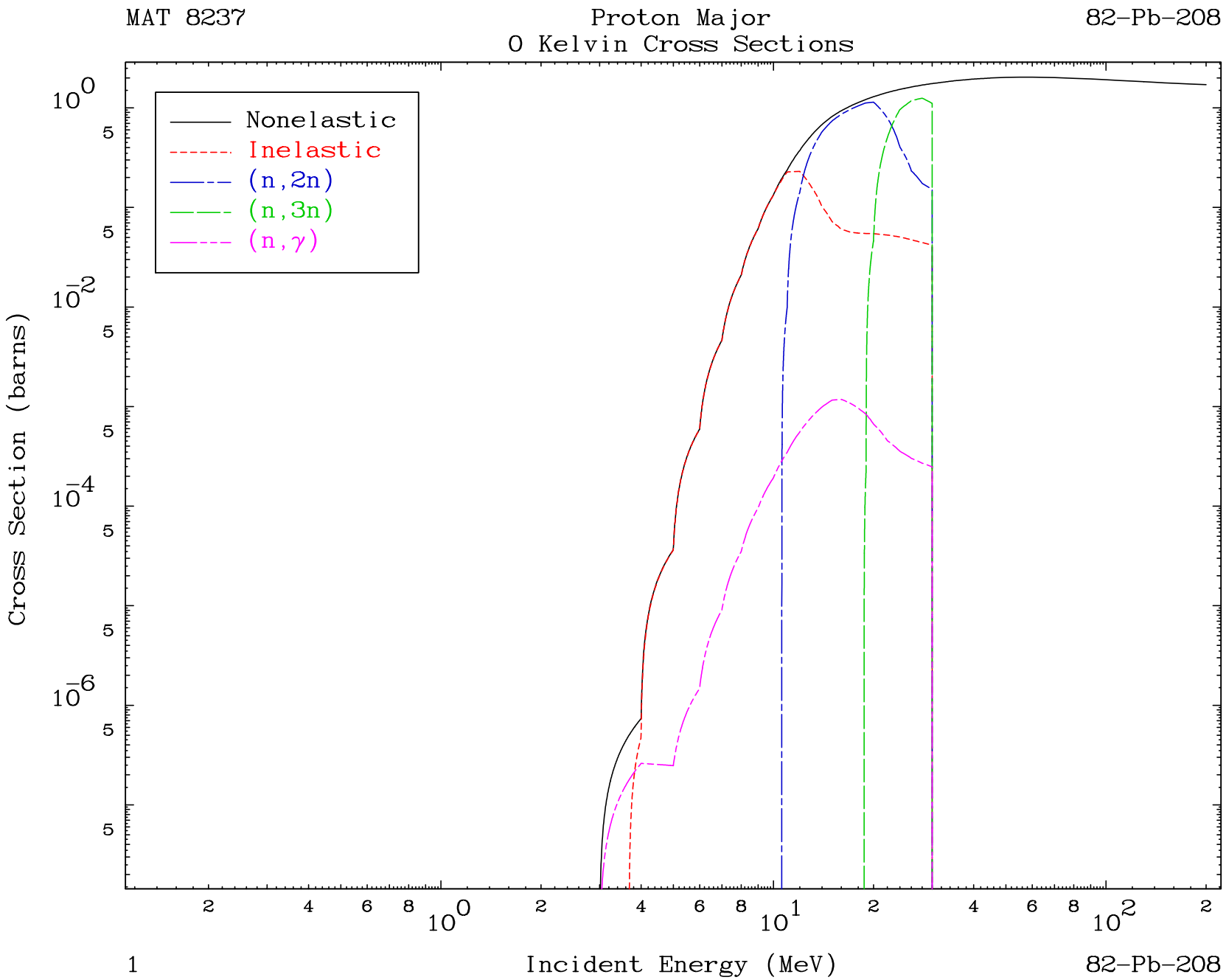
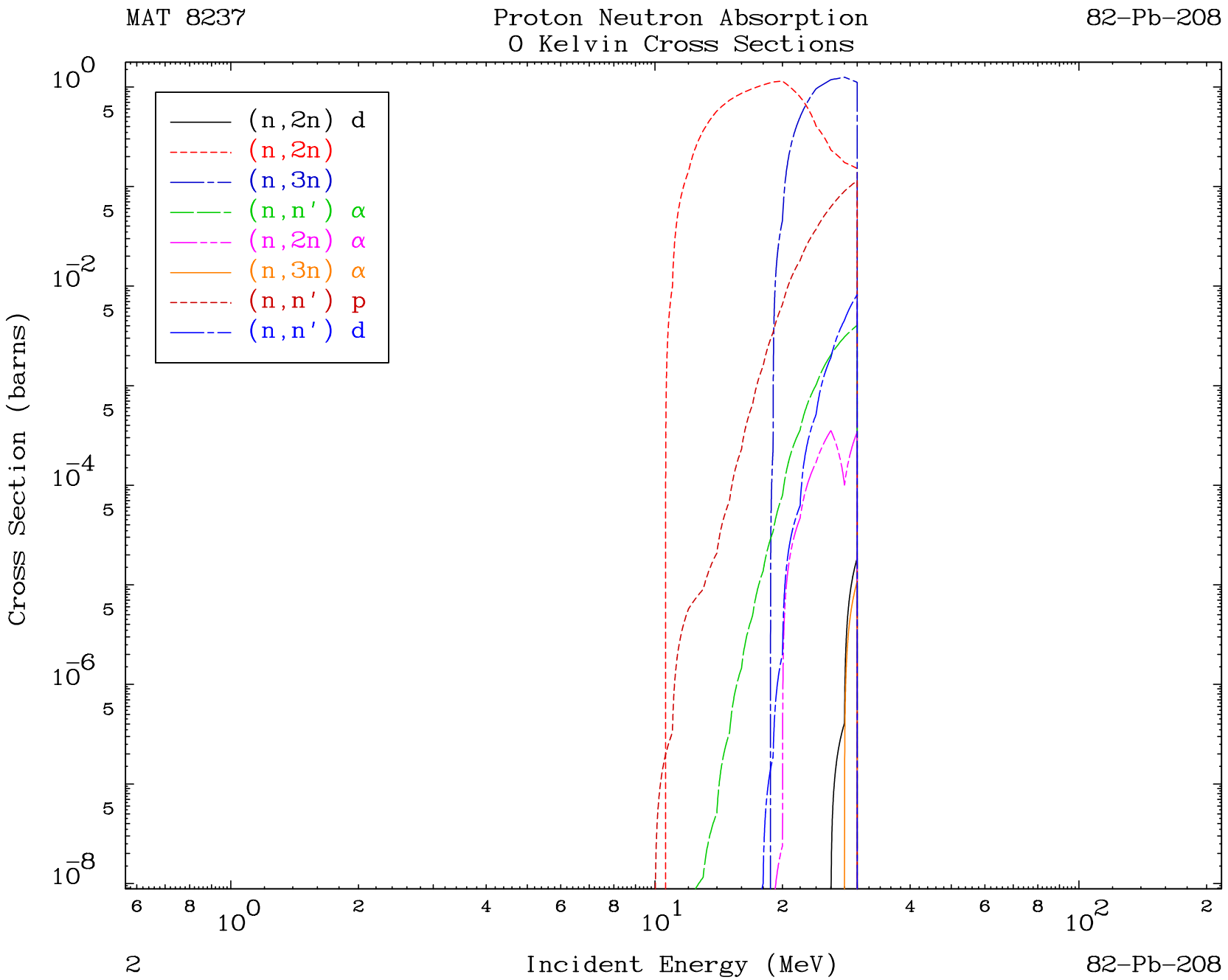
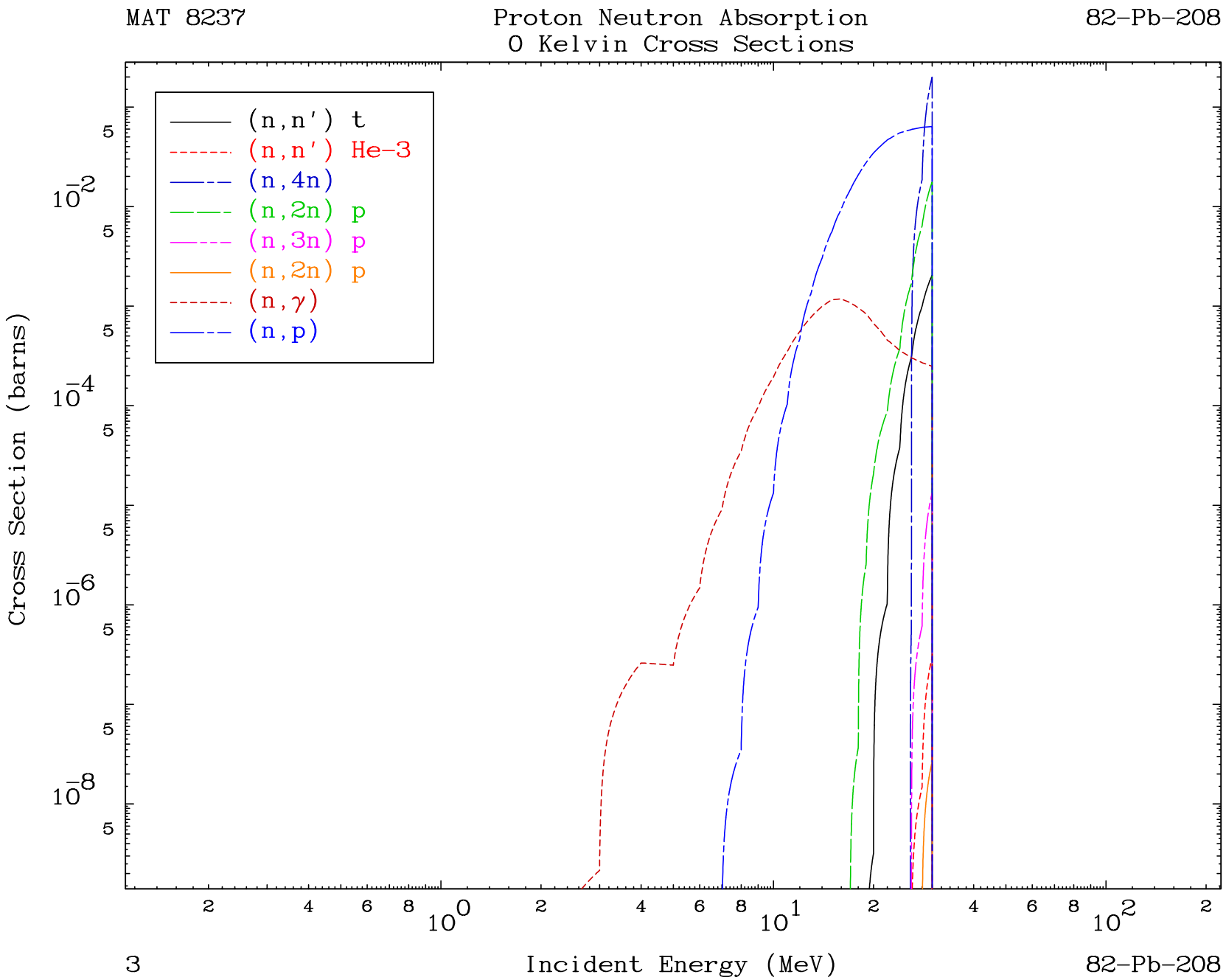
