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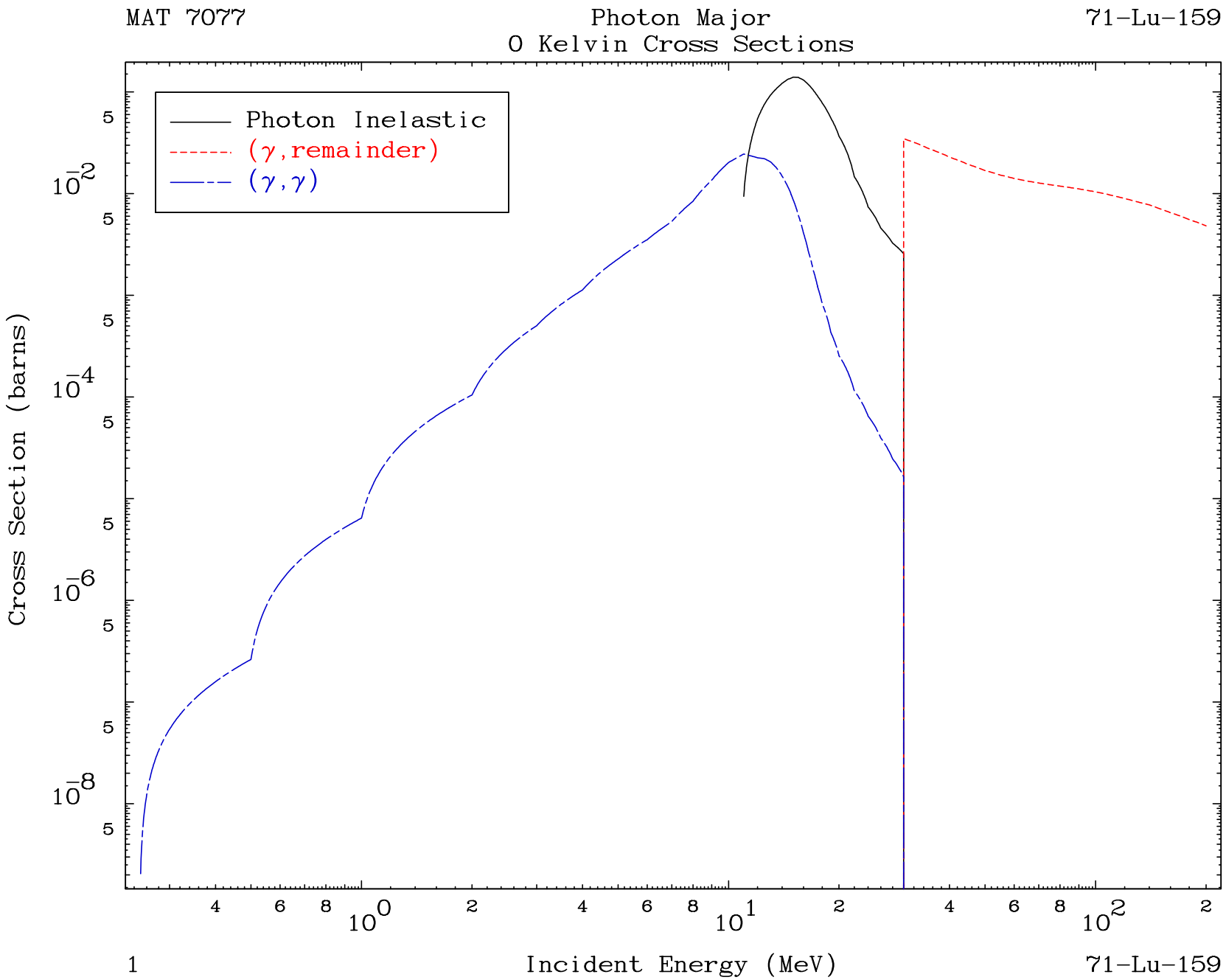
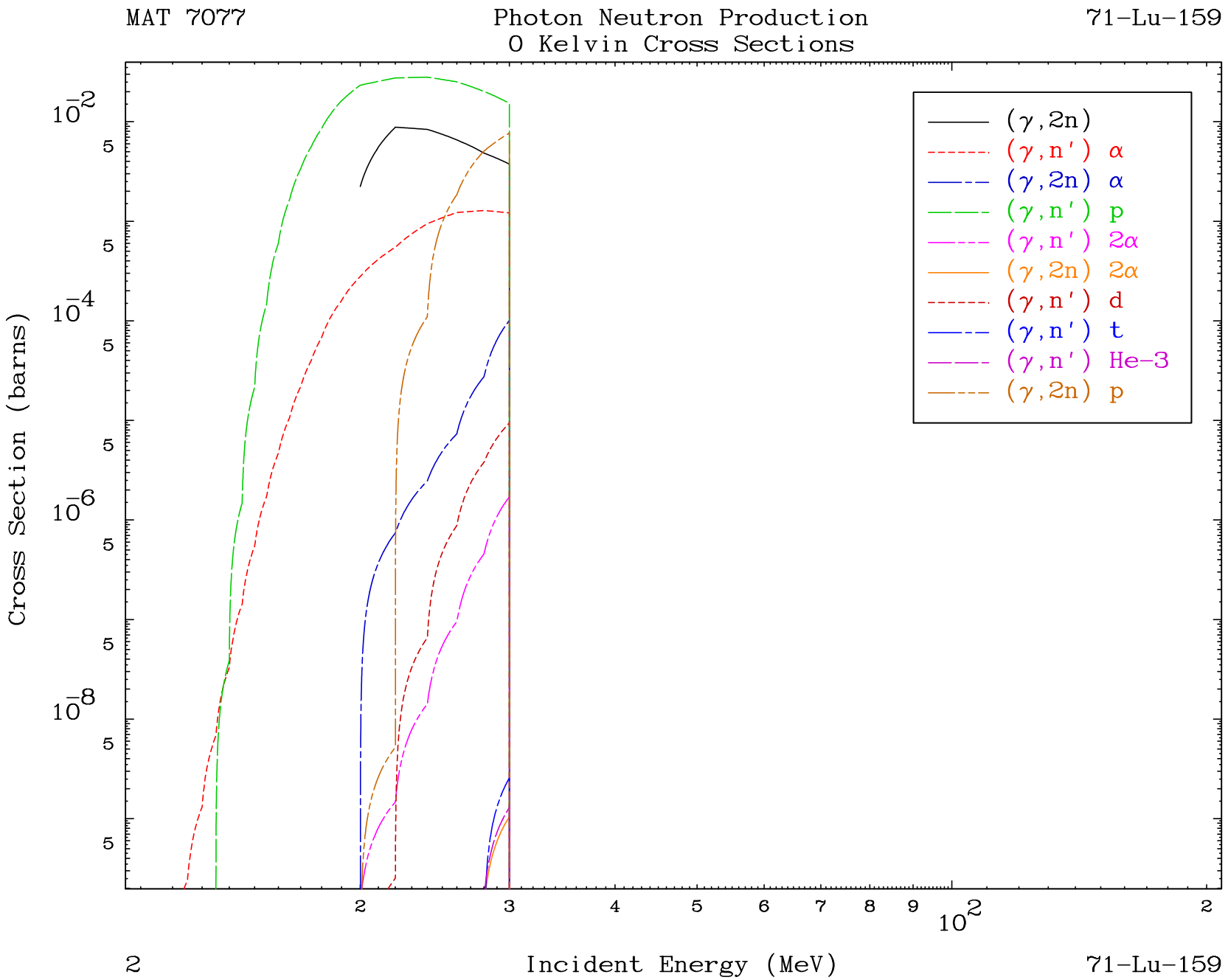
