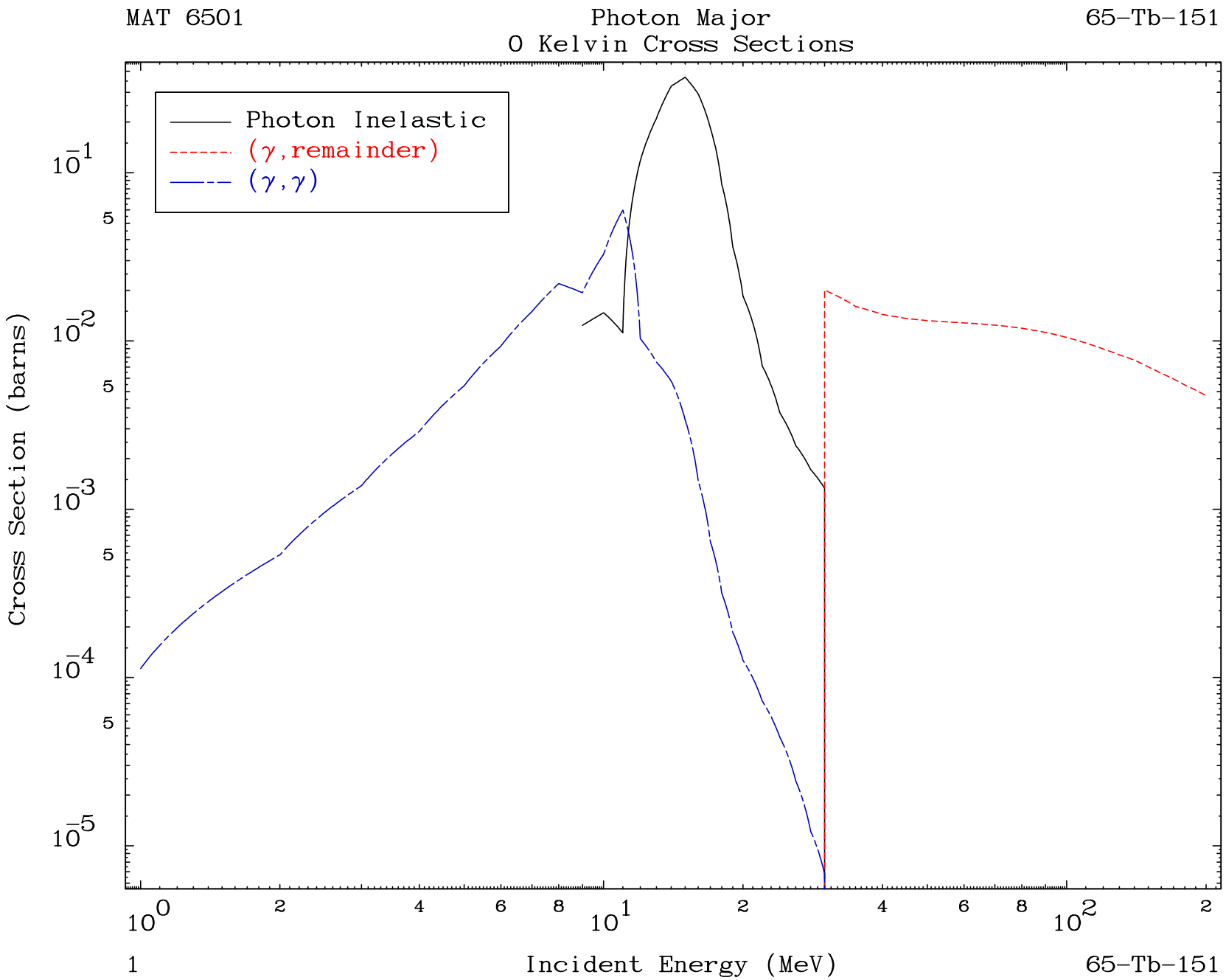
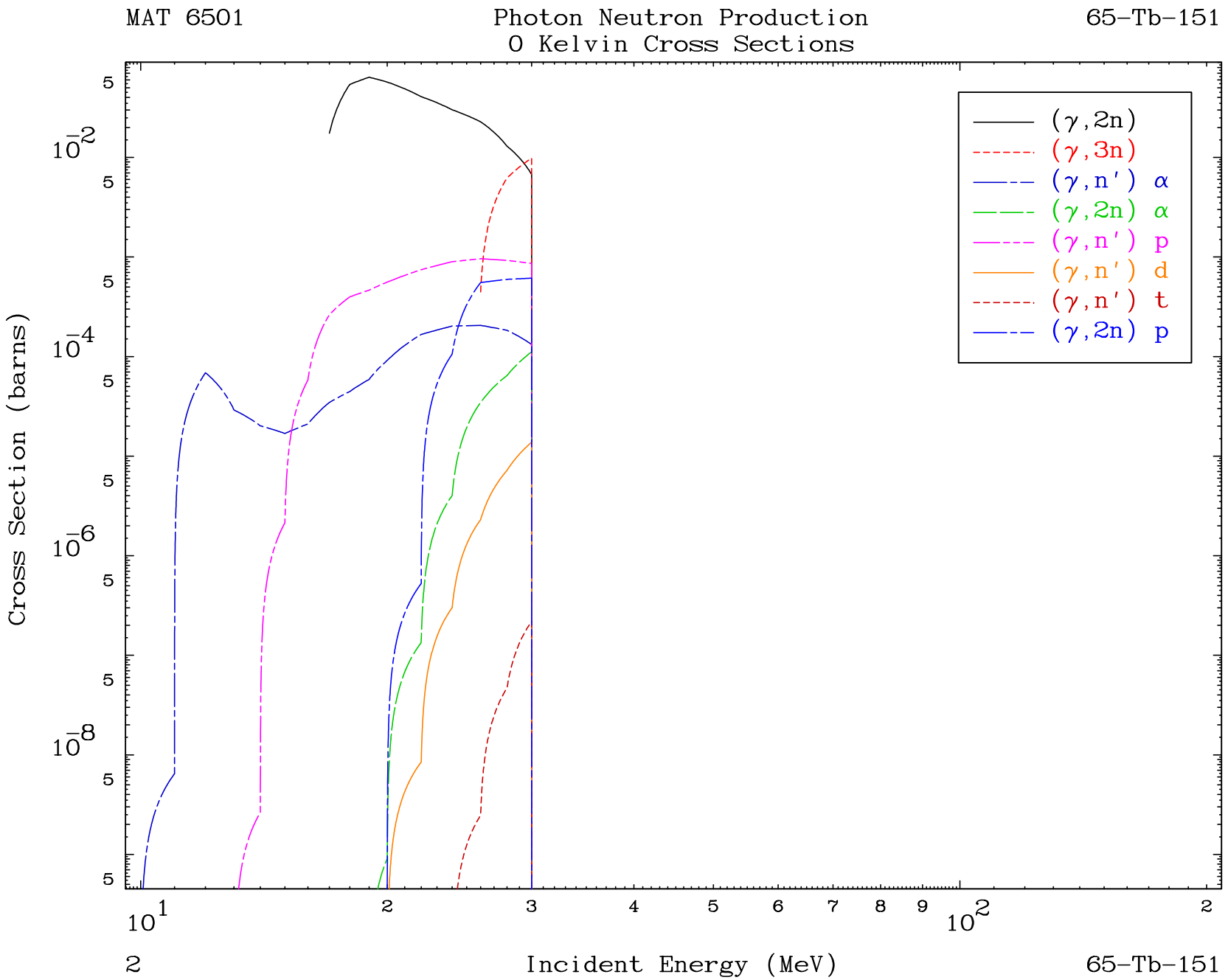
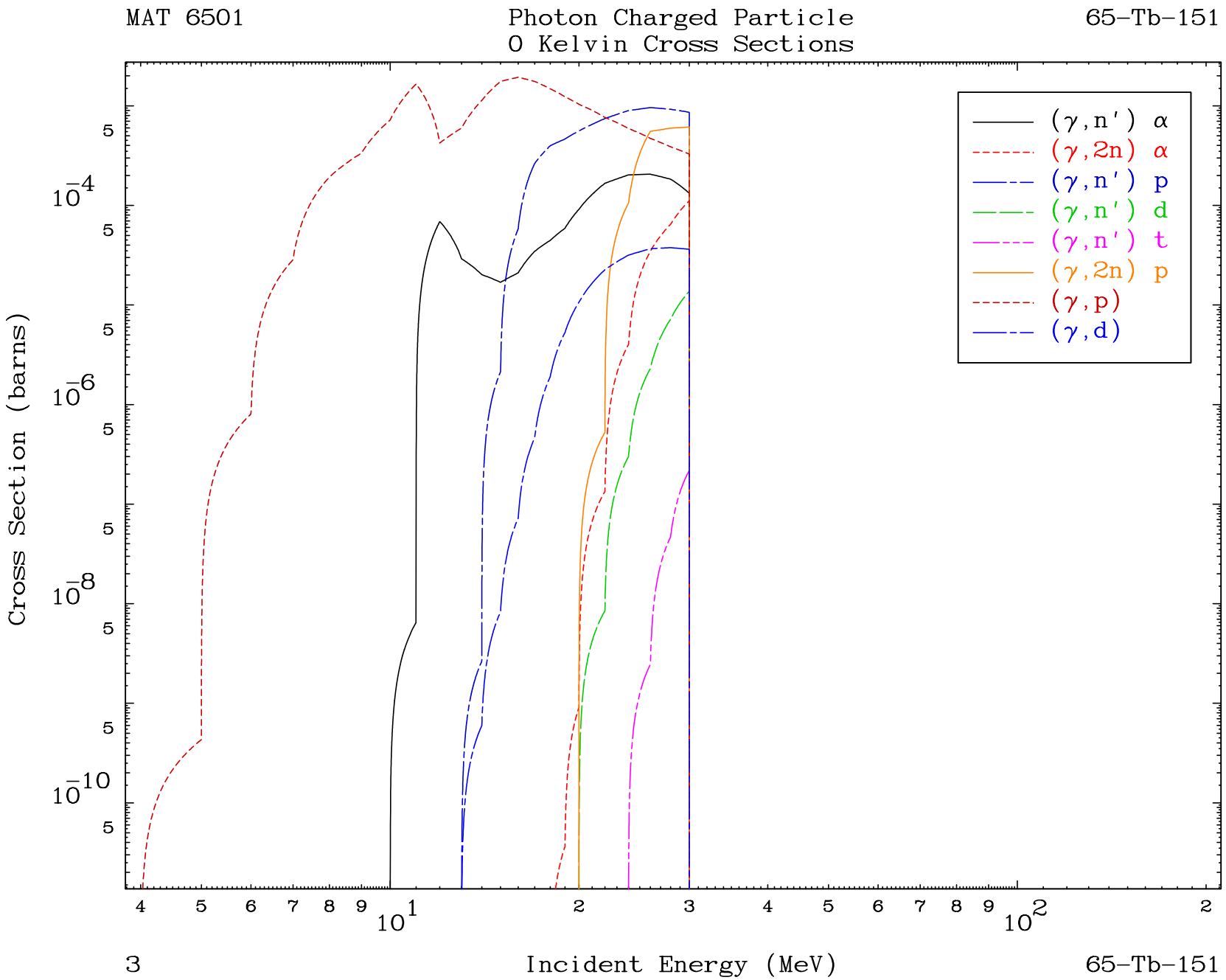
