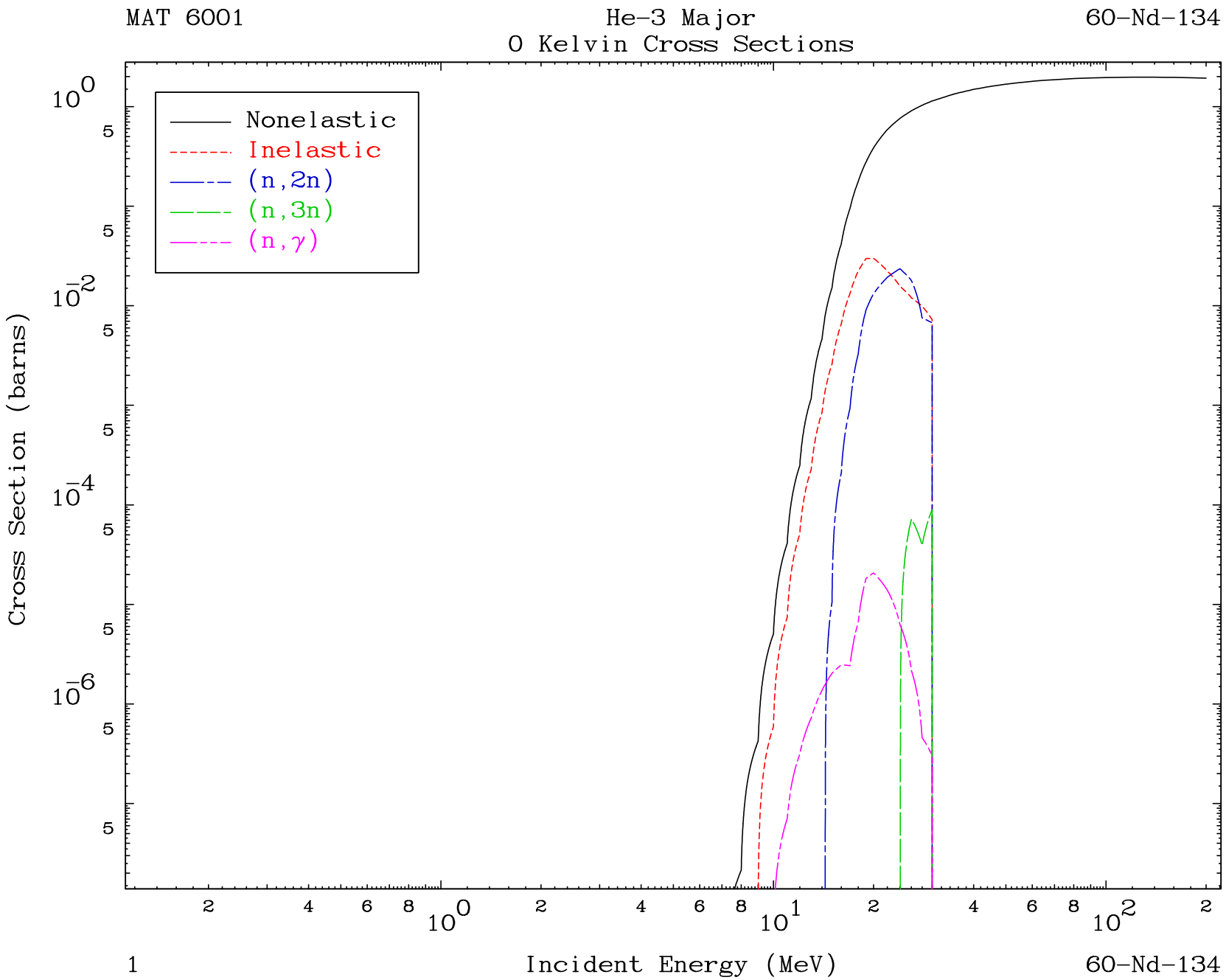
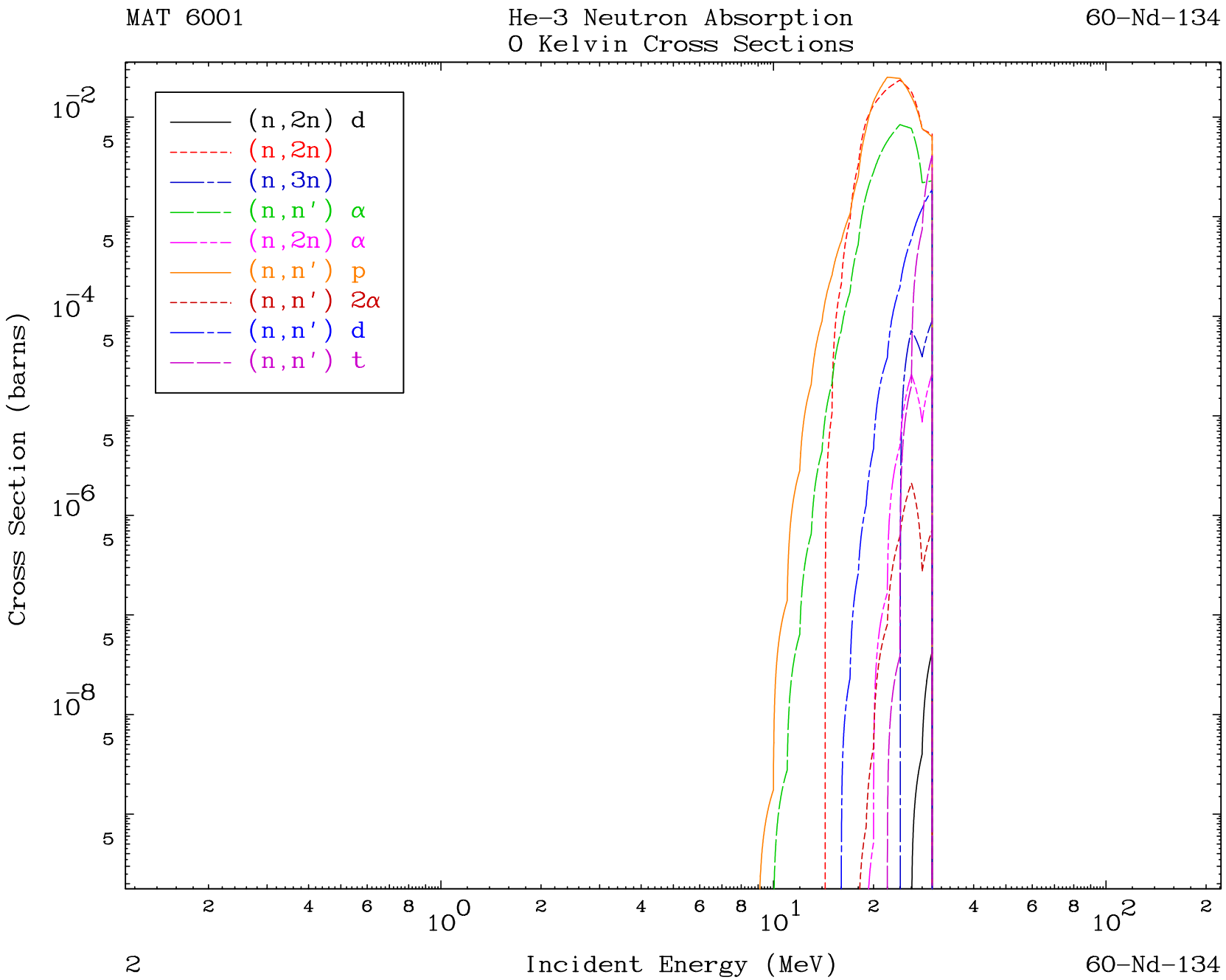
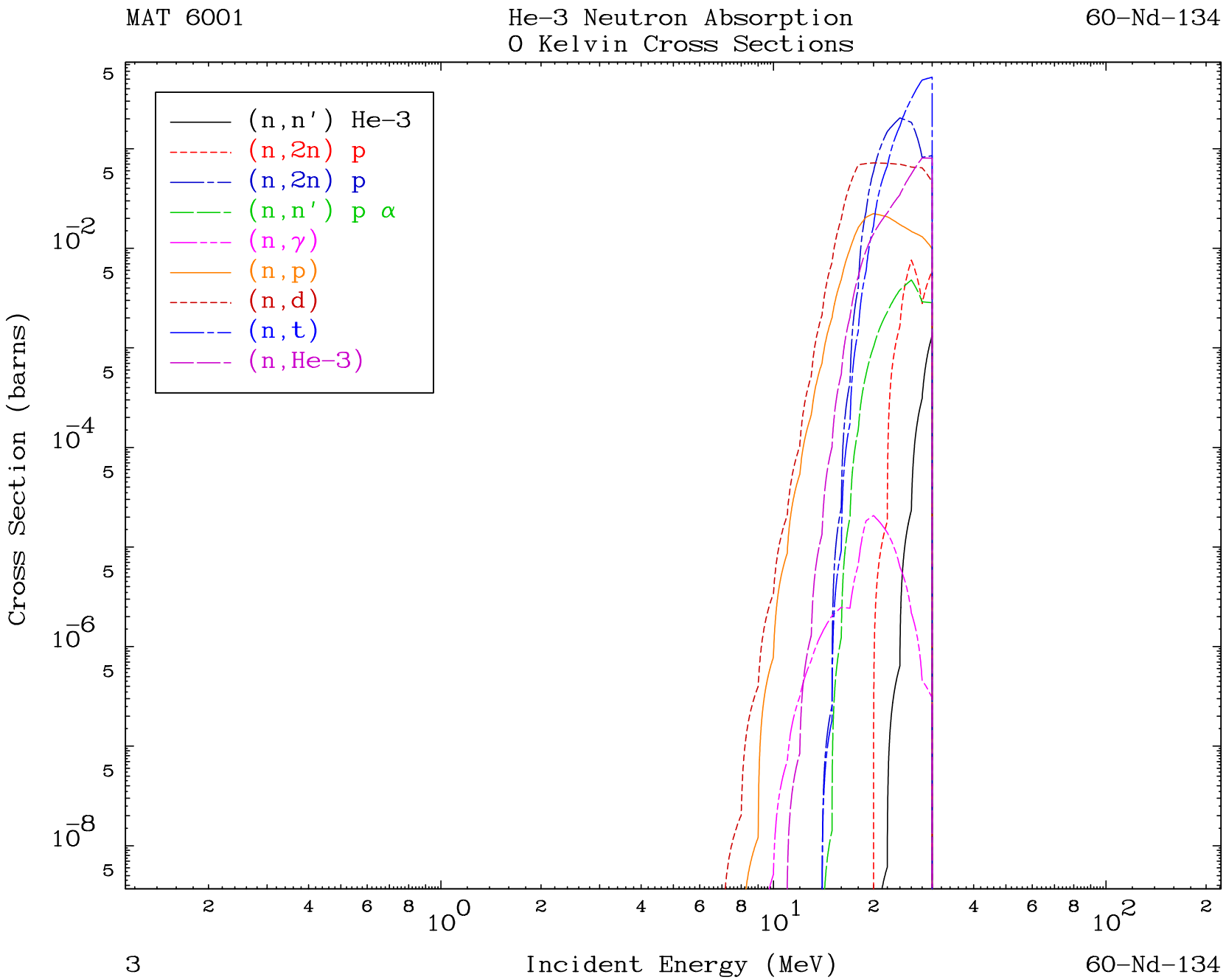
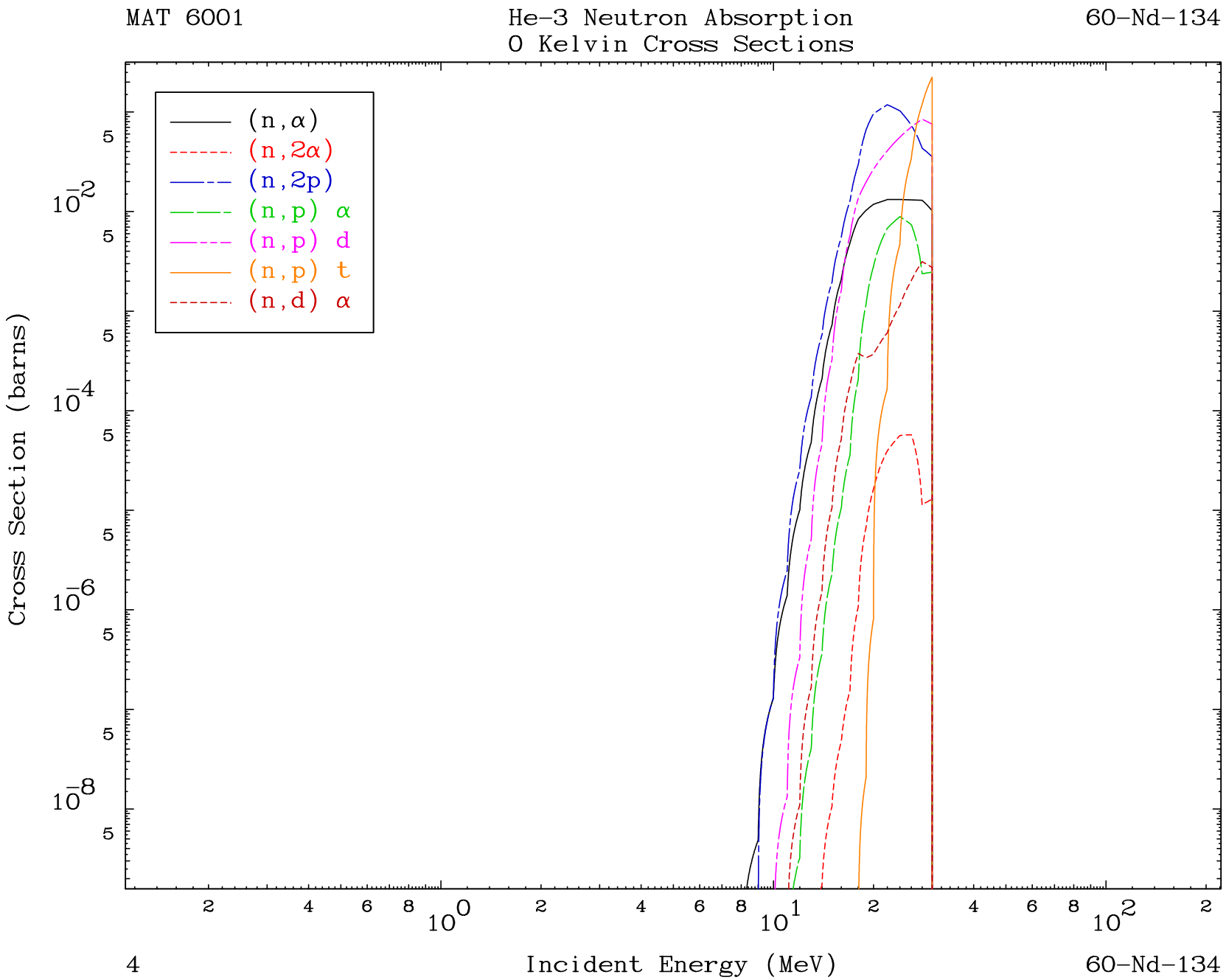
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

