Program EVALPLOT
(Version 2021-1)
by
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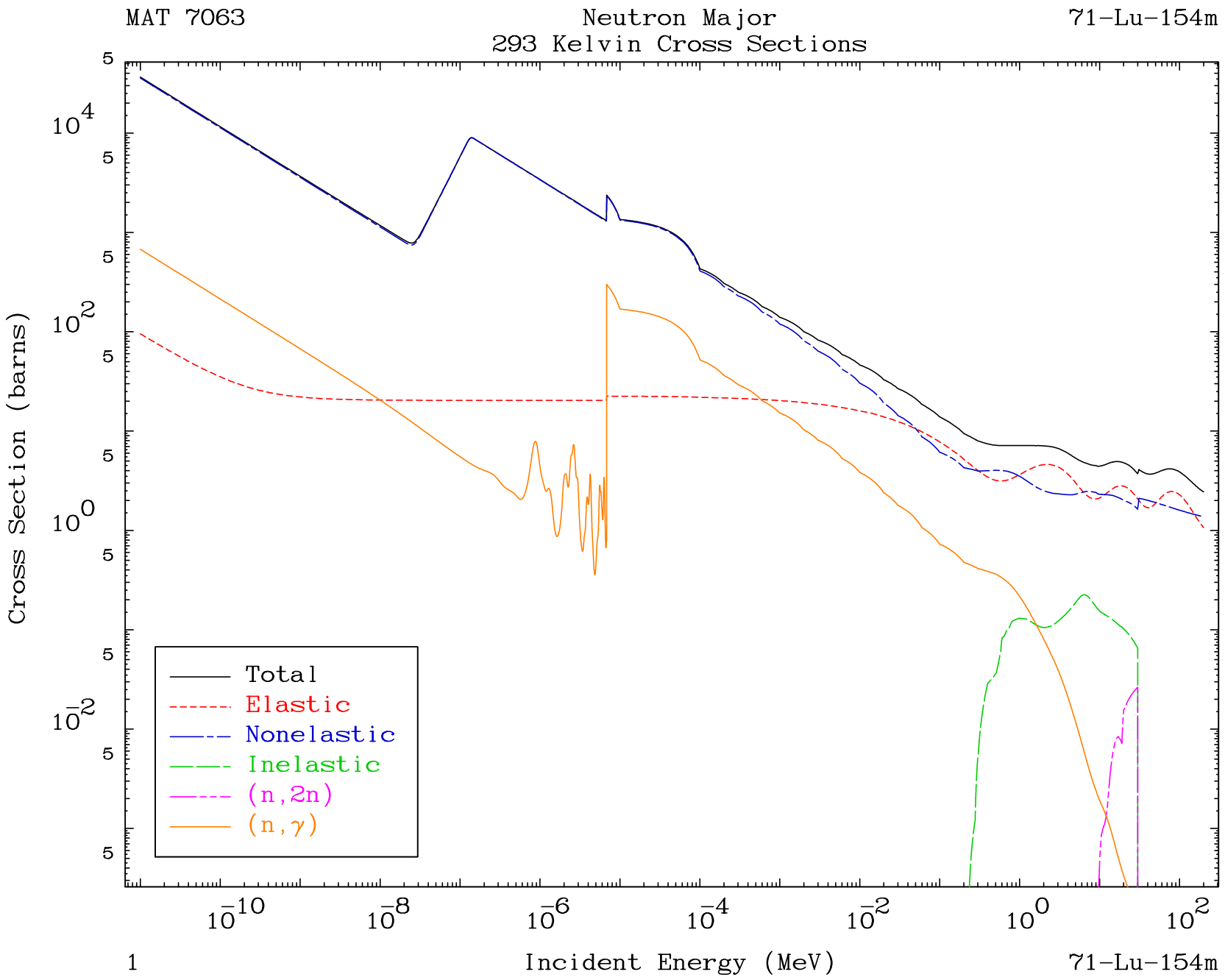
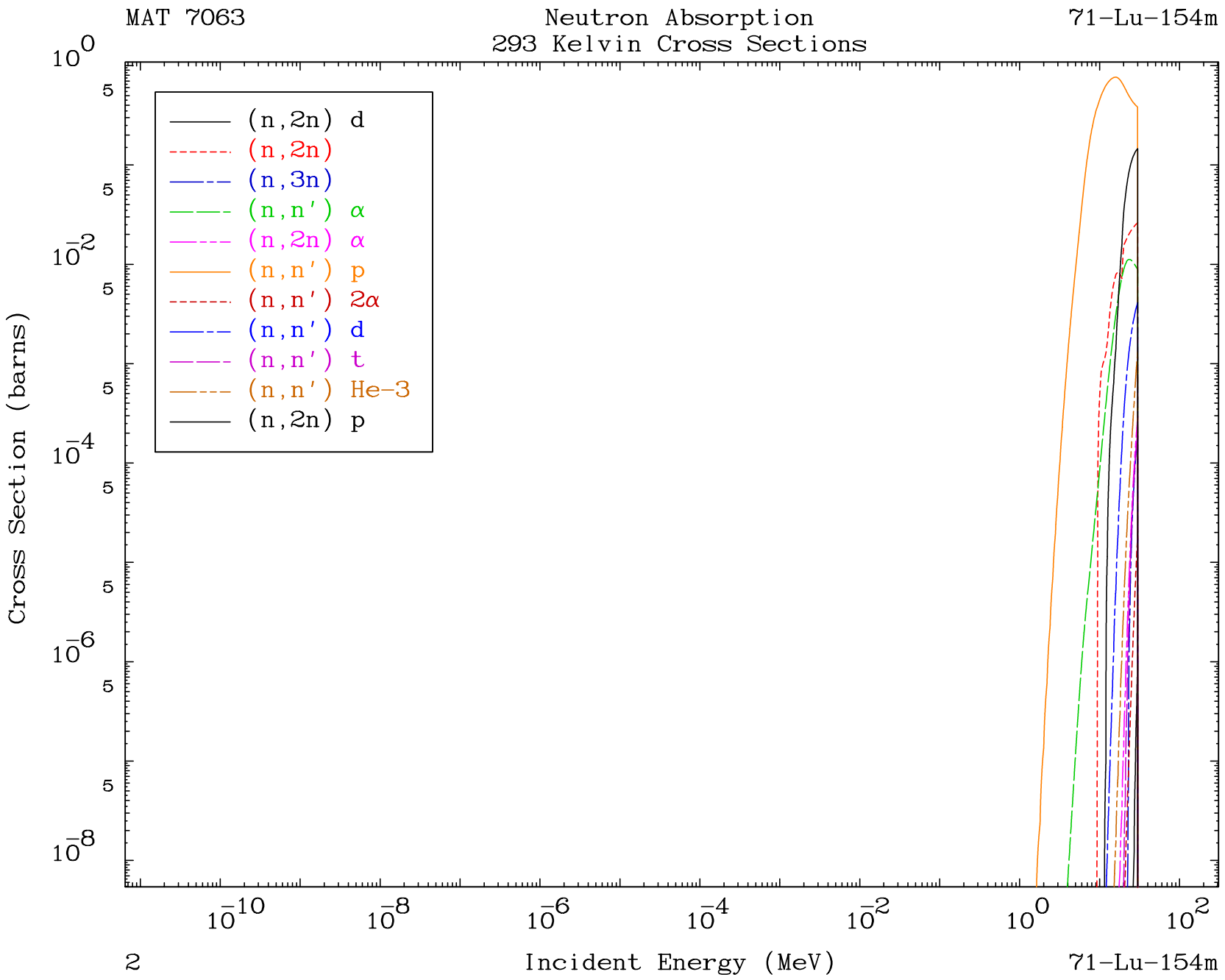
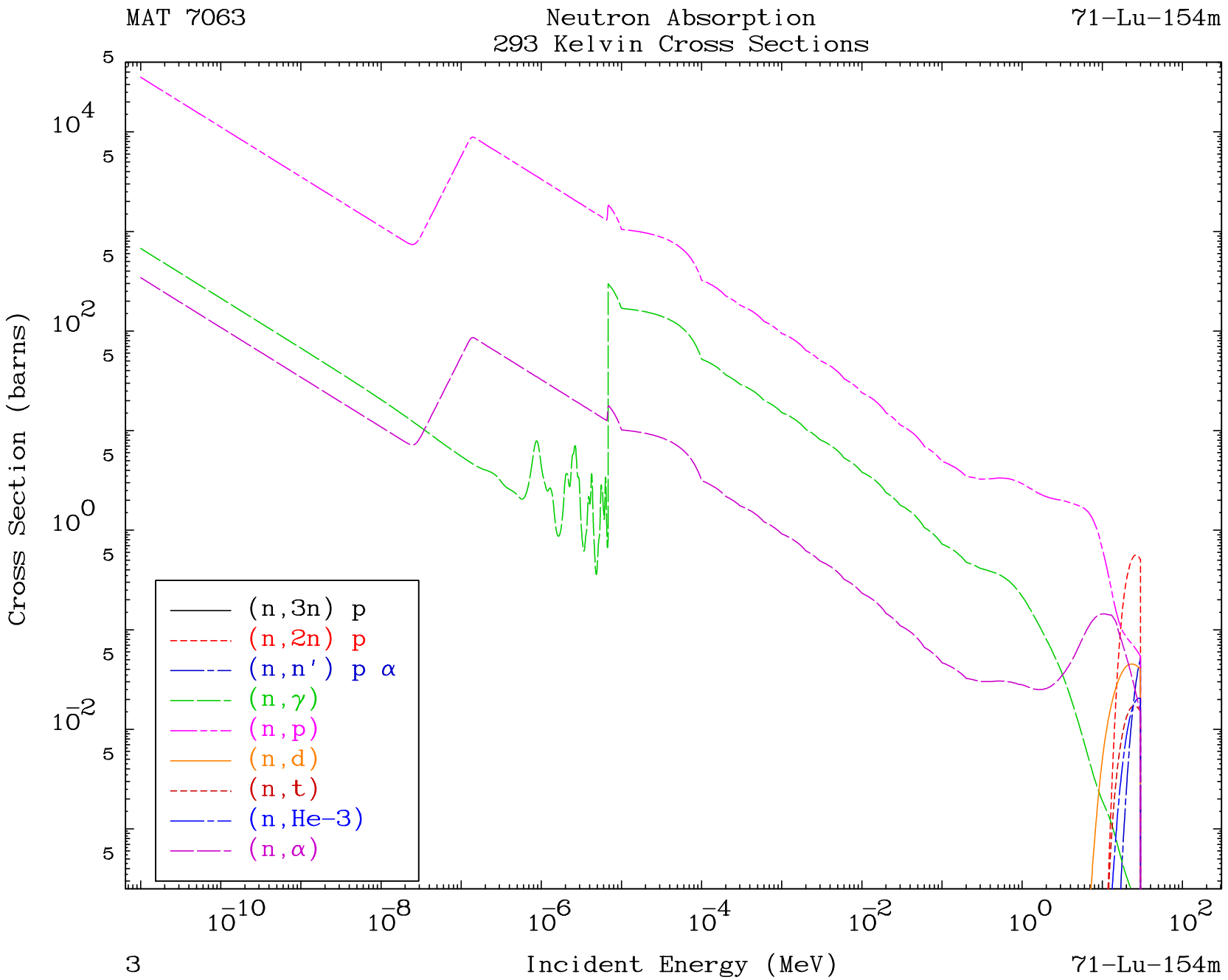
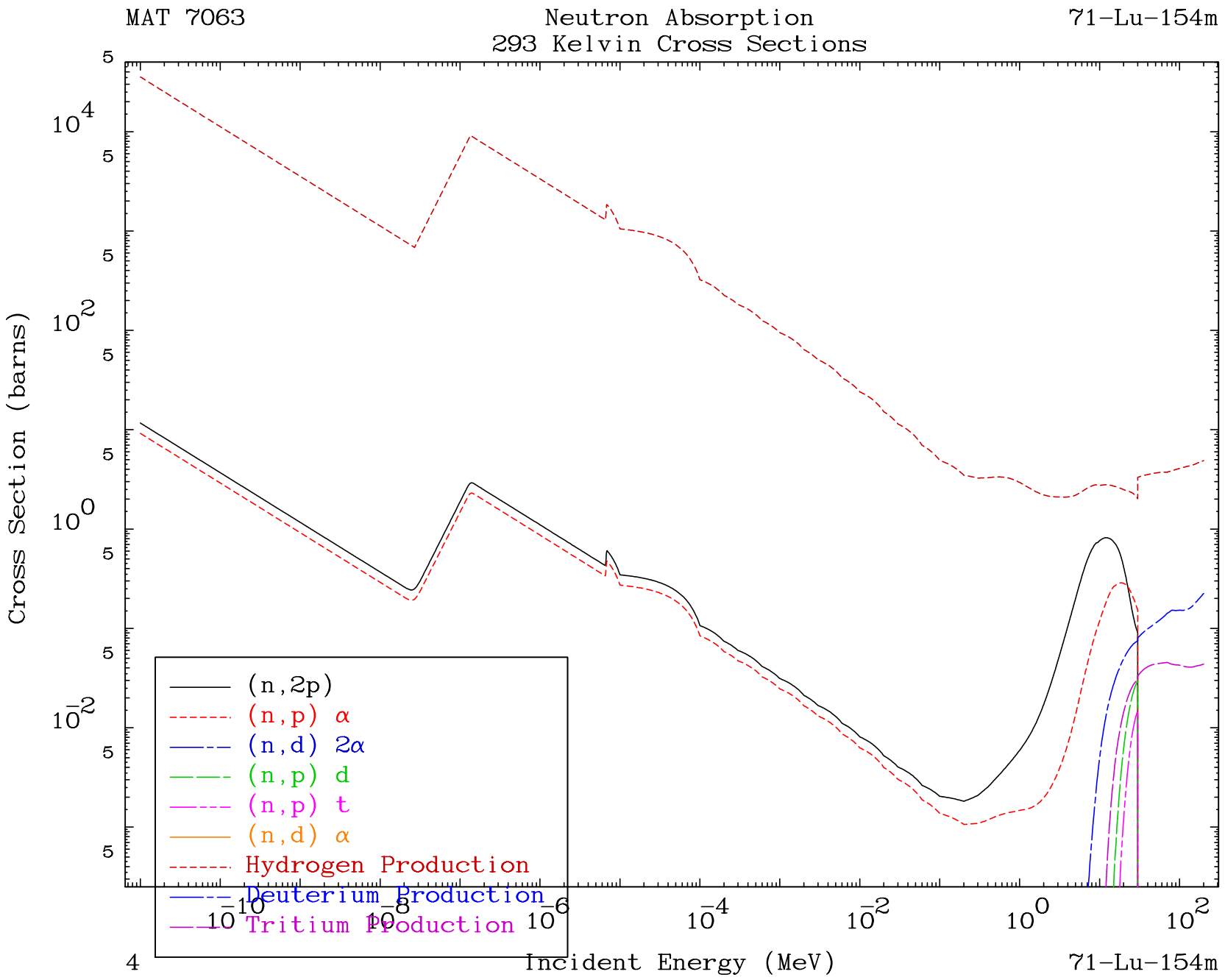
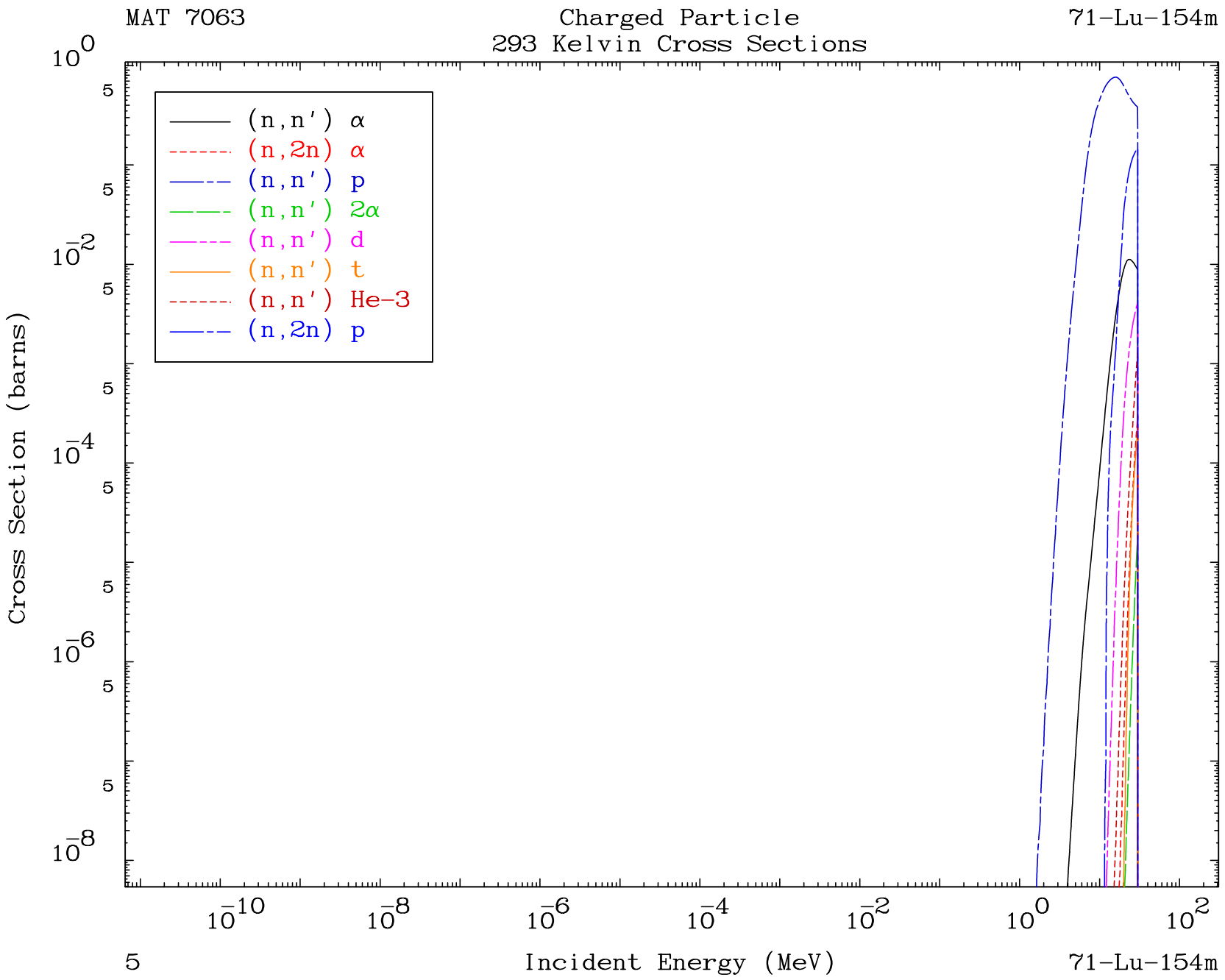
Press Mouse Button to Start

