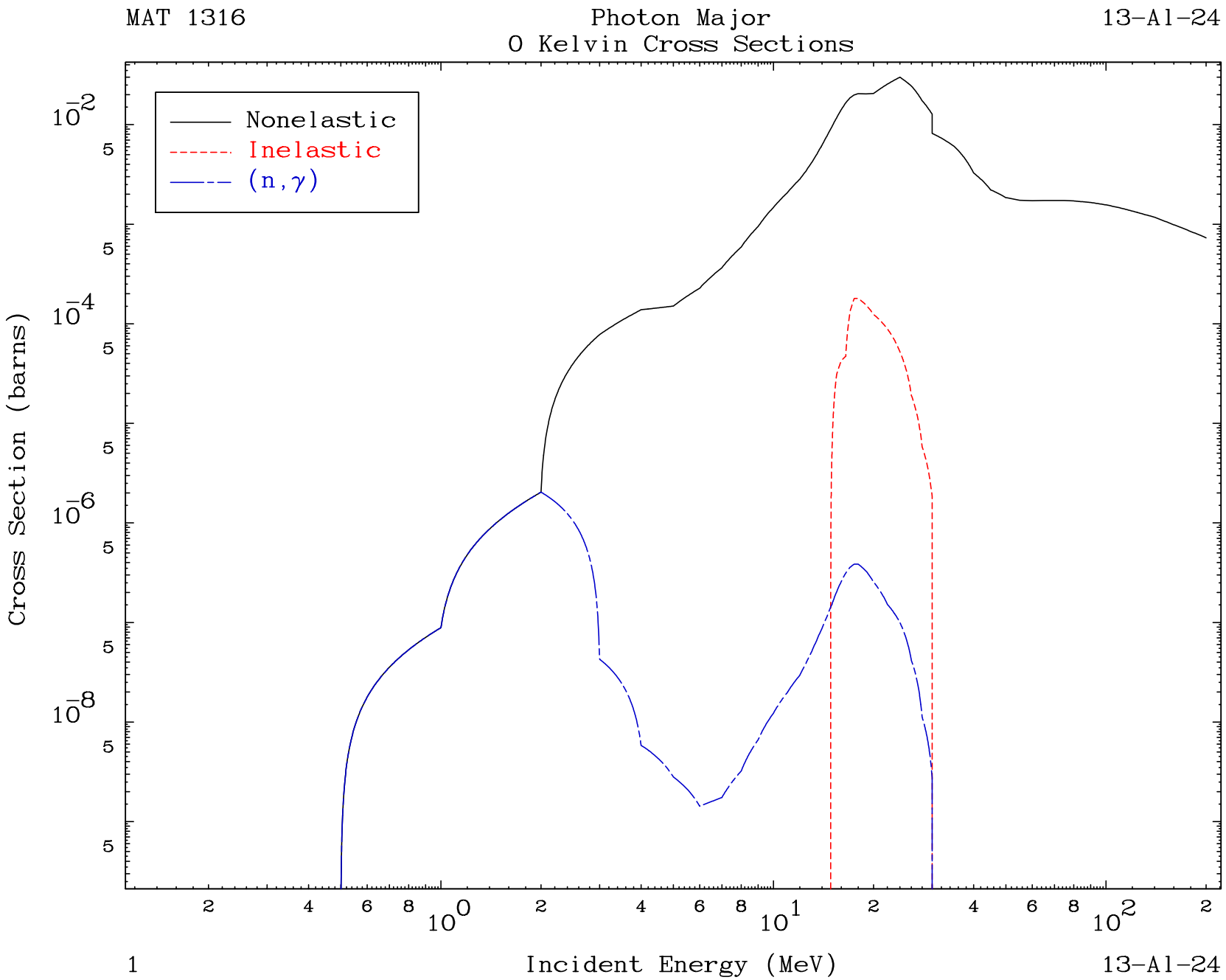
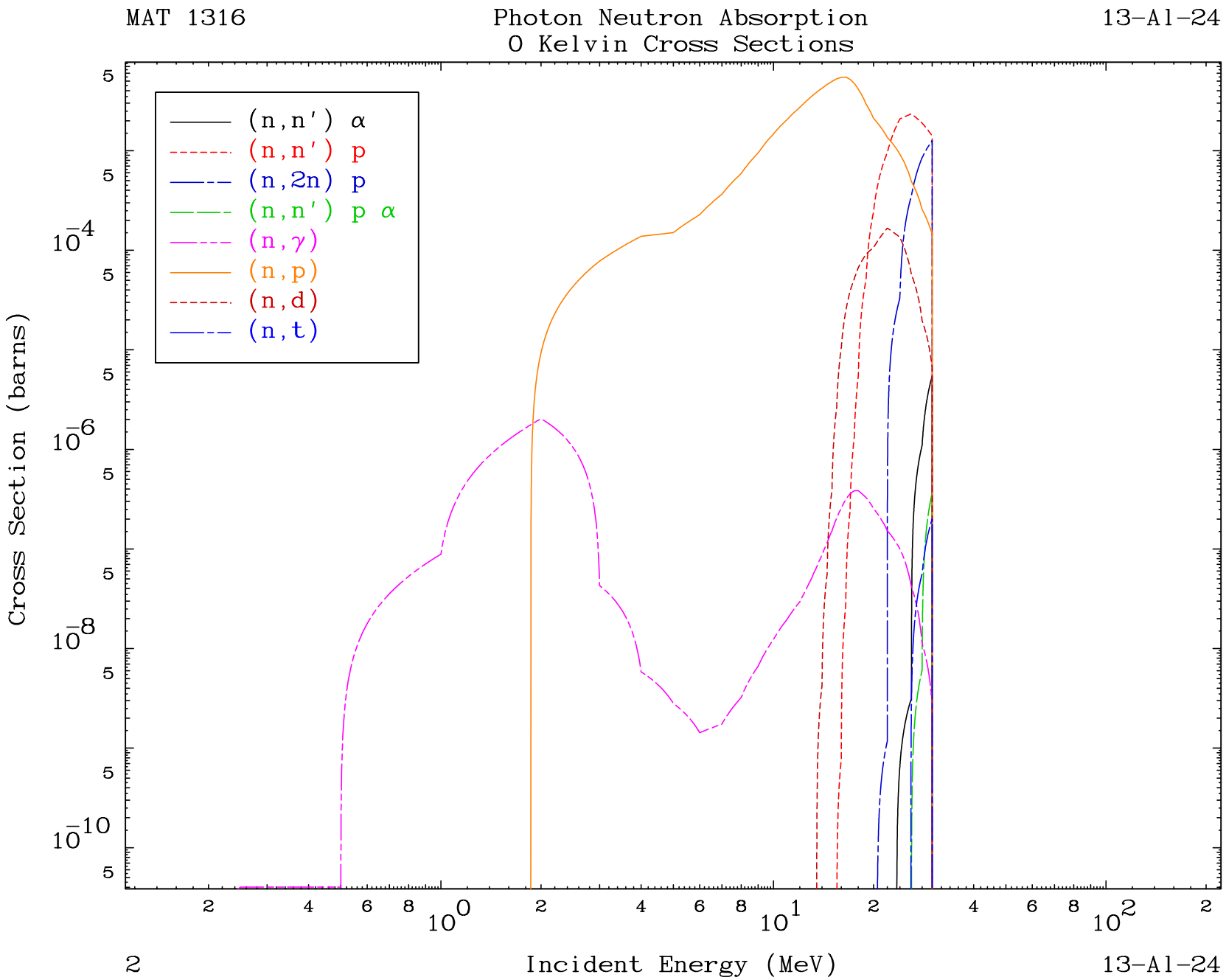