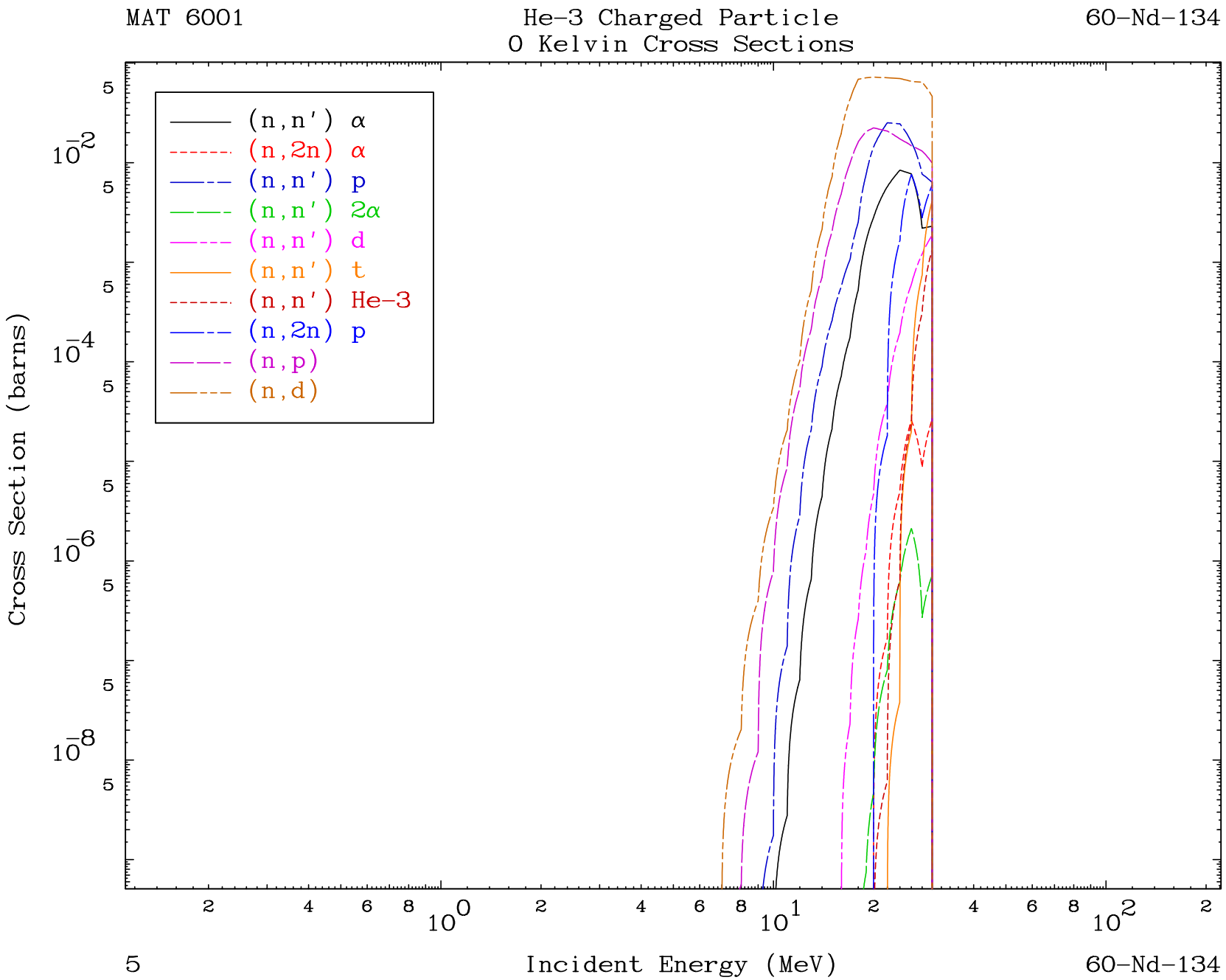
Press Mouse Button to Start

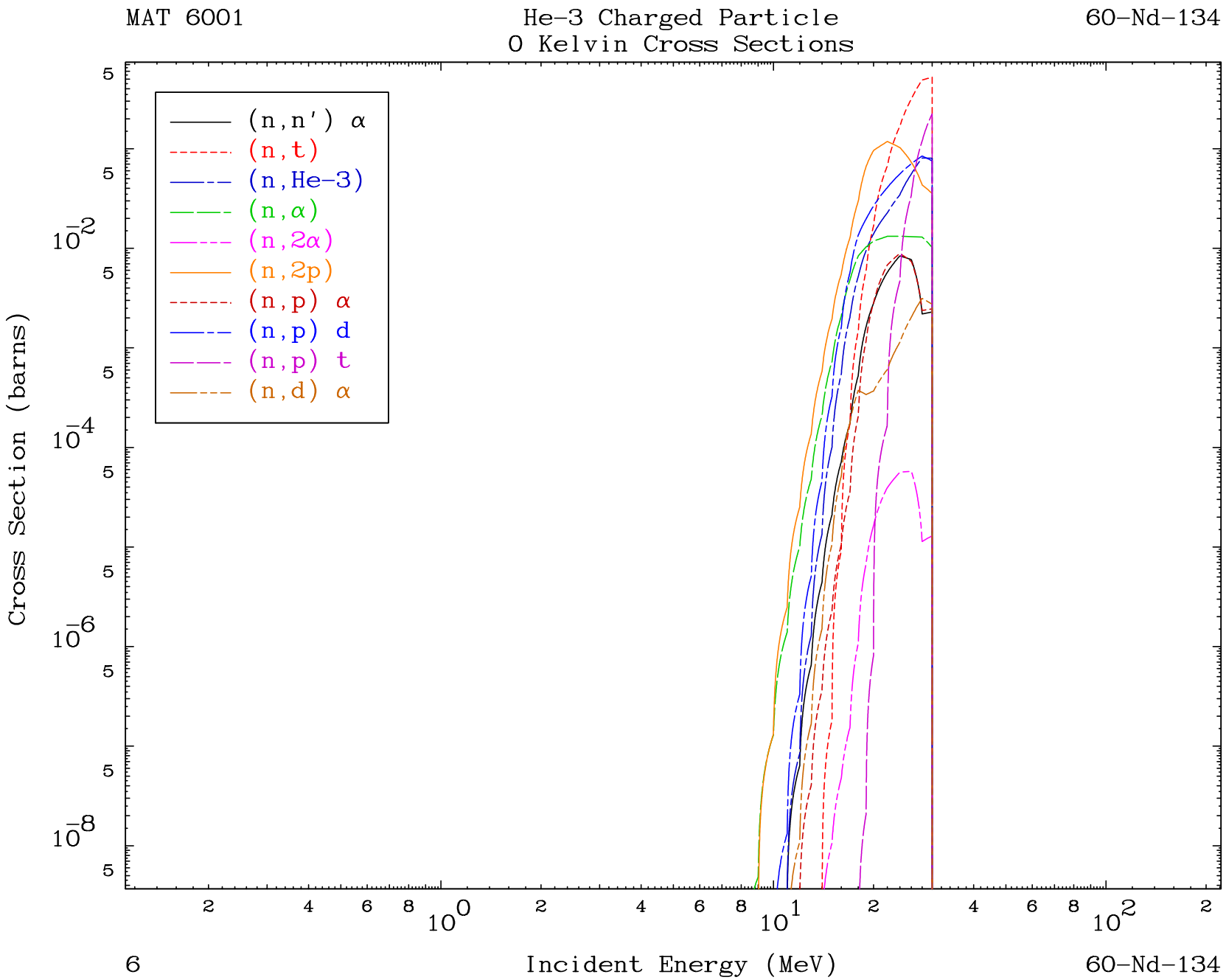

MAT 6001
He-3 Major
60-Nd-134
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-134
1

