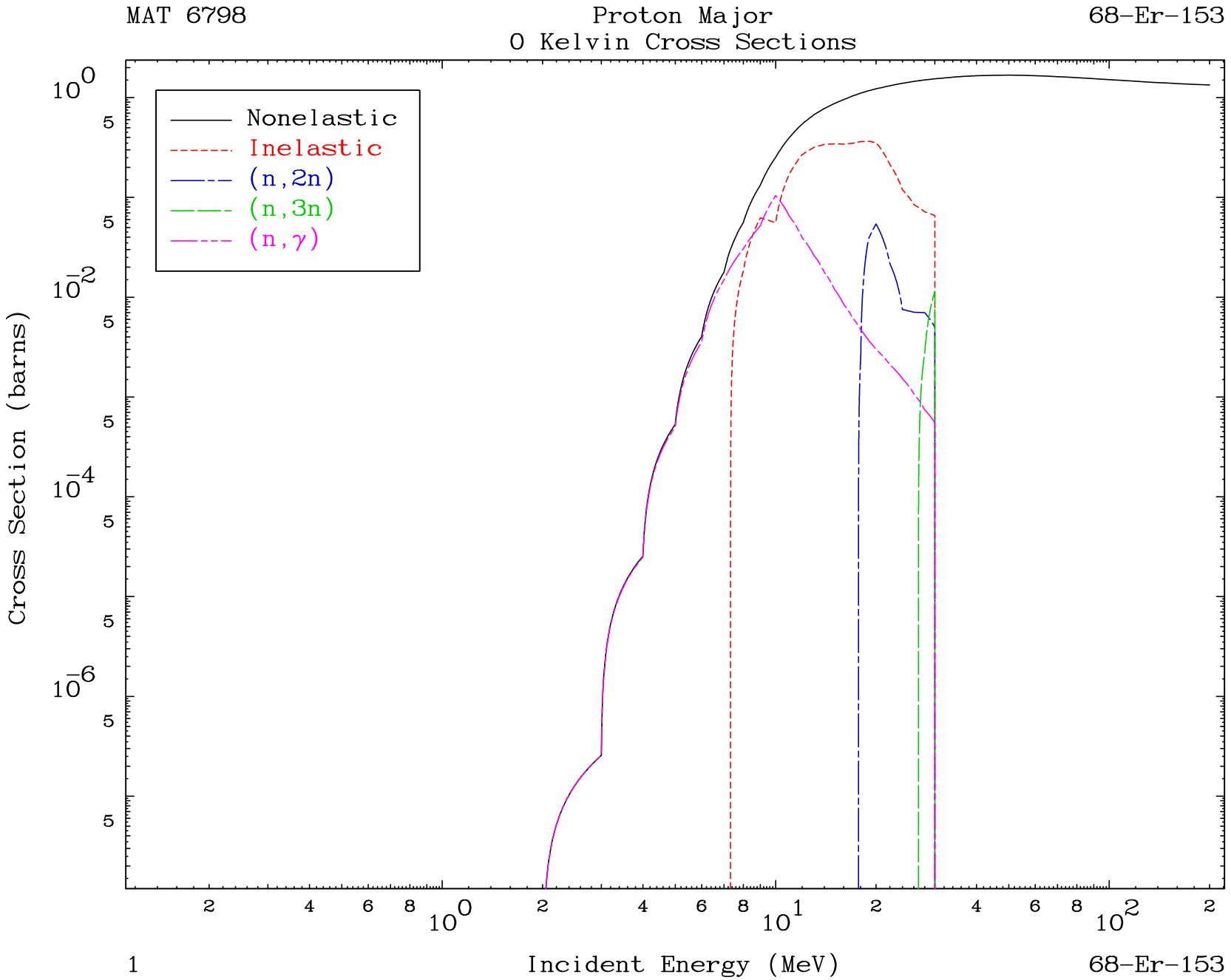
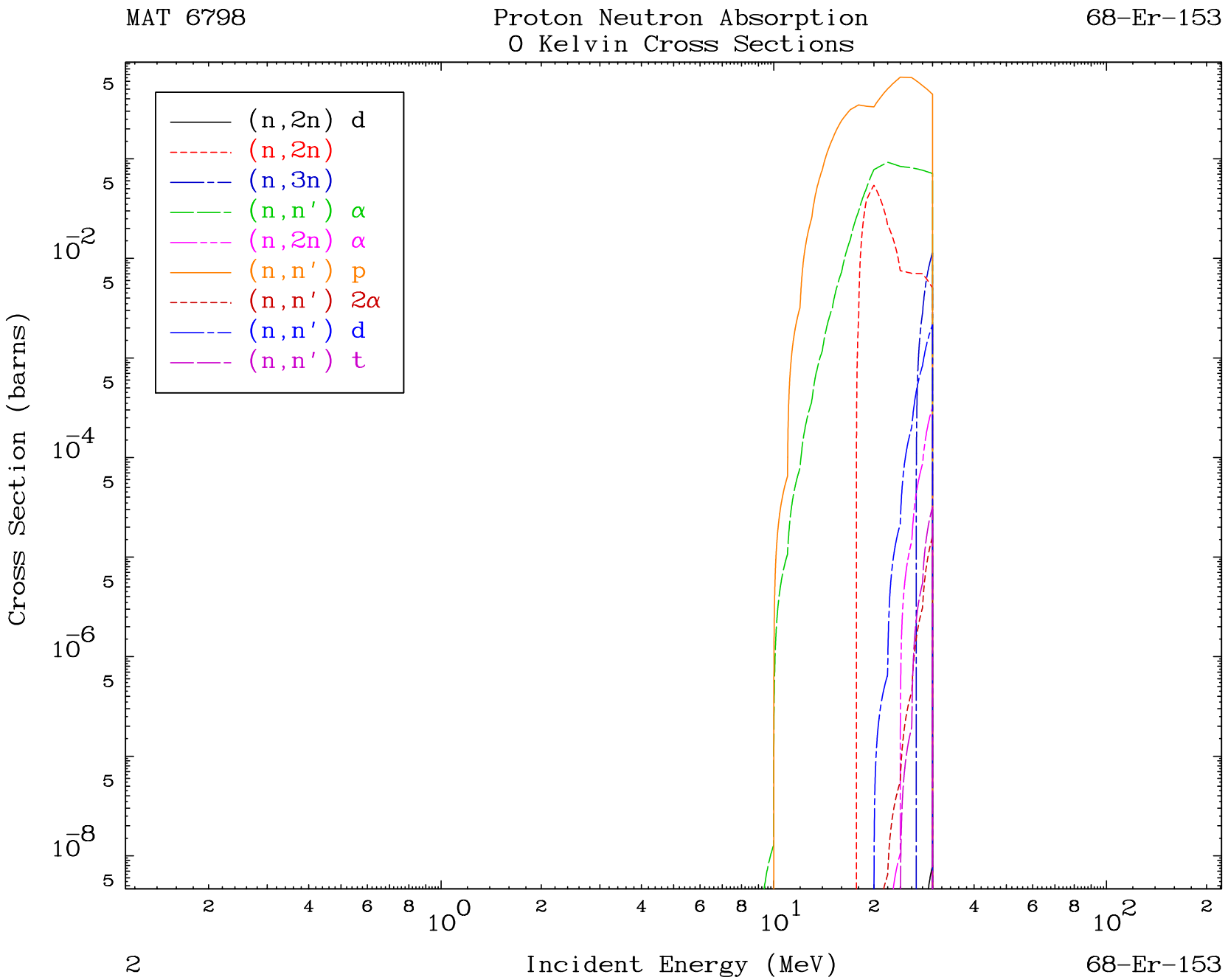
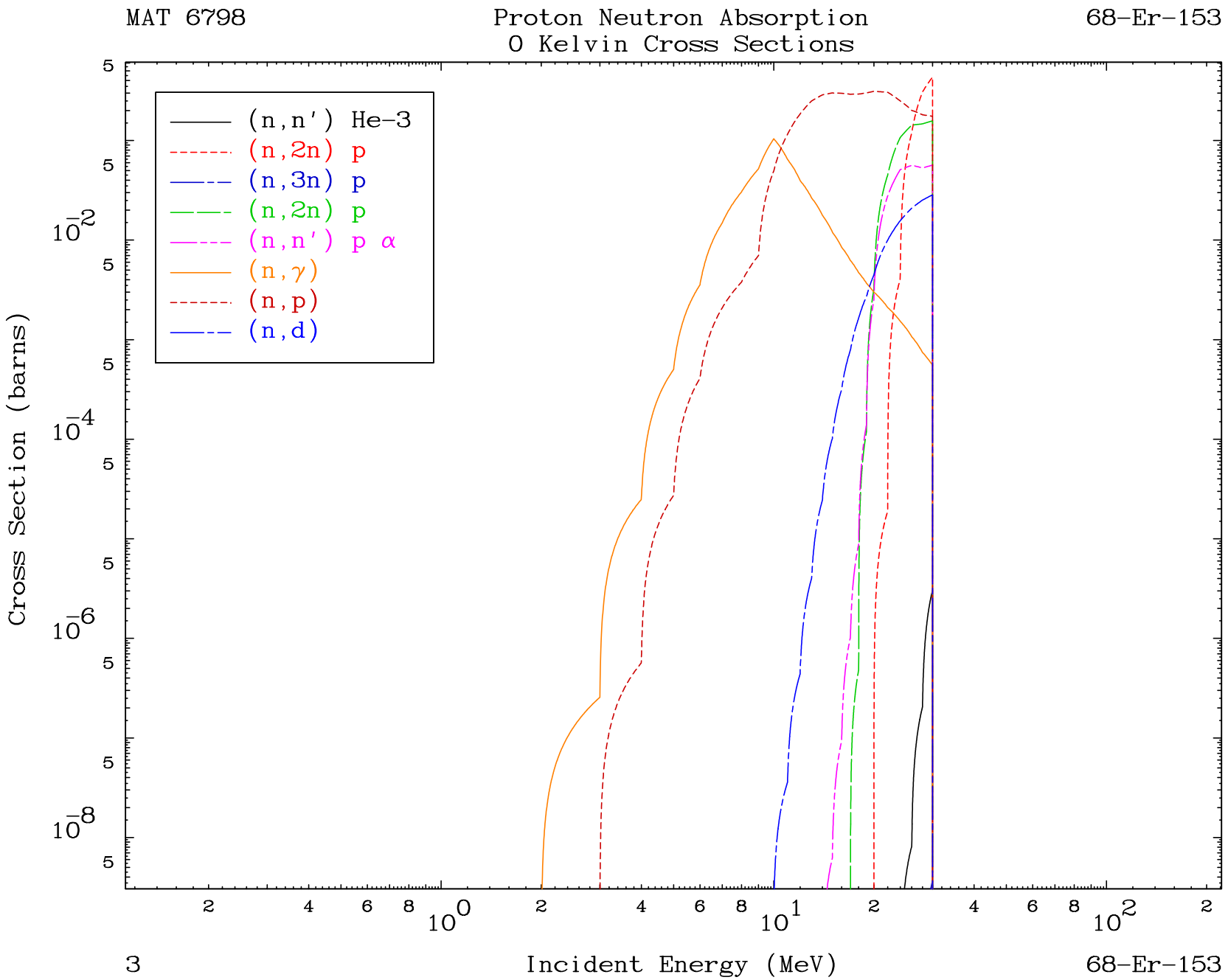
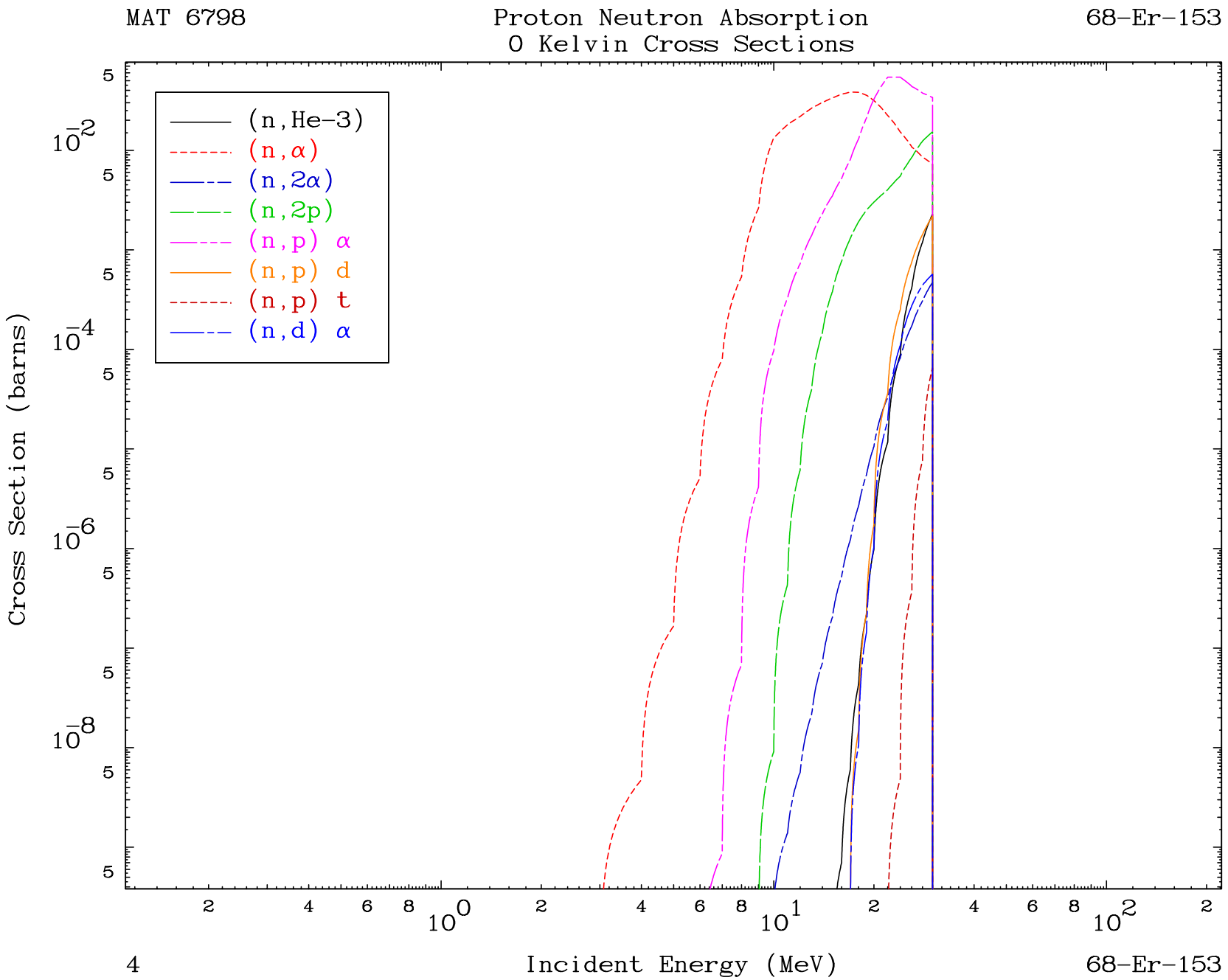
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

