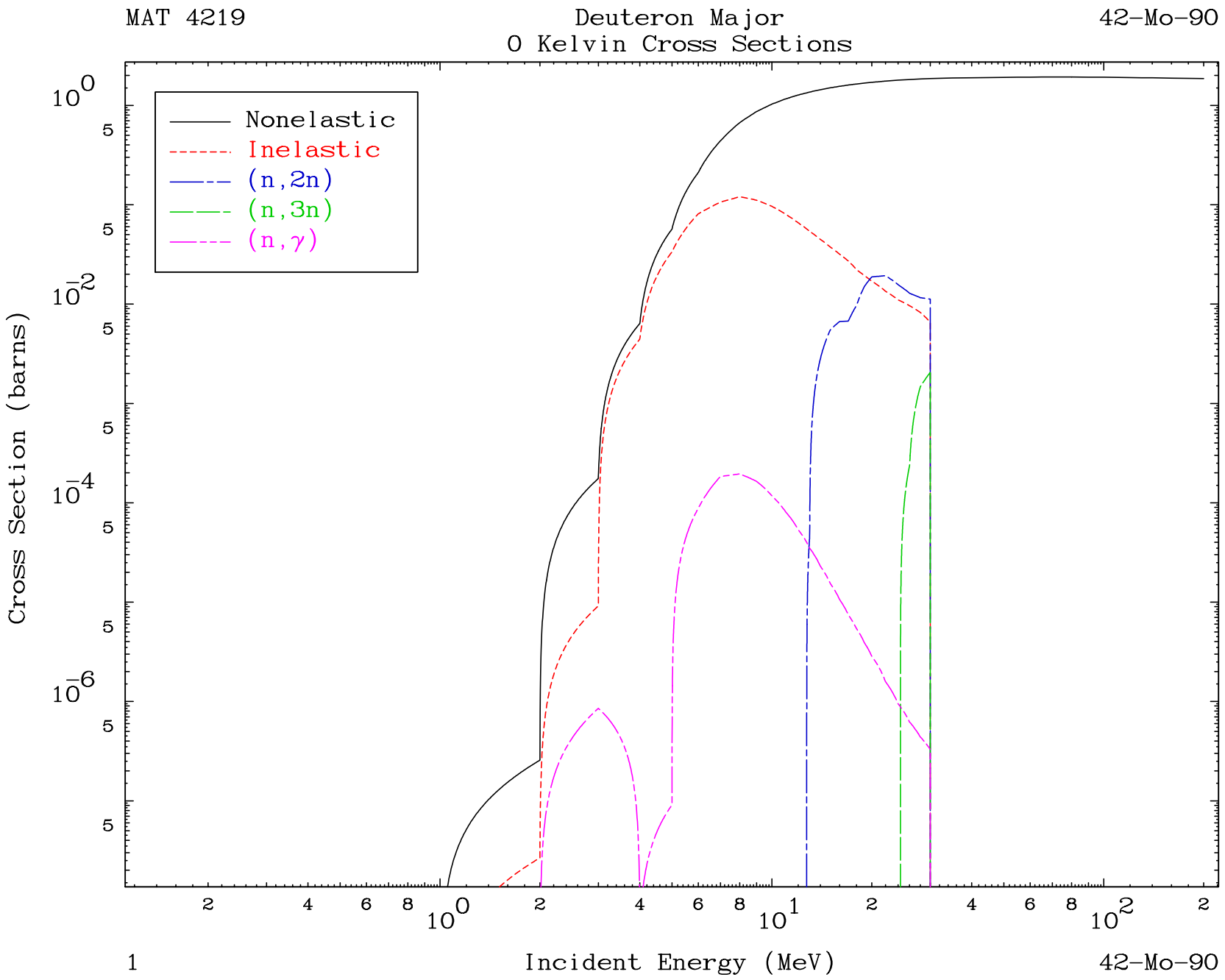
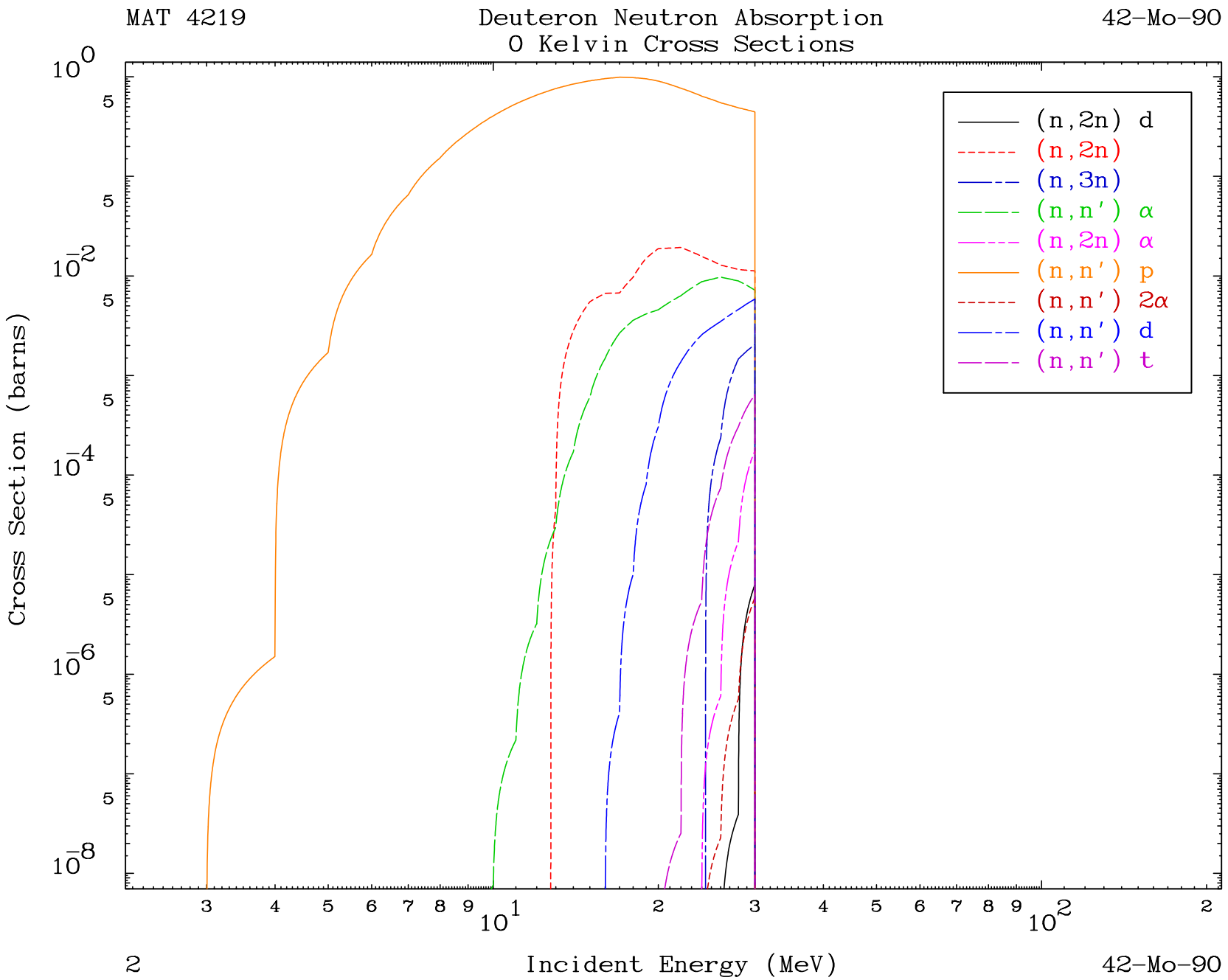
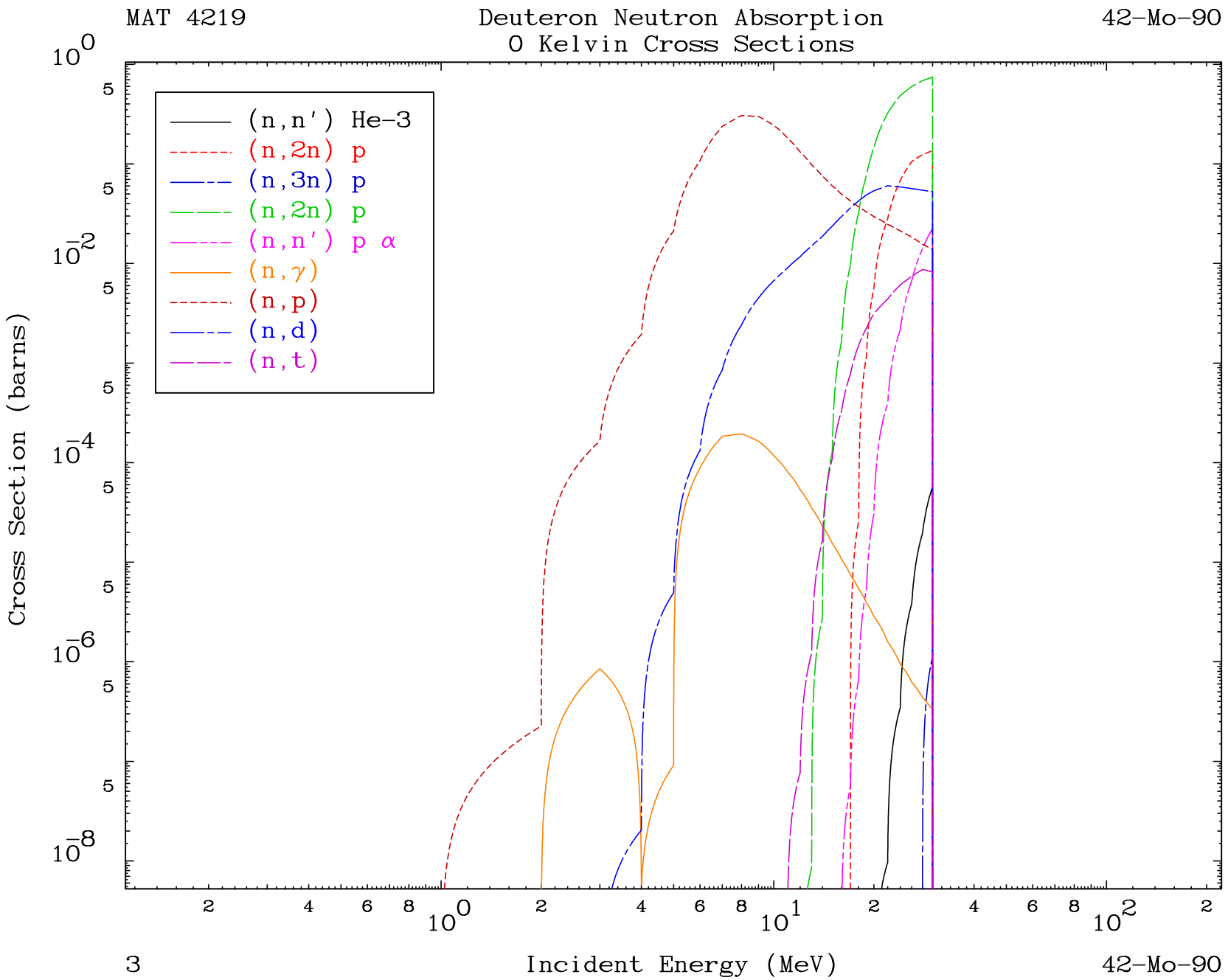
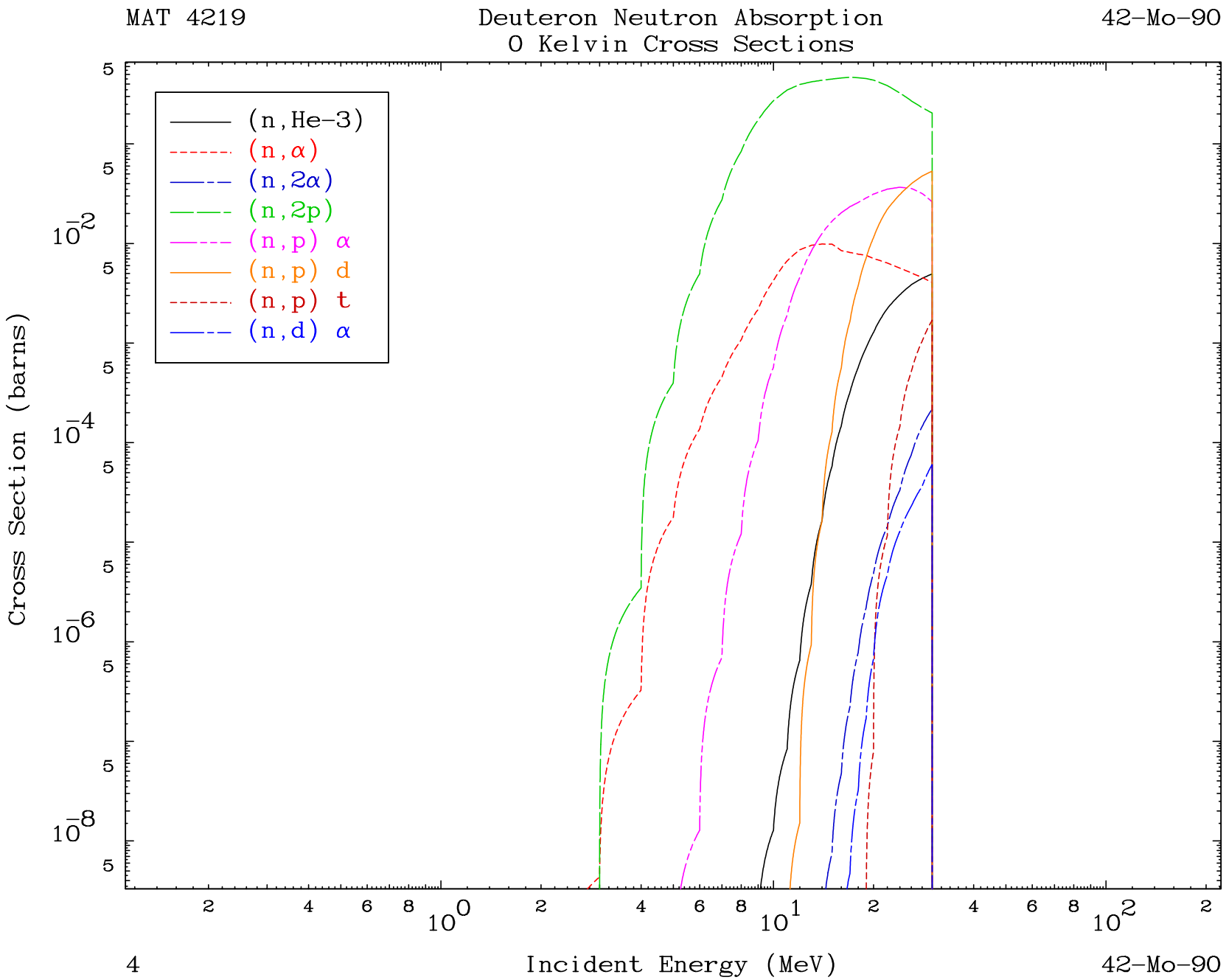
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