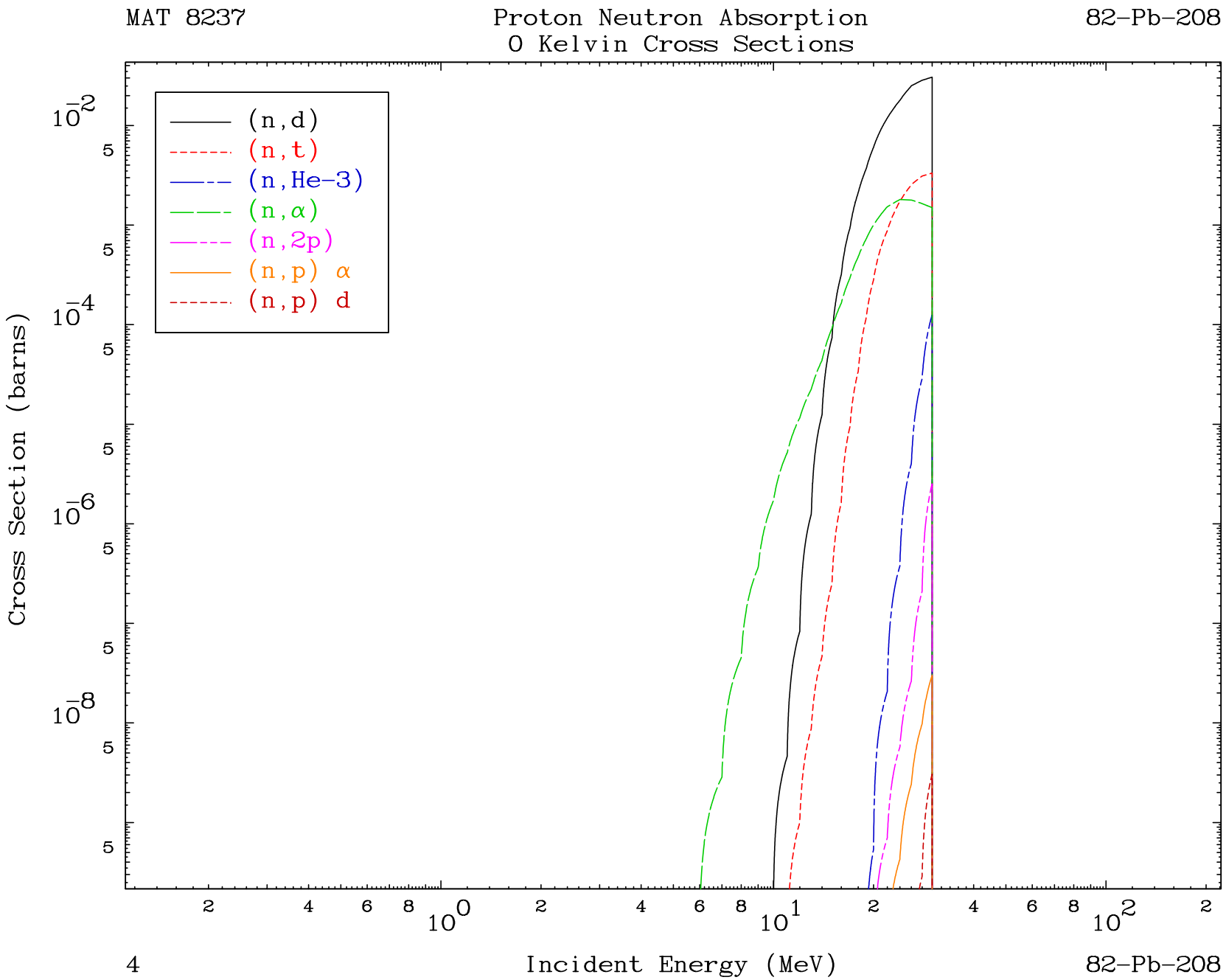
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

