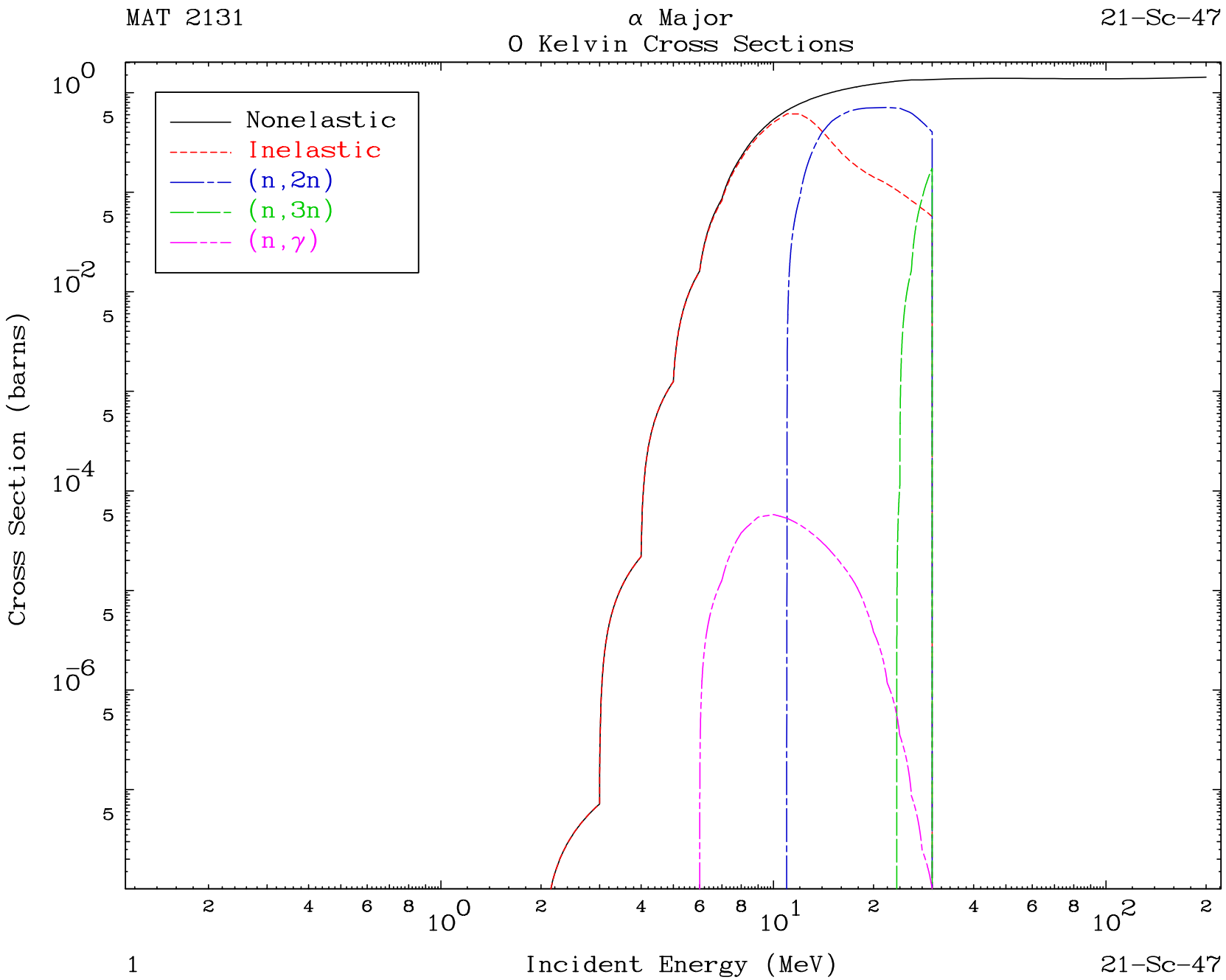
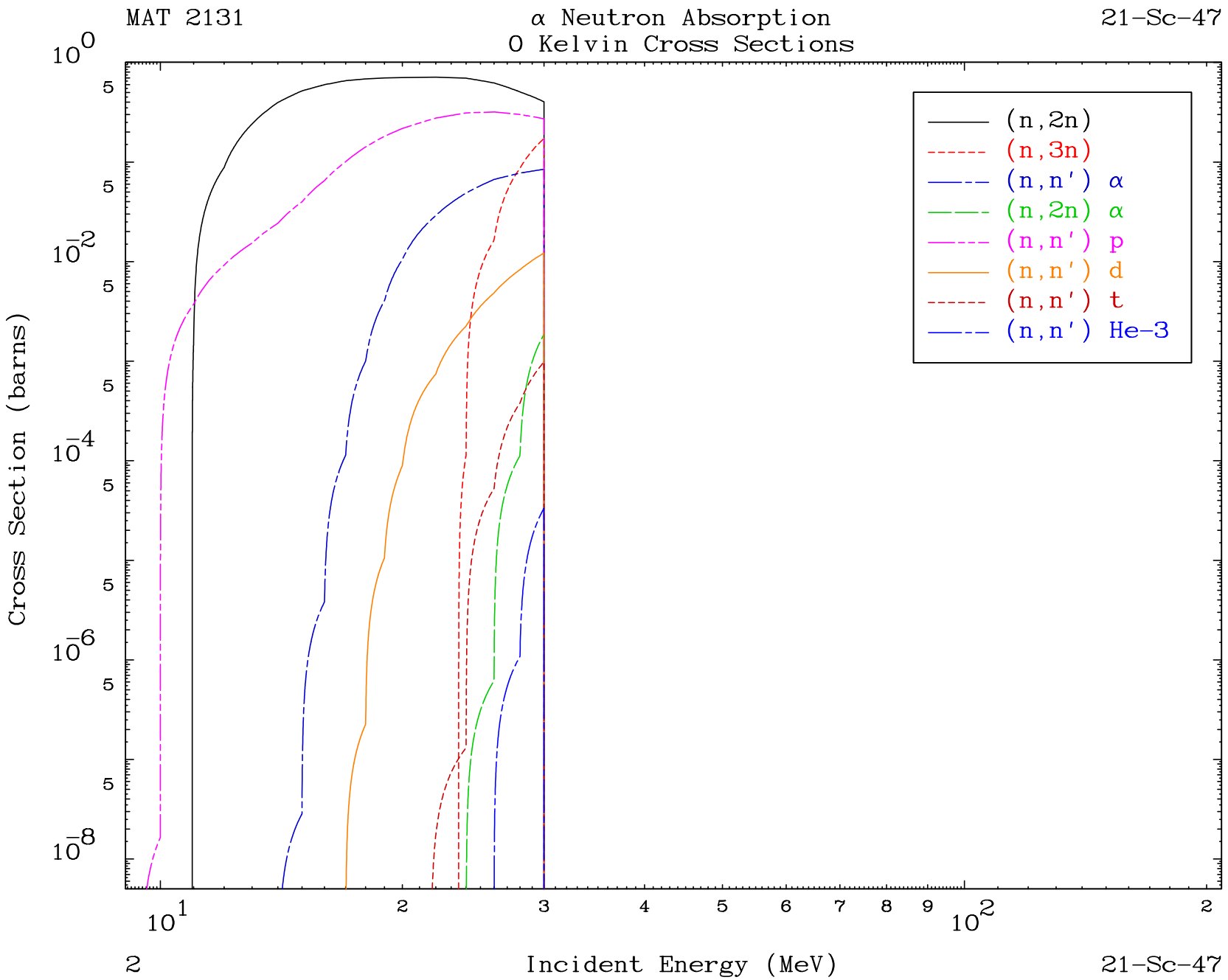
