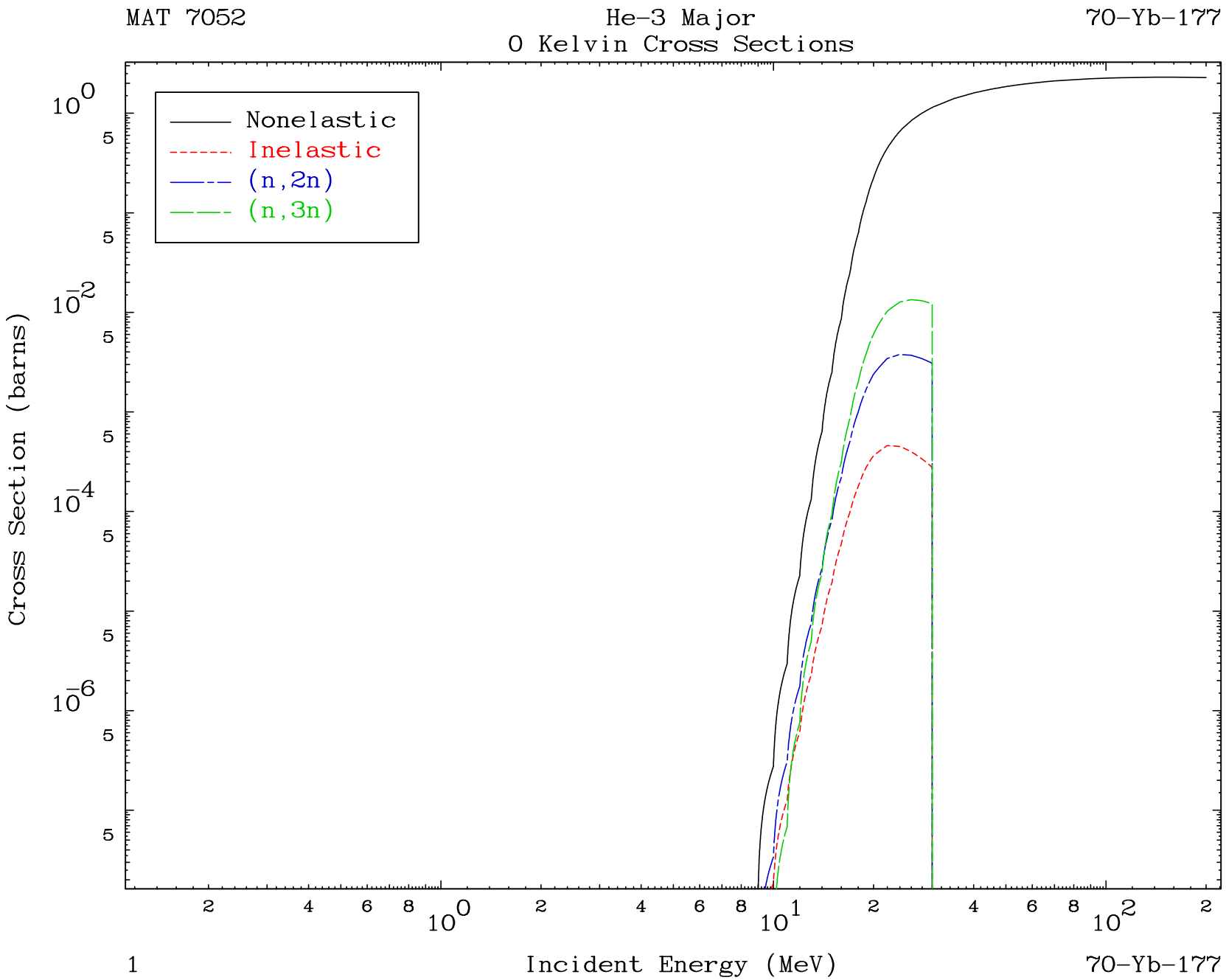
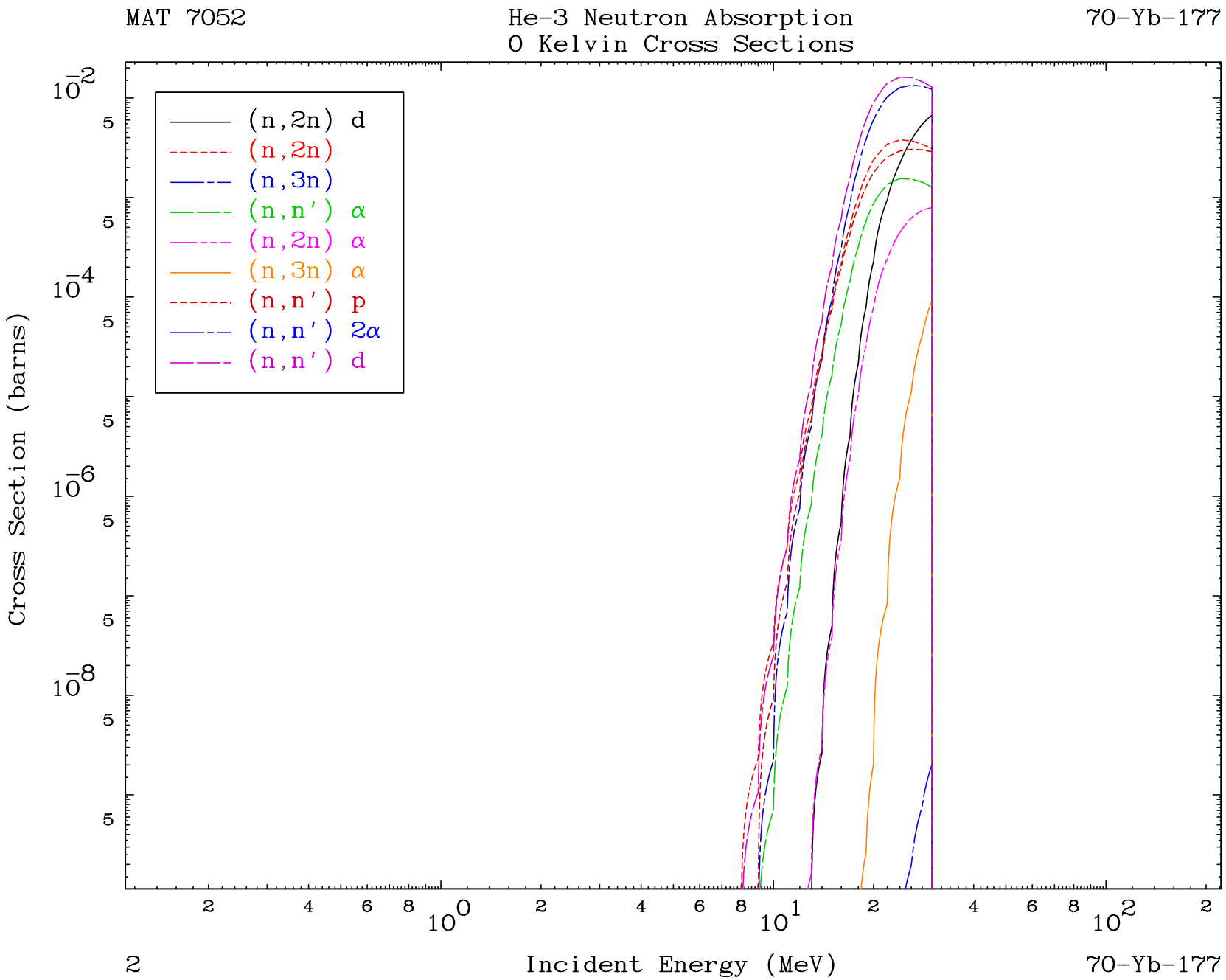
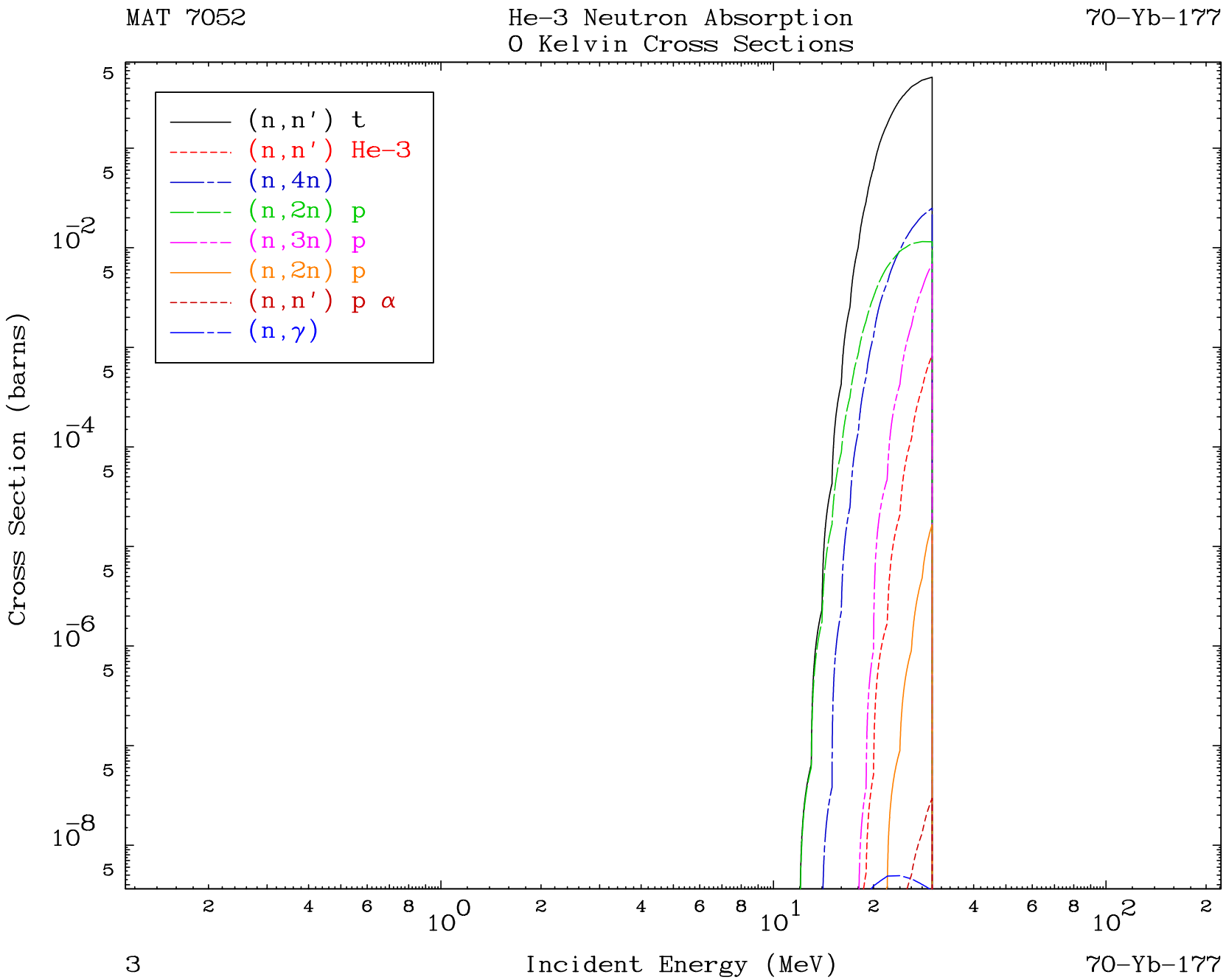
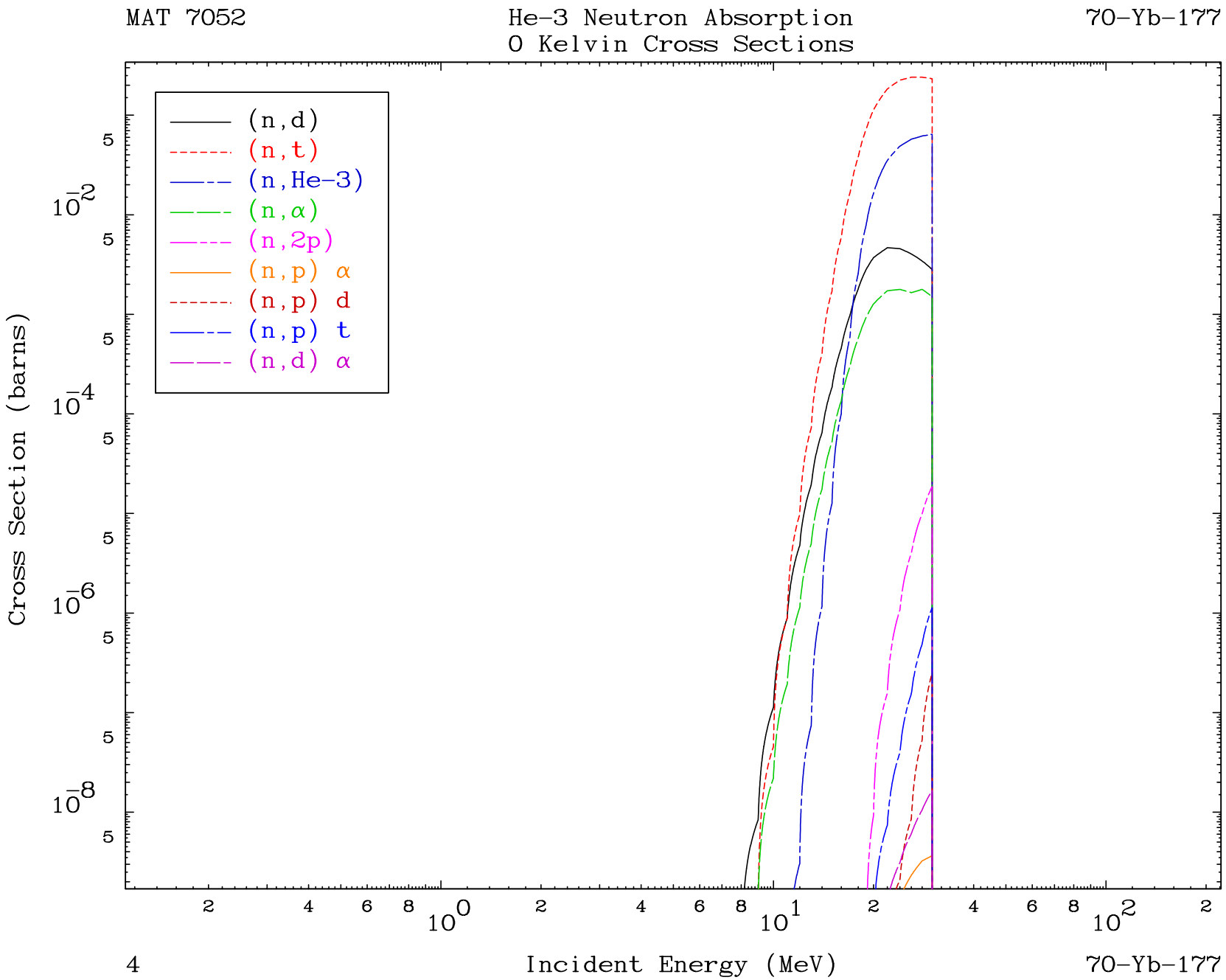
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