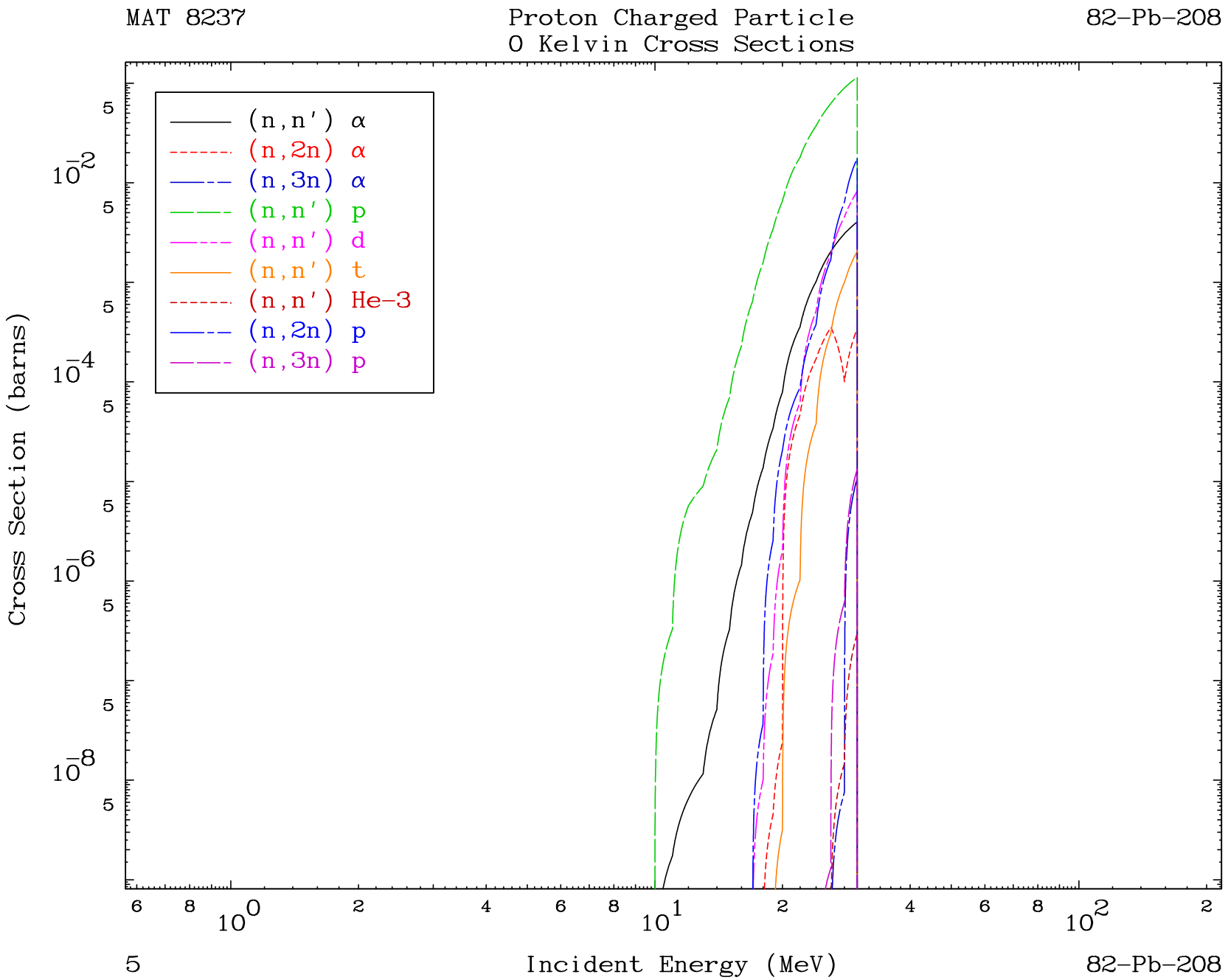
Press Mouse Button to Start

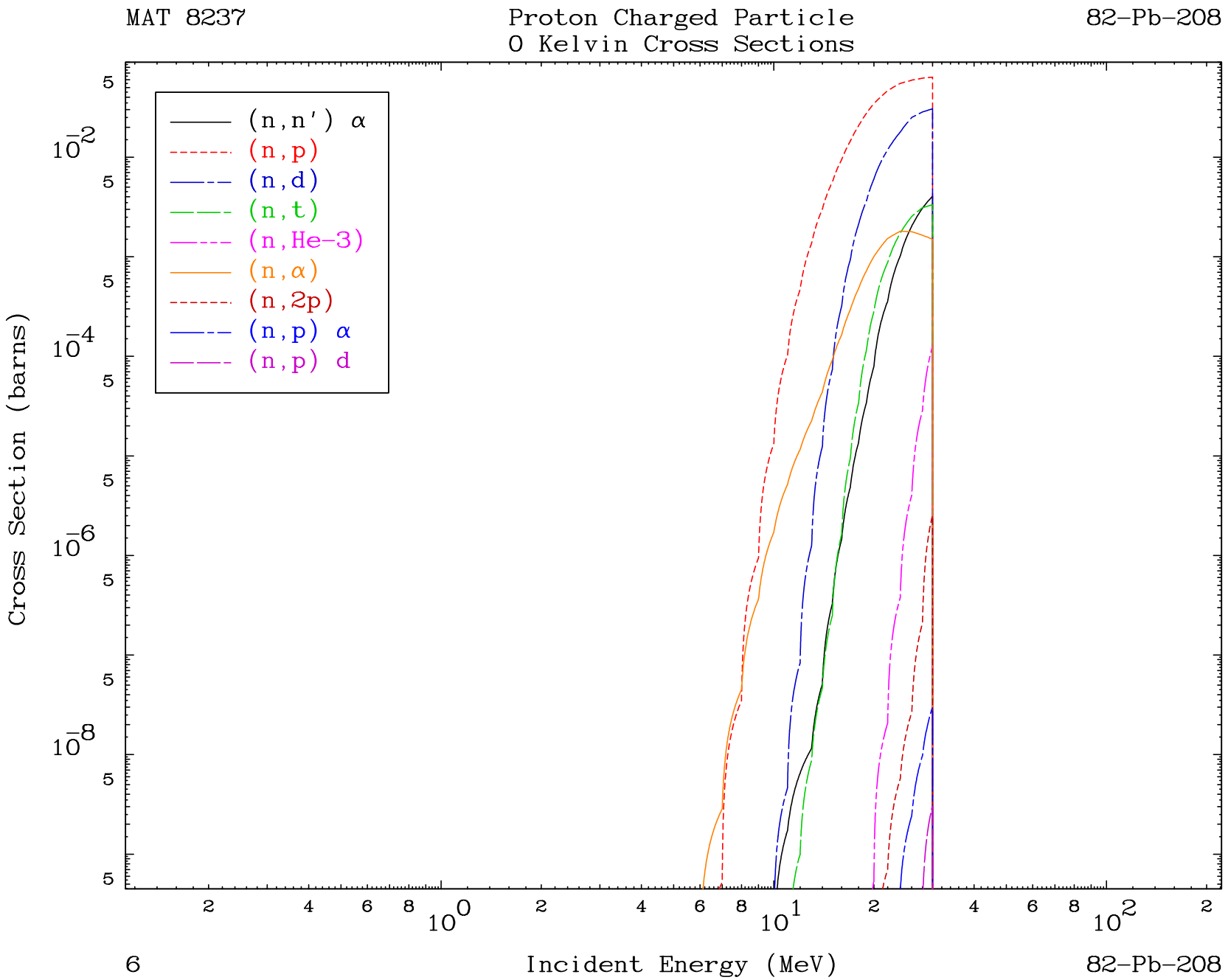

MAT 8237
Proton Major
82-Pb-208
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-208

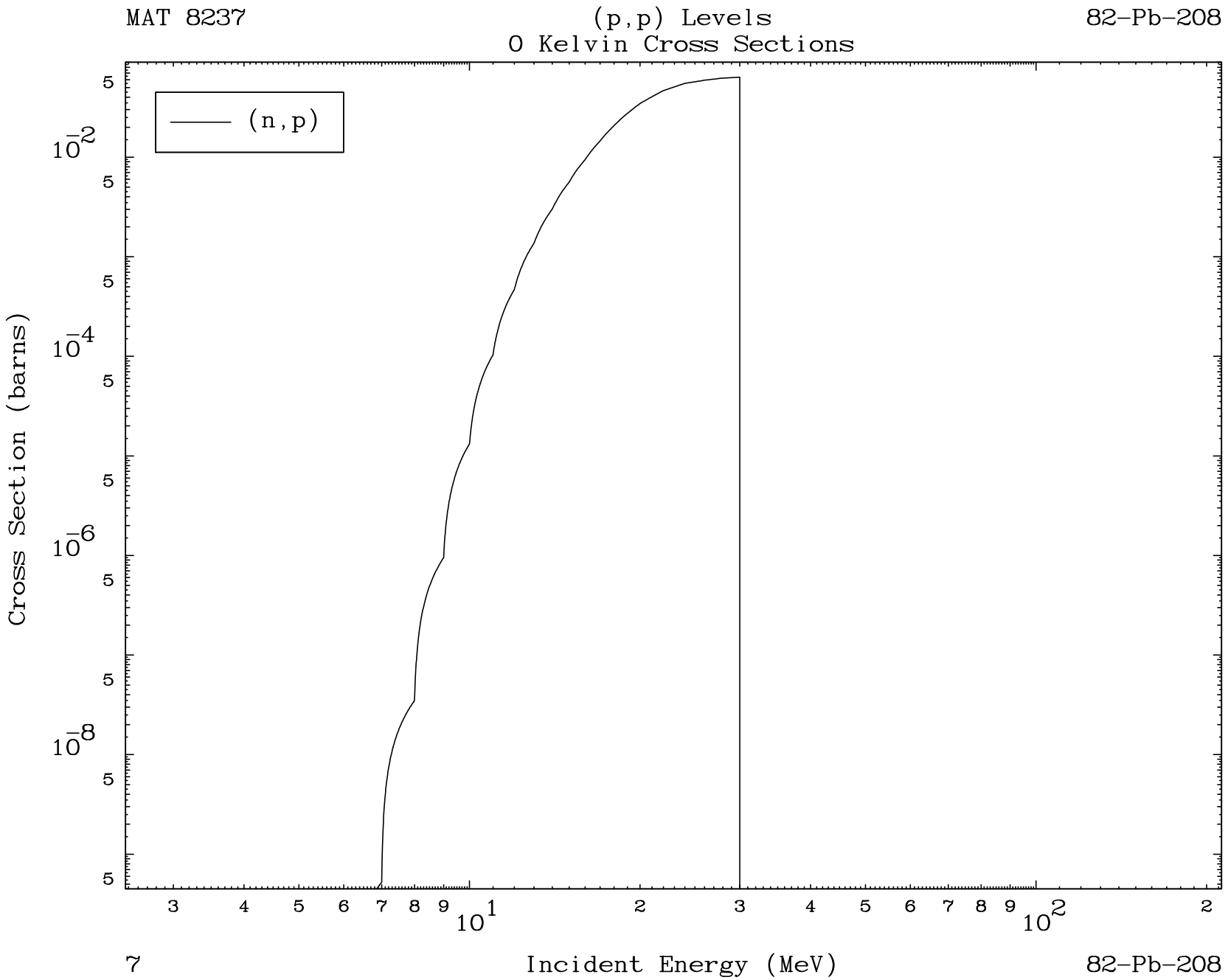

MAT 8237
Proton Neutron Absorption
0 Kelvin Cross Sections
82-Pb-208
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
82-Pb-208

