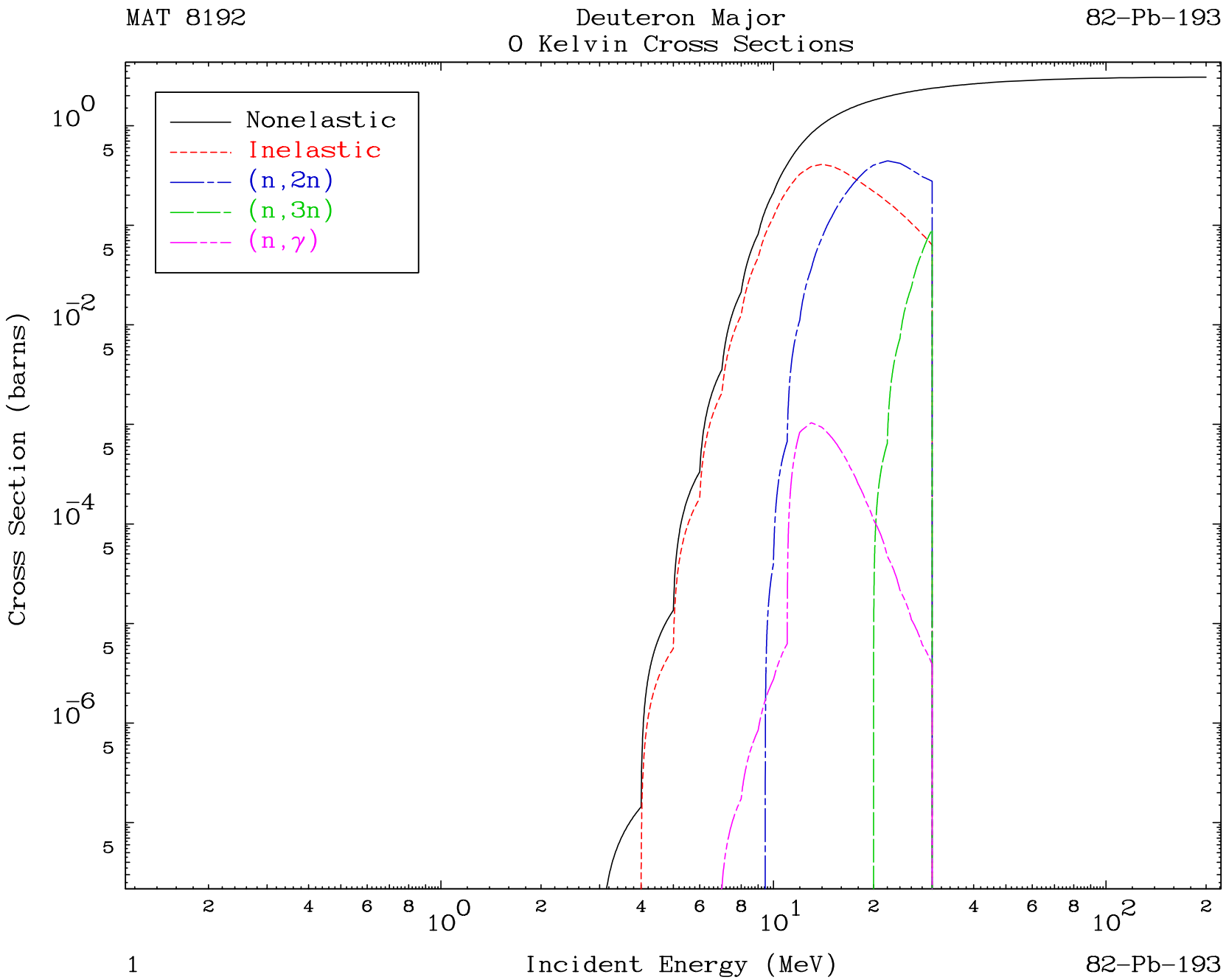
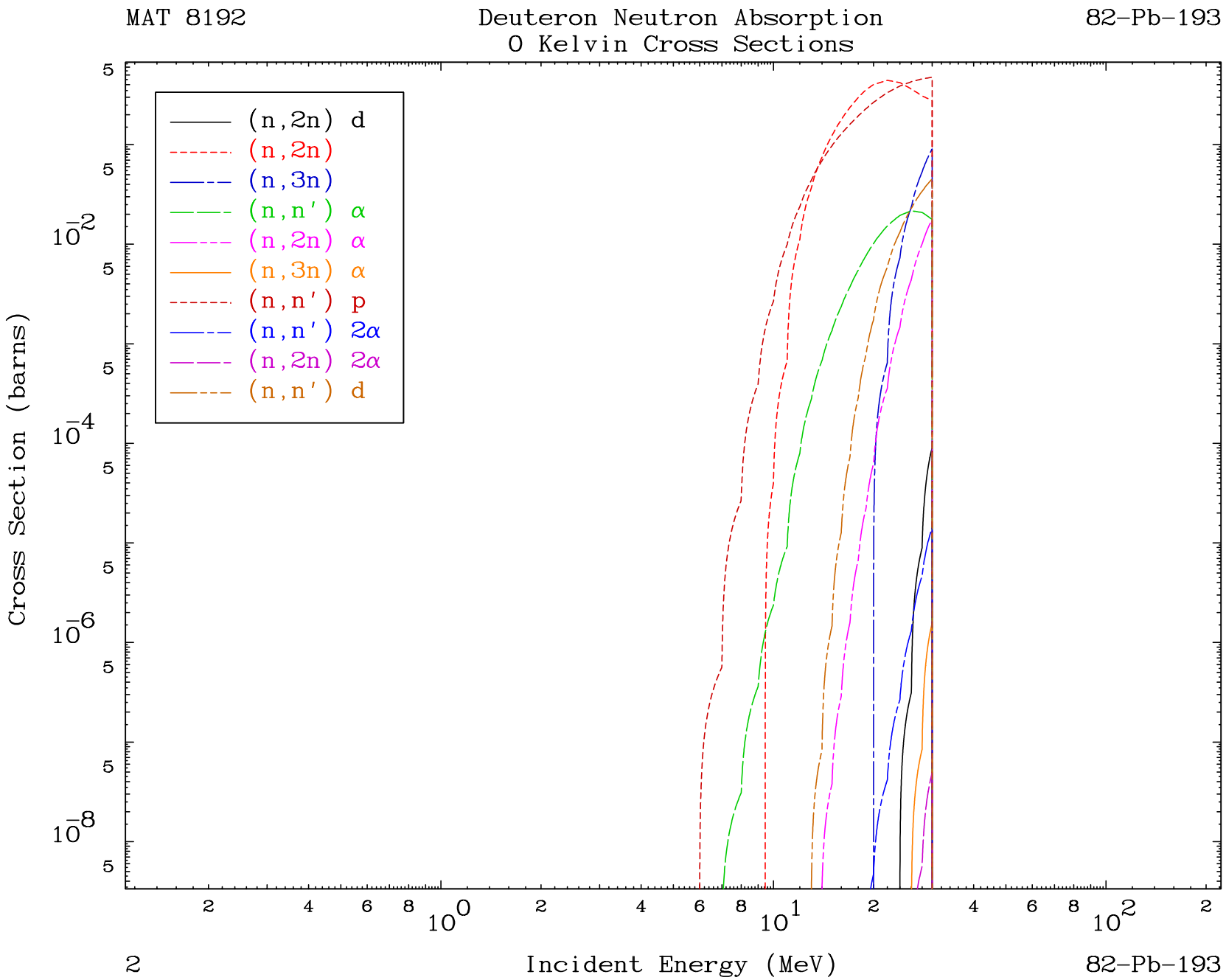
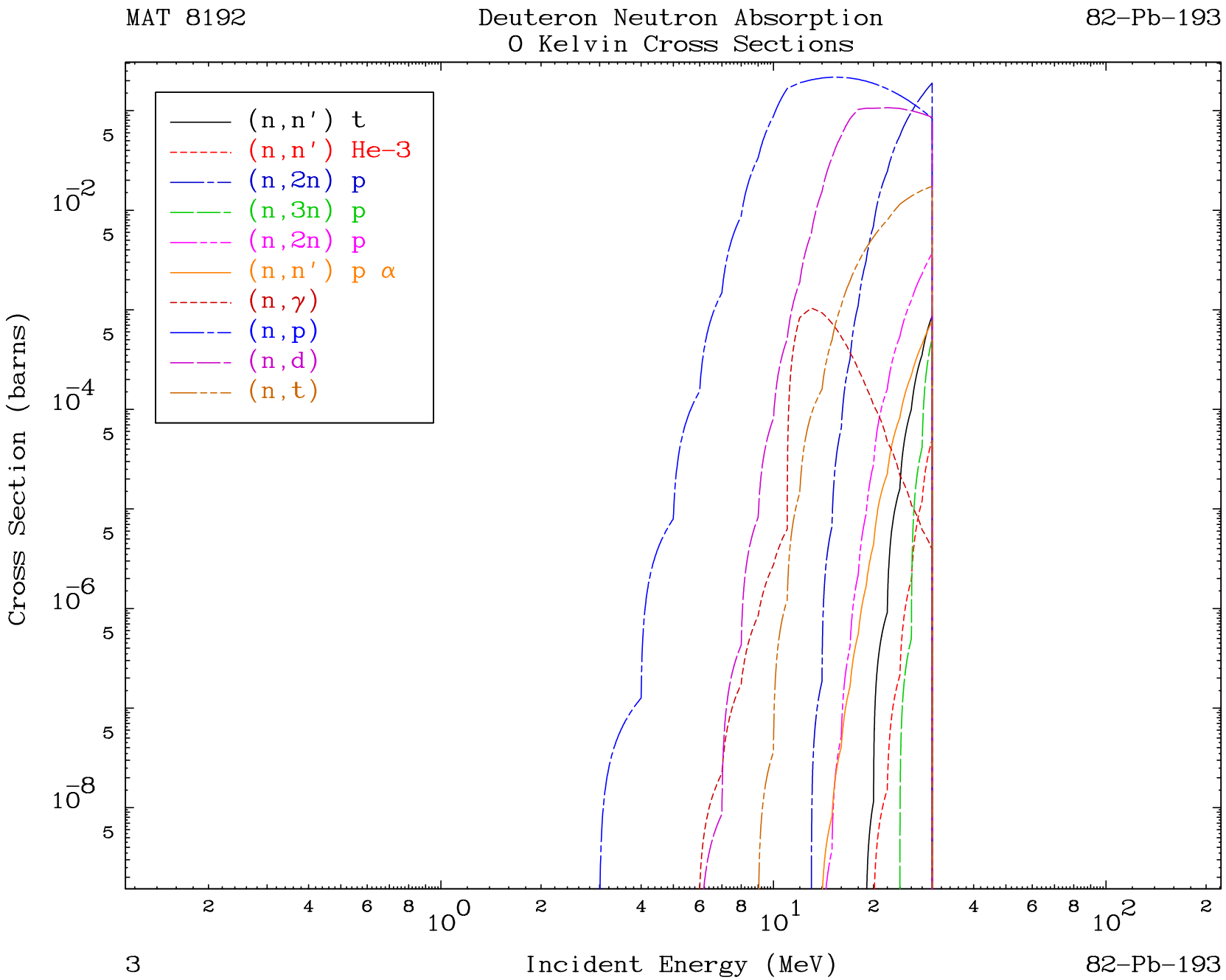
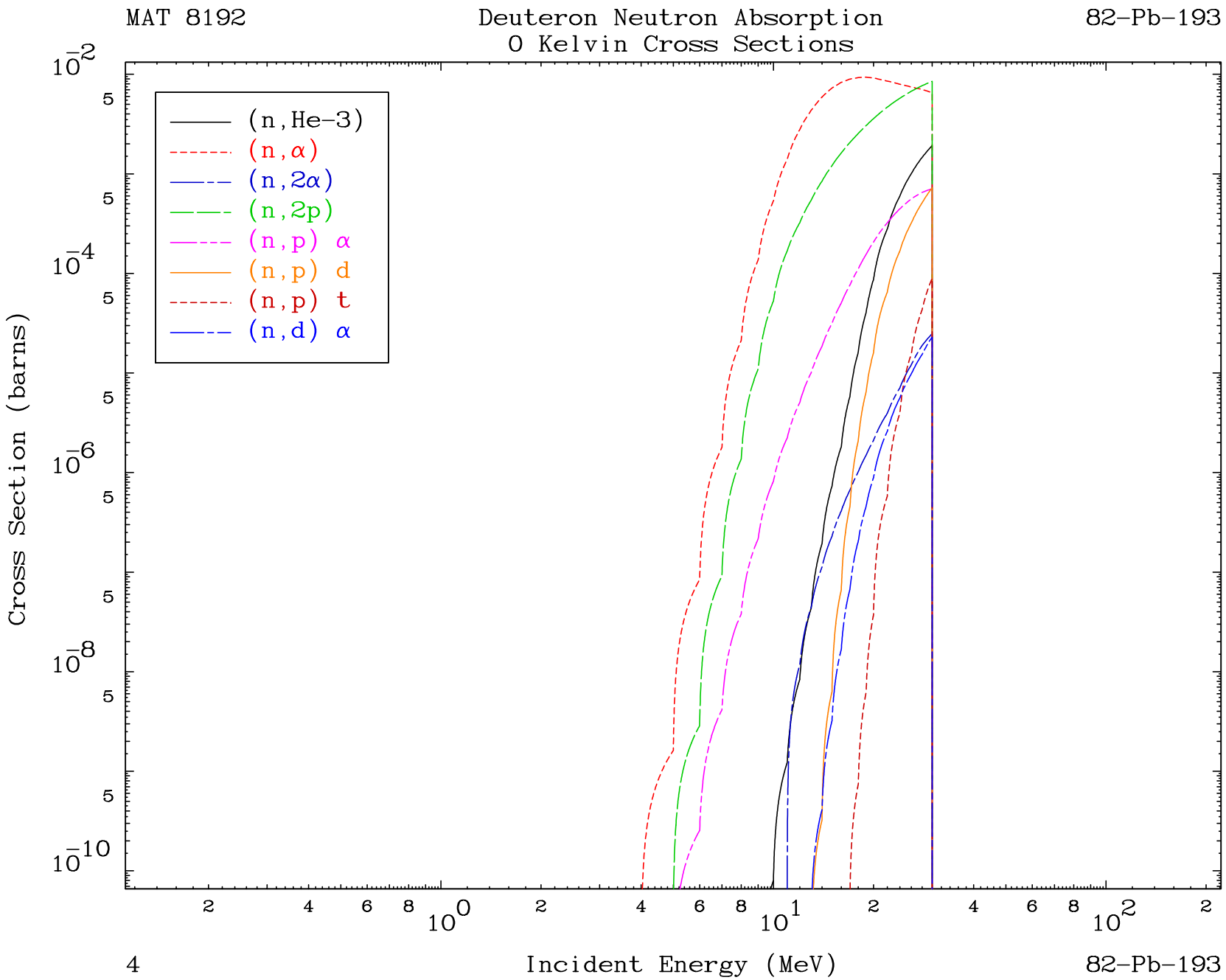
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

