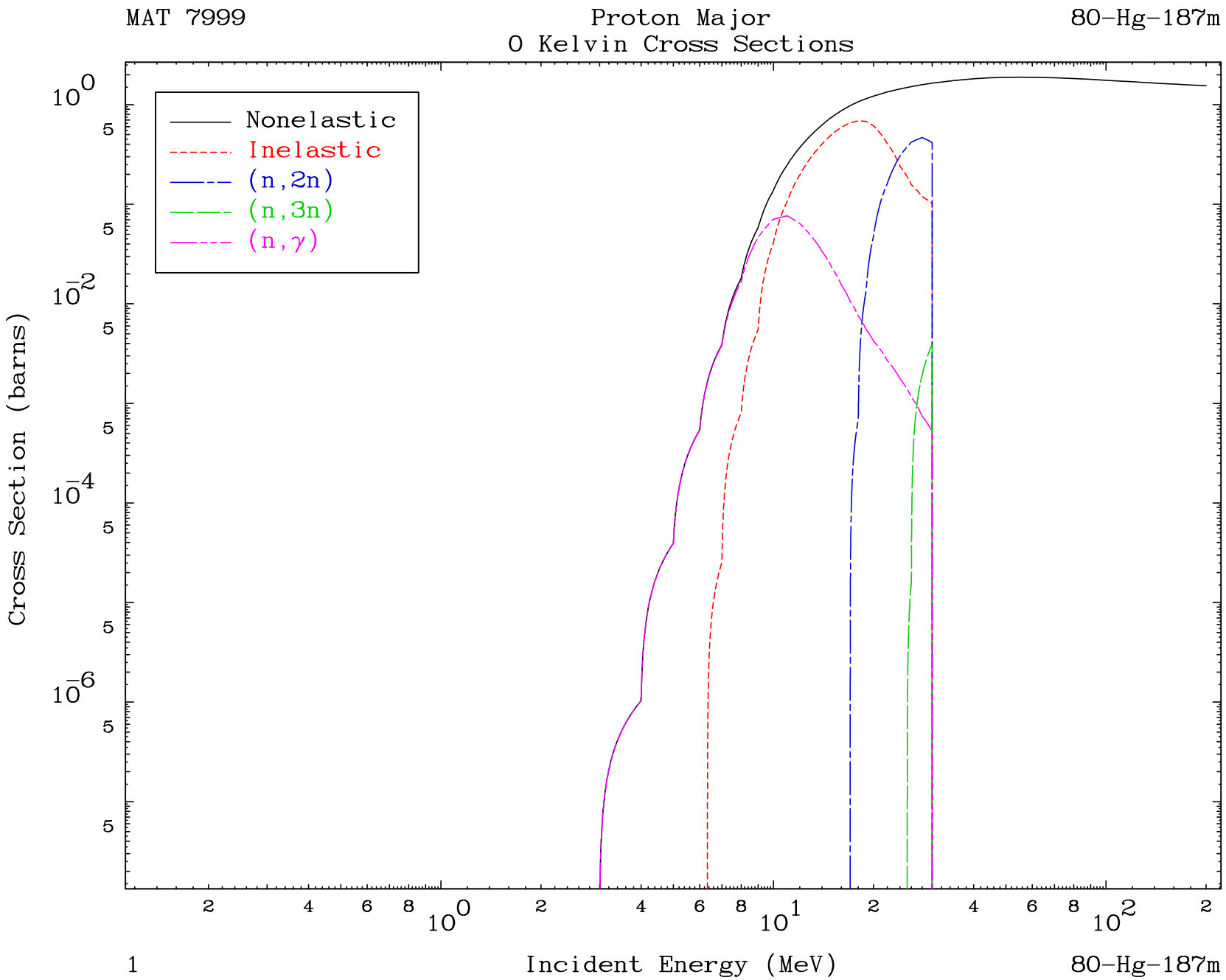
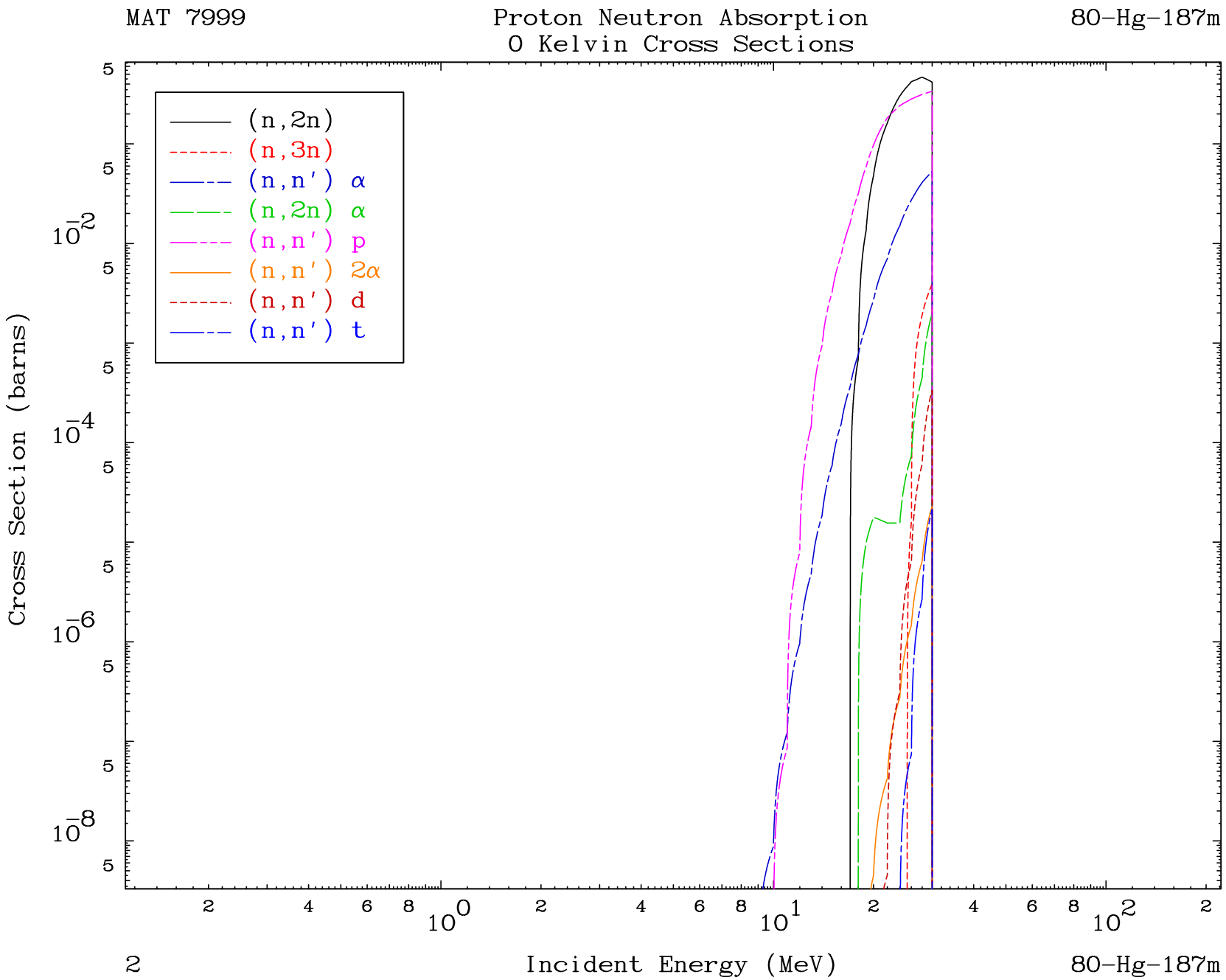
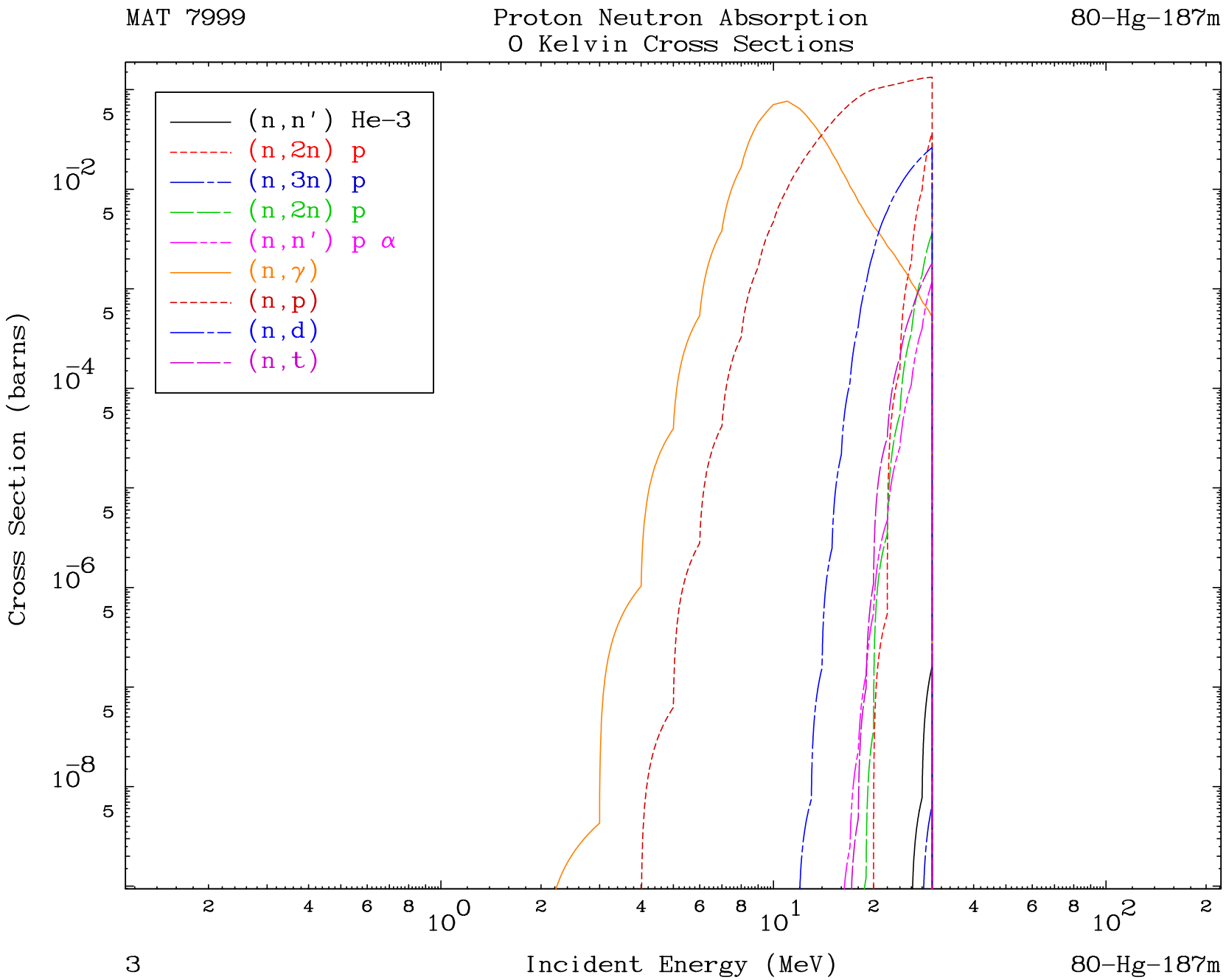
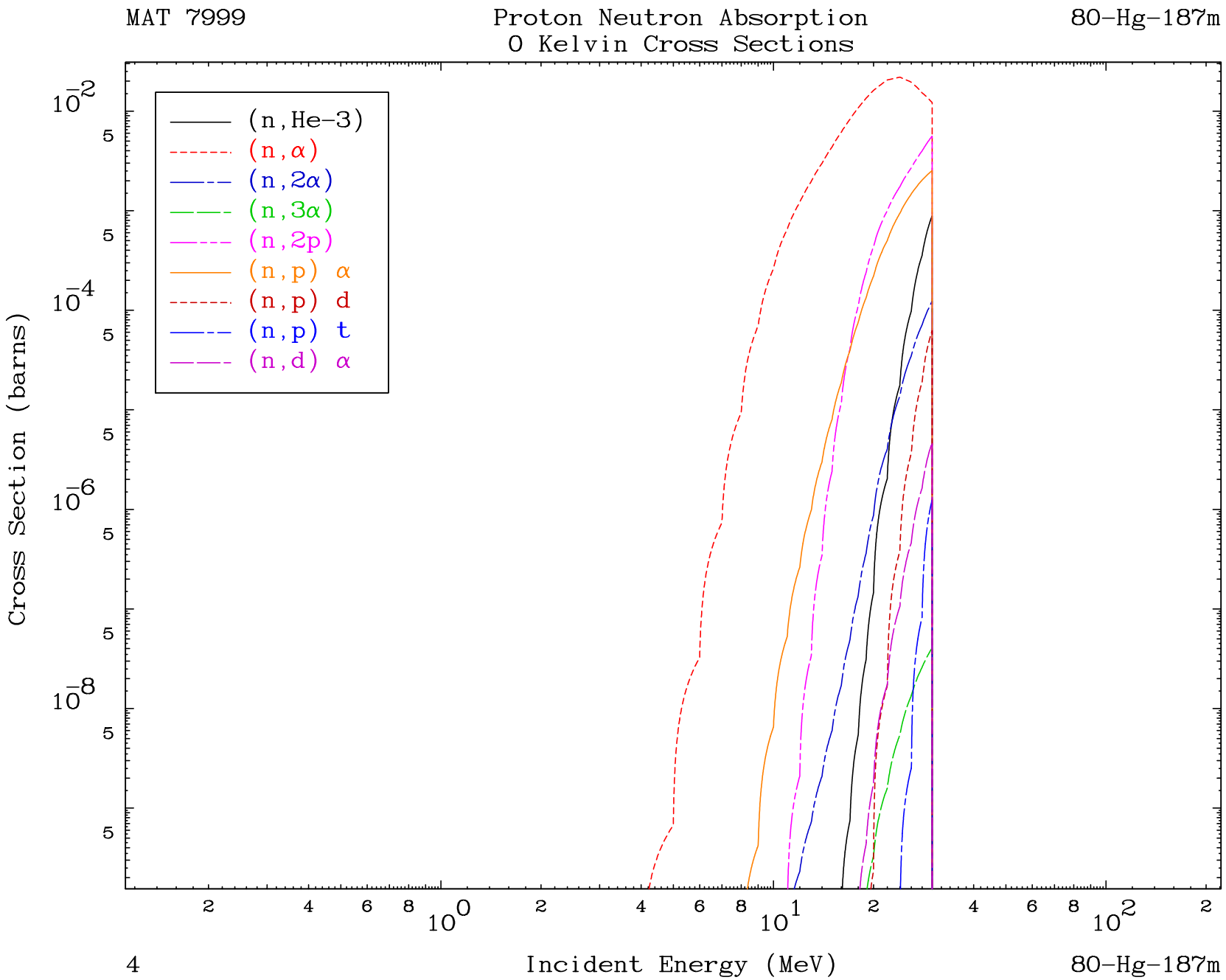
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