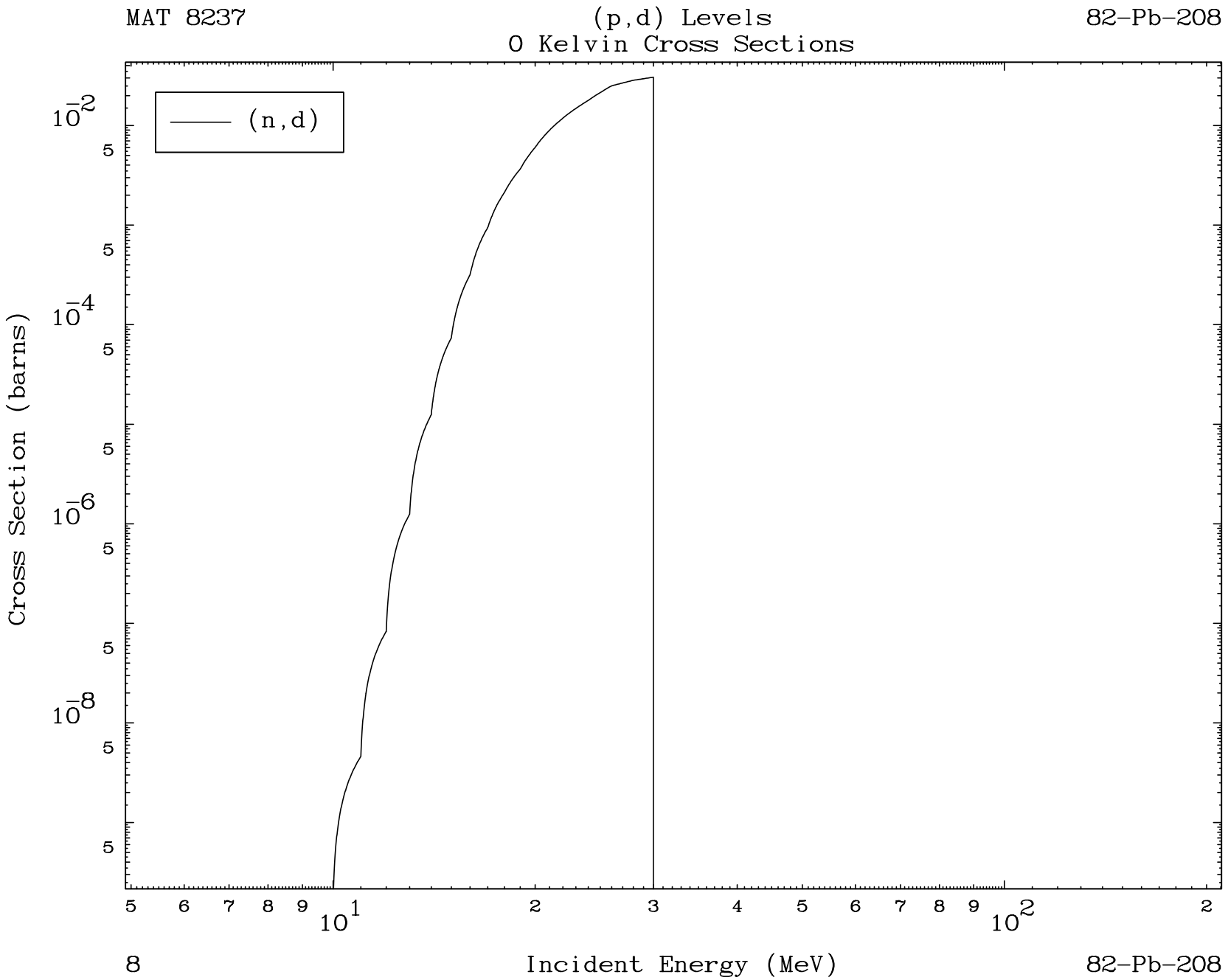

MAT 8237
Proton Neutron Absorption
0 Kelvin Cross Sections
82-Pb-208
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
3
82-Pb-208

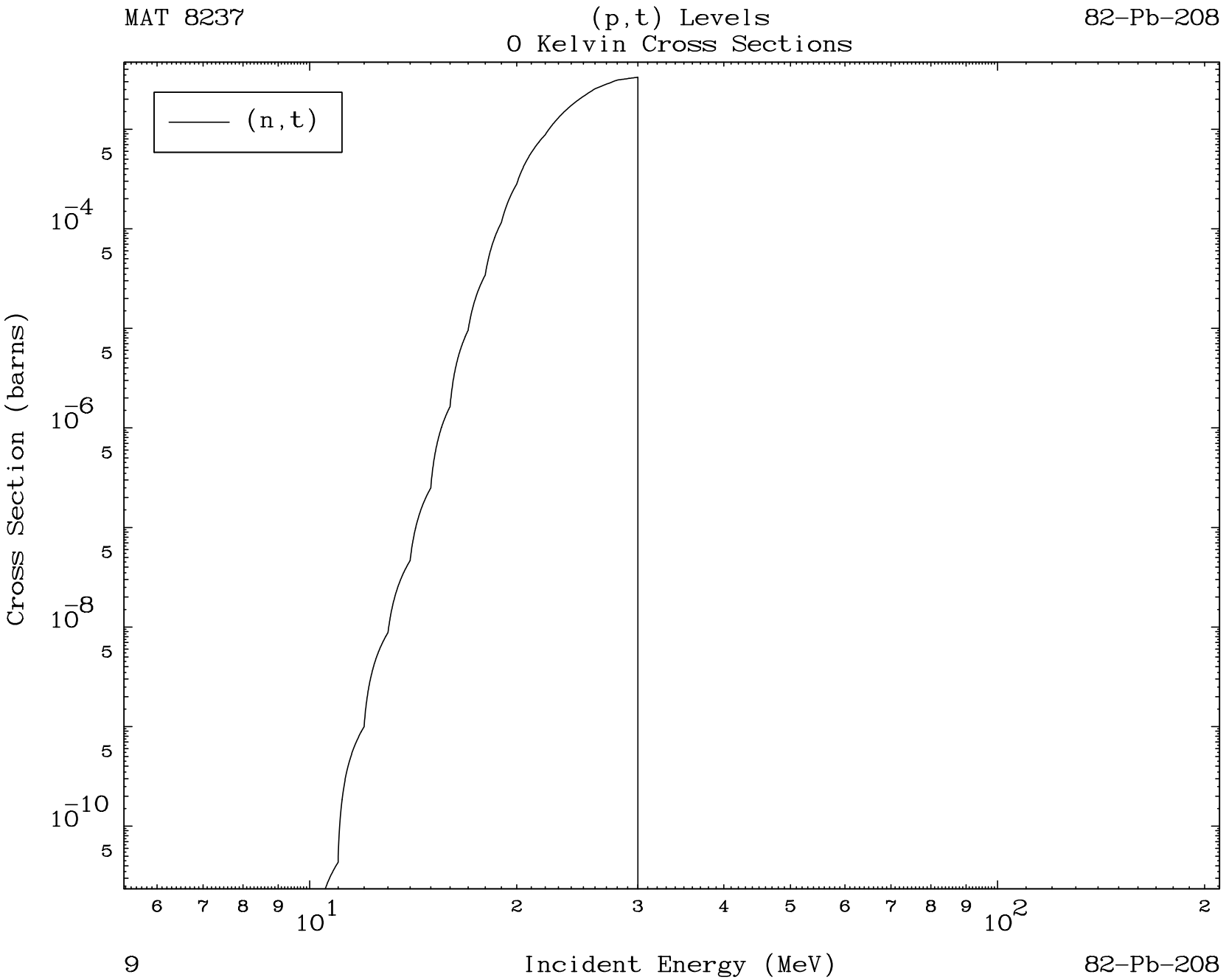

MAT 8237
Proton Neutron Absorption
0 Kelvin Cross Sections
82-Pb-208
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
4
82-Pb-208