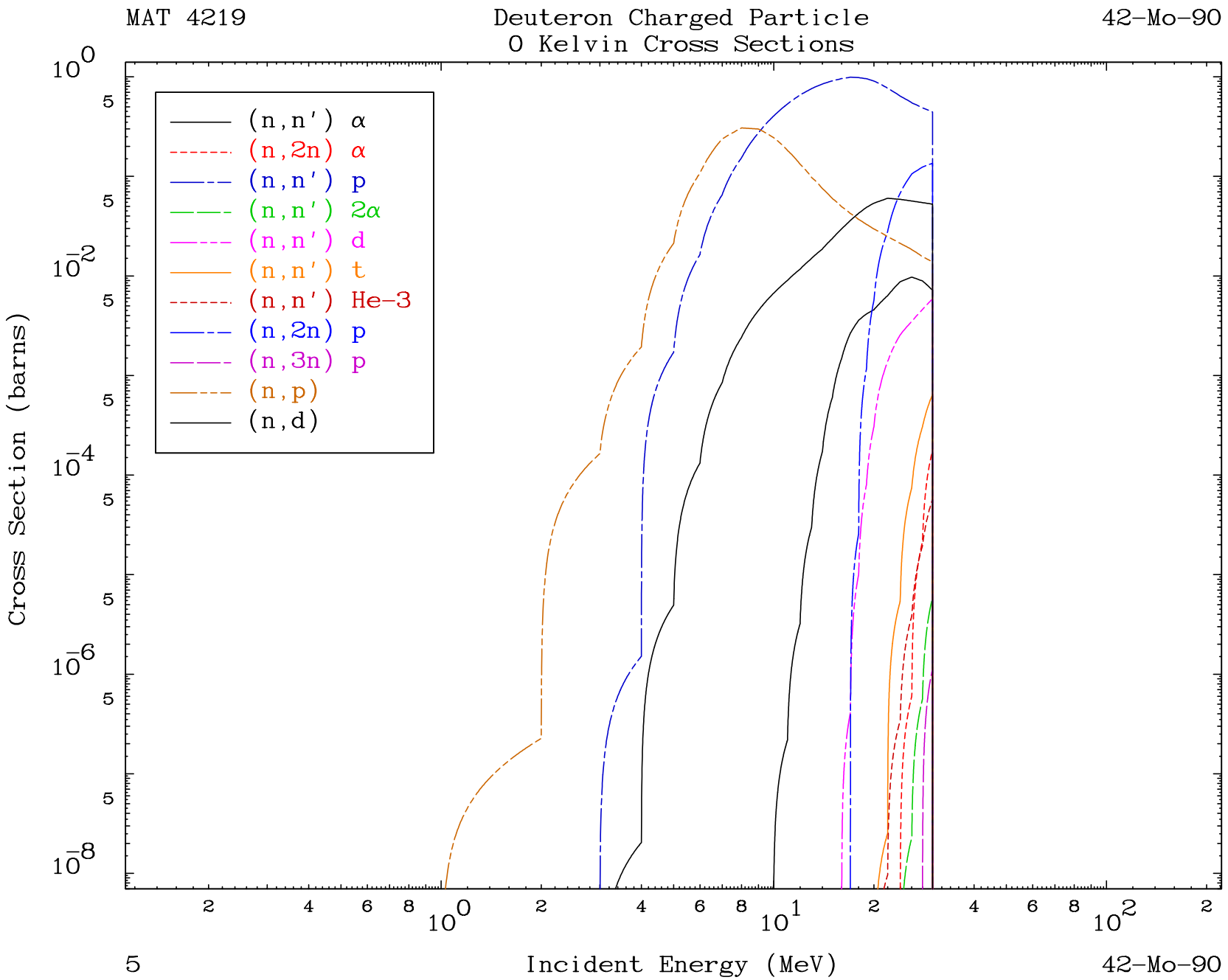
Press Mouse Button to Start

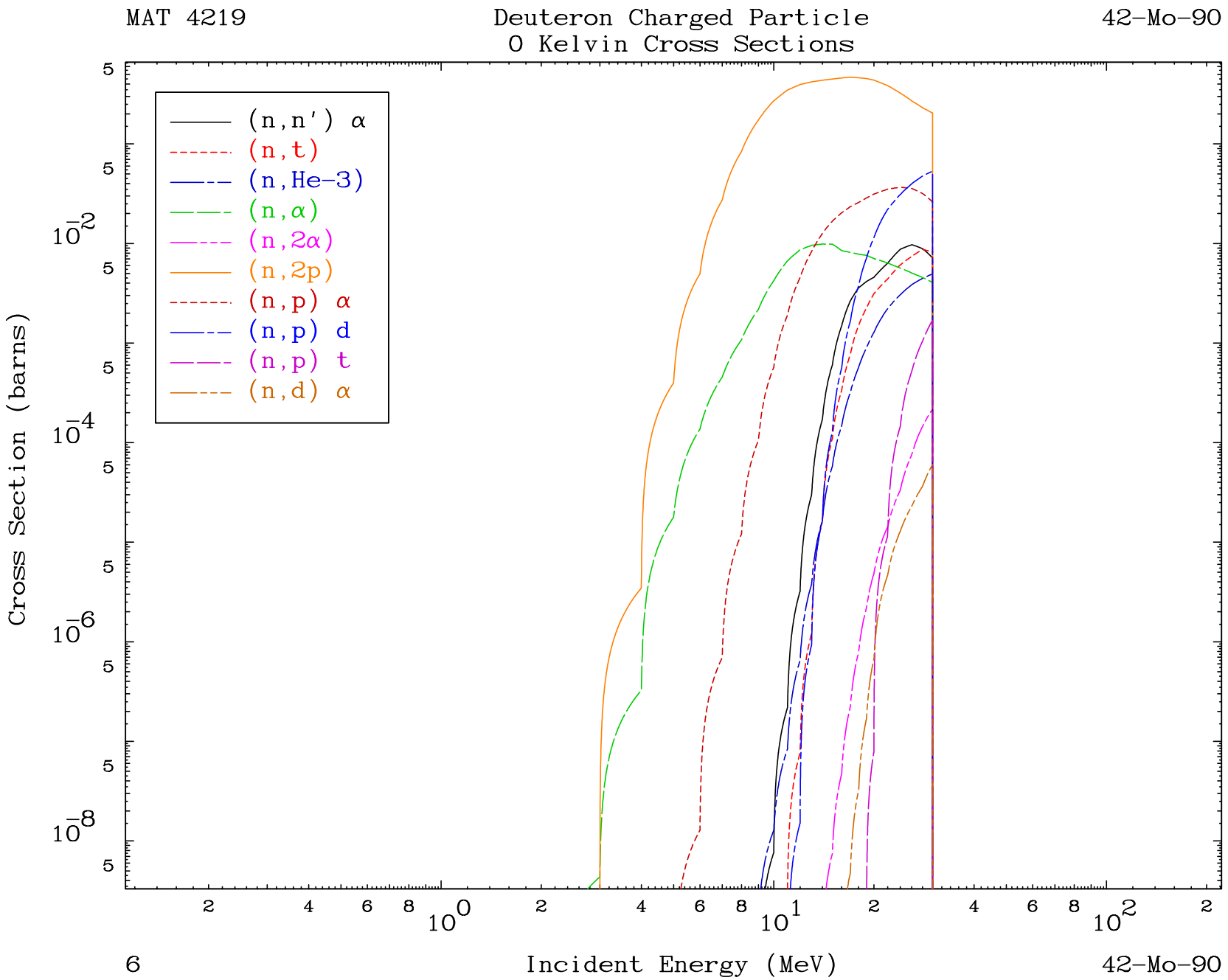

MAT 4219
Deuteron Major
42-Mo-90
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
42-Mo-90

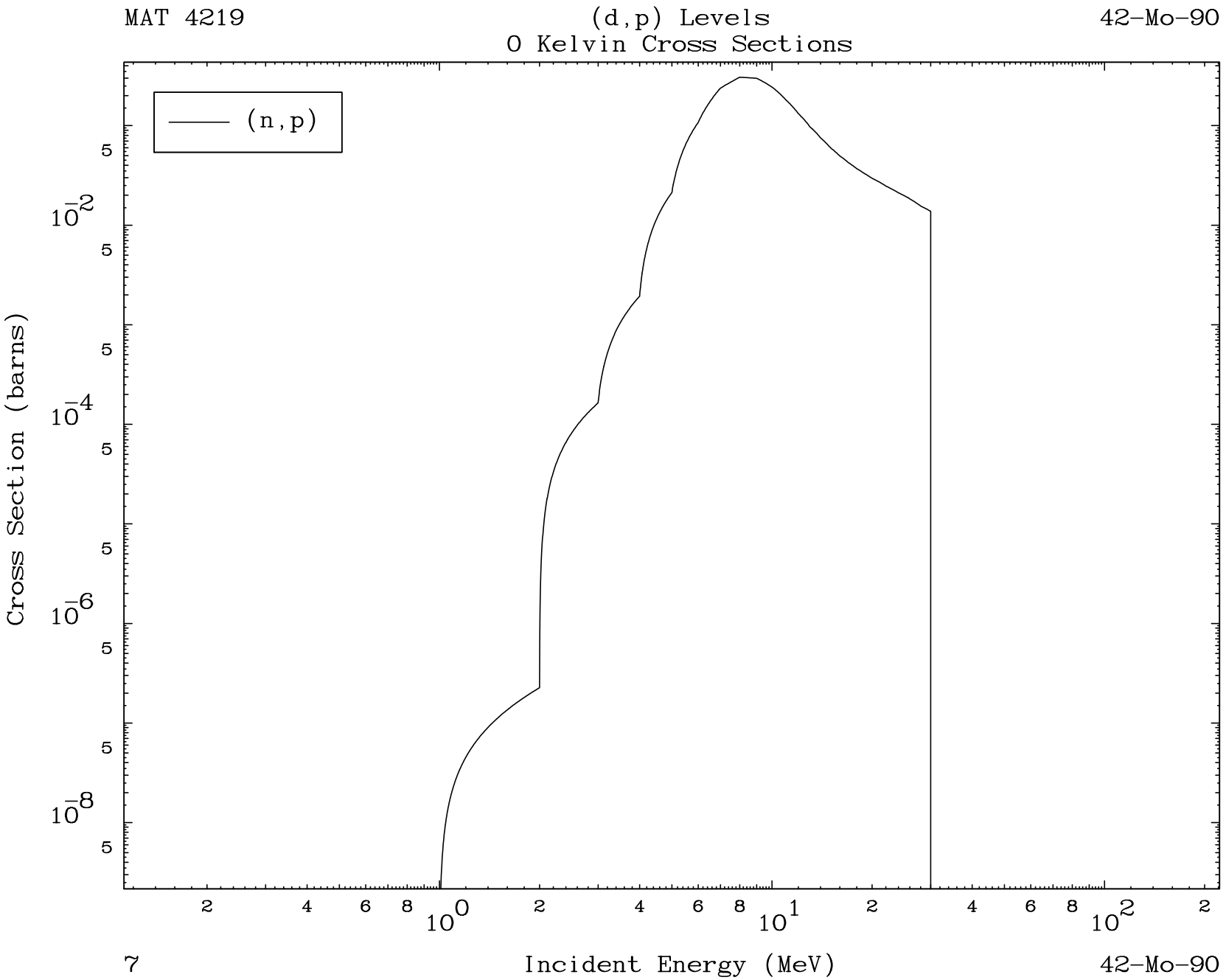

MAT 4219
Deuteron Neutron Absorption
0 Kelvin Cross Sections
42-Mo-90
Cross Section (barns)
Incident Energy (MeV)
42-Mo-90
2
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t