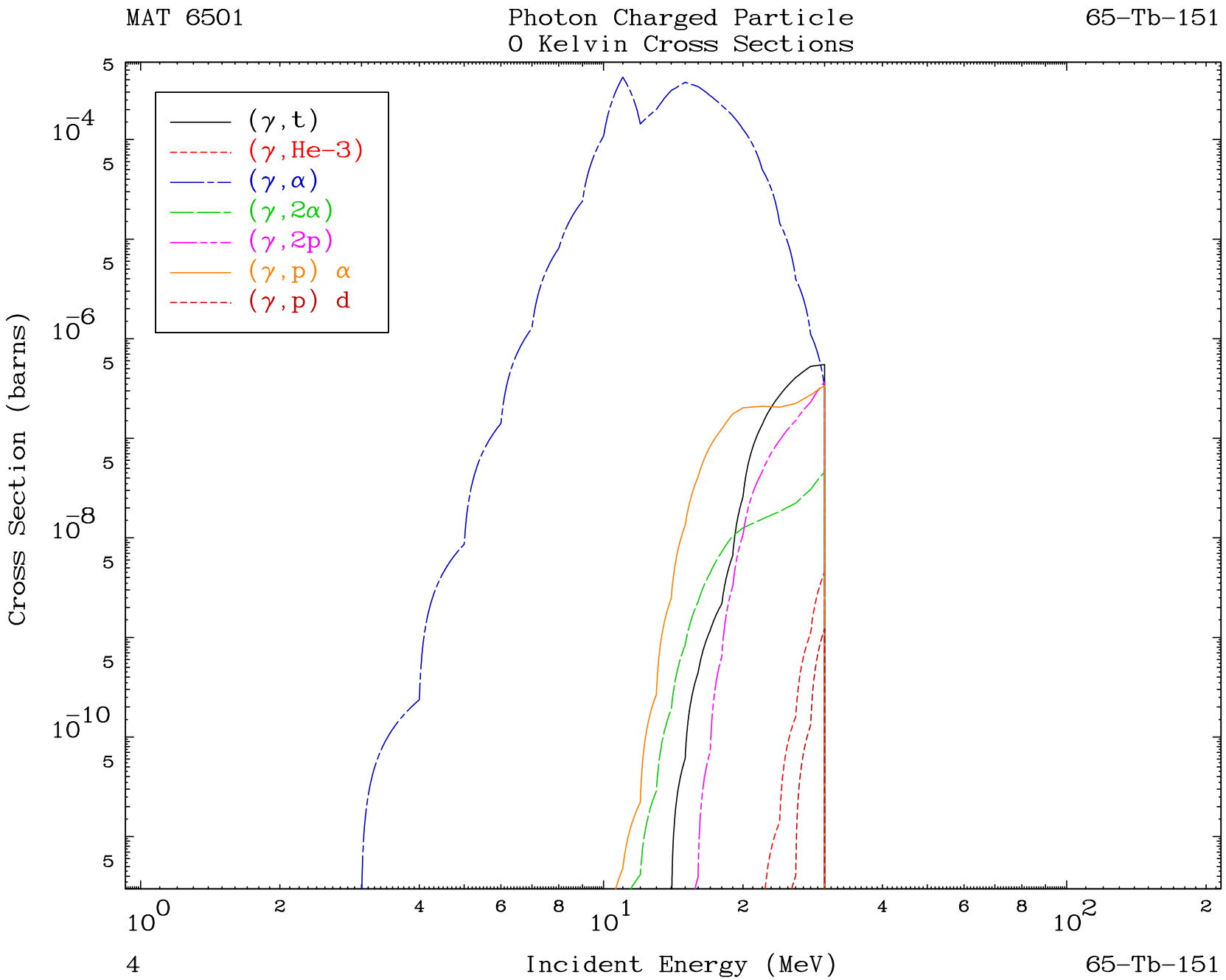
Program EVALPLOT
(Version 2017-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

