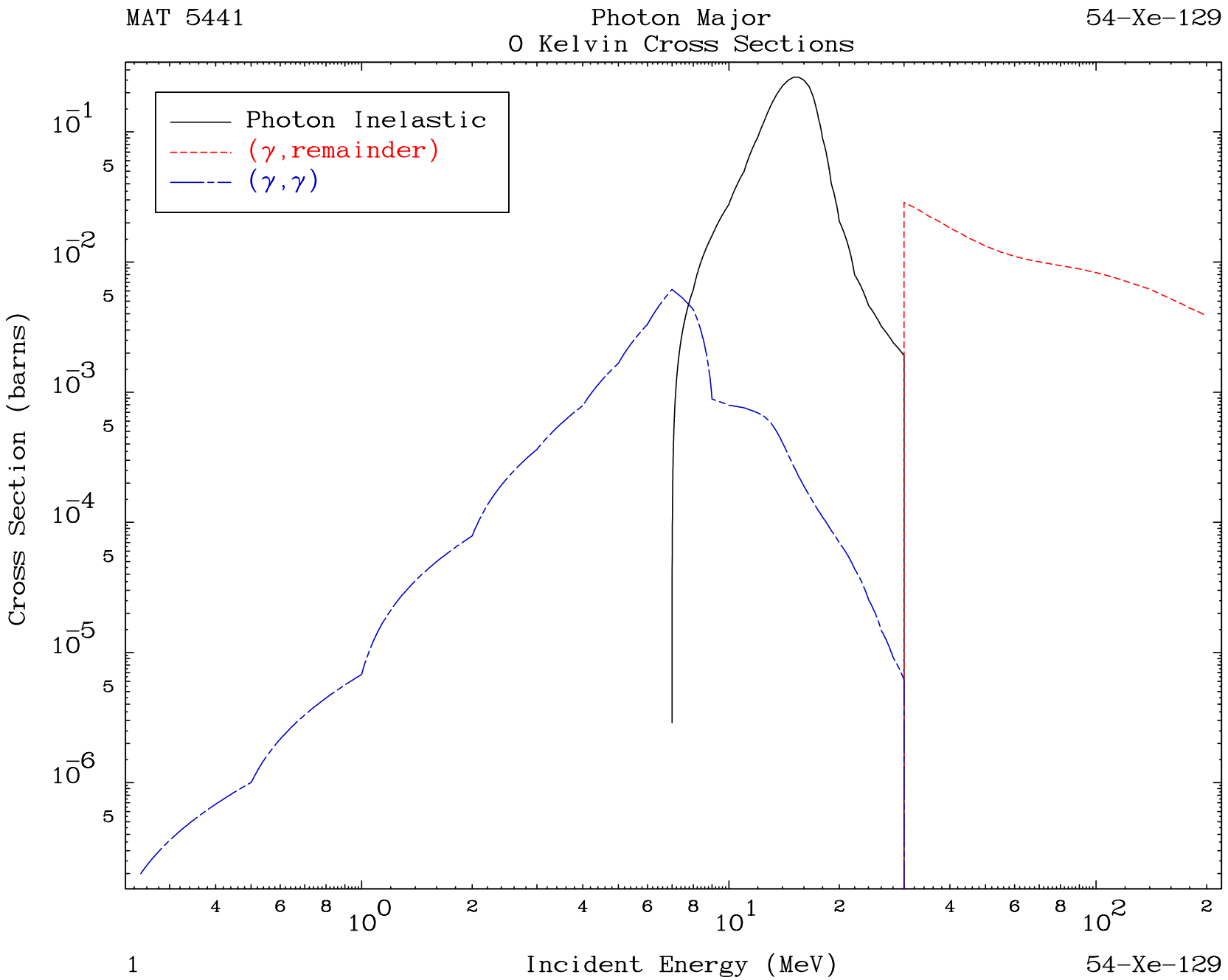
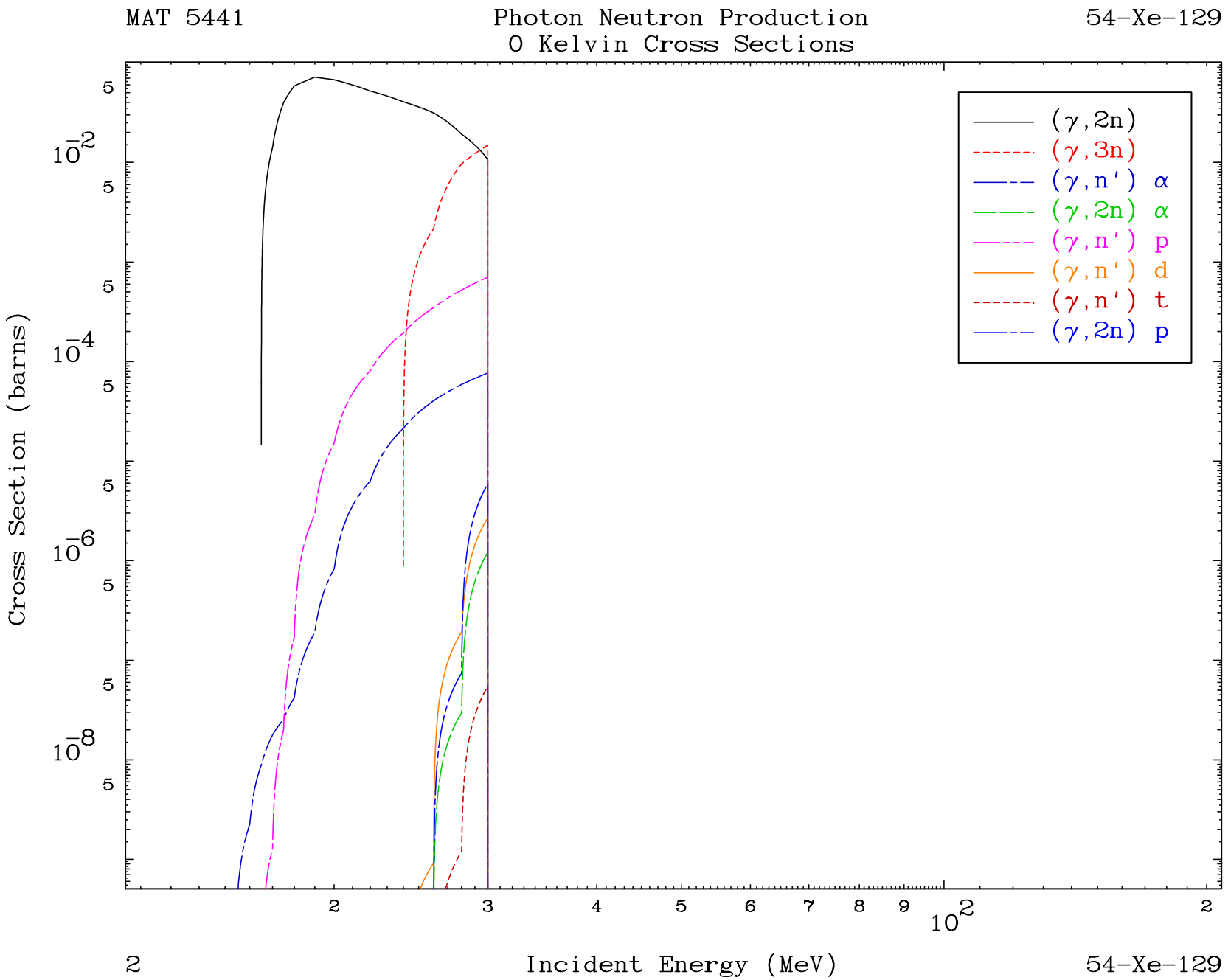
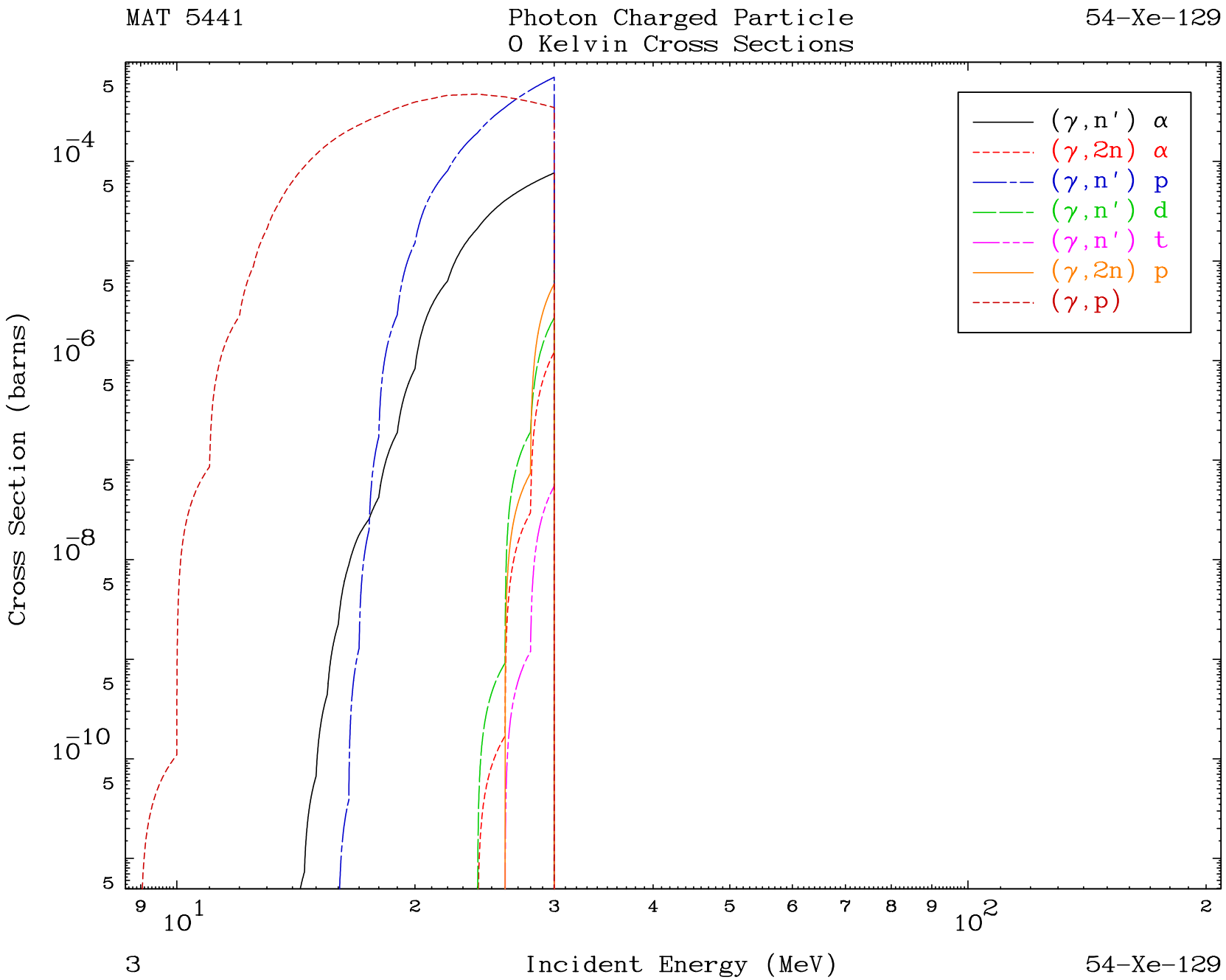
