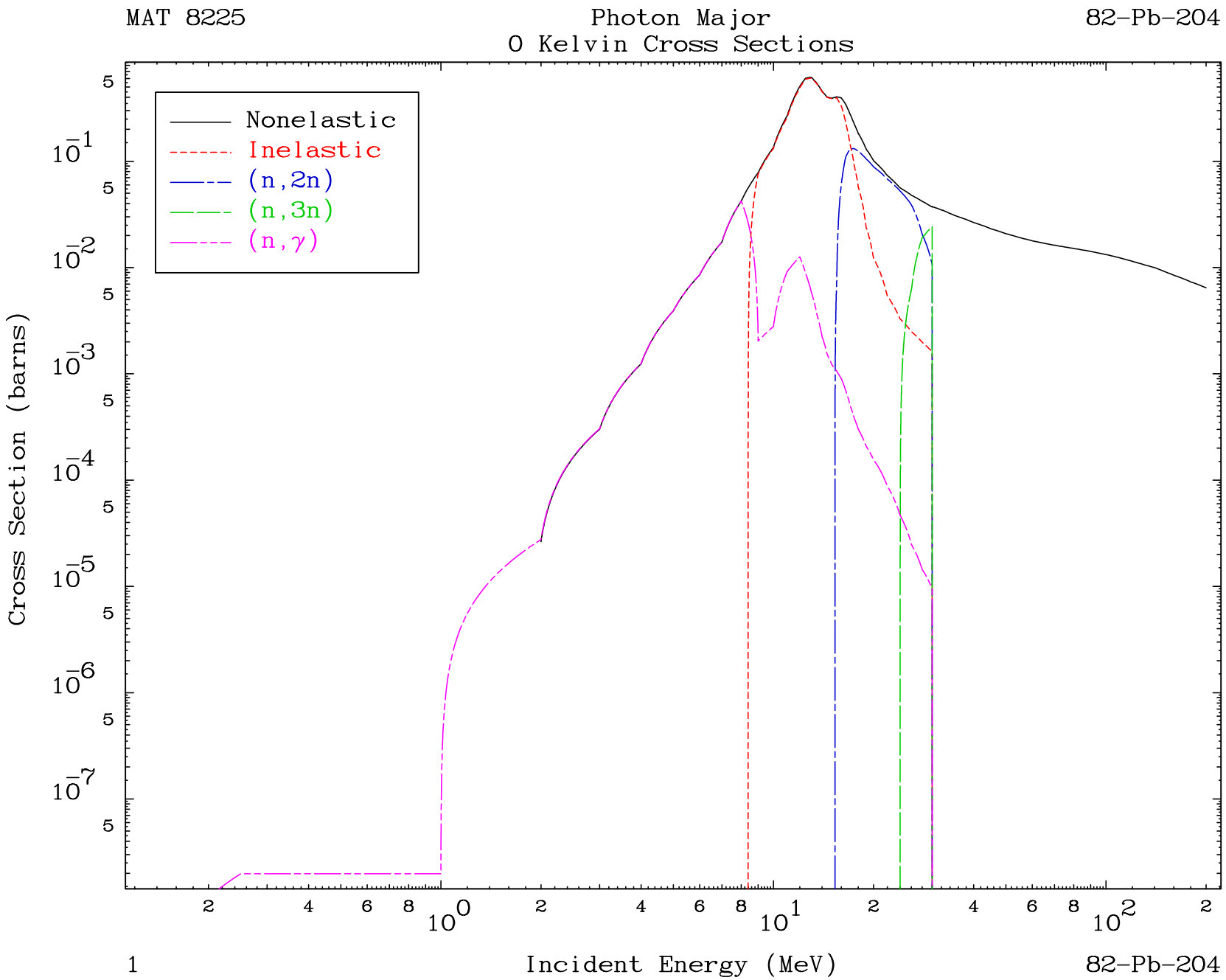
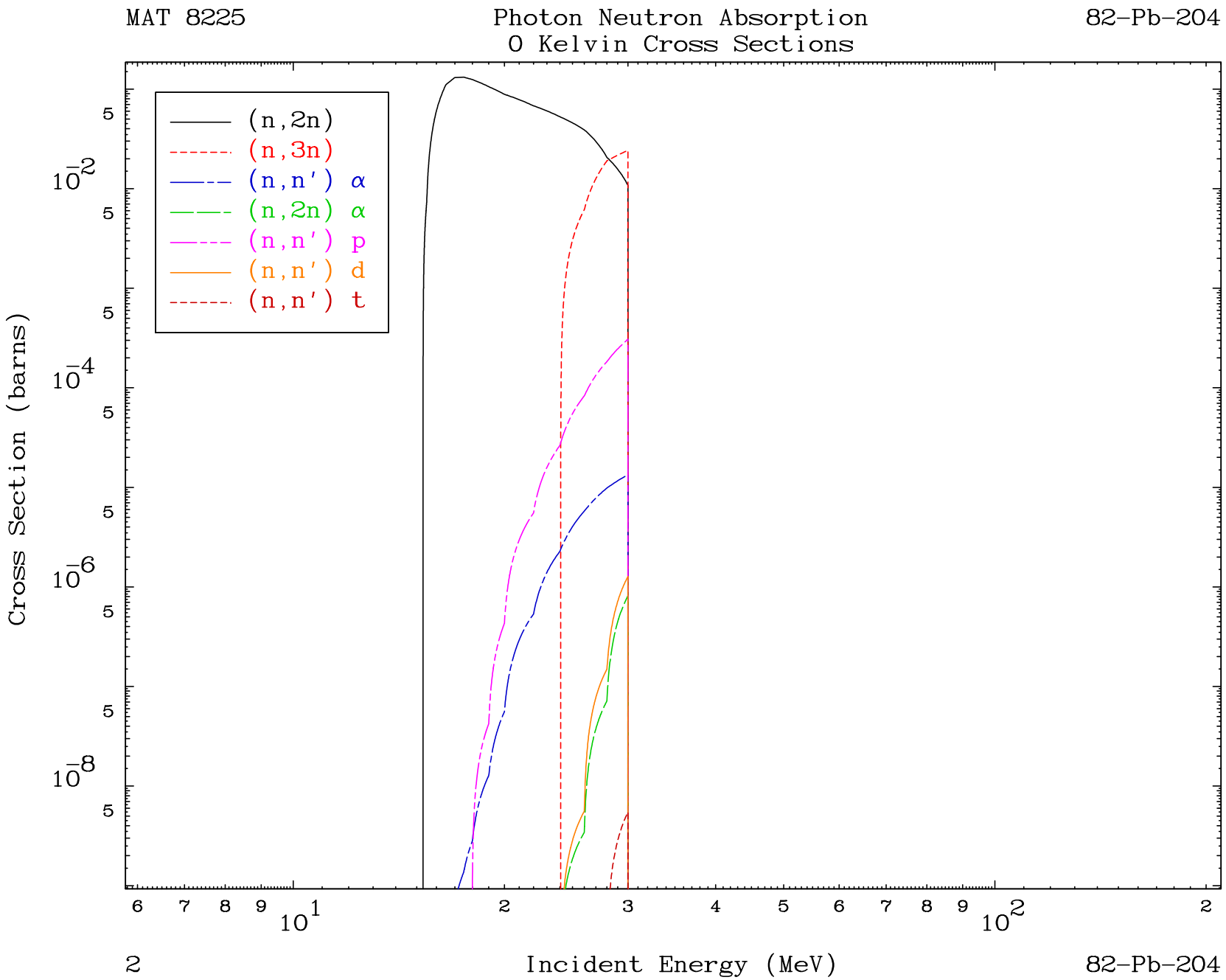
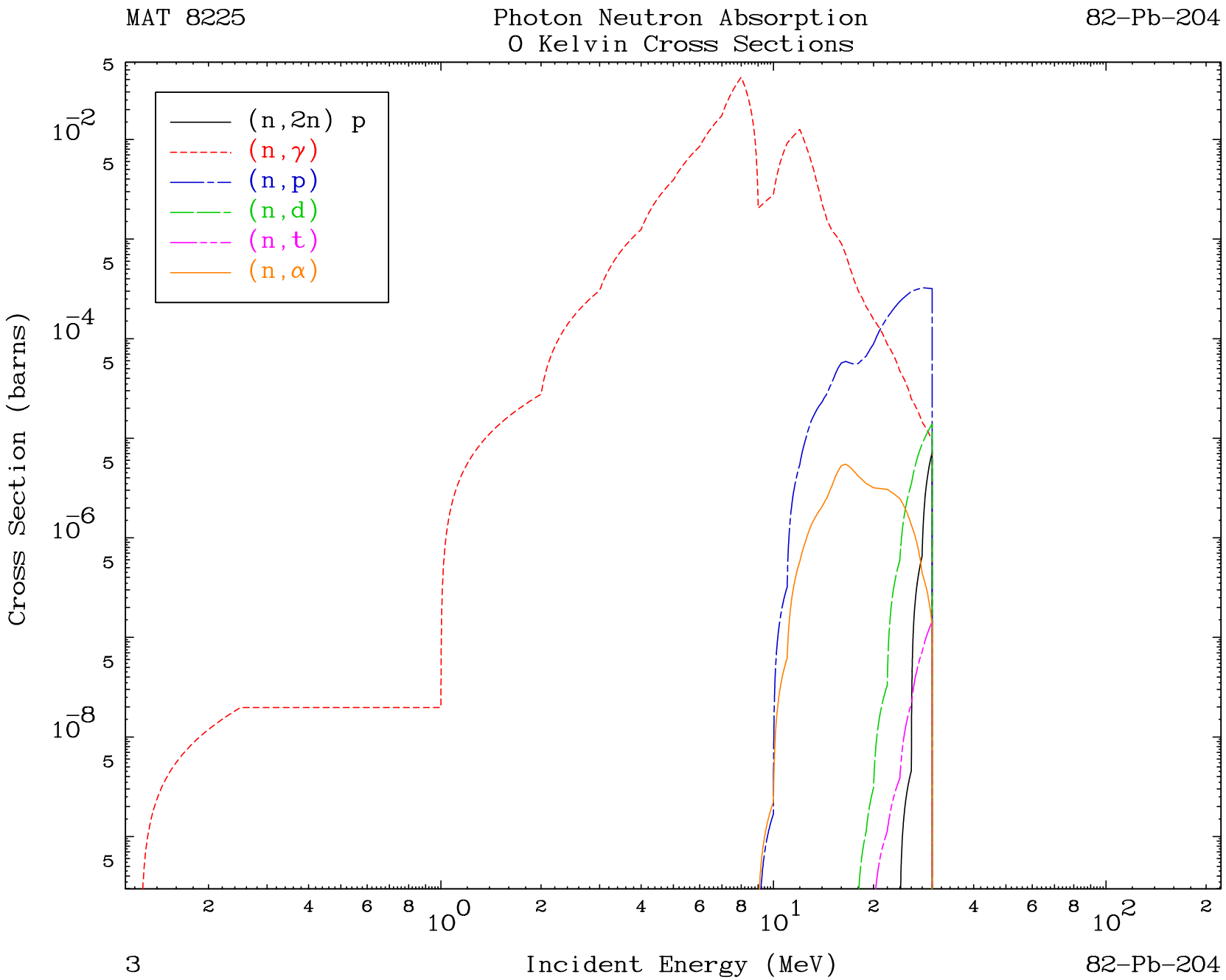