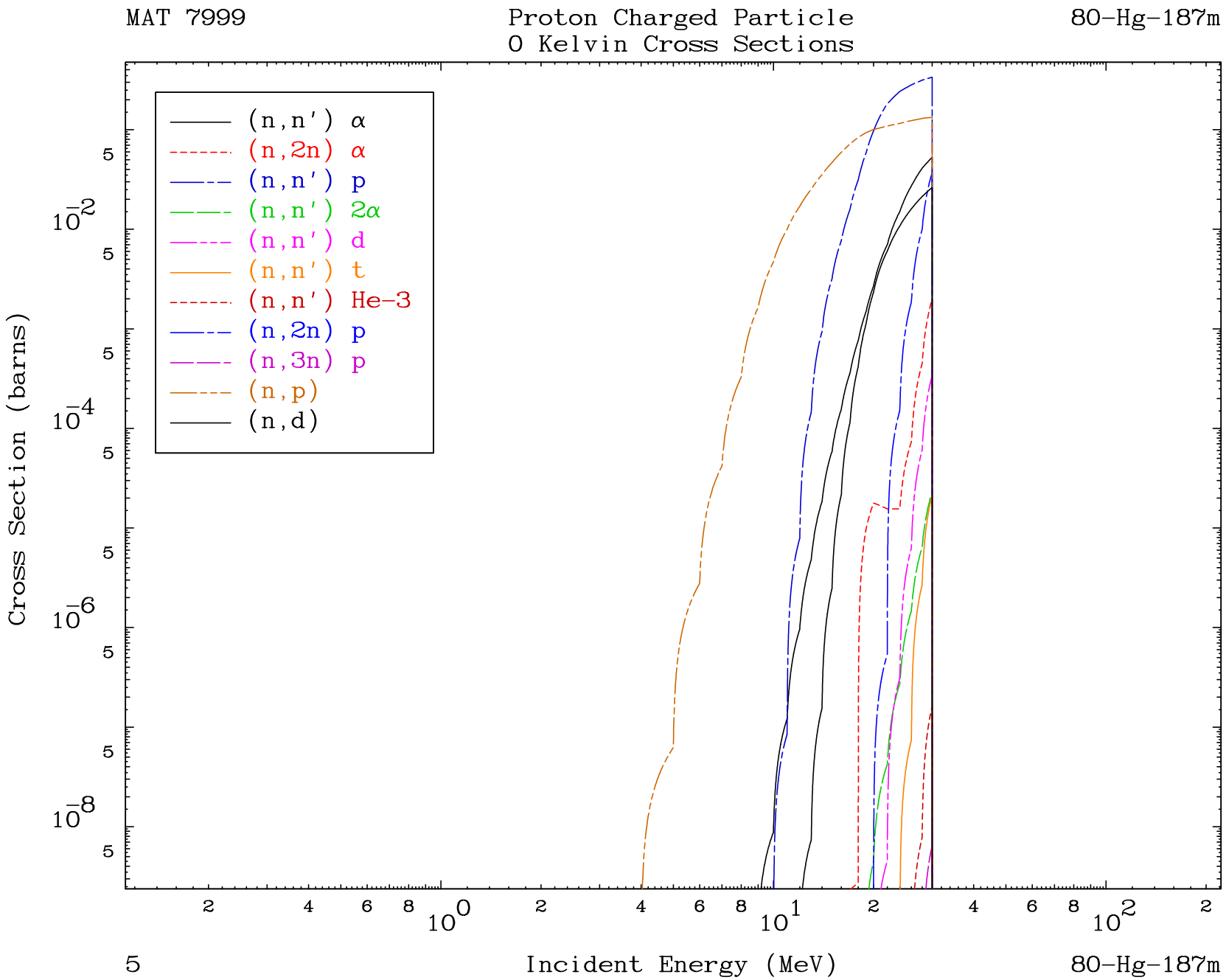
Press Mouse Button to Start

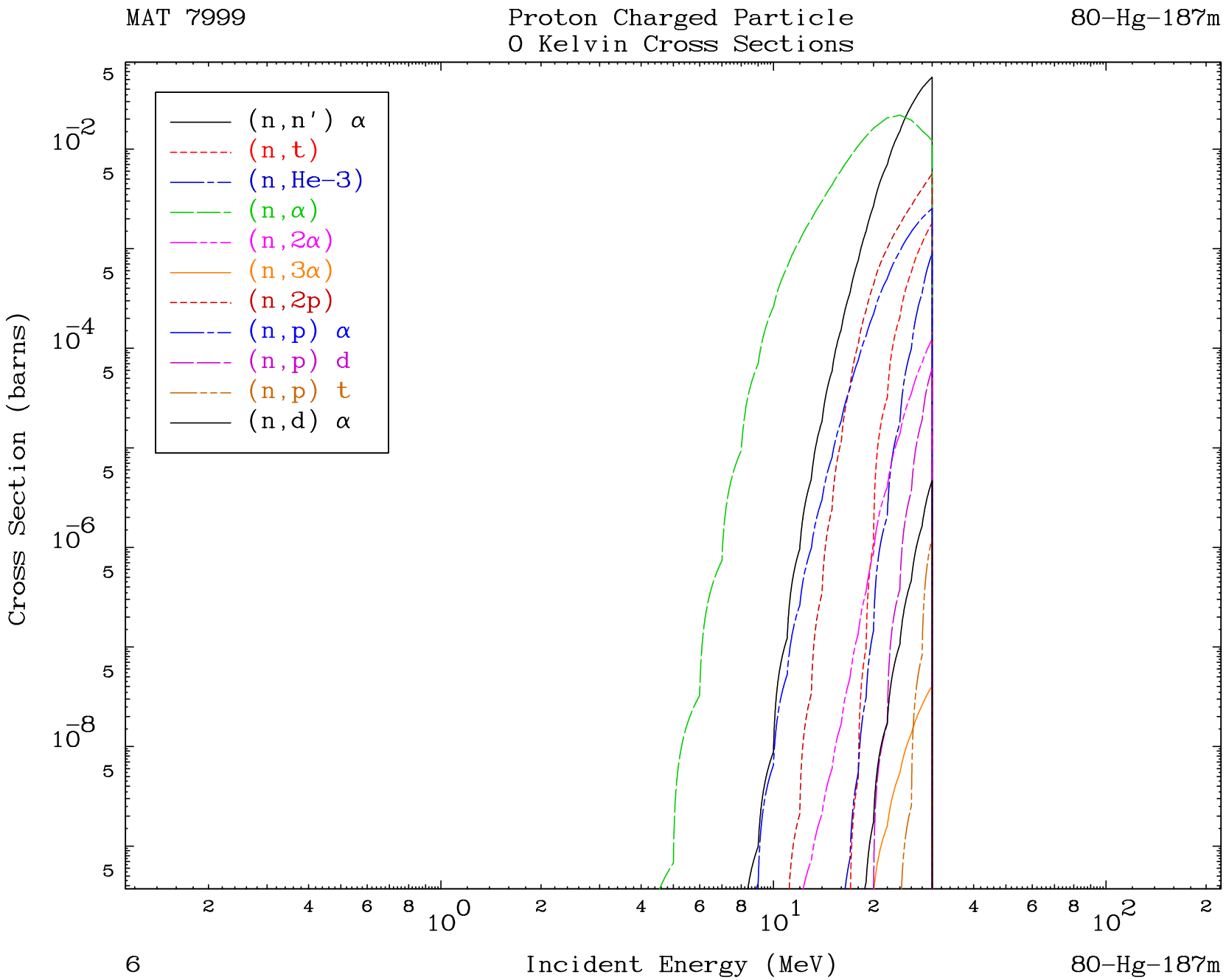

MAT 7999
Proton Major
80-Hg-187m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
80-Hg-187m
1

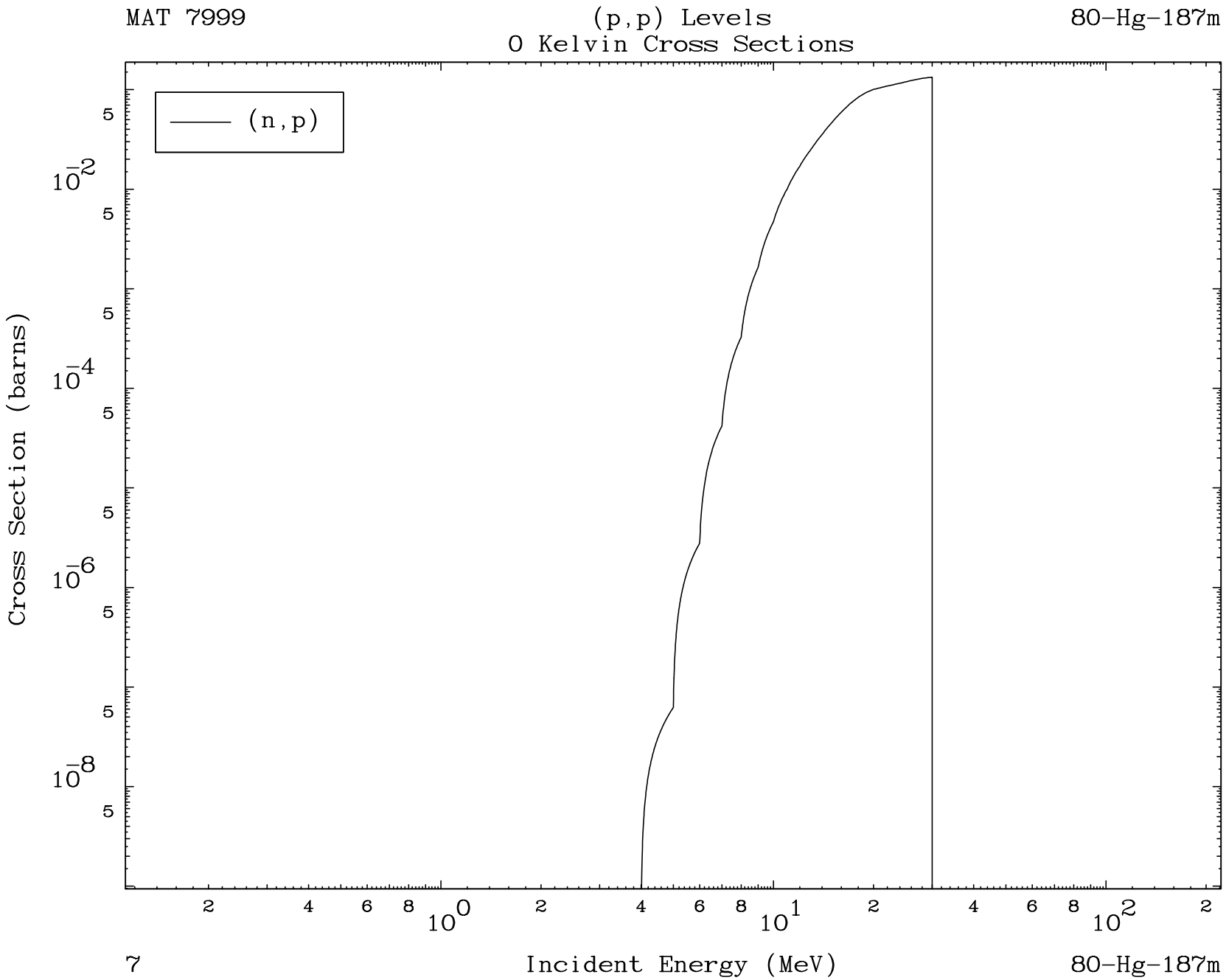

MAT 7999
Proton Neutron Absorption
0 Kelvin Cross Sections
80-Hg-187m
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
80-Hg-187m

