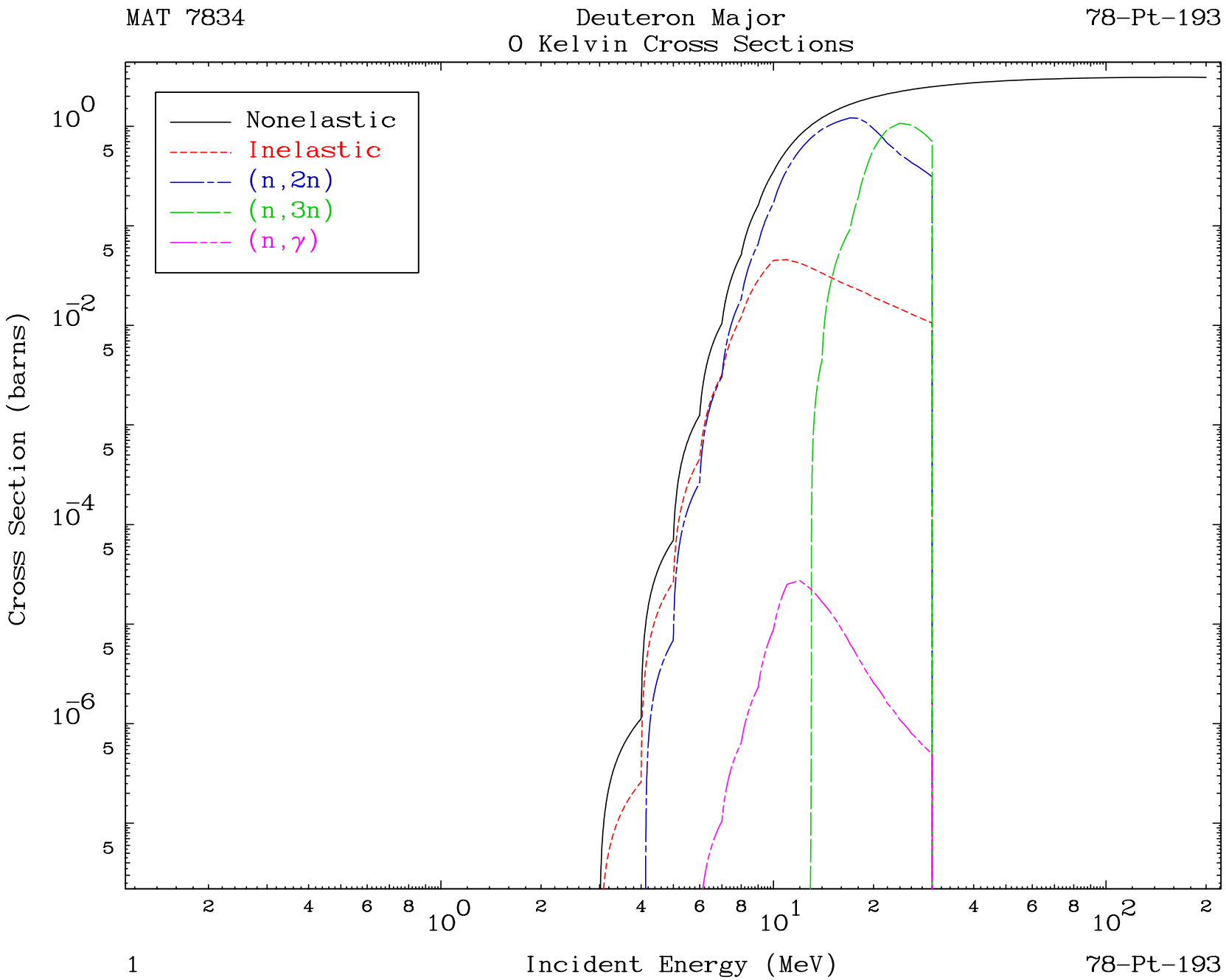
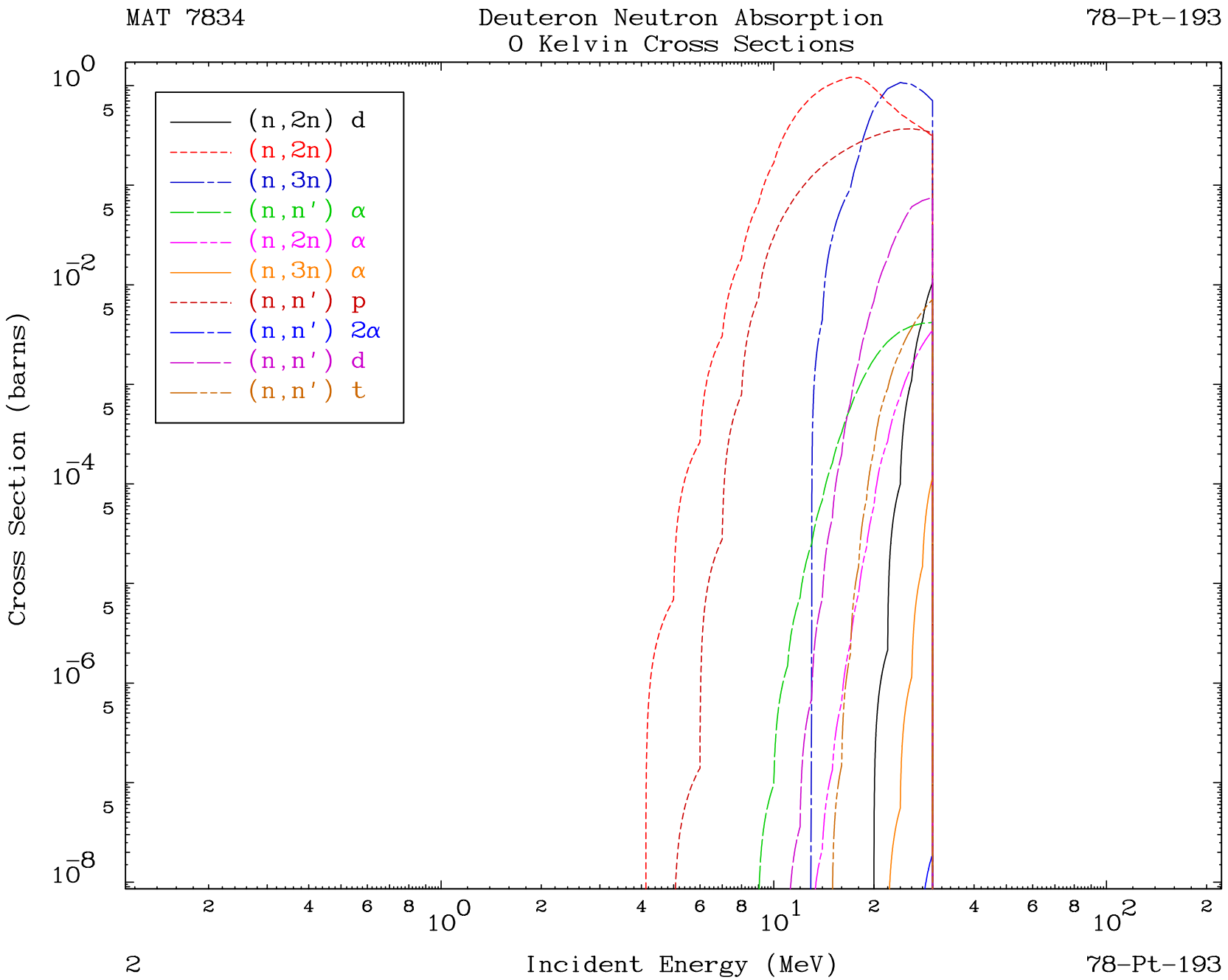
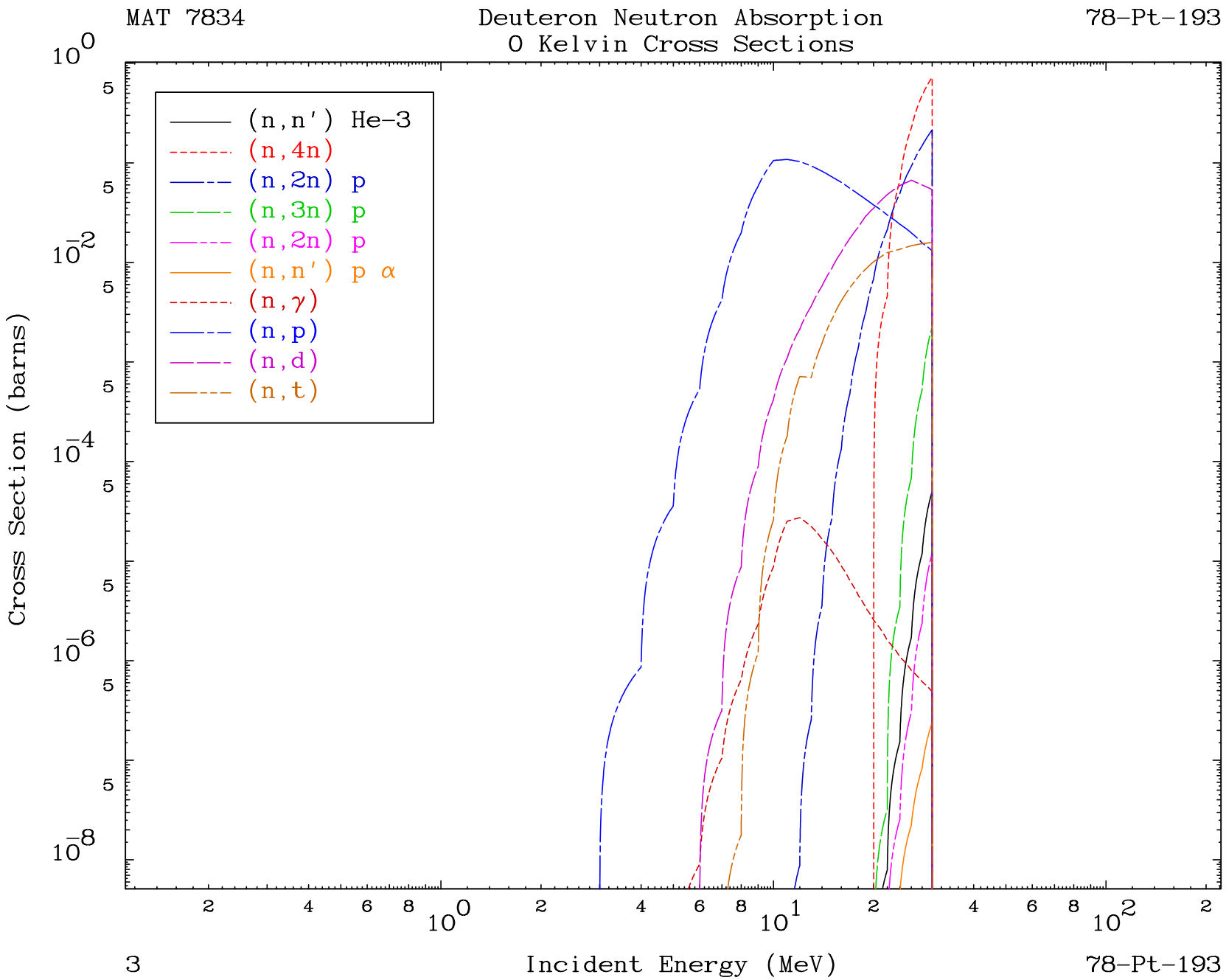
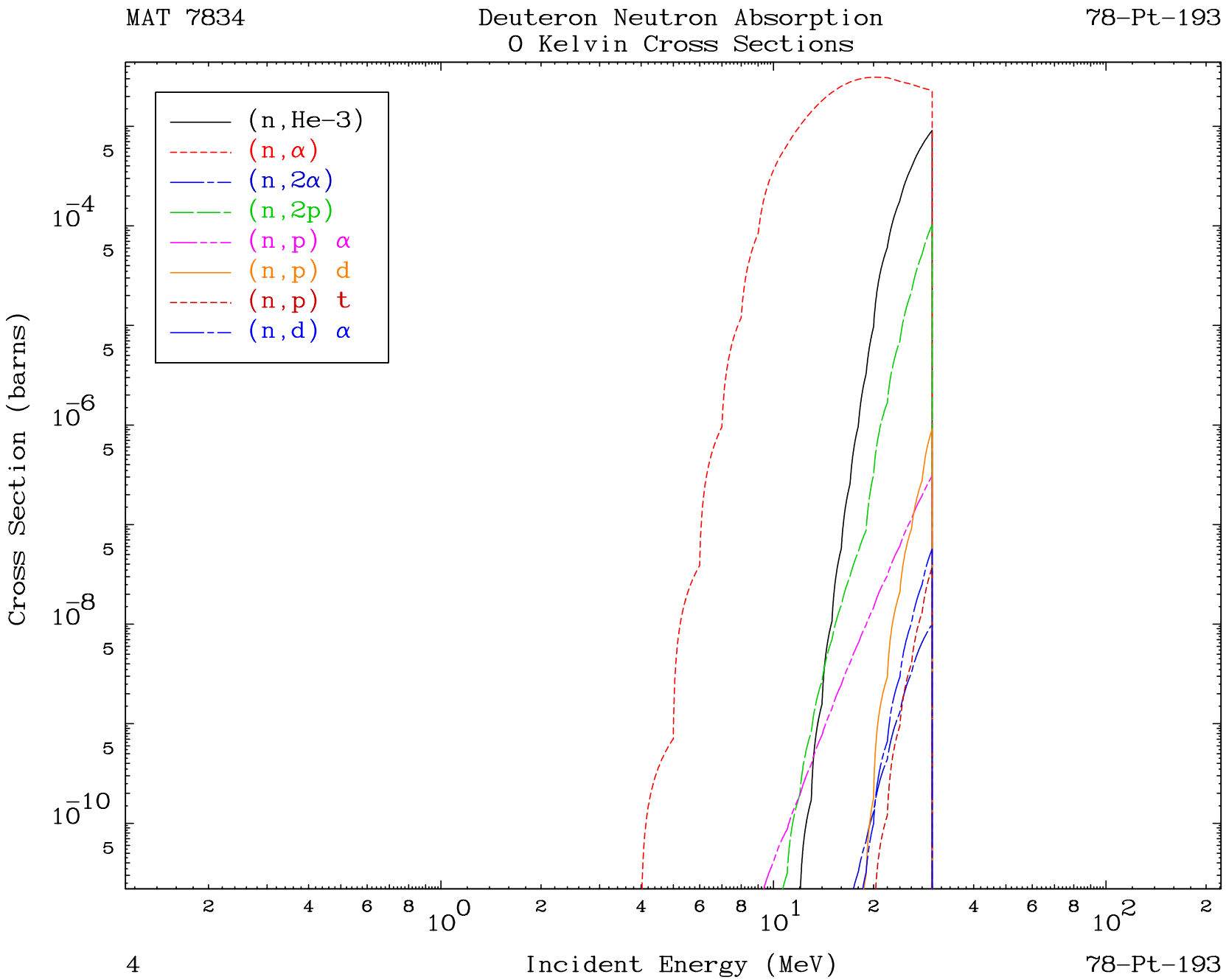
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

