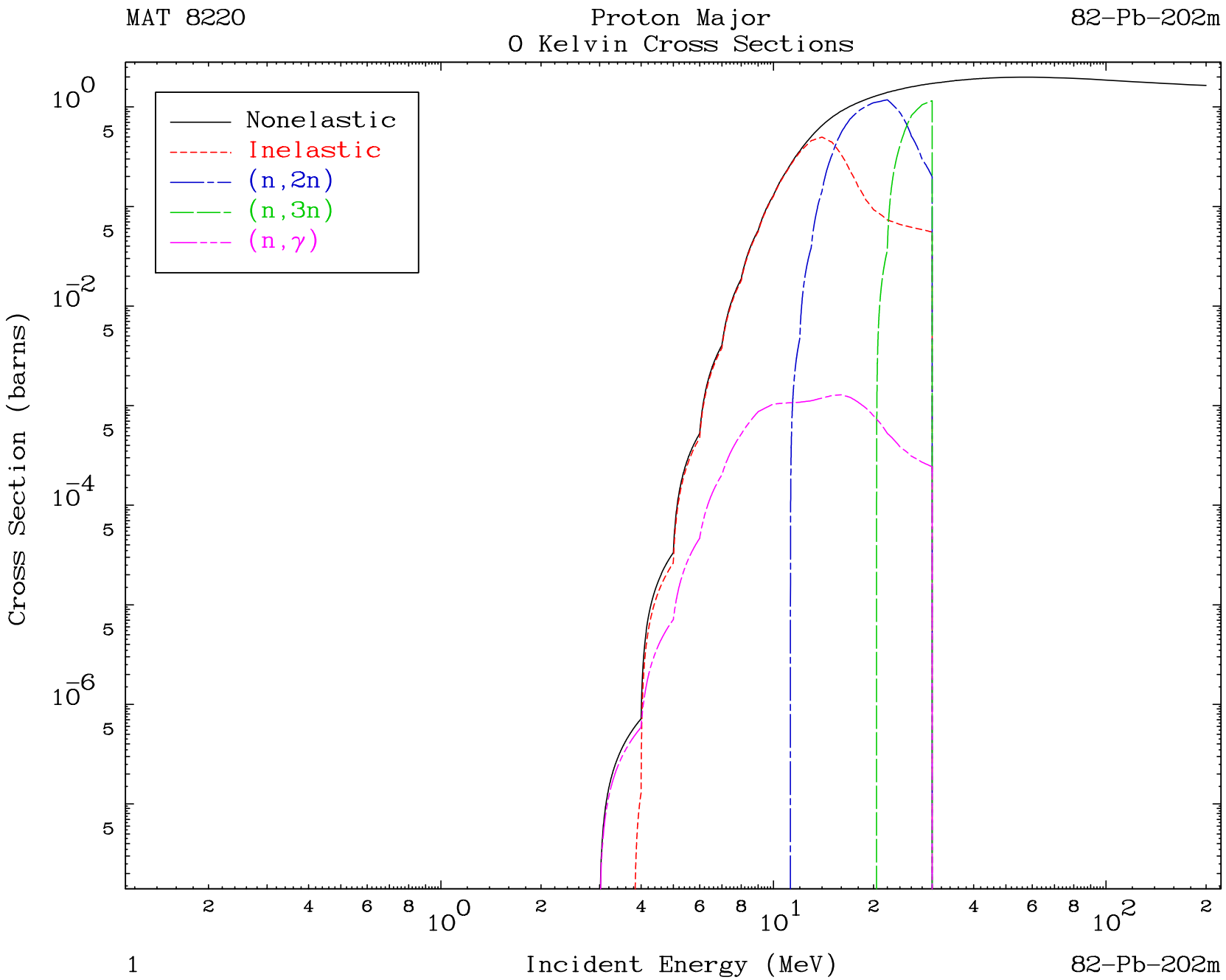
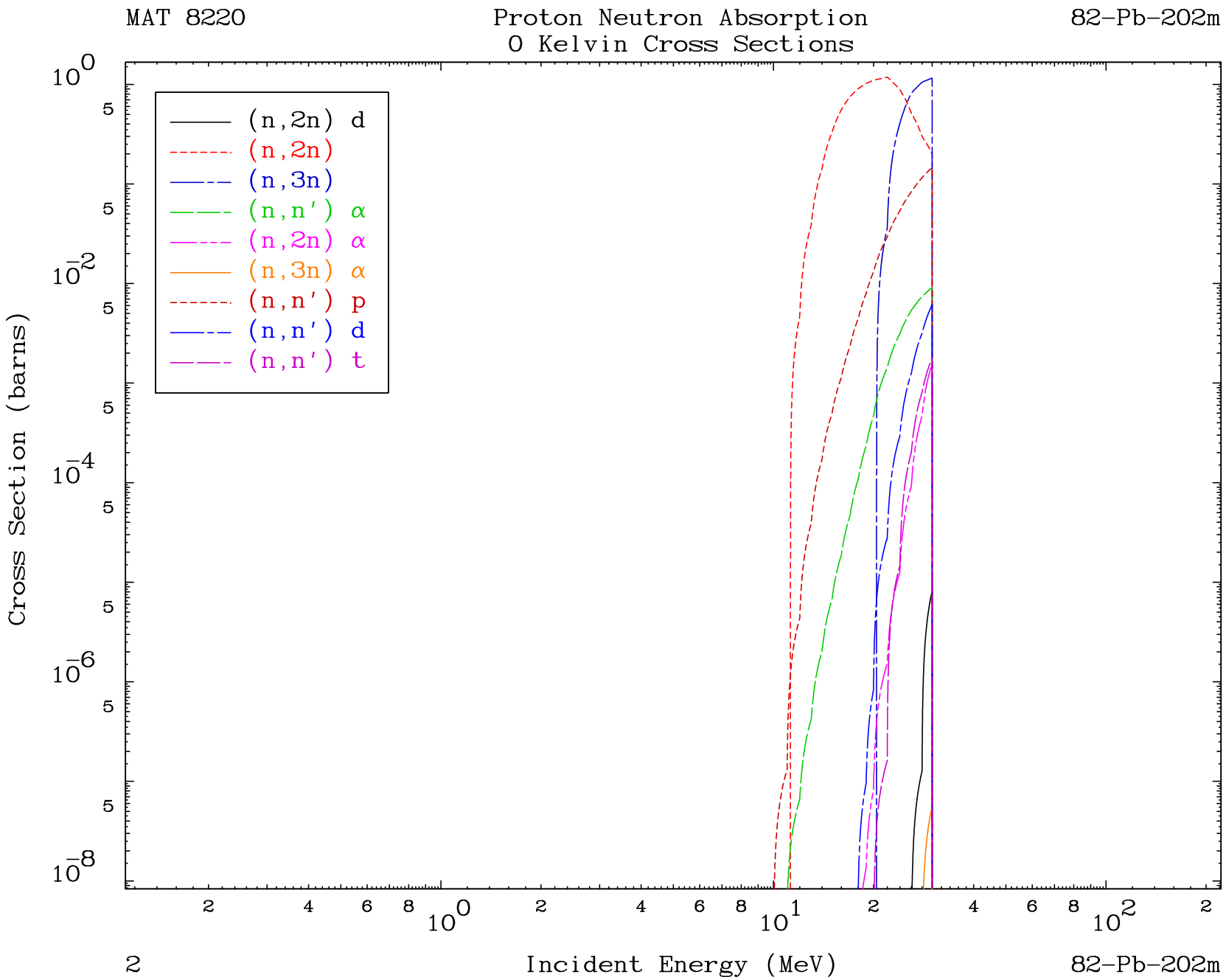
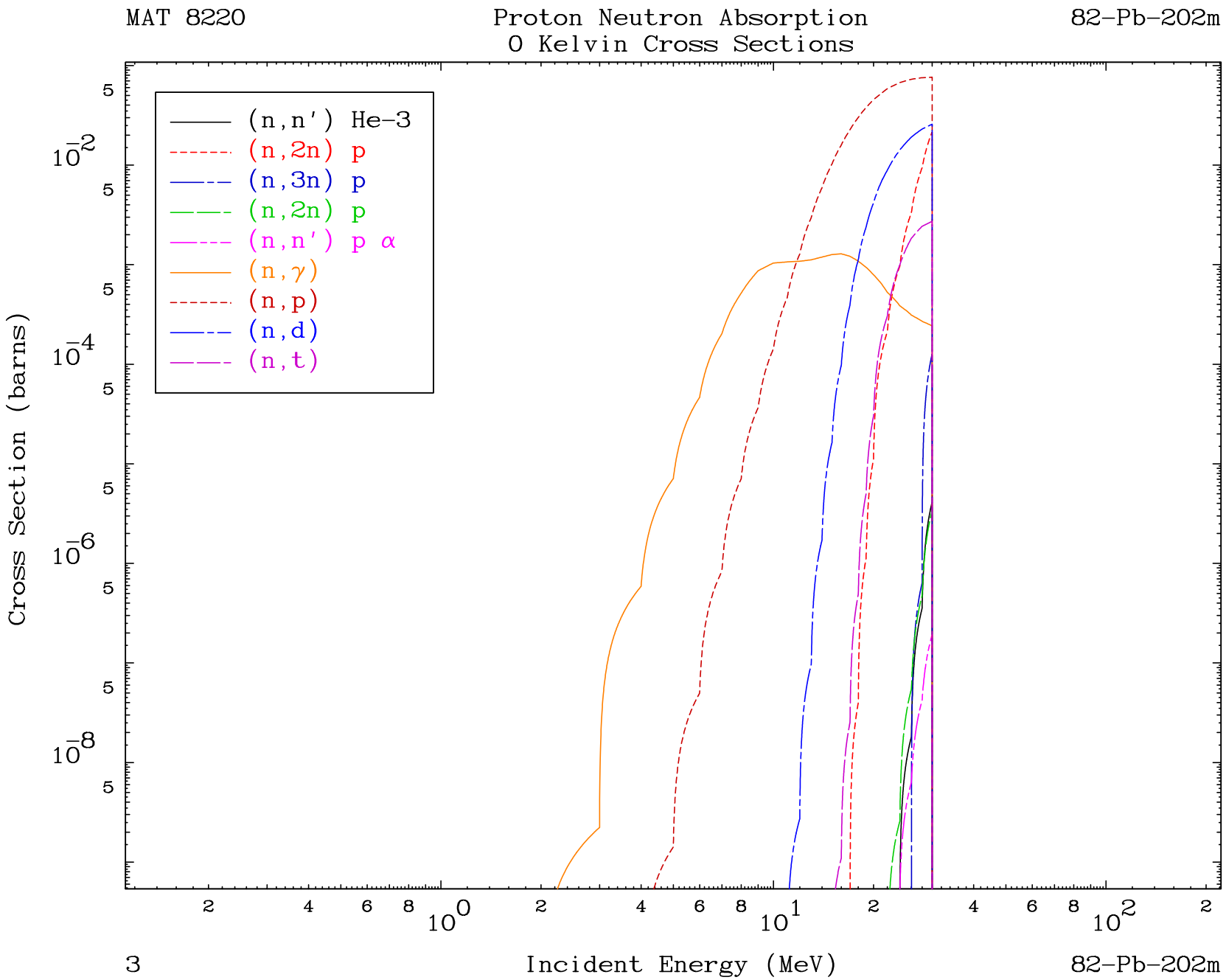
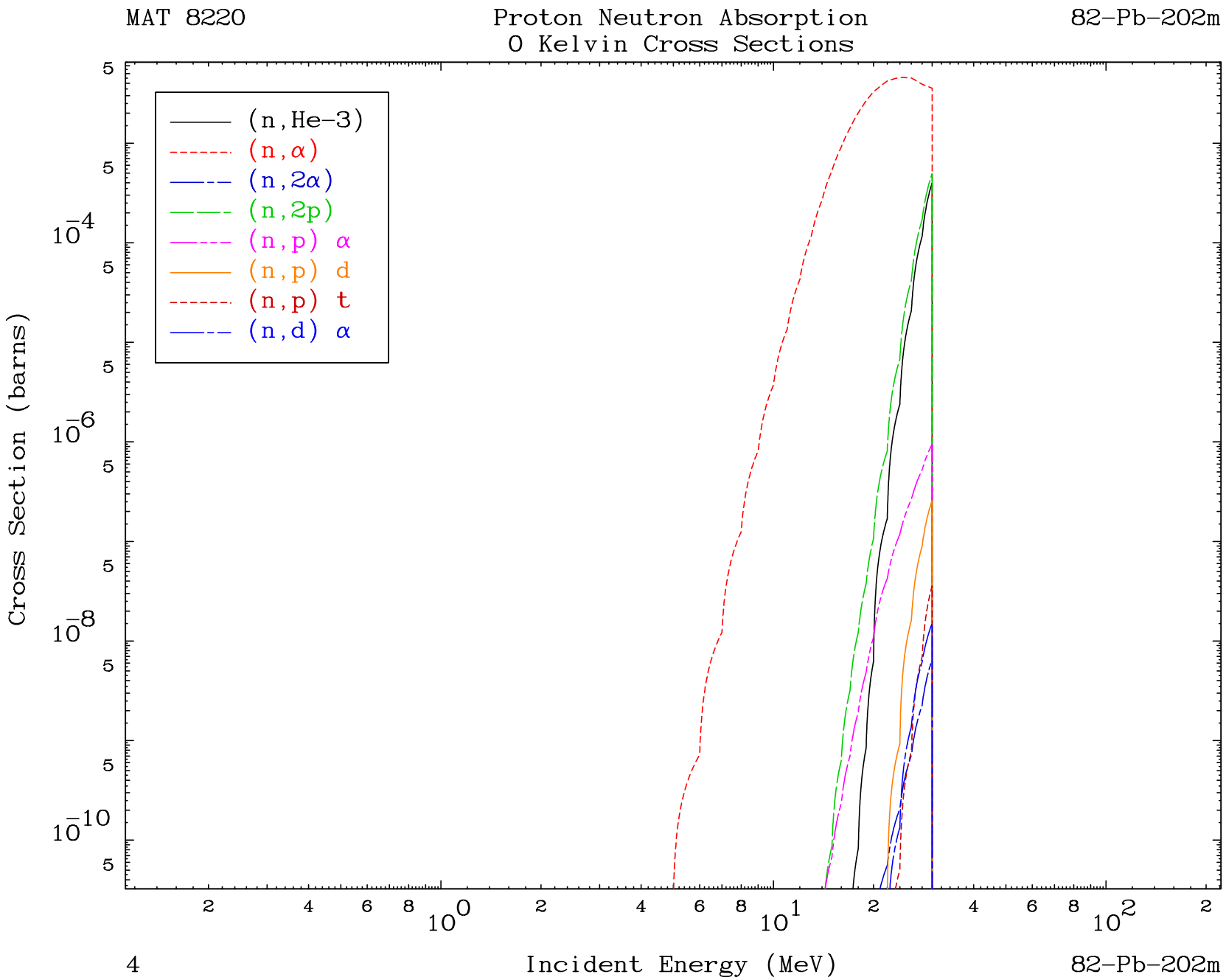
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

