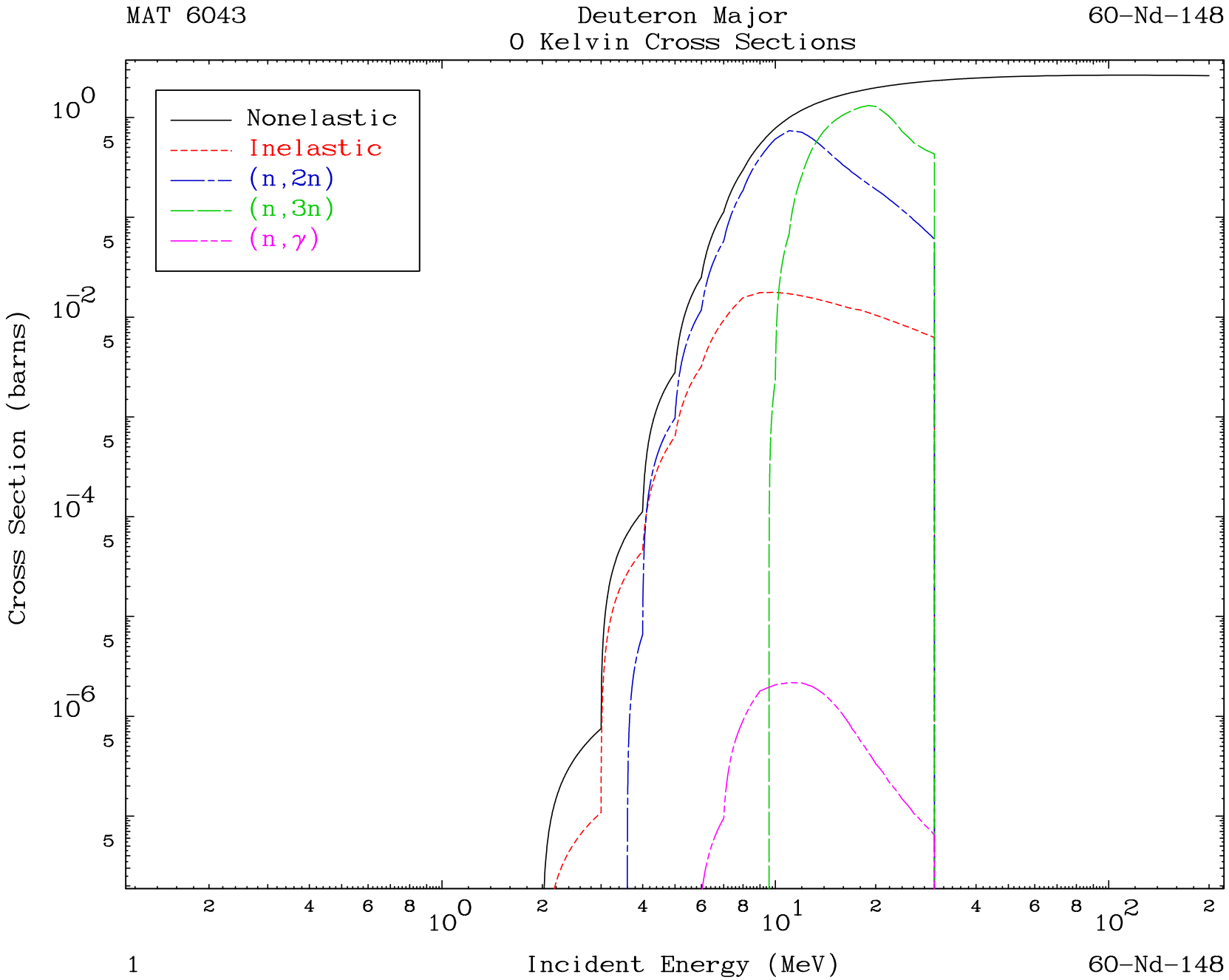
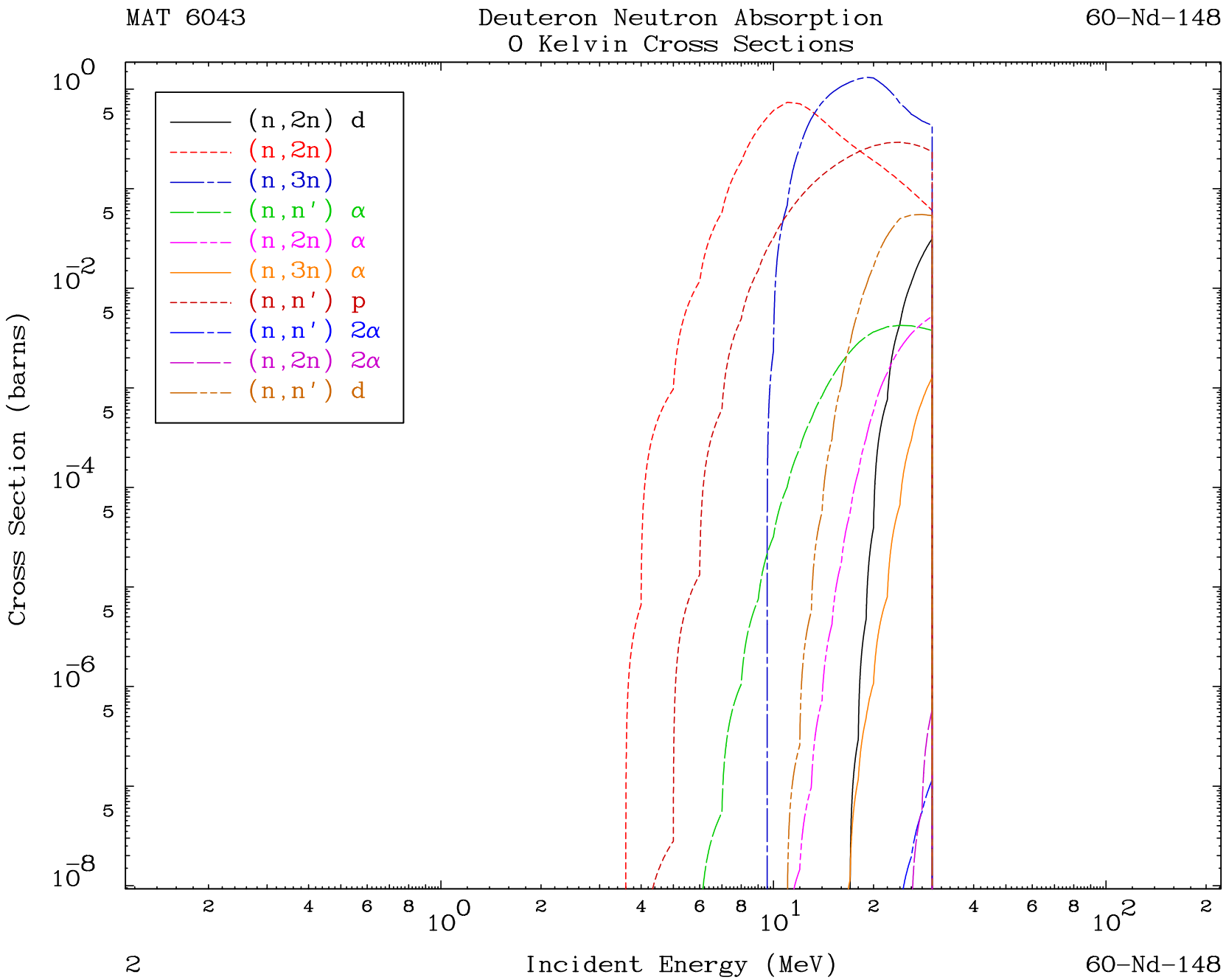
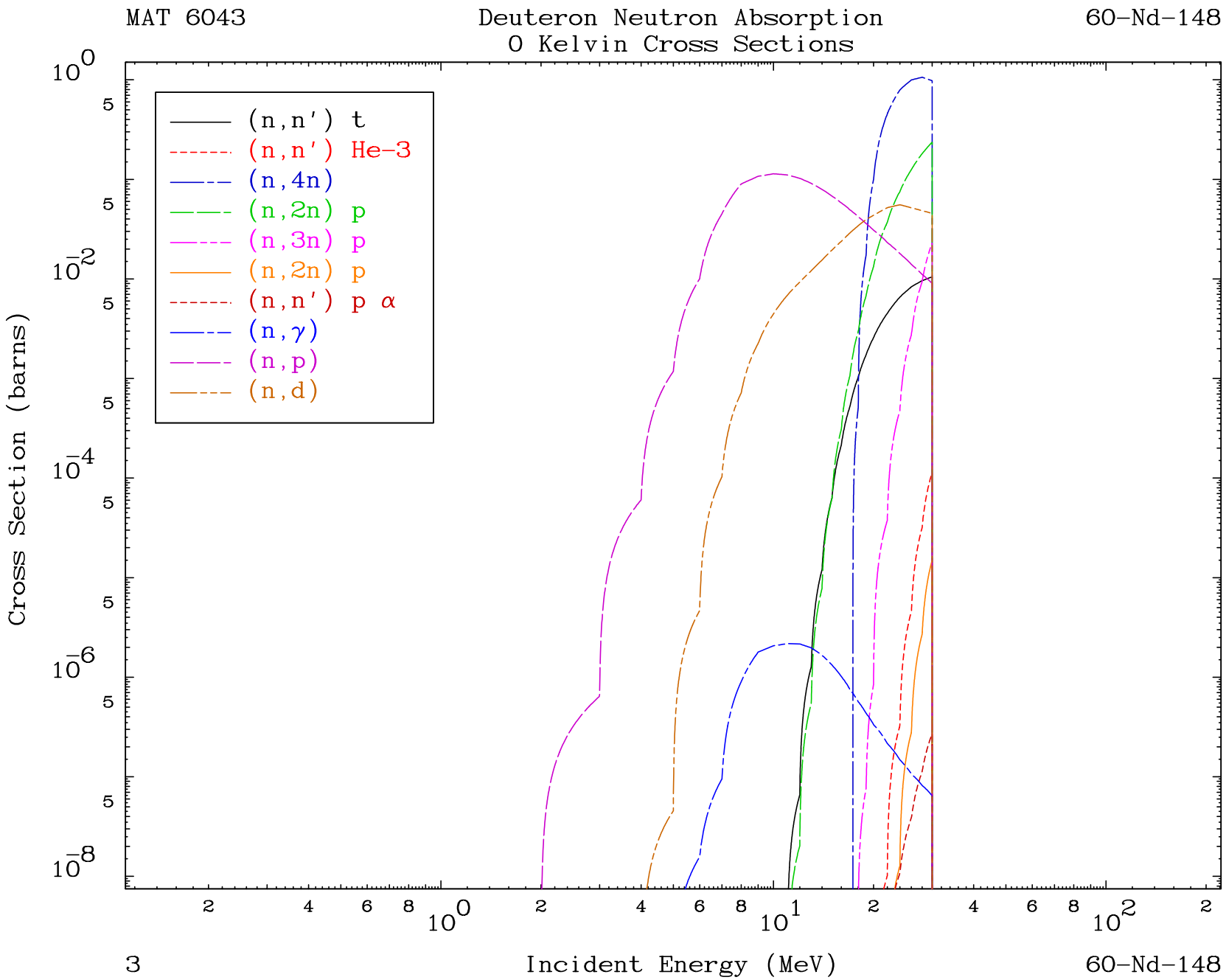
