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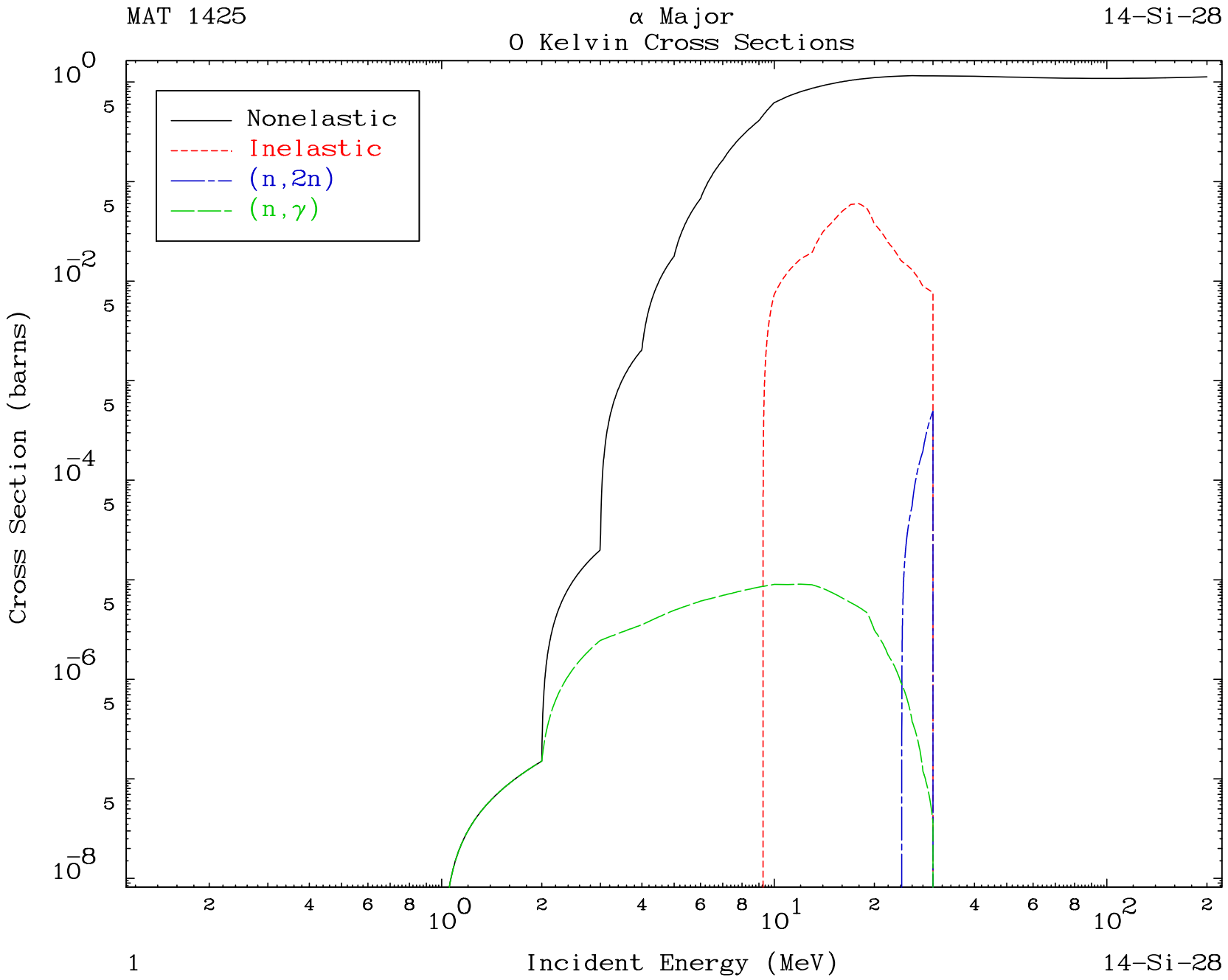