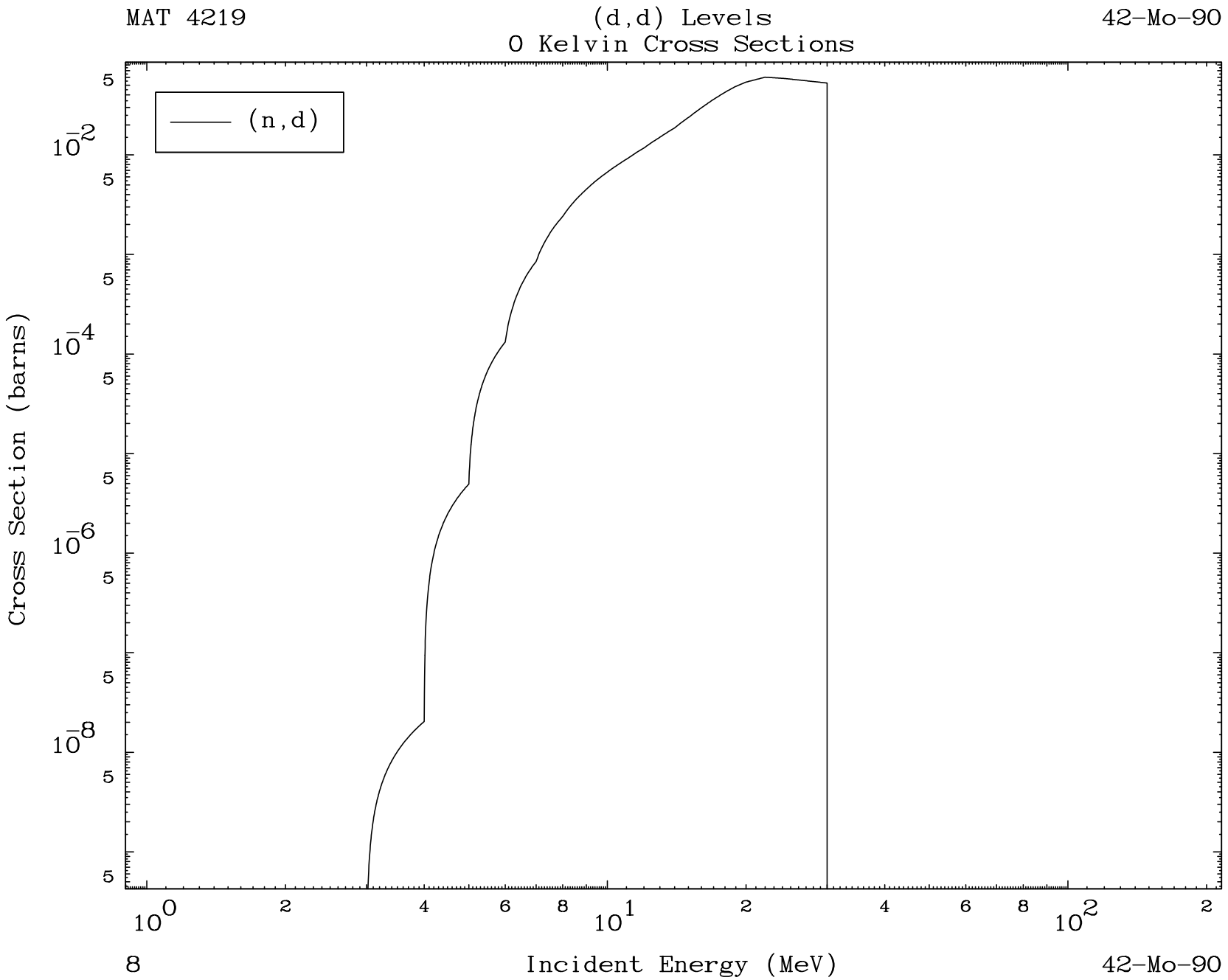

MAT 4219
Deuteron Neutron Absorption
0 Kelvin Cross Sections
42-Mo-90
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
42-Mo-90

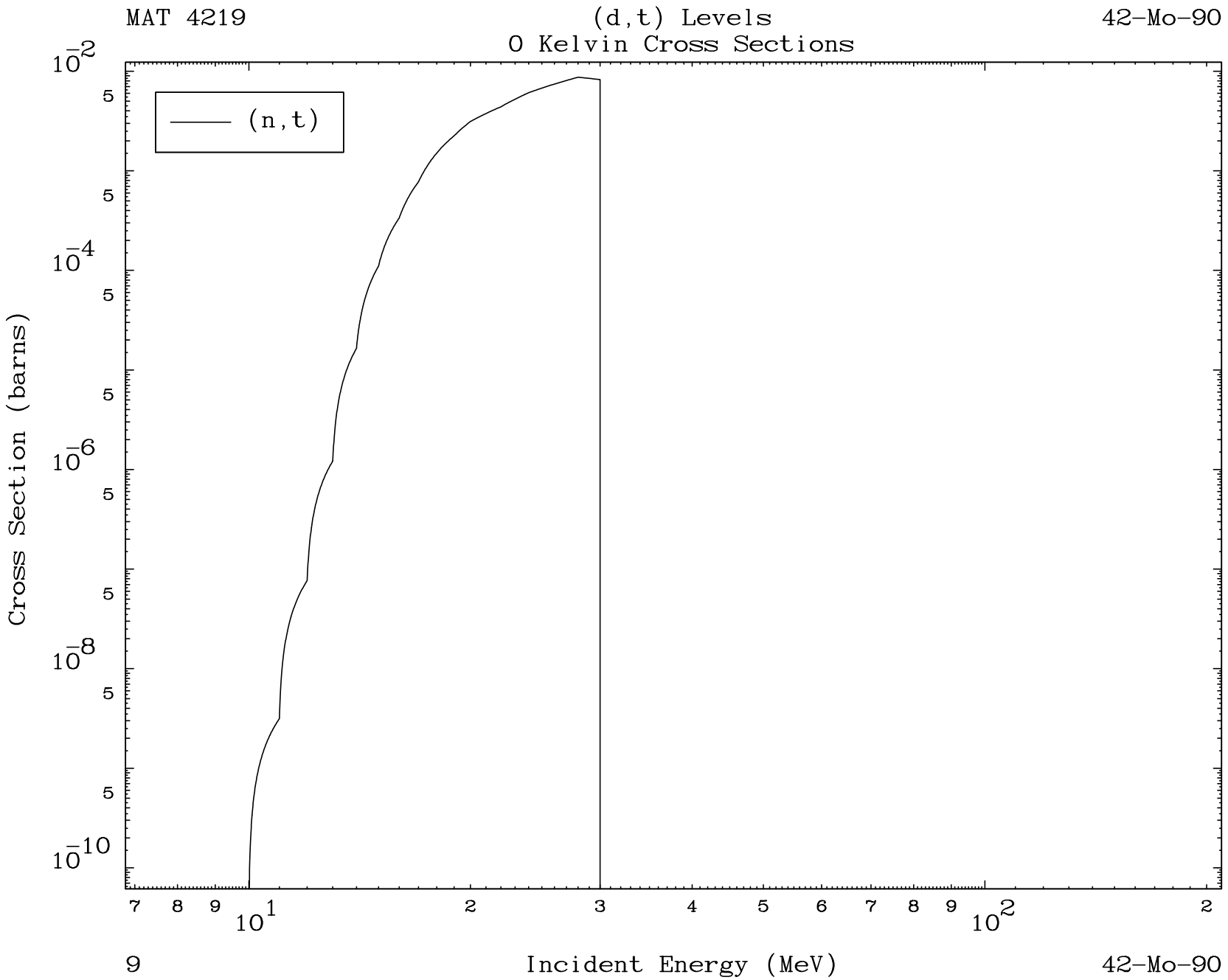

MAT 4219
Deuteron Neutron Absorption
0 Kelvin Cross Sections
42-Mo-90
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
42-Mo-90

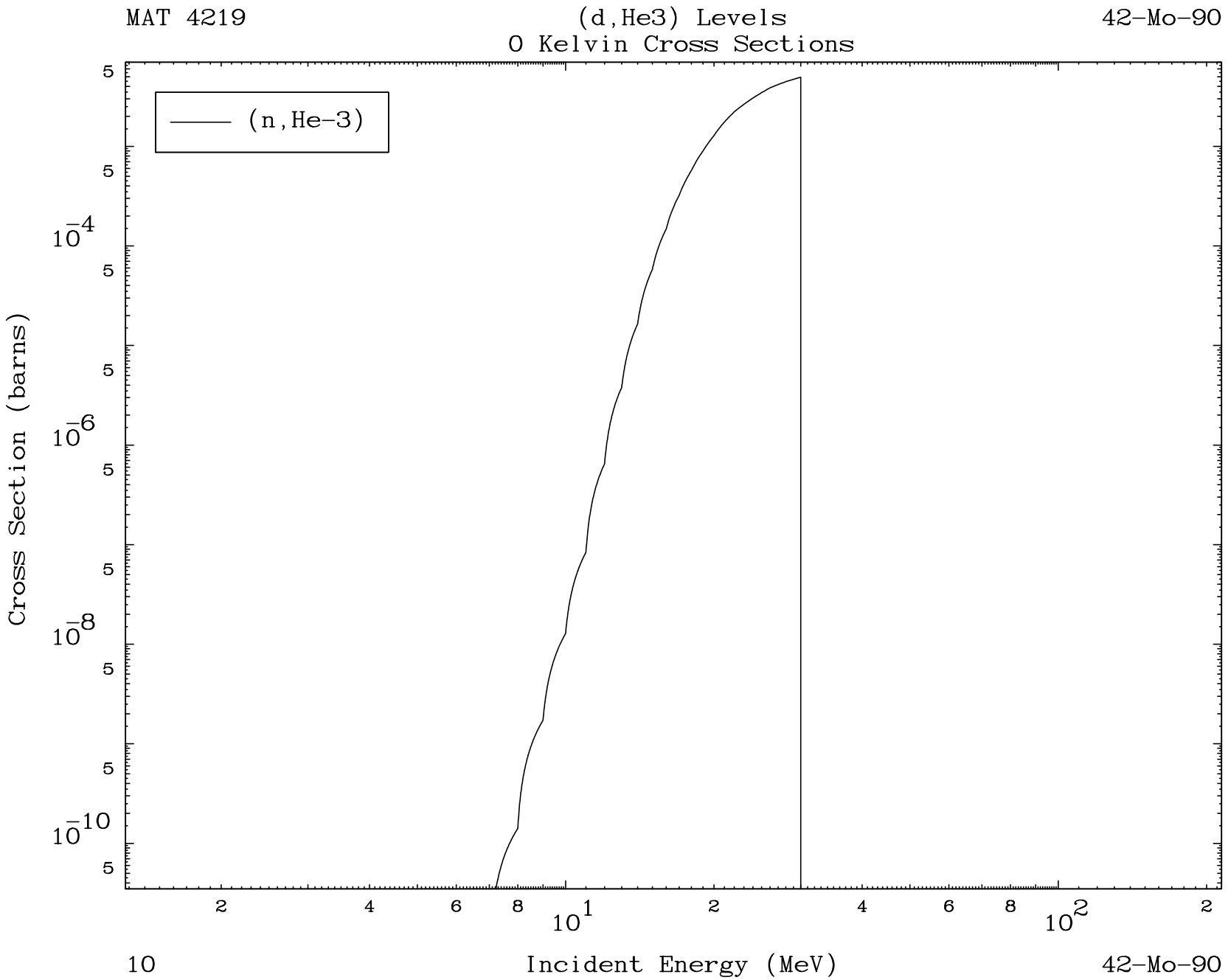

MAT 4219
Deuteron Charged Particle
0 Kelvin Cross Sections
42-Mo-90
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
42-Mo-90
5

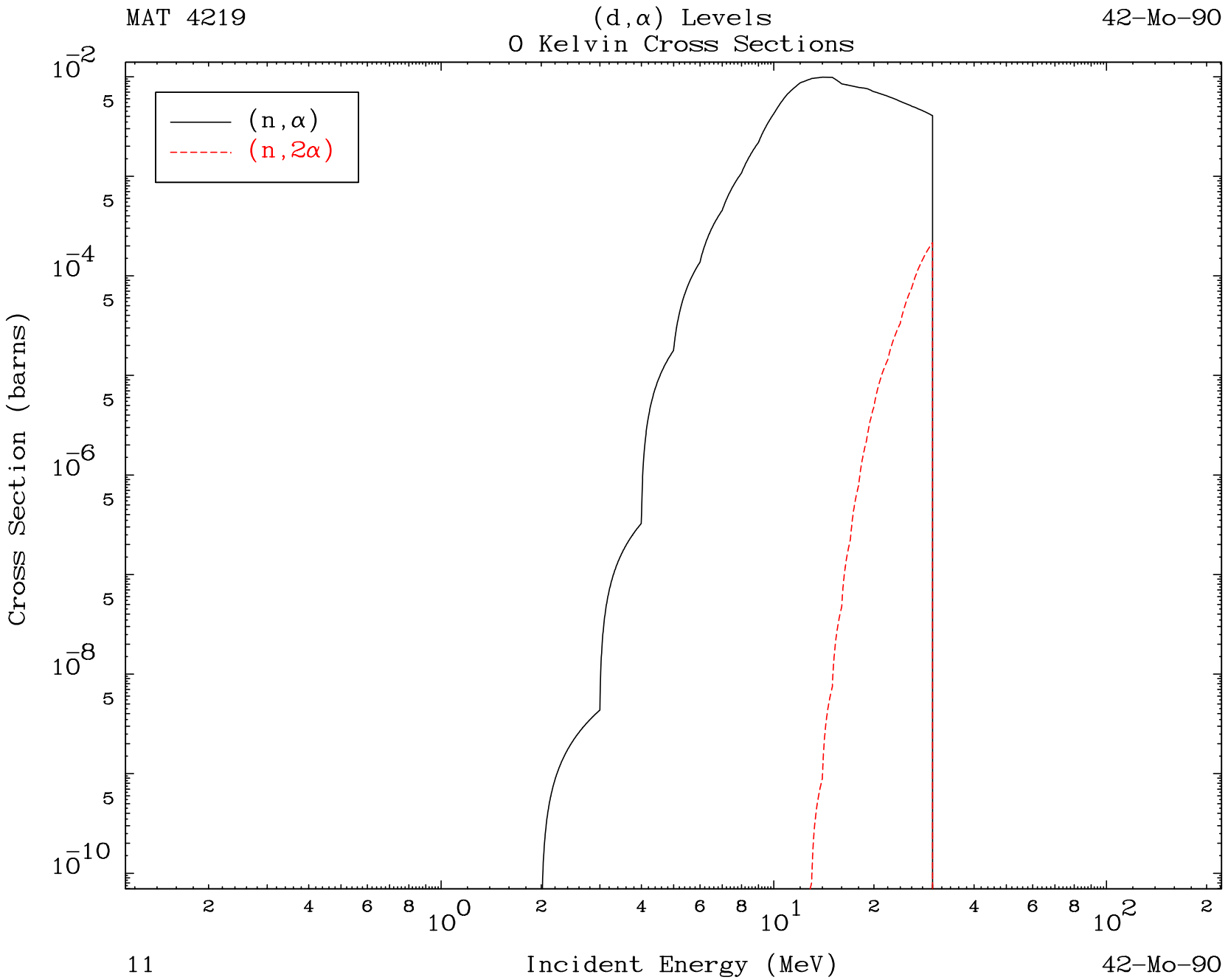

MAT 4219
Deuteron Charged Particle
0 Kelvin Cross Sections
42-Mo-90
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
42-Mo-90

