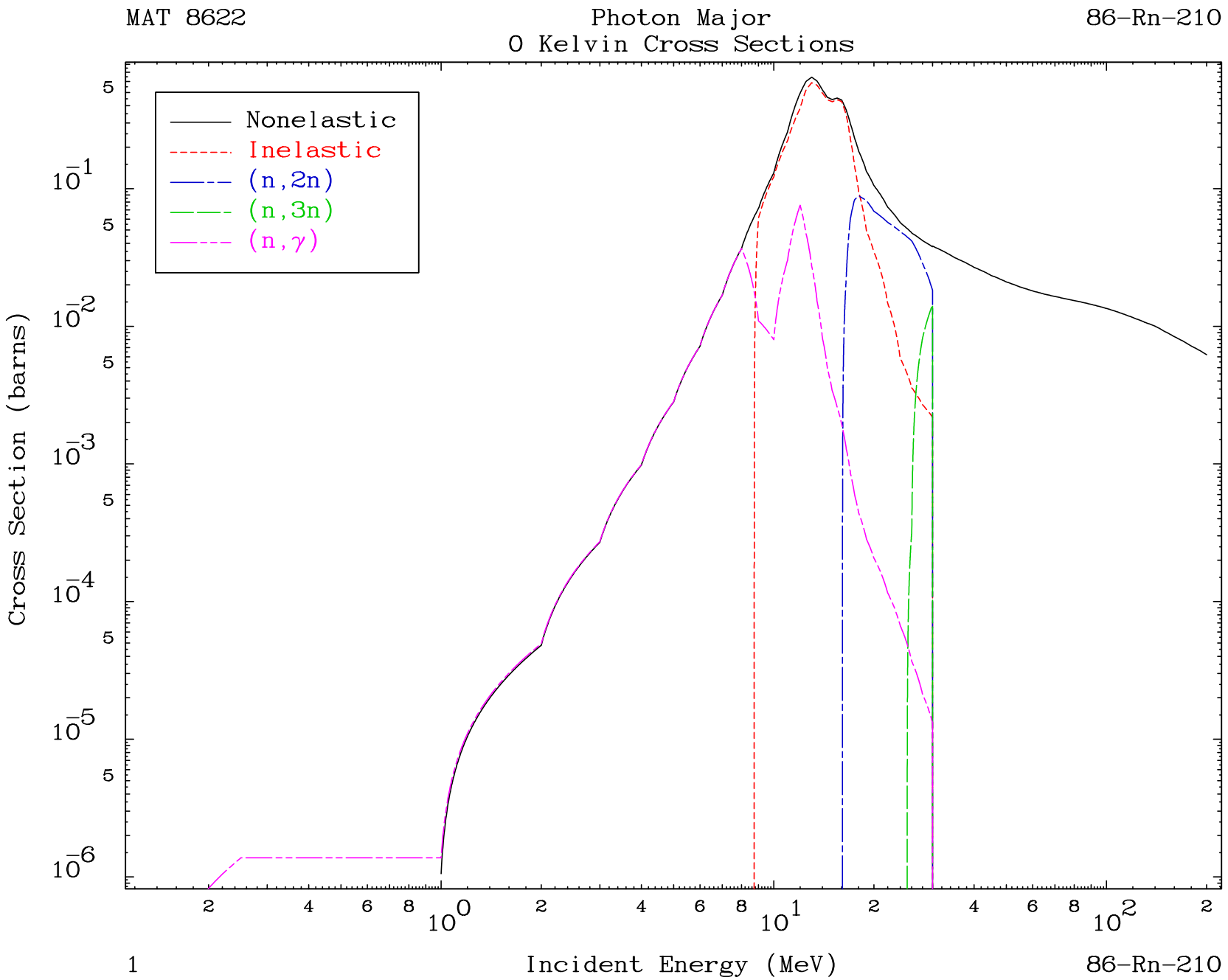
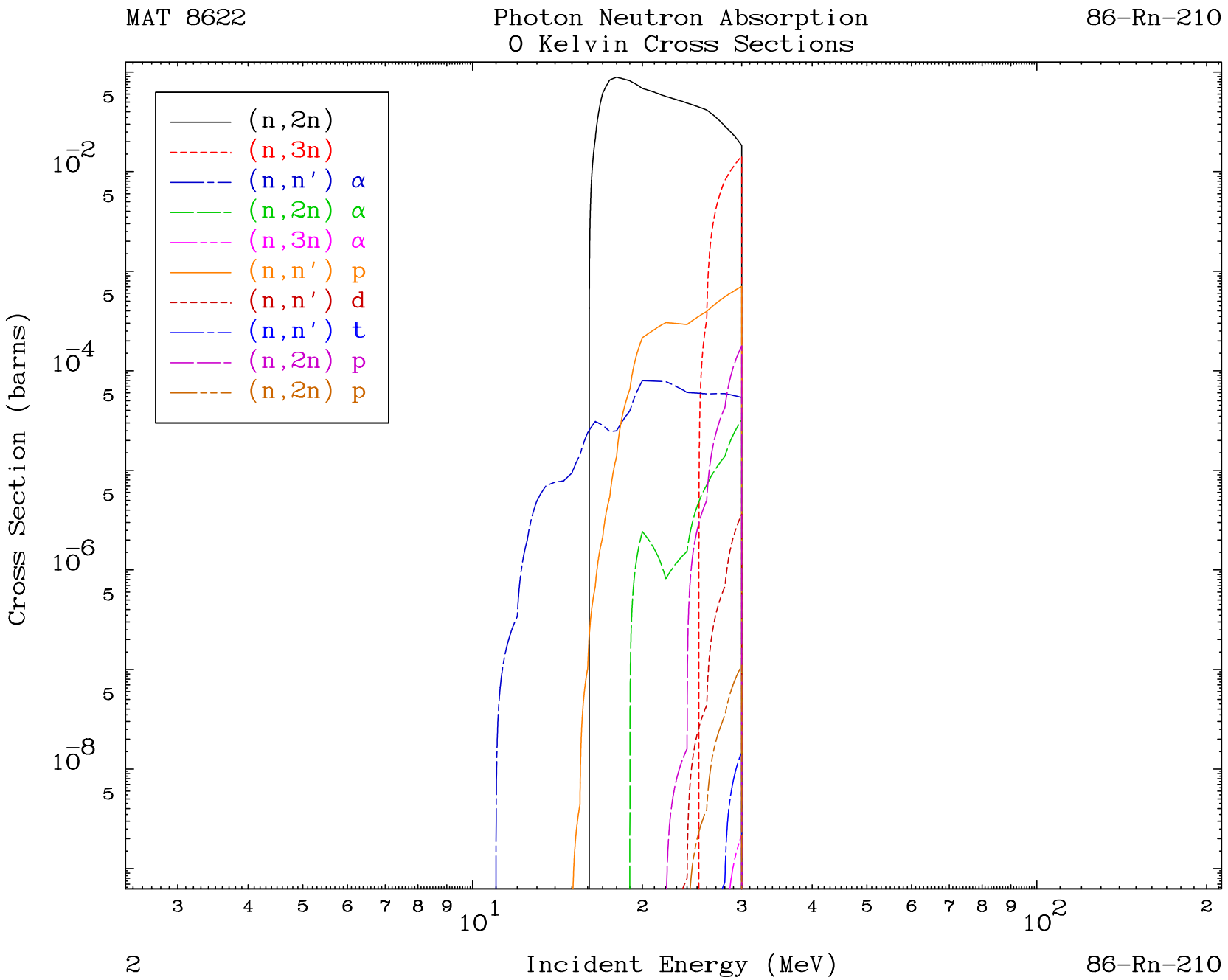
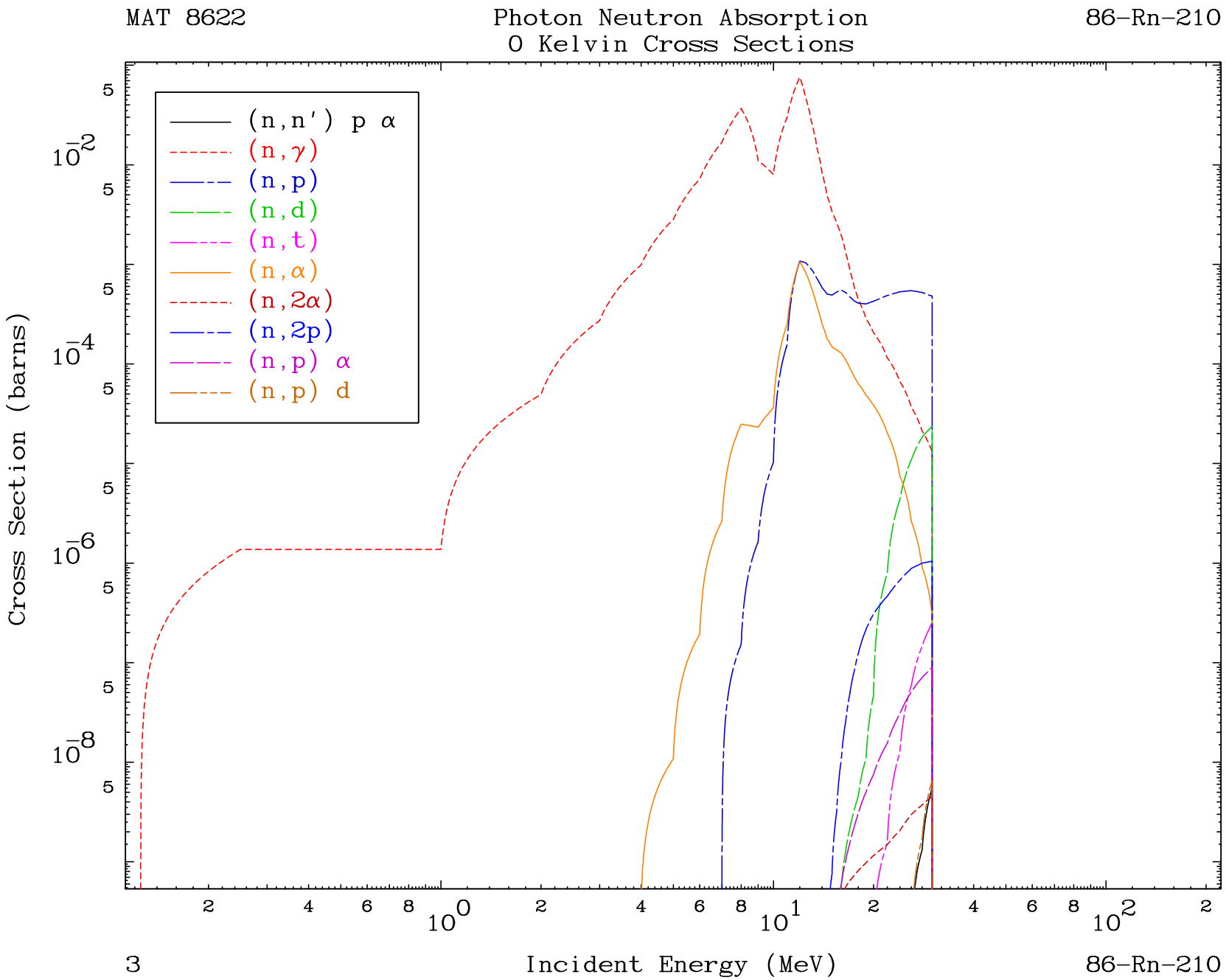