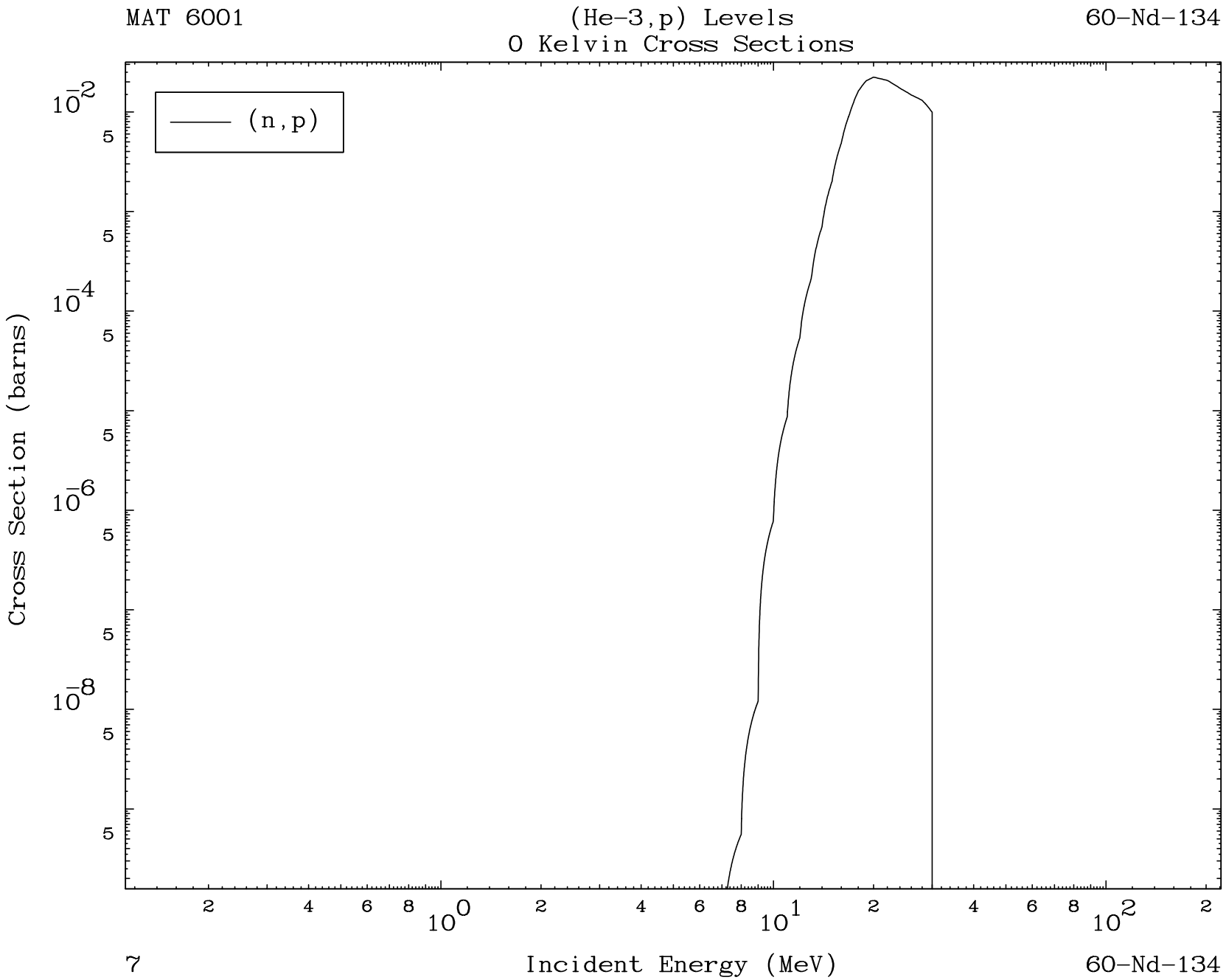

MAT 6001
He-3 Neutron Absorption
0 Kelvin Cross Sections
60-Nd-134
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
2
60-Nd-134

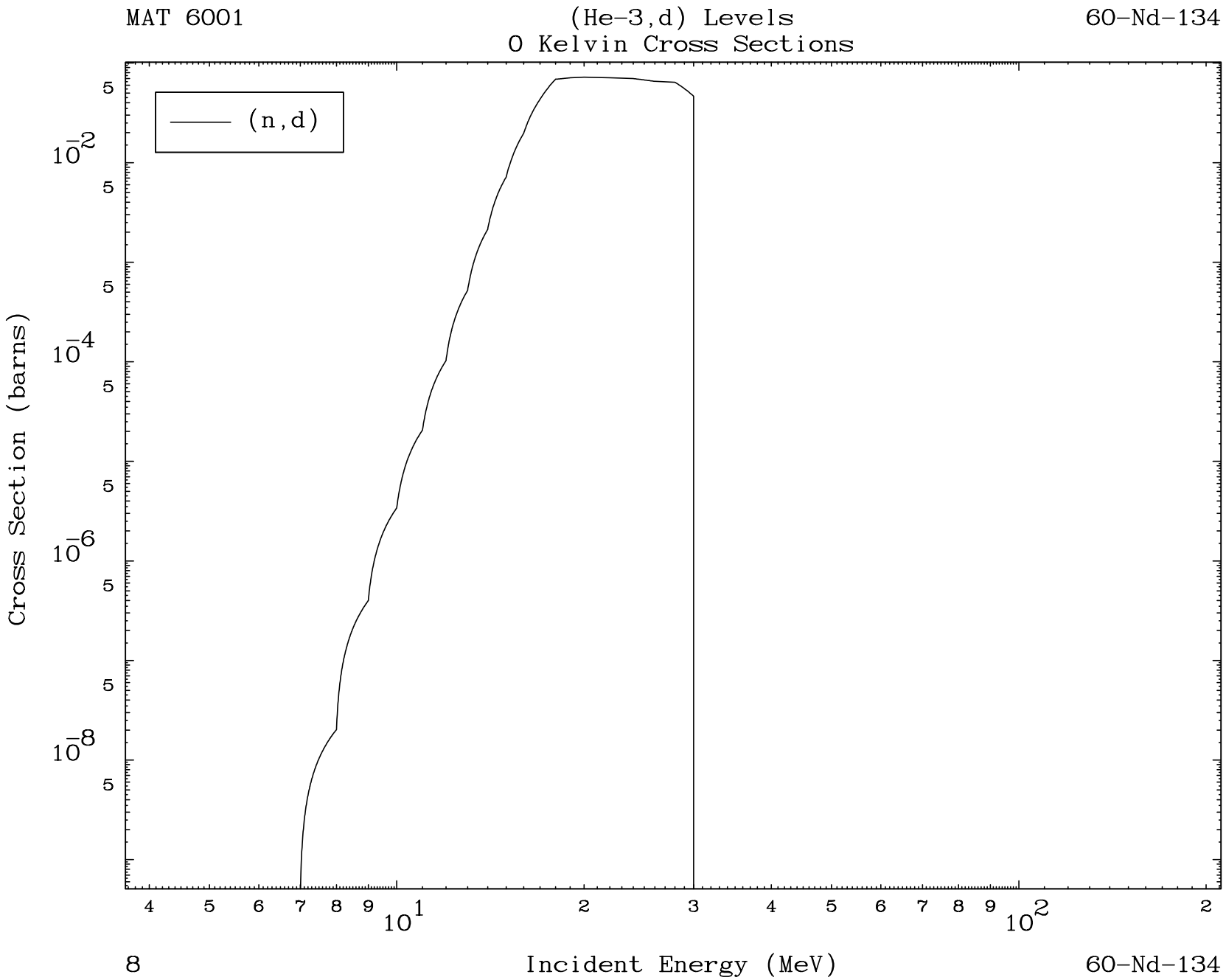

MAT 6001
He-3 Neutron Absorption
0 Kelvin Cross Sections
60-Nd-134
(n,n') He-3
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
3
60-Nd-134

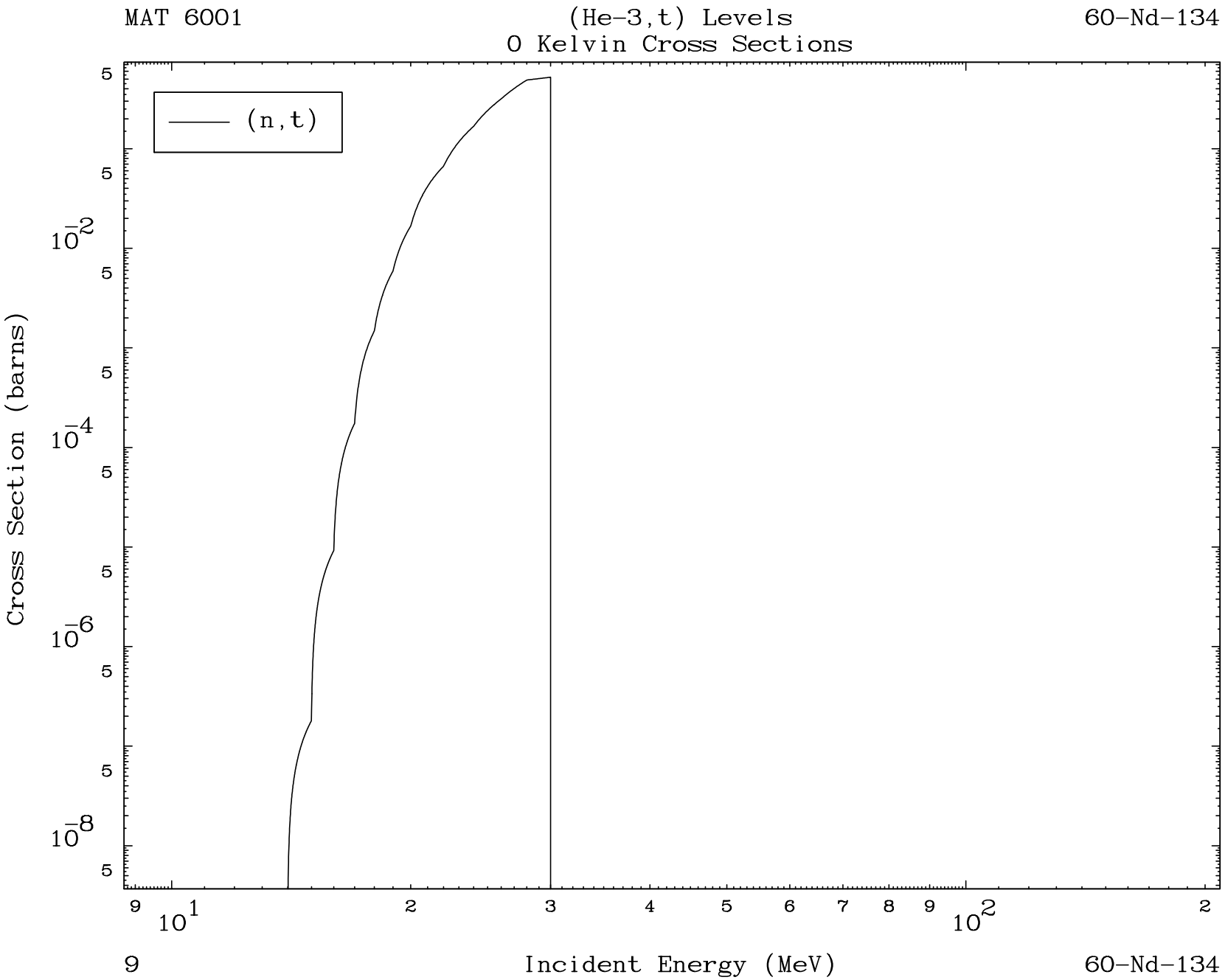

MAT 6001
He-3 Neutron Absorption
0 Kelvin Cross Sections
60-Nd-134
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
10-2
10-4
10-6
10-8
10 0
10 1
10 2
Incident Energy (MeV)
4
60-Nd-134