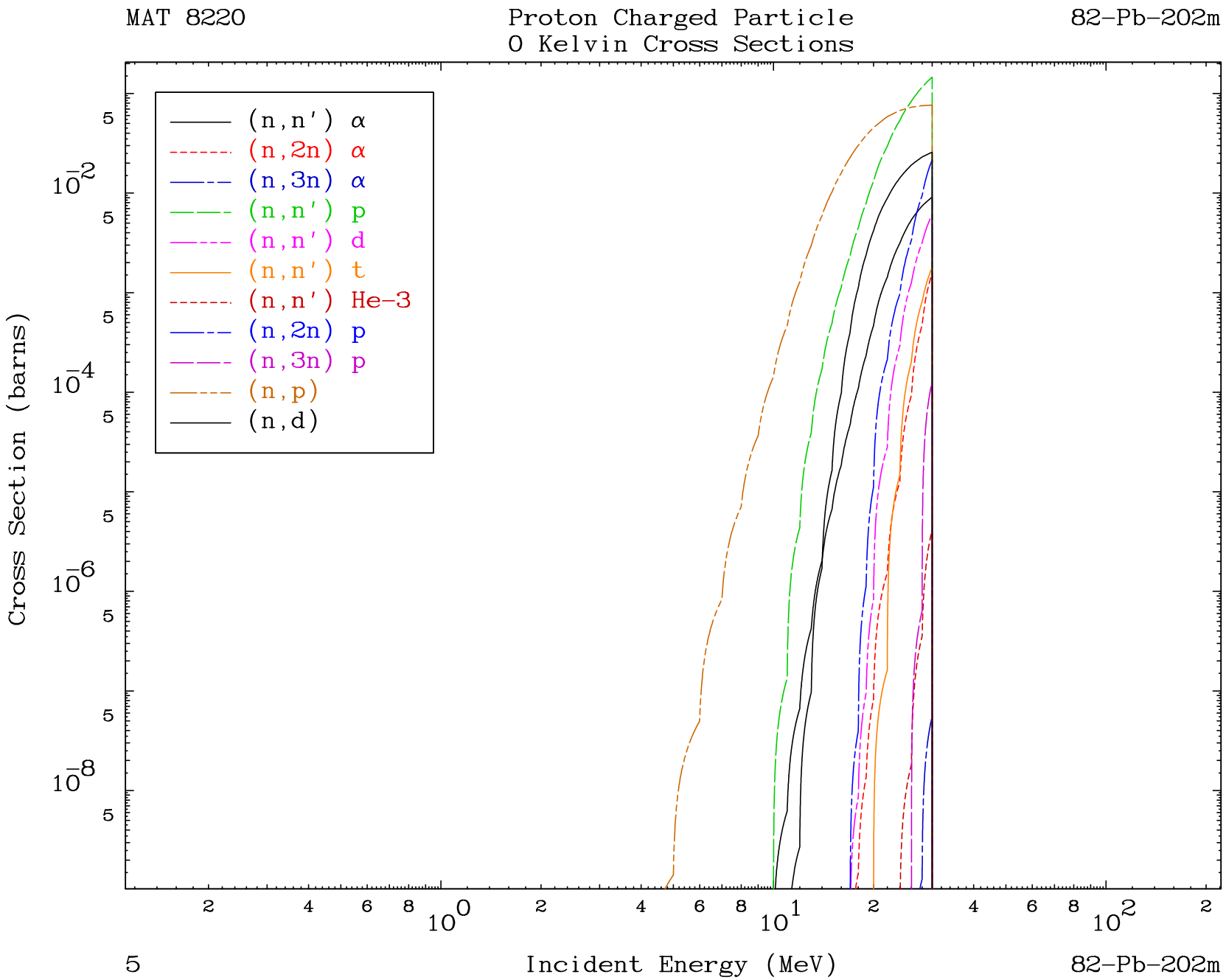
Press Mouse Button to Start

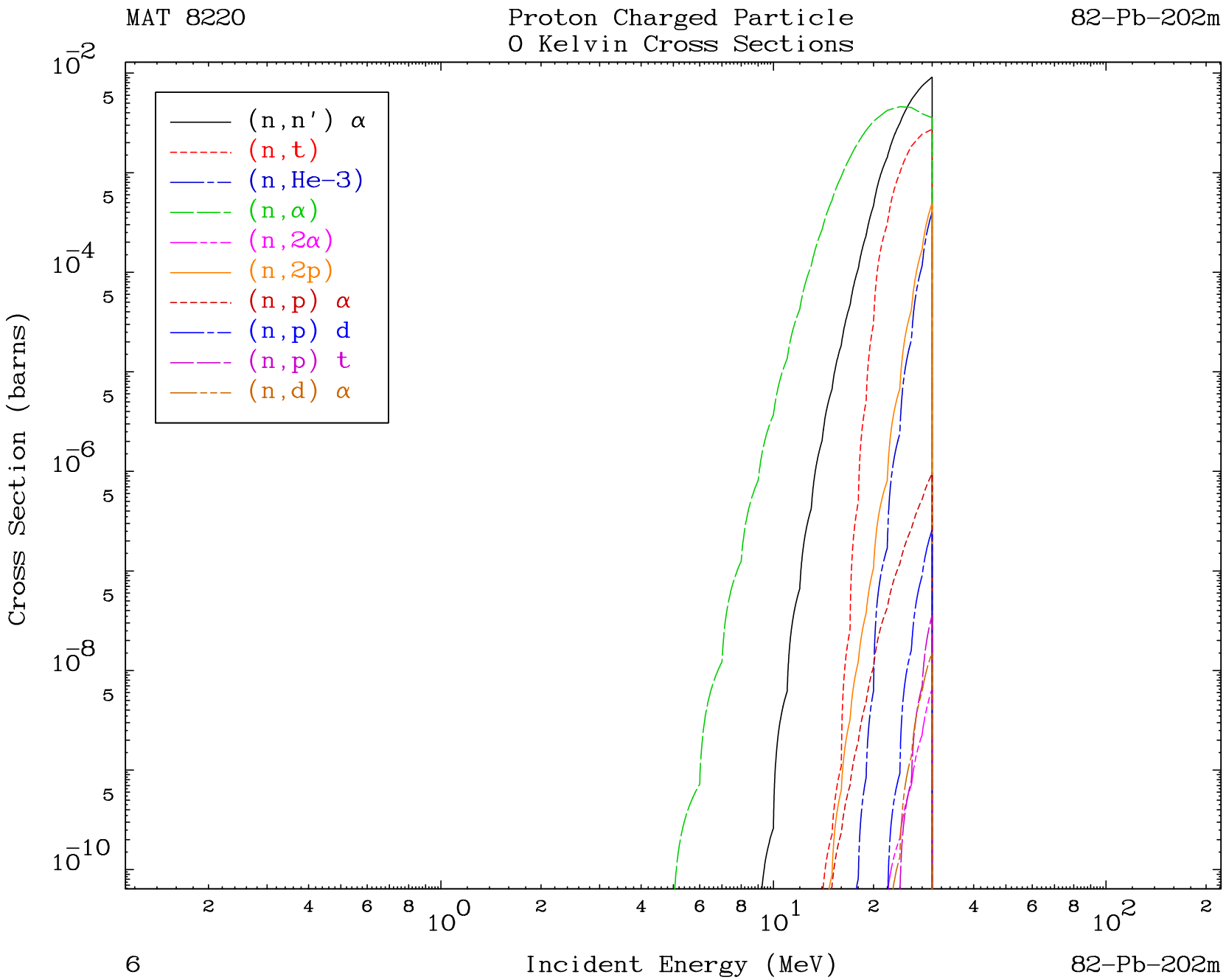

MAT 8220
Proton Major
82-Pb-202m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-202m

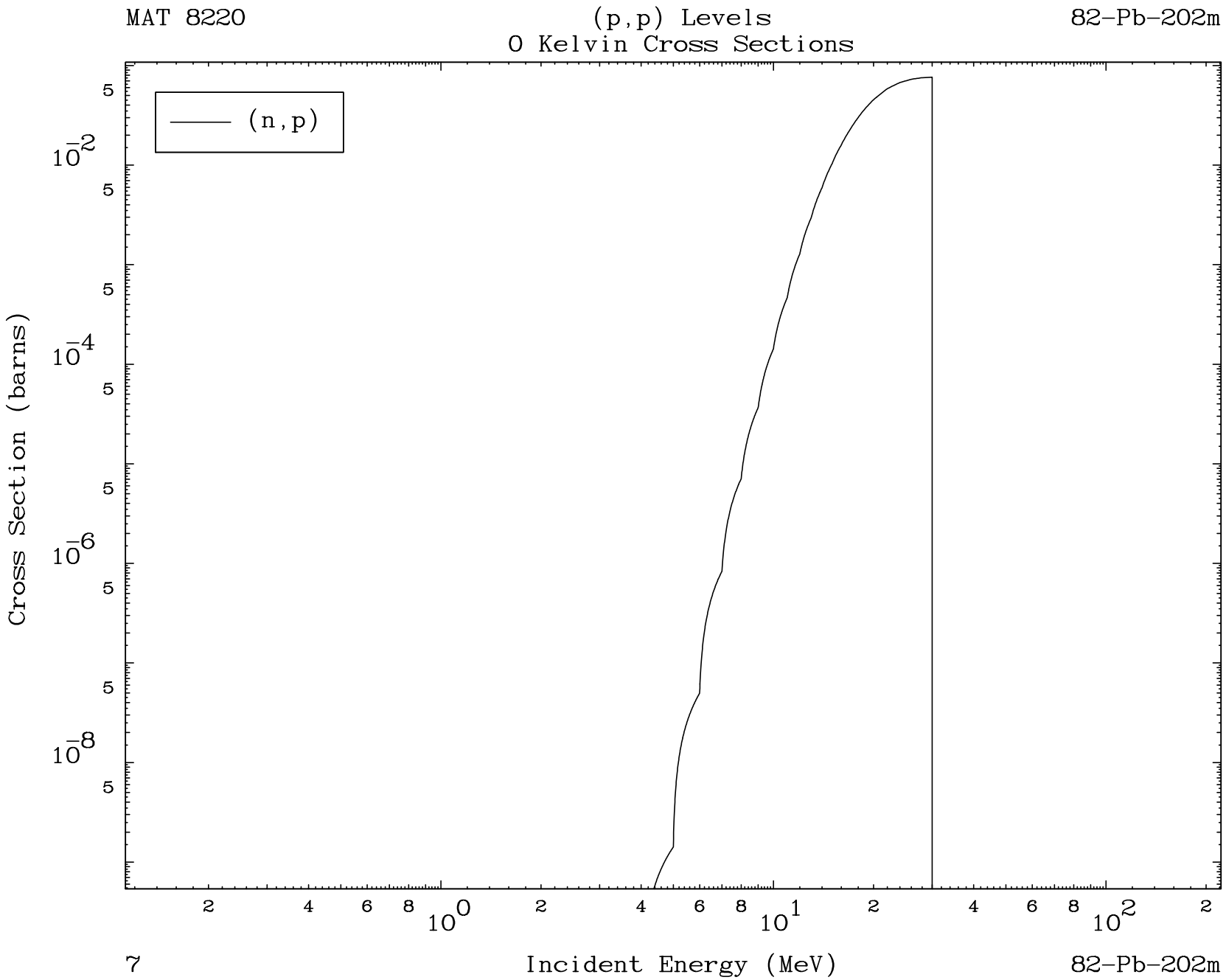

MAT 8220
Proton Neutron Absorption
0 Kelvin Cross Sections
82-Pb-202m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
82-Pb-202m