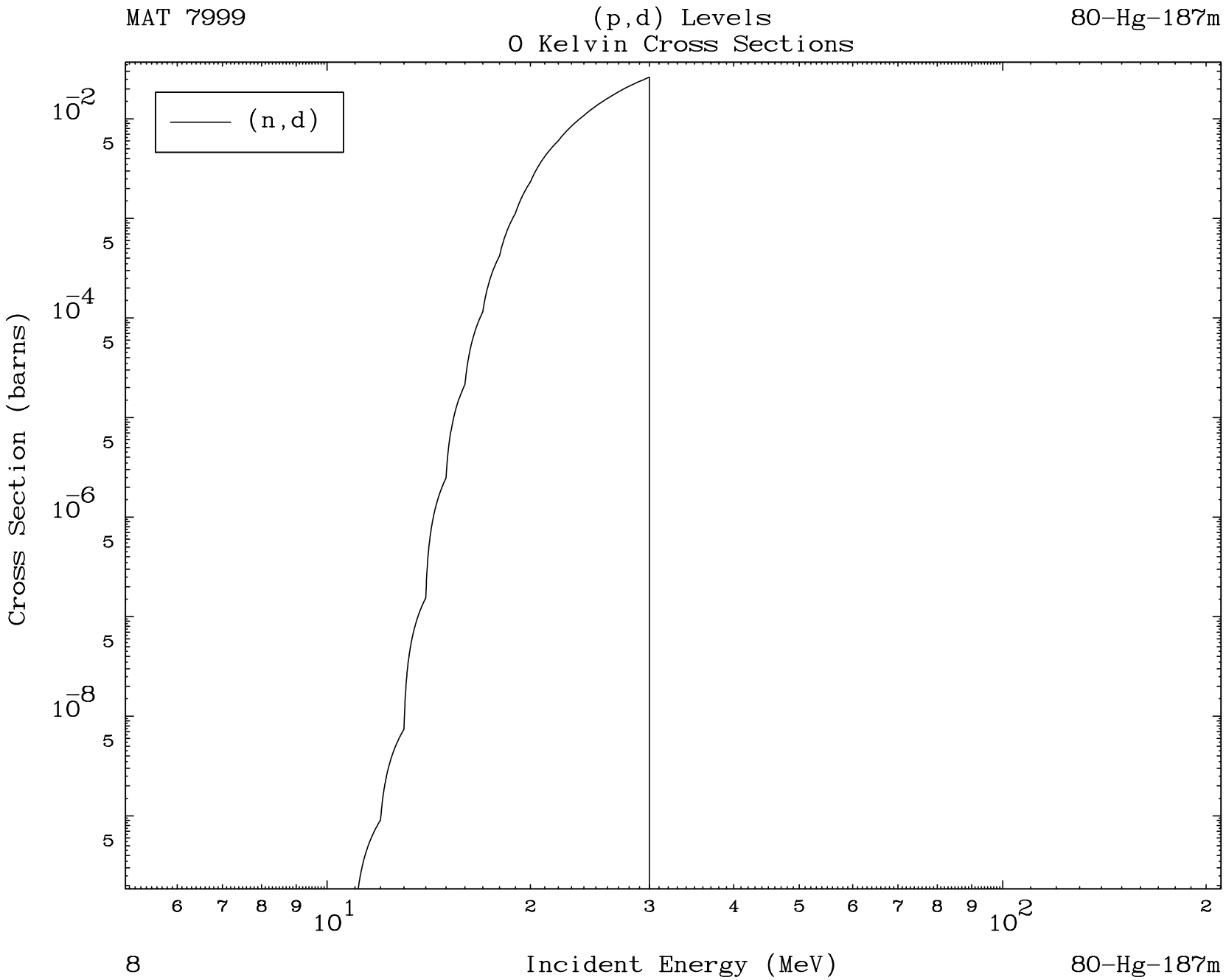

MAT 7999
Proton Neutron Absorption
0 Kelvin Cross Sections
80-Hg-187m
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
80-Hg-187m

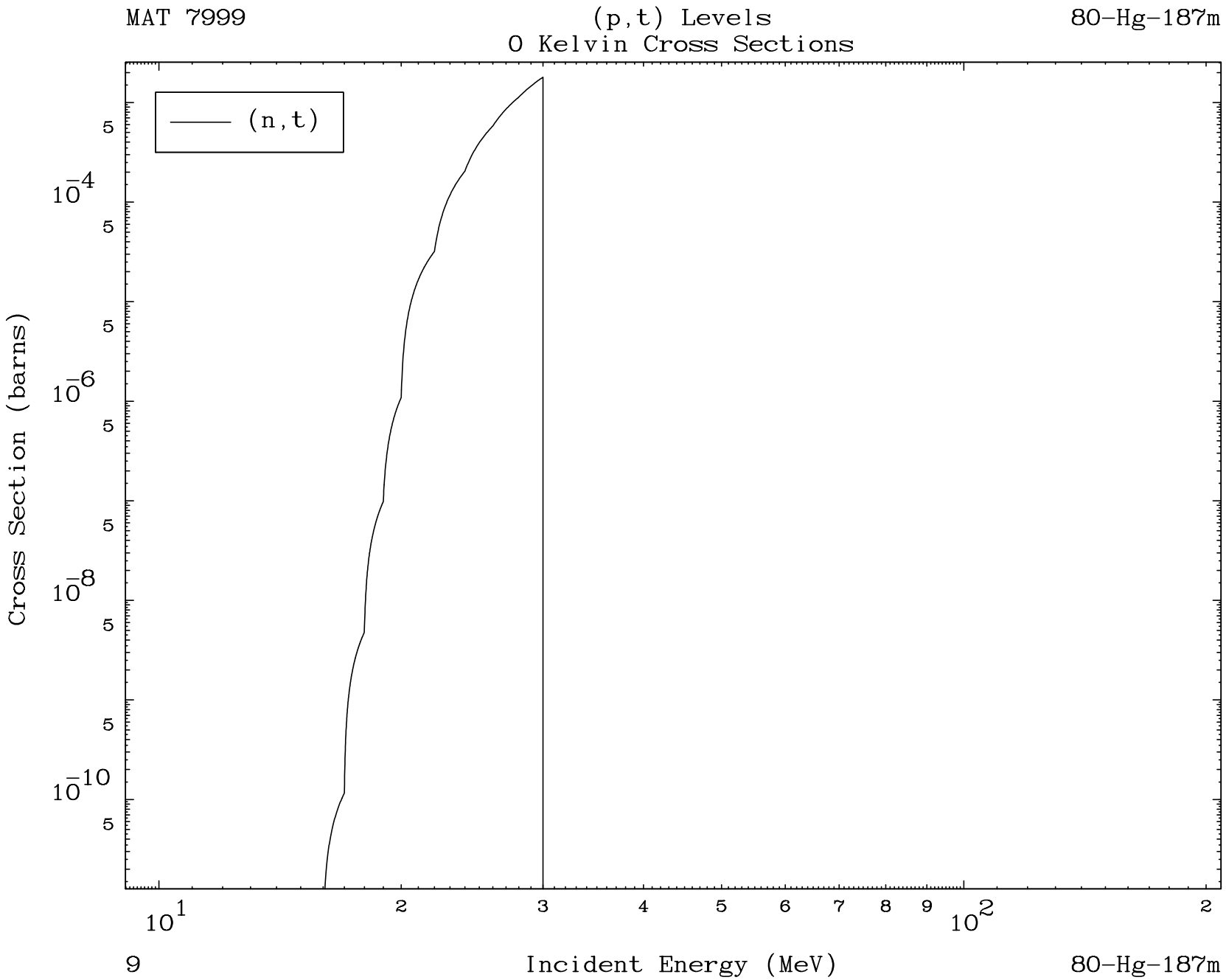

MAT 7999
Proton Neutron Absorption
0 Kelvin Cross Sections
80-Hg-187m
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
80-Hg-187m

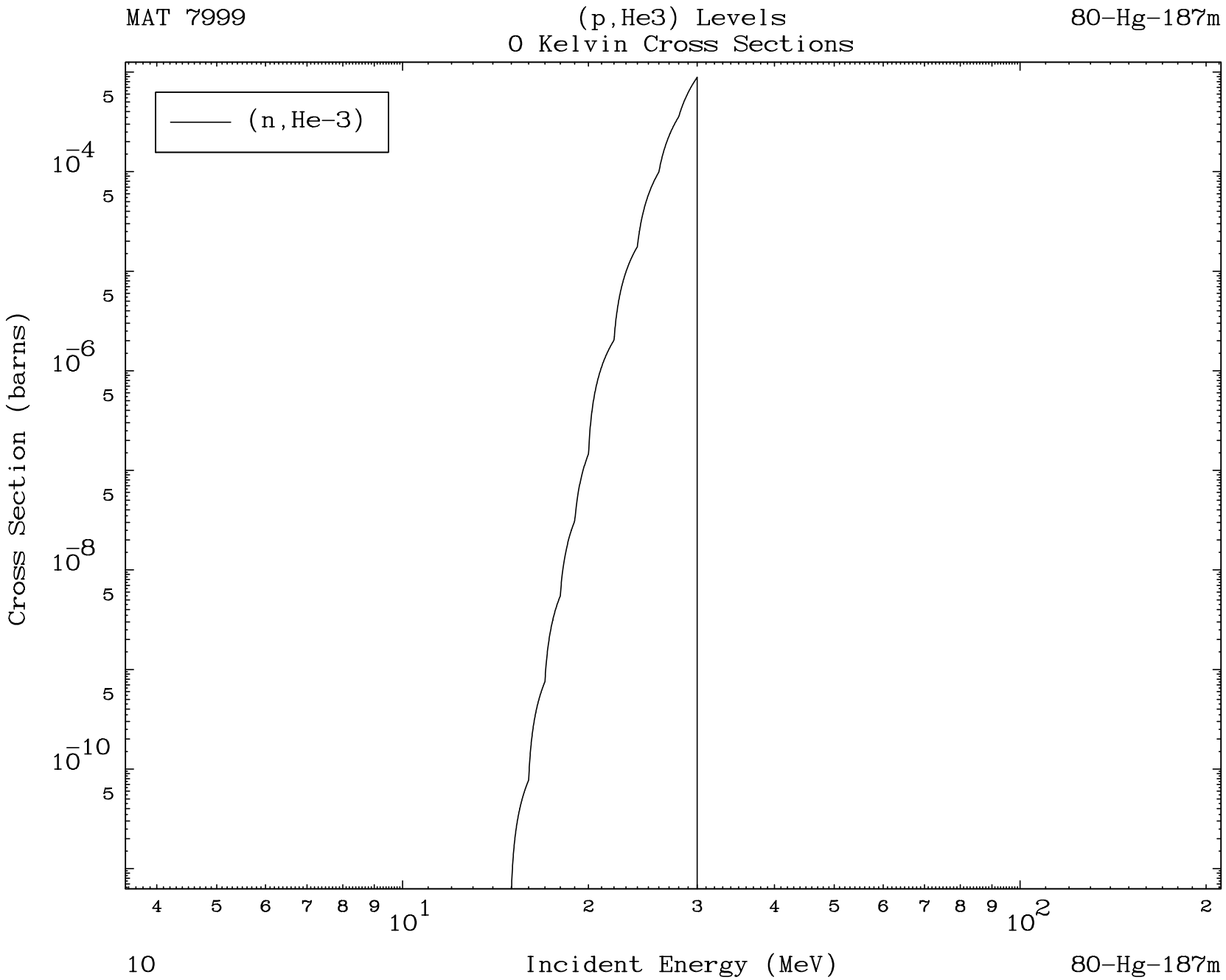

MAT 7999
Proton Charged Particle
0 Kelvin Cross Sections
80-Hg-187m
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
5
80-Hg-187m

