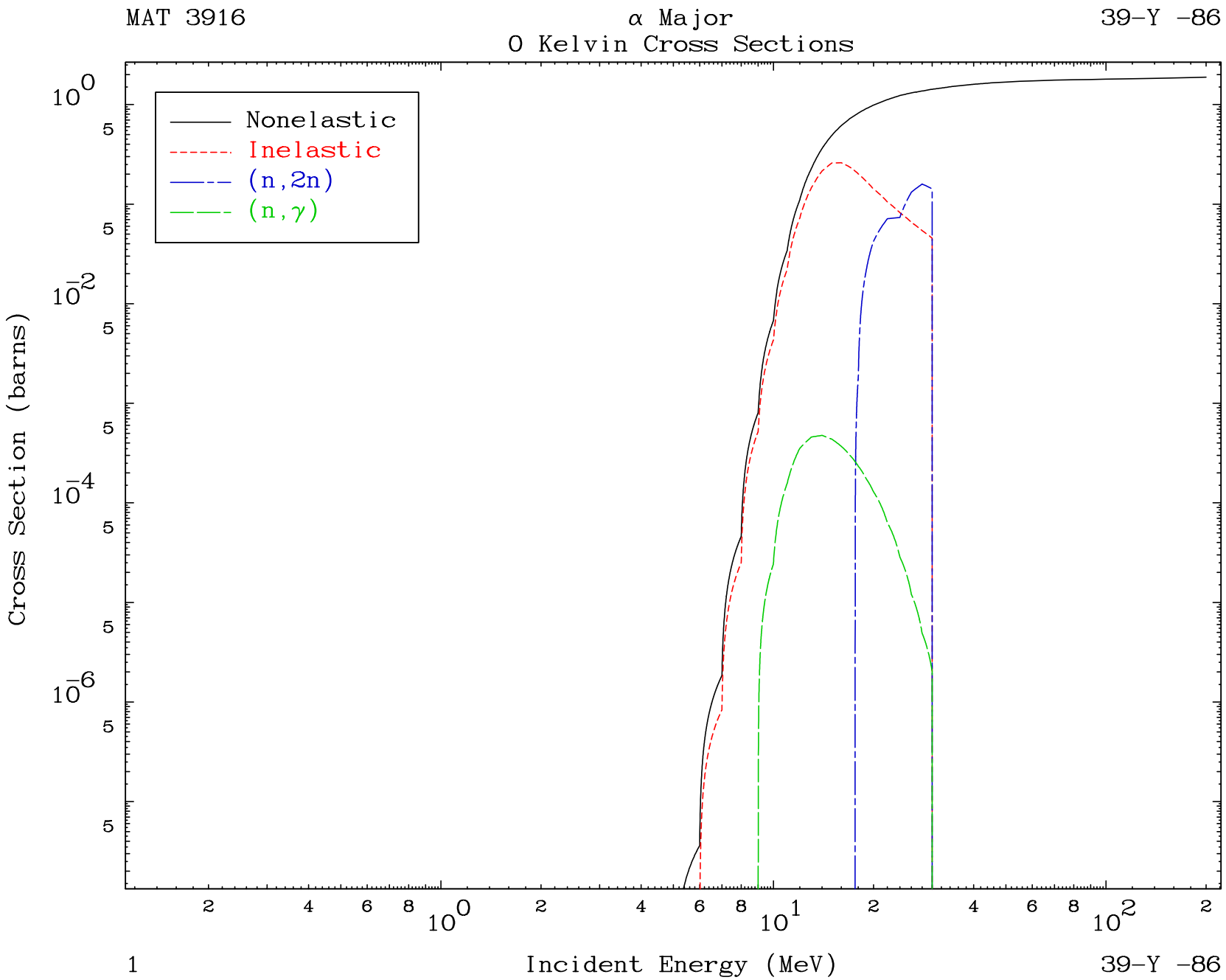
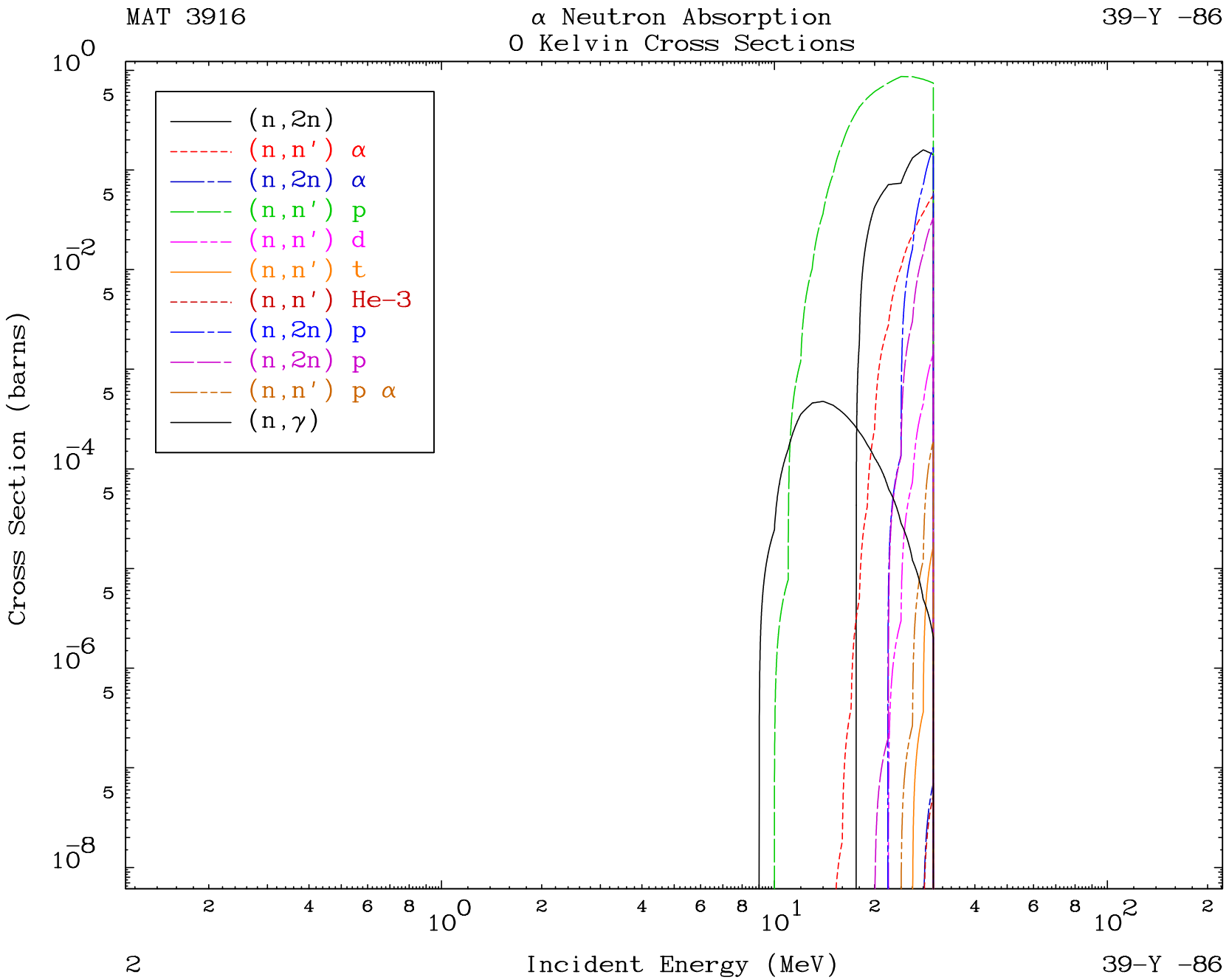
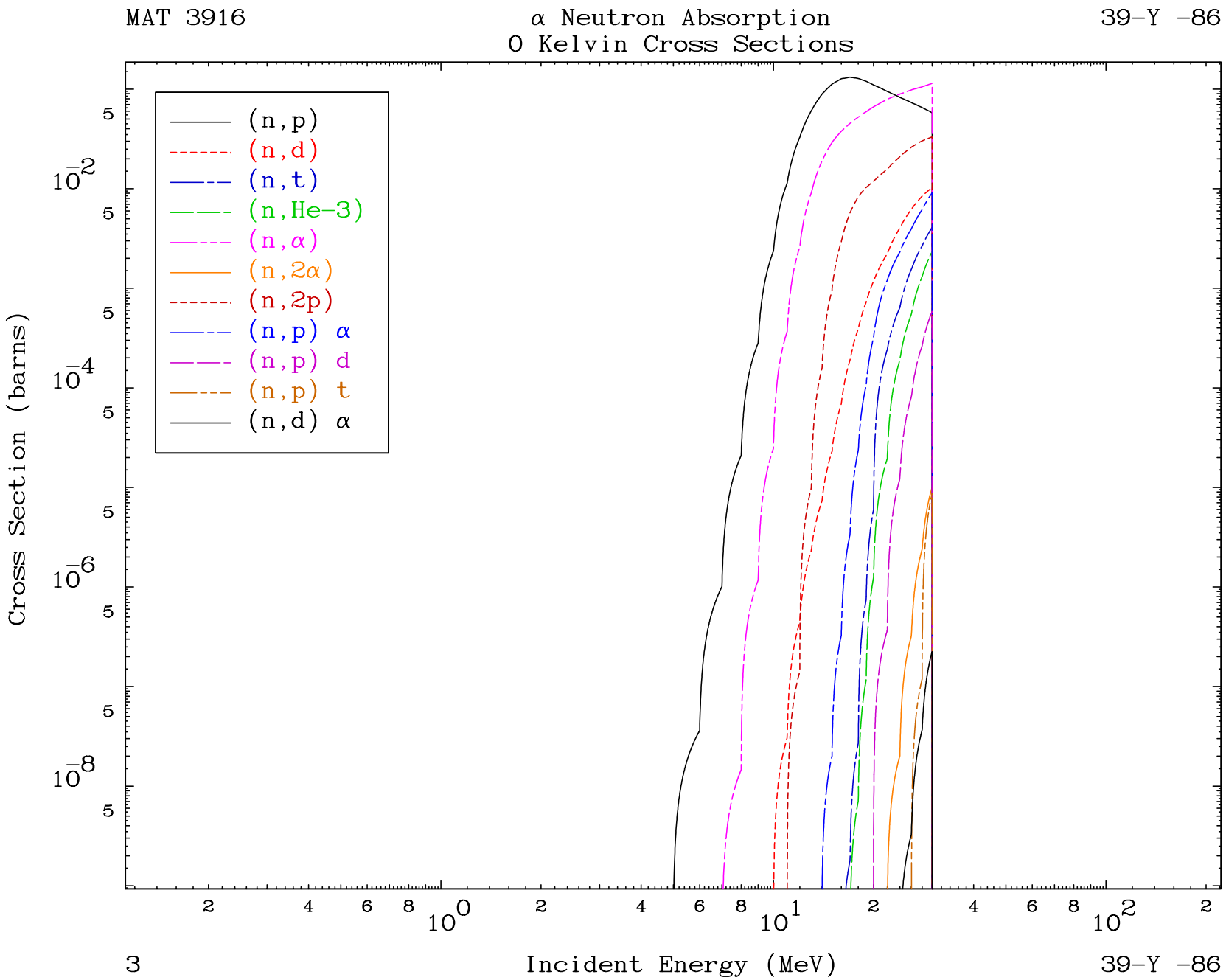
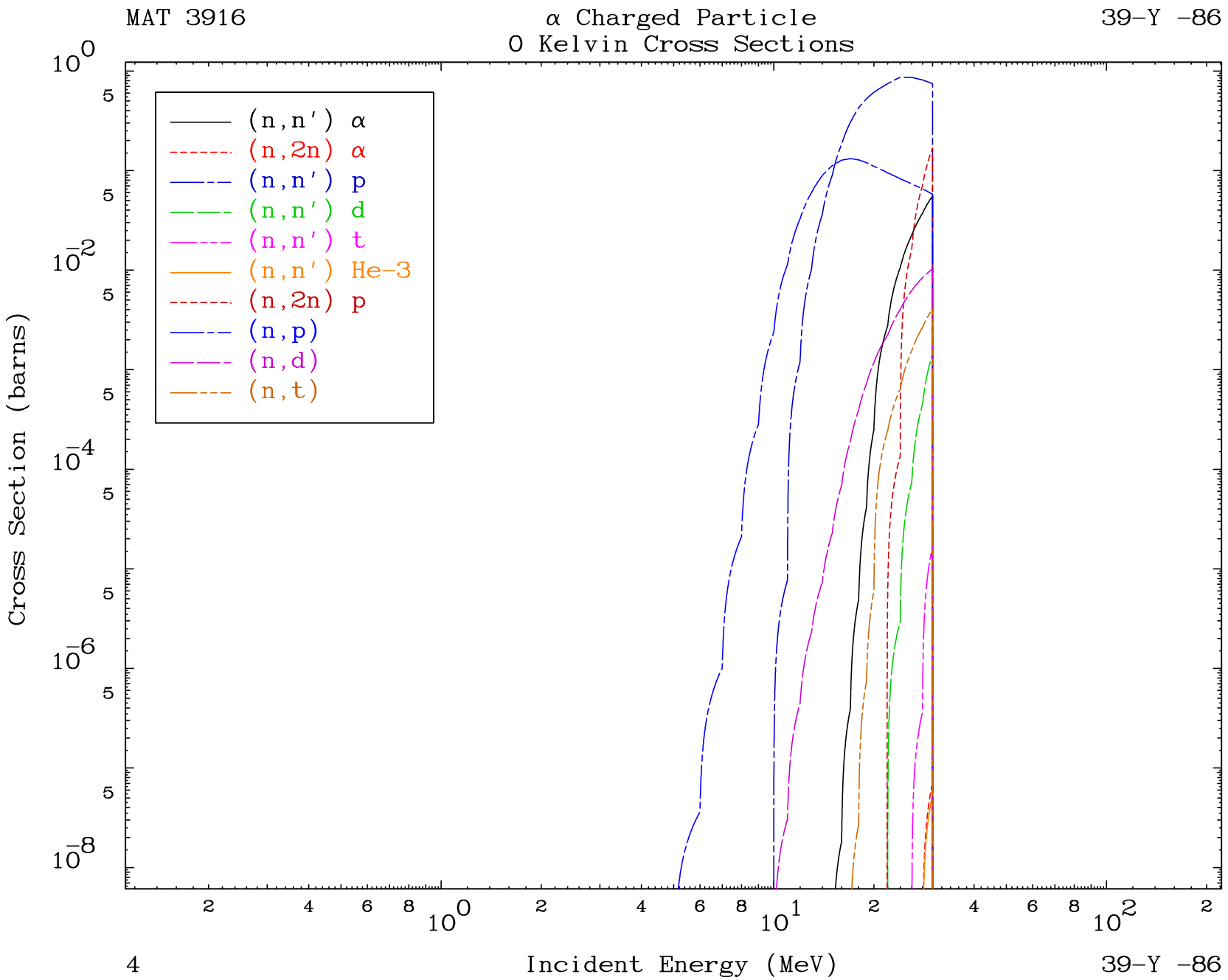
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