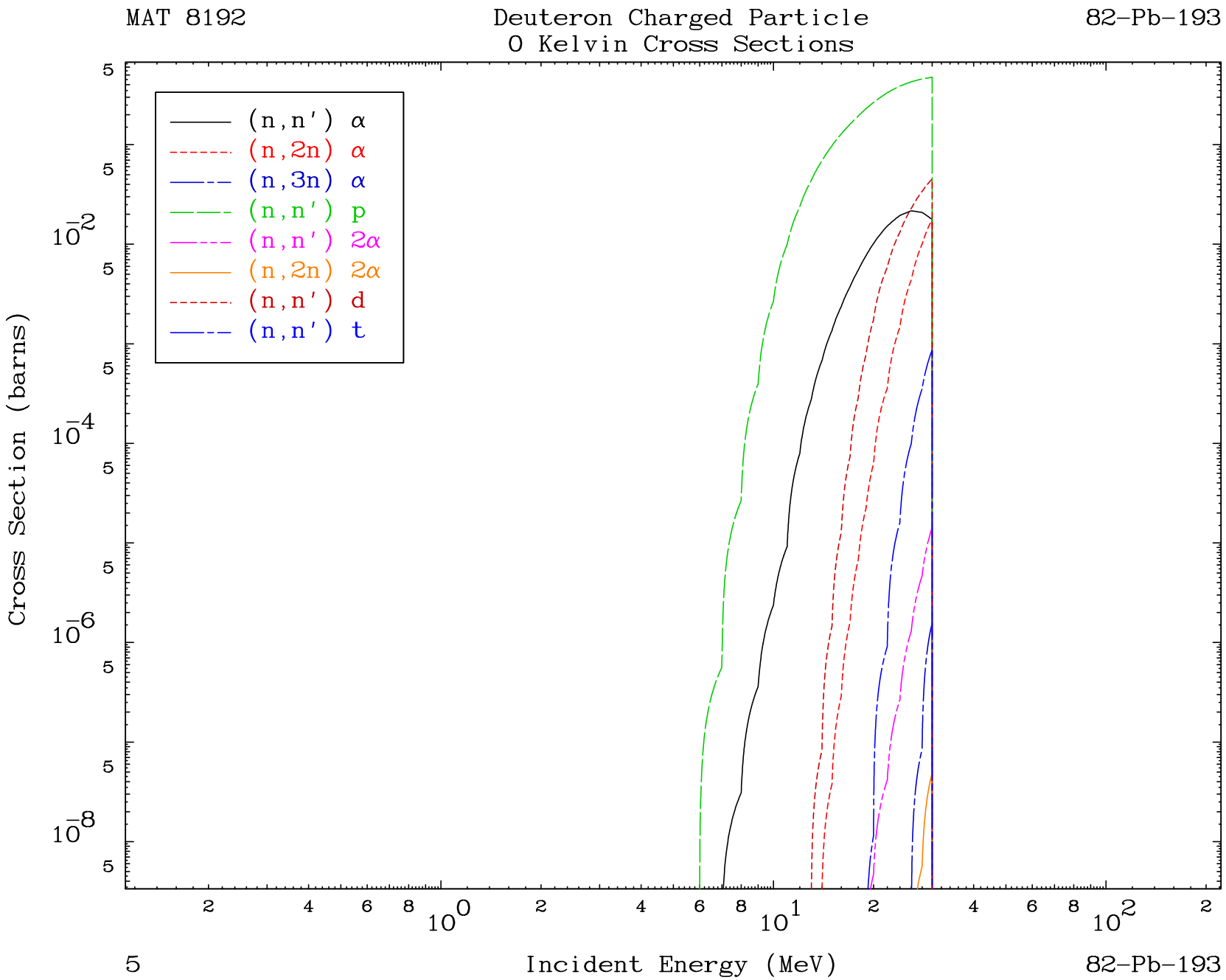
Press Mouse Button to Start

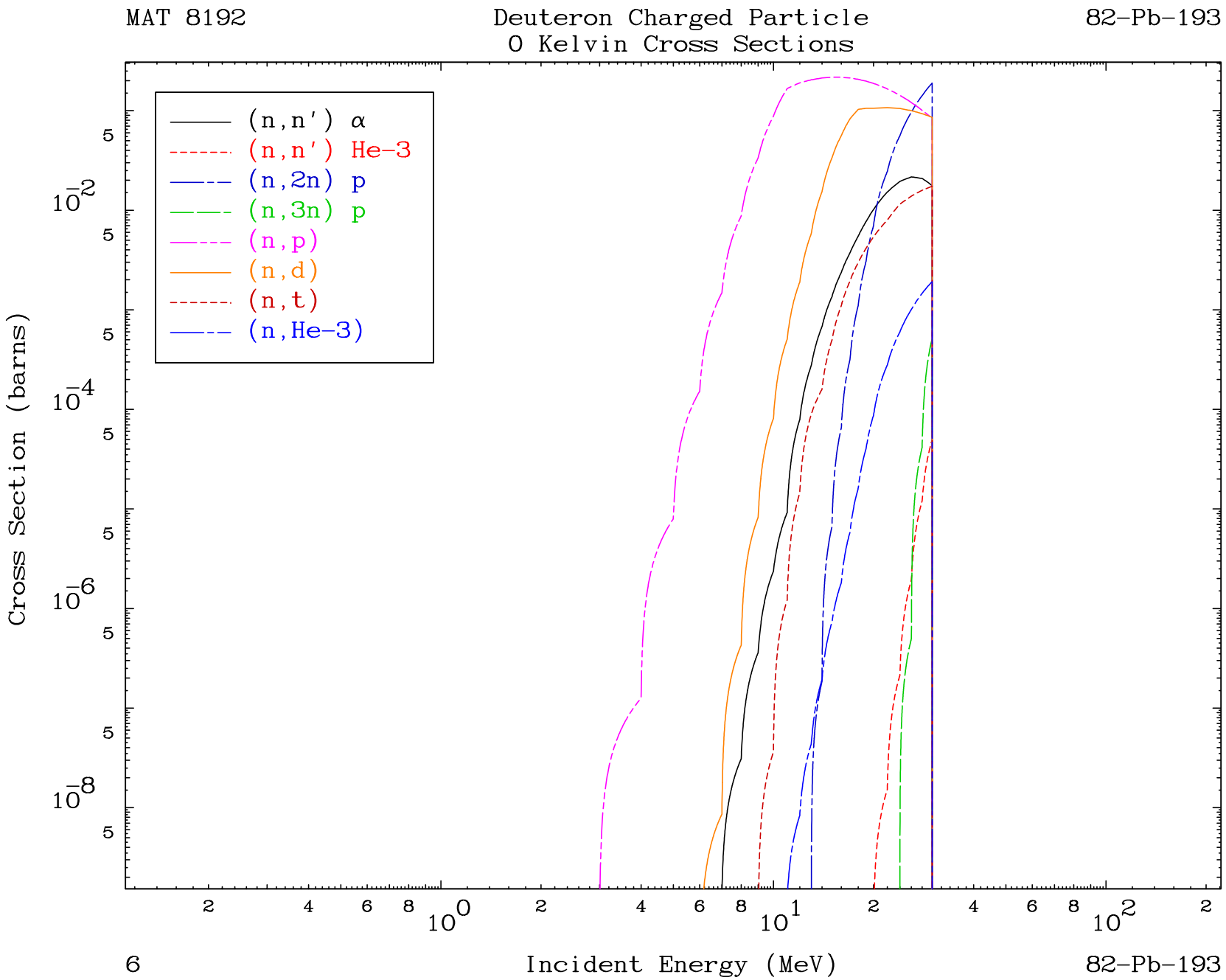

MAT 8192
Deuteron Major
82-Pb-193
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-193
1

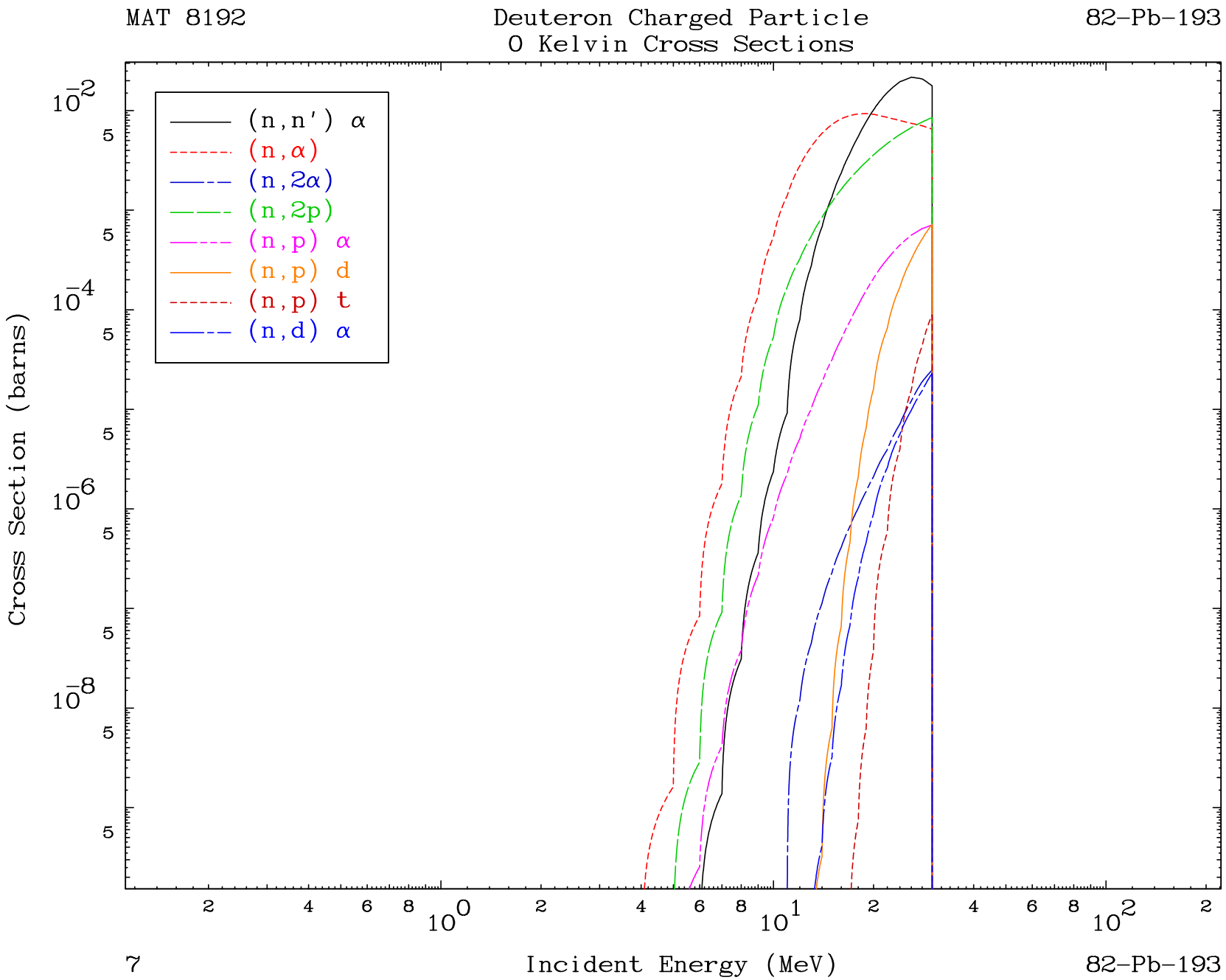

MAT 8192
Deuteron Neutron Absorption
0 Kelvin Cross Sections
82-Pb-193
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
82-Pb-193
2

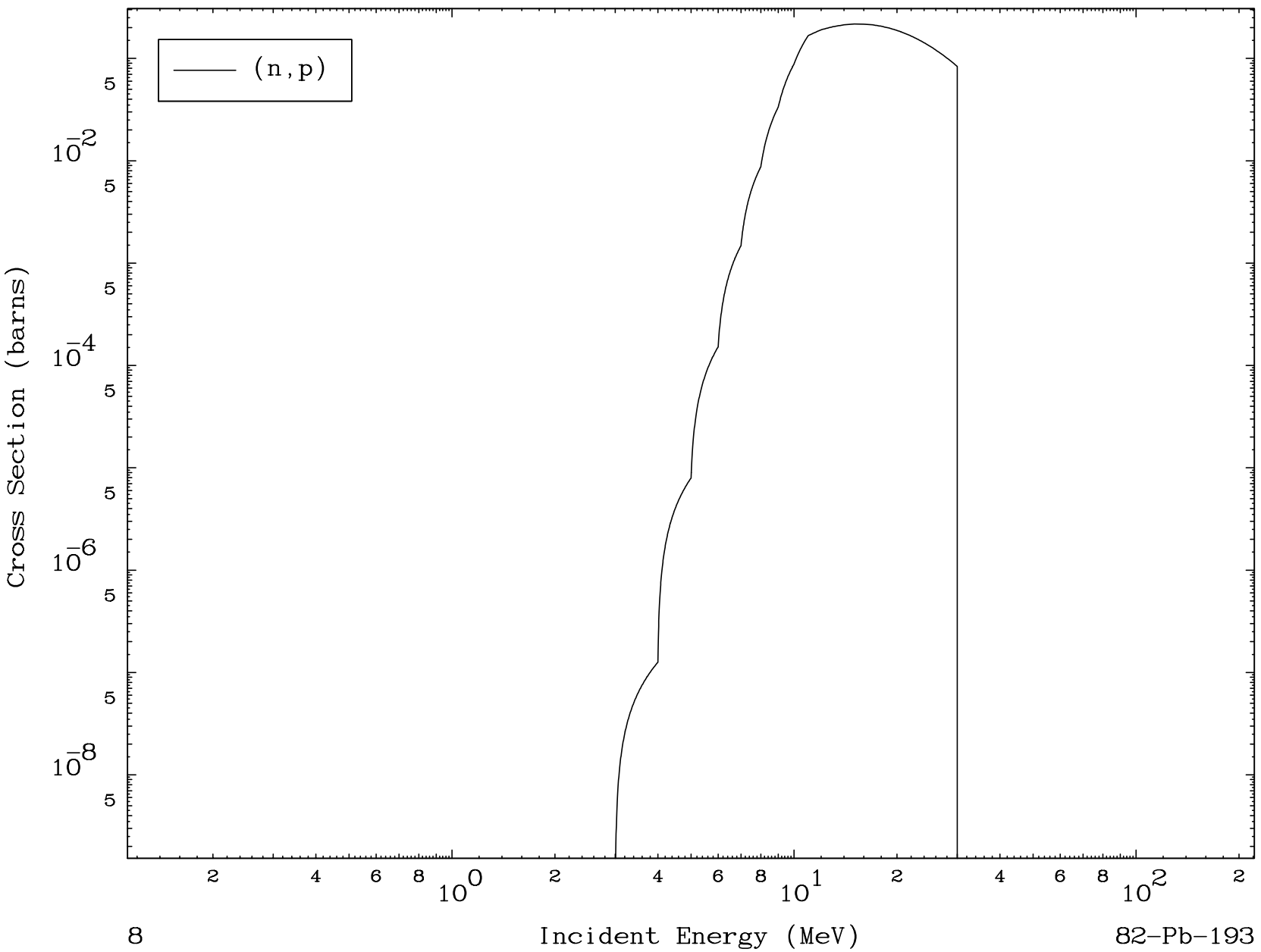

MAT 8192
Deuteron Neutron Absorption
0 Kelvin Cross Sections
82-Pb-193
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
3
82-Pb-193

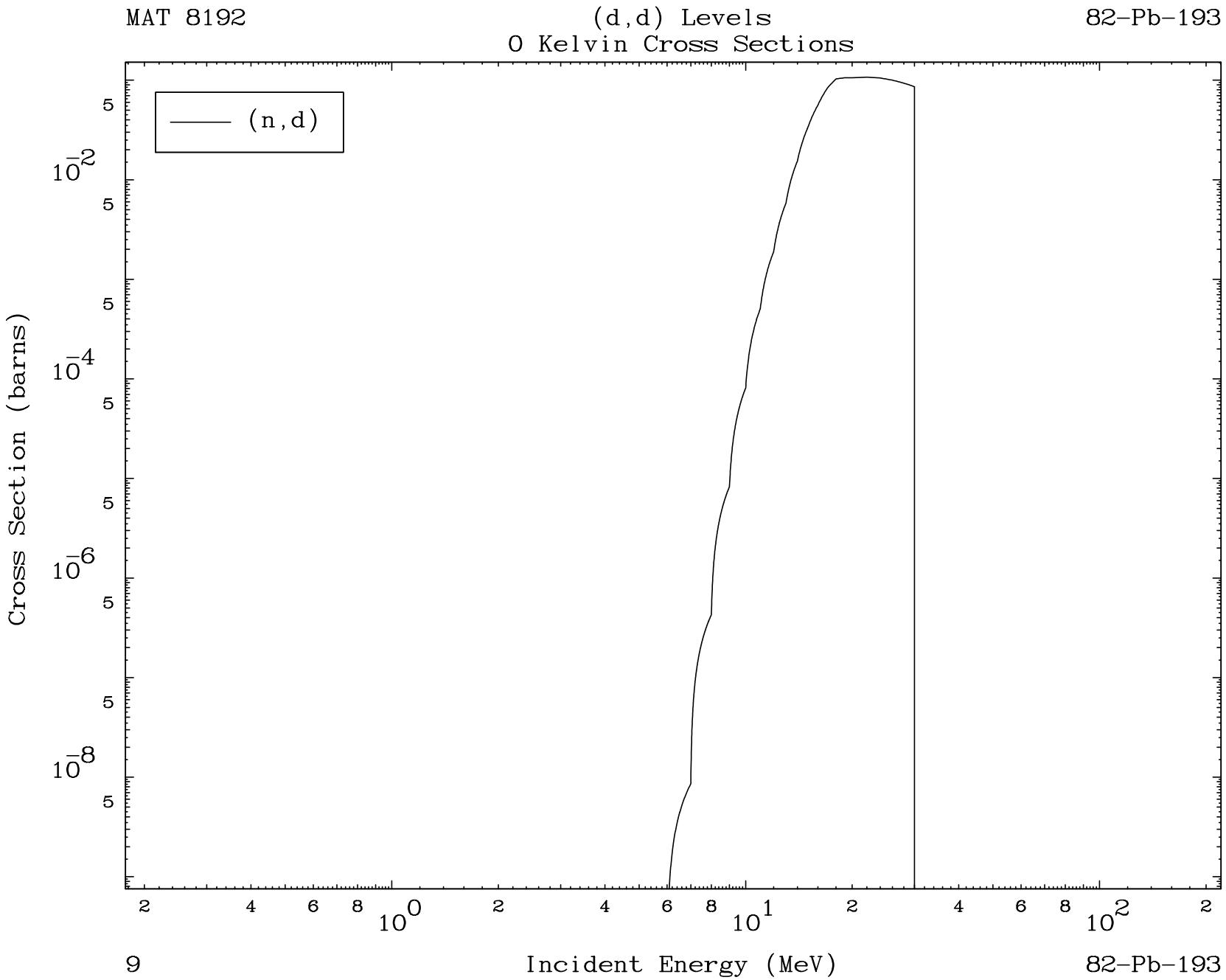

MAT 8192
Deuteron Neutron Absorption
0 Kelvin Cross Sections
82-Pb-193
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
82-Pb-193

