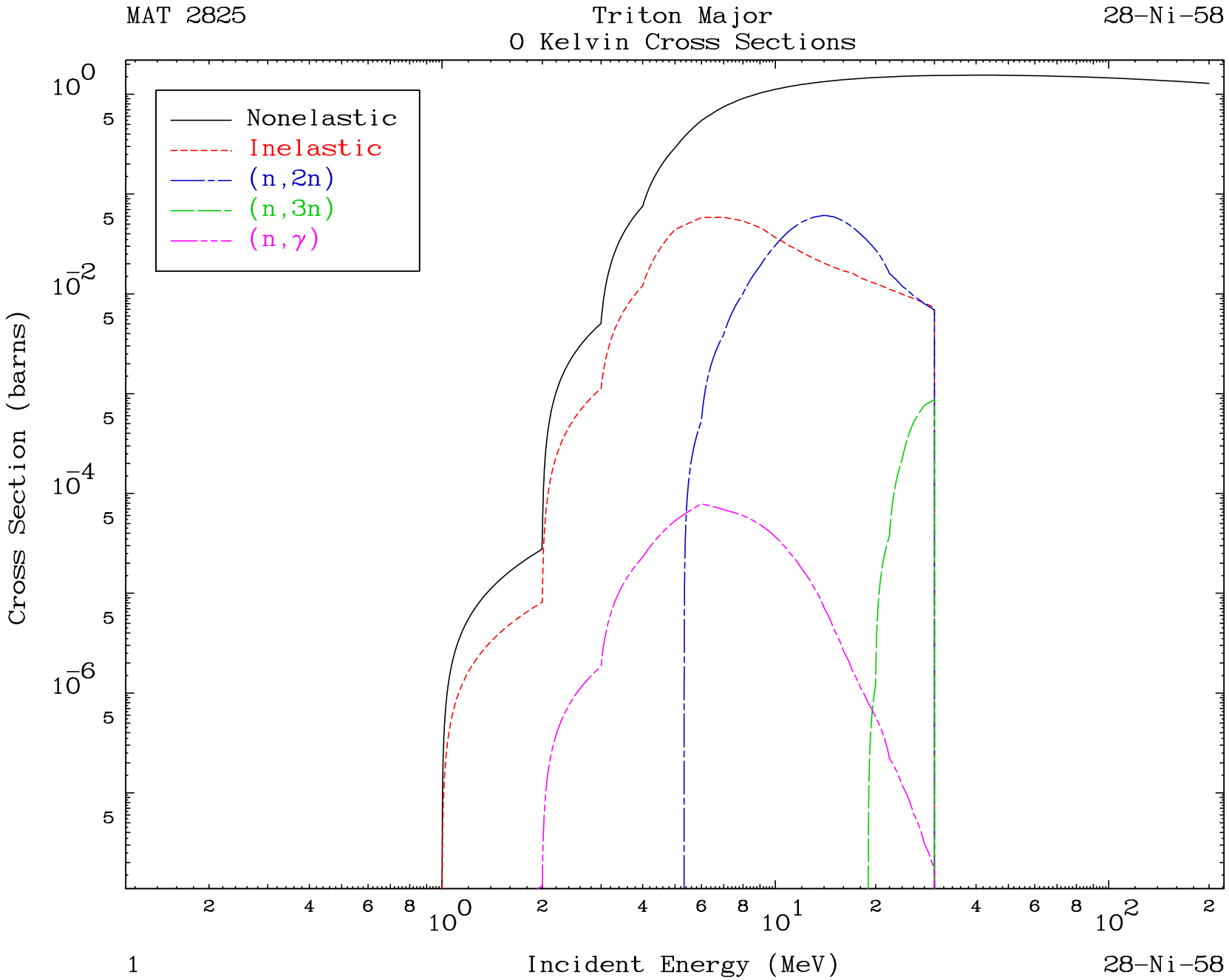
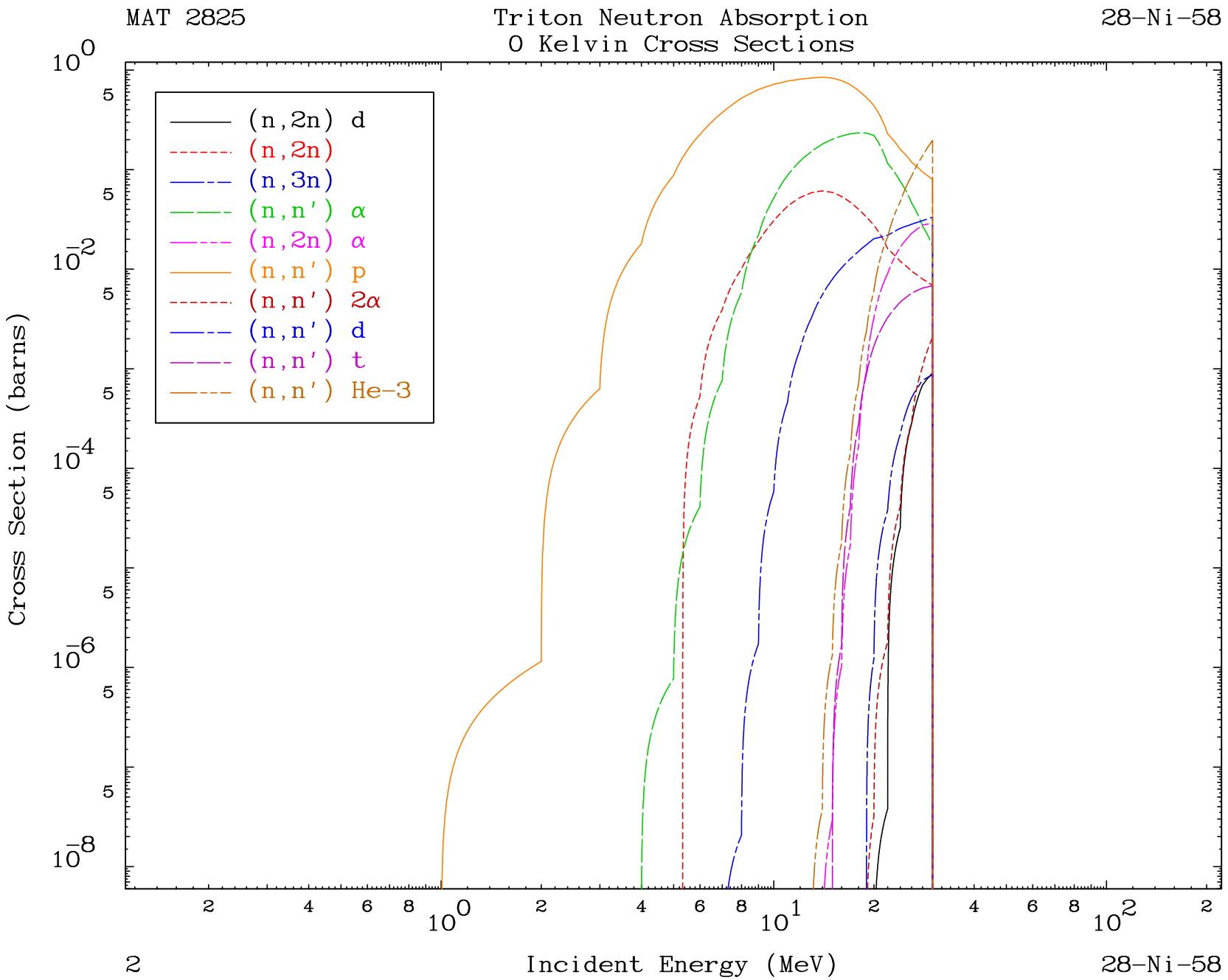
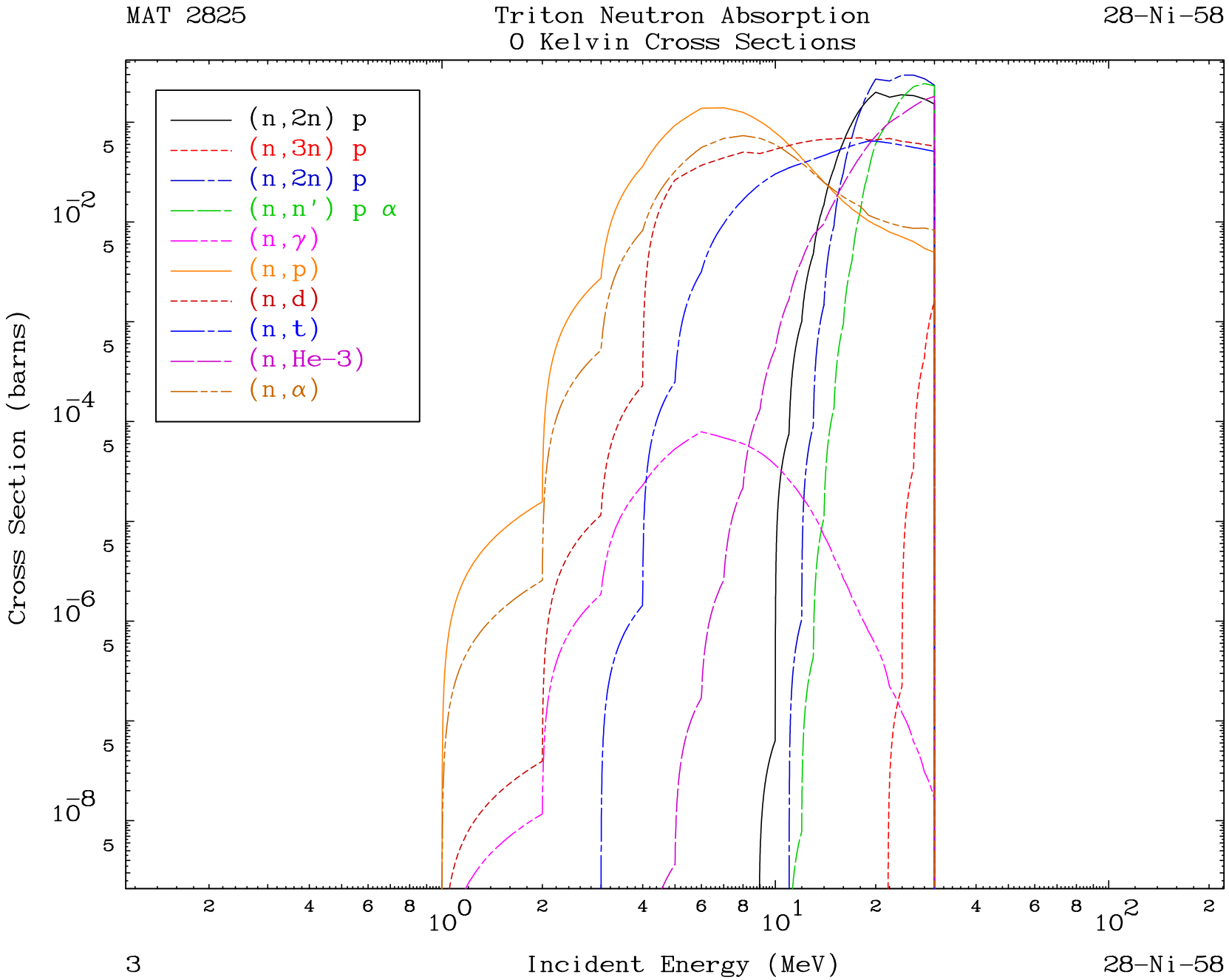