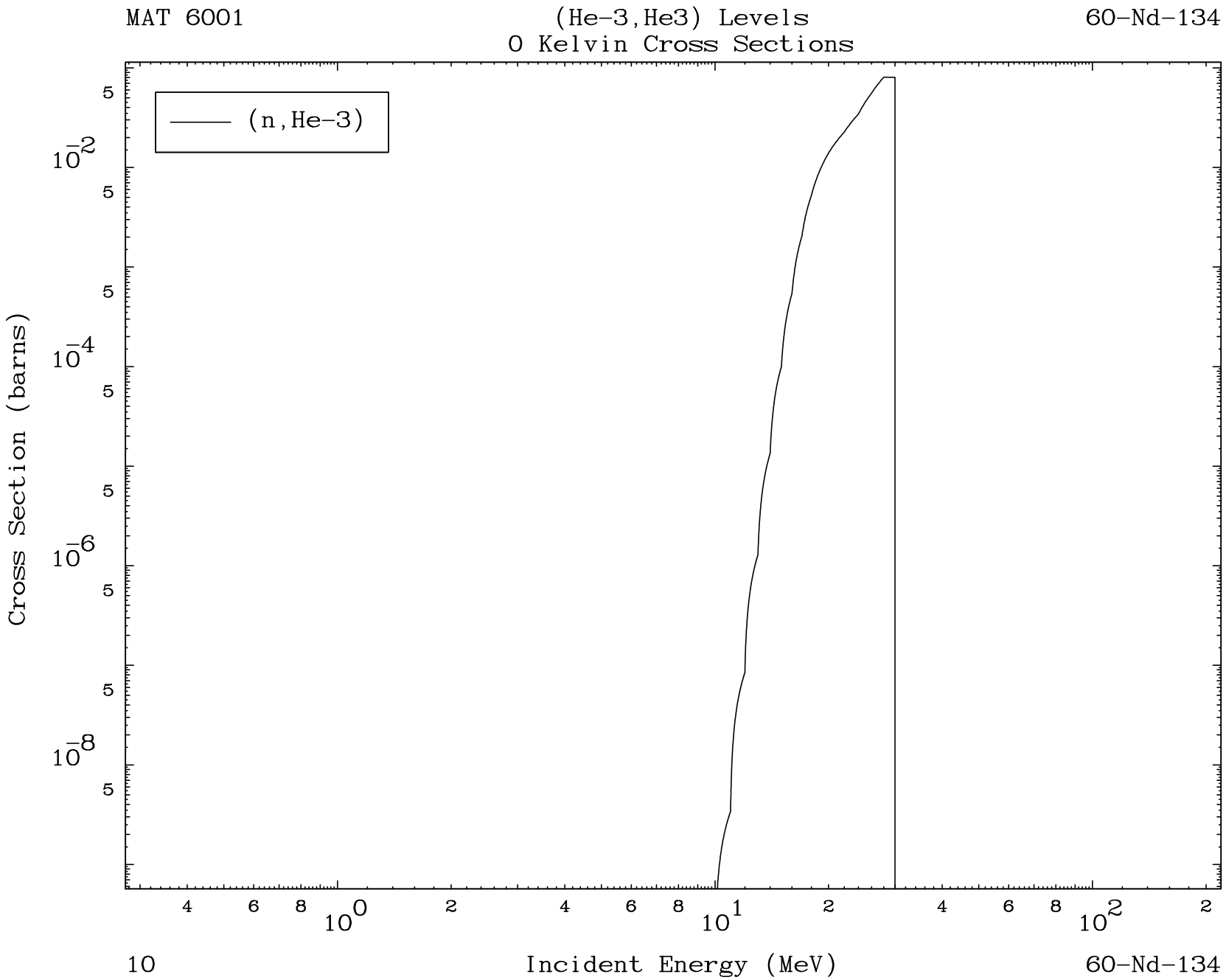

MAT 6001
He-3 Charged Particle
0 Kelvin Cross Sections
60-Nd-134
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-134

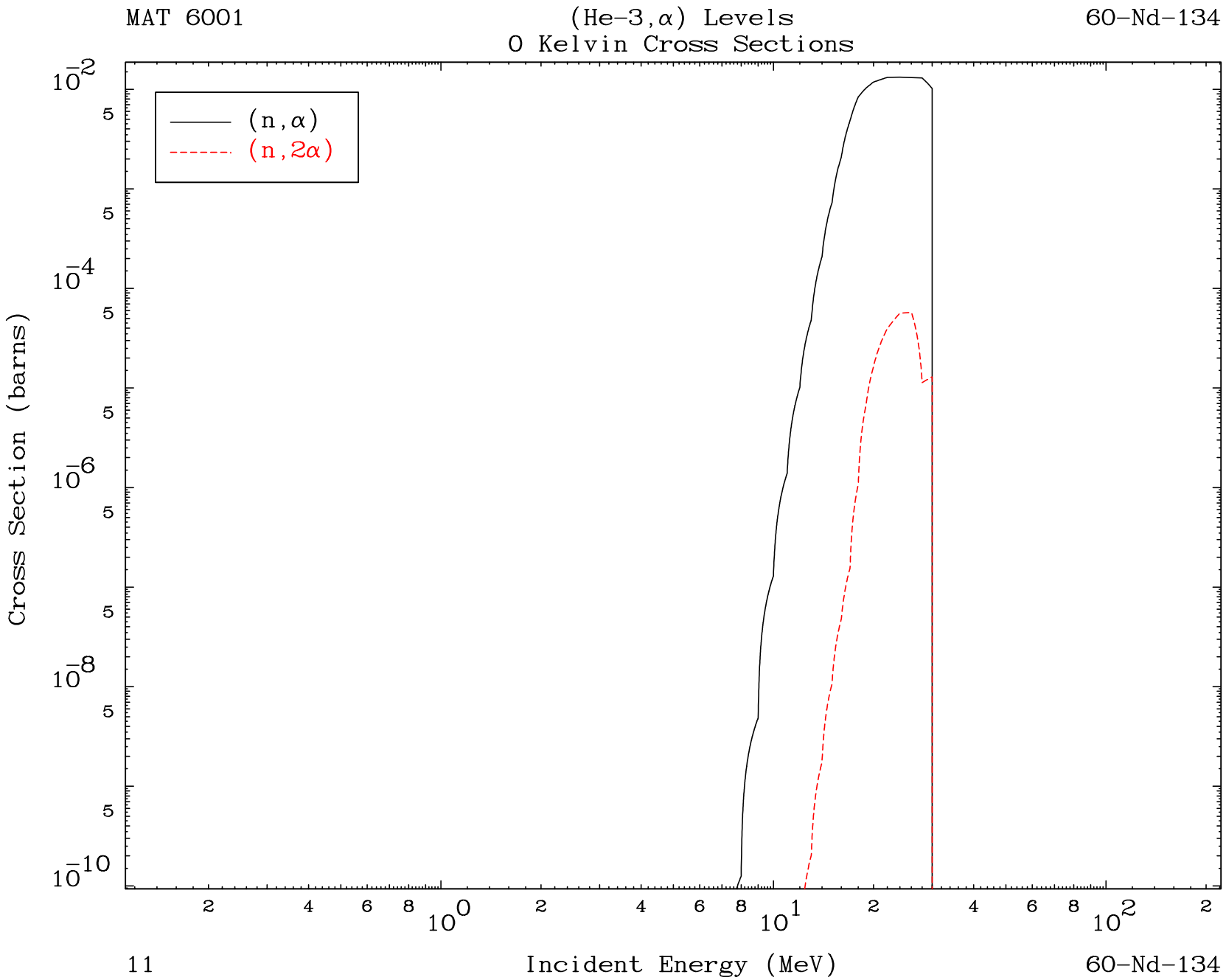

MAT 6001
He-3 Charged Particle
0 Kelvin Cross Sections
60-Nd-134
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
60-Nd-134

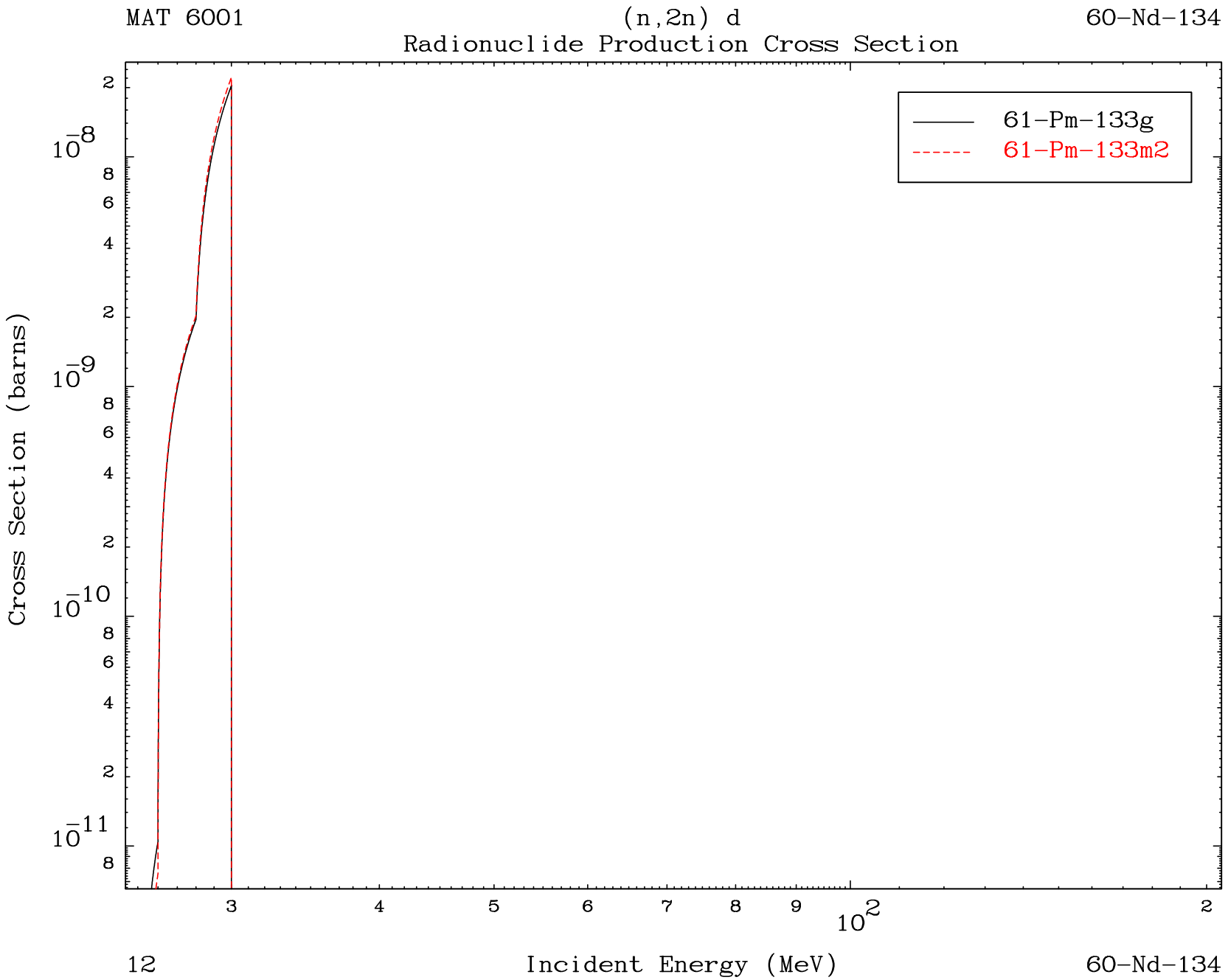

MAT 6001
(He-3,p) Levels
60-Nd-134
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
60-Nd-134