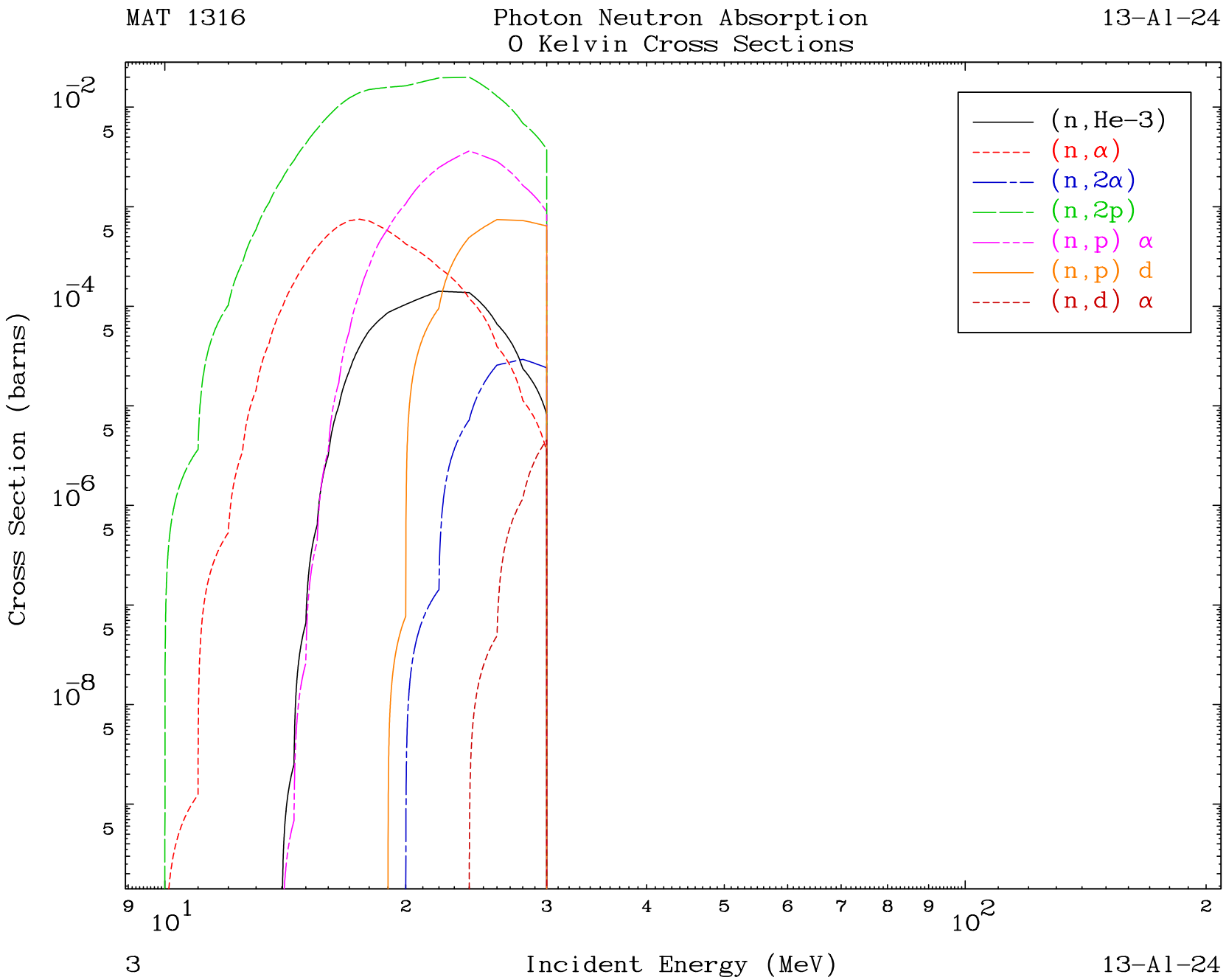
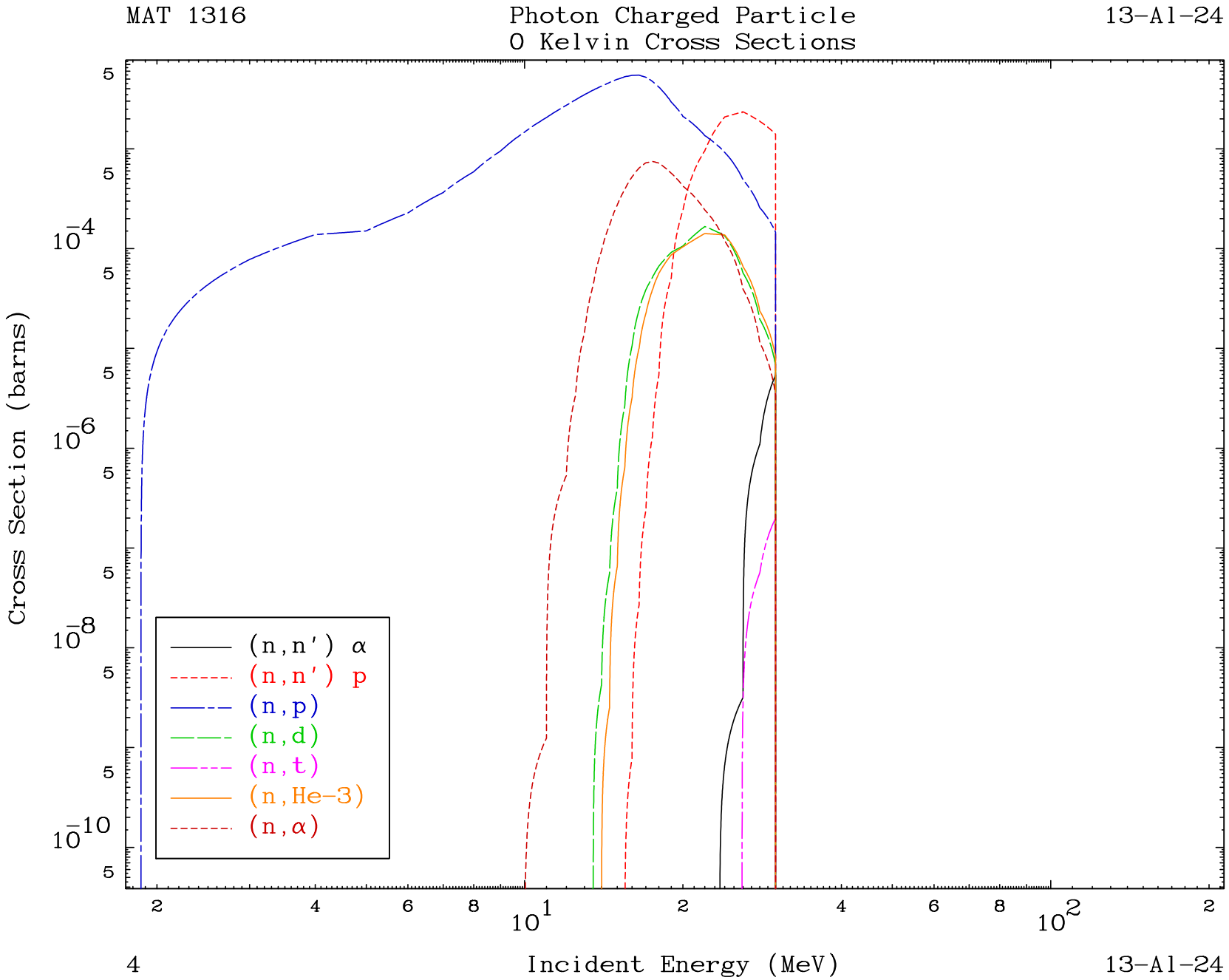
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

