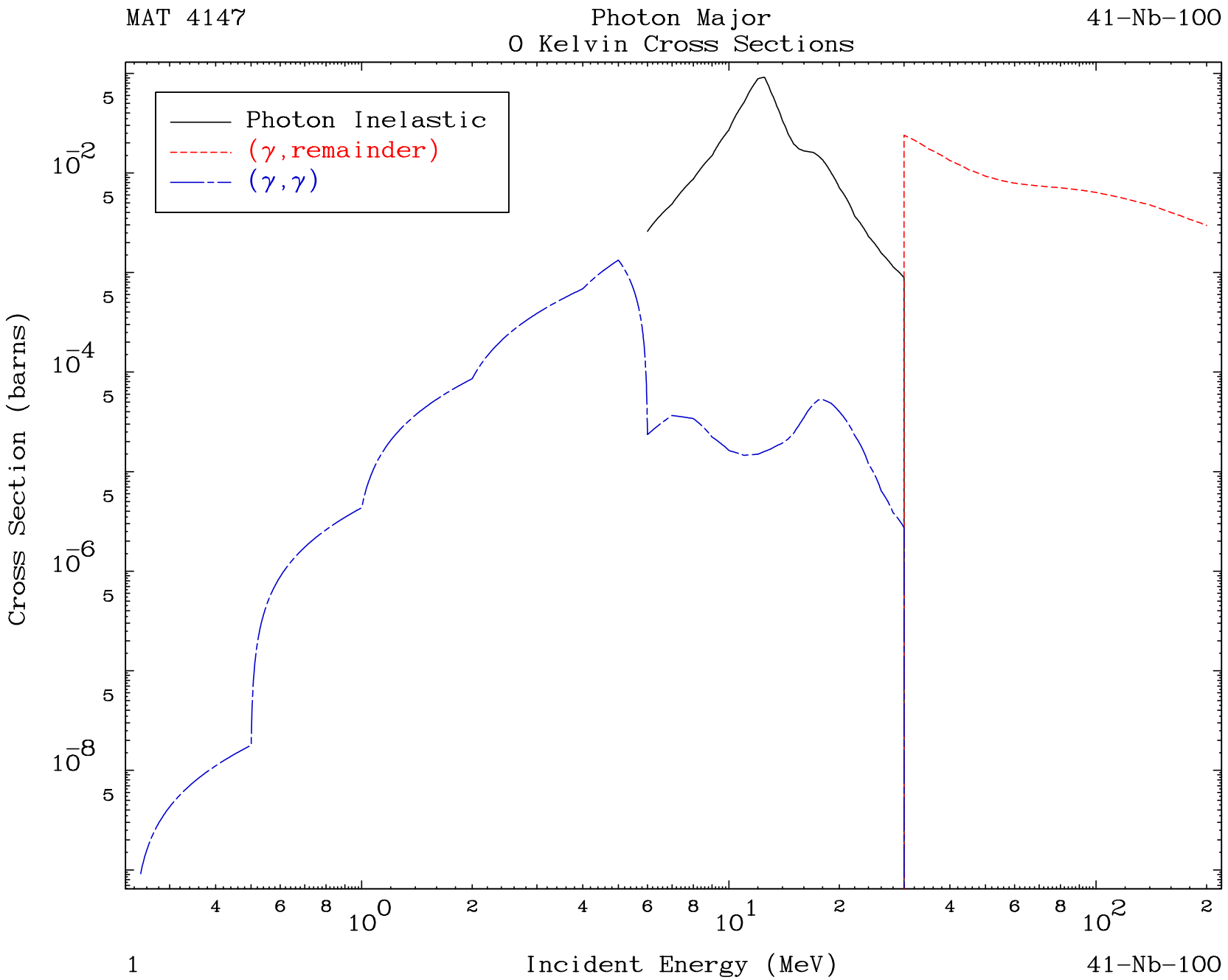
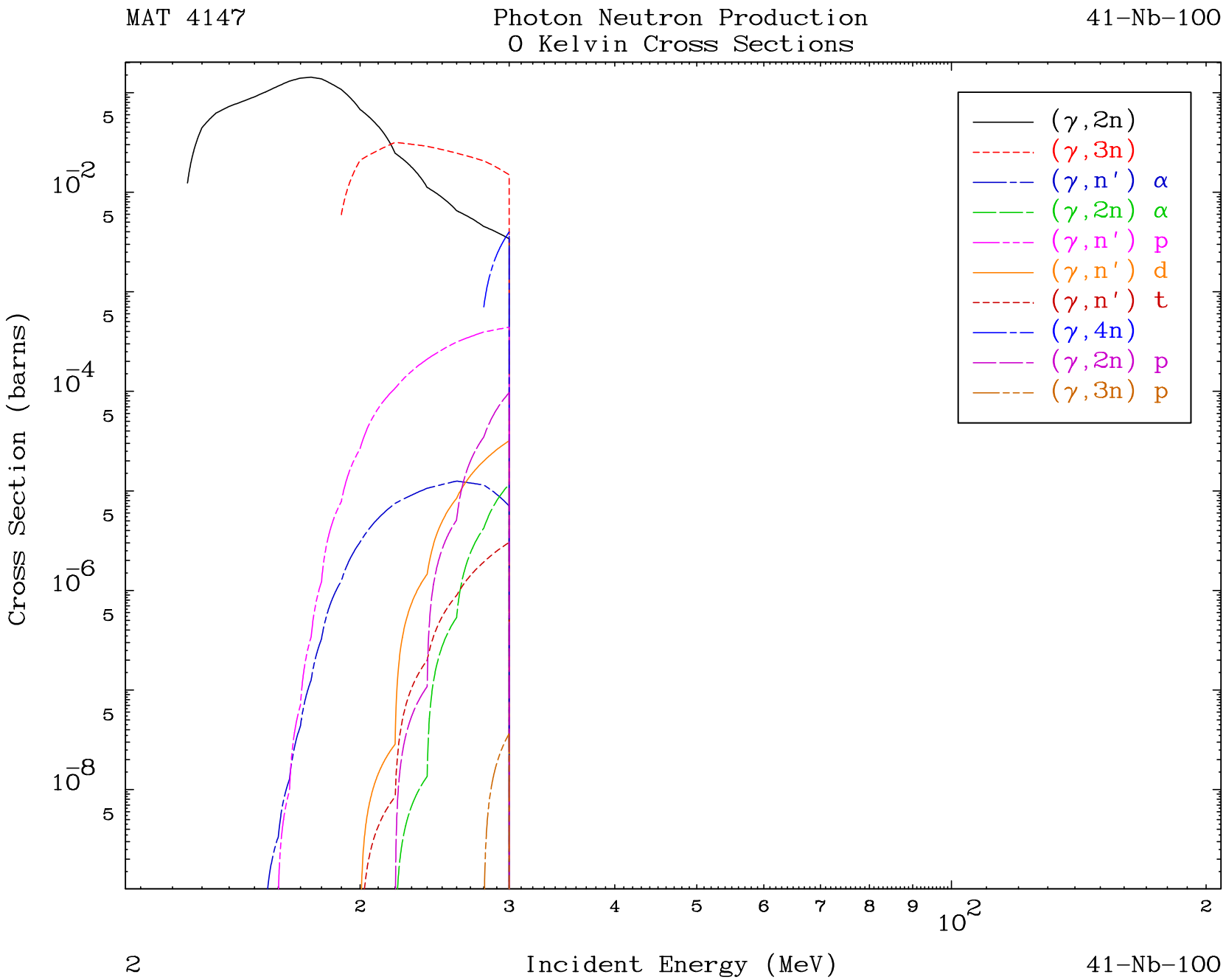
