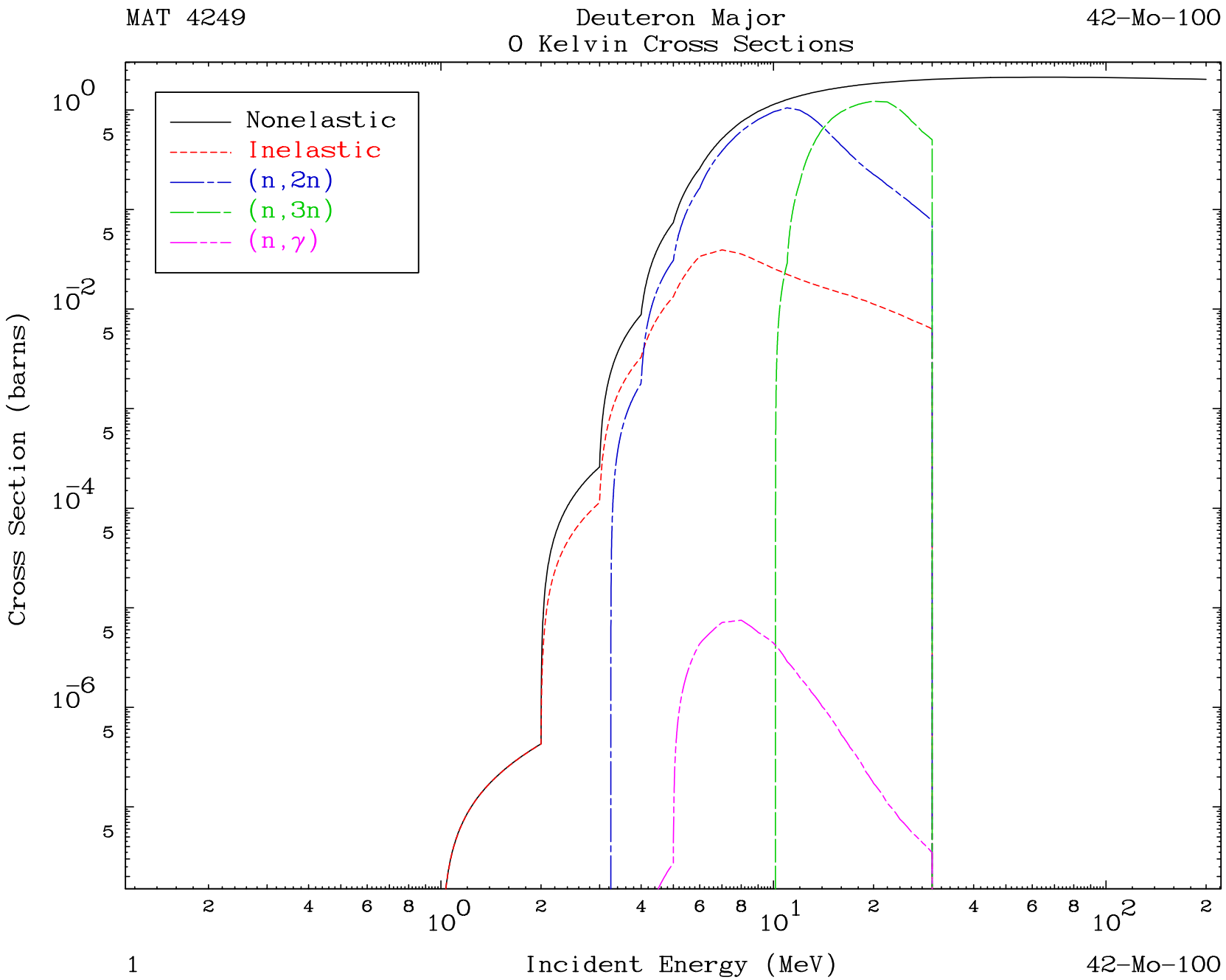
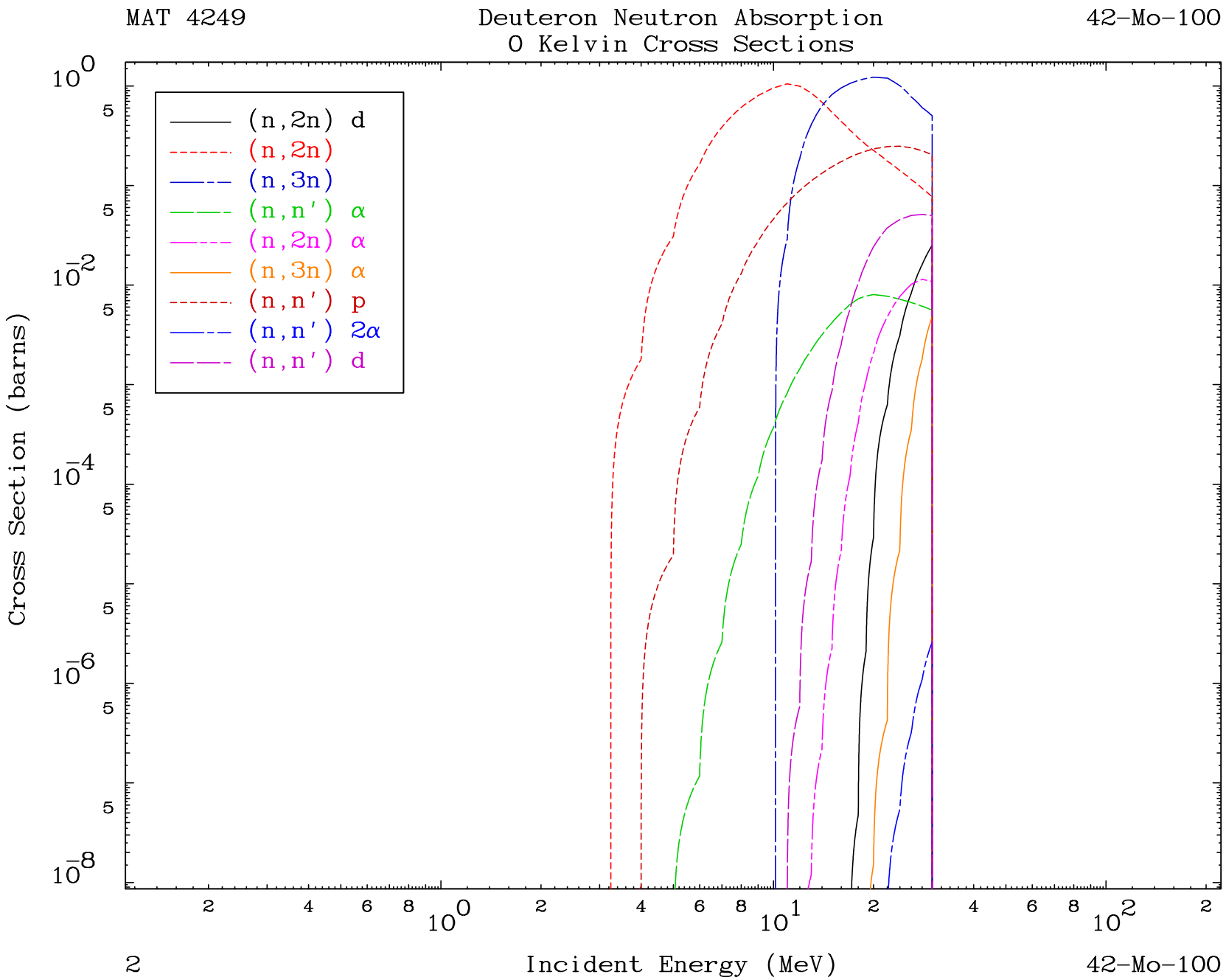
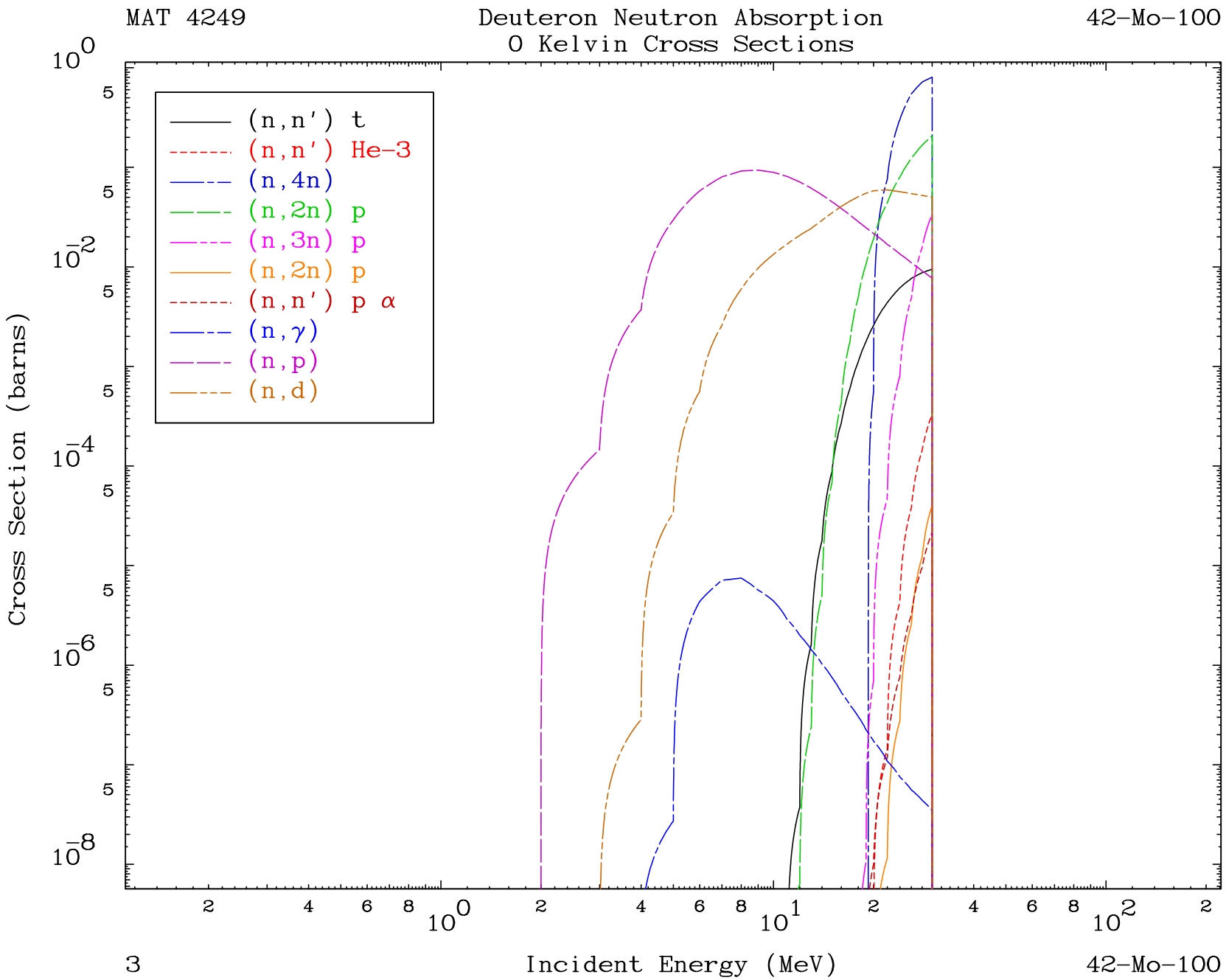
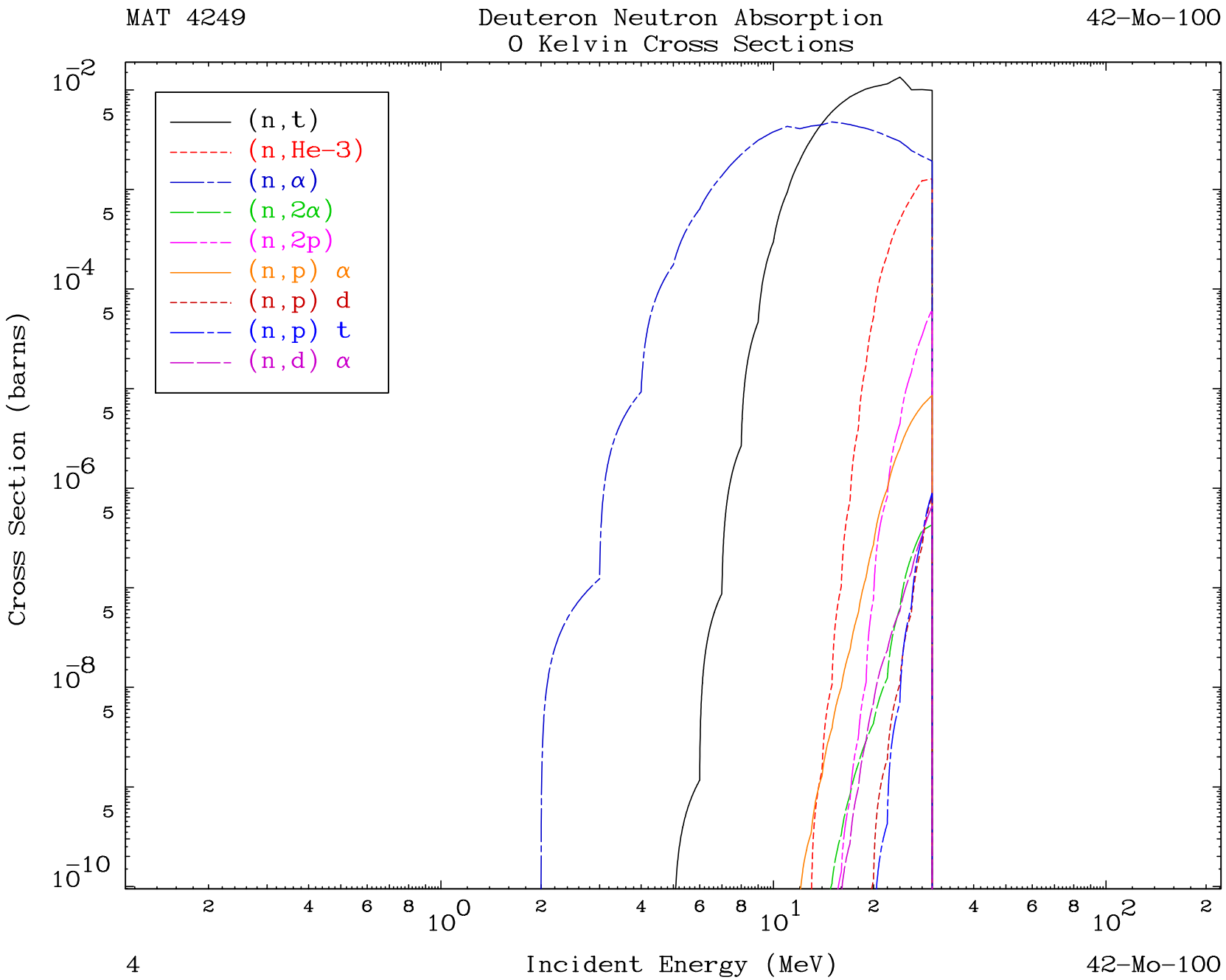
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

