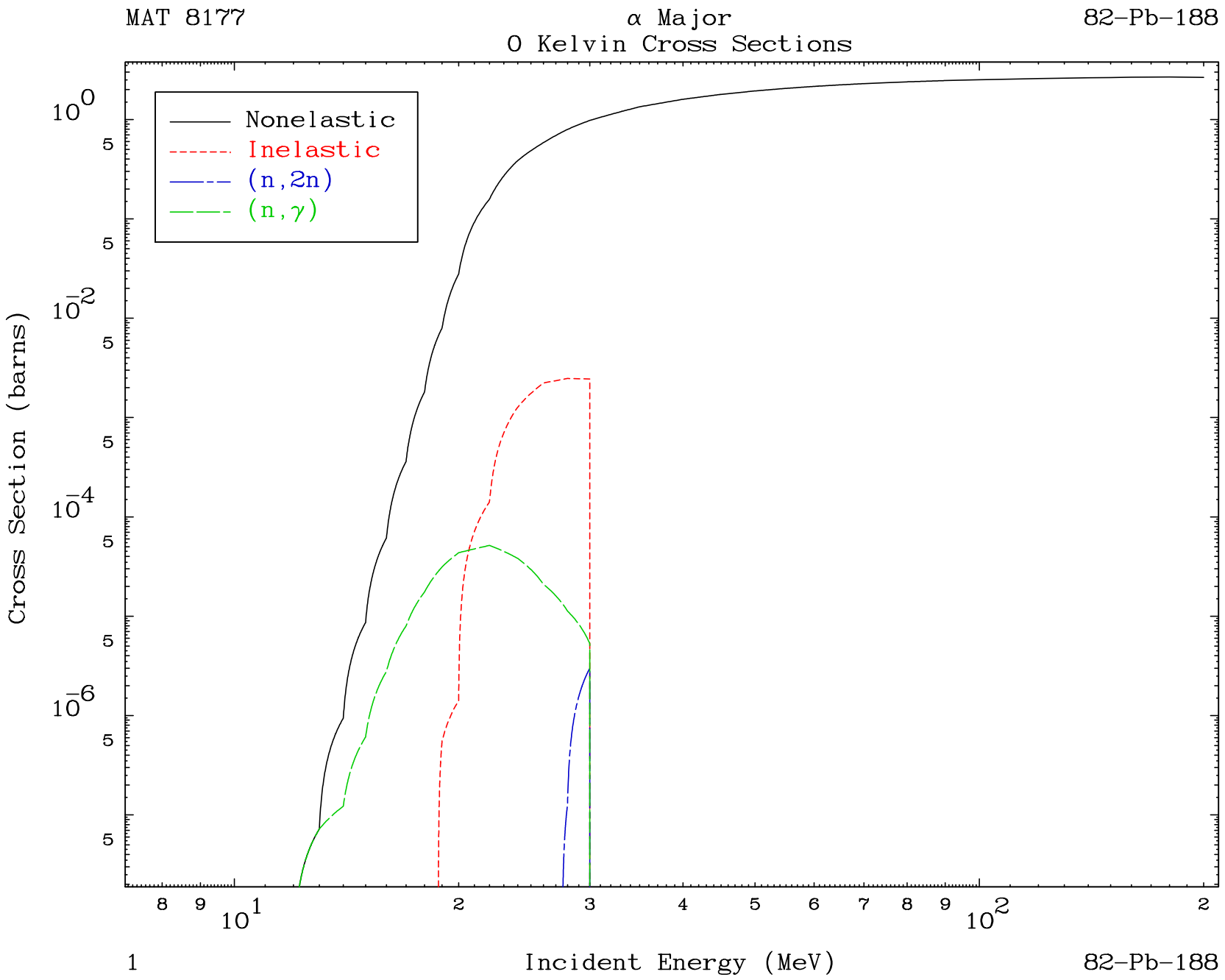
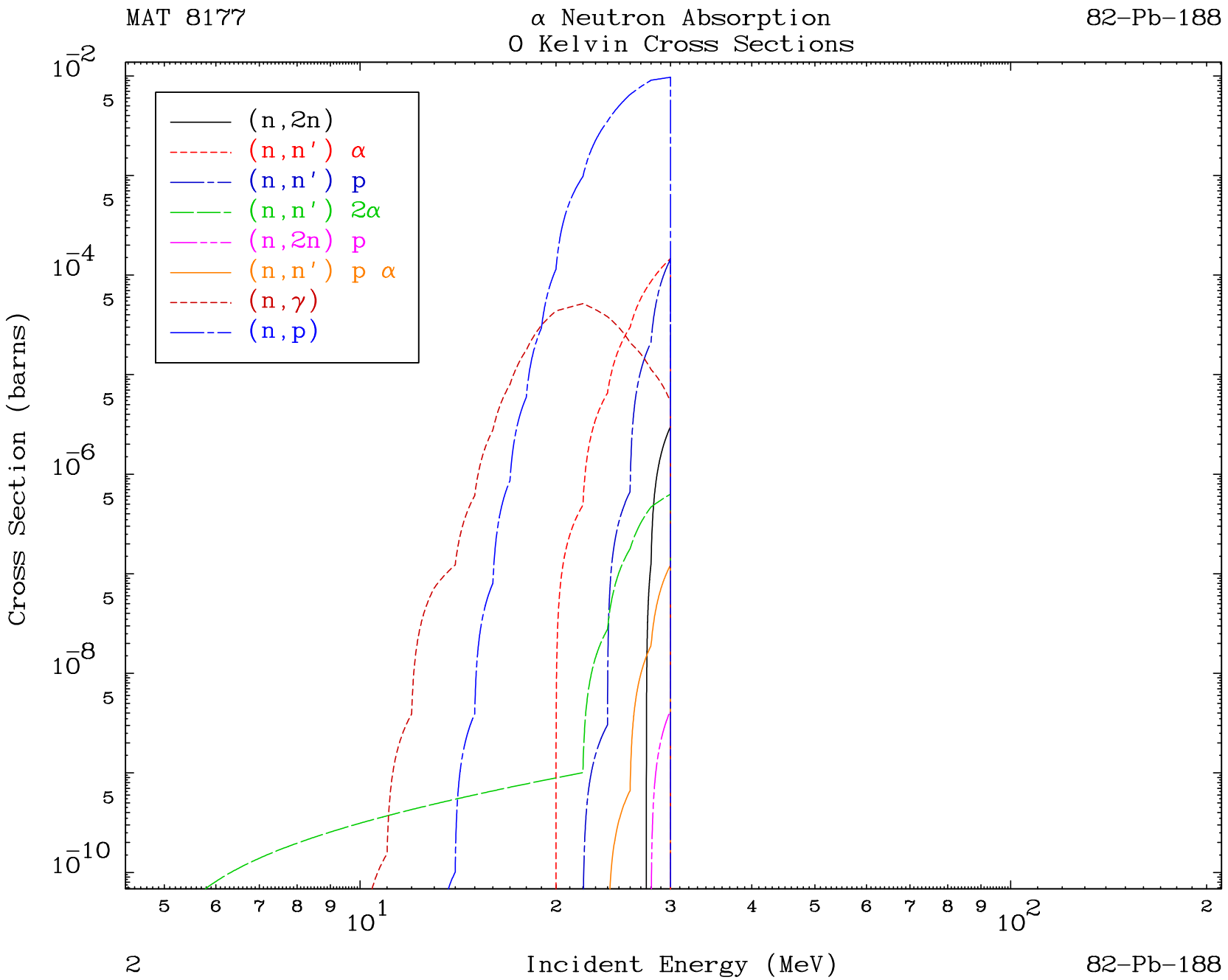
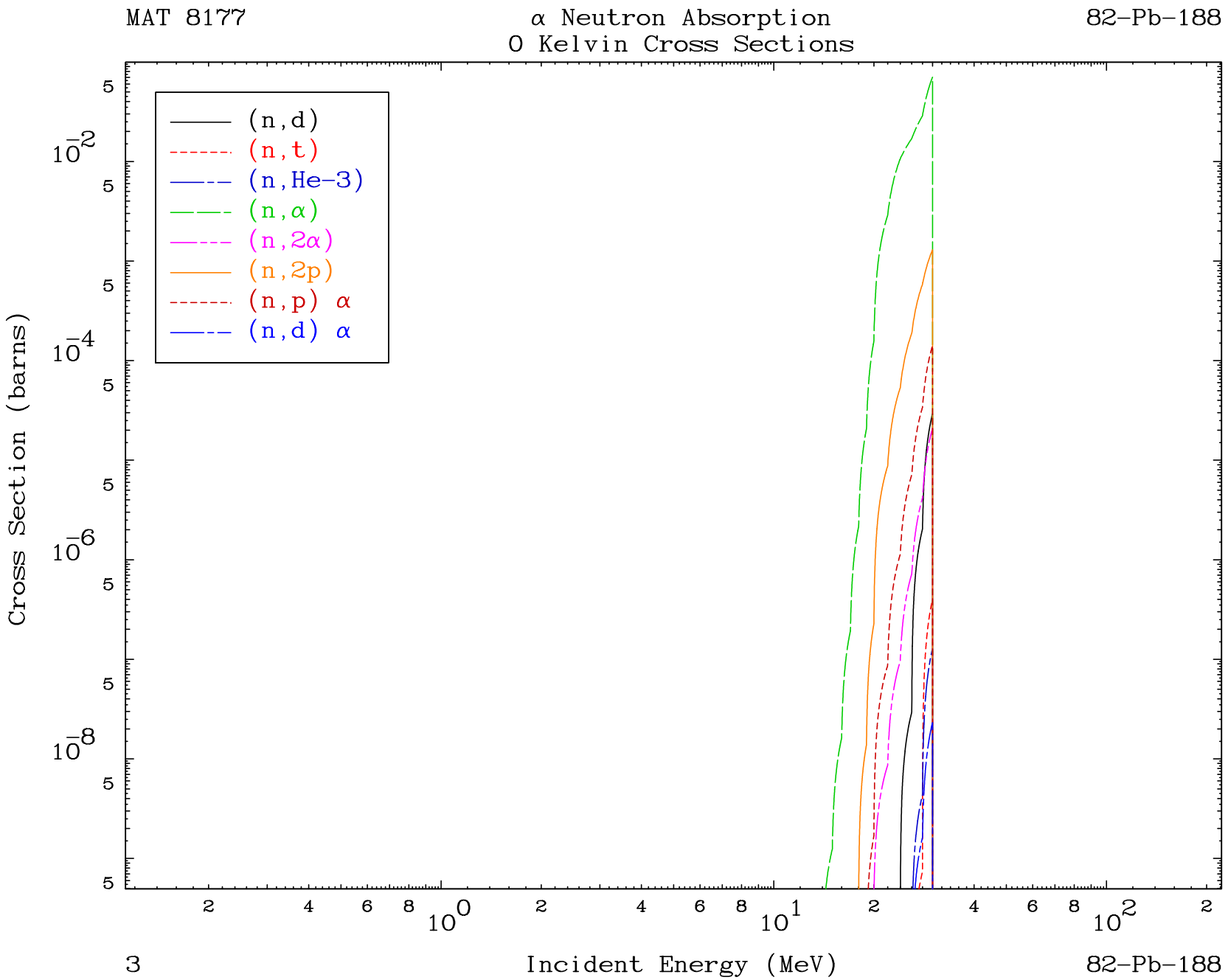
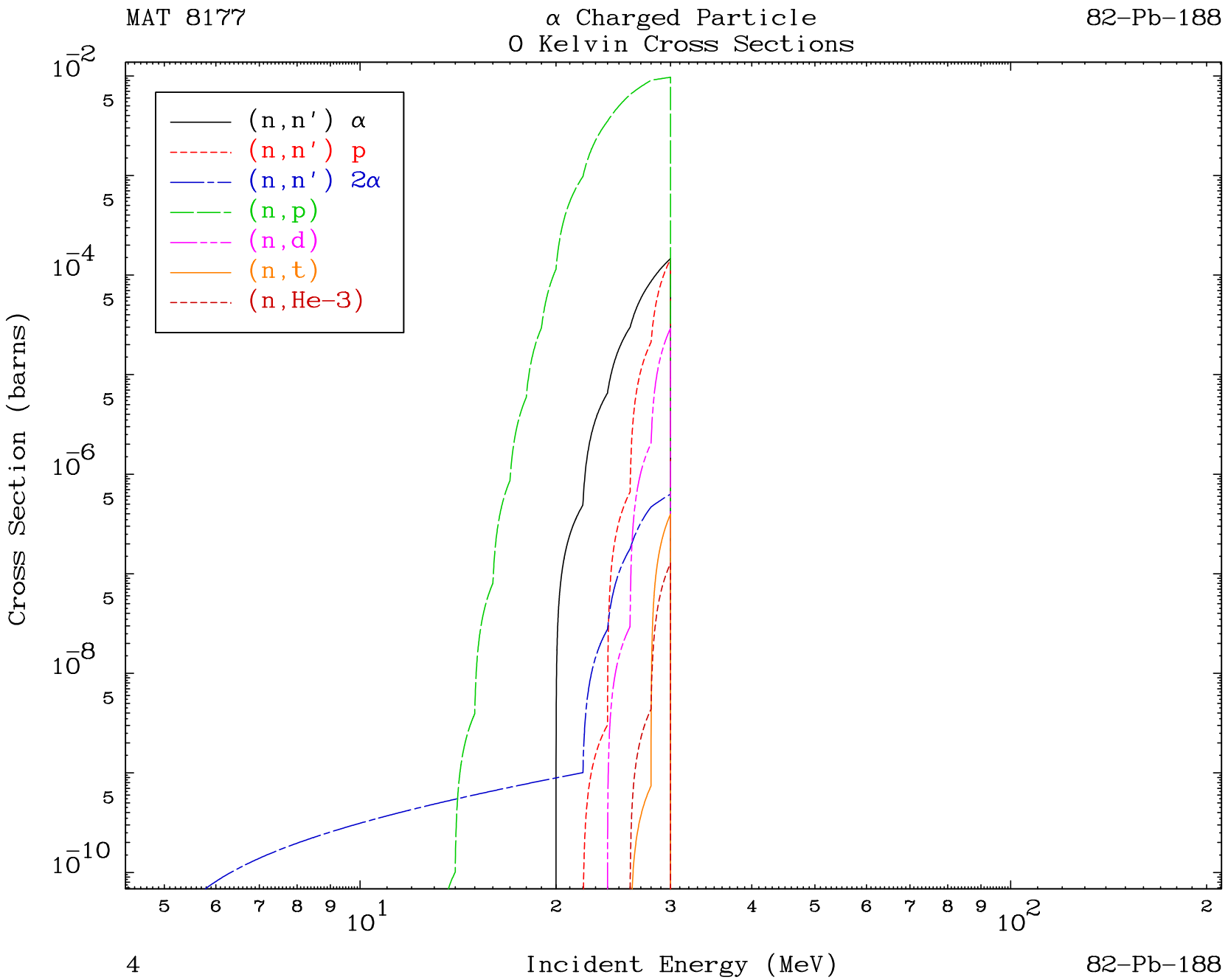
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

