Program EVALPLOT
(Version 2021-1)
by
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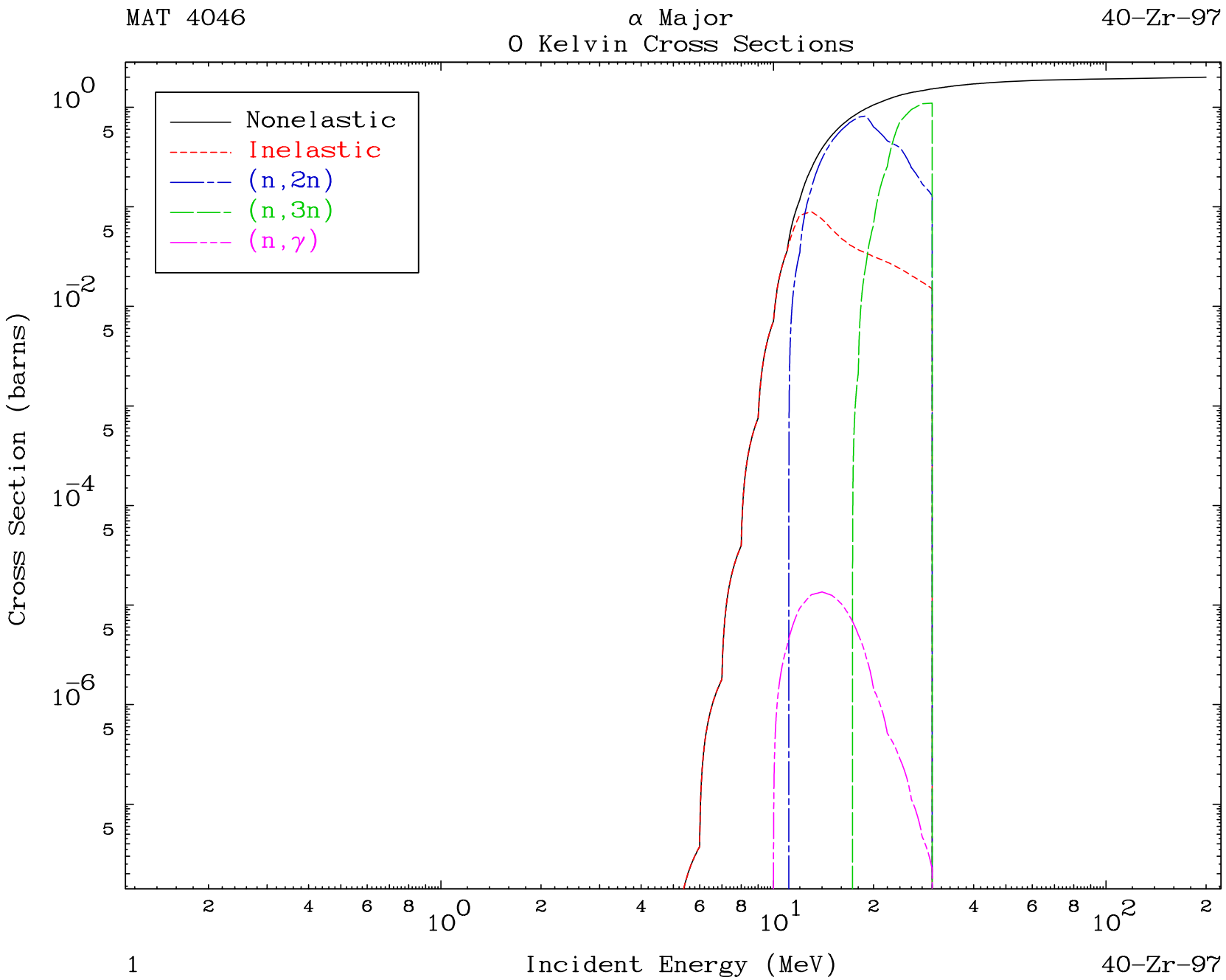
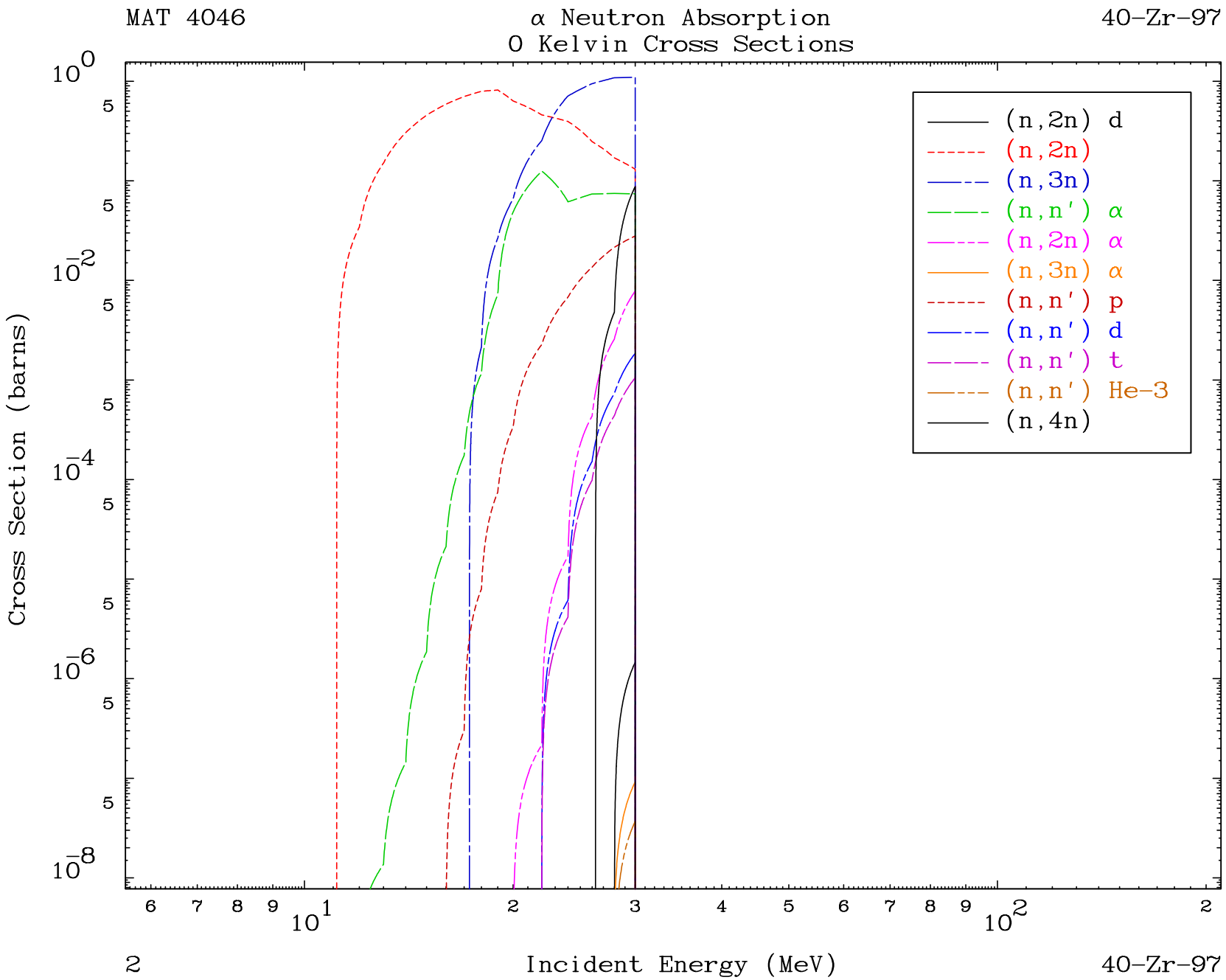
