Program EVALPLOT
(Version 2018-1)
by
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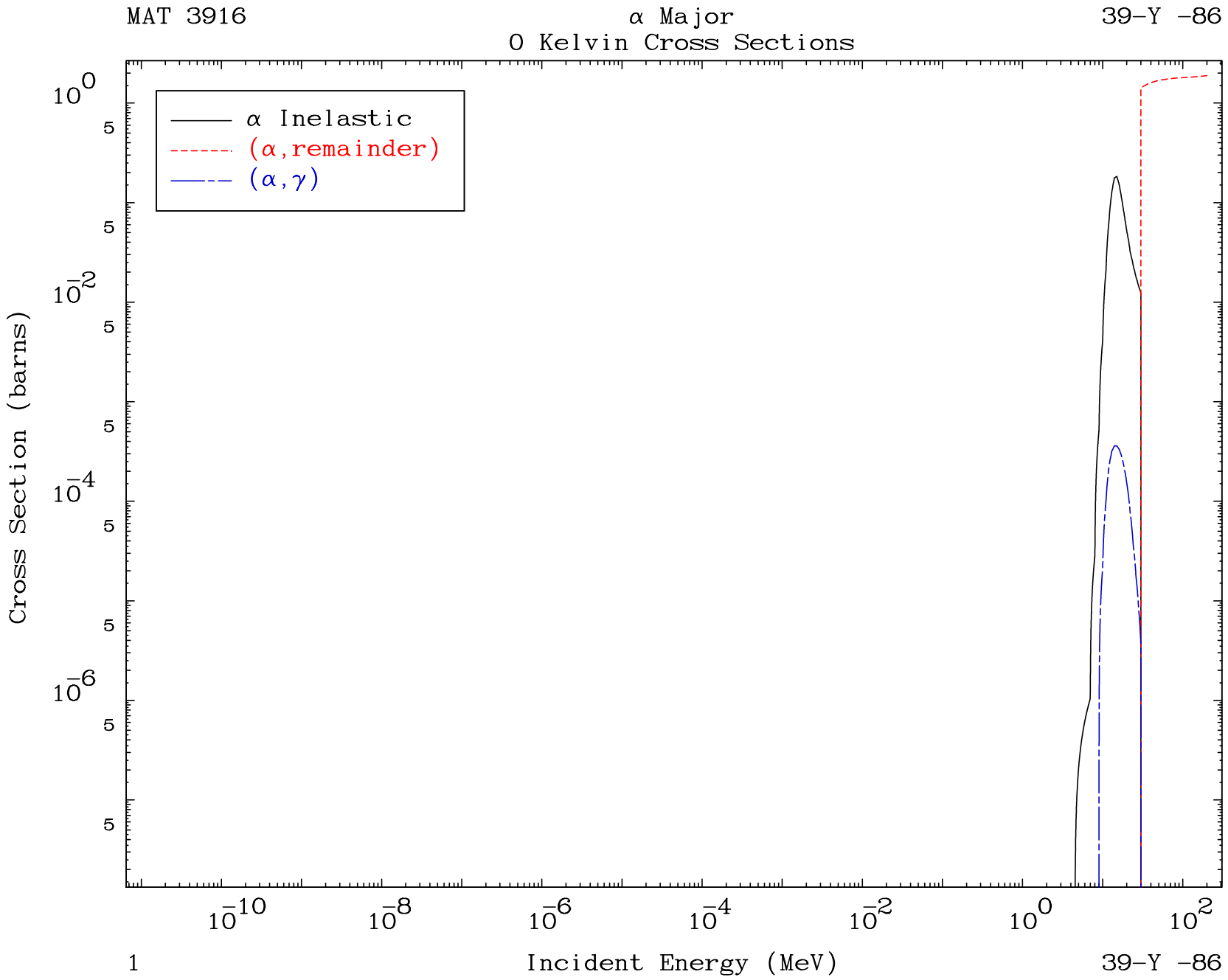
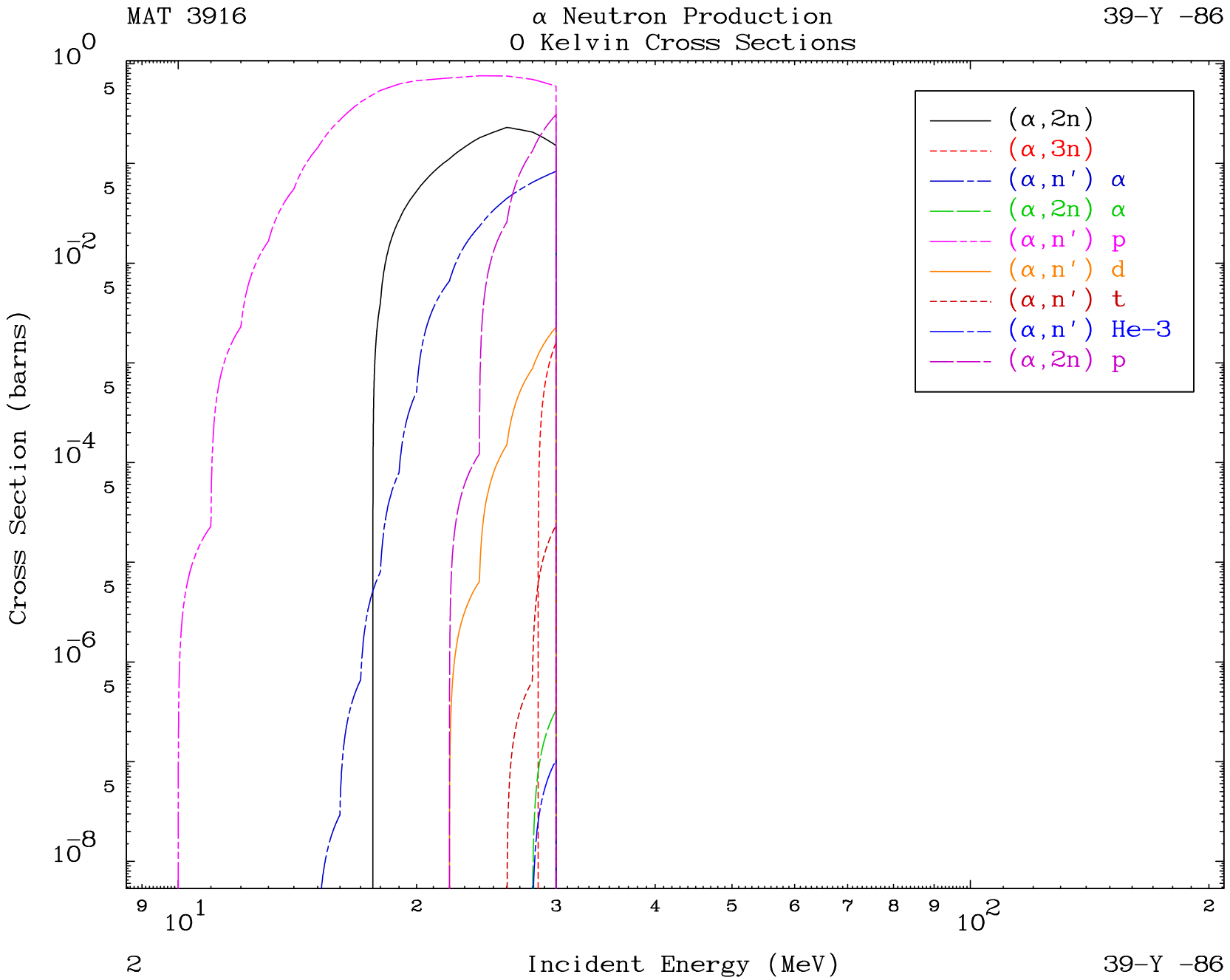
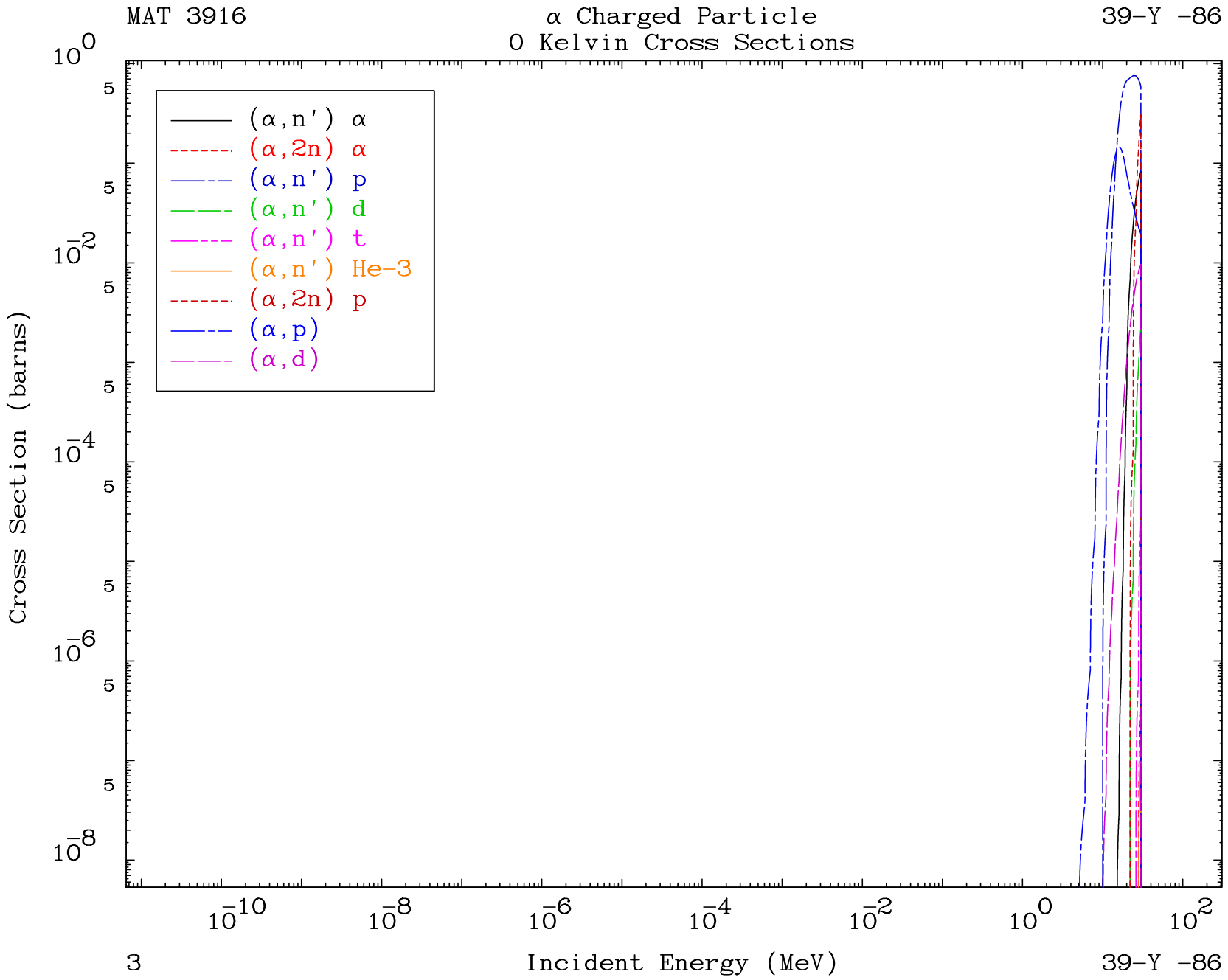
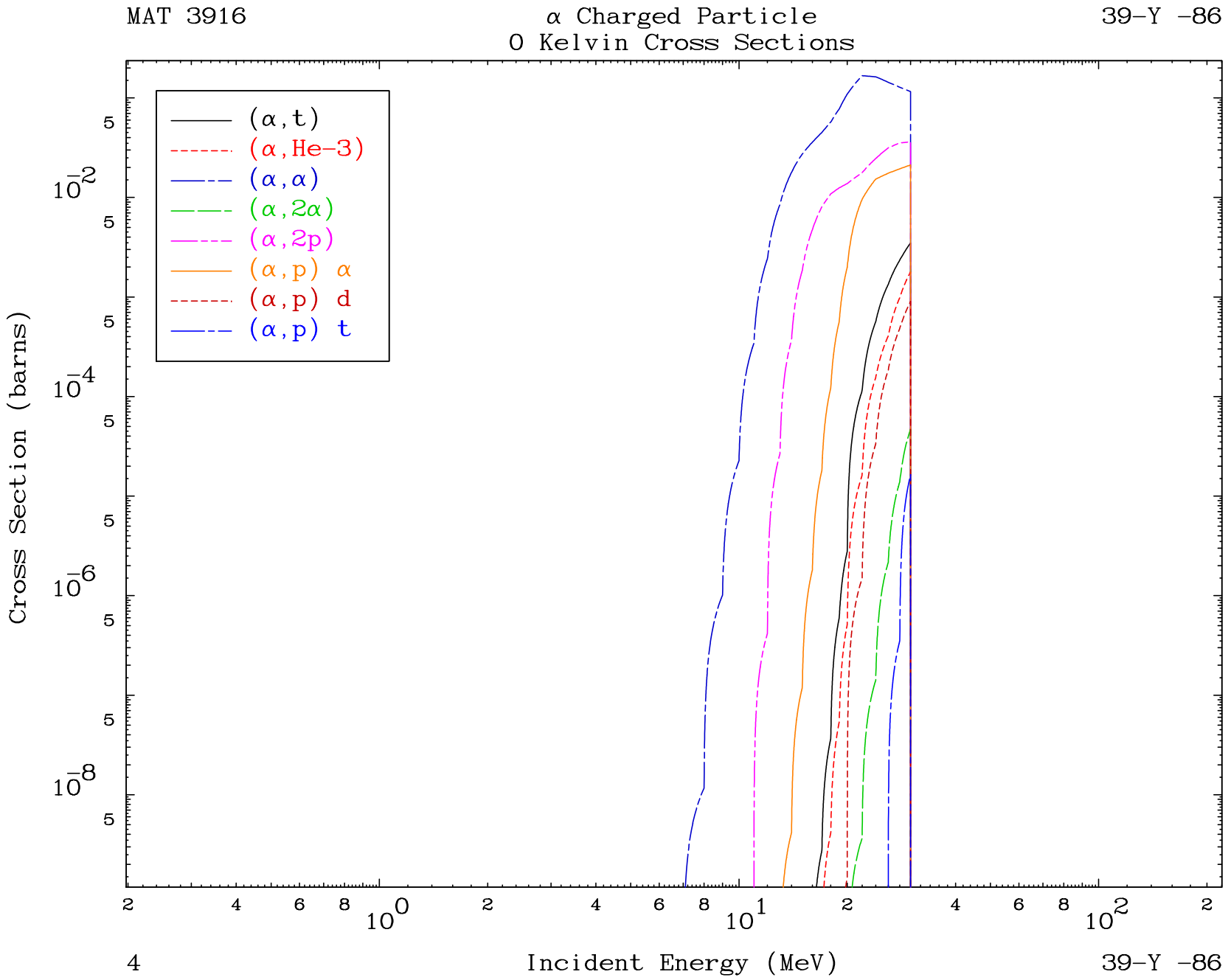
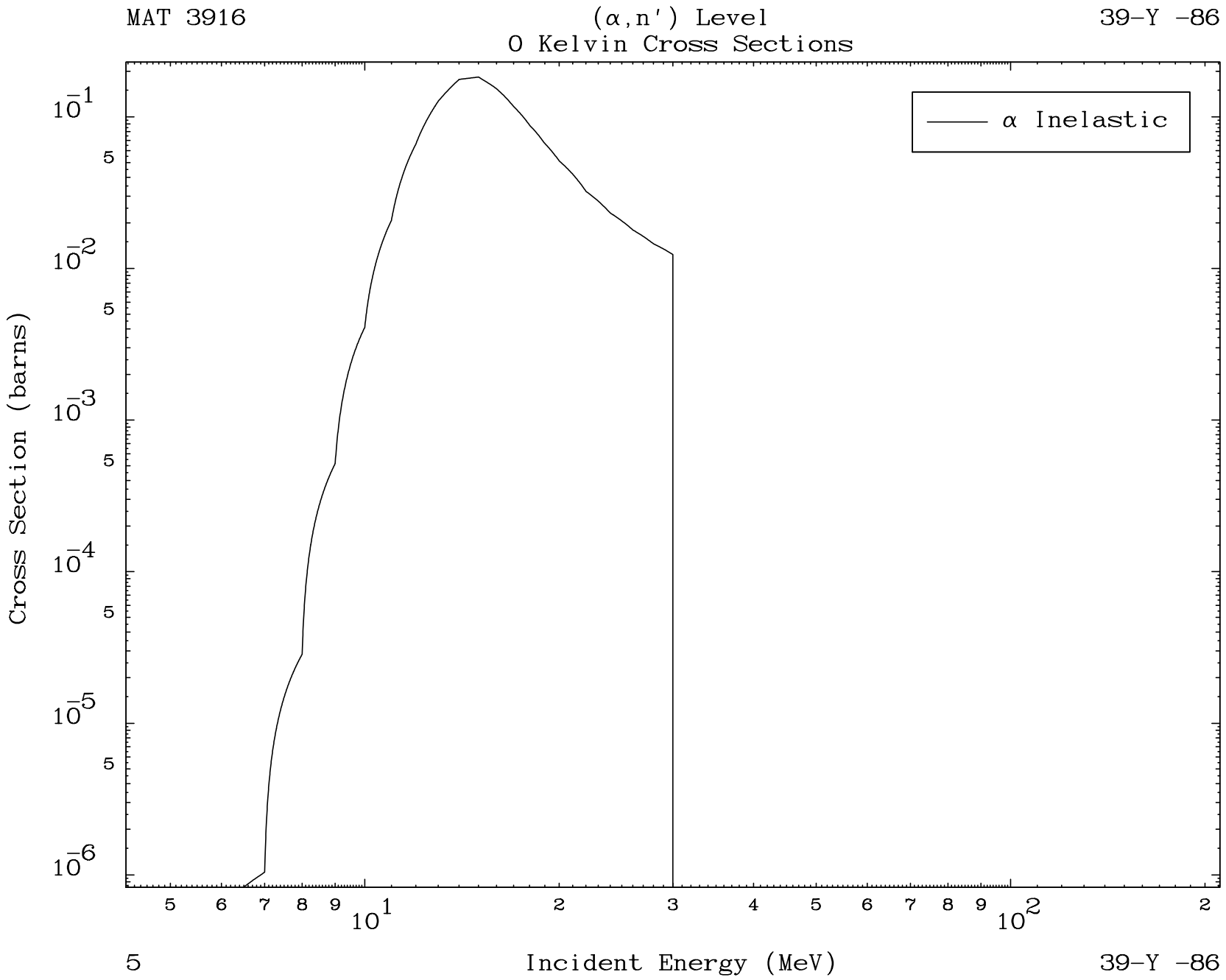
Press Mouse Button to Start

