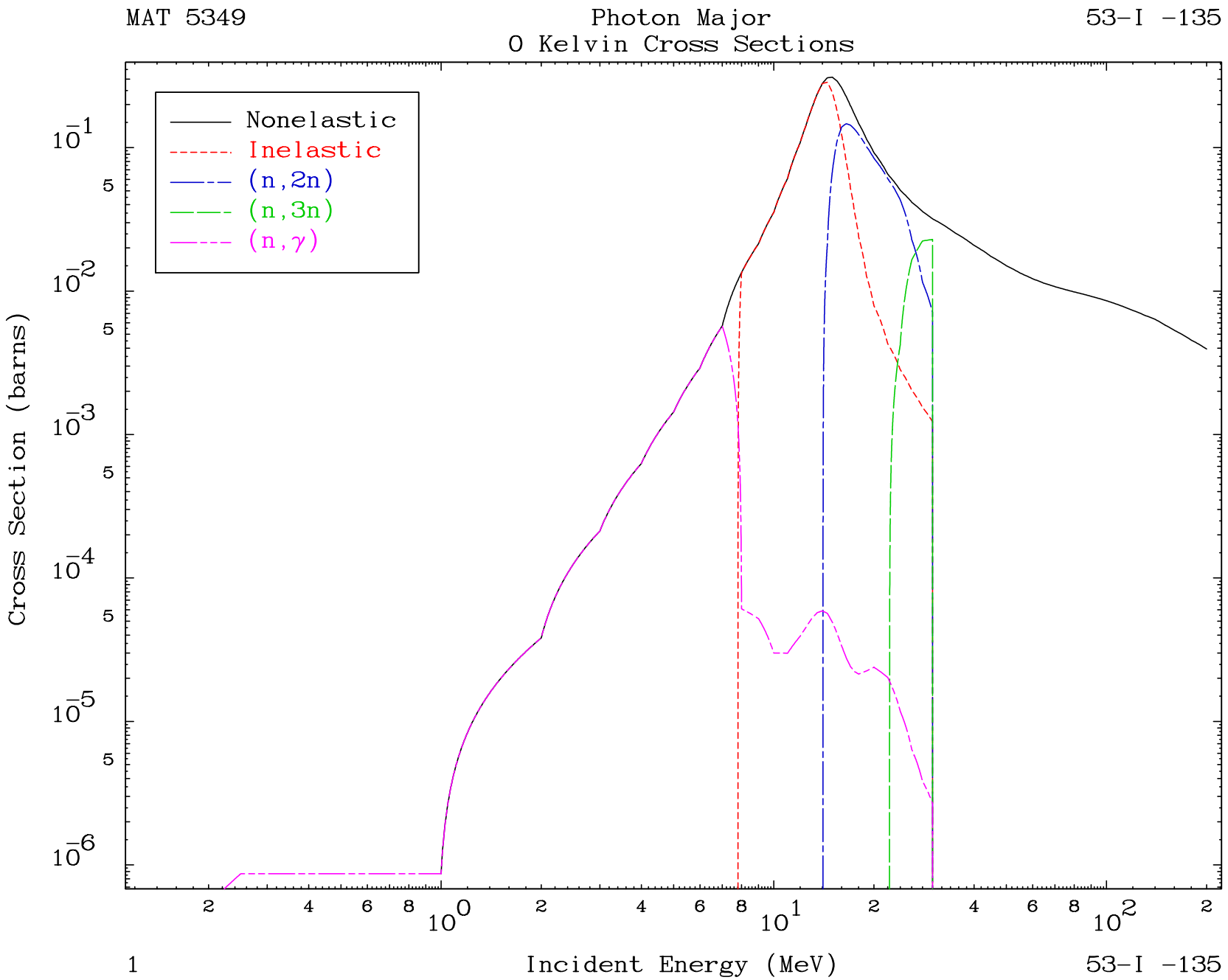
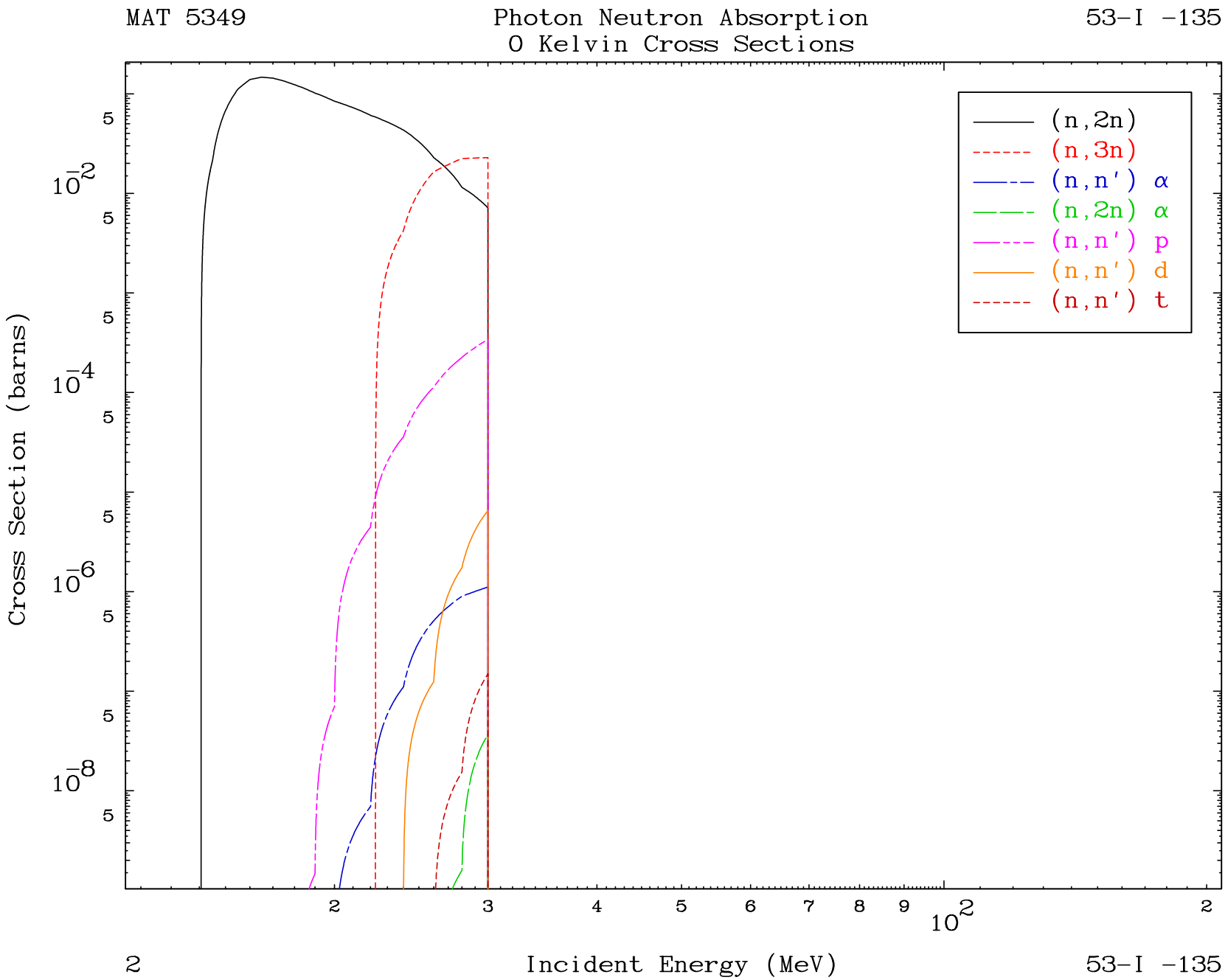
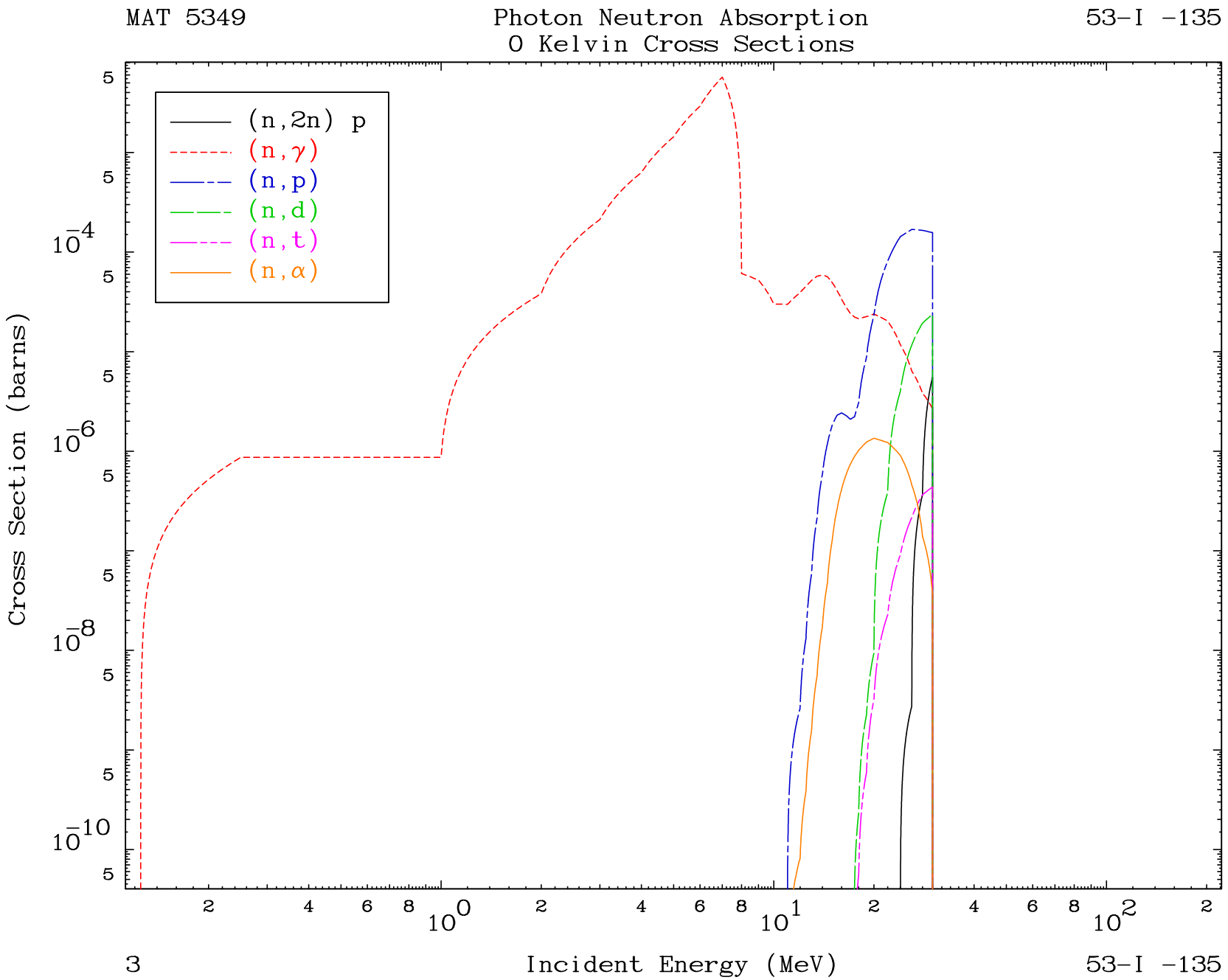