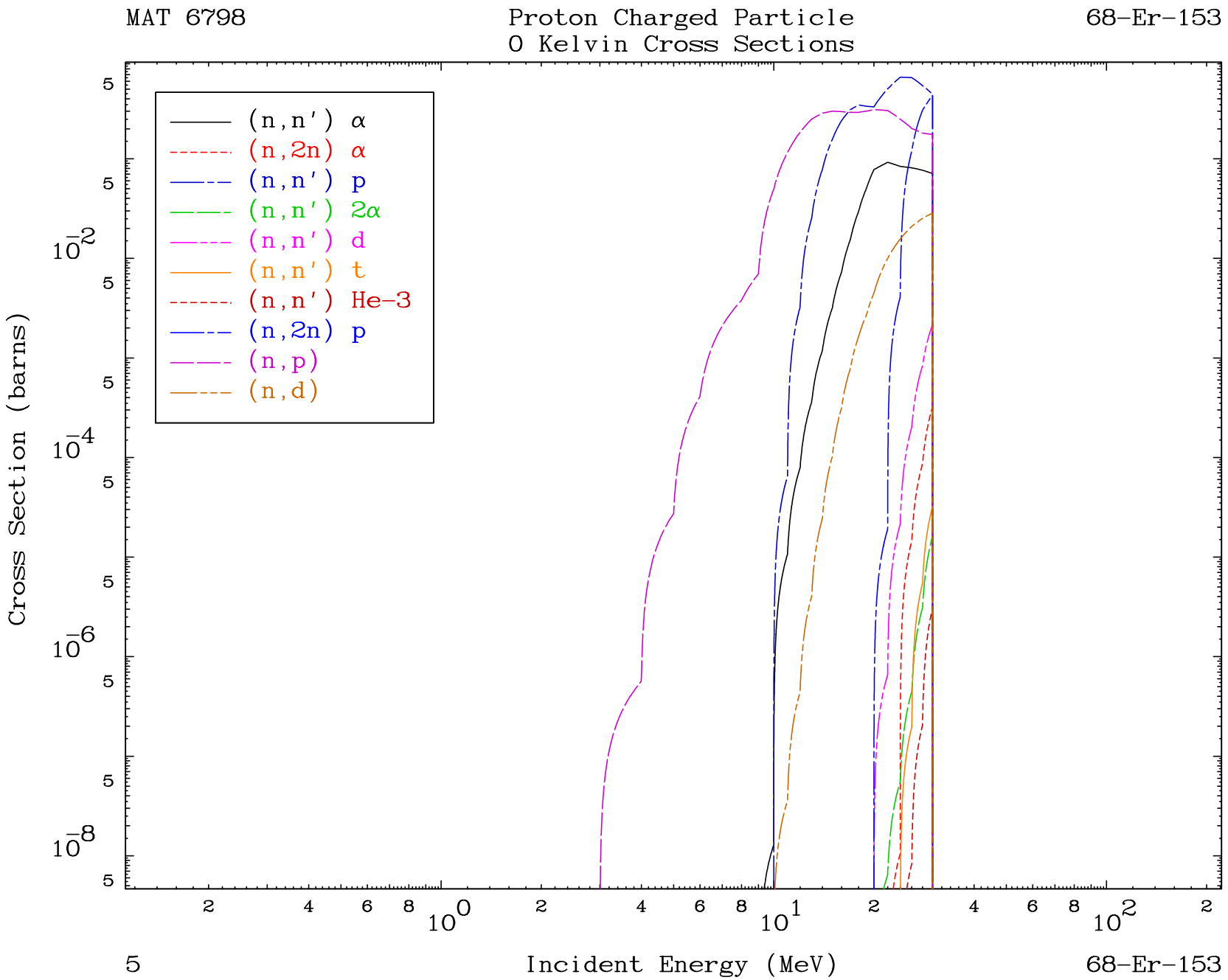
Press Mouse Button to Start

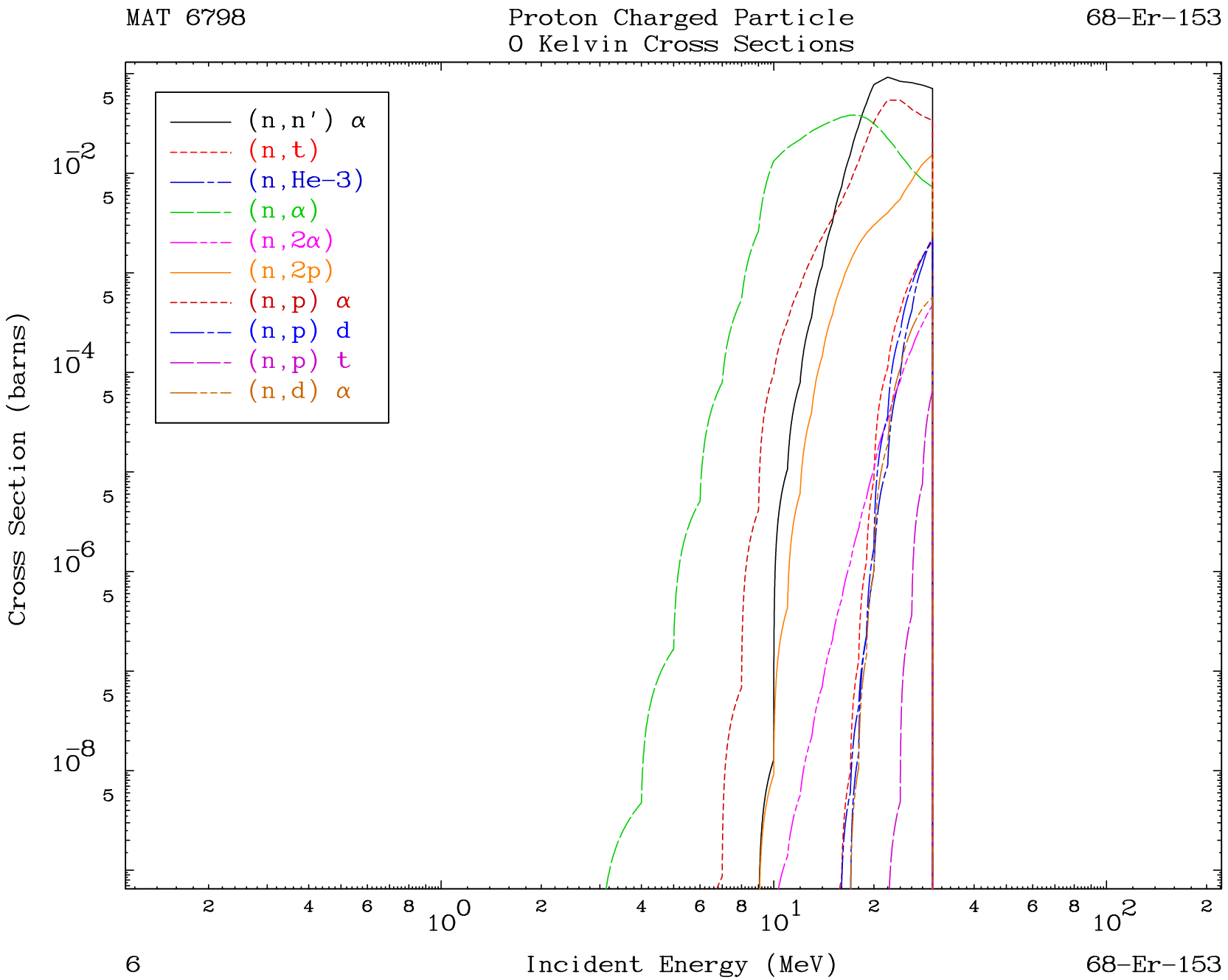

MAT 6798
Proton Major
68-Er-153
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
68-Er-153
1

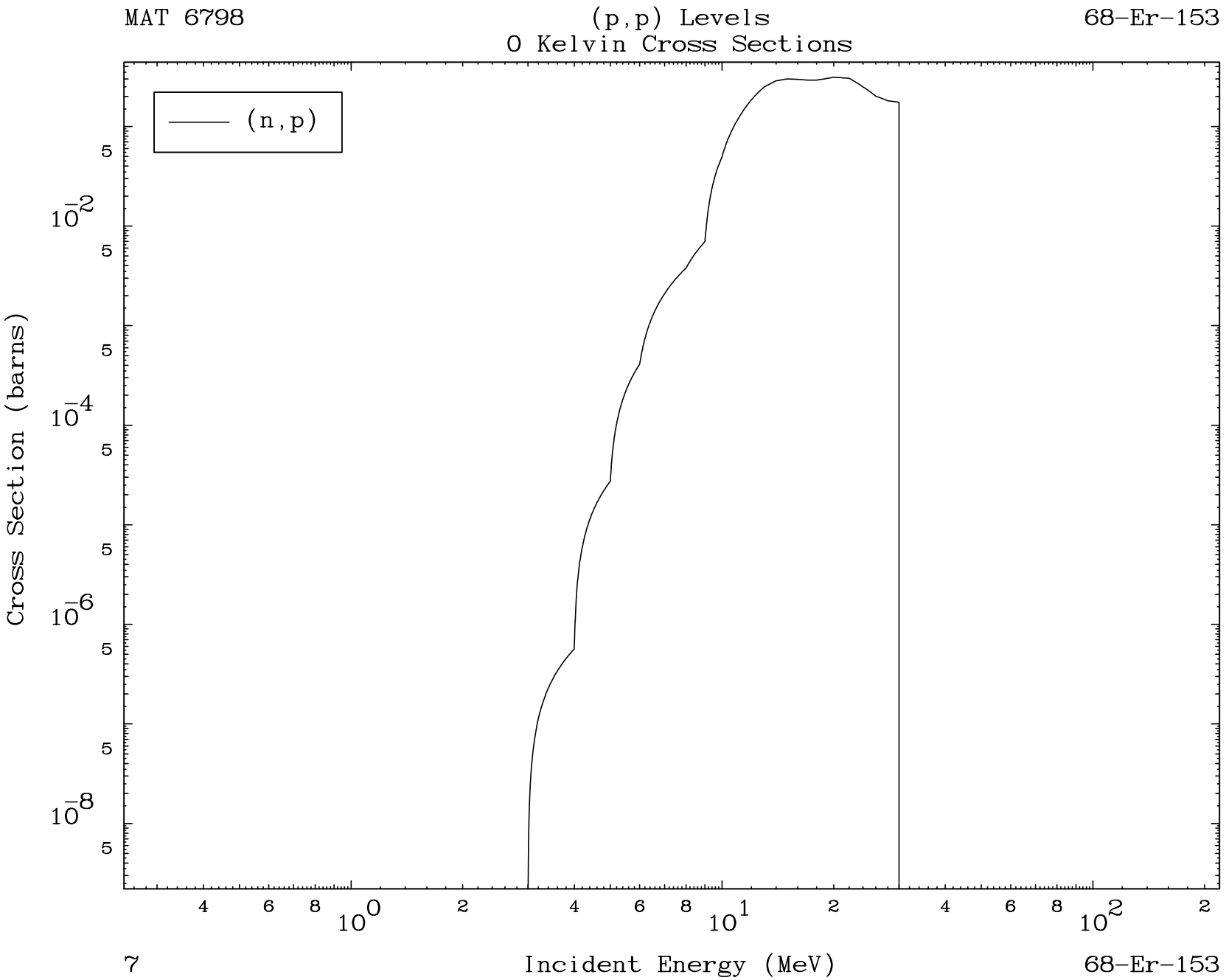

MAT 6798
Proton Neutron Absorption
0 Kelvin Cross Sections
68-Er-153
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
2
68-Er-153

