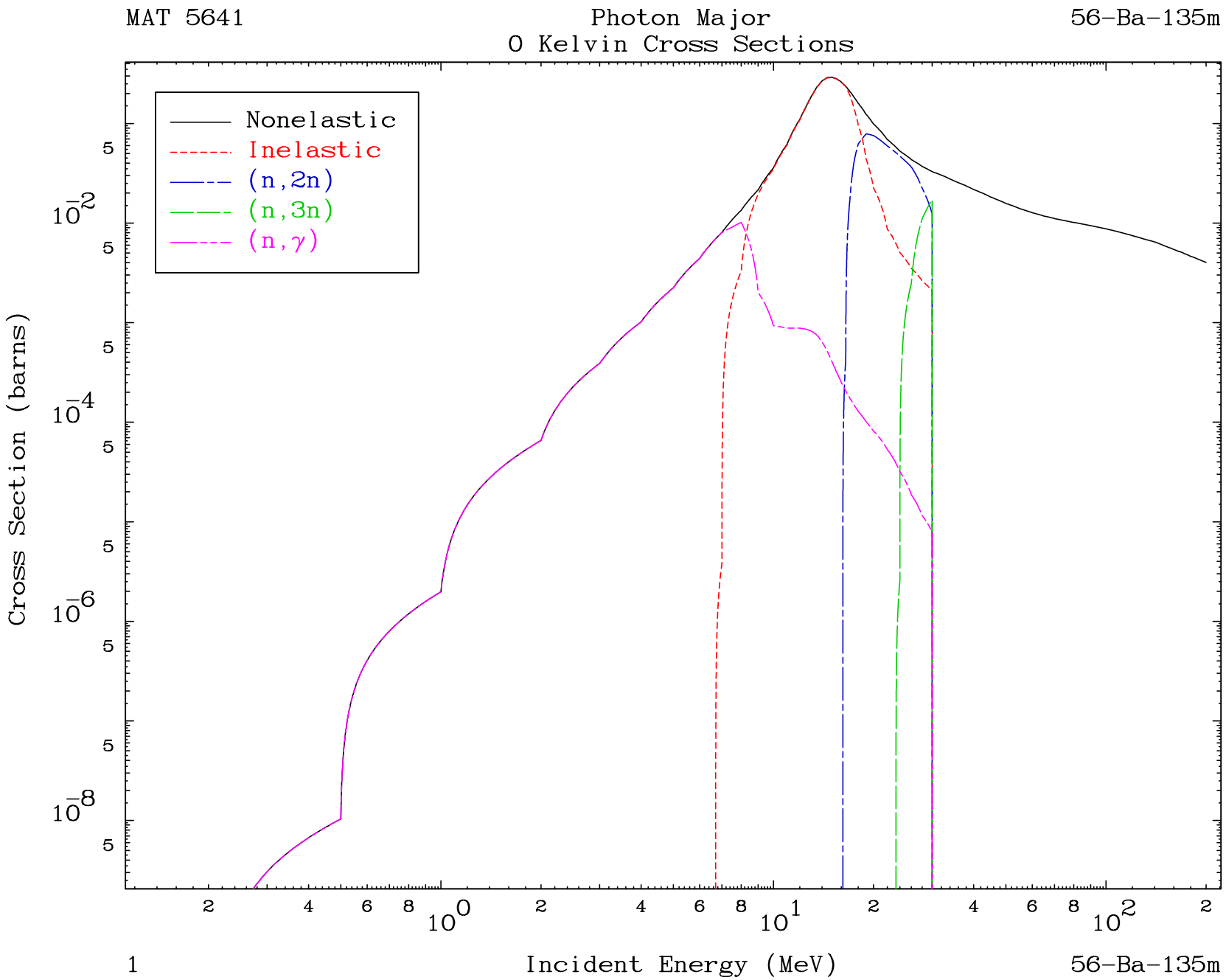
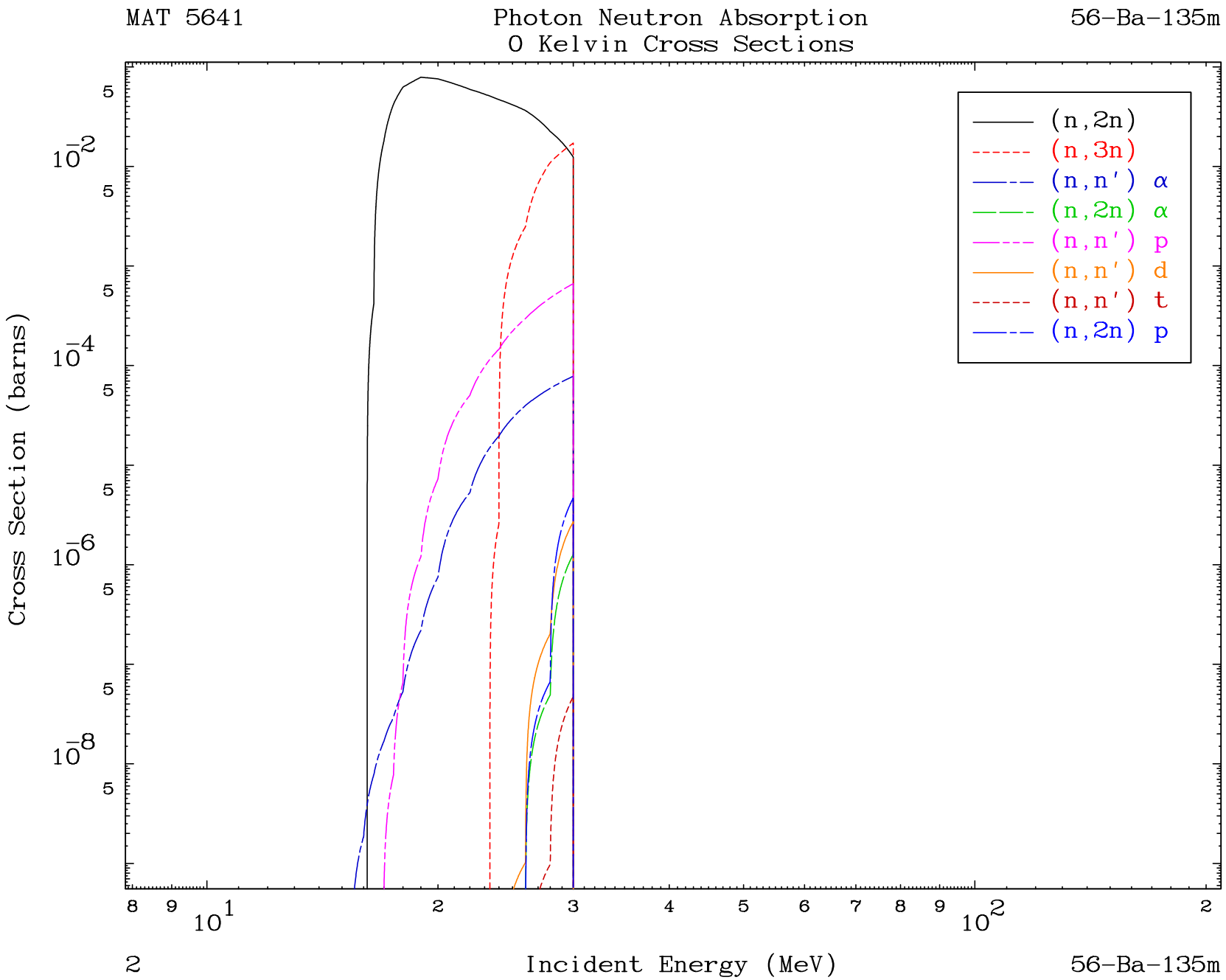
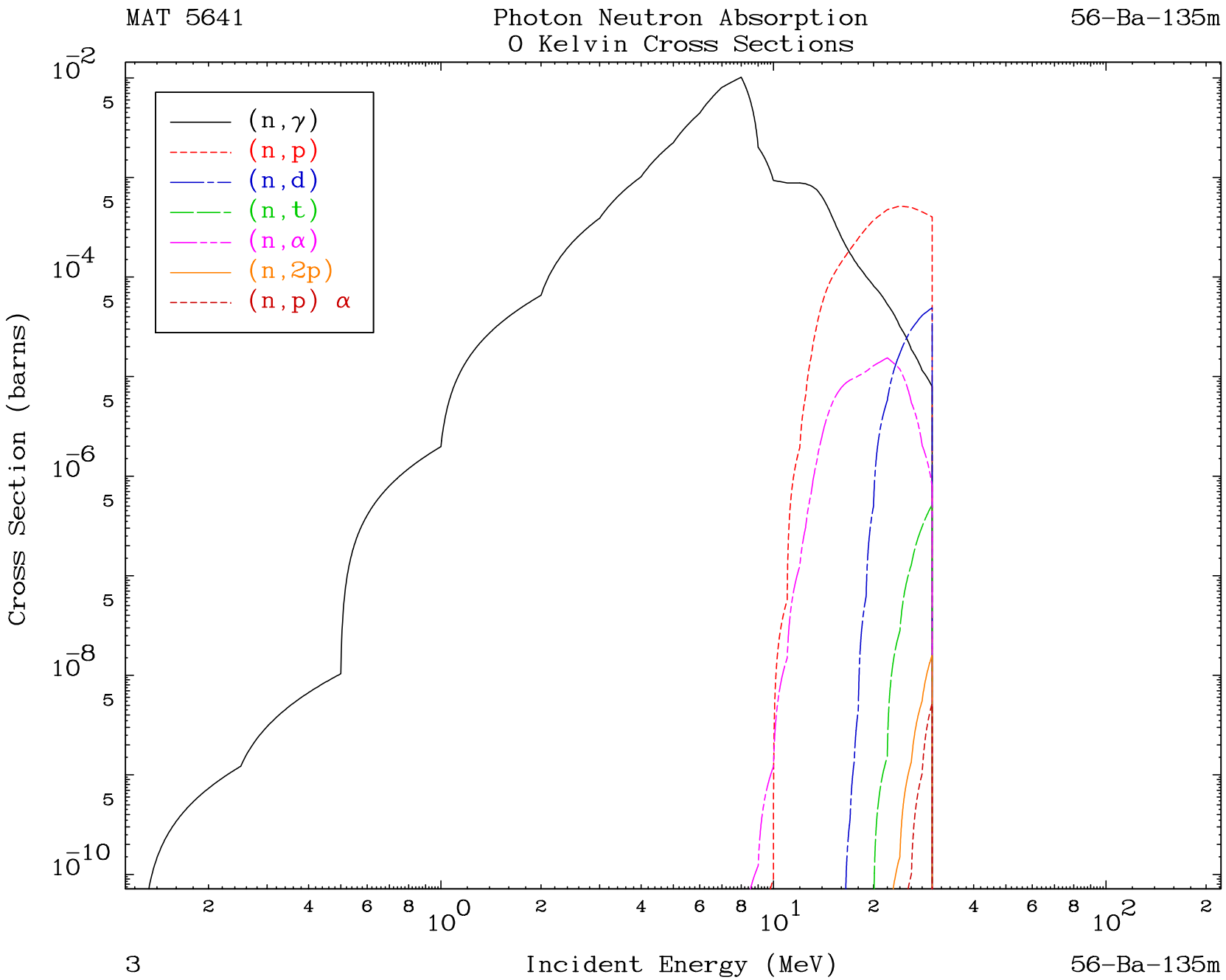