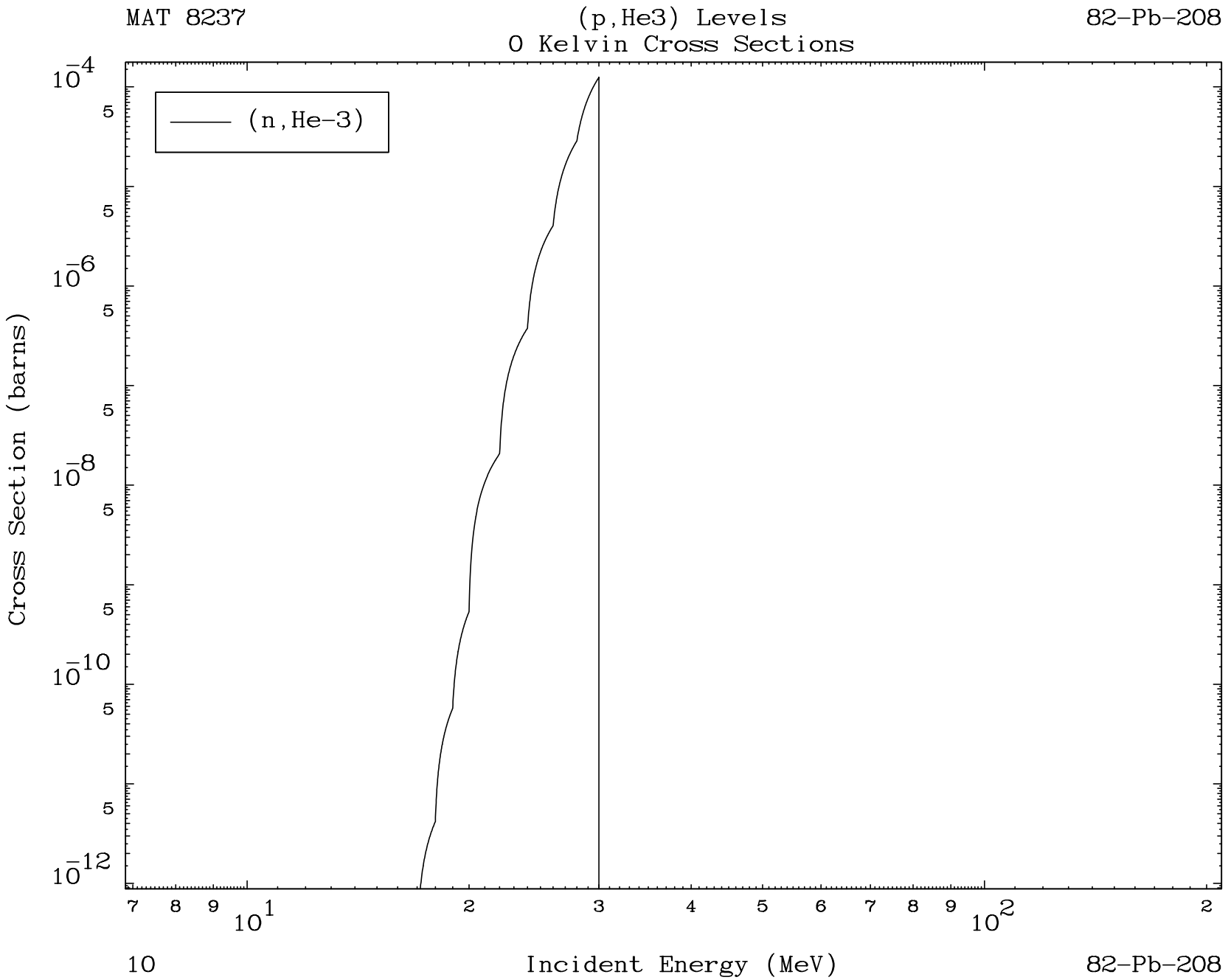

MAT 8237
Proton Charged Particle
0 Kelvin Cross Sections
82-Pb-208
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
82-Pb-208

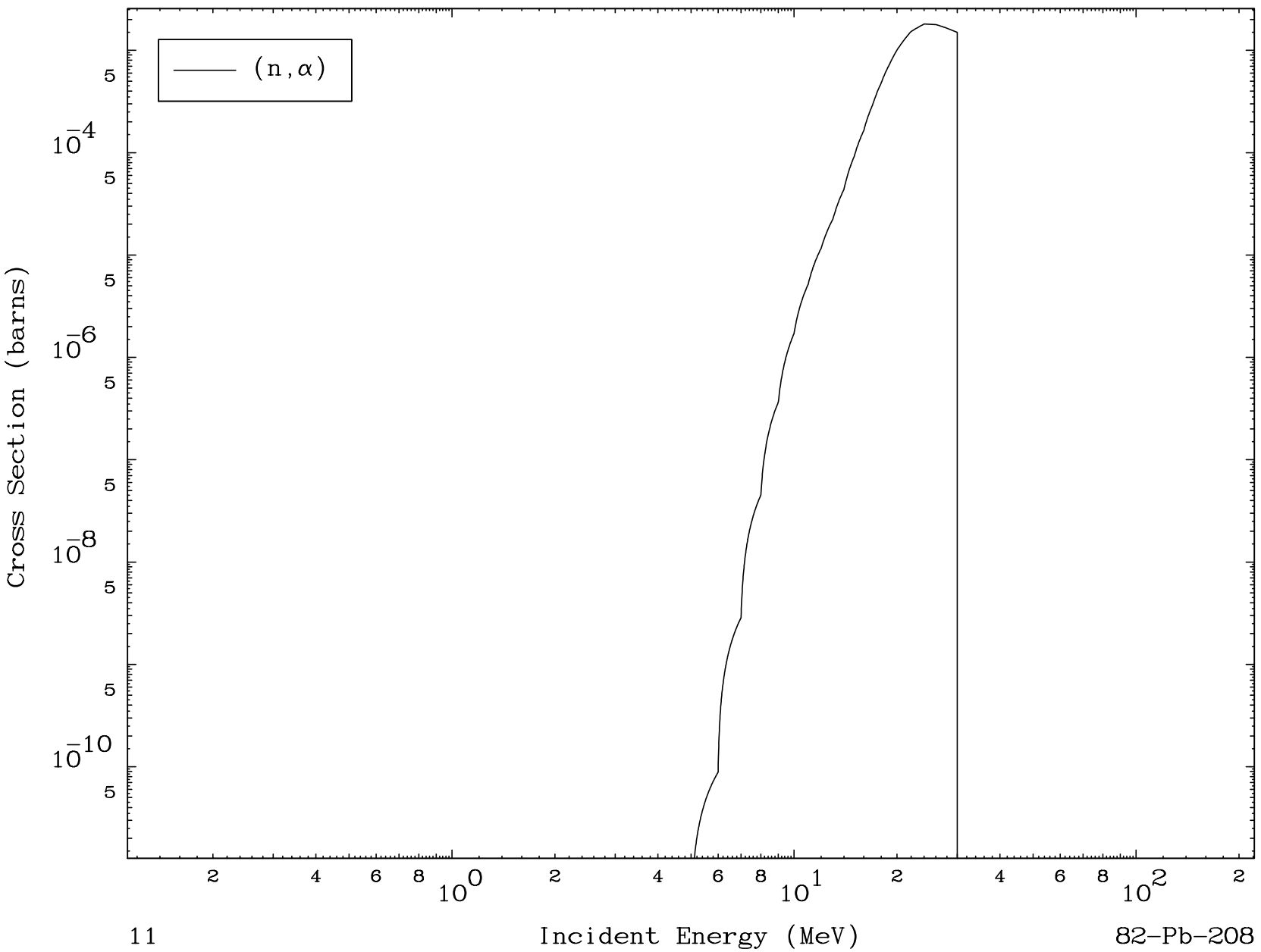

MAT 8237
Proton Charged Particle
0 Kelvin Cross Sections
82-Pb-208
(n,n') α
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
6
82-Pb-208