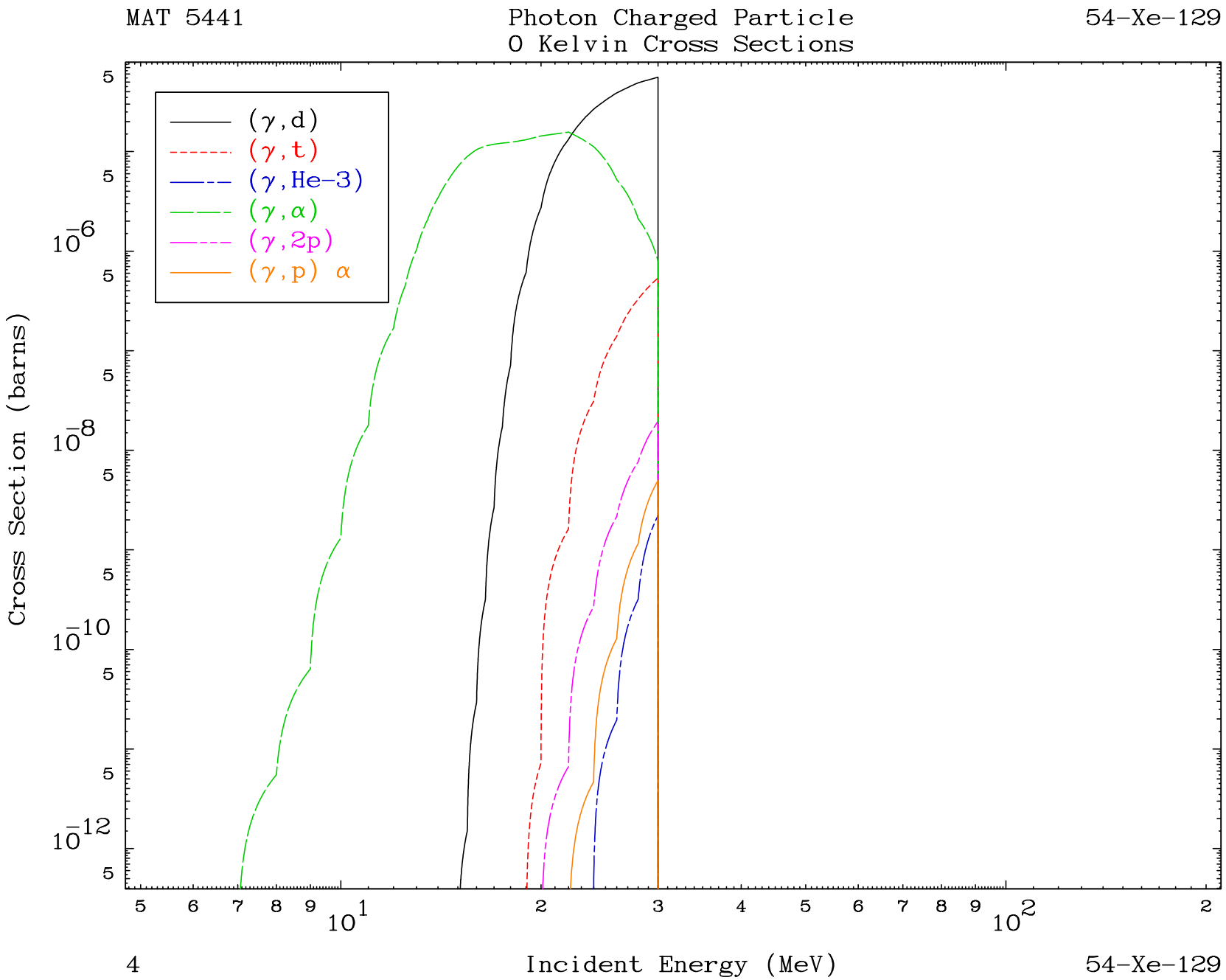
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