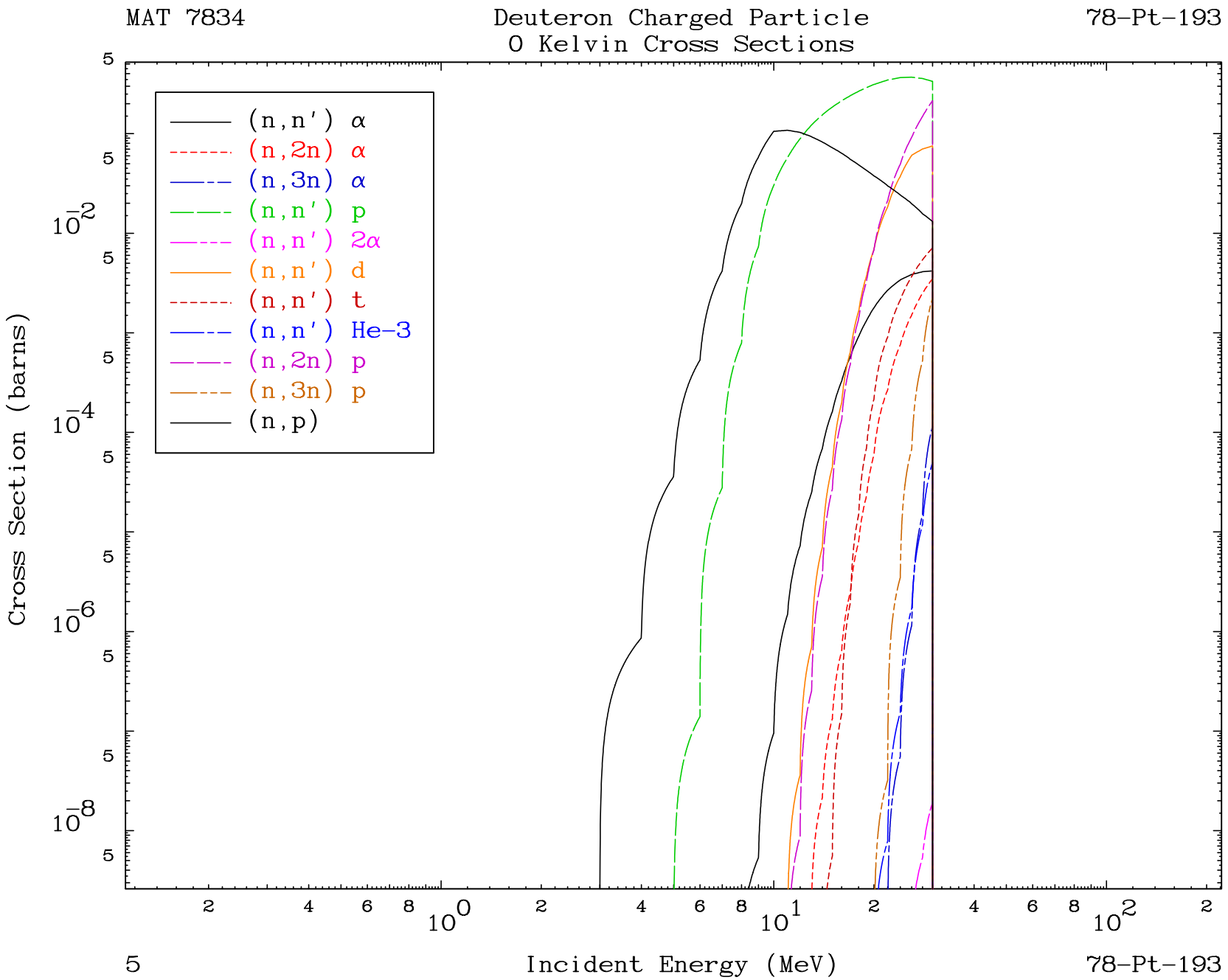
Press Mouse Button to Start

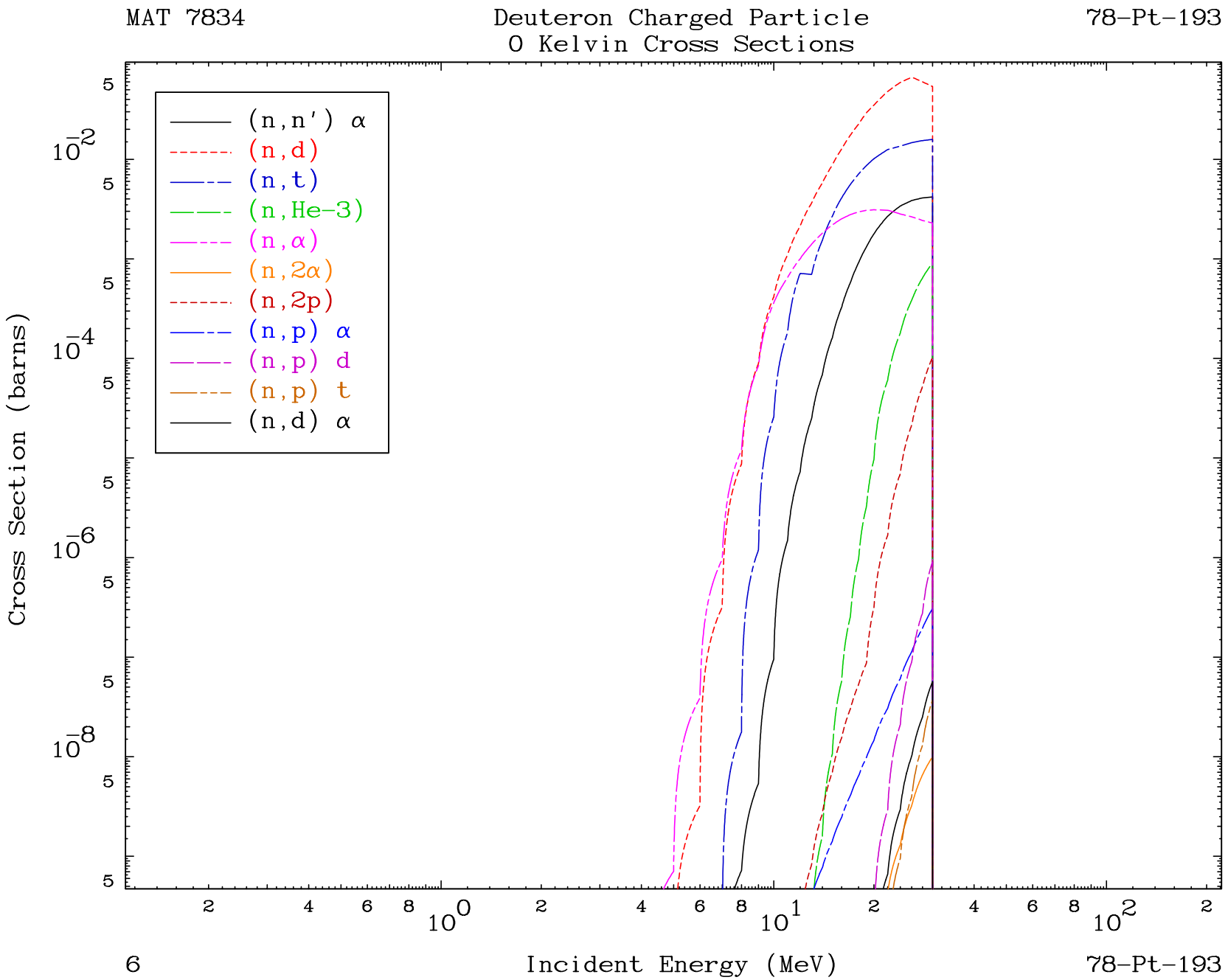

MAT 7834
Deuteron Major
78-Pt-193
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
78-Pt-193
1

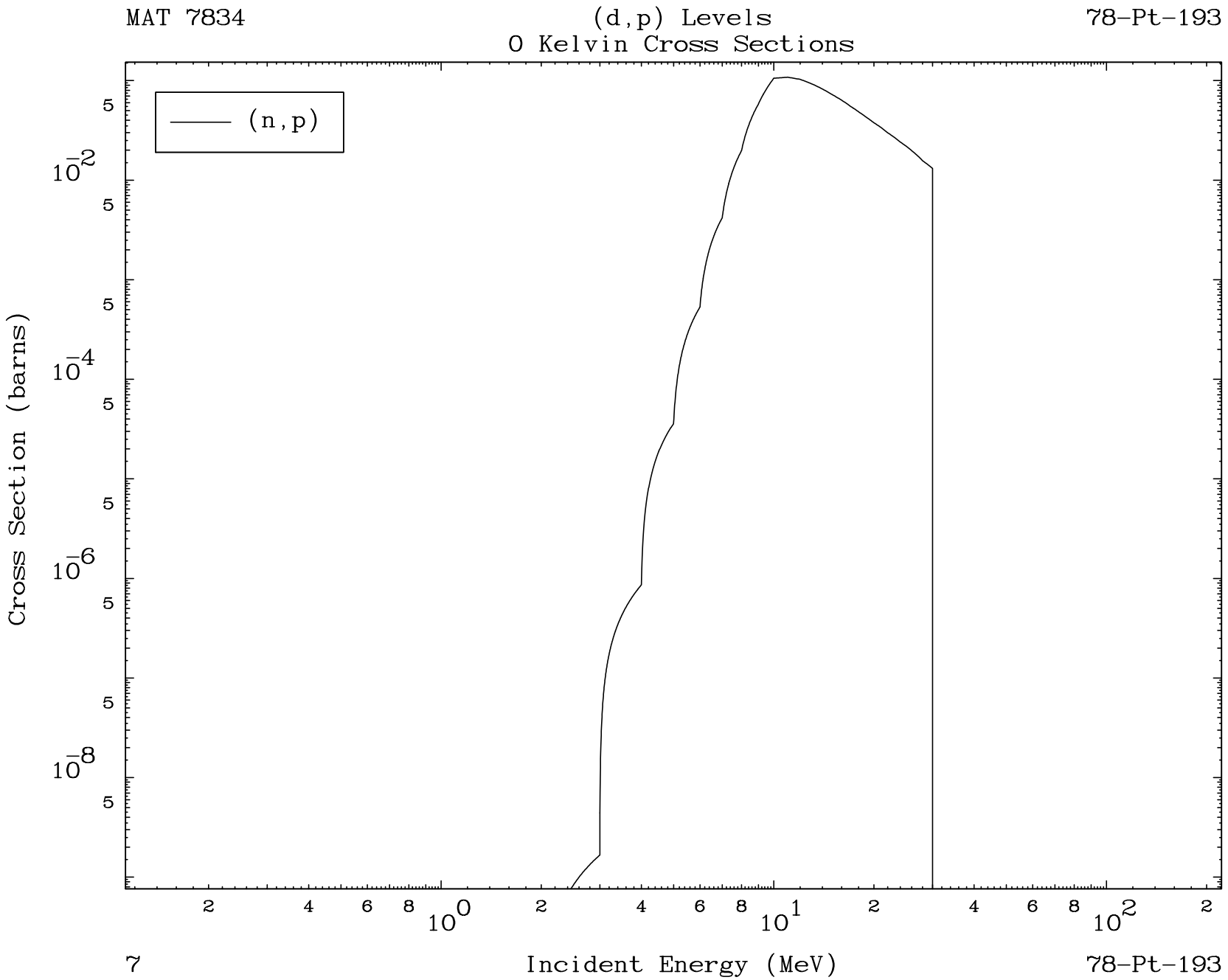

MAT 7834
Deuteron Neutron Absorption
0 Kelvin Cross Sections
78-Pt-193
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
78-Pt-193
2

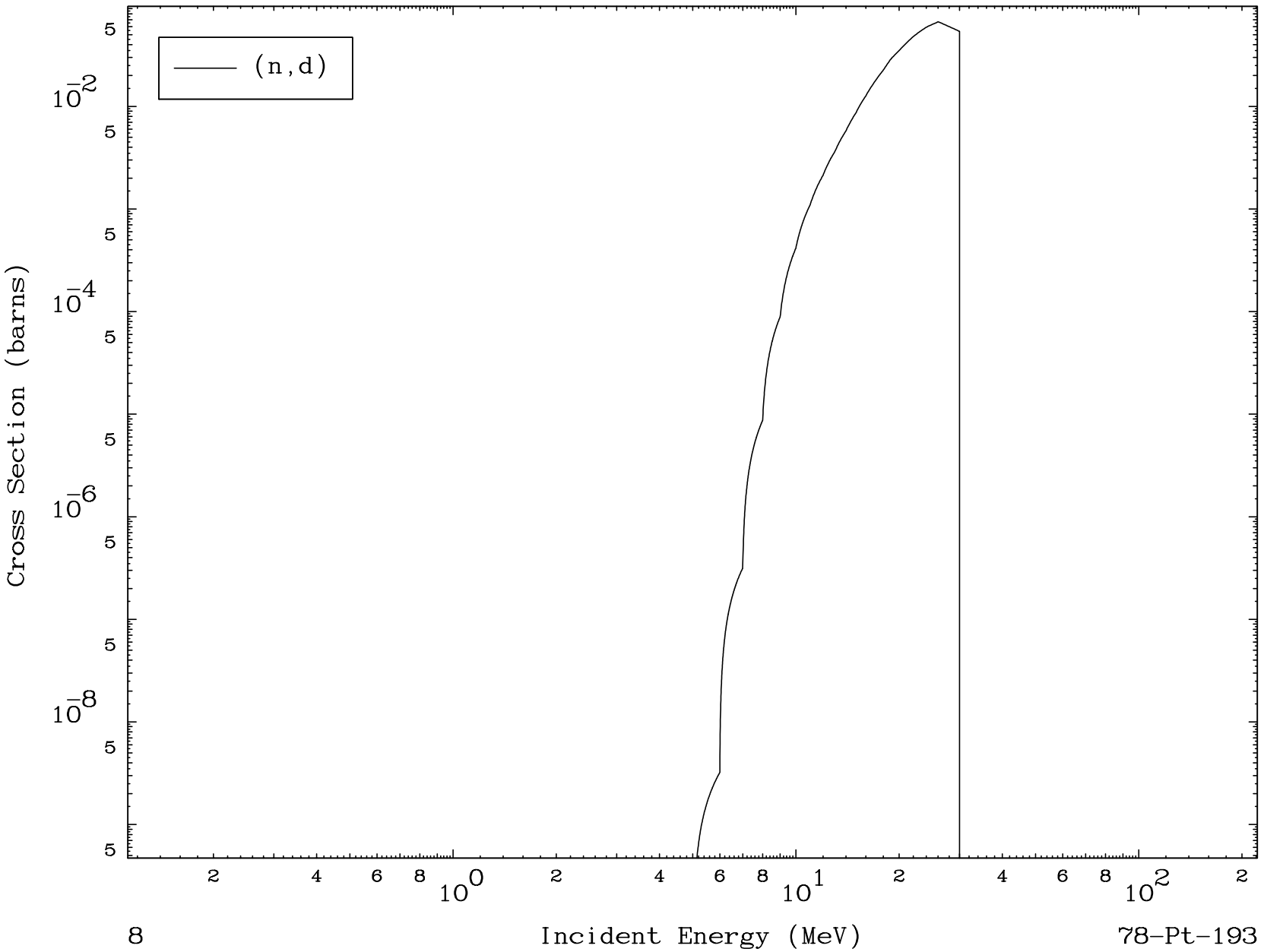

MAT 7834
Deuteron Neutron Absorption
0 Kelvin Cross Sections
78-Pt-193
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
78-Pt-193

