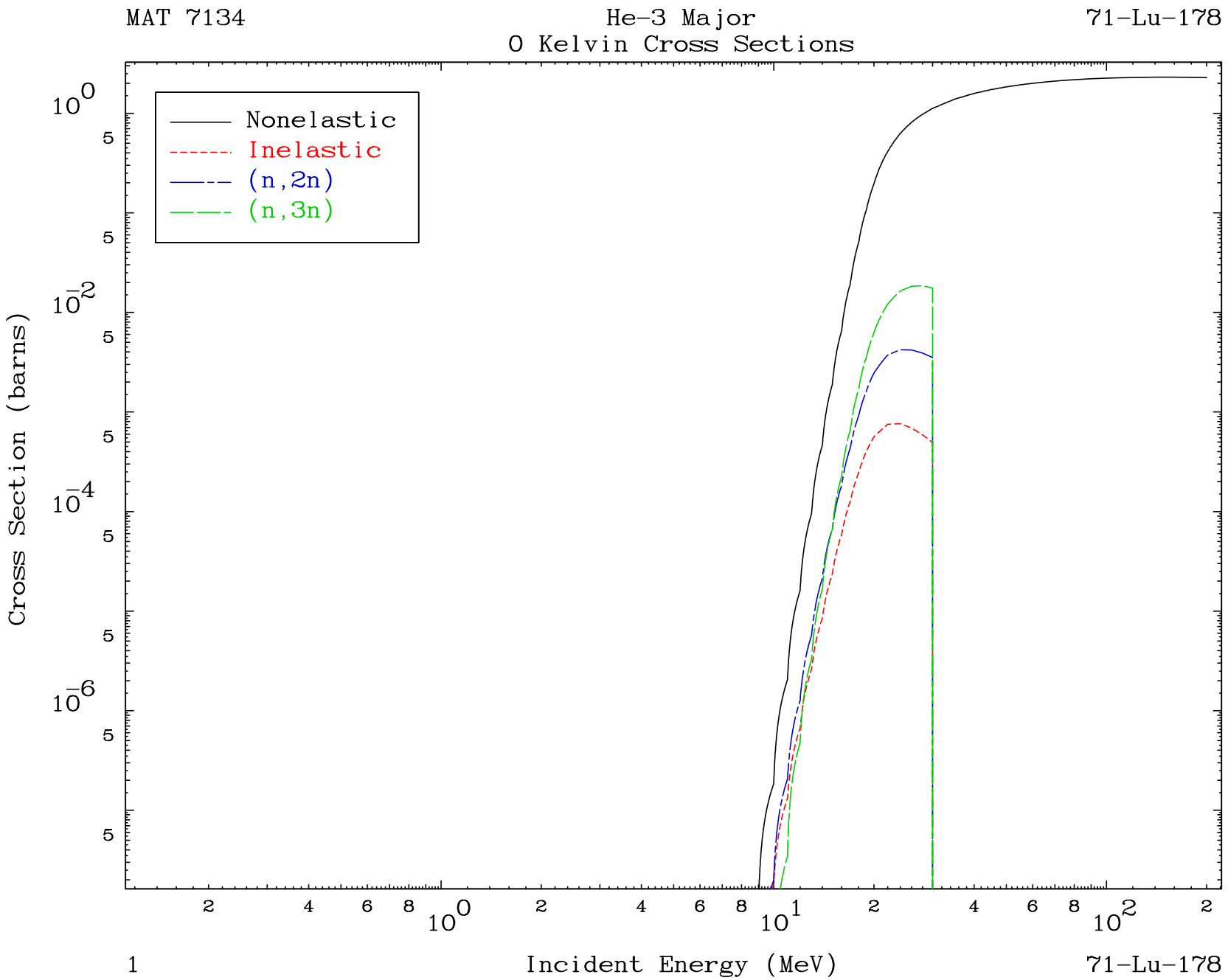
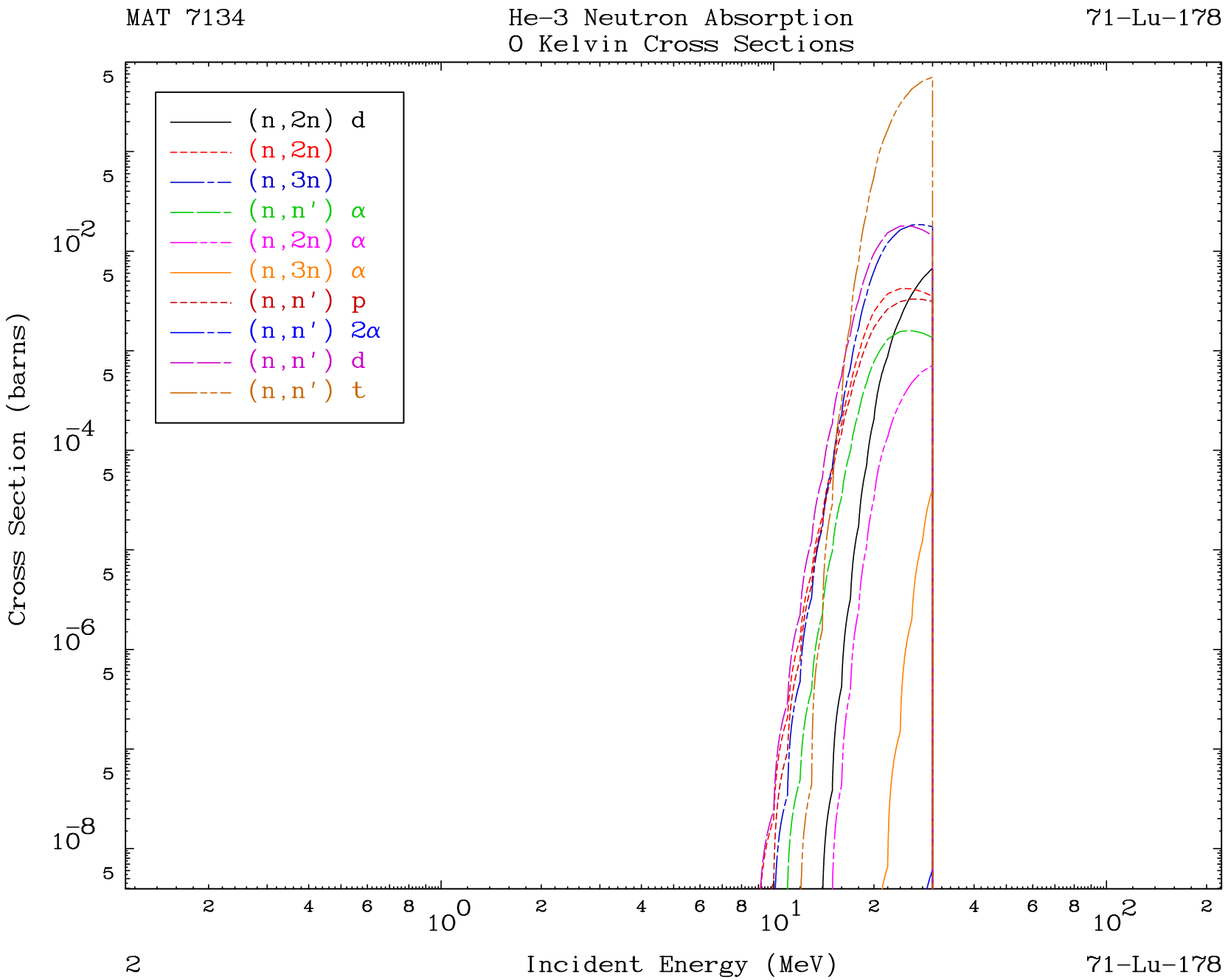
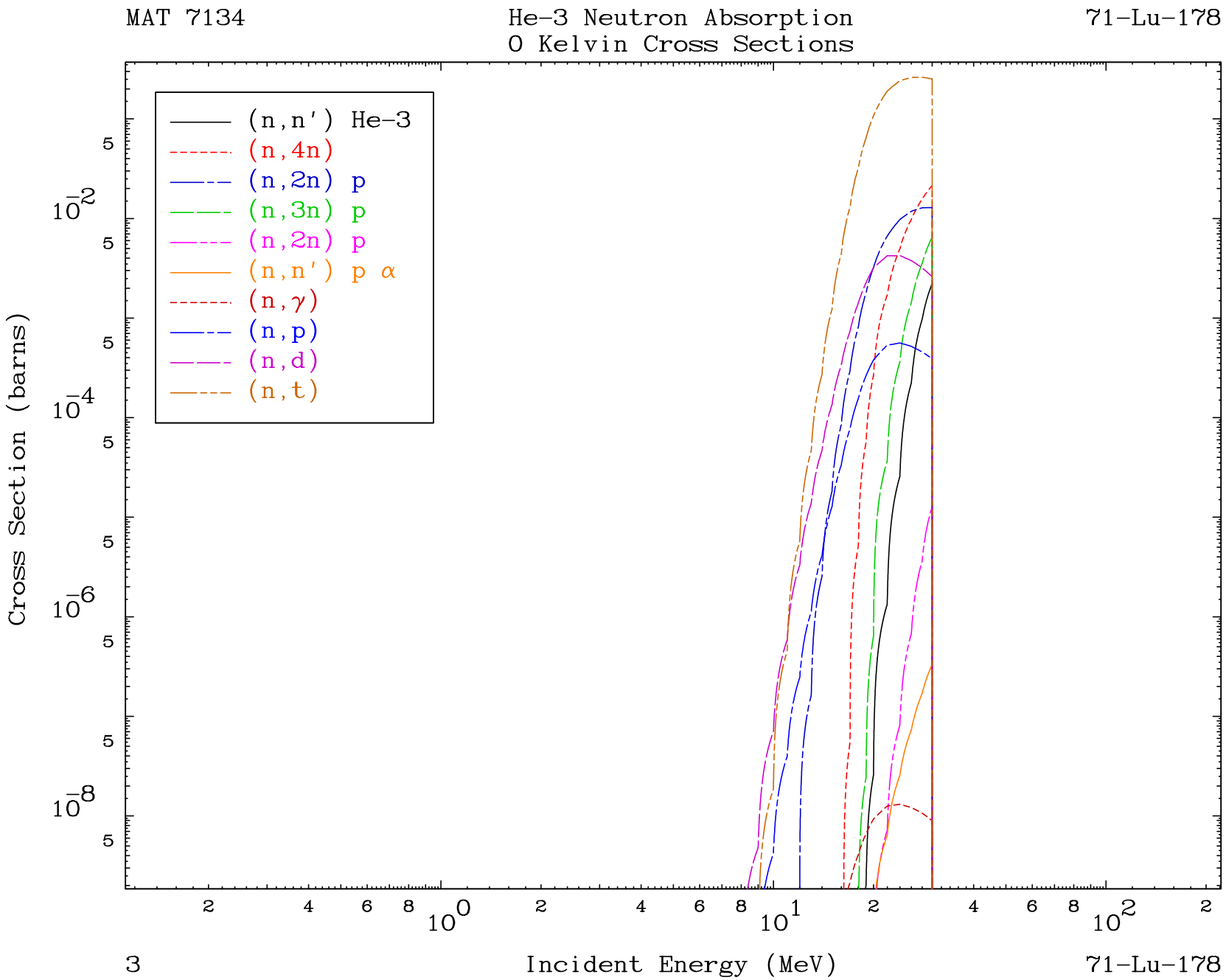
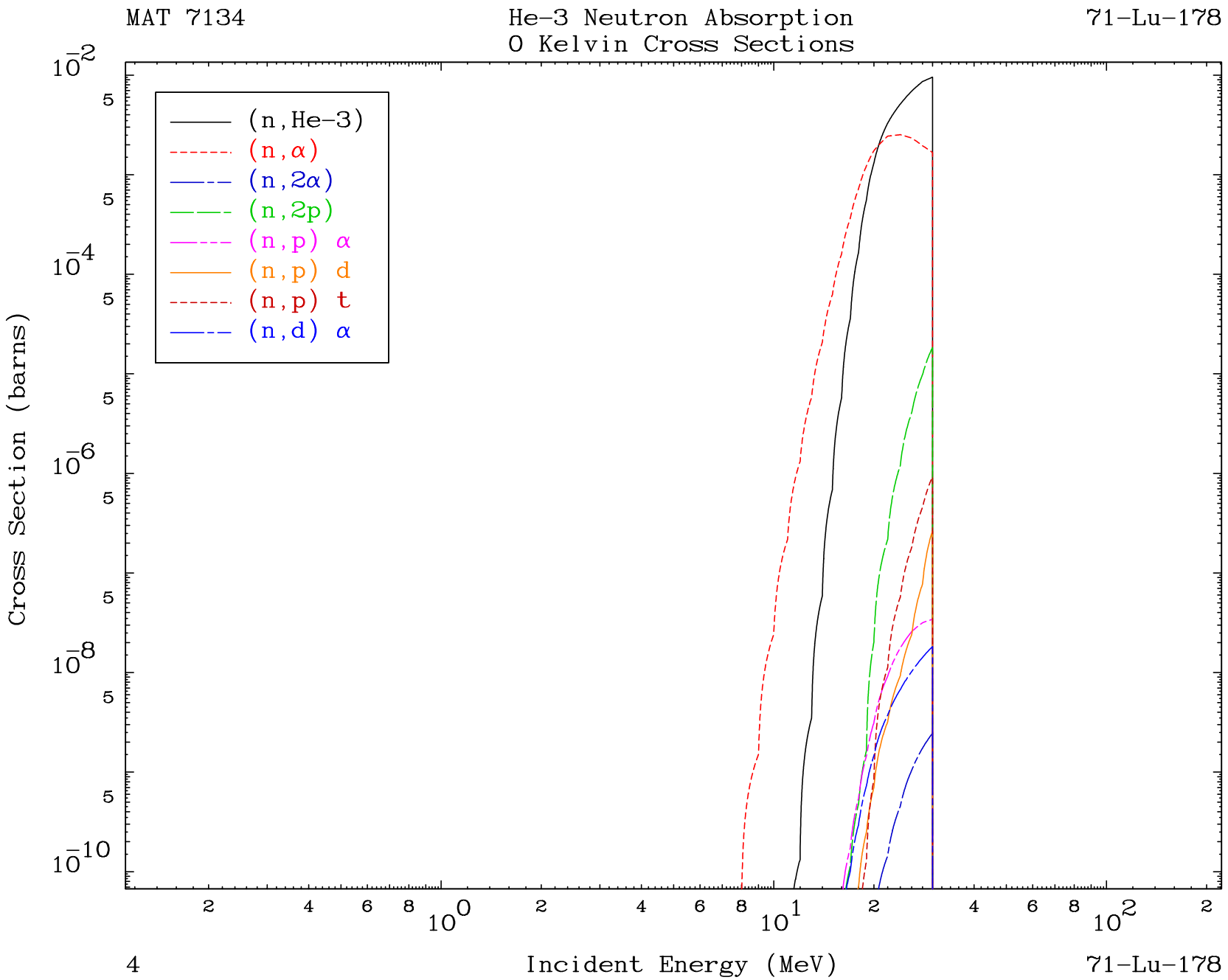
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