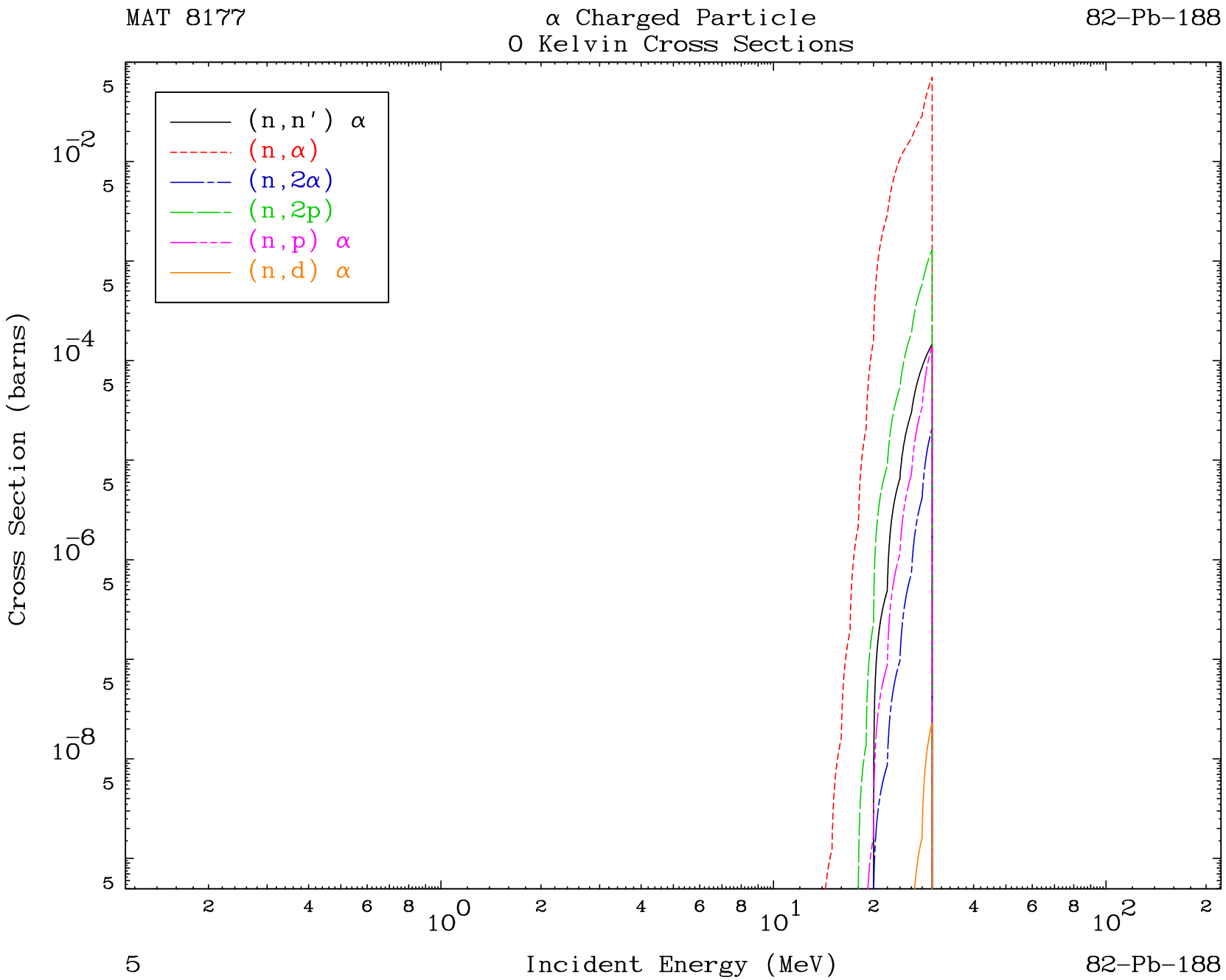
Press Mouse Button to Start

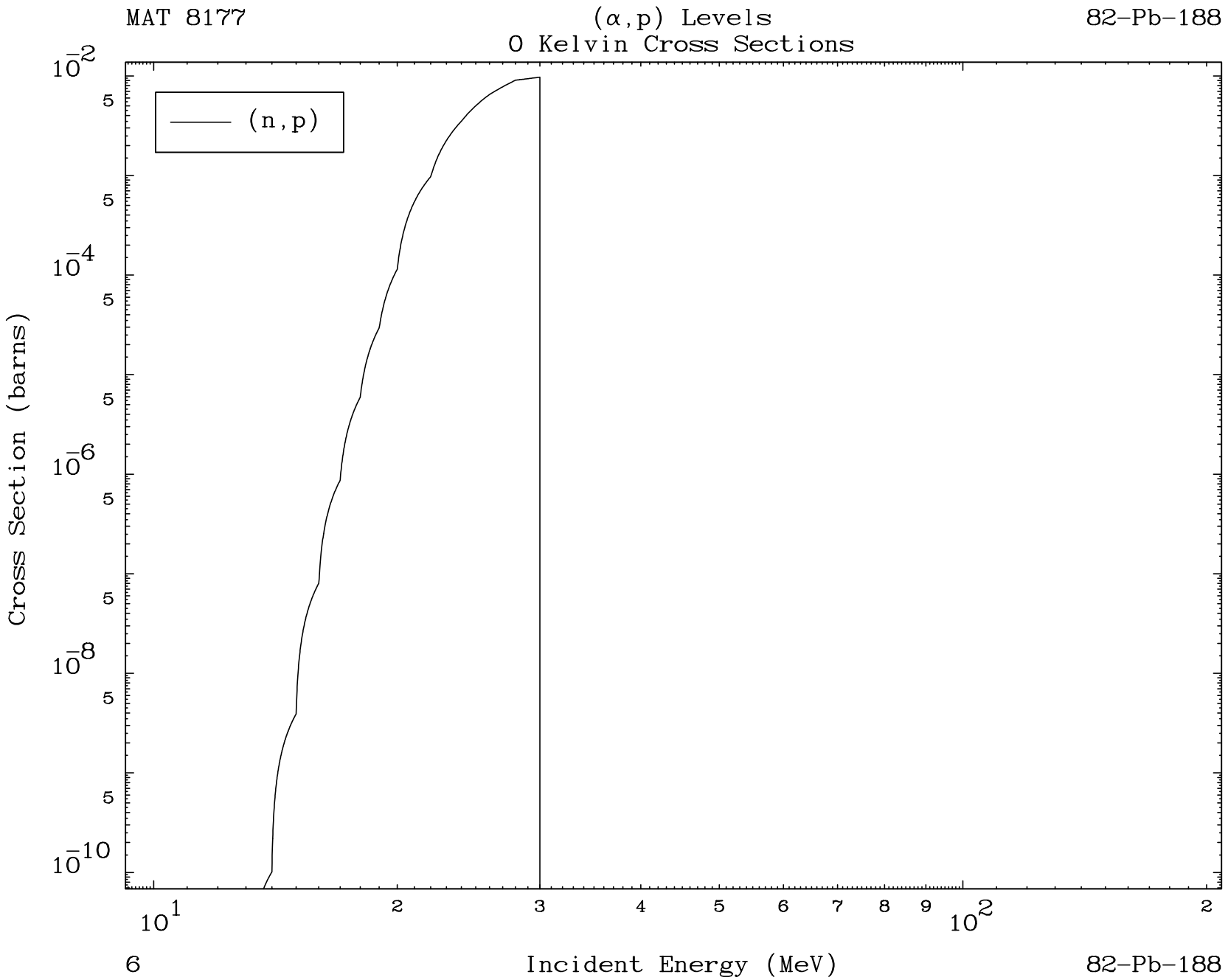

MAT 8177
α Major
82-Pb-188
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-188

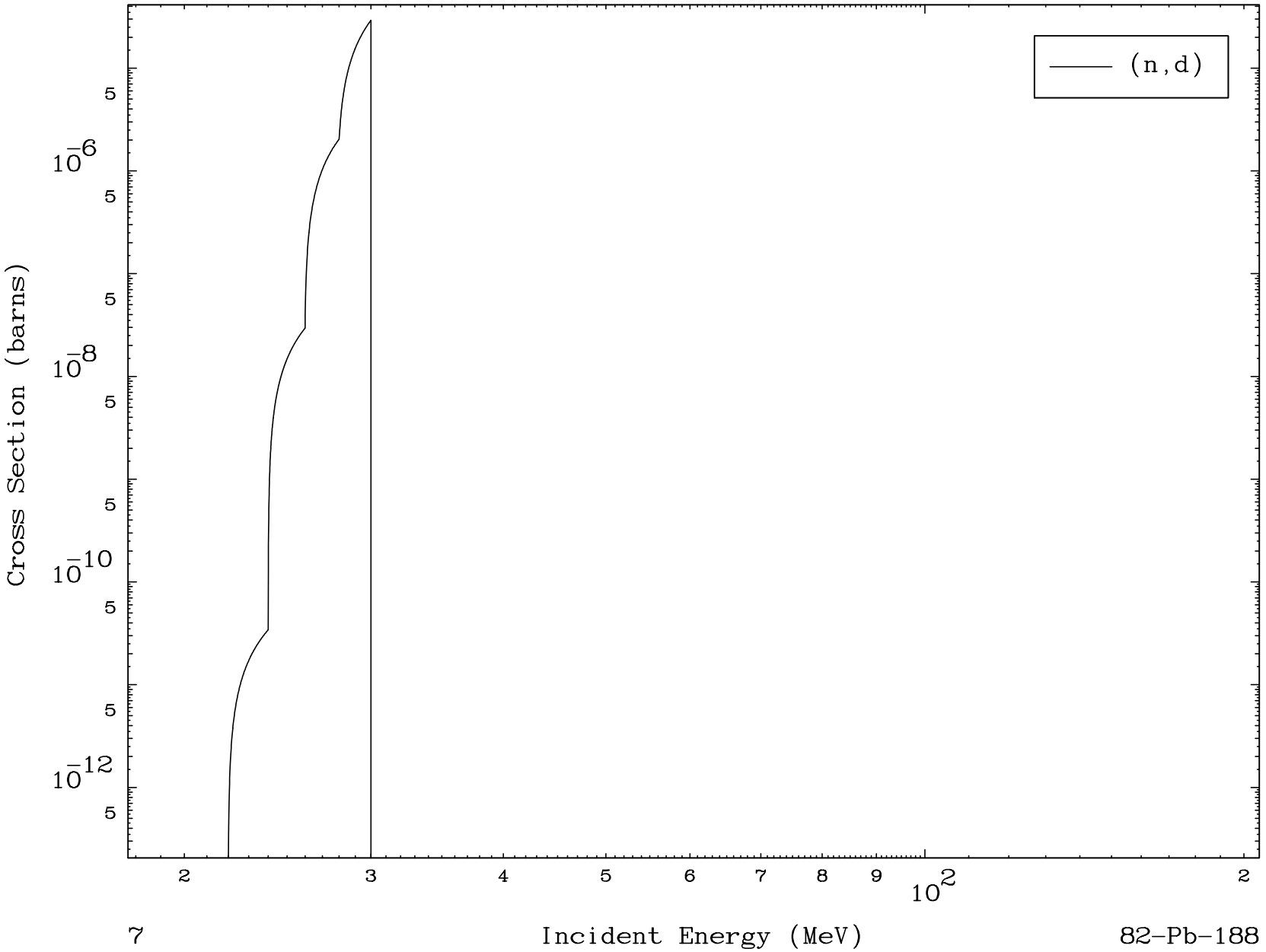

MAT 8177
α Neutron Absorption
0 Kelvin Cross Sections