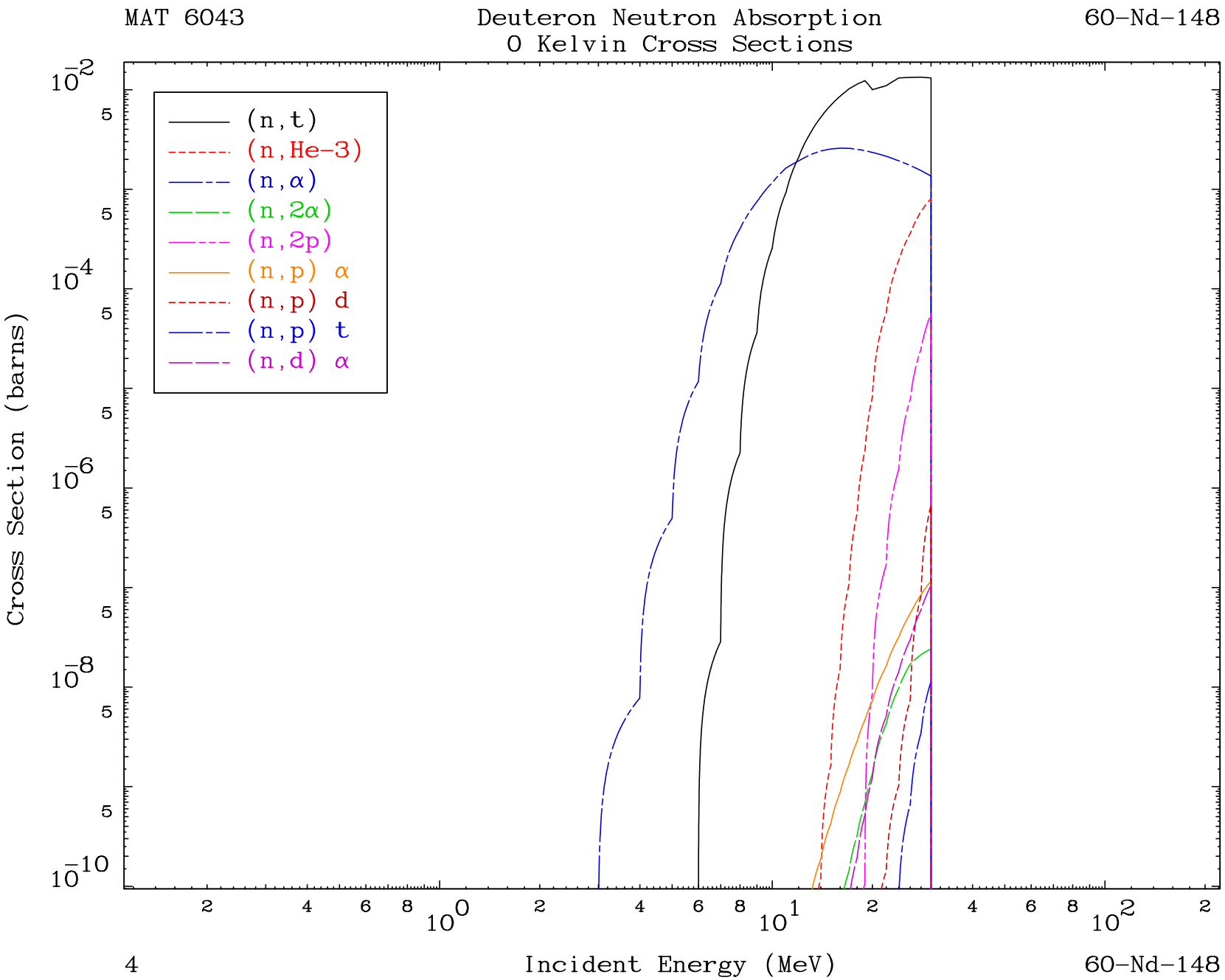
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