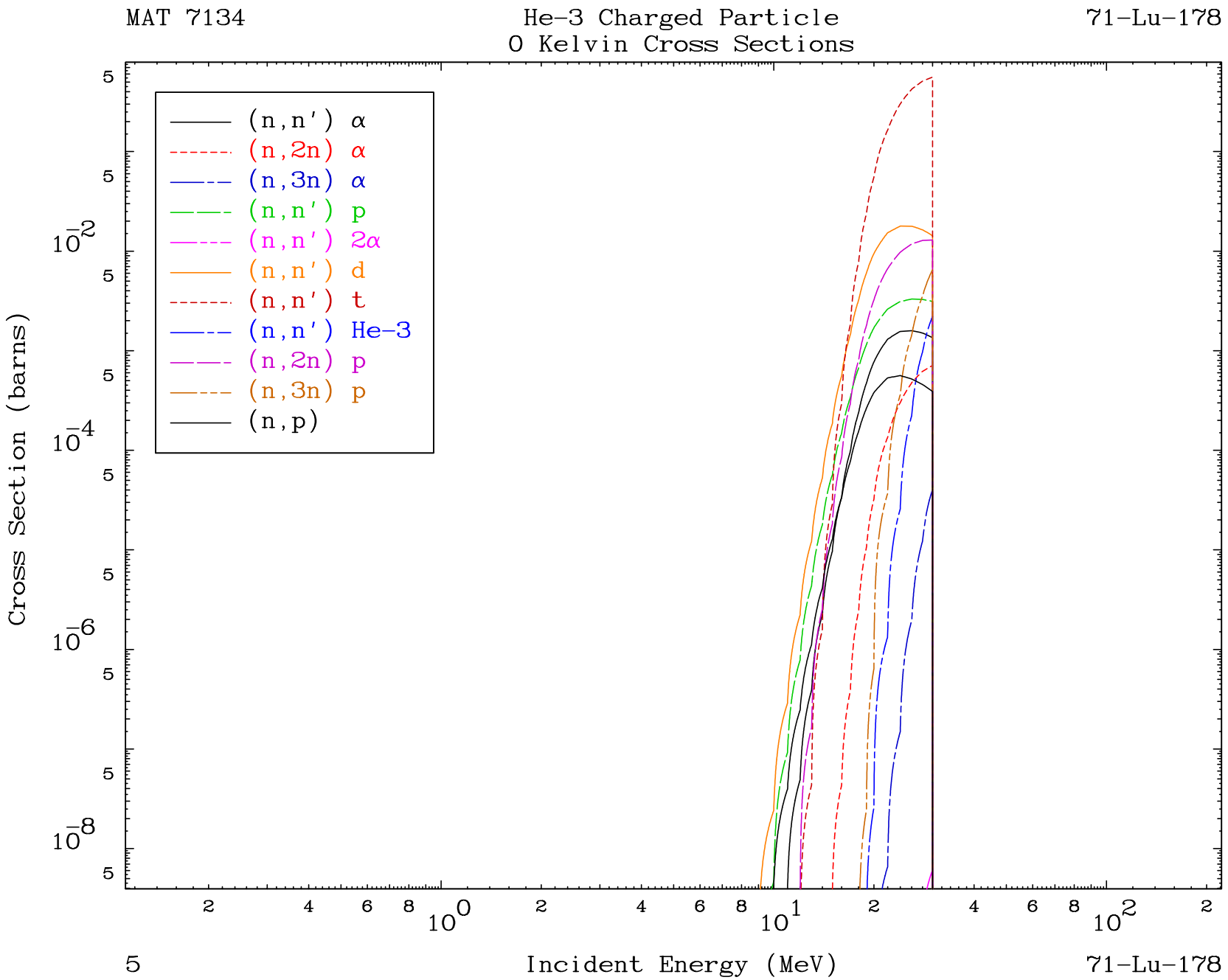
Press Mouse Button to Start

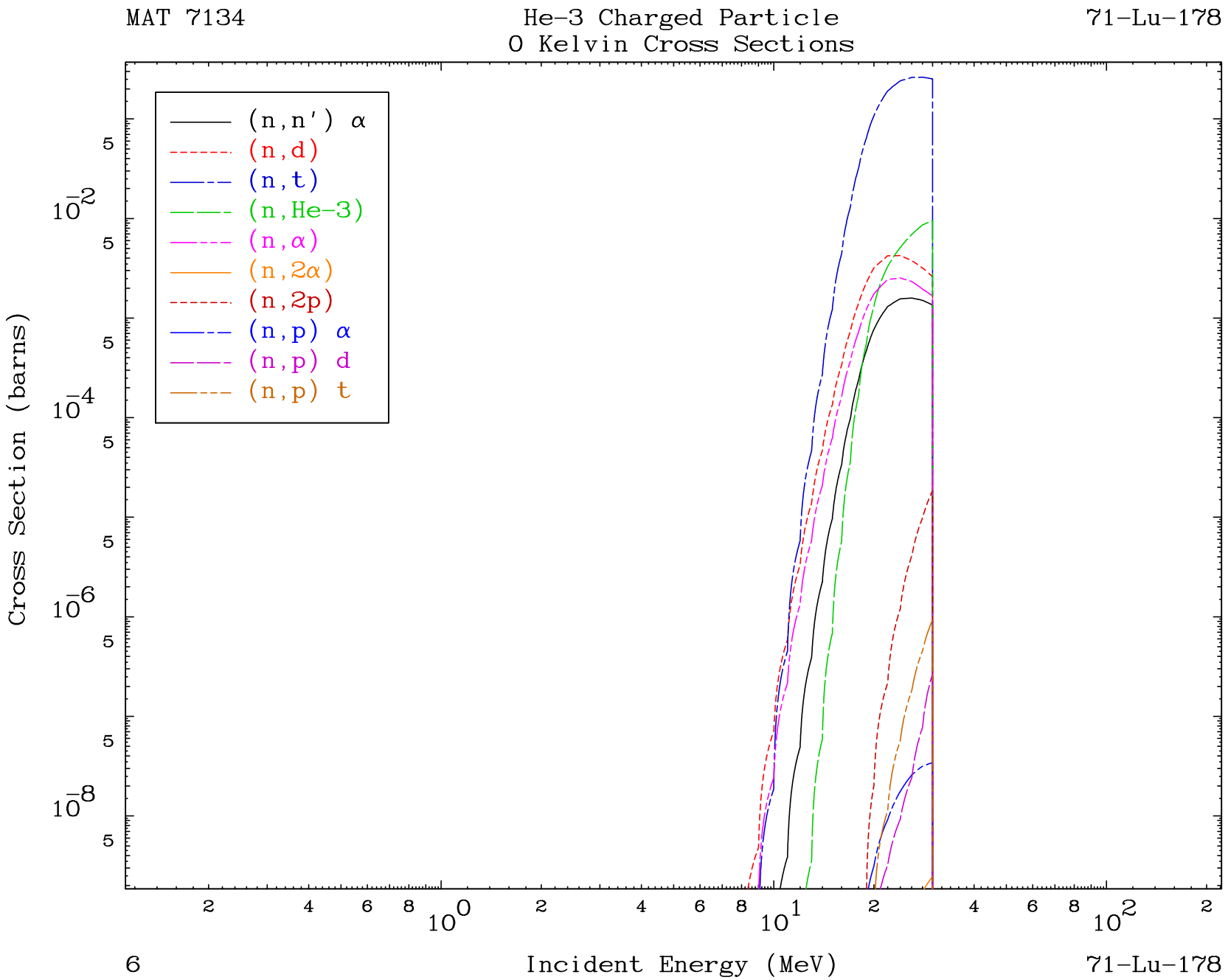

MAT 7134
He-3 Major
71-Lu-178
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
Cross Section (barns)
Incident Energy (MeV)
71-Lu-178

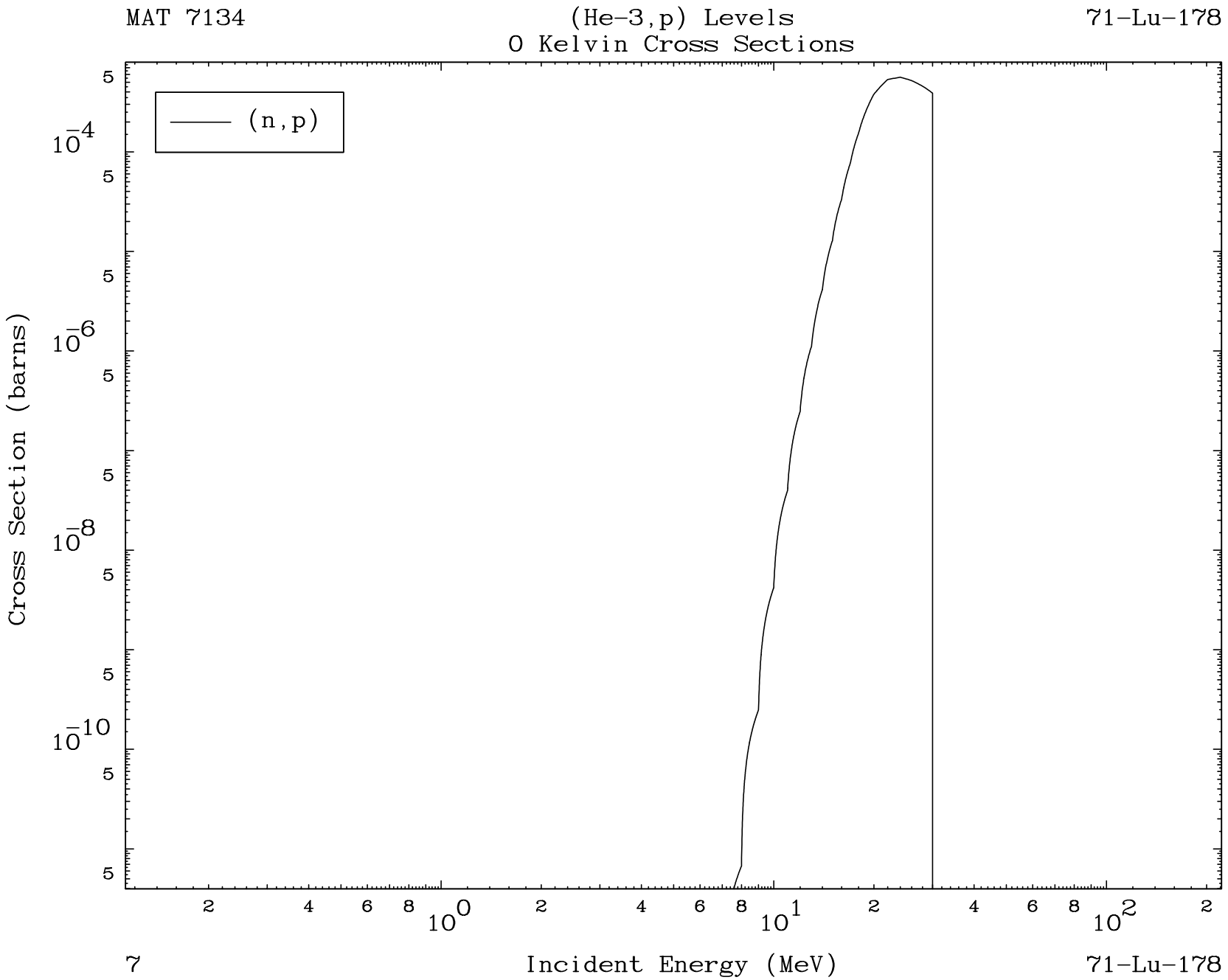

MAT 7134
He-3 Neutron Absorption
0 Kelvin Cross Sections
71-Lu-178
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
71-Lu-178
2

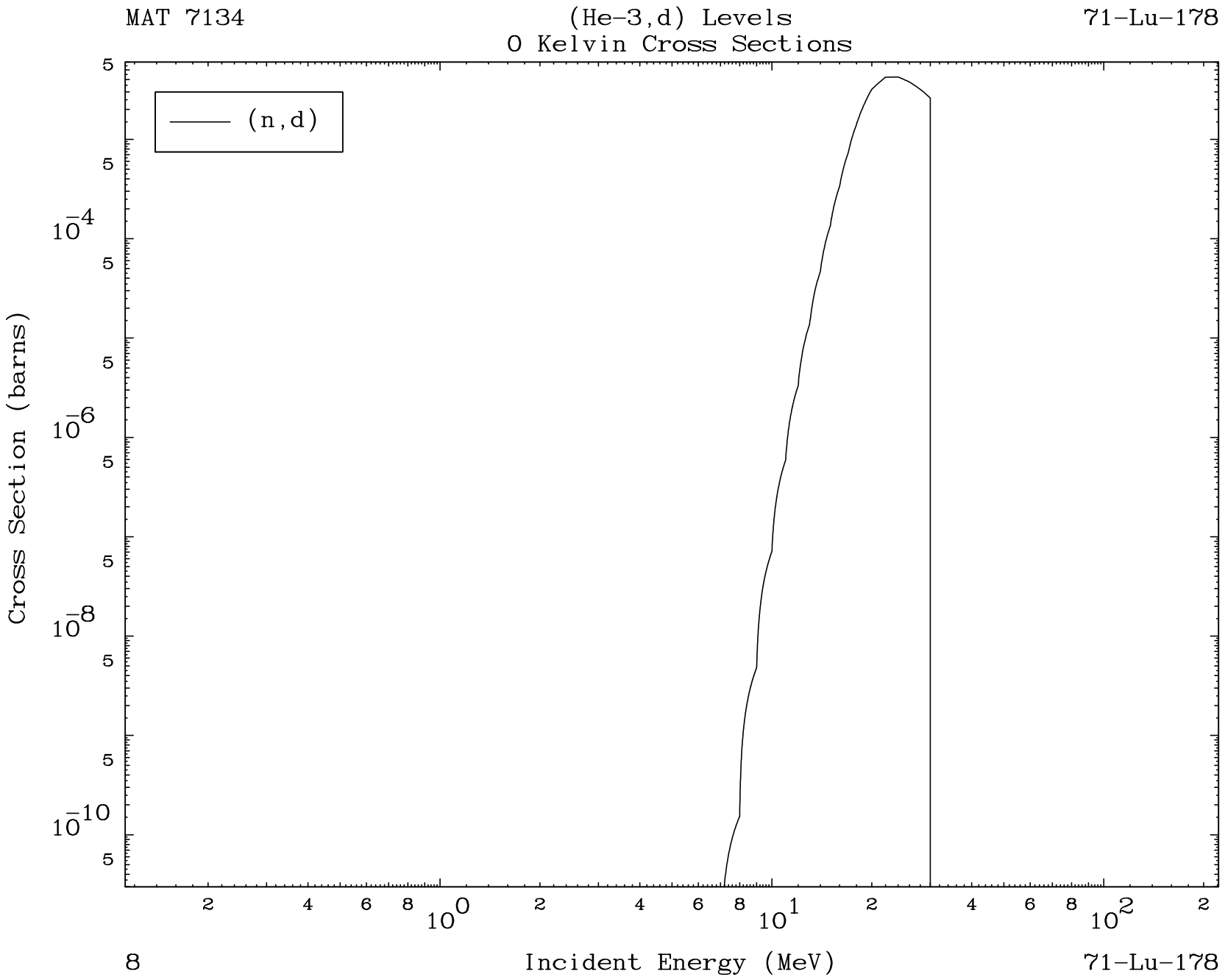

MAT 7134
He-3 Neutron Absorption
0 Kelvin Cross Sections
71-Lu-178
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
3
71-Lu-178