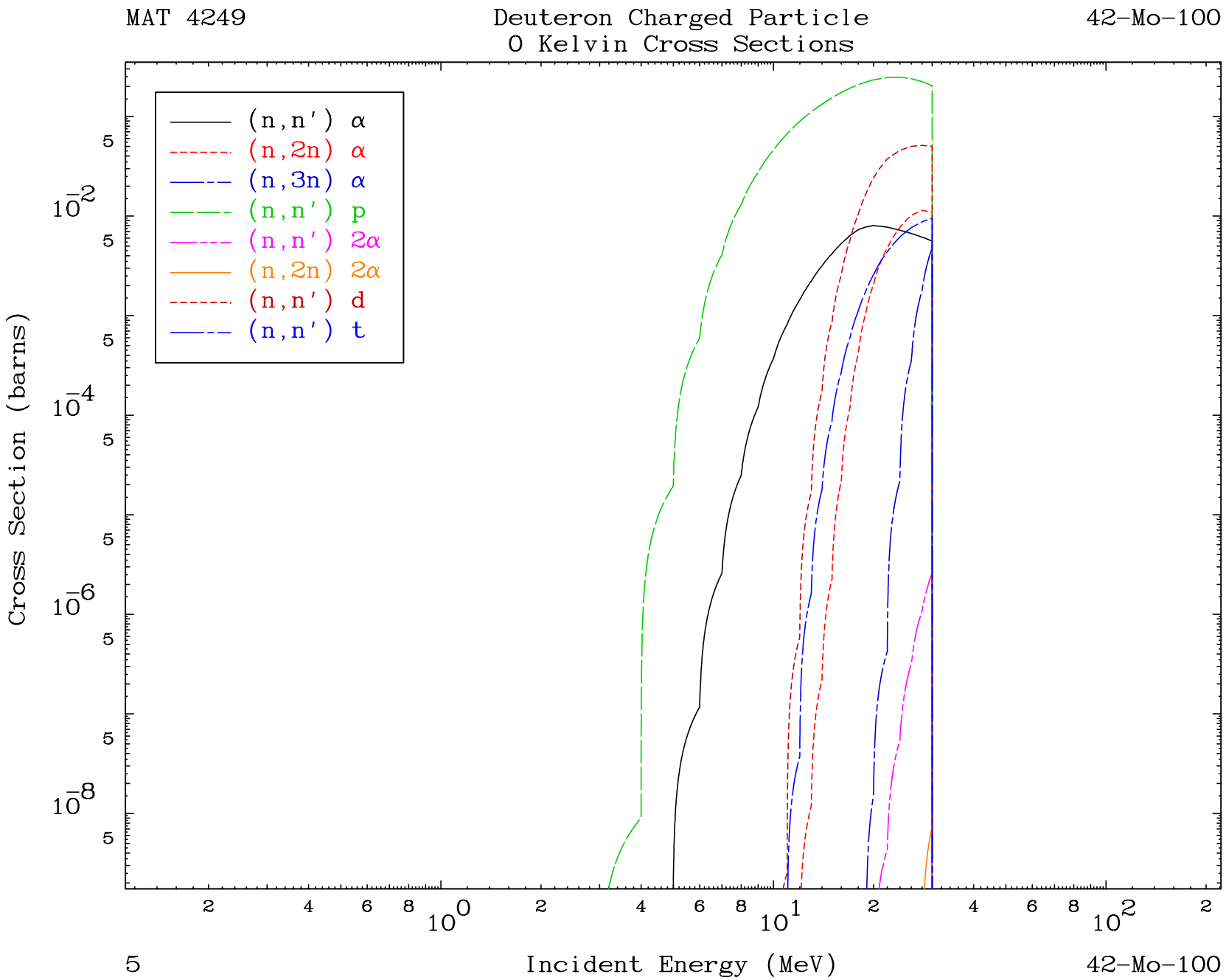
Press Mouse Button to Start

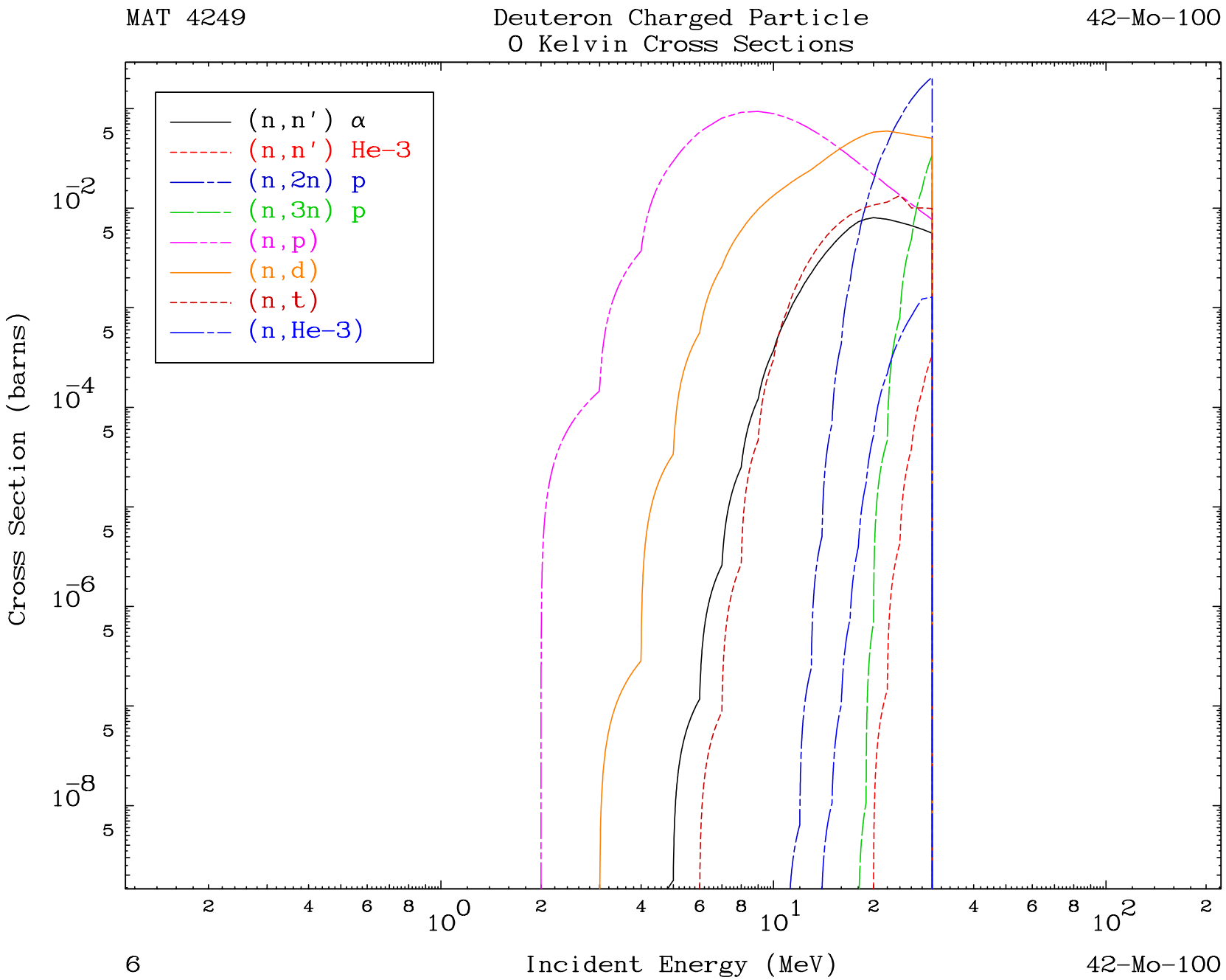

MAT 4249
Deuteron Major
42-Mo-100
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
42-Mo-100
1

