Program EVALPLOT
(Version 2018-1)
by
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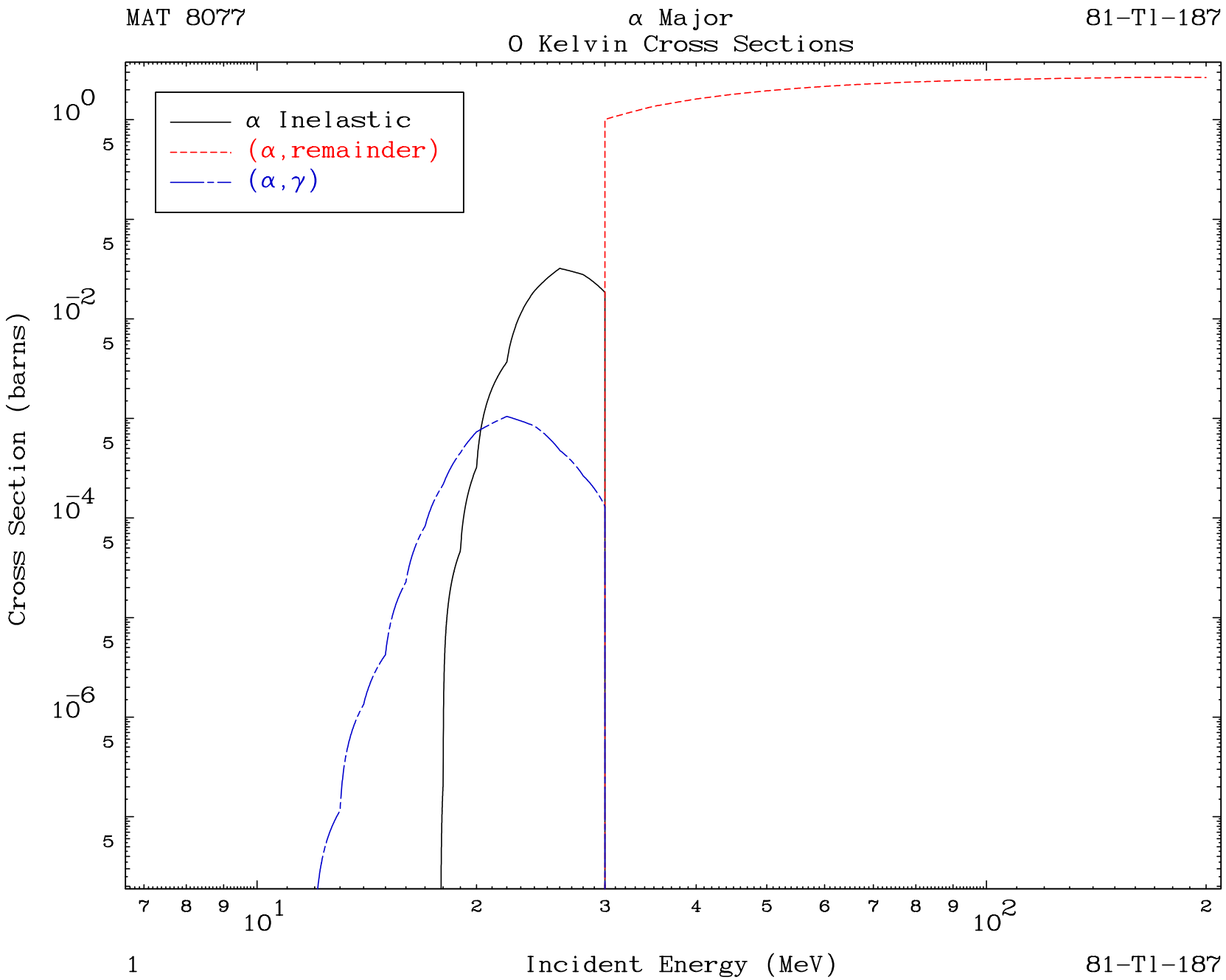
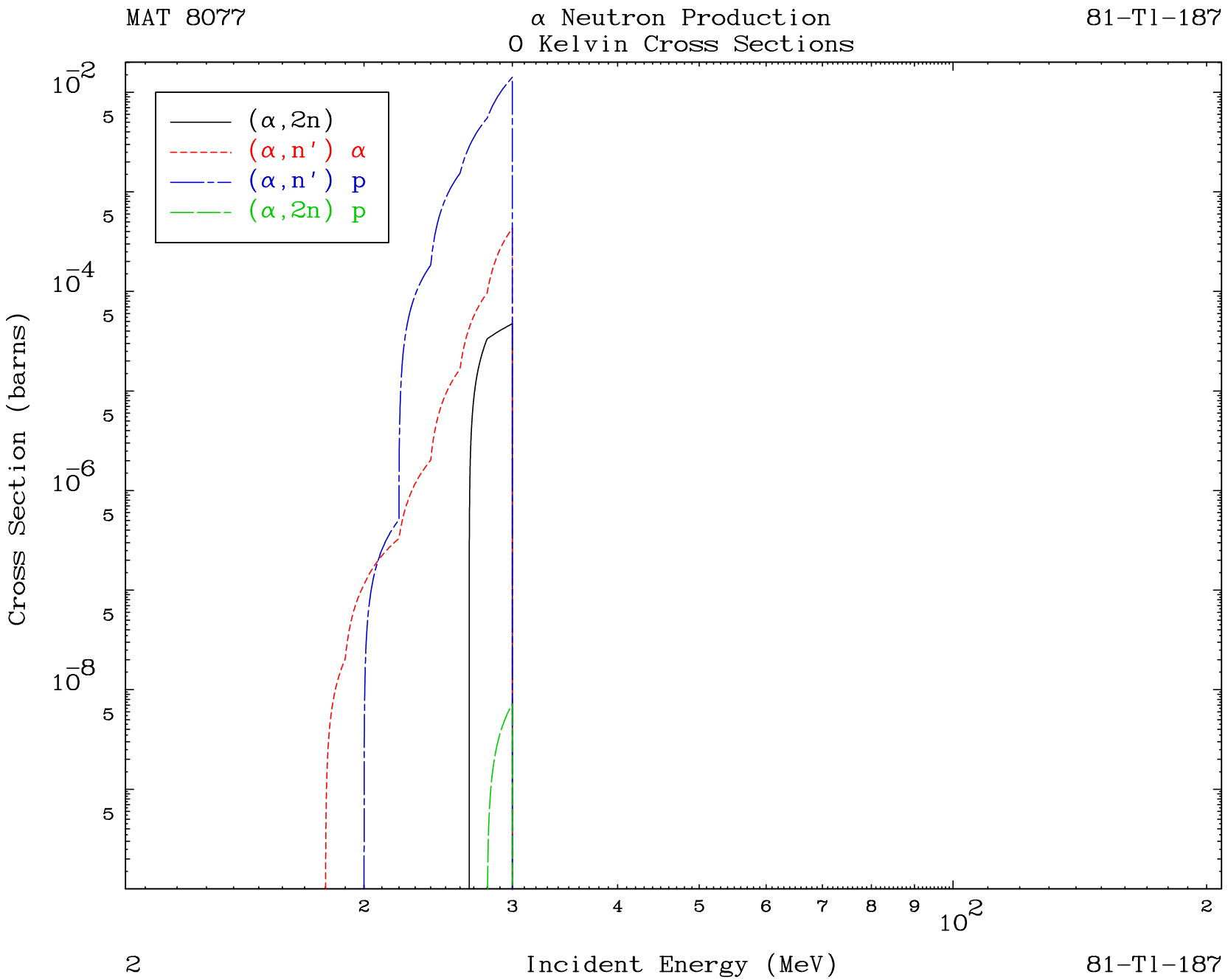