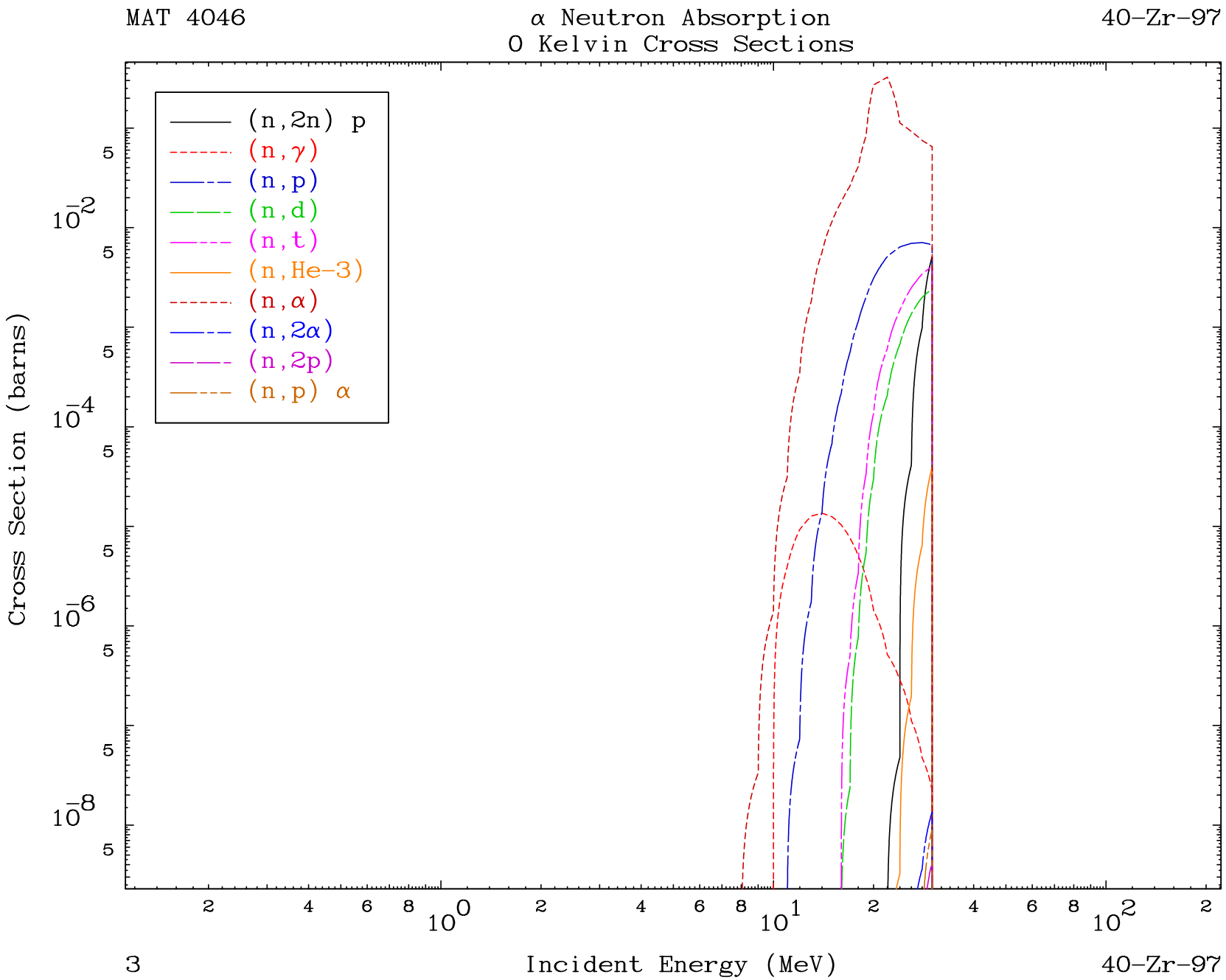
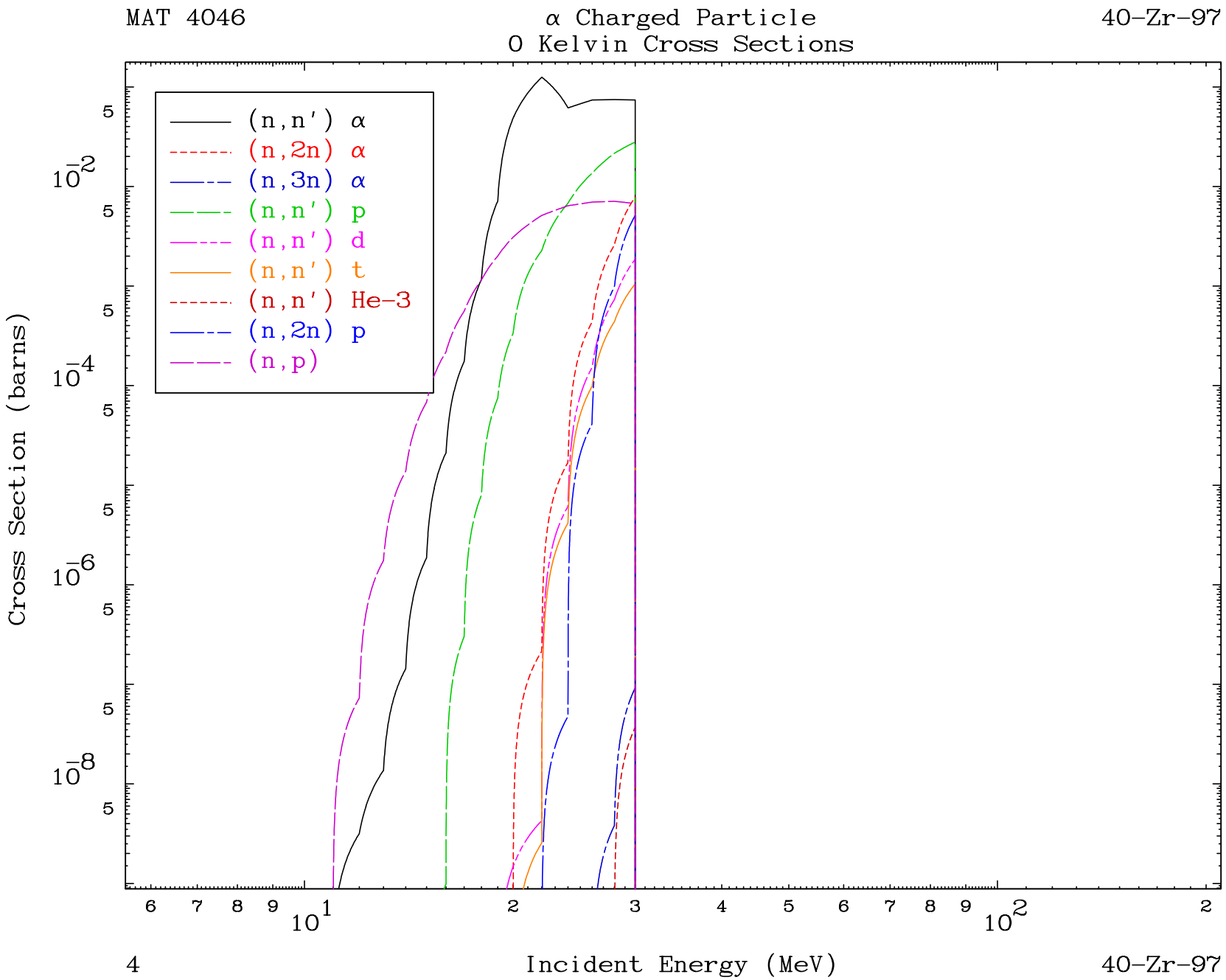
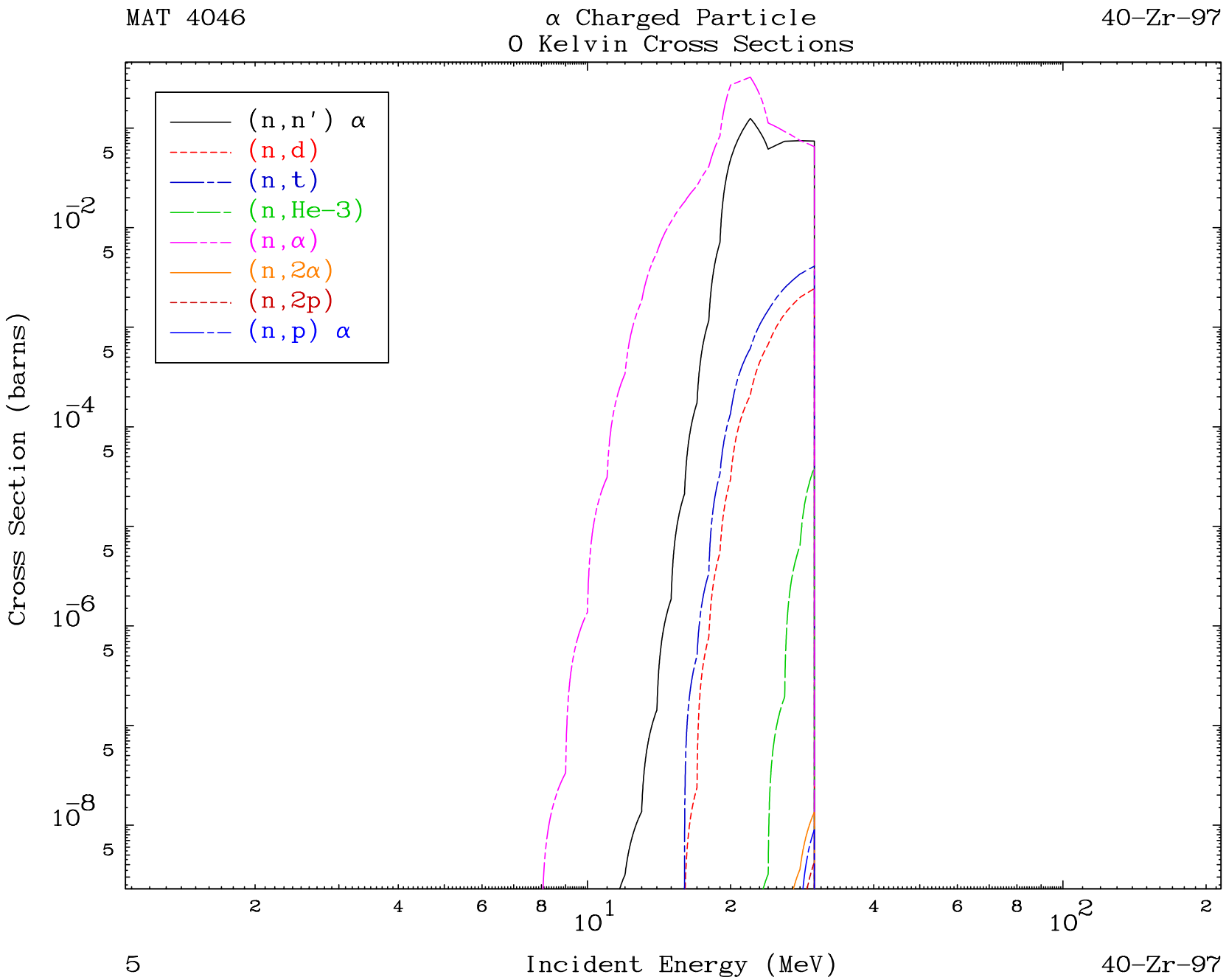
Press Mouse Button to Start