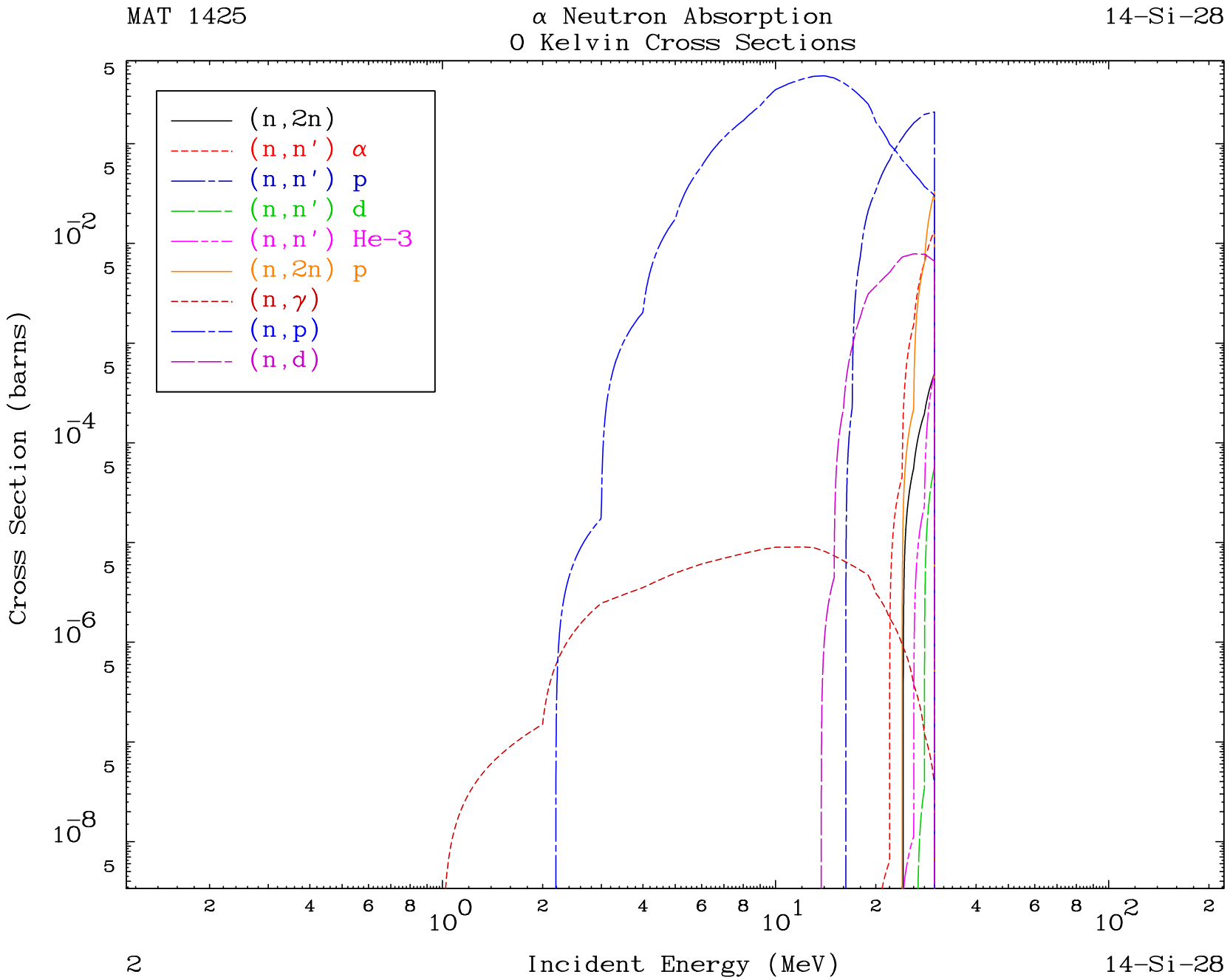
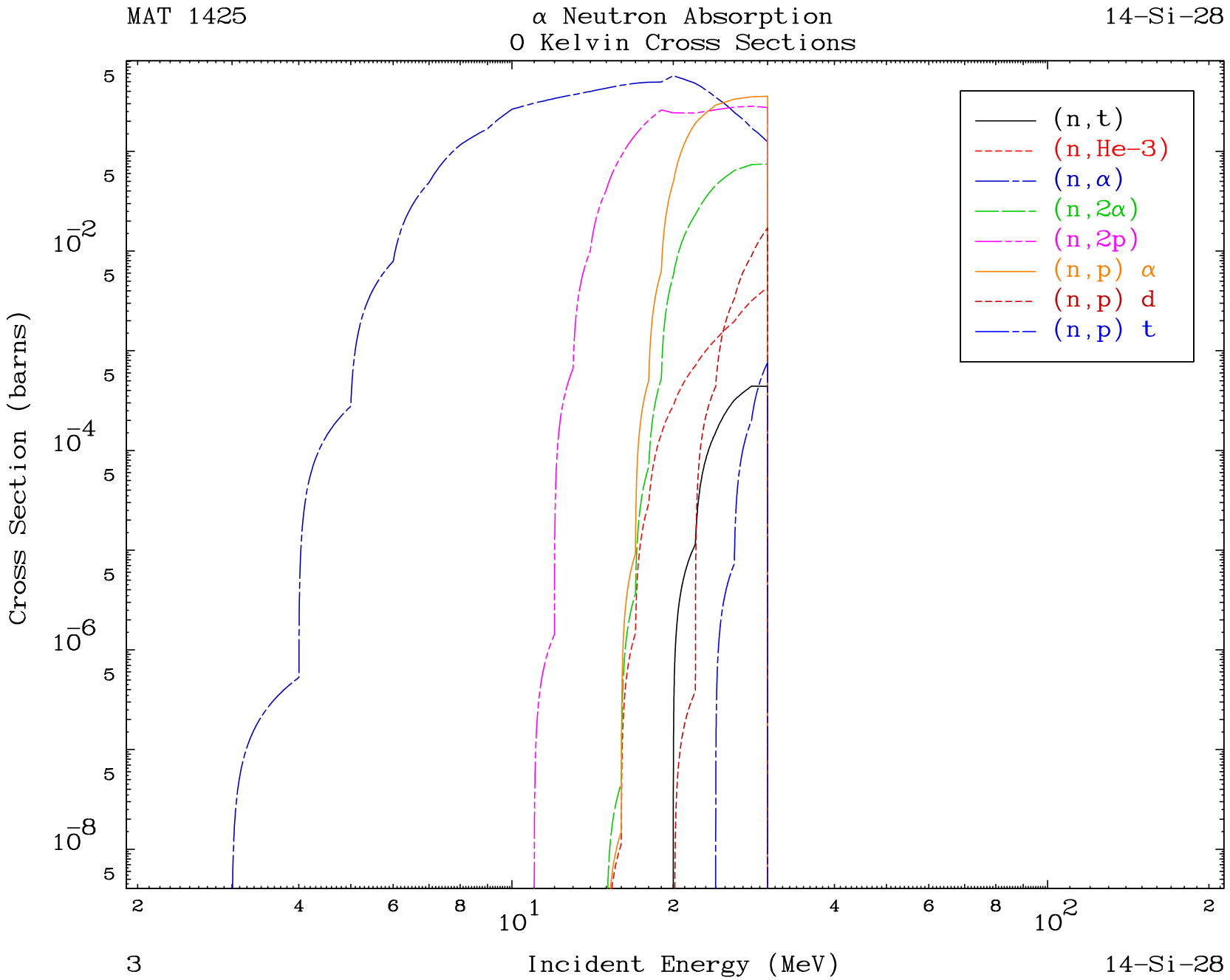