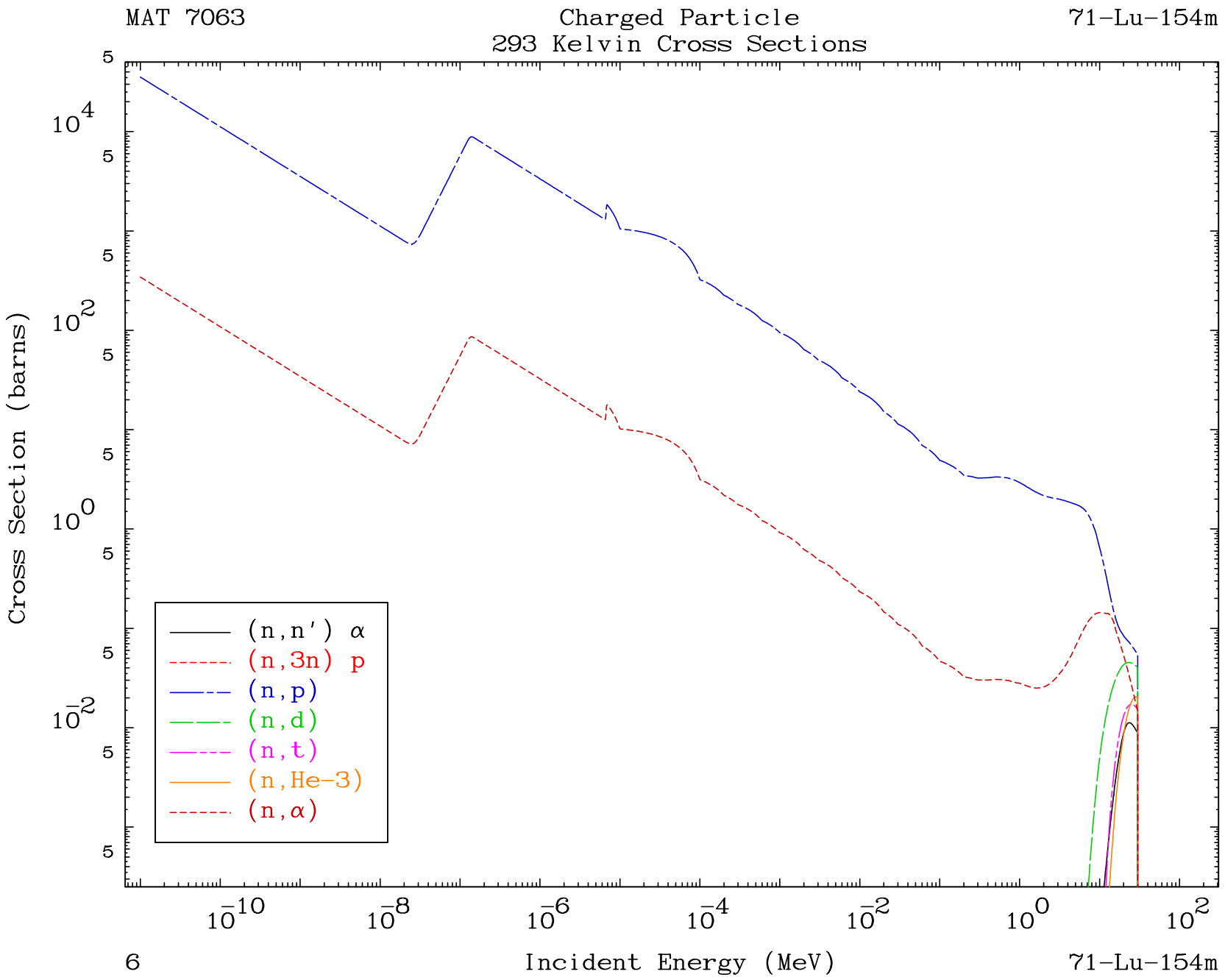

MAT 7063
Neutron Major
293 Kelvin Cross Sections
71-Lu-154m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,γ)

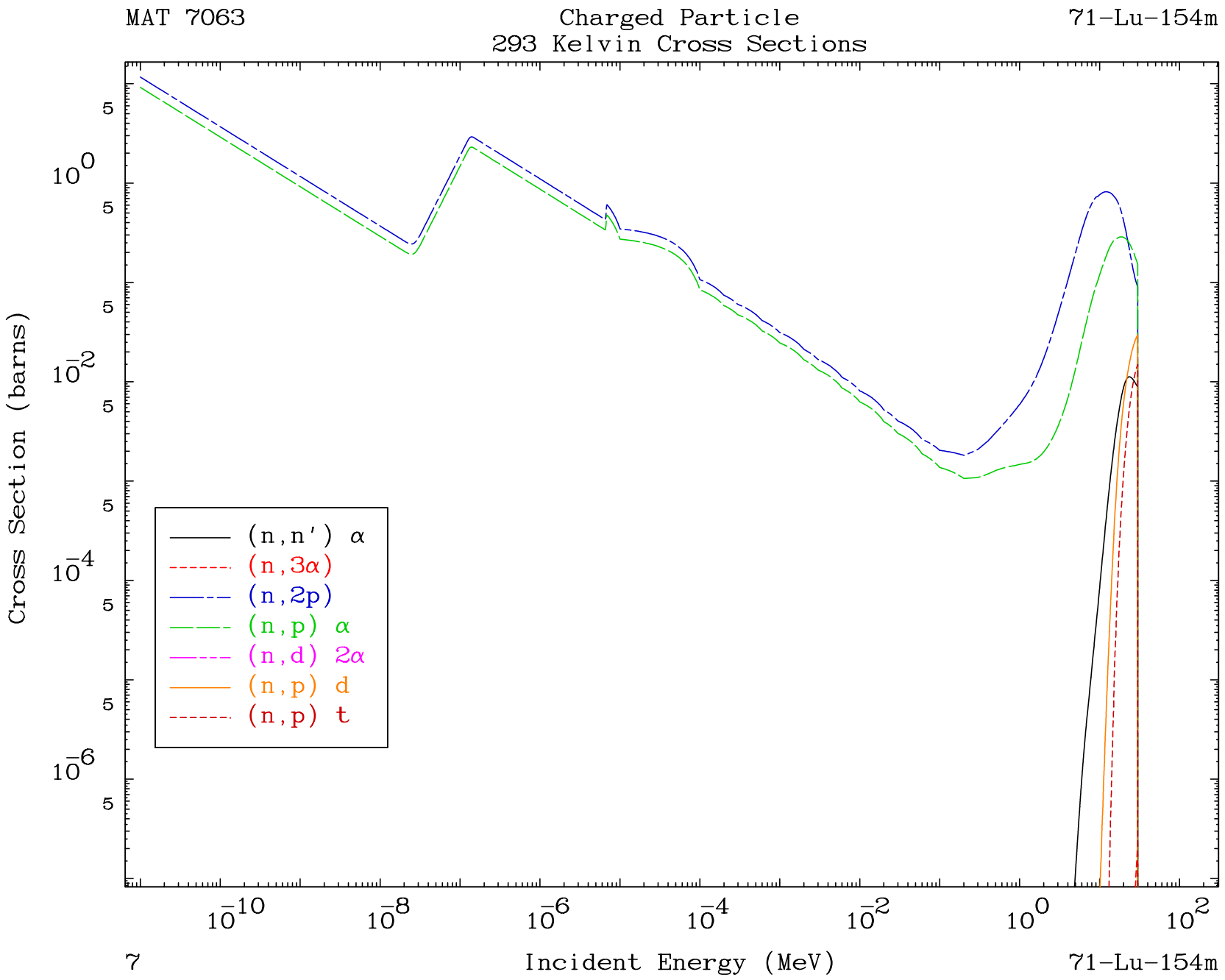

MAT 7063
Neutron Absorption
293 Kelvin Cross Sections
71-Lu-154m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
71-Lu-154m
2

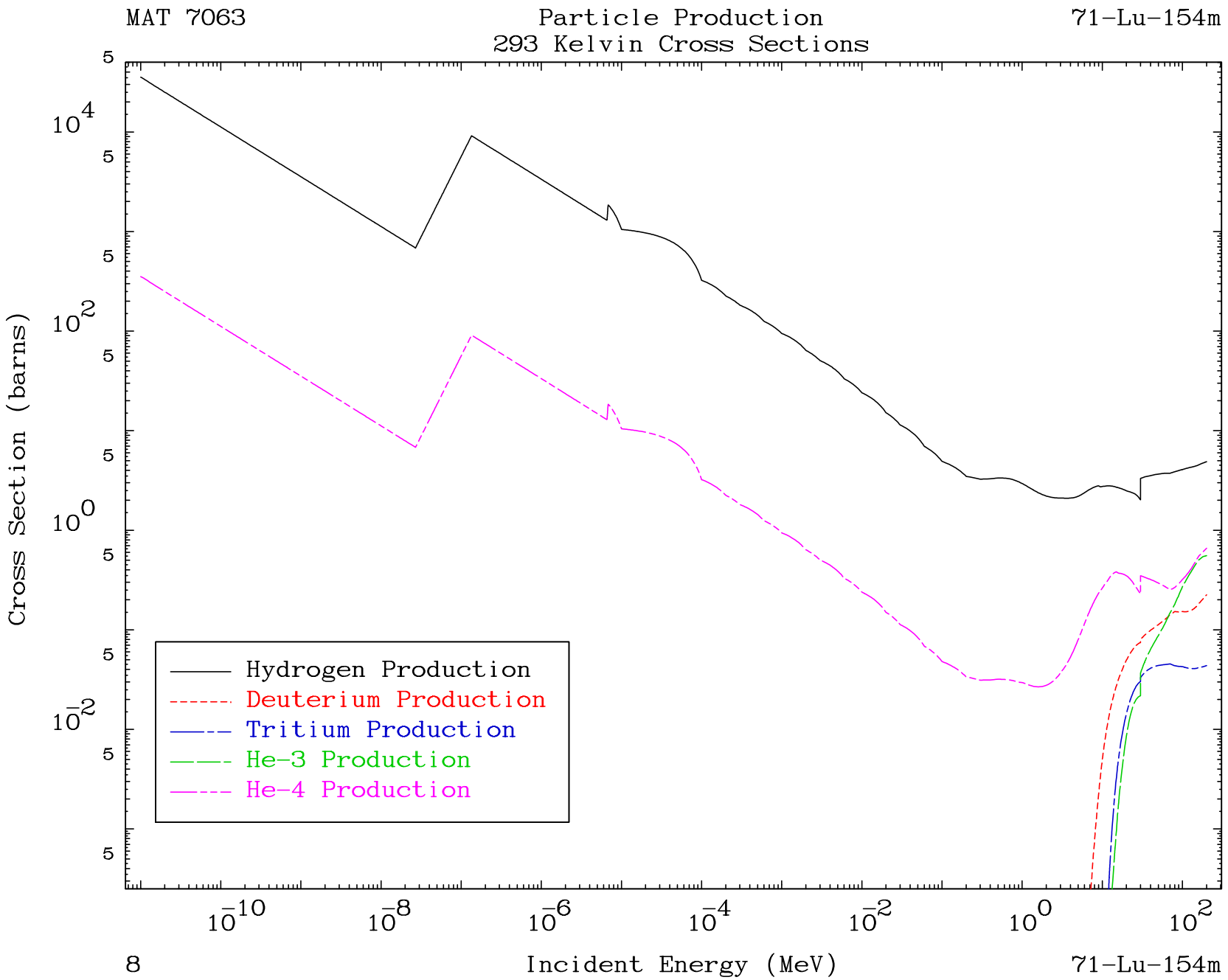

MAT 7063
Neutron Absorption
293 Kelvin Cross Sections
71-Lu-154m
Cross Section (barns)
Incident Energy (MeV)
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
3
71-Lu-154m

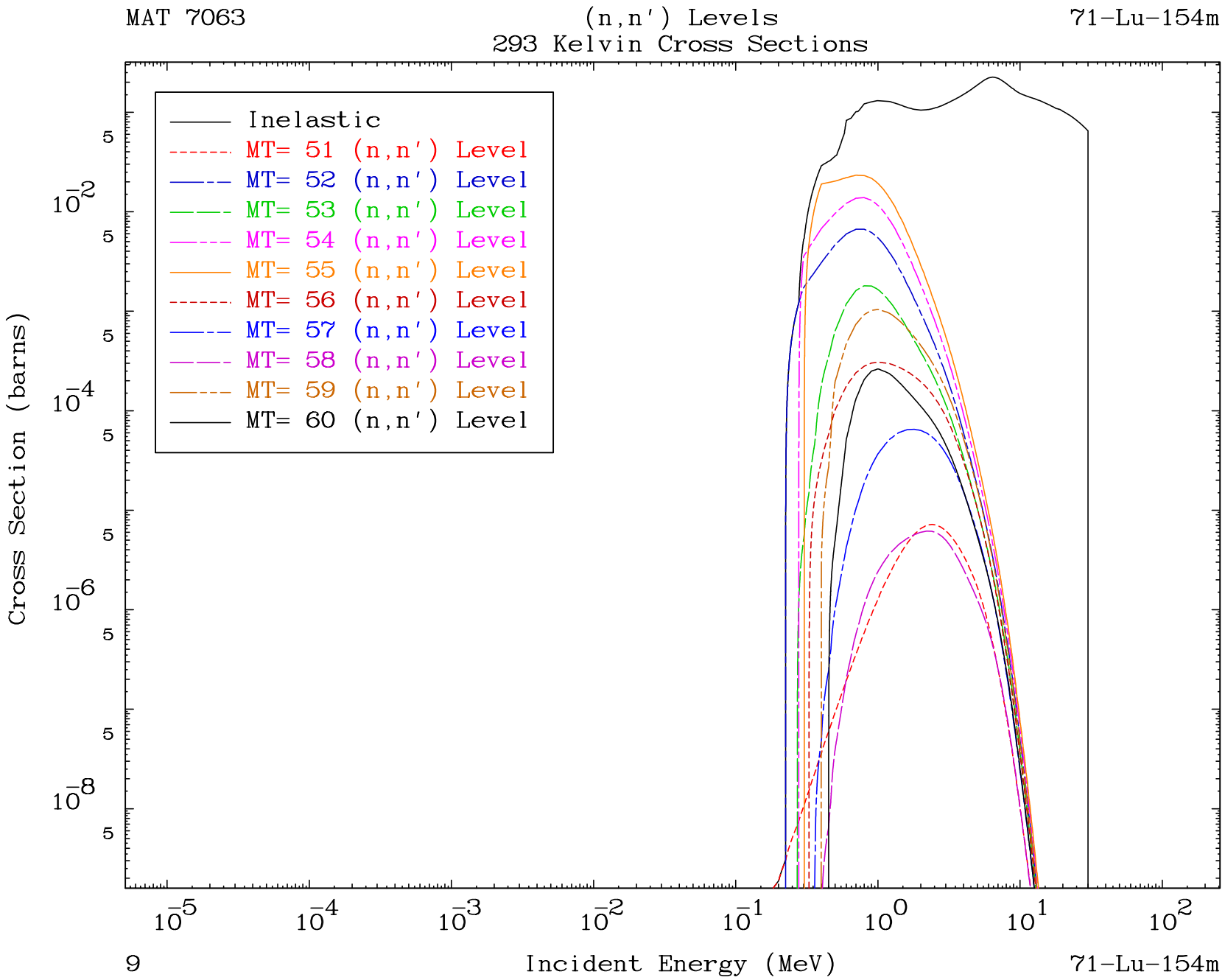

MAT 7063
Neutron Absorption
293 Kelvin Cross Sections
71-Lu-154m
Cross Section (barns)
Incident Energy (MeV)
71-Lu-154m
(n,2p)
(n,p) α
(n,d) 2α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production

