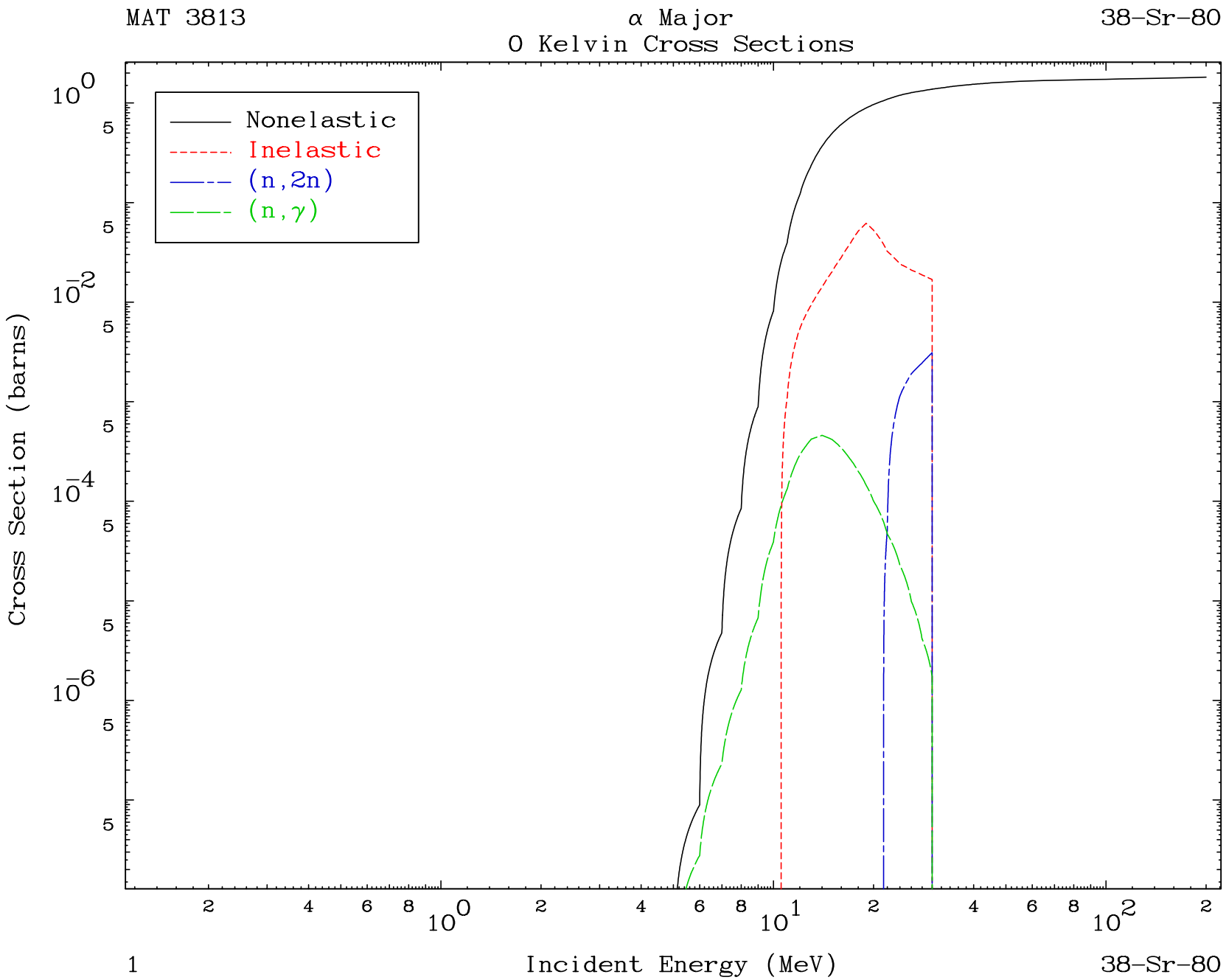
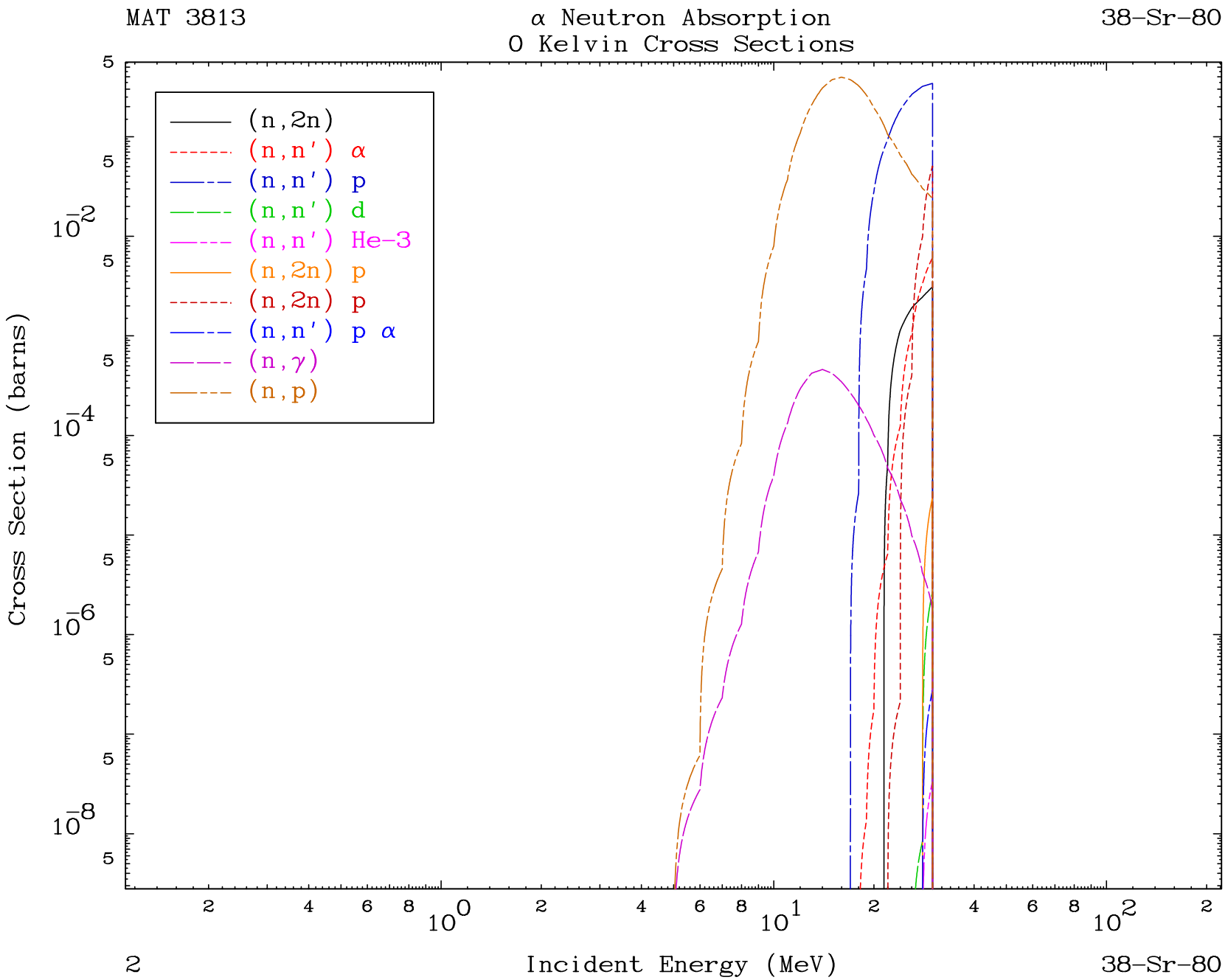