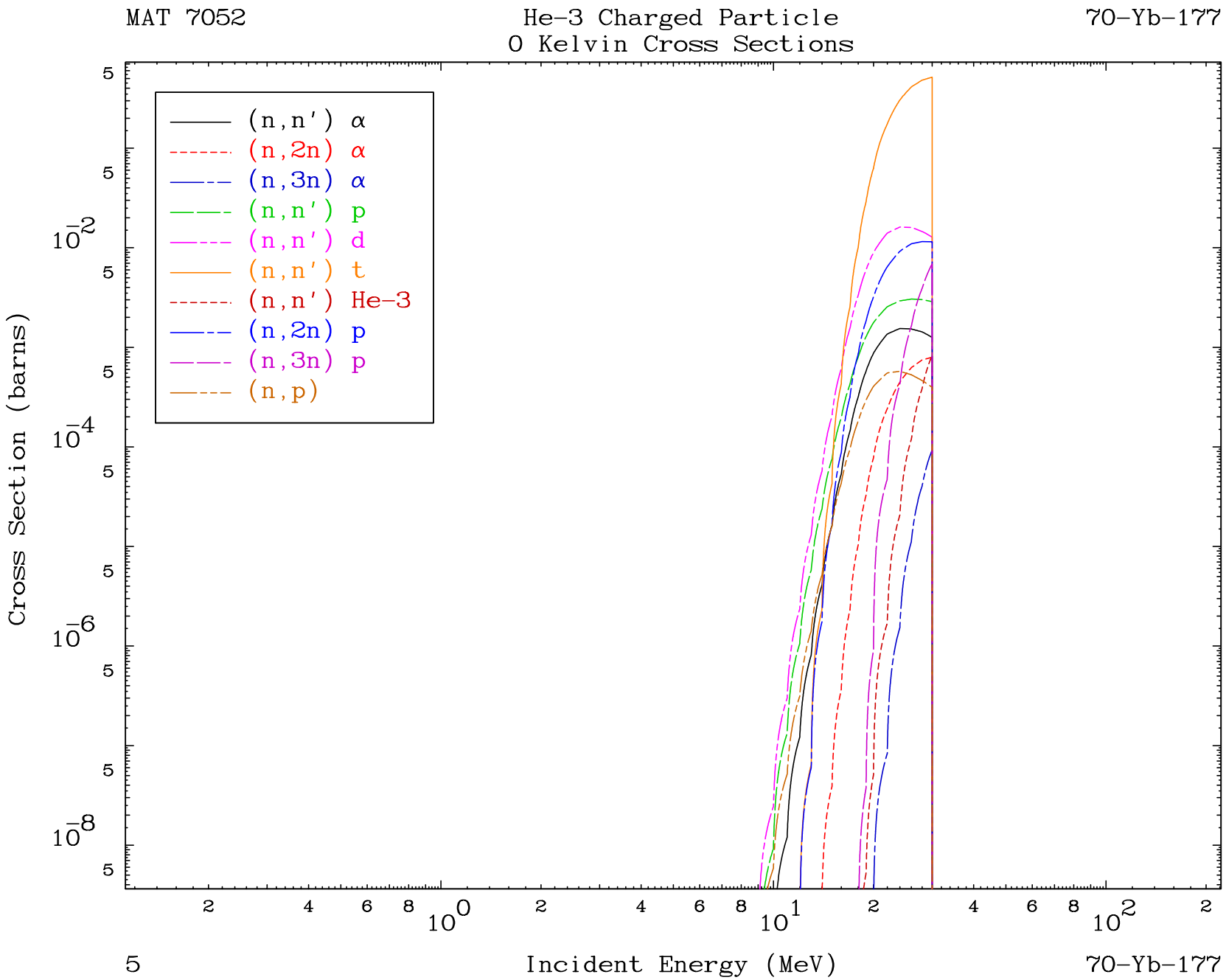
Press Mouse Button to Start

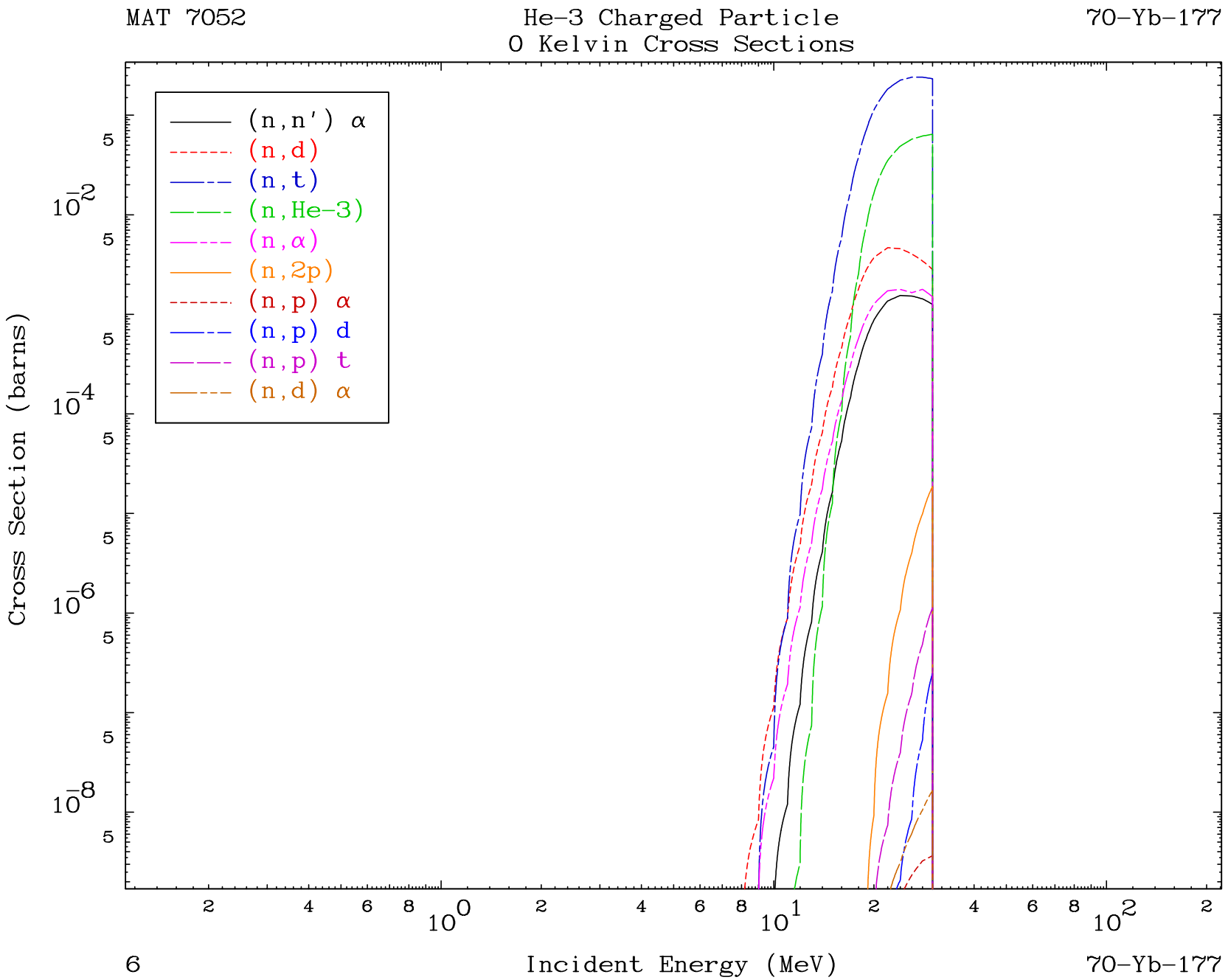

MAT 7052
He-3 Major
70-Yb-177
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
Cross Section (barns)
Incident Energy (MeV)
70-Yb-177
1

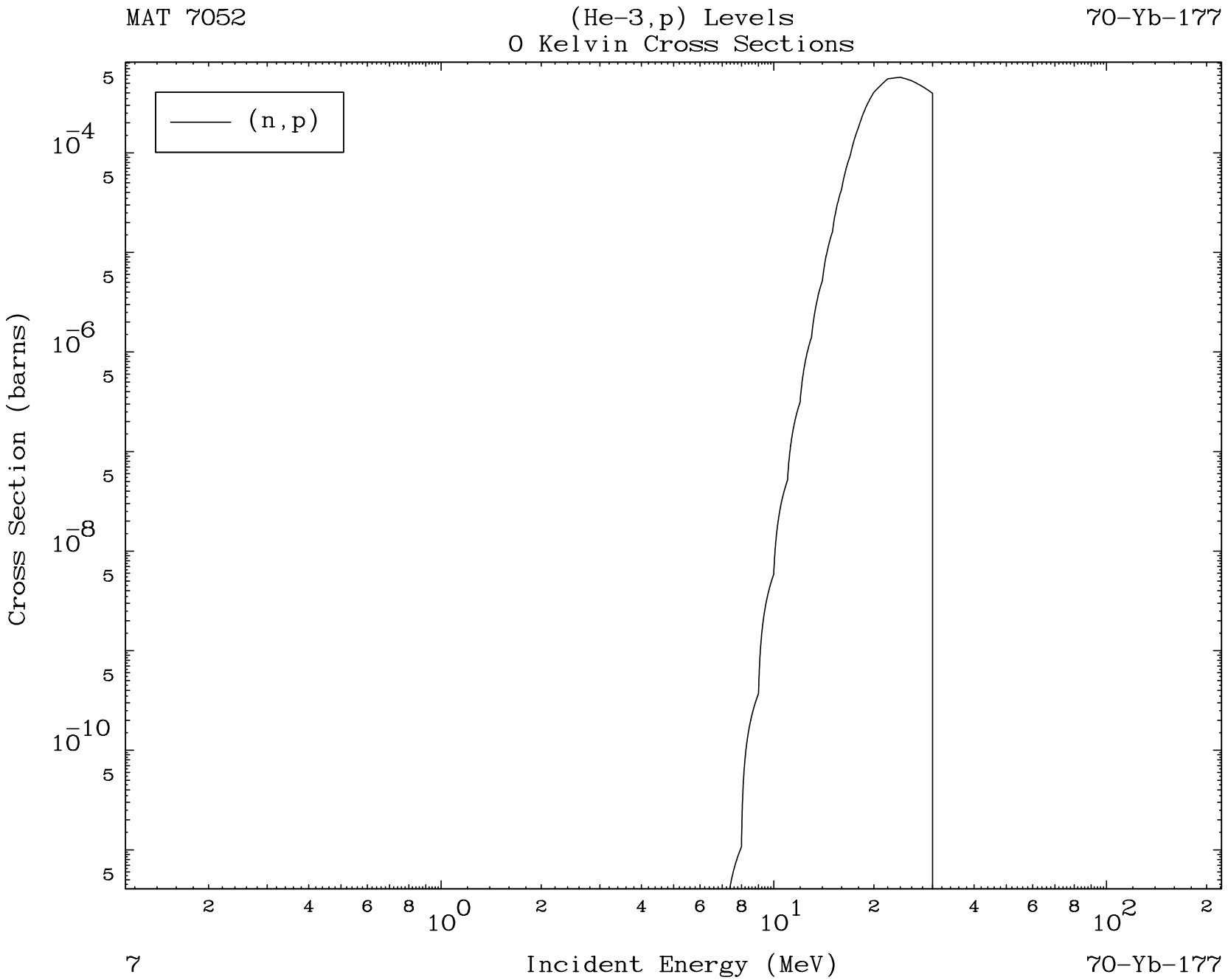

MAT 7052
He-3 Neutron Absorption
0 Kelvin Cross Sections
70-Yb-177
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
70-Yb-177
2

