Program EVALPLOT
(Version 2017-1)
by
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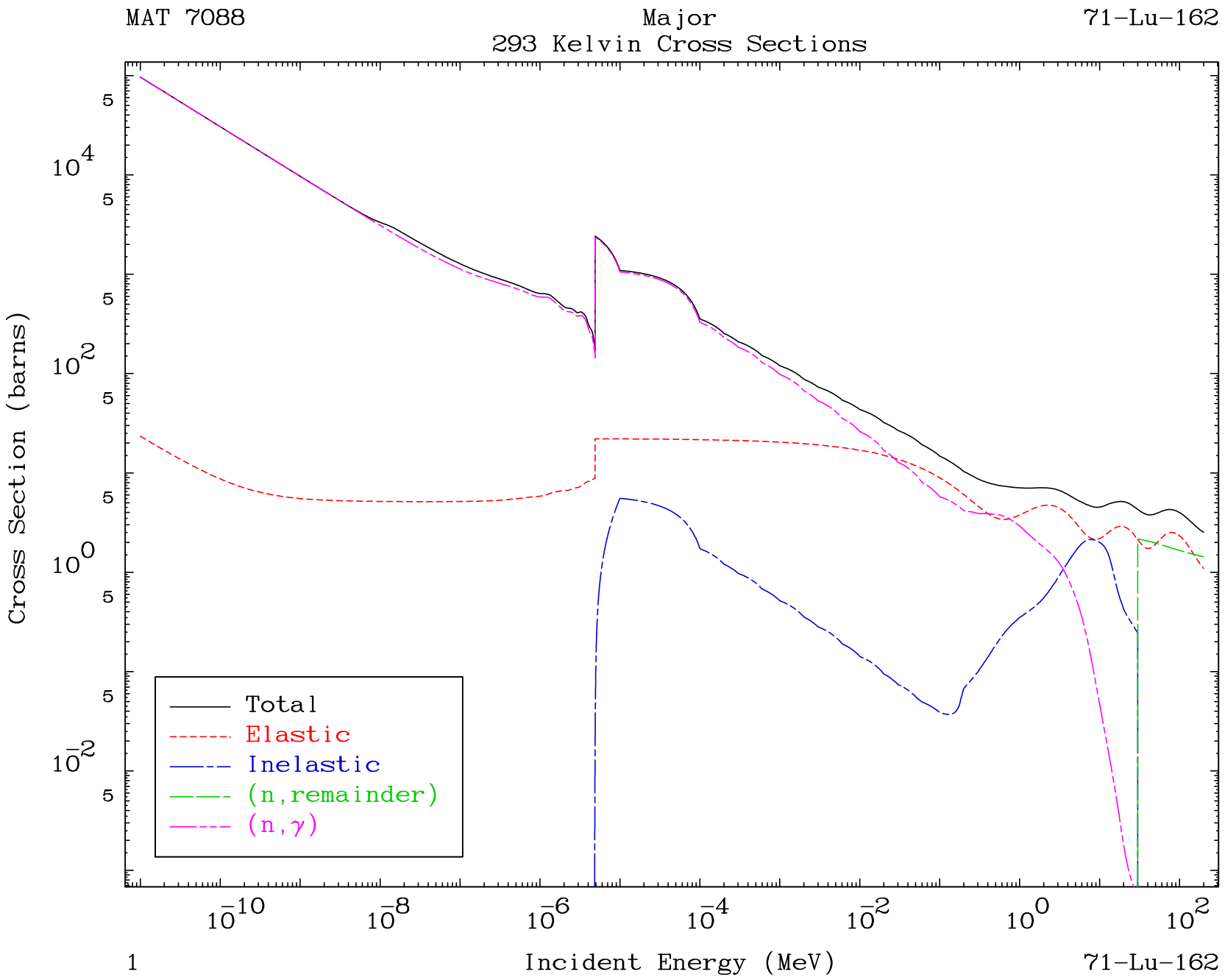
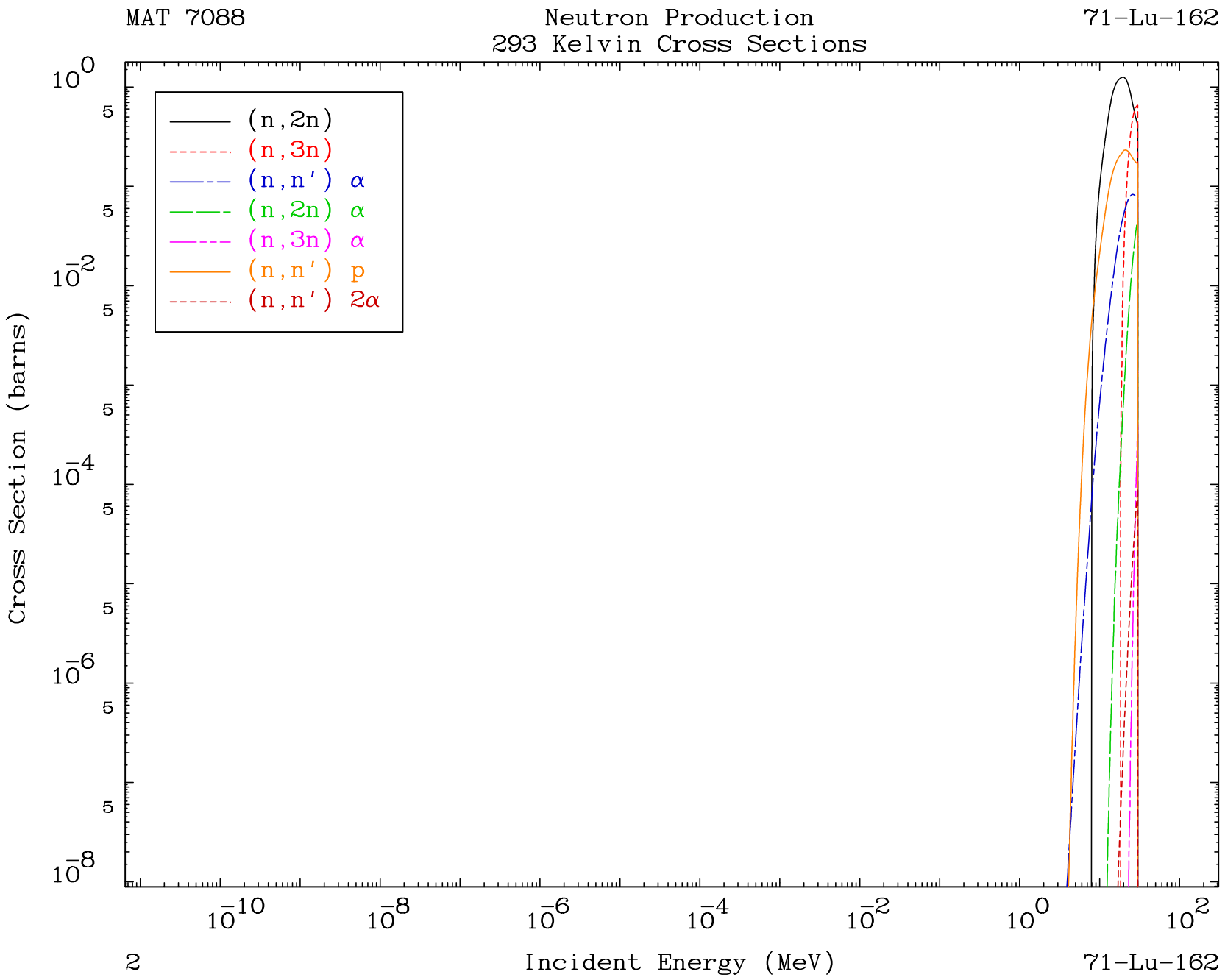