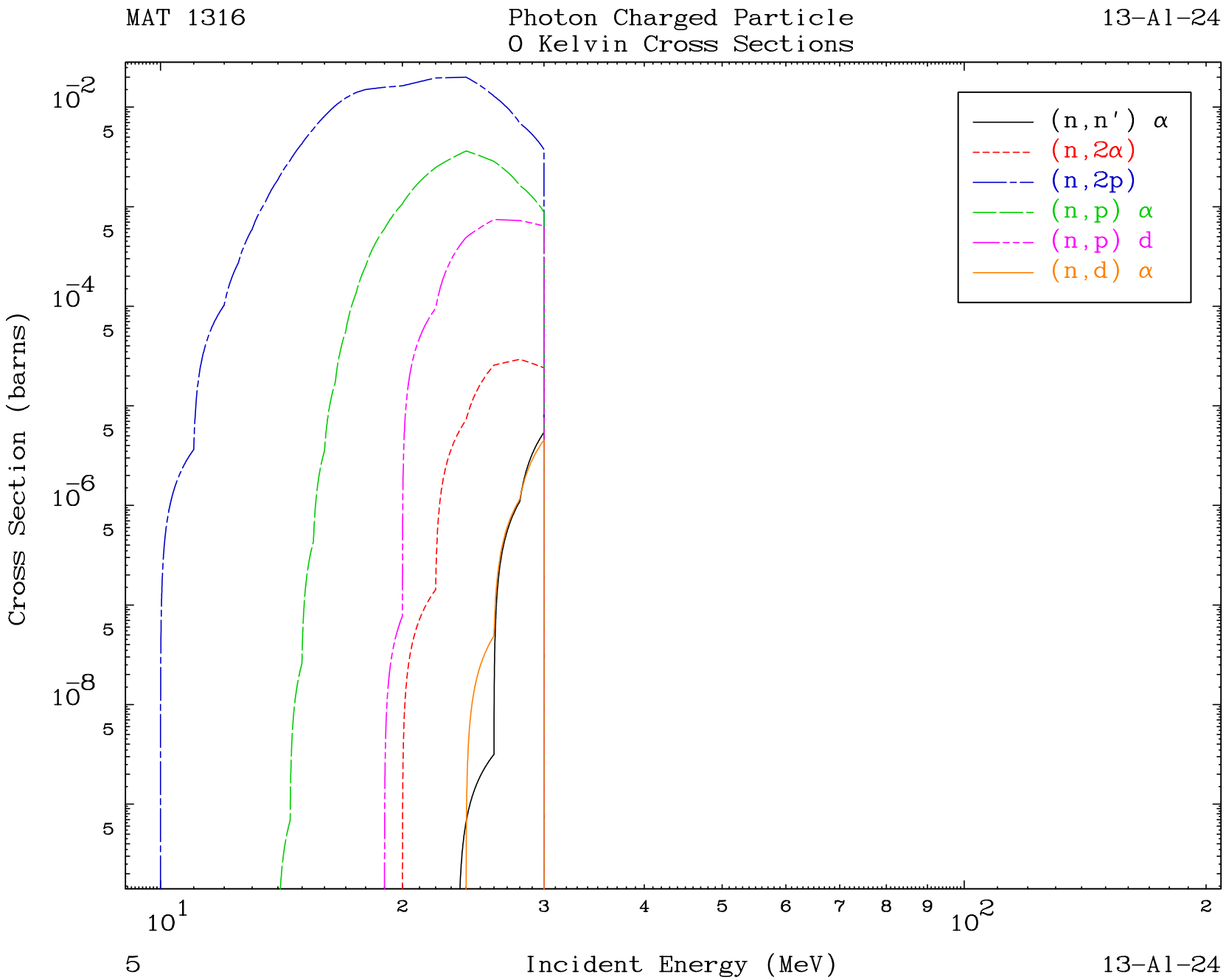
Press Mouse Button to Start

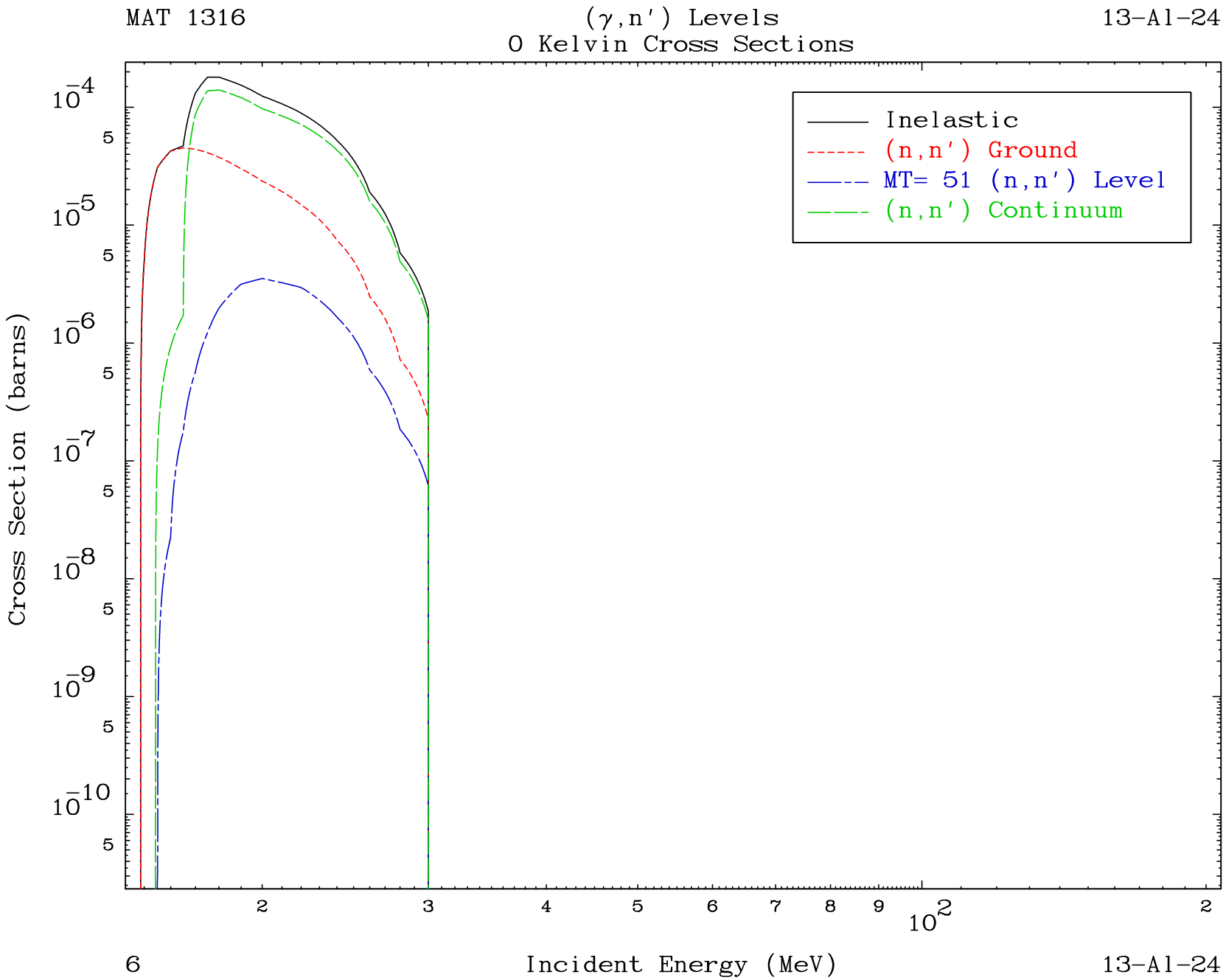

MAT 1316
Photon Major
13-Al-24
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
13-Al-24

