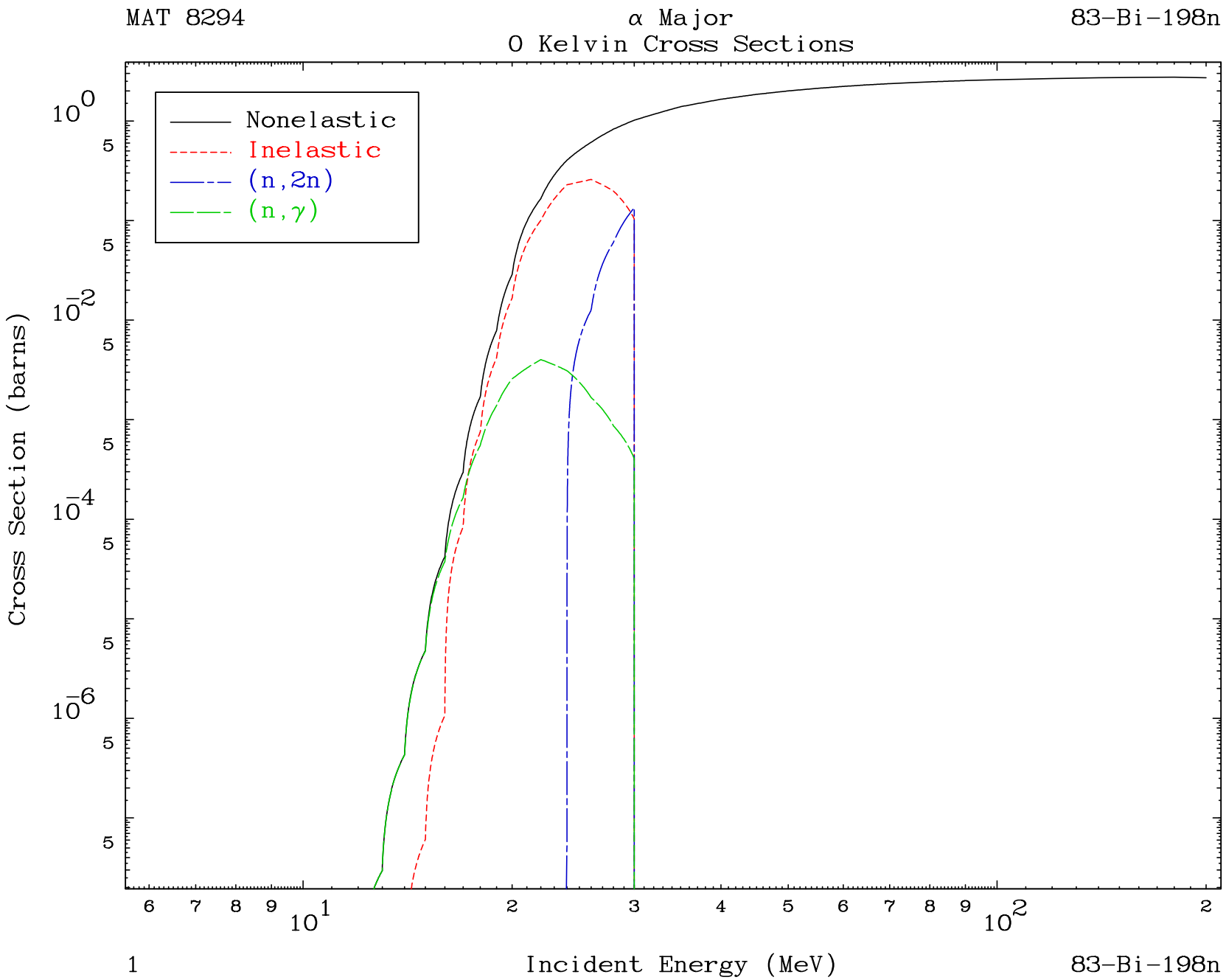
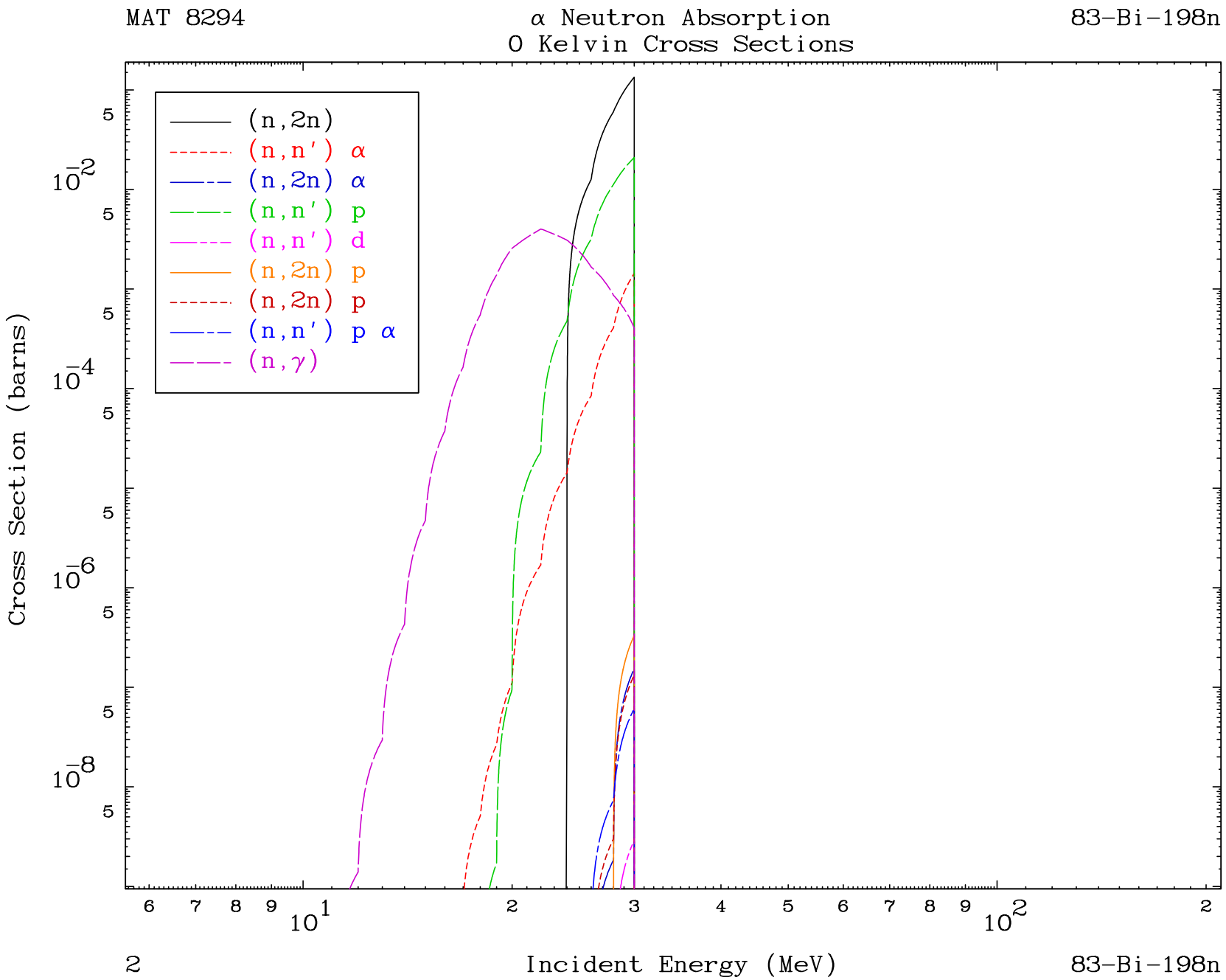
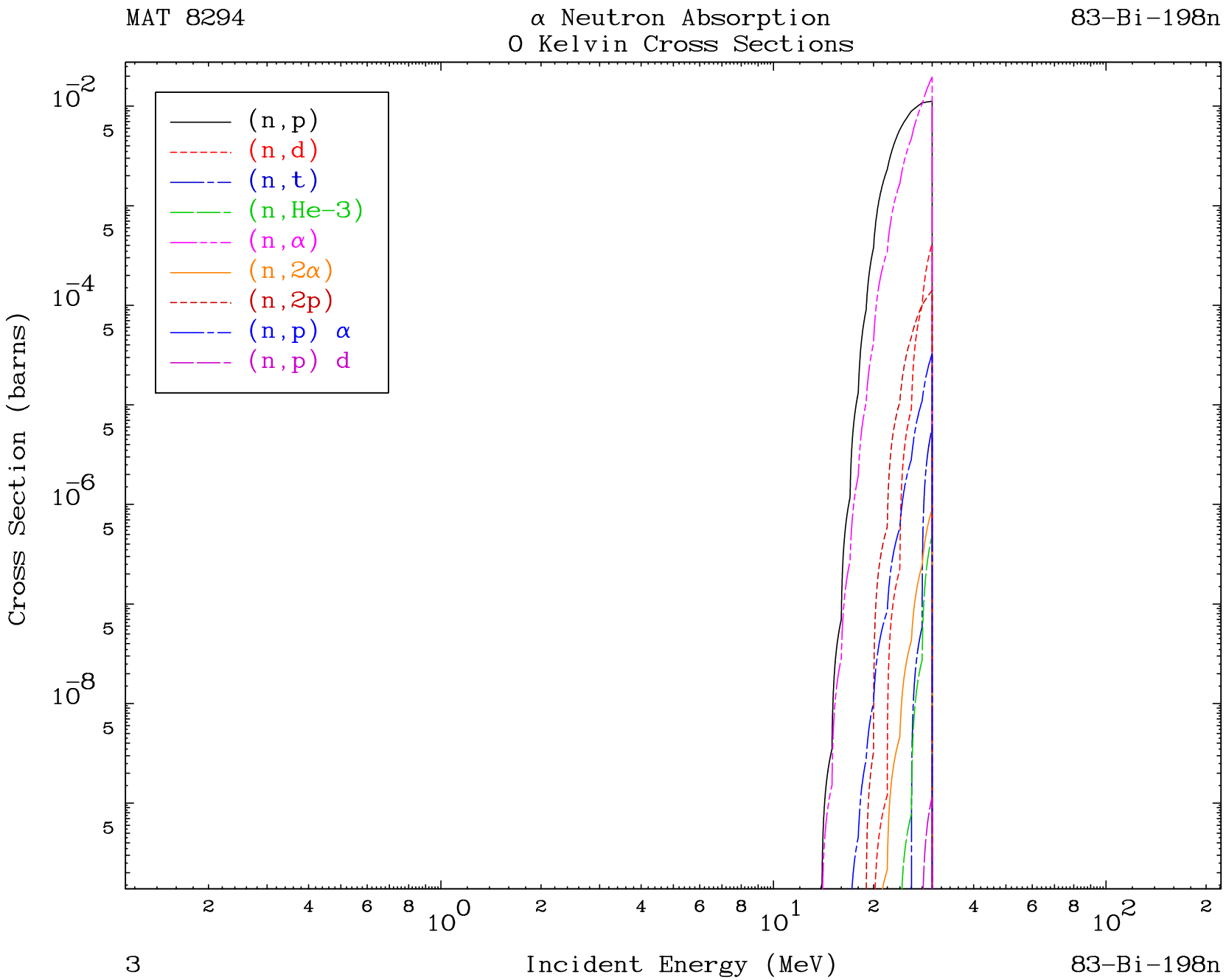
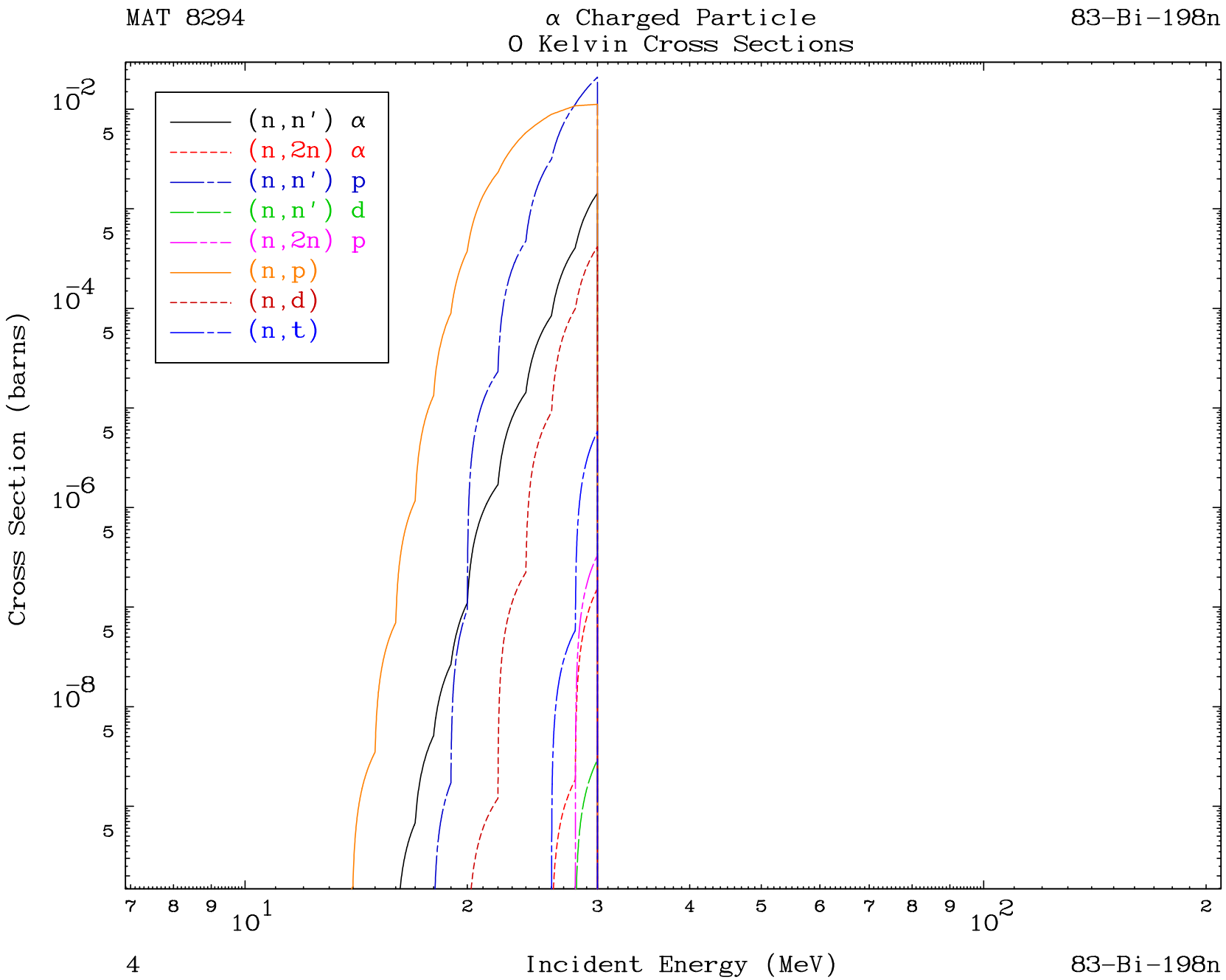
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