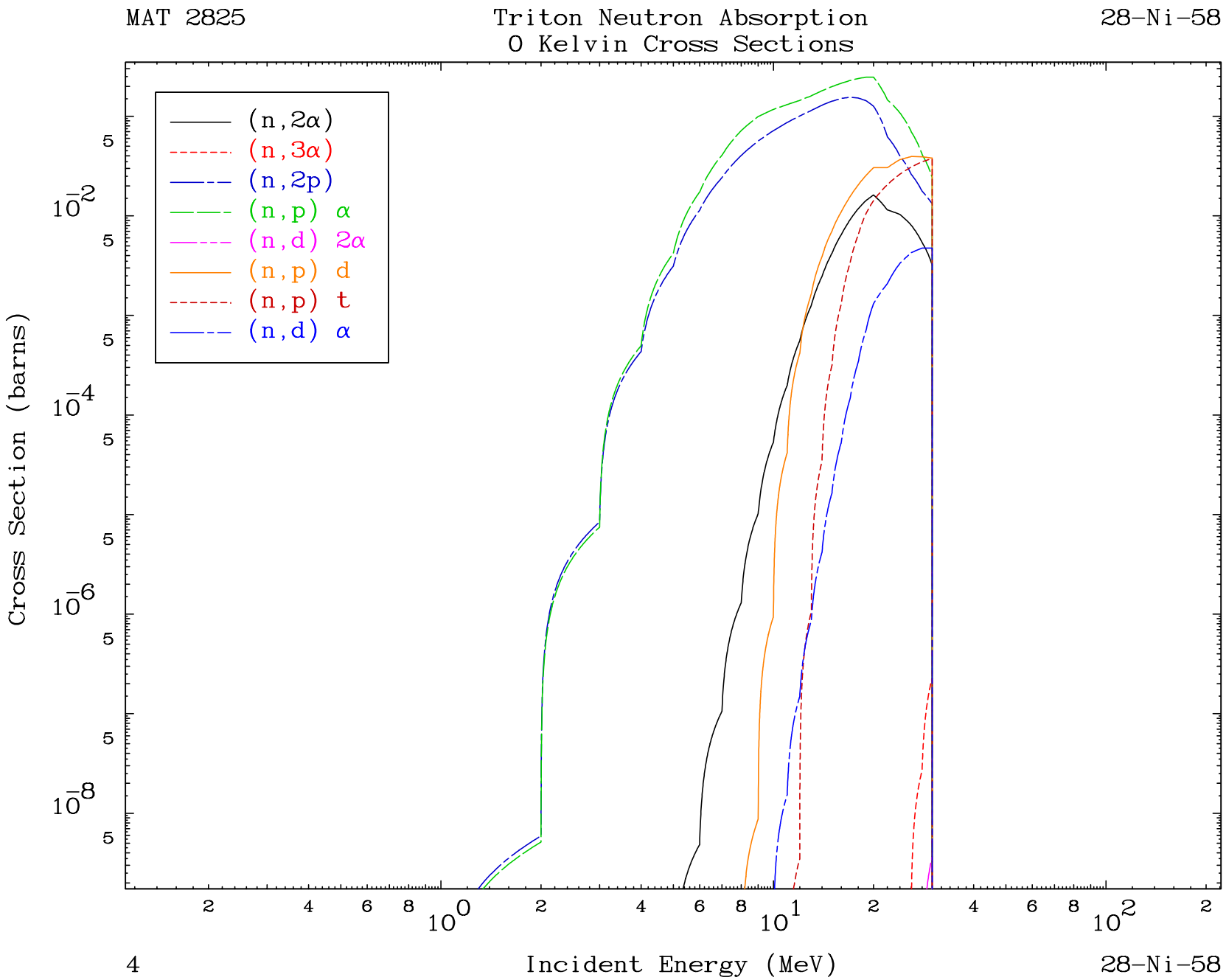
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