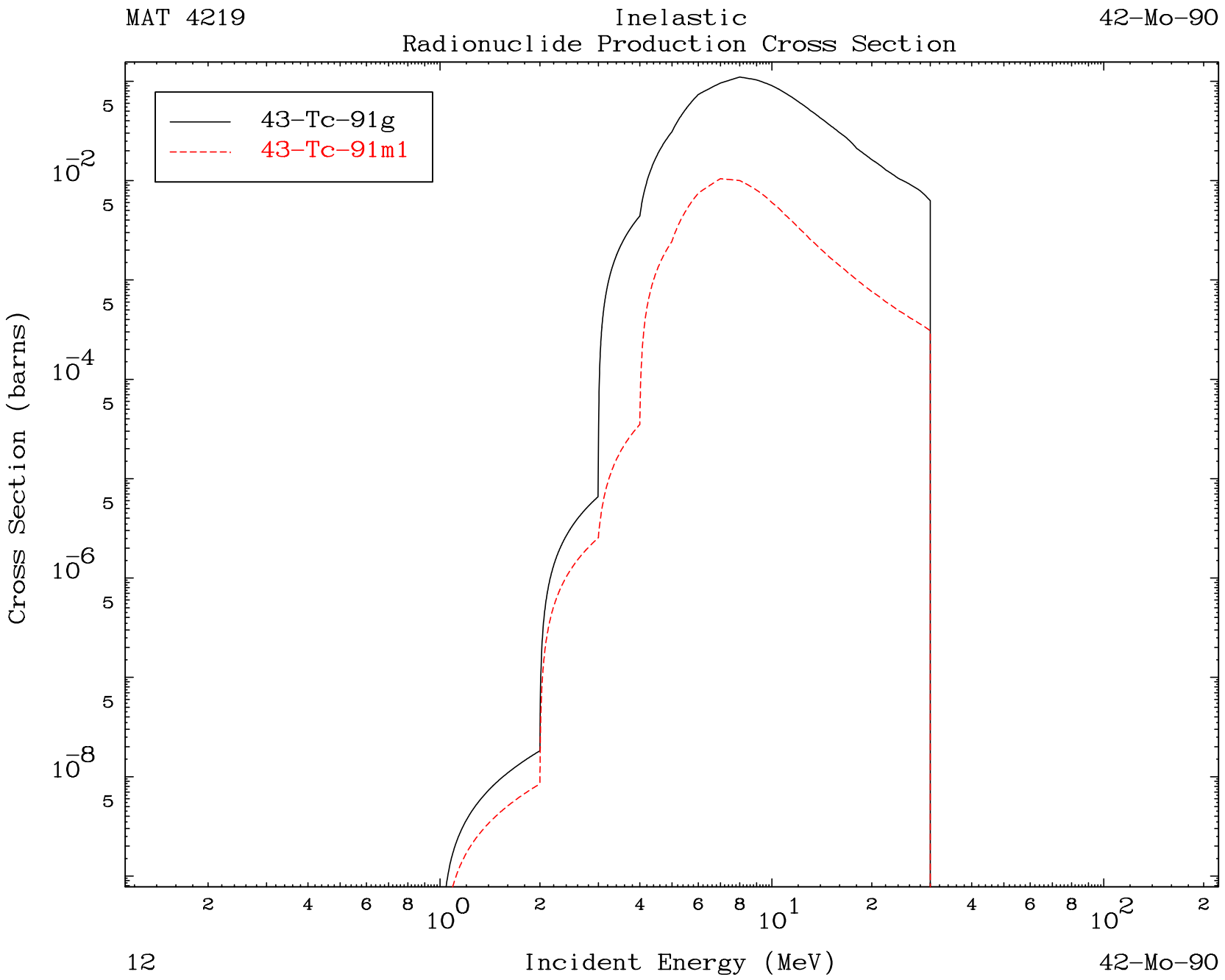

MAT 4219
(d,p) Levels
42-Mo-90
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
42-Mo-90

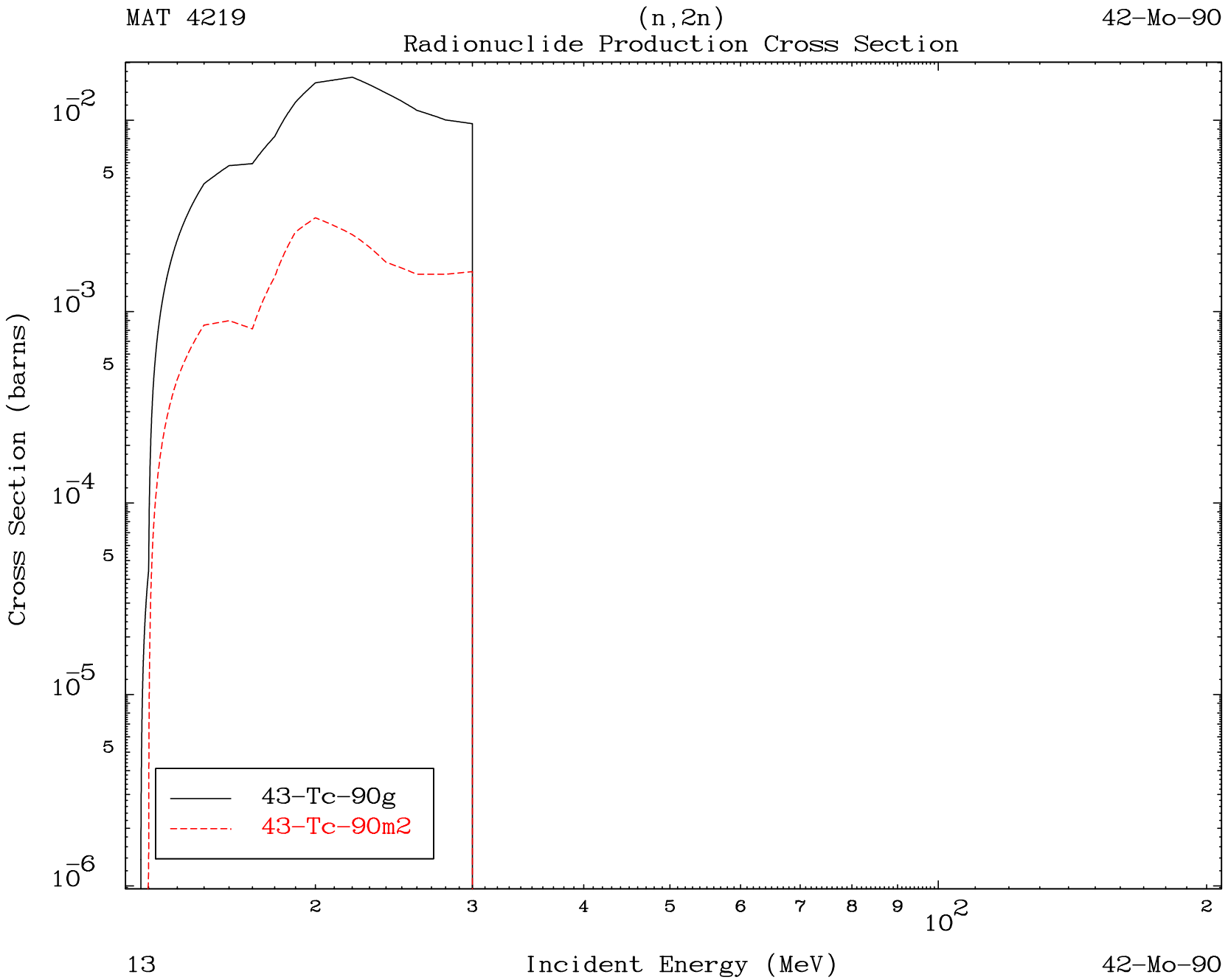

MAT 4219
(d,d) Levels
42-Mo-90
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
42-Mo-90
8

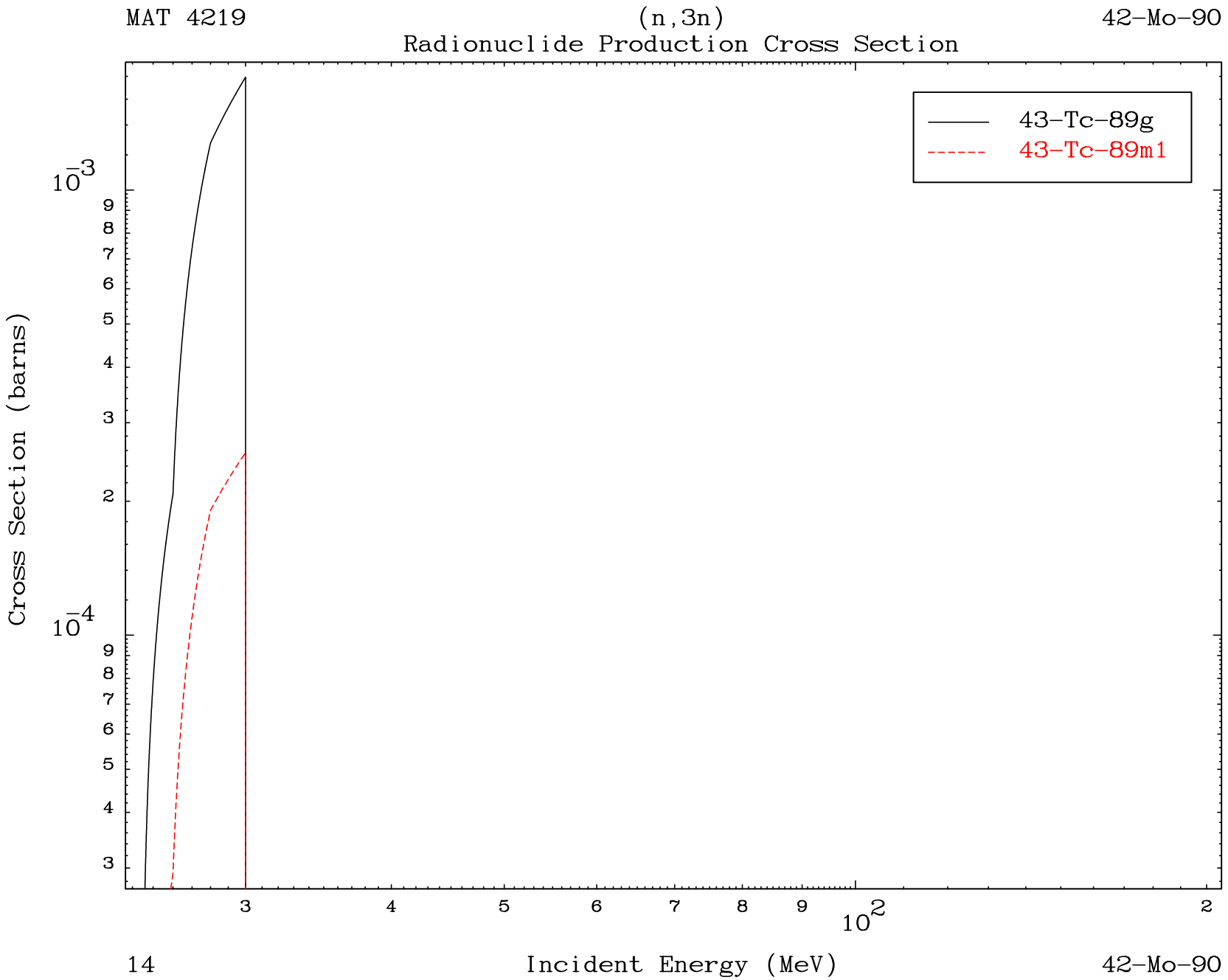

MAT 4219
(d,t) Levels
42-Mo-90
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
42-Mo-90
9

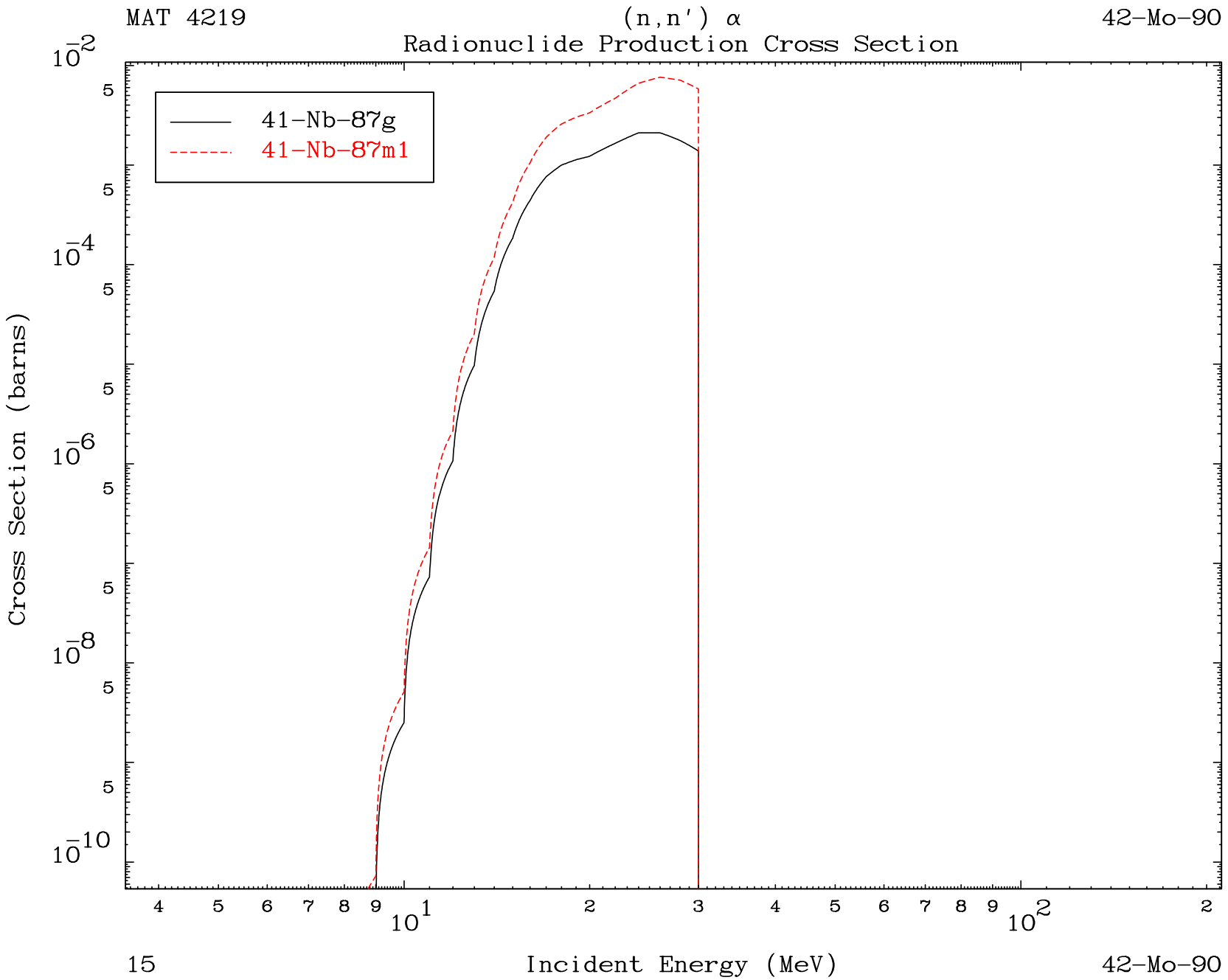

MAT 4219
(d,He3) Levels
42-Mo-90
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
10
42-Mo-90

