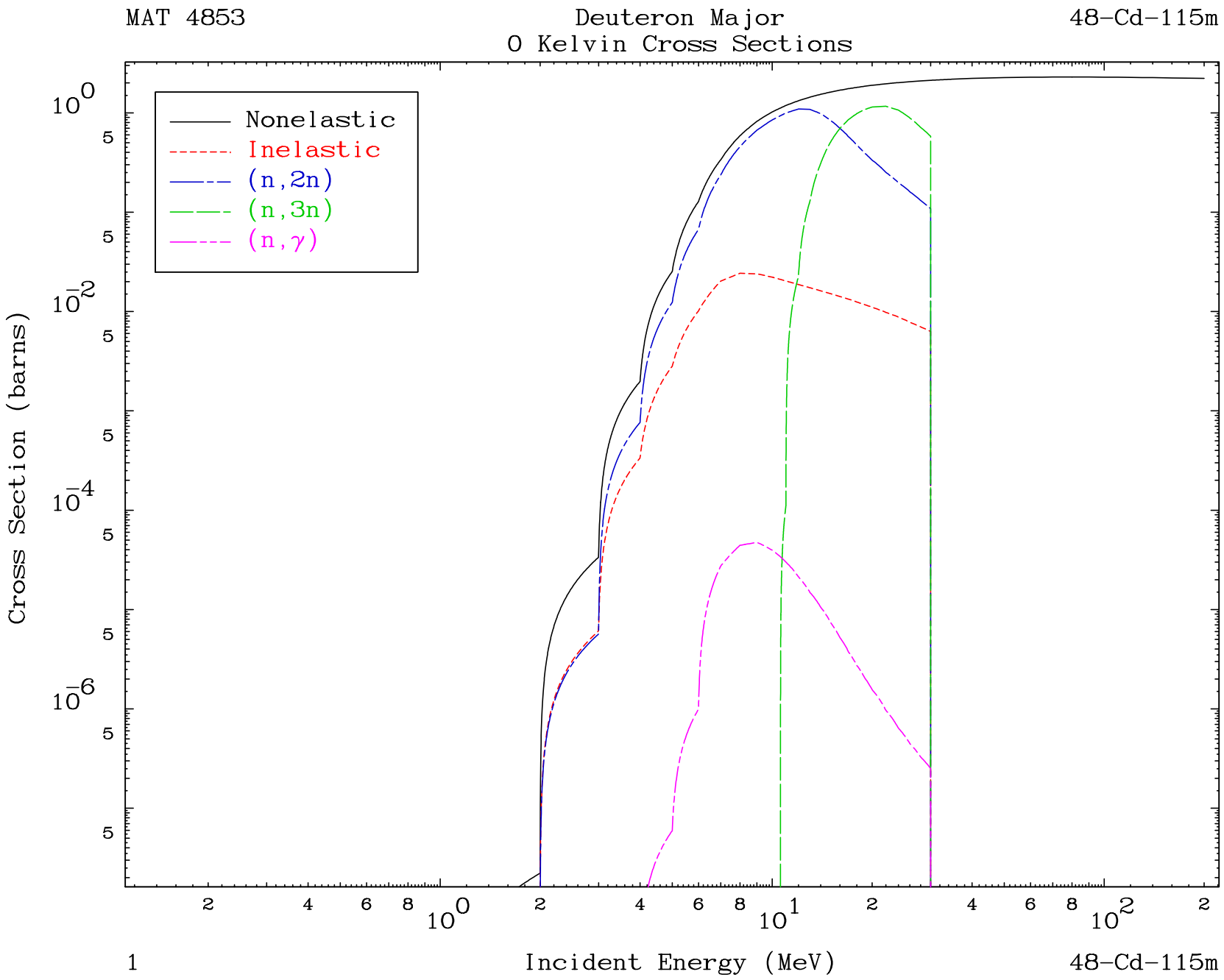
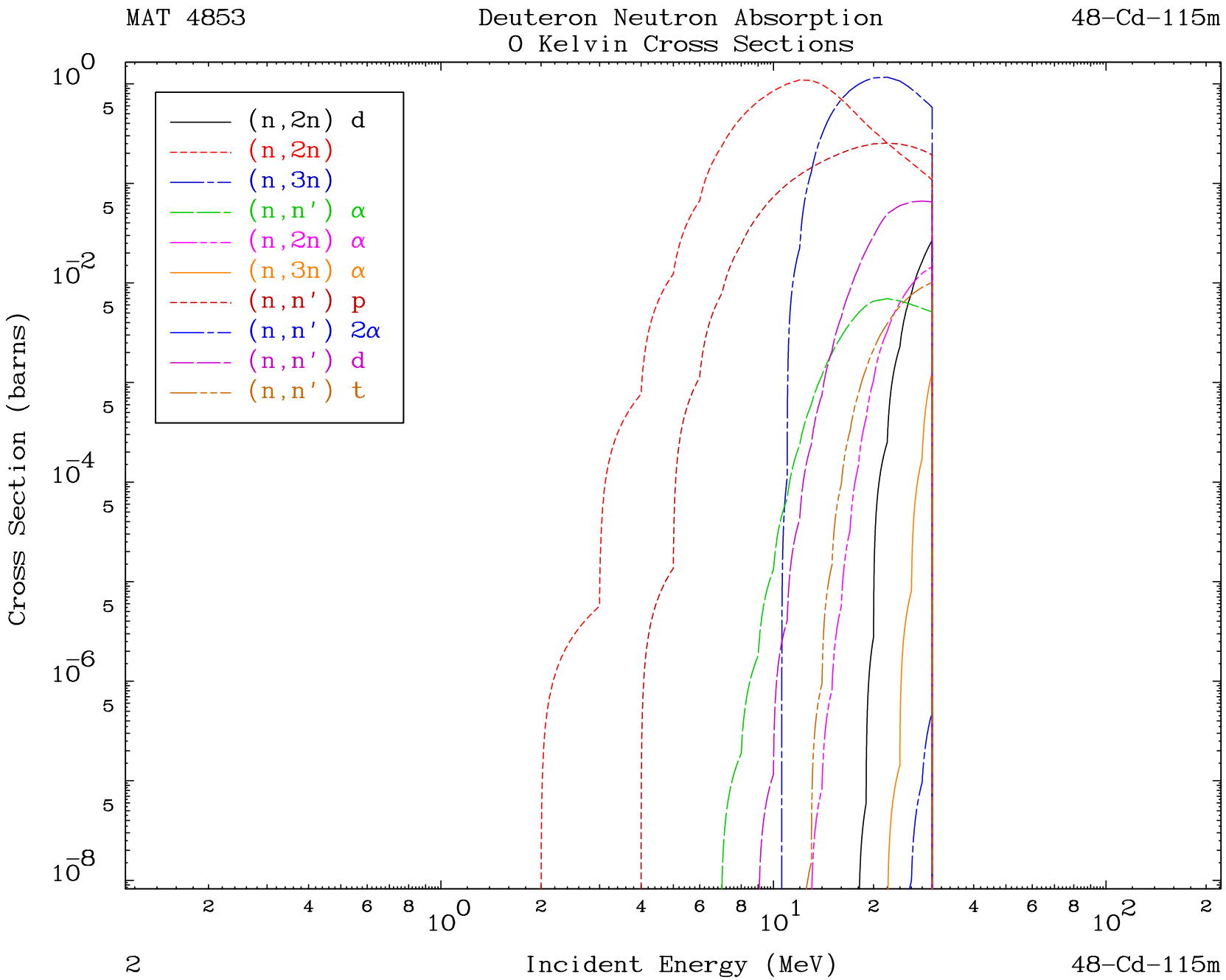
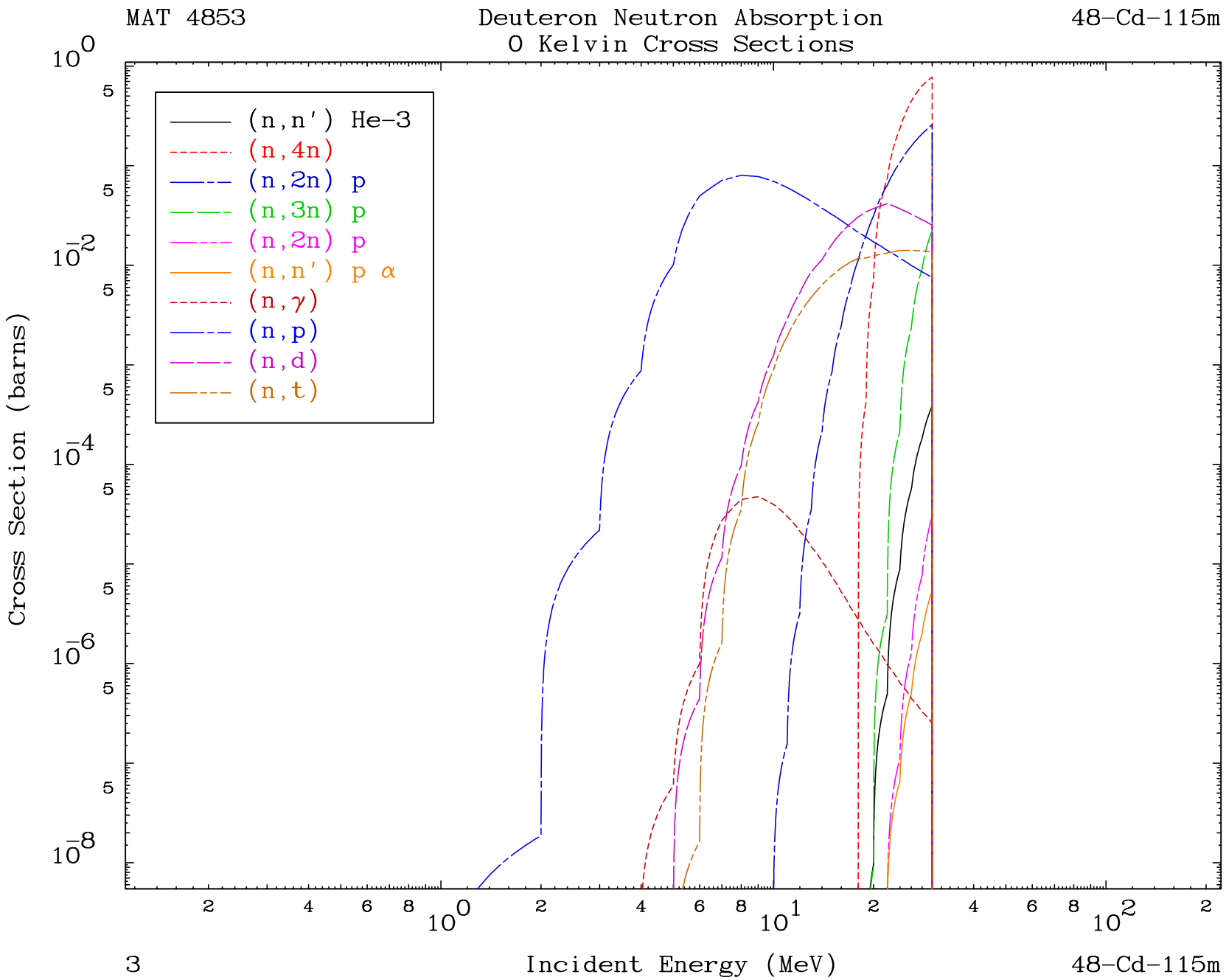
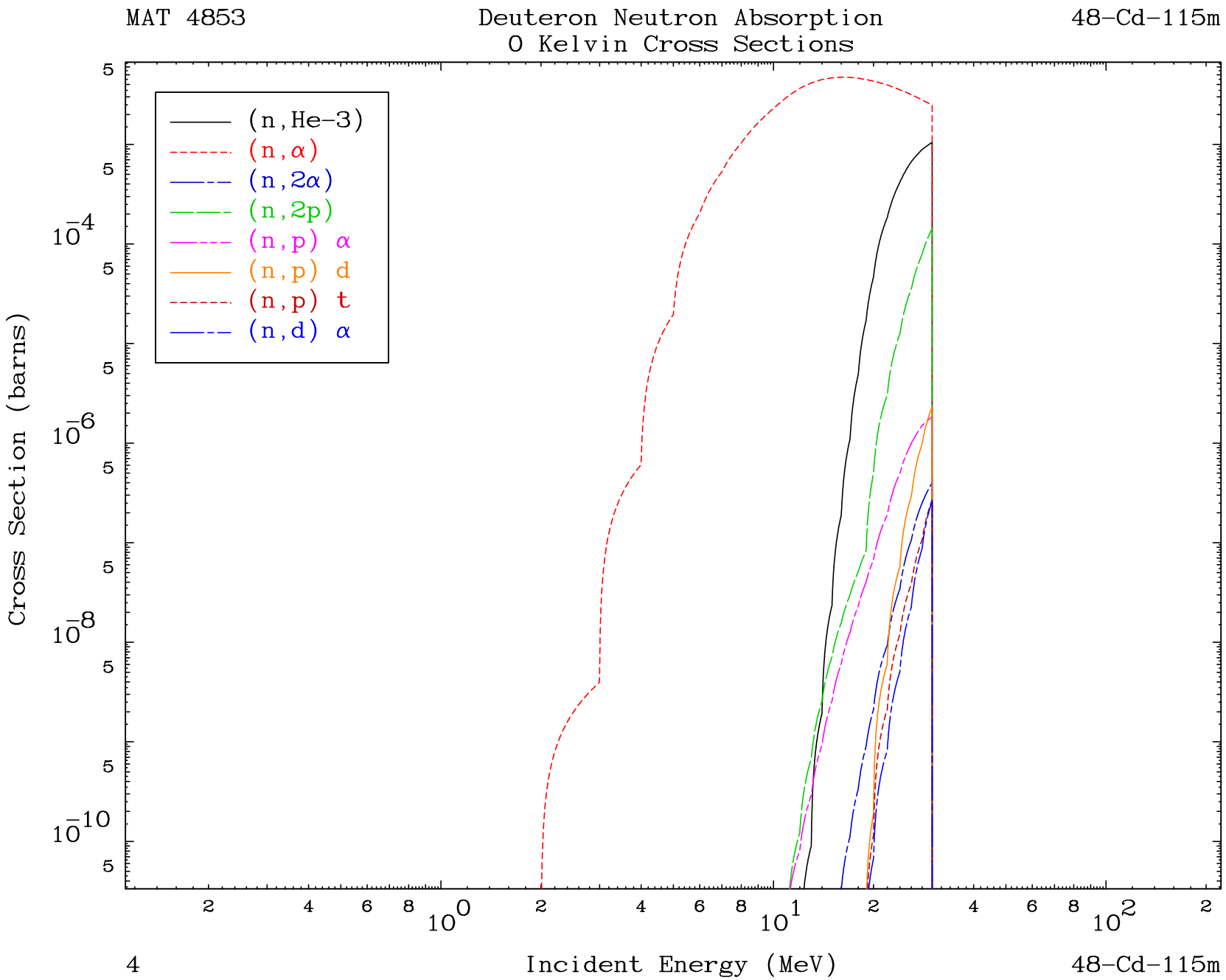
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