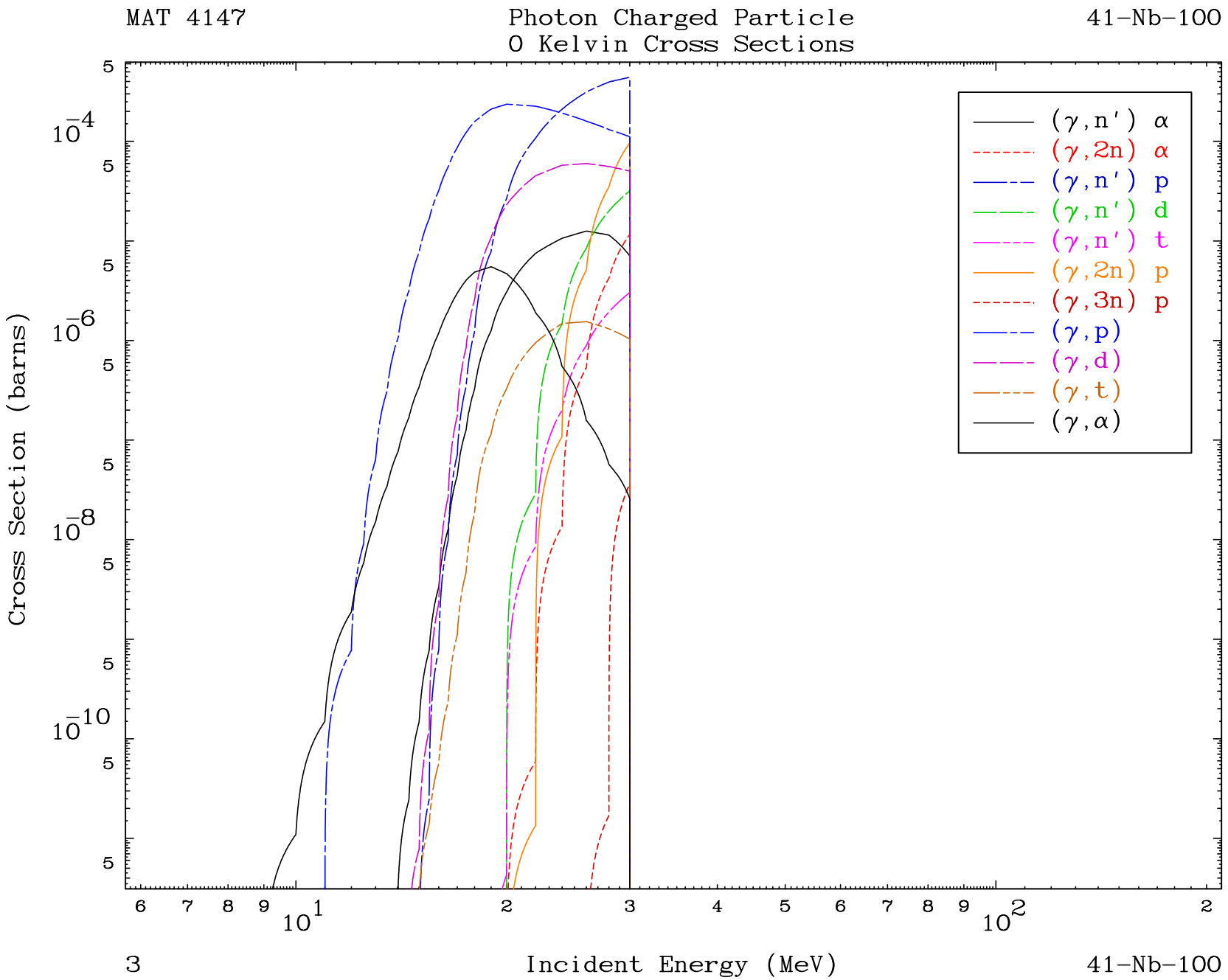
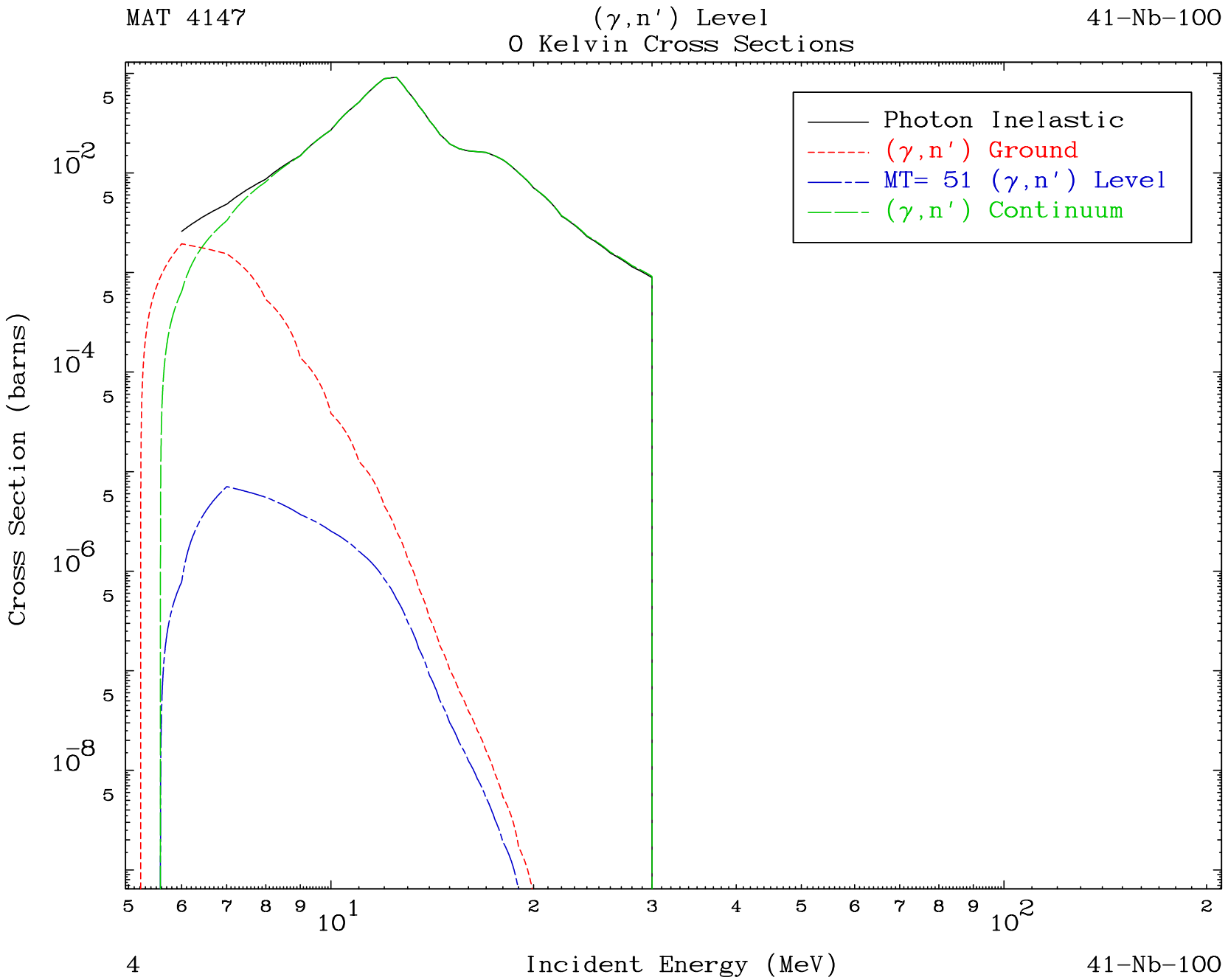
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