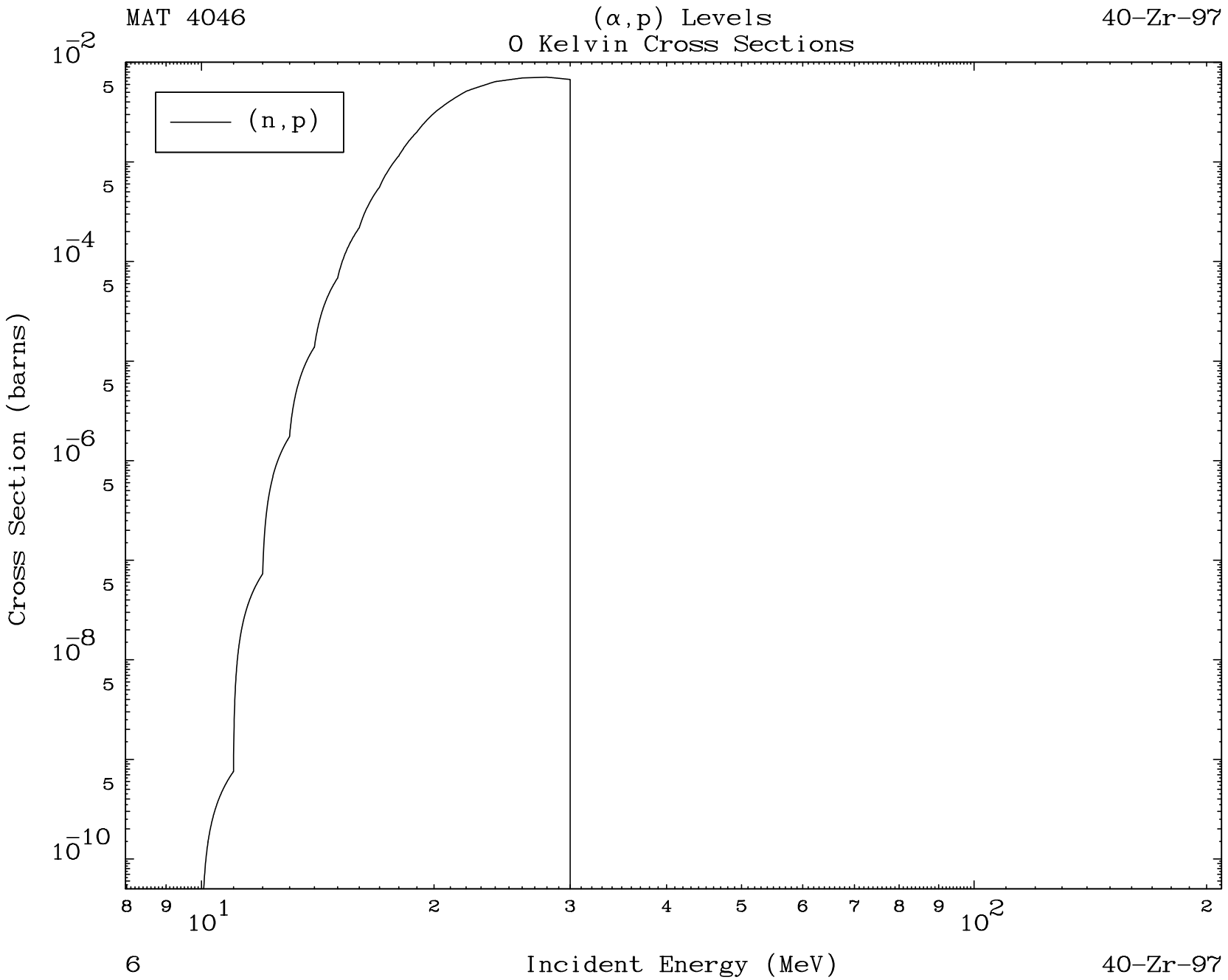

MAT 4046
α Major
40-Zr-97
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
40-Zr-97
1


MAT 4046
α Neutron Absorption
0 Kelvin Cross Sections
40-Zr-97
Cross Section (barns)
Incident Energy (MeV)
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)

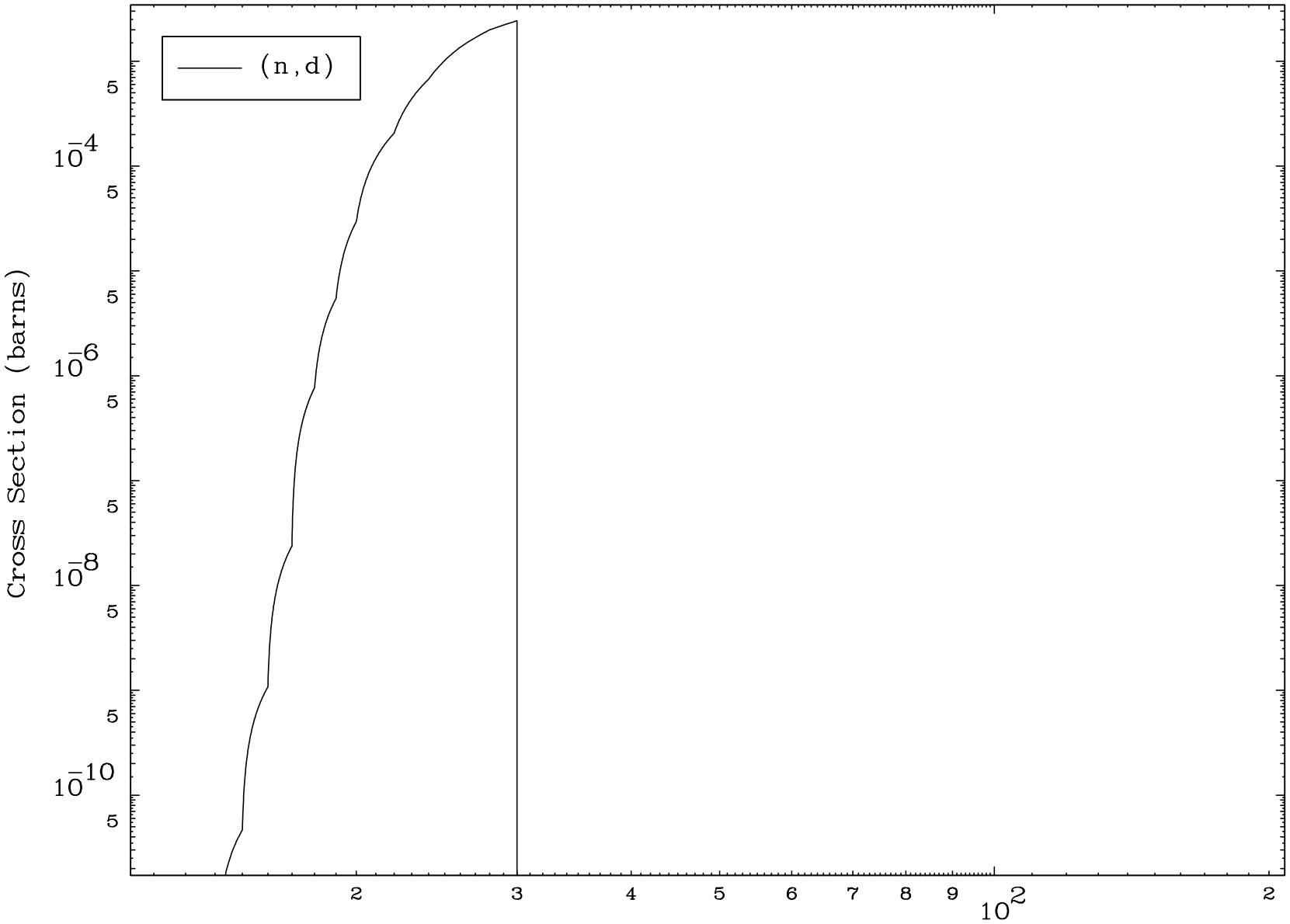

MAT 4046
α Neutron Absorption
0 Kelvin Cross Sections
40-Zr-97
(n,2n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
3
40-Zr-97