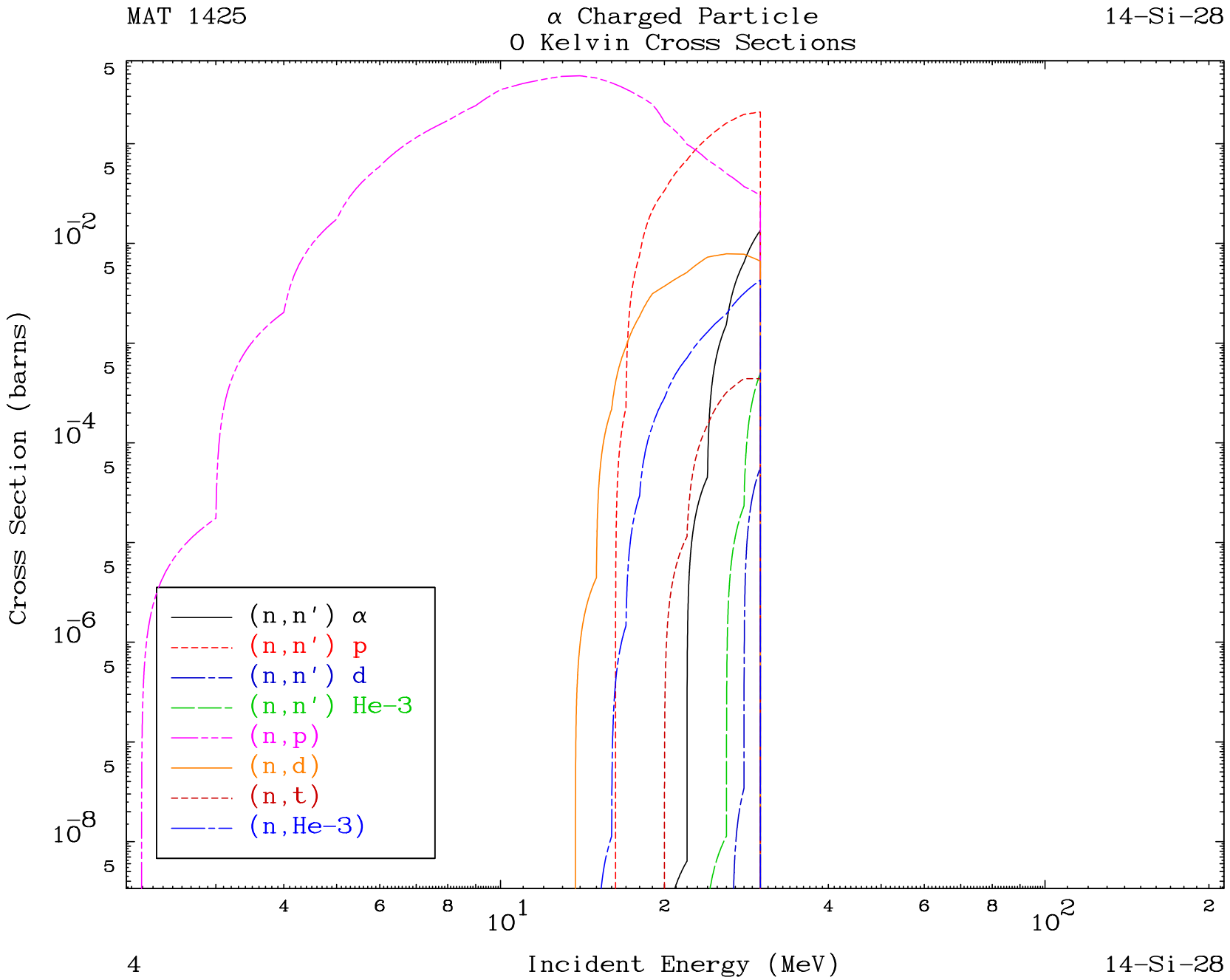
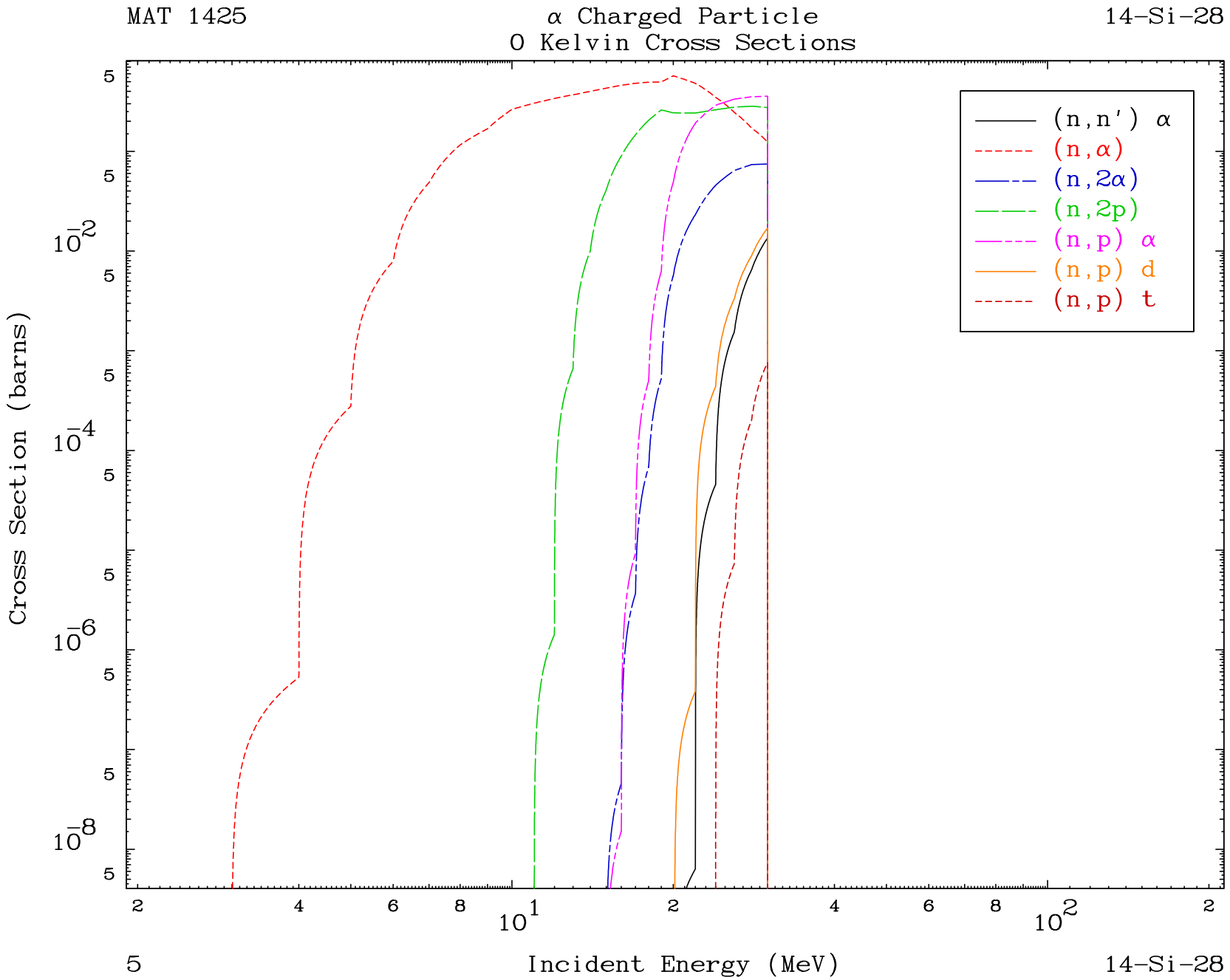
Press Mouse Button to Start