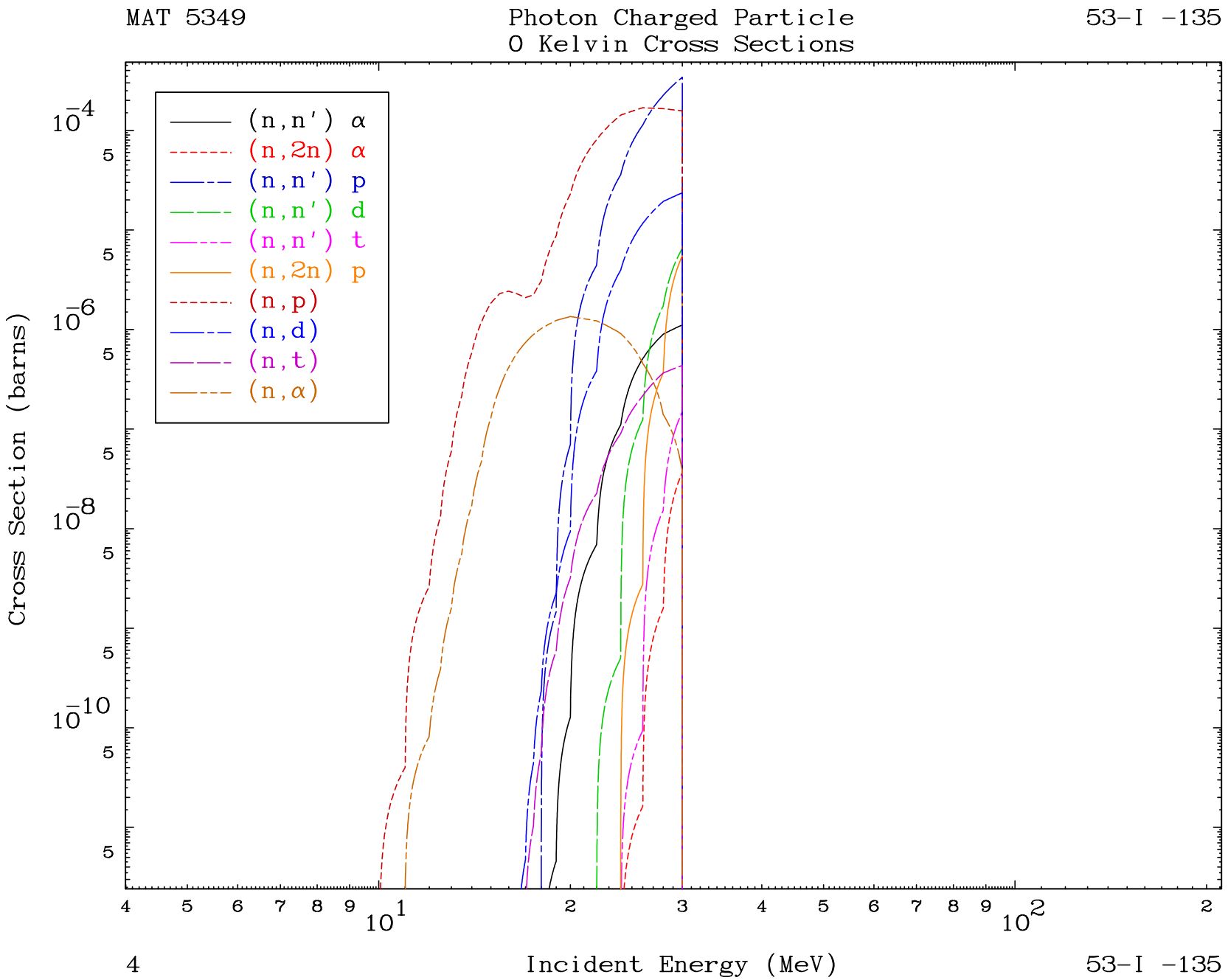
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