82-Pb-188
(n,2n)
(n,n') α
(n,n') p
(n,n') 2α
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-188
2

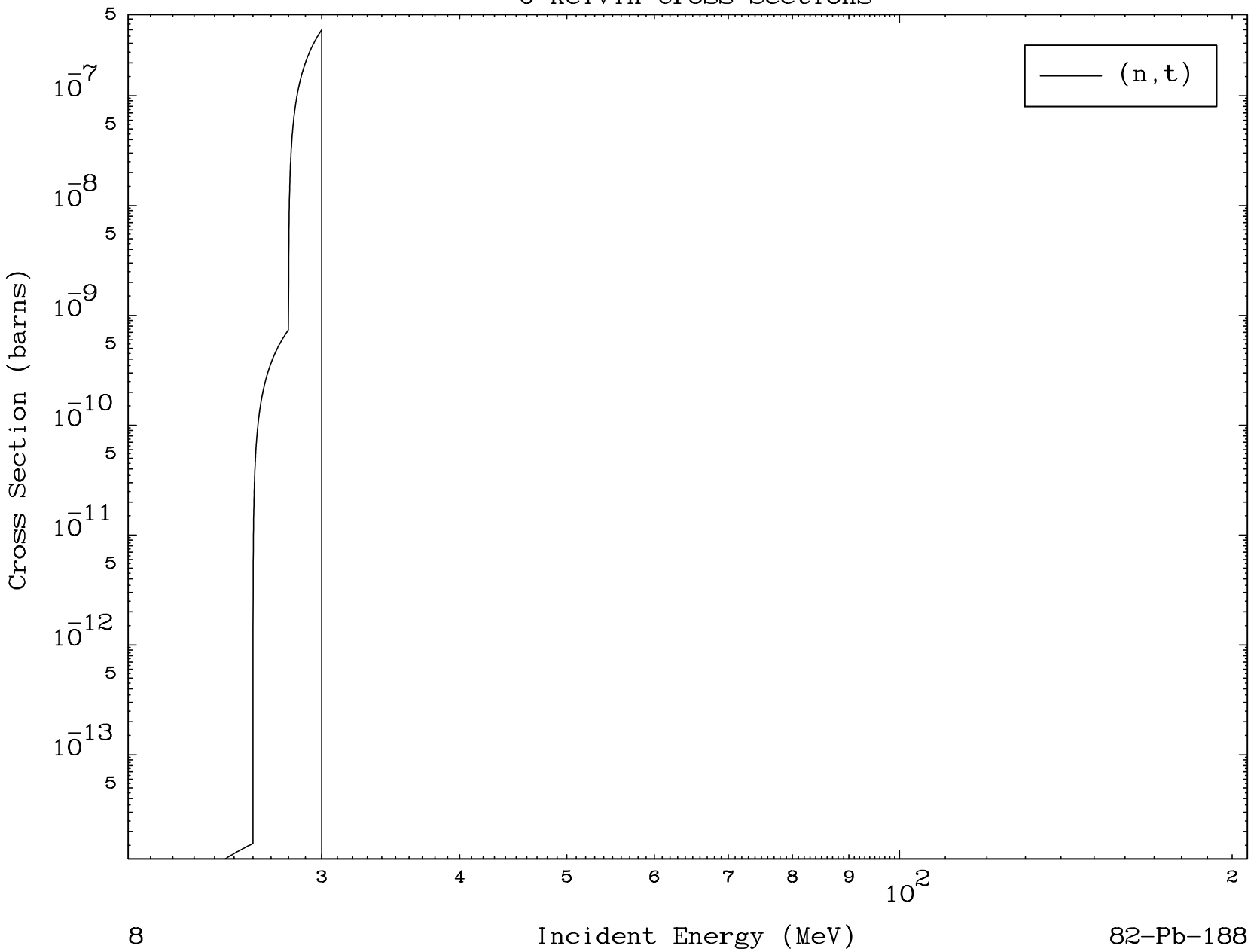

MAT 8177
α Neutron Absorption
0 Kelvin Cross Sections
82-Pb-188
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
3
82-Pb-188