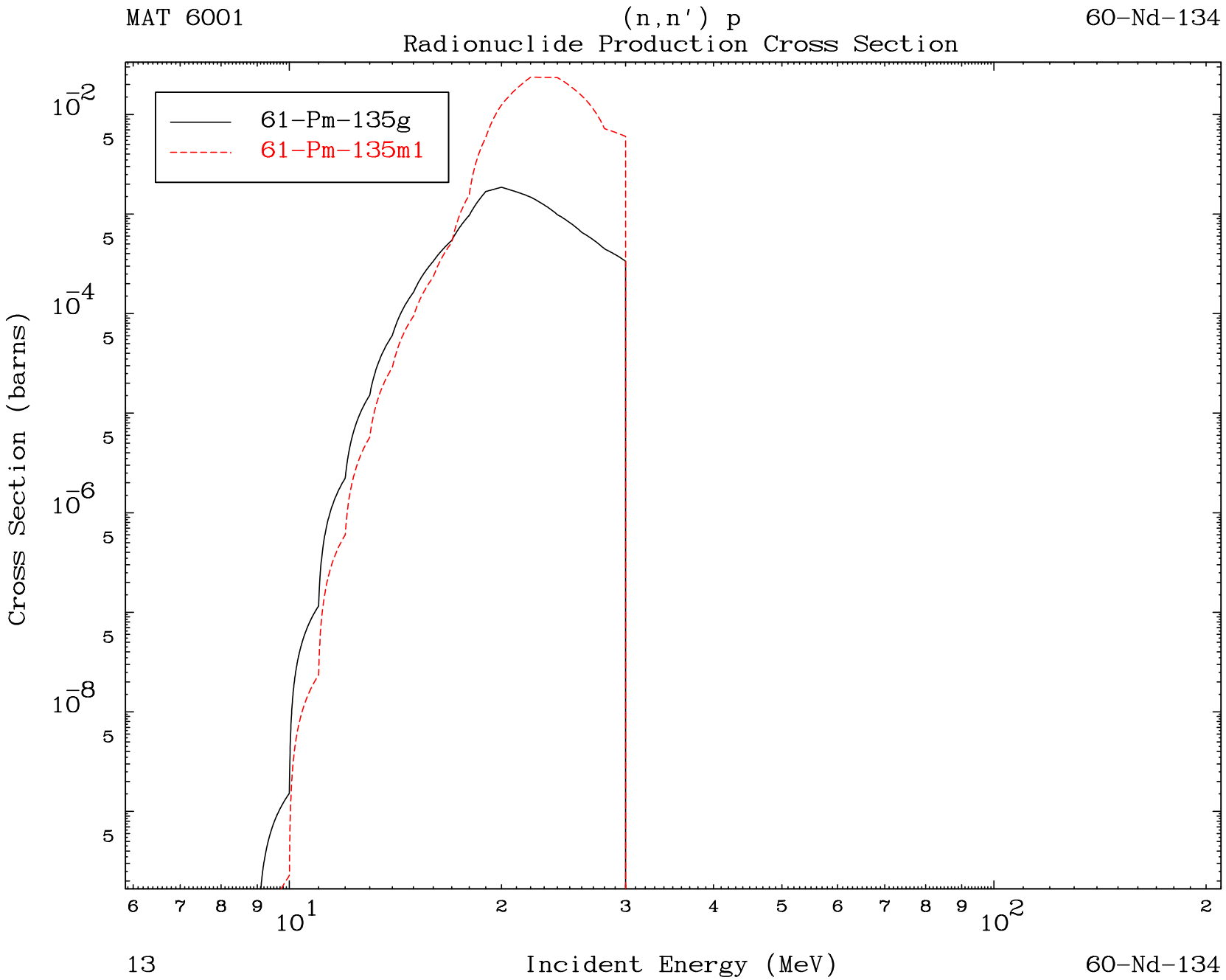

MAT 6001
(He-3,d) Levels
60-Nd-134
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
8
60-Nd-134

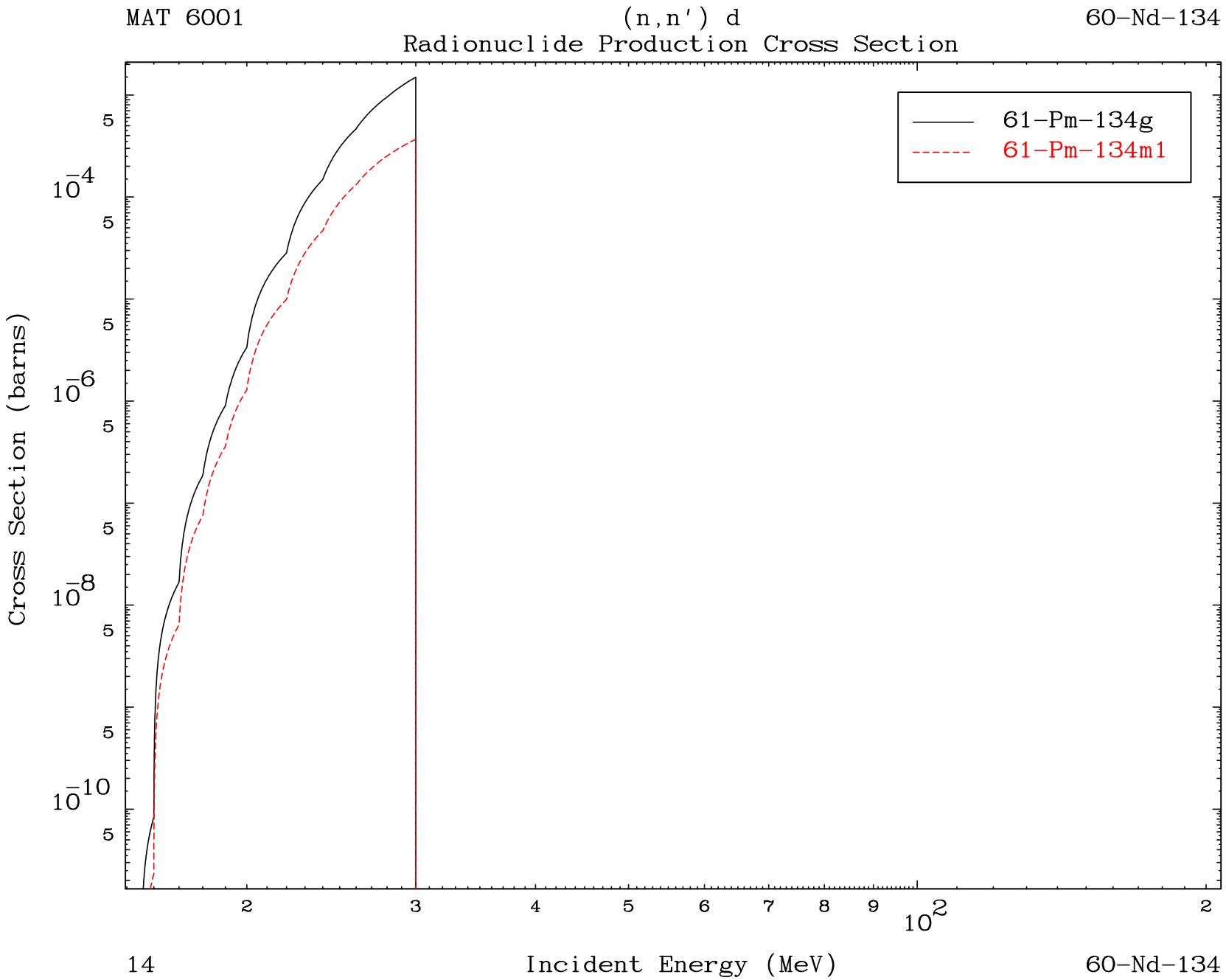

MAT 6001
(He-3,t) Levels
60-Nd-134
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-134
9

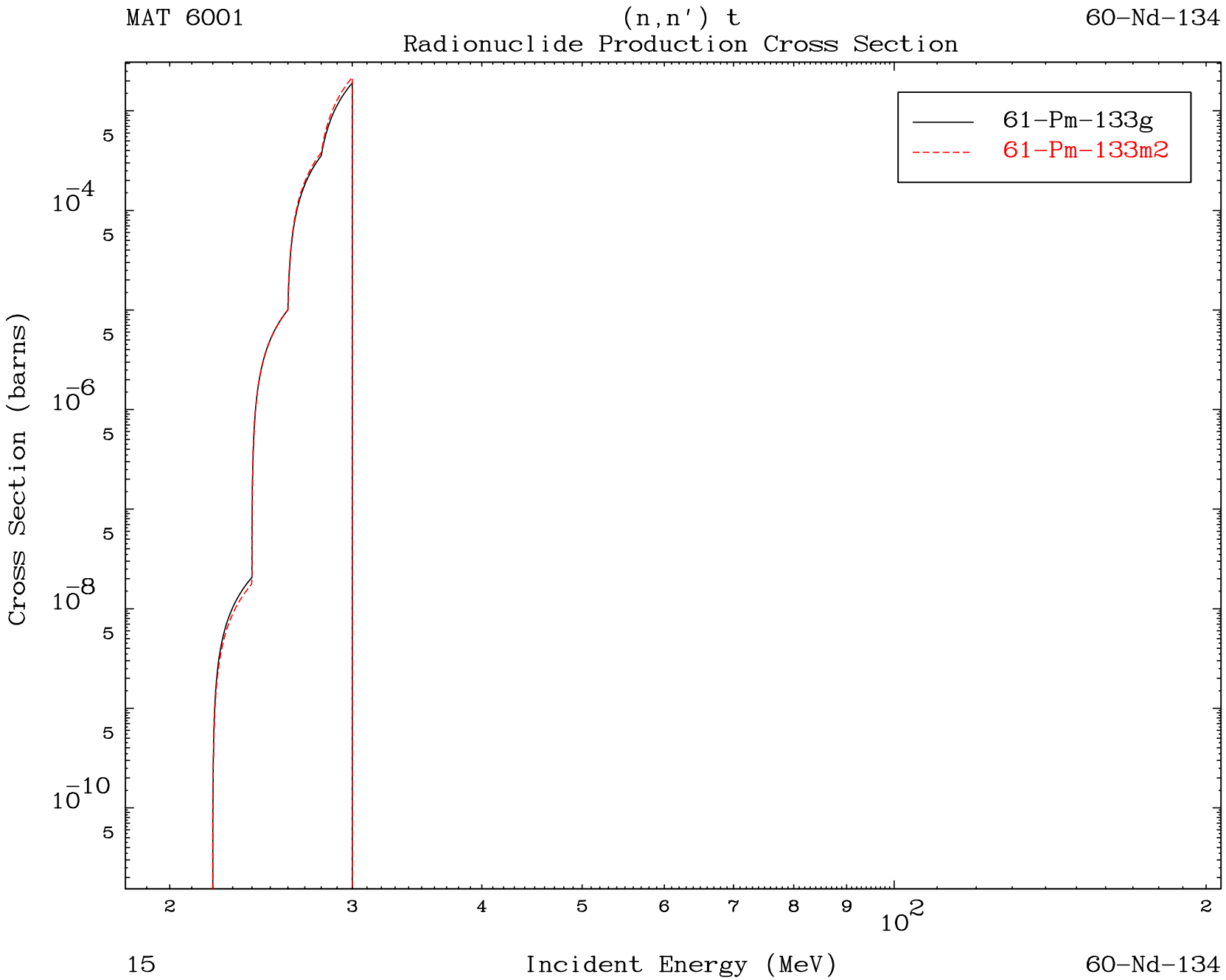

MAT 6001
(He-3,He3) Levels
60-Nd-134
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-134