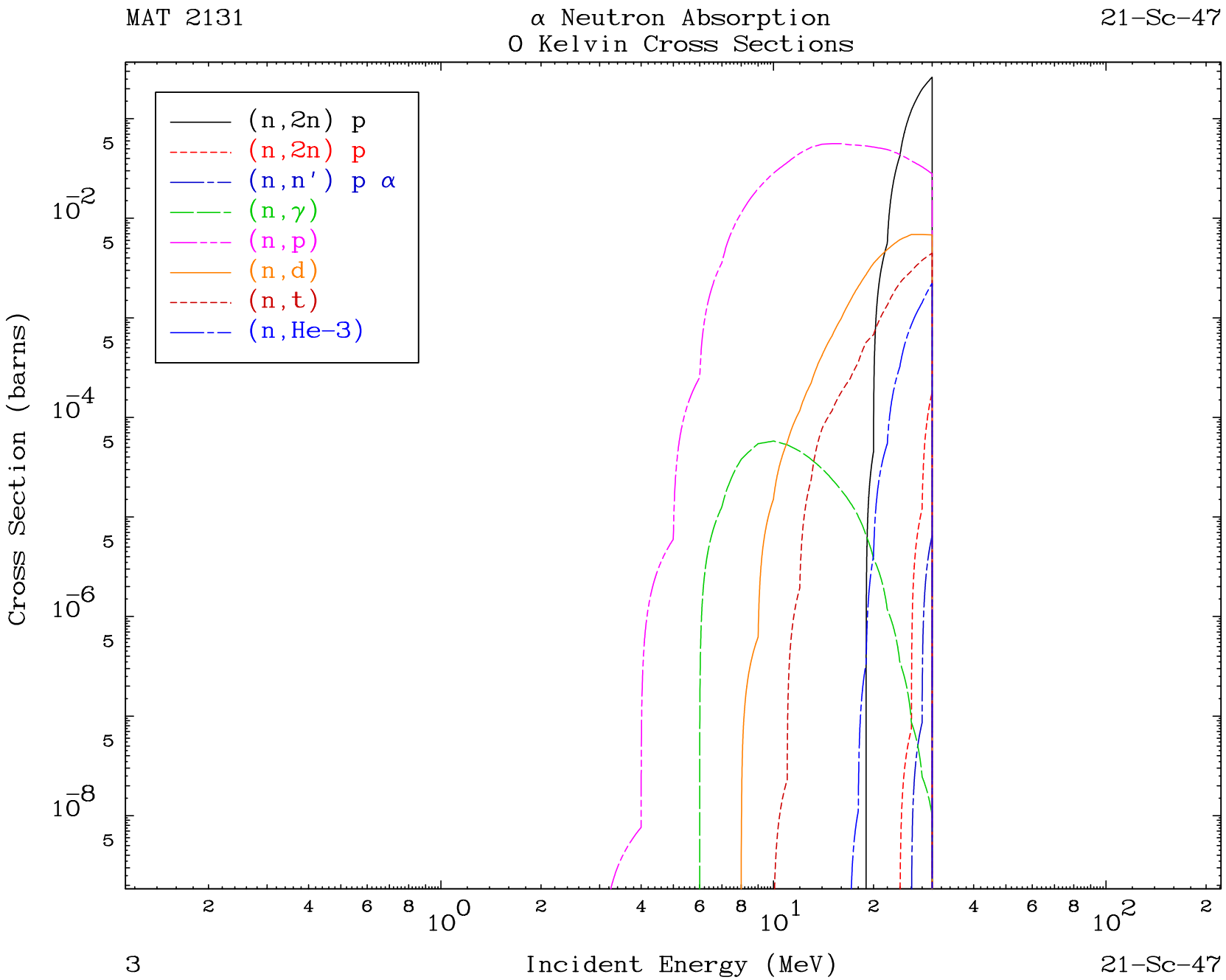
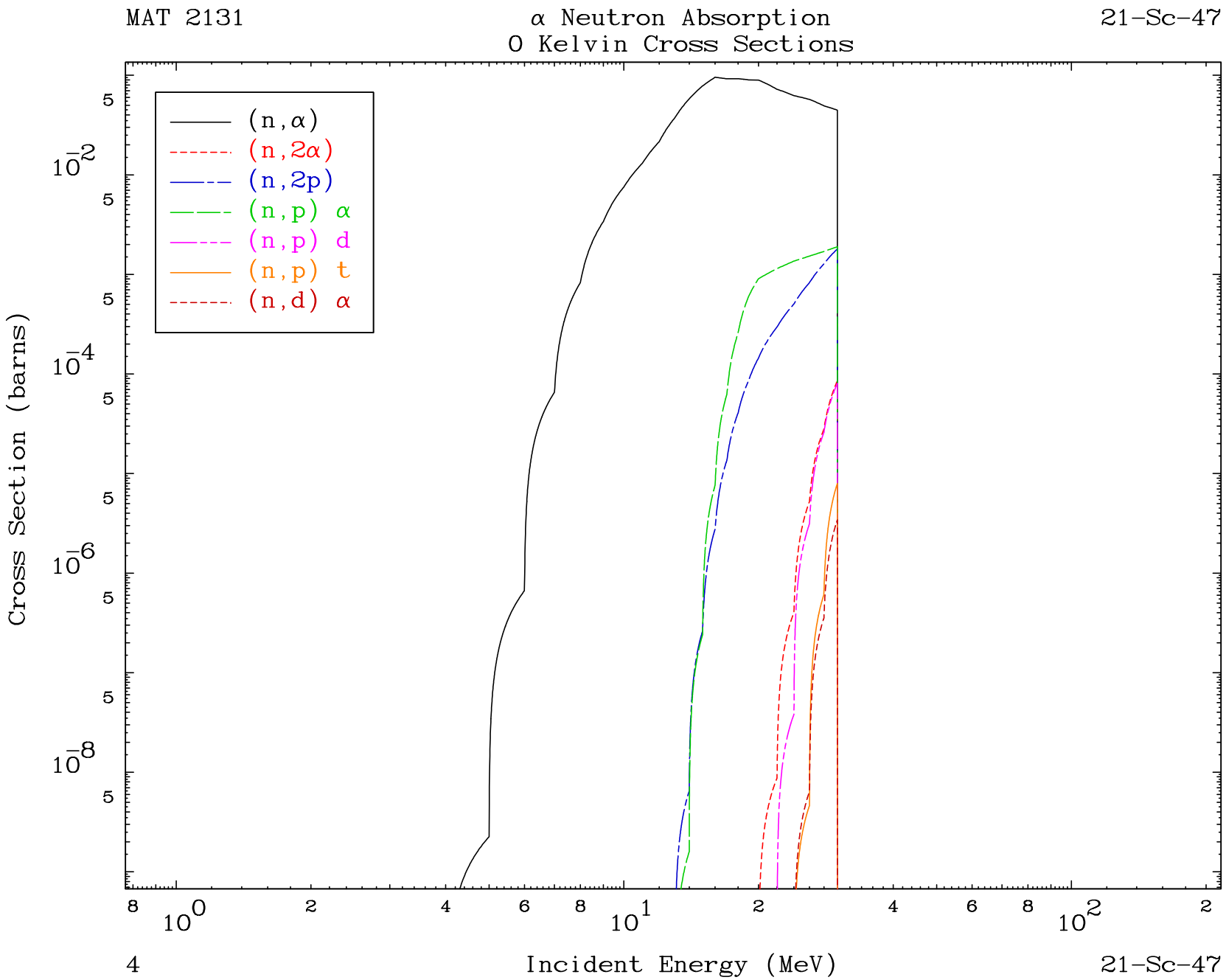
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