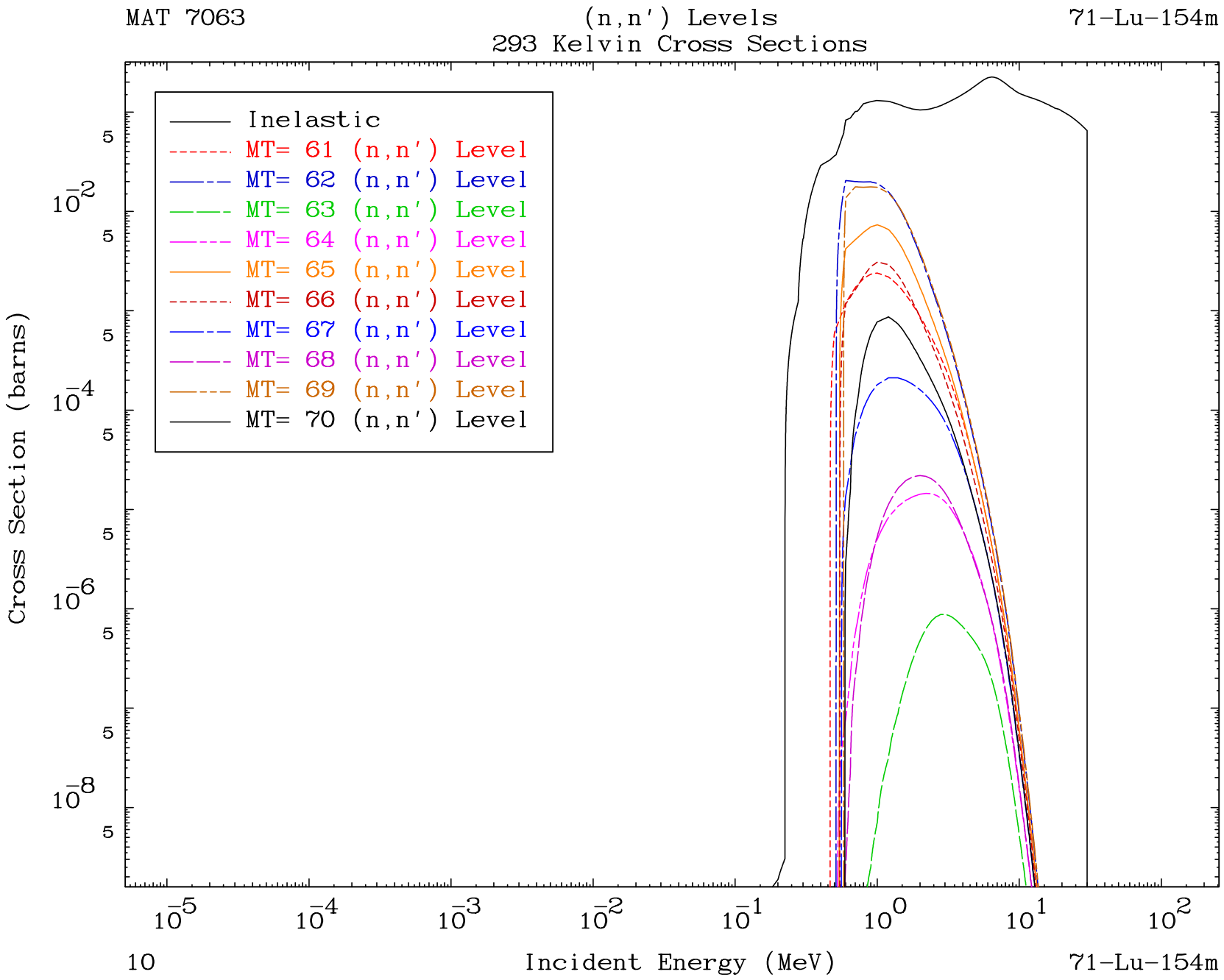

MAT 7063
Charged Particle
293 Kelvin Cross Sections
71-Lu-154m
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
71-Lu-154m

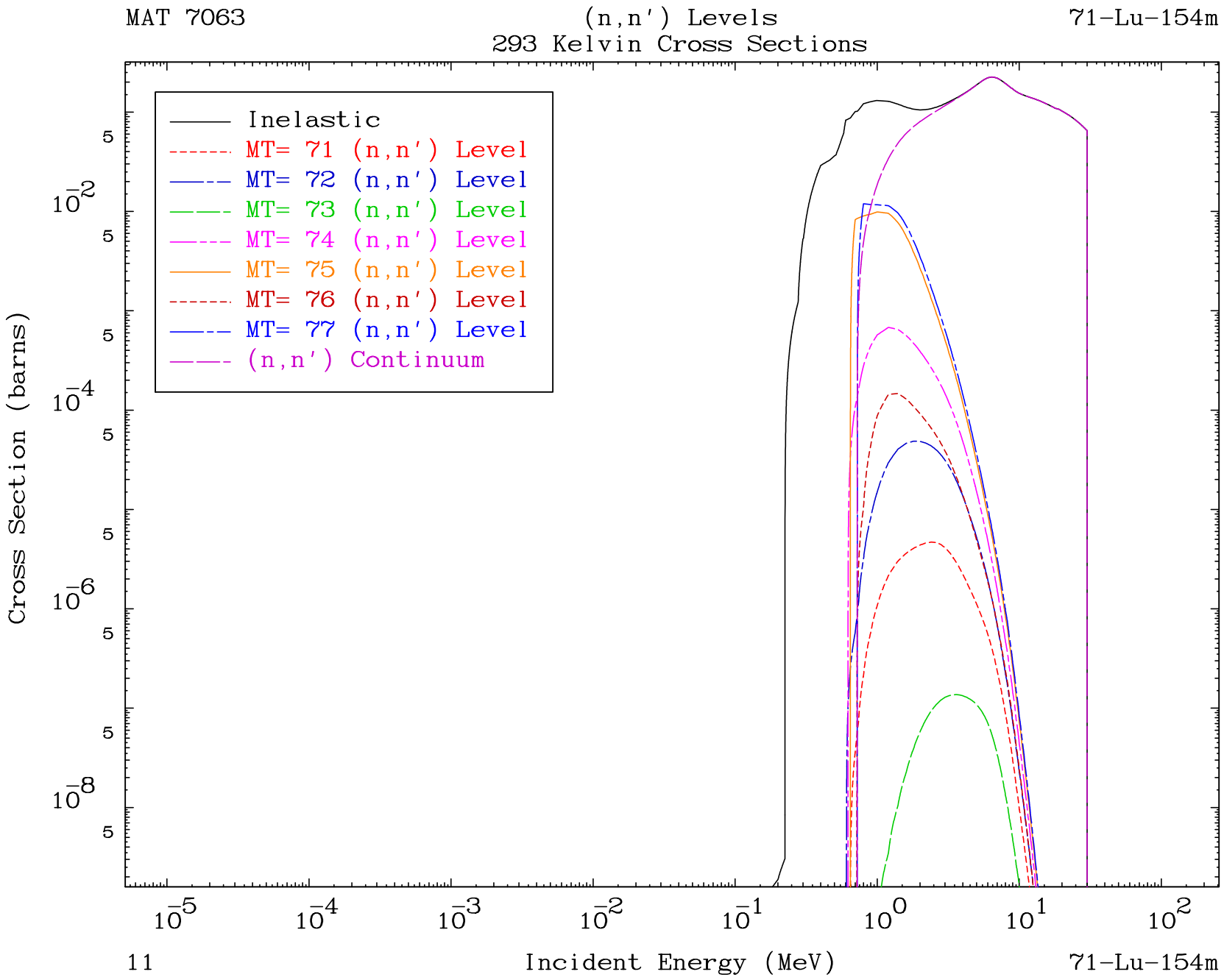

MAT 7063
Charged Particle
293 Kelvin Cross Sections
71-Lu-154m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
6
71-Lu-154m

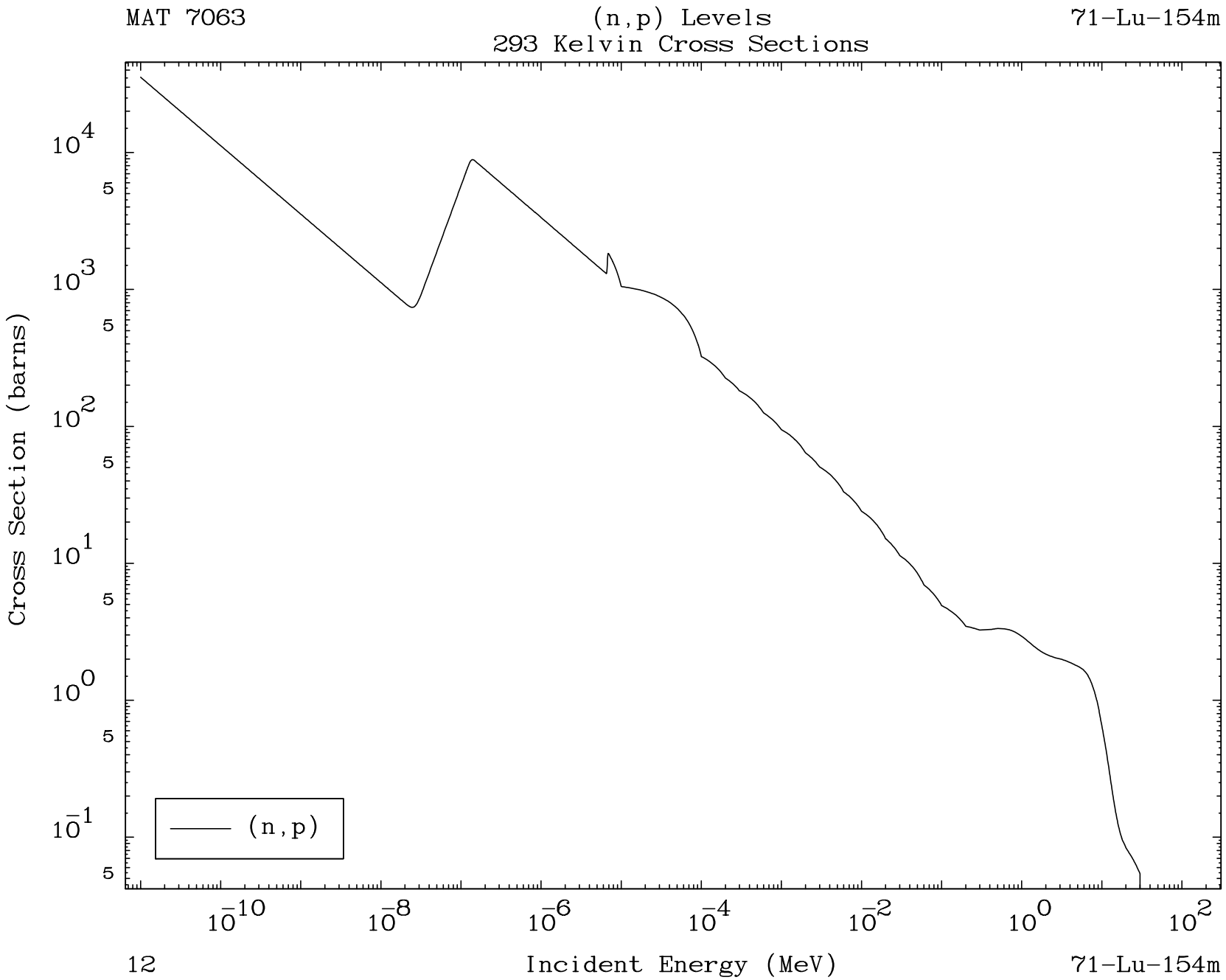

MAT 7063
Charged Particle
293 Kelvin Cross Sections
71-Lu-154m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,3α)
(n,2p)
(n,p) α
(n,d) 2α
(n,p) d
(n,p) t
7
71-Lu-154m

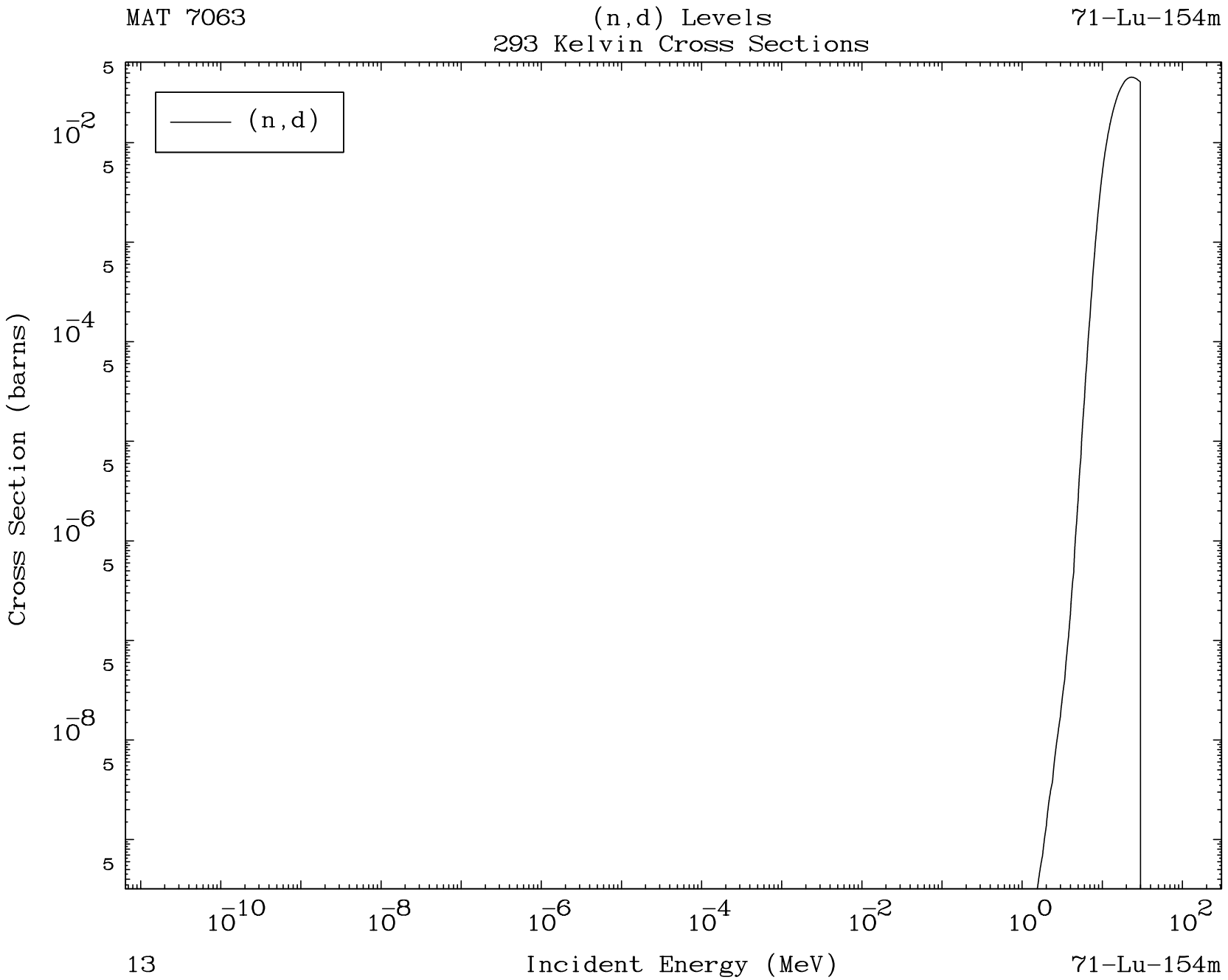

MAT 7063
Particle Production
293 Kelvin Cross Sections
71-Lu-154m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
8
71-Lu-154m