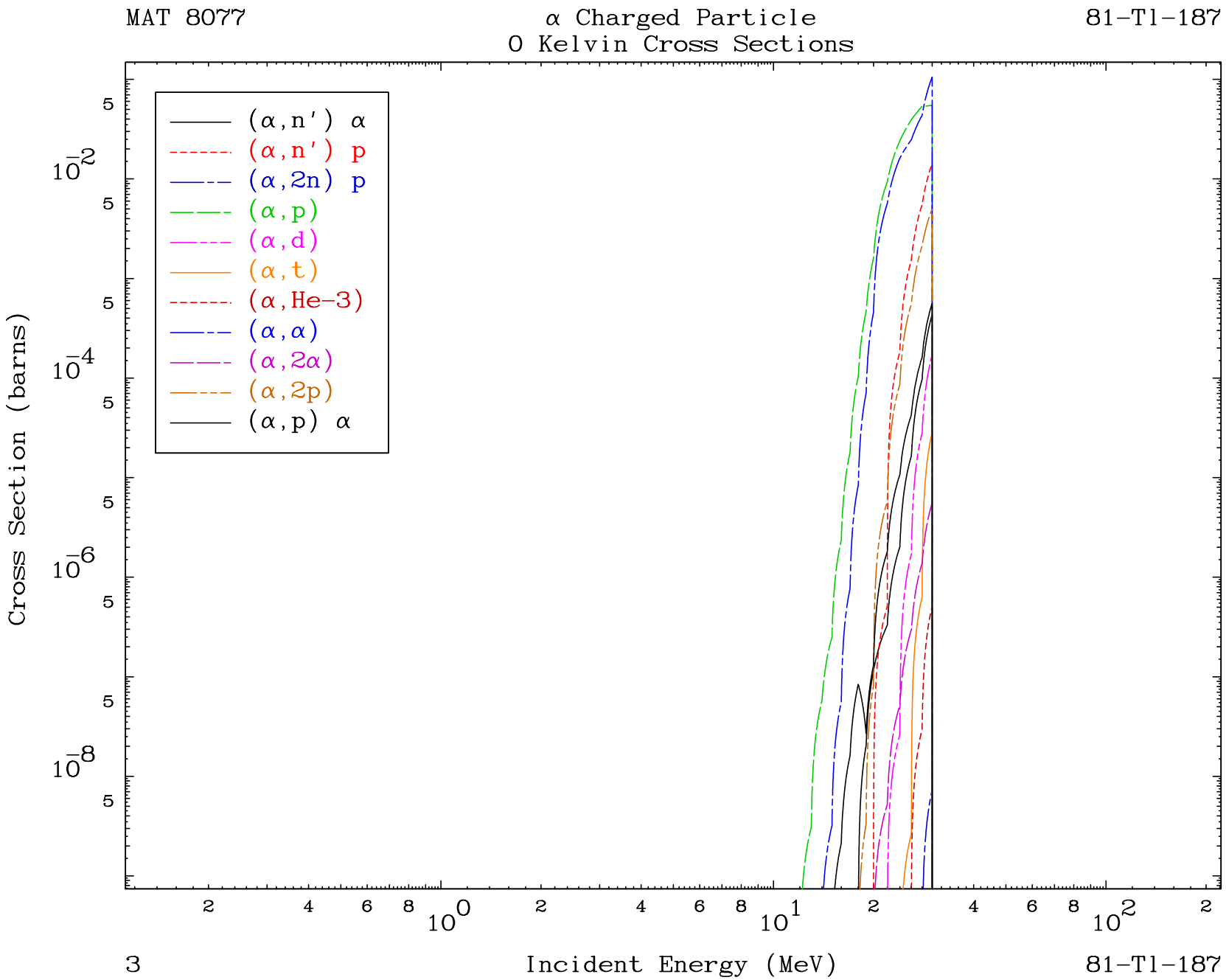
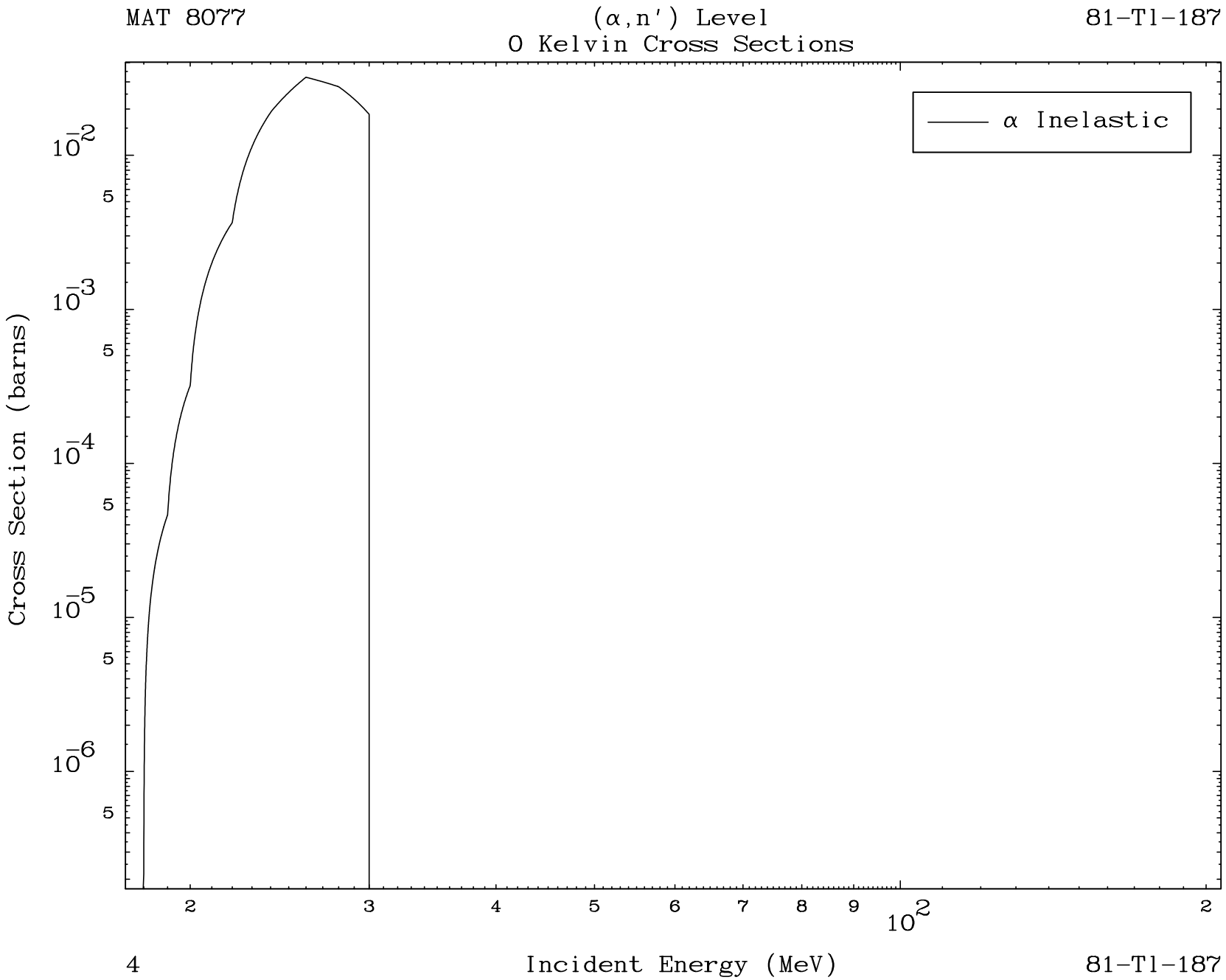
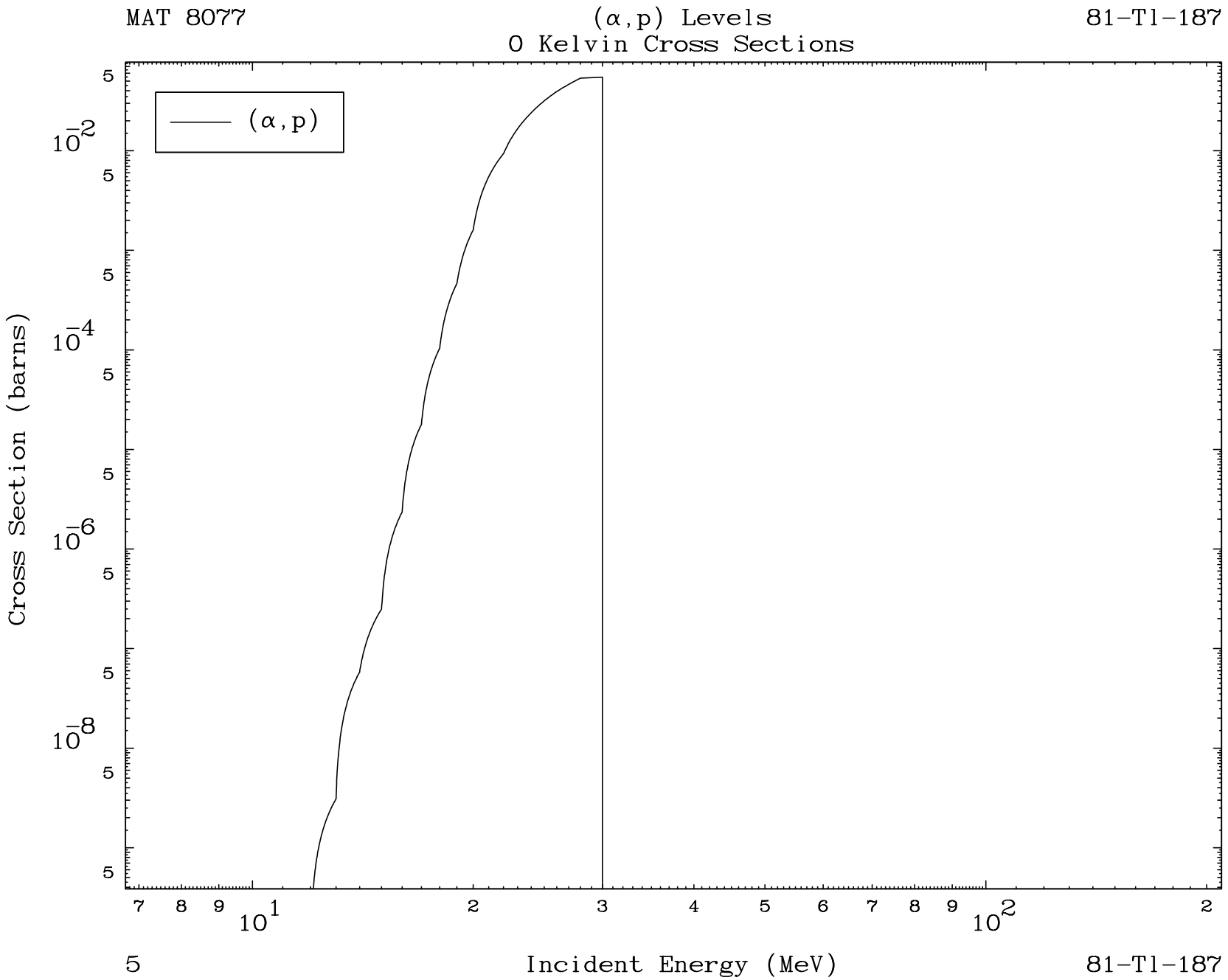
Press Mouse Button to Start