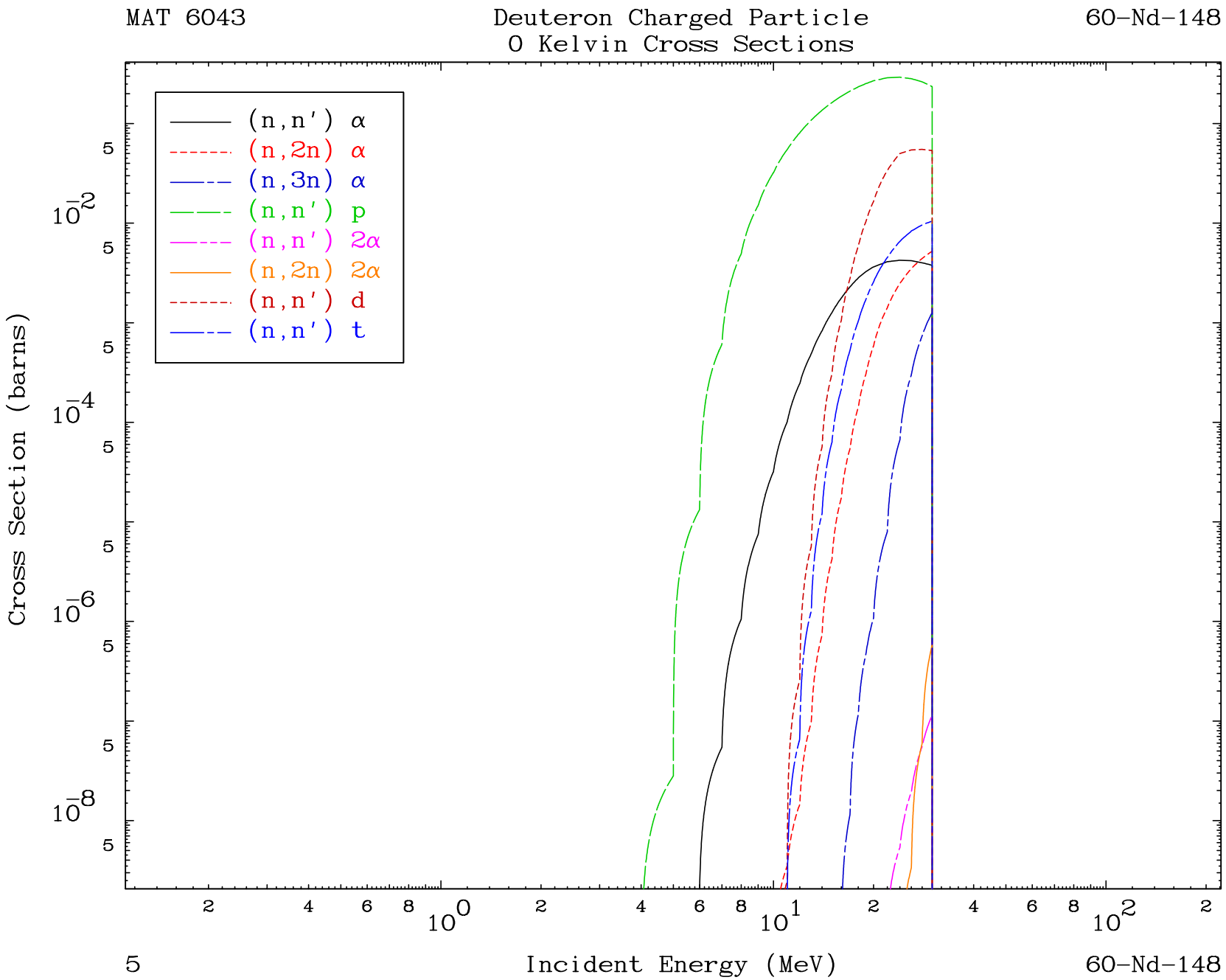
Press Mouse Button to Start

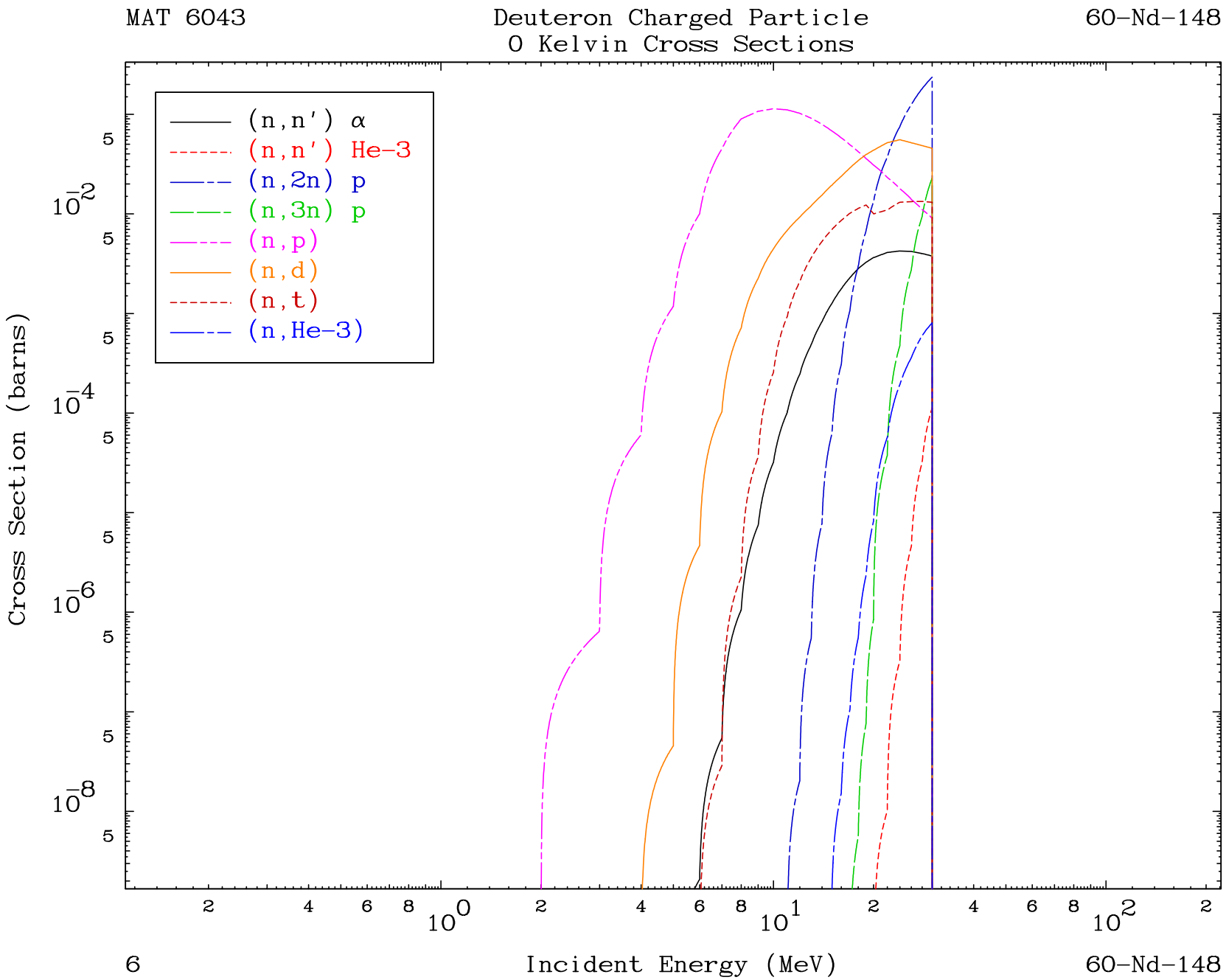

MAT 6043
Deuteron Major
60-Nd-148
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-148
1