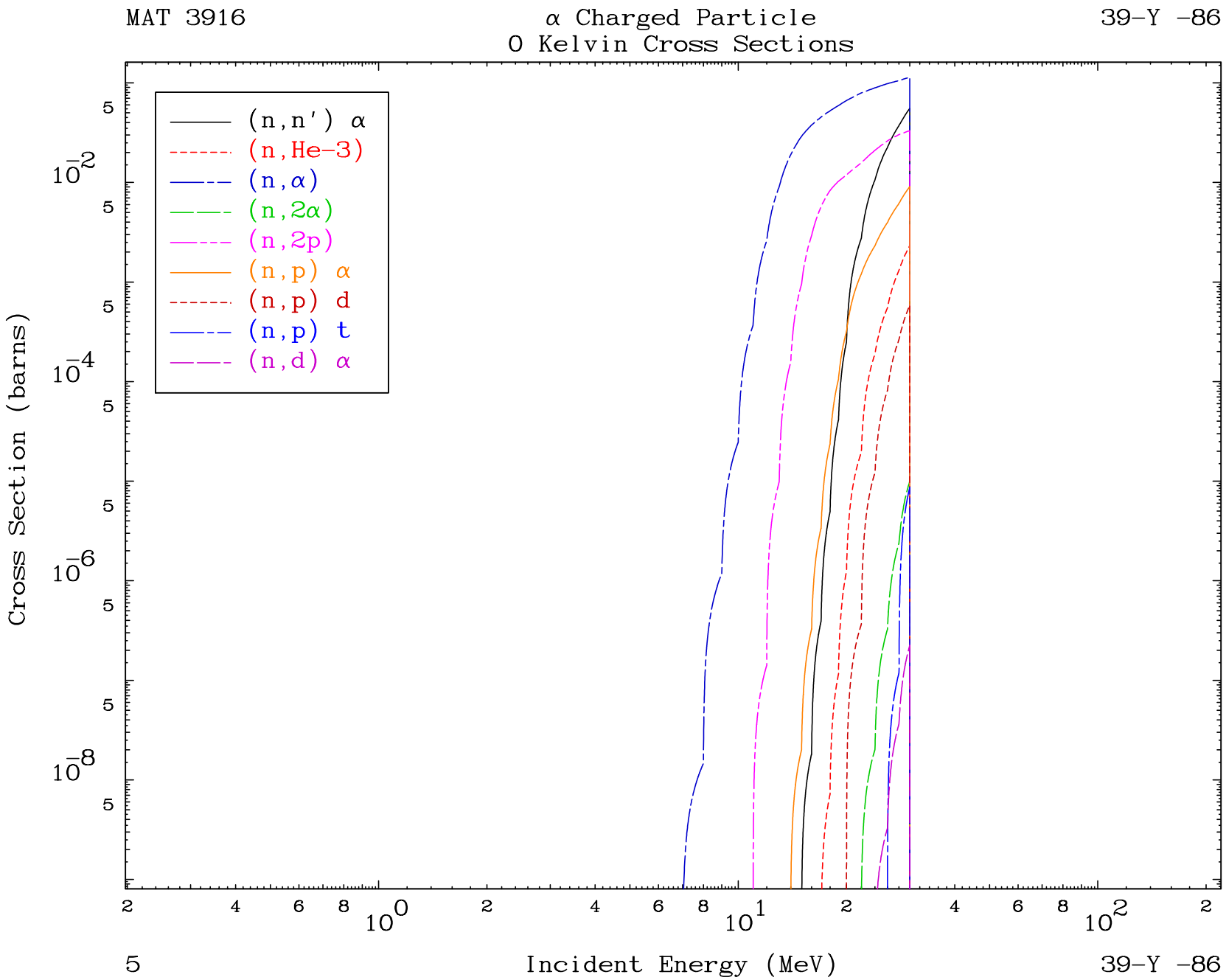
Press Mouse Button to Start


MAT 3916
α Major
39-Y -86
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
39-Y -86
1

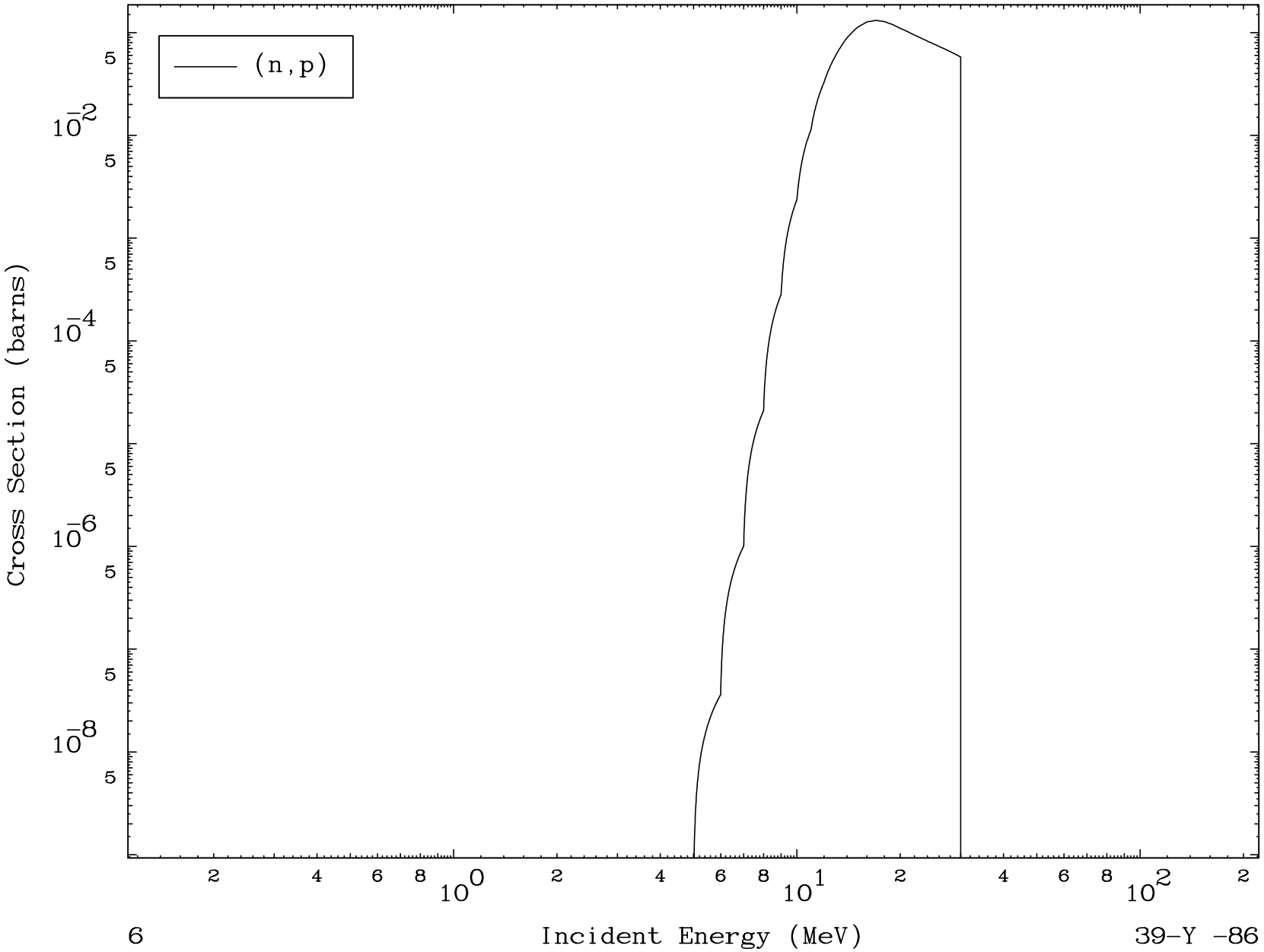

MAT 3916
α Neutron Absorption
0 Kelvin Cross Sections
39-Y -86
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
2
39-Y -86

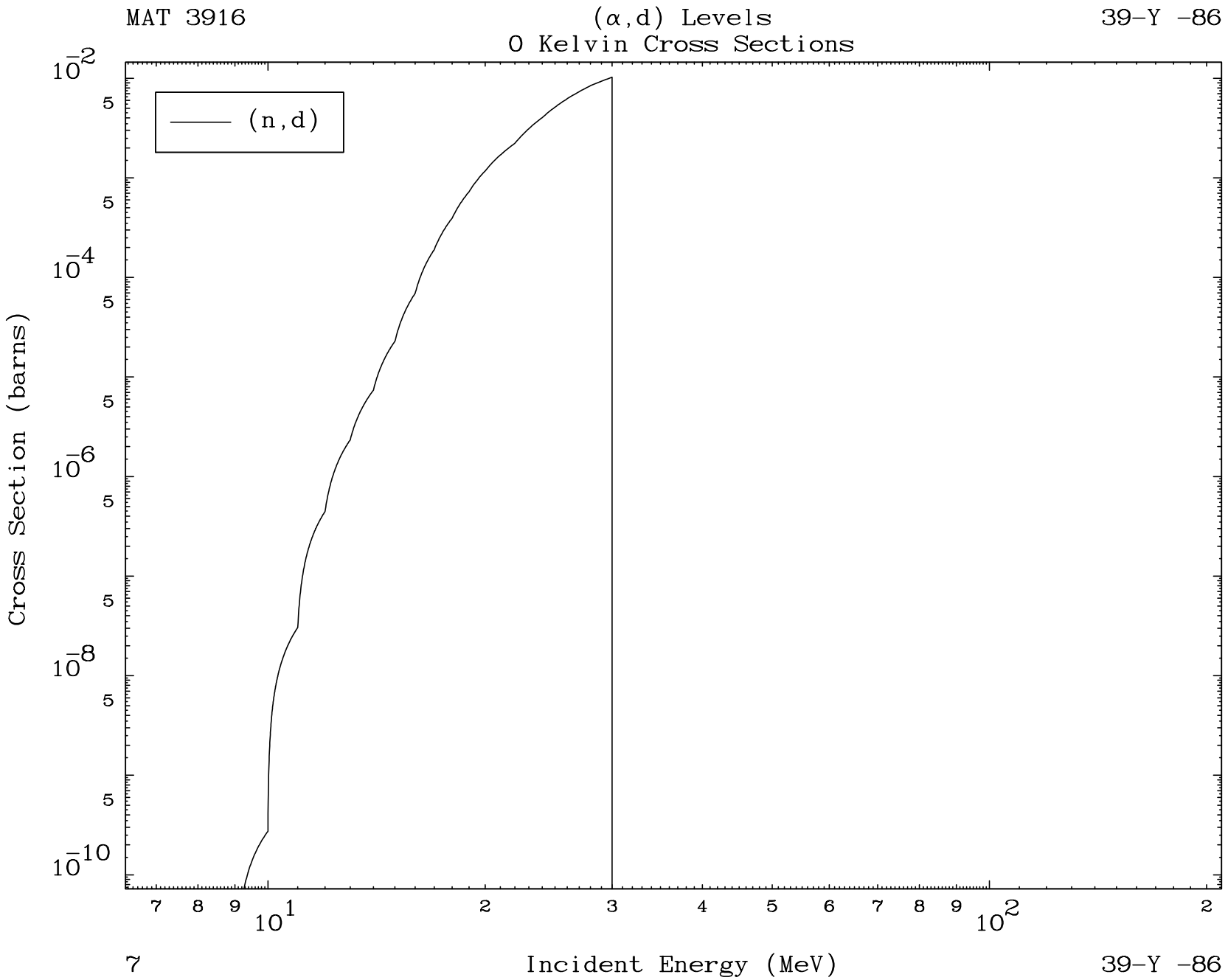

MAT 3916
α Neutron Absorption
0 Kelvin Cross Sections
39-Y -86
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
39-Y -86