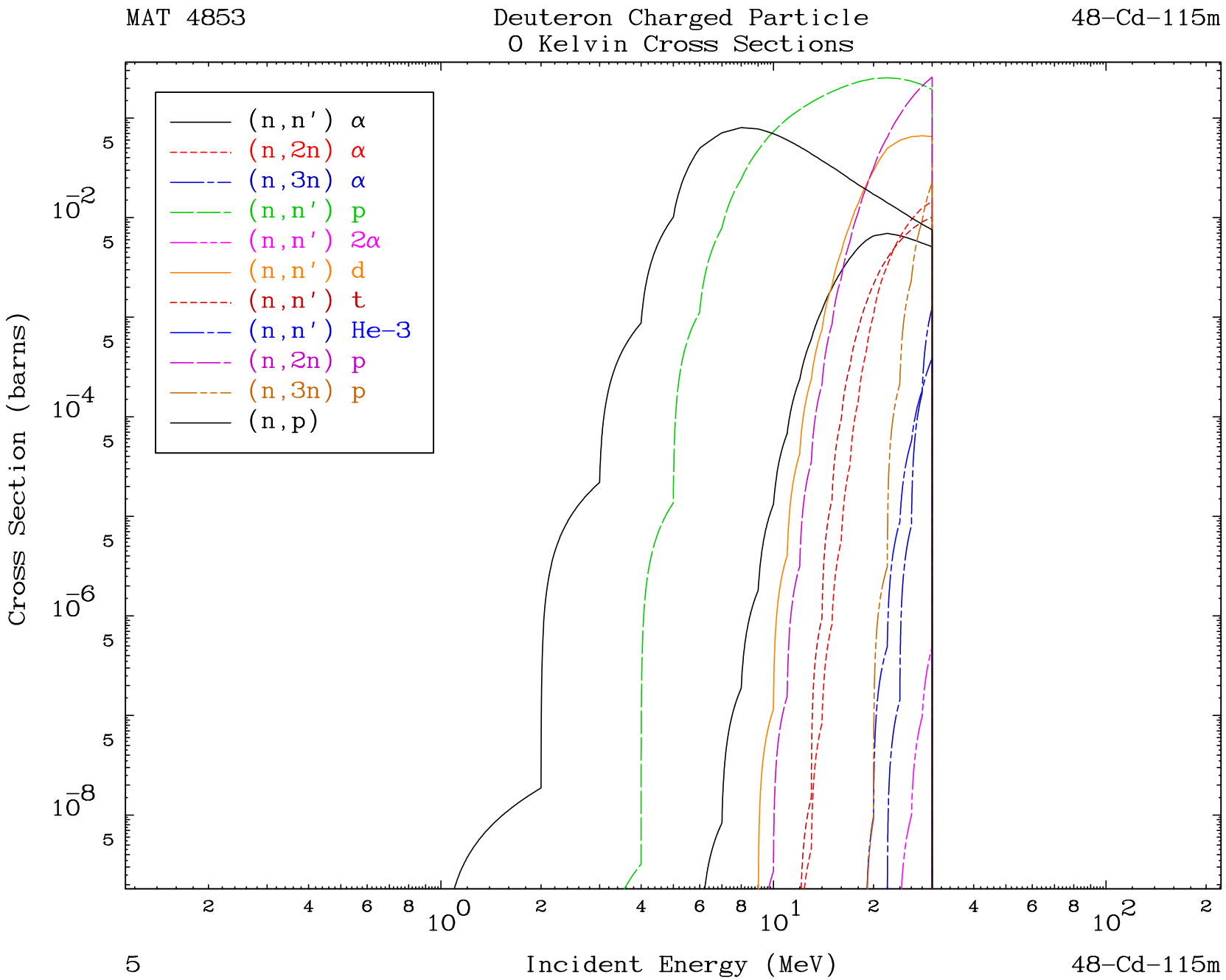
Press Mouse Button to Start

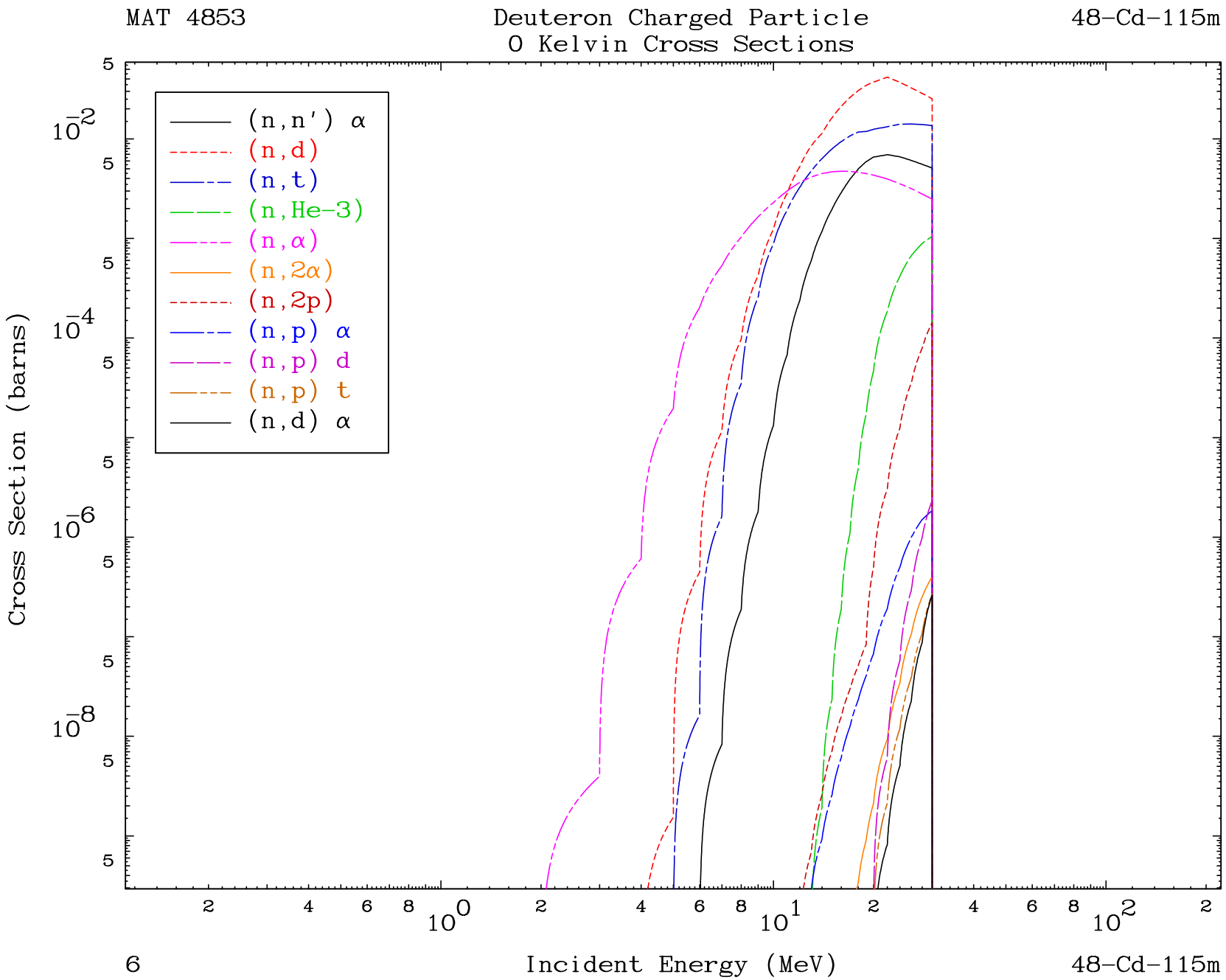

MAT 4853
Deuteron Major
48-Cd-115m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
48-Cd-115m
1

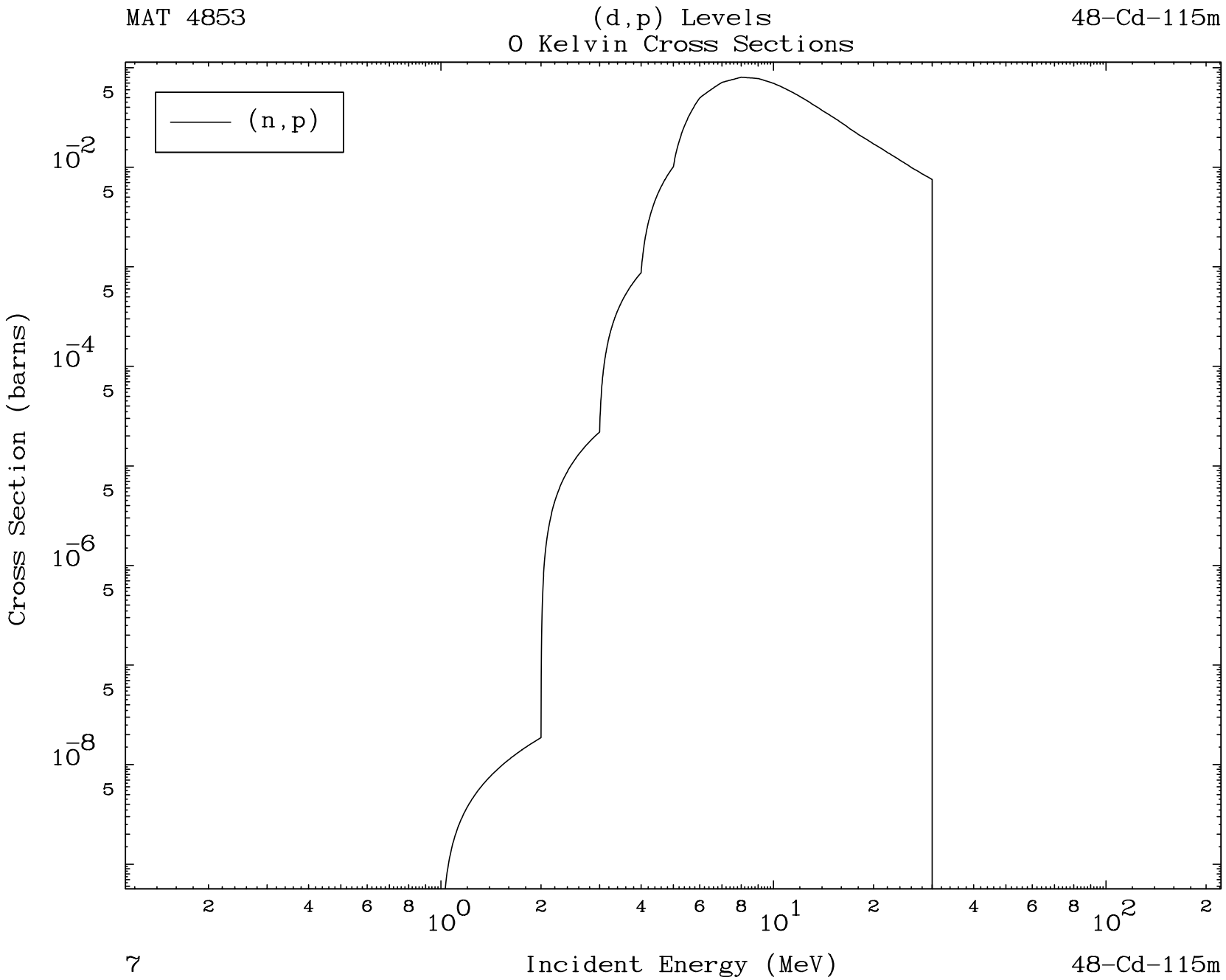

MAT 4853
Deuteron Neutron Absorption
0 Kelvin Cross Sections
48-Cd-115m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
48-Cd-115m
2

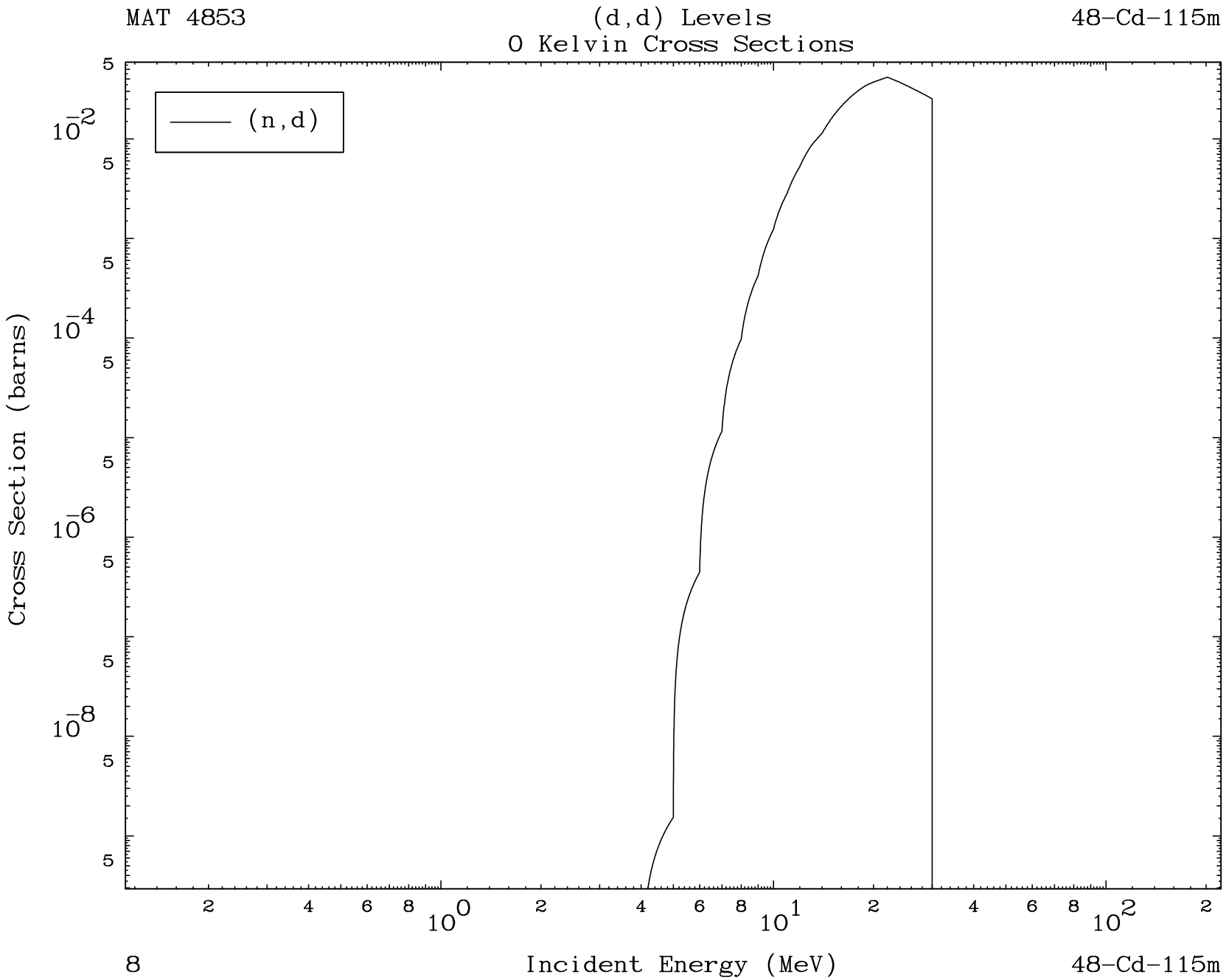

MAT 4853
Deuteron Neutron Absorption
0 Kelvin Cross Sections
48-Cd-115m
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
48-Cd-115m