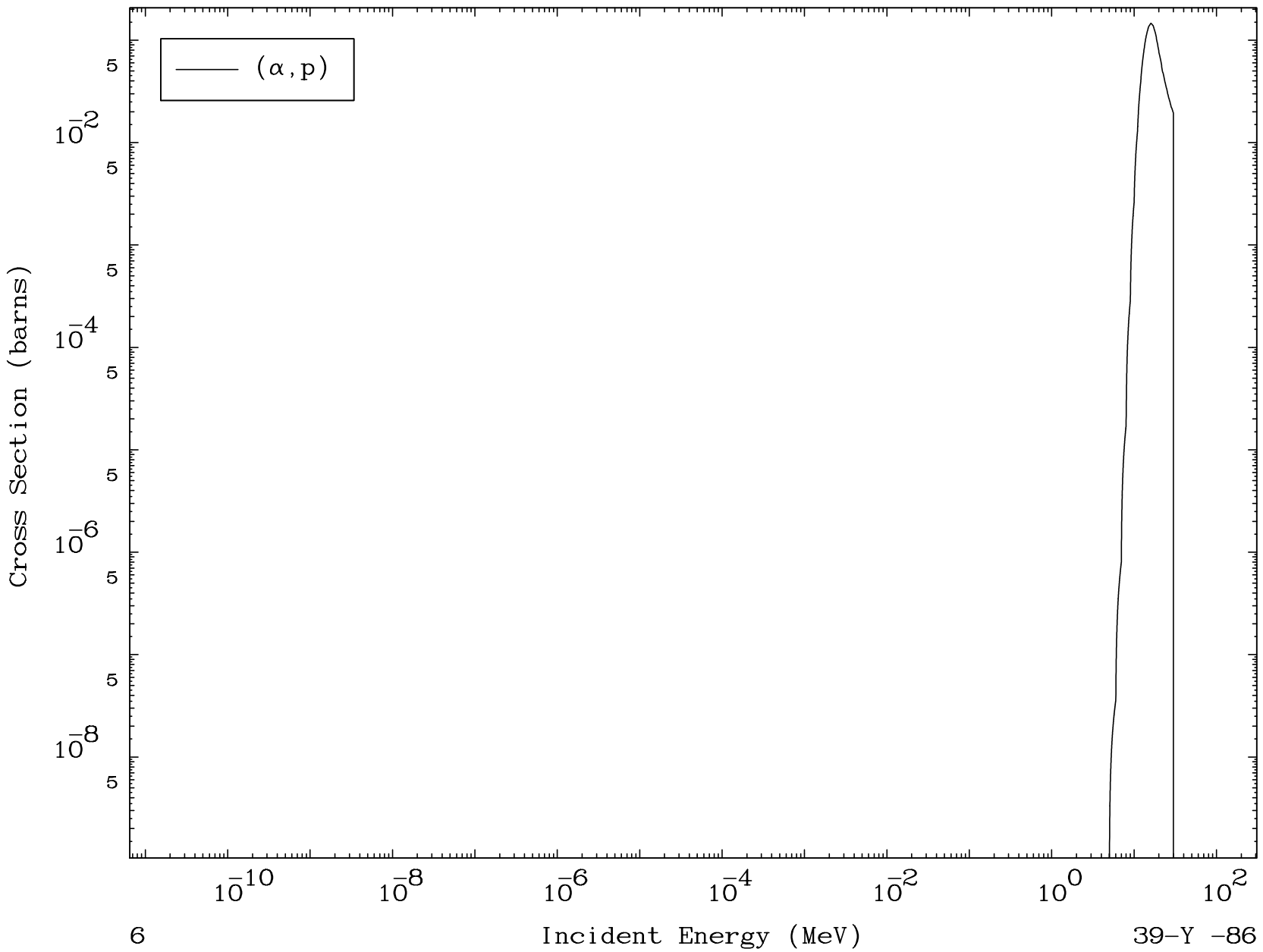

MAT 3916
α Major
39-Y -86
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
39-Y -86

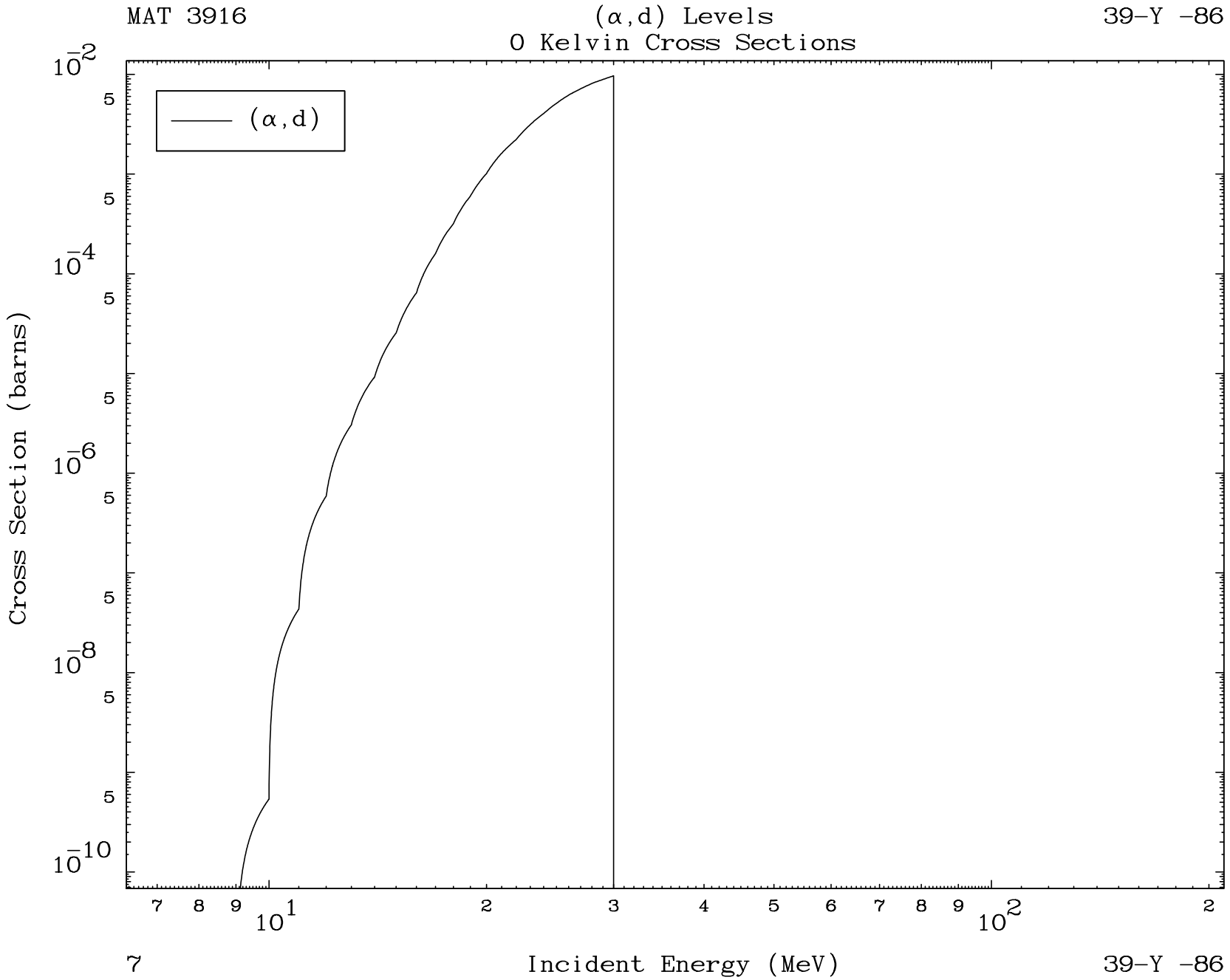

MAT 3916
α Neutron Production
0 Kelvin Cross Sections
39-Y -86
Cross Section (barns)
Incident Energy (MeV)
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p


