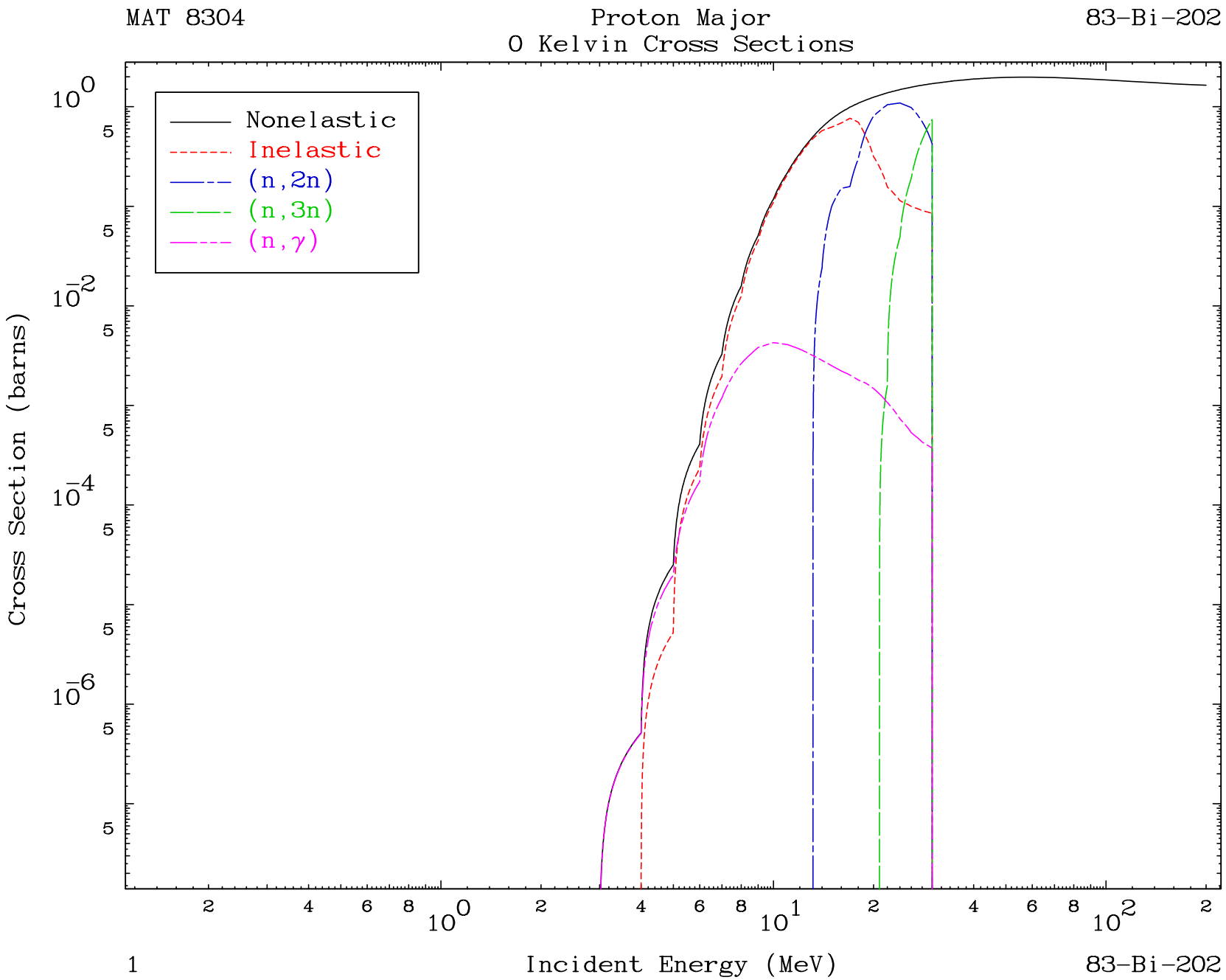
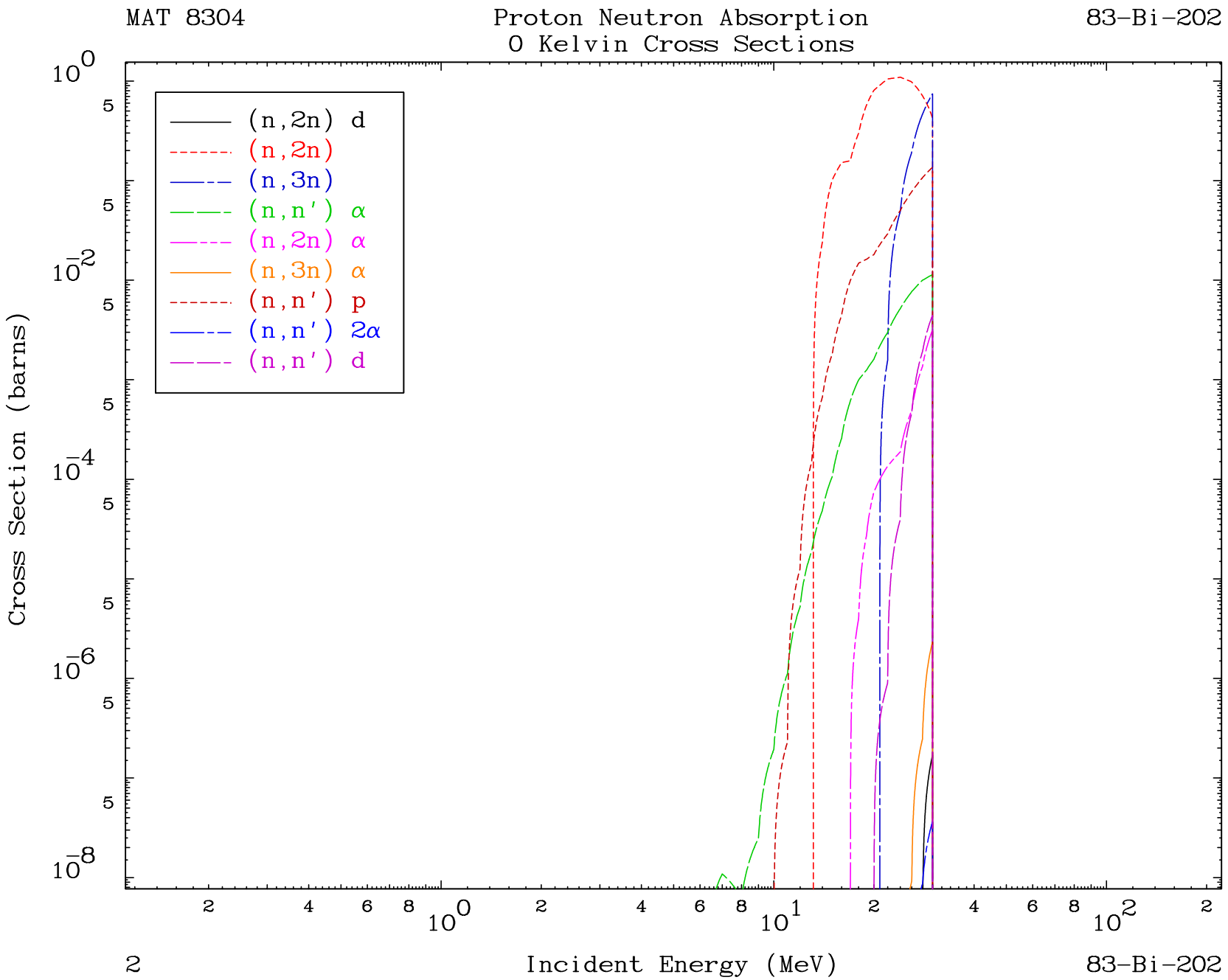
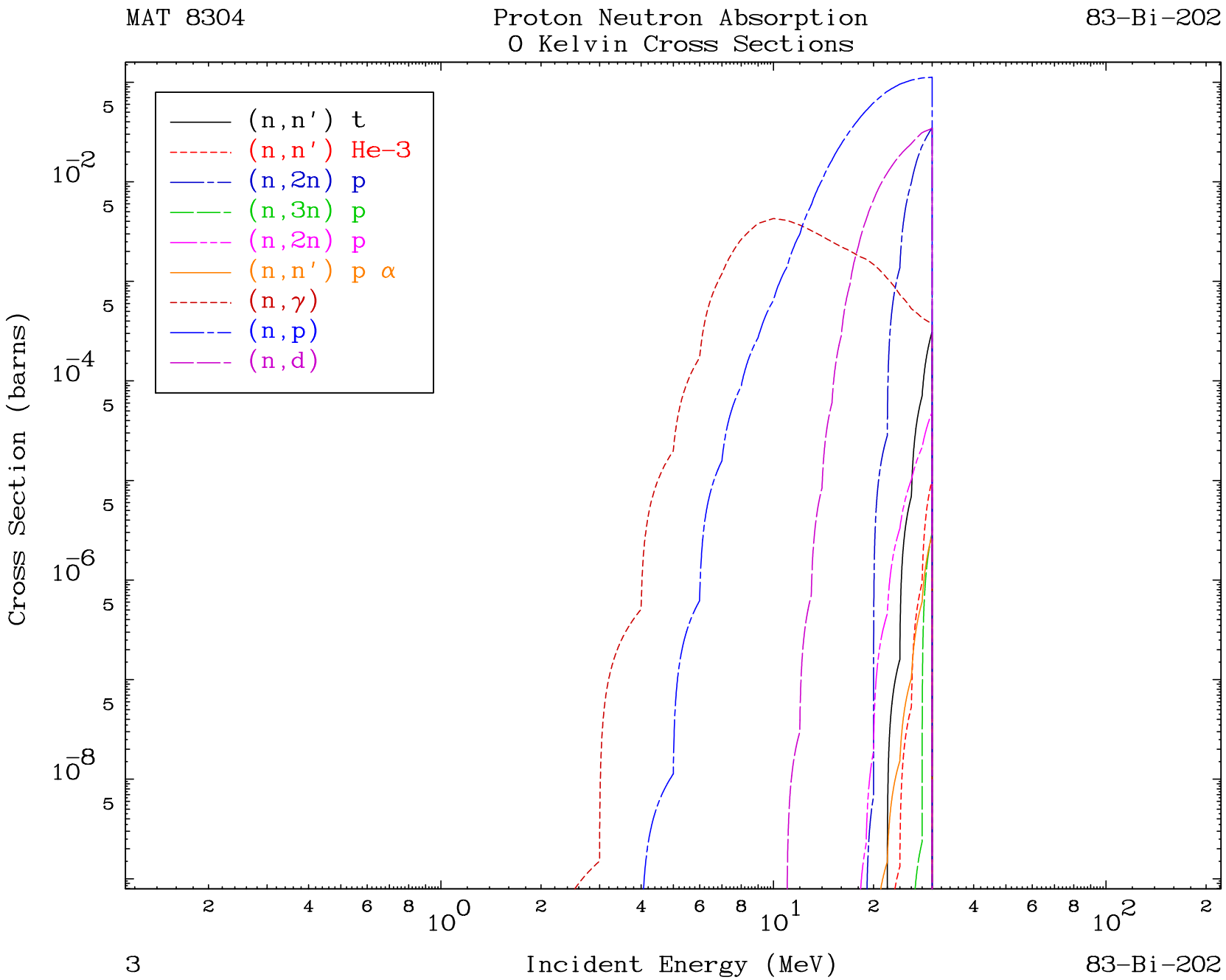
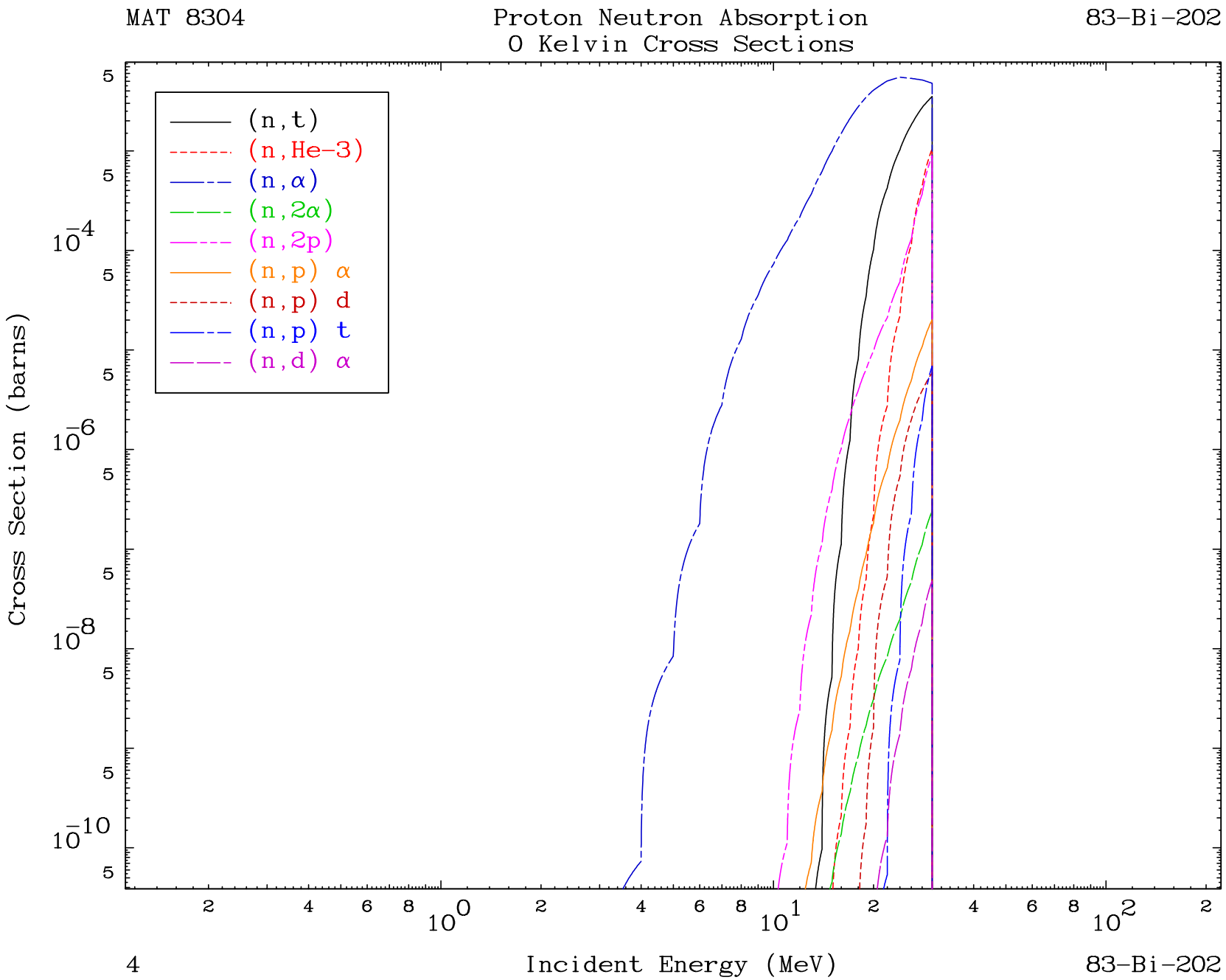
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