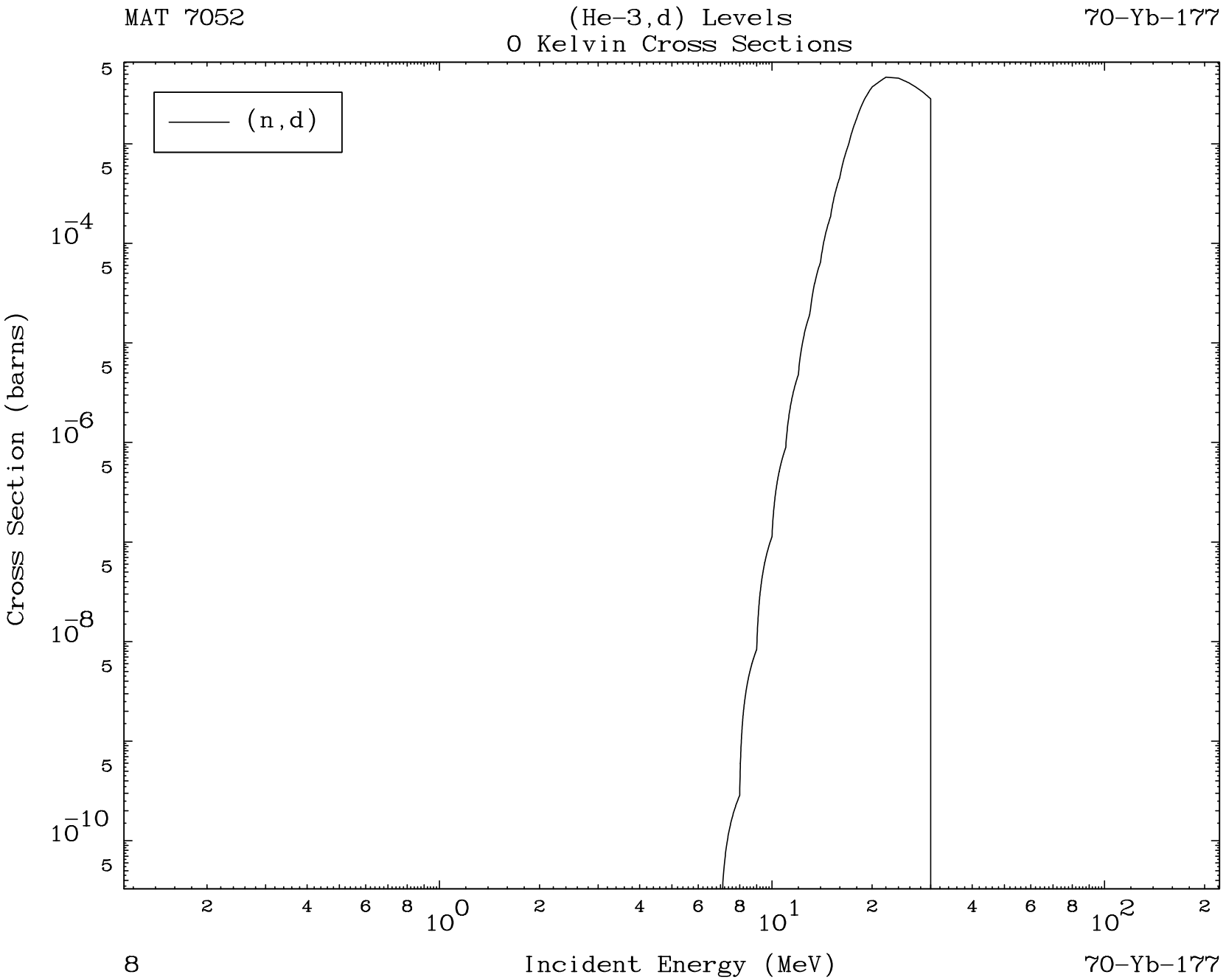

MAT 7052
He-3 Neutron Absorption
0 Kelvin Cross Sections
70-Yb-177
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
3
70-Yb-177

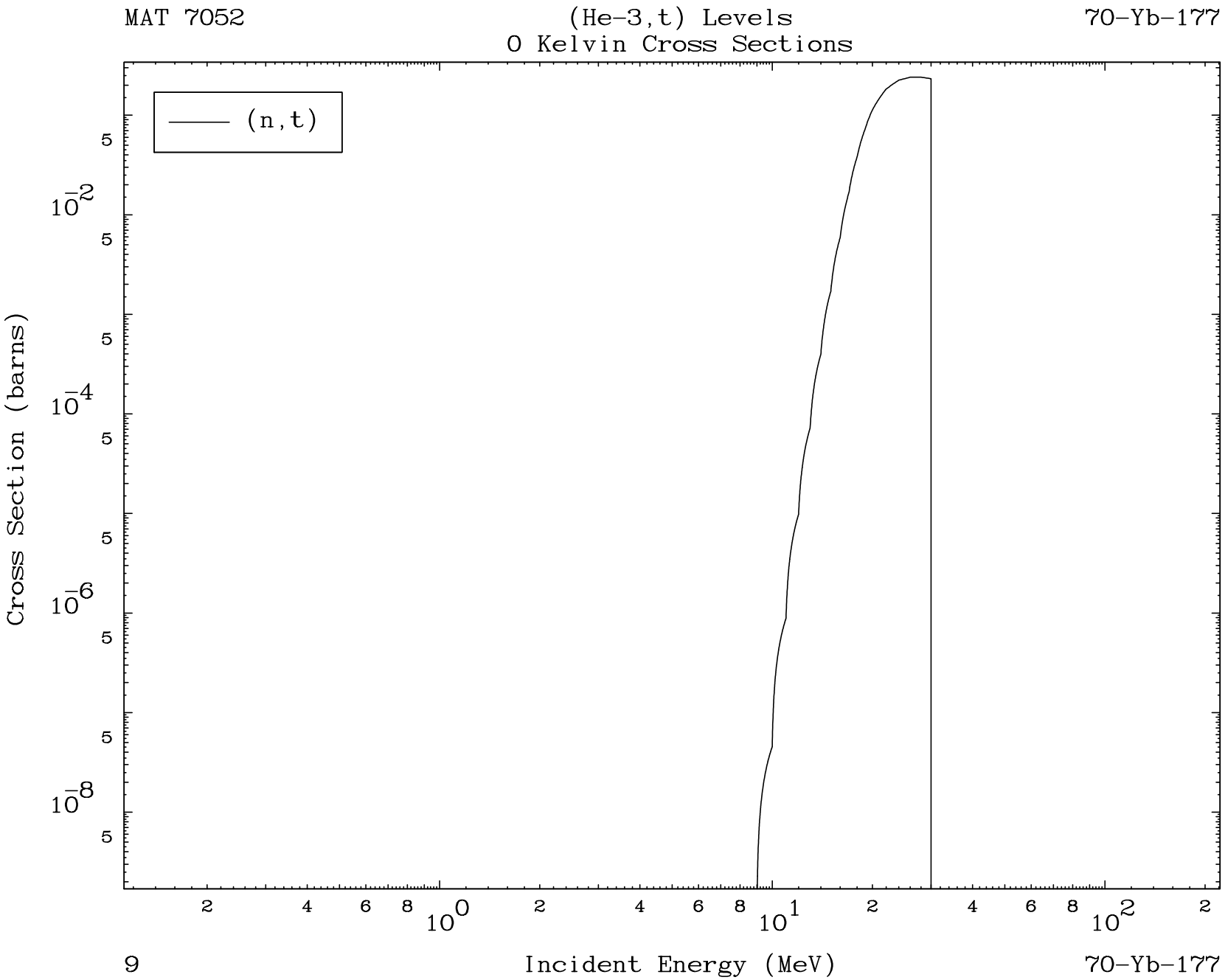

MAT 7052
He-3 Neutron Absorption
0 Kelvin Cross Sections
70-Yb-177
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
70-Yb-177

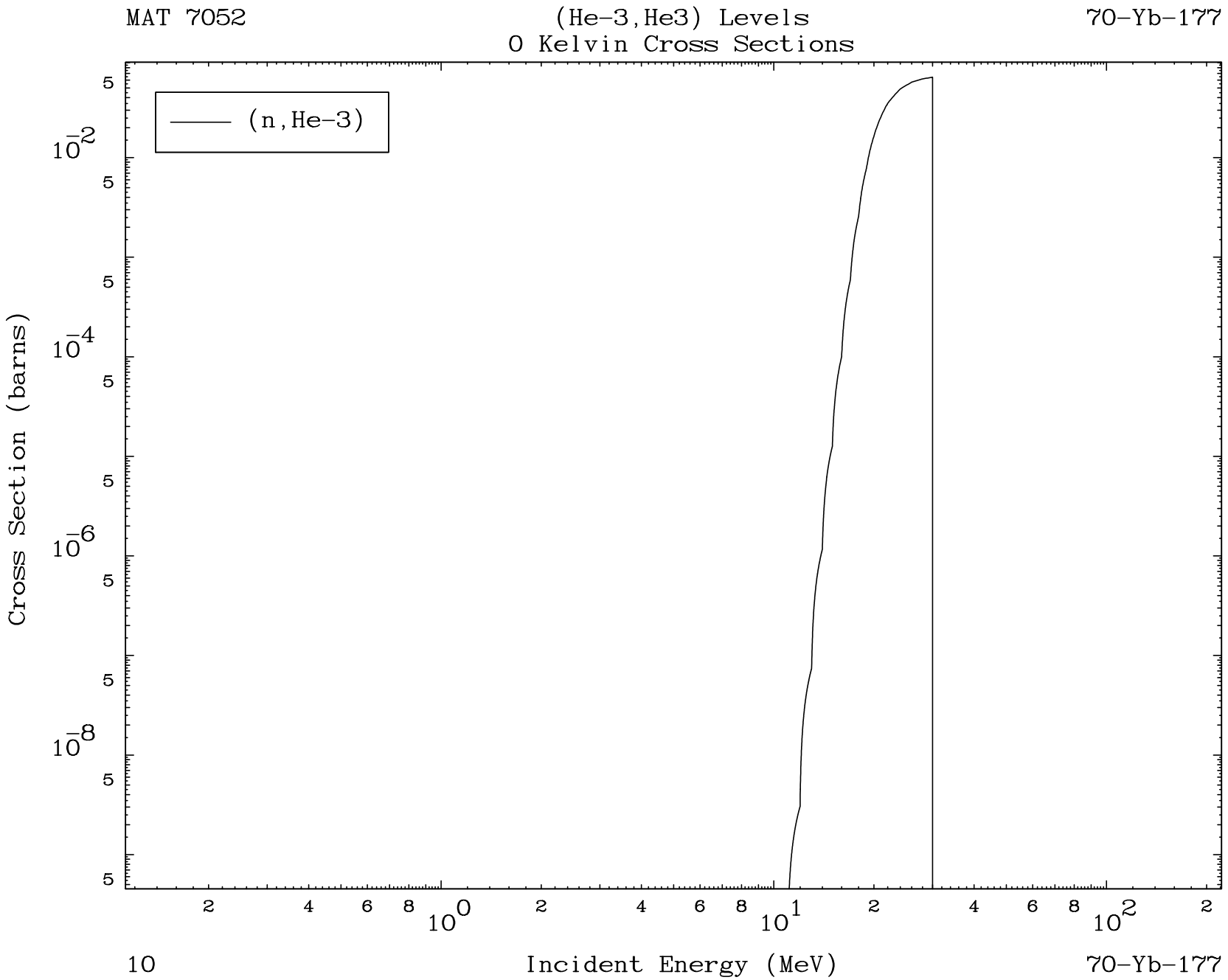

MAT 7052
He-3 Charged Particle
0 Kelvin Cross Sections
70-Yb-177
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
70-Yb-177


MAT 7052
He-3 Charged Particle
0 Kelvin Cross Sections
70-Yb-177
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
70-Yb-177

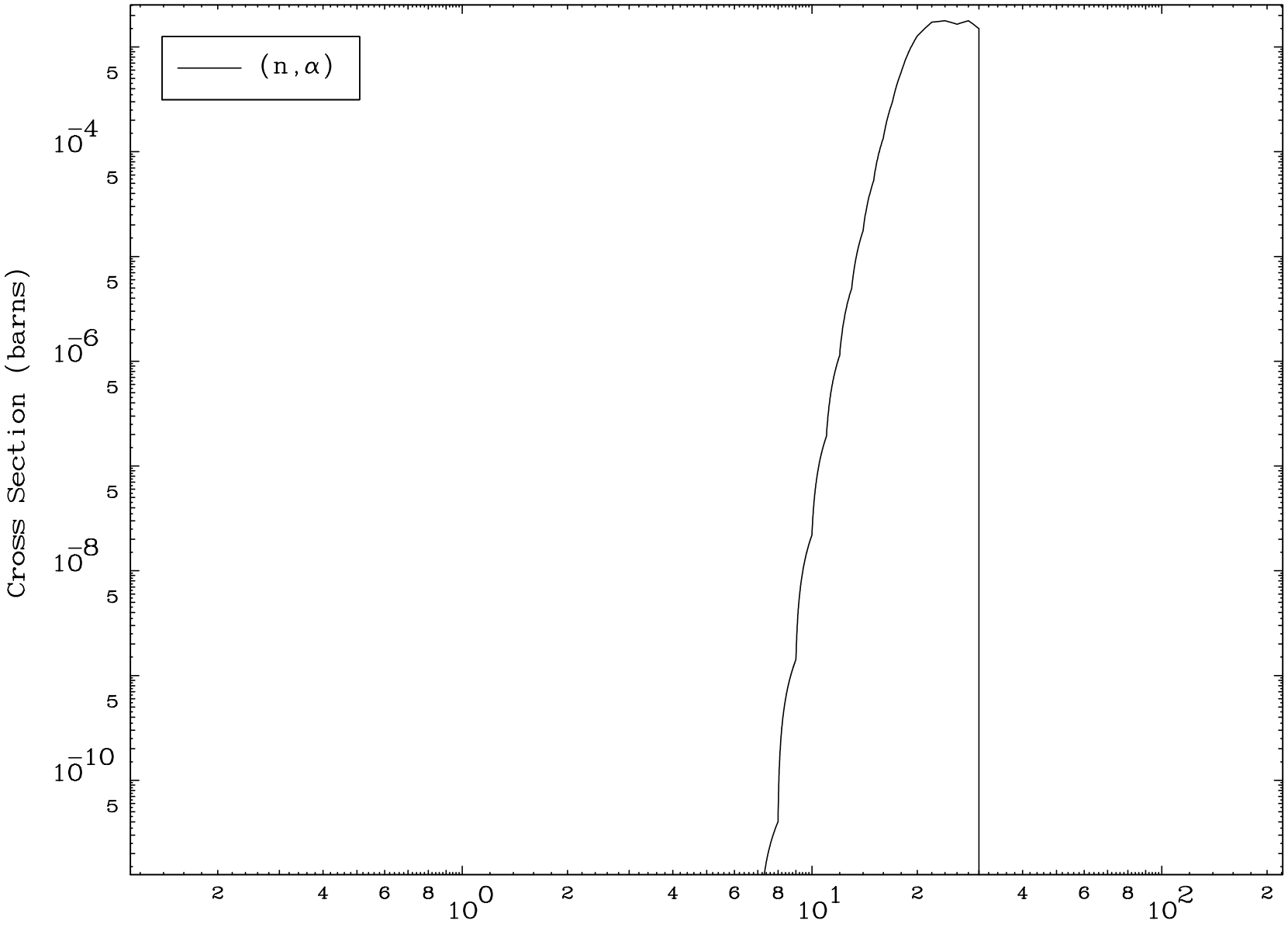

MAT 7052
(He-3,p) Levels
0 Kelvin Cross Sections
70-Yb-177
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
70-Yb-177

