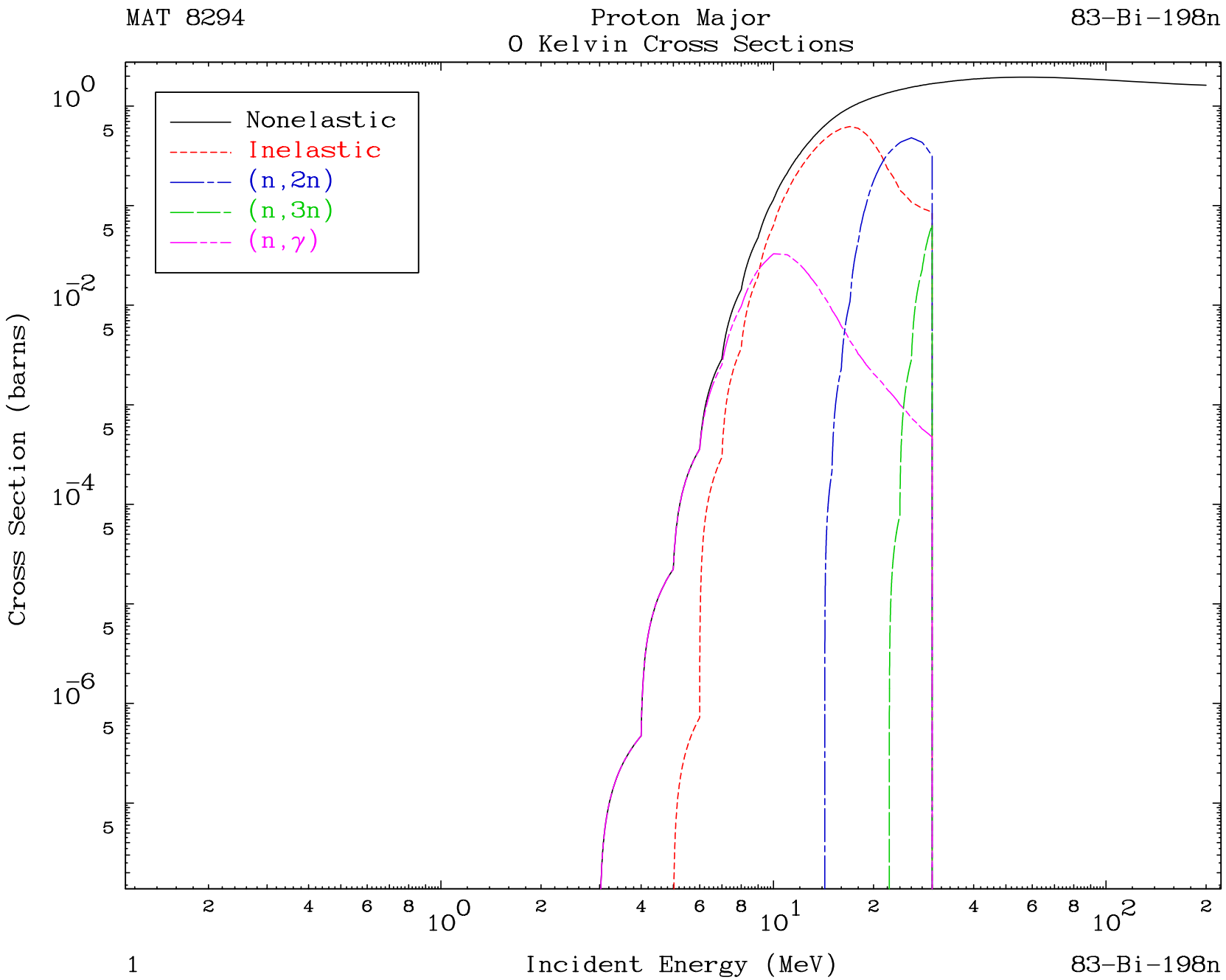
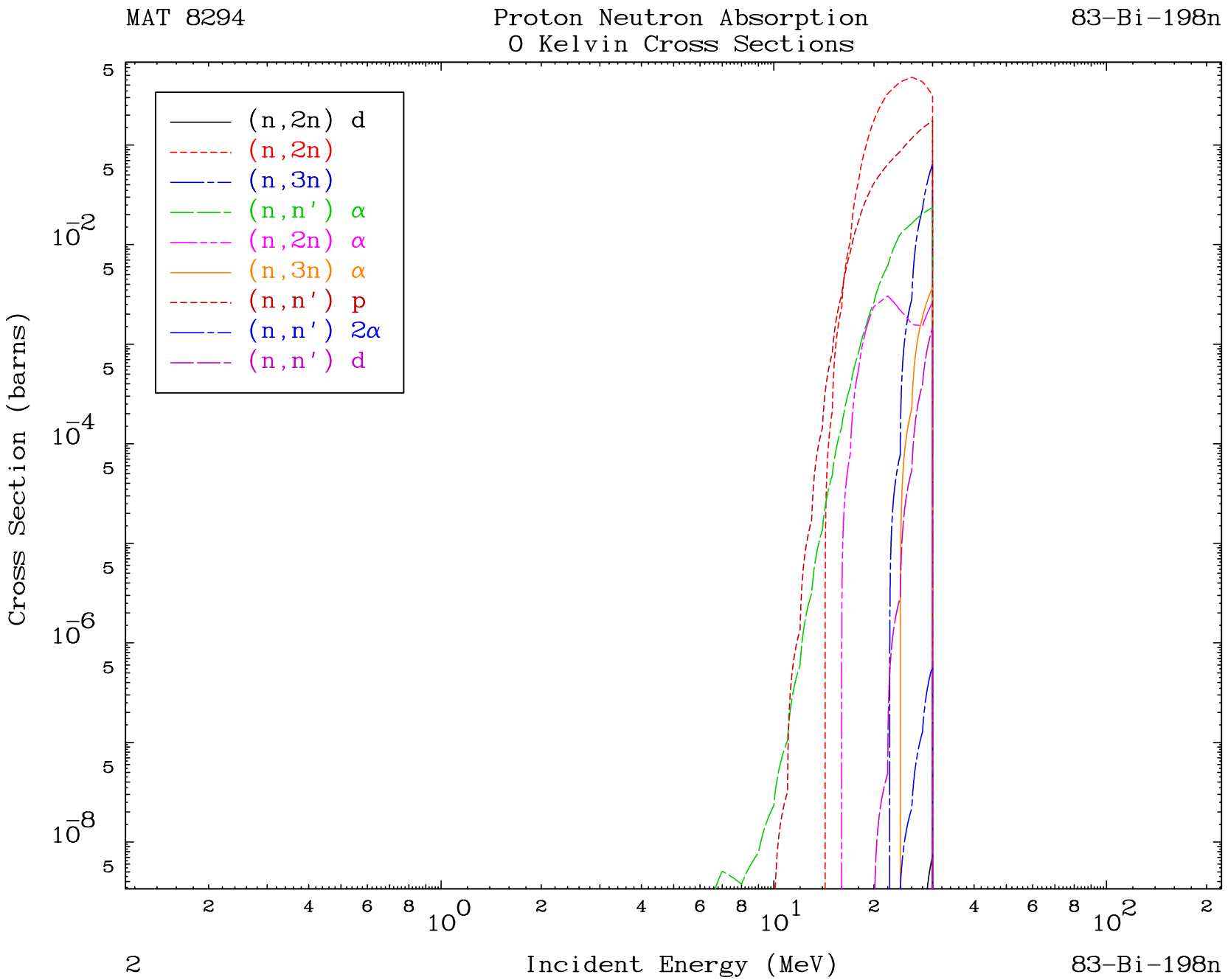
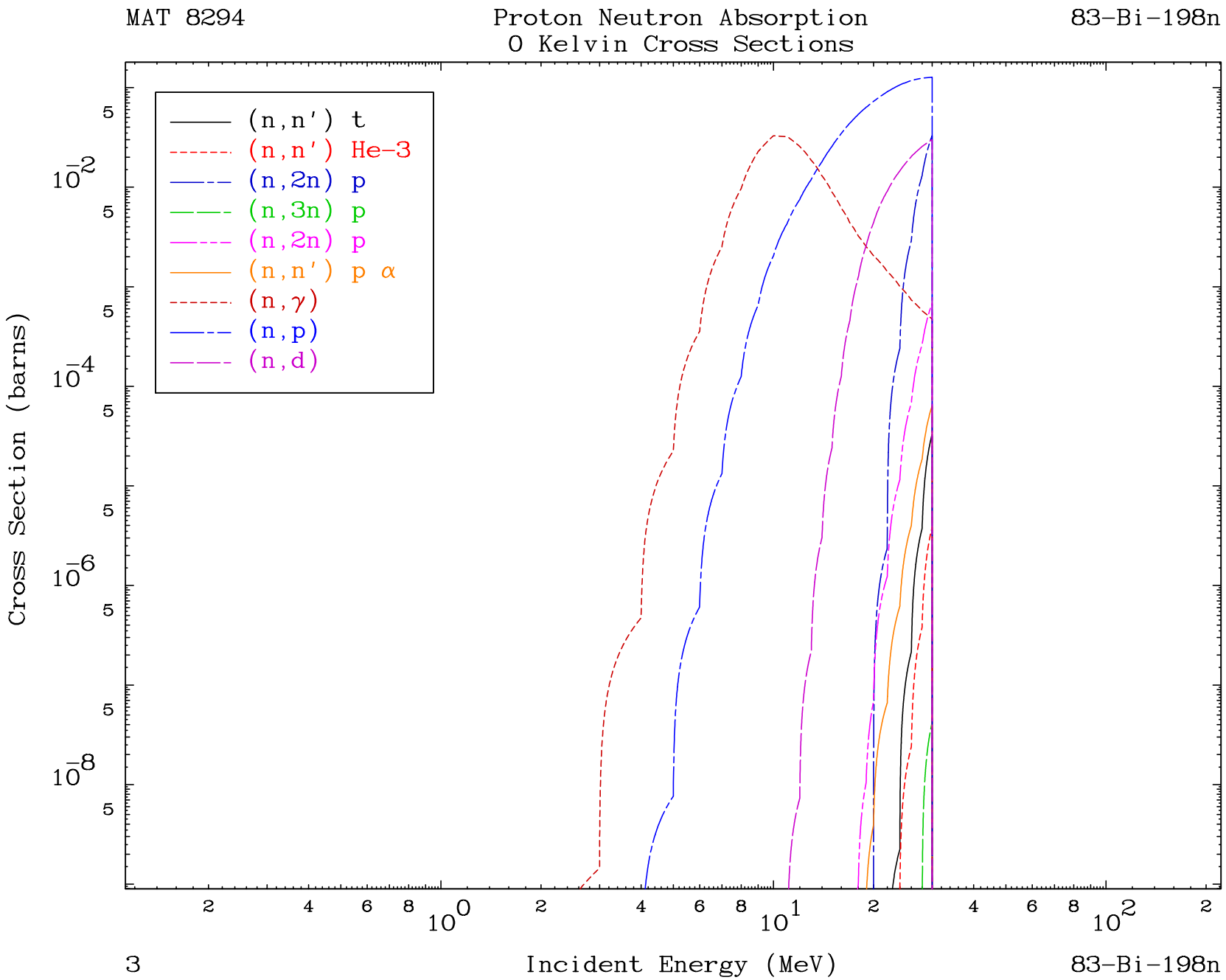
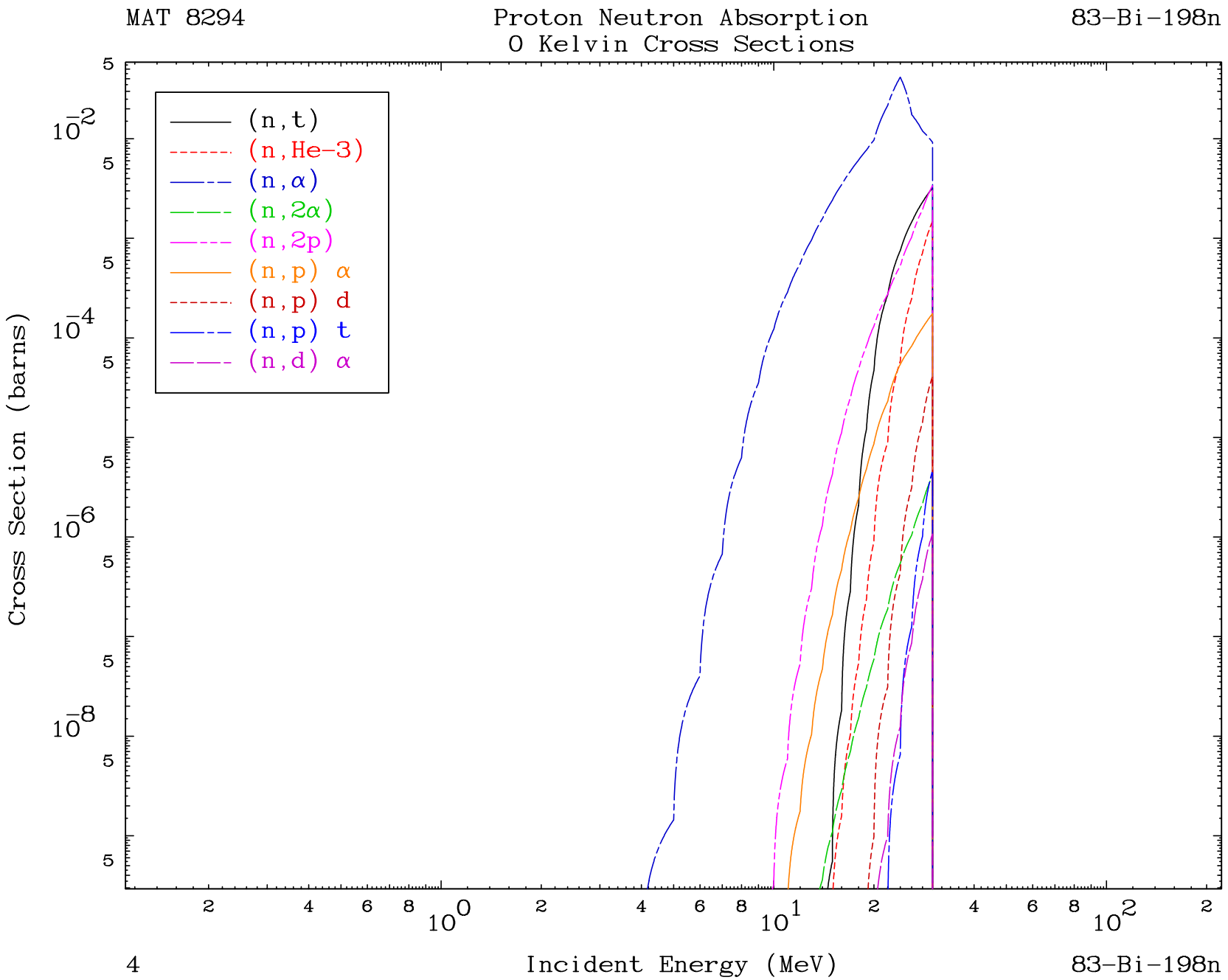
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