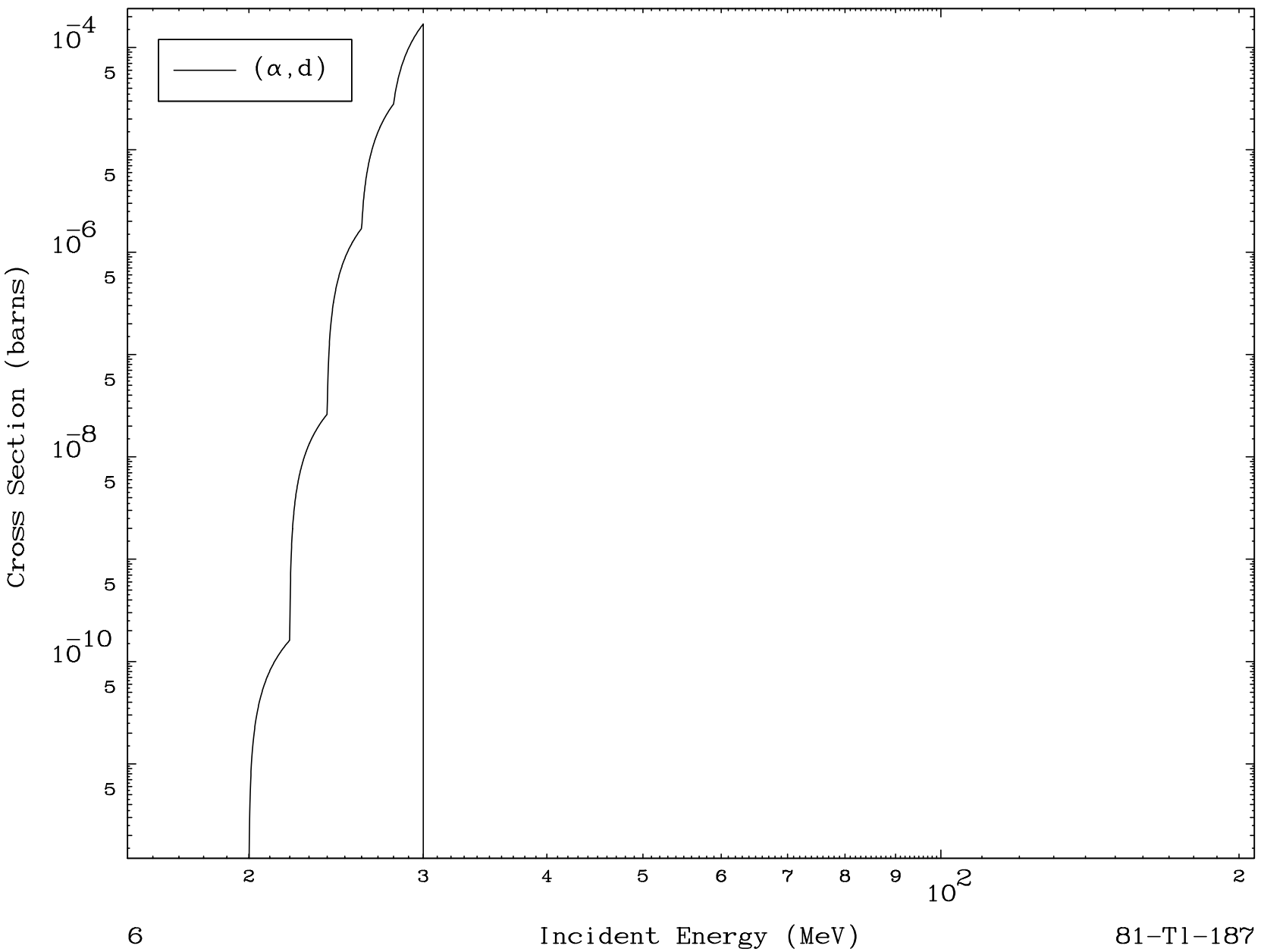

MAT 8077
α Major
81-Tl-187
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
81-Tl-187

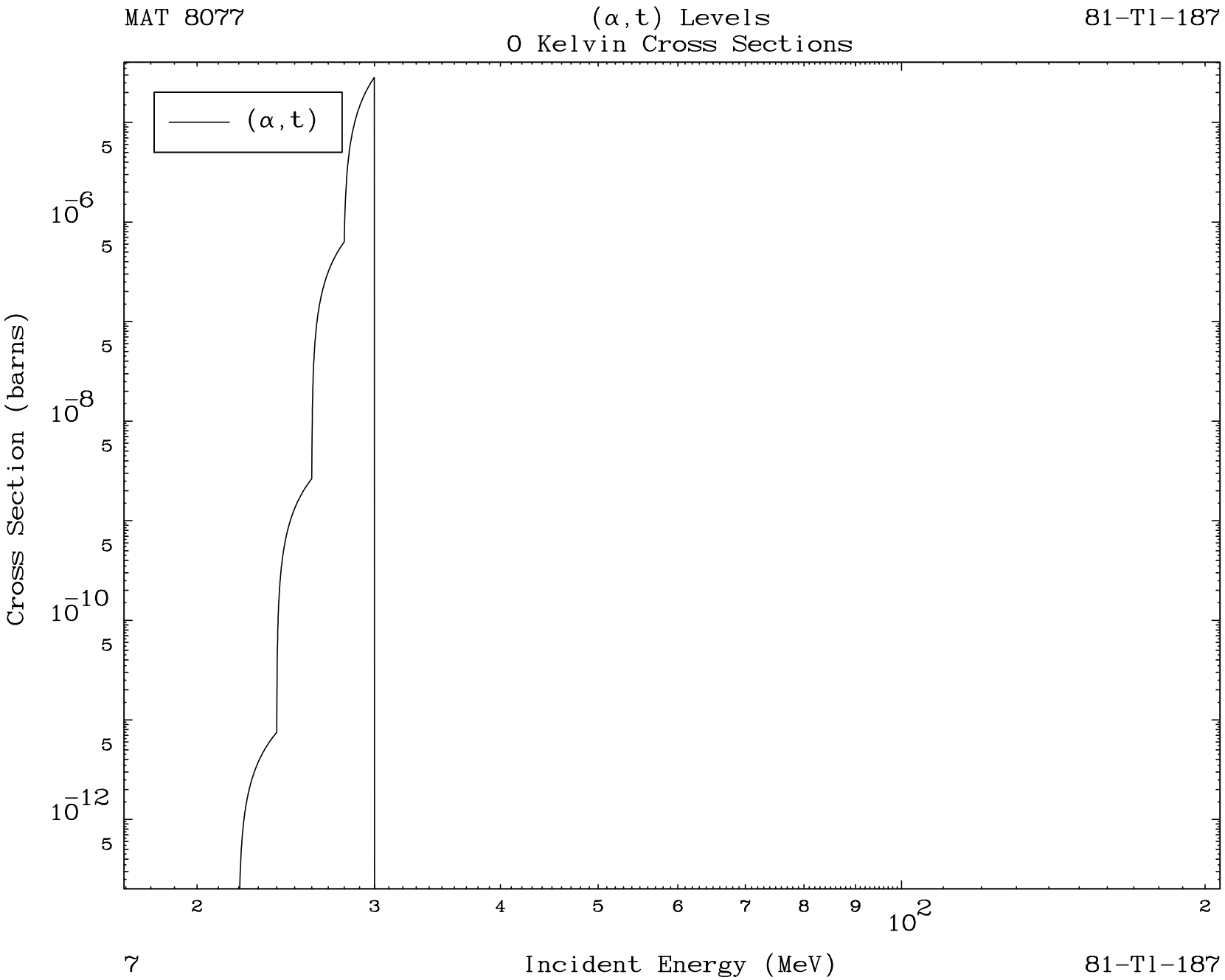

MAT 8077
α Neutron Production
0 Kelvin Cross Sections
81-Tl-187
(α,2n)
(α,n') α
(α,n') p
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
81-Tl-187

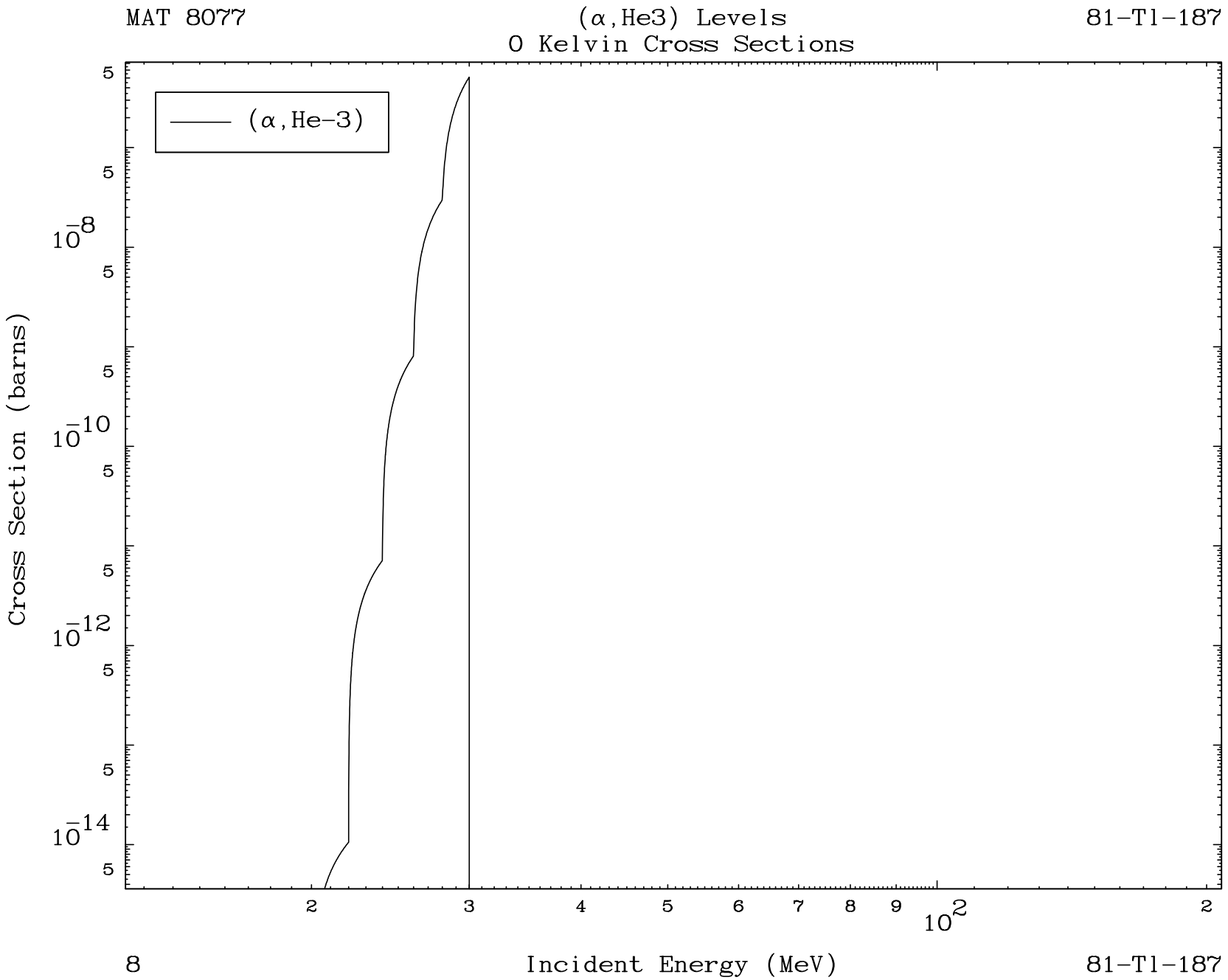

MAT 8077
α Charged Particle
0 Kelvin Cross Sections
81-Tl-187
(α,n') α
(α,n') p
(α,2n) p
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
Cross Section (barns)
Incident Energy (MeV)
3
81-Tl-187