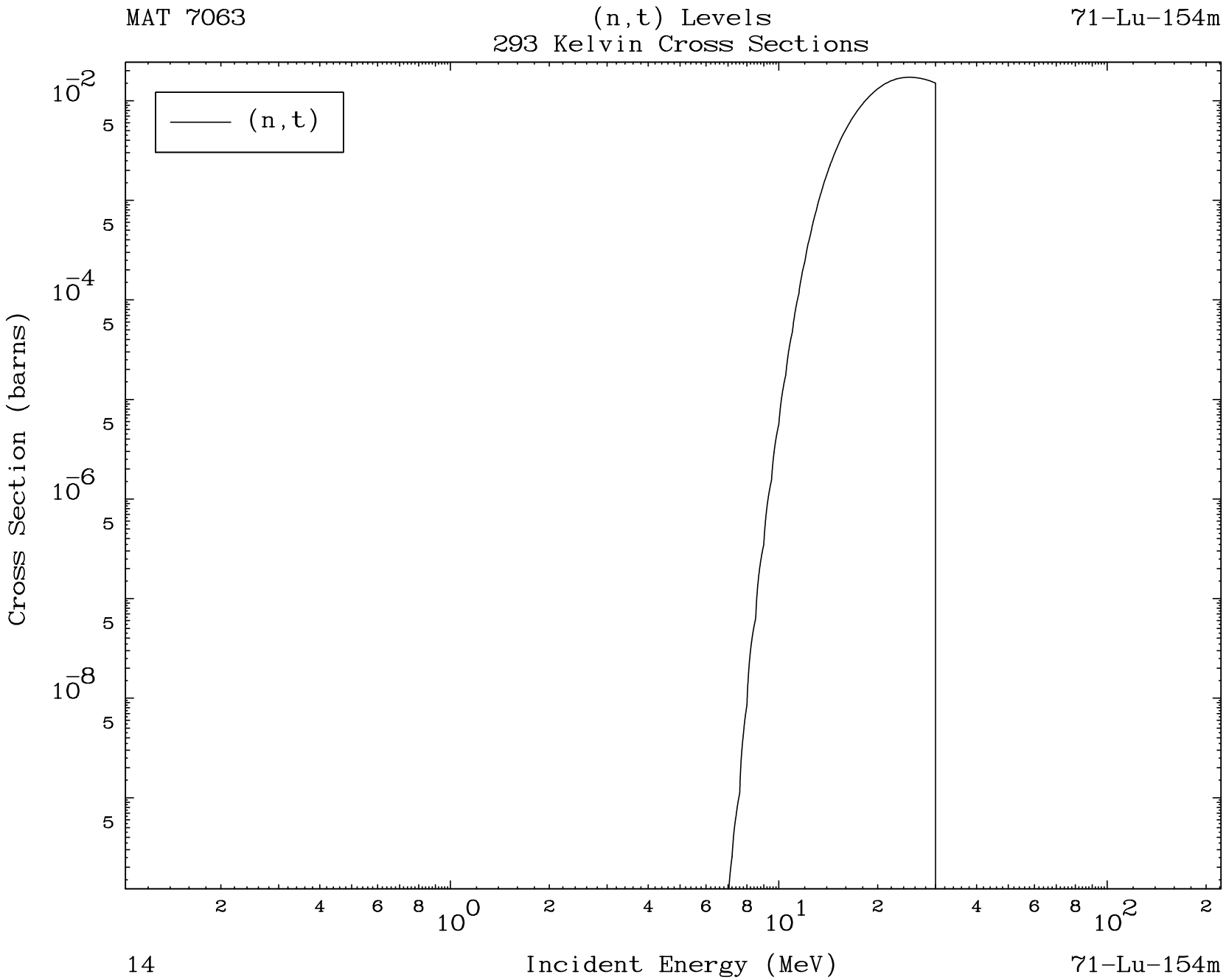

MAT 7063
(n,n') Levels
293 Kelvin Cross Sections
71-Lu-154m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
9
71-Lu-154m

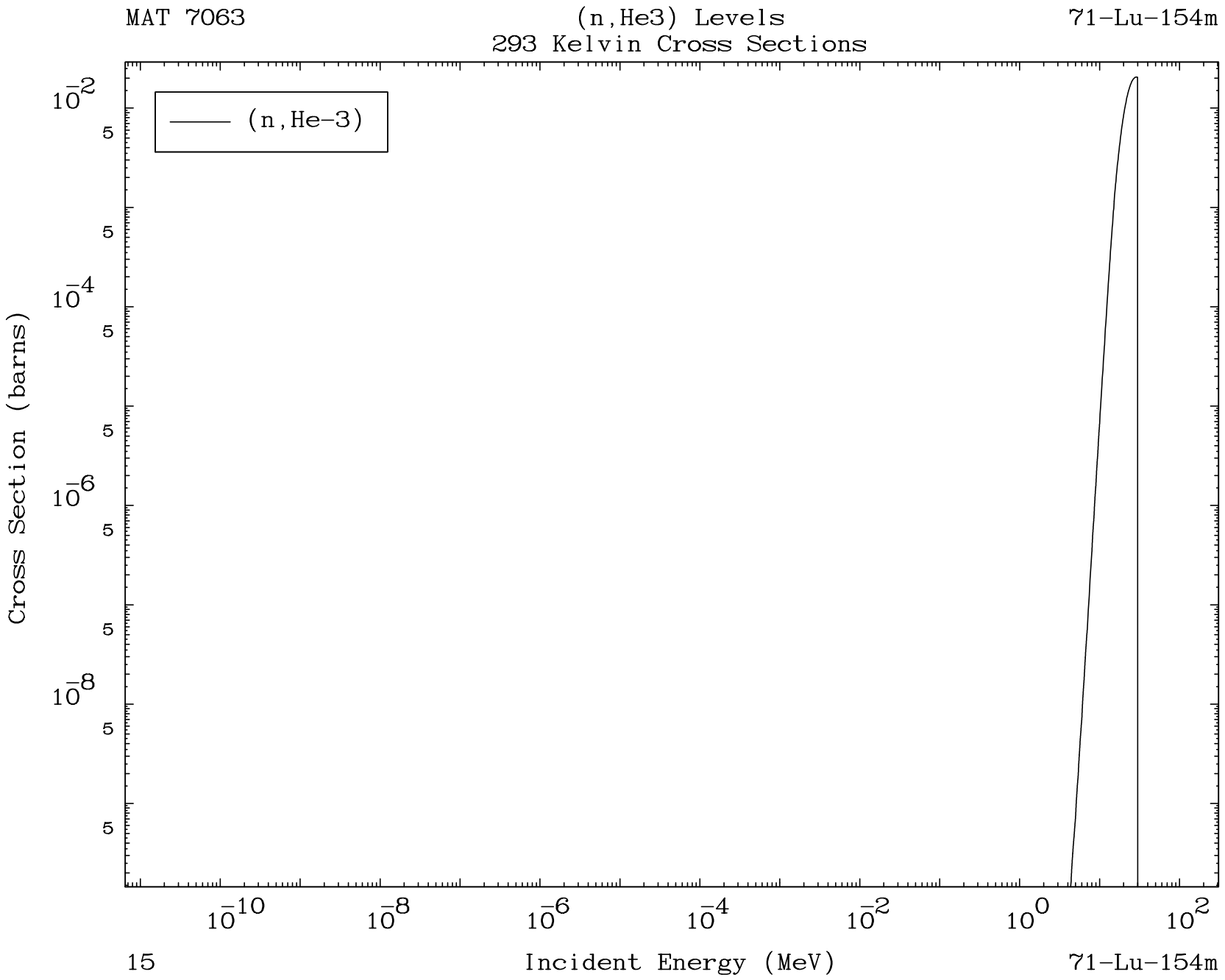

MAT 7063
(n,n') Levels
293 Kelvin Cross Sections
71-Lu-154m
Inelastic
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
71-Lu-154m

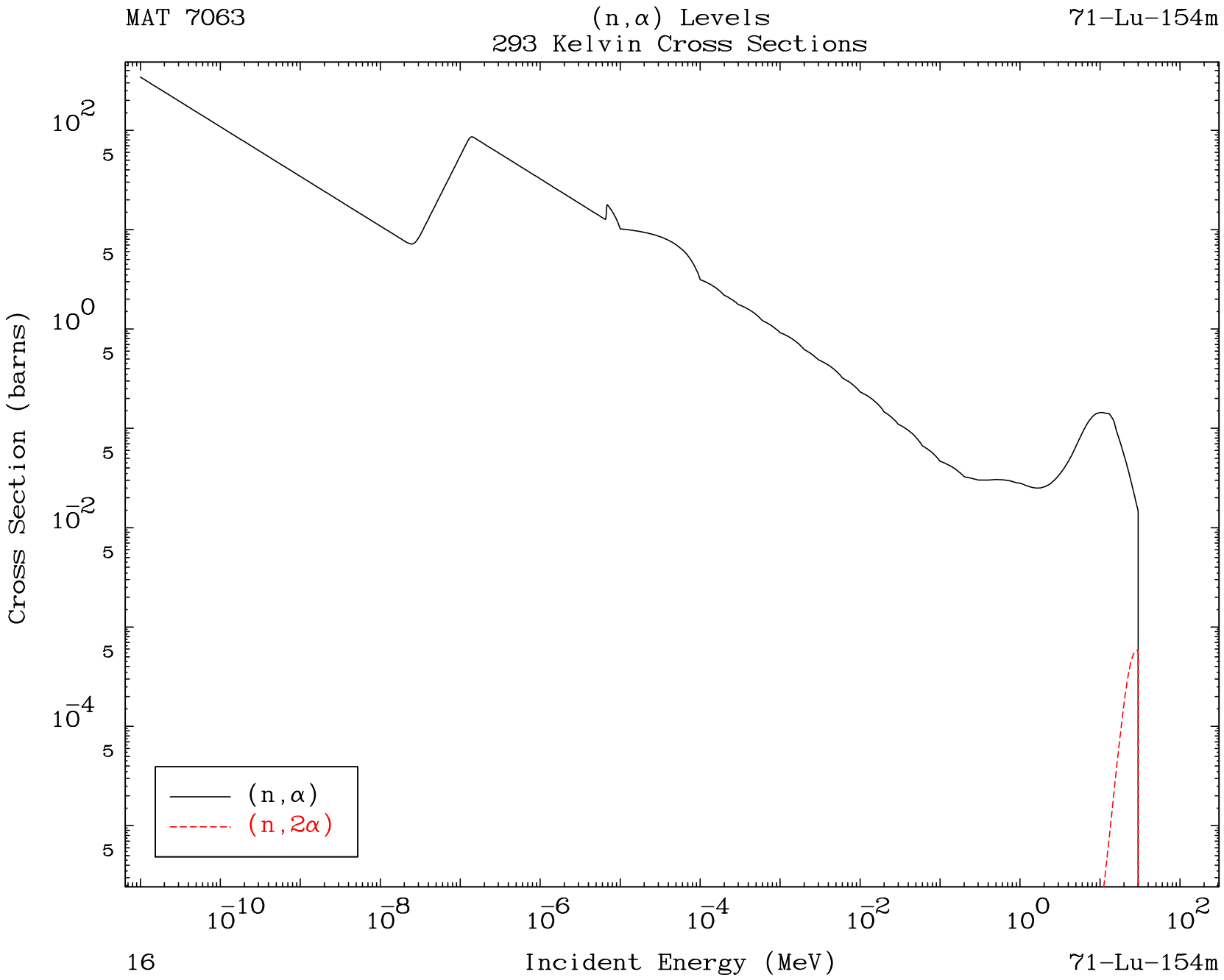

MAT 7063
(n,n') Levels
293 Kelvin Cross Sections
71-Lu-154m
Inelastic
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
11
71-Lu-154m

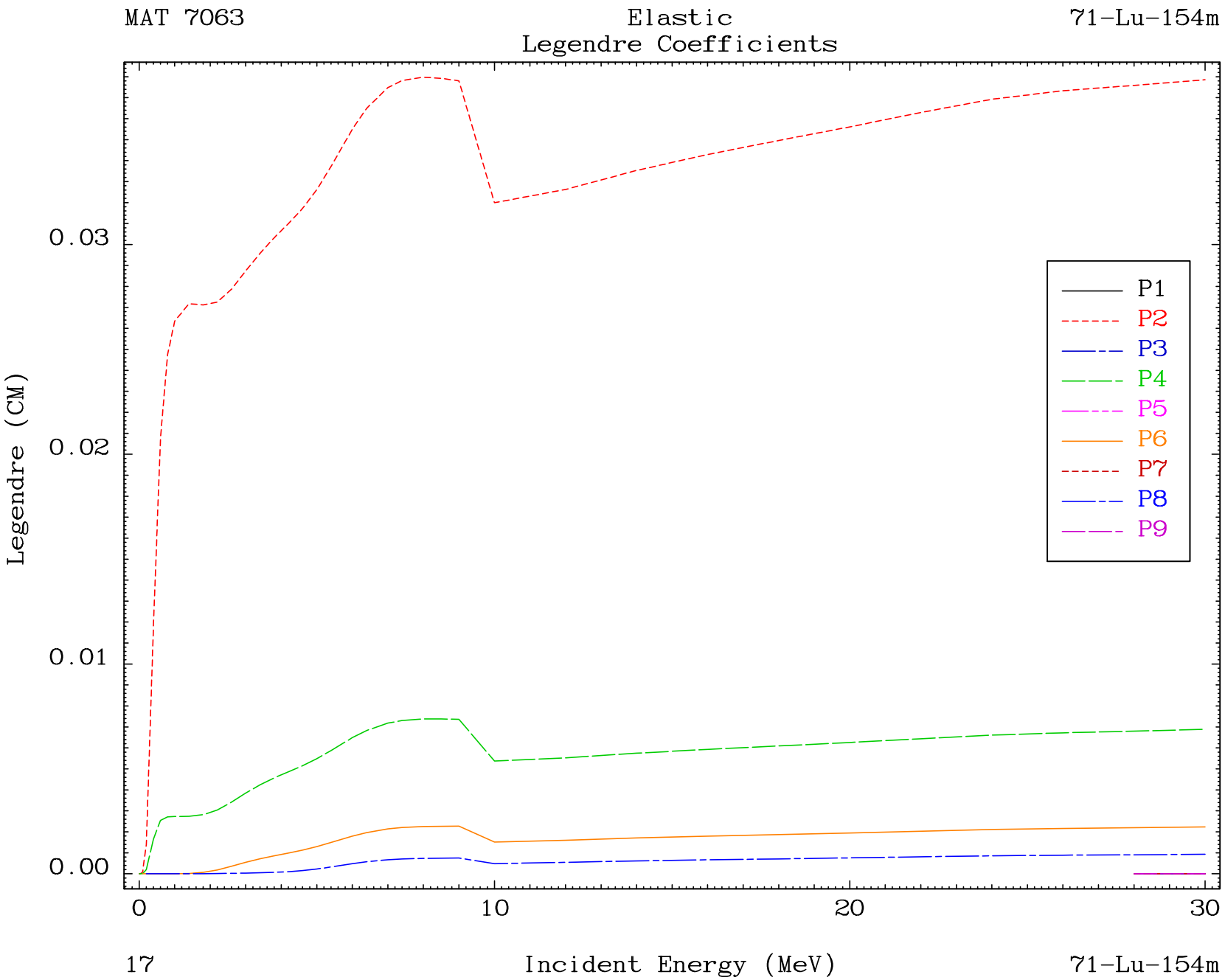

MAT 7063
(n,p) Levels
71-Lu-154m
293 Kelvin Cross Sections
Cross Section (barns)
10^4
10^3
10^2
10^1
10^0
10^-1
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
12
71-Lu-154m

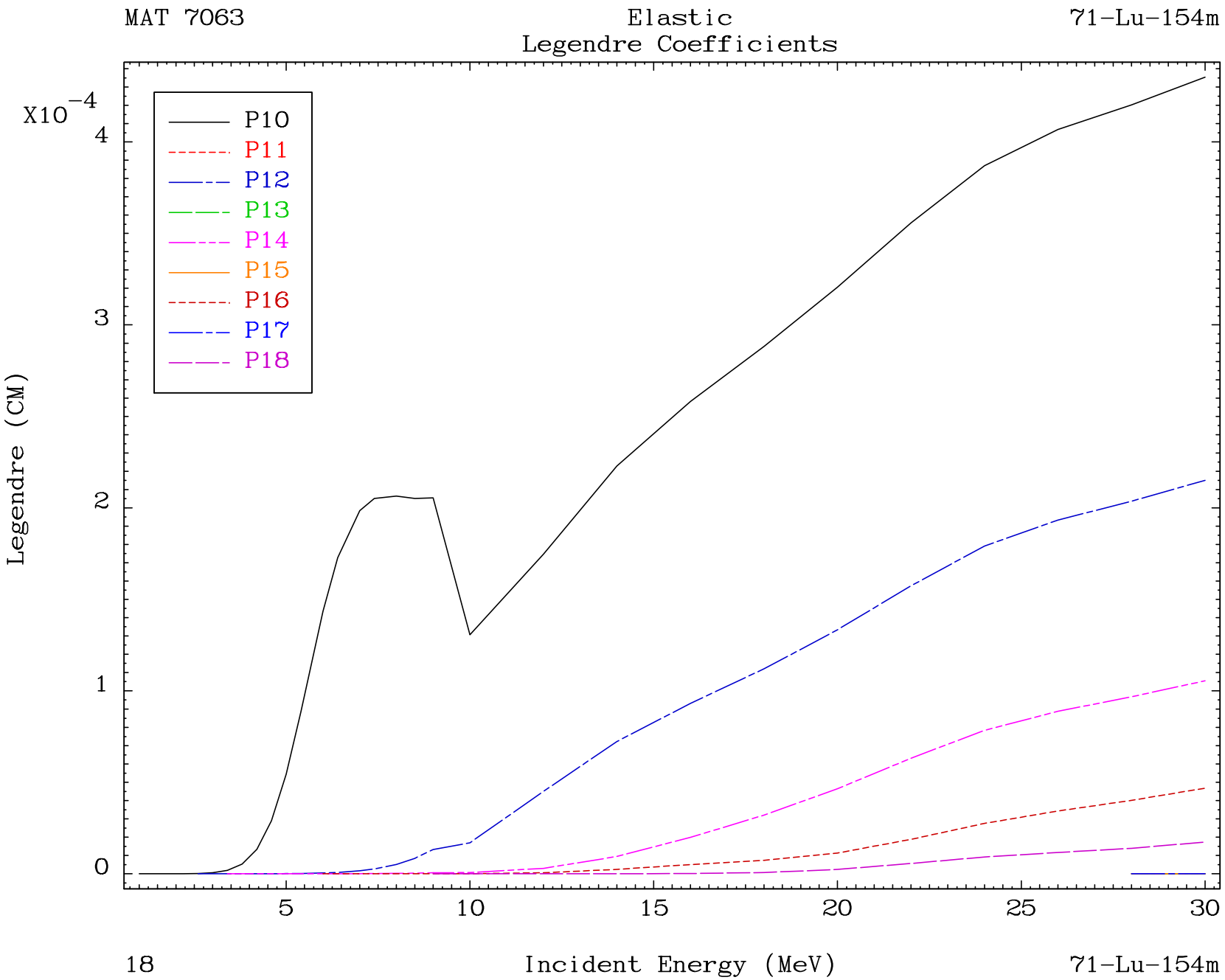

MAT 7063
(n,d) Levels
293 Kelvin Cross Sections
71-Lu-154m
(n,d)
Cross Section (barns)
Incident Energy (MeV)
13
71-Lu-154m