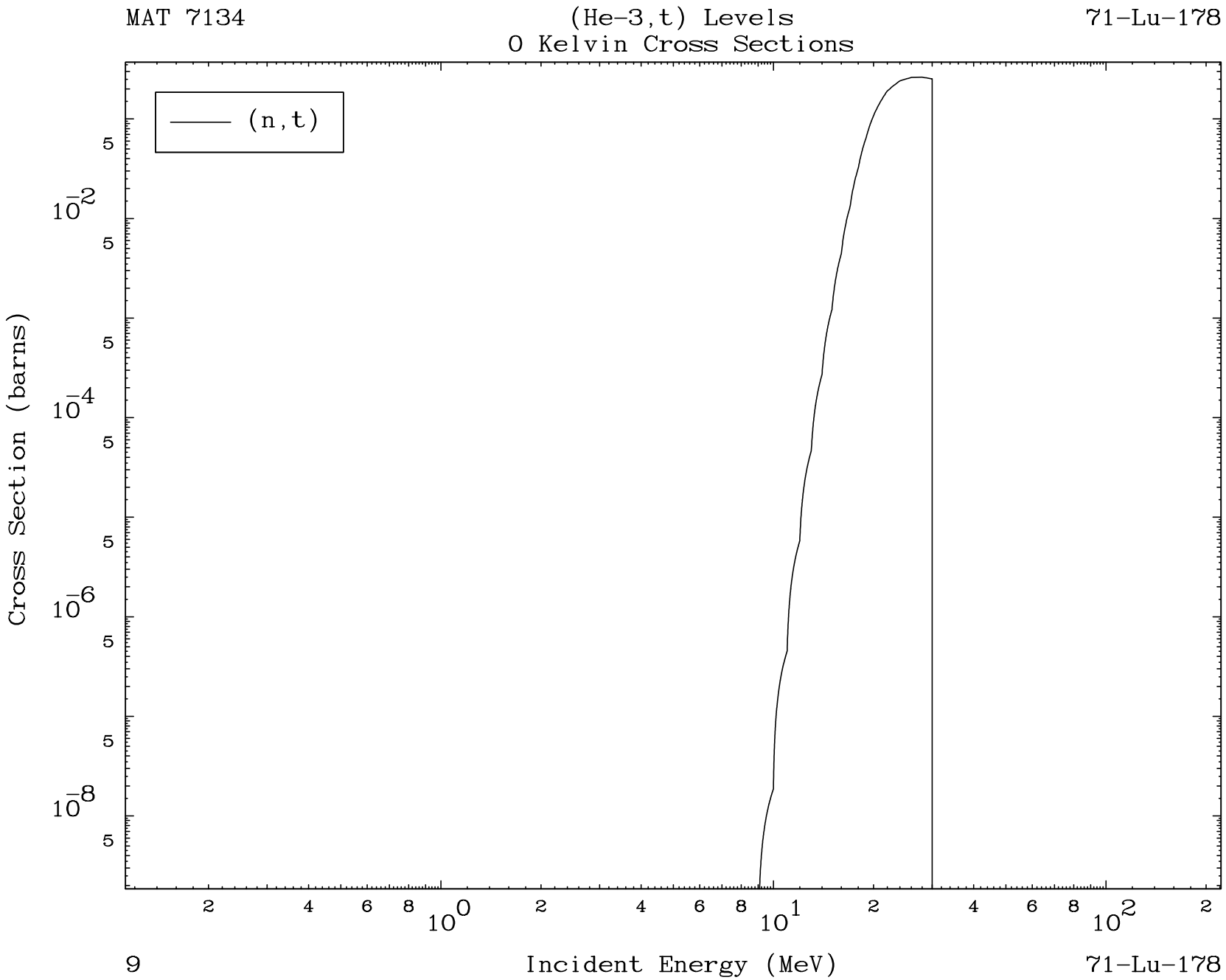

MAT 7134
He-3 Neutron Absorption
0 Kelvin Cross Sections
71-Lu-178
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
71-Lu-178

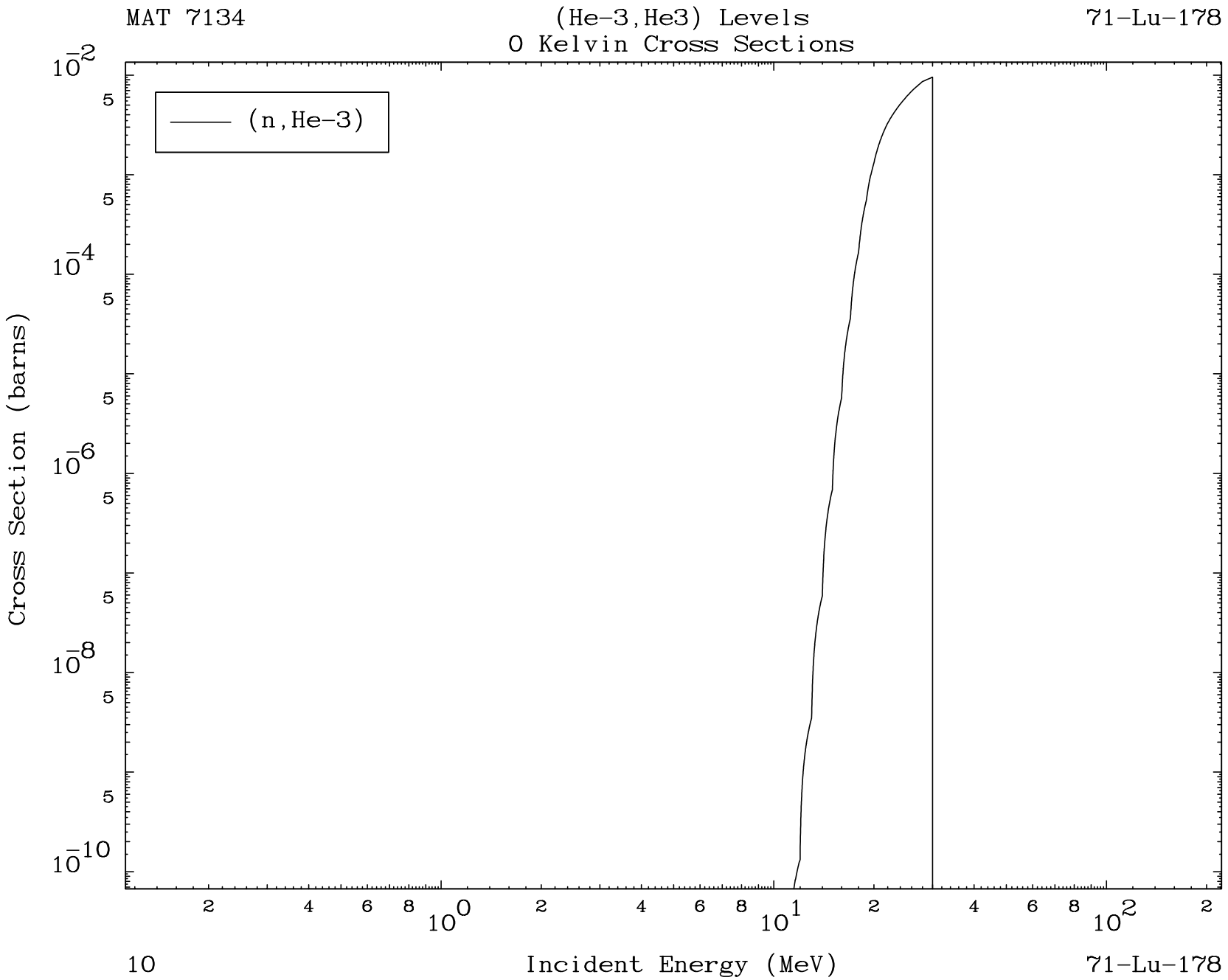

MAT 7134
He-3 Charged Particle
0 Kelvin Cross Sections
71-Lu-178
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
71-Lu-178

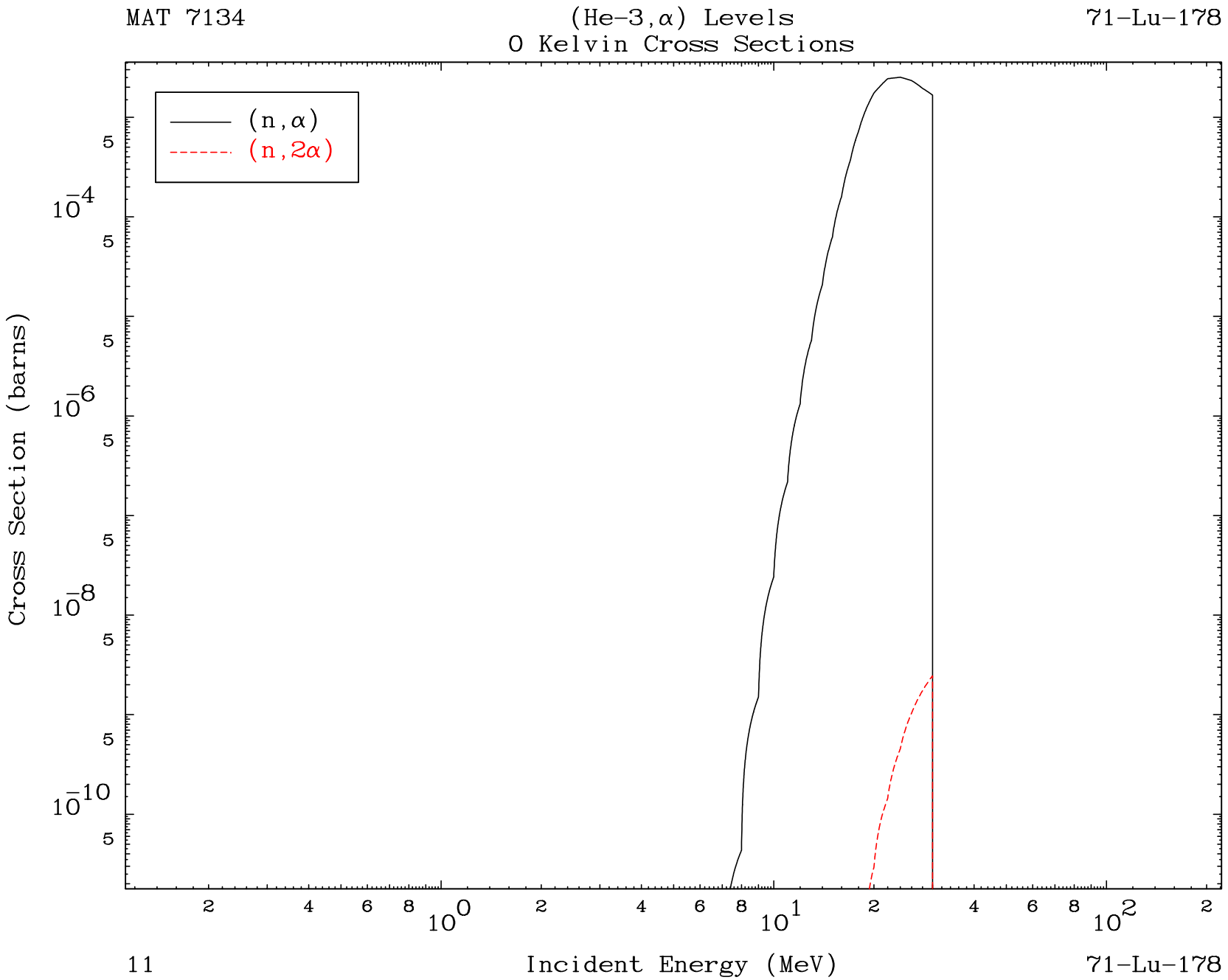

MAT 7134
He-3 Charged Particle
0 Kelvin Cross Sections
71-Lu-178
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
Cross Section (barns)
Incident Energy (MeV)
6
71-Lu-178

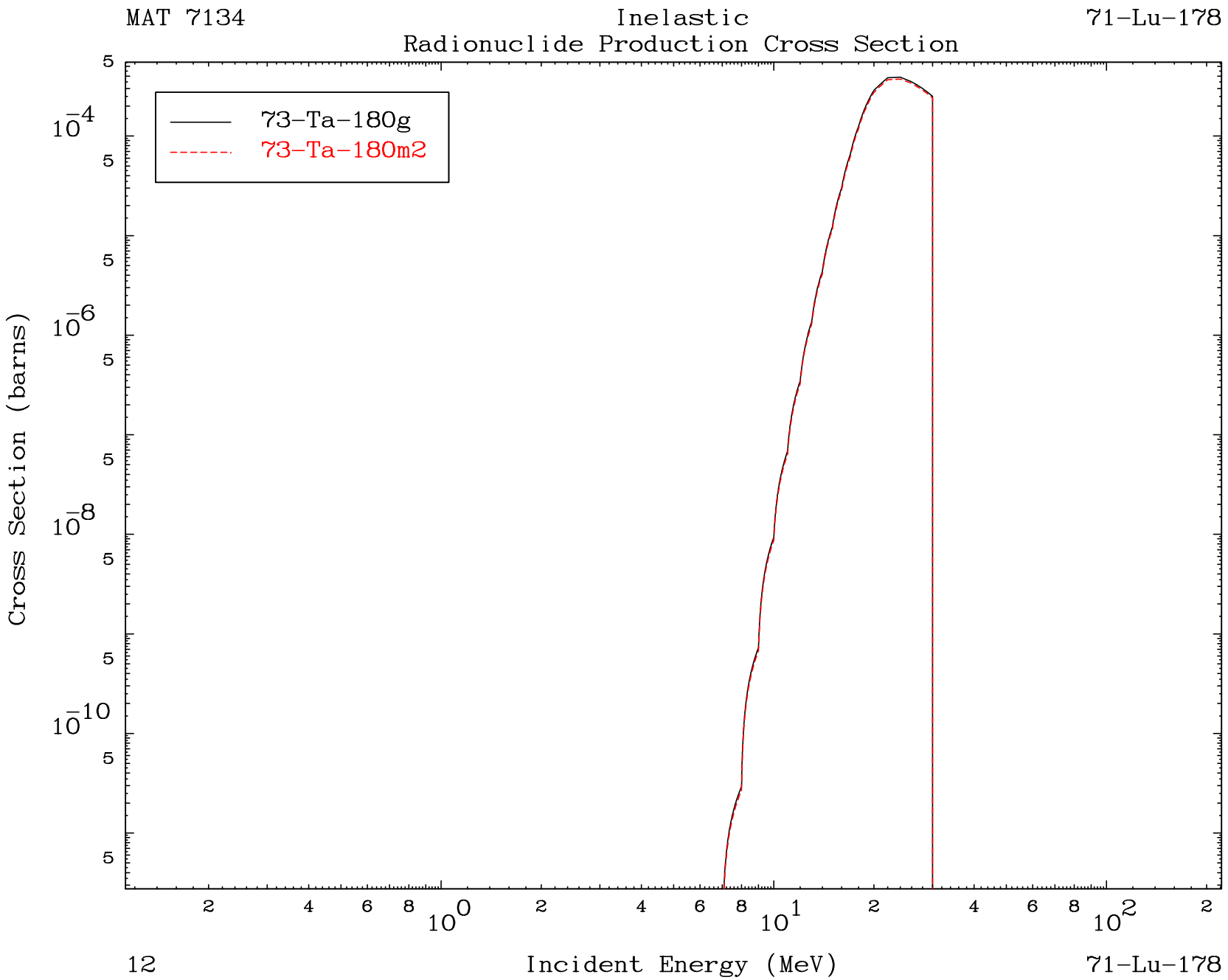

MAT 7134
(He-3,p) Levels
71-Lu-178
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
7
71-Lu-178