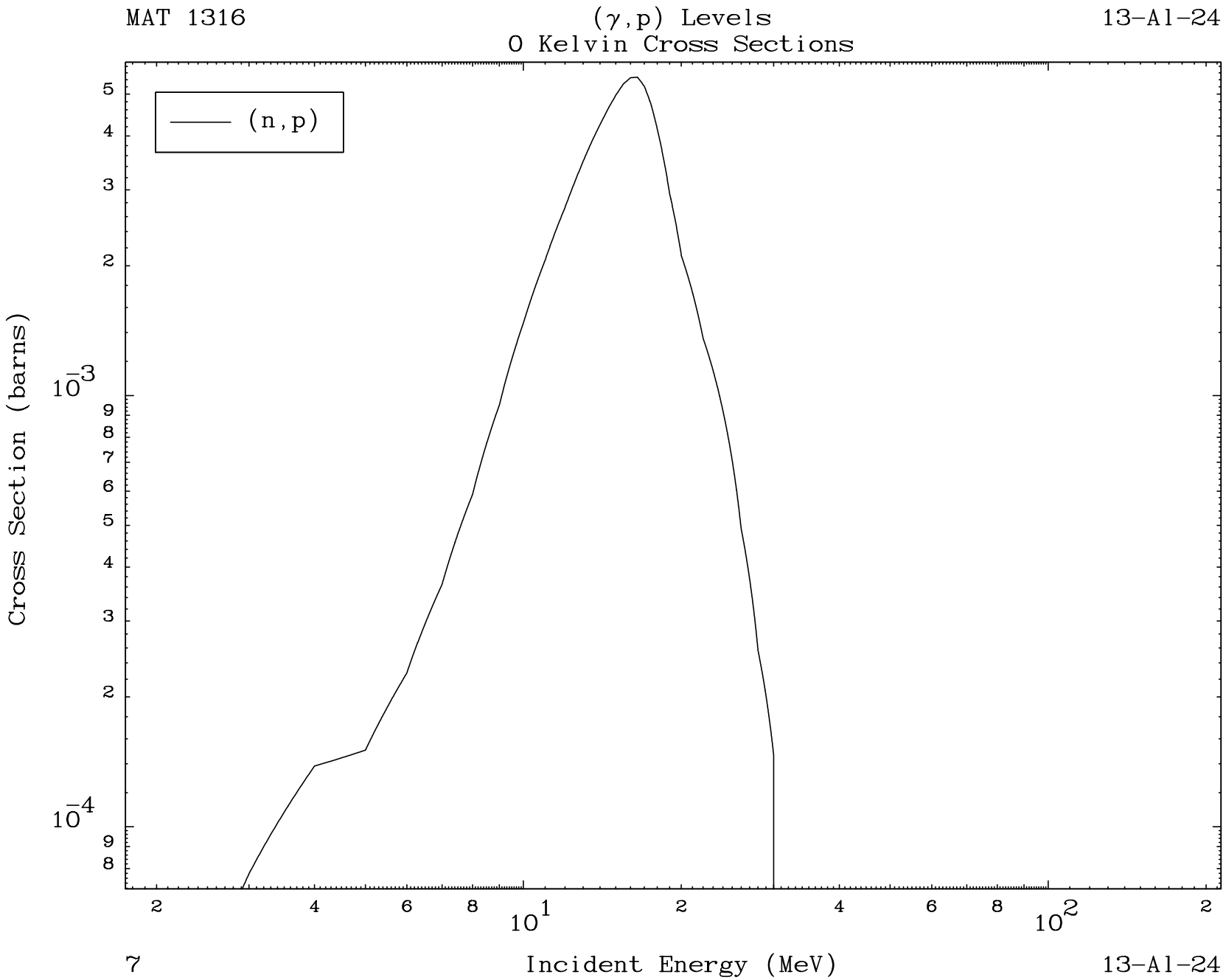

MAT 1316
Photon Neutron Absorption
0 Kelvin Cross Sections
13-Al-24
(n,n') α
(n,n') p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
2
13-Al-24