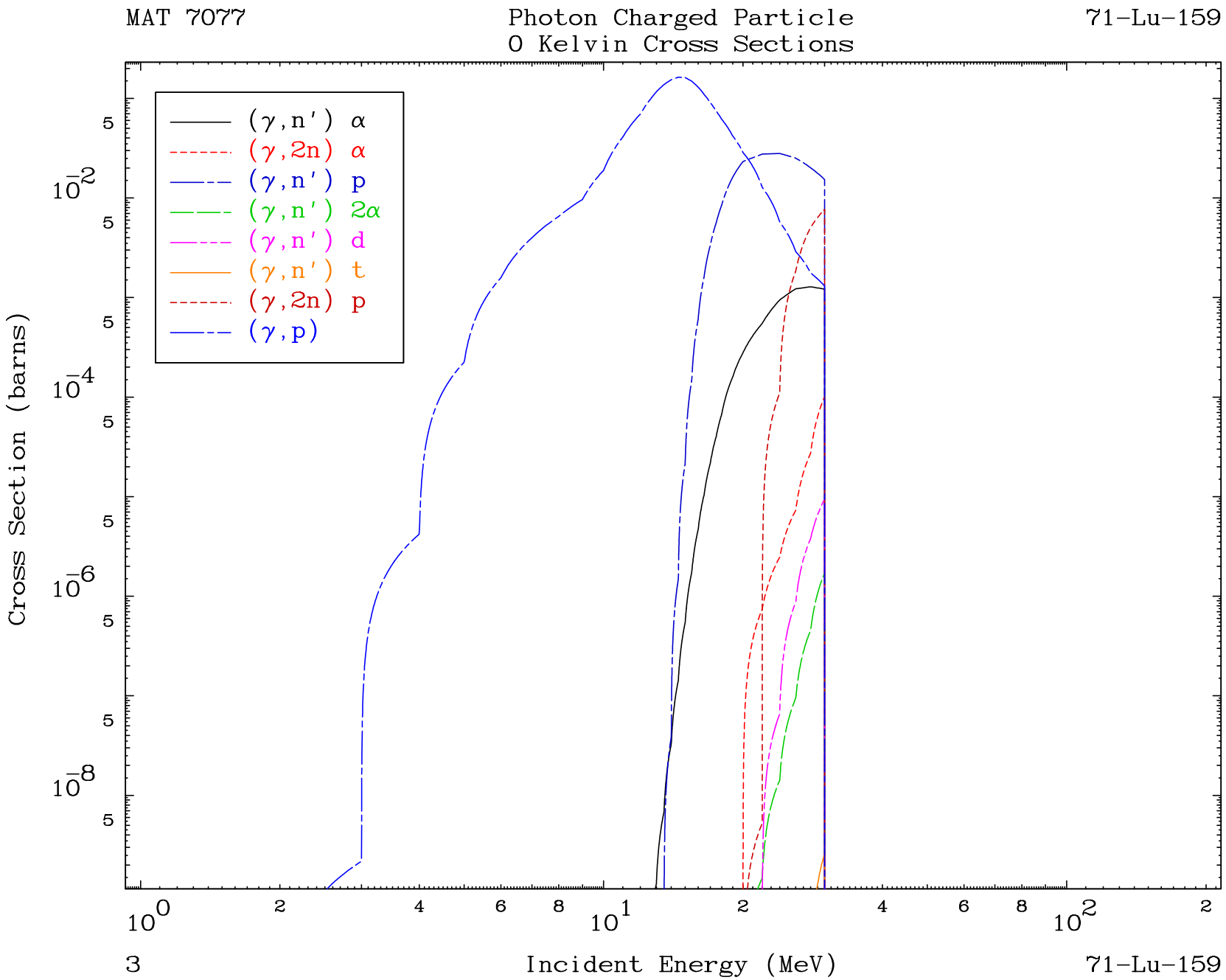
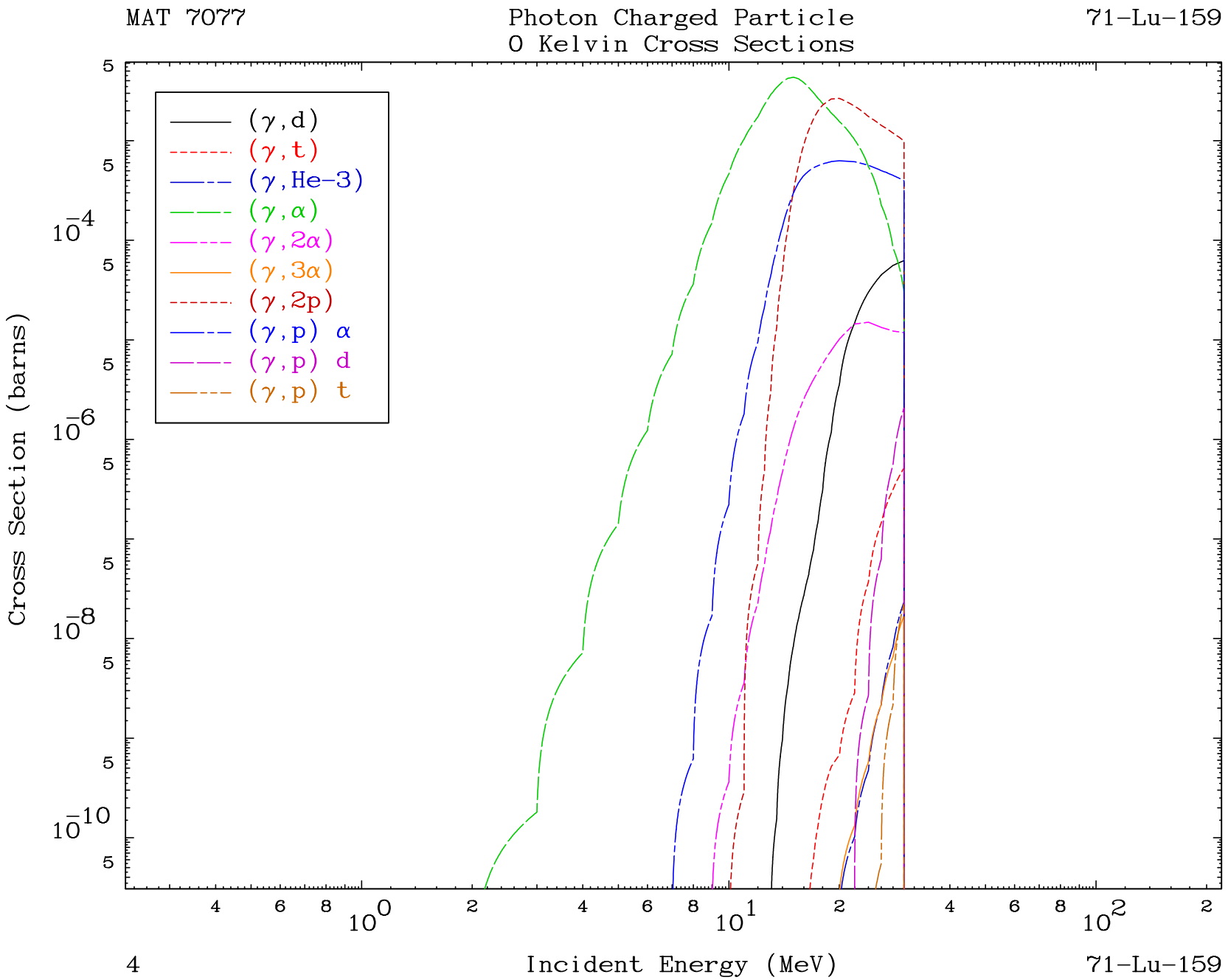
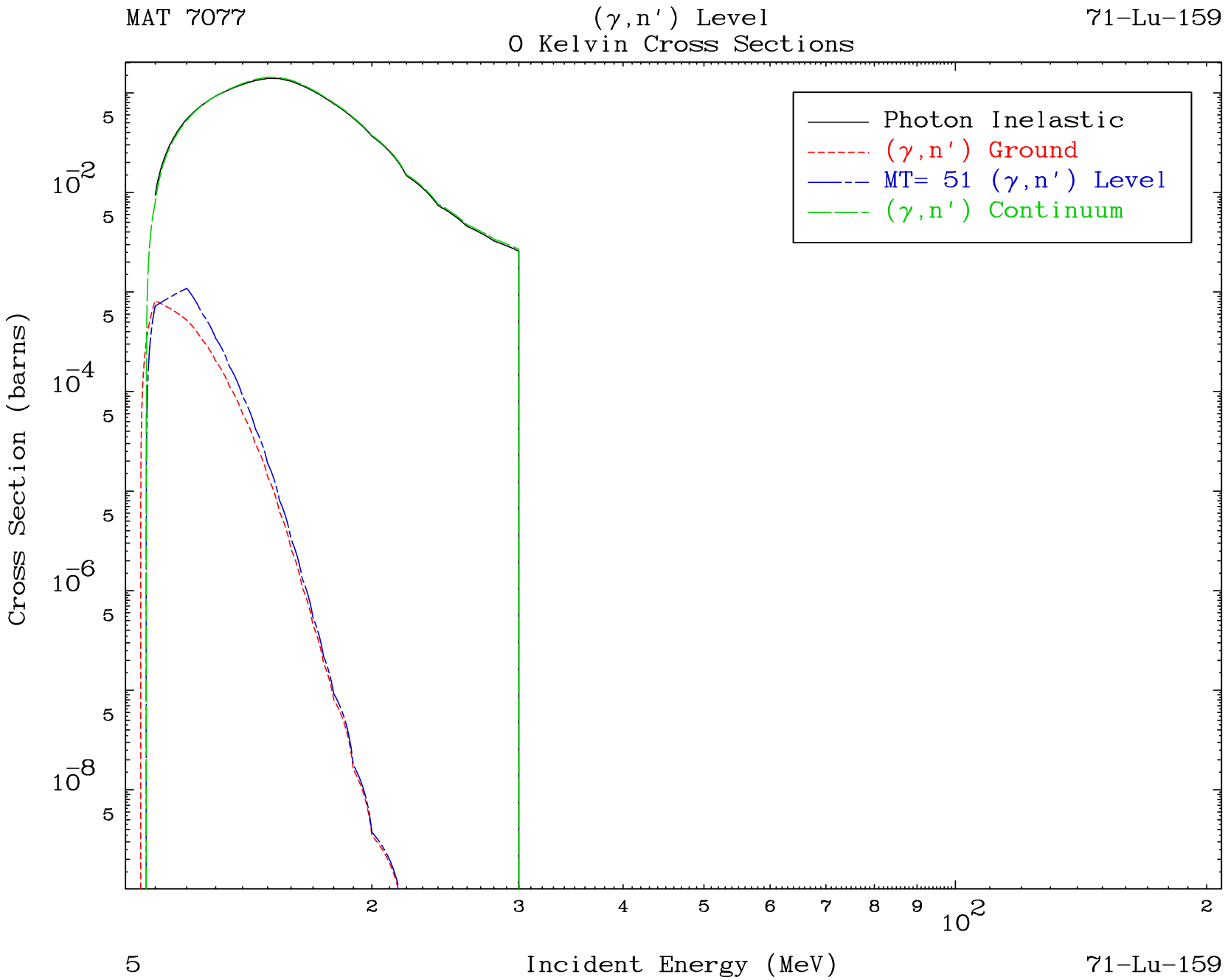
Press Mouse Button to Start

