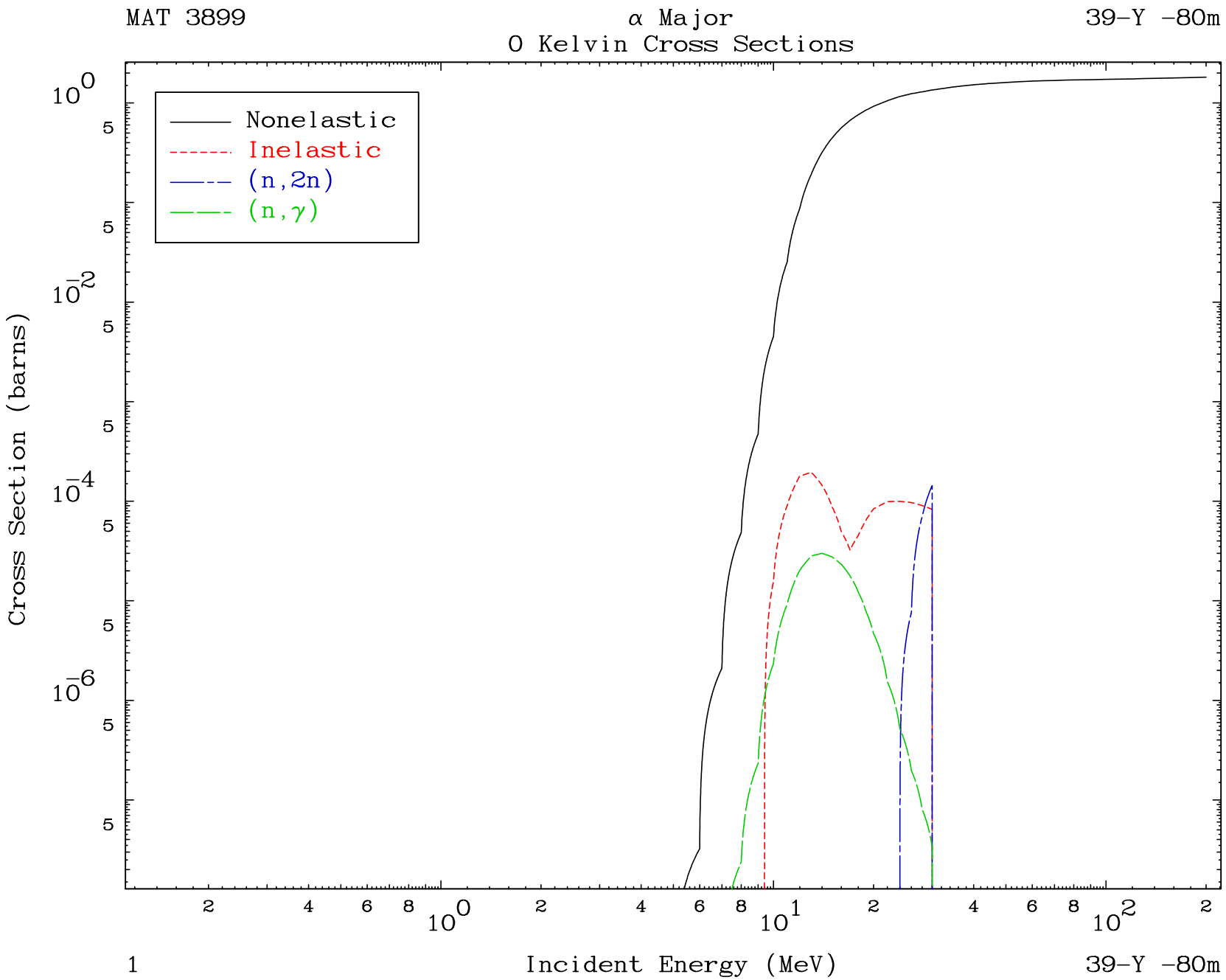
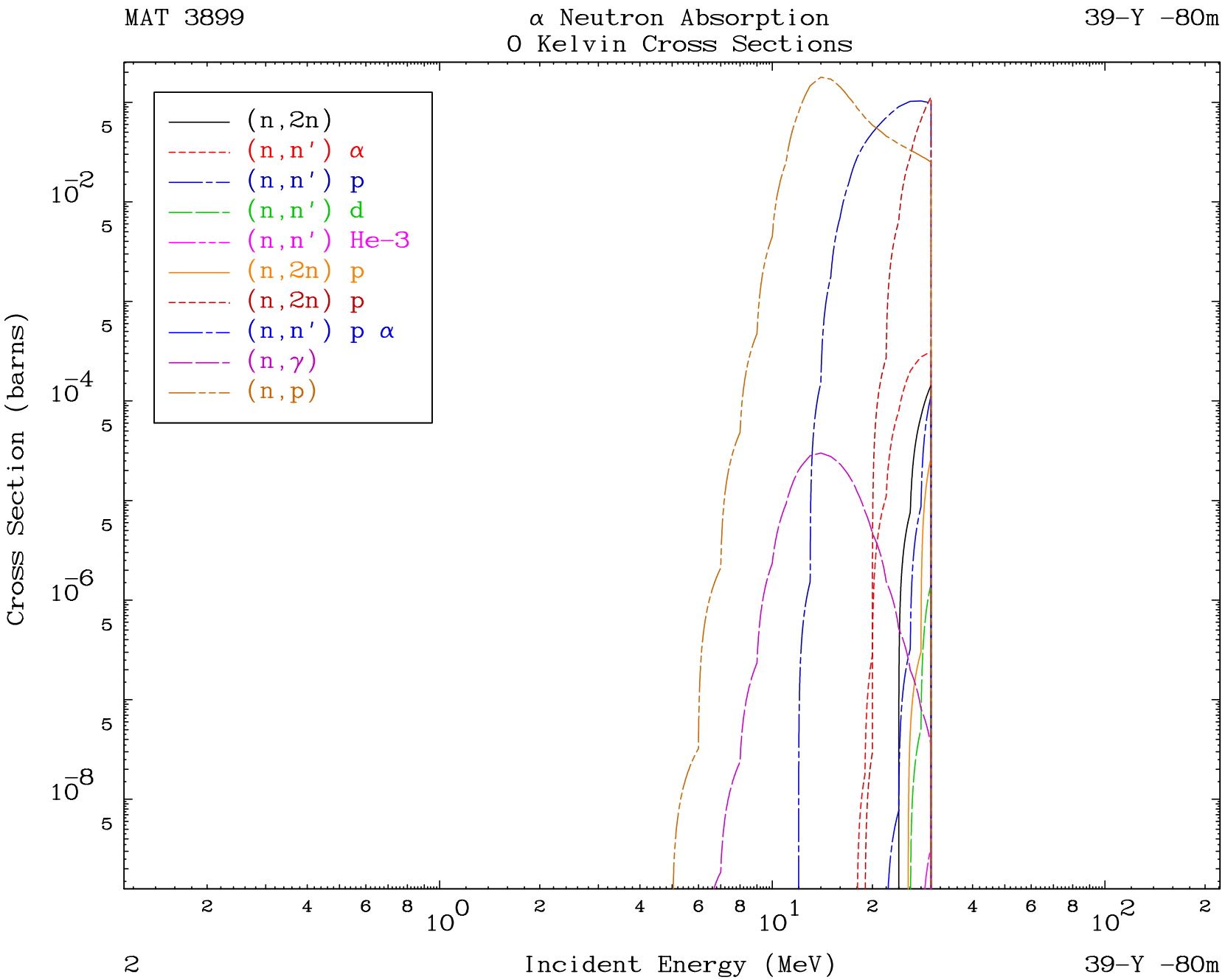