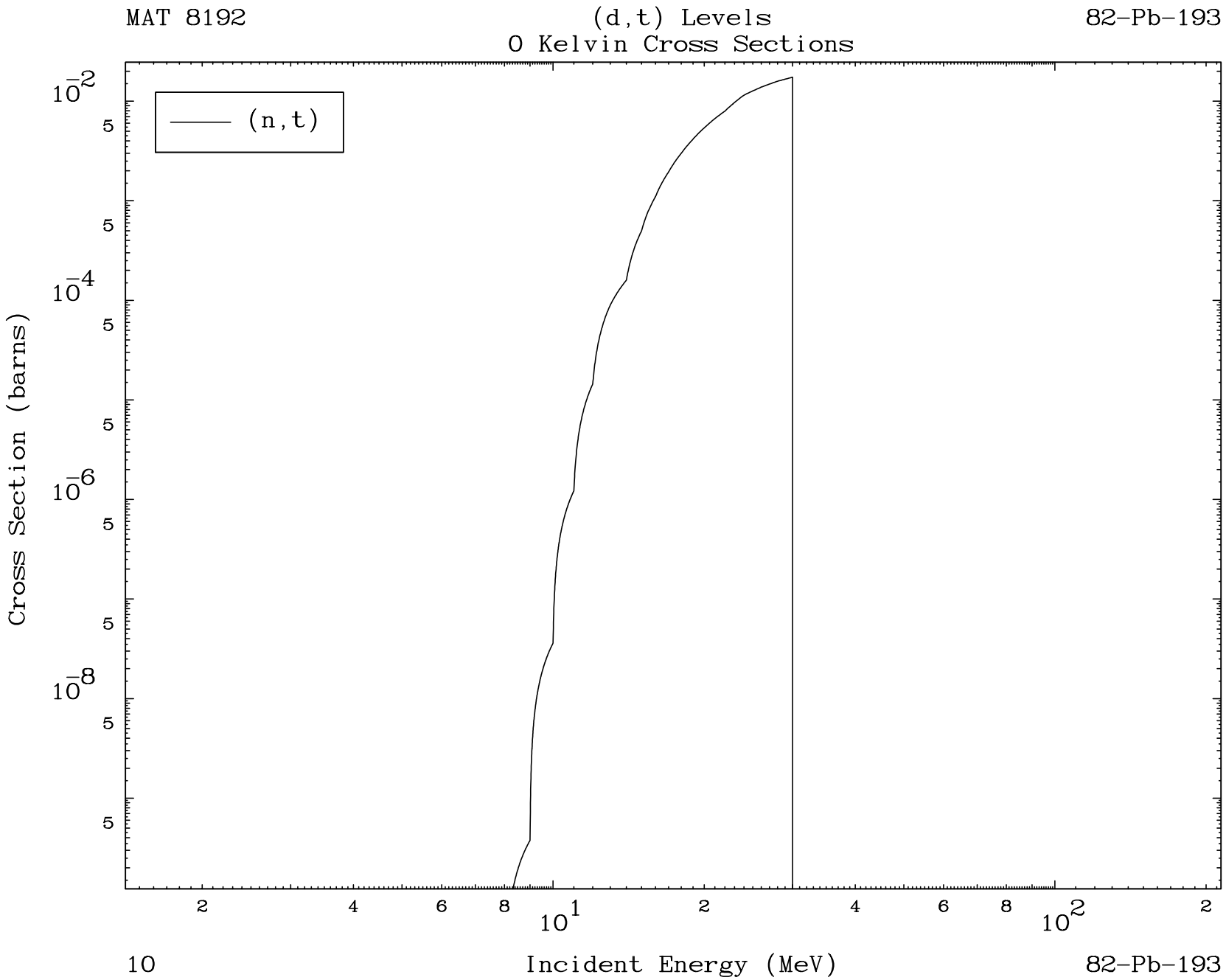

MAT 8192
Deuteron Charged Particle
0 Kelvin Cross Sections
82-Pb-193
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
82-Pb-193


MAT 8192
Deuteron Charged Particle
0 Kelvin Cross Sections
82-Pb-193
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
6
82-Pb-193

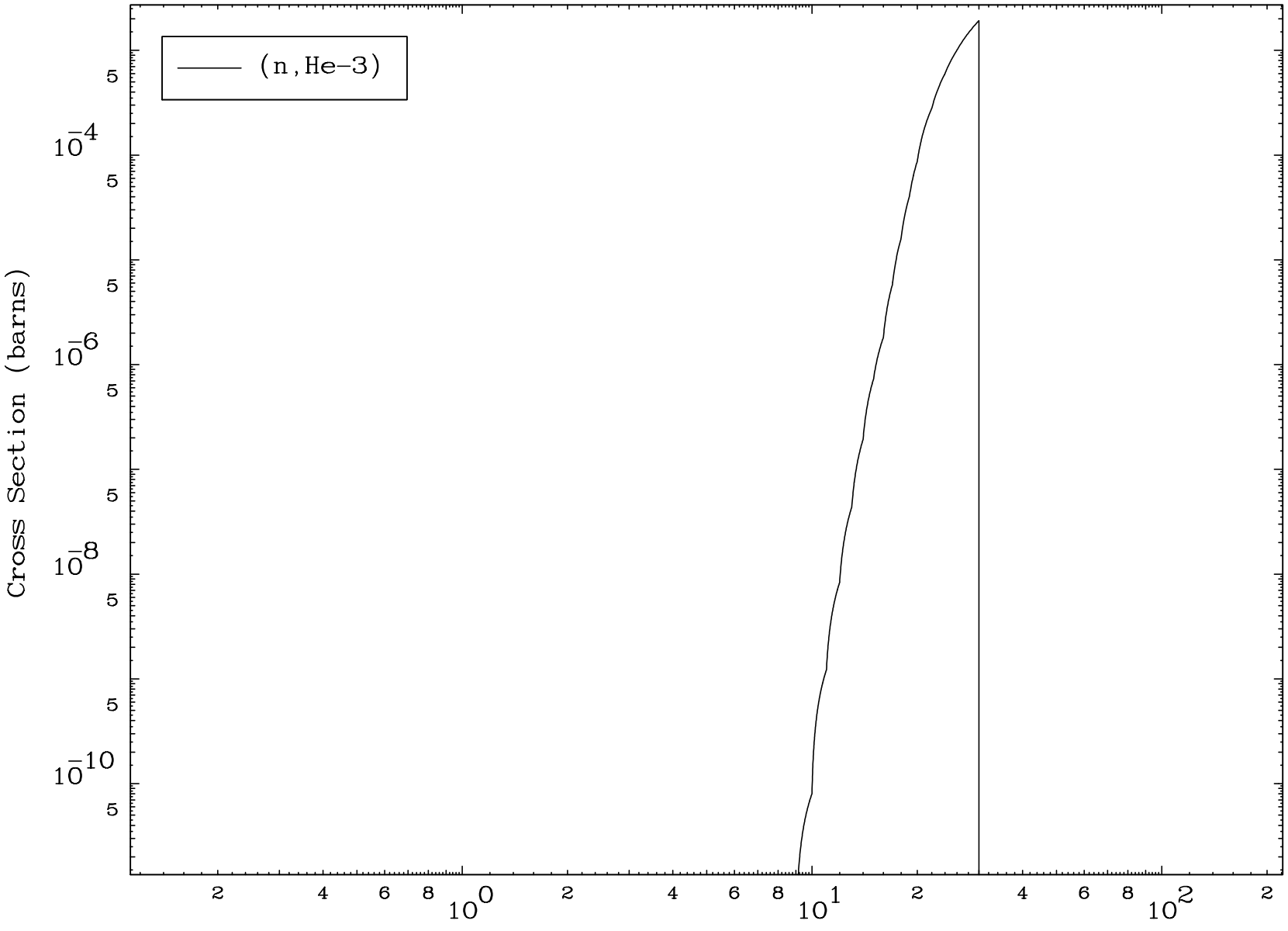

MAT 8192
Deuteron Charged Particle
0 Kelvin Cross Sections
82-Pb-193
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
7
82-Pb-193

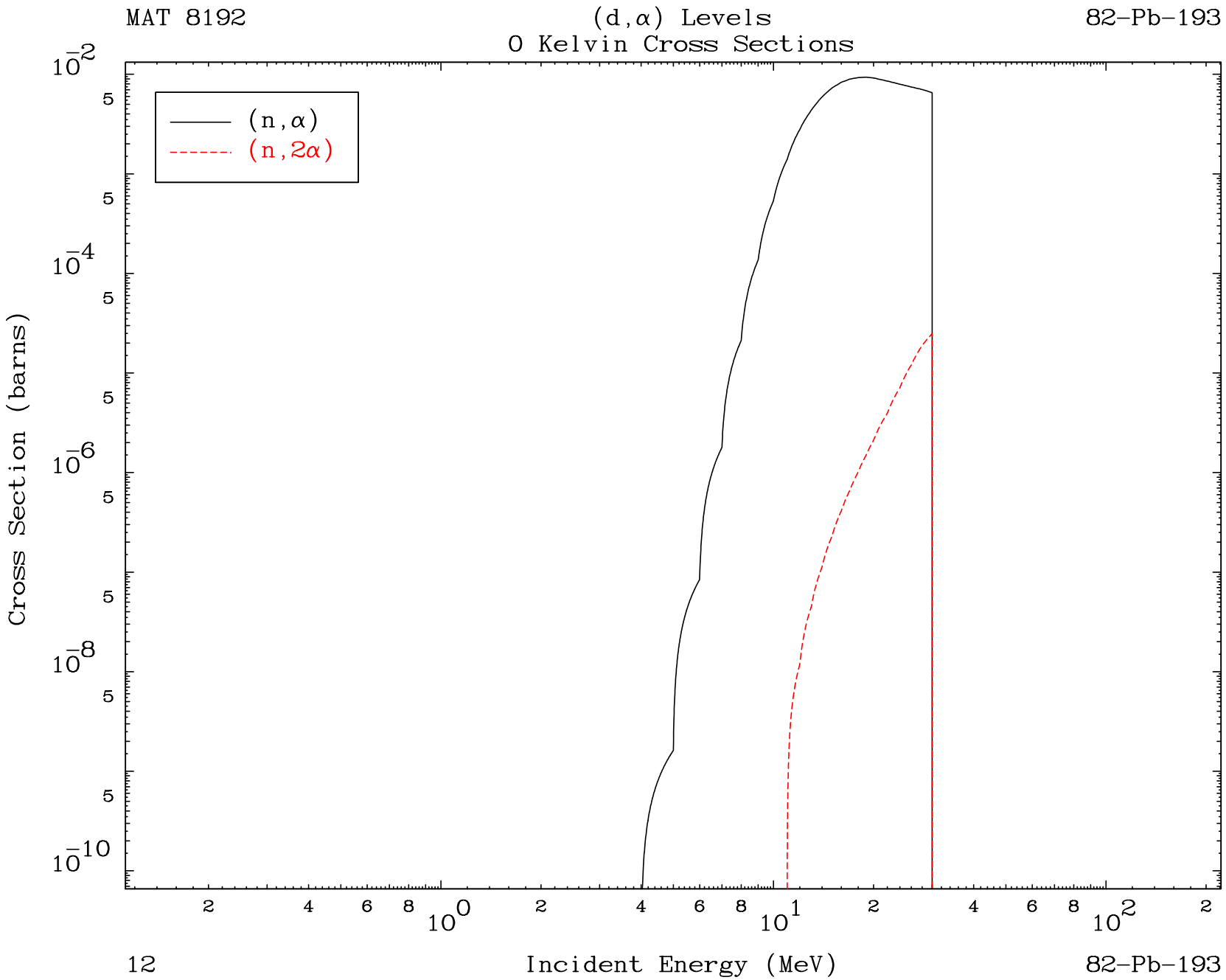

0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)

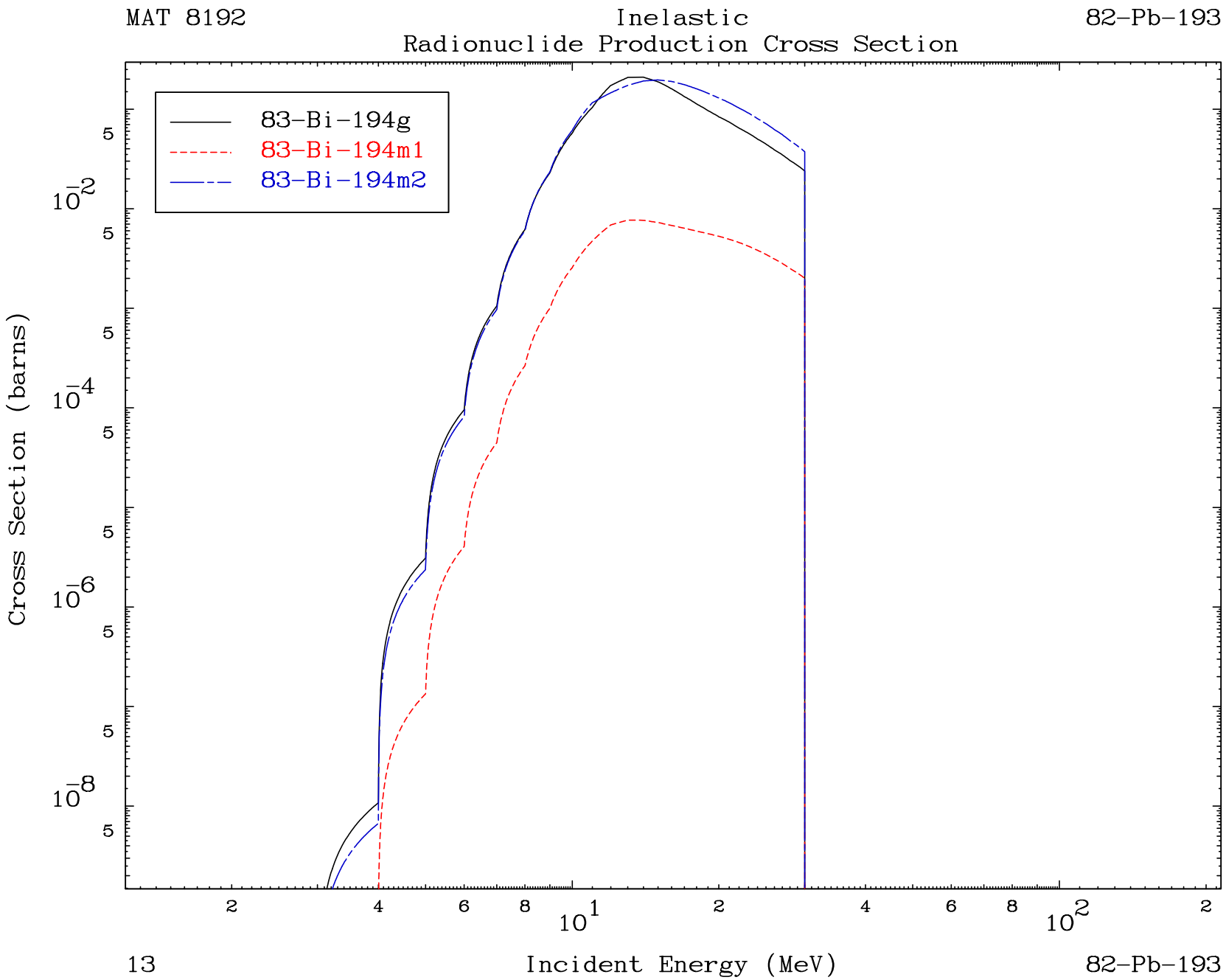

MAT 8192
(d,d) Levels
82-Pb-193
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
82-Pb-193

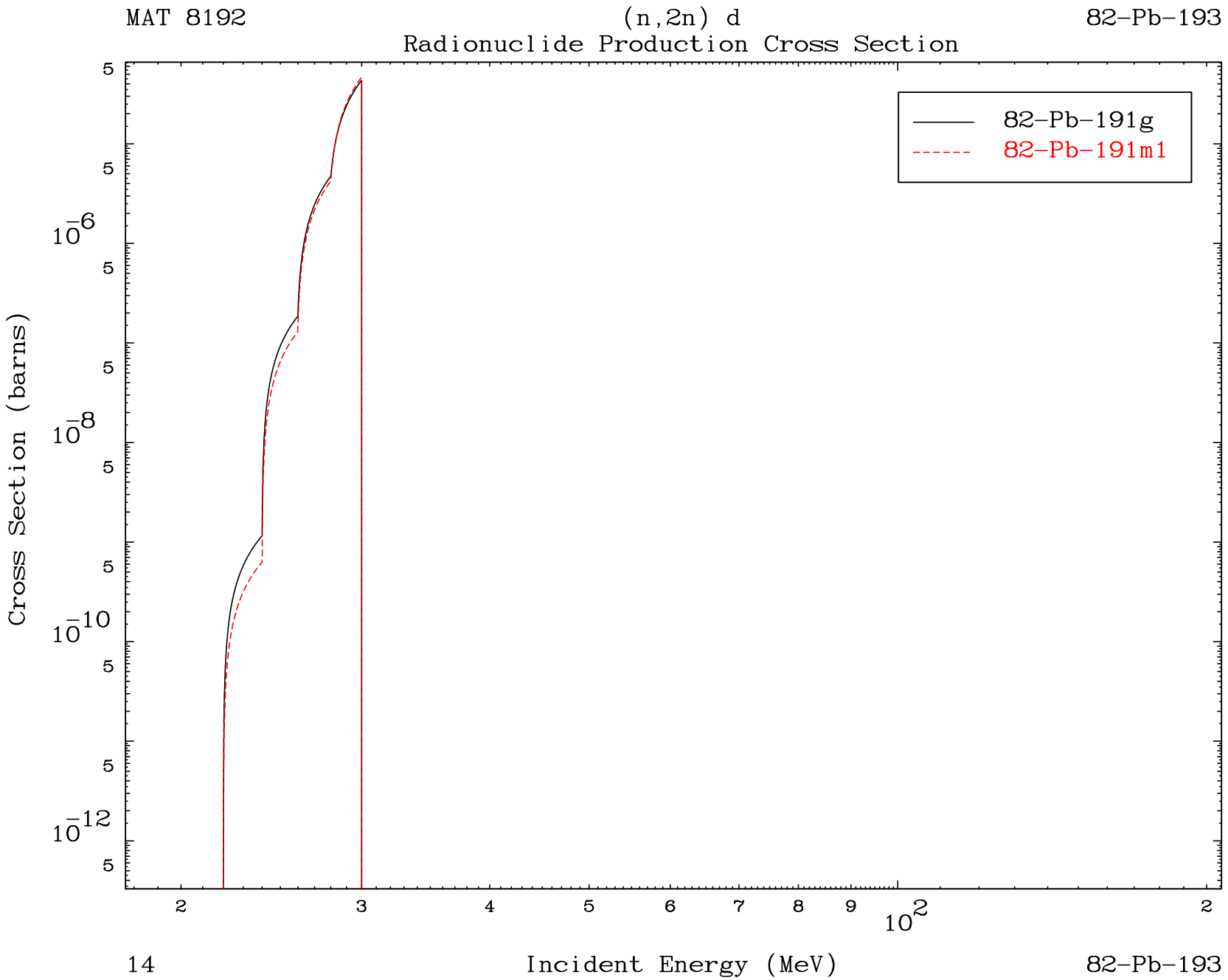

MAT 8192
(d,t) Levels
82-Pb-193
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
82-Pb-193