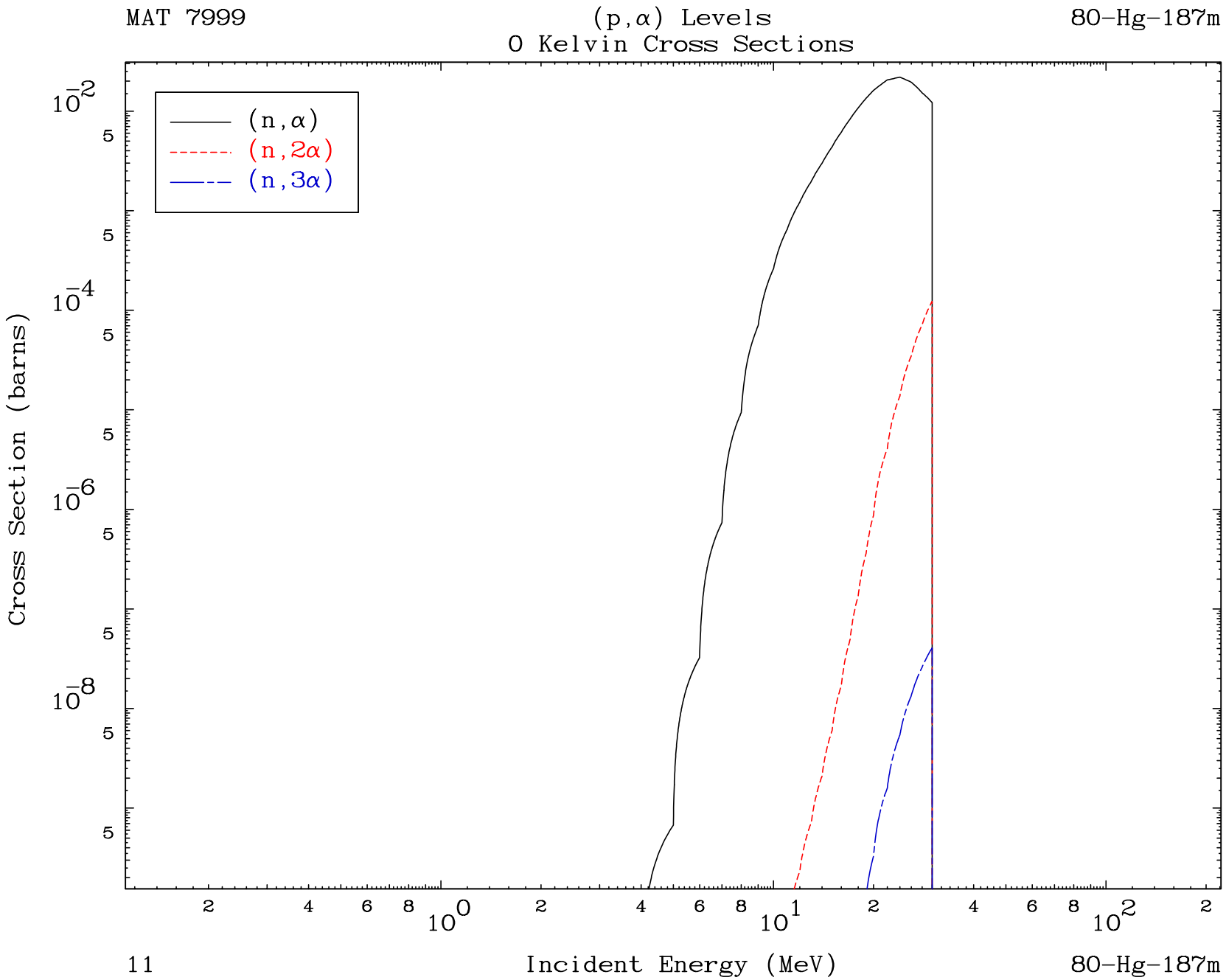

MAT 7999
Proton Charged Particle
0 Kelvin Cross Sections
80-Hg-187m
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
80-Hg-187m

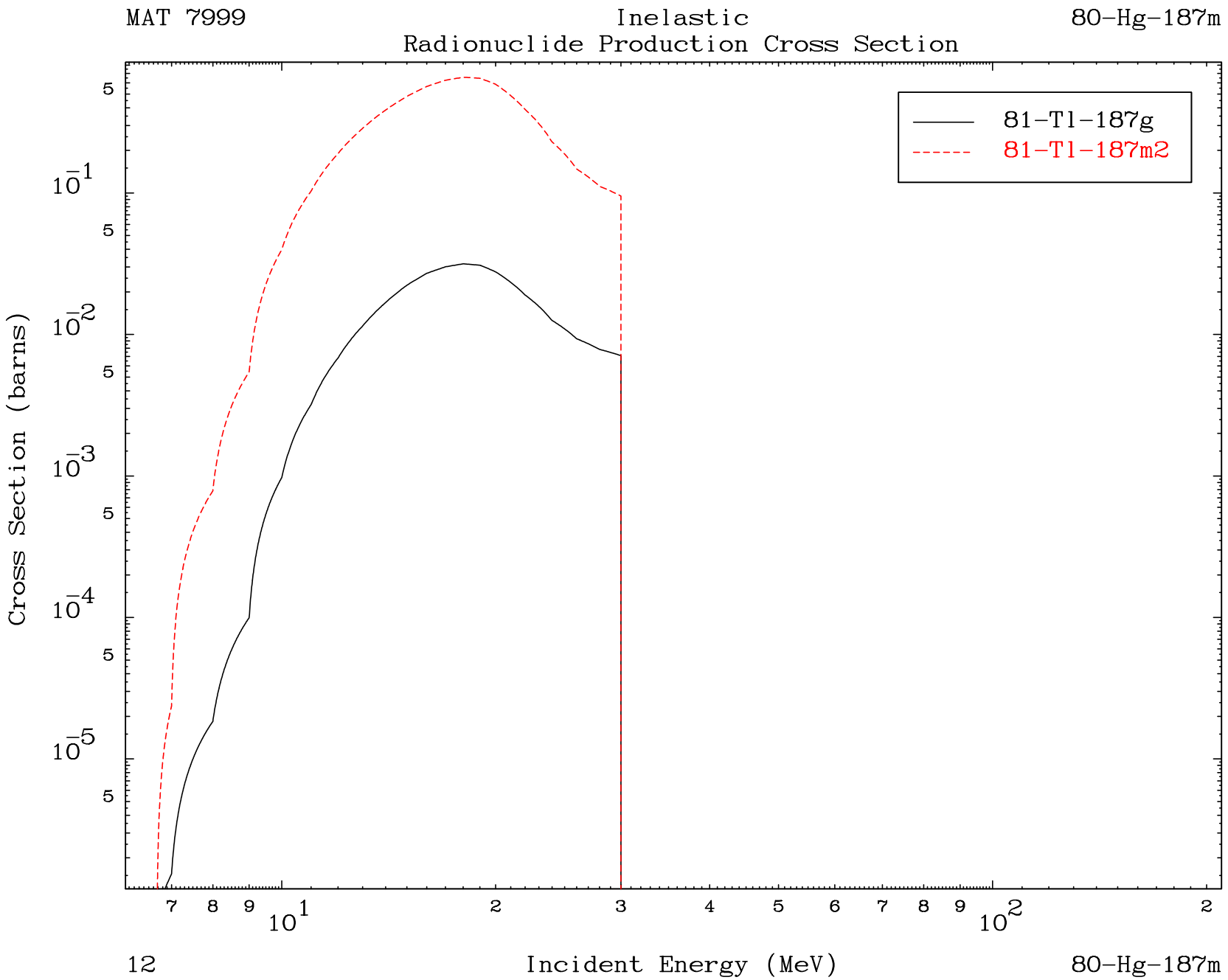

MAT 7999
(p,p) Levels
80-Hg-187m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
7
80-Hg-187m

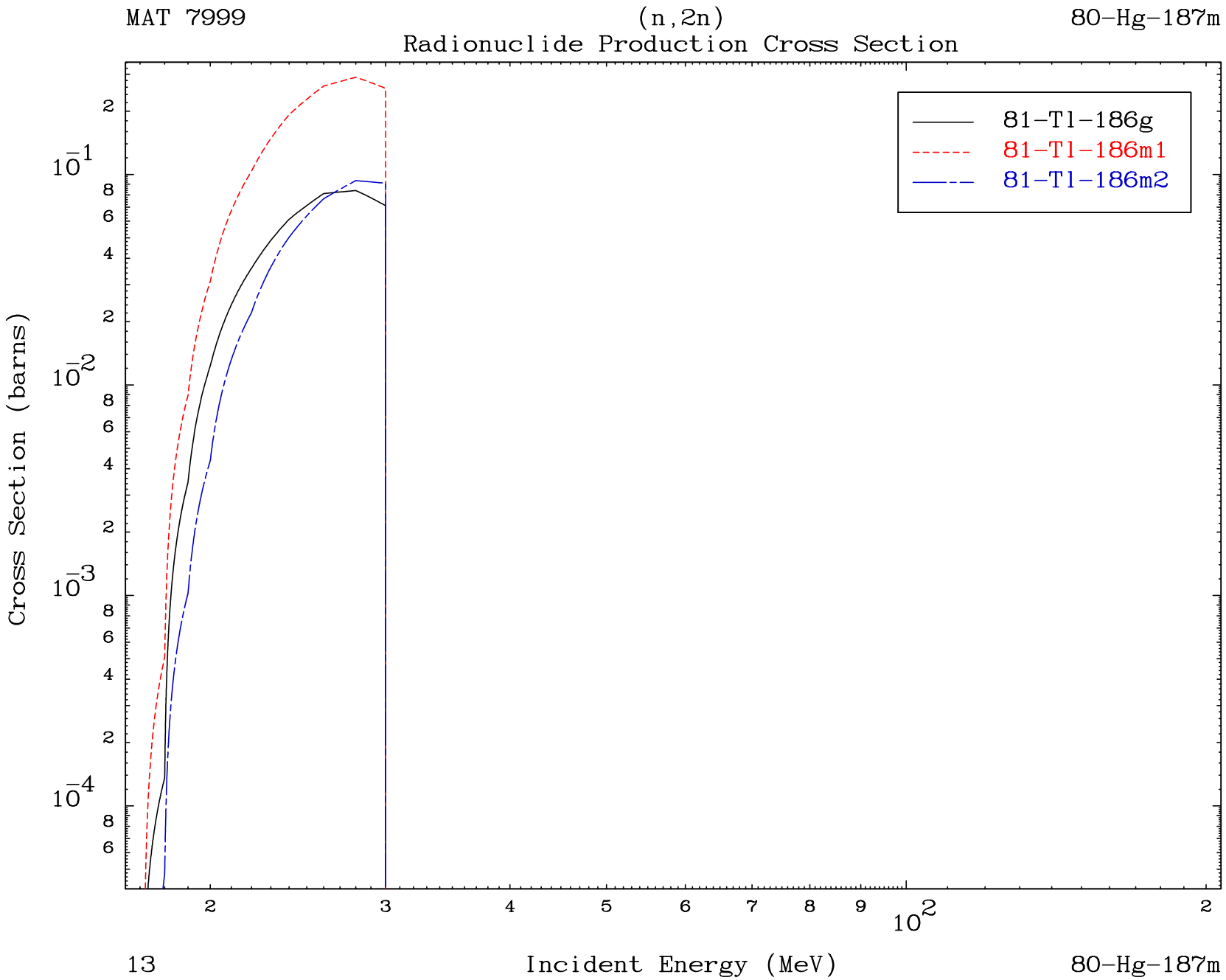

MAT 7999
(p,d) Levels
80-Hg-187m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
80-Hg-187m

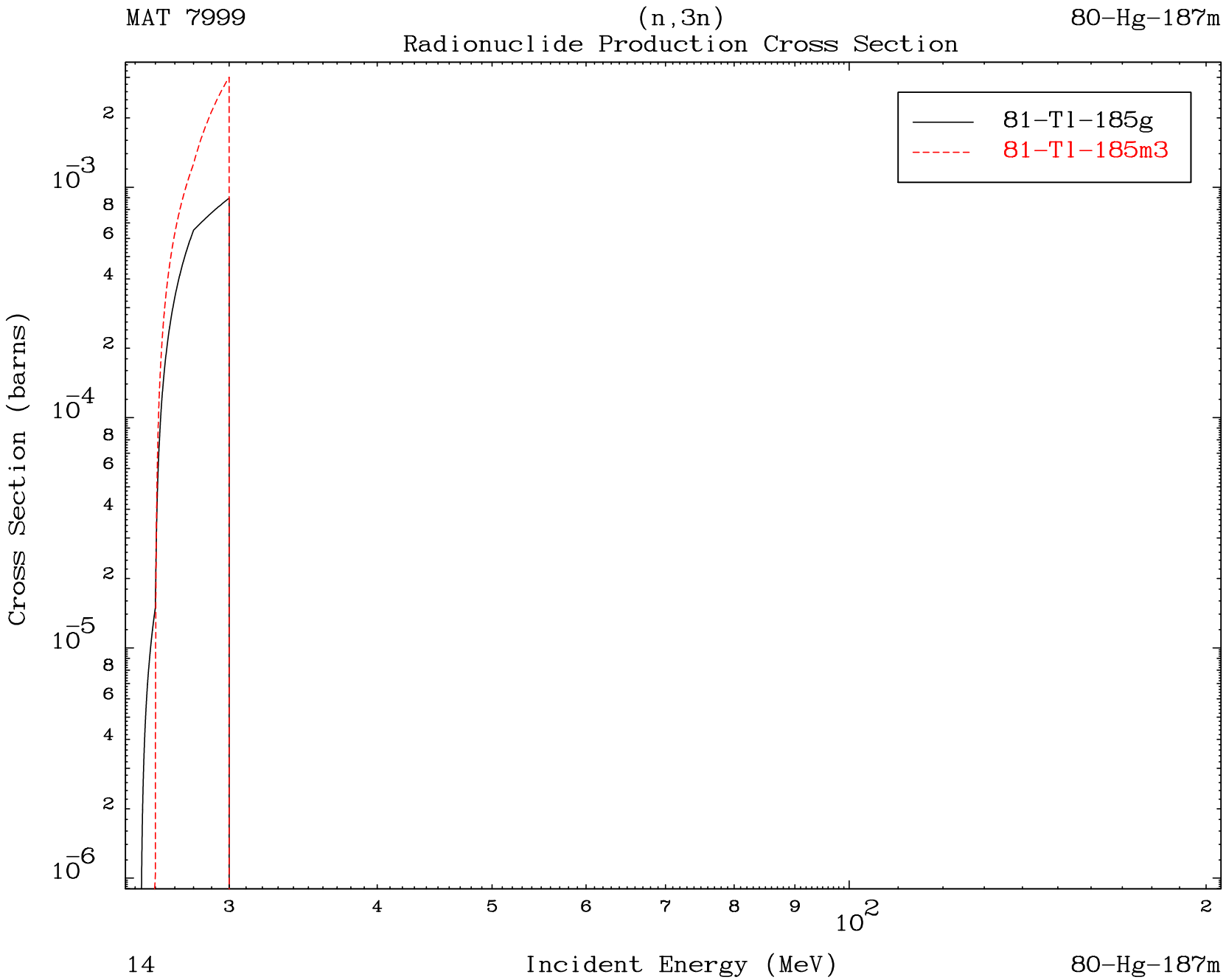

MAT 7999
(p,t) Levels
80-Hg-187m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
9
80-Hg-187m

