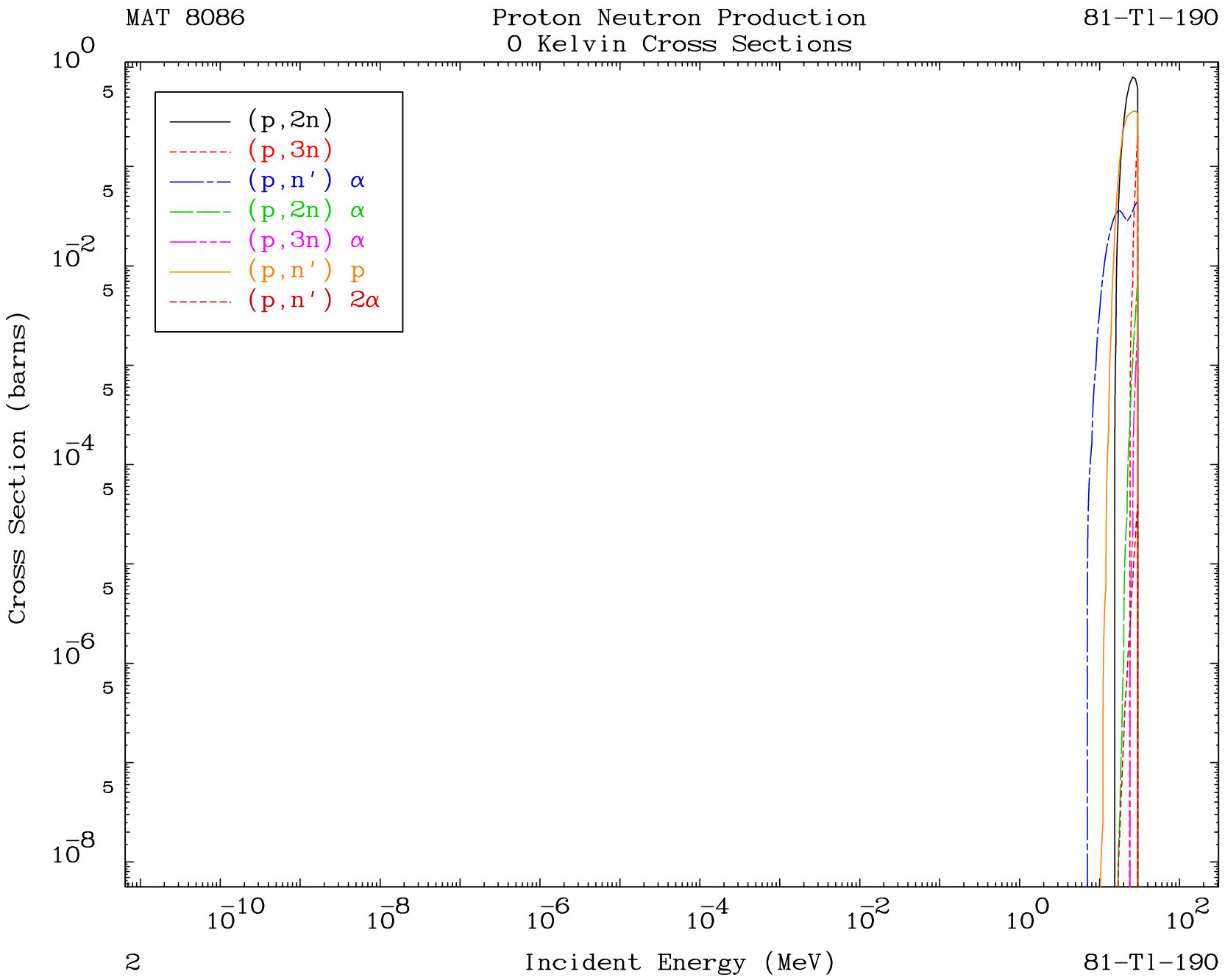
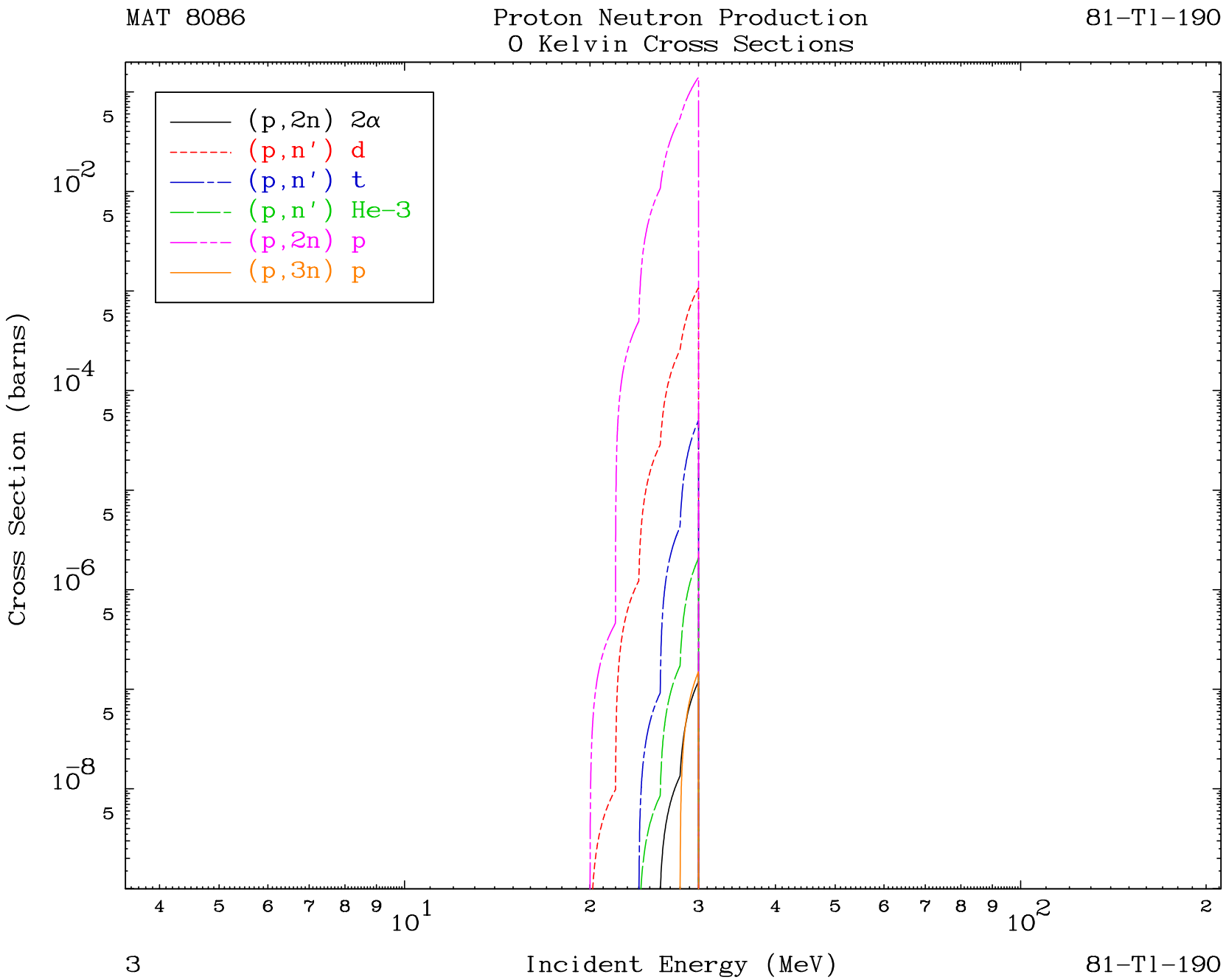
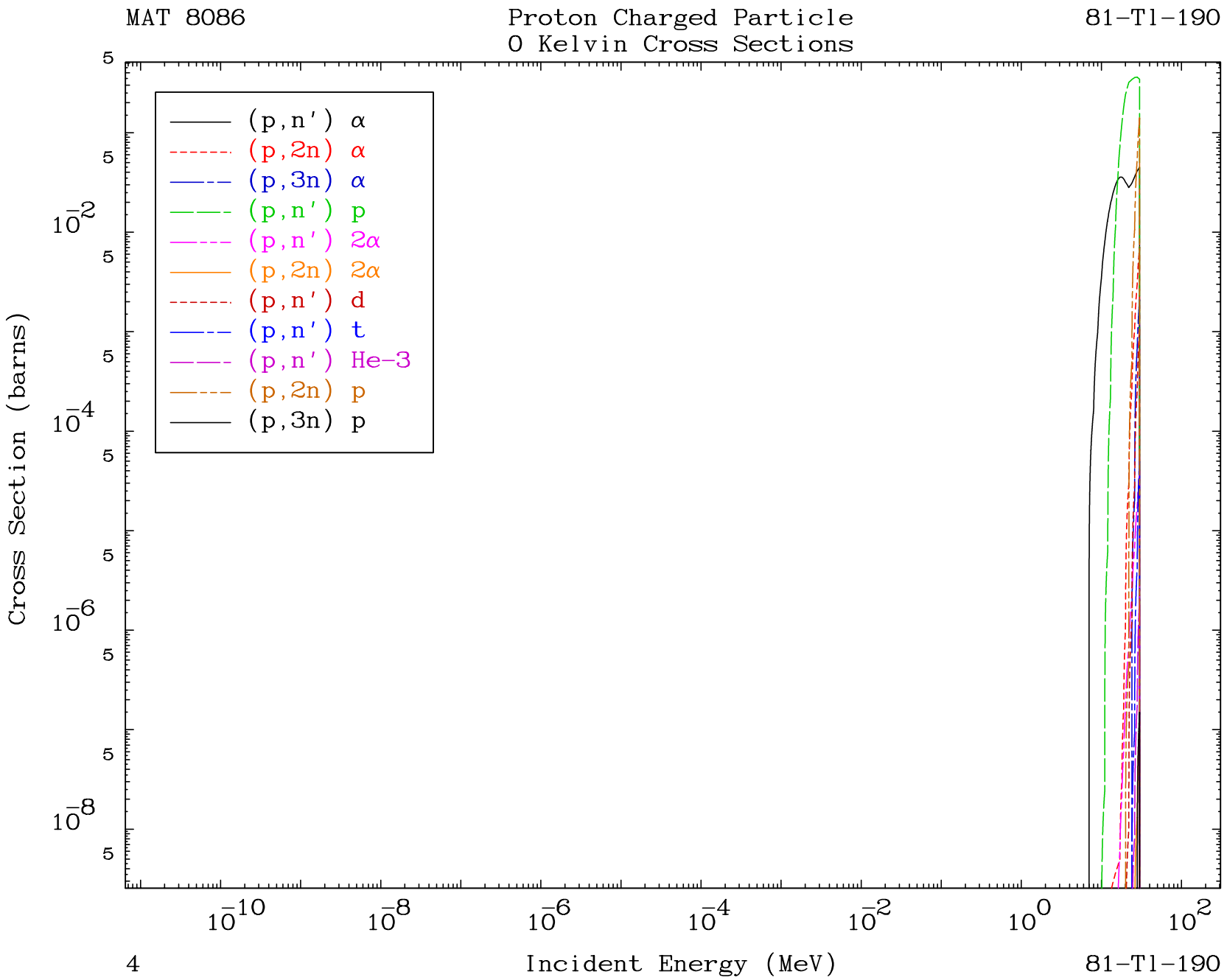
Program EVALPLOT
(Version 2017-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