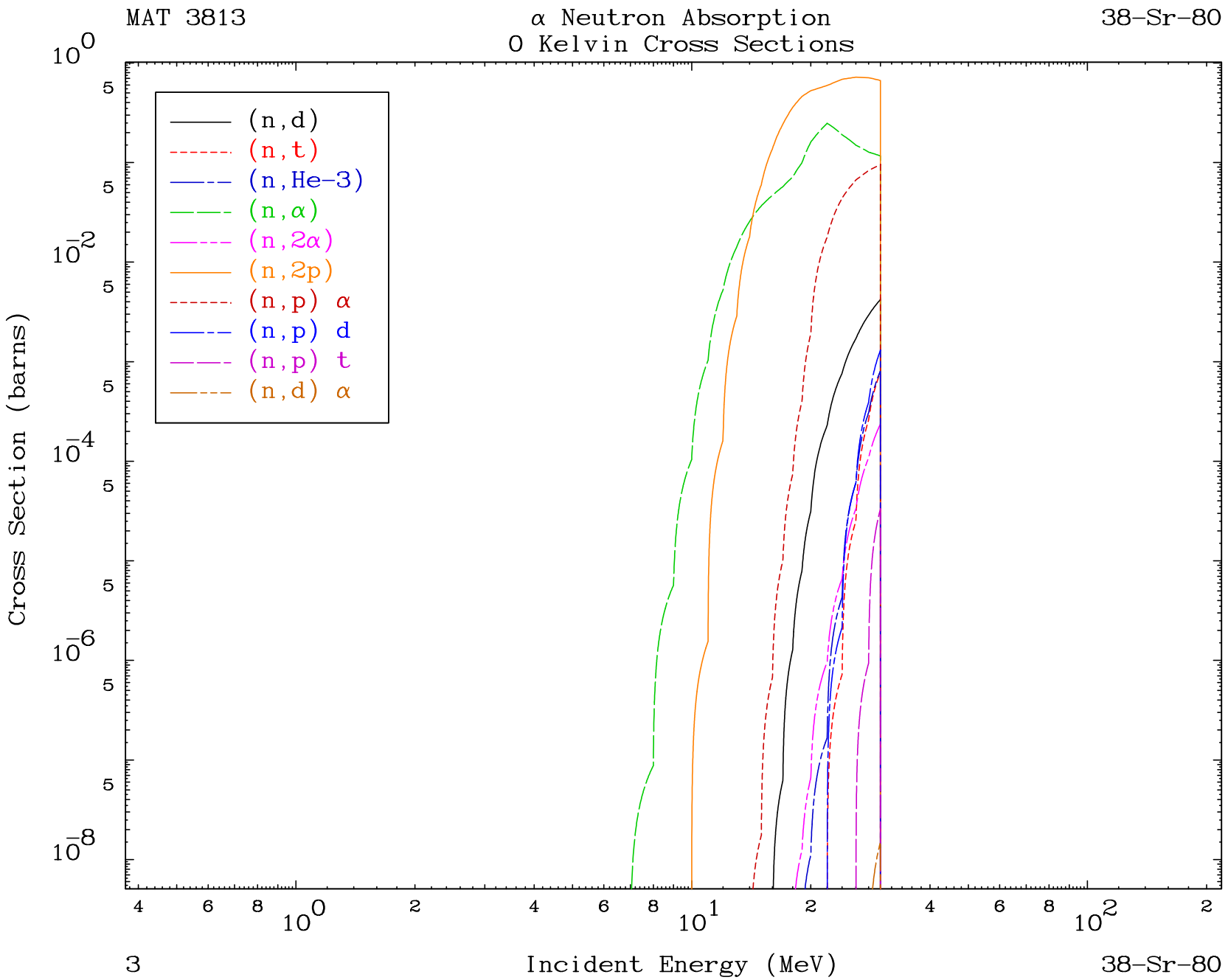
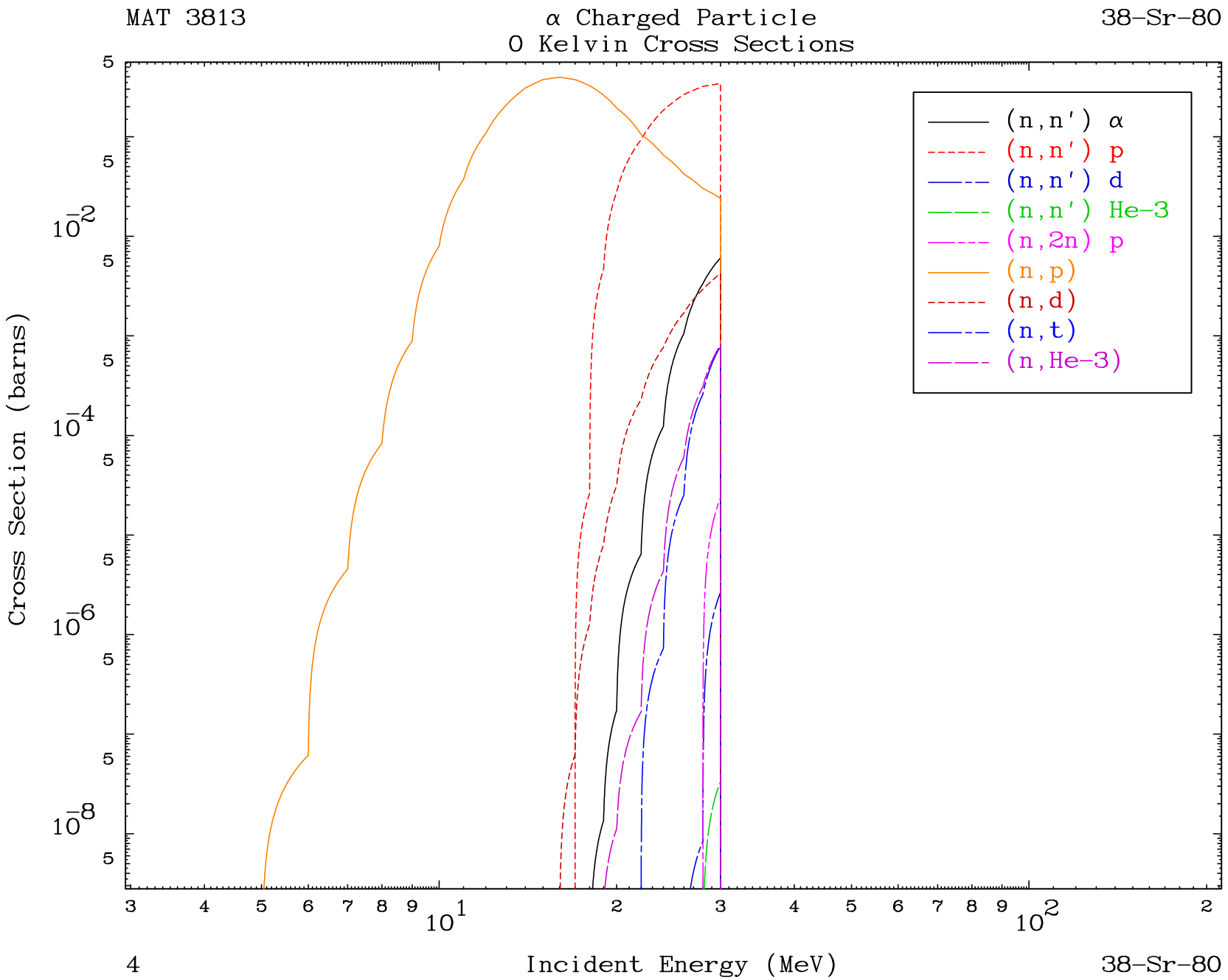
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