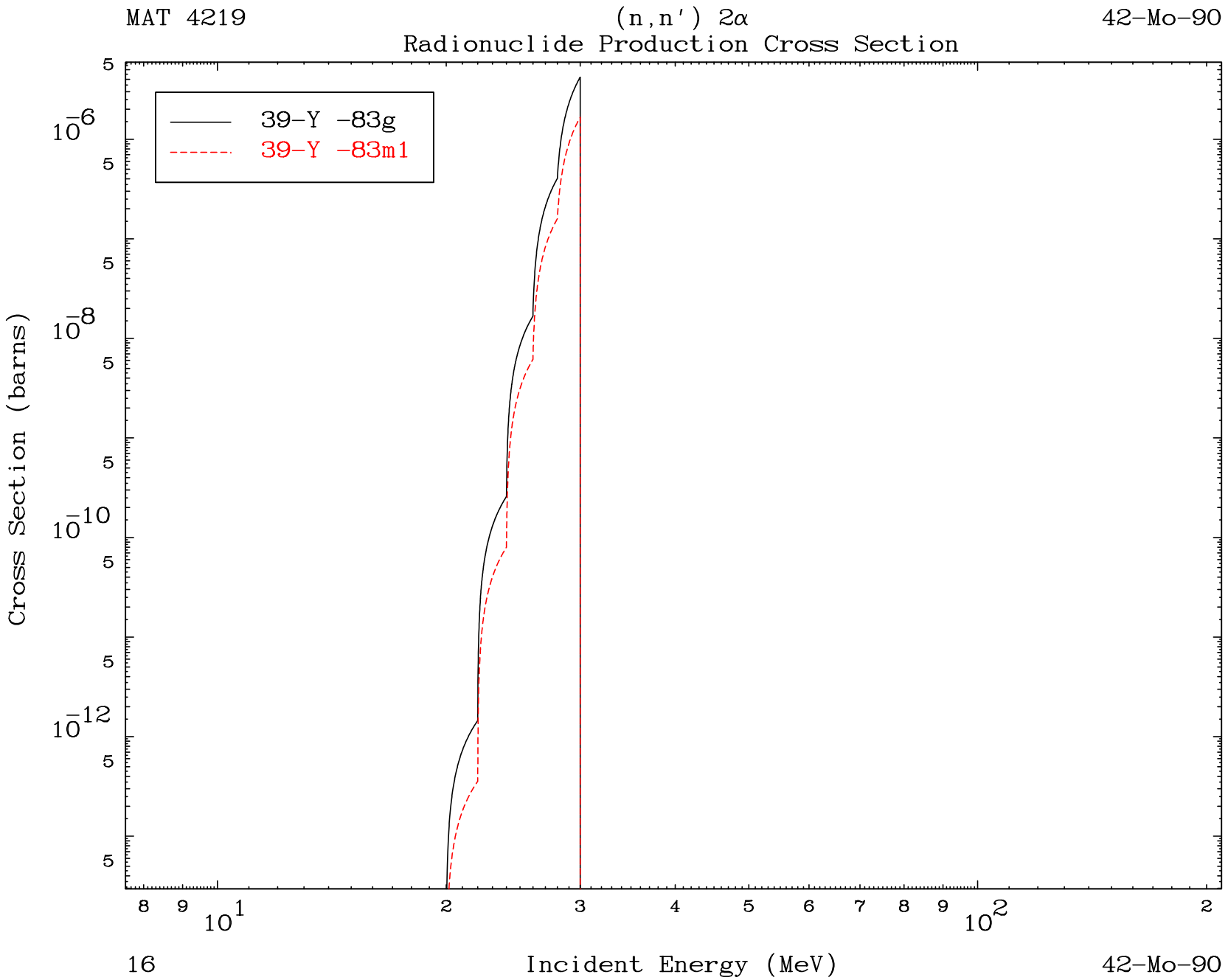

MAT 4219
(d,α) Levels
42-Mo-90
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
42-Mo-90

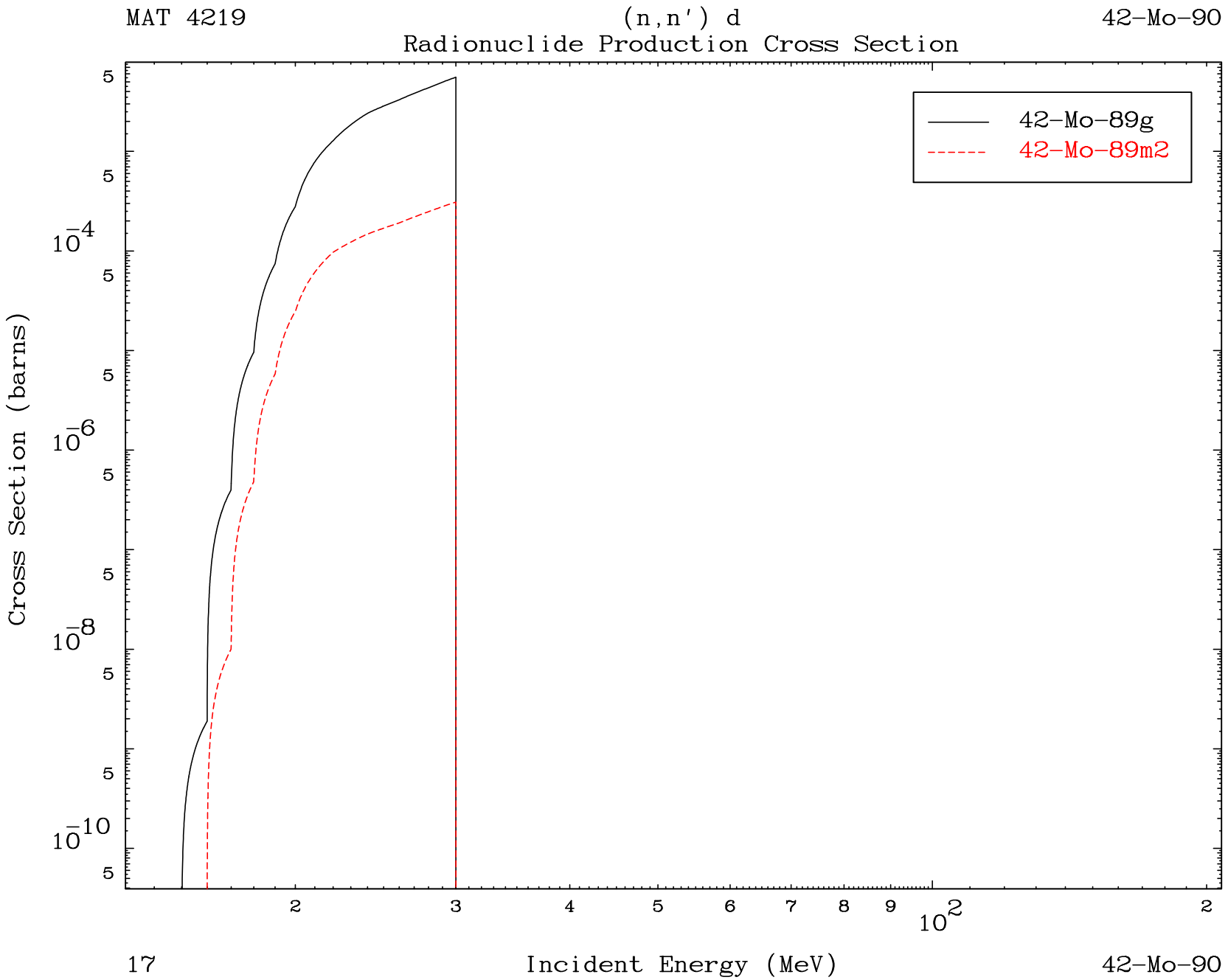

MAT 4219
Inelastic
42-Mo-90
Radionuclide Production Cross Section
43-Tc-91g
43-Tc-91m1
Cross Section (barns)
Incident Energy (MeV)
12
42-Mo-90

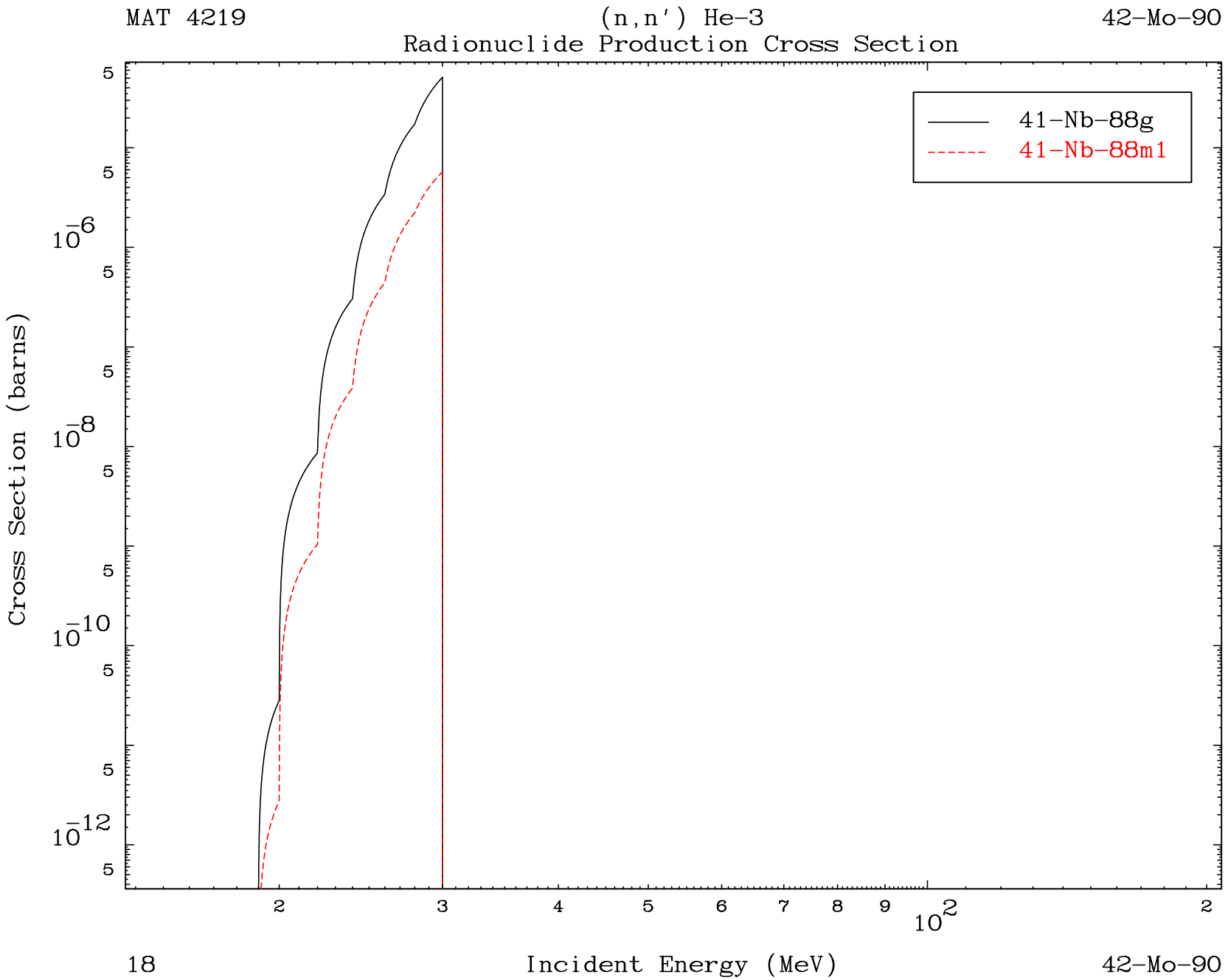

MAT 4219
(n,2n)
42-Mo-90
Radionuclide Production Cross Section
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
2
3
4
5
6
7
8
9
10 2
2
43-Tc-90g
43-Tc-90m2
13
Incident Energy (MeV)
42-Mo-90