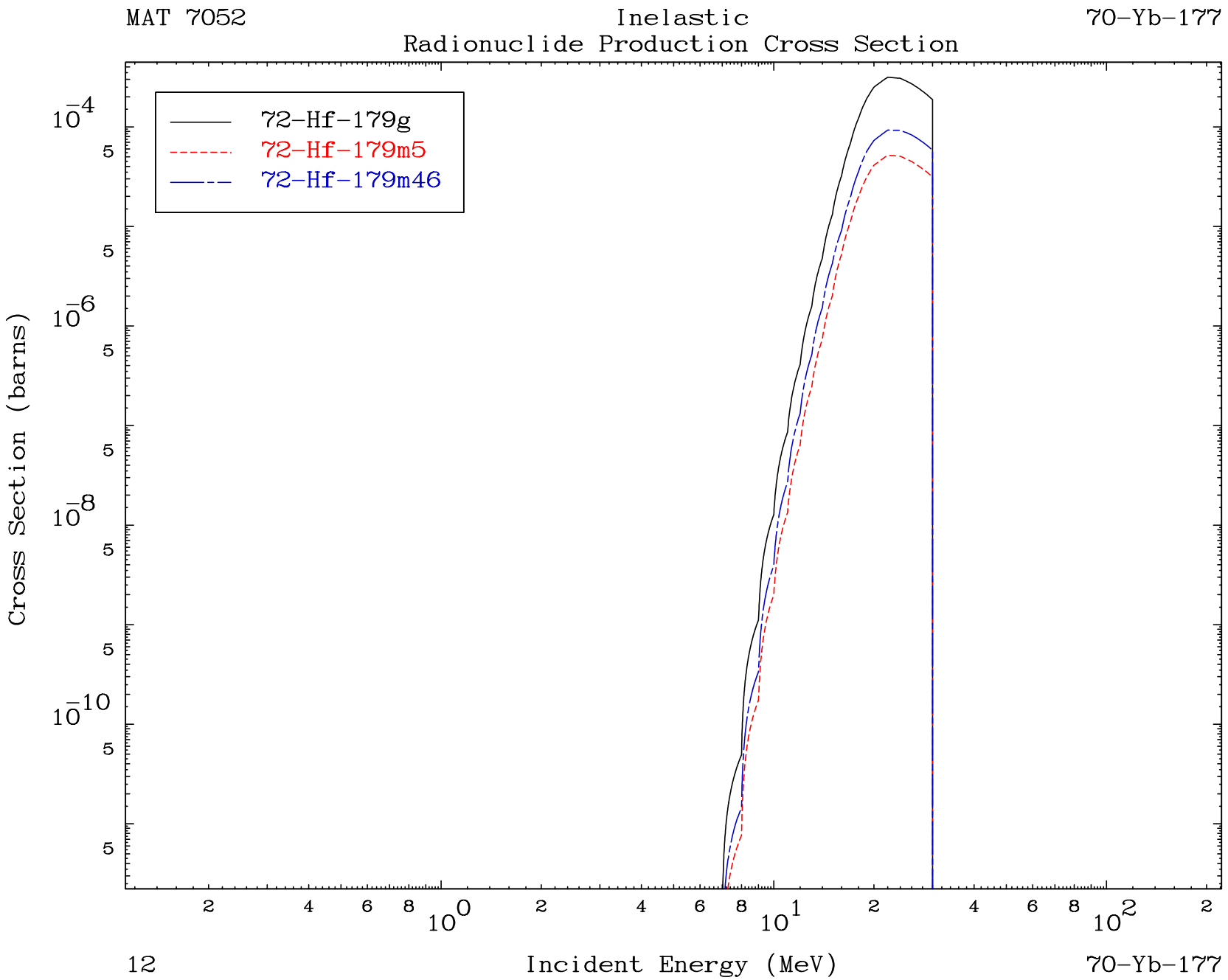

MAT 7052
(He-3,d) Levels
70-Yb-177
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
70-Yb-177

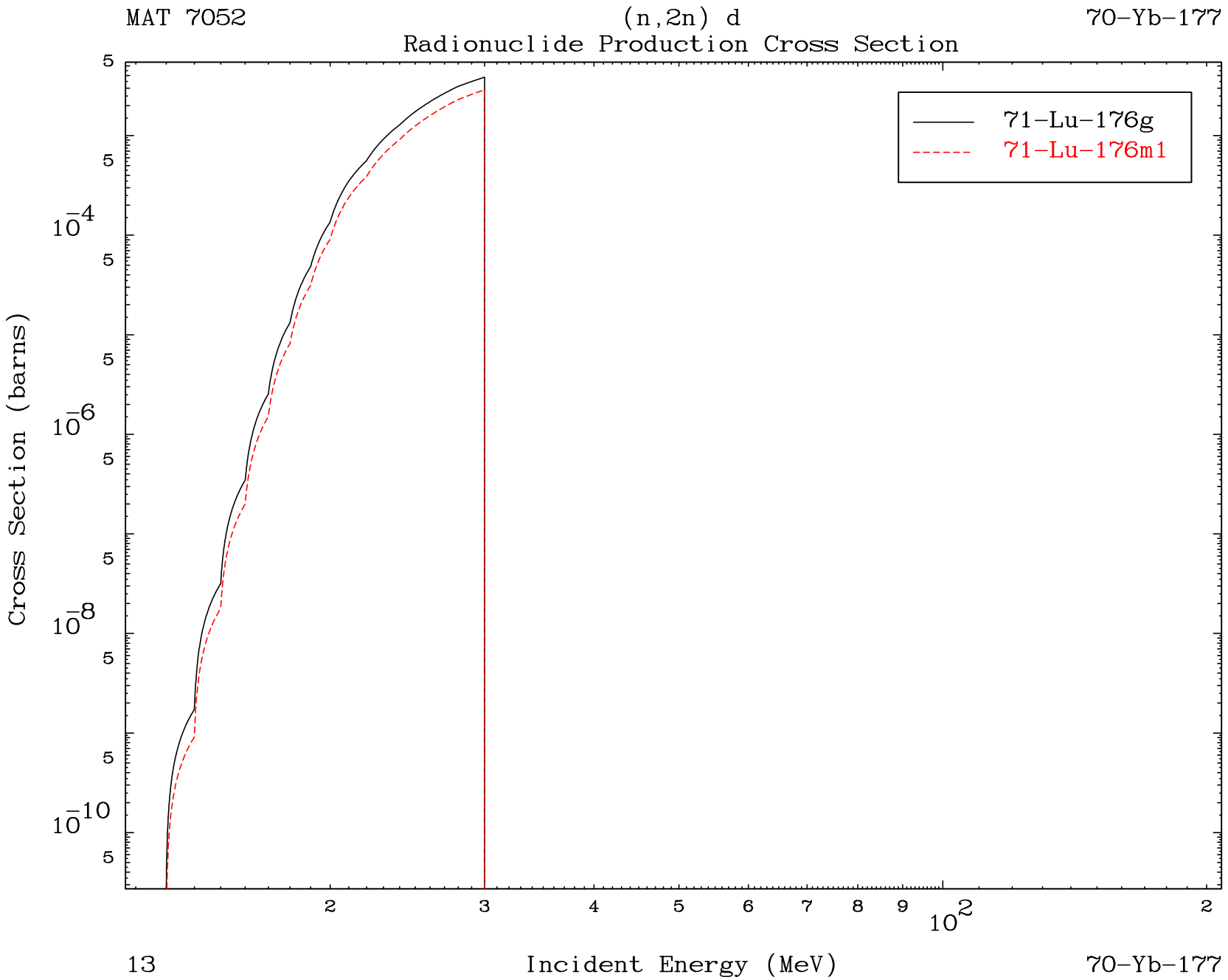

MAT 7052
(He-3,t) Levels
70-Yb-177
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)
9
70-Yb-177

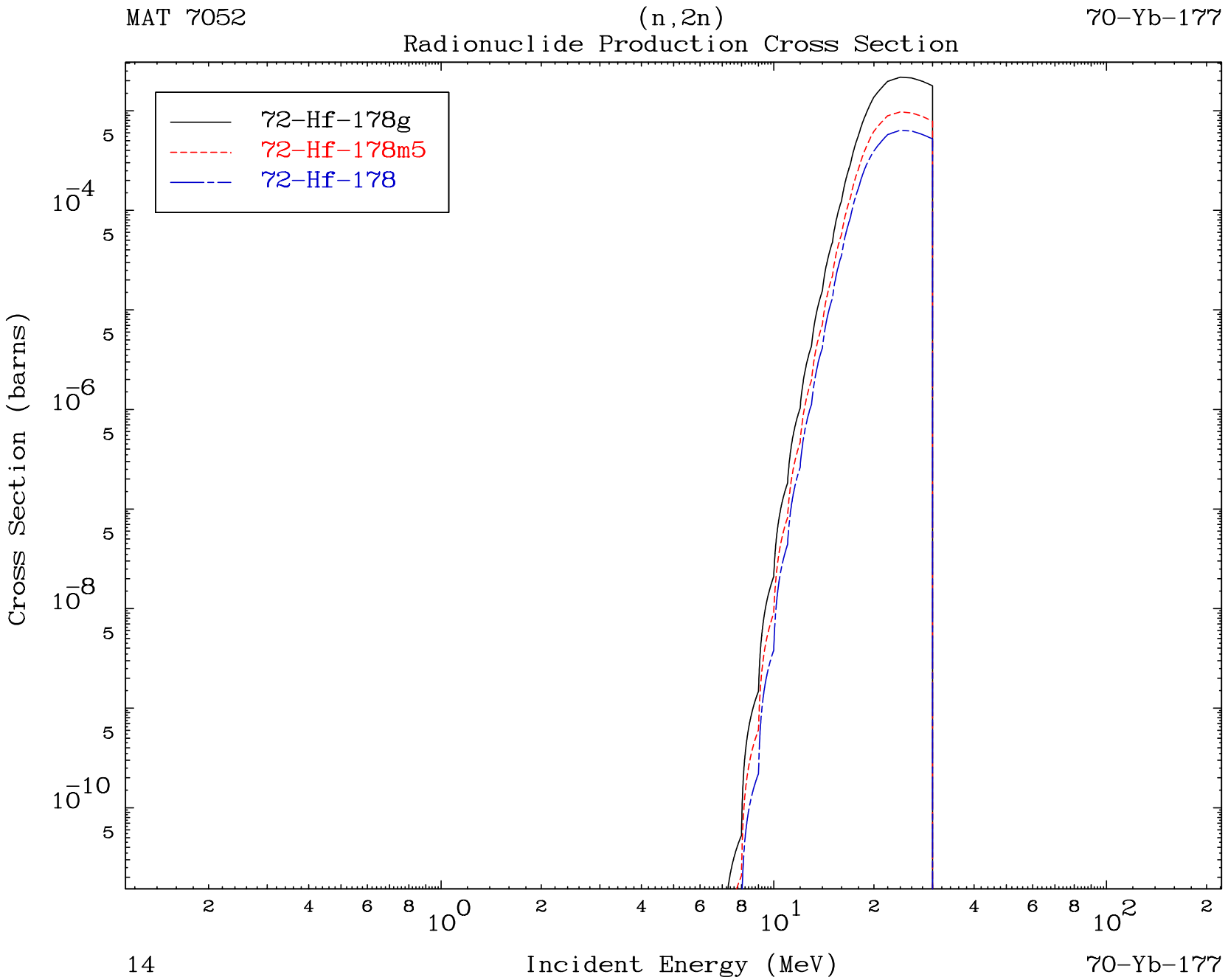

MAT 7052
(He-3,He3) Levels
70-Yb-177
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
70-Yb-177