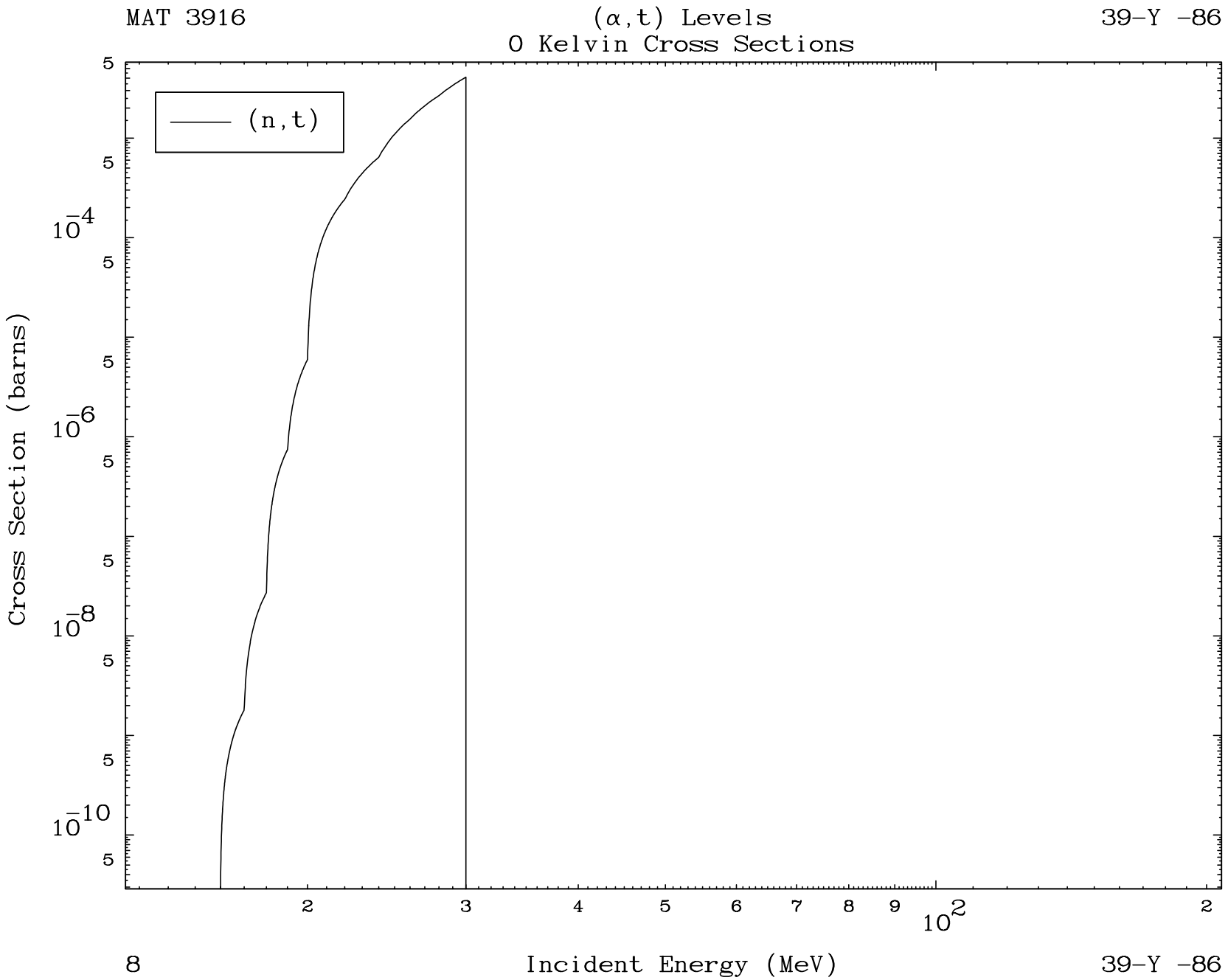

MAT 3916
α Charged Particle
0 Kelvin Cross Sections
39-Y -86
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
4
39-Y -86

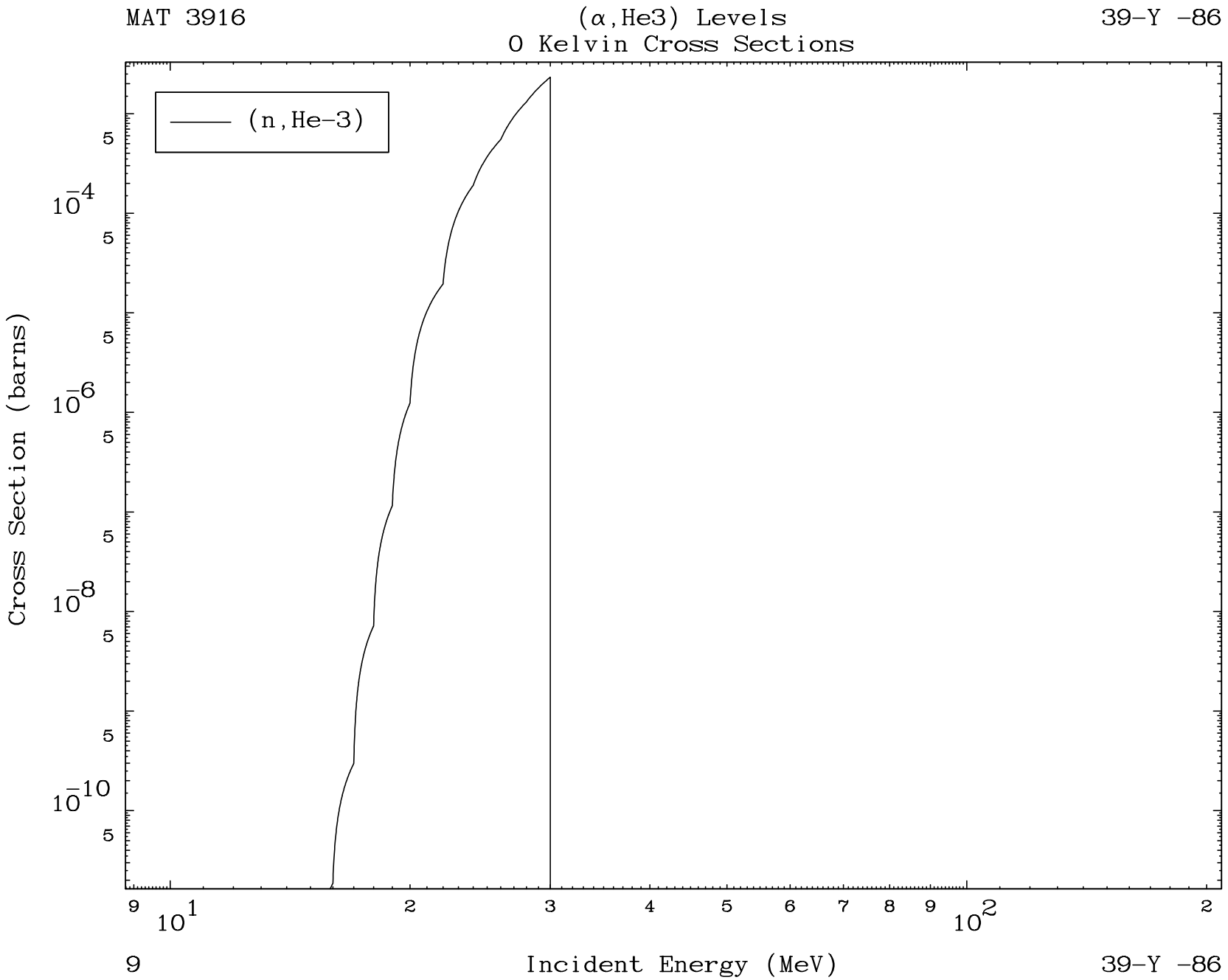

MAT 3916
α Charged Particle
0 Kelvin Cross Sections
39-Y -86
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
39-Y -86