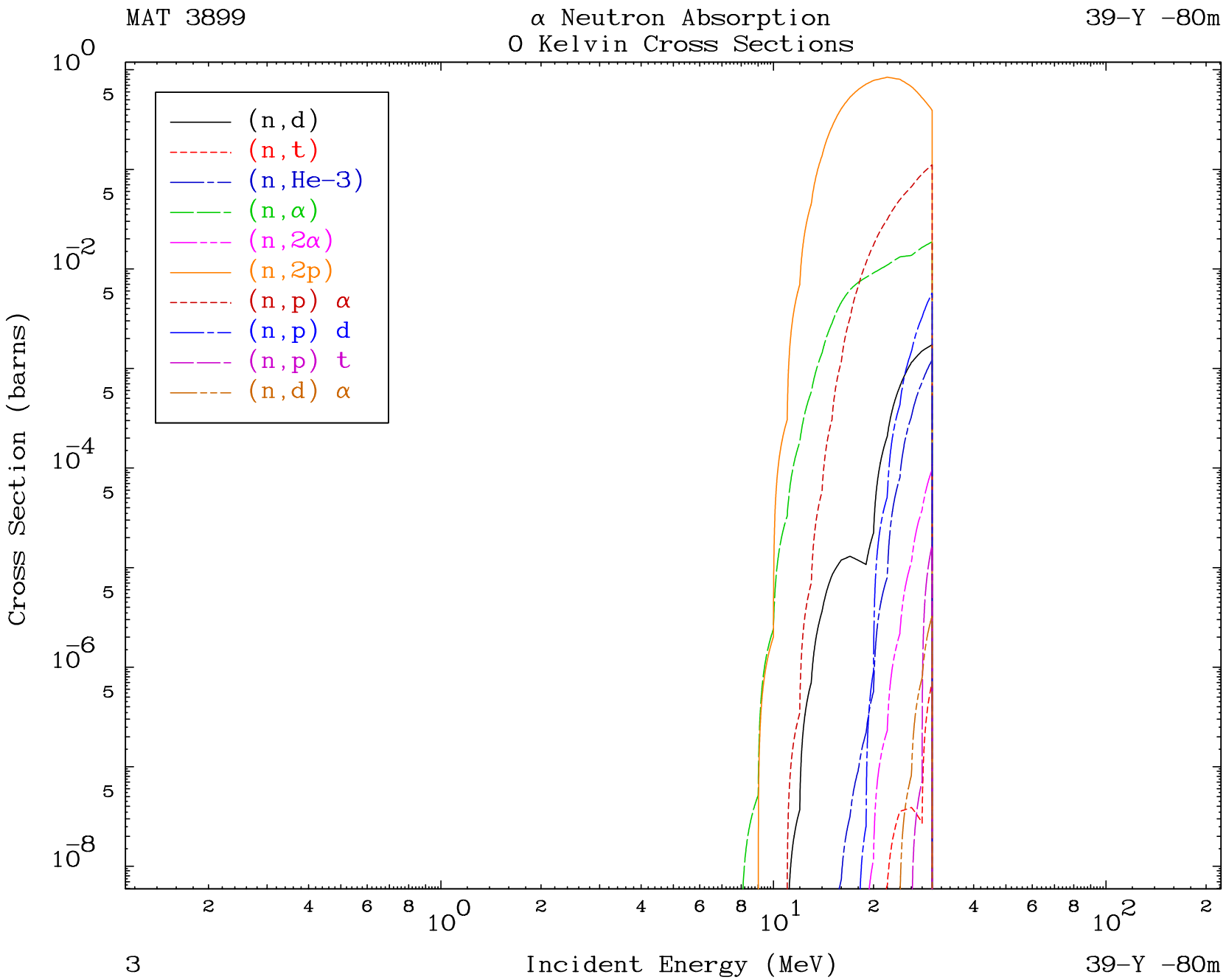
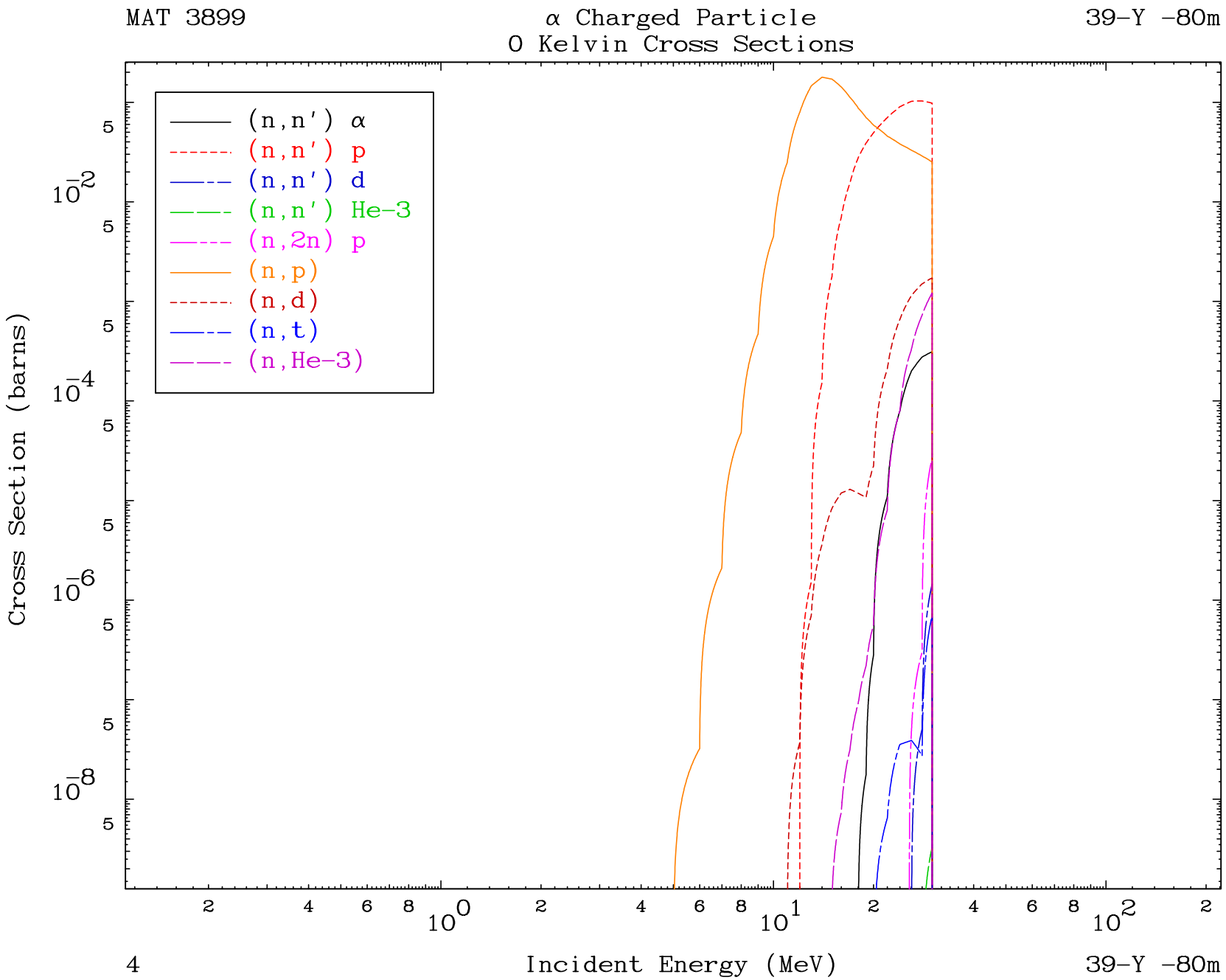
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