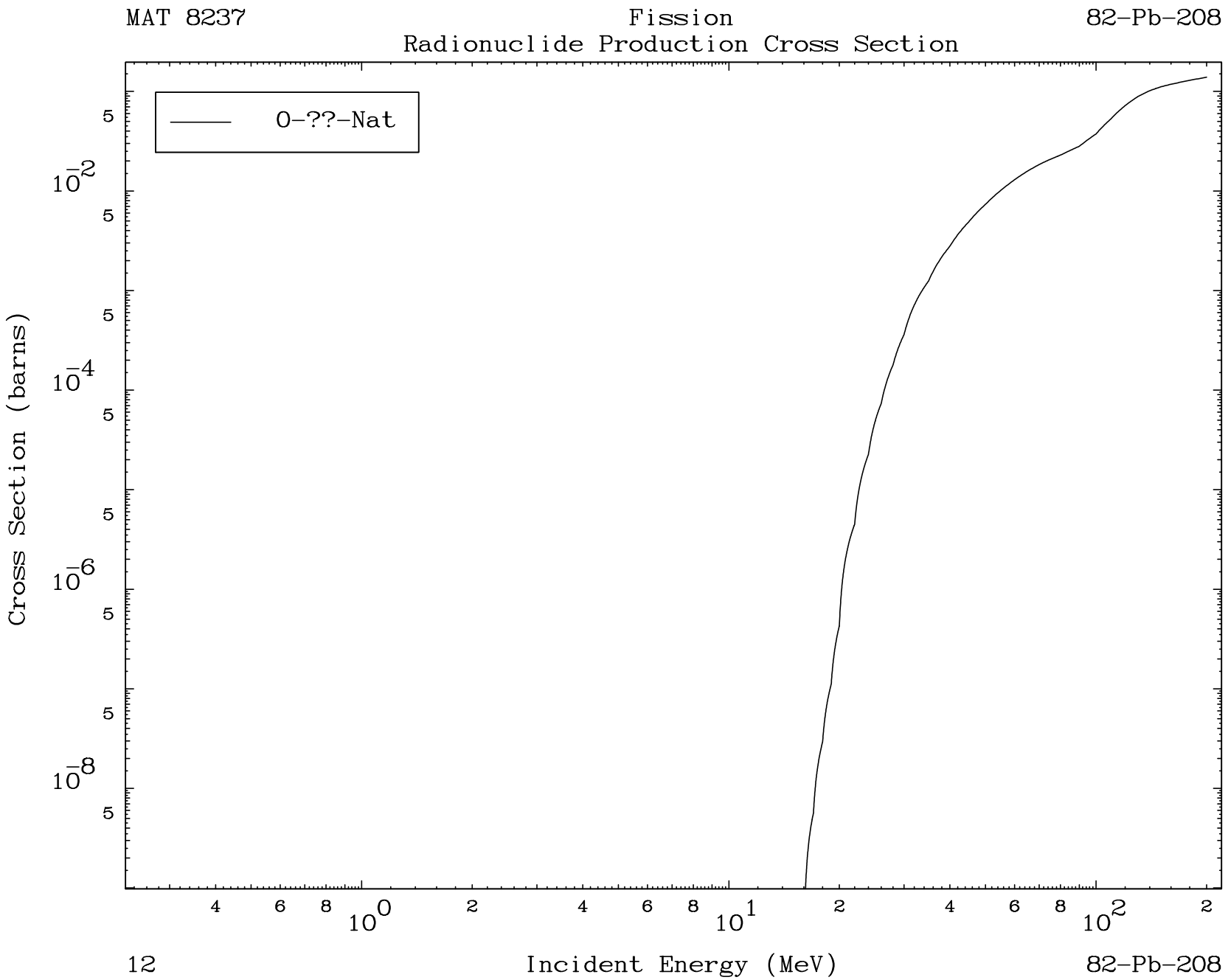

MAT 8237
(p,p) Levels
82-Pb-208
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
7
82-Pb-208

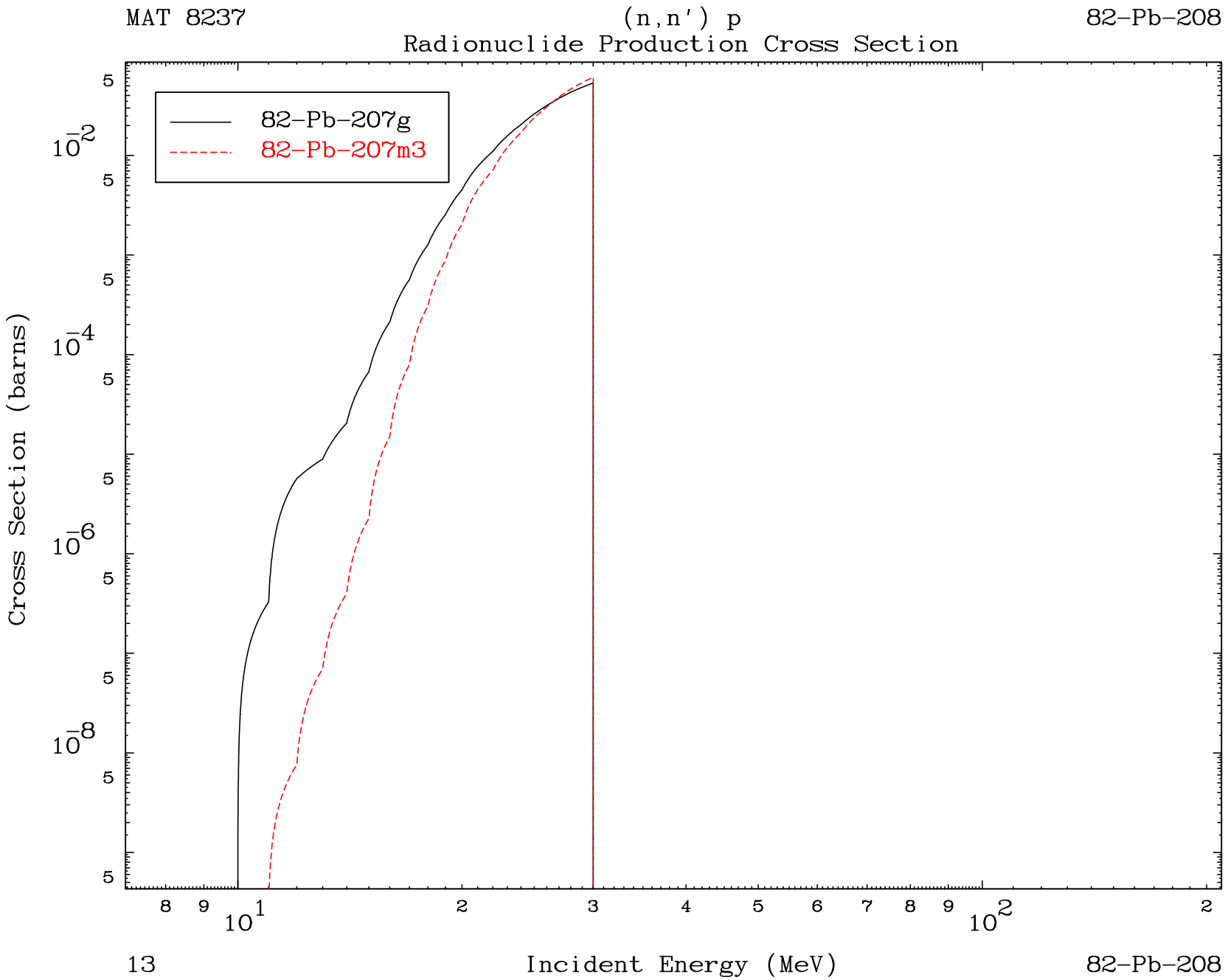

MAT 8237
(p,d) Levels
82-Pb-208
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
5
5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
8
82-Pb-208

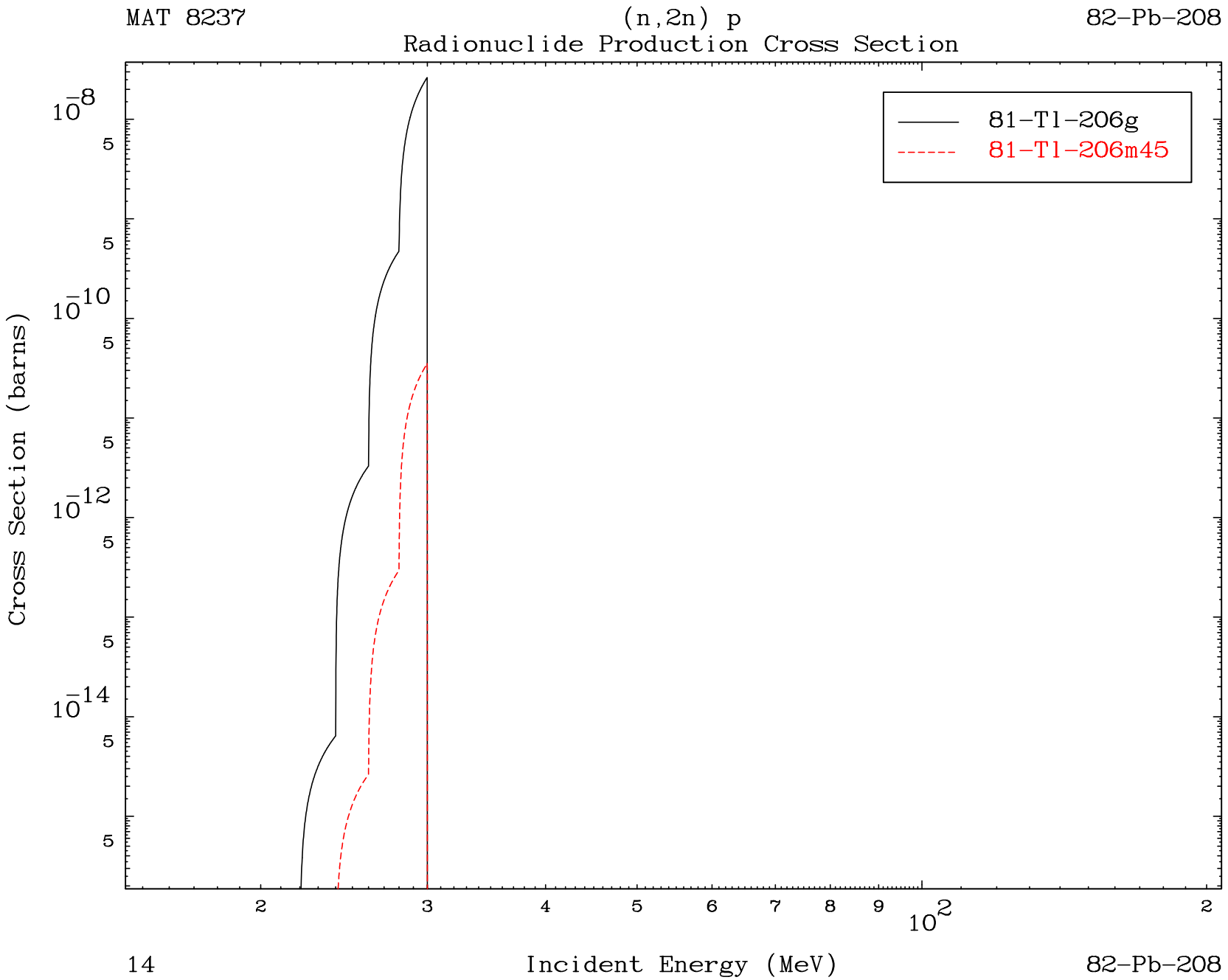

MAT 8237
(p,t) Levels
82-Pb-208
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
9
82-Pb-208