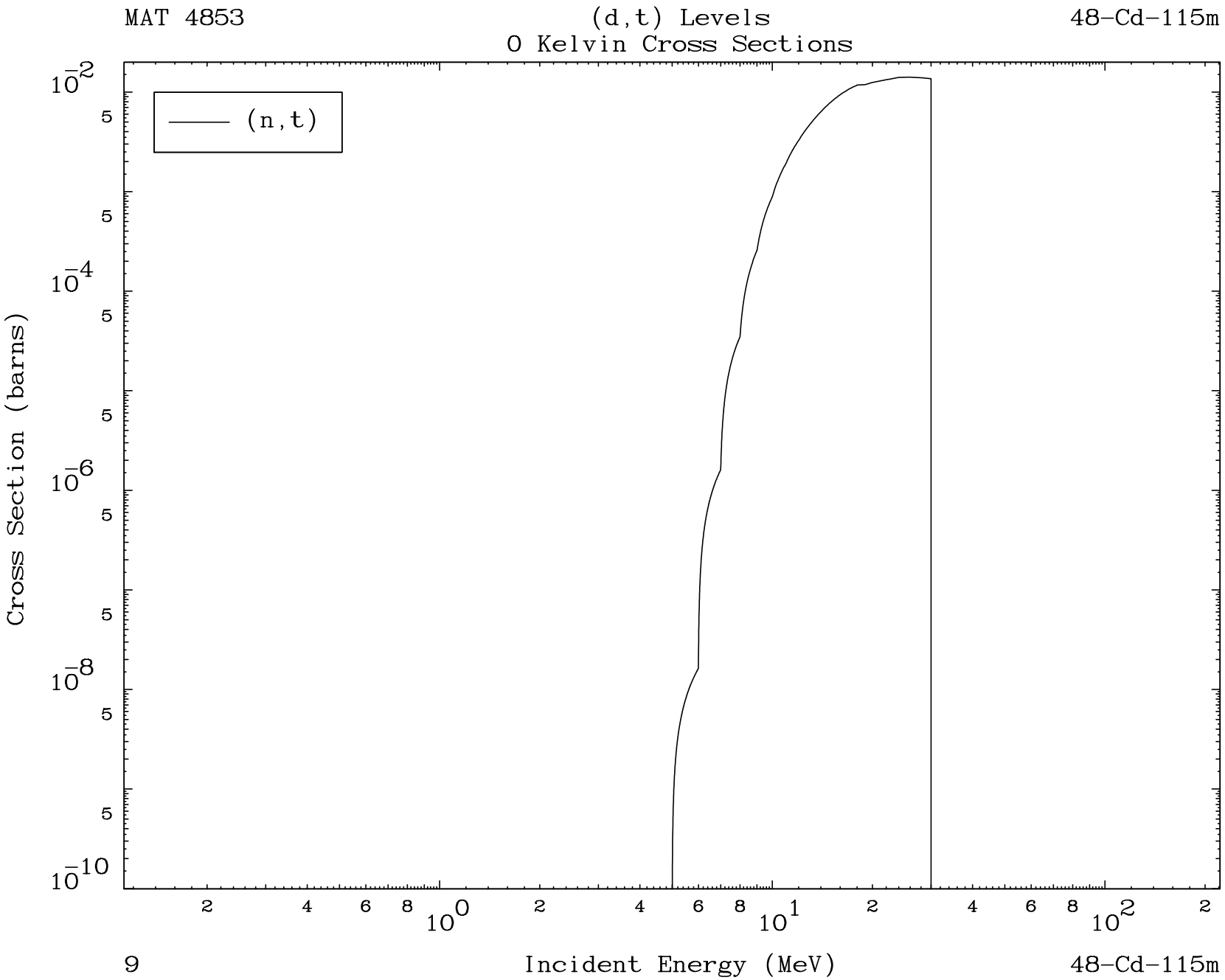

MAT 4853
Deuteron Neutron Absorption
0 Kelvin Cross Sections
48-Cd-115m
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
48-Cd-115m

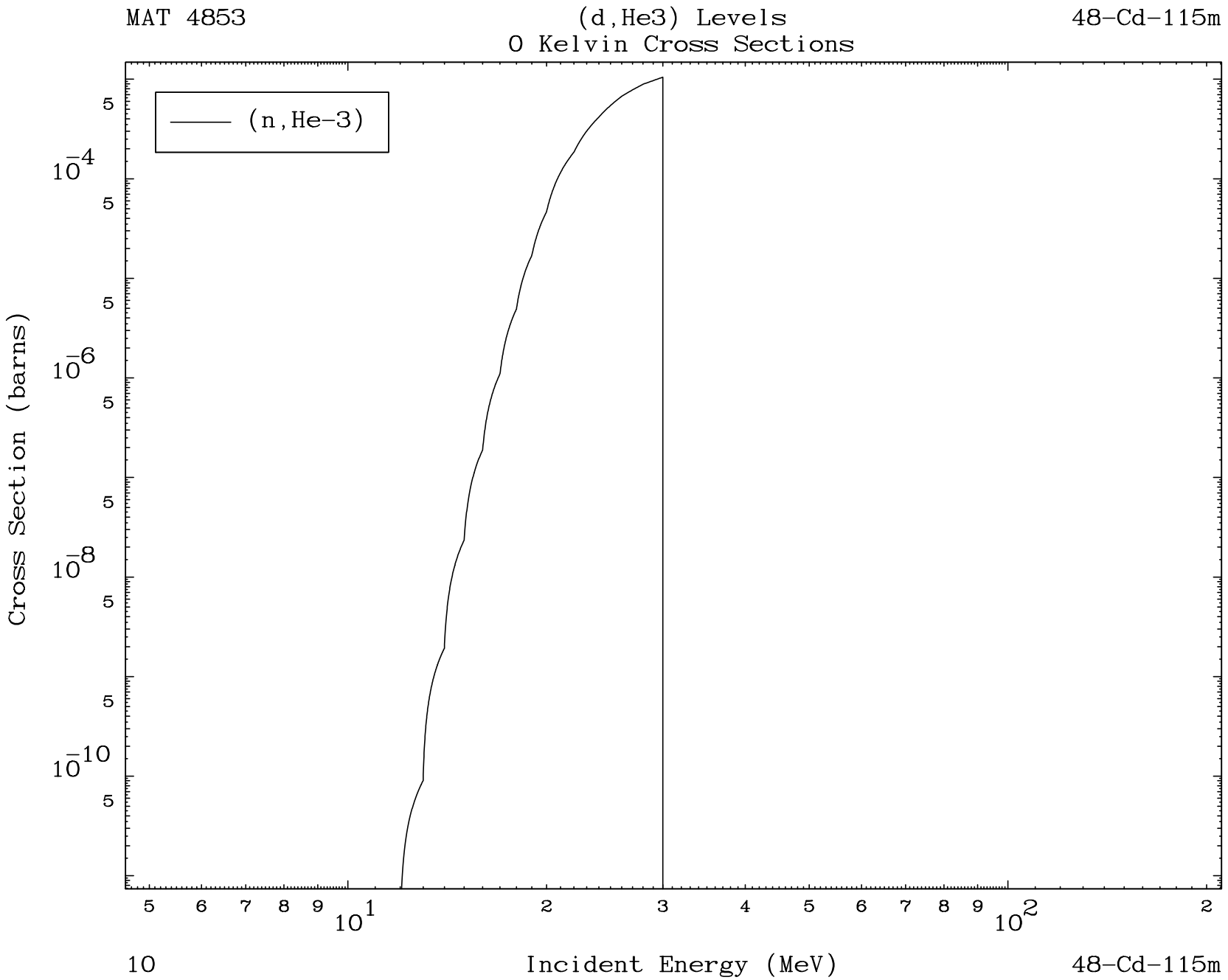

MAT 4853
Deuteron Charged Particle
0 Kelvin Cross Sections
48-Cd-115m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
5
48-Cd-115m

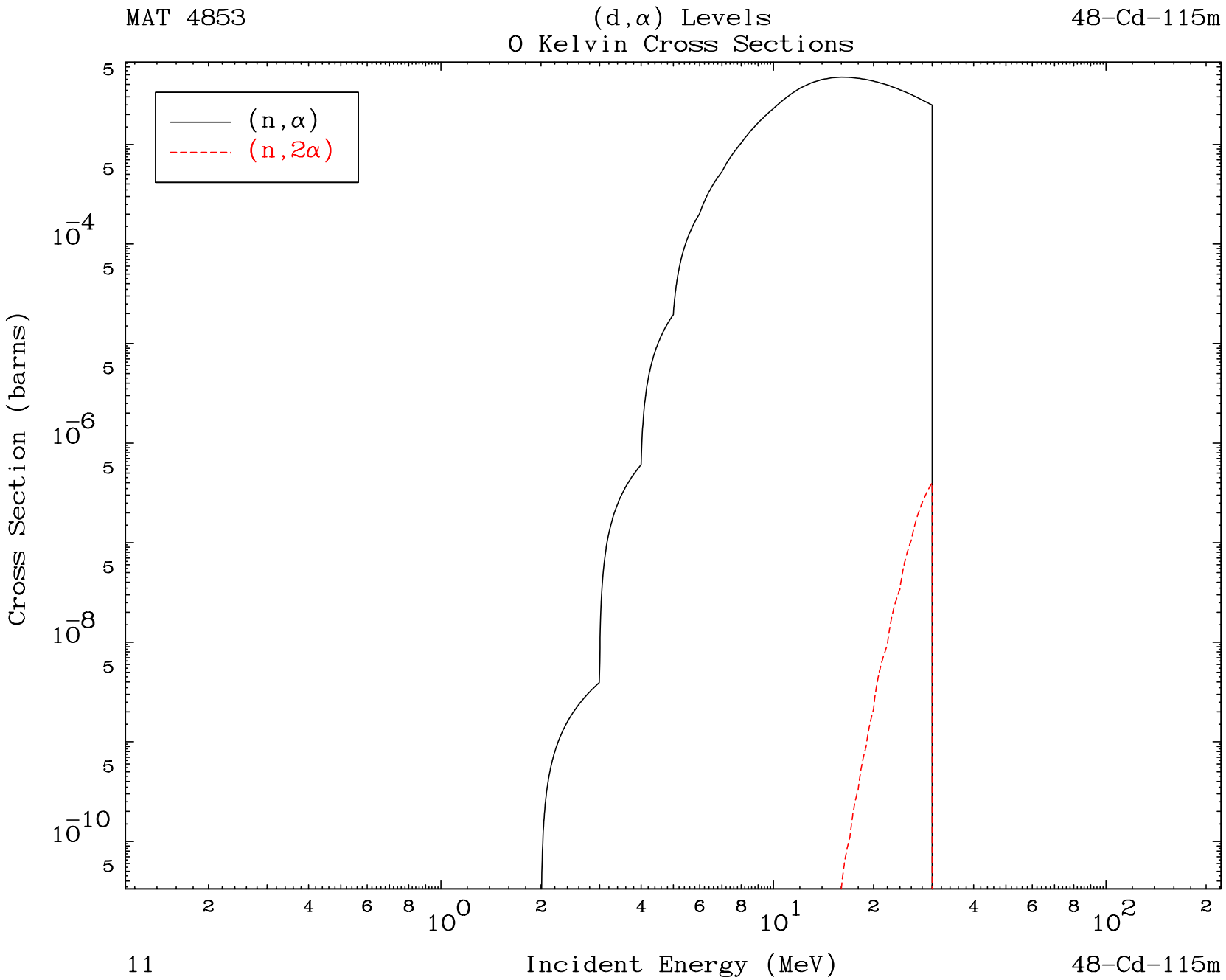

MAT 4853
Deuteron Charged Particle
0 Kelvin Cross Sections
48-Cd-115m
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
48-Cd-115m

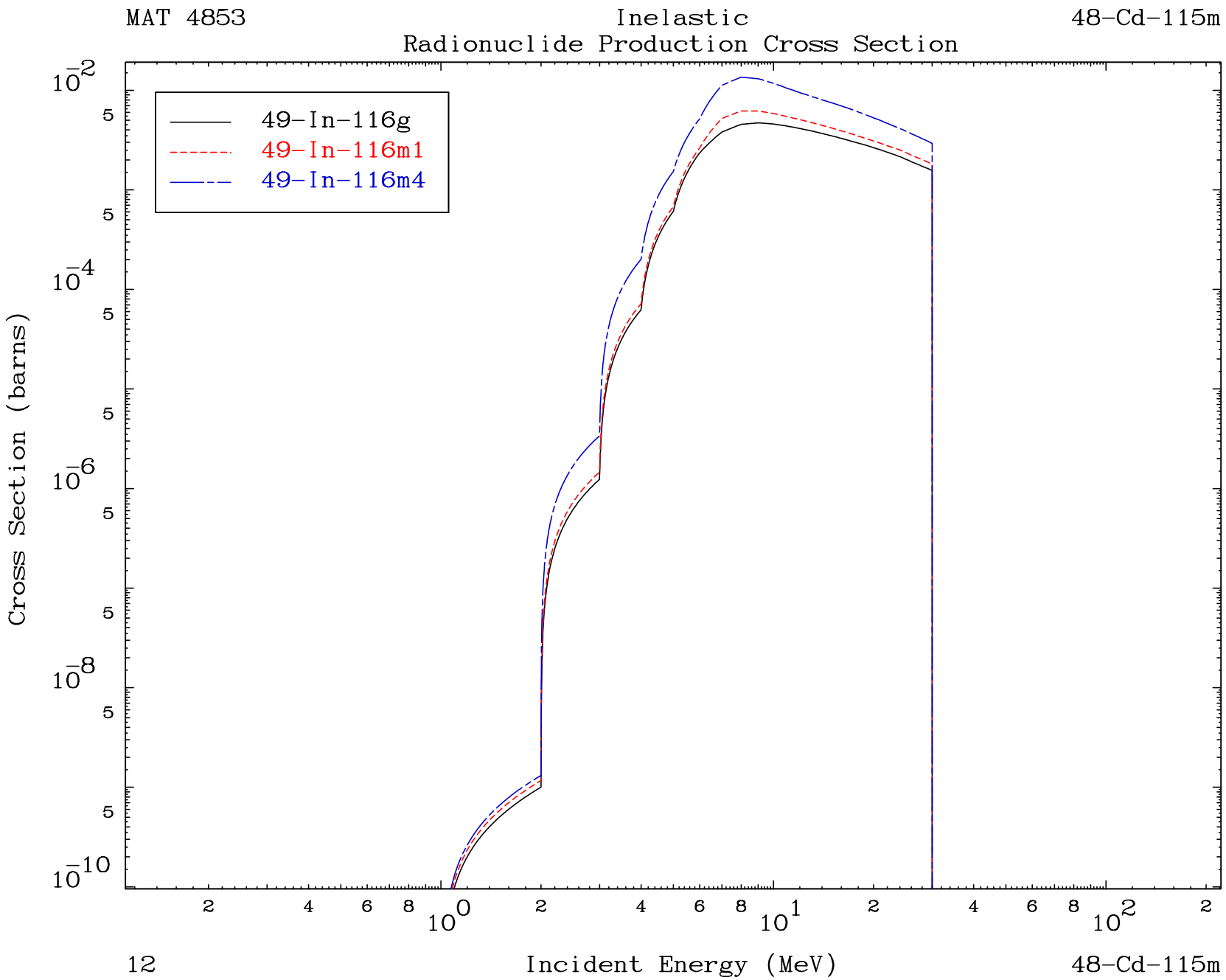

MAT 4853
(d,p) Levels
48-Cd-115m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
48-Cd-115m