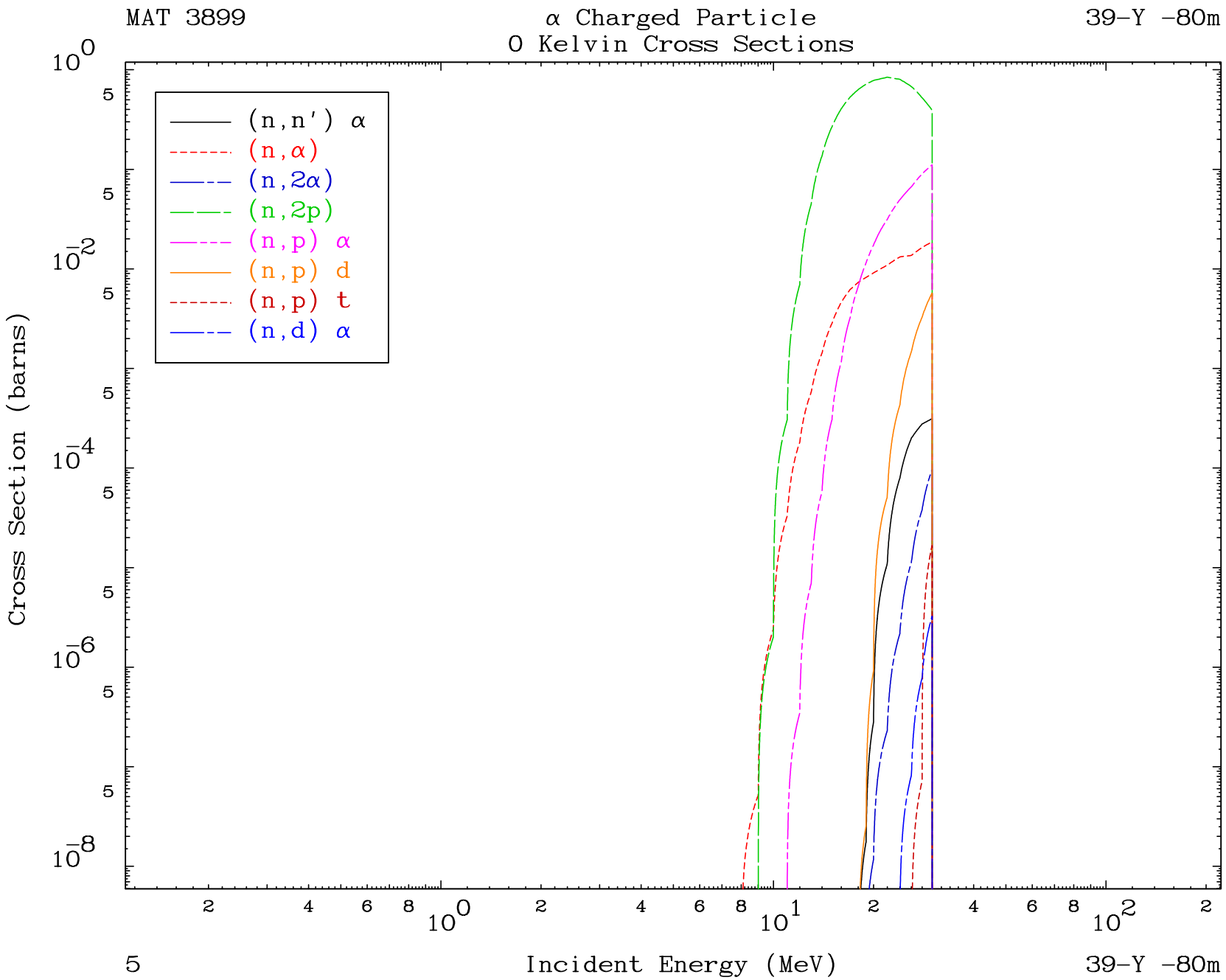
Press Mouse Button to Start

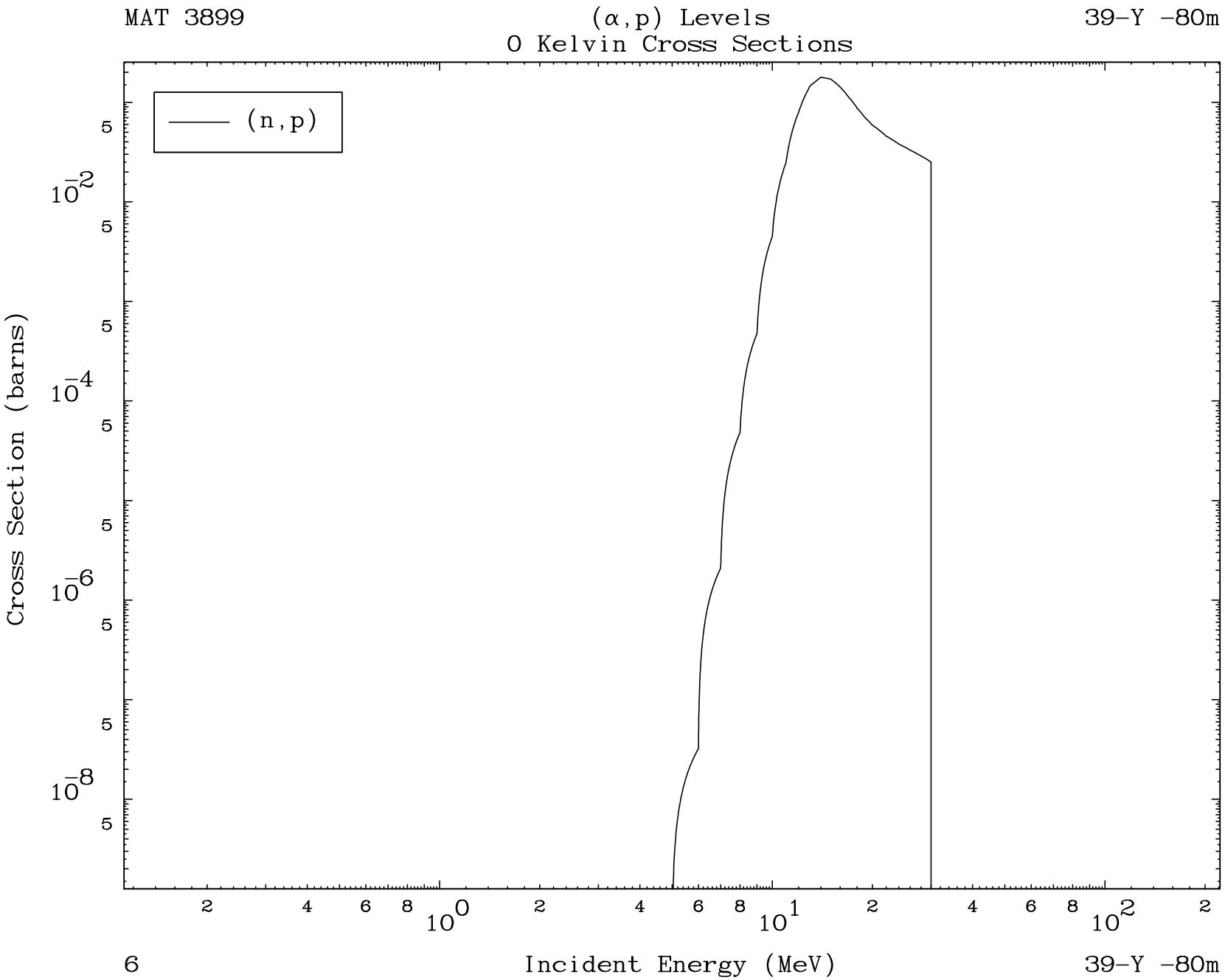

MAT 3899
α Major
39-Y -80m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
39-Y -80m
1

