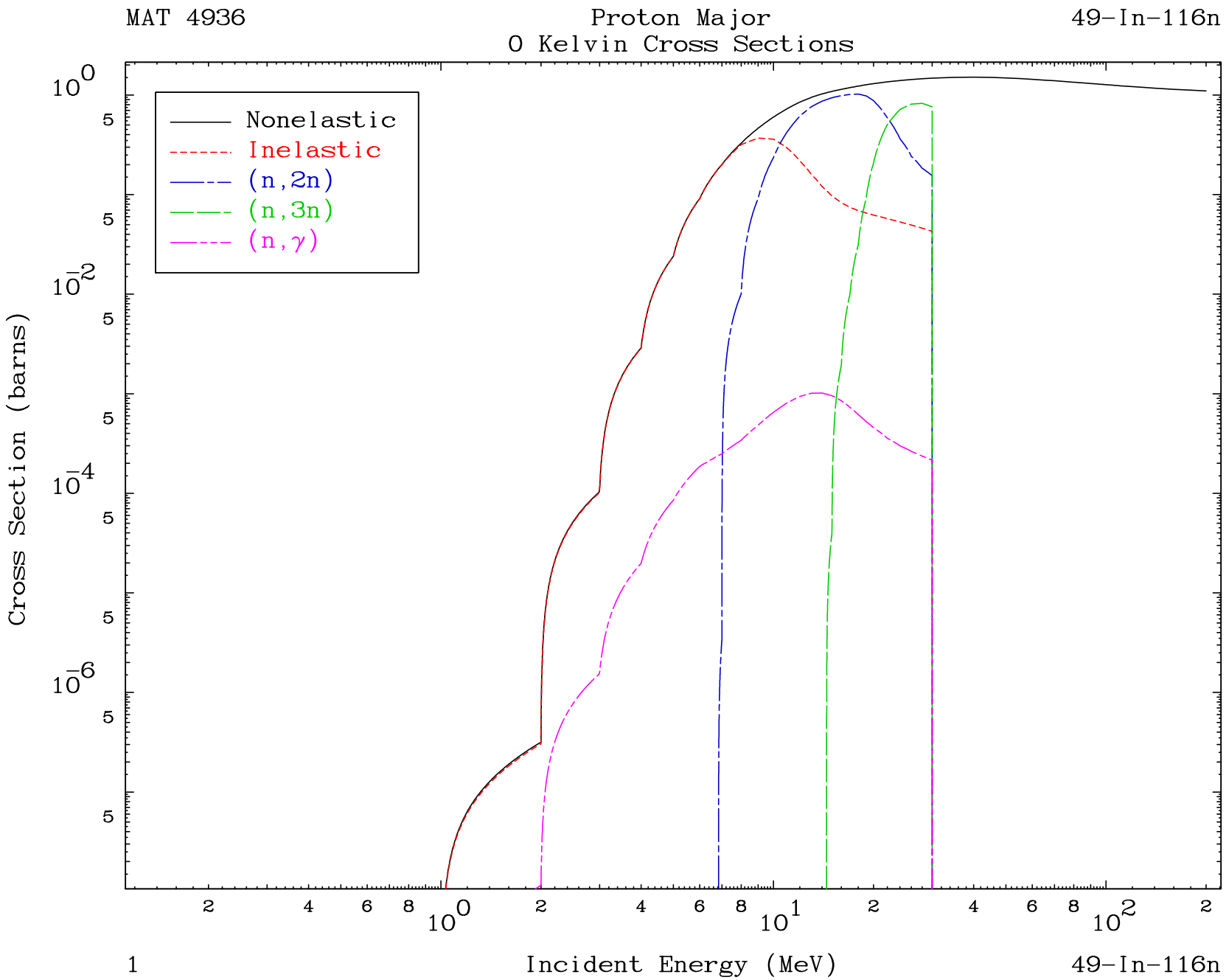
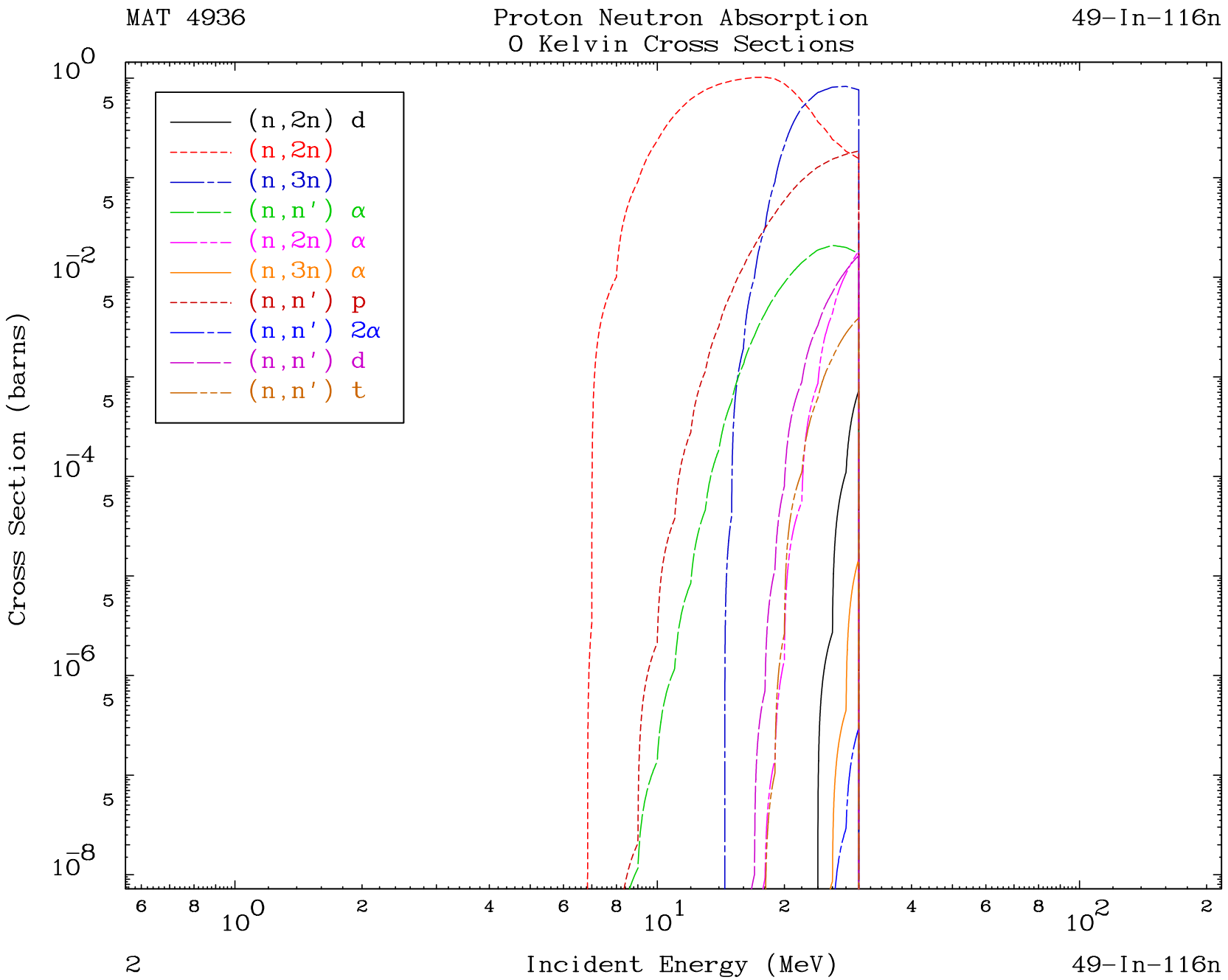
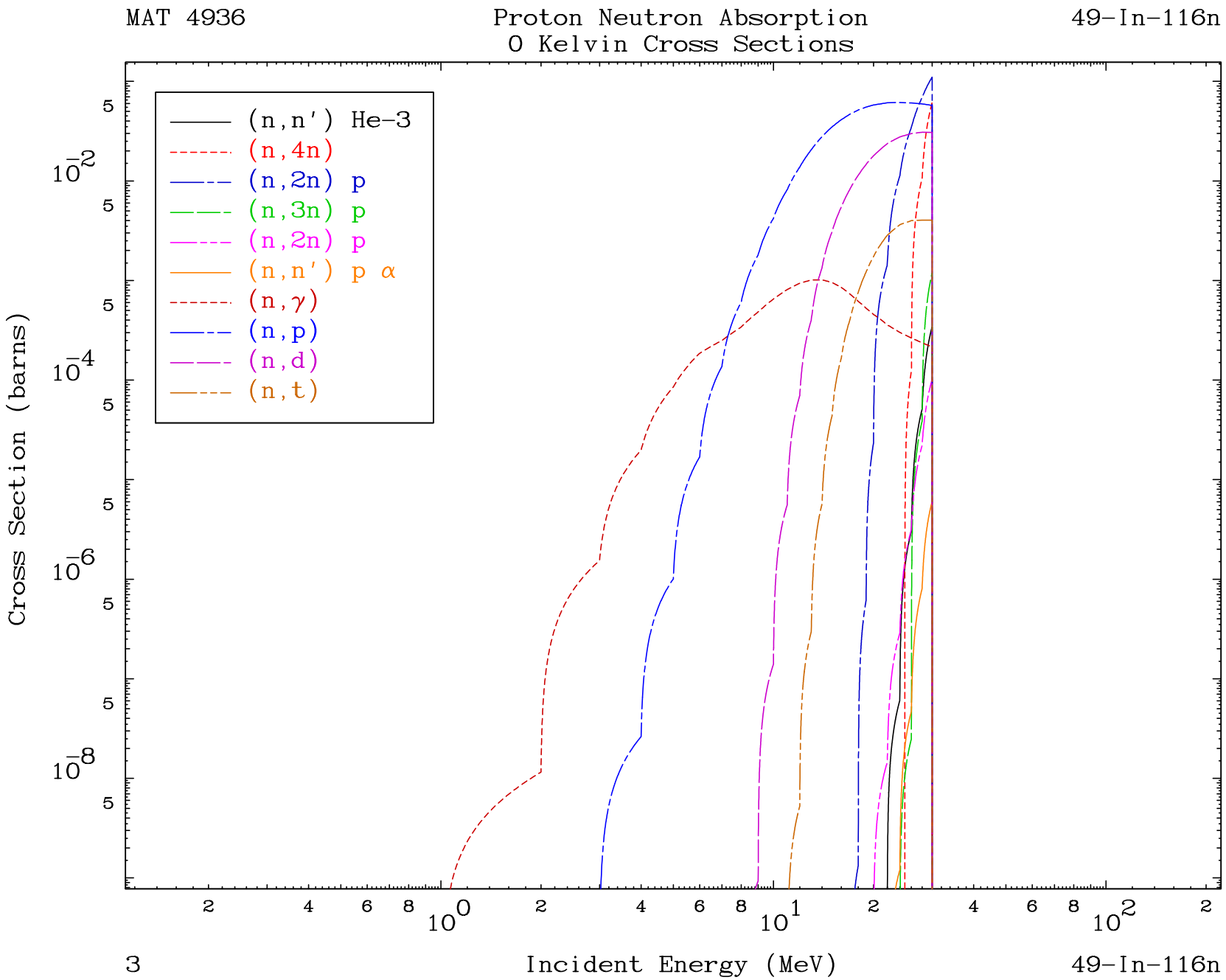
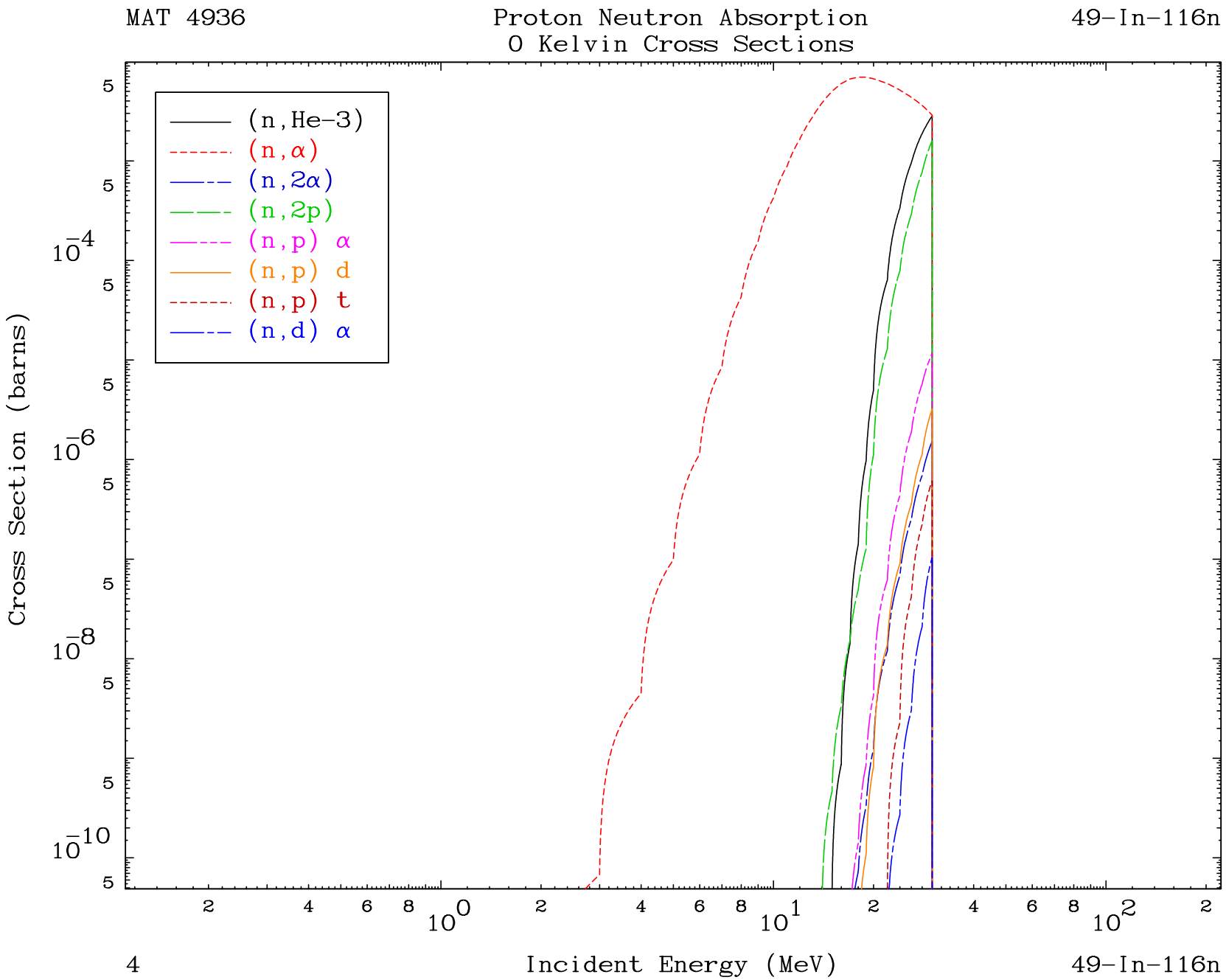
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