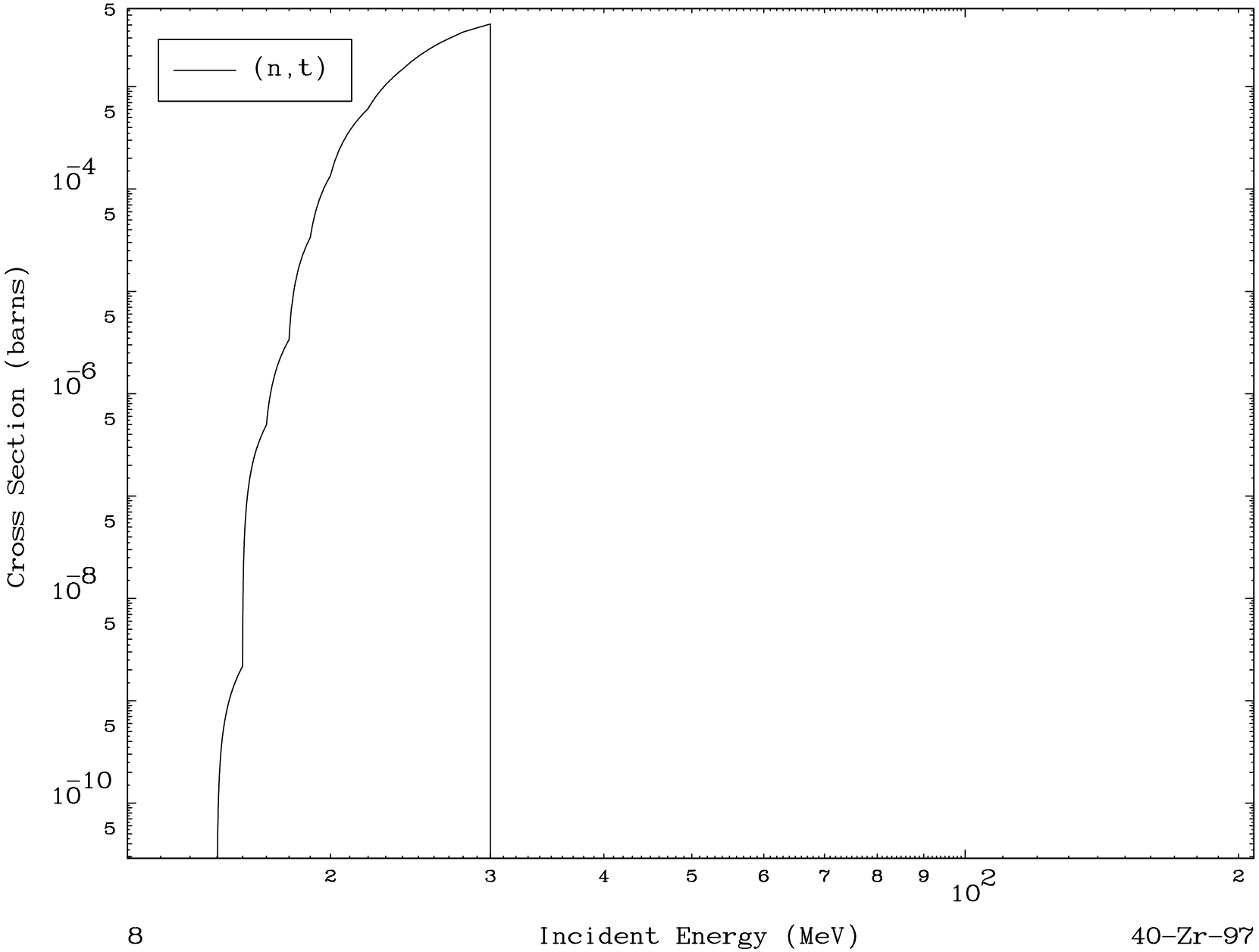

MAT 4046
α Charged Particle
0 Kelvin Cross Sections
40-Zr-97
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
4
40-Zr-97

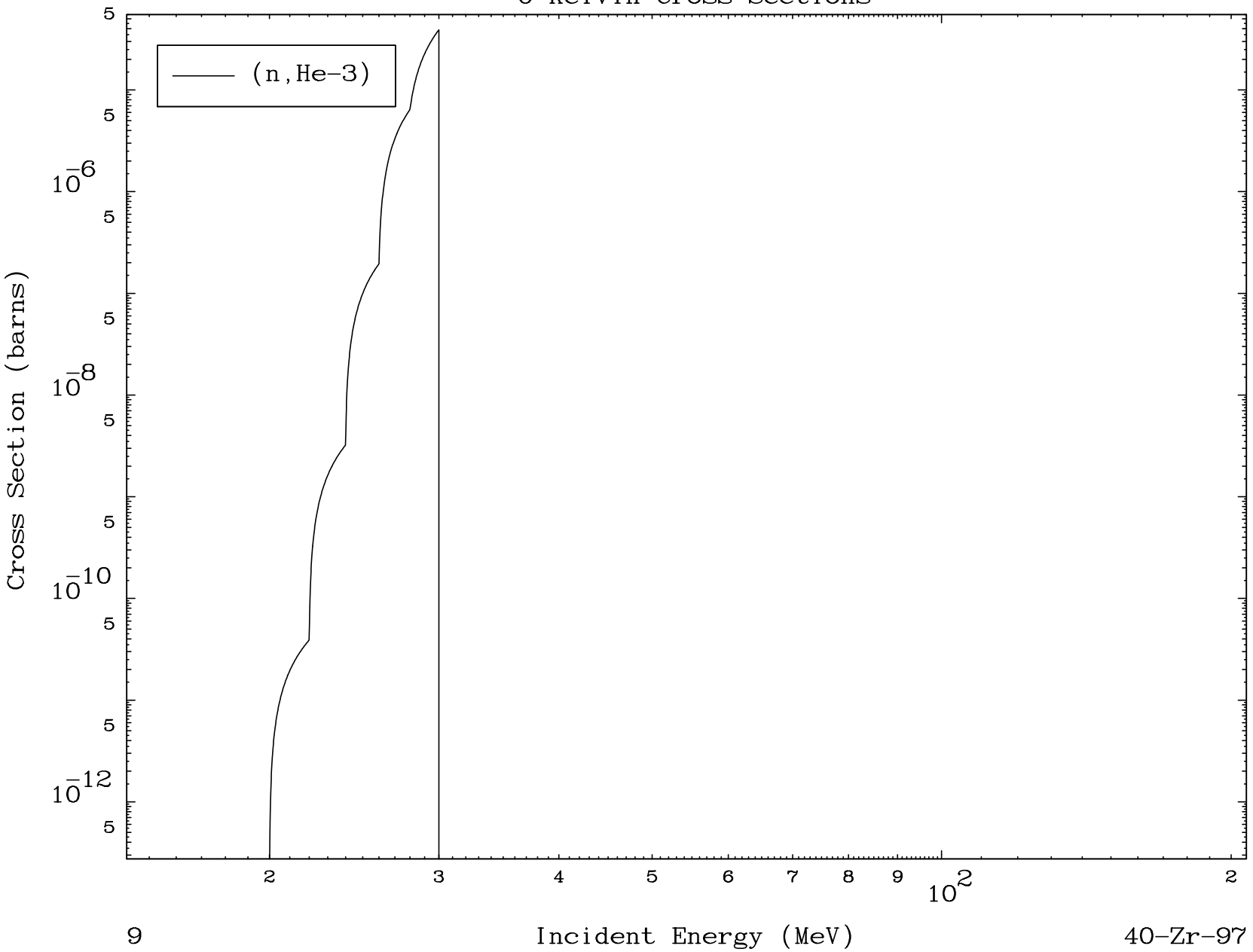

MAT 4046
α Charged Particle
0 Kelvin Cross Sections
40-Zr-97
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
10 1
2
4
6
8
10 2
2
5
Incident Energy (MeV)
40-Zr-97

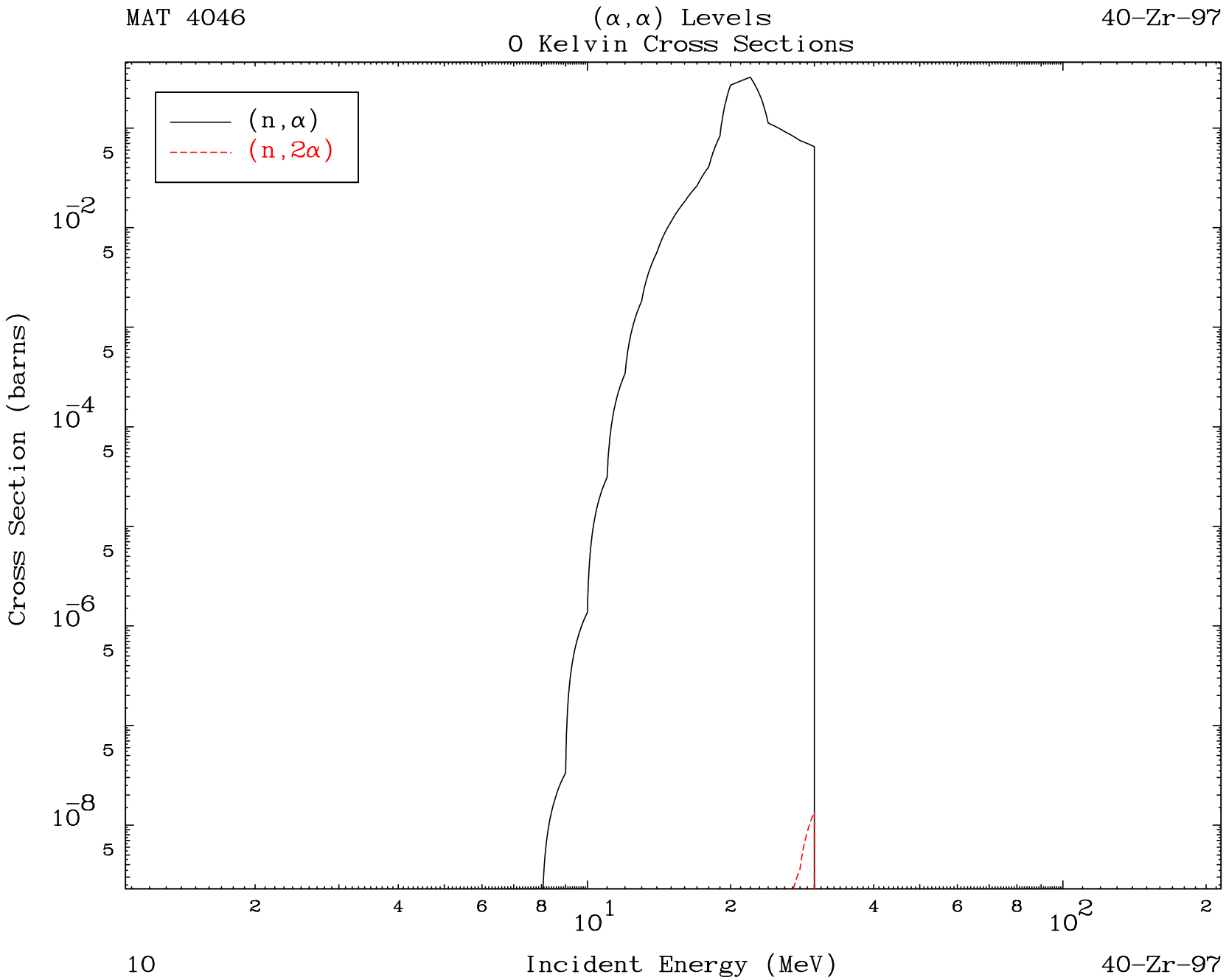

MAT 4046
(α,p) Levels
40-Zr-97
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
40-Zr-97
6