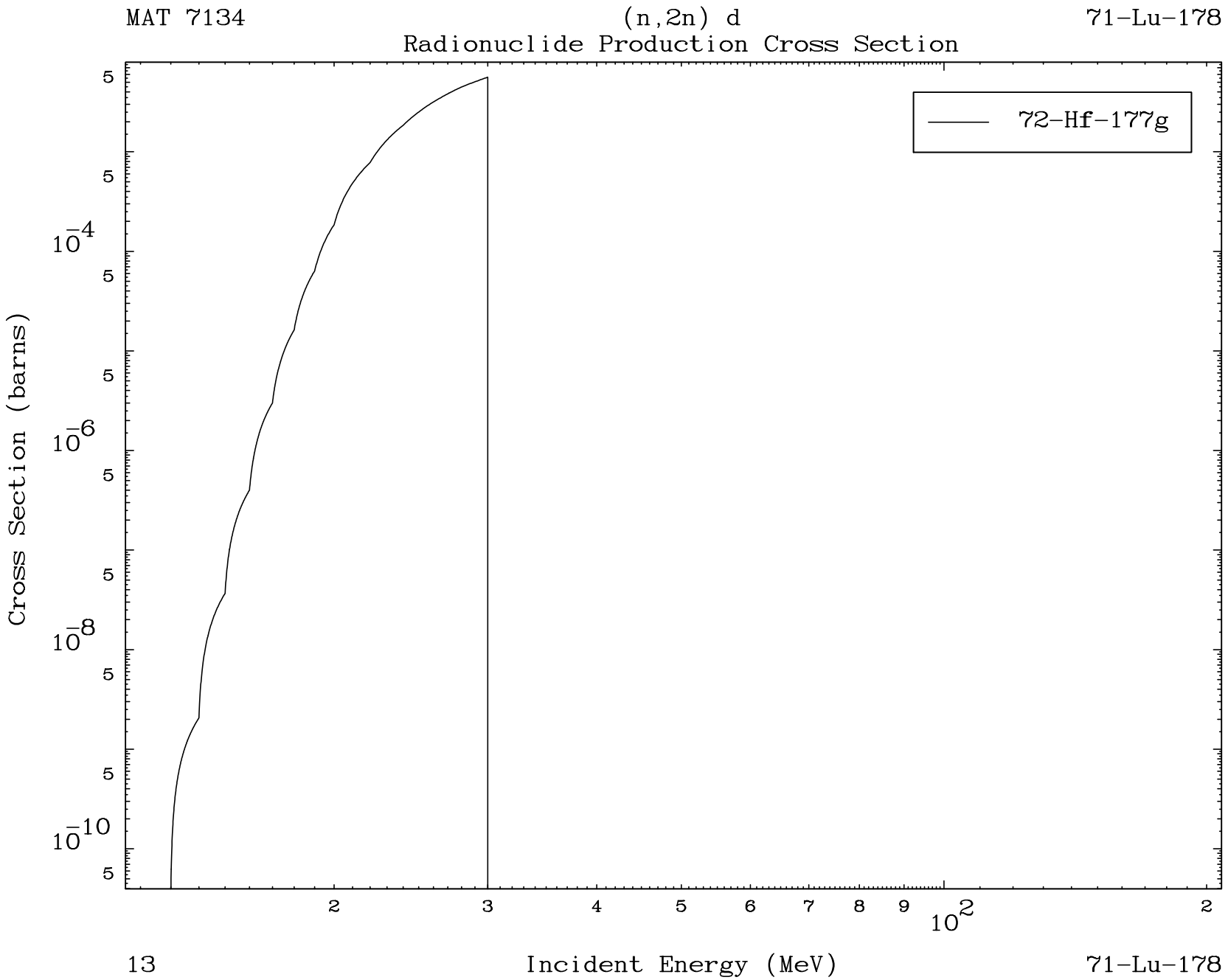

MAT 7134
(He-3,d) Levels
71-Lu-178
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
71-Lu-178

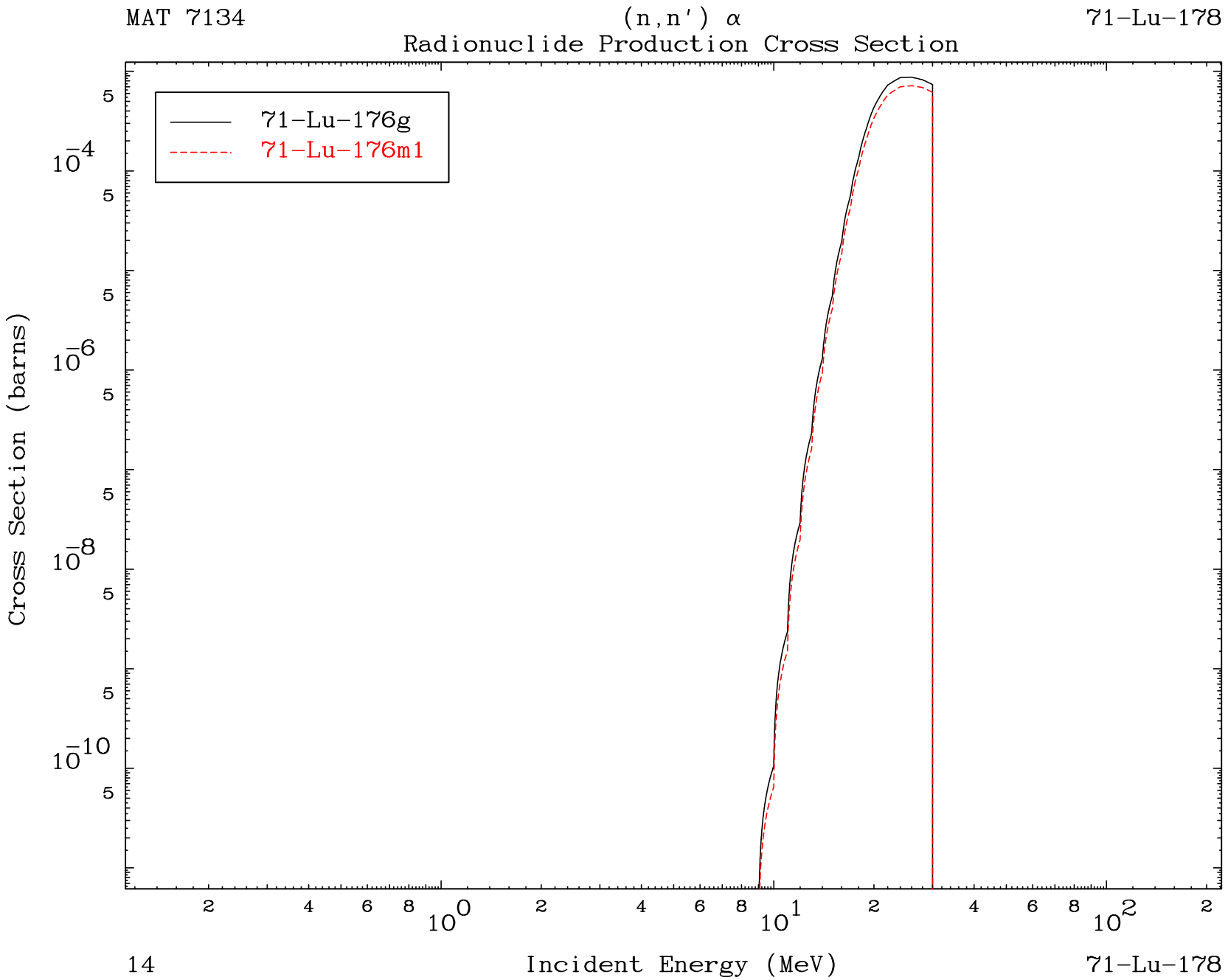

MAT 7134
(He-3,t) Levels
71-Lu-178
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
9
71-Lu-178

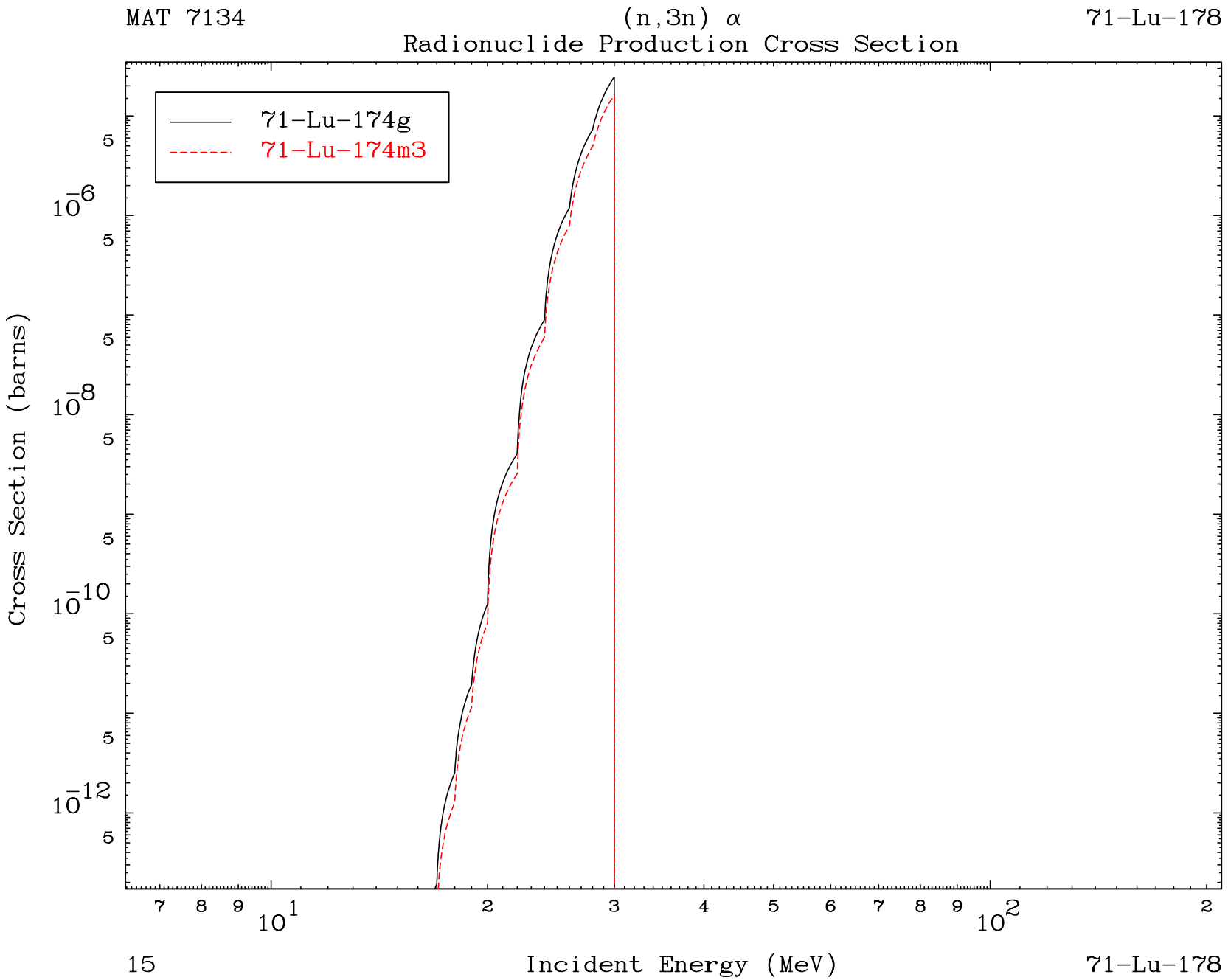

MAT 7134
(He-3,He3) Levels
71-Lu-178
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
71-Lu-178

