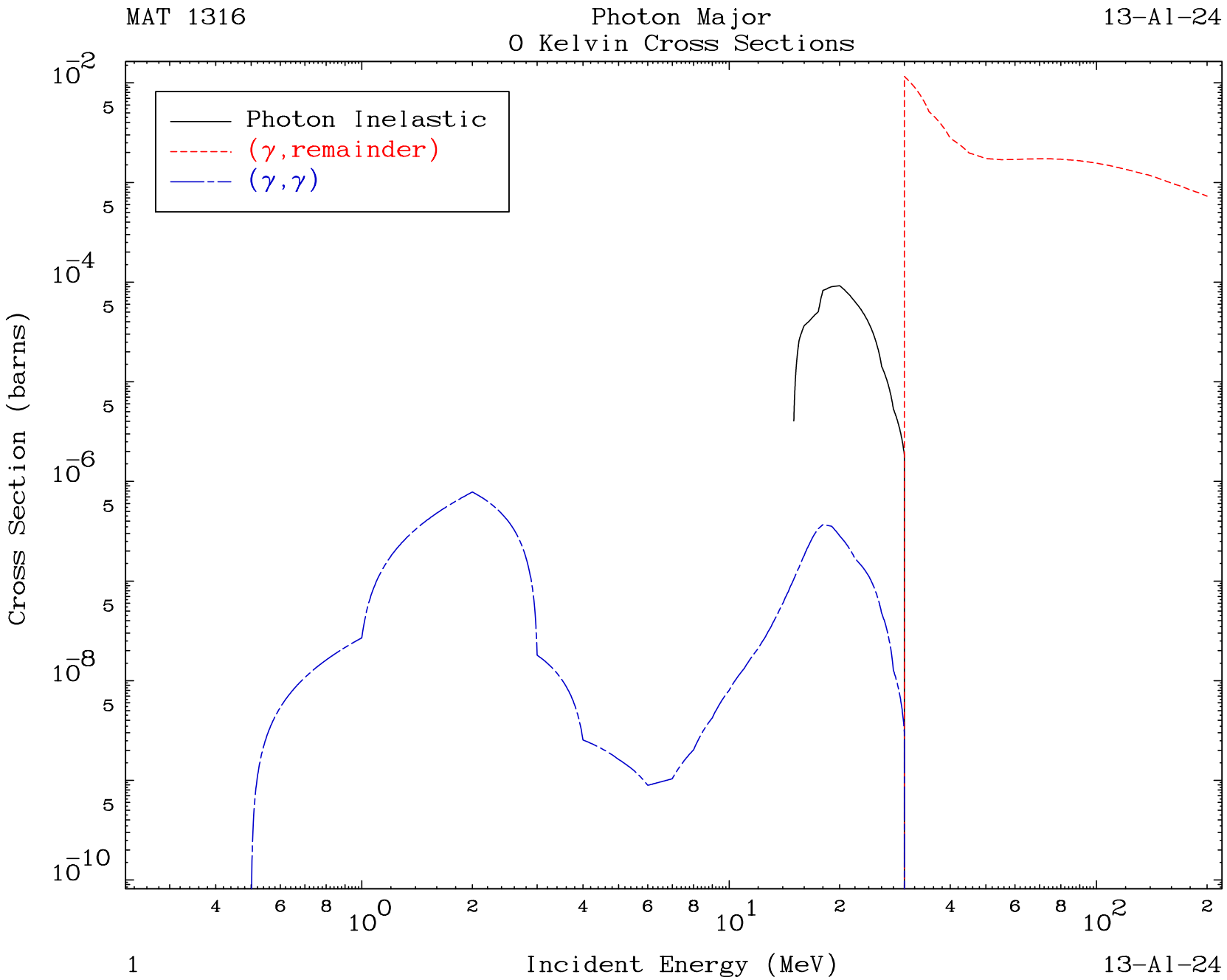
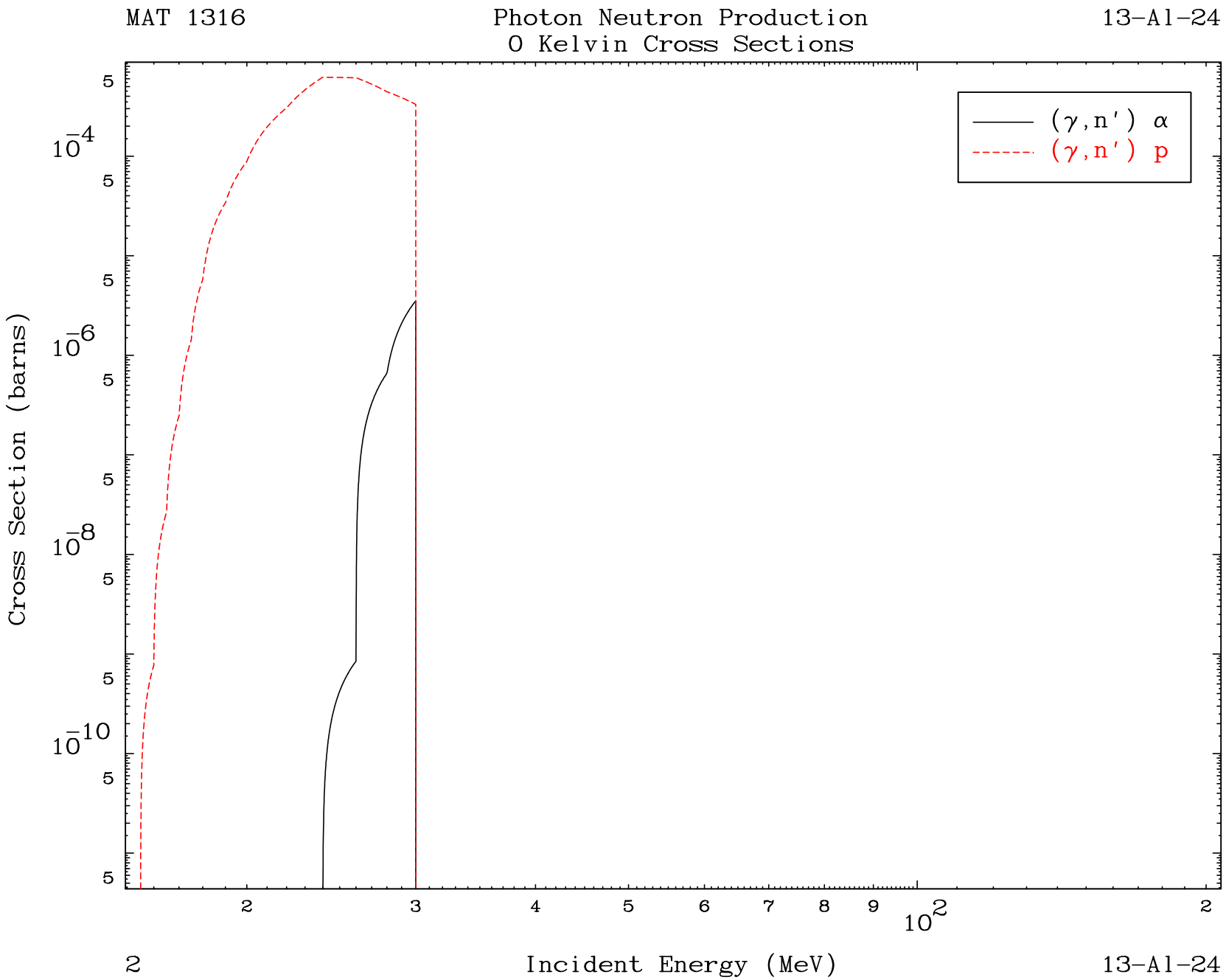