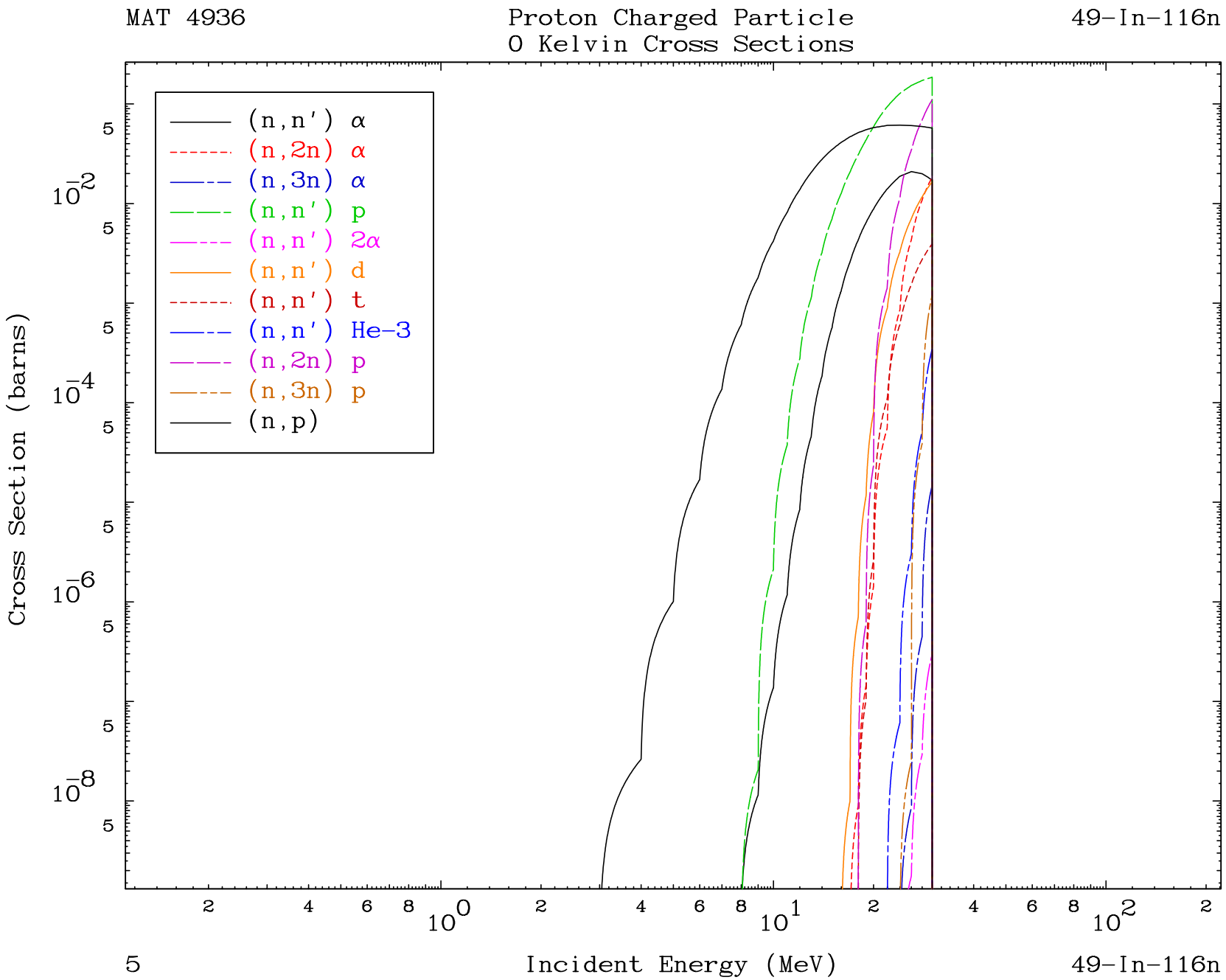
Press Mouse Button to Start

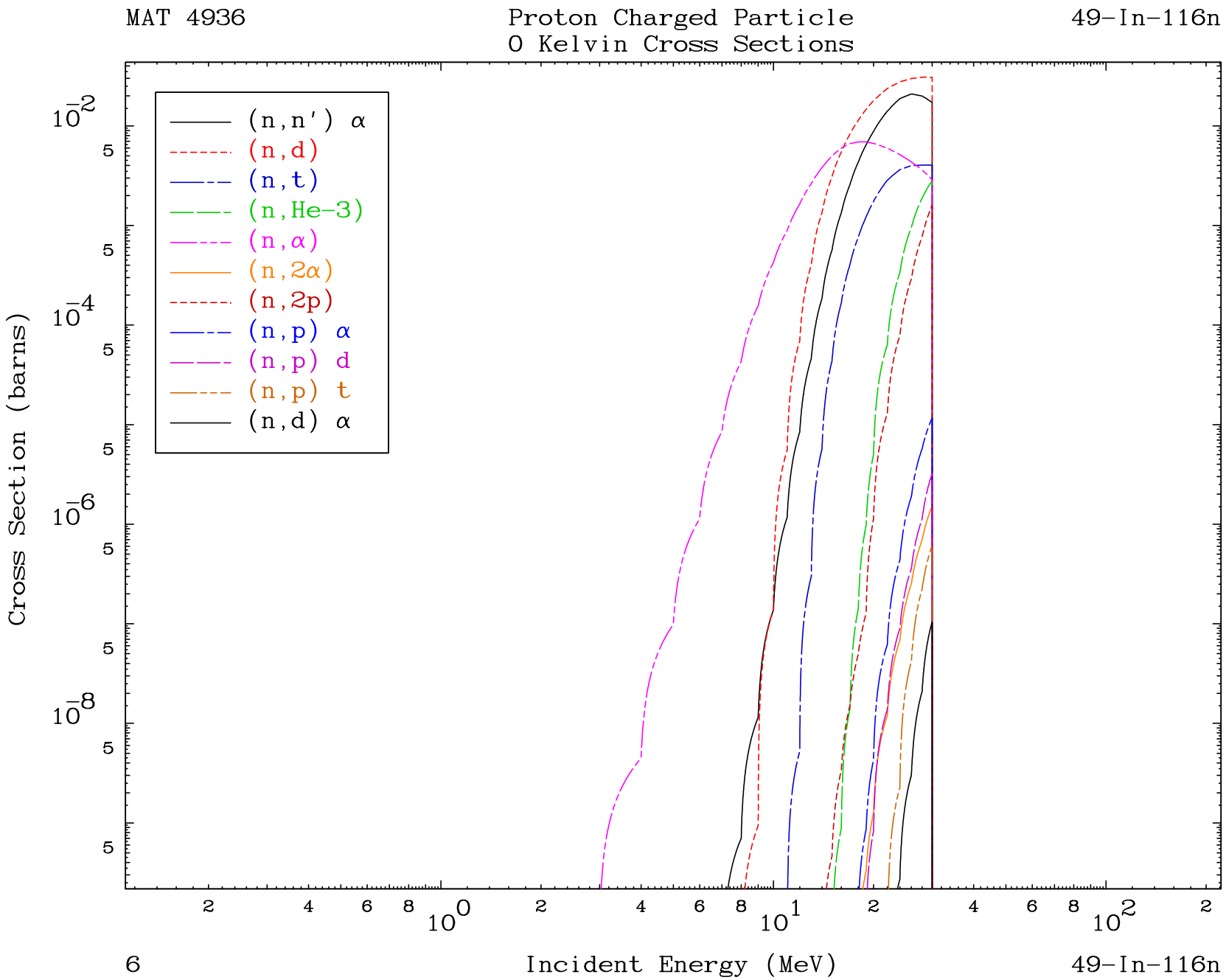

MAT 4936
Proton Major
49-In-116n
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
49-In-116n
1

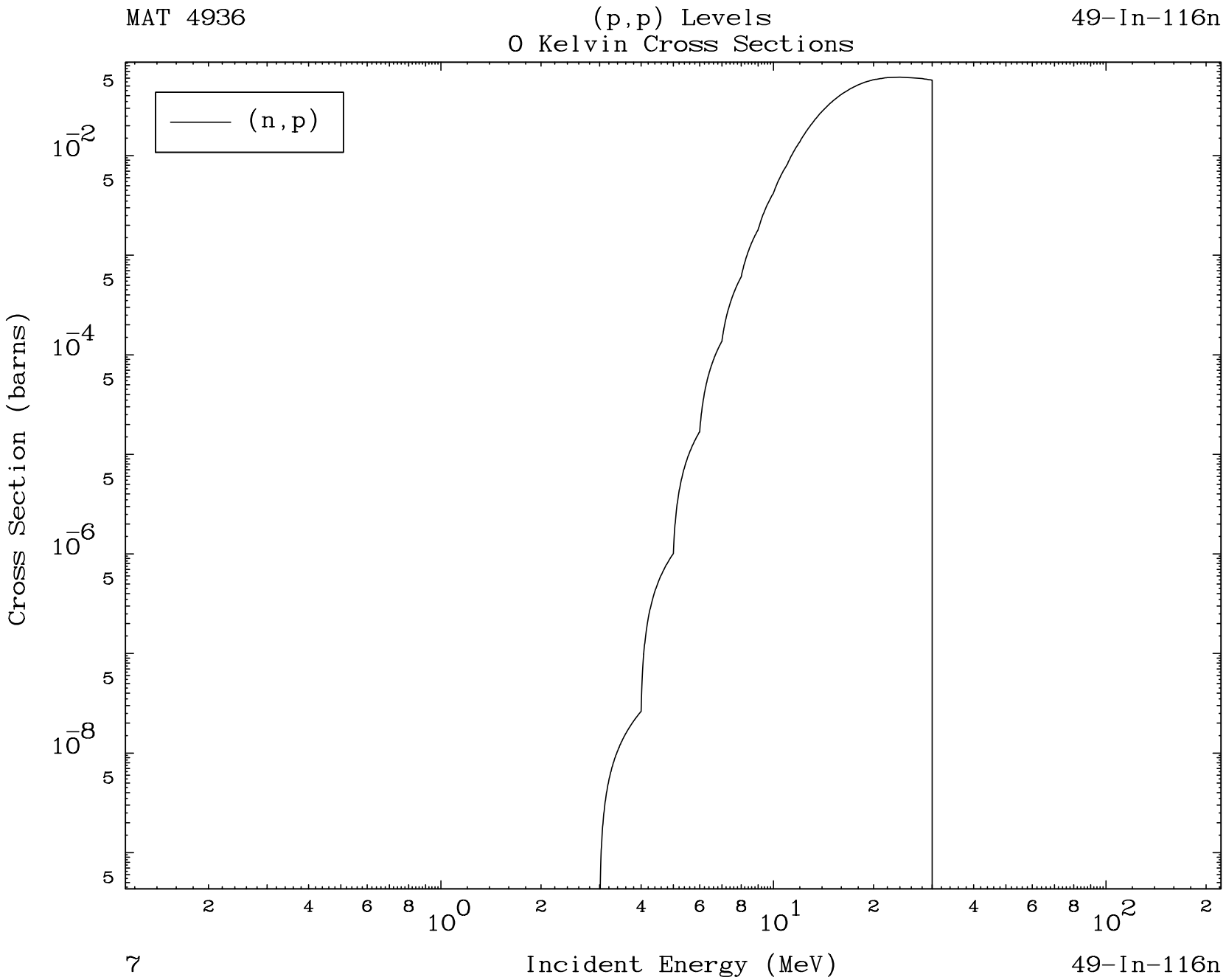

MAT 4936
Proton Neutron Absorption
0 Kelvin Cross Sections
49-In-116n
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
49-In-116n

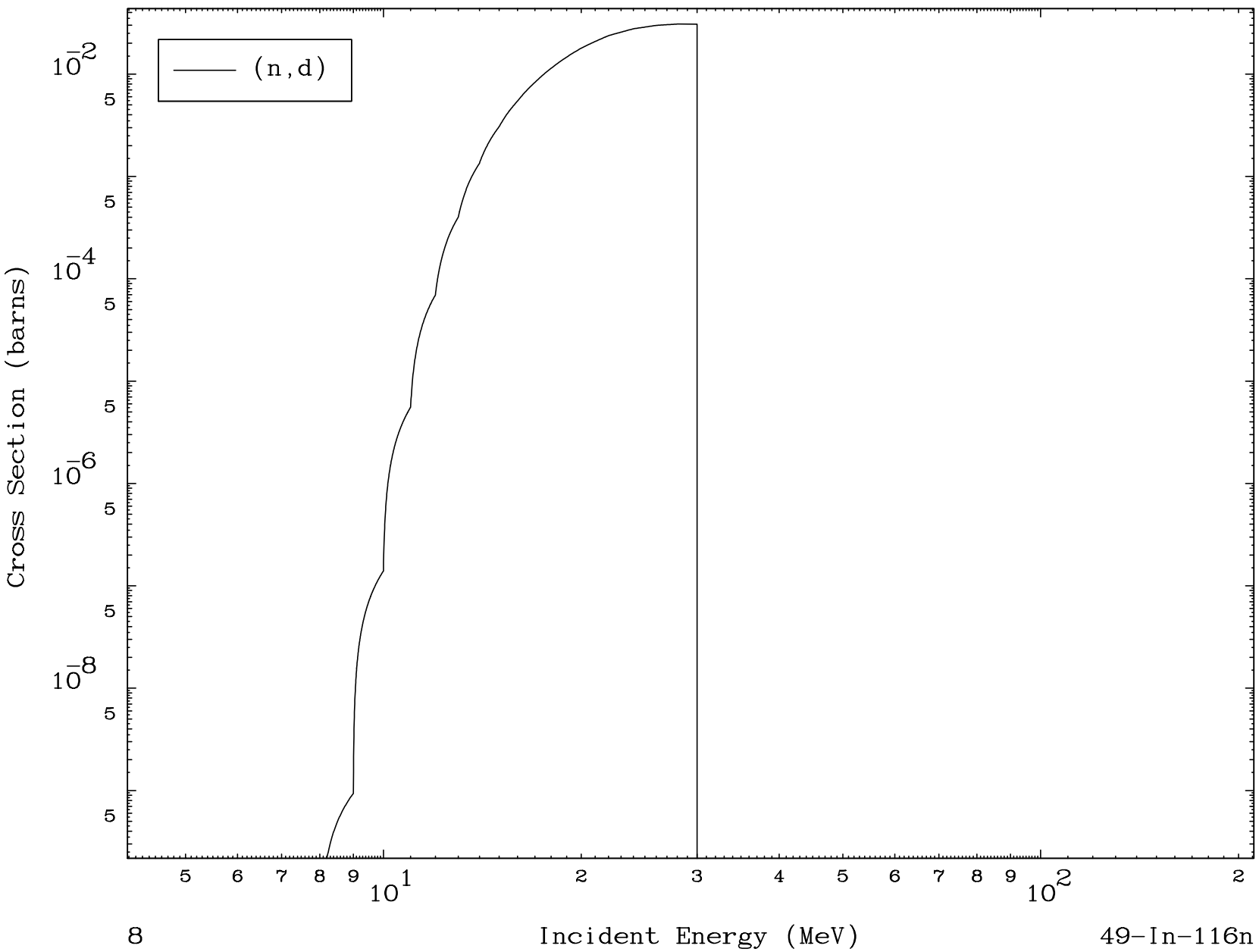

MAT 4936
Proton Neutron Absorption
0 Kelvin Cross Sections
49-In-116n
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
49-In-116n