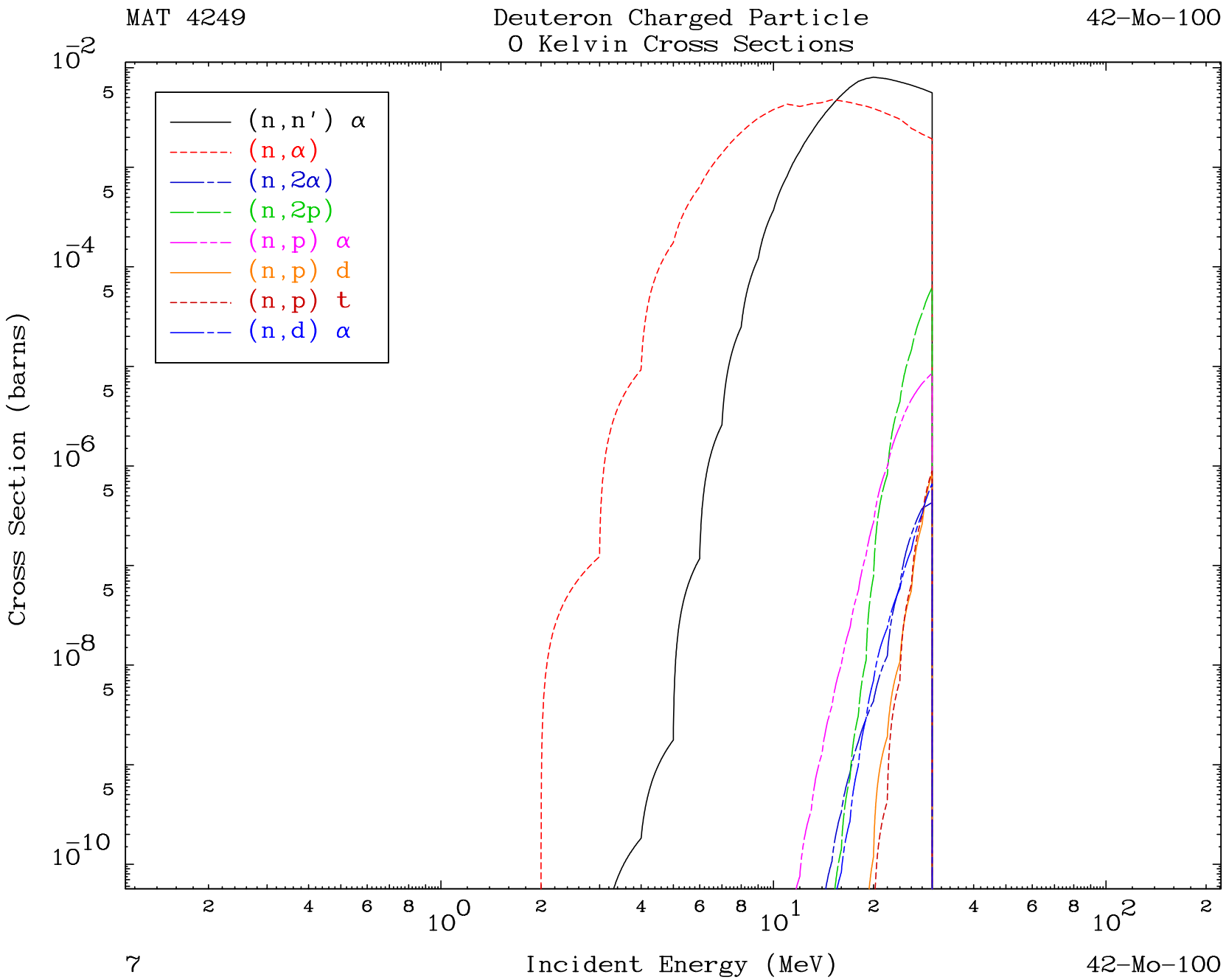

MAT 4249
Deuteron Neutron Absorption
0 Kelvin Cross Sections
42-Mo-100
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
42-Mo-100
2

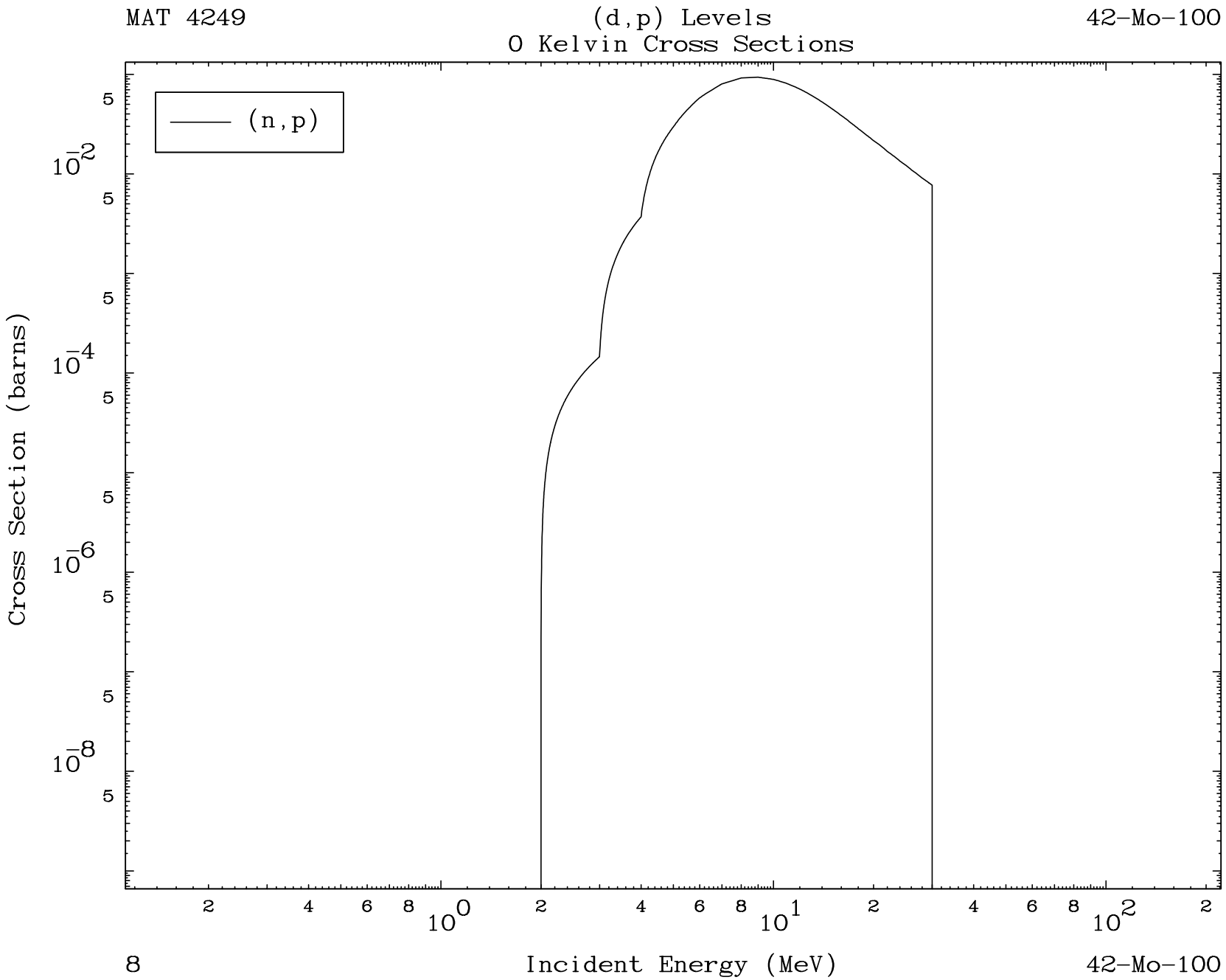

MAT 4249
Deuteron Neutron Absorption
0 Kelvin Cross Sections
42-Mo-100
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
3
42-Mo-100

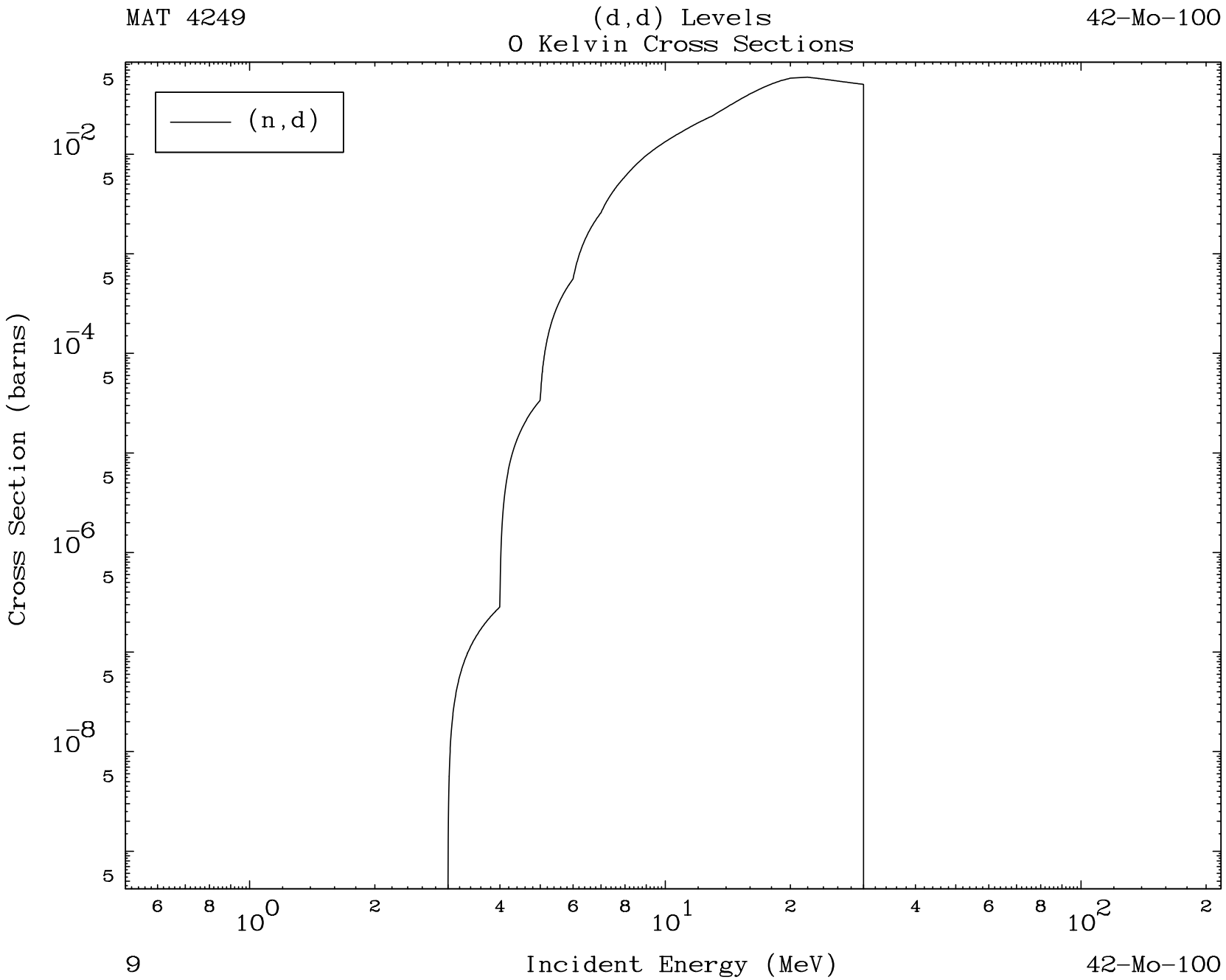

MAT 4249
Deuteron Neutron Absorption
0 Kelvin Cross Sections
42-Mo-100
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
42-Mo-100