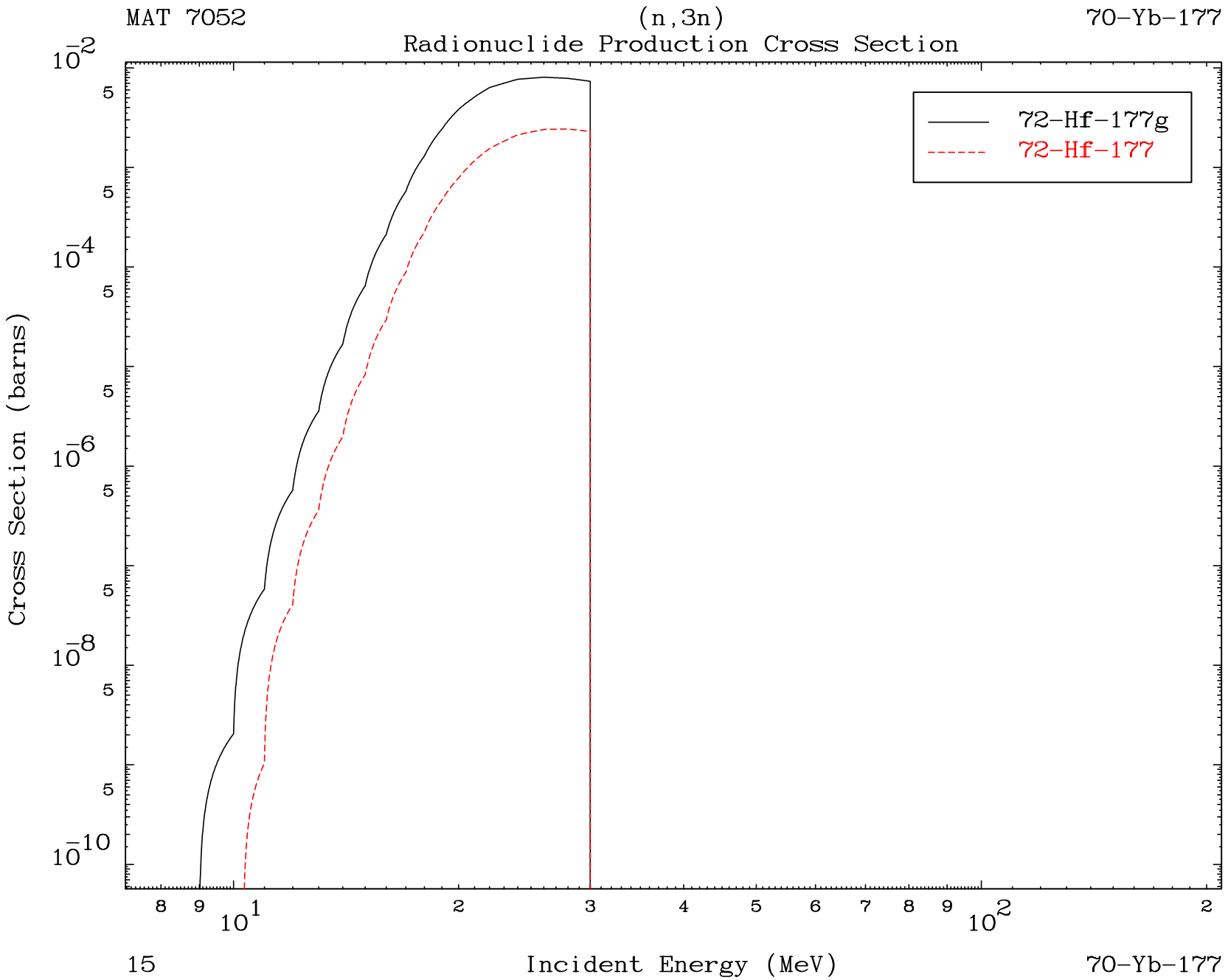
0 Kelvin Cross Sections

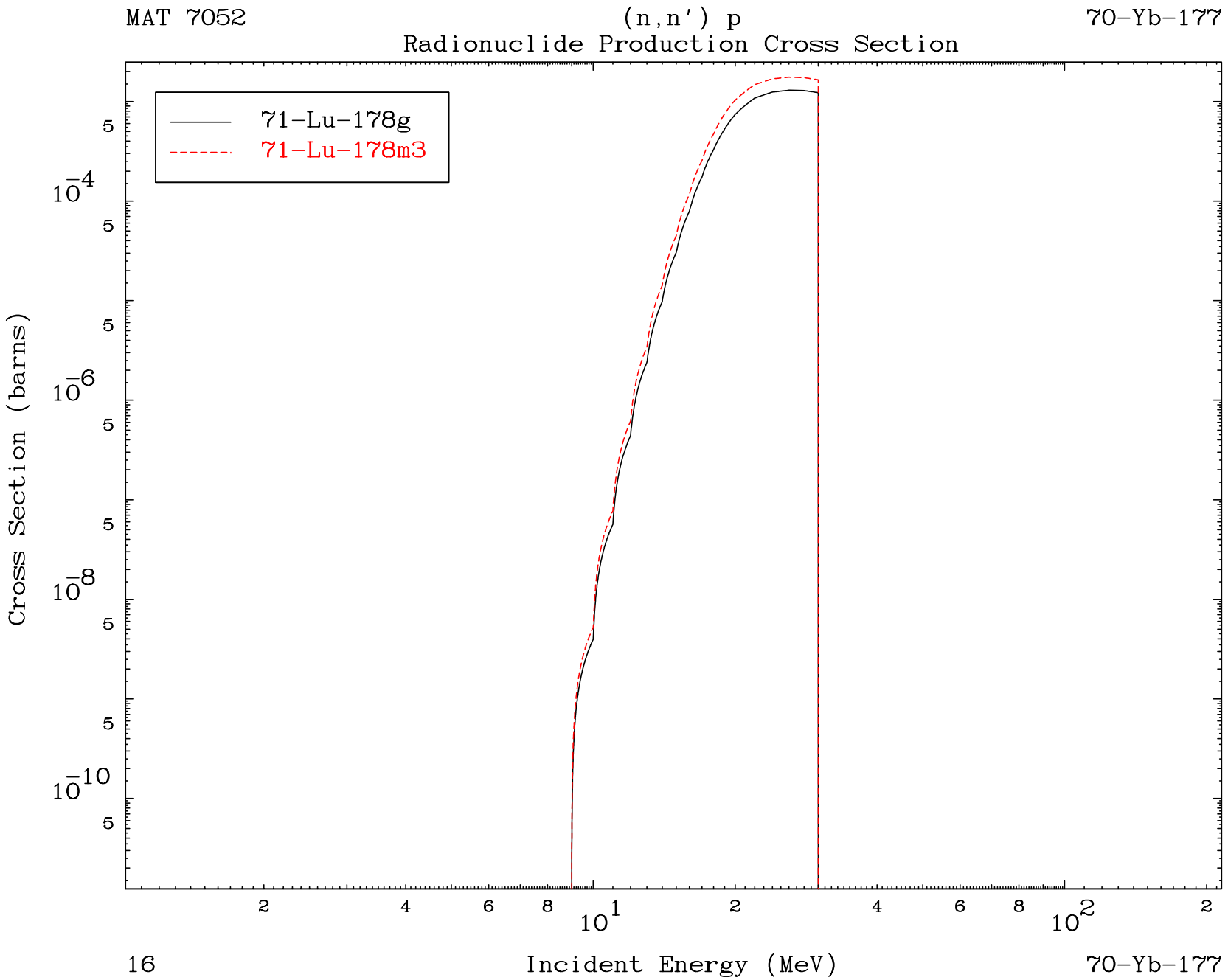


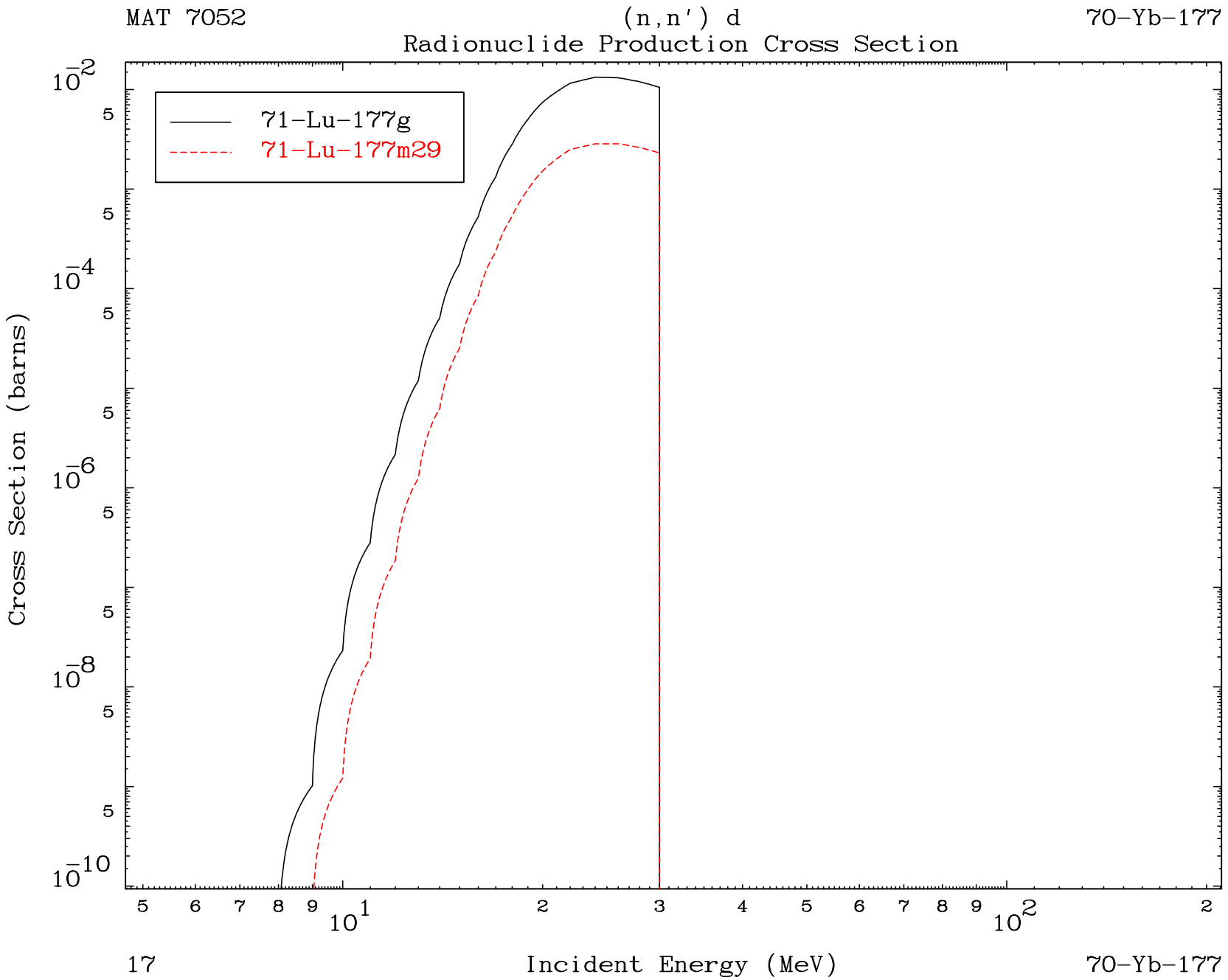

MAT 7052
Inelastic
70-Yb-177
Radionuclide Production Cross Section
72-Hf-179g
72-Hf-179m5
72-Hf-179m46
Cross Section (barns)
Incident Energy (MeV)
12
70-Yb-177

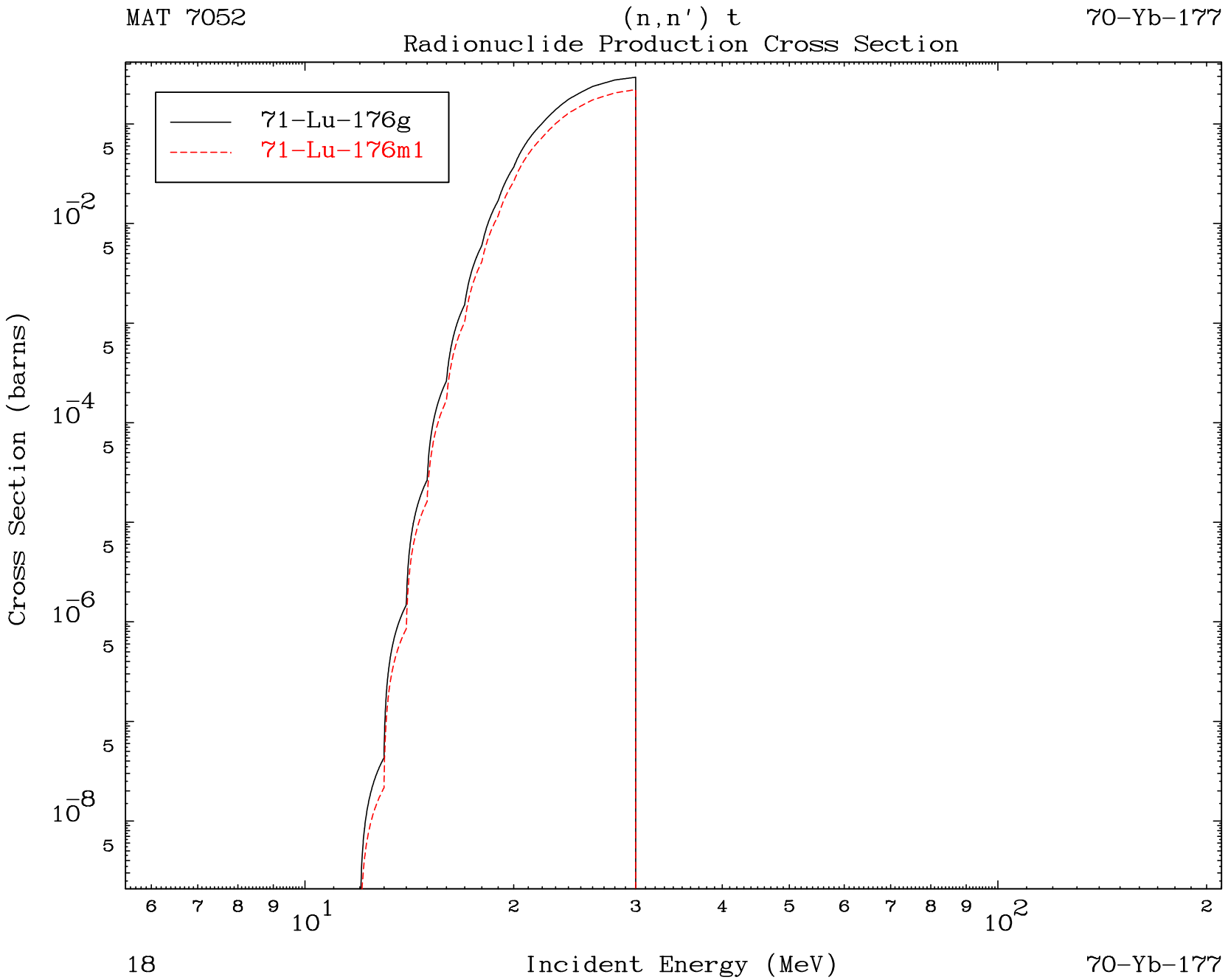

MAT 7052
(n,2n) d
70-Yb-177
Radionuclide Production Cross Section
71-Lu-176g
71-Lu-176m1
Cross Section (barns)
Incident Energy (MeV)
13
70-Yb-177