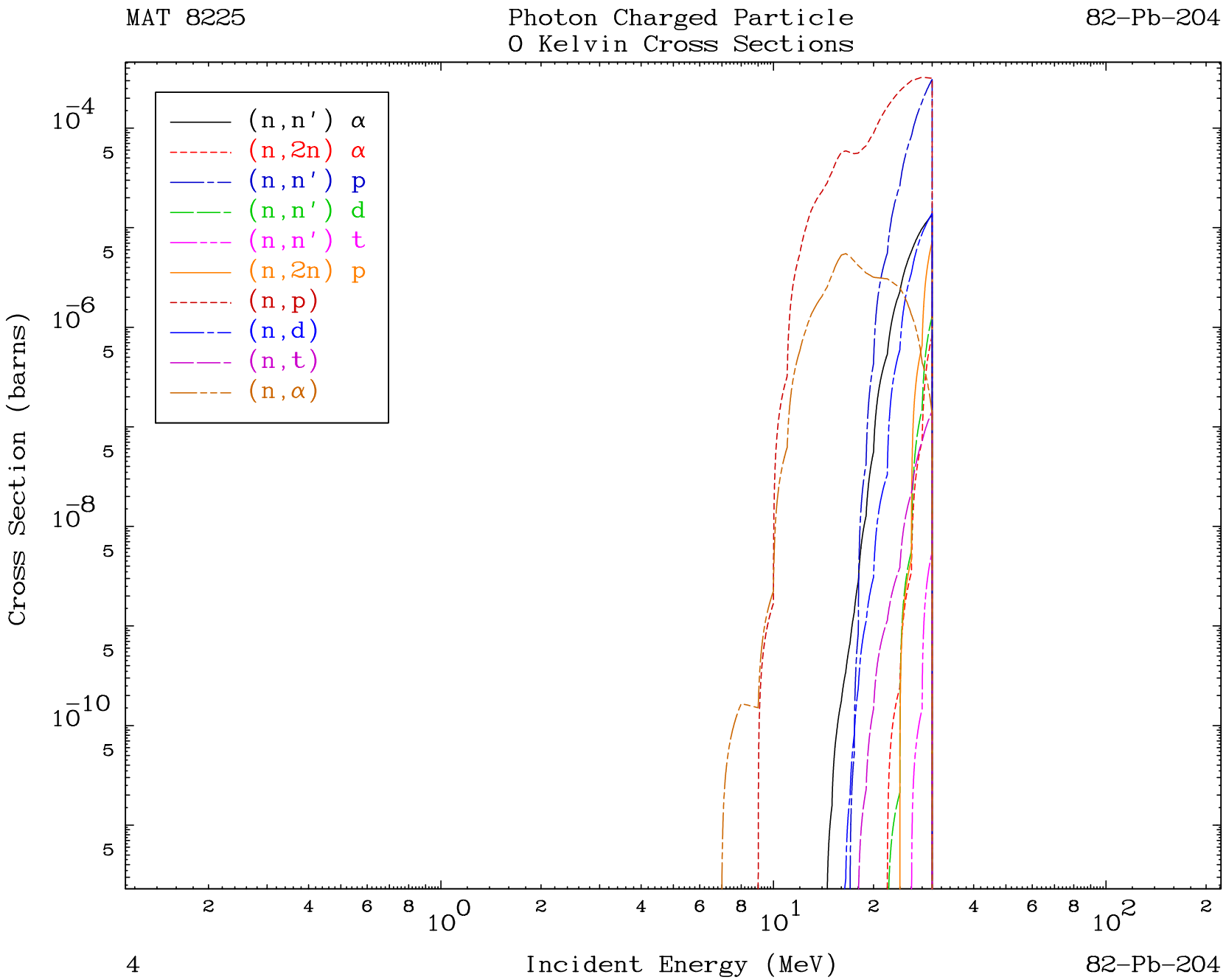
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