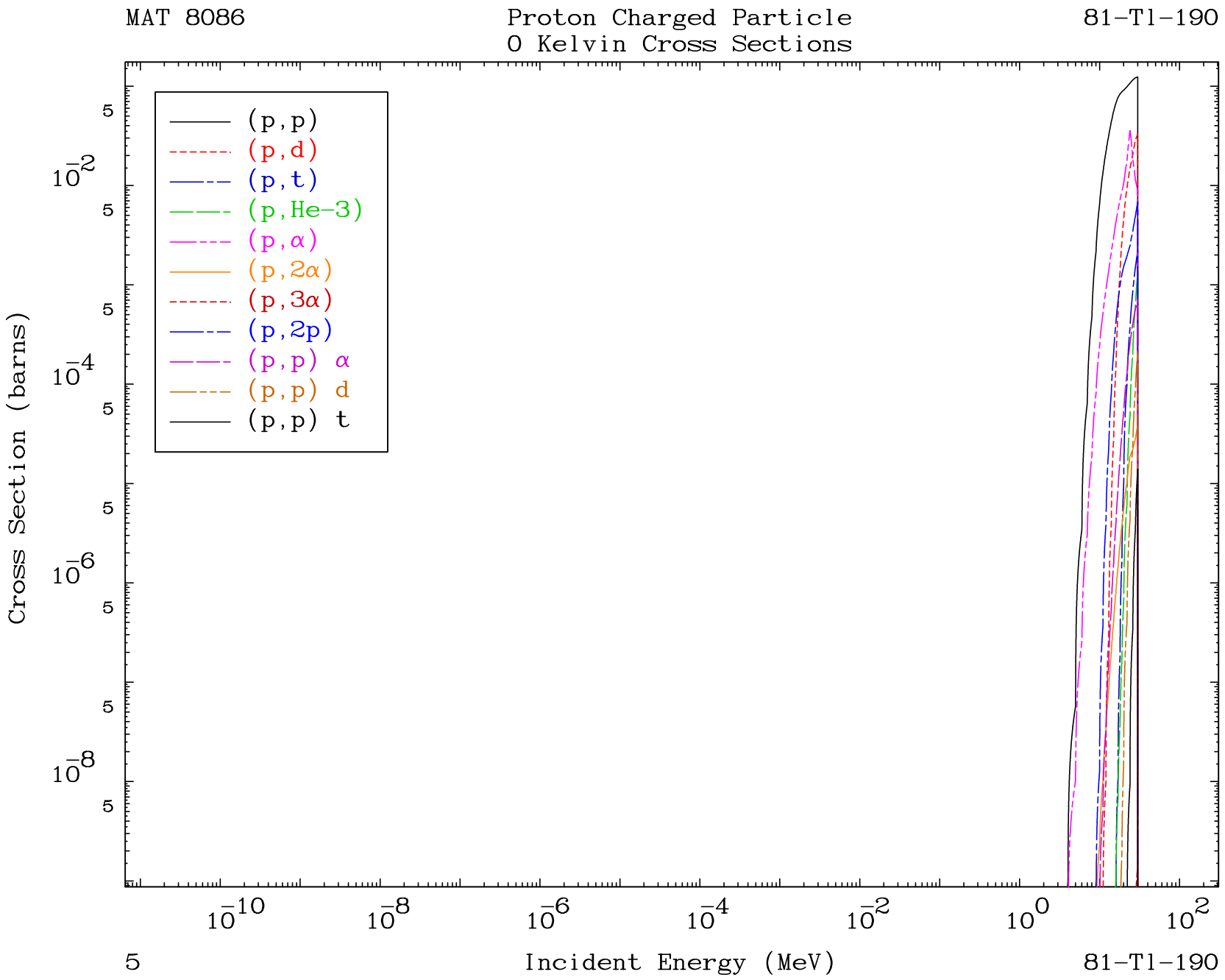
Press Mouse Button to Start

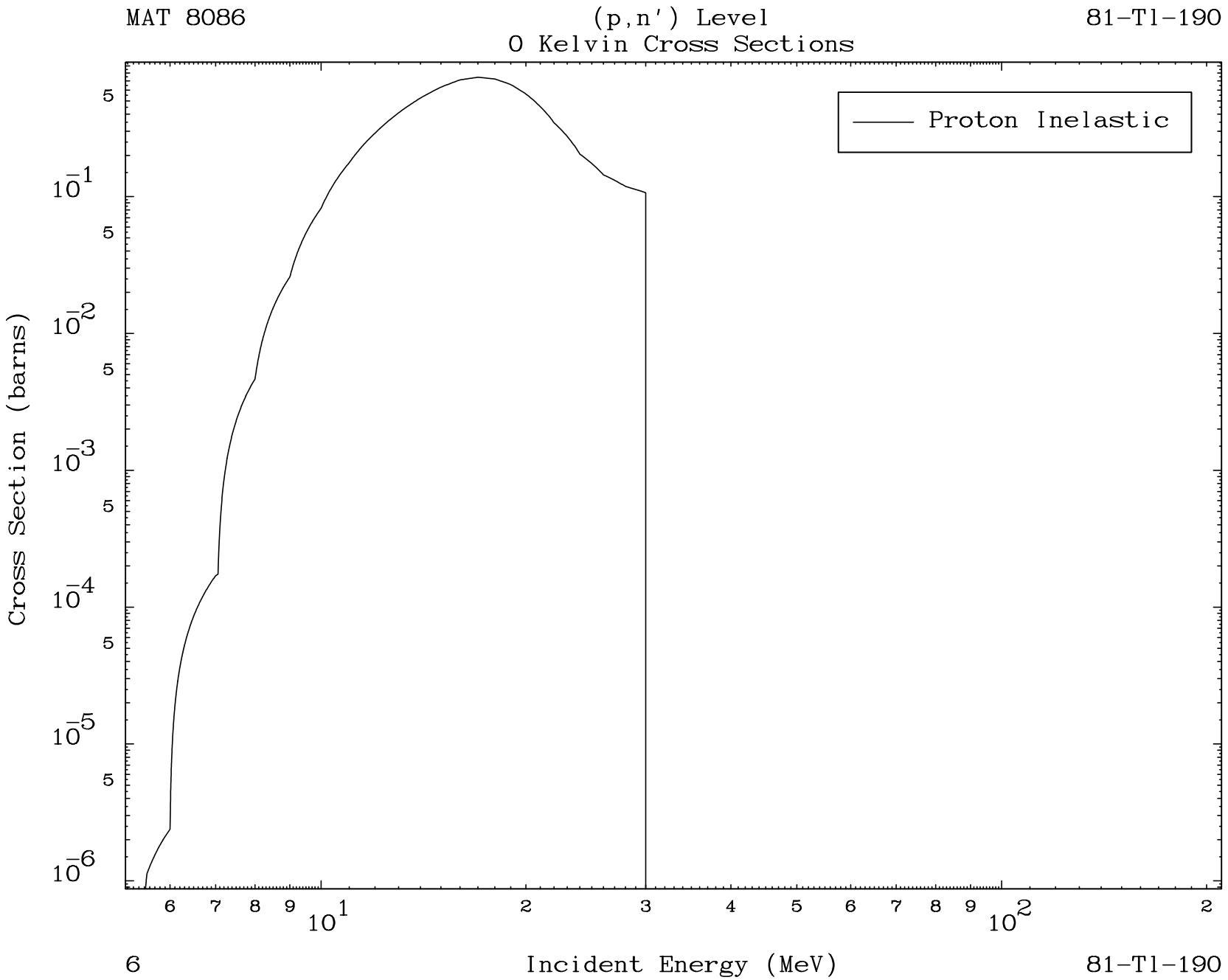

MAT 8086
Proton Major
81-Tl-190
0 Kelvin Cross Sections
Proton Inelastic
(p,remainder)
(p,γ)
Cross Section (barns)
Incident Energy (MeV)
81-Tl-190
1

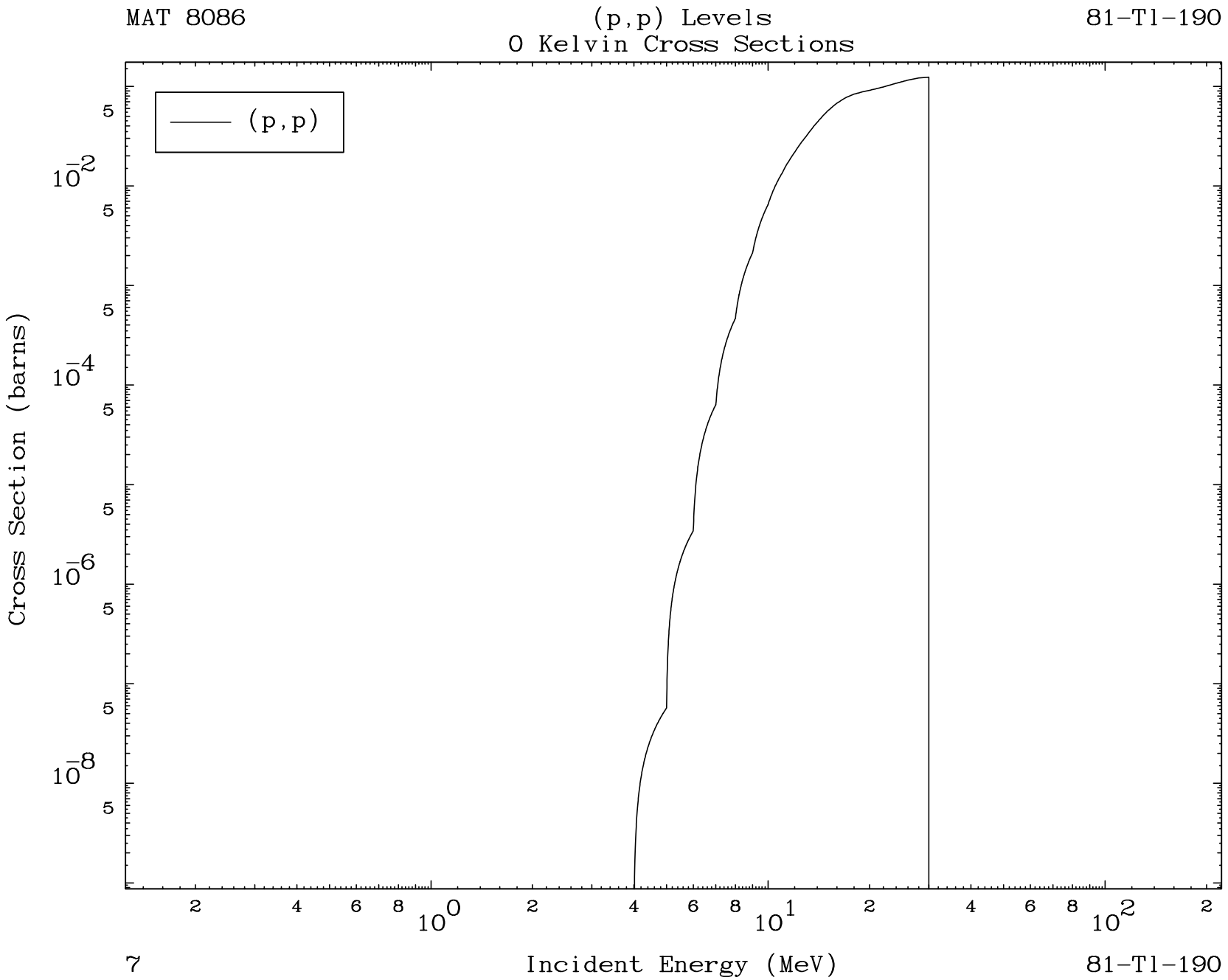

MAT 8086
Proton Neutron Production
0 Kelvin Cross Sections
81-Tl-190
(p,2n)
(p,3n)
(p,n') α
(p,2n) α
(p,3n) α
(p,n') p
(p,n') 2α
Cross Section (barns)
Incident Energy (MeV)
81-Tl-190
2

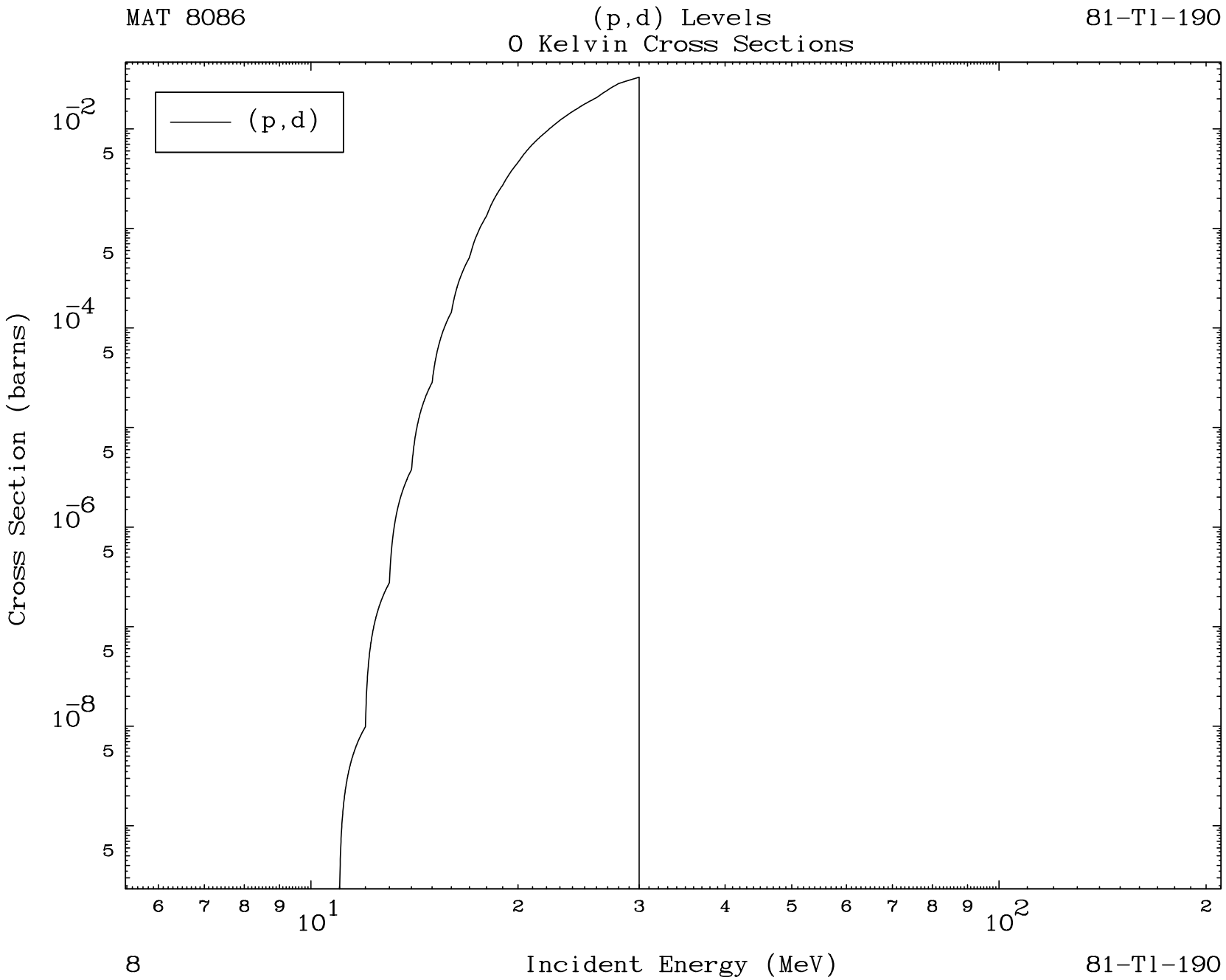

MAT 8086
Proton Neutron Production
0 Kelvin Cross Sections
81-Tl-190
(p,2n) 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,2n) p
(p,3n) p
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
10 1
10 2
3
81-Tl-190