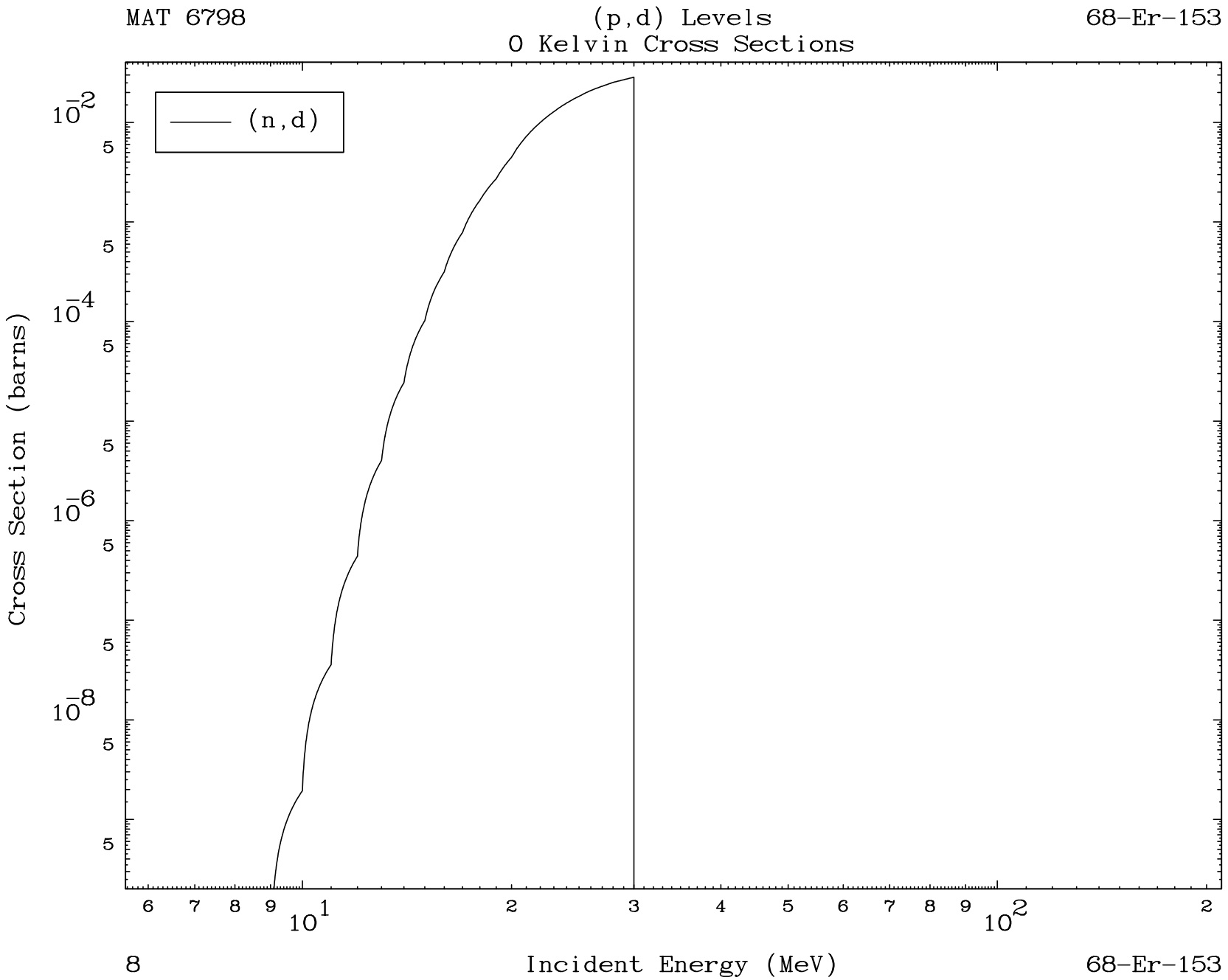

MAT 6798
Proton Neutron Absorption
0 Kelvin Cross Sections
68-Er-153
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
3
68-Er-153

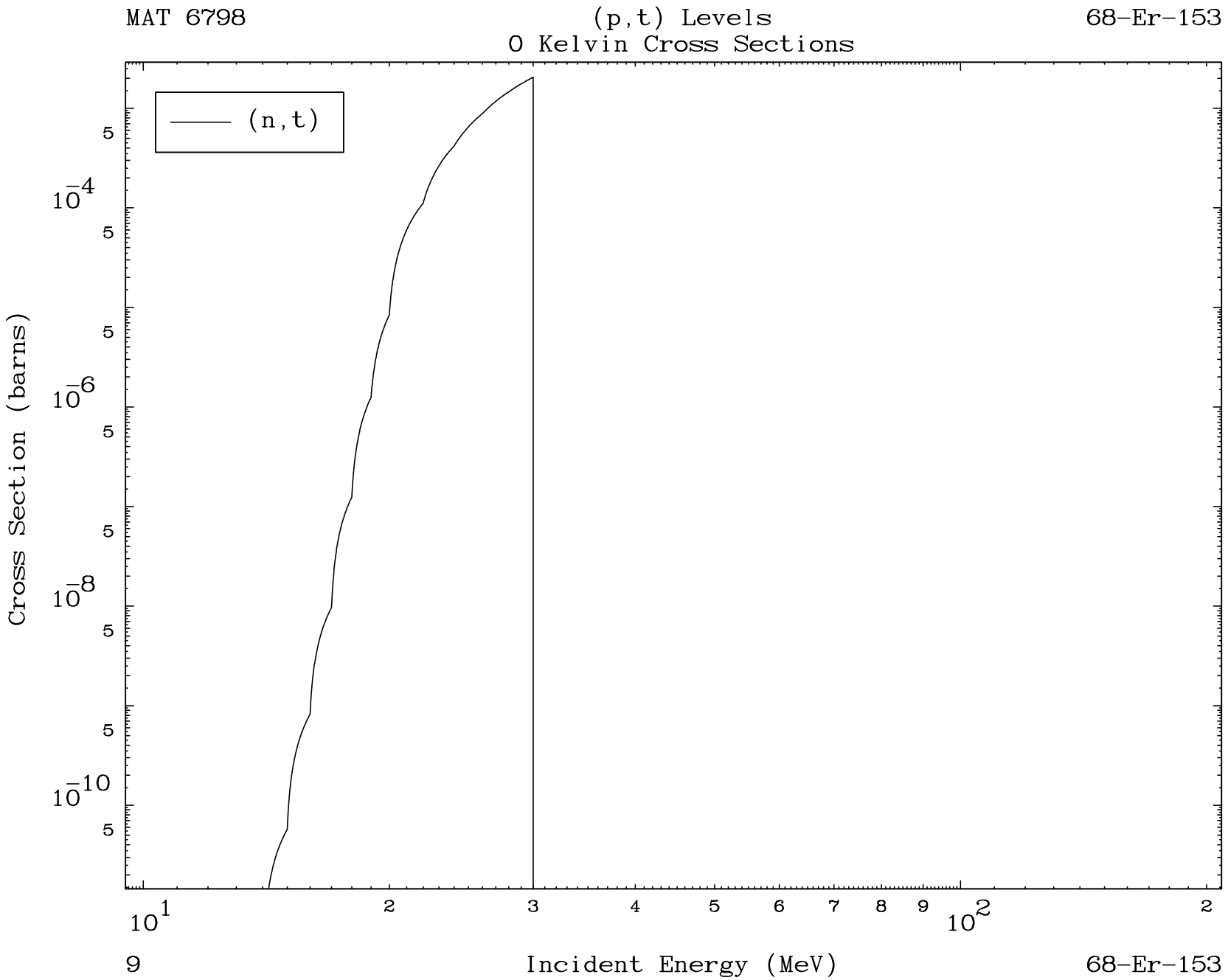

MAT 6798
Proton Neutron Absorption
0 Kelvin Cross Sections
68-Er-153
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
68-Er-153

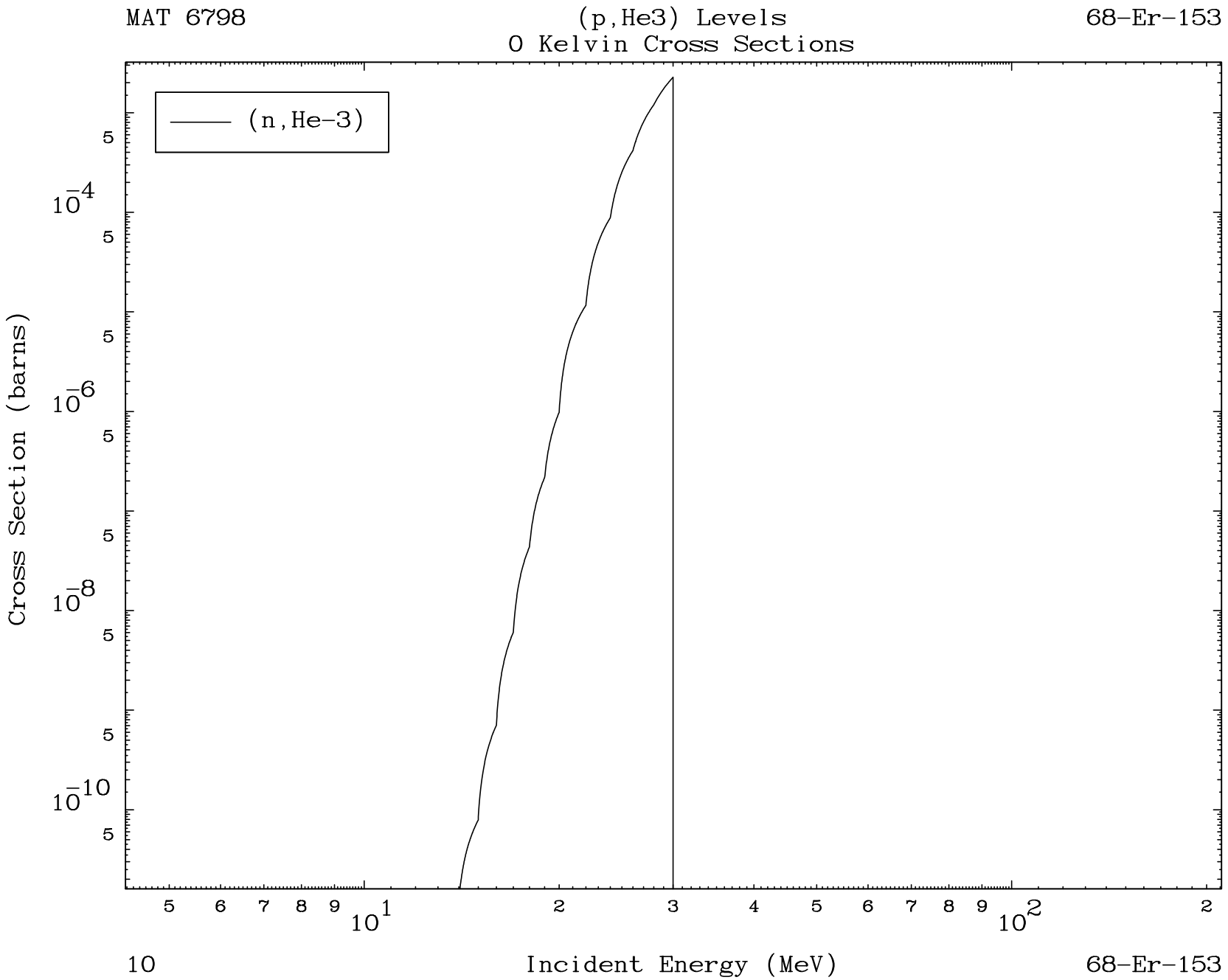

MAT 6798
Proton Charged Particle
0 Kelvin Cross Sections
68-Er-153
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
68-Er-153

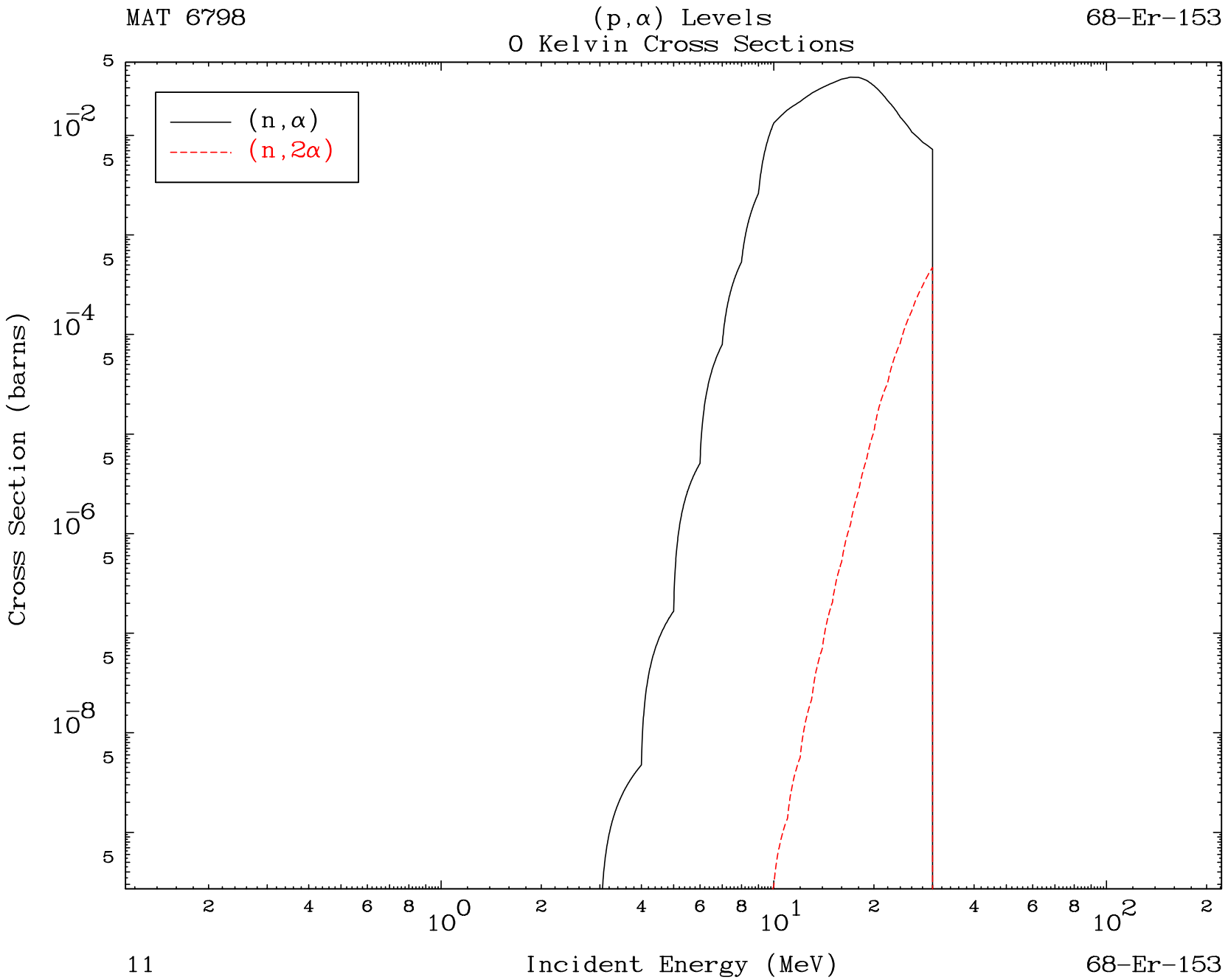

MAT 6798
Proton Charged Particle
0 Kelvin Cross Sections
68-Er-153
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
68-Er-153