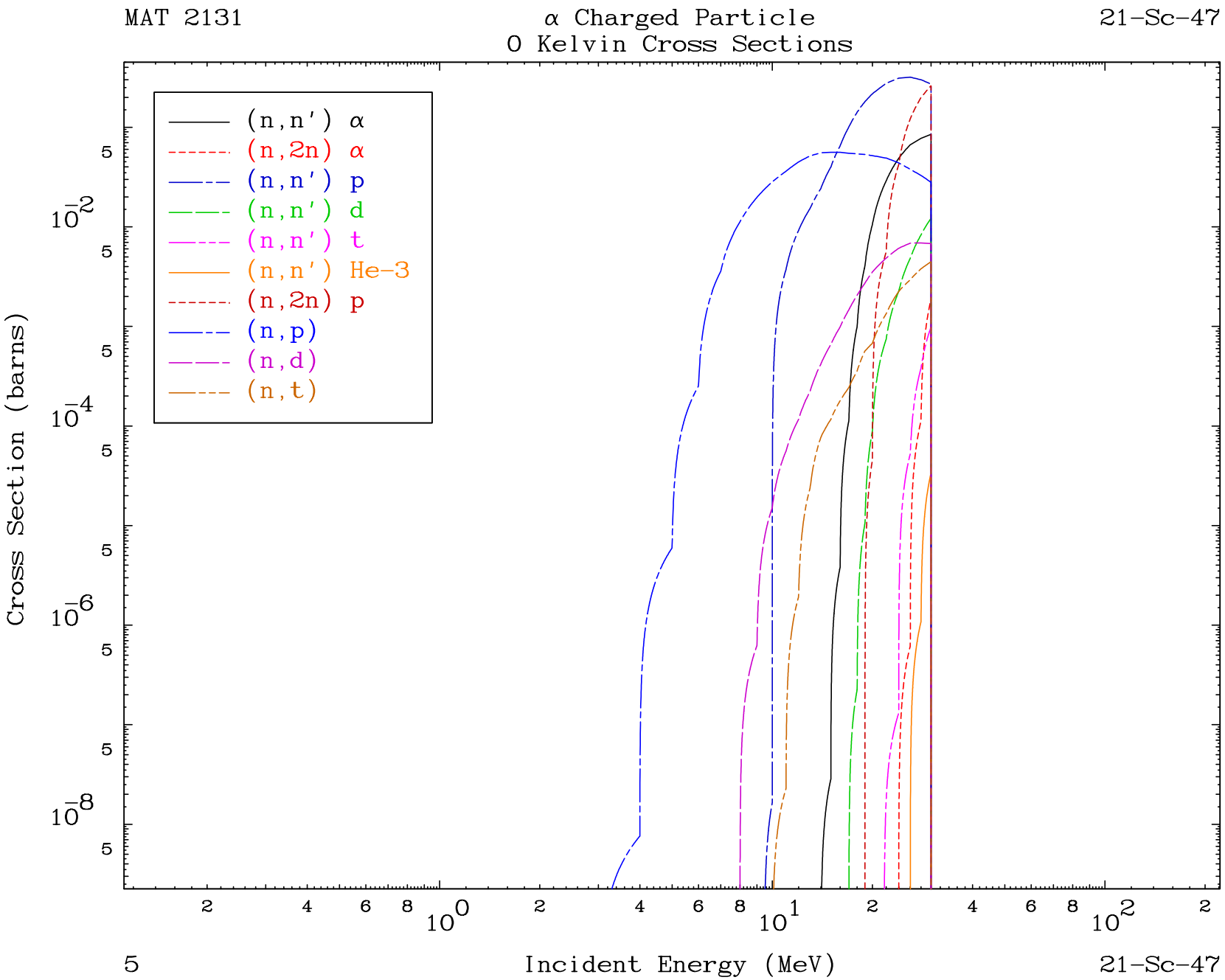
Press Mouse Button to Start

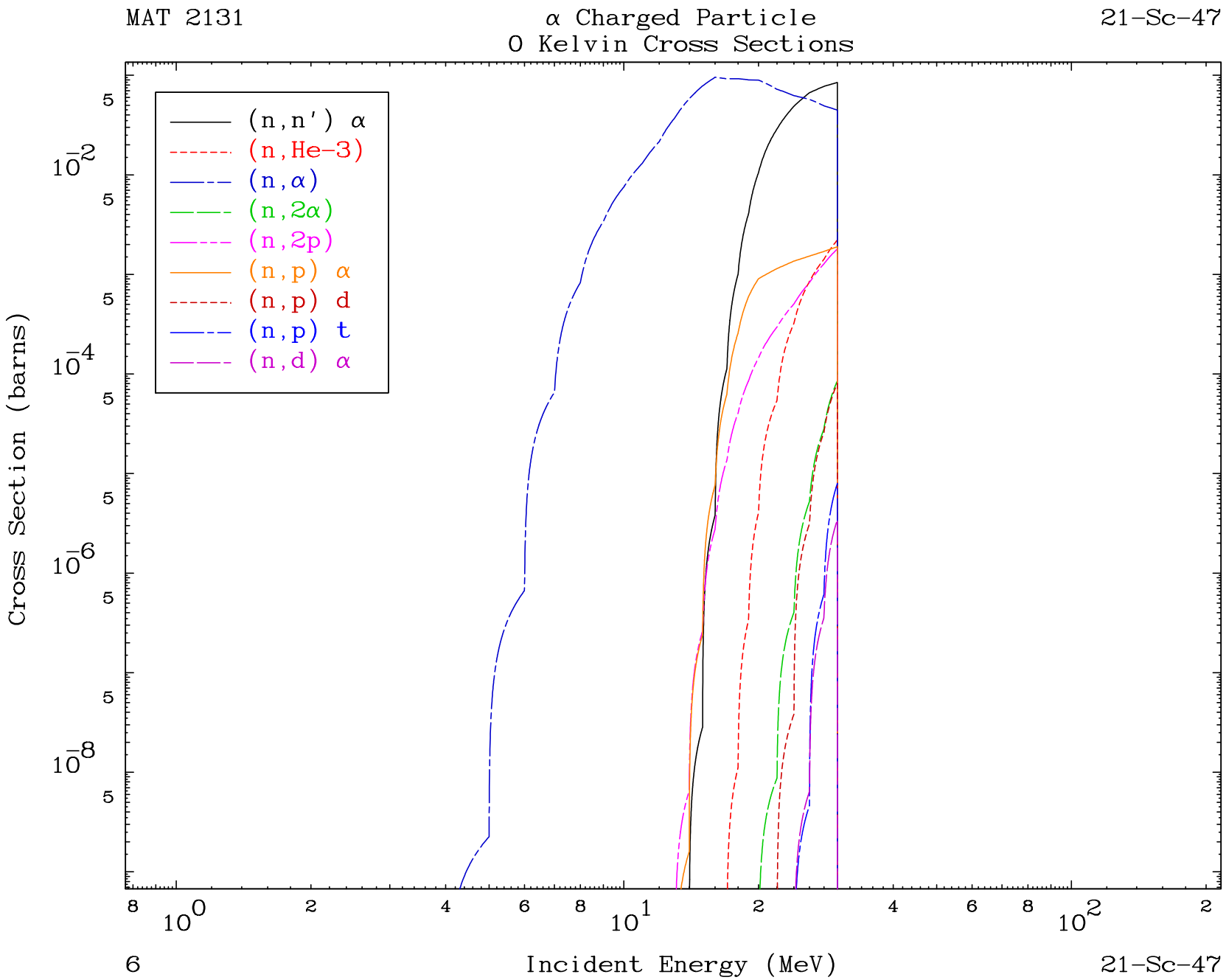

MAT 2131
α Major
21-Sc-47
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
21-Sc-47