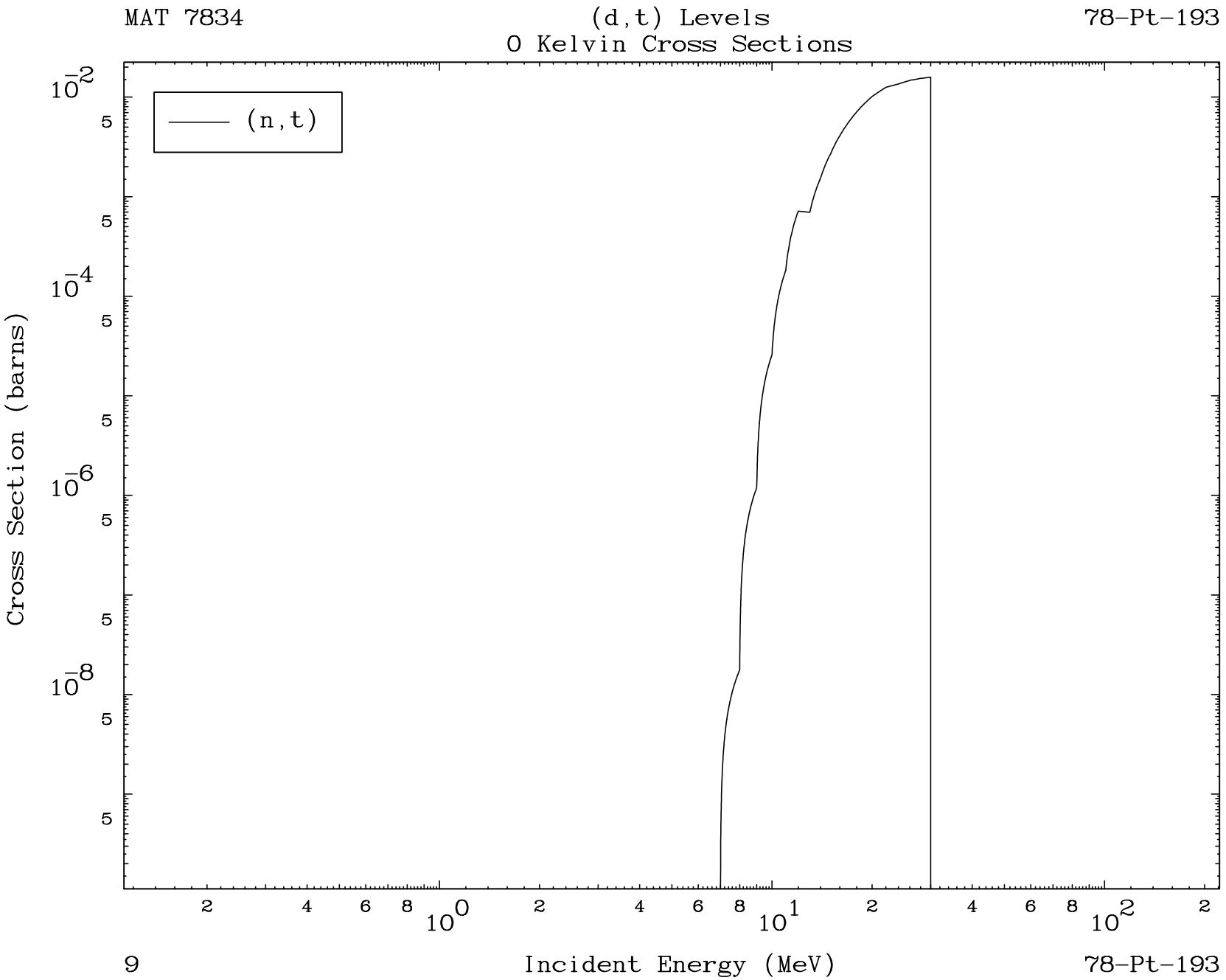

MAT 7834
Deuteron Neutron Absorption
0 Kelvin Cross Sections
78-Pt-193
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
10-4
10-6
10-8
10-10
10^0
10^1
10^2
Incident Energy (MeV)
4
78-Pt-193

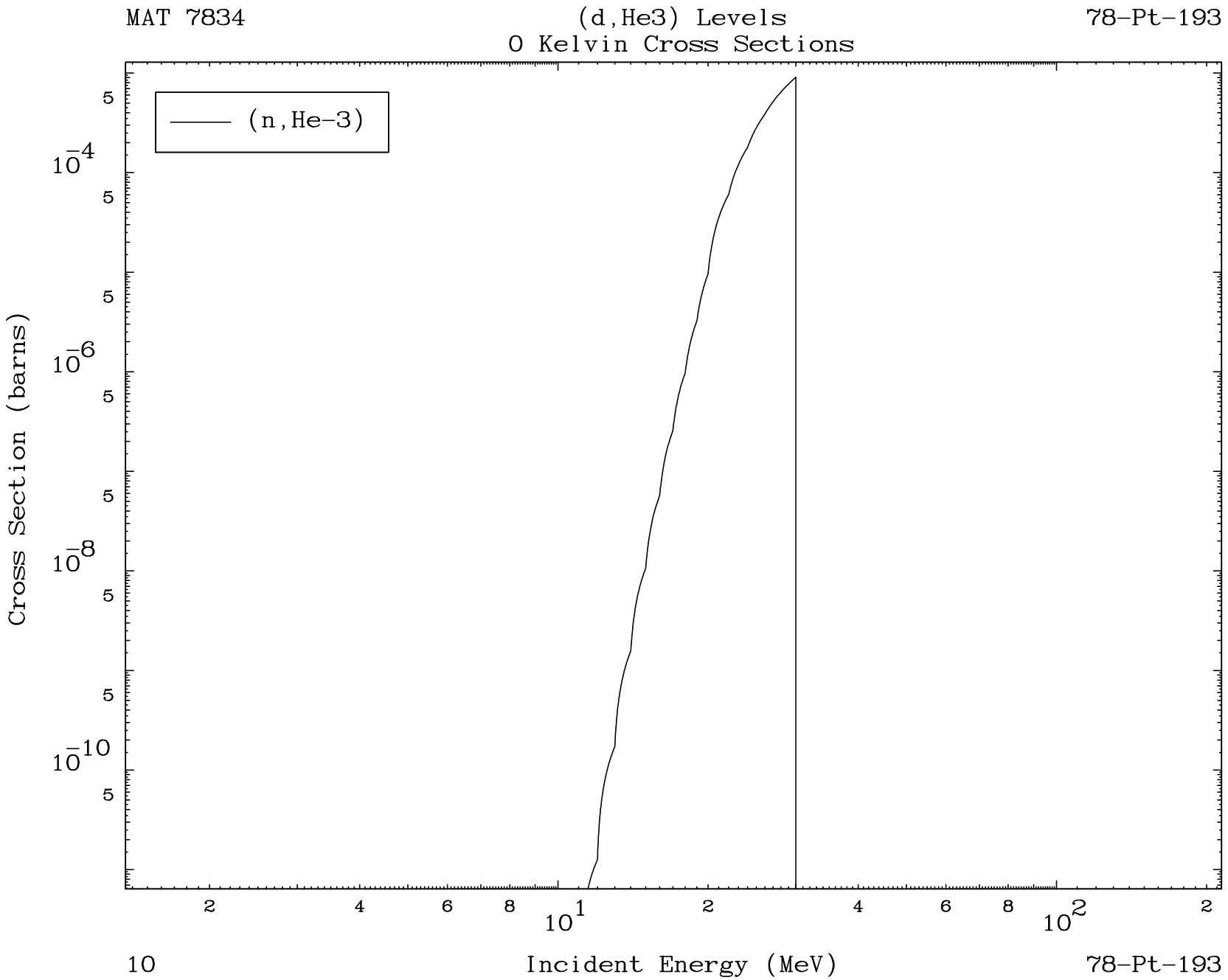

MAT 7834
Deuteron Charged Particle
0 Kelvin Cross Sections
78-Pt-193
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
78-Pt-193

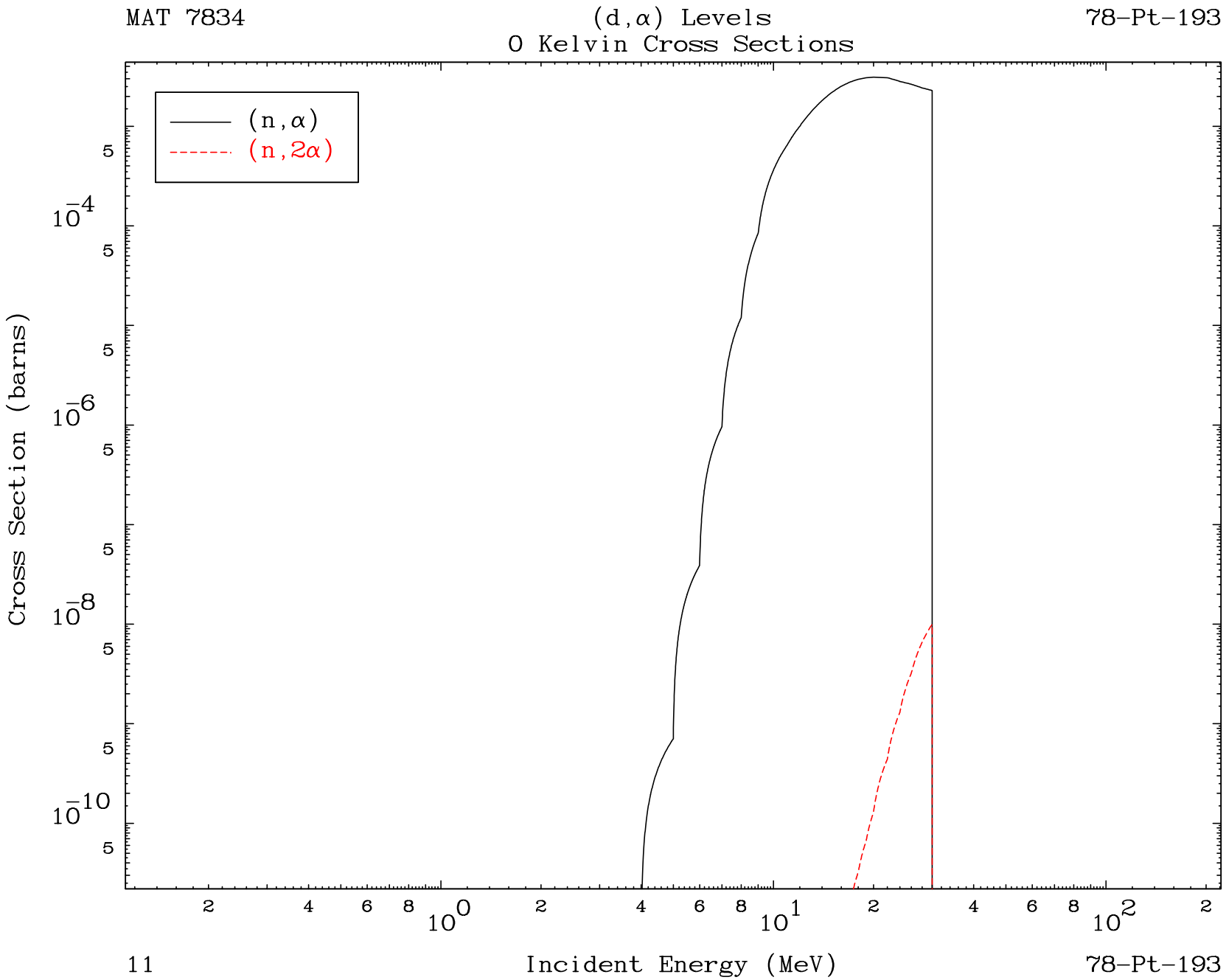

MAT 7834
Deuteron Charged Particle
0 Kelvin Cross Sections
78-Pt-193
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
78-Pt-193

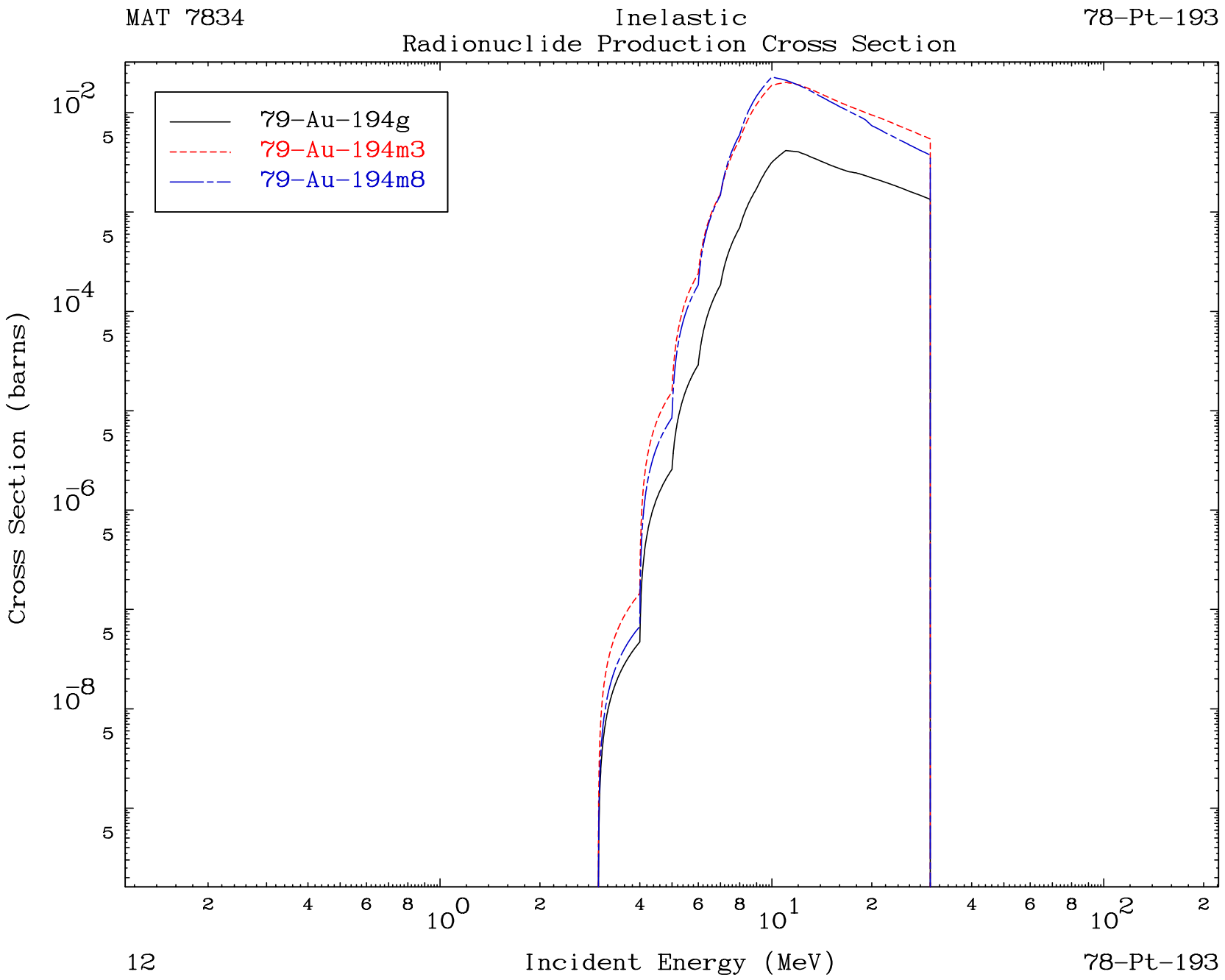

MAT 7834
(d,p) Levels
78-Pt-193
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
78-Pt-193