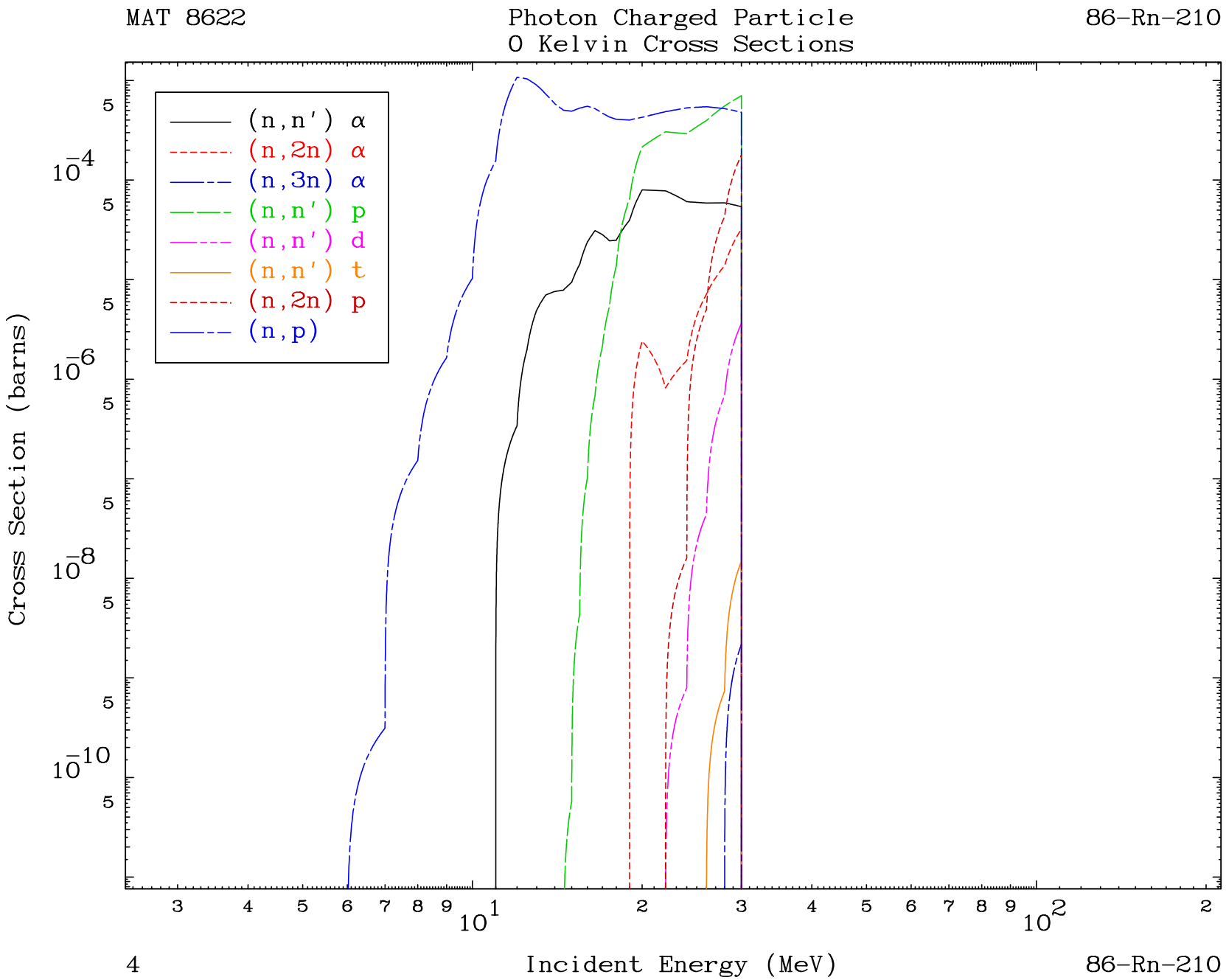
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