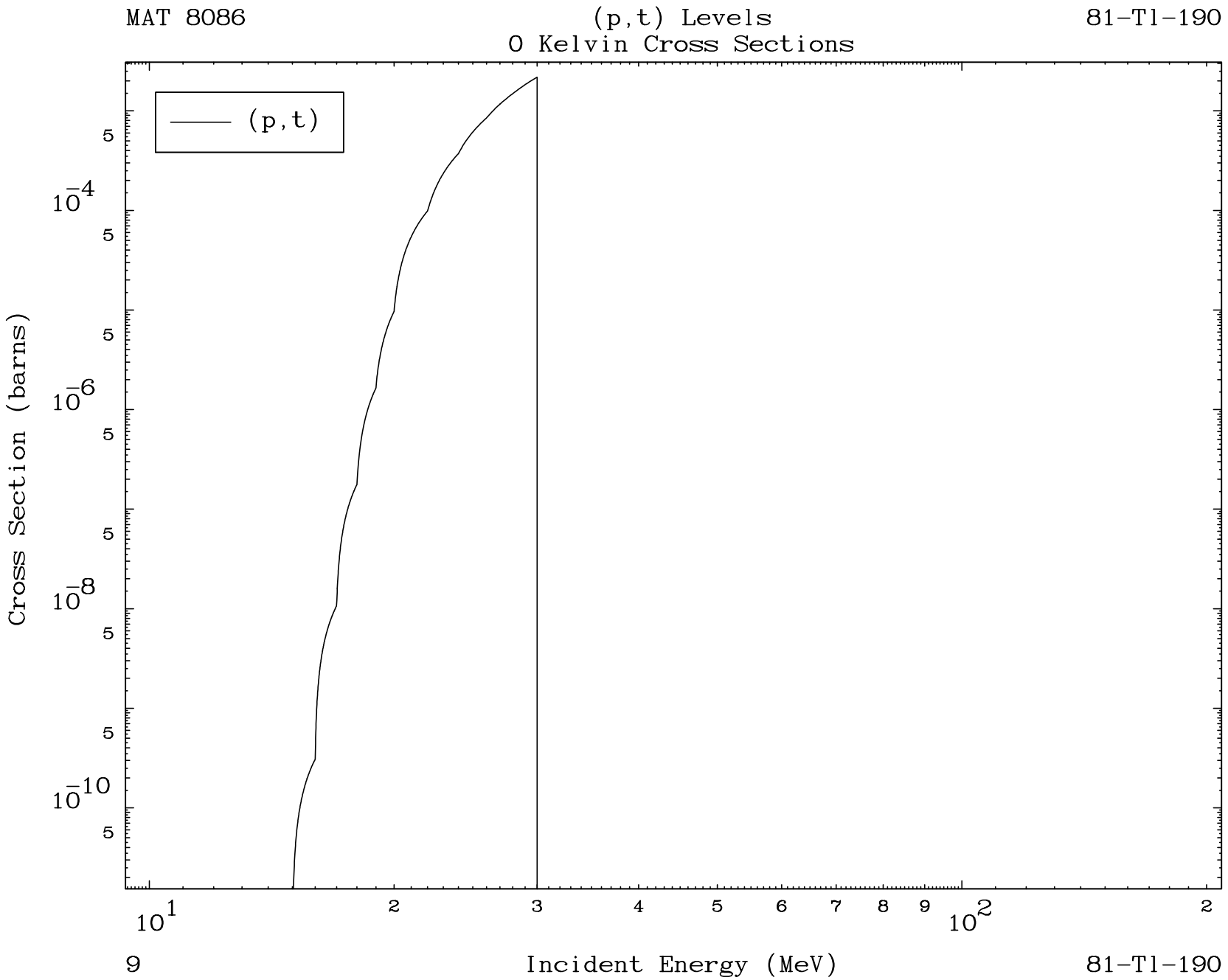

MAT 8086
Proton Charged Particle
0 Kelvin Cross Sections
81-Tl-190
(p,n') α
(p,2n) α
(p,3n) α
(p,n') p
(p,n') 2α
(p,2n) 2α
(p,n') d
(p,n') t
(p,n') He-3
(p,2n) p
(p,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
81-Tl-190

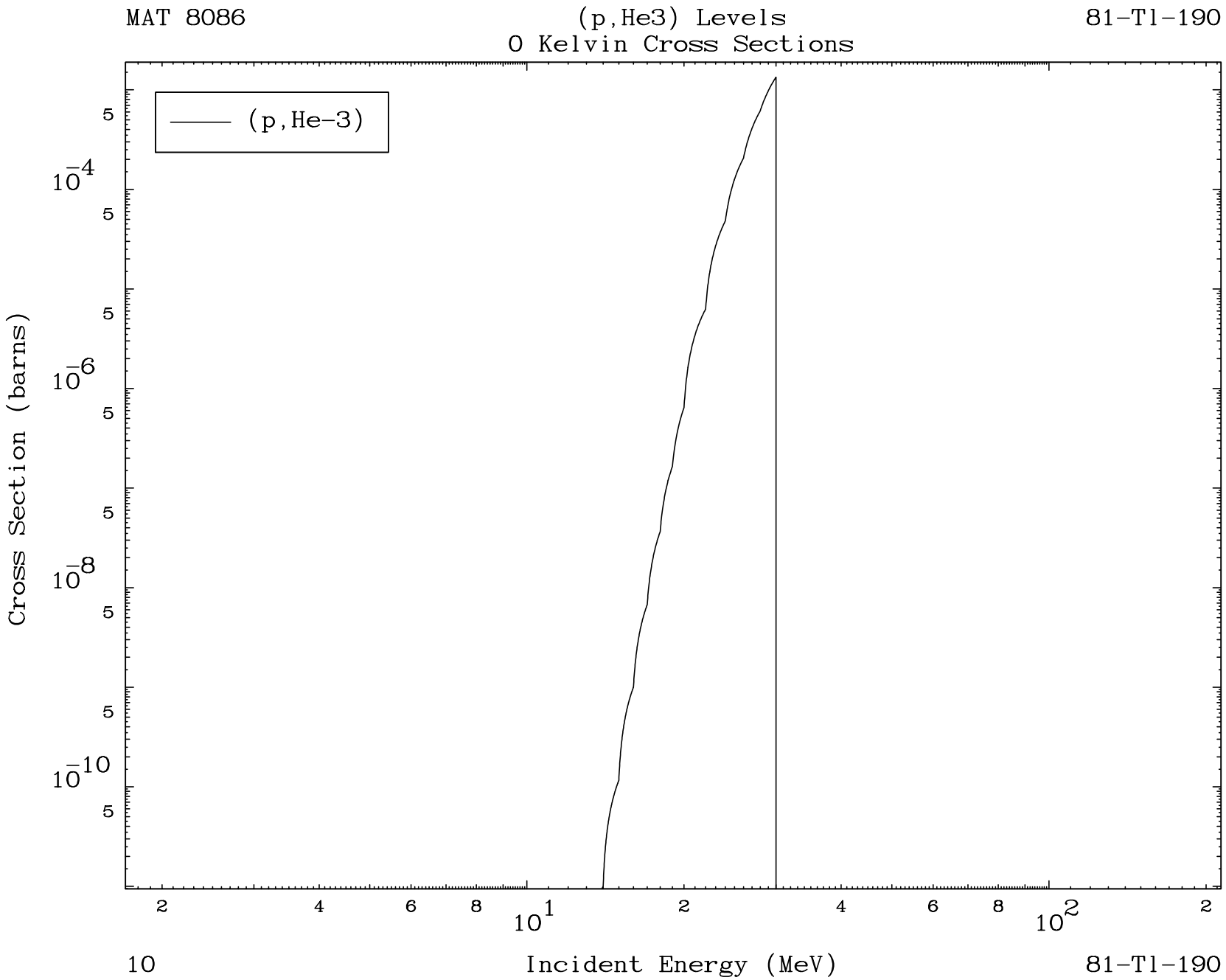

MAT 8086
Proton Charged Particle
0 Kelvin Cross Sections
81-Tl-190
(p,p)
(p,d)
(p,t)
(p,He-3)
(p,α)
(p,2α)
(p,3α)
(p,2p)
(p,p) α
(p,p) d
(p,p) t
Cross Section (barns)
Incident Energy (MeV)
81-Tl-190

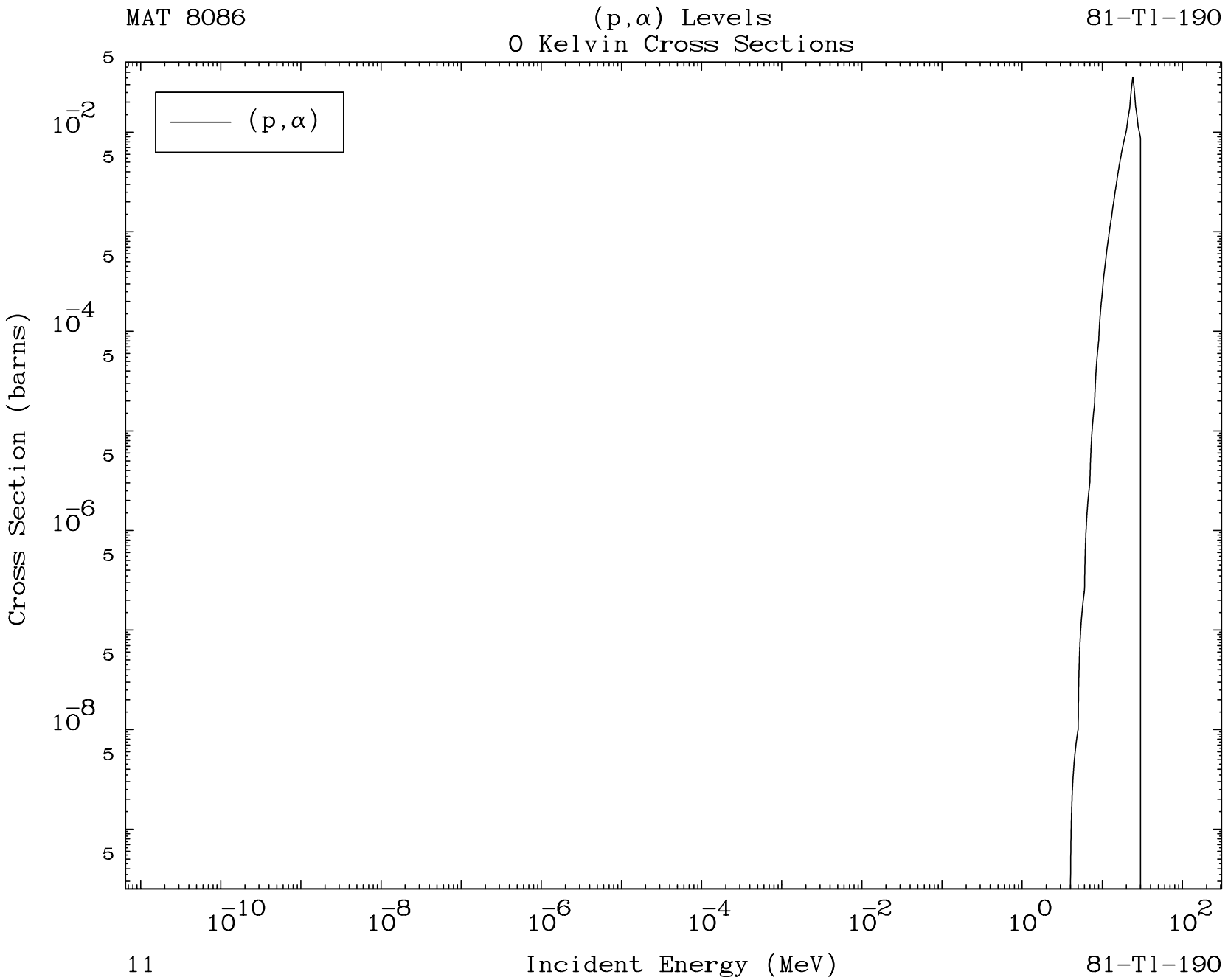

MAT 8086
(p,n') Level
81-Tl-190
0 Kelvin Cross Sections
Proton Inelastic
Cross Section (barns)
Incident Energy (MeV)
6
81-Tl-190

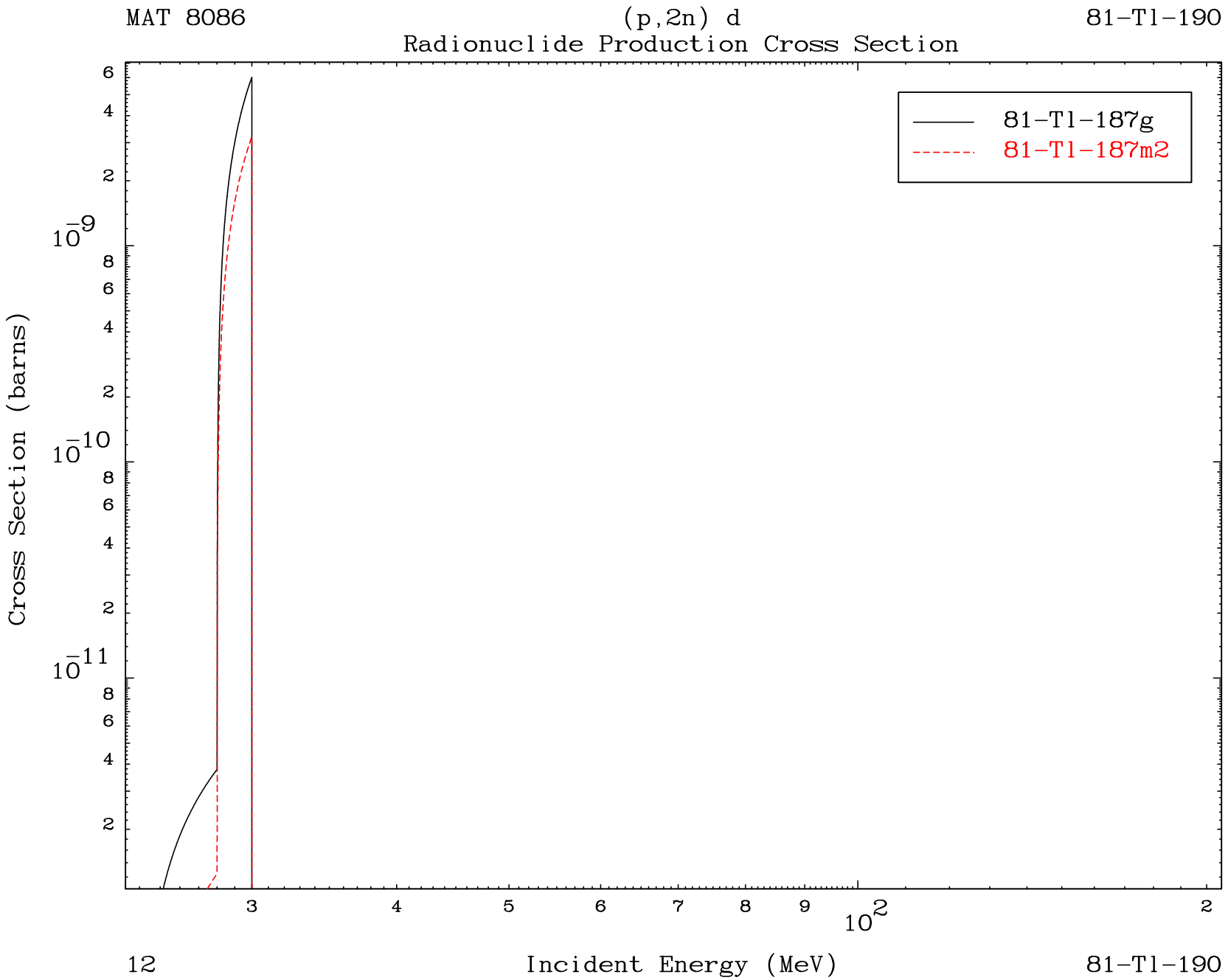

MAT 8086
(p,p) Levels
81-Tl-190
0 Kelvin Cross Sections
(p,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
101
102
2
4
6
8
Incident Energy (MeV)
7
81-Tl-190