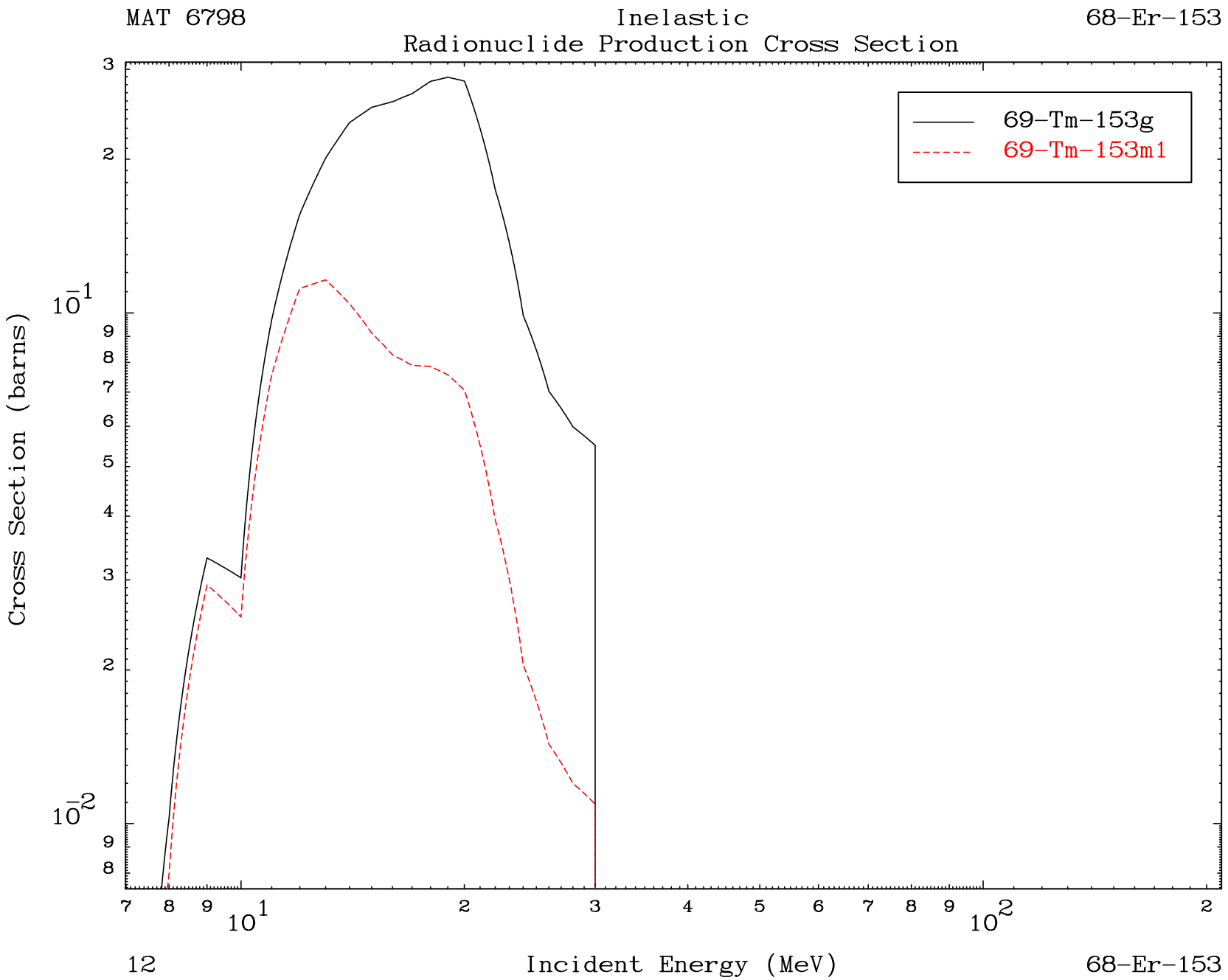

MAT 6798
(p,p) Levels
68-Er-153
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4
6
8
100
2
101
102
Incident Energy (MeV)
7
68-Er-153

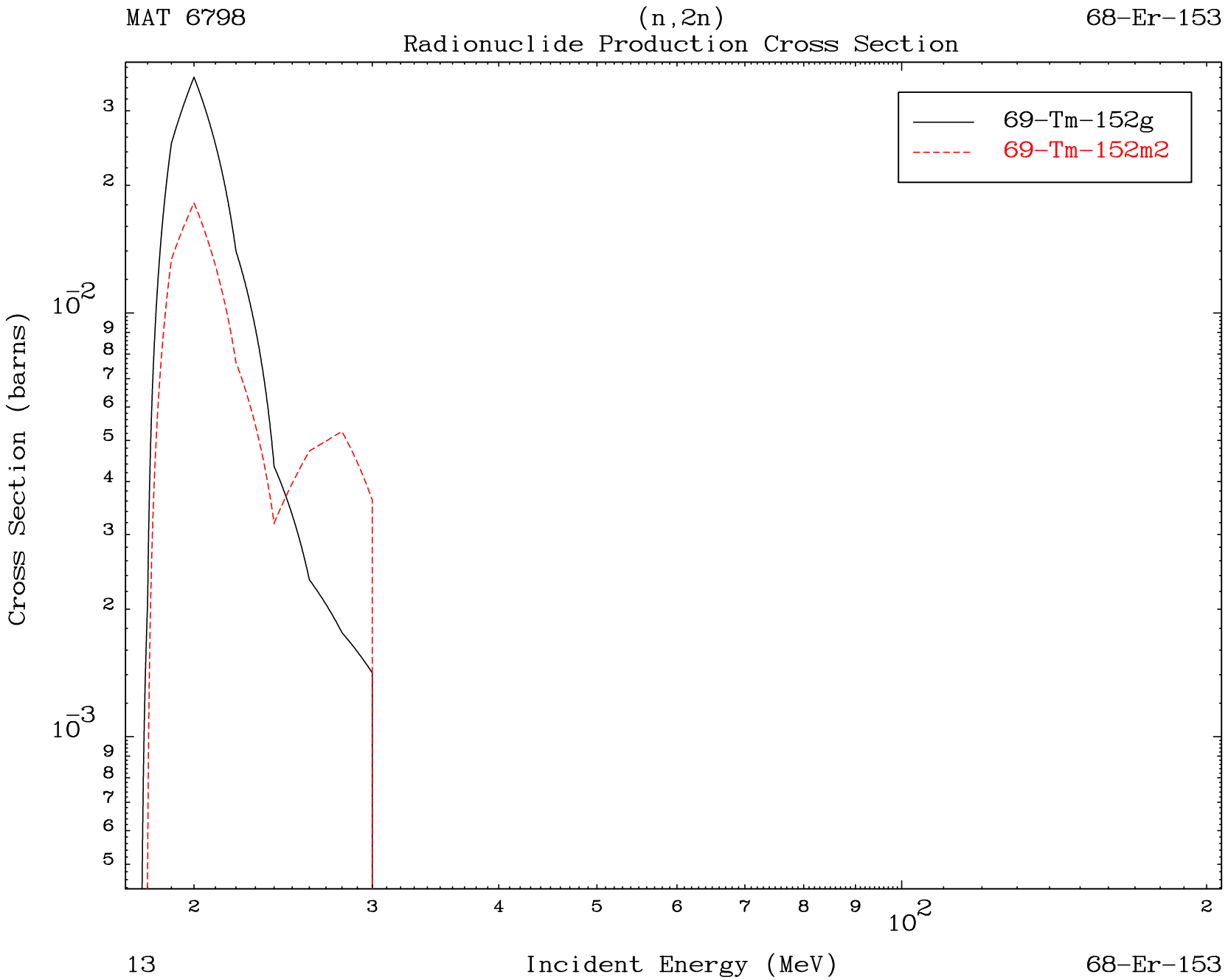

MAT 6798
(p,d) Levels
68-Er-153
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
Incident Energy (MeV)
8
68-Er-153

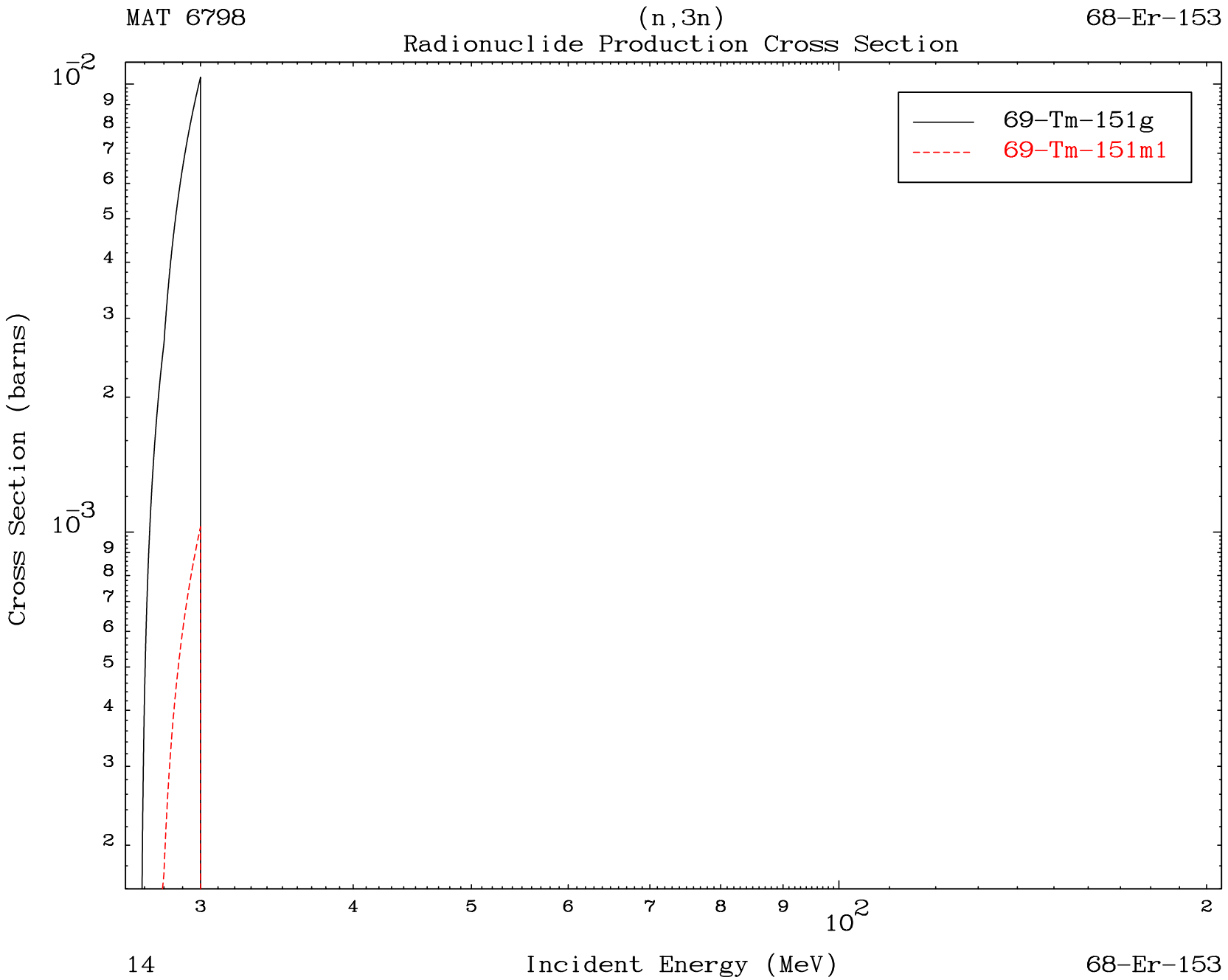

MAT 6798
(p,t) Levels
68-Er-153
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
Incident Energy (MeV)
9
68-Er-153

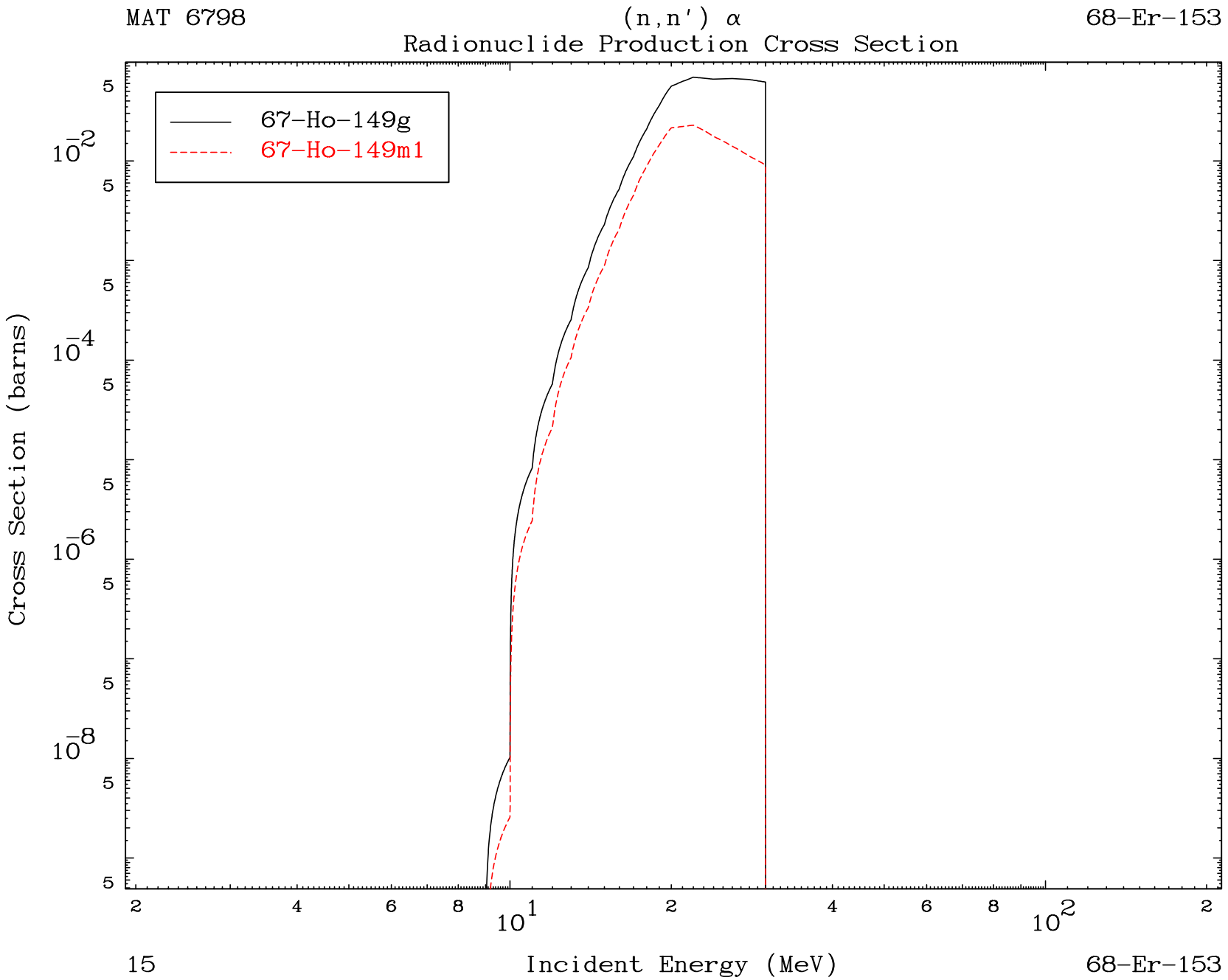

MAT 6798
(p,He3) Levels
68-Er-153
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^1
2
3
4
10^2
Incident Energy (MeV)
10
68-Er-153