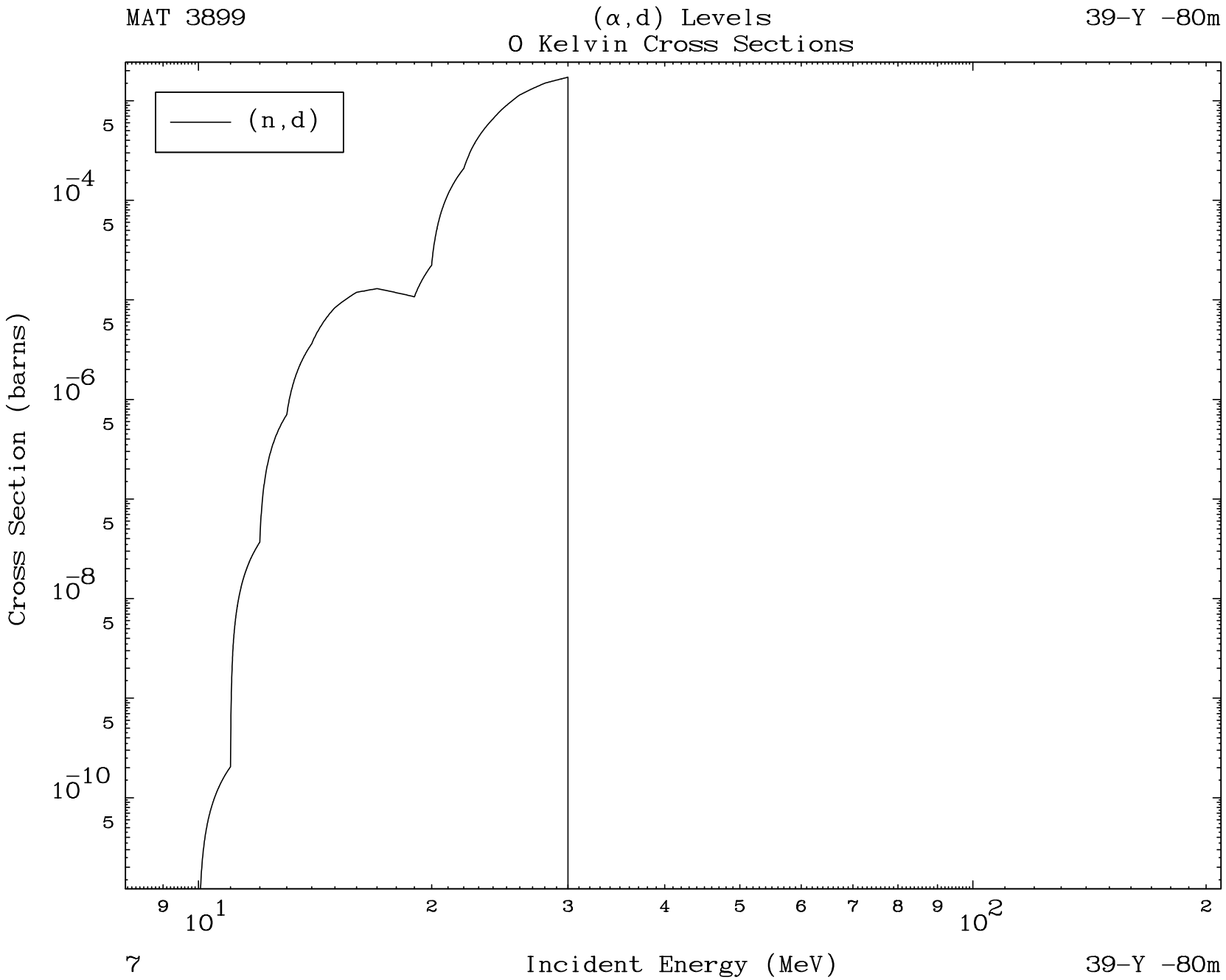

MAT 3899
α Neutron Absorption
0 Kelvin Cross Sections
39-Y -80m
(n,2n)
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
39-Y -80m
2

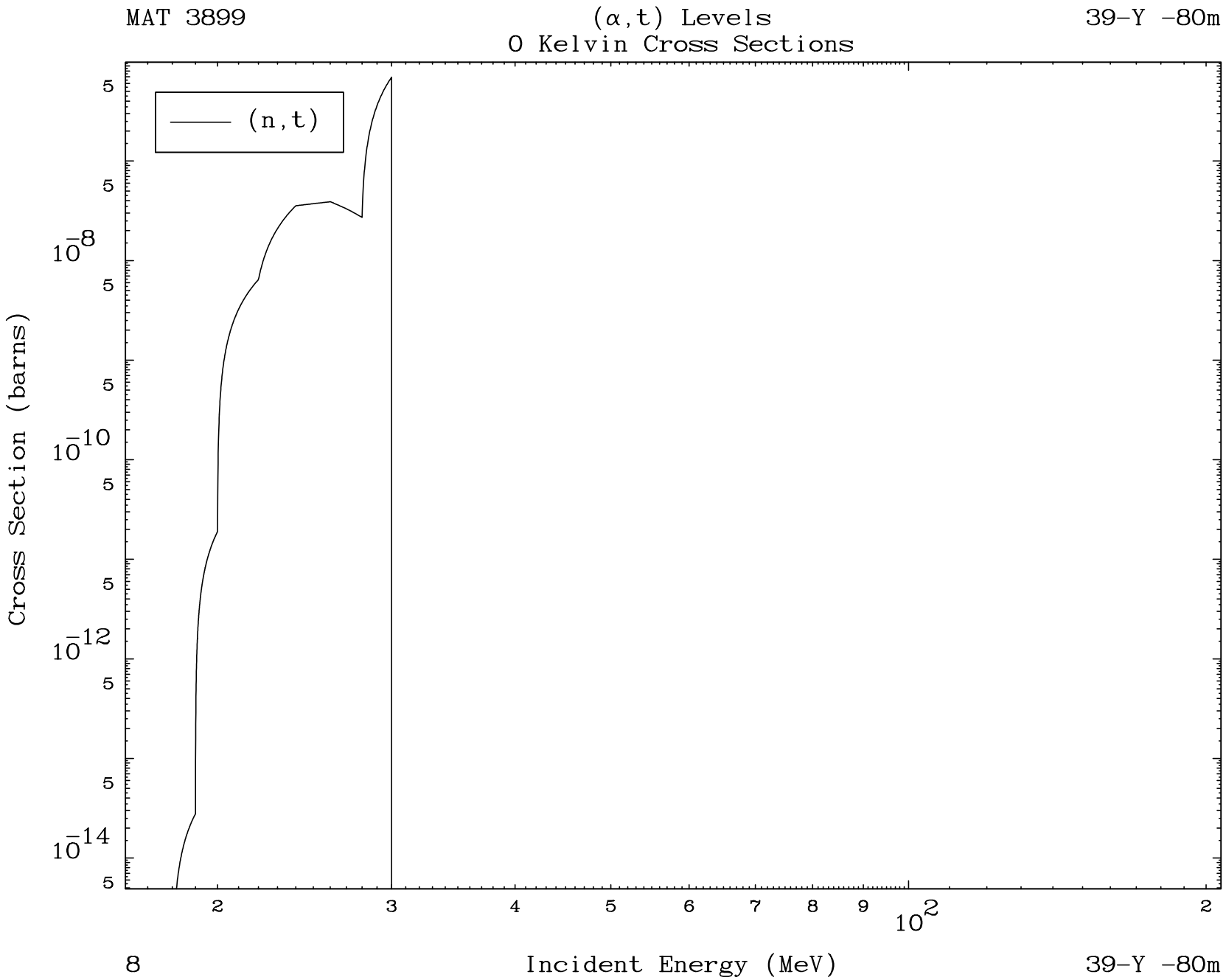

MAT 3899
α Neutron Absorption
0 Kelvin Cross Sections
39-Y -80m
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
39-Y -80m