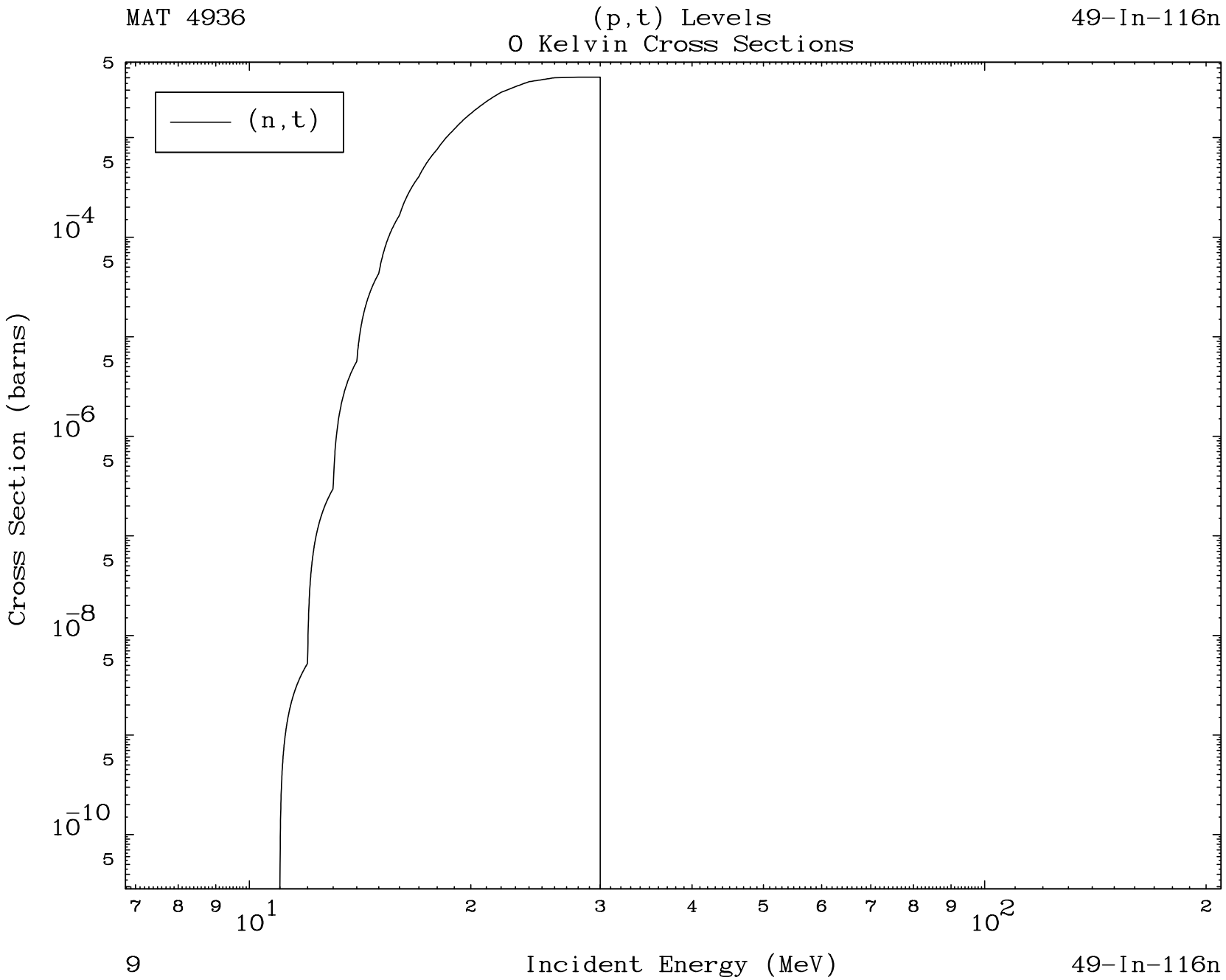

MAT 4936
Proton Neutron Absorption
0 Kelvin Cross Sections
49-In-116n
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
49-In-116n
4

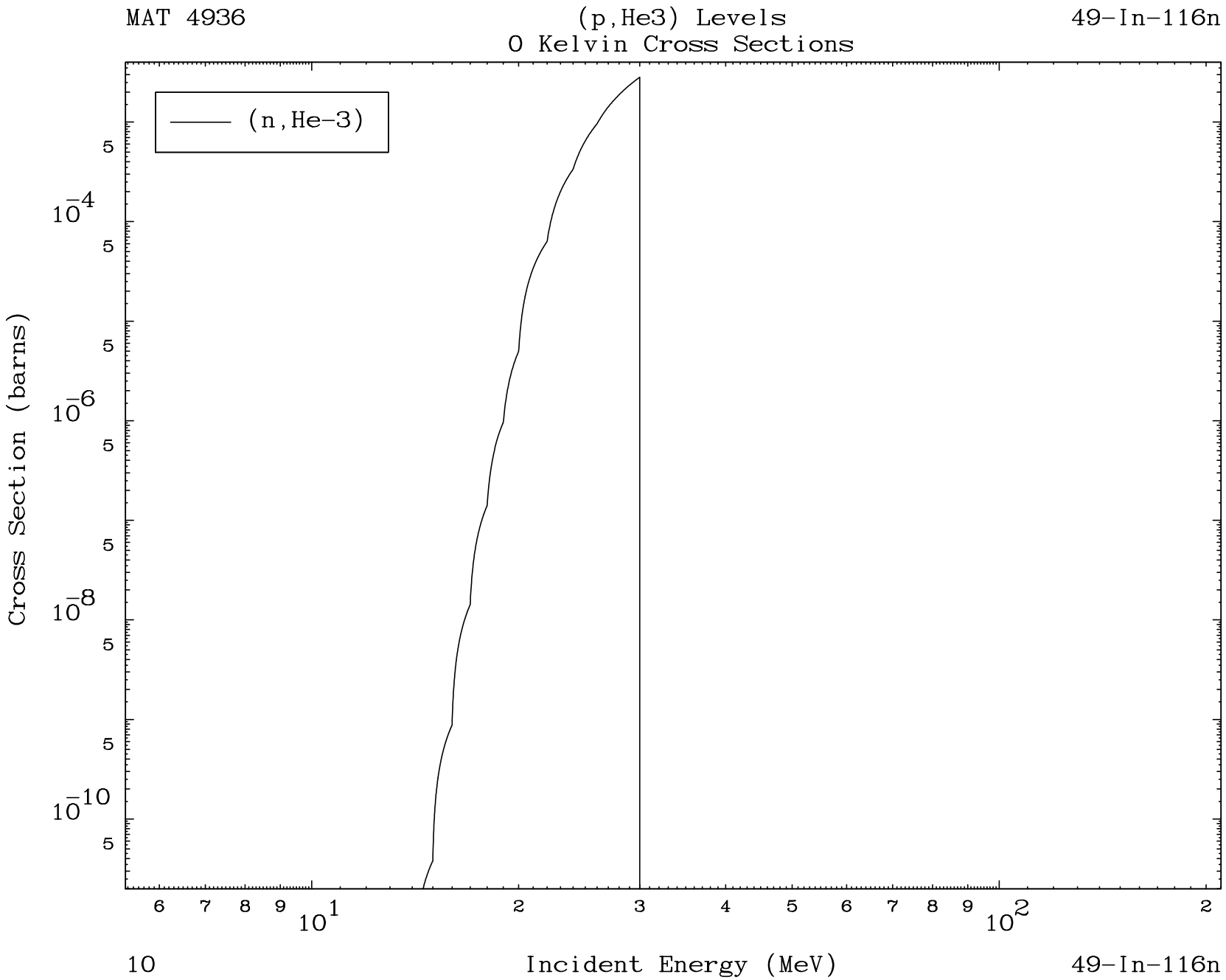

MAT 4936
Proton Charged Particle
0 Kelvin Cross Sections
49-In-116n
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
49-In-116n

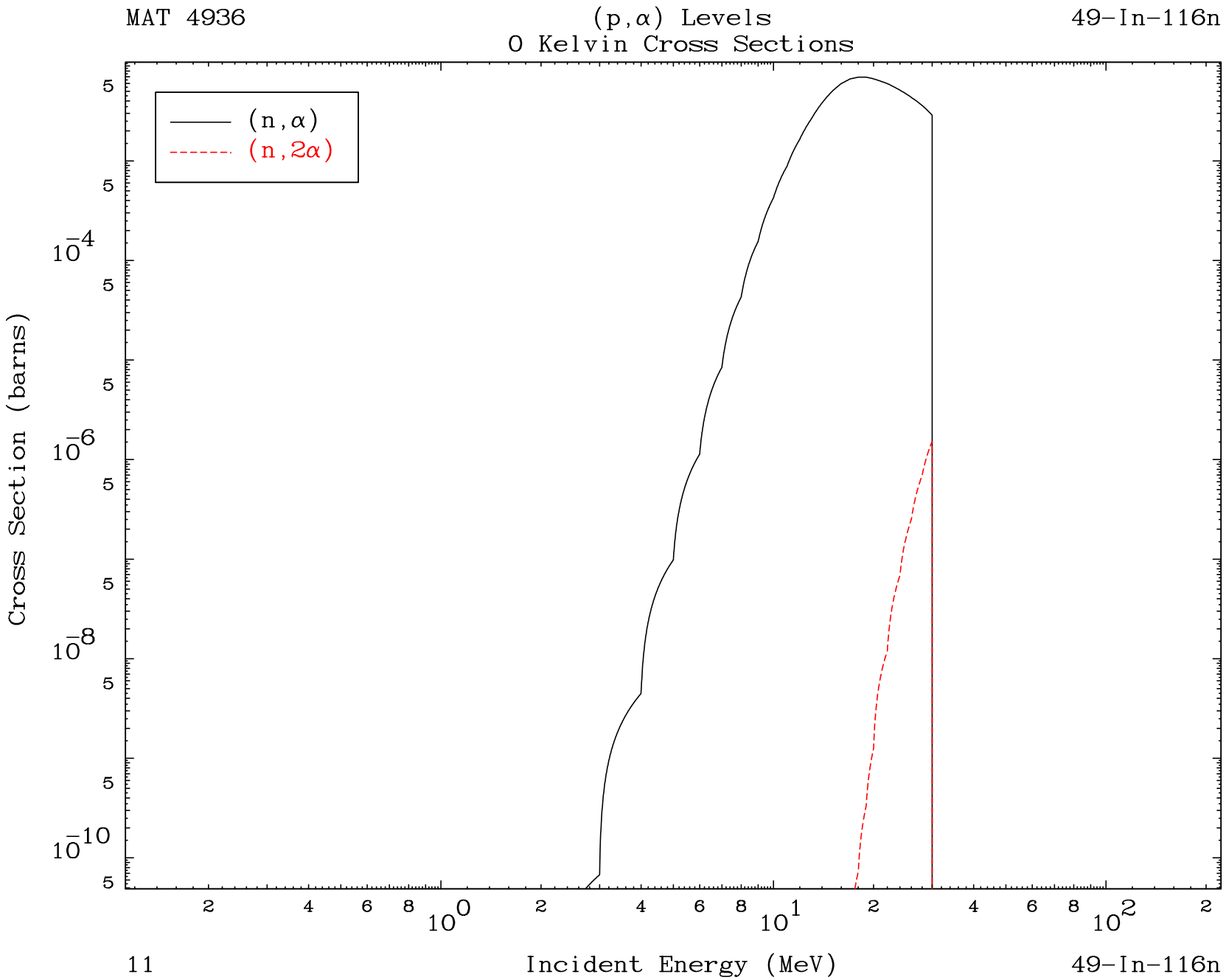

MAT 4936
Proton Charged Particle
0 Kelvin Cross Sections
49-In-116n
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
49-In-116n

