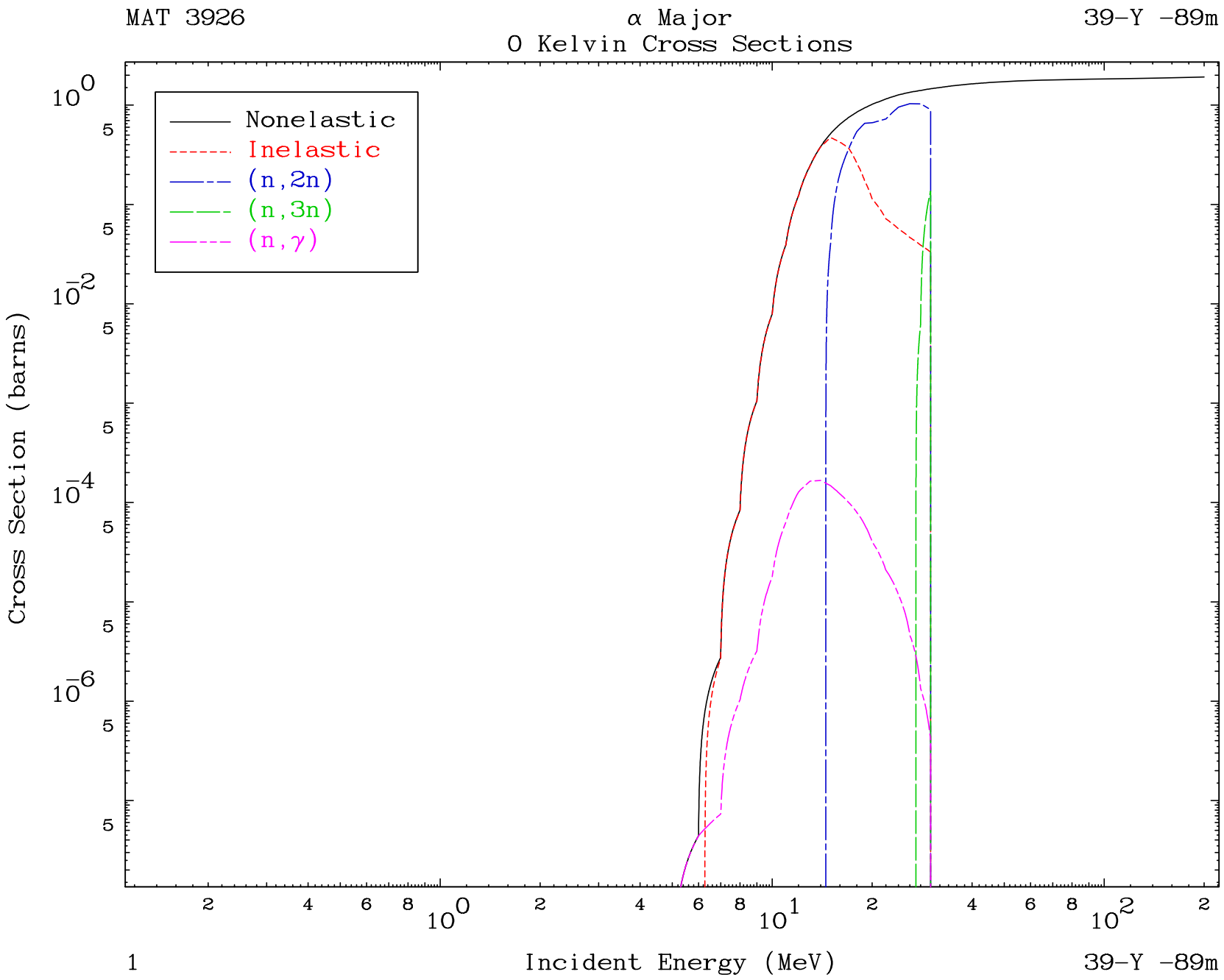
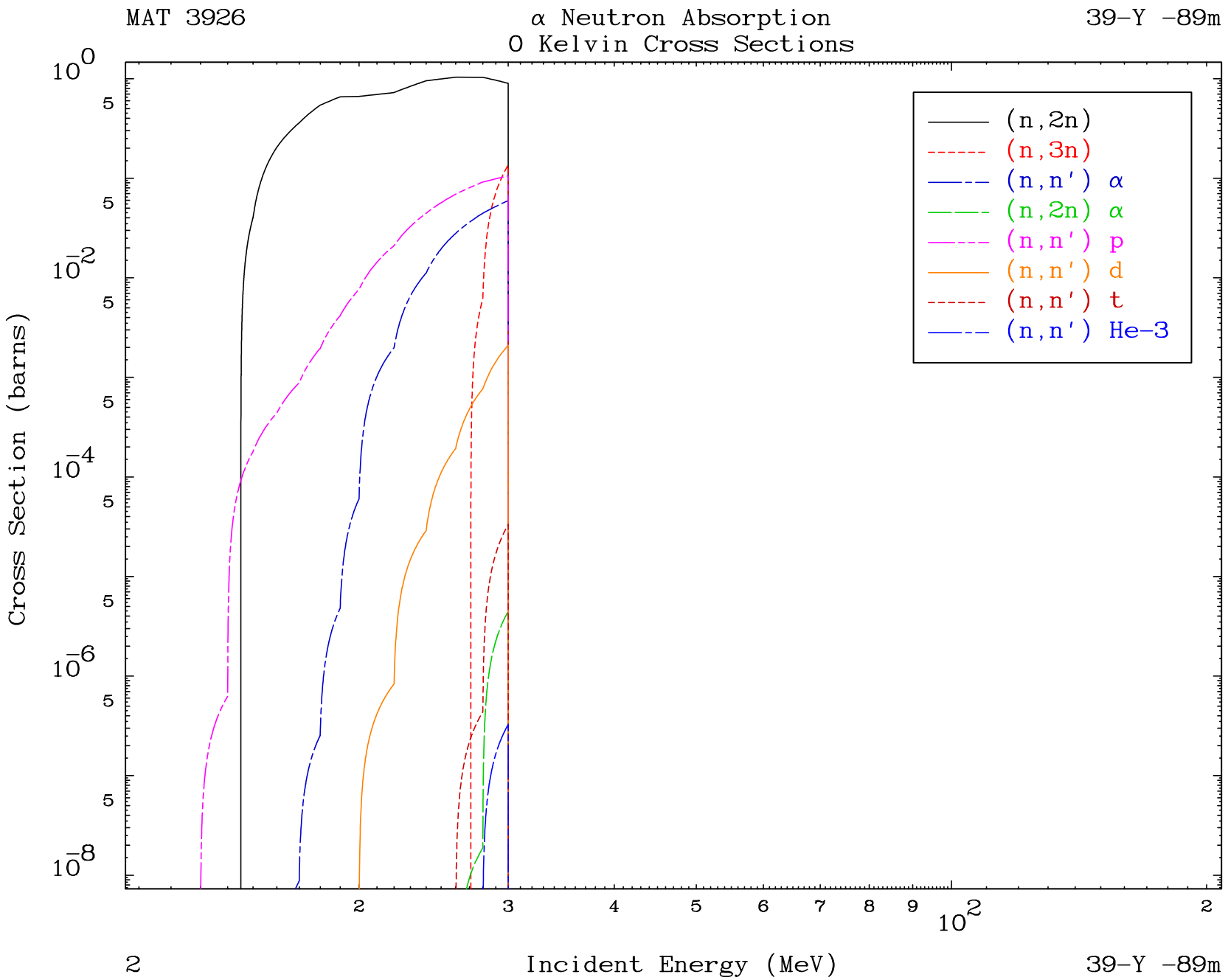
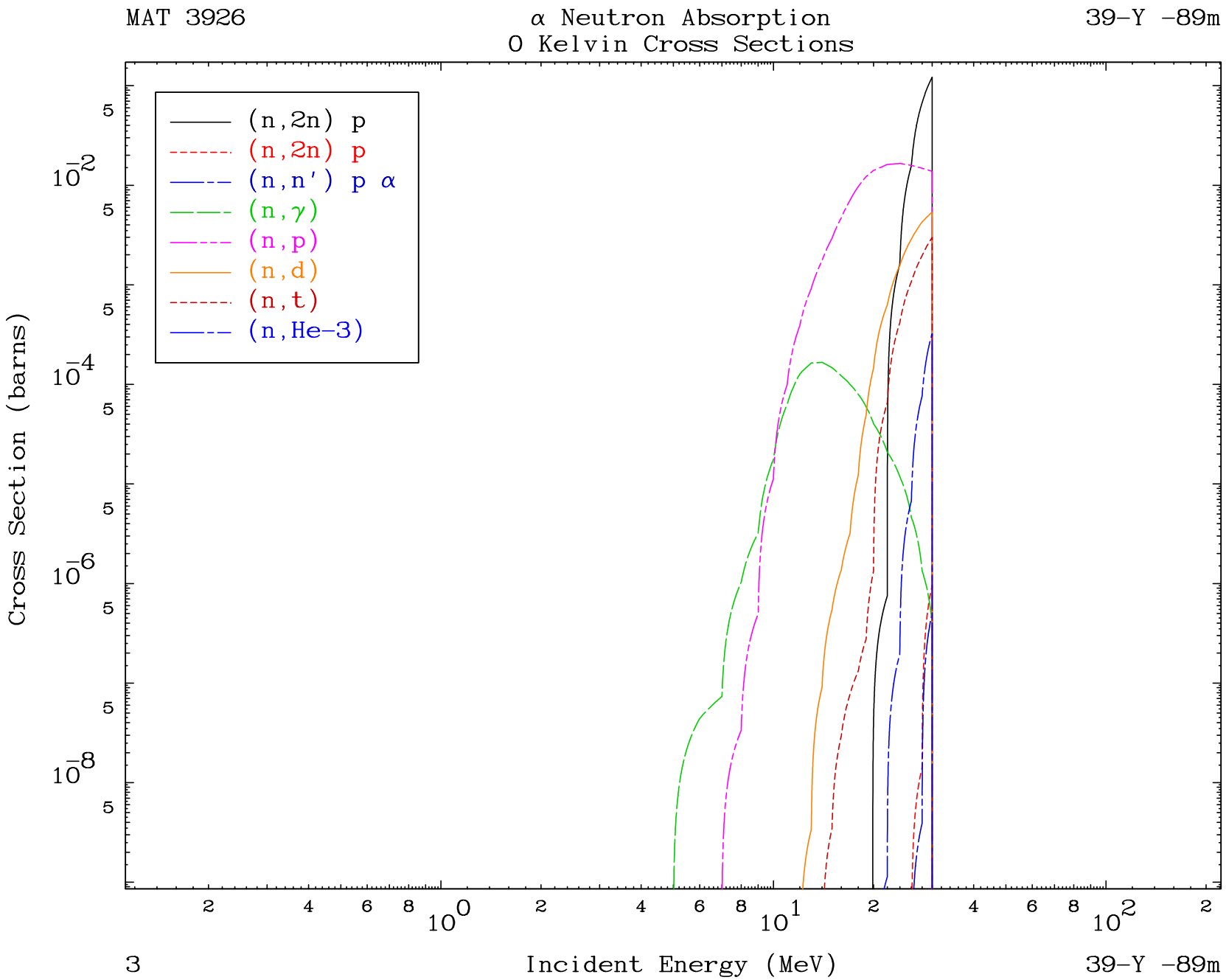
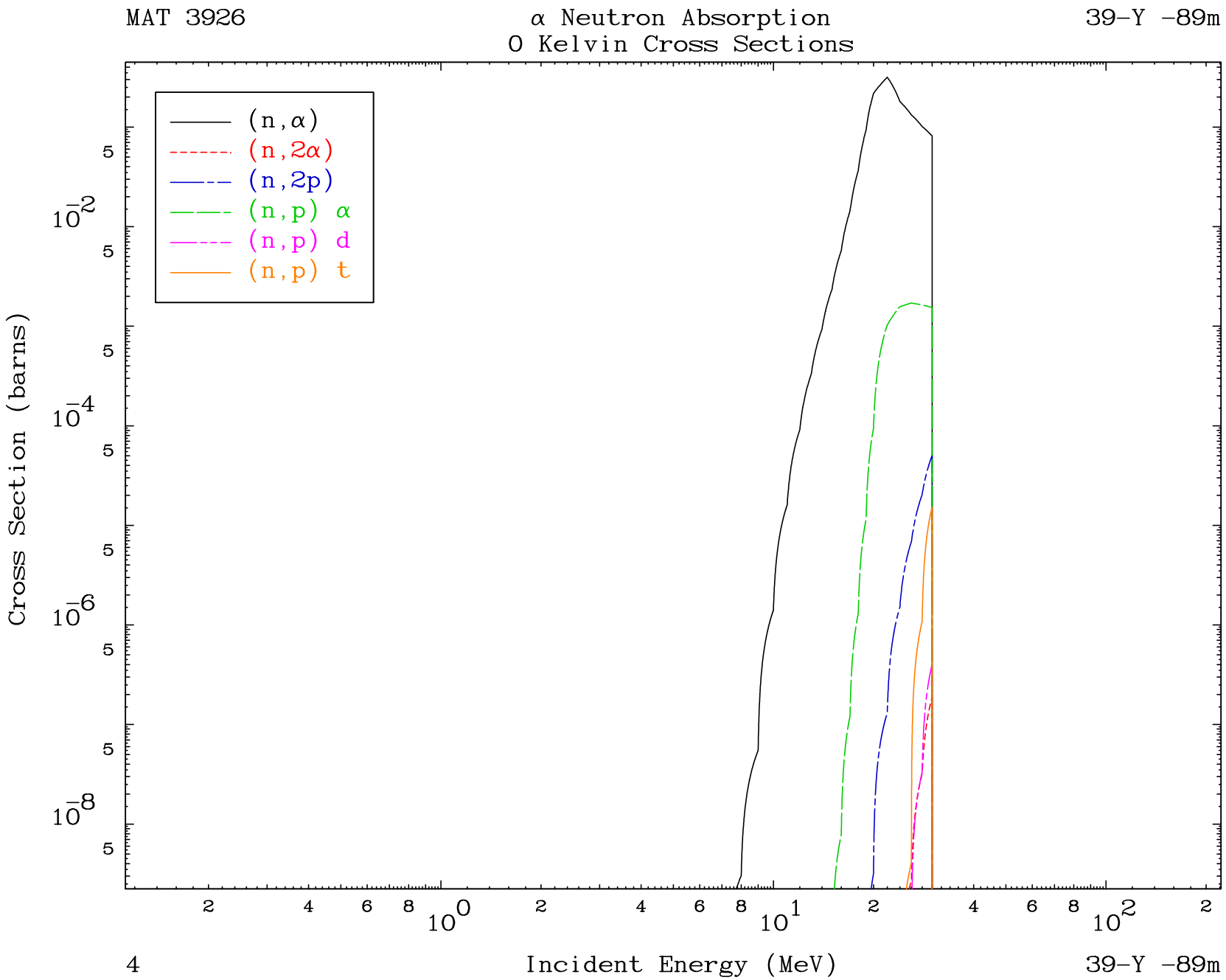
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