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

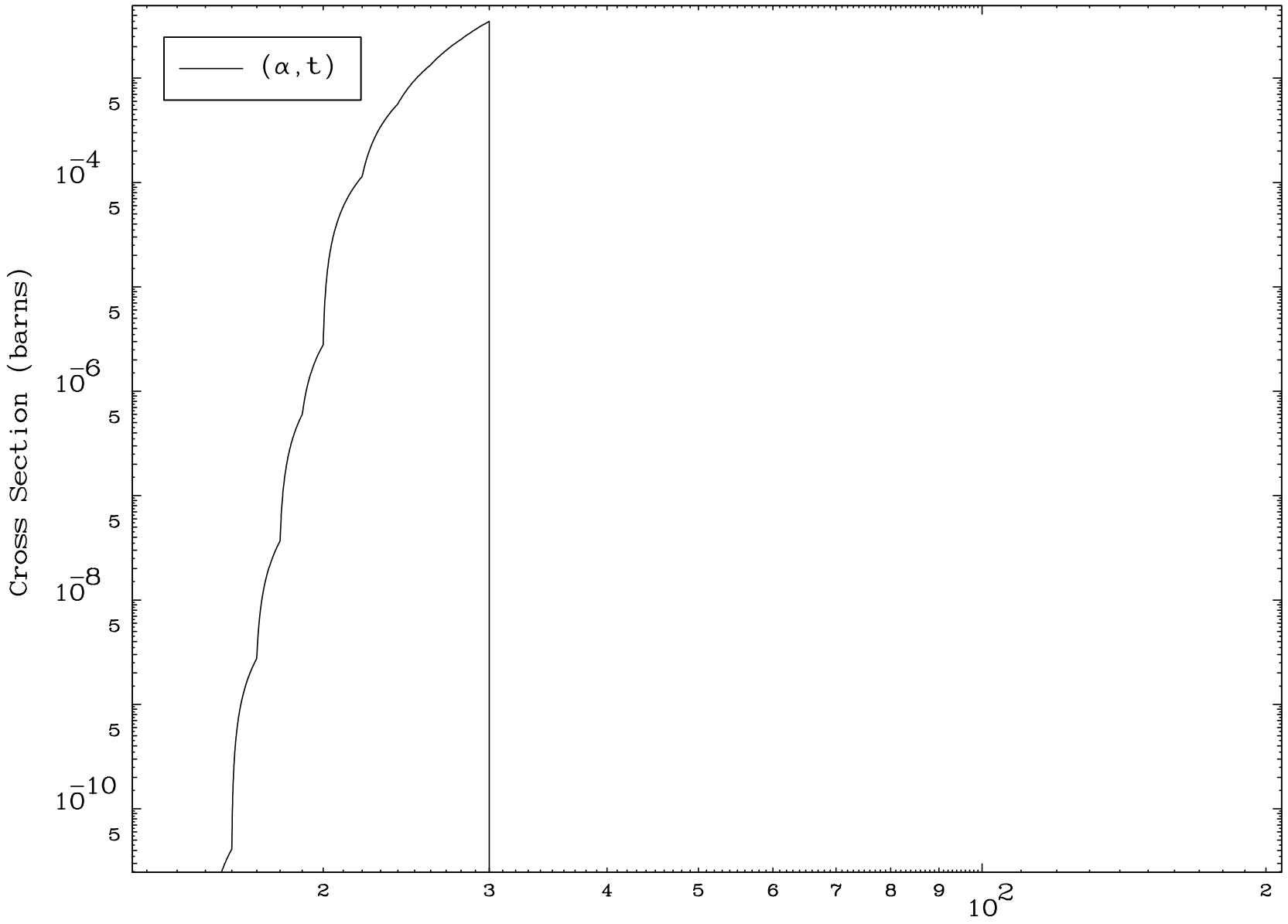

MAT 3916
α Charged Particle
0 Kelvin Cross Sections
39-Y -86
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
(α,p) t
Cross Section (barns)
Incident Energy (MeV)
4
39-Y -86

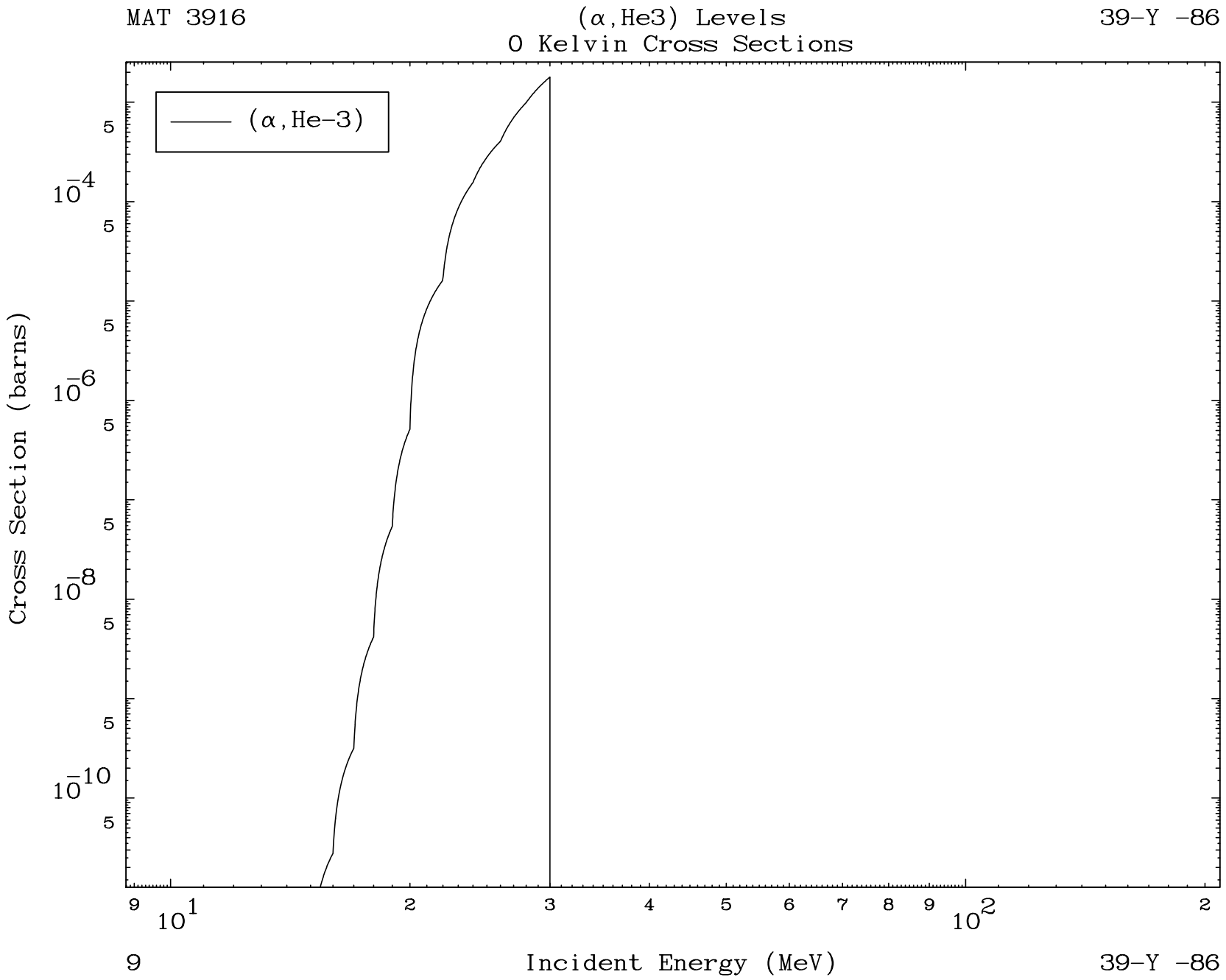

MAT 3916
(α,n') Level
39-Y -86
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
5
6
7
8
9
10 1
2
3
4
5
6
7
8
9
10 2
2
5
Incident Energy (MeV)
39-Y -86

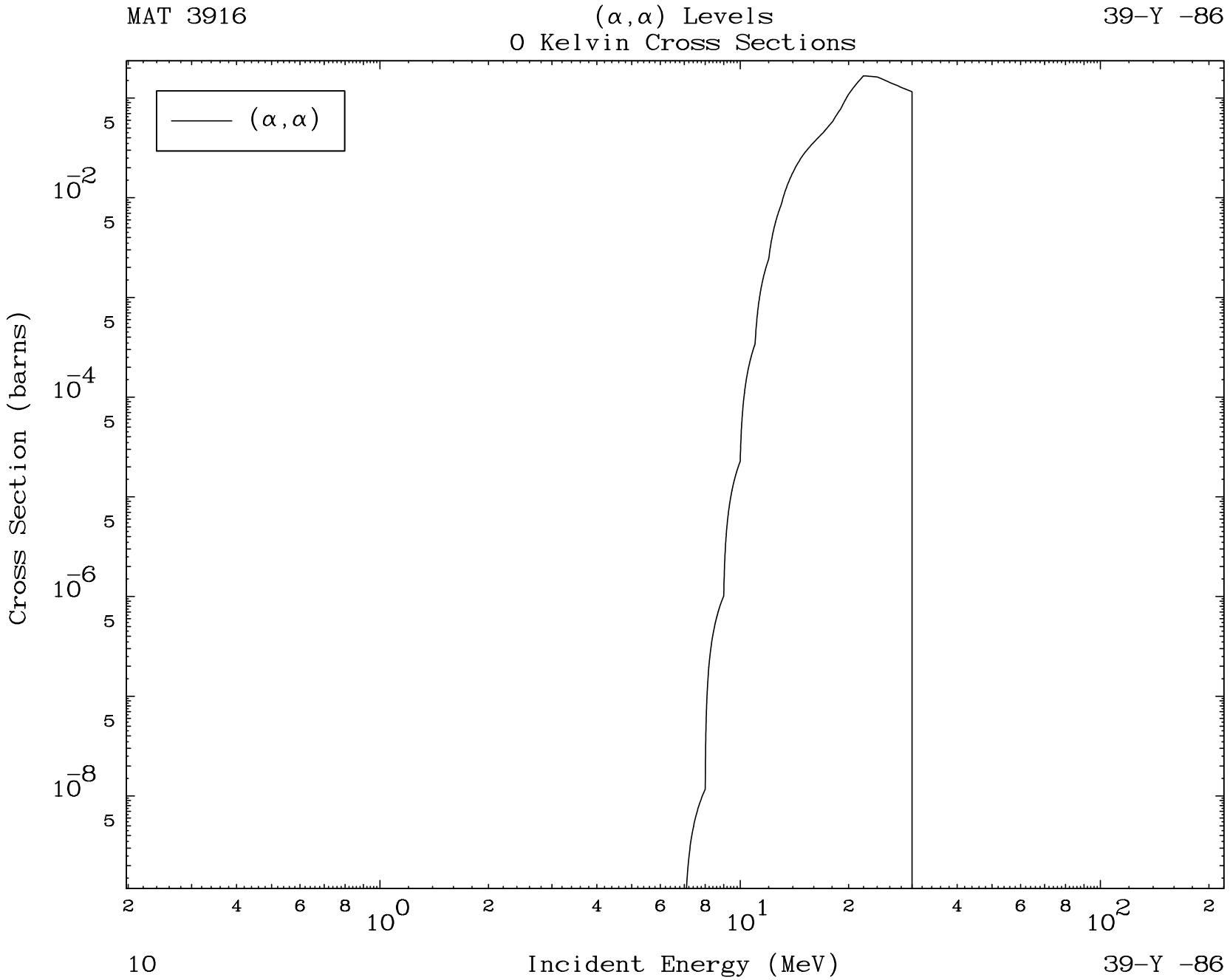

0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
10-10
10-8
10-6
10-4
10-2
100
102
Incident Energy (MeV)

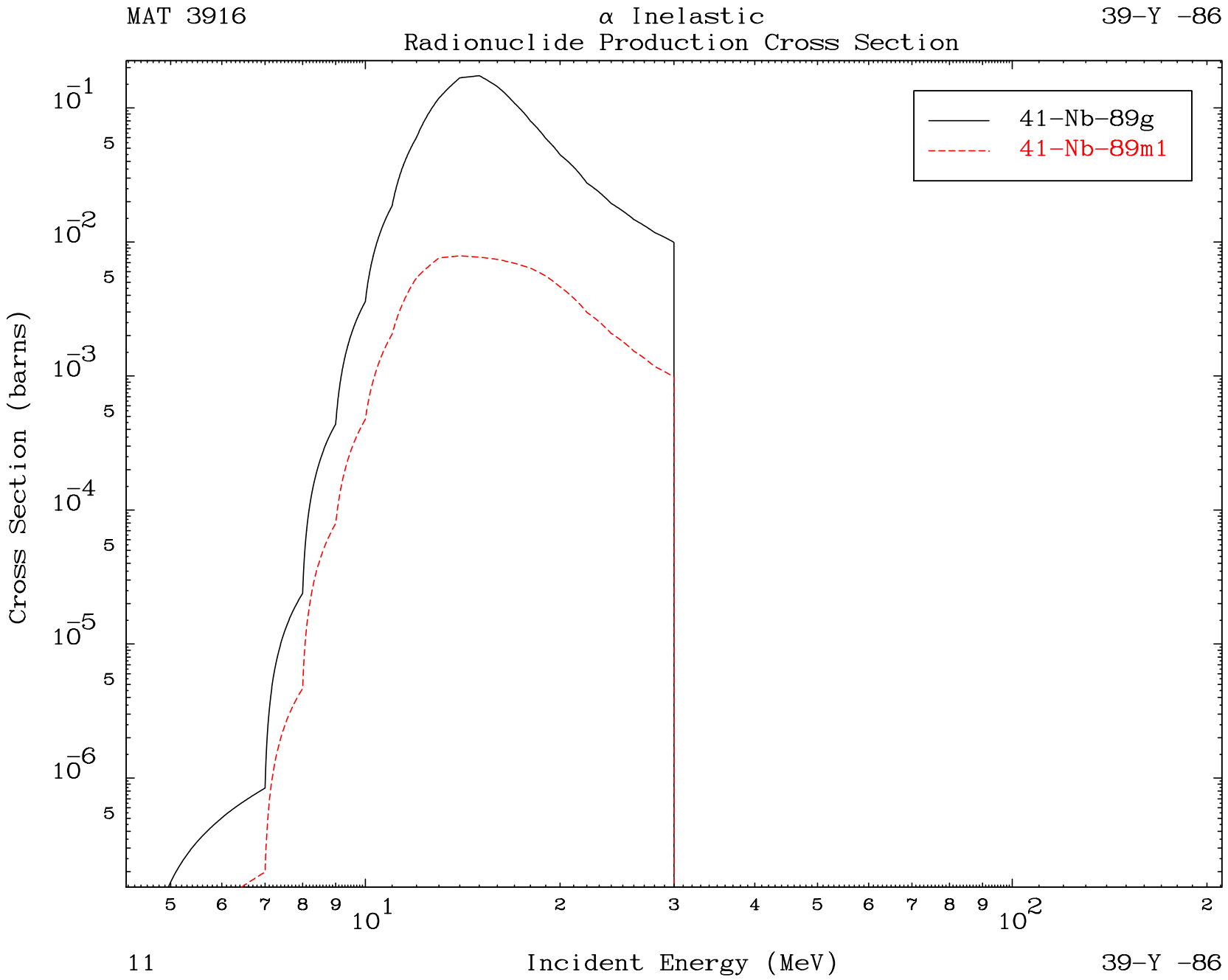

MAT 3916
(α,d) Levels
39-Y -86
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
Incident Energy (MeV)
39-Y -86
7