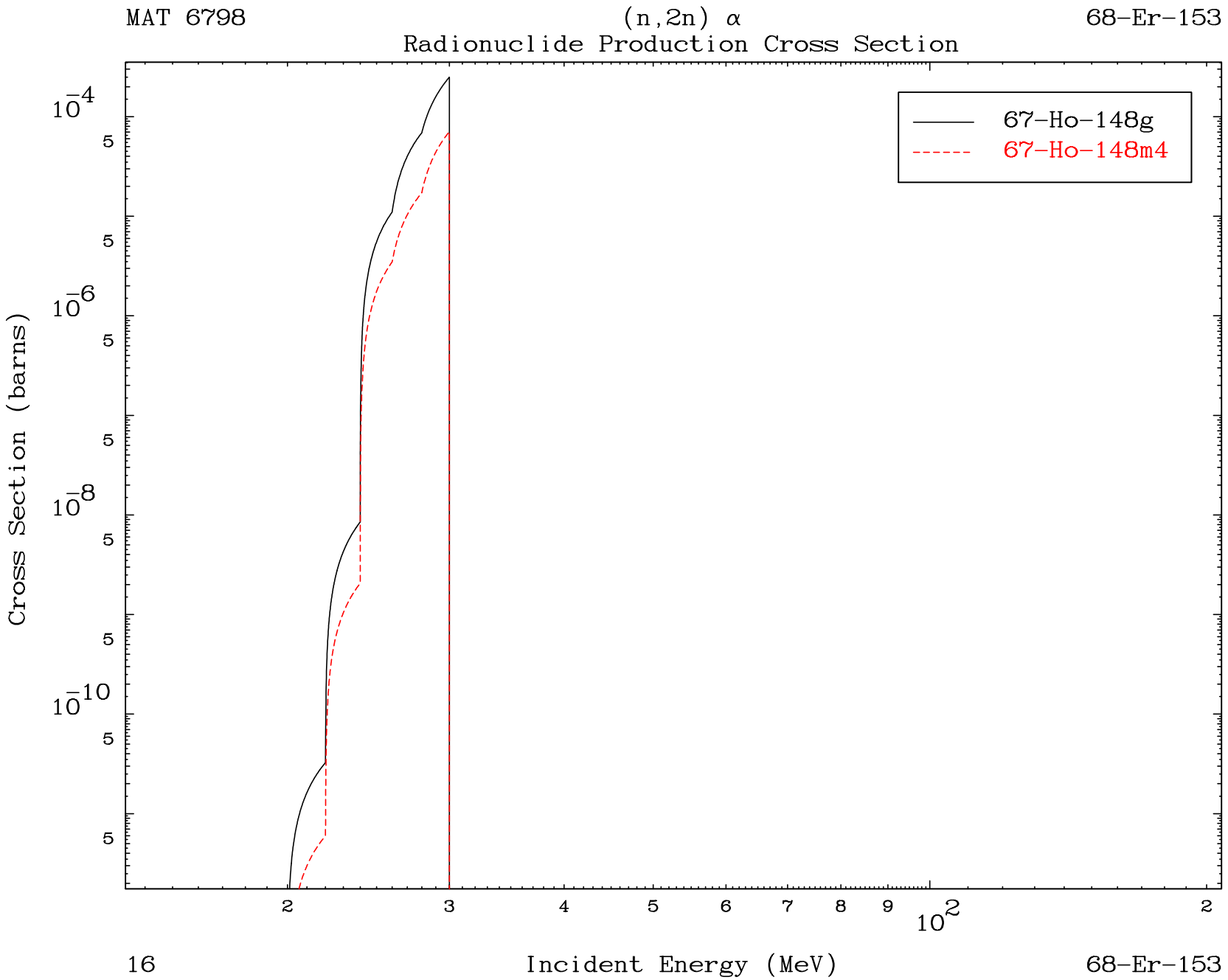

MAT 6798
(p,α) Levels
68-Er-153
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
68-Er-153

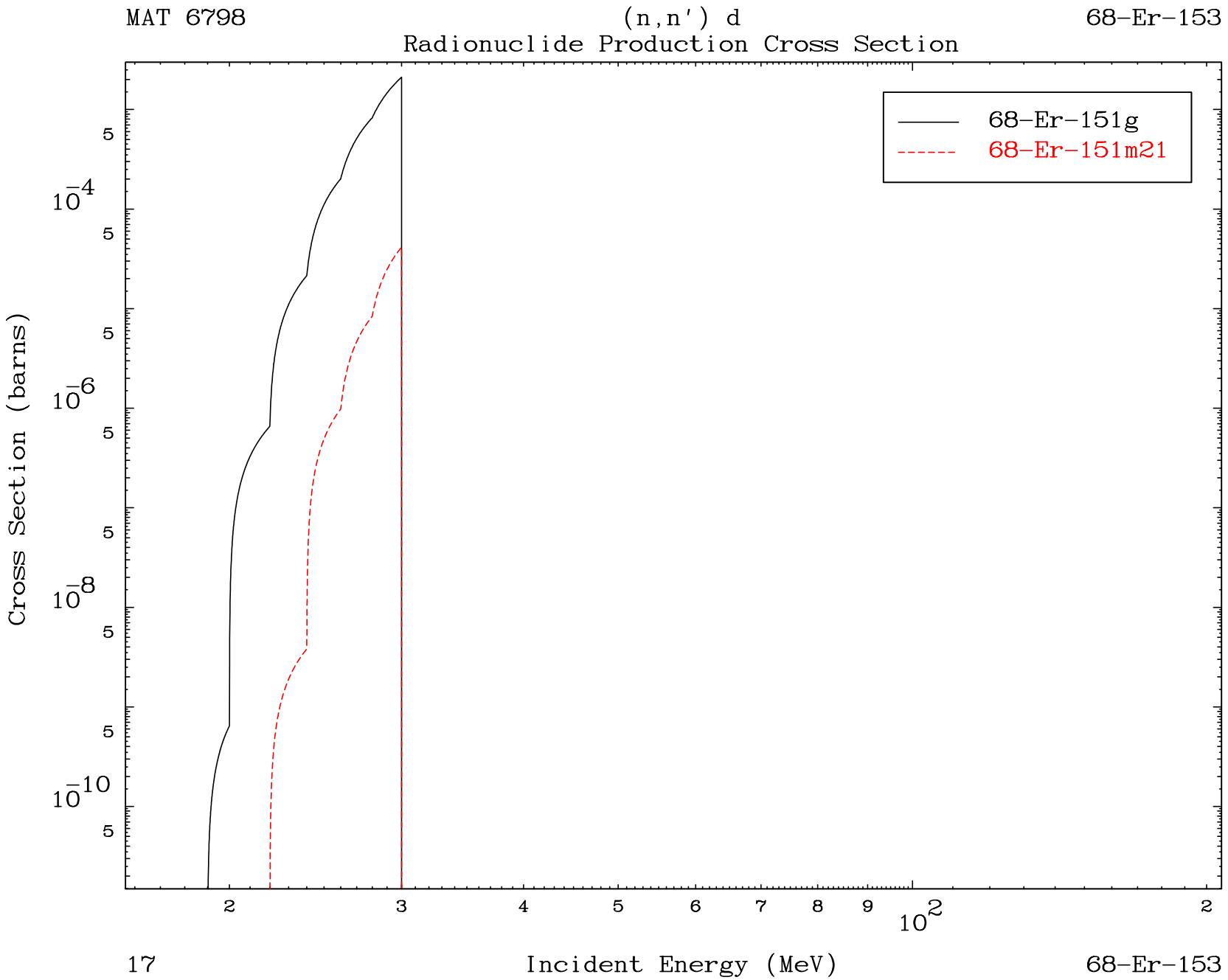

MAT 6798
Inelastic
68-Er-153
Radionuclide Production Cross Section
69-Tm-153g
69-Tm-153m1
Cross Section (barns)
Incident Energy (MeV)
12
68-Er-153

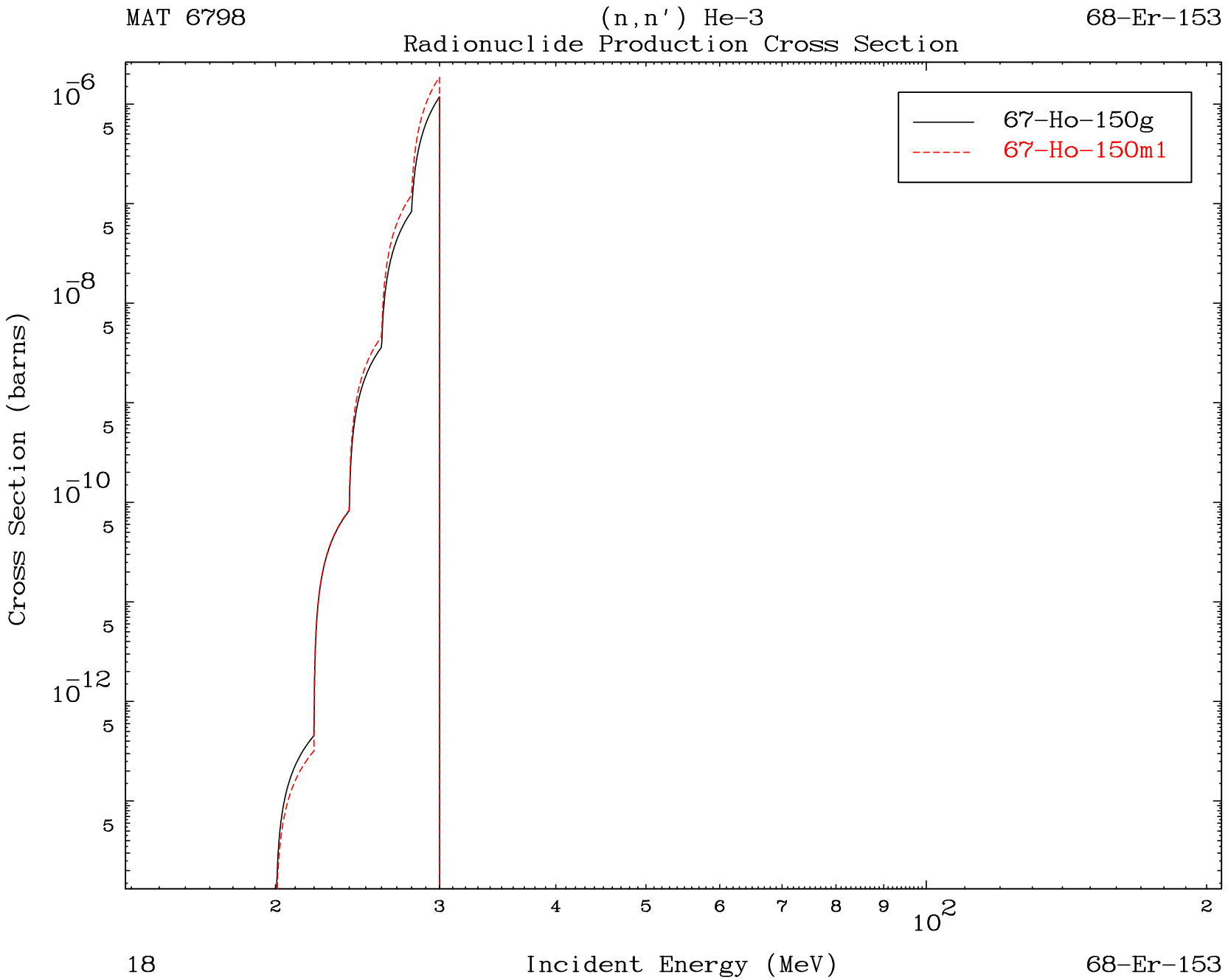

MAT 6798
(n,2n)
68-Er-153
Radionuclide Production Cross Section
69-Tm-152g
69-Tm-152m2
Cross Section (barns)
Incident Energy (MeV)
13
68-Er-153