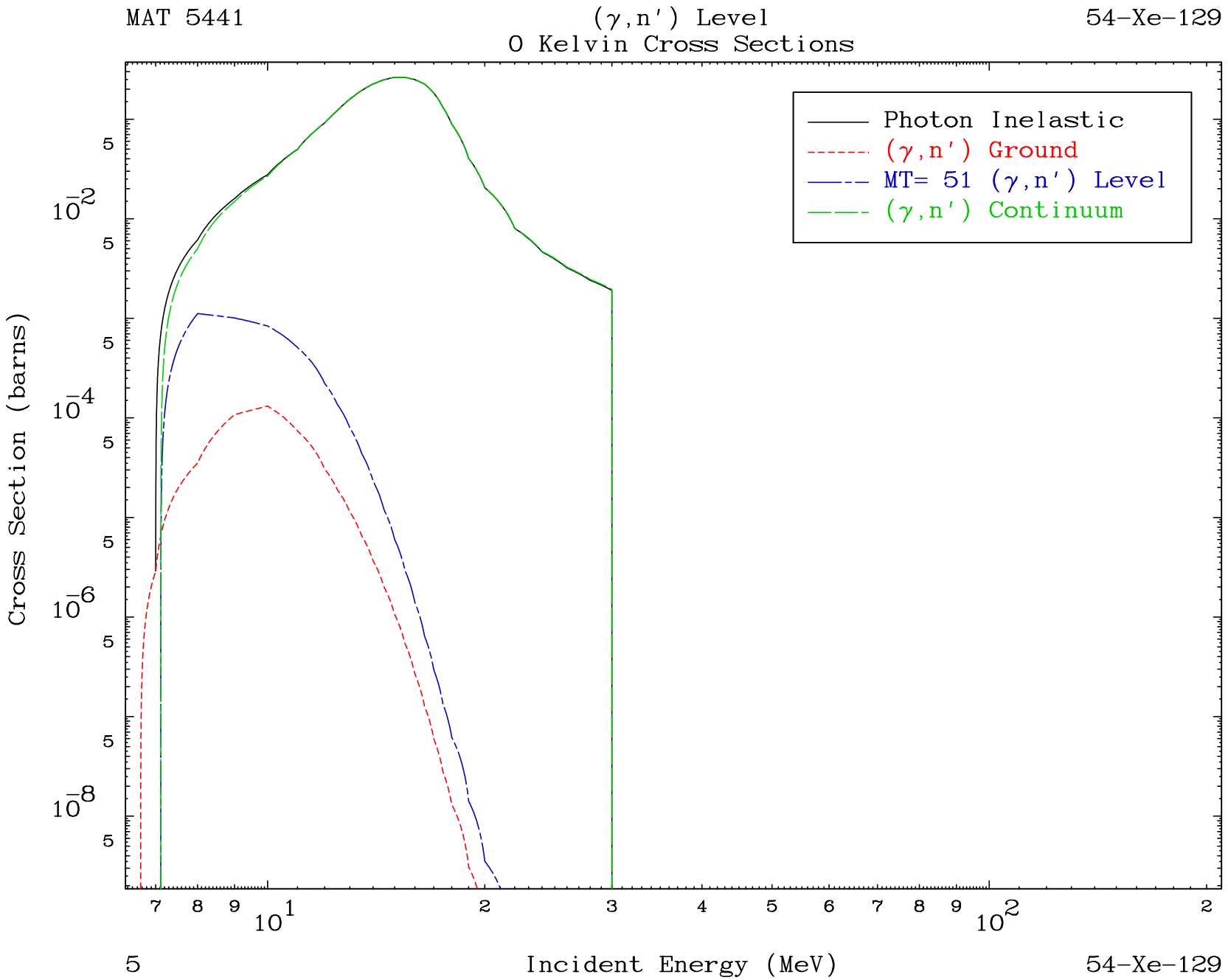
Press Mouse Button to Start

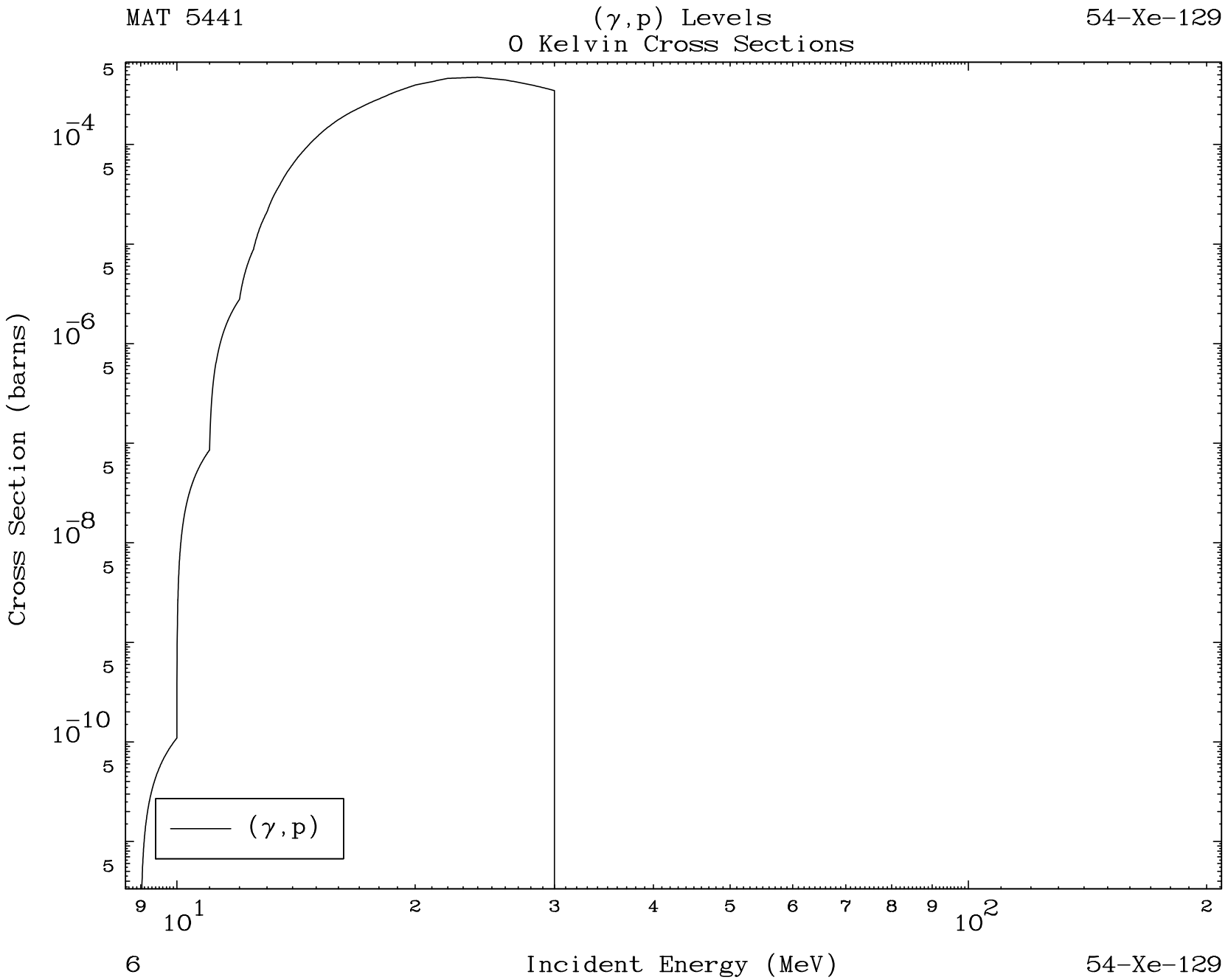

MAT 5441
Photon Major
54-Xe-129
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
54-Xe-129
1