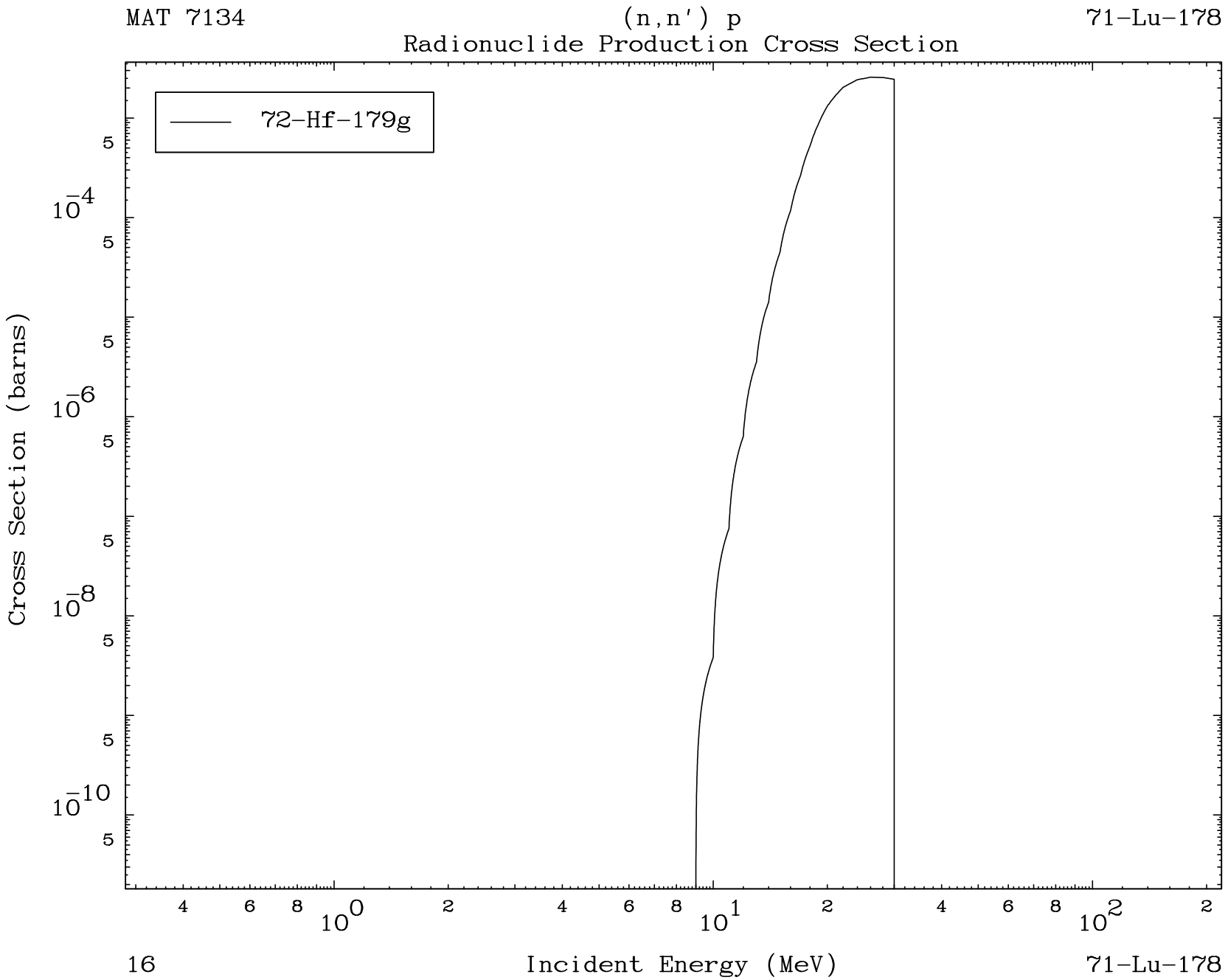

MAT 7134
(He-3,α) Levels
0 Kelvin Cross Sections
71-Lu-178
(n,α)
(n,2α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
11
71-Lu-178

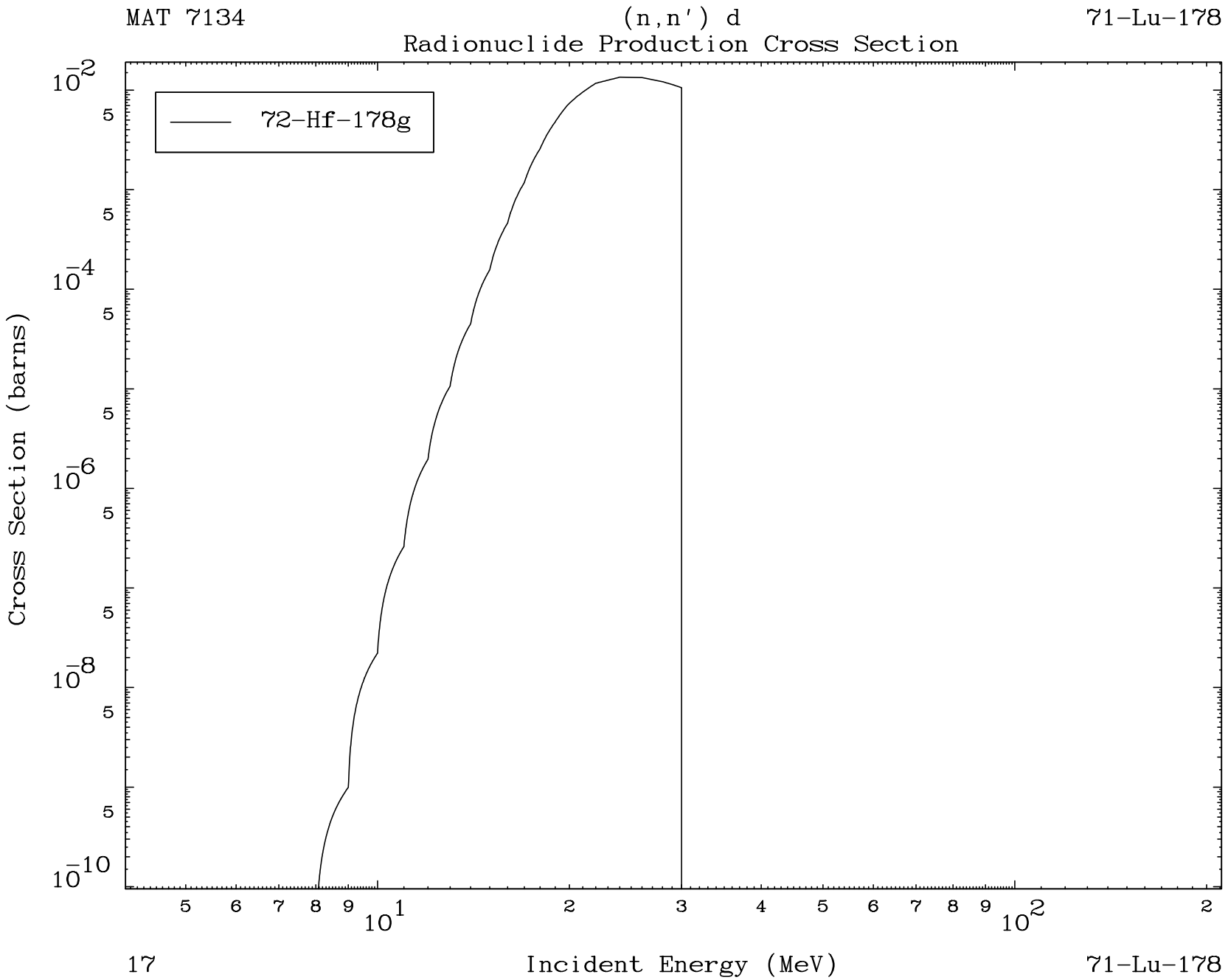

MAT 7134
Inelastic
71-Lu-178
Radionuclide Production Cross Section
73-Ta-180g
73-Ta-180m2
Cross Section (barns)
Incident Energy (MeV)
12
71-Lu-178

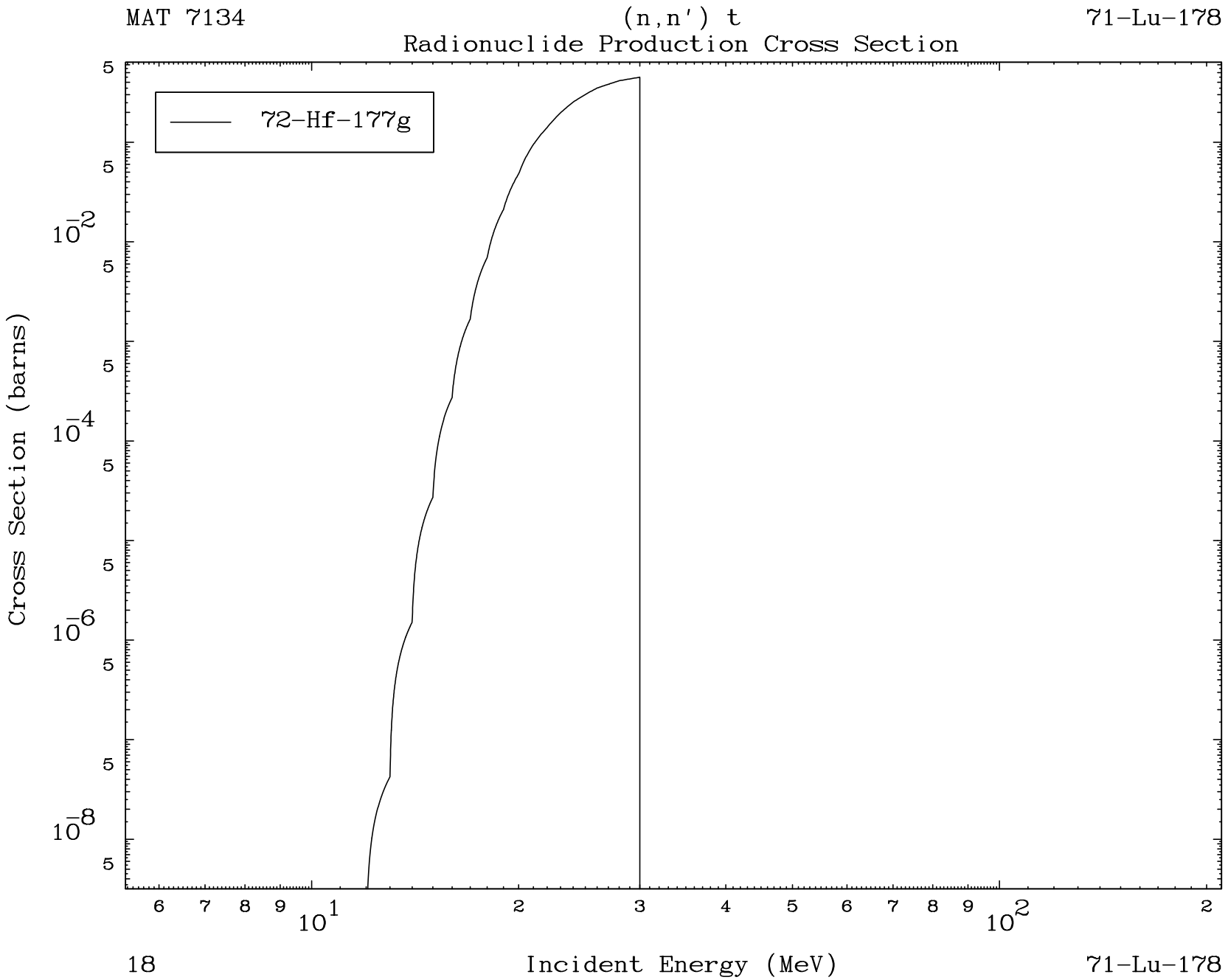

MAT 7134
(n,2n) d
71-Lu-178
Radionuclide Production Cross Section
72-Hf-177g
Cross Section (barns)
Incident Energy (MeV)
13
71-Lu-178

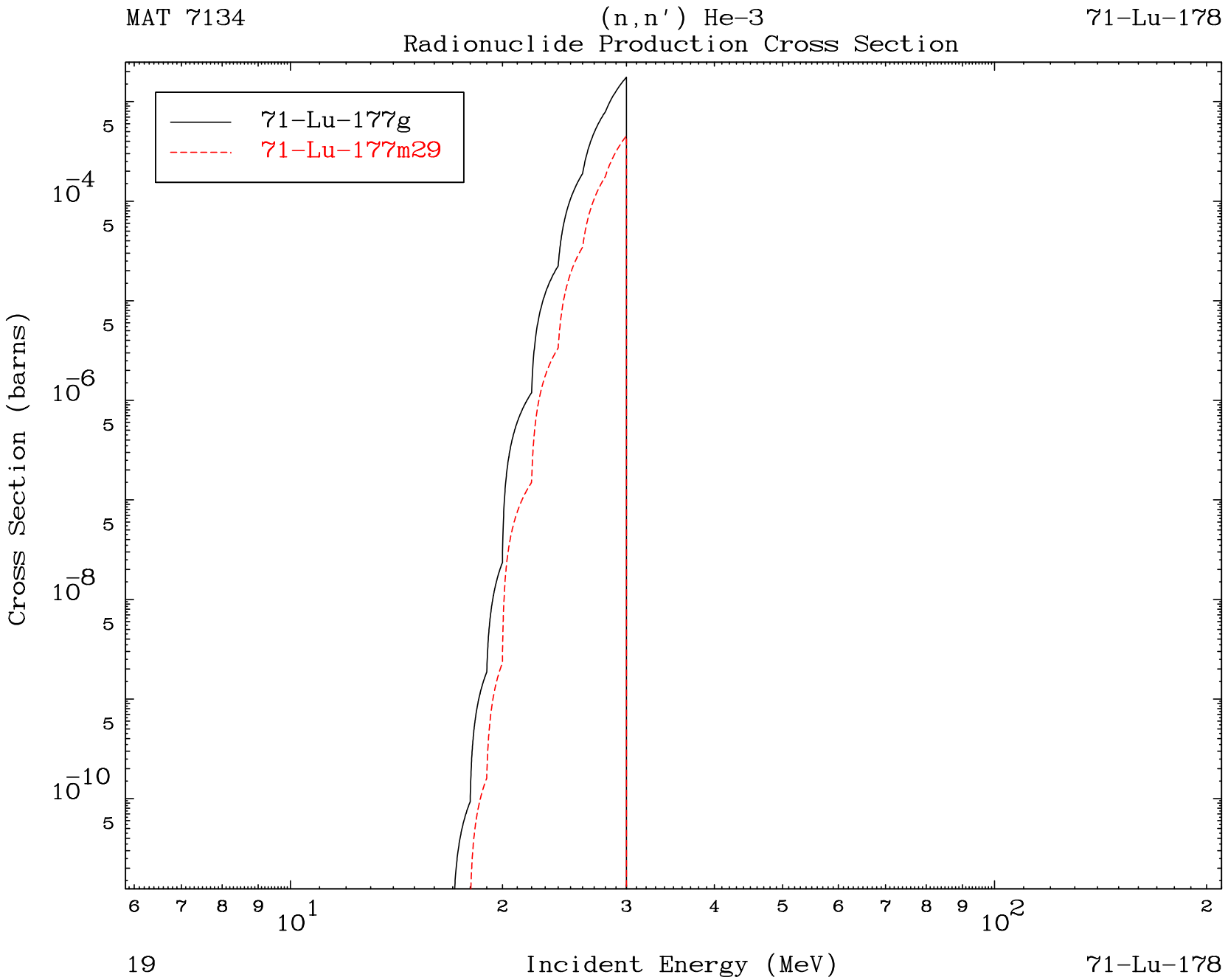

MAT 7134
(n,n') α
71-Lu-178
Radionuclide Production Cross Section
71-Lu-176g
71-Lu-176m1
Cross Section (barns)
Incident Energy (MeV)
14
71-Lu-178