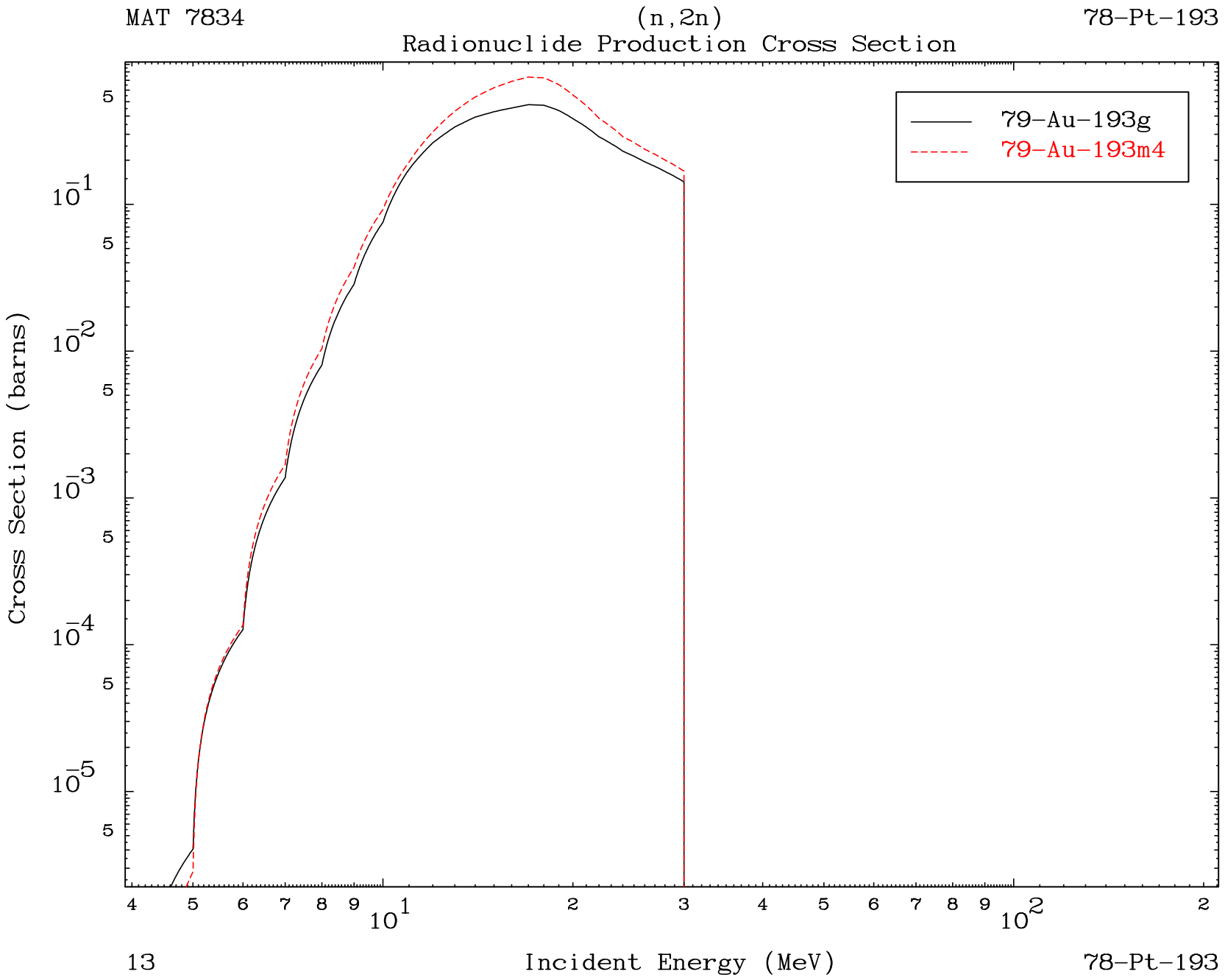

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)

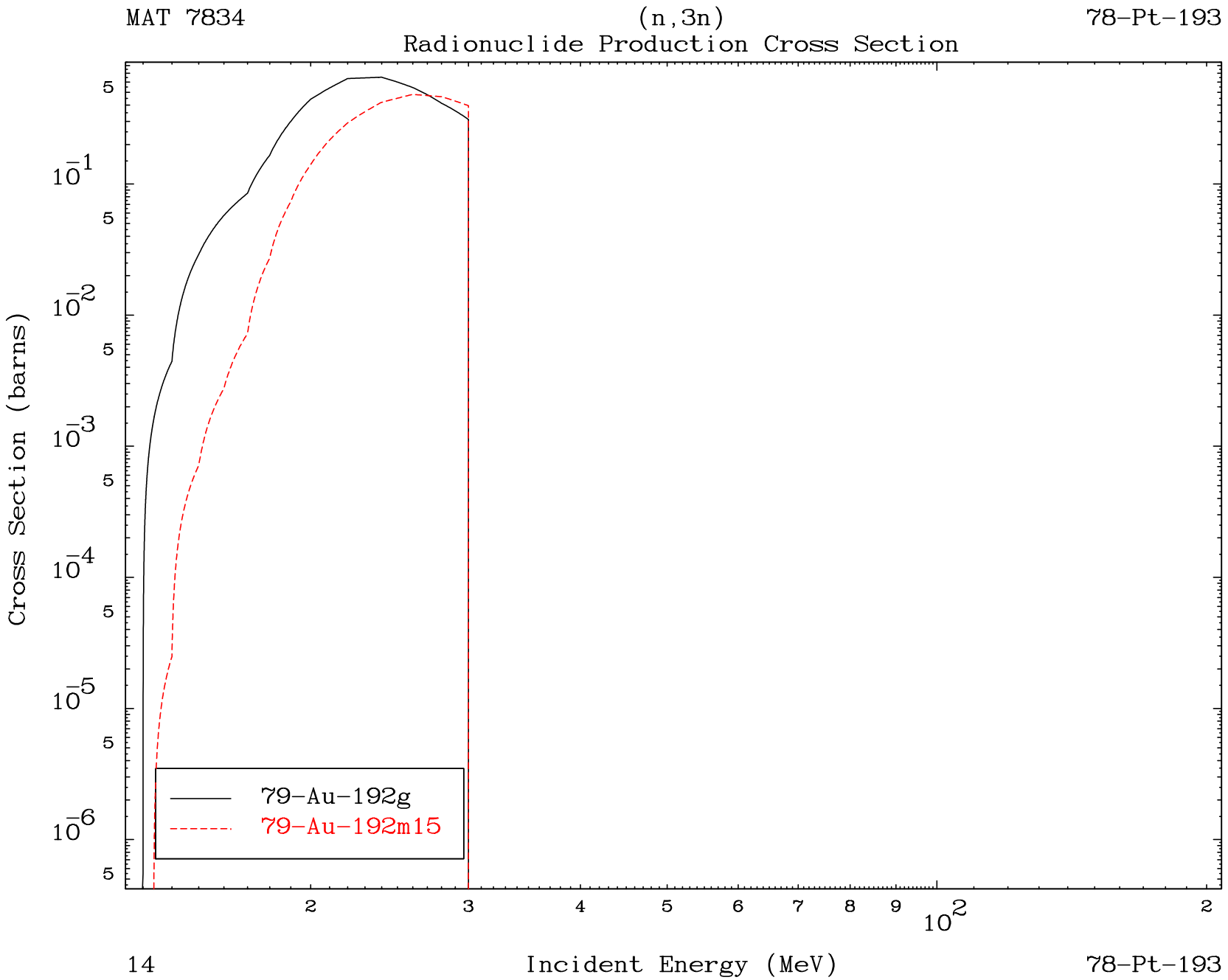

MAT 7834
(d,t) Levels
78-Pt-193
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
9
78-Pt-193

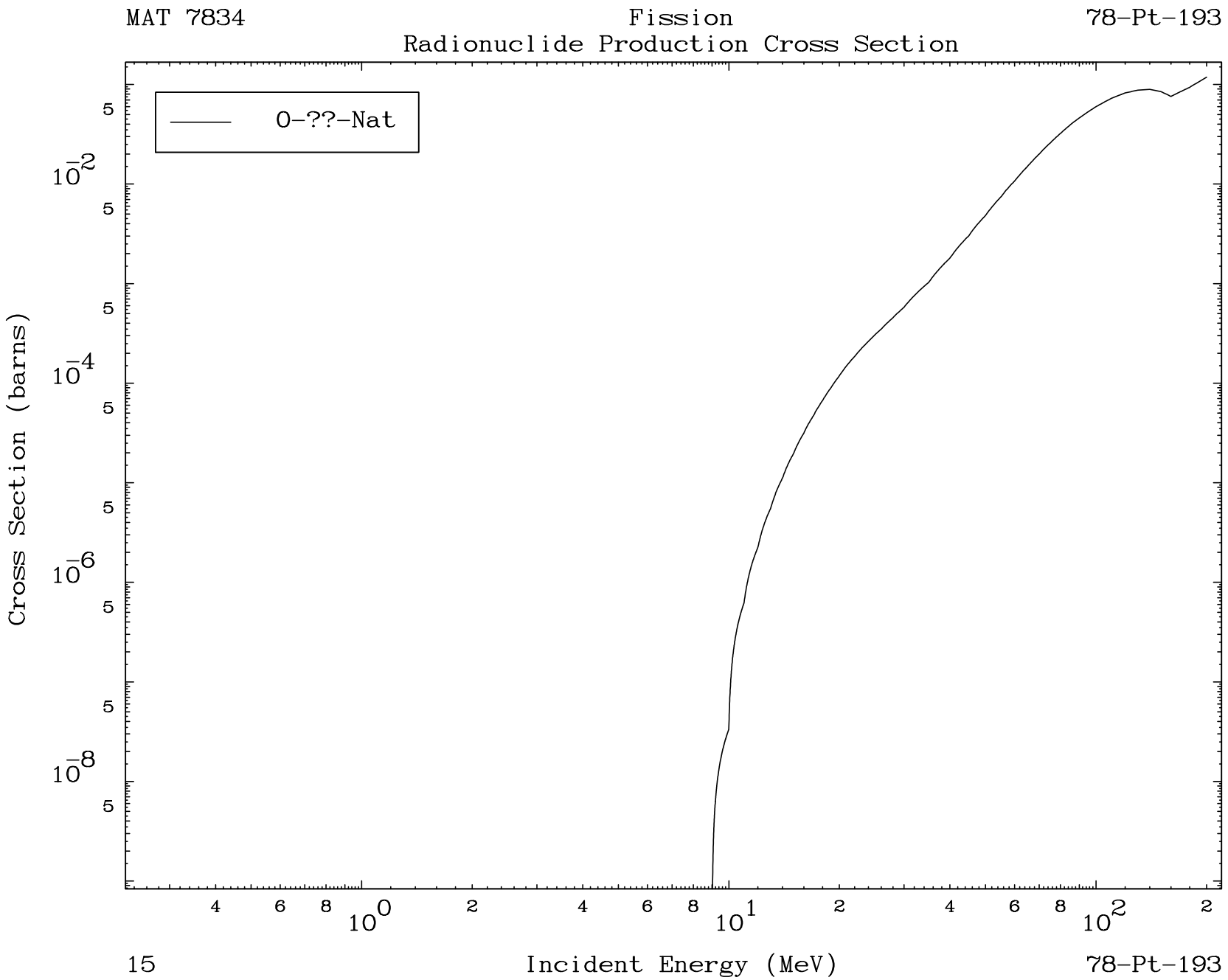

MAT 7834
(d,He3) Levels
78-Pt-193
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
10
Incident Energy (MeV)
78-Pt-193

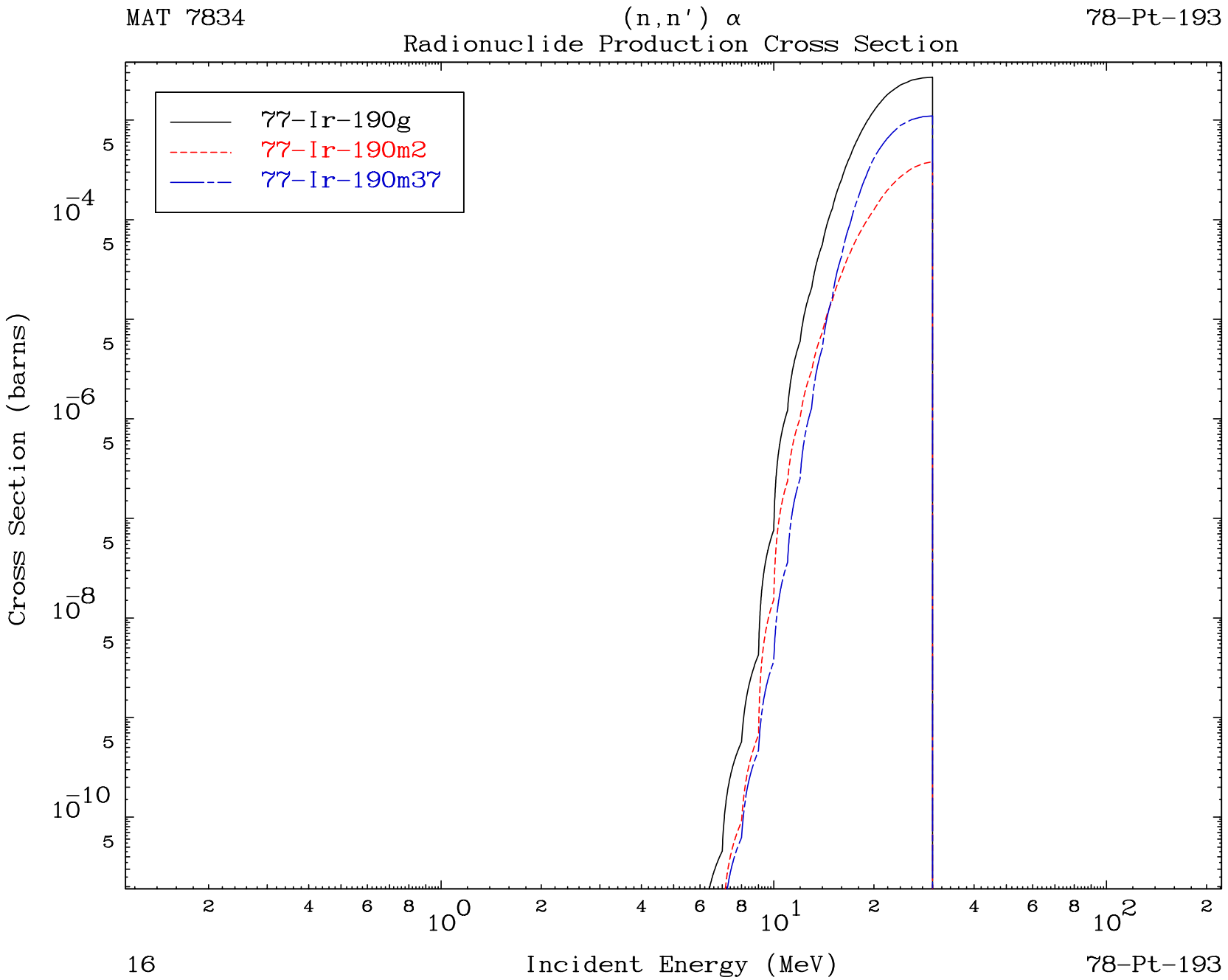

MAT 7834
(d,α) Levels
78-Pt-193
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
11
78-Pt-193