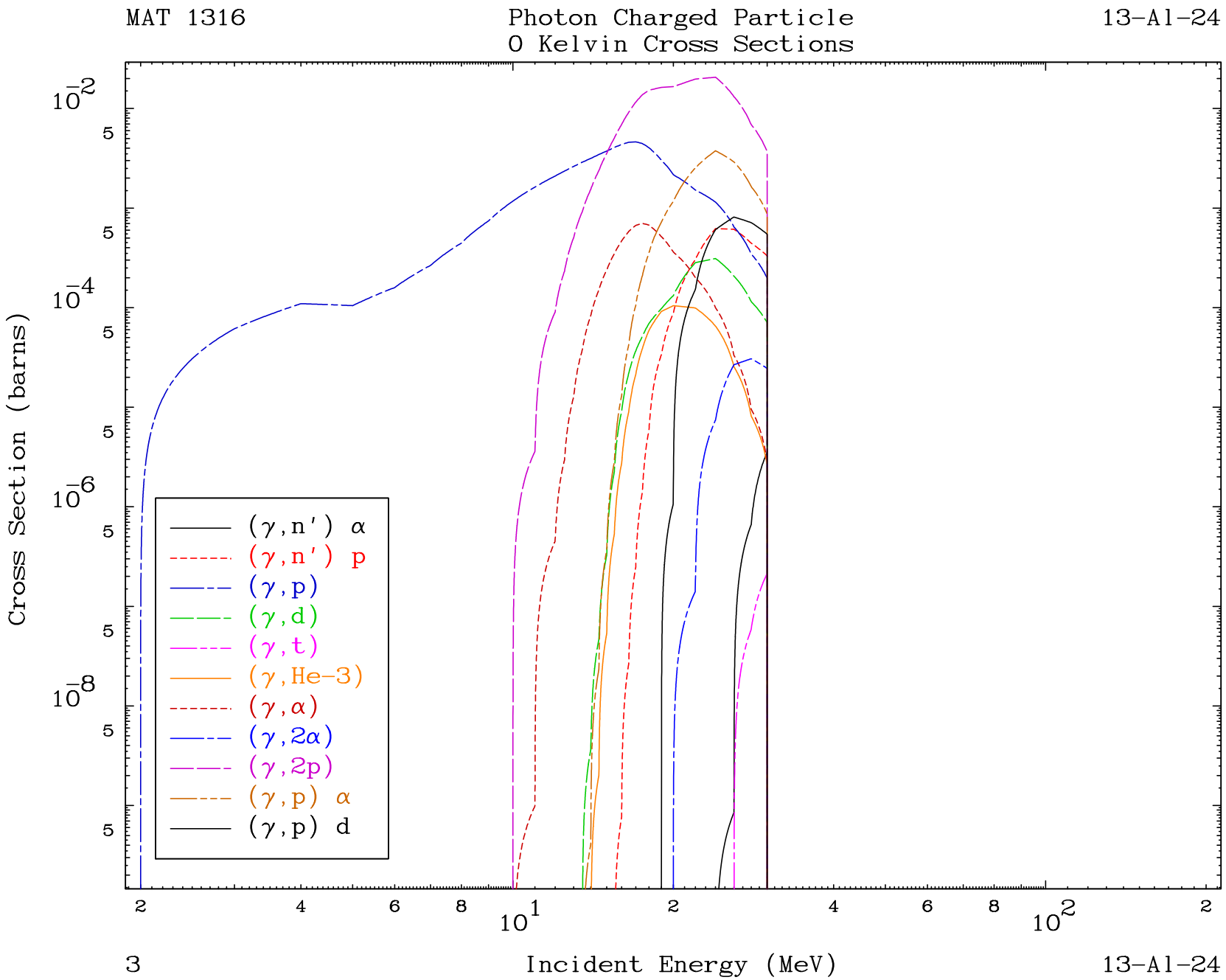
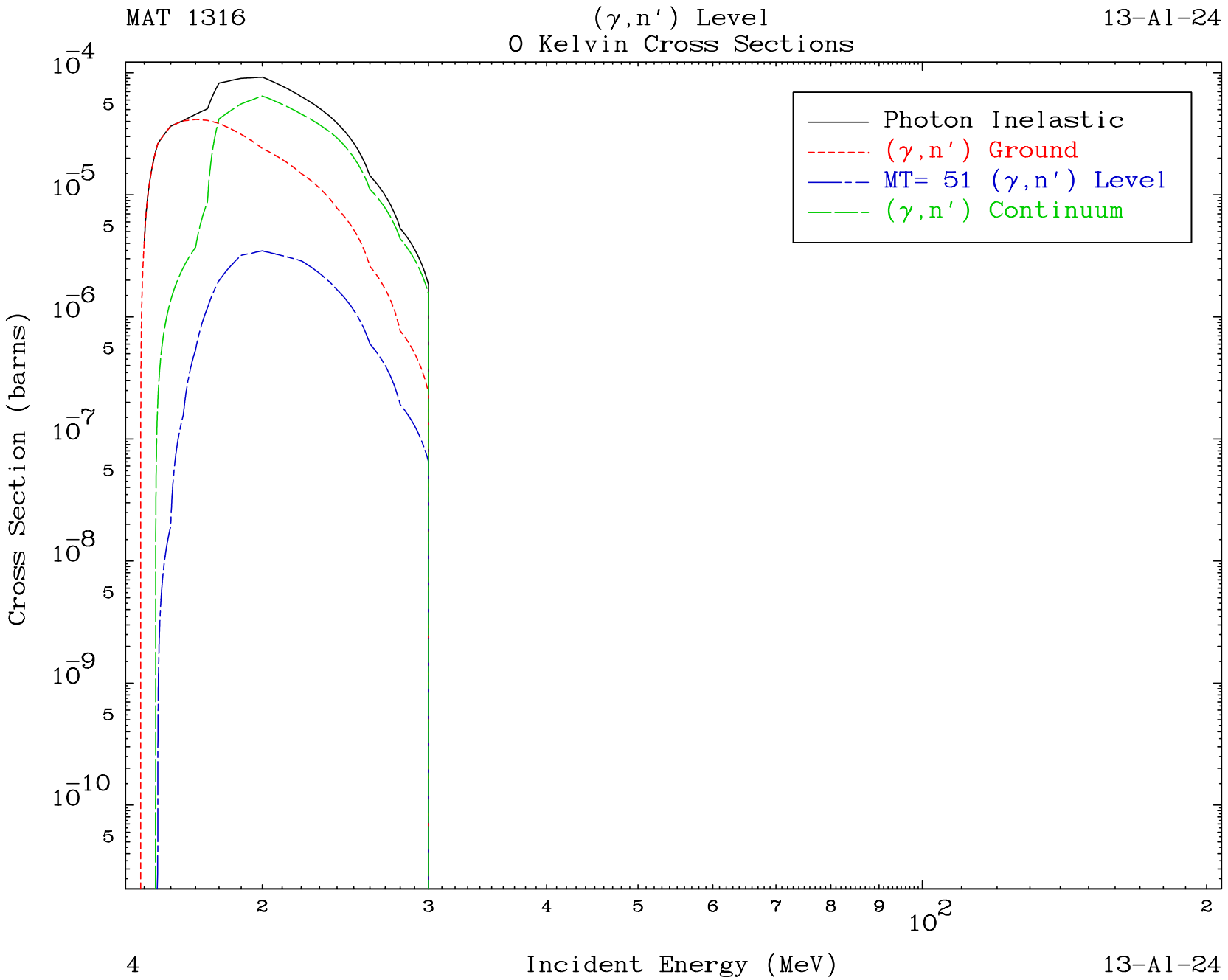
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