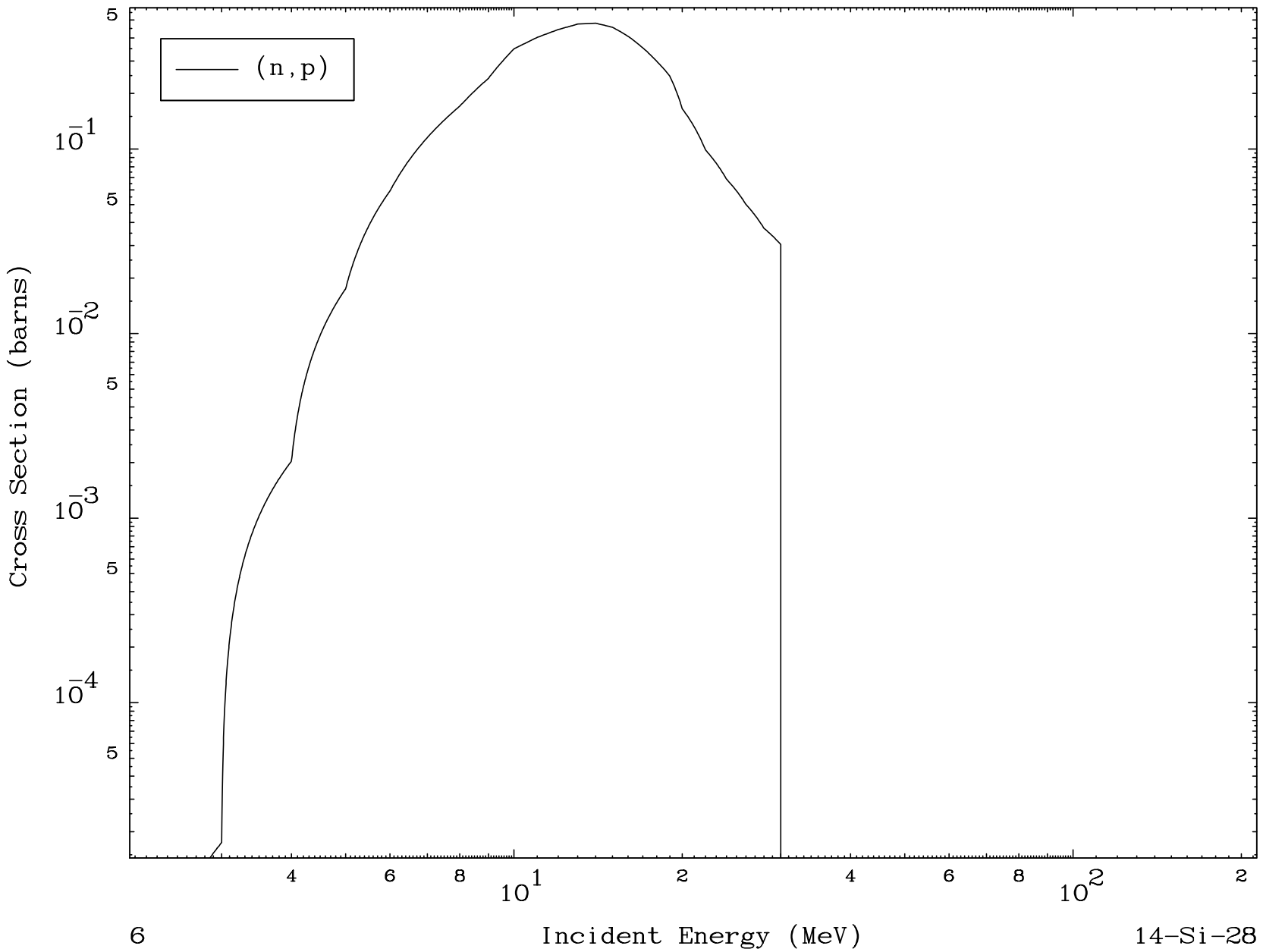

MAT 1425
α Major
14-Si-28
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
14-Si-28

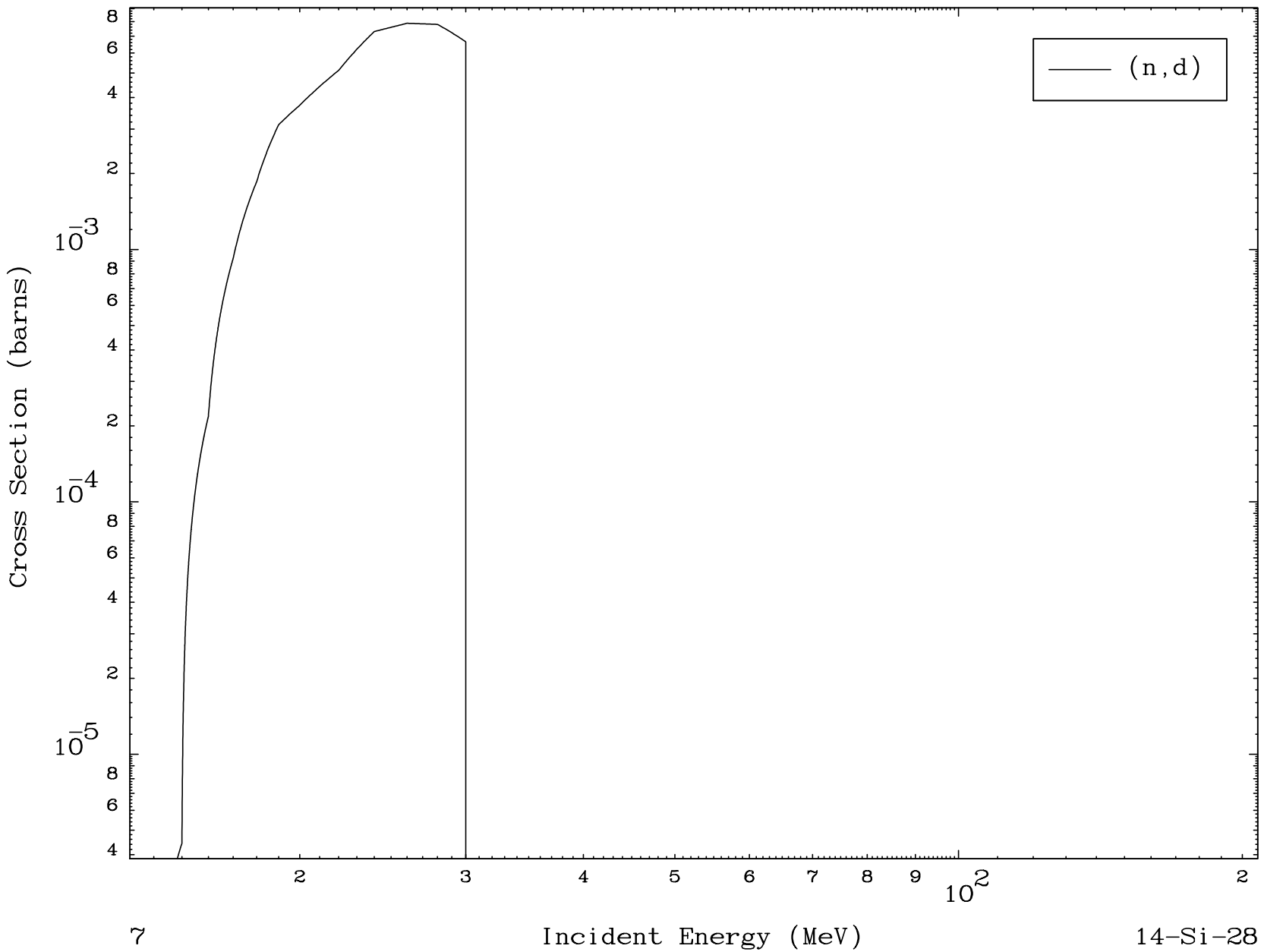

MAT 1425
α Neutron Absorption
0 Kelvin Cross Sections
14-Si-28
(n,2n)
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
2
14-Si-28