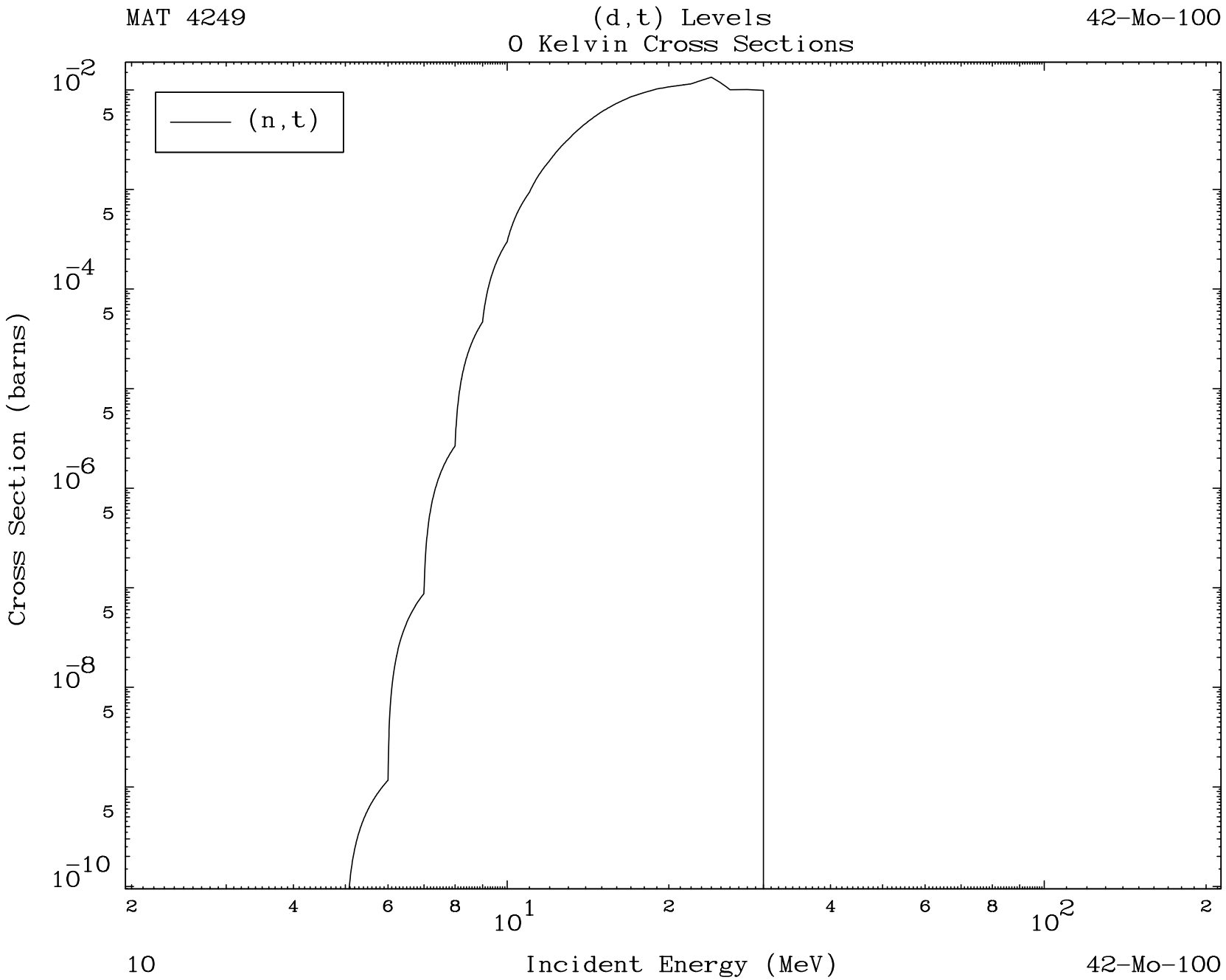

MAT 4249
Deuteron Charged Particle
0 Kelvin Cross Sections
42-Mo-100
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
42-Mo-100
5

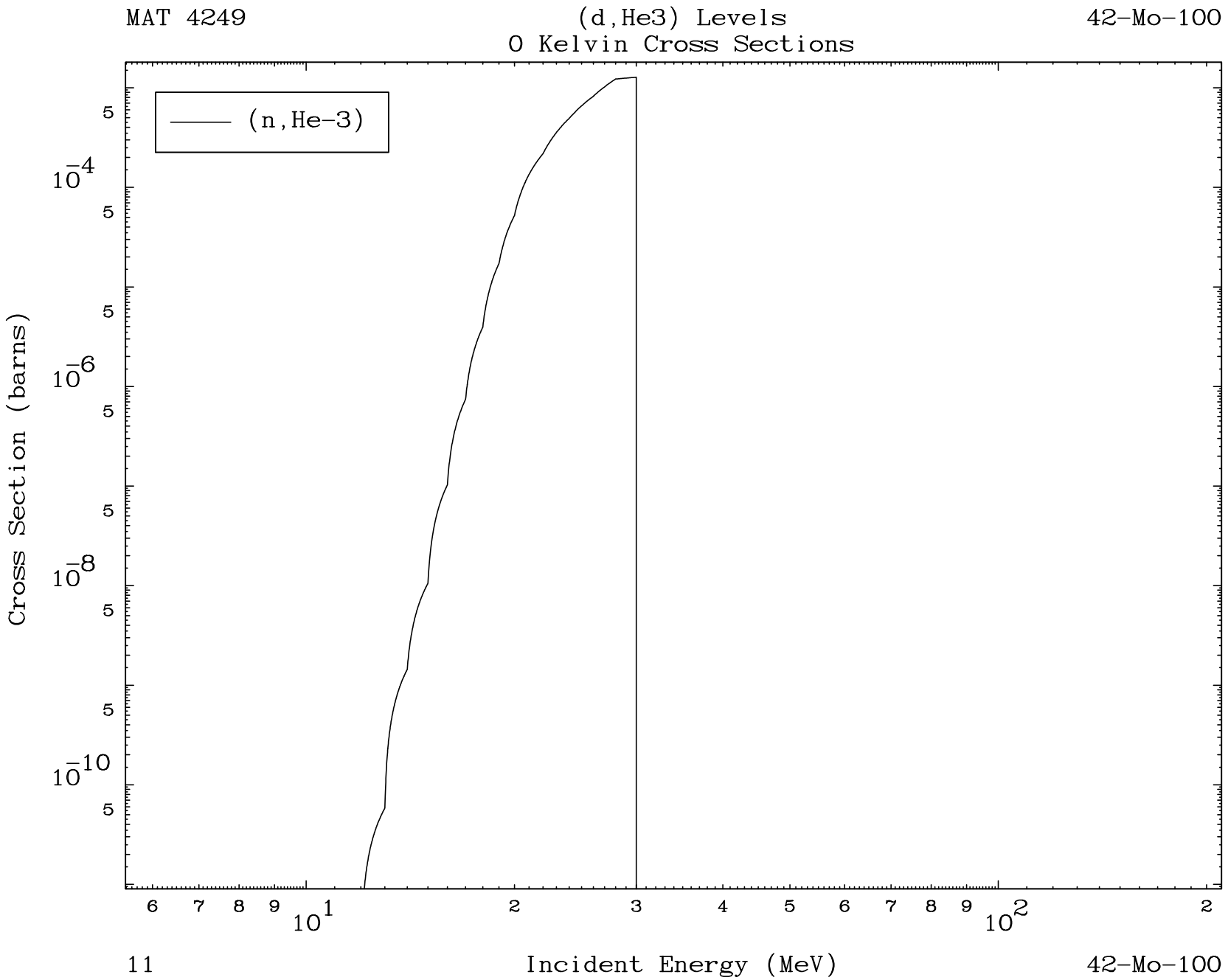

MAT 4249
Deuteron Charged Particle
0 Kelvin Cross Sections
42-Mo-100
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
6
42-Mo-100

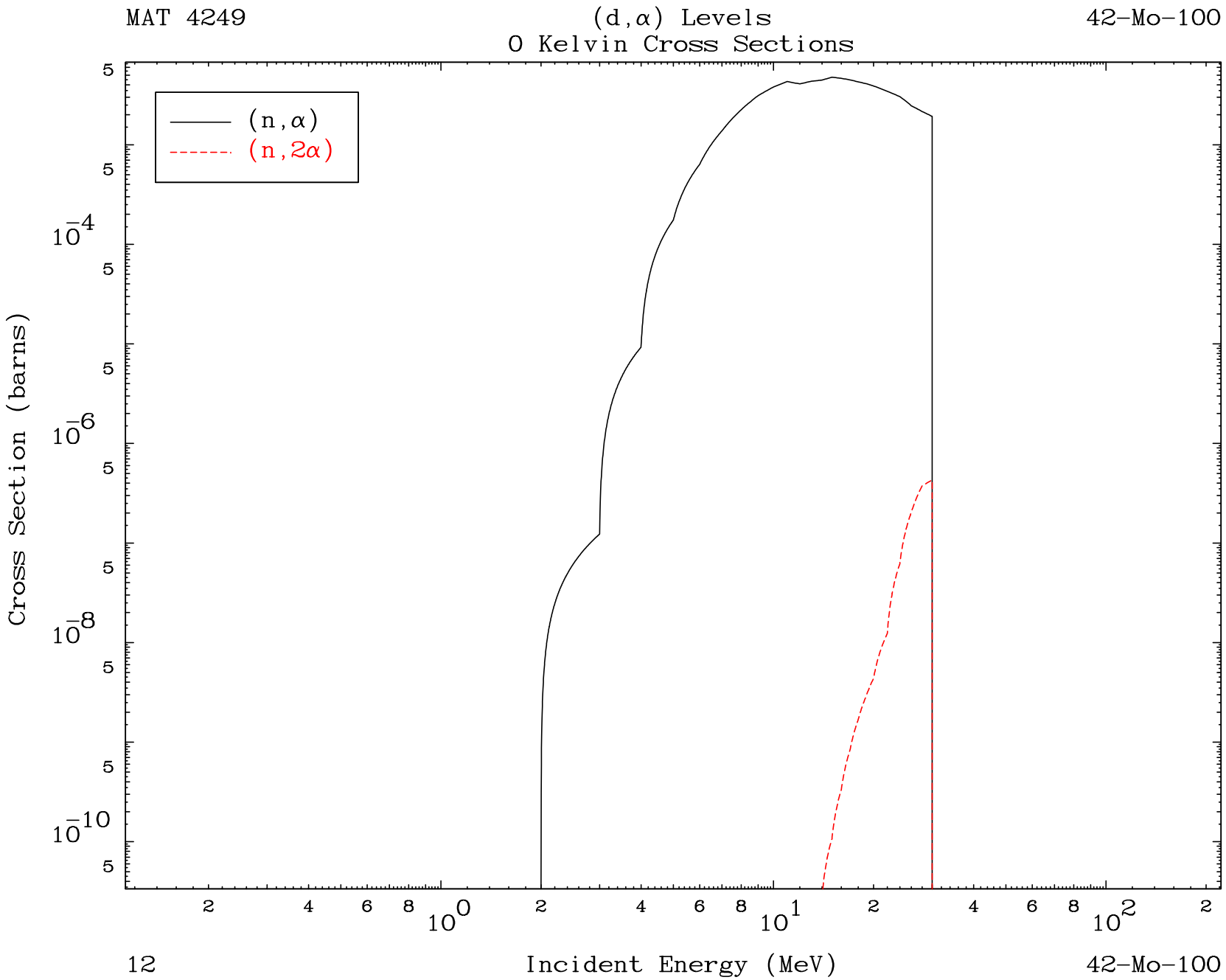

MAT 4249
Deuteron Charged Particle
0 Kelvin Cross Sections
42-Mo-100
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
7
42-Mo-100