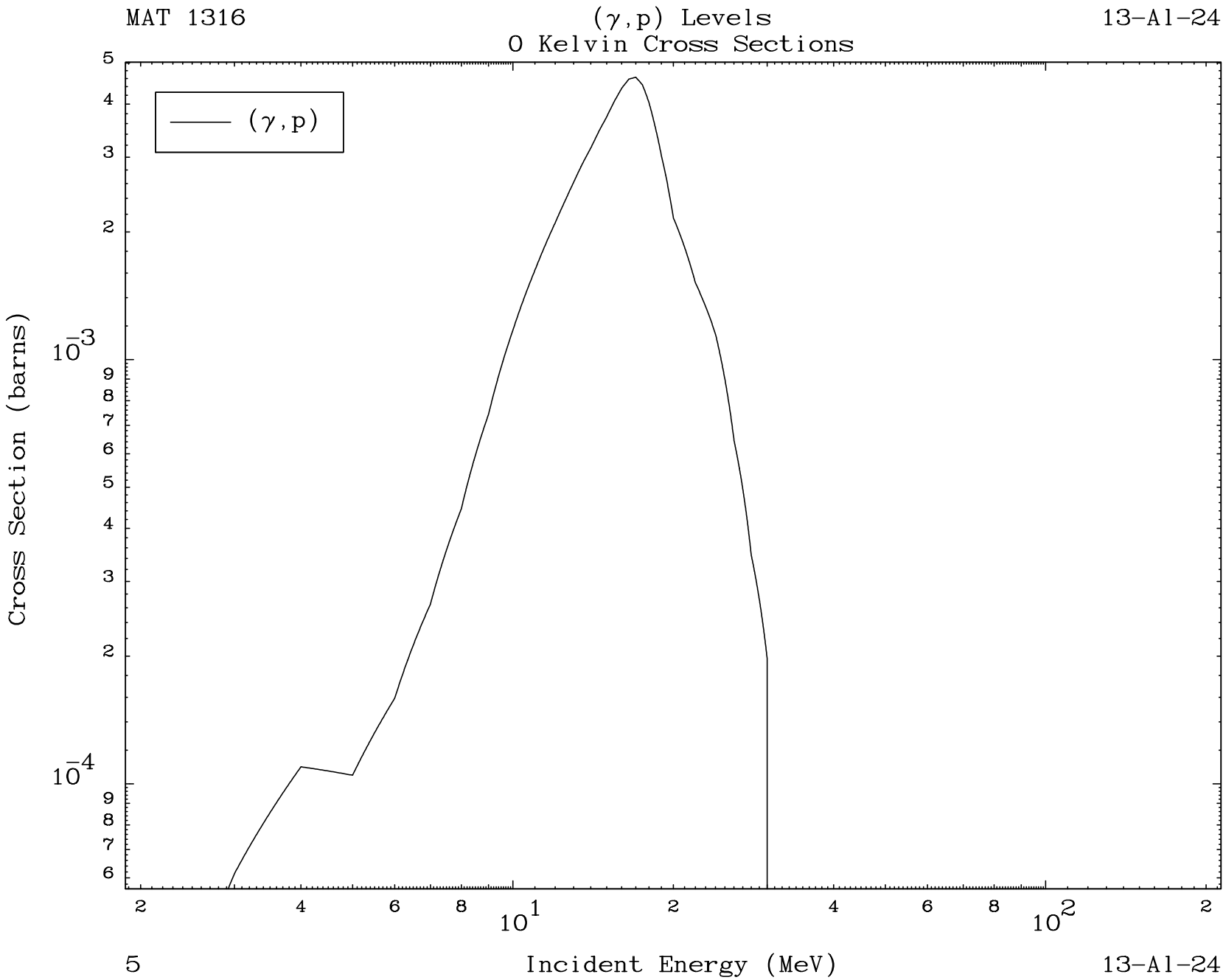
Press Mouse Button to Start

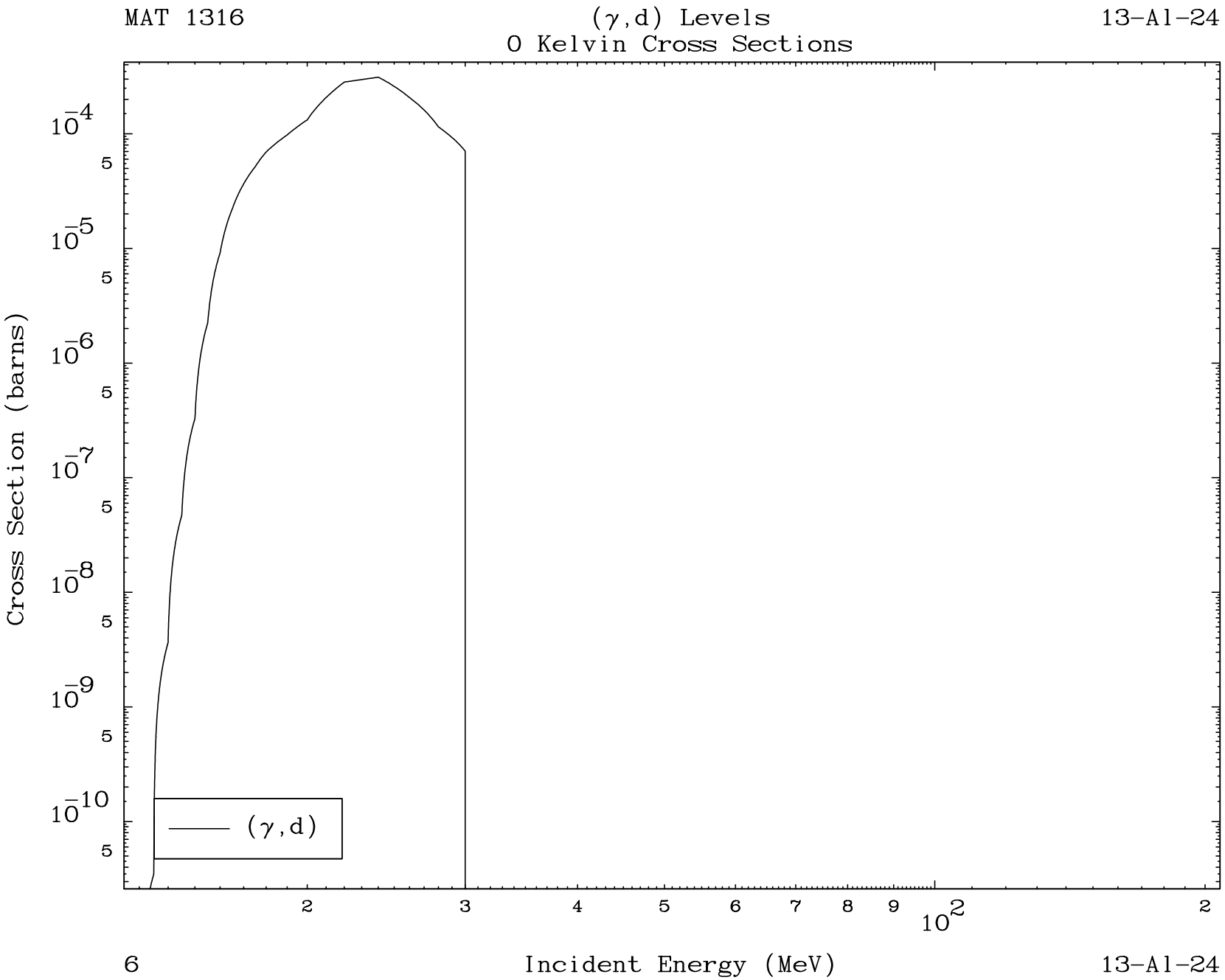

MAT 1316
Photon Major
13-Al-24
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
13-Al-24
1