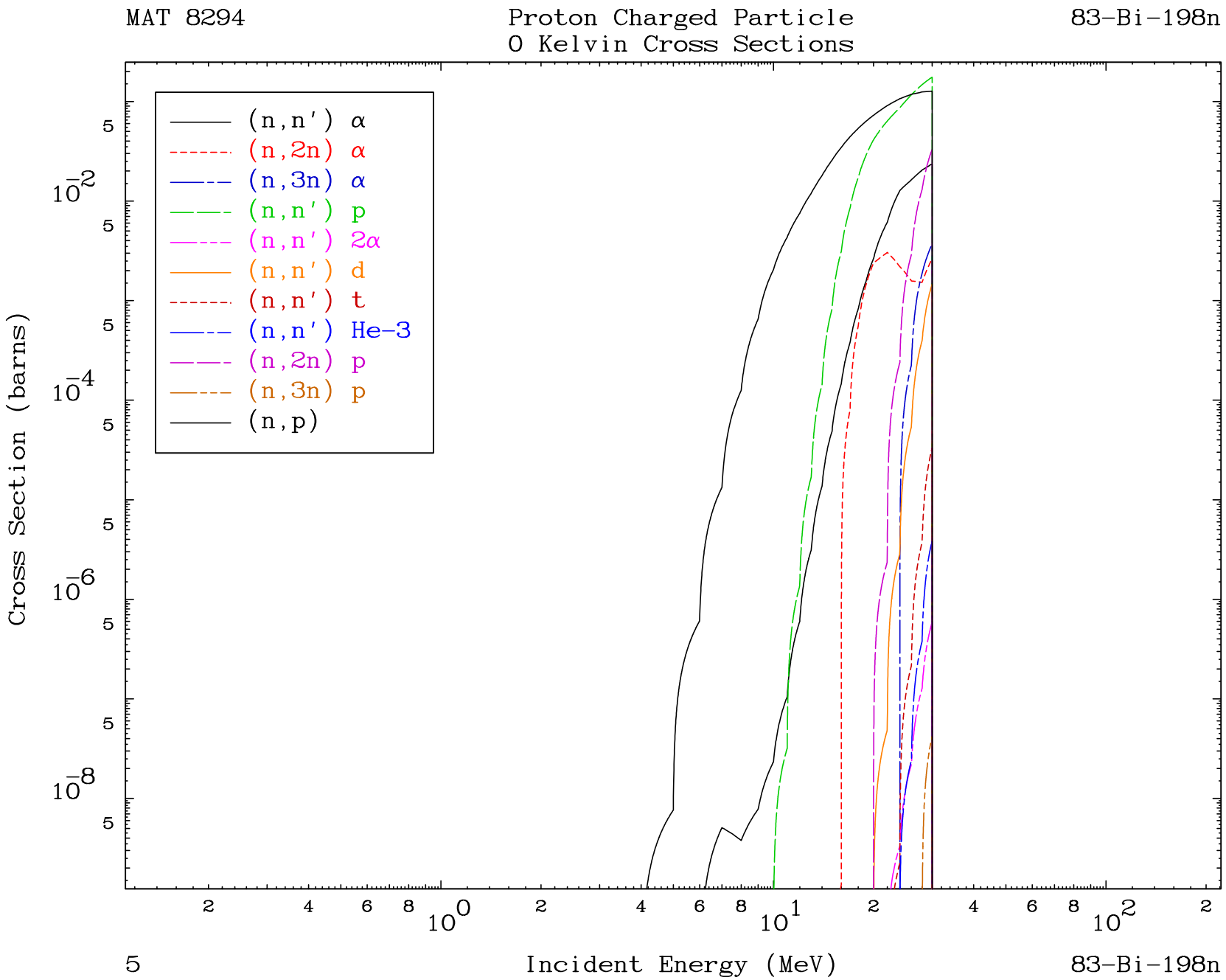
Press Mouse Button to Start

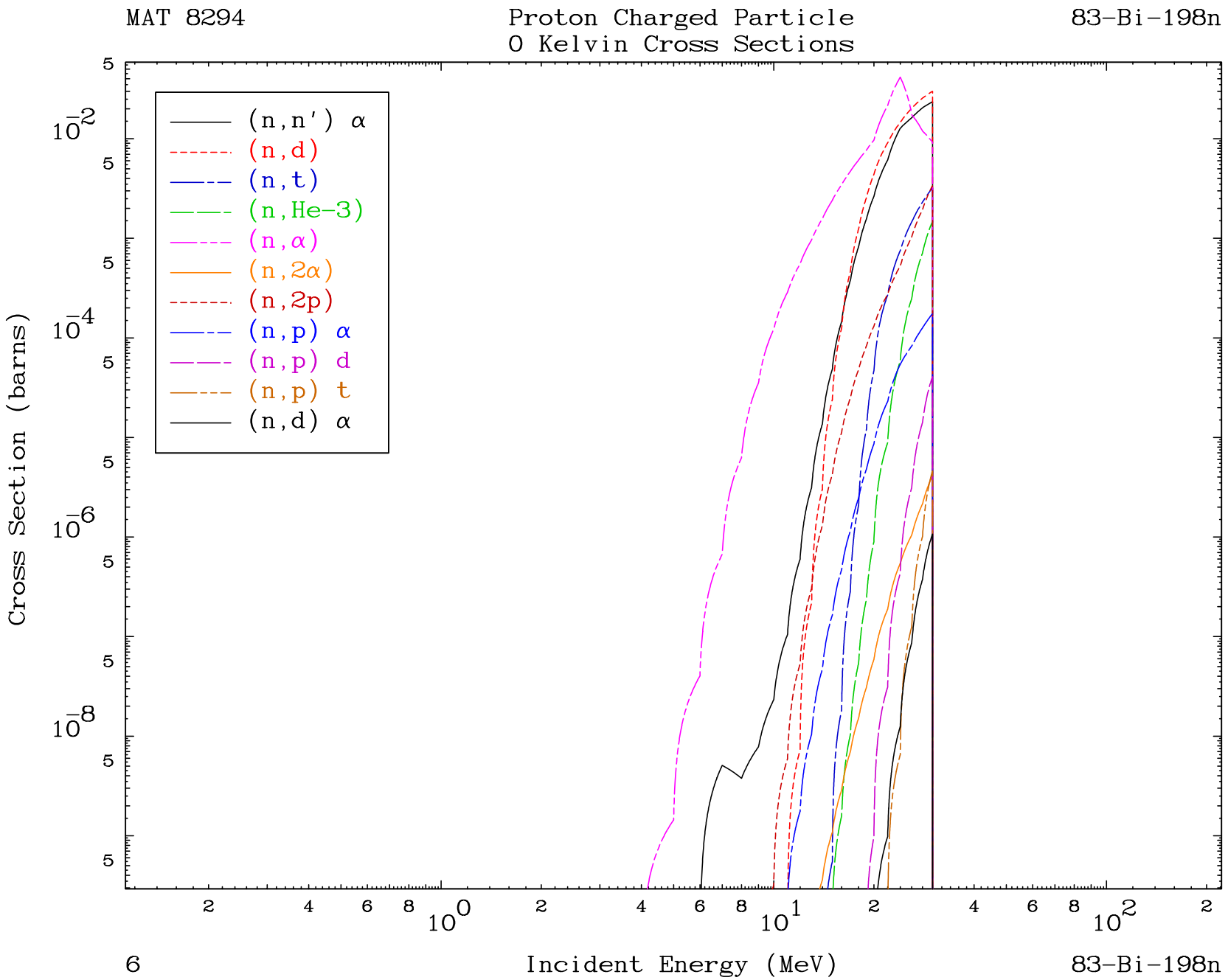

MAT 8294
Proton Major
83-Bi-198n
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n
1

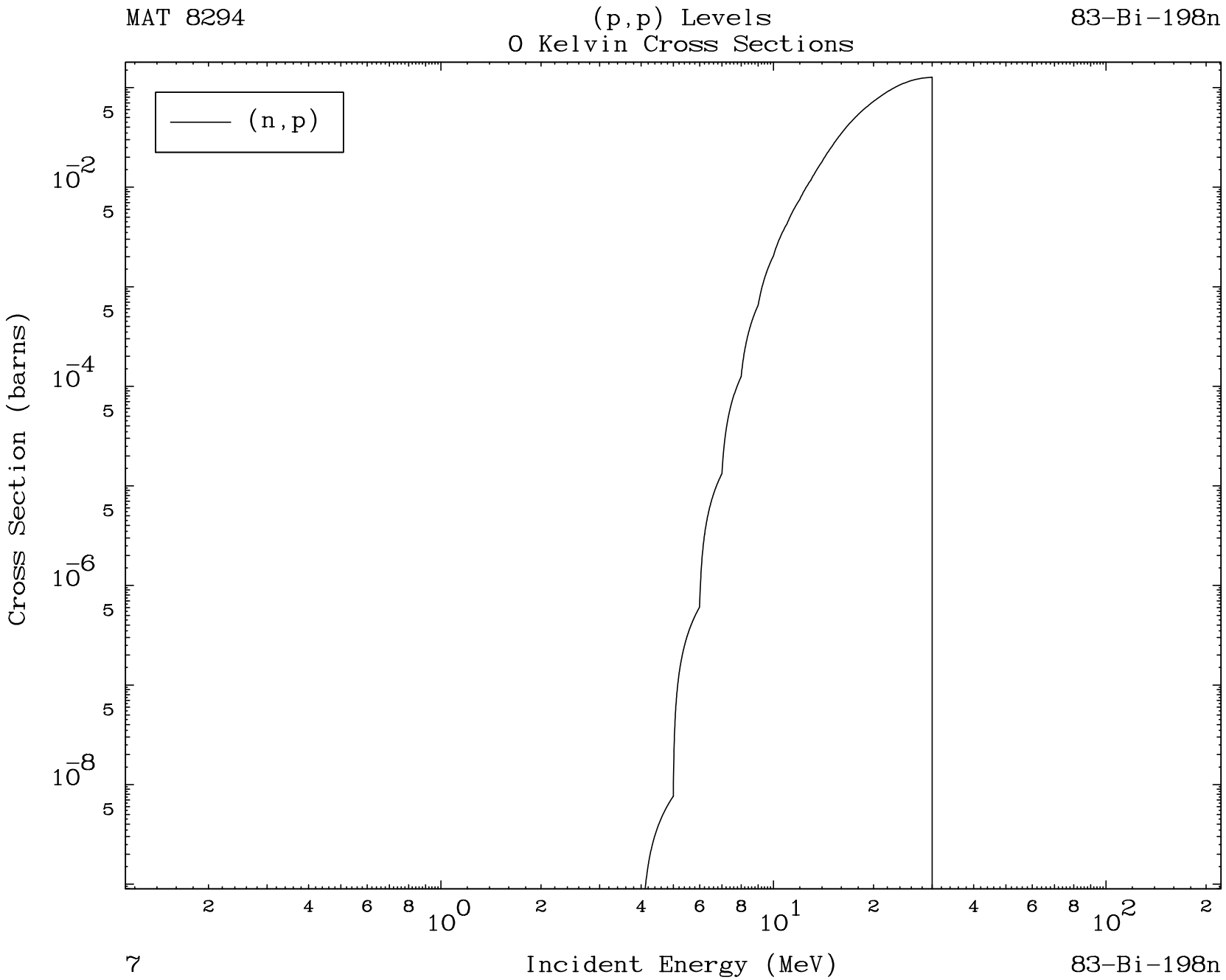

MAT 8294
Proton Neutron Absorption
0 Kelvin Cross Sections
83-Bi-198n
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n
2

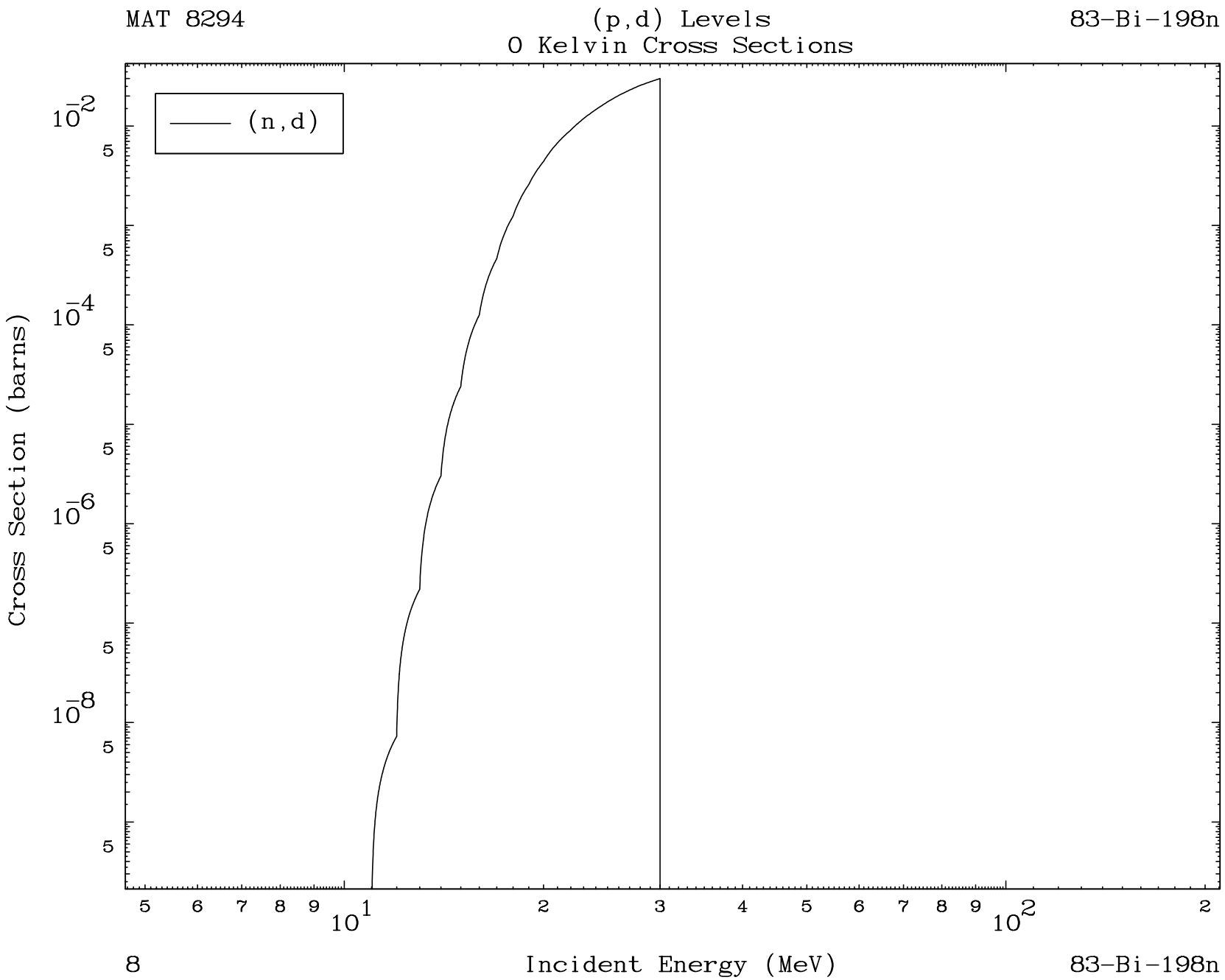

MAT 8294
Proton Neutron Absorption
0 Kelvin Cross Sections
83-Bi-198n
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
3
83-Bi-198n