MAT 8177
α Charged Particle
0 Kelvin Cross Sections
82-Pb-188
(n,n') α
(n,n') p
(n,n') 2α
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
4
82-Pb-188

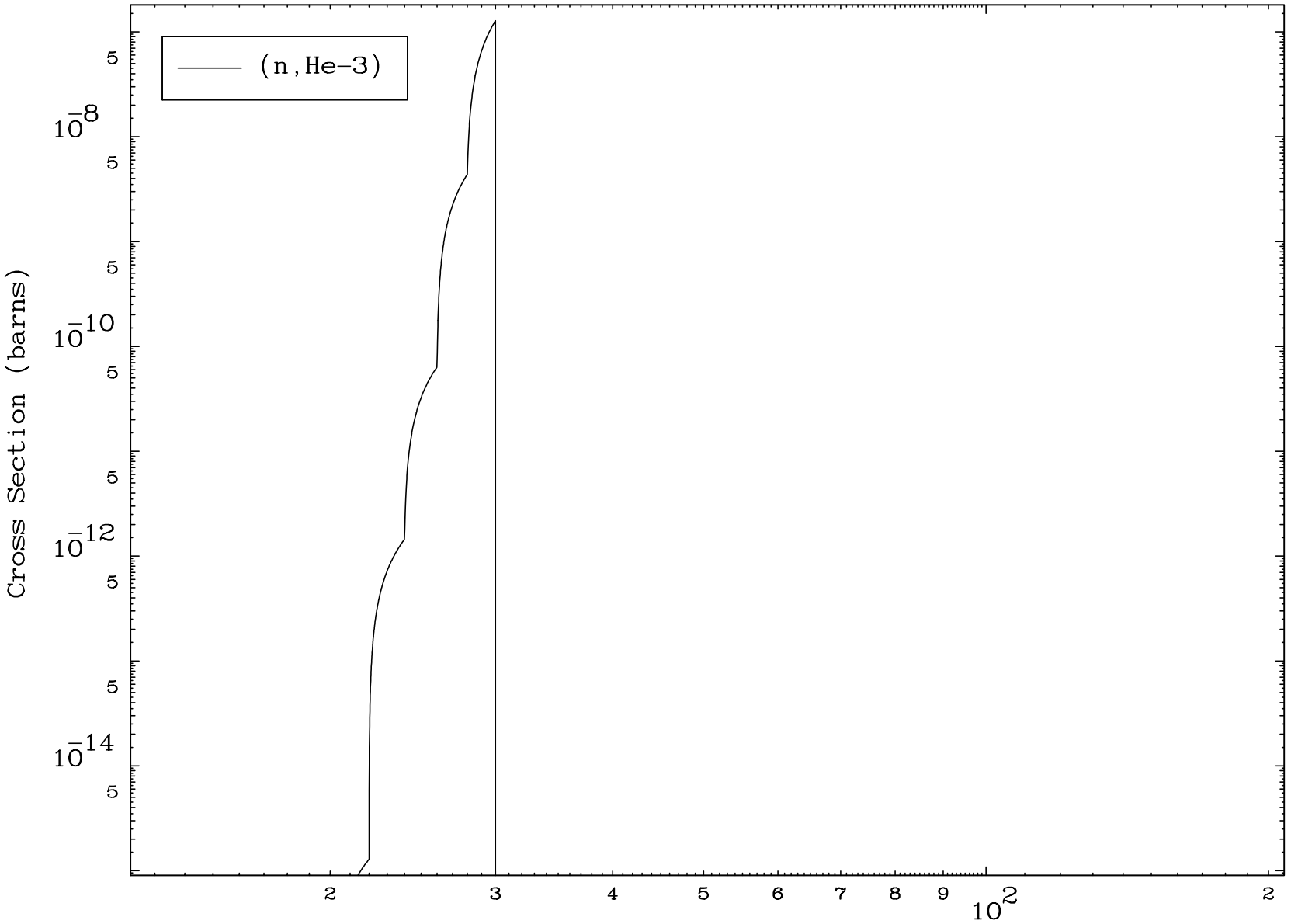

MAT 8177
α Charged Particle
0 Kelvin Cross Sections
82-Pb-188
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
82-Pb-188

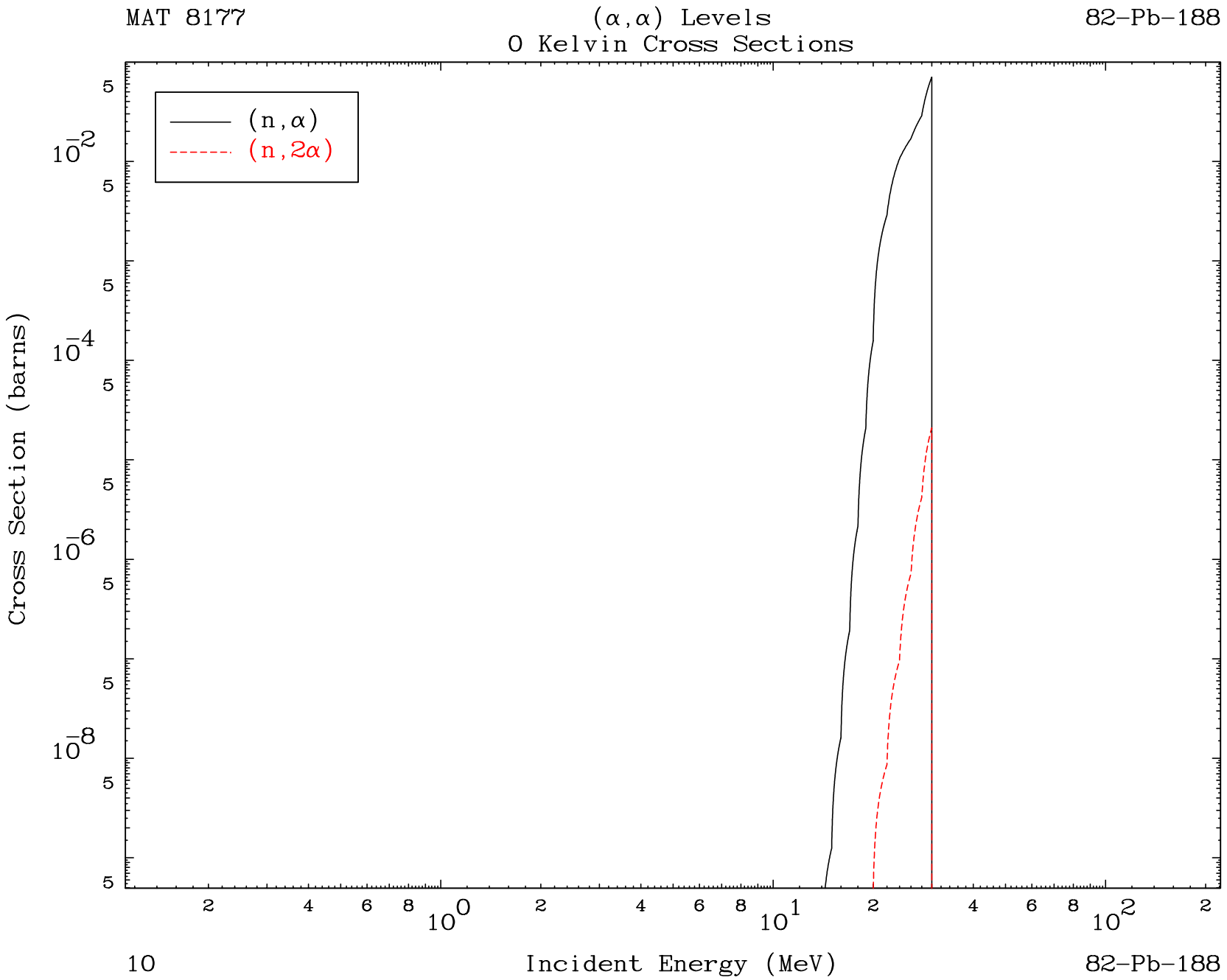

MAT 8177
(α,p) Levels
82-Pb-188
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
10-10
5
10 1
2
3
4
5
6
7
8
9
10 2
2
6
Incident Energy (MeV)
82-Pb-188