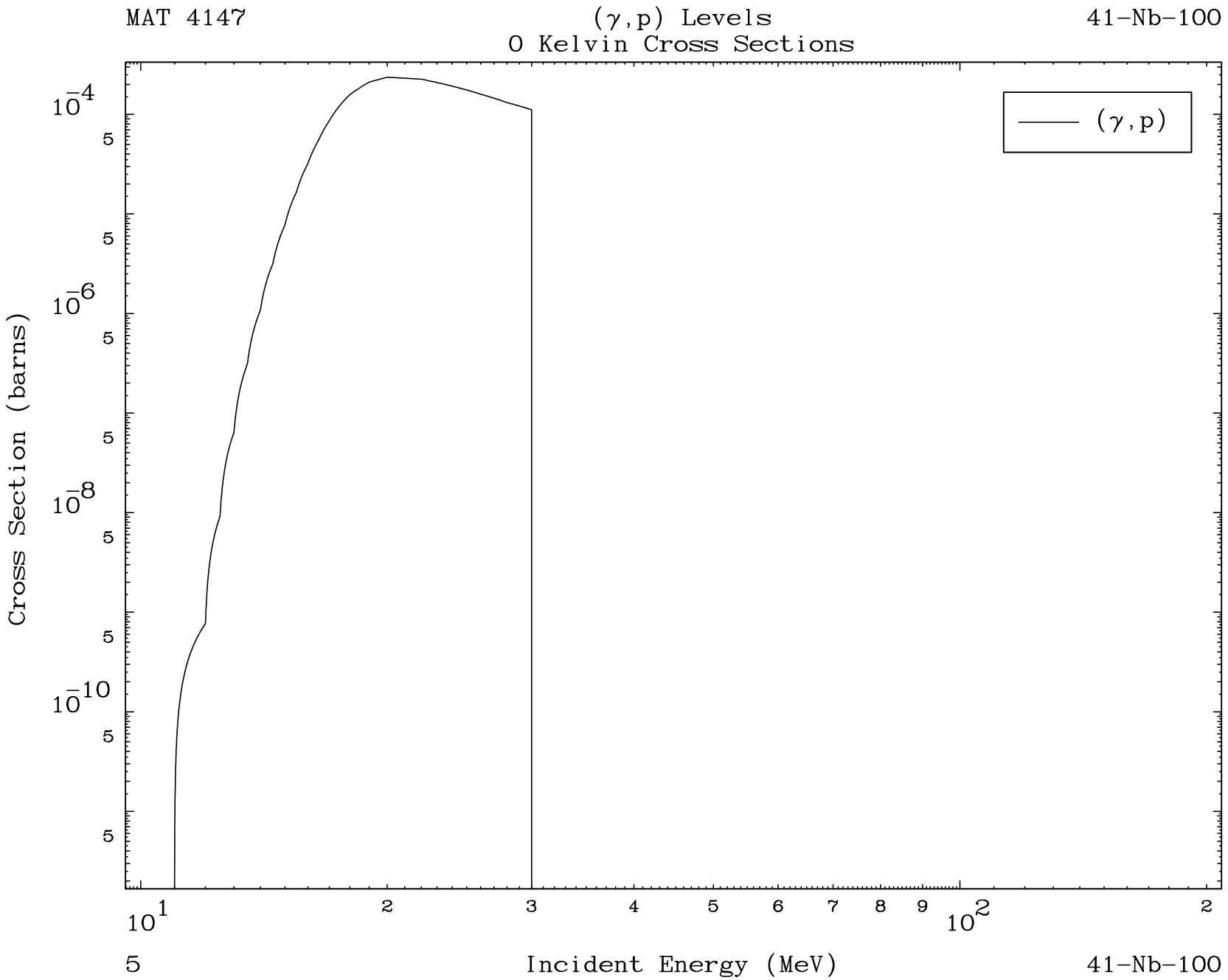
Press Mouse Button to Start

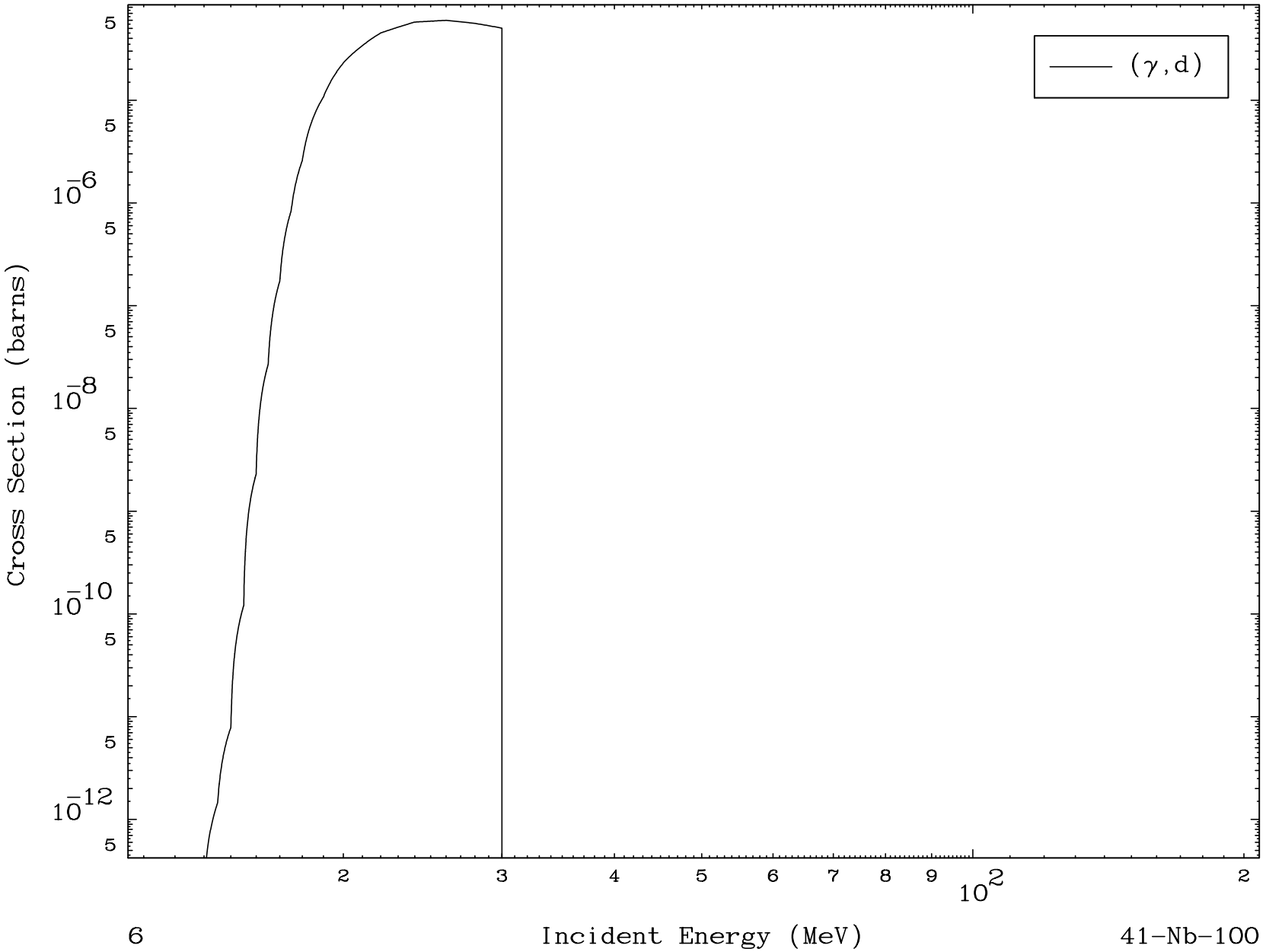

MAT 4147
Photon Major
41-Nb-100
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
41-Nb-100
1