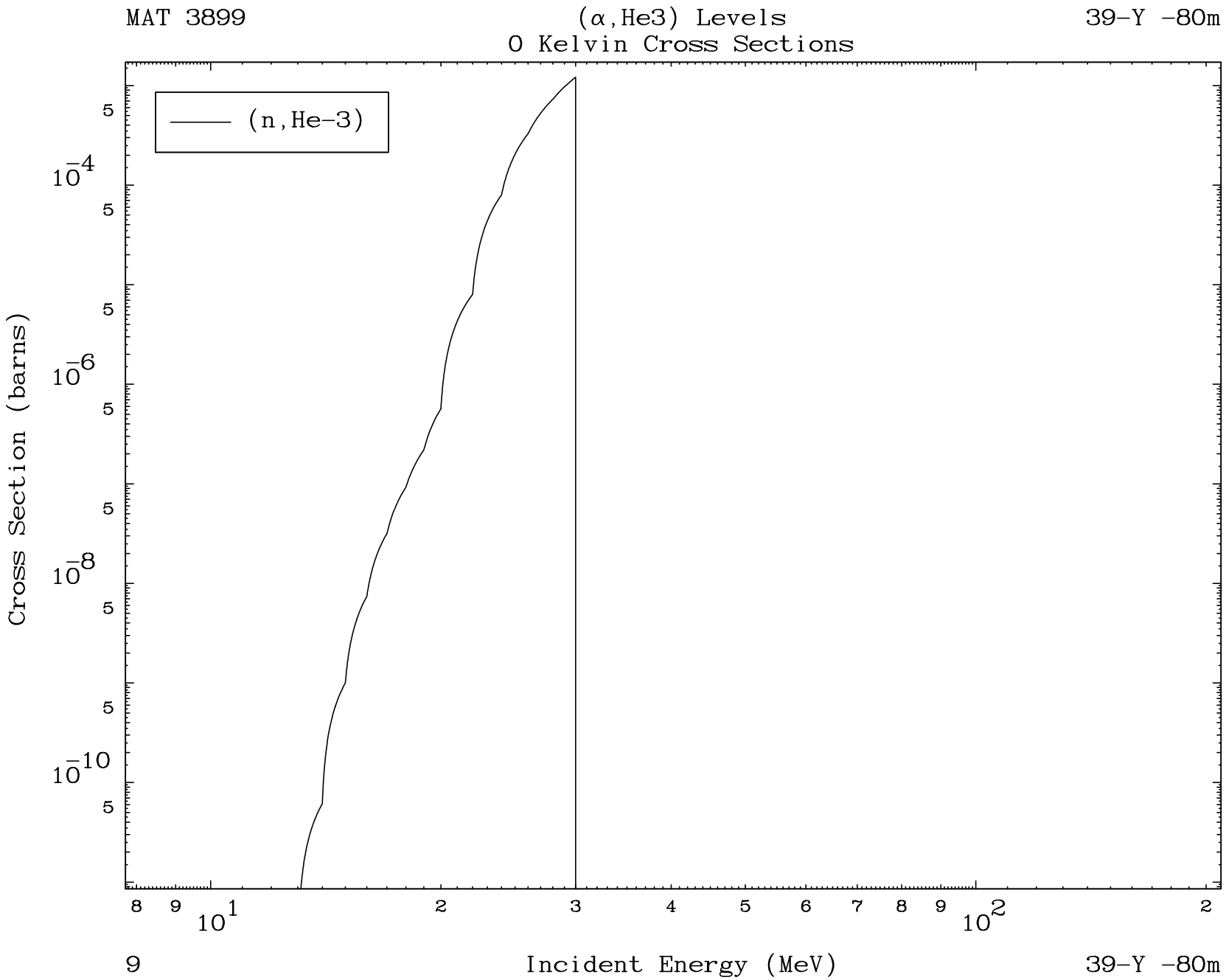

MAT 3899
α Charged Particle
0 Kelvin Cross Sections
39-Y -80m
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
4
39-Y -80m

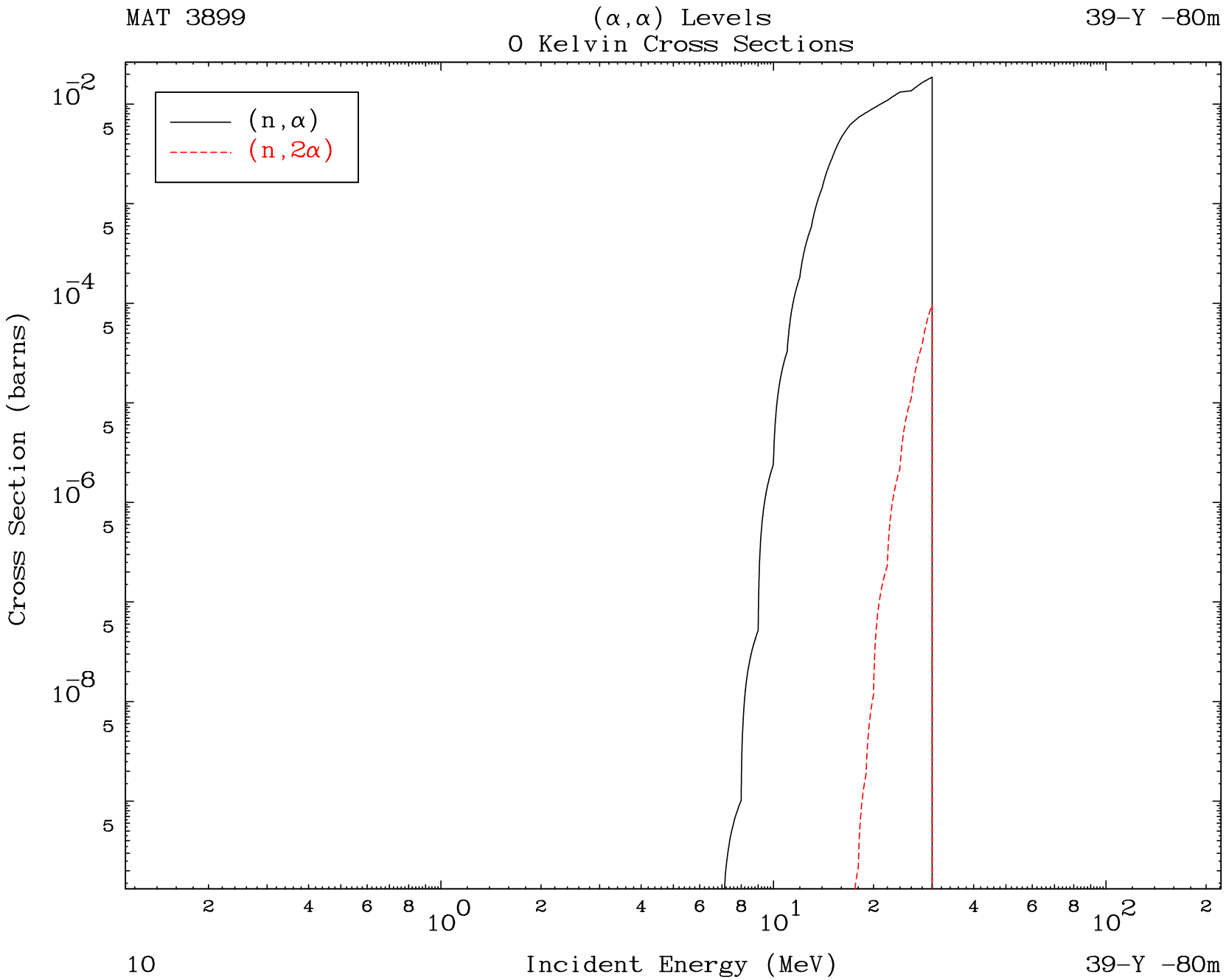

MAT 3899
α Charged Particle
0 Kelvin Cross Sections
39-Y -80m
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
39-Y -80m