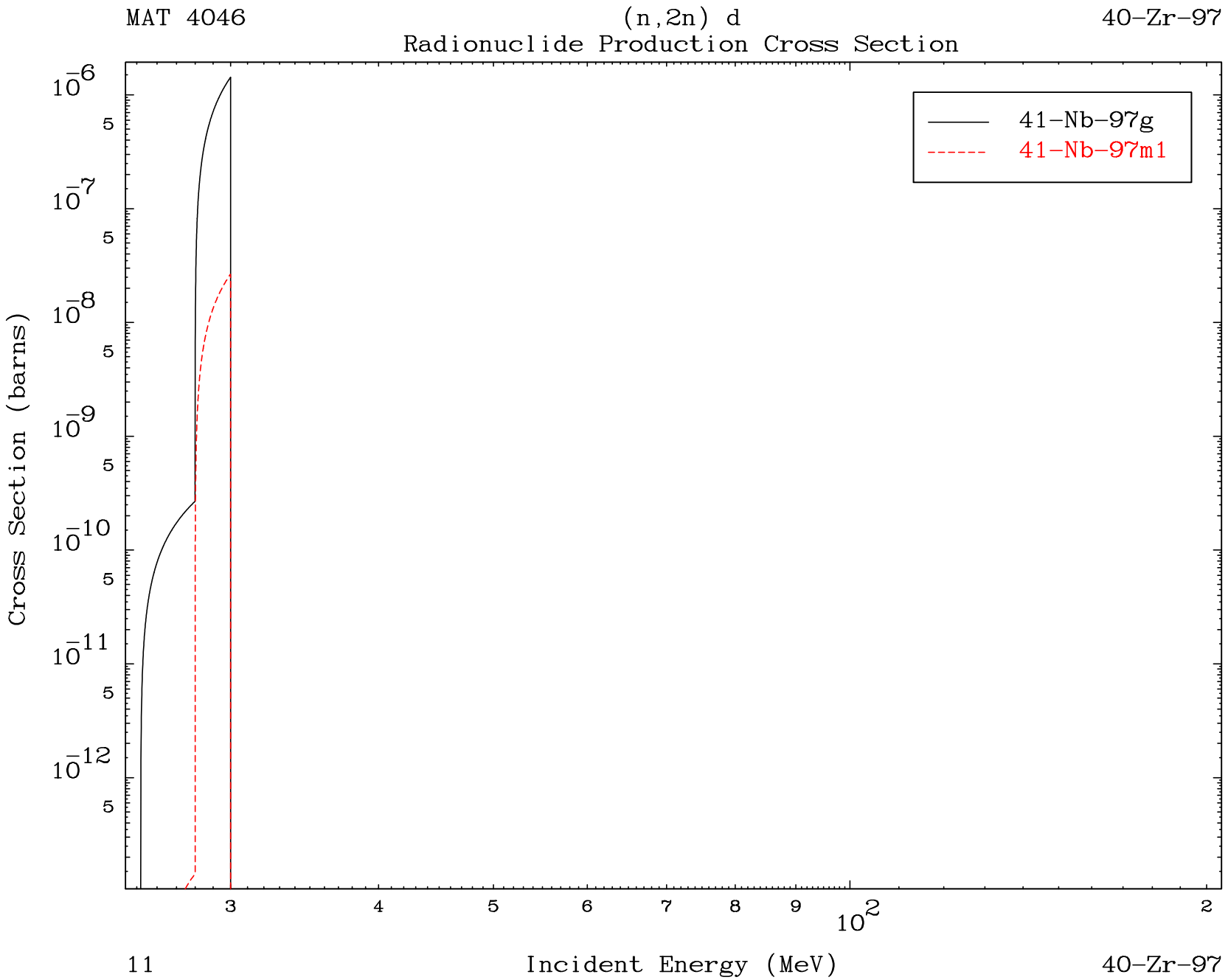
0 Kelvin Cross Sections

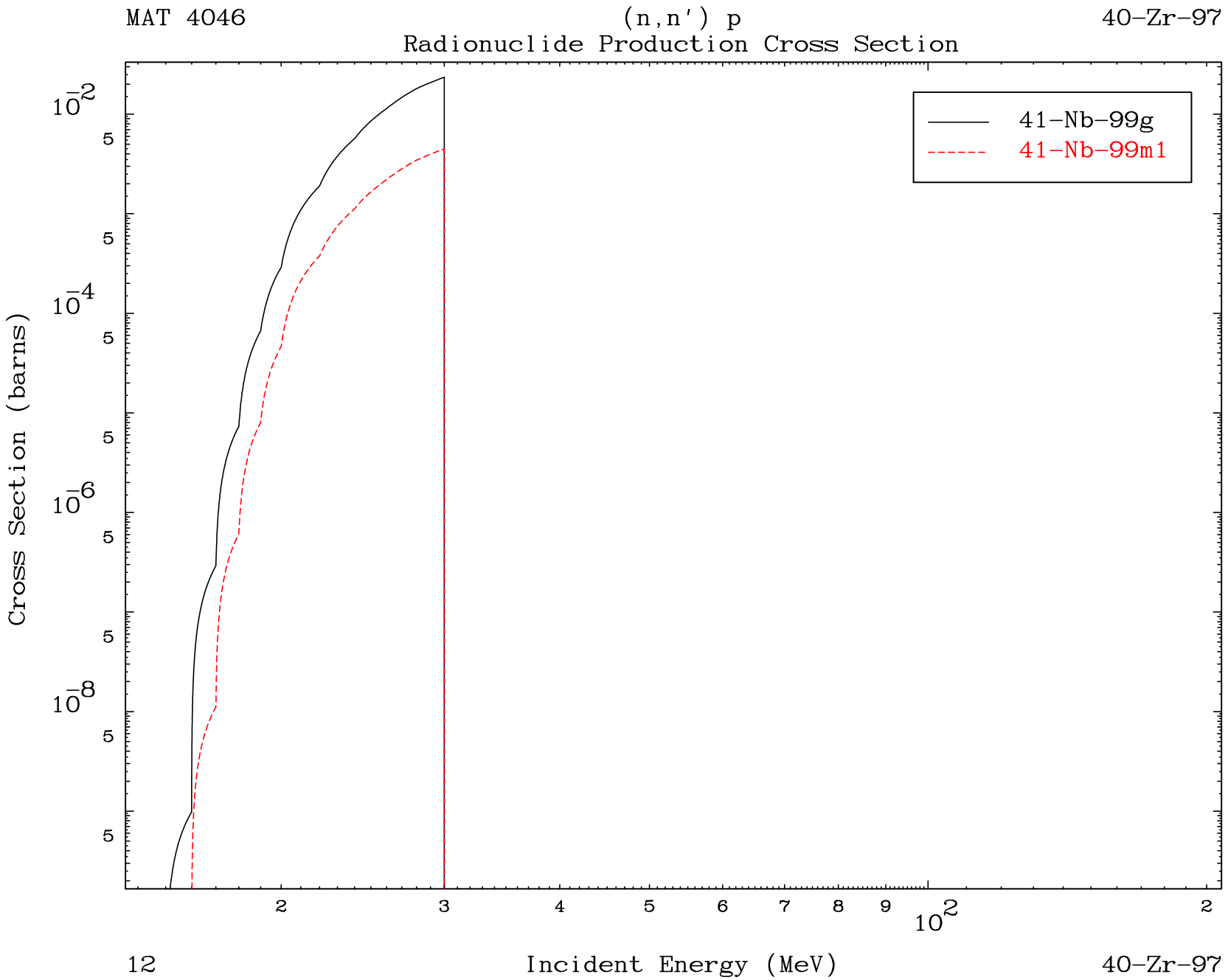


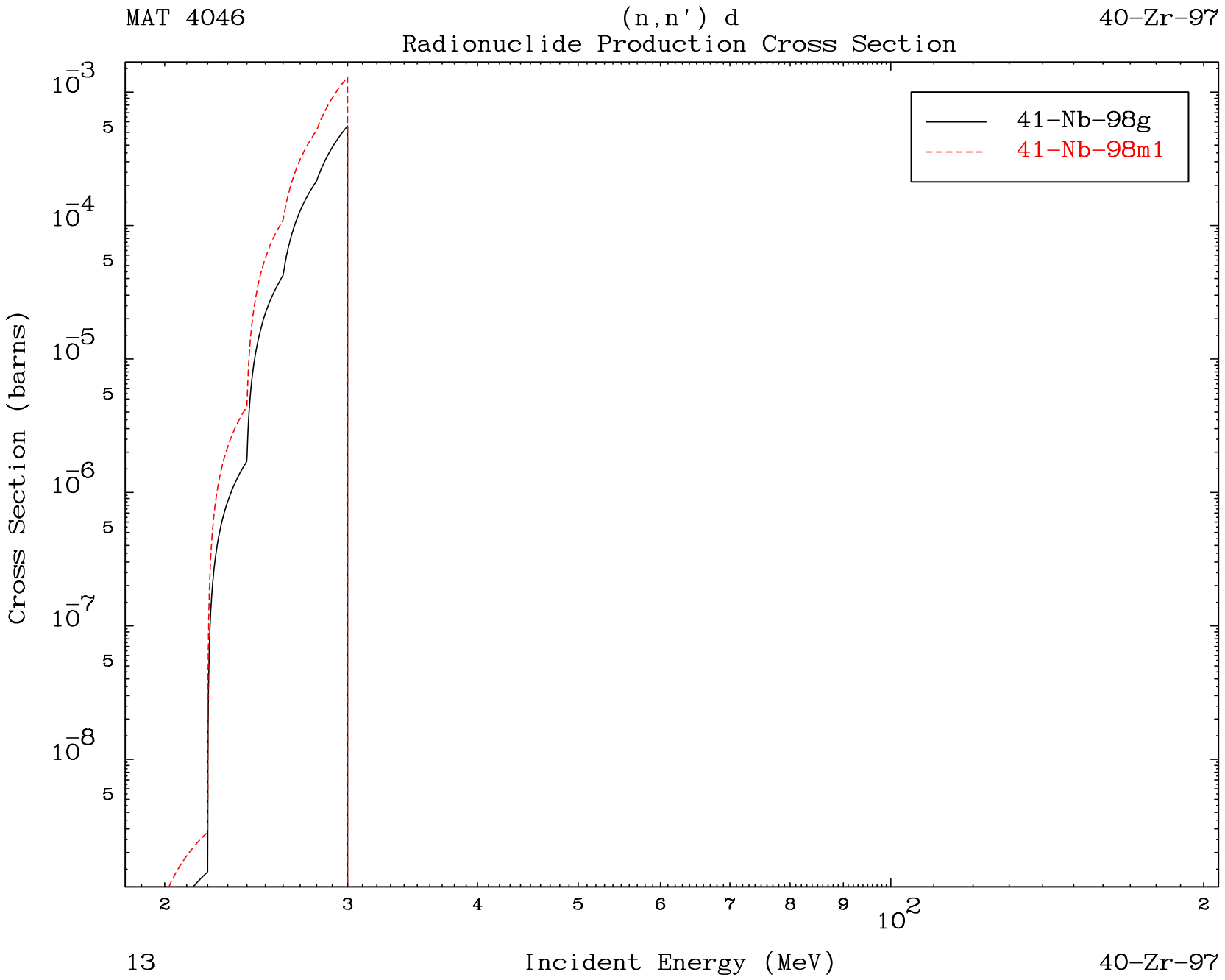

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

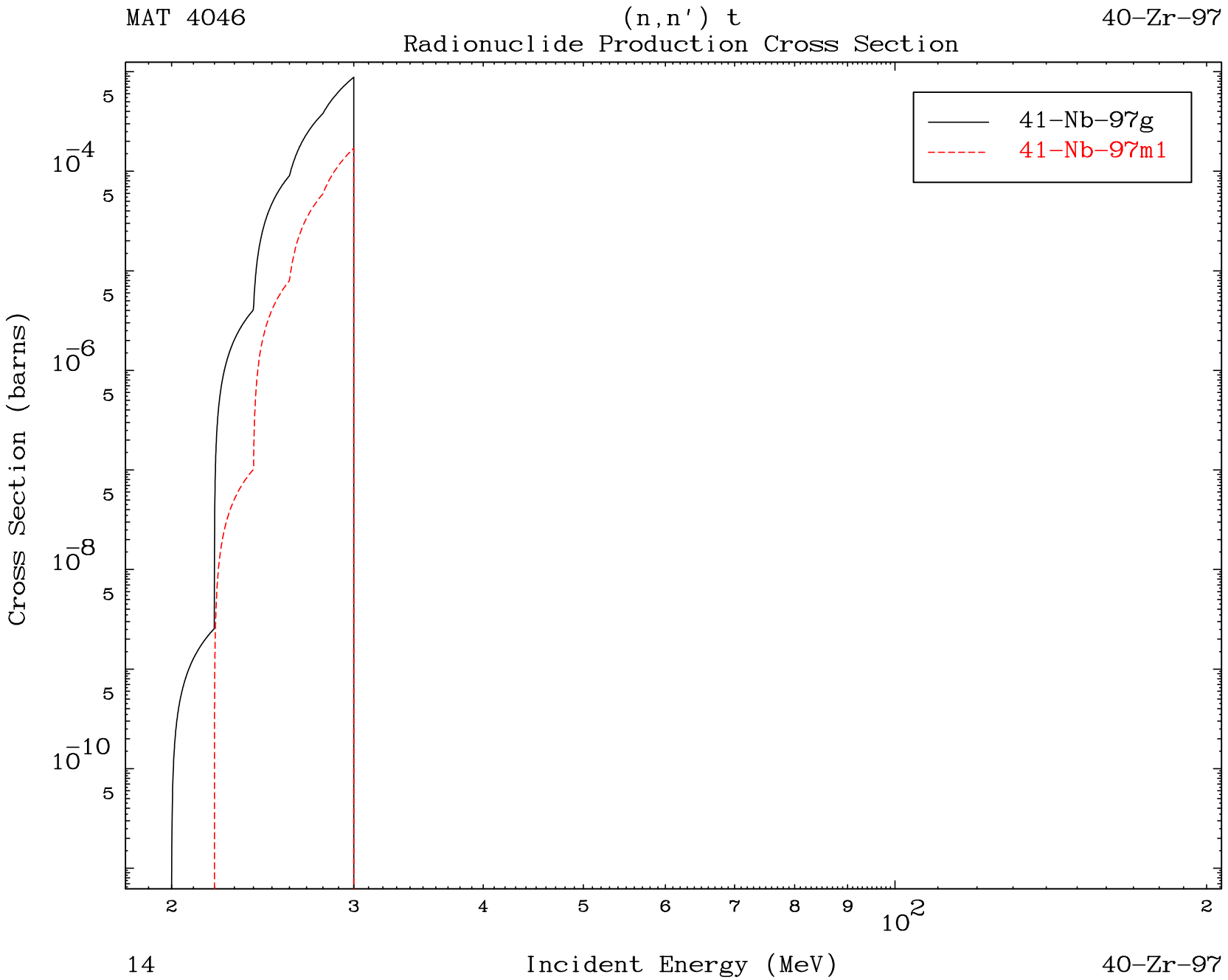

0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