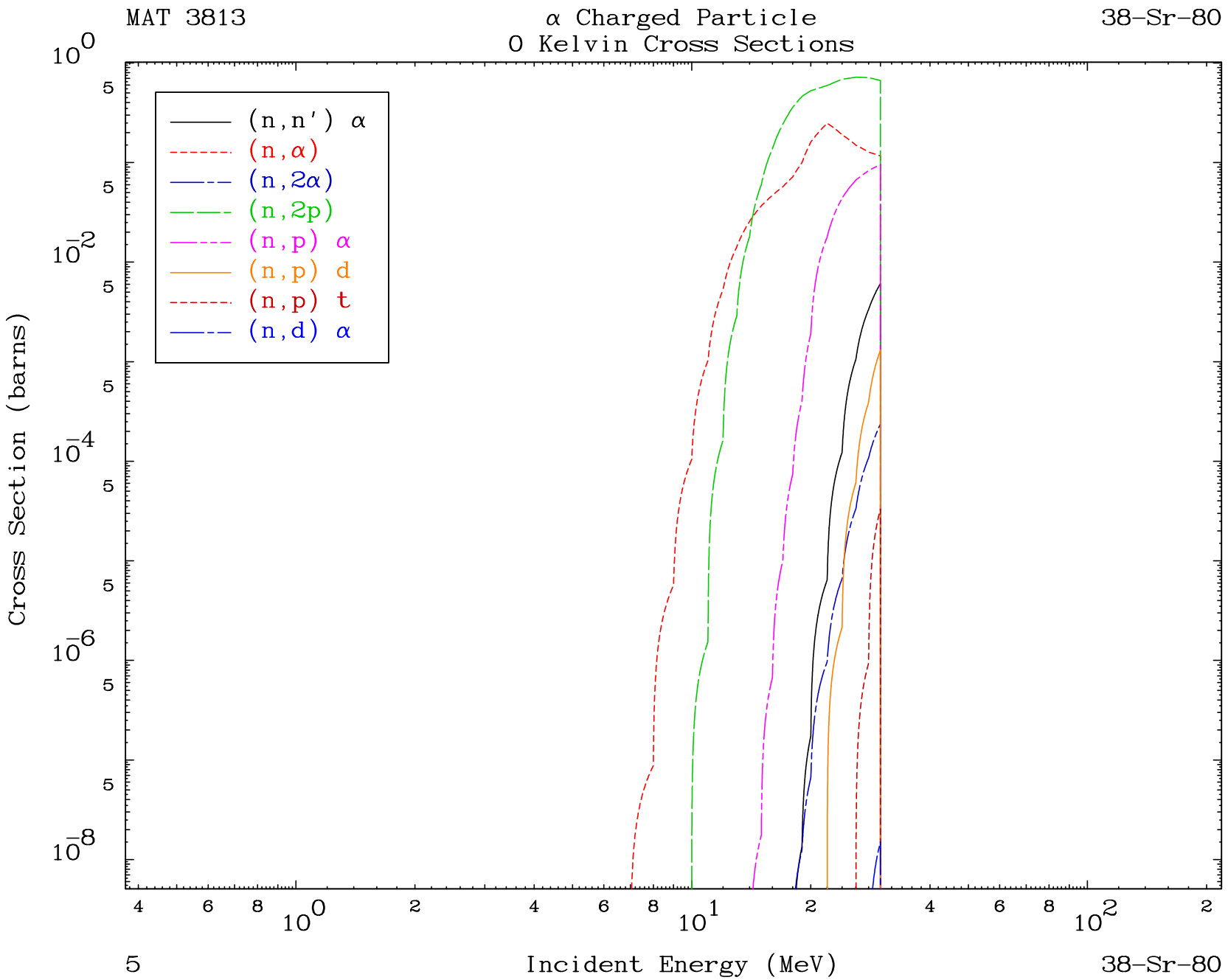
Press Mouse Button to Start

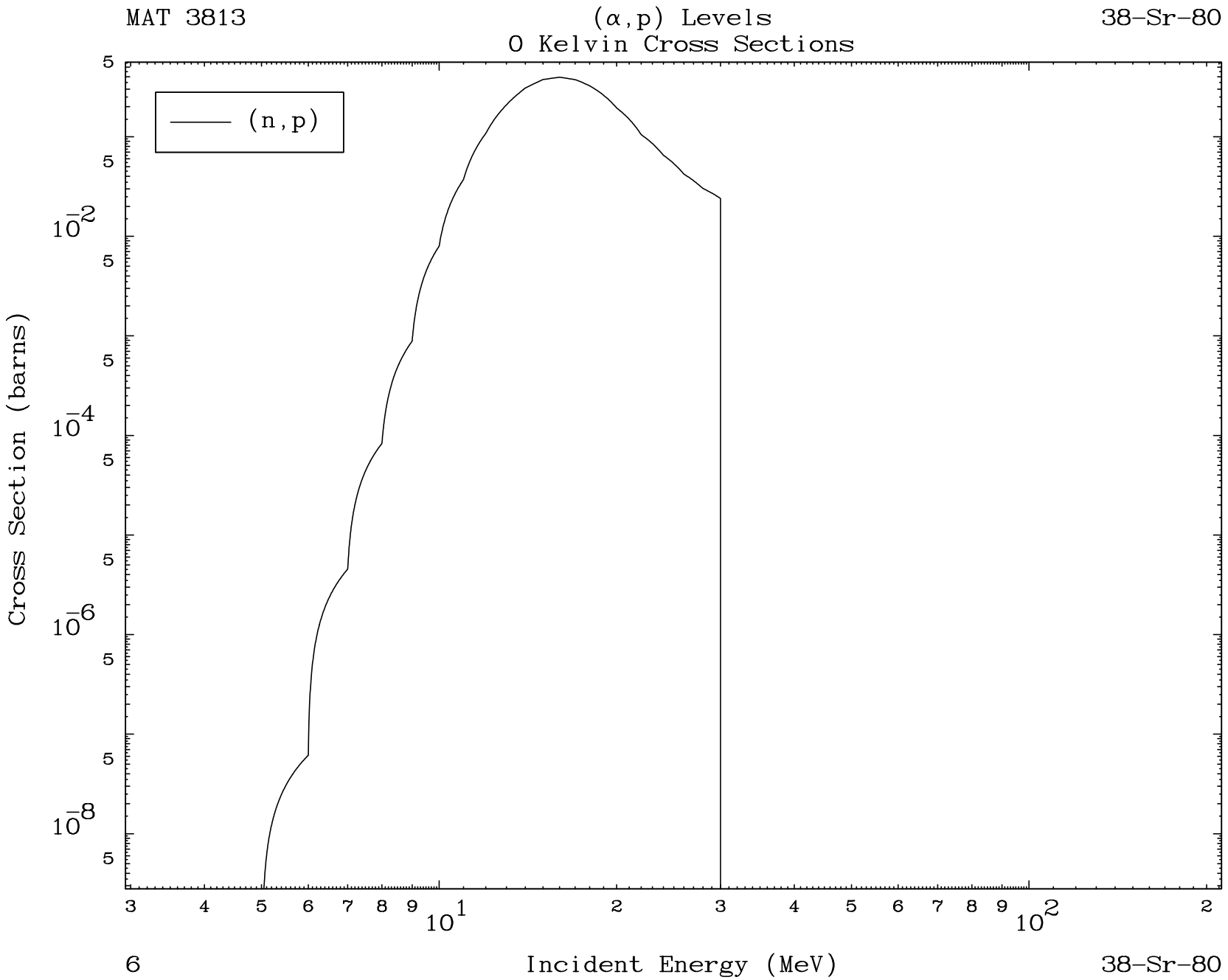

MAT 3813
α Major
38-Sr-80
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
38-Sr-80
1