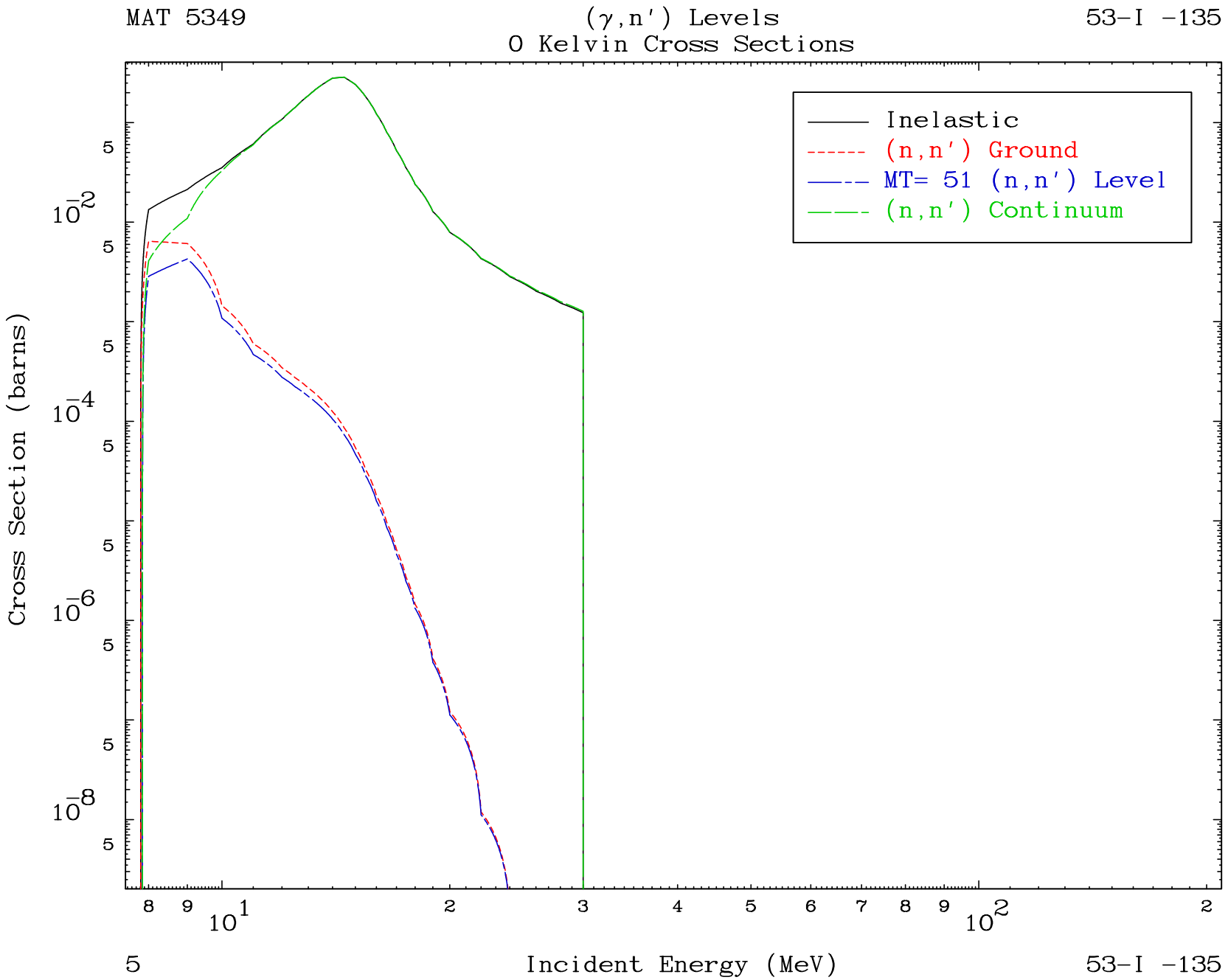
Press Mouse Button to Start

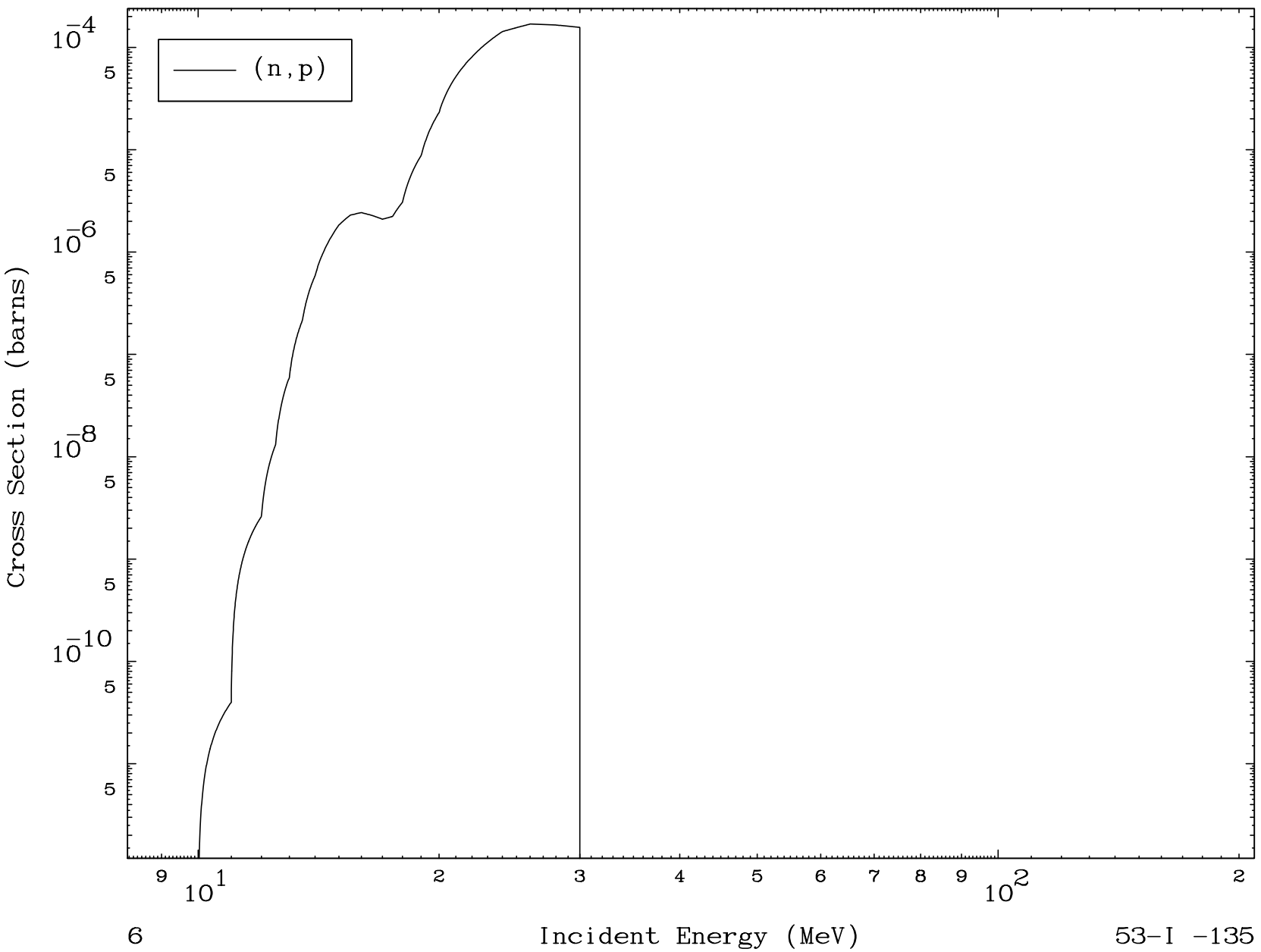

MAT 5349
Photon Major
53-I -135
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
53-I -135


MAT 5349
Photon Neutron Absorption
0 Kelvin Cross Sections
53-I -135
Cross Section (barns)
10-2
10-4
10-6
10-8
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
53-I -135