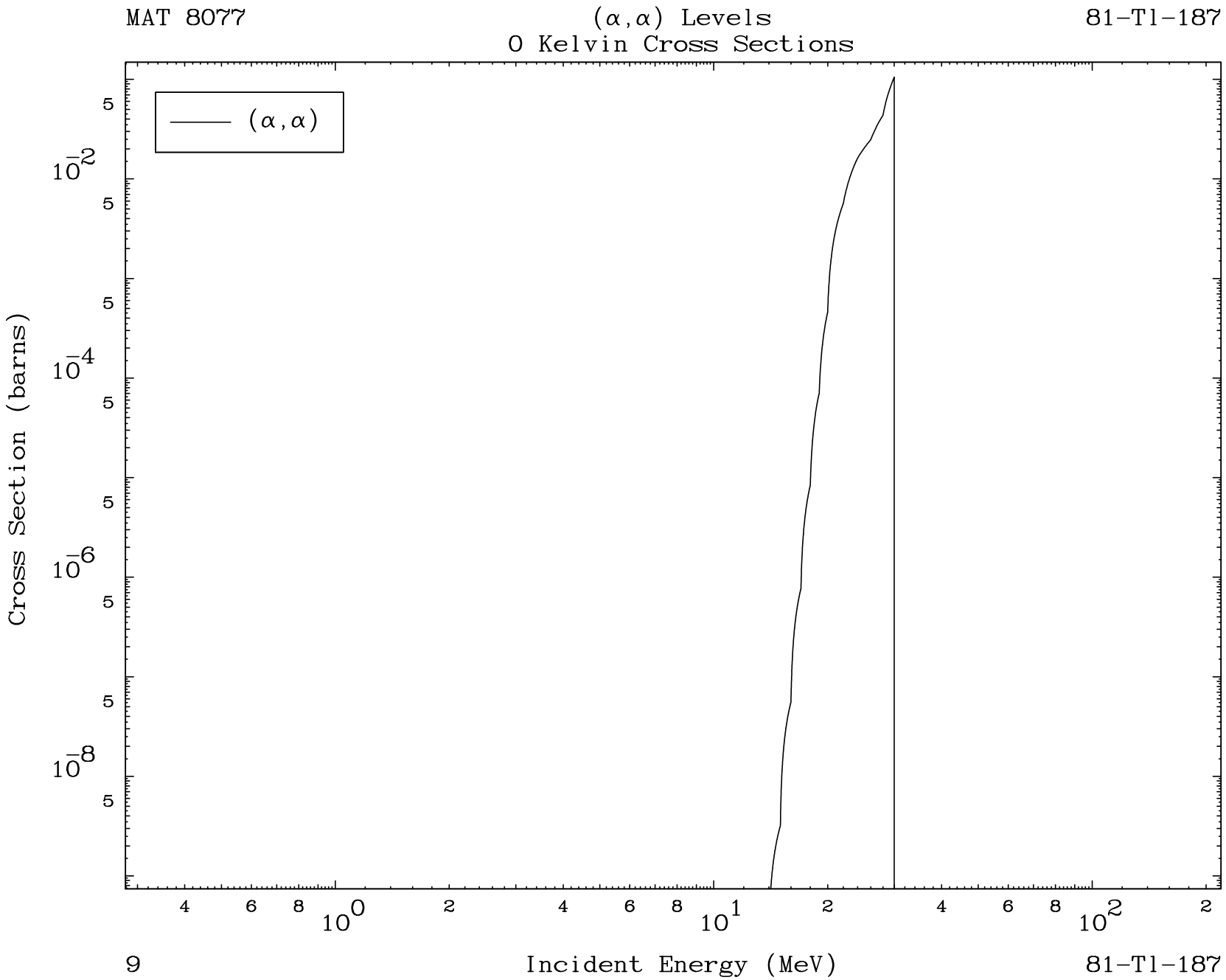

MAT 8077
(α,n') Level
81-Tl-187
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
4
81-Tl-187

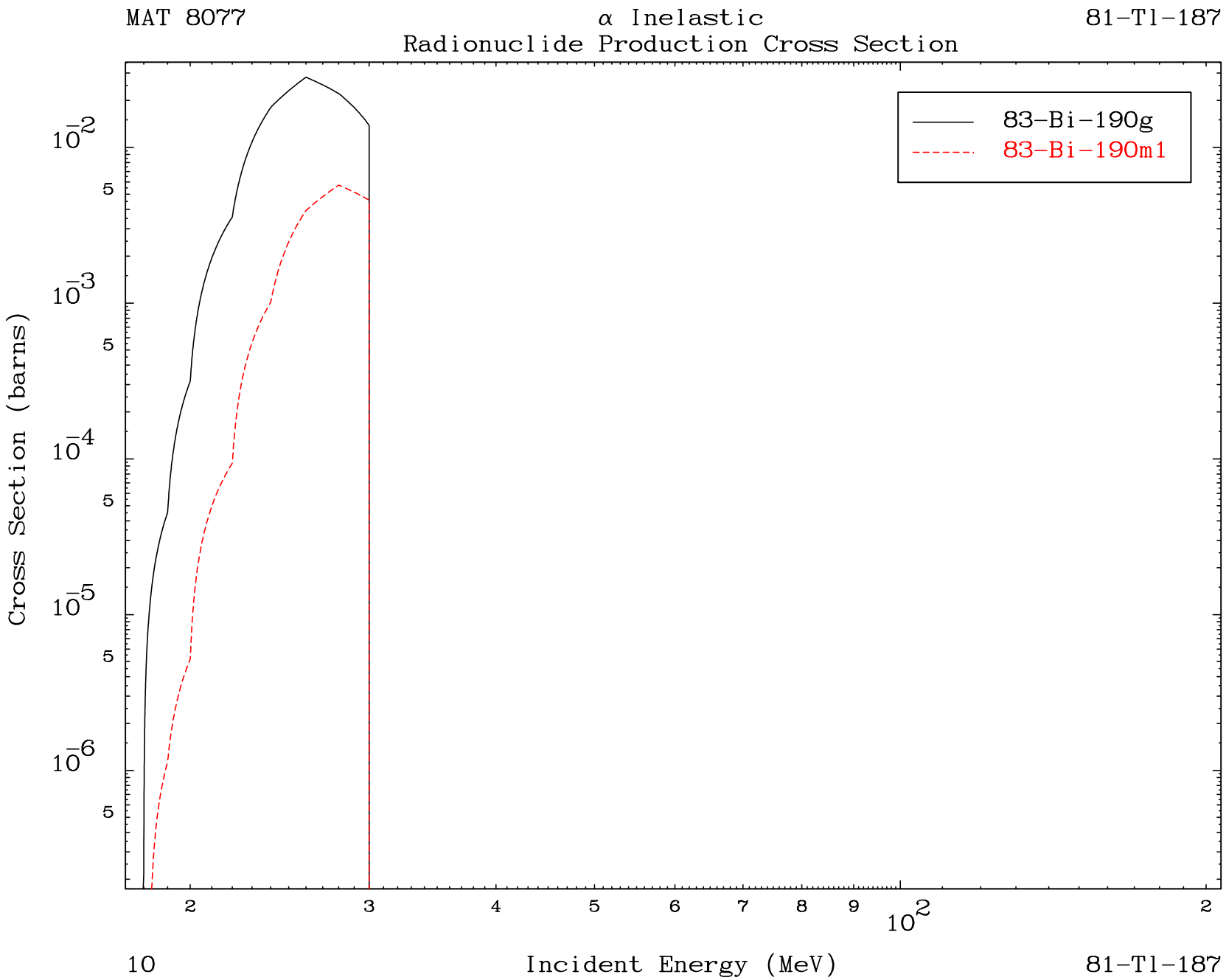

MAT 8077
(α,p) Levels
81-Tl-187
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
Incident Energy (MeV)
81-Tl-187