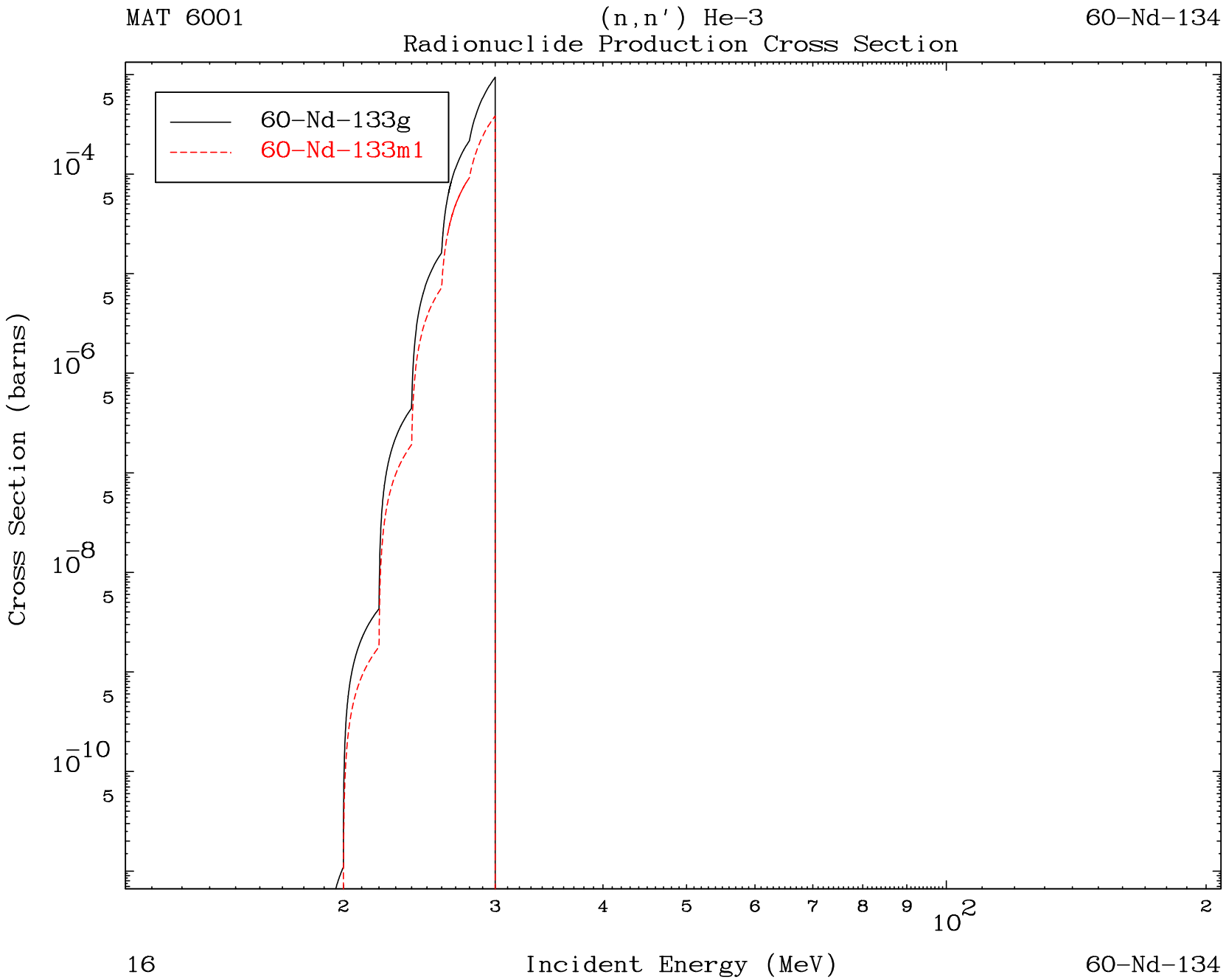

MAT 6001
(He-3,α) Levels
0 Kelvin Cross Sections
60-Nd-134
(n,α)
(n,2α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
11
60-Nd-134

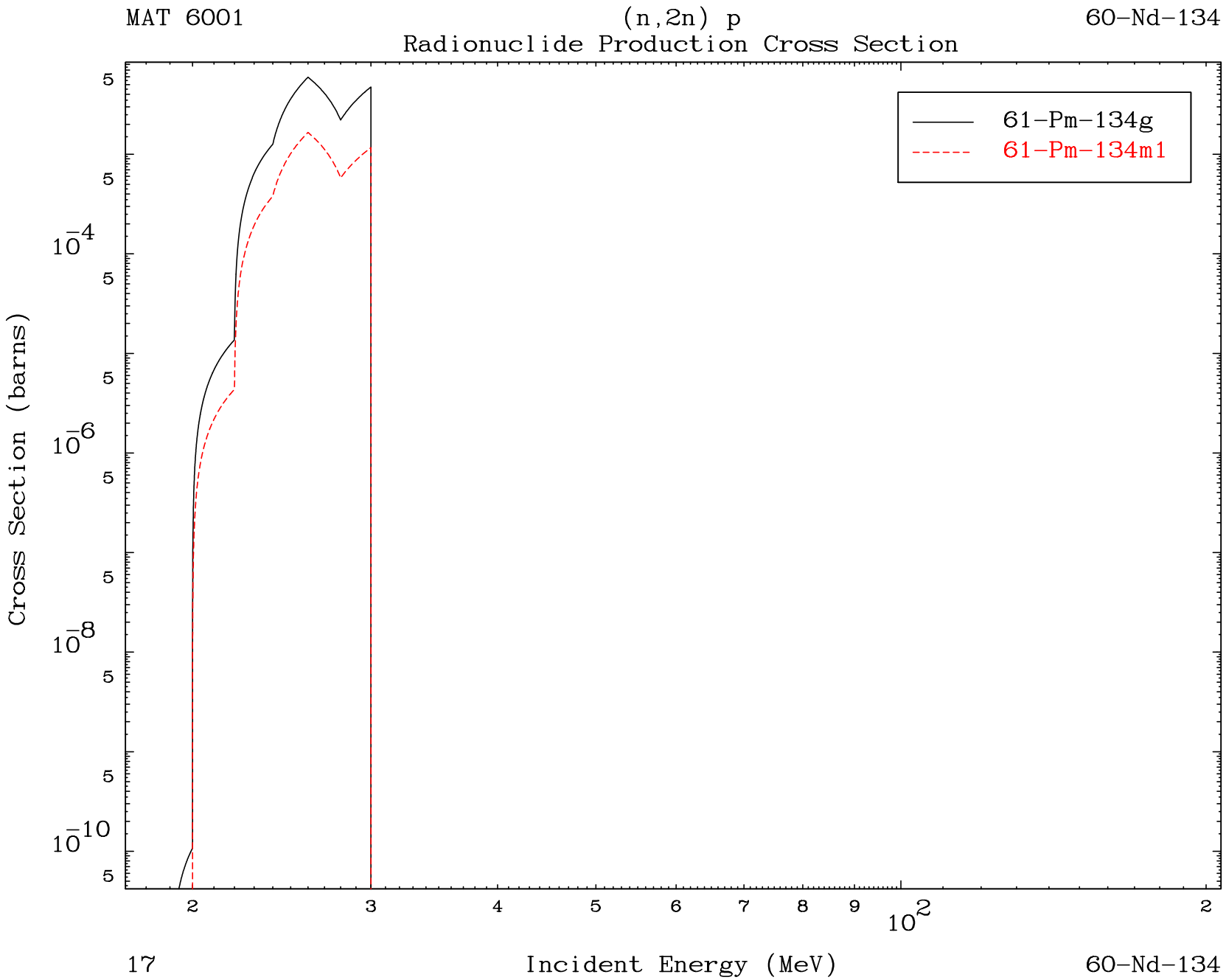

MAT 6001
(n,2n) d
60-Nd-134
Radionuclide Production Cross Section
61-Pm-133g
61-Pm-133m2
Cross Section (barns)
Incident Energy (MeV)
12
60-Nd-134

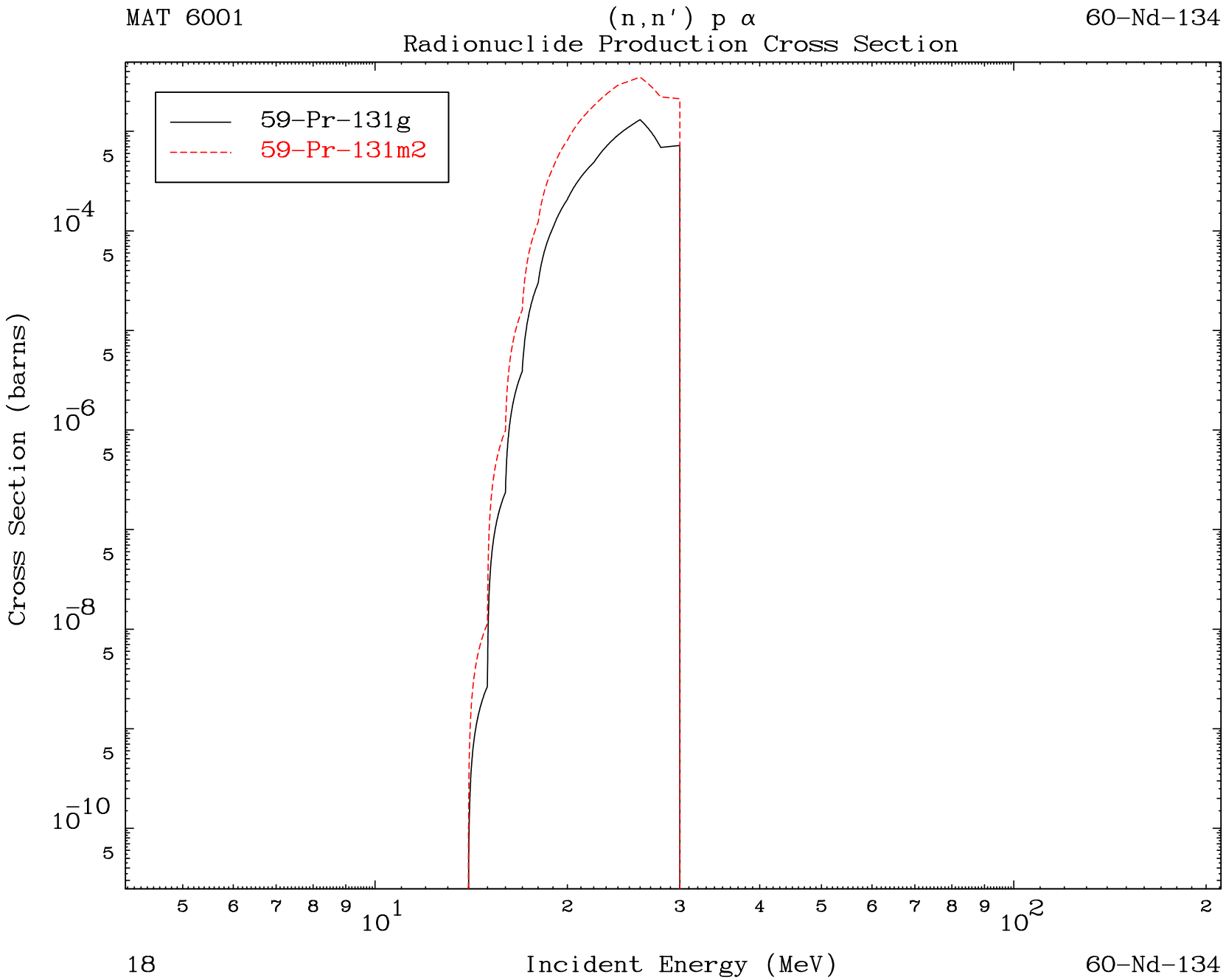

MAT 6001
(n,n') p
60-Nd-134
Radionuclide Production Cross Section
61-Pm-135g
61-Pm-135m1
Cross Section (barns)
Incident Energy (MeV)
13
60-Nd-134