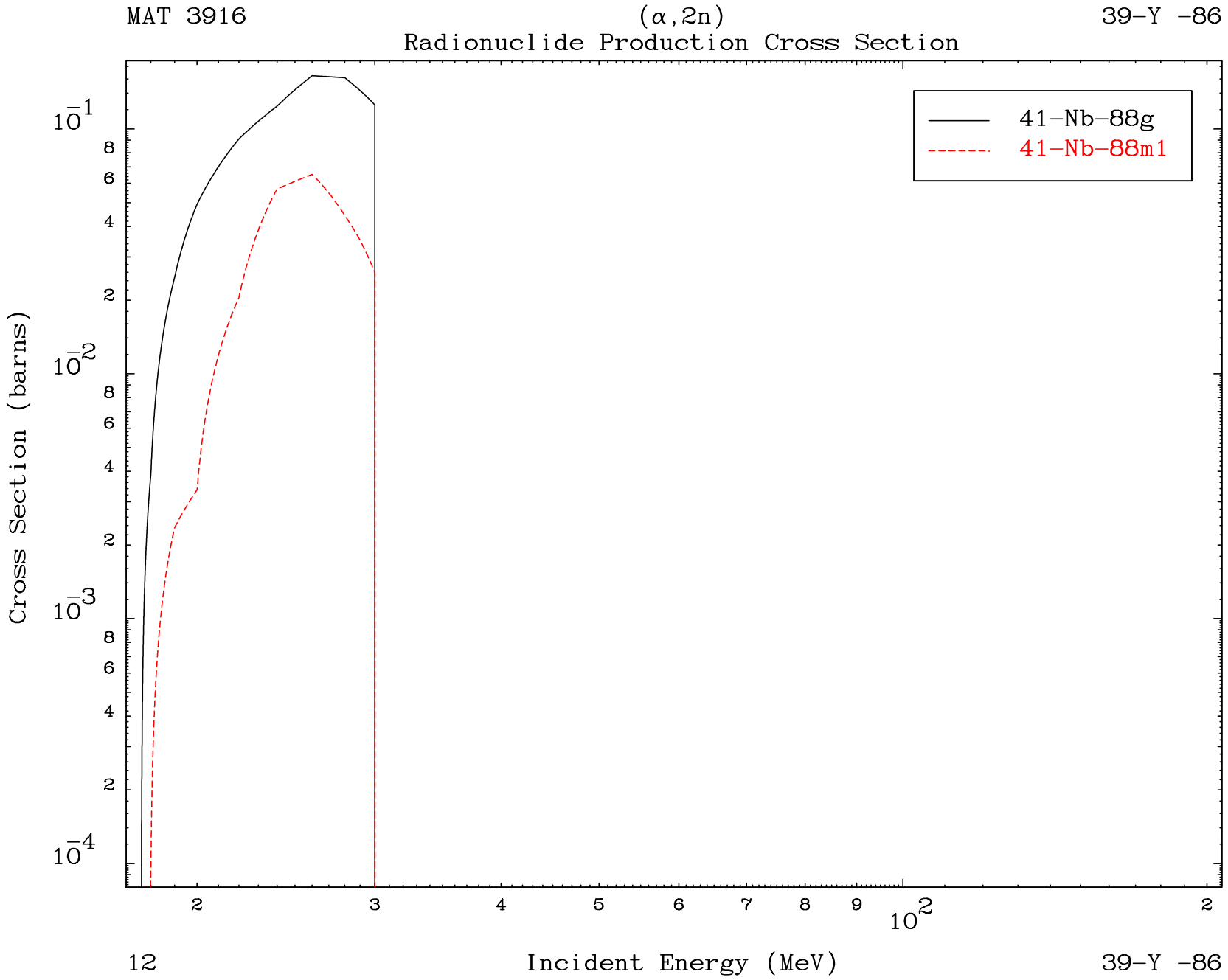
0 Kelvin Cross Sections

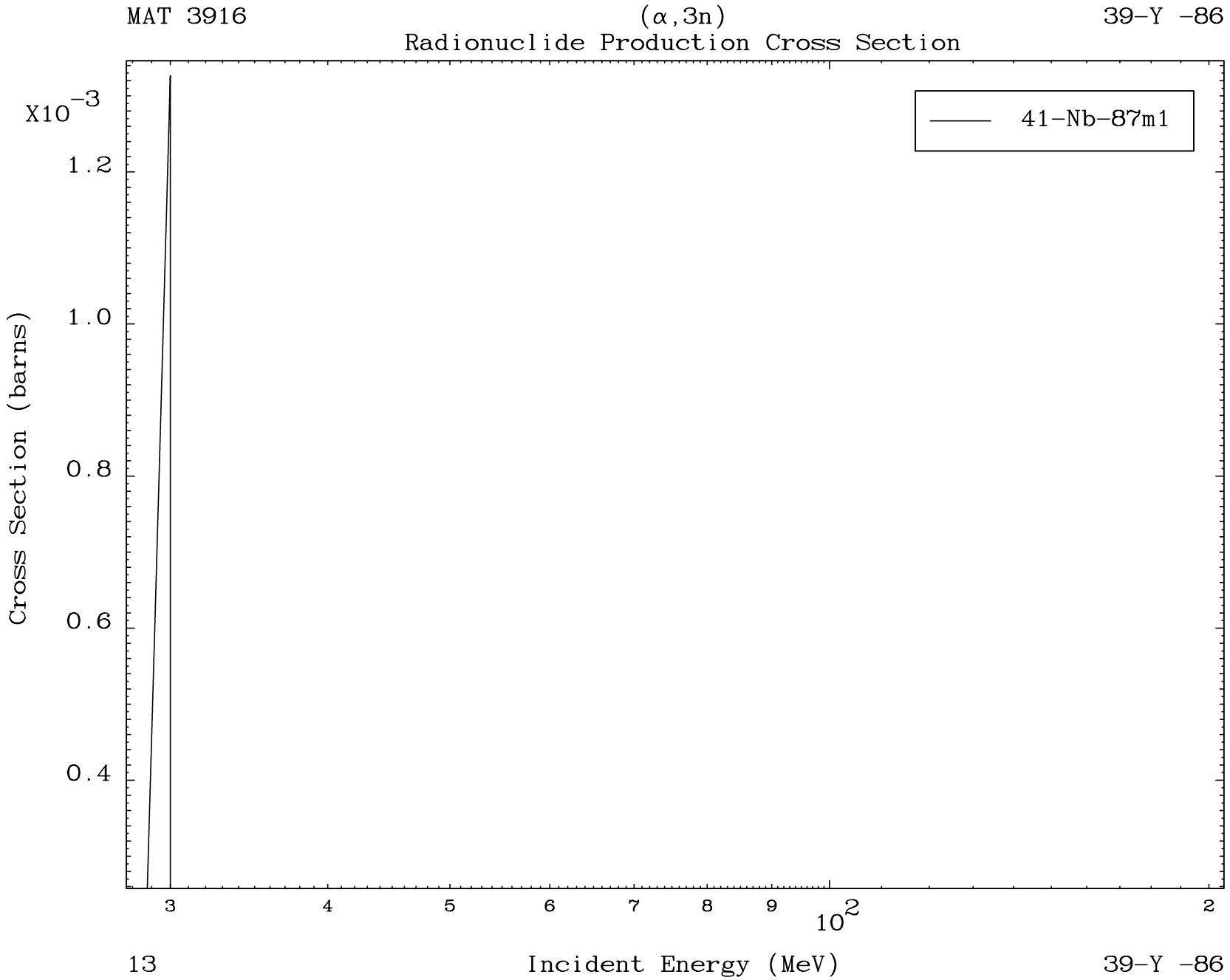


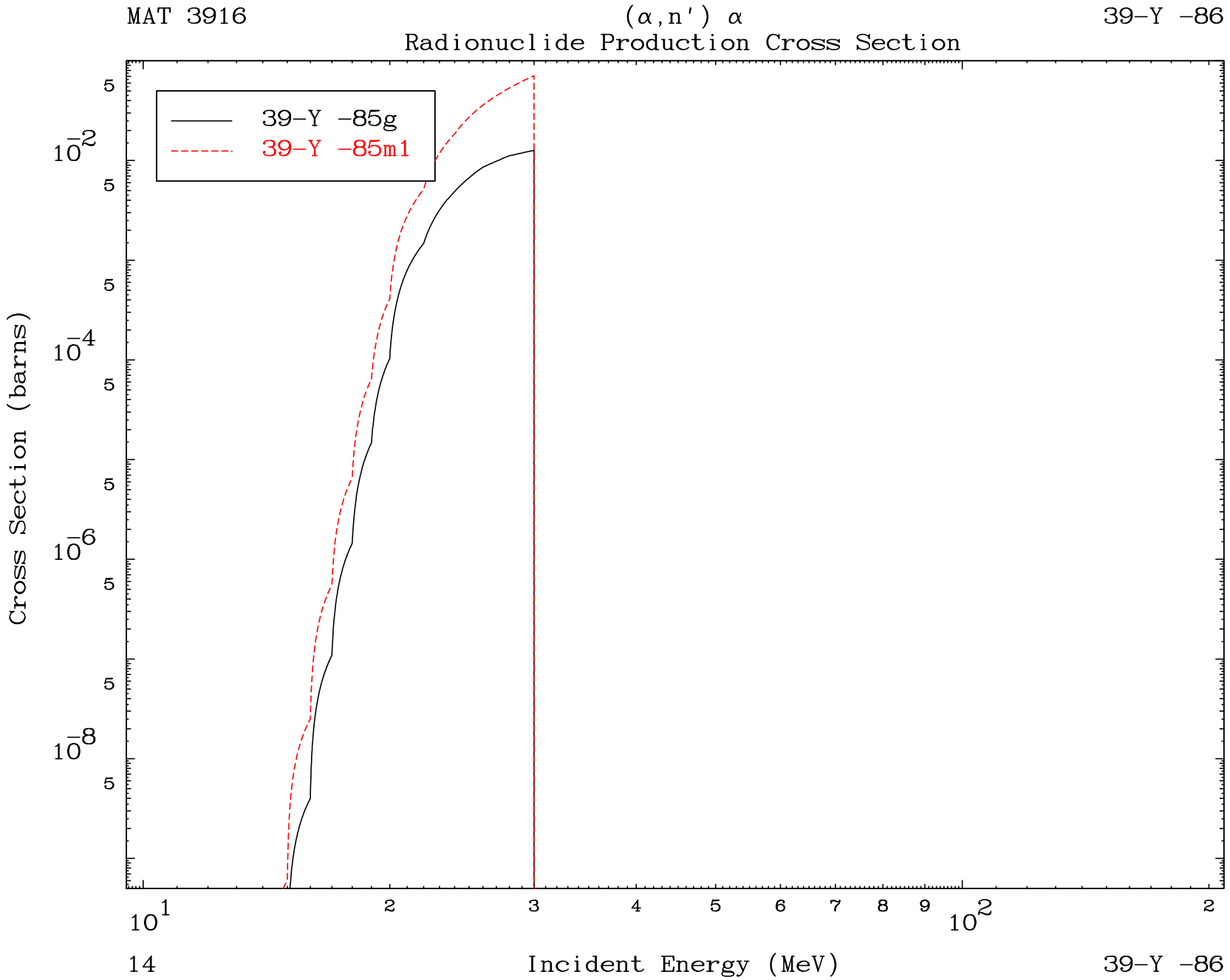

MAT 3916
(α,He3) Levels
39-Y -86
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10 1
10 2
39-Y -86