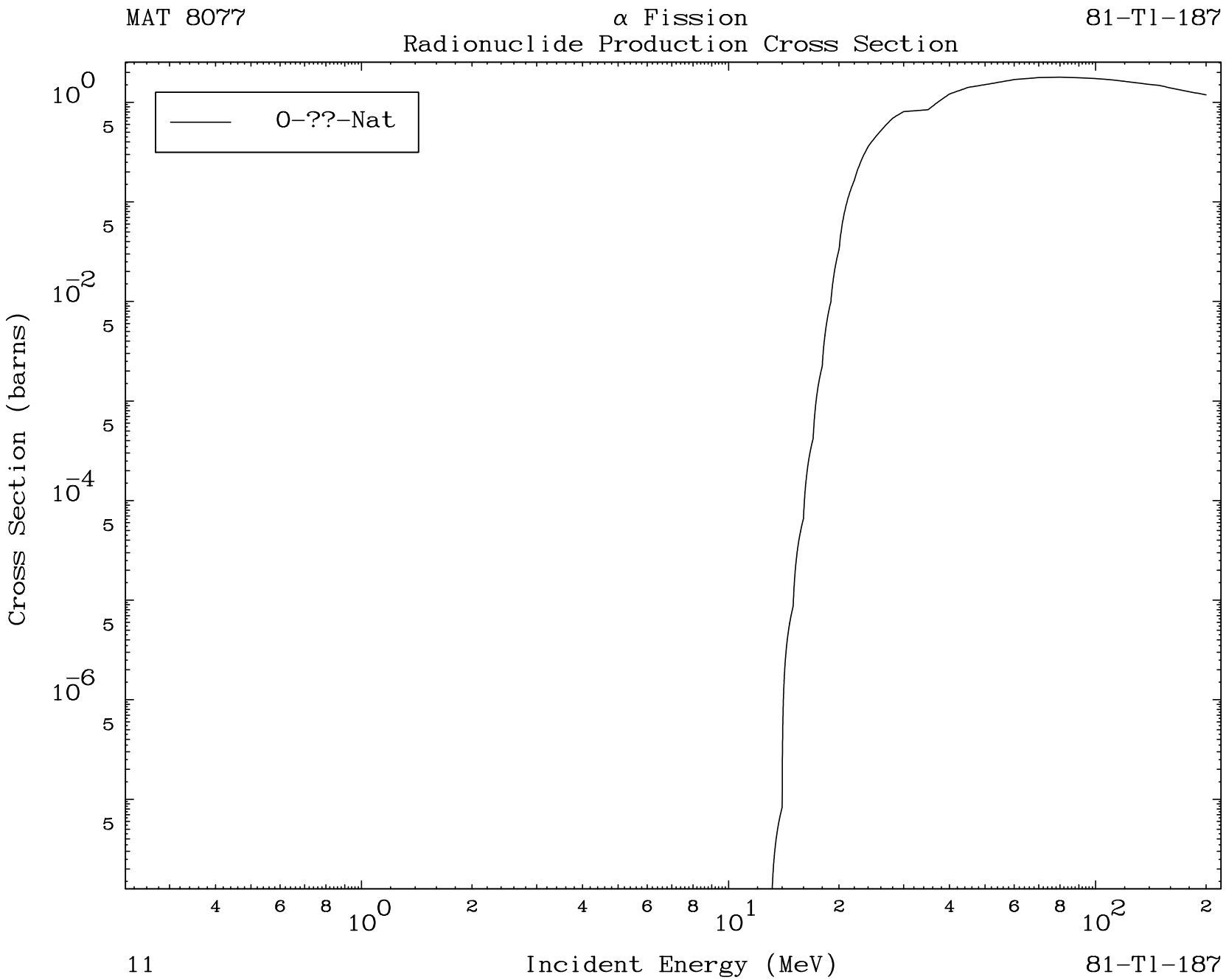

0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

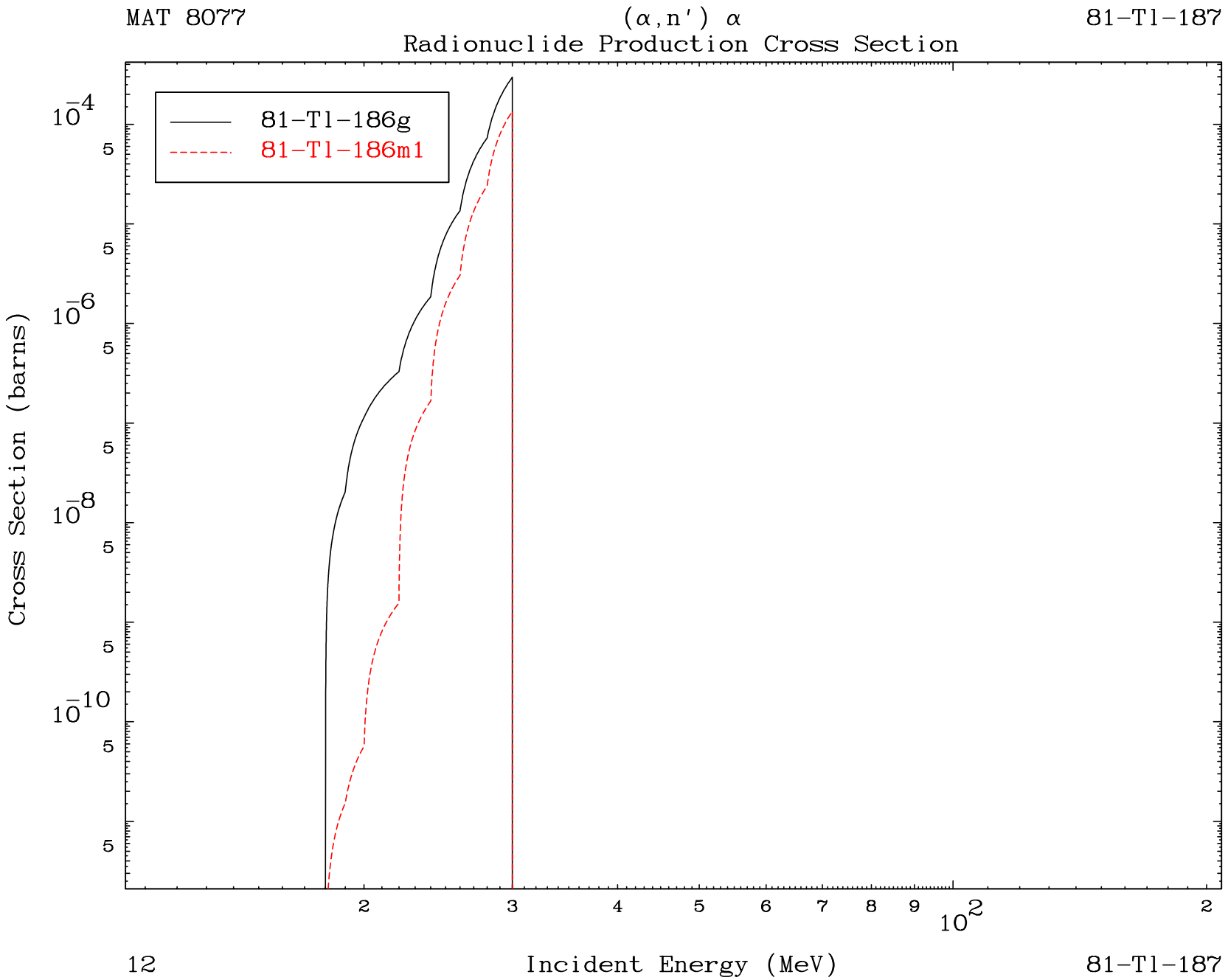

MAT 8077
(α,t) Levels
81-Tl-187
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
7
Incident Energy (MeV)
81-Tl-187

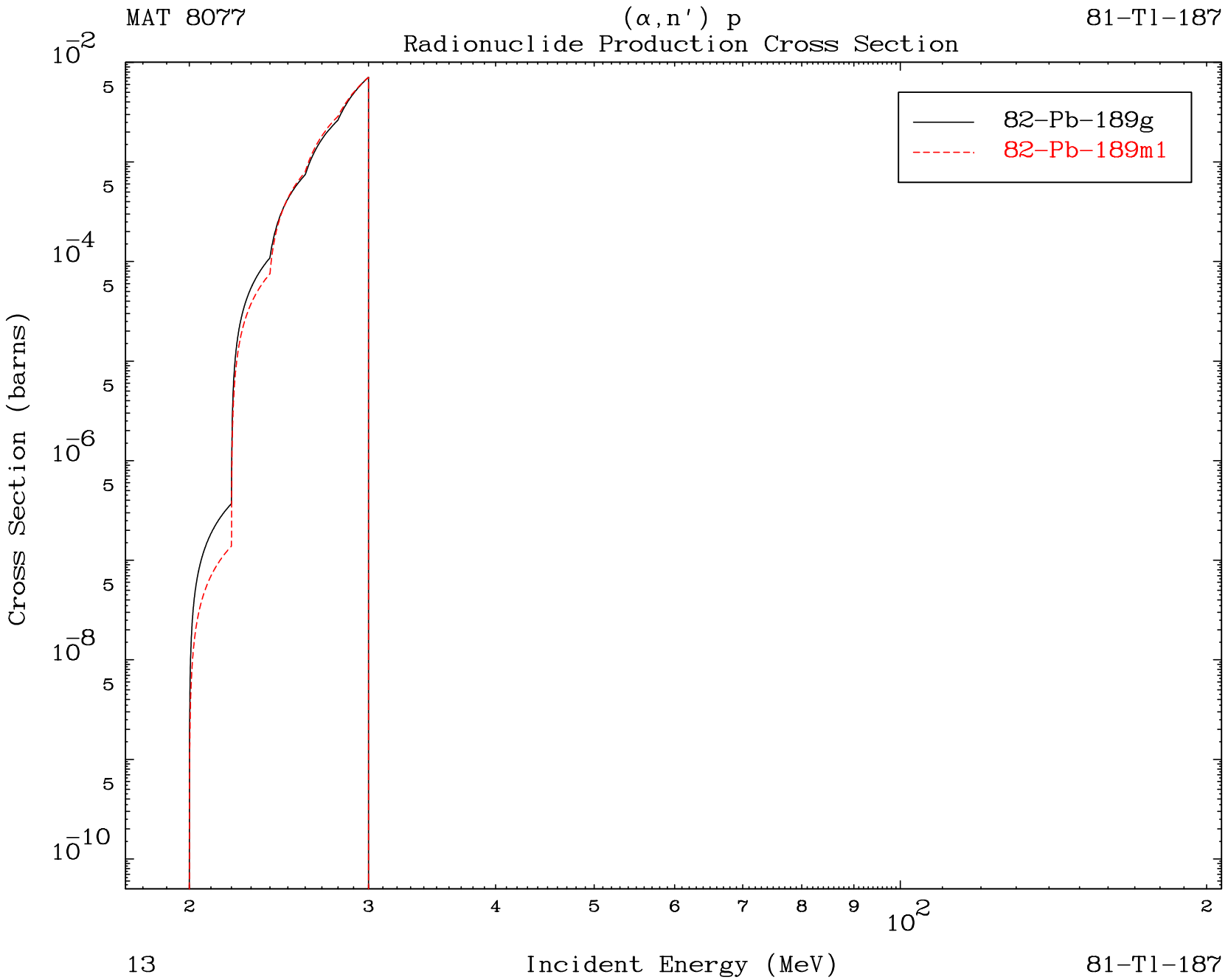

MAT 8077
(α,He3) Levels
81-Tl-187
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
8
81-Tl-187