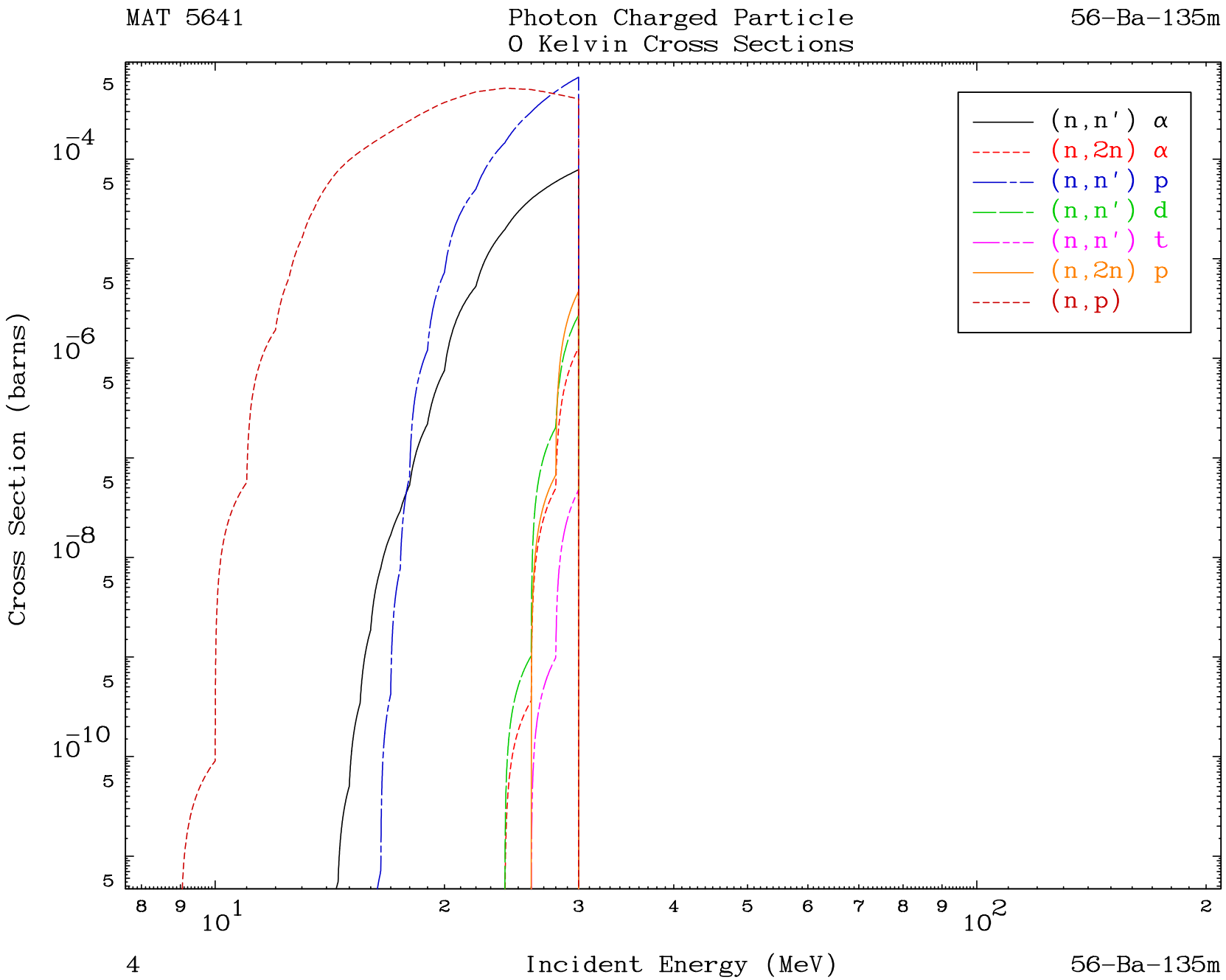
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