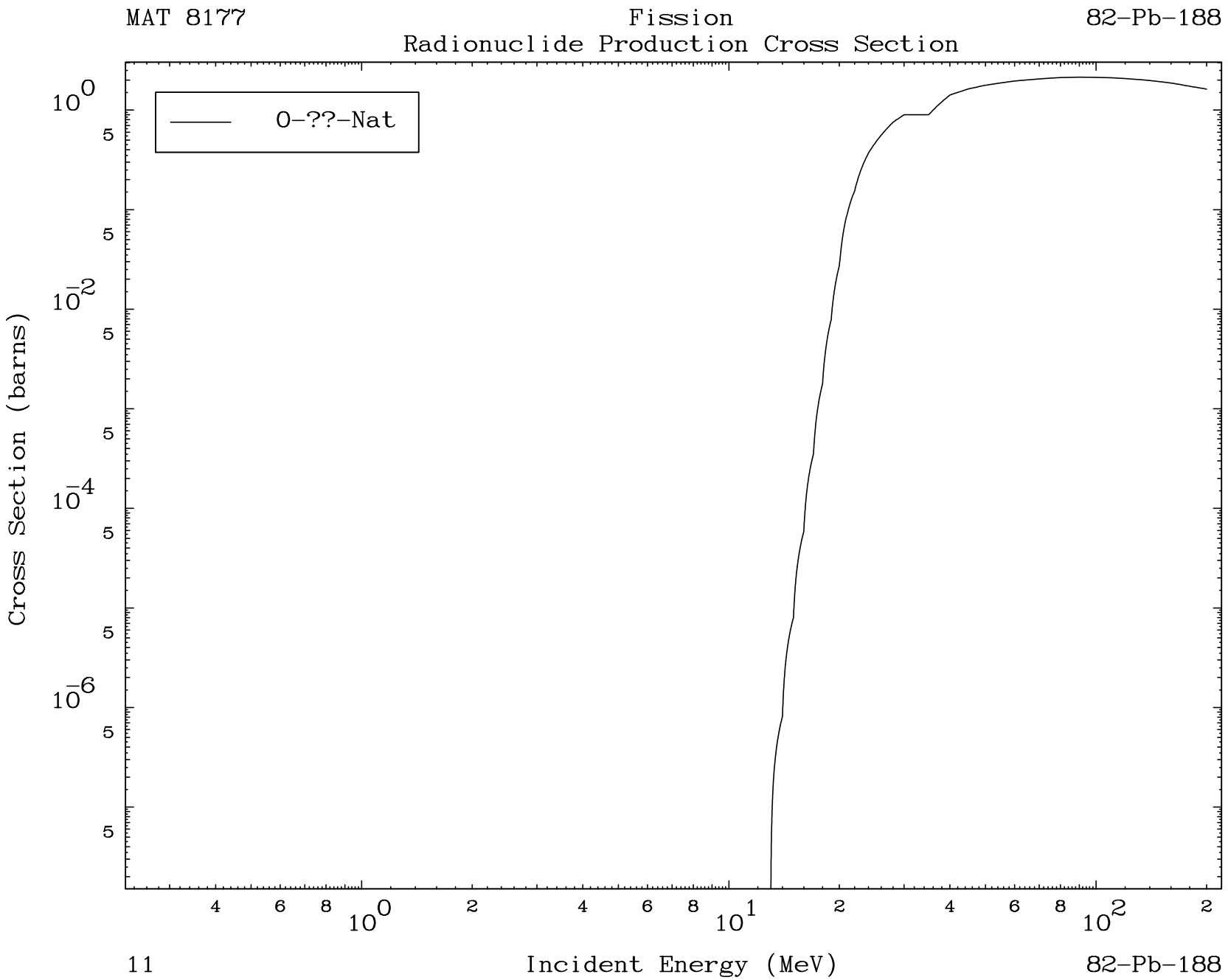

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

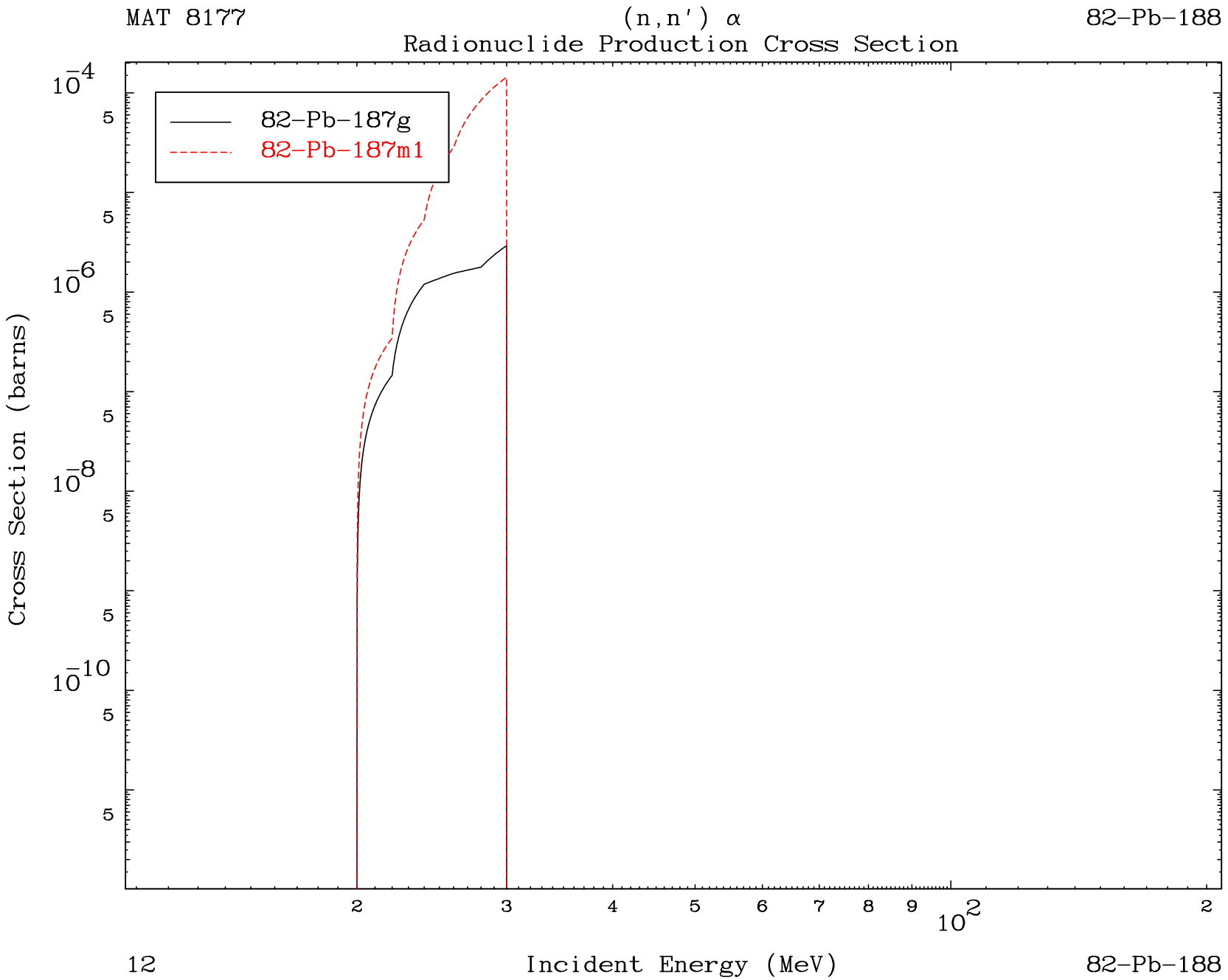

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-7
10^-8
10^-9
10^-10
10^-11
10^-12
10^-13
5
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