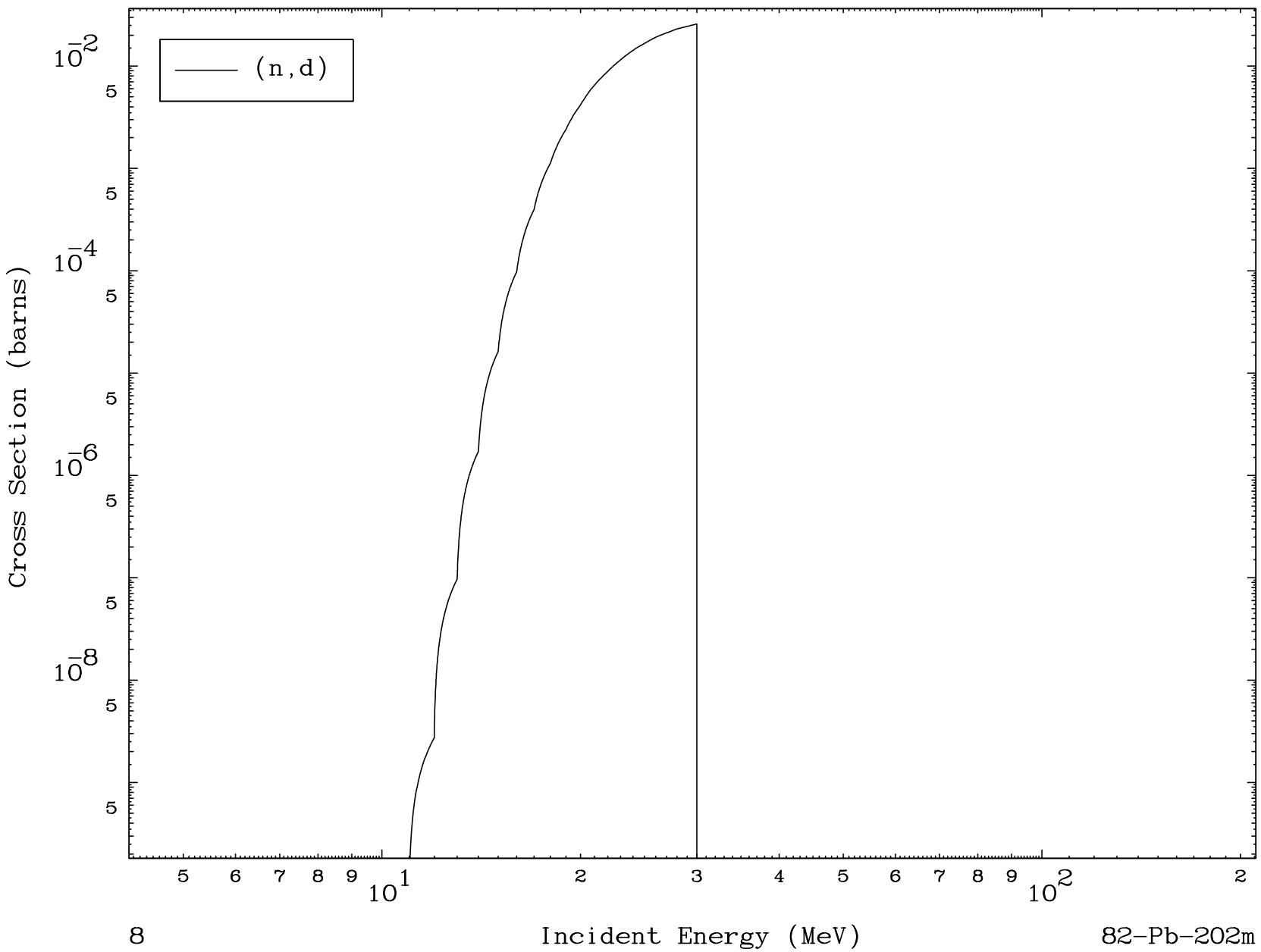

MAT 8220
Proton Neutron Absorption
0 Kelvin Cross Sections
82-Pb-202m
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
82-Pb-202m

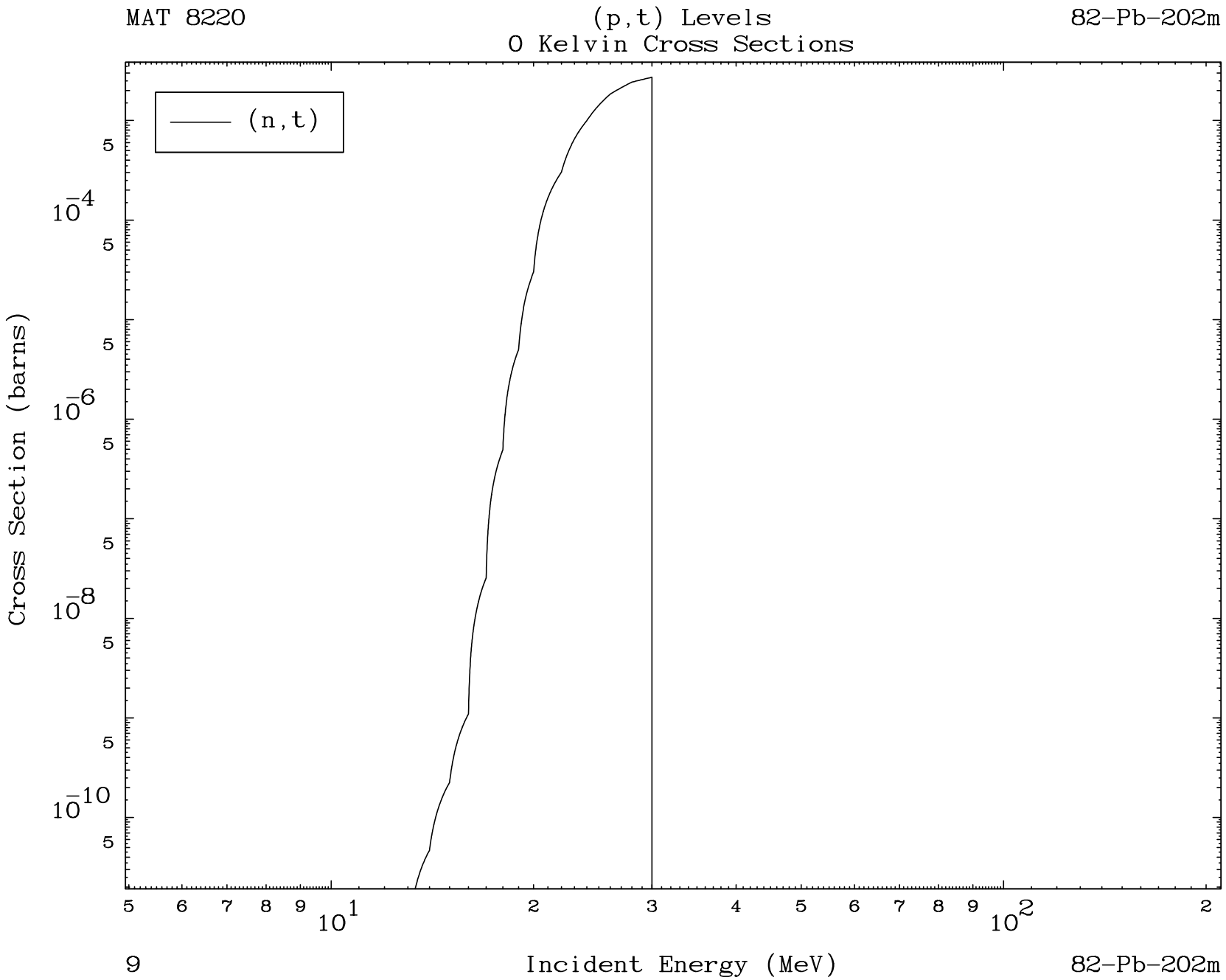

MAT 8220
Proton Neutron Absorption
0 Kelvin Cross Sections
82-Pb-202m
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
82-Pb-202m
4

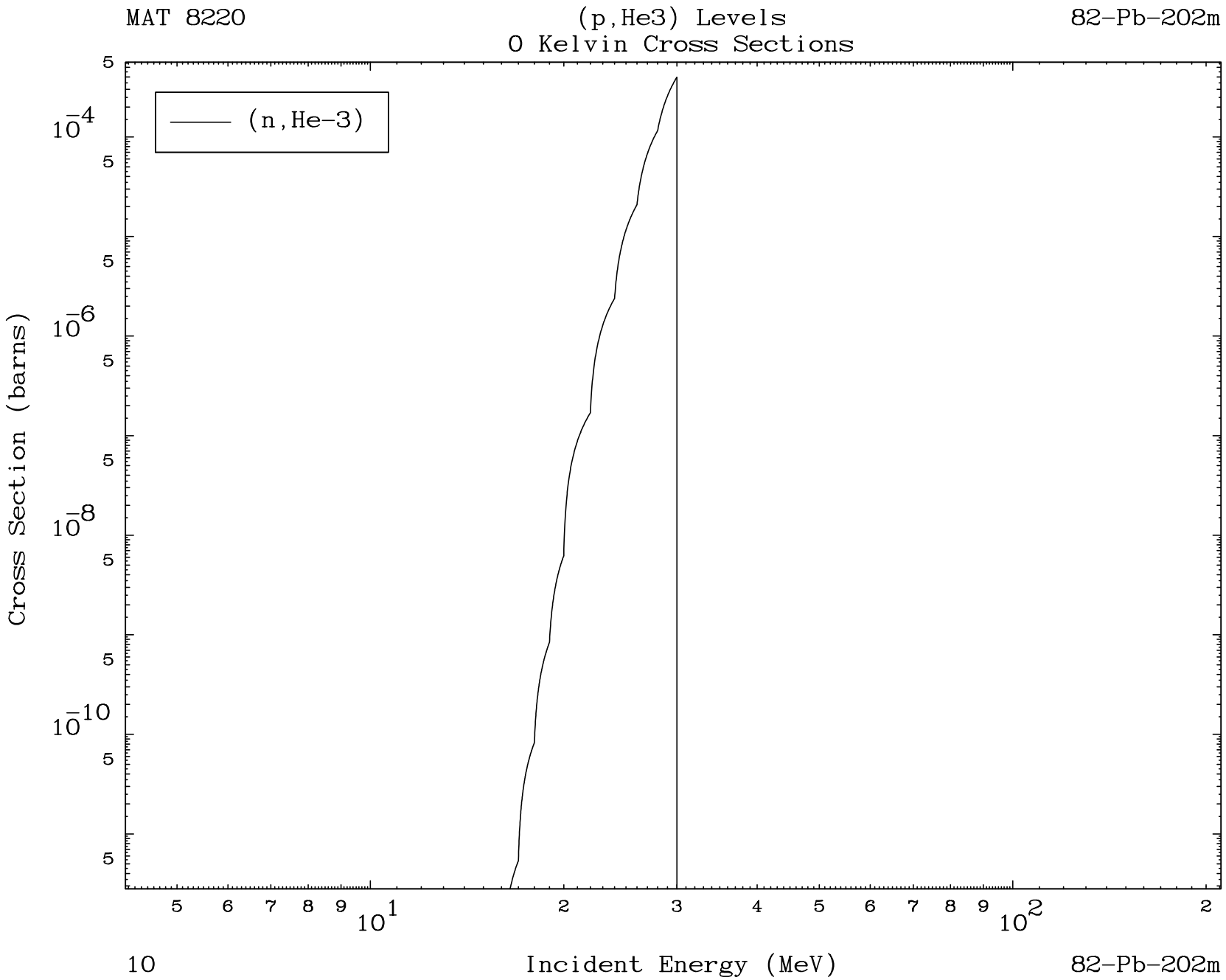

MAT 8220
Proton Charged Particle
0 Kelvin Cross Sections
82-Pb-202m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-202m
5