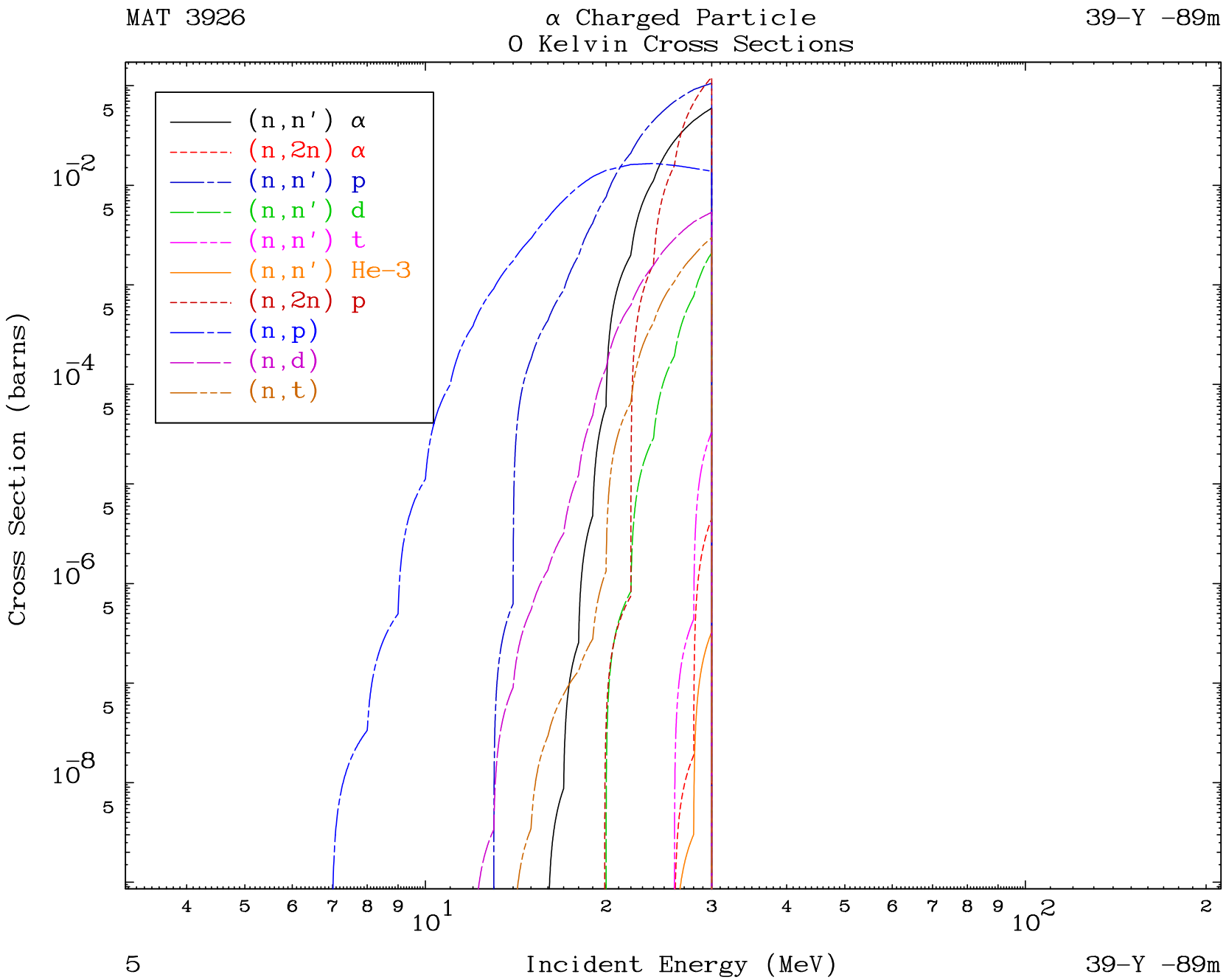
Press Mouse Button to Start

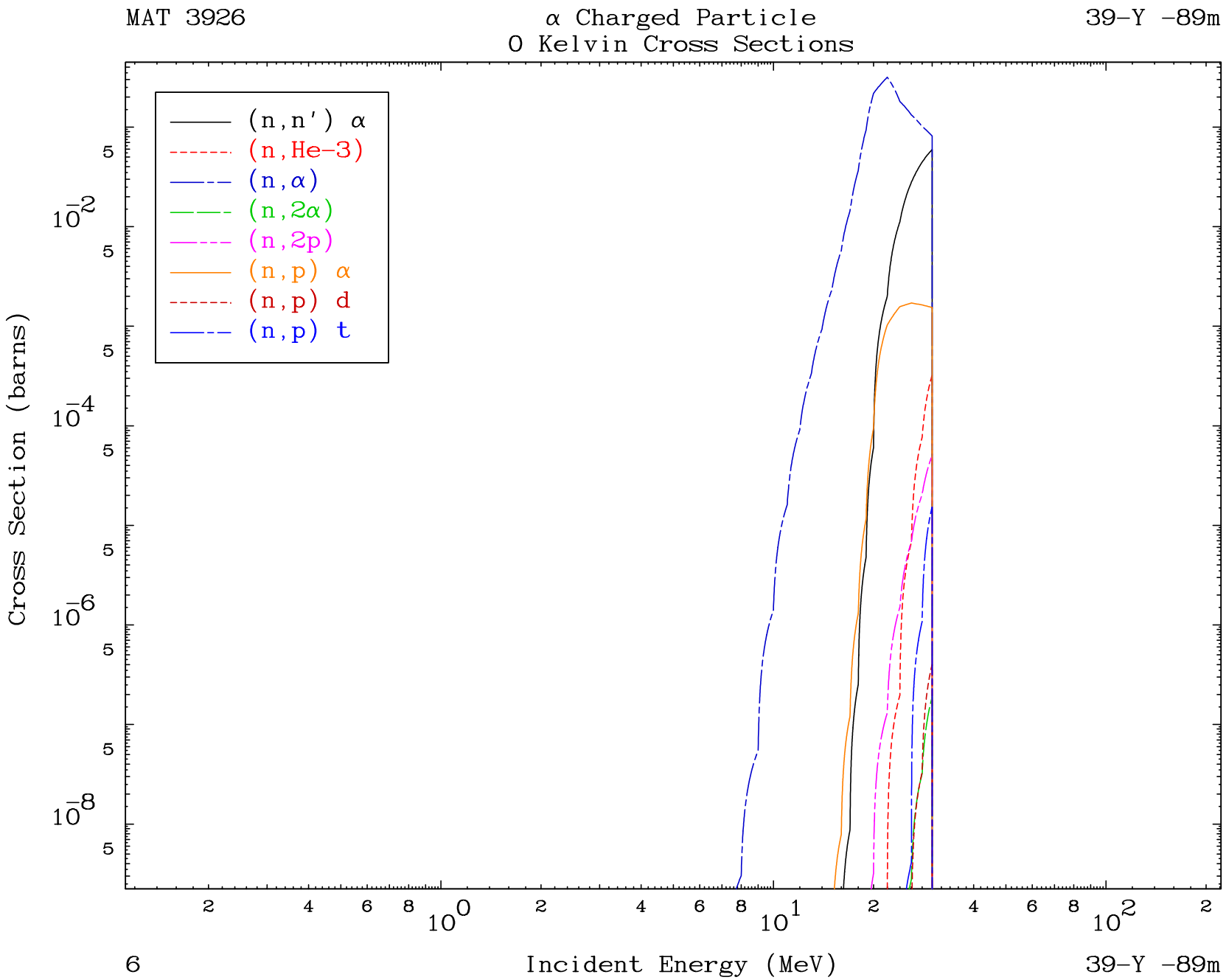

MAT 3926
α Major
39-Y -89m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
39-Y -89m
1

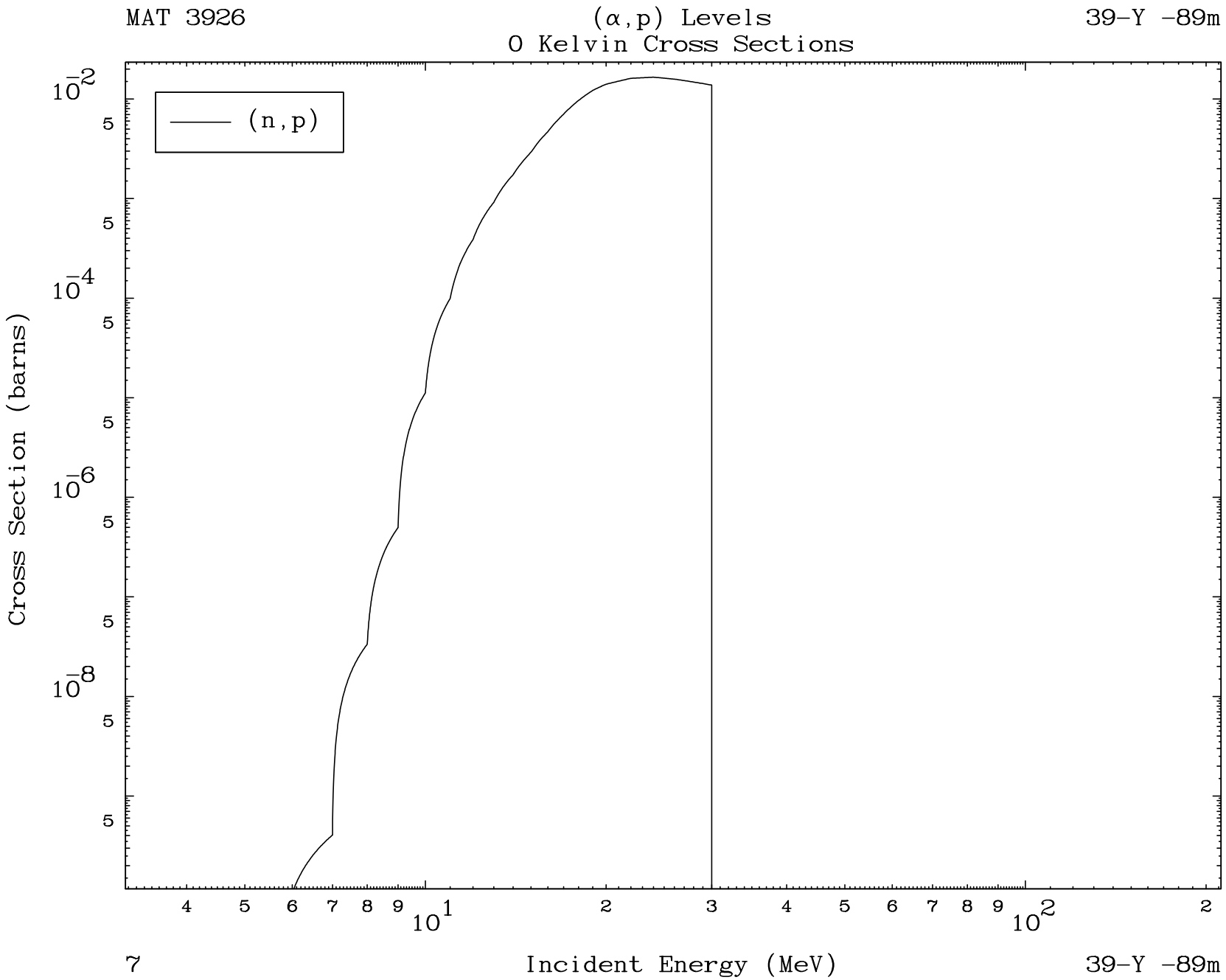

MAT 3926
α Neutron Absorption
0 Kelvin Cross Sections
39-Y -89m
Cross Section (barns)
Incident Energy (MeV)
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3