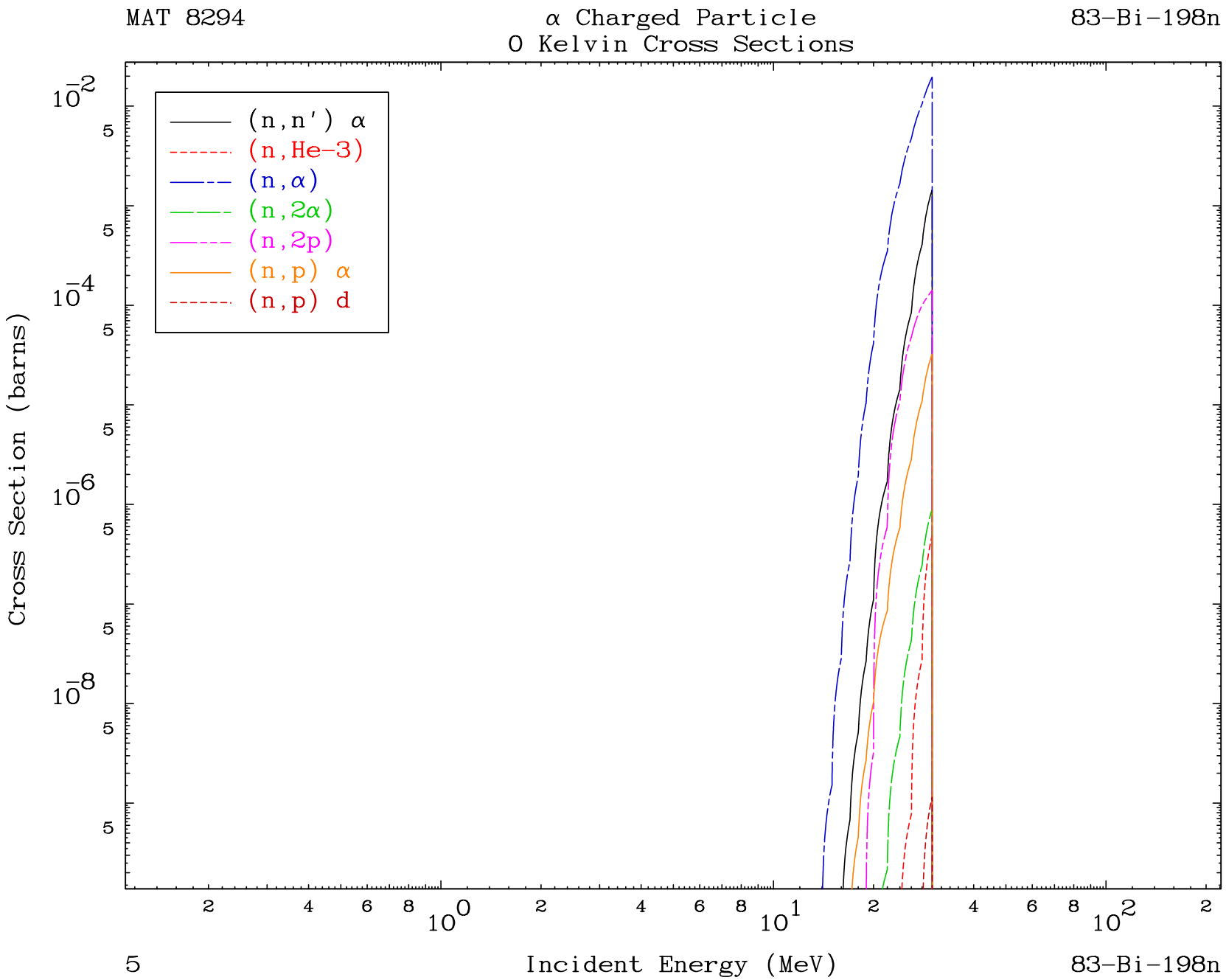
Press Mouse Button to Start

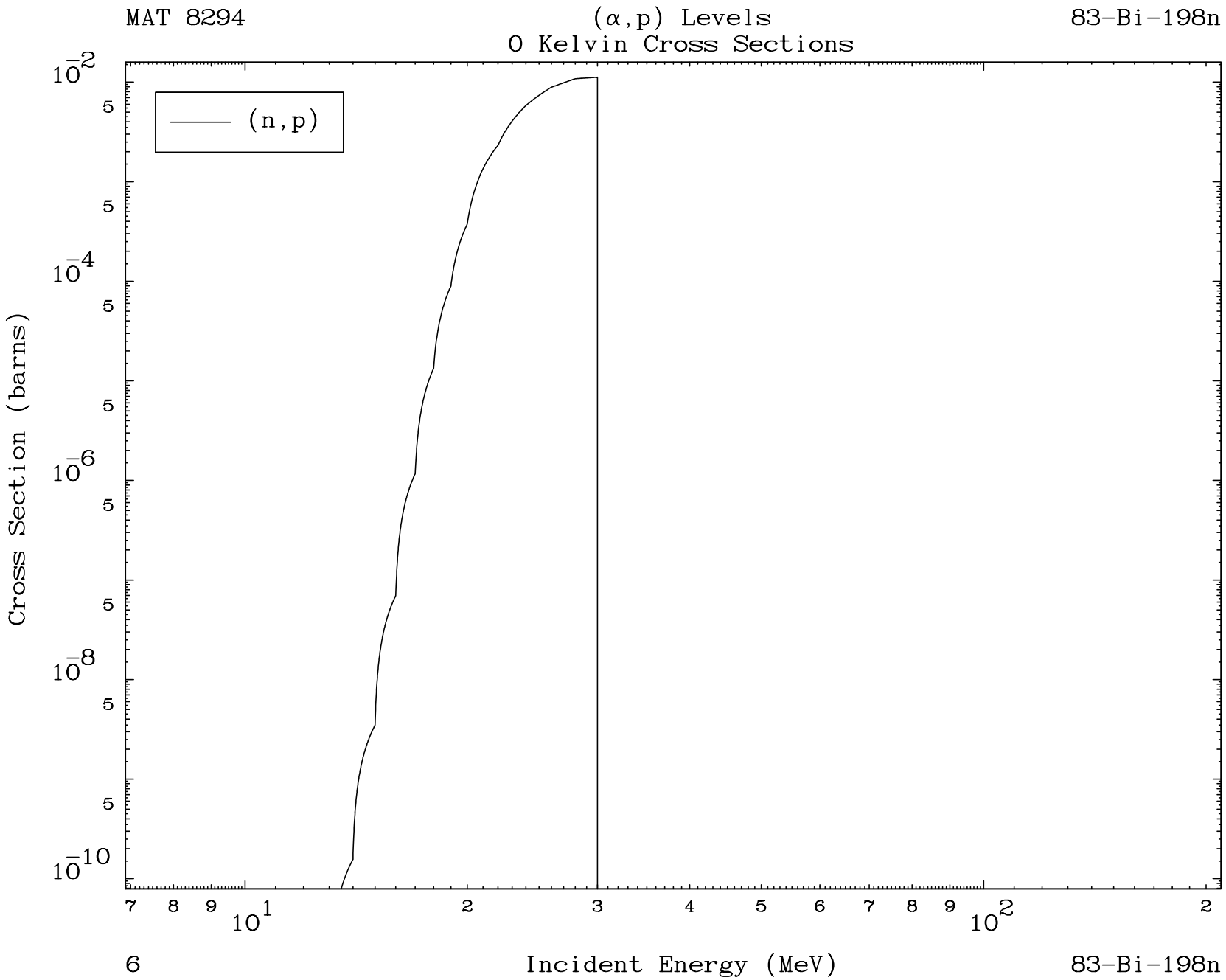

MAT 8294
α Major
83-Bi-198n
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n

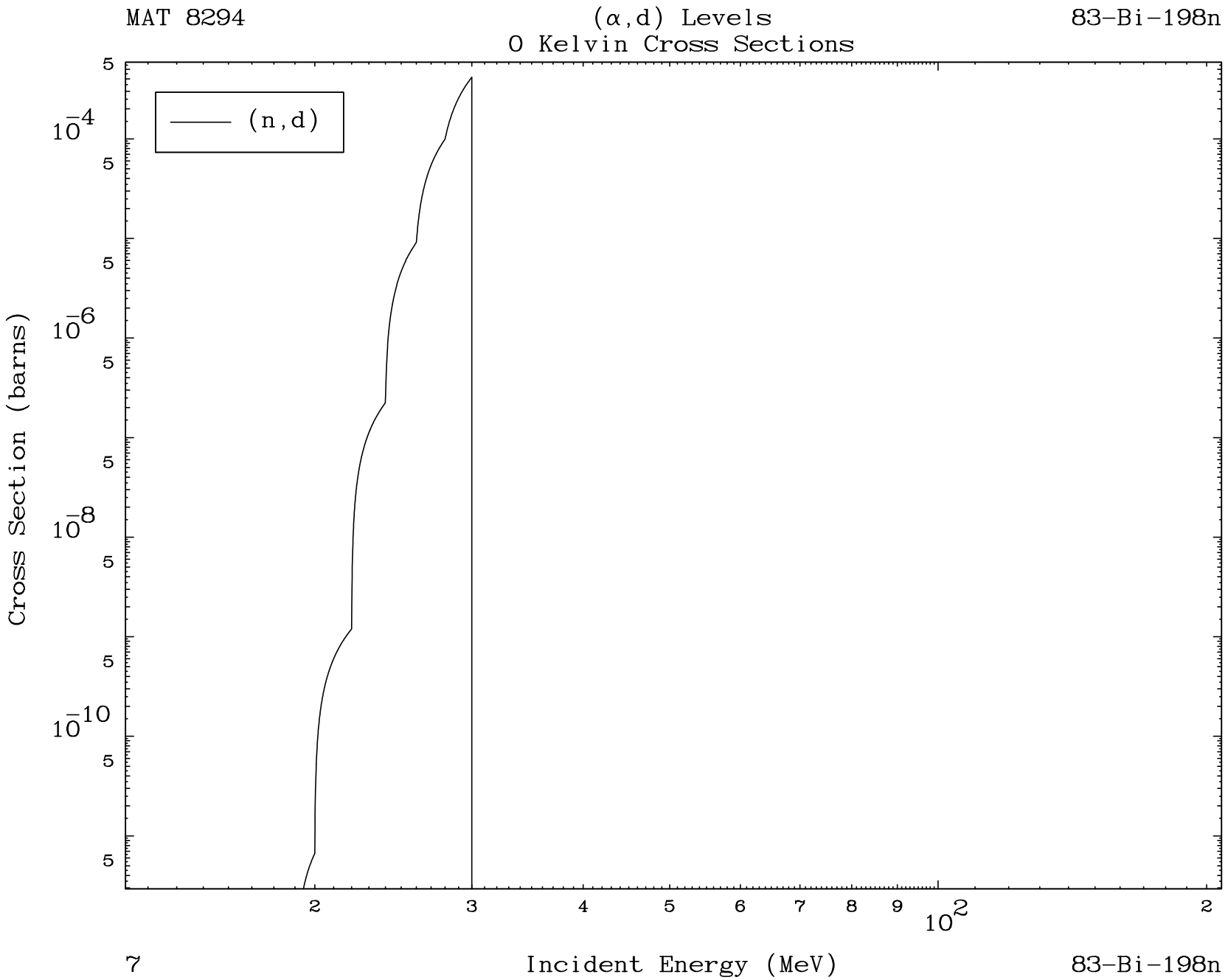

MAT 8294
α Neutron Absorption
0 Kelvin Cross Sections
83-Bi-198n
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n