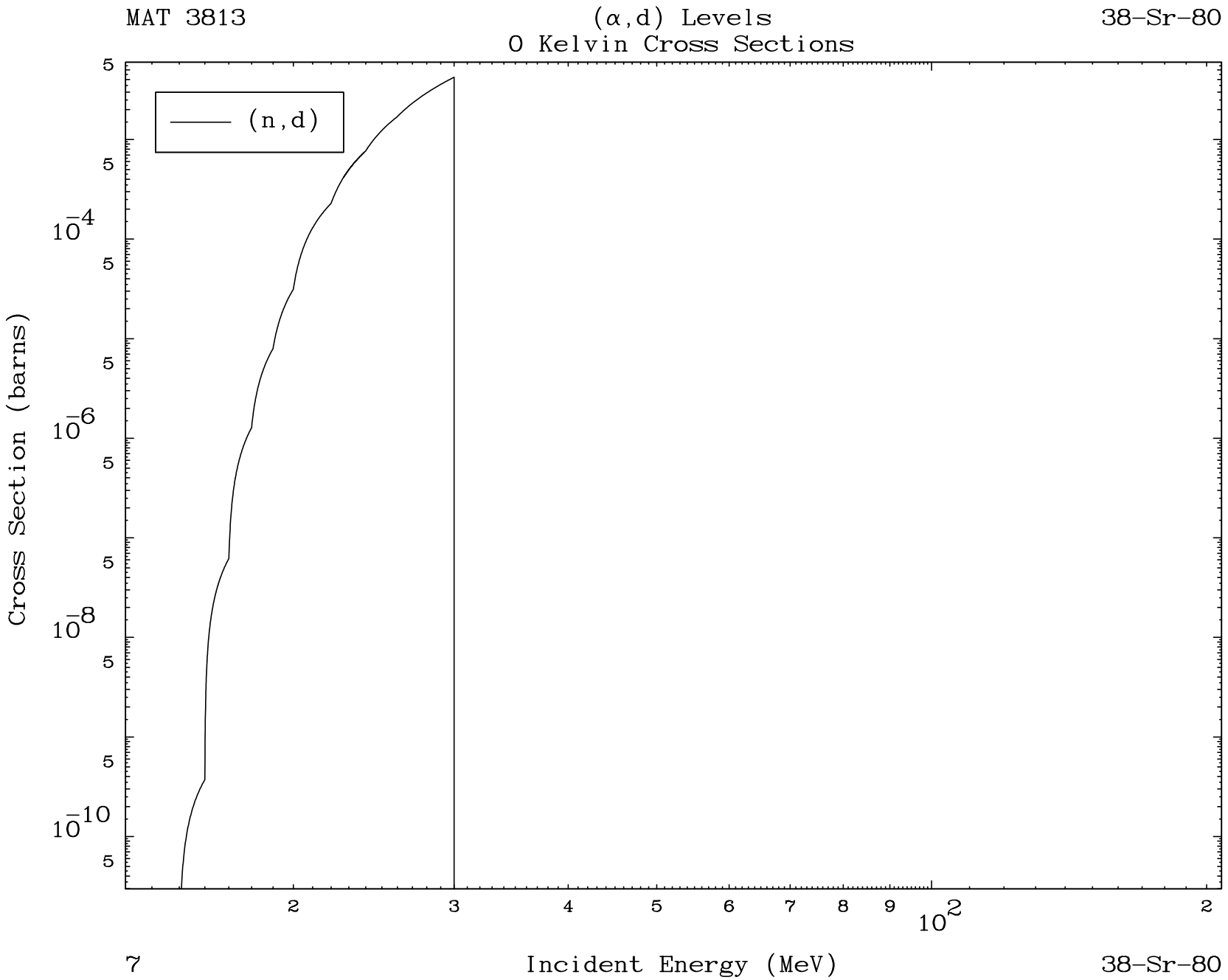

MAT 3813
α Neutron Absorption
0 Kelvin Cross Sections
38-Sr-80
(n,2n)
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
38-Sr-80
2


MAT 3813
α Neutron Absorption
0 Kelvin Cross Sections
38-Sr-80
(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
38-Sr-80

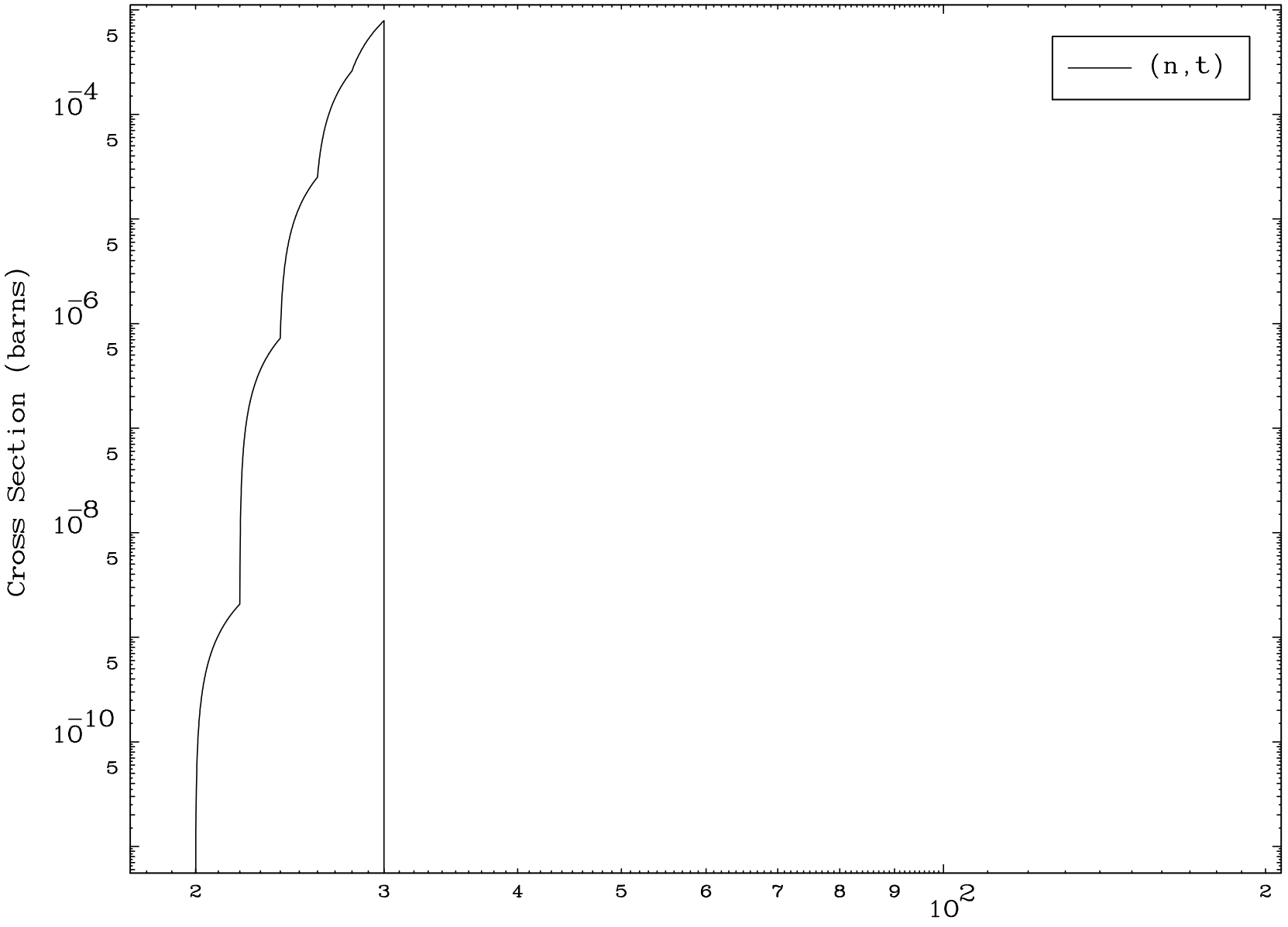

MAT 3813
α Charged Particle
0 Kelvin Cross Sections
38-Sr-80
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
4
38-Sr-80


MAT 3813
α Charged Particle
0 Kelvin Cross Sections
38-Sr-80
(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)
38-Sr-80