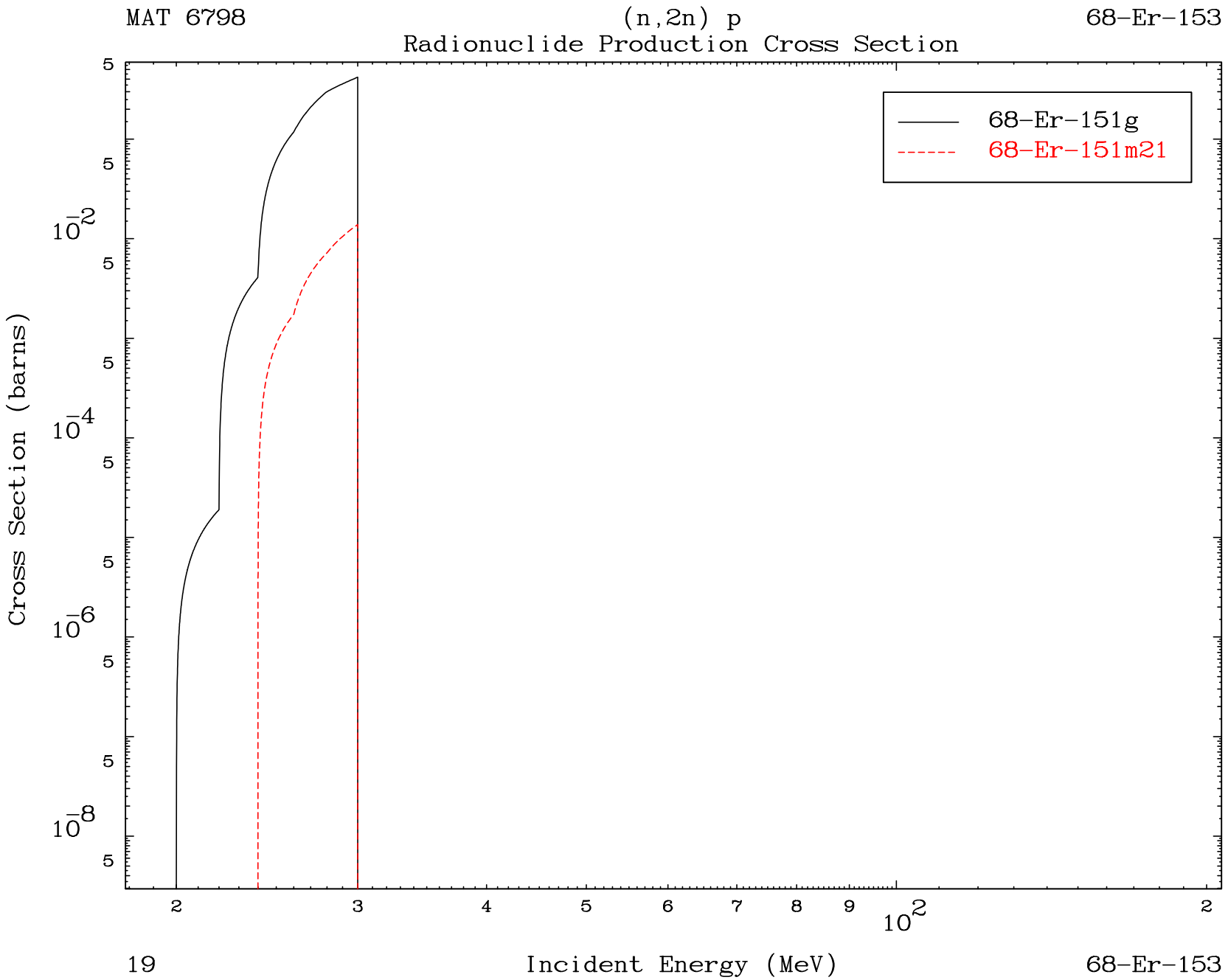

MAT 6798
(n,3n)
68-Er-153
Radionuclide Production Cross Section
69-Tm-151g
69-Tm-151m1
Cross Section (barns)
Incident Energy (MeV)
14
68-Er-153

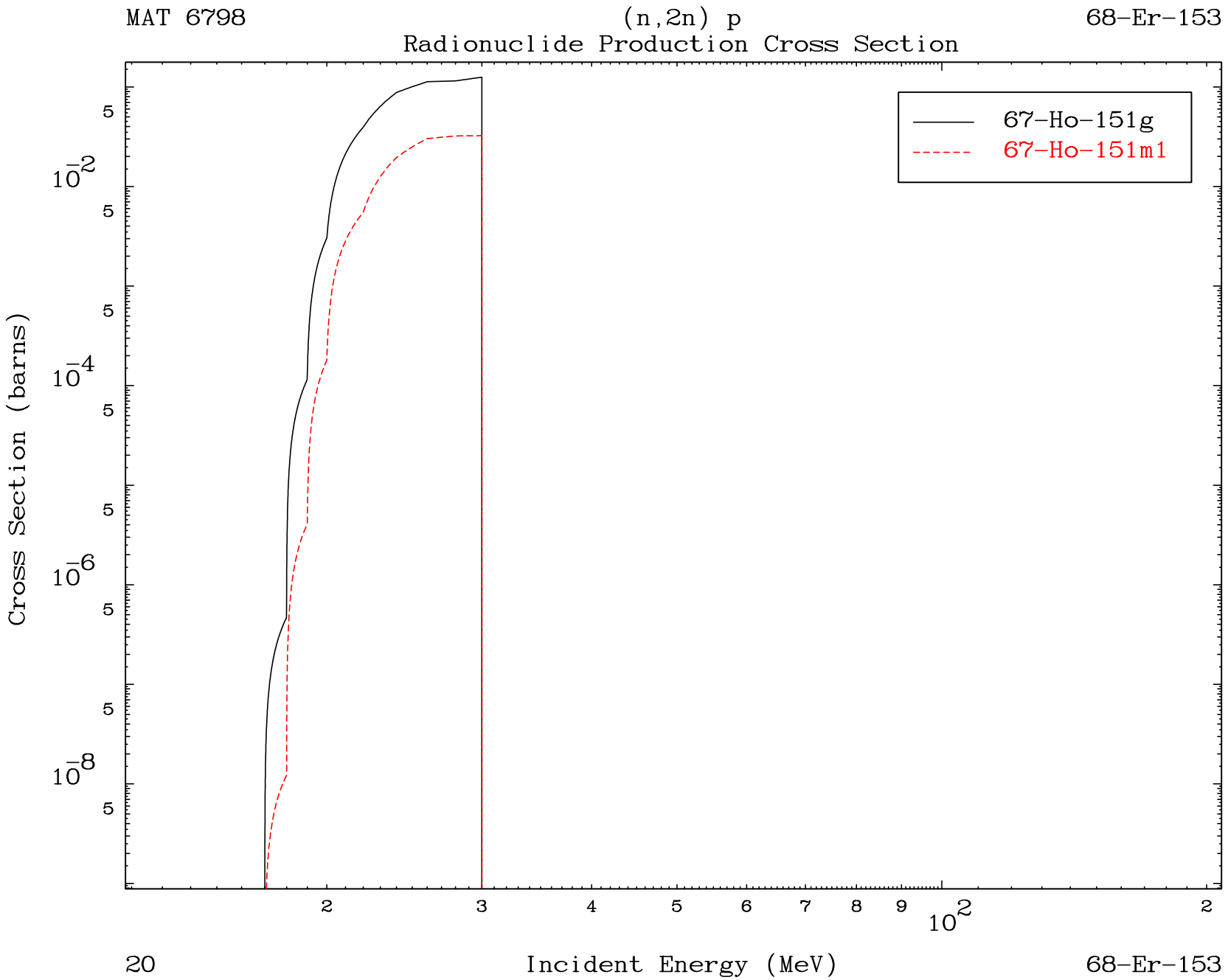

MAT 6798
(n,n') α
68-Er-153
Radionuclide Production Cross Section
67-Ho-149g
67-Ho-149m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
101
102
15
Incident Energy (MeV)
68-Er-153

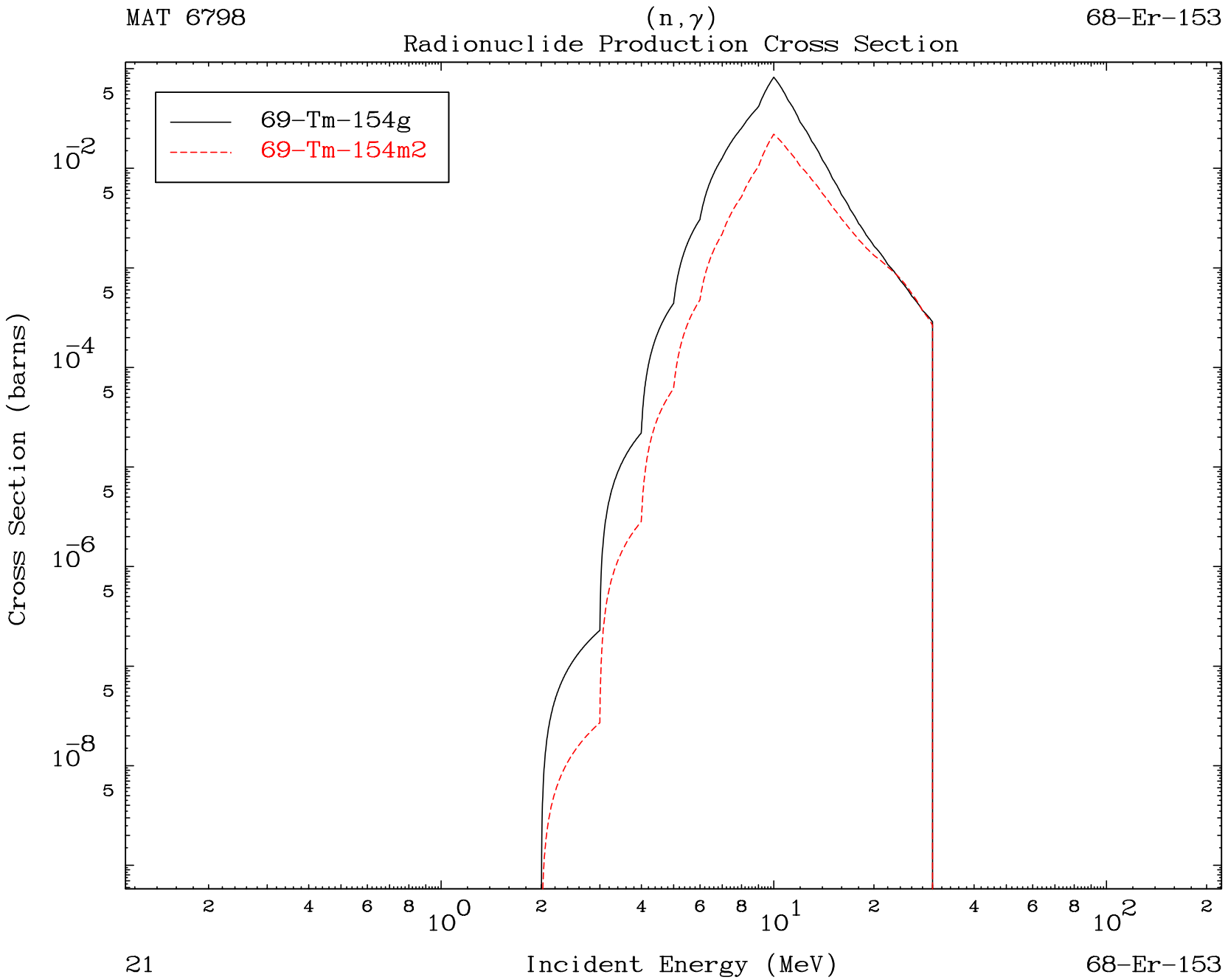

MAT 6798
(n,2n) α
68-Er-153
Radionuclide Production Cross Section
67-Ho-148g
67-Ho-148m4
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
68-Er-153

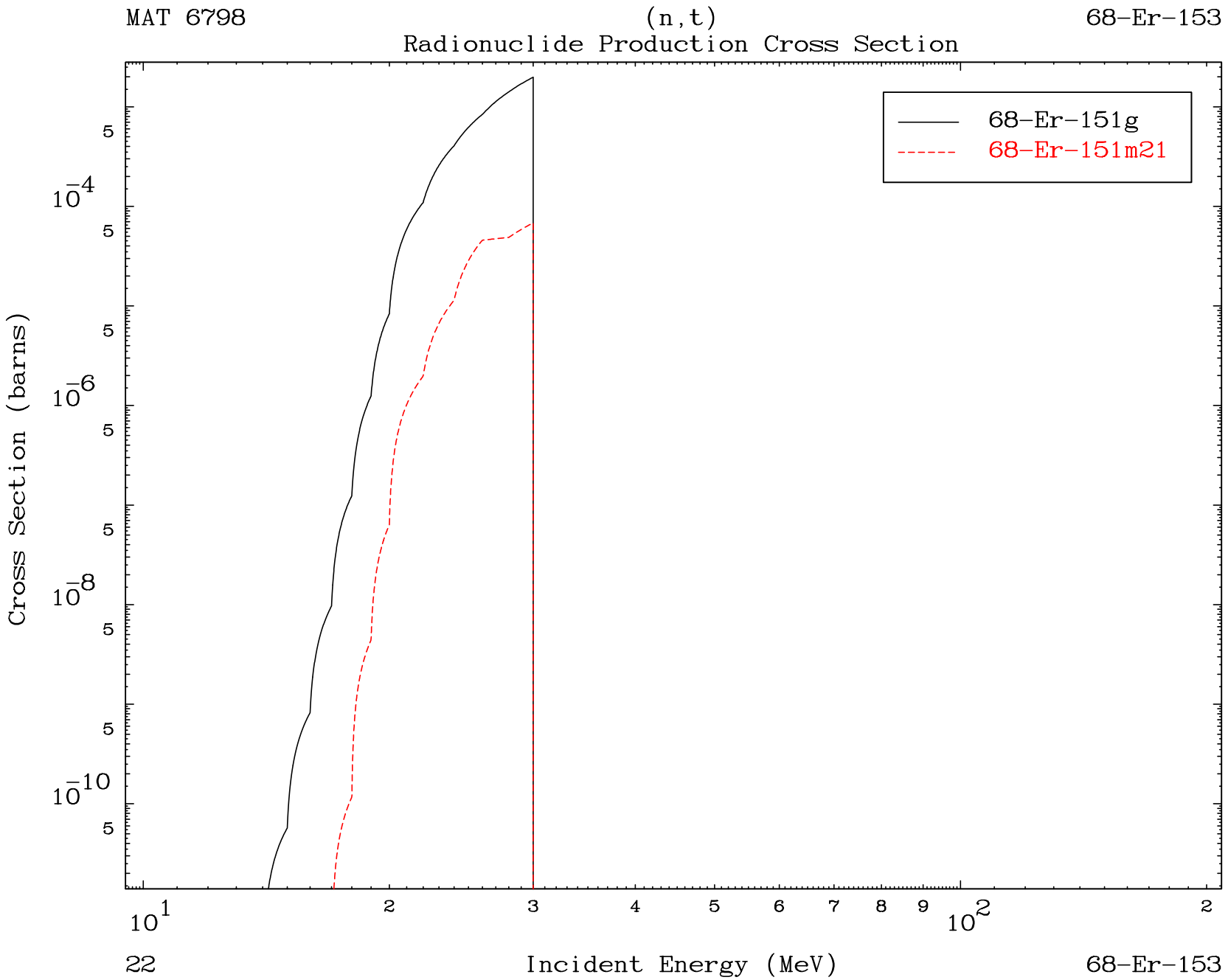

MAT 6798
(n,n') d
68-Er-153
Radionuclide Production Cross Section
68-Er-151g
68-Er-151m21
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
68-Er-153