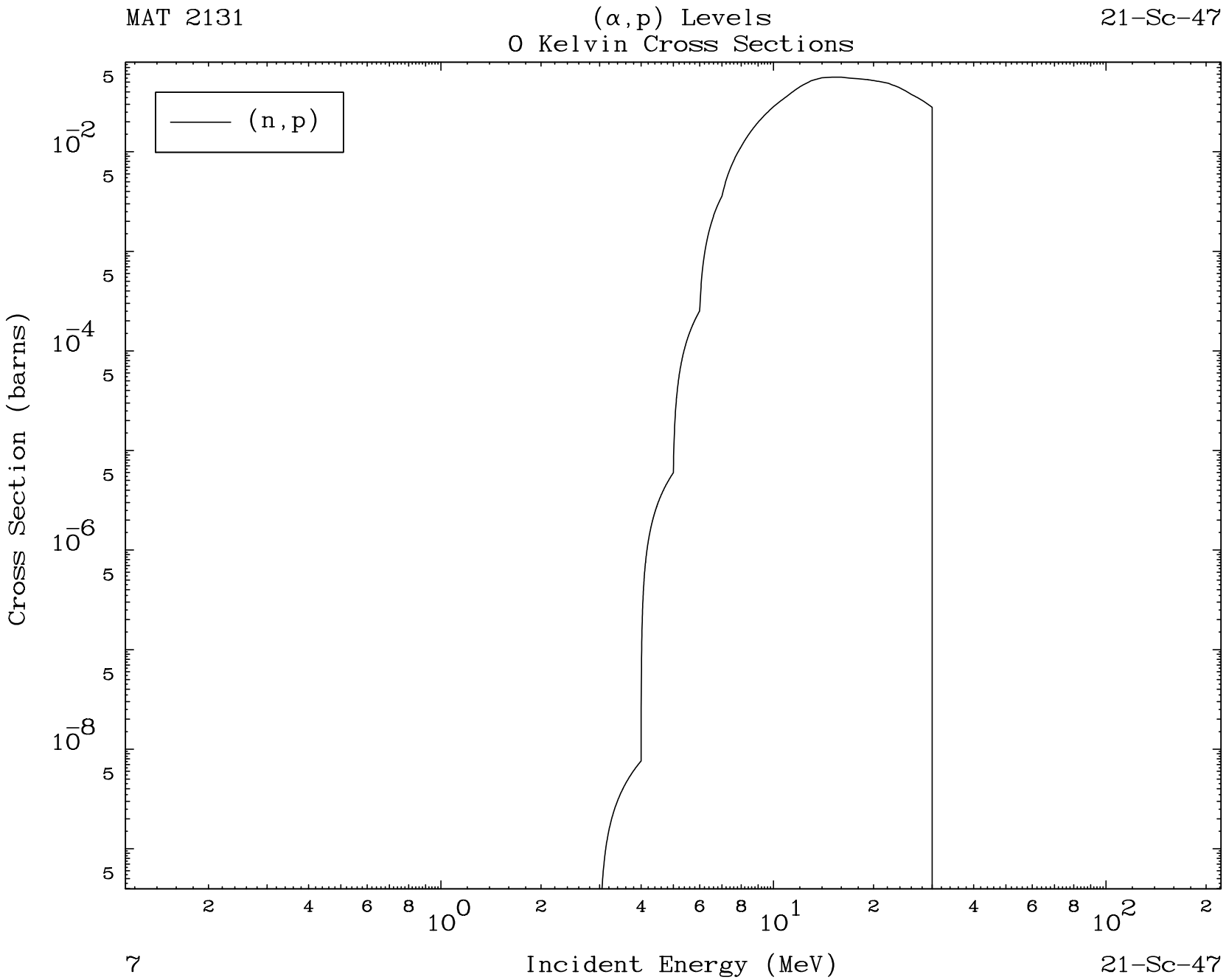

MAT 2131
α Neutron Absorption
0 Kelvin Cross Sections
21-Sc-47
Cross Section (barns)
Incident Energy (MeV)
21-Sc-47
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3


MAT 2131
α Neutron Absorption
0 Kelvin Cross Sections
21-Sc-47
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
3
21-Sc-47

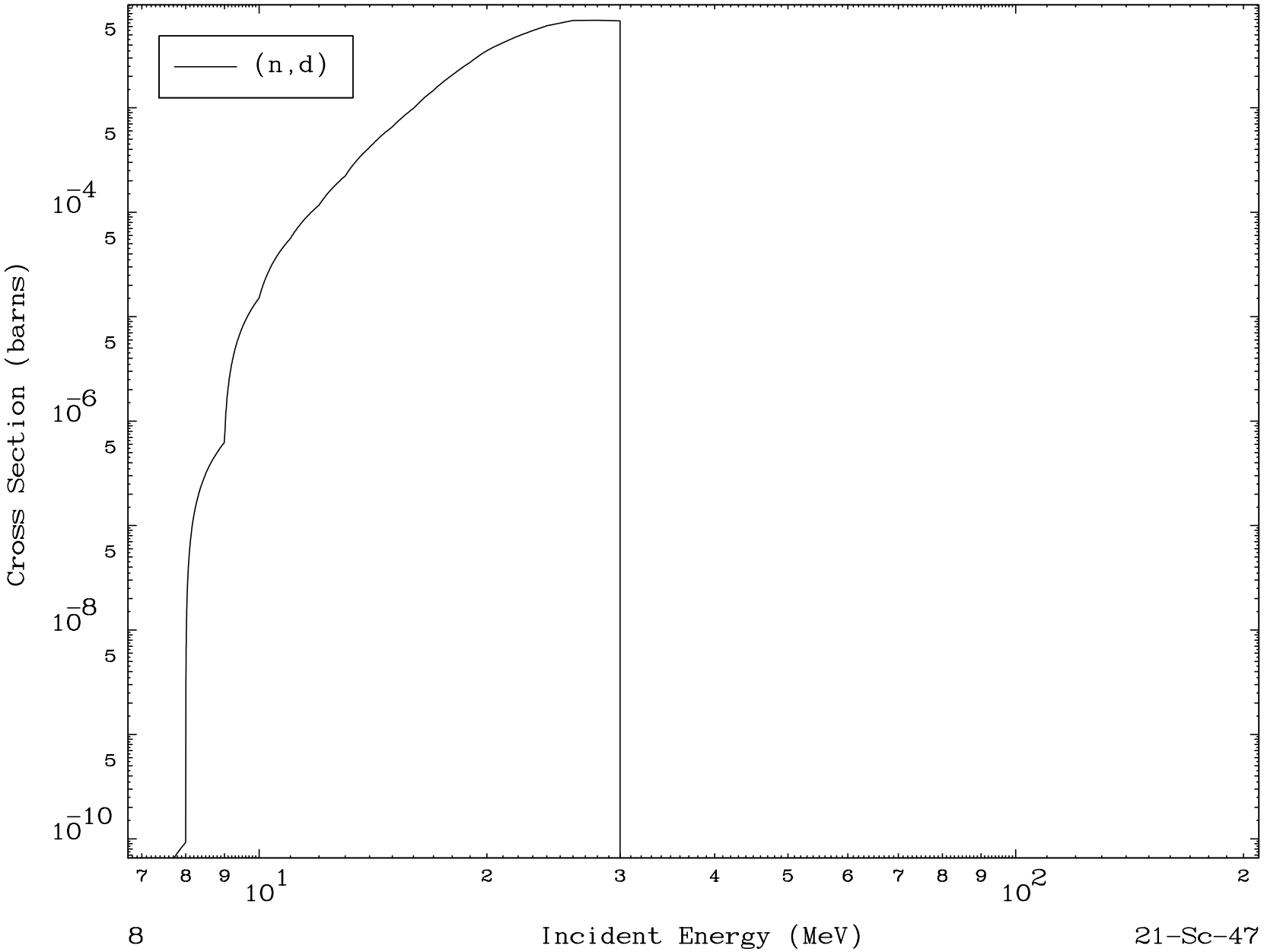

MAT 2131
α Neutron Absorption
0 Kelvin Cross Sections
21-Sc-47
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
21-Sc-47