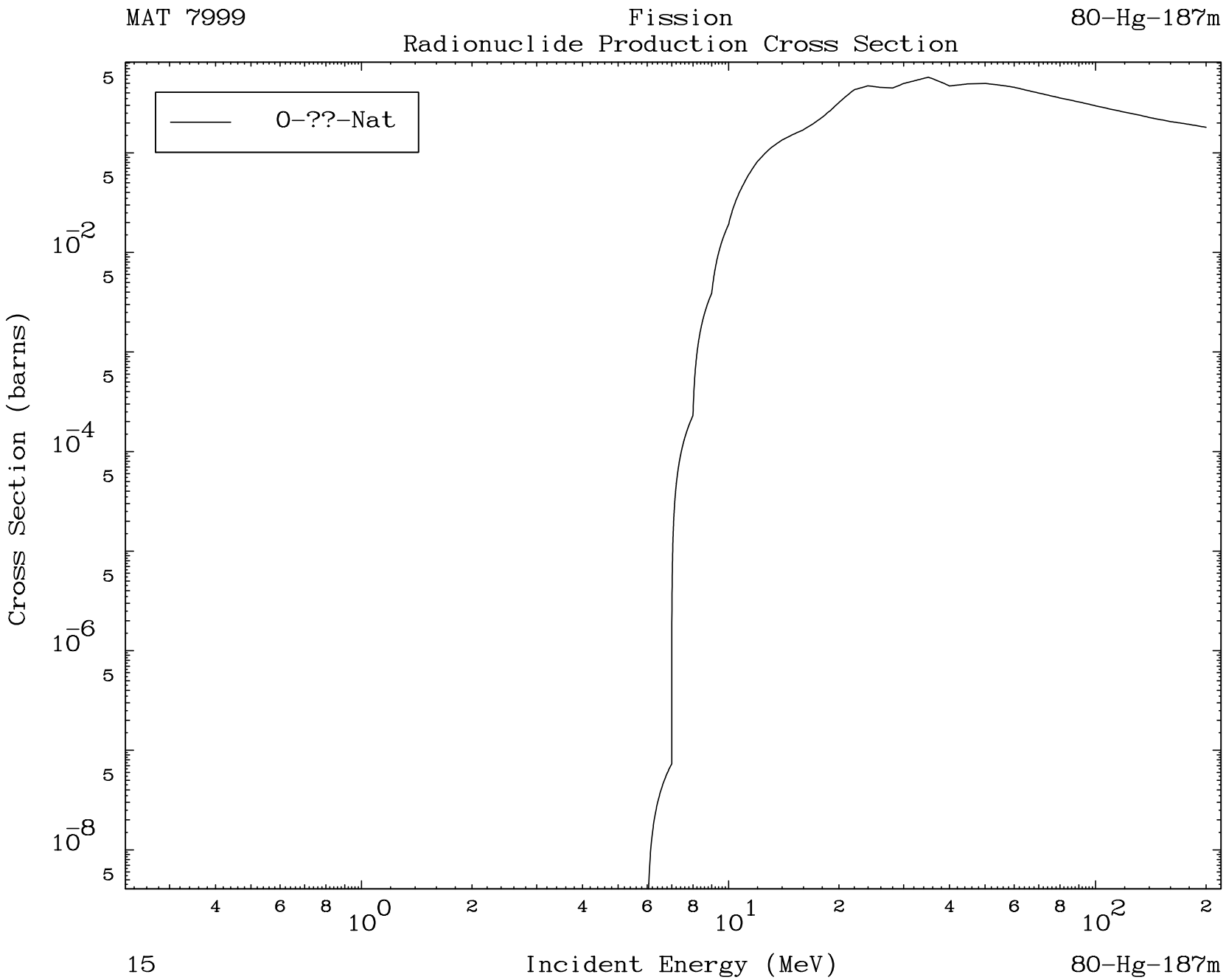

MAT 7999
(p,He3) Levels
80-Hg-187m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
80-Hg-187m
10

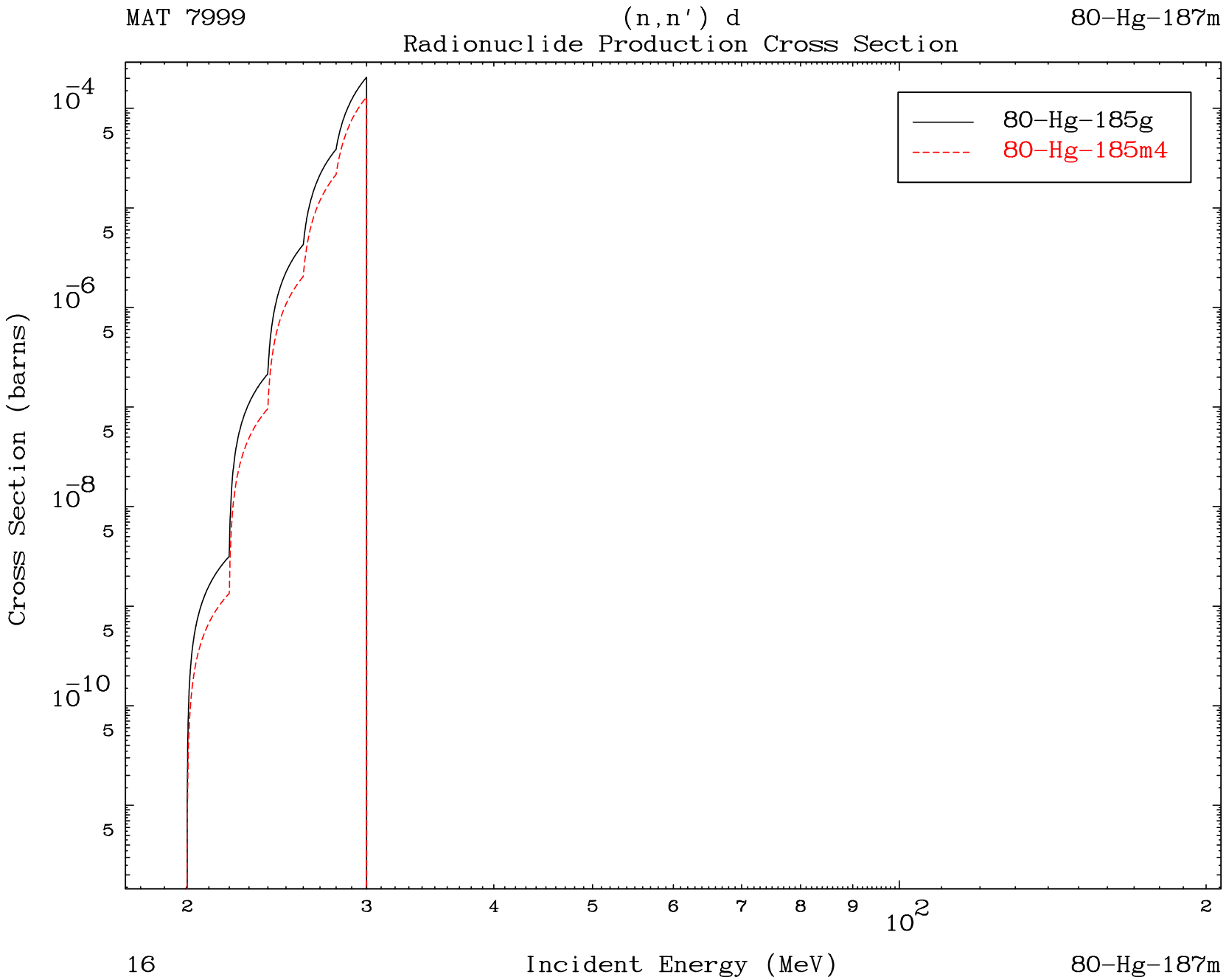

MAT 7999
(p,α) Levels
80-Hg-187m
0 Kelvin Cross Sections
(n,α)
(n,2α)
(n,3α)
Cross Section (barns)
10-2
10-4
10-6
10-8
10 0
10 1
10 2
Incident Energy (MeV)
11
80-Hg-187m

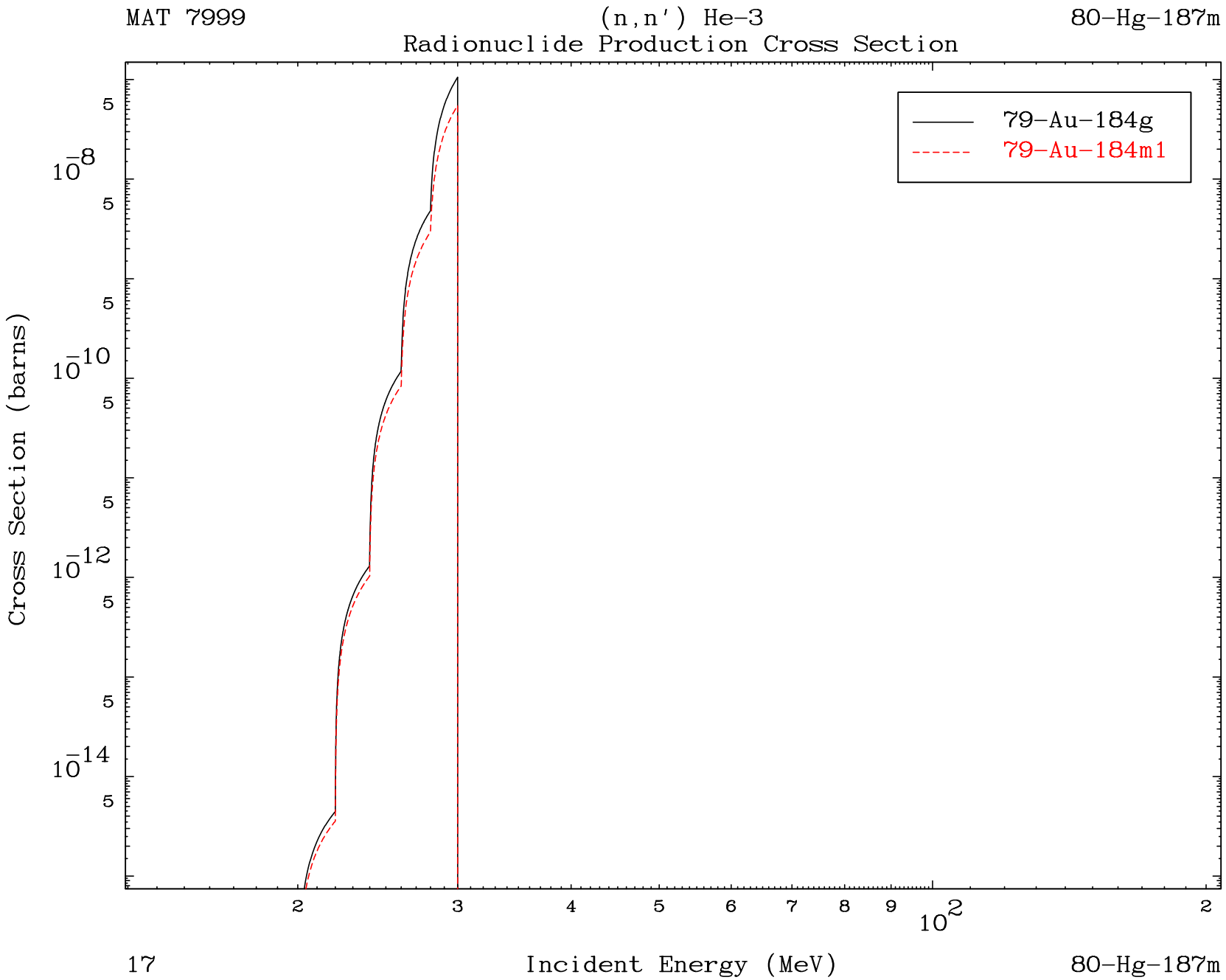

MAT 7999
Inelastic
80-Hg-187m
Radionuclide Production Cross Section
81-Tl-187g
81-Tl-187m2
Cross Section (barns)
Incident Energy (MeV)
12
80-Hg-187m