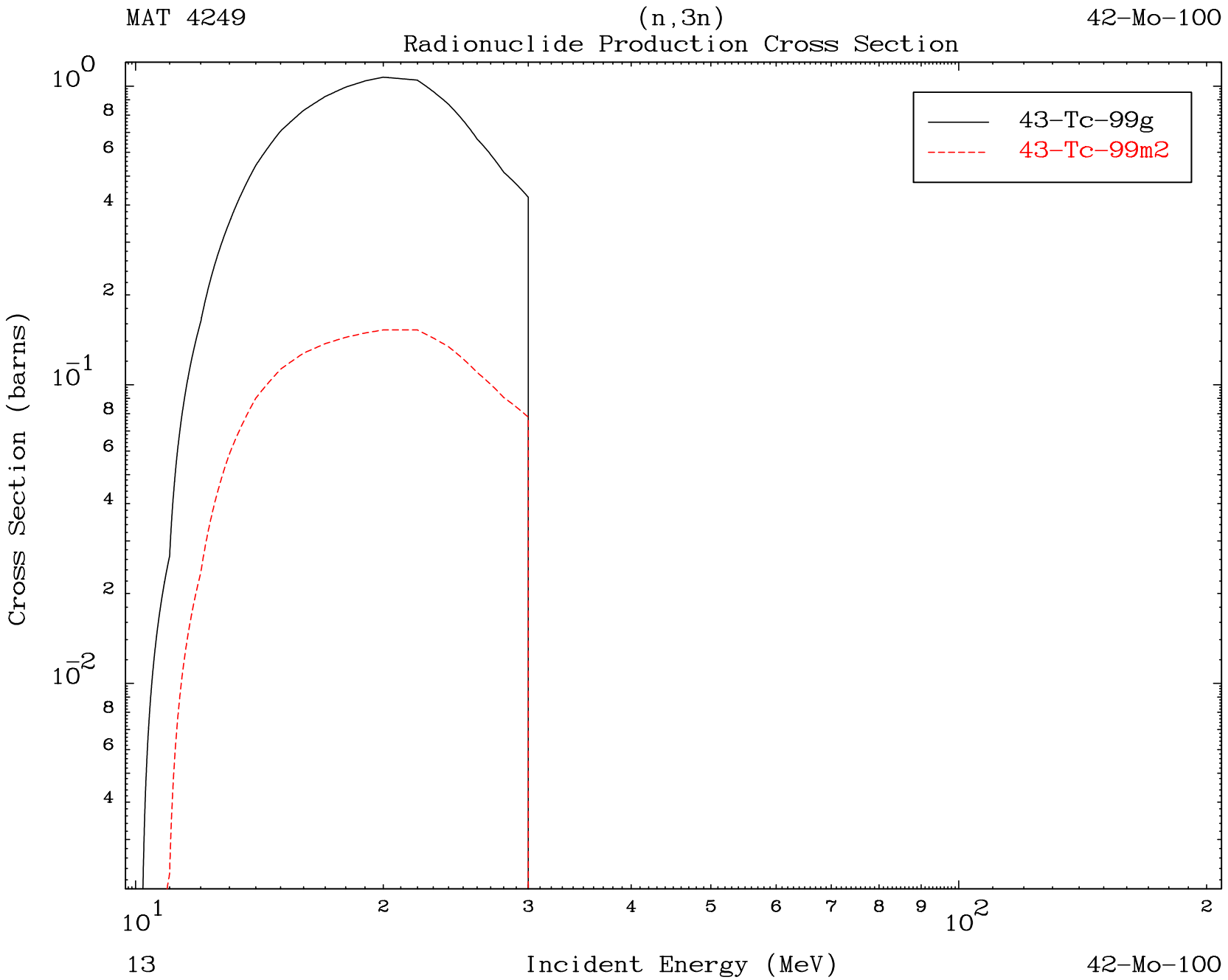

MAT 4249
(d,p) Levels
42-Mo-100
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
8
42-Mo-100

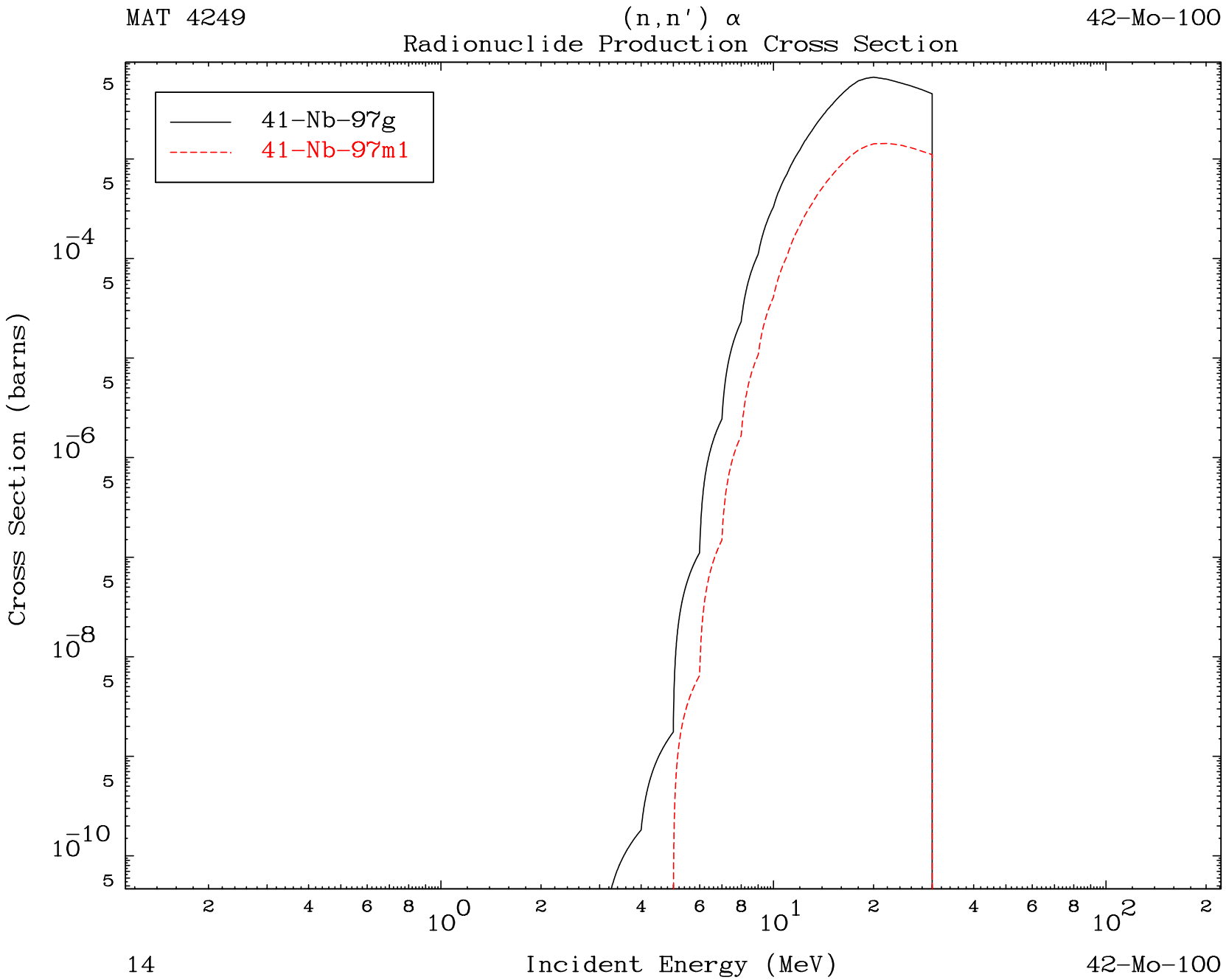

MAT 4249
(d,d) Levels
42-Mo-100
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
42-Mo-100
9

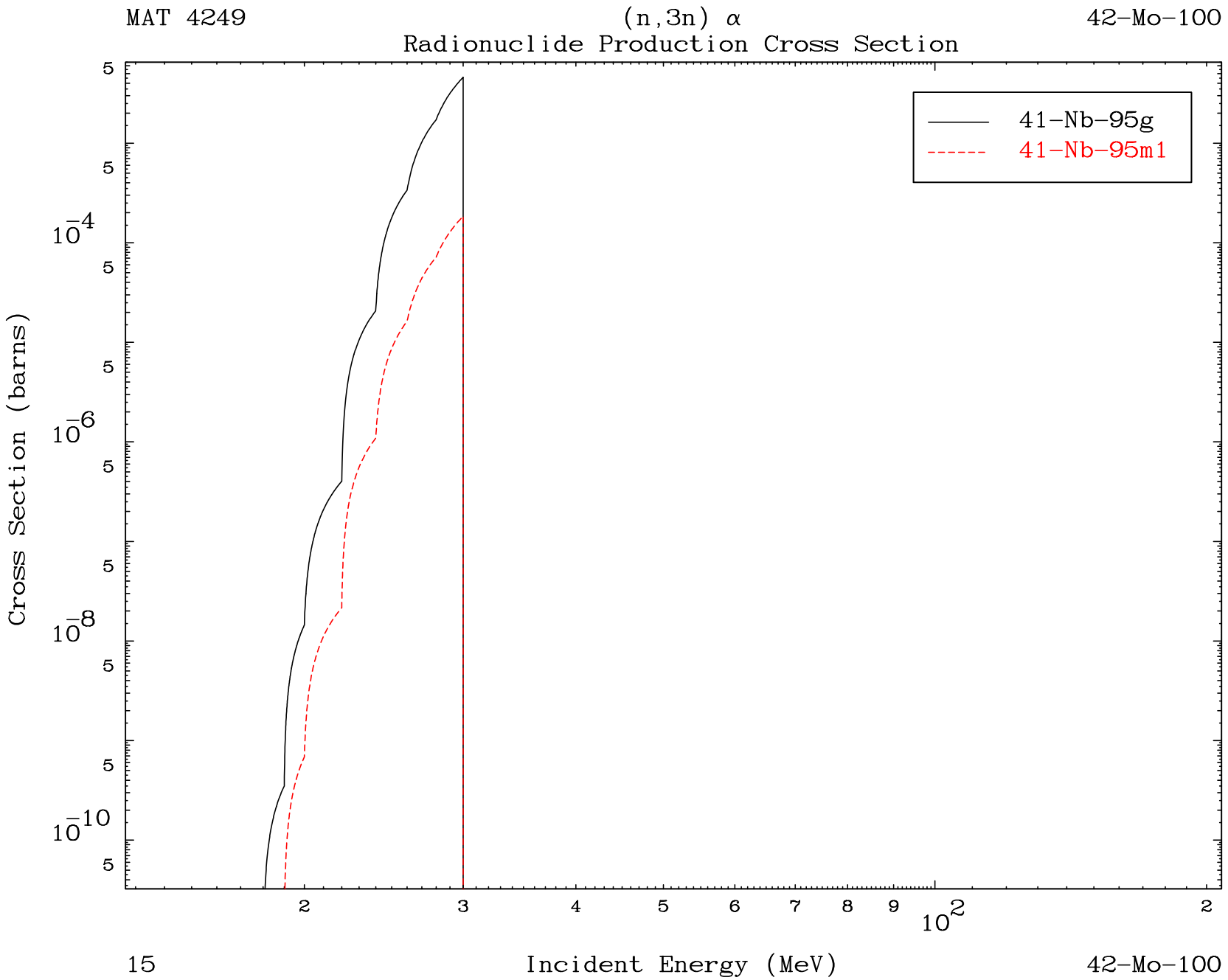

MAT 4249
(d,t) Levels
42-Mo-100
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
42-Mo-100