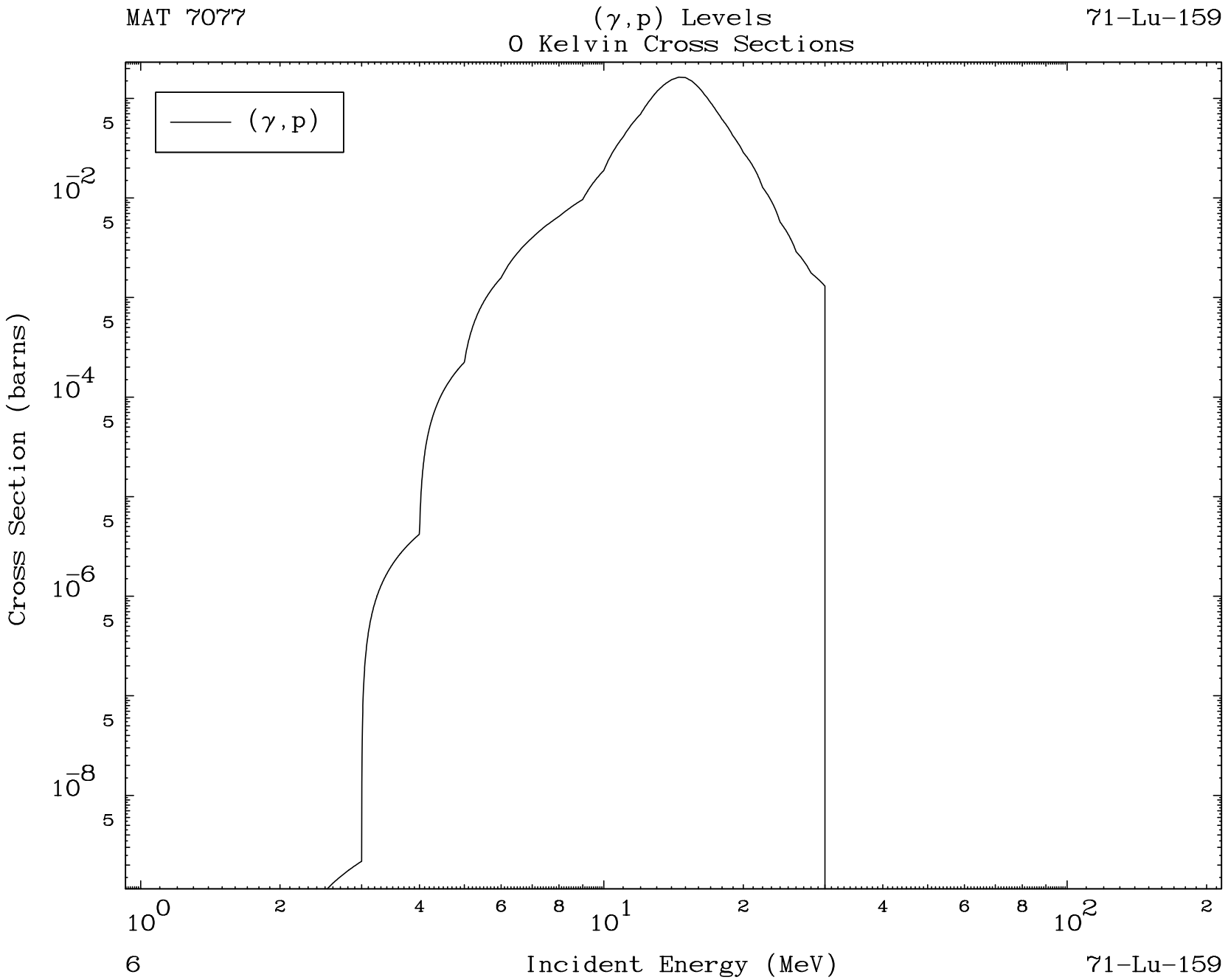

MAT 7077
Photon Major
71-Lu-159
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
71-Lu-159
1

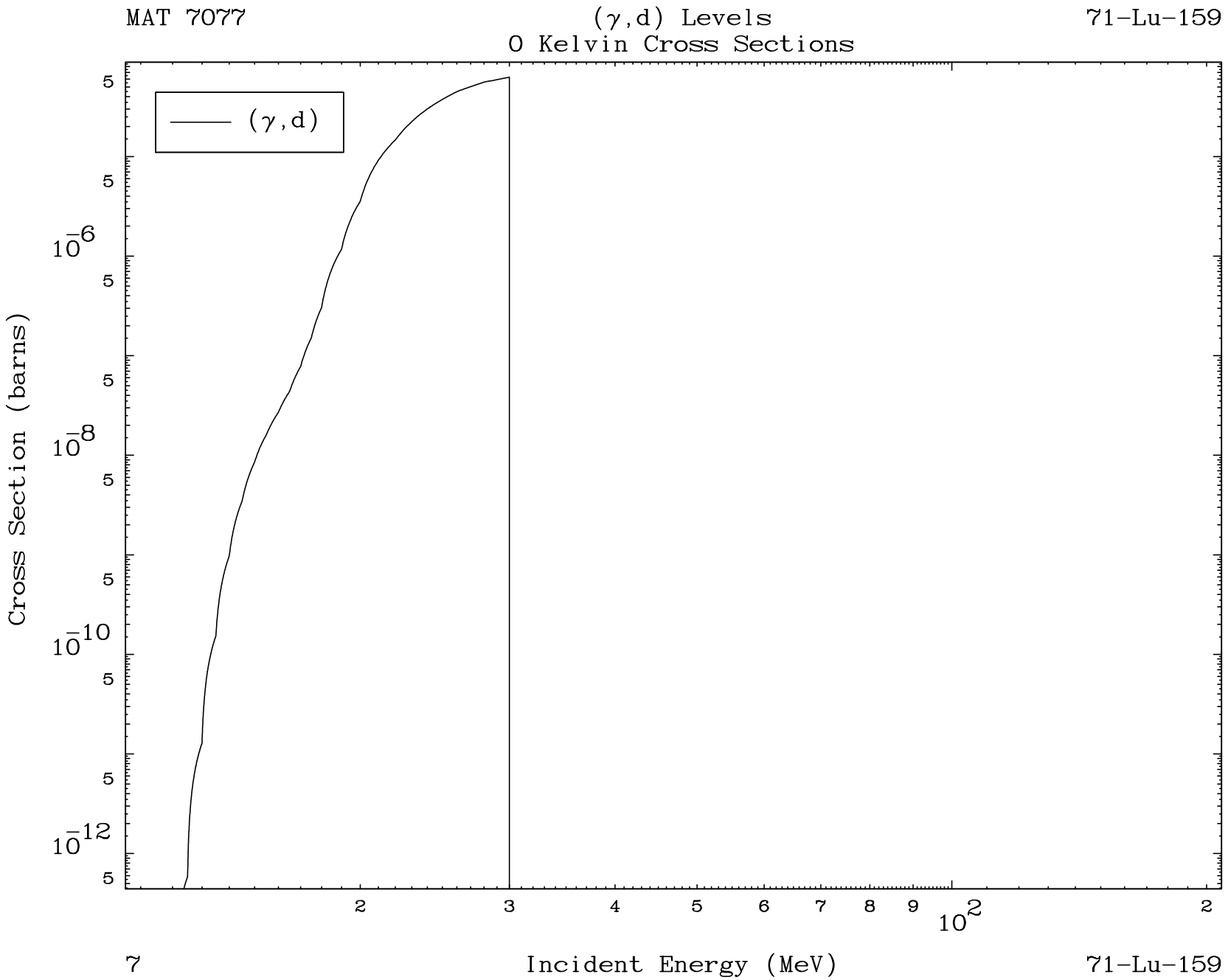

MAT 7077
Photon Neutron Production
0 Kelvin Cross Sections
71-Lu-159
Cross Section (barns)
10-2
10-4
10-6
10-8
(γ,2n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,2n) 2α
(γ,n') d
(γ,n') t
(γ,n') He-3
(γ,2n) p
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
71-Lu-159

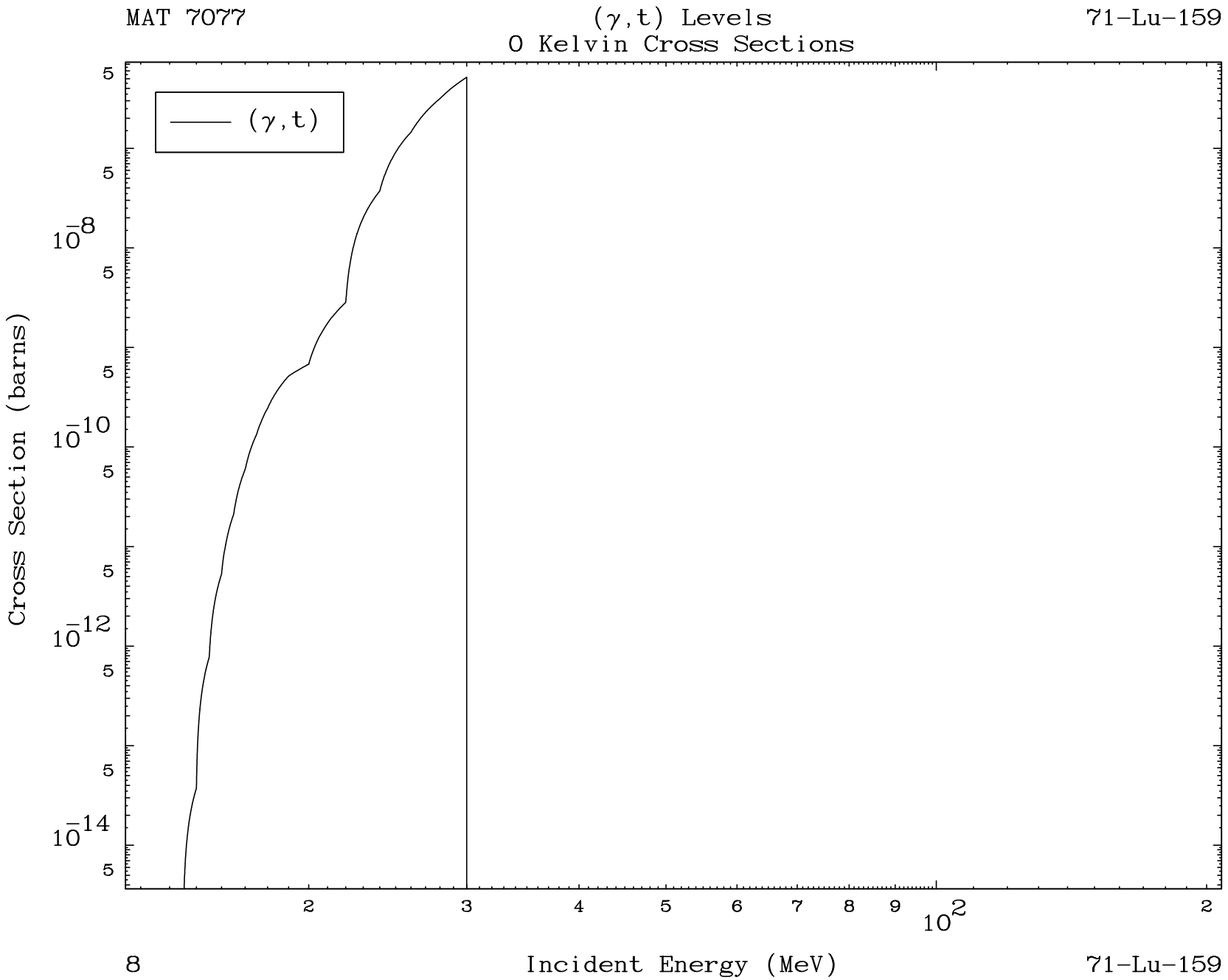

MAT 7077
Photon Charged Particle
0 Kelvin Cross Sections
71-Lu-159
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
71-Lu-159