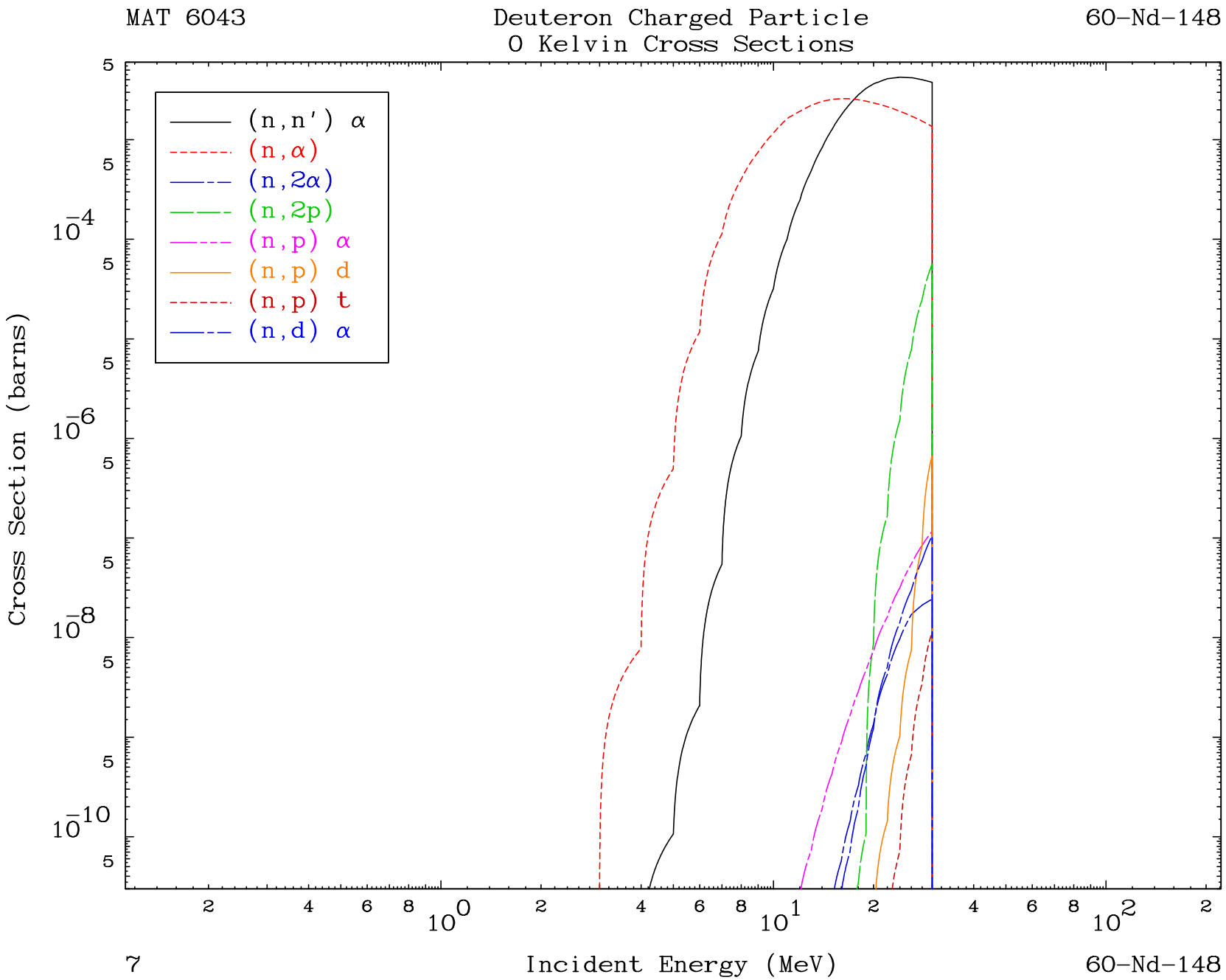

MAT 6043
Deuteron Neutron Absorption
0 Kelvin Cross Sections
60-Nd-148
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
2
60-Nd-148