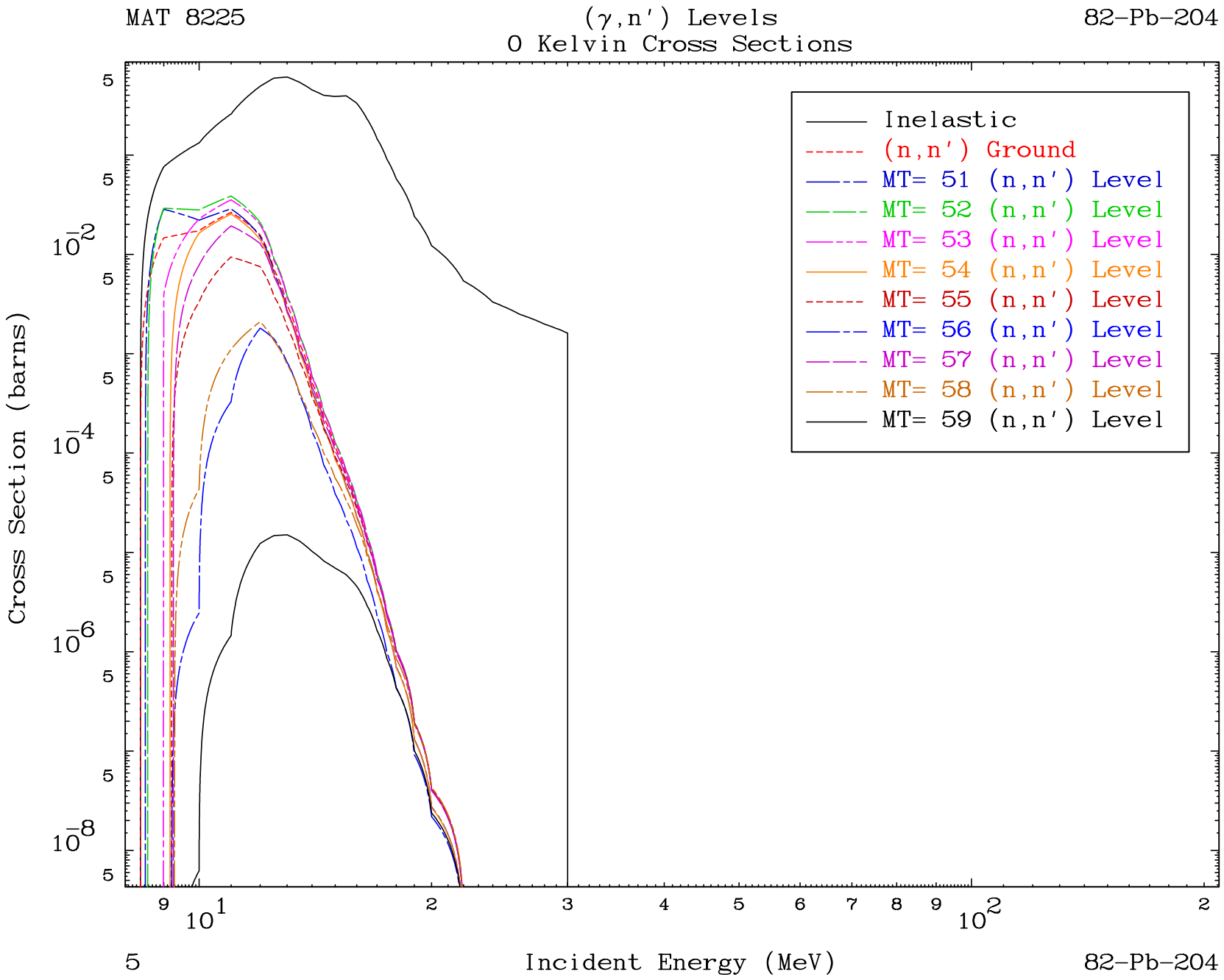
Press Mouse Button to Start

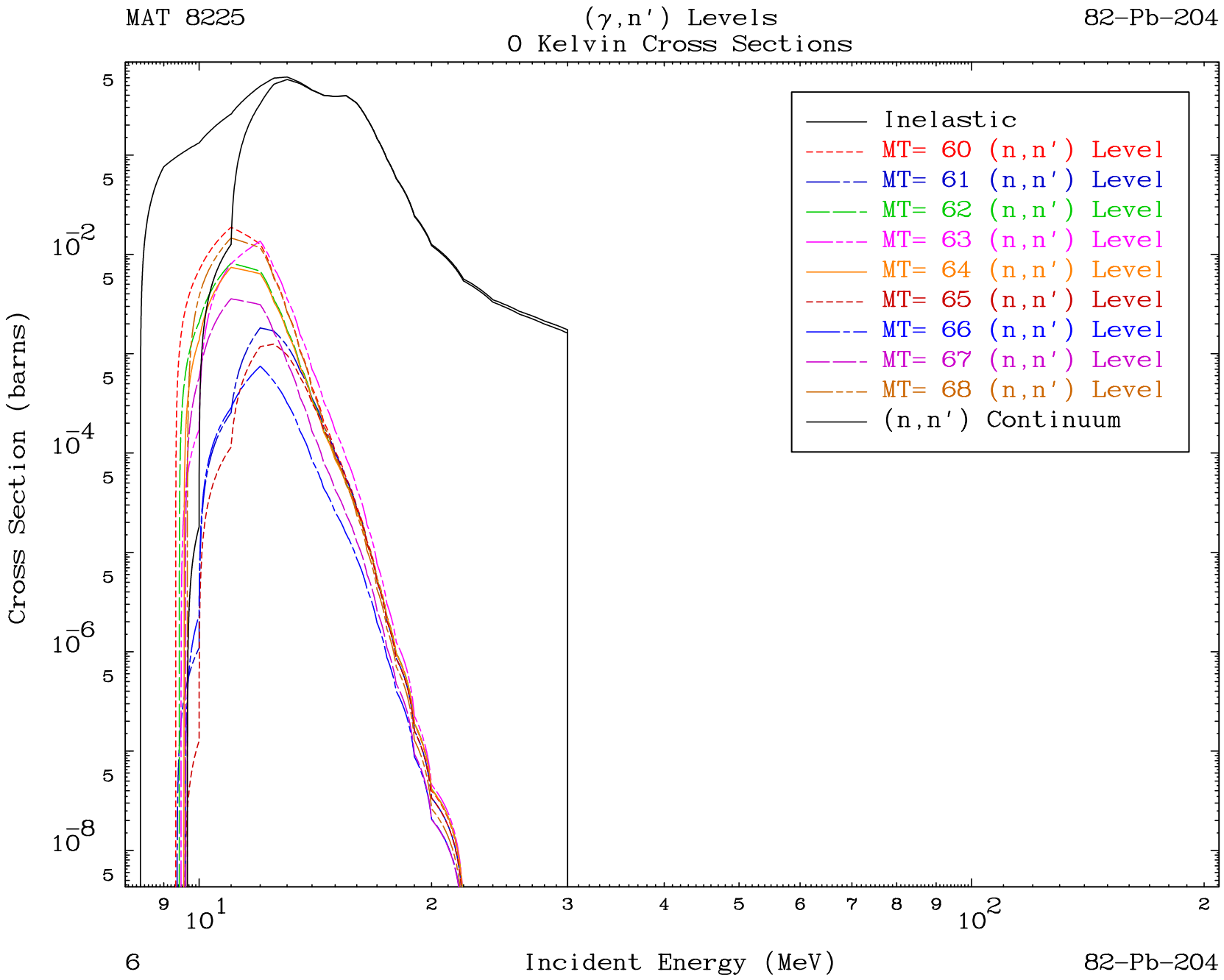

MAT 8225
Photon Major
82-Pb-204
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
82-Pb-204