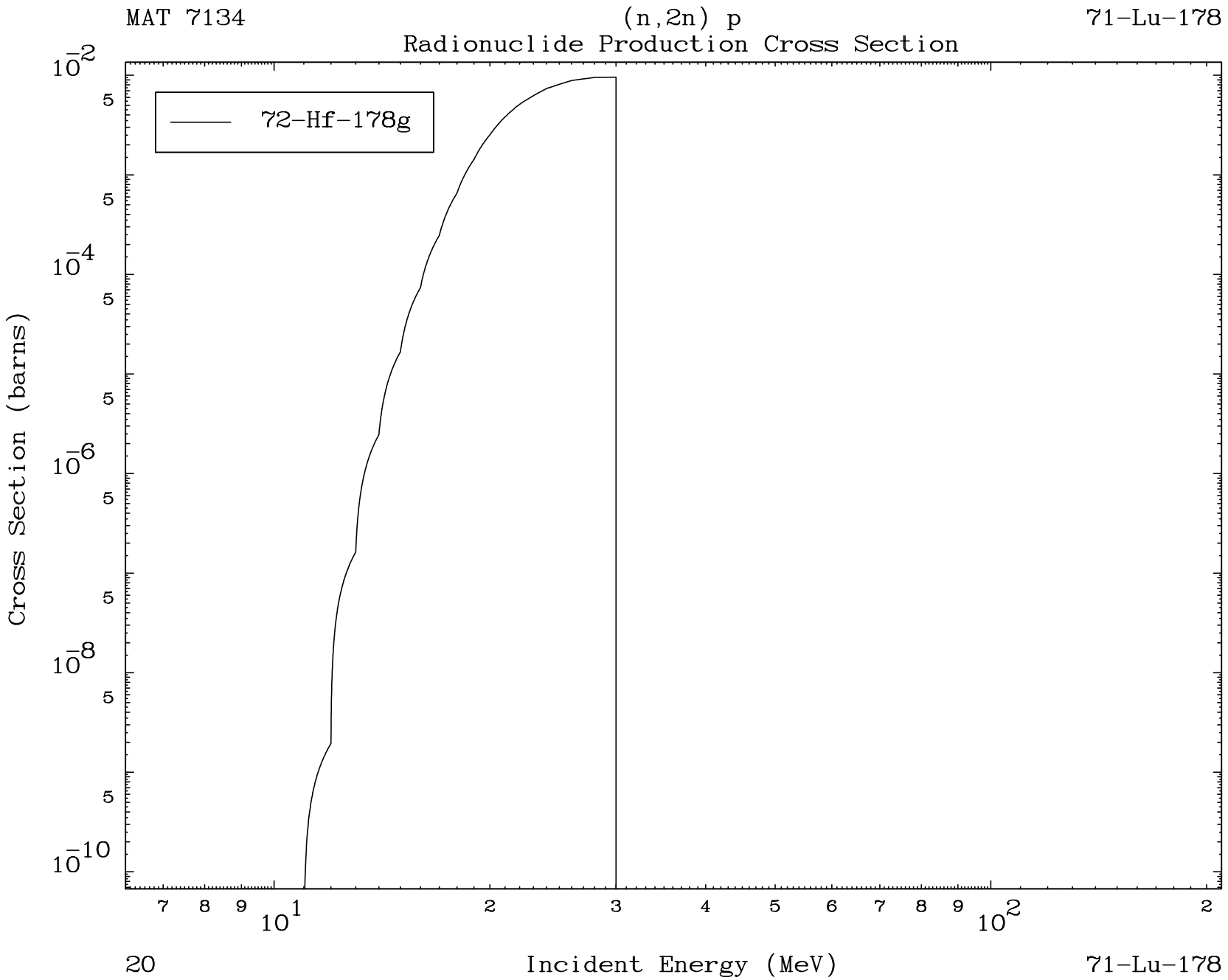

MAT 7134
(n,3n) α
71-Lu-178
Radionuclide Production Cross Section
71-Lu-174g
71-Lu-174m3
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
15
71-Lu-178

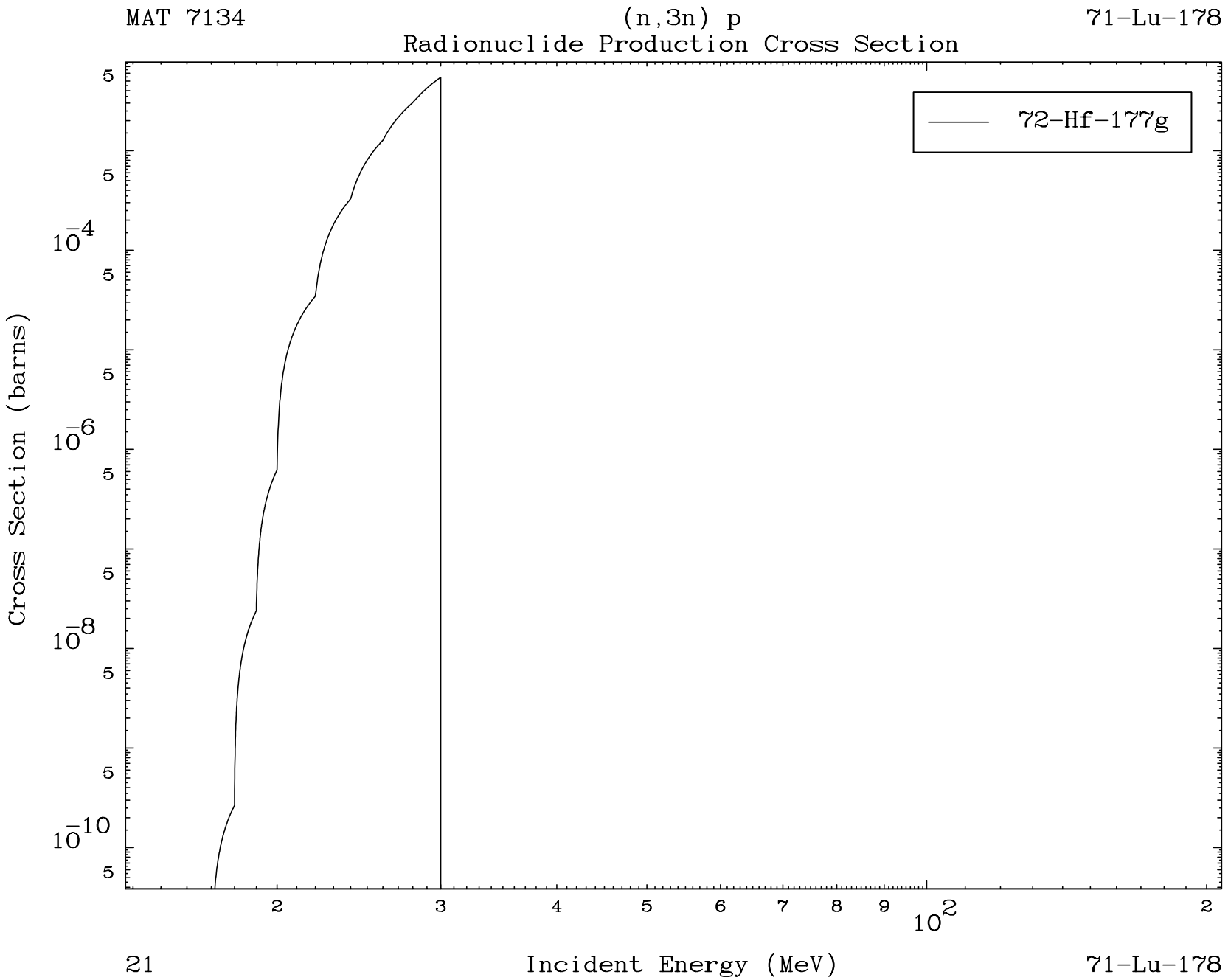

MAT 7134
(n,n') p
71-Lu-178
Radionuclide Production Cross Section
72-Hf-179g
Cross Section (barns)
Incident Energy (MeV)
16
71-Lu-178

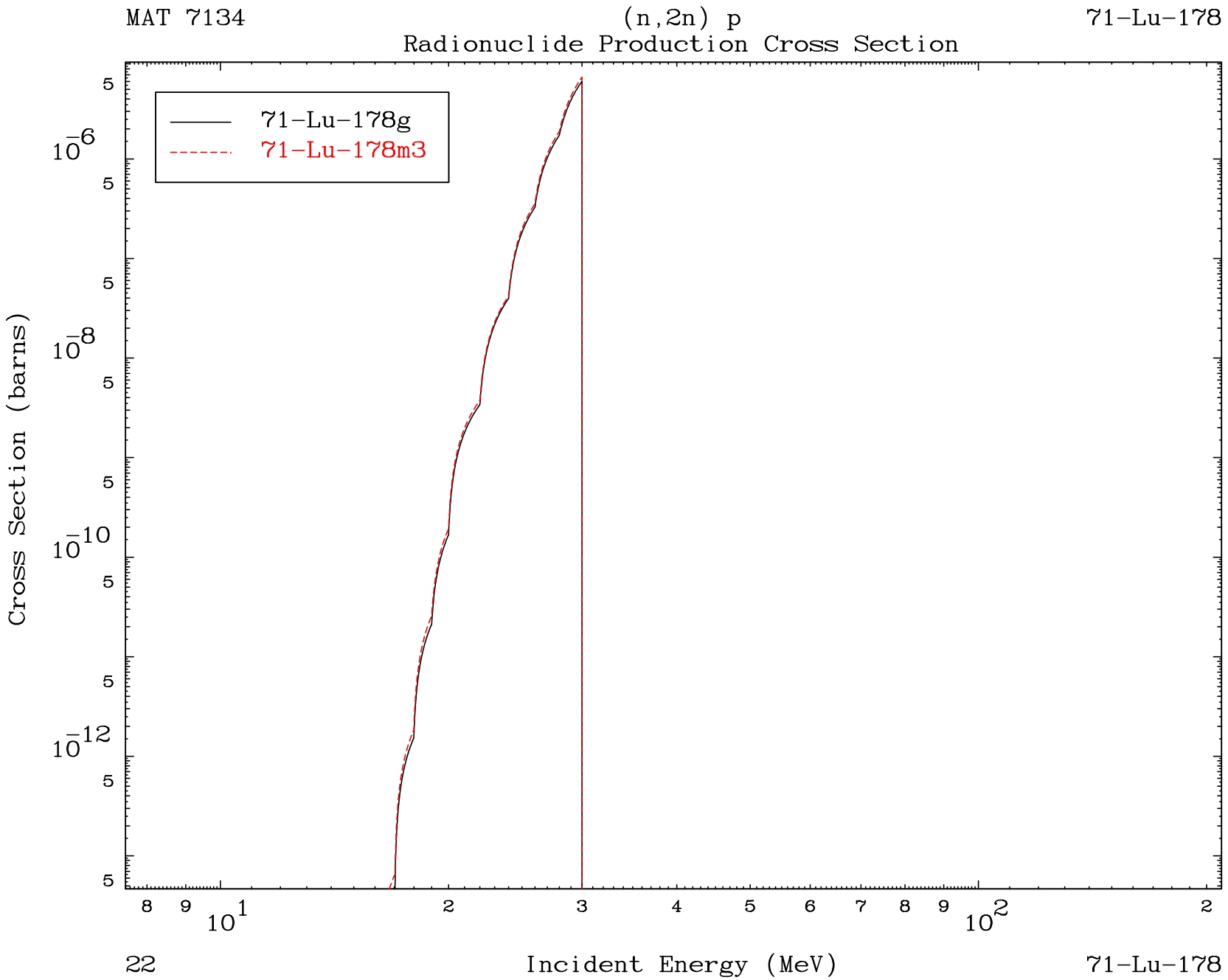

MAT 7134
(n,n') d
71-Lu-178
Radionuclide Production Cross Section
72-Hf-178g
Cross Section (barns)
Incident Energy (MeV)
17
71-Lu-178

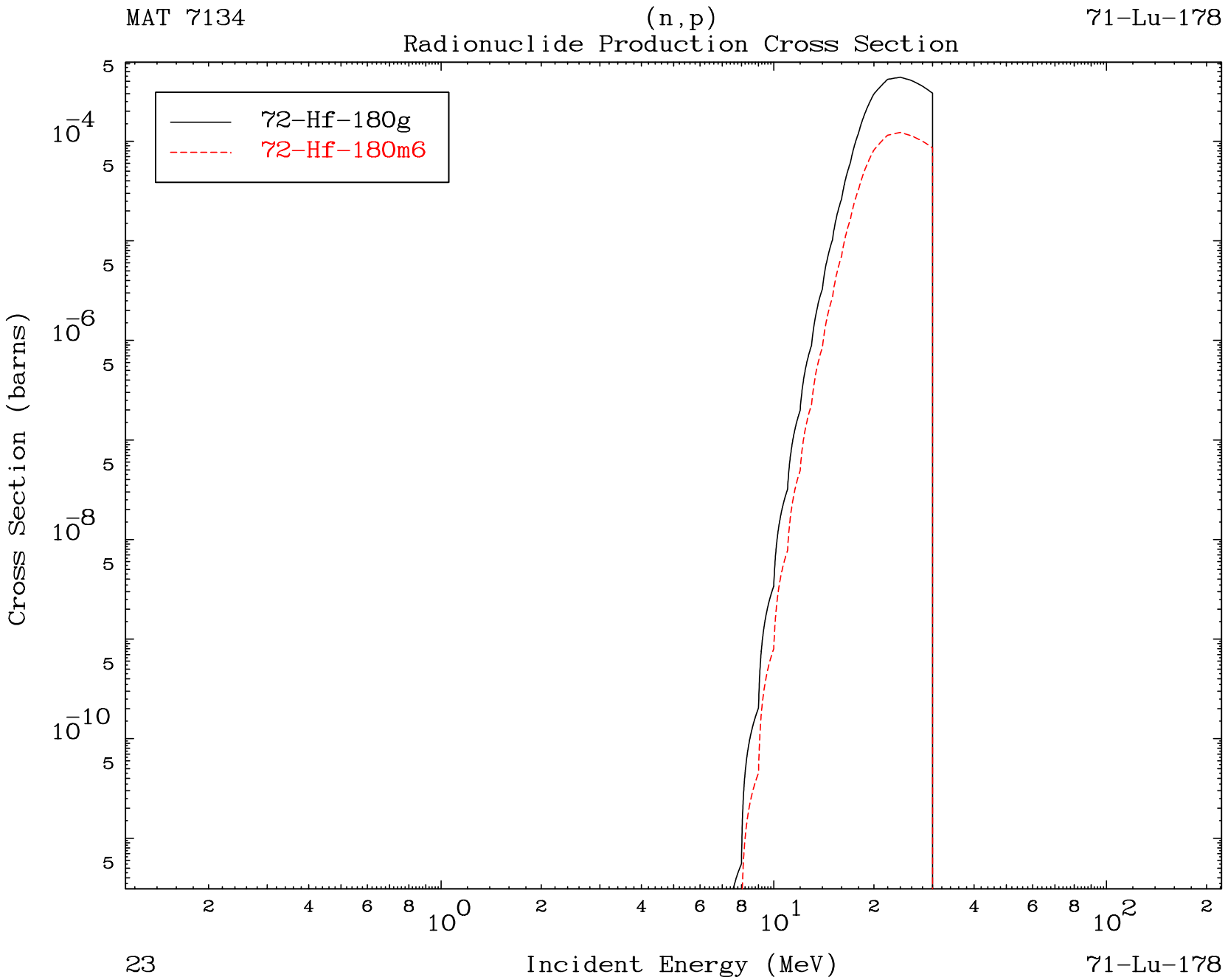

MAT 7134
(n,n') t
71-Lu-178
Radionuclide Production Cross Section
72-Hf-177g
Cross Section (barns)
Incident Energy (MeV)
18
71-Lu-178