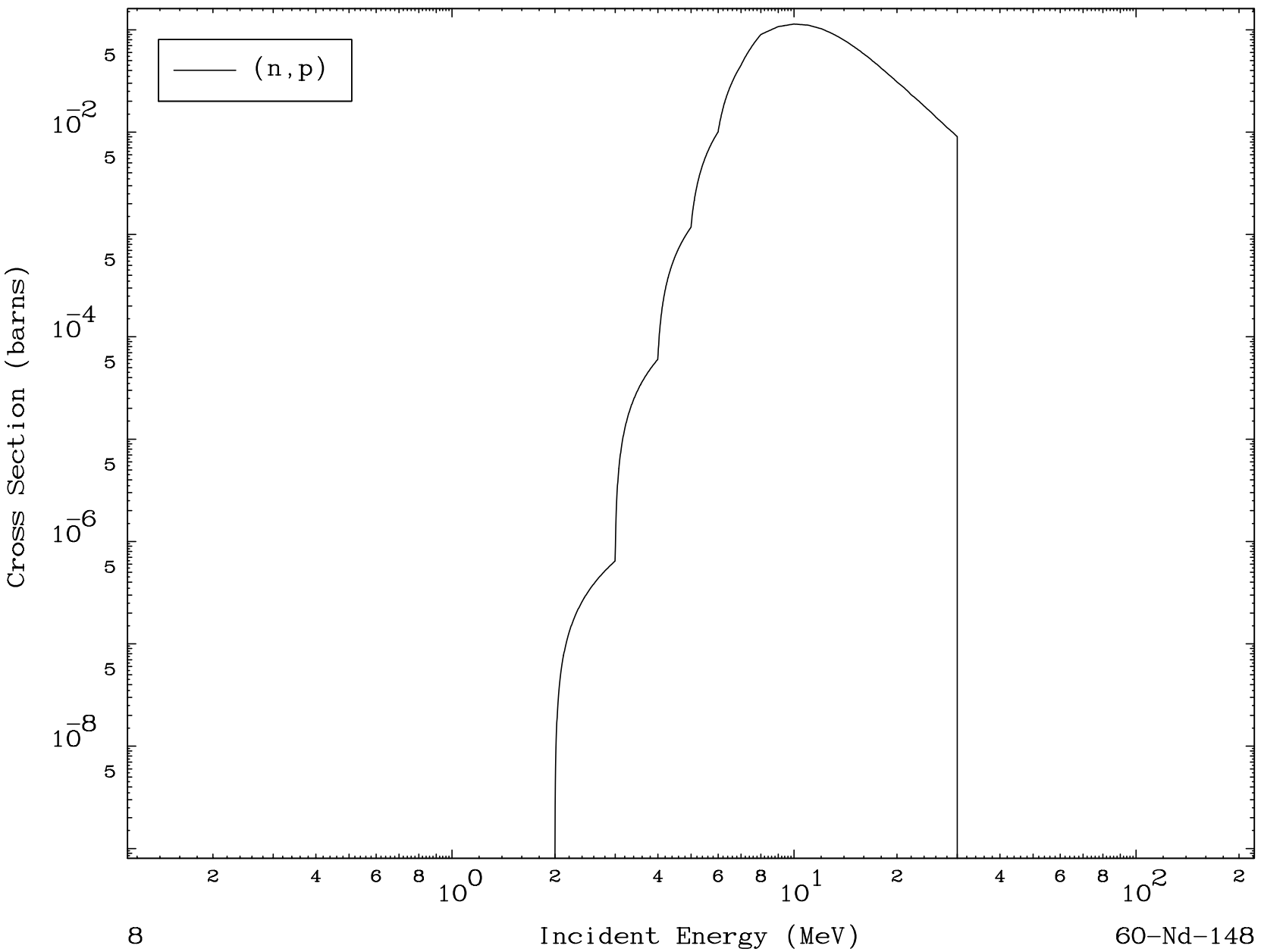

MAT 6043
Deuteron Neutron Absorption
0 Kelvin Cross Sections
60-Nd-148
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
3
60-Nd-148

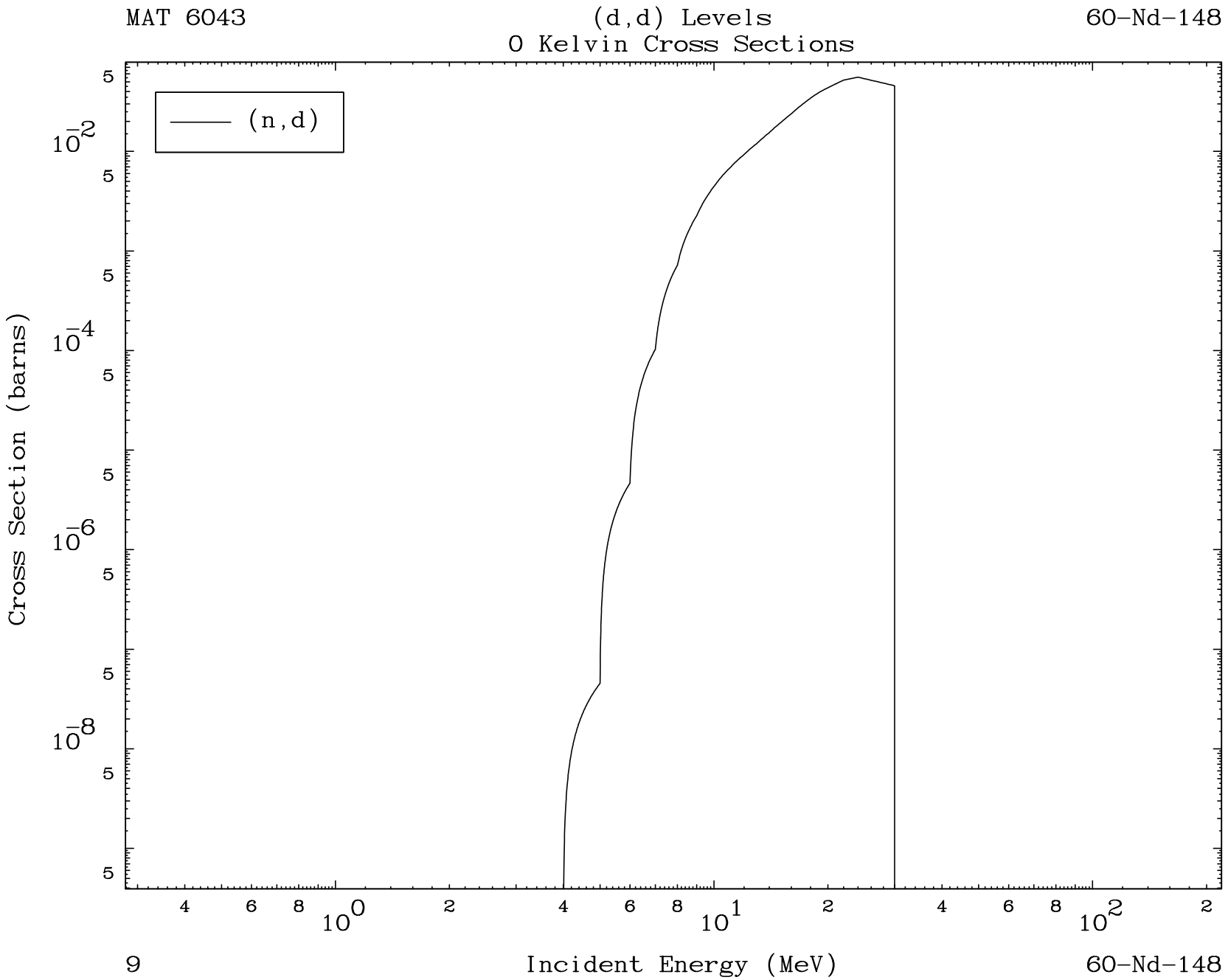

MAT 6043
Deuteron Neutron Absorption
0 Kelvin Cross Sections
60-Nd-148
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
60-Nd-148