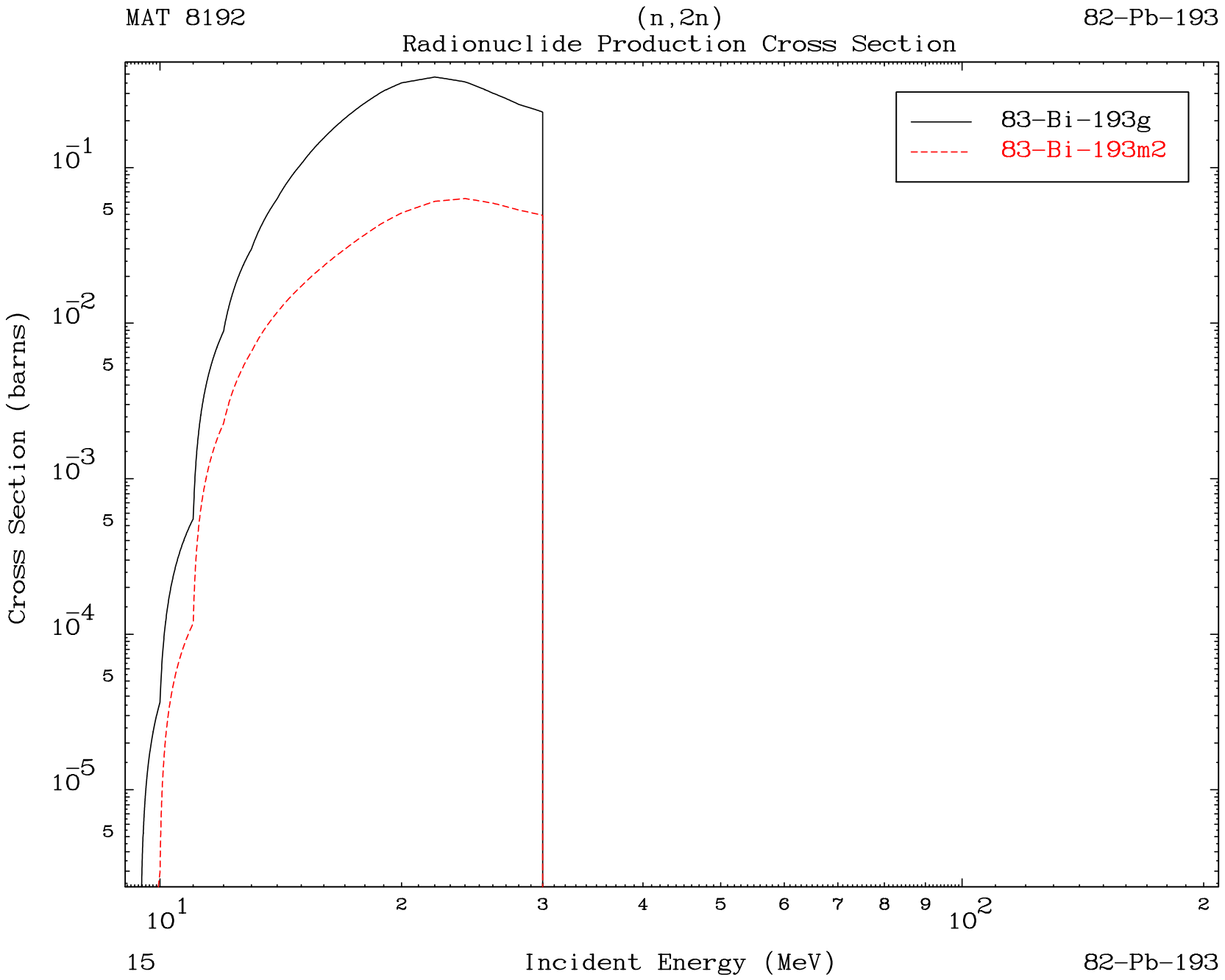
0 Kelvin Cross Sections

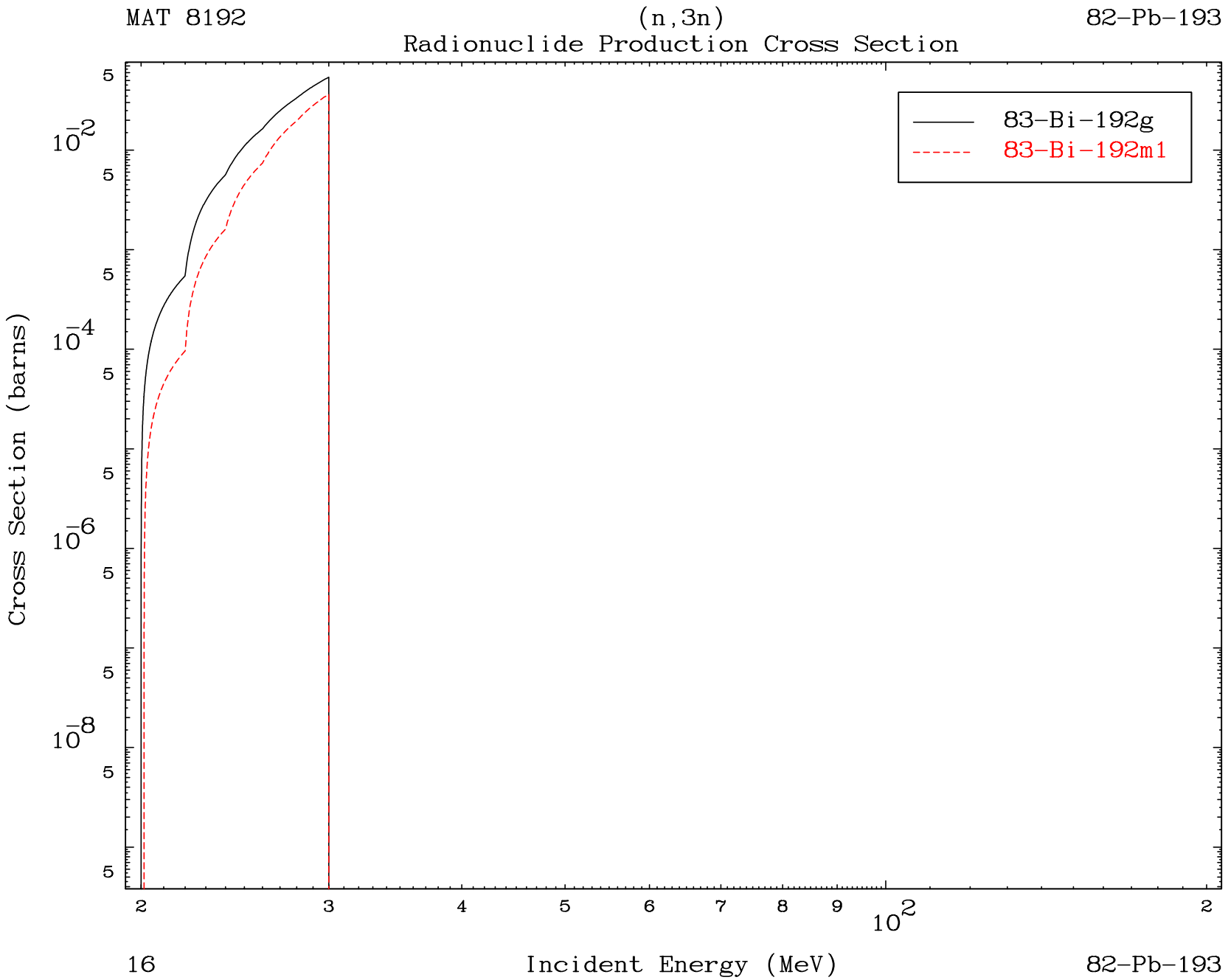


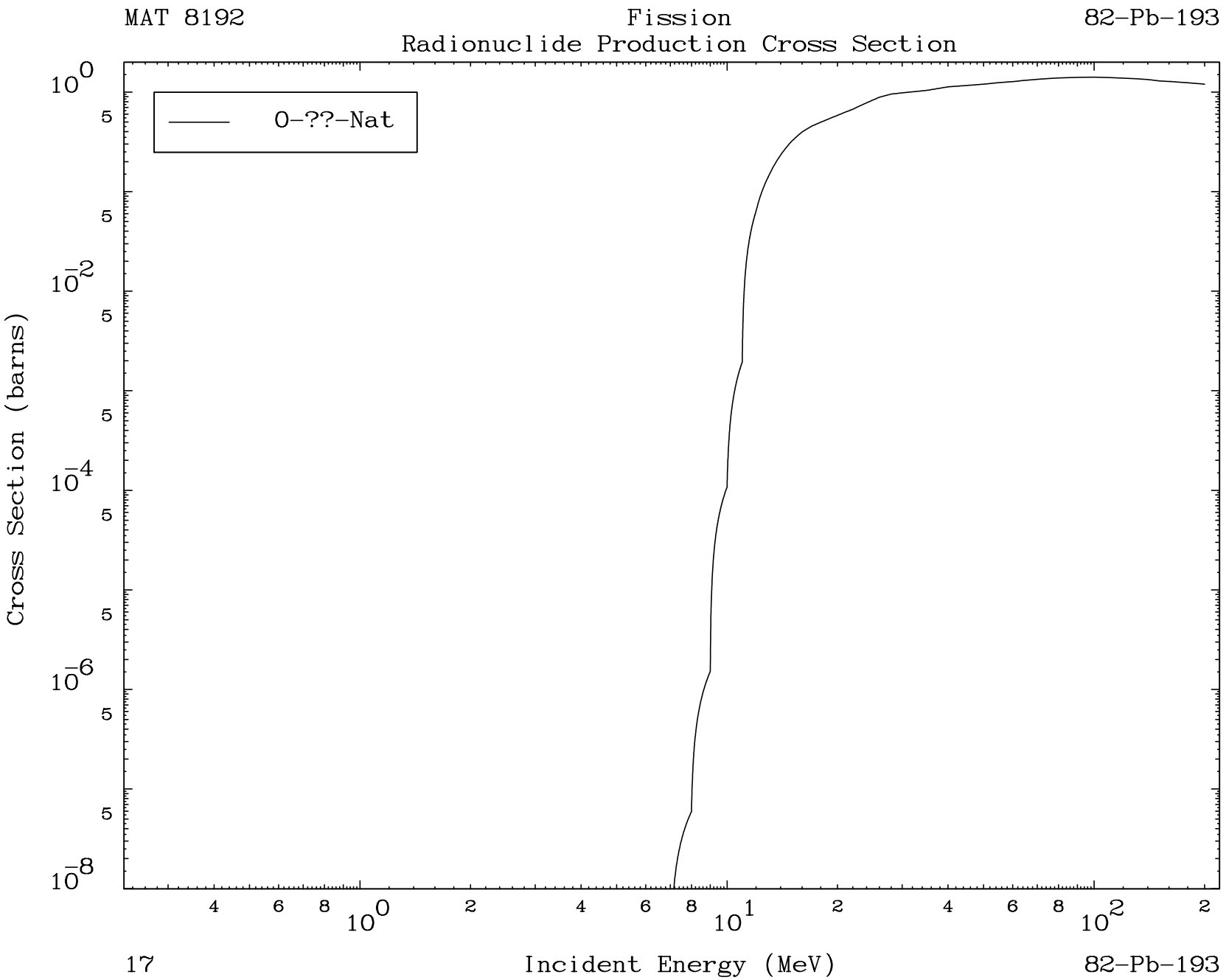

MAT 8192
(d,α) Levels
82-Pb-193
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
12
82-Pb-193

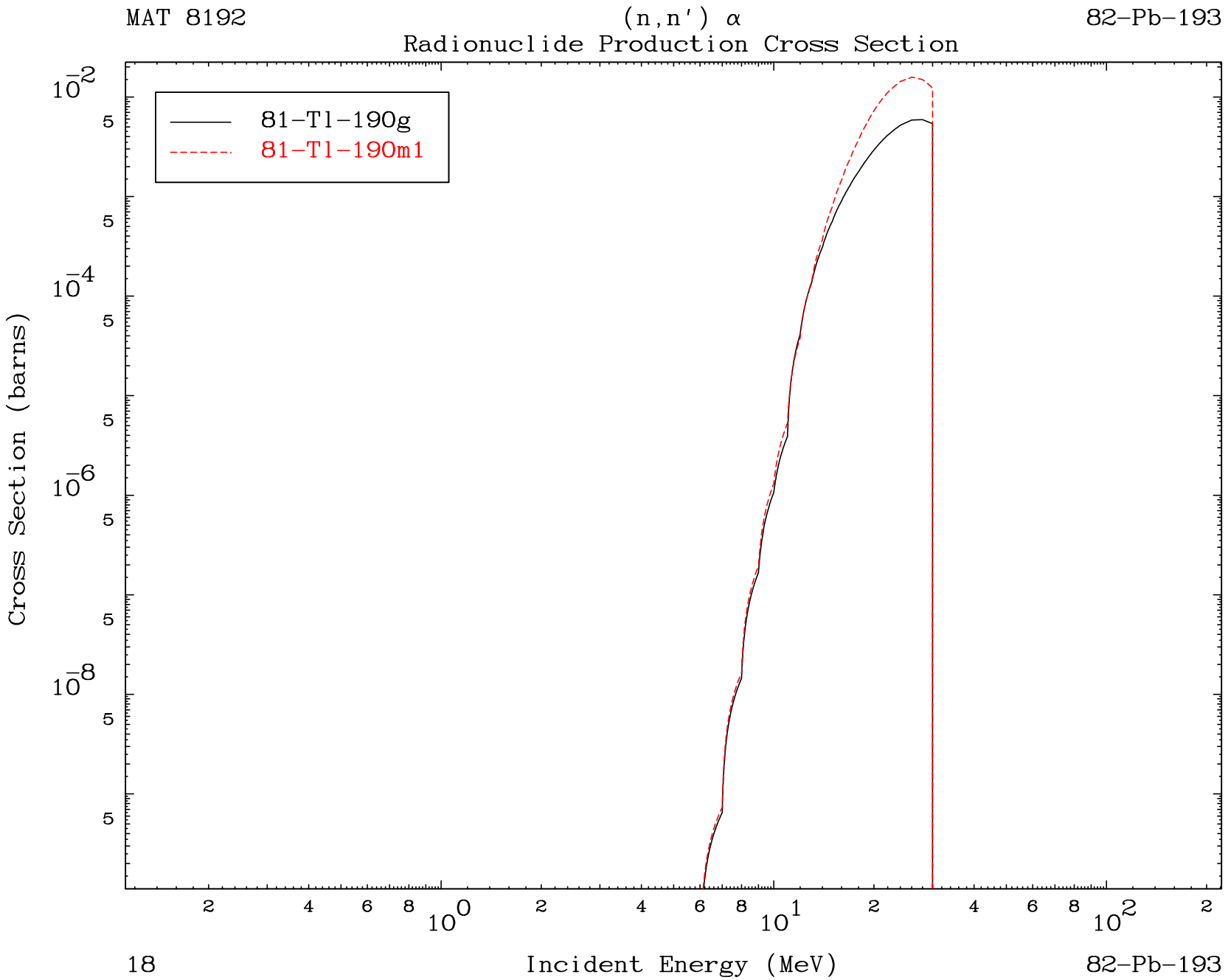

MAT 8192
Inelastic
82-Pb-193
Radionuclide Production Cross Section
83-Bi-194g
83-Bi-194m1
83-Bi-194m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
101
102
13
Incident Energy (MeV)
82-Pb-193