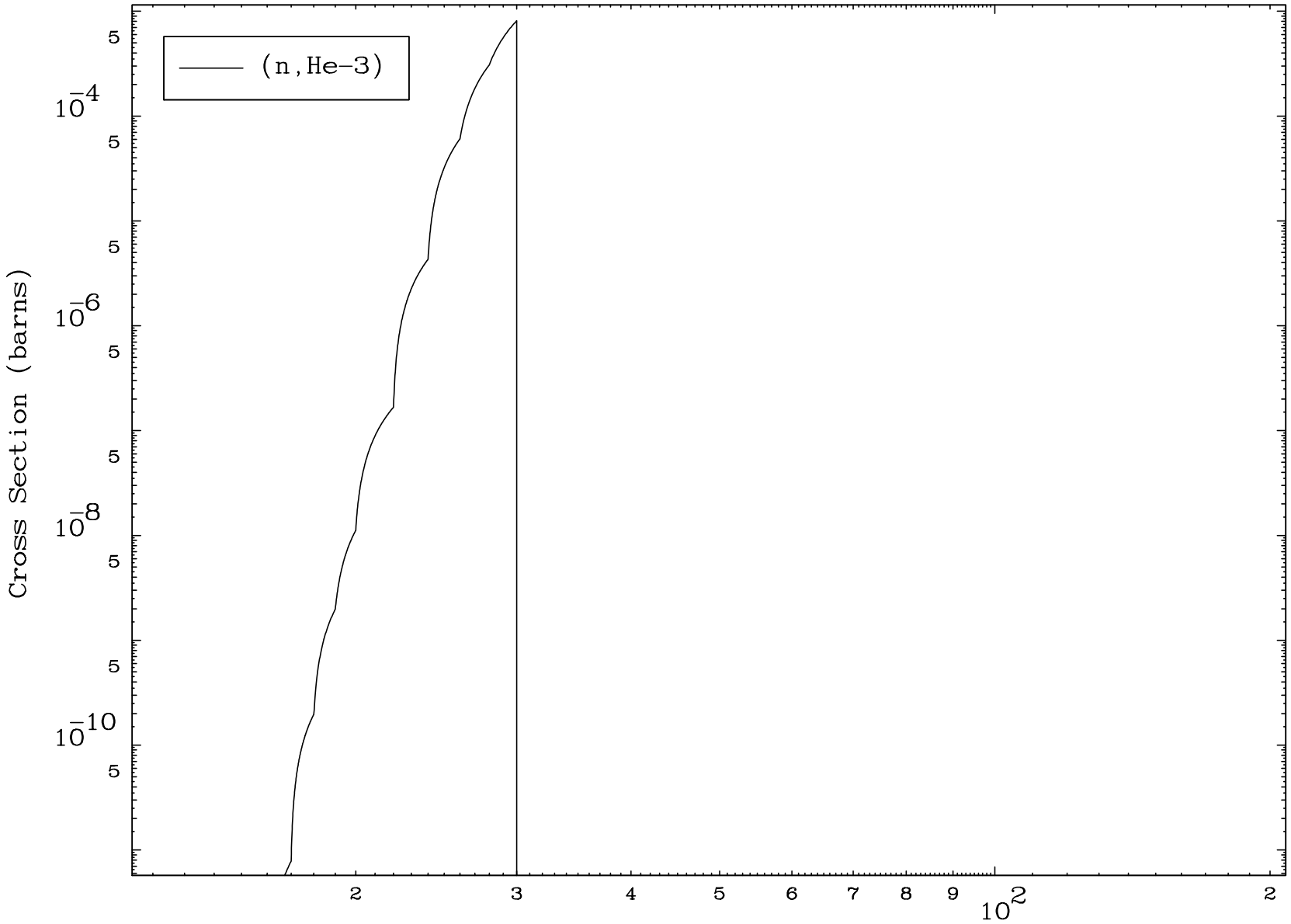

MAT 3813
(α,p) Levels
38-Sr-80
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
38-Sr-80

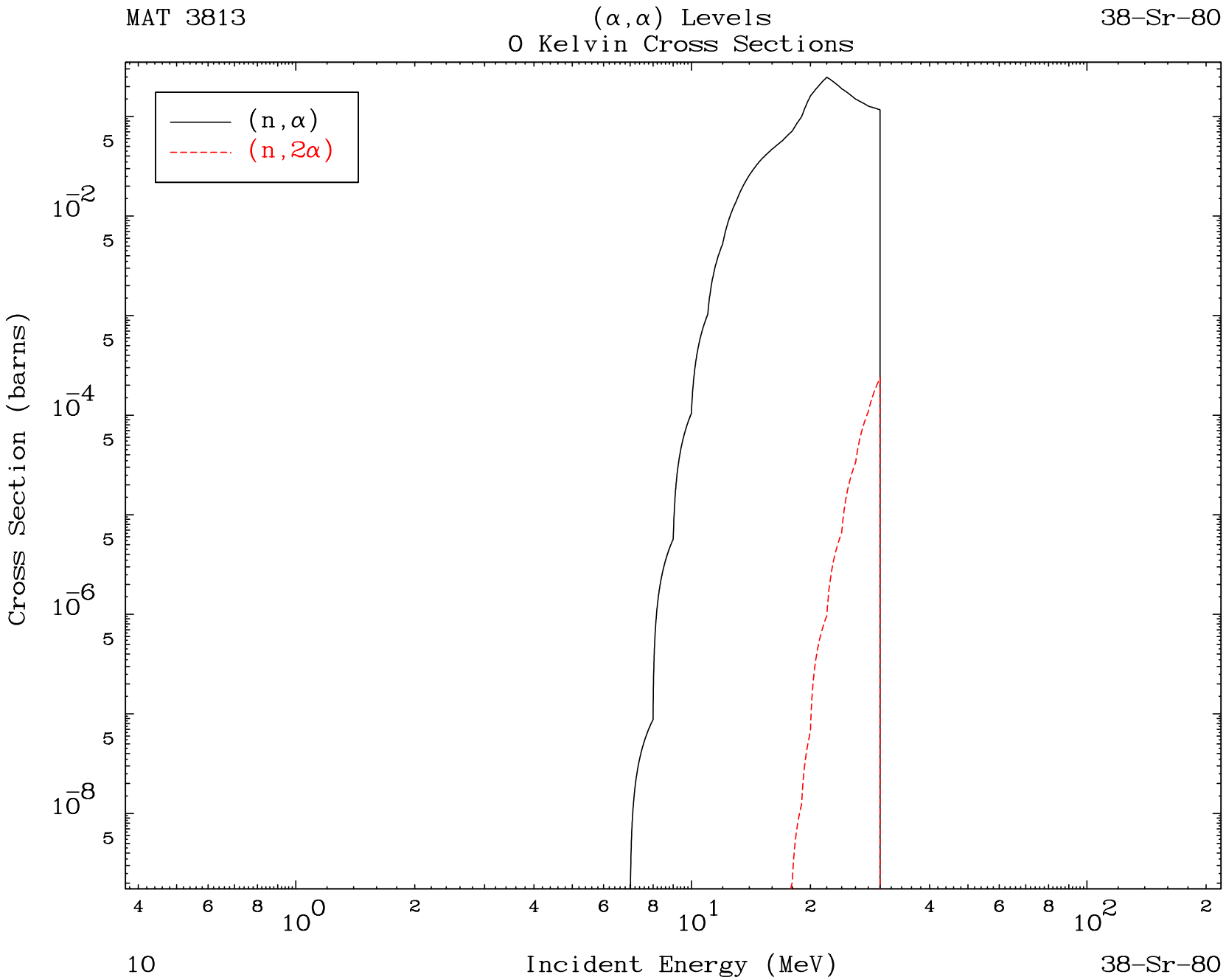

MAT 3813
(α,d) Levels
38-Sr-80
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
7
38-Sr-80