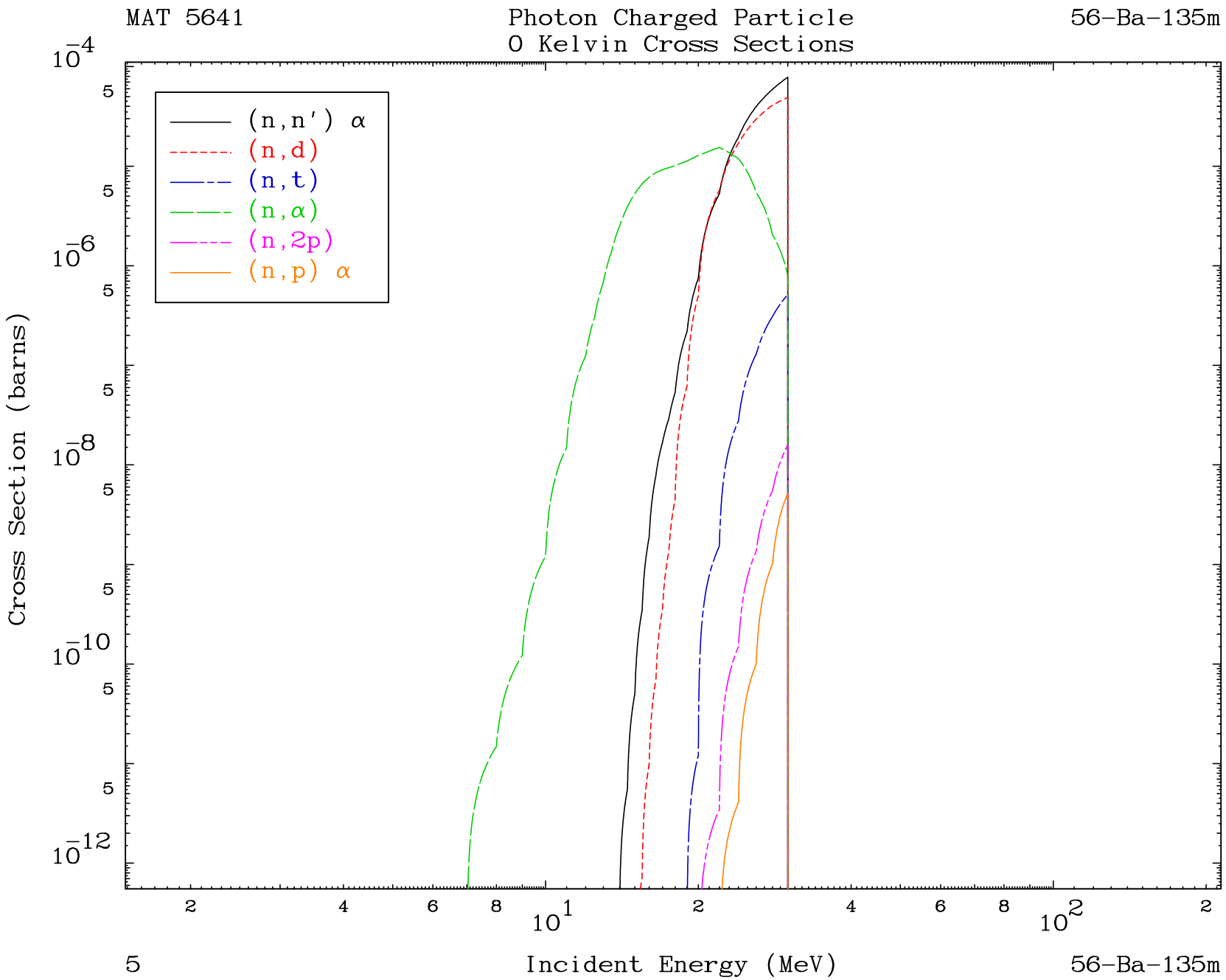
Press Mouse Button to Start

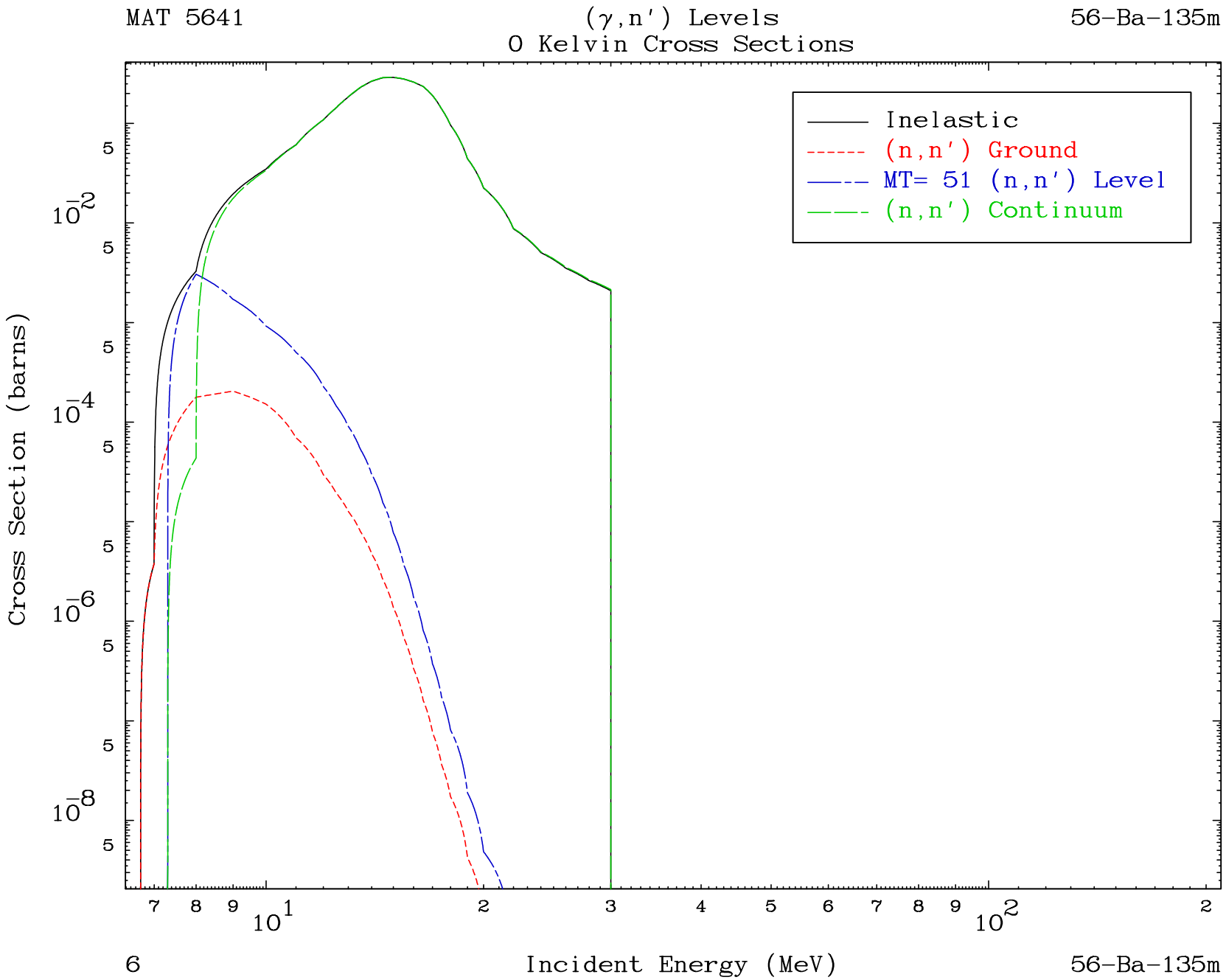

MAT 5641
Photon Major
56-Ba-135m
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
56-Ba-135m