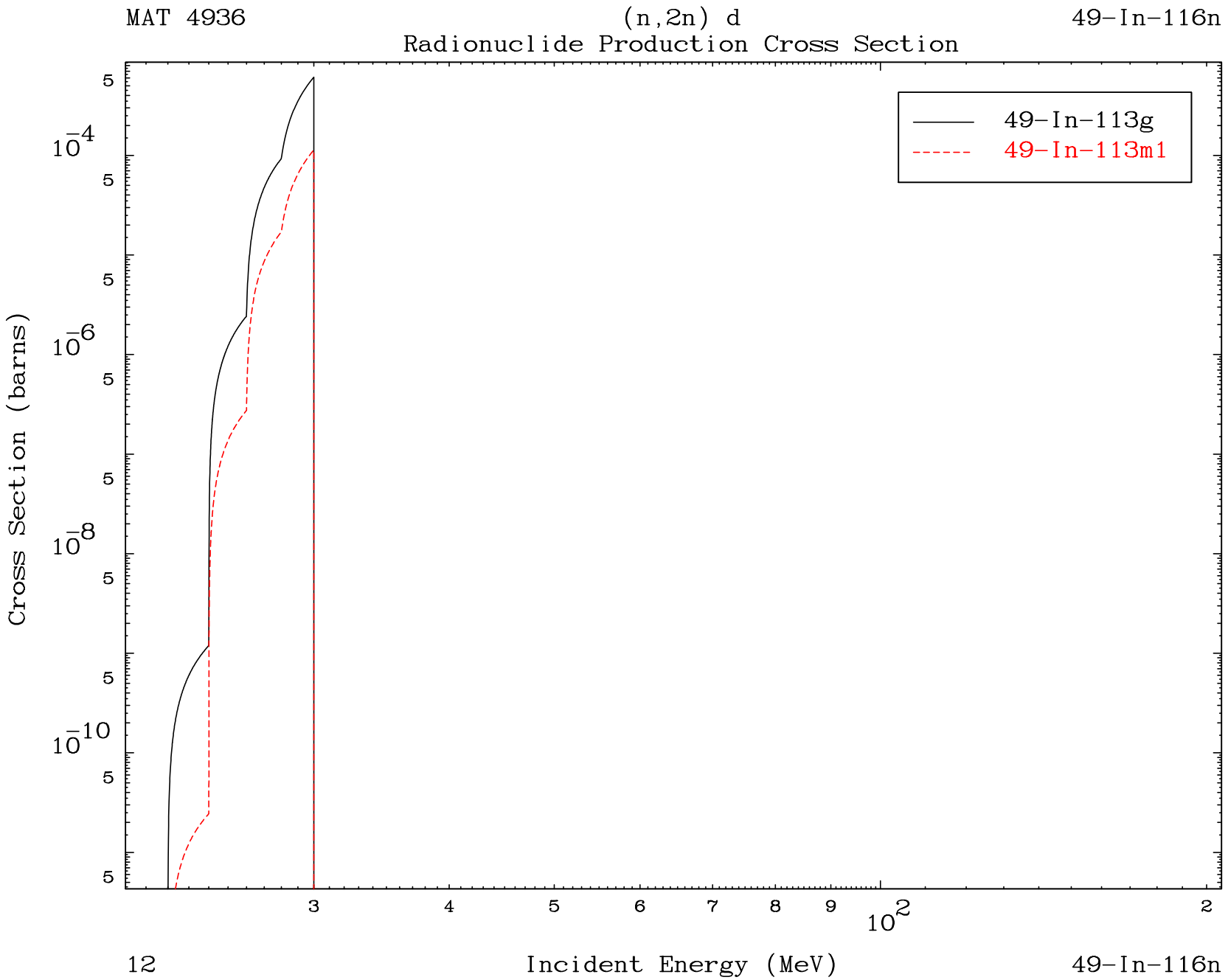

MAT 4936
(p,p) Levels
49-In-116n
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
49-In-116n

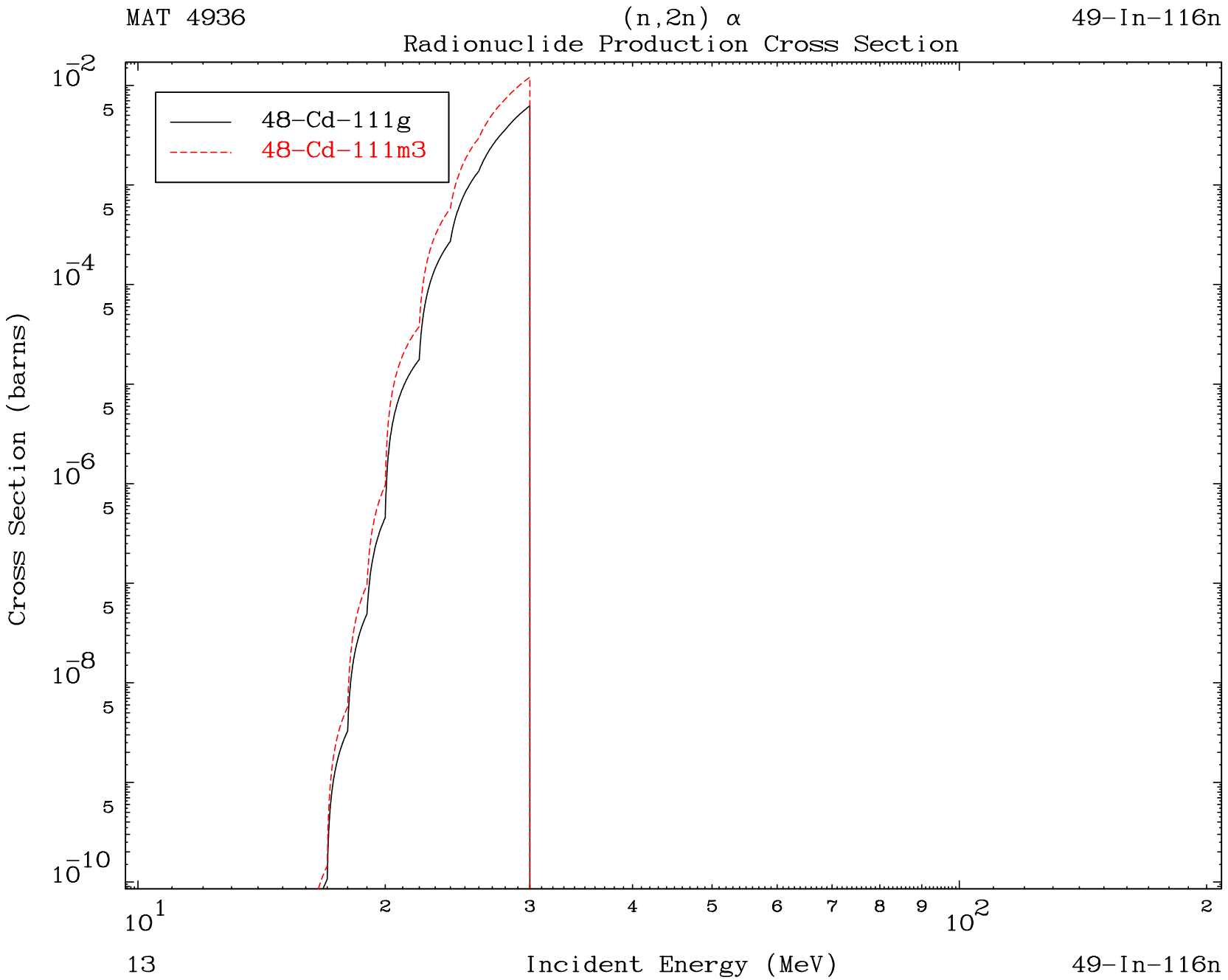

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
5
5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

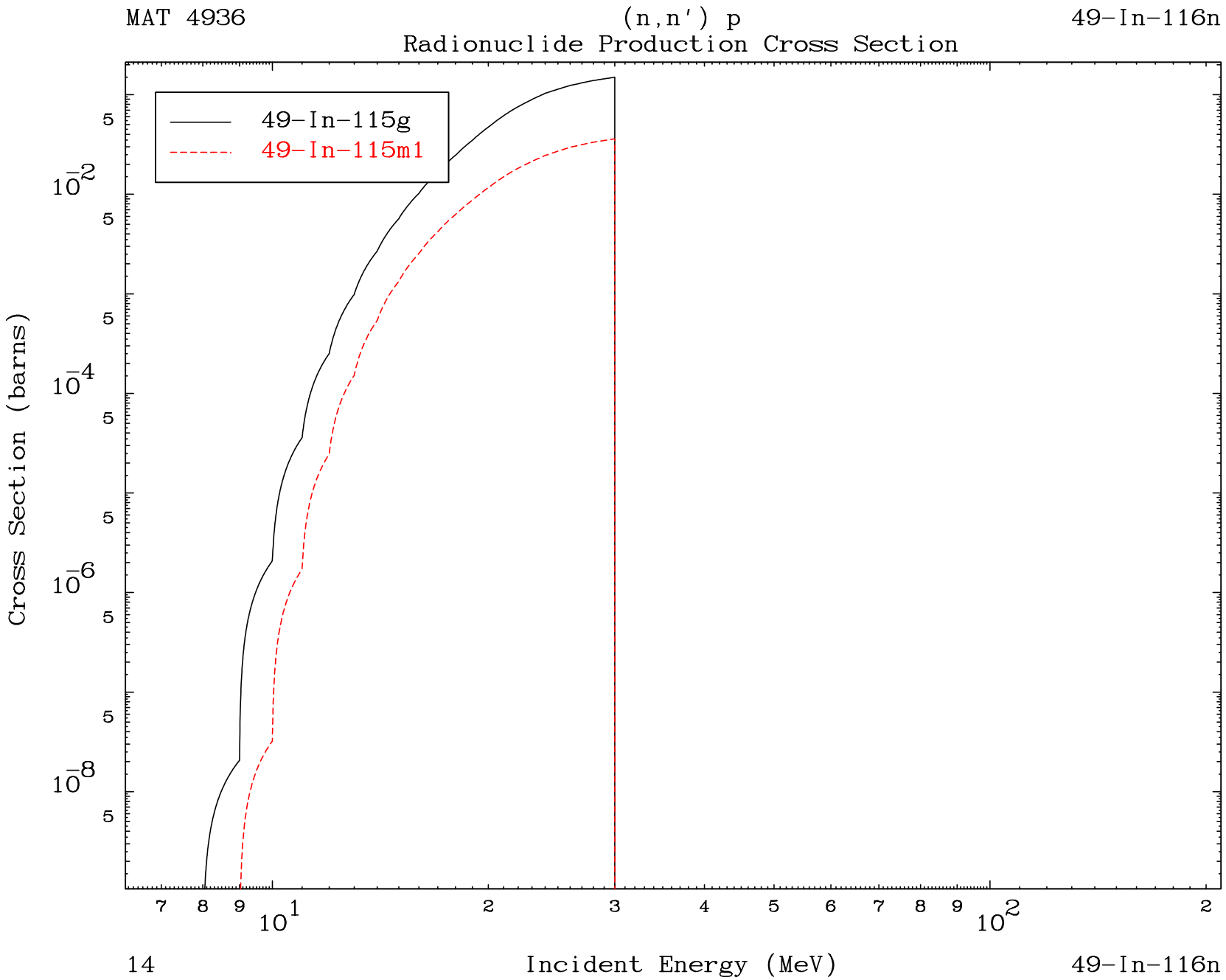

MAT 4936
(p,t) Levels
49-In-116n
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
49-In-116n
9

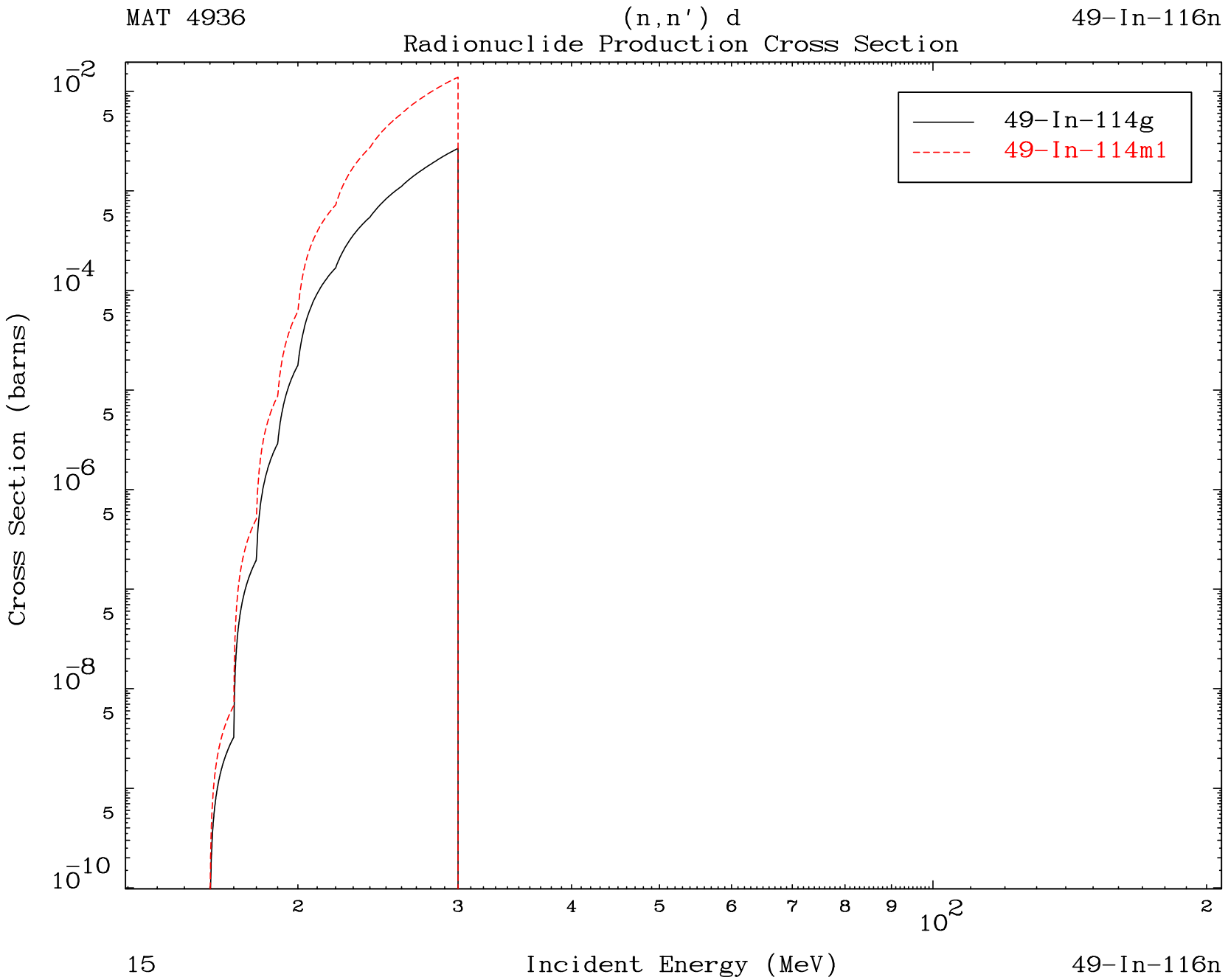

MAT 4936
(p,He3) Levels
49-In-116n
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
10
Incident Energy (MeV)
49-In-116n