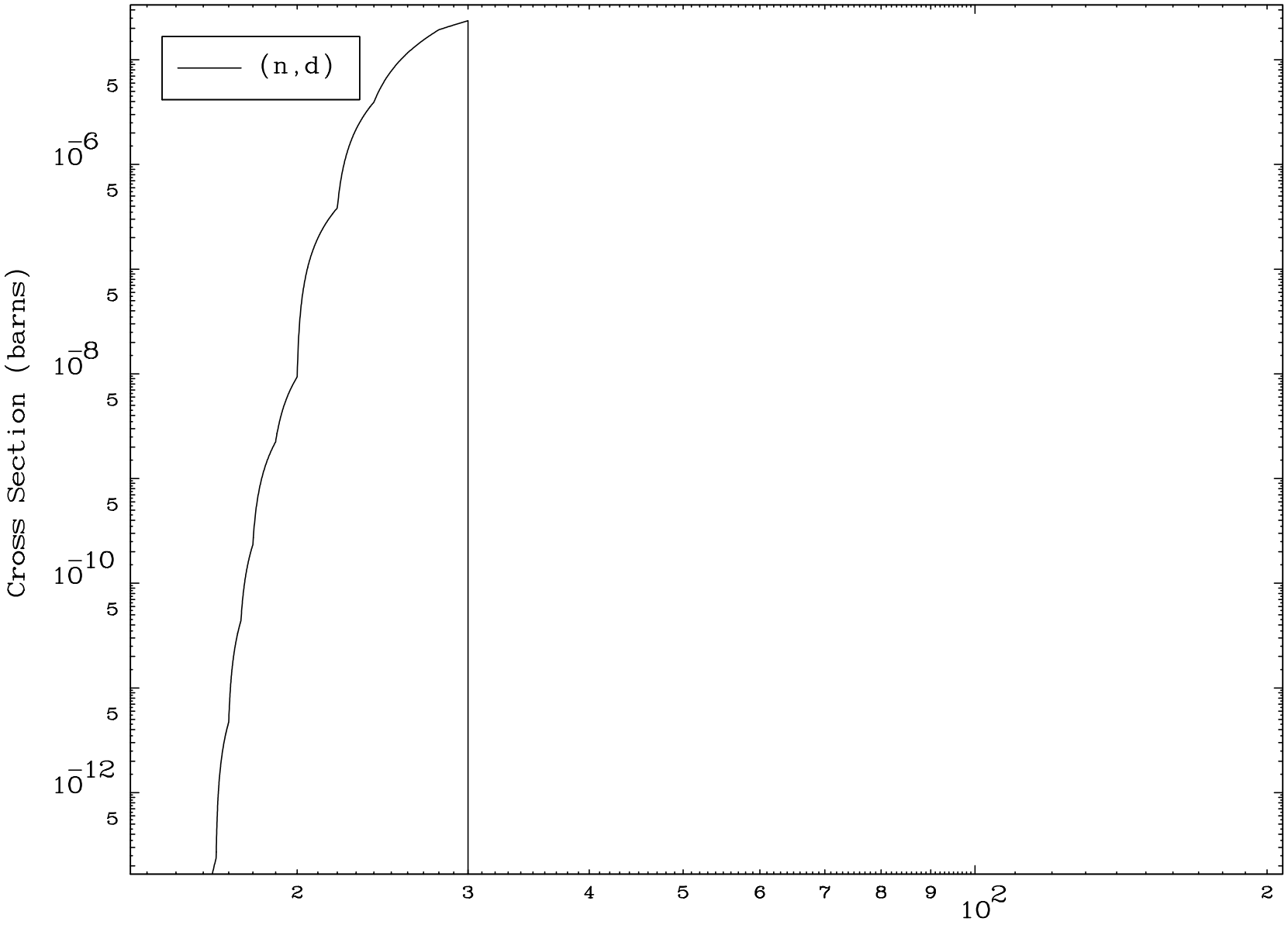

MAT 5349
Photon Neutron Absorption
0 Kelvin Cross Sections
53-I -135
(n,2n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
3
53-I -135

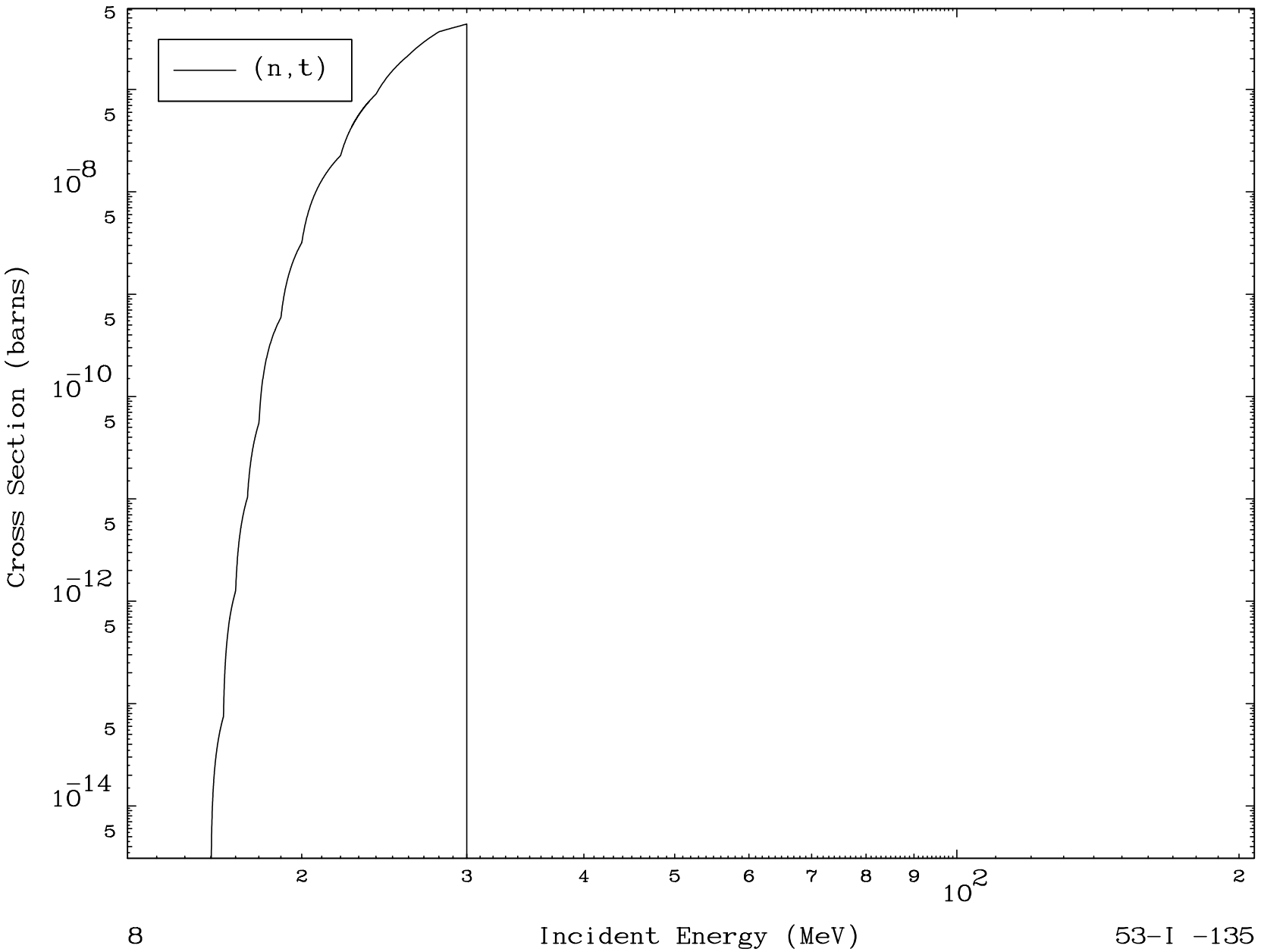

MAT 5349
Photon Charged Particle
0 Kelvin Cross Sections
53-I -135
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,p)
(n,d)
(n,t)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
53-I -135
4