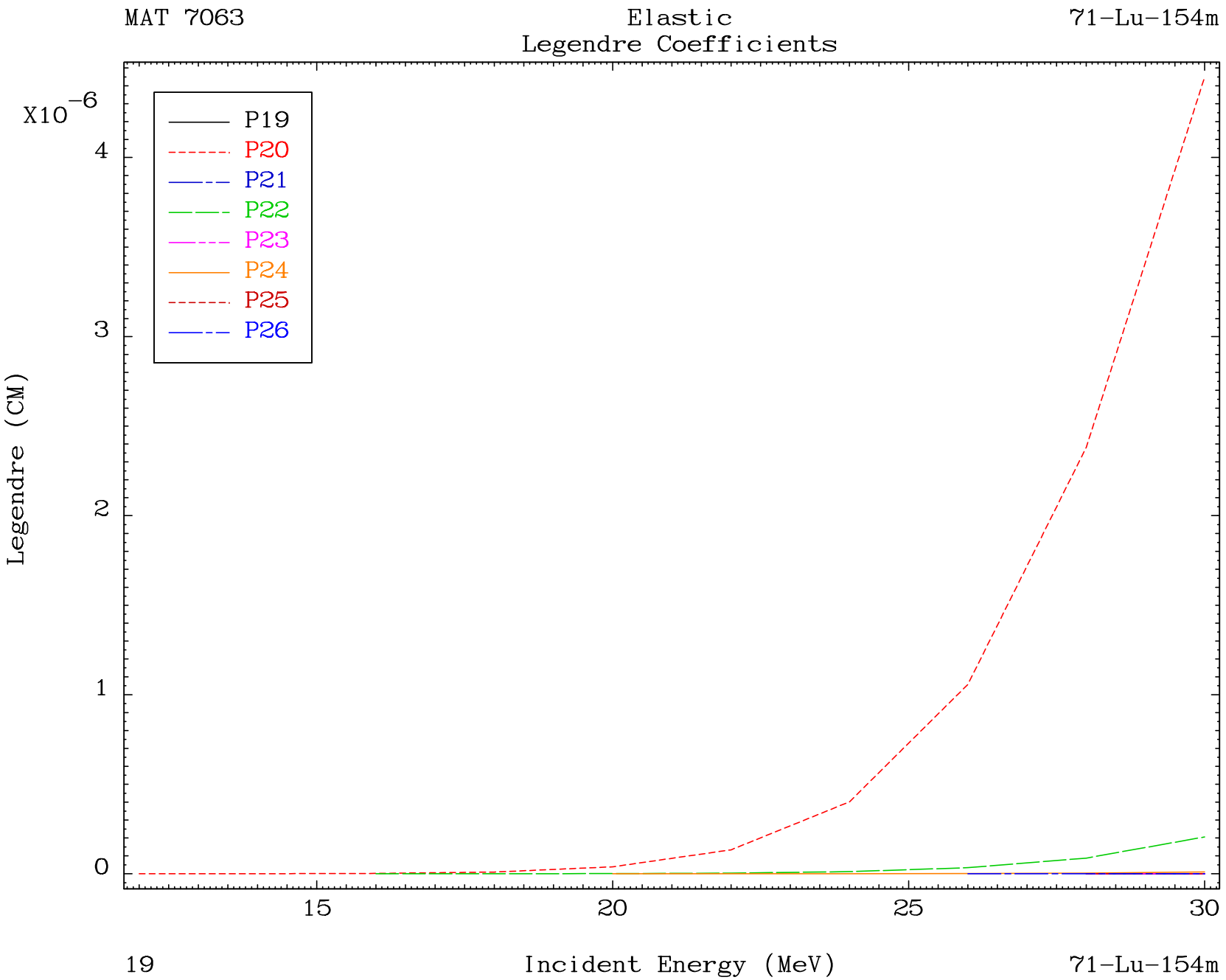

MAT 7063
(n,t) Levels
71-Lu-154m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
14
71-Lu-154m

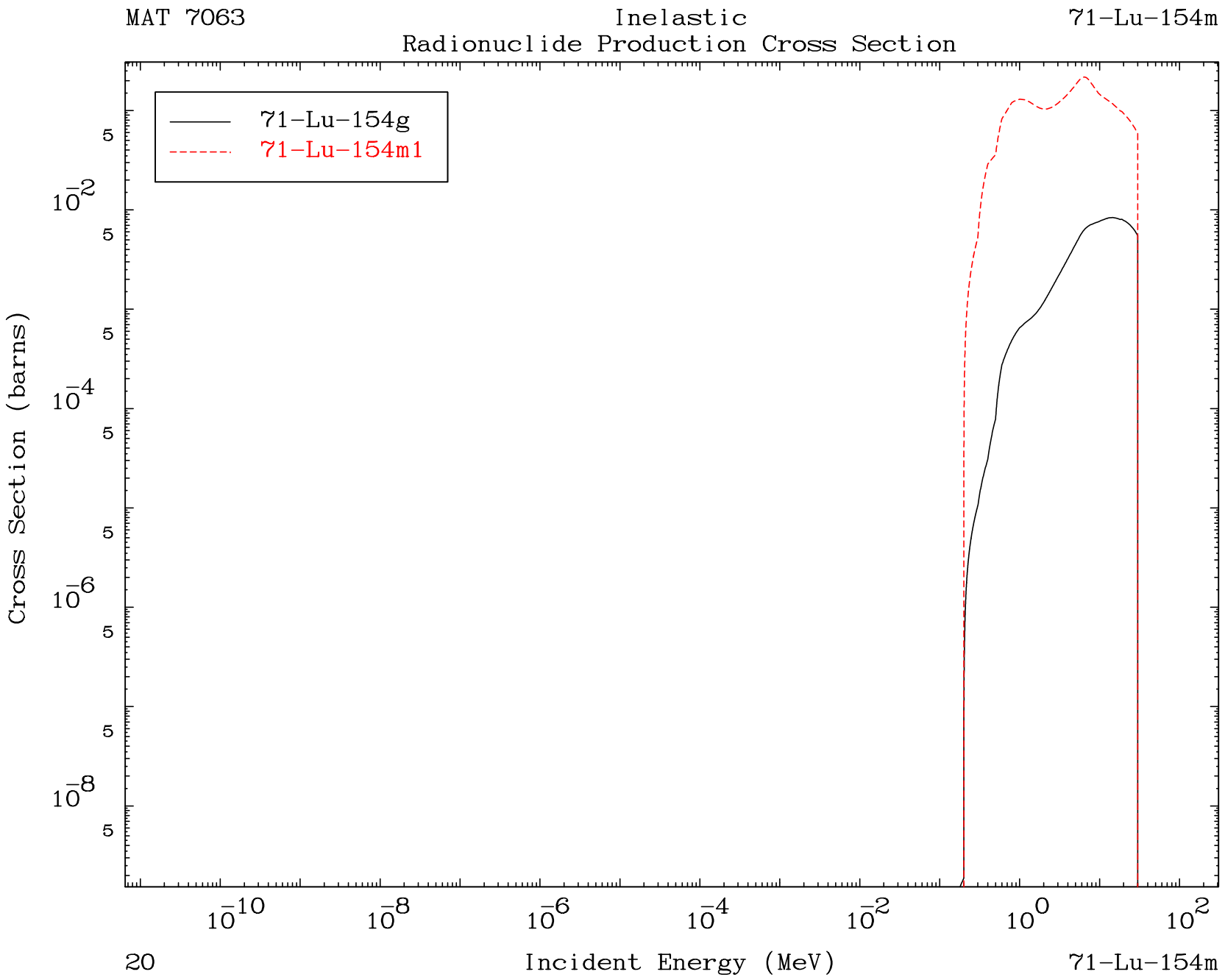

MAT 7063
(n,He3) Levels
71-Lu-154m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-2
5
10^-4
5
10^-6
5
10^-8
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
15
Incident Energy (MeV)
71-Lu-154m

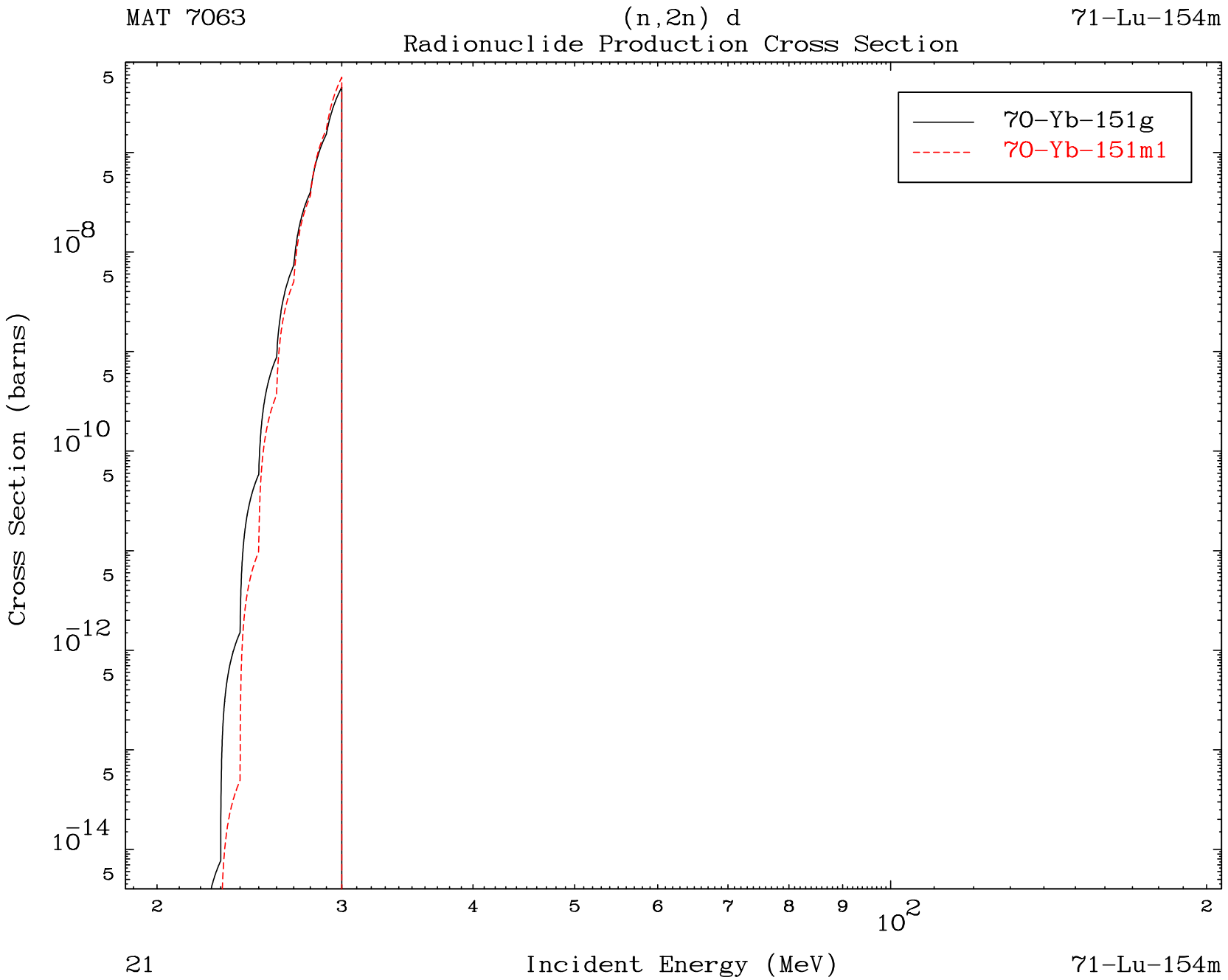

MAT 7063
(n,α) Levels
71-Lu-154m
293 Kelvin Cross Sections
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
(n,α)
(n,2α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
16
Incident Energy (MeV)
71-Lu-154m

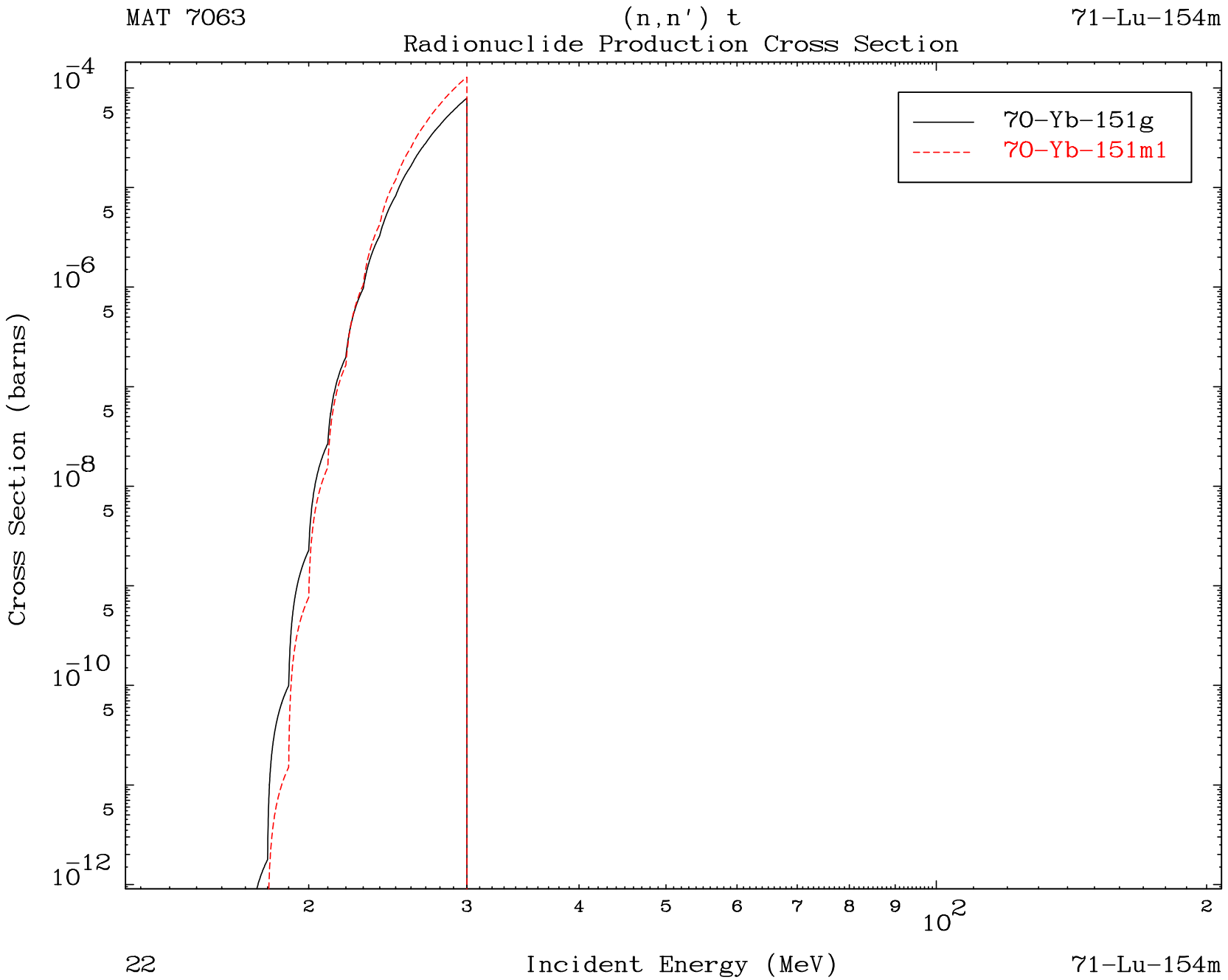

MAT 7063
Elastic
Legendre Coefficients
71-Lu-154m
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
17
Incident Energy (MeV)
71-Lu-154m