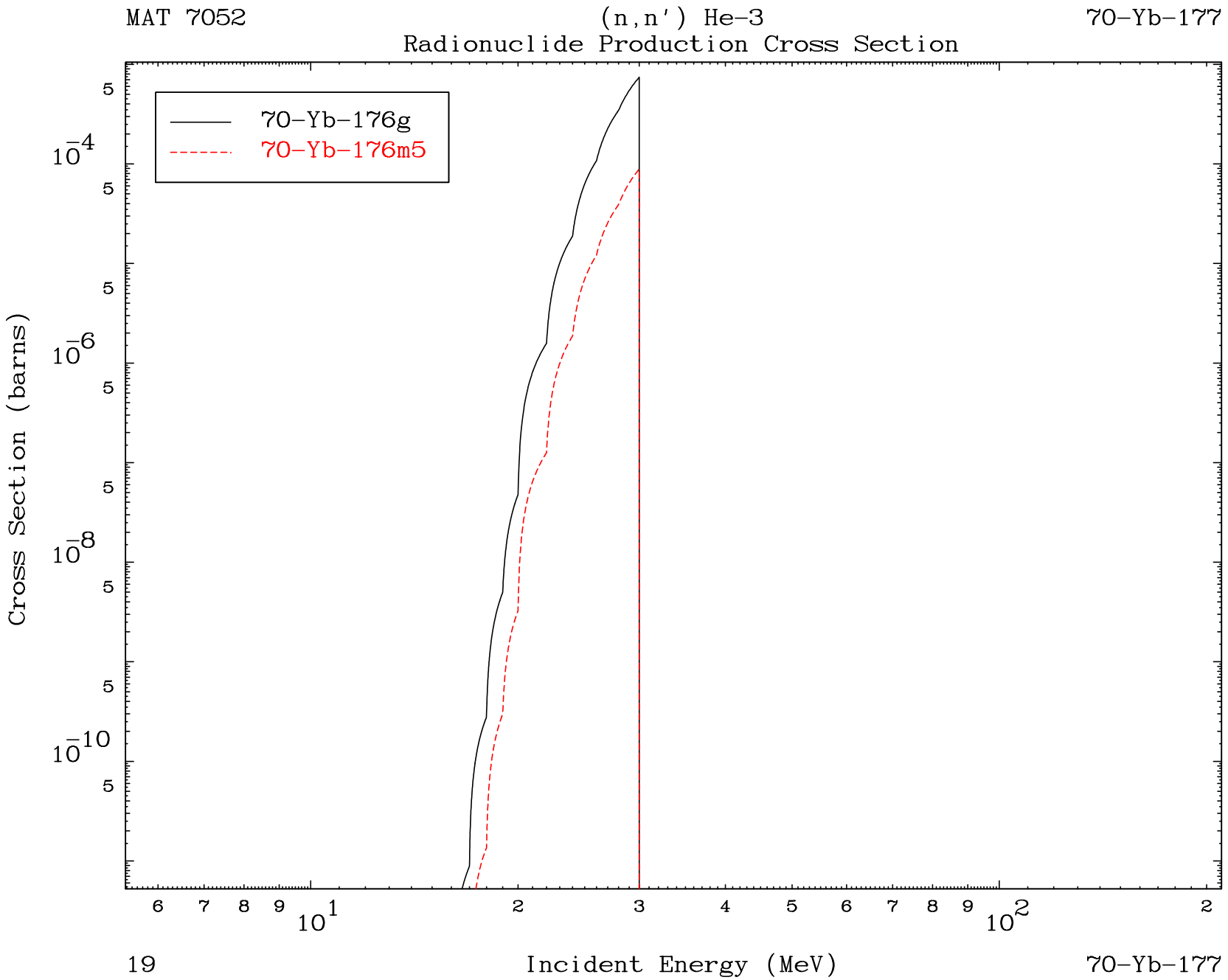

MAT 7052
(n,2n)
70-Yb-177
Radionuclide Production Cross Section
72-Hf-178g
72-Hf-178m5
72-Hf-178
Cross Section (barns)
Incident Energy (MeV)
14
70-Yb-177

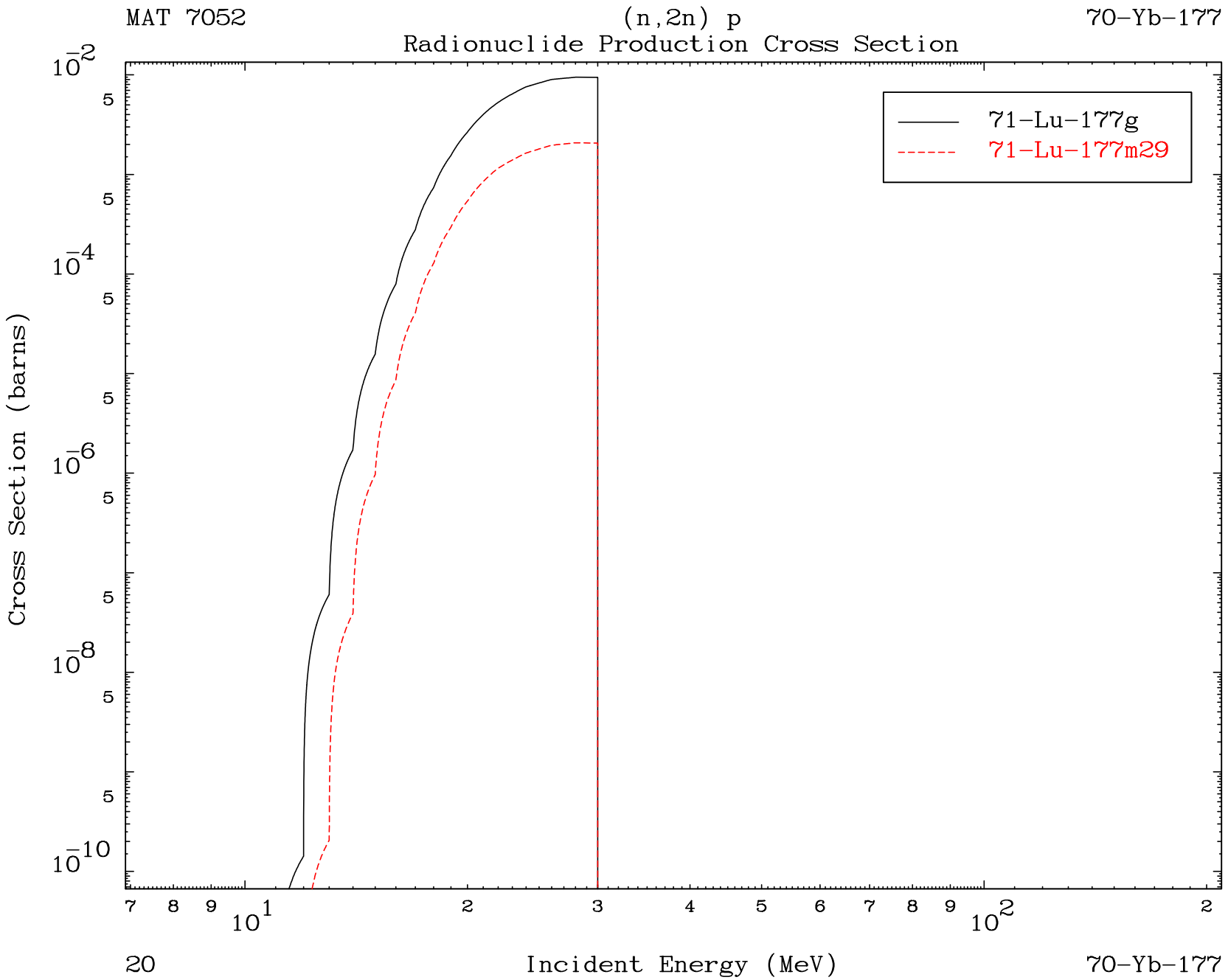

MAT 7052
(n,3n)
70-Yb-177
Radionuclide Production Cross Section
72-Hf-177g
72-Hf-177
Cross Section (barns)
Incident Energy (MeV)
15
70-Yb-177

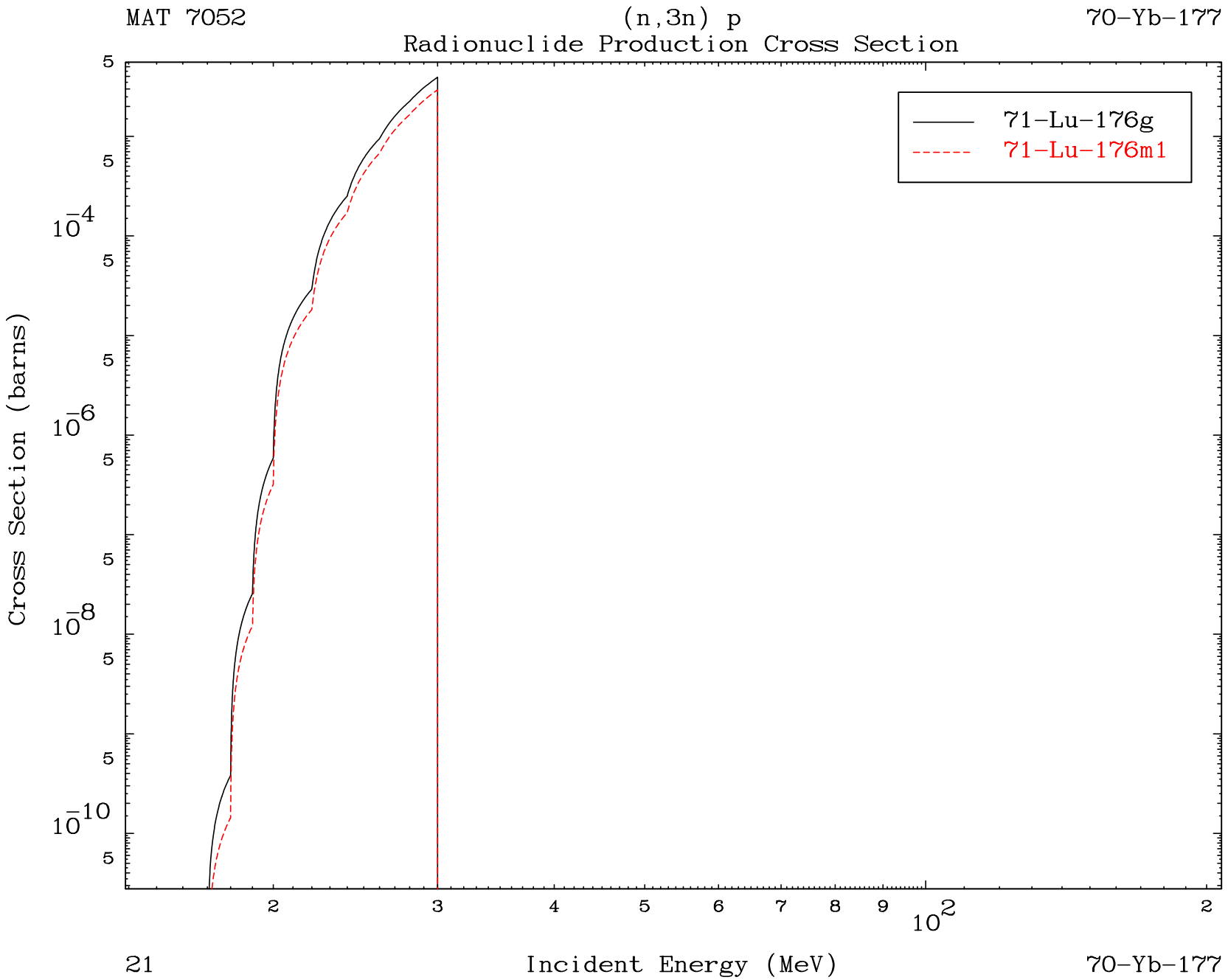

MAT 7052
(n,n') p
70-Yb-177
Radionuclide Production Cross Section
71-Lu-178g
71-Lu-178m3
Cross Section (barns)
10-4
10-6
10-8
10-10
2
4
6
8
101
2
4
6
8
102
2
16
Incident Energy (MeV)
70-Yb-177

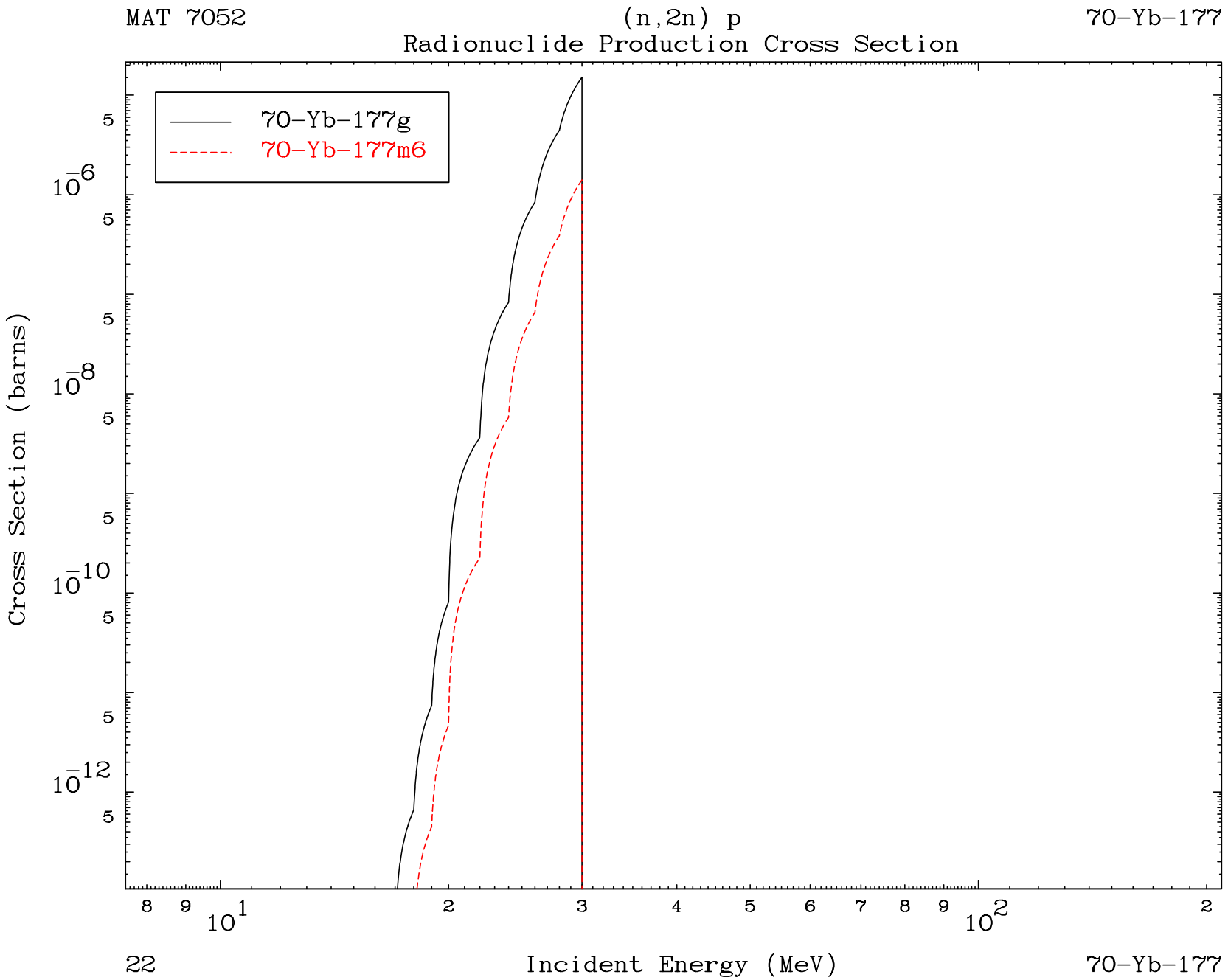

MAT 7052
(n,n') d
70-Yb-177
Radionuclide Production Cross Section
71-Lu-177g
71-Lu-177m29
Cross Section (barns)
Incident Energy (MeV)
17
70-Yb-177