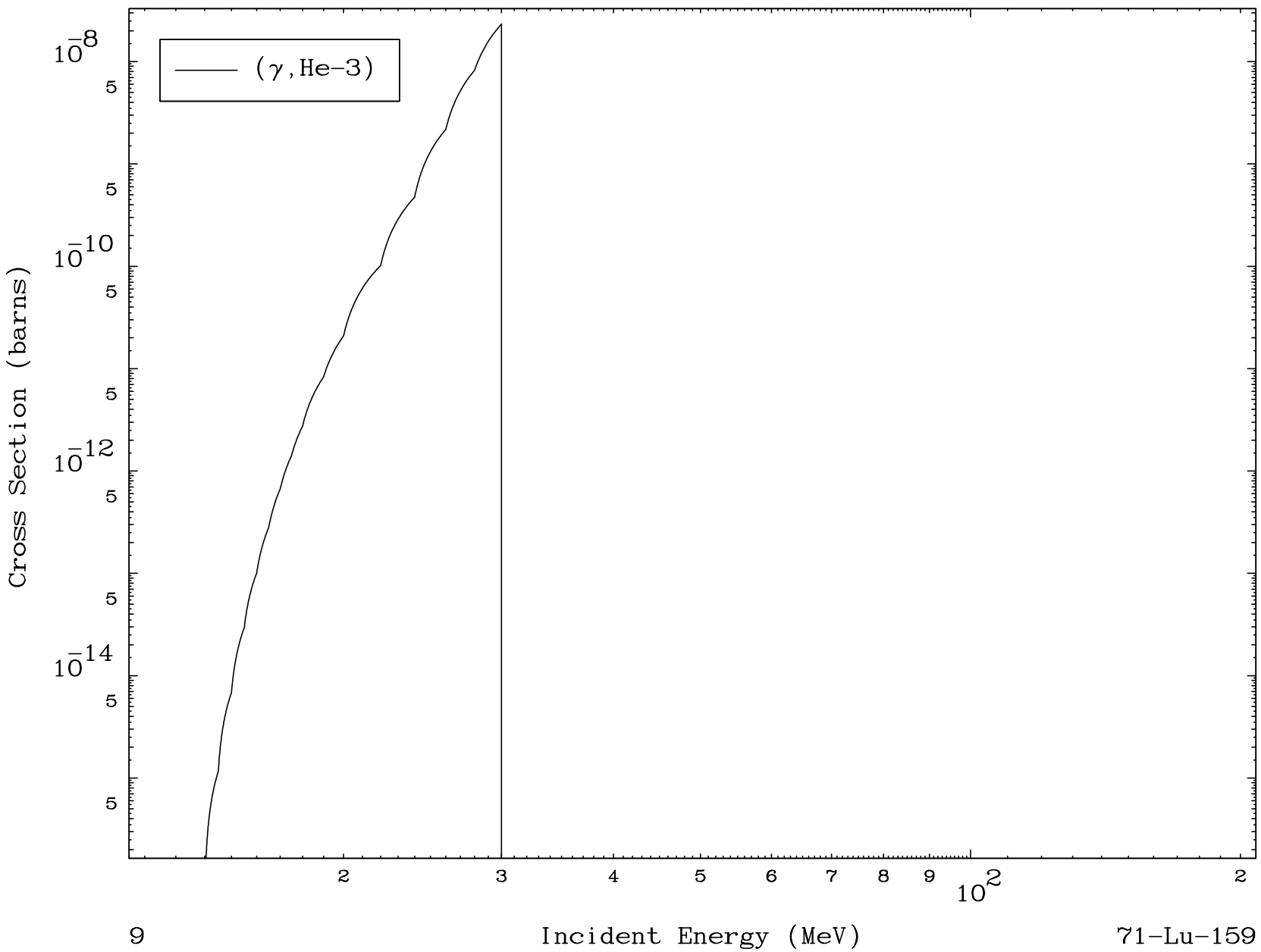

MAT 7077
Photon Charged Particle
0 Kelvin Cross Sections
71-Lu-159
(γ,d)
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,3α)
(γ,2p)
(γ,p) α
(γ,p) d
(γ,p) t
Cross Section (barns)
Incident Energy (MeV)
4
71-Lu-159

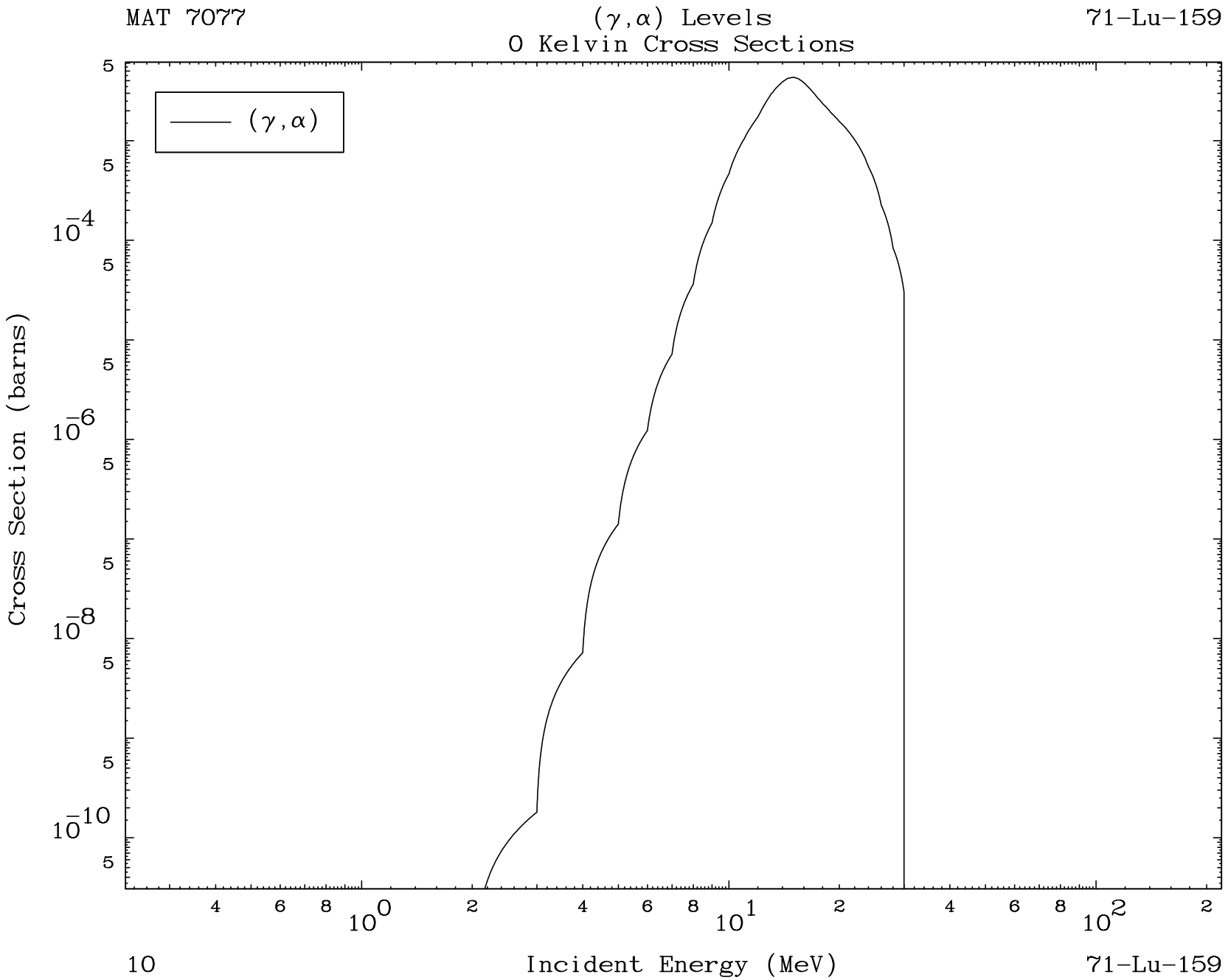

MAT 7077
(γ,n') Level
71-Lu-159
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10+2
Incident Energy (MeV)
71-Lu-159