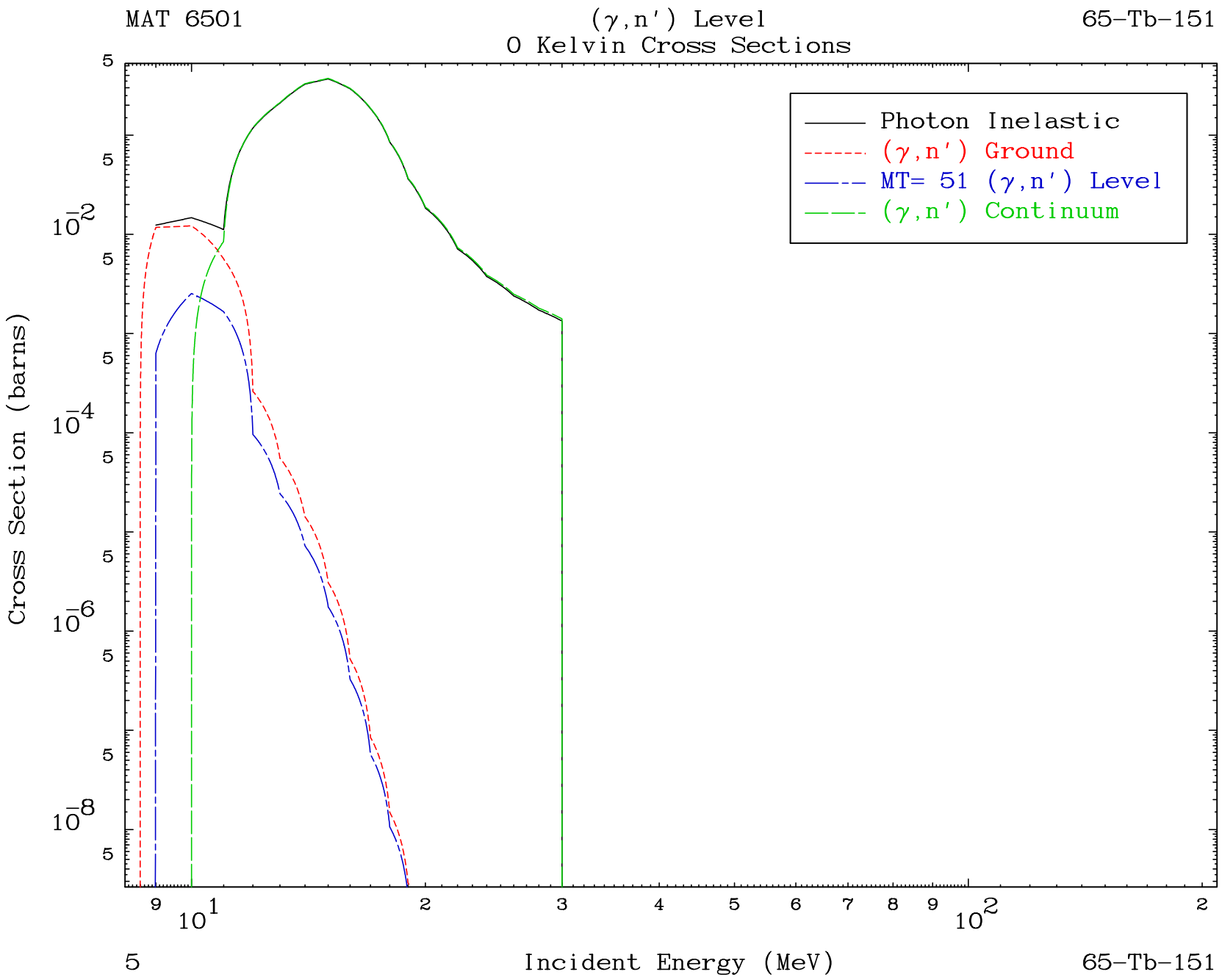
Press Mouse Button to Start

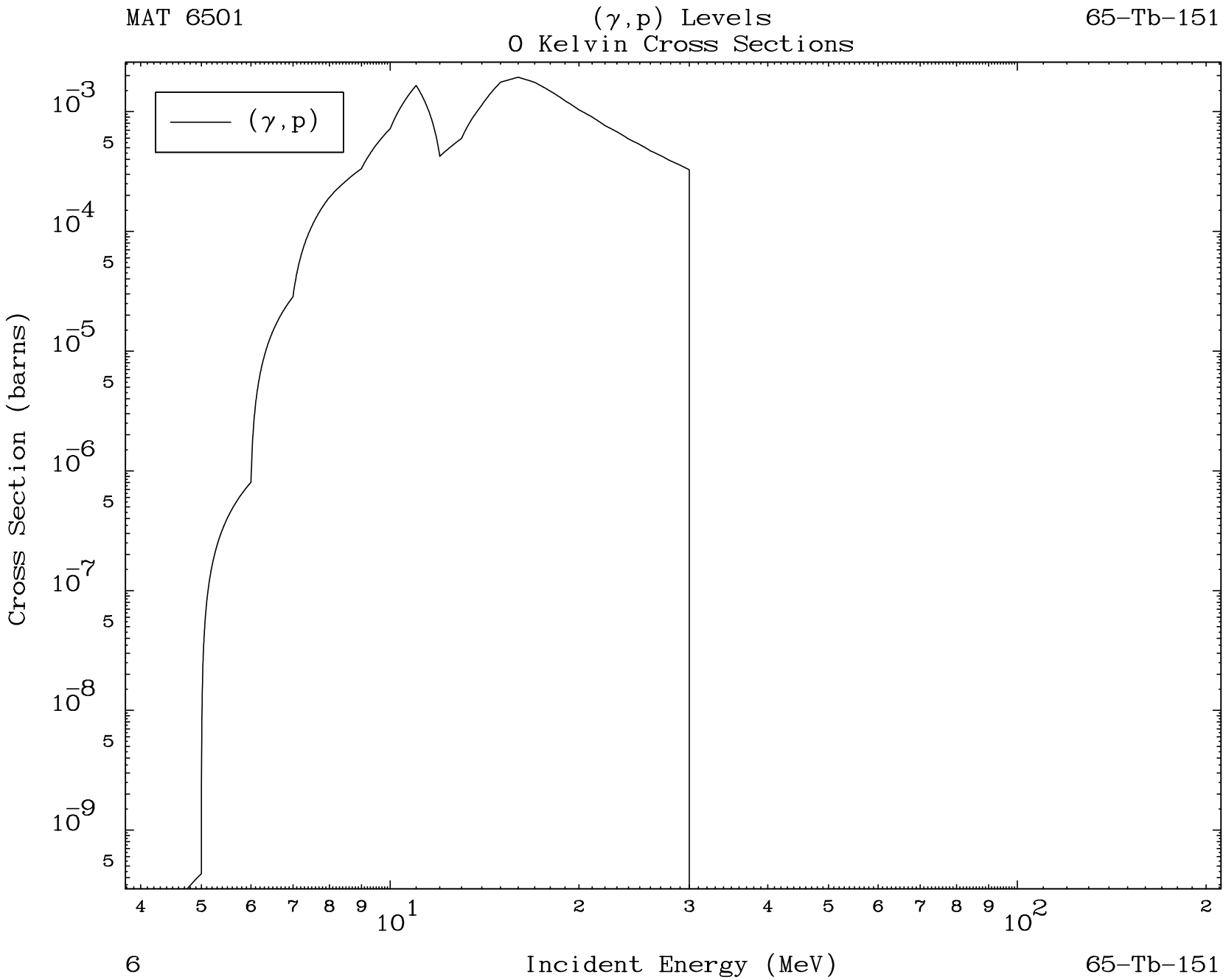

MAT 6501
Photon Major
65-Tb-151
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
10-5
100
2
4
6
8
101
2
4
6
8
102
2
1