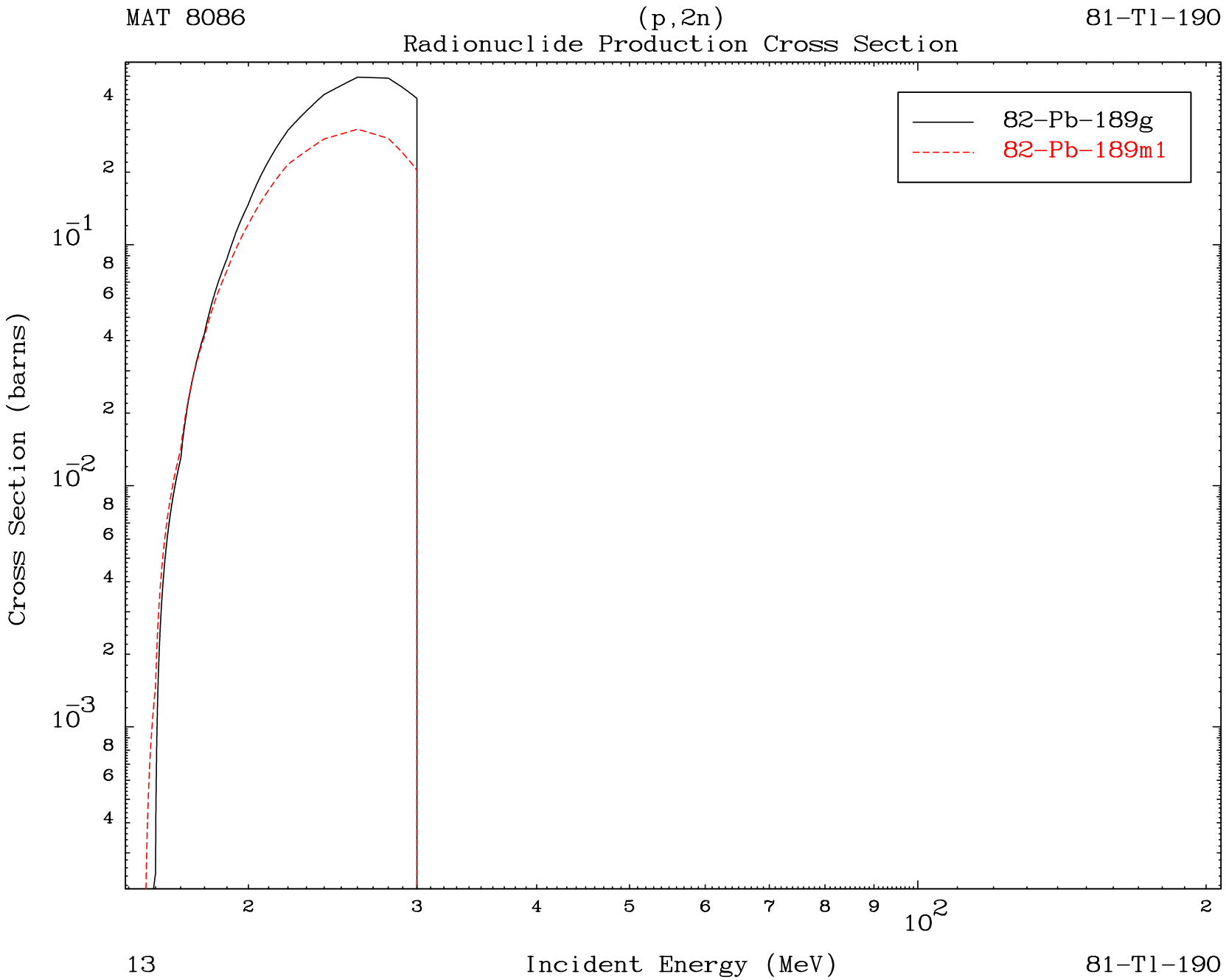

MAT 8086
(p,d) Levels
81-Tl-190
0 Kelvin Cross Sections
(p,d)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
6 7 8 9 101 2 3 4 5 6 7 8 9 102 2
Incident Energy (MeV)
8
81-Tl-190

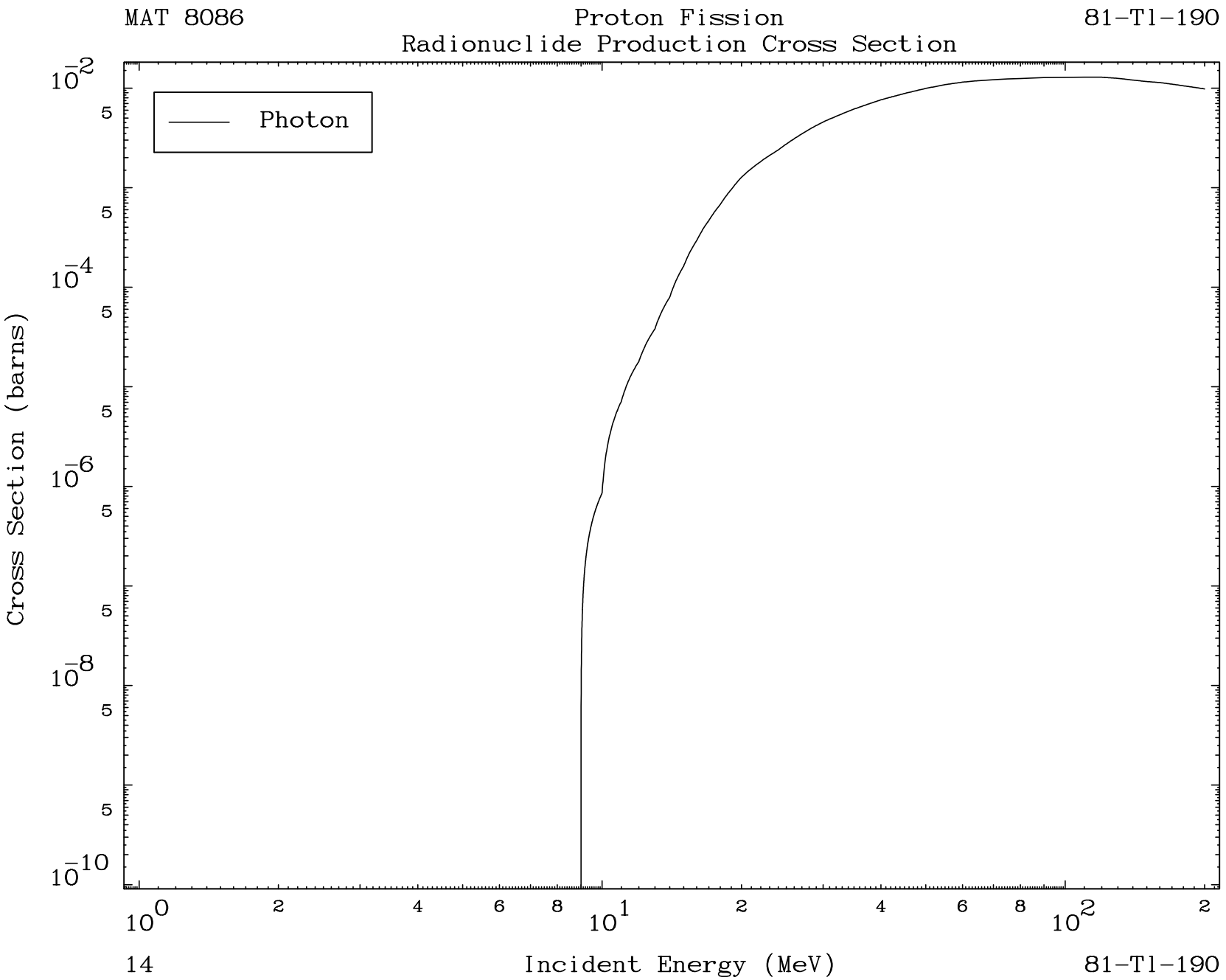

MAT 8086
(p,t) Levels
81-Tl-190
0 Kelvin Cross Sections
(p,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
9
81-Tl-190

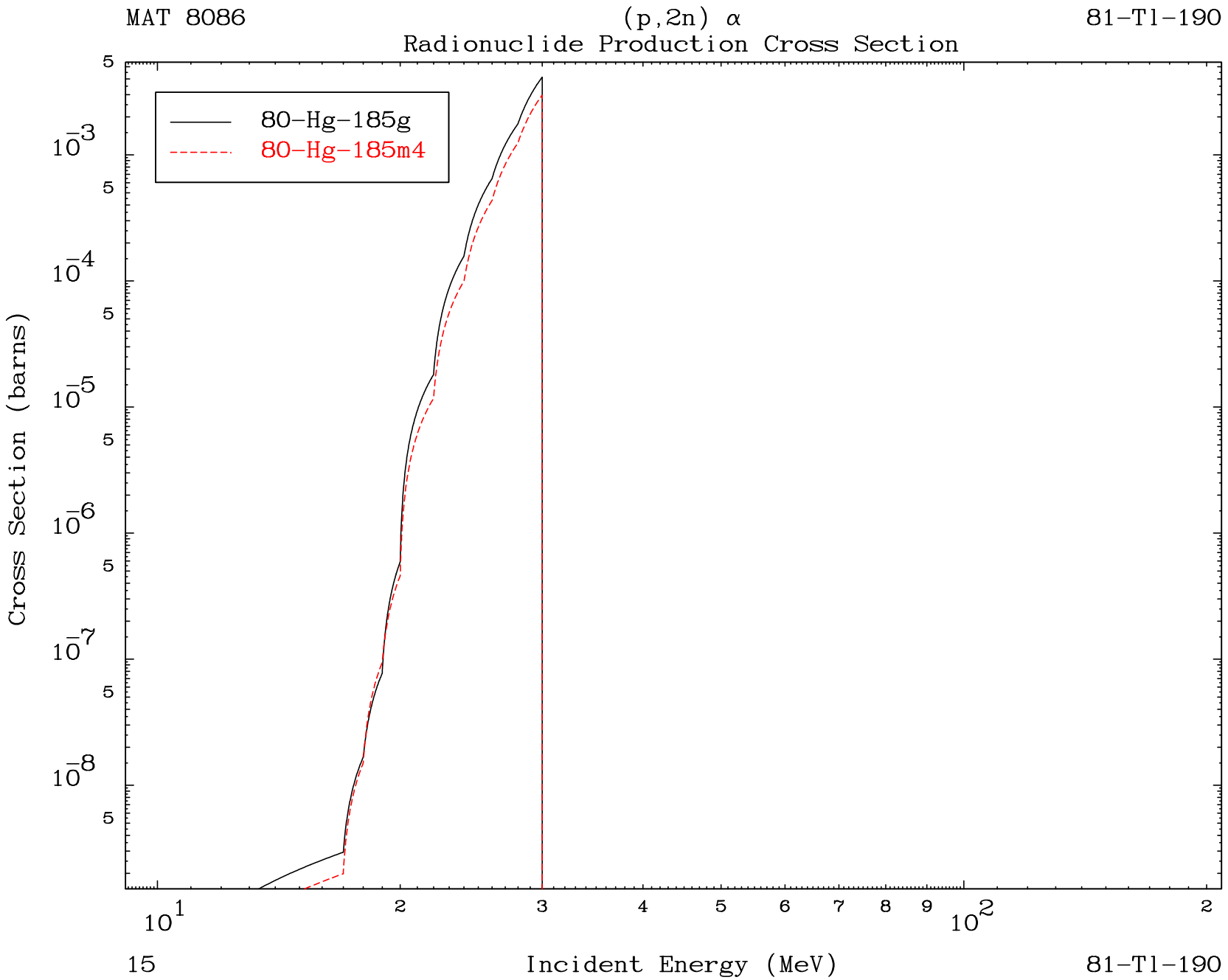

MAT 8086
(p,He3) Levels
81-Tl-190
0 Kelvin Cross Sections
(p,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
4
6
8
10^1
10^2
10
Incident Energy (MeV)
81-Tl-190

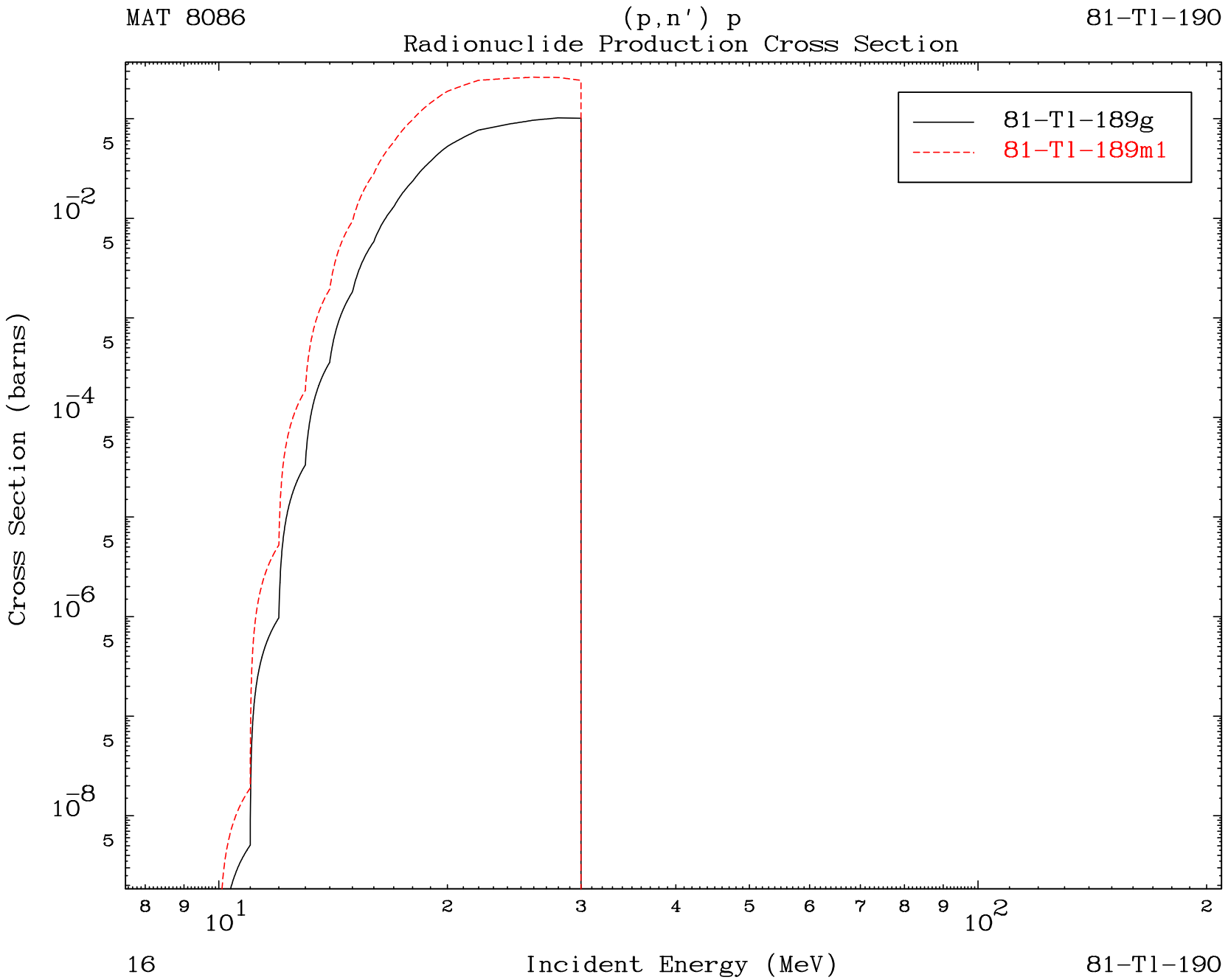

MAT 8086
(p,α) Levels
81-Tl-190
0 Kelvin Cross Sections
(p,α)
Cross Section (barns)
Incident Energy (MeV)
11
81-Tl-190