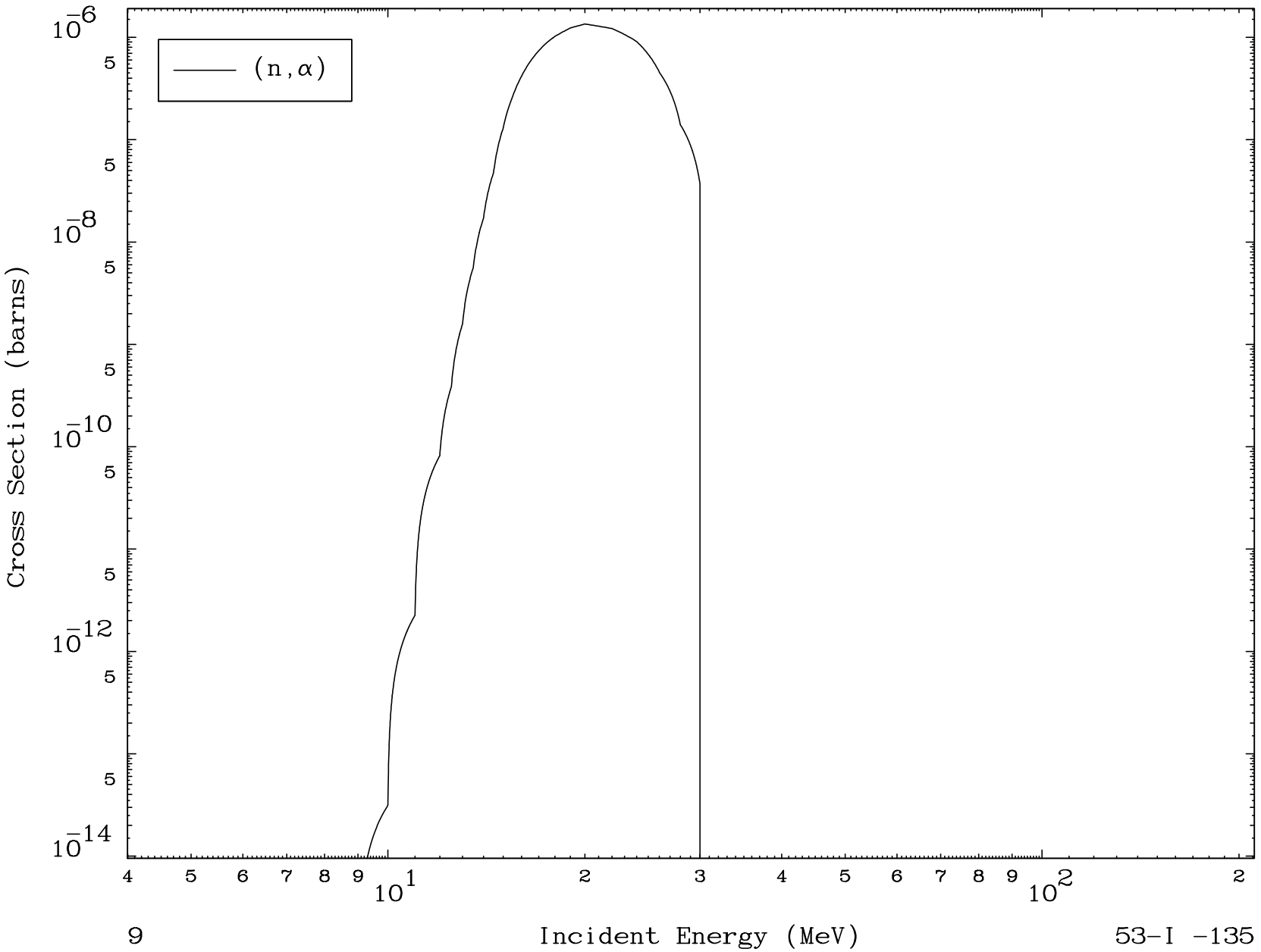

MAT 5349
(γ,n') Levels
0 Kelvin Cross Sections
53-I -135
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
(n,n') Continuum
Cross Section (barns)
10-2
10-4
10-6
10-8
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
53-I -135

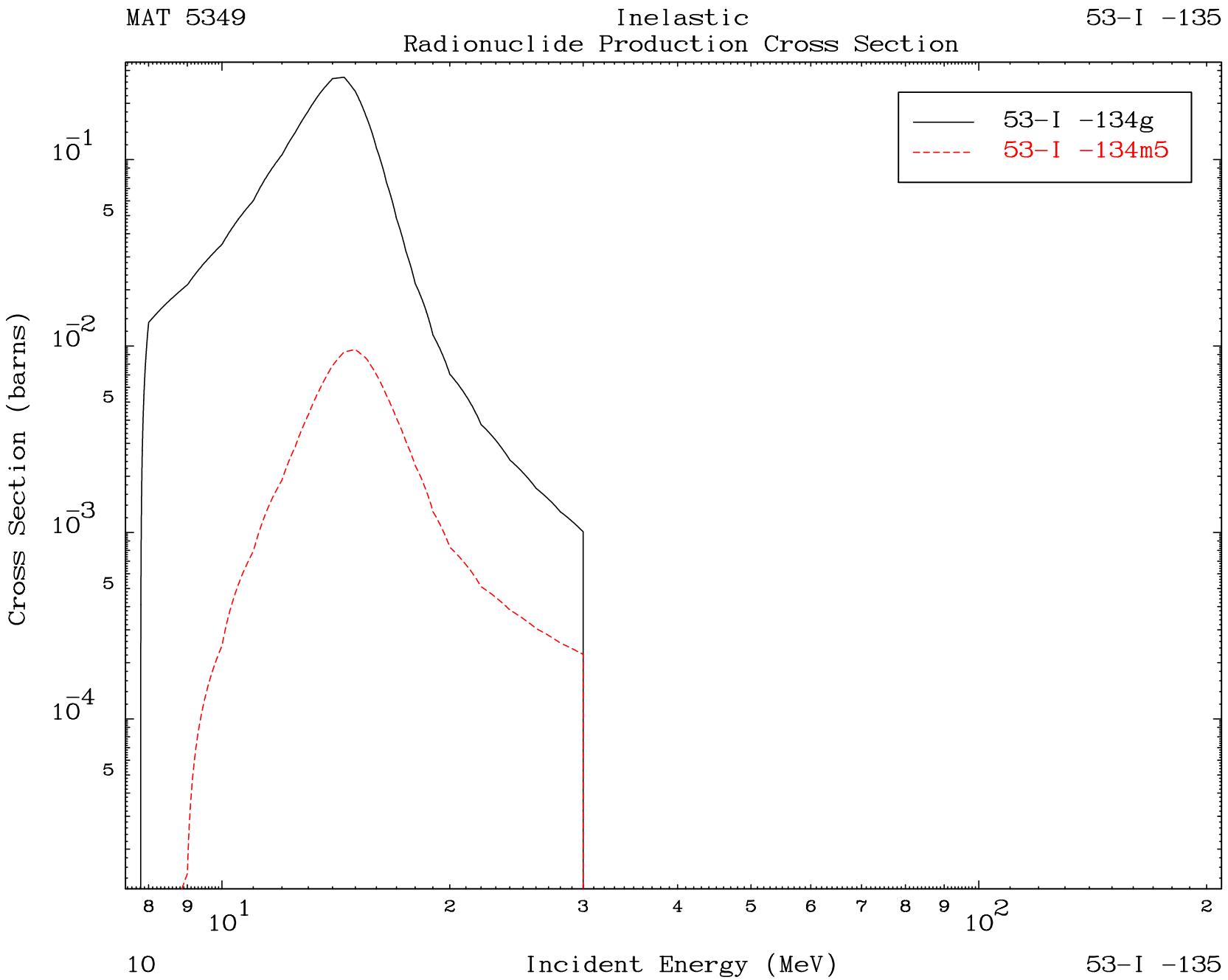

0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)