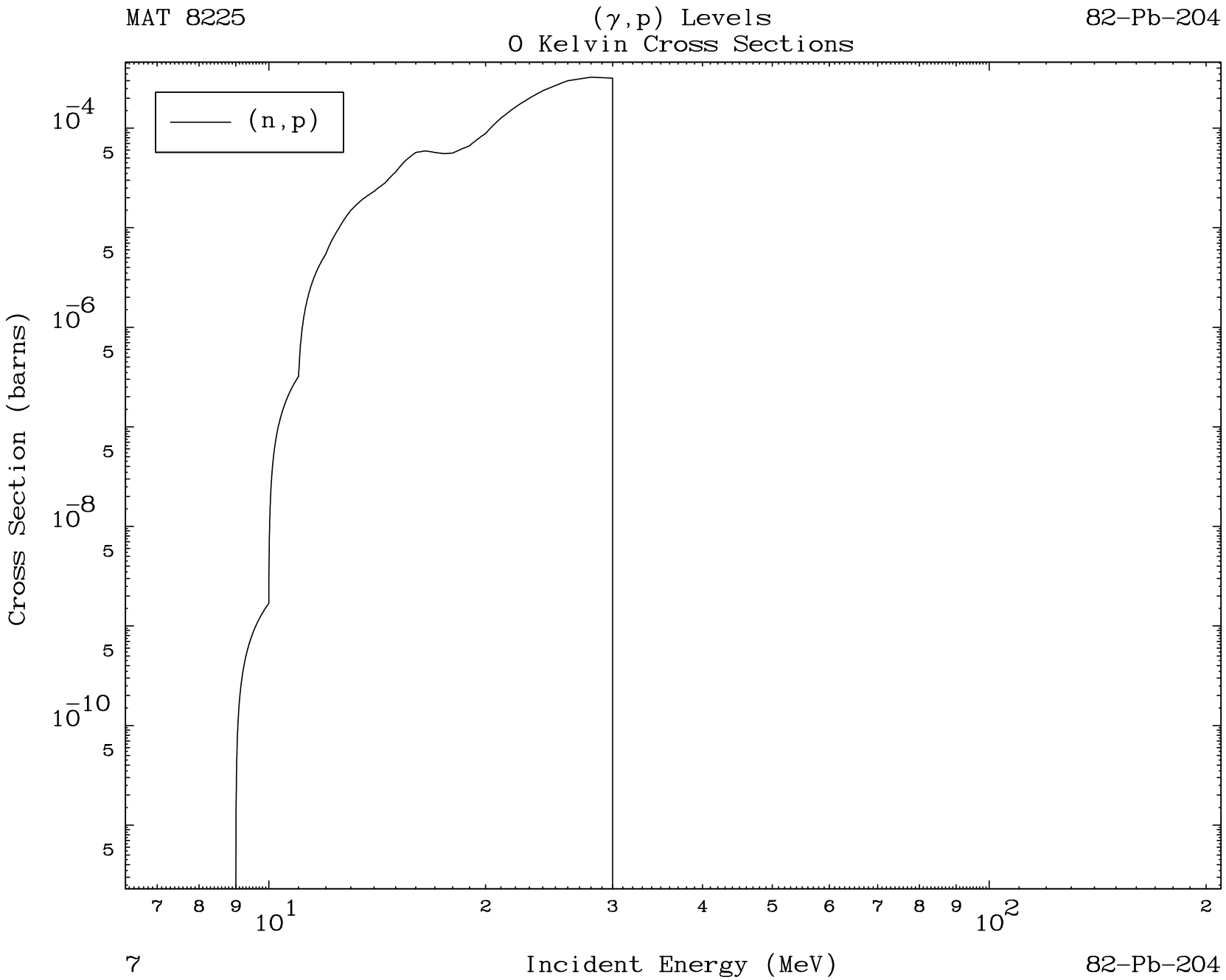

MAT 8225
Photon Neutron Absorption
0 Kelvin Cross Sections
82-Pb-204
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
82-Pb-204

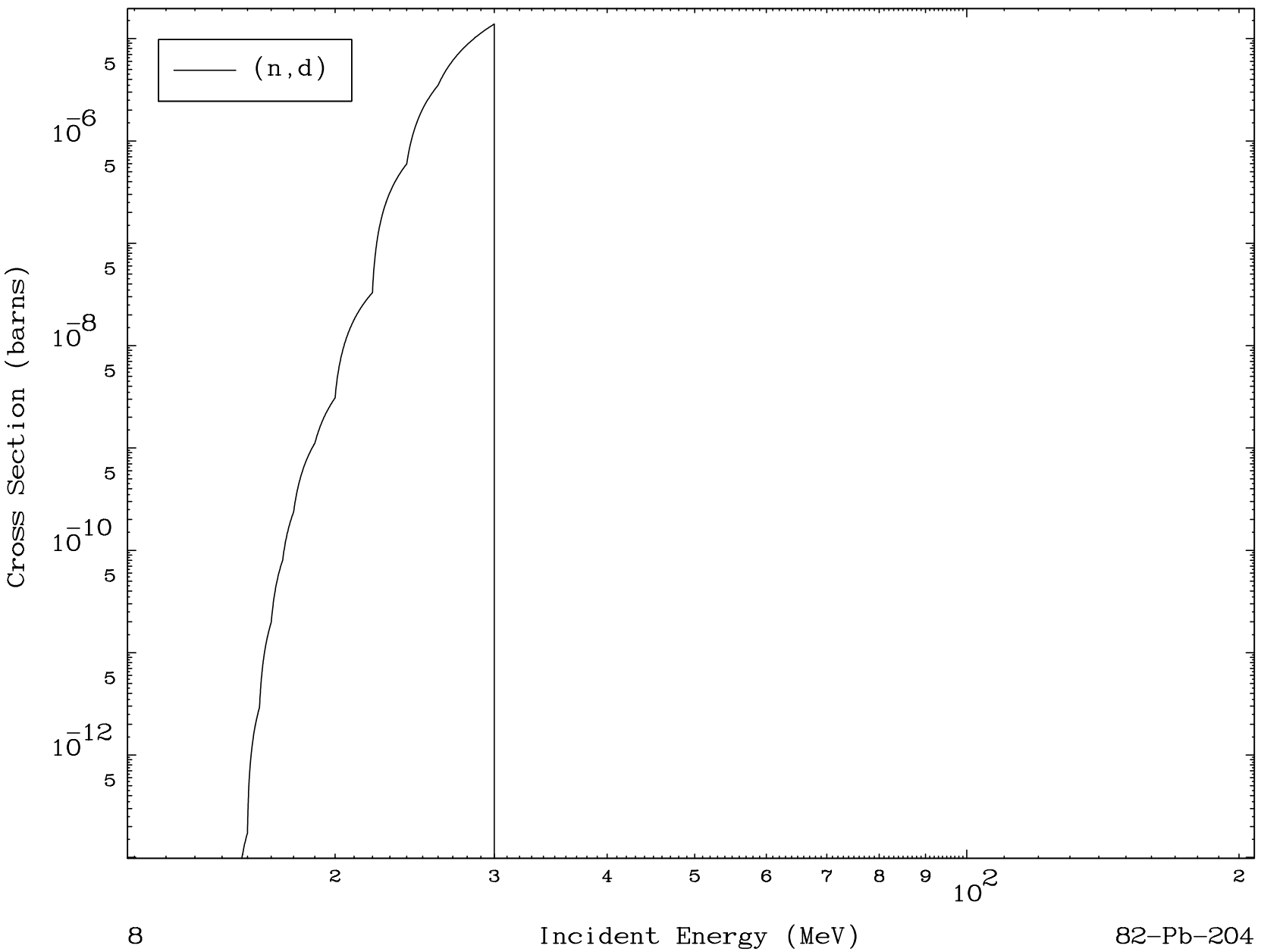

MAT 8225
Photon Neutron Absorption
0 Kelvin Cross Sections
82-Pb-204
(n,2n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
3
82-Pb-204