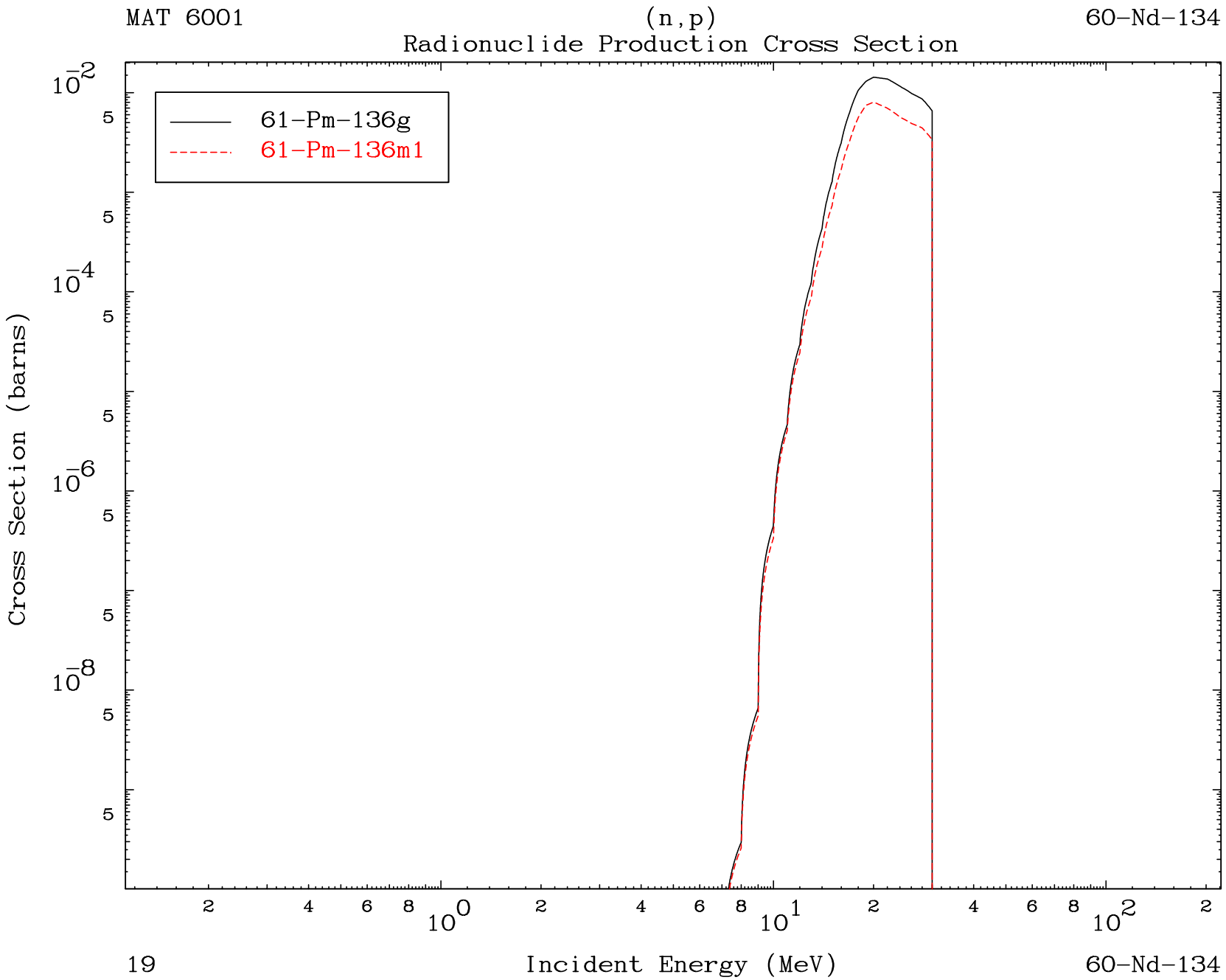

MAT 6001
(n,n') d
60-Nd-134
Radionuclide Production Cross Section
61-Pm-134g
61-Pm-134m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
14
60-Nd-134

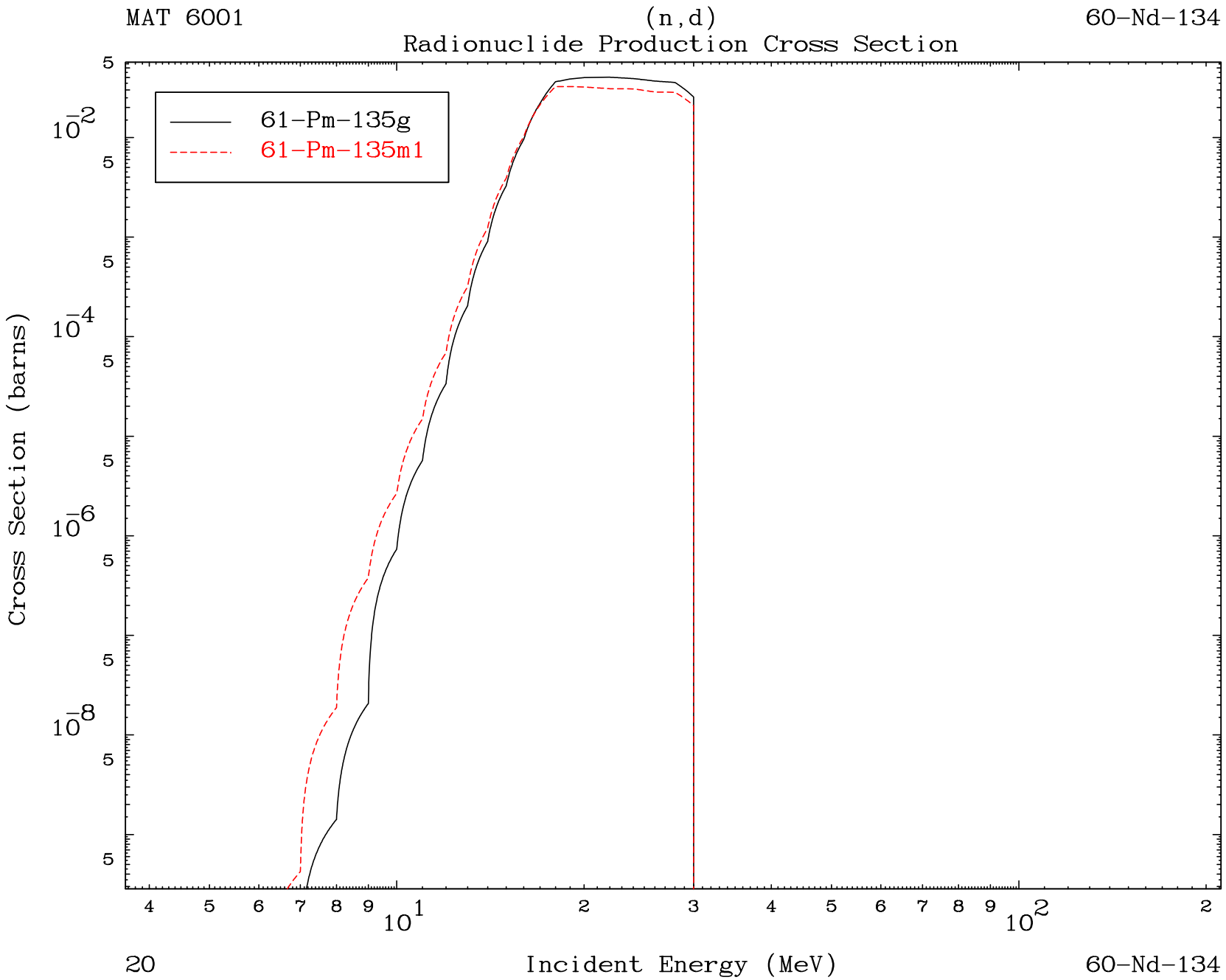

MAT 6001
(n,n') t
60-Nd-134
Radionuclide Production Cross Section
61-Pm-133g
61-Pm-133m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
60-Nd-134

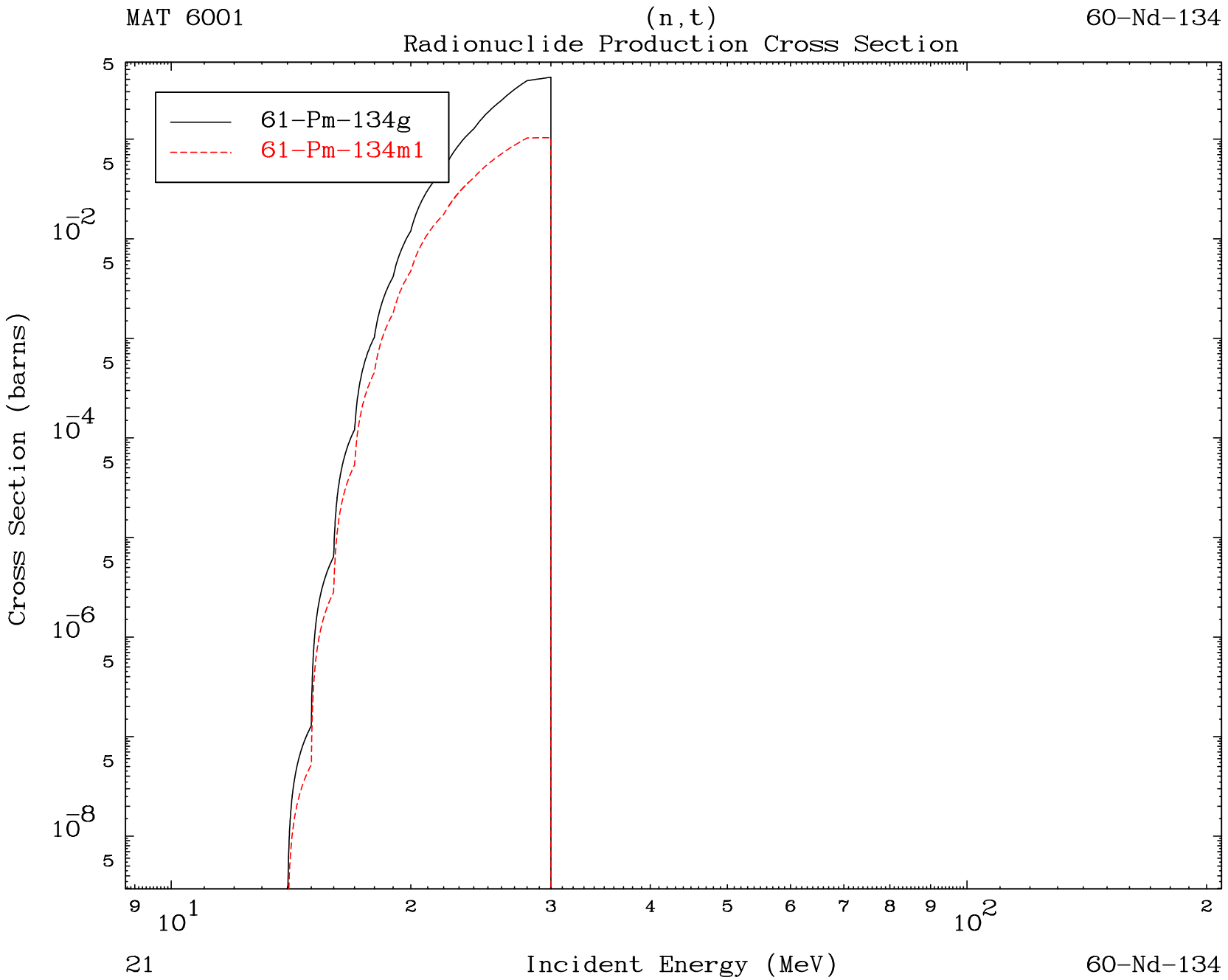

MAT 6001
(n,n') He-3
60-Nd-134
Radionuclide Production Cross Section
60-Nd-133g
60-Nd-133m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
60-Nd-134