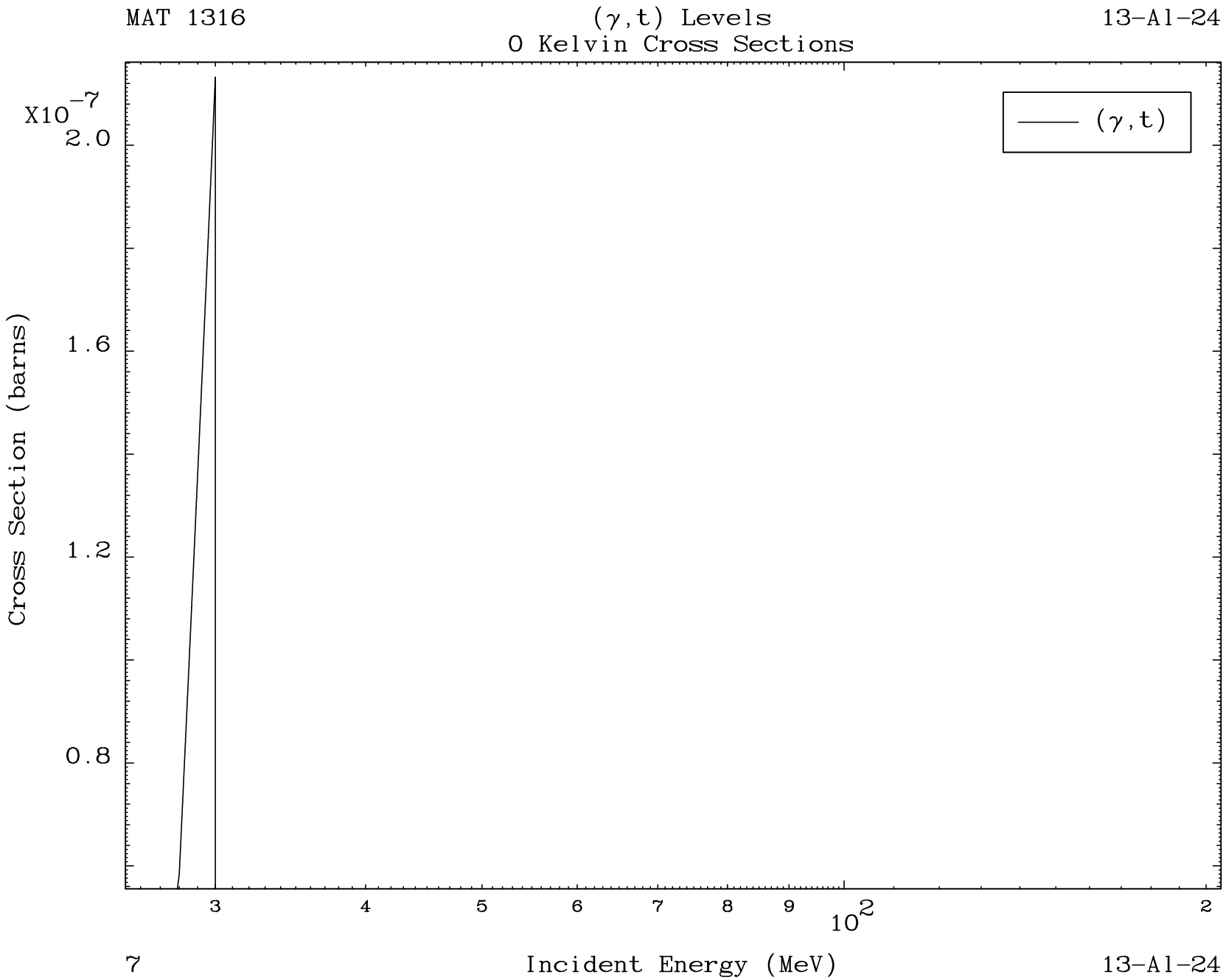

MAT 1316
Photon Neutron Production
0 Kelvin Cross Sections
13-Al-24
(γ,n') α
(γ,n') p
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
2
3
4
5
6
7
8
9
10^2
2
13-Al-24