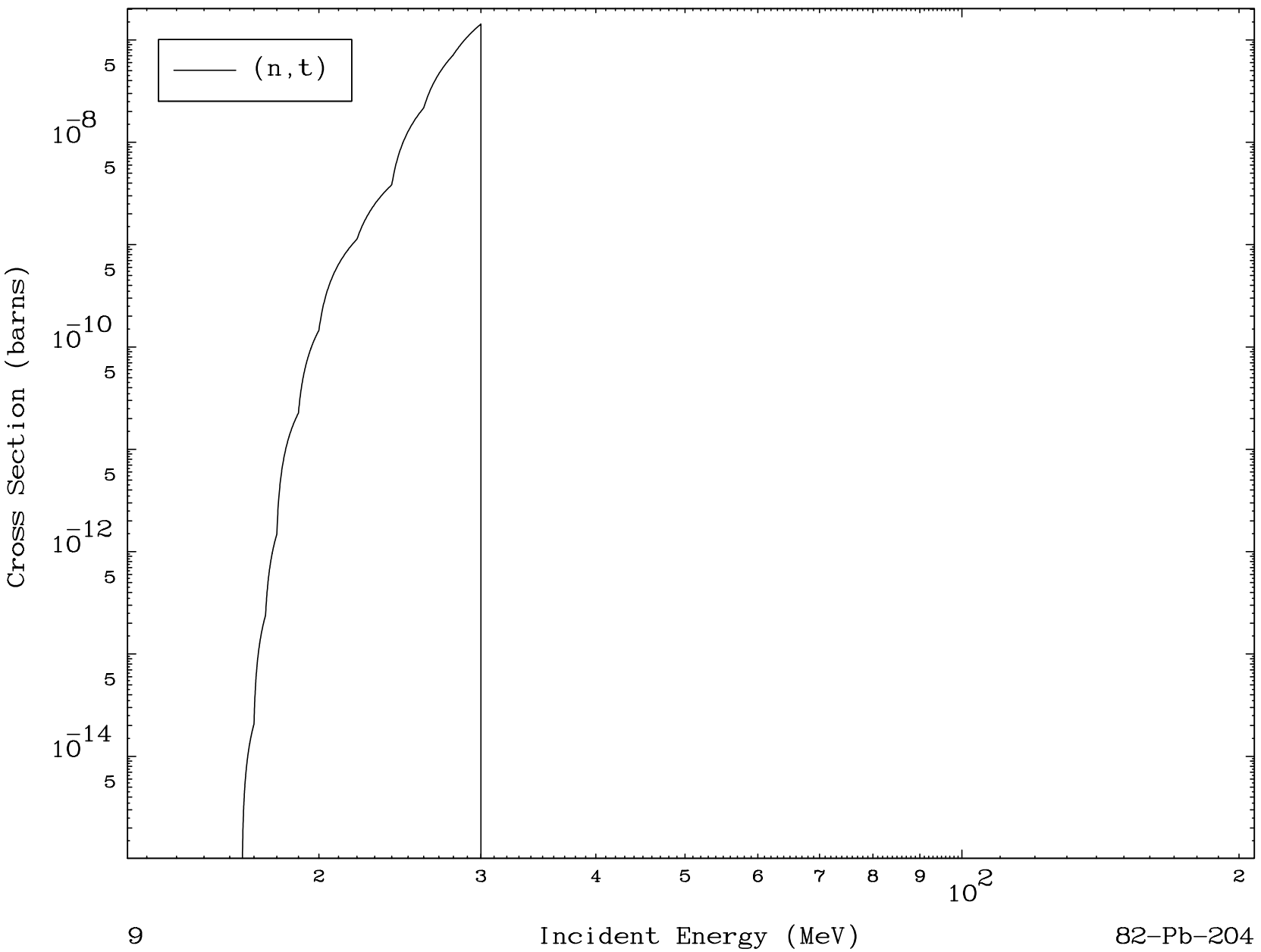

MAT 8225
Photon Charged Particle
0 Kelvin Cross Sections
82-Pb-204
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,p)
(n,d)
(n,t)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
4
82-Pb-204

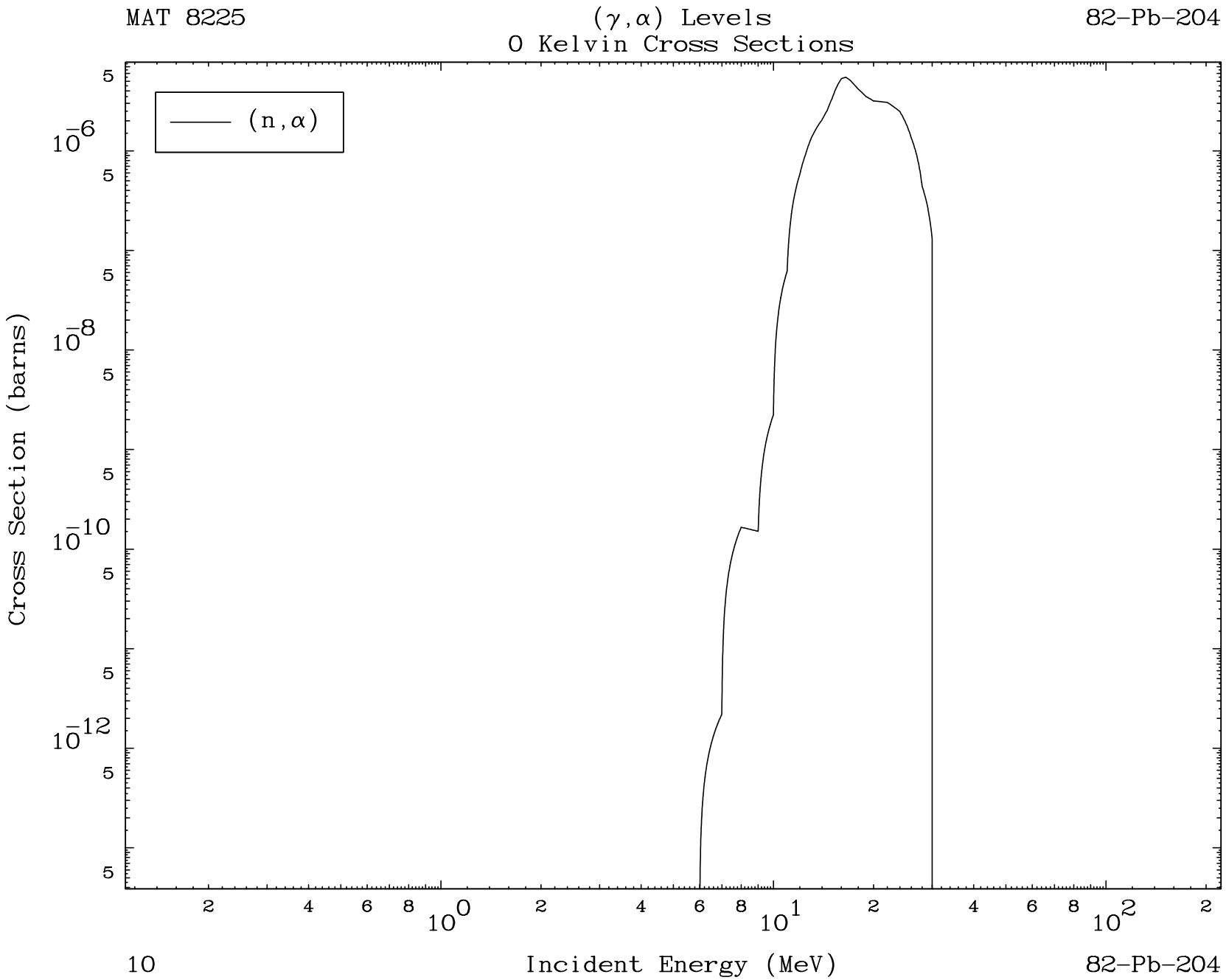

MAT 8225
(γ,n') Levels
0 Kelvin Cross Sections
82-Pb-204
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
82-Pb-204