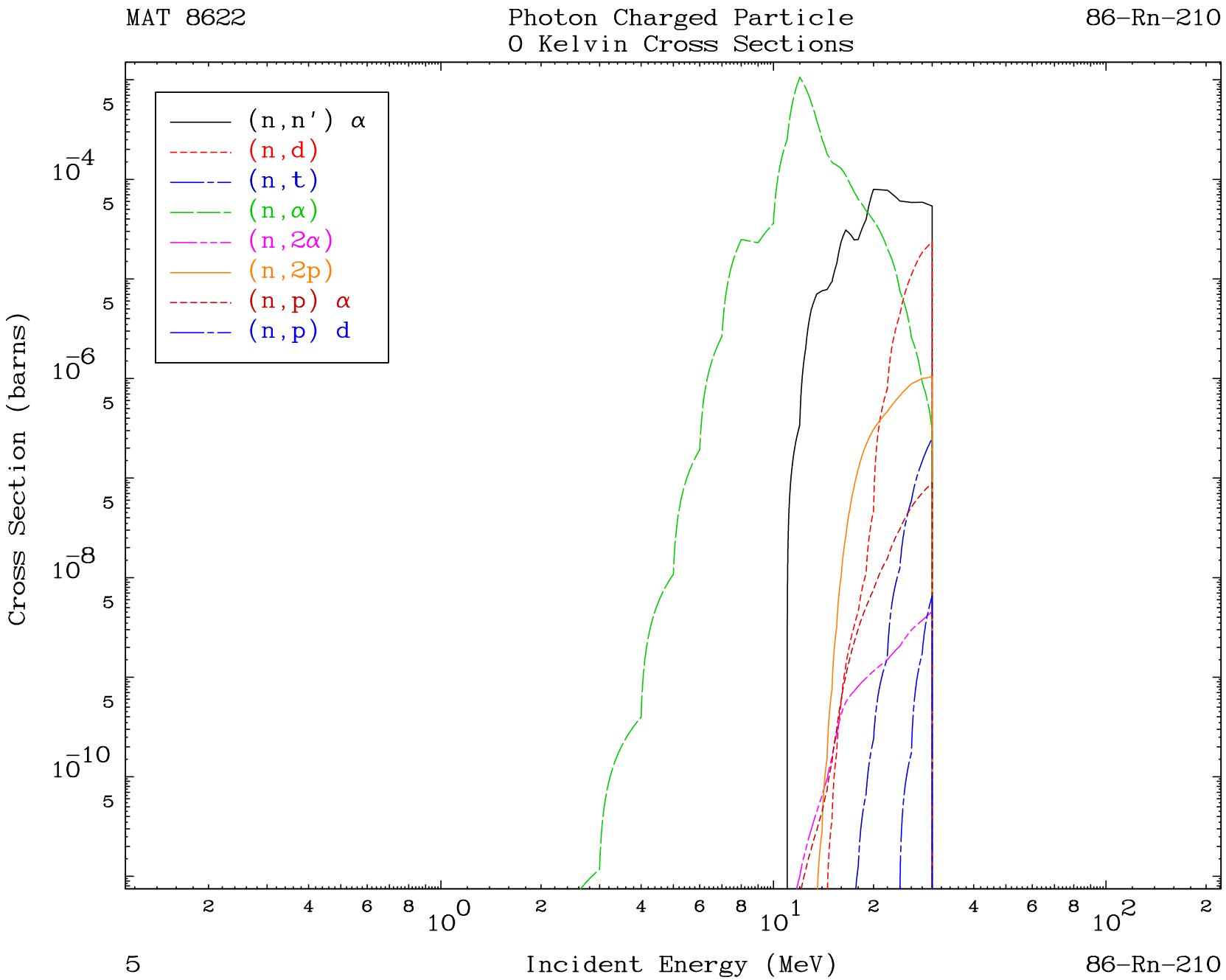
Press Mouse Button to Start

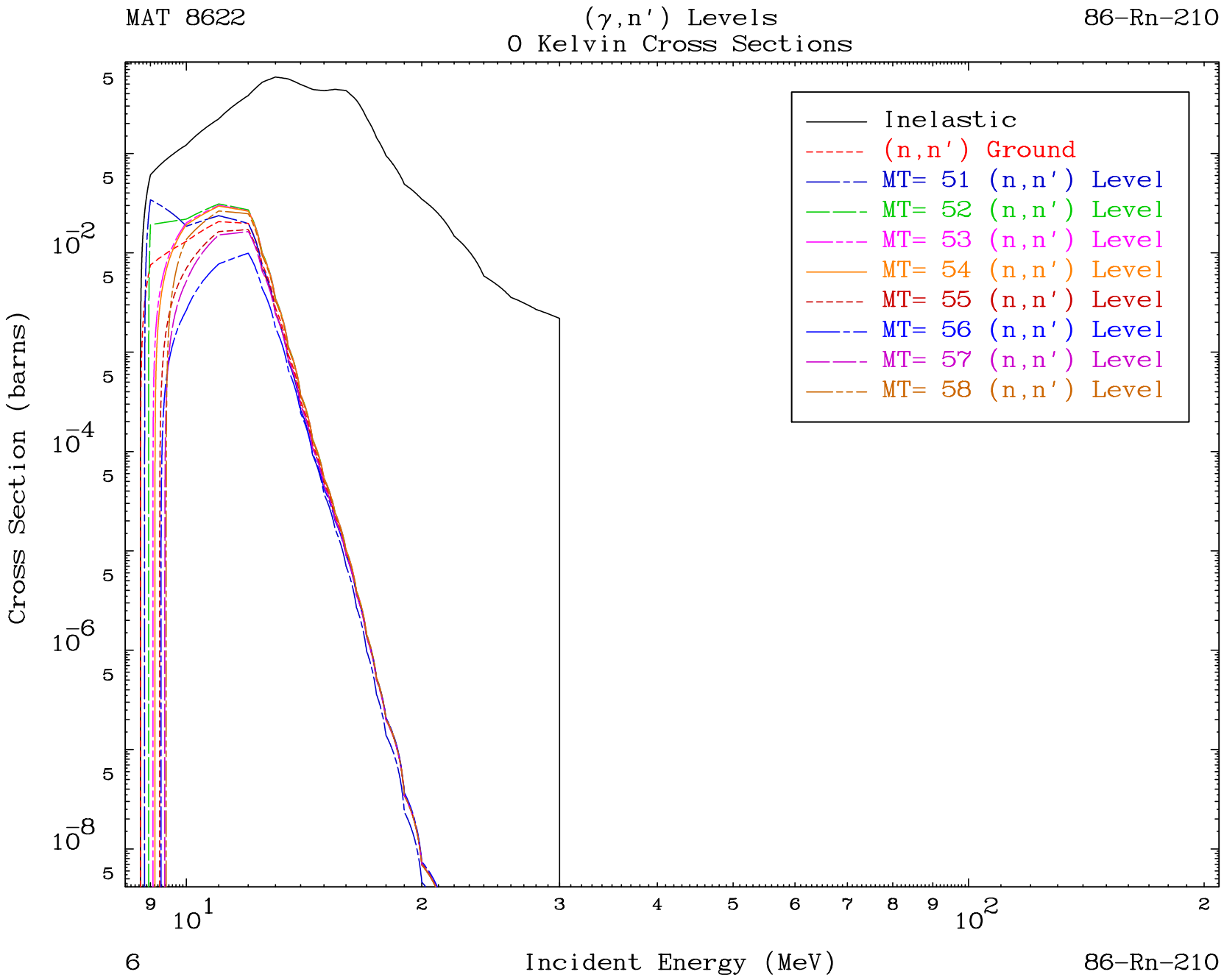

MAT 8622
Photon Major
86-Rn-210
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
86-Rn-210
1