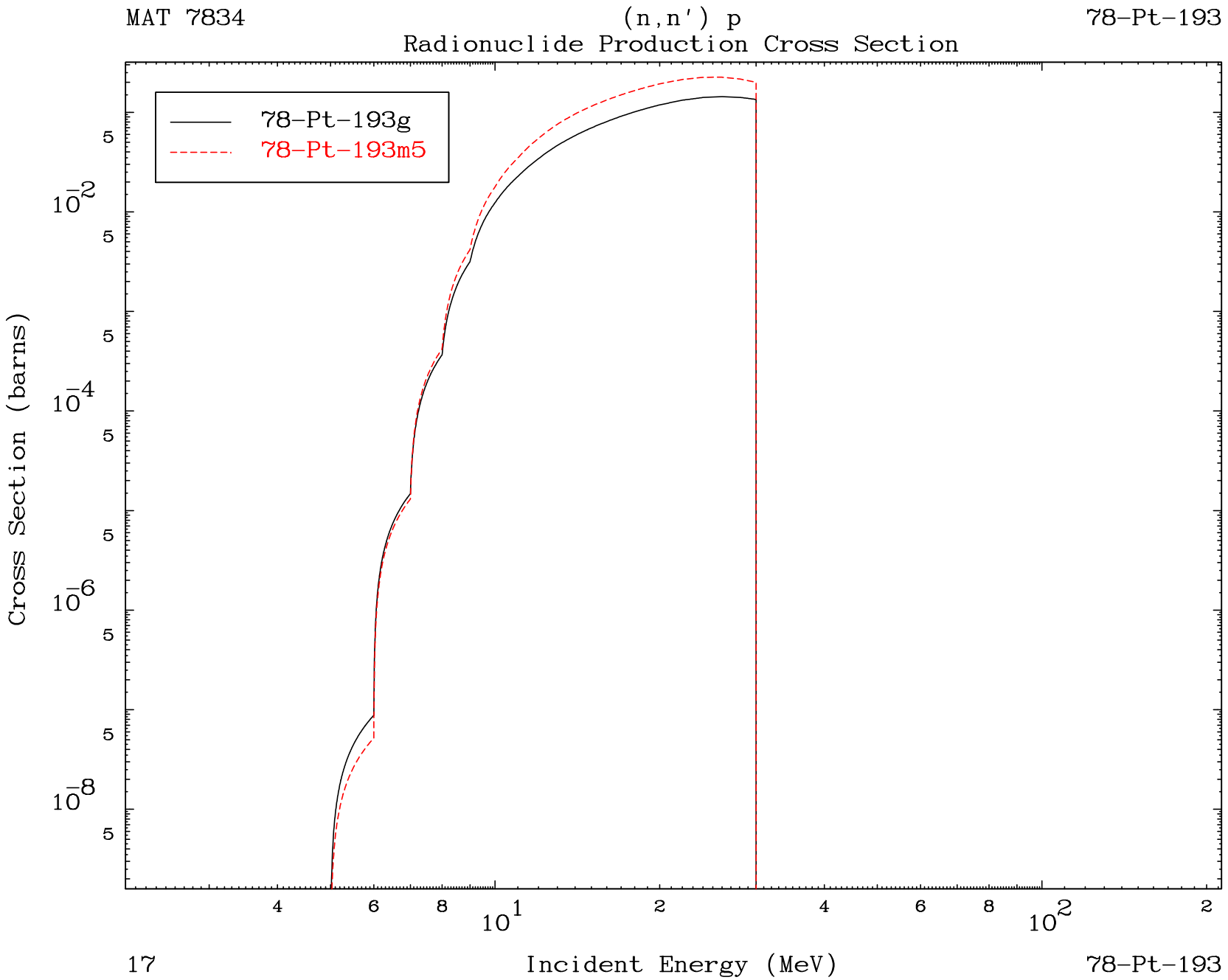

MAT 7834
Inelastic
78-Pt-193
Radionuclide Production Cross Section
79-Au-194g
79-Au-194m3
79-Au-194m8
Cross Section (barns)
Incident Energy (MeV)
12
78-Pt-193

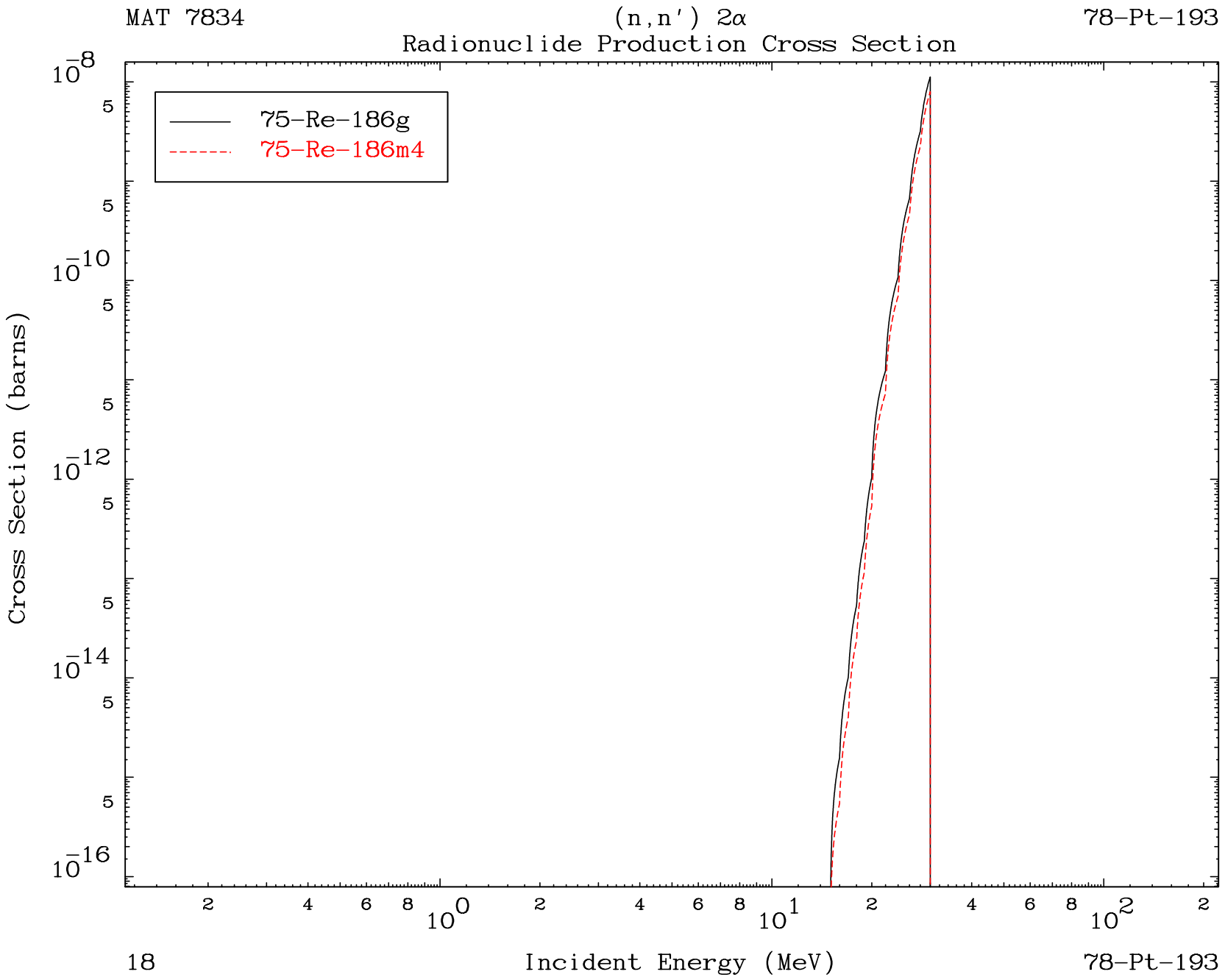

MAT 7834
(n,2n)
78-Pt-193
Radionuclide Production Cross Section
79-Au-193g
79-Au-193m4
Cross Section (barns)
Incident Energy (MeV)
13
78-Pt-193

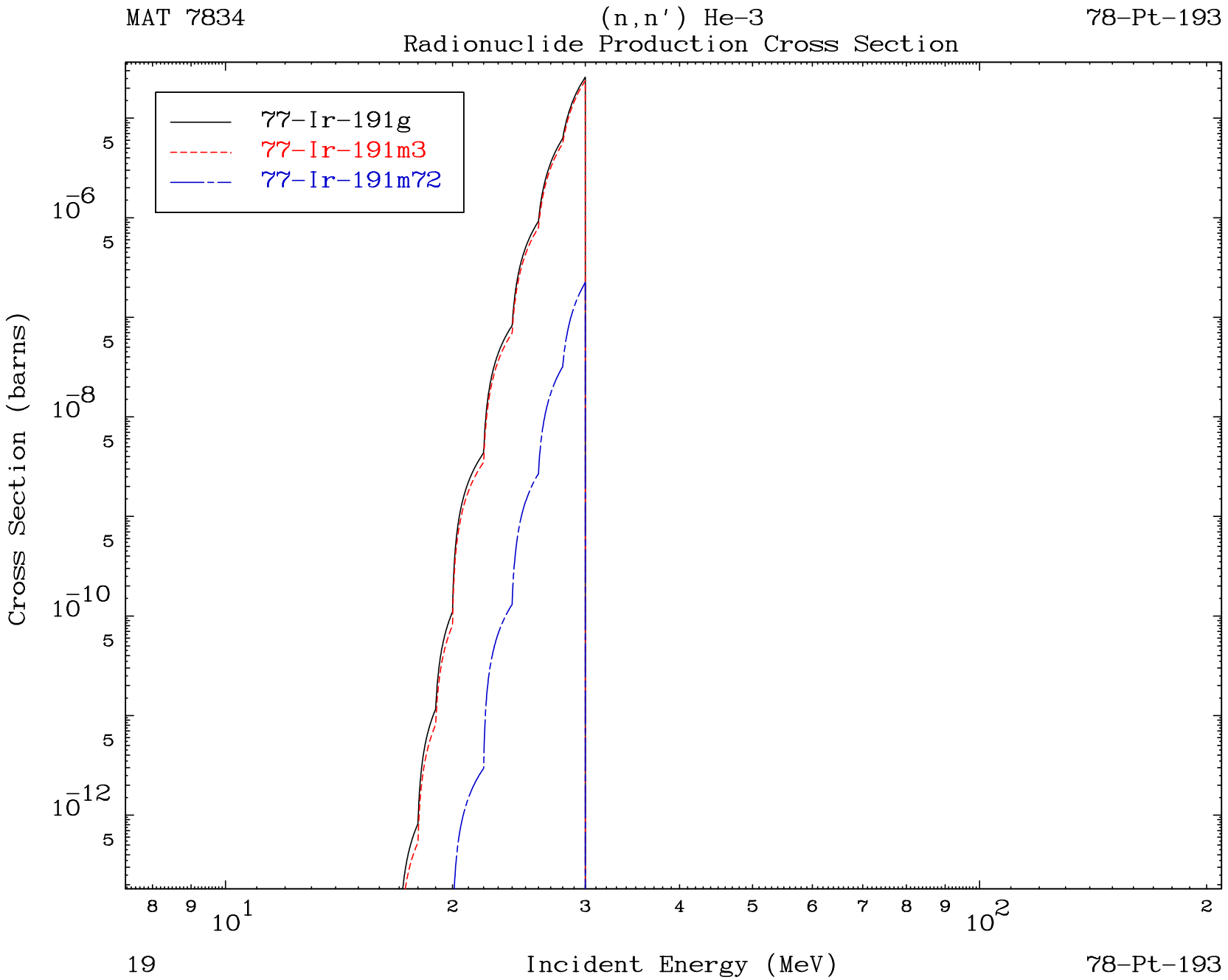

MAT 7834
(n,3n)
78-Pt-193
Radionuclide Production Cross Section
Cross Section (barns)
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
5
2
3
4
5
6
7
8
9
10^2
2
79-Au-192g
79-Au-192m15
14
Incident Energy (MeV)
78-Pt-193

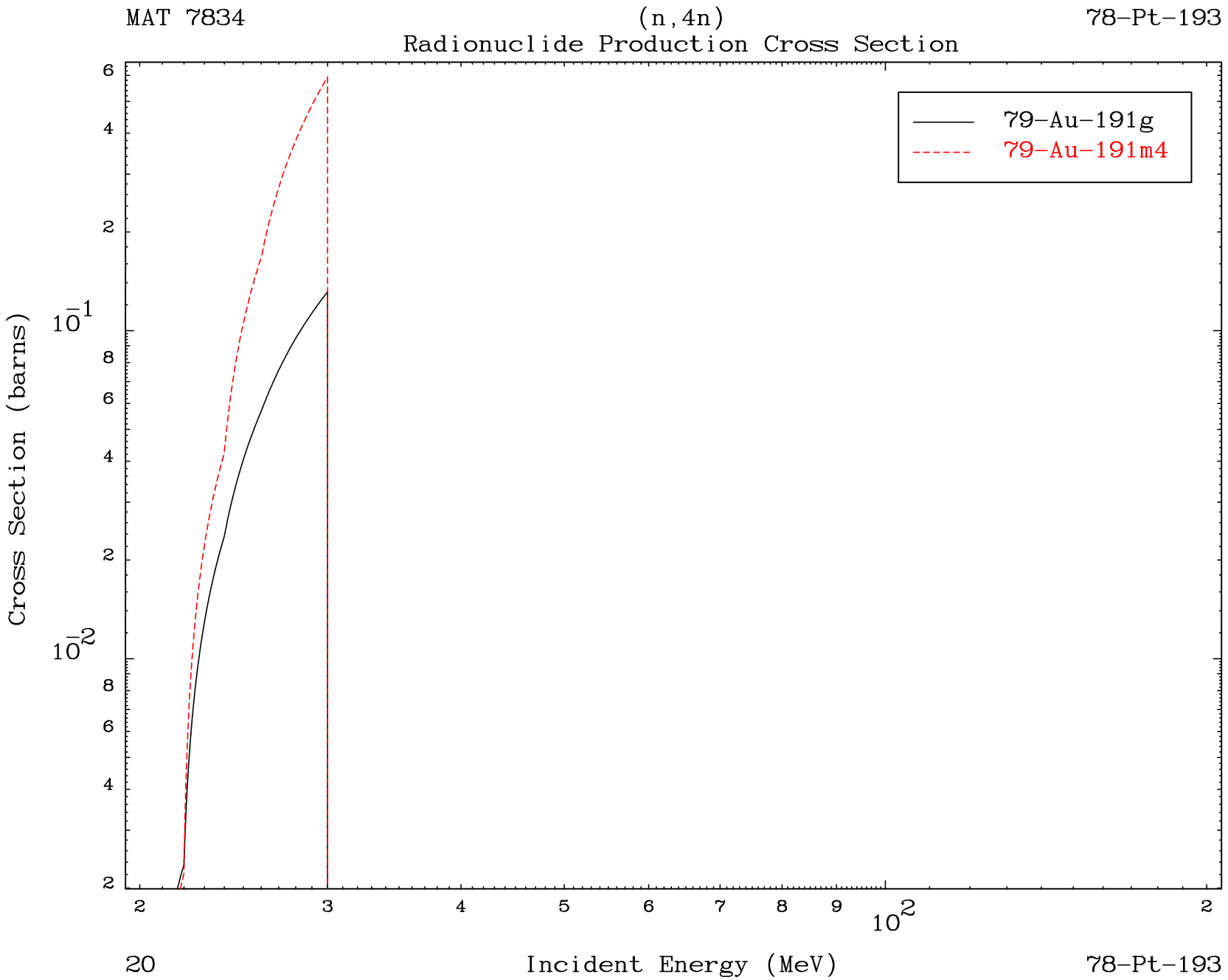

MAT 7834
Fission
78-Pt-193
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
15
78-Pt-193