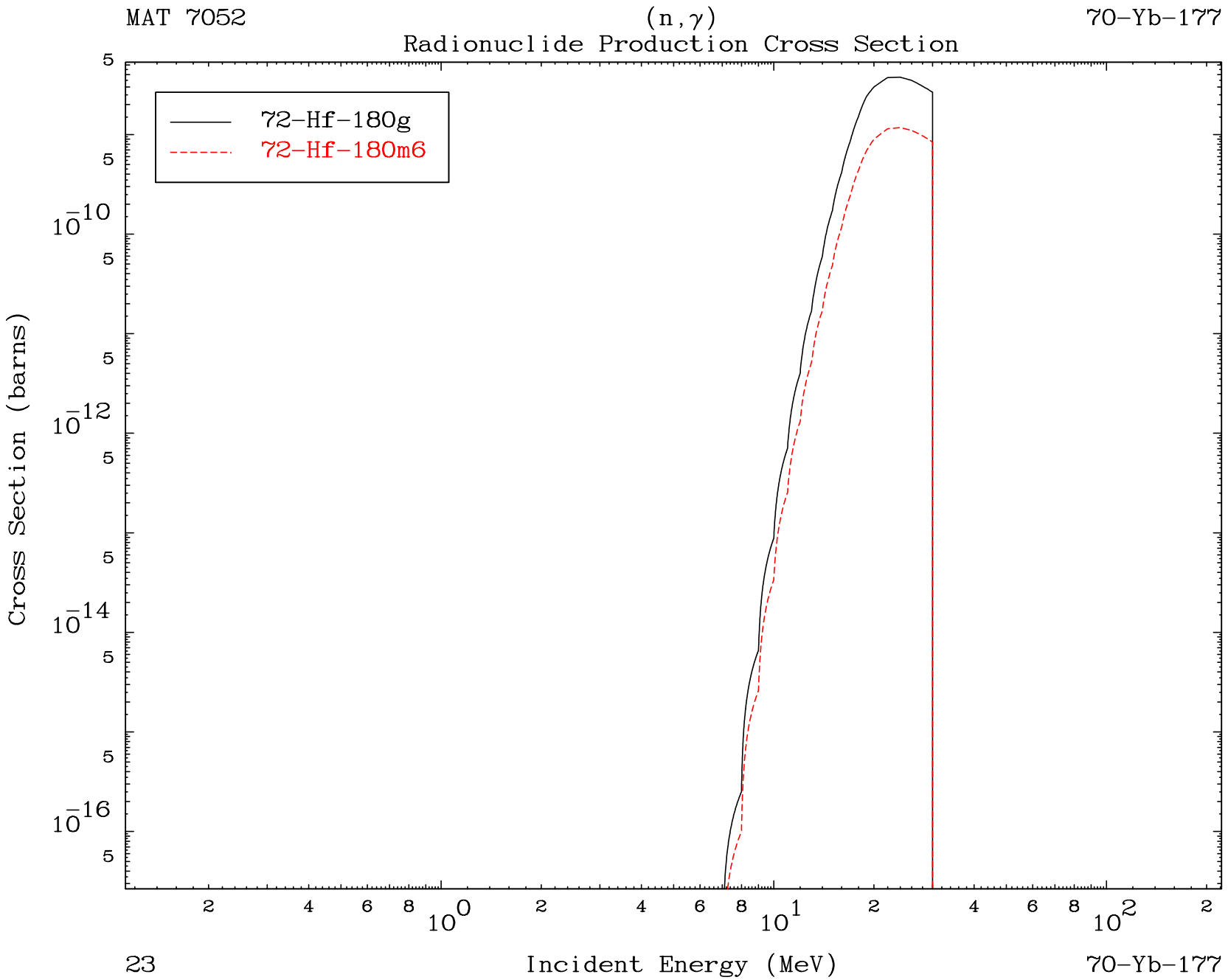

MAT 7052
(n,n') t
70-Yb-177
Radionuclide Production Cross Section
71-Lu-176g
71-Lu-176m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
18
70-Yb-177

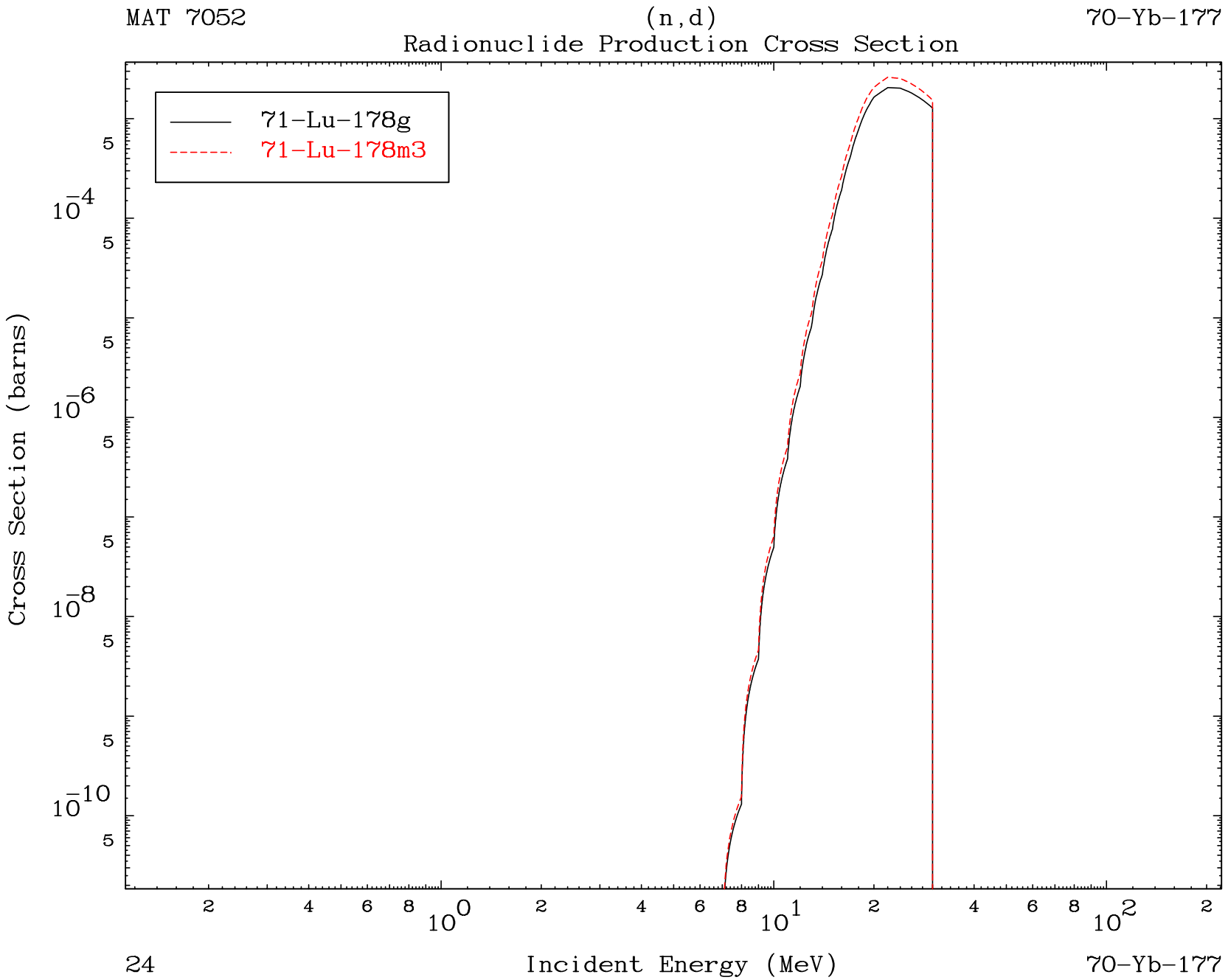

MAT 7052
(n,n') He-3
70-Yb-177
Radionuclide Production Cross Section
70-Yb-176g
70-Yb-176m5
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
19
70-Yb-177

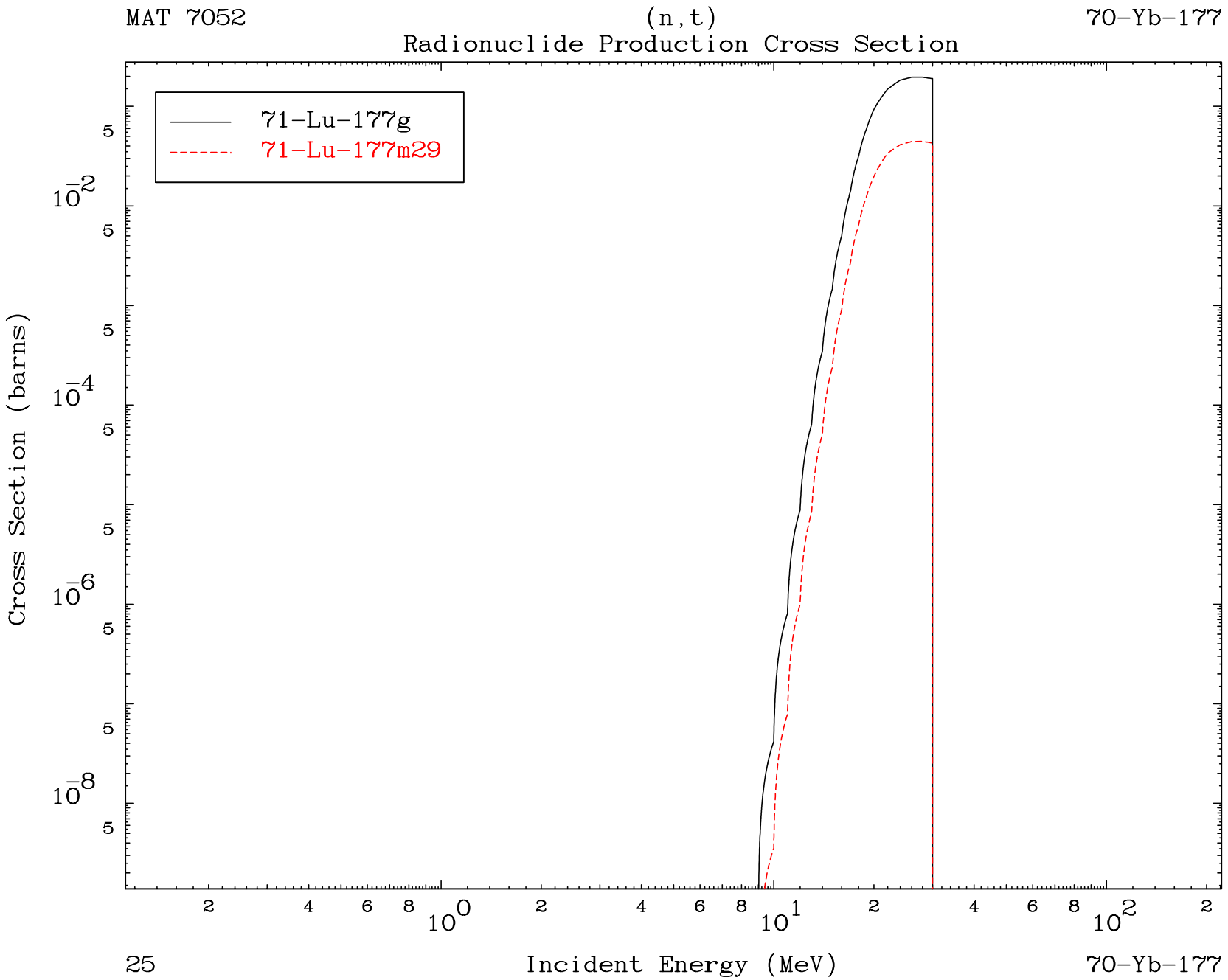

MAT 7052
(n,2n) p
70-Yb-177
Radionuclide Production Cross Section
71-Lu-177g
71-Lu-177m29
Cross Section (barns)
Incident Energy (MeV)
20
70-Yb-177

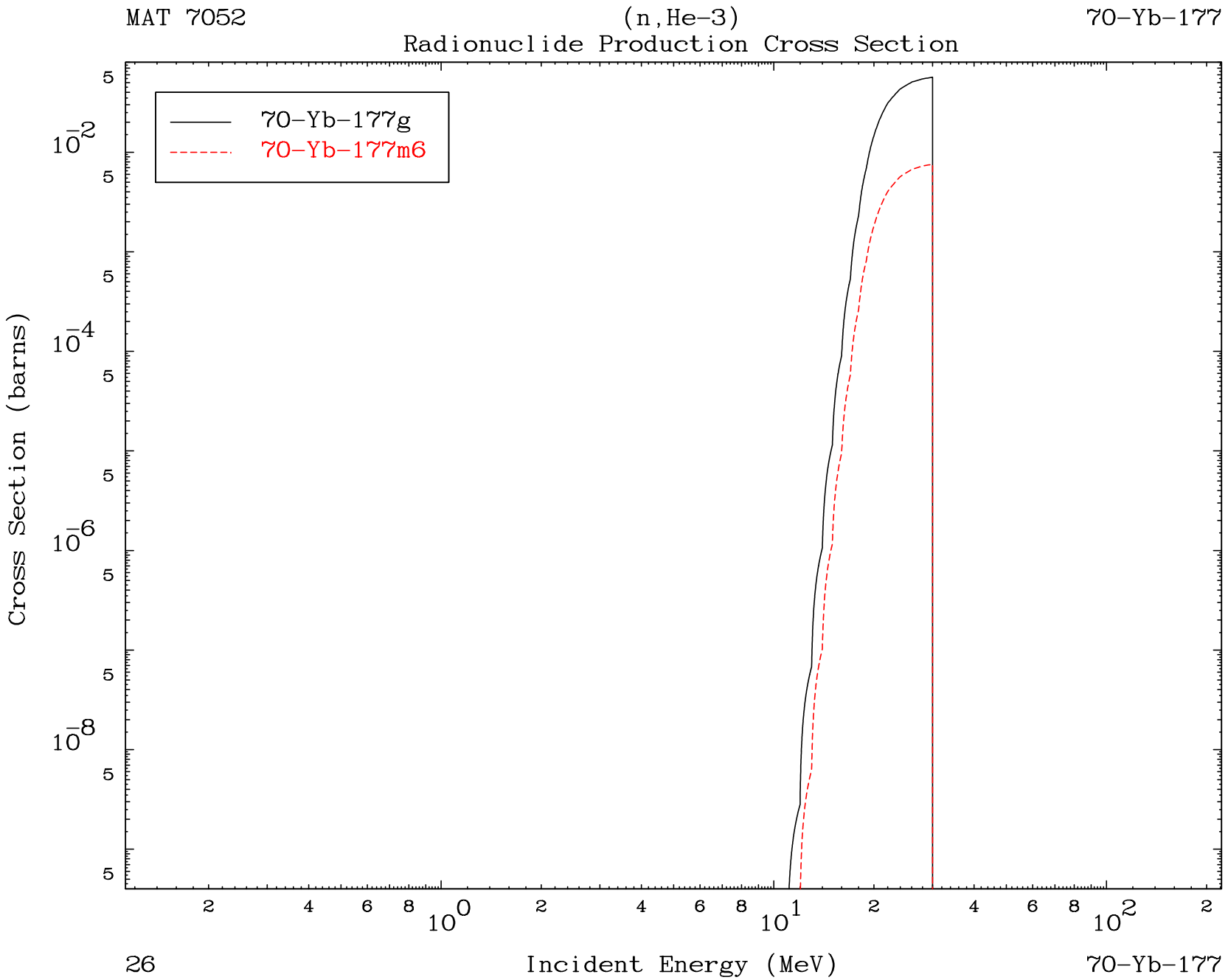

MAT 7052
(n,3n) p
70-Yb-177
Radionuclide Production Cross Section
71-Lu-176g
71-Lu-176m1
Cross Section (barns)
Incident Energy (MeV)
21
70-Yb-177