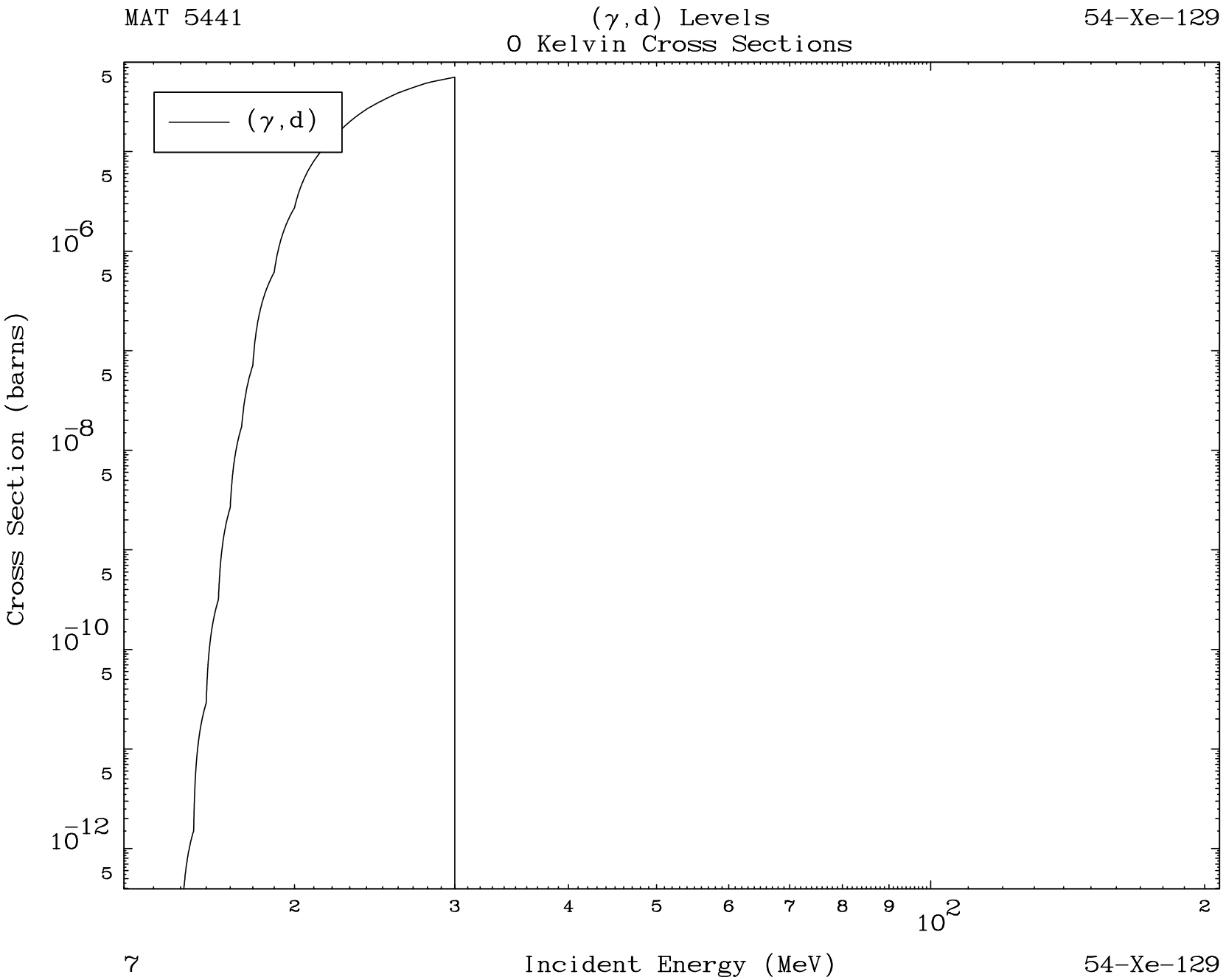

MAT 5441
Photon Neutron Production
0 Kelvin Cross Sections
54-Xe-129
Cross Section (barns)
Incident Energy (MeV)
54-Xe-129
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p


MAT 5441
Photon Charged Particle
0 Kelvin Cross Sections
54-Xe-129
Cross Section (barns)
Incident Energy (MeV)
54-Xe-129
3
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)

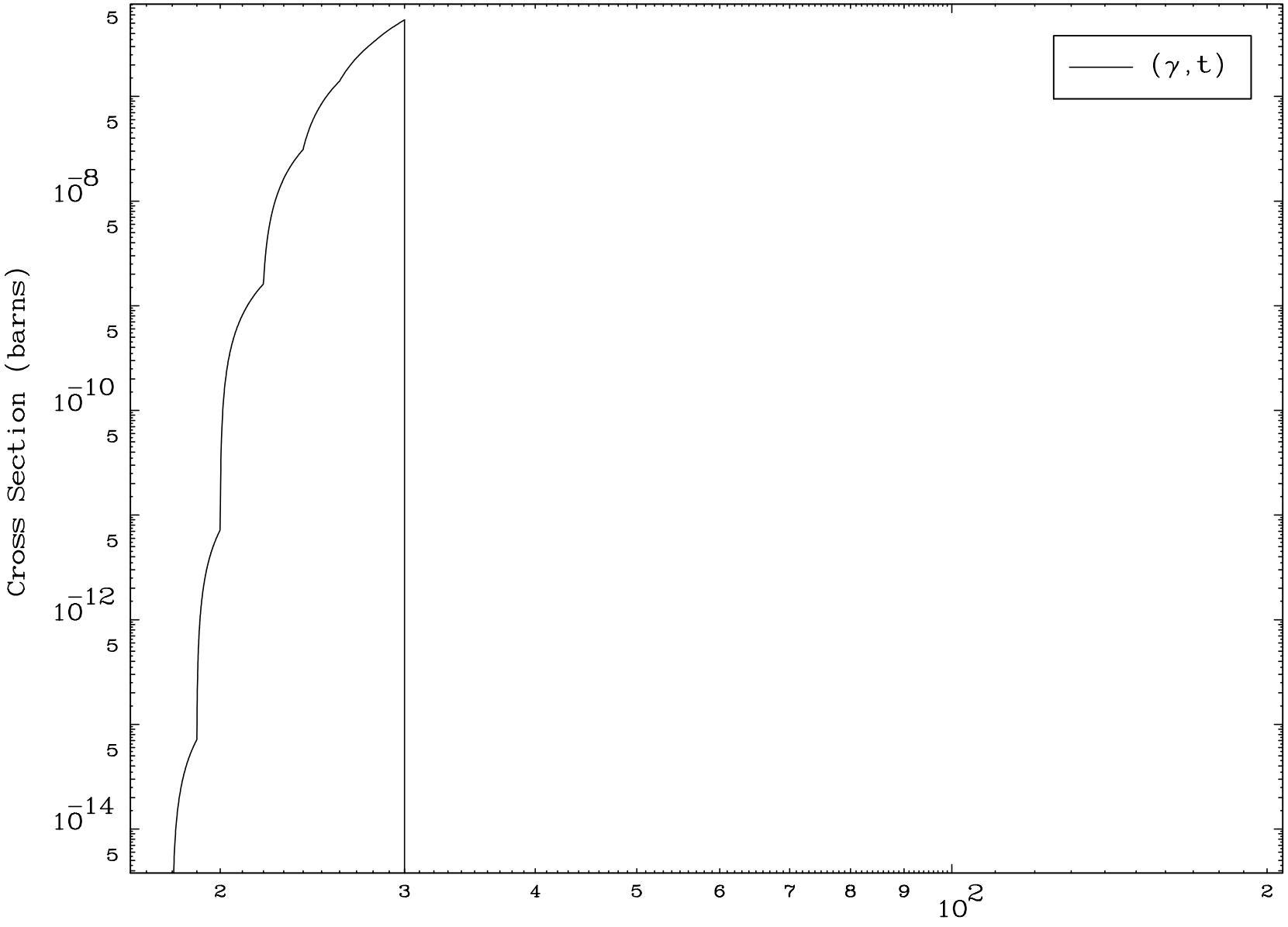

MAT 5441
Photon Charged Particle
0 Kelvin Cross Sections
54-Xe-129
(γ,d)
(γ,t)
(γ,He-3)
(γ,α)
(γ,2p)
(γ,p) α
Cross Section (barns)
Incident Energy (MeV)
54-Xe-129
4


MAT 5441
(γ,n') Level
54-Xe-129
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
5
54-Xe-129