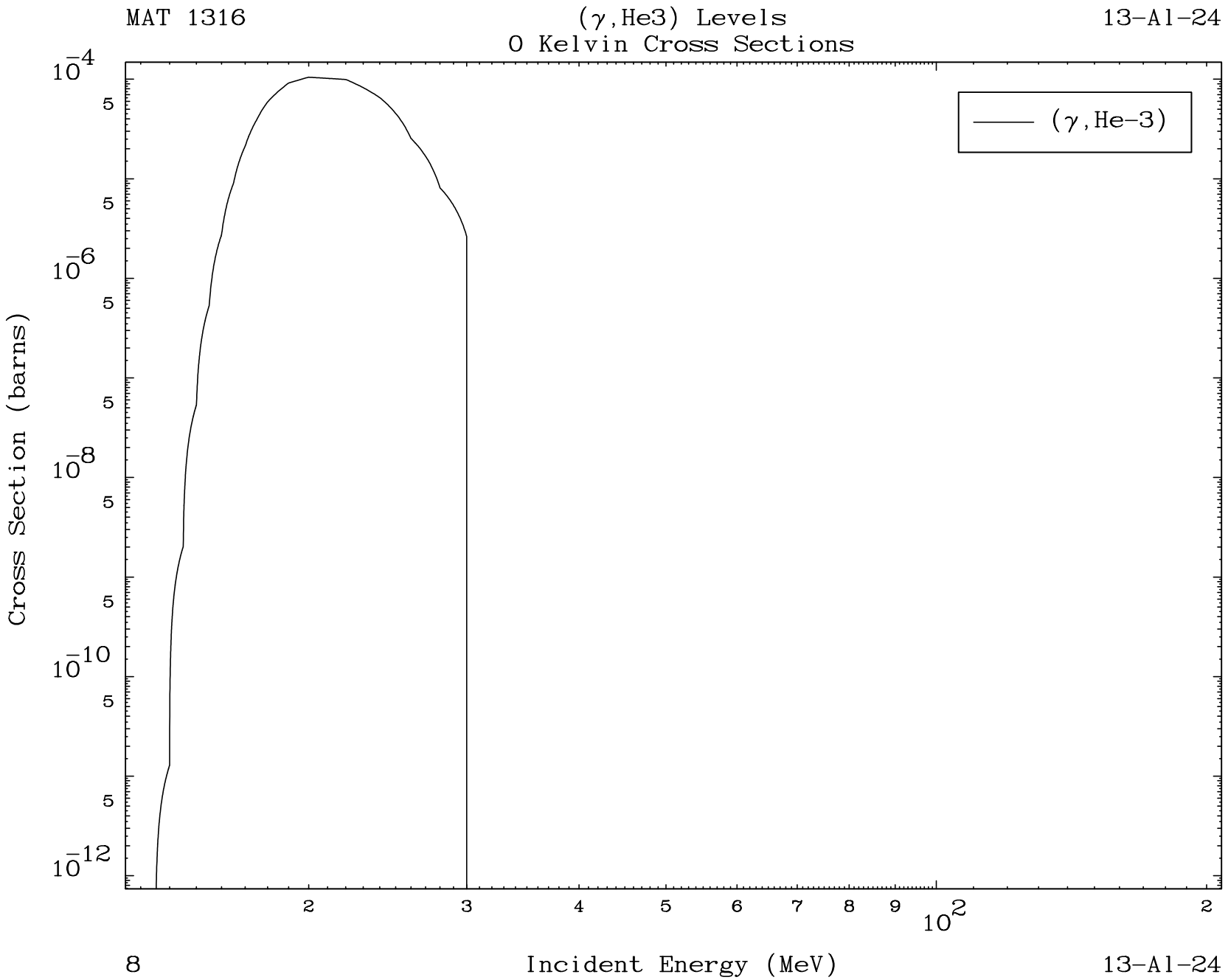

MAT 1316
Photon Charged Particle
0 Kelvin Cross Sections
13-Al-24
Cross Section (barns)
Incident Energy (MeV)
3
13-Al-24
(γ,n') α
(γ,n') p
(γ,p)
(γ,d)