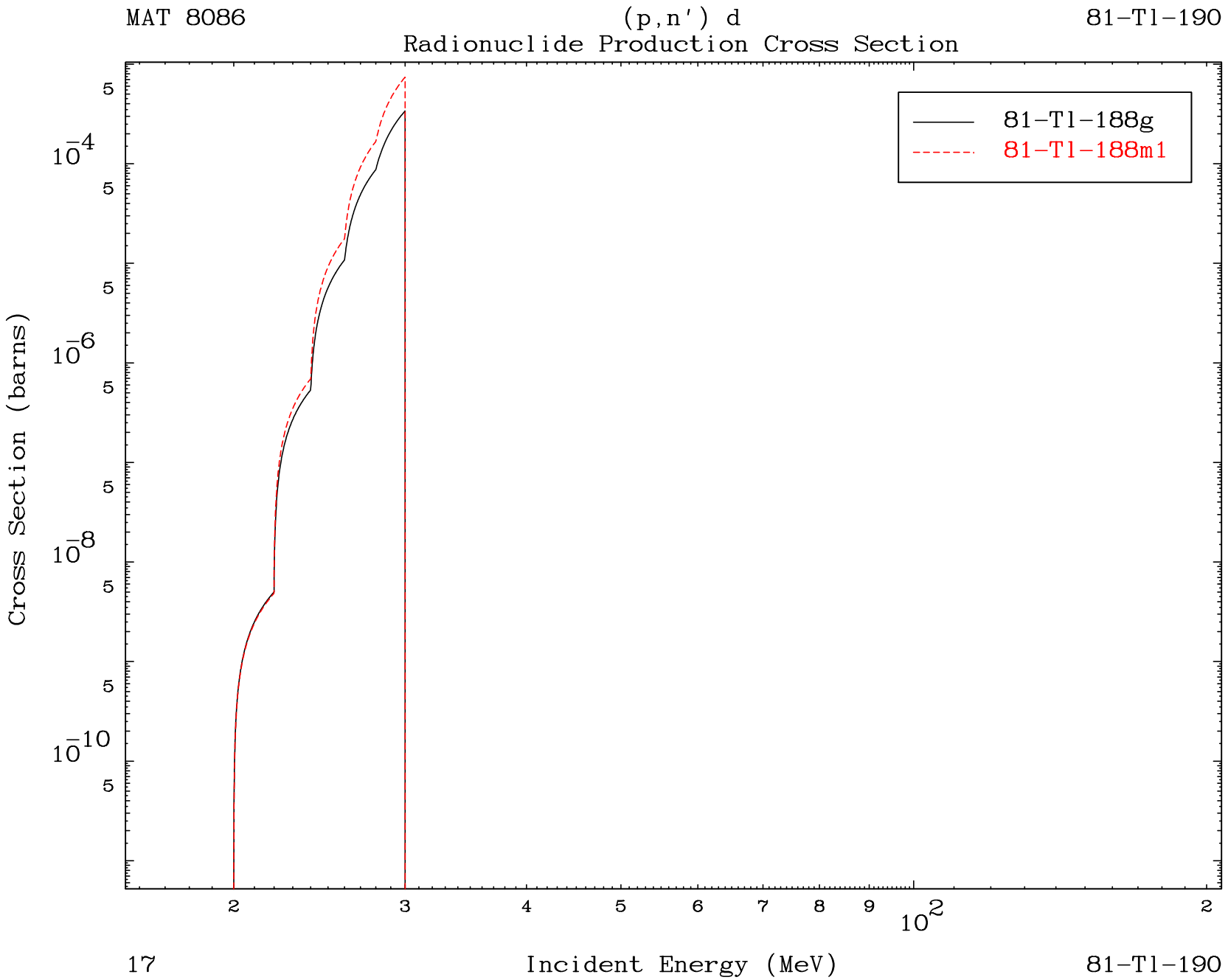

MAT 8086
(p,2n) d
81-Tl-190
Radionuclide Production Cross Section
81-Tl-187g
81-Tl-187m2
Cross Section (barns)
Incident Energy (MeV)
12
81-Tl-190

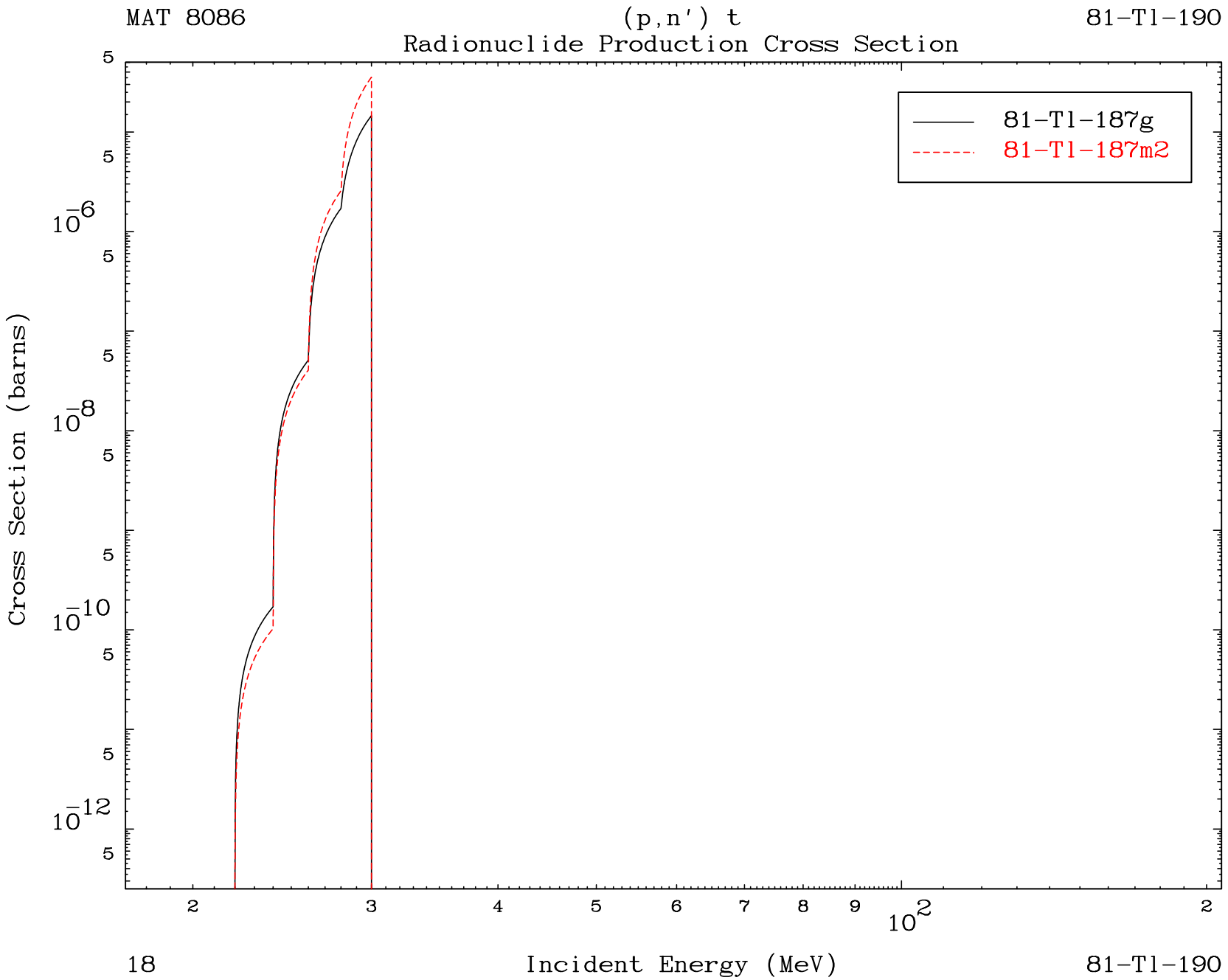

MAT 8086
(p,2n)
81-Tl-190
Radionuclide Production Cross Section
82-Pb-189g
82-Pb-189m1
Cross Section (barns)
Incident Energy (MeV)
13
81-Tl-190

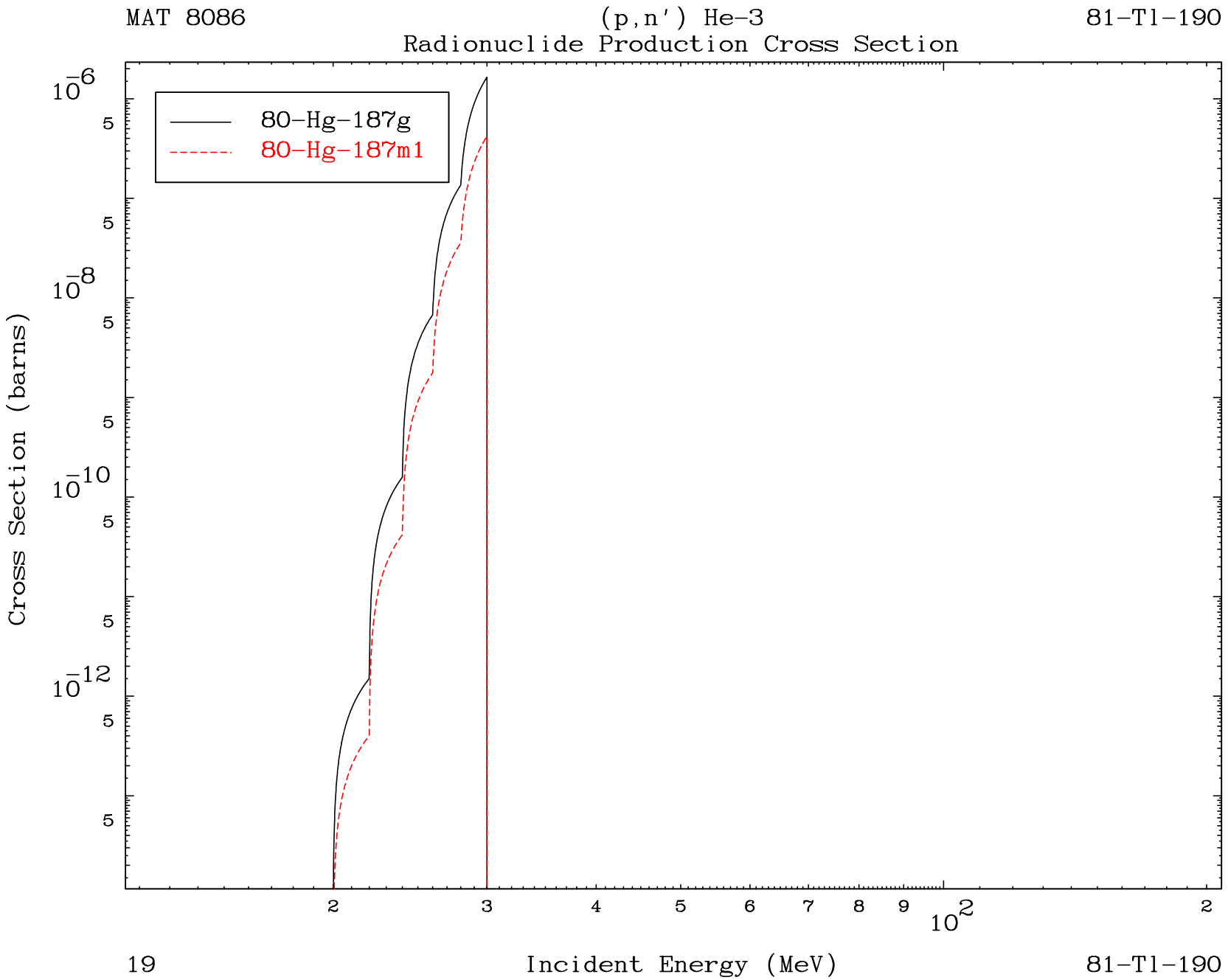

MAT 8086
Proton Fission
81-Tl-190
Radionuclide Production Cross Section
Photon
Cross Section (barns)
Incident Energy (MeV)
14
81-Tl-190