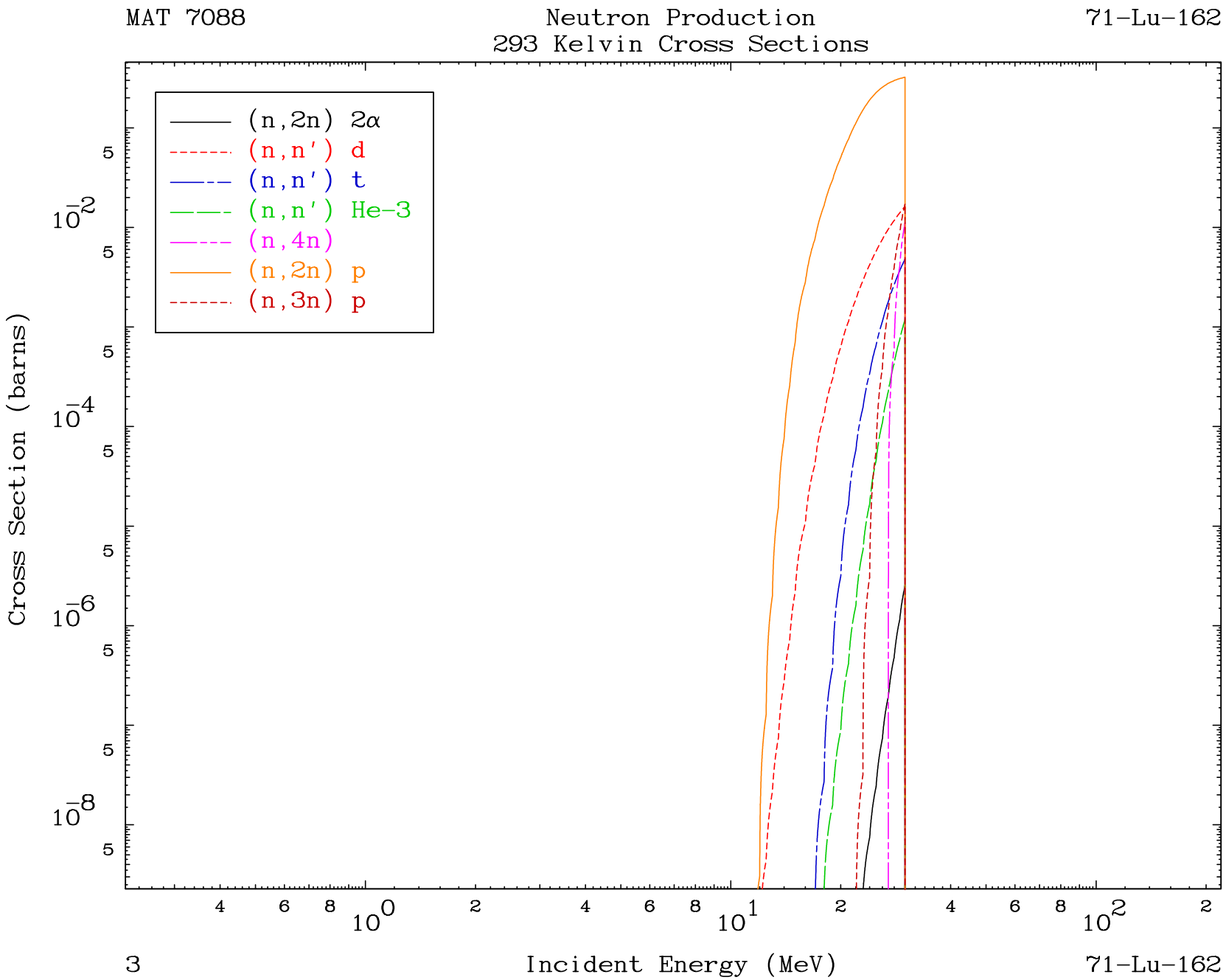