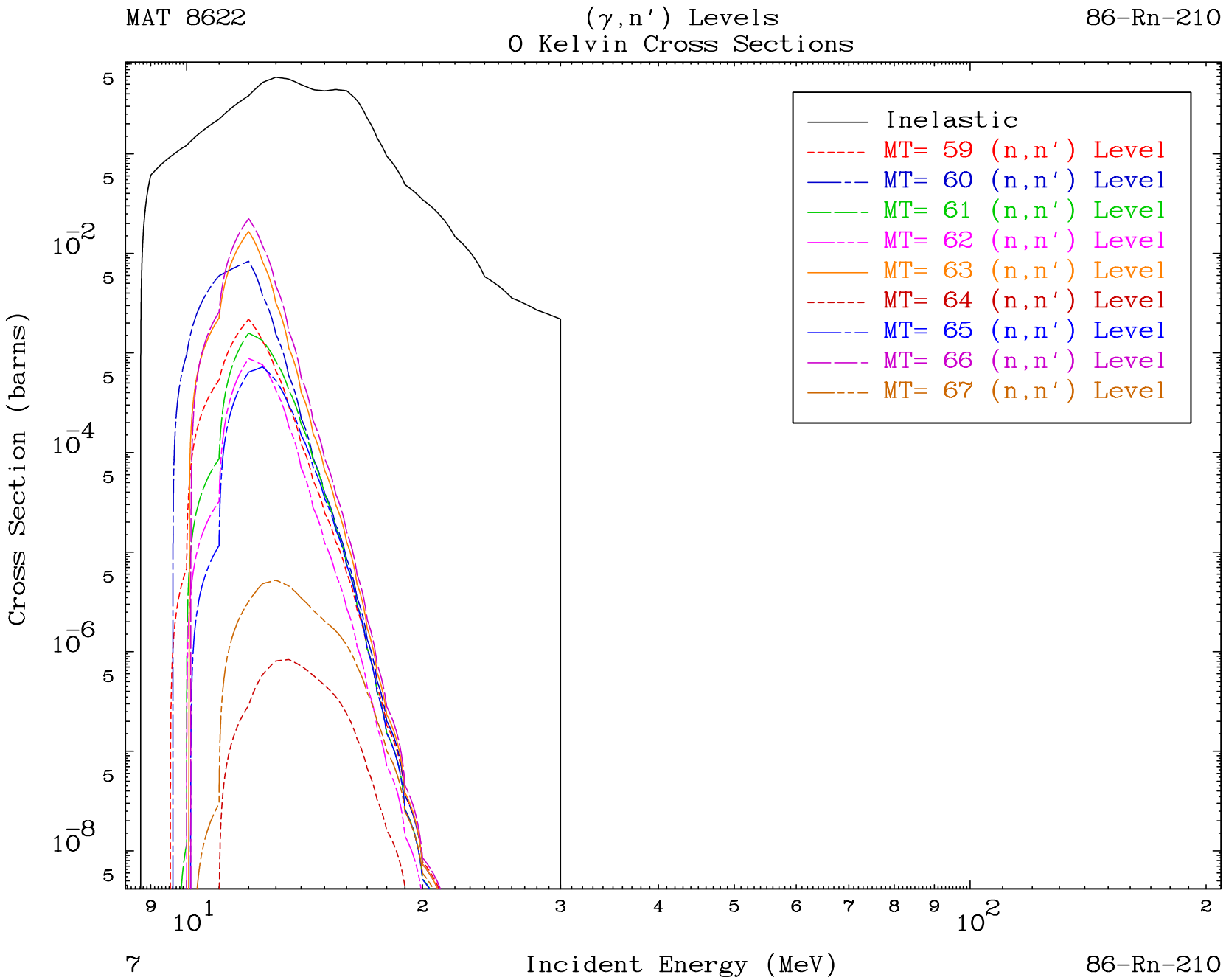

MAT 8622
Photon Neutron Absorption
0 Kelvin Cross Sections
86-Rn-210
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
2
86-Rn-210

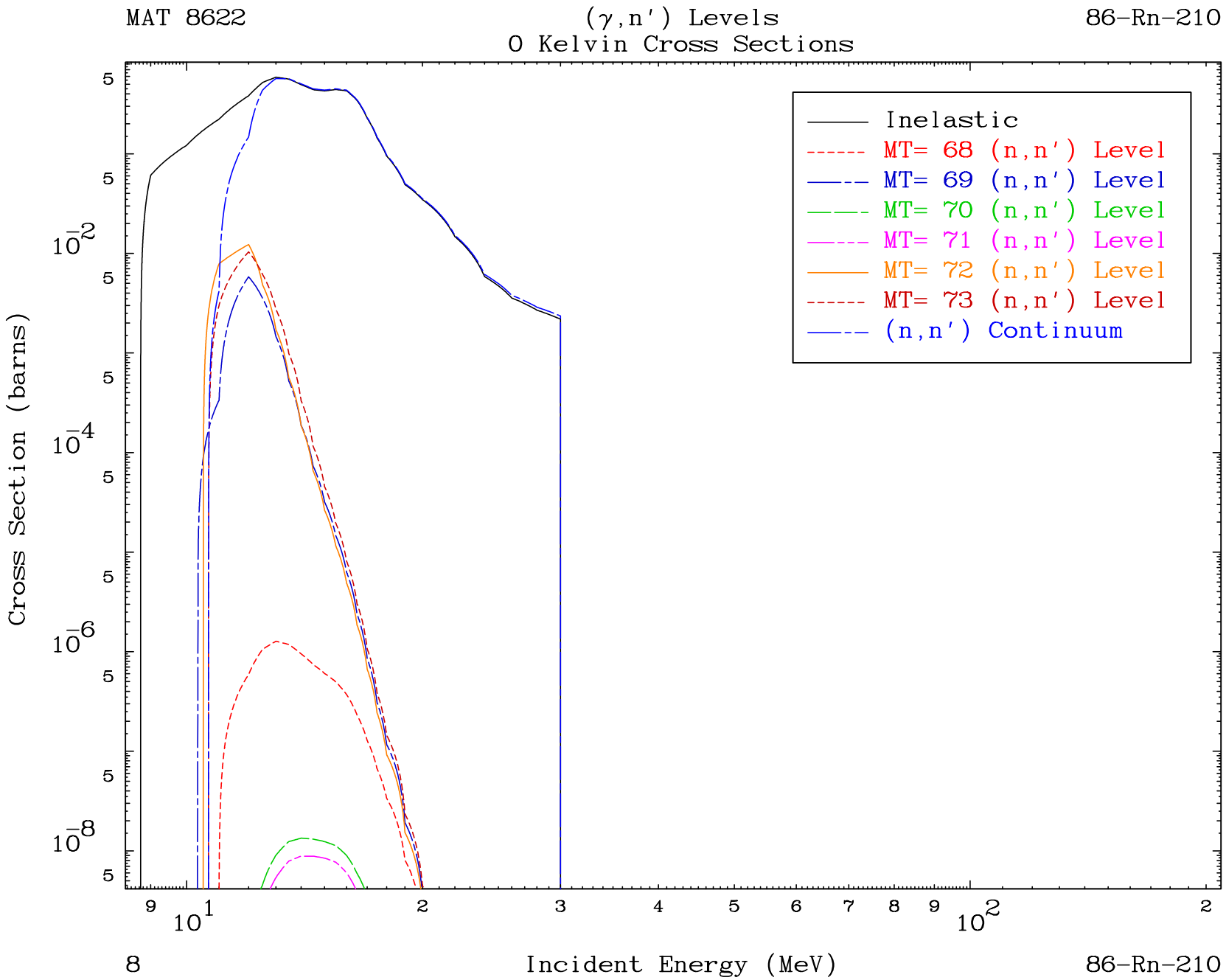

MAT 8622
Photon Neutron Absorption
0 Kelvin Cross Sections
86-Rn-210
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
3
86-Rn-210