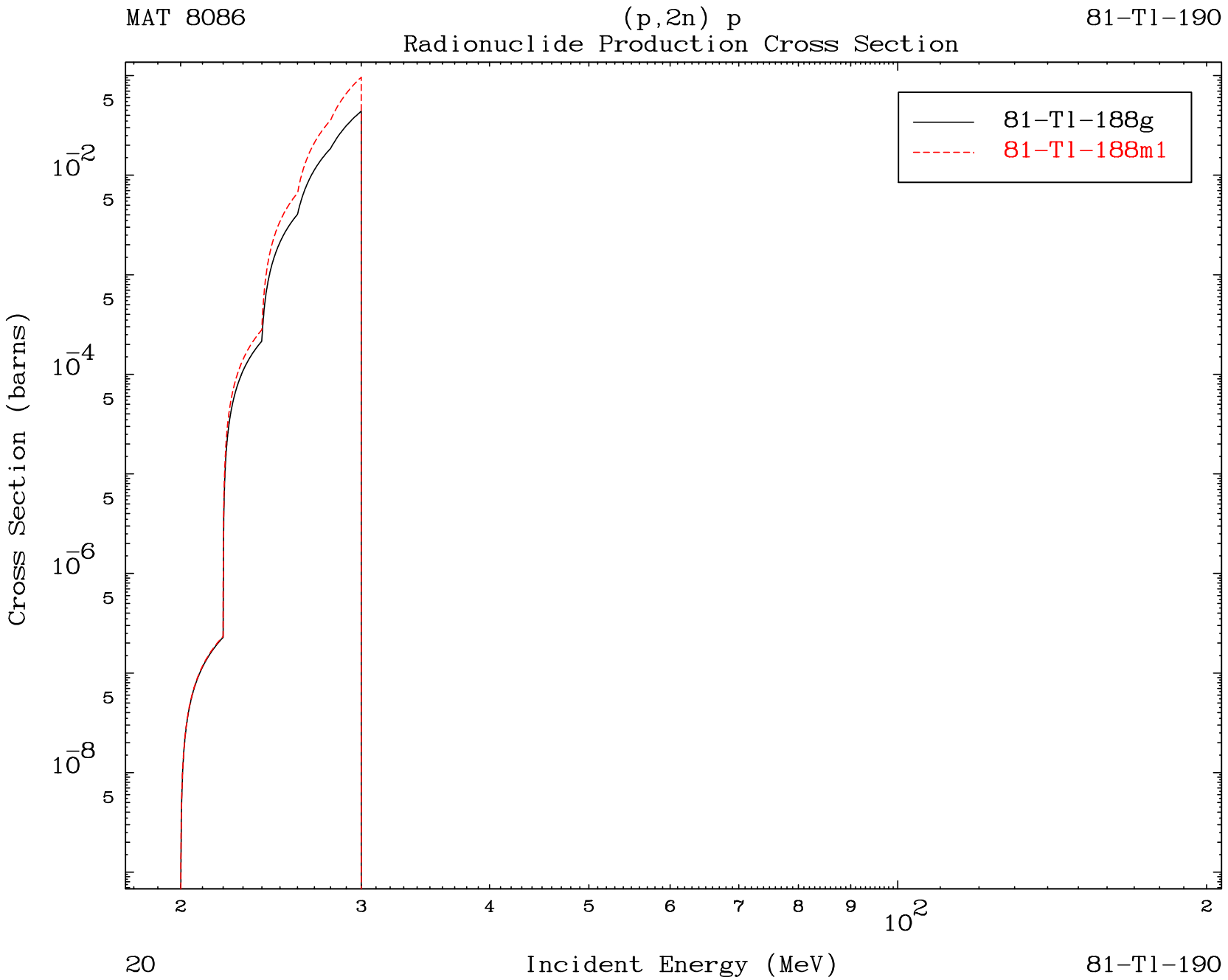

MAT 8086
(p,2n) α
81-Tl-190
Radionuclide Production Cross Section
80-Hg-185g
80-Hg-185m4
Cross Section (barns)
Incident Energy (MeV)
15
81-Tl-190

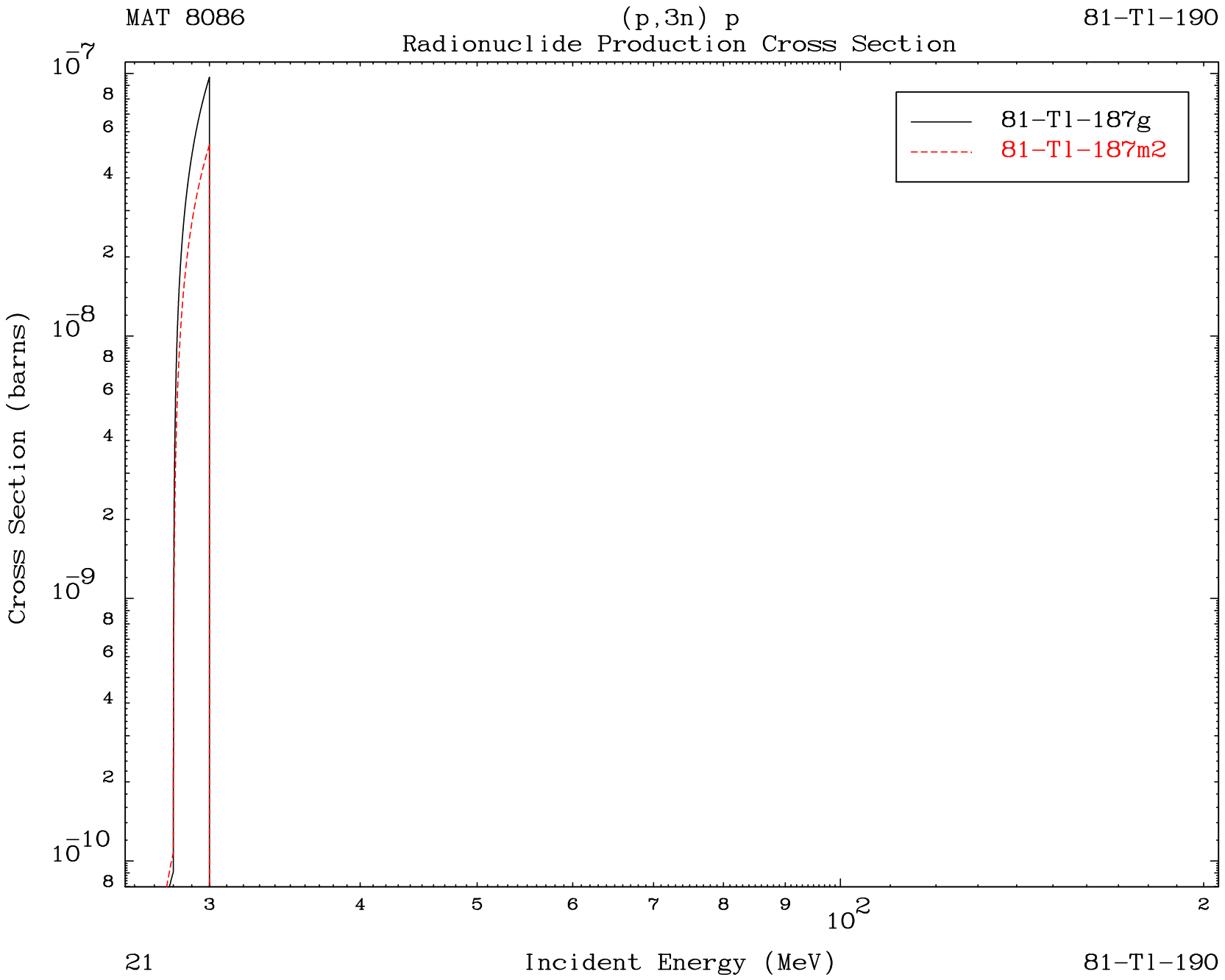

MAT 8086
(p,n') p
81-Tl-190
Radionuclide Production Cross Section
81-Tl-189g
81-Tl-189m1
Cross Section (barns)
10-2
10-4
10-6
10-8
8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
16
Incident Energy (MeV)
81-Tl-190

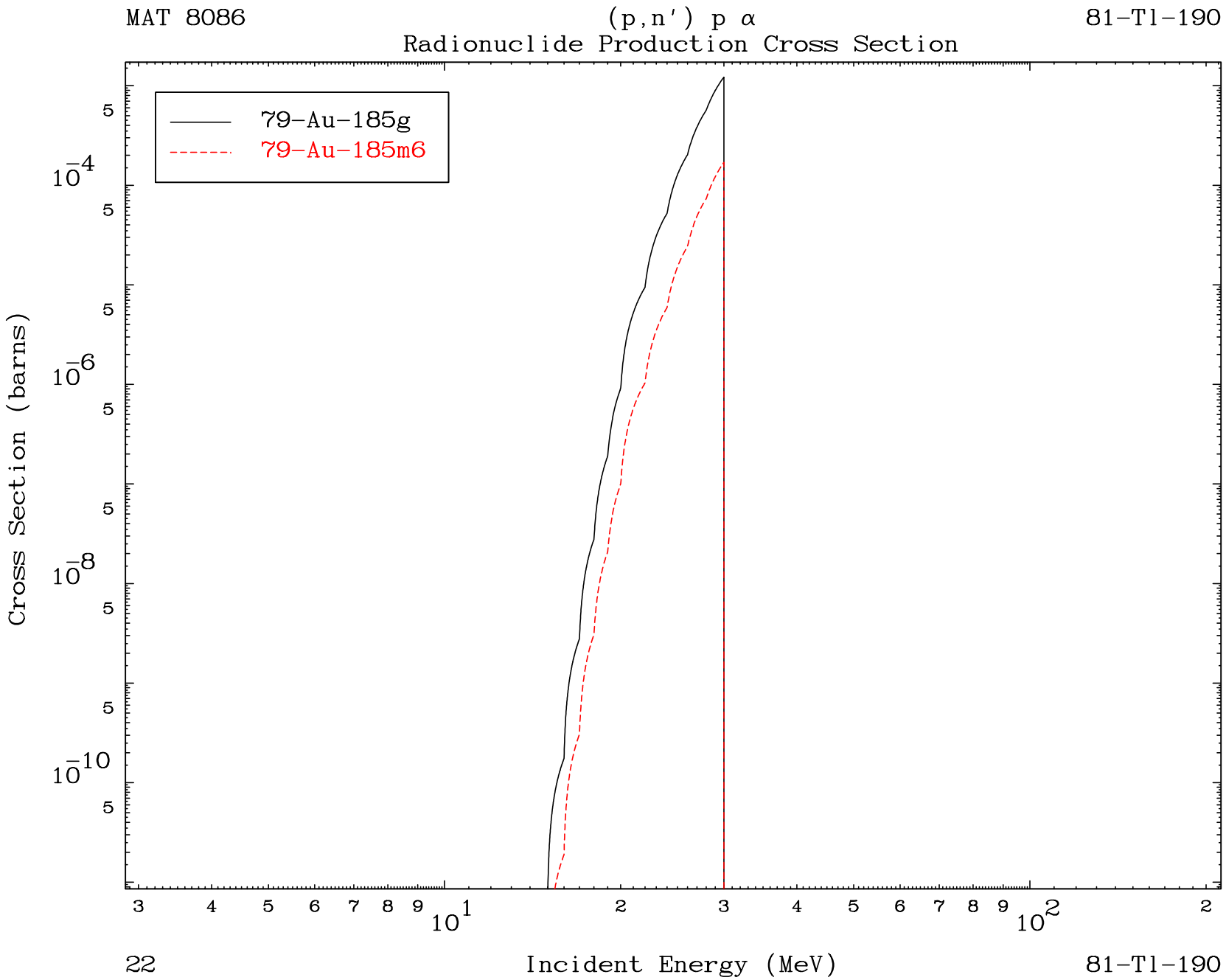

MAT 8086
(p,n') d
81-Tl-190
Radionuclide Production Cross Section
81-Tl-188g
81-Tl-188m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
81-Tl-190

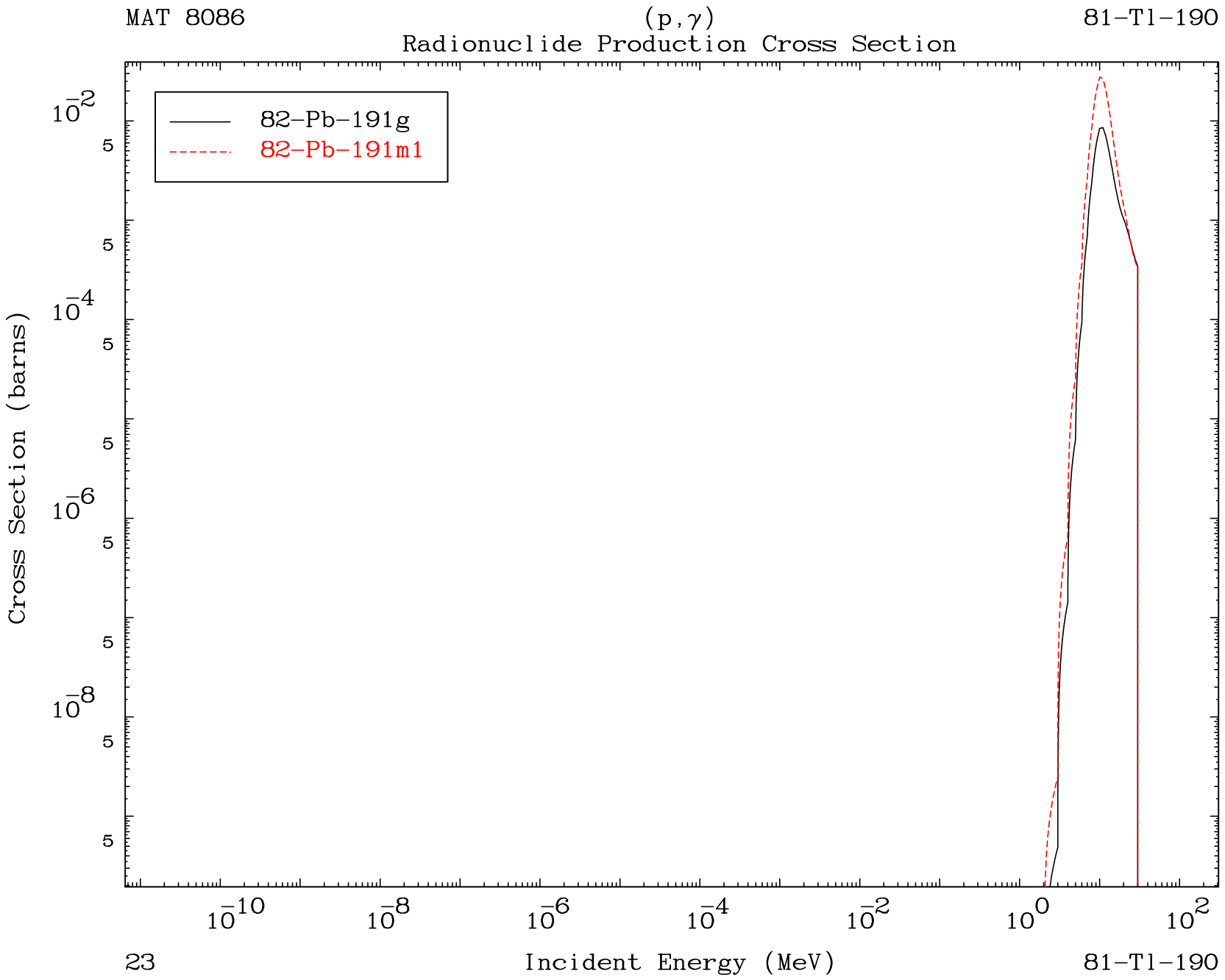

MAT 8086
(p,n') t
81-Tl-190
Radionuclide Production Cross Section
81-Tl-187g
81-Tl-187m2
Cross Section (barns)
Incident Energy (MeV)
18
81-Tl-190