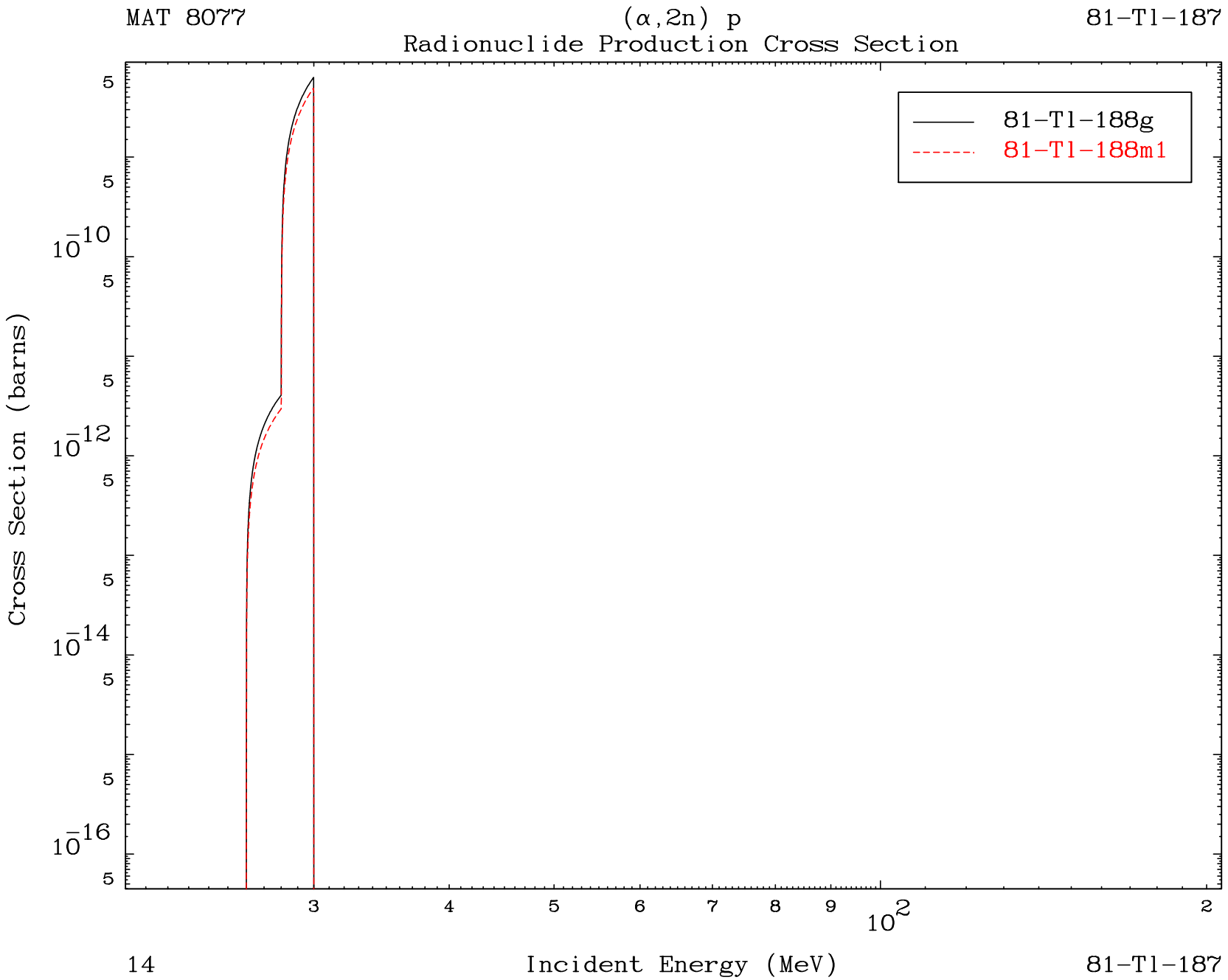

MAT 8077
(α,α) Levels
81-Tl-187
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
9
81-Tl-187

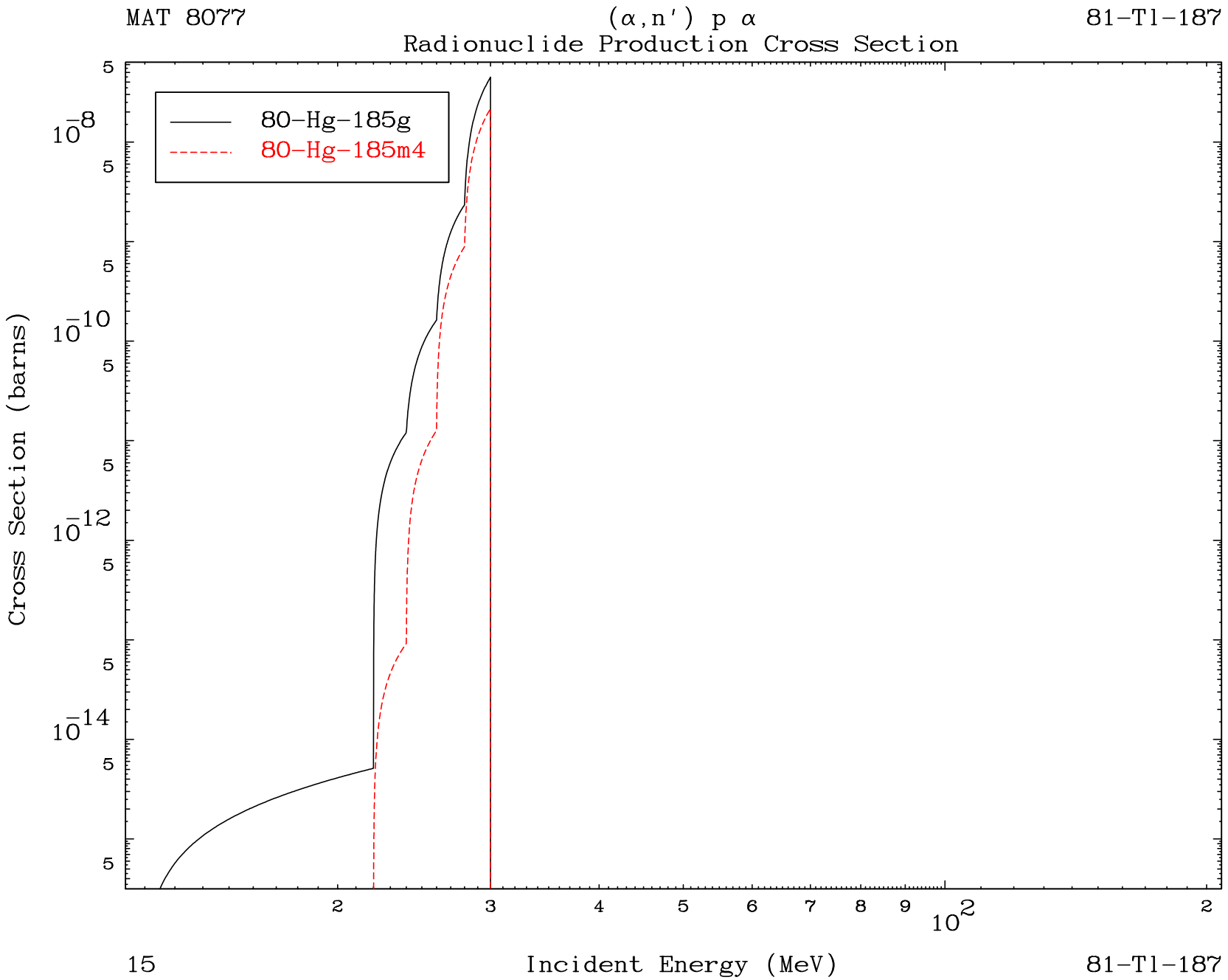

MAT 8077
α Inelastic
81-Tl-187
Radionuclide Production Cross Section
83-Bi-190g
83-Bi-190m1
Cross Section (barns)
10^-2
5
10^-3
5
10^-4
5
10^-5
5
10^-6
5
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
81-Tl-187