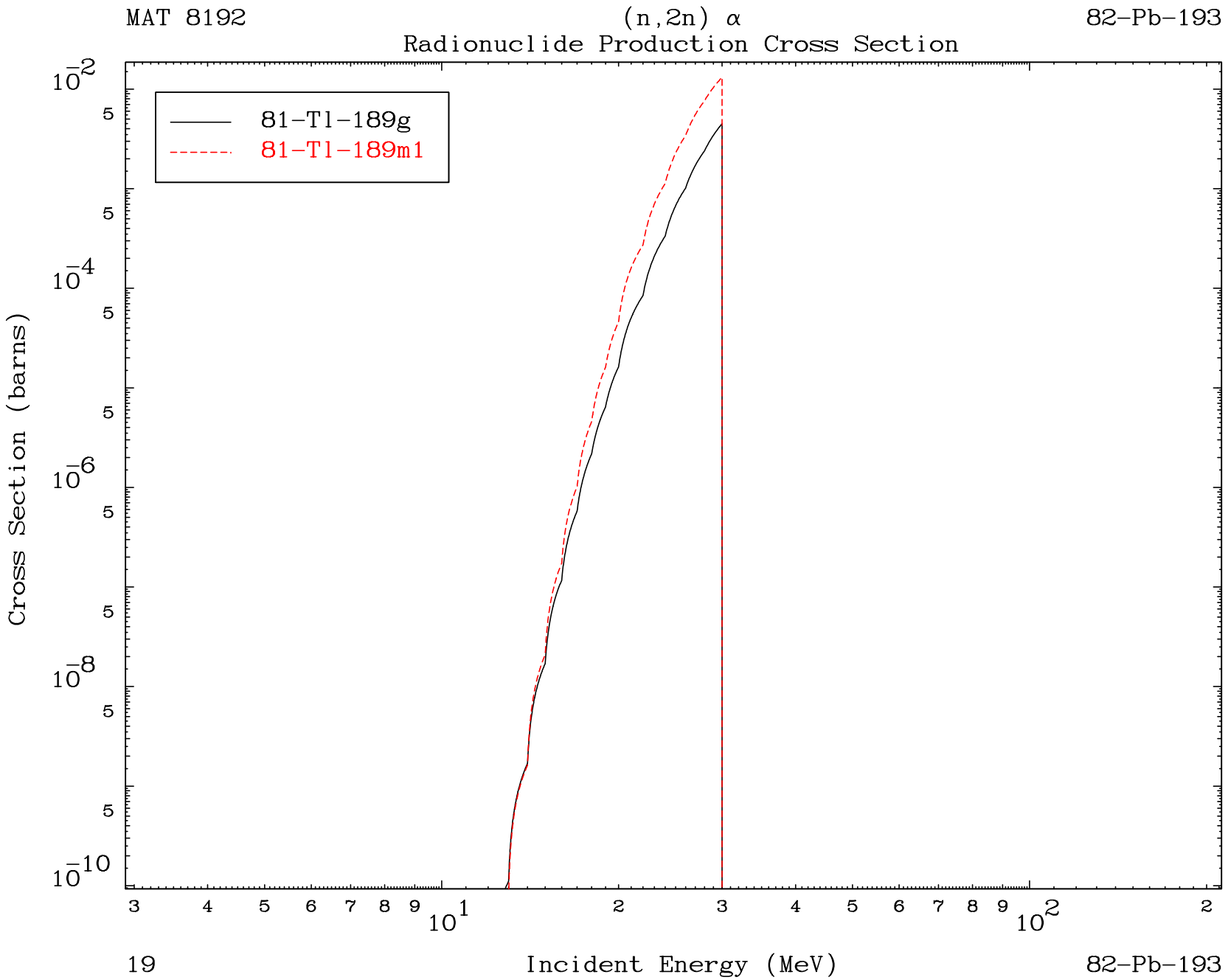

MAT 8192
(n,2n) d
82-Pb-193
Radionuclide Production Cross Section
82-Pb-191g
82-Pb-191m1
Cross Section (barns)
Incident Energy (MeV)
14
82-Pb-193

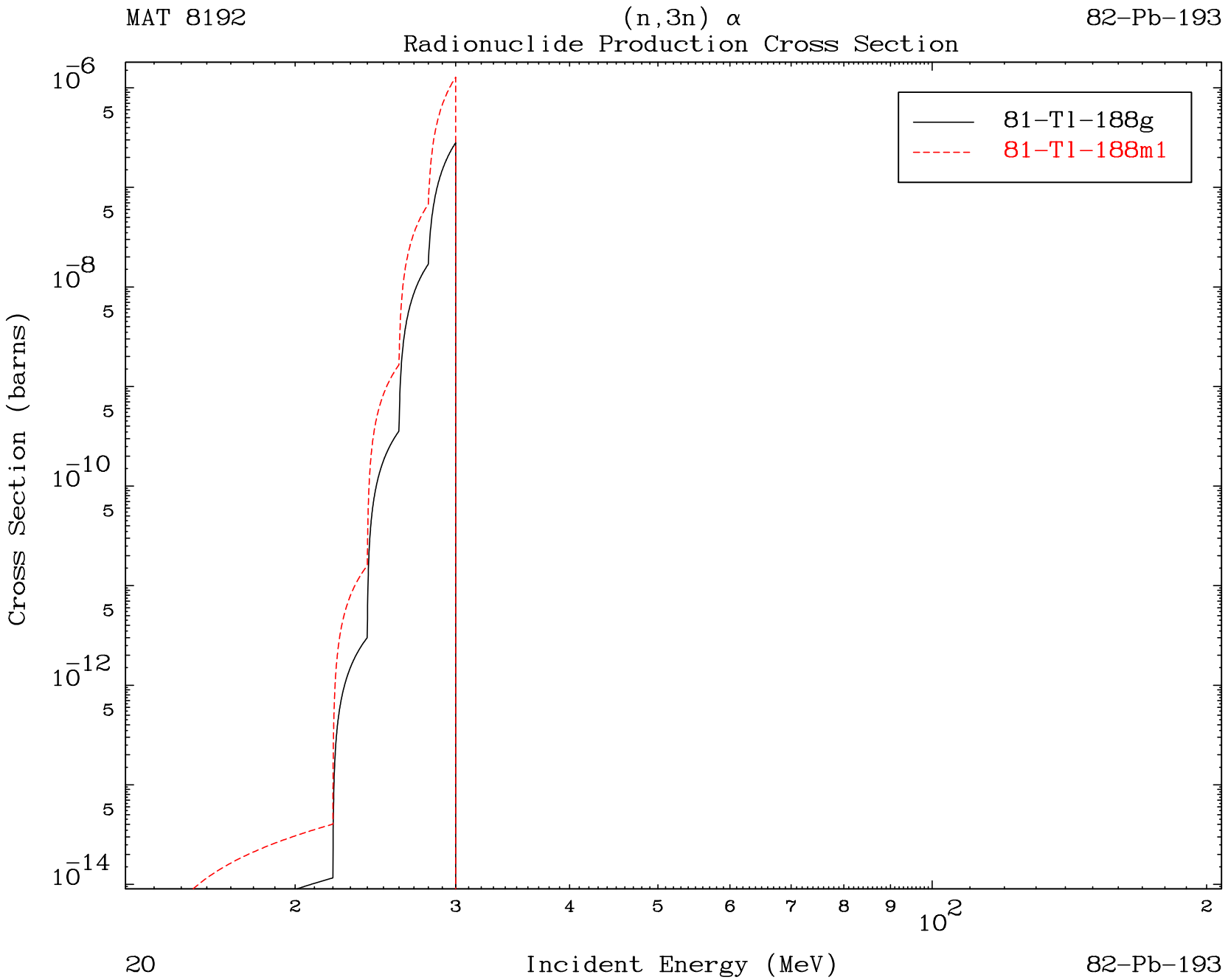

MAT 8192
(n,2n)
82-Pb-193
Radionuclide Production Cross Section
83-Bi-193g
83-Bi-193m2
Cross Section (barns)
10^-1
10^-2
10^-3
10^-4
10^-5
5
10^1
2
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
82-Pb-193

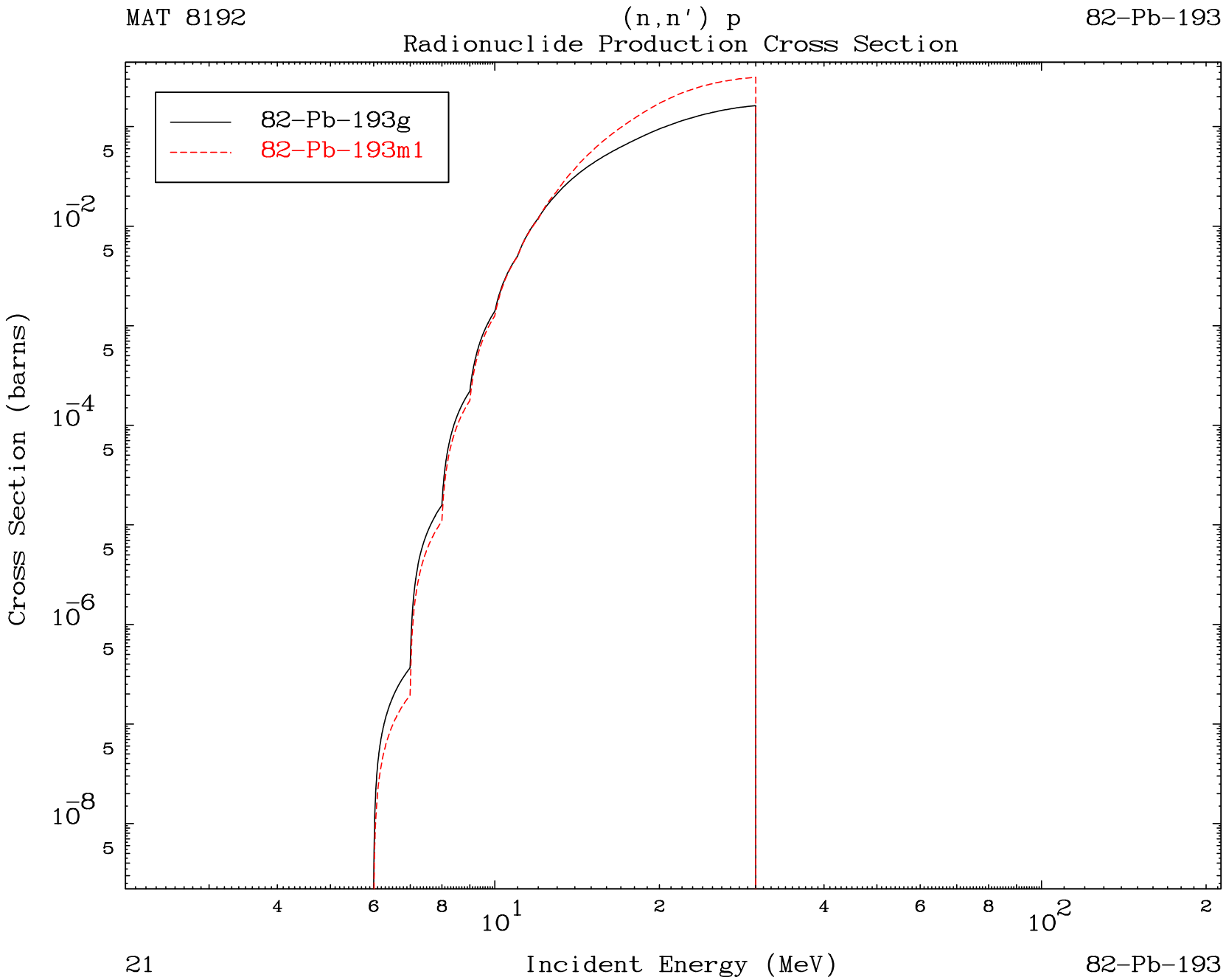

MAT 8192
(n,3n)
82-Pb-193
Radionuclide Production Cross Section
83-Bi-192g
83-Bi-192m1
Cross Section (barns)
Incident Energy (MeV)
16
82-Pb-193

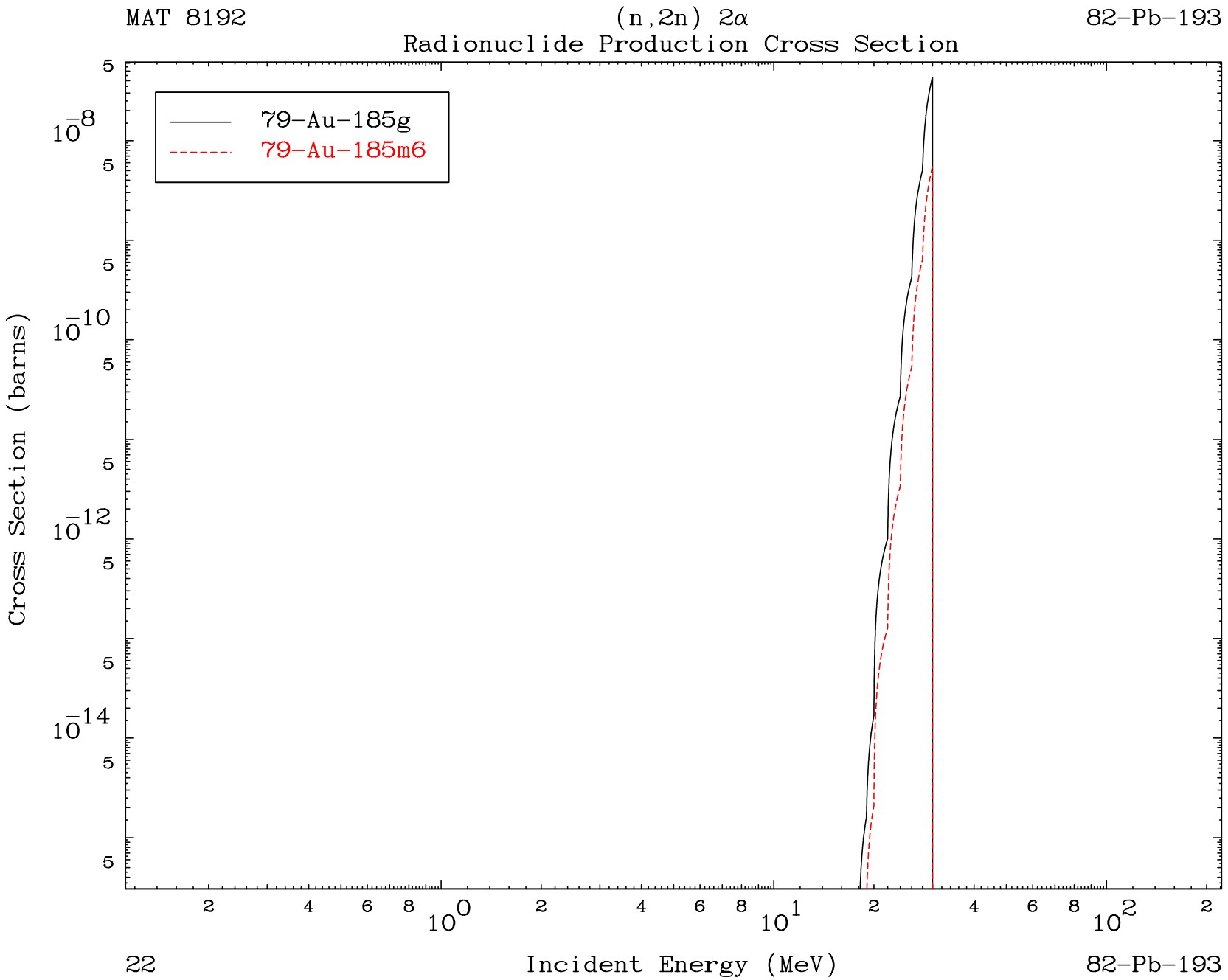

MAT 8192
Fission
82-Pb-193
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
17
82-Pb-193

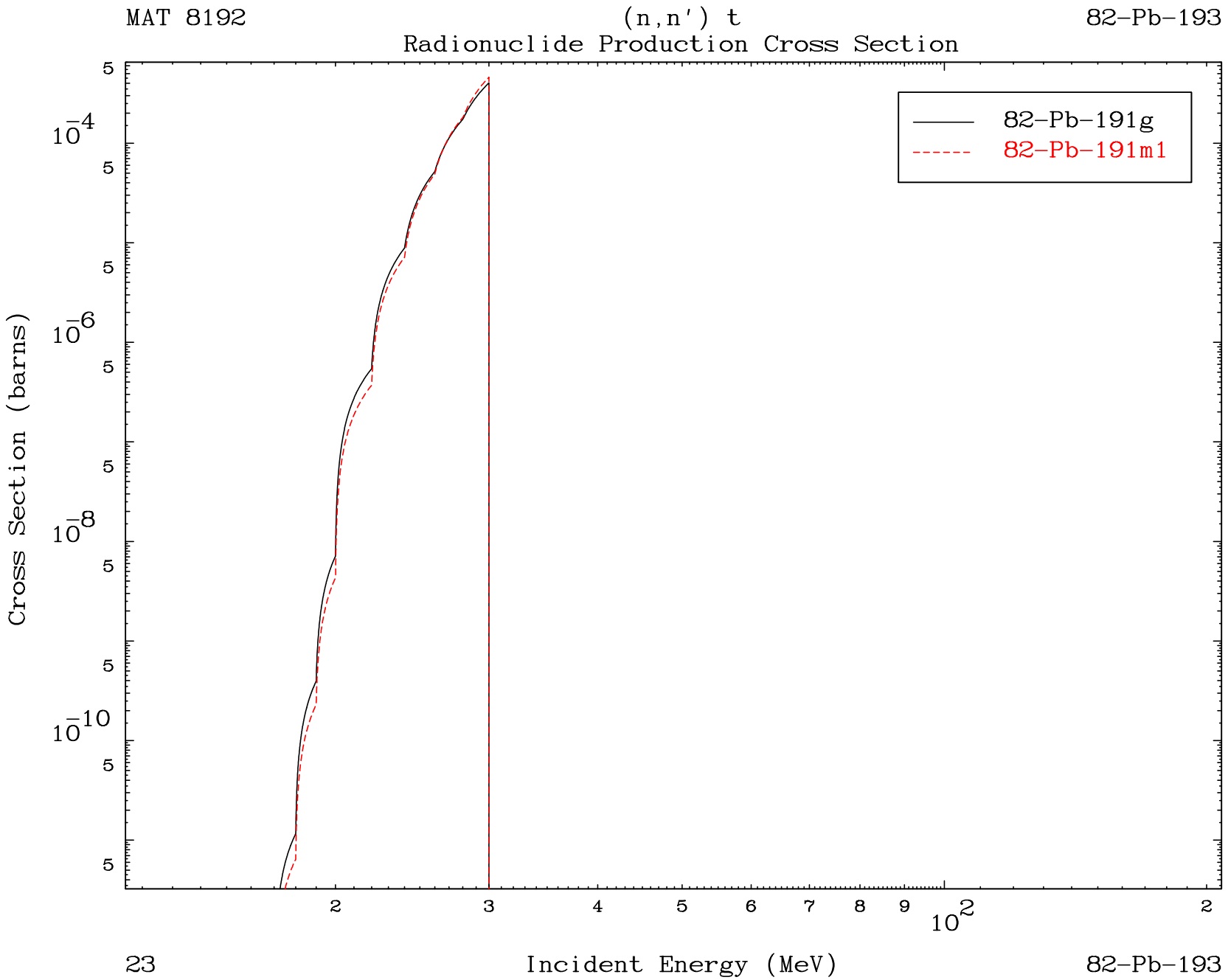

MAT 8192
(n,n') α
82-Pb-193
Radionuclide Production Cross Section
81-Tl-190g
81-Tl-190m1
Cross Section (barns)
Incident Energy (MeV)
18
82-Pb-193