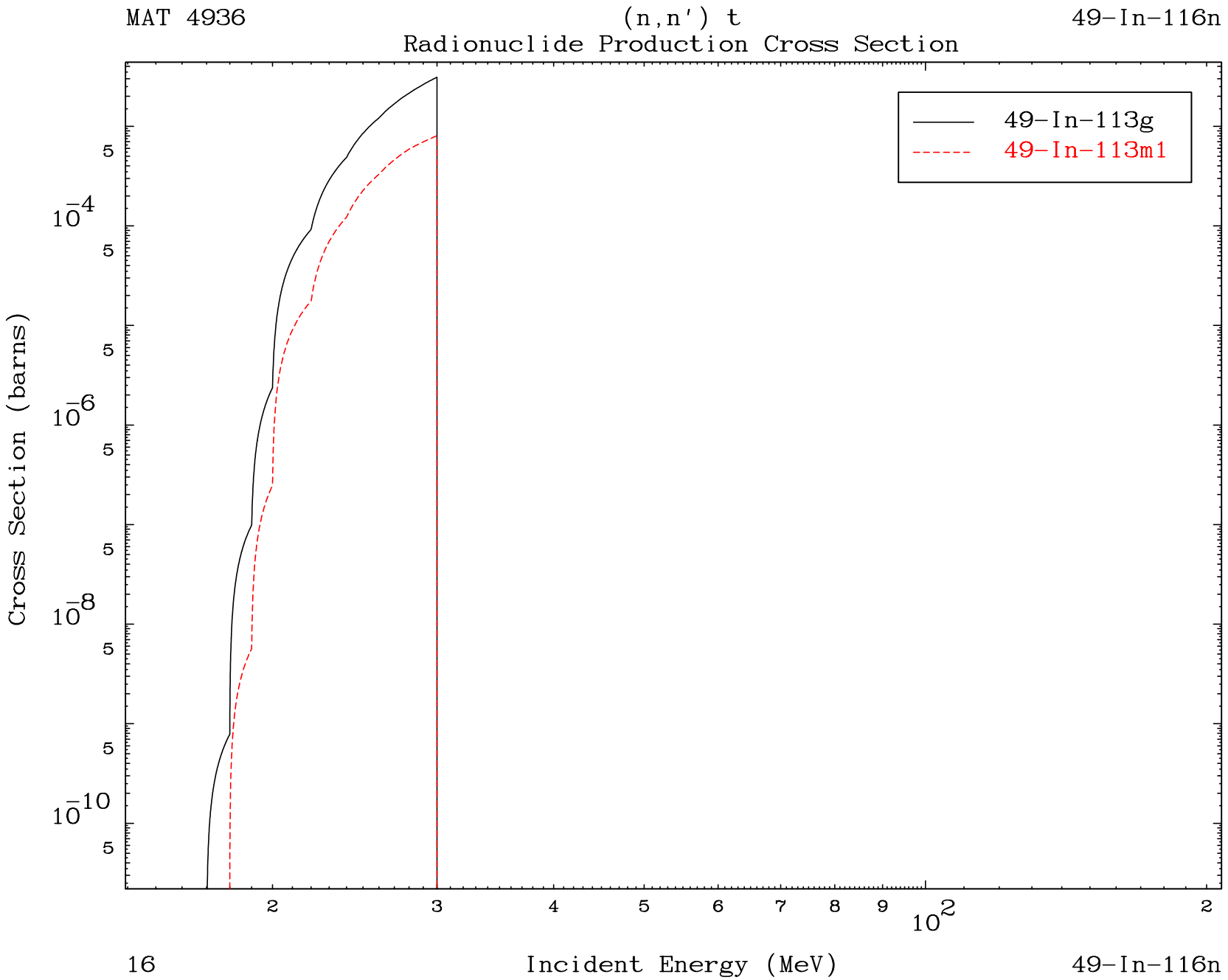

MAT 4936
(p,α) Levels
49-In-116n
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10⁻⁴
10⁻⁶
10⁻⁸
10⁻¹⁰
10⁰
10¹
10²
Incident Energy (MeV)
11
49-In-116n

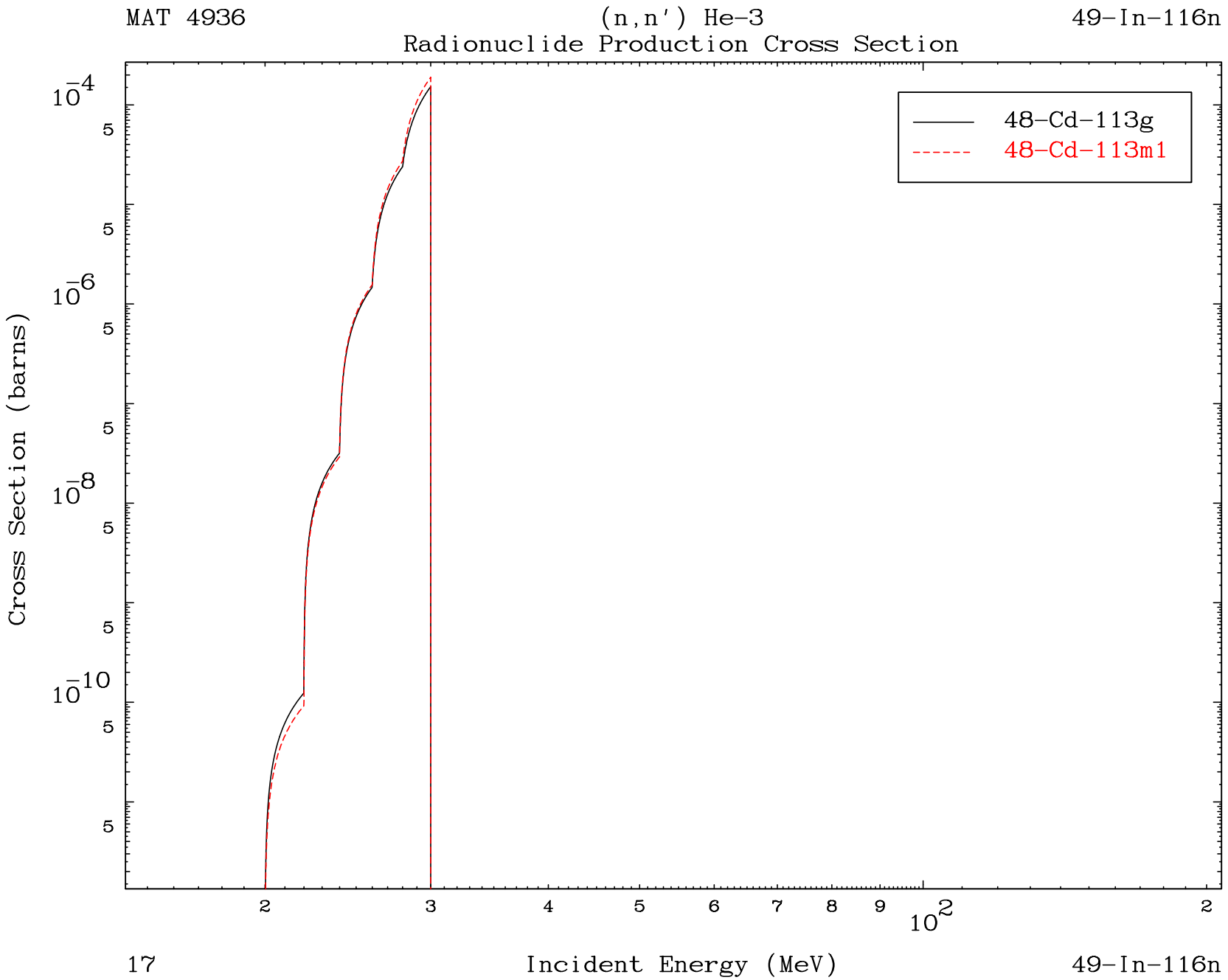

MAT 4936
(n,2n) d
49-In-116n
Radionuclide Production Cross Section
49-In-113g
49-In-113m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
12
49-In-116n

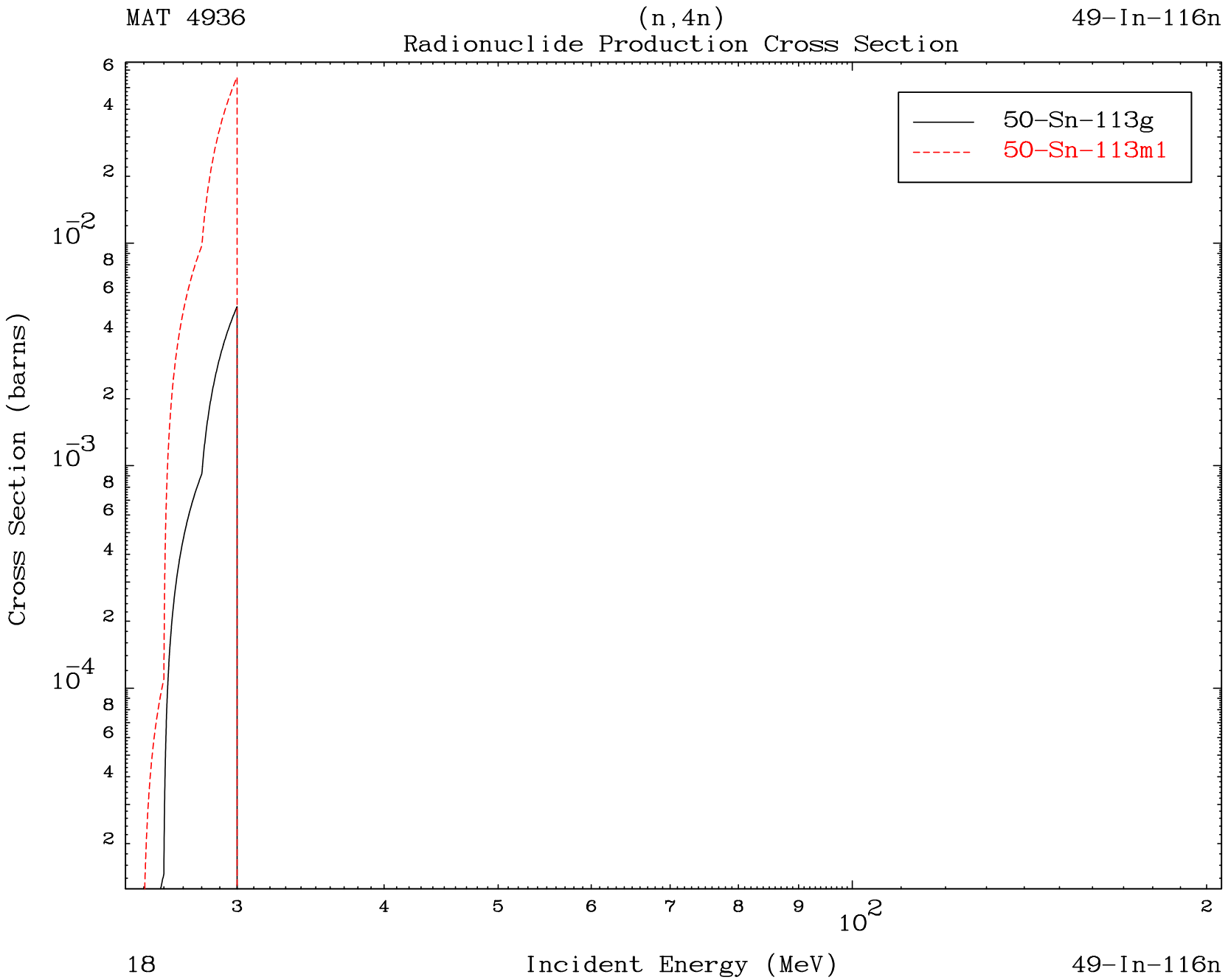

MAT 4936
(n,2n) α
49-In-116n
Radionuclide Production Cross Section
48-Cd-111g
48-Cd-111m3
Cross Section (barns)
Incident Energy (MeV)
13
49-In-116n

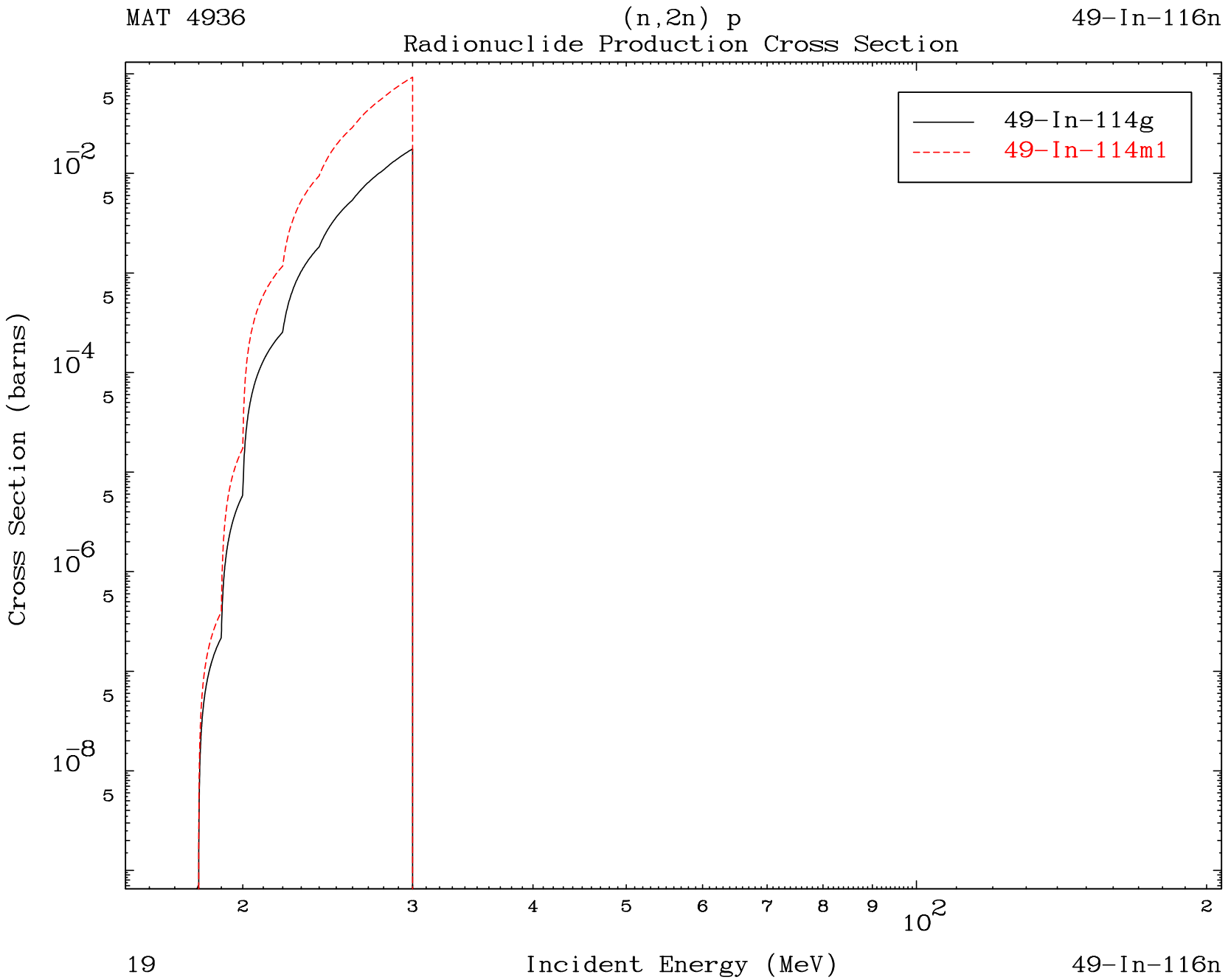

MAT 4936
(n,n') p
49-In-116n
Radionuclide Production Cross Section
49-In-115g
49-In-115m1
Cross Section (barns)
Incident Energy (MeV)
14
49-In-116n