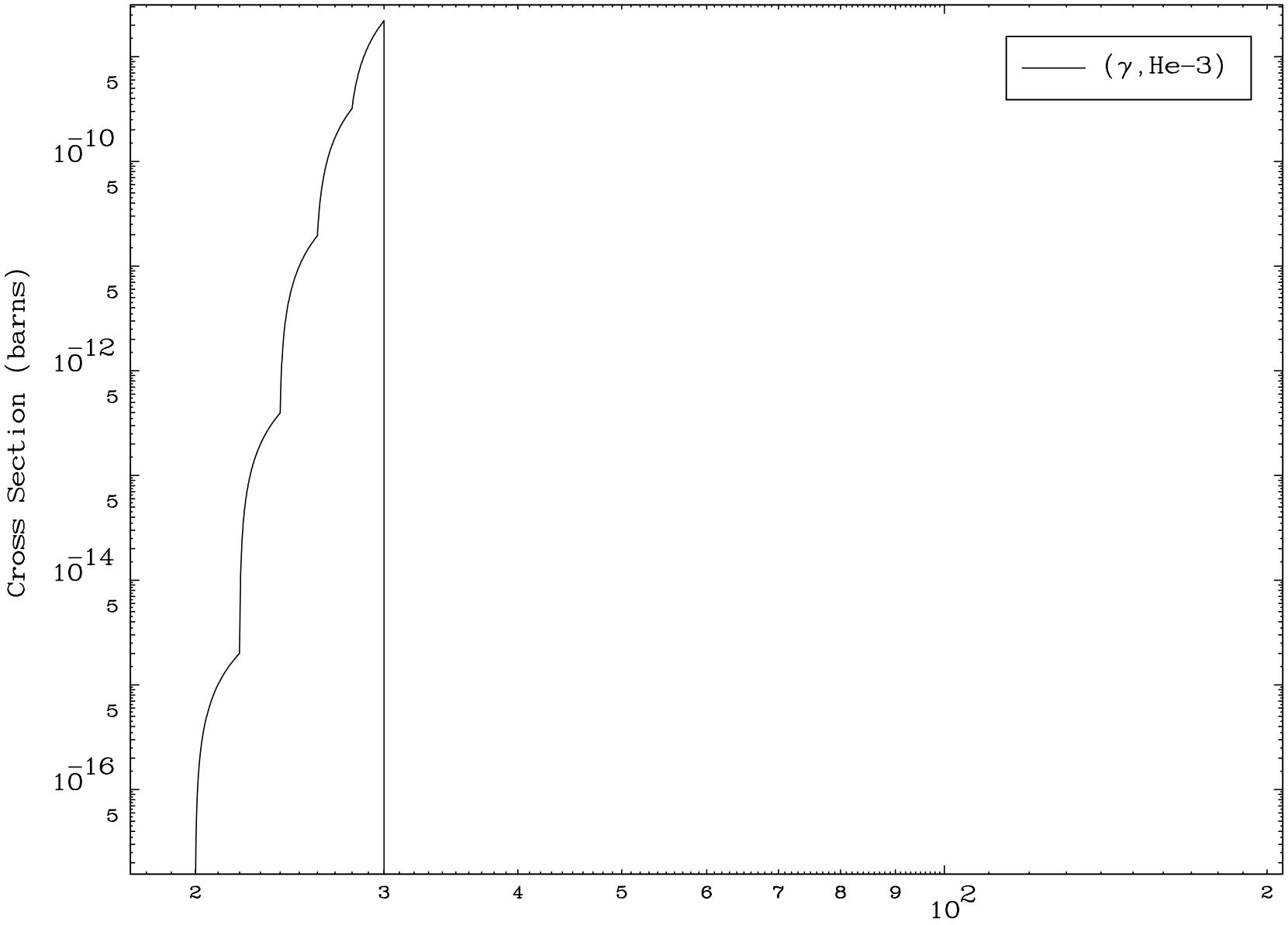

MAT 5441
(γ,p) Levels
54-Xe-129
0 Kelvin Cross Sections
Cross Section (barns)
10-4
10-6
10-8
10-10
(γ,p)
9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
54-Xe-129

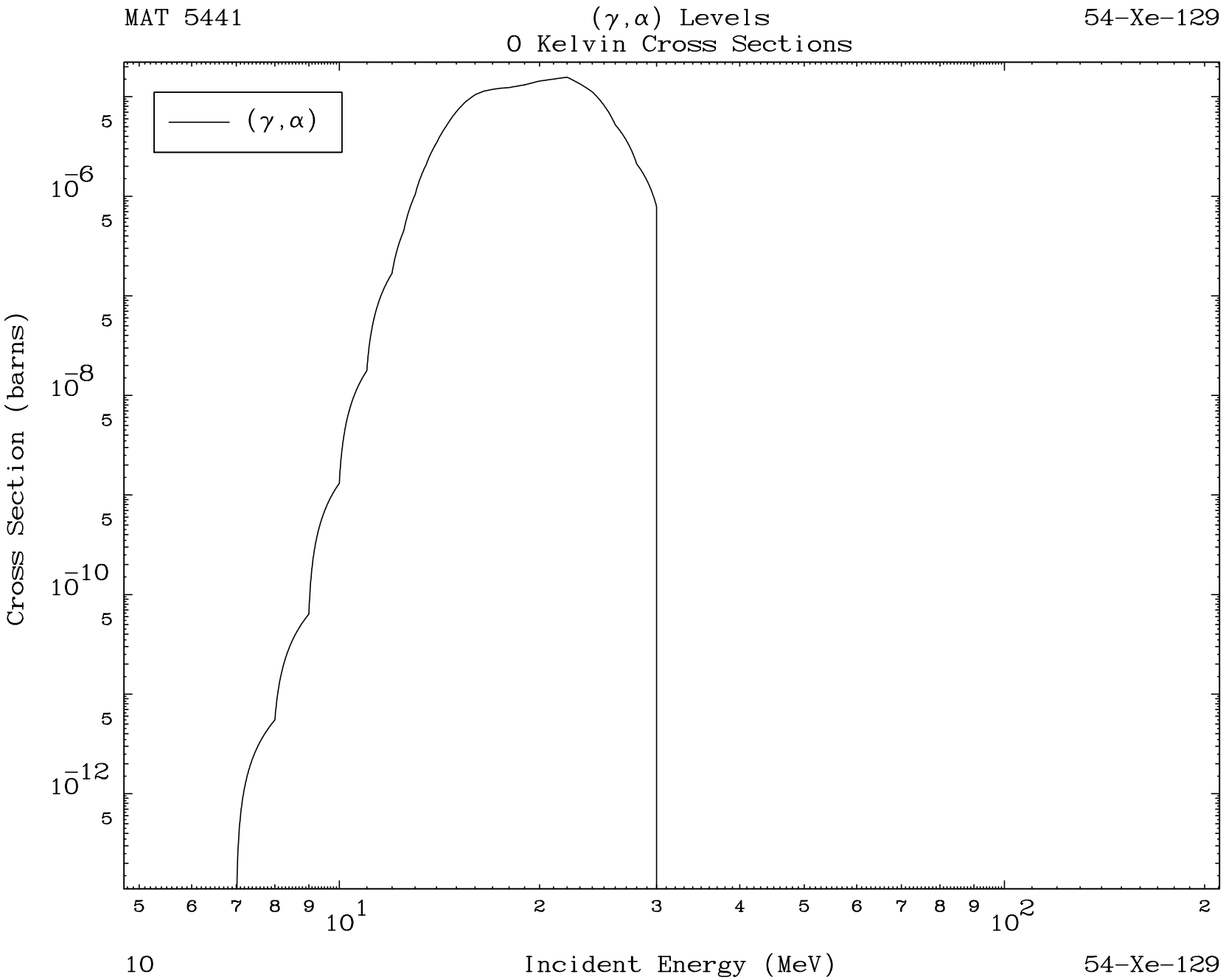

MAT 5441
(γ,d) Levels
54-Xe-129
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
5
5
10^-6
5
10^-8
5
10^-10
5
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
54-Xe-129