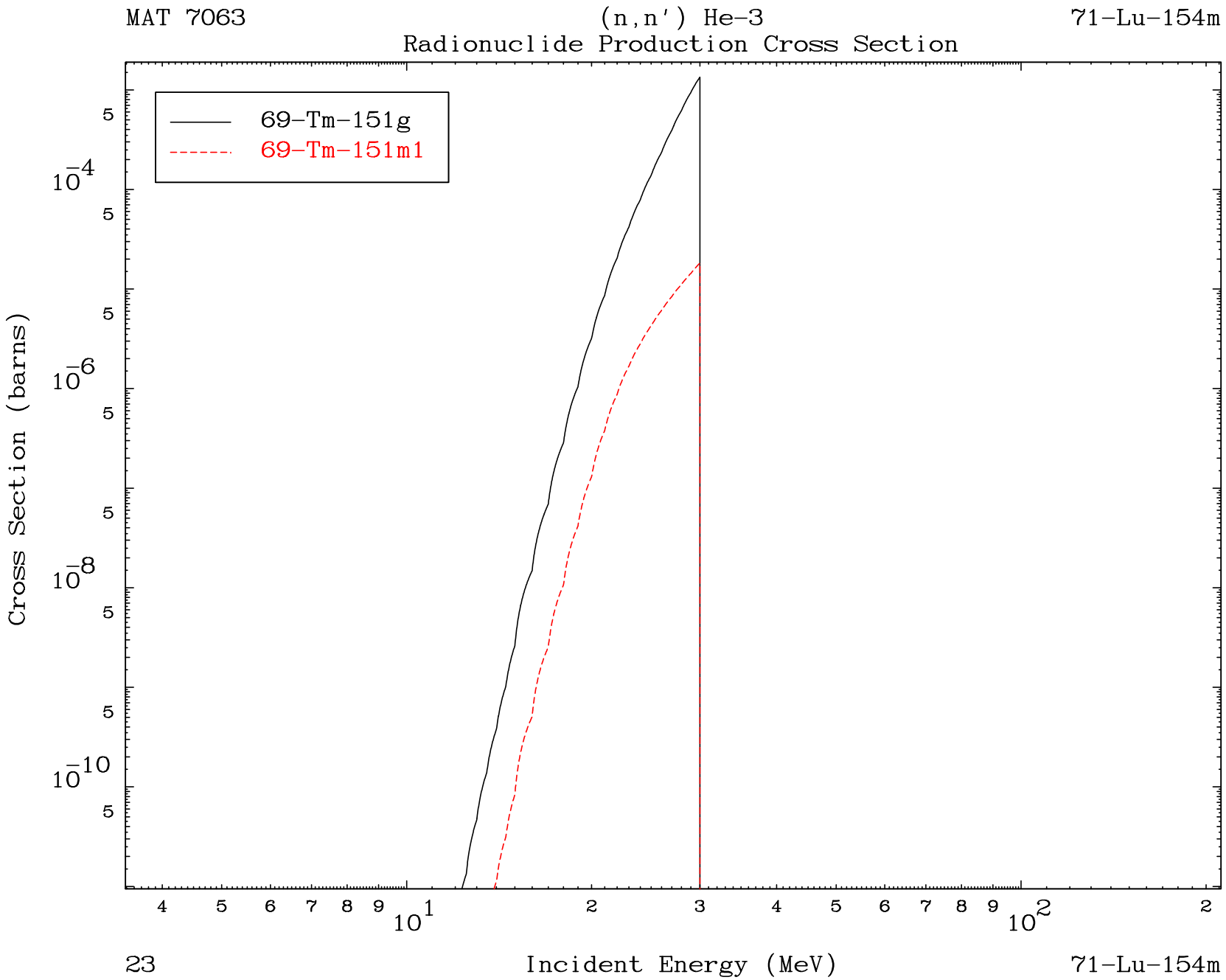

MAT 7063
Elastic
Legendre Coefficients
71-Lu-154m
X10 −4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
18
Incident Energy (MeV)
71-Lu-154m

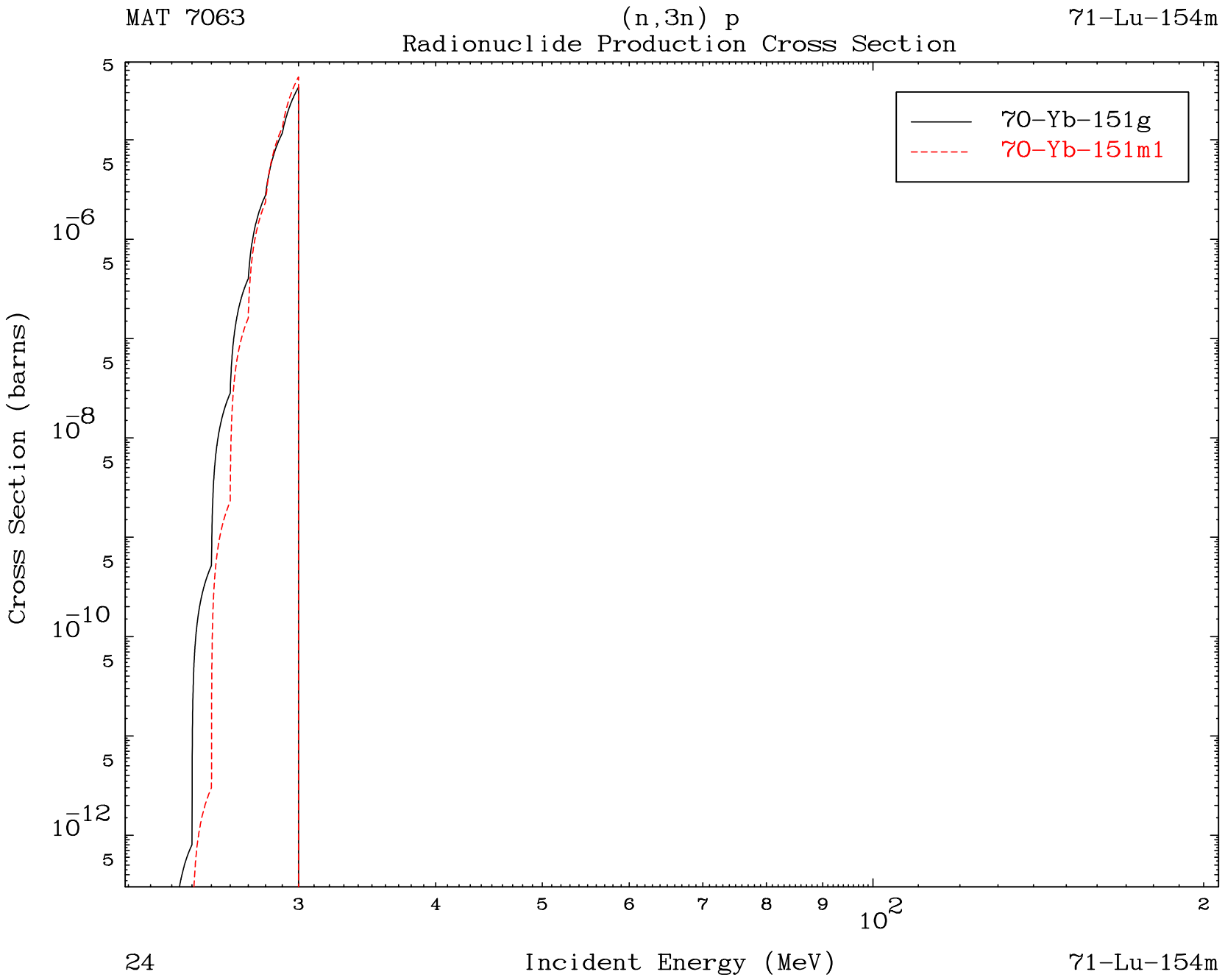

MAT 7063
Elastic
Legendre Coefficients
71-Lu-154m
X10 −6
4
3
2
1
0
P19
P20
P21
P22
P23
P24
P25
P26
Legendre (CM)
15
20
25
30
19
Incident Energy (MeV)
71-Lu-154m

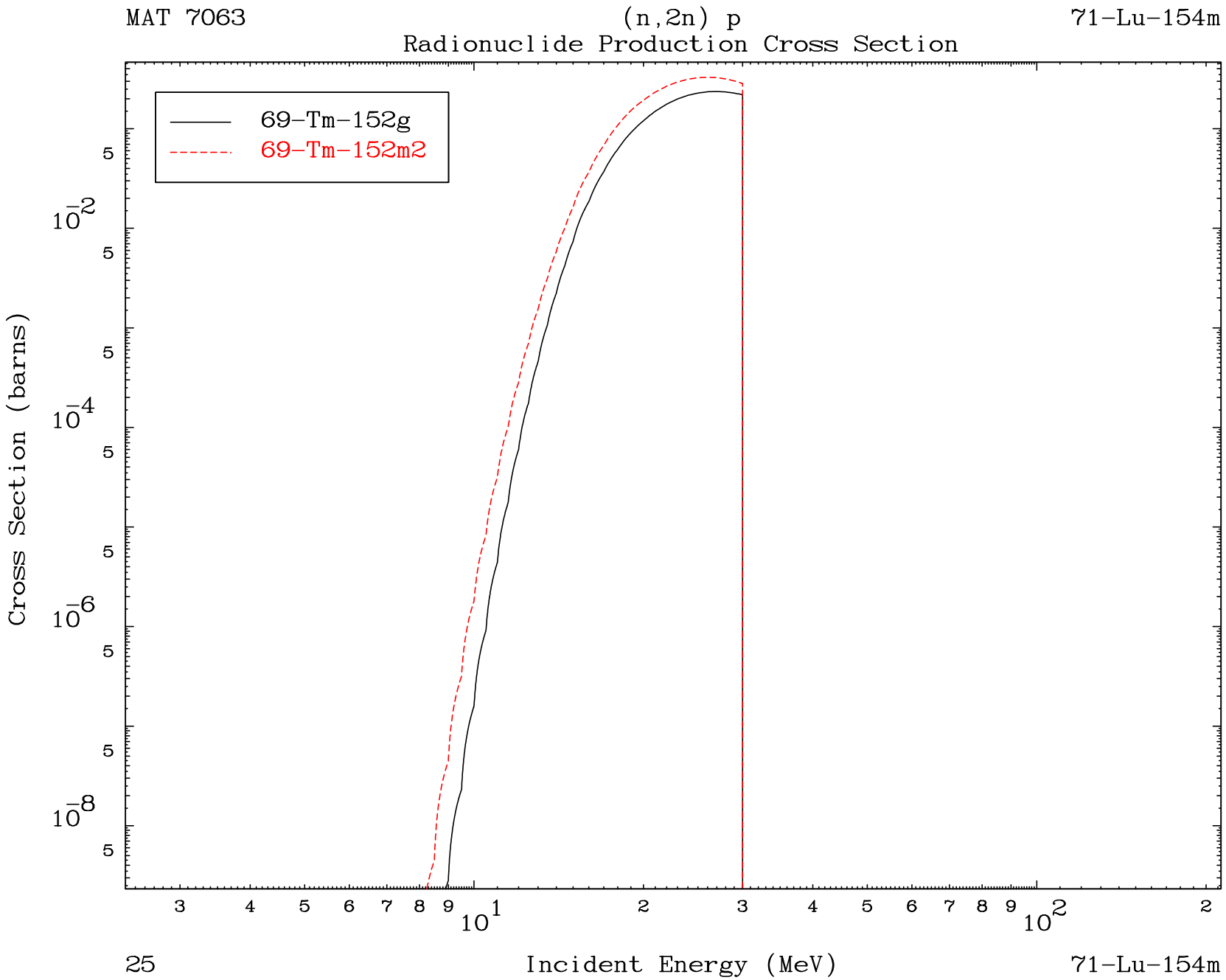

MAT 7063
Inelastic
71-Lu-154m
Radionuclide Production Cross Section
71-Lu-154g
71-Lu-154m1
Cross Section (barns)
Incident Energy (MeV)
20
71-Lu-154m

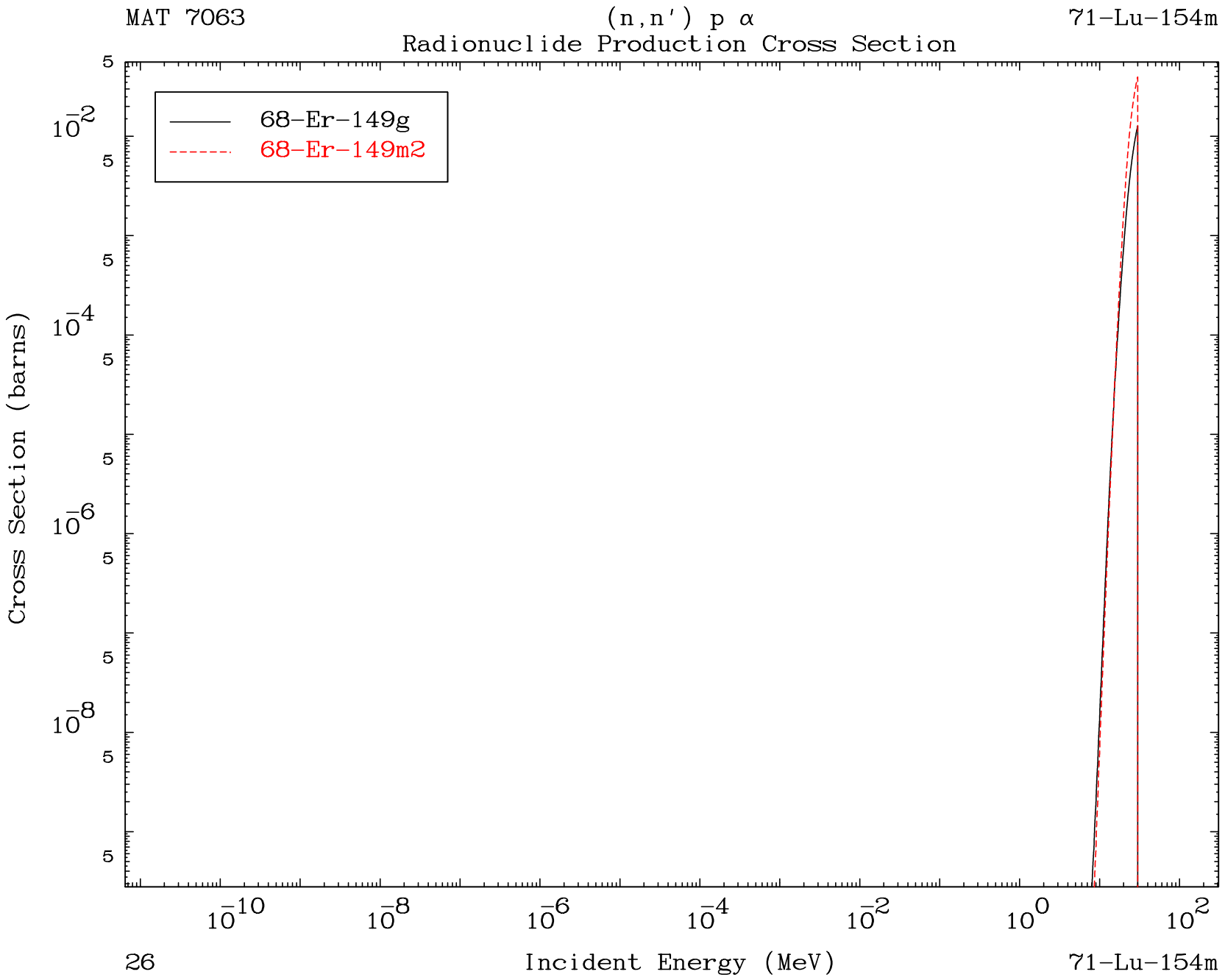

MAT 7063
(n,2n) d
71-Lu-154m
Radionuclide Production Cross Section
70-Yb-151g
70-Yb-151m1
Cross Section (barns)
Incident Energy (MeV)
21
71-Lu-154m

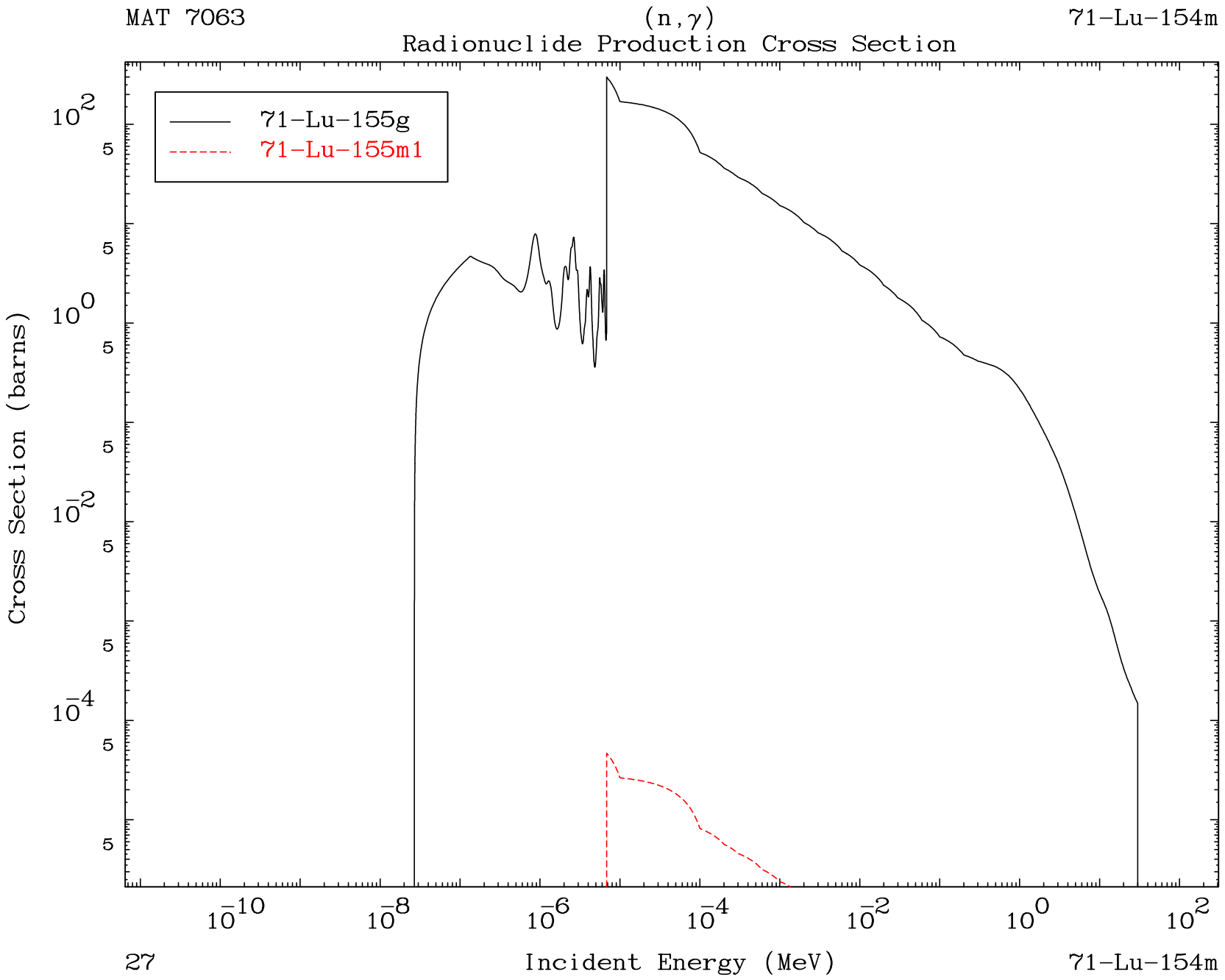

MAT 7063
(n,n') t
71-Lu-154m
Radionuclide Production Cross Section
70-Yb-151g
70-Yb-151m1
Cross Section (barns)
Incident Energy (MeV)
22
71-Lu-154m