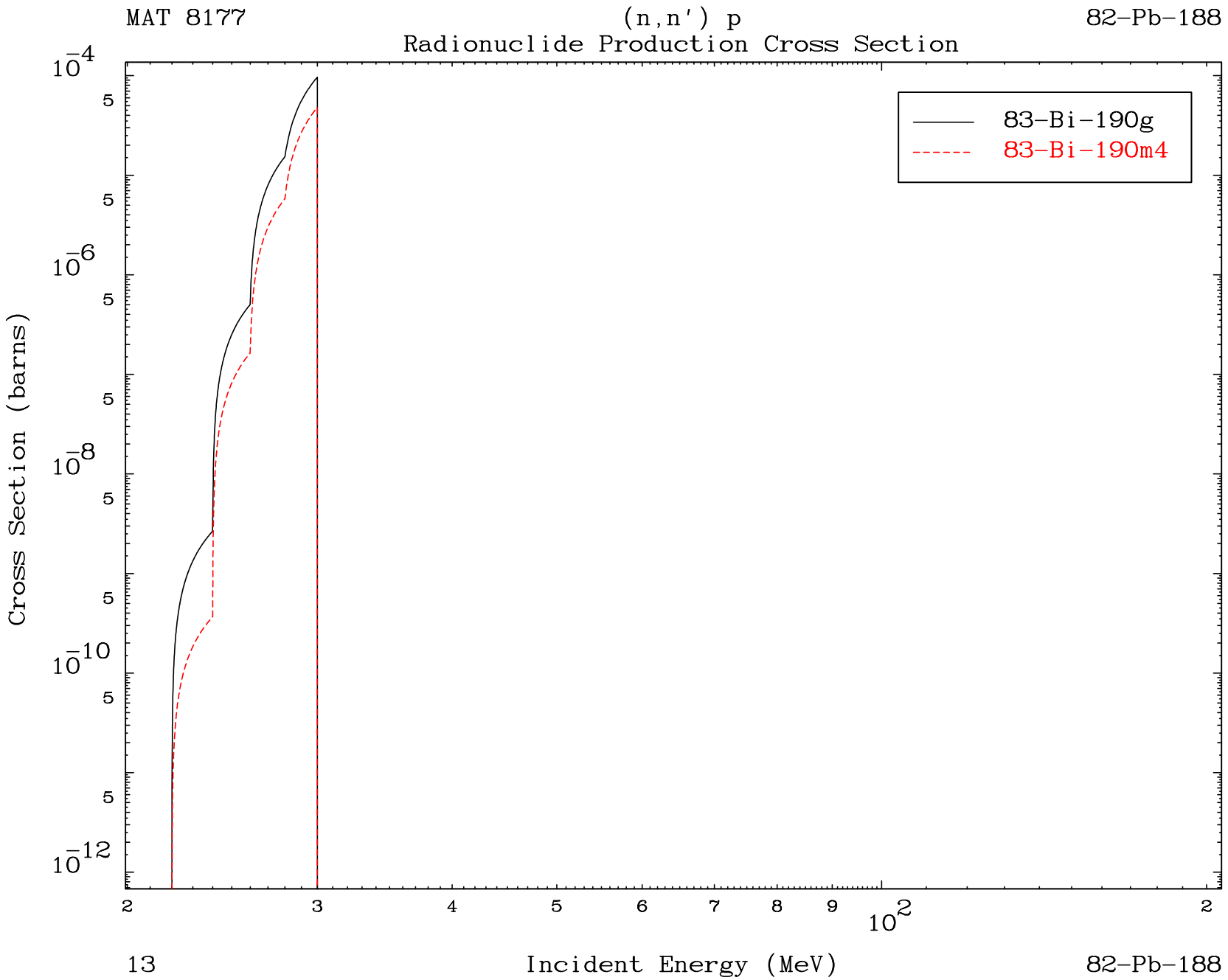
0 Kelvin Cross Sections

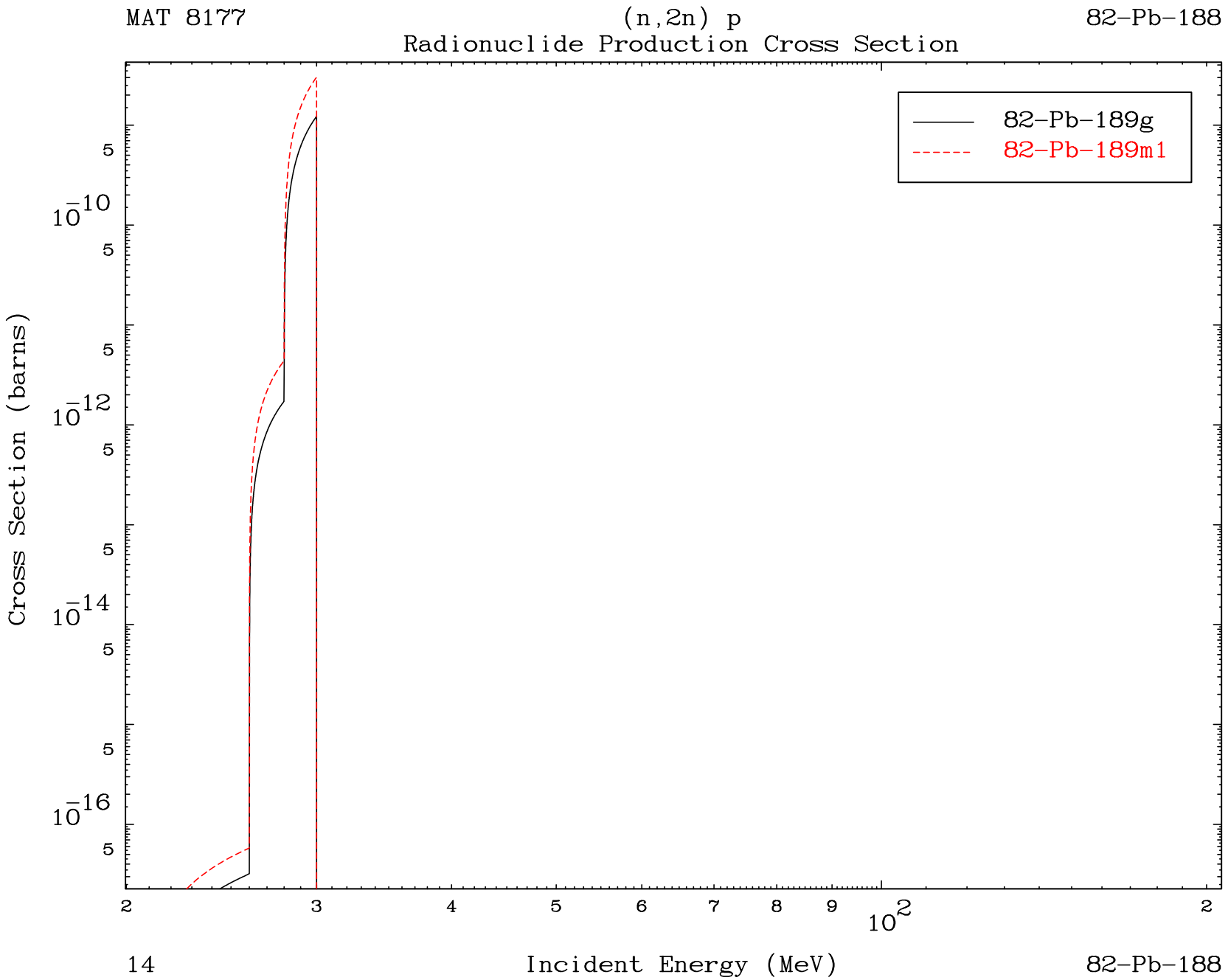


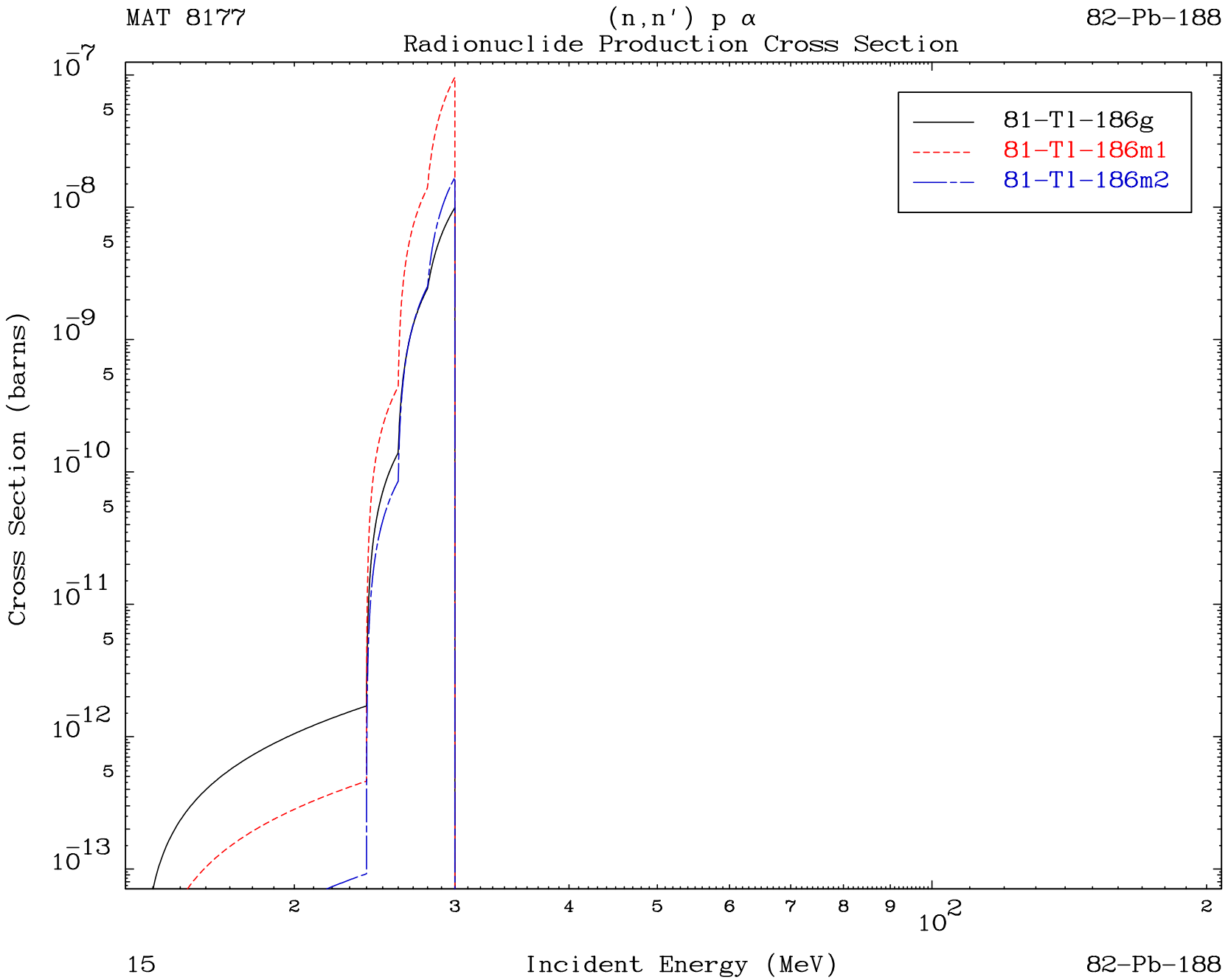

MAT 8177
(α,α) Levels
82-Pb-188
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10
Incident Energy (MeV)
82-Pb-188