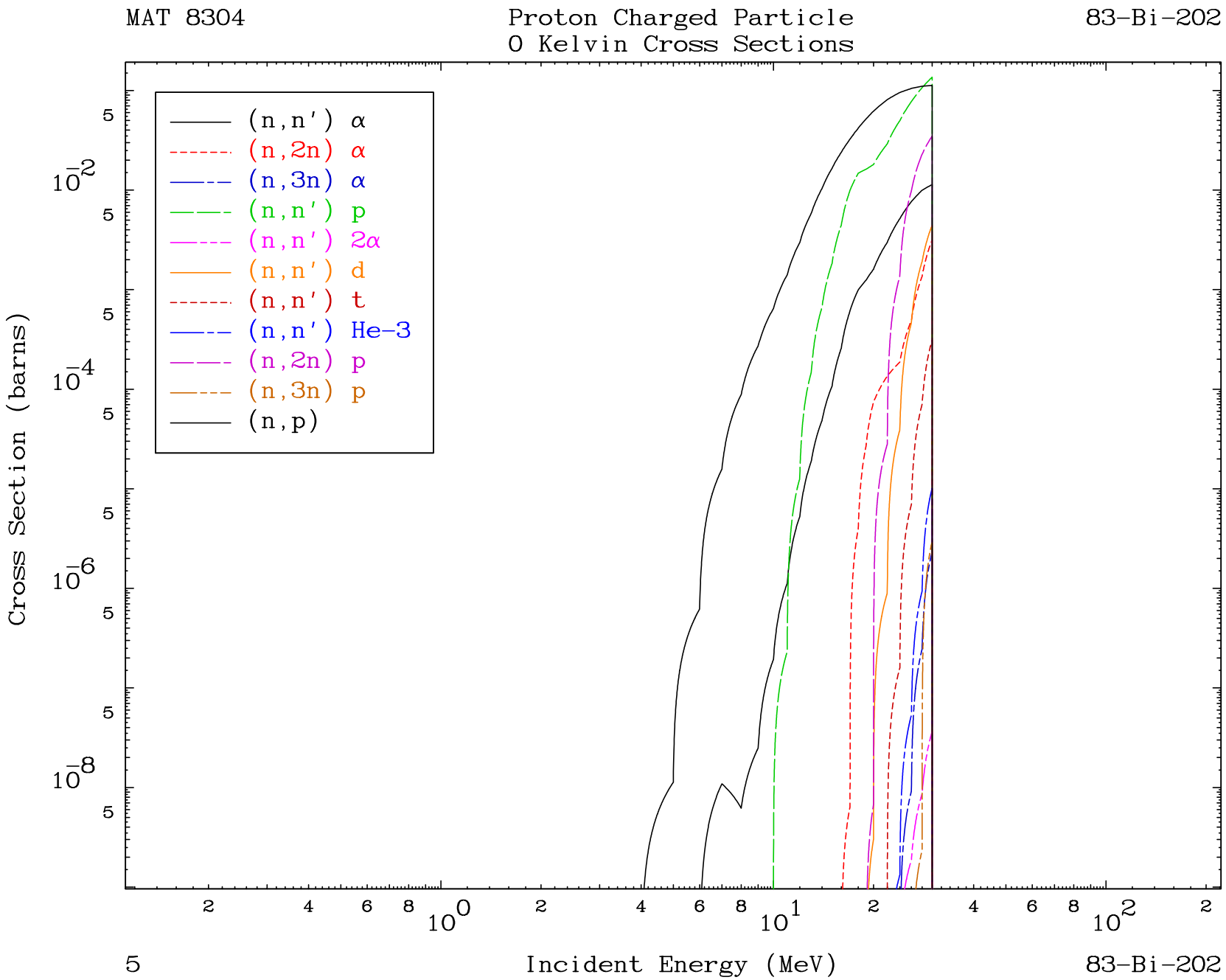
Press Mouse Button to Start

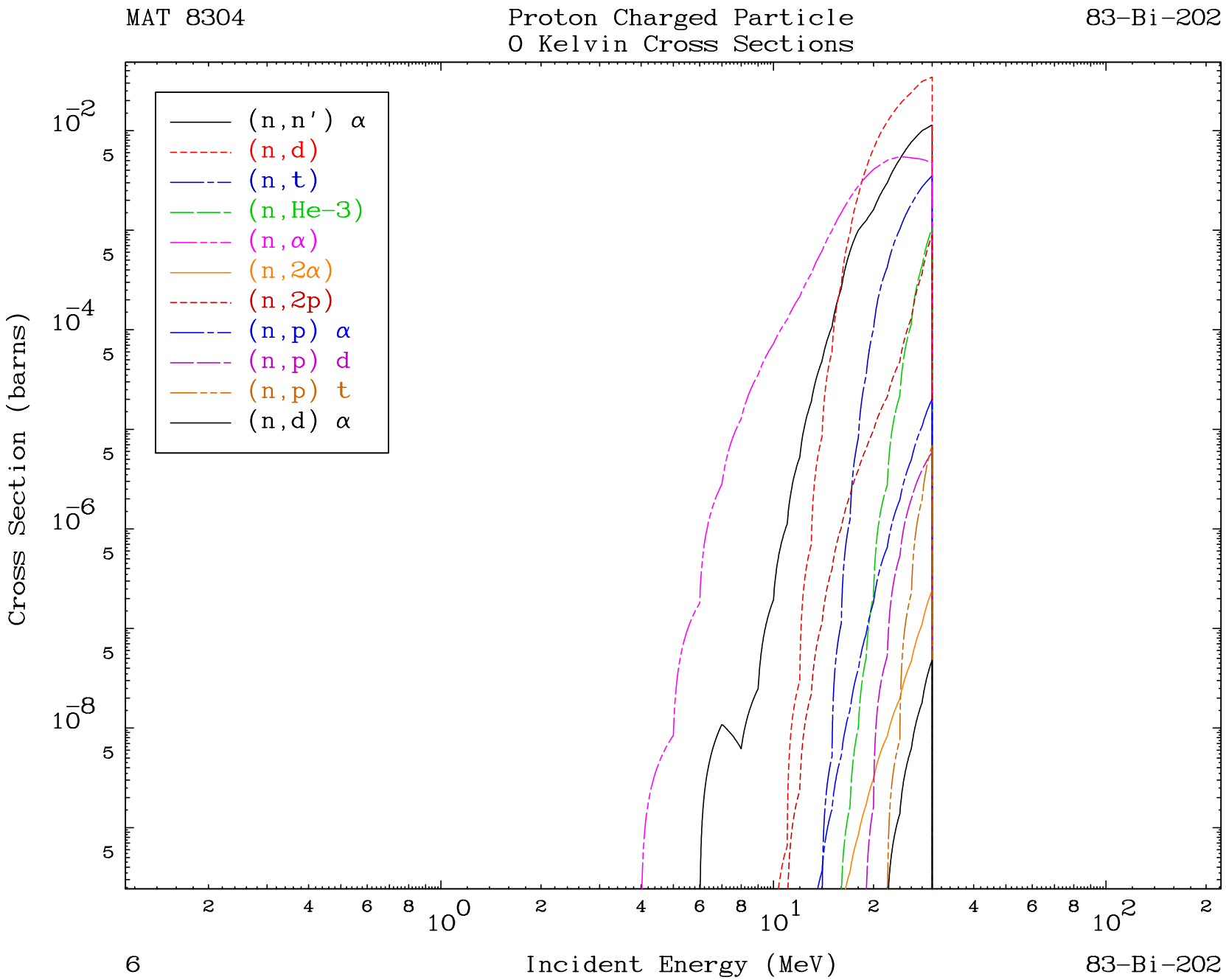

MAT 8304
Proton Major
83-Bi-202
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-202
1

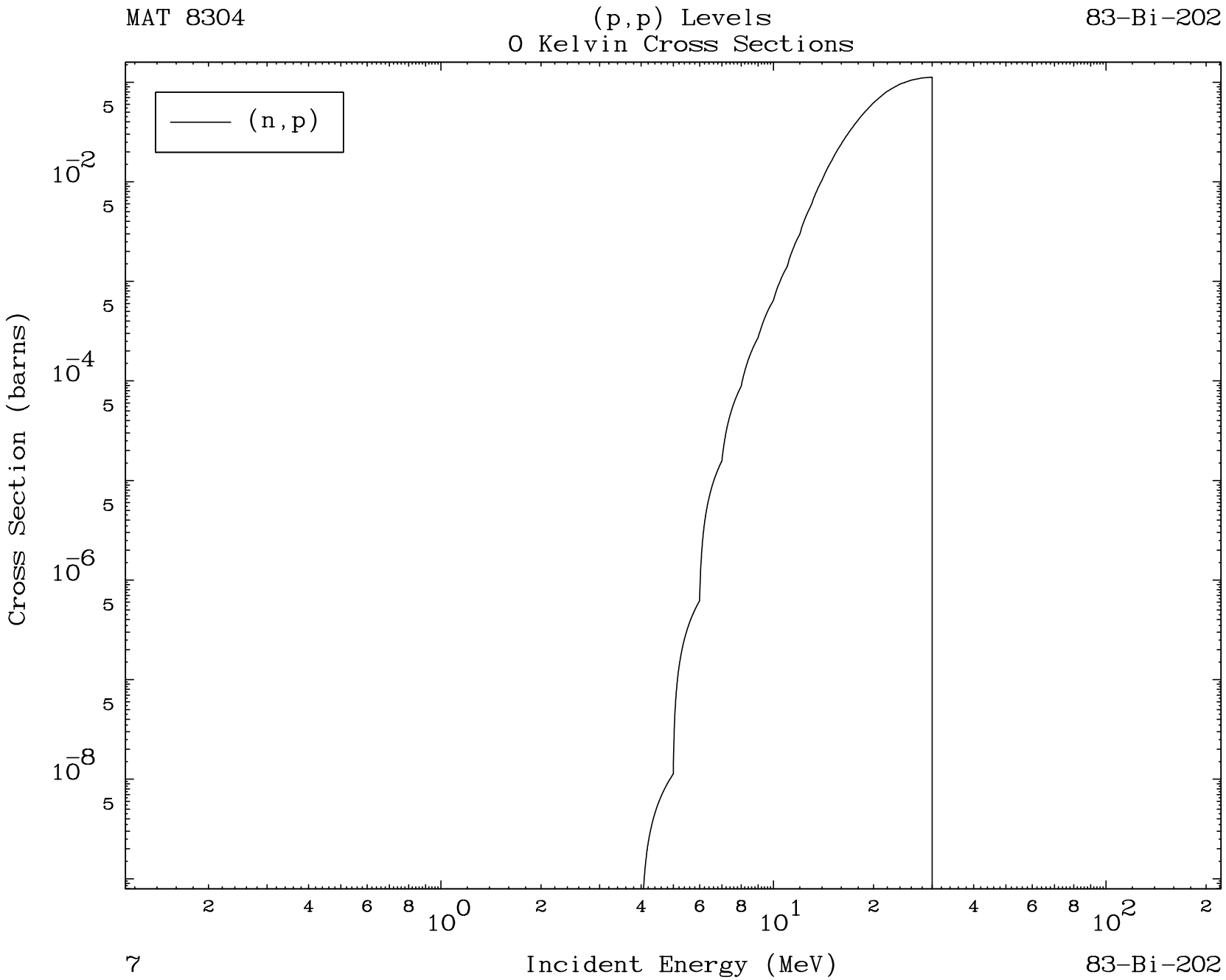

MAT 8304
Proton Neutron Absorption
0 Kelvin Cross Sections
83-Bi-202
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
83-Bi-202
2

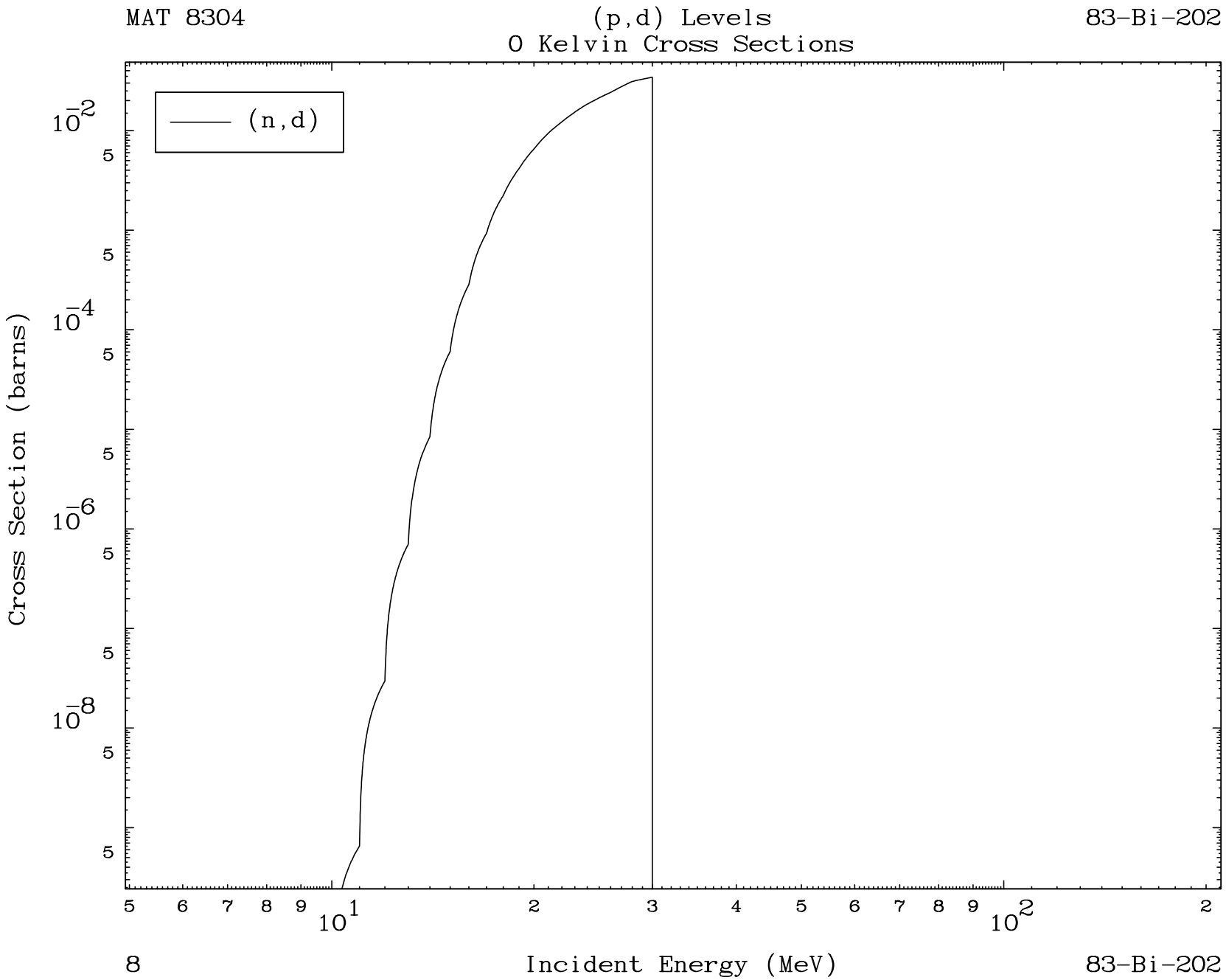

MAT 8304
Proton Neutron Absorption
0 Kelvin Cross Sections
83-Bi-202
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
3
83-Bi-202