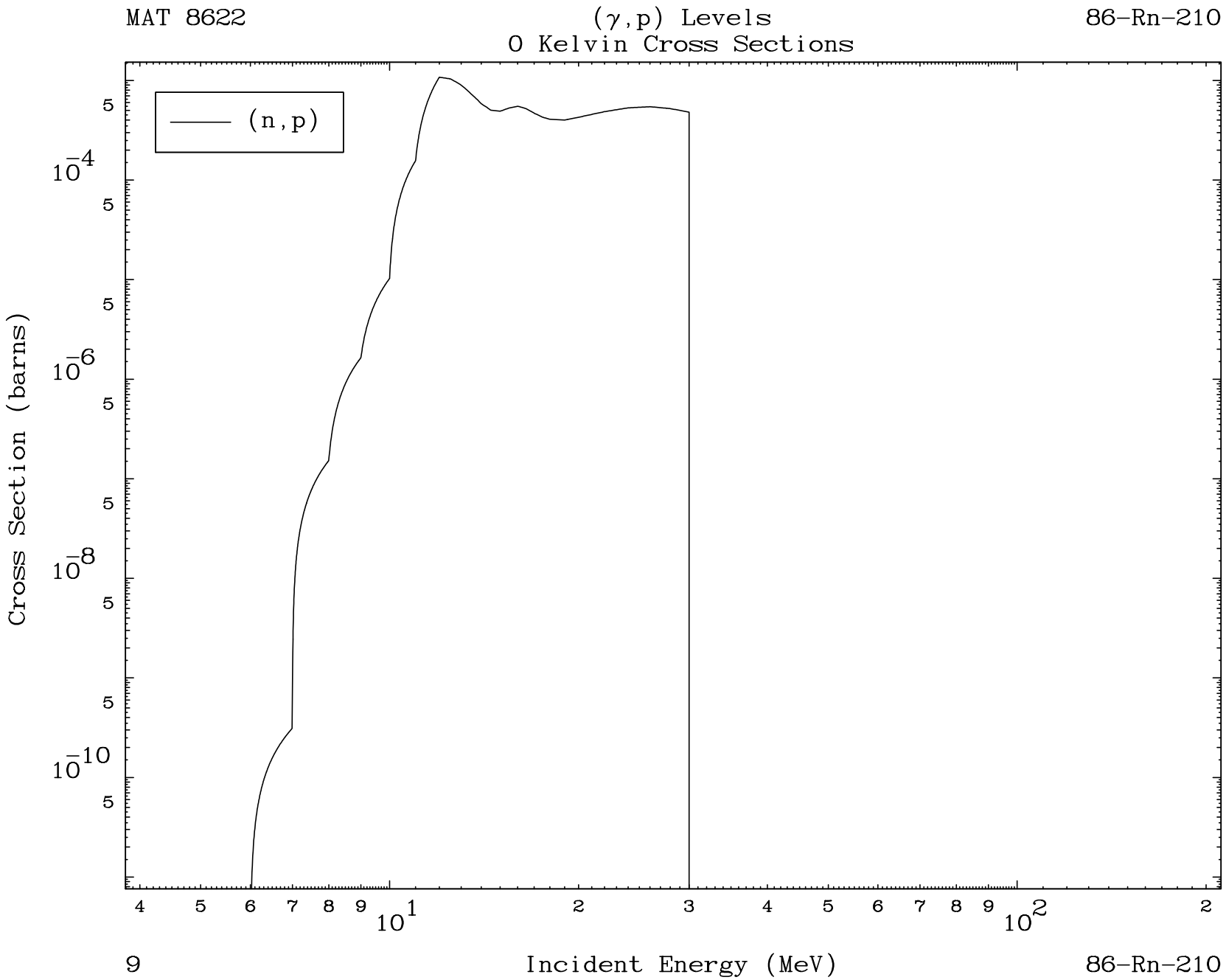

MAT 8622
Photon Charged Particle
0 Kelvin Cross Sections
86-Rn-210
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
4
86-Rn-210

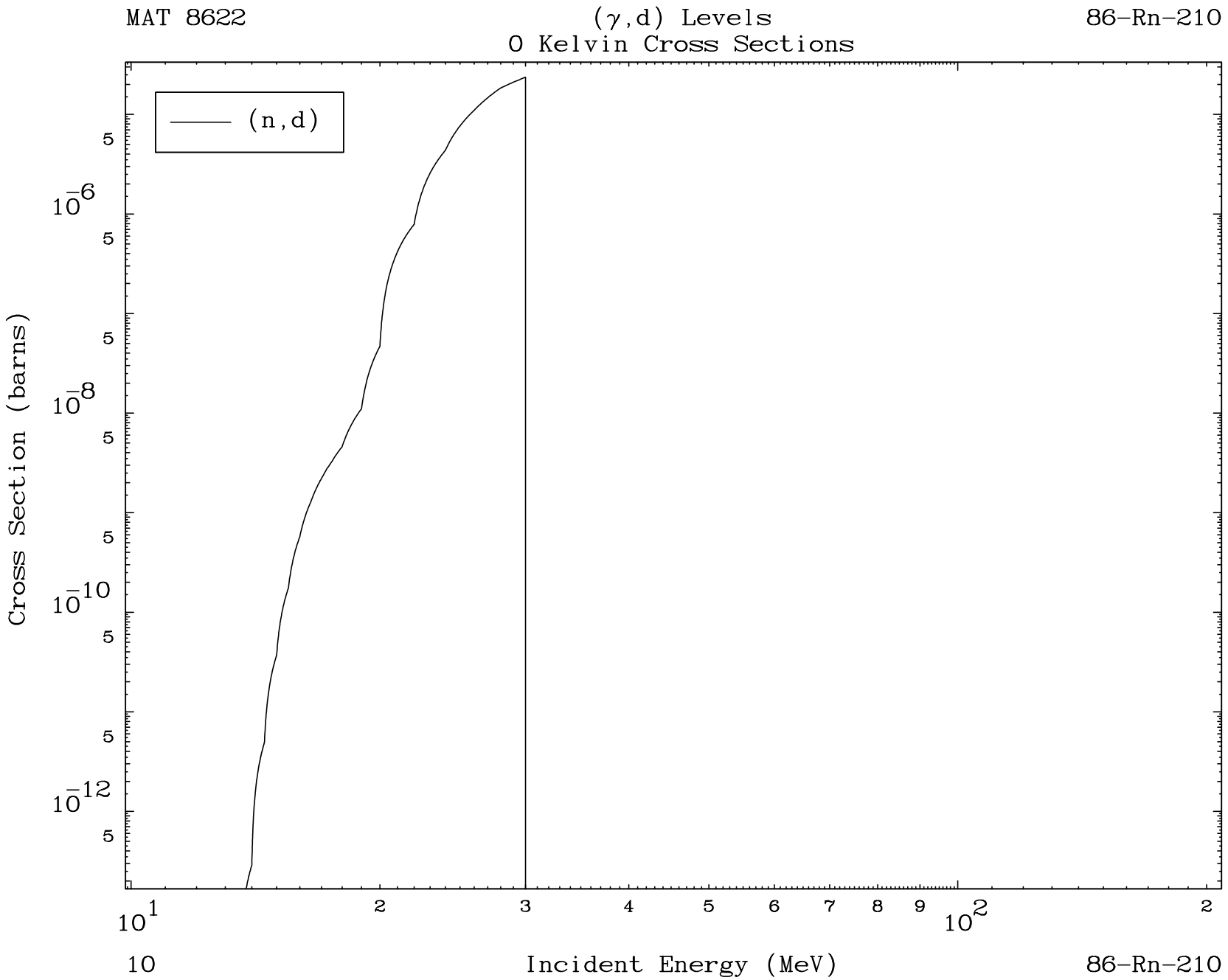

MAT 8622
Photon Charged Particle
0 Kelvin Cross Sections
86-Rn-210
(n,n') α
(n,d)
(n,t)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
86-Rn-210

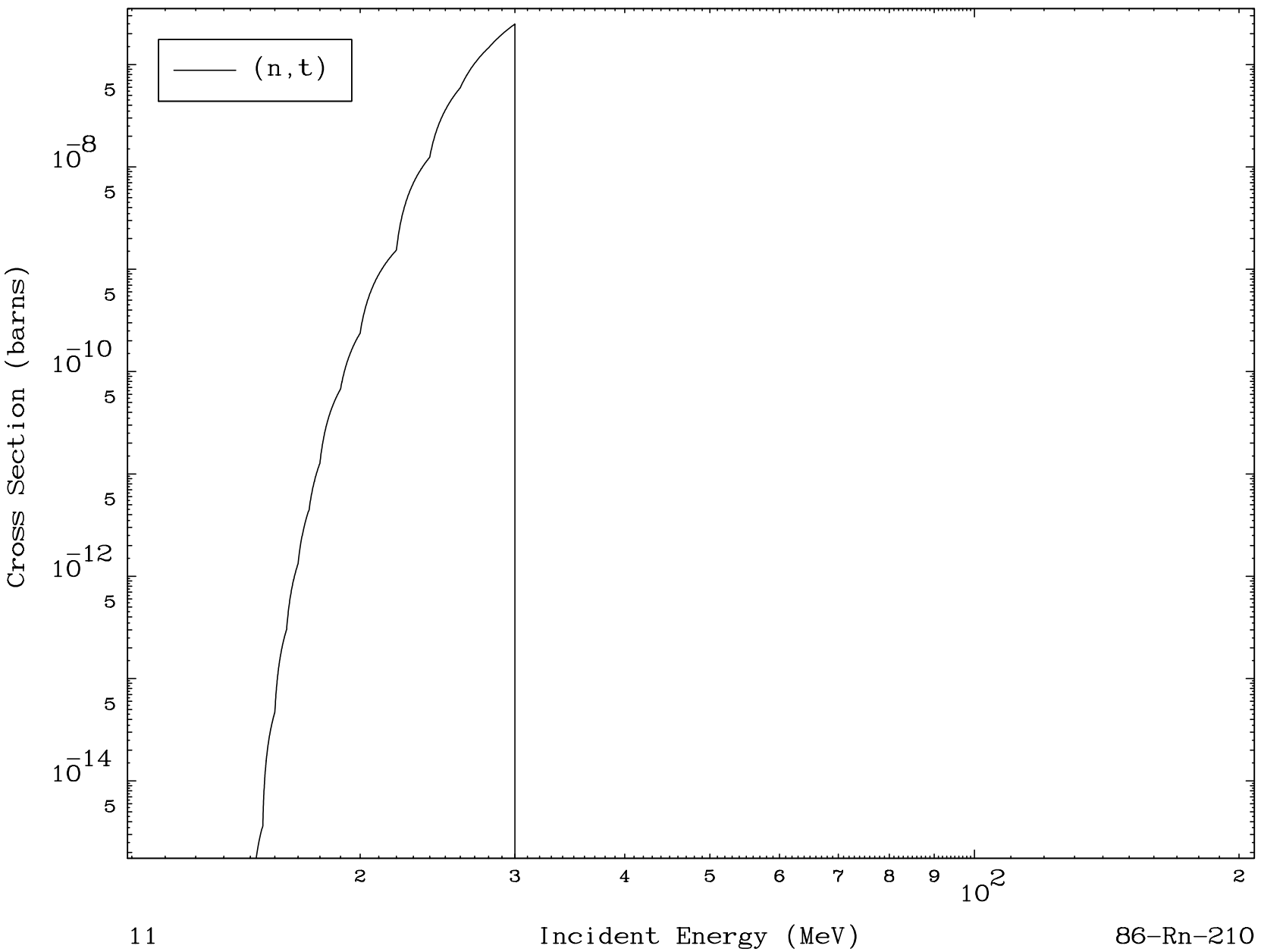

MAT 8622
(γ,n') Levels
0 Kelvin Cross Sections
86-Rn-210
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
6
86-Rn-210