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

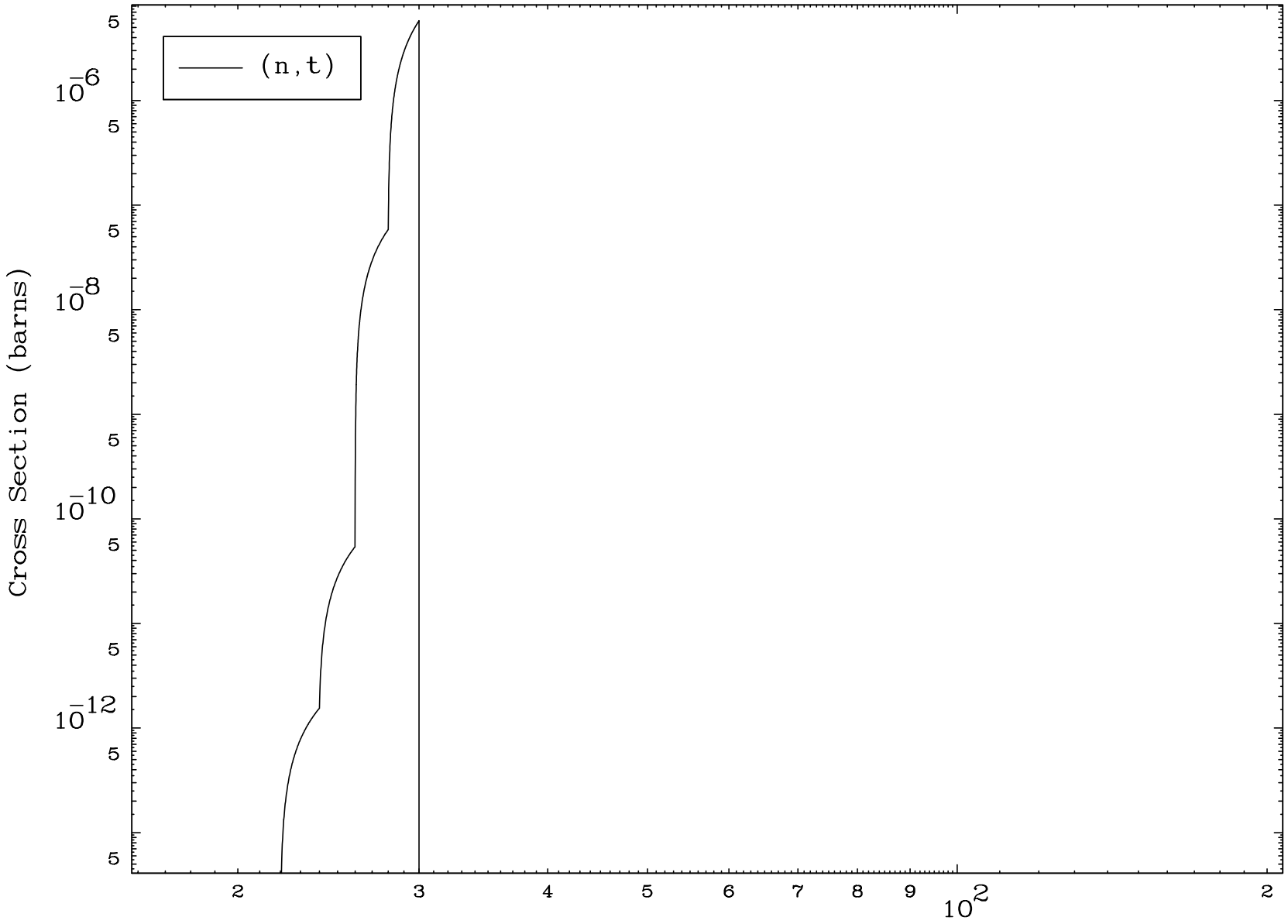

MAT 8294
α Charged Particle
0 Kelvin Cross Sections
83-Bi-198n
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
4
83-Bi-198n

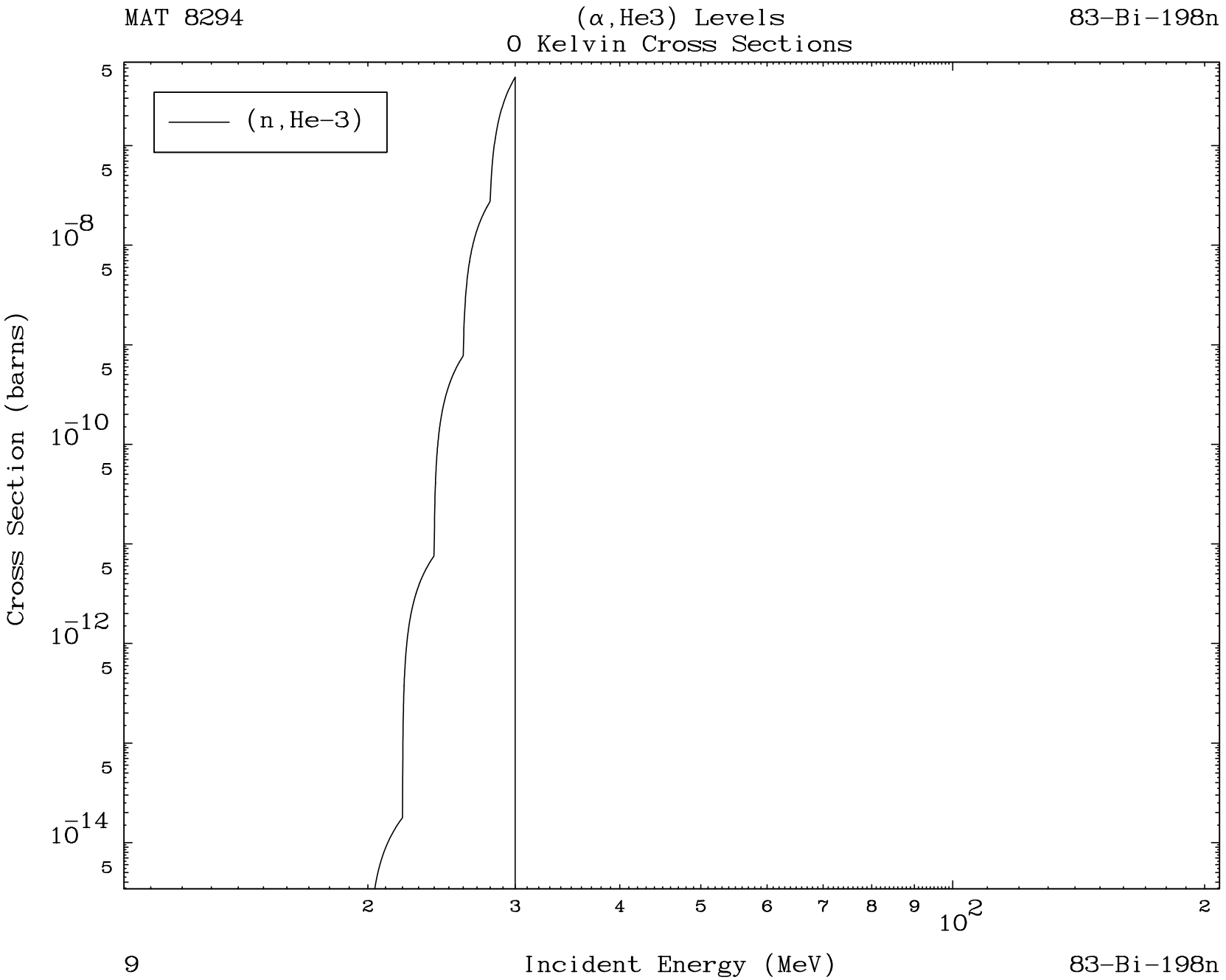

MAT 8294
α Charged Particle
0 Kelvin Cross Sections
83-Bi-198n
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
83-Bi-198n