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d

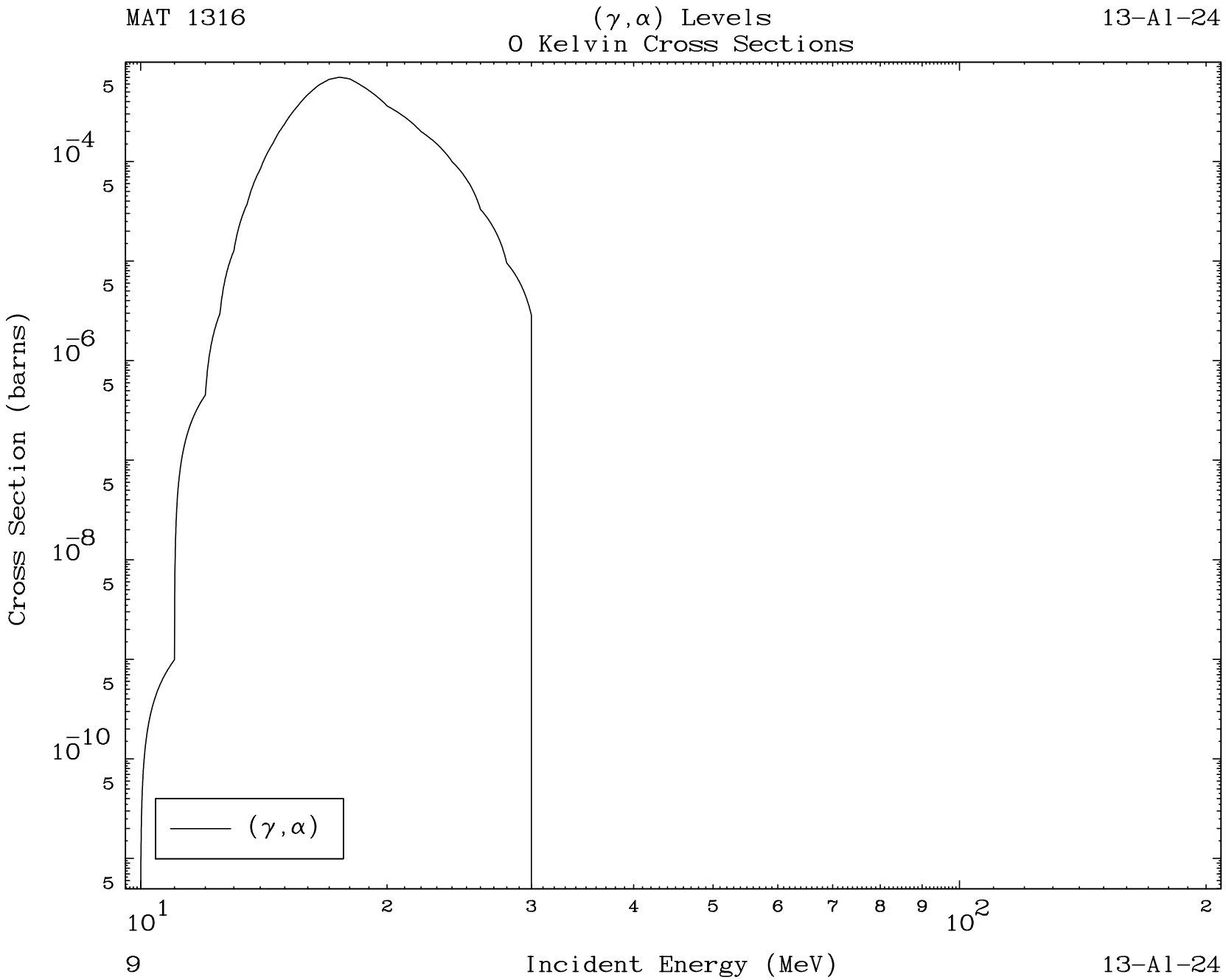

MAT 1316
(γ,n') Level
13-Al-24
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
4
13-Al-24