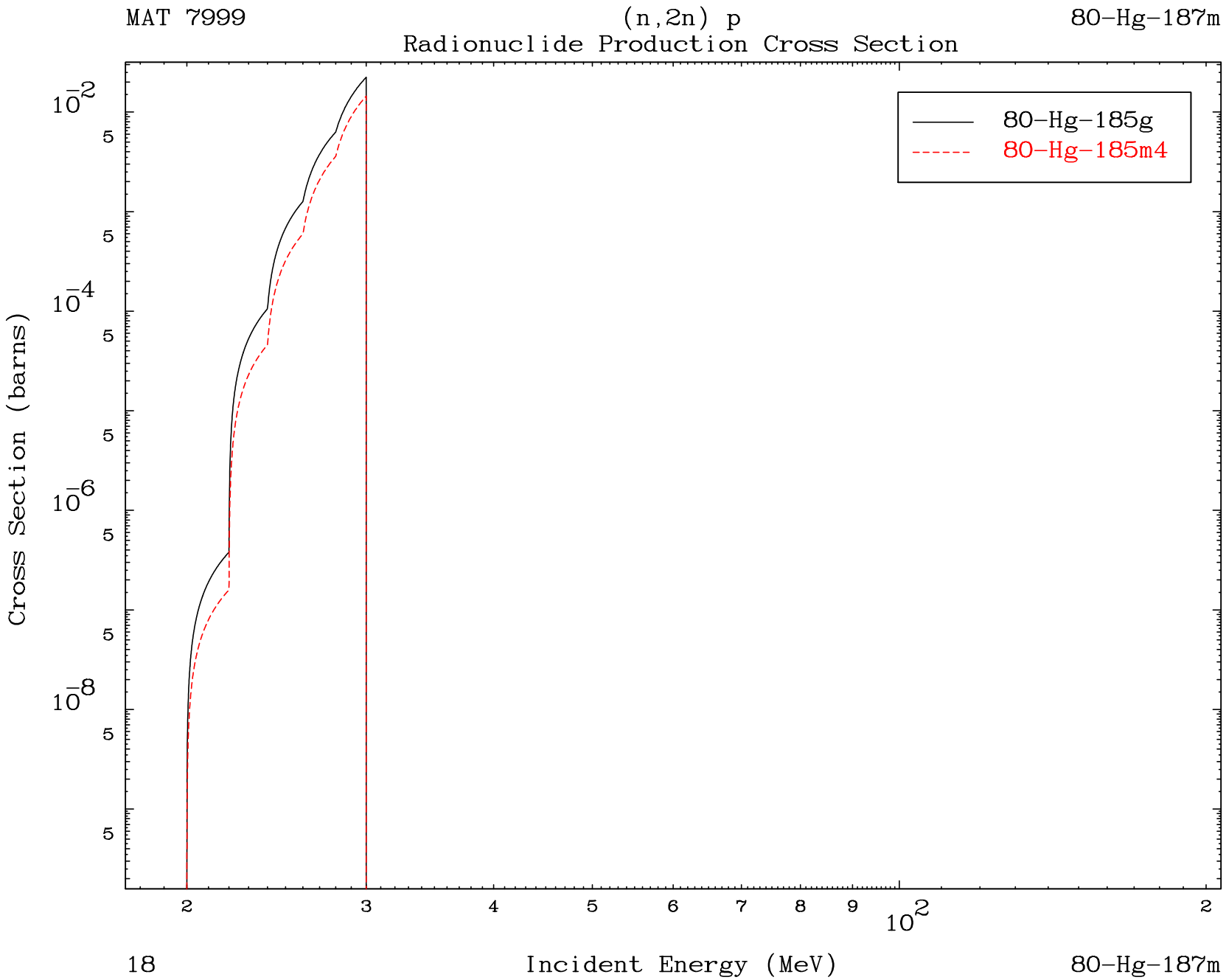

MAT 7999
(n,2n)
80-Hg-187m
Radionuclide Production Cross Section
81-Tl-186g
81-Tl-186m1
81-Tl-186m2
Cross Section (barns)
Incident Energy (MeV)
13
80-Hg-187m

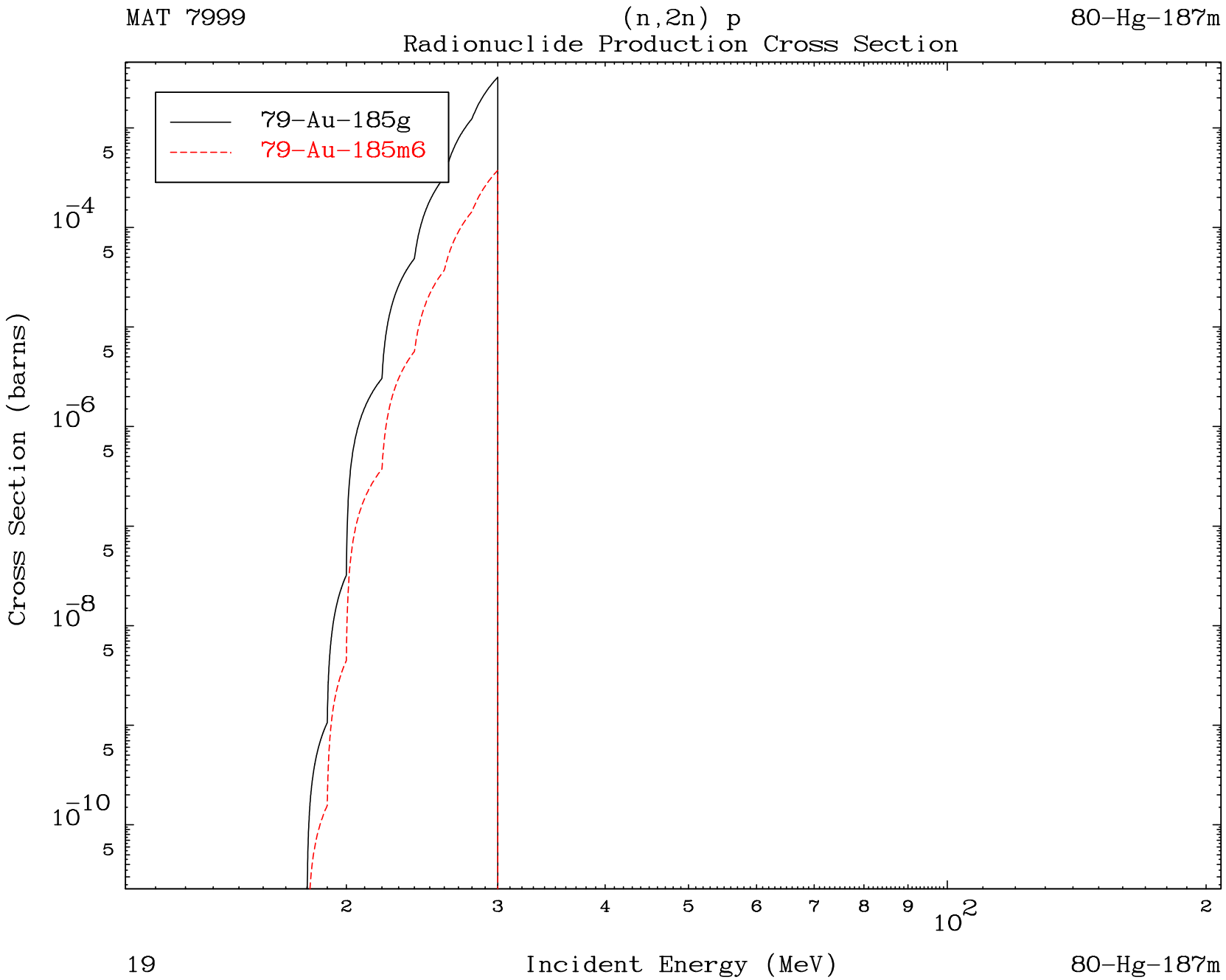

MAT 7999
(n,3n)
80-Hg-187m
Radionuclide Production Cross Section
81-Tl-185g
81-Tl-185m3
Cross Section (barns)
Incident Energy (MeV)
14
80-Hg-187m

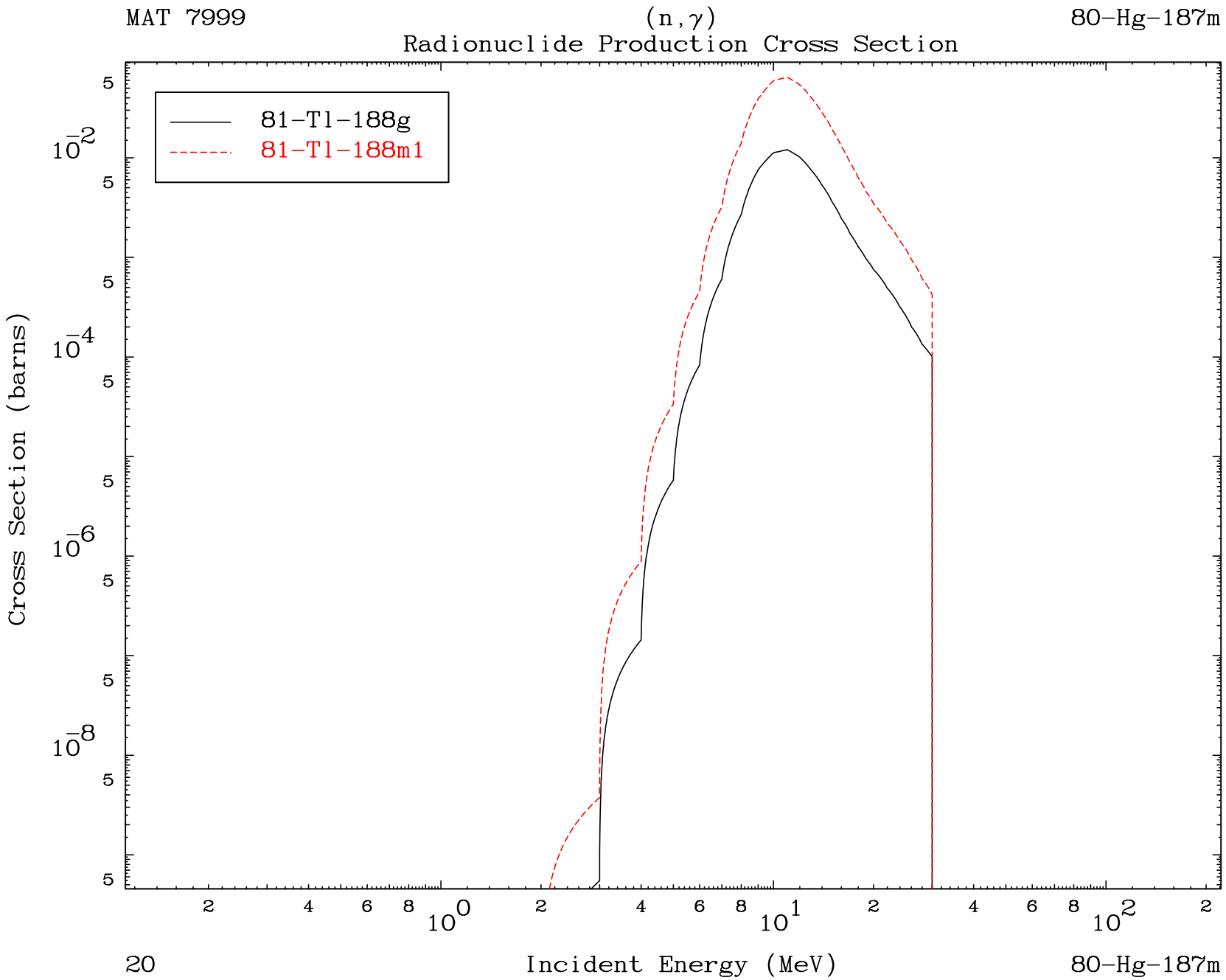

MAT 7999
Fission
80-Hg-187m
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
15
80-Hg-187m

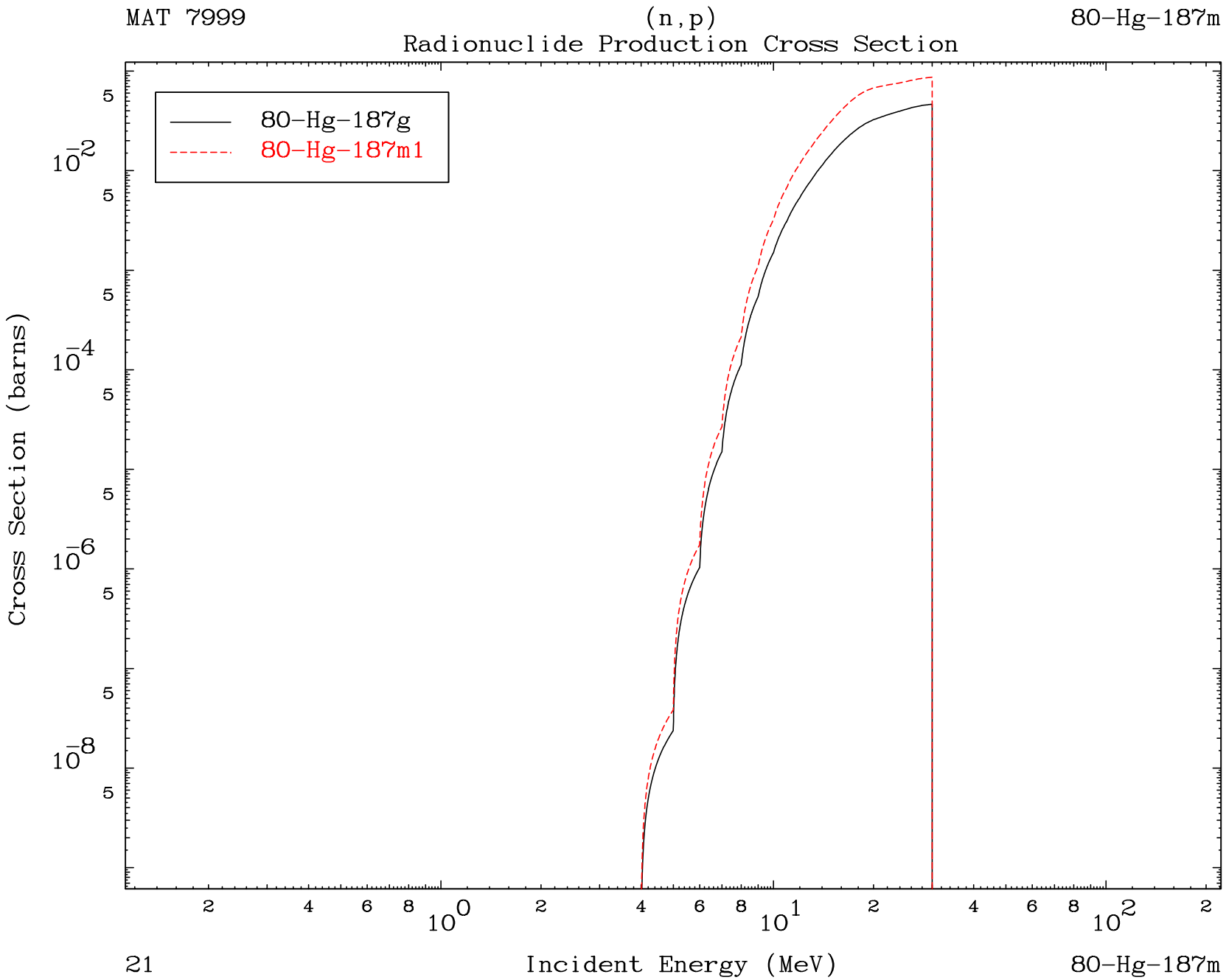

MAT 7999
(n,n') d
80-Hg-187m
Radionuclide Production Cross Section
80-Hg-185g
80-Hg-185m4
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
80-Hg-187m