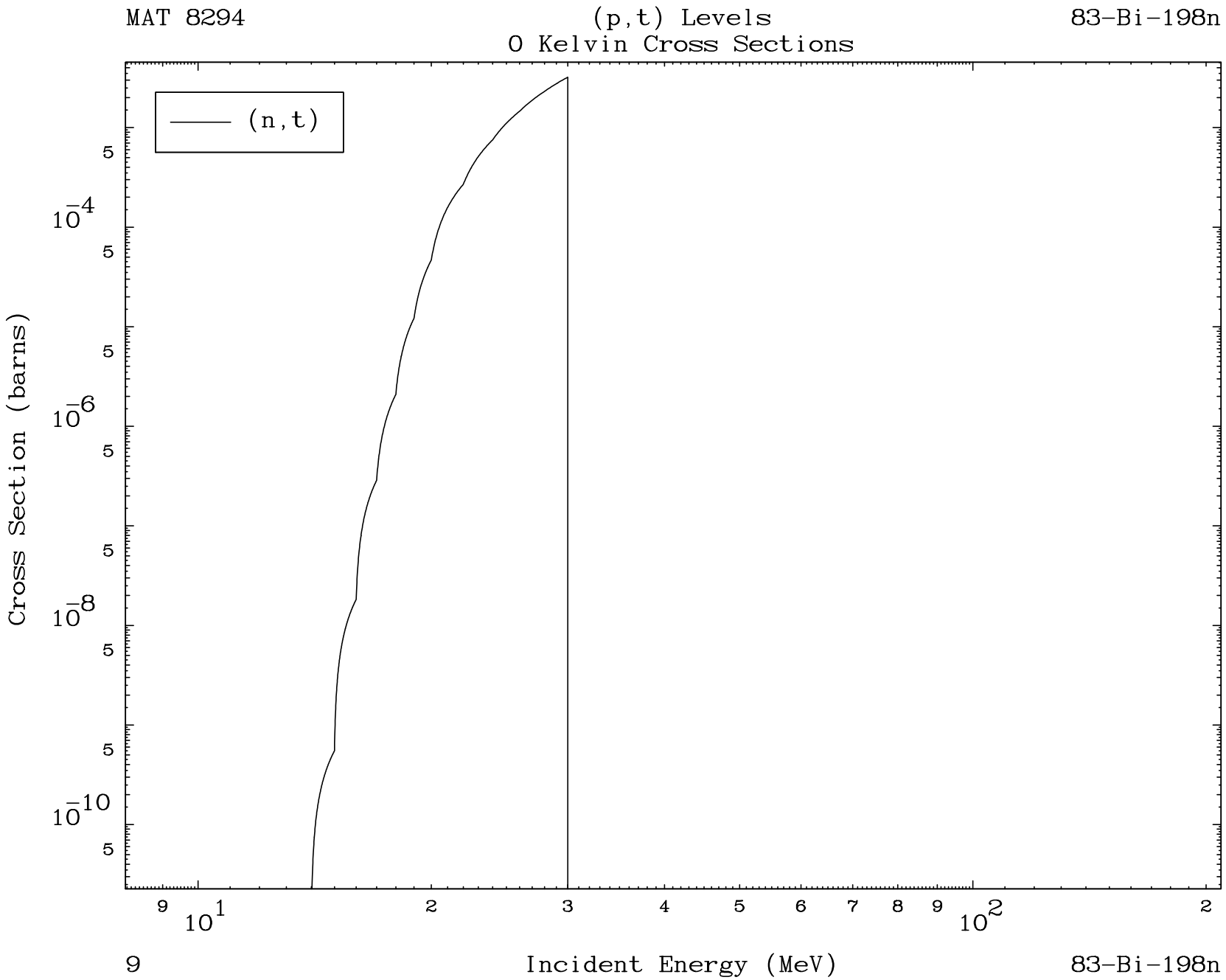

MAT 8294
Proton Neutron Absorption
0 Kelvin Cross Sections
83-Bi-198n
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n
4

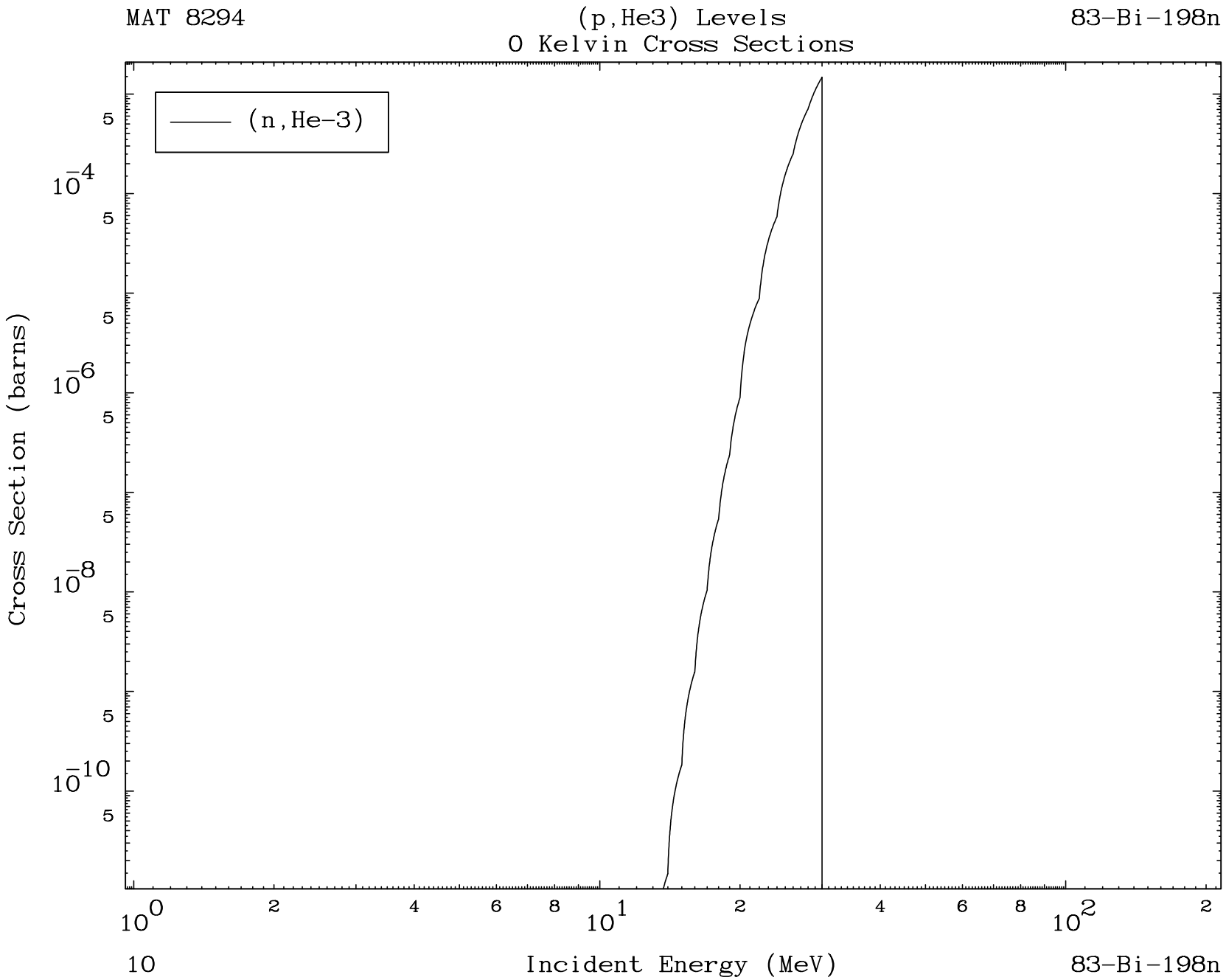

MAT 8294
Proton Charged Particle
0 Kelvin Cross Sections
83-Bi-198n
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n

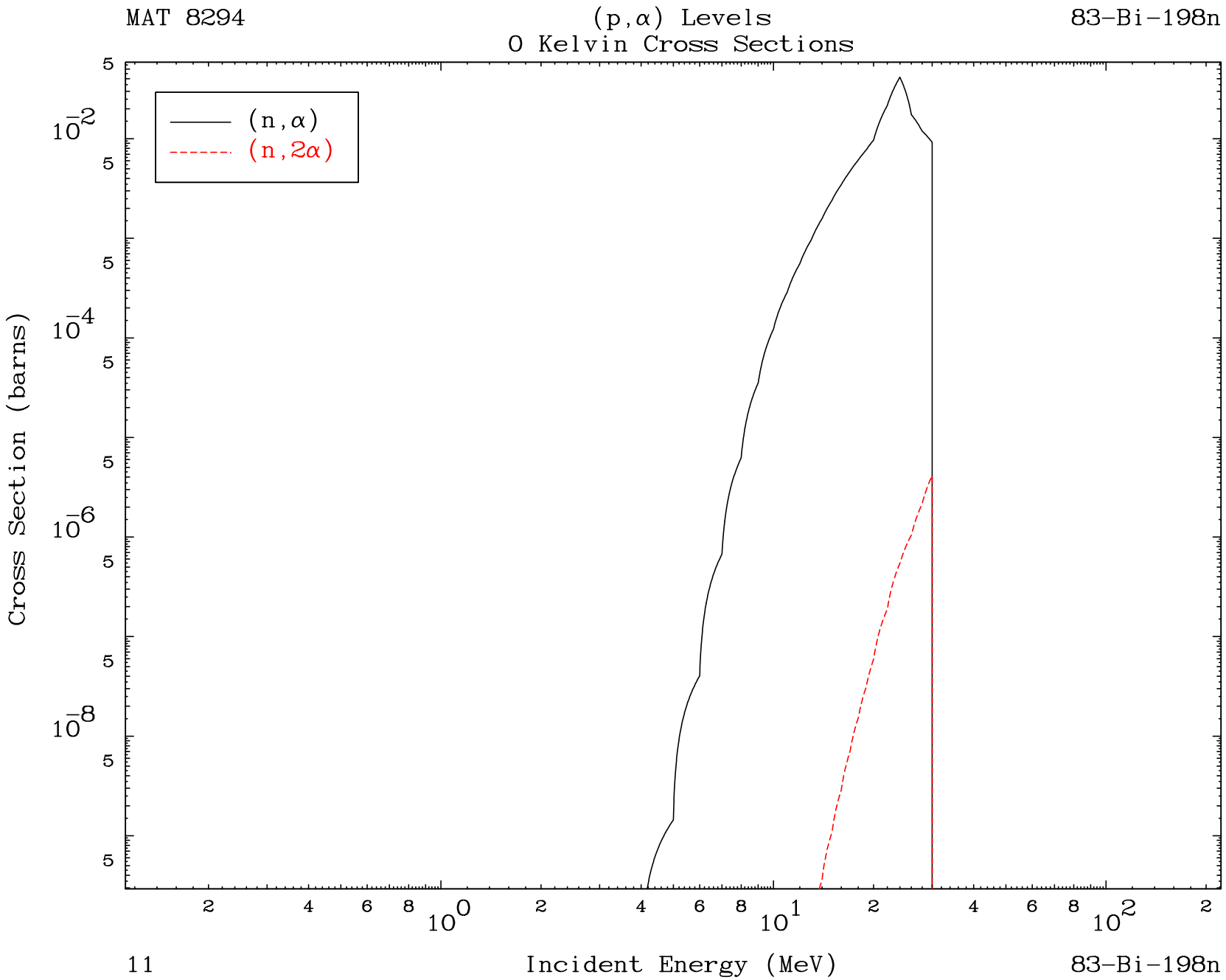

MAT 8294
Proton Charged Particle
0 Kelvin Cross Sections
83-Bi-198n
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
83-Bi-198n