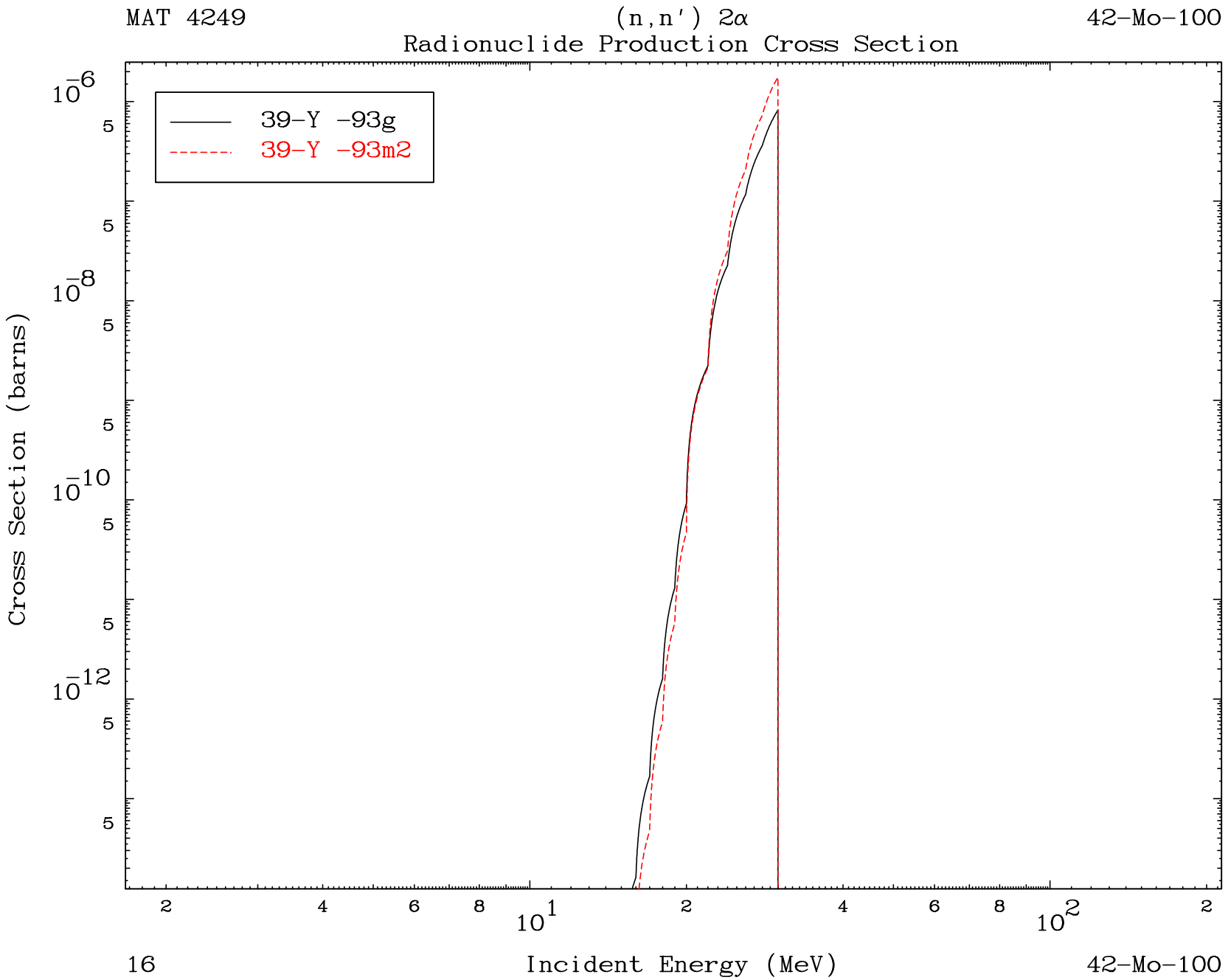

MAT 4249
(d,He3) Levels
42-Mo-100
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
11
42-Mo-100

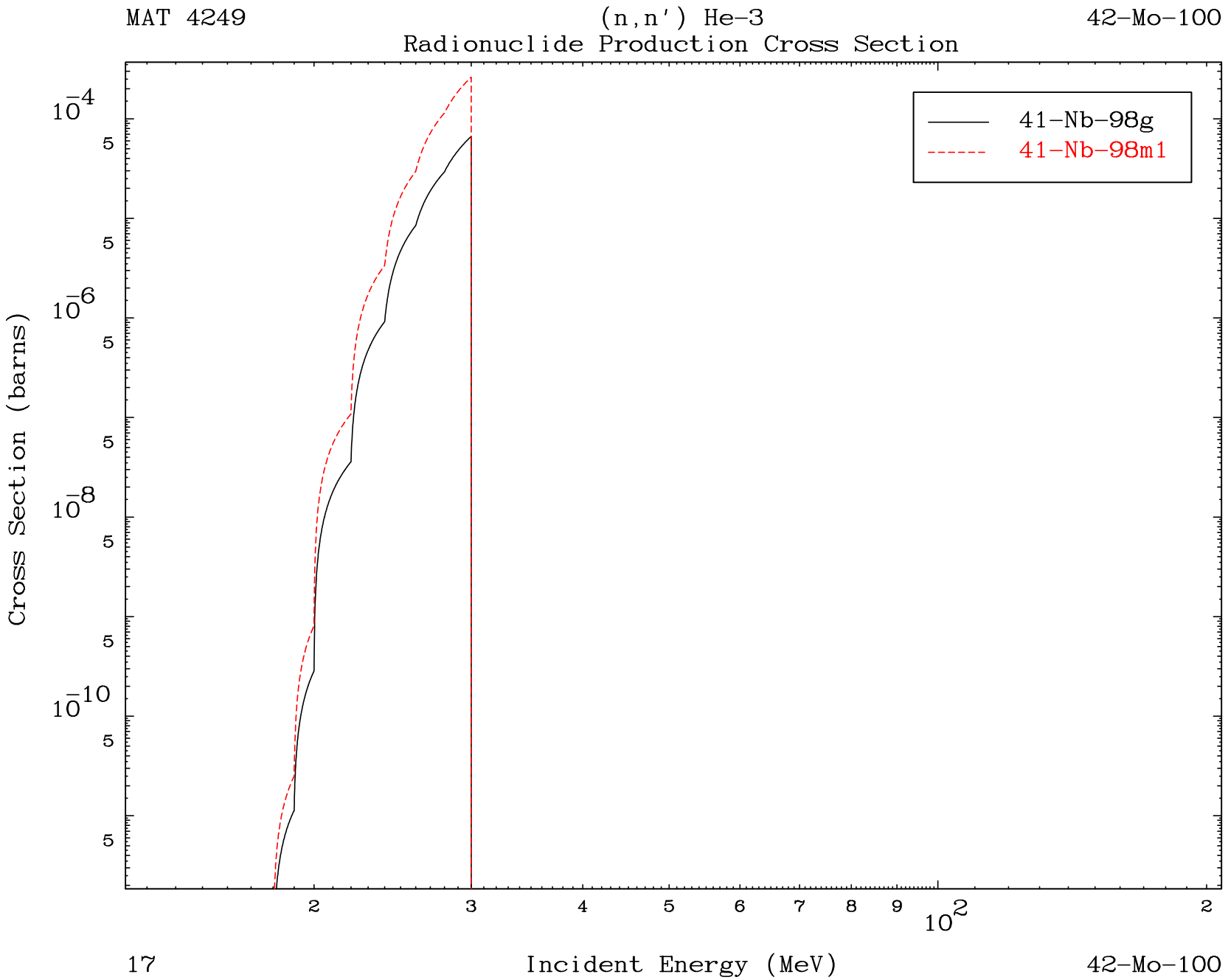

MAT 4249
(d,α) Levels
42-Mo-100
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
12
42-Mo-100

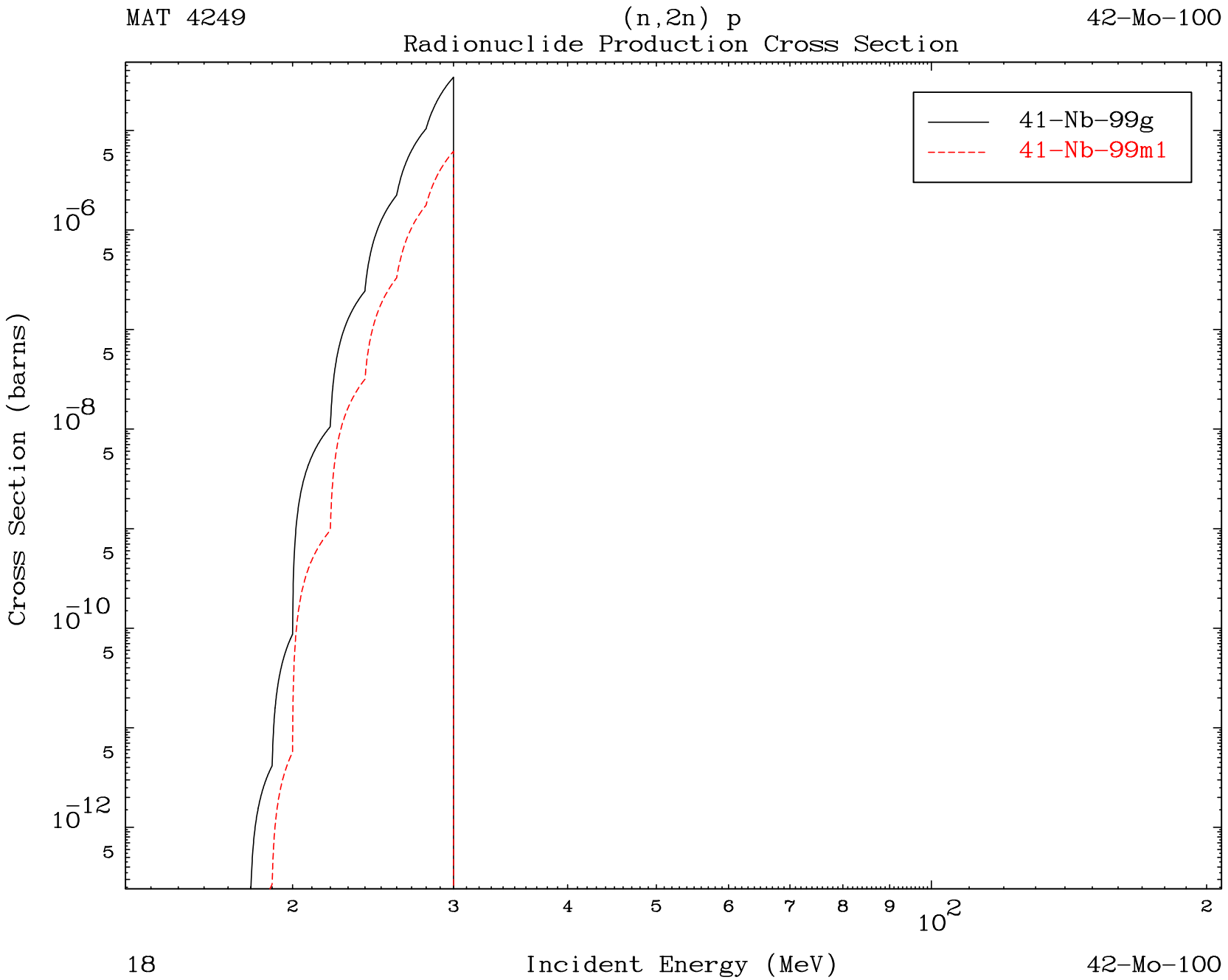

MAT 4249
(n,3n)
42-Mo-100
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
Incident Energy (MeV)
13
42-Mo-100