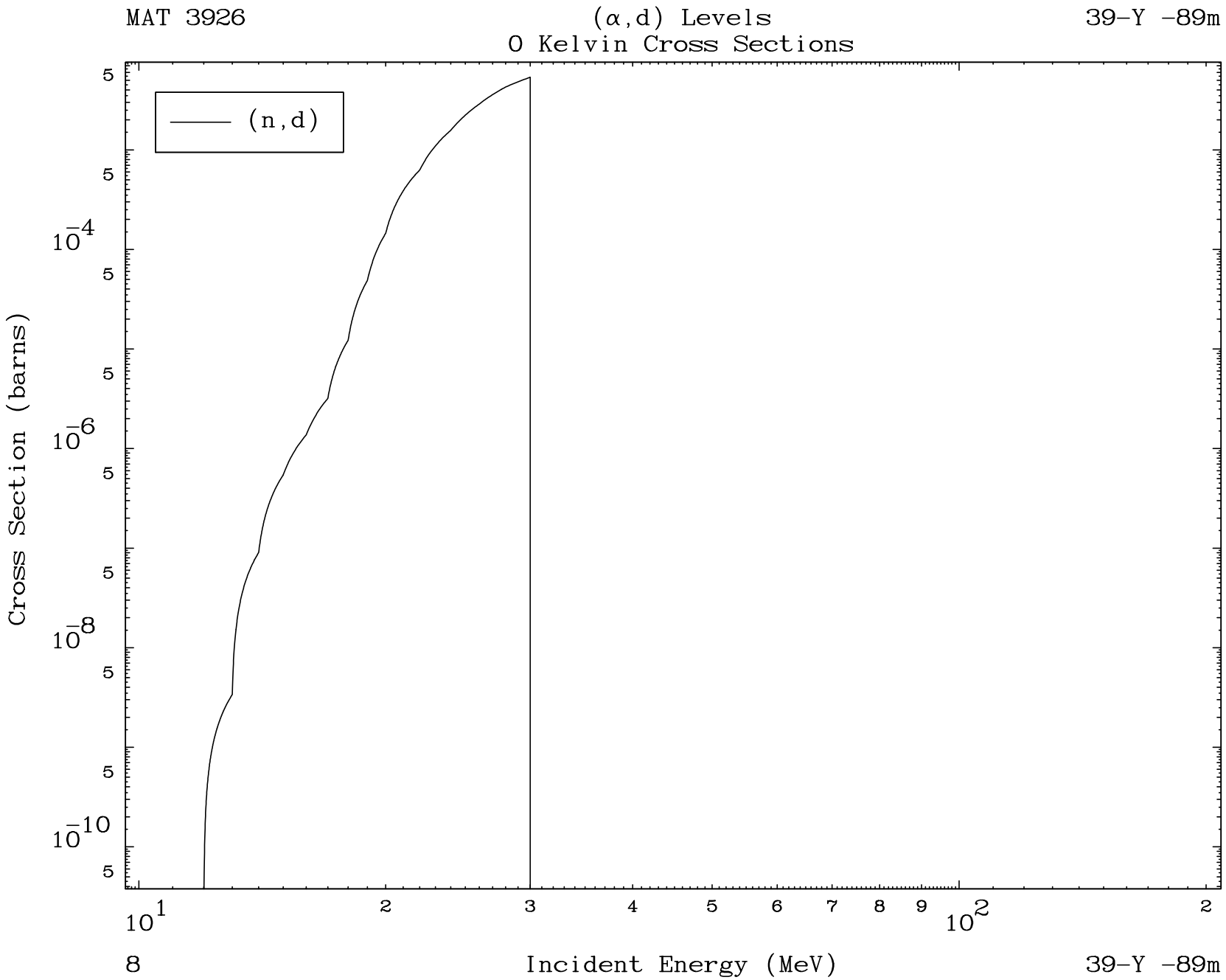

MAT 3926
α Neutron Absorption
0 Kelvin Cross Sections
39-Y -89m
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
3
39-Y -89m

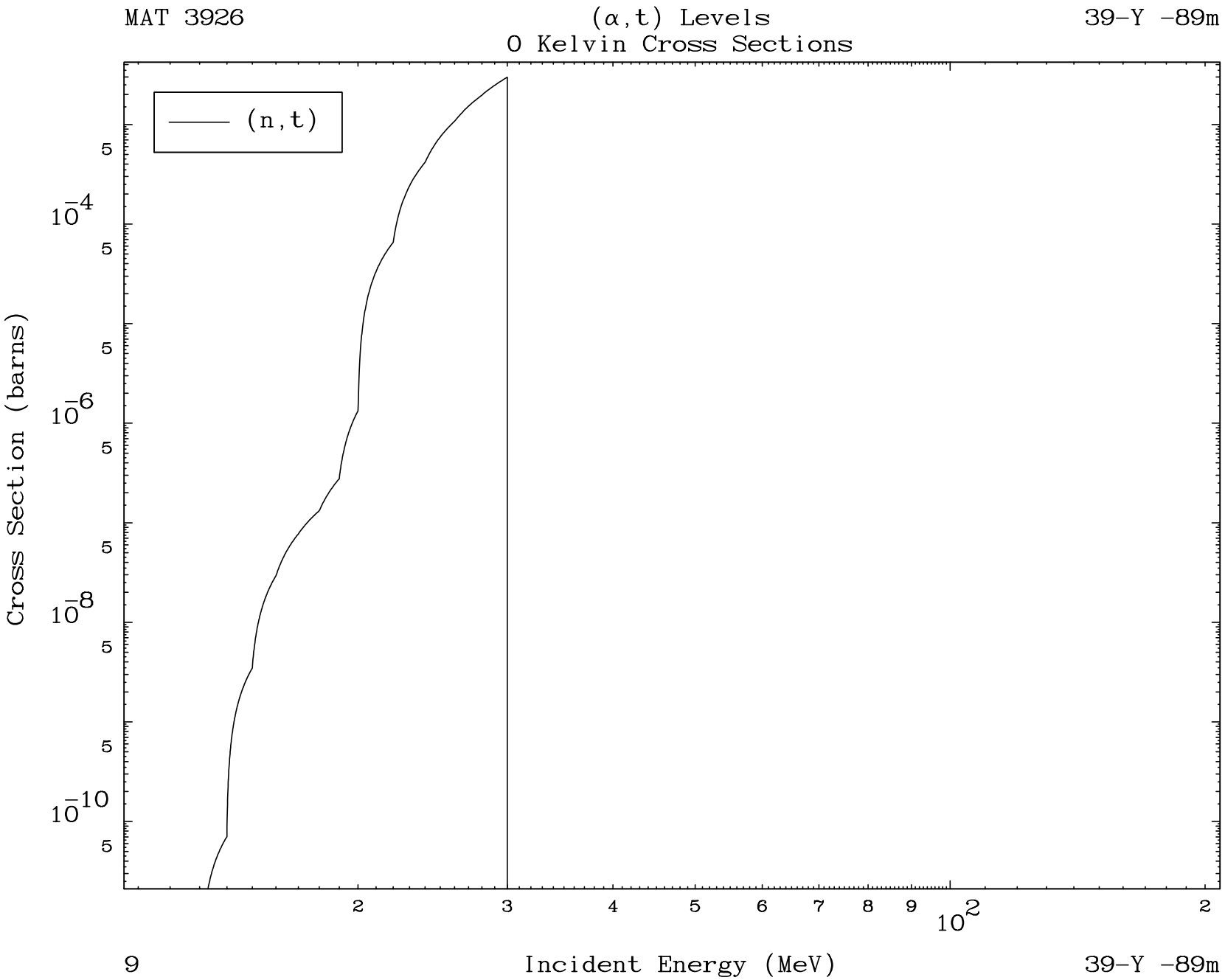

MAT 3926
α Neutron Absorption
0 Kelvin Cross Sections
39-Y -89m
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
Cross Section (barns)
Incident Energy (MeV)
4
39-Y -89m

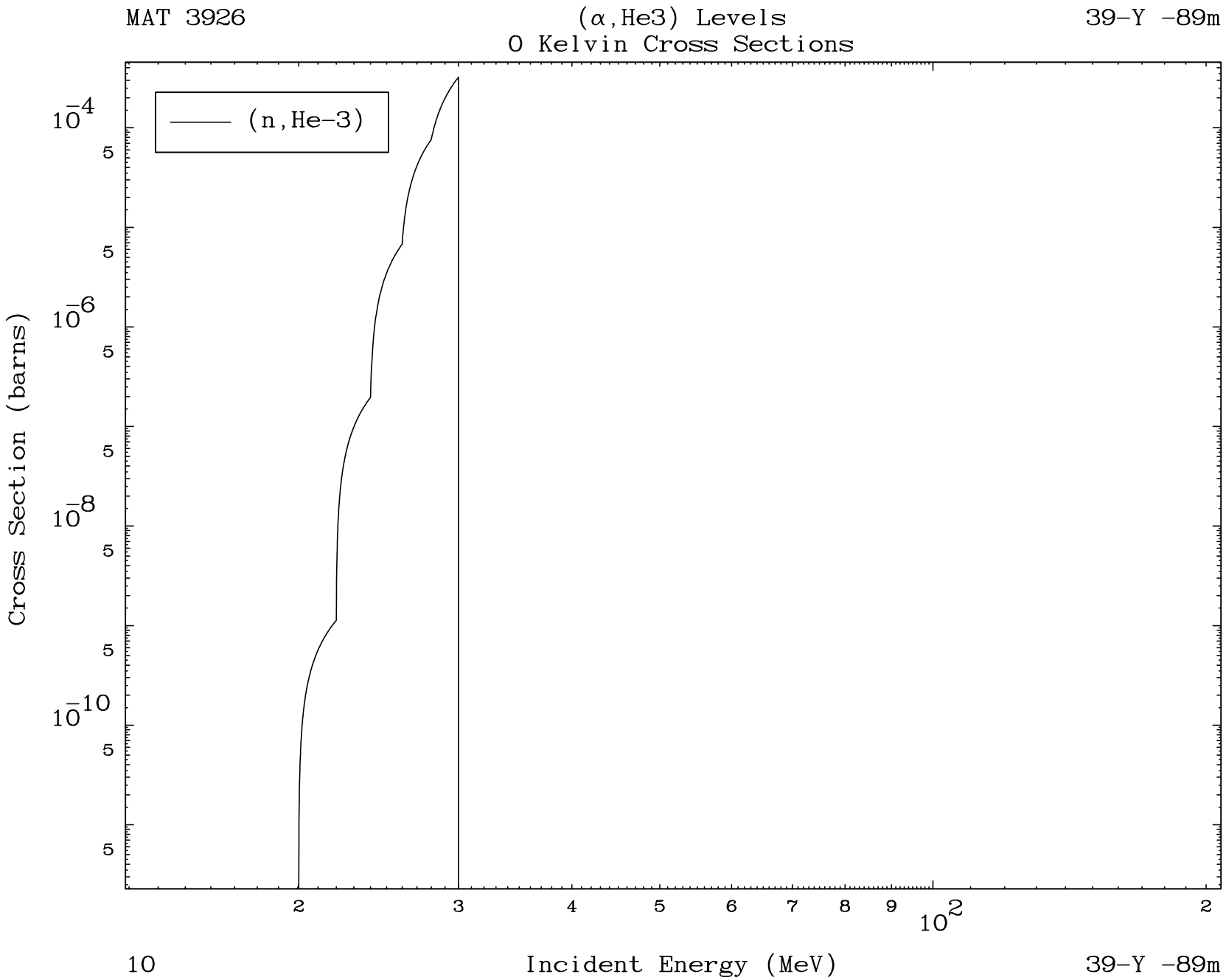

MAT 3926
α Charged Particle
0 Kelvin Cross Sections
39-Y -89m
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
5
39-Y -89m

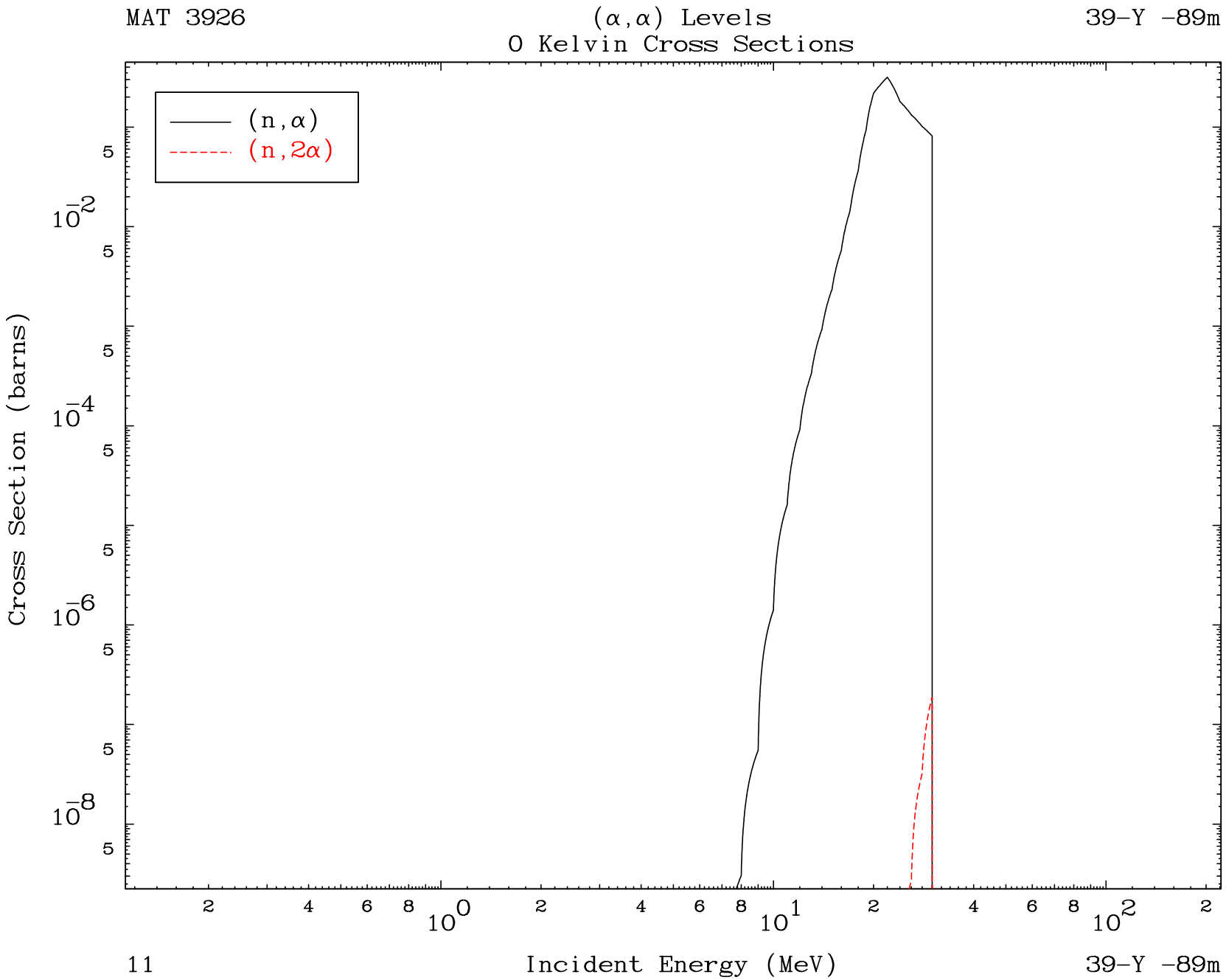

MAT 3926
α Charged Particle
0 Kelvin Cross Sections
39-Y -89m
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
6
39-Y -89m