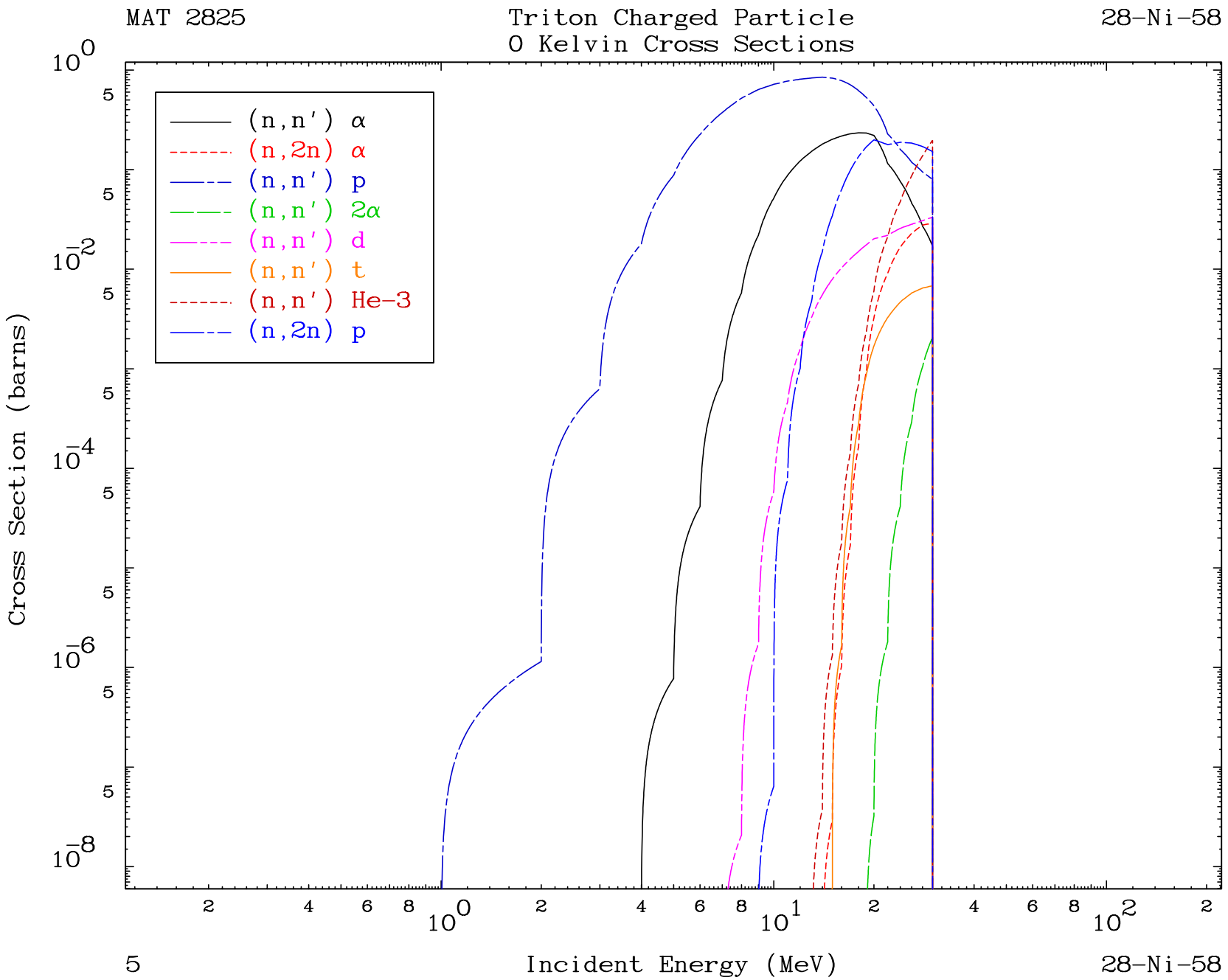
Press Mouse Button to Start

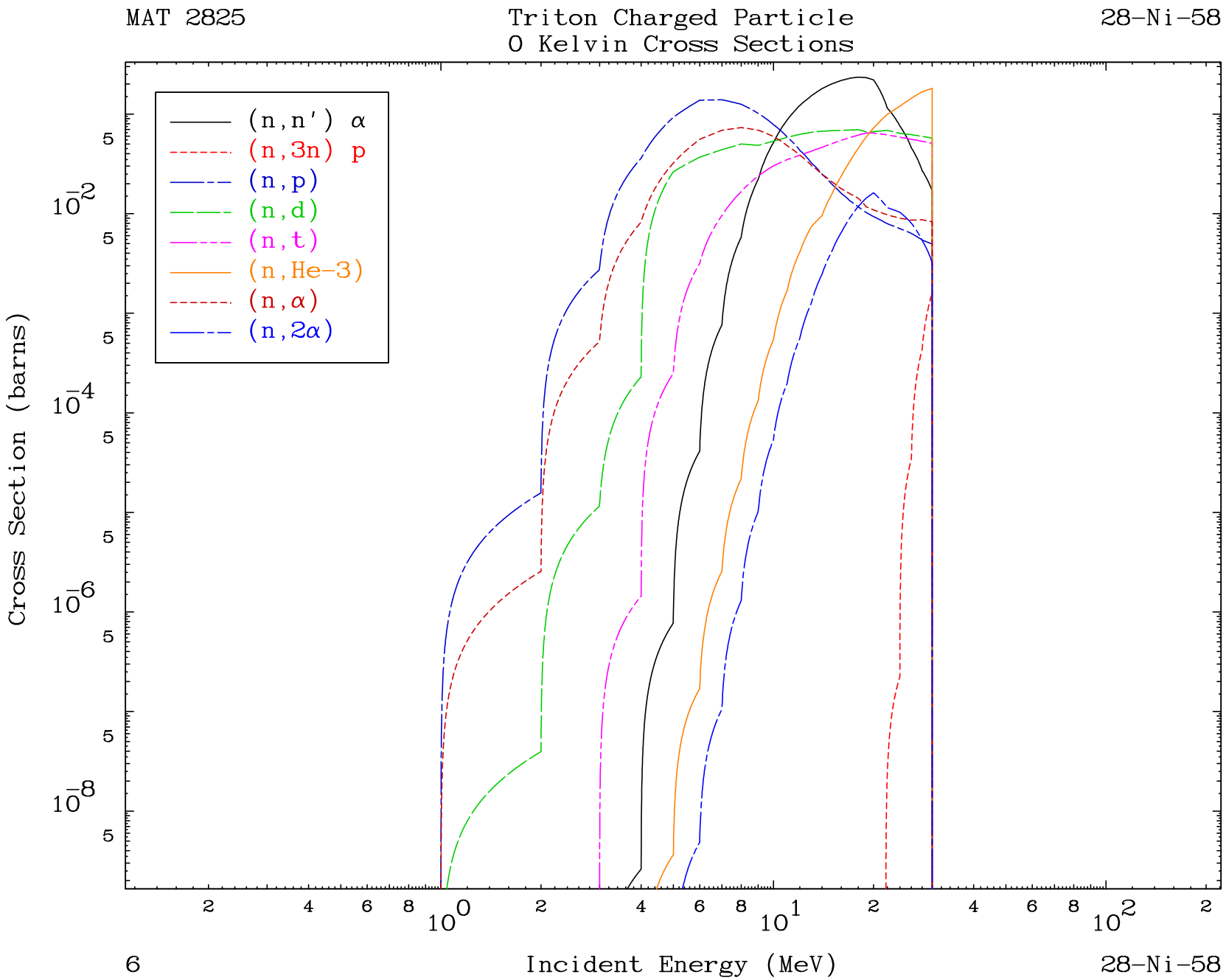

MAT 2825
Triton Major
28-Ni-58
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
28-Ni-58