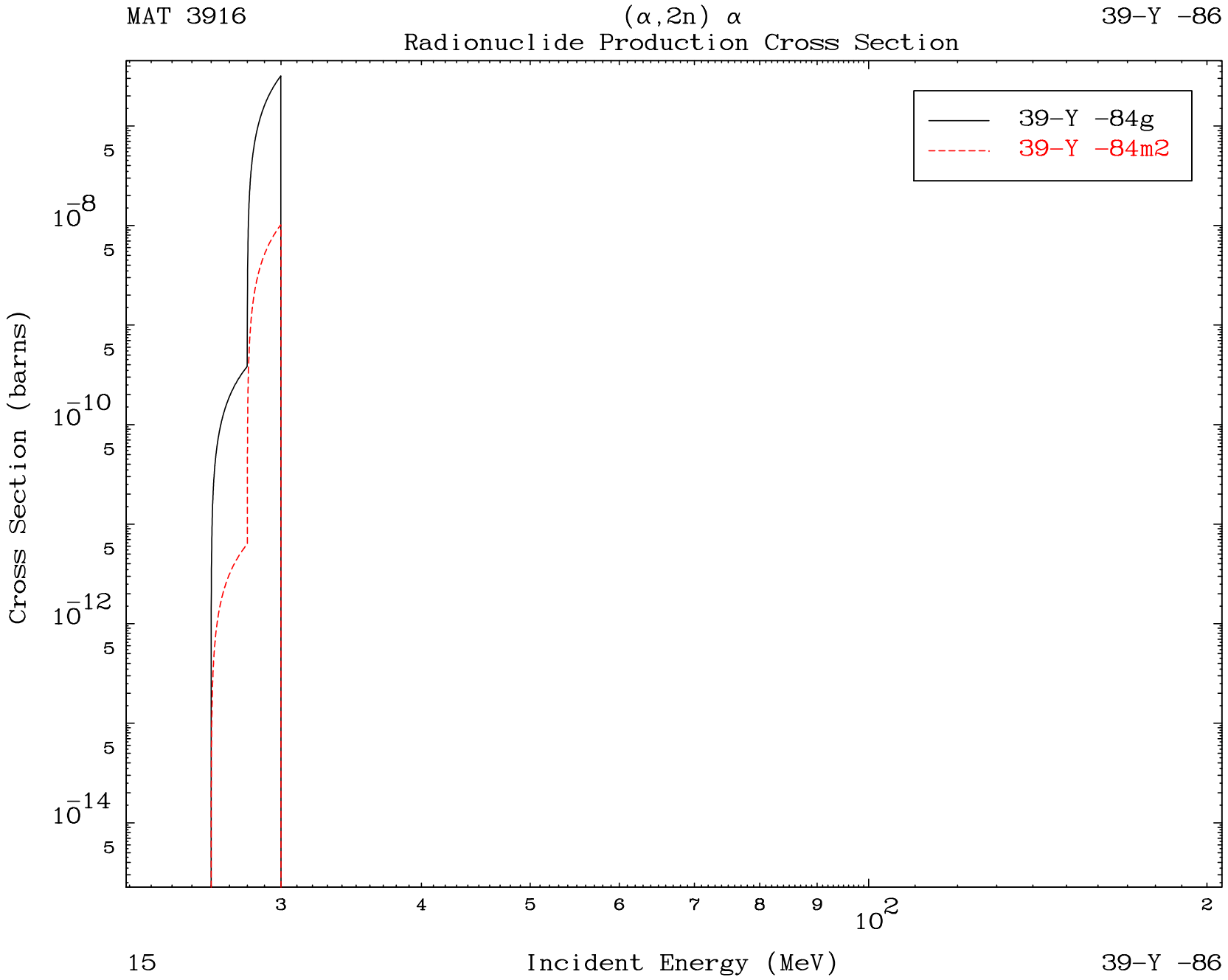

MAT 3916
(α,α) Levels
39-Y -86
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
10
39-Y -86

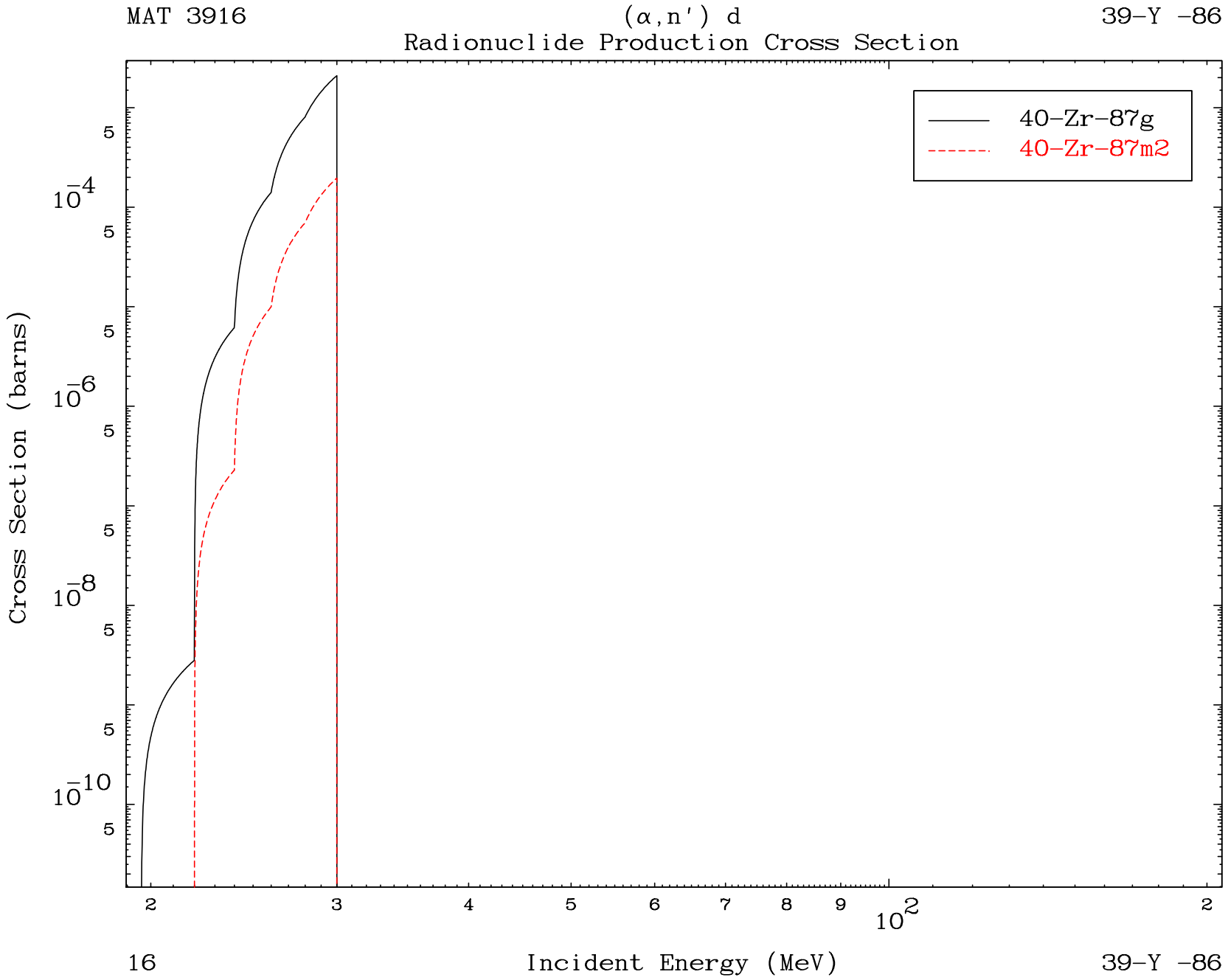

MAT 3916
α Inelastic
39-Y -86
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
Incident Energy (MeV)
11
39-Y -86

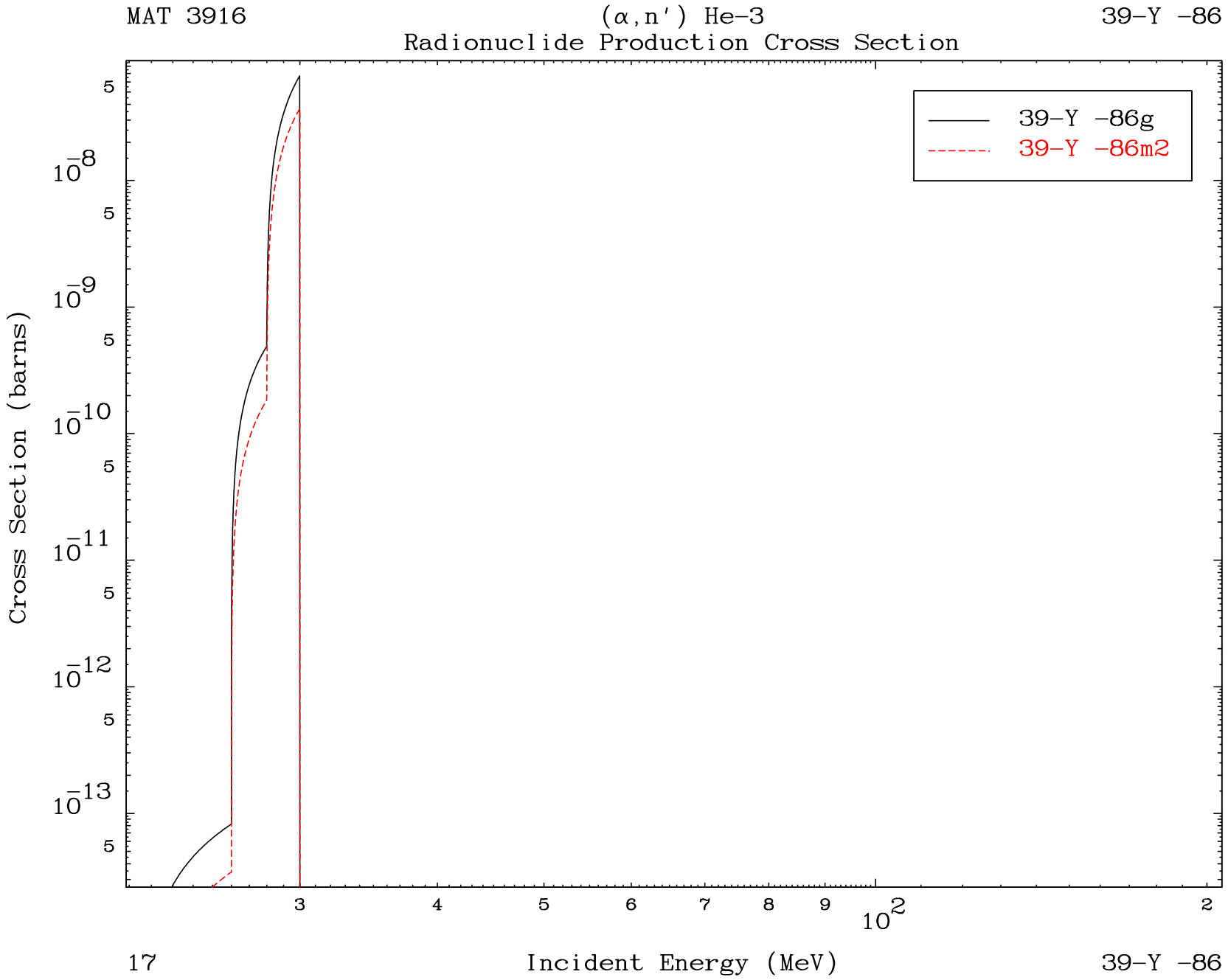

MAT 3916
(α,2n)
39-Y -86
Radionuclide Production Cross Section
41-Nb-88g
41-Nb-88m1
Cross Section (barns)
Incident Energy (MeV)
12
39-Y -86

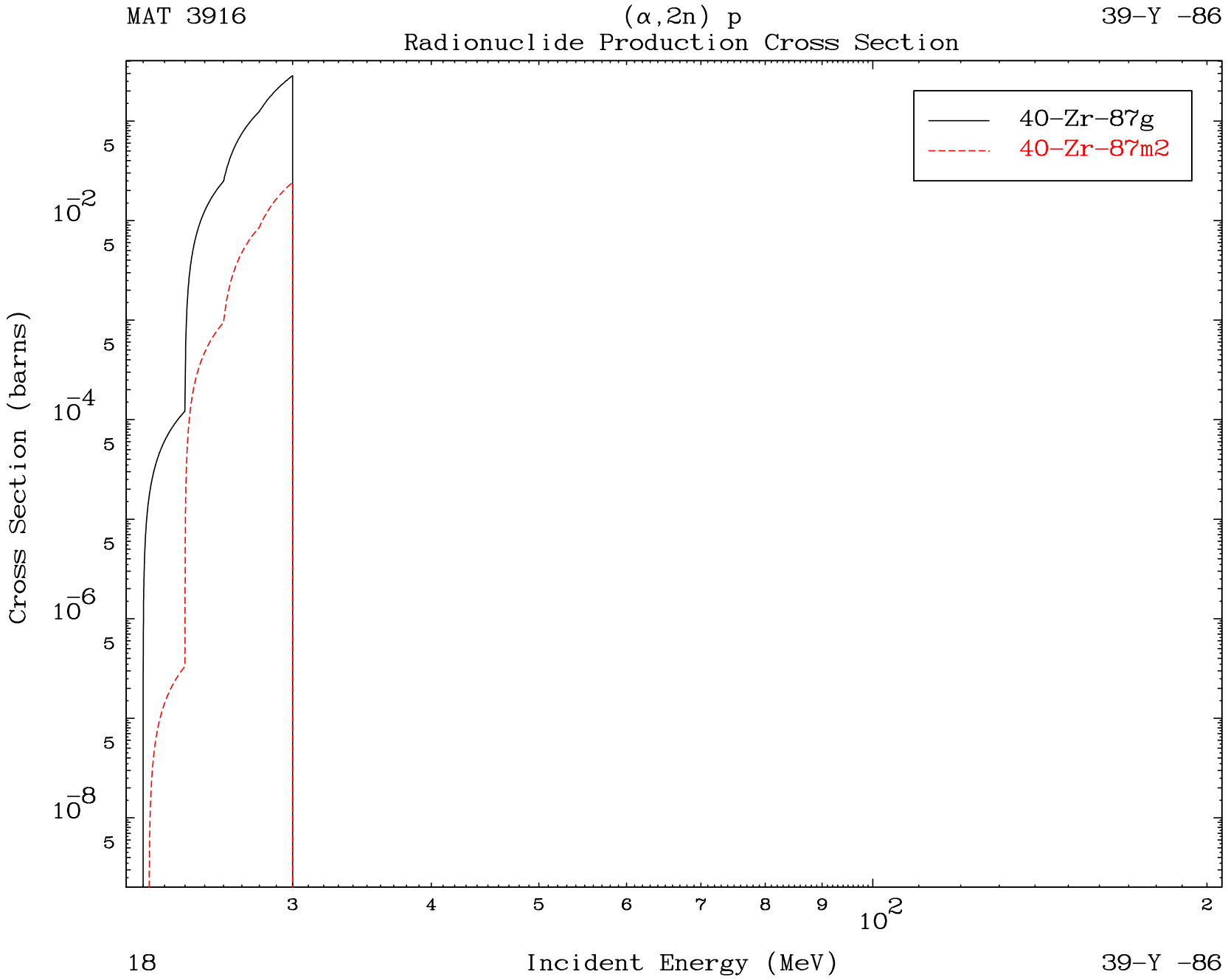

MAT 3916
(α,3n)
39-Y -86
Radionuclide Production Cross Section
X10^-3
1.2
1.0
0.8
0.6
0.4
Cross Section (barns)
41-Nb-87m1
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
39-Y -86