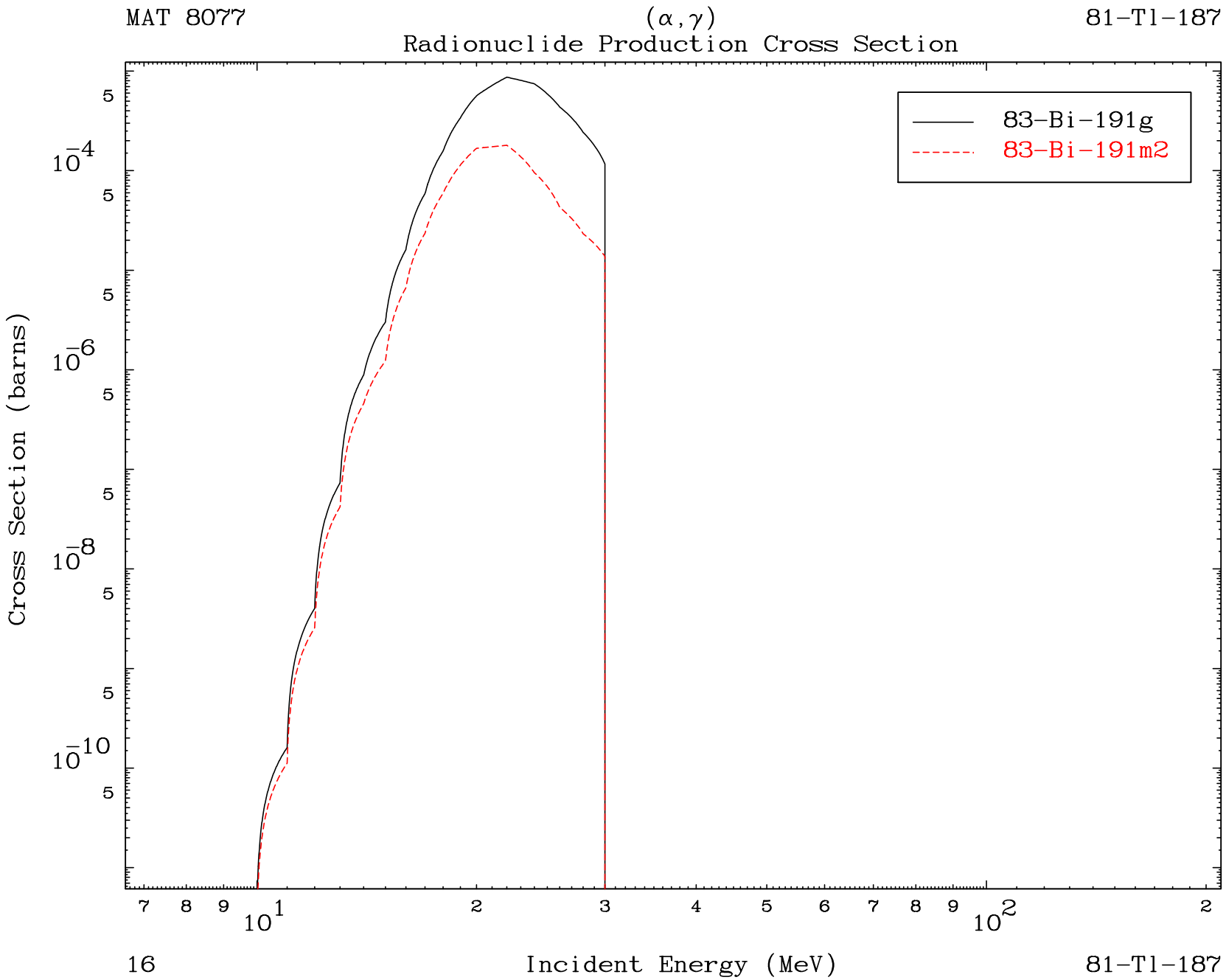

MAT 8077
α Fission
81-Tl-187
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
11
81-Tl-187

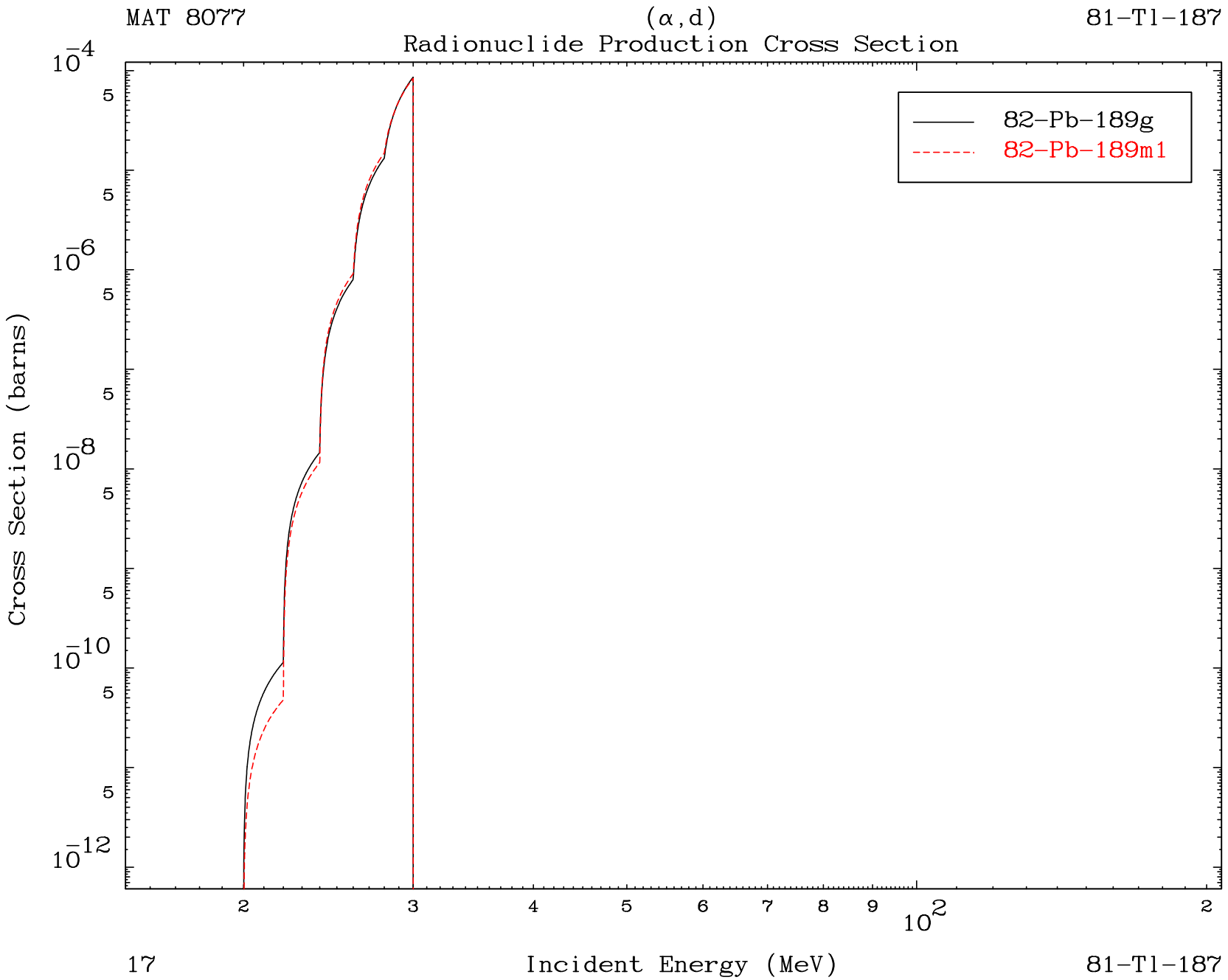

MAT 8077
(α,n') α
81-Tl-187
Radionuclide Production Cross Section
81-Tl-186g
81-Tl-186m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
12
81-Tl-187

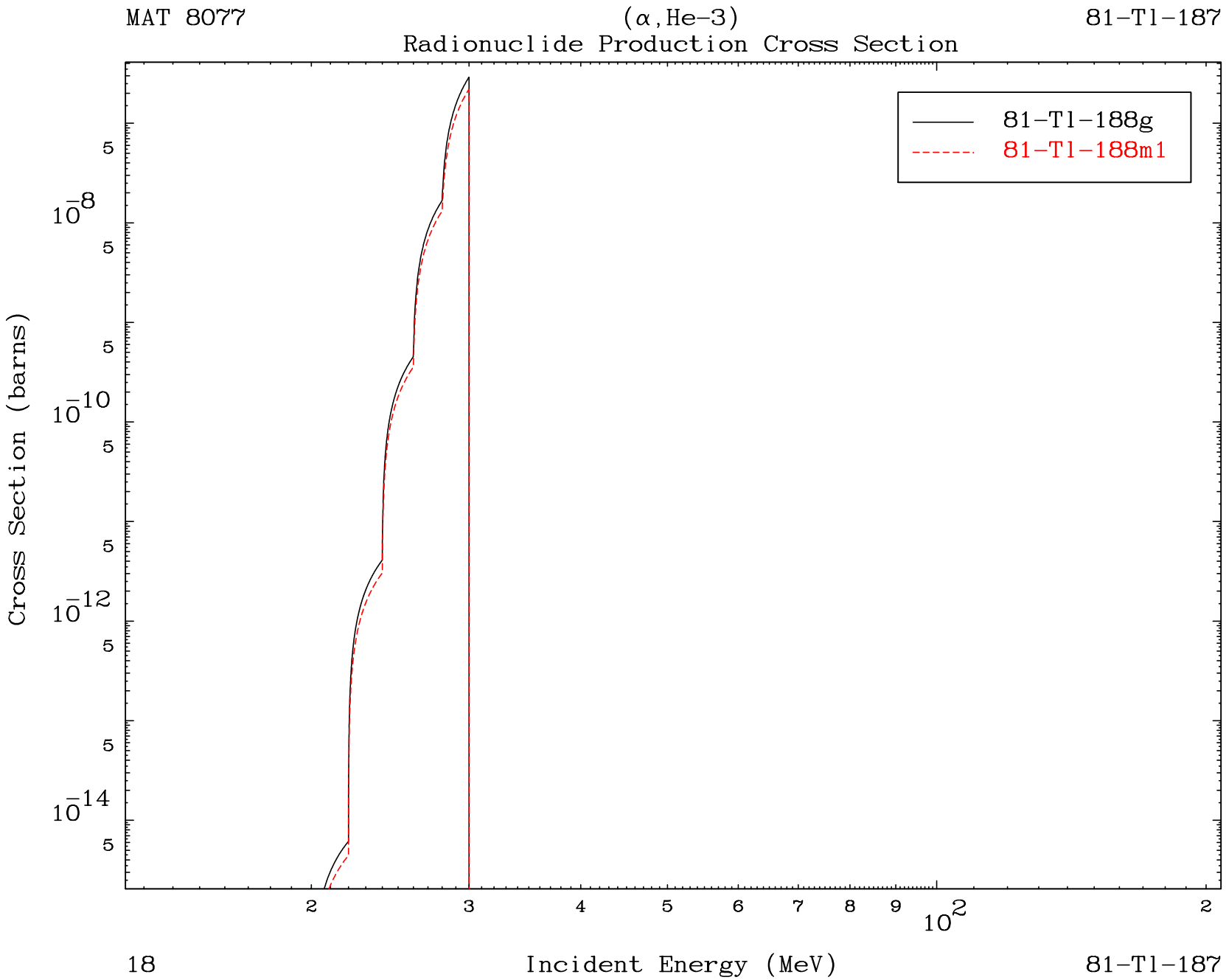

MAT 8077
(α,n') p
81-Tl-187
Radionuclide Production Cross Section
82-Pb-189g
82-Pb-189m1
Cross Section (barns)
Incident Energy (MeV)
13
81-Tl-187