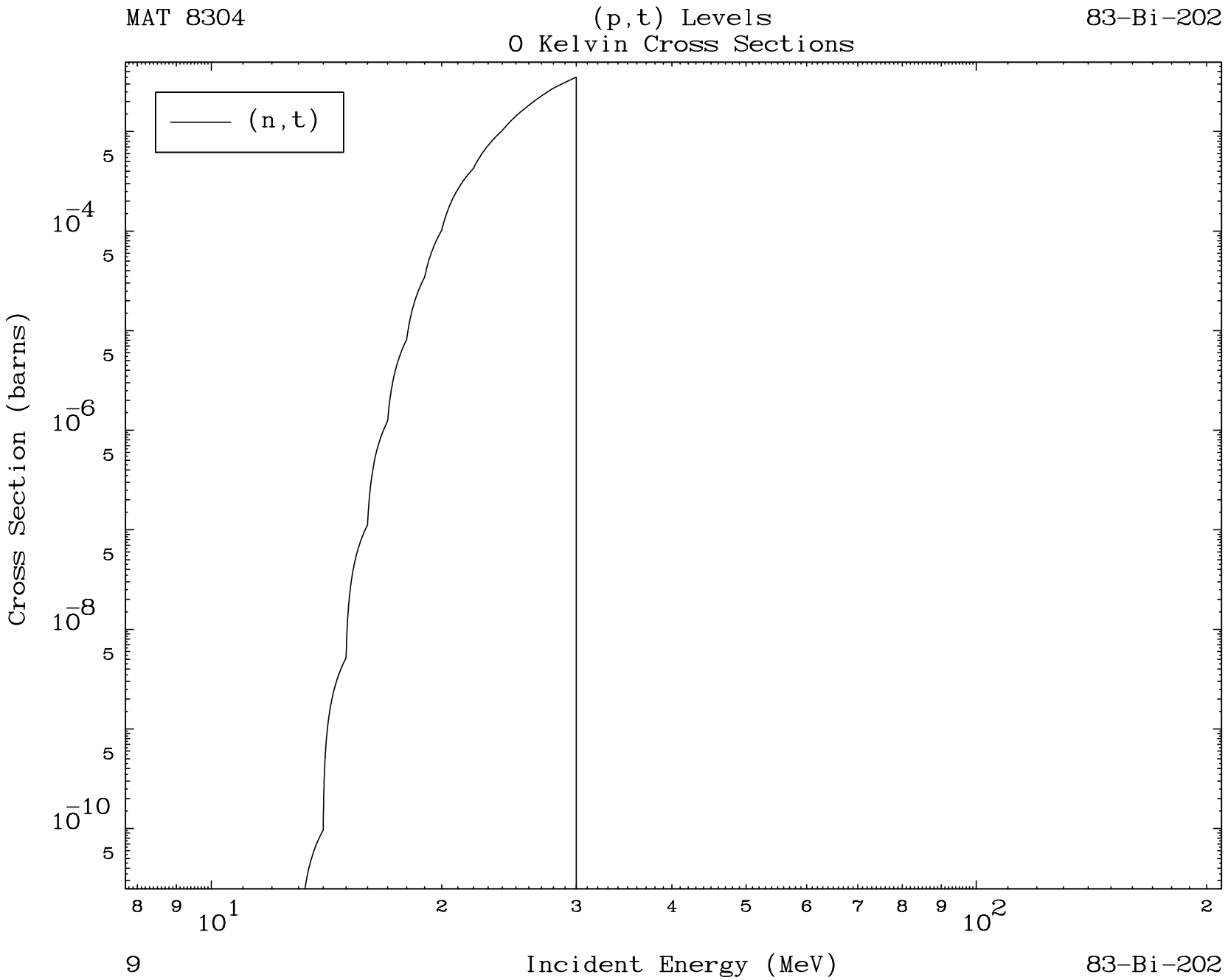

MAT 8304
Proton Neutron Absorption
0 Kelvin Cross Sections
83-Bi-202
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
83-Bi-202

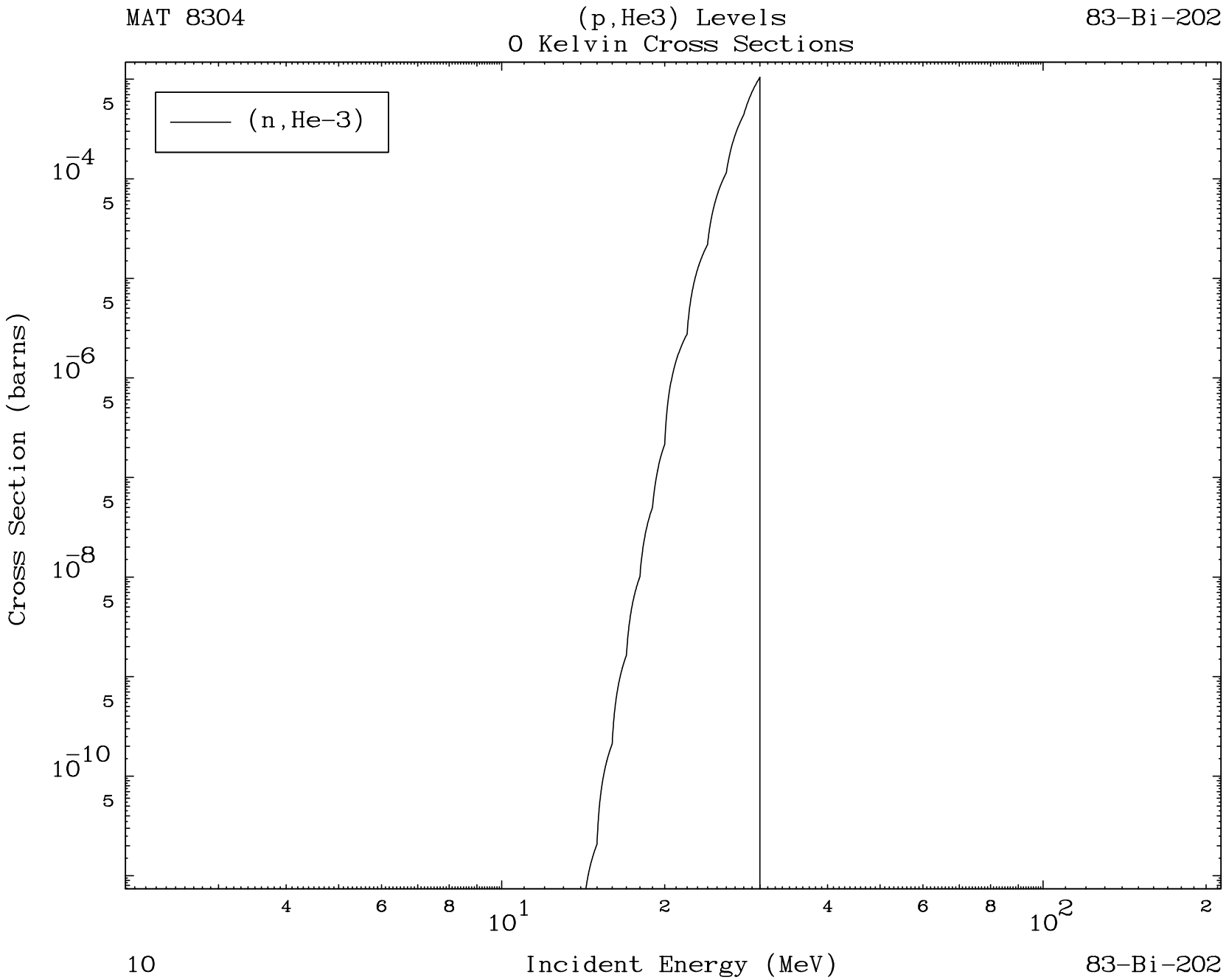

MAT 8304
Proton Charged Particle
0 Kelvin Cross Sections
83-Bi-202
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
5
83-Bi-202

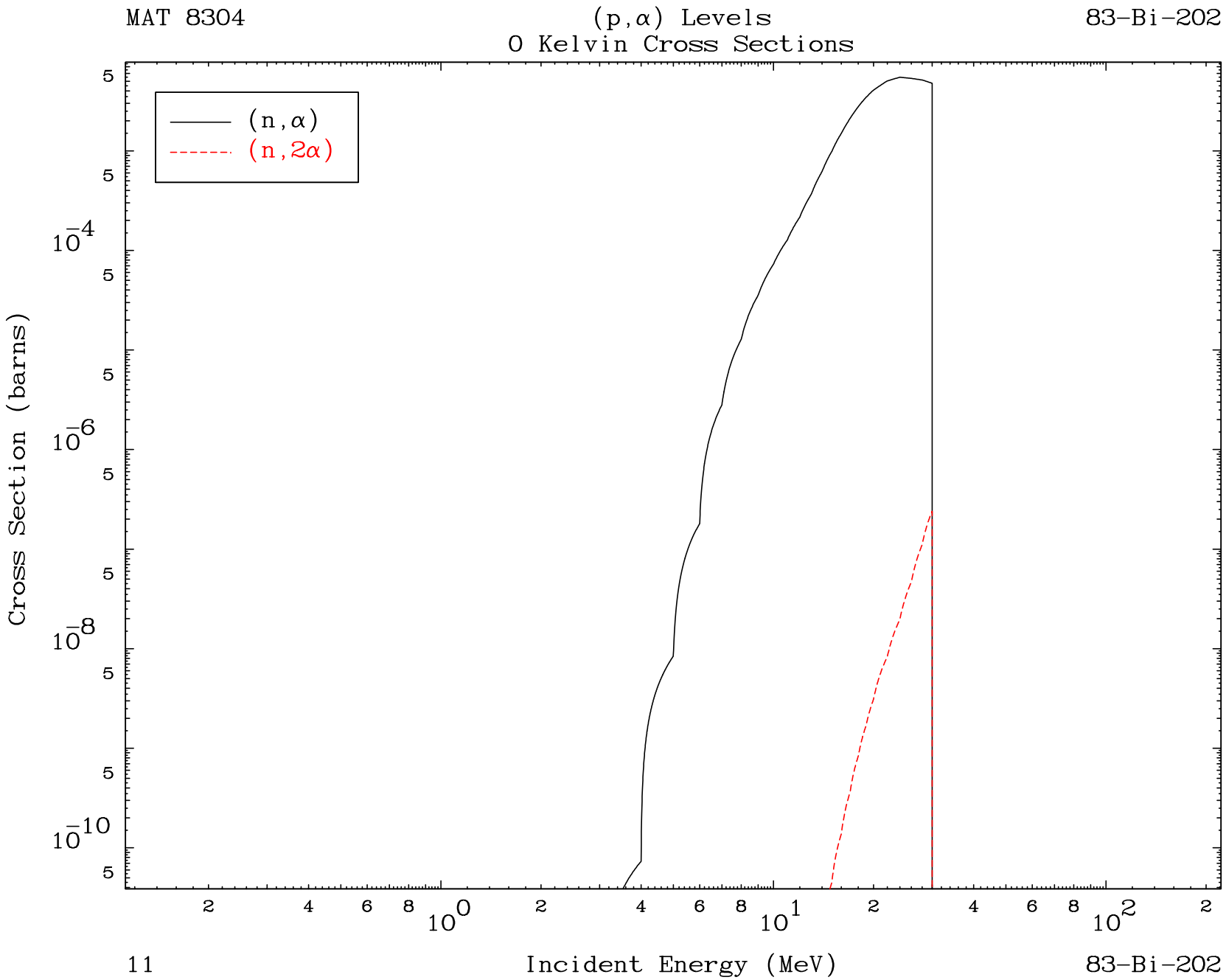

MAT 8304
Proton Charged Particle
0 Kelvin Cross Sections
83-Bi-202
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
83-Bi-202

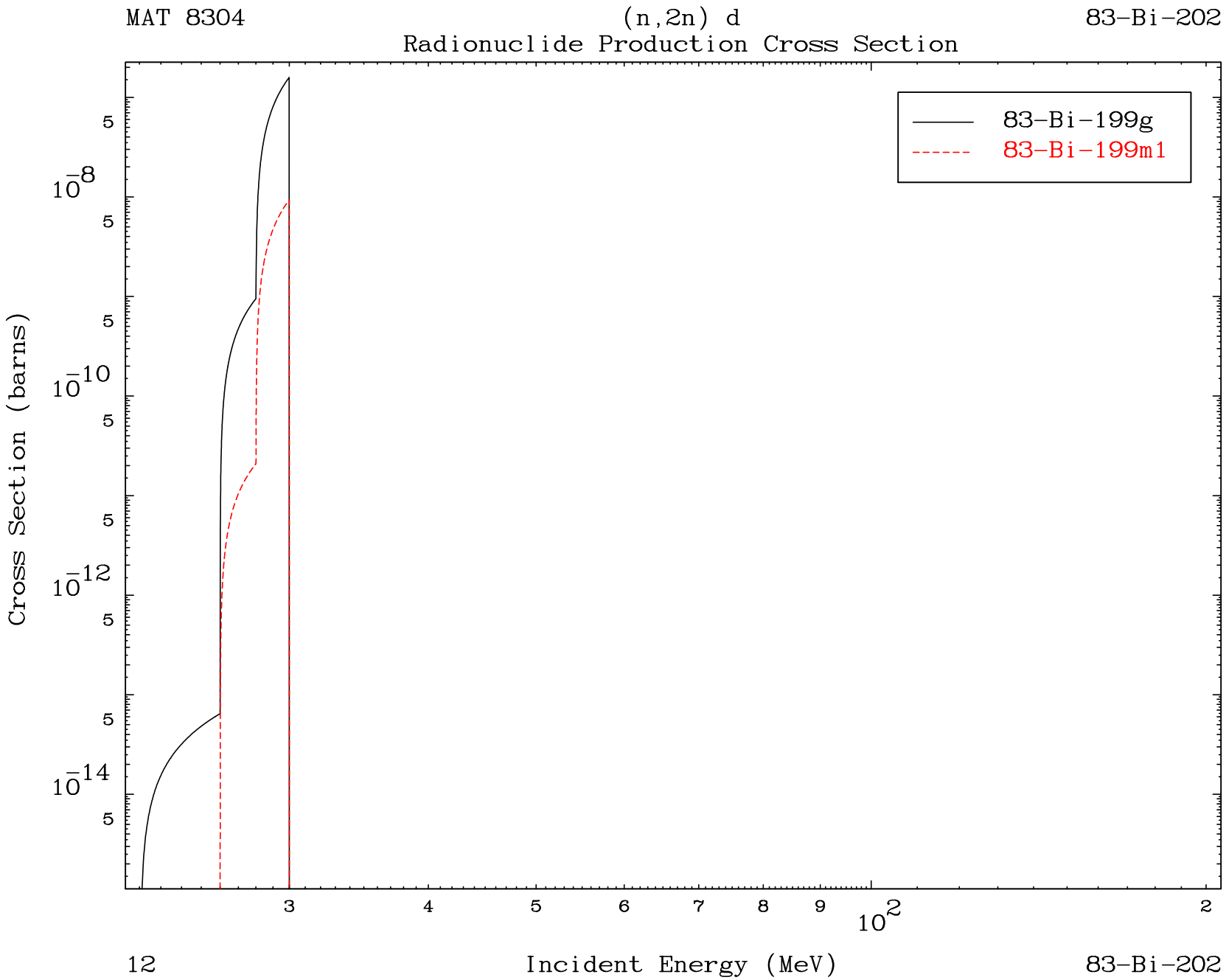

MAT 8304
(p,p) Levels
83-Bi-202
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
83-Bi-202