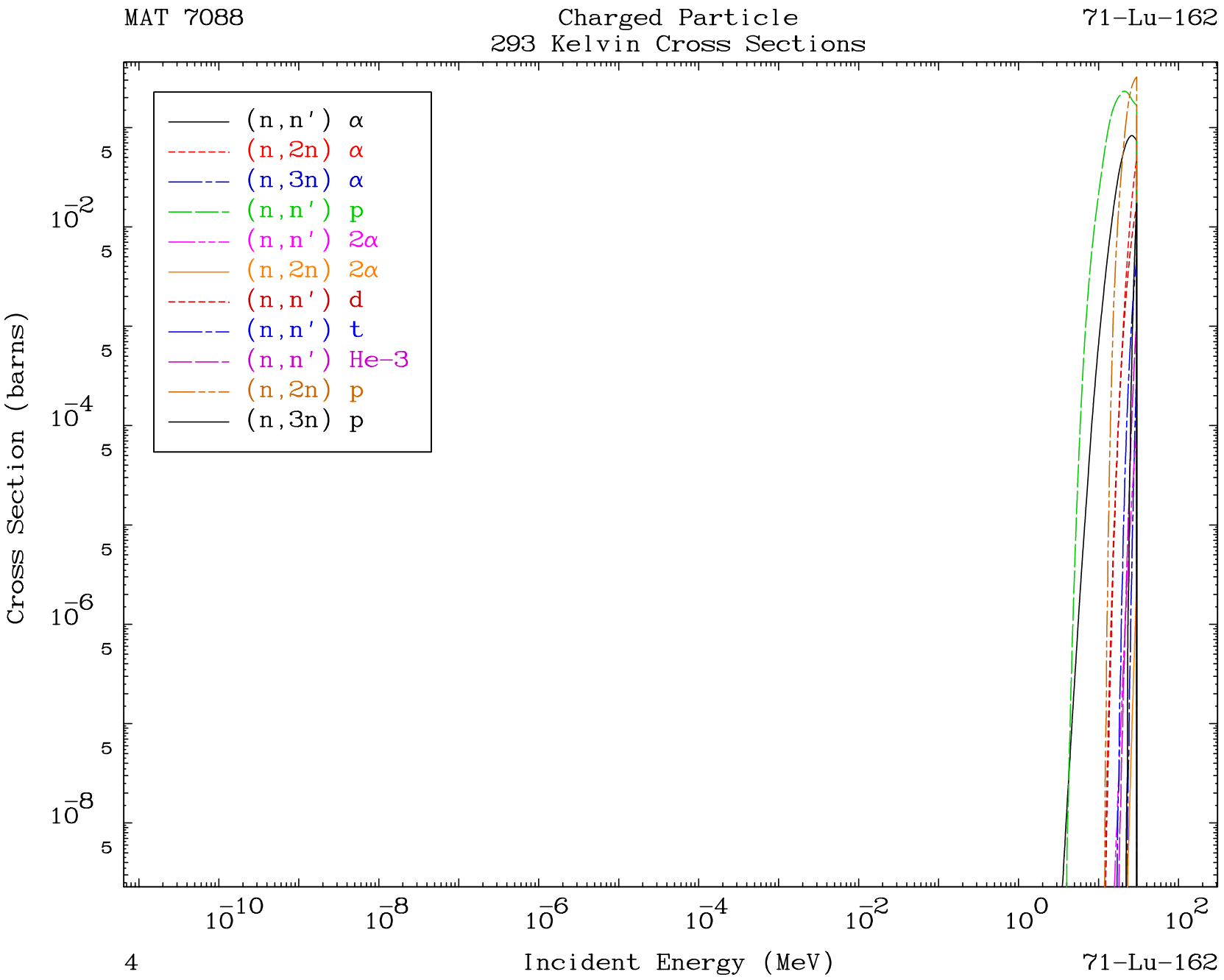
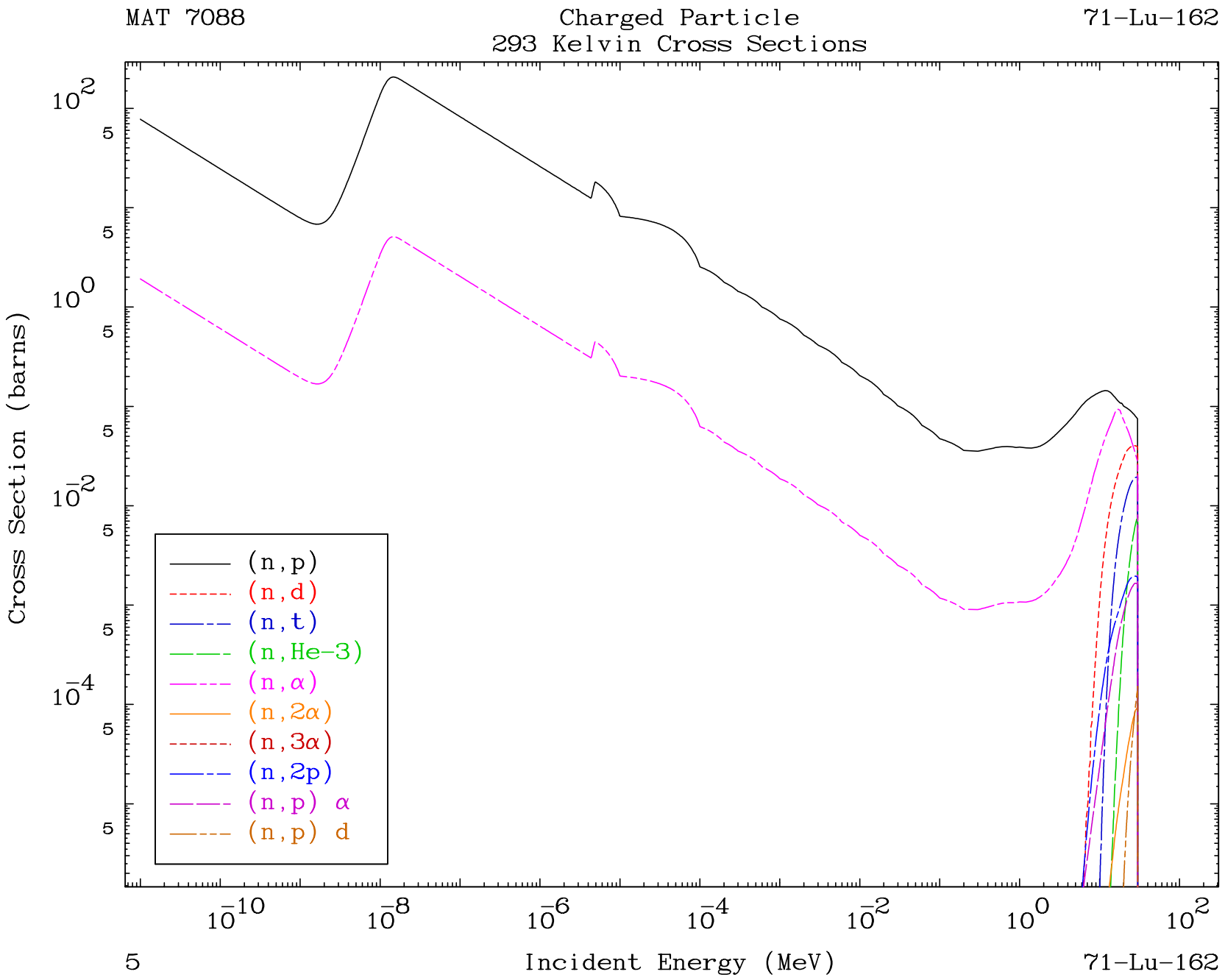