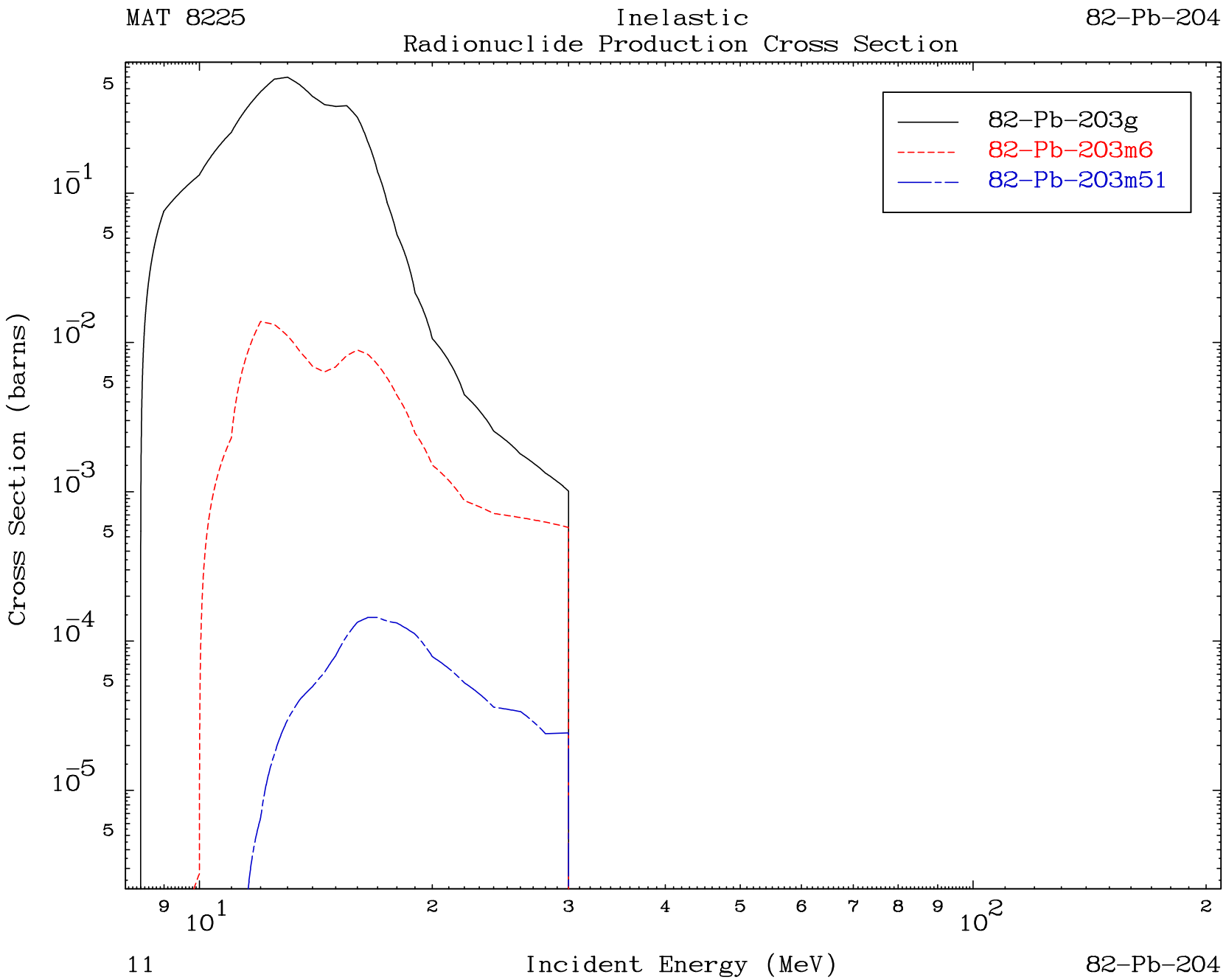

MAT 8225
(γ,n') Levels
0 Kelvin Cross Sections
82-Pb-204
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
(n,n') Continuum
6
82-Pb-204

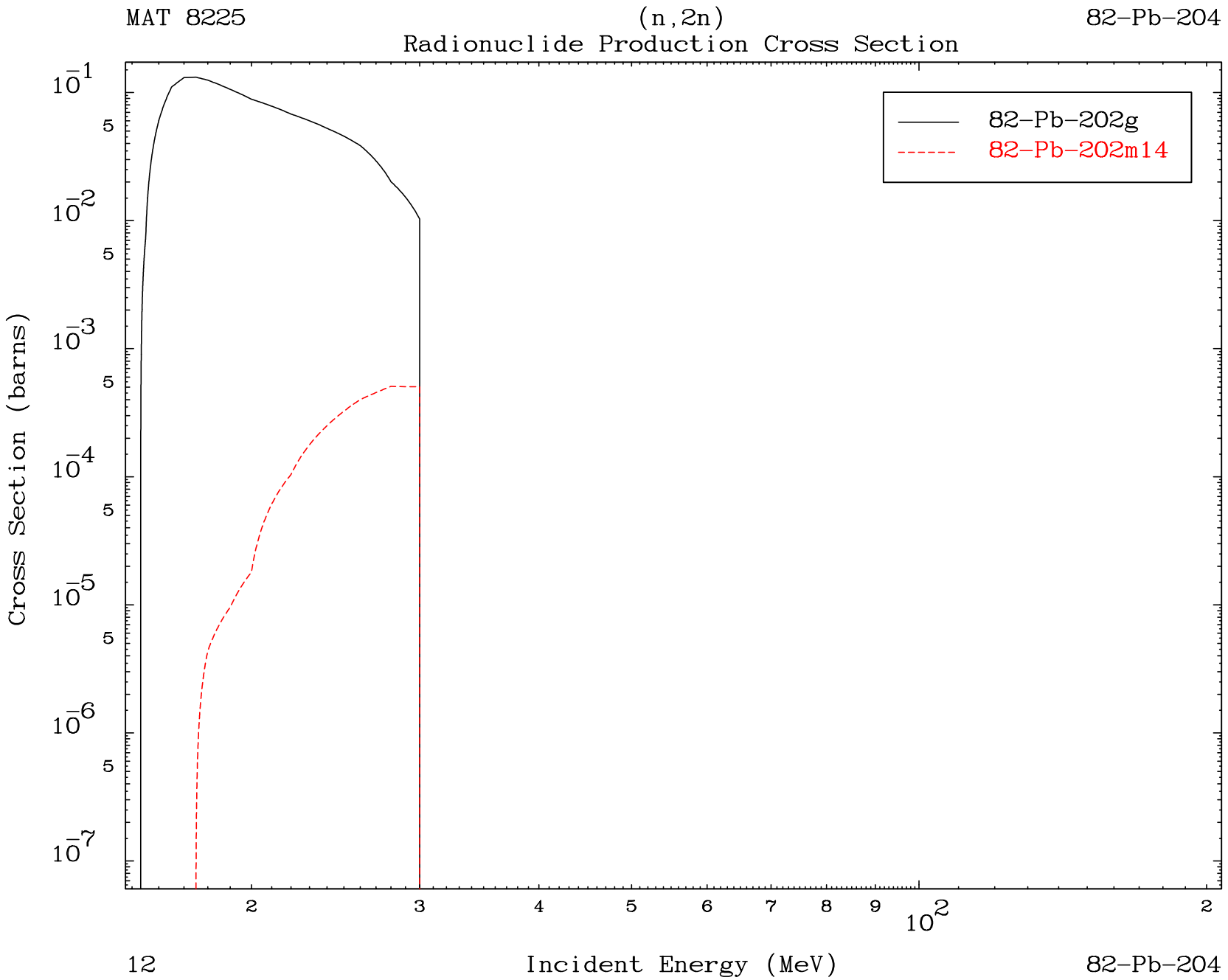

MAT 8225
(γ,p) Levels
82-Pb-204
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
7
82-Pb-204