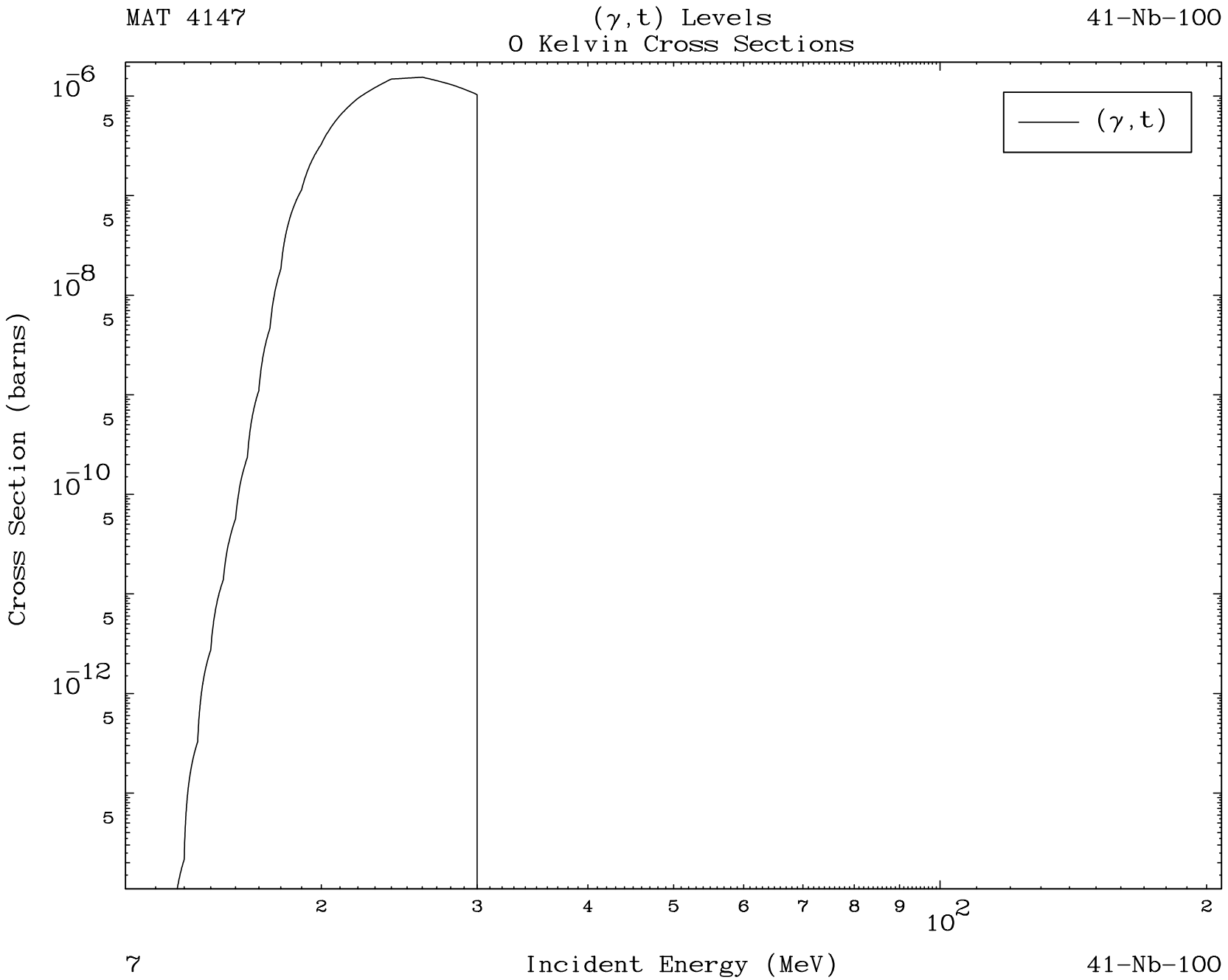

MAT 4147
Photon Neutron Production
0 Kelvin Cross Sections
41-Nb-100
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
41-Nb-100
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,4n)
(γ,2n) p
(γ,3n) p

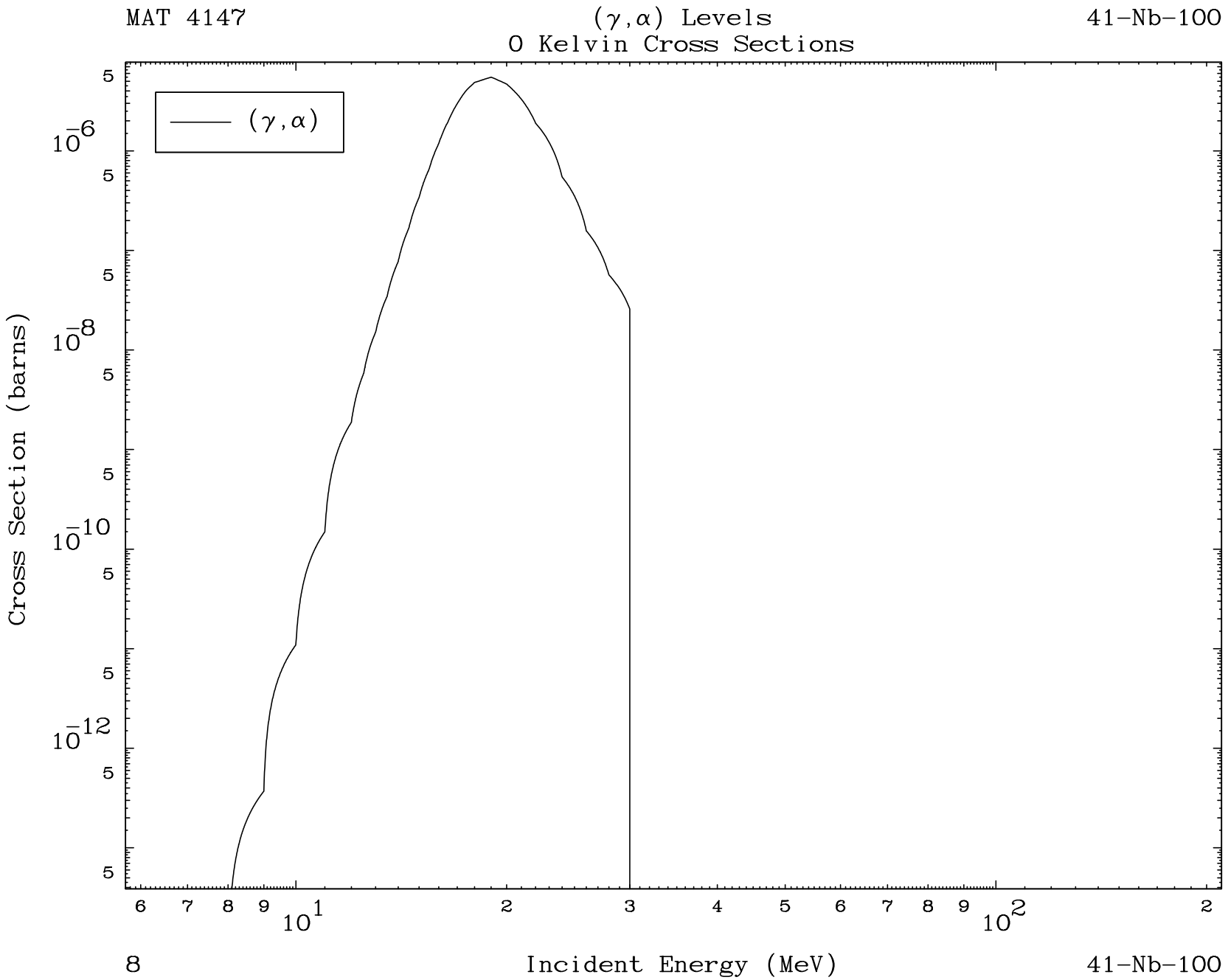

MAT 4147
Photon Charged Particle
0 Kelvin Cross Sections
41-Nb-100
Cross Section (barns)
Incident Energy (MeV)
3
41-Nb-100
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,3n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)