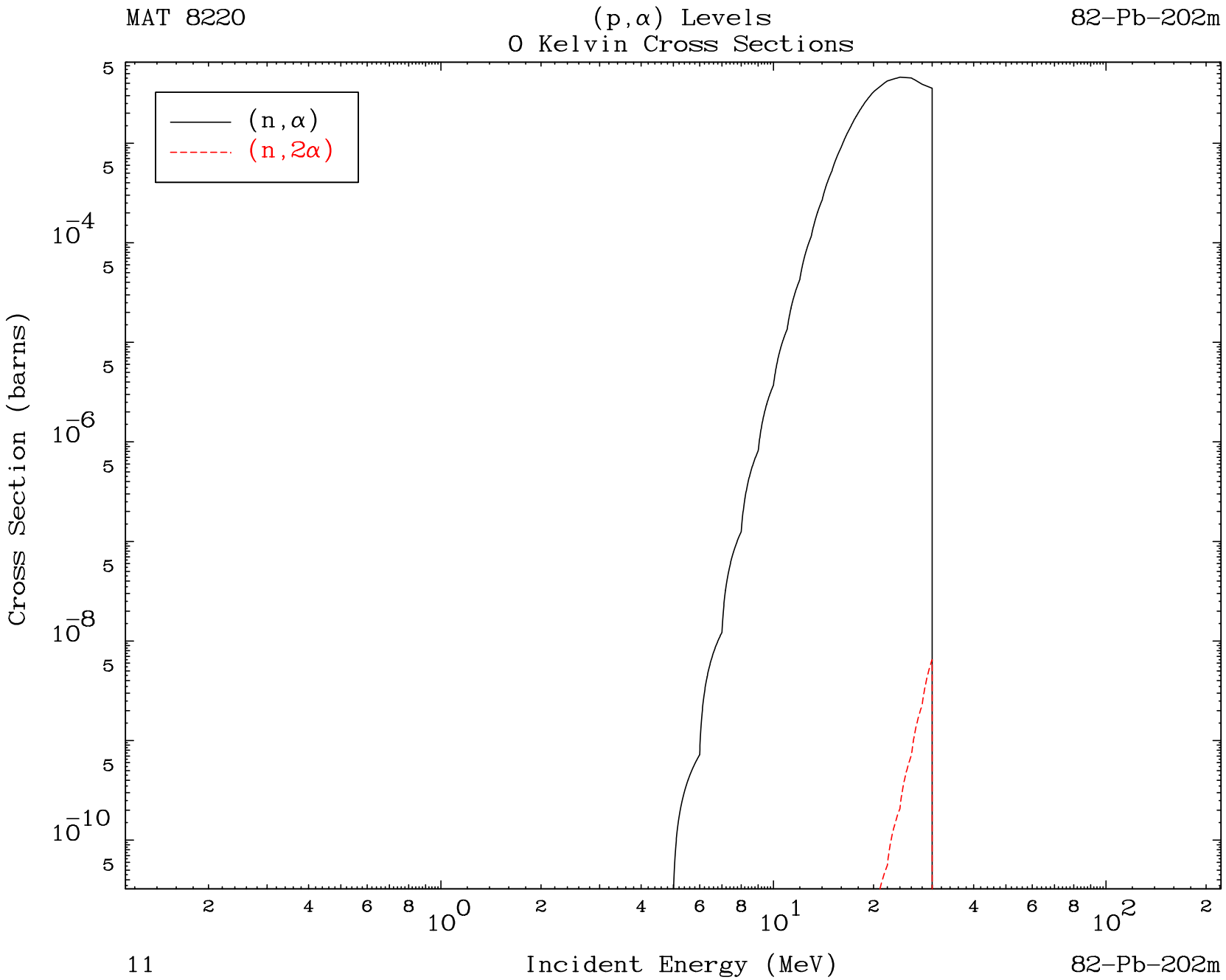

MAT 8220
Proton Charged Particle
0 Kelvin Cross Sections
82-Pb-202m
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
82-Pb-202m
6

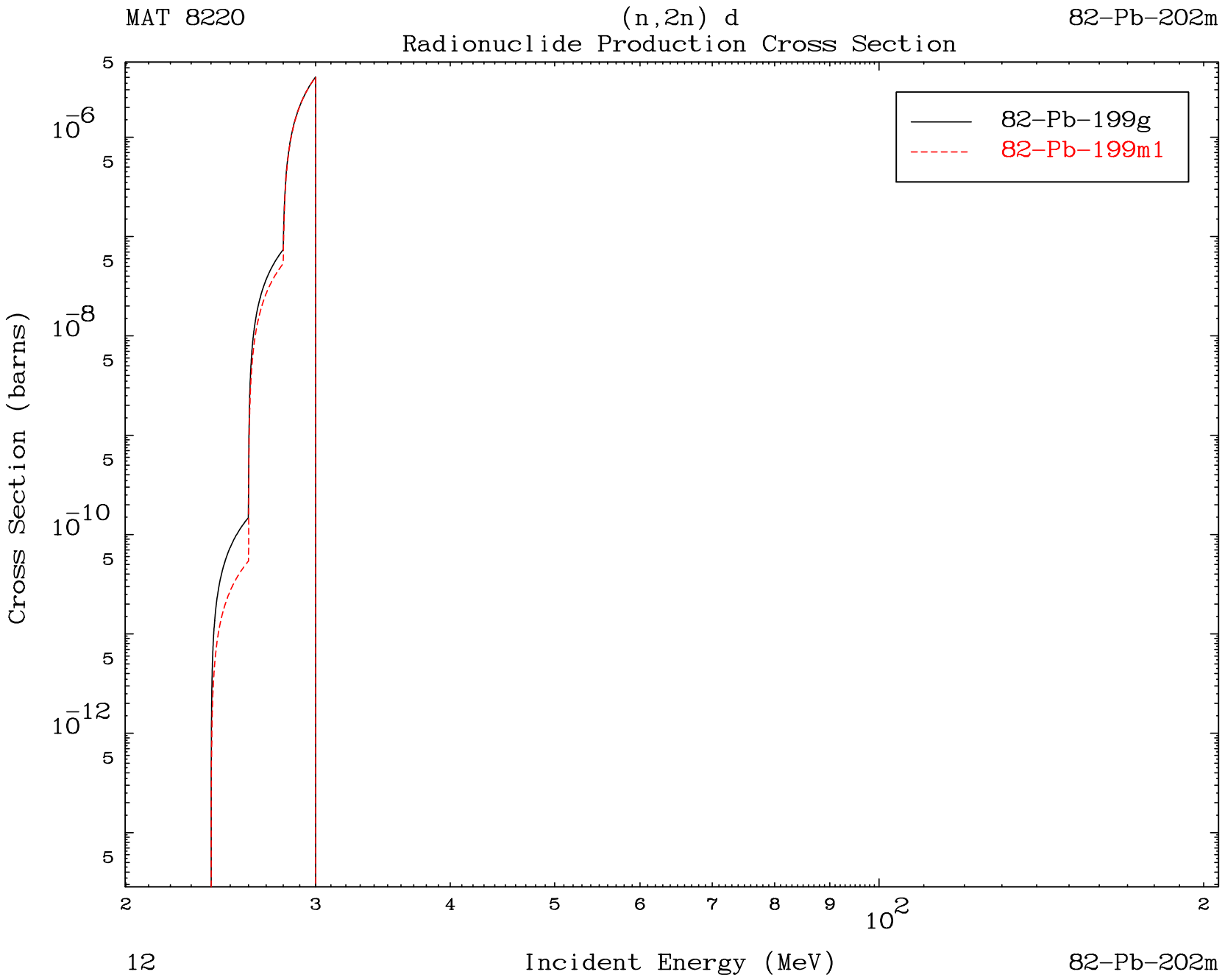

MAT 8220
(p,p) Levels
82-Pb-202m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
7
82-Pb-202m

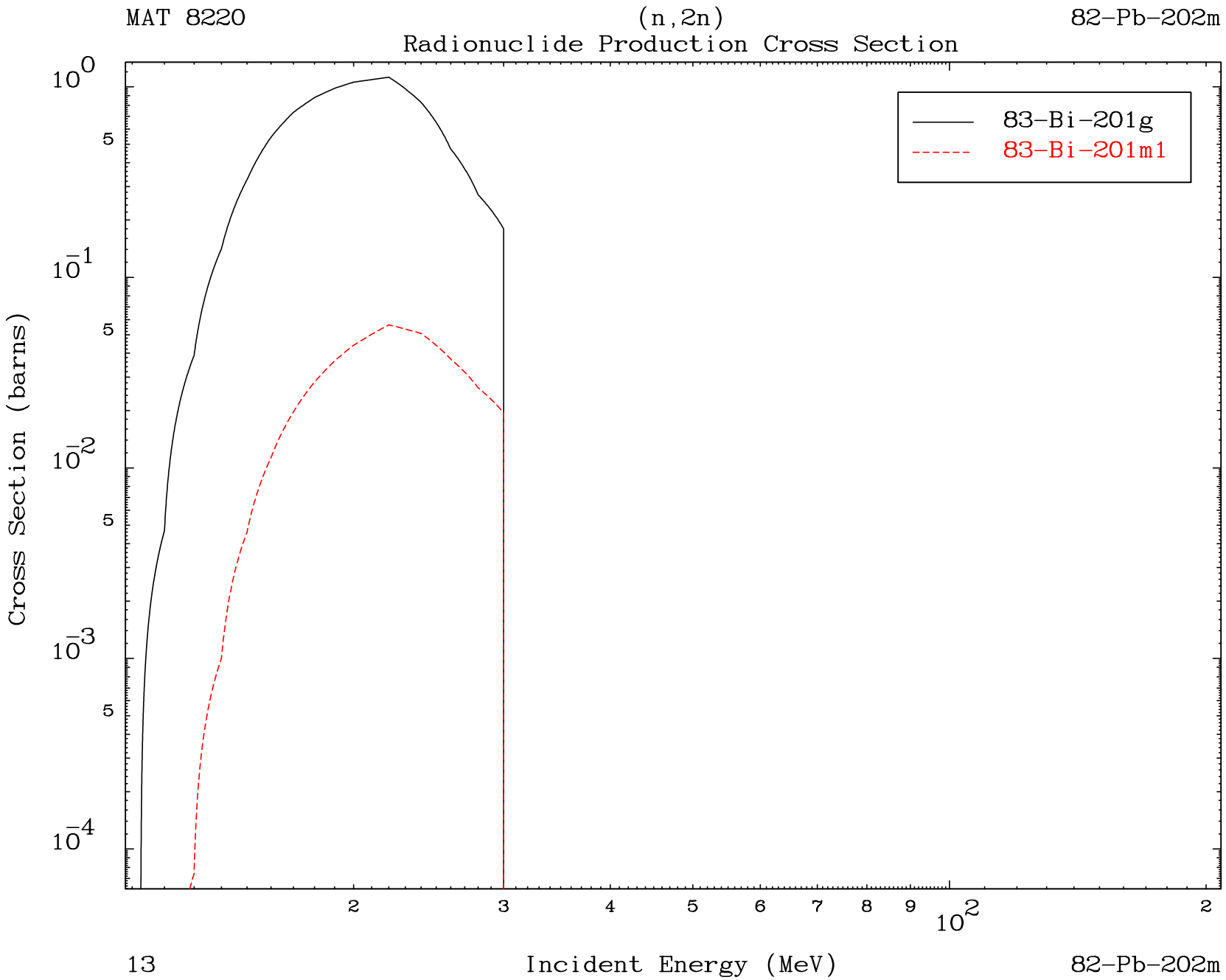

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-2
5
10^-4
5
10^-6
5
10^-8
5
5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

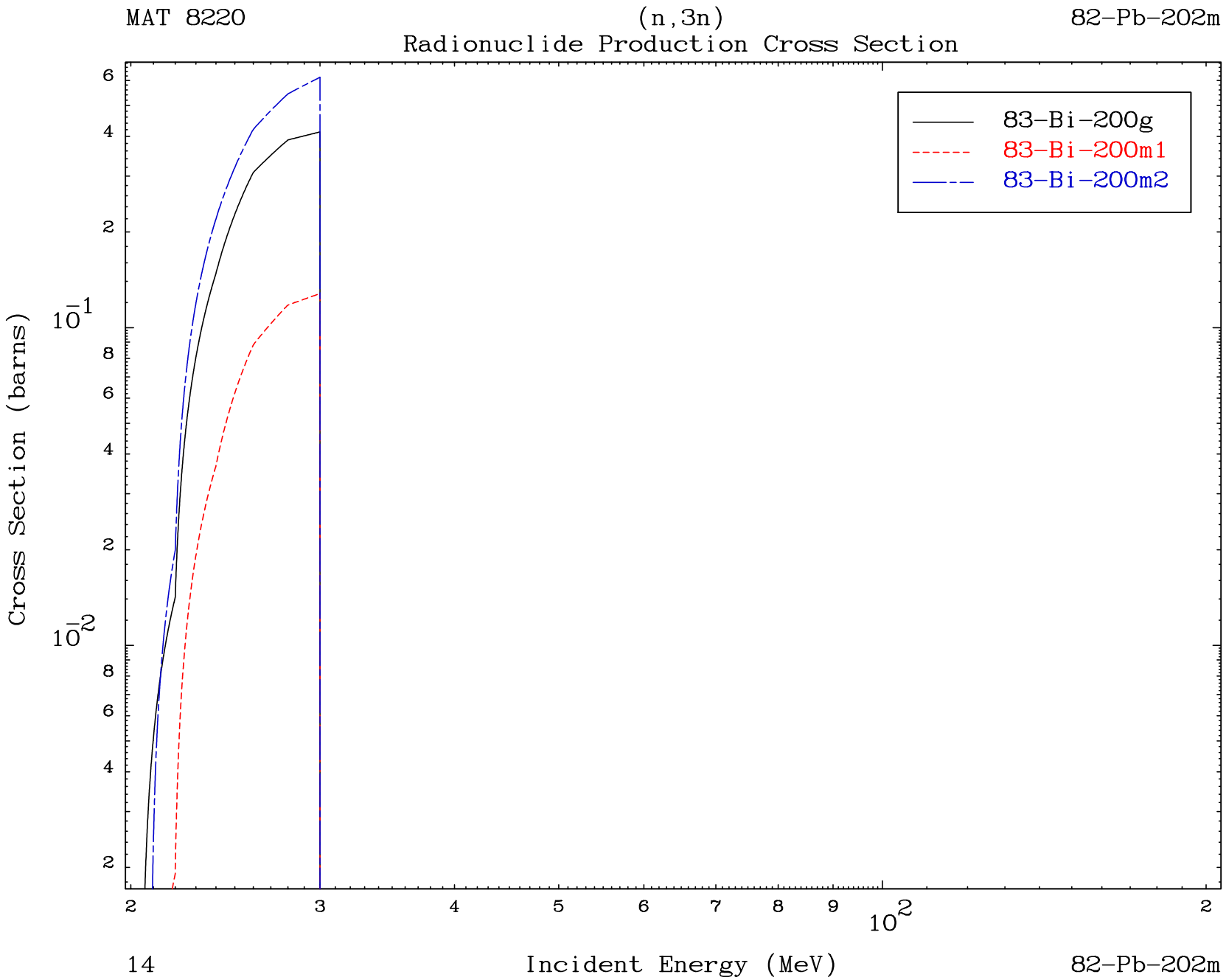

MAT 8220
(p,t) Levels
82-Pb-202m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
5
5
5
5
5
5
5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
9
82-Pb-202m