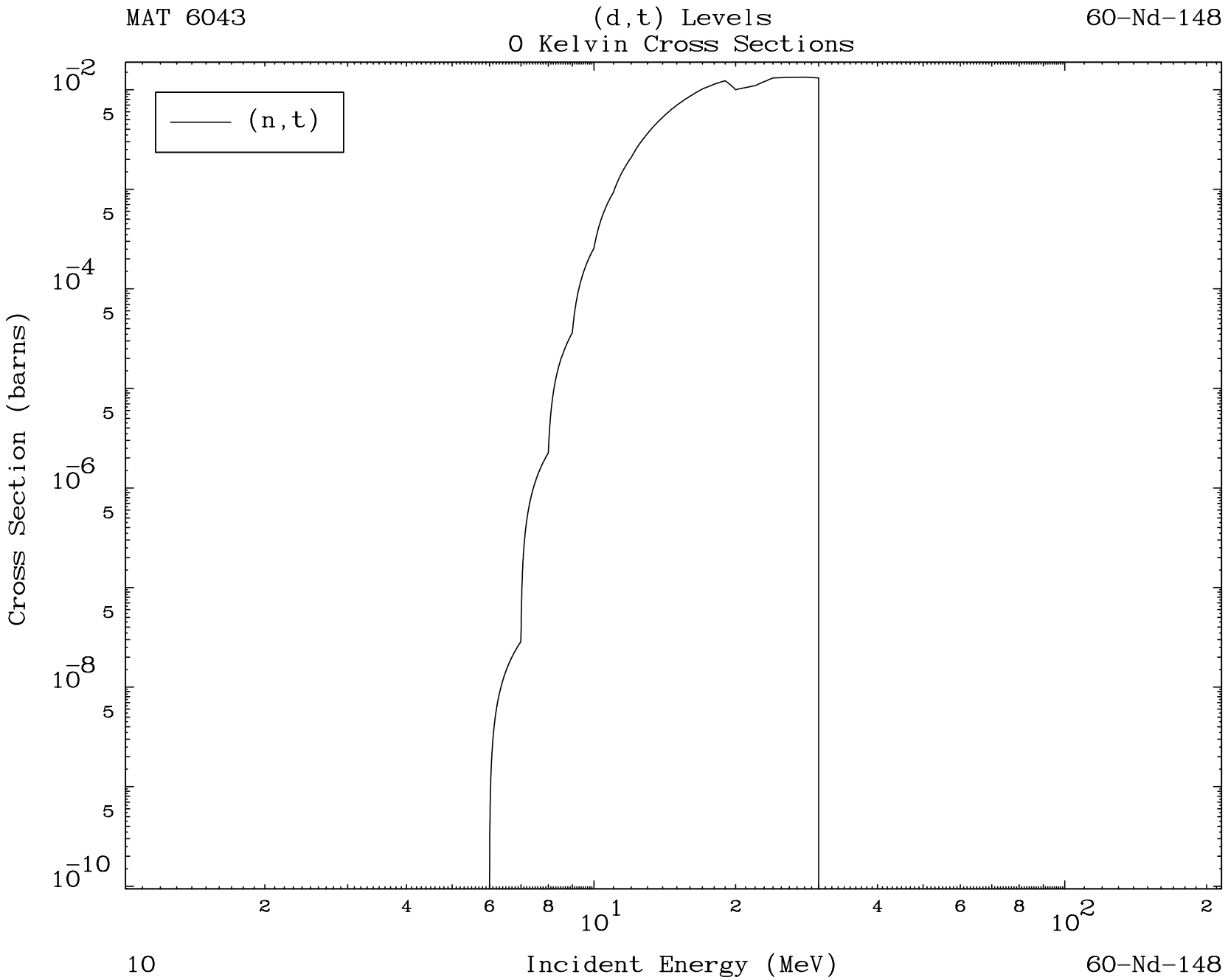

MAT 6043
Deuteron Charged Particle
0 Kelvin Cross Sections
60-Nd-148
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
5
60-Nd-148

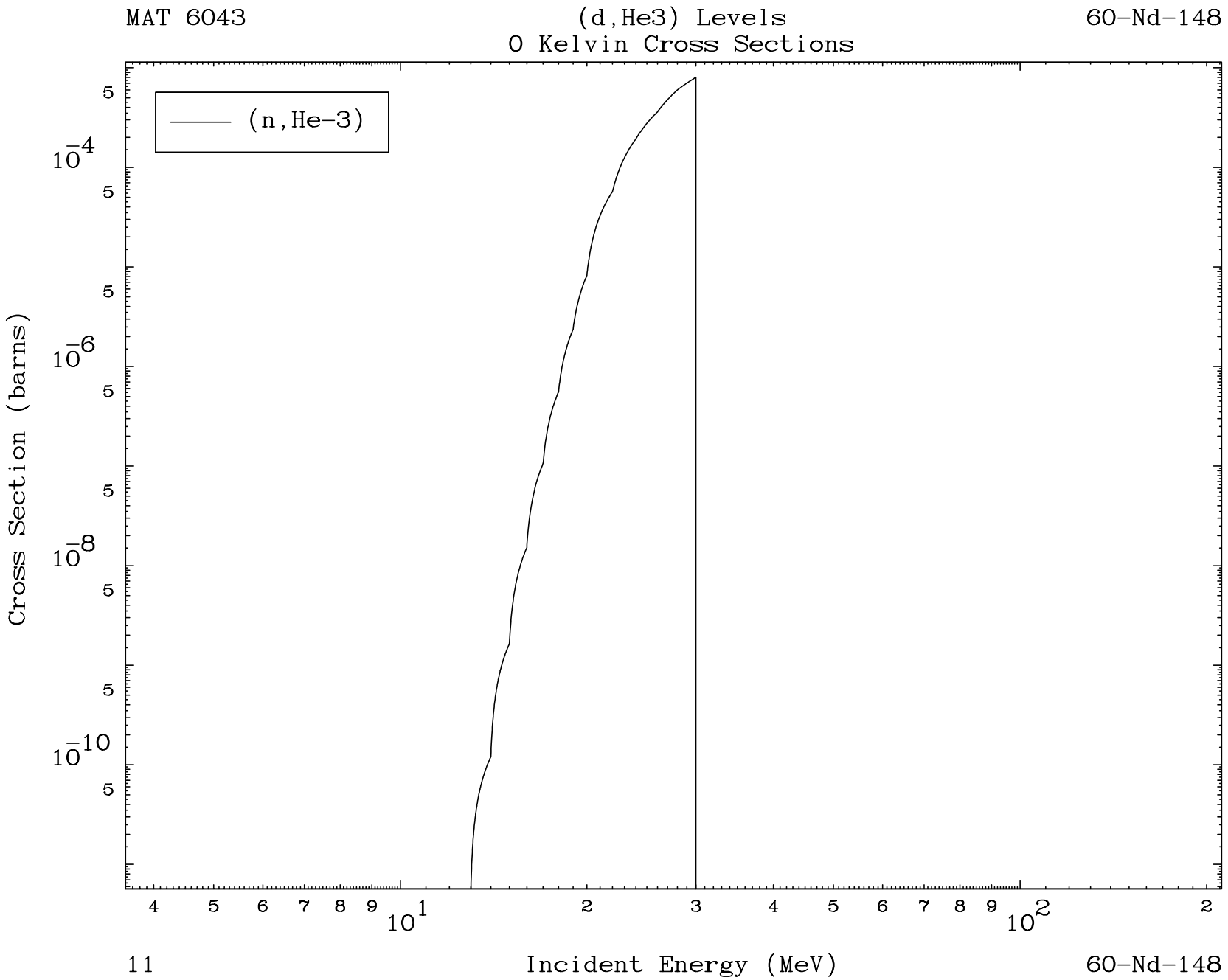

MAT 6043
Deuteron Charged Particle
0 Kelvin Cross Sections
60-Nd-148
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
6
60-Nd-148