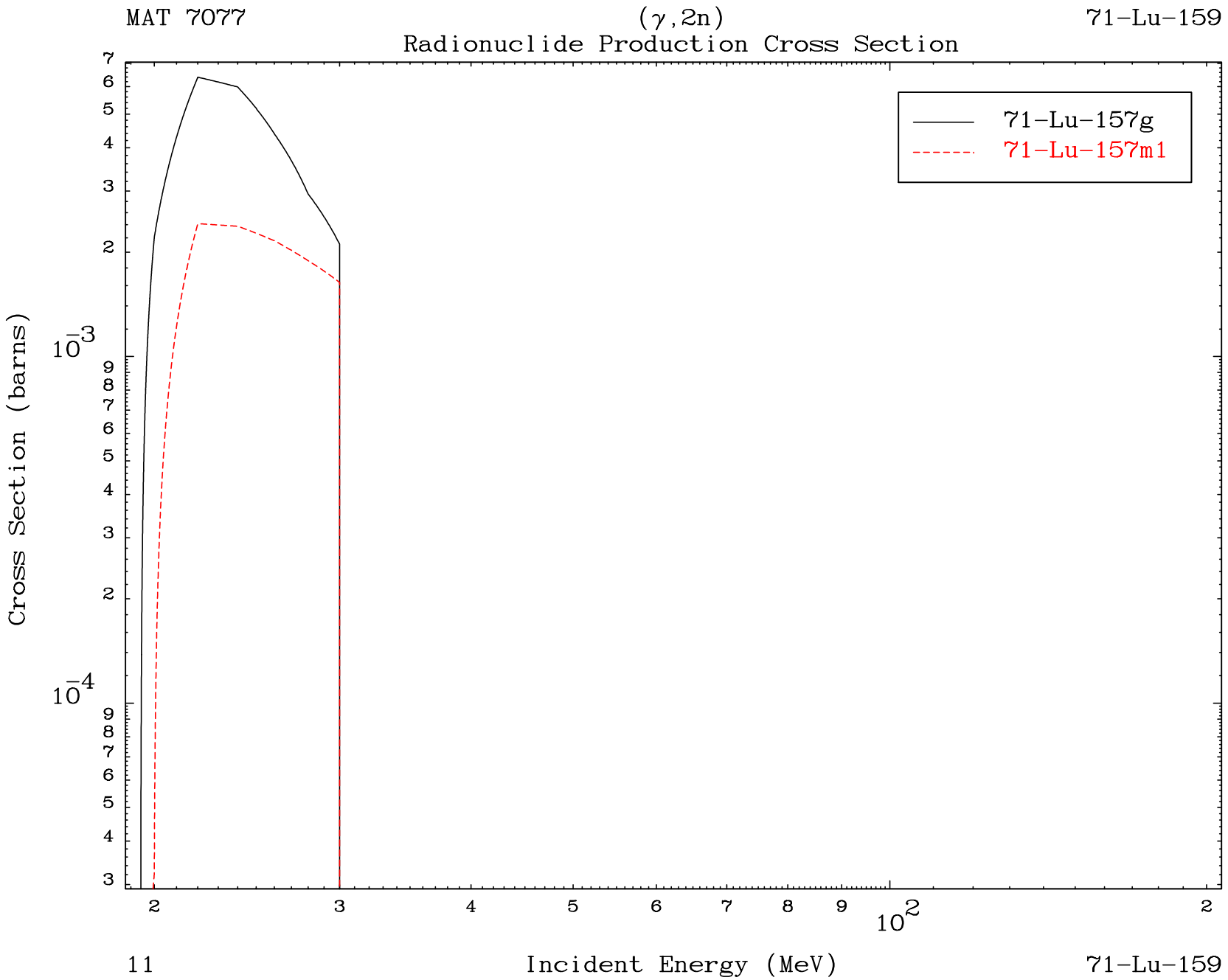

MAT 7077
(γ,p) Levels
71-Lu-159
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
2
4
6
8
101
102
Incident Energy (MeV)
6
71-Lu-159

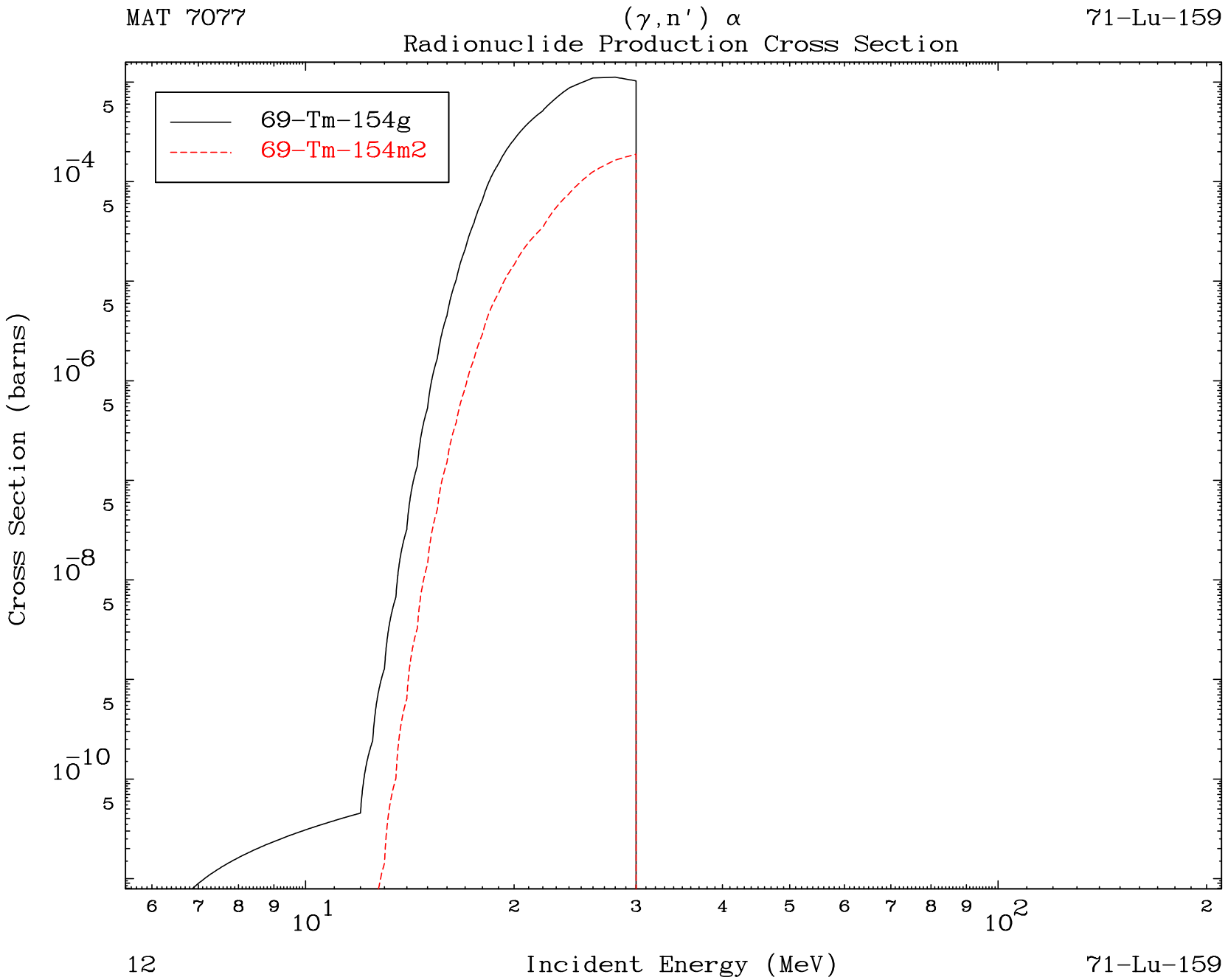

MAT 7077
(γ,d) Levels
71-Lu-159
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
7
Incident Energy (MeV)
71-Lu-159

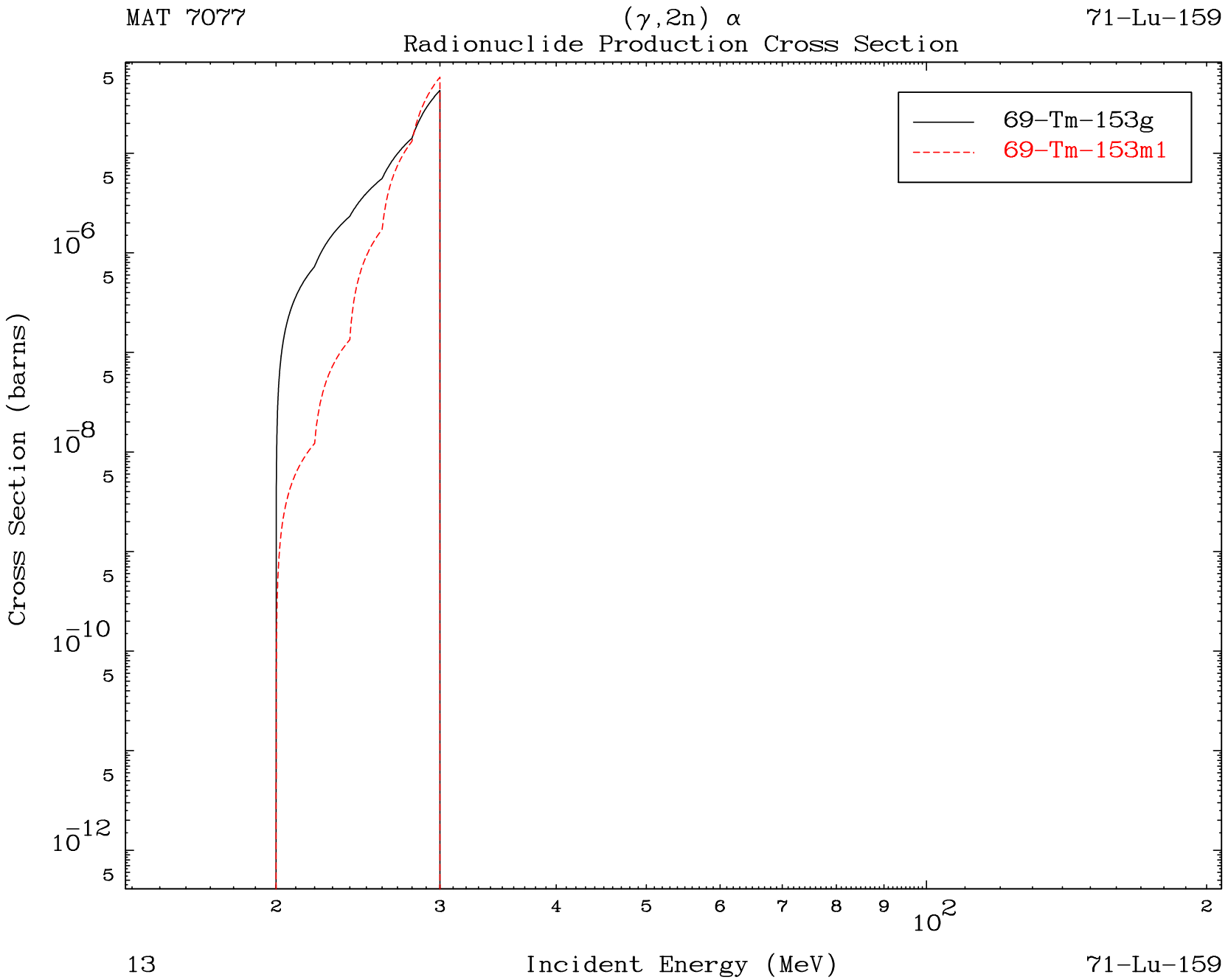

MAT 7077
(γ,t) Levels
71-Lu-159
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
8
71-Lu-159