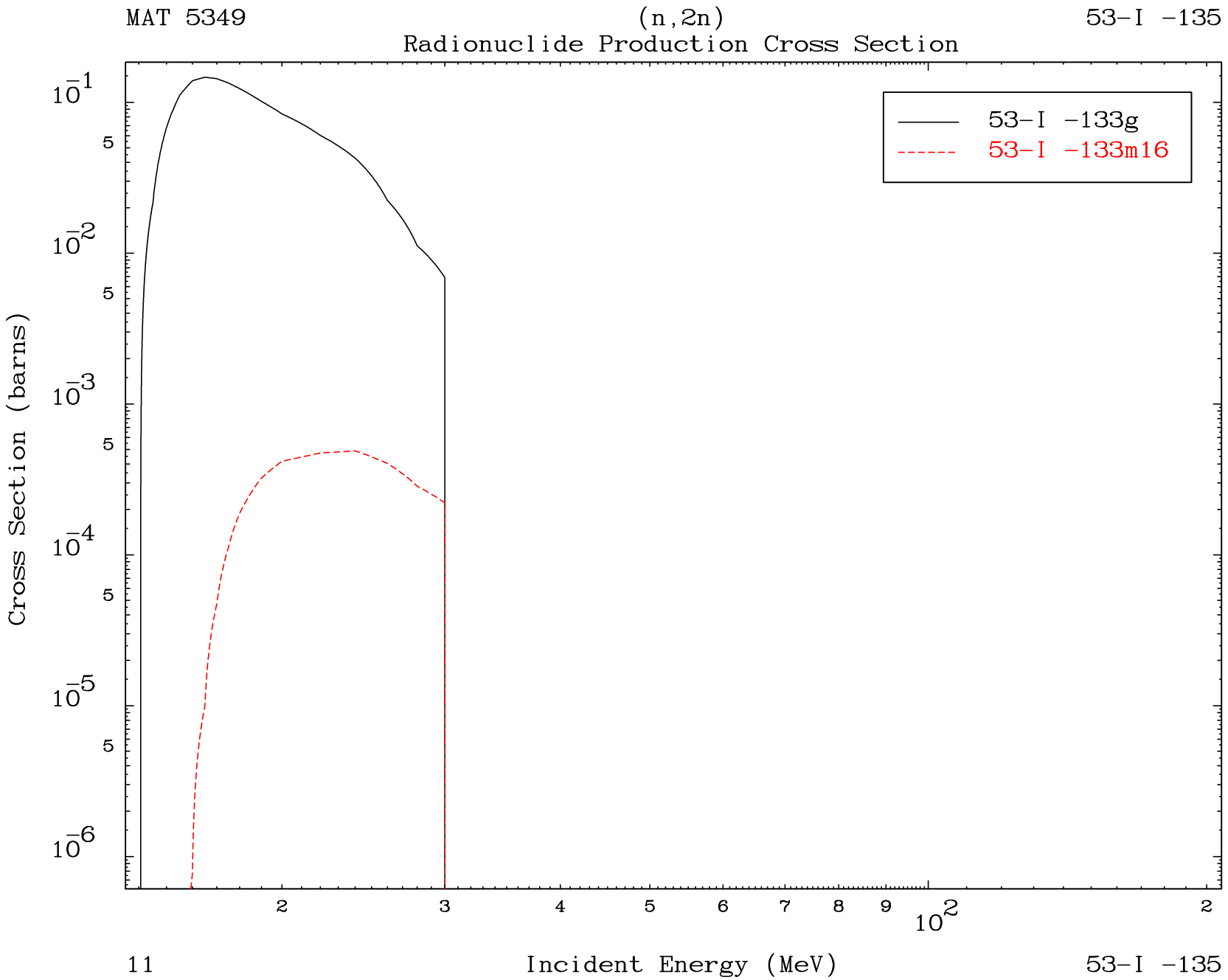
0 Kelvin Cross Sections

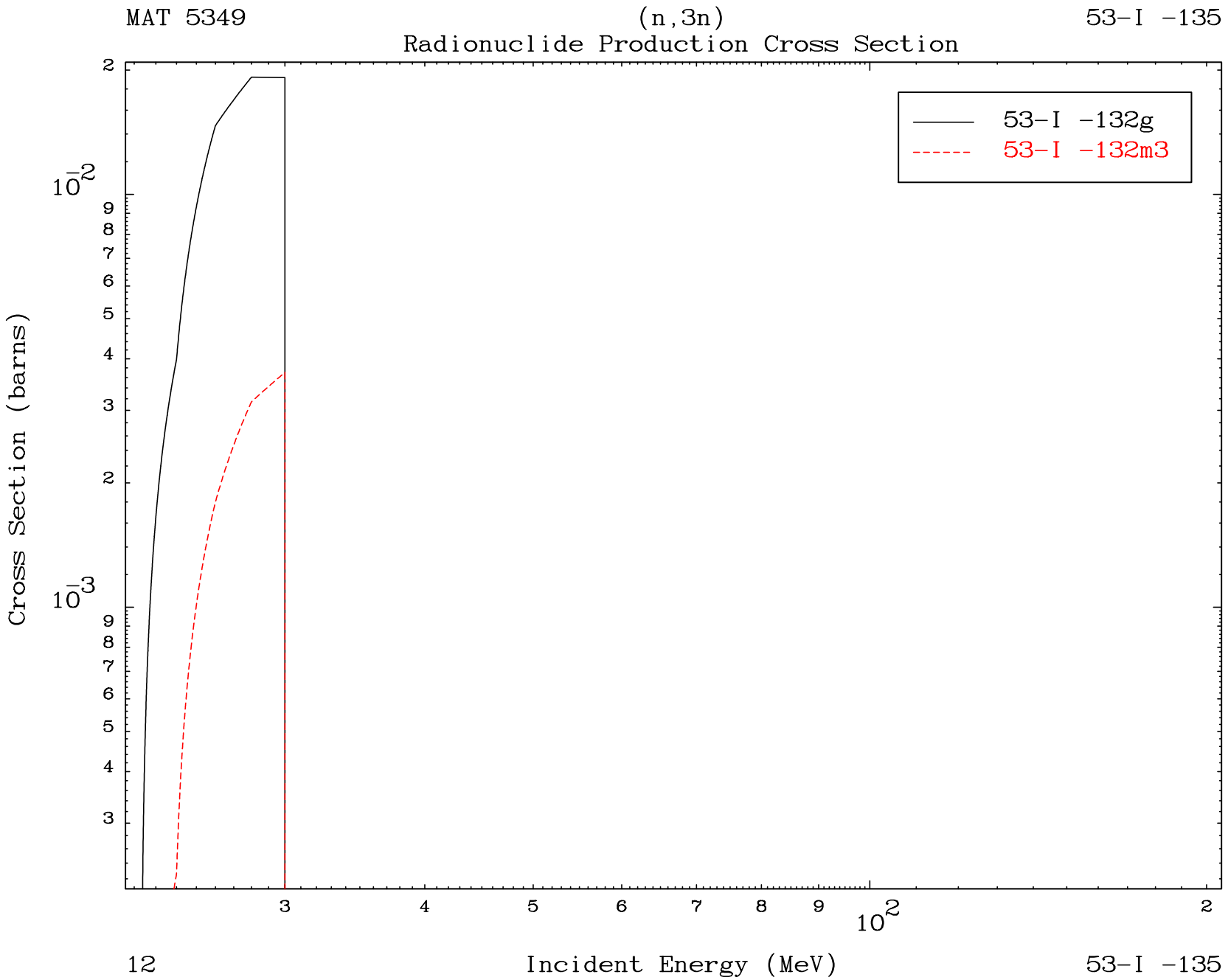


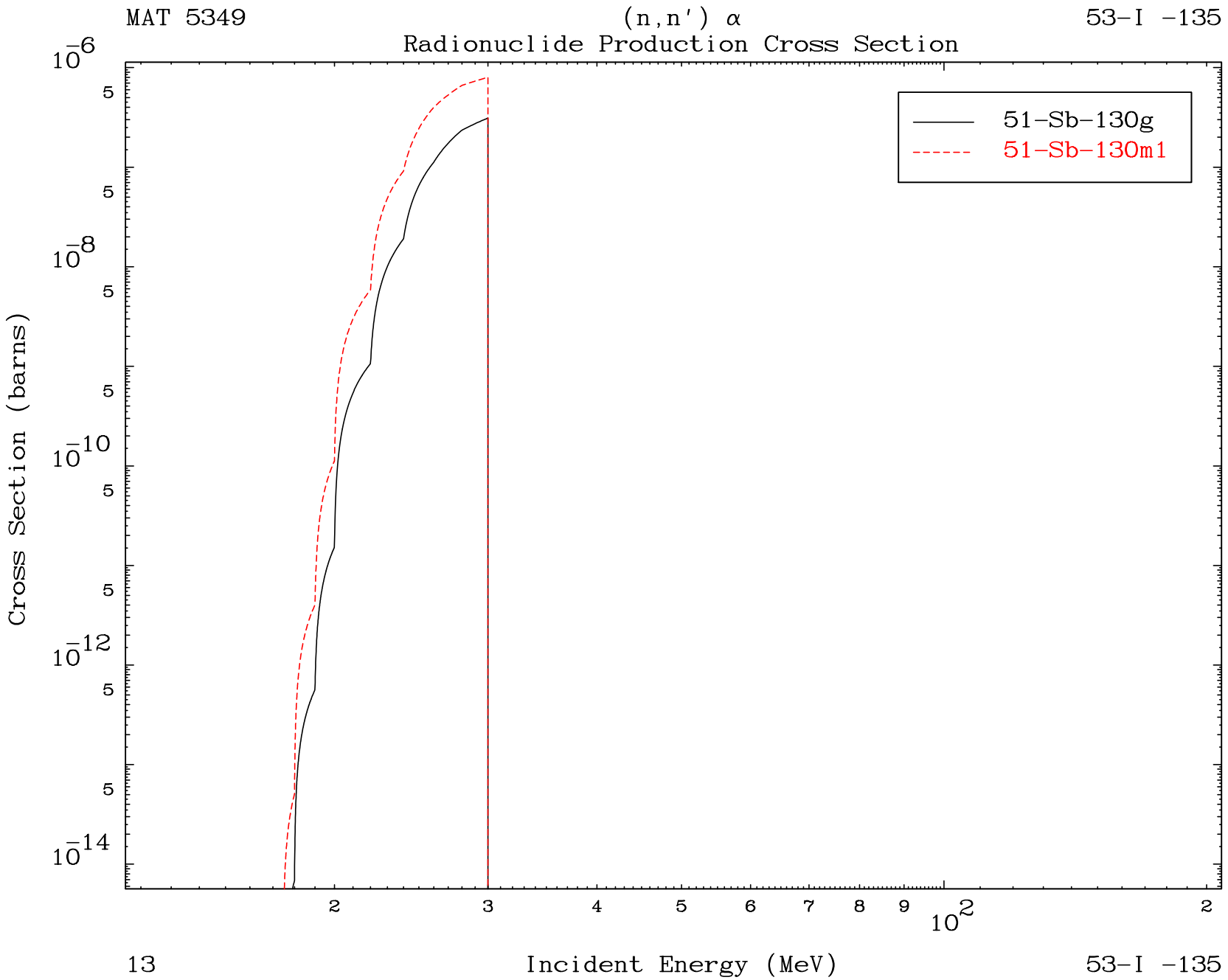

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

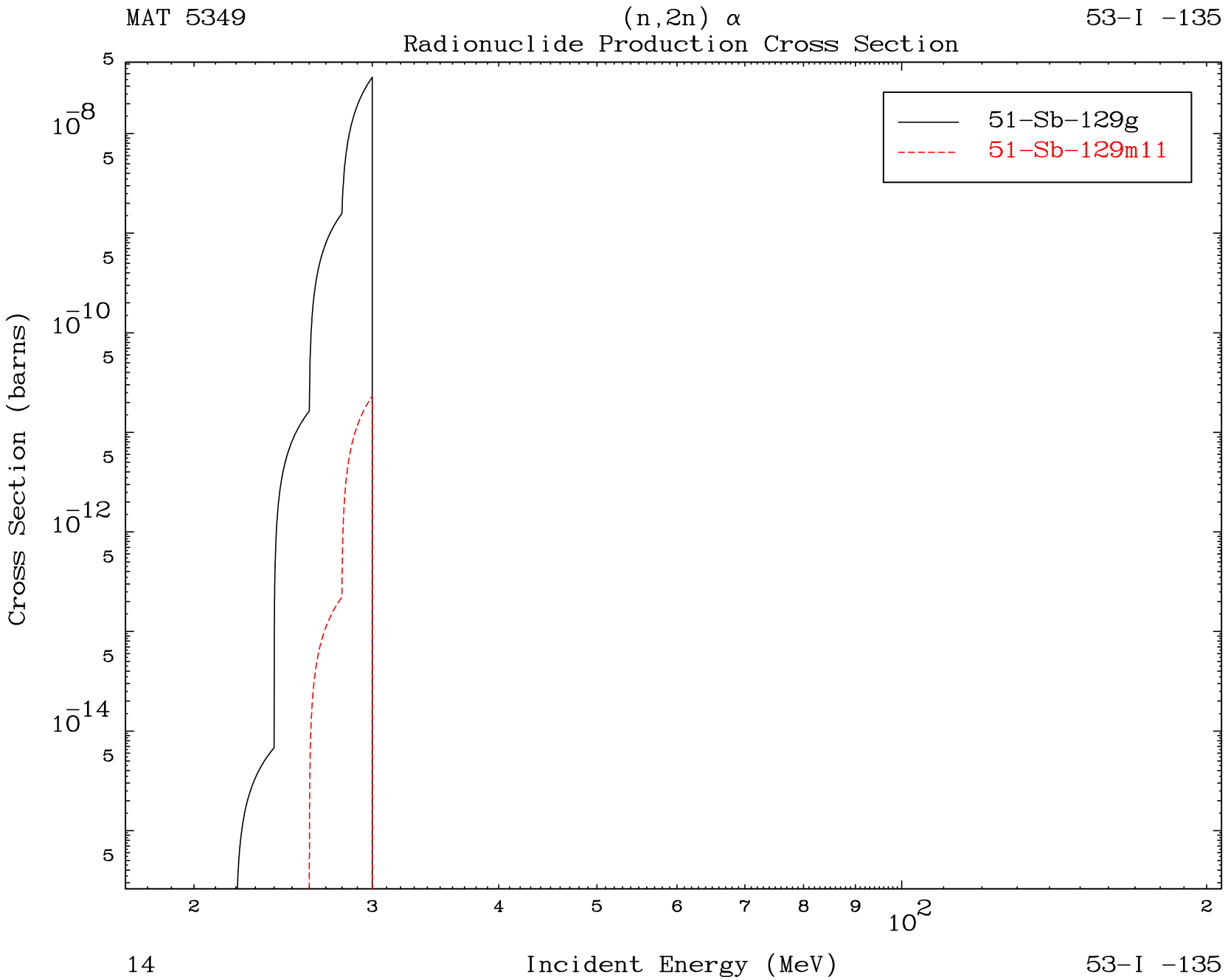