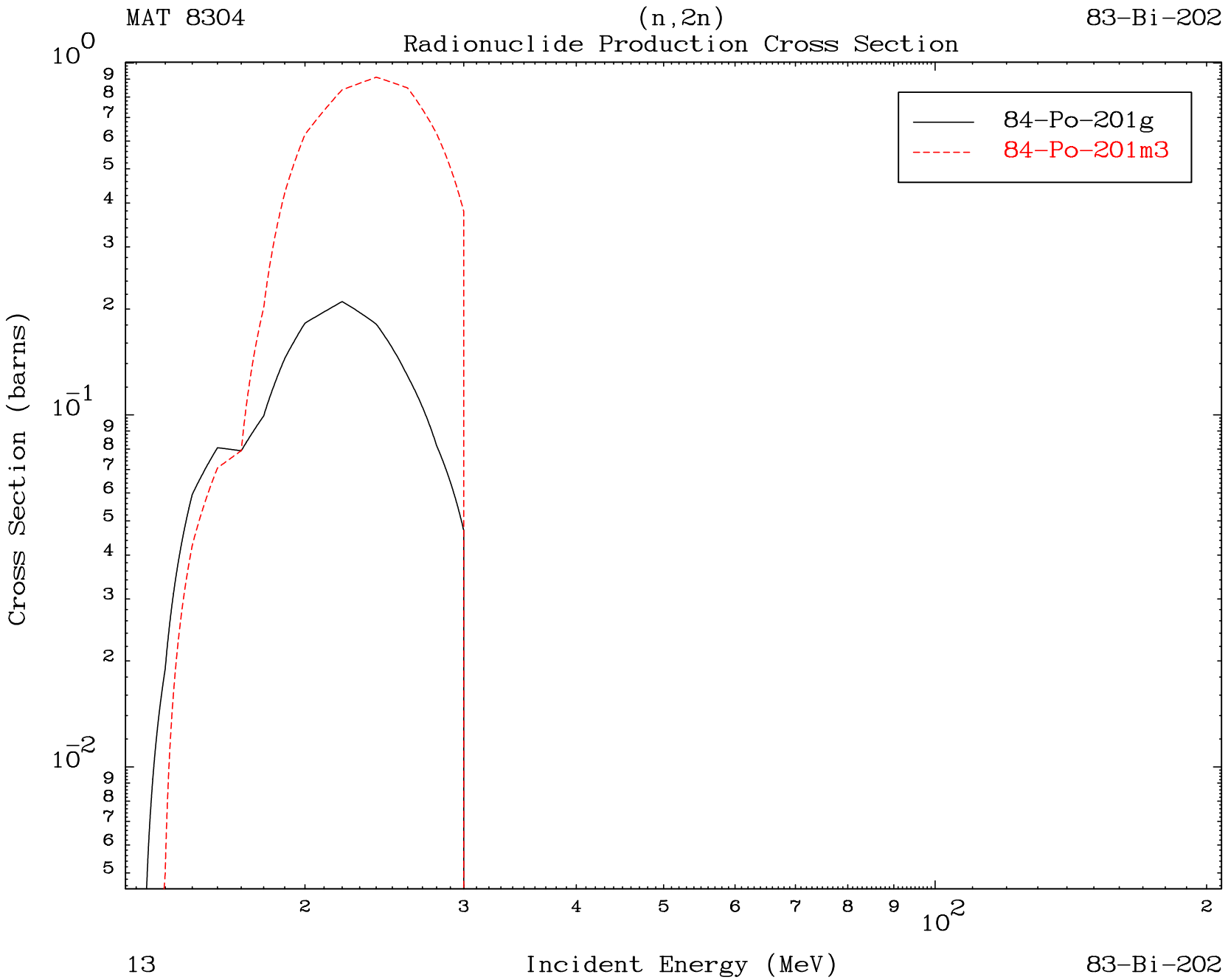

MAT 8304
(p,d) Levels
83-Bi-202
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
5
5
5
5
5
5
5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
8
83-Bi-202

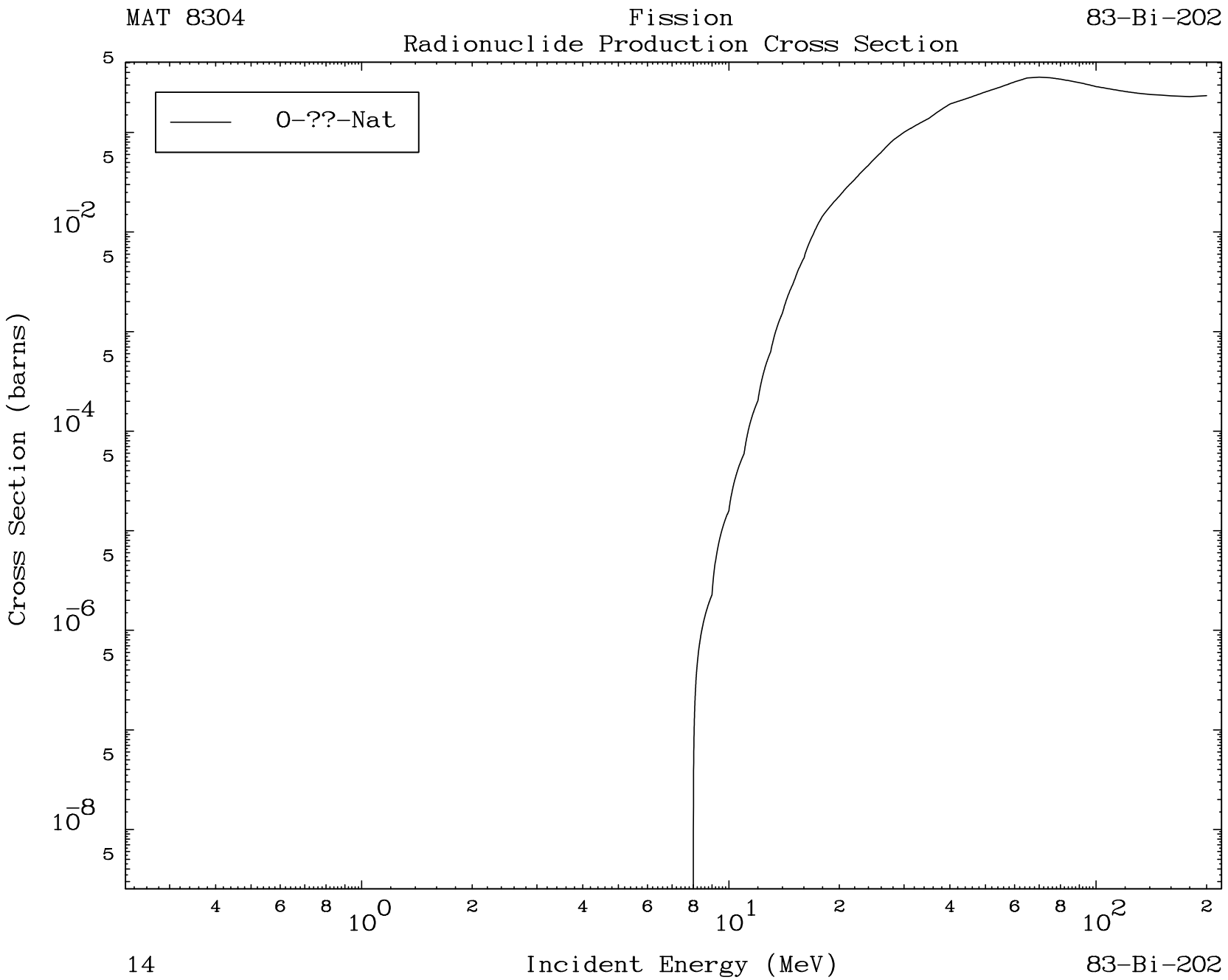

MAT 8304
(p,t) Levels
83-Bi-202
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
9
83-Bi-202

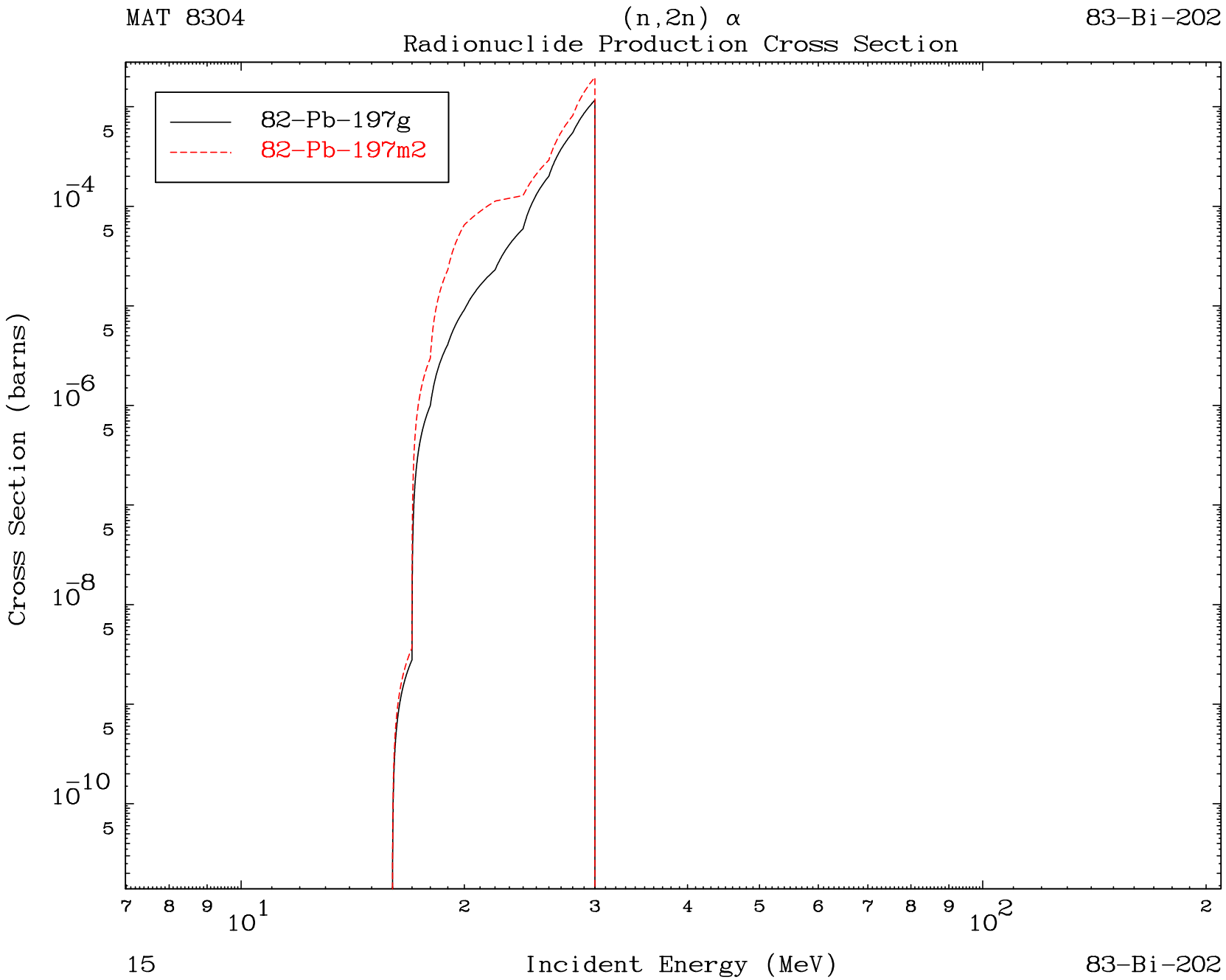

MAT 8304
(p,He3) Levels
83-Bi-202
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
10
Incident Energy (MeV)
83-Bi-202

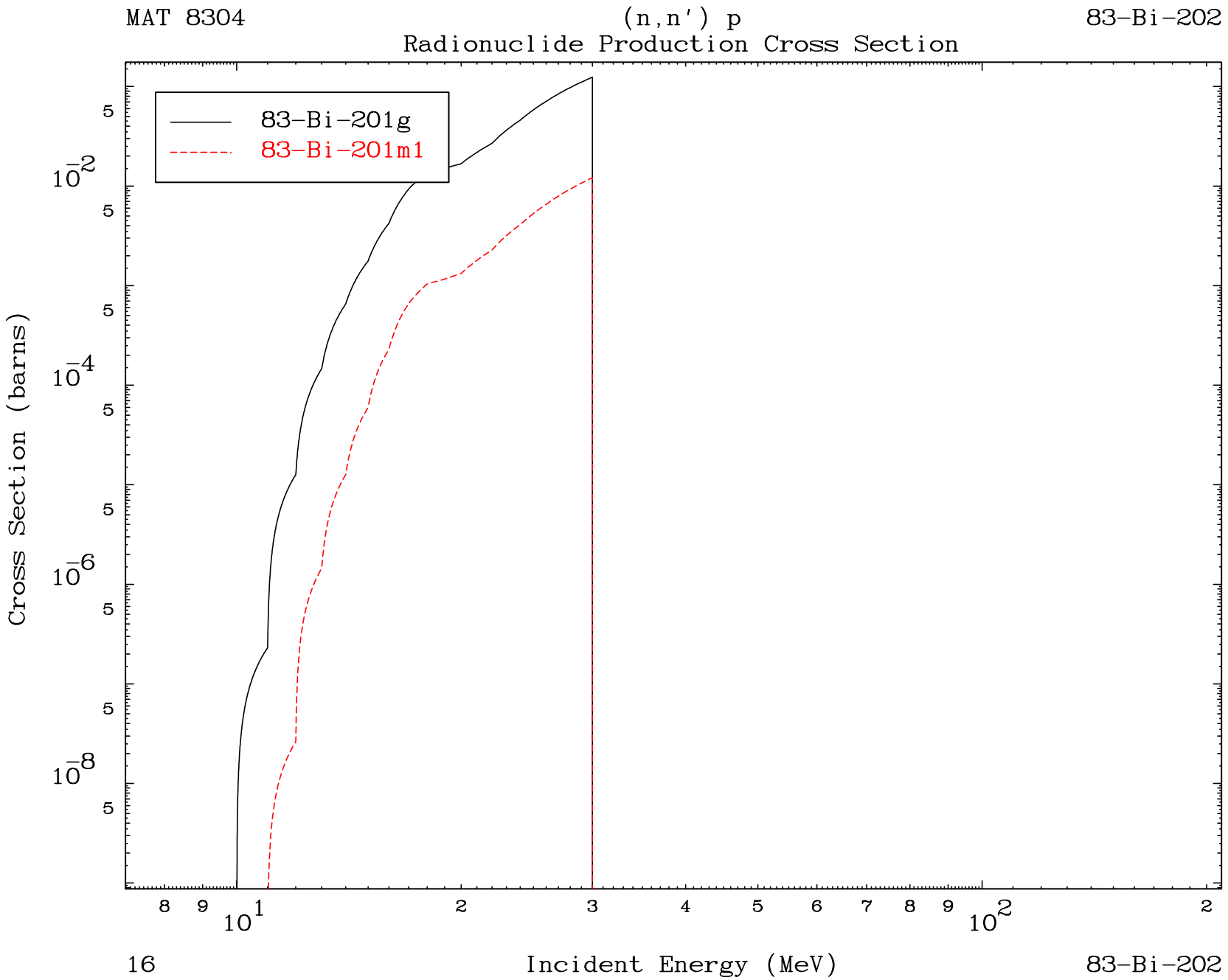

MAT 8304
(p,α) Levels
83-Bi-202
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
83-Bi-202