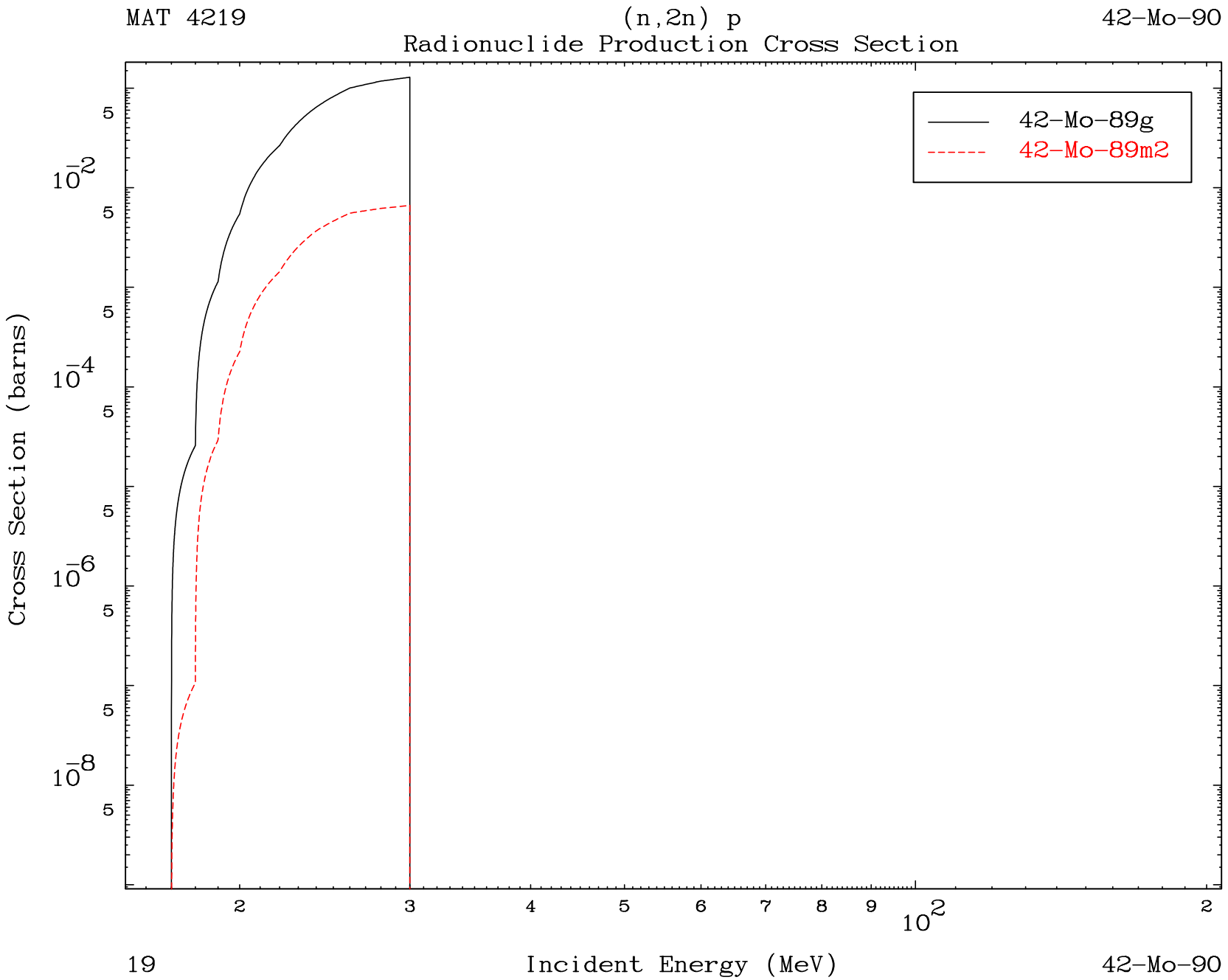

MAT 4219
(n,3n)
42-Mo-90
Radionuclide Production Cross Section
43-Tc-89g
43-Tc-89m1
Cross Section (barns)
10^-3
10^-4
9
8
7
6
5
4
3
2
3
4
5
6
7
8
9
10^2
2
14
Incident Energy (MeV)
42-Mo-90

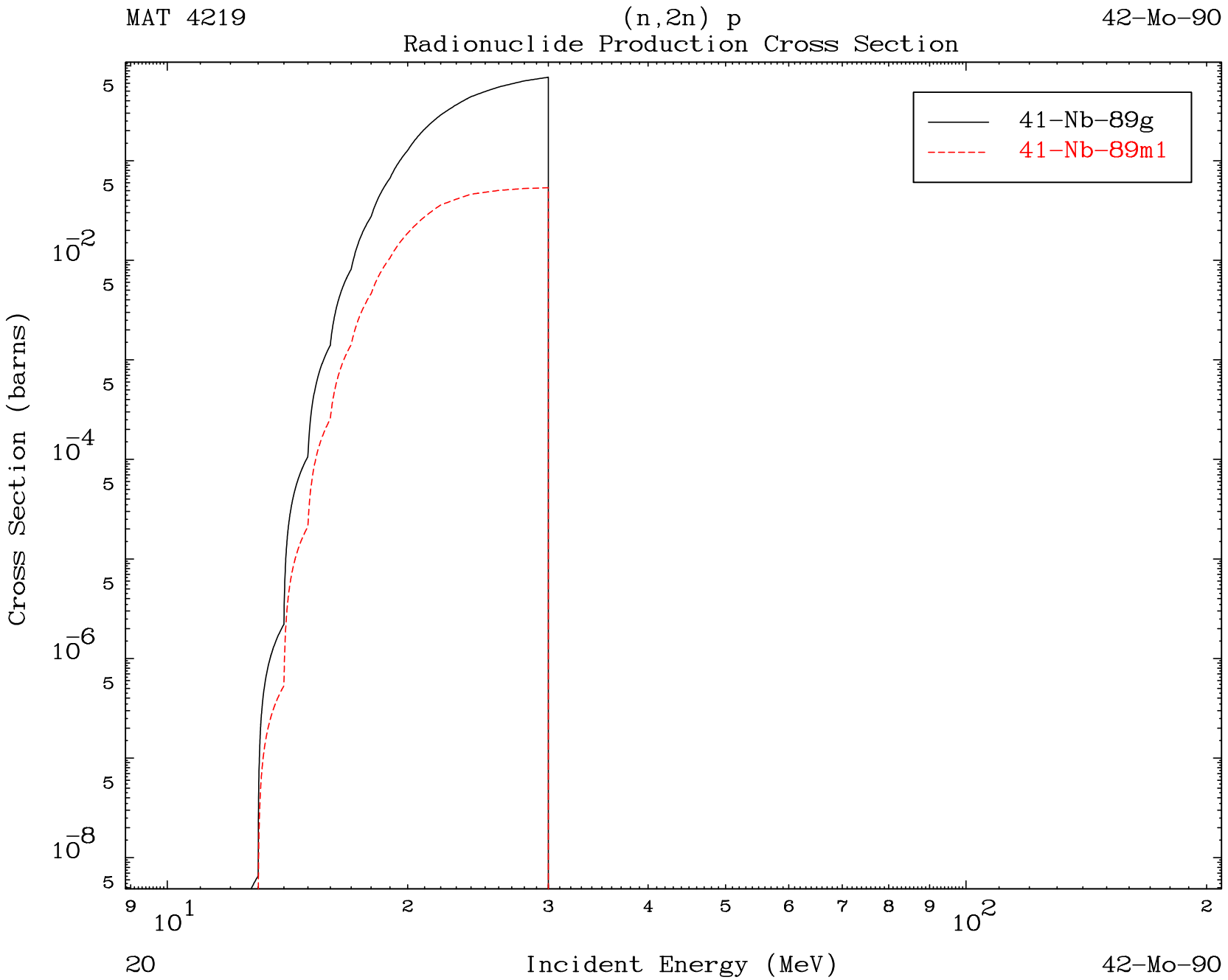

MAT 4219
(n,n') α
42-Mo-90
Radionuclide Production Cross Section
41-Nb-87g
41-Nb-87m1
Cross Section (barns)
Incident Energy (MeV)
15
42-Mo-90

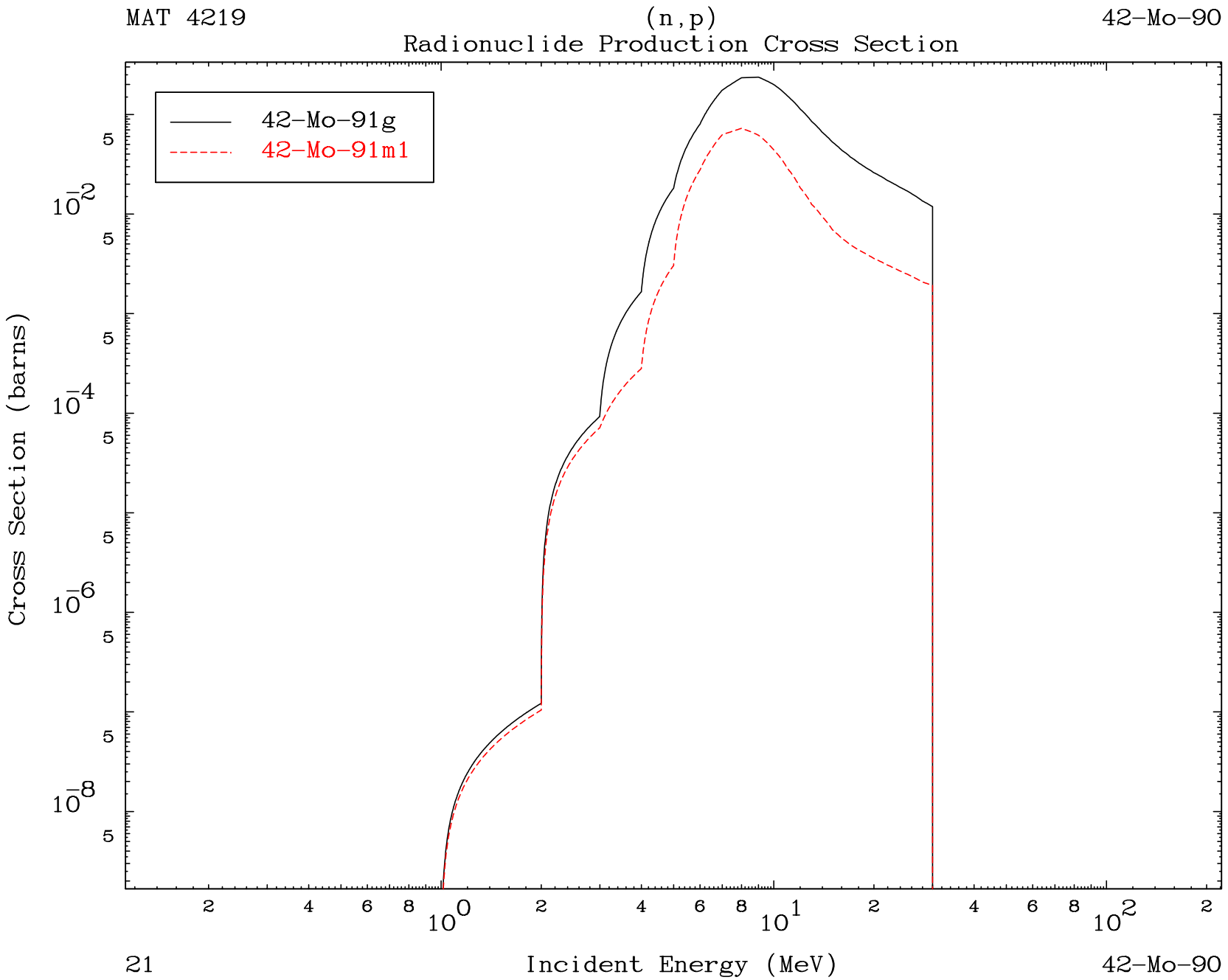

MAT 4219
(n,n') 2α
42-Mo-90
Radionuclide Production Cross Section
39-Y -83g
39-Y -83m1
Cross Section (barns)
Incident Energy (MeV)
16
42-Mo-90

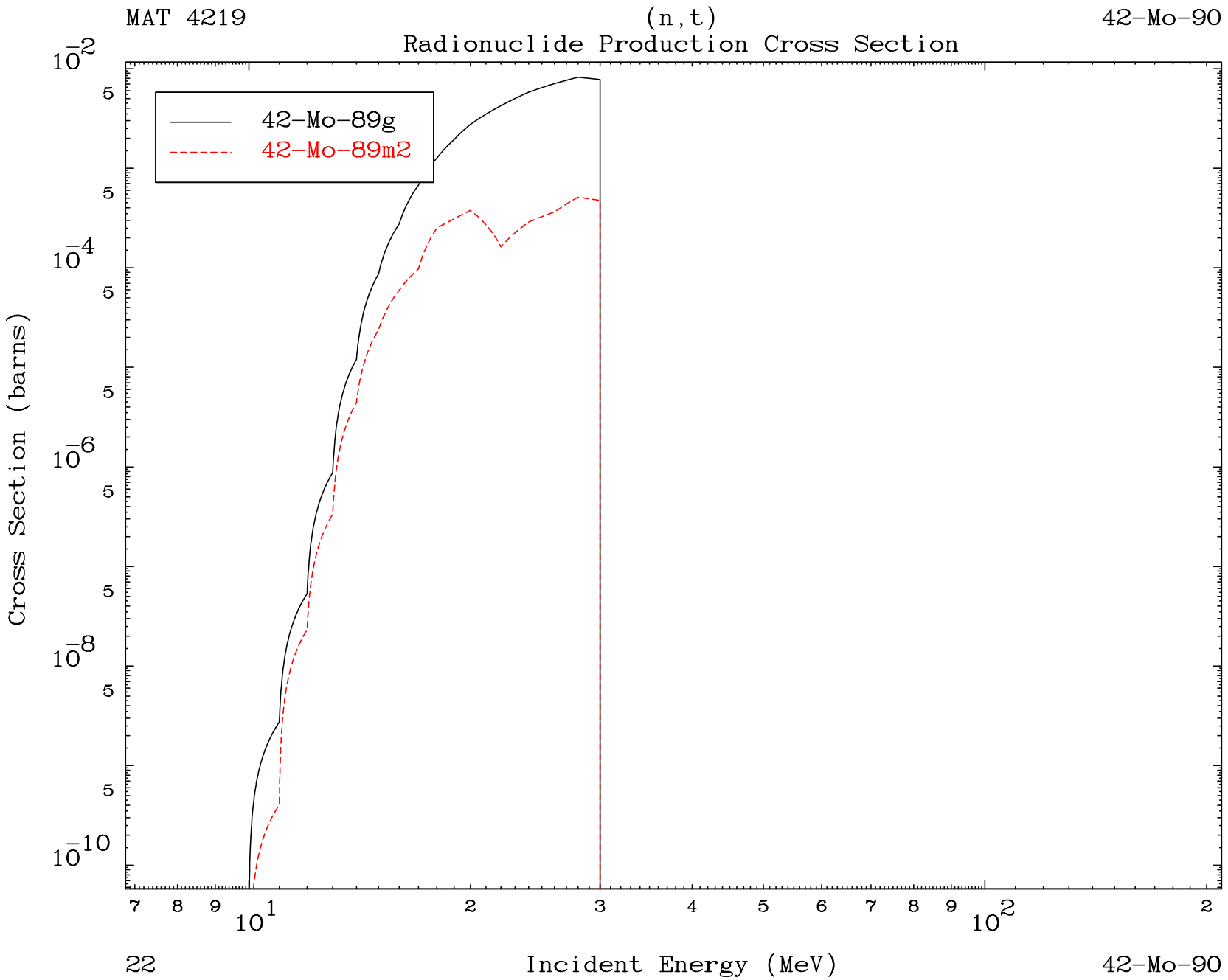

MAT 4219
(n,n') d
42-Mo-90
Radionuclide Production Cross Section
42-Mo-89g
42-Mo-89m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
42-Mo-90