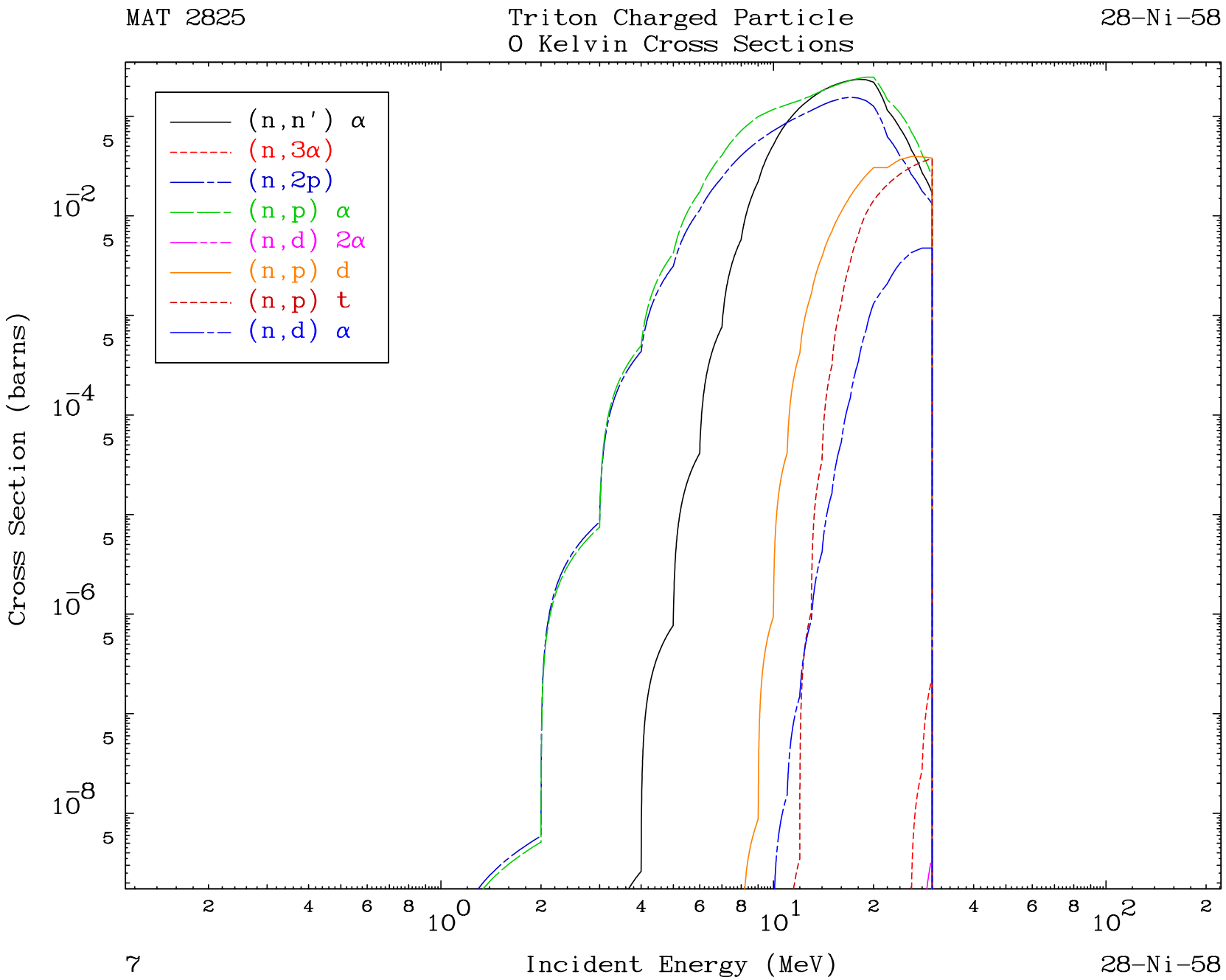

MAT 2825
Triton Neutron Absorption
0 Kelvin Cross Sections
28-Ni-58
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
28-Ni-58
2

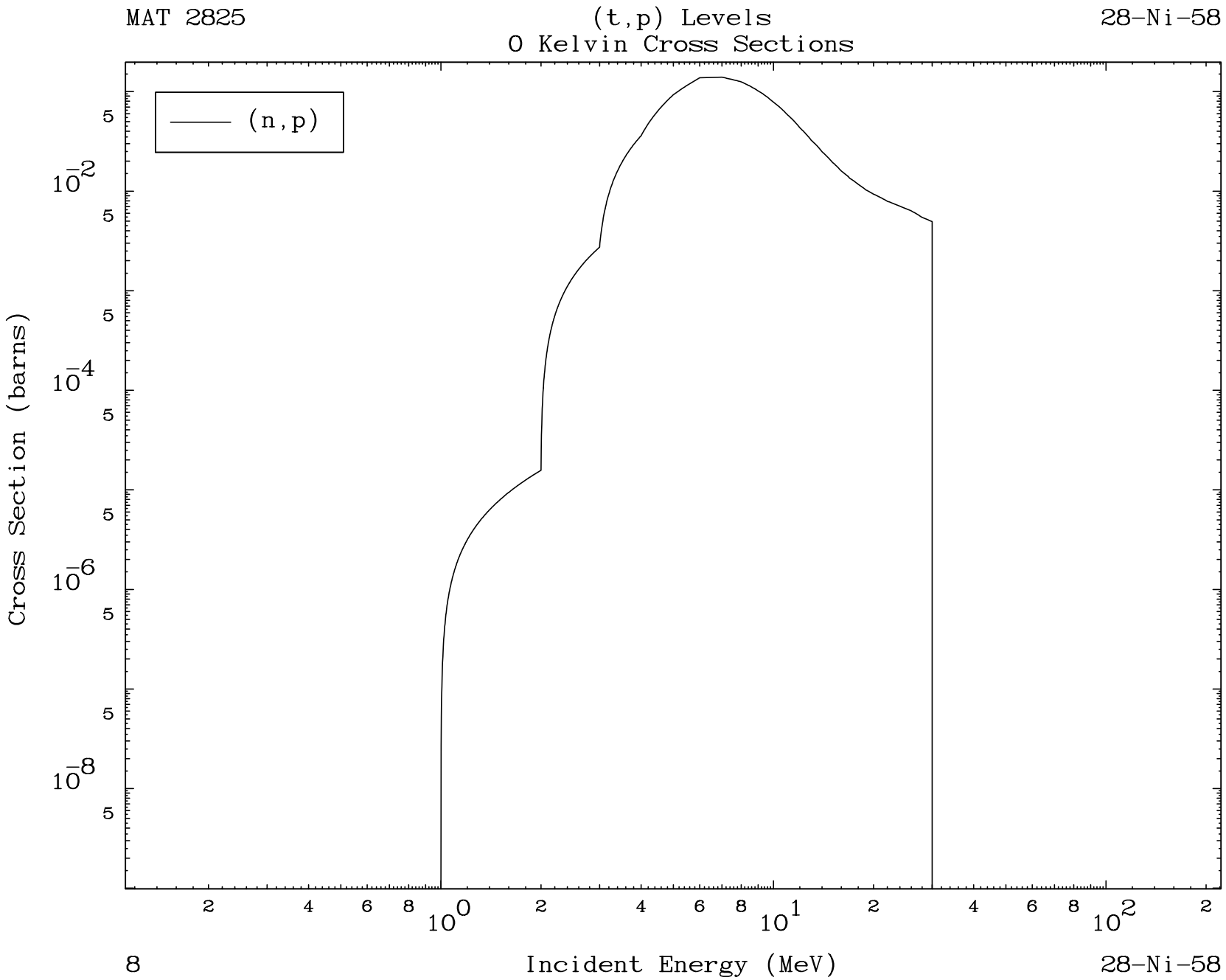

MAT 2825
Triton Neutron Absorption
0 Kelvin Cross Sections
28-Ni-58
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
3
28-Ni-58