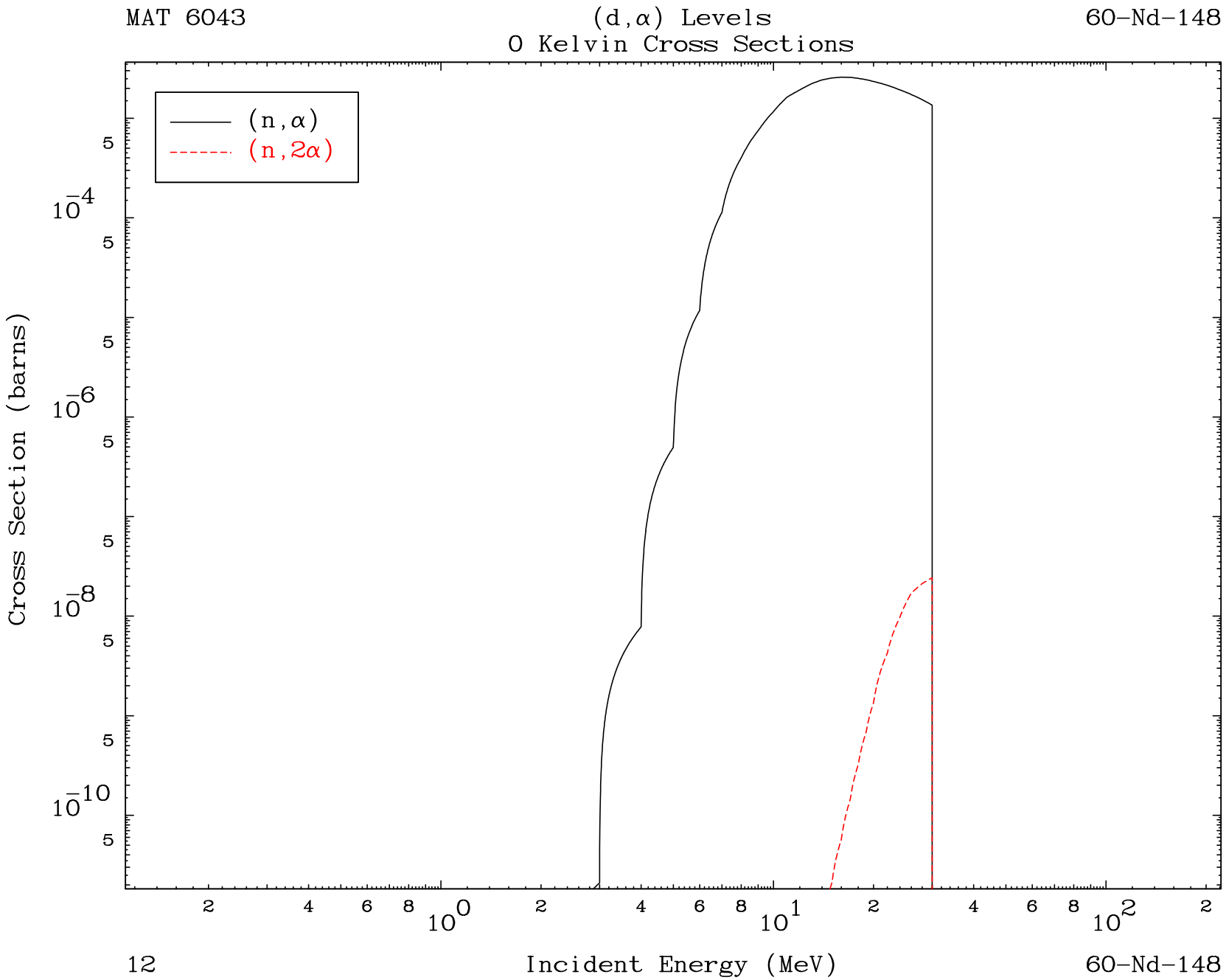

MAT 6043
Deuteron Charged Particle
0 Kelvin Cross Sections
60-Nd-148
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
7
60-Nd-148

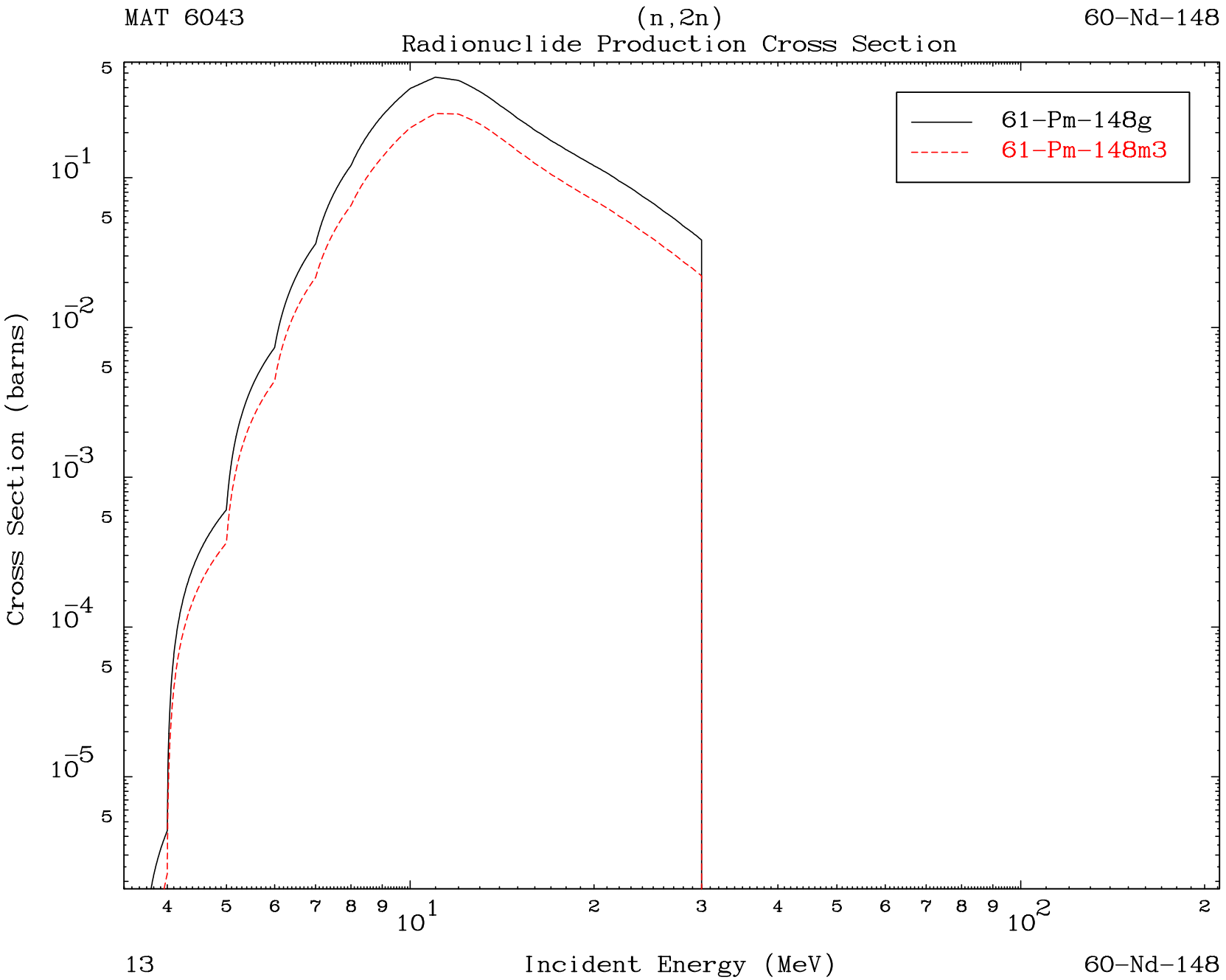

0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)