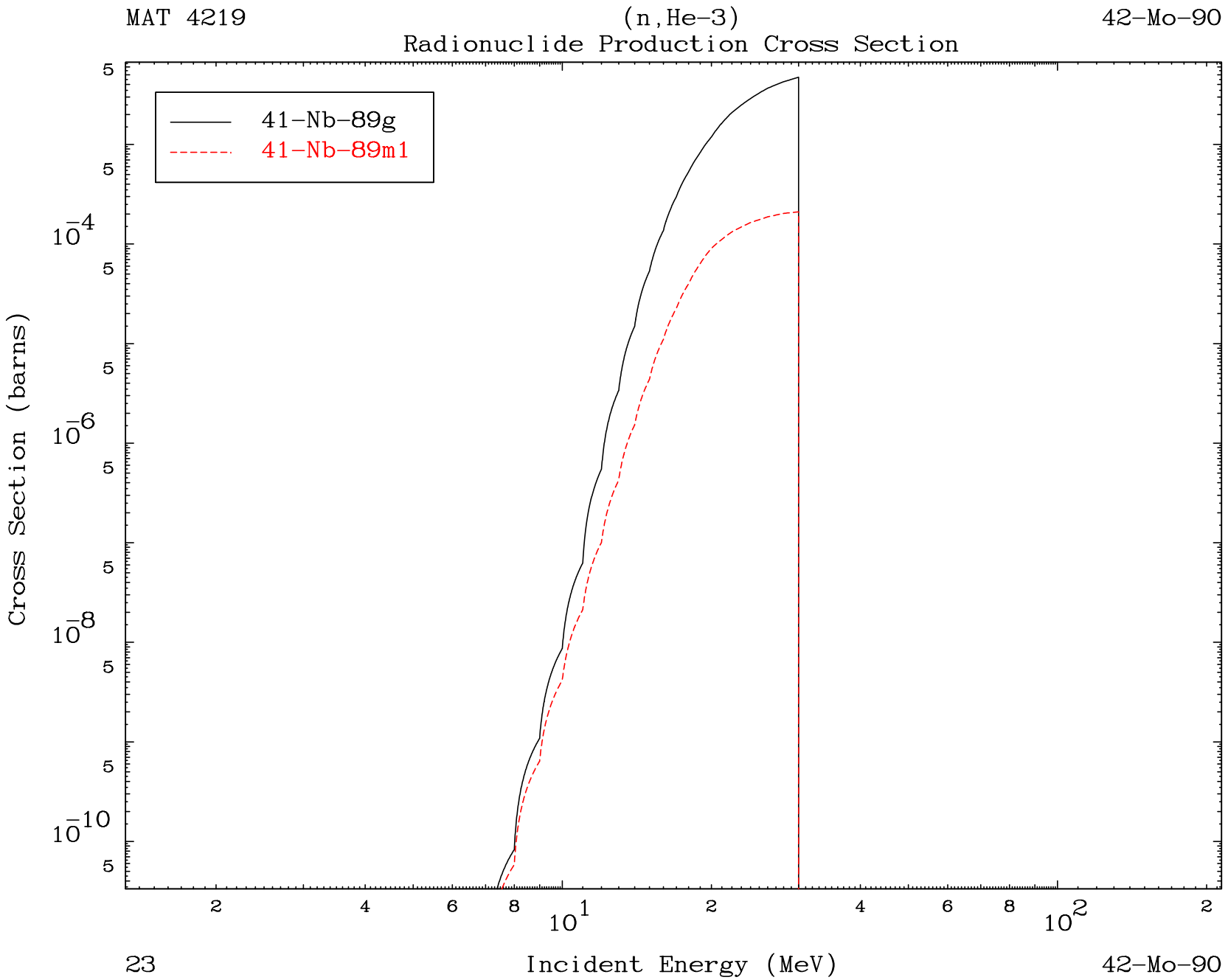

MAT 4219
(n,n') He-3
42-Mo-90
Radionuclide Production Cross Section
41-Nb-88g
41-Nb-88m1
Cross Section (barns)
Incident Energy (MeV)
18
42-Mo-90

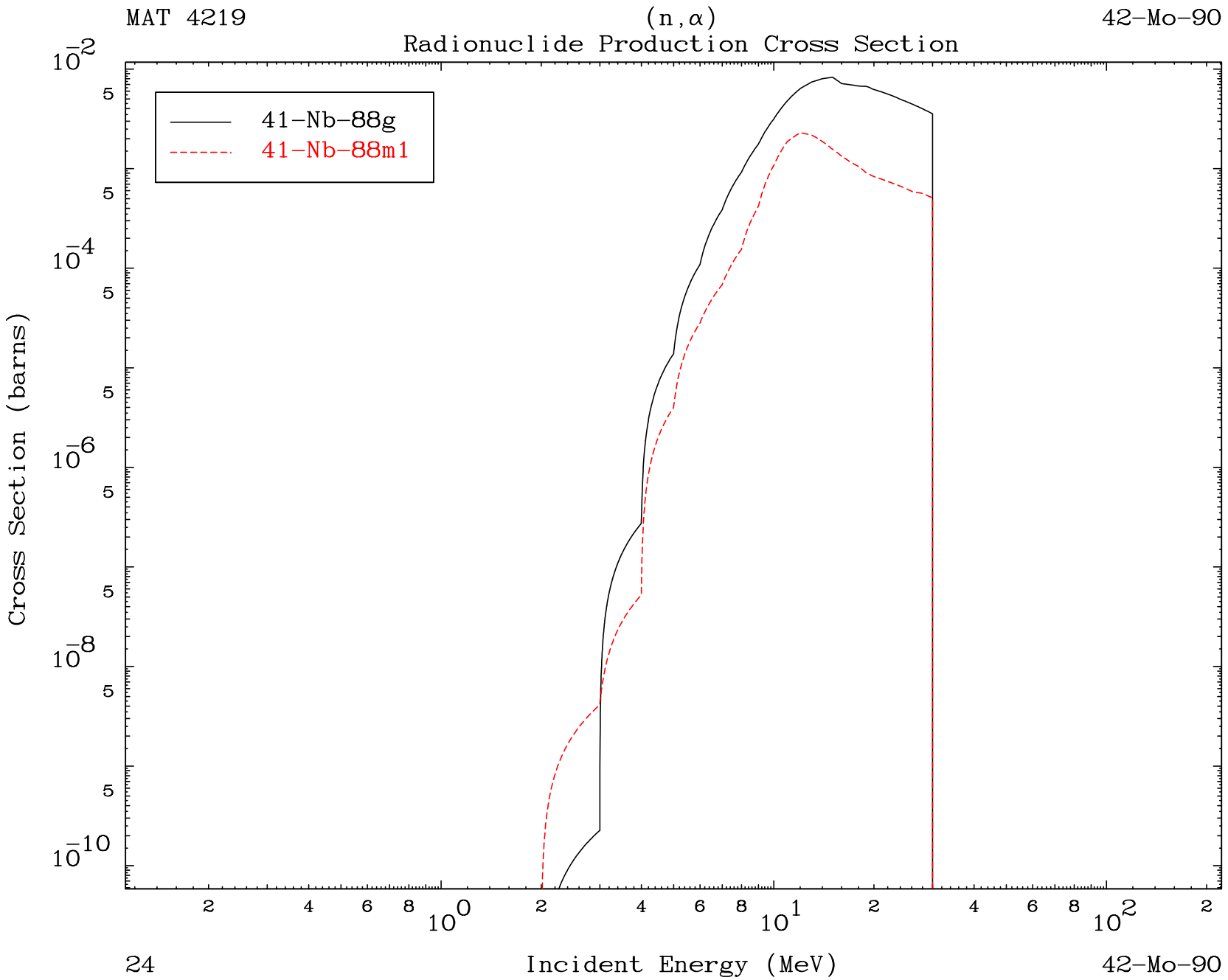

MAT 4219
(n,2n) p
42-Mo-90
Radionuclide Production Cross Section
42-Mo-89g
42-Mo-89m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
42-Mo-90

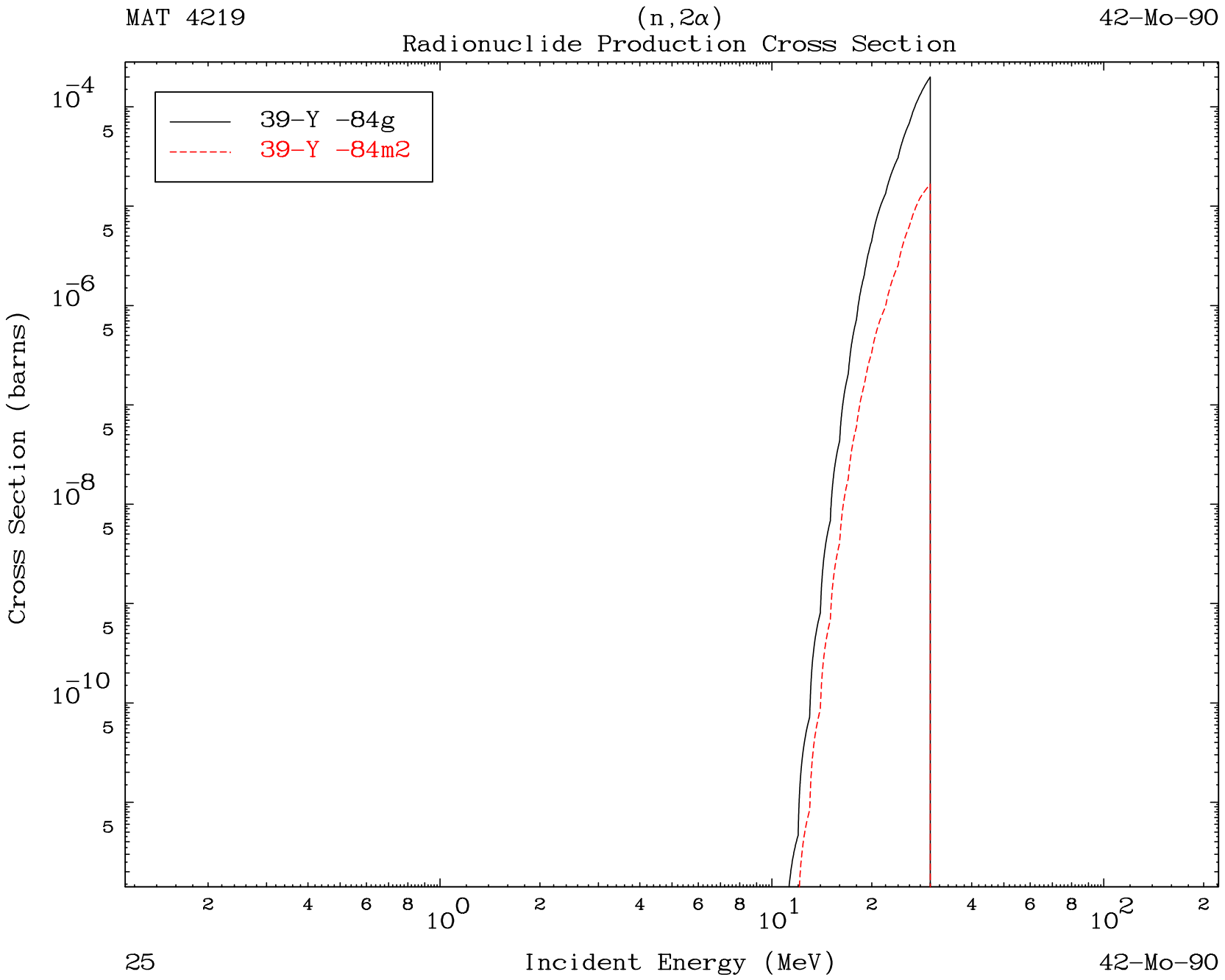

MAT 4219
(n,2n) p
42-Mo-90
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
Incident Energy (MeV)
20
42-Mo-90

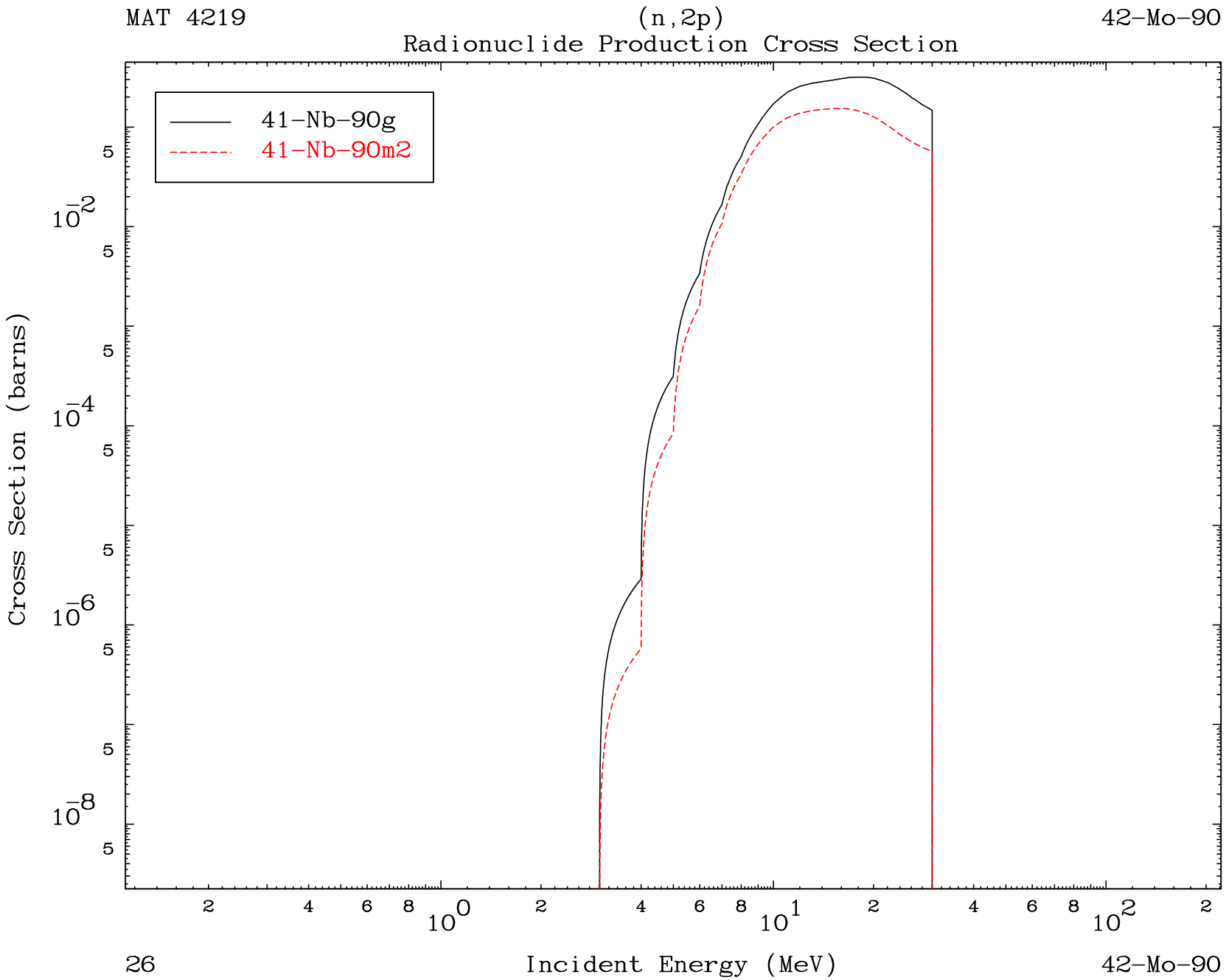

MAT 4219
(n,p)
42-Mo-90
Radionuclide Production Cross Section
42-Mo-91g
42-Mo-91m1
Cross Section (barns)
Incident Energy (MeV)
21
42-Mo-90