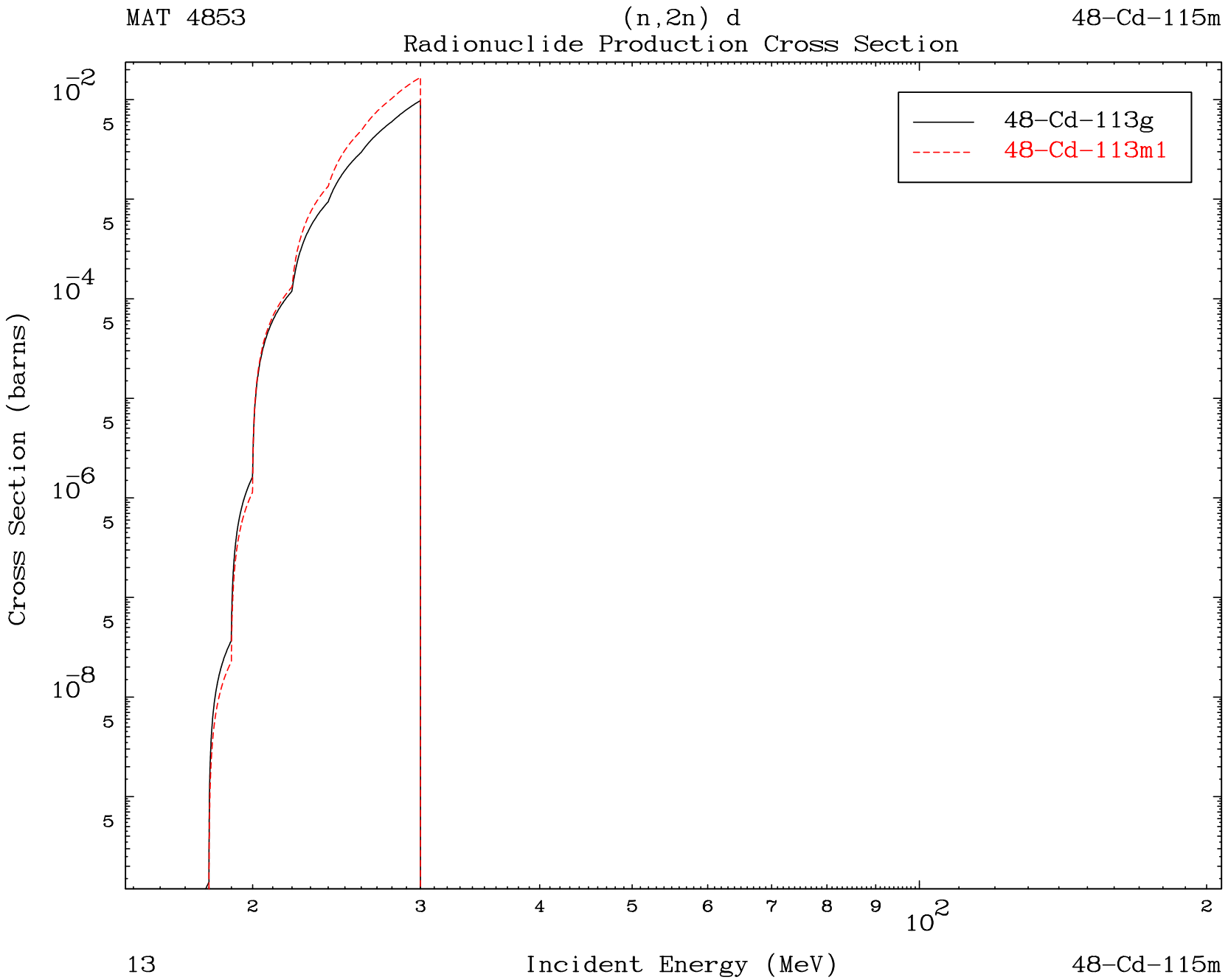

MAT 4853
(d,d) Levels
48-Cd-115m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
48-Cd-115m
8

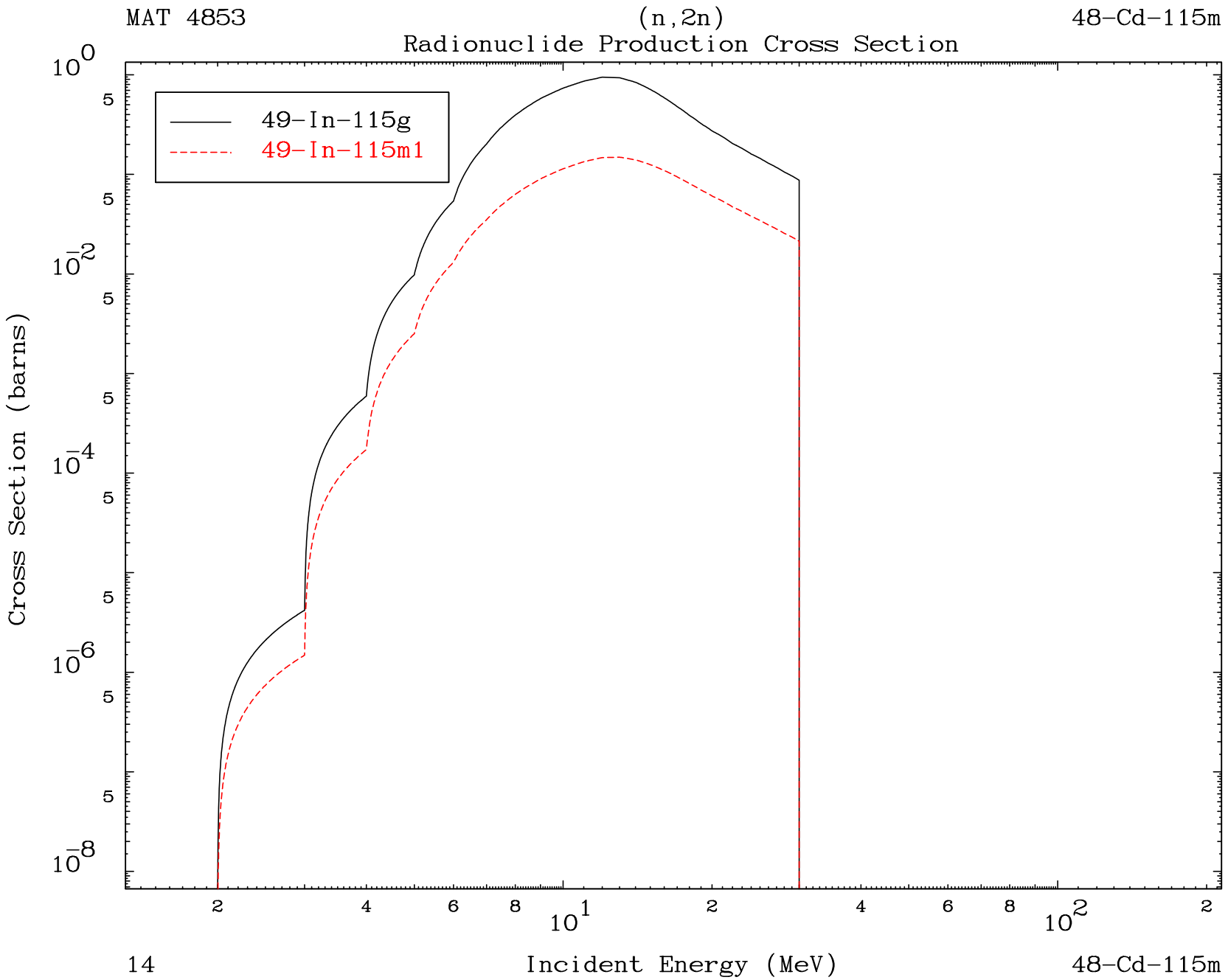

MAT 4853
(d,t) Levels
48-Cd-115m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
9
48-Cd-115m

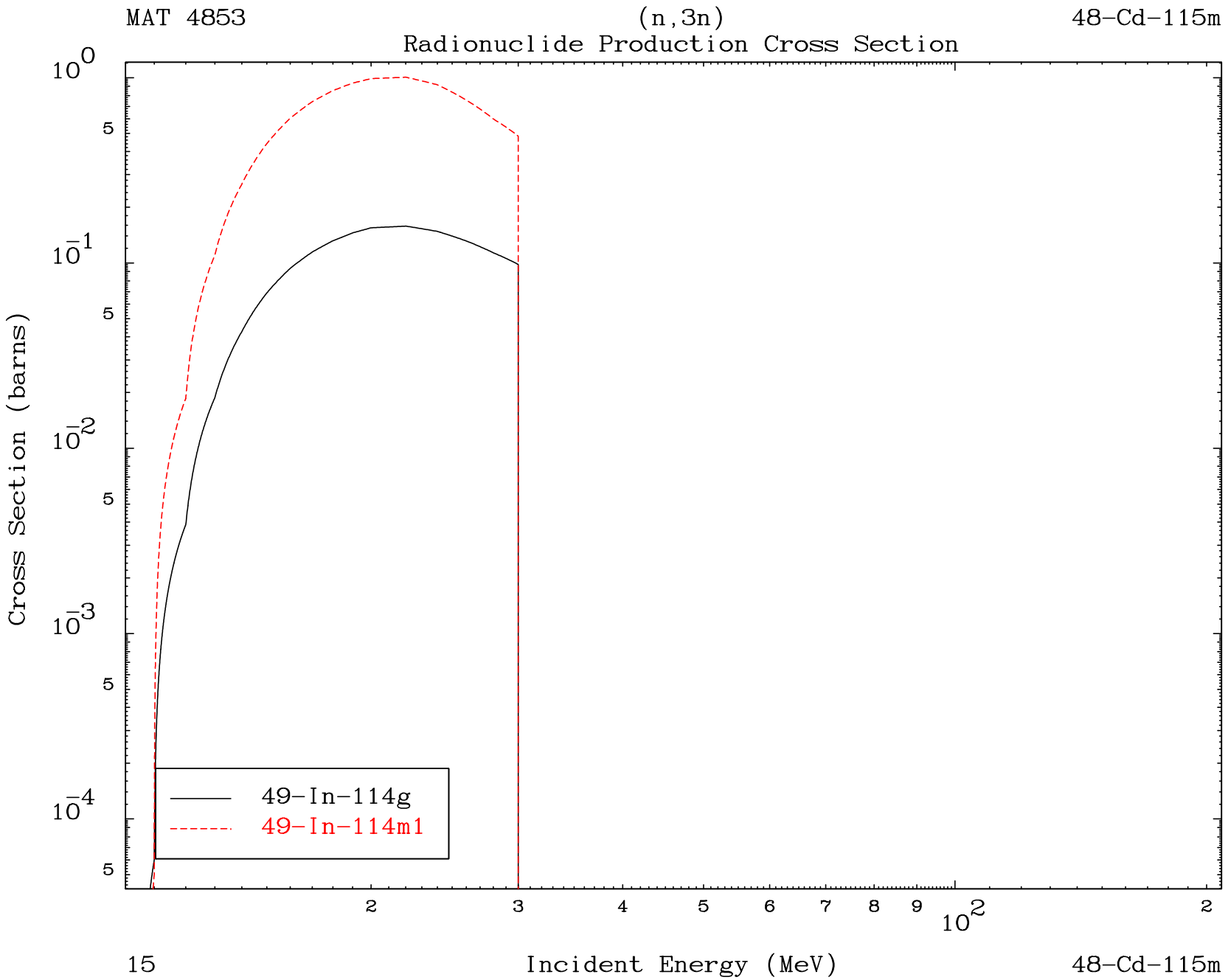

MAT 4853
(d,He3) Levels
48-Cd-115m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^1
10^2
2
3
4
6
7
8
9
Incident Energy (MeV)
48-Cd-115m