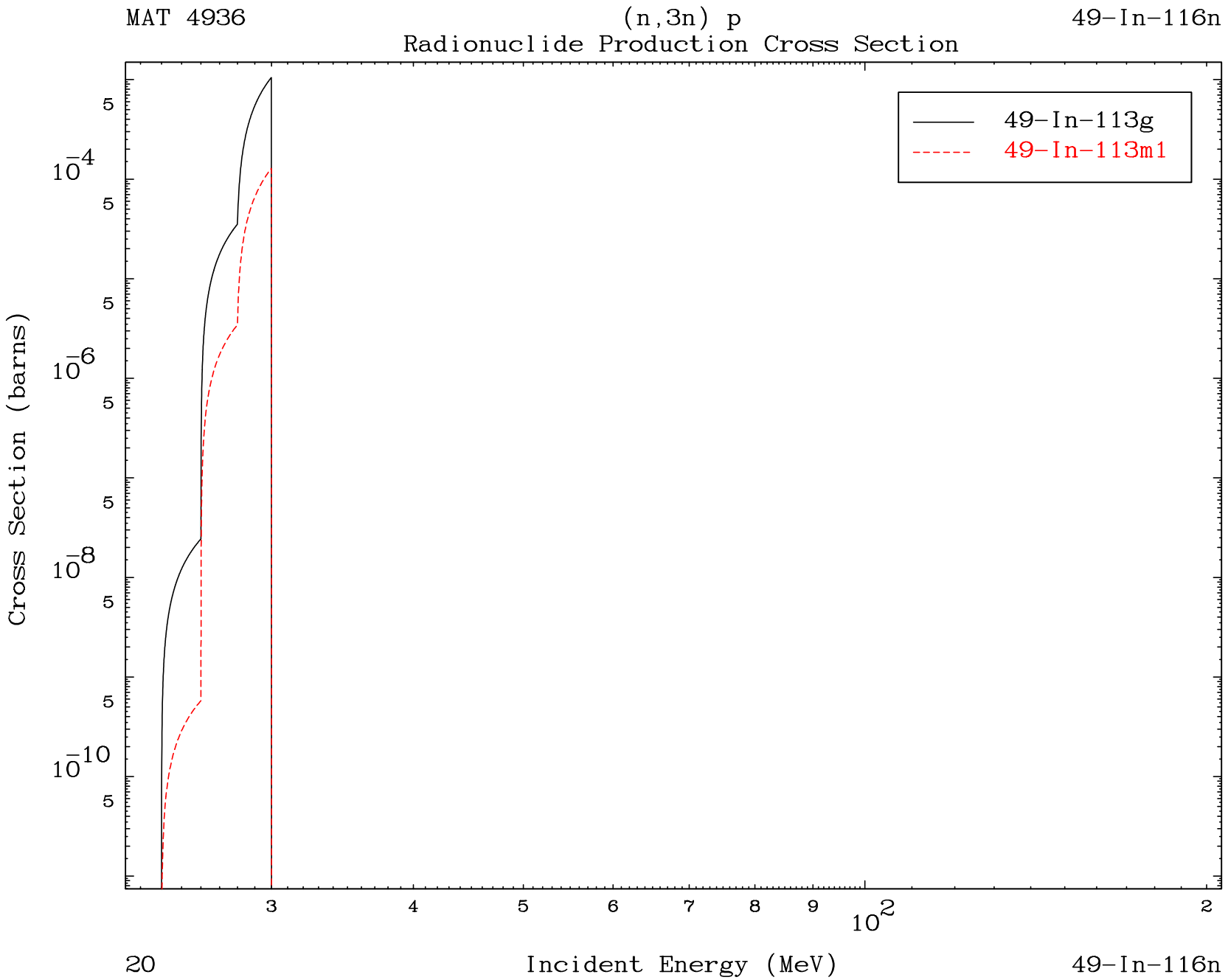

MAT 4936
(n,n') d
49-In-116n
Radionuclide Production Cross Section
49-In-114g
49-In-114m1
Cross Section (barns)
Incident Energy (MeV)
15
49-In-116n

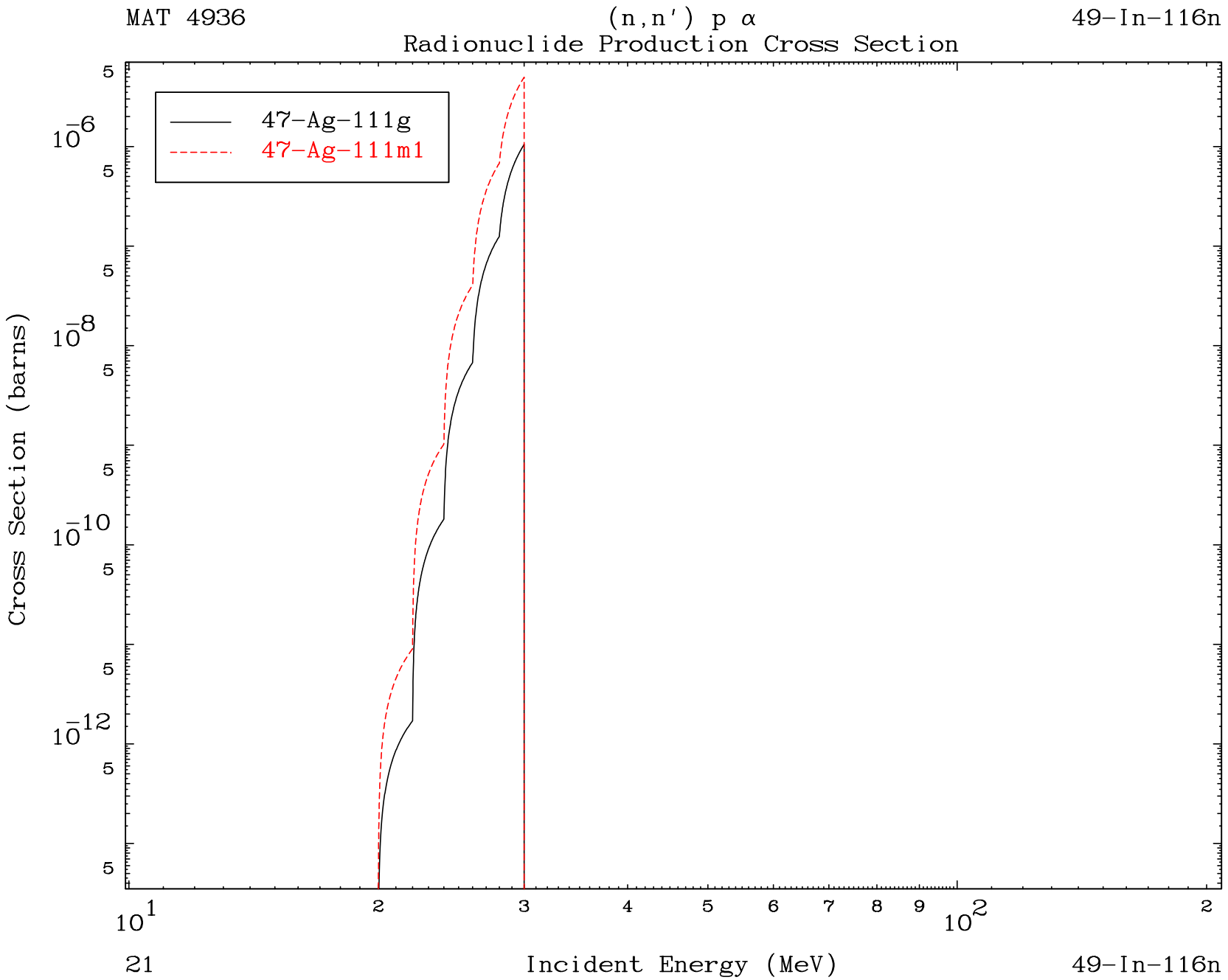

MAT 4936
(n,n') t
49-In-116n
Radionuclide Production Cross Section
49-In-113g
49-In-113m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
49-In-116n

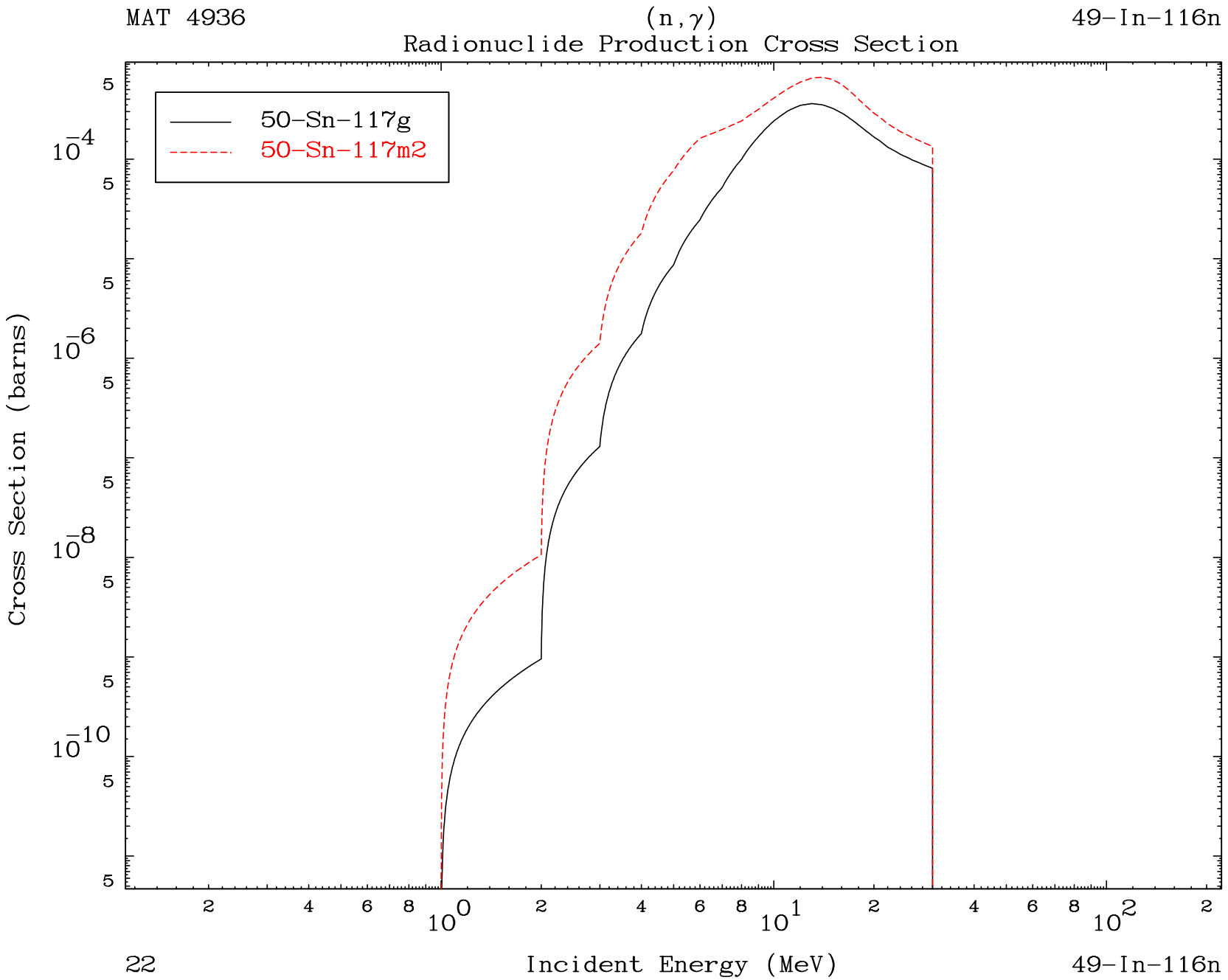

MAT 4936
(n,n') He-3
49-In-116n
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
17
49-In-116n

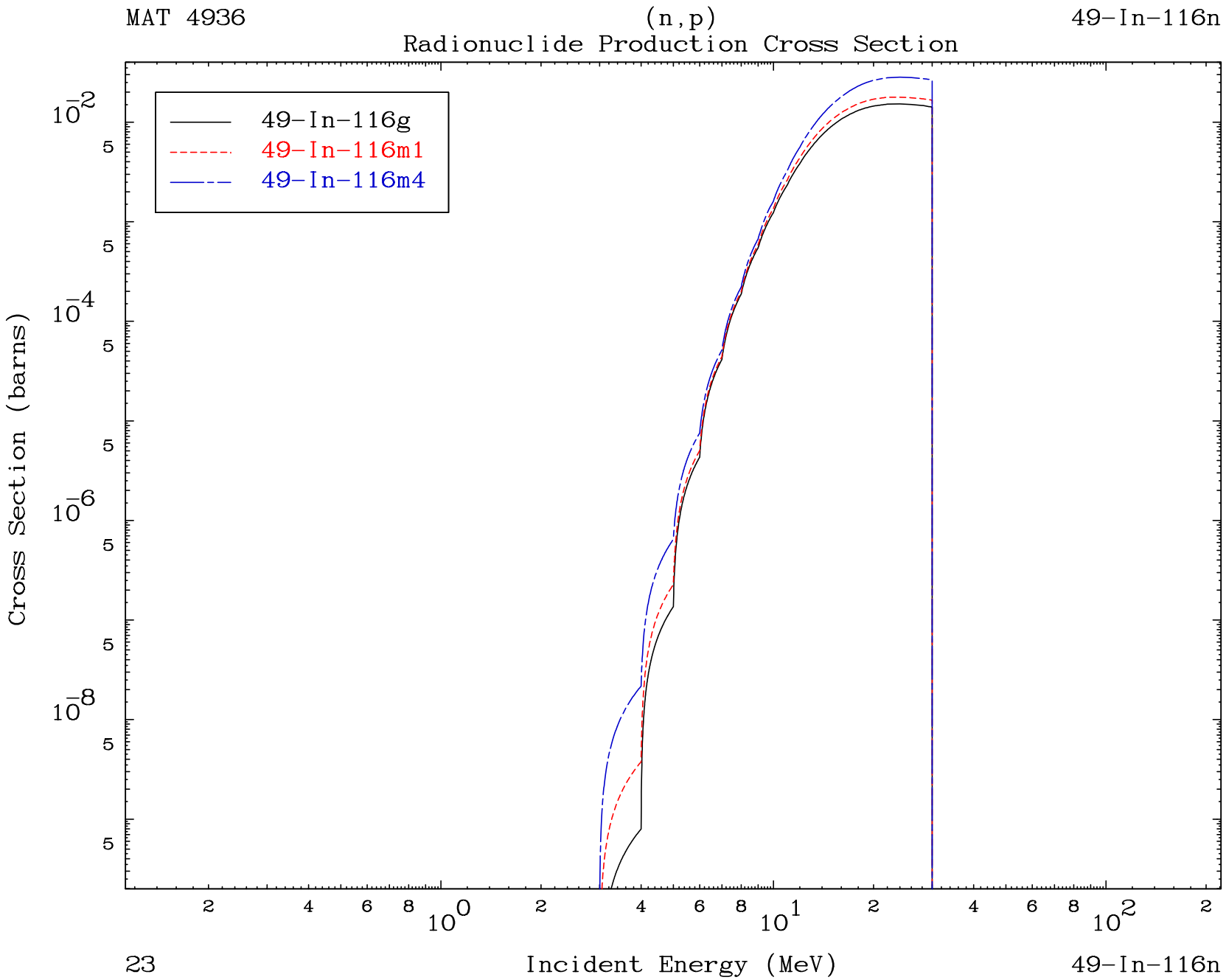

MAT 4936
(n,4n)
49-In-116n
Radionuclide Production Cross Section
50-Sn-113g
50-Sn-113m1
Cross Section (barns)
Incident Energy (MeV)
18
49-In-116n