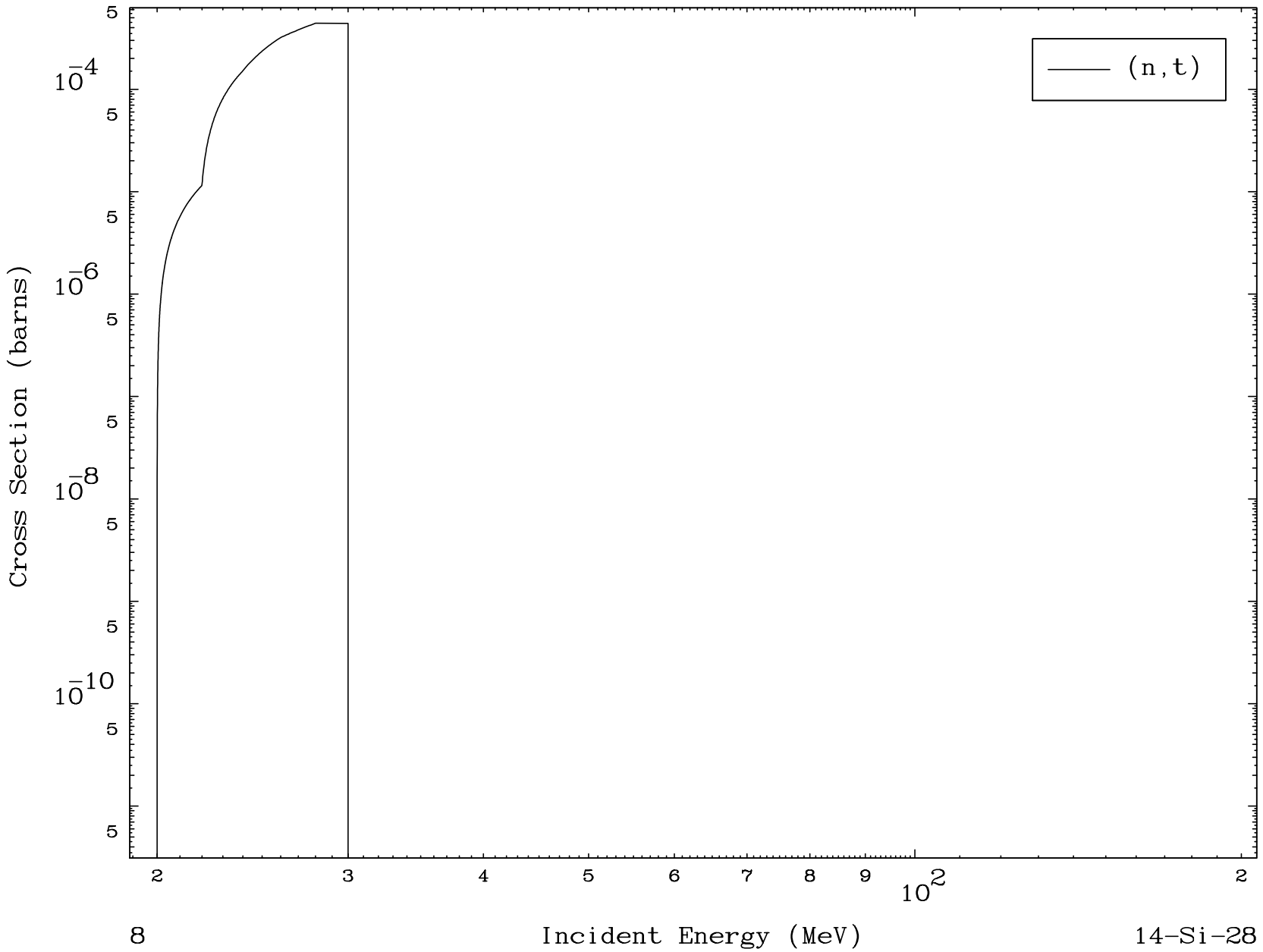

MAT 1425
α Neutron Absorption
0 Kelvin Cross Sections
14-Si-28
Cross Section (barns)
Incident Energy (MeV)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
3
14-Si-28