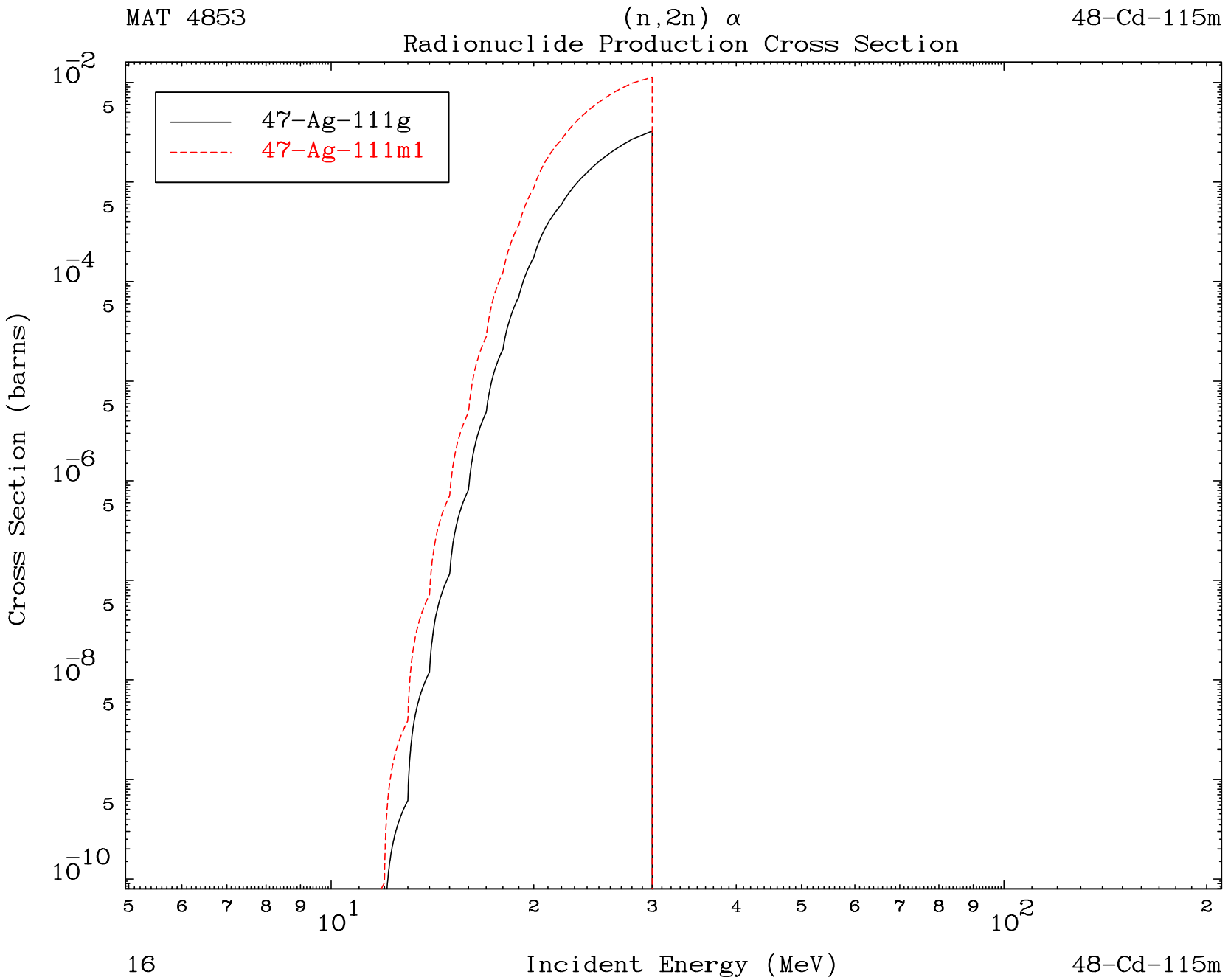

MAT 4853
(d,α) Levels
48-Cd-115m
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
48-Cd-115m

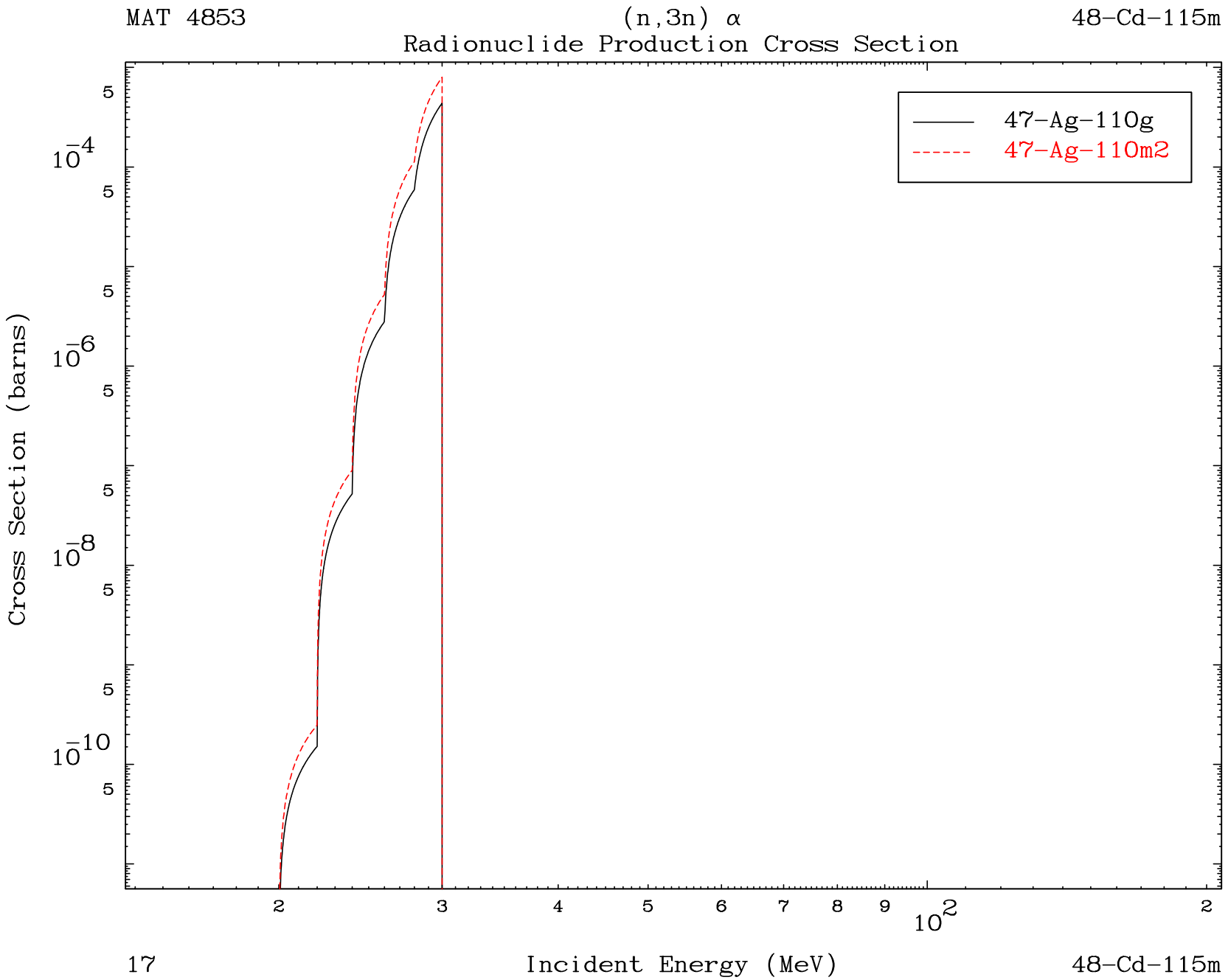

MAT 4853
Inelastic
48-Cd-115m
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
Incident Energy (MeV)
12
48-Cd-115m

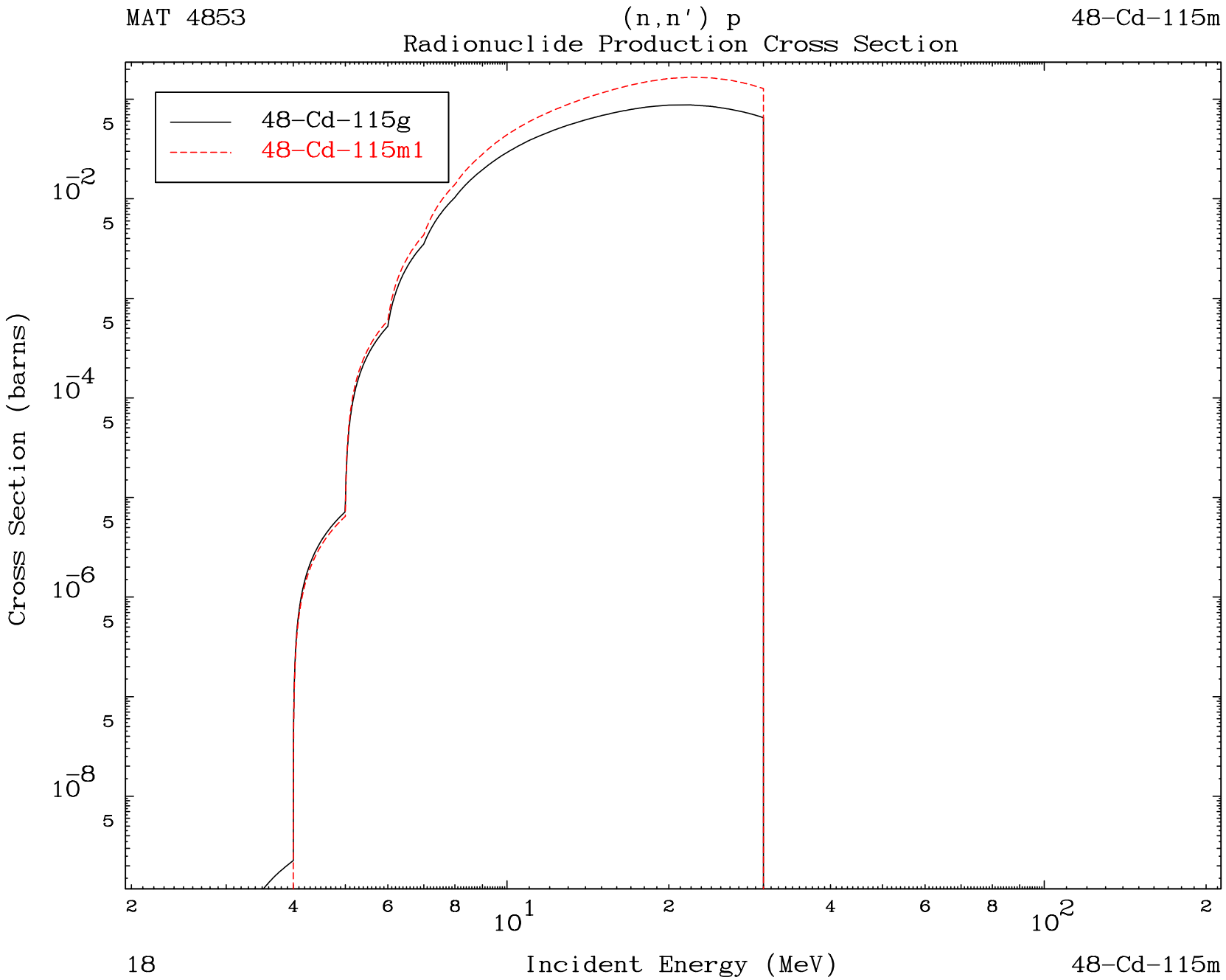

MAT 4853
(n,2n) d
48-Cd-115m
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
13
48-Cd-115m

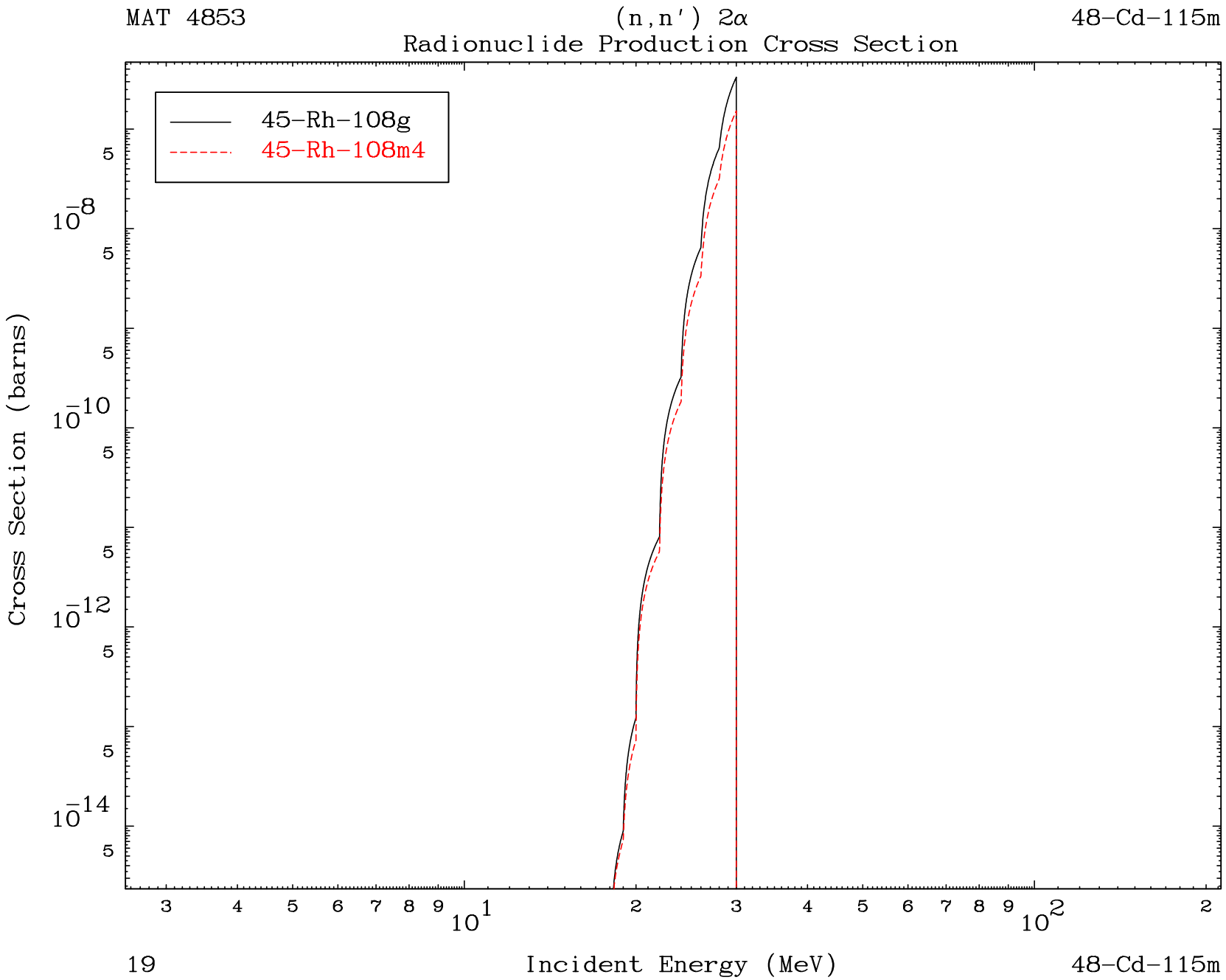

MAT 4853
(n,2n)
48-Cd-115m
Radionuclide Production Cross Section
49-In-115g
49-In-115m1
Cross Section (barns)
Incident Energy (MeV)
14
48-Cd-115m