Incident Energy (MeV)
65-Tb-151

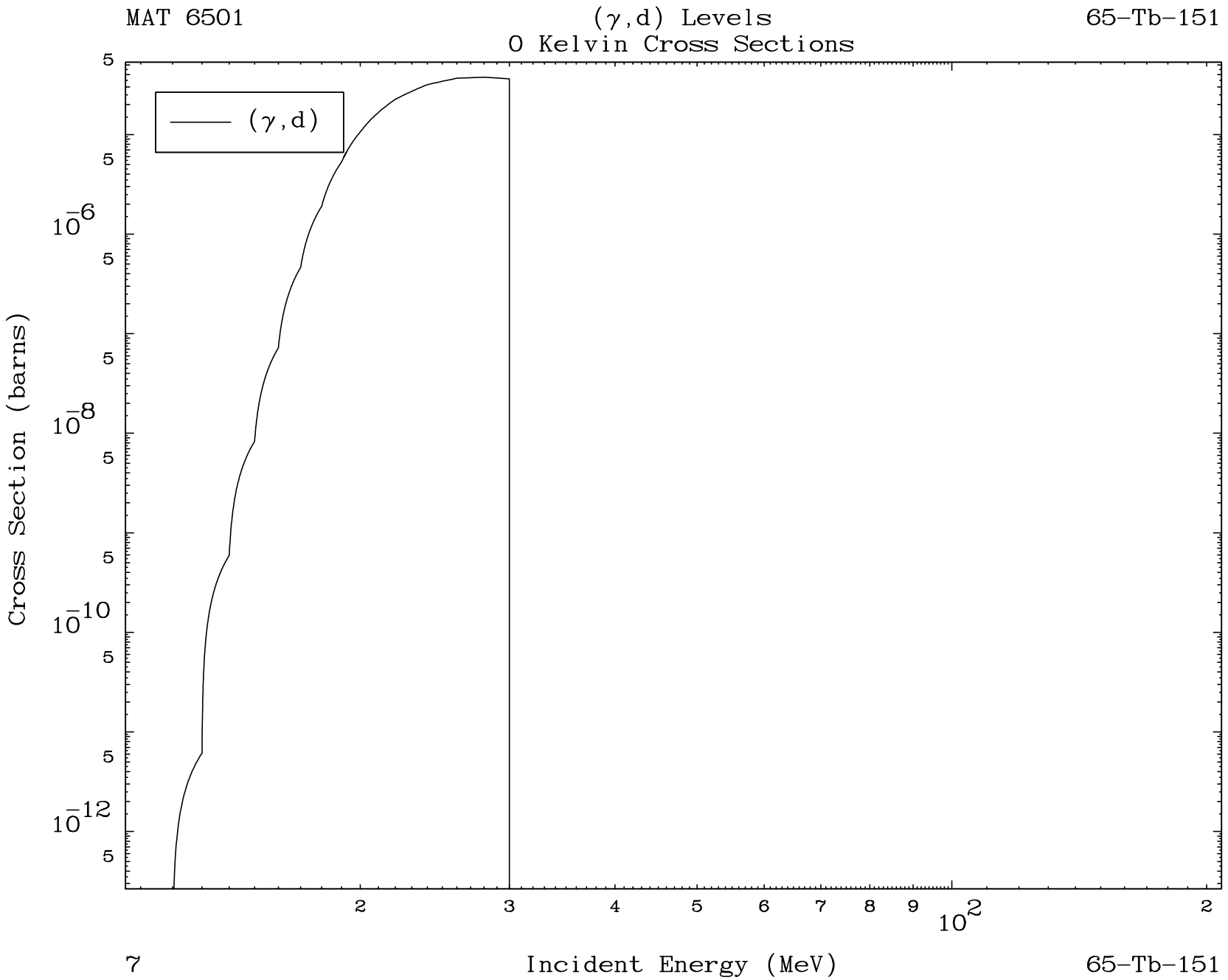

MAT 6501
Photon Neutron Production
0 Kelvin Cross Sections
65-Tb-151
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
Cross Section (barns)
Incident Energy (MeV)
65-Tb-151