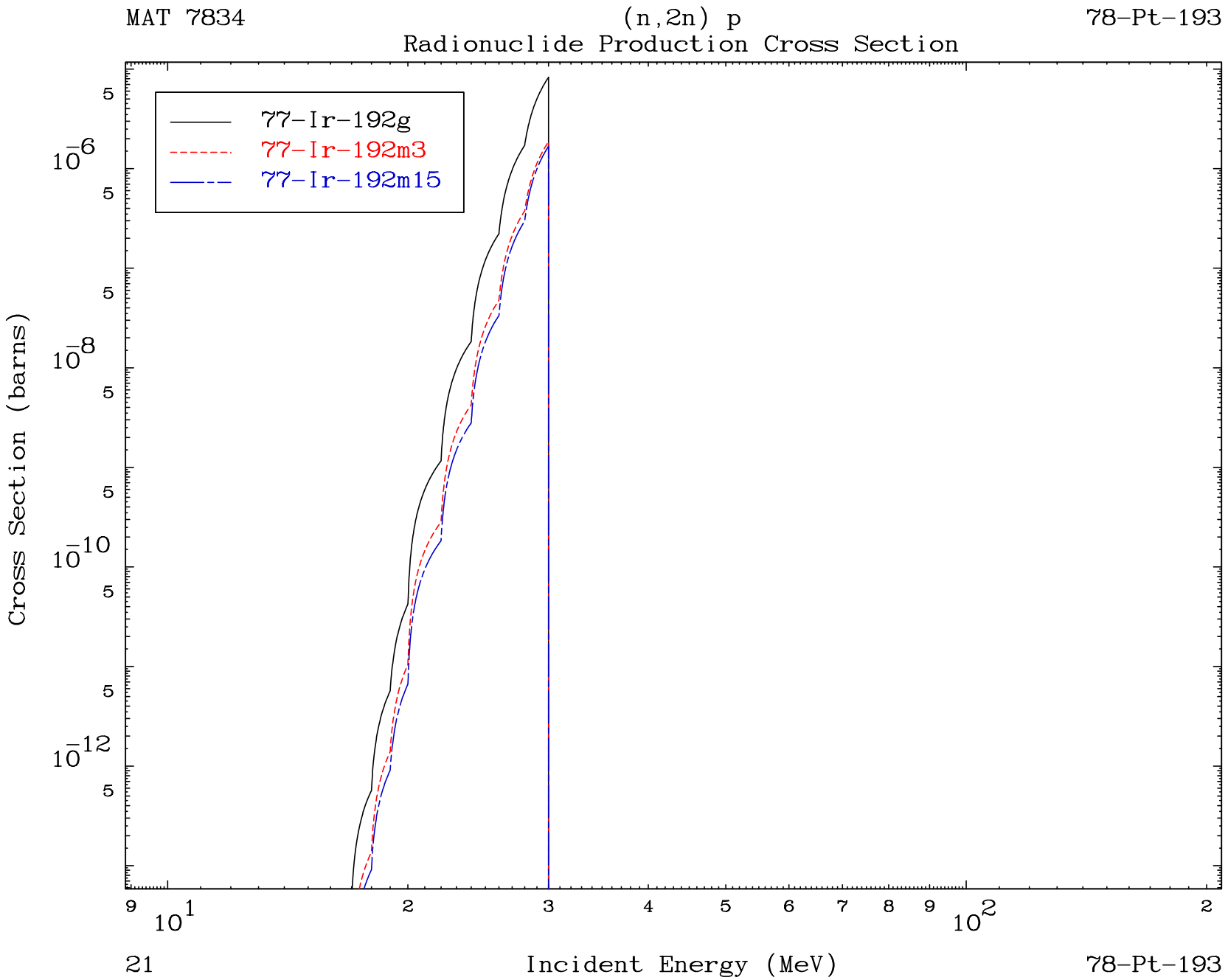

MAT 7834
(n,n') α
78-Pt-193
Radionuclide Production Cross Section
77-Ir-190g
77-Ir-190m2
77-Ir-190m37
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
16
78-Pt-193

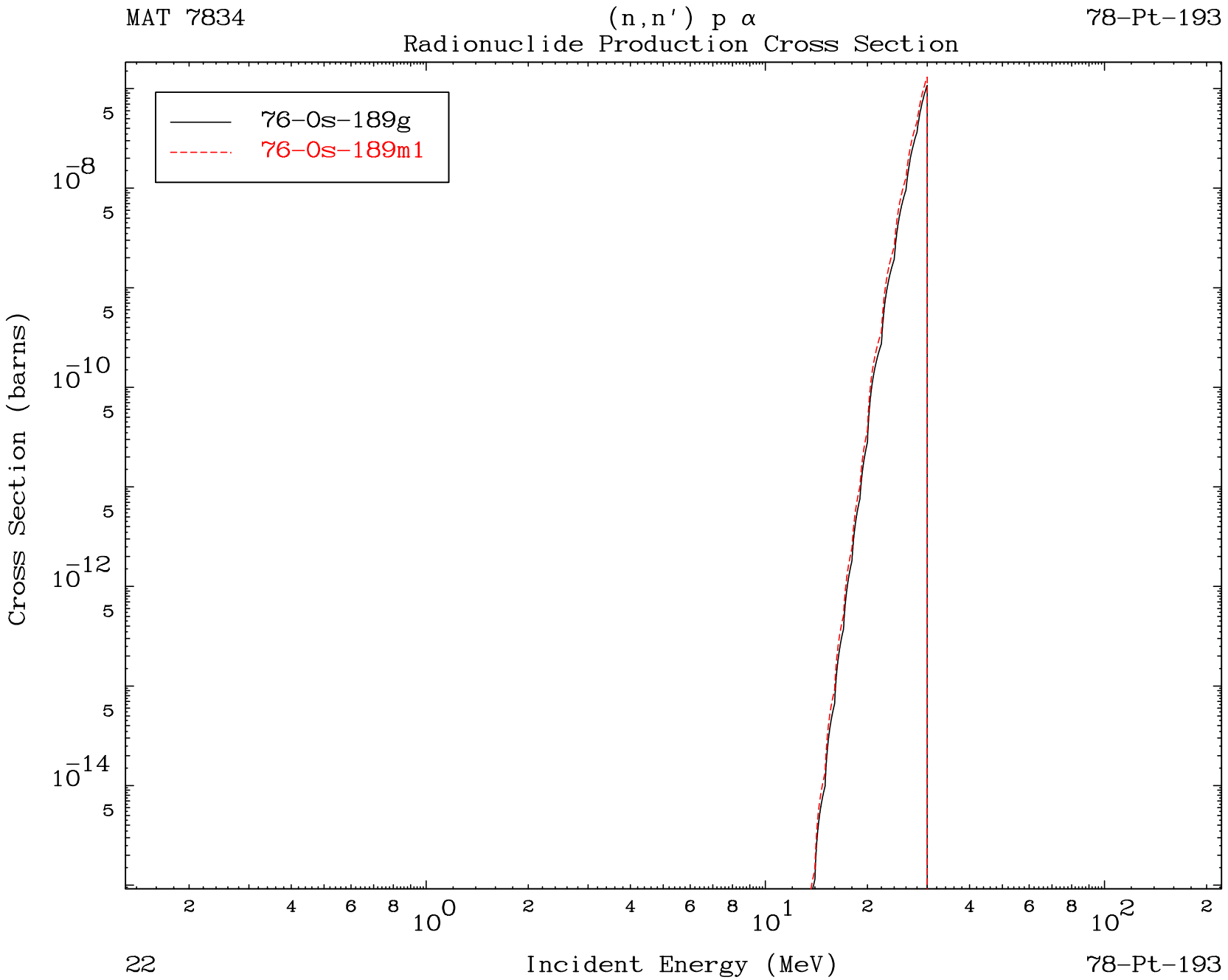

MAT 7834
(n,n') p
78-Pt-193
Radionuclide Production Cross Section
78-Pt-193g
78-Pt-193m5
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4
6
8
10 1
2
4
6
8
10 2
2
17
Incident Energy (MeV)
78-Pt-193

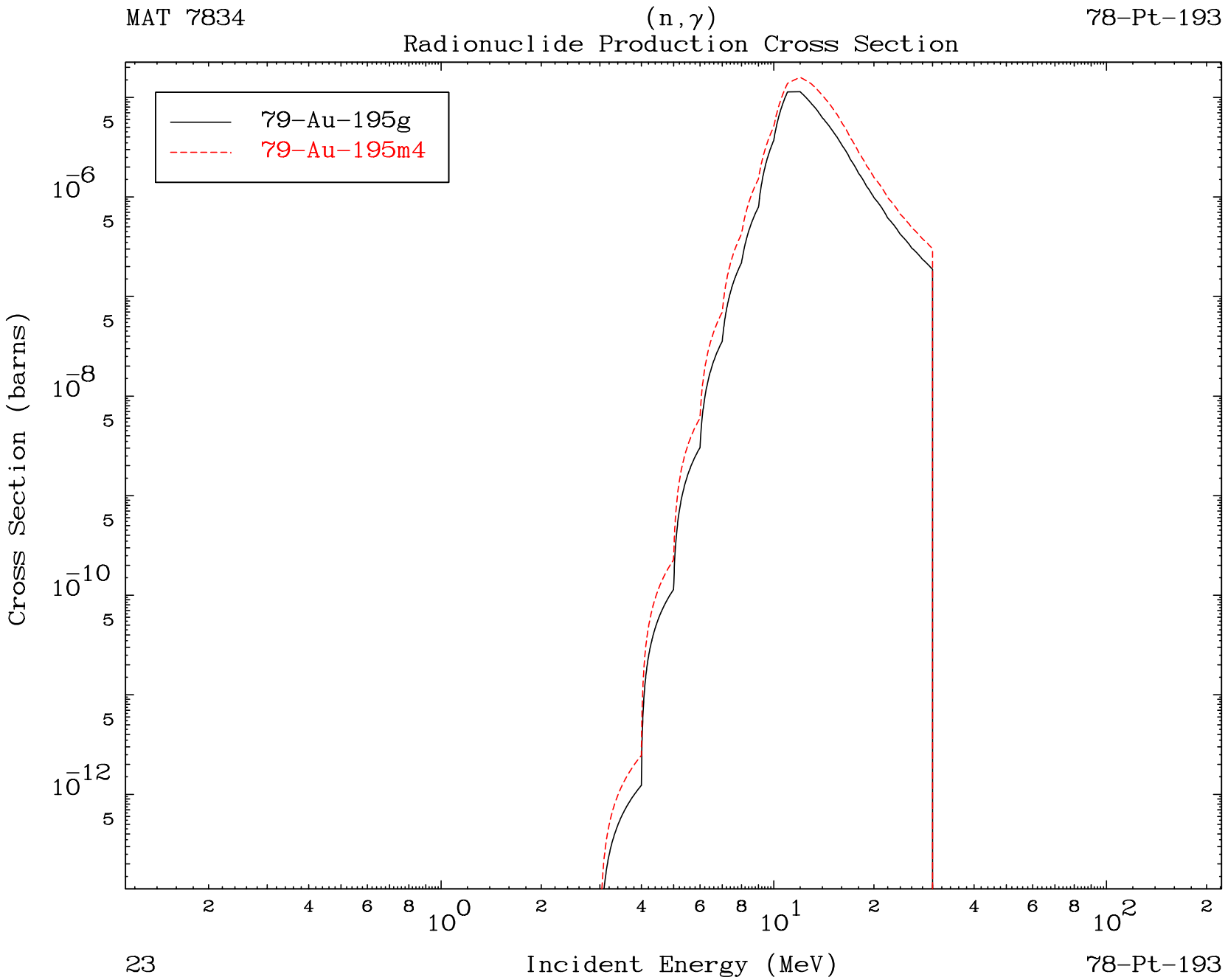

MAT 7834
(n,n') 2α
78-Pt-193
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
Incident Energy (MeV)
18
78-Pt-193

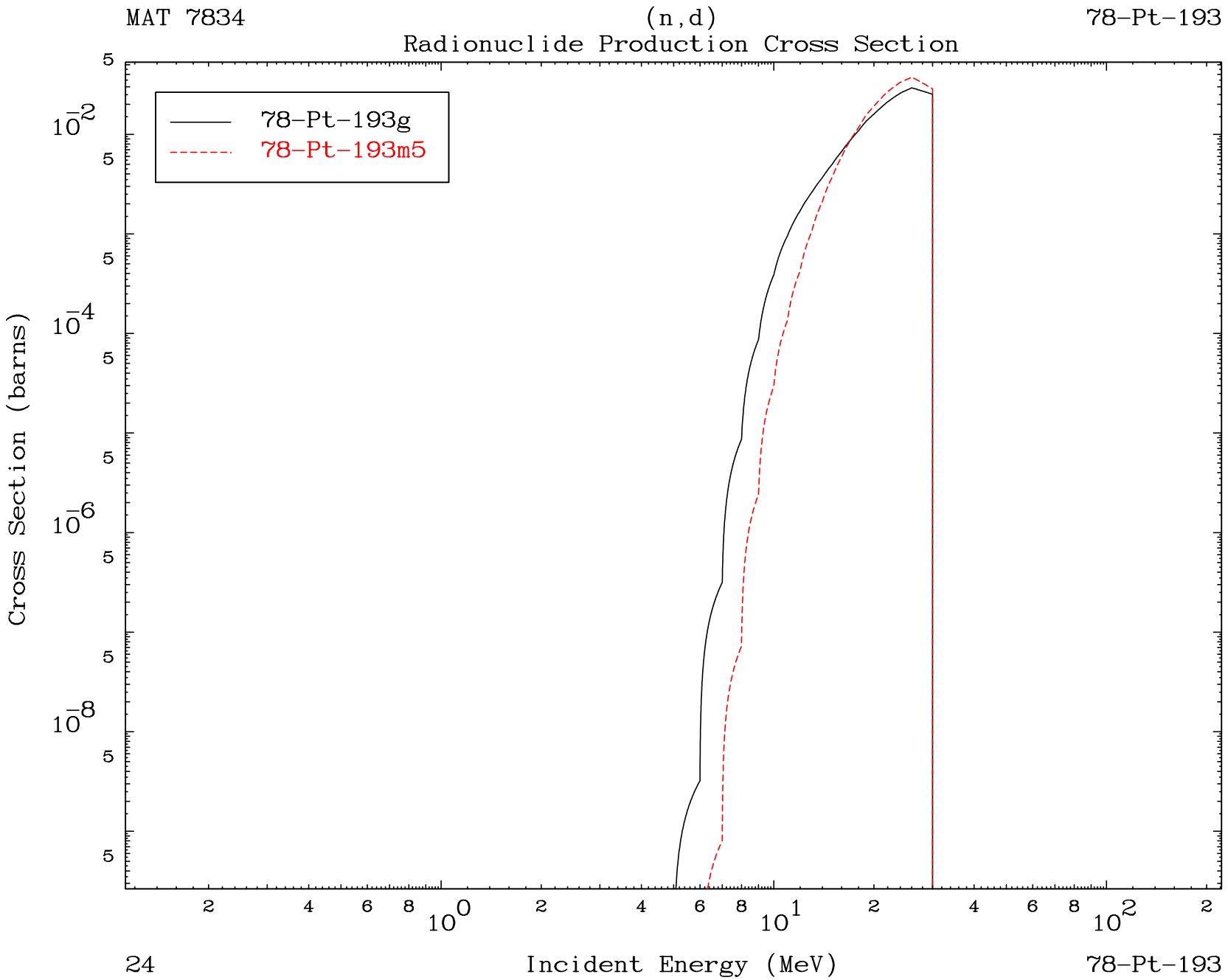

MAT 7834
(n,n') He-3
78-Pt-193
Radionuclide Production Cross Section
77-Ir-191g
77-Ir-191m3
77-Ir-191m72
Cross Section (barns)
Incident Energy (MeV)
19
78-Pt-193