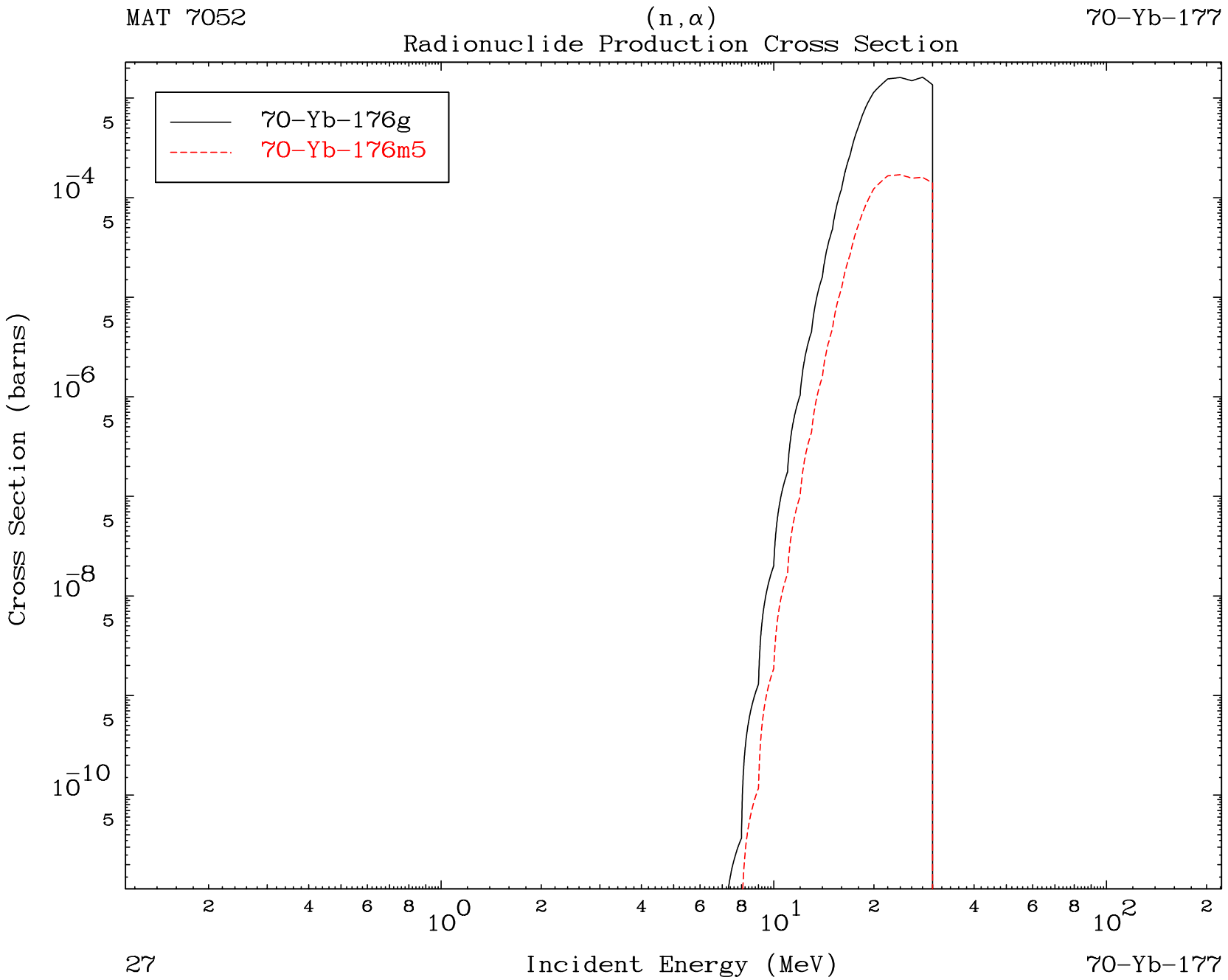

MAT 7052
(n,2n) p
70-Yb-177
Radionuclide Production Cross Section
70-Yb-177g
70-Yb-177m6
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
22
Incident Energy (MeV)
70-Yb-177

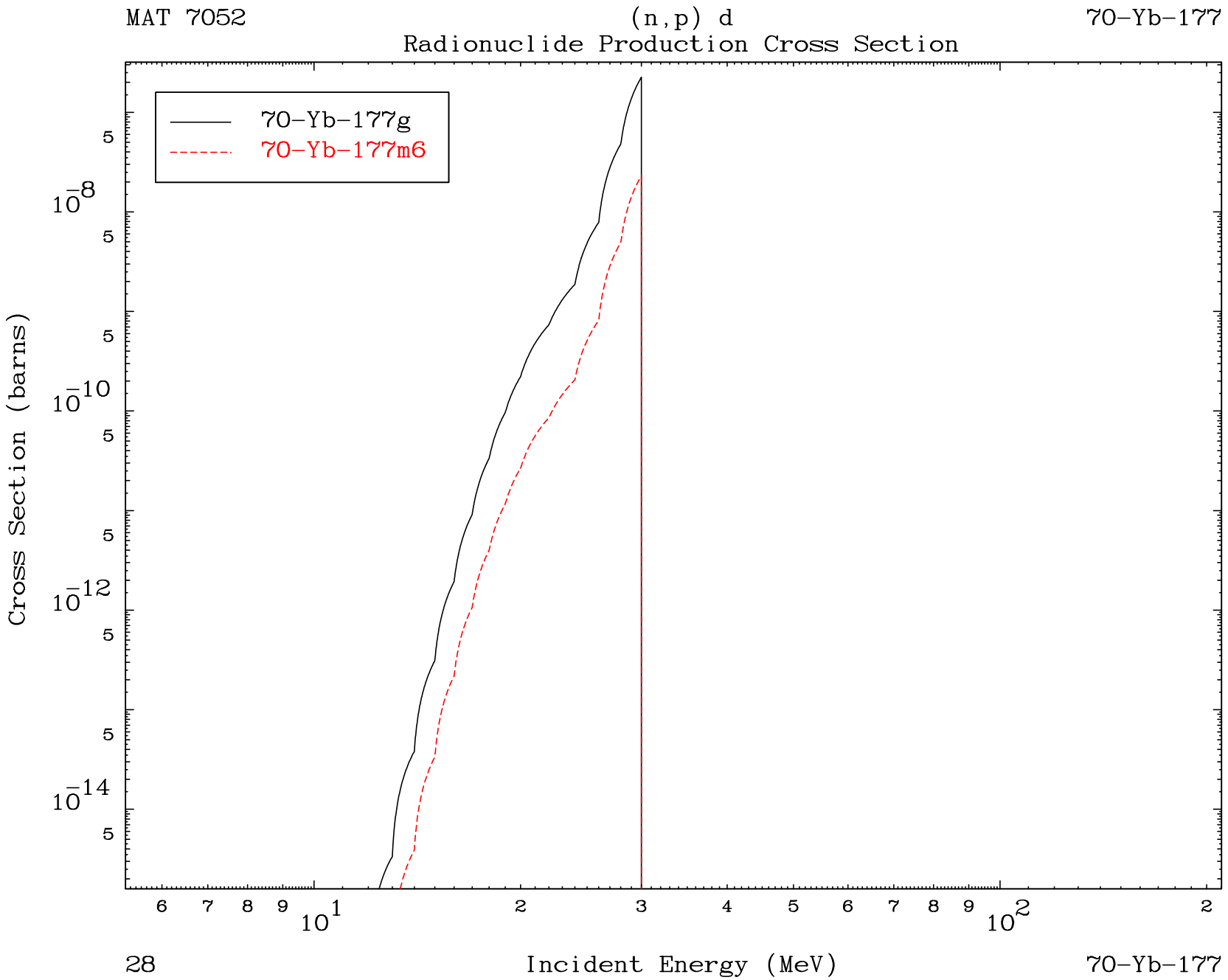

MAT 7052
(n,γ)
70-Yb-177
Radionuclide Production Cross Section
72-Hf-180g
72-Hf-180m6
Cross Section (barns)
Incident Energy (MeV)
23
70-Yb-177

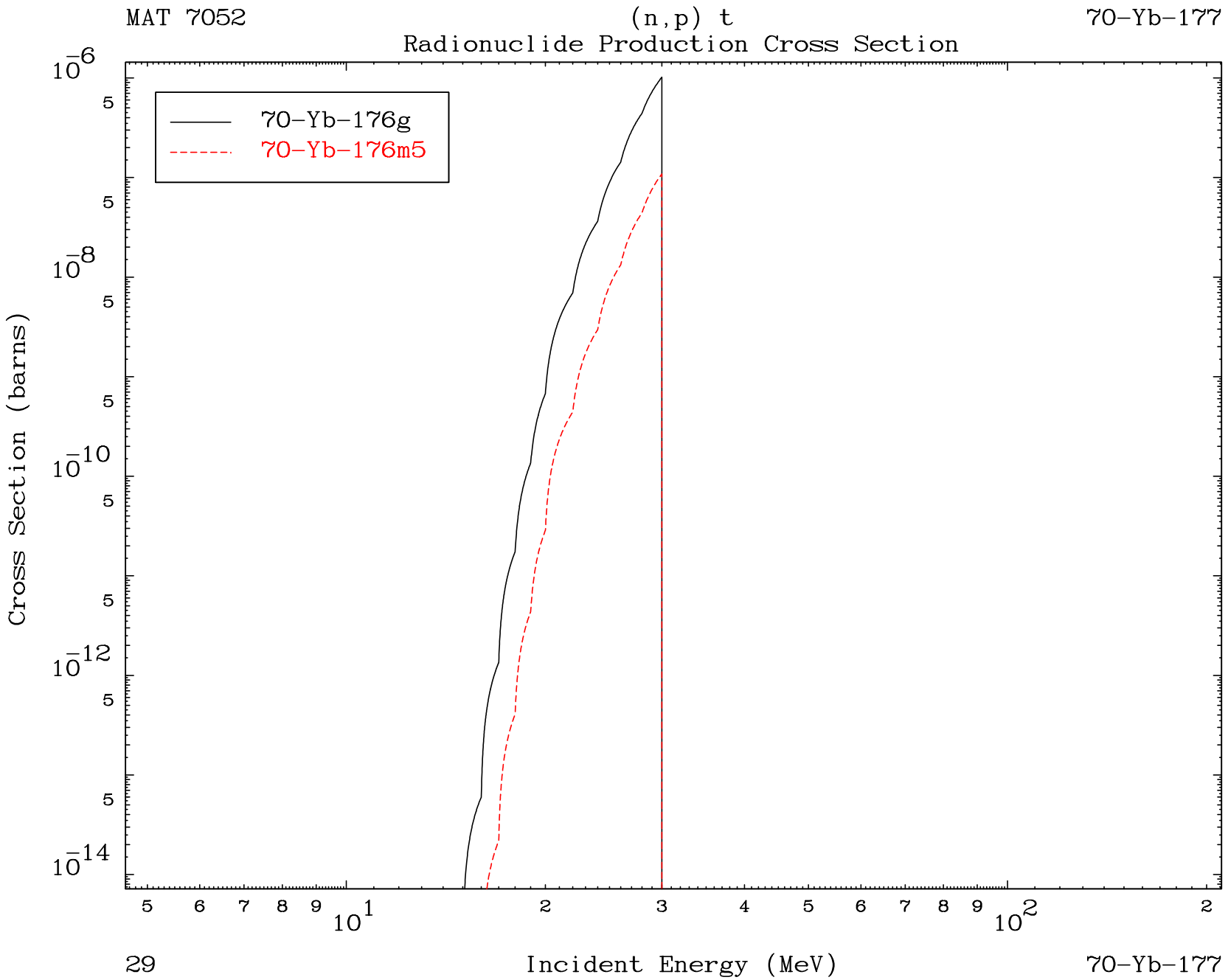

MAT 7052
(n,d)
70-Yb-177
Radionuclide Production Cross Section
71-Lu-178g
71-Lu-178m3
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
24
70-Yb-177


MAT 7052
(n,t)
70-Yb-177
Radionuclide Production Cross Section
71-Lu-177g
71-Lu-177m29
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
25
70-Yb-177


MAT 7052
(n,He-3)
70-Yb-177
Radionuclide Production Cross Section
70-Yb-177g
70-Yb-177m6
Cross Section (barns)
Incident Energy (MeV)
26
70-Yb-177


MAT 7052
(n,α)
70-Yb-177
Radionuclide Production Cross Section
70-Yb-176g
70-Yb-176m5
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
27
70-Yb-177


MAT 7052
(n,p) d
70-Yb-177
Radionuclide Production Cross Section
70-Yb-177g
70-Yb-177m6
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
6 7 8 9
10^1
2 3 4 5 6 7 8 9
10^2
2
28
Incident Energy (MeV)
70-Yb-177


MAT 7052
(n,p) t
70-Yb-177
Radionuclide Production Cross Section
70-Yb-176g
70-Yb-176m5
Cross Section (barns)
Incident Energy (MeV)
29
70-Yb-177