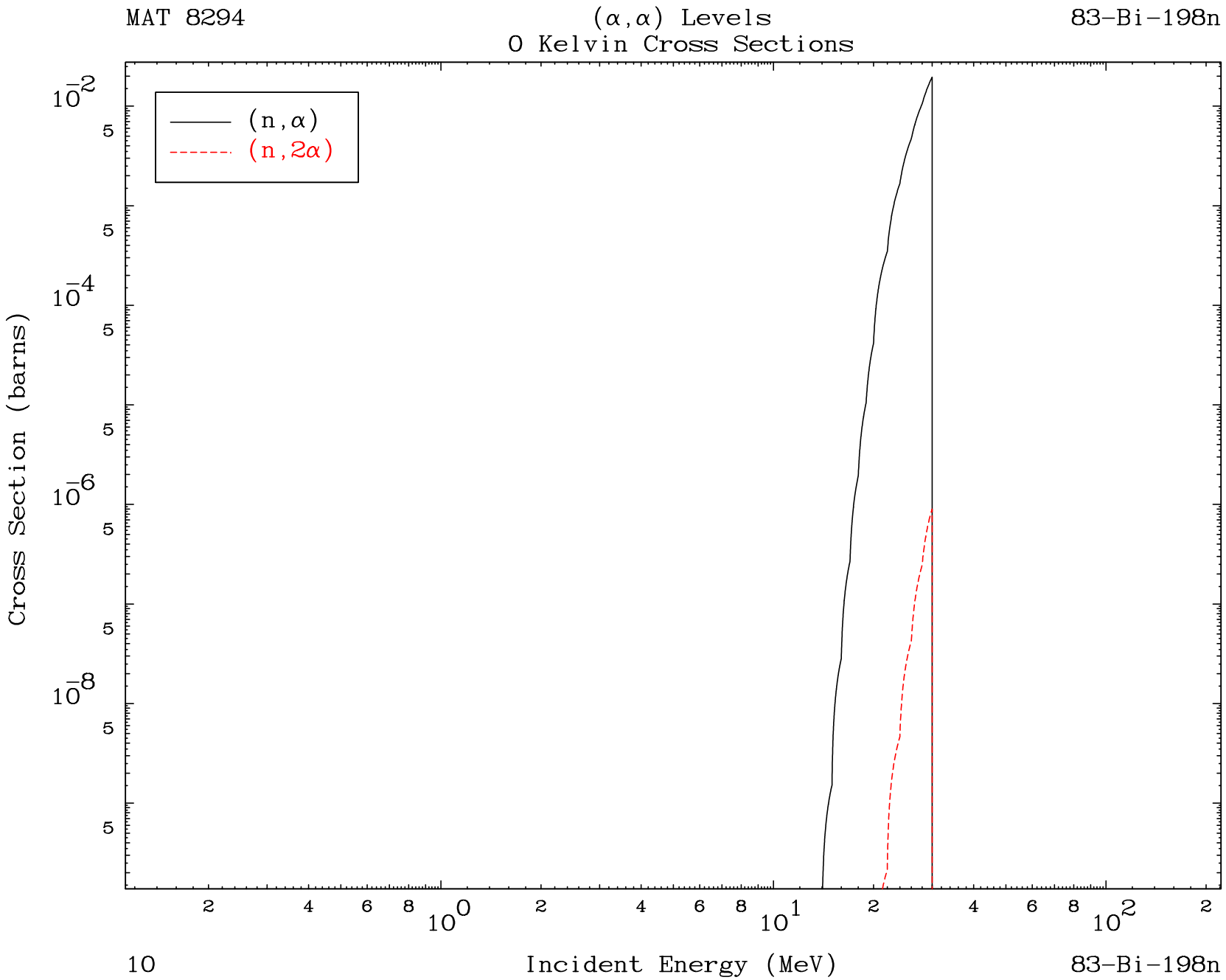

MAT 8294
(α,p) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
83-Bi-198n

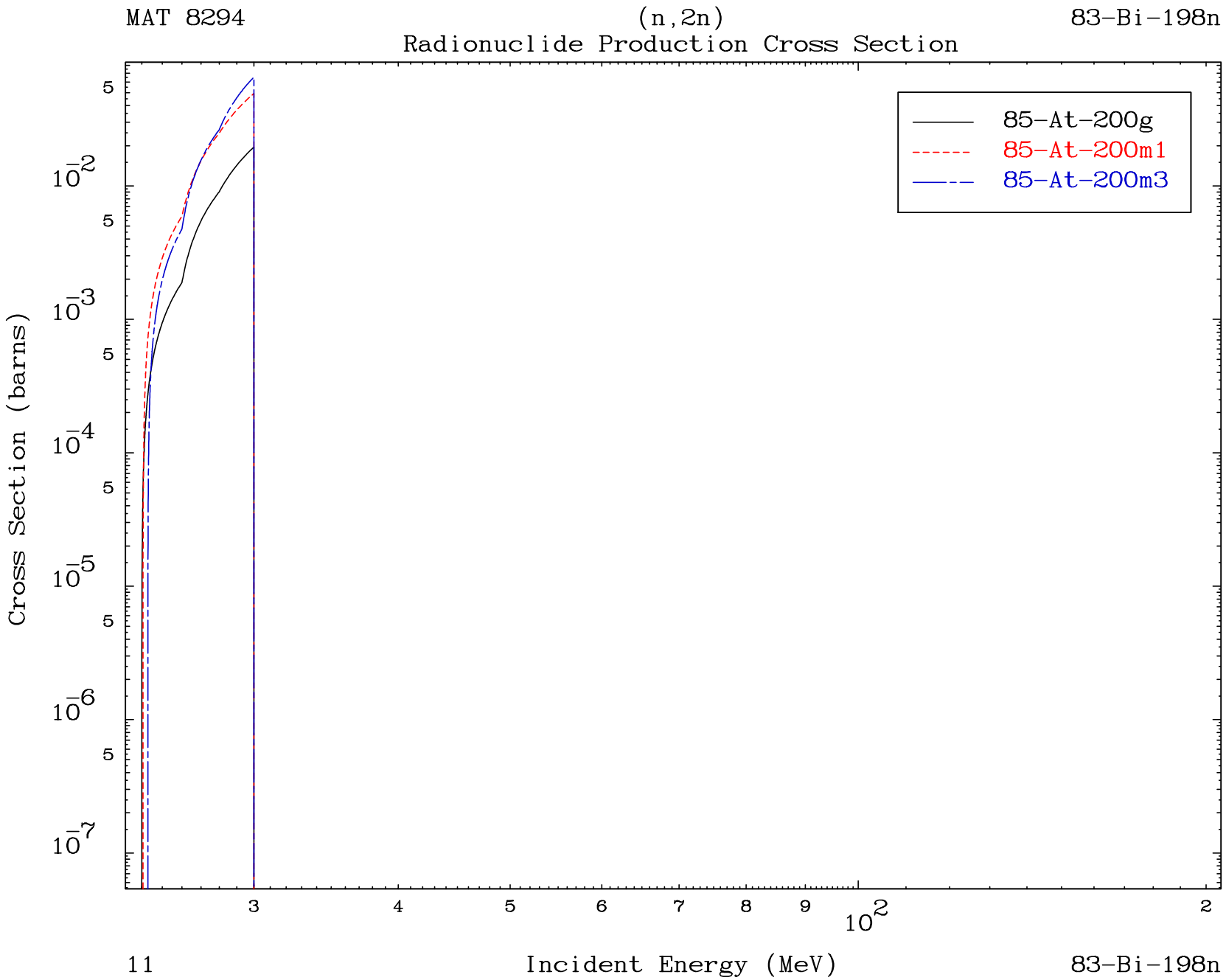

MAT 8294
(α,d) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
83-Bi-198n

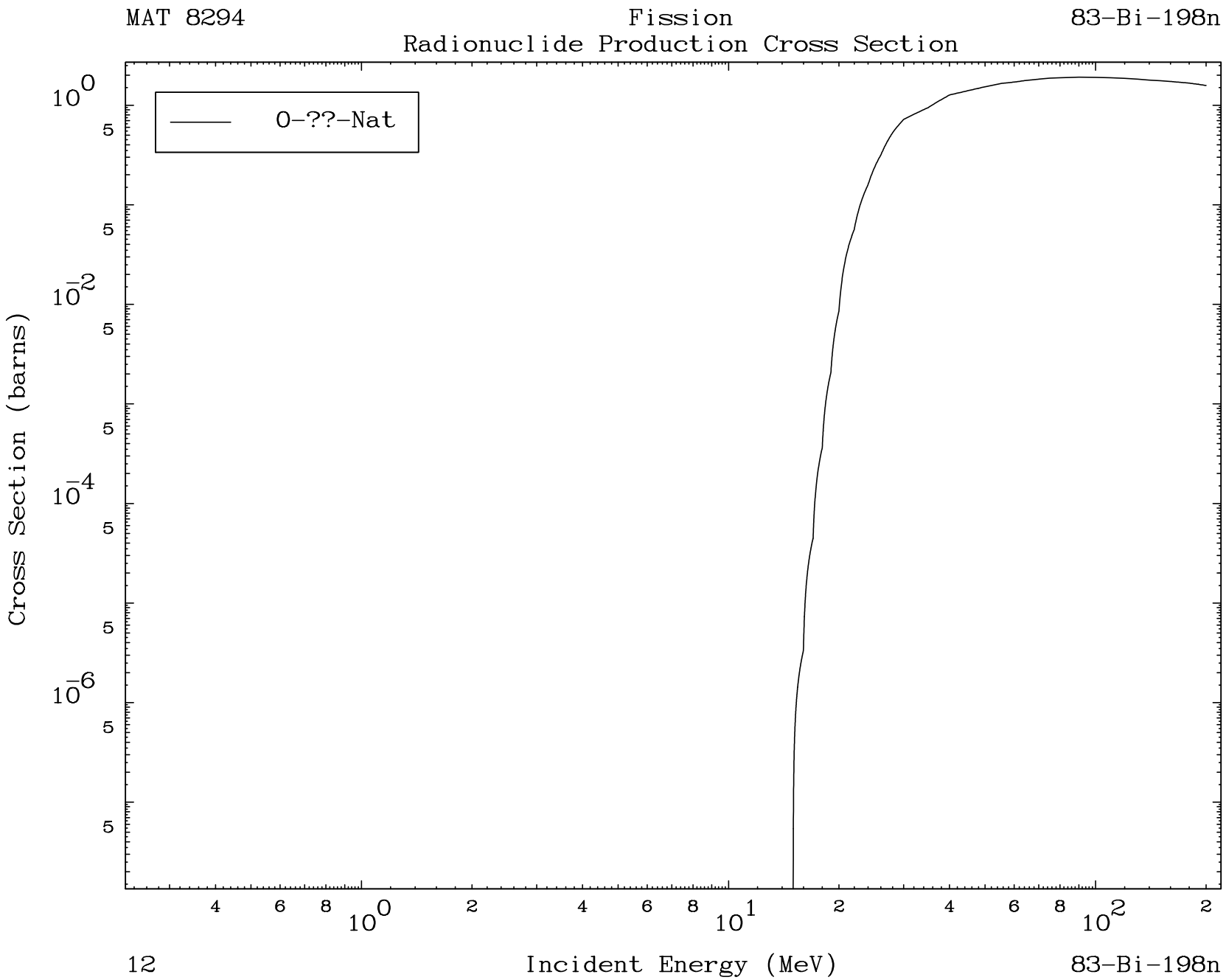
0 Kelvin Cross Sections

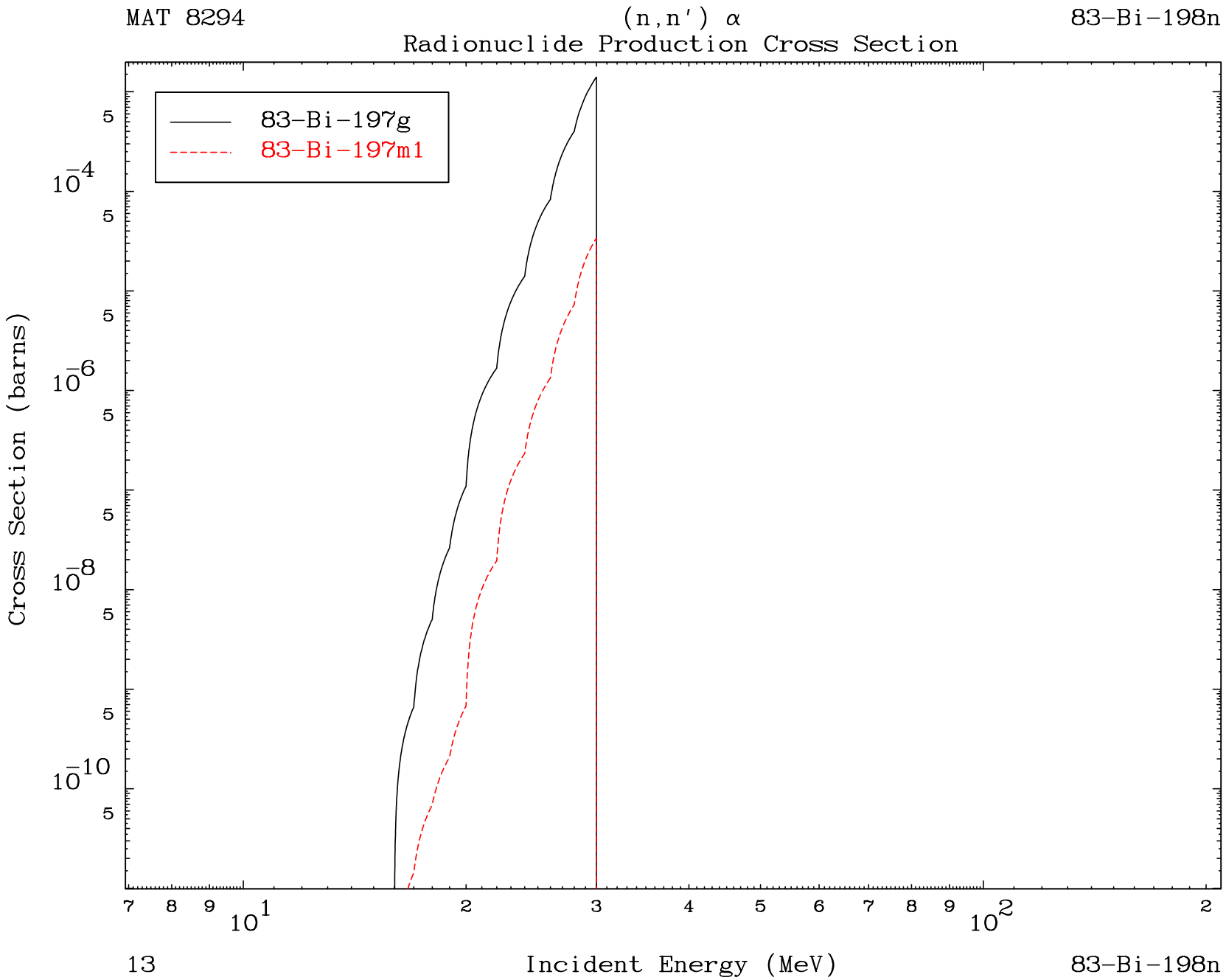


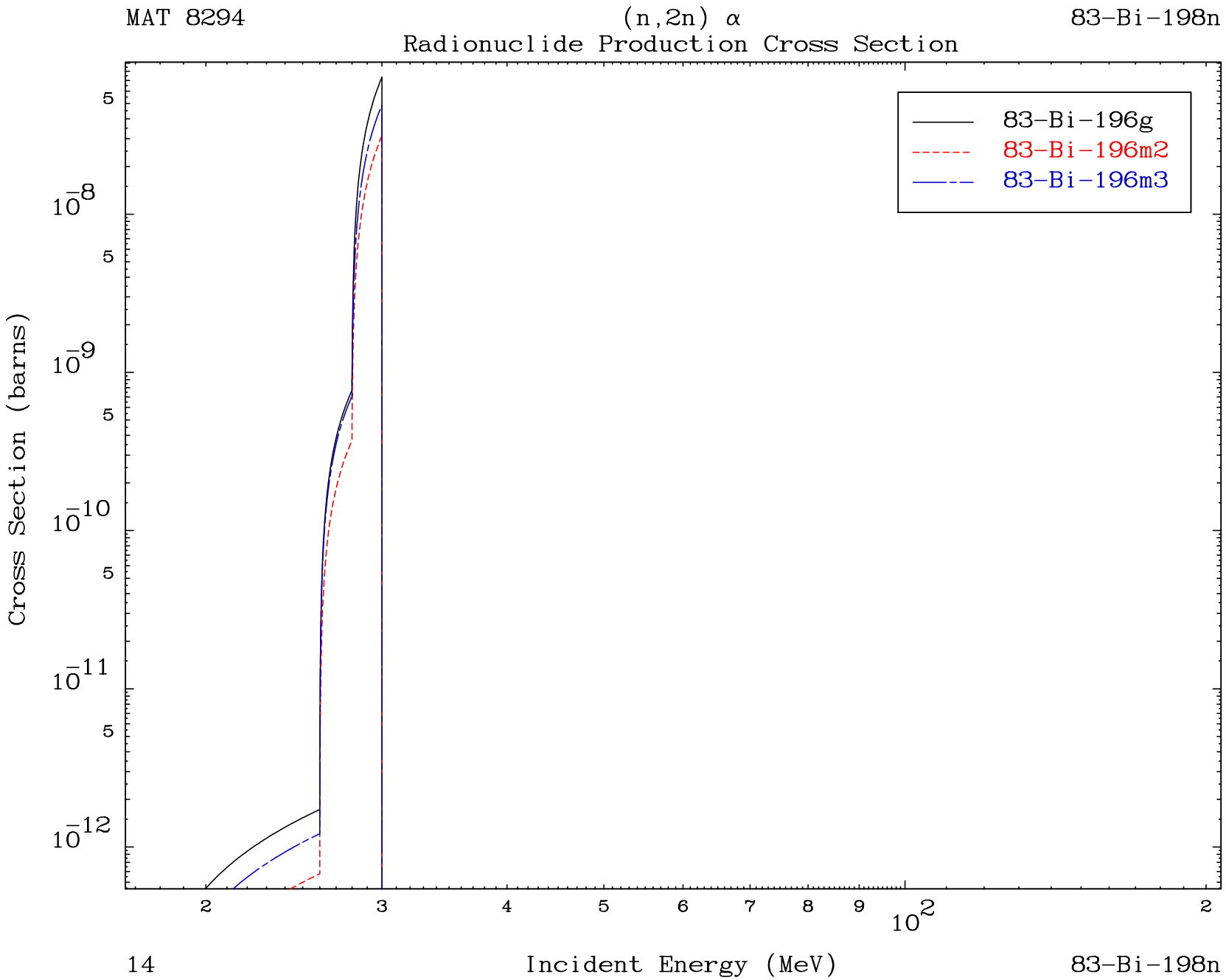

MAT 8294