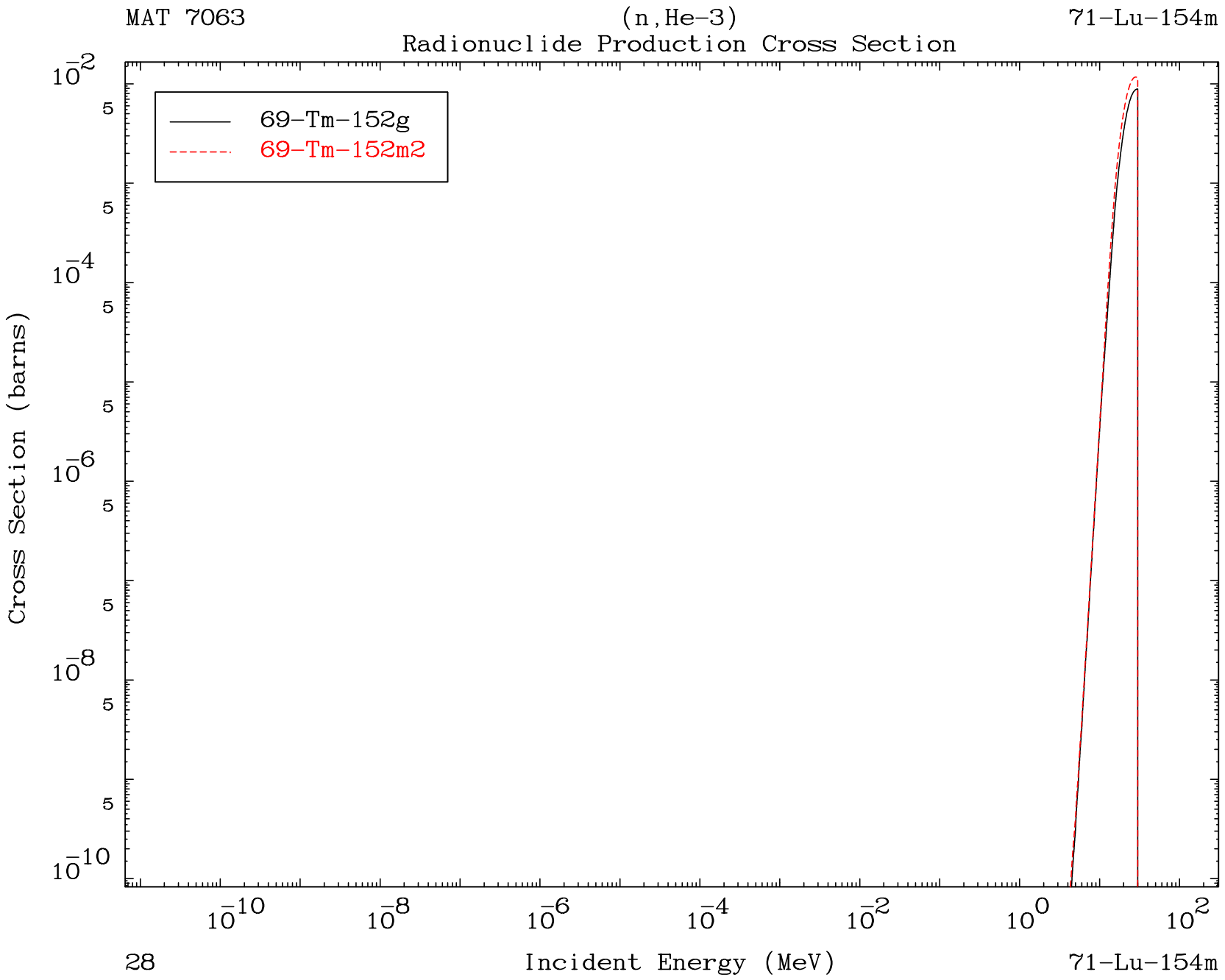

MAT 7063
(n,n') He-3
71-Lu-154m
Radionuclide Production Cross Section
69-Tm-151g
69-Tm-151m1
Cross Section (barns)
10-4
10-6
10-8
10-10
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
23
Incident Energy (MeV)
71-Lu-154m

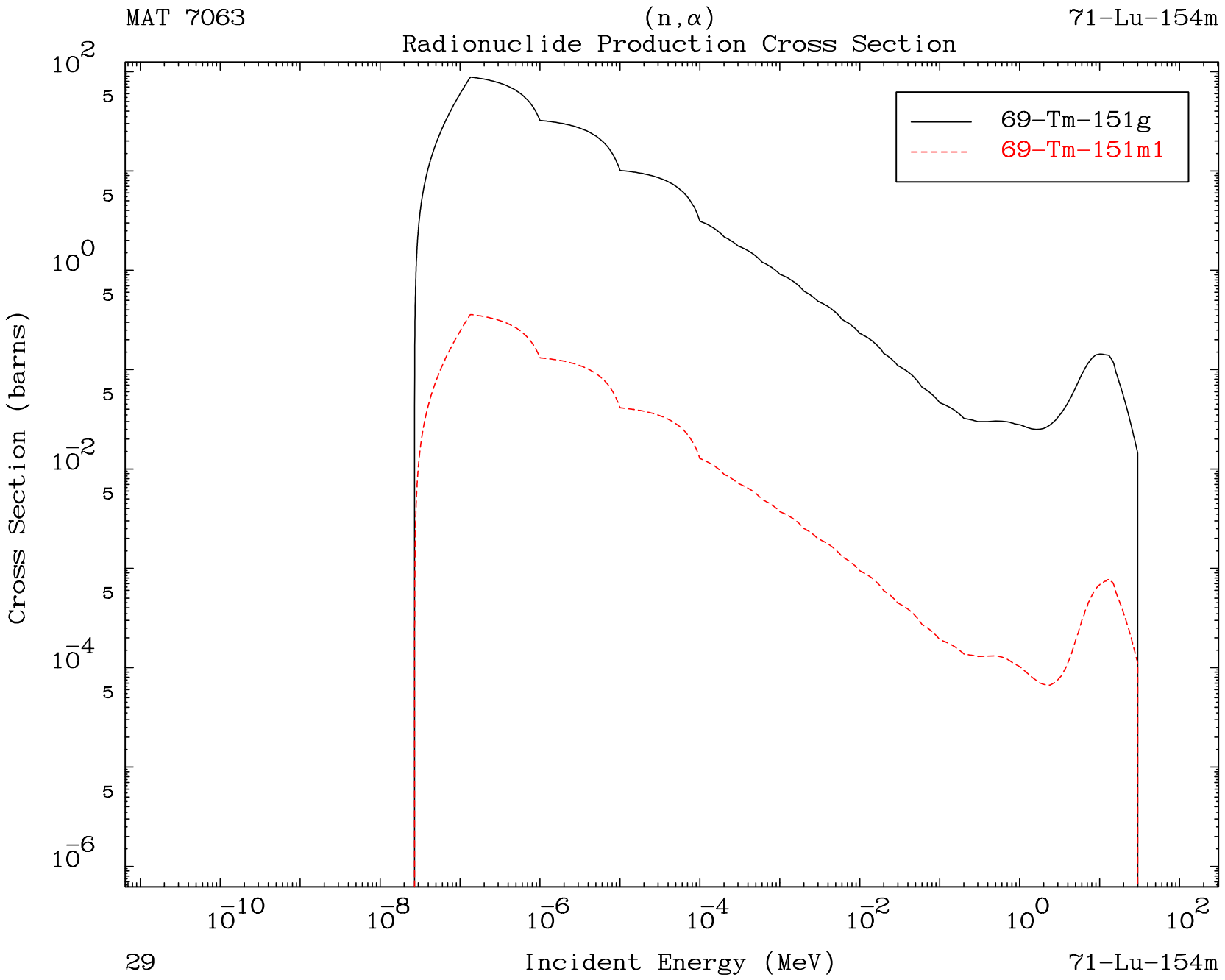

MAT 7063
(n,3n) p
71-Lu-154m
Radionuclide Production Cross Section
70-Yb-151g
70-Yb-151m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
24
Incident Energy (MeV)
71-Lu-154m

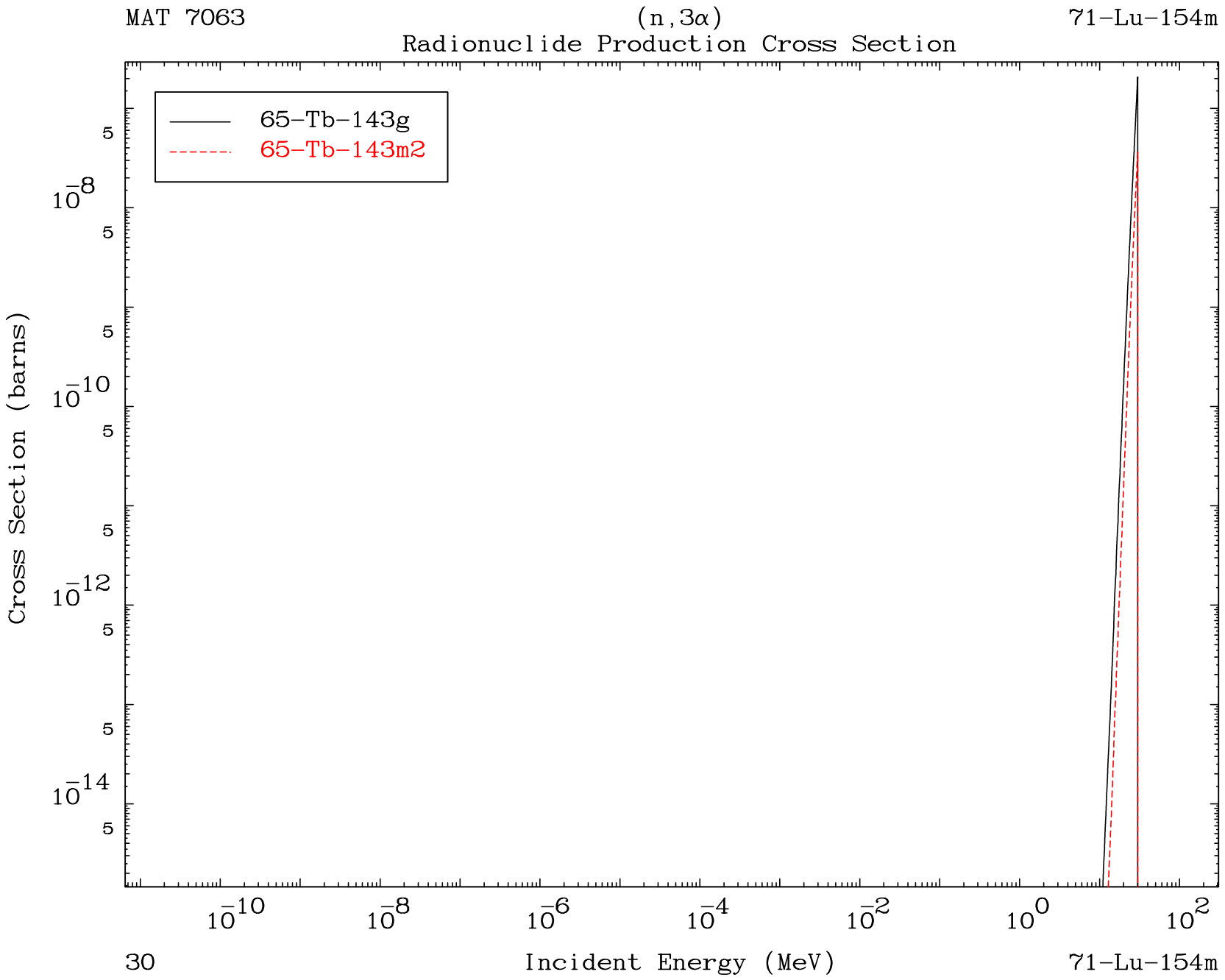

MAT 7063
(n,2n) p
71-Lu-154m
Radionuclide Production Cross Section
69-Tm-152g
69-Tm-152m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
25
71-Lu-154m

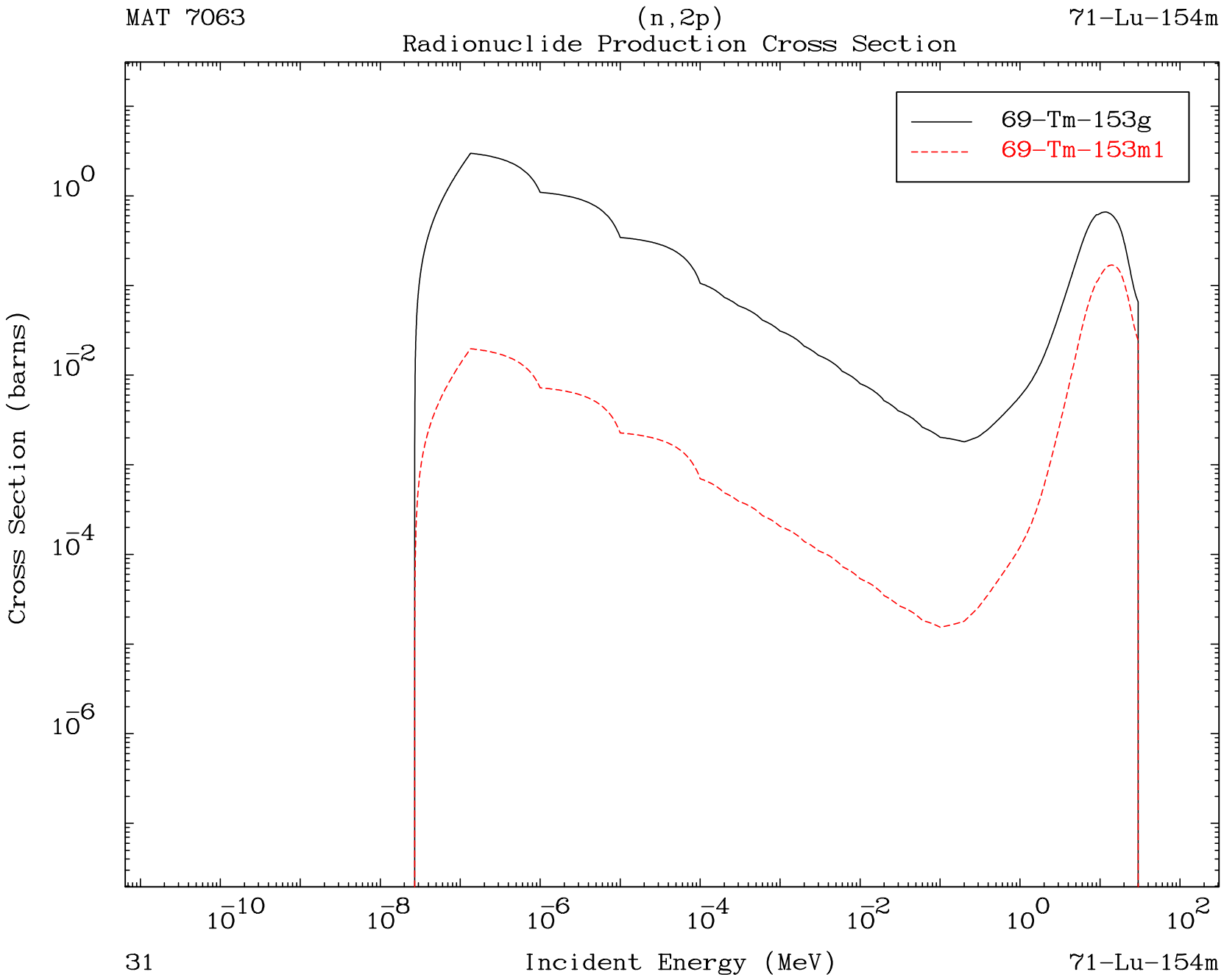

MAT 7063
(n,n') p α
71-Lu-154m
Radionuclide Production Cross Section
68-Er-149g
68-Er-149m2
Cross Section (barns)
Incident Energy (MeV)
26
71-Lu-154m