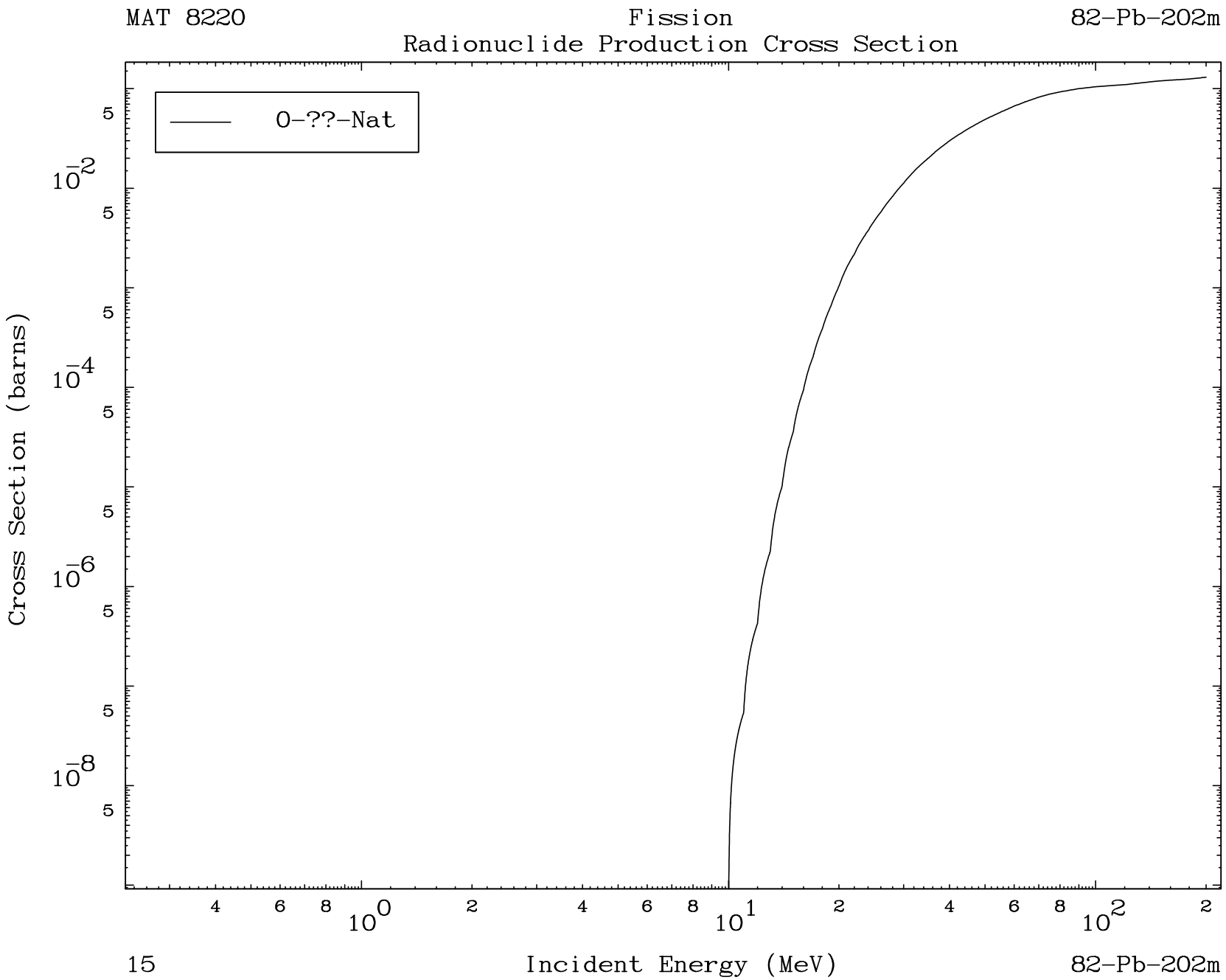

MAT 8220
(p,He3) Levels
82-Pb-202m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-202m

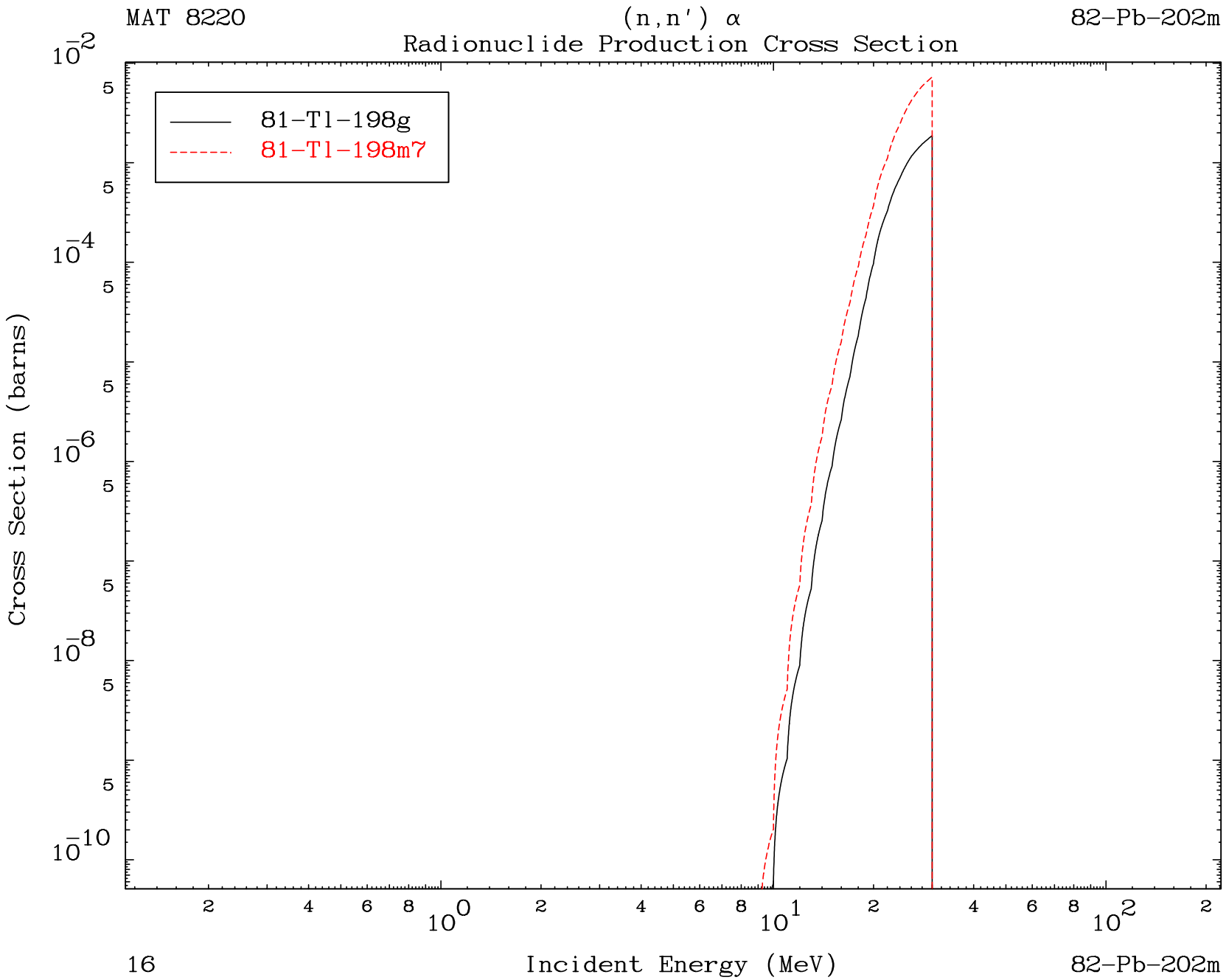

MAT 8220
(p,α) Levels
82-Pb-202m
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
82-Pb-202m

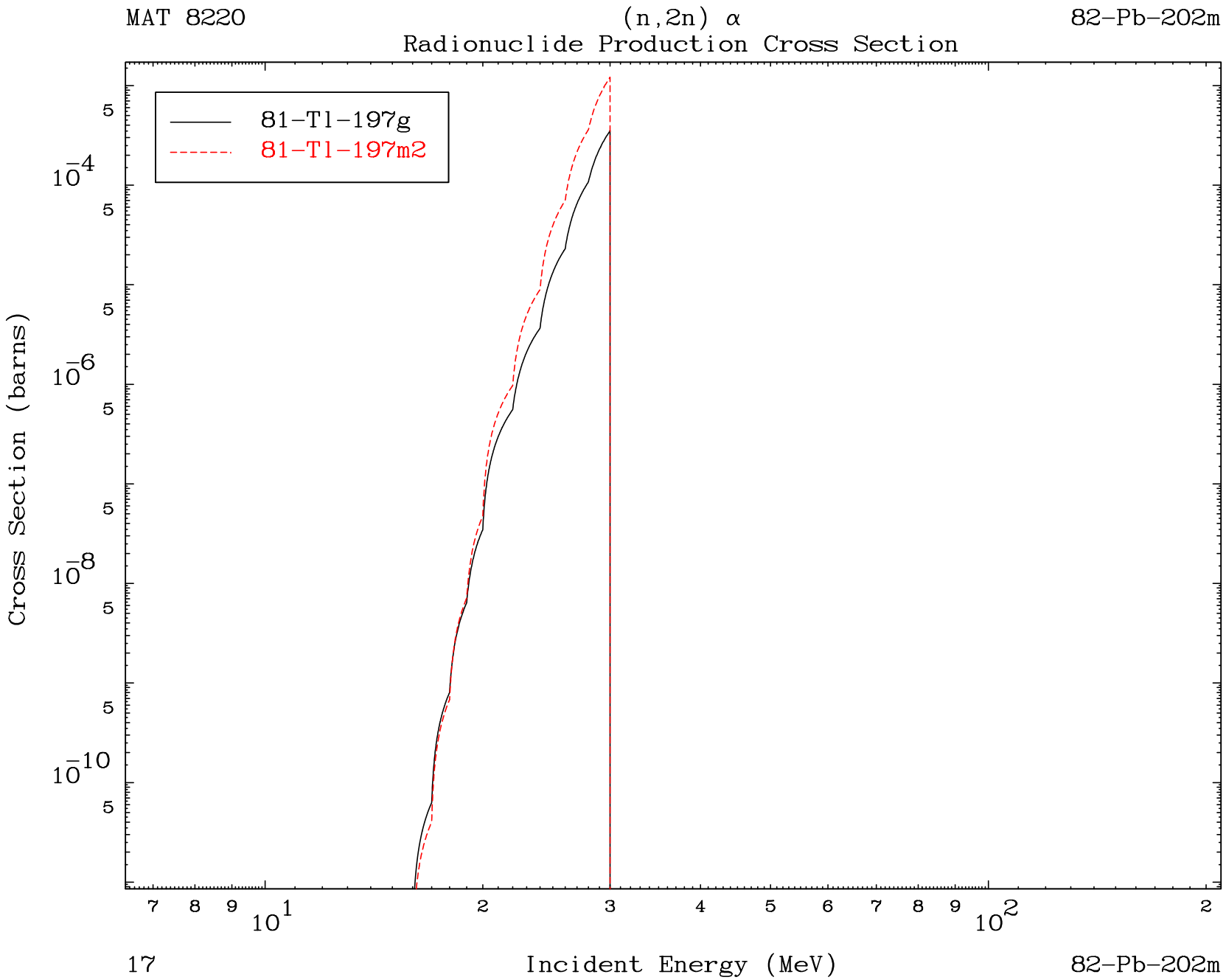

MAT 8220
(n,2n) d
82-Pb-202m
Radionuclide Production Cross Section
82-Pb-199g
82-Pb-199m1
Cross Section (barns)
Incident Energy (MeV)
12
82-Pb-202m