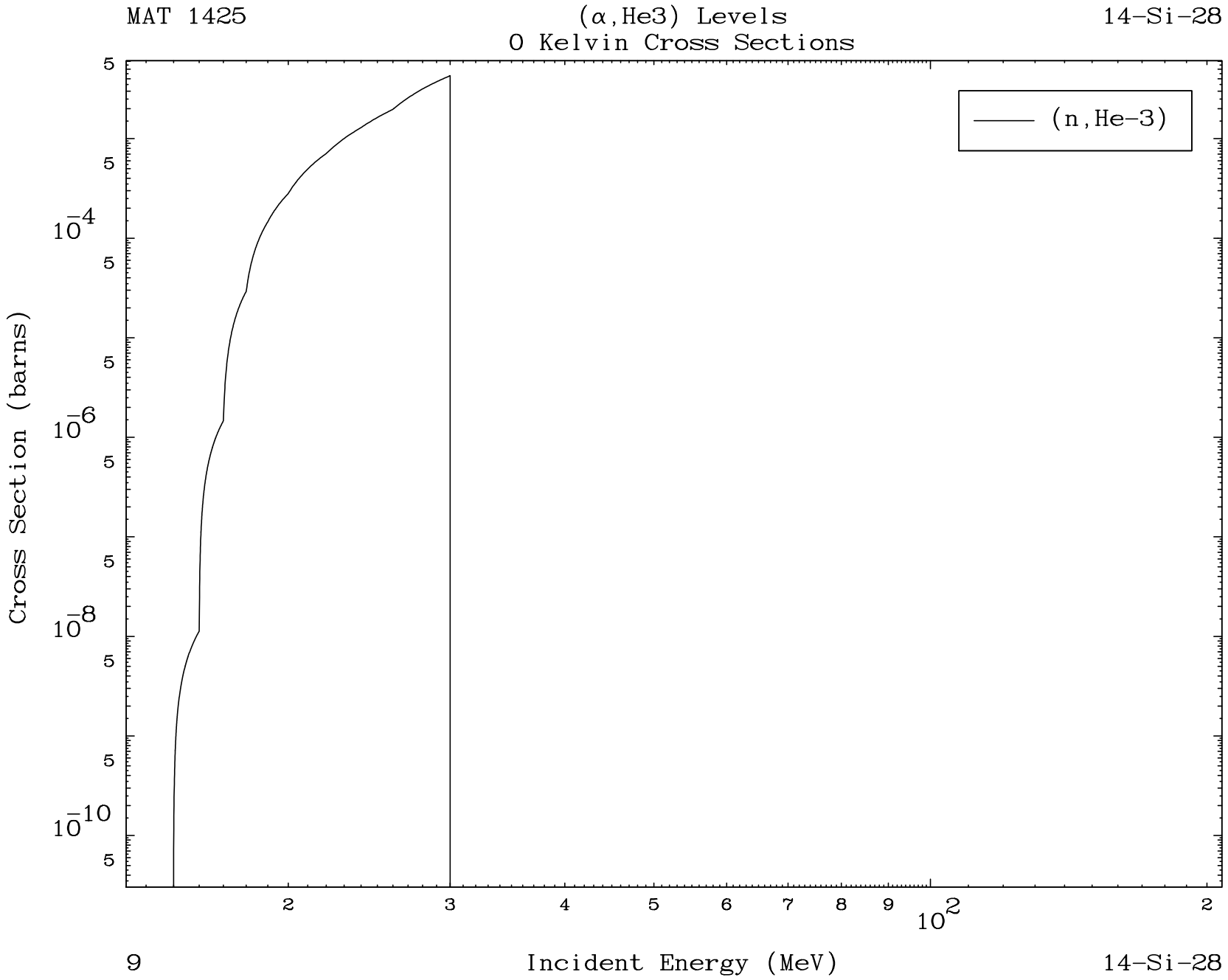

MAT 1425
α Charged Particle
0 Kelvin Cross Sections
14-Si-28
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,p)
(n,d)
(n,t)
(n,He-3)
4
14-Si-28