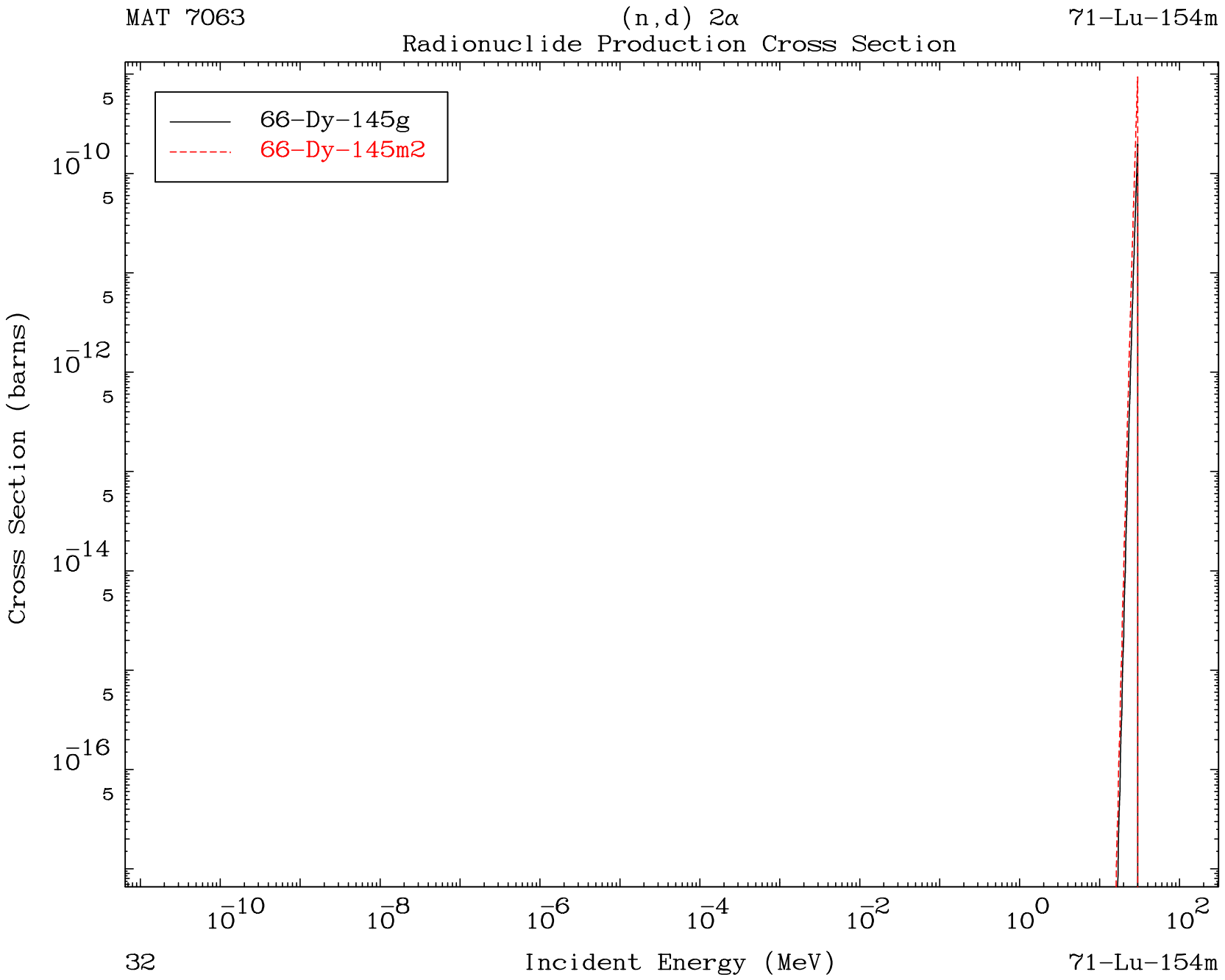

MAT 7063
(n,γ)
71-Lu-154m
Radionuclide Production Cross Section
71-Lu-155g
71-Lu-155m1
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
27
71-Lu-154m

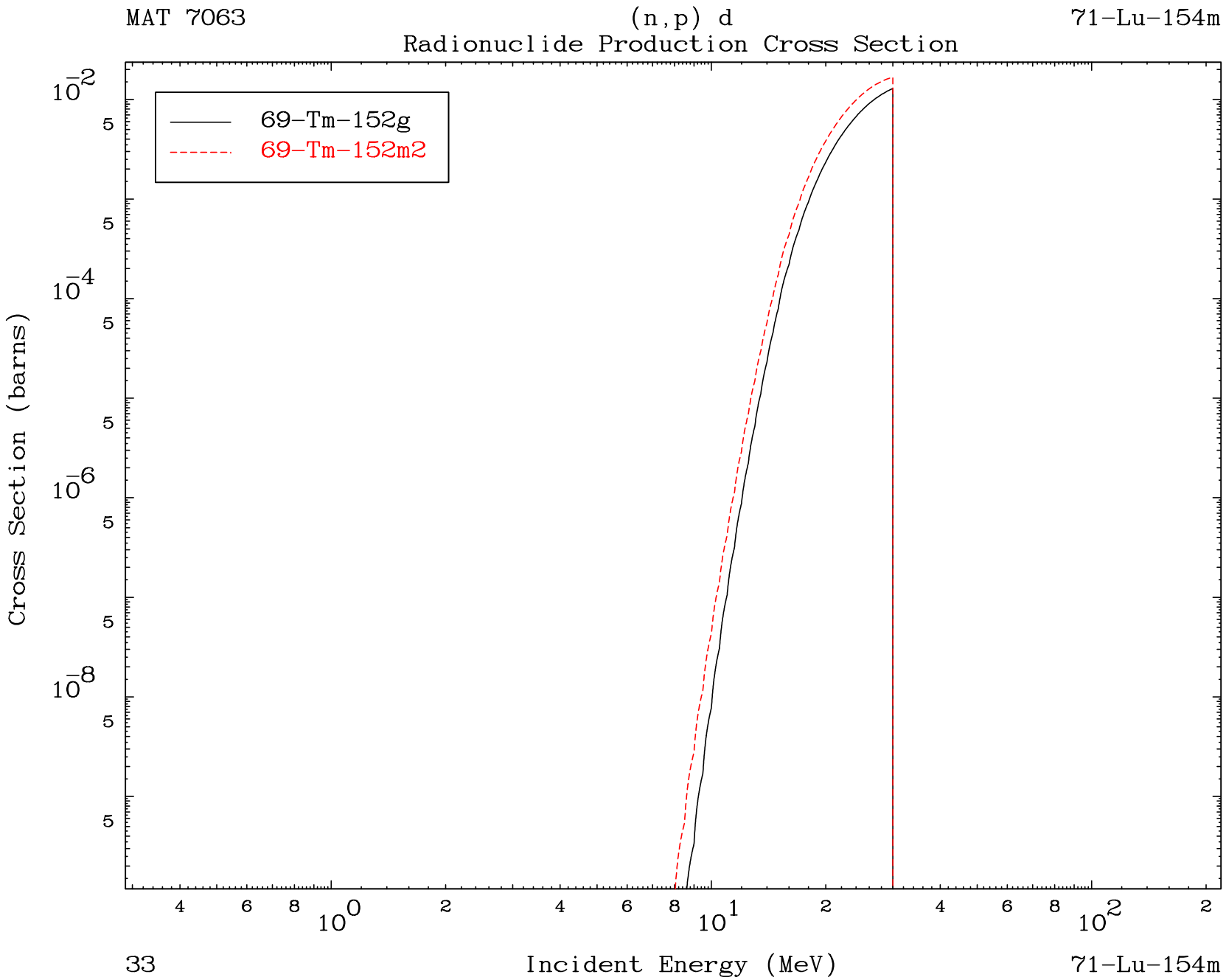

MAT 7063
(n,He-3)
71-Lu-154m
Radionuclide Production Cross Section
69-Tm-152g
69-Tm-152m2
Cross Section (barns)
Incident Energy (MeV)
28
71-Lu-154m

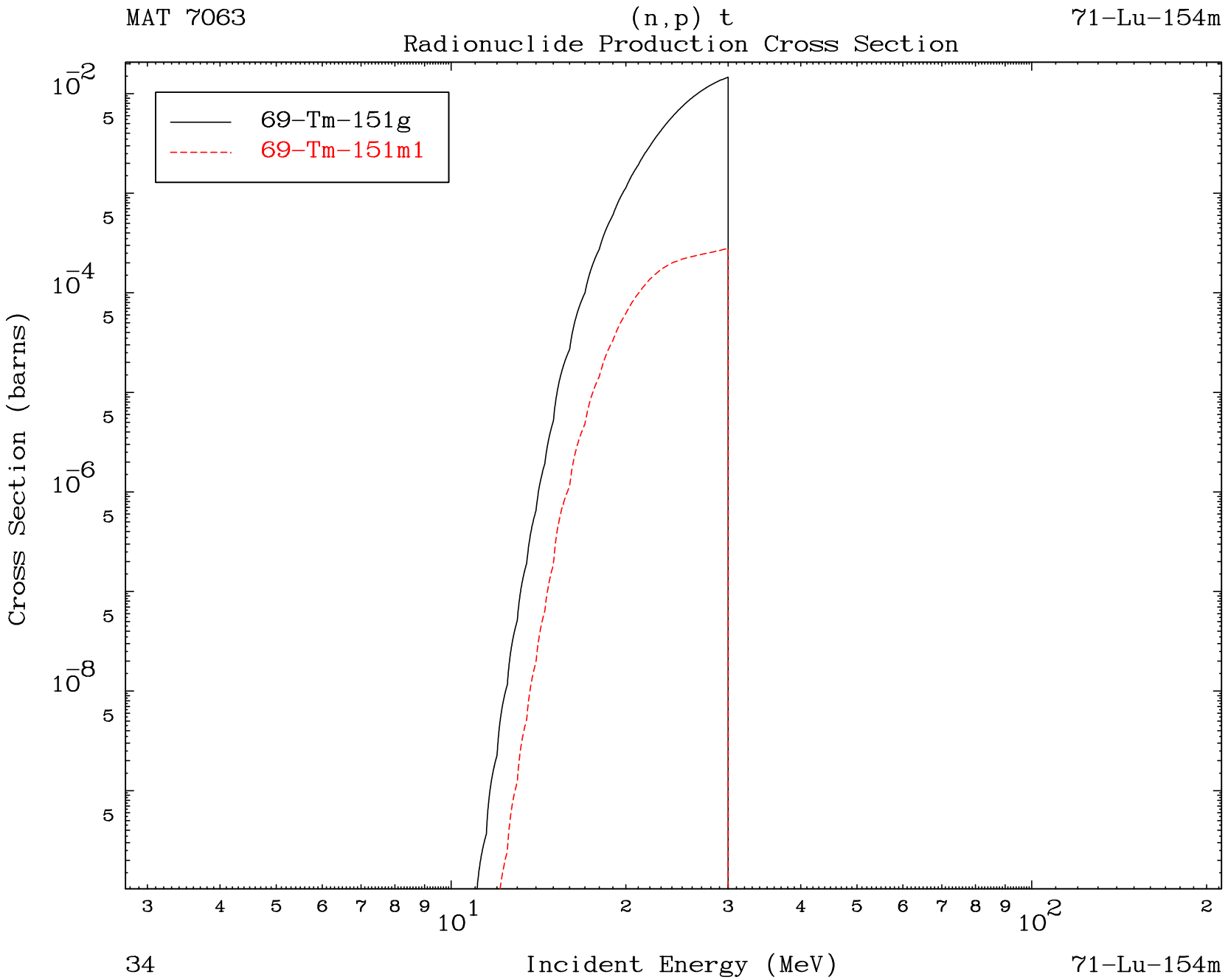

MAT 7063
(n,α)
71-Lu-154m
Radionuclide Production Cross Section
69-Tm-151g
69-Tm-151m1
Cross Section (barns)
Incident Energy (MeV)
29
71-Lu-154m

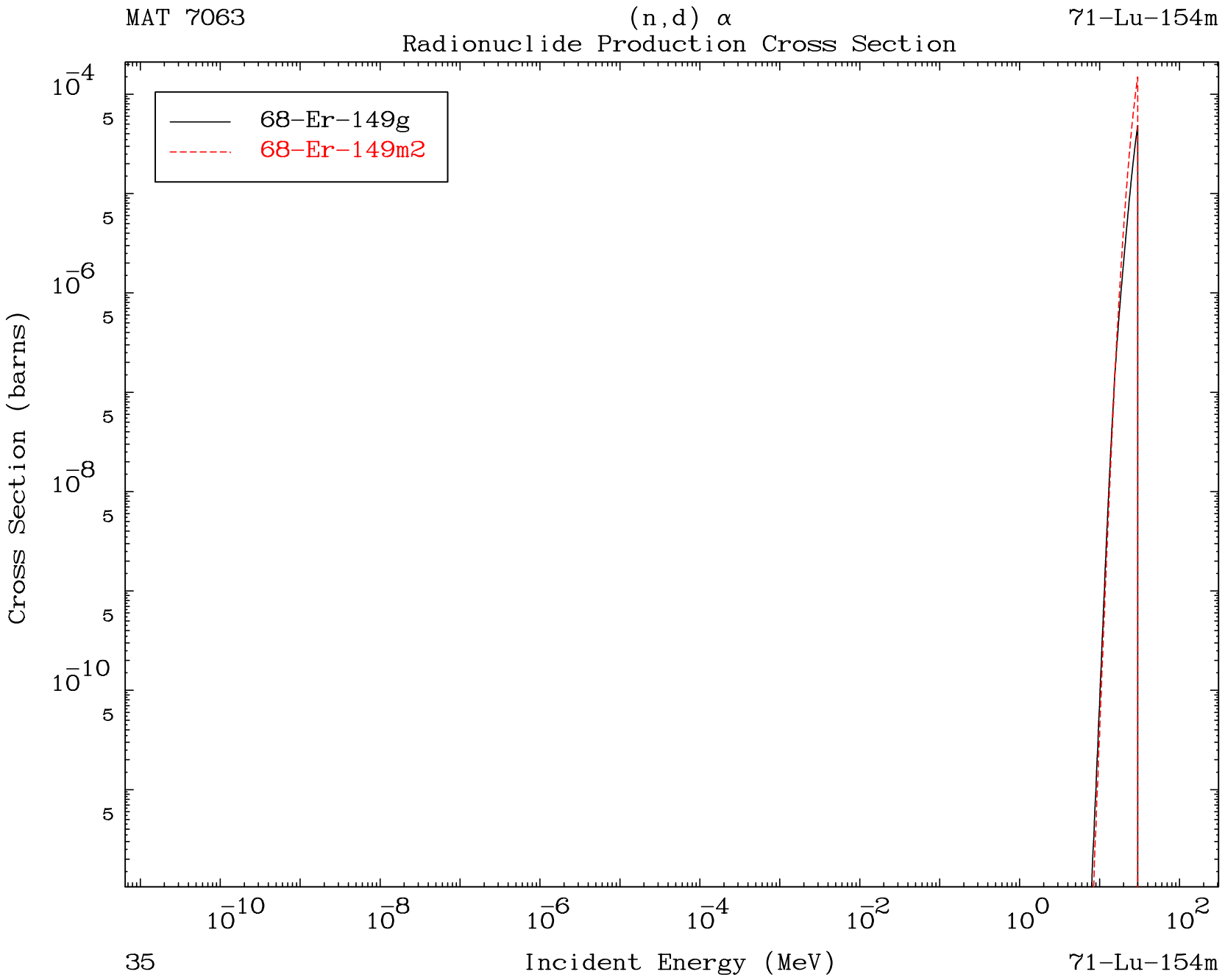

MAT 7063
(n,3α)
71-Lu-154m
Radionuclide Production Cross Section
65-Tb-143g
65-Tb-143m2
Cross Section (barns)
Incident Energy (MeV)
30
71-Lu-154m


MAT 7063
(n,2p)
71-Lu-154m
Radionuclide Production Cross Section
69-Tm-153g
69-Tm-153m1
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
31
Incident Energy (MeV)
71-Lu-154m


MAT 7063
(n,d) 2α
71-Lu-154m
Radionuclide Production Cross Section
66-Dy-145g
66-Dy-145m2
Cross Section (barns)
Incident Energy (MeV)
32
71-Lu-154m


MAT 7063
(n,p) d
71-Lu-154m
Radionuclide Production Cross Section
69-Tm-152g
69-Tm-152m2
Cross Section (barns)
Incident Energy (MeV)
33
71-Lu-154m


MAT 7063
(n,p) t
71-Lu-154m
Radionuclide Production Cross Section
69-Tm-151g
69-Tm-151m1
Cross Section (barns)
Incident Energy (MeV)
34
71-Lu-154m


MAT 7063
(n,d) α
71-Lu-154m
Radionuclide Production Cross Section
68-Er-149g
68-Er-149m2
Cross Section (barns)
Incident Energy (MeV)
35
71-Lu-154m