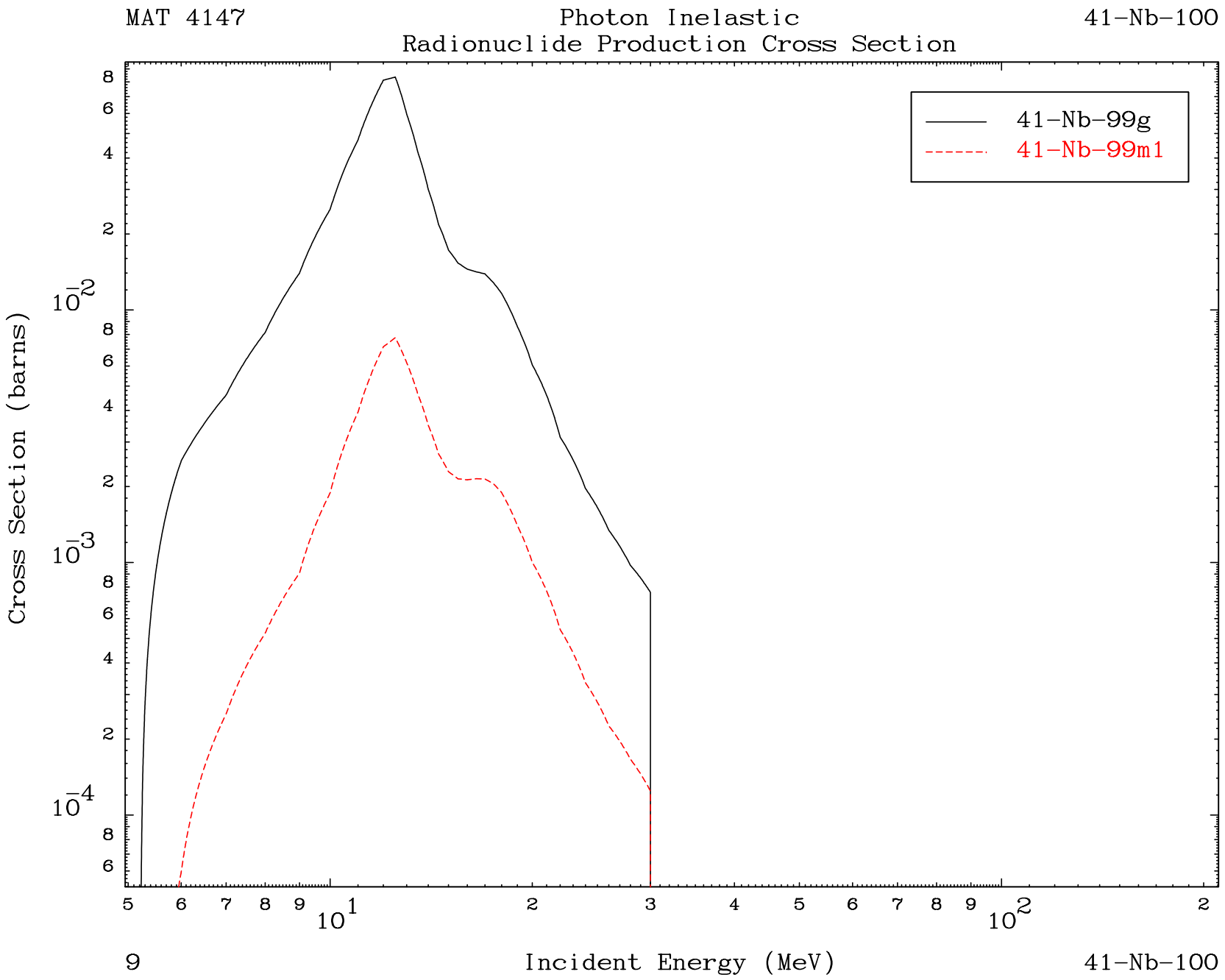

MAT 4147
(γ,n') Level
41-Nb-100
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
41-Nb-100
4

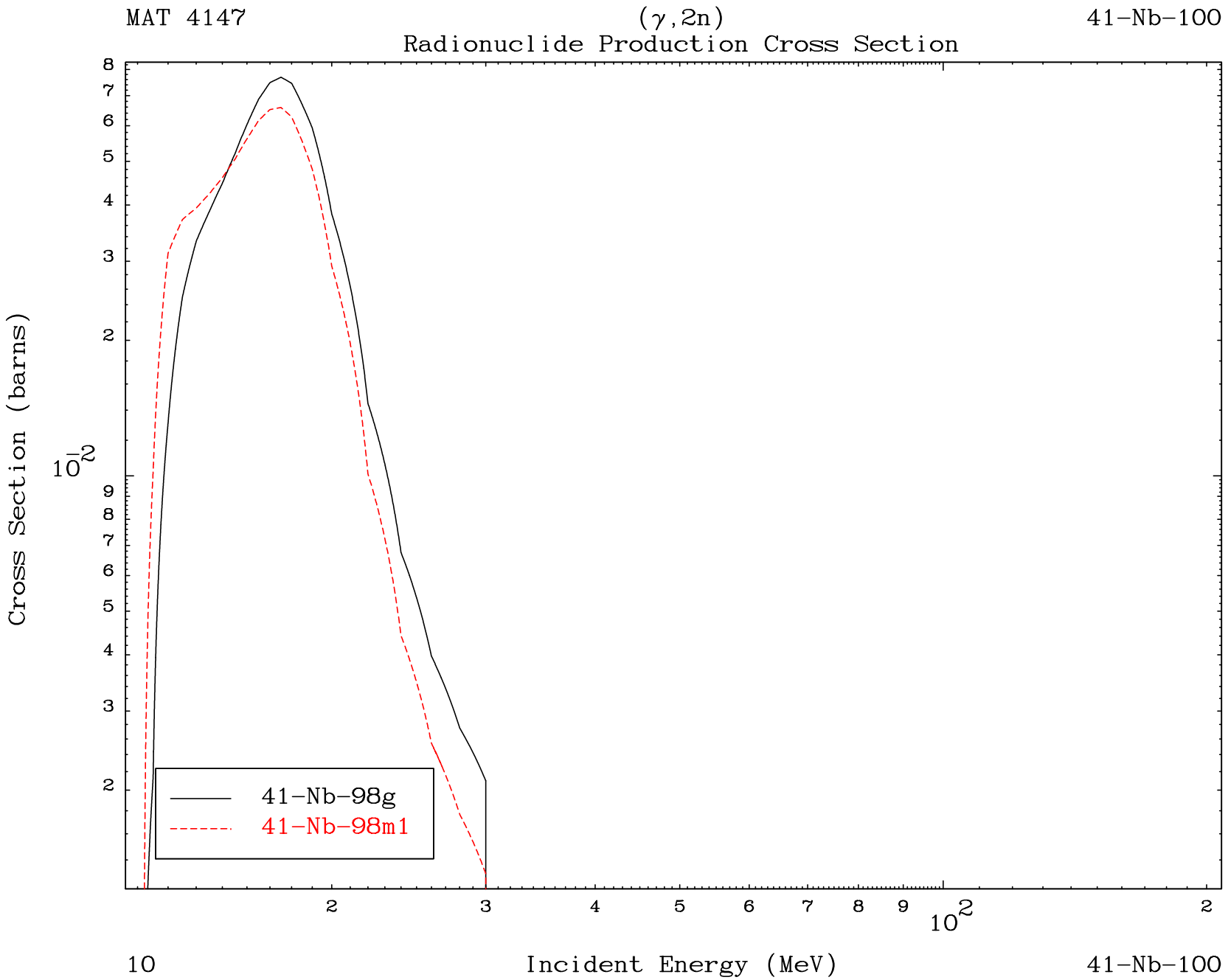

MAT 4147
(γ,p) Levels
41-Nb-100
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
41-Nb-100