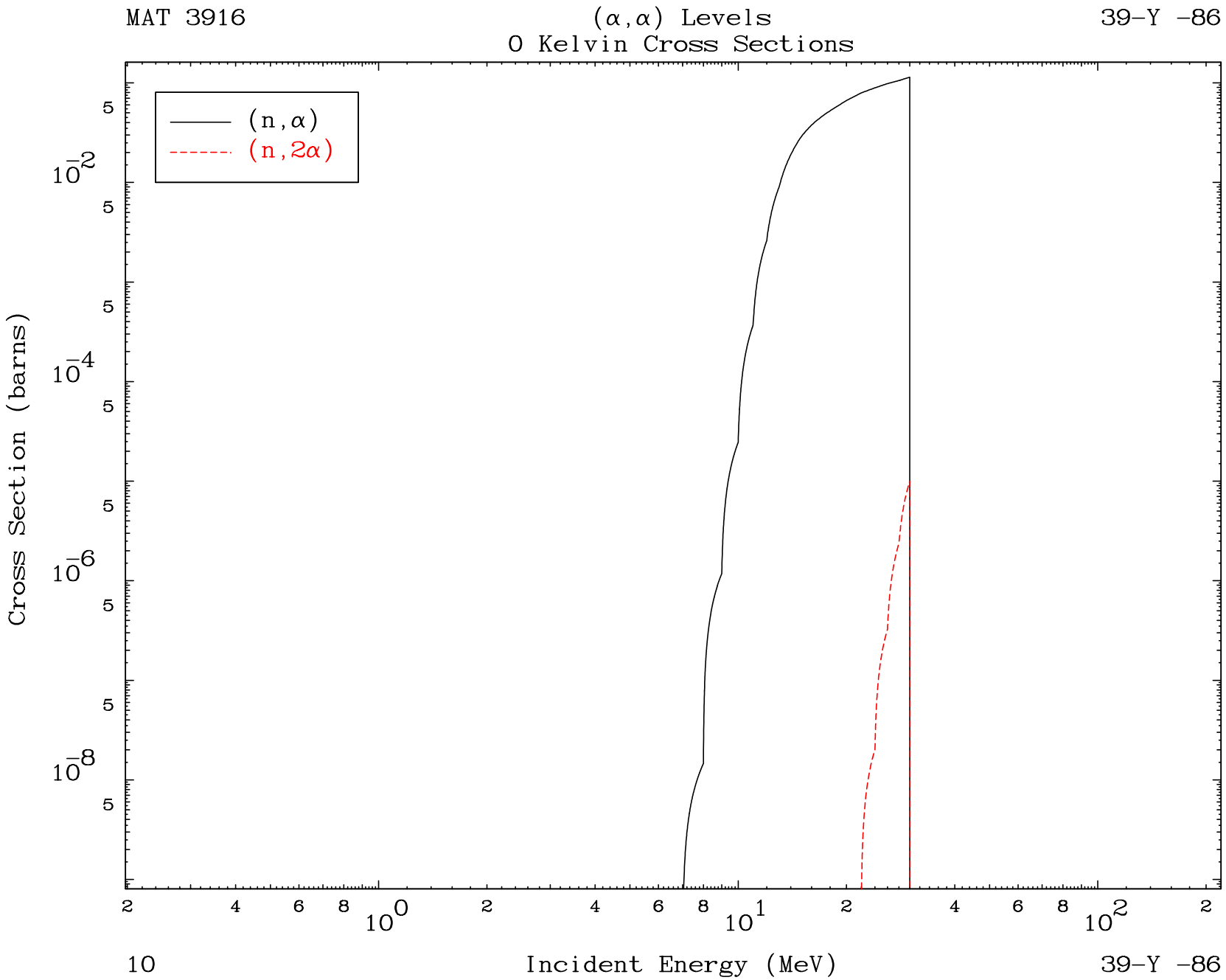
0 Kelvin Cross Sections

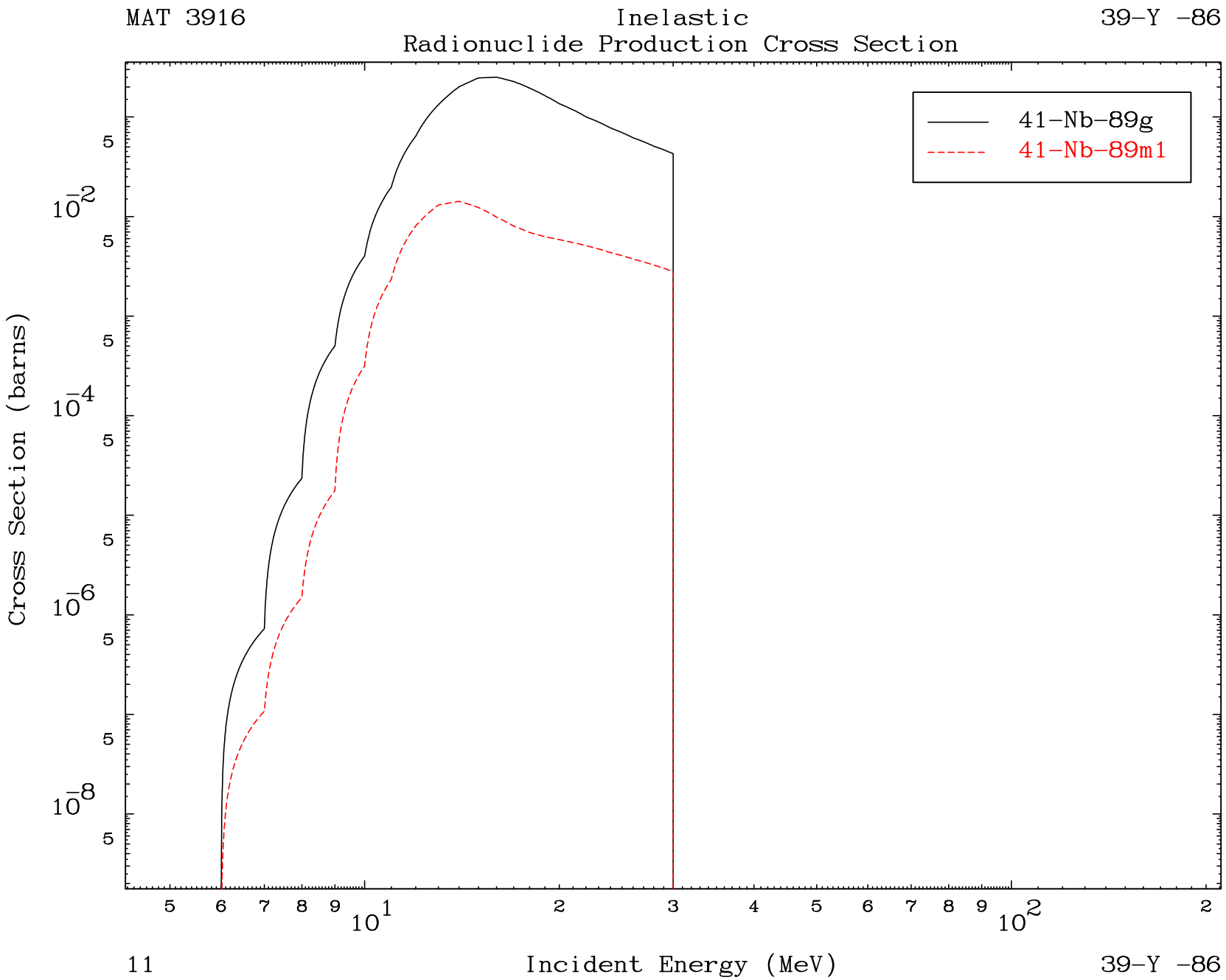


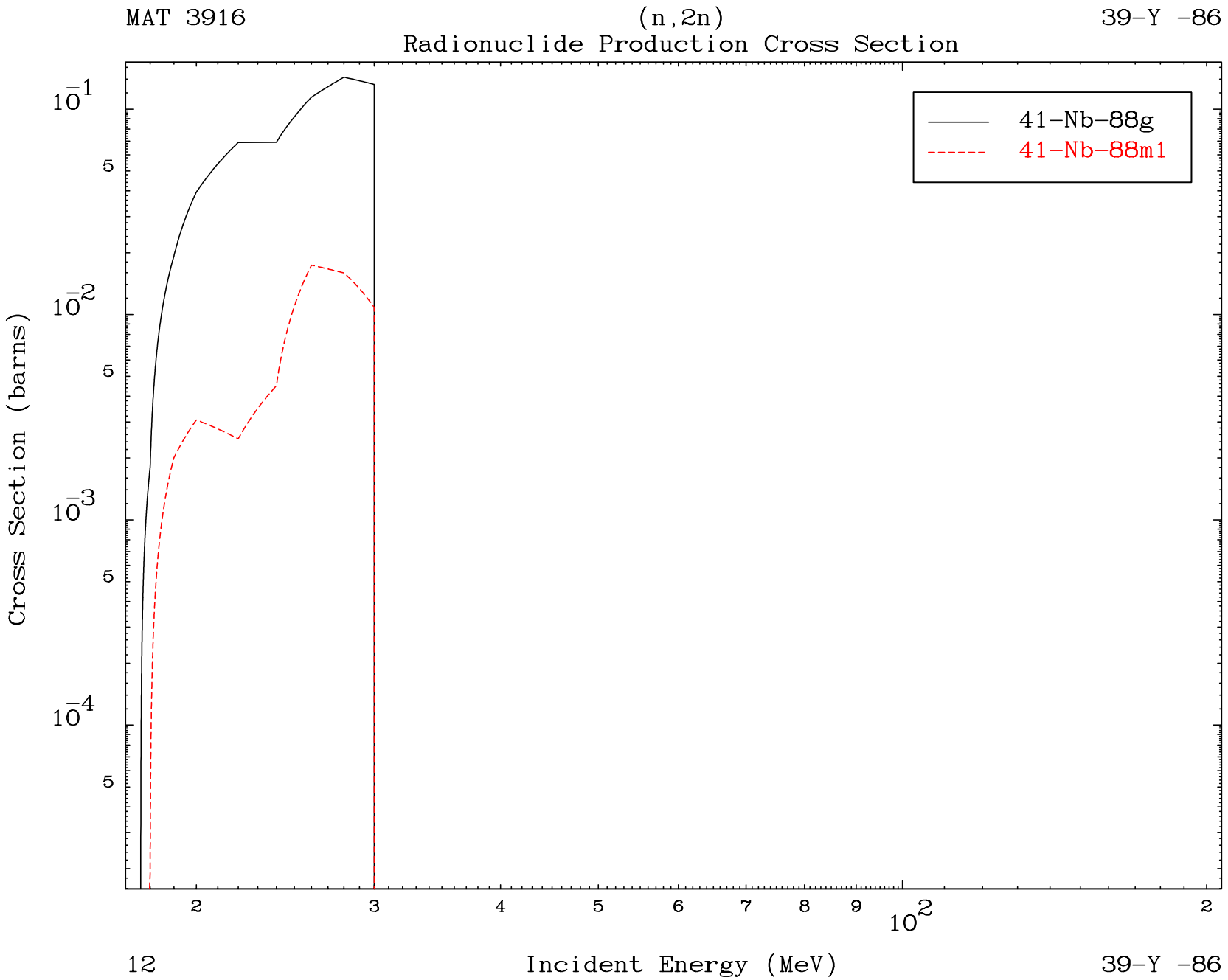

MAT 3916
(α,d) Levels
39-Y -86
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
39-Y -86
7

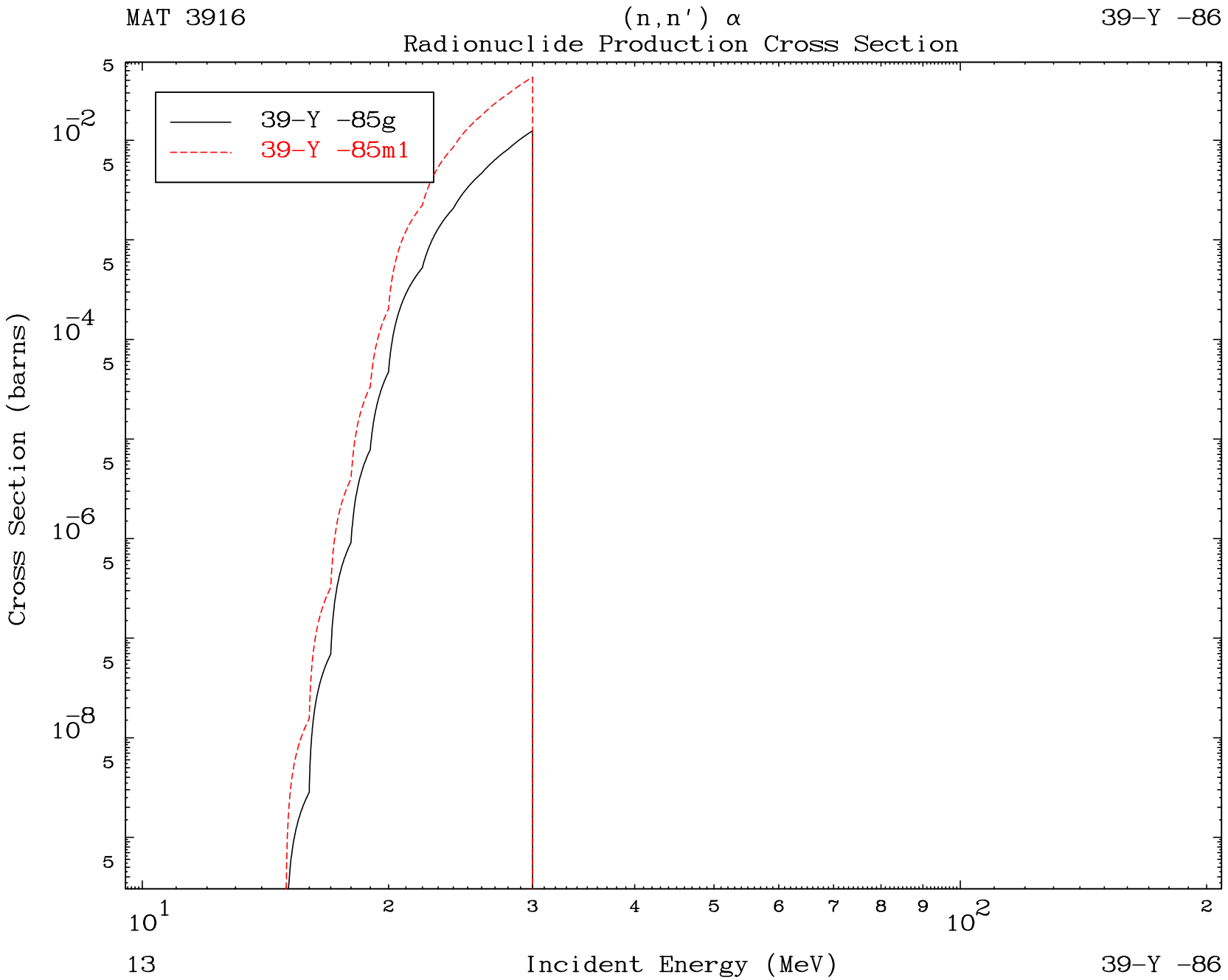

MAT 3916
(α,t) Levels
39-Y -86
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
8
39-Y -86

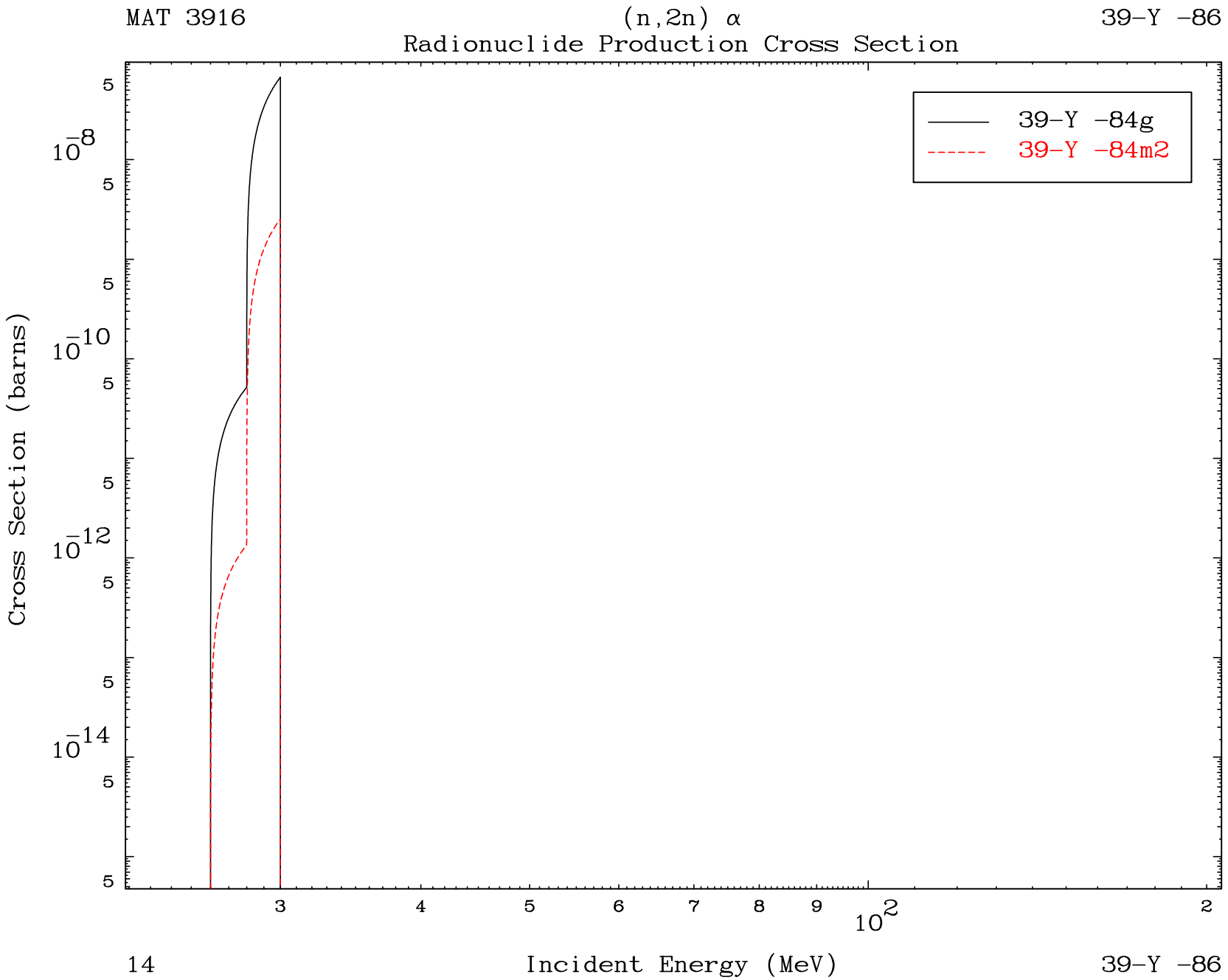

MAT 3916
(α,He3) Levels
39-Y -86
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
101
102
39-Y -86