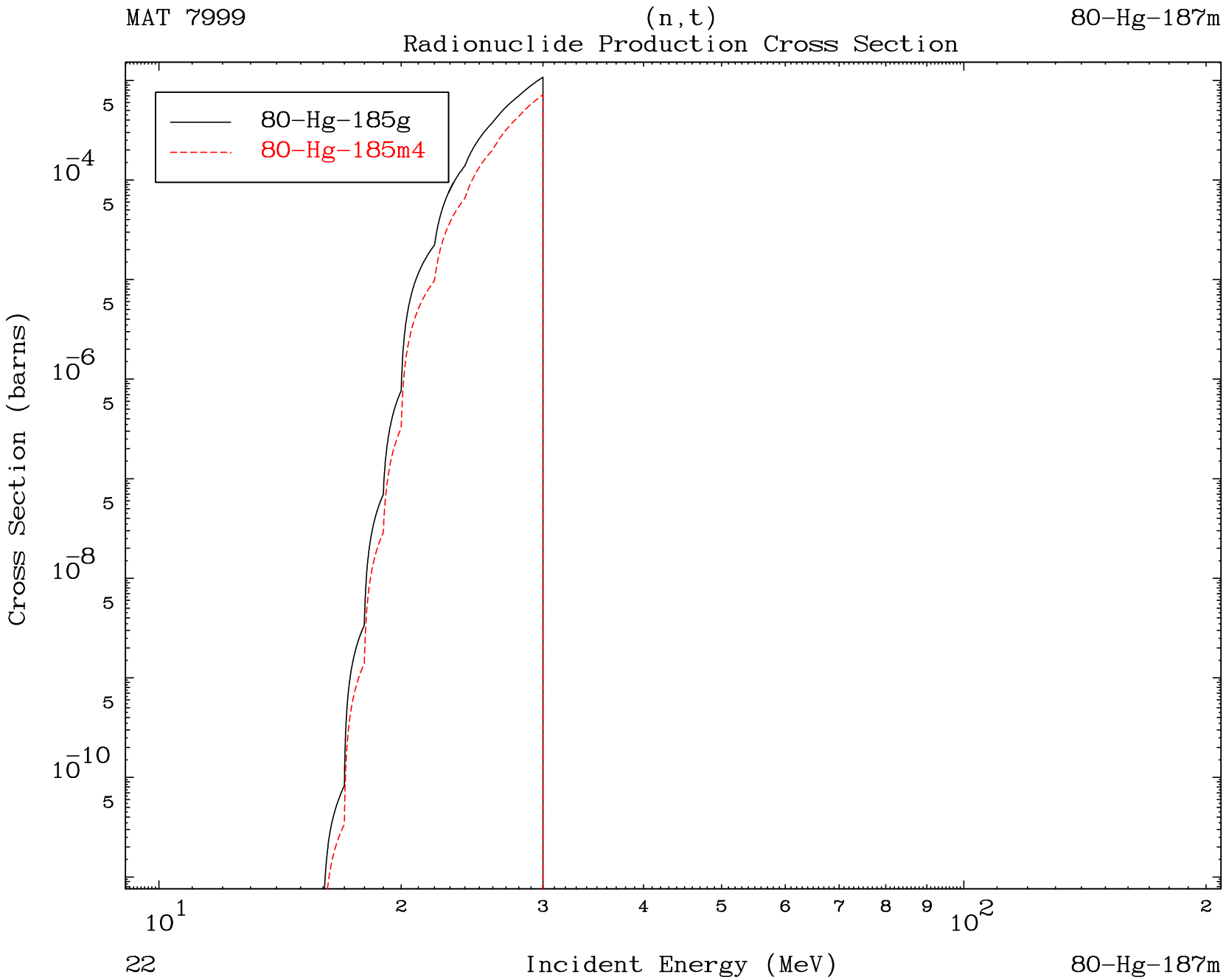

MAT 7999
(n,n') He-3
80-Hg-187m
Radionuclide Production Cross Section
79-Au-184g
79-Au-184m1
Cross Section (barns)
Incident Energy (MeV)
17
80-Hg-187m

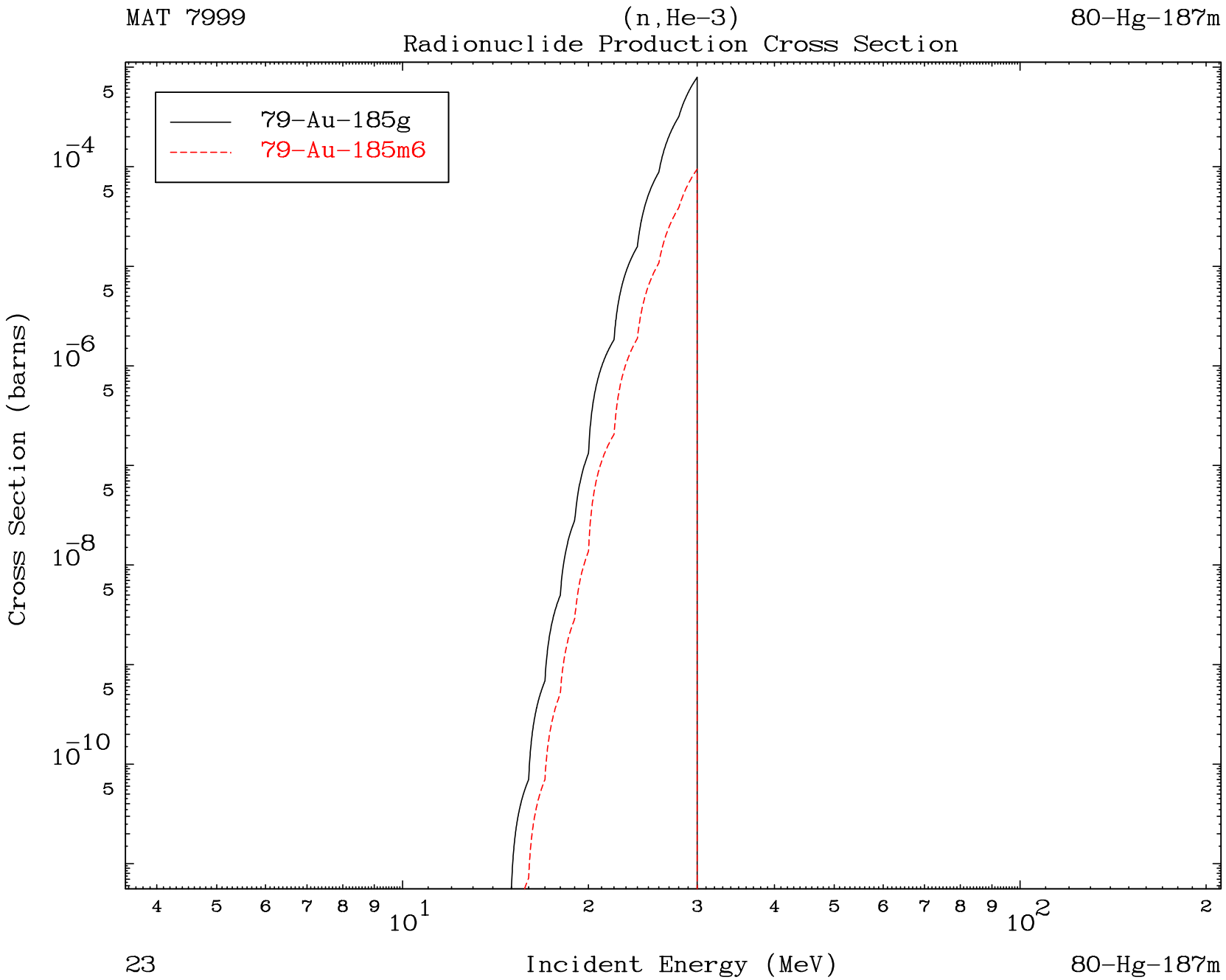

MAT 7999
(n,2n) p
80-Hg-187m
Radionuclide Production Cross Section
80-Hg-185g
80-Hg-185m4
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
80-Hg-187m

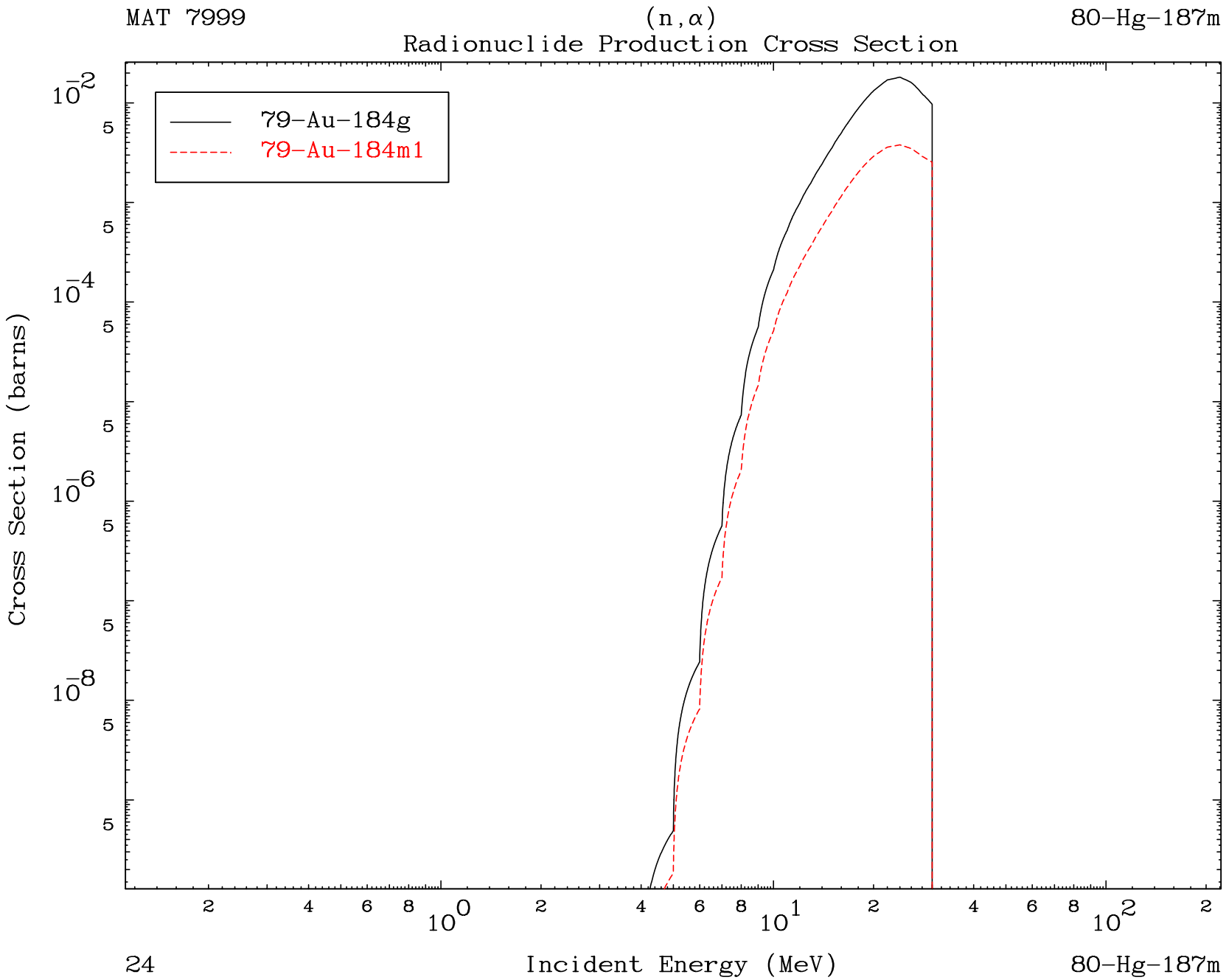

MAT 7999
(n,2n) p
80-Hg-187m
Radionuclide Production Cross Section
79-Au-185g
79-Au-185m6
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
80-Hg-187m