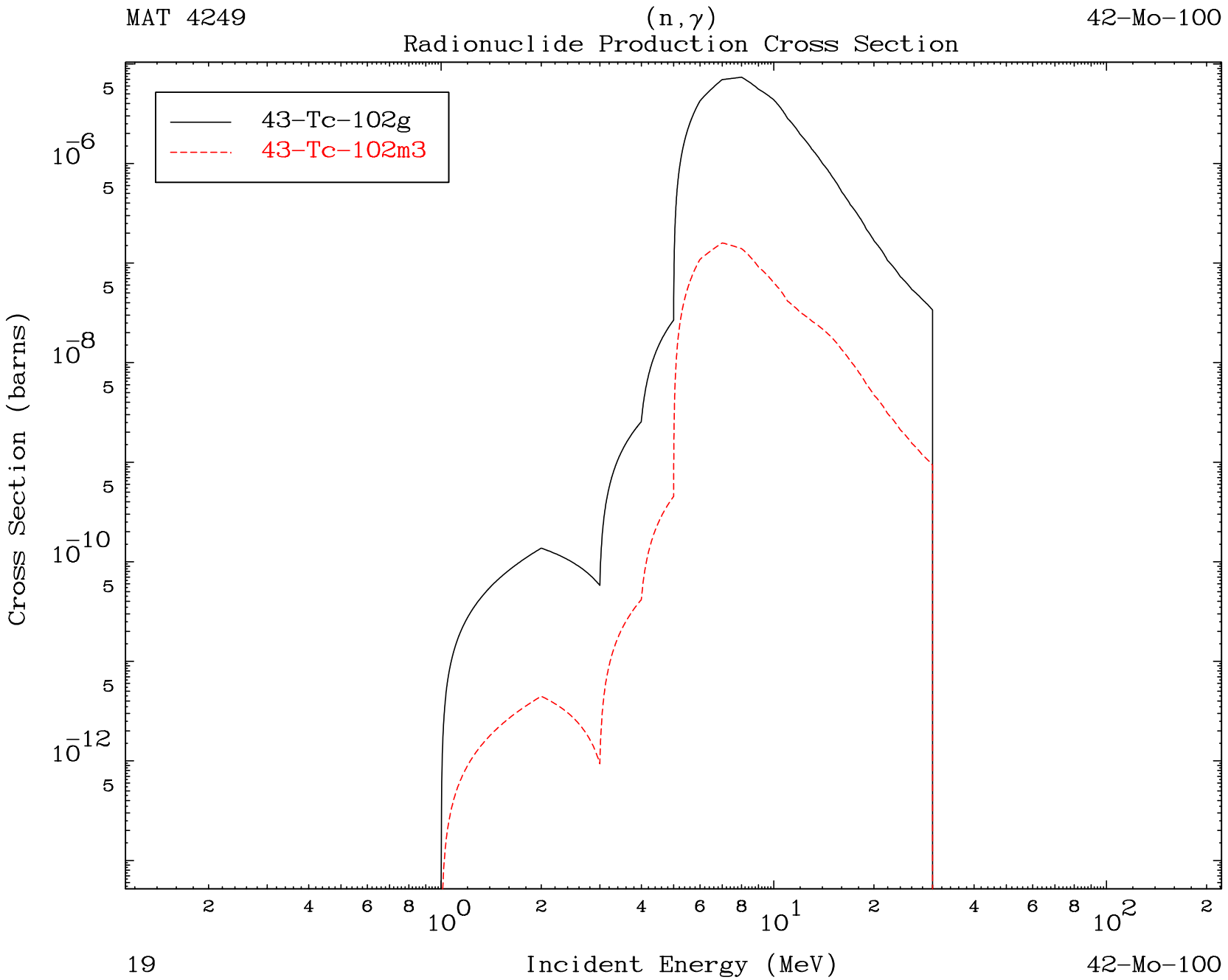

MAT 4249
(n,n') α
42-Mo-100
Radionuclide Production Cross Section
41-Nb-97g
41-Nb-97m1
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
14
42-Mo-100

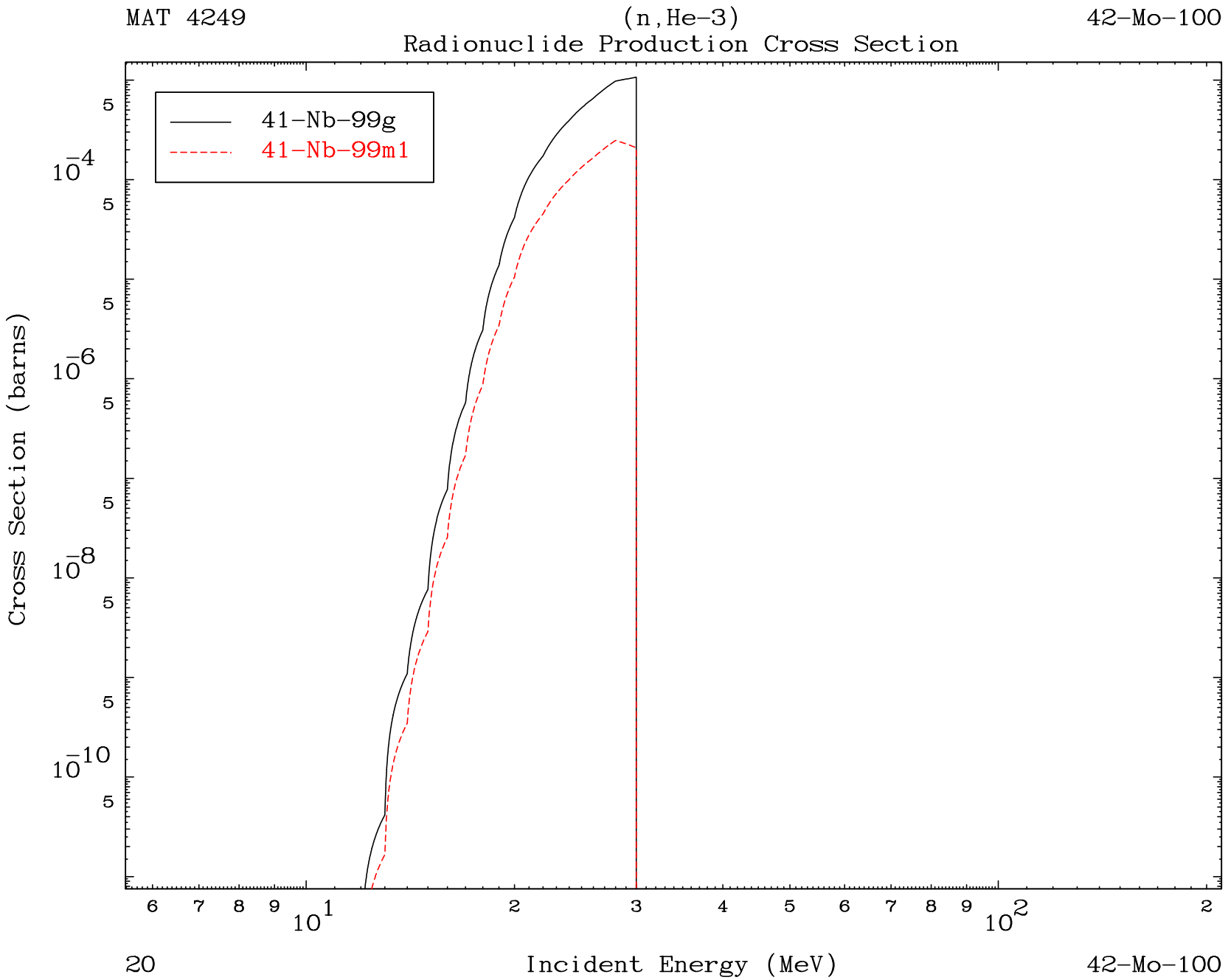

MAT 4249
(n,3n) α
42-Mo-100
Radionuclide Production Cross Section
41-Nb-95g
41-Nb-95m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
42-Mo-100

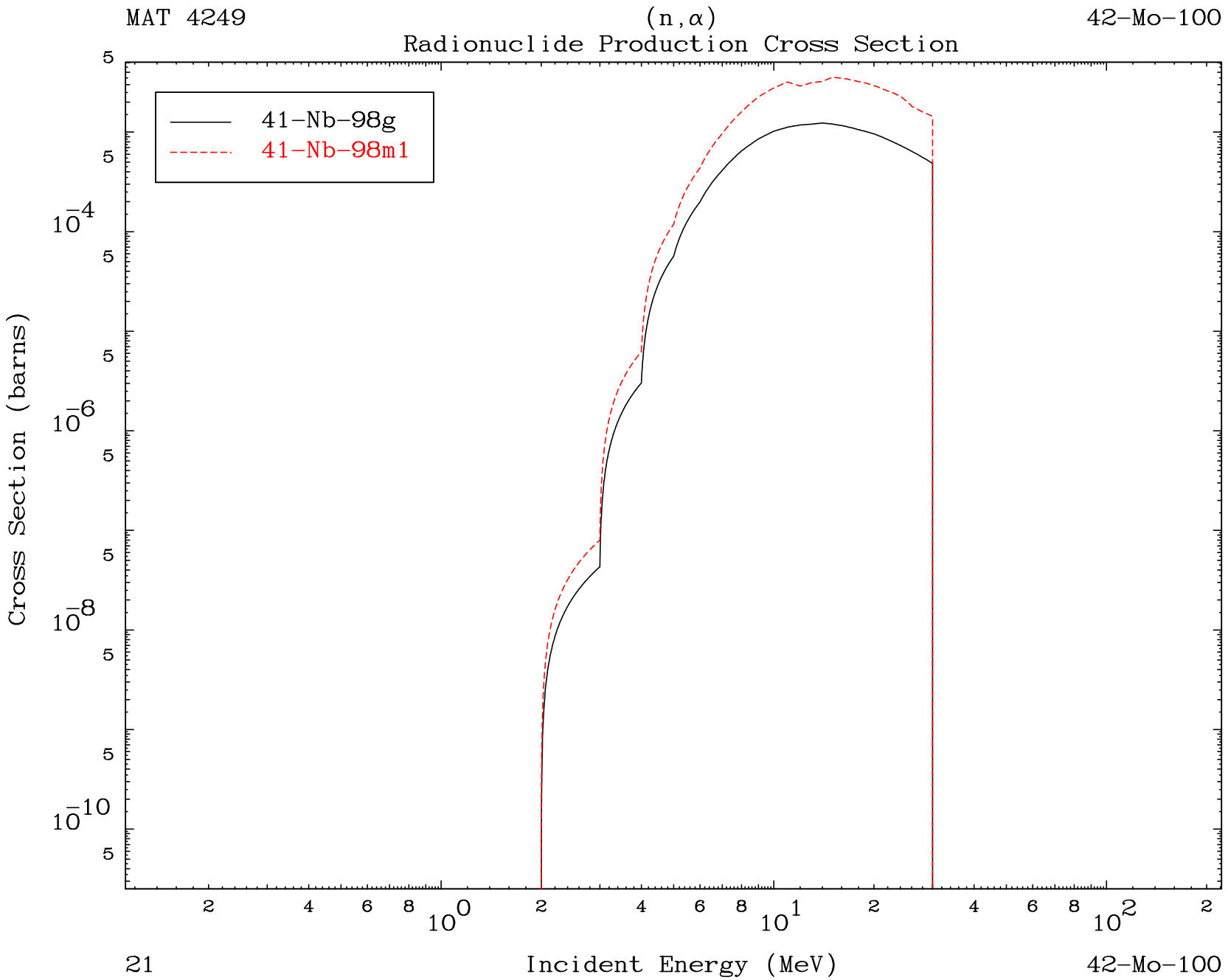

MAT 4249
(n,n') 2α
42-Mo-100
Radionuclide Production Cross Section
39-Y -93g
39-Y -93m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
4
6
8
10^1
10^2
16
Incident Energy (MeV)
42-Mo-100