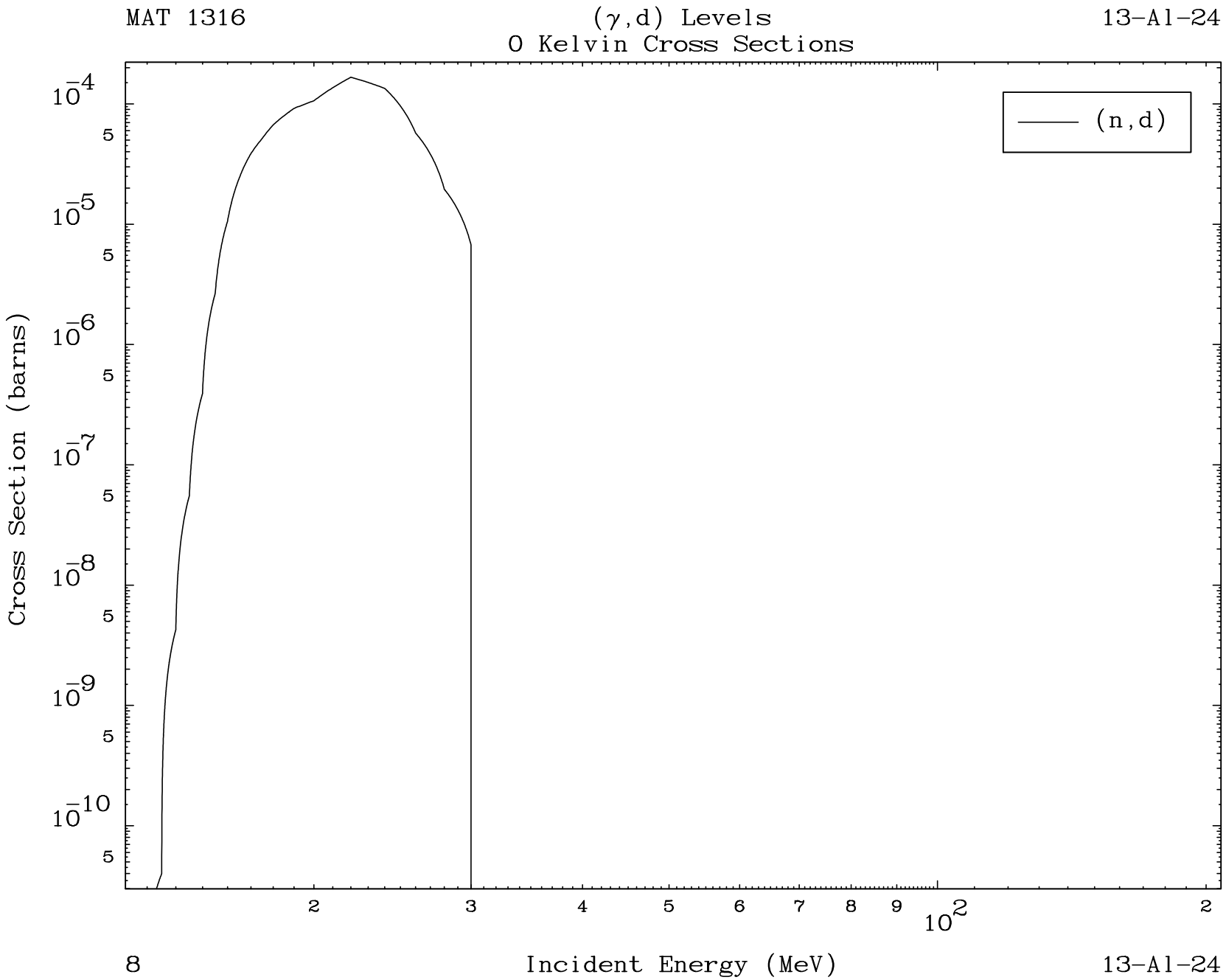

MAT 1316
Photon Neutron Absorption
0 Kelvin Cross Sections
13-Al-24
Cross Section (barns)
Incident Energy (MeV)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,d) α
3
13-Al-24

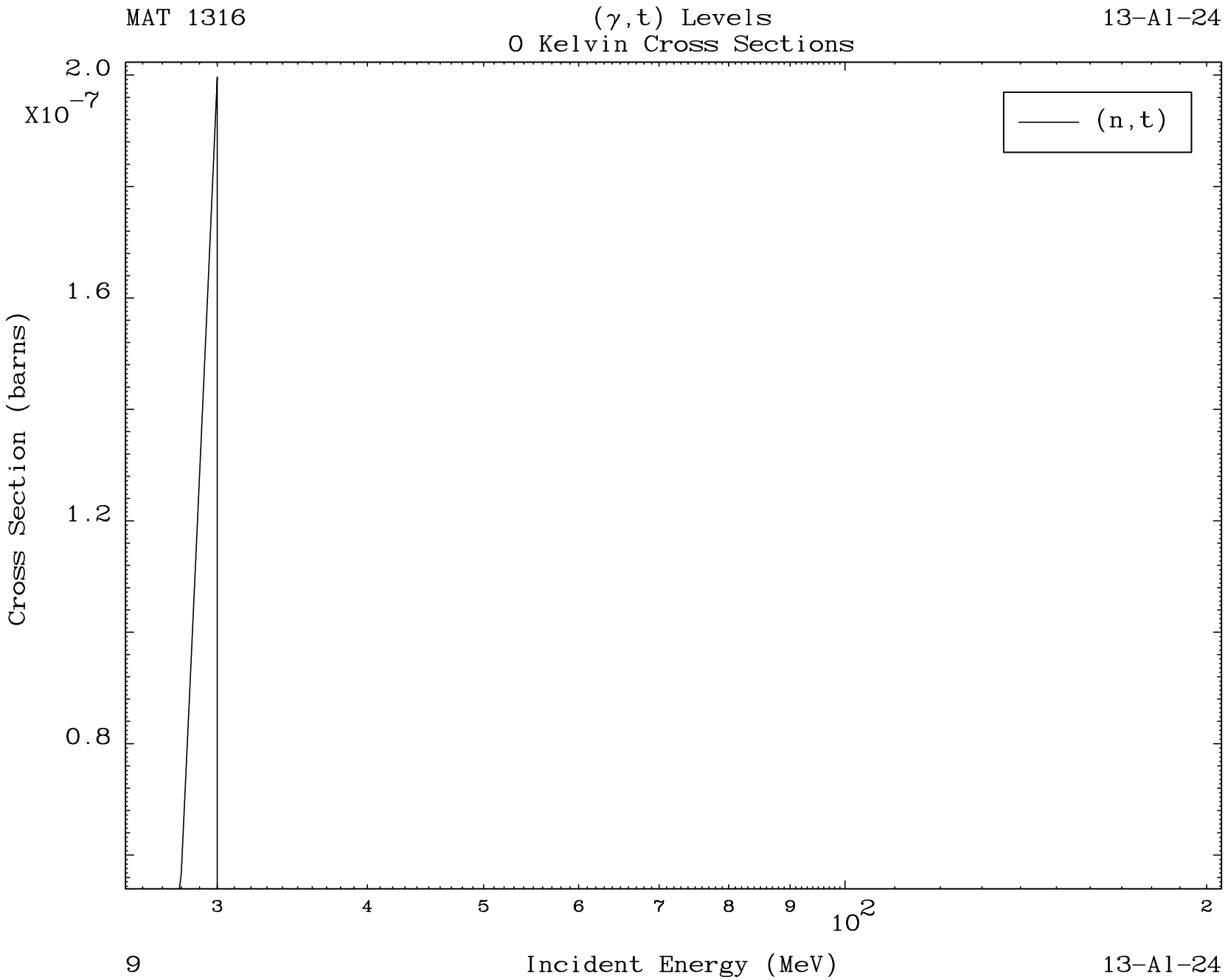

MAT 1316
Photon Charged Particle
0 Kelvin Cross Sections
13-Al-24
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,n') p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
4
13-Al-24