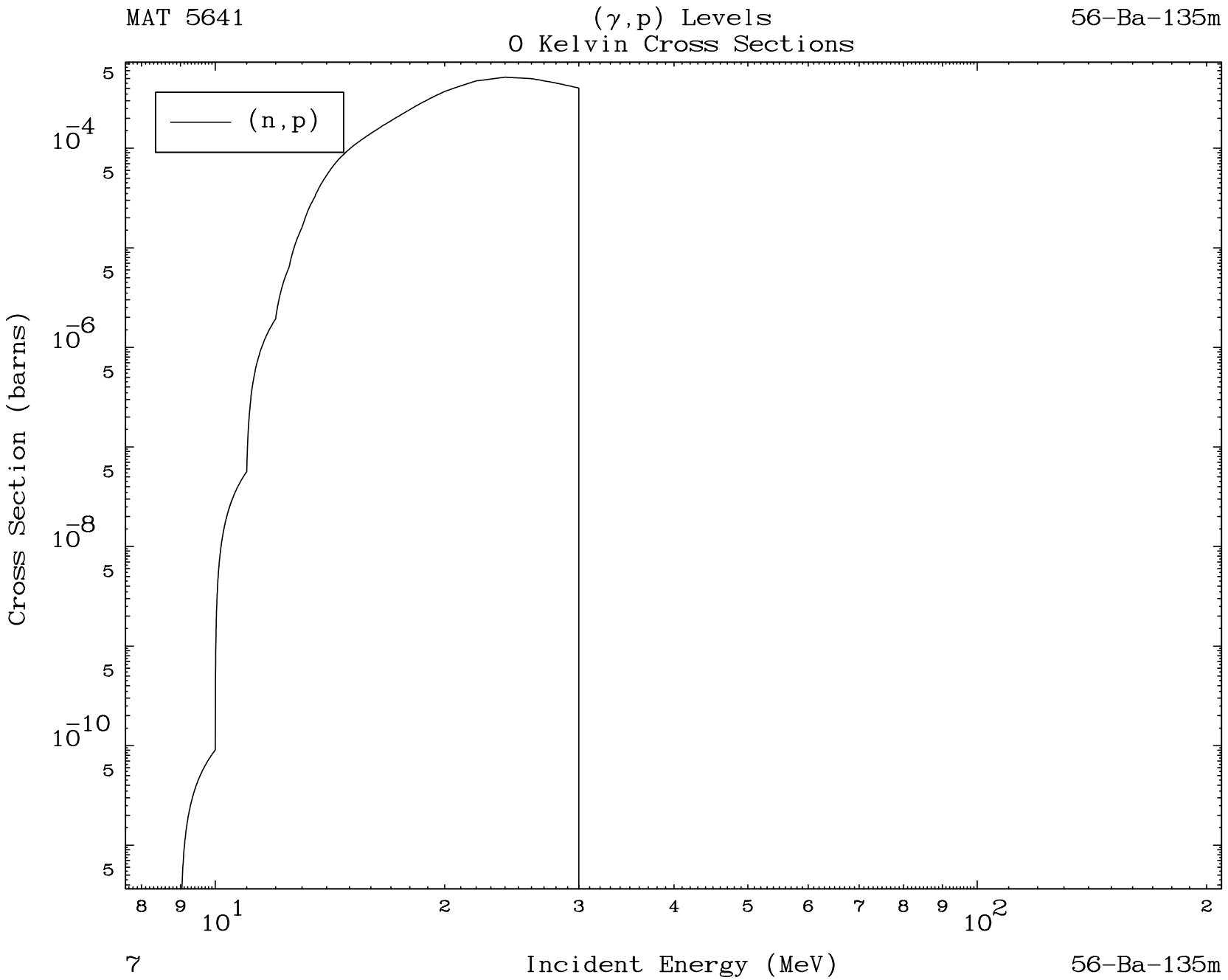

MAT 5641
Photon Neutron Absorption
0 Kelvin Cross Sections
56-Ba-135m
Cross Section (barns)
Incident Energy (MeV)
56-Ba-135m
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p

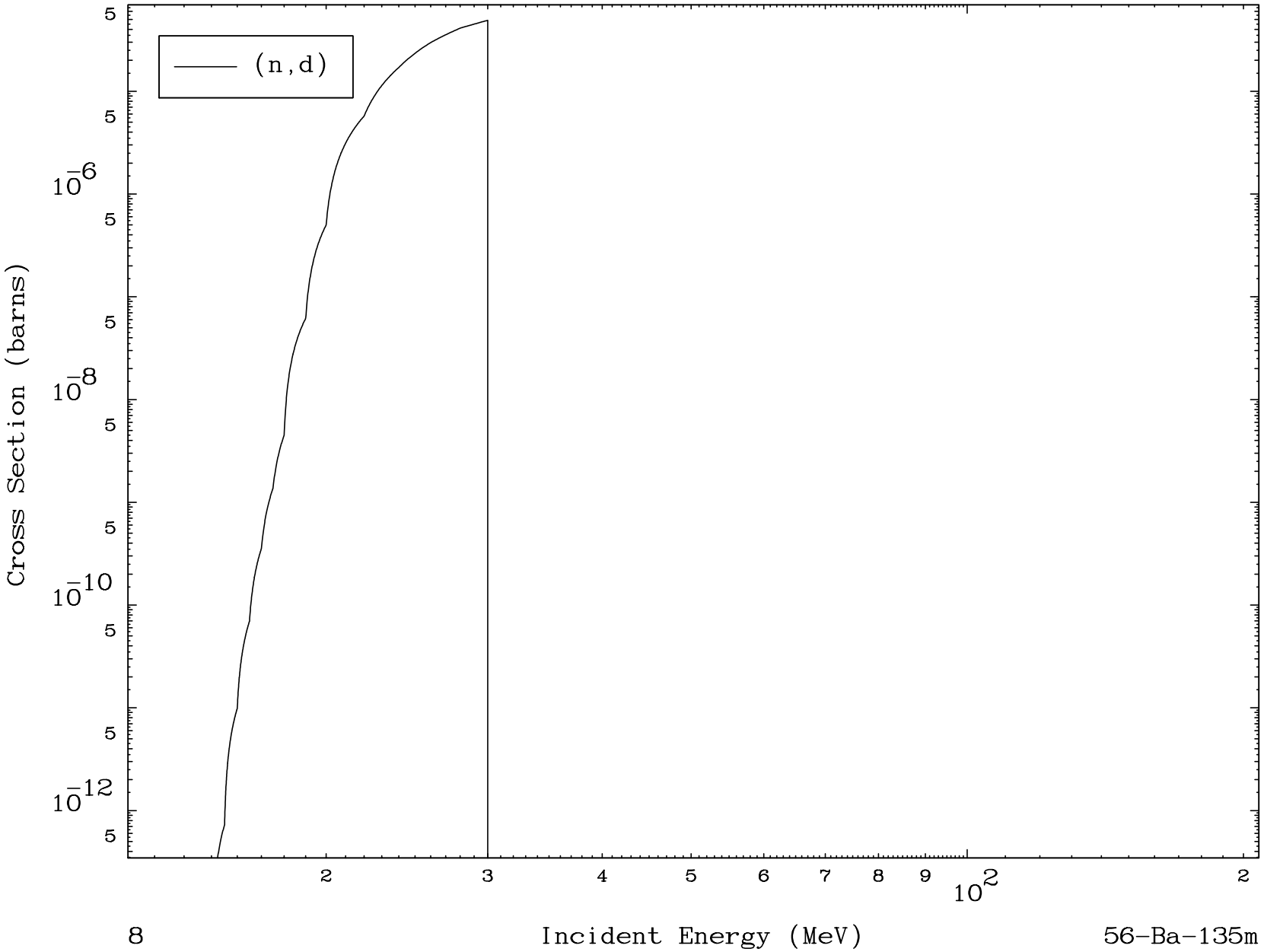

MAT 5641
Photon Neutron Absorption
0 Kelvin Cross Sections
56-Ba-135m
(n,γ)
(n,p)
(n,d)
(n,t)
(n,α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
3
56-Ba-135m

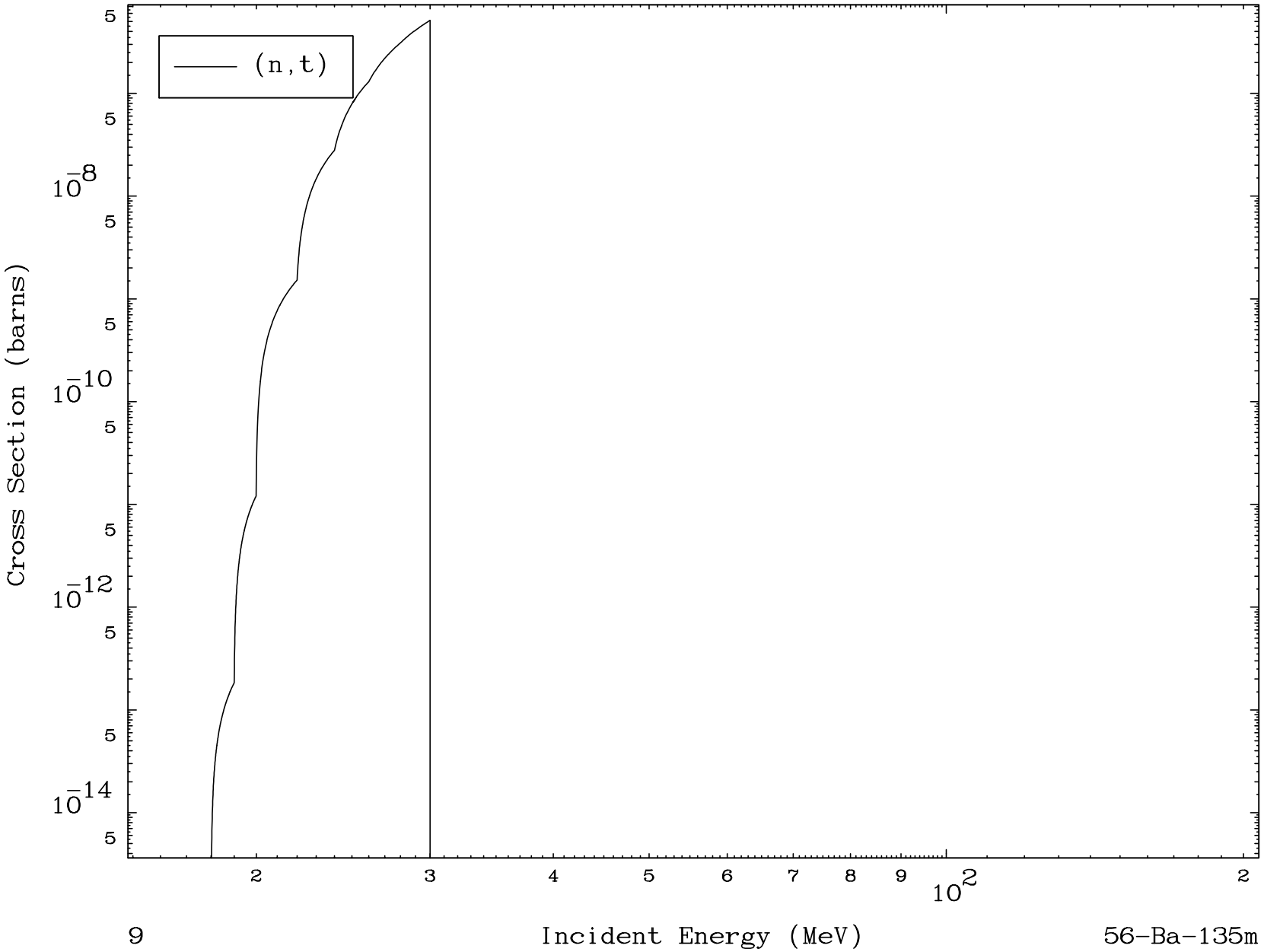

MAT 5641
Photon Charged Particle
0 Kelvin Cross Sections
56-Ba-135m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,p)
4
56-Ba-135m