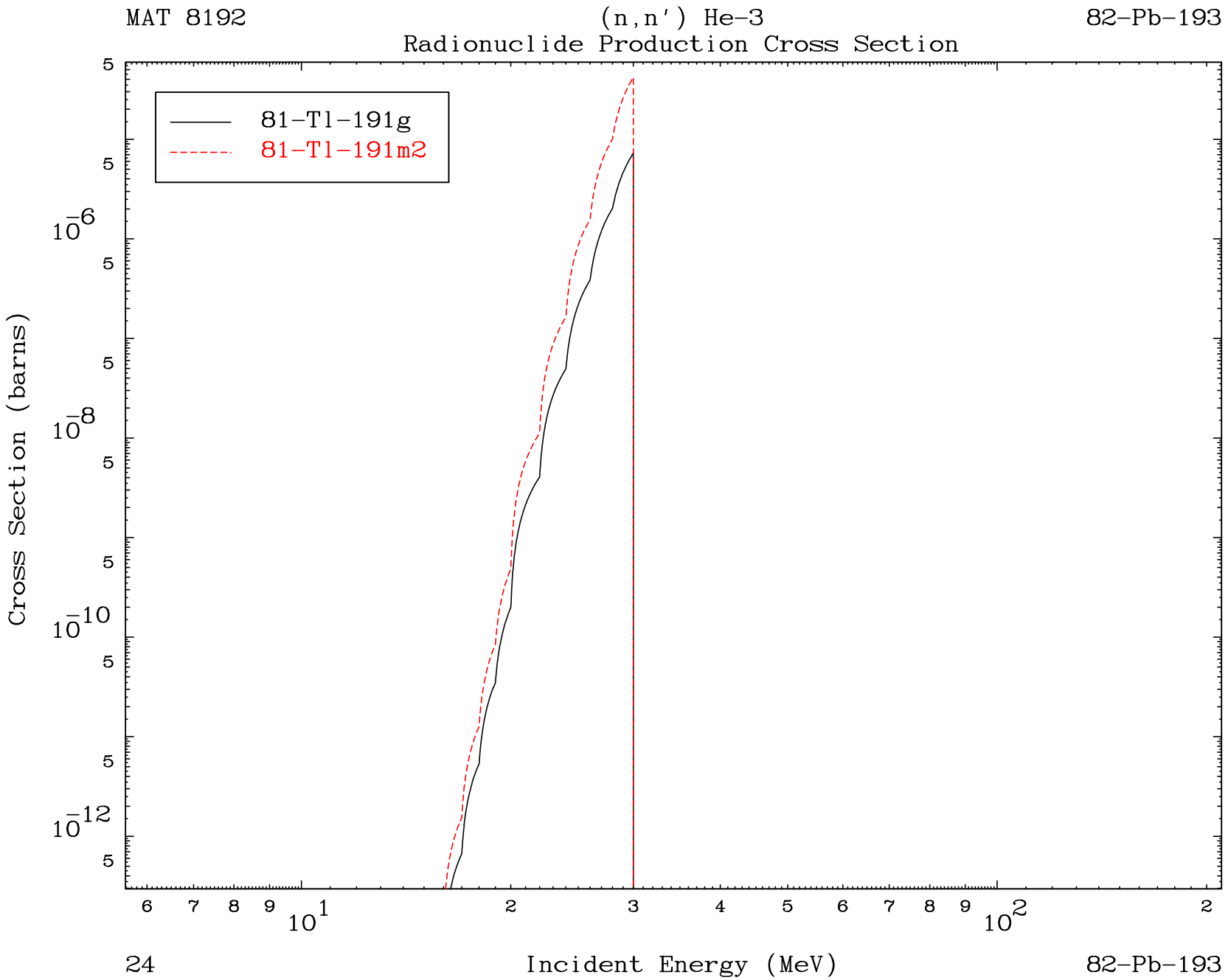

MAT 8192
(n,2n) α
82-Pb-193
Radionuclide Production Cross Section
81-Tl-189g
81-Tl-189m1
Cross Section (barns)
Incident Energy (MeV)
19
82-Pb-193

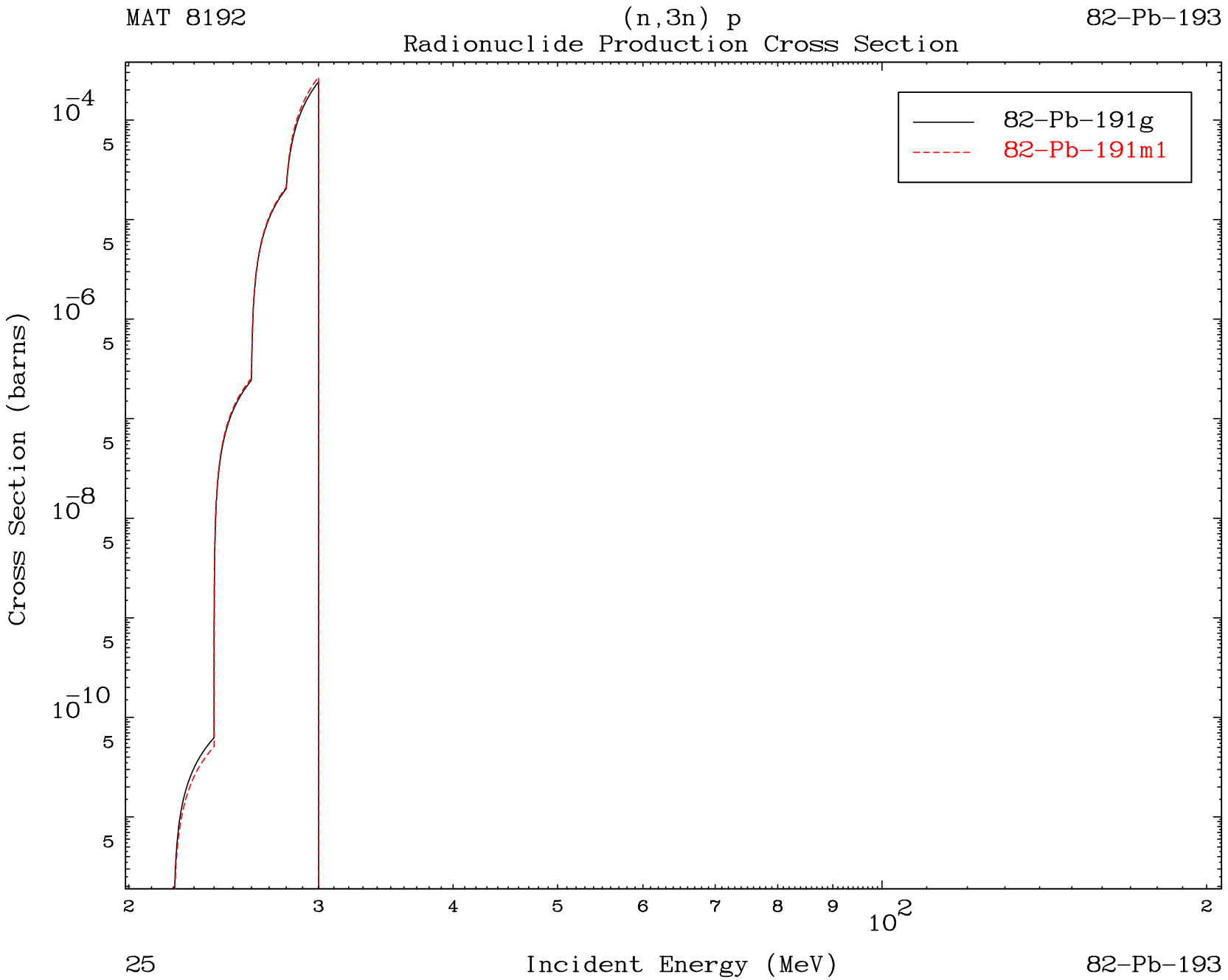

MAT 8192
(n,3n) α
82-Pb-193
Radionuclide Production Cross Section
81-Tl-188g
81-Tl-188m1
Cross Section (barns)
10-6
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
82-Pb-193

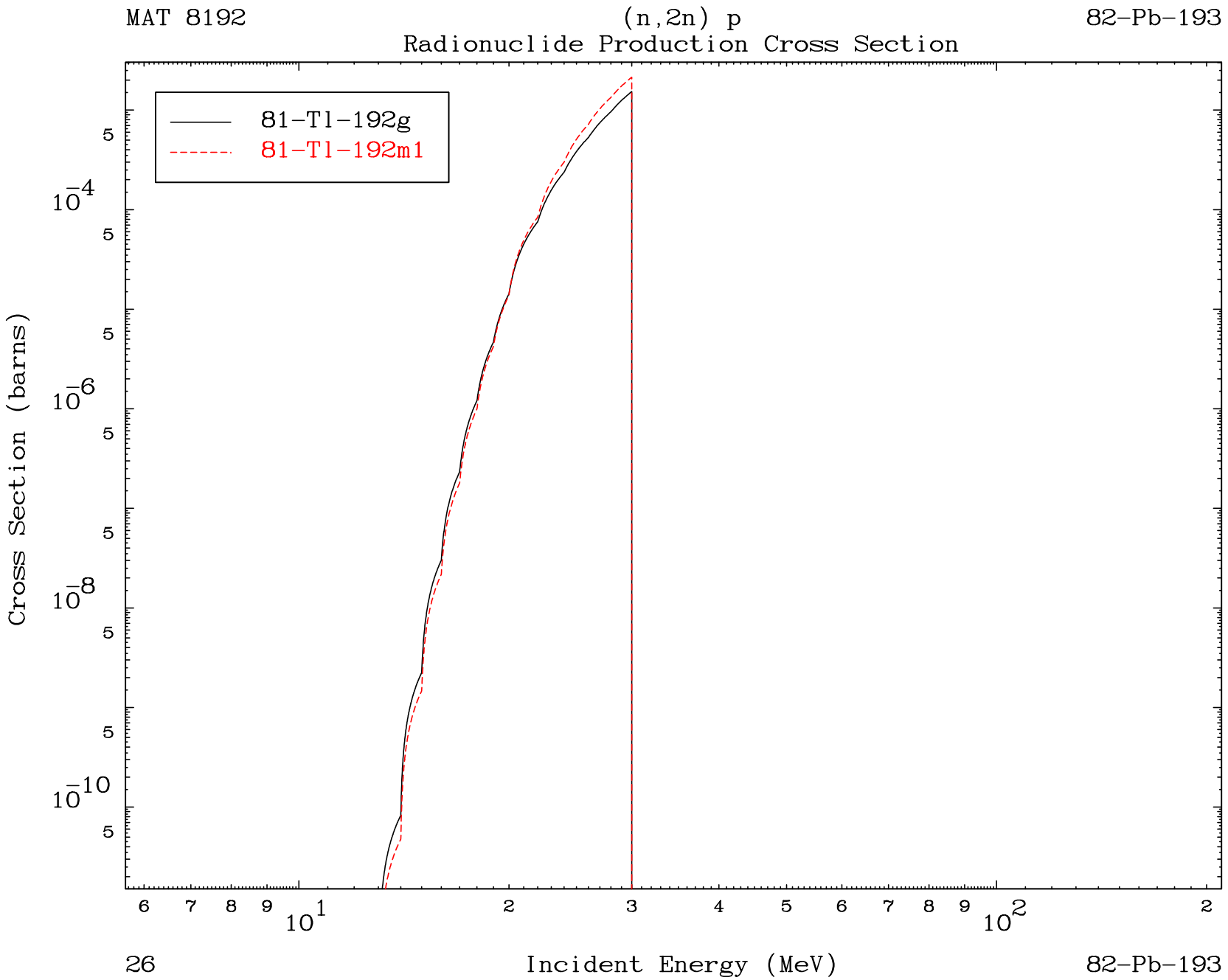

MAT 8192
(n,n') p
82-Pb-193
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
Incident Energy (MeV)
21
82-Pb-193

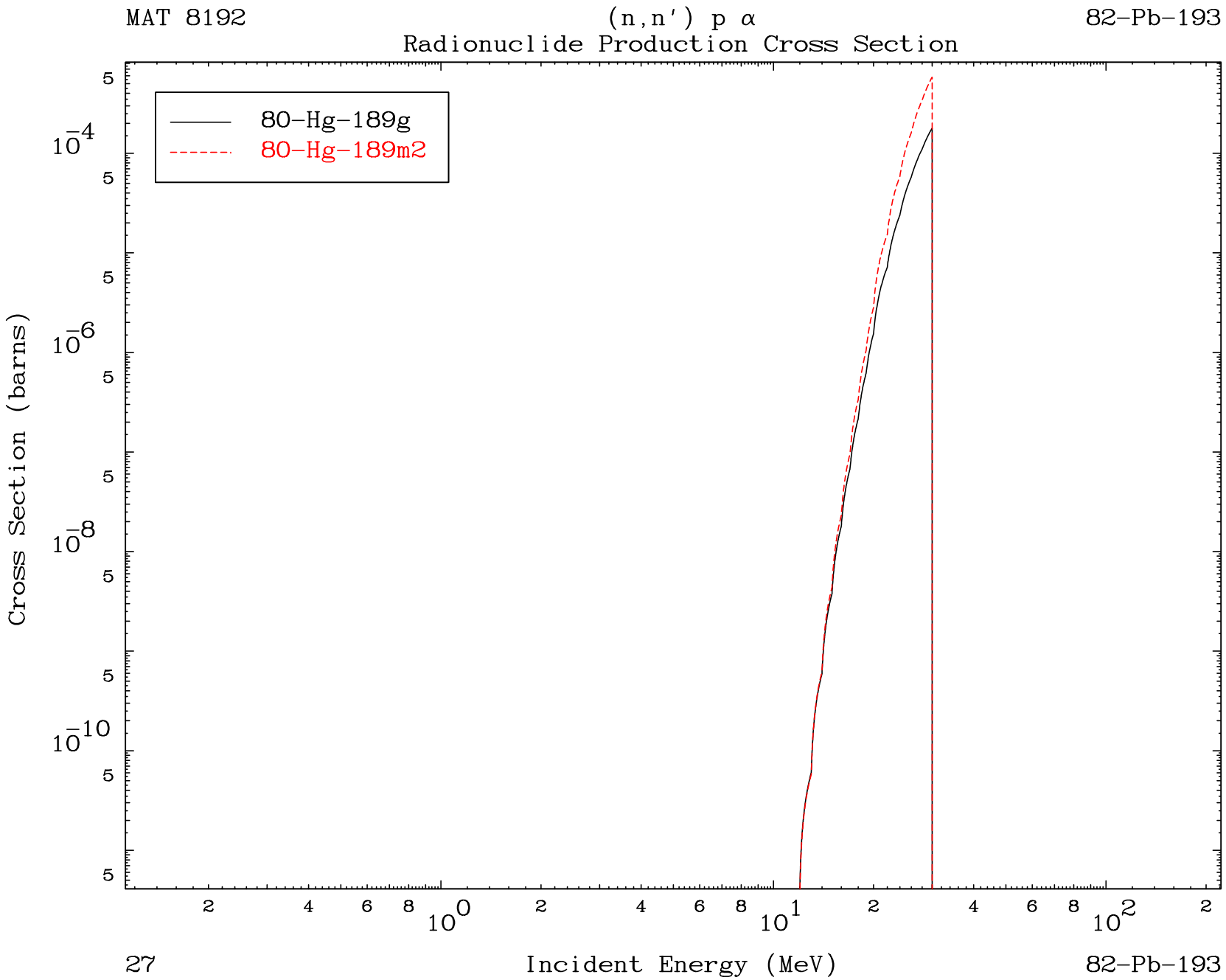

MAT 8192
(n,2n) 2α
82-Pb-193
Radionuclide Production Cross Section
79-Au-185g
79-Au-185m6
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
10^0
10^1
10^2
Incident Energy (MeV)
22
82-Pb-193