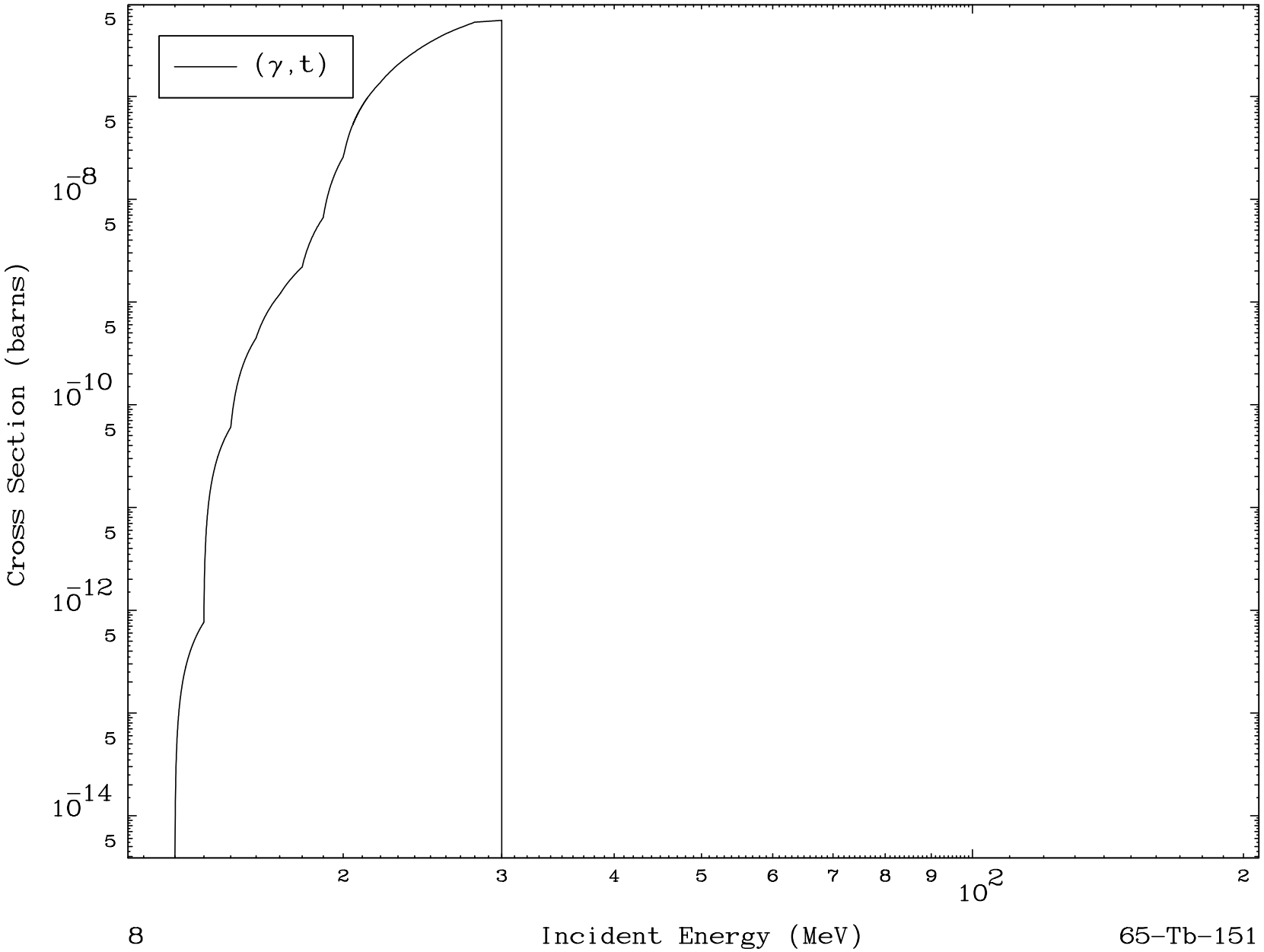

MAT 6501
Photon Charged Particle
0 Kelvin Cross Sections
65-Tb-151
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
(γ,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
101
102
3
65-Tb-151

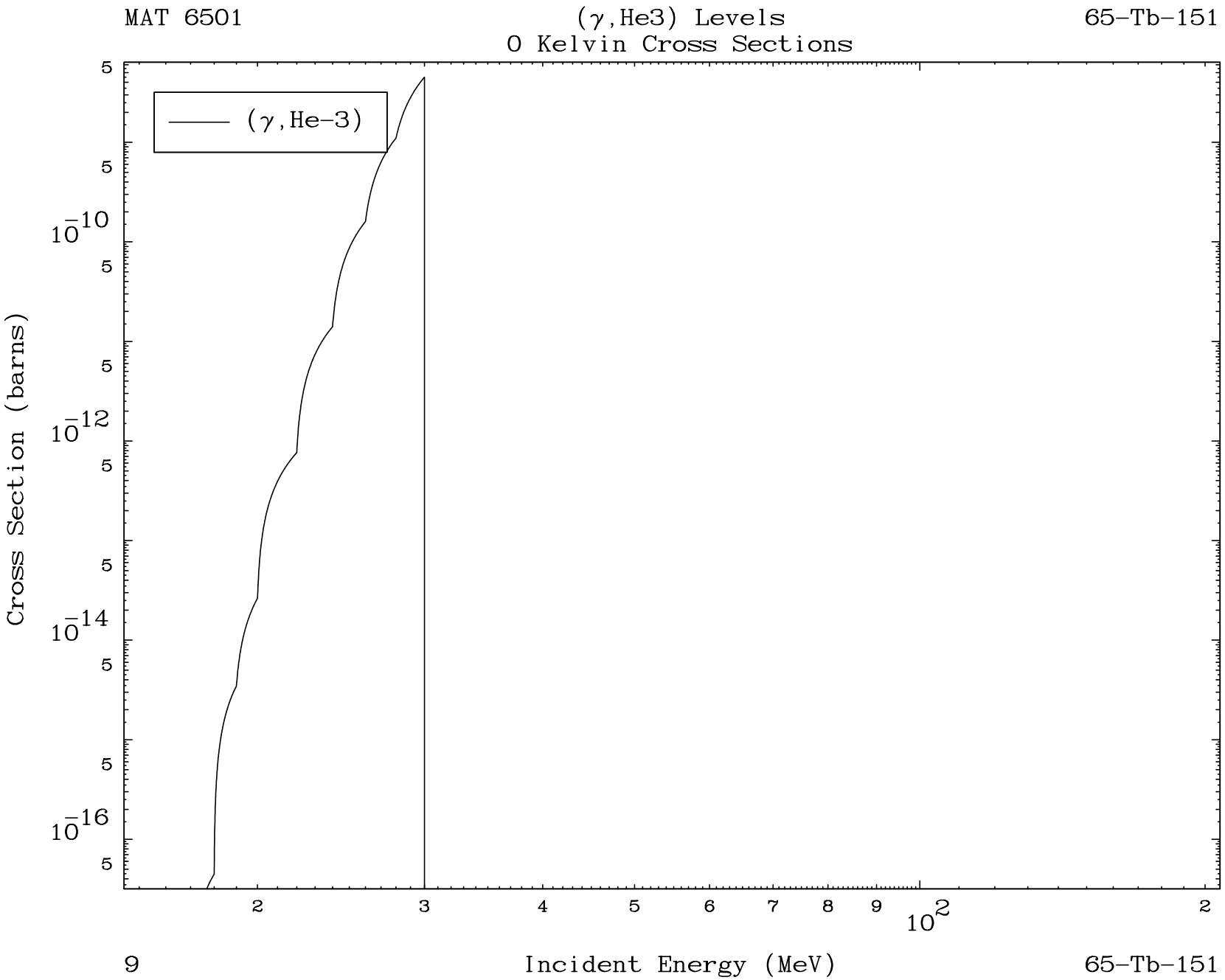

MAT 6501
Photon Charged Particle
0 Kelvin Cross Sections
65-Tb-151
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
Cross Section (barns)
Incident Energy (MeV)
4
65-Tb-151