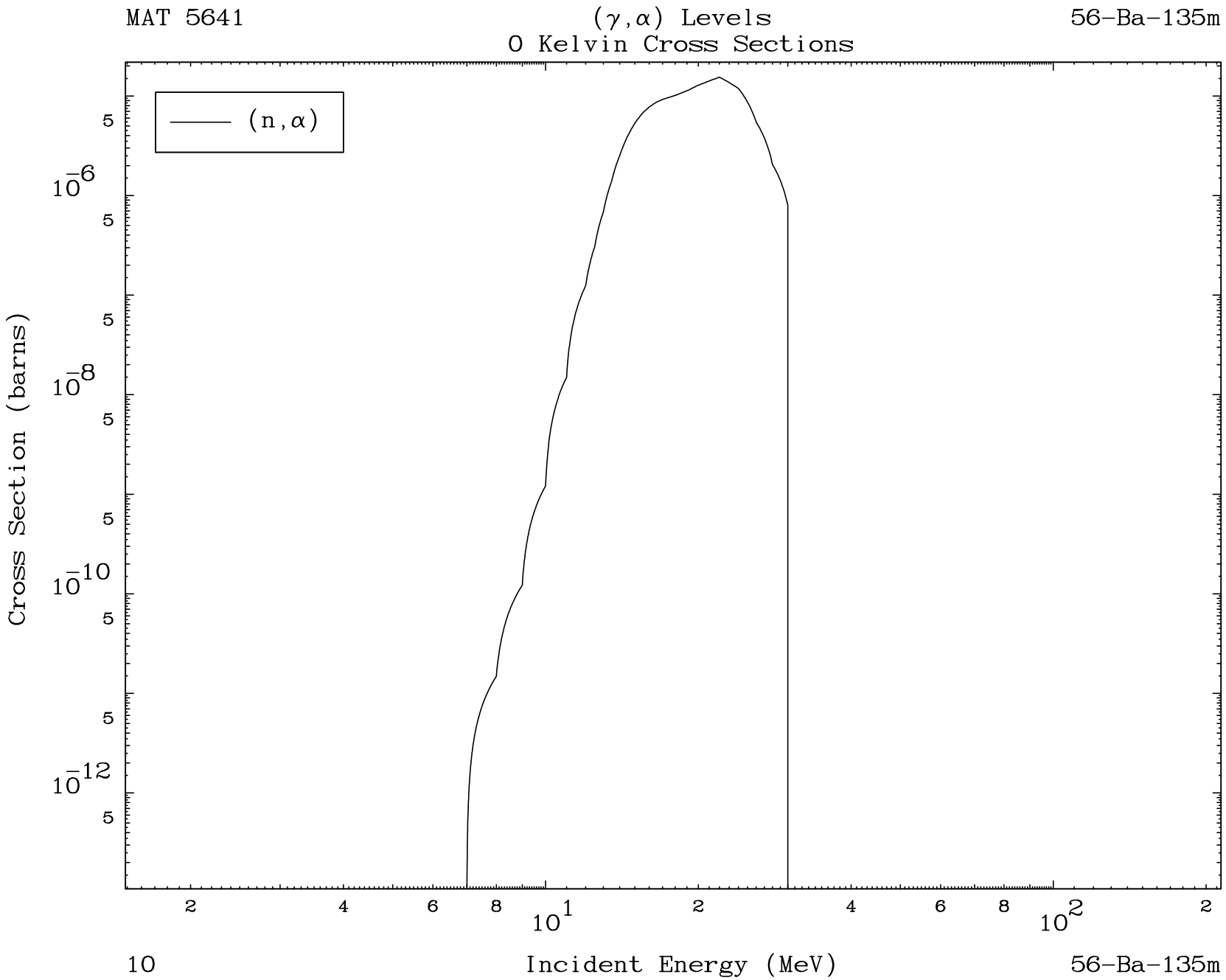

MAT 5641
Photon Charged Particle
0 Kelvin Cross Sections
56-Ba-135m
(n,n') α
(n,d)
(n,t)
(n,α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
56-Ba-135m
5

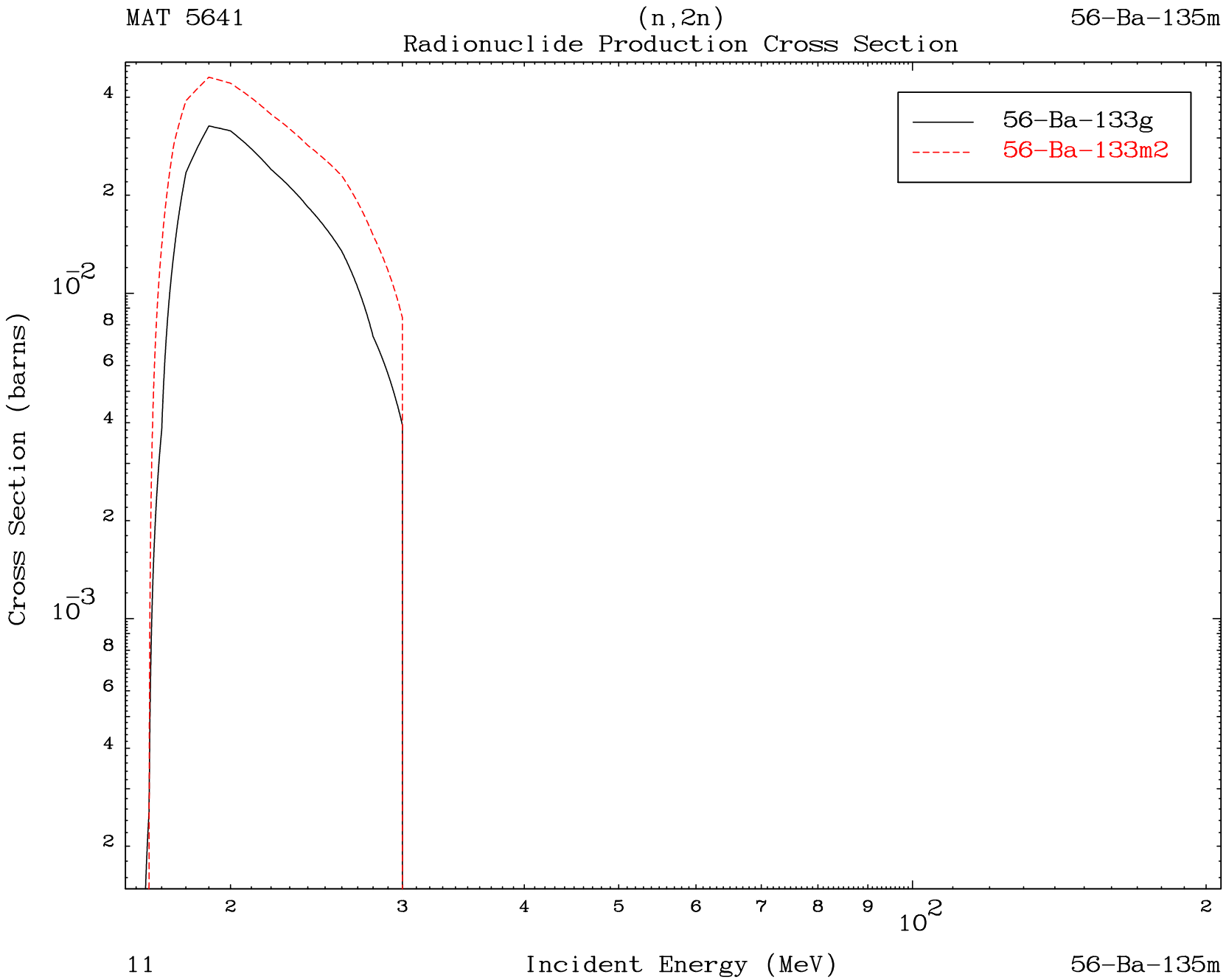

MAT 5641
(γ,n') Levels
0 Kelvin Cross Sections
56-Ba-135m
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
(n,n') Continuum
Cross Section (barns)
10-2
10-4
10-6
10-8
5
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
56-Ba-135m