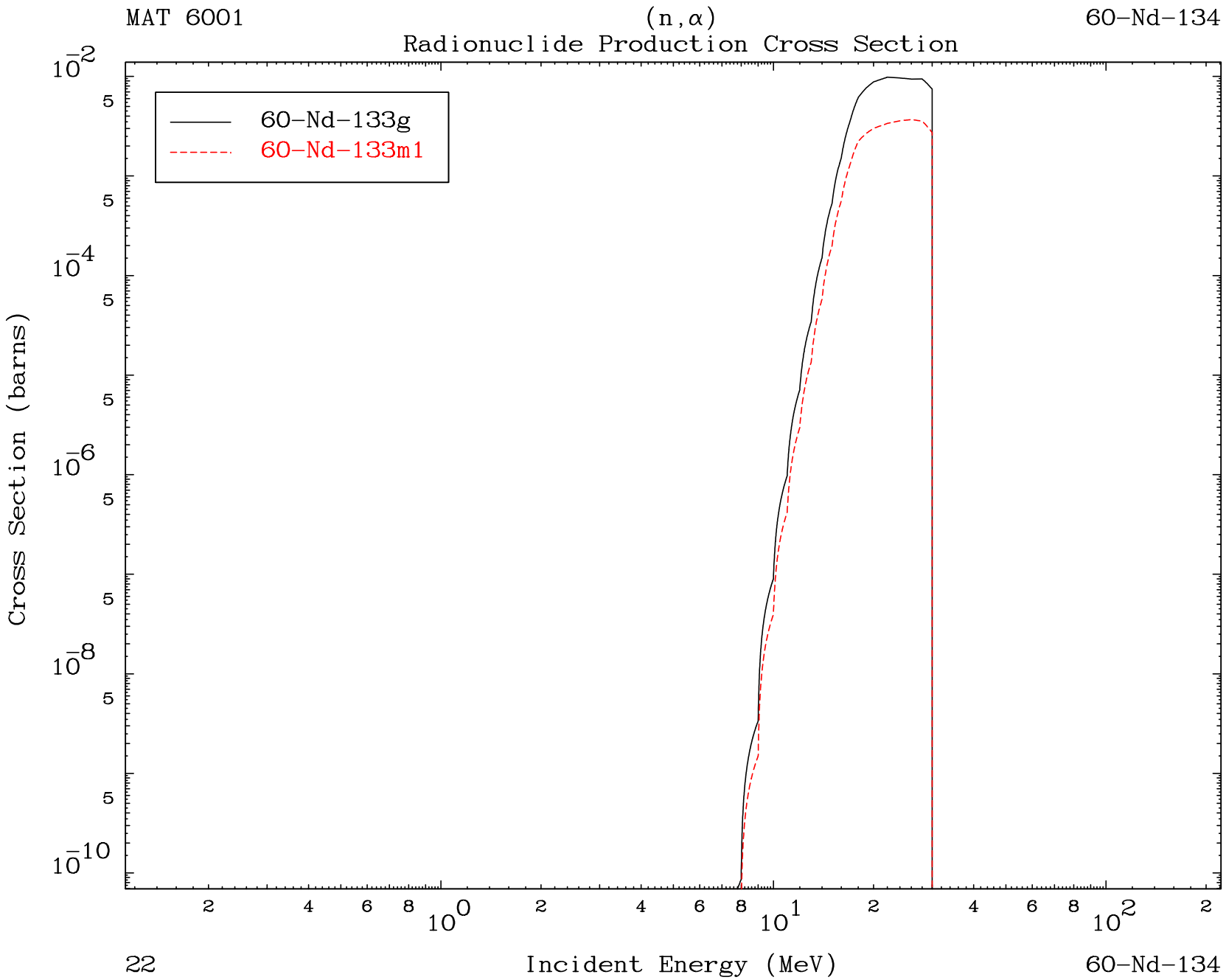

MAT 6001
(n,2n) p
60-Nd-134
Radionuclide Production Cross Section
61-Pm-134g
61-Pm-134m1
Cross Section (barns)
Incident Energy (MeV)
17
60-Nd-134

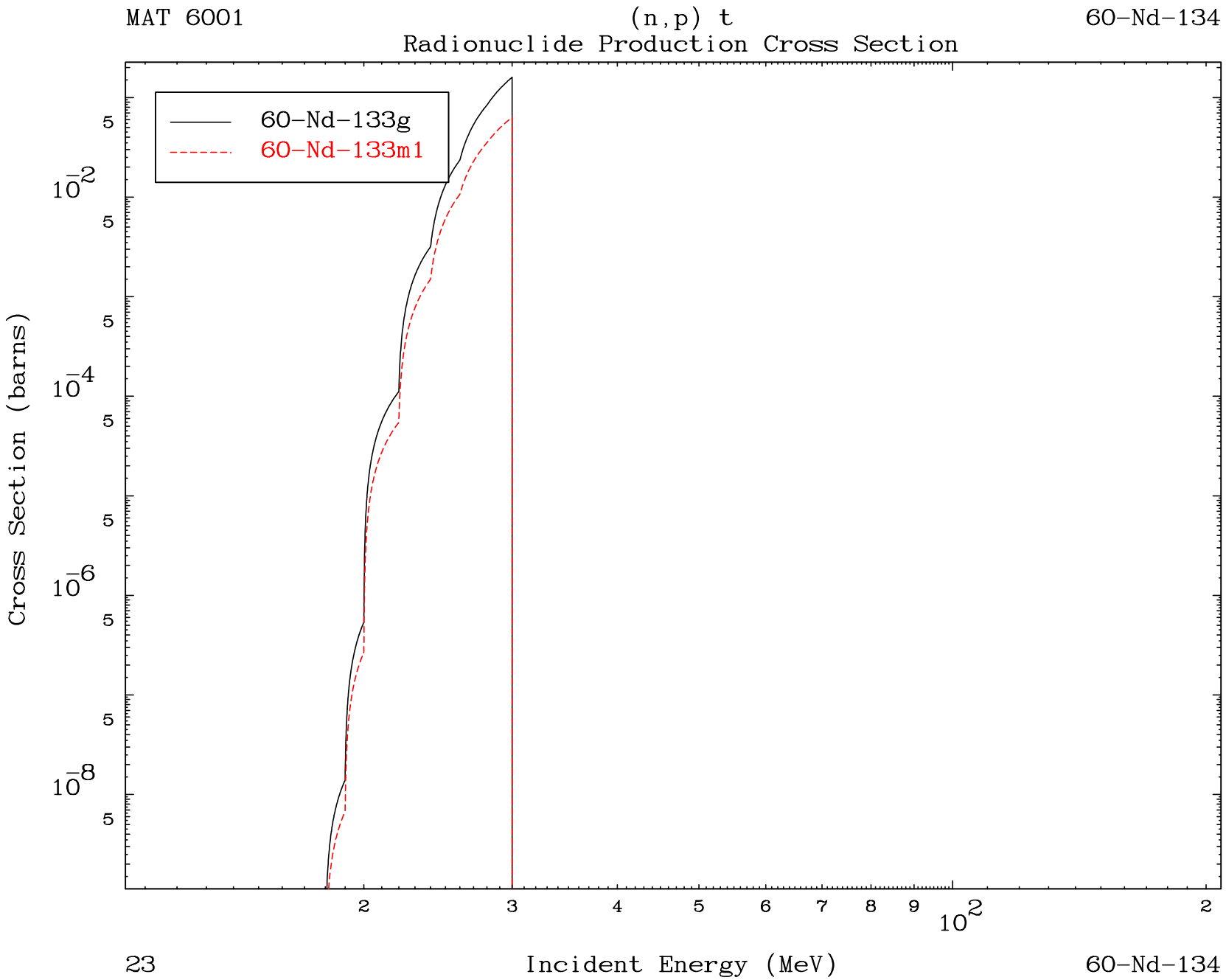

MAT 6001
(n,n') p α
60-Nd-134
Radionuclide Production Cross Section
59-Pr-131g
59-Pr-131m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^1
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
60-Nd-134

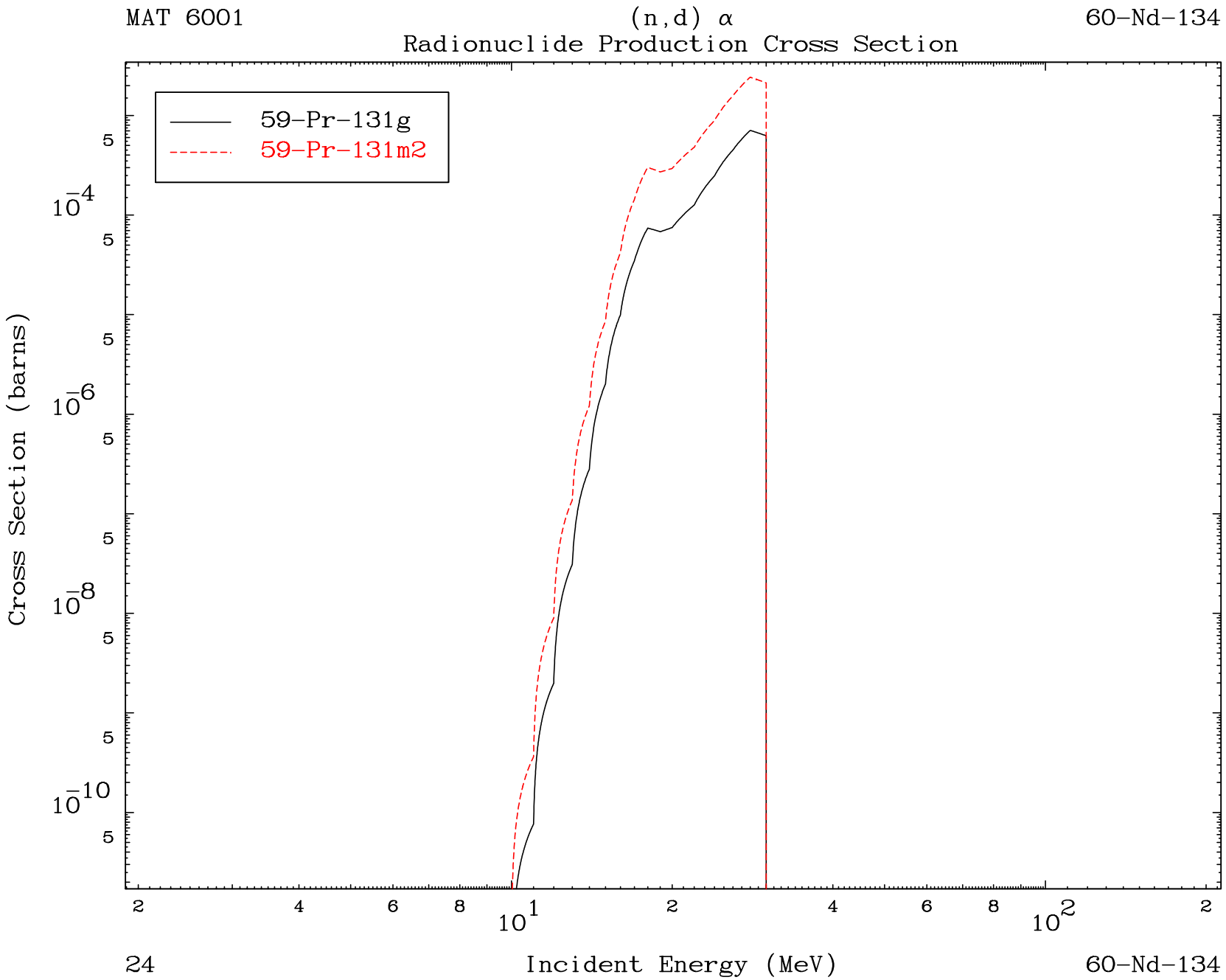

MAT 6001
(n,p)
60-Nd-134
Radionuclide Production Cross Section
61-Pm-136g
61-Pm-136m1
Cross Section (barns)
Incident Energy (MeV)
19
60-Nd-134


MAT 6001
(n,d)
60-Nd-134
Radionuclide Production Cross Section
61-Pm-135g
61-Pm-135m1
Cross Section (barns)
Incident Energy (MeV)
20
60-Nd-134


MAT 6001
(n,t)
60-Nd-134
Radionuclide Production Cross Section
61-Pm-134g
61-Pm-134m1
Cross Section (barns)
Incident Energy (MeV)
21
60-Nd-134


MAT 6001
(n,α)
60-Nd-134
Radionuclide Production Cross Section
60-Nd-133g
60-Nd-133m1
Cross Section (barns)
Incident Energy (MeV)
22
60-Nd-134


MAT 6001
(n,p) t
60-Nd-134
Radionuclide Production Cross Section
60-Nd-133g
60-Nd-133m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
60-Nd-134


MAT 6001
(n,d) α
60-Nd-134
Radionuclide Production Cross Section
59-Pr-131g
59-Pr-131m2
Cross Section (barns)
10-4
10-6
10-8
10-10
2
4
6
8
10 1
2
4
6
8
10 2
2
24
Incident Energy (MeV)
60-Nd-134