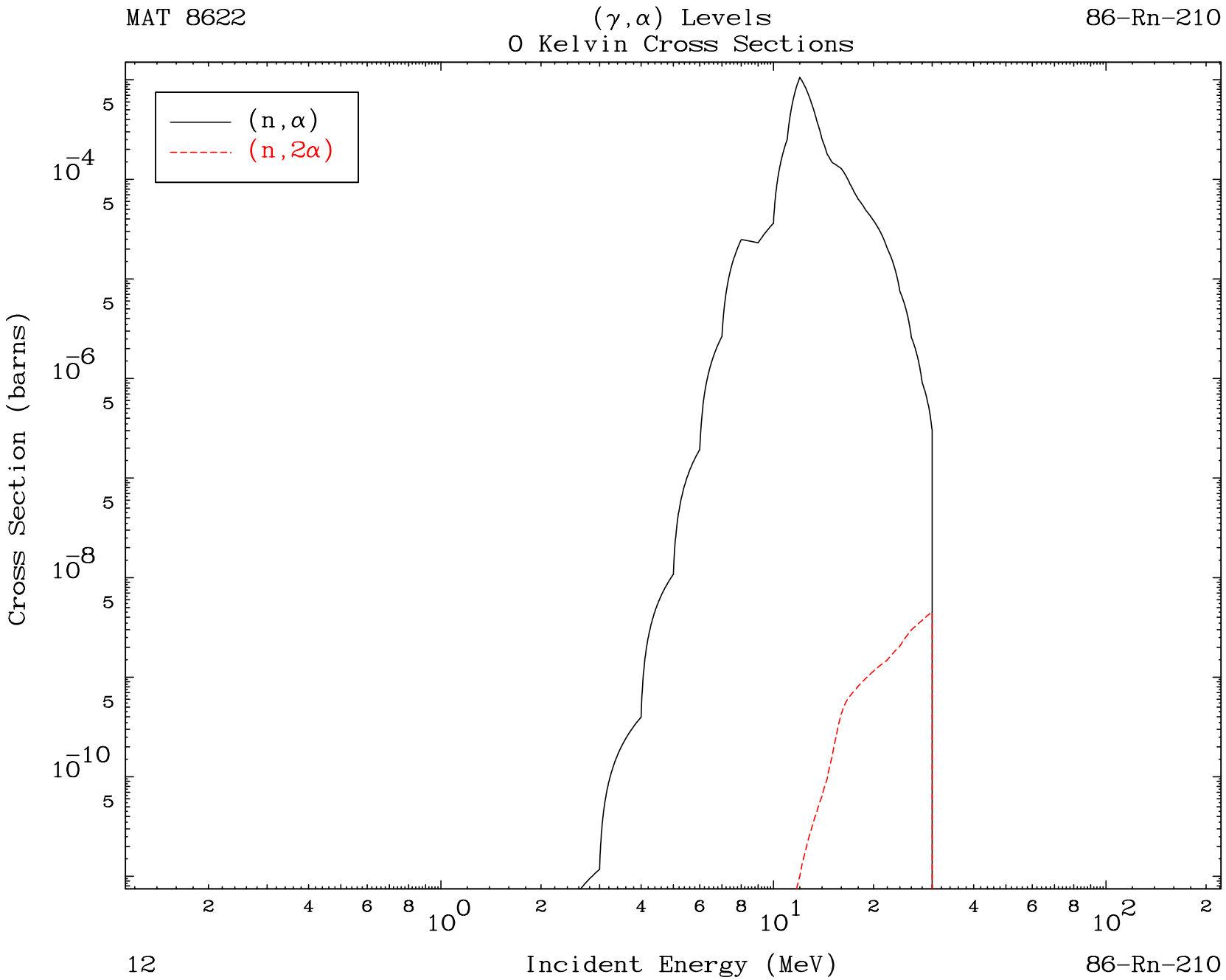

MAT 8622
(γ,n') Levels
0 Kelvin Cross Sections
86-Rn-210
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
86-Rn-210
7

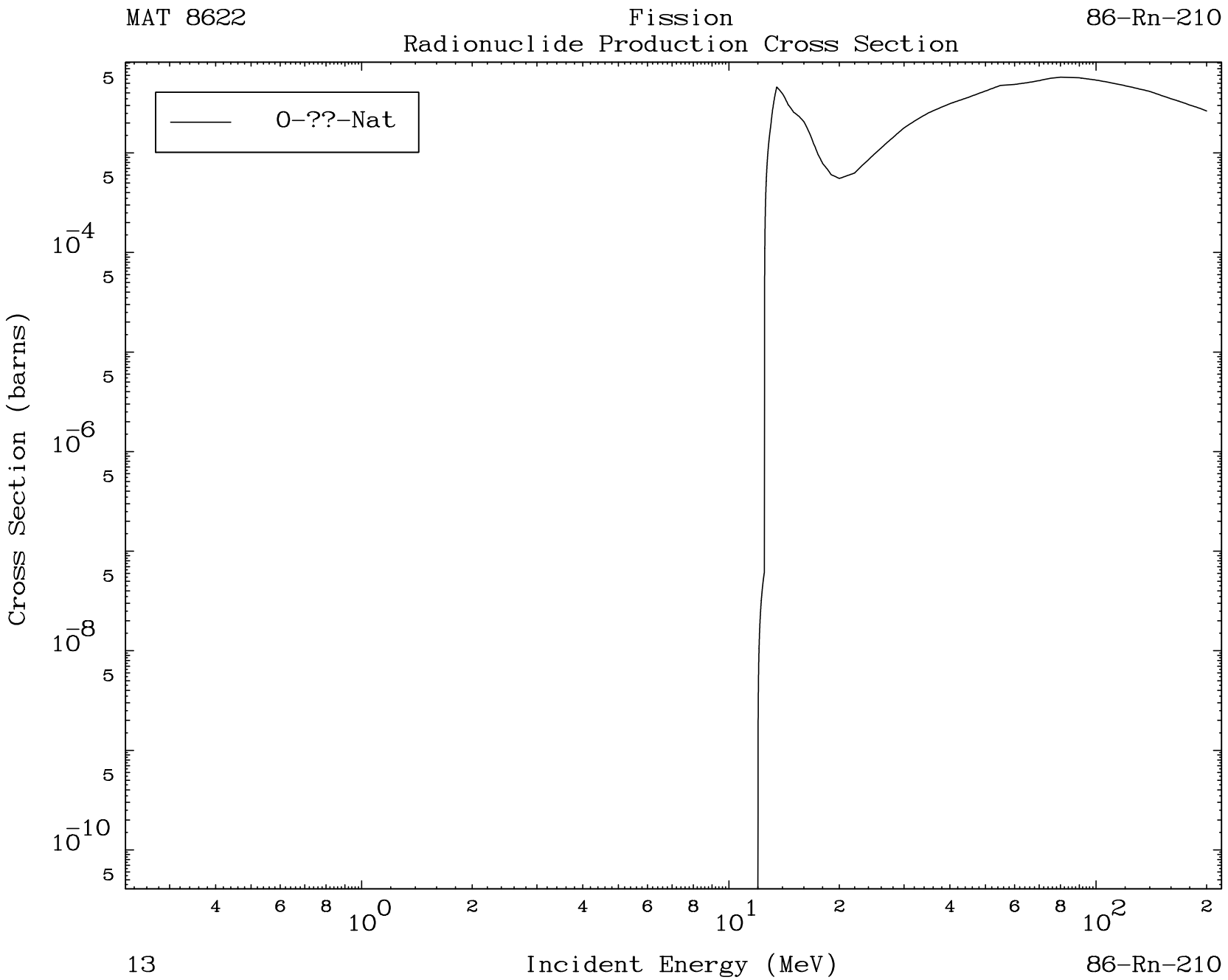

MAT 8622
(γ,n') Levels
0 Kelvin Cross Sections
86-Rn-210
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
(n,n') Continuum
8
86-Rn-210