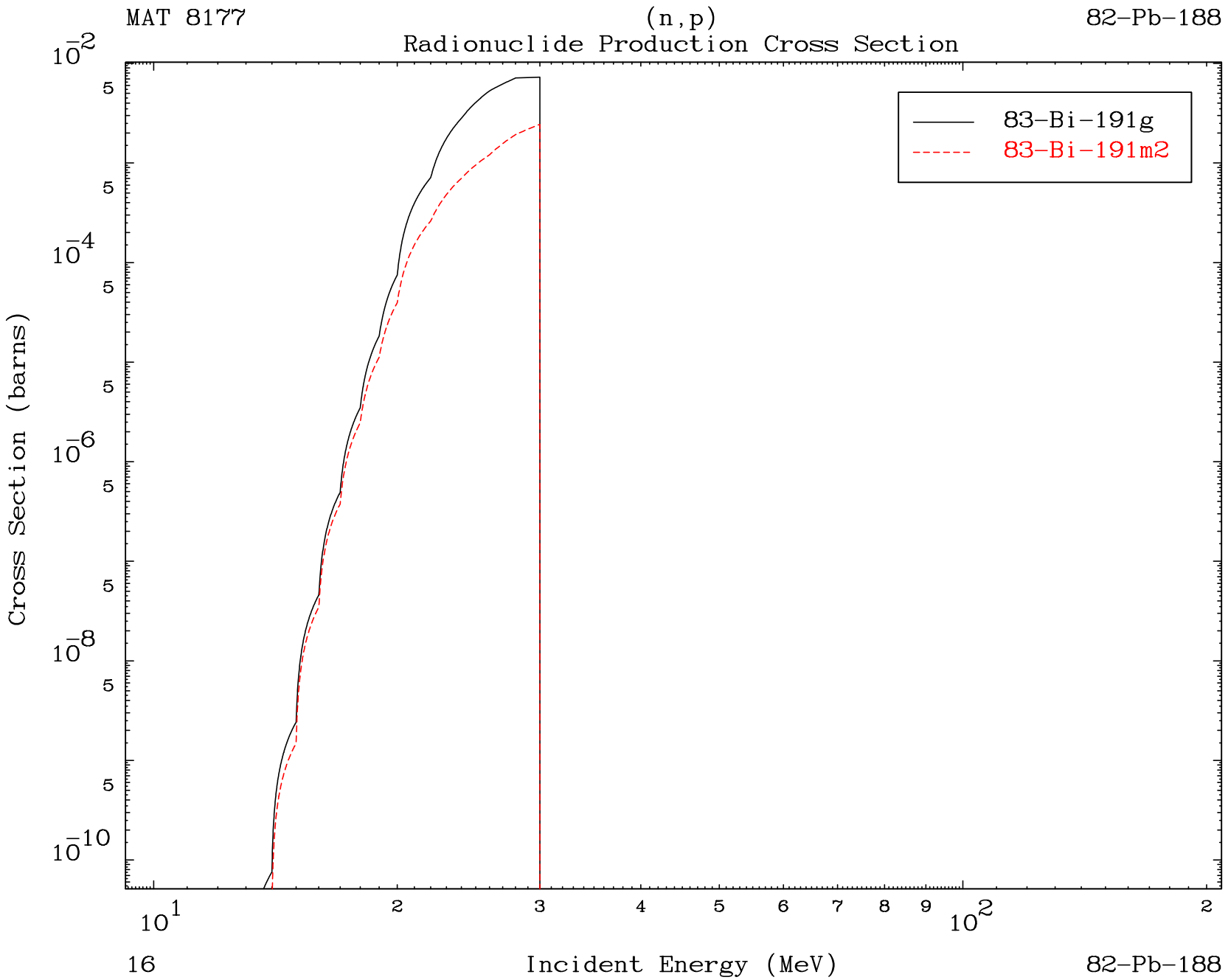

MAT 8177
Fission
82-Pb-188
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
5
4 6 8 10^0 2 4 6 8 10^1 2 4 6 8 10^2 2
Incident Energy (MeV)
11
82-Pb-188

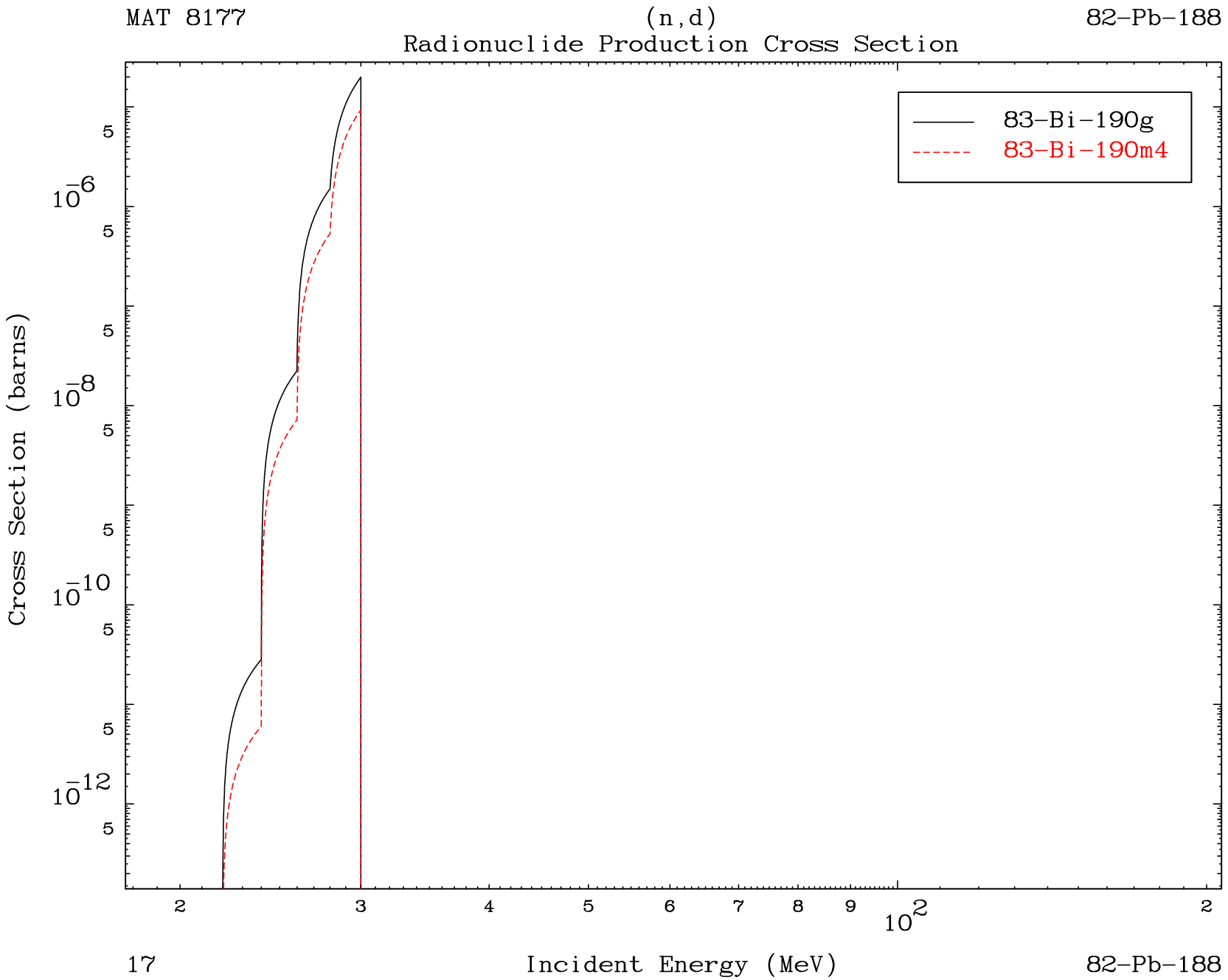

MAT 8177
(n,n') α
82-Pb-188
Radionuclide Production Cross Section
82-Pb-187g
82-Pb-187m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
82-Pb-188

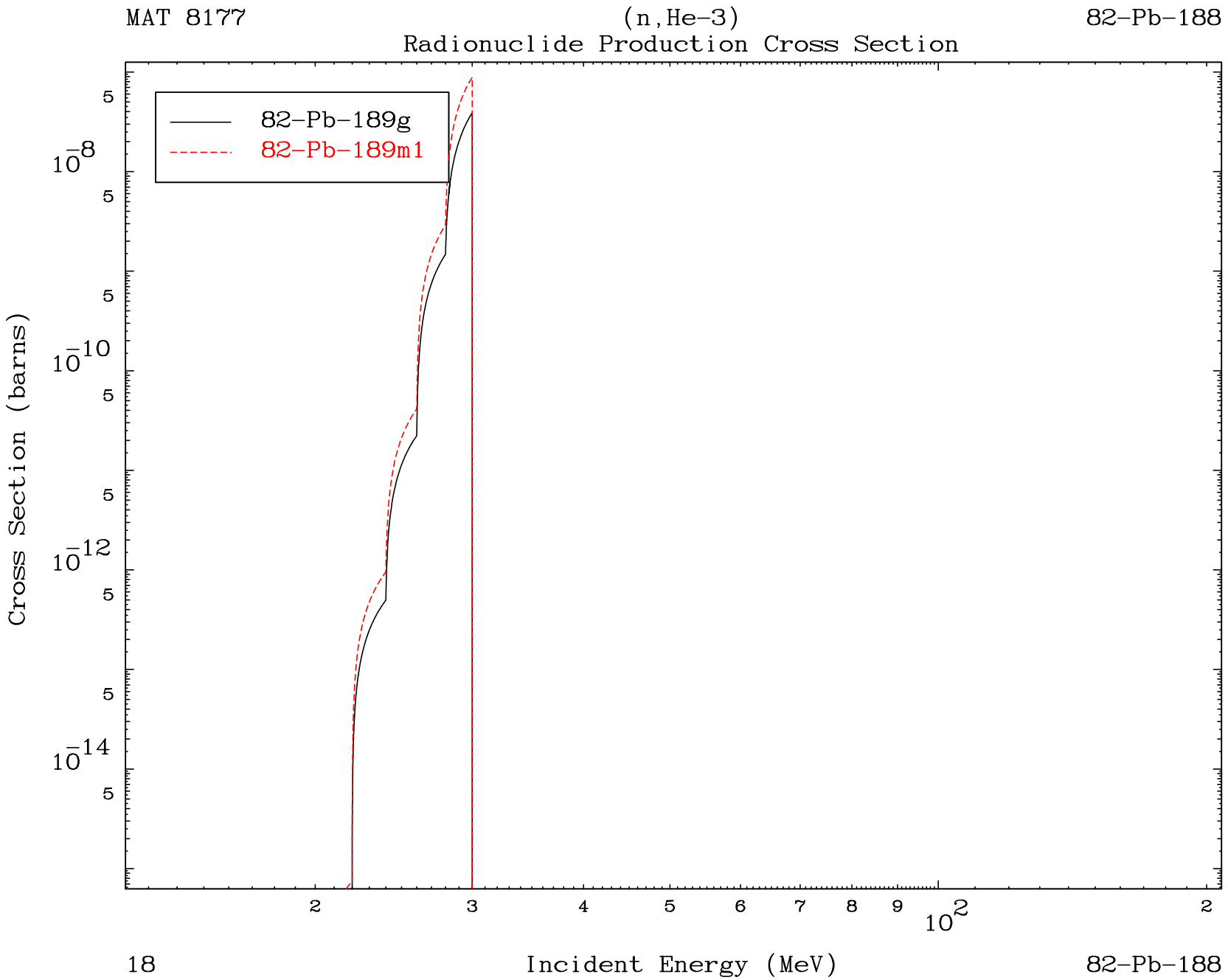

MAT 8177
(n,n') p
82-Pb-188
Radionuclide Production Cross Section
83-Bi-190g
83-Bi-190m4
Cross Section (barns)
Incident Energy (MeV)
13
82-Pb-188