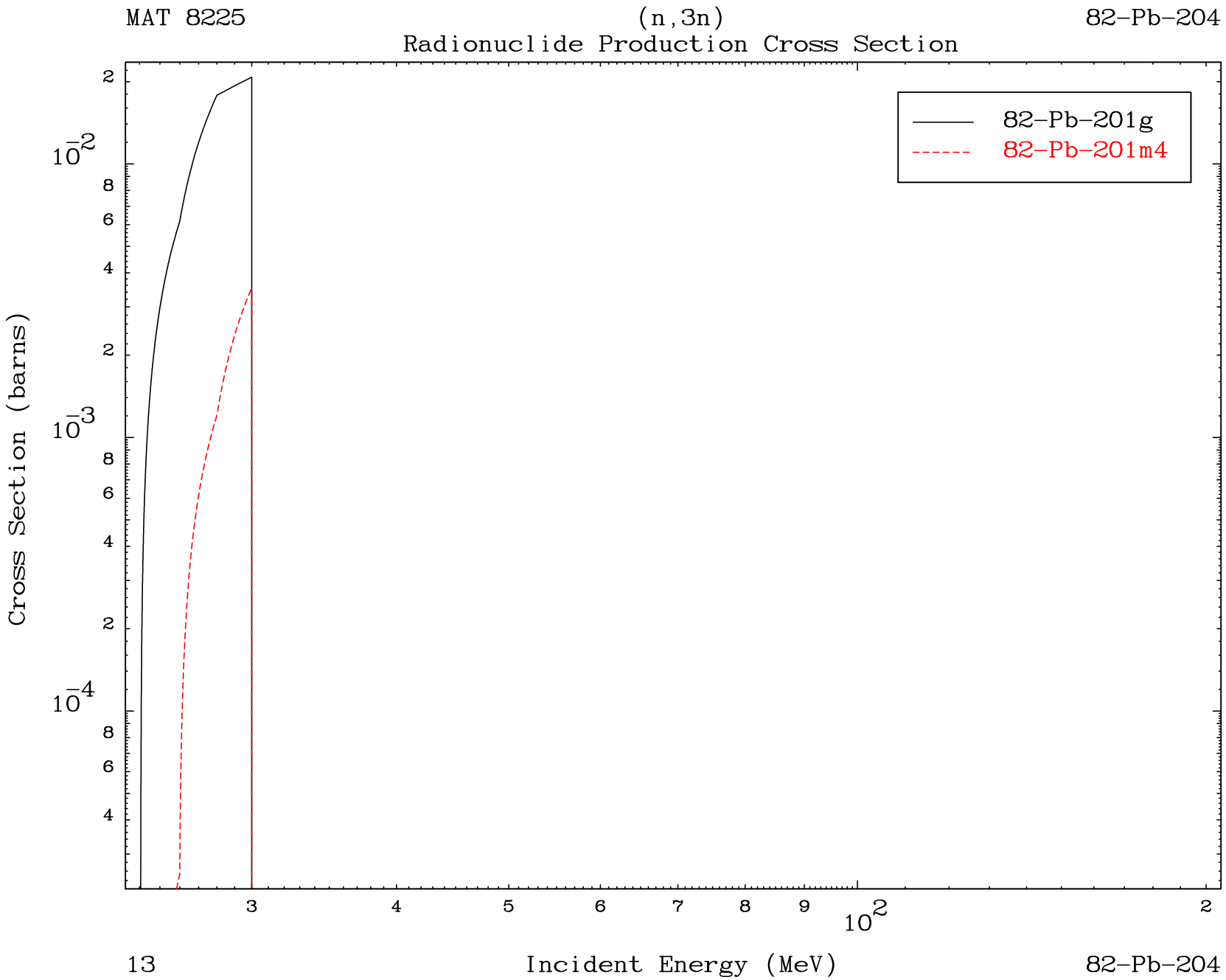

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

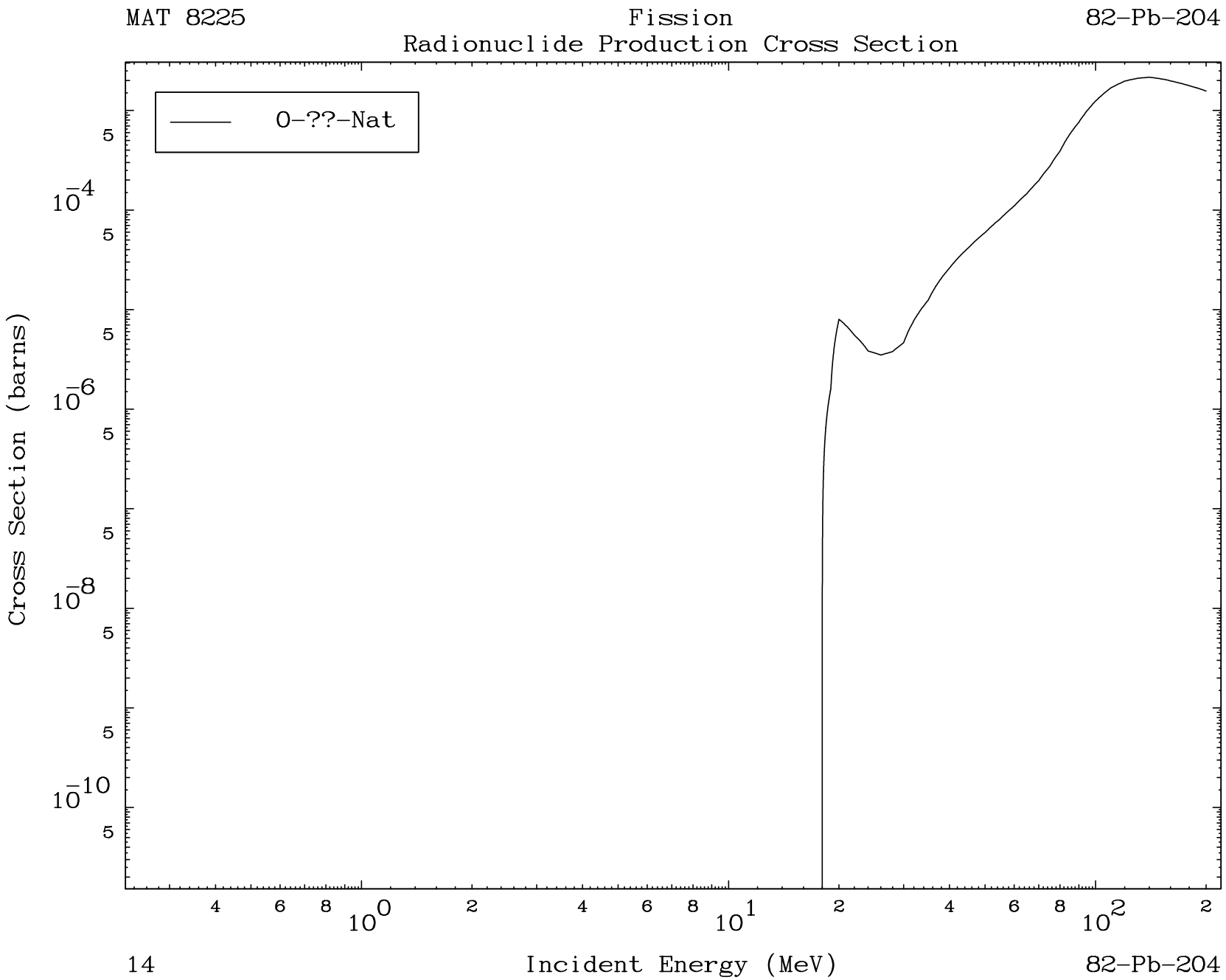

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

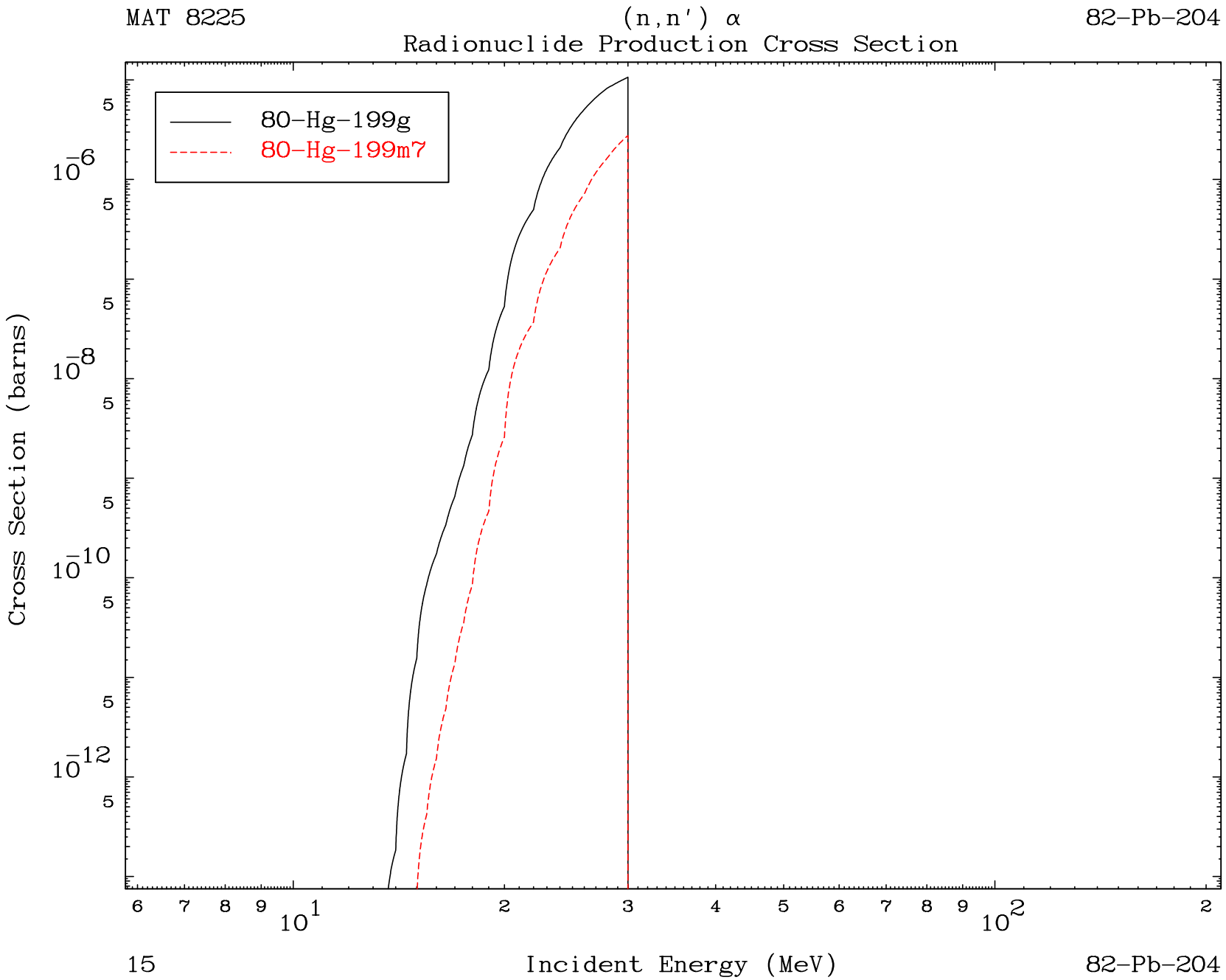

MAT 8225
(γ,α) Levels
82-Pb-204
0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-204

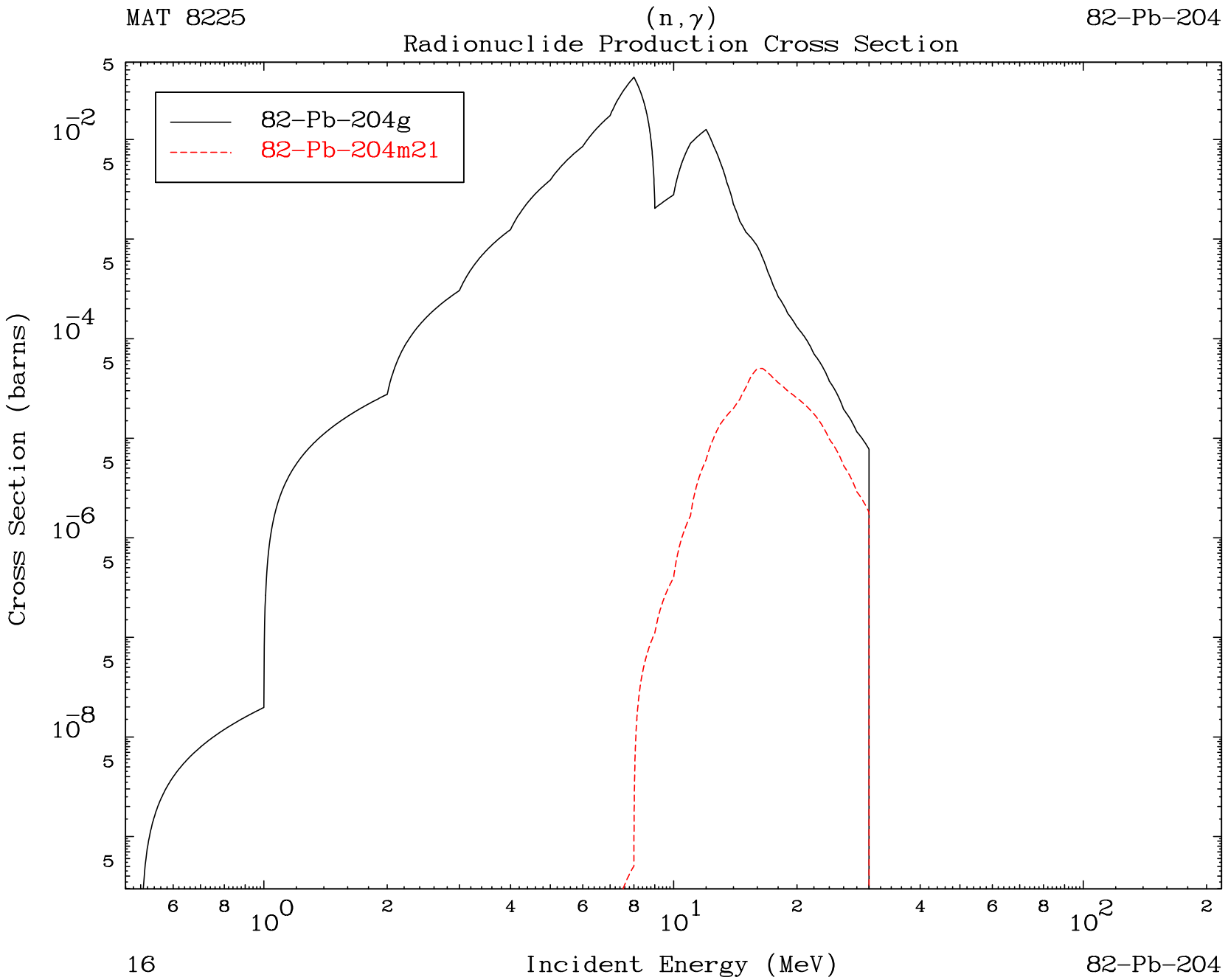

MAT 8225
Inelastic
82-Pb-204
Radionuclide Production Cross Section
82-Pb-203g
82-Pb-203m6
82-Pb-203m51
Cross Section (barns)
Incident Energy (MeV)
11
82-Pb-204


MAT 8225
(n,2n)
82-Pb-204
Radionuclide Production Cross Section
82-Pb-202g
82-Pb-202m14
Cross Section (barns)
Incident Energy (MeV)
12
82-Pb-204


MAT 8225
(n,3n)
82-Pb-204
Radionuclide Production Cross Section
82-Pb-201g
82-Pb-201m4
Cross Section (barns)
Incident Energy (MeV)
13
82-Pb-204


MAT 8225
Fission
82-Pb-204
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
14
82-Pb-204


MAT 8225
(n,n') α
82-Pb-204
Radionuclide Production Cross Section
80-Hg-199g
80-Hg-199m7
Cross Section (barns)
10-6
10-8
10-10
10-12
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
15
82-Pb-204


MAT 8225
(n,γ)
82-Pb-204
Radionuclide Production Cross Section
82-Pb-204g
82-Pb-204m21
Cross Section (barns)
Incident Energy (MeV)
16
82-Pb-204