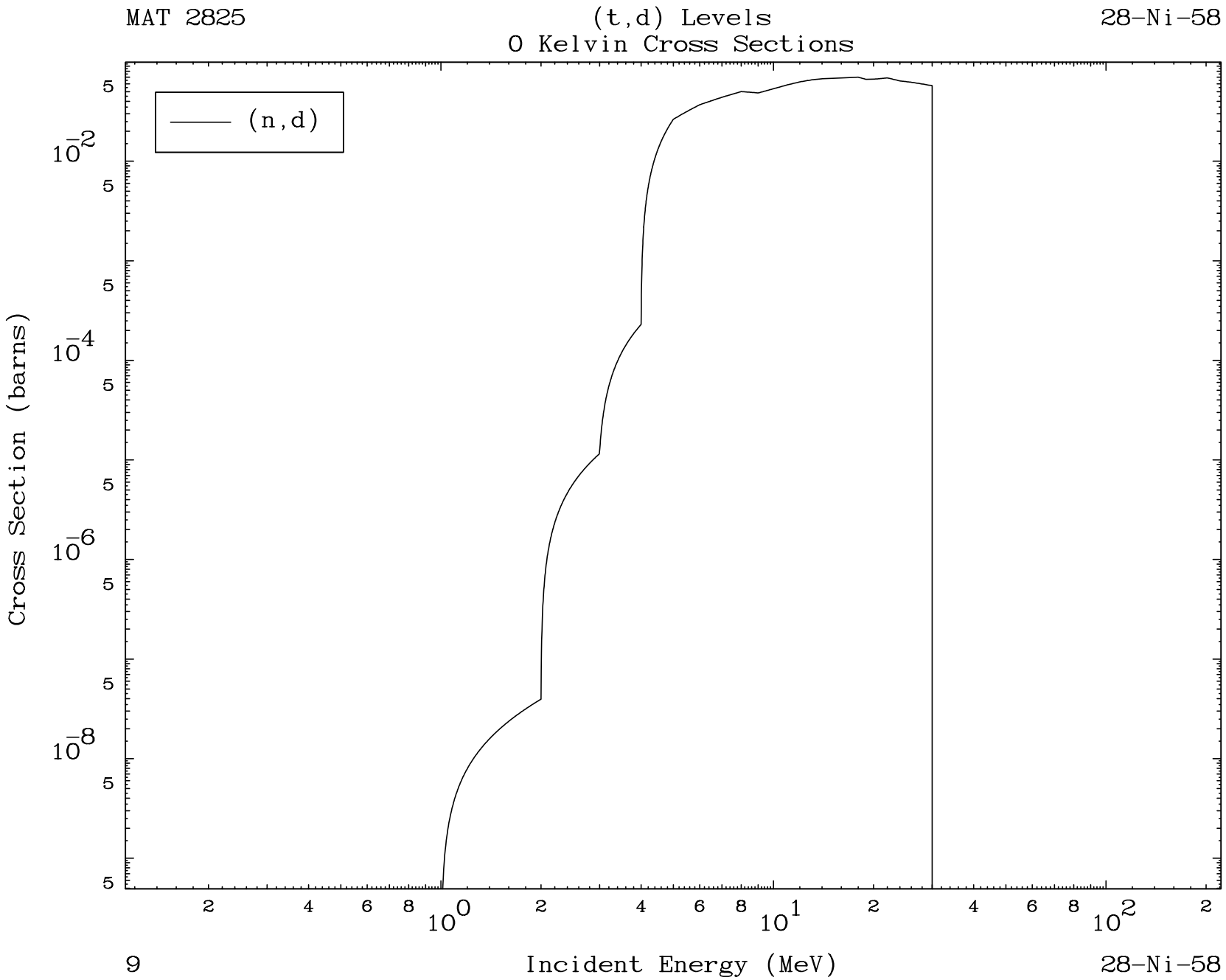

MAT 2825
Triton Neutron Absorption
0 Kelvin Cross Sections
28-Ni-58
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,d) 2α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
28-Ni-58

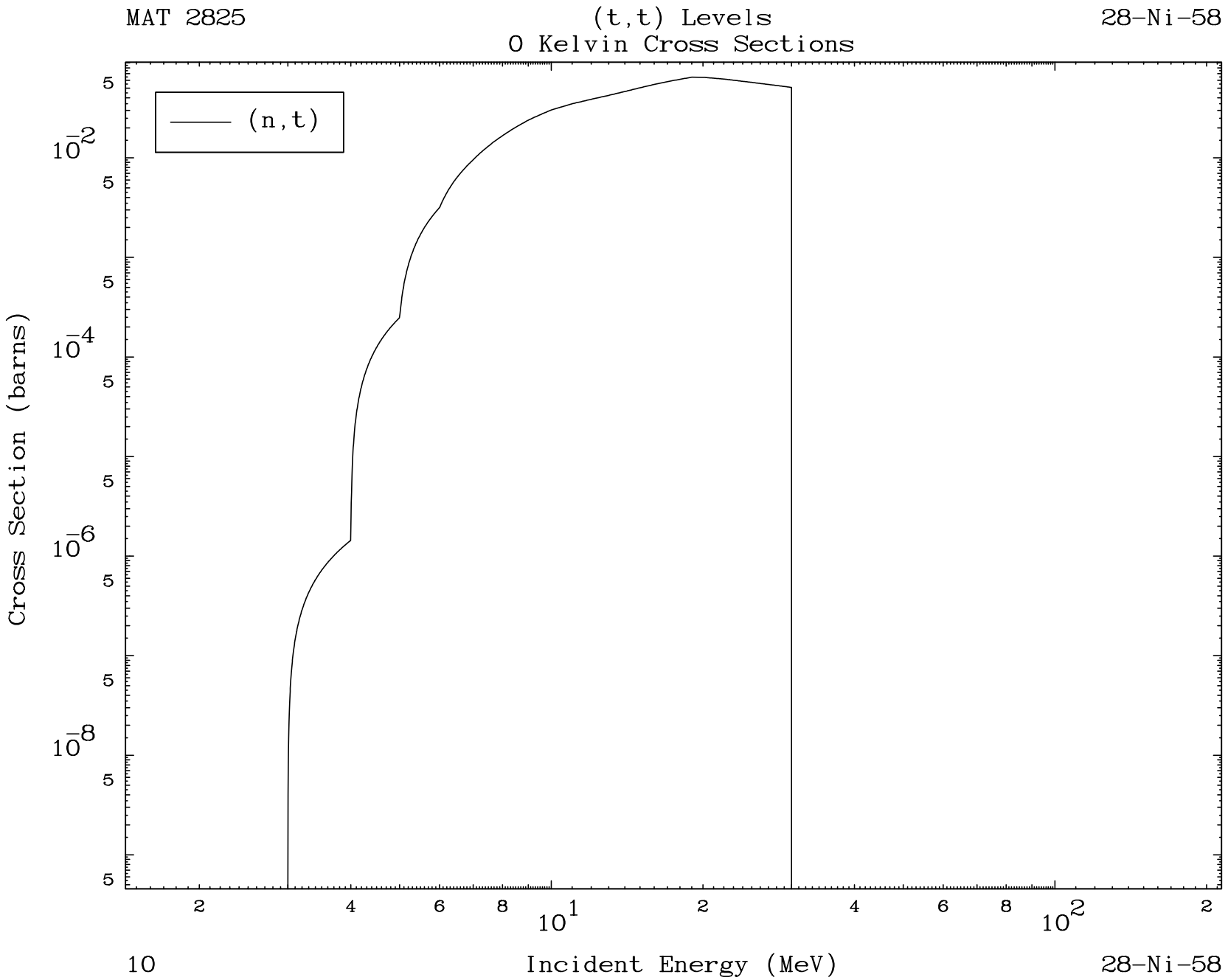

MAT 2825
Triton Charged Particle
0 Kelvin Cross Sections
28-Ni-58
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
5
28-Ni-58