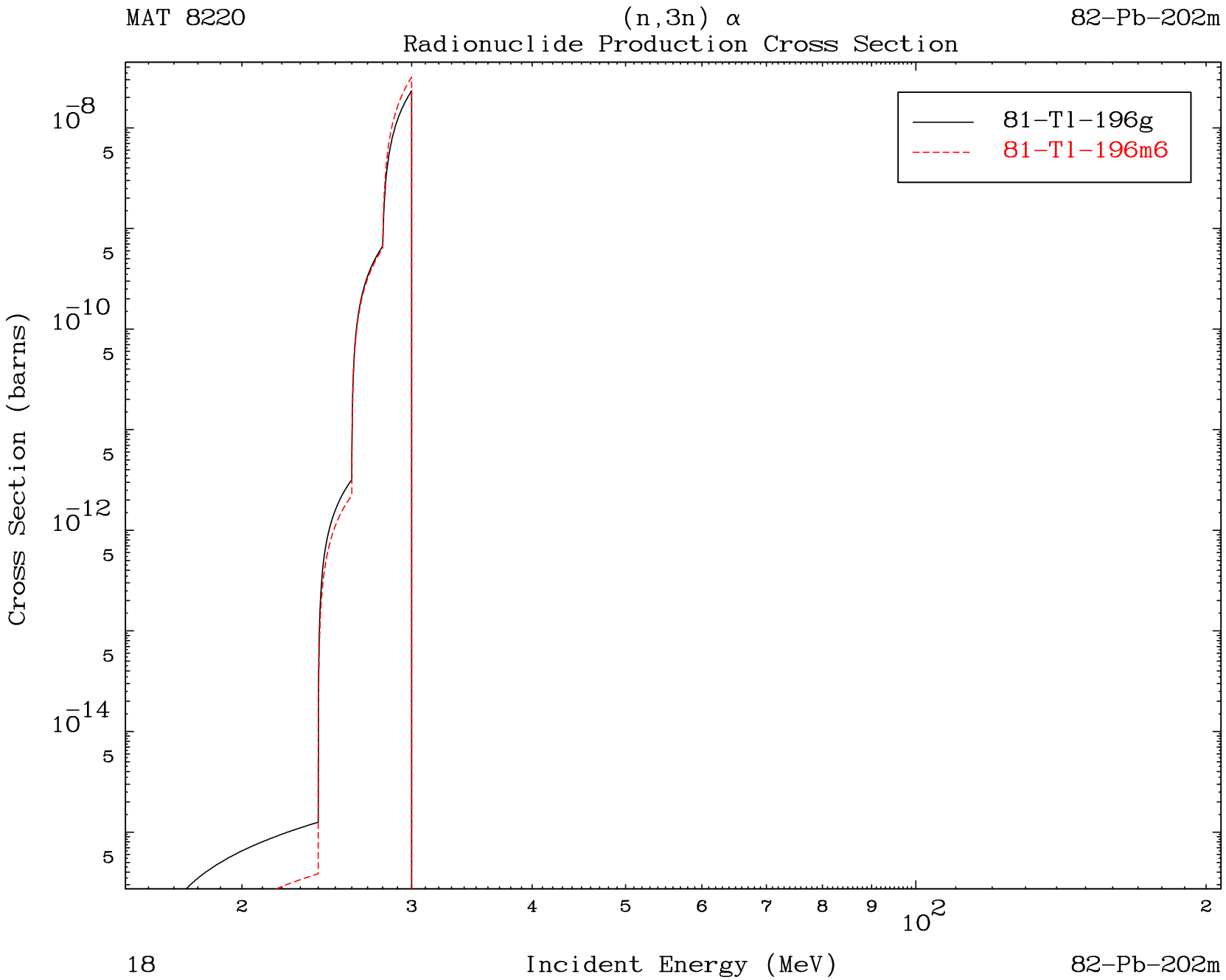

MAT 8220
(n,2n)
82-Pb-202m
Radionuclide Production Cross Section
83-Bi-201g
83-Bi-201m1
Cross Section (barns)
Incident Energy (MeV)
13
82-Pb-202m

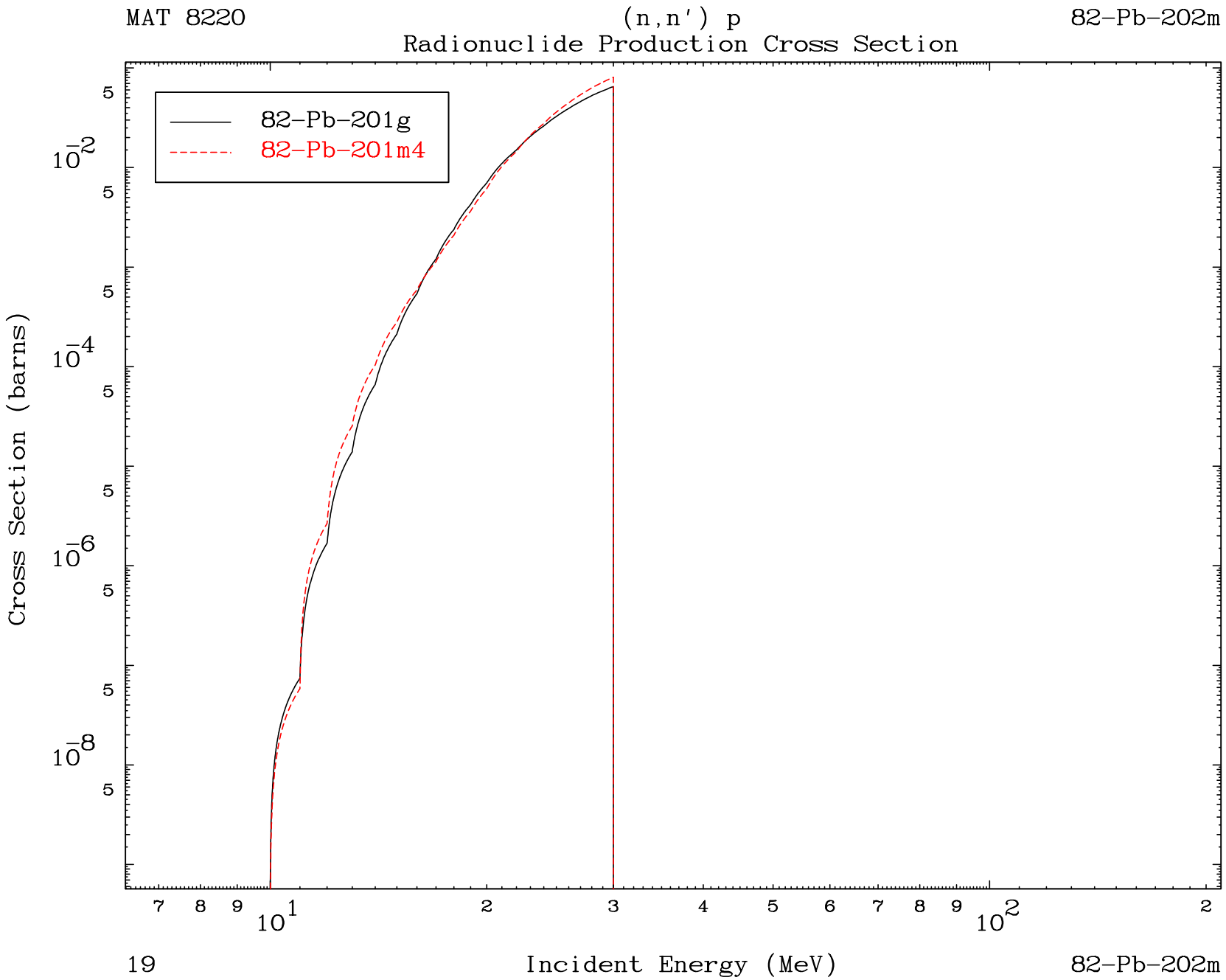

MAT 8220
(n,3n)
82-Pb-202m
Radionuclide Production Cross Section
83-Bi-200g
83-Bi-200m1
83-Bi-200m2
Cross Section (barns)
Incident Energy (MeV)
14
82-Pb-202m

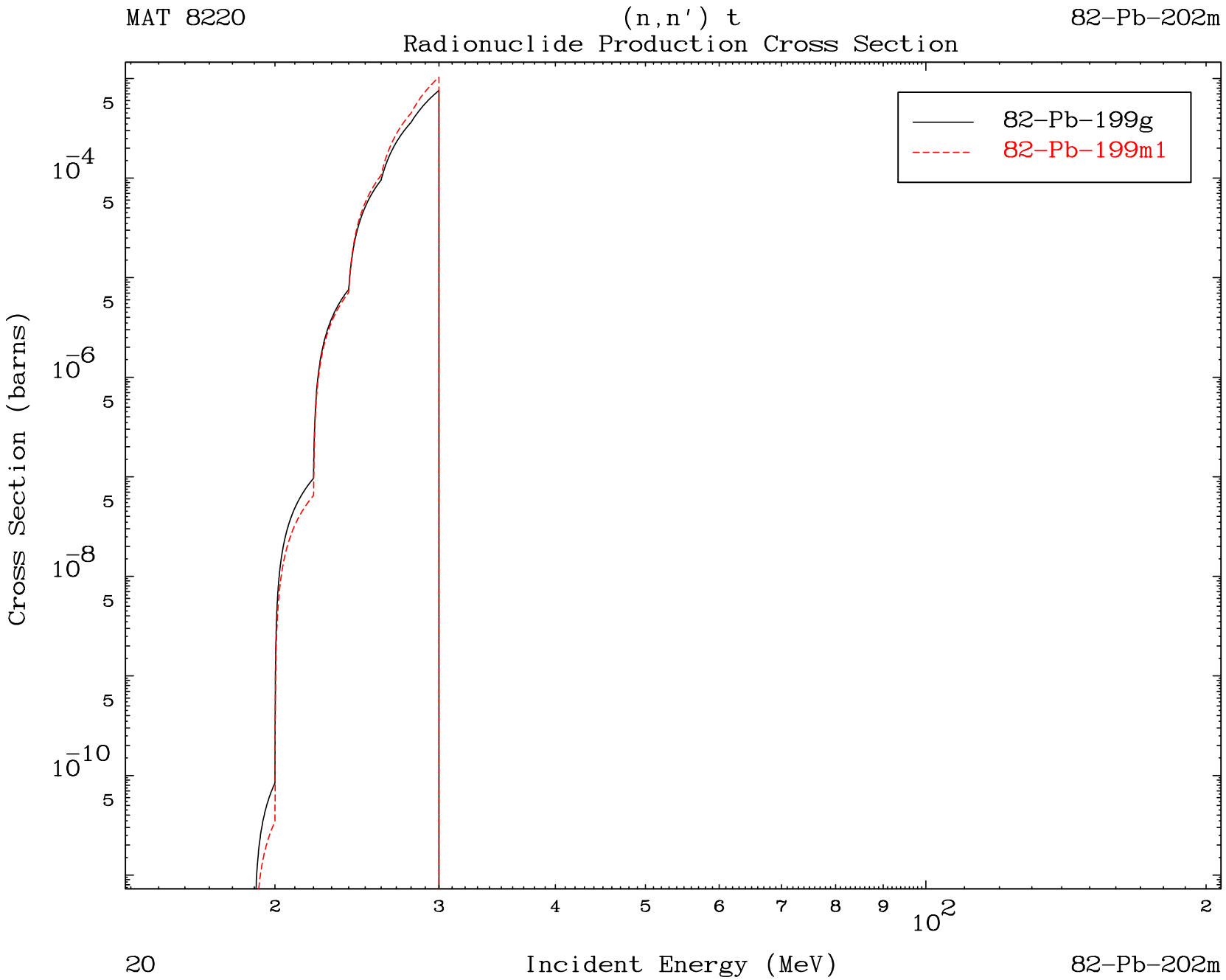

MAT 8220
Fission
82-Pb-202m
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
15
82-Pb-202m

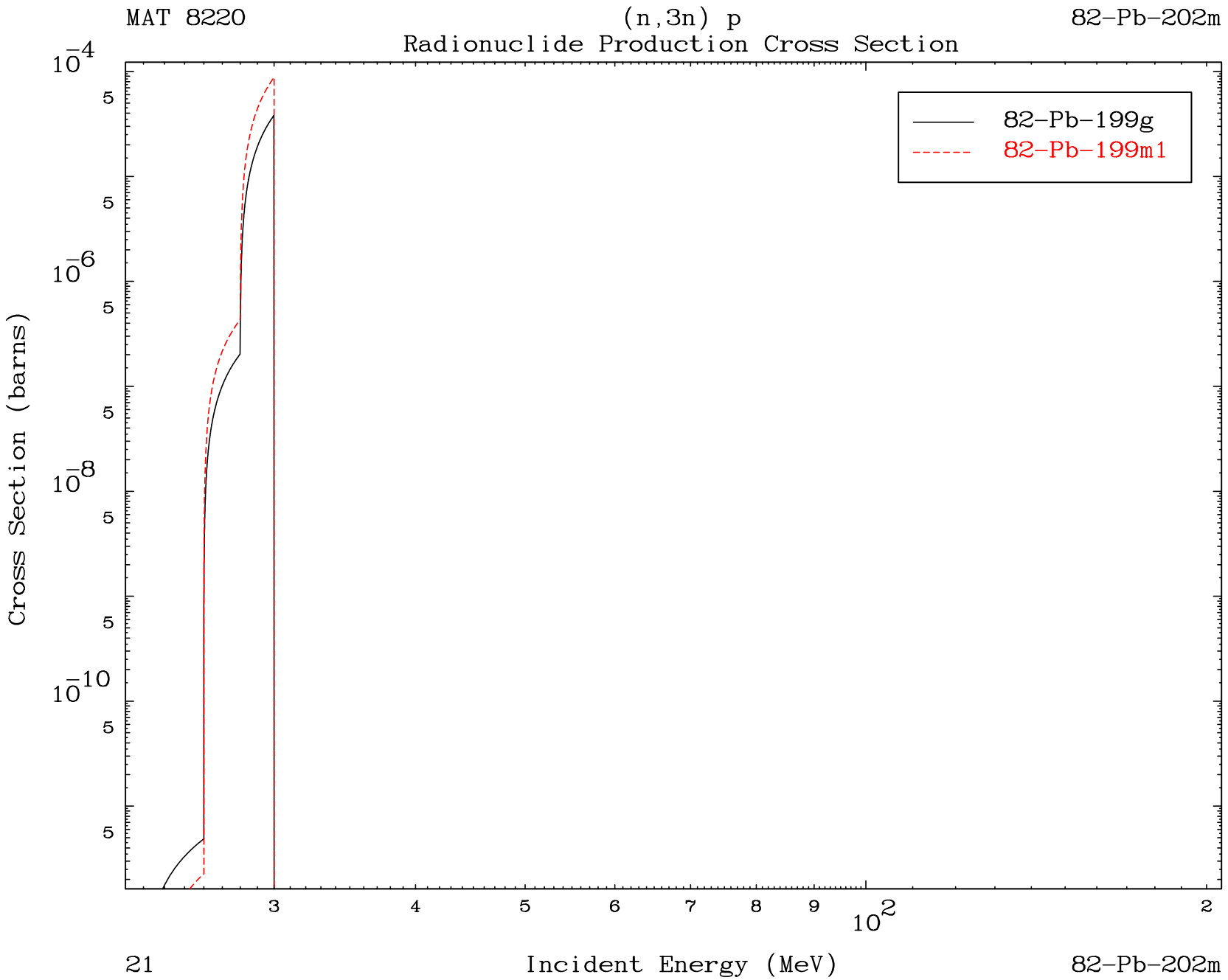

MAT 8220
(n,n') α
82-Pb-202m
Radionuclide Production Cross Section
81-Tl-198g
81-Tl-198m7
Cross Section (barns)
Incident Energy (MeV)
16
82-Pb-202m