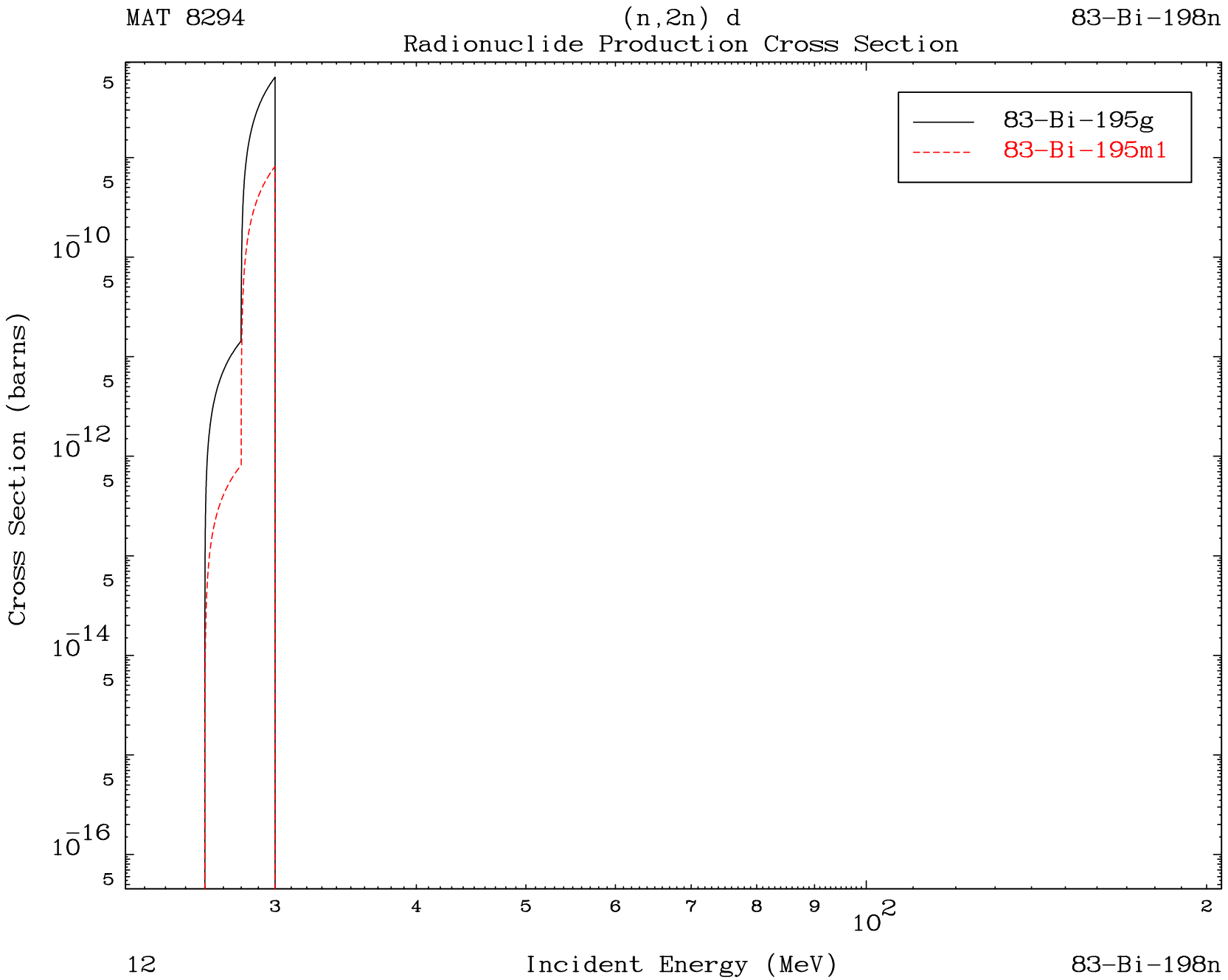

MAT 8294
(p,p) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
83-Bi-198n

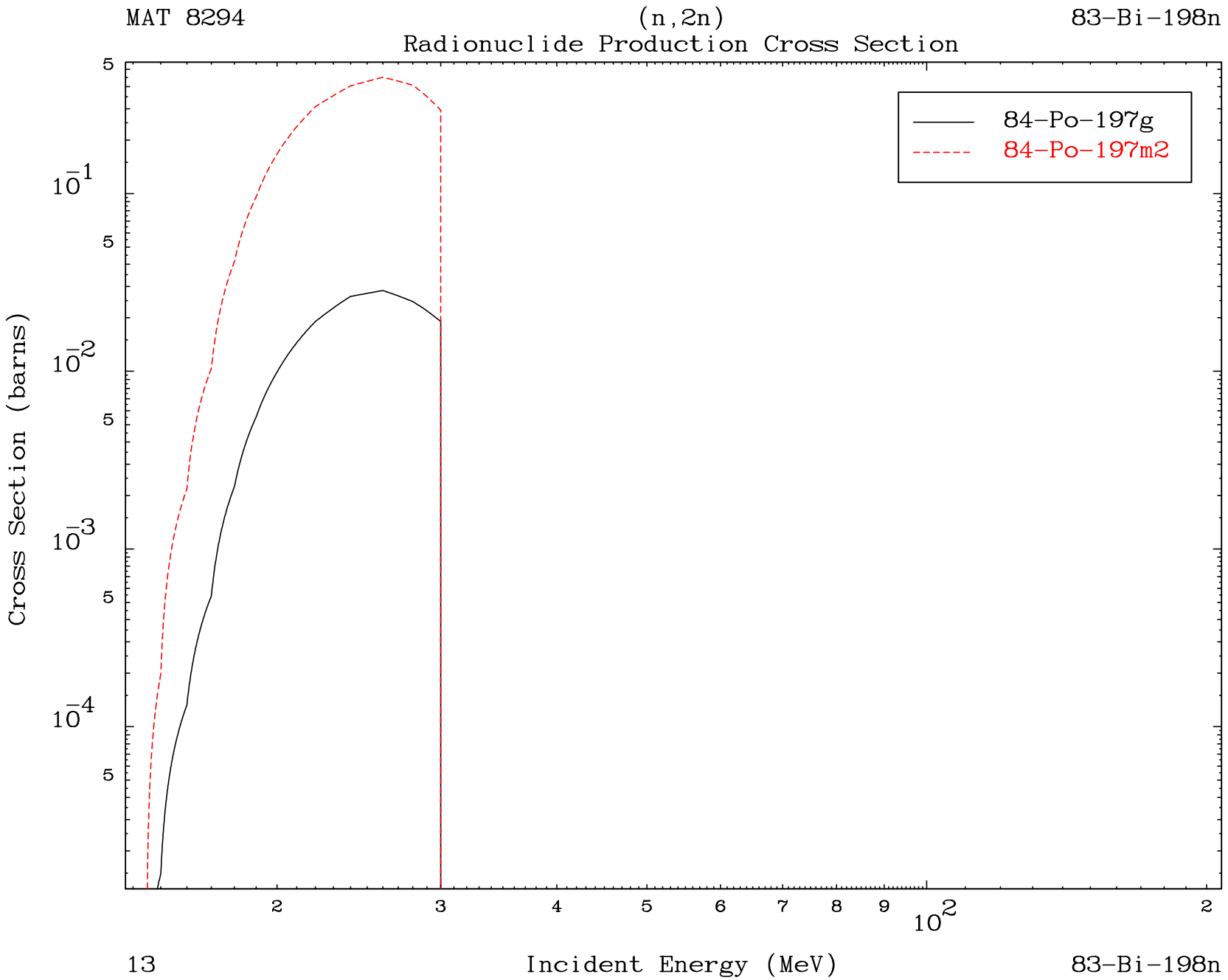

MAT 8294
(p,d) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
5
5
5
5
5
5
5
5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
8
83-Bi-198n

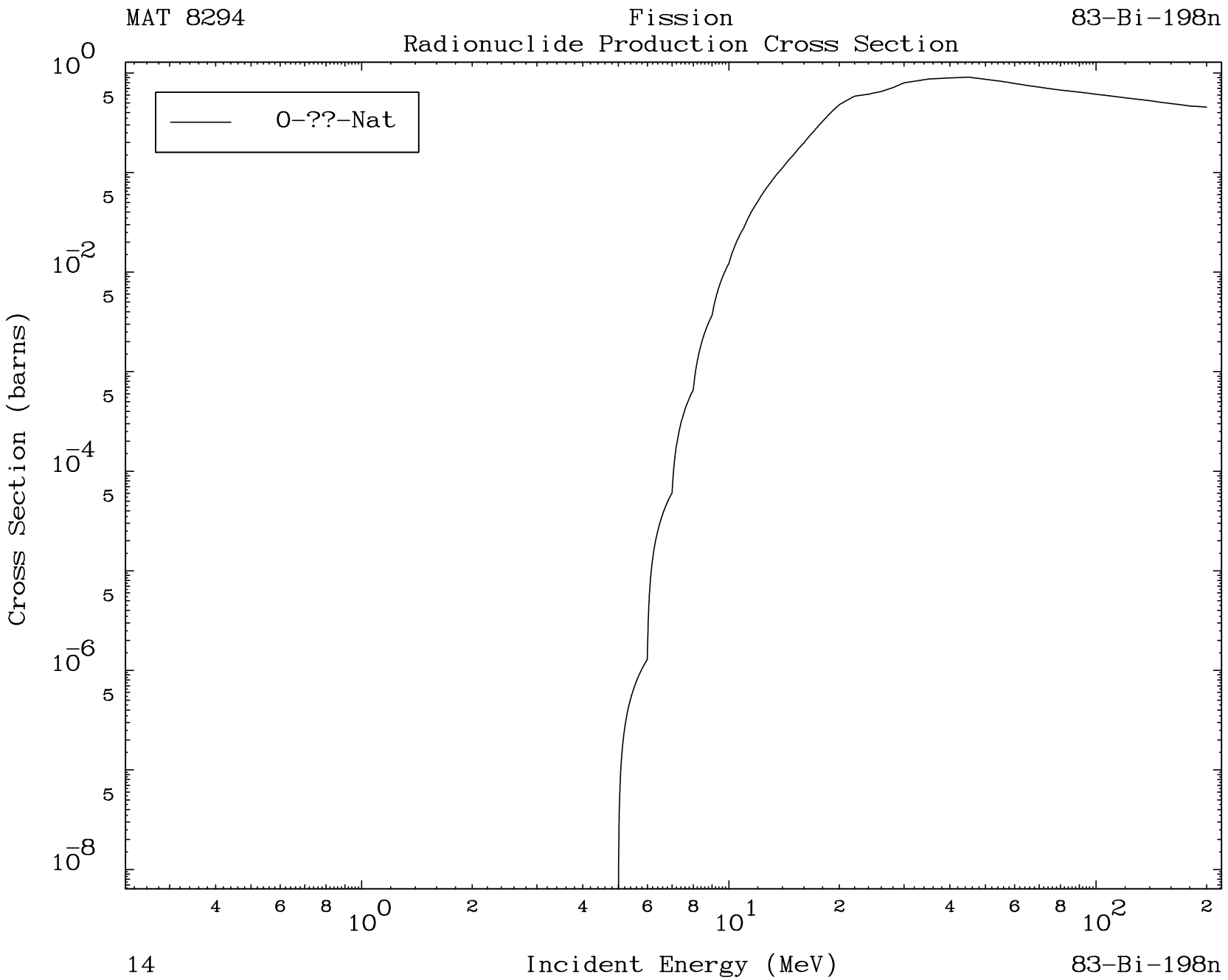

MAT 8294
(p,t) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
83-Bi-198n

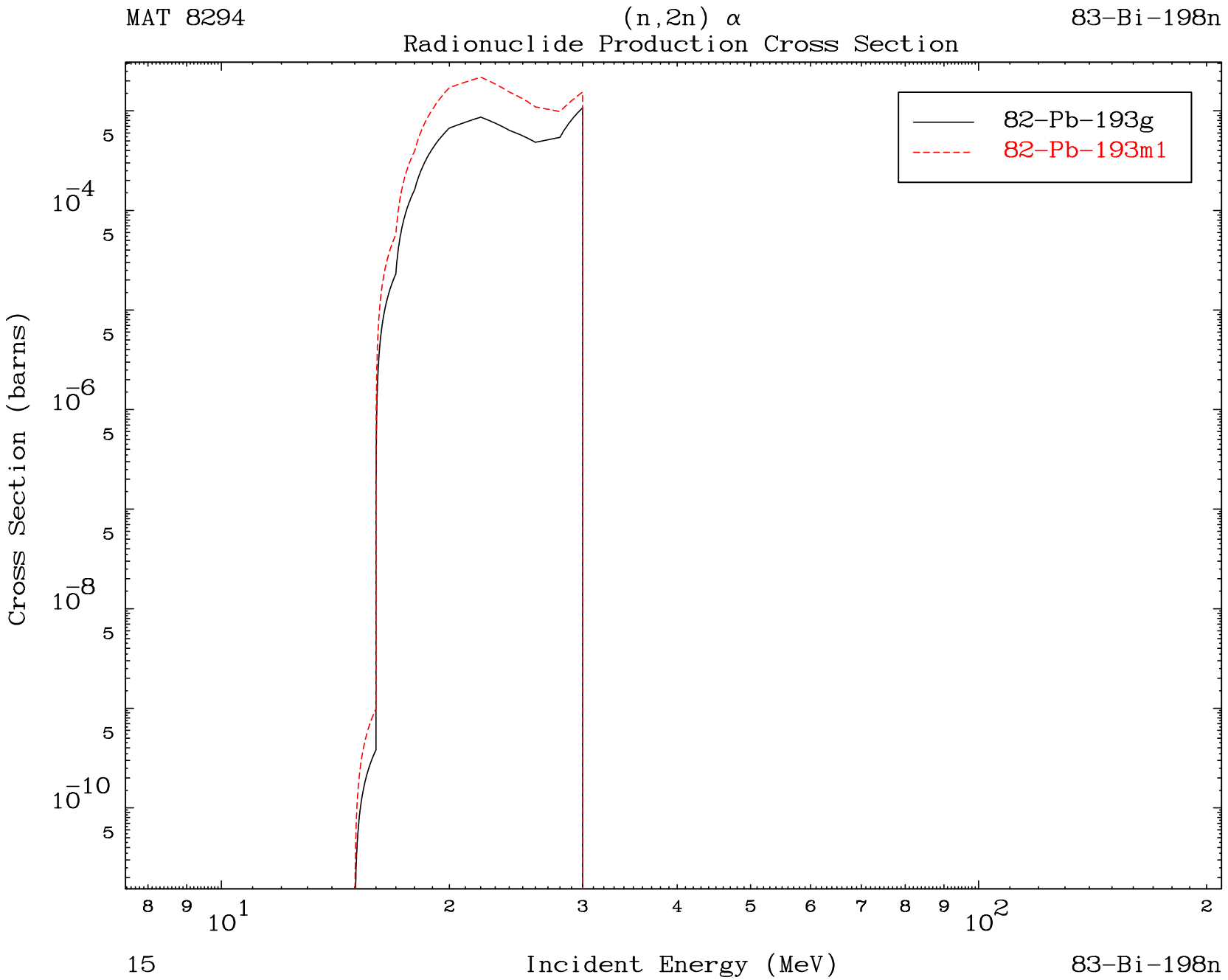

MAT 8294
(p,He3) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n

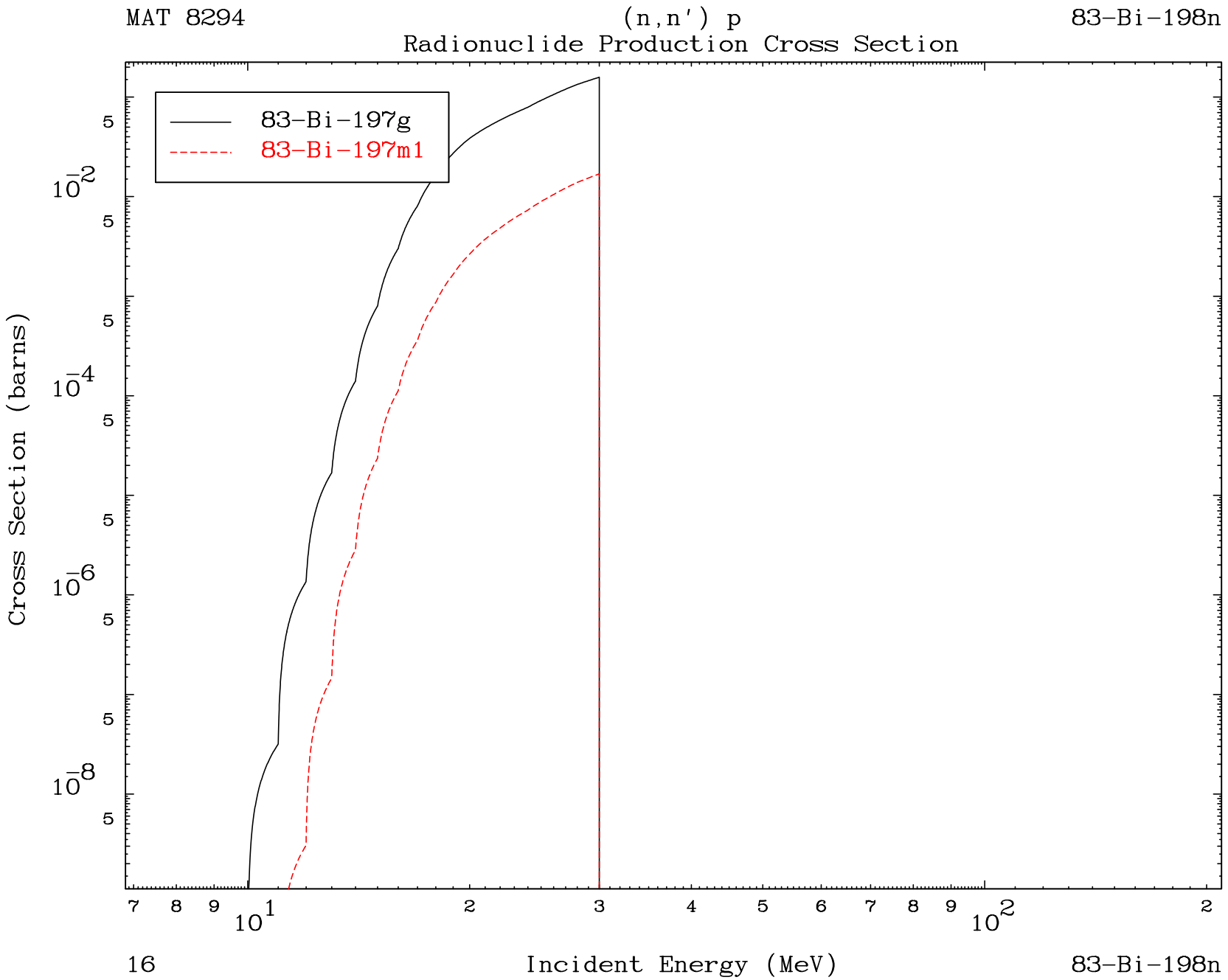

MAT 8294
(p,α) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
11
83-Bi-198n