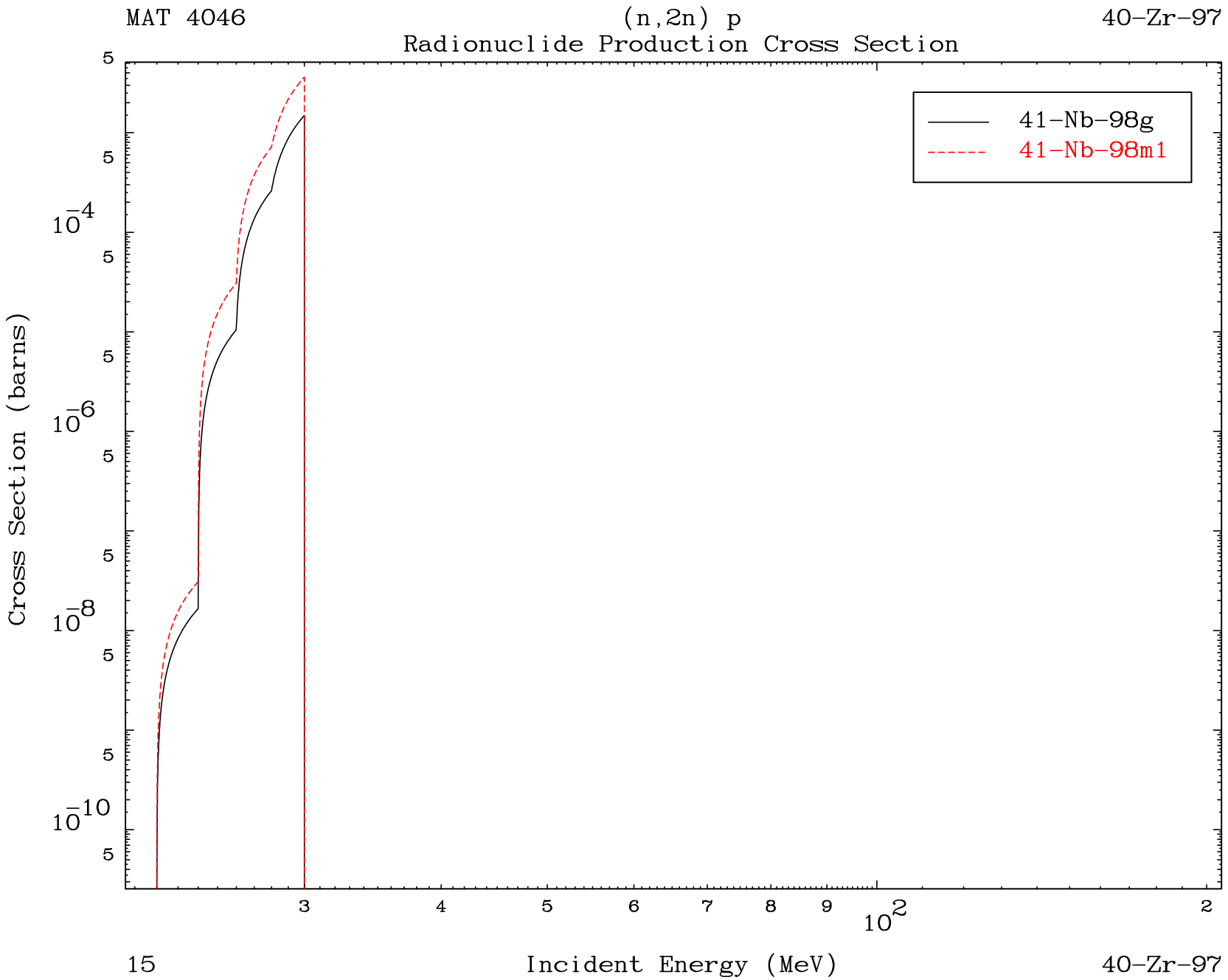

MAT 4046
(α,α) Levels
40-Zr-97
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^1
10^2
10
Incident Energy (MeV)
40-Zr-97

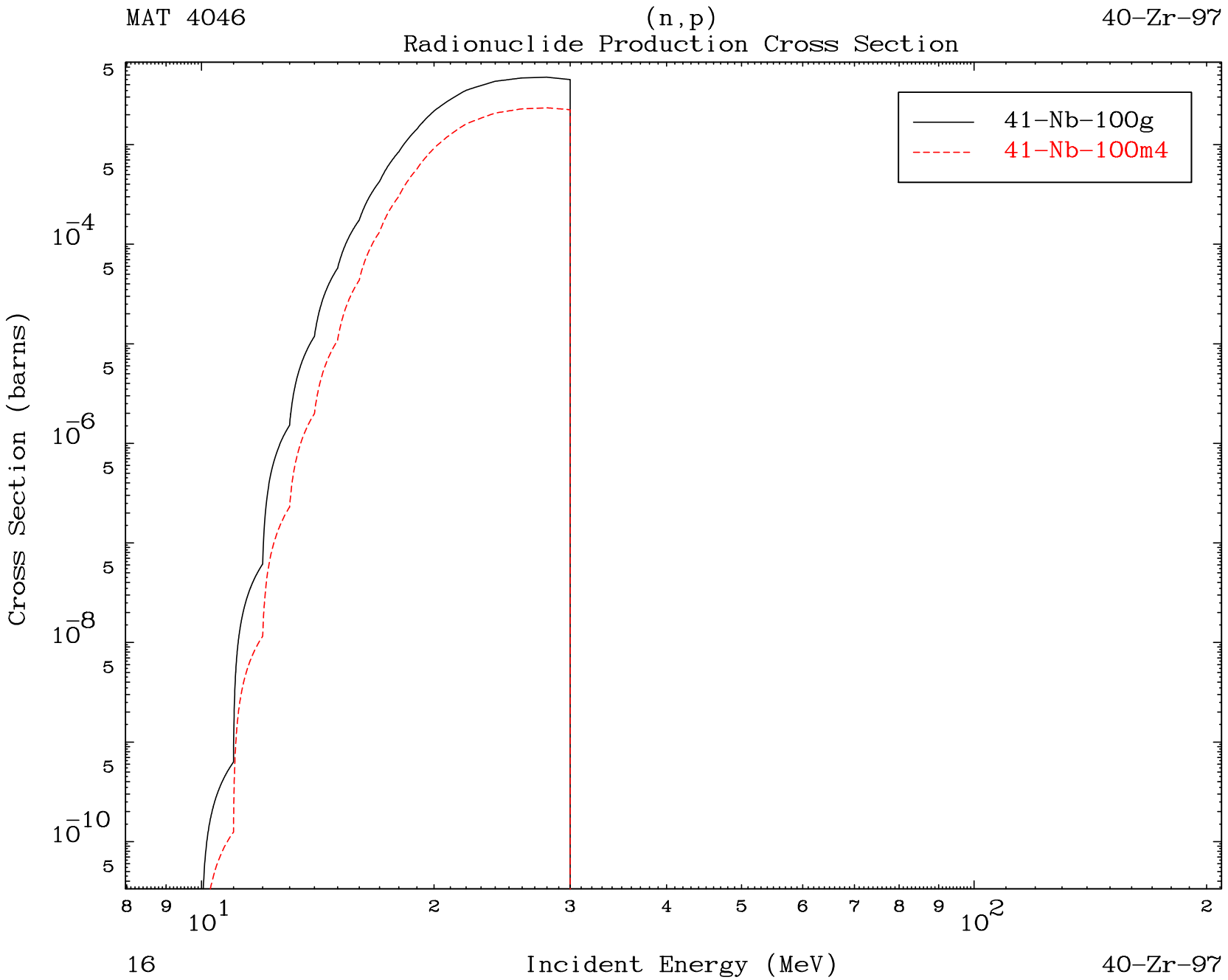

MAT 4046
(n,2n) d
40-Zr-97
Radionuclide Production Cross Section