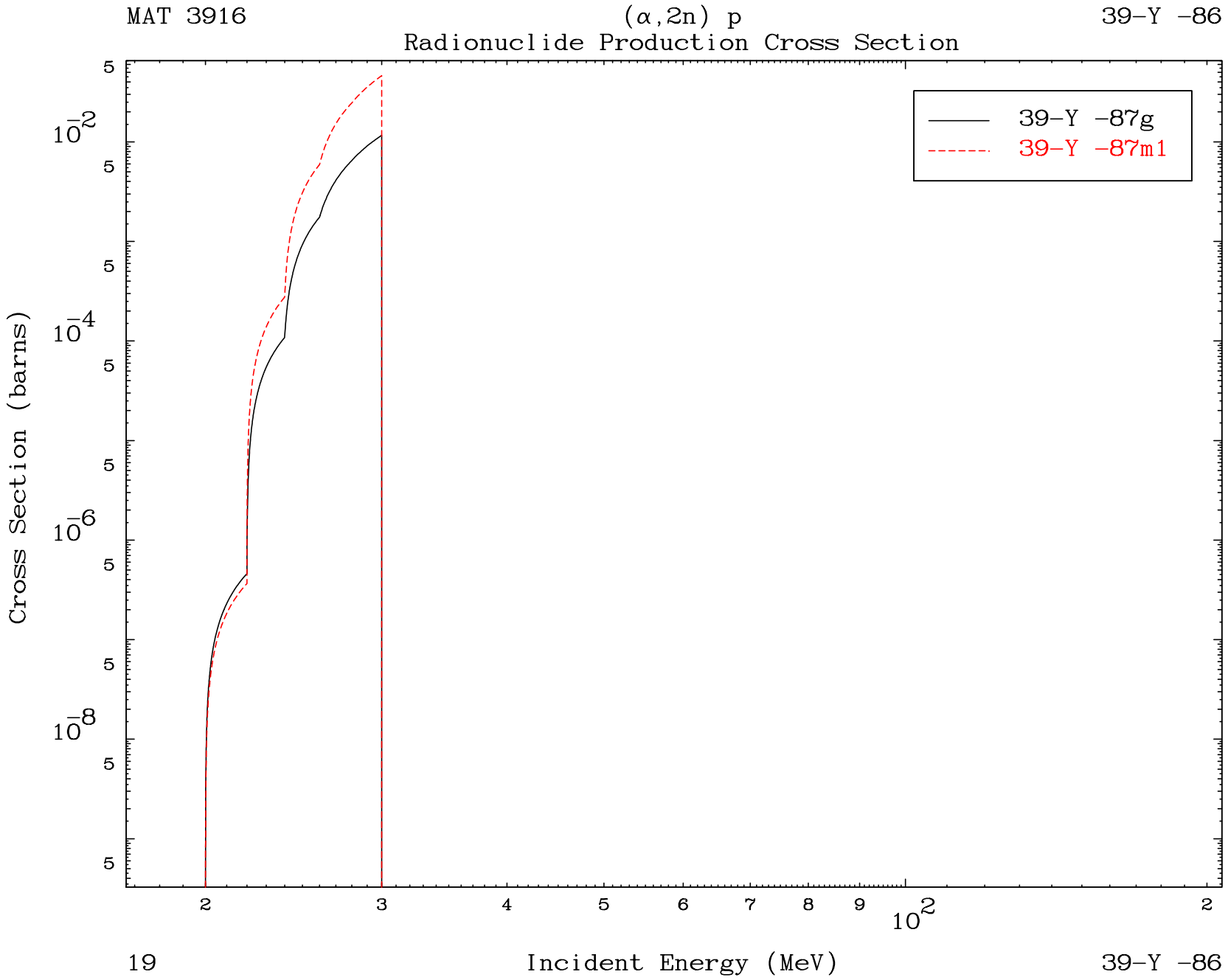

MAT 3916
(α,n') α
39-Y -86
Radionuclide Production Cross Section
39-Y -85g
39-Y -85m1
Cross Section (barns)
Incident Energy (MeV)
14
39-Y -86

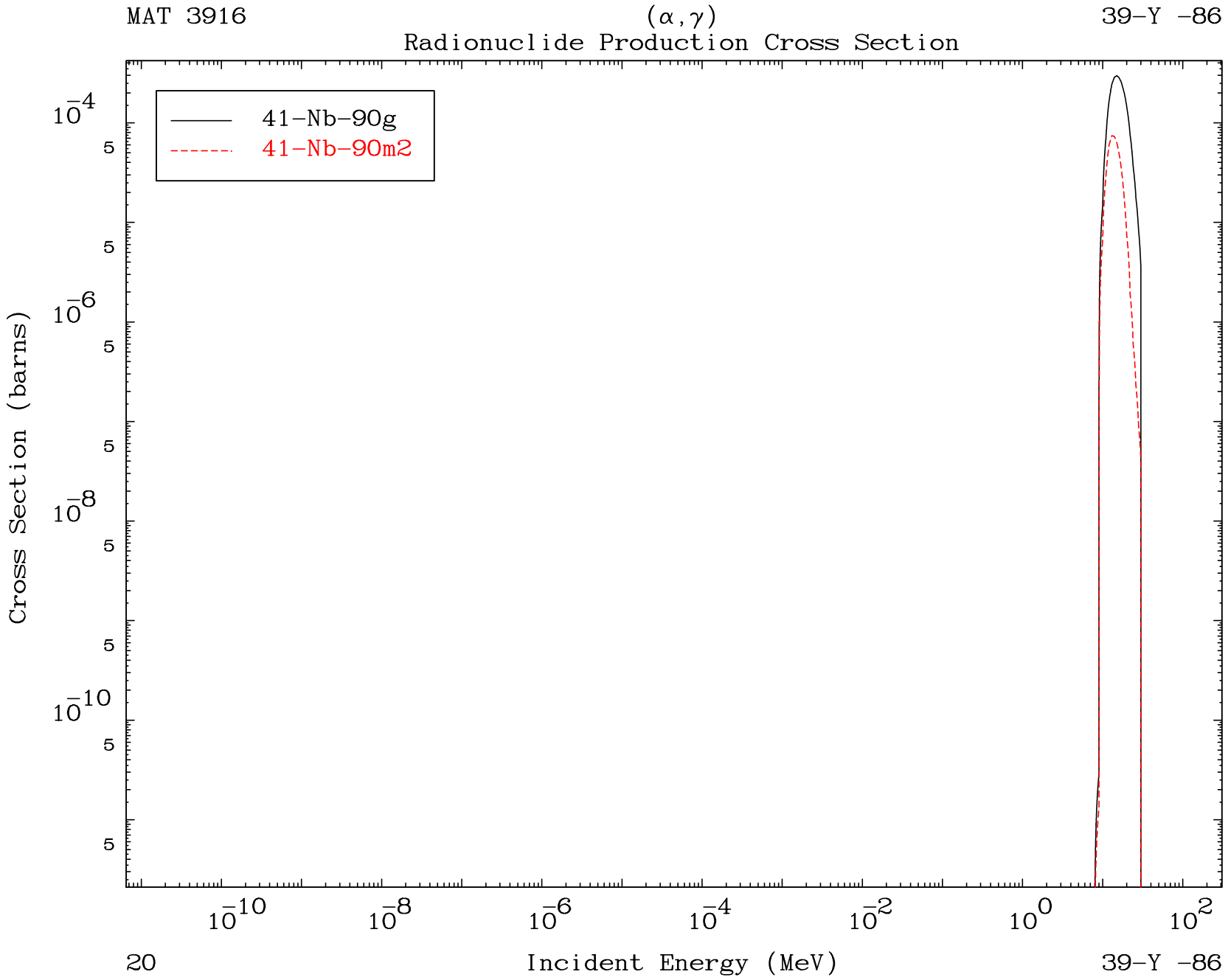

MAT 3916
(α,2n) α
39-Y -86
Radionuclide Production Cross Section
39-Y -84g
39-Y -84m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
39-Y -86

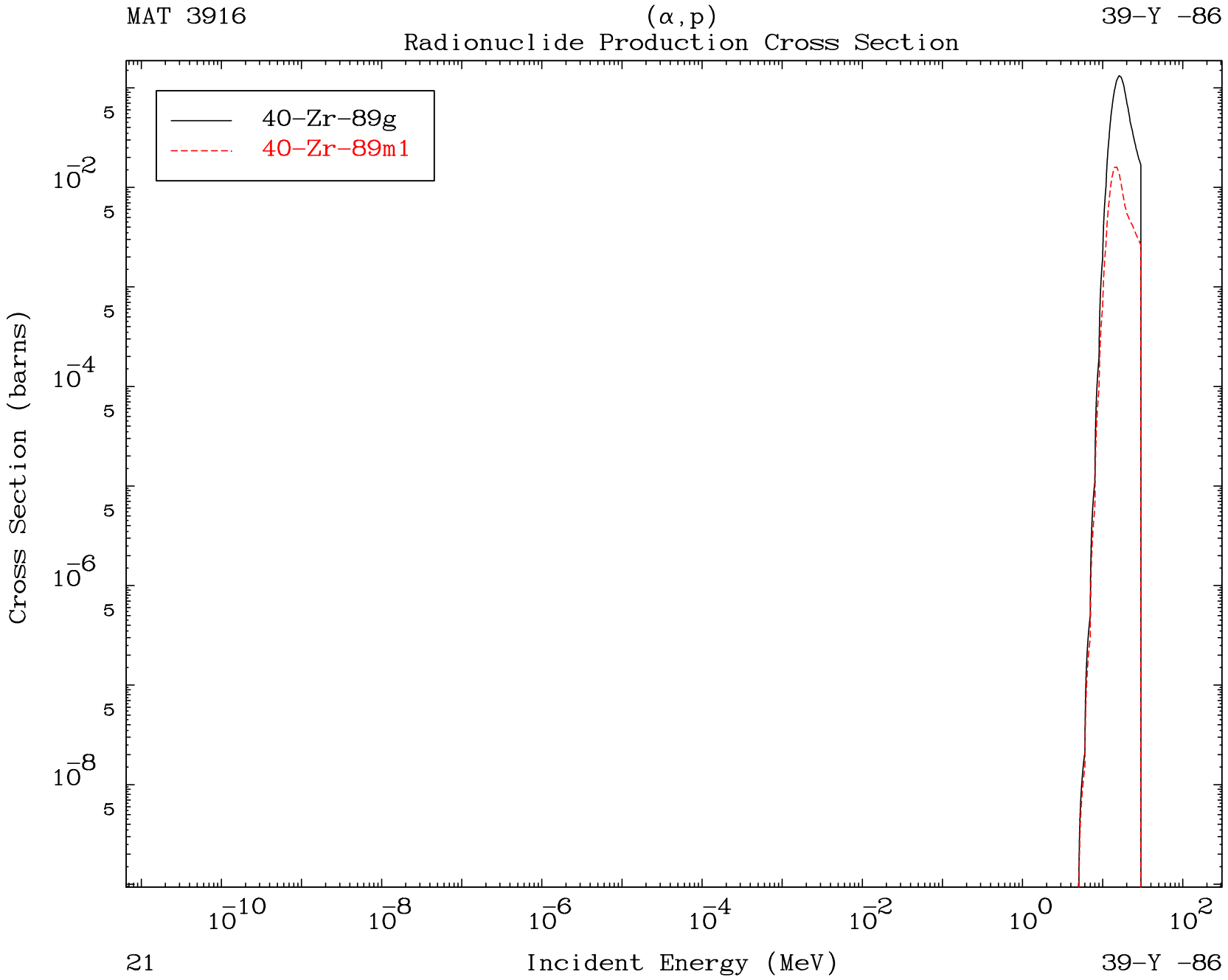

MAT 3916
(α,n') d
39-Y -86
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
16
39-Y -86