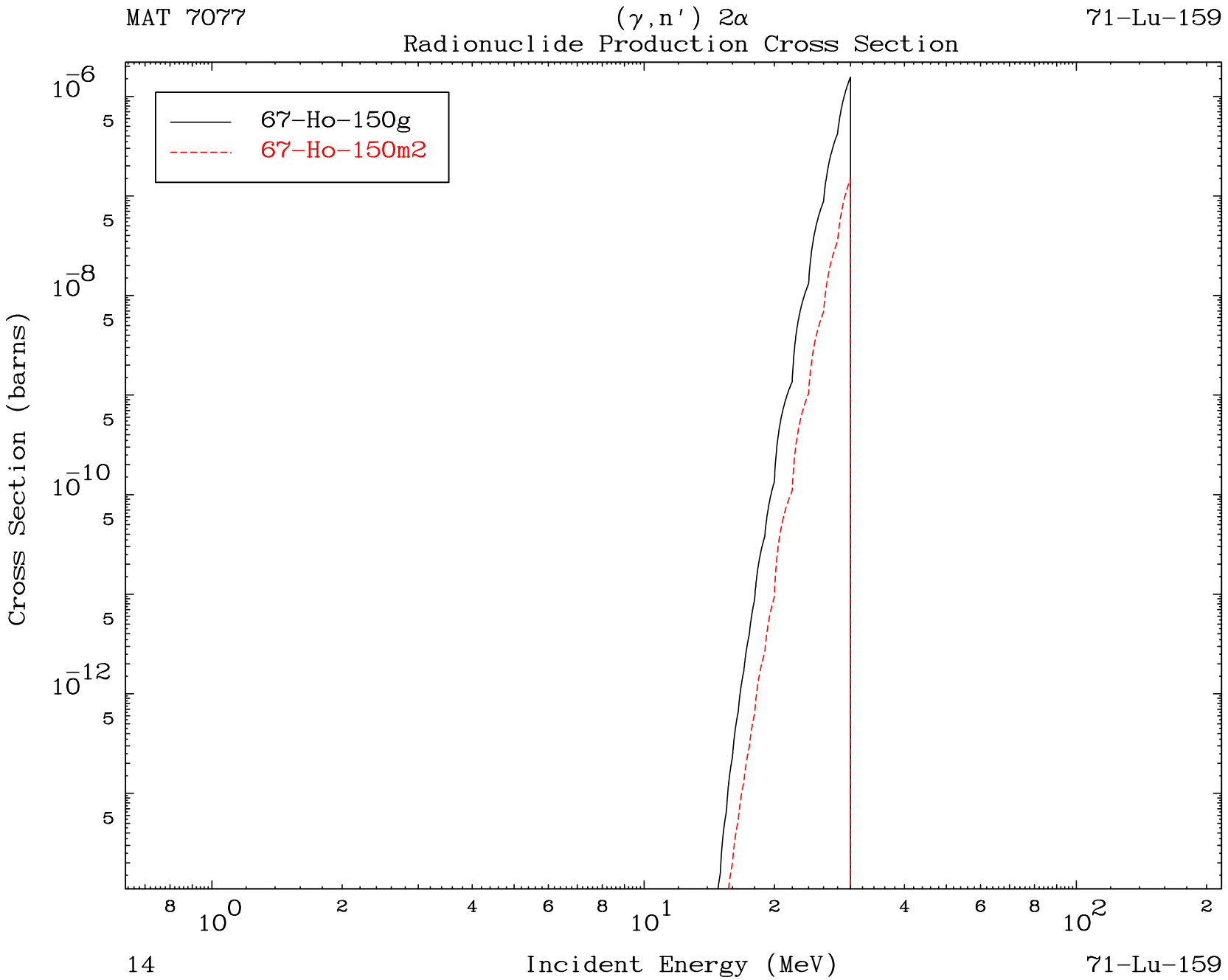

0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10^-8
5
10^-10
5
10^-12
5
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

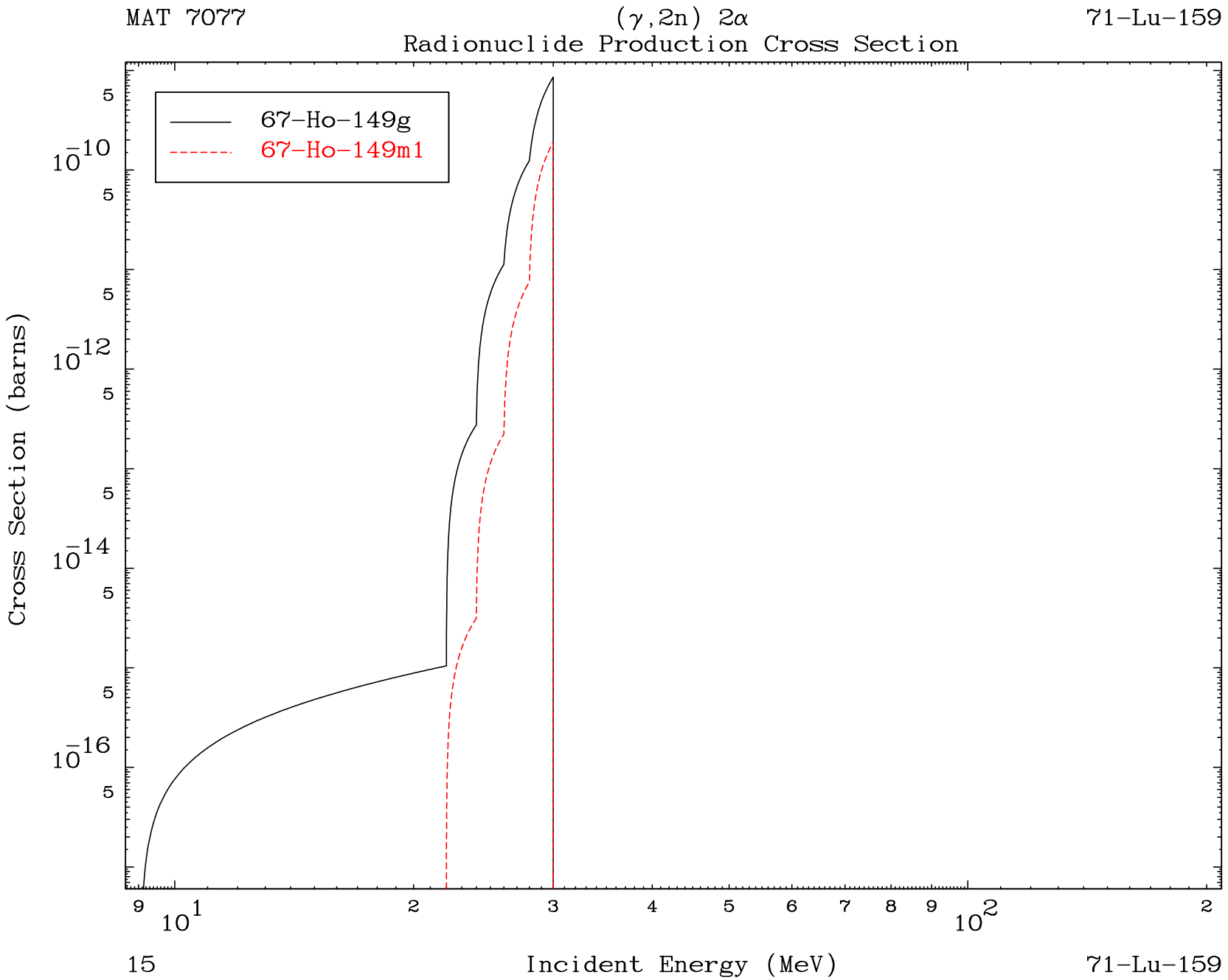

MAT 7077
(γ,α) Levels
71-Lu-159
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
10^2
Incident Energy (MeV)
71-Lu-159