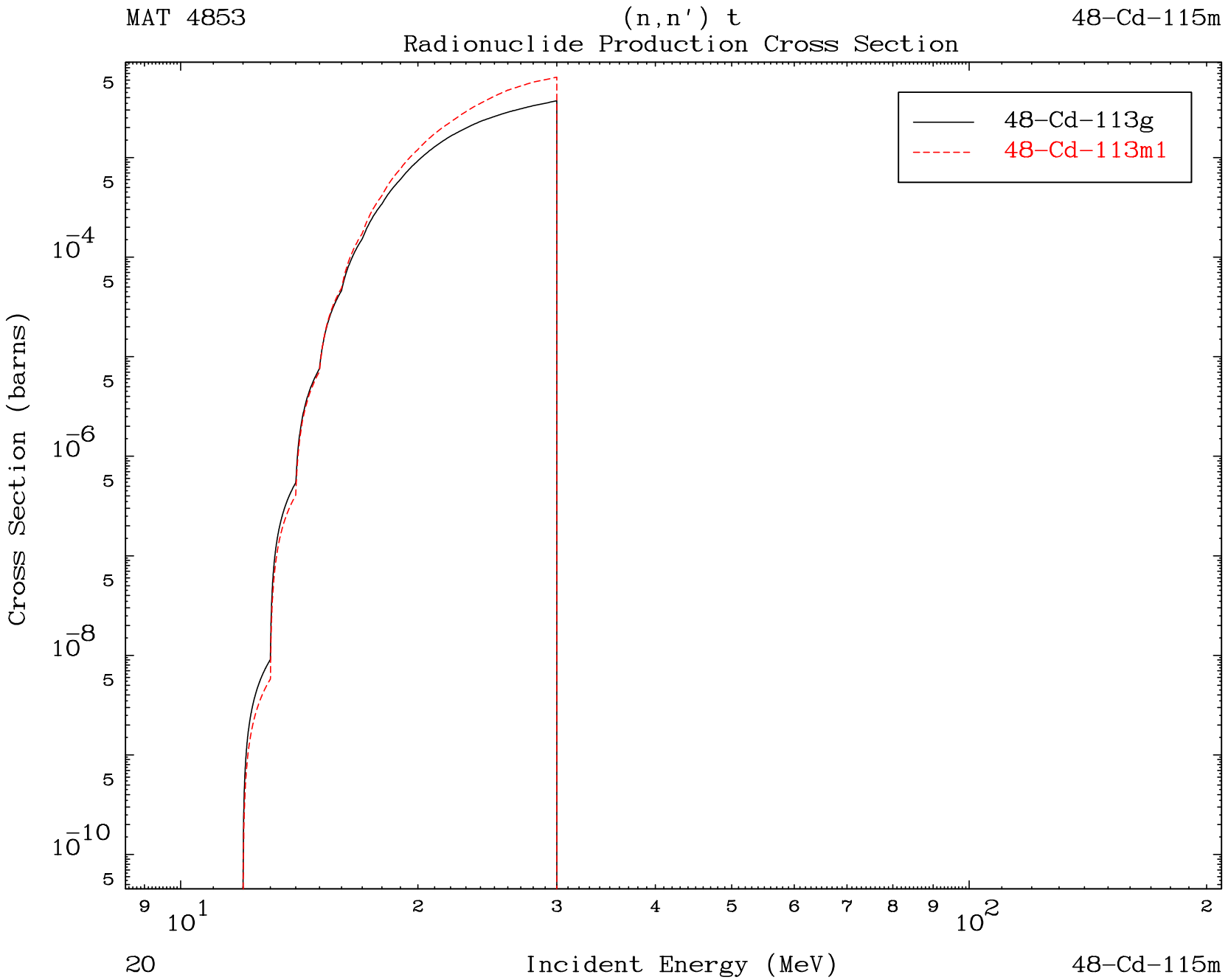

MAT 4853
(n,3n)
48-Cd-115m
Radionuclide Production Cross Section
Cross Section (barns)
10^0
5
10^-1
5
10^-2
5
10^-3
5
10^-4
5
49-In-114g
49-In-114m1
2
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
48-Cd-115m

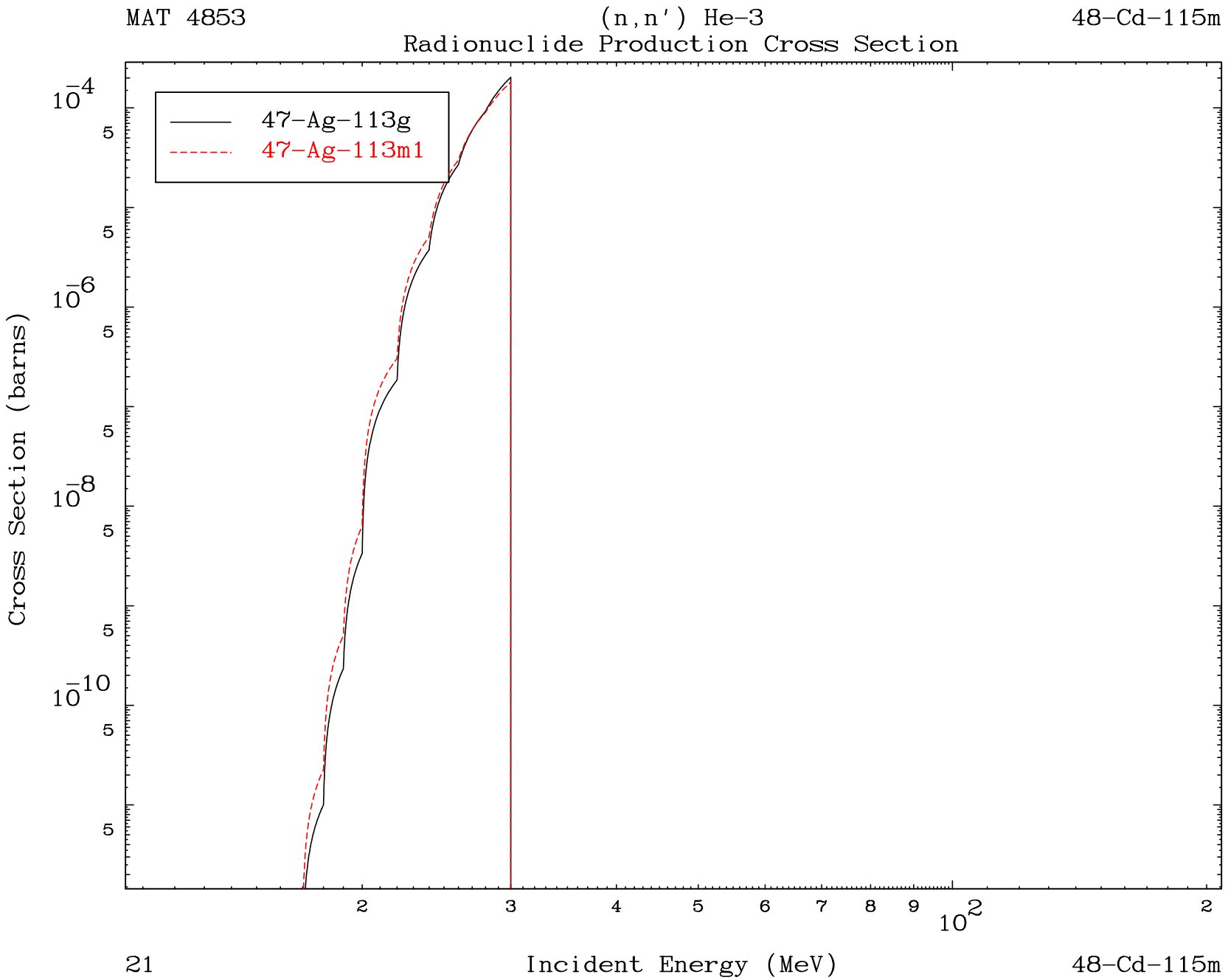

MAT 4853
(n,2n) α
48-Cd-115m
Radionuclide Production Cross Section
47-Ag-111g
47-Ag-111m1
Cross Section (barns)
Incident Energy (MeV)
16
48-Cd-115m

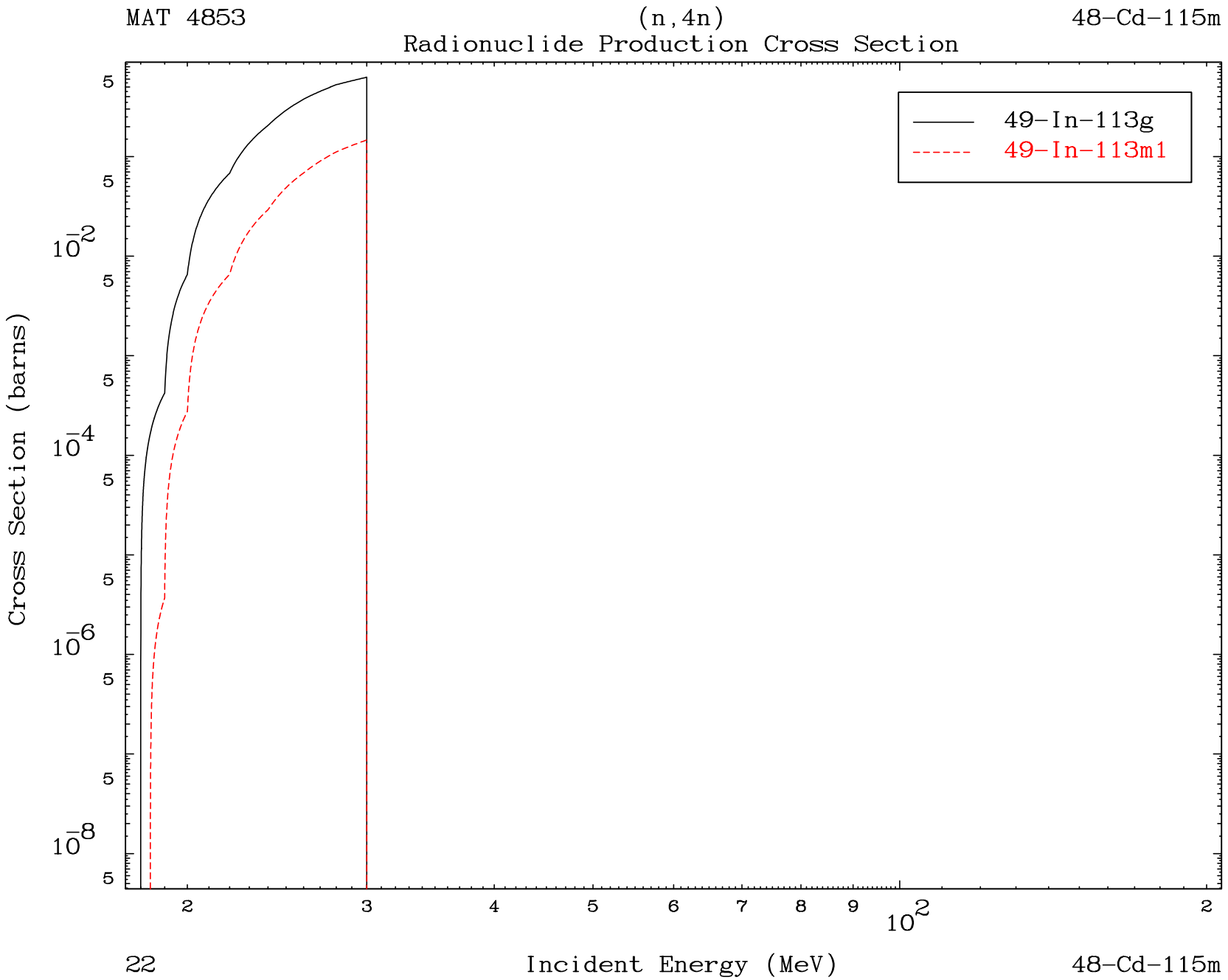

MAT 4853
(n,3n) α
48-Cd-115m
Radionuclide Production Cross Section
47-Ag-110g
47-Ag-110m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
48-Cd-115m

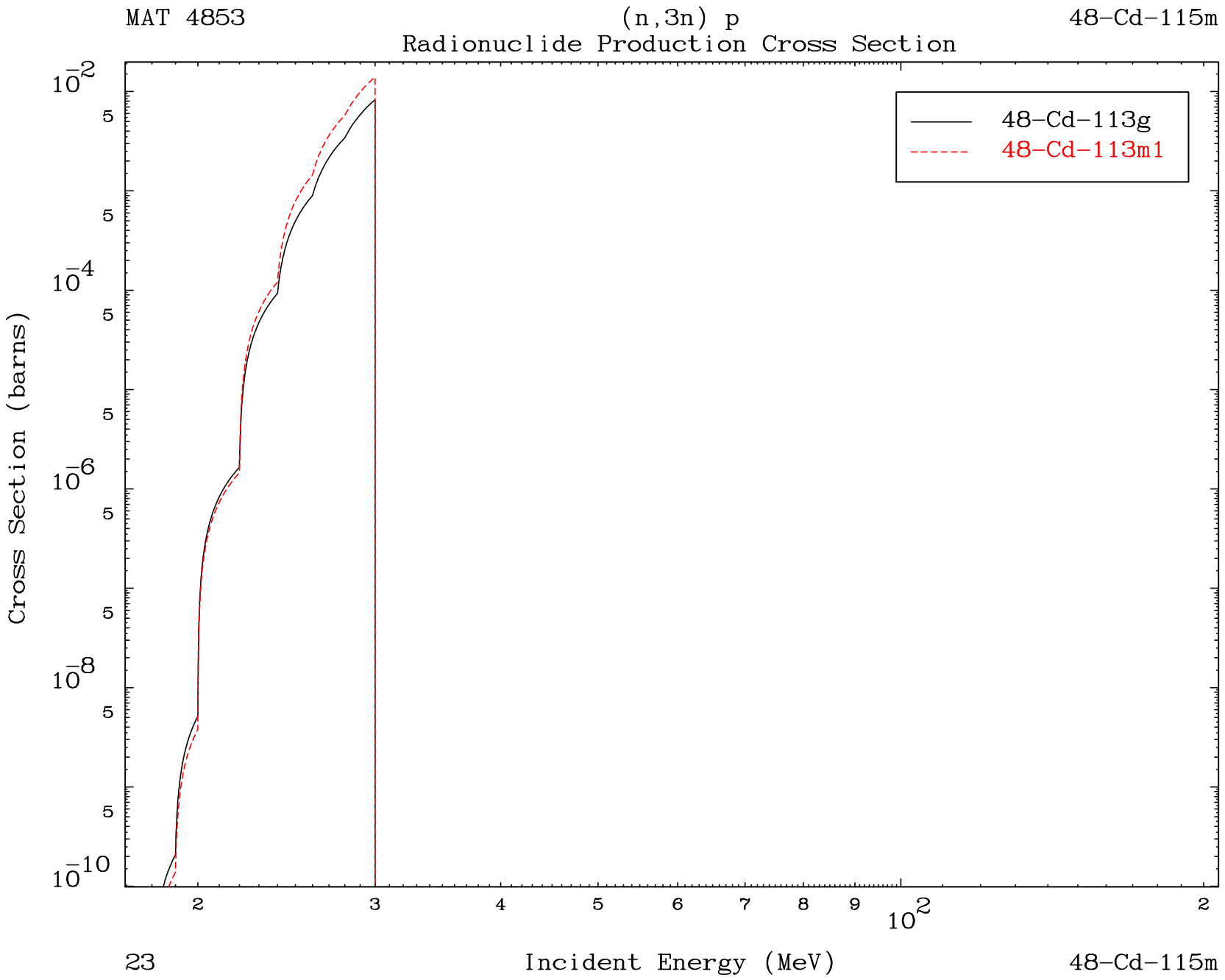

MAT 4853
(n,n') p
48-Cd-115m
Radionuclide Production Cross Section
48-Cd-115g
48-Cd-115m1
Cross Section (barns)
Incident Energy (MeV)
18
48-Cd-115m