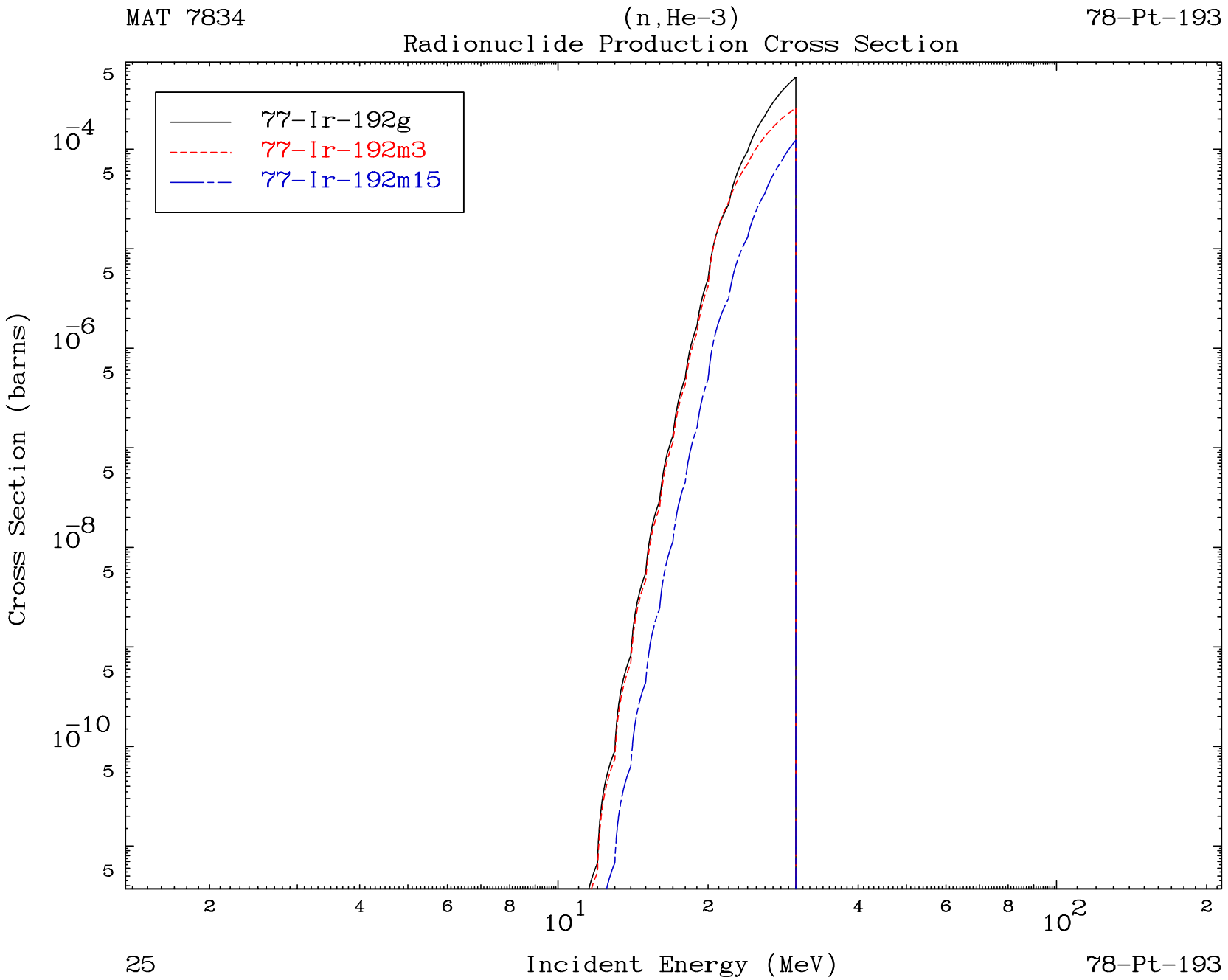

MAT 7834
(n,4n)
78-Pt-193
Radionuclide Production Cross Section
79-Au-191g
79-Au-191m4
Cross Section (barns)
Incident Energy (MeV)
20
78-Pt-193

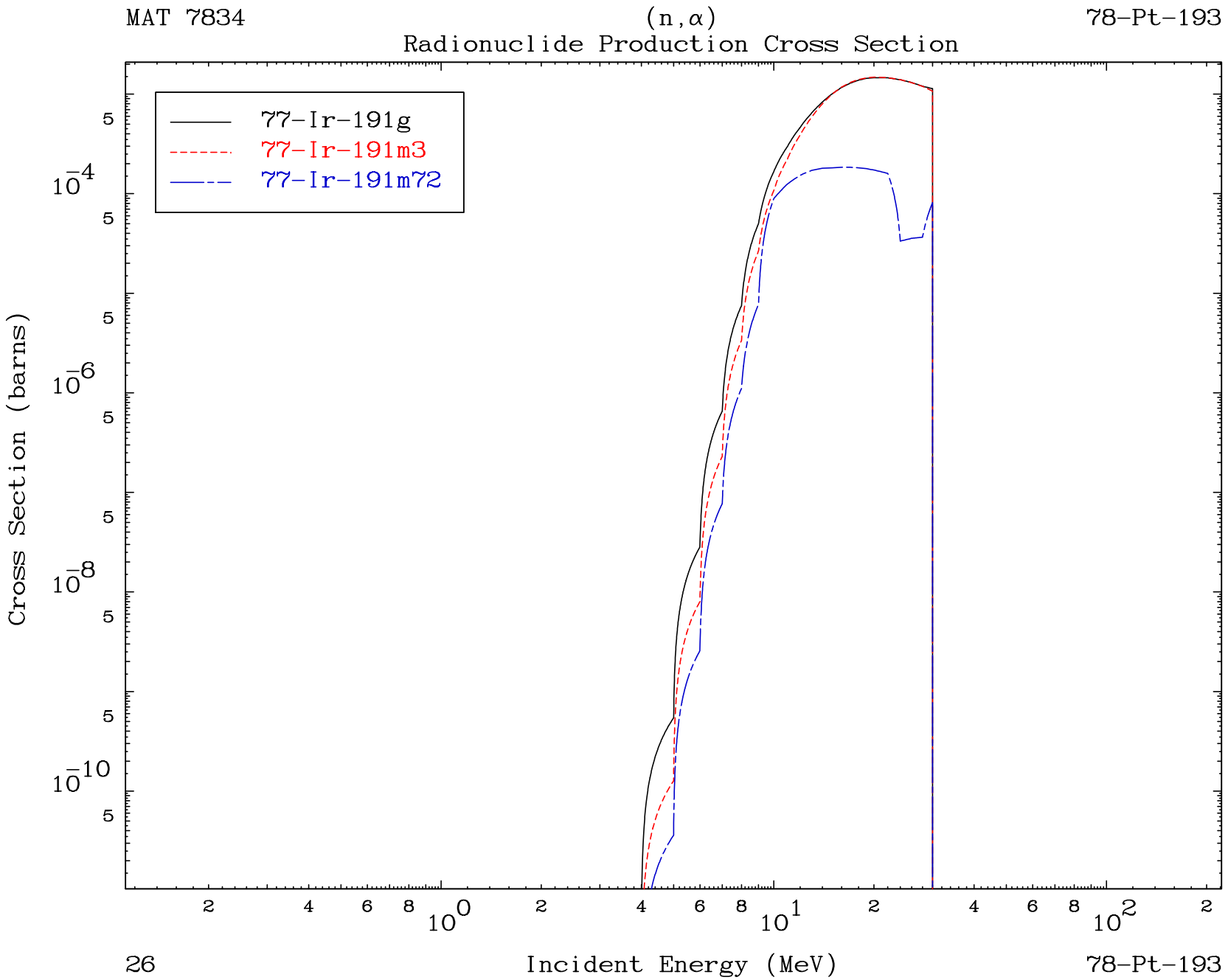

MAT 7834
(n,2n) p
78-Pt-193
Radionuclide Production Cross Section
77-Ir-192g
77-Ir-192m3
77-Ir-192m15
Cross Section (barns)
Incident Energy (MeV)
21
78-Pt-193

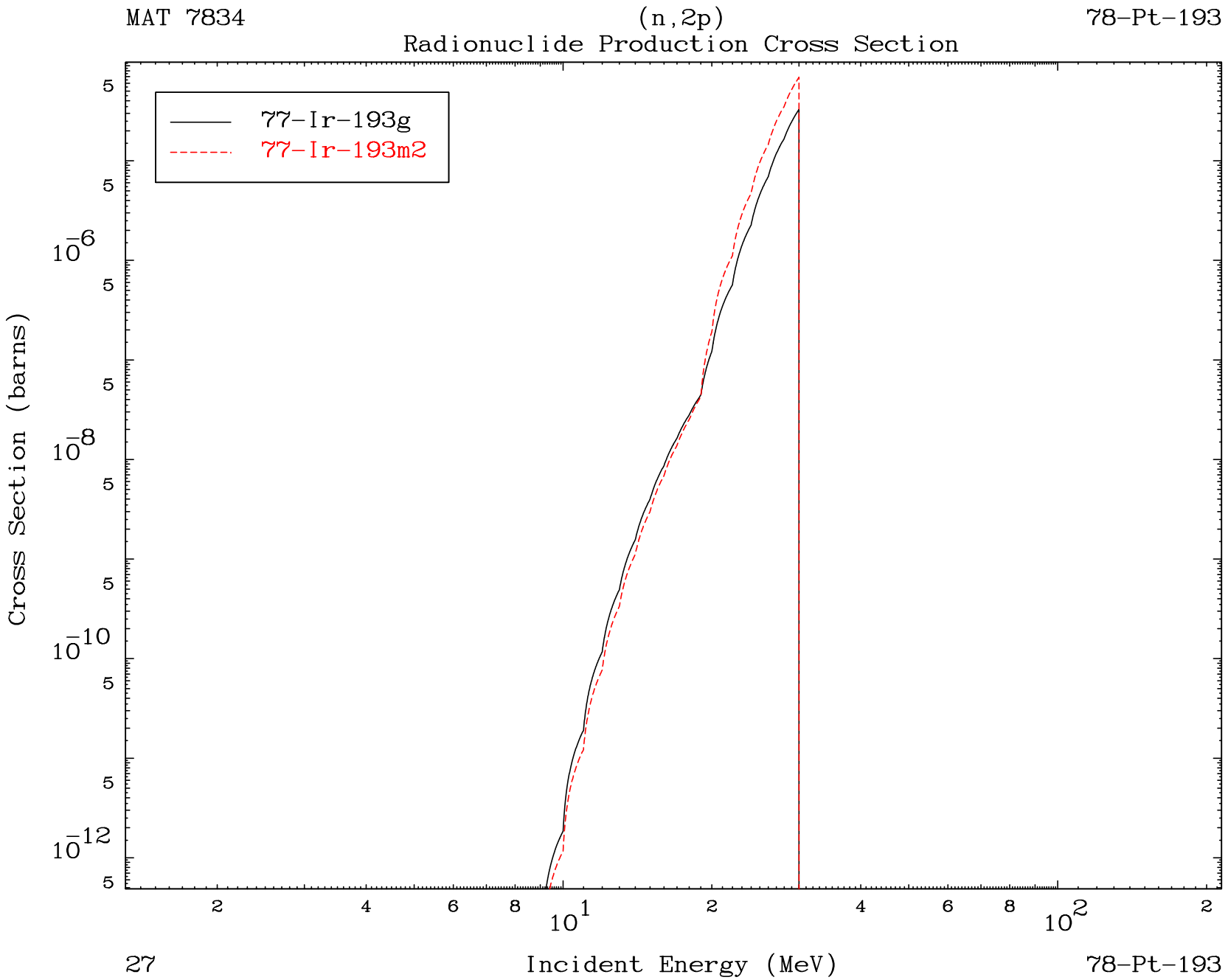

MAT 7834
(n,n') p α
78-Pt-193
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
Incident Energy (MeV)
22
78-Pt-193