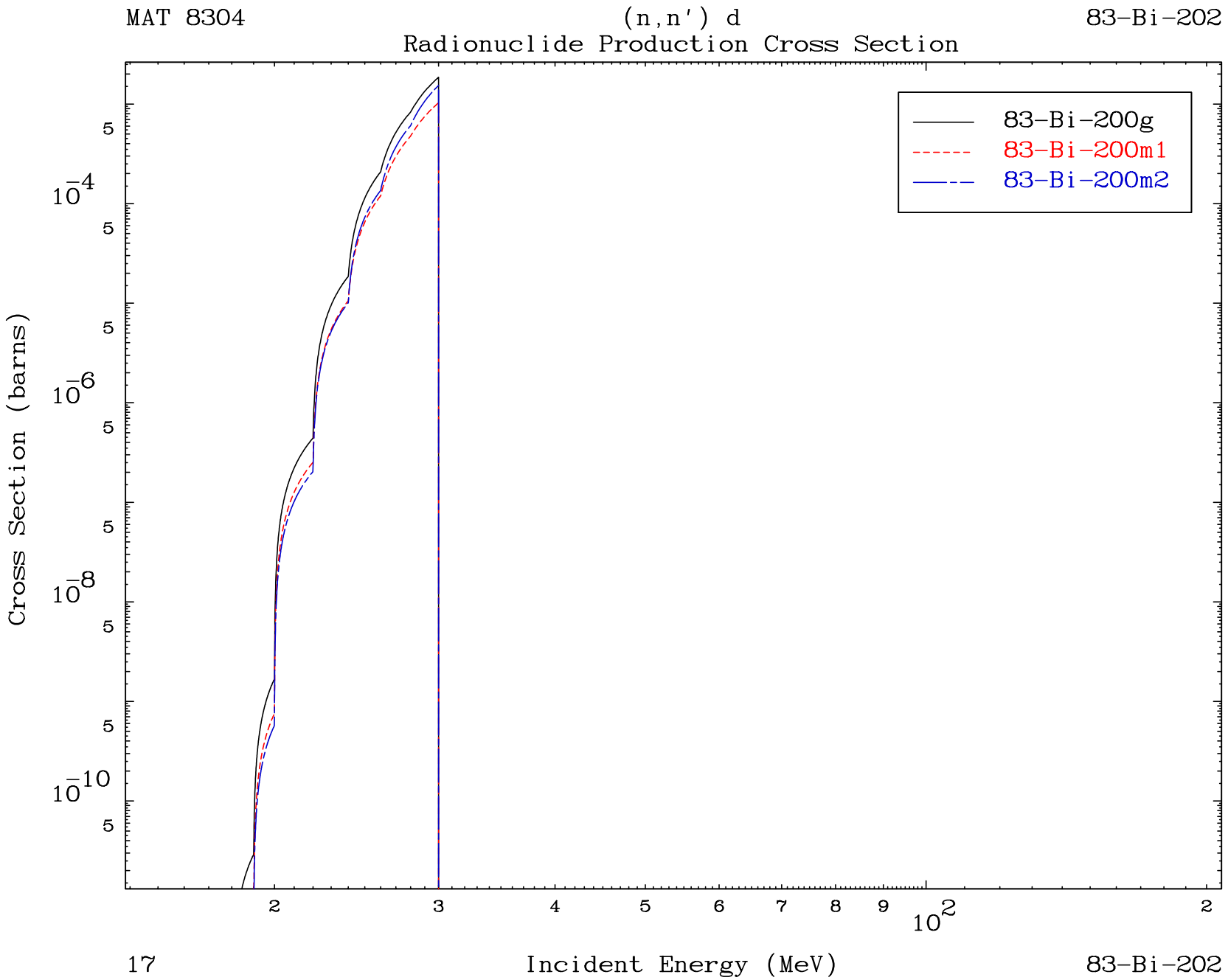

MAT 8304
(n,2n) d
83-Bi-202
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3
4
6
7
8
9
10^2
2
12
Incident Energy (MeV)
83-Bi-202

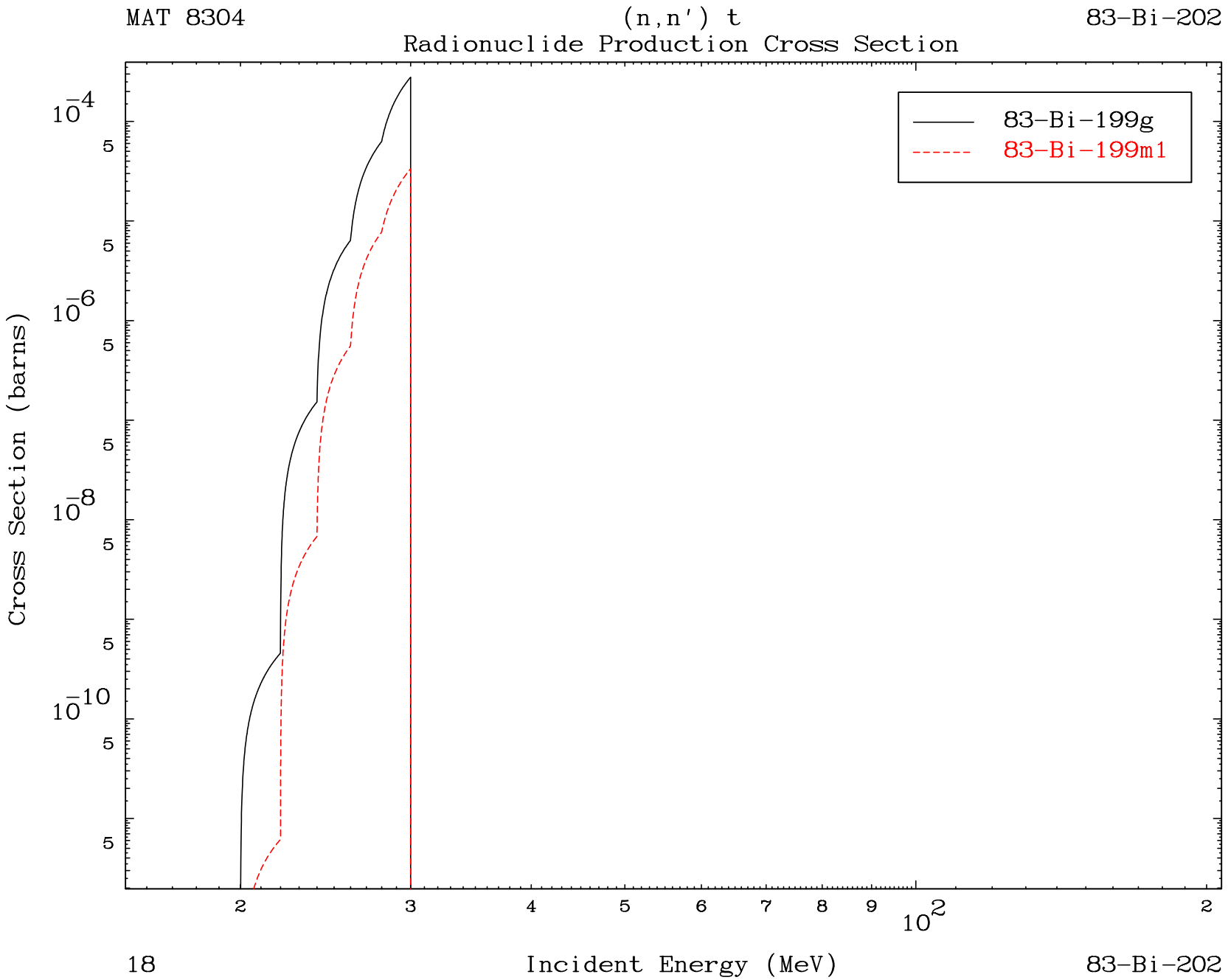

MAT 8304
(n,2n)
83-Bi-202
Radionuclide Production Cross Section
84-Po-201g
84-Po-201m3
Cross Section (barns)
Incident Energy (MeV)
13
83-Bi-202

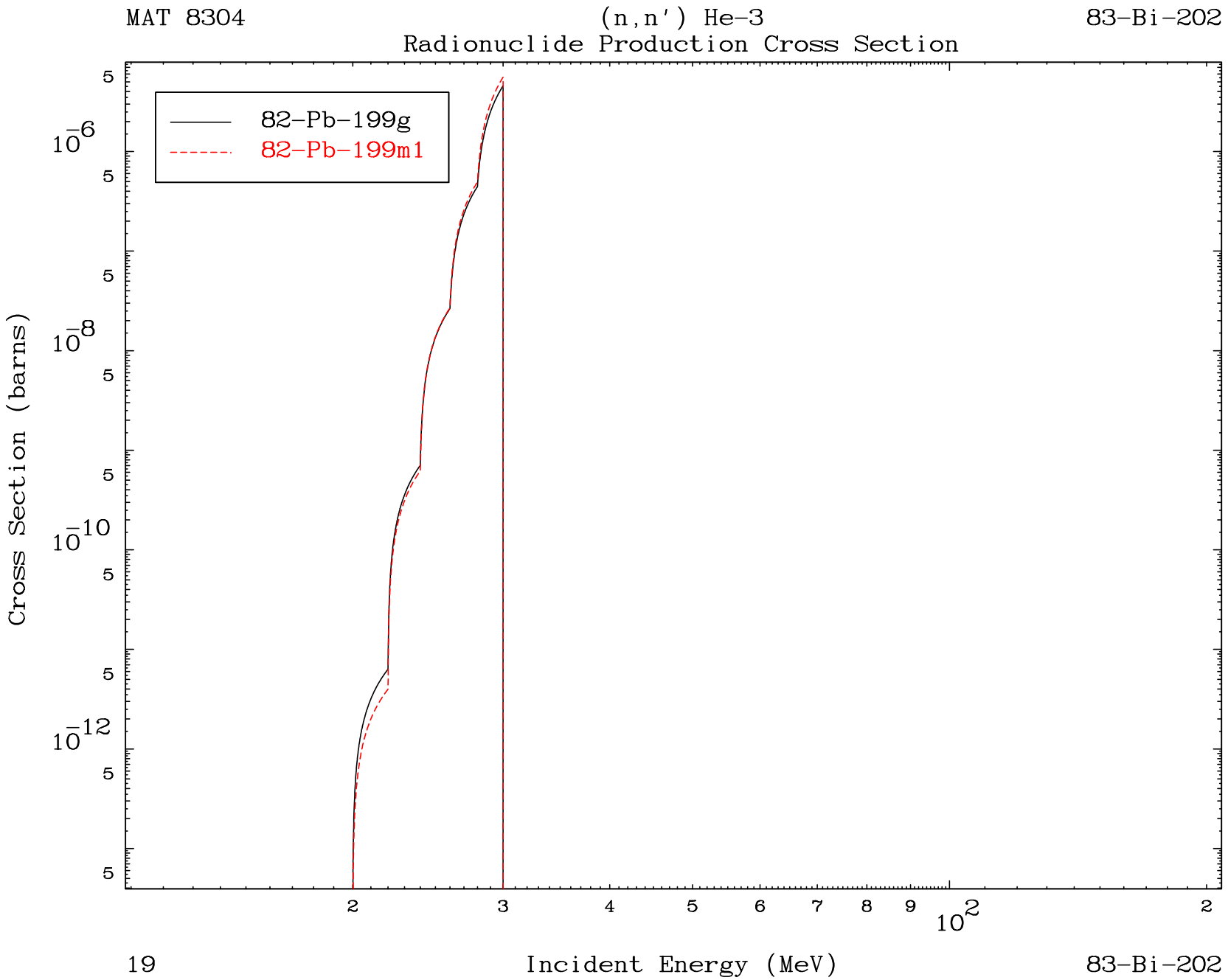

MAT 8304
Fission
83-Bi-202
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
14
83-Bi-202

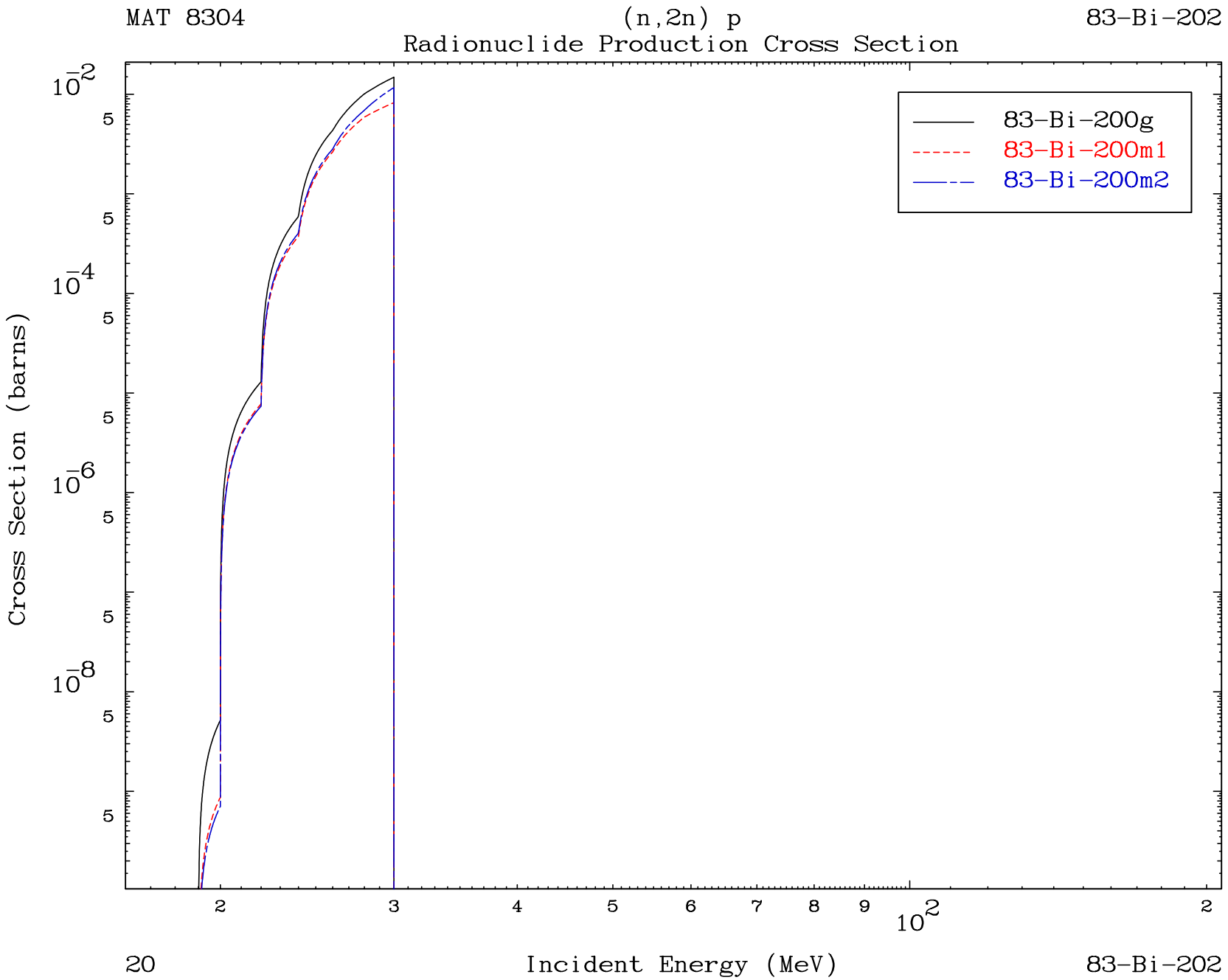

MAT 8304
(n,2n) α
83-Bi-202
Radionuclide Production Cross Section
82-Pb-197g
82-Pb-197m2
Cross Section (barns)
Incident Energy (MeV)
15
83-Bi-202