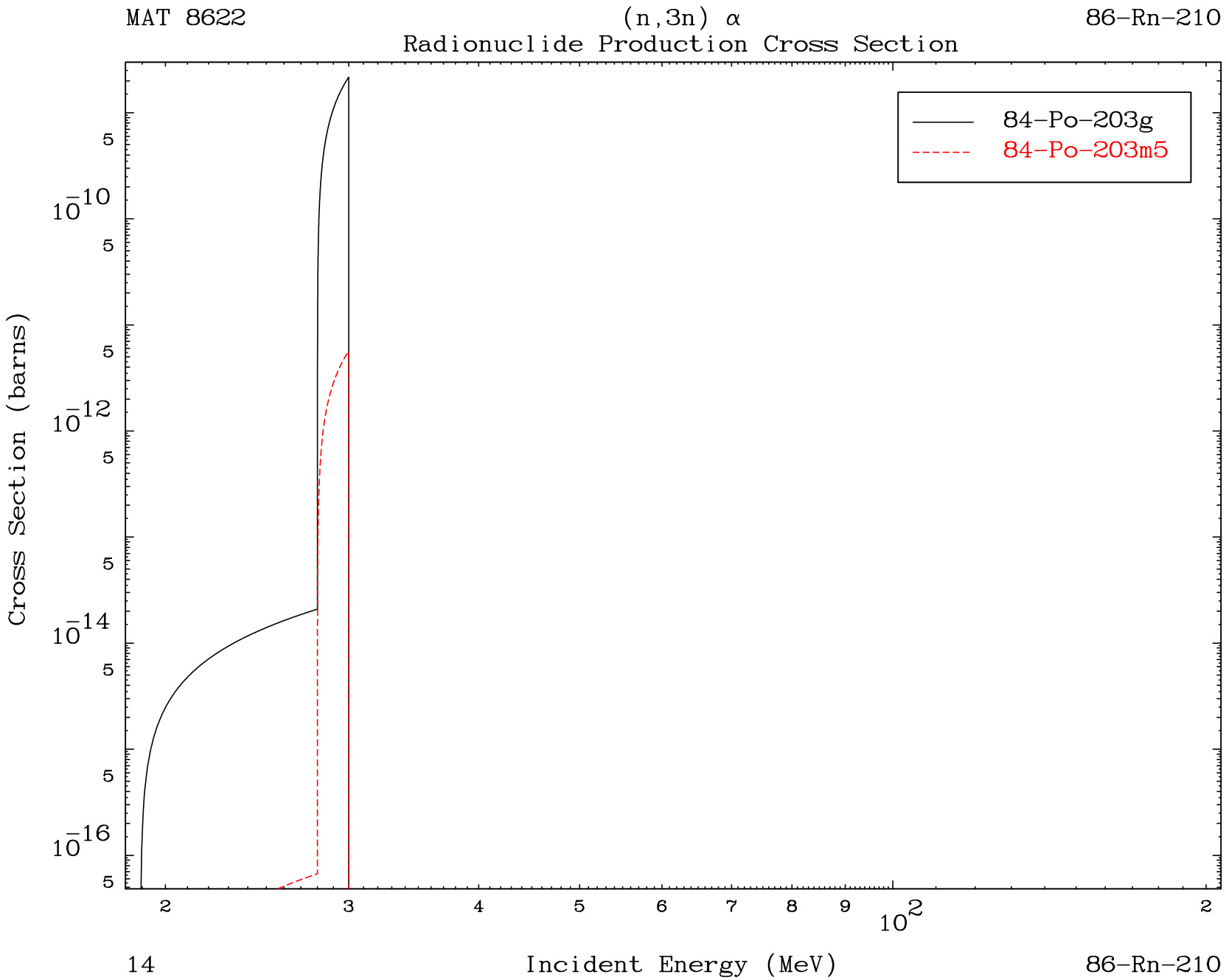

MAT 8622
(γ,p) Levels
86-Rn-210
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
9
86-Rn-210

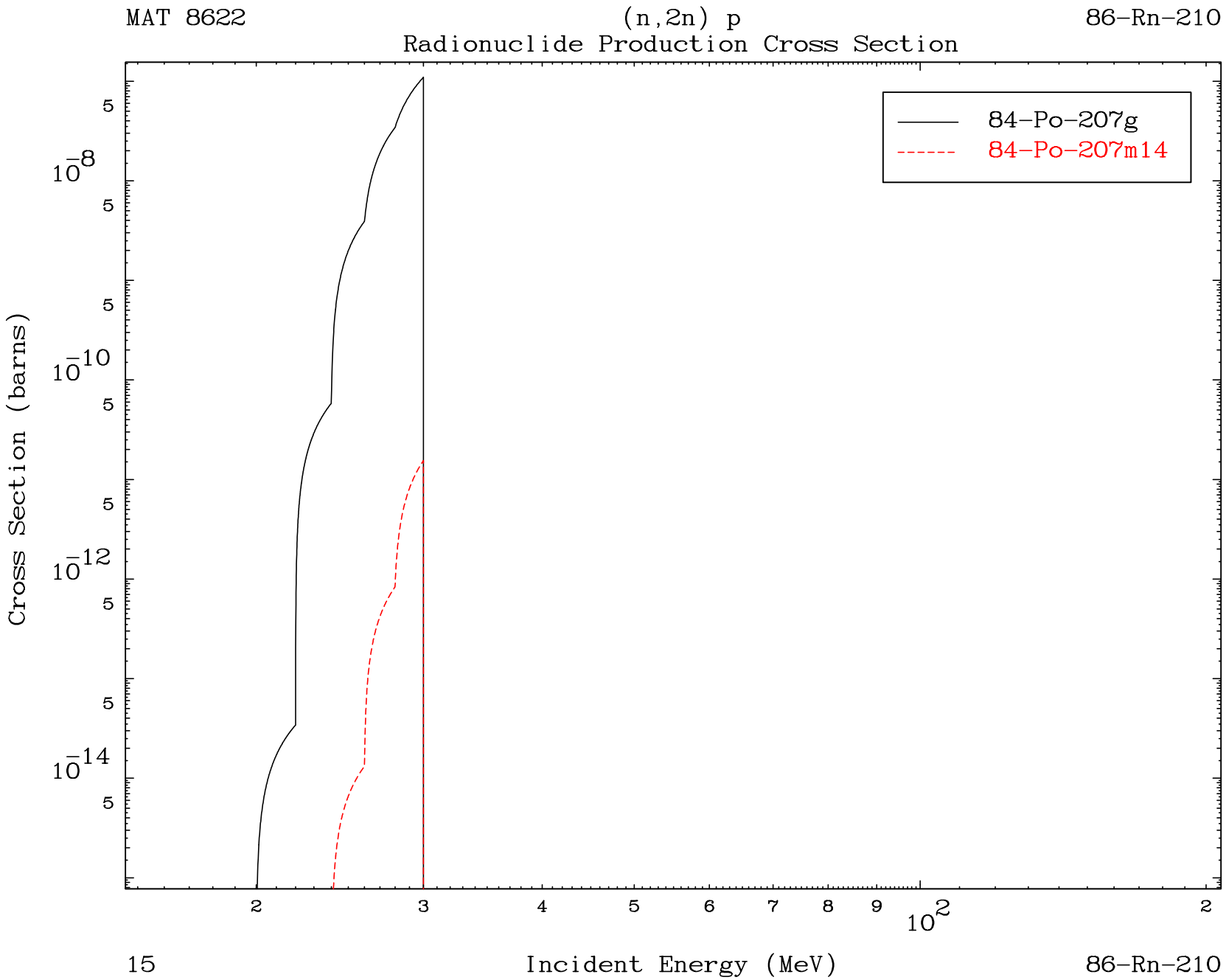

MAT 8622
(γ,d) Levels
86-Rn-210
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^1
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
86-Rn-210