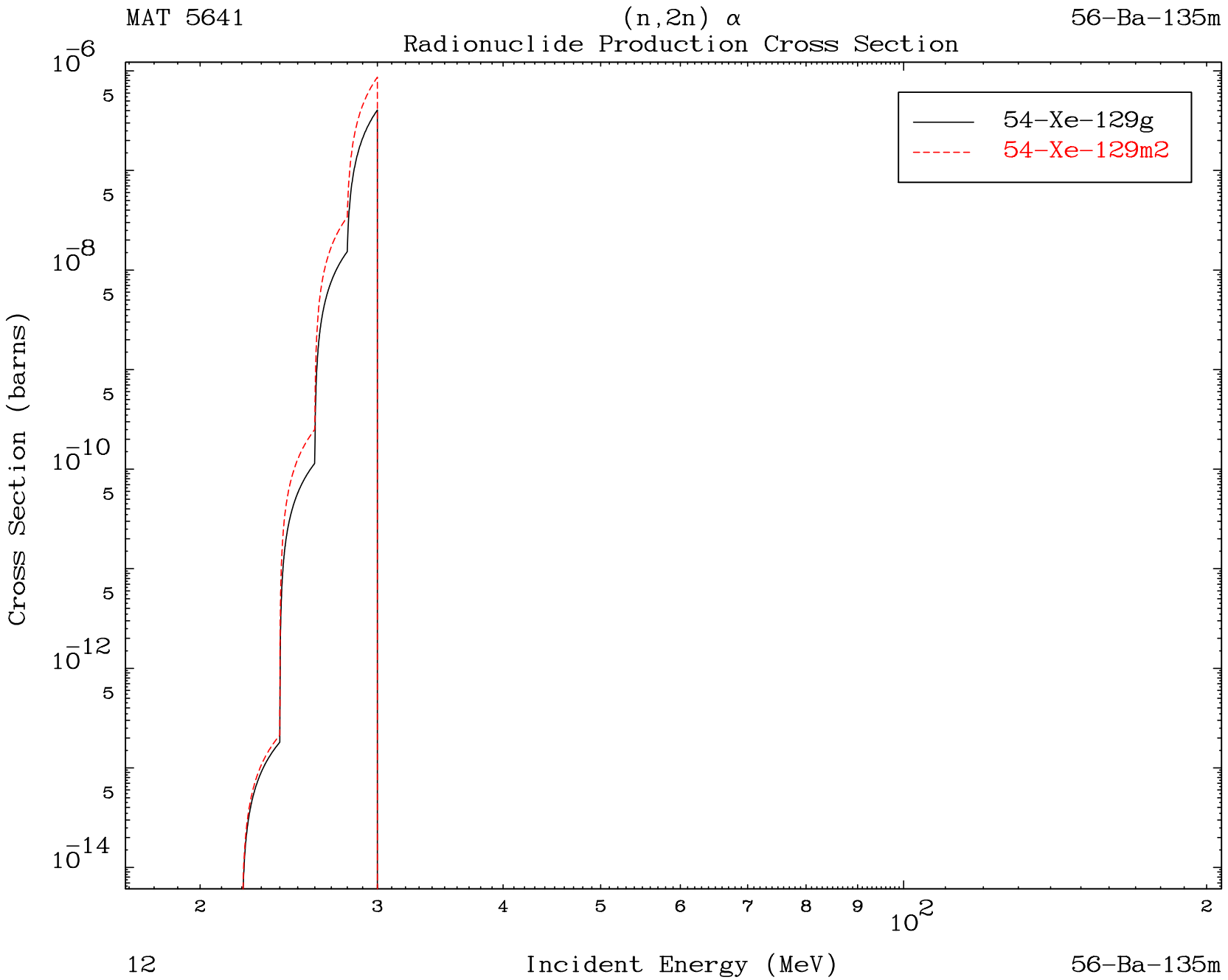

MAT 5641
(γ,p) Levels
56-Ba-135m
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
7
56-Ba-135m

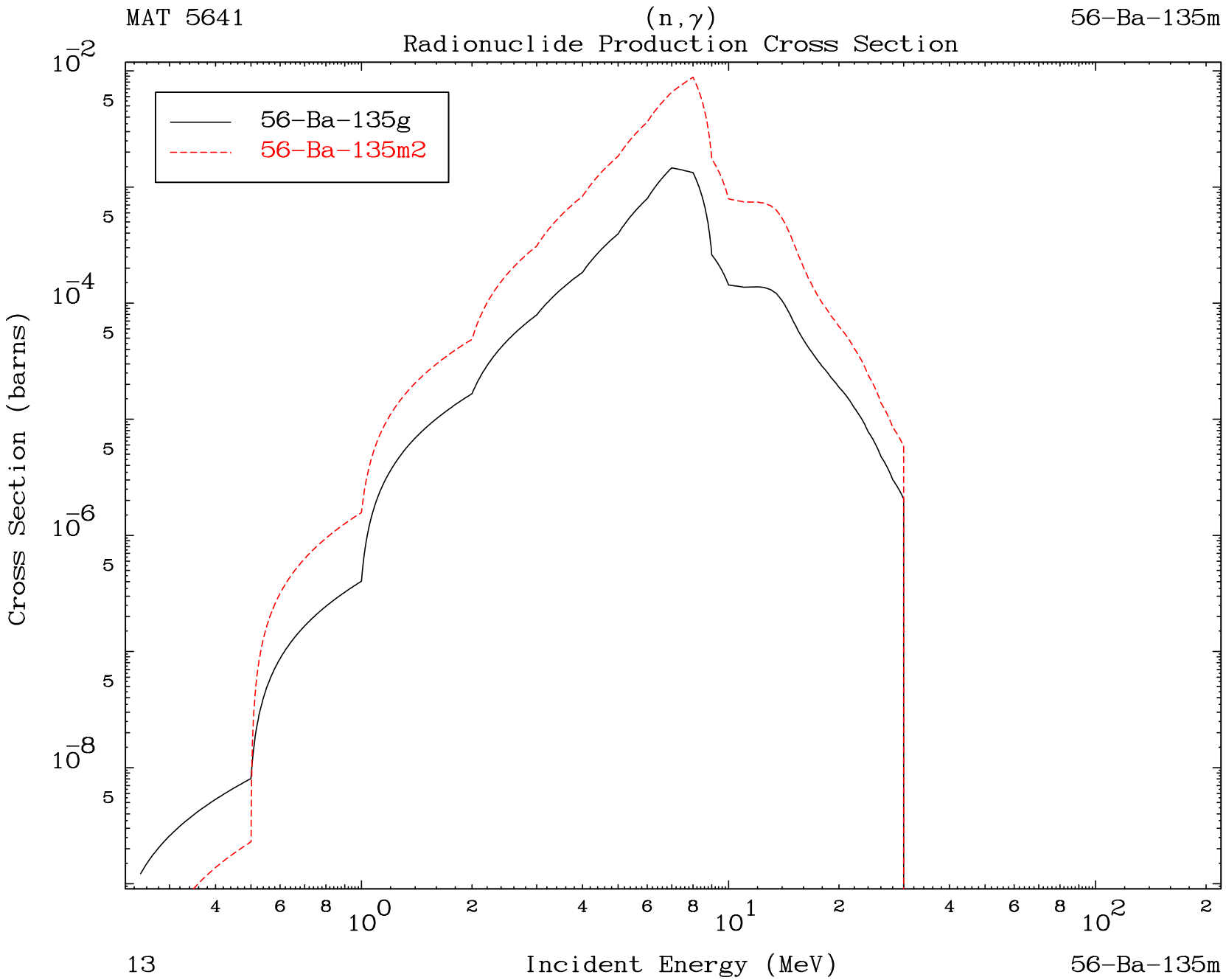

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
5
5
10^-6
5
5
10^-8
5
5
10^-10
5
5
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