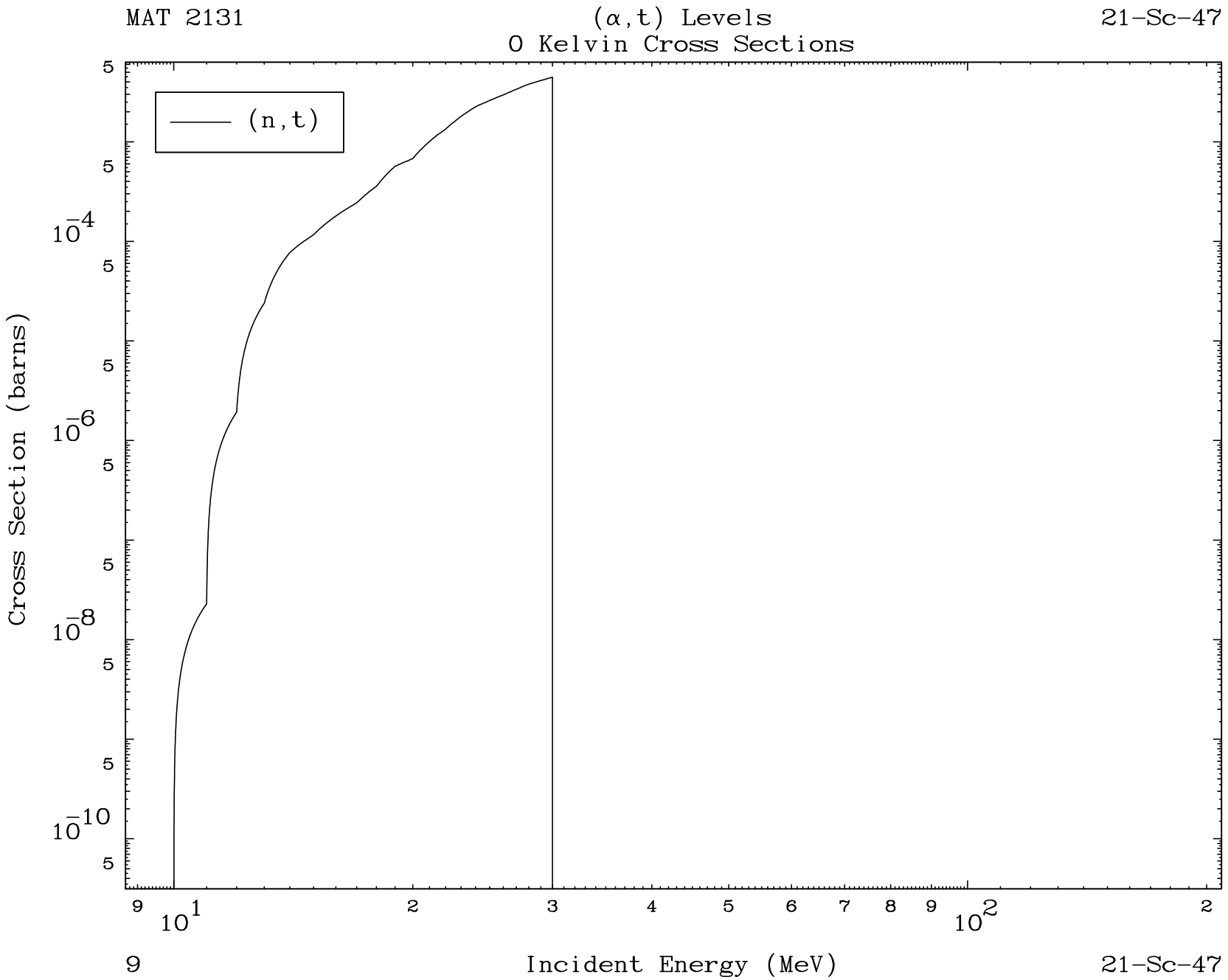

MAT 2131
α Charged Particle
0 Kelvin Cross Sections
21-Sc-47
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
5
21-Sc-47

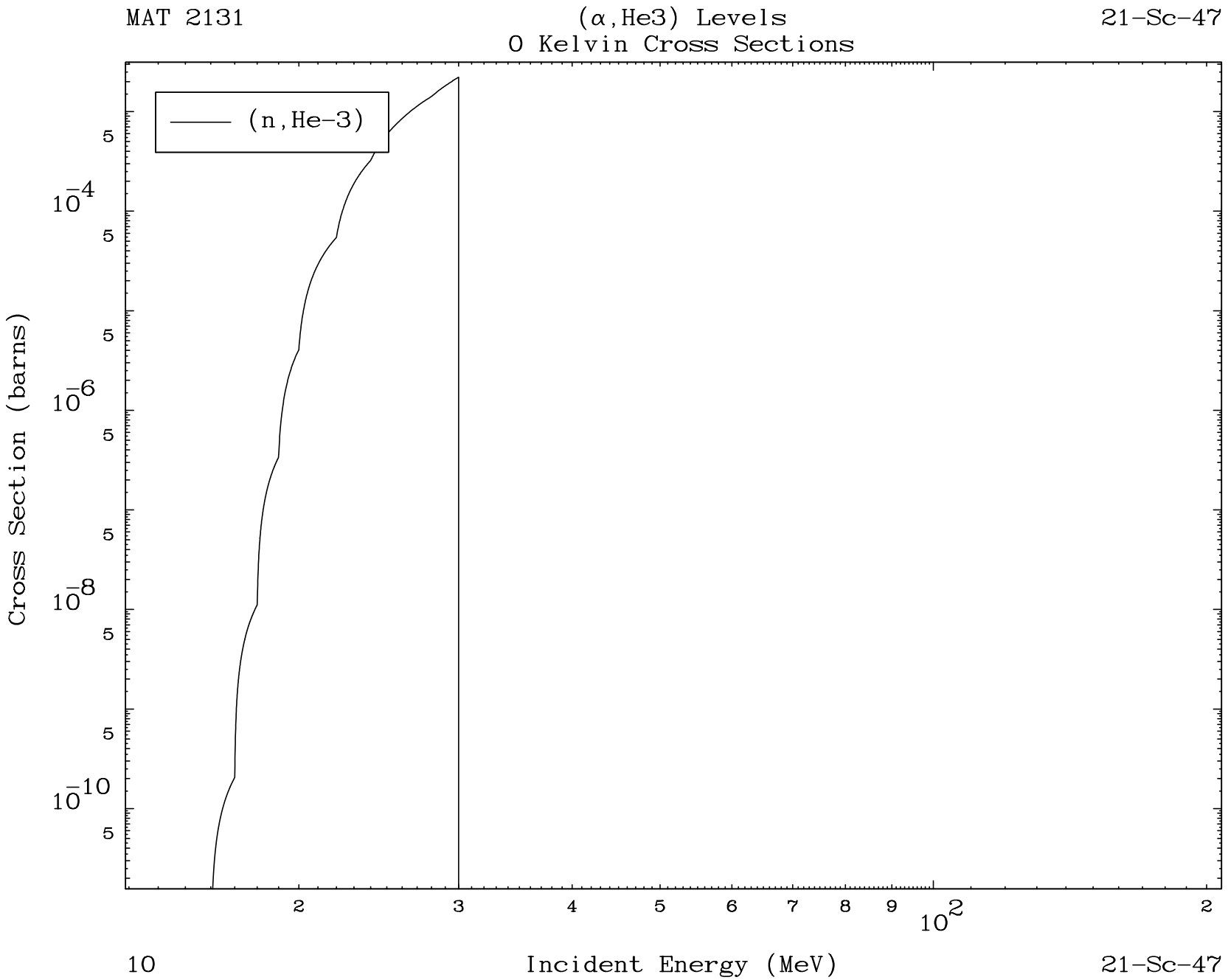

MAT 2131
α Charged Particle
0 Kelvin Cross Sections
21-Sc-47
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
21-Sc-47
6