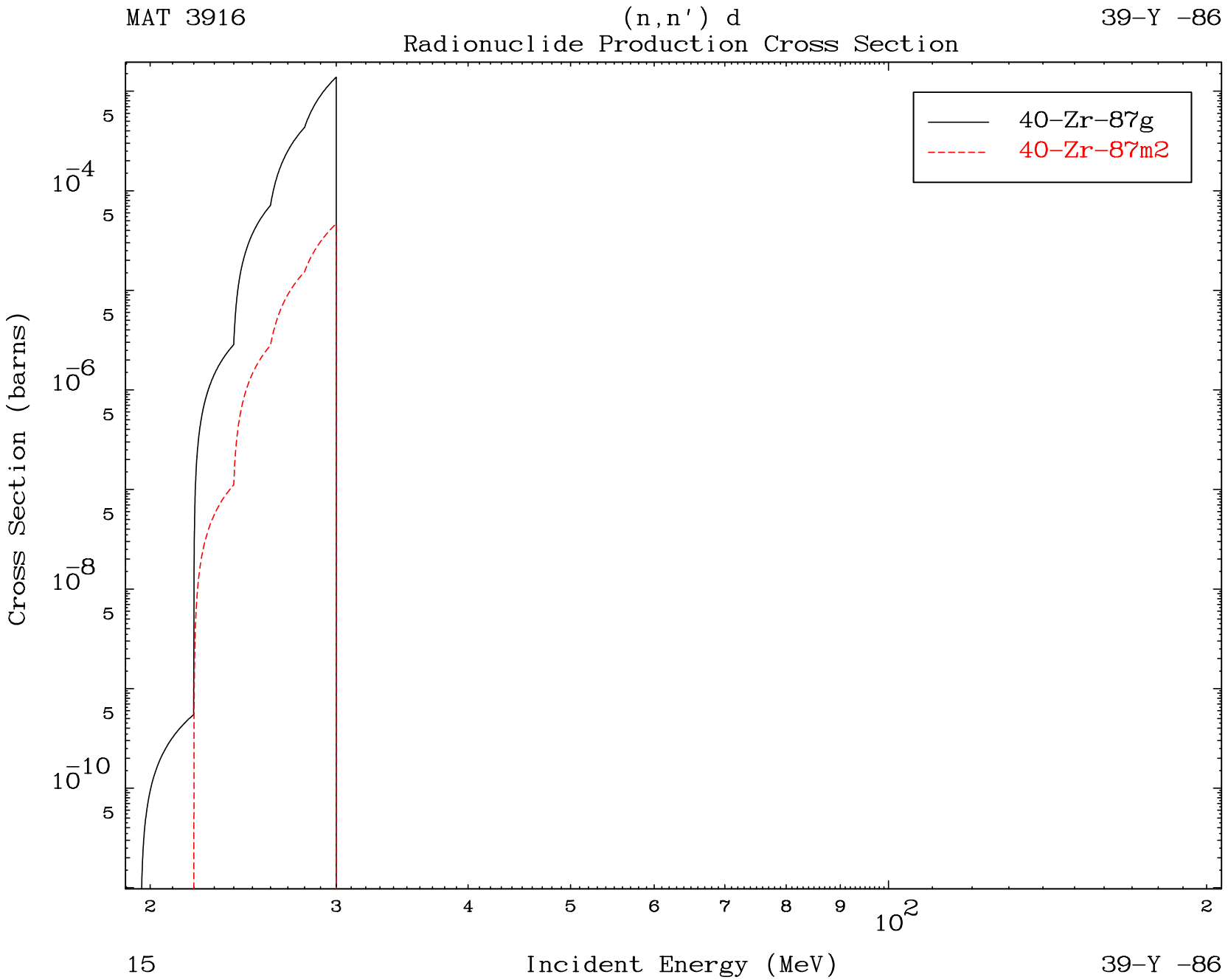

MAT 3916
(α,α) Levels
39-Y -86
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
39-Y -86

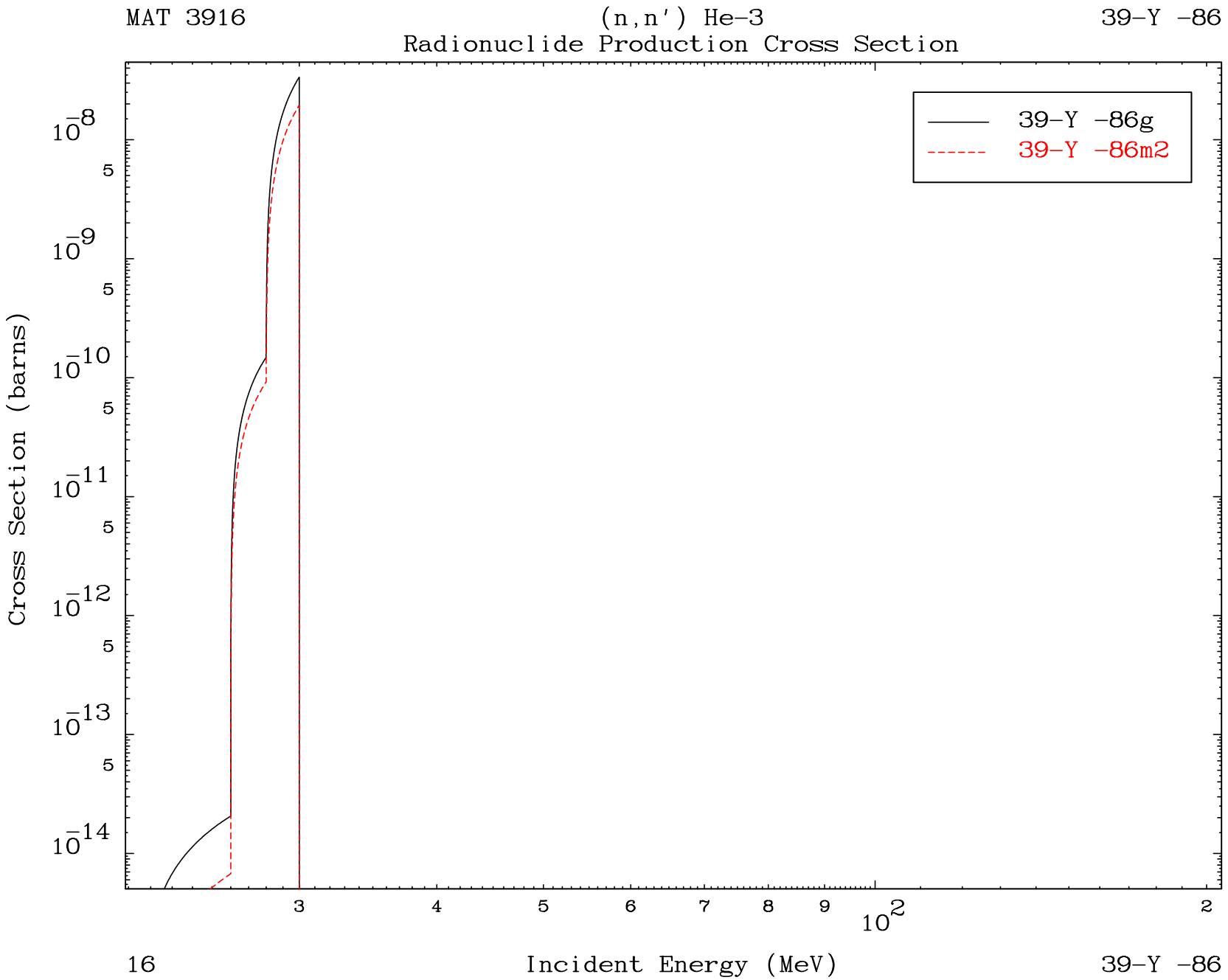

MAT 3916
Inelastic
39-Y -86
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
Incident Energy (MeV)
11
39-Y -86

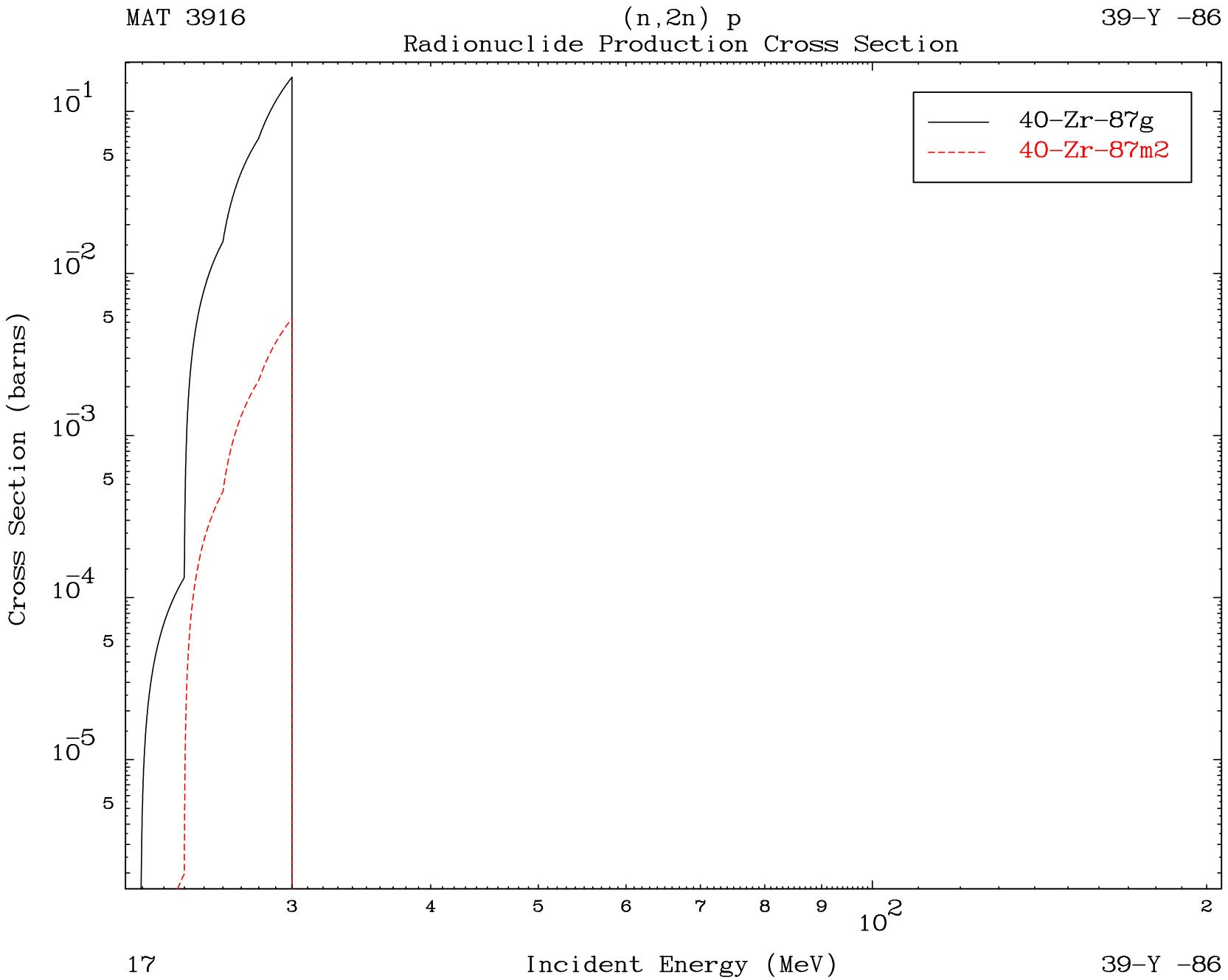

MAT 3916
(n,2n)
39-Y -86
Radionuclide Production Cross Section
41-Nb-88g
41-Nb-88m1
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
39-Y -86