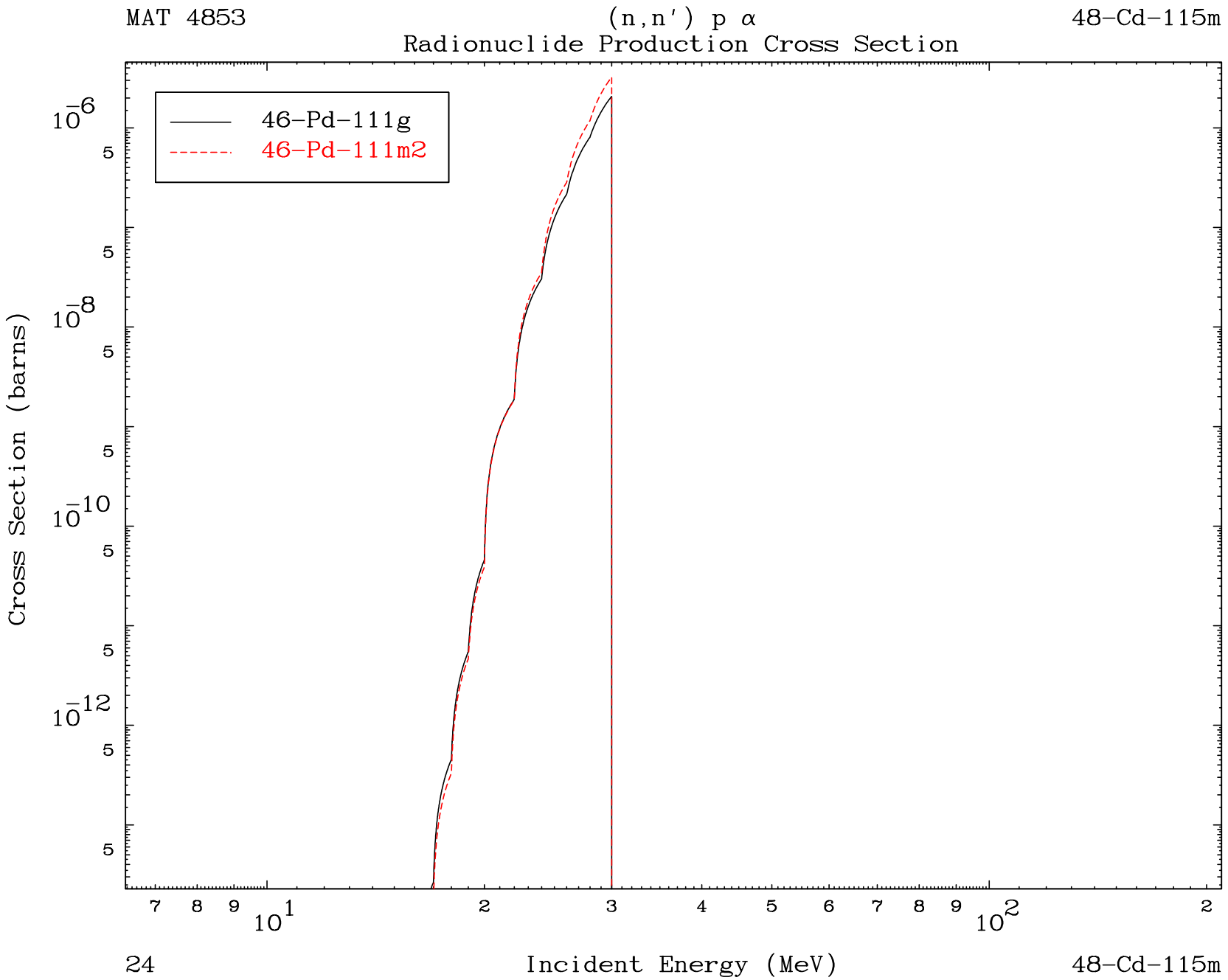

MAT 4853
(n,n') 2α
48-Cd-115m
Radionuclide Production Cross Section
45-Rh-108g
45-Rh-108m4
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3 4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
19
Incident Energy (MeV)
48-Cd-115m

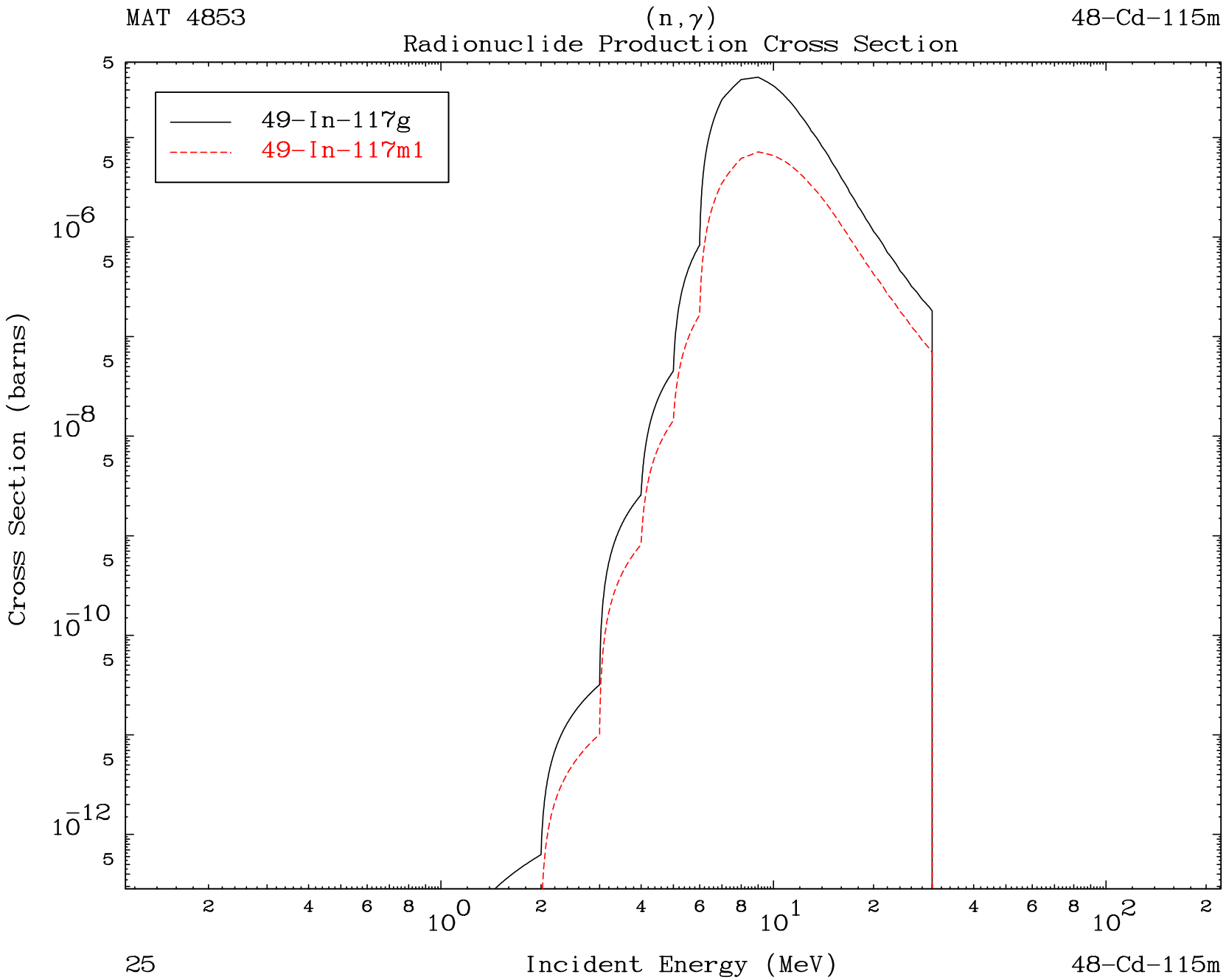

MAT 4853
(n,n') t
48-Cd-115m
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
20
48-Cd-115m

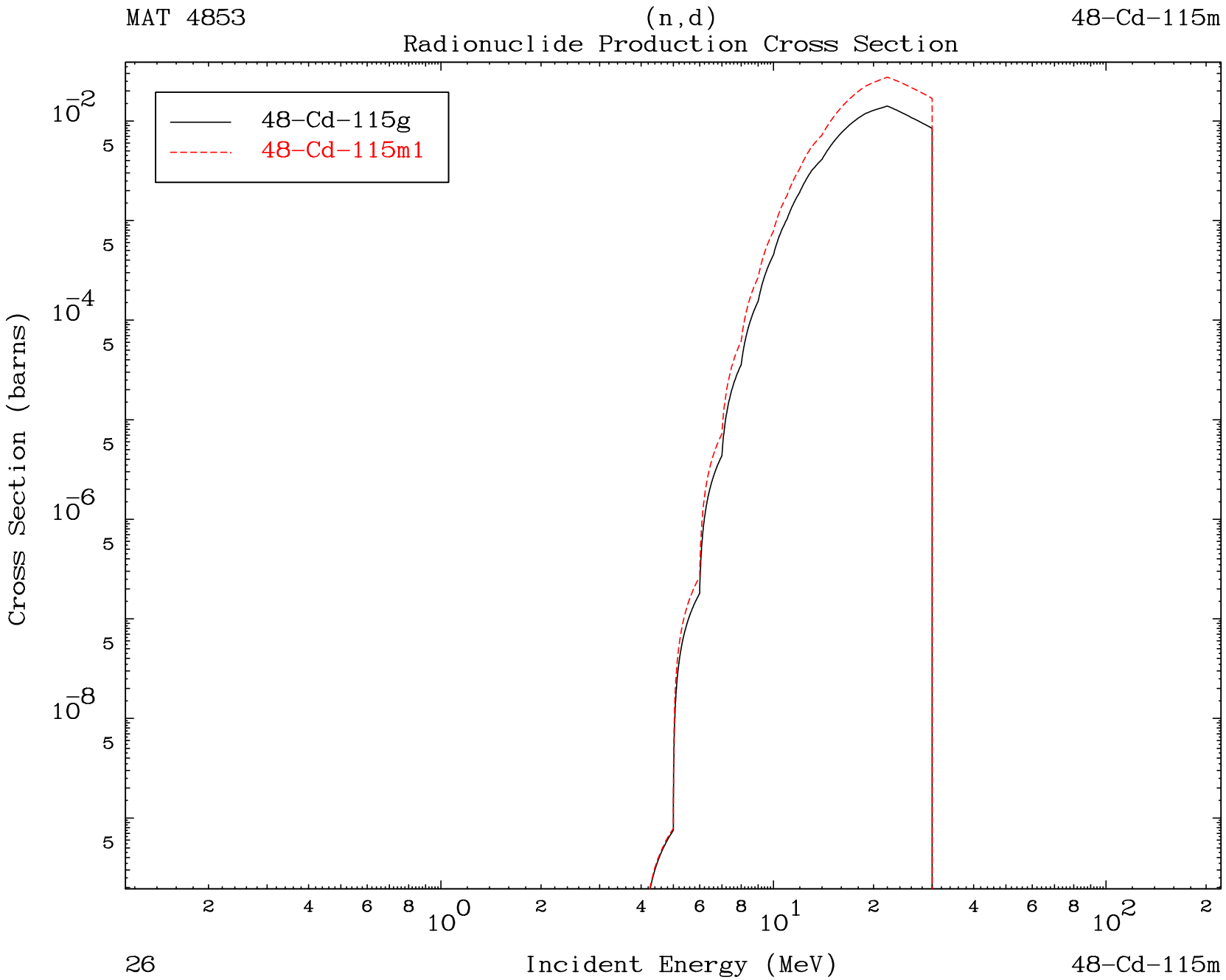

MAT 4853
(n,n') He-3
48-Cd-115m
Radionuclide Production Cross Section
47-Ag-113g
47-Ag-113m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
48-Cd-115m

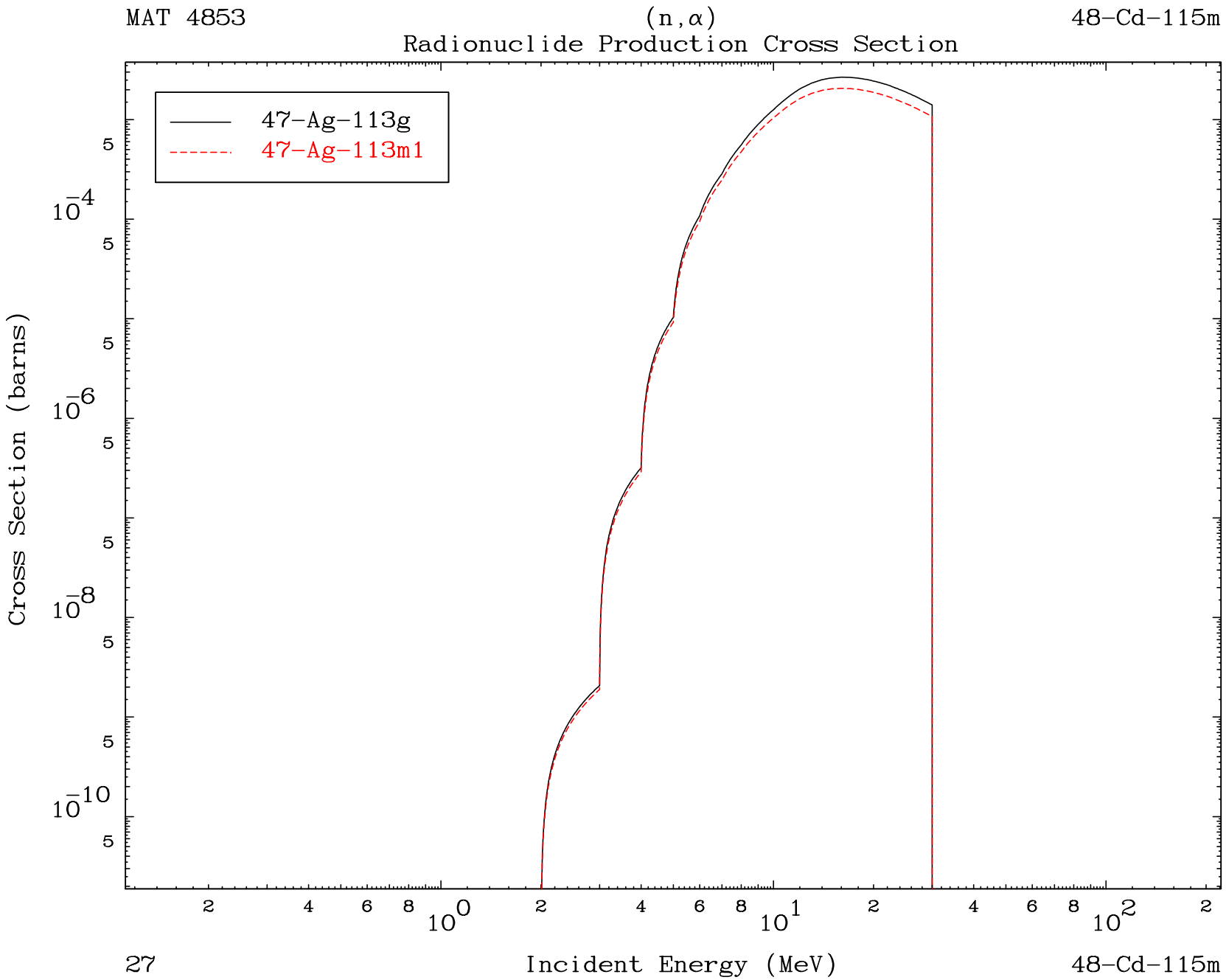

MAT 4853
(n,4n)
48-Cd-115m
Radionuclide Production Cross Section
49-In-113g
49-In-113m1
Cross Section (barns)
Incident Energy (MeV)
22
48-Cd-115m