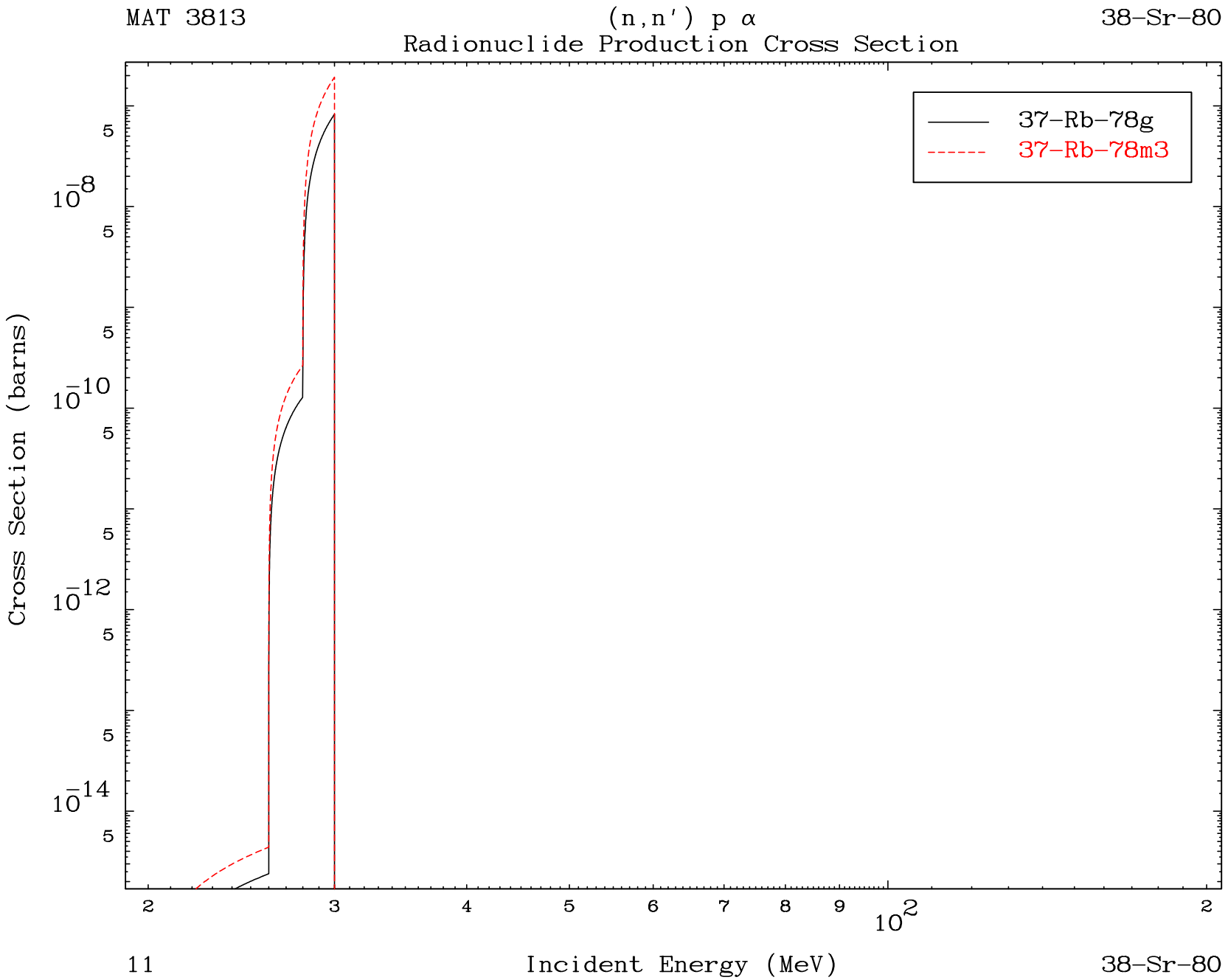
0 Kelvin Cross Sections

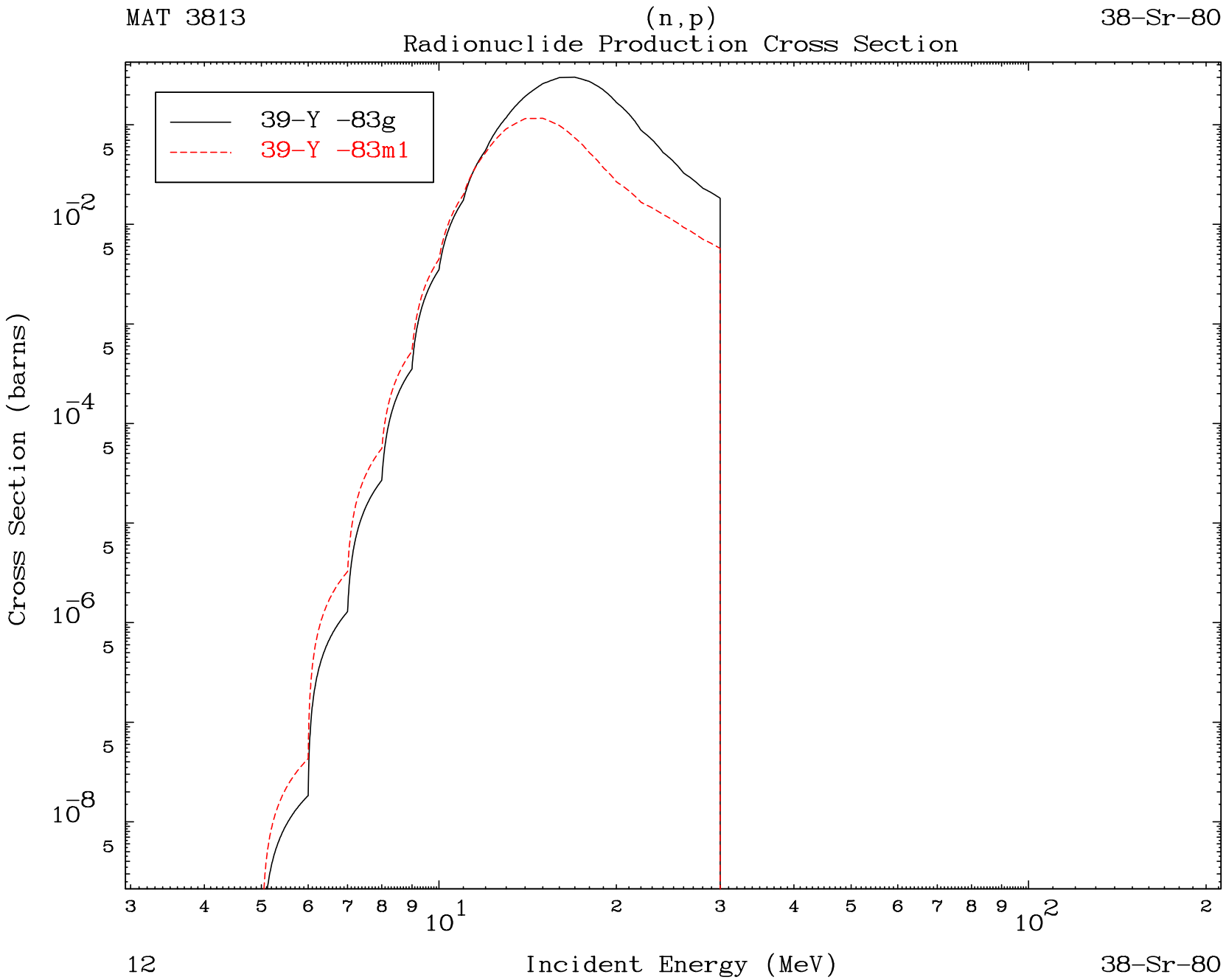


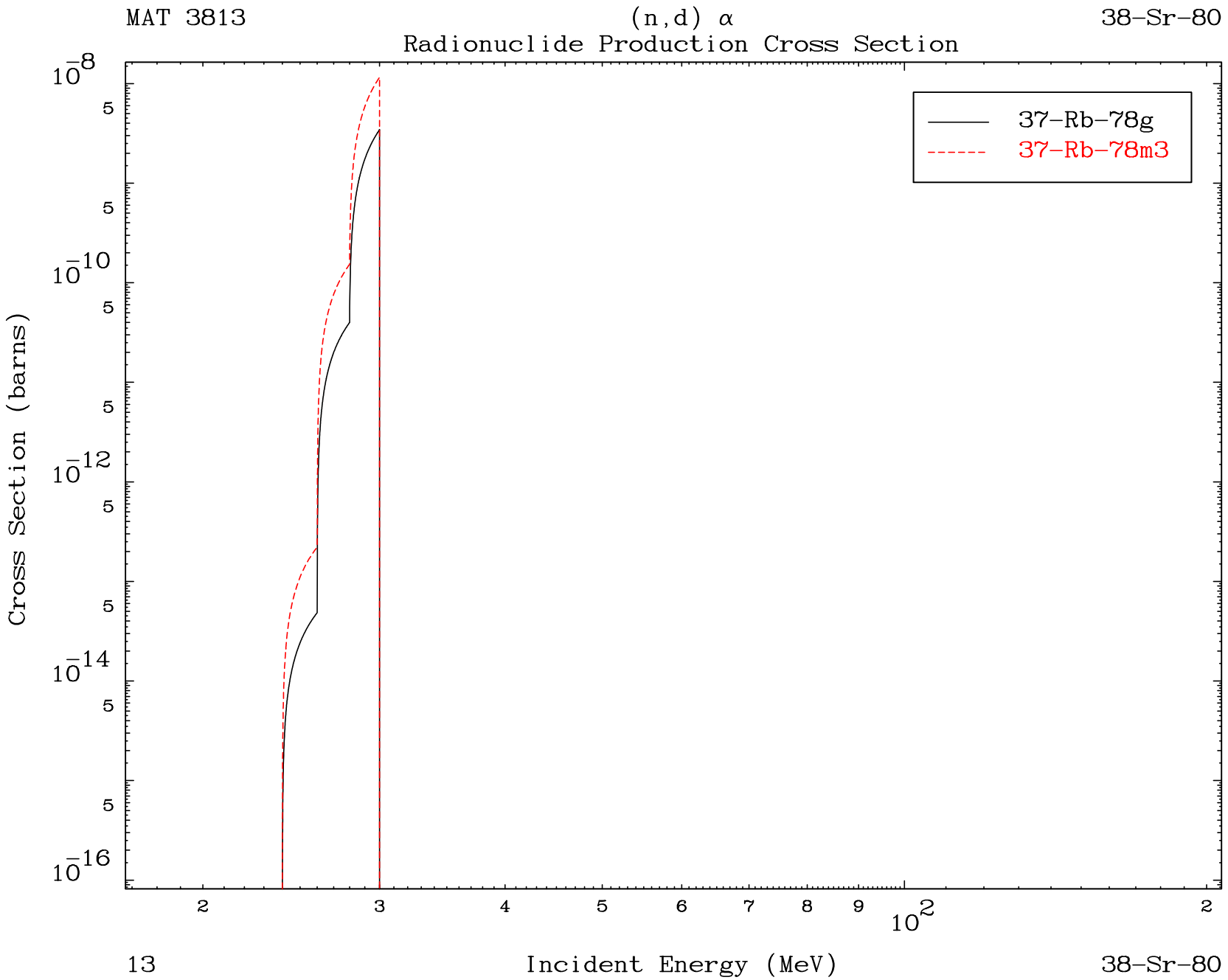
0 Kelvin Cross Sections




MAT 3813
(α,α) Levels
38-Sr-80
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)
10
38-Sr-80


MAT 3813
(n,n') p α
38-Sr-80
Radionuclide Production Cross Section
37-Rb-78g
37-Rb-78m3
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
38-Sr-80


MAT 3813
(n,p)
38-Sr-80
Radionuclide Production Cross Section
39-Y -83g
39-Y -83m1
Cross Section (barns)
Incident Energy (MeV)
12
38-Sr-80


MAT 3813
(n,d) α
38-Sr-80
Radionuclide Production Cross Section
37-Rb-78g
37-Rb-78m3
Cross Section (barns)
Incident Energy (MeV)
13
38-Sr-80