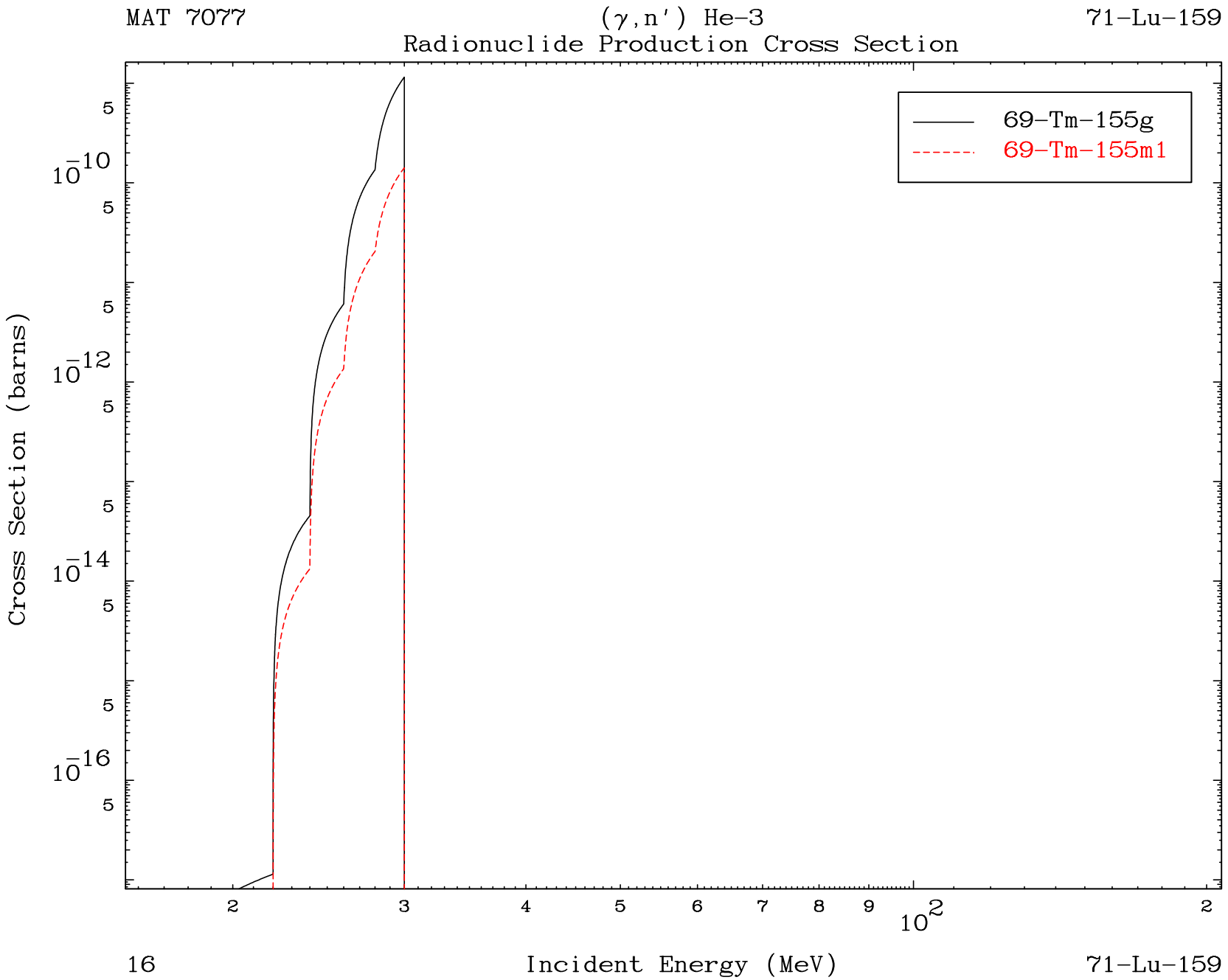

MAT 7077
(γ,2n)
71-Lu-159
Radionuclide Production Cross Section
71-Lu-157g
71-Lu-157m1
Cross Section (barns)
10-3
10-4
Incident Energy (MeV)
10^2
11
71-Lu-159

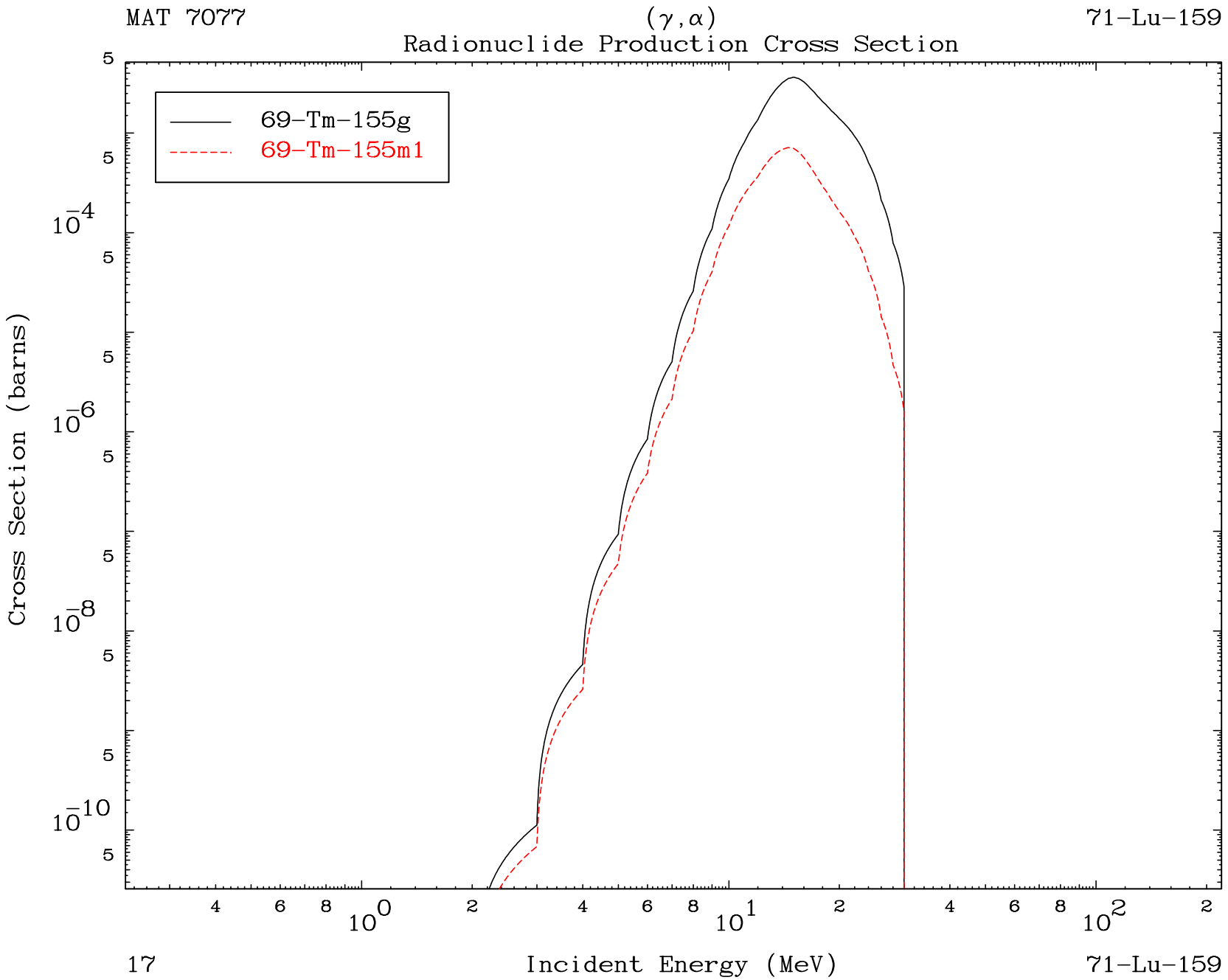

MAT 7077
(γ,n') α
71-Lu-159
Radionuclide Production Cross Section
69-Tm-154g
69-Tm-154m2
Cross Section (barns)
10-4
10-6
10-8
10-10
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
12
71-Lu-159

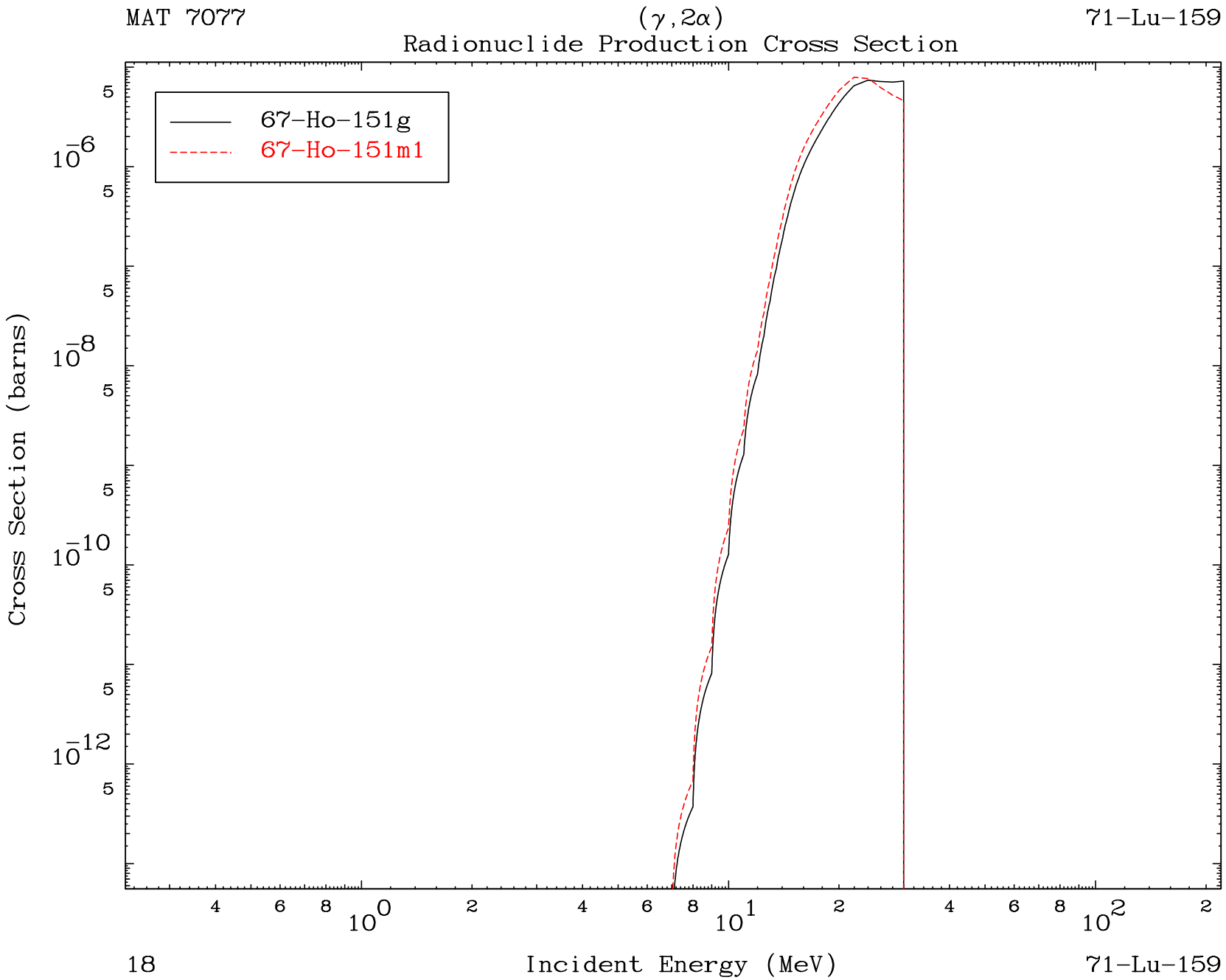

MAT 7077
(γ,2n) α
71-Lu-159
Radionuclide Production Cross Section
69-Tm-153g
69-Tm-153m1
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
71-Lu-159