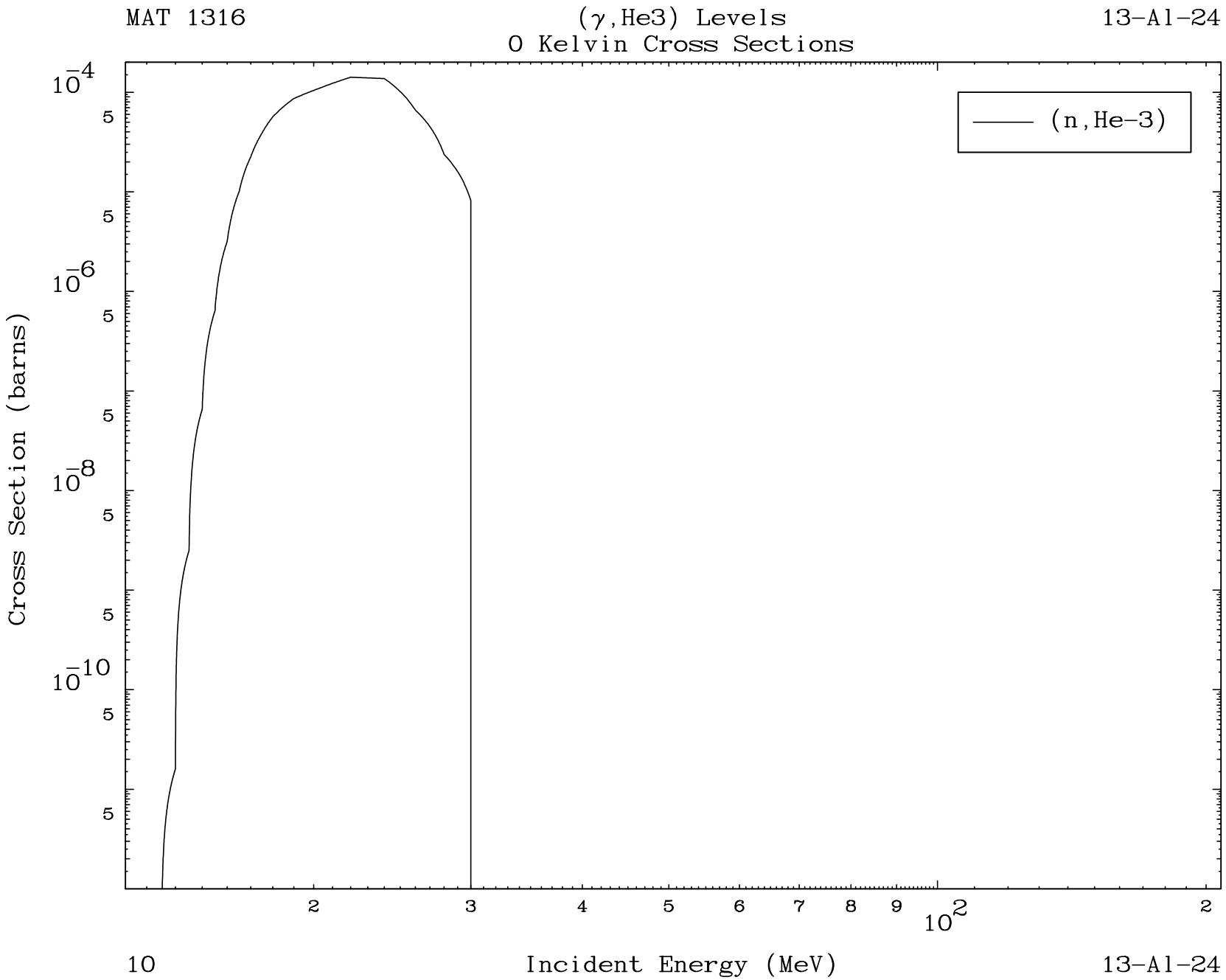

MAT 1316
Photon Charged Particle
0 Kelvin Cross Sections
13-Al-24
Cross Section (barns)
Incident Energy (MeV)
13-Al-24
5
(n,n') α
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,d) α