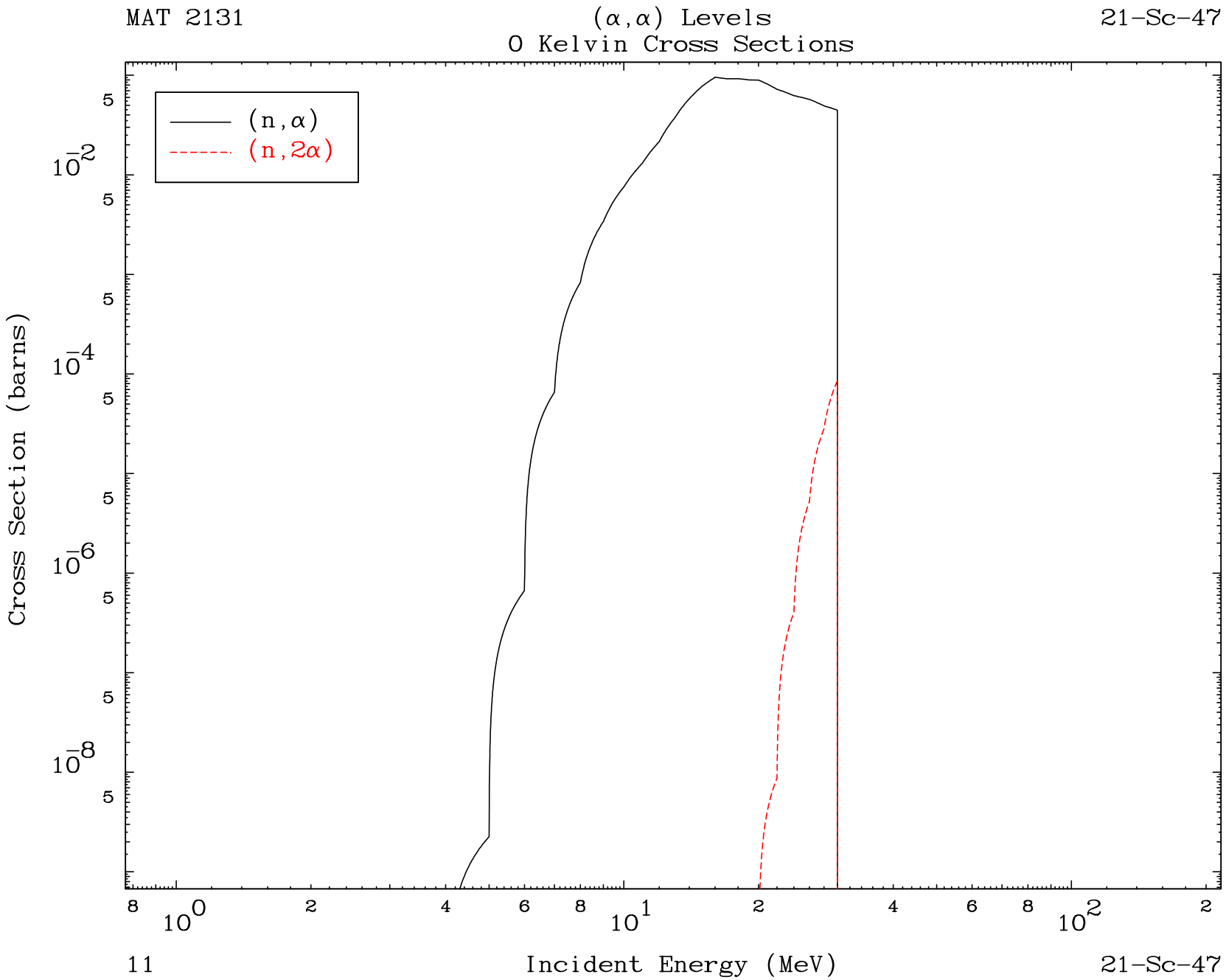

MAT 2131
(α,p) Levels
21-Sc-47
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
21-Sc-47