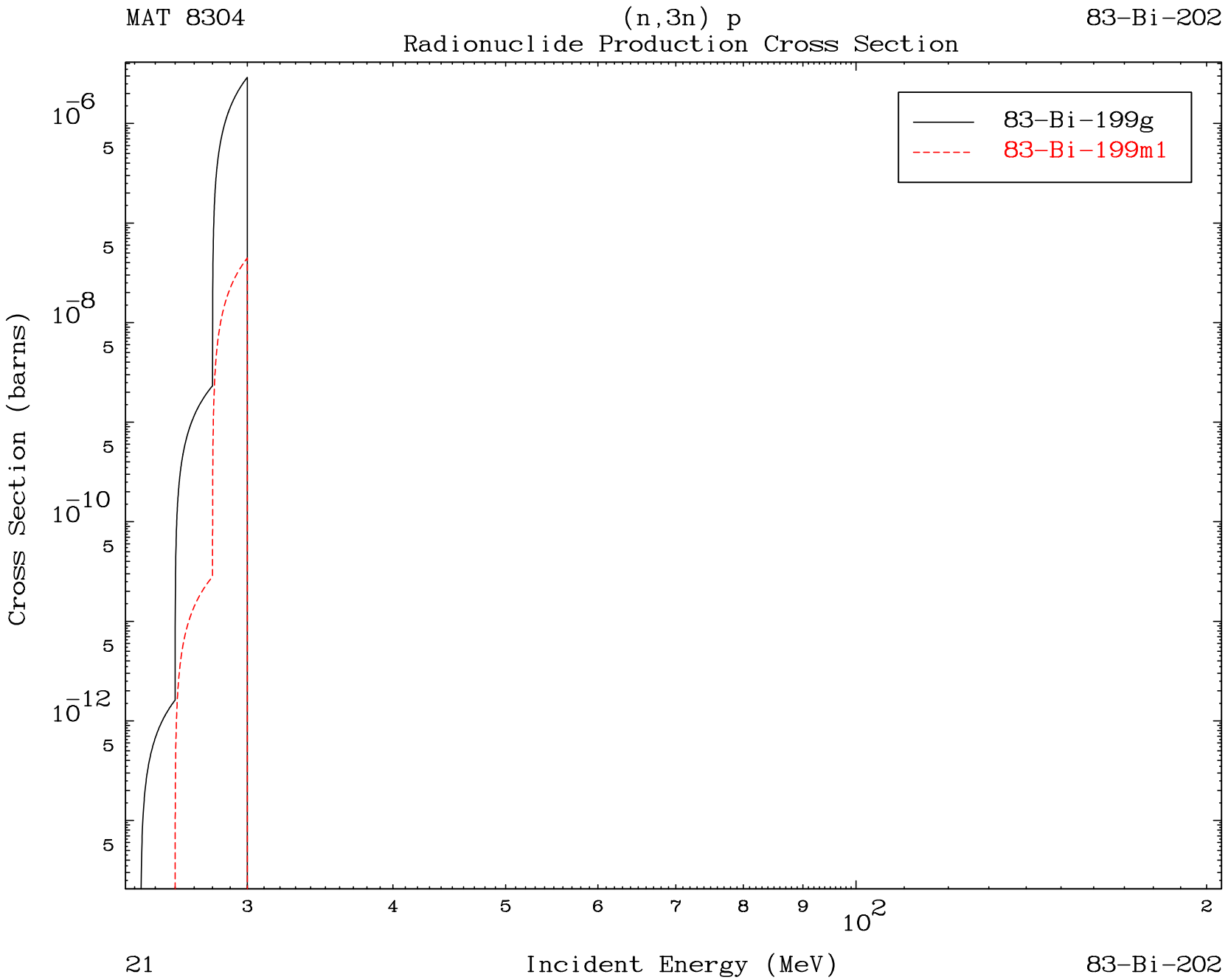

MAT 8304
(n,n') p
83-Bi-202
Radionuclide Production Cross Section
83-Bi-201g
83-Bi-201m1
Cross Section (barns)
Incident Energy (MeV)
16
83-Bi-202

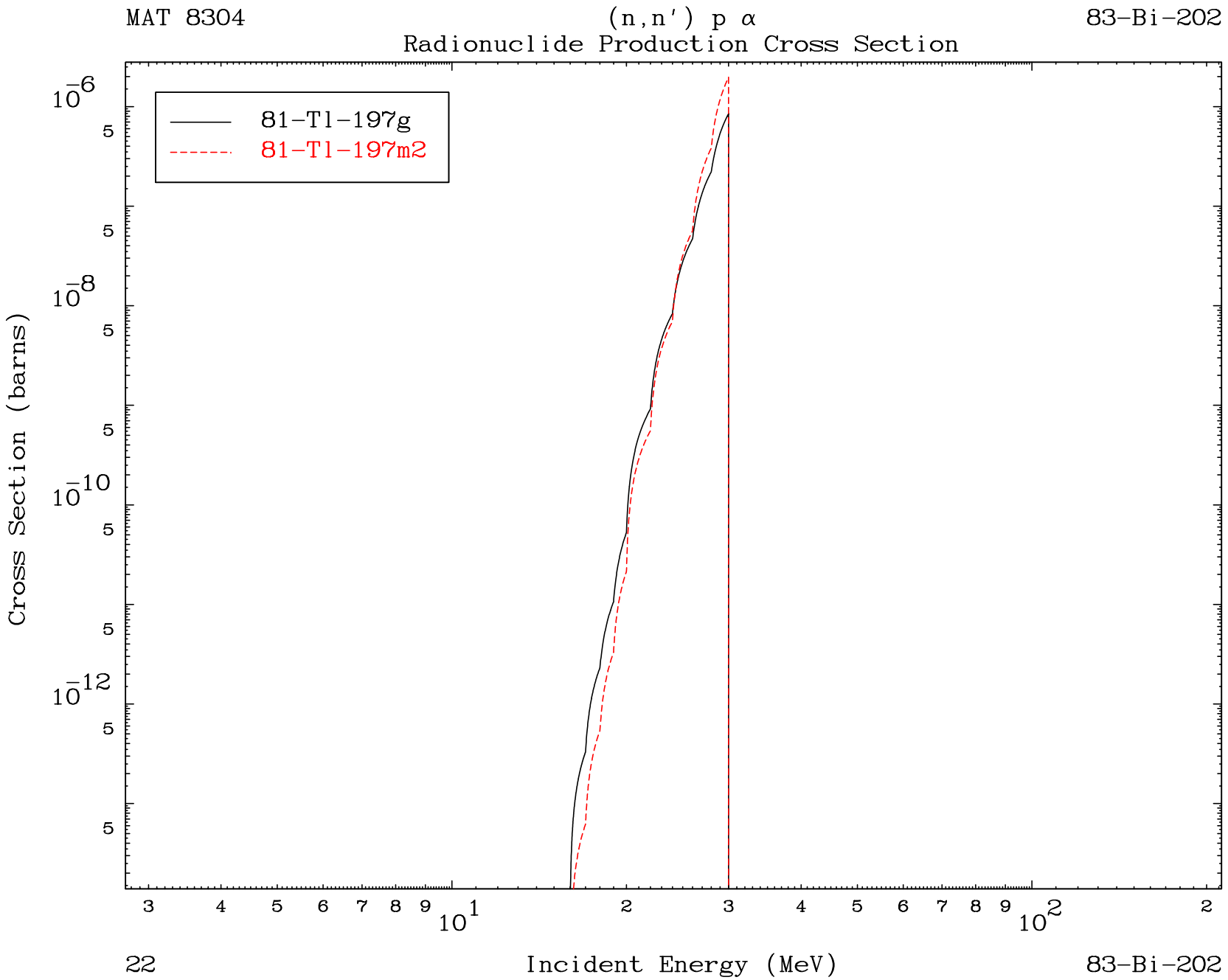

MAT 8304
(n,n') d
83-Bi-202
Radionuclide Production Cross Section
83-Bi-200g
83-Bi-200m1
83-Bi-200m2
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
83-Bi-202

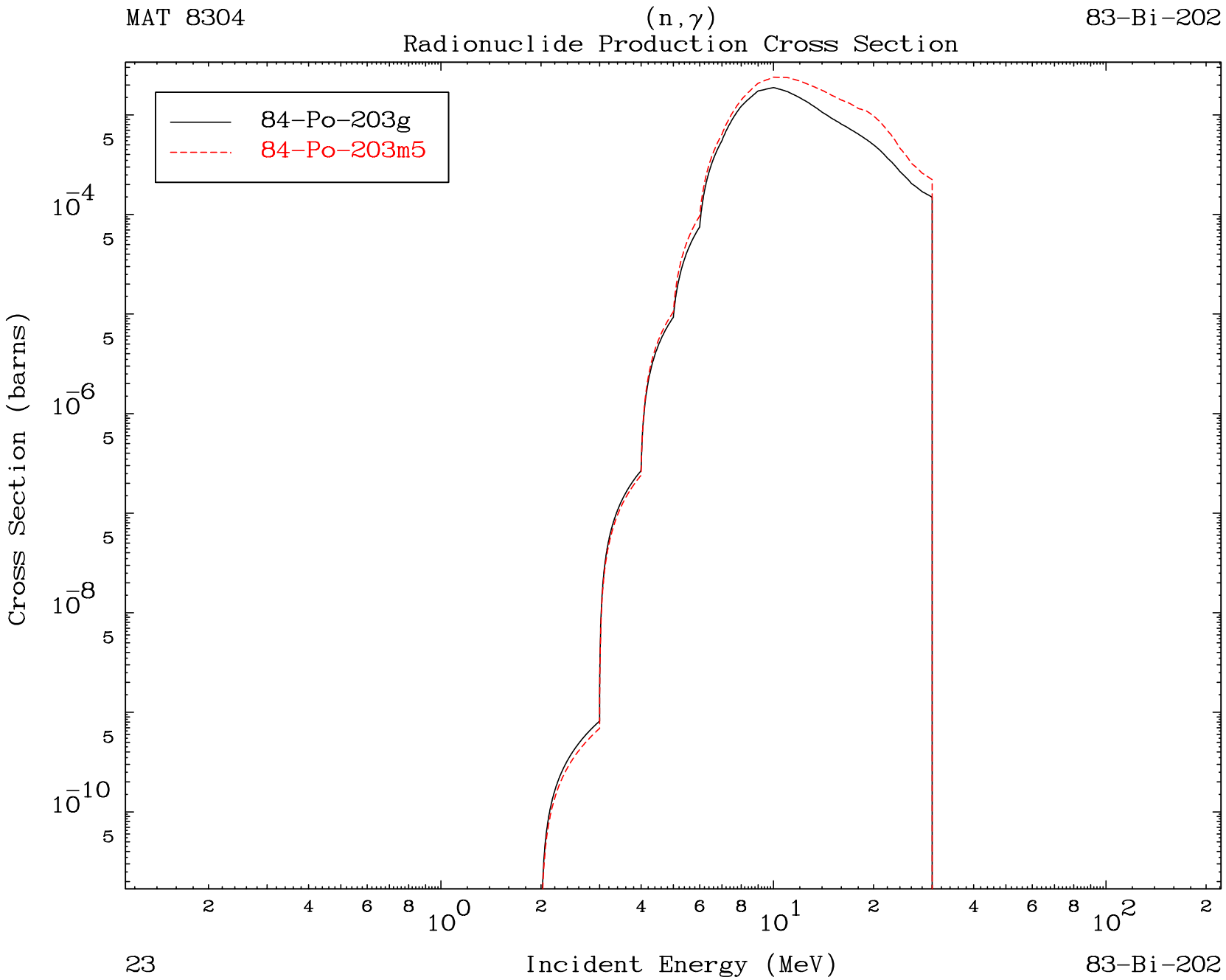

MAT 8304
(n,n') t
83-Bi-202
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
83-Bi-202

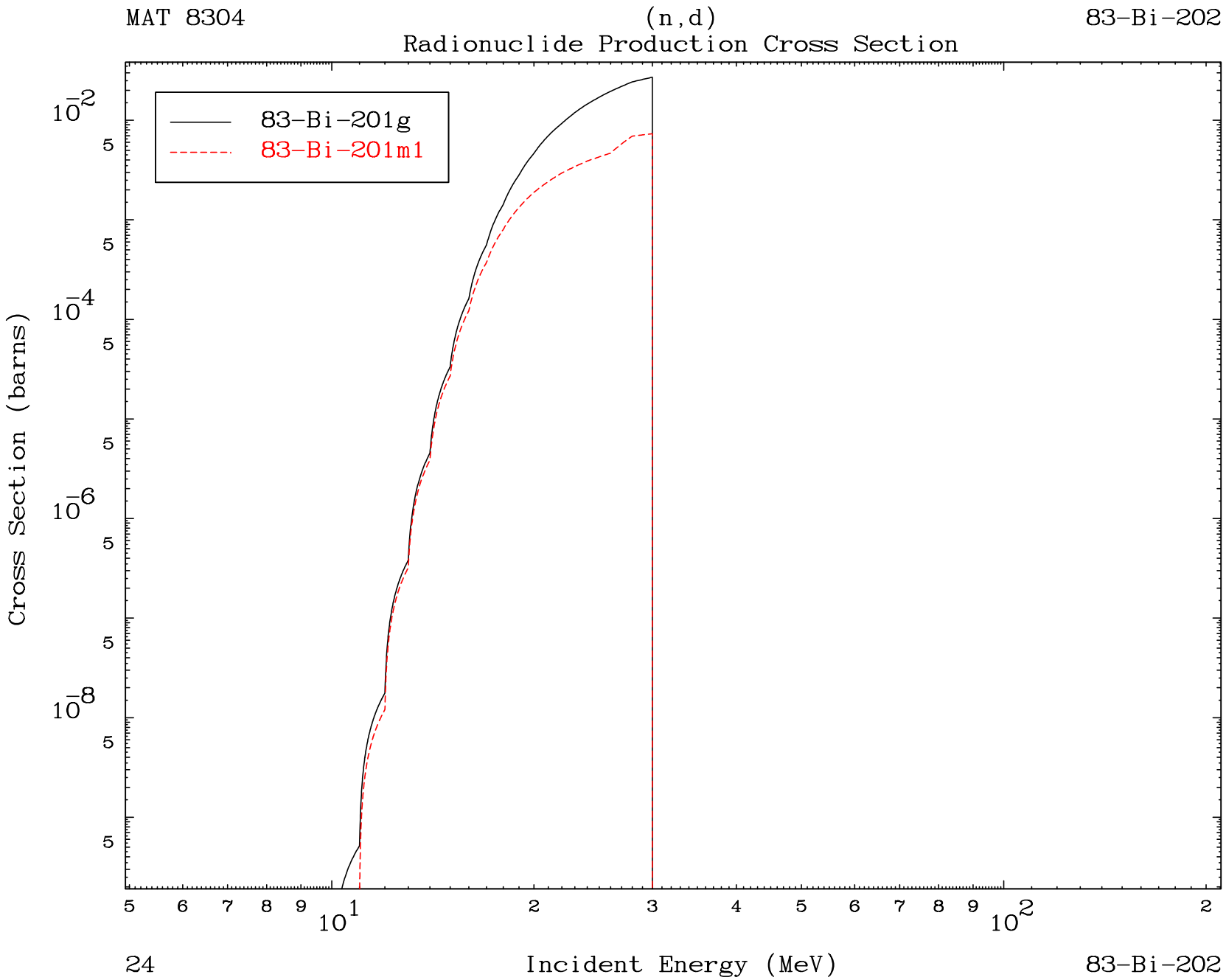

MAT 8304
(n,n') He-3
83-Bi-202
Radionuclide Production Cross Section
82-Pb-199g
82-Pb-199m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
83-Bi-202