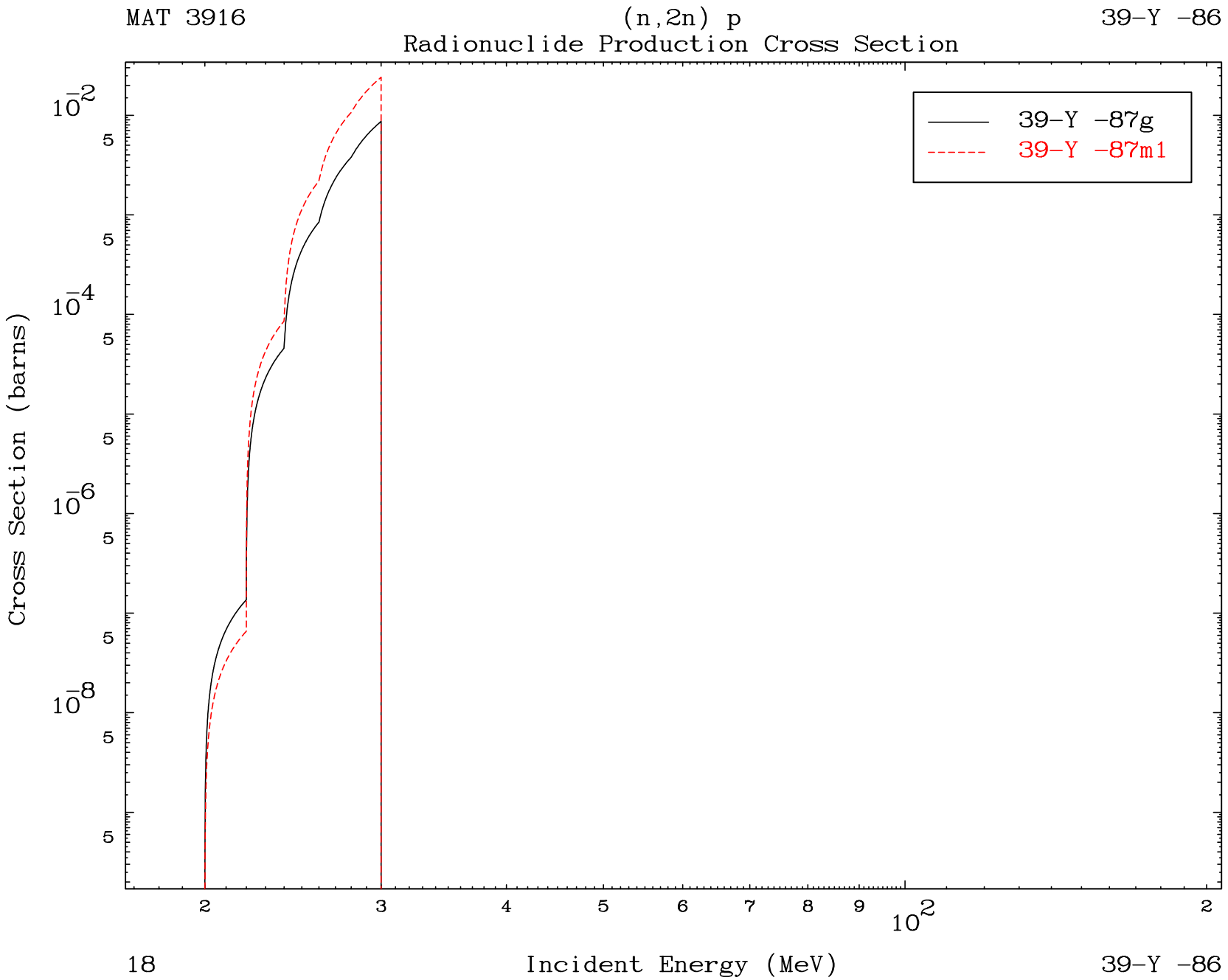

MAT 3916
(n,n') α
39-Y -86
Radionuclide Production Cross Section
39-Y -85g
39-Y -85m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
101
2
3
4
5
6
7
8
9
102
2
13
Incident Energy (MeV)
39-Y -86

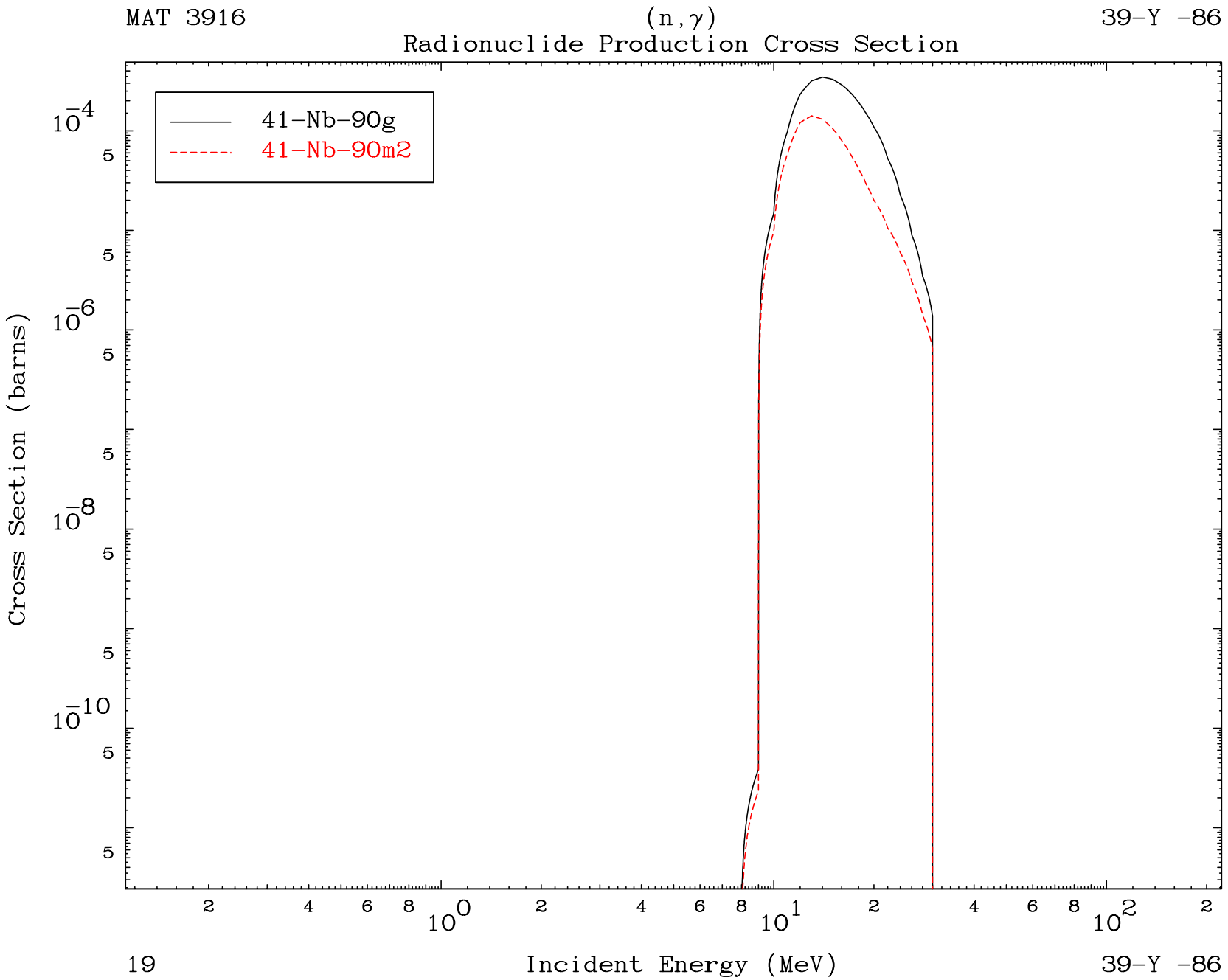

MAT 3916
(n,2n) α
39-Y -86
Radionuclide Production Cross Section
39-Y -84g
39-Y -84m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
39-Y -86

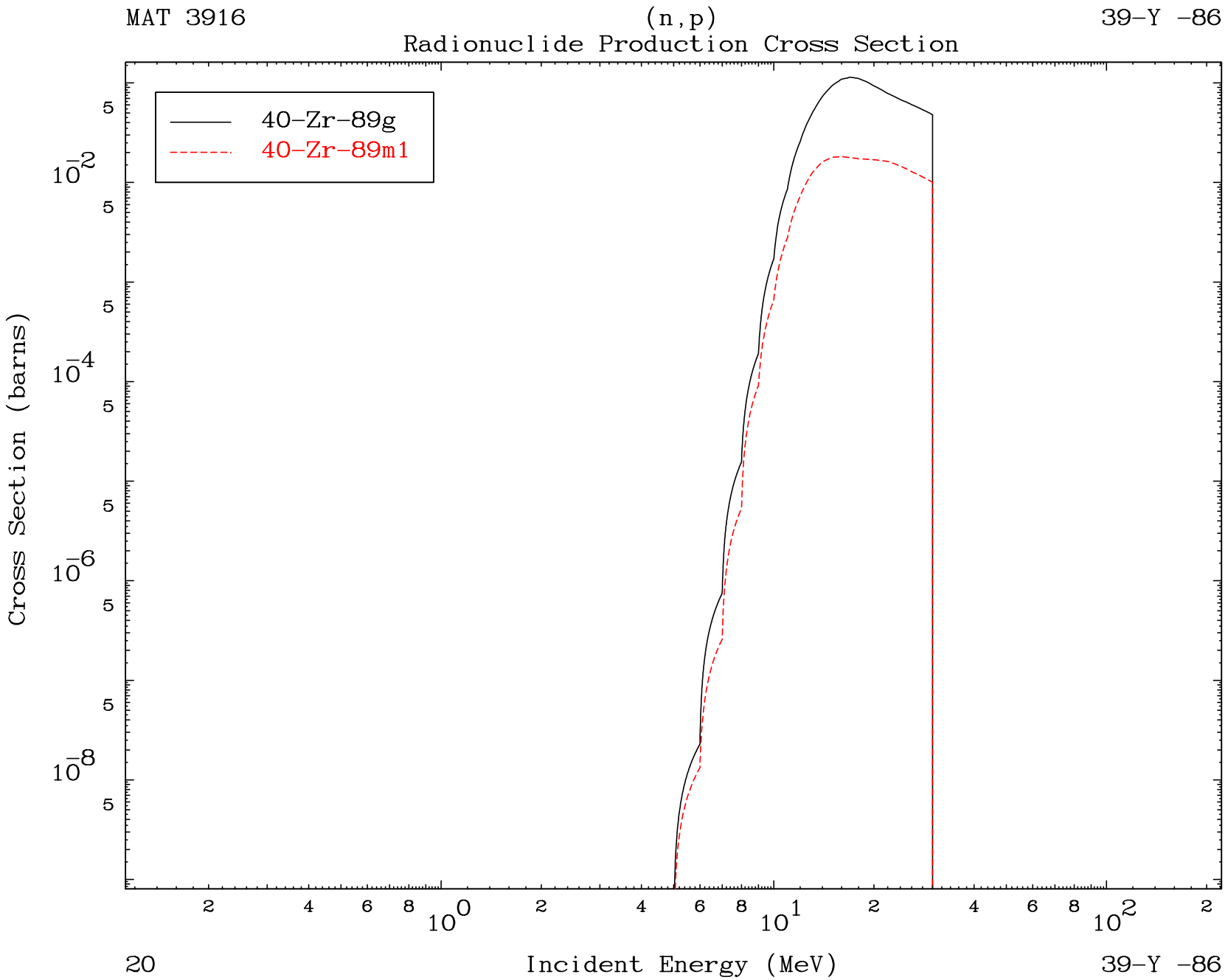

MAT 3916
(n,n') d
39-Y -86
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
2
3
4
5
6
7
8
9
10 2
15
39-Y -86