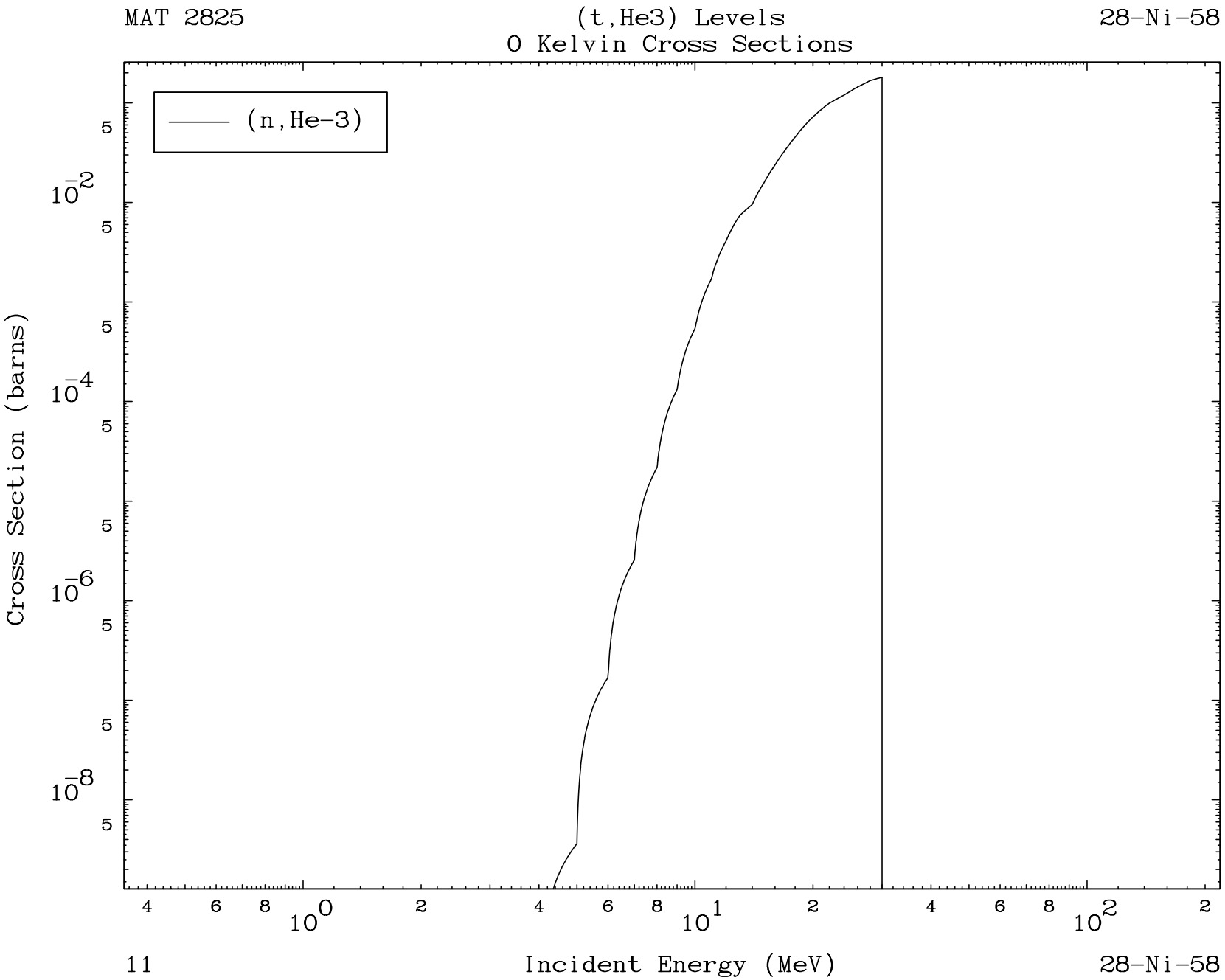

MAT 2825
Triton Charged Particle
0 Kelvin Cross Sections
28-Ni-58
(n,n') α
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
6
28-Ni-58

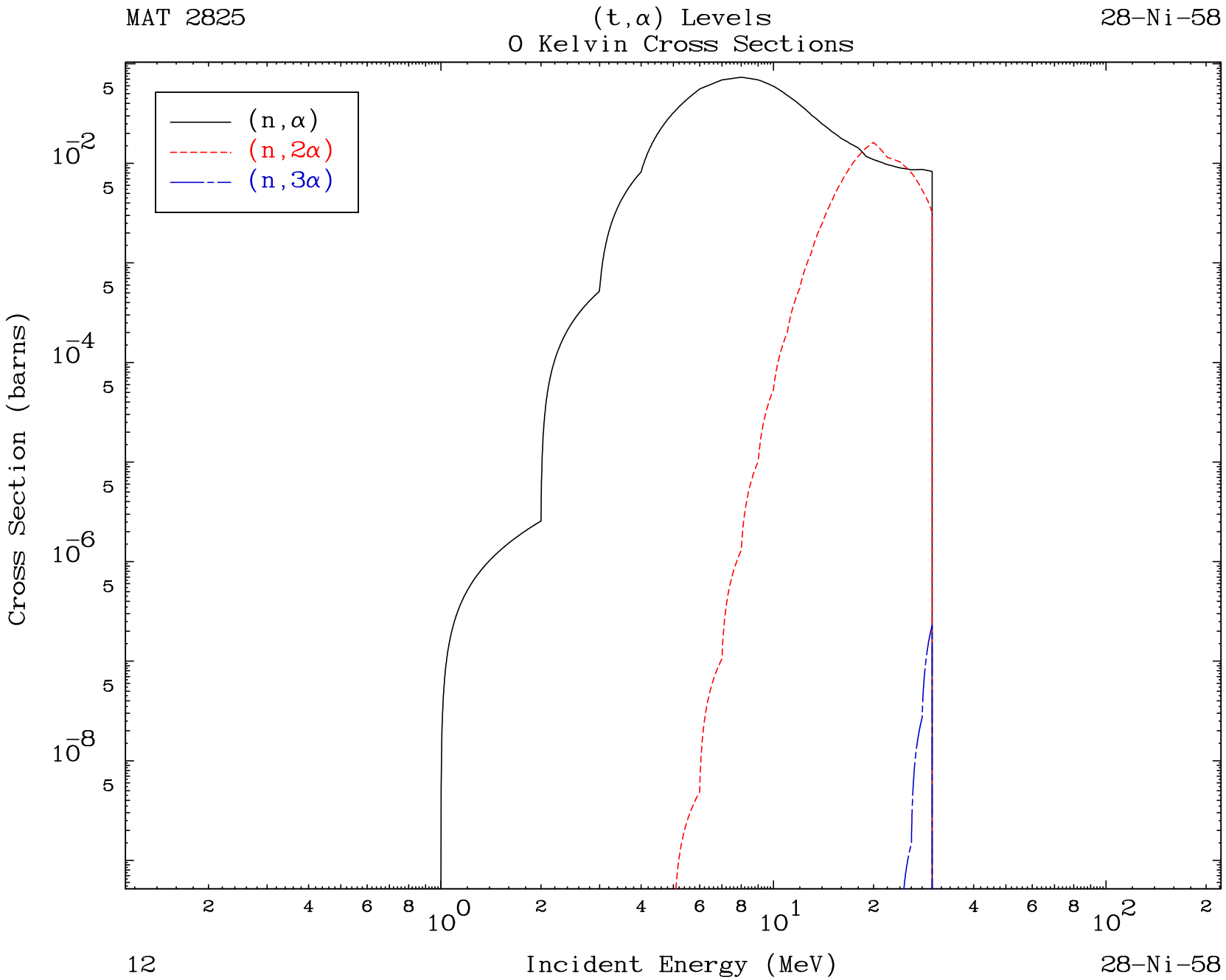

MAT 2825
Triton Charged Particle
0 Kelvin Cross Sections
28-Ni-58
(n,n') α
(n,3α)
(n,2p)
(n,p) α
(n,d) 2α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
7
28-Ni-58