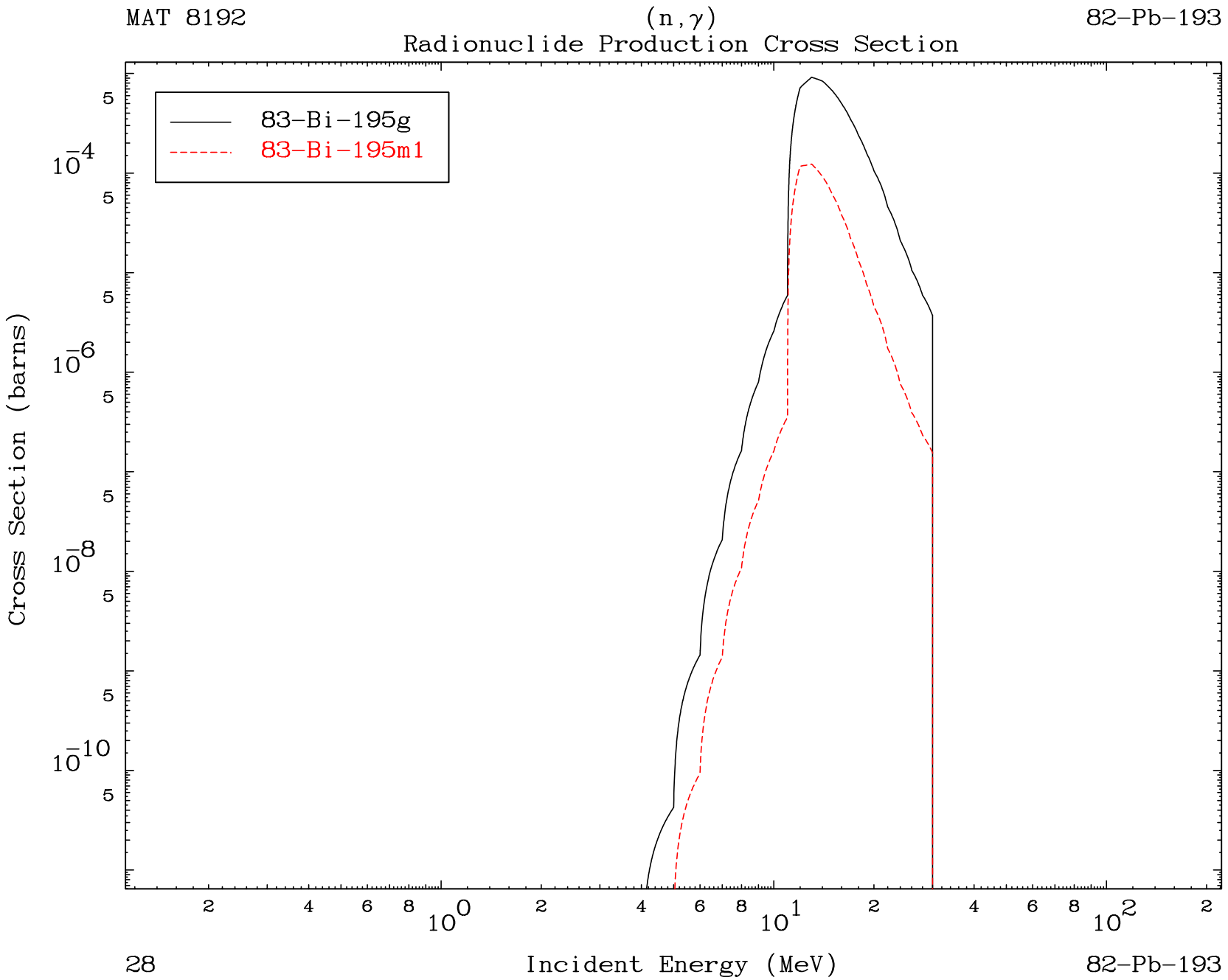

MAT 8192
(n,n') t
82-Pb-193
Radionuclide Production Cross Section
82-Pb-191g
82-Pb-191m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
23
Incident Energy (MeV)
82-Pb-193

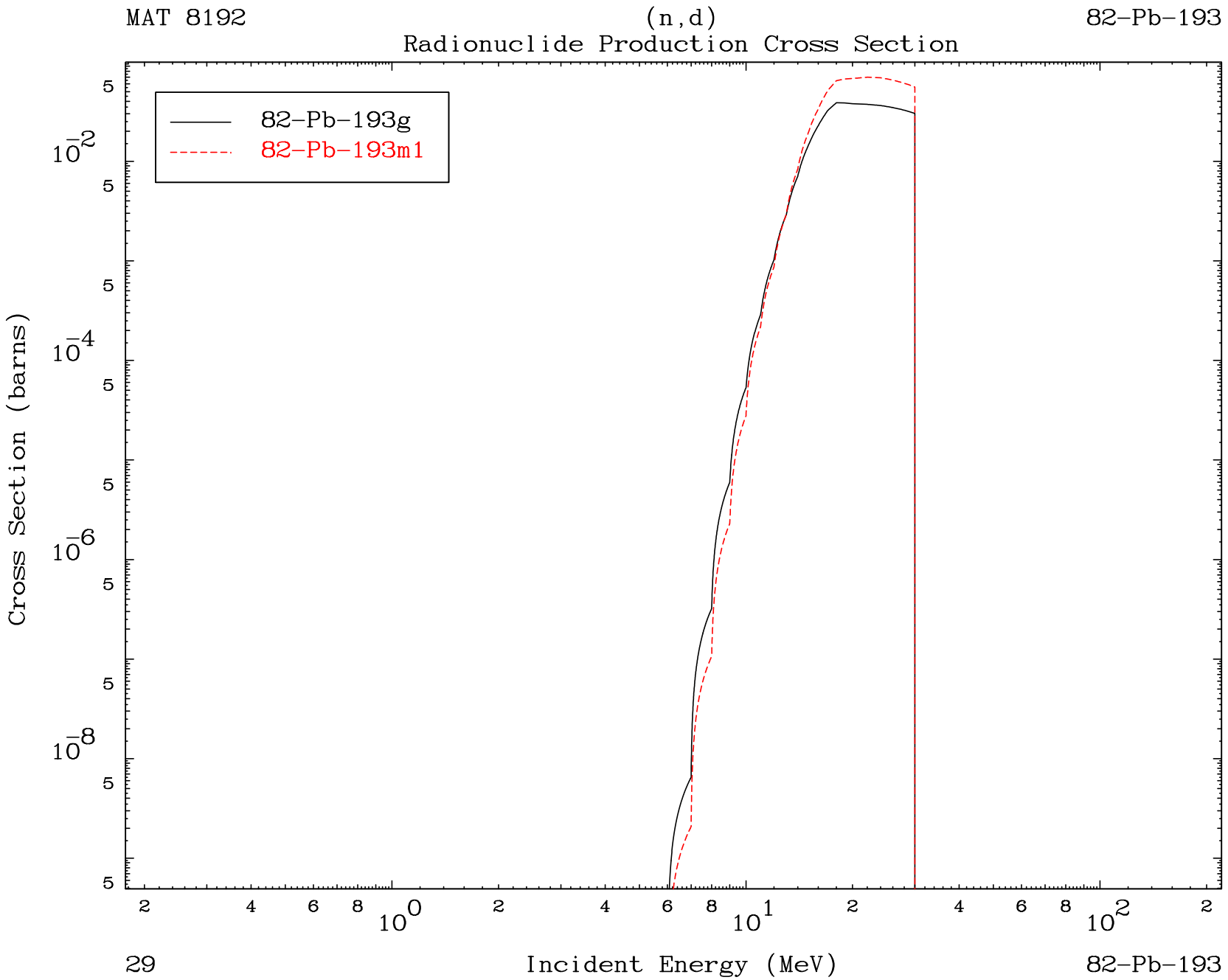

MAT 8192
(n,n') He-3
82-Pb-193
Radionuclide Production Cross Section
81-Tl-191g
81-Tl-191m2
Cross Section (barns)
Incident Energy (MeV)
24
82-Pb-193

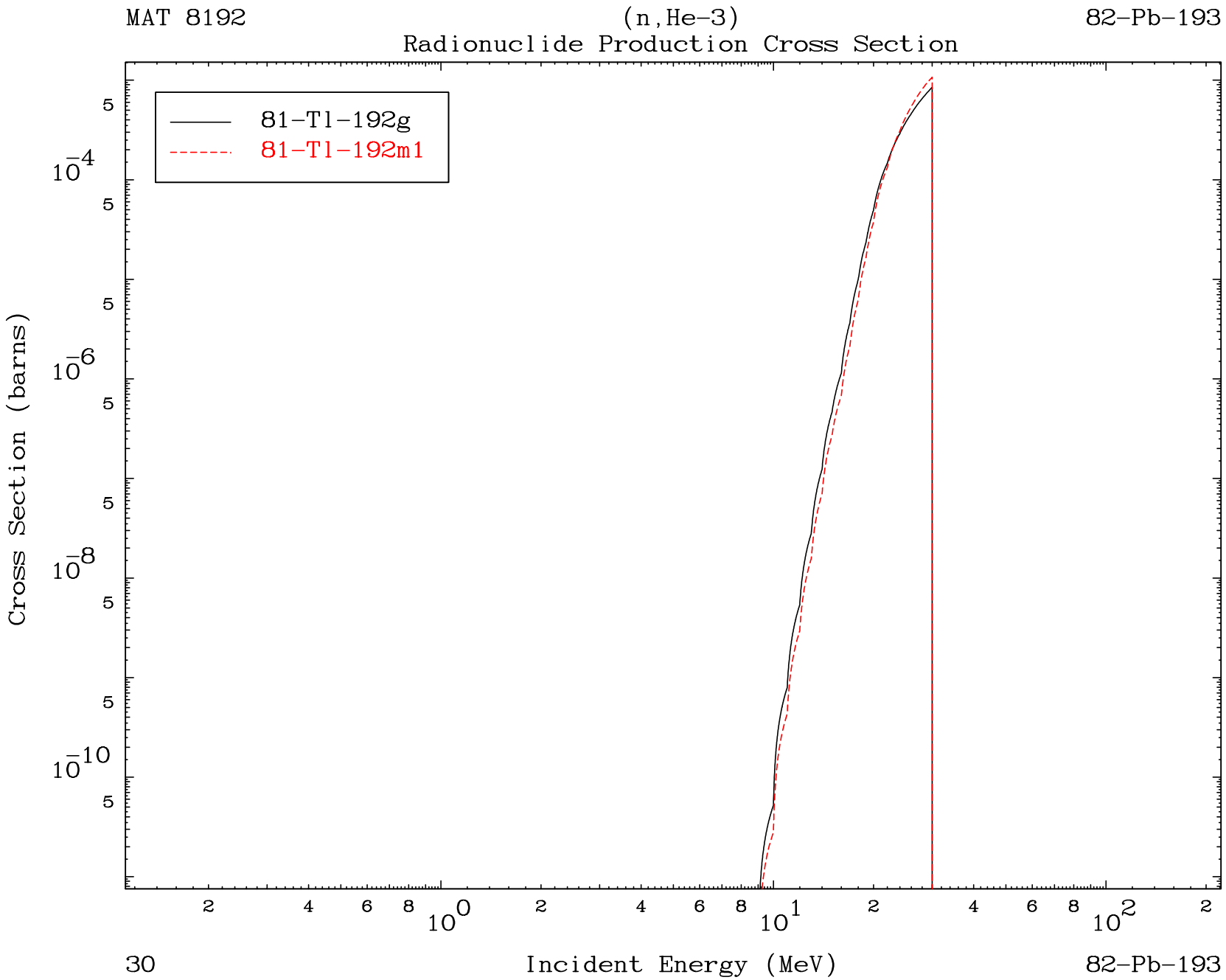

MAT 8192
(n,3n) p
82-Pb-193
Radionuclide Production Cross Section
82-Pb-191g
82-Pb-191m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10^2
25
82-Pb-193

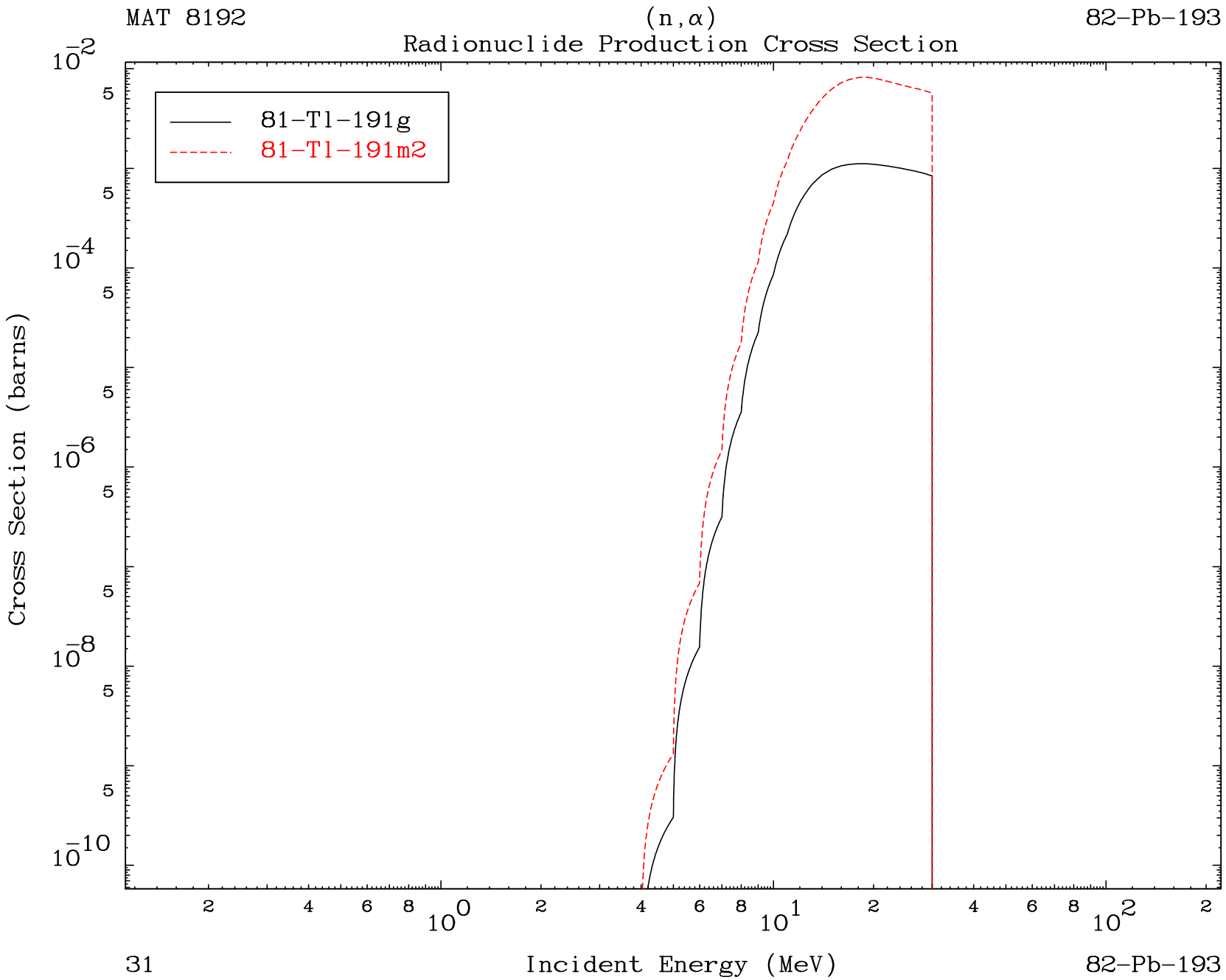

MAT 8192
(n,2n) p
82-Pb-193
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
26
82-Pb-193

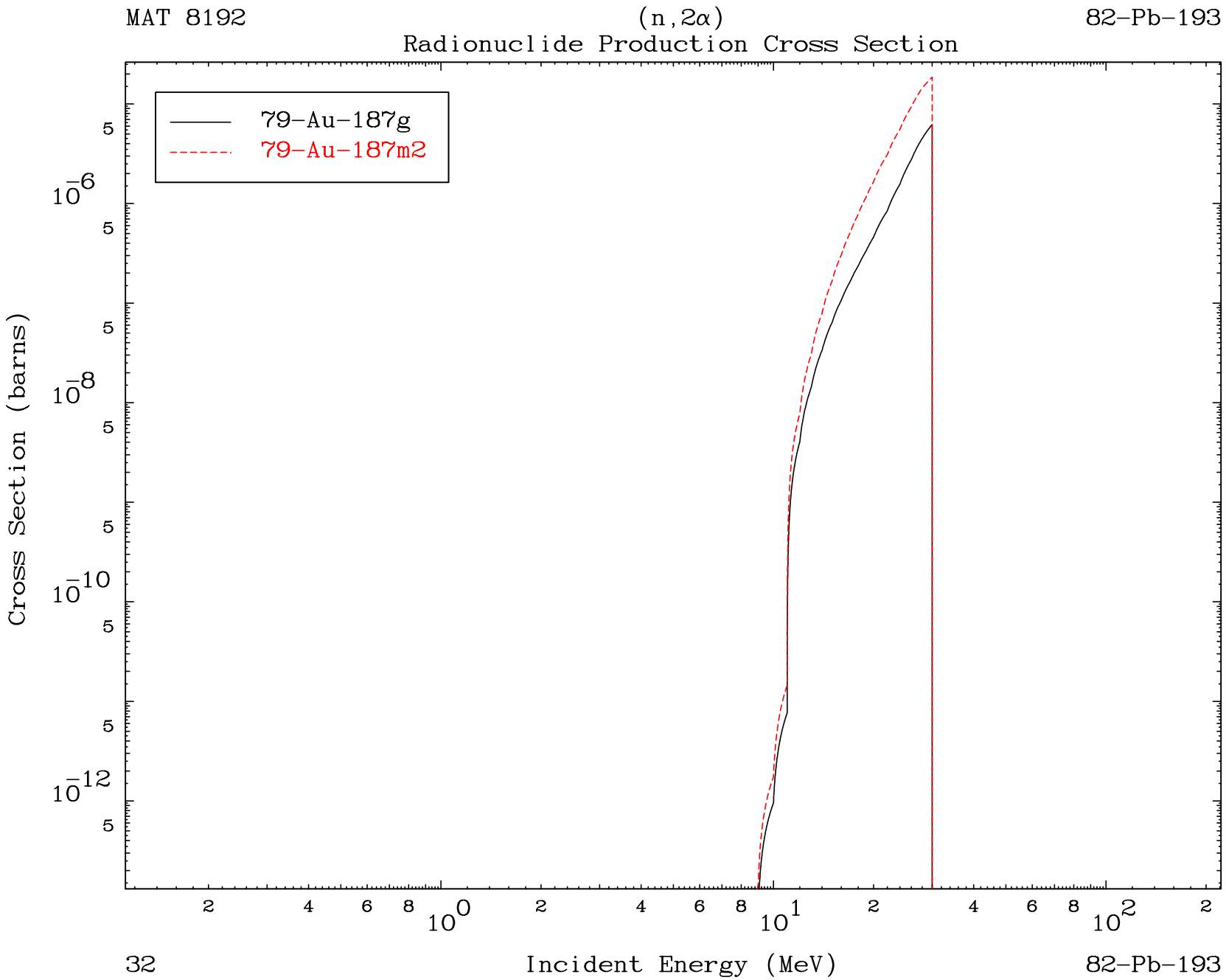

MAT 8192
(n,n') p α
82-Pb-193
Radionuclide Production Cross Section
80-Hg-189g
80-Hg-189m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
27
82-Pb-193