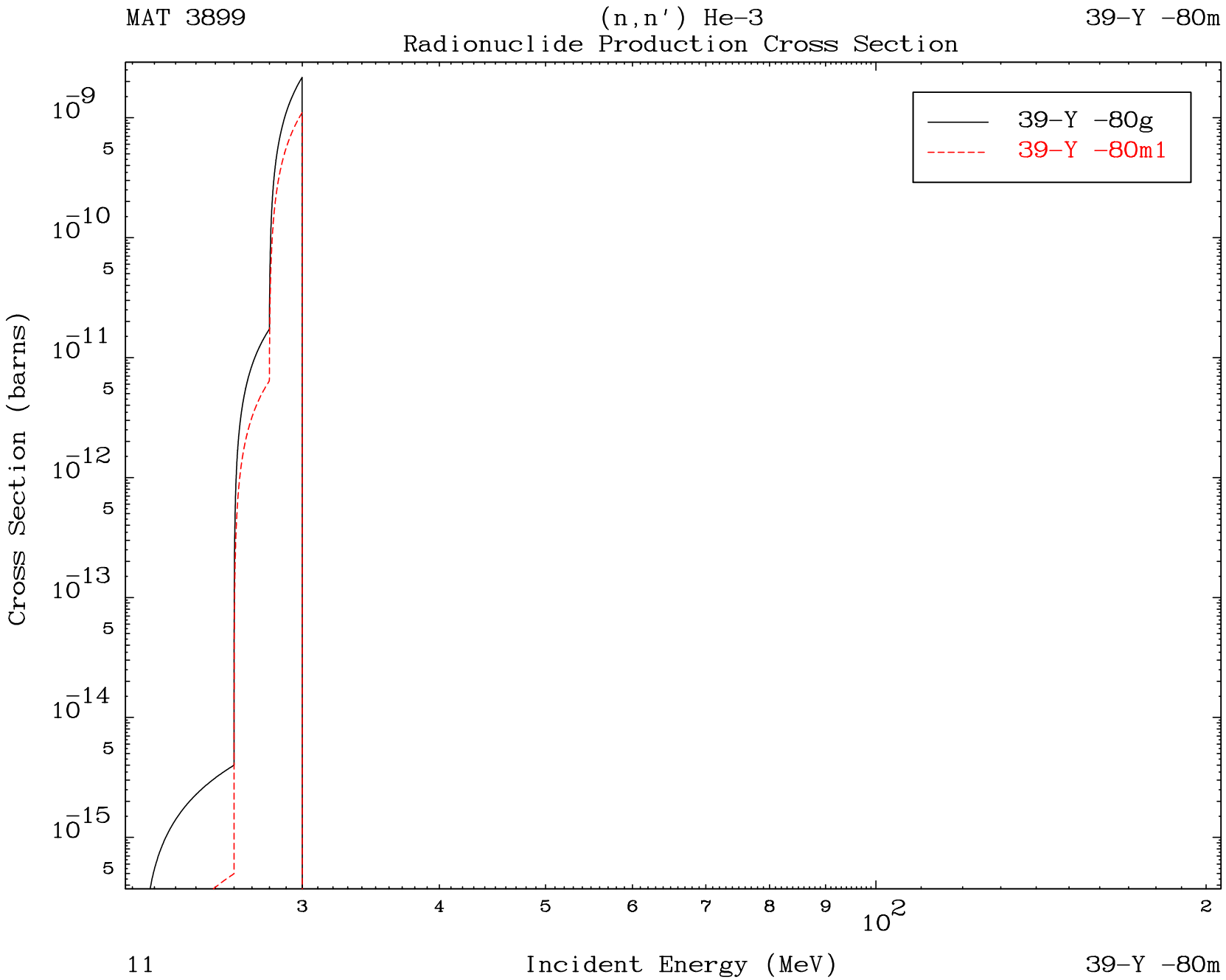

MAT 3899
(α,p) Levels
39-Y -80m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
6
39-Y -80m