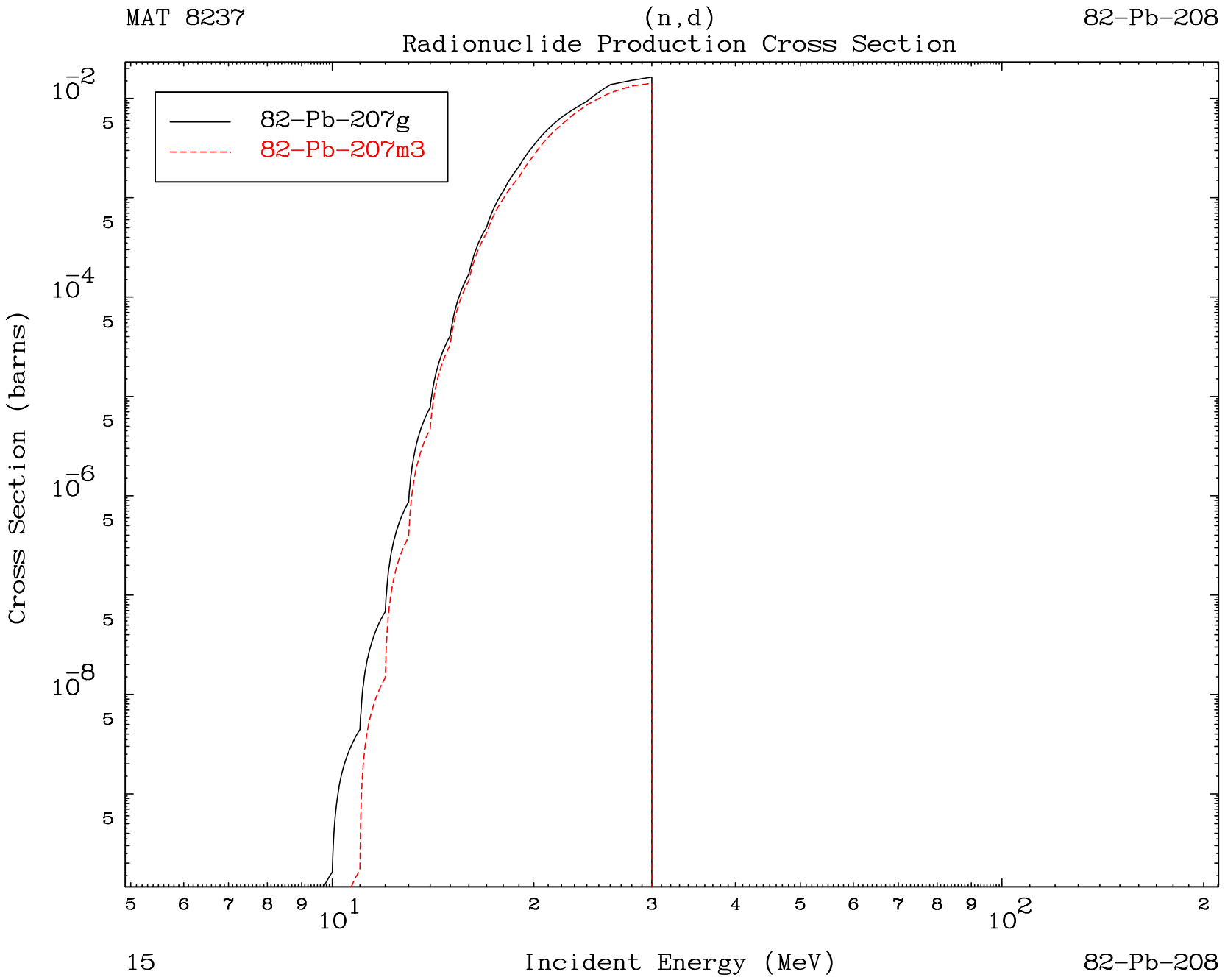

MAT 8237
(p,He3) Levels
82-Pb-208
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-208

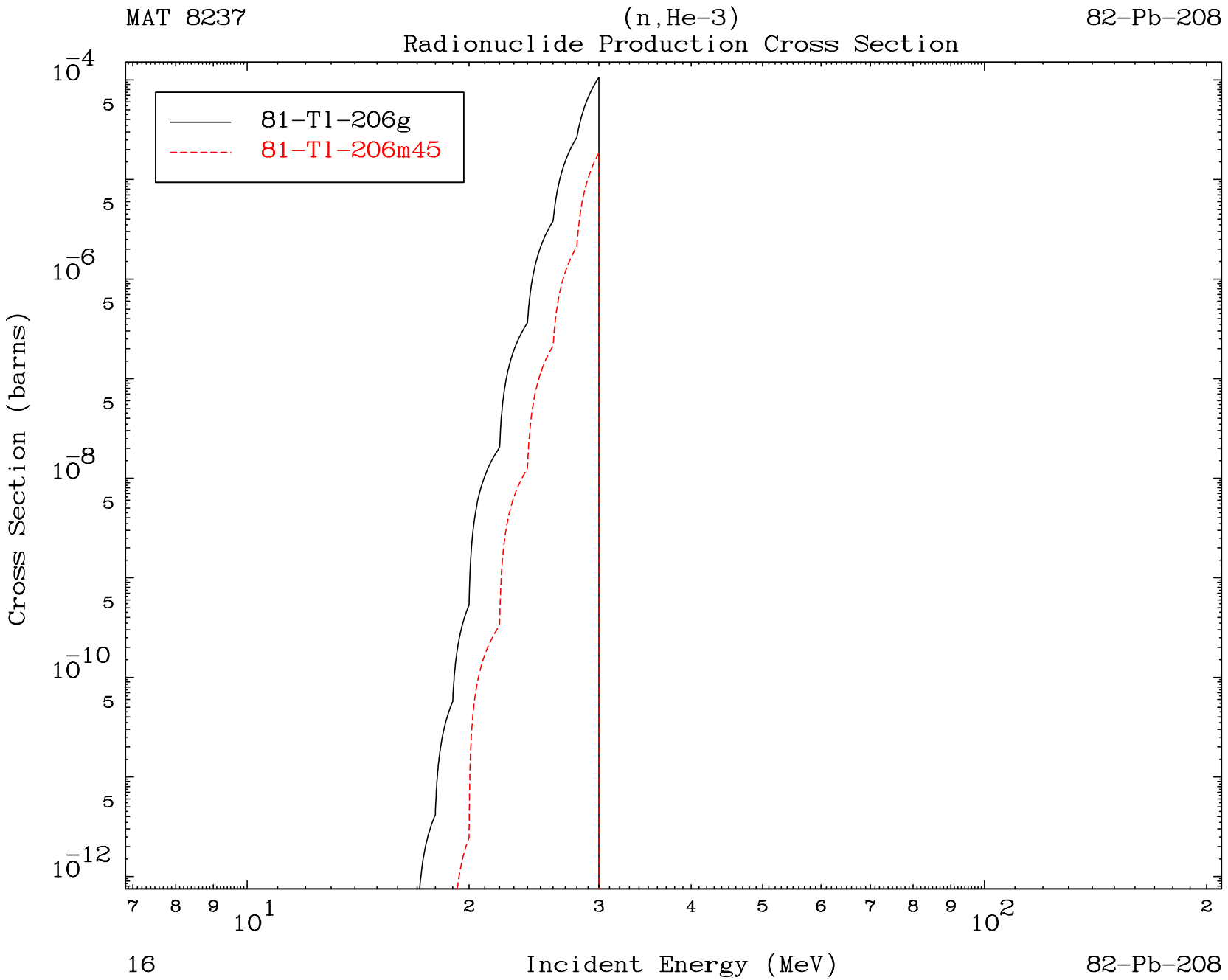

0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
4
6
8
10^0
10^1
10^2
Incident Energy (MeV)