41-Nb-97g
41-Nb-97m1
Cross Section (barns)
Incident Energy (MeV)
11
40-Zr-97

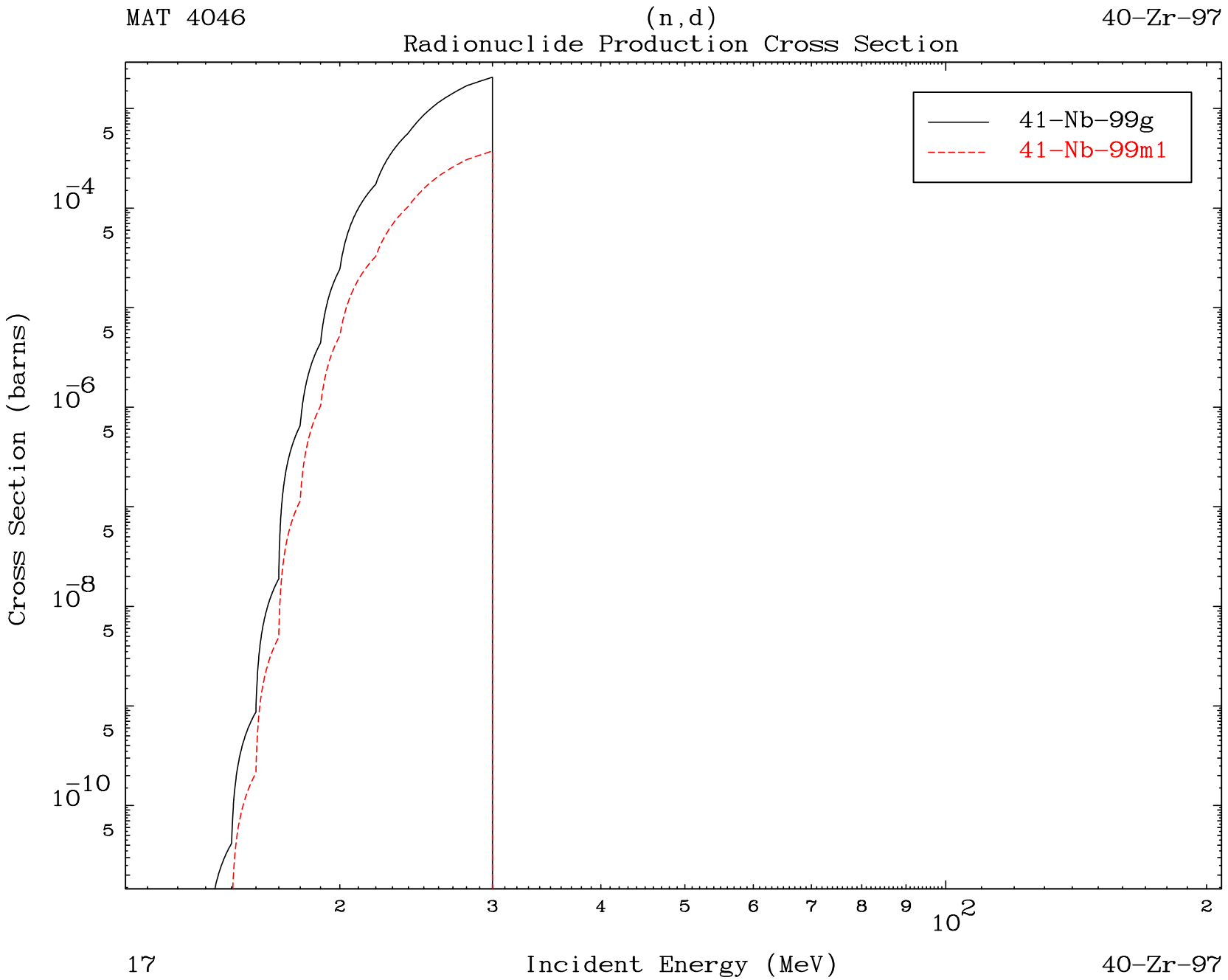

MAT 4046
(n,n') p
40-Zr-97
Radionuclide Production Cross Section
41-Nb-99g
41-Nb-99m1
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
40-Zr-97