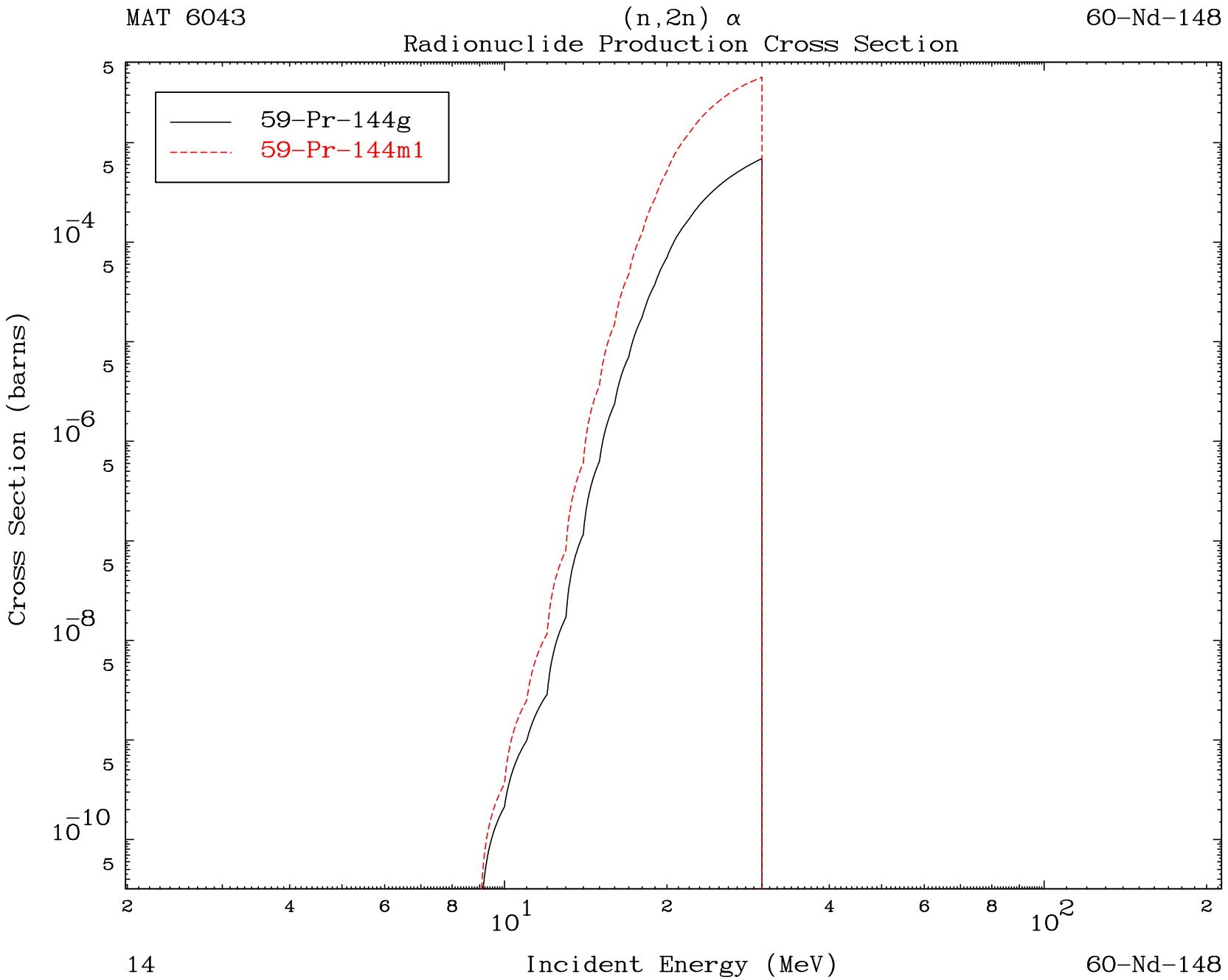

MAT 6043
(d,d) Levels
60-Nd-148
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
60-Nd-148

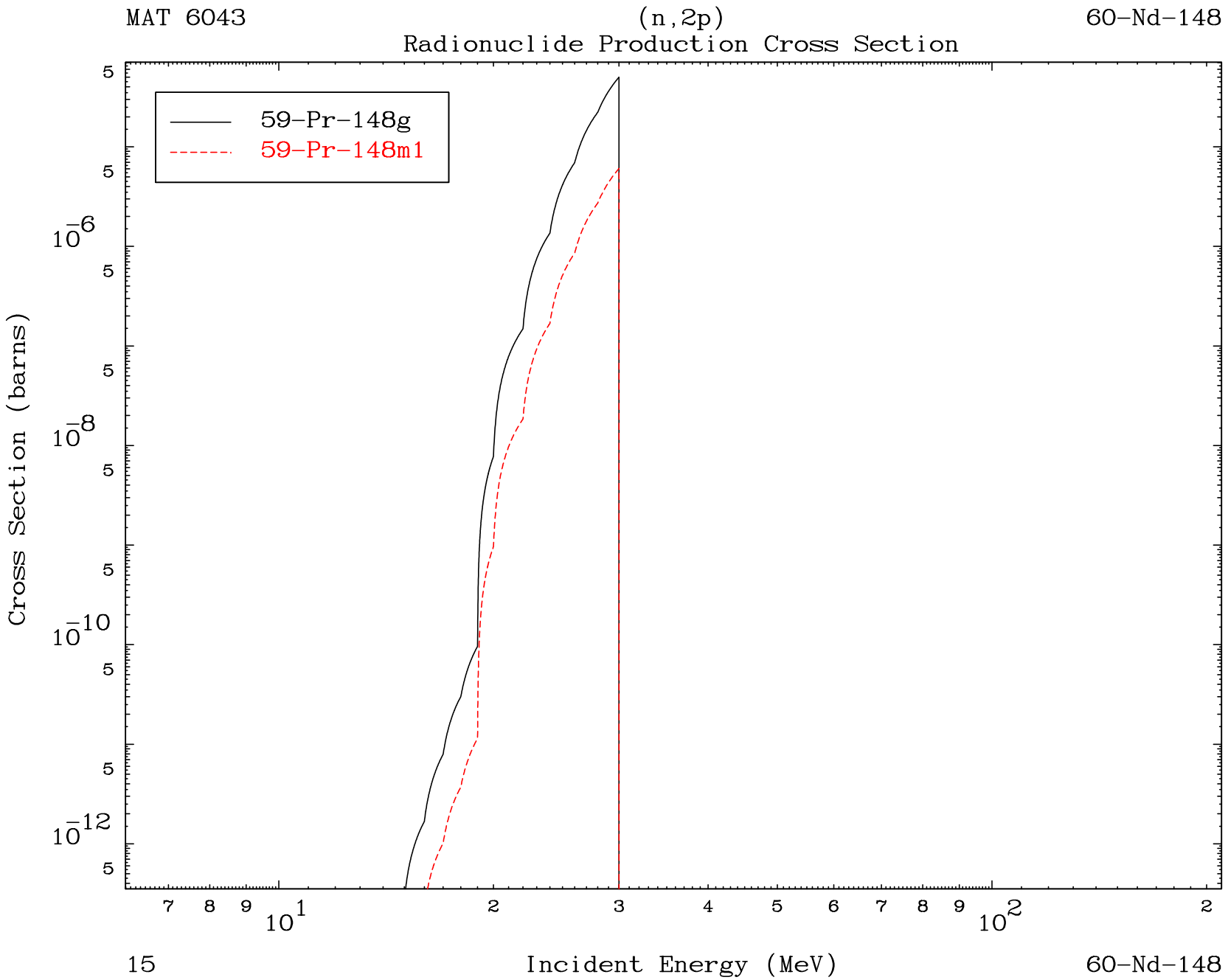

MAT 6043
(d,t) Levels
60-Nd-148
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
60-Nd-148


MAT 6043
(d,He3) Levels
60-Nd-148
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
11
60-Nd-148


MAT 6043
(d,α) Levels
60-Nd-148
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
12
60-Nd-148


MAT 6043
(n,2n)
60-Nd-148
Radionuclide Production Cross Section
61-Pm-148g
61-Pm-148m3
Cross Section (barns)
Incident Energy (MeV)
13
60-Nd-148


MAT 6043
(n,2n) α
60-Nd-148
Radionuclide Production Cross Section
59-Pr-144g
59-Pr-144m1
Cross Section (barns)
Incident Energy (MeV)
14
60-Nd-148


MAT 6043
(n,2p)
60-Nd-148
Radionuclide Production Cross Section
59-Pr-148g
59-Pr-148m1
Cross Section (barns)
Incident Energy (MeV)
15
60-Nd-148