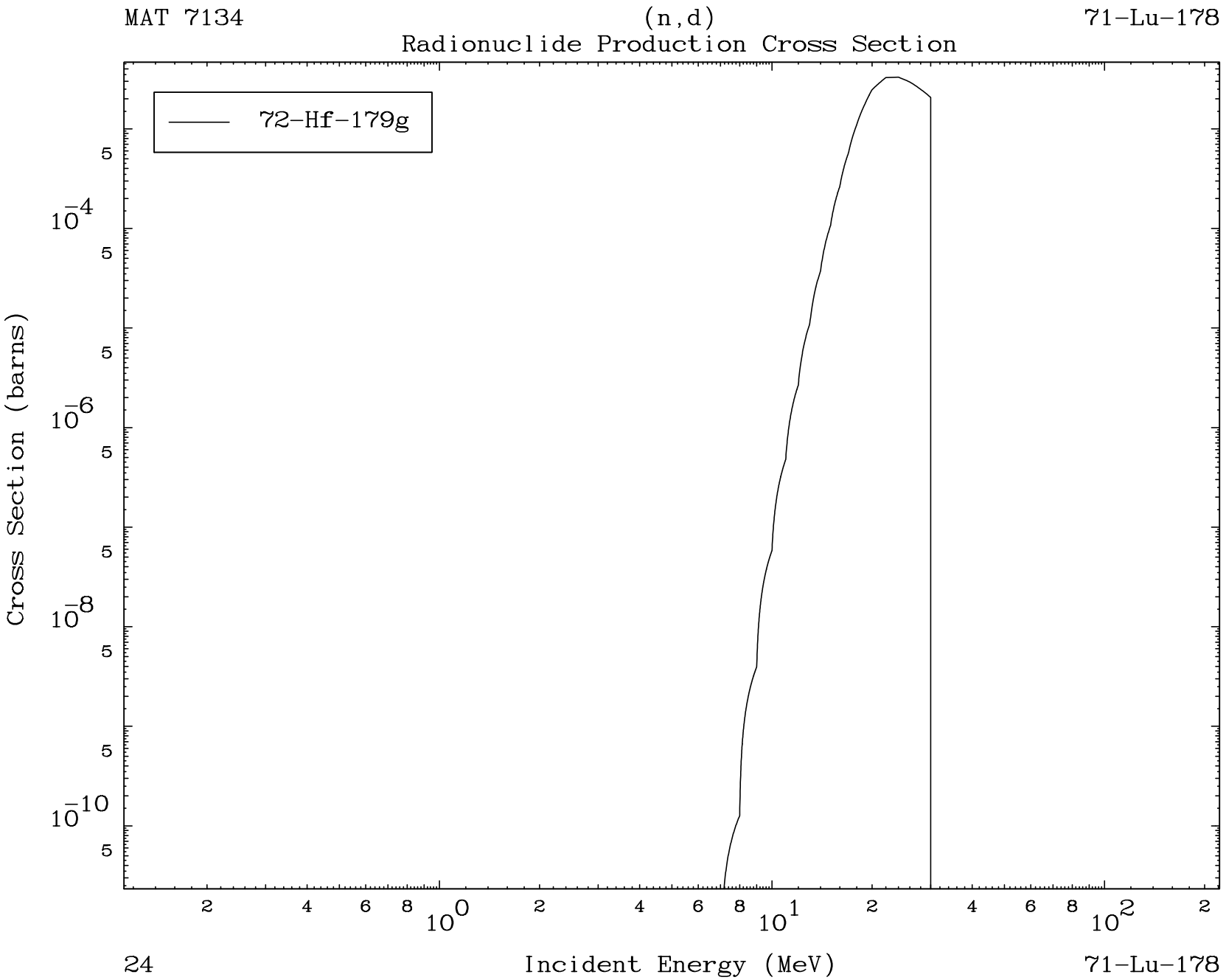

MAT 7134
(n,n') He-3
71-Lu-178
Radionuclide Production Cross Section
71-Lu-177g
71-Lu-177m29
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
19
71-Lu-178

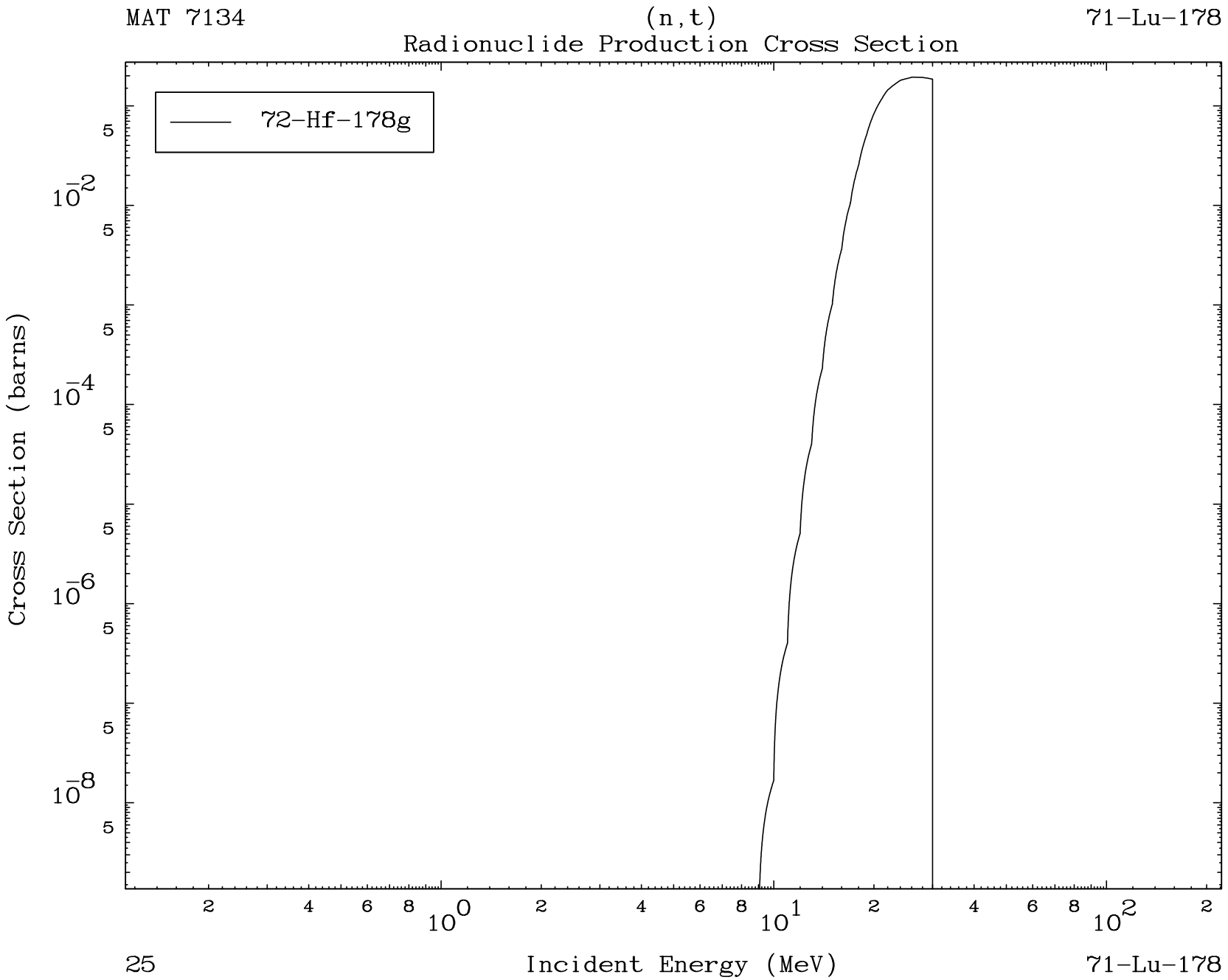

MAT 7134
(n,2n) p
71-Lu-178
Radionuclide Production Cross Section
72-Hf-178g
Cross Section (barns)
Incident Energy (MeV)
20
71-Lu-178

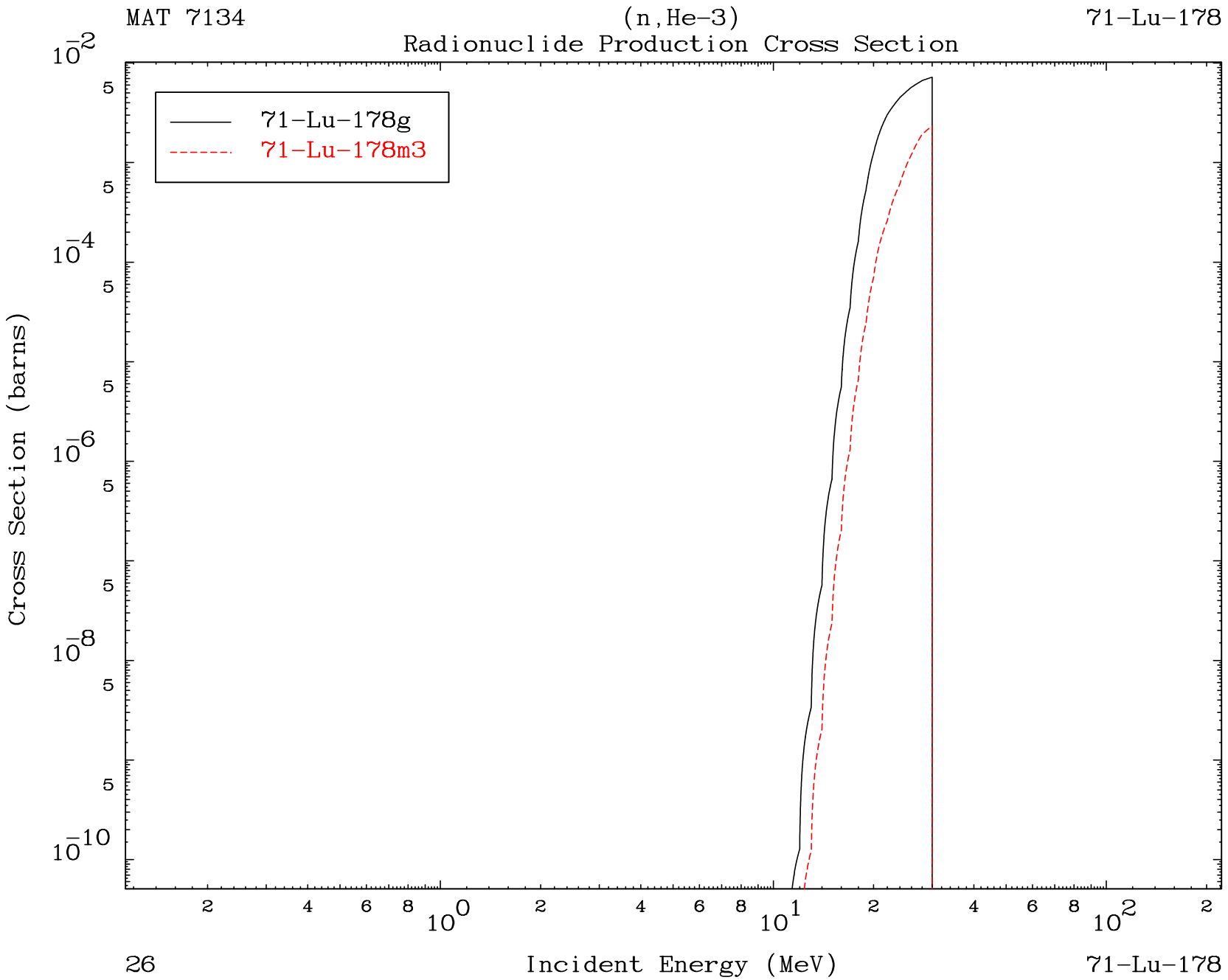

MAT 7134
(n,3n) p
71-Lu-178
Radionuclide Production Cross Section
72-Hf-177g
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
21
Incident Energy (MeV)
71-Lu-178

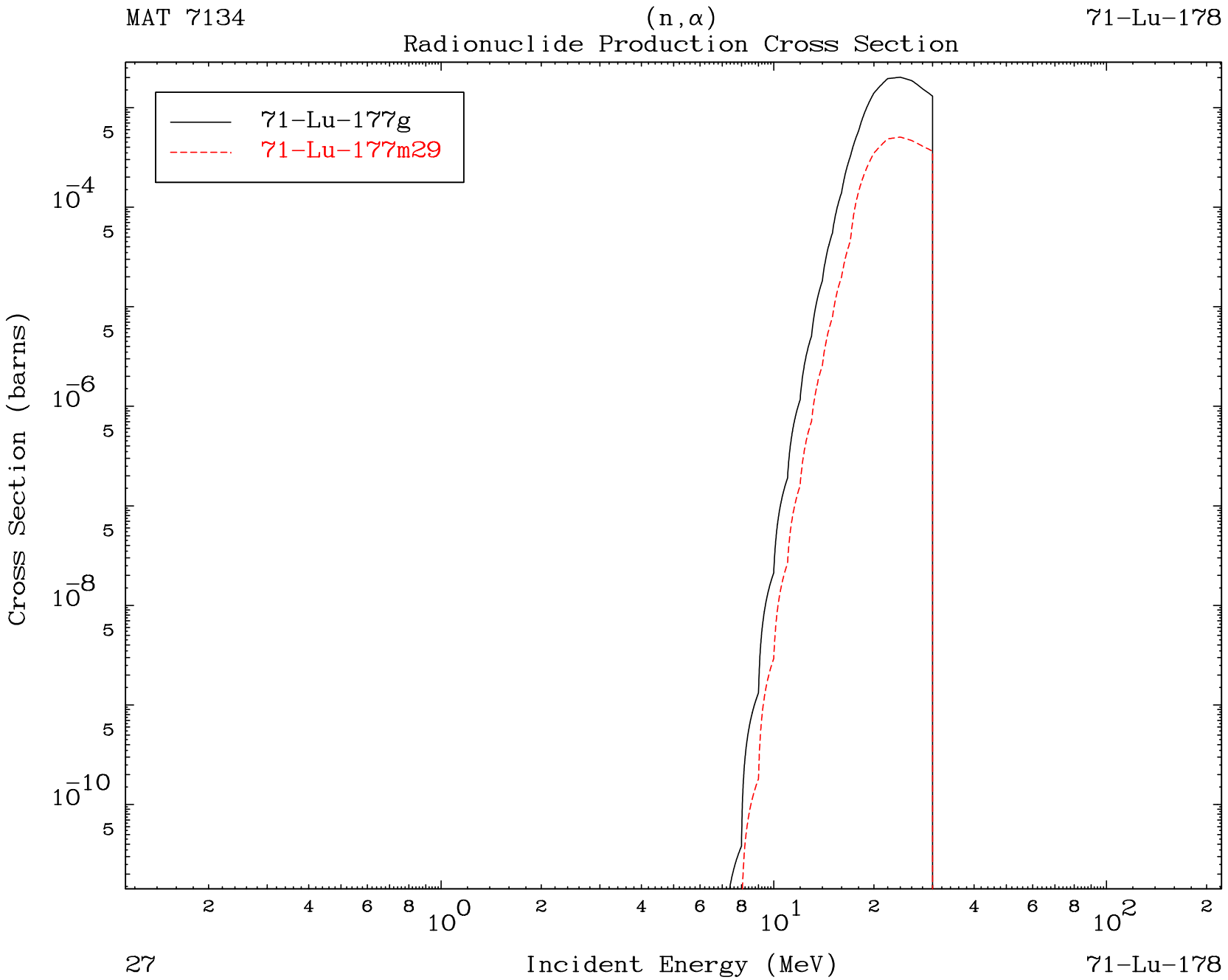

MAT 7134
(n,2n) p
71-Lu-178
Radionuclide Production Cross Section
71-Lu-178g
71-Lu-178m3
Cross Section (barns)
Incident Energy (MeV)
22
71-Lu-178