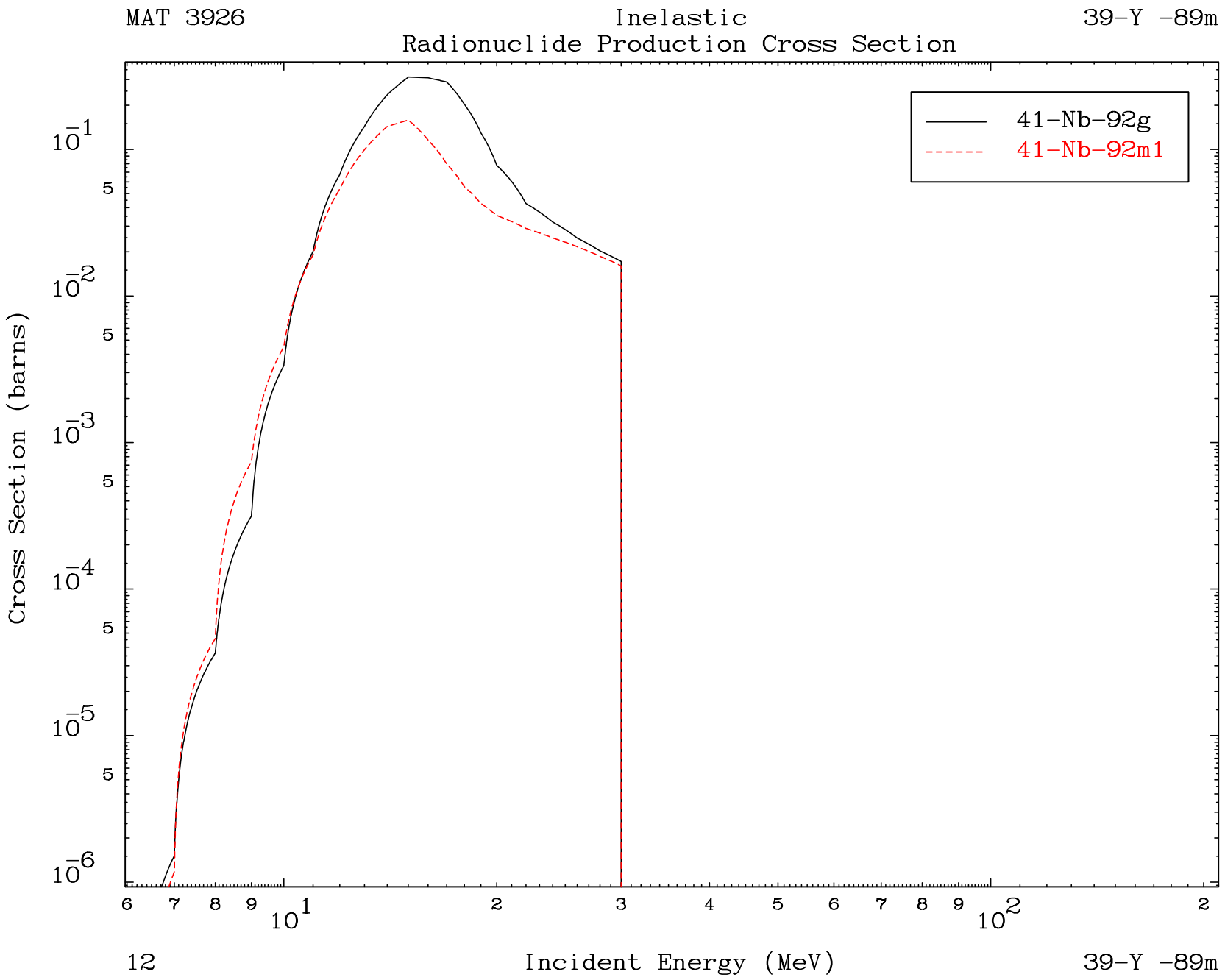

MAT 3926
(α,p) Levels
39-Y -89m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
39-Y -89m

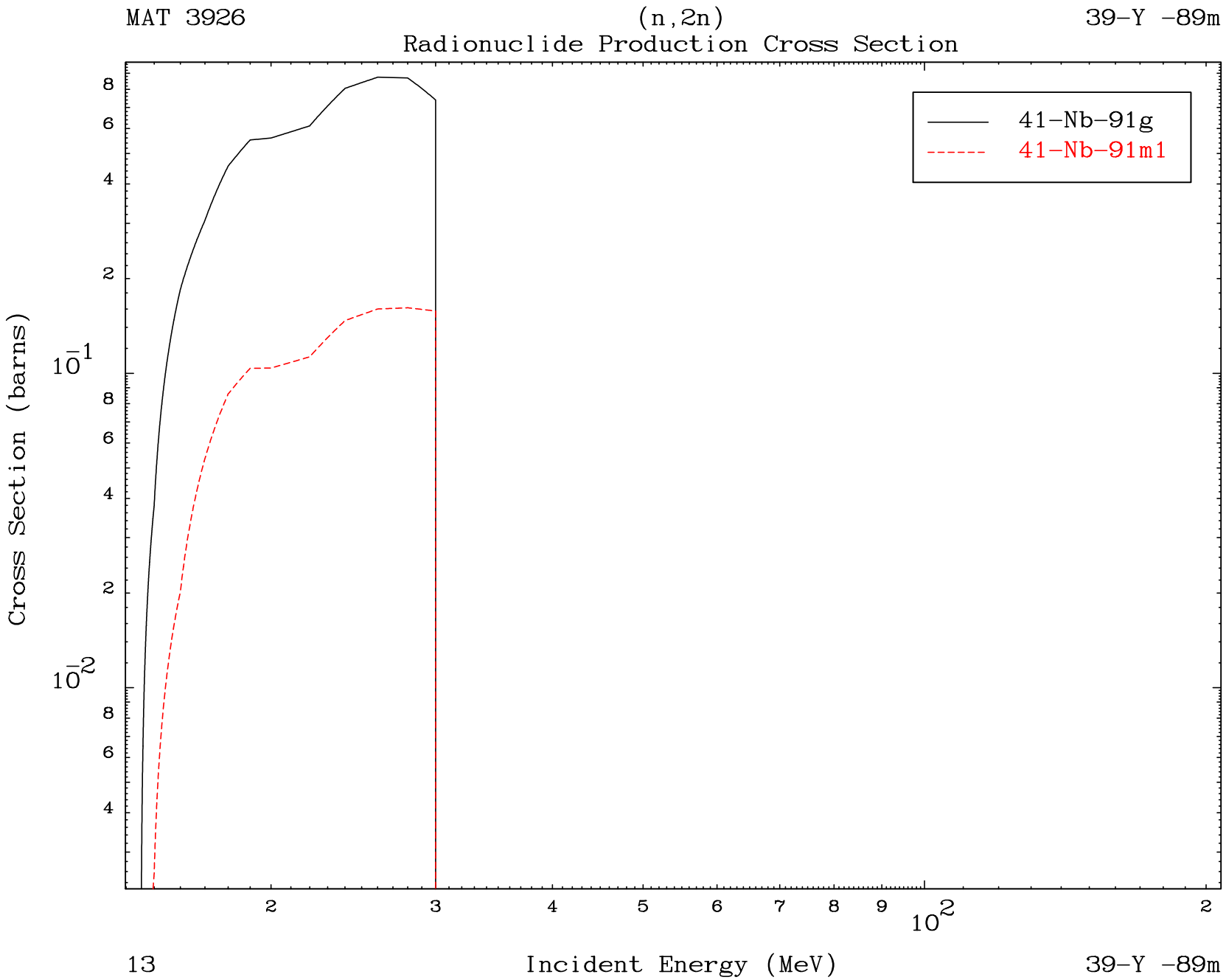

MAT 3926
(α,d) Levels
39-Y -89m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
39-Y -89m
8

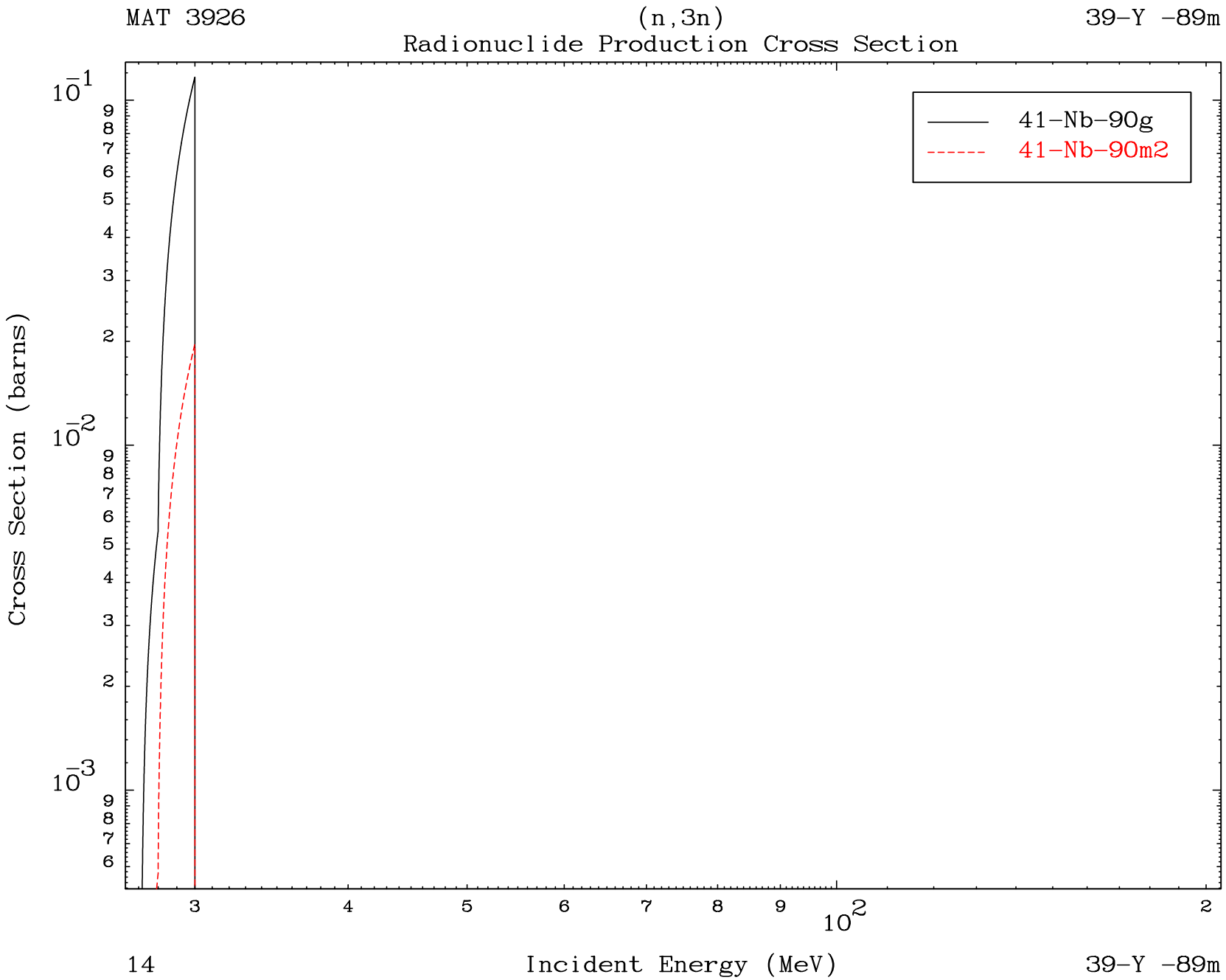

MAT 3926
(α,t) Levels
39-Y -89m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
39-Y -89m

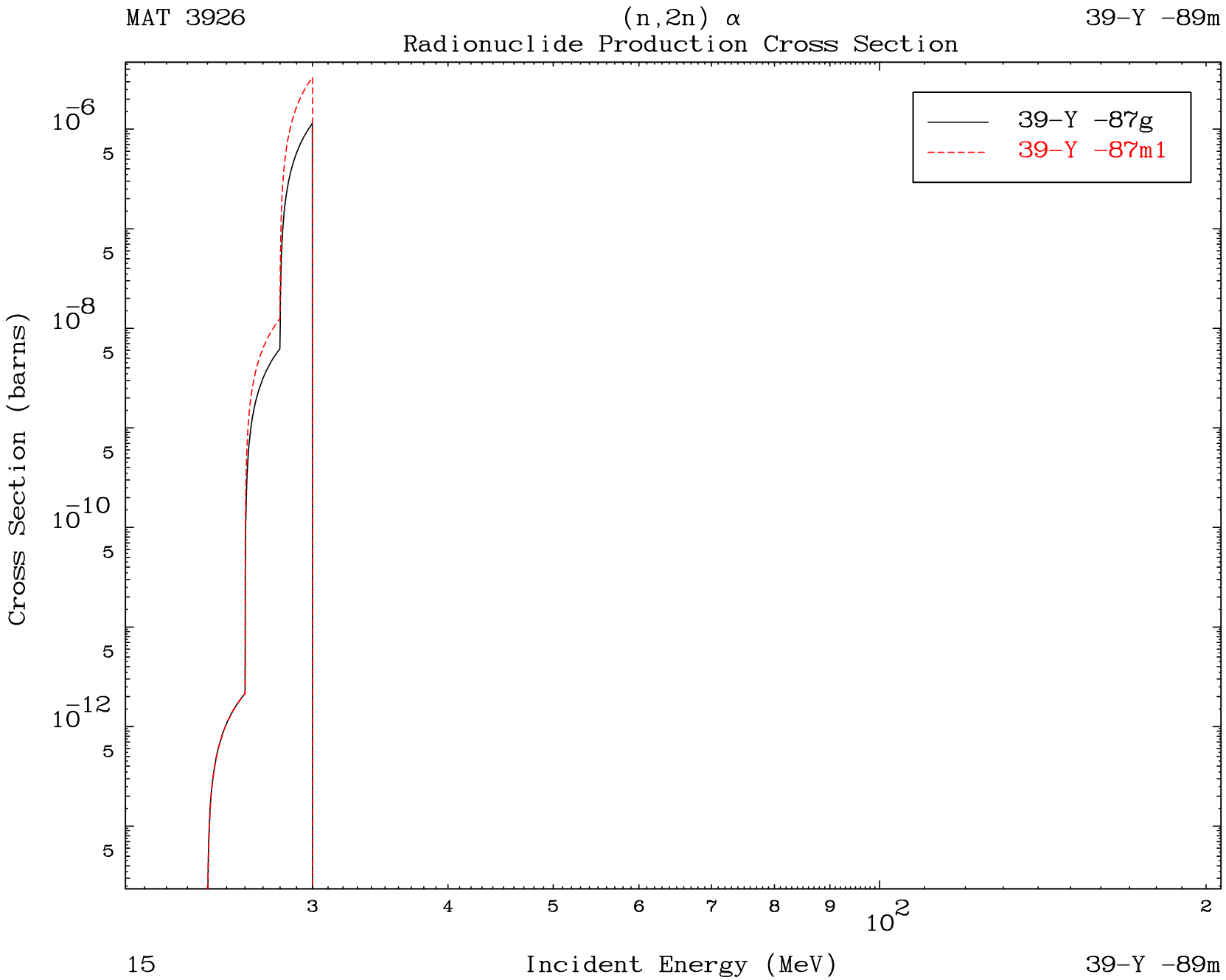

MAT 3926
(α,He3) Levels
39-Y -89m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10
10^2
39-Y -89m