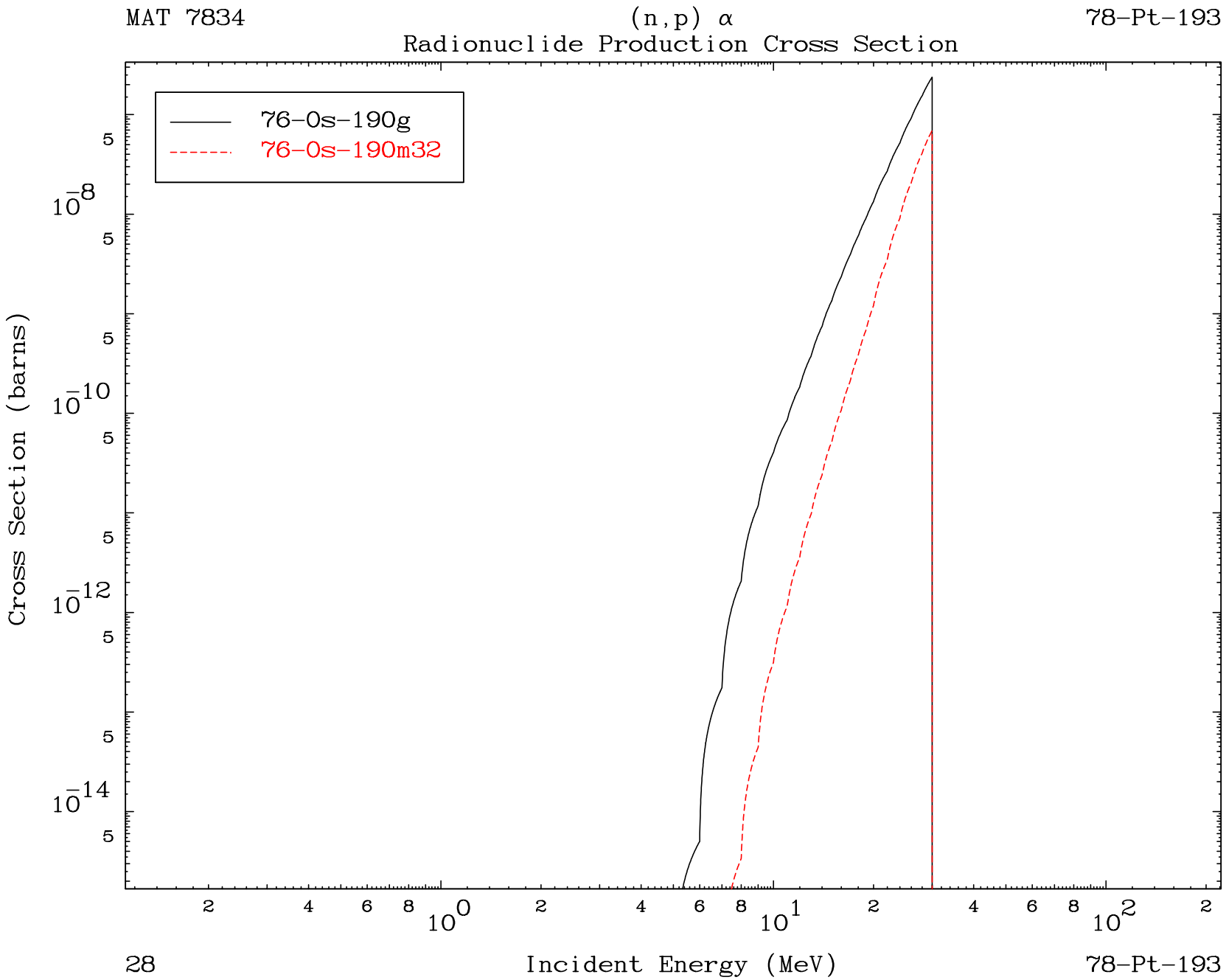

MAT 7834
(n,γ)
78-Pt-193
Radionuclide Production Cross Section
79-Au-195g
79-Au-195m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
23
78-Pt-193

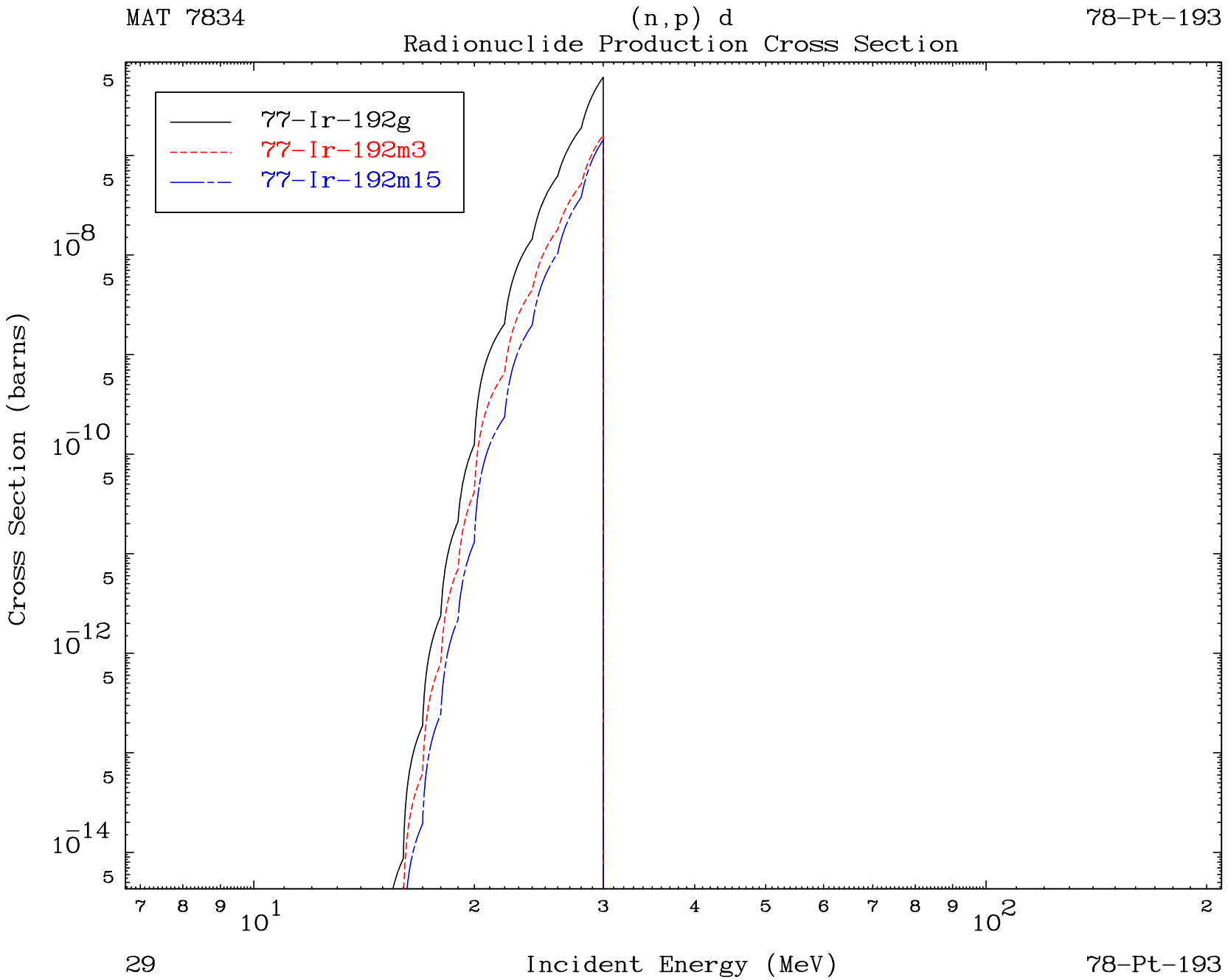

MAT 7834
(n,d)
78-Pt-193
Radionuclide Production Cross Section
78-Pt-193g
78-Pt-193m5
Cross Section (barns)
Incident Energy (MeV)
24
78-Pt-193

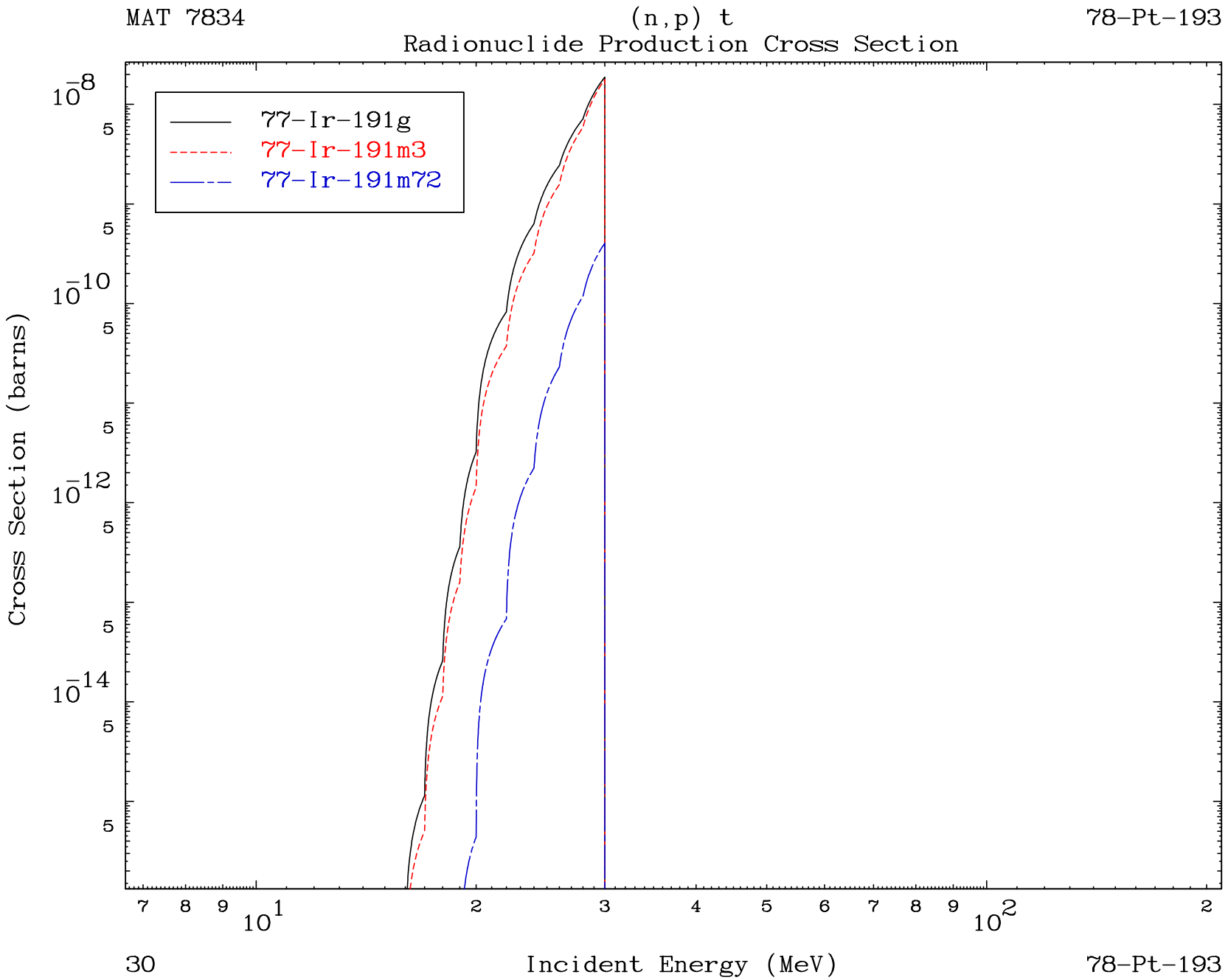

MAT 7834
(n,He-3)
78-Pt-193
Radionuclide Production Cross Section
77-Ir-192g
77-Ir-192m3
77-Ir-192m15
Cross Section (barns)
Incident Energy (MeV)
25
78-Pt-193

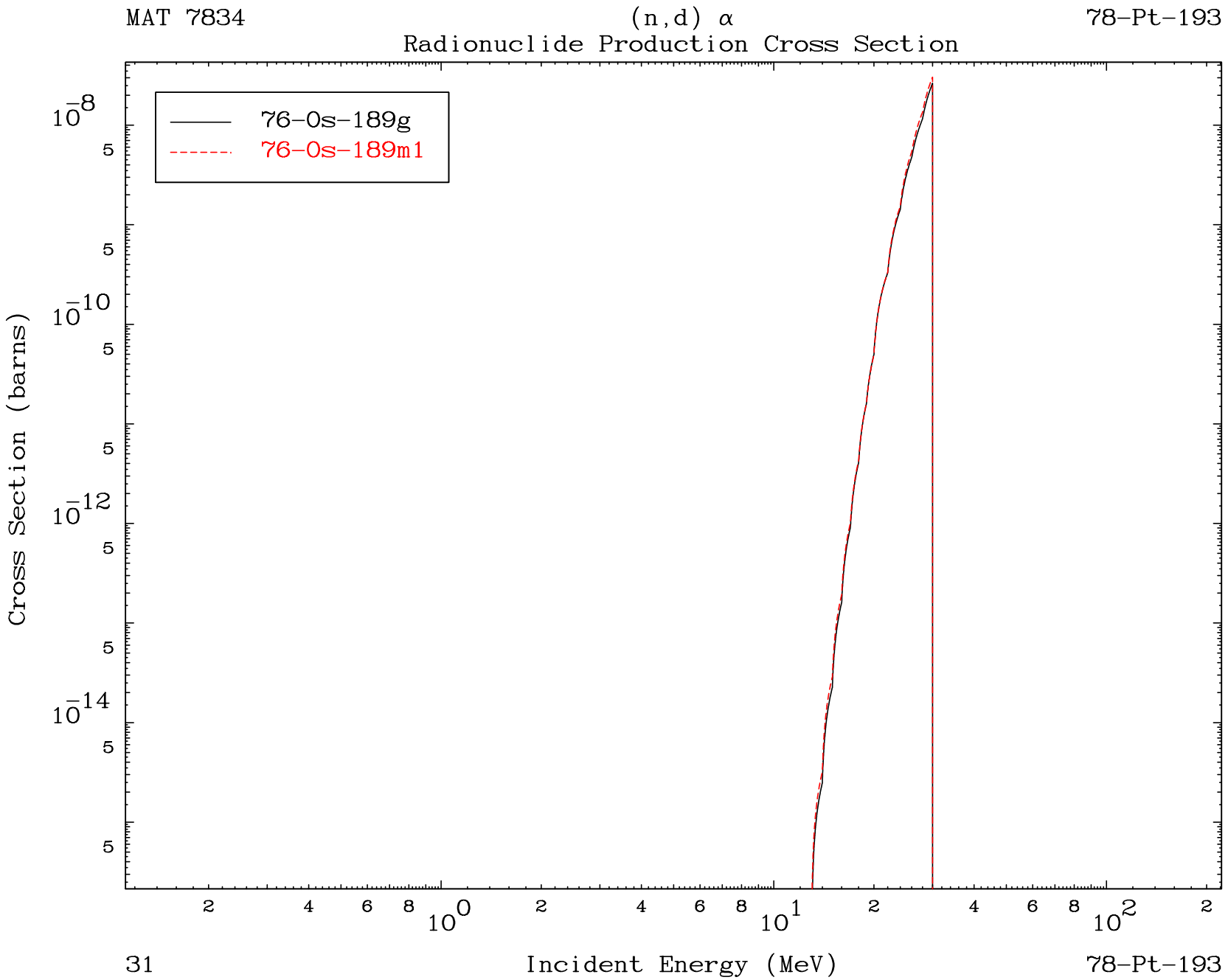

MAT 7834
(n,α)
78-Pt-193
Radionuclide Production Cross Section
77-Ir-191g
77-Ir-191m3
77-Ir-191m72
Cross Section (barns)
Incident Energy (MeV)
26
78-Pt-193


MAT 7834
(n,2p)
78-Pt-193
Radionuclide Production Cross Section
77-Ir-193g
77-Ir-193m2
Cross Section (barns)
Incident Energy (MeV)
27
78-Pt-193


MAT 7834
(n,p) α
78-Pt-193
Radionuclide Production Cross Section
76-Os-190g
76-Os-190m32
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
10^0
10^1
10^2
Incident Energy (MeV)
28
78-Pt-193


MAT 7834
(n,p) d
78-Pt-193
Radionuclide Production Cross Section
77-Ir-192g
77-Ir-192m3
77-Ir-192m15
Cross Section (barns)
Incident Energy (MeV)
29
78-Pt-193


MAT 7834
(n,p) t
78-Pt-193
Radionuclide Production Cross Section
77-Ir-191g
77-Ir-191m3
77-Ir-191m72
Cross Section (barns)
Incident Energy (MeV)
30
78-Pt-193


MAT 7834
(n,d) α
78-Pt-193
Radionuclide Production Cross Section
76-0s-189g
76-0s-189m1
Cross Section (barns)
Incident Energy (MeV)
31
78-Pt-193