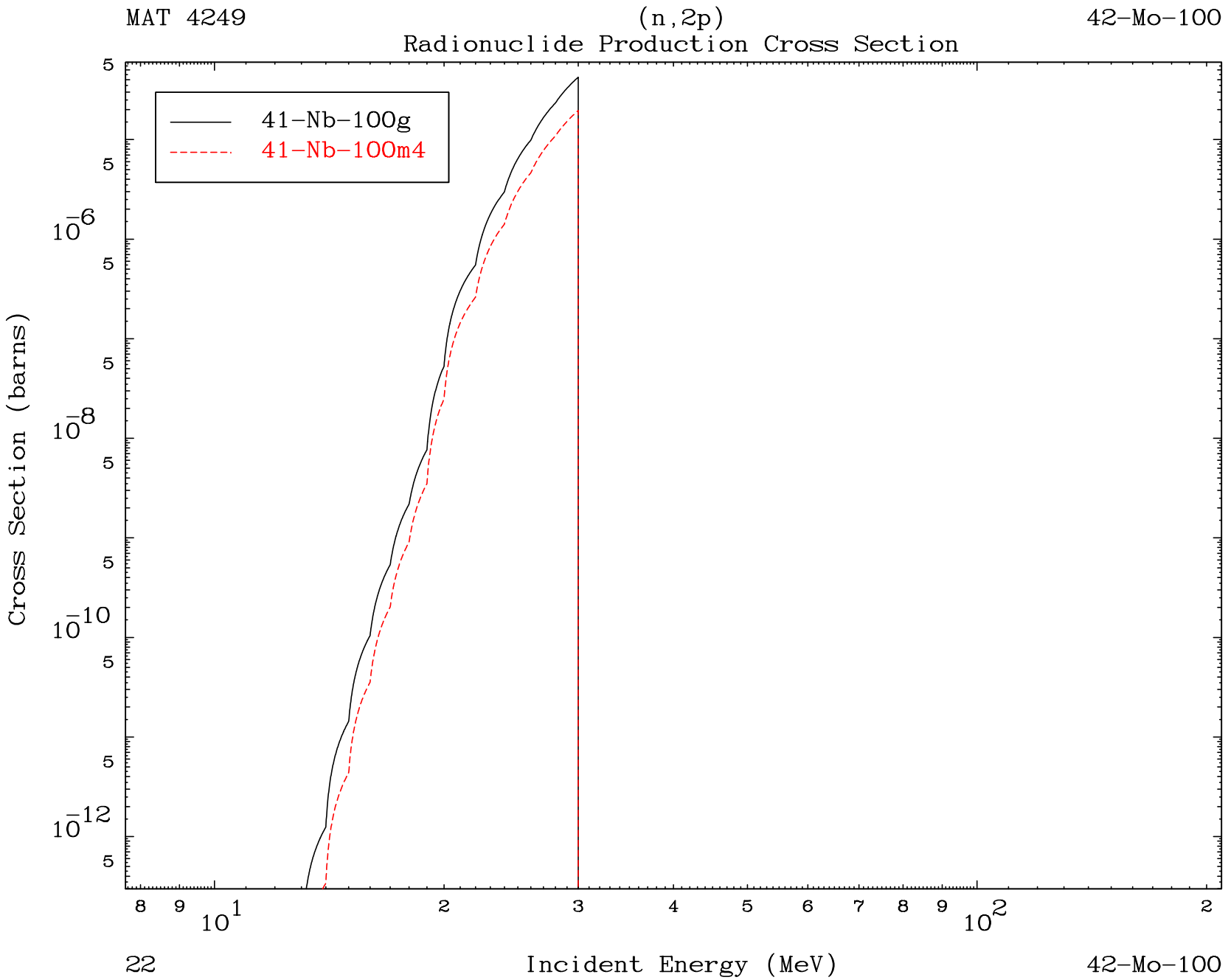

MAT 4249
(n,n') He-3
42-Mo-100
Radionuclide Production Cross Section
41-Nb-98g
41-Nb-98m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
42-Mo-100

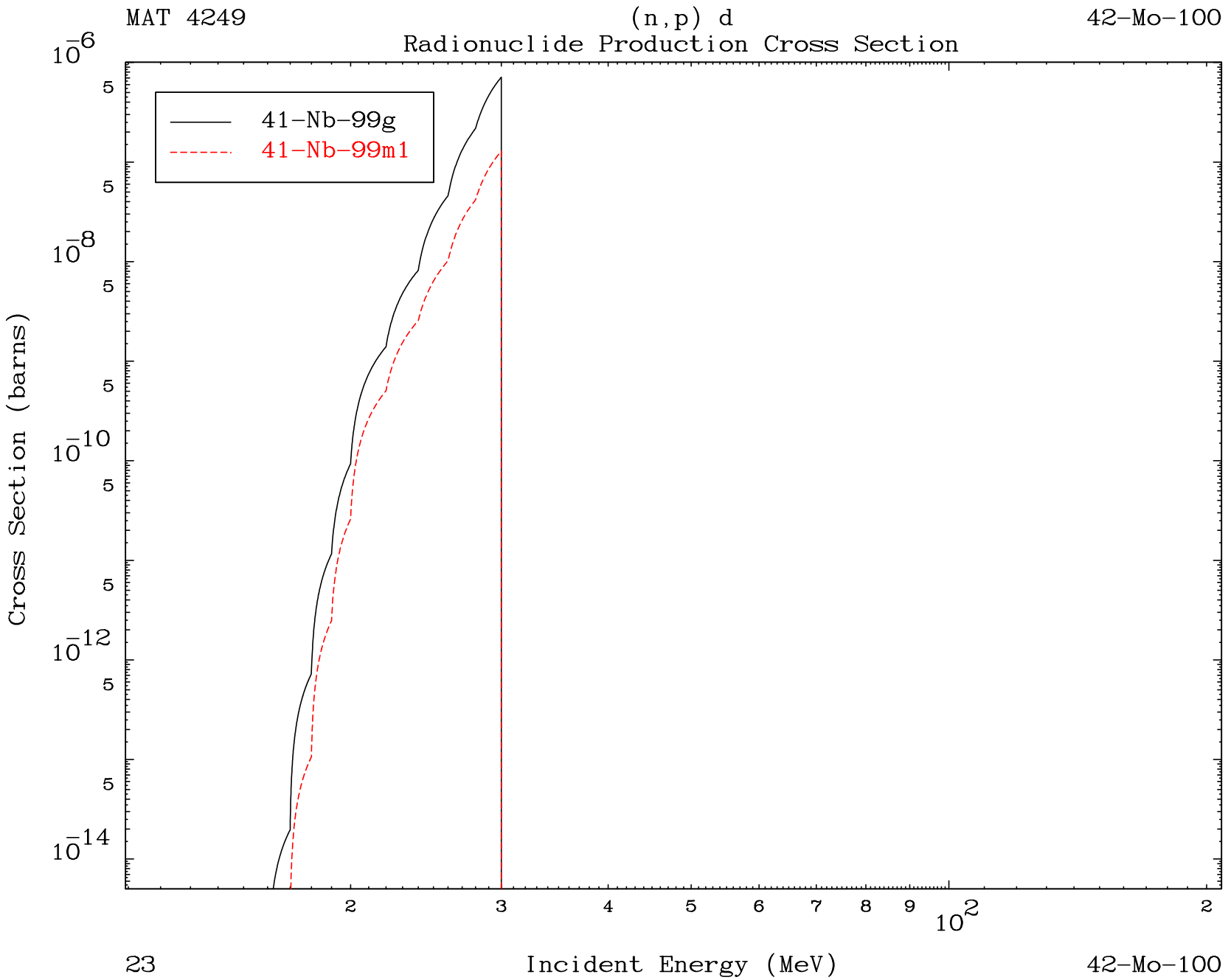

MAT 4249
(n,2n) p
42-Mo-100
Radionuclide Production Cross Section
41-Nb-99g
41-Nb-99m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
42-Mo-100

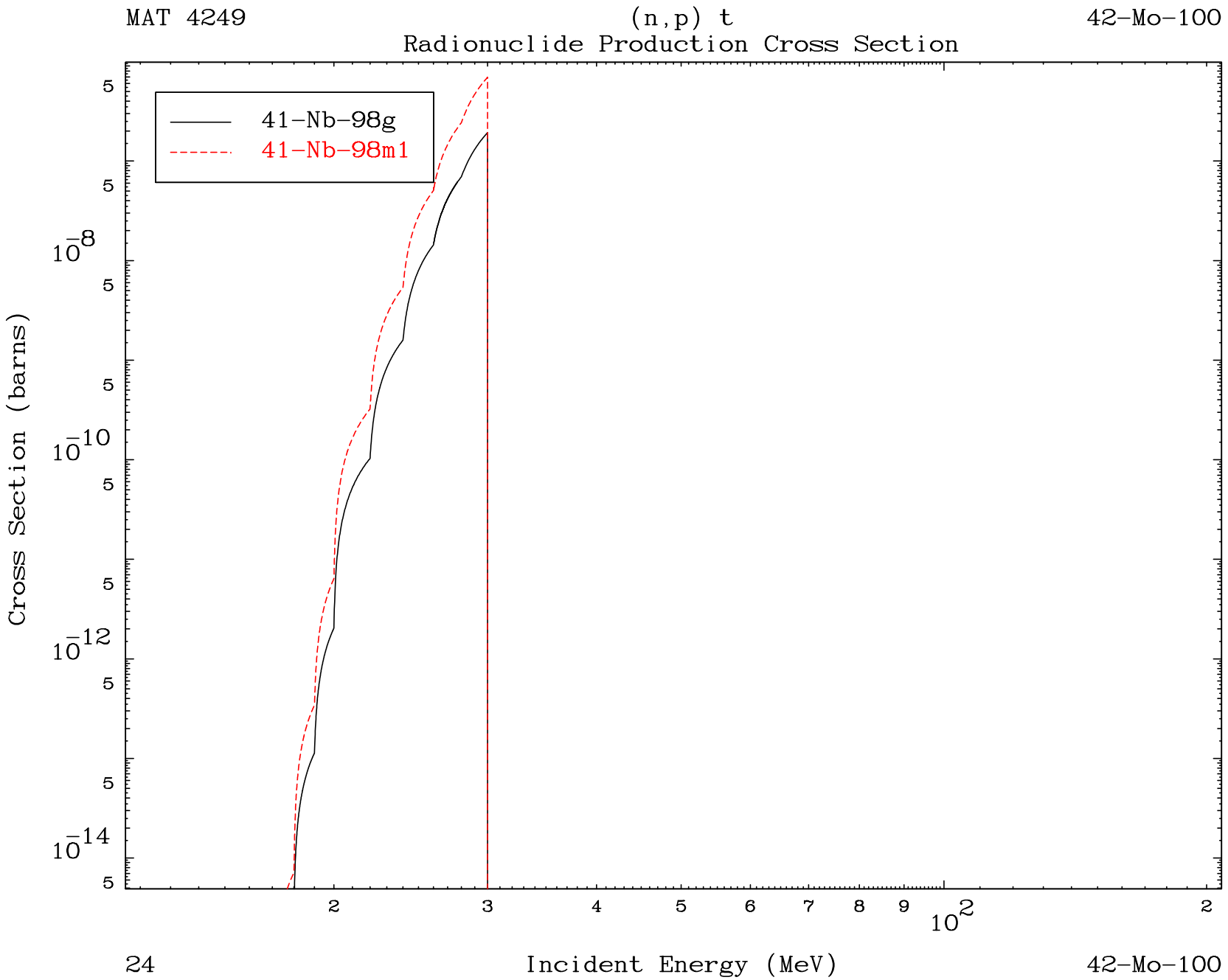

MAT 4249
(n,γ)
42-Mo-100
Radionuclide Production Cross Section
43-Tc-102g
43-Tc-102m3
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
19
42-Mo-100


MAT 4249
(n,He-3)
42-Mo-100
Radionuclide Production Cross Section
41-Nb-99g
41-Nb-99m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
20
42-Mo-100


MAT 4249
(n,α)
42-Mo-100
Radionuclide Production Cross Section
41-Nb-98g
41-Nb-98m1
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
21
42-Mo-100


MAT 4249
(n,2p)
42-Mo-100
Radionuclide Production Cross Section
41-Nb-100g
41-Nb-100m4
Cross Section (barns)
Incident Energy (MeV)
22
42-Mo-100


MAT 4249
(n,p) d
42-Mo-100
Radionuclide Production Cross Section
41-Nb-99g
41-Nb-99m1
Cross Section (barns)
Incident Energy (MeV)
23
42-Mo-100


MAT 4249
(n,p) t
42-Mo-100
Radionuclide Production Cross Section
41-Nb-98g
41-Nb-98m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
24
Incident Energy (MeV)
42-Mo-100