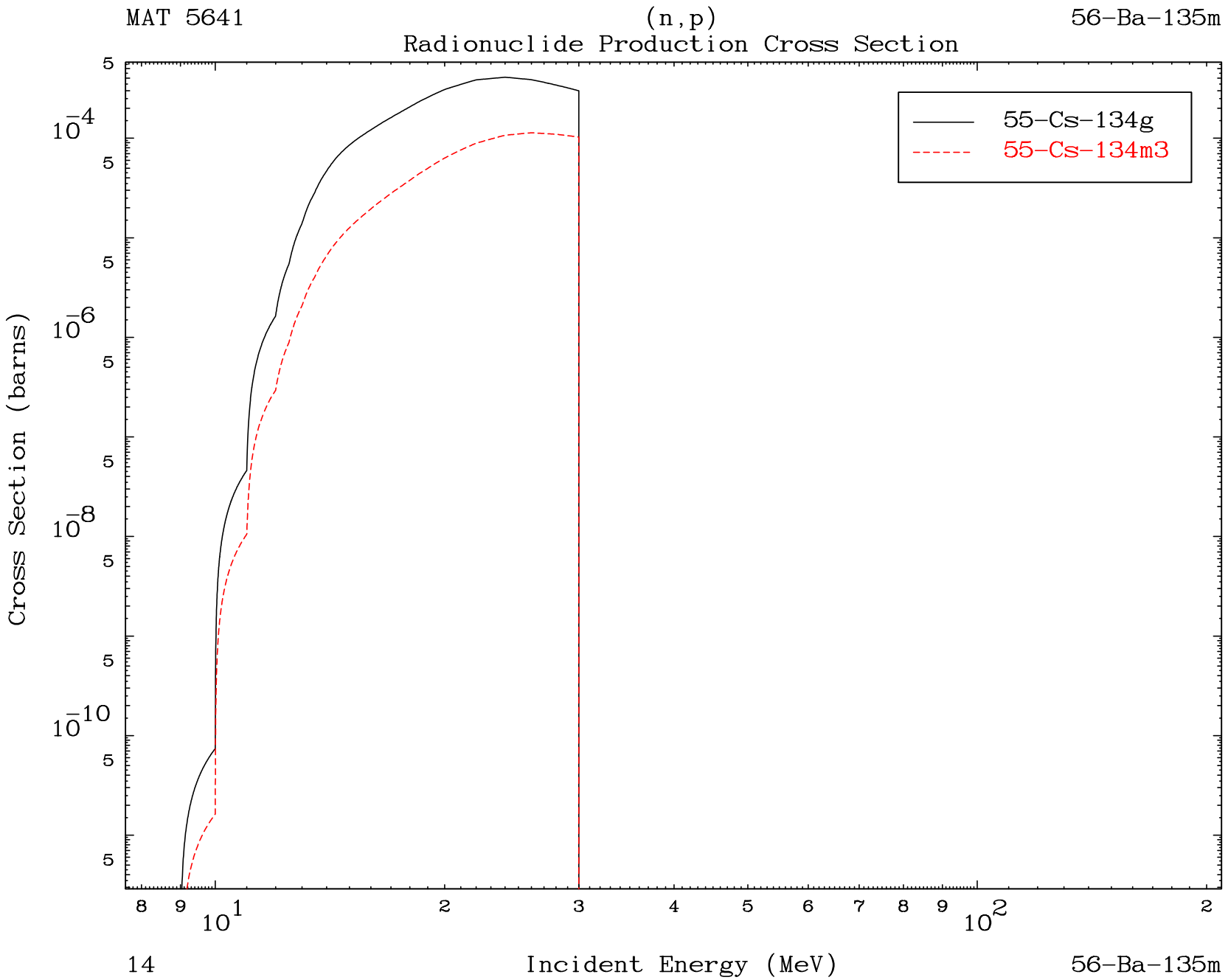

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
10^-8
10^-10
10^-12
10^-14
10^2

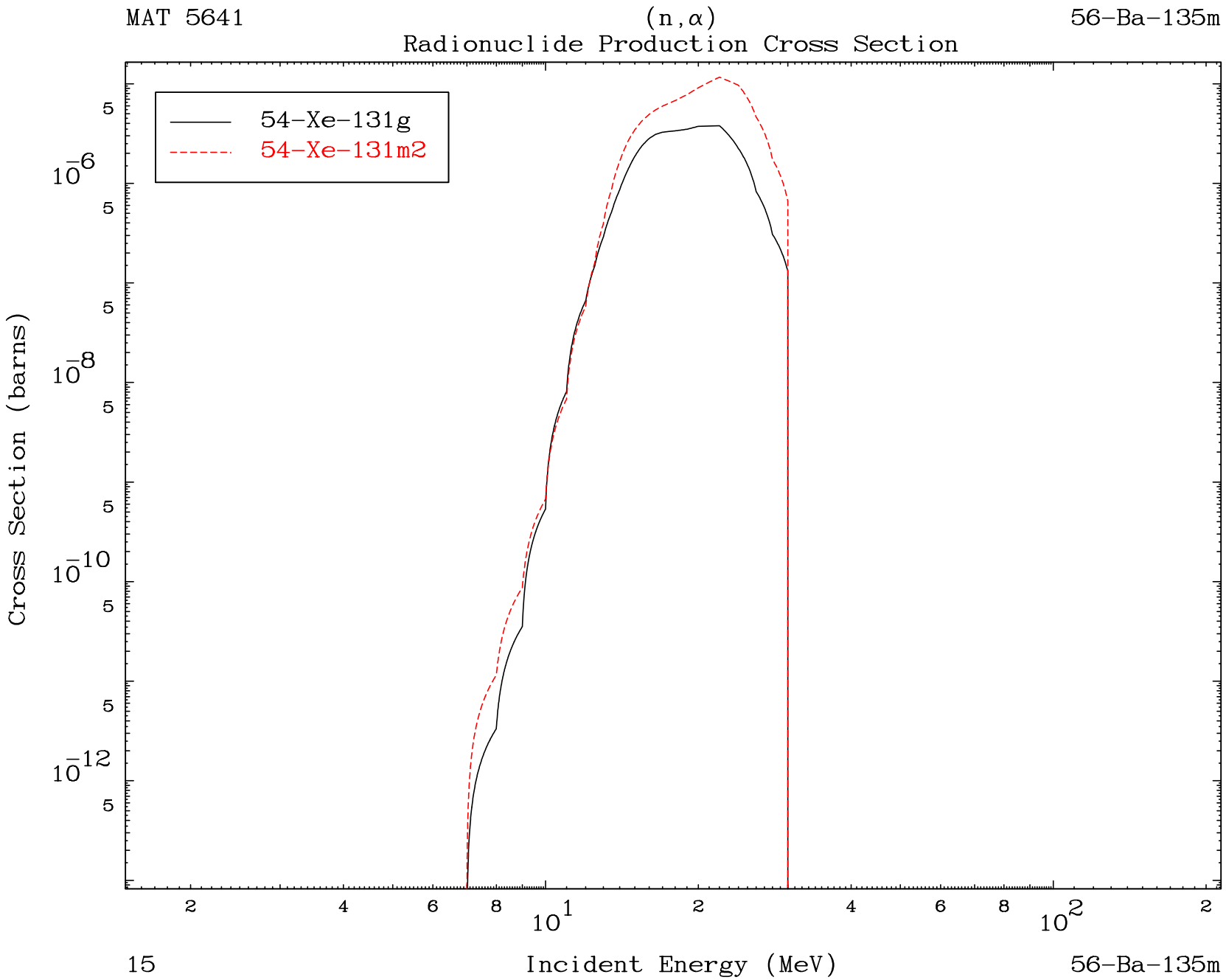

MAT 5641
(γ,α) Levels
56-Ba-135m
0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
4
6
8
10^1
10^2
10
Incident Energy (MeV)
56-Ba-135m