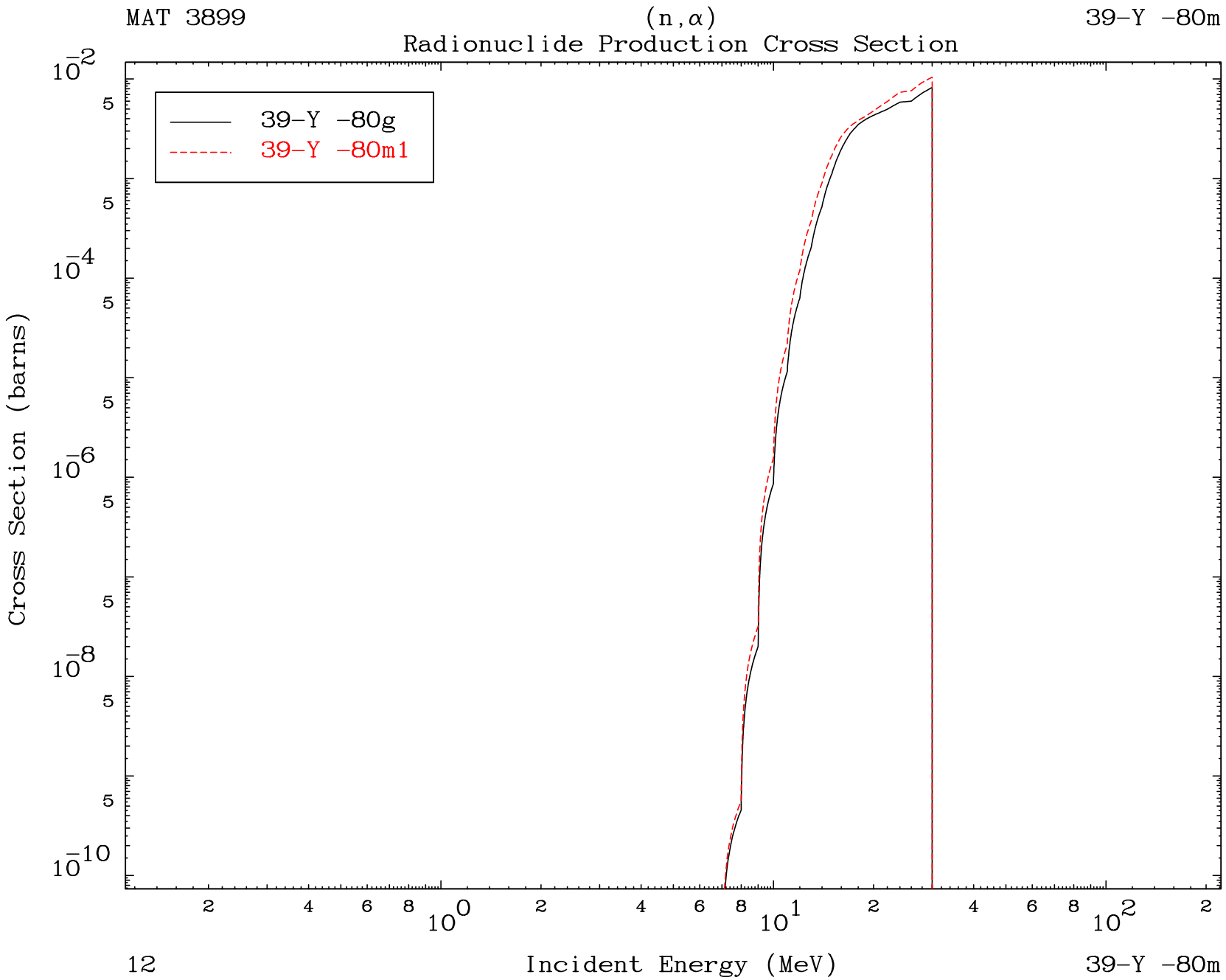

MAT 3899
(α,d) Levels
39-Y -80m
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10^1
10^2
7
39-Y -80m

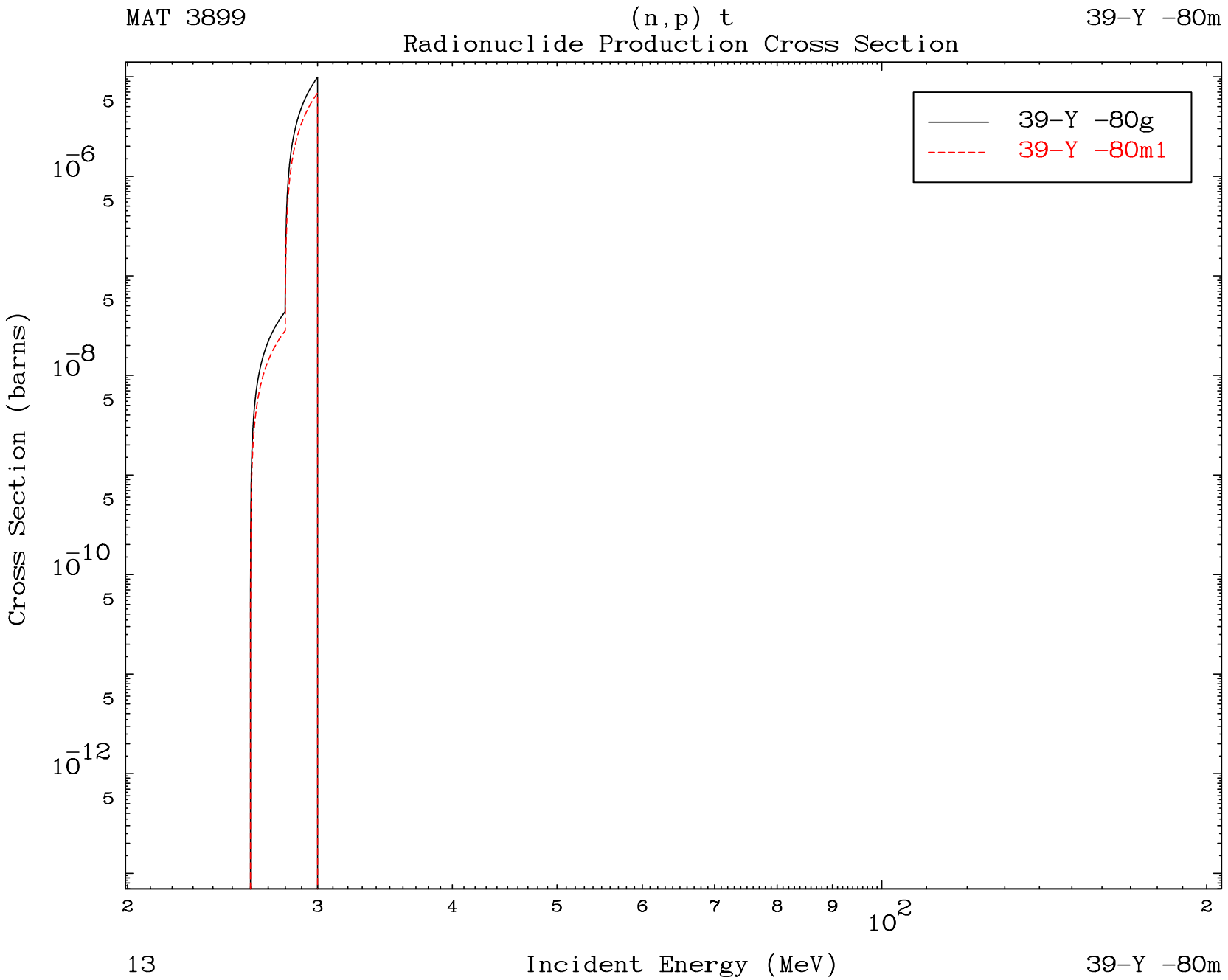

MAT 3899
(α,t) Levels
39-Y -80m
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
8
39-Y -80m


MAT 3899
(α,He3) Levels
39-Y -80m
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10 1
10 2
39-Y -80m


MAT 3899
(α,α) Levels
39-Y -80m
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
39-Y -80m


MAT 3899
(n,n') He-3
39-Y -80m
Radionuclide Production Cross Section
39-Y -80g
39-Y -80m1
Cross Section (barns)
Incident Energy (MeV)
11
39-Y -80m


MAT 3899
(n,α)
39-Y -80m
Radionuclide Production Cross Section
39-Y -80g
39-Y -80m1
Cross Section (barns)
Incident Energy (MeV)
12
39-Y -80m


MAT 3899
(n,p) t
39-Y -80m
Radionuclide Production Cross Section
39-Y -80g
39-Y -80m1
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
39-Y -80m