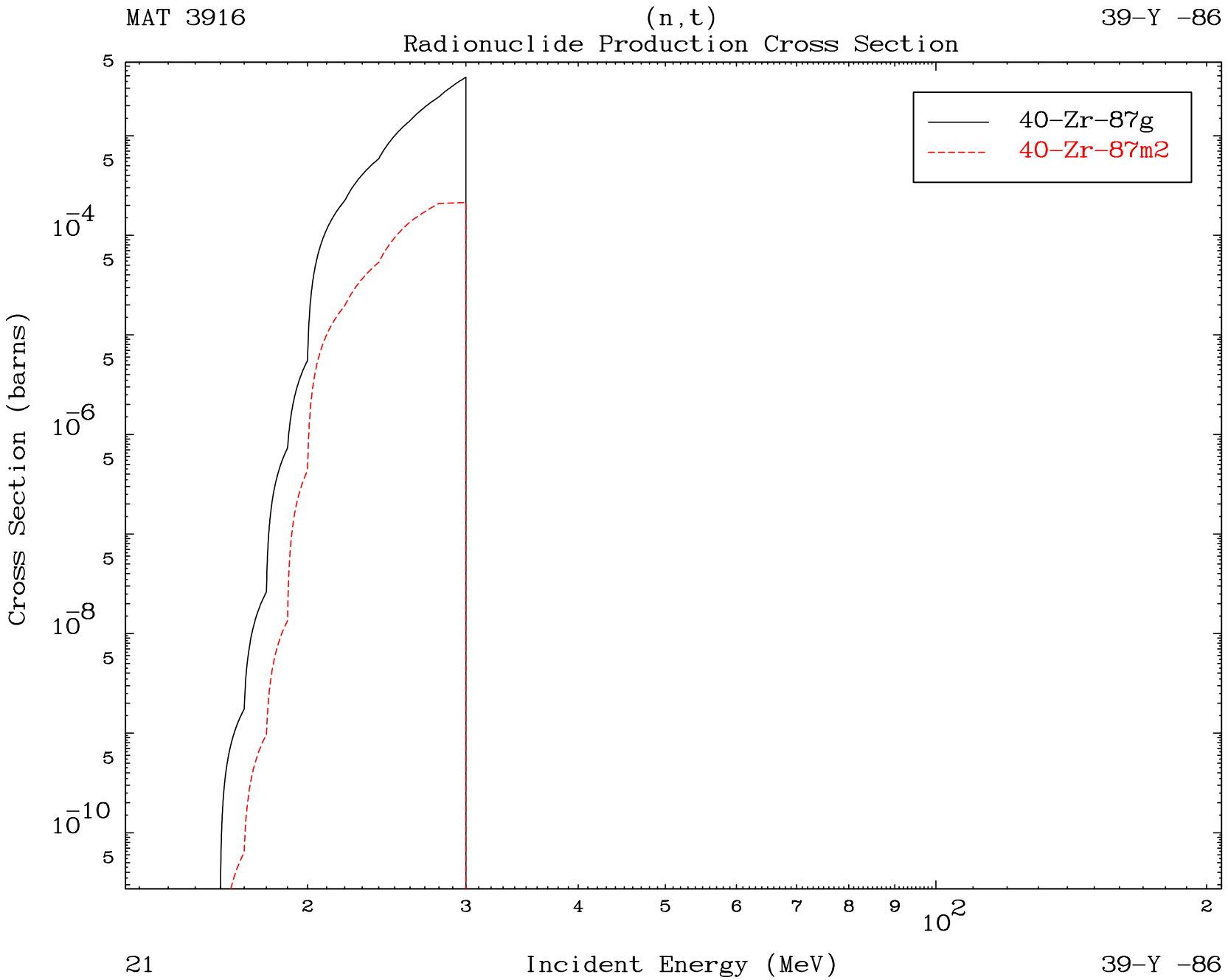

MAT 3916
(n,n') He-3
39-Y -86
Radionuclide Production Cross Section
39-Y -86g
39-Y -86m2
Cross Section (barns)
Incident Energy (MeV)
16
39-Y -86

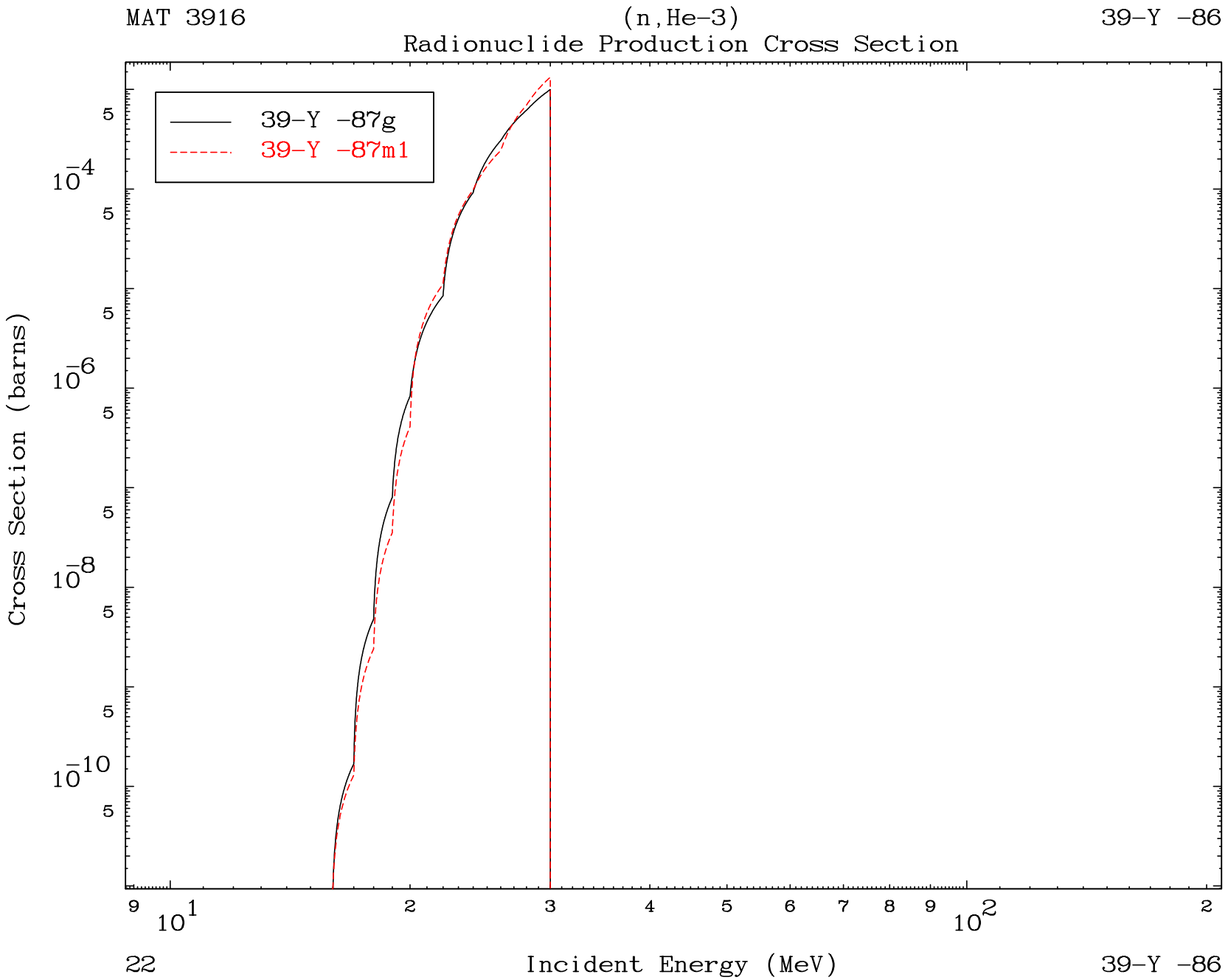

MAT 3916
(n,2n) p
39-Y -86
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
10-5
5
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
39-Y -86

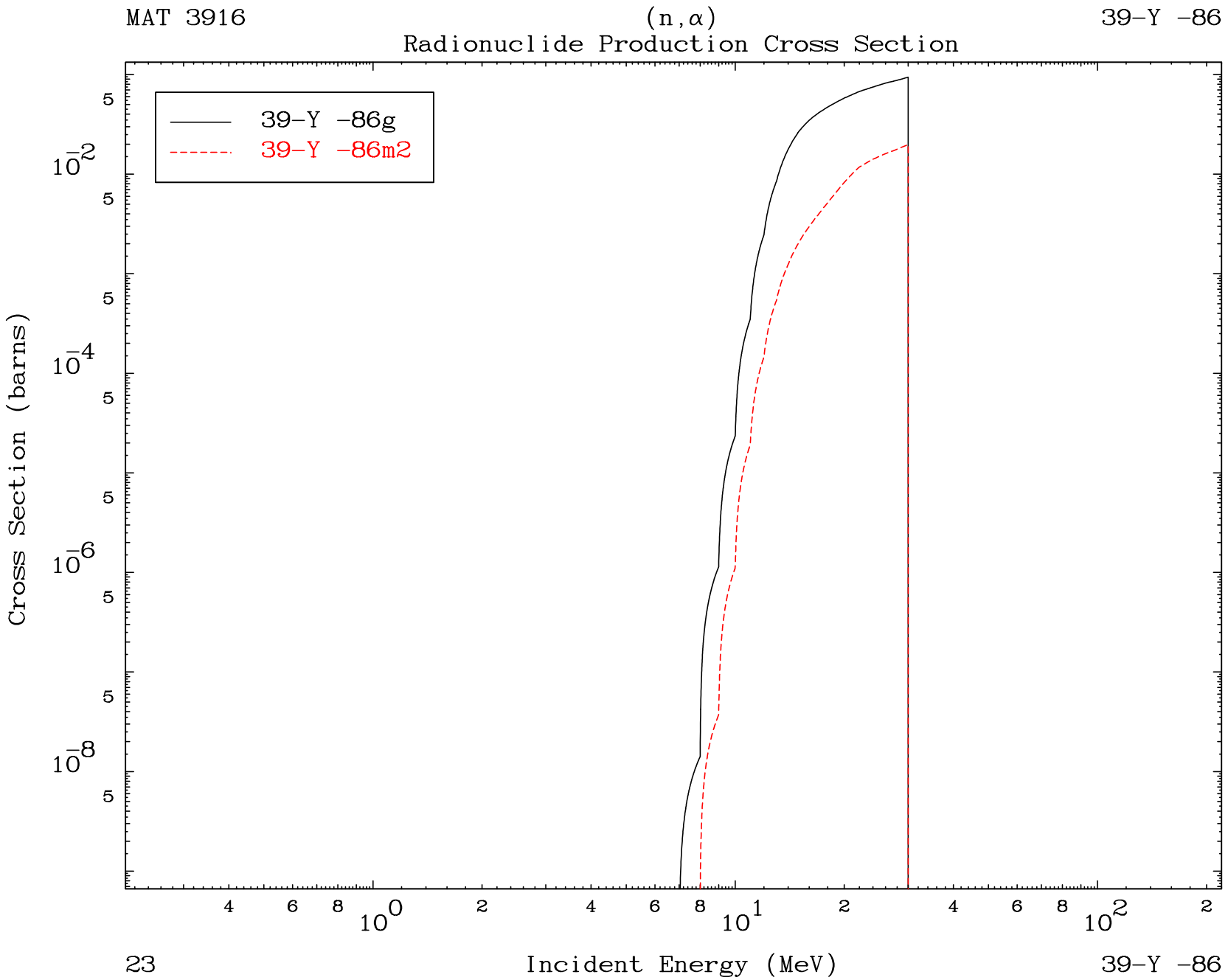

MAT 3916
(n,2n) p
39-Y -86
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
Incident Energy (MeV)
18
39-Y -86

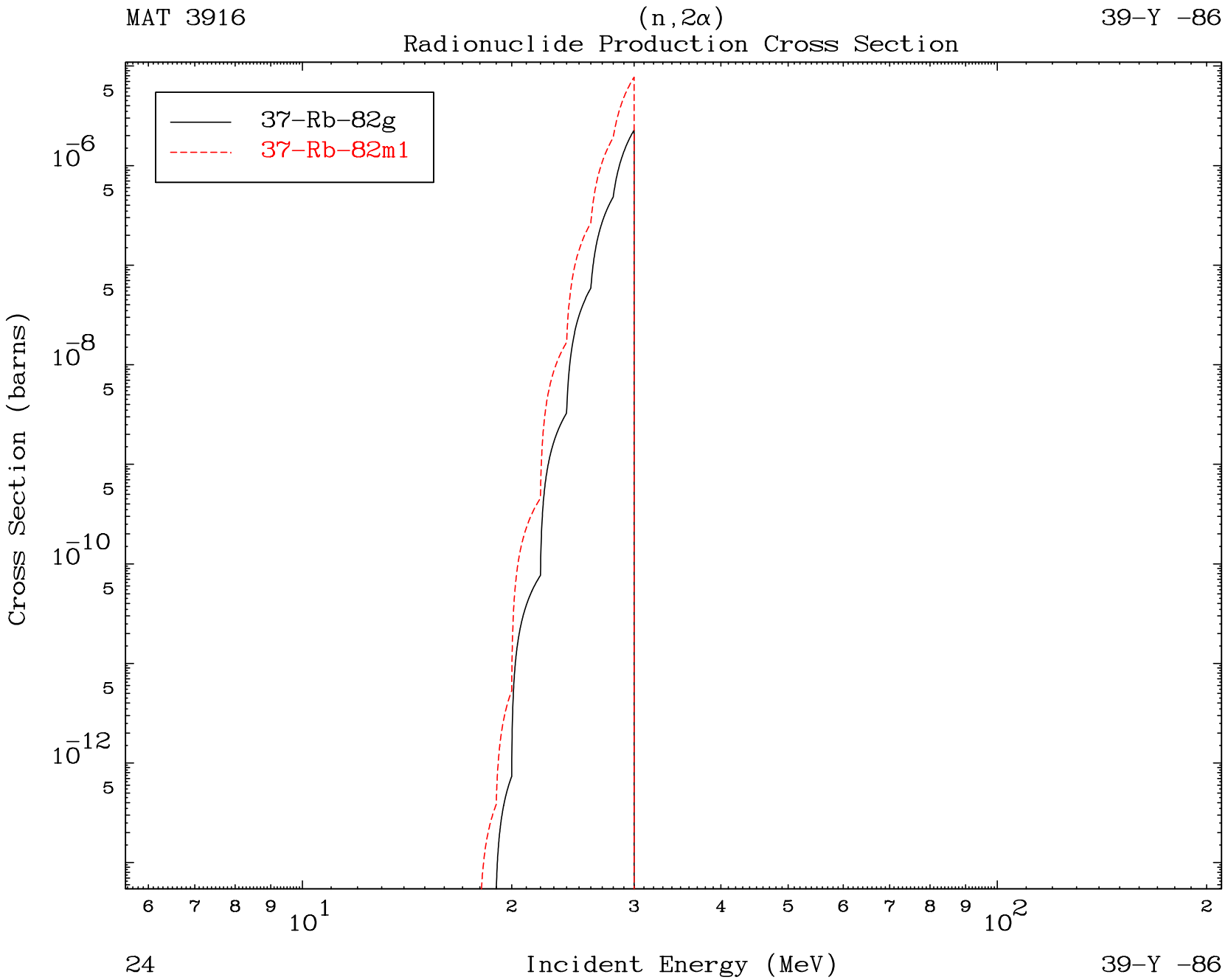

MAT 3916
(n,γ)
39-Y -86
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
Incident Energy (MeV)
19
39-Y -86