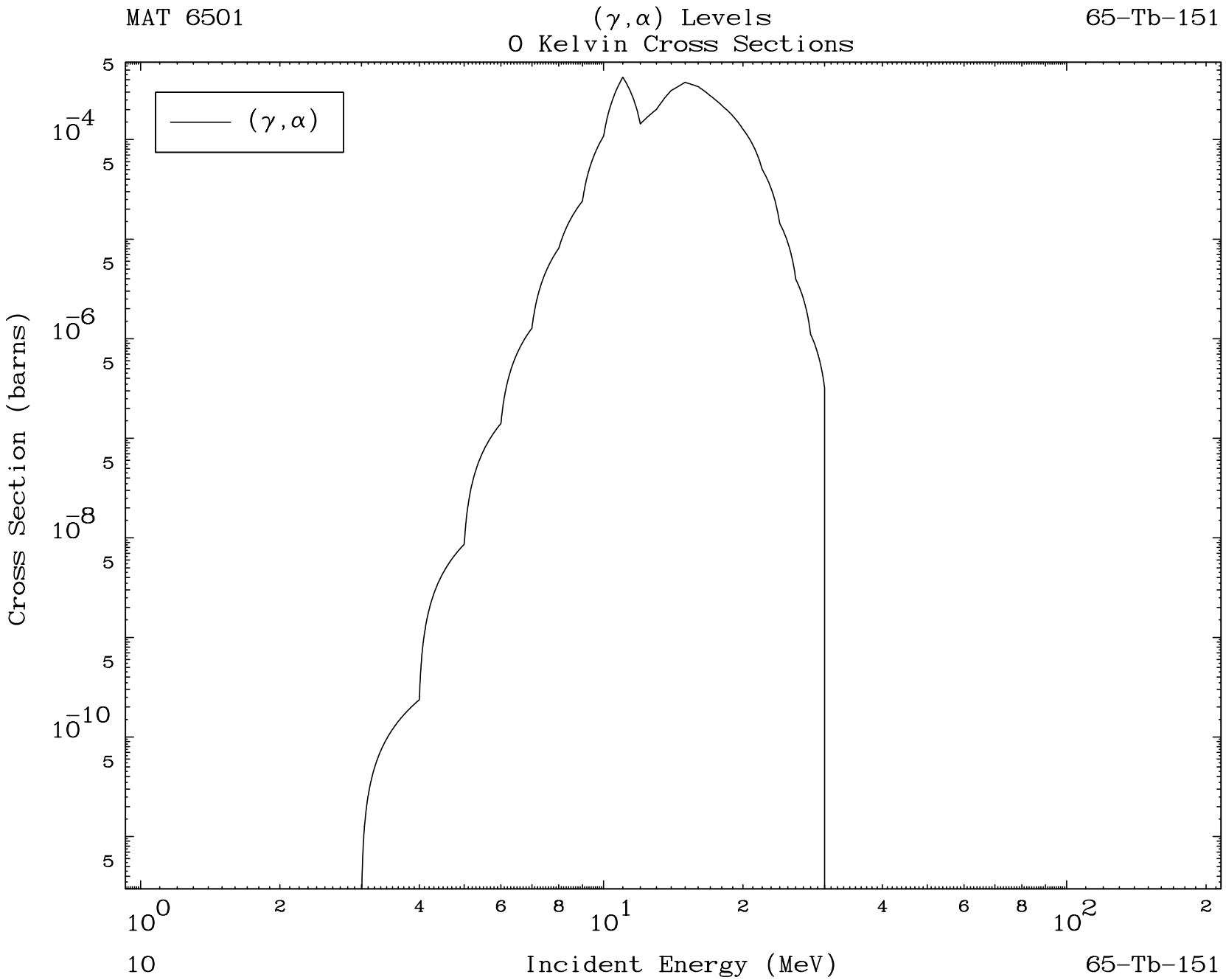

MAT 6501
(γ,n') Level
65-Tb-151
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
65-Tb-151