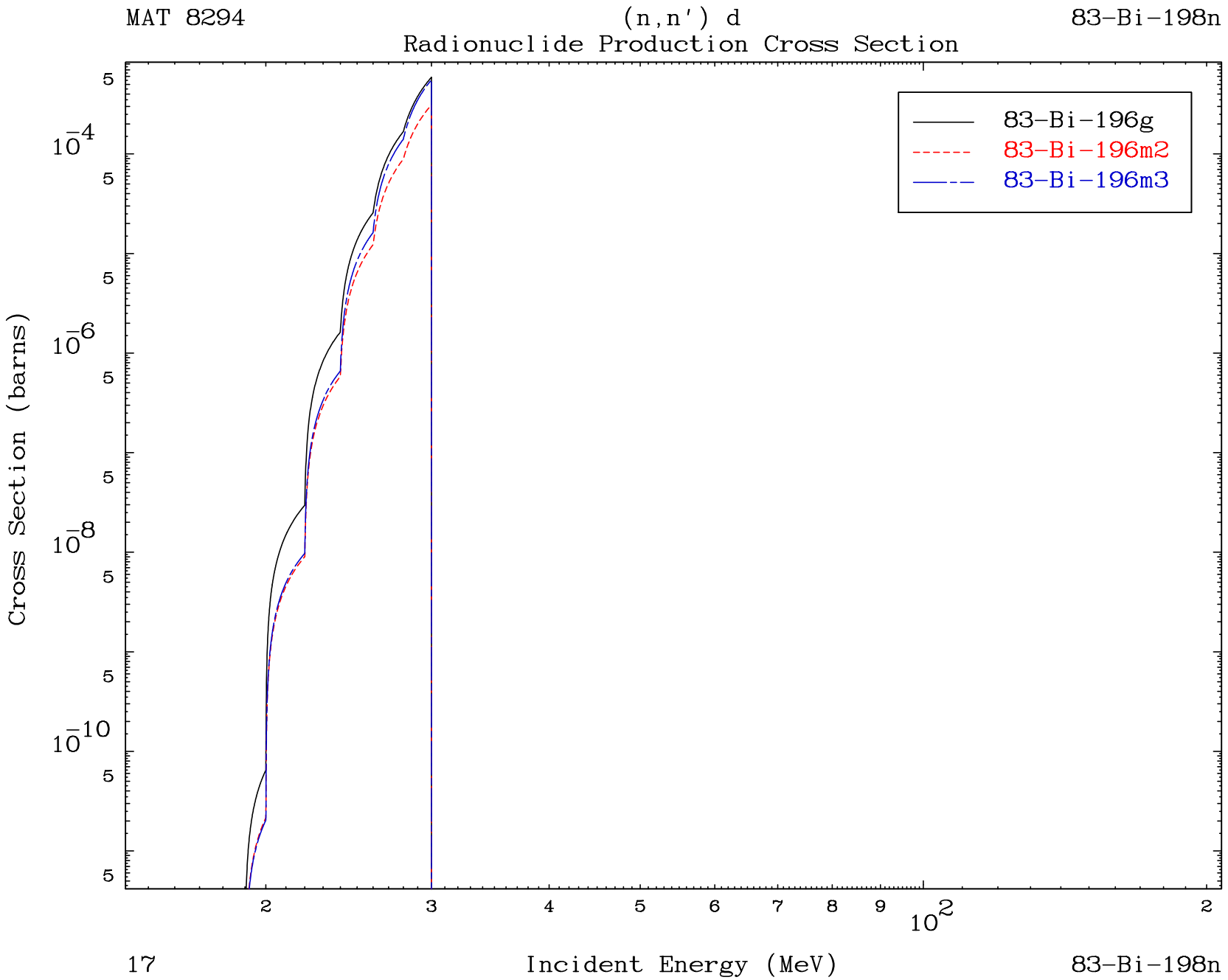

MAT 8294
(n,2n) d
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10-10
10-12
10-14
10-16
5
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
83-Bi-198n

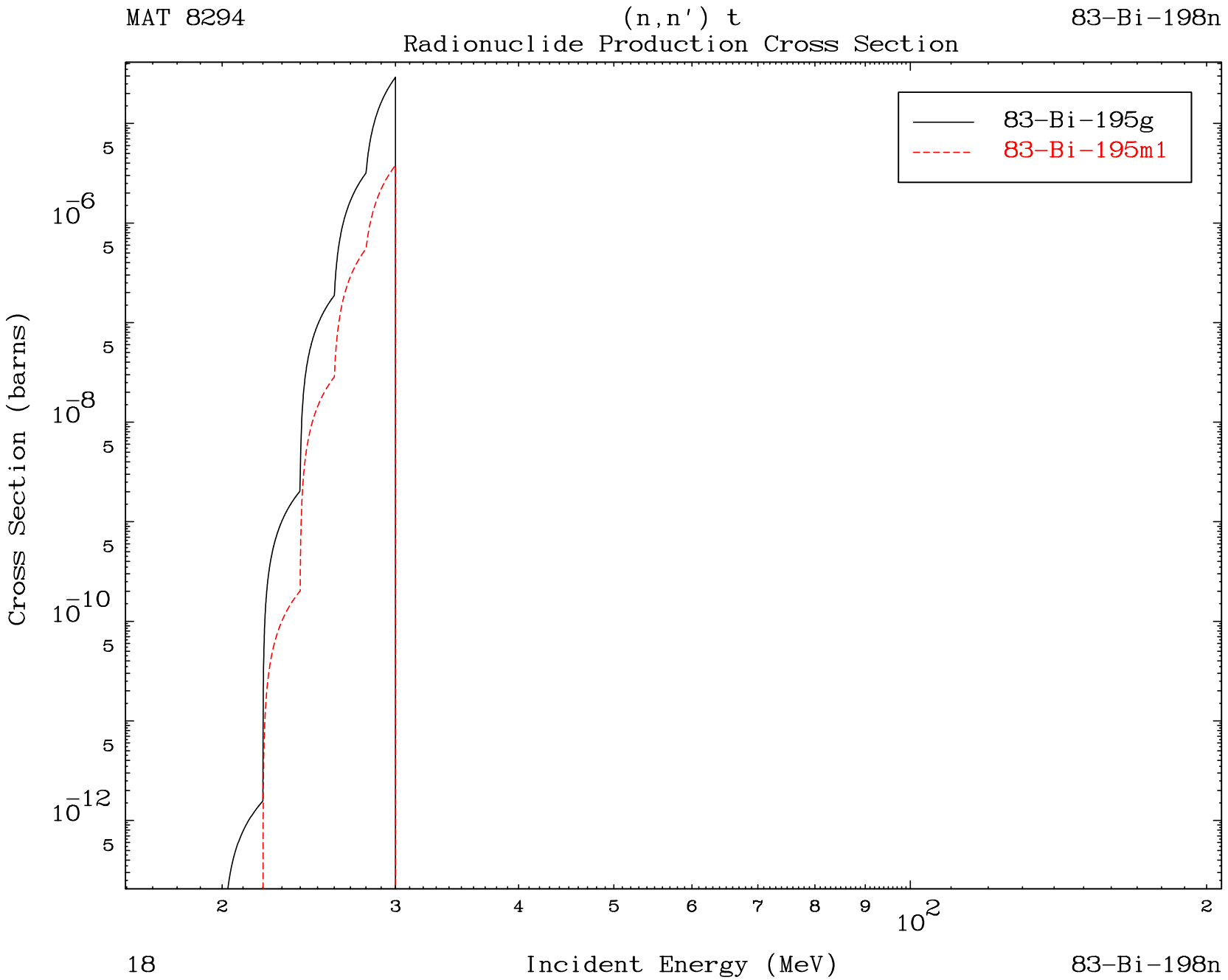

MAT 8294
(n,2n)
83-Bi-198n
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
Incident Energy (MeV)
13
83-Bi-198n

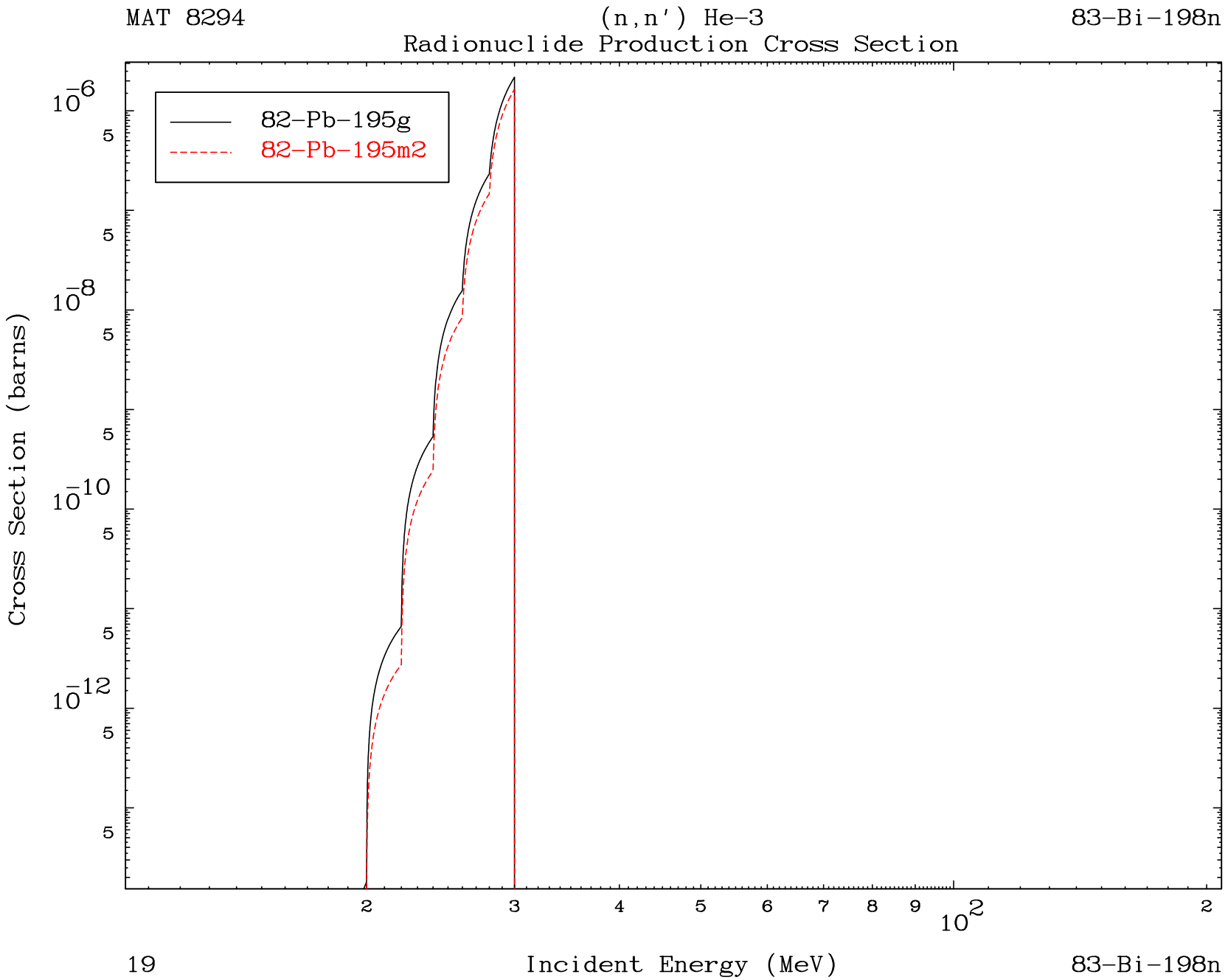

MAT 8294
Fission
83-Bi-198n
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
14
83-Bi-198n

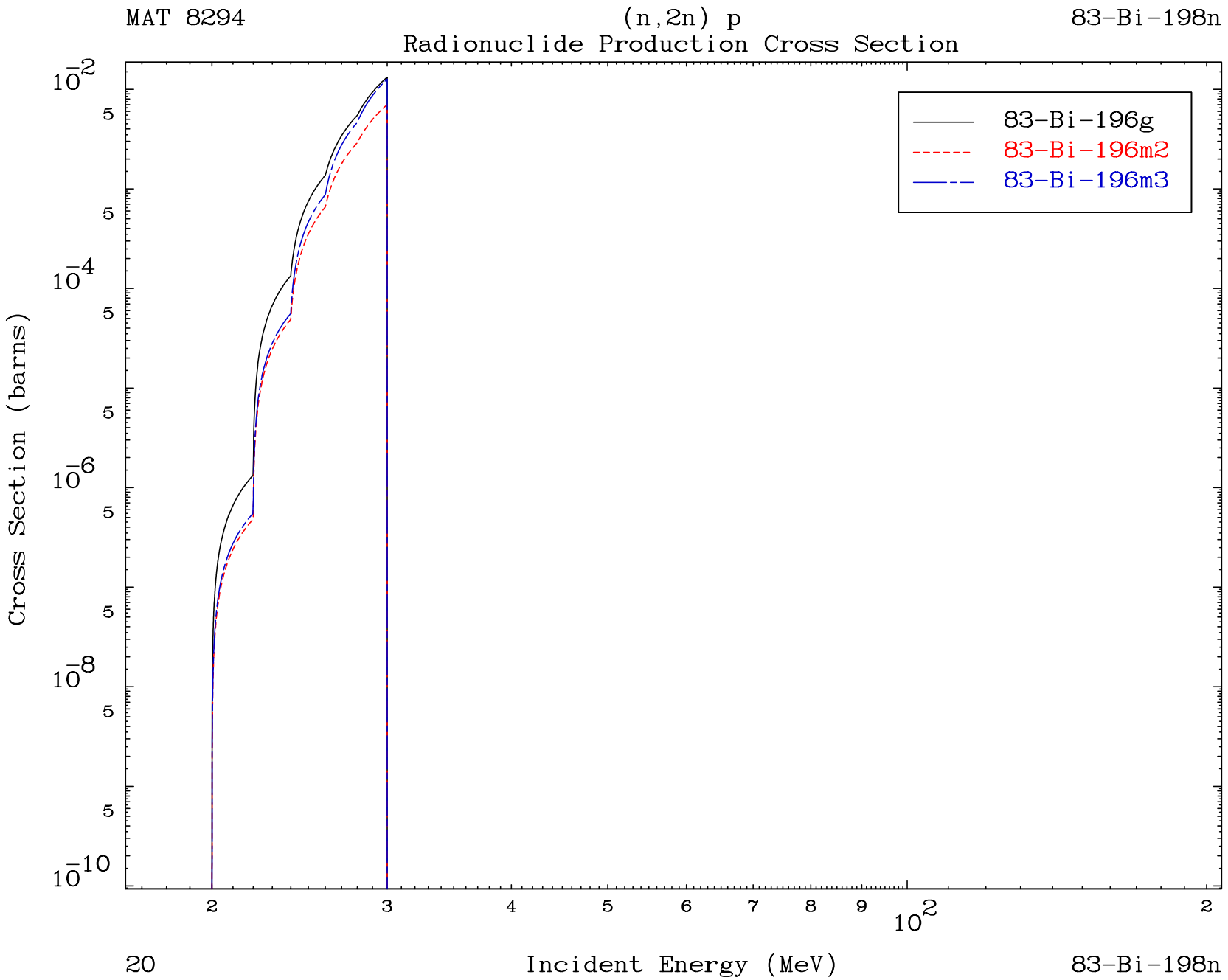

MAT 8294
(n,2n) α
83-Bi-198n
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
15
83-Bi-198n