(α,He3) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
83-Bi-198n

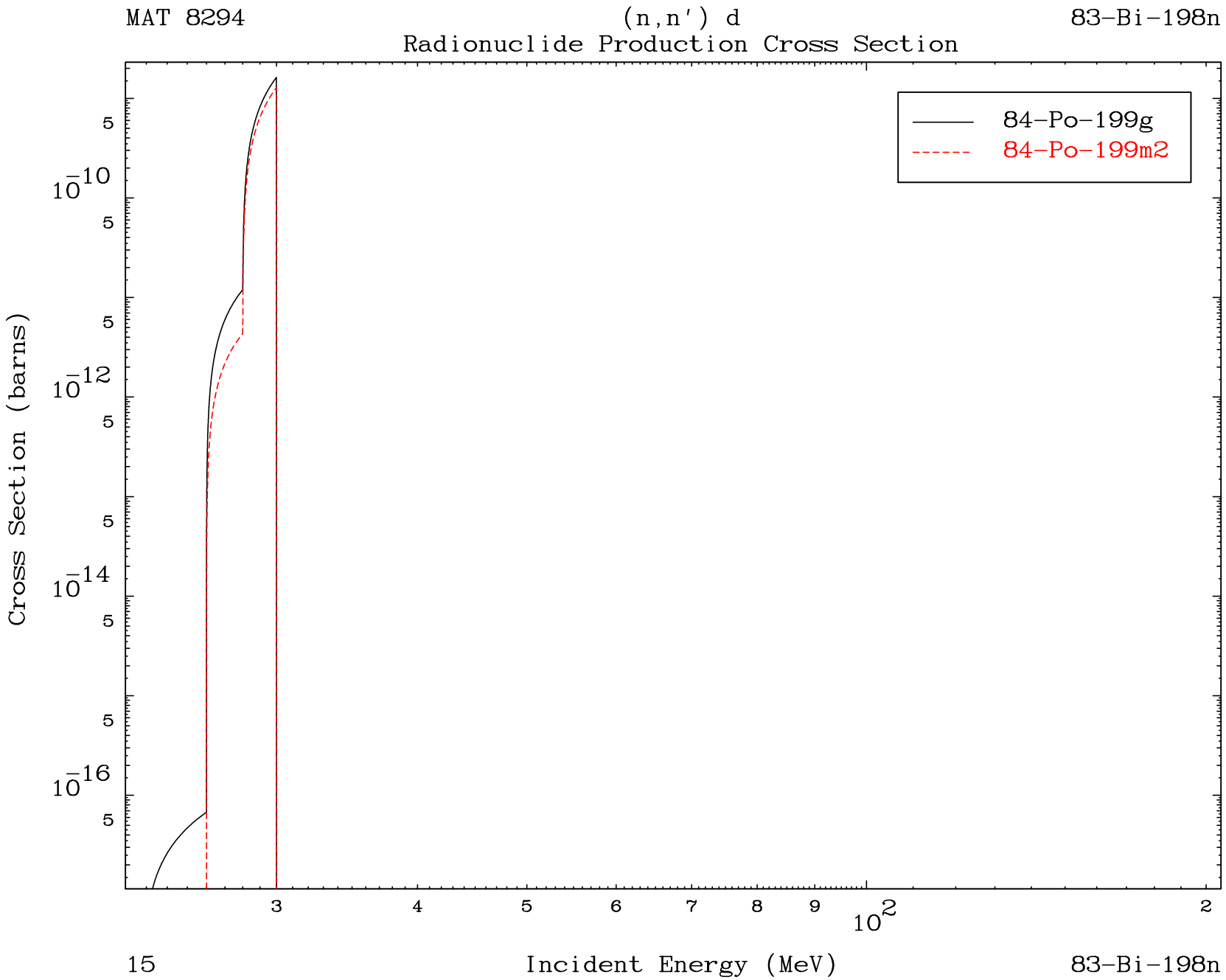

MAT 8294
(α,α) Levels
83-Bi-198n
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
83-Bi-198n

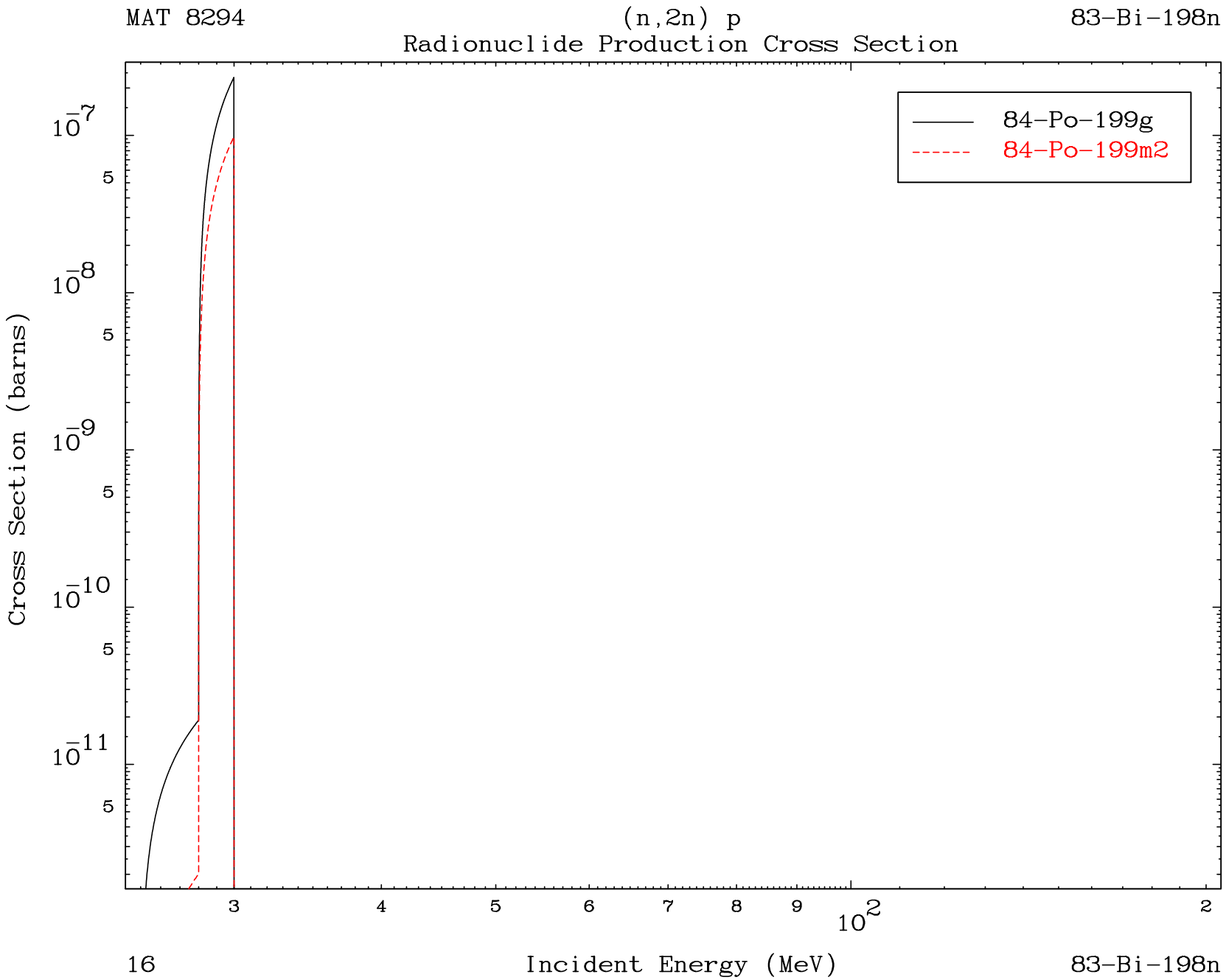

MAT 8294
(n,2n)
83-Bi-198n
Radionuclide Production Cross Section
85-At-200g
85-At-200m1
85-At-200m3
Cross Section (barns)
Incident Energy (MeV)
11
83-Bi-198n