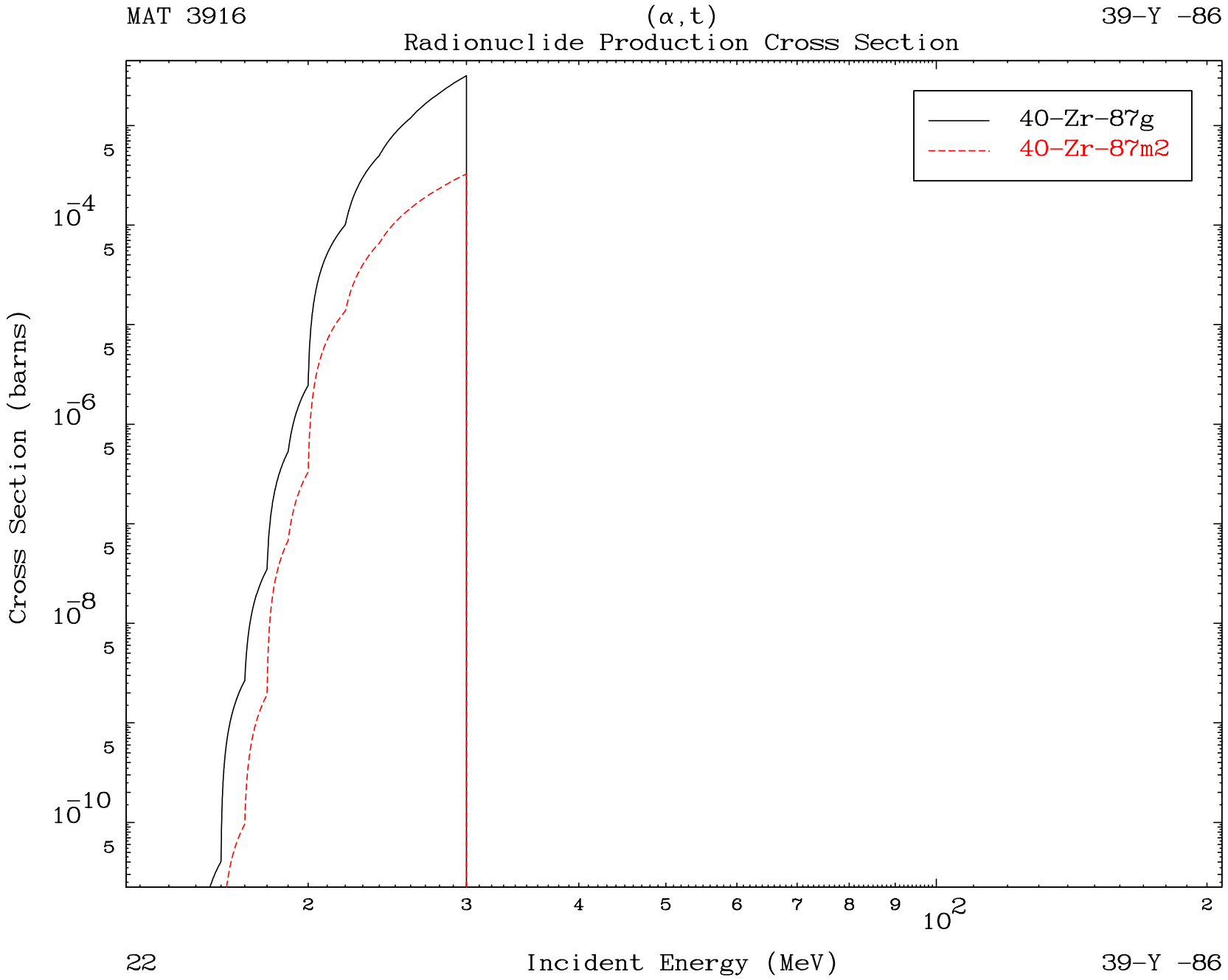

MAT 3916
(α,n') He-3
39-Y -86
Radionuclide Production Cross Section
39-Y -86g
39-Y -86m2
Cross Section (barns)
10-8
10-9
10-10
10-11
10-12
10-13
5
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
39-Y -86

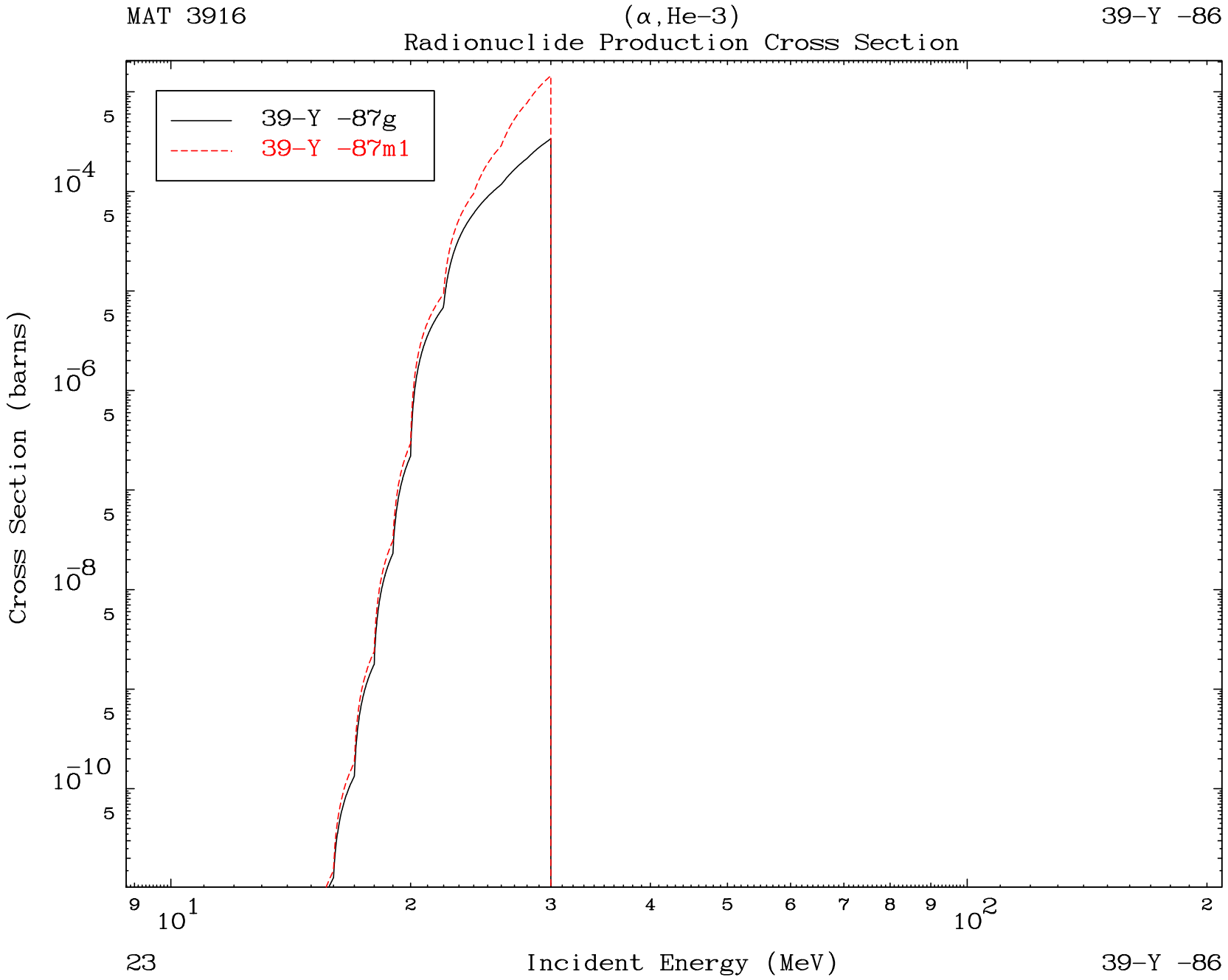

MAT 3916
(α,2n) p
39-Y -86
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
39-Y -86

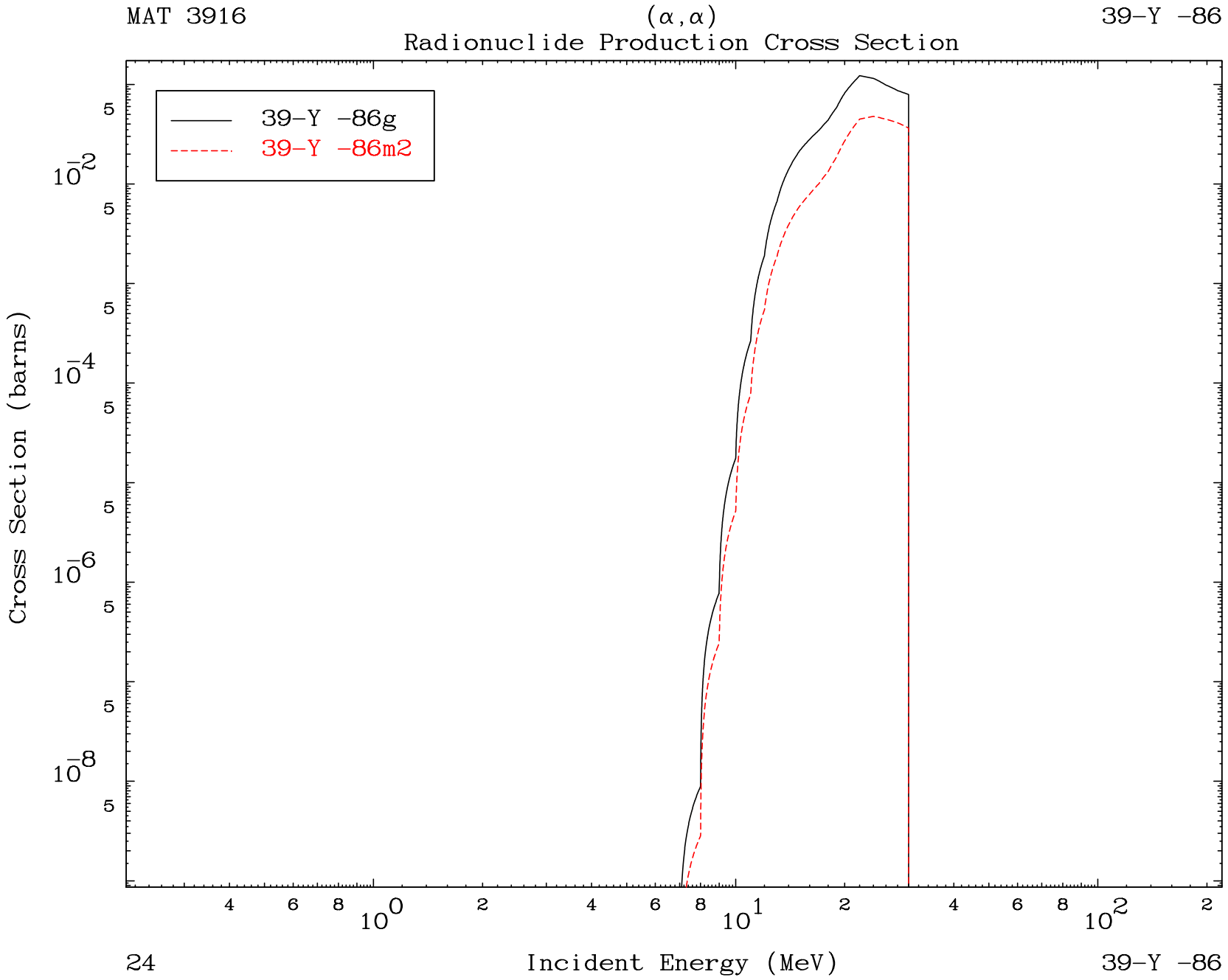

MAT 3916
(α,2n) p
39-Y -86
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
Incident Energy (MeV)
19
39-Y -86

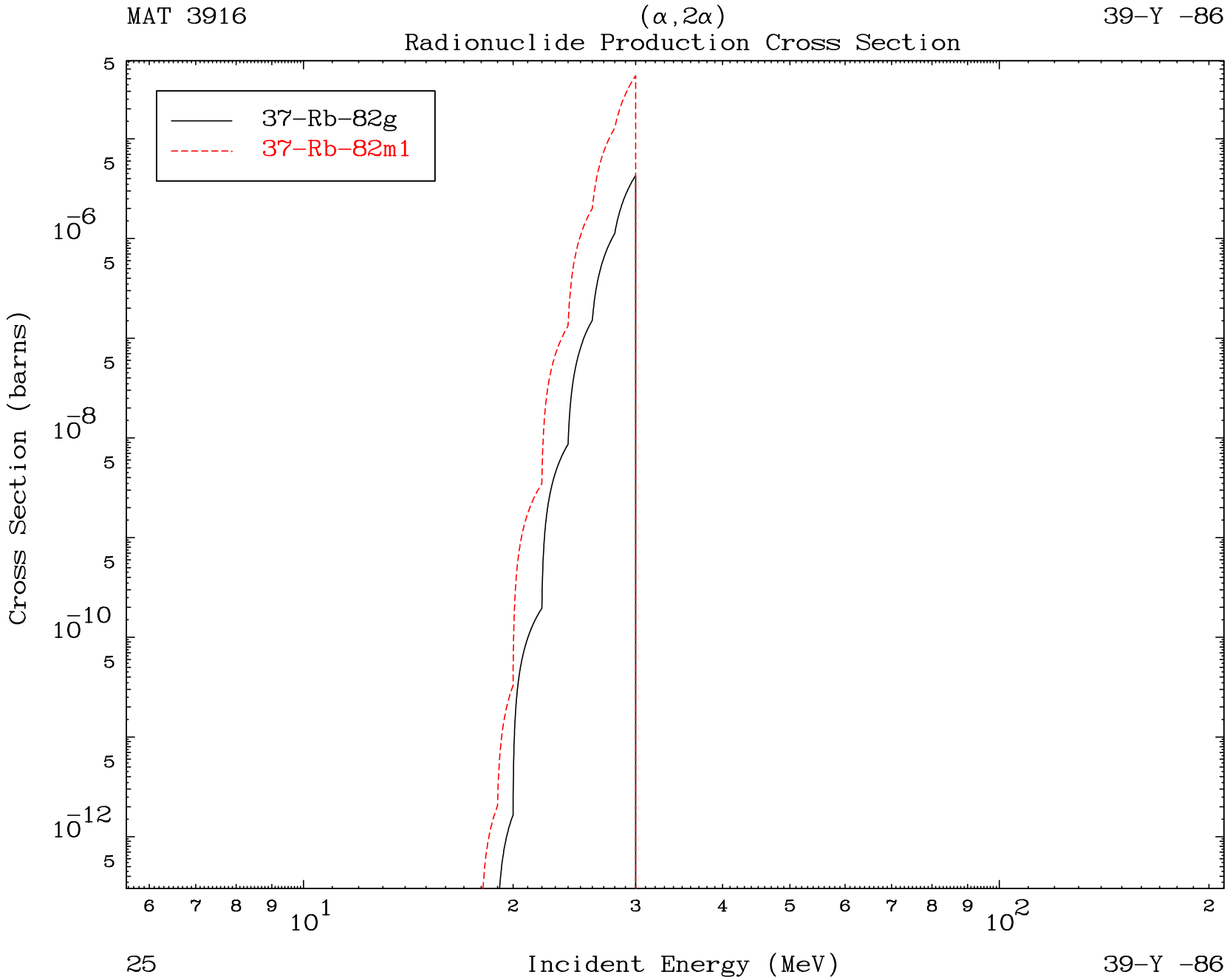

MAT 3916
(α,γ)
39-Y -86
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
20
Incident Energy (MeV)
39-Y -86