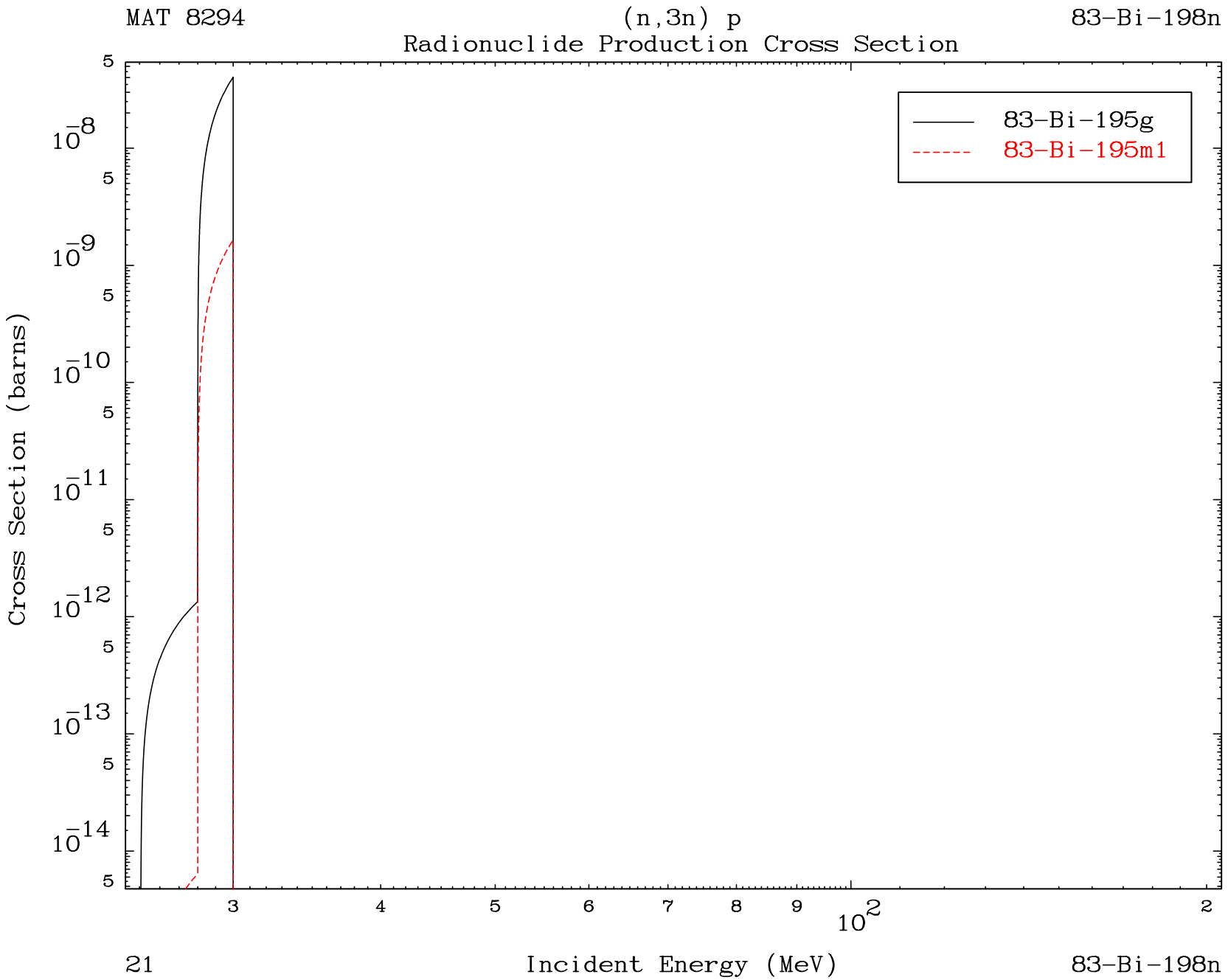

MAT 8294
(n,n') p
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
16
83-Bi-198n

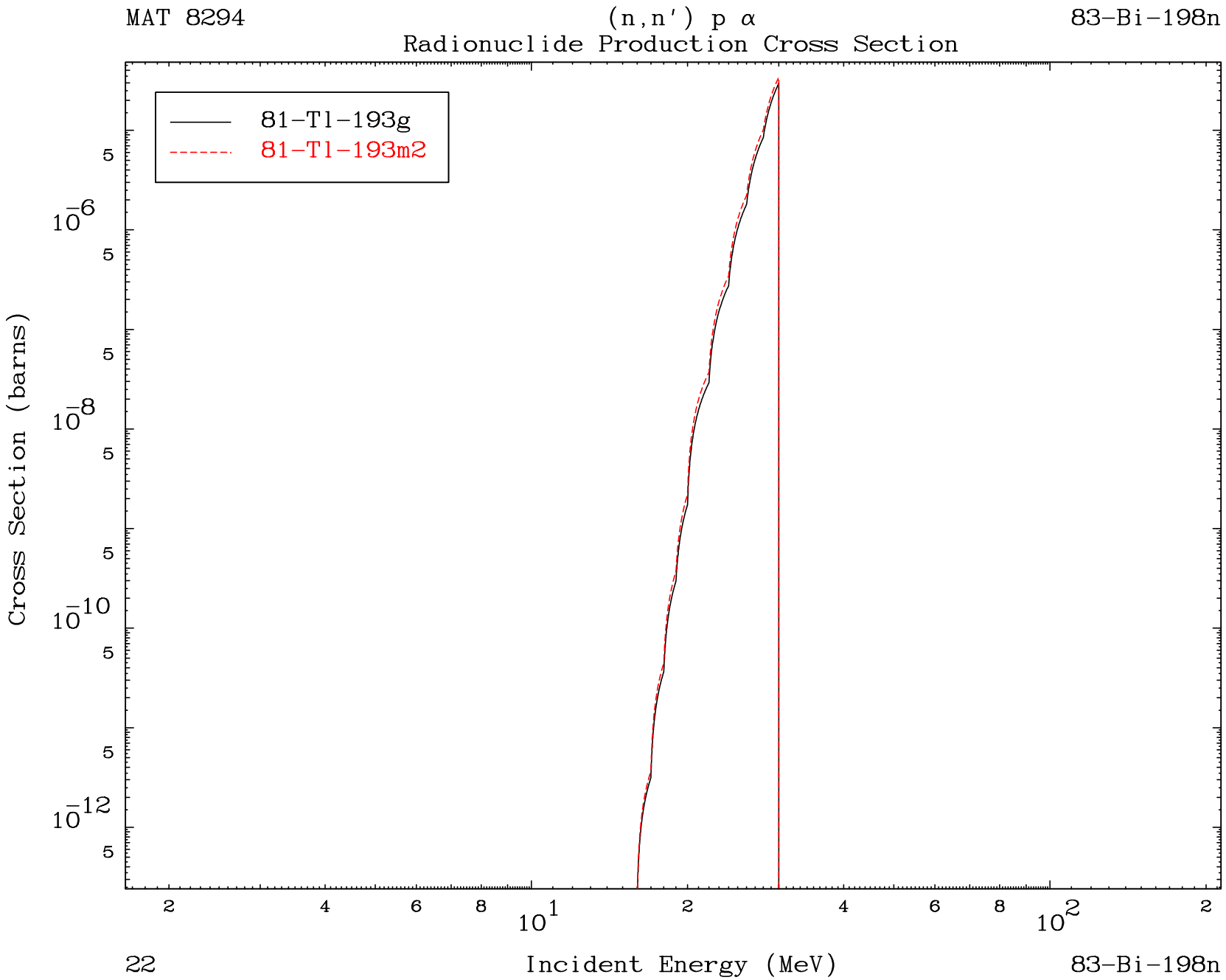

MAT 8294
(n,n') d
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
6
7
8
9
10 2
Incident Energy (MeV)
17
83-Bi-198n

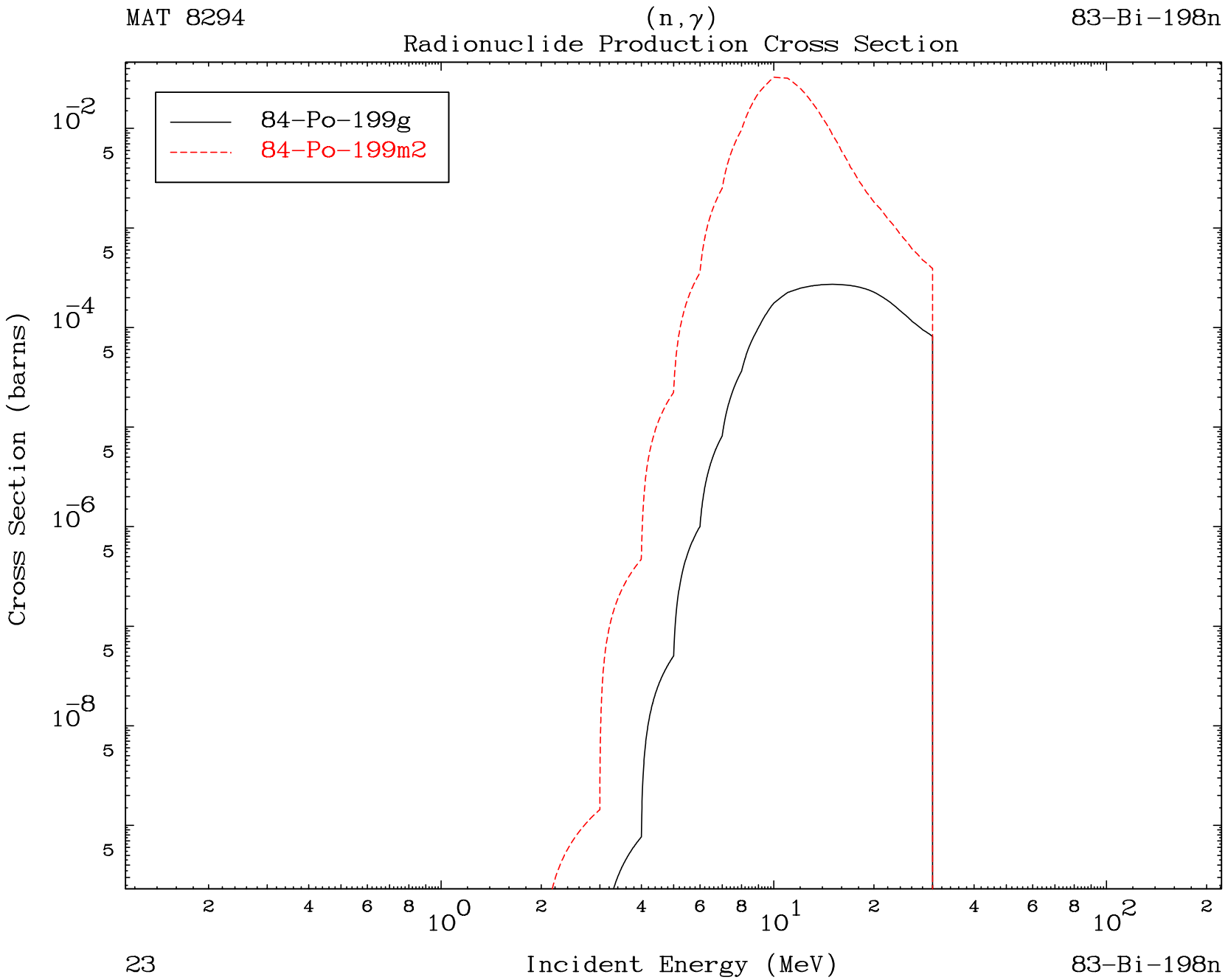

MAT 8294
(n,n') t
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
18
Incident Energy (MeV)
83-Bi-198n

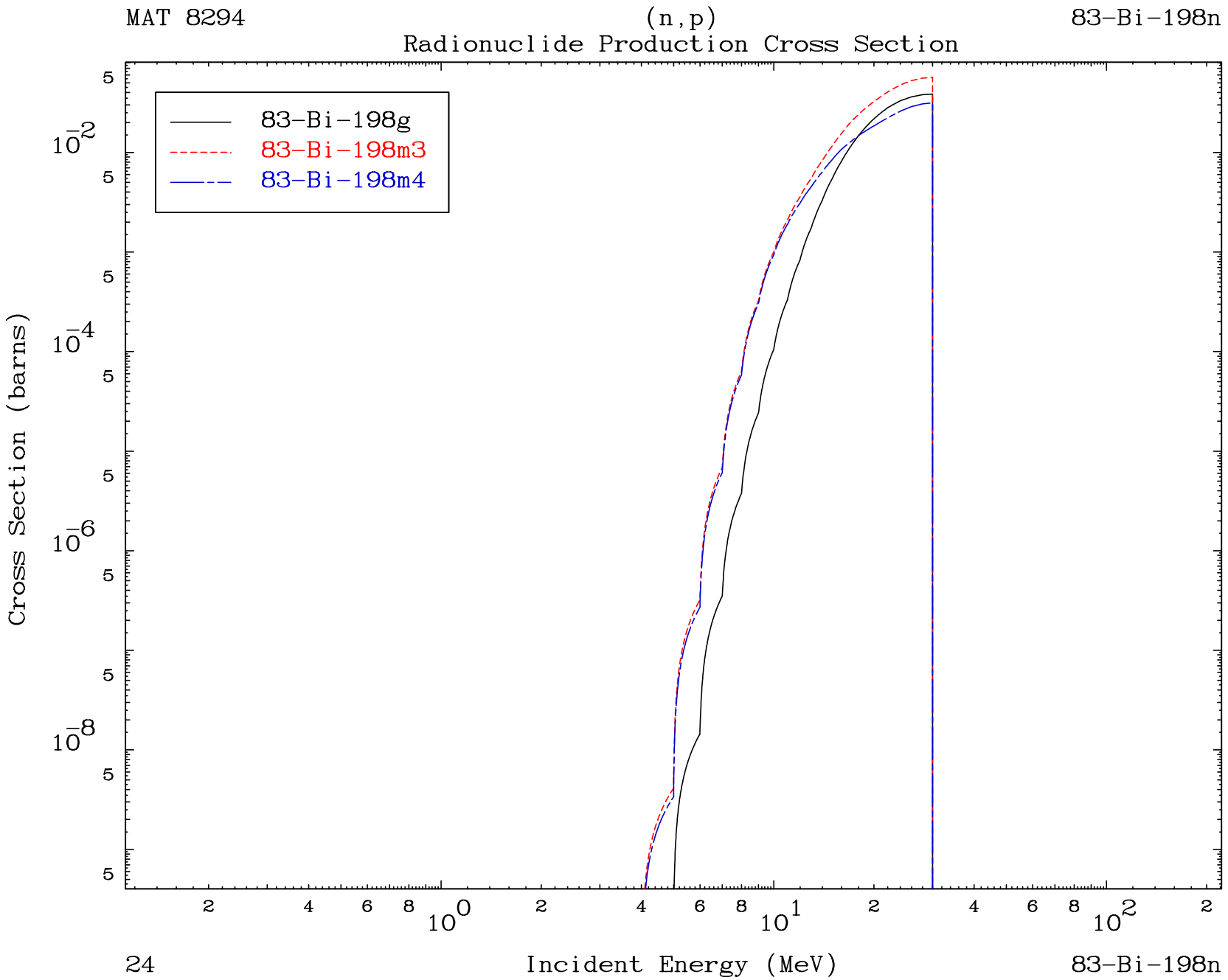

MAT 8294
(n,n') He-3
83-Bi-198n
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
83-Bi-198n