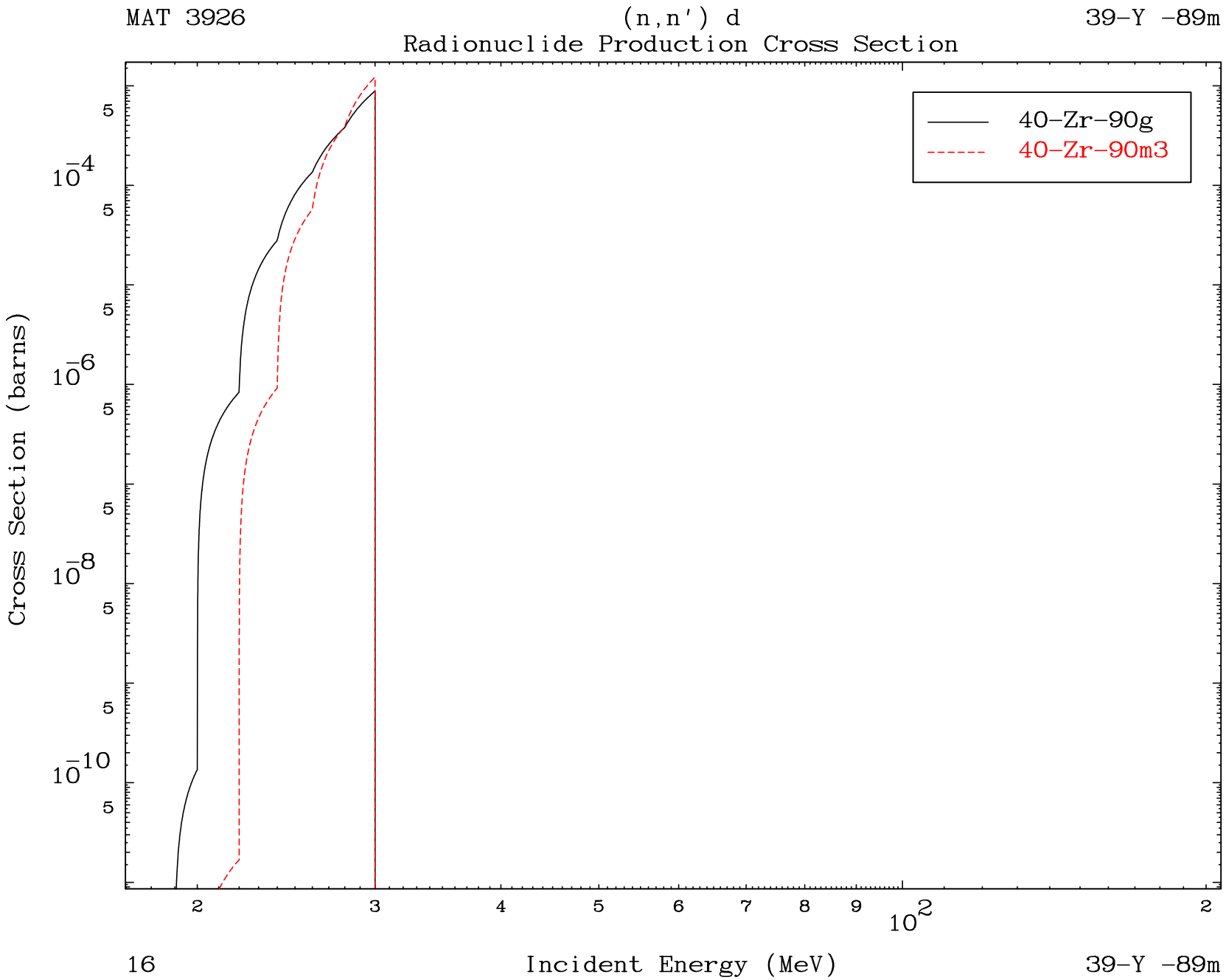

MAT 3926
(α,α) Levels
39-Y -89m
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
11
39-Y -89m

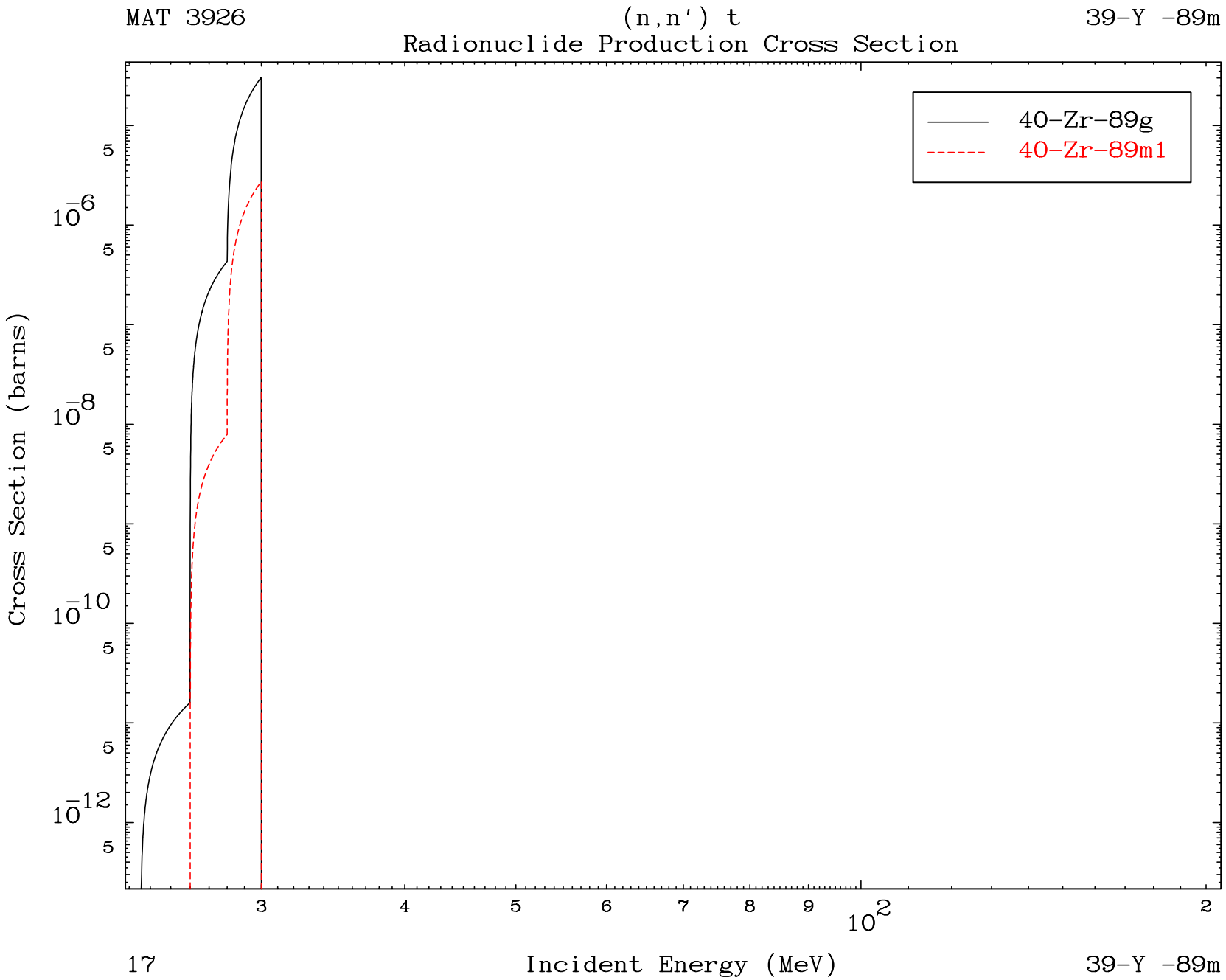

MAT 3926
Inelastic
39-Y -89m
Radionuclide Production Cross Section
41-Nb-92g
41-Nb-92m1
Cross Section (barns)
Incident Energy (MeV)
12
39-Y -89m

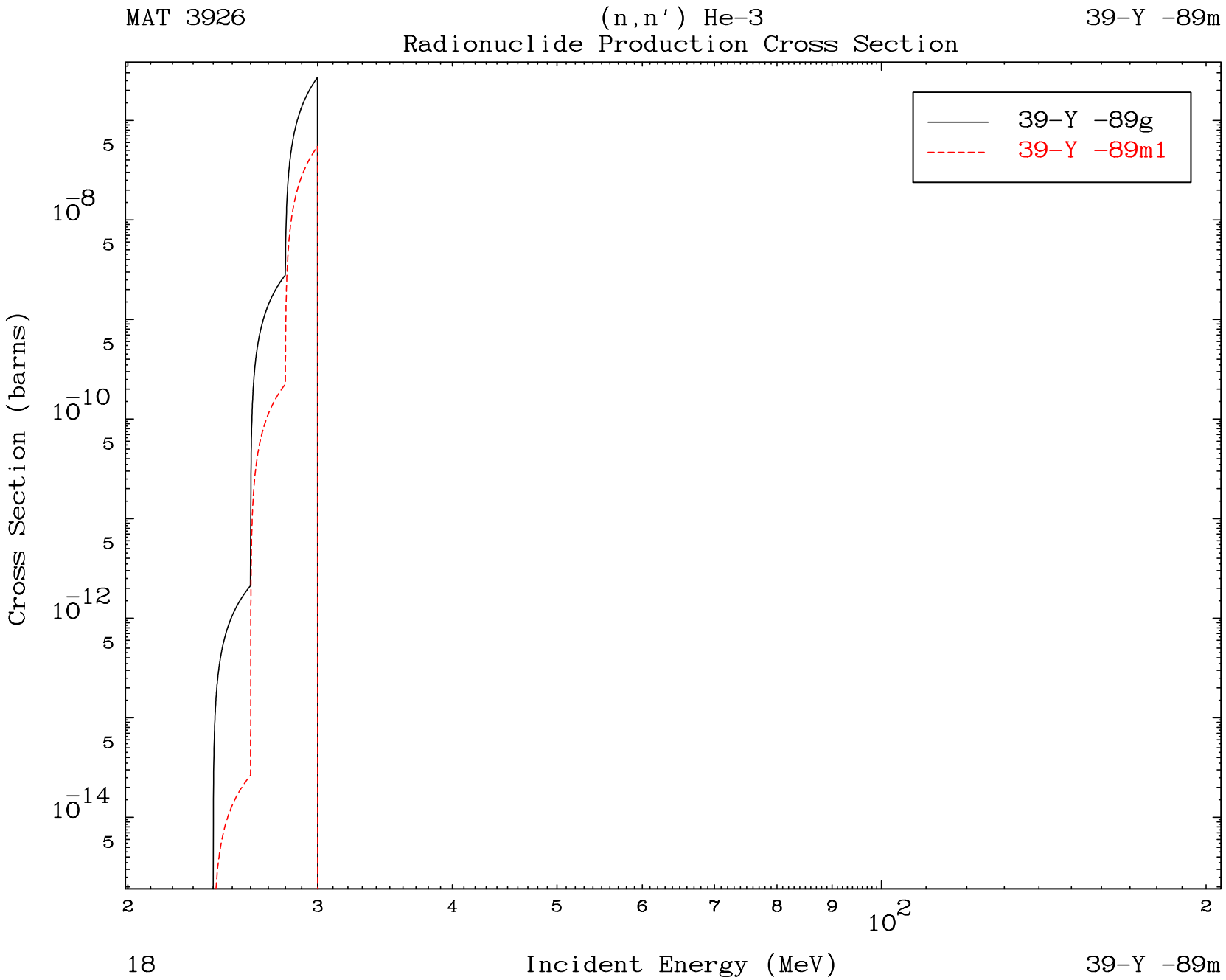

MAT 3926
(n,2n)
39-Y -89m
Radionuclide Production Cross Section
41-Nb-91g
41-Nb-91m1
Cross Section (barns)
Incident Energy (MeV)
13
39-Y -89m