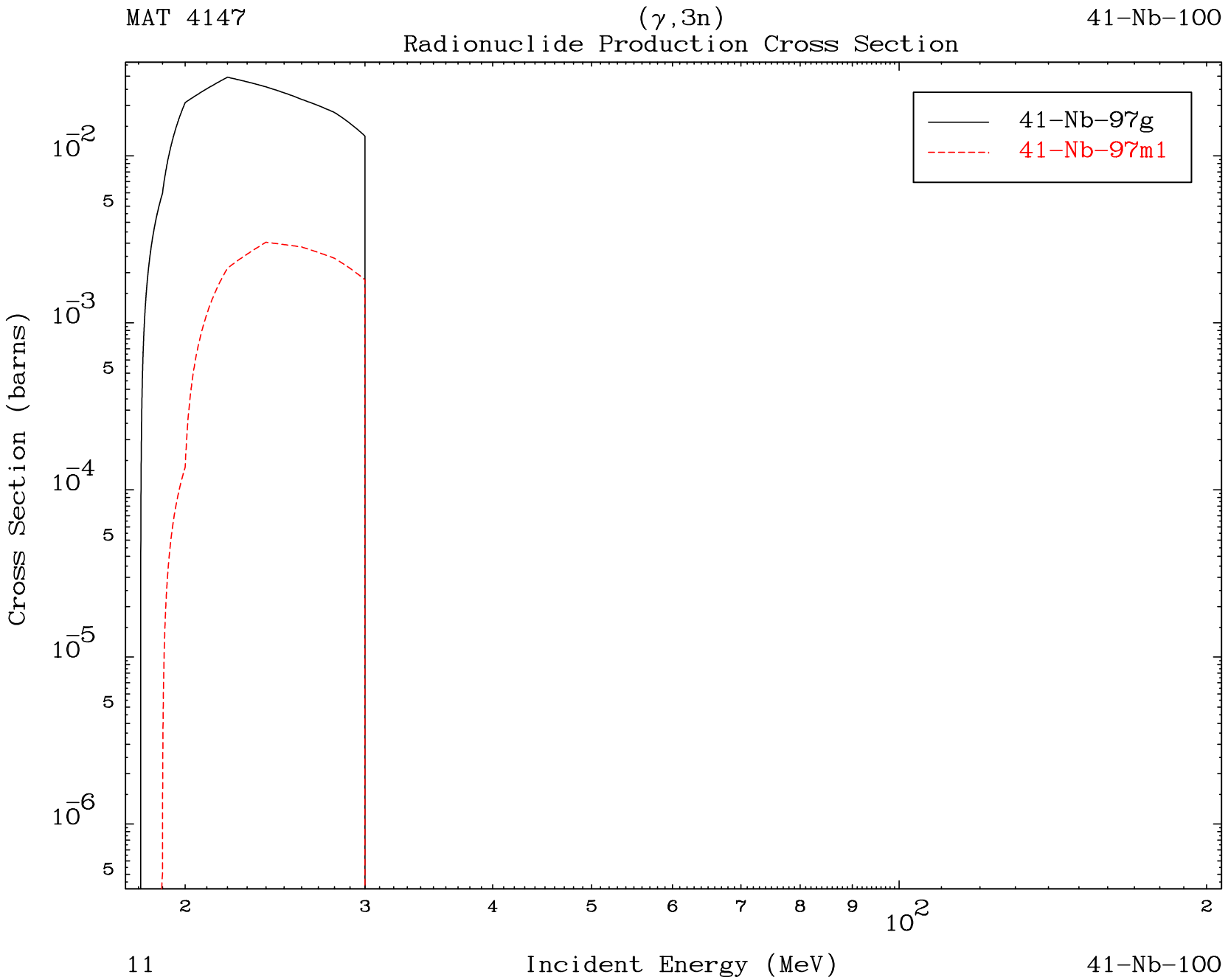

0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

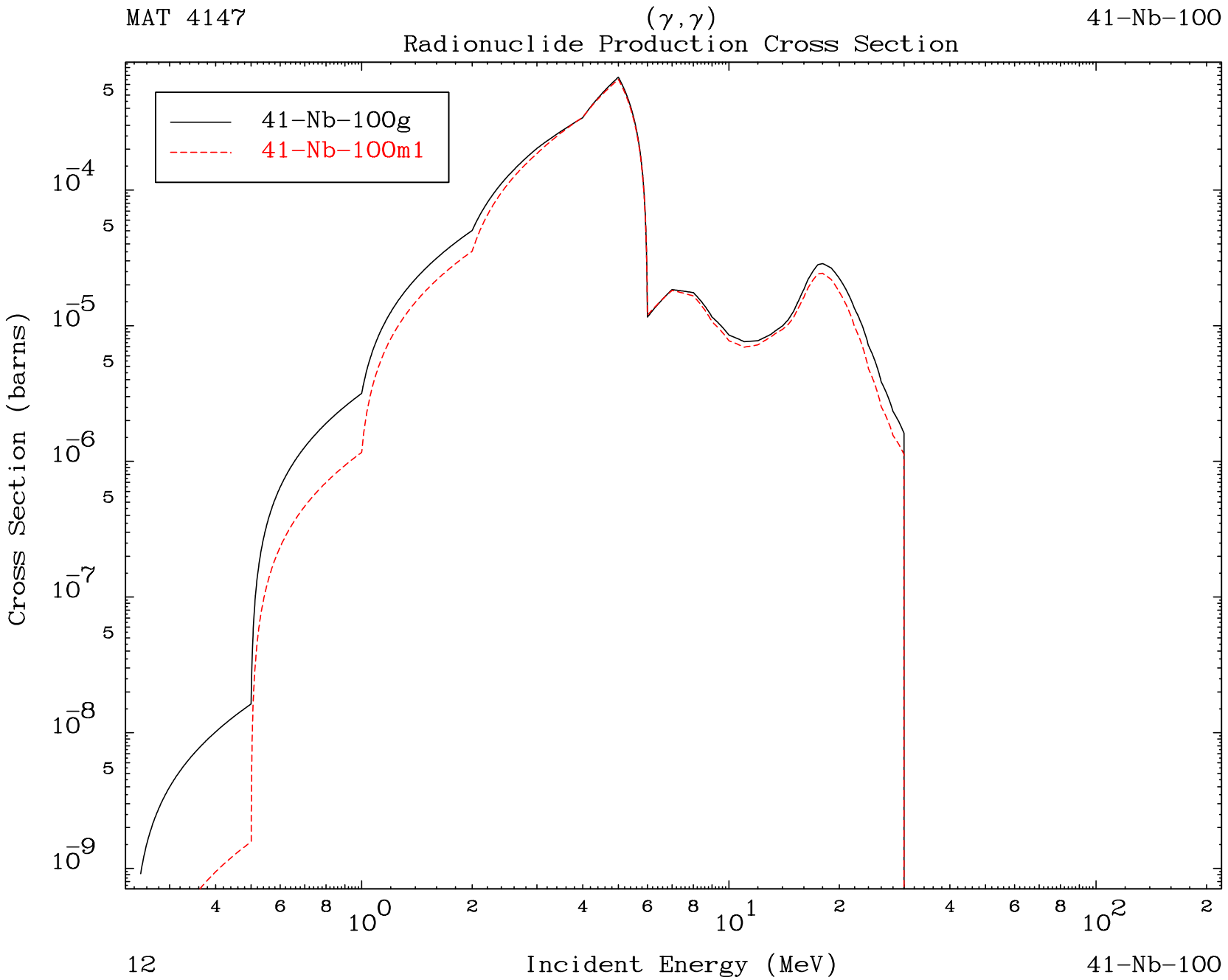

MAT 4147
(γ,t) Levels
41-Nb-100
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
7
41-Nb-100

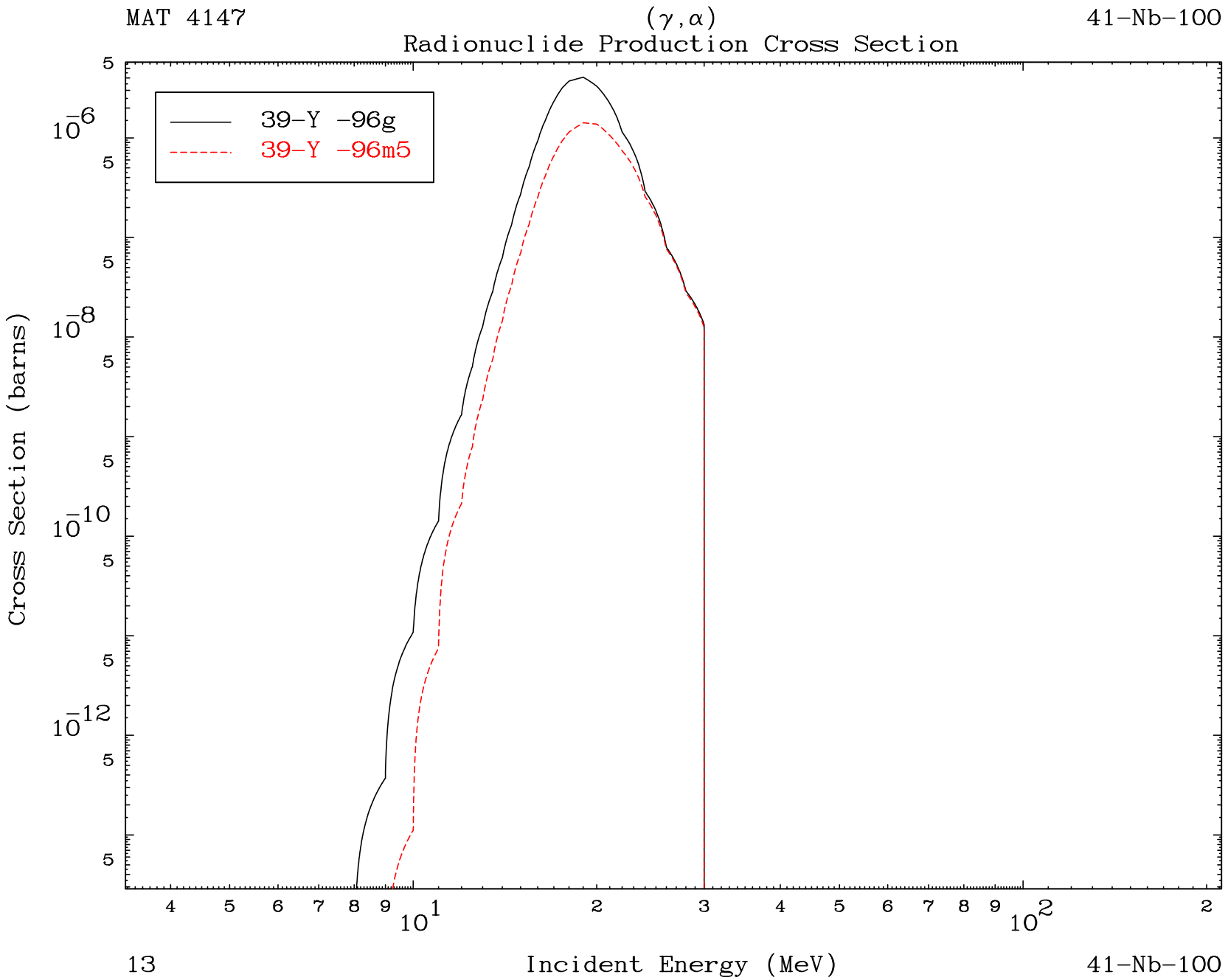

MAT 4147
(γ,α) Levels
41-Nb-100
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
8
41-Nb-100


MAT 4147
Photon Inelastic
41-Nb-100
Radionuclide Production Cross Section
41-Nb-99g
41-Nb-99m1
Cross Section (barns)
Incident Energy (MeV)
41-Nb-100
9


MAT 4147
(γ,2n)
41-Nb-100
Radionuclide Production Cross Section
Cross Section (barns)
10^-2
8
7
6
5
4
3
2
9
8
7
6
5
4
3
2
41-Nb-98g
41-Nb-98m1
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
41-Nb-100


MAT 4147
(γ,3n)
41-Nb-100
Radionuclide Production Cross Section
41-Nb-97g
41-Nb-97m1
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
41-Nb-100


MAT 4147
(γ,γ)
41-Nb-100
Radionuclide Production Cross Section
41-Nb-100g
41-Nb-100m1
Cross Section (barns)
Incident Energy (MeV)
12
41-Nb-100


MAT 4147
(γ,α)
41-Nb-100
Radionuclide Production Cross Section
39-Y -96g
39-Y -96m5
Cross Section (barns)
Incident Energy (MeV)
13
41-Nb-100