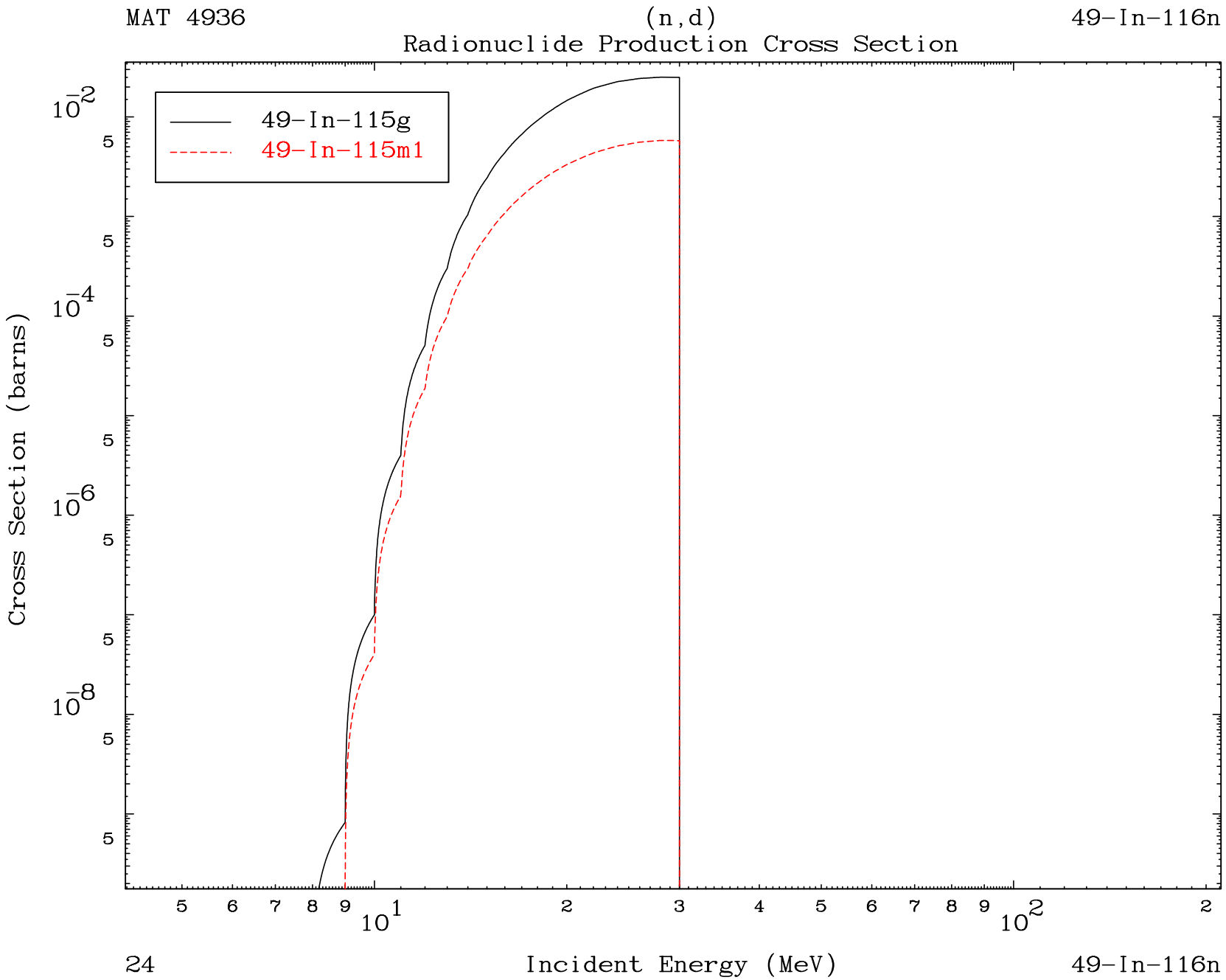

MAT 4936
(n,2n) p
49-In-116n
Radionuclide Production Cross Section
49-In-114g
49-In-114m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
49-In-116n

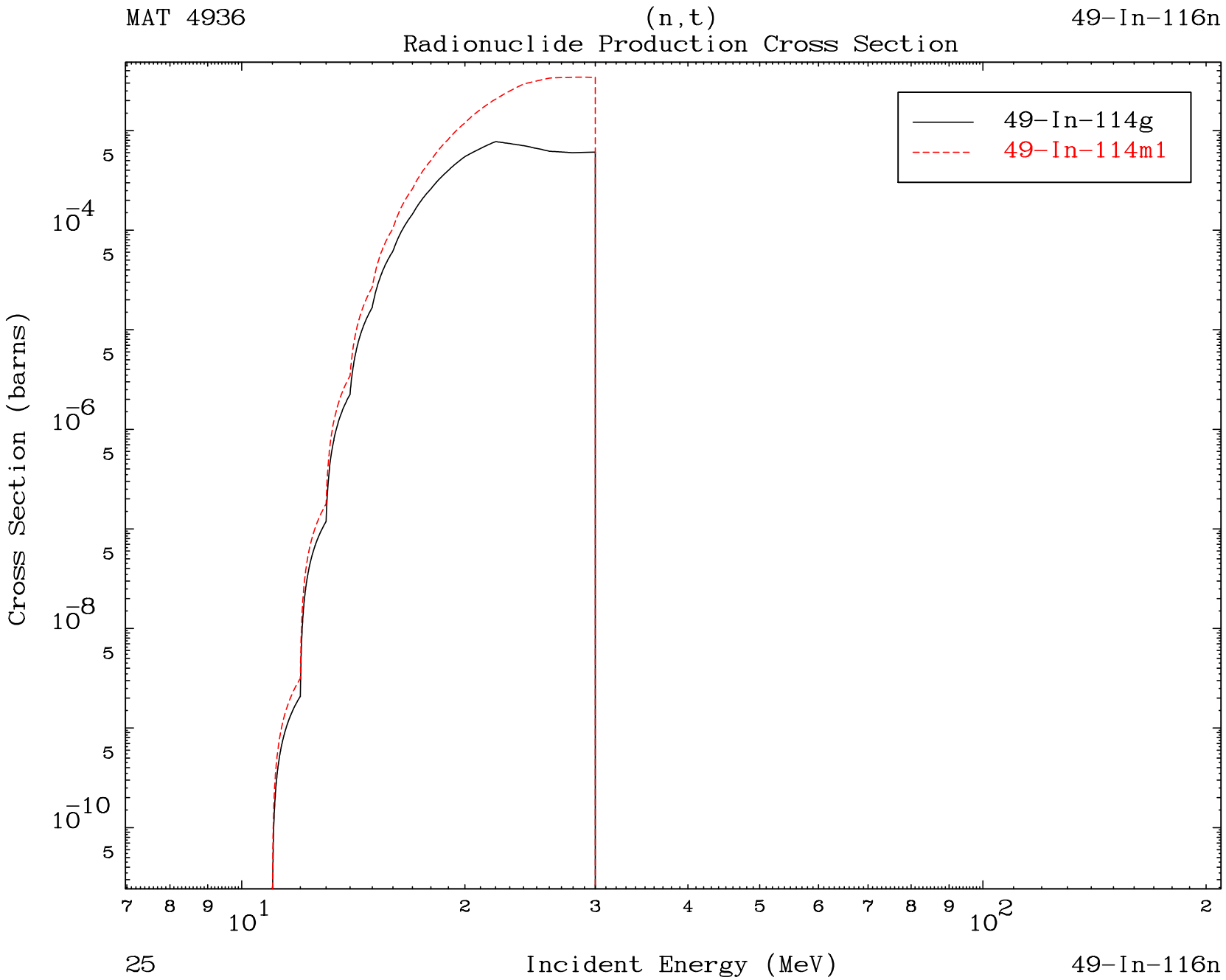

MAT 4936
(n,3n) p
49-In-116n
Radionuclide Production Cross Section
49-In-113g
49-In-113m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
49-In-116n

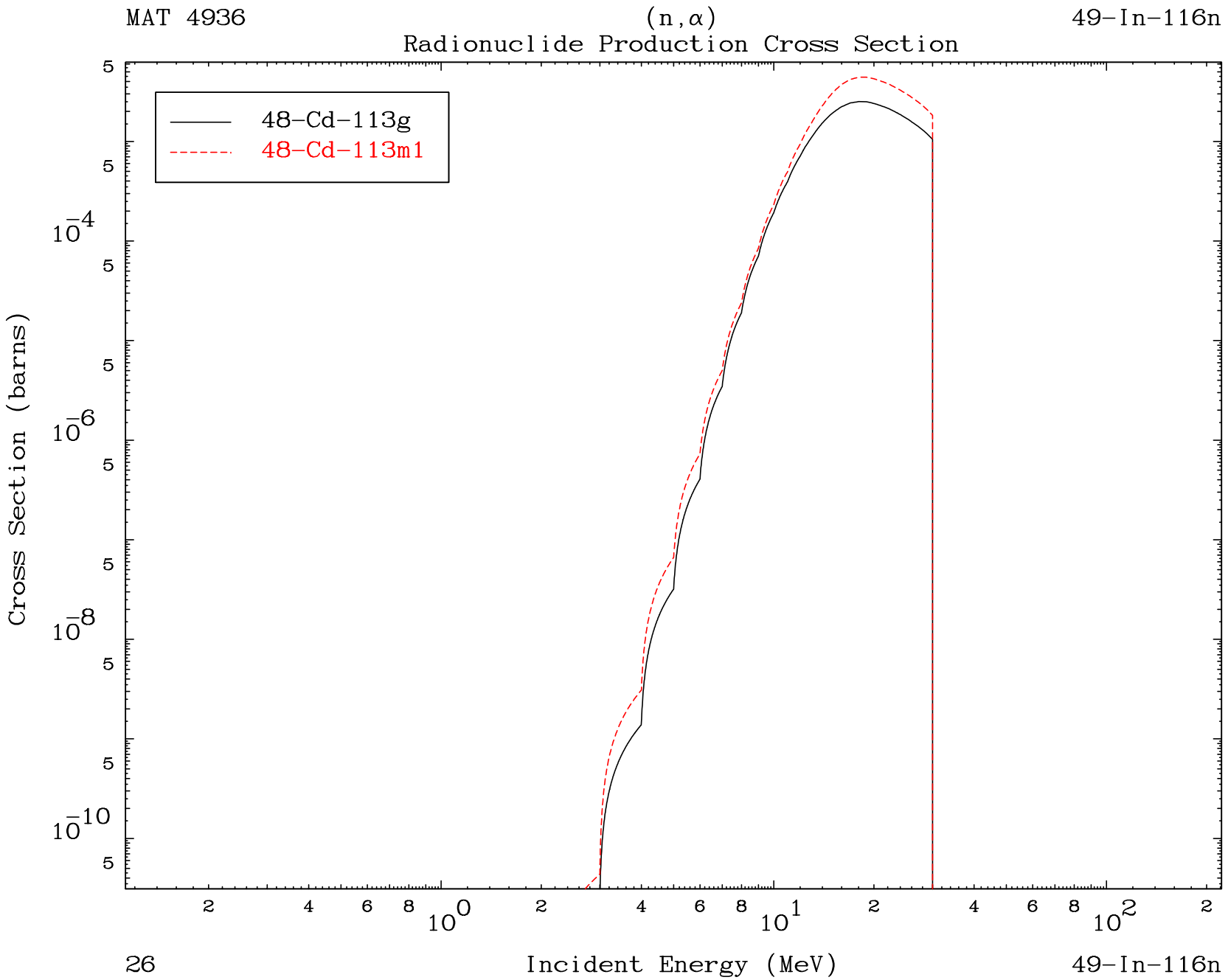

MAT 4936
(n,n') p α
49-In-116n
Radionuclide Production Cross Section
47-Ag-111g
47-Ag-111m1
Cross Section (barns)
Incident Energy (MeV)
21
49-In-116n