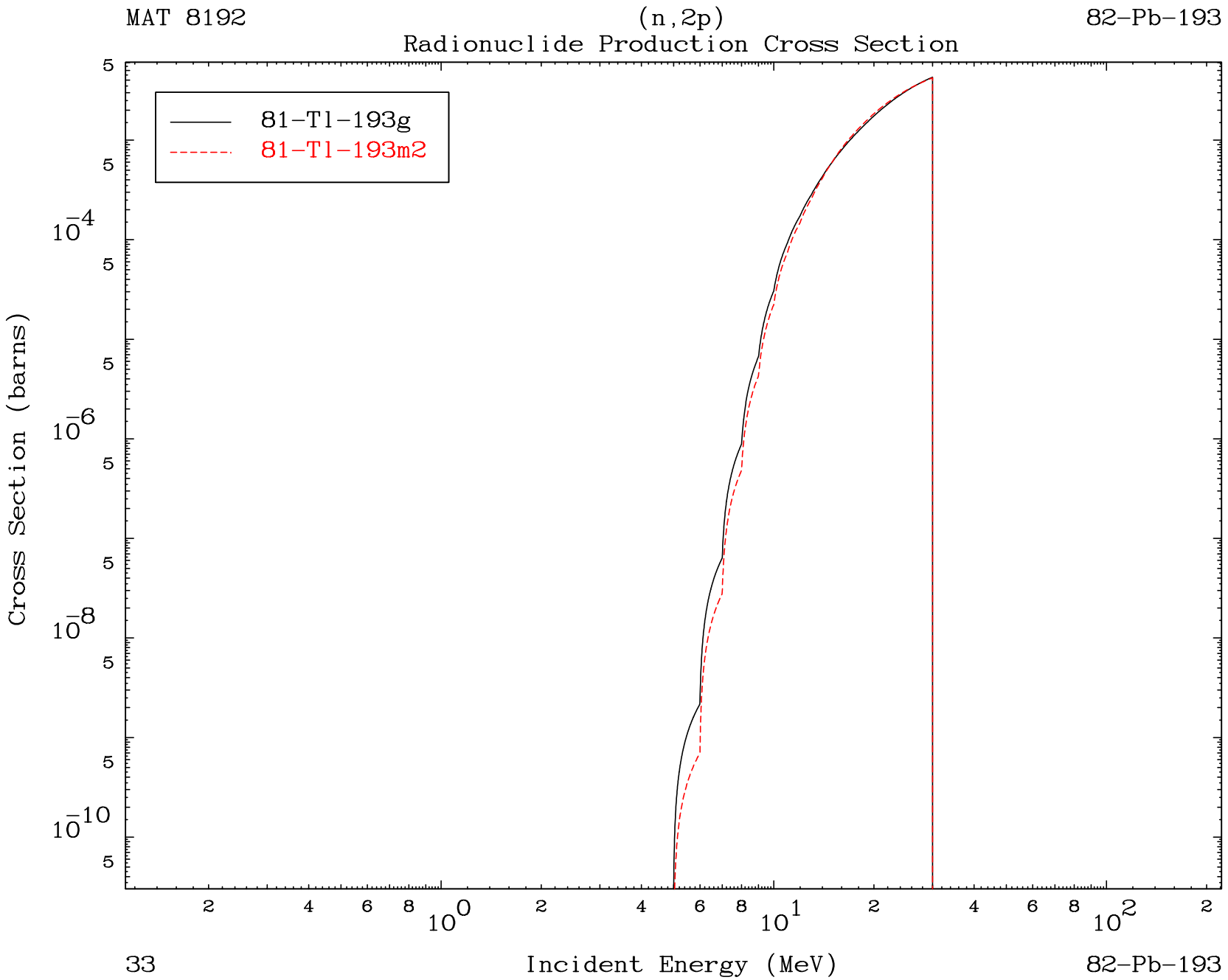

MAT 8192
(n,γ)
82-Pb-193
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
28
82-Pb-193

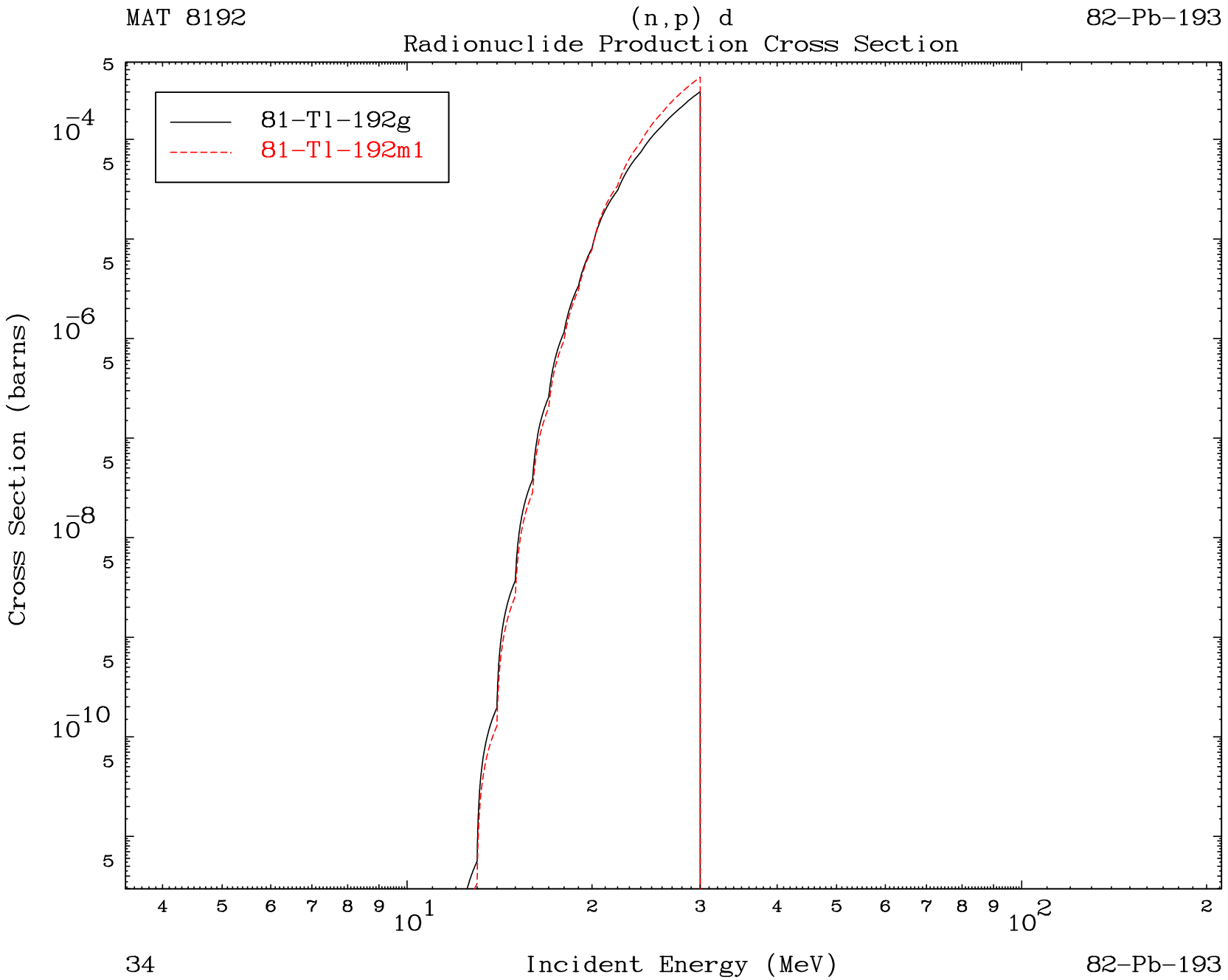

MAT 8192
(n,d)
82-Pb-193
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
Incident Energy (MeV)
29
82-Pb-193

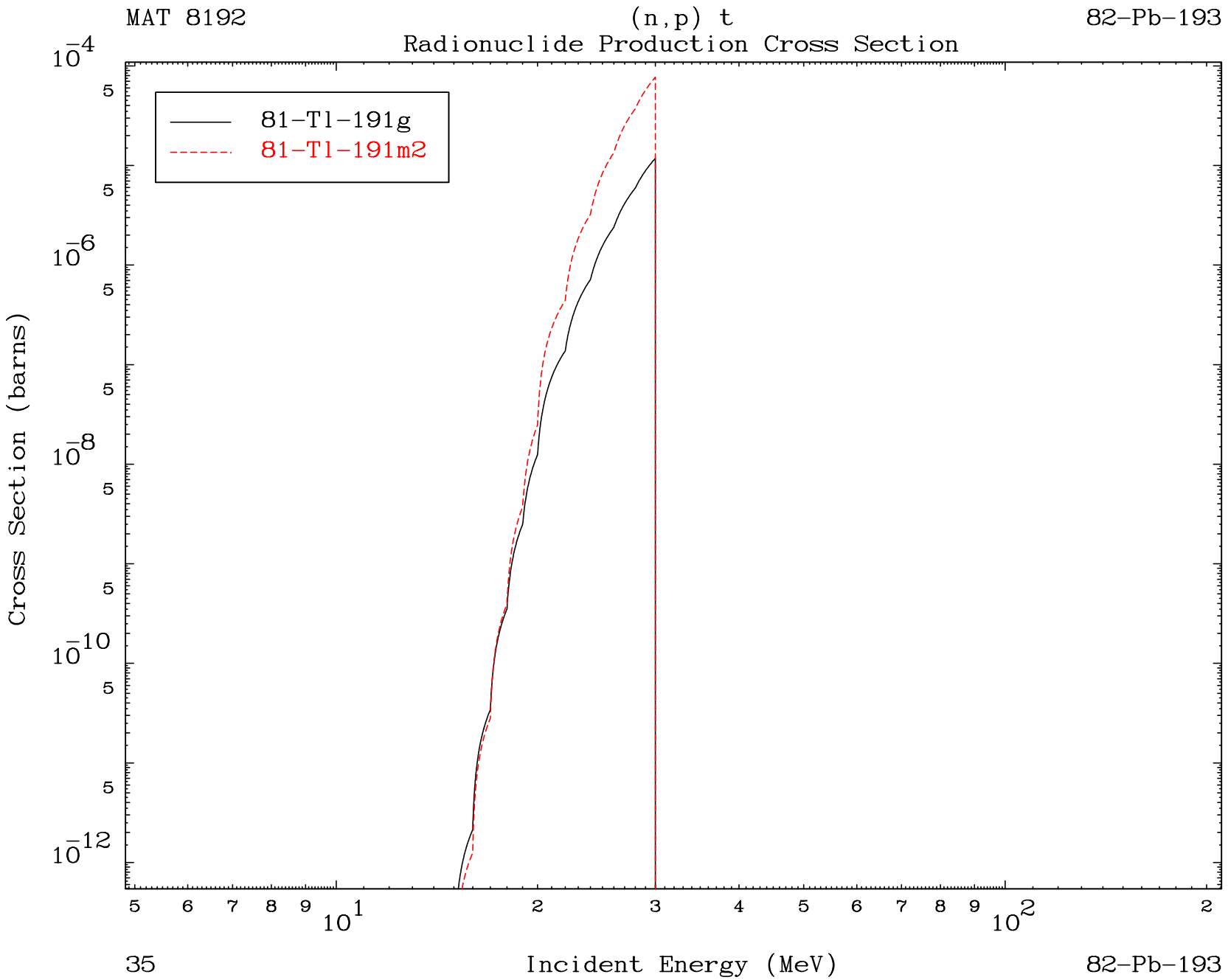

MAT 8192
(n,He-3)
82-Pb-193
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
Incident Energy (MeV)
30
82-Pb-193

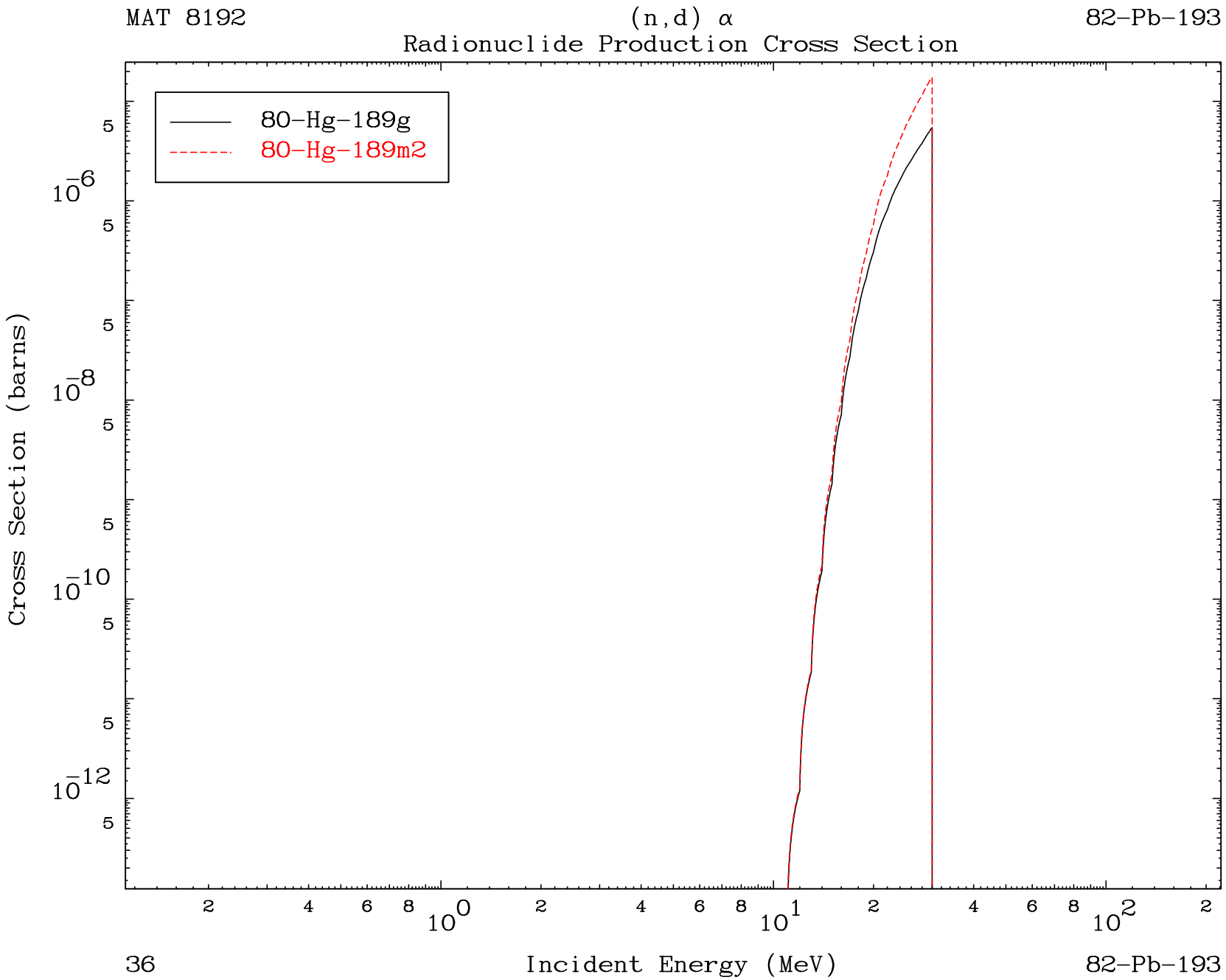

MAT 8192
(n,α)
82-Pb-193
Radionuclide Production Cross Section
81-Tl-191g
81-Tl-191m2
Cross Section (barns)
Incident Energy (MeV)
31
82-Pb-193


MAT 8192
(n,2α)
82-Pb-193
Radionuclide Production Cross Section
79-Au-187g
79-Au-187m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
32
82-Pb-193


MAT 8192
(n,2p)
82-Pb-193
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
33
82-Pb-193


MAT 8192
(n,p) d
82-Pb-193
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
Incident Energy (MeV)
34
82-Pb-193


MAT 8192
(n,p) t
82-Pb-193
Radionuclide Production Cross Section
81-Tl-191g
81-Tl-191m2
Cross Section (barns)
Incident Energy (MeV)
35
82-Pb-193


MAT 8192
(n,d) α
82-Pb-193
Radionuclide Production Cross Section
80-Hg-189g
80-Hg-189m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
36
82-Pb-193