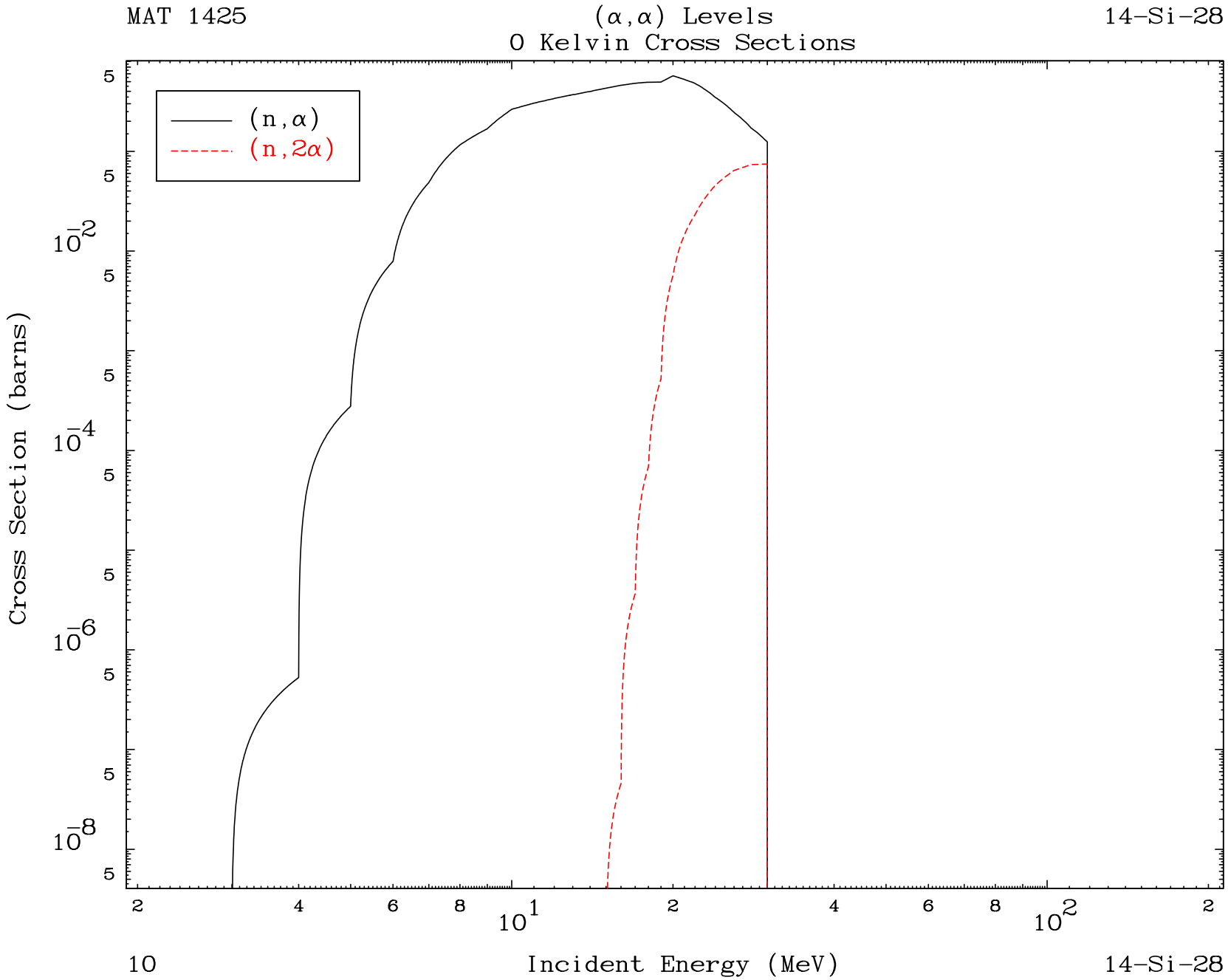

MAT 1425
α Charged Particle
0 Kelvin Cross Sections
14-Si-28
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t

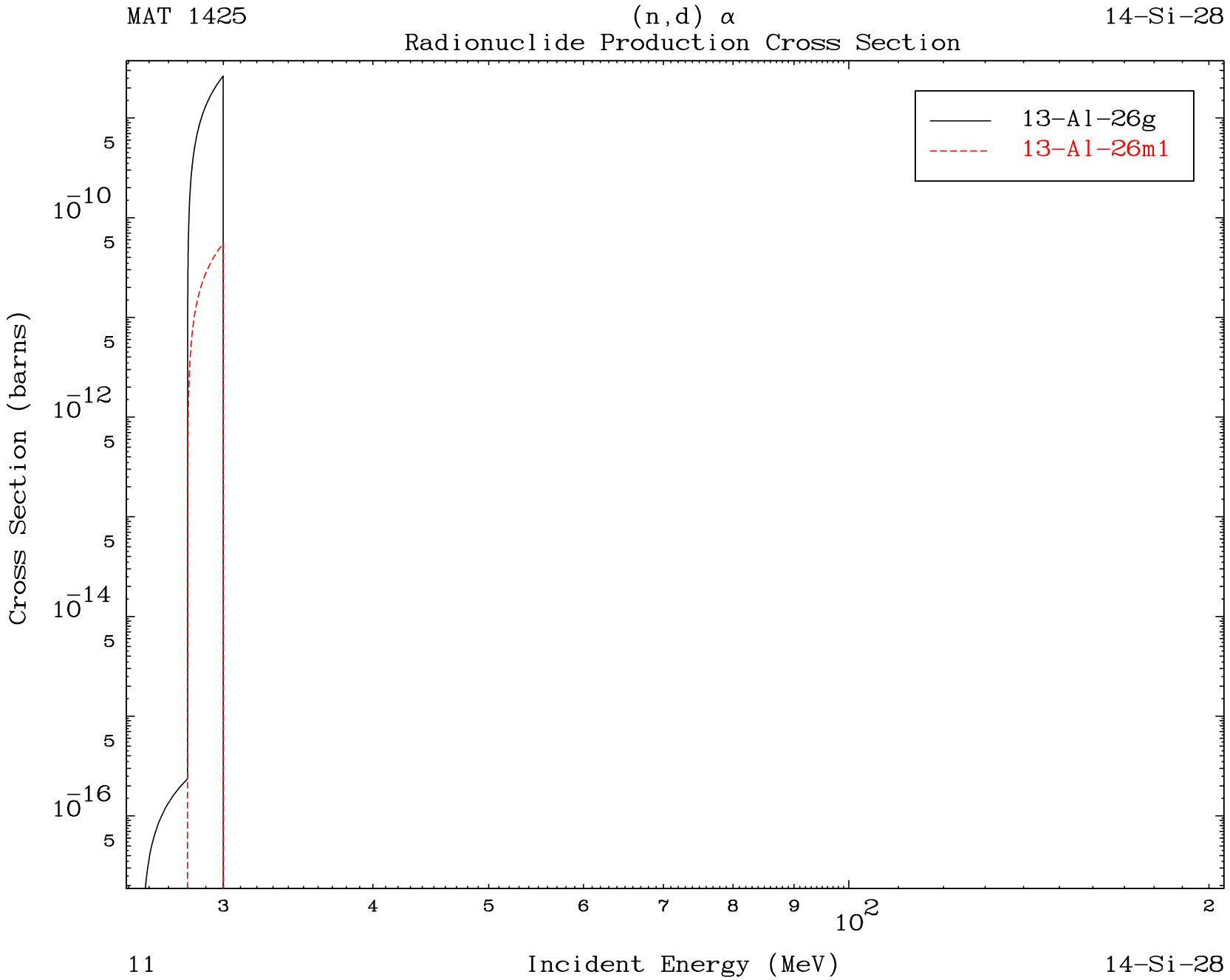

0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
5
10-1
5
10-2
5
10-3
5
10-4
5
4
6
8
10 1
2
4
6
8
10 2
2
Incident Energy (MeV)


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


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


MAT 1425
(α,He3) Levels
14-Si-28
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
14-Si-28


MAT 1425
(α,α) Levels
14-Si-28
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
14-Si-28


MAT 1425
(n,d) α
14-Si-28
Radionuclide Production Cross Section
13-Al-26g
13-Al-26m1
Cross Section (barns)
10-10
10-12
10-14
10-16
5
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
14-Si-28