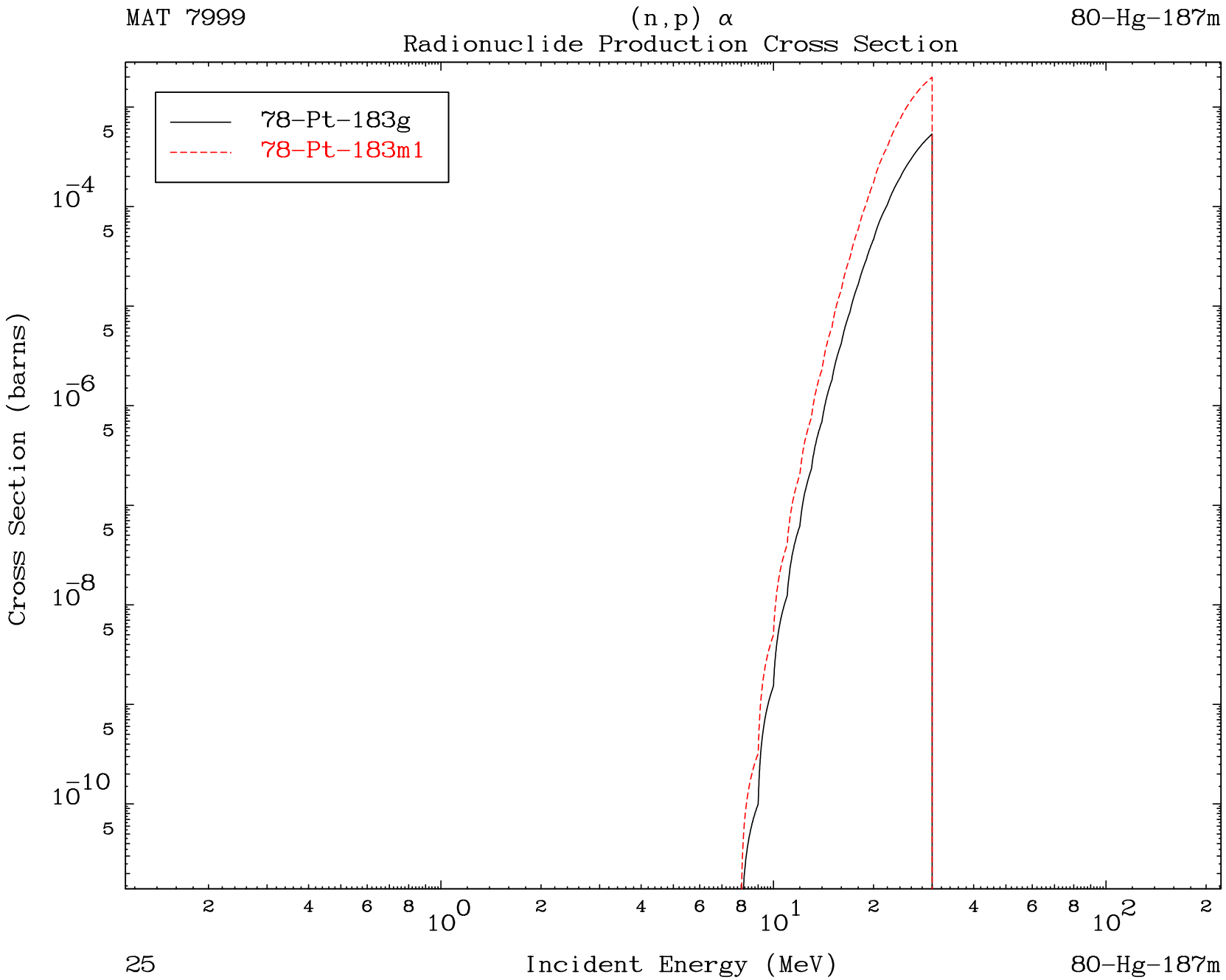

MAT 7999
(n,γ)
80-Hg-187m
Radionuclide Production Cross Section
81-Tl-188g
81-Tl-188m1
Cross Section (barns)
Incident Energy (MeV)
20
80-Hg-187m

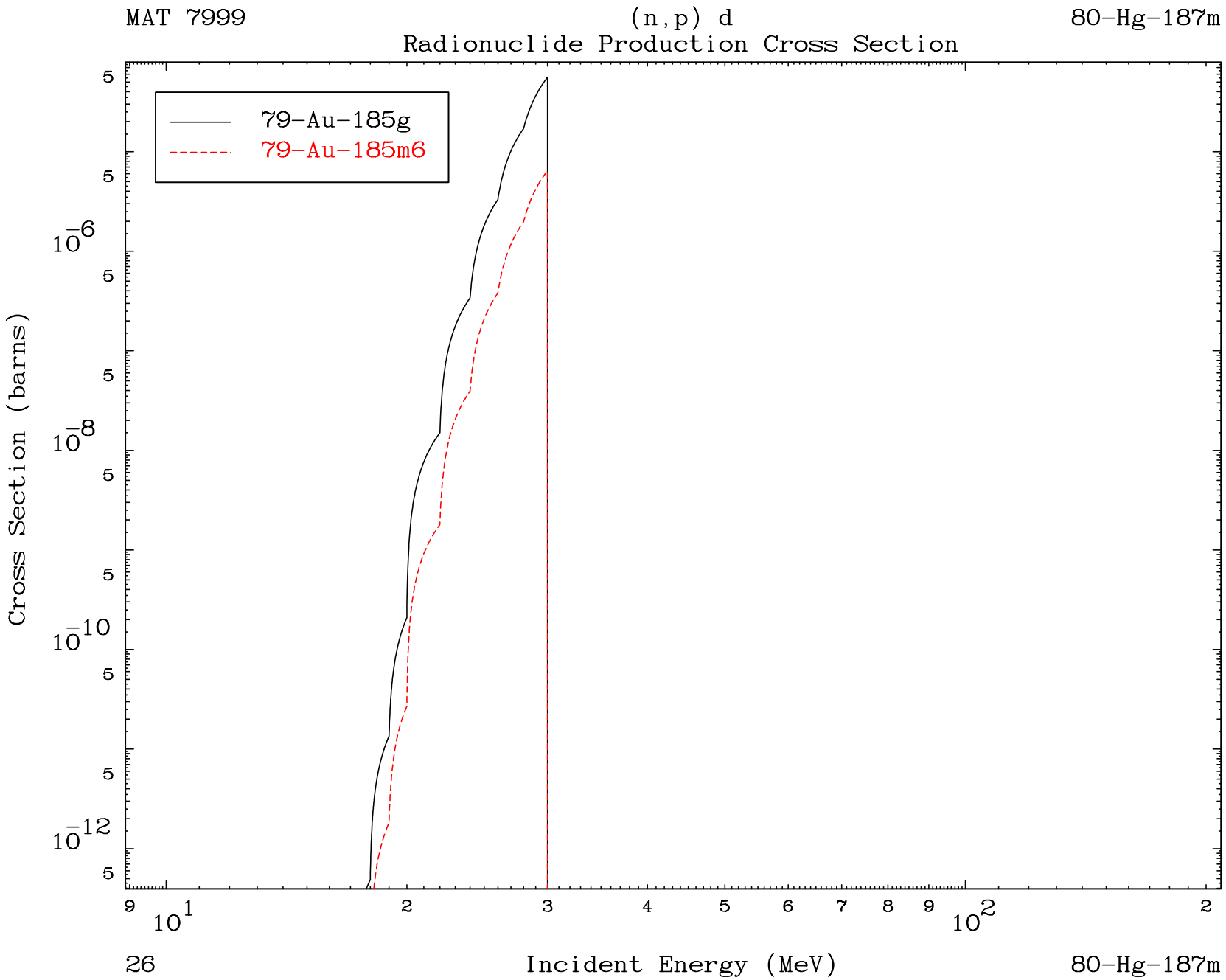

MAT 7999
(n,p)
80-Hg-187m
Radionuclide Production Cross Section
80-Hg-187g
80-Hg-187m1
Cross Section (barns)
Incident Energy (MeV)
21
80-Hg-187m

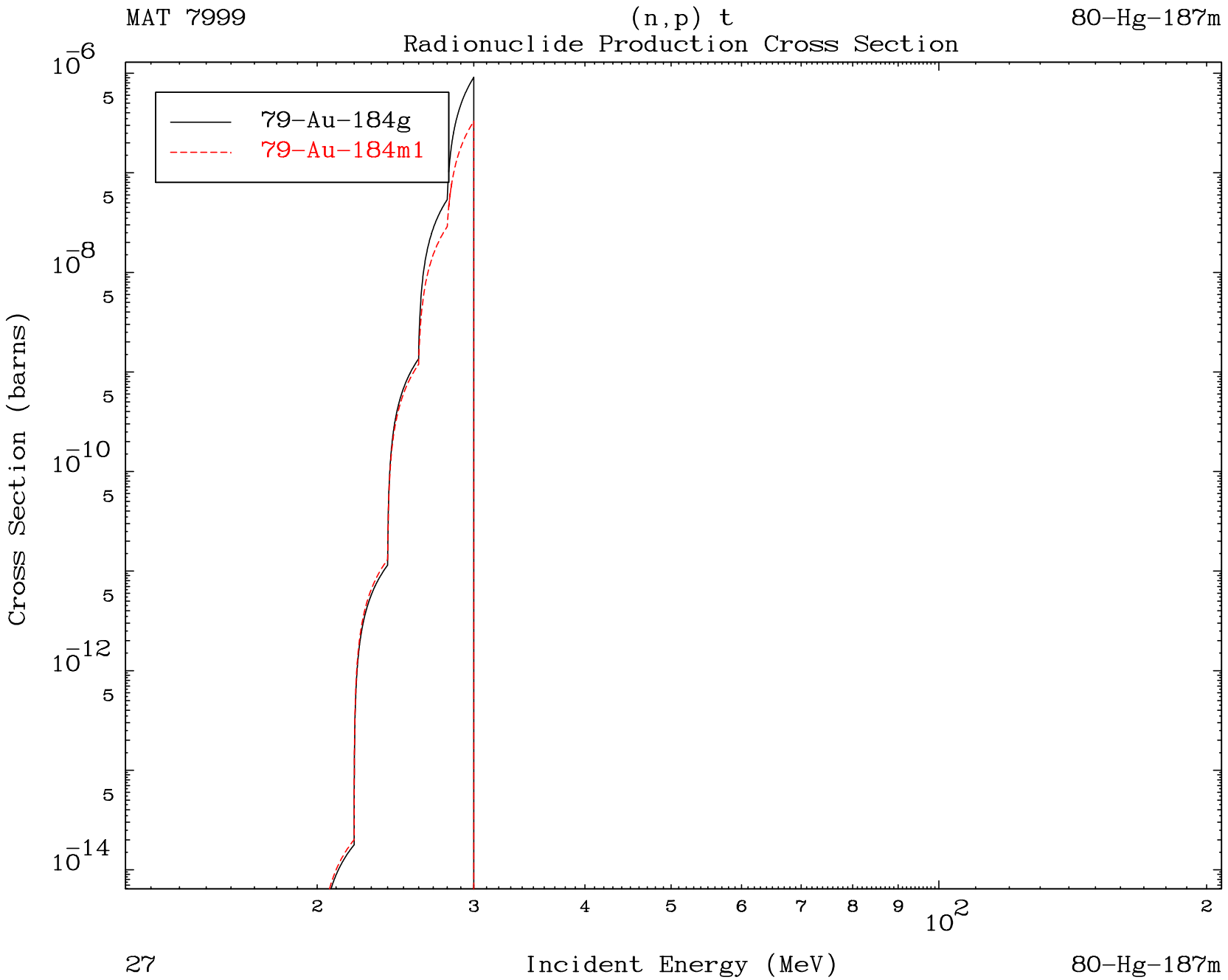

MAT 7999
(n,t)
80-Hg-187m
Radionuclide Production Cross Section
80-Hg-185g
80-Hg-185m4
Cross Section (barns)
10-4
10-6
10-8
10-10
10^1
10^2
Incident Energy (MeV)
22
80-Hg-187m


MAT 7999
(n,He-3)
80-Hg-187m
Radionuclide Production Cross Section
79-Au-185g
79-Au-185m6
Cross Section (barns)
Incident Energy (MeV)
23
80-Hg-187m


MAT 7999
(n,α)
80-Hg-187m
Radionuclide Production Cross Section
79-Au-184g
79-Au-184m1
Cross Section (barns)
Incident Energy (MeV)
24
80-Hg-187m


MAT 7999
(n,p) α
80-Hg-187m
Radionuclide Production Cross Section
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
25
80-Hg-187m


MAT 7999
(n,p) d
80-Hg-187m
Radionuclide Production Cross Section
79-Au-185g
79-Au-185m6
Cross Section (barns)
Incident Energy (MeV)
26
80-Hg-187m


MAT 7999
(n,p) t
80-Hg-187m
Radionuclide Production Cross Section
79-Au-184g
79-Au-184m1
Cross Section (barns)
Incident Energy (MeV)
27
80-Hg-187m