0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-6
5
10^-8
5
10^-10
5
10^-12
5
10^-14
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

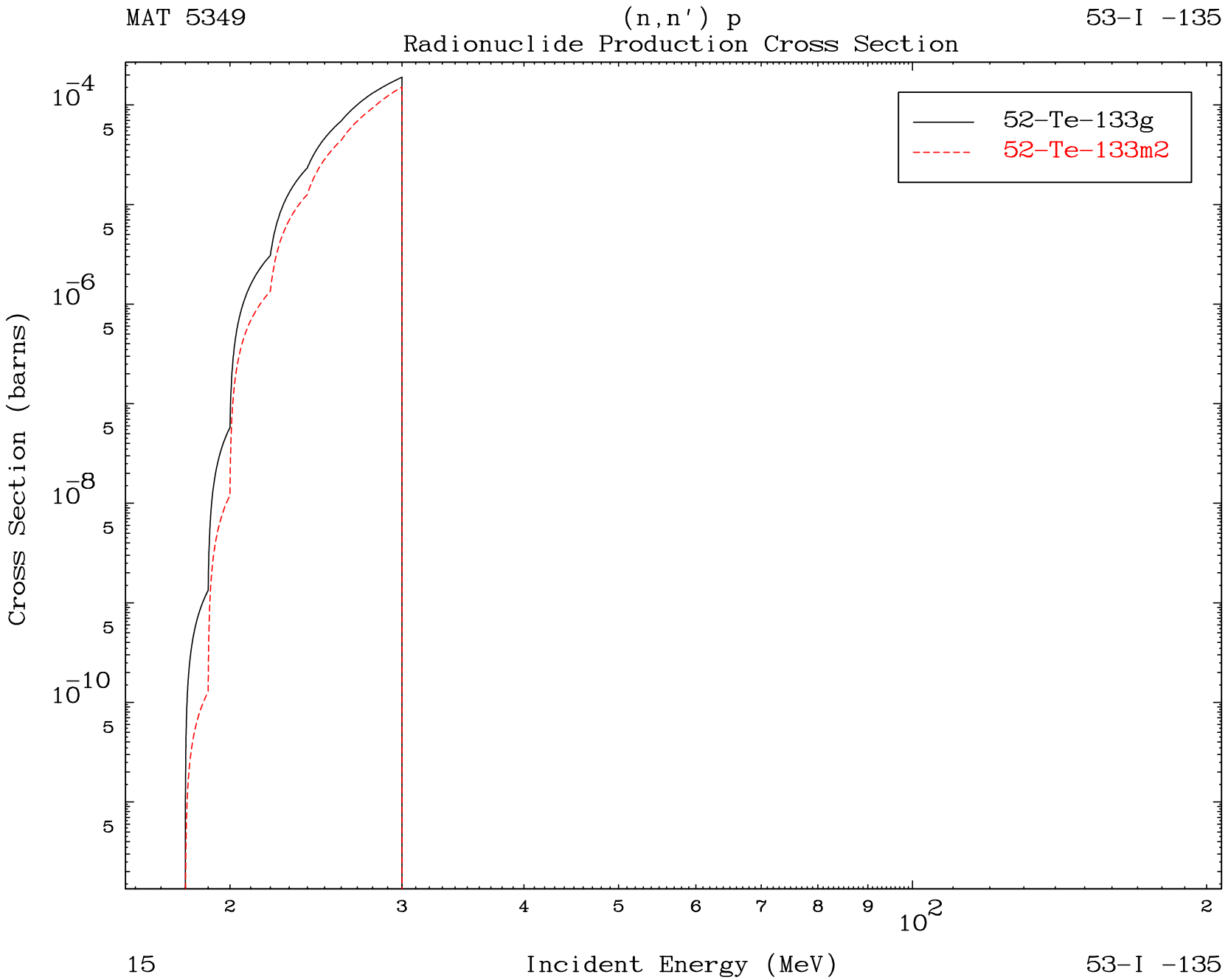

MAT 5349
Inelastic
53-I -135
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
Incident Energy (MeV)
53-I -135