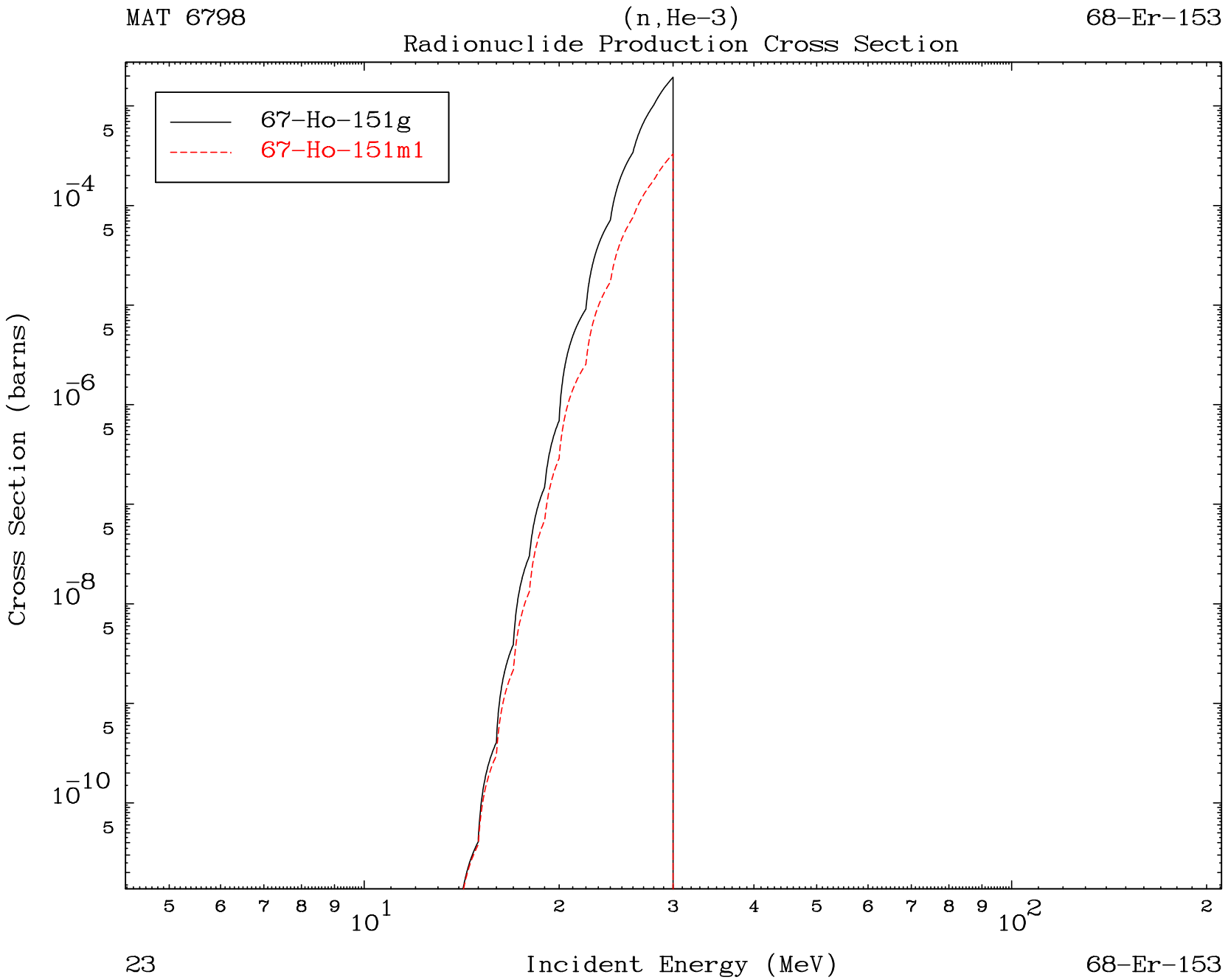

MAT 6798
(n,n') He-3
68-Er-153
Radionuclide Production Cross Section
67-Ho-150g
67-Ho-150m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
68-Er-153

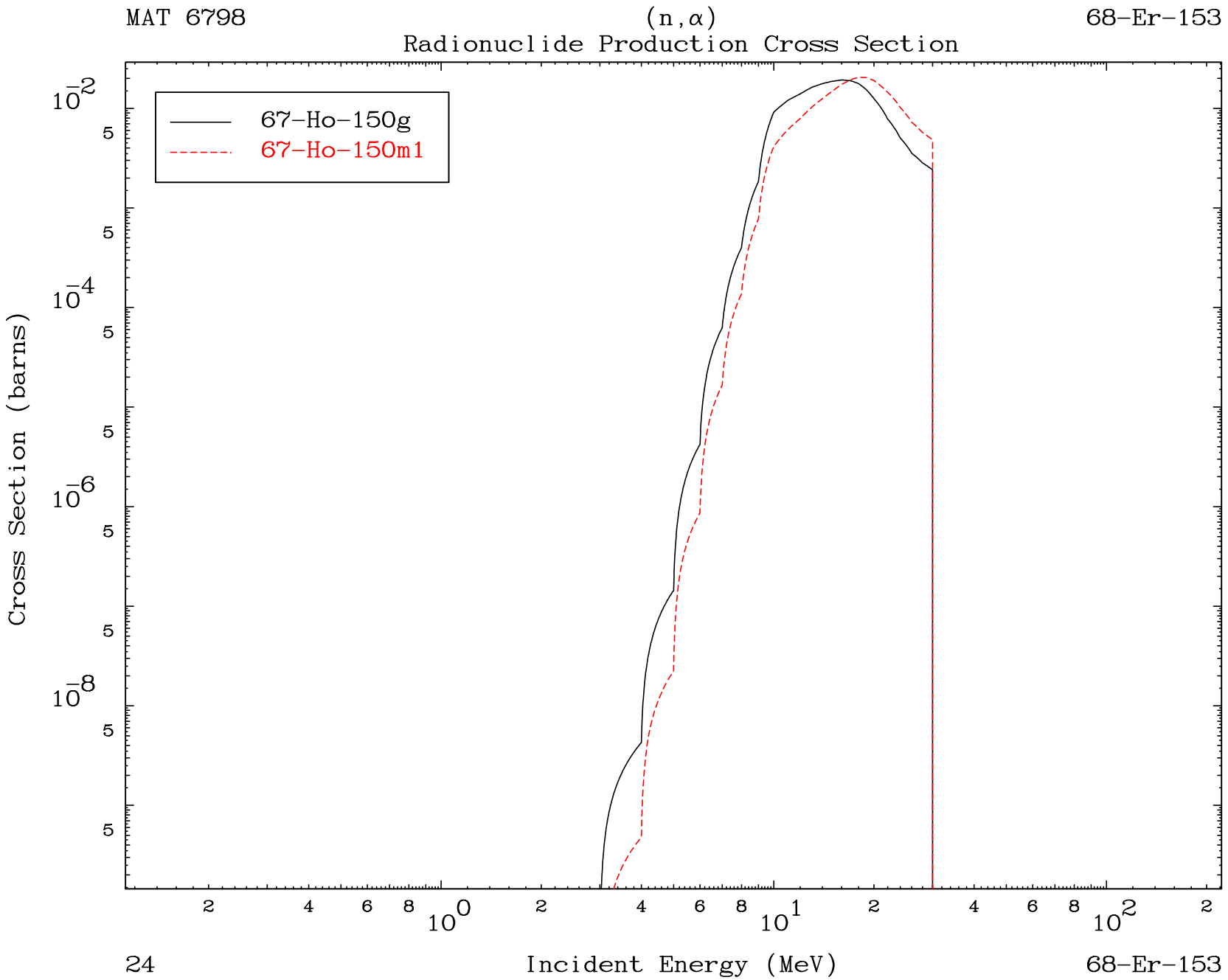

MAT 6798
(n,2n) p
68-Er-153
Radionuclide Production Cross Section
68-Er-151g
68-Er-151m21
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
68-Er-153

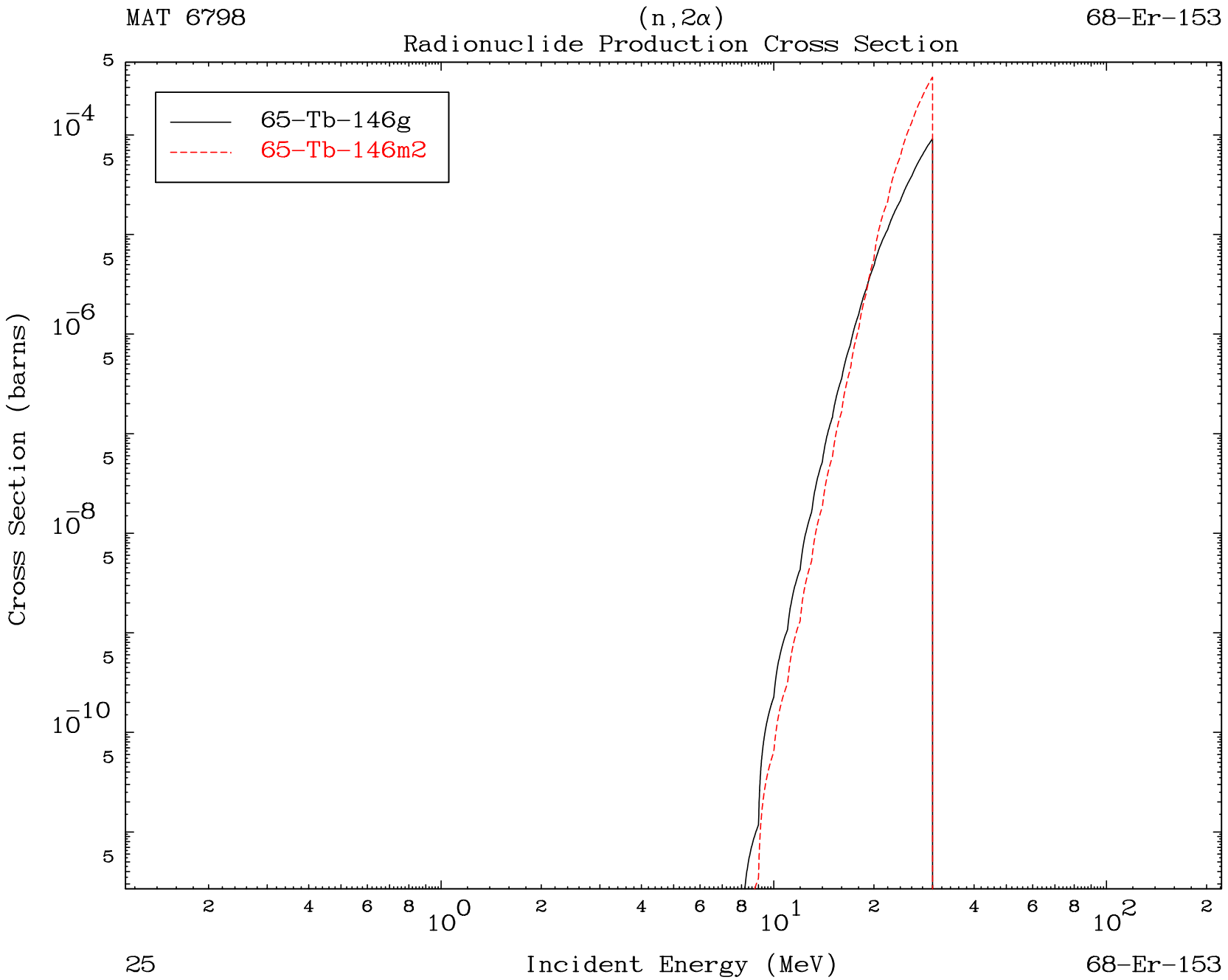

MAT 6798
(n,2n) p
68-Er-153
Radionuclide Production Cross Section
67-Ho-151g
67-Ho-151m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
68-Er-153

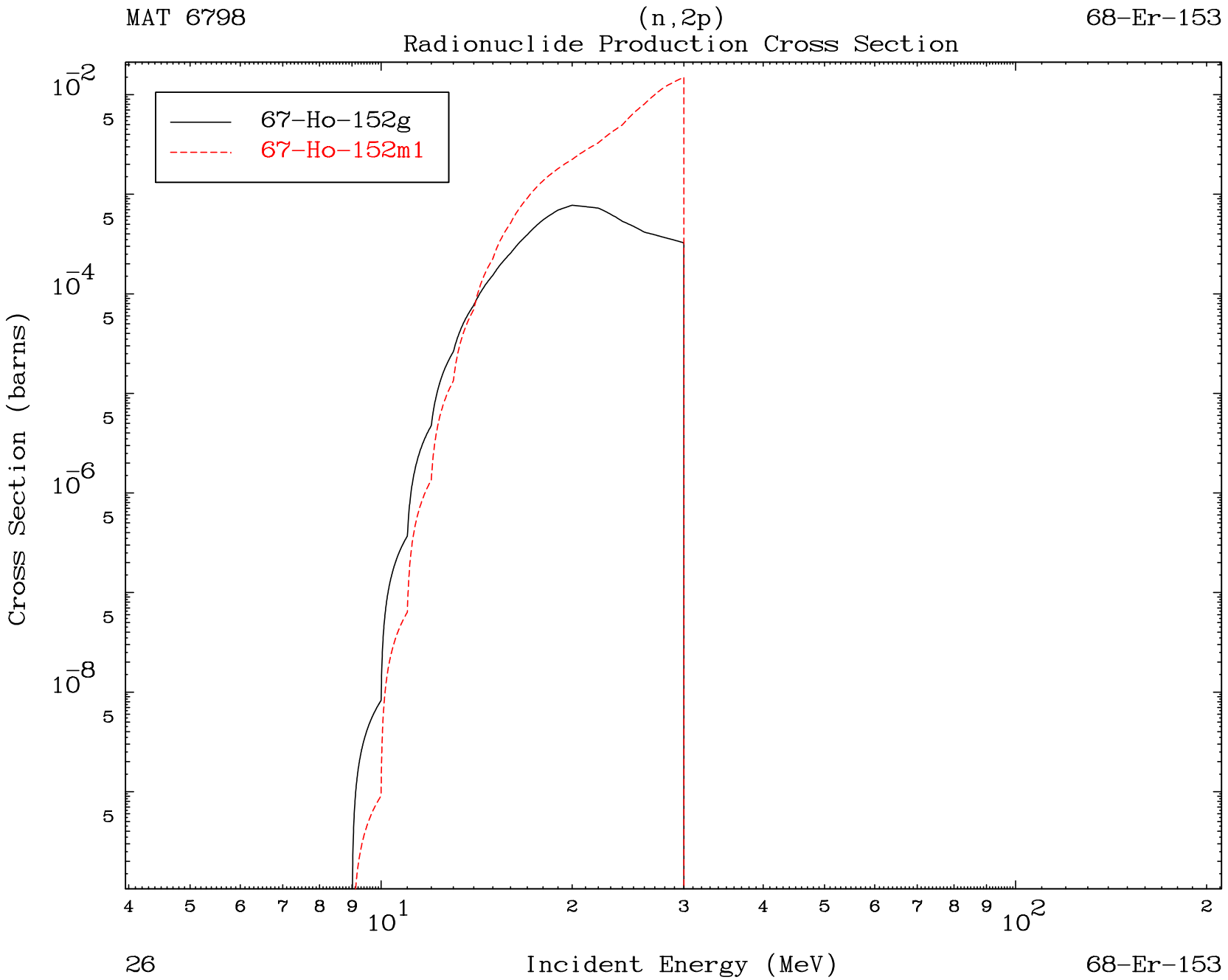

MAT 6798
(n,γ)
68-Er-153
Radionuclide Production Cross Section
69-Tm-154g
69-Tm-154m2
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
21
68-Er-153