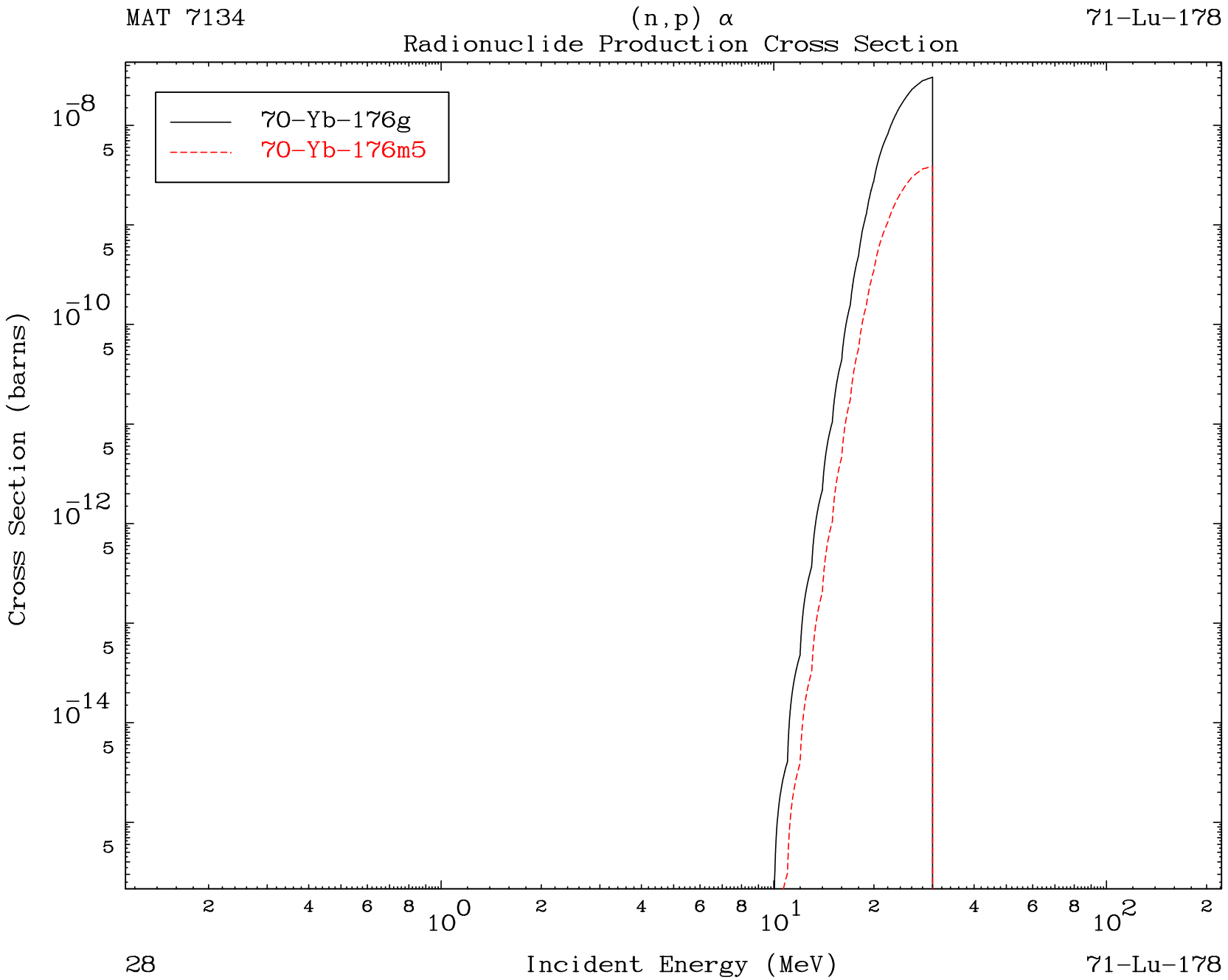

MAT 7134
(n,p)
71-Lu-178
Radionuclide Production Cross Section
72-Hf-180g
72-Hf-180m6
Cross Section (barns)
Incident Energy (MeV)
23
71-Lu-178

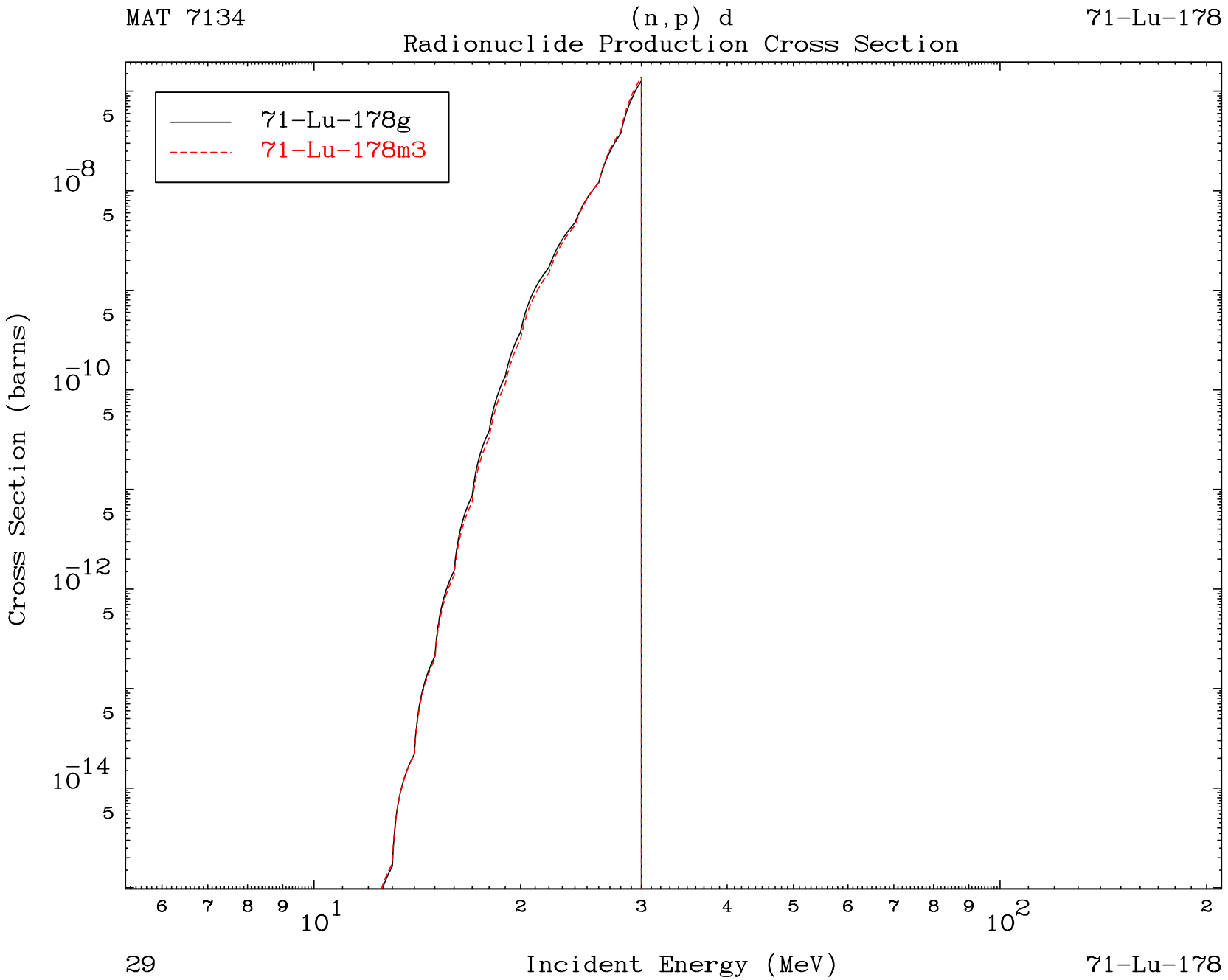

MAT 7134
(n,d)
71-Lu-178
Radionuclide Production Cross Section
72-Hf-179g
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
24
71-Lu-178

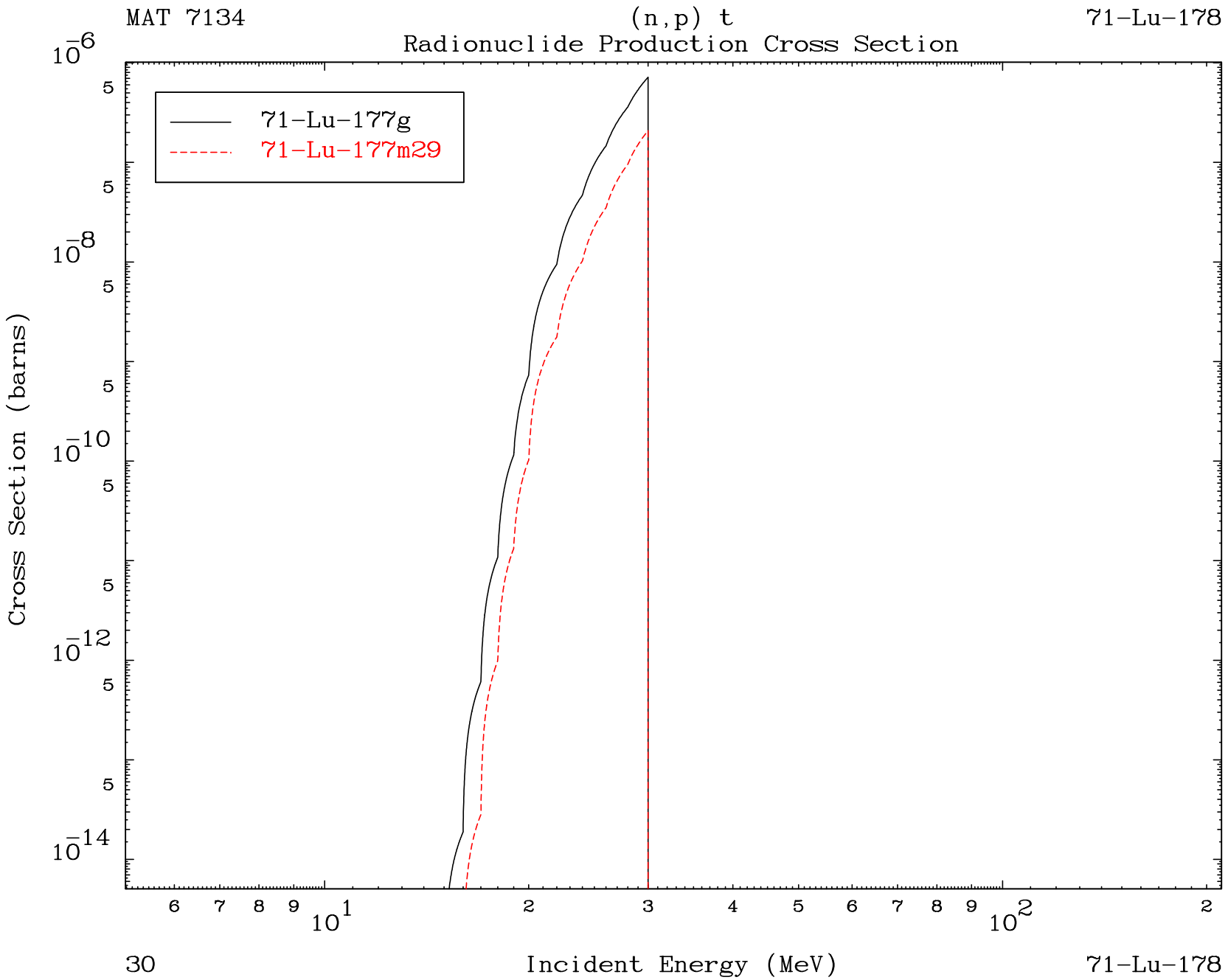

MAT 7134
(n,t)
71-Lu-178
Radionuclide Production Cross Section
72-Hf-178g
Cross Section (barns)
Incident Energy (MeV)
25
71-Lu-178


MAT 7134
(n,He-3)
71-Lu-178
Radionuclide Production Cross Section
71-Lu-178g
71-Lu-178m3
Cross Section (barns)
Incident Energy (MeV)
26
71-Lu-178


MAT 7134
(n,α)
71-Lu-178
Radionuclide Production Cross Section
71-Lu-177g
71-Lu-177m29
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
27
71-Lu-178


MAT 7134
(n,p) α
71-Lu-178
Radionuclide Production Cross Section
70-Yb-176g
70-Yb-176m5
Cross Section (barns)
Incident Energy (MeV)
28
71-Lu-178


MAT 7134
(n,p) d
71-Lu-178
Radionuclide Production Cross Section
71-Lu-178g
71-Lu-178m3
Cross Section (barns)
Incident Energy (MeV)
29
71-Lu-178


MAT 7134
(n,p) t
71-Lu-178
Radionuclide Production Cross Section
71-Lu-177g
71-Lu-177m29
Cross Section (barns)
Incident Energy (MeV)
30
71-Lu-178