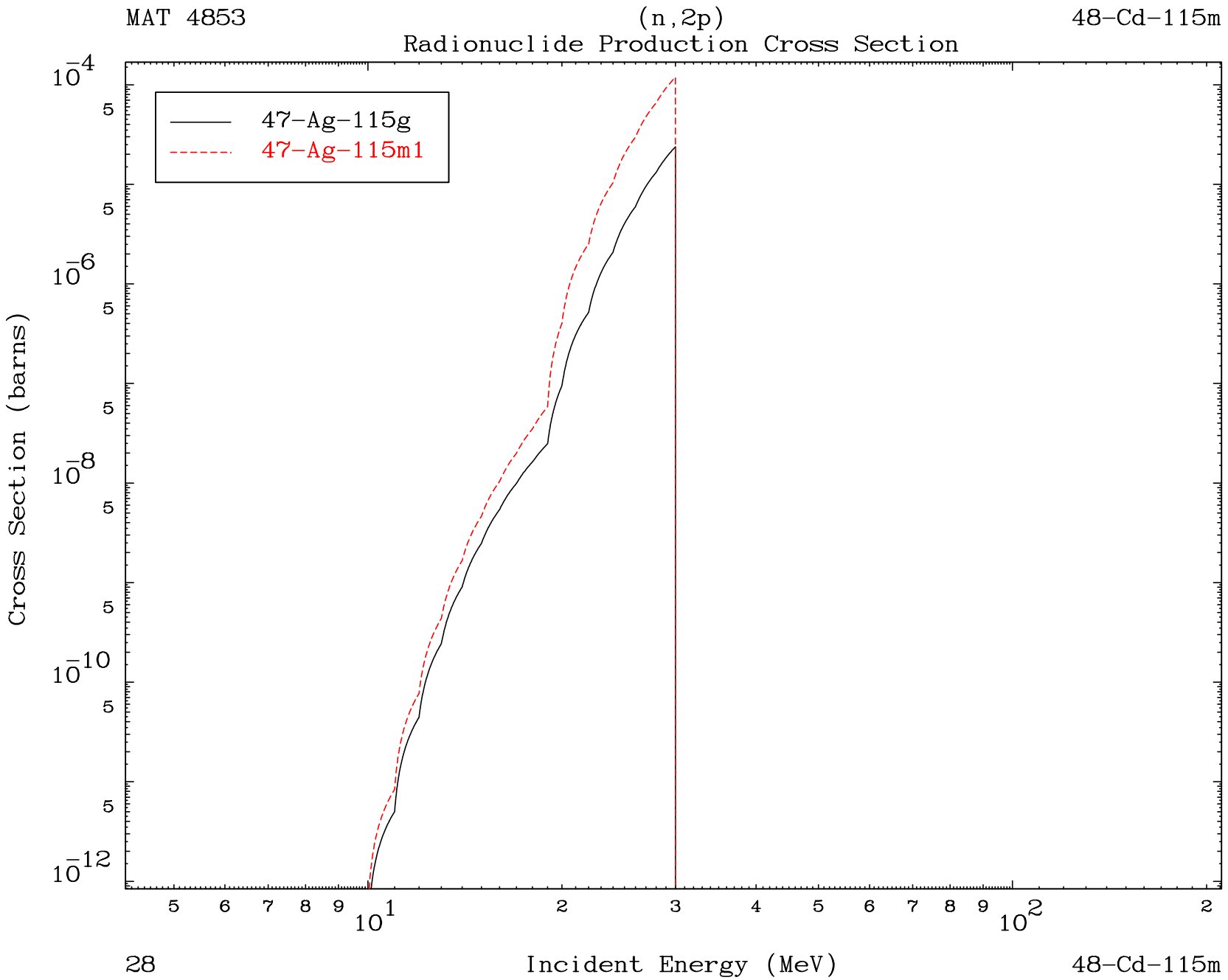

MAT 4853
(n,3n) p
48-Cd-115m
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
23
48-Cd-115m

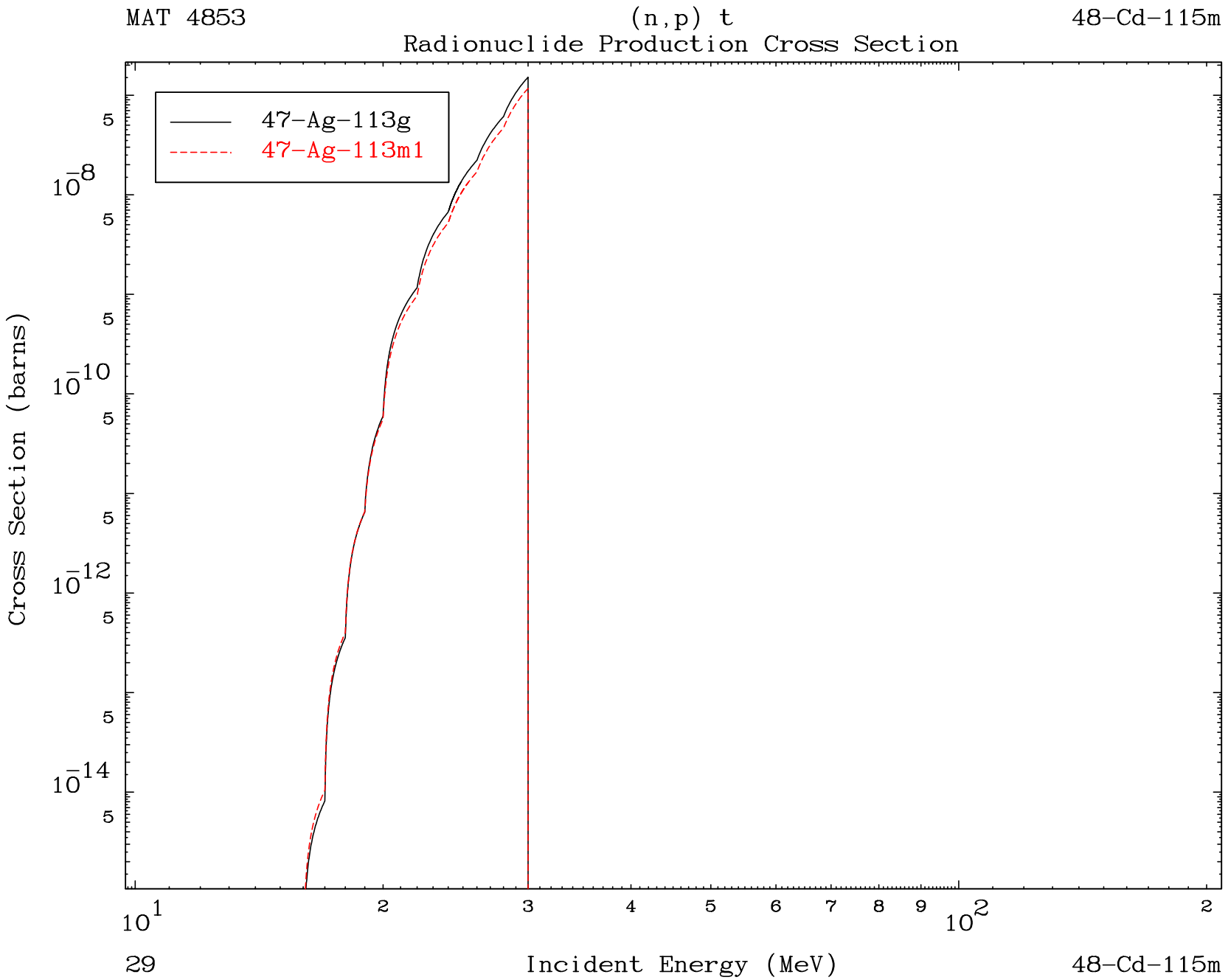

MAT 4853
(n,n') p α
48-Cd-115m
Radionuclide Production Cross Section
46-Pd-111g
46-Pd-111m2
Cross Section (barns)
Incident Energy (MeV)
24
48-Cd-115m

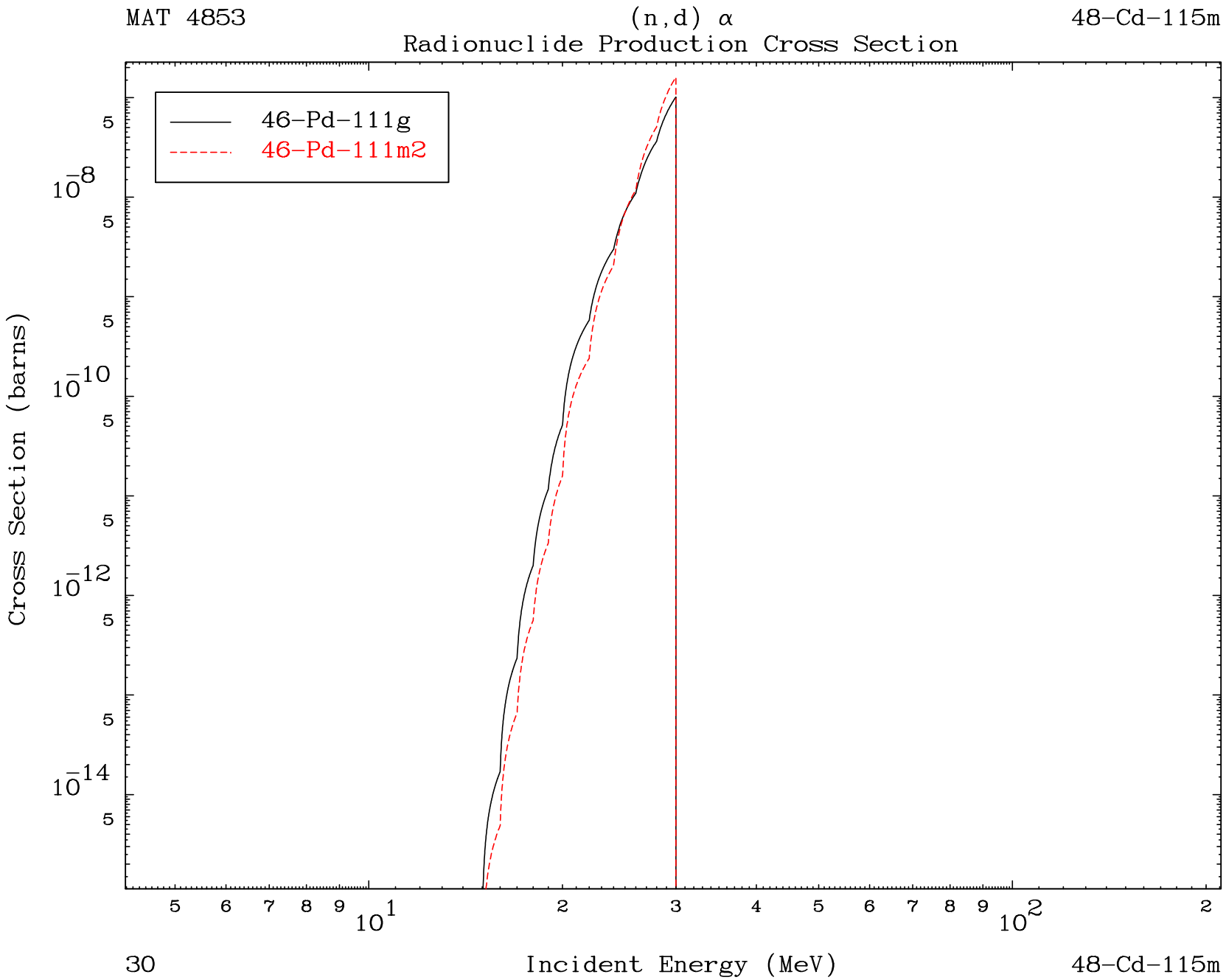

MAT 4853
(n,γ)
48-Cd-115m
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
25
48-Cd-115m


MAT 4853
(n,d)
48-Cd-115m
Radionuclide Production Cross Section
48-Cd-115g
48-Cd-115m1
Cross Section (barns)
Incident Energy (MeV)
26
48-Cd-115m


MAT 4853
(n,α)
48-Cd-115m
Radionuclide Production Cross Section
47-Ag-113g
47-Ag-113m1
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
27
48-Cd-115m


MAT 4853
(n,2p)
48-Cd-115m
Radionuclide Production Cross Section
47-Ag-115g
47-Ag-115m1
Cross Section (barns)
Incident Energy (MeV)
28
48-Cd-115m


MAT 4853
(n,p) t
48-Cd-115m
Radionuclide Production Cross Section
47-Ag-113g
47-Ag-113m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
101
2
3
4
5
6
7
8
9
102
2
29
Incident Energy (MeV)
48-Cd-115m


MAT 4853
(n,d) α
48-Cd-115m
Radionuclide Production Cross Section
46-Pd-111g
46-Pd-111m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
10^1
2
3
4
5
6
7
8
9
10^2
2
30
Incident Energy (MeV)
48-Cd-115m