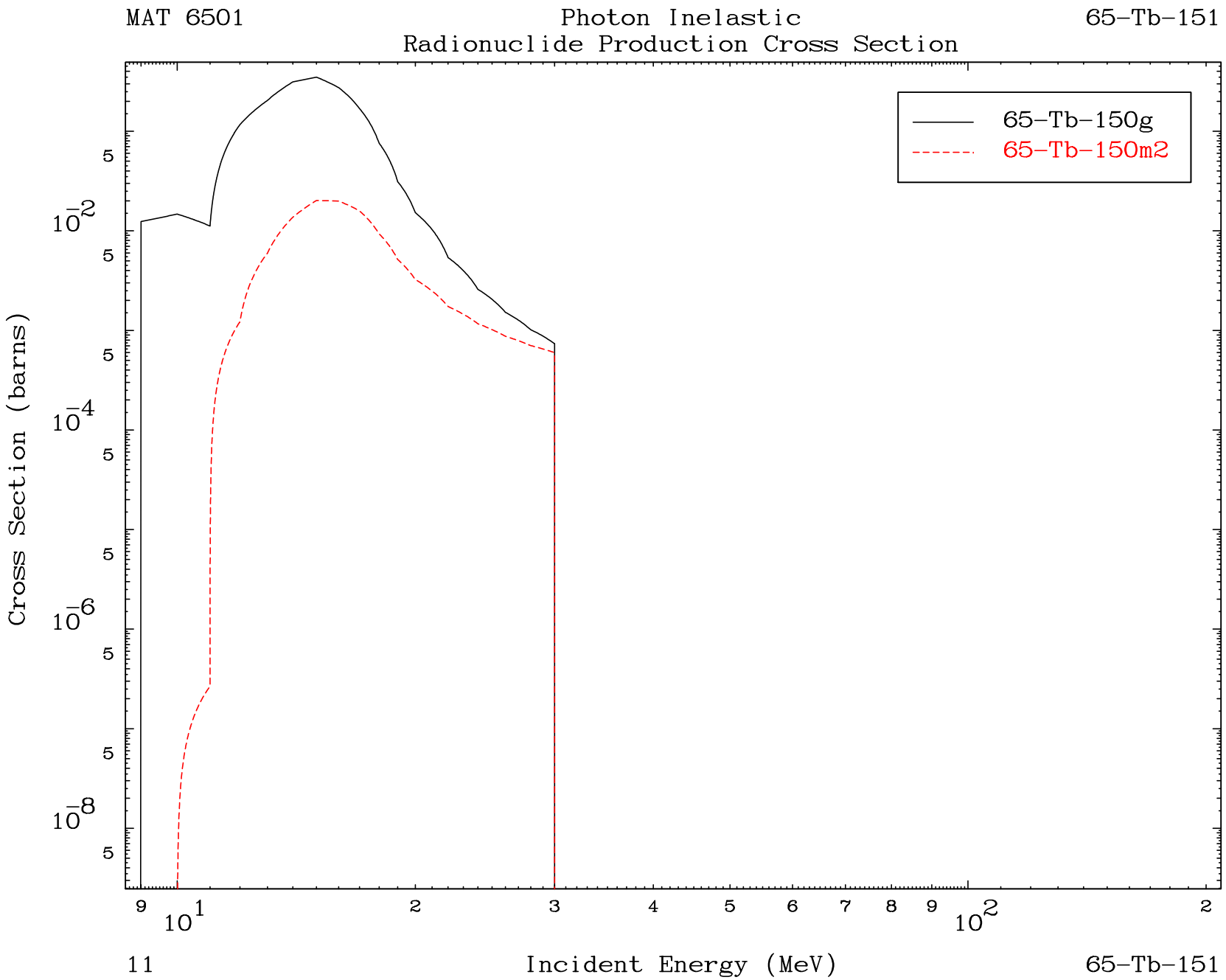

MAT 6501
(γ,p) Levels
65-Tb-151
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
Incident Energy (MeV)
6
65-Tb-151

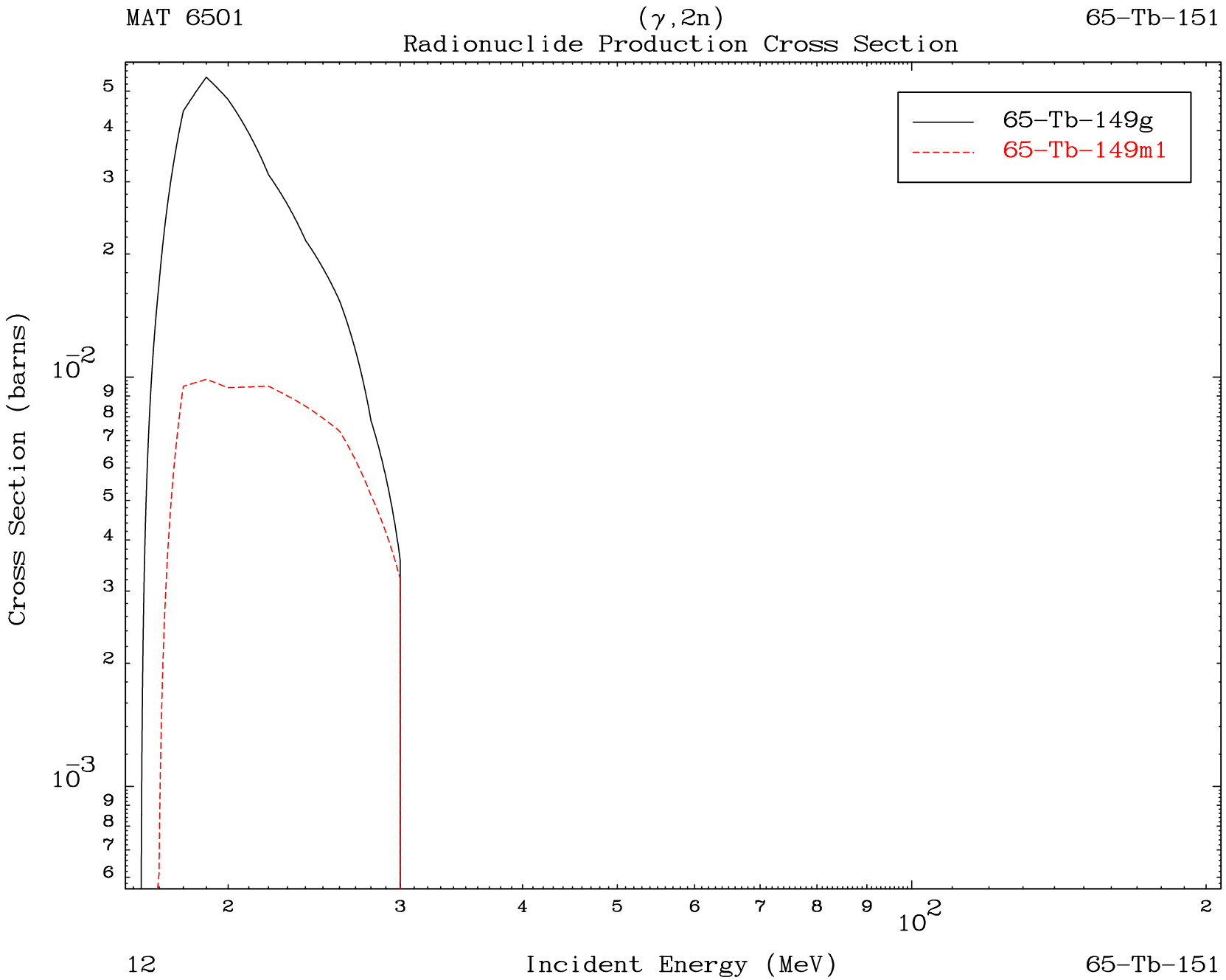

MAT 6501
(γ,d) Levels
65-Tb-151
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
65-Tb-151