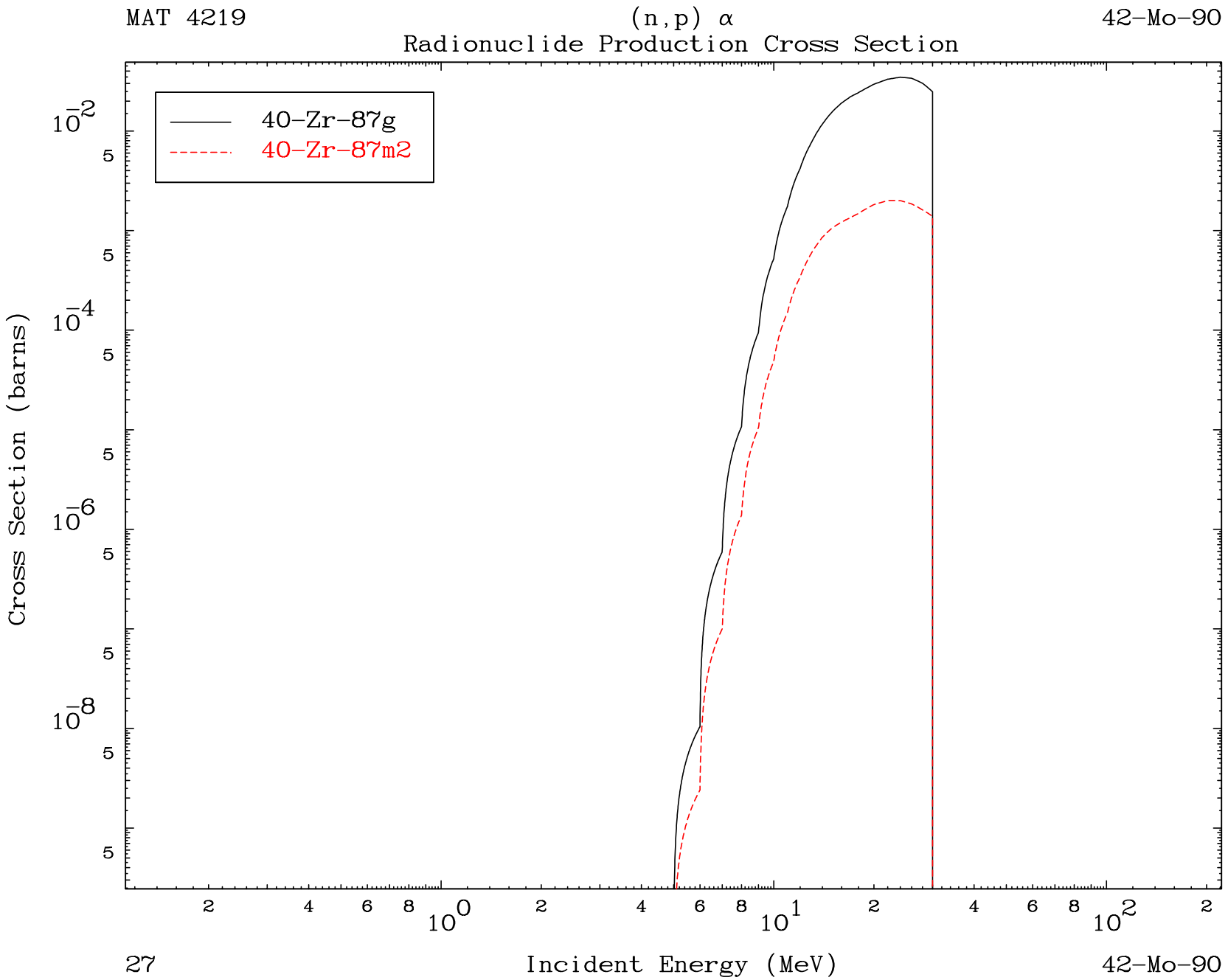

MAT 4219
(n,t)
42-Mo-90
Radionuclide Production Cross Section
42-Mo-89g
42-Mo-89m2
Cross Section (barns)
Incident Energy (MeV)
22
42-Mo-90

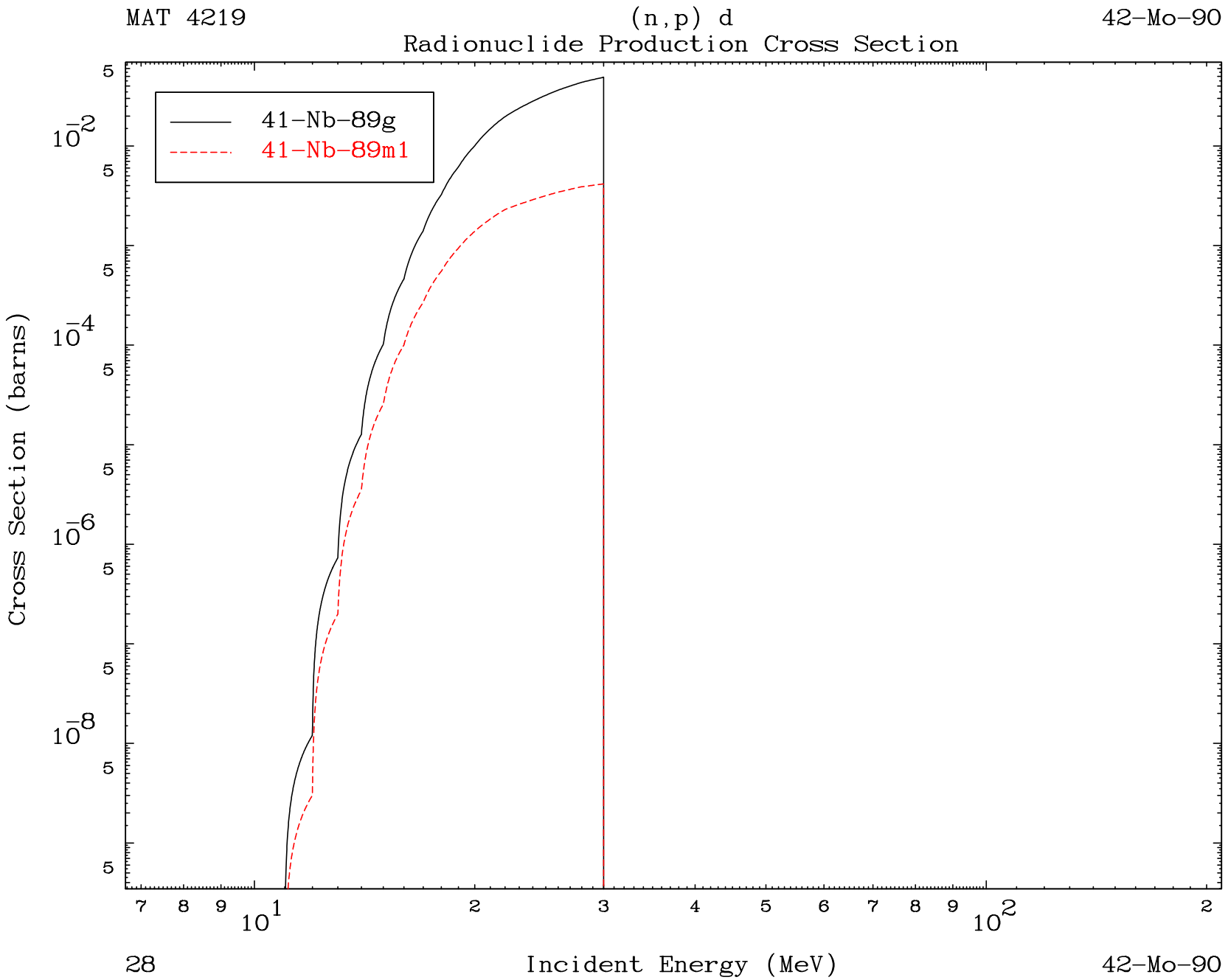

MAT 4219
(n,He-3)
42-Mo-90
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
Incident Energy (MeV)
23
42-Mo-90

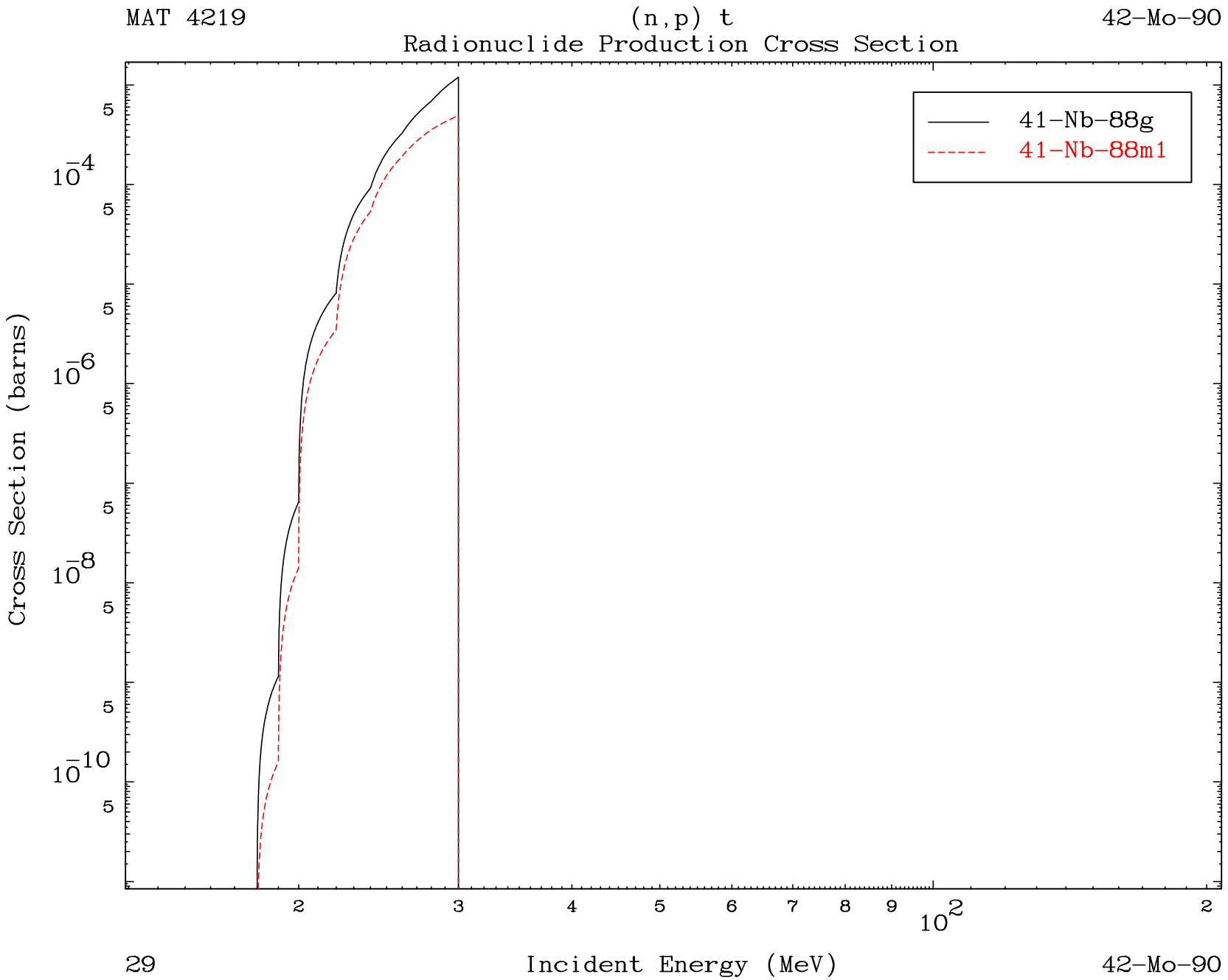

MAT 4219
(n,α)
42-Mo-90
Radionuclide Production Cross Section
41-Nb-88g
41-Nb-88m1
Cross Section (barns)
Incident Energy (MeV)
24
42-Mo-90


MAT 4219
(n,2α)
42-Mo-90
Radionuclide Production Cross Section
39-Y -84g
39-Y -84m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
25
42-Mo-90


MAT 4219
(n,2p)
42-Mo-90
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
Incident Energy (MeV)
26
42-Mo-90


MAT 4219
(n,p) α
42-Mo-90
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
101
102
2
4
6
8
27
Incident Energy (MeV)
42-Mo-90


MAT 4219
(n,p) d
42-Mo-90
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
Incident Energy (MeV)
28
42-Mo-90


MAT 4219
(n,p) t
42-Mo-90
Radionuclide Production Cross Section
41-Nb-88g
41-Nb-88m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
29
Incident Energy (MeV)
42-Mo-90