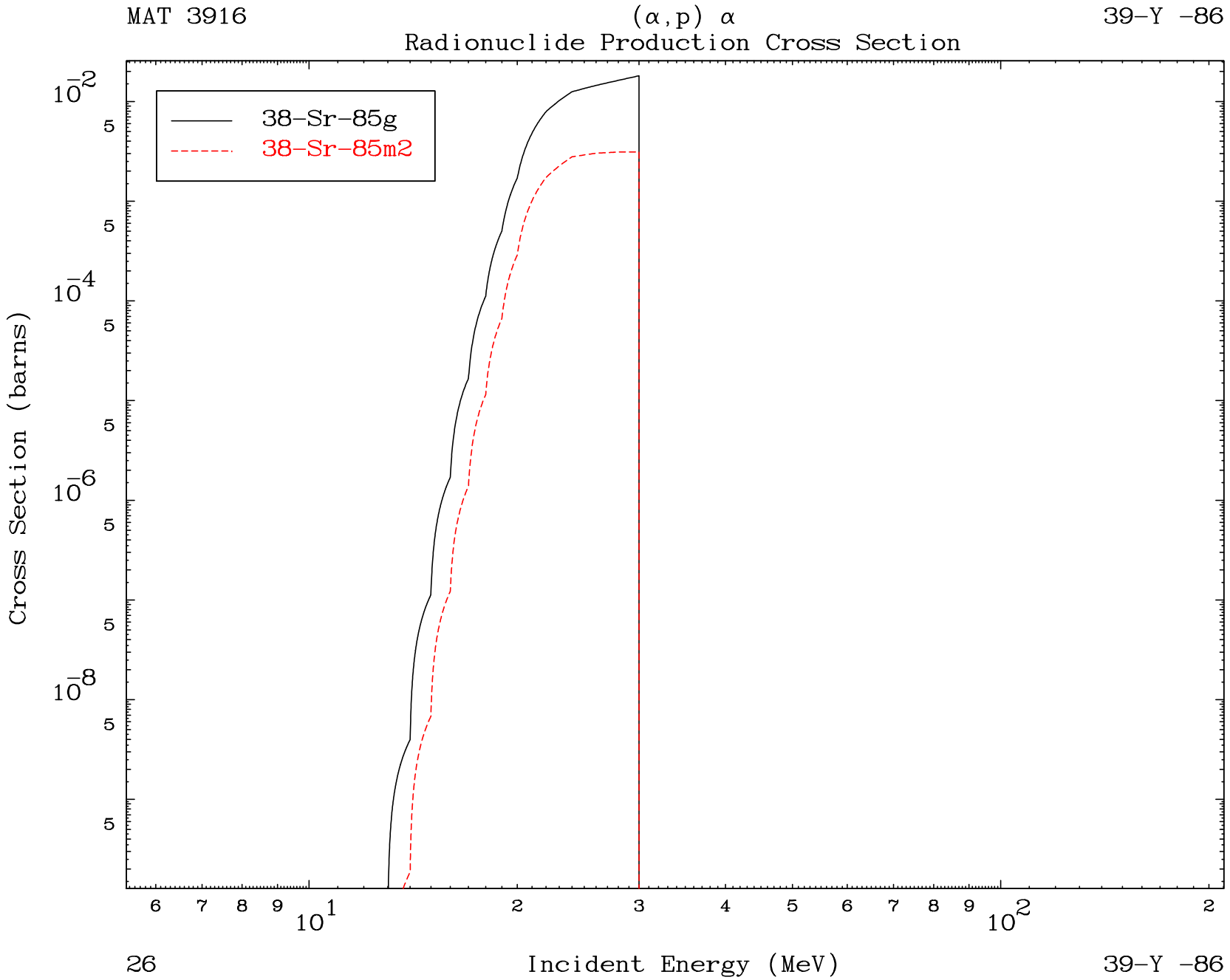

MAT 3916
(α,p)
39-Y -86
Radionuclide Production Cross Section
40-Zr-89g
40-Zr-89m1
Cross Section (barns)
Incident Energy (MeV)
21
39-Y -86

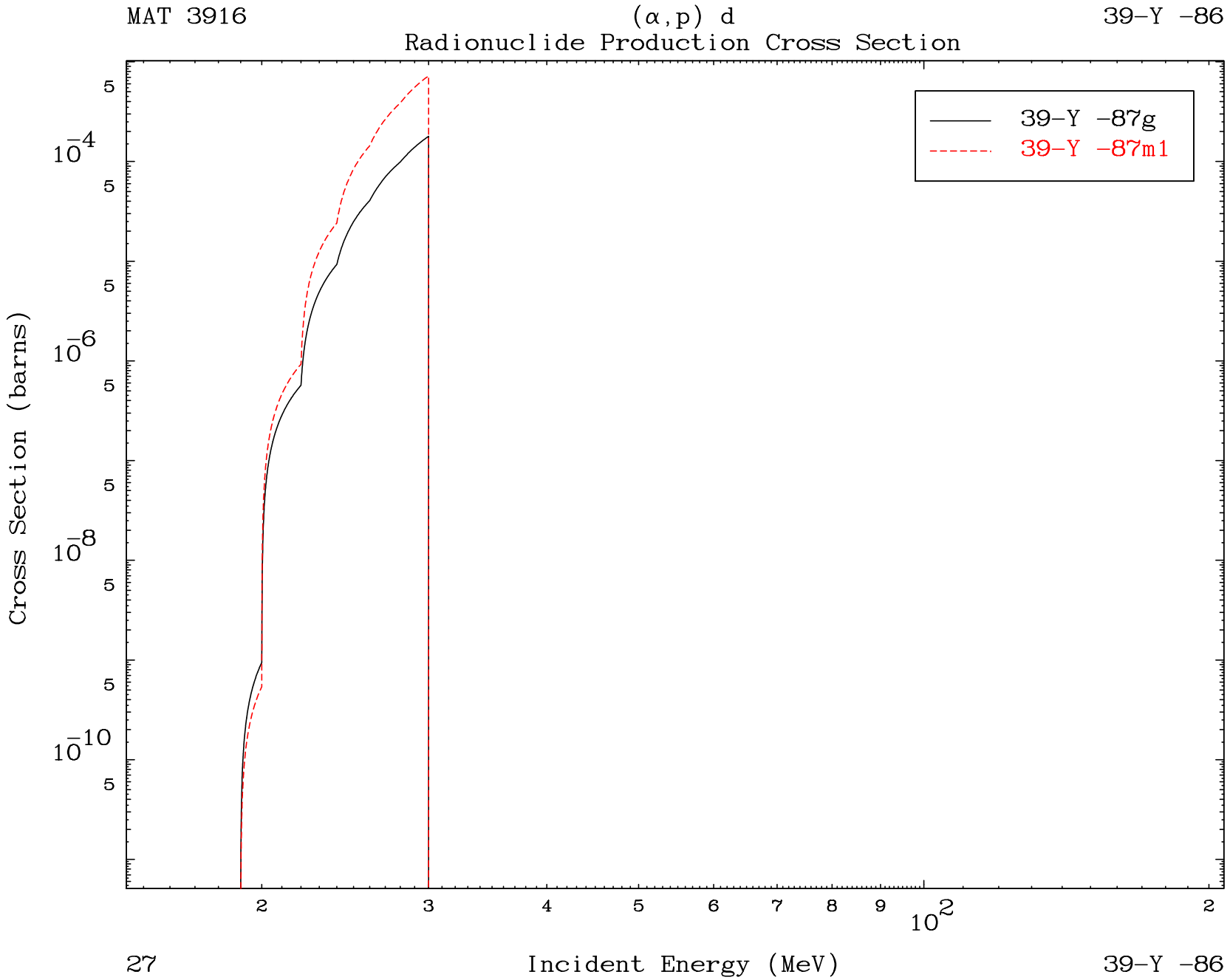

MAT 3916
(α,t)
39-Y -86
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
22
Incident Energy (MeV)
39-Y -86

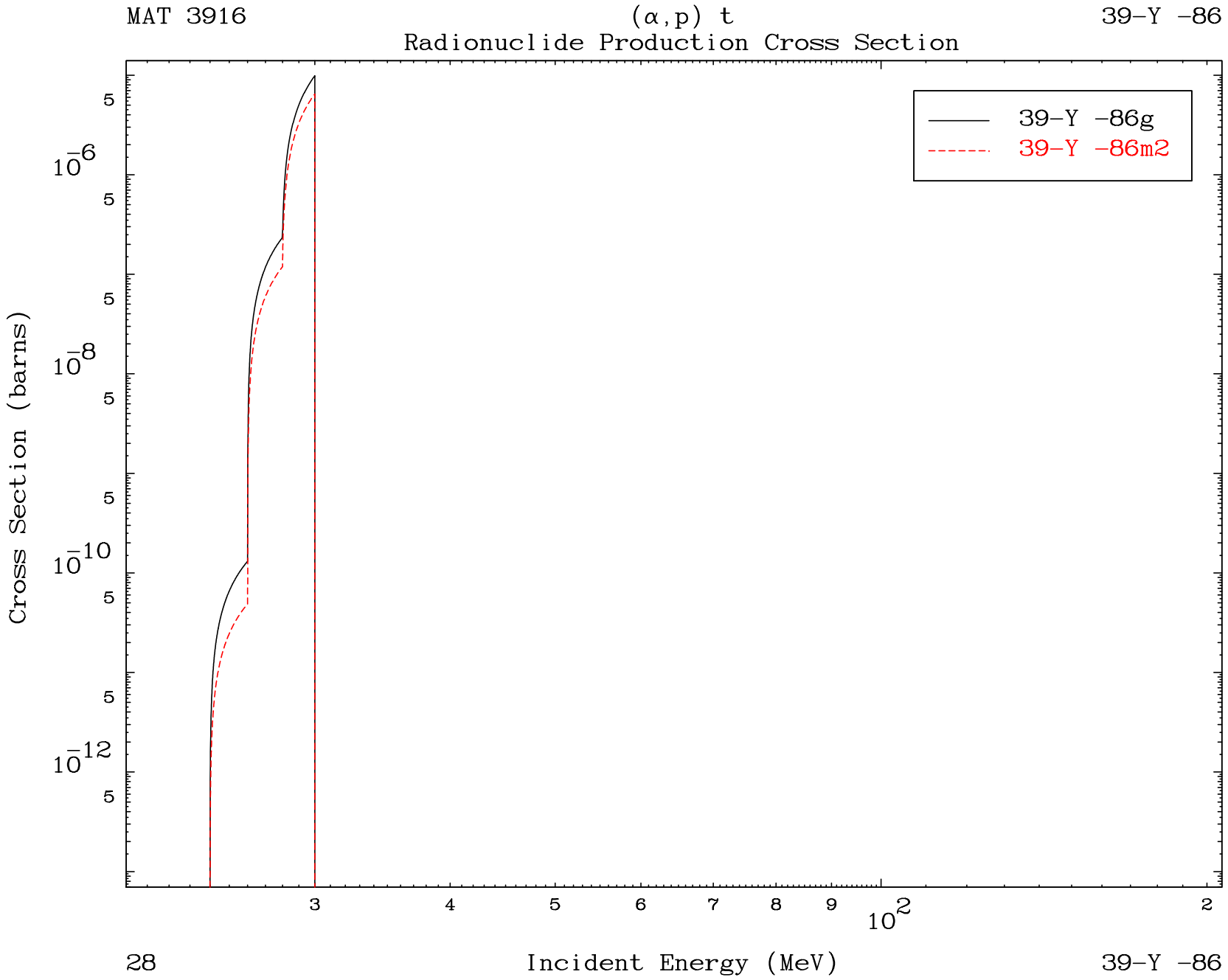

MAT 3916
(α,He-3)
39-Y -86
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
23
39-Y -86


MAT 3916
(α,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)
24
39-Y -86


MAT 3916
(α,2α)
39-Y -86
Radionuclide Production Cross Section
37-Rb-82g
37-Rb-82m1
Cross Section (barns)
Incident Energy (MeV)
25
39-Y -86


MAT 3916
(α,p) α
39-Y -86
Radionuclide Production Cross Section
38-Sr-85g
38-Sr-85m2
Cross Section (barns)
Incident Energy (MeV)
26
39-Y -86


MAT 3916
(α,p) d
39-Y -86
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
27
Incident Energy (MeV)
39-Y -86


MAT 3916
(α,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
28
Incident Energy (MeV)
39-Y -86