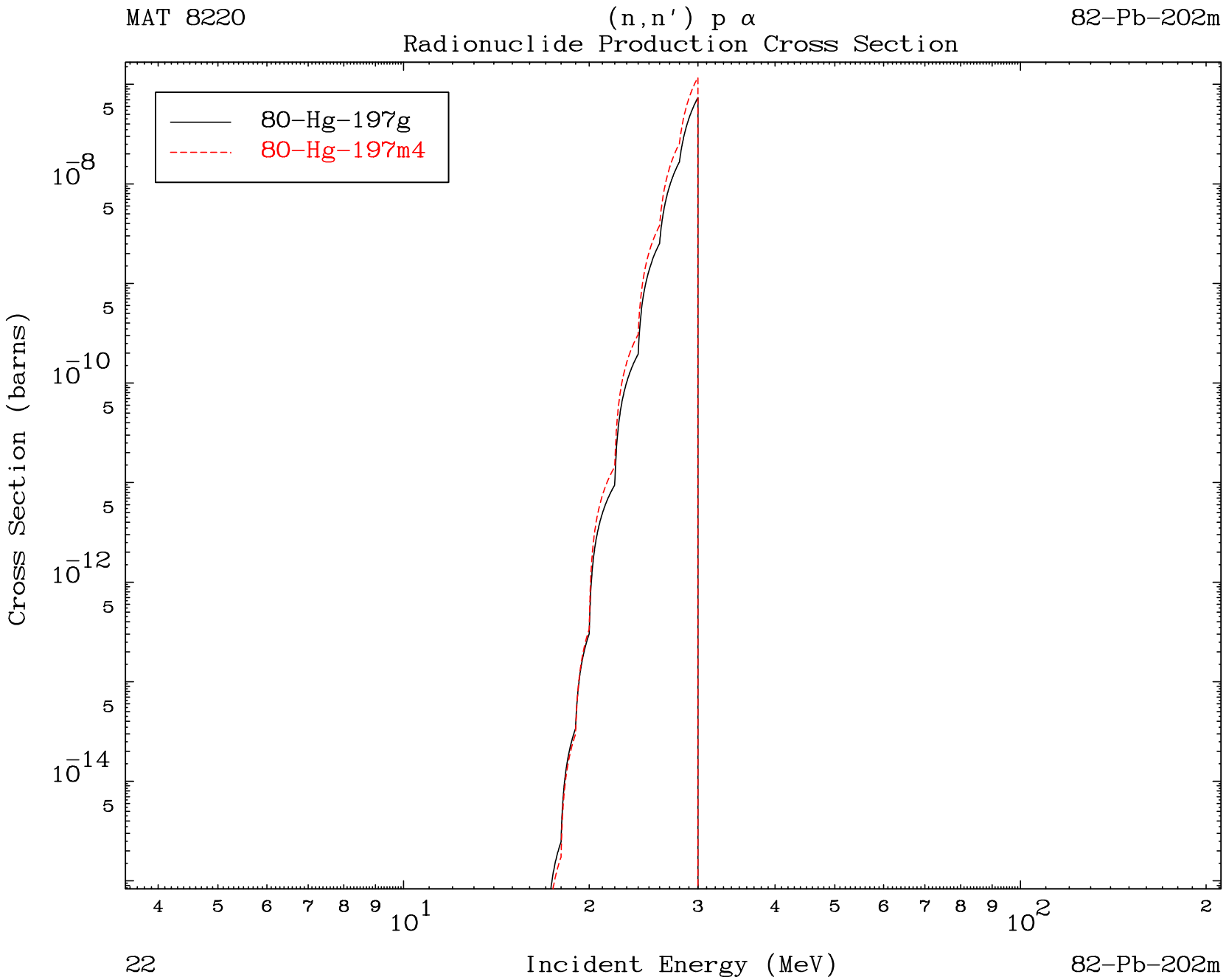

MAT 8220
(n,2n) α
82-Pb-202m
Radionuclide Production Cross Section
81-Tl-197g
81-Tl-197m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
7 8 9
10 1
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
82-Pb-202m

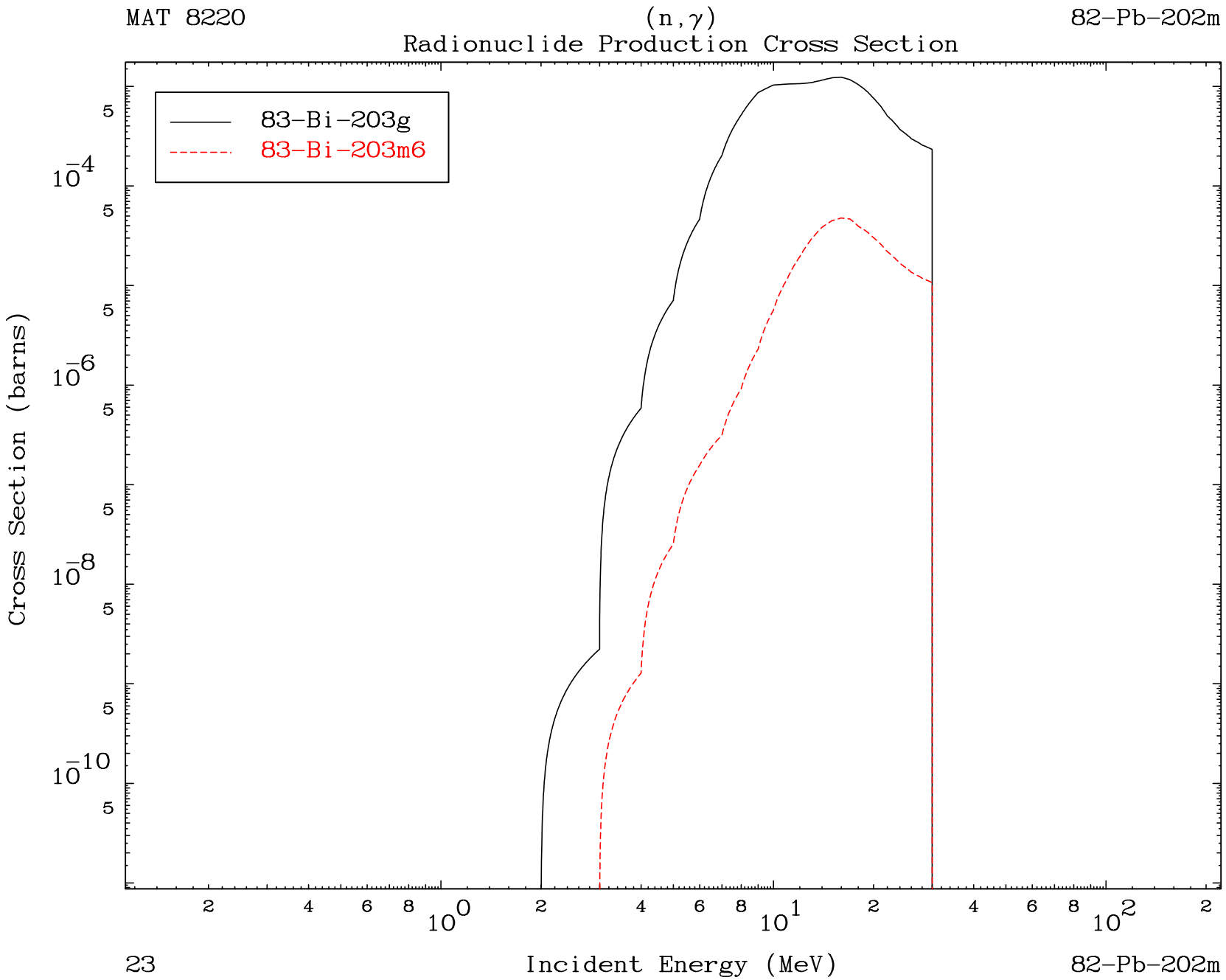

MAT 8220
(n,3n) α
82-Pb-202m
Radionuclide Production Cross Section
81-Tl-196g
81-Tl-196m6
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
82-Pb-202m

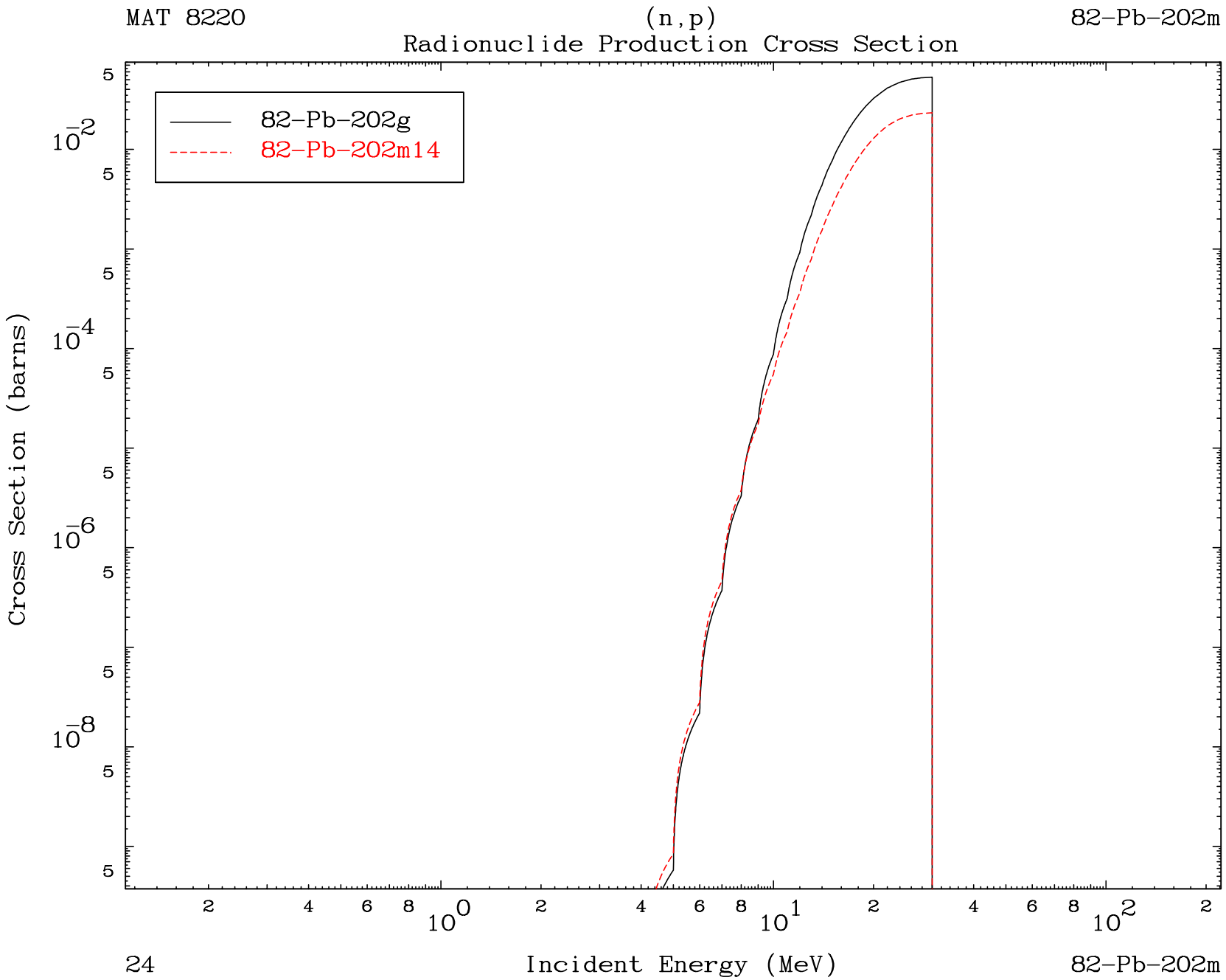

MAT 8220
(n,n') p
82-Pb-202m
Radionuclide Production Cross Section
82-Pb-201g
82-Pb-201m4
Cross Section (barns)
Incident Energy (MeV)
19
82-Pb-202m