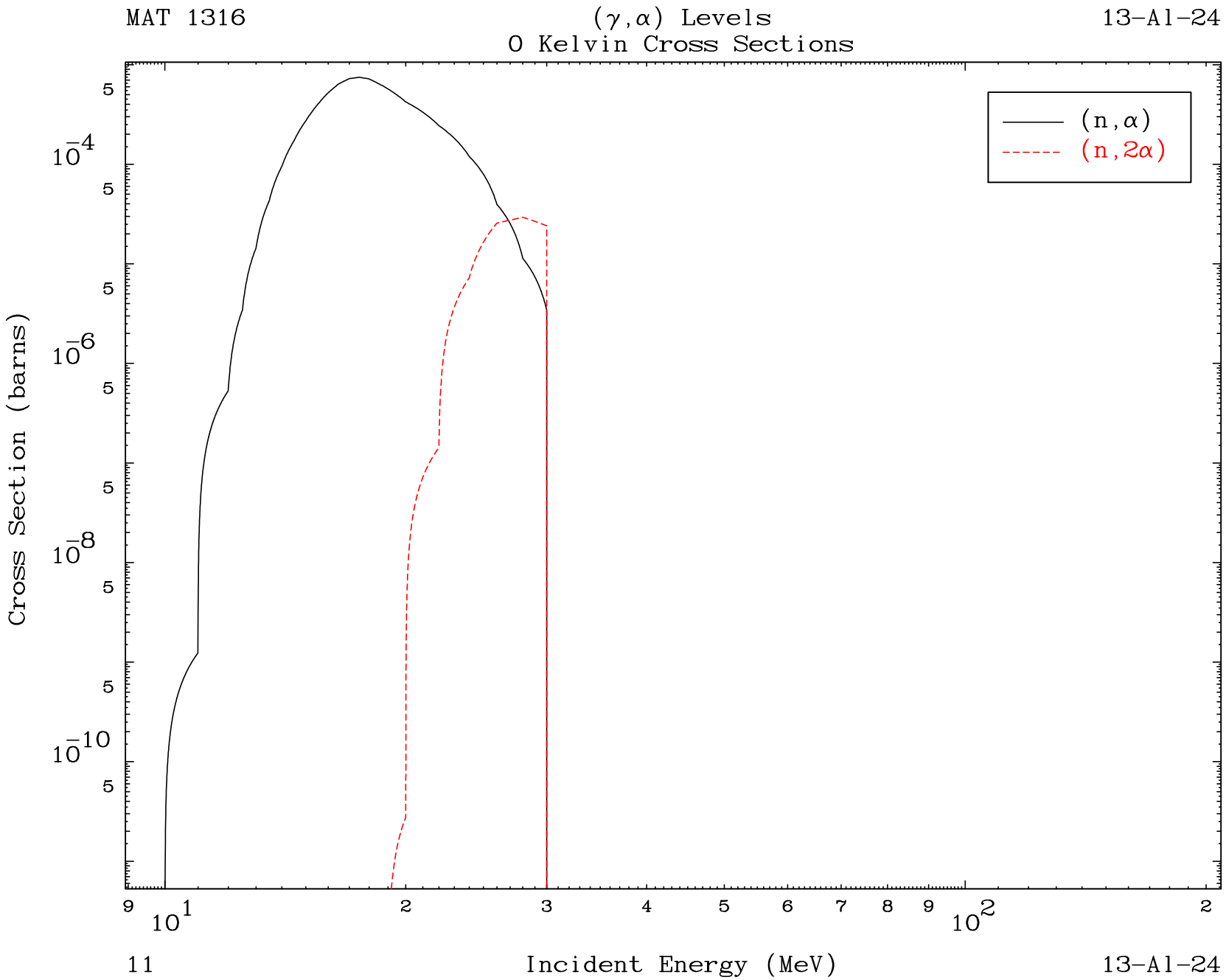

MAT 1316
(γ,n') Levels
13-Al-24
0 Kelvin Cross Sections
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
6
13-Al-24

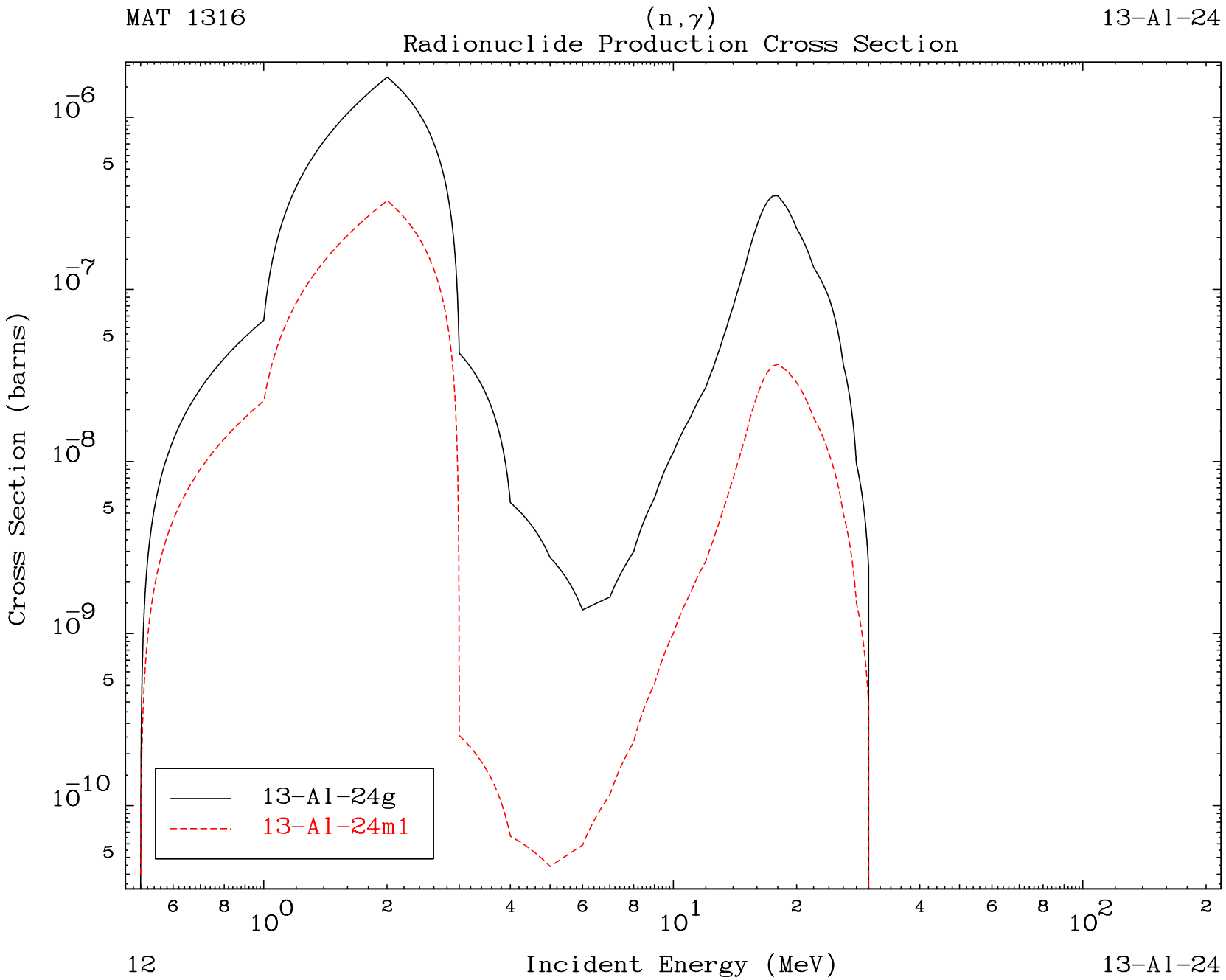

MAT 1316
(γ,p) Levels
13-Al-24
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
13-Al-24


MAT 1316
(γ,d) Levels
13-Al-24
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-4
5
10-5
5
10-6
5
10-7
5
10-8
5
10-9
5
10-10
5
2
3
4
5
6
7
8
9
10 2
2
8
Incident Energy (MeV)
13-Al-24


MAT 1316
(γ,t) Levels
13-Al-24
0 Kelvin Cross Sections
2.0
X10-7
1.6
1.2
0.8
Cross Section (barns)
(n,t)
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
13-Al-24


MAT 1316
(γ,He3) Levels
13-Al-24
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)
13-Al-24


MAT 1316
(γ,α) Levels
13-Al-24
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
13-Al-24


MAT 1316
(n,γ)
13-Al-24
Radionuclide Production Cross Section
Cross Section (barns)
10-6
5
10-7
5
10-8
5
10-9
5
10-10
5
13-Al-24g
13-Al-24m1
6
8
100
2
4
6
8
101
2
4
6
8
102
2
12
Incident Energy (MeV)
13-Al-24