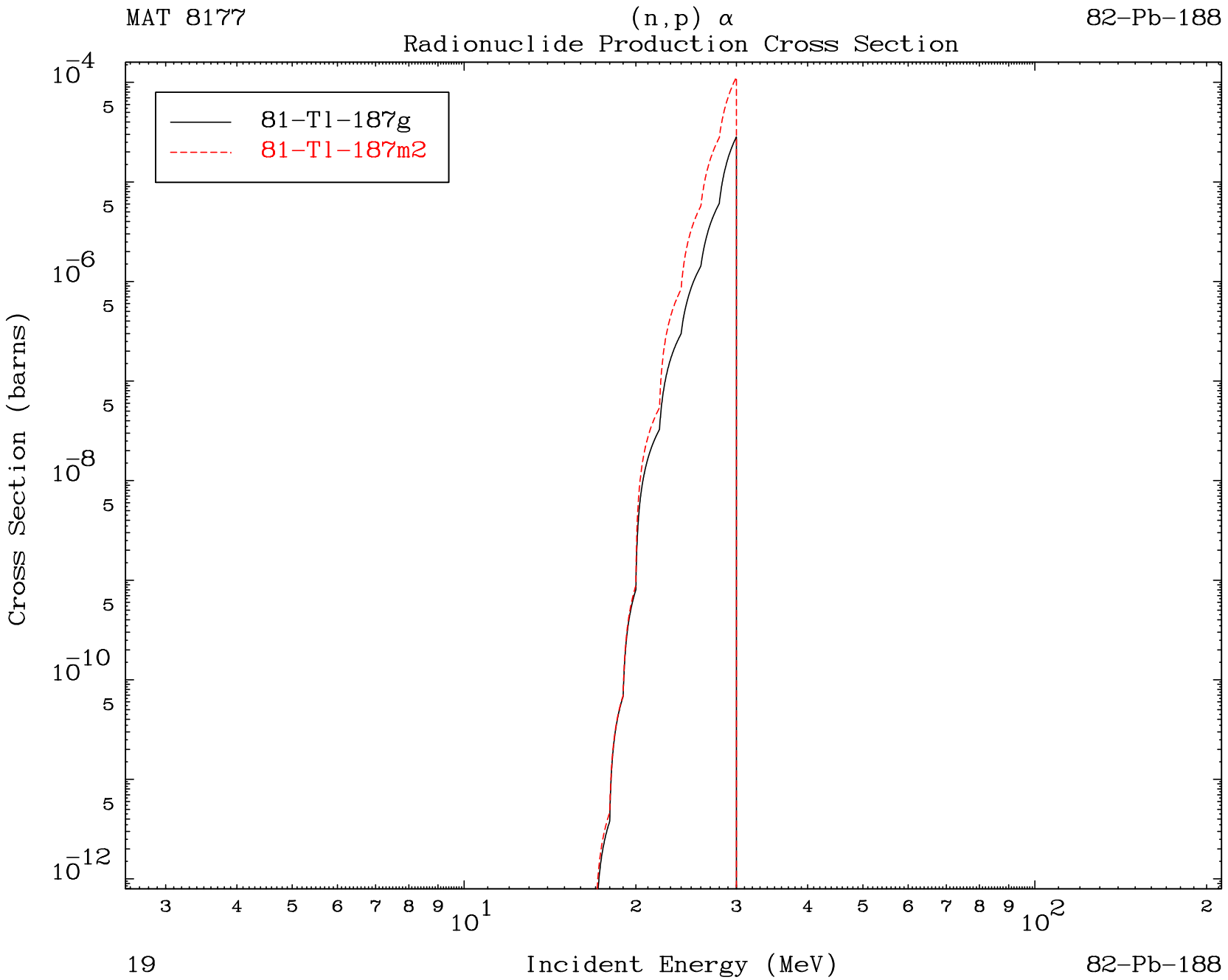

MAT 8177
(n,2n) p
82-Pb-188
Radionuclide Production Cross Section
82-Pb-189g
82-Pb-189m1
Cross Section (barns)
10-10
10-12
10-14
10-16
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
82-Pb-188

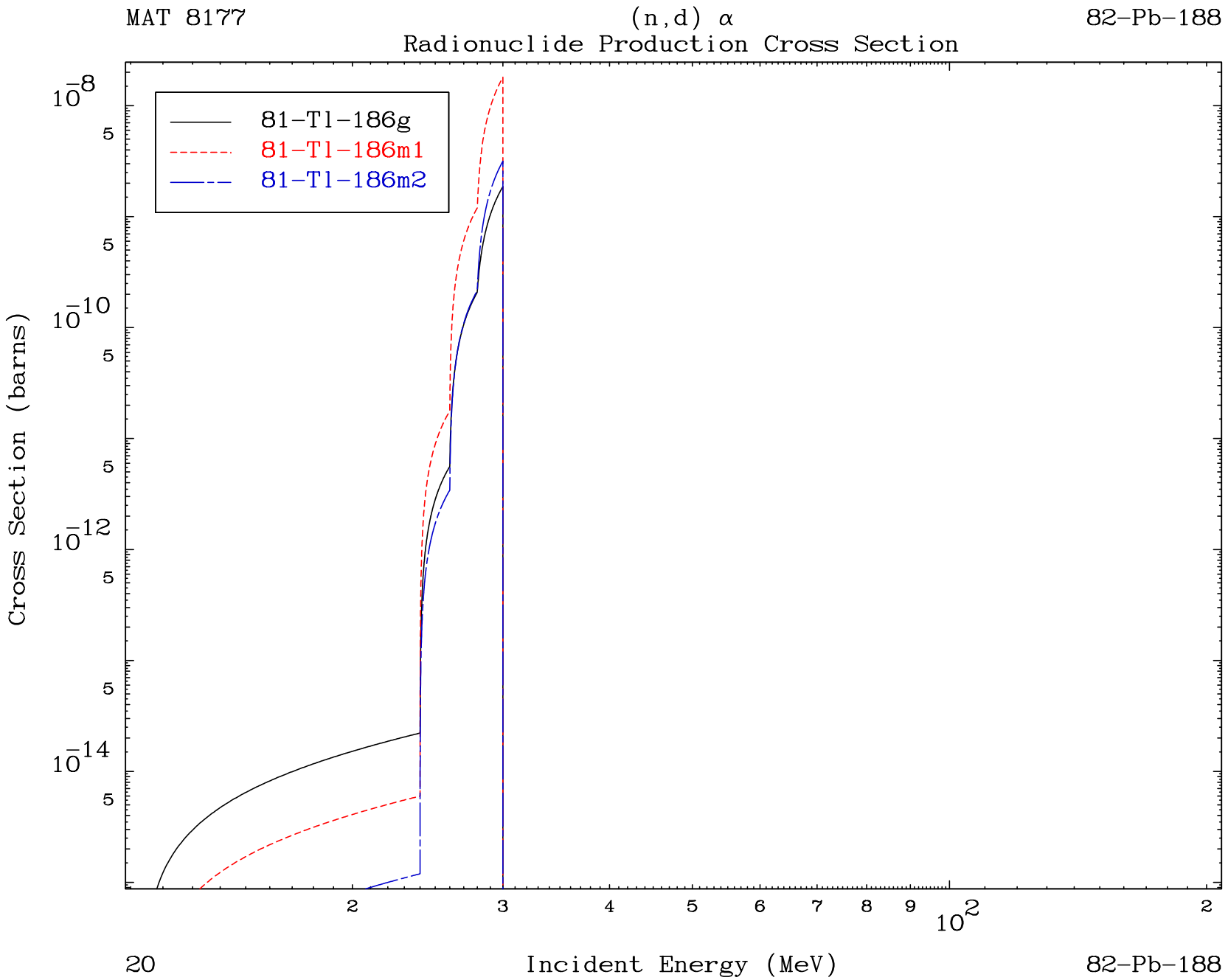

MAT 8177
(n,n') p α
82-Pb-188
Radionuclide Production Cross Section
81-Tl-186g
81-Tl-186m1
81-Tl-186m2
Cross Section (barns)
Incident Energy (MeV)
15
82-Pb-188


MAT 8177
(n,p)
82-Pb-188
Radionuclide Production Cross Section
83-Bi-191g
83-Bi-191m2
Cross Section (barns)
Incident Energy (MeV)
82-Pb-188
16


MAT 8177
(n,d)
82-Pb-188
Radionuclide Production Cross Section
83-Bi-190g
83-Bi-190m4
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
82-Pb-188


MAT 8177
(n,He-3)
82-Pb-188
Radionuclide Production Cross Section
82-Pb-189g
82-Pb-189m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
82-Pb-188


MAT 8177
(n,p) α
82-Pb-188
Radionuclide Production Cross Section
81-Tl-187g
81-Tl-187m2
Cross Section (barns)
Incident Energy (MeV)
19
82-Pb-188


MAT 8177
(n,d) α
82-Pb-188
Radionuclide Production Cross Section
81-Tl-186g
81-Tl-186m1
81-Tl-186m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
20
Incident Energy (MeV)
82-Pb-188