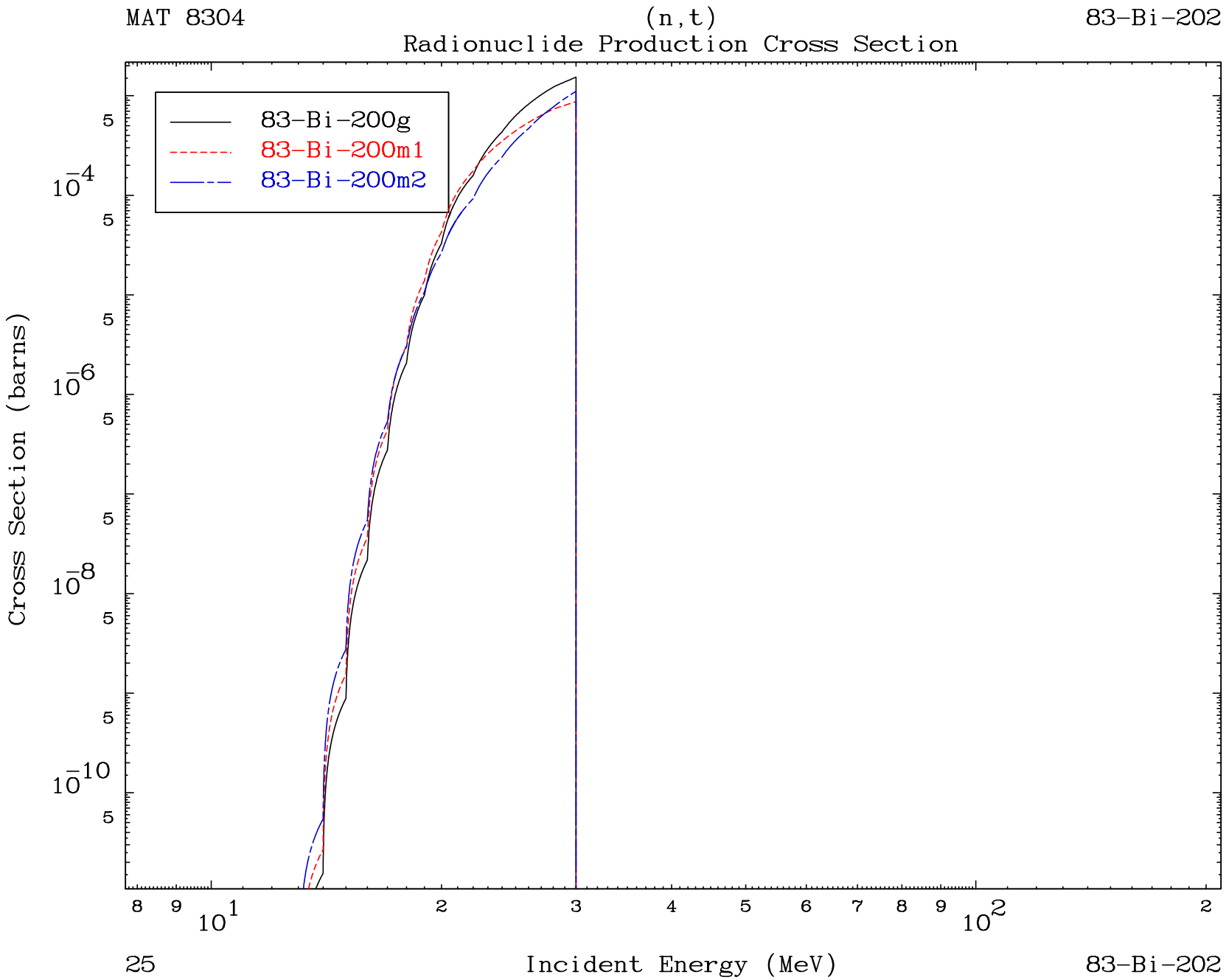

MAT 8304
(n,2n) p
83-Bi-202
Radionuclide Production Cross Section
83-Bi-200g
83-Bi-200m1
83-Bi-200m2
Cross Section (barns)
Incident Energy (MeV)
20
83-Bi-202

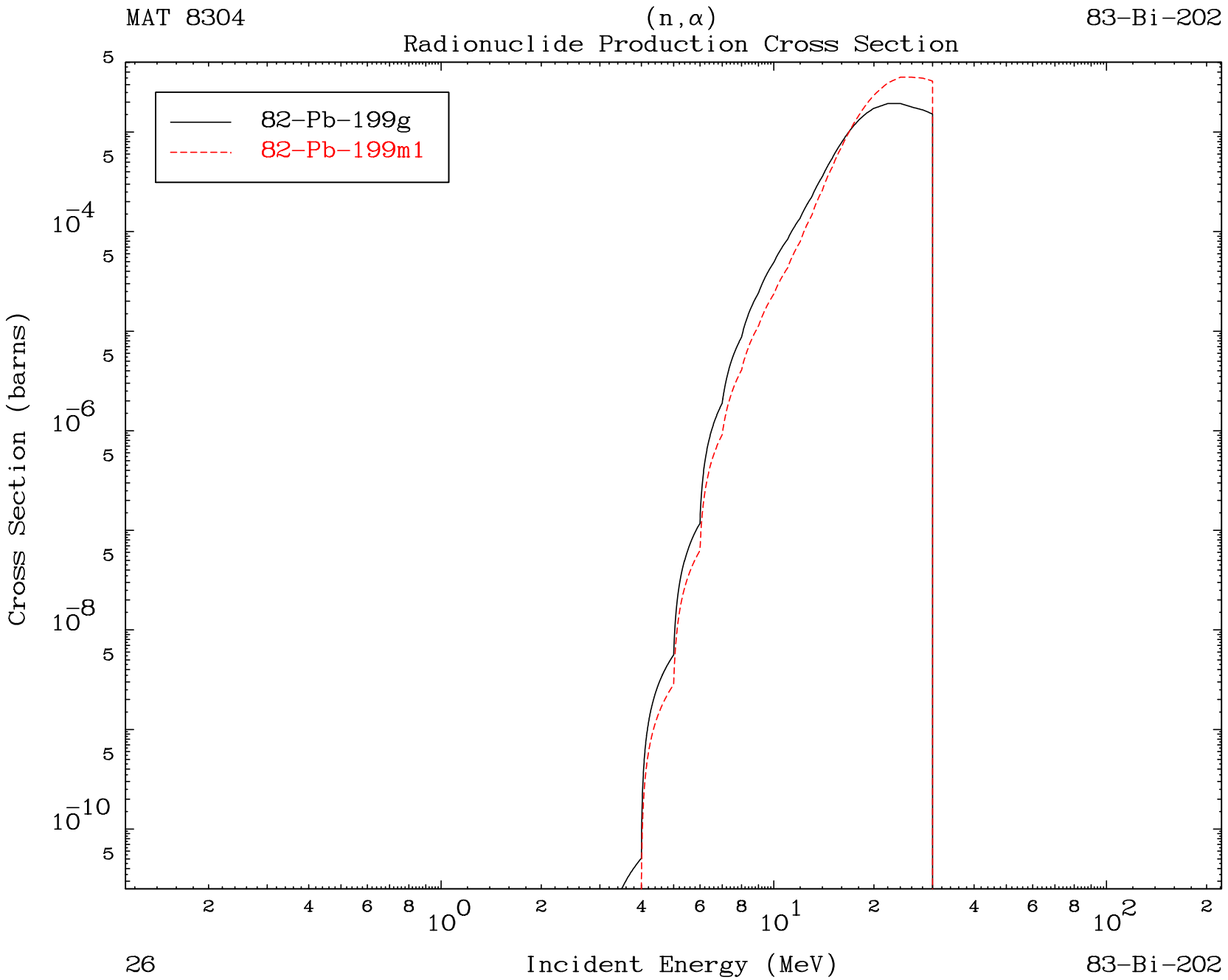

MAT 8304
(n,3n) p
83-Bi-202
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
83-Bi-202

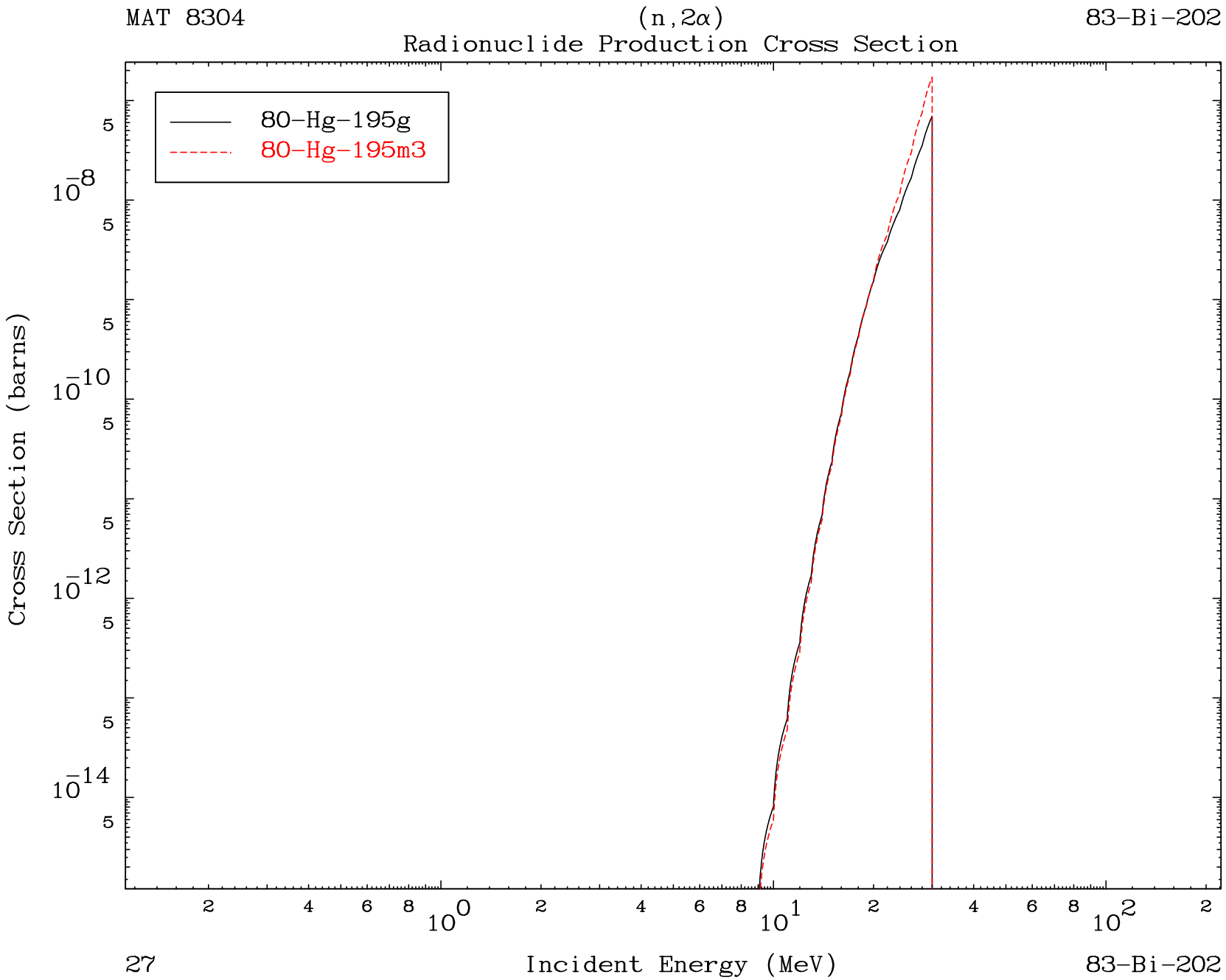

MAT 8304
(n,n') p α
83-Bi-202
Radionuclide Production Cross Section
81-Tl-197g
81-Tl-197m2
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
22
Incident Energy (MeV)
83-Bi-202