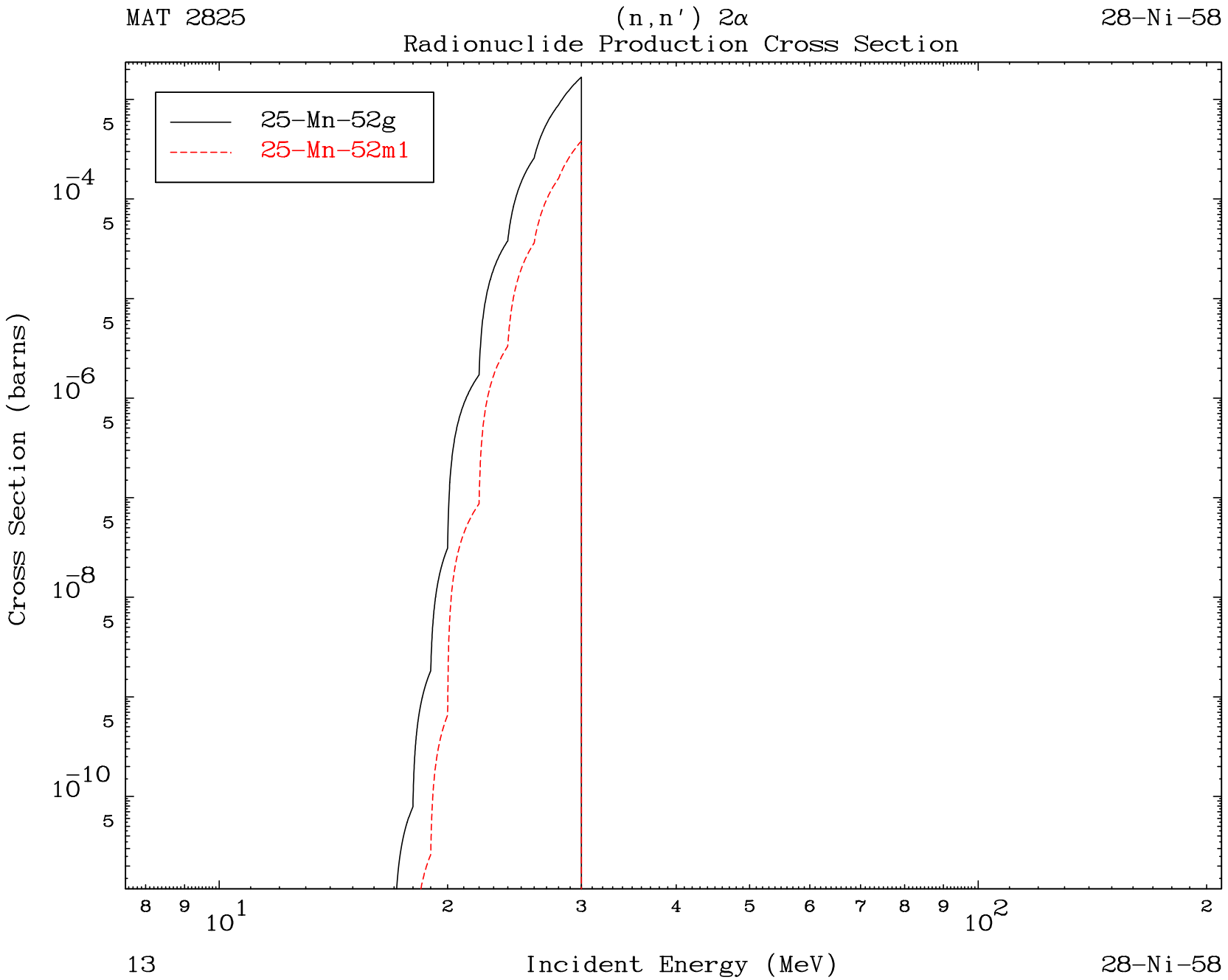

MAT 2825
(t,p) Levels
28-Ni-58
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
8
28-Ni-58

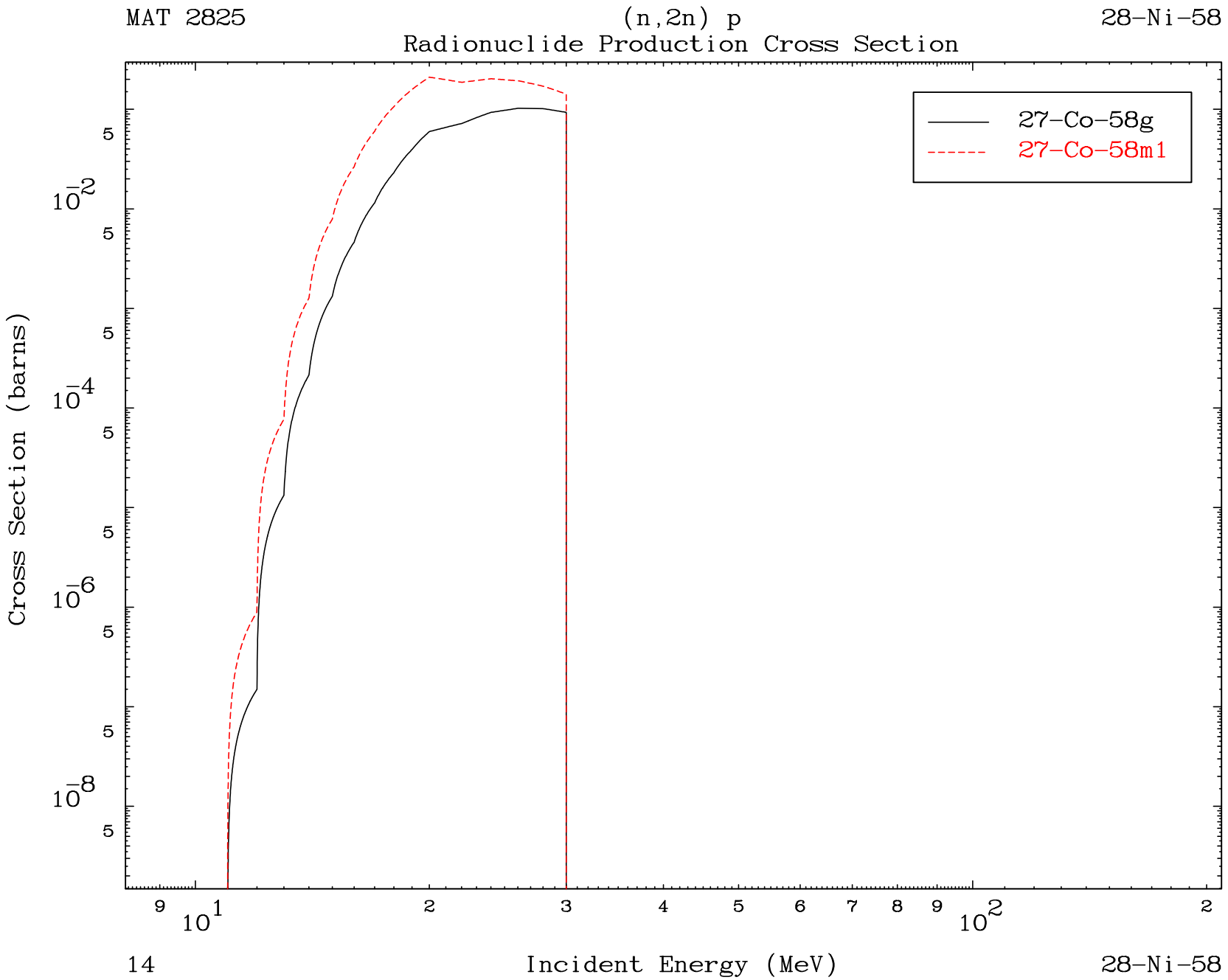

MAT 2825
(t,d) Levels
28-Ni-58
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
28-Ni-58