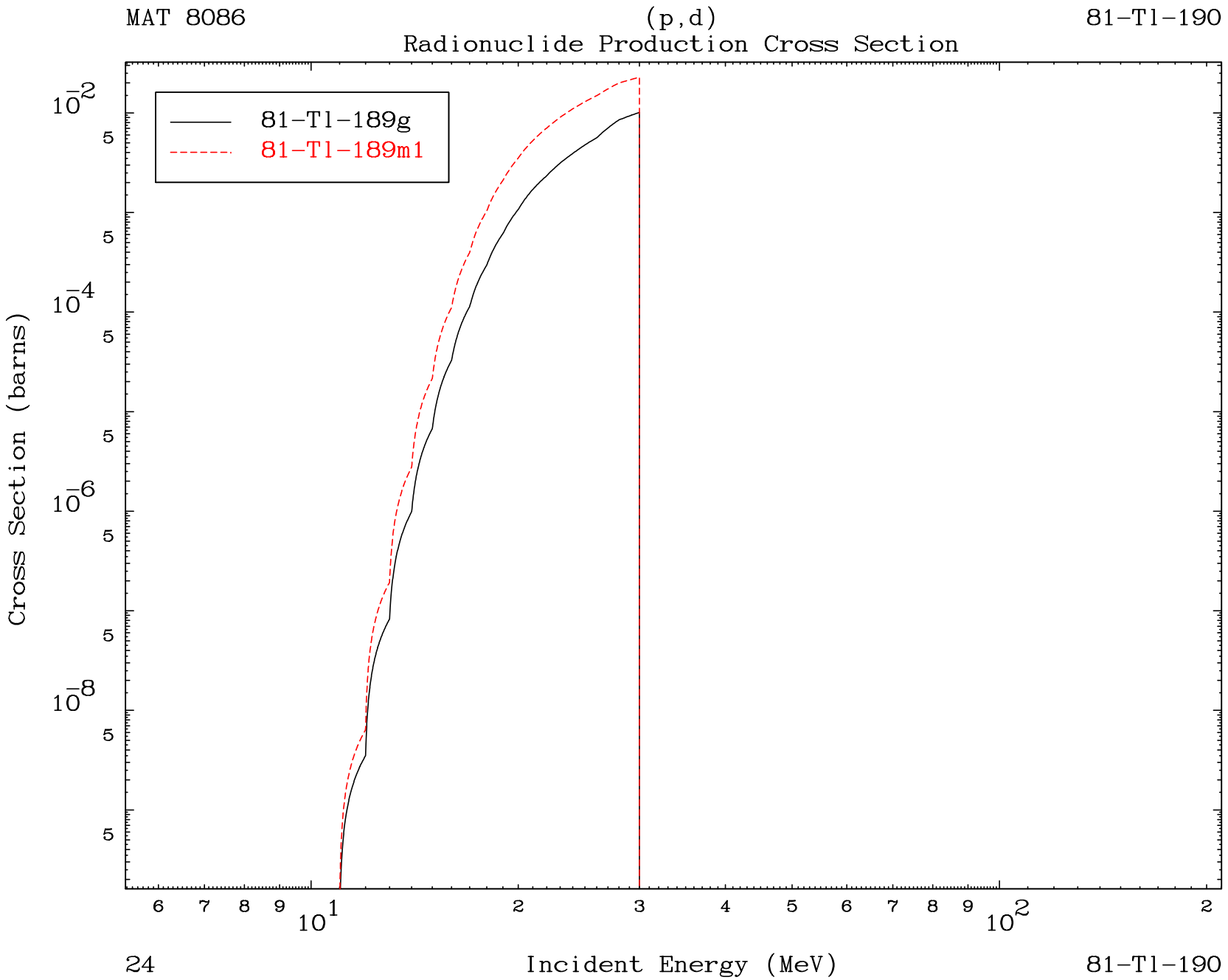

MAT 8086
(p,n') He-3
81-Tl-190
Radionuclide Production Cross Section
80-Hg-187g
80-Hg-187m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
81-Tl-190

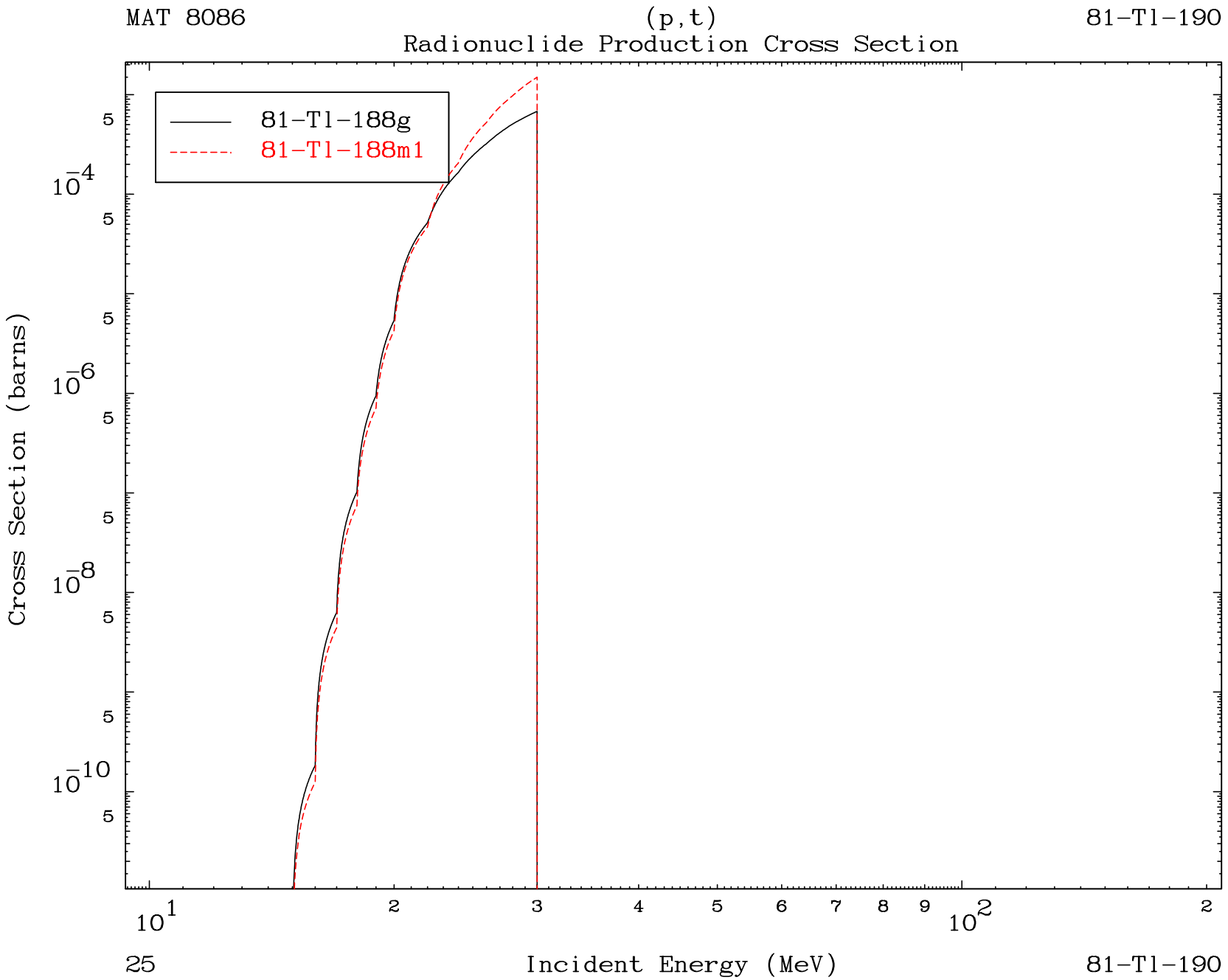

MAT 8086
(p,2n) p
81-Tl-190
Radionuclide Production Cross Section
81-Tl-188g
81-Tl-188m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10^2
2
20
Incident Energy (MeV)
81-Tl-190

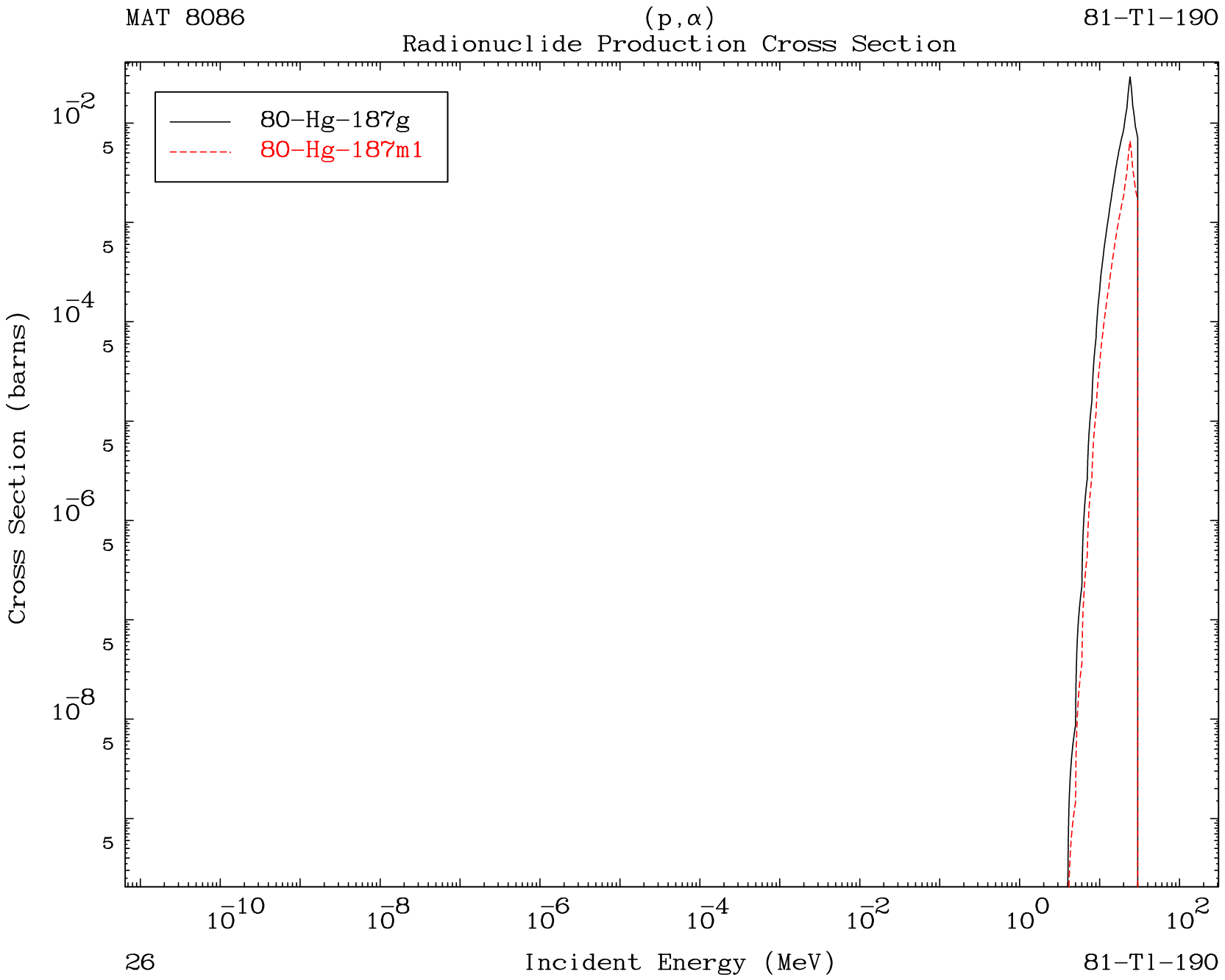

MAT 8086
(p,3n) p
81-Tl-190
Radionuclide Production Cross Section
81-Tl-187g
81-Tl-187m2
Cross Section (barns)
Incident Energy (MeV)
21
81-Tl-190

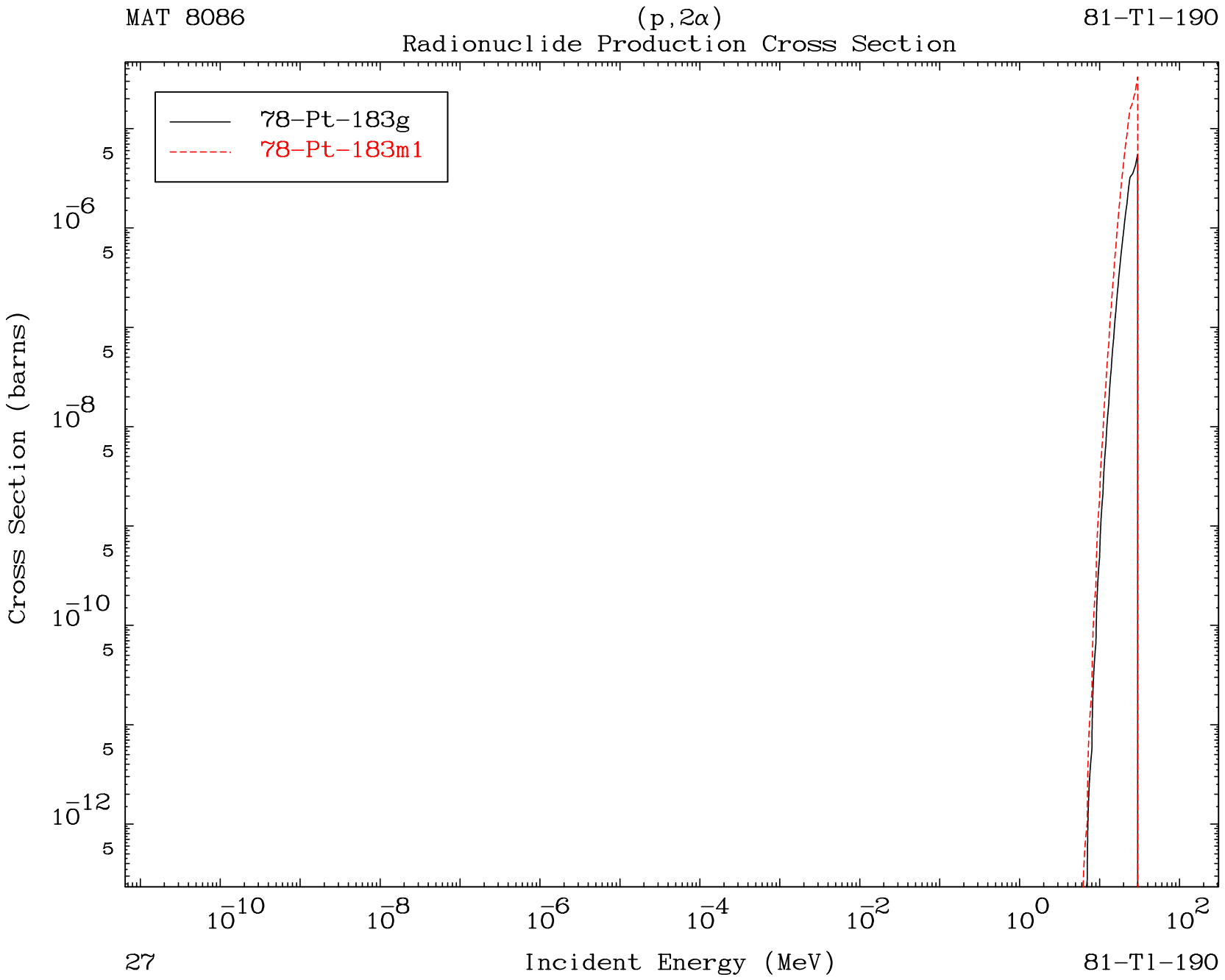

MAT 8086
(p,n') p α
81-Tl-190
Radionuclide Production Cross Section
79-Au-185g
79-Au-185m6
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
22
Incident Energy (MeV)
81-Tl-190