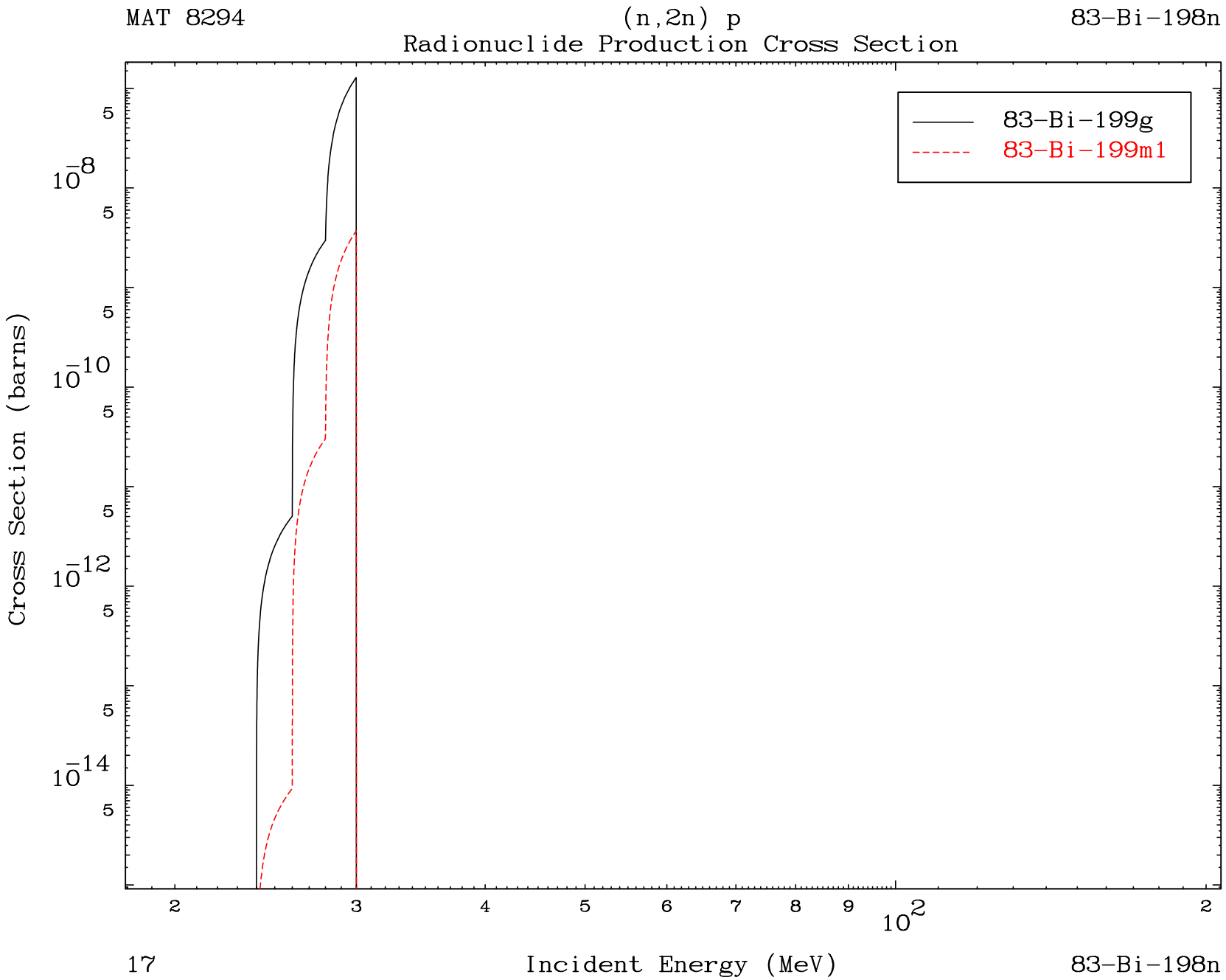

MAT 8294
Fission
83-Bi-198n
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
12
83-Bi-198n

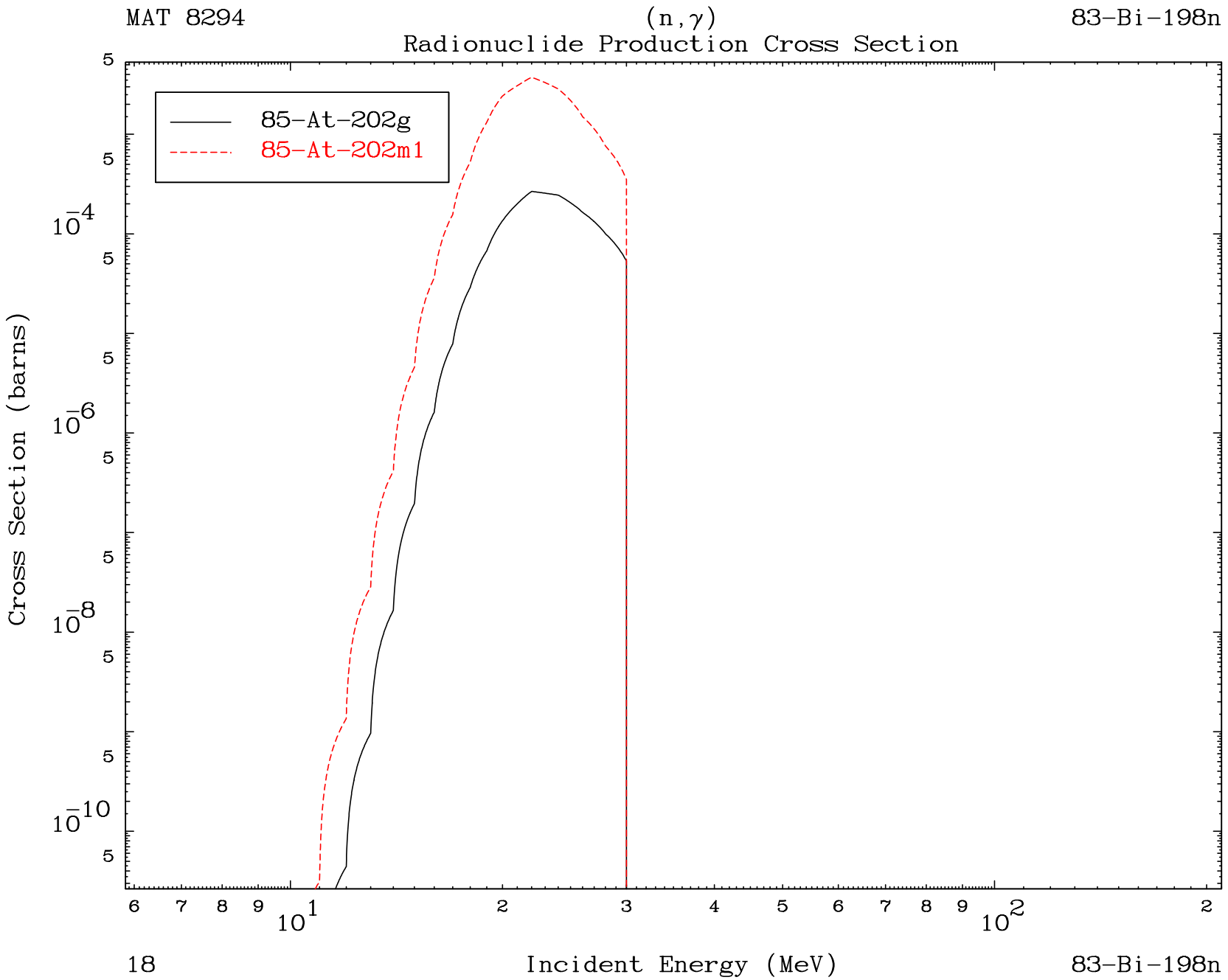

MAT 8294
(n,n') α
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
13
Incident Energy (MeV)
83-Bi-198n

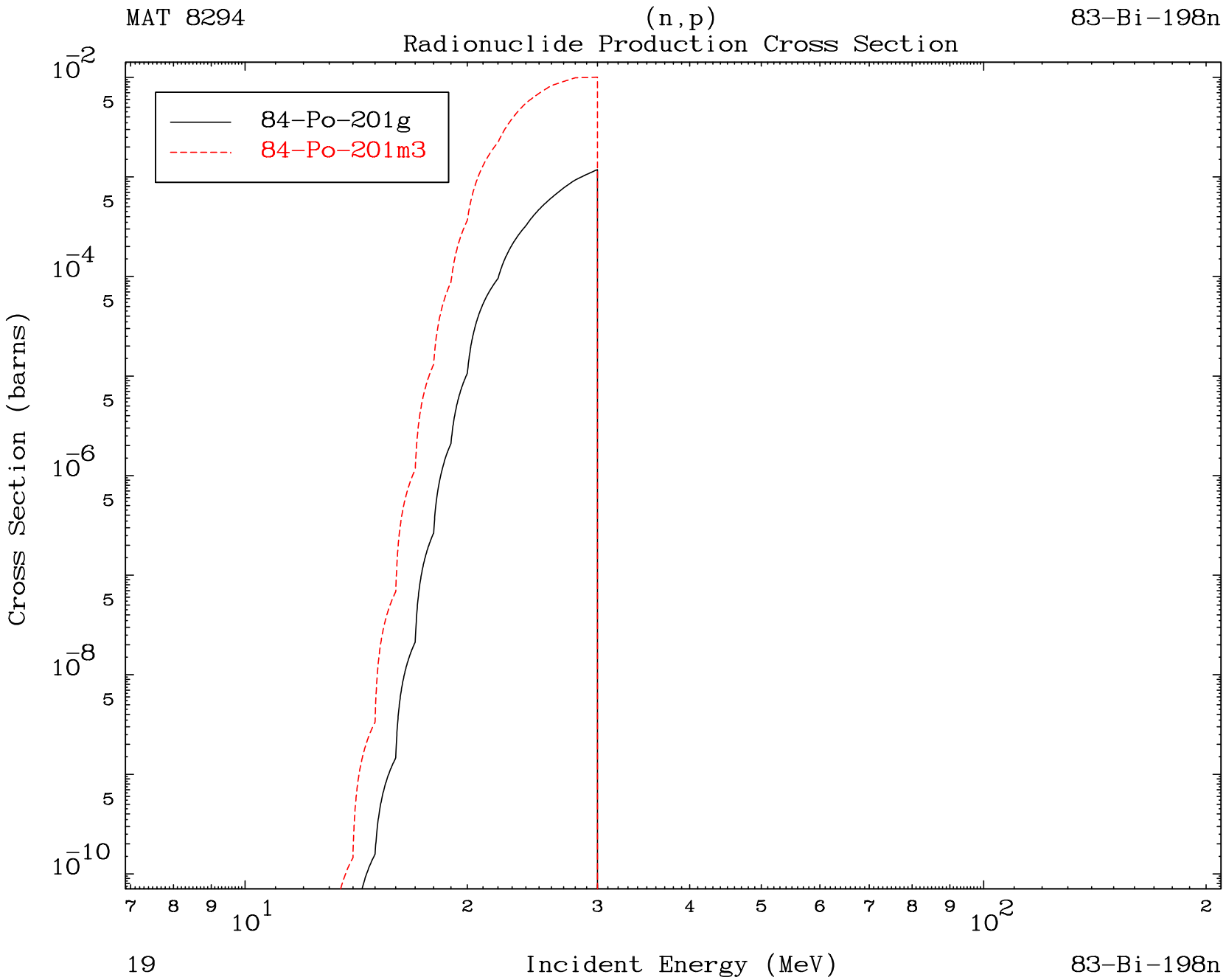

MAT 8294
(n,2n) α
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
10-8
10-9
10-10
10-11
10-12
5
2
3
4
6
7
8
9
10 2
Incident Energy (MeV)
14
83-Bi-198n

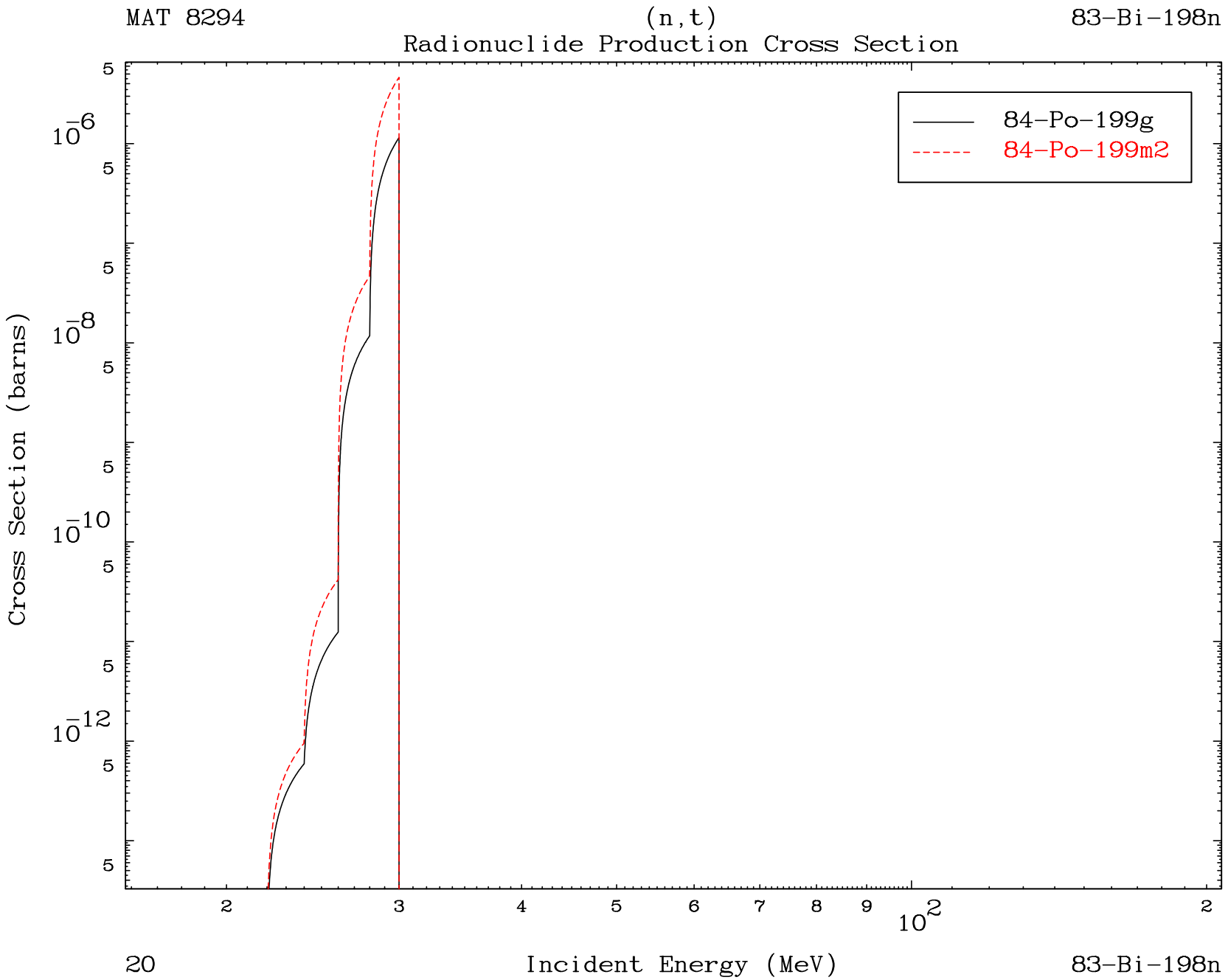

MAT 8294
(n,n') d
83-Bi-198n
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
83-Bi-198n