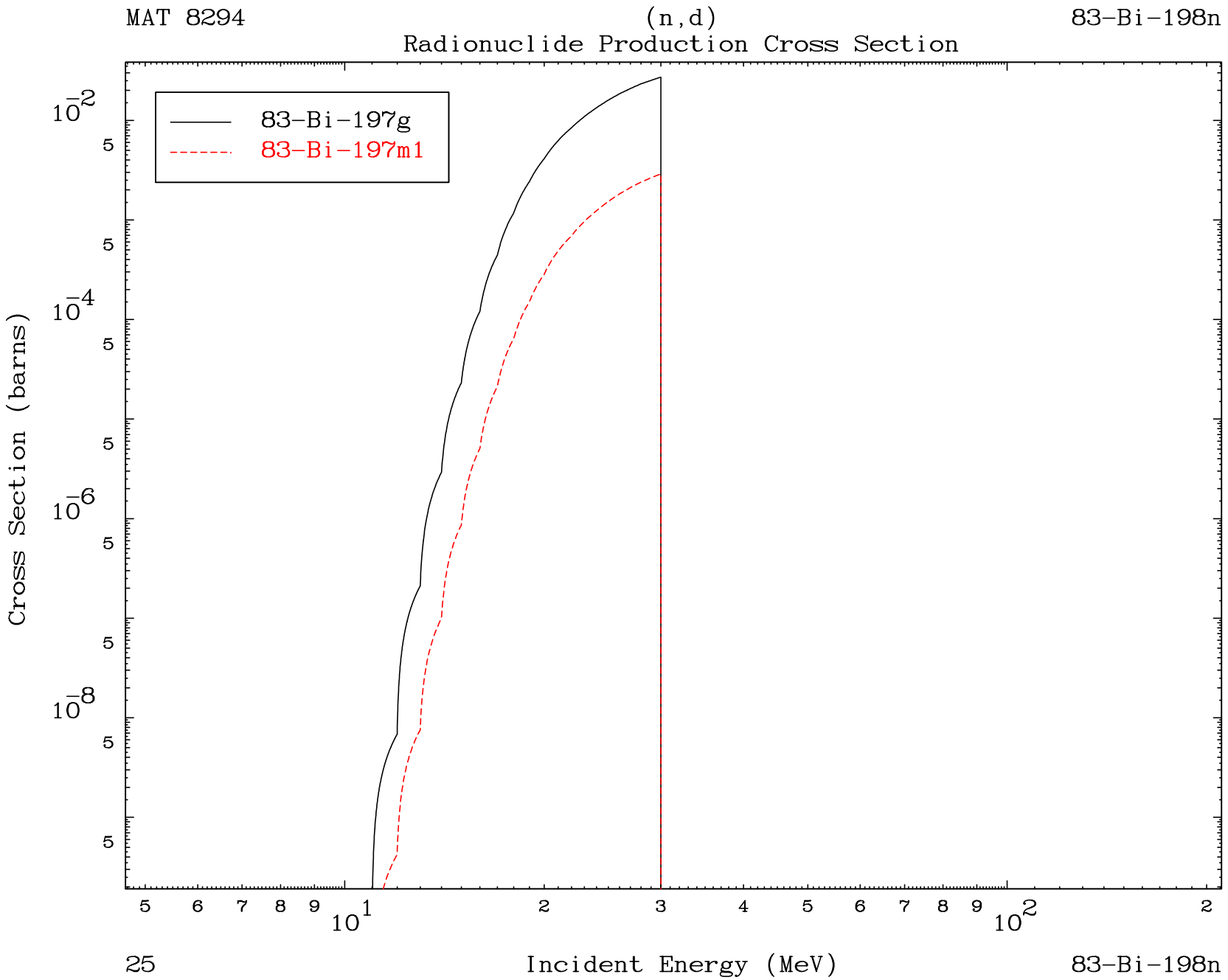

MAT 8294
(n,2n) p
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
20
83-Bi-198n

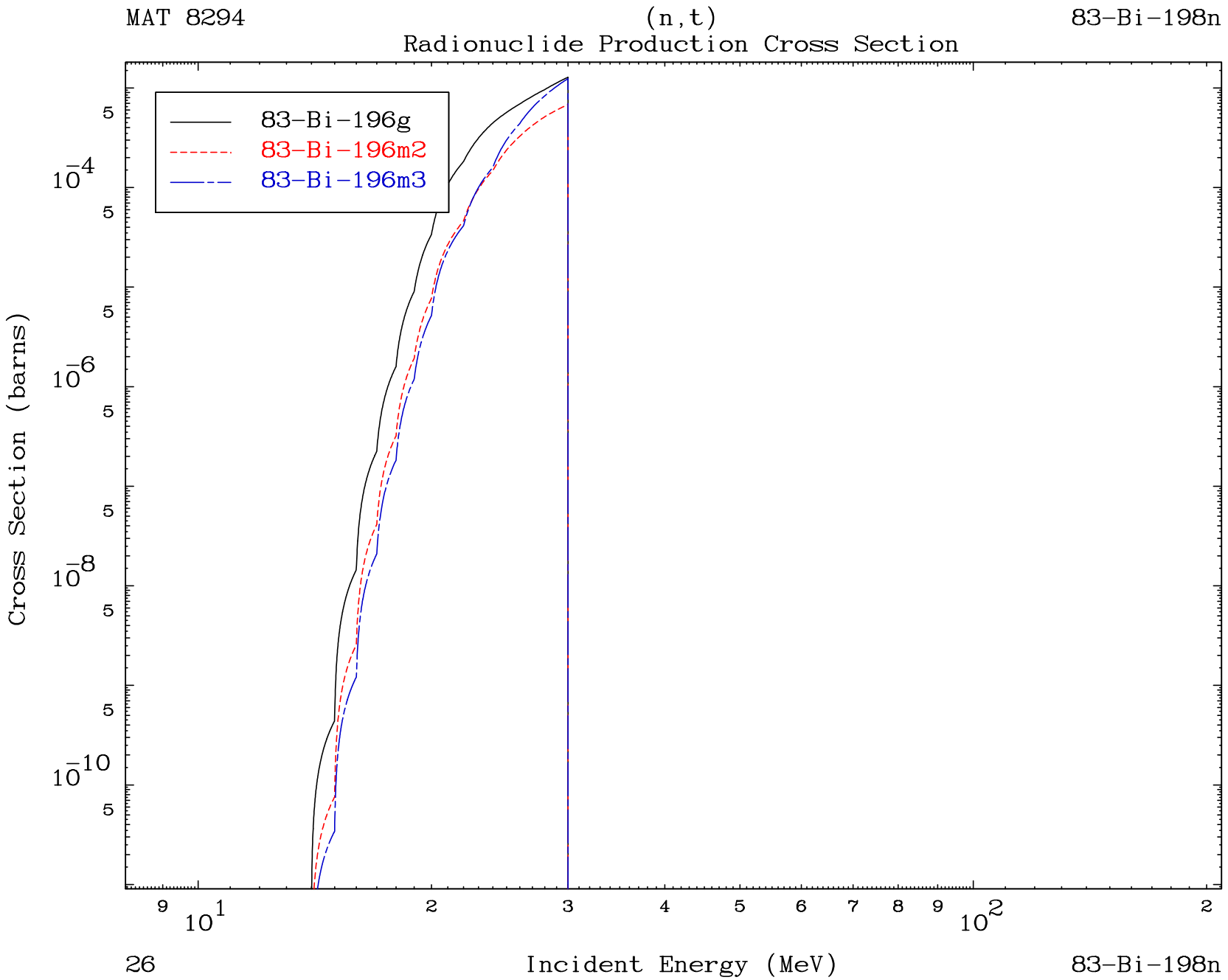

MAT 8294
(n,3n) p
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
Incident Energy (MeV)
21
83-Bi-198n

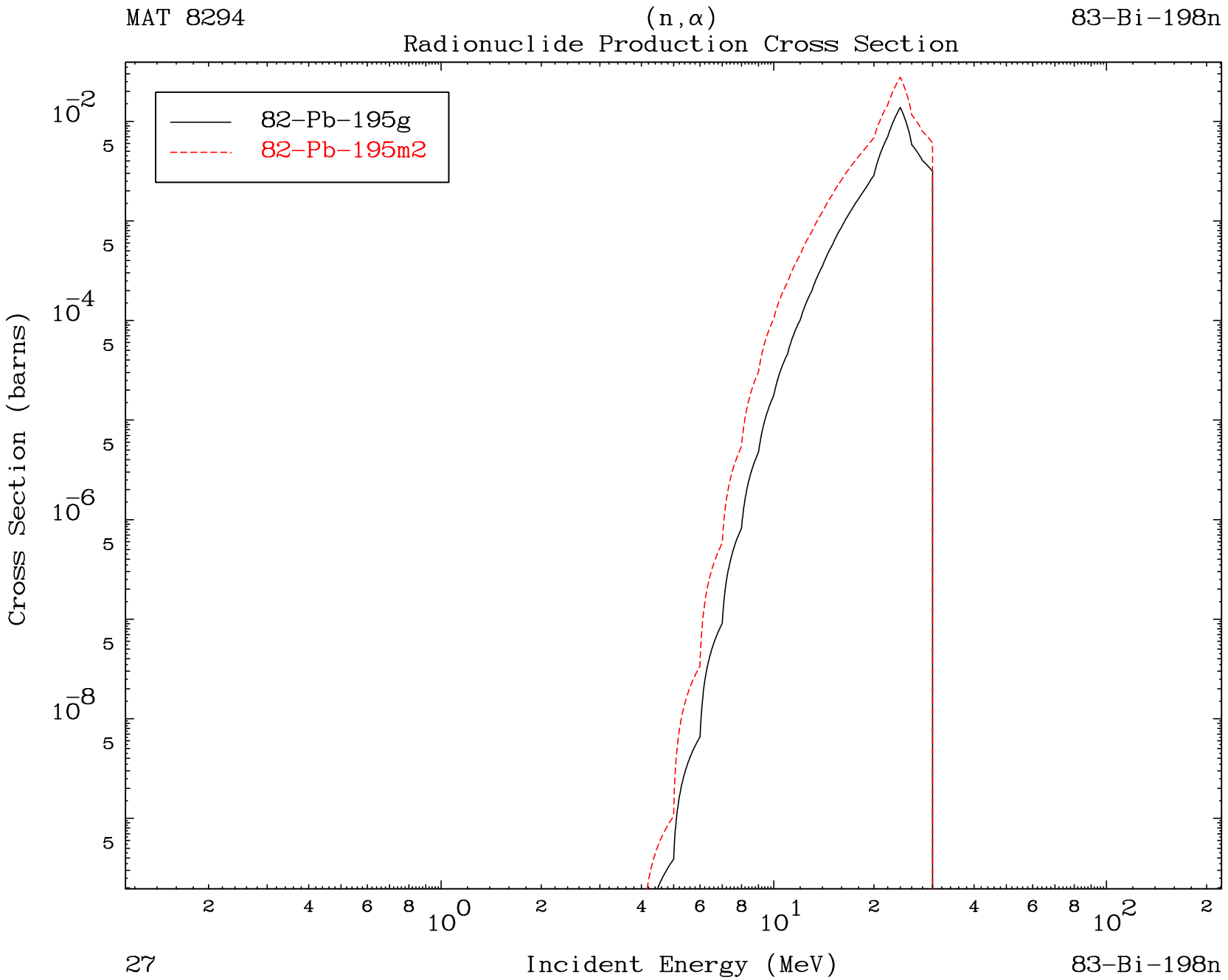

MAT 8294
(n,n') p α
83-Bi-198n
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
4
6
8
10^1
10^2
22
Incident Energy (MeV)
83-Bi-198n

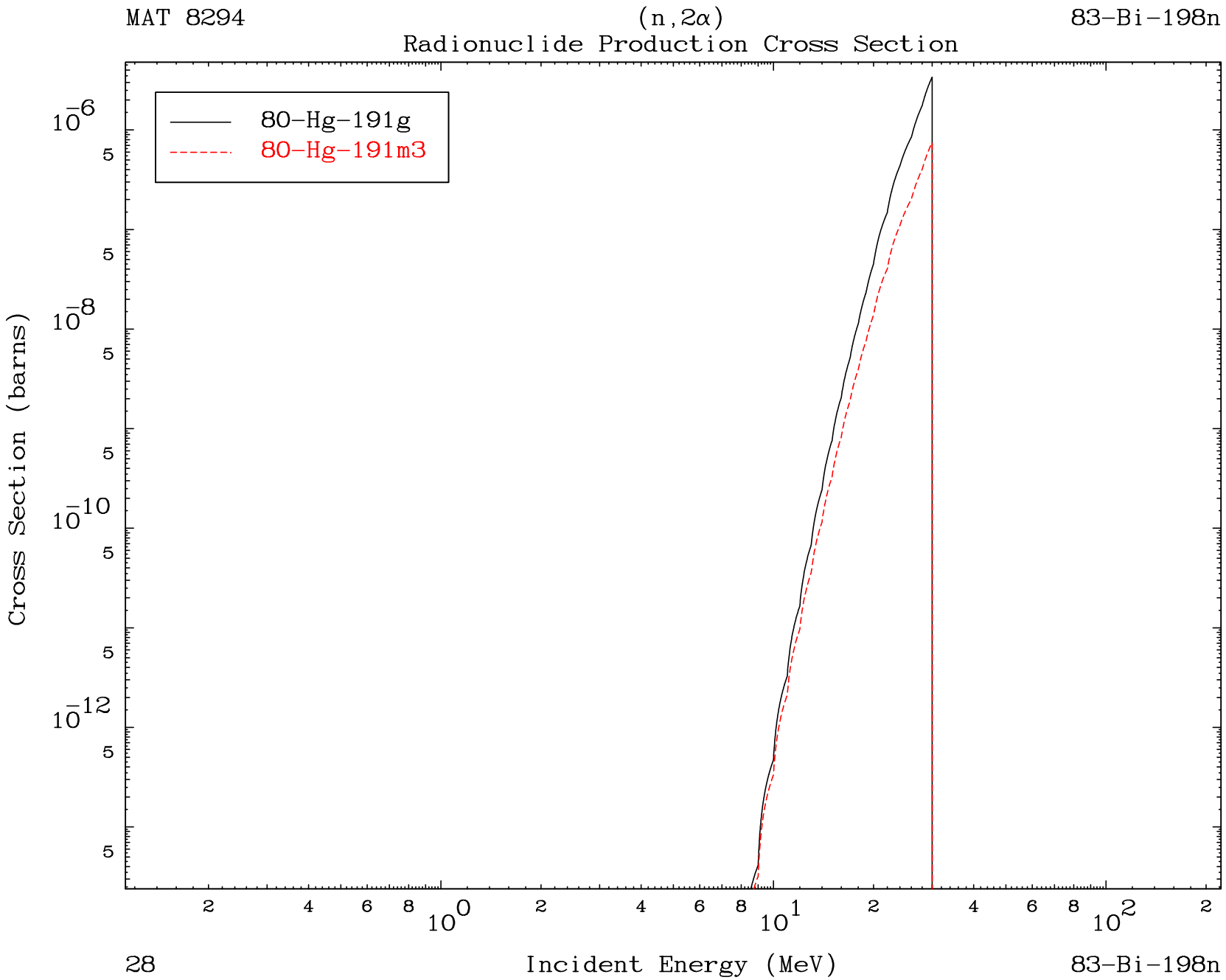

MAT 8294
(n,γ)
83-Bi-198n
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
101
102
2
4
6
8
23
Incident Energy (MeV)
83-Bi-198n