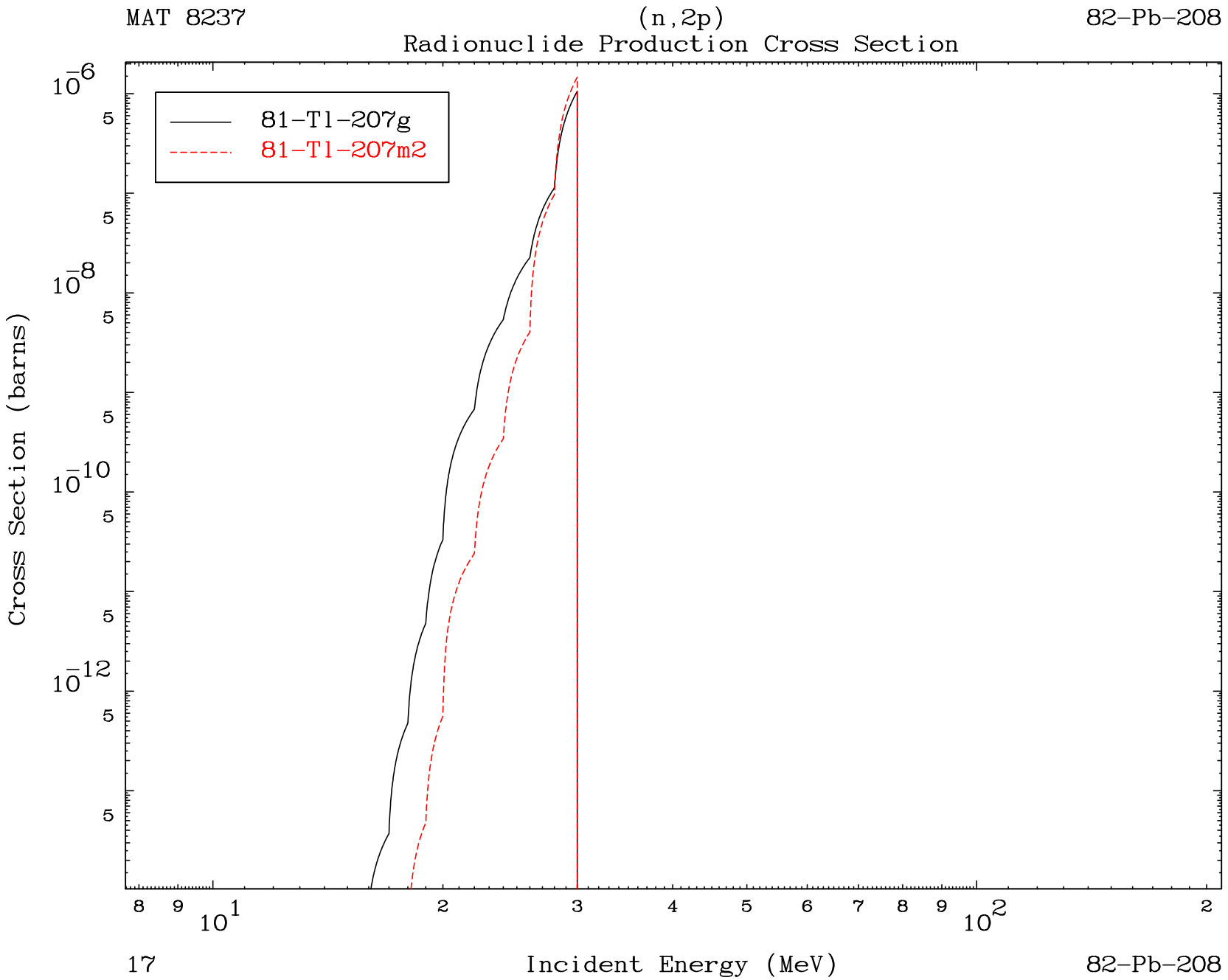

MAT 8237
Fission
82-Pb-208
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
12
82-Pb-208

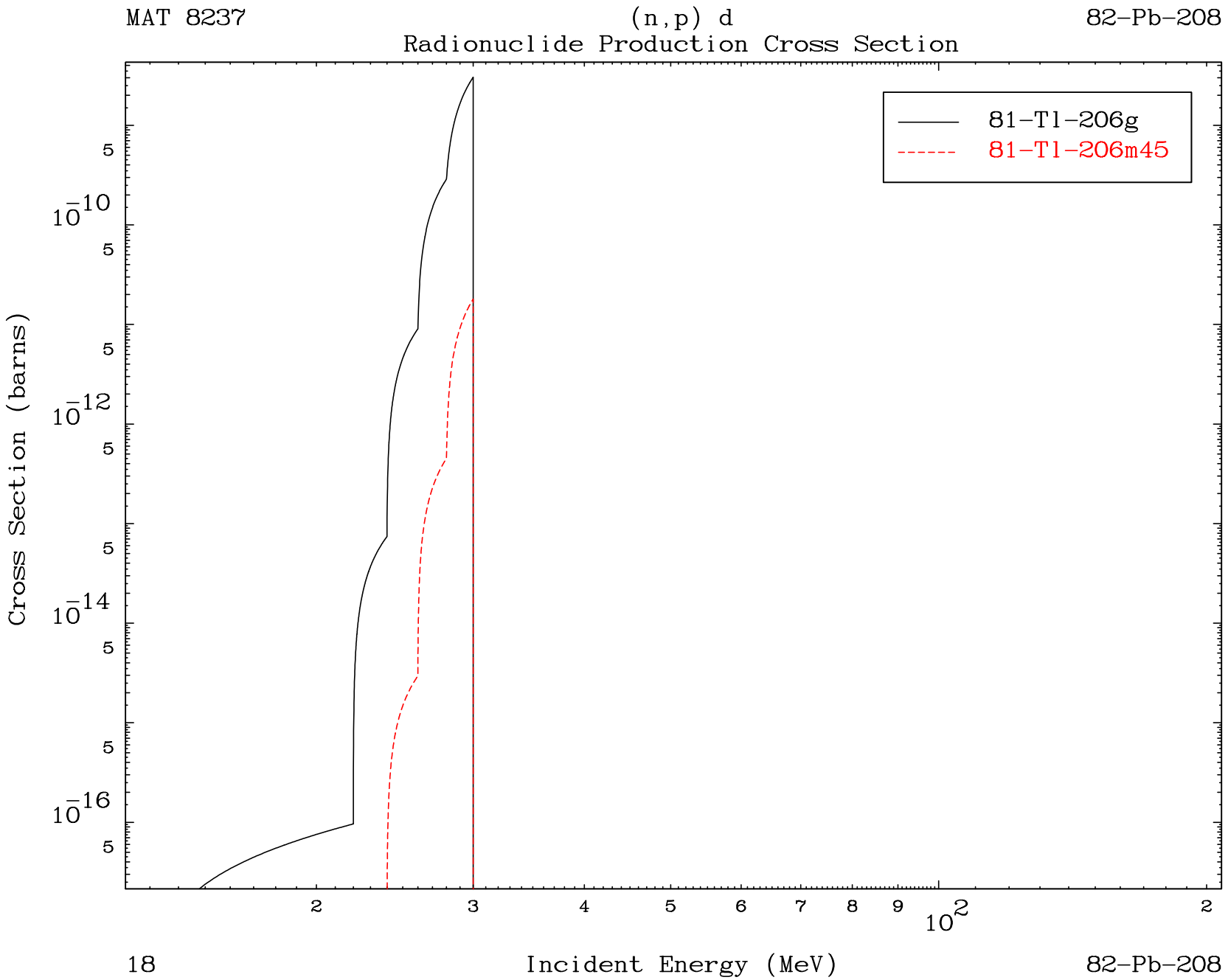

MAT 8237
(n,n') p
82-Pb-208
Radionuclide Production Cross Section
82-Pb-207g
82-Pb-207m3
Cross Section (barns)
Incident Energy (MeV)
13
82-Pb-208


MAT 8237
(n,2n) p
82-Pb-208
Radionuclide Production Cross Section
81-Tl-206g
81-Tl-206m45
Cross Section (barns)
Incident Energy (MeV)
14
82-Pb-208


MAT 8237
(n,d)
82-Pb-208
Radionuclide Production Cross Section
82-Pb-207g
82-Pb-207m3
Cross Section (barns)
Incident Energy (MeV)
15
82-Pb-208


MAT 8237
(n,He-3)
82-Pb-208
Radionuclide Production Cross Section
81-Tl-206g
81-Tl-206m45
Cross Section (barns)
Incident Energy (MeV)
16
82-Pb-208


MAT 8237
(n,2p)
82-Pb-208
Radionuclide Production Cross Section
81-Tl-207g
81-Tl-207m2
Cross Section (barns)
Incident Energy (MeV)
17
82-Pb-208


MAT 8237
(n,p) d
82-Pb-208
Radionuclide Production Cross Section
81-Tl-206g
81-Tl-206m45
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
82-Pb-208