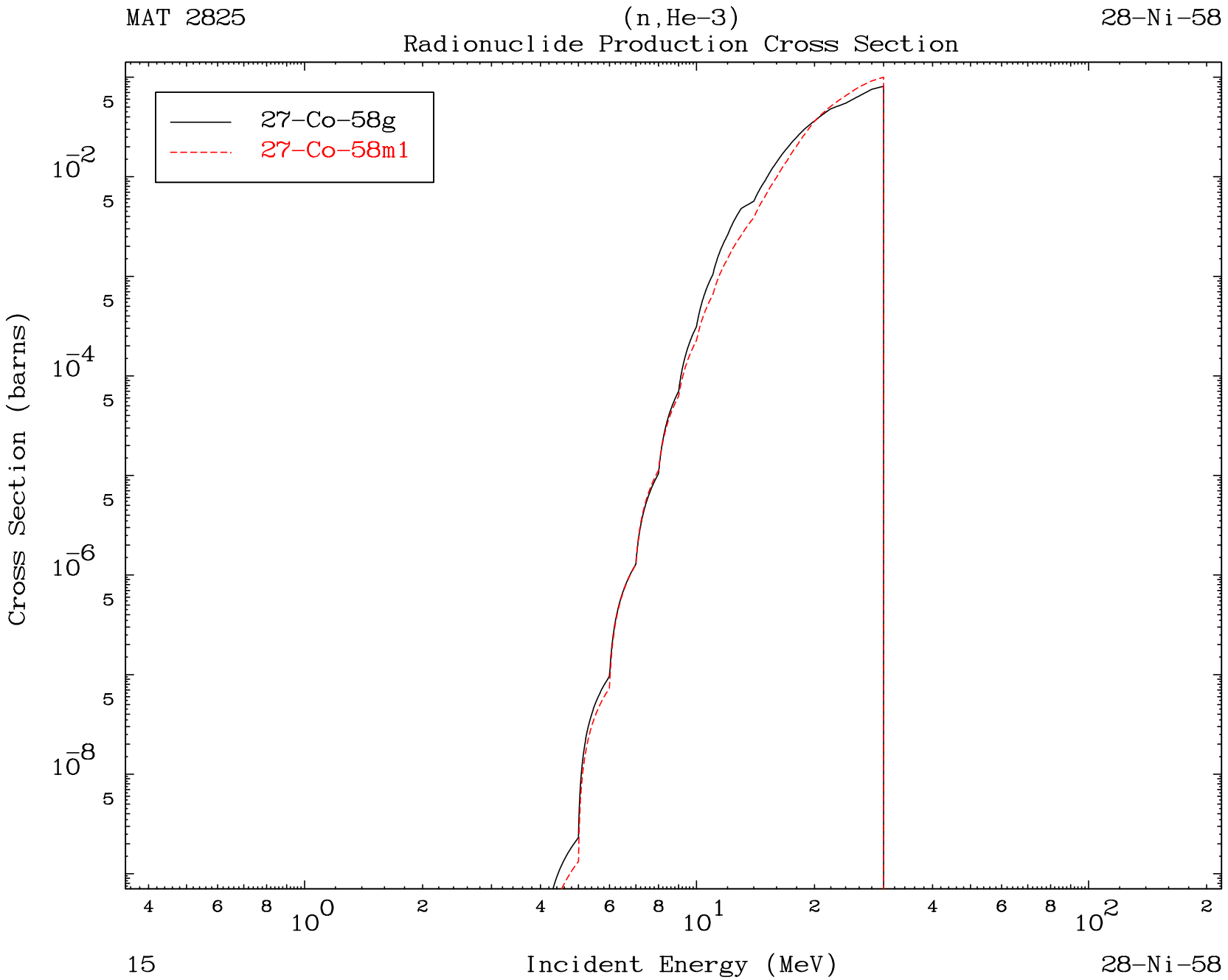

MAT 2825
(t,t) Levels
28-Ni-58
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
28-Ni-58

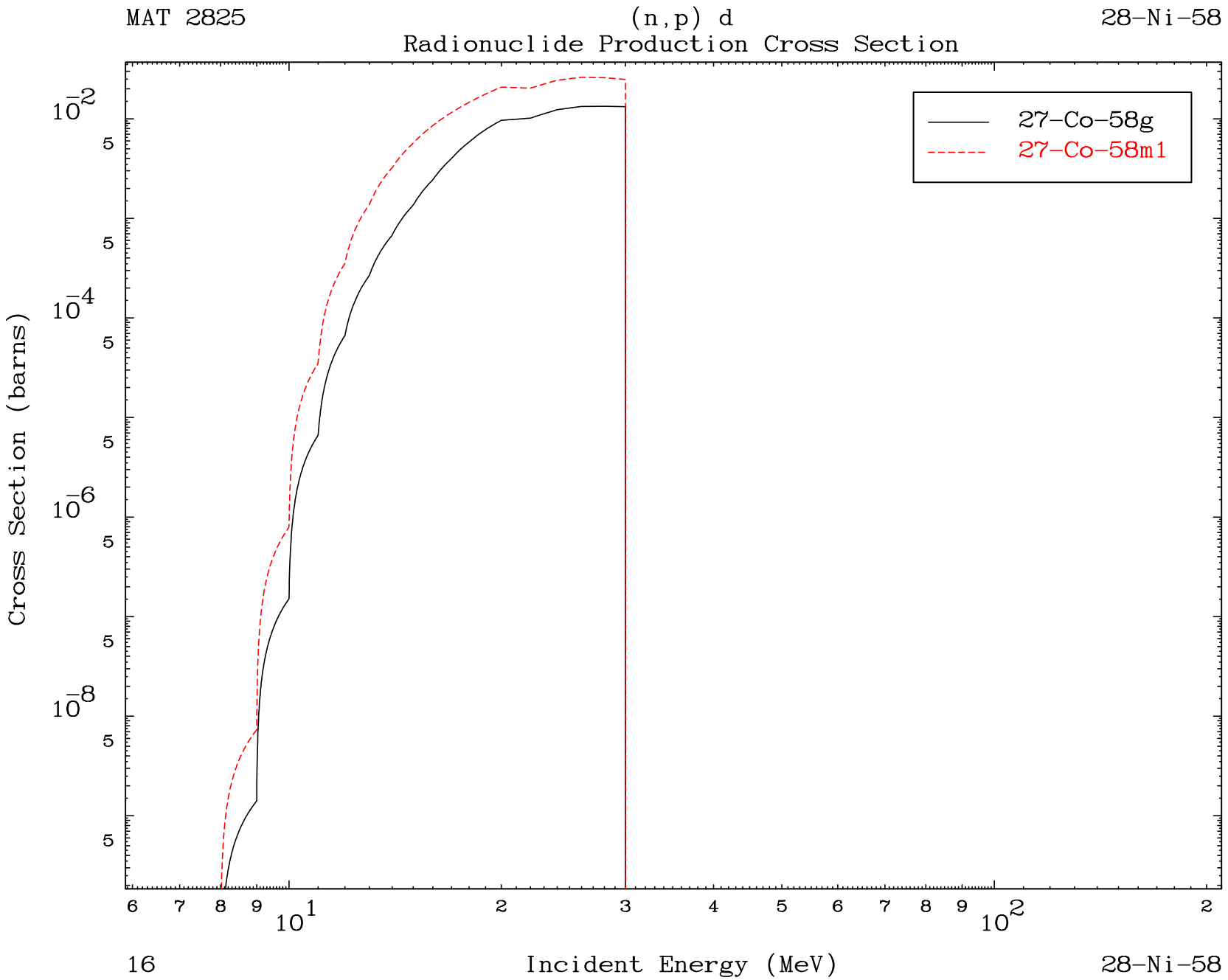

MAT 2825
(t,He3) Levels
28-Ni-58
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4 6 8 100 2 4 6 8 101 2 4 6 8 102 2
Incident Energy (MeV)
11
28-Ni-58


MAT 2825
(t,α) Levels
28-Ni-58
0 Kelvin Cross Sections
(n,α)
(n,2α)
(n,3α)
Cross Section (barns)
Incident Energy (MeV)
12
28-Ni-58


MAT 2825
(n,n') 2α
28-Ni-58
Radionuclide Production Cross Section
25-Mn-52g
25-Mn-52m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
13
28-Ni-58


MAT 2825
(n,2n) p
28-Ni-58
Radionuclide Production Cross Section
27-Co-58g
27-Co-58m1
Cross Section (barns)
10-2
10-4
10-6
10-8
9
10 1
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
28-Ni-58


MAT 2825
(n,He-3)
28-Ni-58
Radionuclide Production Cross Section
27-Co-58g
27-Co-58m1
Cross Section (barns)
Incident Energy (MeV)
15
28-Ni-58


MAT 2825
(n,p) d
28-Ni-58
Radionuclide Production Cross Section
27-Co-58g
27-Co-58m1
Cross Section (barns)
Incident Energy (MeV)
16
28-Ni-58