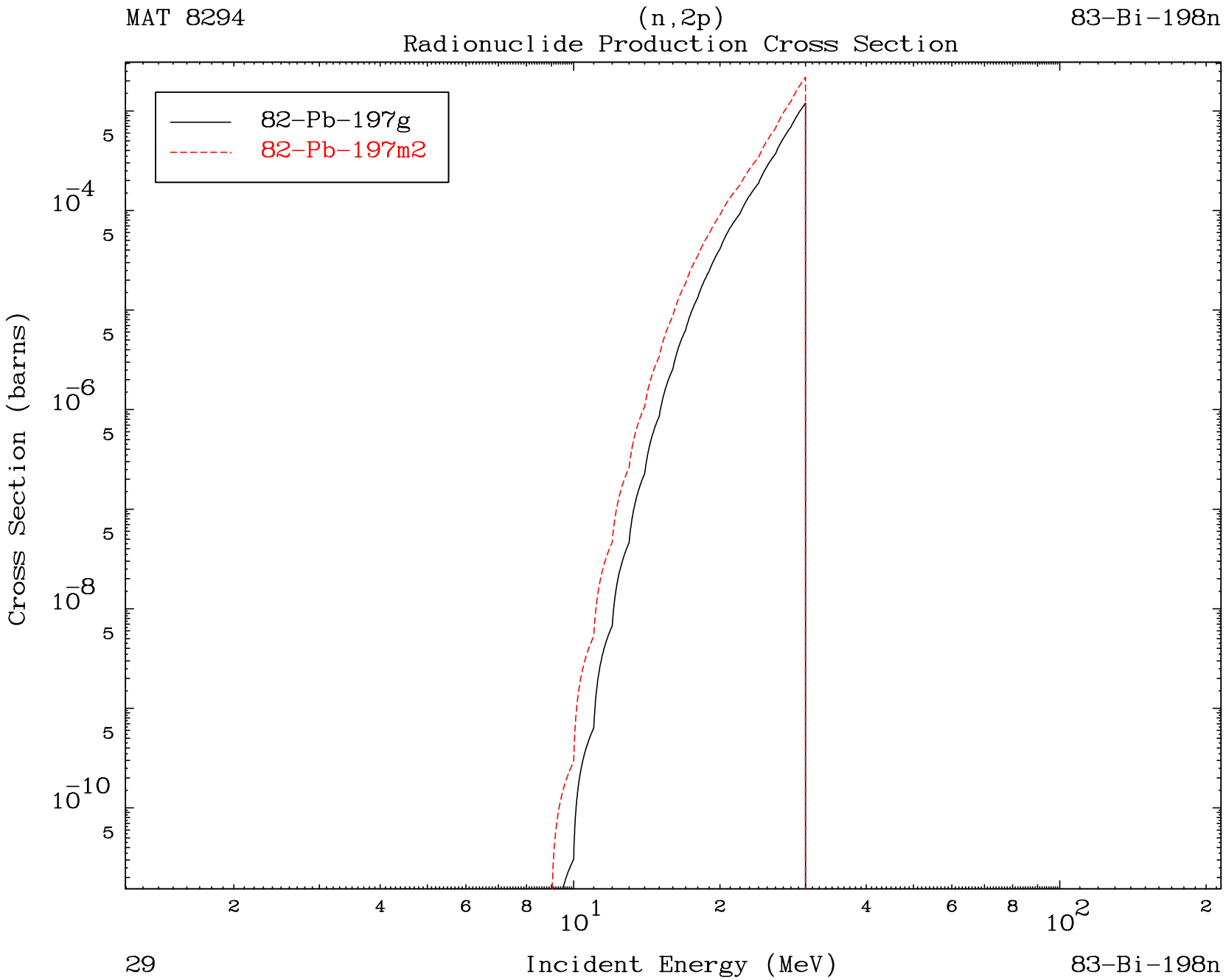

MAT 8294
(n,p)
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
Incident Energy (MeV)
24
83-Bi-198n

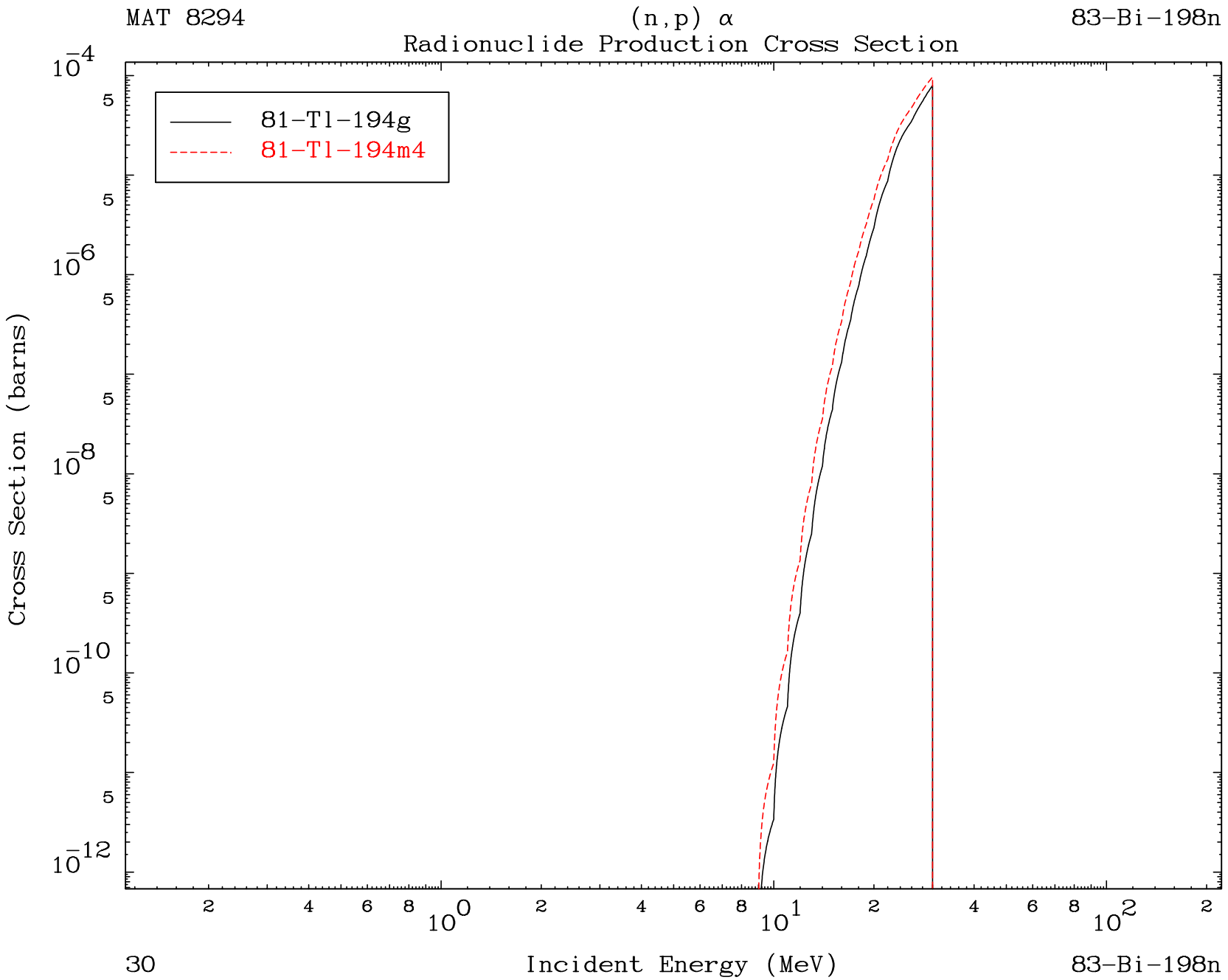

MAT 8294
(n,d)
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
25
83-Bi-198n

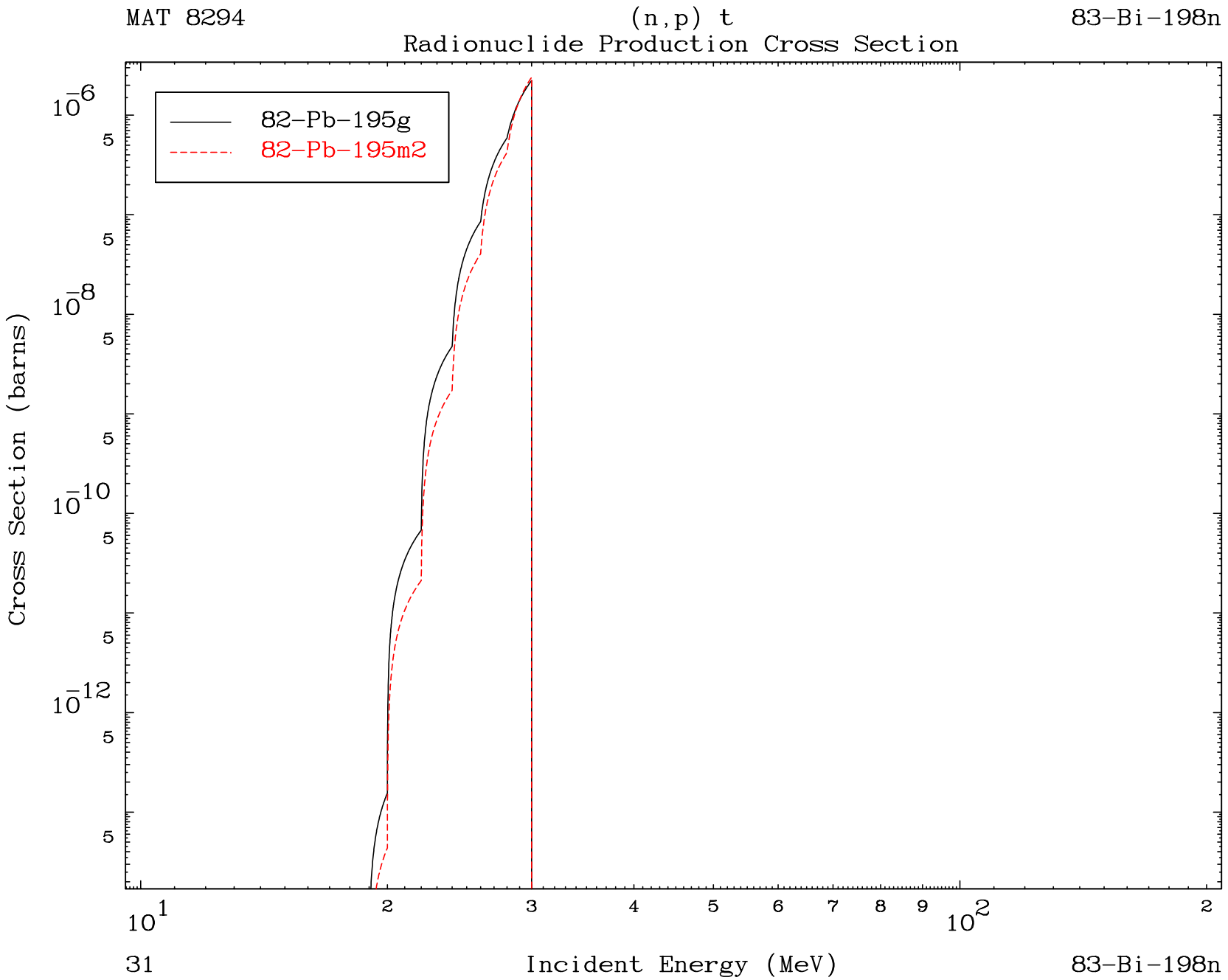

MAT 8294
(n,t)
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
9
10^1
2
3
4
5
6
7
8
9
10^2
2
26
Incident Energy (MeV)
83-Bi-198n

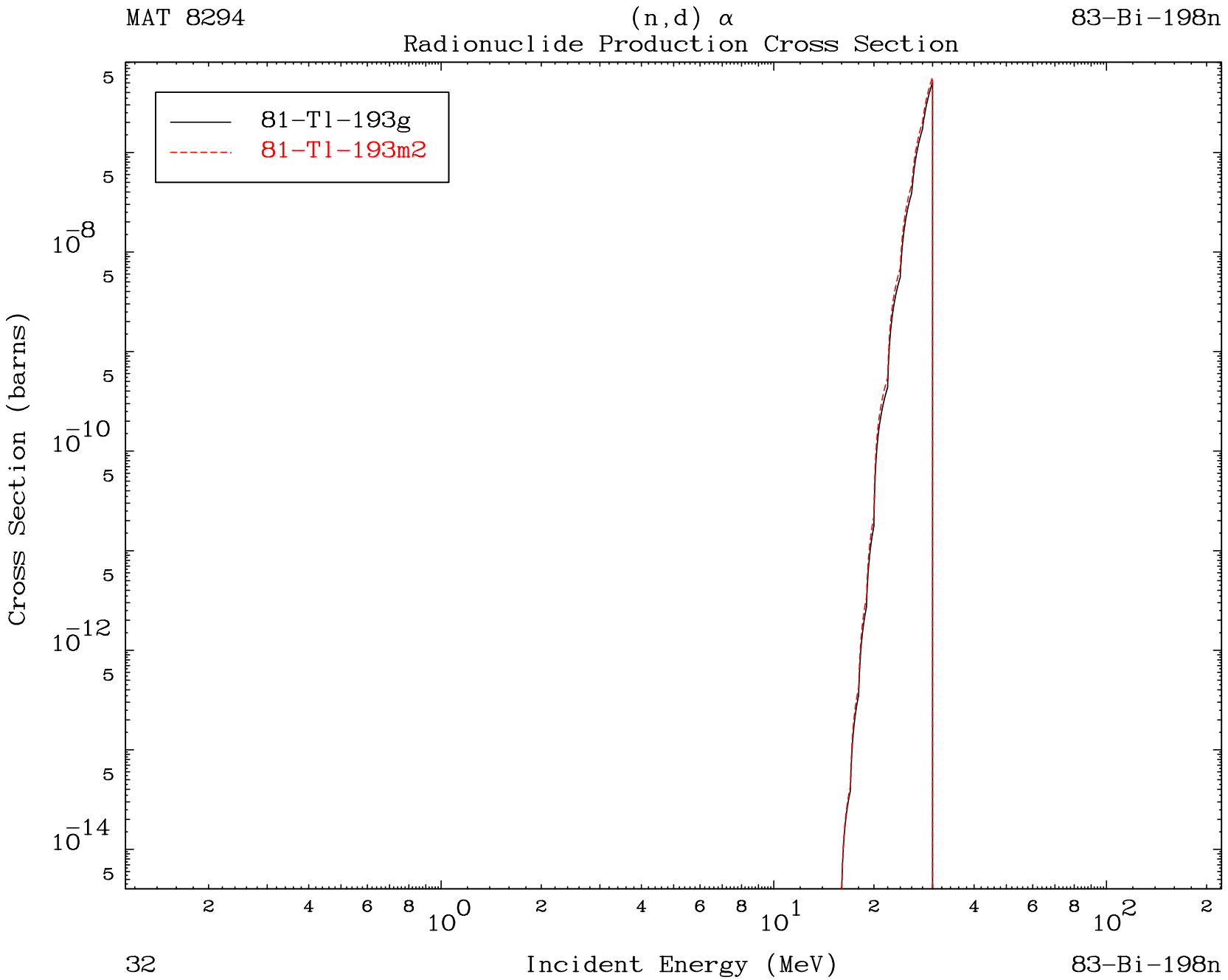

MAT 8294
(n,α)
83-Bi-198n
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
27
83-Bi-198n


MAT 8294
(n,2α)
83-Bi-198n
Radionuclide Production Cross Section
80-Hg-191g
80-Hg-191m3
Cross Section (barns)
Incident Energy (MeV)
28
83-Bi-198n


MAT 8294
(n,2p)
83-Bi-198n
Radionuclide Production Cross Section
82-Pb-197g
82-Pb-197m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
4
6
8
101
102
29
Incident Energy (MeV)
83-Bi-198n


MAT 8294
(n,p) α
83-Bi-198n
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m4
Cross Section (barns)
Incident Energy (MeV)
30
83-Bi-198n


MAT 8294
(n,p) t
83-Bi-198n
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^1
2
3
4
5
6
7
8
9
10^2
2
31
Incident Energy (MeV)
83-Bi-198n


MAT 8294
(n,d) α
83-Bi-198n
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
Incident Energy (MeV)
32
83-Bi-198n