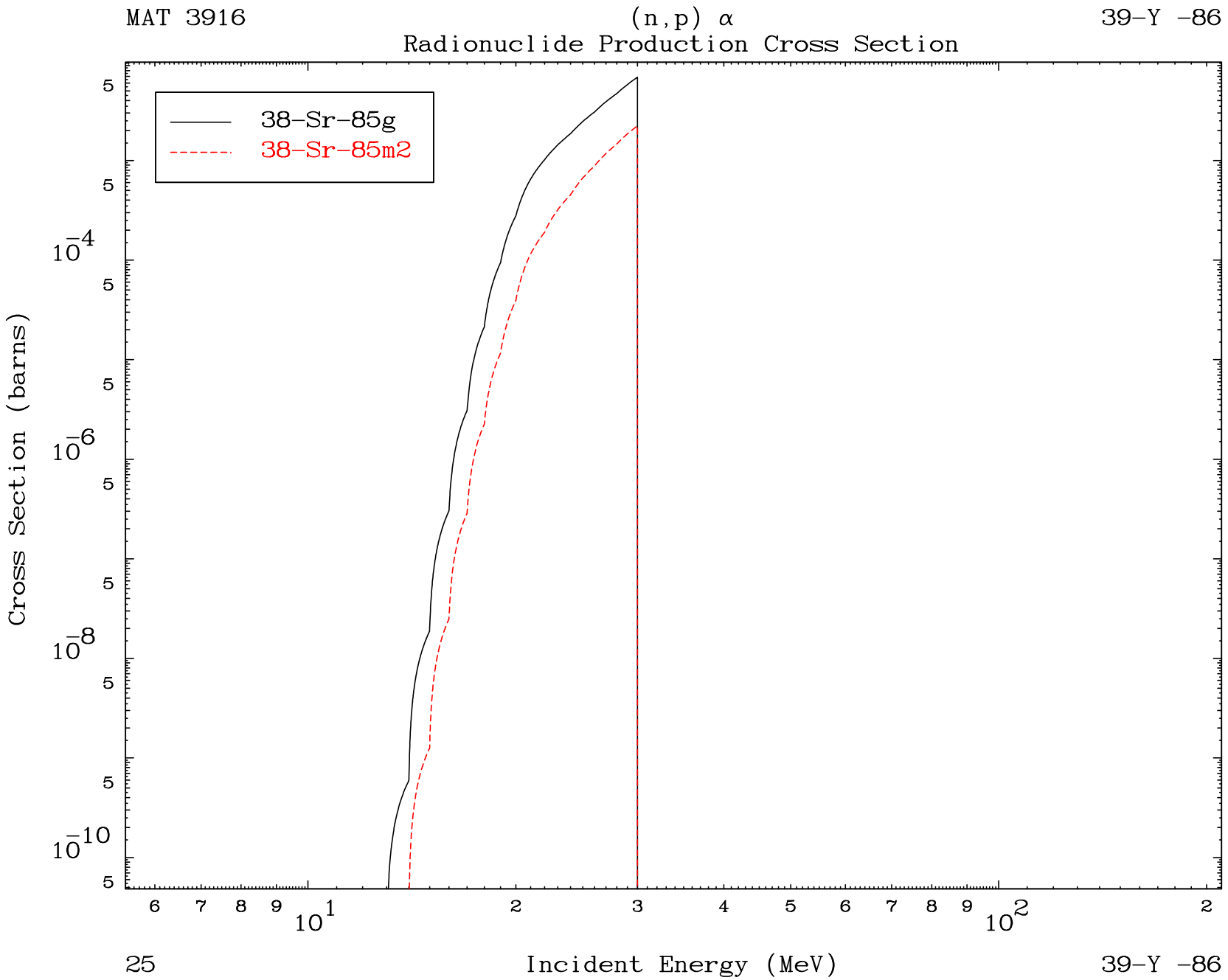

MAT 3916
(n,p)
39-Y -86
Radionuclide Production Cross Section
40-Zr-89g
40-Zr-89m1
Cross Section (barns)
Incident Energy (MeV)
20
39-Y -86

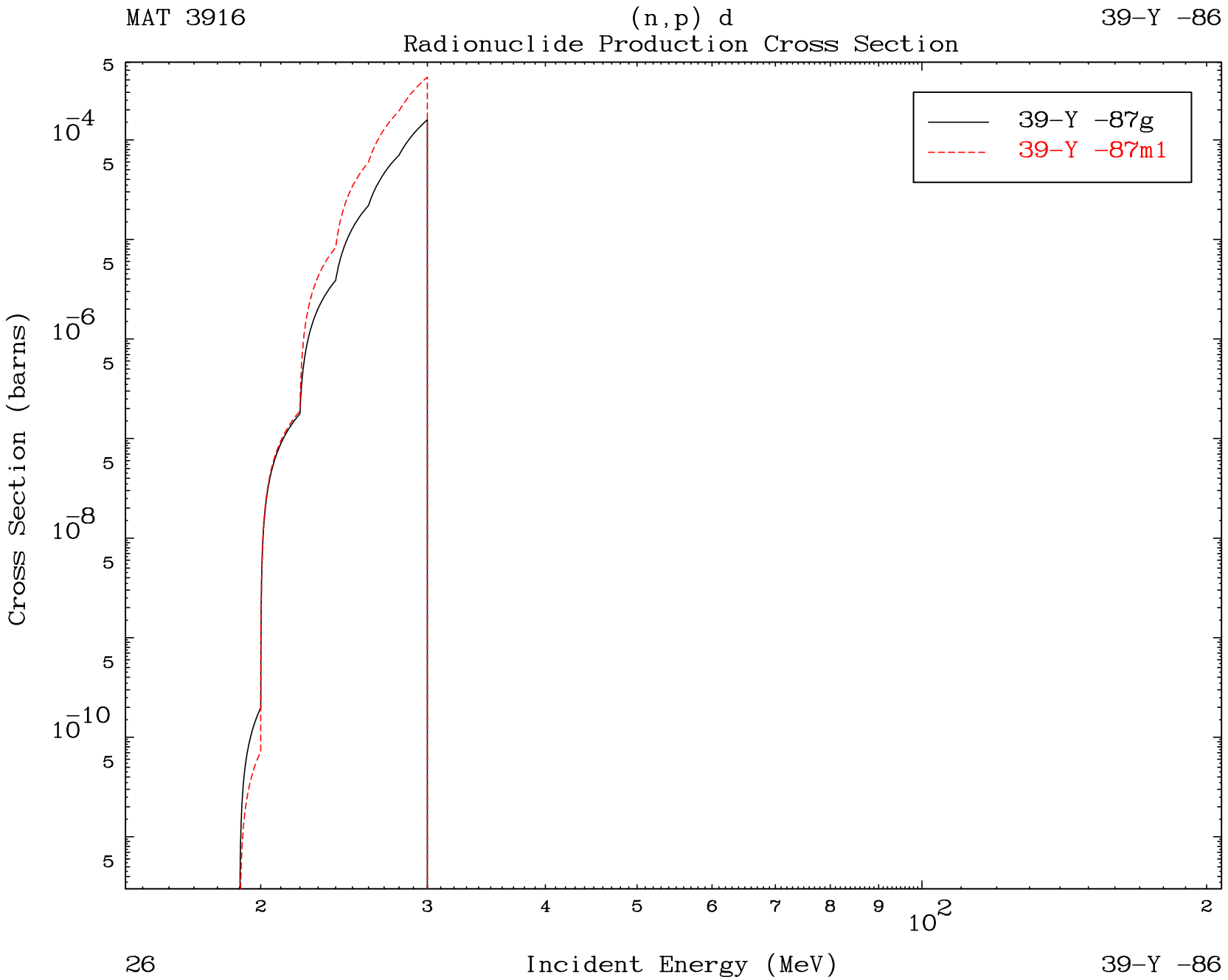

MAT 3916
(n,t)
39-Y -86
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
Incident Energy (MeV)
21
39-Y -86

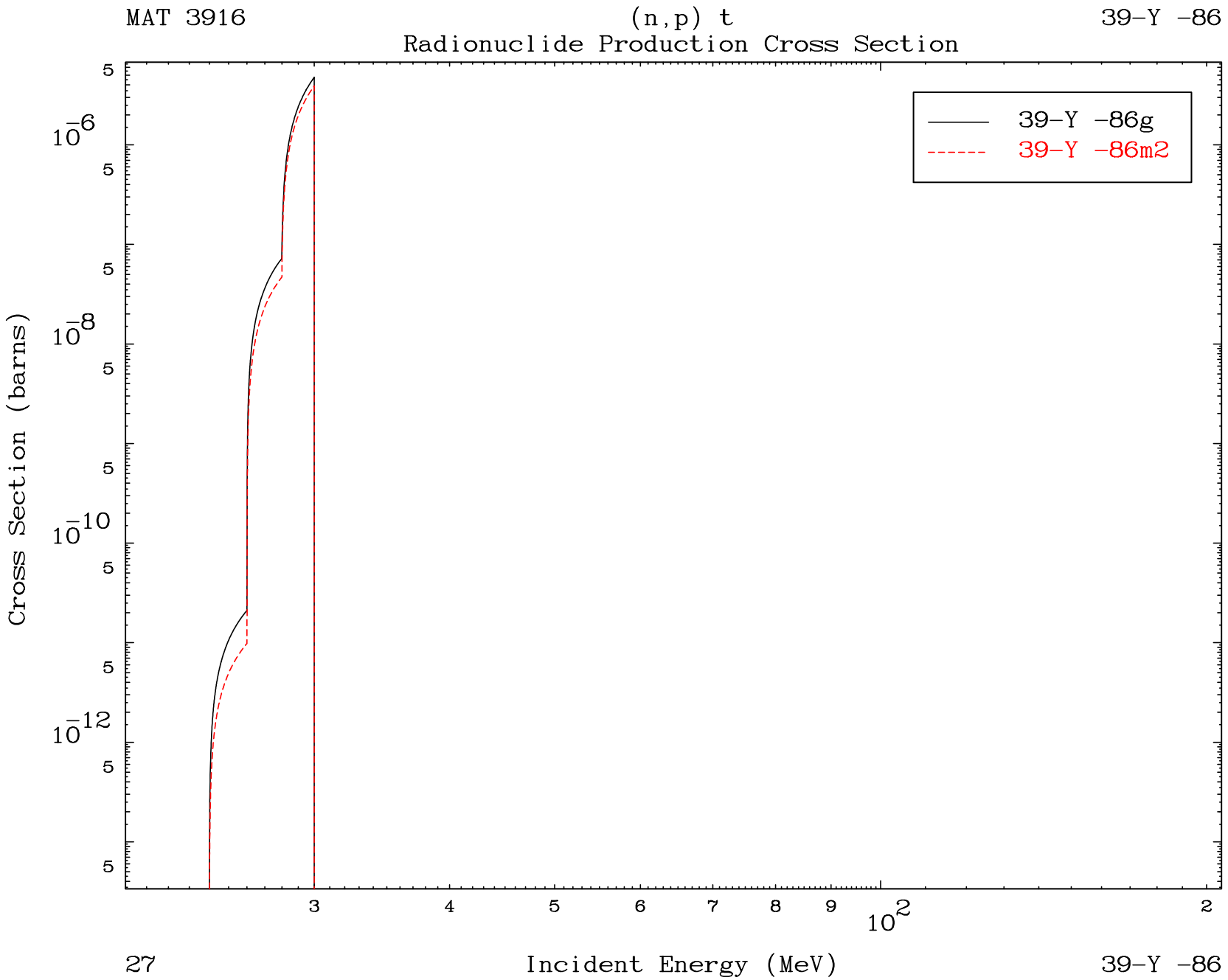

MAT 3916
(n,He-3)
39-Y -86
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
22
39-Y -86


MAT 3916
(n,α)
39-Y -86
Radionuclide Production Cross Section
39-Y -86g
39-Y -86m2
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
23
39-Y -86


MAT 3916
(n,2α)
39-Y -86
Radionuclide Production Cross Section
37-Rb-82g
37-Rb-82m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
6 7 8 9 10 1
2 3 4 5 6 7 8 9 10 2
2
24
Incident Energy (MeV)
39-Y -86


MAT 3916
(n,p) α
39-Y -86
Radionuclide Production Cross Section
38-Sr-85g
38-Sr-85m2
Cross Section (barns)
Incident Energy (MeV)
25
39-Y -86


MAT 3916
(n,p) d
39-Y -86
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
Incident Energy (MeV)
26
39-Y -86


MAT 3916
(n,p) t
39-Y -86
Radionuclide Production Cross Section
39-Y -86g
39-Y -86m2
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
27
Incident Energy (MeV)
39-Y -86