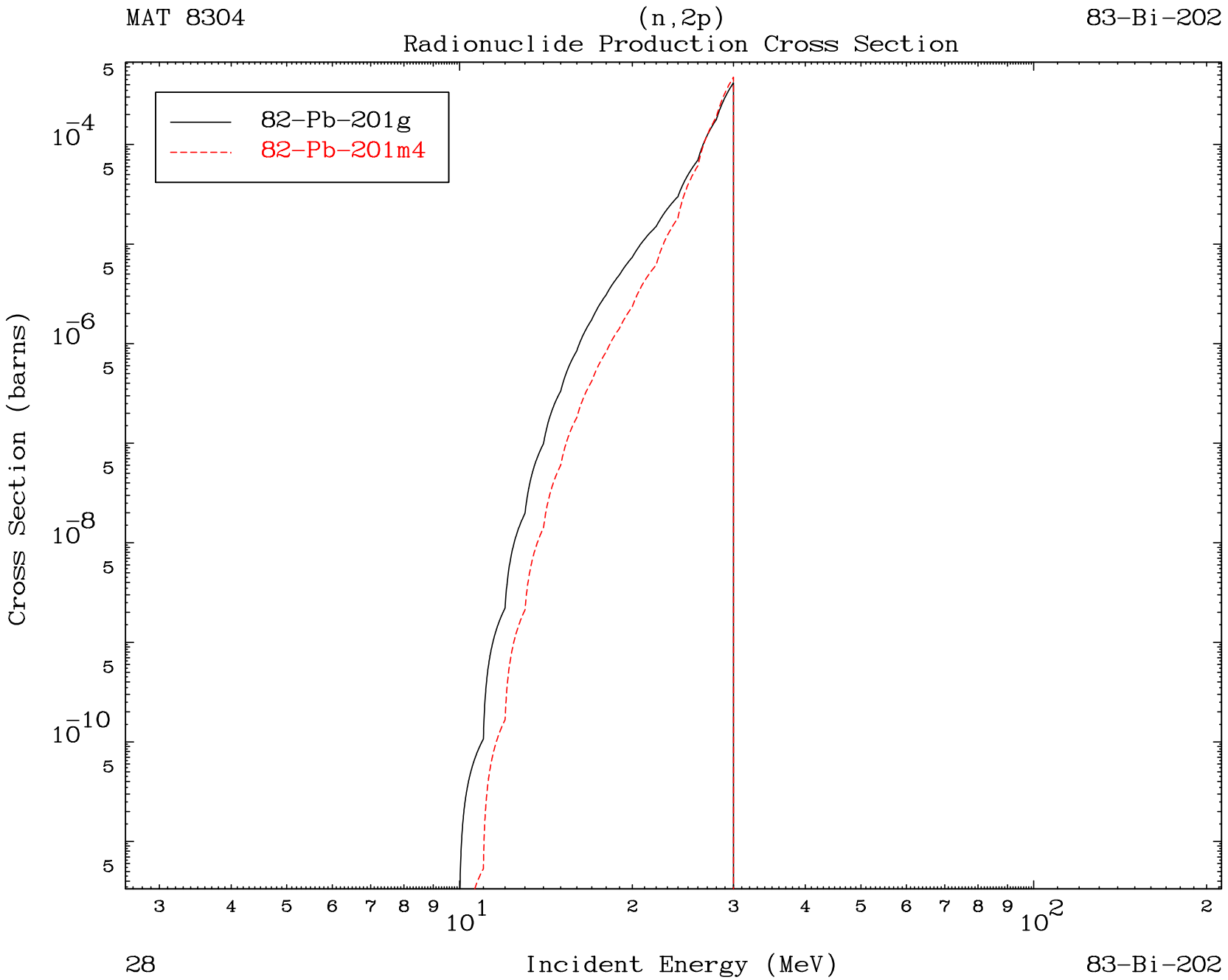

MAT 8304
(n,γ)
83-Bi-202
Radionuclide Production Cross Section
84-Po-203g
84-Po-203m5
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
23
83-Bi-202

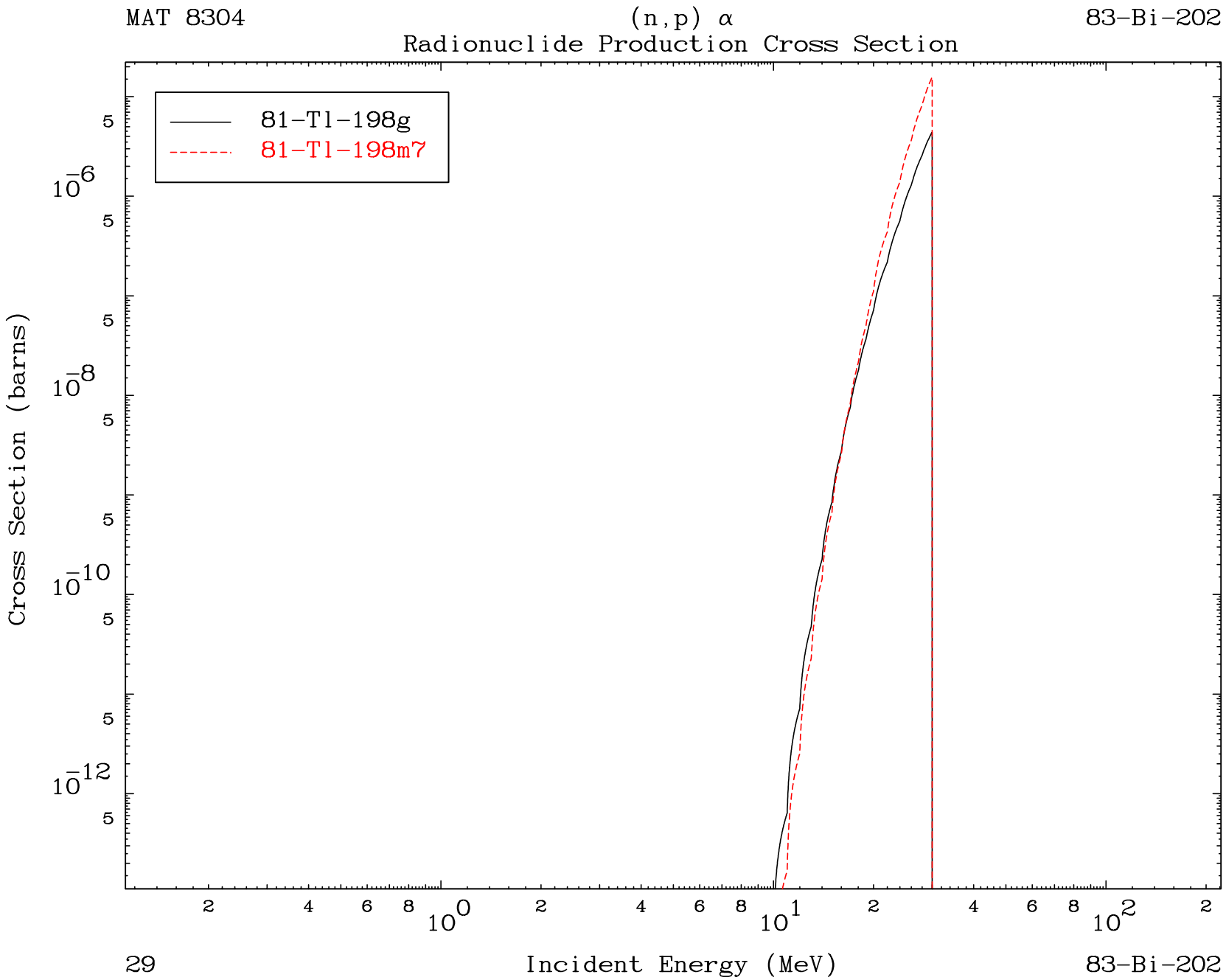

MAT 8304
(n,d)
83-Bi-202
Radionuclide Production Cross Section
83-Bi-201g
83-Bi-201m1
Cross Section (barns)
Incident Energy (MeV)
24
83-Bi-202

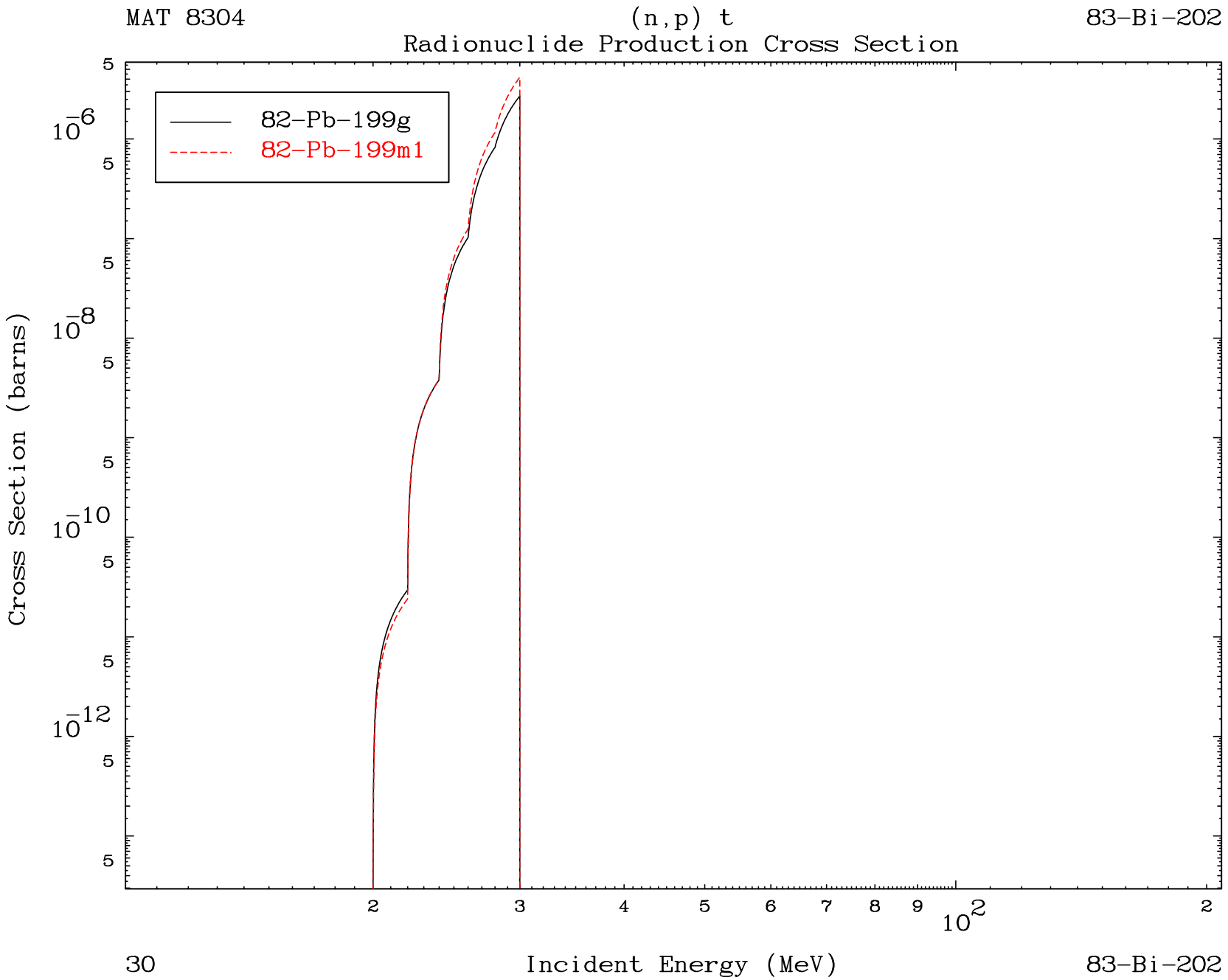

MAT 8304
(n,t)
83-Bi-202
Radionuclide Production Cross Section
83-Bi-200g
83-Bi-200m1
83-Bi-200m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
25
Incident Energy (MeV)
83-Bi-202

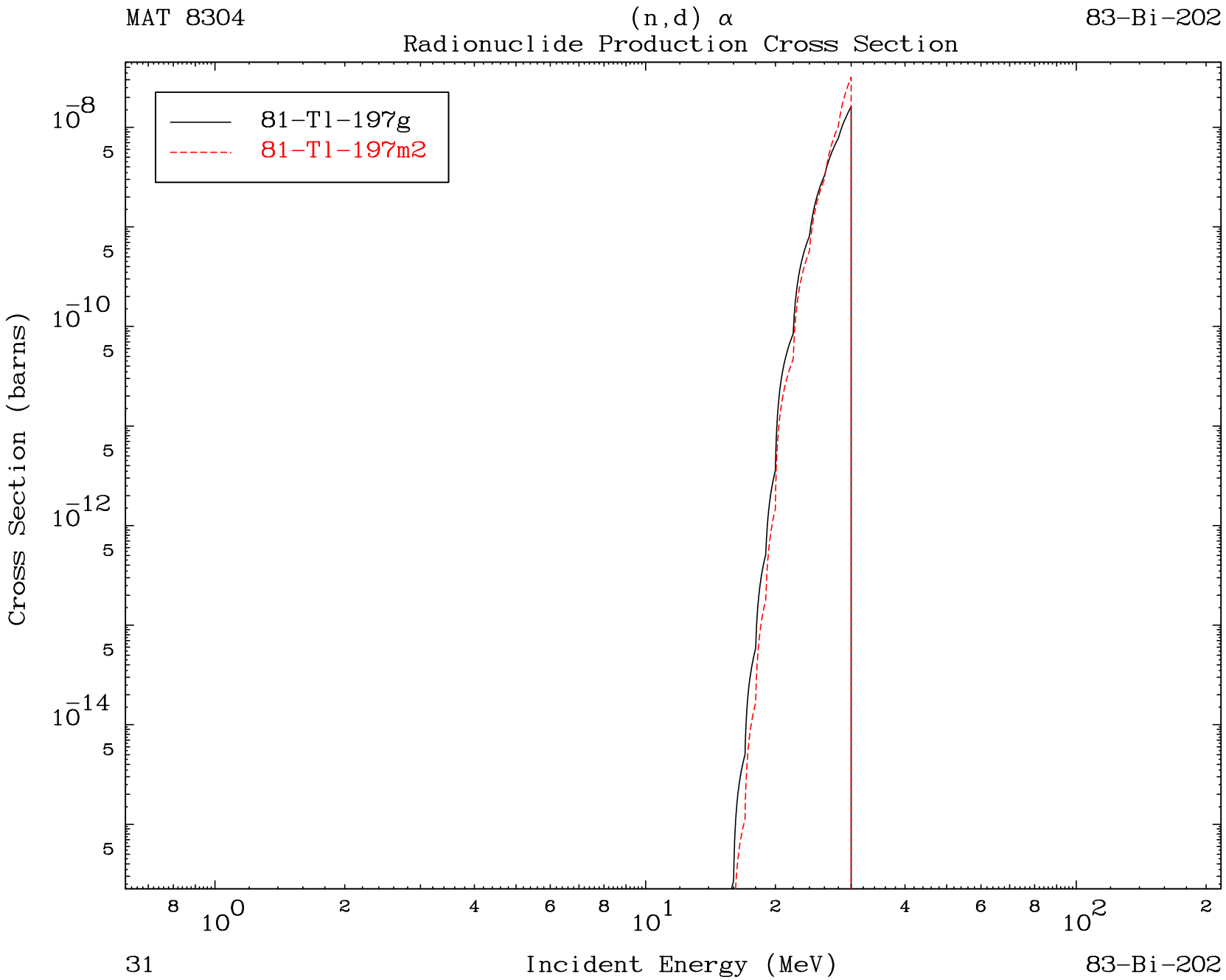

MAT 8304
(n,α)
83-Bi-202
Radionuclide Production Cross Section
82-Pb-199g
82-Pb-199m1
Cross Section (barns)
Incident Energy (MeV)
26
83-Bi-202


MAT 8304
(n,2α)
83-Bi-202
Radionuclide Production Cross Section
80-Hg-195g
80-Hg-195m3
Cross Section (barns)
Incident Energy (MeV)
27
83-Bi-202


MAT 8304
(n,2p)
83-Bi-202
Radionuclide Production Cross Section
82-Pb-201g
82-Pb-201m4
Cross Section (barns)
Incident Energy (MeV)
28
83-Bi-202


MAT 8304
(n,p) α
83-Bi-202
Radionuclide Production Cross Section
81-Tl-198g
81-Tl-198m7
Cross Section (barns)
Incident Energy (MeV)
29
83-Bi-202


MAT 8304
(n,p) t
83-Bi-202
Radionuclide Production Cross Section
82-Pb-199g
82-Pb-199m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
30
Incident Energy (MeV)
83-Bi-202


MAT 8304
(n,d) α
83-Bi-202
Radionuclide Production Cross Section
81-Tl-197g
81-Tl-197m2
Cross Section (barns)
Incident Energy (MeV)
31
83-Bi-202