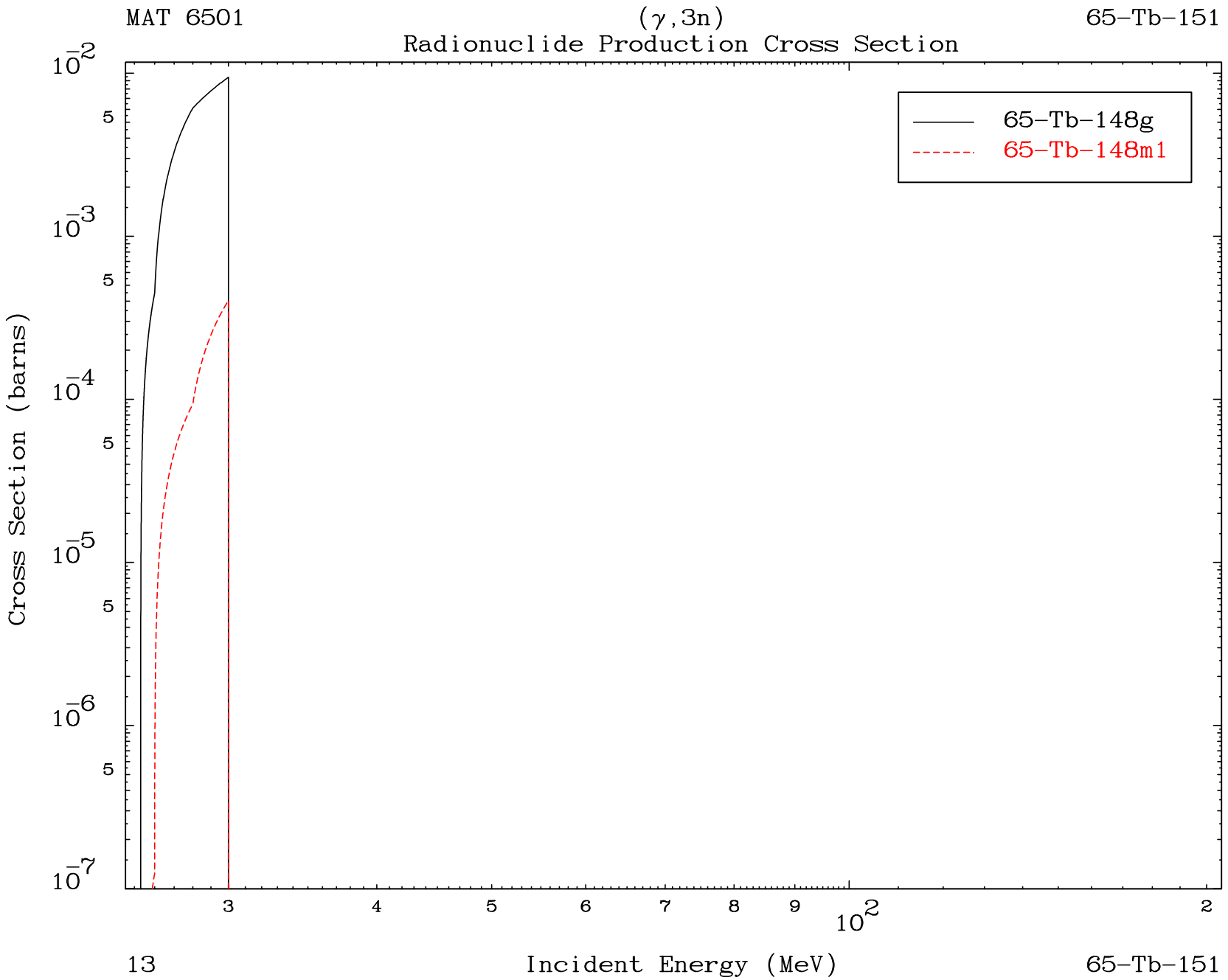

0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
5
5
10^-8
5
5
10^-10
5
5
10^-12
5
5
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

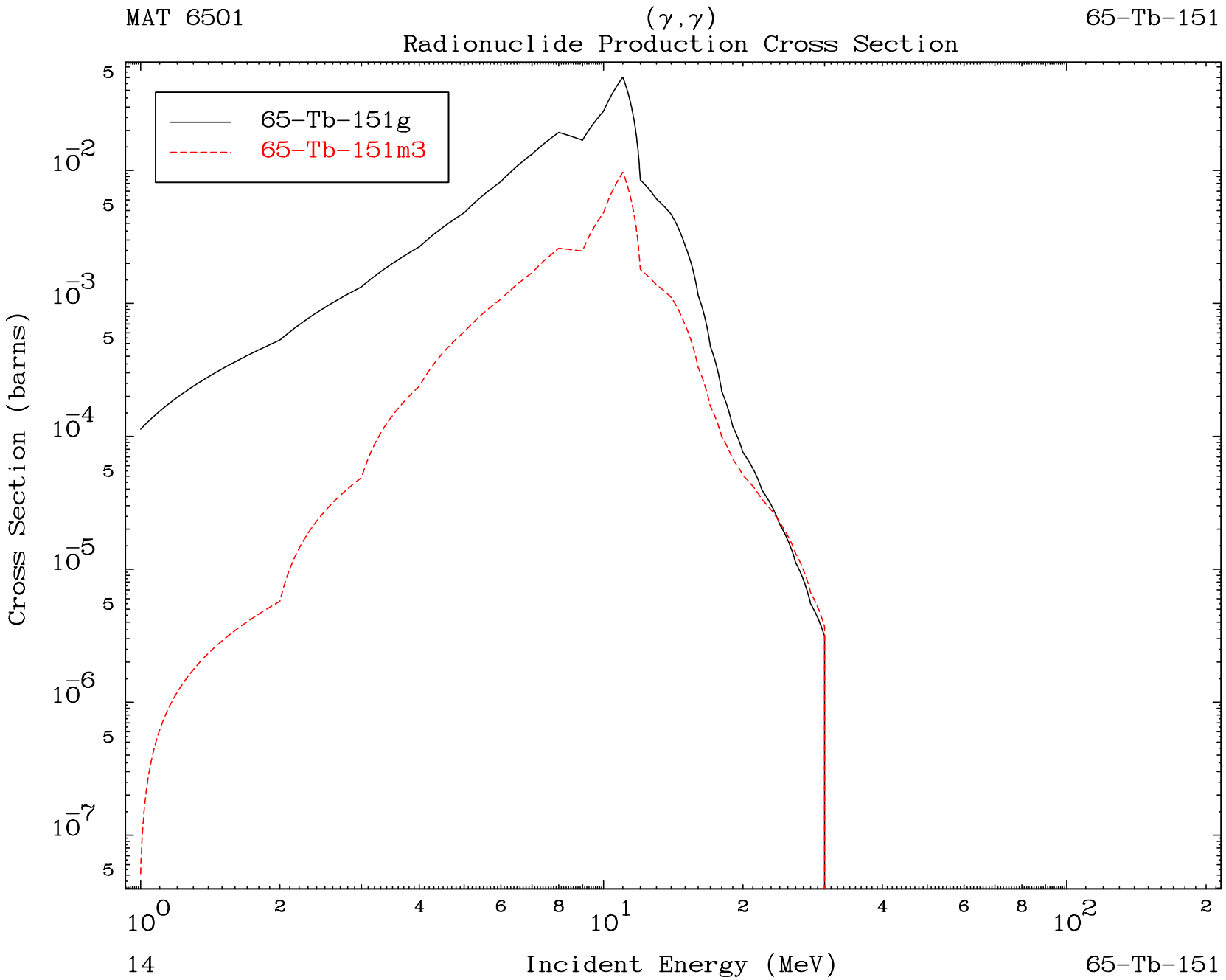

MAT 6501
(γ,He3) Levels
65-Tb-151
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
9
65-Tb-151


MAT 6501
(γ,α) Levels
65-Tb-151
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
Incident Energy (MeV)
65-Tb-151


MAT 6501
Photon Inelastic
65-Tb-151
Radionuclide Production Cross Section
65-Tb-150g
65-Tb-150m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
65-Tb-151


MAT 6501
(γ,2n)
65-Tb-151
Radionuclide Production Cross Section
65-Tb-149g
65-Tb-149m1
Cross Section (barns)
Incident Energy (MeV)
12
65-Tb-151


MAT 6501
(γ,3n)
65-Tb-151
Radionuclide Production Cross Section
65-Tb-148g
65-Tb-148m1
Cross Section (barns)
10-2
10-3
10-4
10-5
10-6
10-7
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
65-Tb-151


MAT 6501
(γ,γ)
65-Tb-151
Radionuclide Production Cross Section
65-Tb-151g
65-Tb-151m3
Cross Section (barns)
Incident Energy (MeV)
14
65-Tb-151