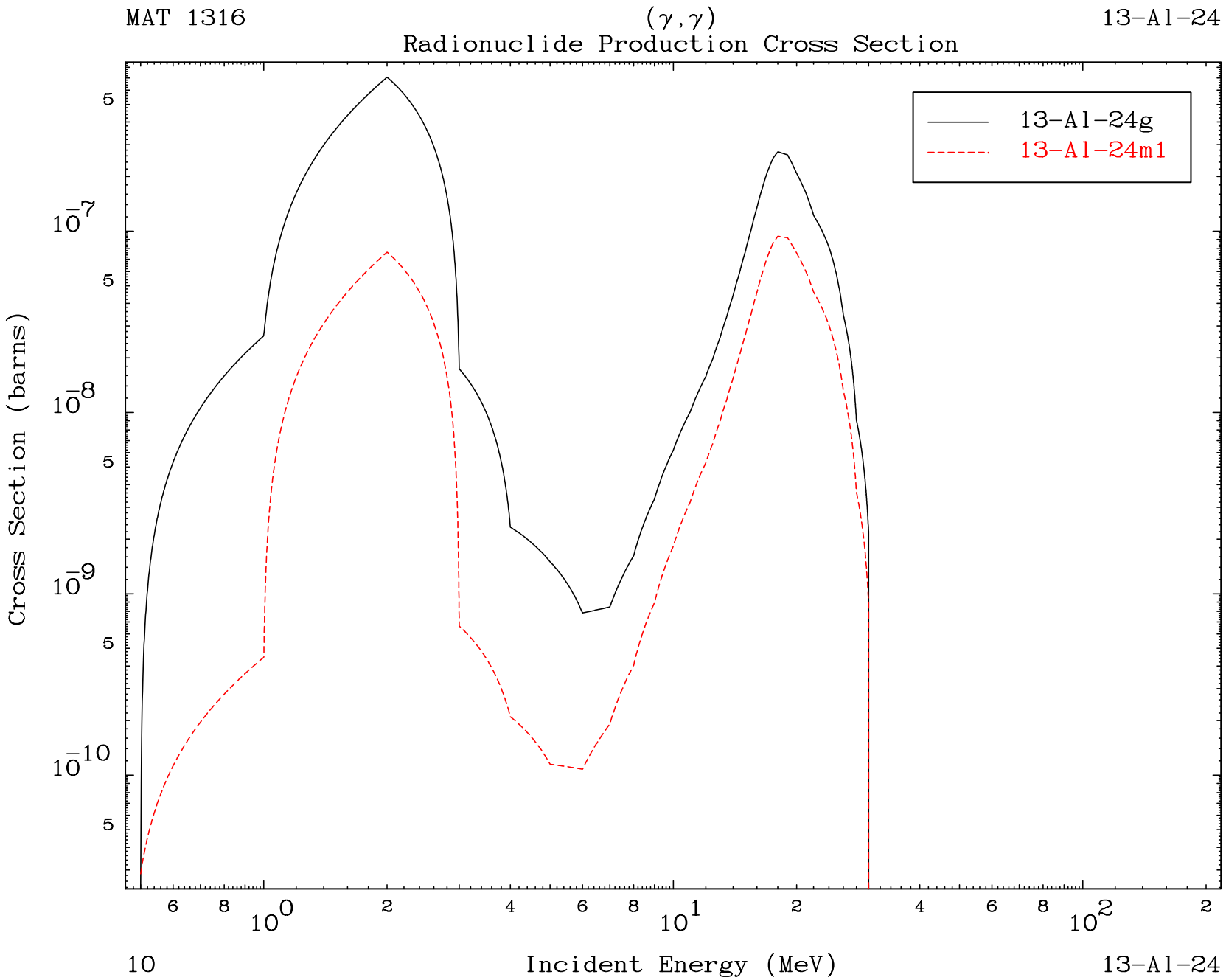

MAT 1316
(γ,p) Levels
13-Al-24
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
Incident Energy (MeV)
5
13-Al-24


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


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


MAT 1316
(γ,He3) Levels
13-Al-24
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
8
13-Al-24


MAT 1316
(γ,α) Levels
13-Al-24
0 Kelvin Cross Sections
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
(γ,α)
10^1
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
13-Al-24


MAT 1316
(γ,γ)
13-Al-24
Radionuclide Production Cross Section
13-Al-24g
13-Al-24m1
Cross Section (barns)
Incident Energy (MeV)
13-Al-24