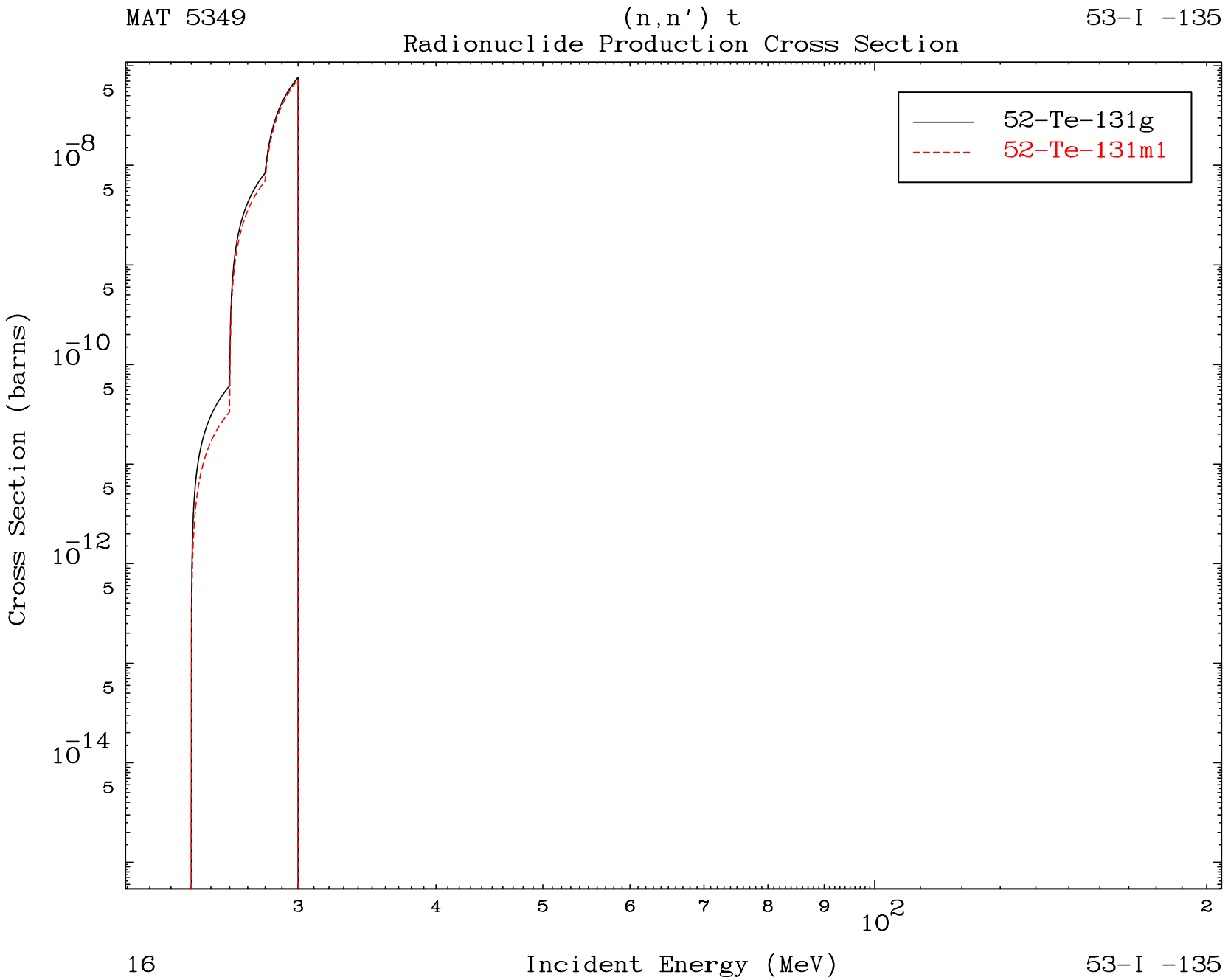

MAT 5349
(n,2n)
53-I -135
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
Incident Energy (MeV)
11
53-I -135

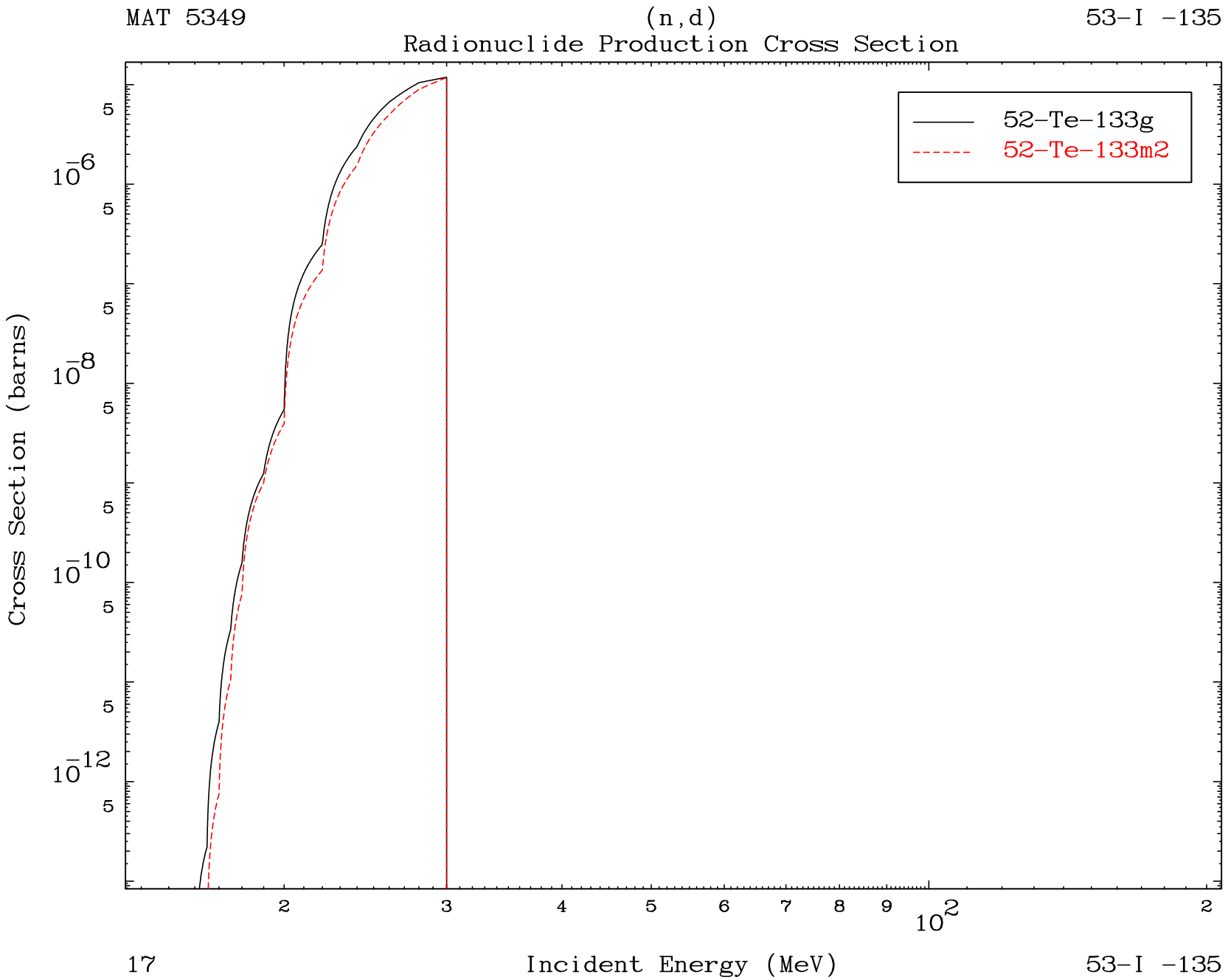

MAT 5349
(n,3n)
53-I -135
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
10^-2
10^-3
2
9
8
7
6
5
4
3
2
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
53-I -135


MAT 5349
(n,n') α
53-I -135
Radionuclide Production Cross Section
51-Sb-130g
51-Sb-130m1
Cross Section (barns)
Incident Energy (MeV)
13
53-I -135


MAT 5349
(n,2n) α
53-I -135
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
Incident Energy (MeV)
14
53-I -135


MAT 5349
(n,n') p
53-I -135
Radionuclide Production Cross Section
52-Te-133g
52-Te-133m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
53-I -135


MAT 5349
(n,n') t
53-I -135
Radionuclide Production Cross Section
52-Te-131g
52-Te-131m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
53-I -135


MAT 5349
(n,d)
53-I -135
Radionuclide Production Cross Section
52-Te-133g
52-Te-133m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
53-I -135