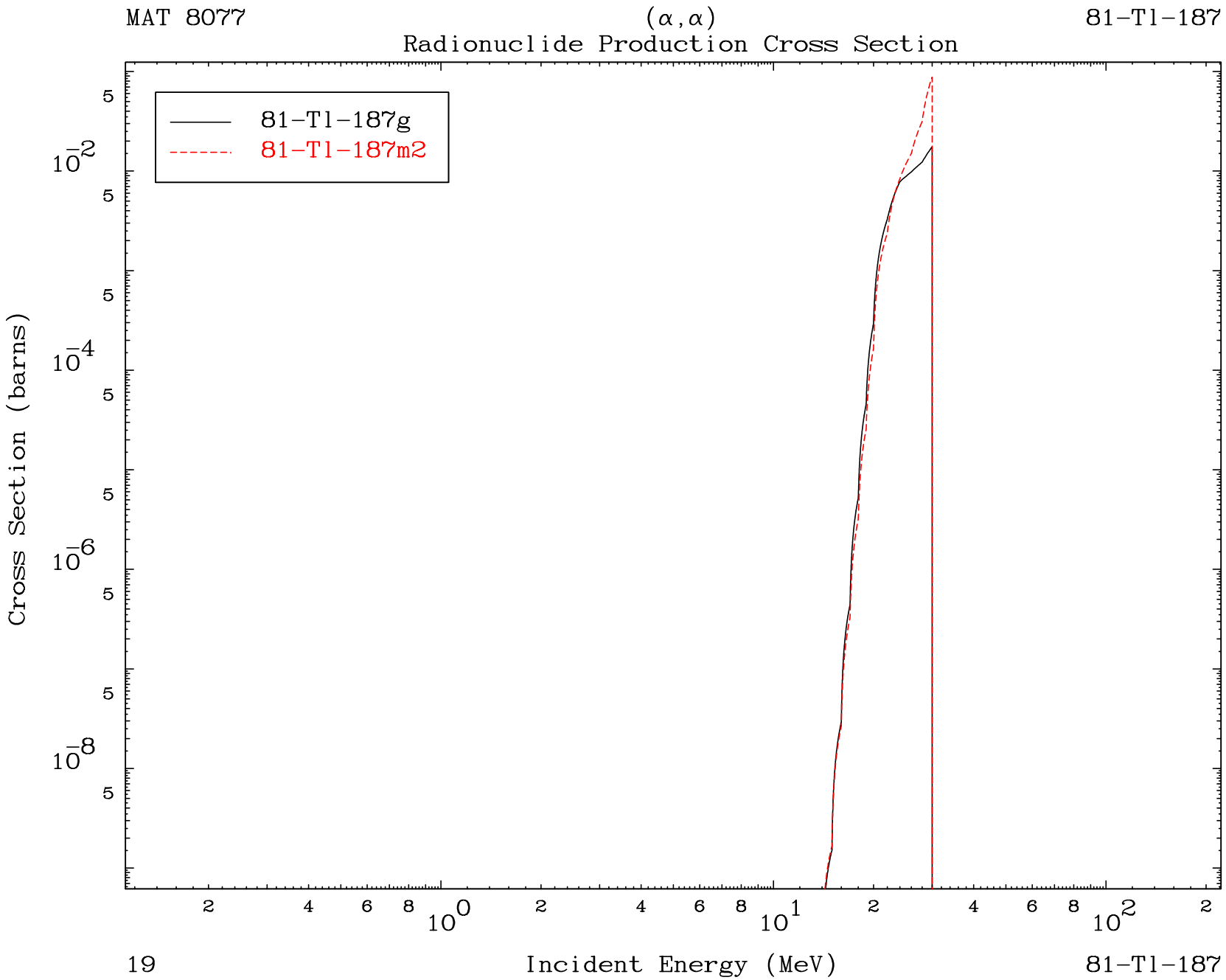

MAT 8077
(α,2n) p
81-Tl-187
Radionuclide Production Cross Section
81-Tl-188g
81-Tl-188m1
Cross Section (barns)
Incident Energy (MeV)
14
81-Tl-187

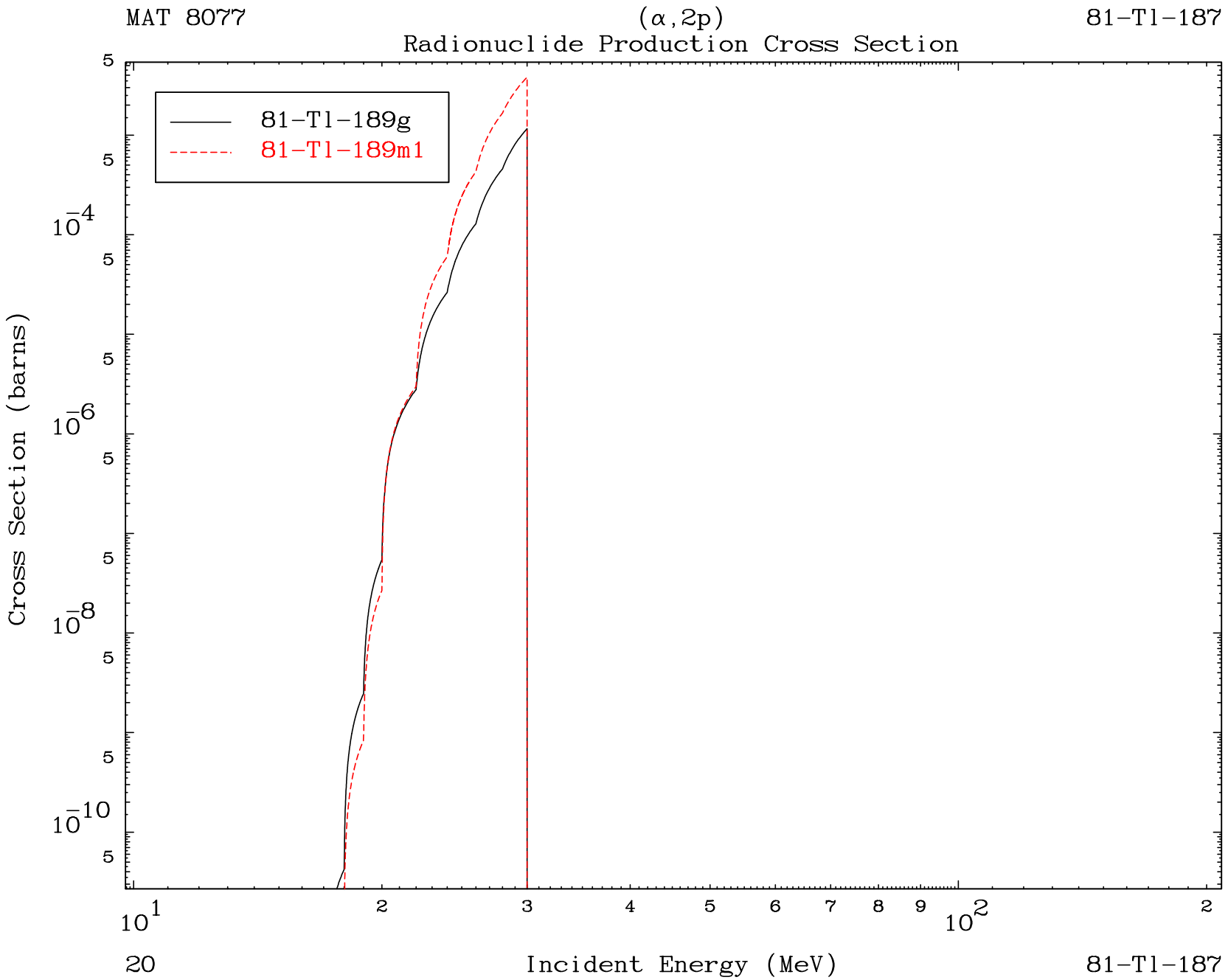

MAT 8077
(α,n') p α
81-Tl-187
Radionuclide Production Cross Section
80-Hg-185g
80-Hg-185m4
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
81-Tl-187


MAT 8077
(α,γ)
81-Tl-187
Radionuclide Production Cross Section
83-Bi-191g
83-Bi-191m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
16
81-Tl-187


MAT 8077
(α,d)
81-Tl-187
Radionuclide Production Cross Section
82-Pb-189g
82-Pb-189m1
Cross Section (barns)
Incident Energy (MeV)
17
81-Tl-187


MAT 8077
(α,He-3)
81-Tl-187
Radionuclide Production Cross Section
81-Tl-188g
81-Tl-188m1
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)
81-Tl-187


MAT 8077
(α,α)
81-Tl-187
Radionuclide Production Cross Section
81-Tl-187g
81-Tl-187m2
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
19
81-Tl-187


MAT 8077
(α,2p)
81-Tl-187
Radionuclide Production Cross Section
81-Tl-189g
81-Tl-189m1
Cross Section (barns)
Incident Energy (MeV)
20
81-Tl-187