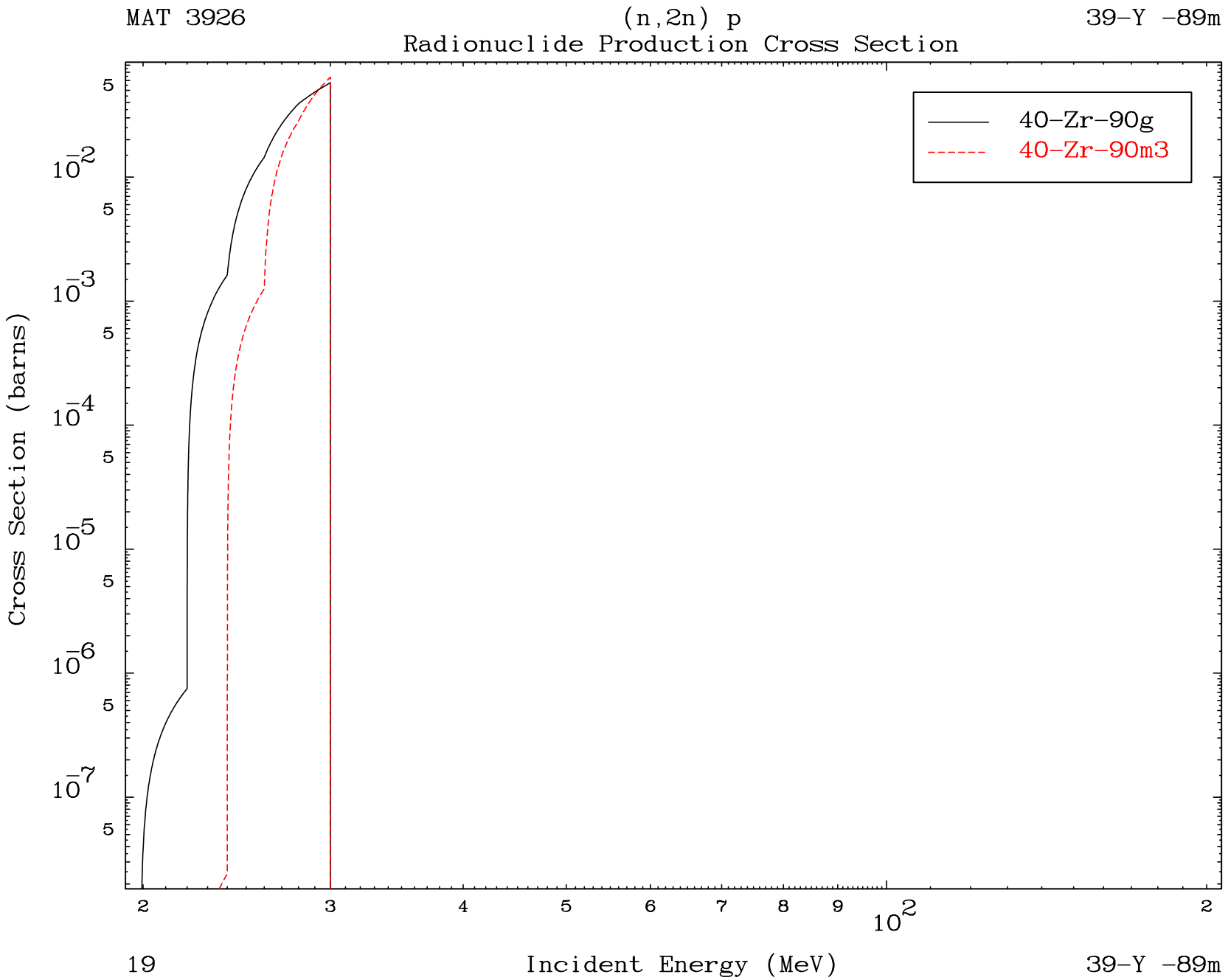

MAT 3926
(n,3n)
39-Y -89m
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
Incident Energy (MeV)
14
39-Y -89m

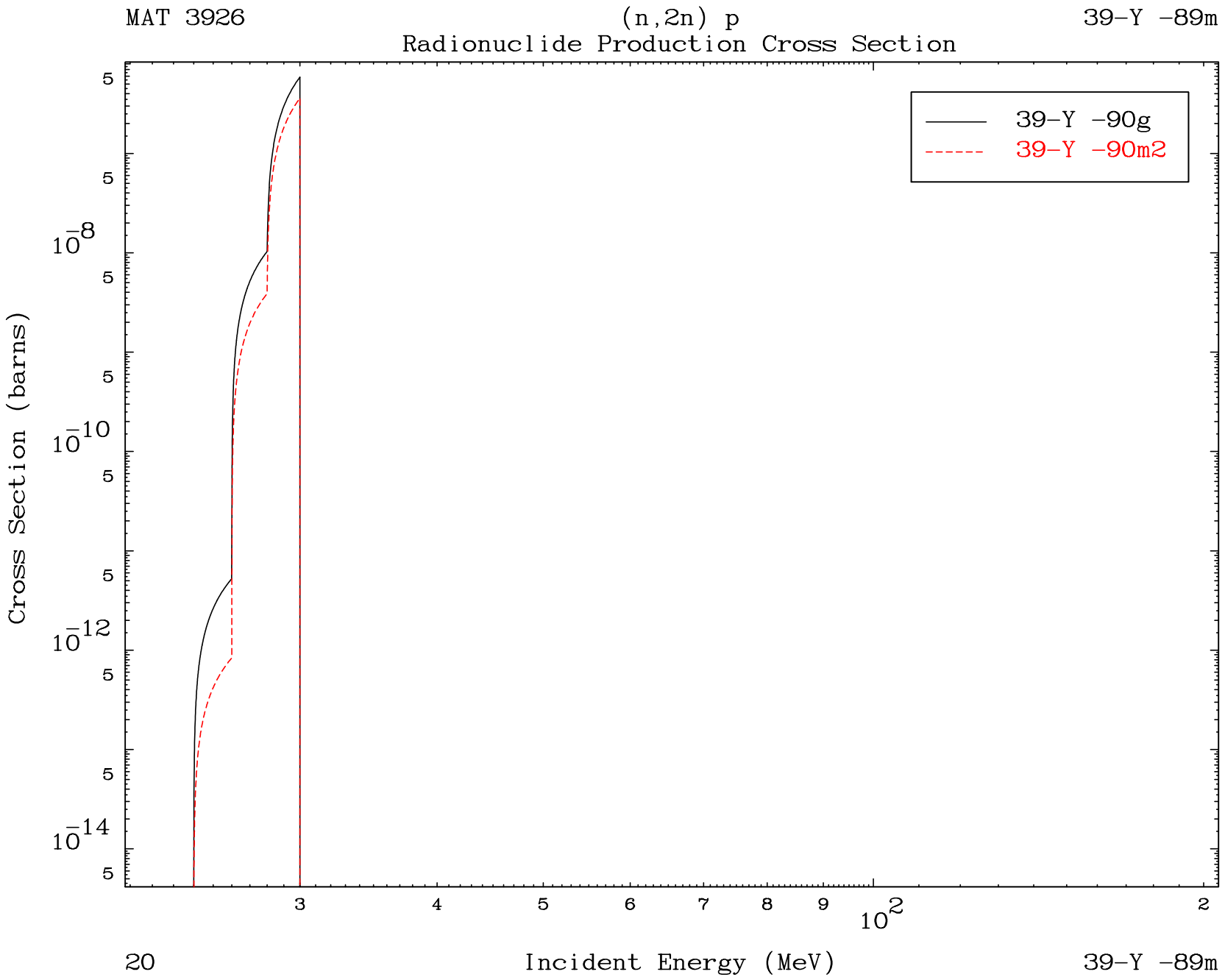

MAT 3926
(n,2n) α
39-Y -89m
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
39-Y -89m

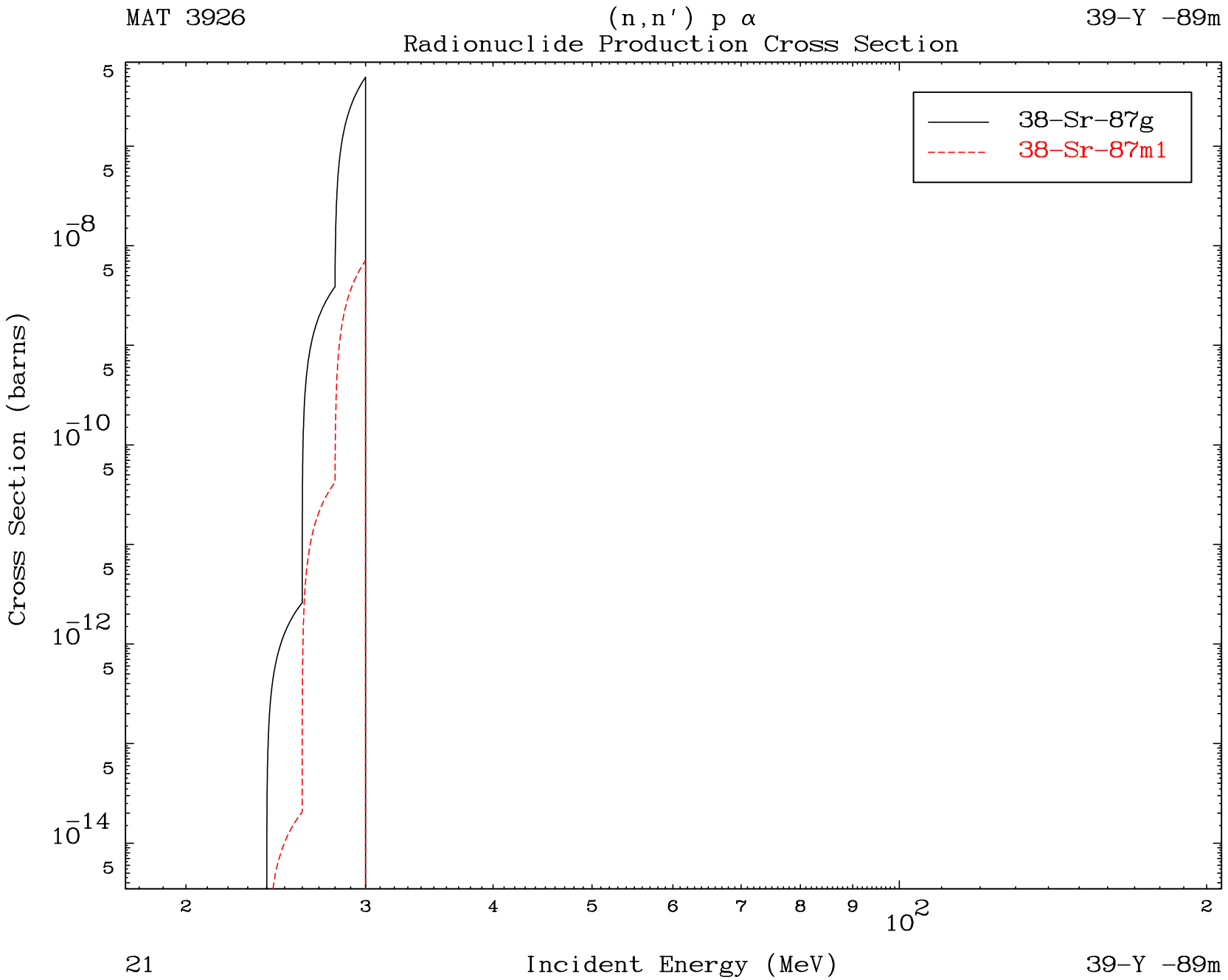

MAT 3926
(n,n') d
39-Y -89m
Radionuclide Production Cross Section
40-Zr-90g
40-Zr-90m3
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
39-Y -89m

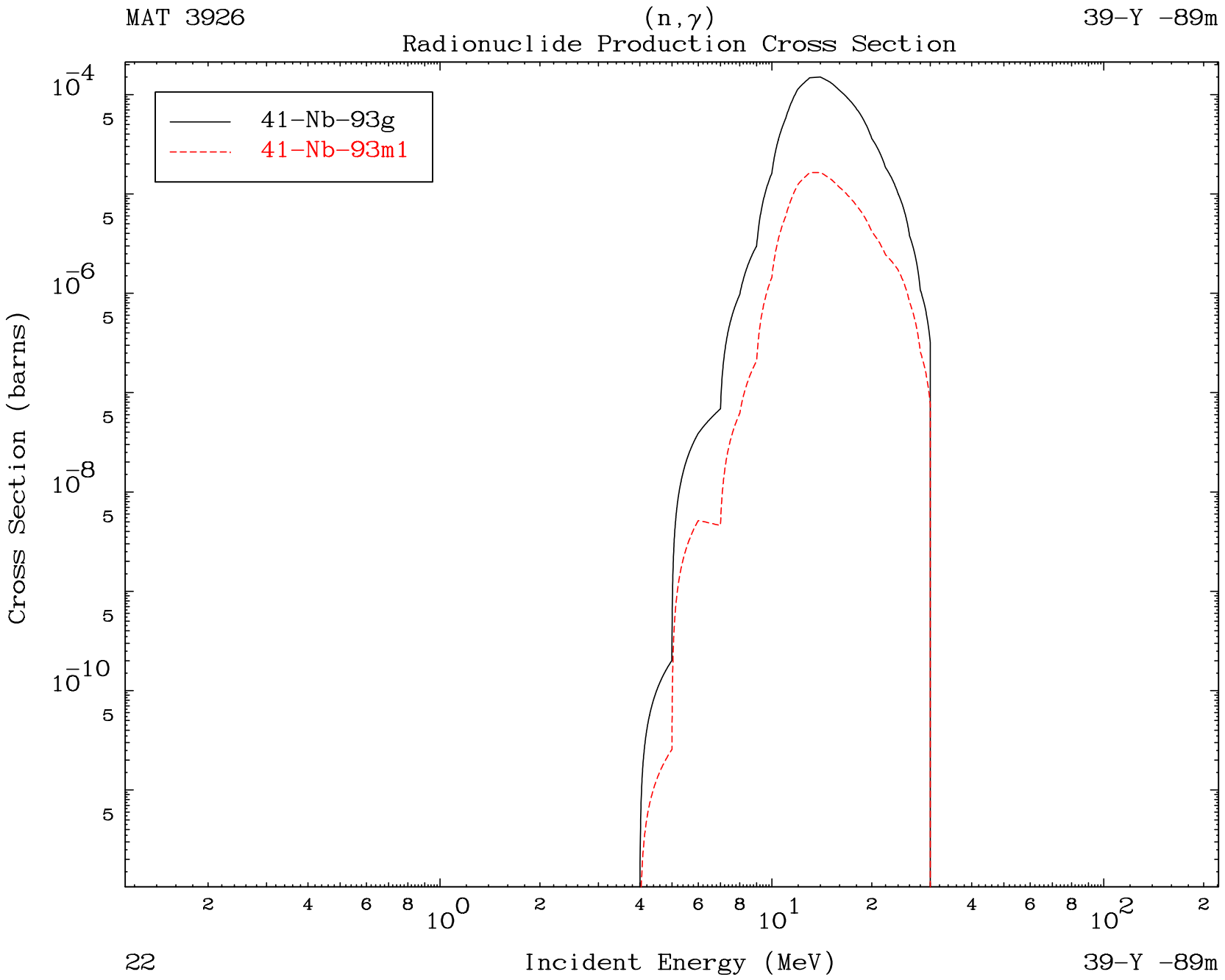

MAT 3926
(n,n') t
39-Y -89m
Radionuclide Production Cross Section
40-Zr-89g
40-Zr-89m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
39-Y -89m