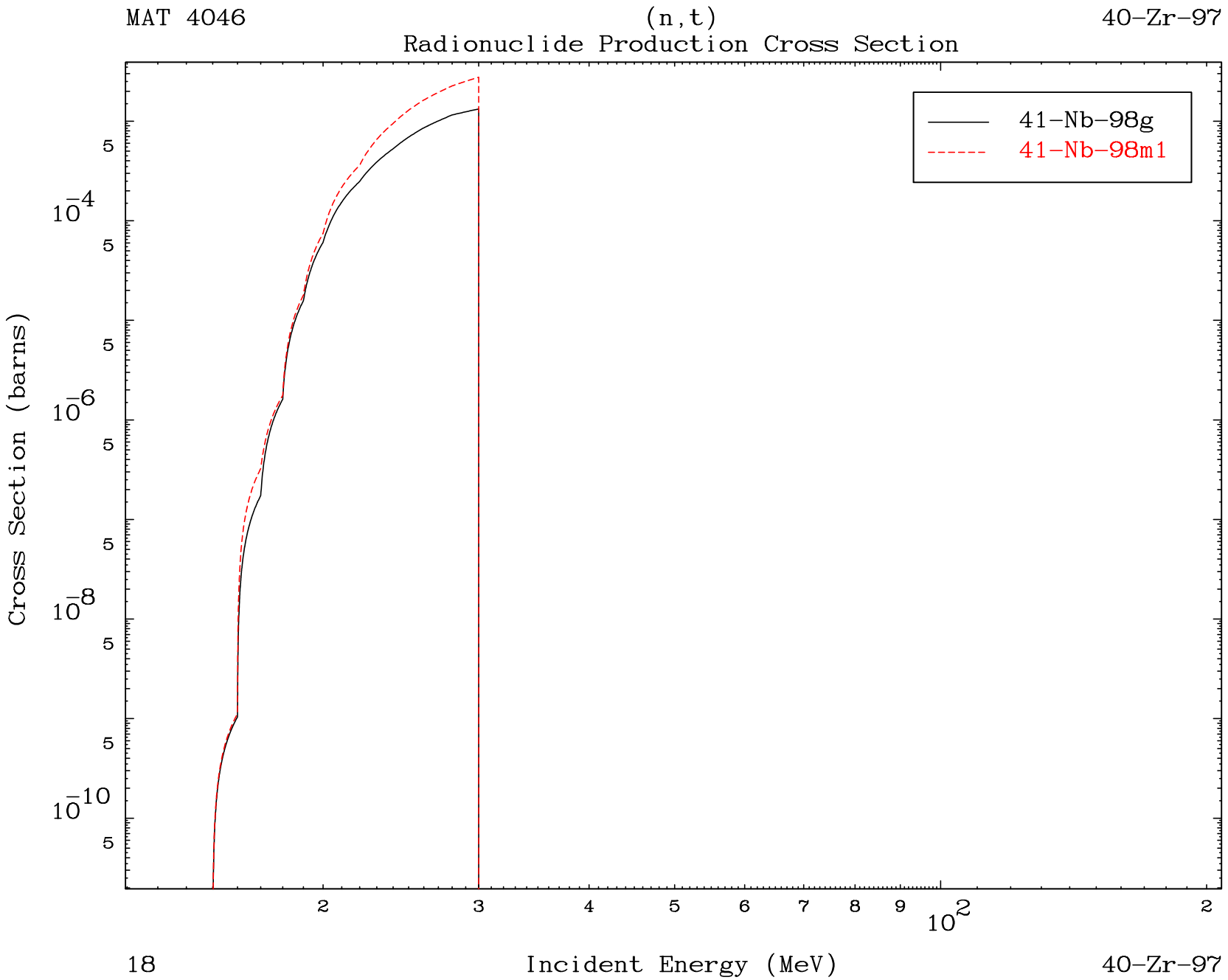

MAT 4046
(n,n') d
40-Zr-97
Radionuclide Production Cross Section
41-Nb-98g
41-Nb-98m1
Cross Section (barns)
10-3
10-4
10-5
10-6
10-7
10-8
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
13
40-Zr-97

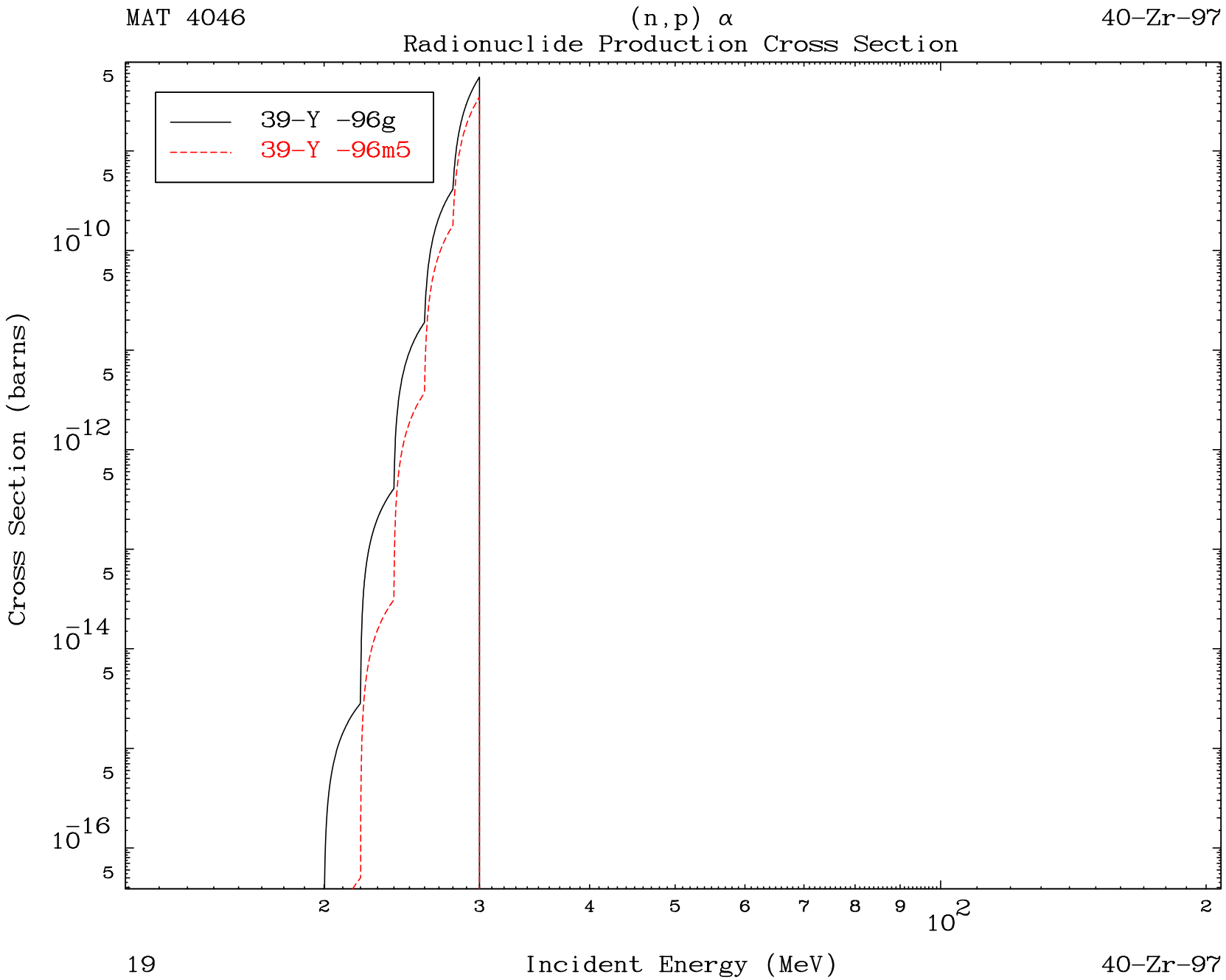

MAT 4046
(n,n') t
40-Zr-97
Radionuclide Production Cross Section
41-Nb-97g
41-Nb-97m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
14
40-Zr-97


MAT 4046
(n,2n) p
40-Zr-97
Radionuclide Production Cross Section
41-Nb-98g
41-Nb-98m1
Cross Section (barns)
Incident Energy (MeV)
15
40-Zr-97


MAT 4046
(n,p)
40-Zr-97
Radionuclide Production Cross Section
41-Nb-100g
41-Nb-100m4
Cross Section (barns)
Incident Energy (MeV)
16
40-Zr-97


MAT 4046
(n,d)
40-Zr-97
Radionuclide Production Cross Section
41-Nb-99g
41-Nb-99m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
40-Zr-97


MAT 4046
(n,t)
40-Zr-97
Radionuclide Production Cross Section
41-Nb-98g
41-Nb-98m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
18
40-Zr-97


MAT 4046
(n,p) α
40-Zr-97
Radionuclide Production Cross Section
39-Y -96g
39-Y -96m5
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
40-Zr-97