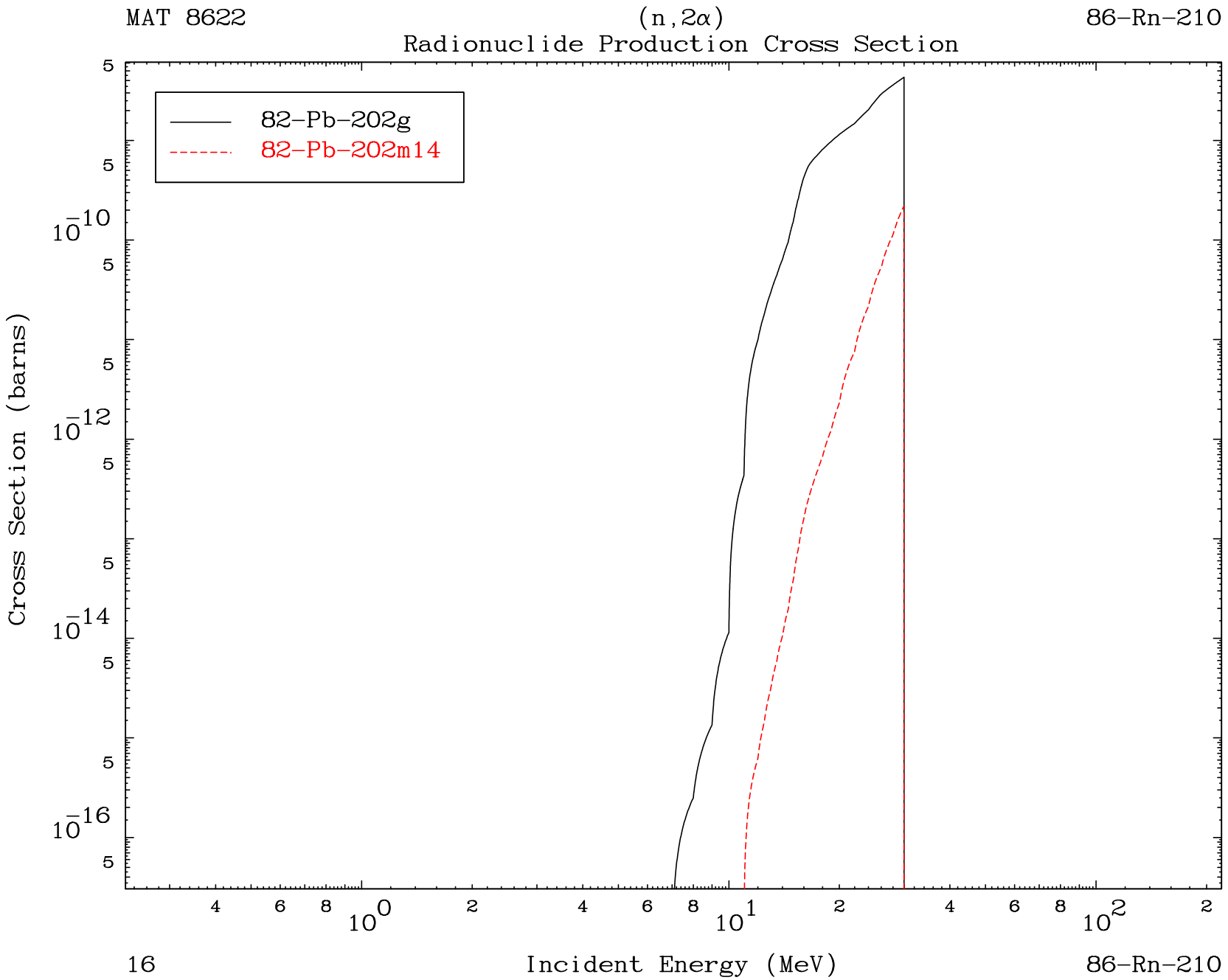

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

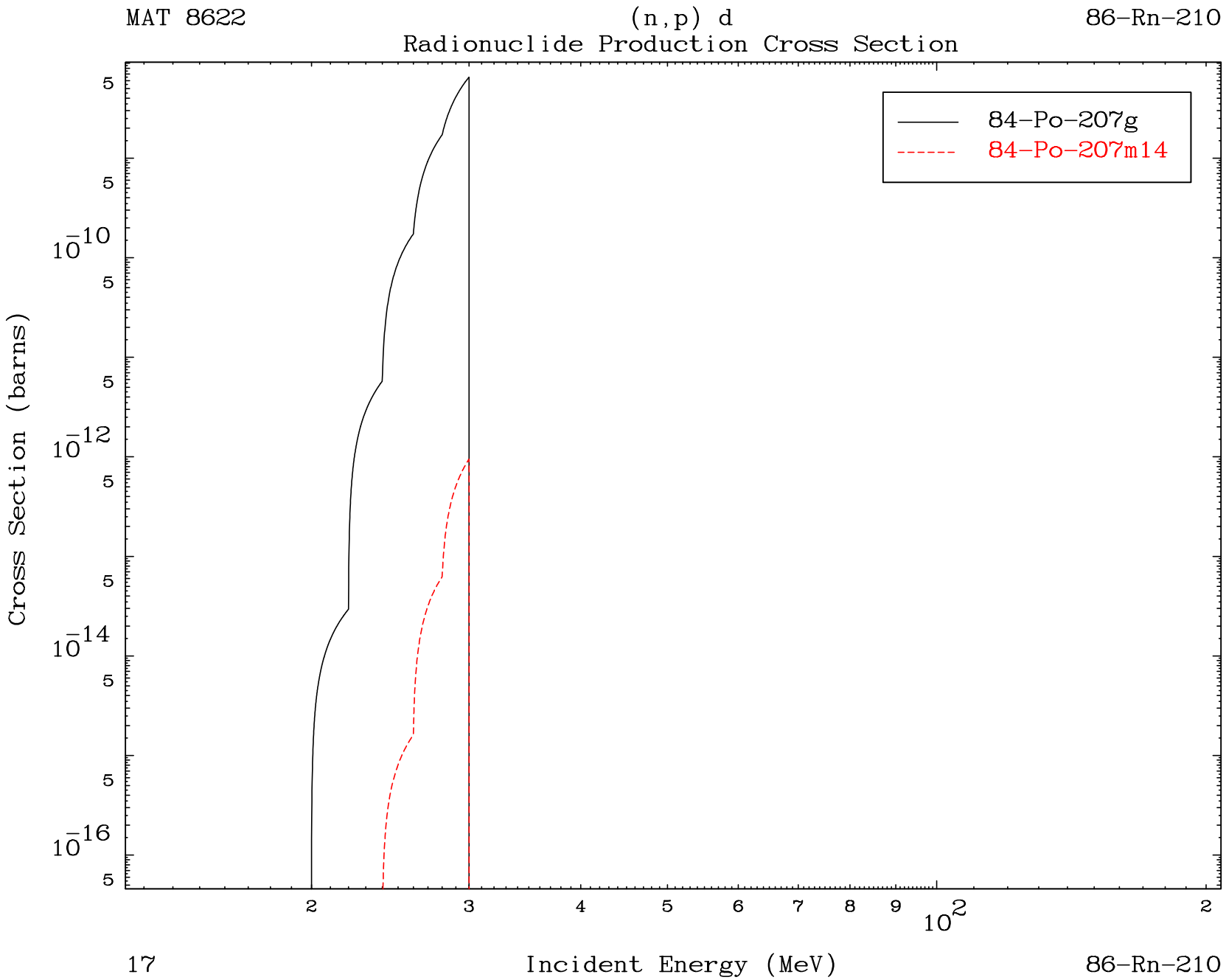

MAT 8622
(γ,α) Levels
86-Rn-210
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
12
86-Rn-210


MAT 8622
Fission
86-Rn-210
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
13
86-Rn-210


MAT 8622
(n,3n) α
86-Rn-210
Radionuclide Production Cross Section
84-Po-203g
84-Po-203m5
Cross Section (barns)
10-10
10-12
10-14
10-16
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
86-Rn-210


MAT 8622
(n,2n) p
86-Rn-210
Radionuclide Production Cross Section
84-Po-207g
84-Po-207m14
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
86-Rn-210


MAT 8622
(n,2α)
86-Rn-210
Radionuclide Production Cross Section
82-Pb-202g
82-Pb-202m14
Cross Section (barns)
Incident Energy (MeV)
16
86-Rn-210


MAT 8622
(n,p) d
86-Rn-210
Radionuclide Production Cross Section
84-Po-207g
84-Po-207m14
Cross Section (barns)
Incident Energy (MeV)
17
86-Rn-210