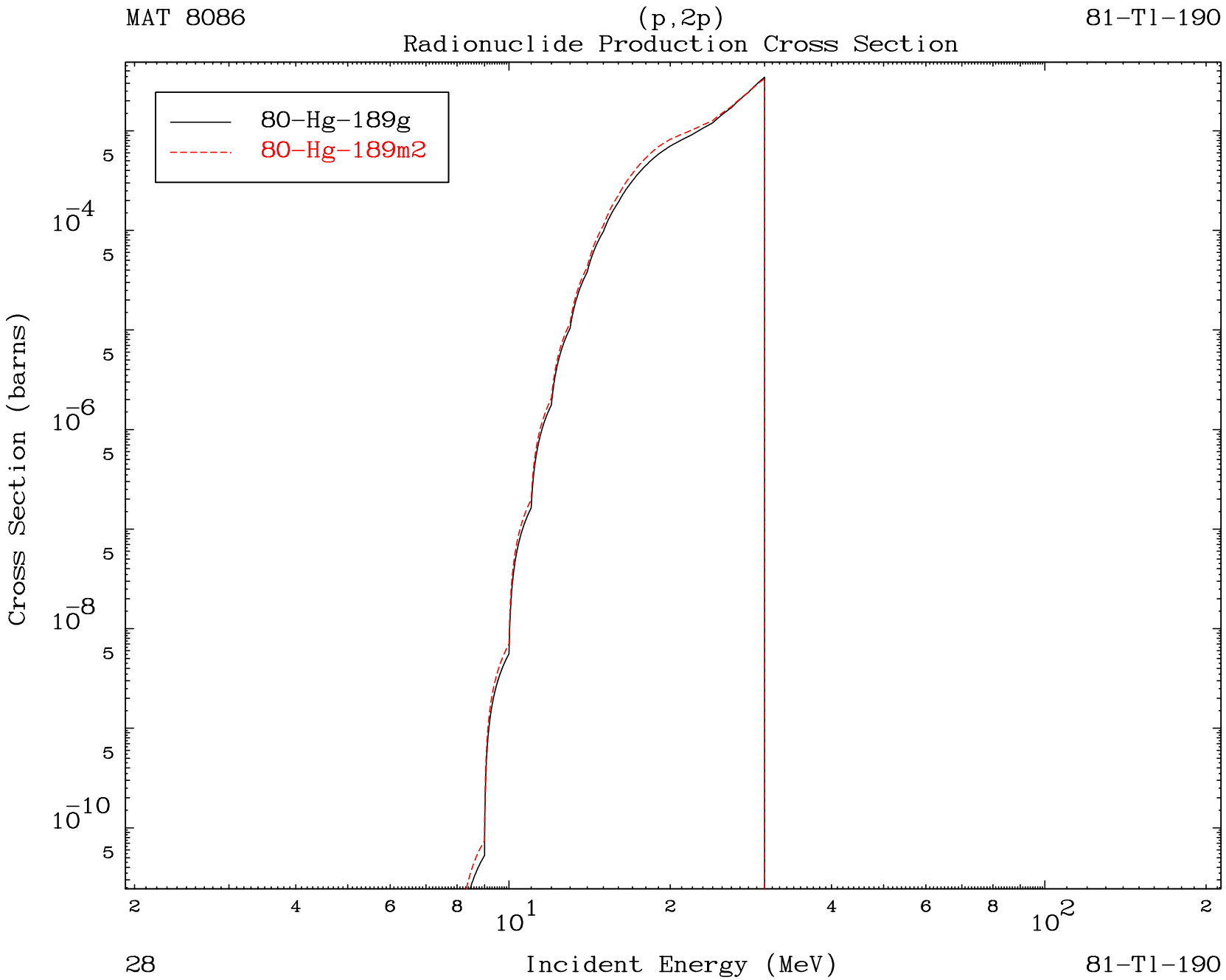

MAT 8086
(p,γ)
81-Tl-190
Radionuclide Production Cross Section
82-Pb-191g
82-Pb-191m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^0
10^2
Incident Energy (MeV)
23
81-Tl-190

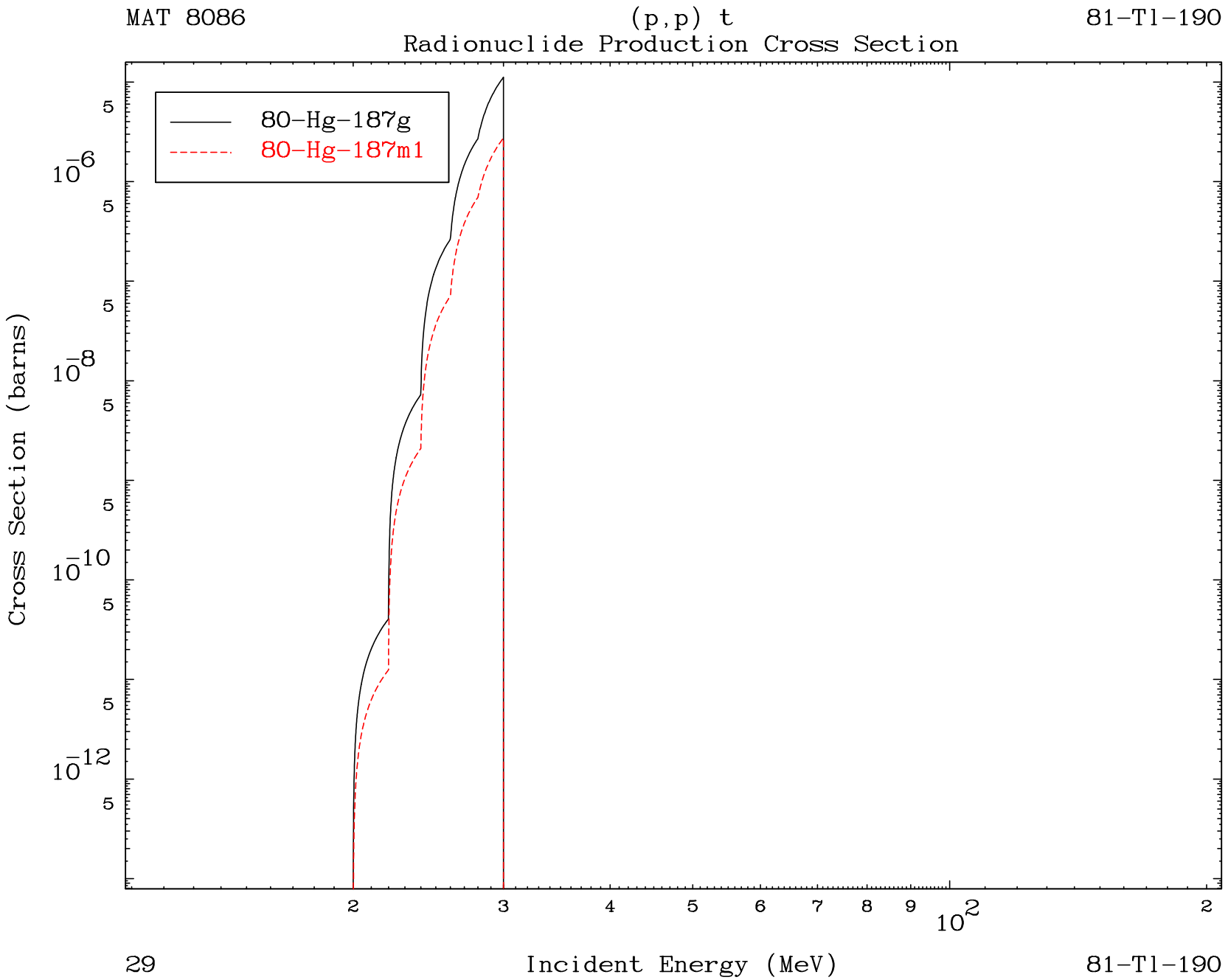

MAT 8086
(p,d)
81-Tl-190
Radionuclide Production Cross Section
81-Tl-189g
81-Tl-189m1
Cross Section (barns)
Incident Energy (MeV)
24
81-Tl-190

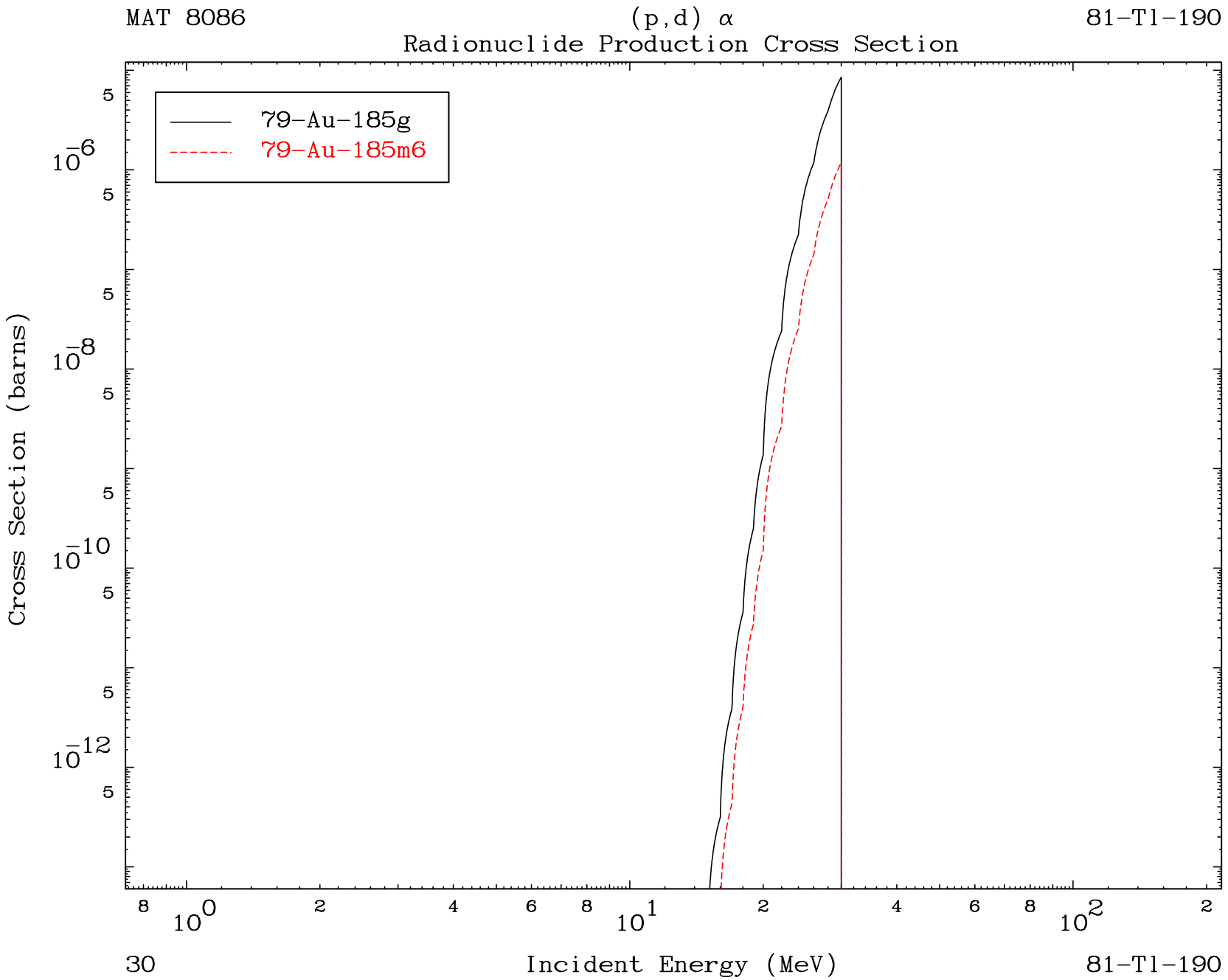

MAT 8086
(p,t)
81-Tl-190
Radionuclide Production Cross Section
81-Tl-188g
81-Tl-188m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
25
Incident Energy (MeV)
81-Tl-190


MAT 8086
(p,α)
81-Tl-190
Radionuclide Production Cross Section
80-Hg-187g
80-Hg-187m1
Cross Section (barns)
Incident Energy (MeV)
26
81-Tl-190


MAT 8086
(p,2α)
81-Tl-190
Radionuclide Production Cross Section
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
27
Incident Energy (MeV)
81-Tl-190


MAT 8086
(p,2p)
81-Tl-190
Radionuclide Production Cross Section
80-Hg-189g
80-Hg-189m2
Cross Section (barns)
10-4
10-6
10-8
10-10
10^1
10^2
Incident Energy (MeV)
28
81-Tl-190


MAT 8086
(p,p) t
81-Tl-190
Radionuclide Production Cross Section
80-Hg-187g
80-Hg-187m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
29
Incident Energy (MeV)
81-Tl-190


MAT 8086
(p,d) α
81-Tl-190
Radionuclide Production Cross Section
79-Au-185g
79-Au-185m6
Cross Section (barns)
Incident Energy (MeV)
30
81-Tl-190