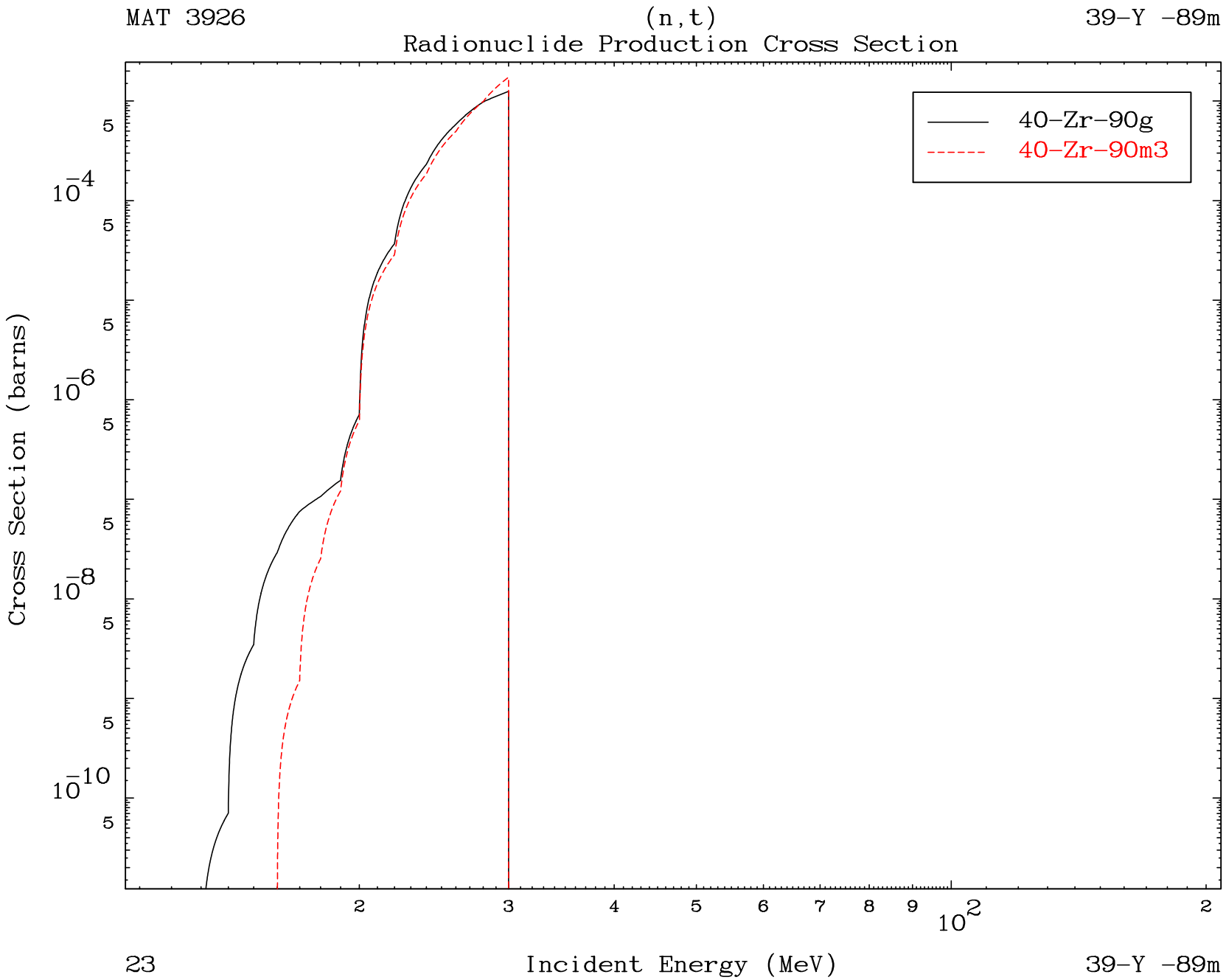

MAT 3926
(n,n') He-3
39-Y -89m
Radionuclide Production Cross Section
39-Y -89g
39-Y -89m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
39-Y -89m

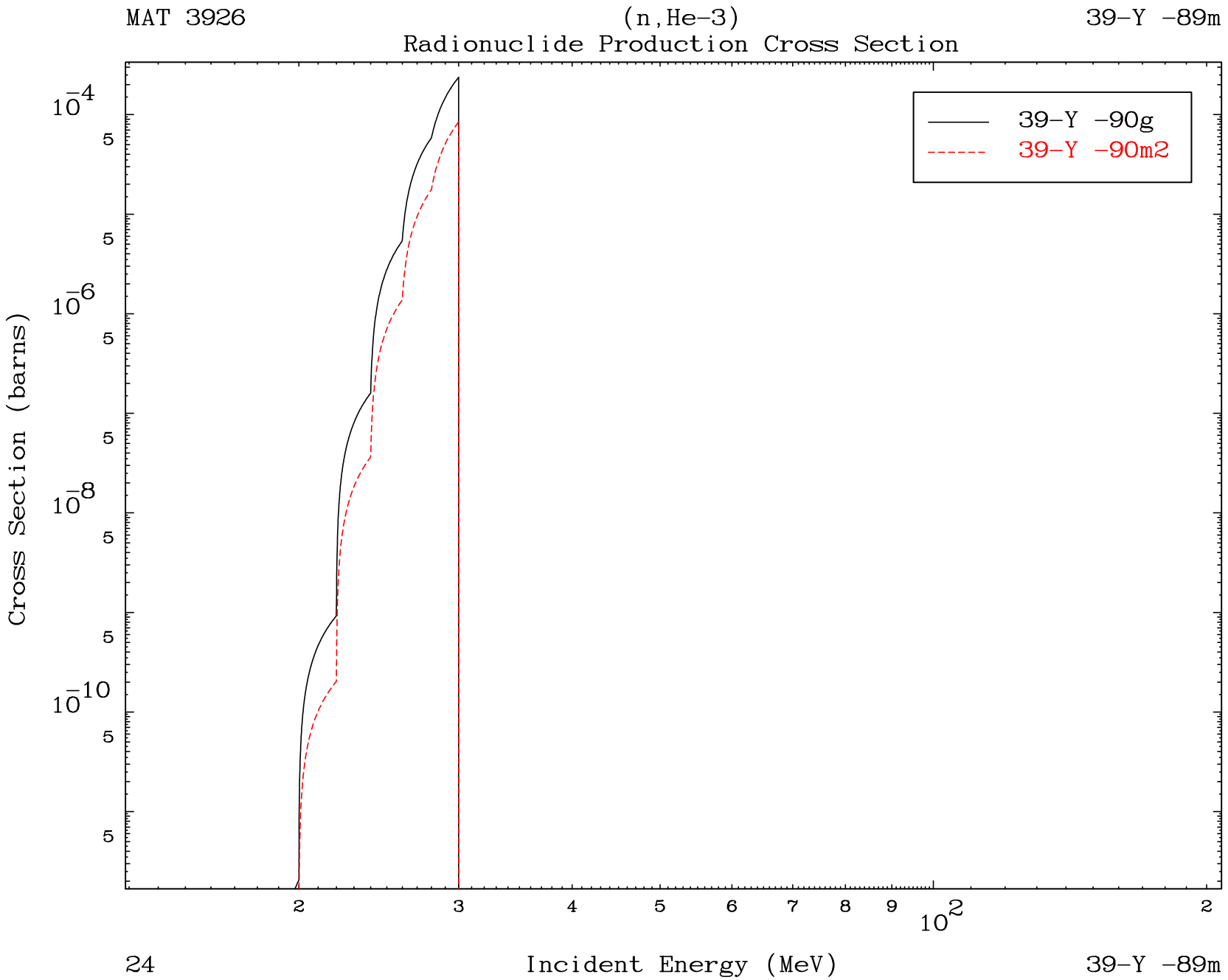

MAT 3926
(n,2n) p
39-Y -89m
Radionuclide Production Cross Section
40-Zr-90g
40-Zr-90m3
Cross Section (barns)
Incident Energy (MeV)
19
39-Y -89m

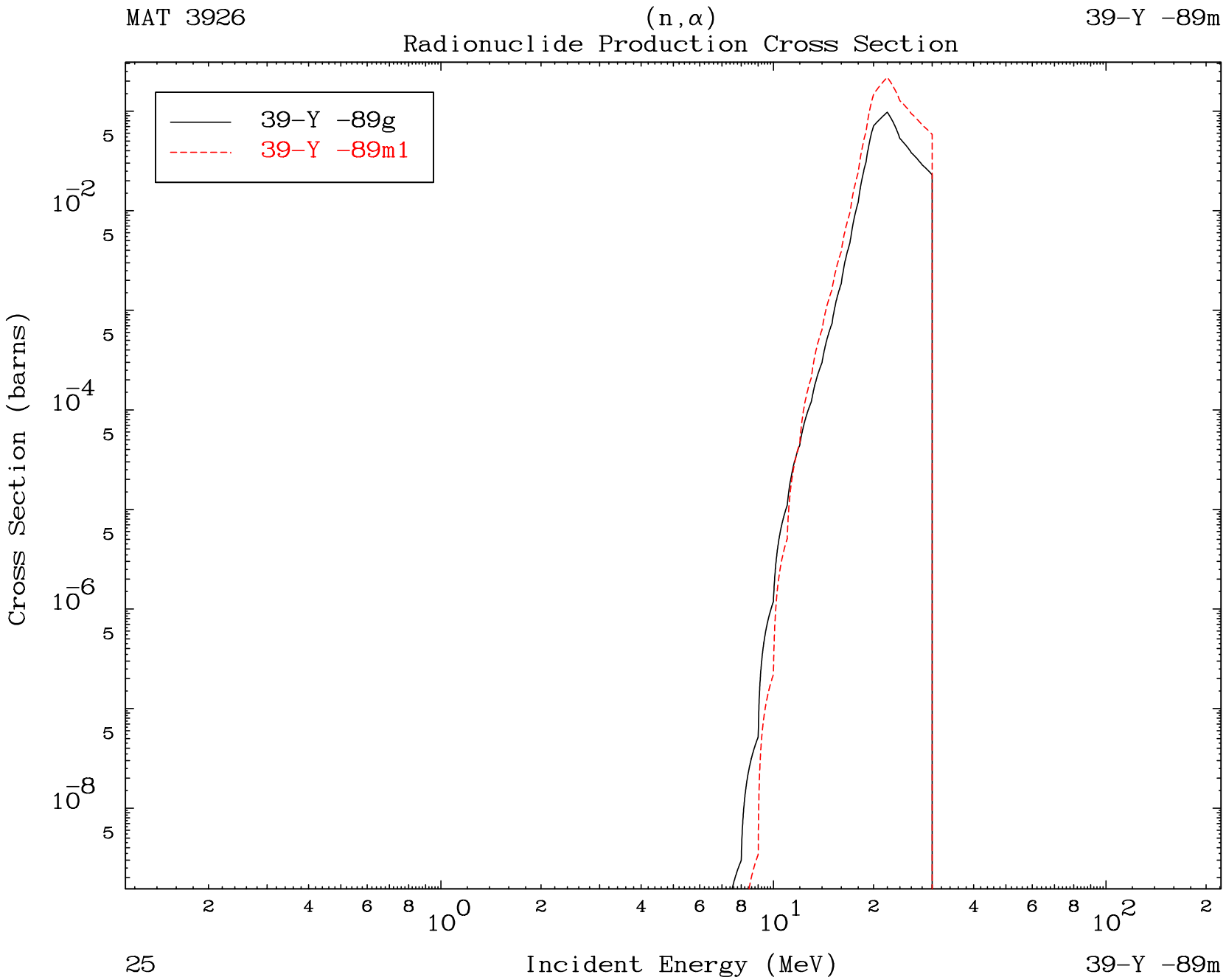

MAT 3926
(n,2n) p
39-Y -89m
Radionuclide Production Cross Section
39-Y -90g
39-Y -90m2
Cross Section (barns)
Incident Energy (MeV)
20
39-Y -89m

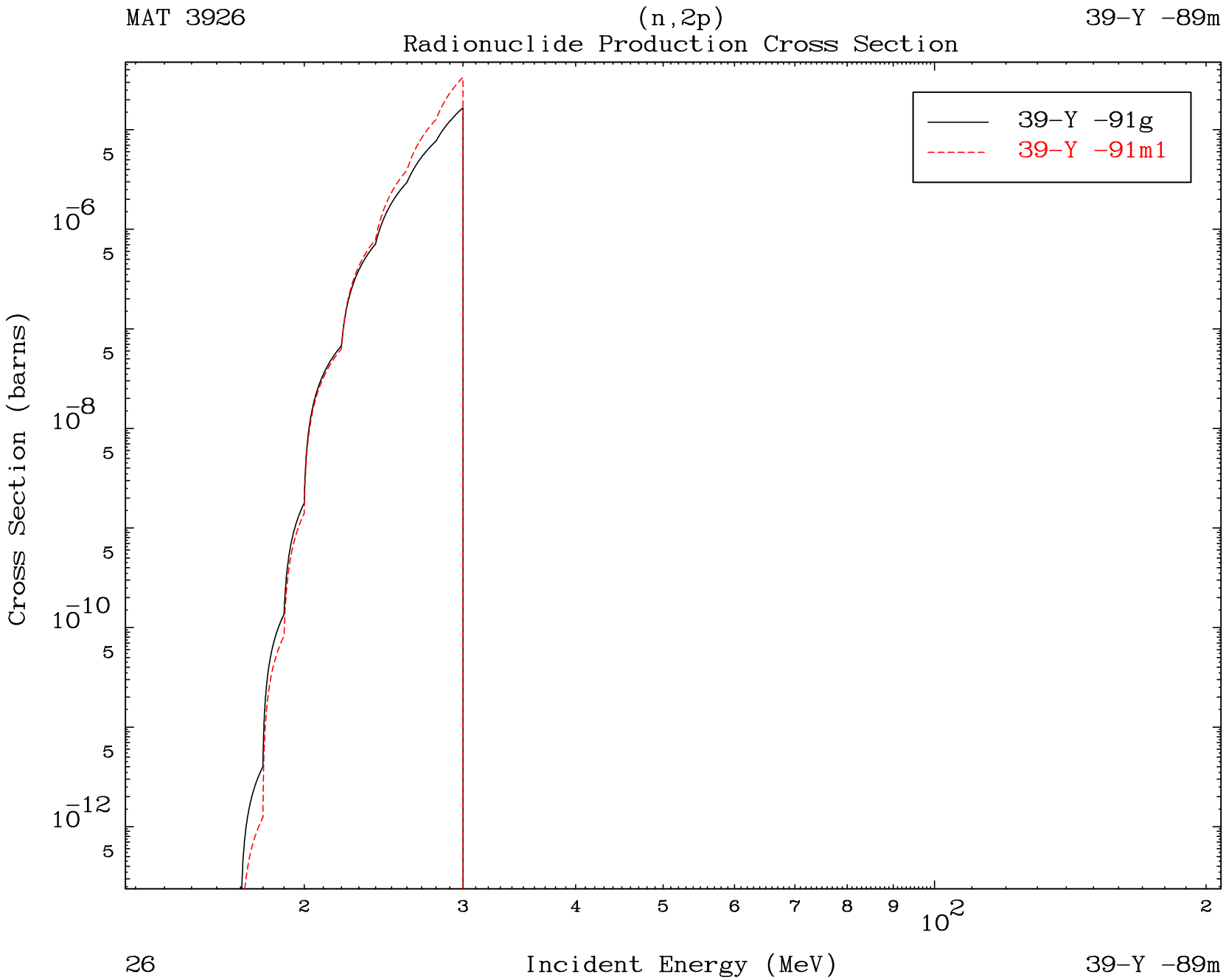

MAT 3926
(n,n') p α
39-Y -89m
Radionuclide Production Cross Section
38-Sr-87g
38-Sr-87m1
Cross Section (barns)
Incident Energy (MeV)
21
39-Y -89m