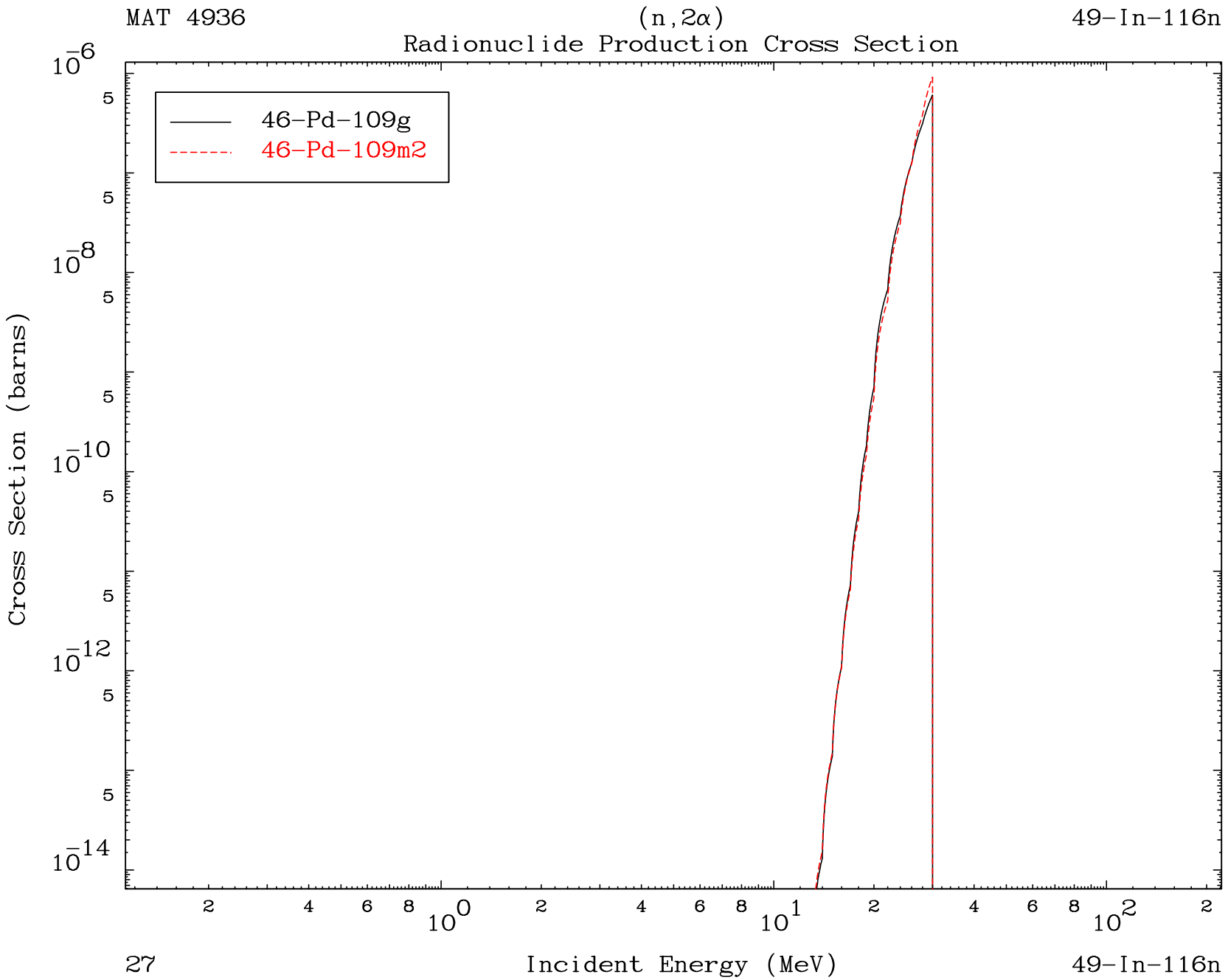

MAT 4936
(n,γ)
49-In-116n
Radionuclide Production Cross Section
50-Sn-117g
50-Sn-117m2
Cross Section (barns)
Incident Energy (MeV)
22
49-In-116n

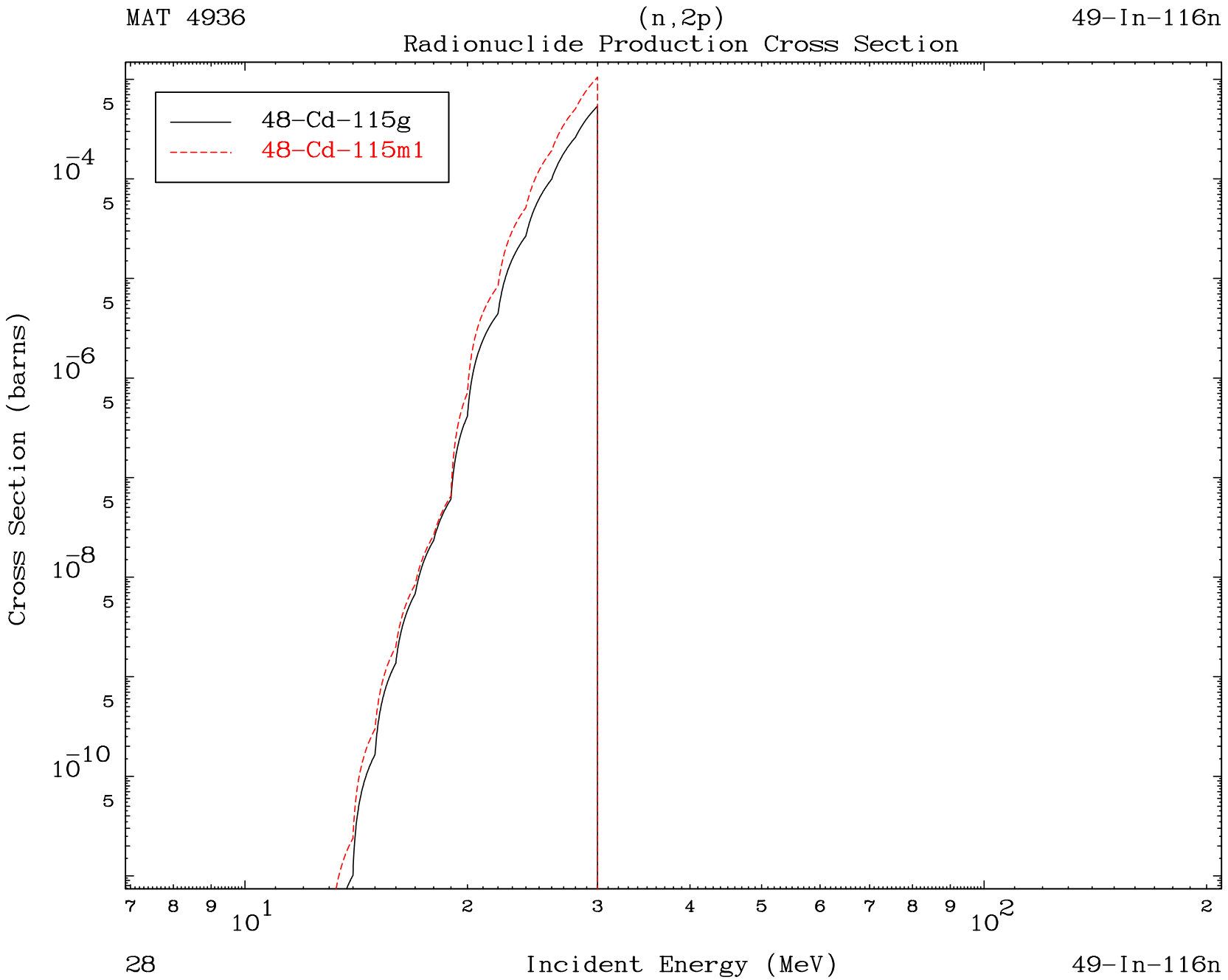

MAT 4936
(n,p)
49-In-116n
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
Incident Energy (MeV)
23
49-In-116n

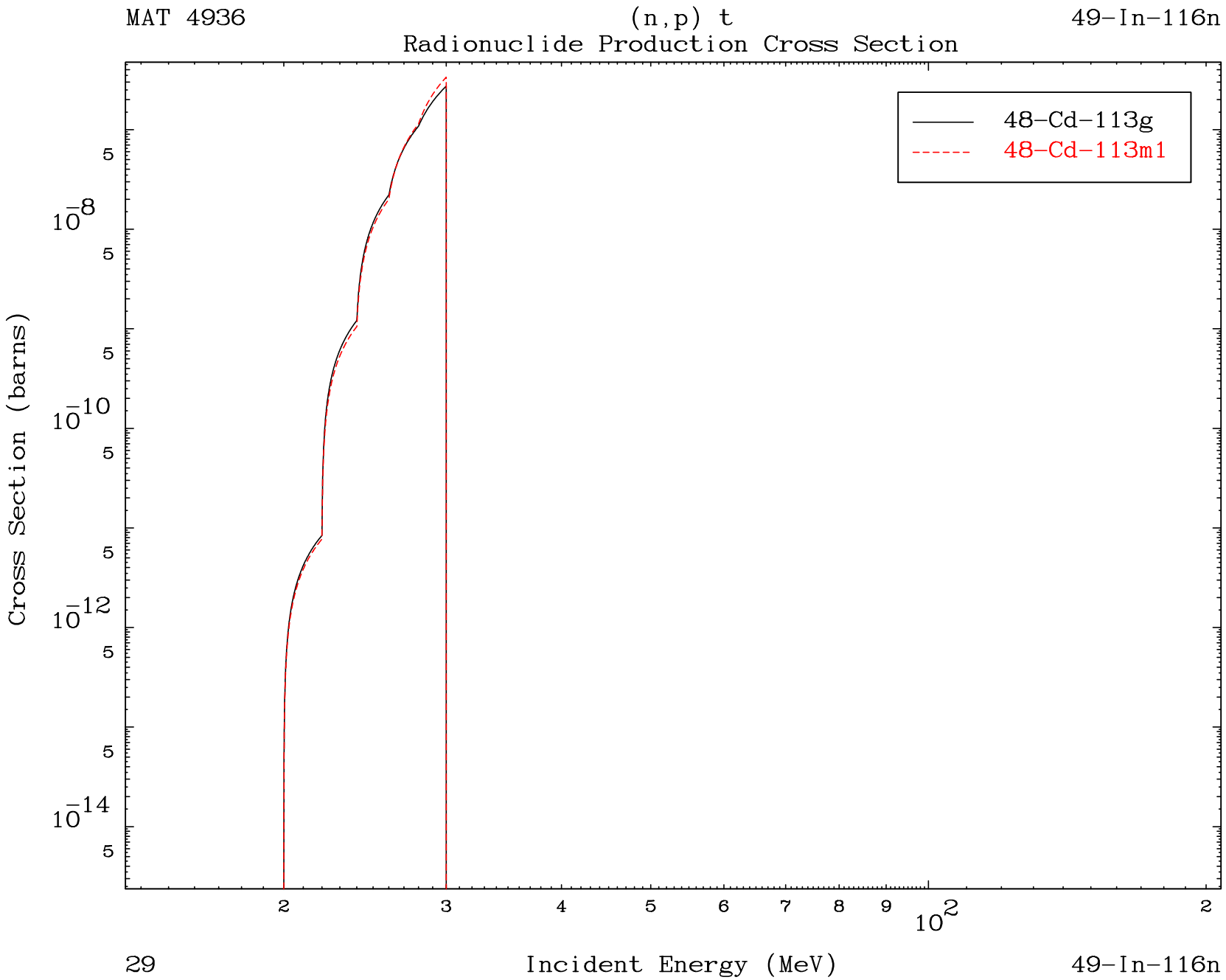

MAT 4936
(n,d)
49-In-116n
Radionuclide Production Cross Section
49-In-115g
49-In-115m1
Cross Section (barns)
Incident Energy (MeV)
24
49-In-116n

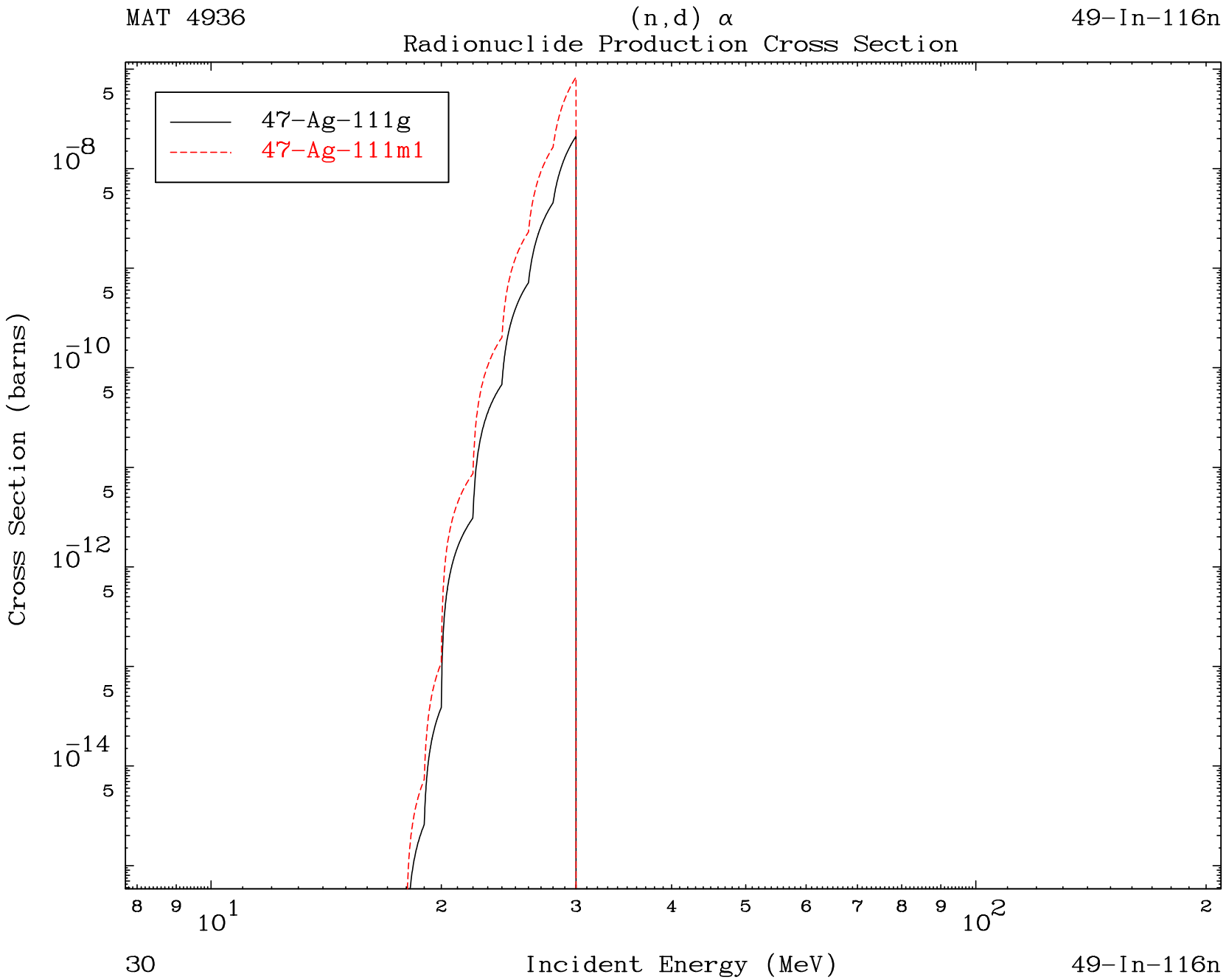

MAT 4936
(n,t)
49-In-116n
Radionuclide Production Cross Section
49-In-114g
49-In-114m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
25
Incident Energy (MeV)
49-In-116n


MAT 4936
(n,α)
49-In-116n
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
26
49-In-116n


MAT 4936
(n,2α)
49-In-116n
Radionuclide Production Cross Section
46-Pd-109g
46-Pd-109m2
Cross Section (barns)
Incident Energy (MeV)
27
49-In-116n


MAT 4936
(n,2p)
49-In-116n
Radionuclide Production Cross Section
48-Cd-115g
48-Cd-115m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
28
49-In-116n


MAT 4936
(n,p) t
49-In-116n
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
29
Incident Energy (MeV)
49-In-116n


MAT 4936
(n,d) α
49-In-116n
Radionuclide Production Cross Section
47-Ag-111g
47-Ag-111m1
Cross Section (barns)
Incident Energy (MeV)
30
49-In-116n