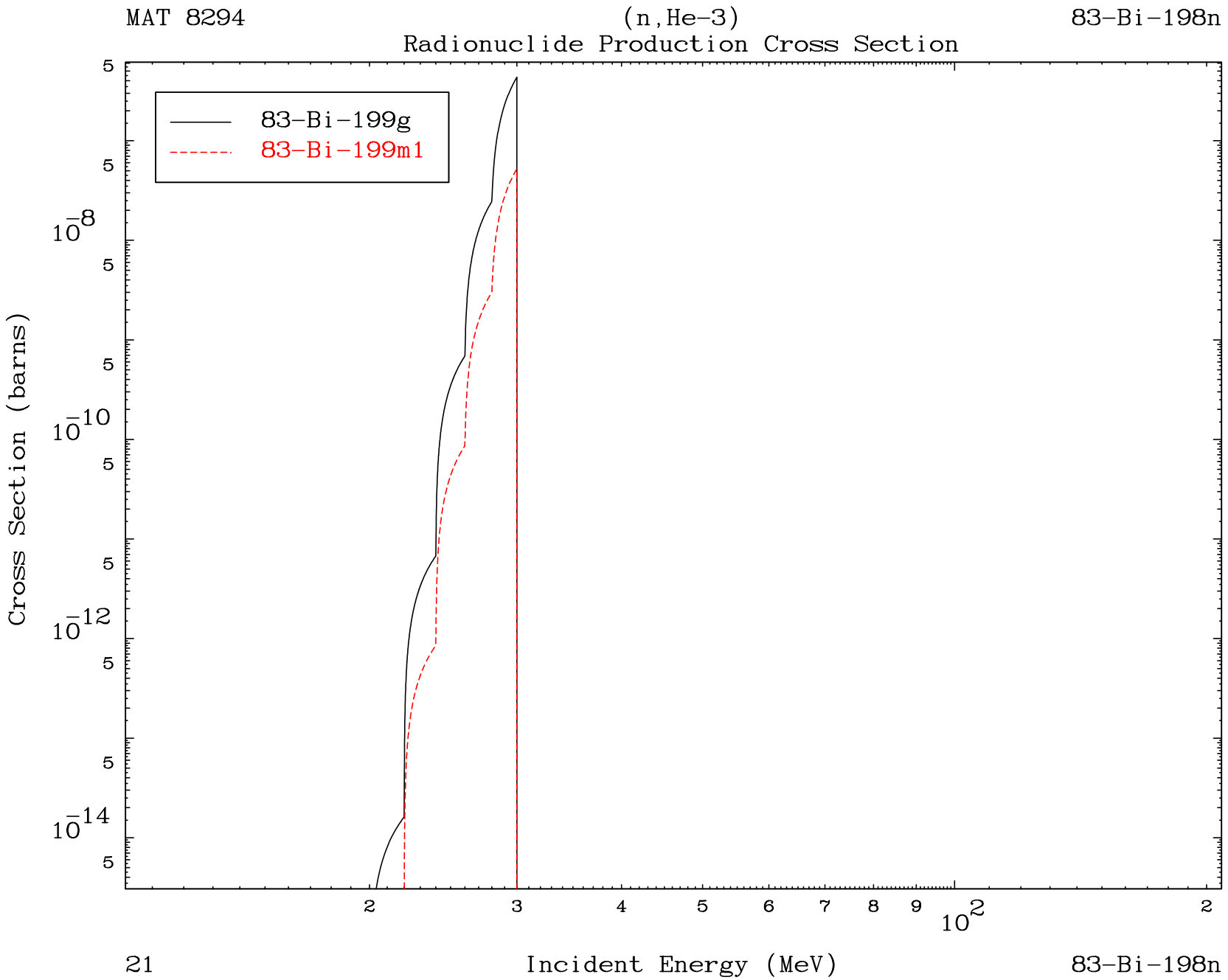

MAT 8294
(n,2n) p
83-Bi-198n
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
10^-7
10^-8
10^-9
10^-10
10^-11
5
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
83-Bi-198n

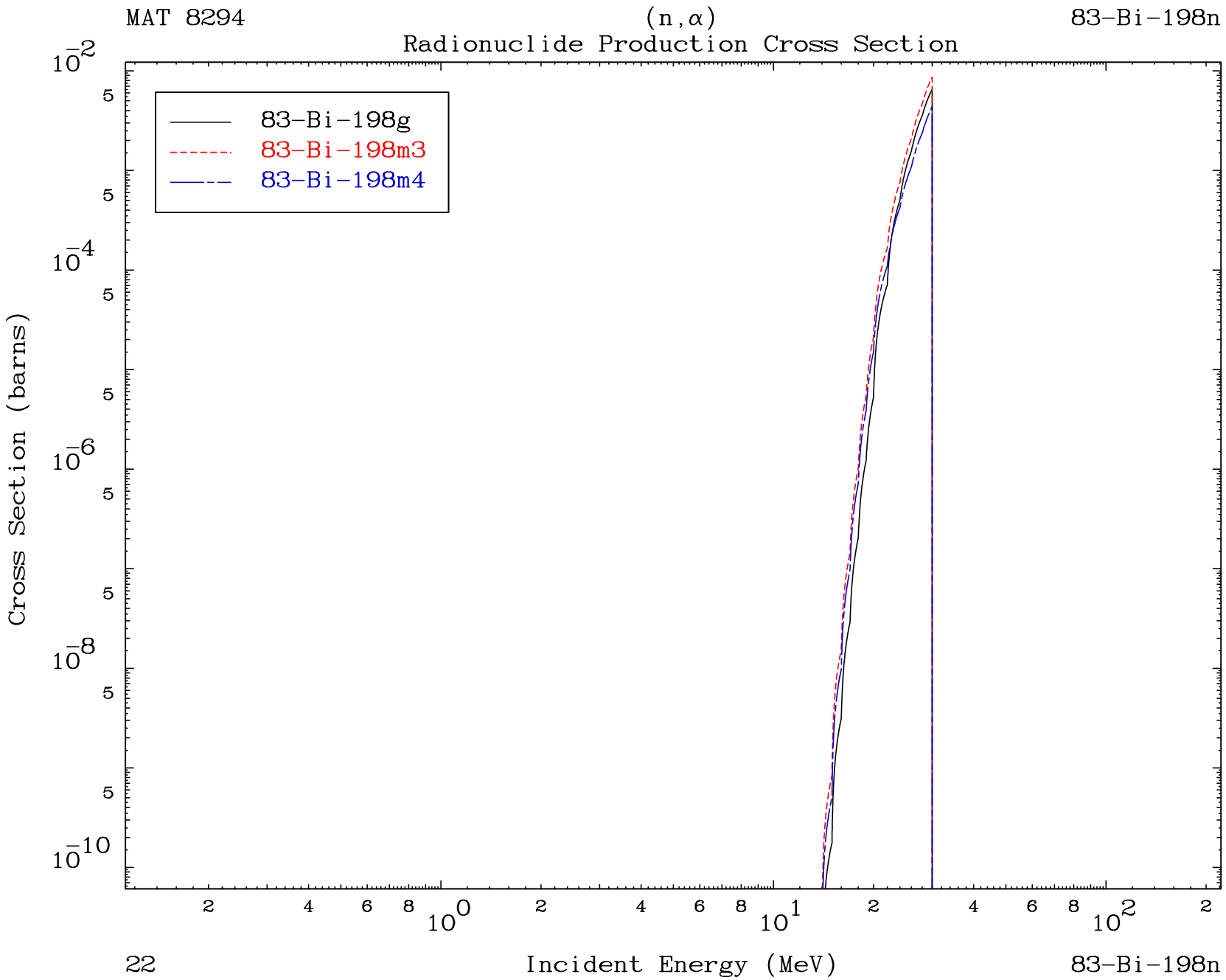

MAT 8294
(n,2n) p
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
83-Bi-198n

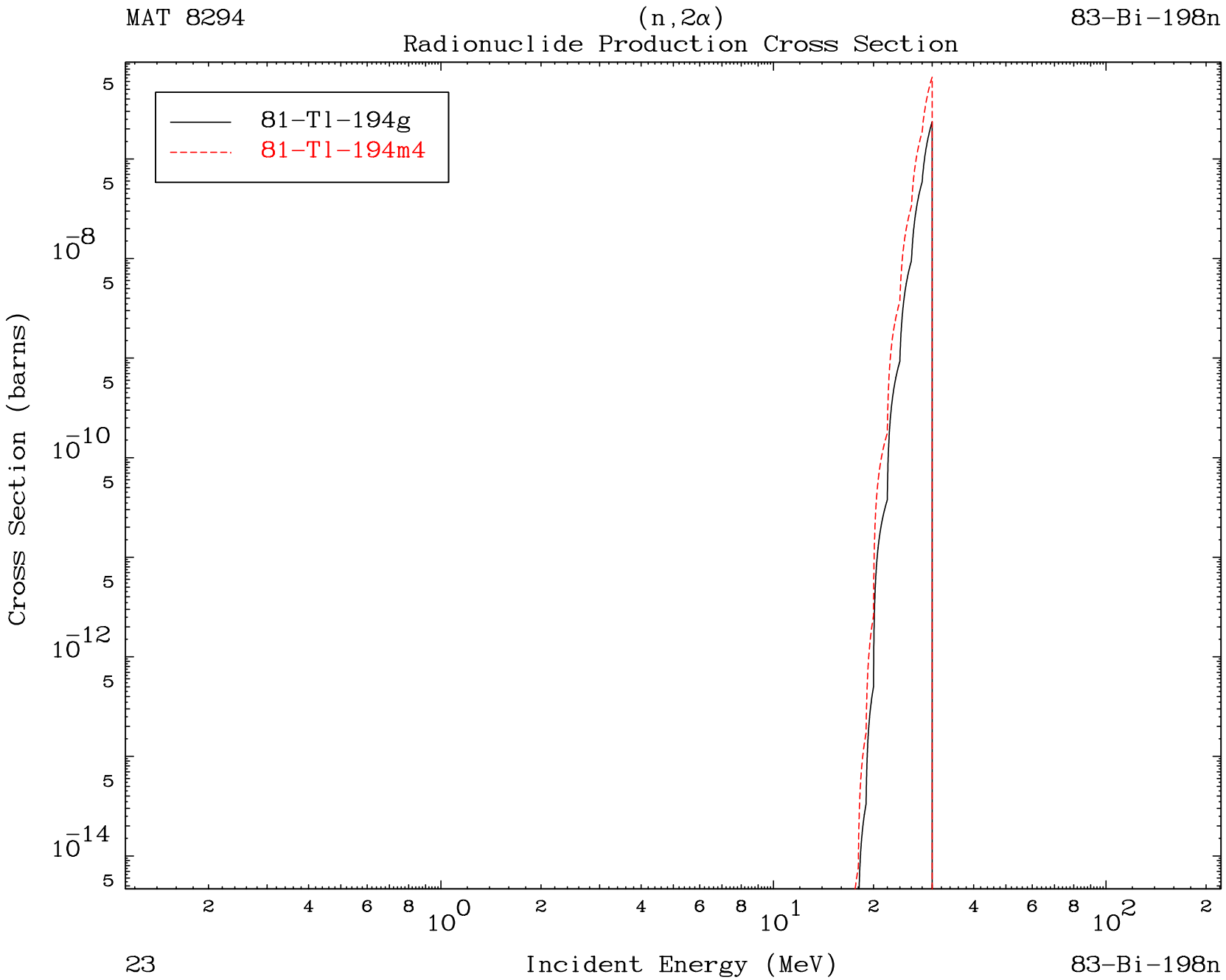

MAT 8294
(n,γ)
83-Bi-198n
Radionuclide Production Cross Section
85-At-202g
85-At-202m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
18
83-Bi-198n