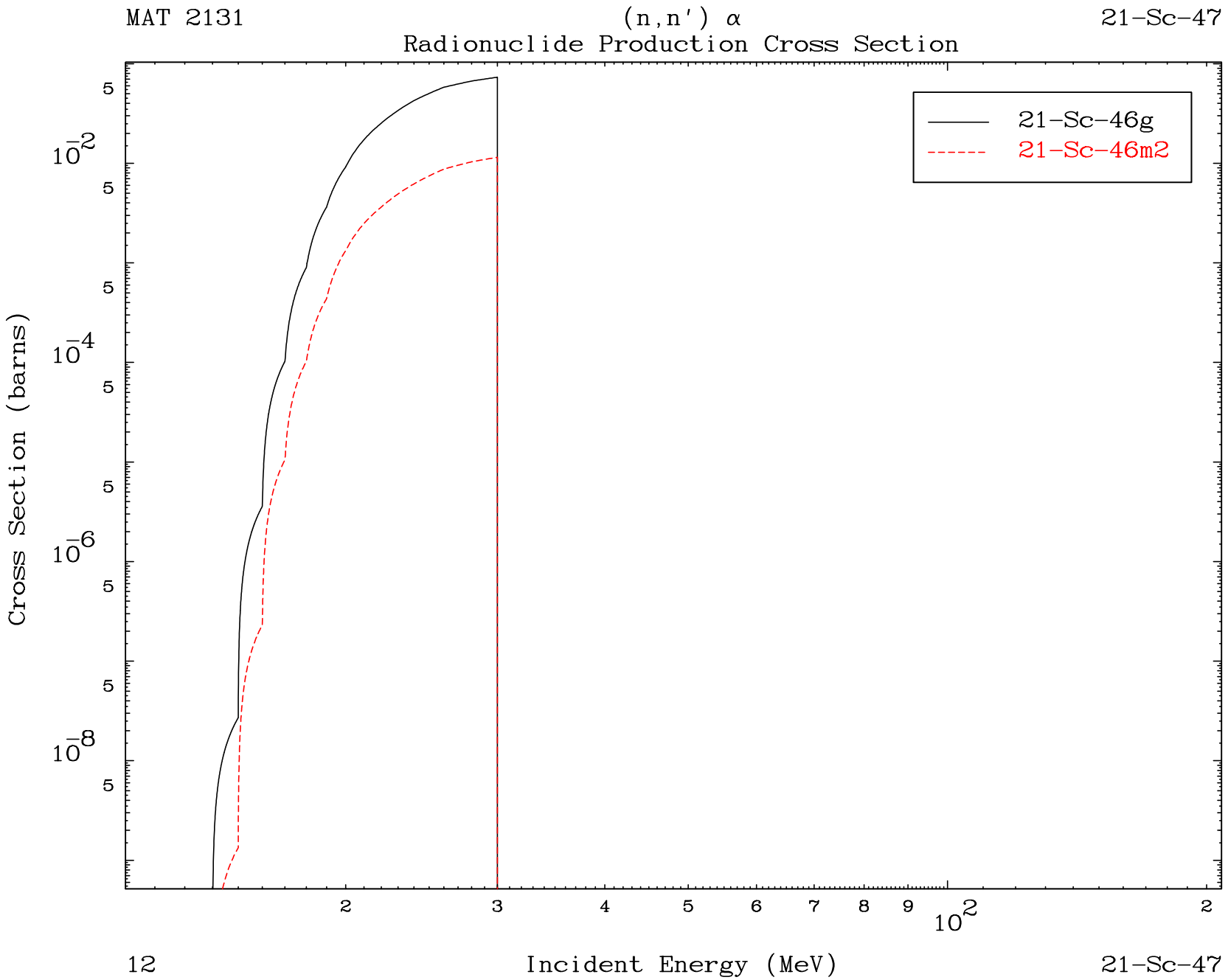
0 Kelvin Cross Sections

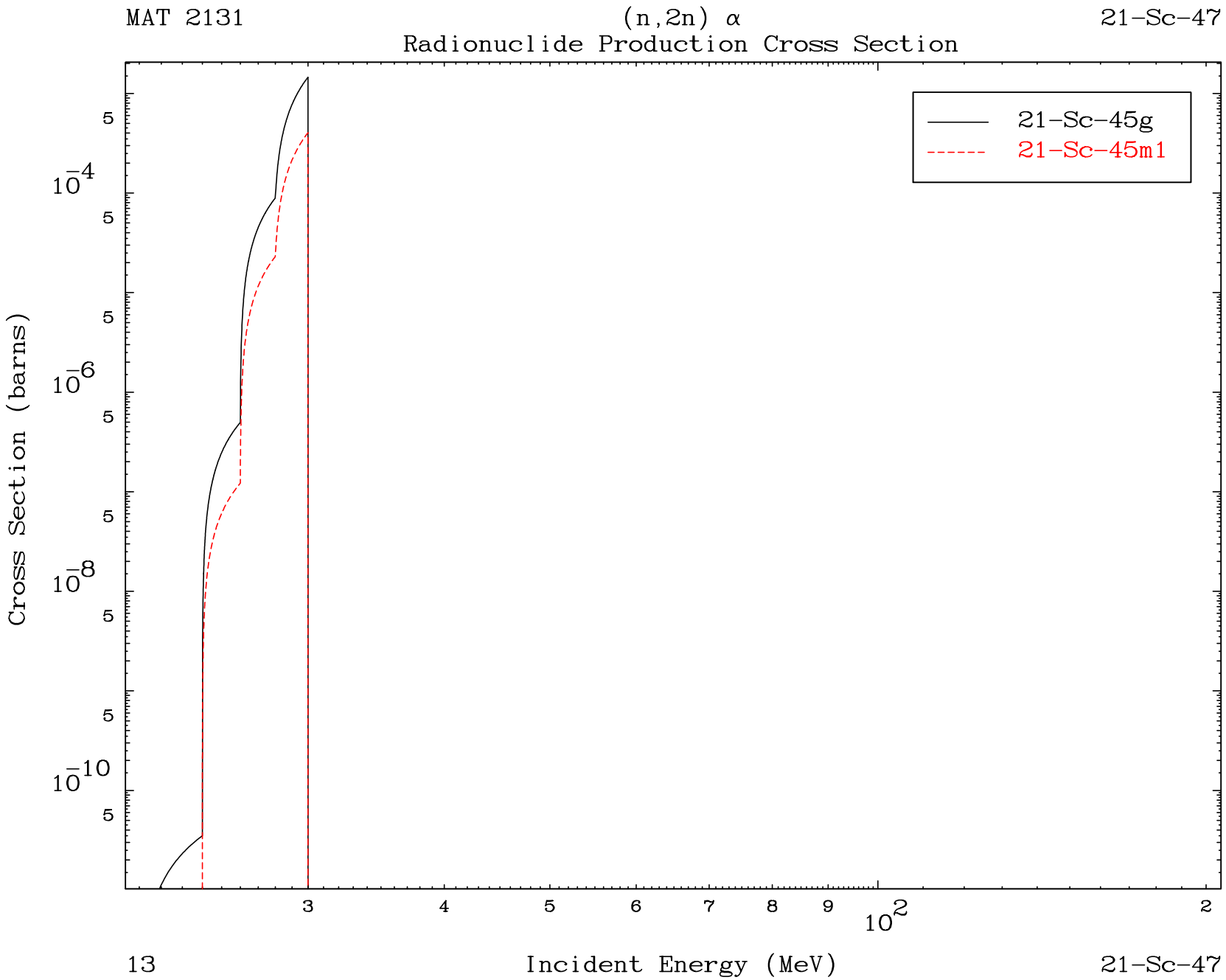



MAT 2131
(α,t) Levels
21-Sc-47
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10 1
10 2
21-Sc-47


MAT 2131
(α,He3) Levels
21-Sc-47
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
21-Sc-47


MAT 2131
(α,α) Levels
21-Sc-47
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
8
100
2
4
6
8
101
2
4
6
8
102
2
11
Incident Energy (MeV)
21-Sc-47


MAT 2131
(n,n') α
21-Sc-47
Radionuclide Production Cross Section
21-Sc-46g
21-Sc-46m2
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)
21-Sc-47


MAT 2131
(n,2n) α
21-Sc-47
Radionuclide Production Cross Section
21-Sc-45g
21-Sc-45m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
21-Sc-47