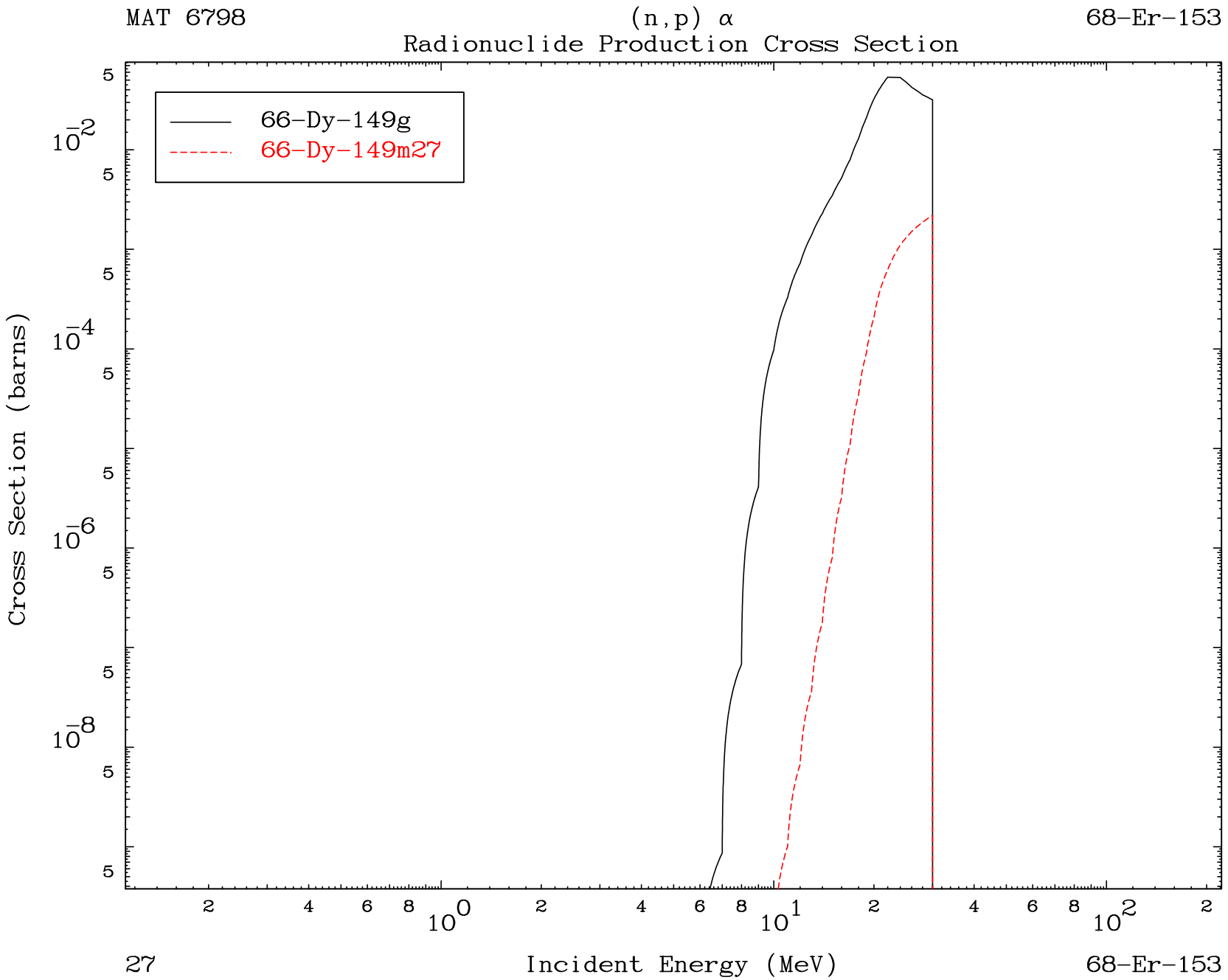

MAT 6798
(n,t)
68-Er-153
Radionuclide Production Cross Section
68-Er-151g
68-Er-151m21
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
22
Incident Energy (MeV)
68-Er-153

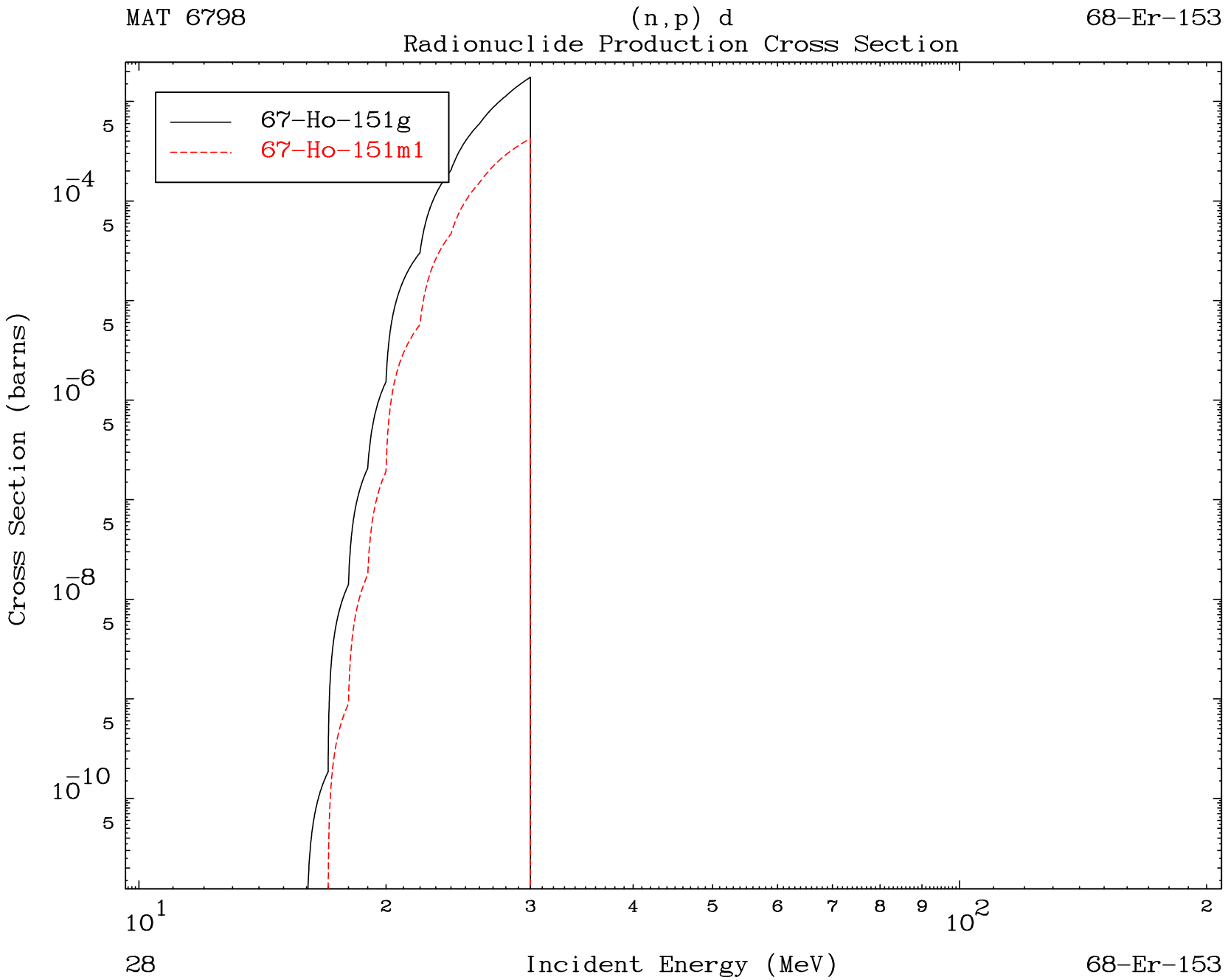

MAT 6798
(n,He-3)
68-Er-153
Radionuclide Production Cross Section
67-Ho-151g
67-Ho-151m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
23
68-Er-153

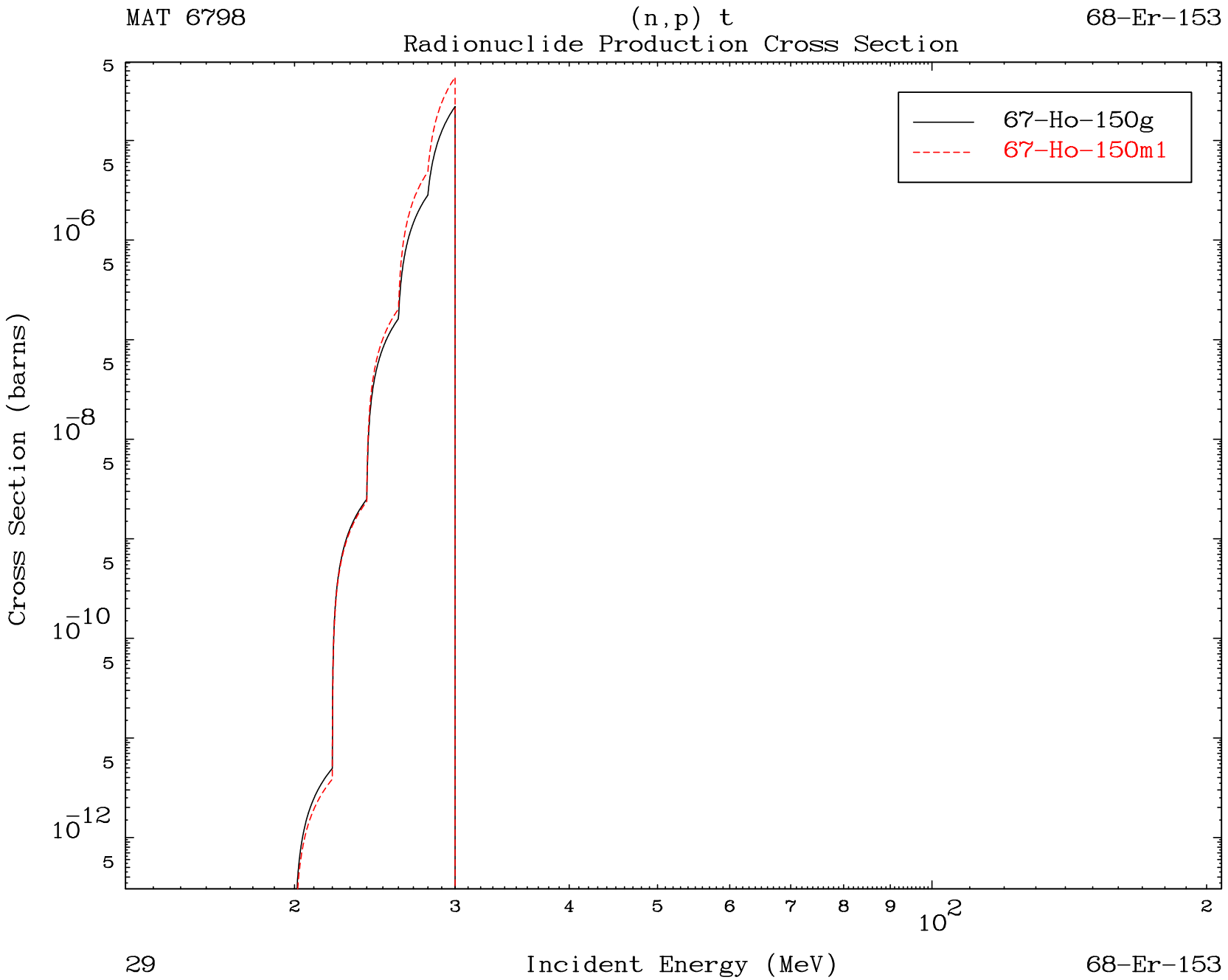

MAT 6798
(n,α)
68-Er-153
Radionuclide Production Cross Section
67-Ho-150g
67-Ho-150m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10^0
10^1
10^2
2
4
6
8
24
Incident Energy (MeV)
68-Er-153


MAT 6798
(n,2α)
68-Er-153
Radionuclide Production Cross Section
65-Tb-146g
65-Tb-146m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
25
68-Er-153


MAT 6798
(n,2p)
68-Er-153
Radionuclide Production Cross Section
67-Ho-152g
67-Ho-152m1
Cross Section (barns)
Incident Energy (MeV)
26
68-Er-153


MAT 6798
(n,p) α
68-Er-153
Radionuclide Production Cross Section
66-Dy-149g
66-Dy-149m27
Cross Section (barns)
Incident Energy (MeV)
27
68-Er-153


MAT 6798
(n,p) d
68-Er-153
Radionuclide Production Cross Section
67-Ho-151g
67-Ho-151m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
28
Incident Energy (MeV)
68-Er-153


MAT 6798
(n,p) t
68-Er-153
Radionuclide Production Cross Section
67-Ho-150g
67-Ho-150m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
29
Incident Energy (MeV)
68-Er-153