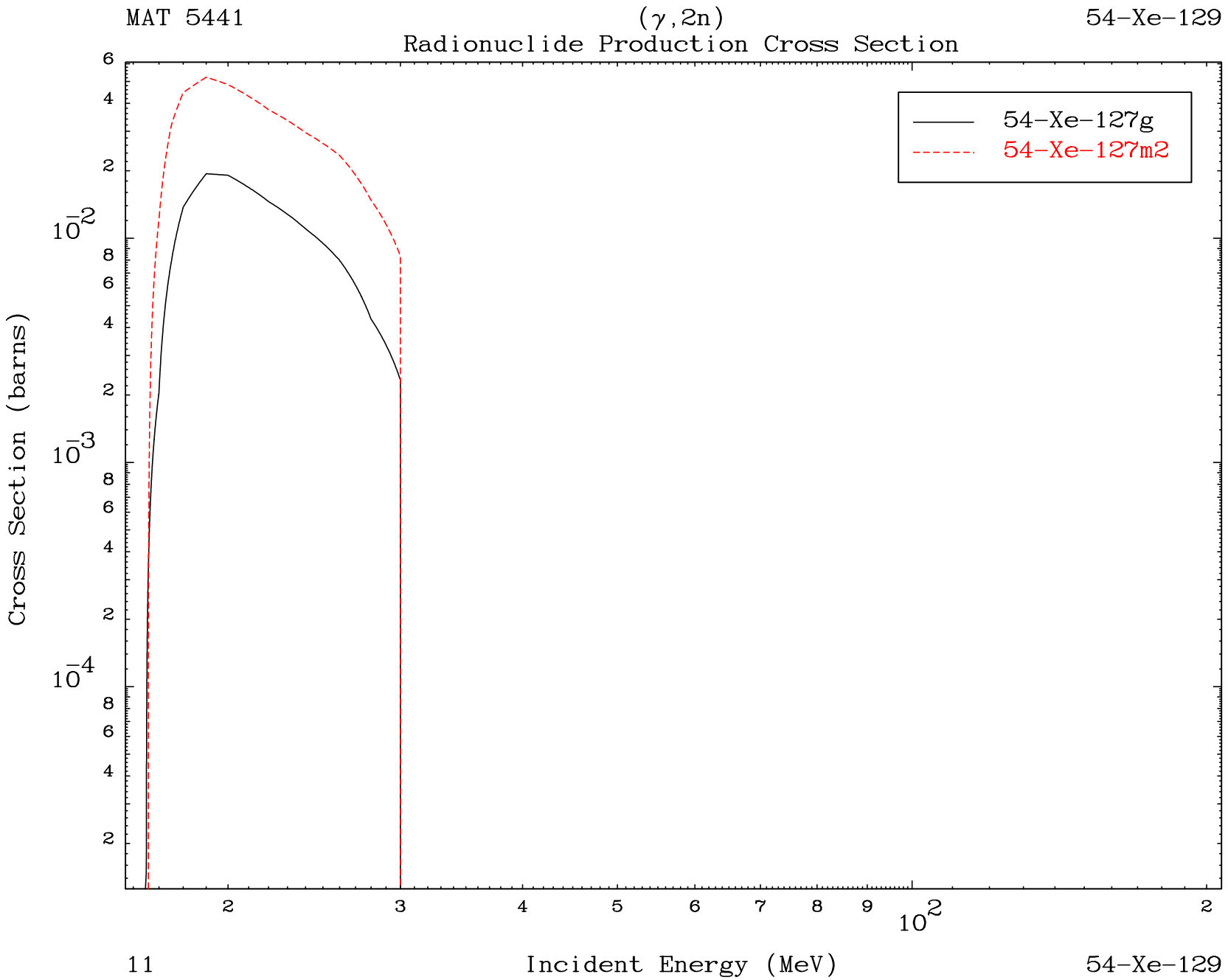
0 Kelvin Cross Sections

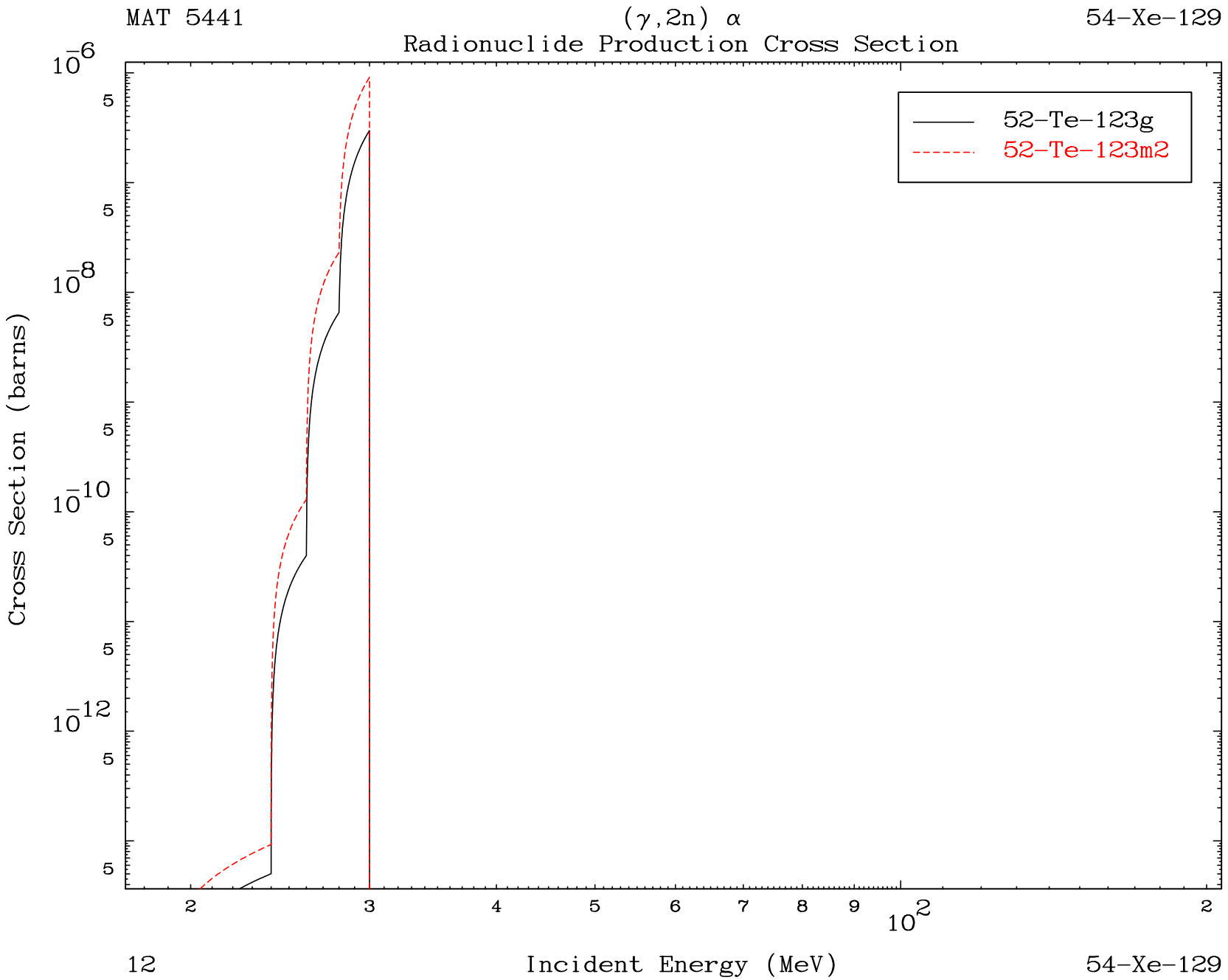


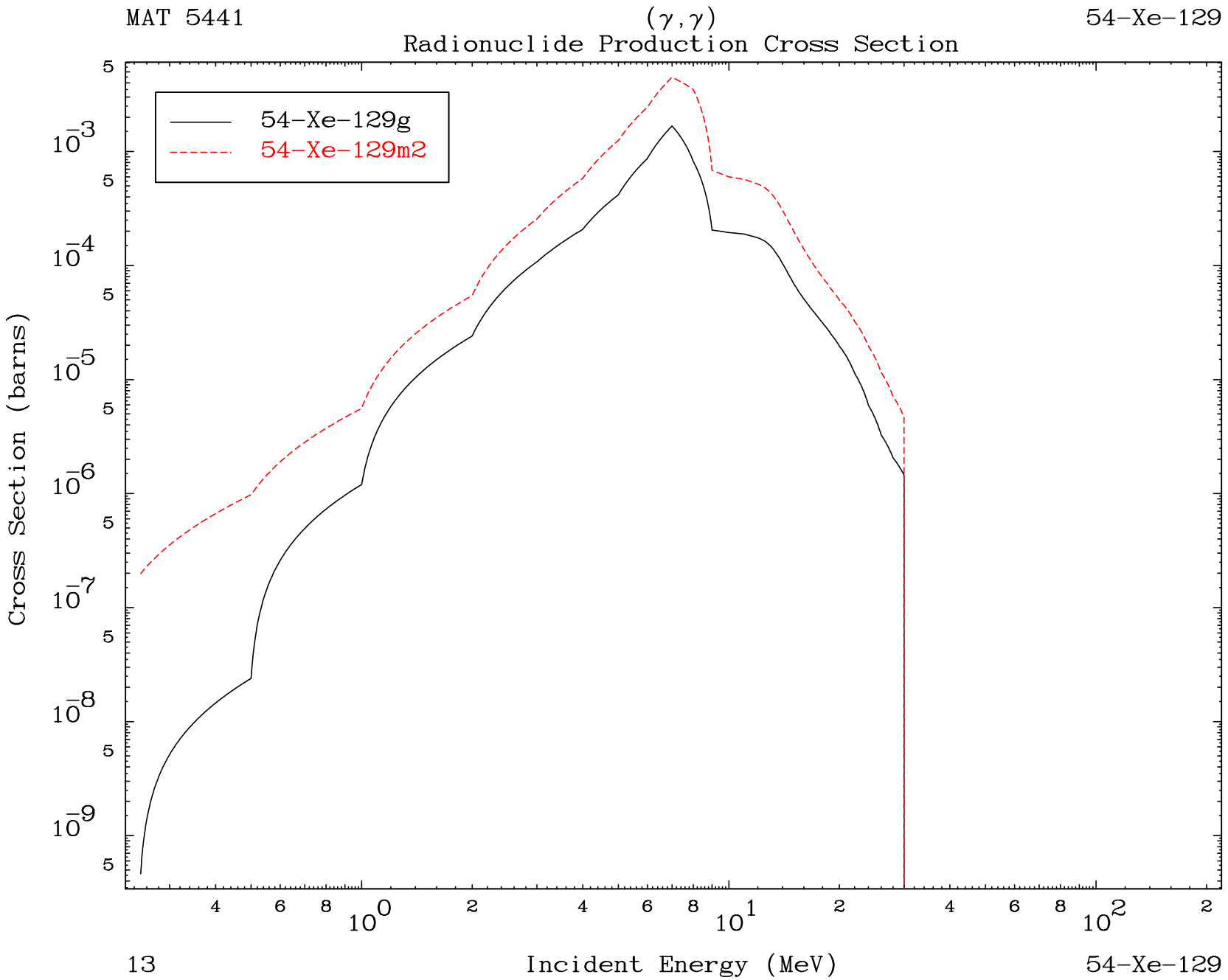
0 Kelvin Cross Sections

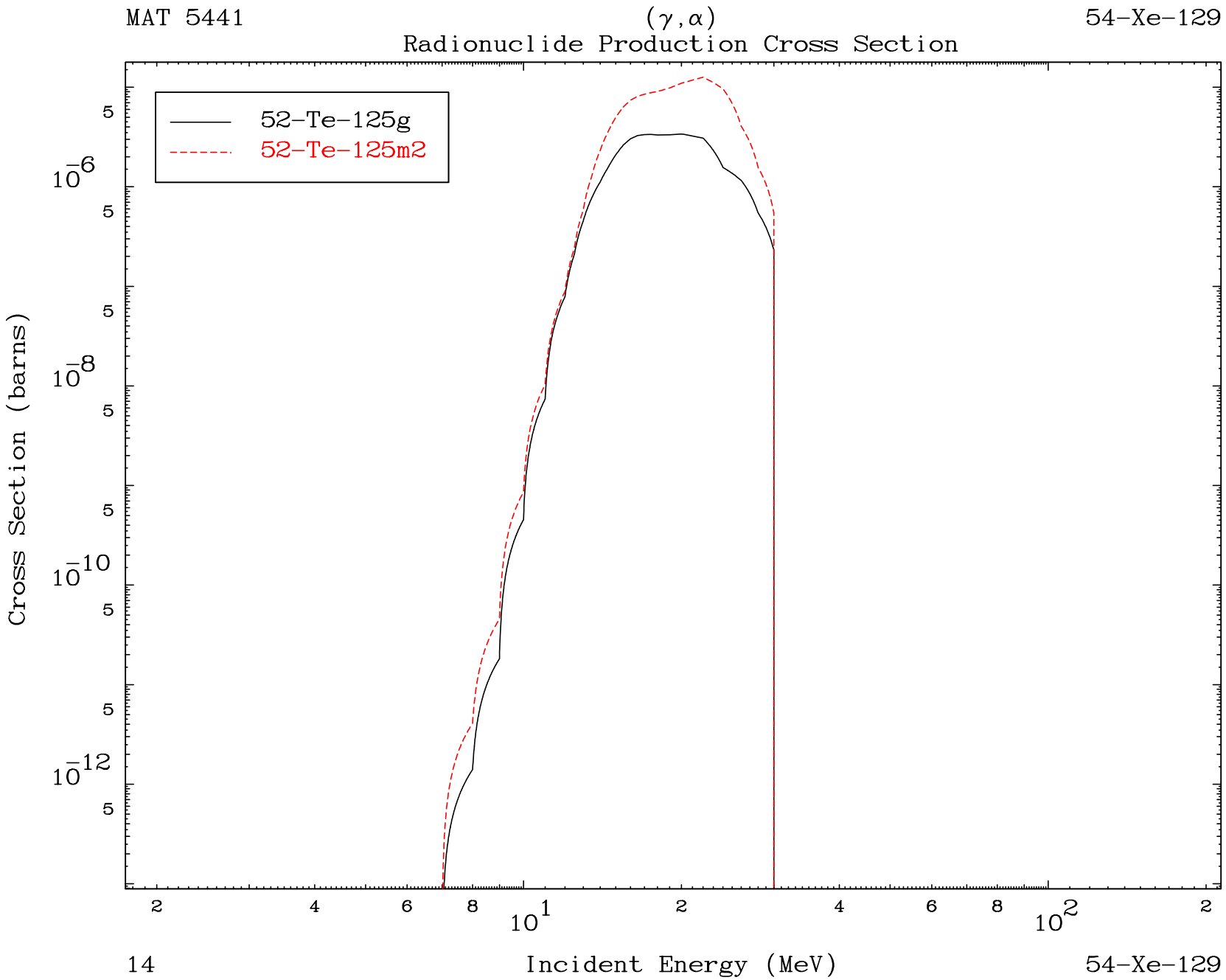


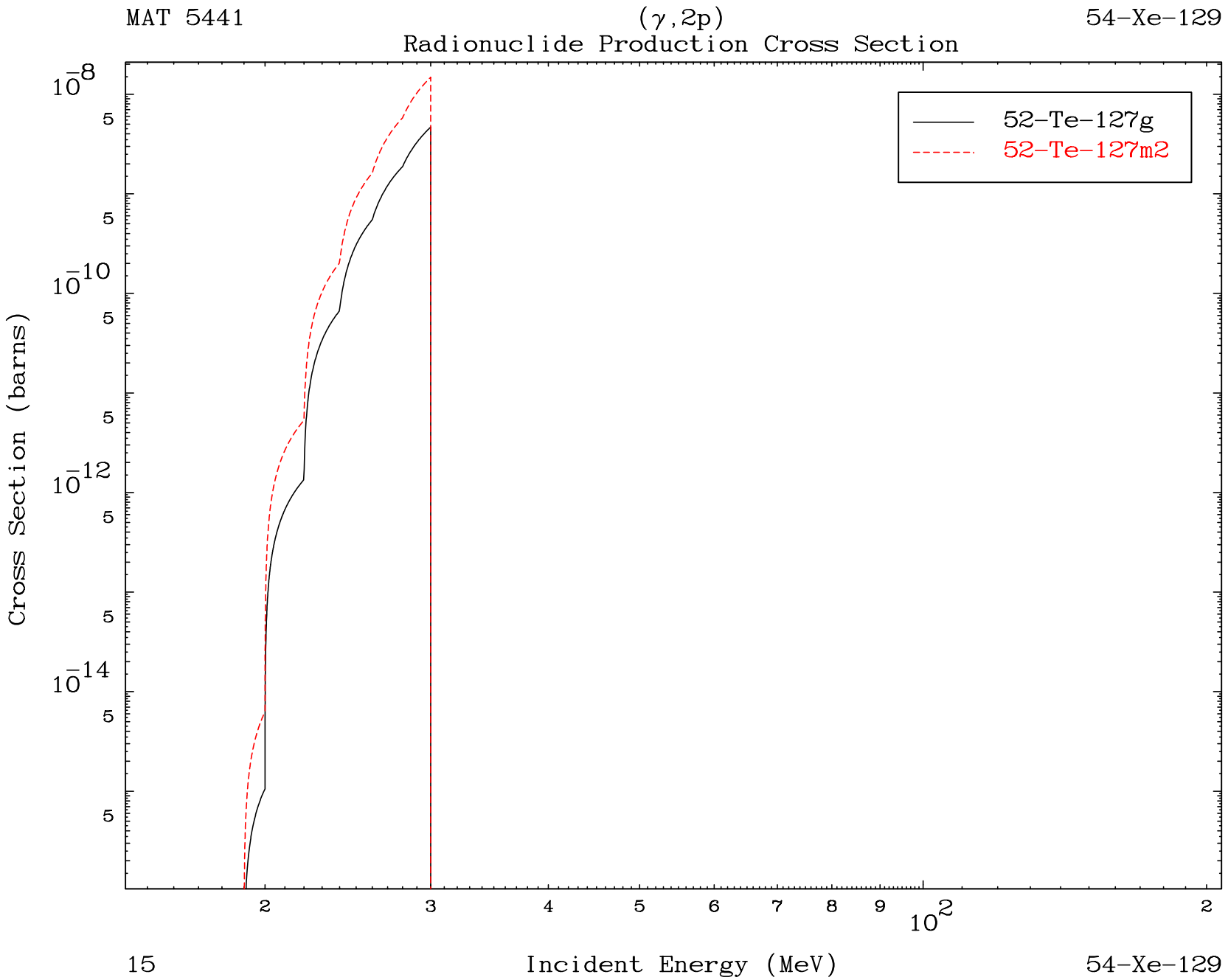

MAT 5441
(γ,α) Levels
54-Xe-129
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^1
2
3
4
10^2
10
Incident Energy (MeV)
54-Xe-129

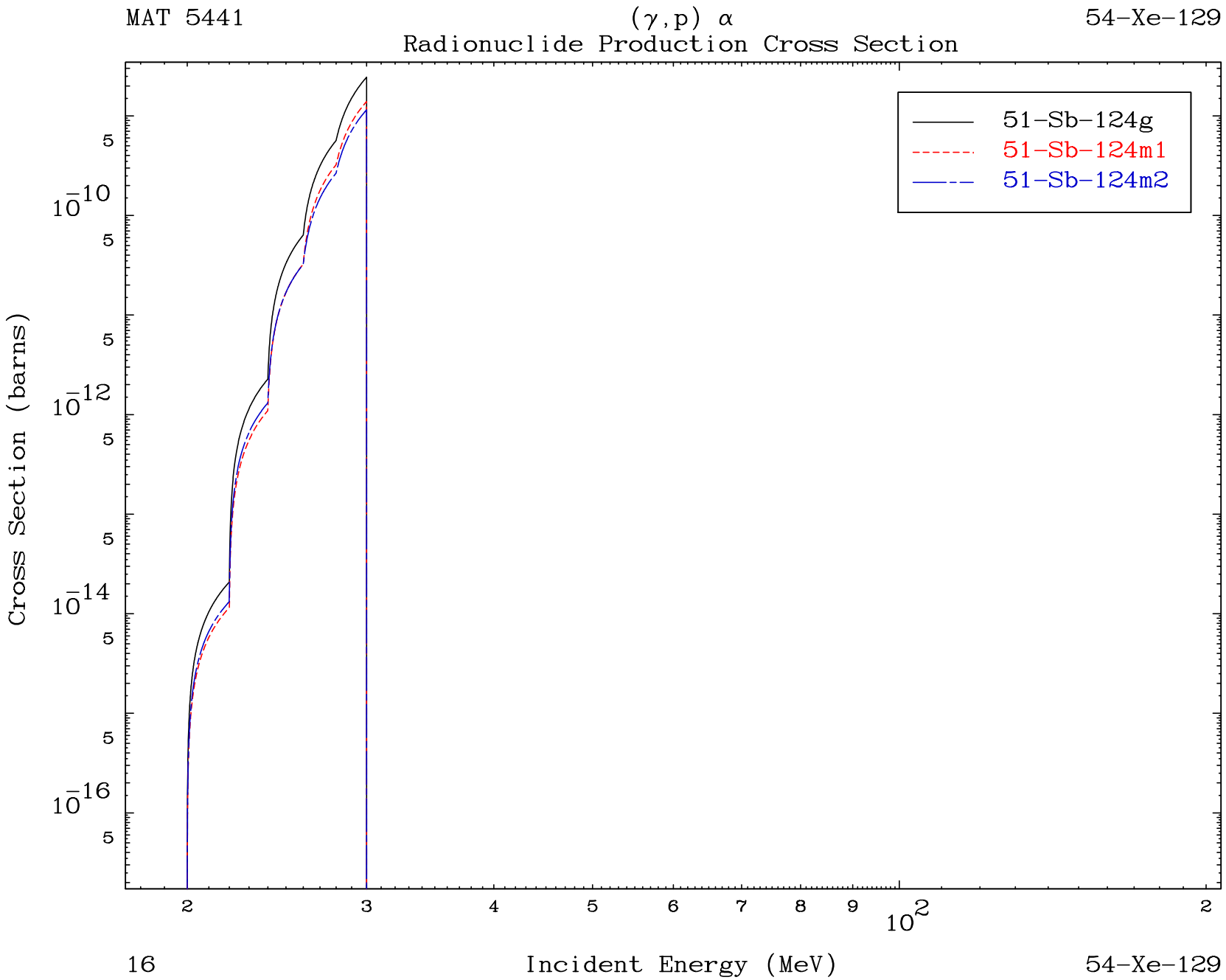

MAT 5441
(γ,2n)
54-Xe-129
Radionuclide Production Cross Section
54-Xe-127g
54-Xe-127m2
Cross Section (barns)
Incident Energy (MeV)
11
54-Xe-129


MAT 5441
(γ,2n) α
54-Xe-129
Radionuclide Production Cross Section
52-Te-123g
52-Te-123m2
Cross Section (barns)
Incident Energy (MeV)
12
54-Xe-129


MAT 5441
(γ,γ)
54-Xe-129
Radionuclide Production Cross Section
54-Xe-129g
54-Xe-129m2
Cross Section (barns)
Incident Energy (MeV)
13
54-Xe-129


MAT 5441
(γ,α)
54-Xe-129
Radionuclide Production Cross Section
52-Te-125g
52-Te-125m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
4
6
8
10^1
2
4
6
8
10^2
2
14
Incident Energy (MeV)
54-Xe-129


MAT 5441
(γ,2p)
54-Xe-129
Radionuclide Production Cross Section
52-Te-127g
52-Te-127m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
15
54-Xe-129


MAT 5441
(γ,p) α
54-Xe-129
Radionuclide Production Cross Section
51-Sb-124g
51-Sb-124m1
51-Sb-124m2
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
16
Incident Energy (MeV)
54-Xe-129