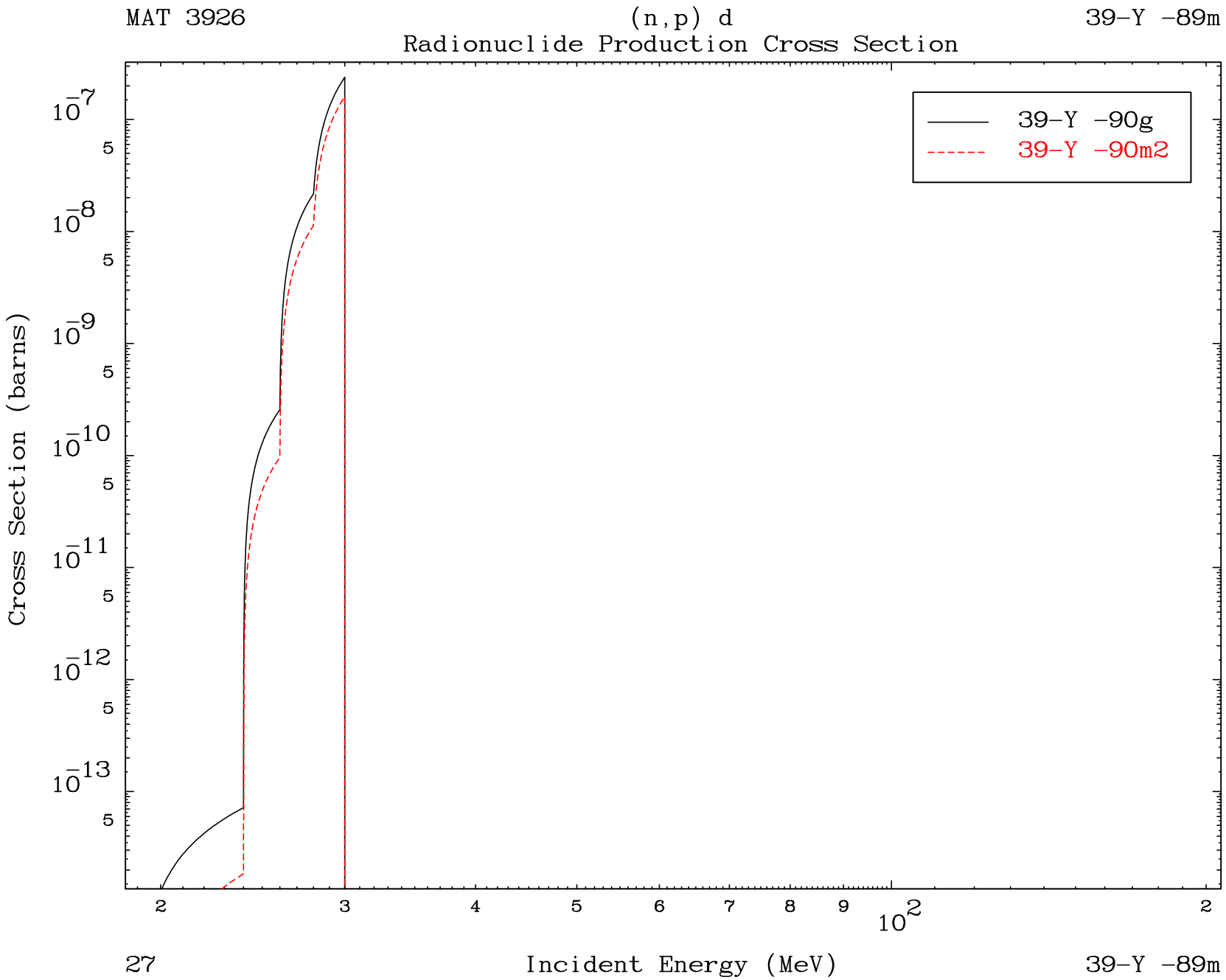

MAT 3926
(n,γ)
39-Y -89m
Radionuclide Production Cross Section
41-Nb-93g
41-Nb-93m1
Cross Section (barns)
Incident Energy (MeV)
22
39-Y -89m

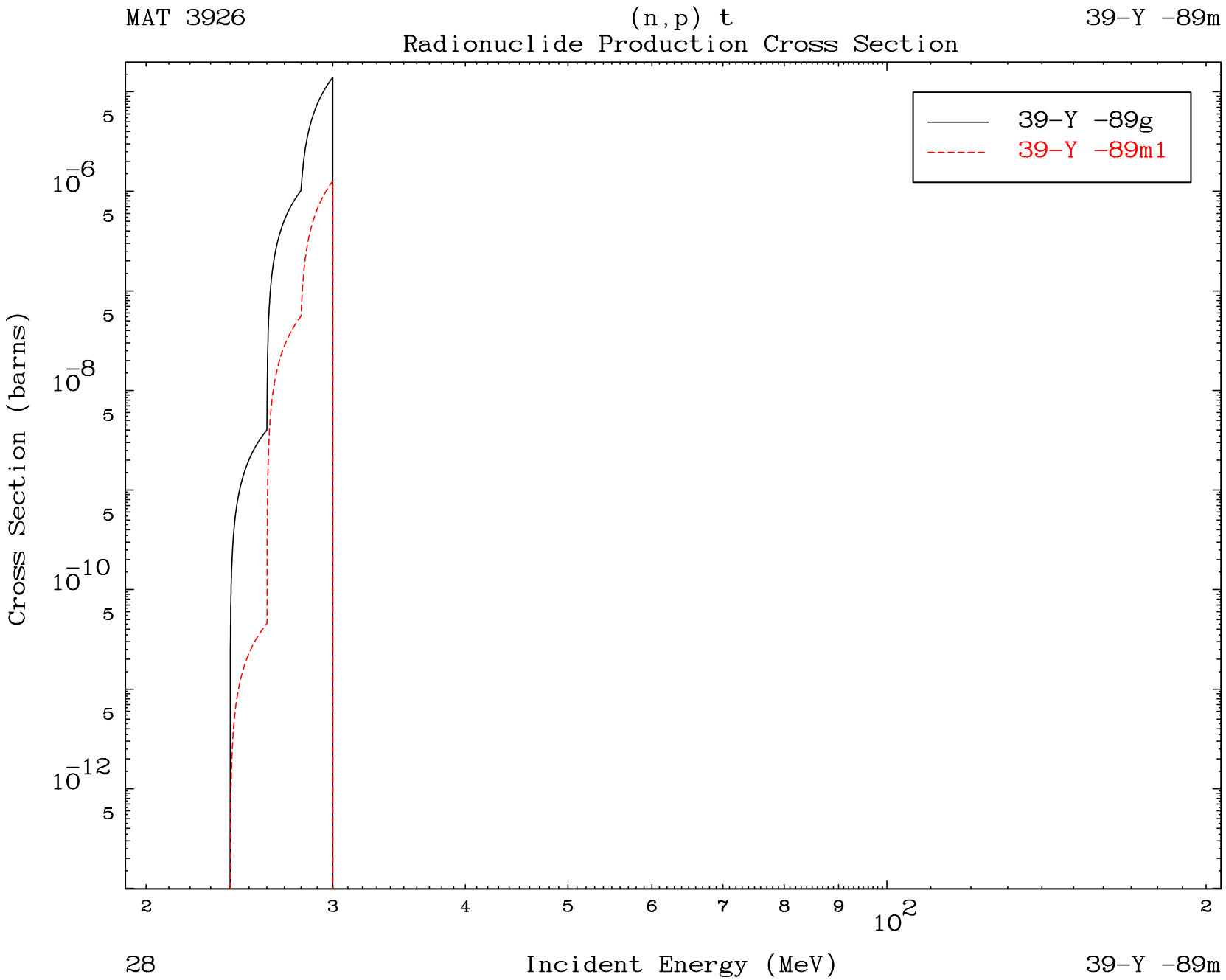

MAT 3926
(n,t)
39-Y -89m
Radionuclide Production Cross Section
40-Zr-90g
40-Zr-90m3
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
23
39-Y -89m

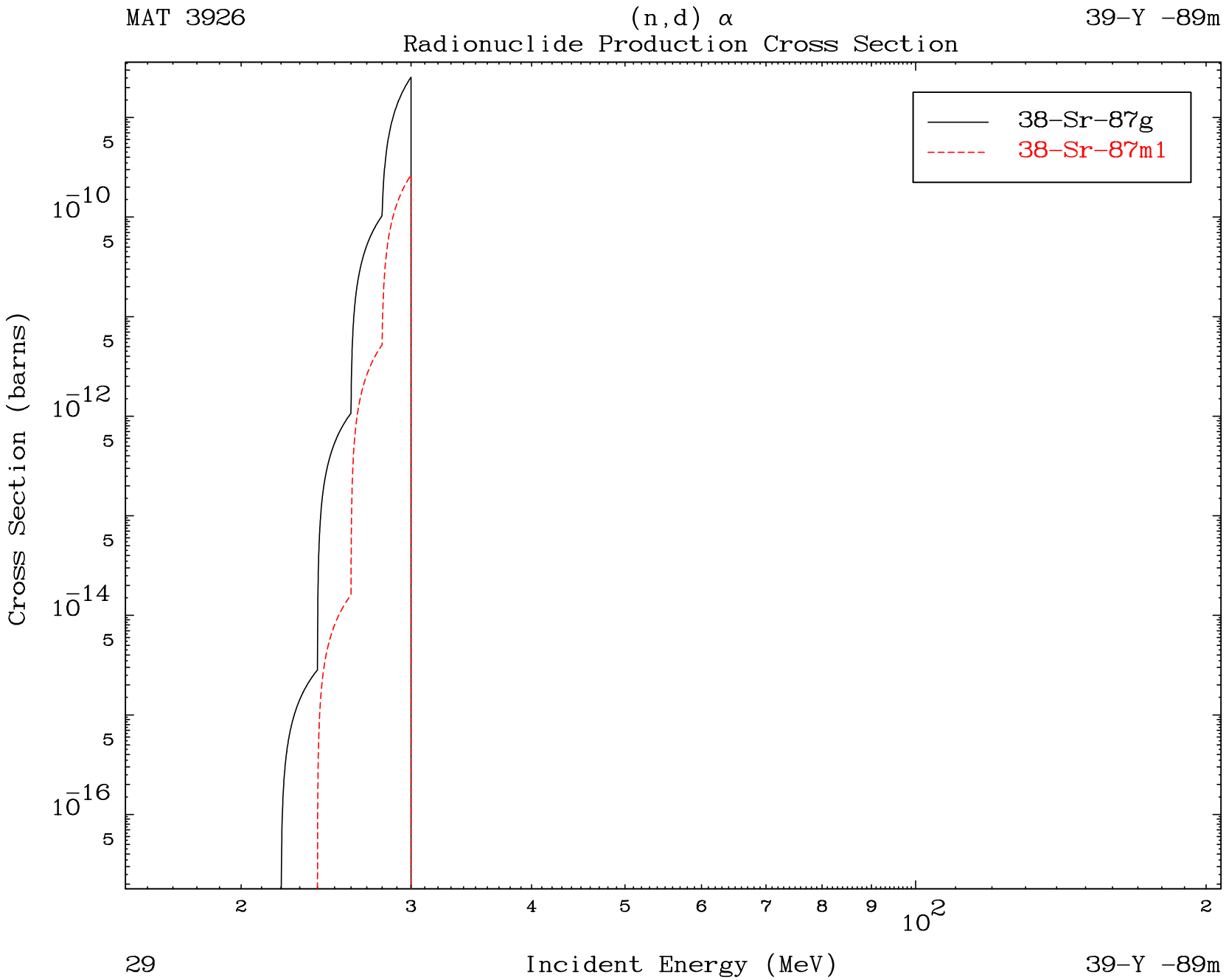

MAT 3926
(n,He-3)
39-Y -89m
Radionuclide Production Cross Section
39-Y -90g
39-Y -90m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
24
39-Y -89m


MAT 3926
(n,α)
39-Y -89m
Radionuclide Production Cross Section
39-Y -89g
39-Y -89m1
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
25
39-Y -89m


MAT 3926
(n,2p)
39-Y -89m
Radionuclide Production Cross Section
39-Y -91g
39-Y -91m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
6
7
8
9
10 2
Incident Energy (MeV)
26
39-Y -89m


MAT 3926
(n,p) d
39-Y -89m
Radionuclide Production Cross Section
39-Y -90g
39-Y -90m2
Cross Section (barns)
Incident Energy (MeV)
27
39-Y -89m


MAT 3926
(n,p) t
39-Y -89m
Radionuclide Production Cross Section
39-Y -89g
39-Y -89m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
28
Incident Energy (MeV)
39-Y -89m


MAT 3926
(n,d) α
39-Y -89m
Radionuclide Production Cross Section
38-Sr-87g
38-Sr-87m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
29
39-Y -89m