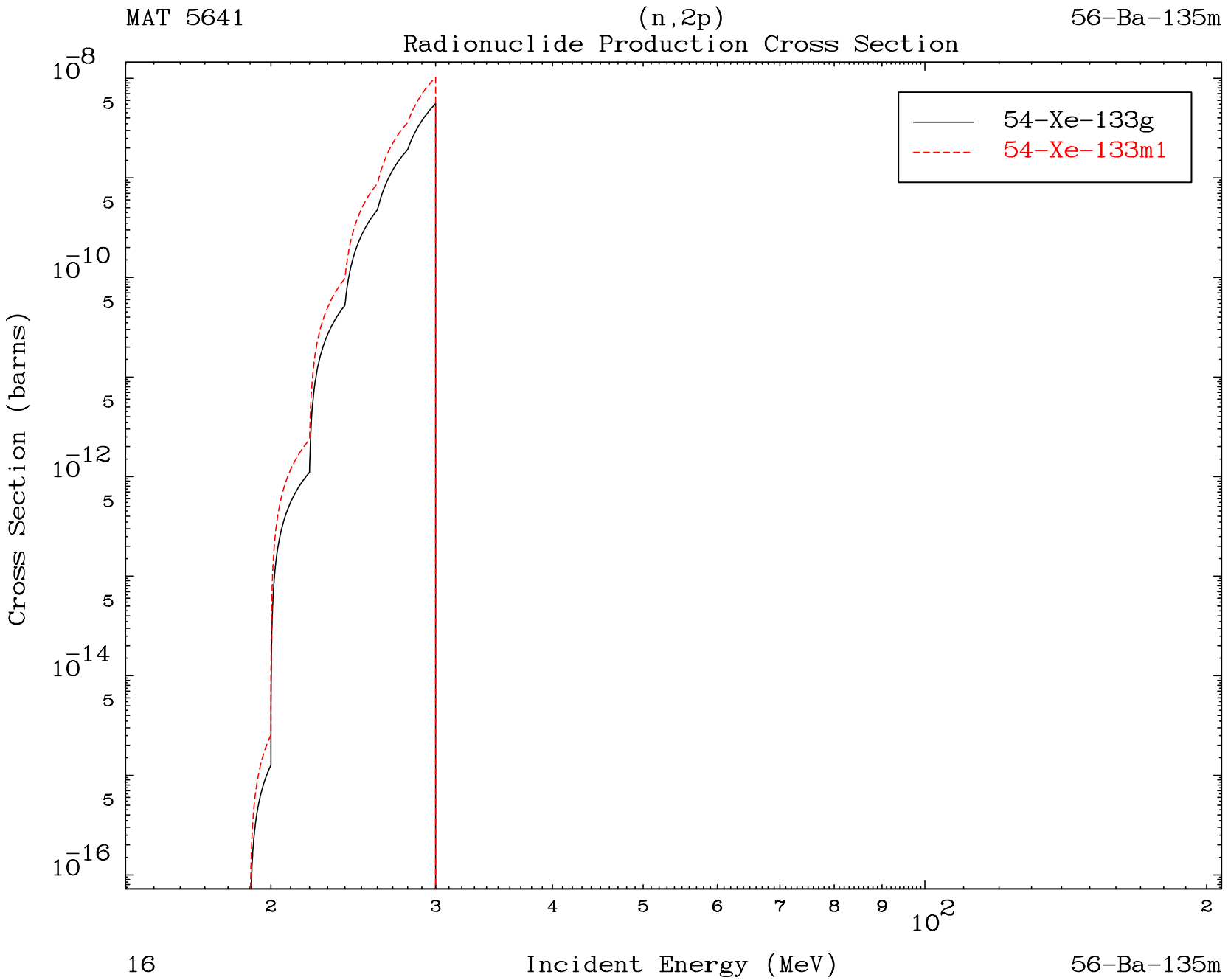

MAT 5641
(n,2n)
56-Ba-135m
Radionuclide Production Cross Section
56-Ba-133g
56-Ba-133m2
Cross Section (barns)
10-2
10-3
4
2
8
6
4
2
8
6
4
2
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
56-Ba-135m

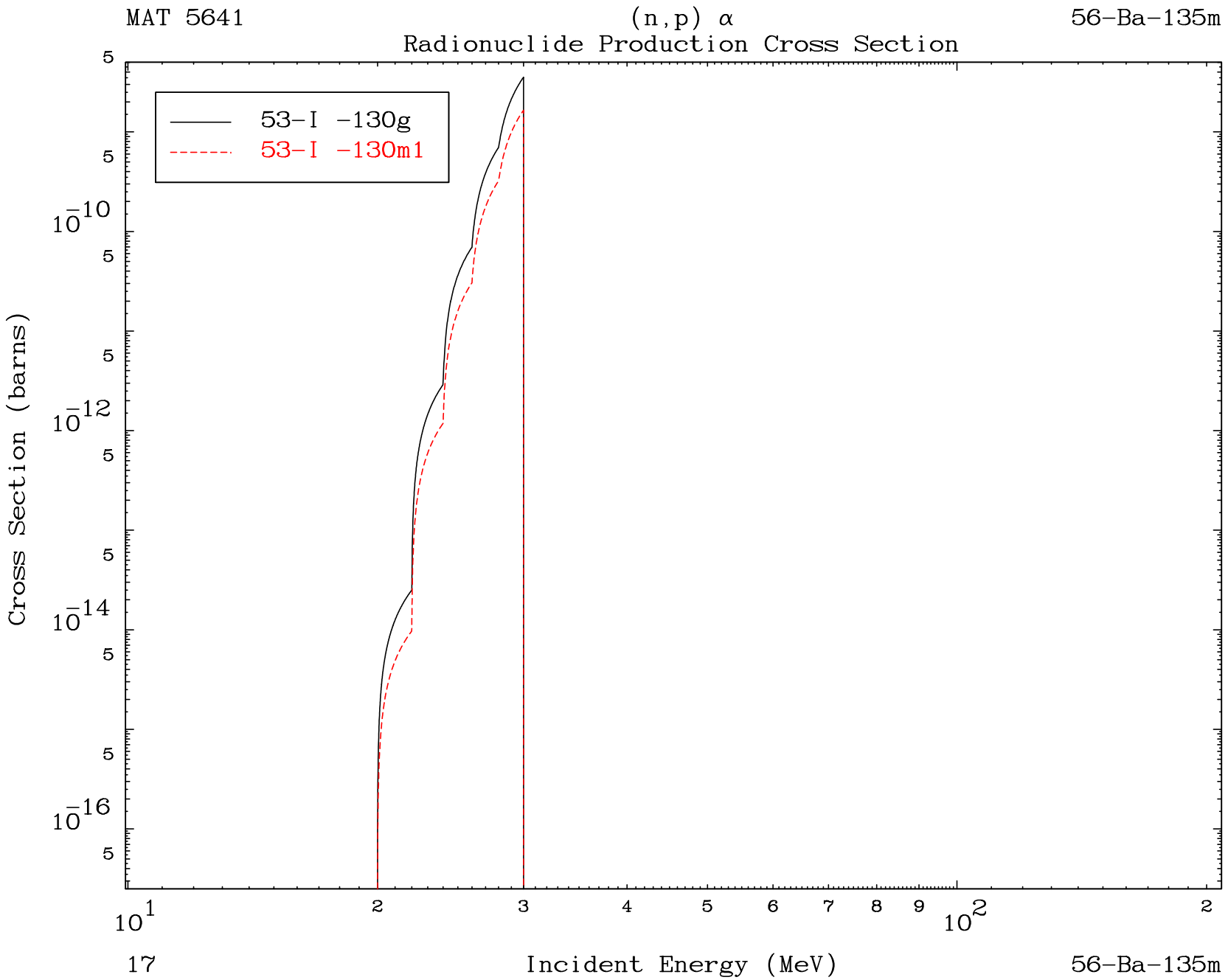

MAT 5641
(n,2n) α
56-Ba-135m
Radionuclide Production Cross Section
54-Xe-129g
54-Xe-129m2
Cross Section (barns)
Incident Energy (MeV)
12
56-Ba-135m


MAT 5641
(n,γ)
56-Ba-135m
Radionuclide Production Cross Section
56-Ba-135g
56-Ba-135m2
Cross Section (barns)
Incident Energy (MeV)
13
56-Ba-135m


MAT 5641
(n,p)
56-Ba-135m
Radionuclide Production Cross Section
55-Cs-134g
55-Cs-134m3
Cross Section (barns)
Incident Energy (MeV)
14
56-Ba-135m


MAT 5641
(n,α)
56-Ba-135m
Radionuclide Production Cross Section
54-Xe-131g
54-Xe-131m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
4
6
8
10^1
10^2
15
Incident Energy (MeV)
56-Ba-135m


MAT 5641
(n,2p)
56-Ba-135m
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
Incident Energy (MeV)
16
56-Ba-135m


MAT 5641
(n,p) α
56-Ba-135m
Radionuclide Production Cross Section
53-I -130g
53-I -130m1
Cross Section (barns)
Incident Energy (MeV)
56-Ba-135m
17