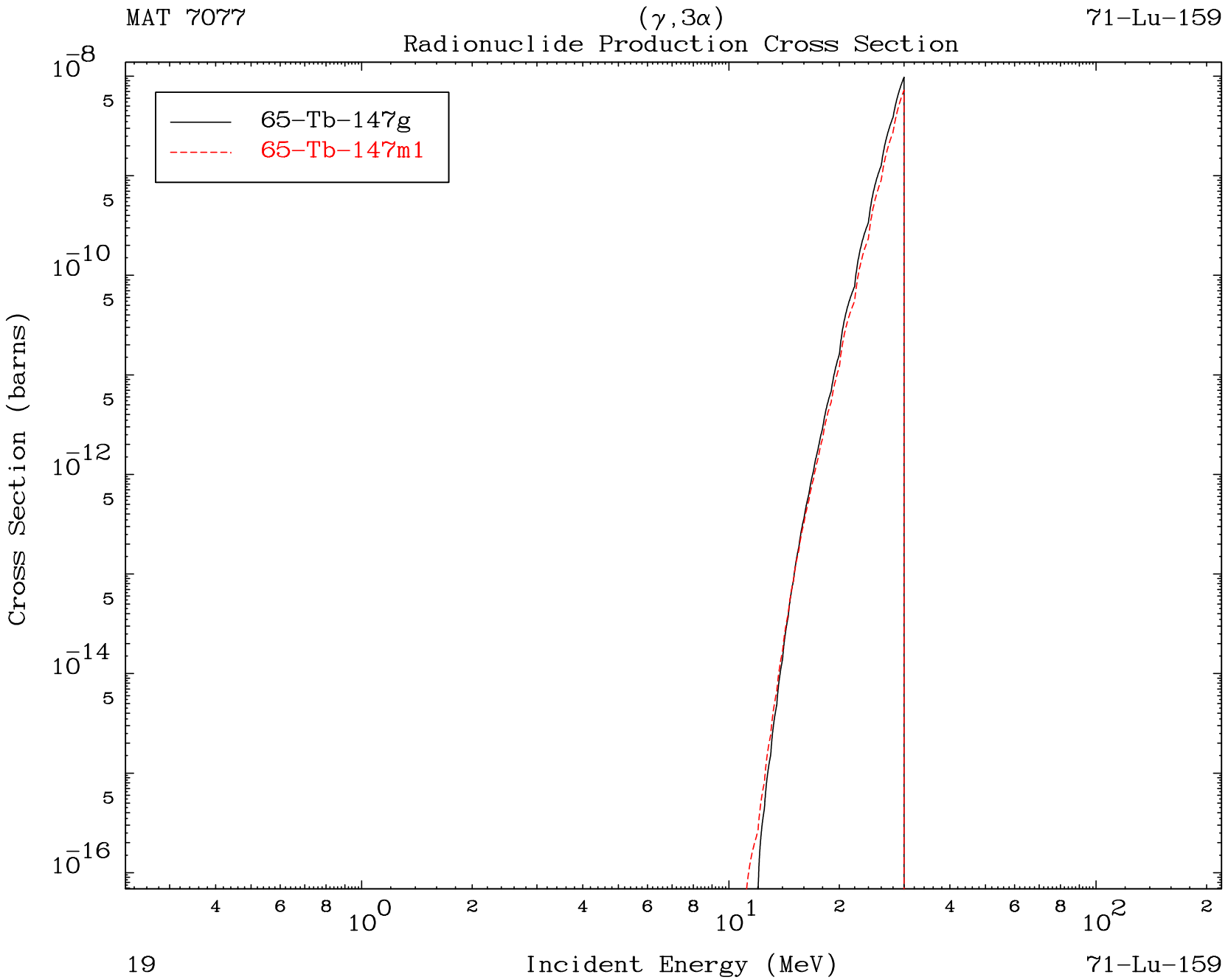

MAT 7077
(γ,n') 2α
71-Lu-159
Radionuclide Production Cross Section
67-Ho-150g
67-Ho-150m2
Cross Section (barns)
Incident Energy (MeV)
14
71-Lu-159

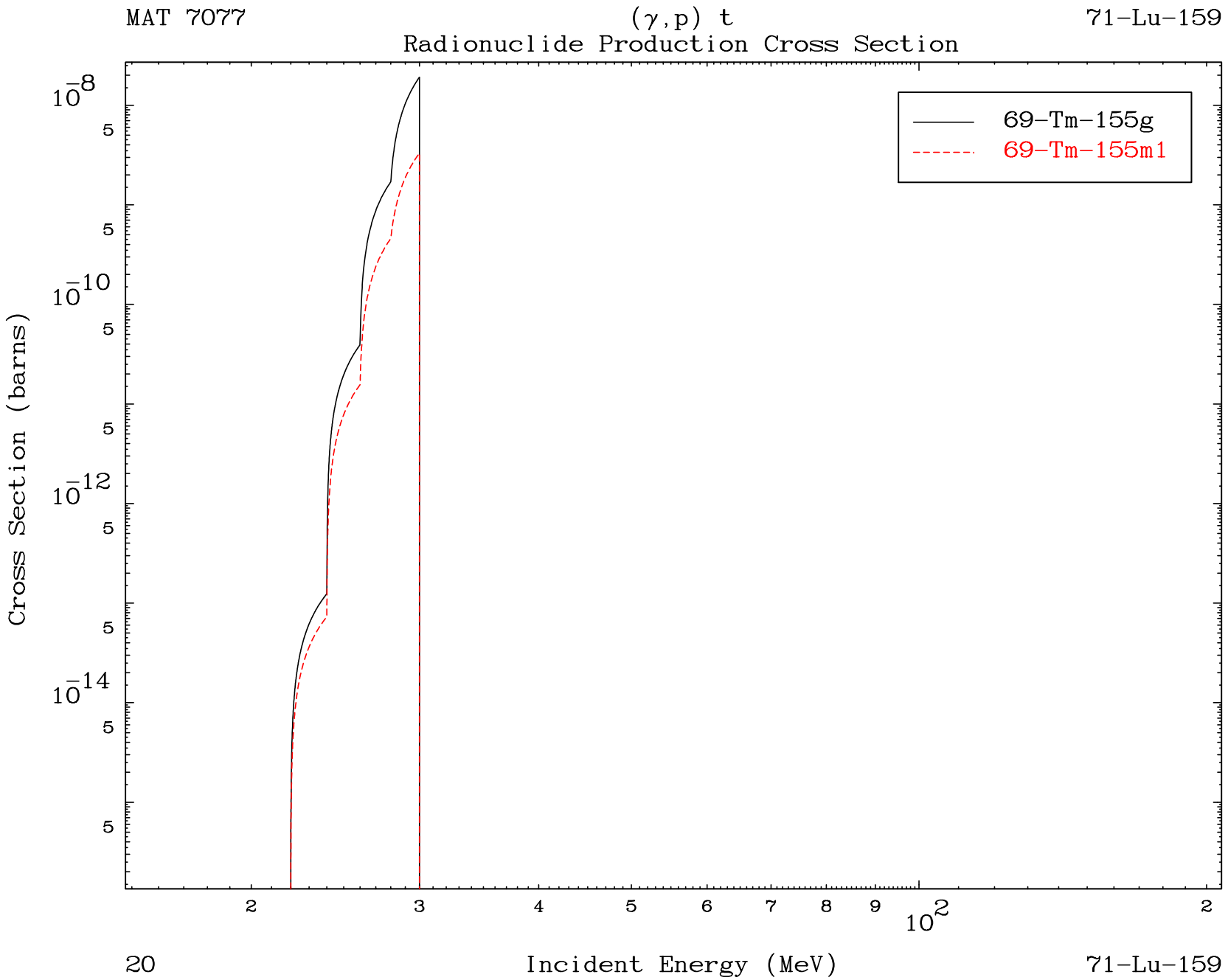

MAT 7077
(γ,2n) 2α
71-Lu-159
Radionuclide Production Cross Section
67-Ho-149g
67-Ho-149m1
Cross Section (barns)
Incident Energy (MeV)
15
71-Lu-159


MAT 7077
(γ,n') He-3
71-Lu-159
Radionuclide Production Cross Section
69-Tm-155g
69-Tm-155m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
16
Incident Energy (MeV)
71-Lu-159


MAT 7077
(γ,α)
71-Lu-159
Radionuclide Production Cross Section
69-Tm-155g
69-Tm-155m1
Cross Section (barns)
Incident Energy (MeV)
17
71-Lu-159


MAT 7077
(γ,2α)
71-Lu-159
Radionuclide Production Cross Section
67-Ho-151g
67-Ho-151m1
Cross Section (barns)
Incident Energy (MeV)
18
71-Lu-159


MAT 7077
(γ,3α)
71-Lu-159
Radionuclide Production Cross Section
65-Tb-147g
65-Tb-147m1
Cross Section (barns)
Incident Energy (MeV)
19
71-Lu-159


MAT 7077
(γ,p) t
71-Lu-159
Radionuclide Production Cross Section
69-Tm-155g
69-Tm-155m1
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)
71-Lu-159