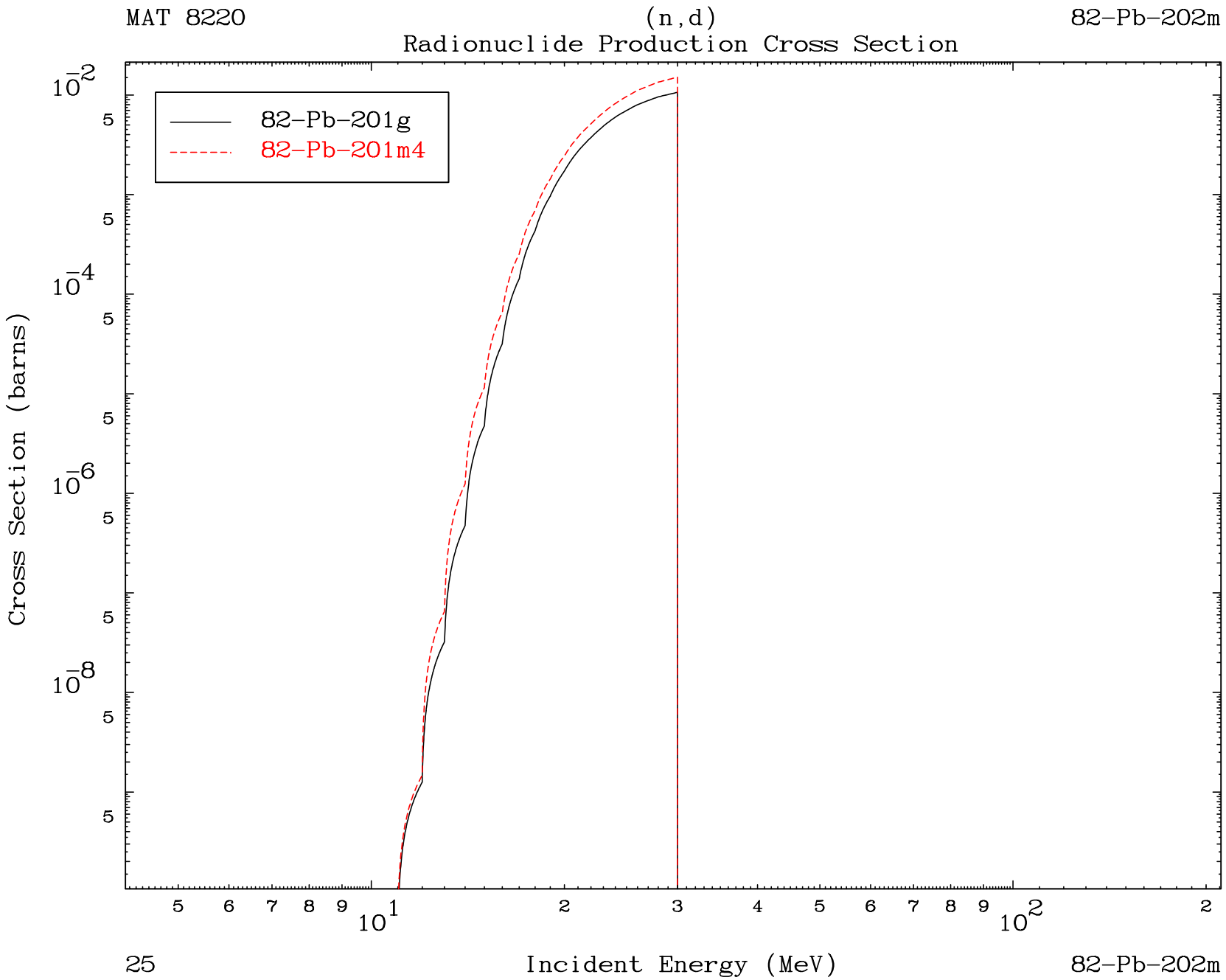

MAT 8220
(n,n') t
82-Pb-202m
Radionuclide Production Cross Section
82-Pb-199g
82-Pb-199m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
6
7
8
9
10^2
20
Incident Energy (MeV)
82-Pb-202m

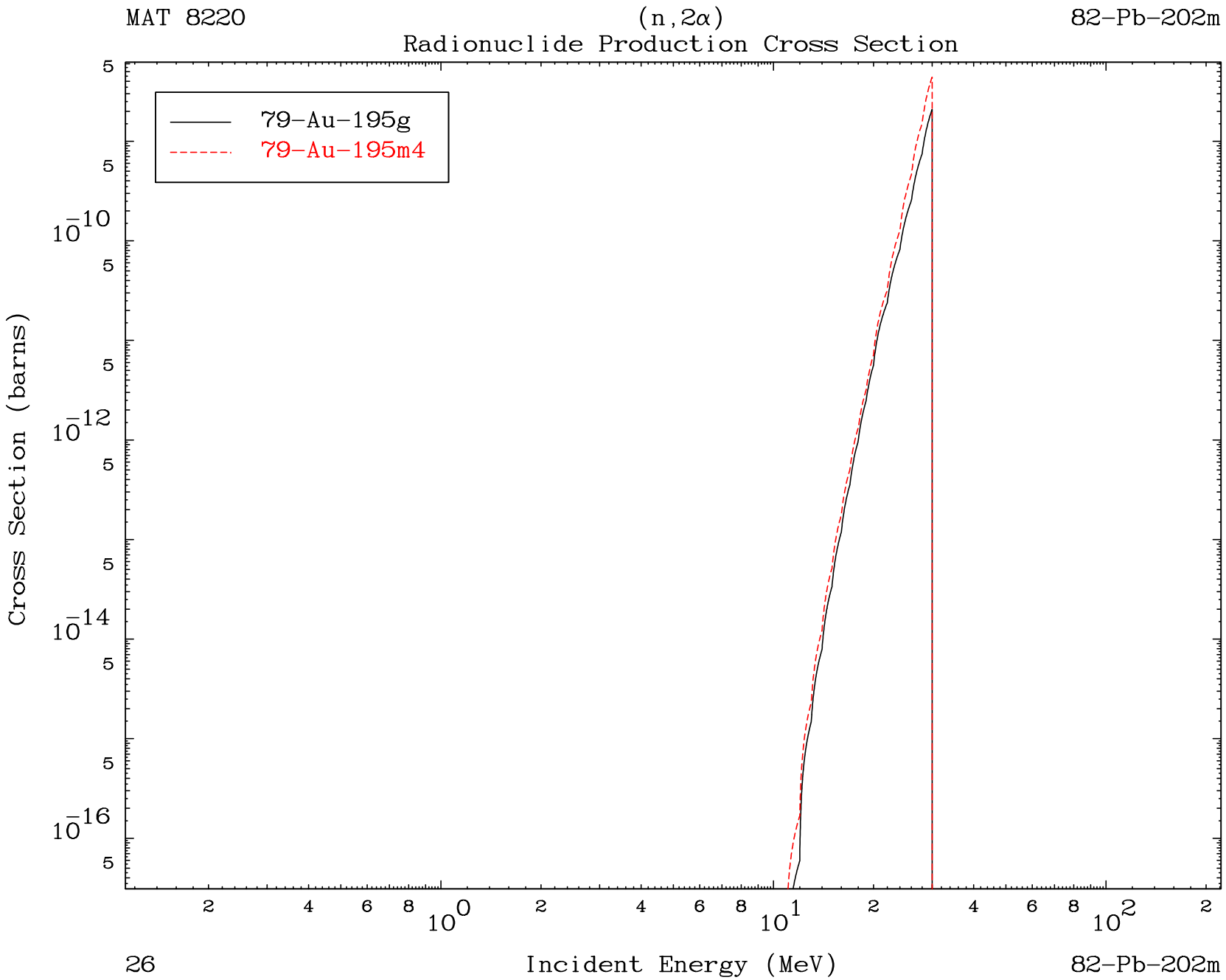

MAT 8220
(n,3n) p
82-Pb-202m
Radionuclide Production Cross Section
82-Pb-199g
82-Pb-199m1
Cross Section (barns)
Incident Energy (MeV)
21
82-Pb-202m

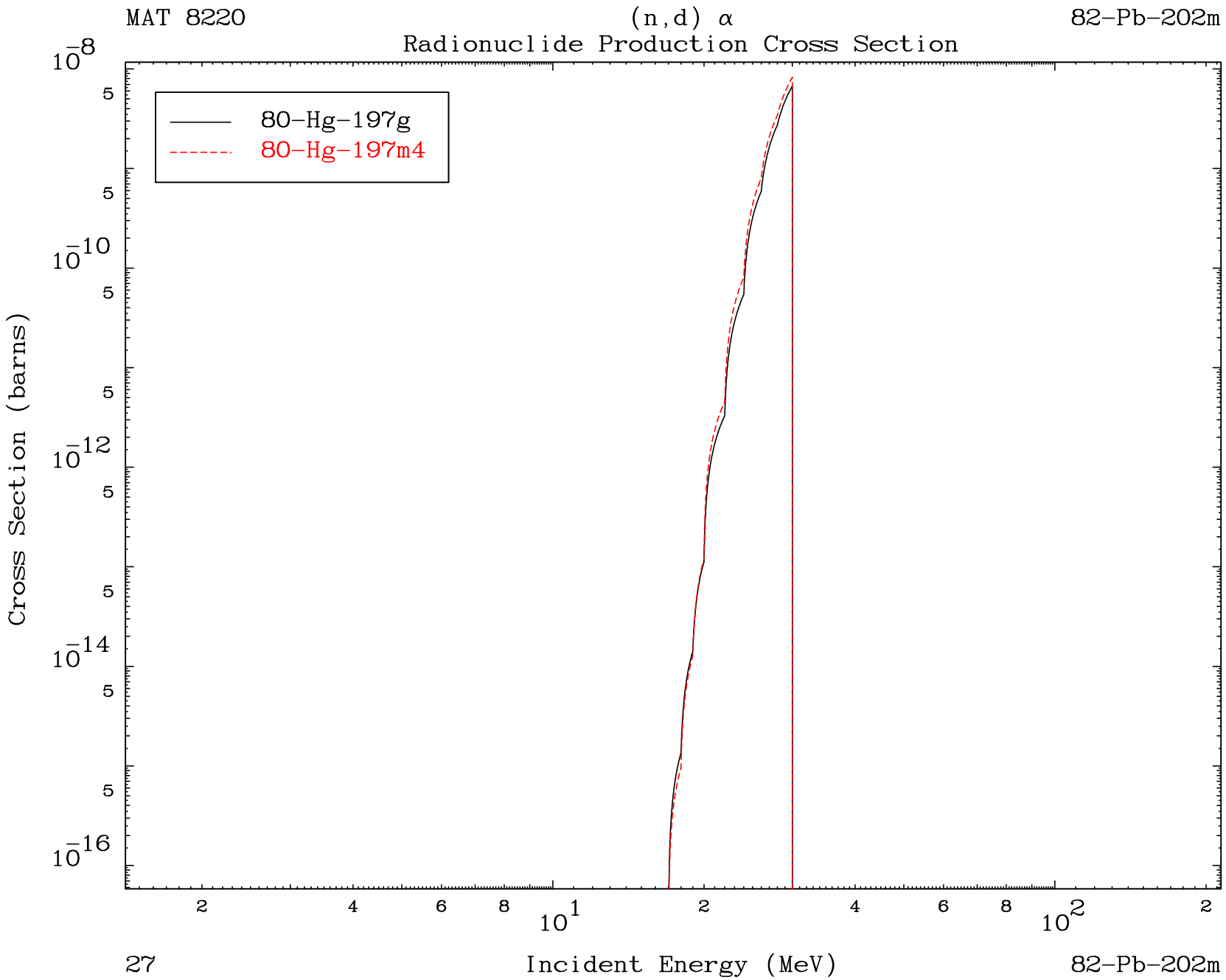

MAT 8220
(n,n') p α
82-Pb-202m
Radionuclide Production Cross Section
80-Hg-197g
80-Hg-197m4
Cross Section (barns)
10-8
10-10
10-12
10-14
5
4 5 6 7 8 9 10 1
2 3 4 5 6 7 8 9 10 2
2
22
Incident Energy (MeV)
82-Pb-202m


MAT 8220
(n,γ)
82-Pb-202m
Radionuclide Production Cross Section
83-Bi-203g
83-Bi-203m6
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
23
82-Pb-202m


MAT 8220
(n,p)
82-Pb-202m
Radionuclide Production Cross Section
82-Pb-202g
82-Pb-202m14
Cross Section (barns)
Incident Energy (MeV)
24
82-Pb-202m


MAT 8220
(n,d)
82-Pb-202m
Radionuclide Production Cross Section
82-Pb-201g
82-Pb-201m4
Cross Section (barns)
Incident Energy (MeV)
25
82-Pb-202m


MAT 8220
(n,2α)
82-Pb-202m
Radionuclide Production Cross Section
79-Au-195g
79-Au-195m4
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
10^0
10^1
10^2
Incident Energy (MeV)
26
82-Pb-202m


MAT 8220
(n,d) α
82-Pb-202m
Radionuclide Production Cross Section
80-Hg-197g
80-Hg-197m4
Cross Section (barns)
Incident Energy (MeV)
27
82-Pb-202m