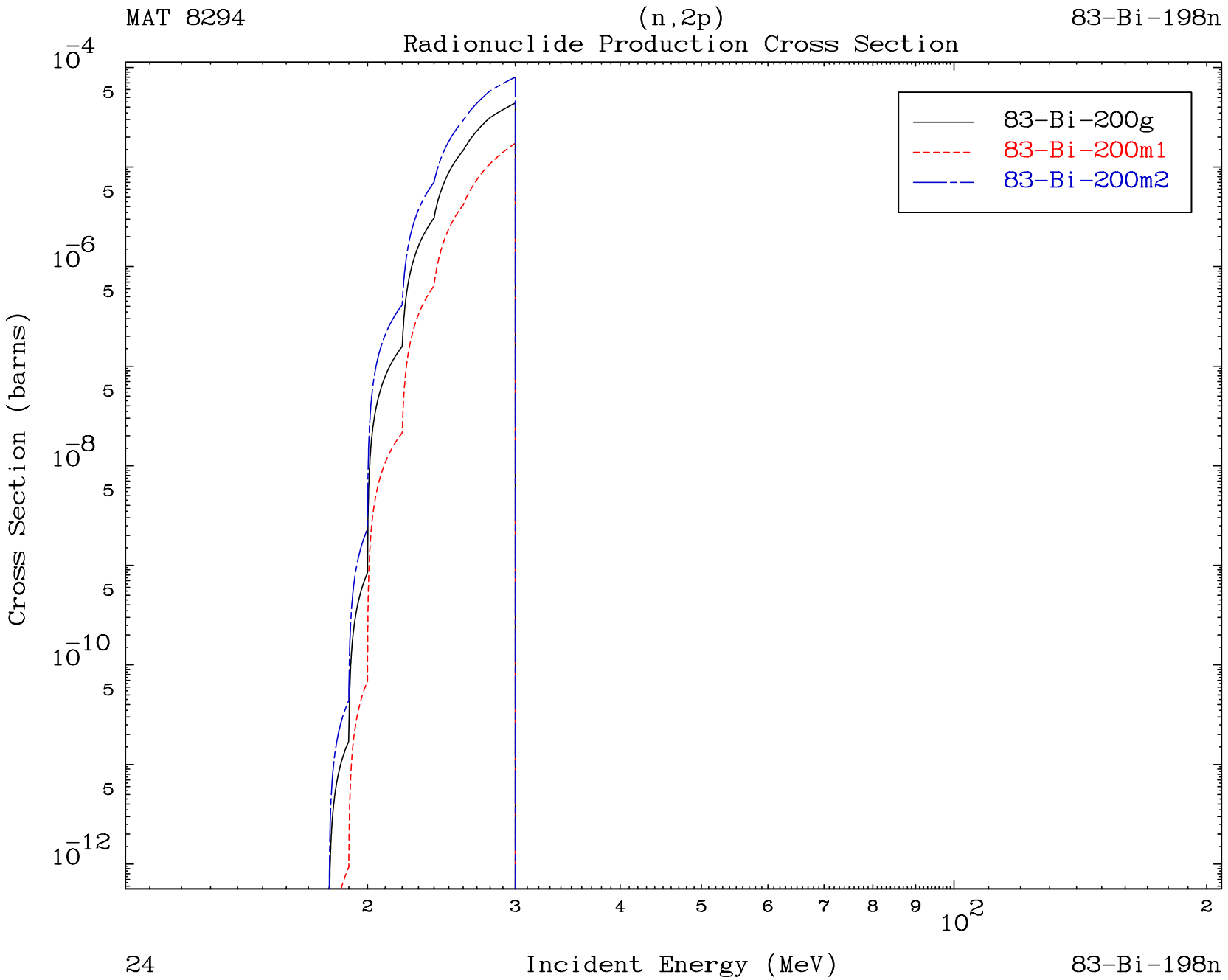

MAT 8294
(n,p)
83-Bi-198n
Radionuclide Production Cross Section
84-Po-201g
84-Po-201m3
Cross Section (barns)
Incident Energy (MeV)
19
83-Bi-198n

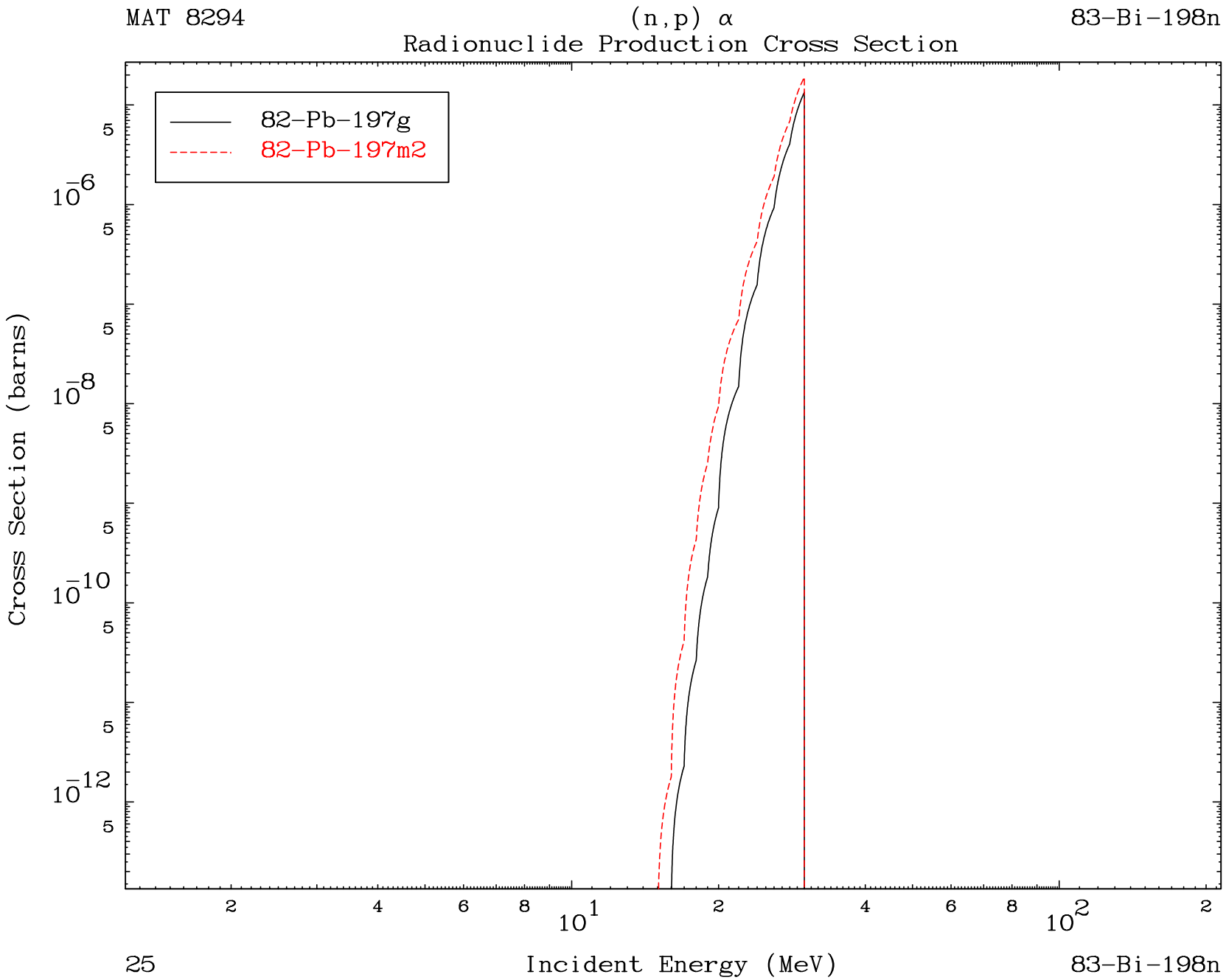

MAT 8294
(n,t)
83-Bi-198n
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
20
83-Bi-198n

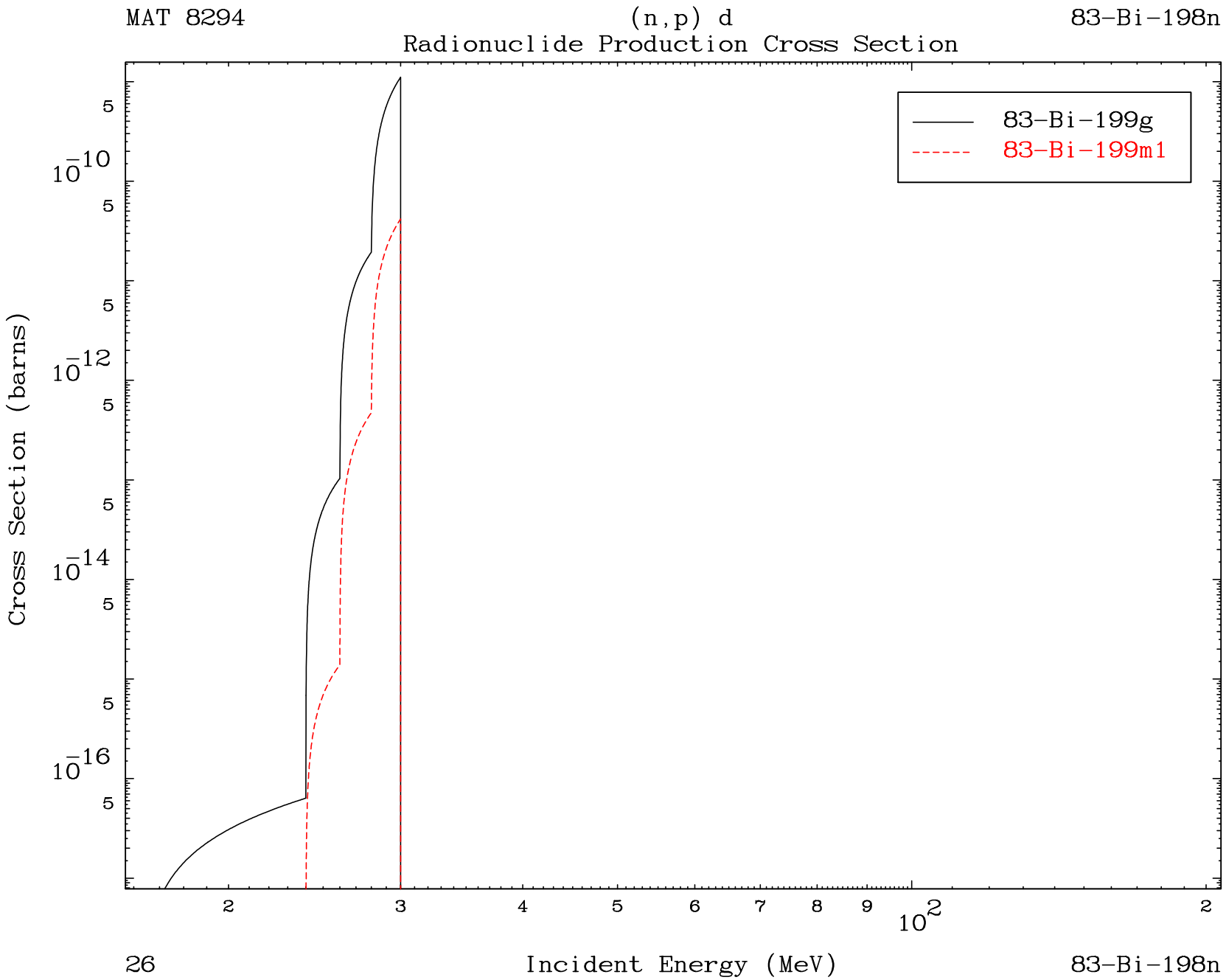

MAT 8294
(n,He-3)
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
21
83-Bi-198n


MAT 8294
(n,α)
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
Incident Energy (MeV)
22
83-Bi-198n


MAT 8294
(n,2α)
83-Bi-198n
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m4
Cross Section (barns)
Incident Energy (MeV)
23
83-Bi-198n


MAT 8294
(n,2p)
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-200g
83-Bi-200m1
83-Bi-200m2
Cross Section (barns)
Incident Energy (MeV)
24
83-Bi-198n


MAT 8294
(n,p) α
83-Bi-198n
Radionuclide Production Cross Section
82-Pb-197g
82-Pb-197m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
4
6
8
10^1
10^2
25
Incident Energy (MeV)
83-Bi-198n


MAT 8294
(n,p) d
83-Bi-198n
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
5
6
7
8
9
10^2
2
26
Incident Energy (MeV)
83-Bi-198n