Press Mouse Button to Start

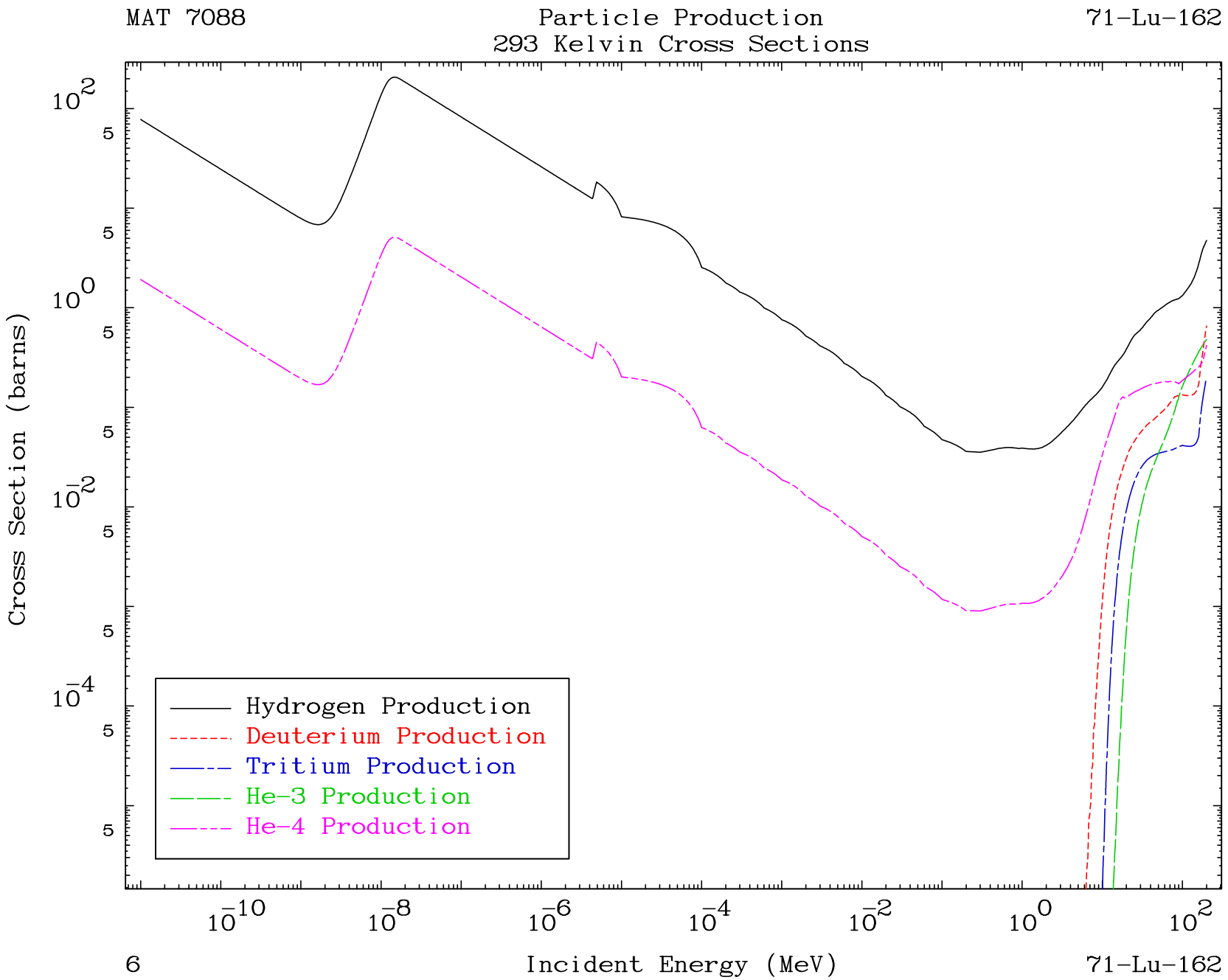

MAT 7088
Major
71-Lu-162
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
71-Lu-162

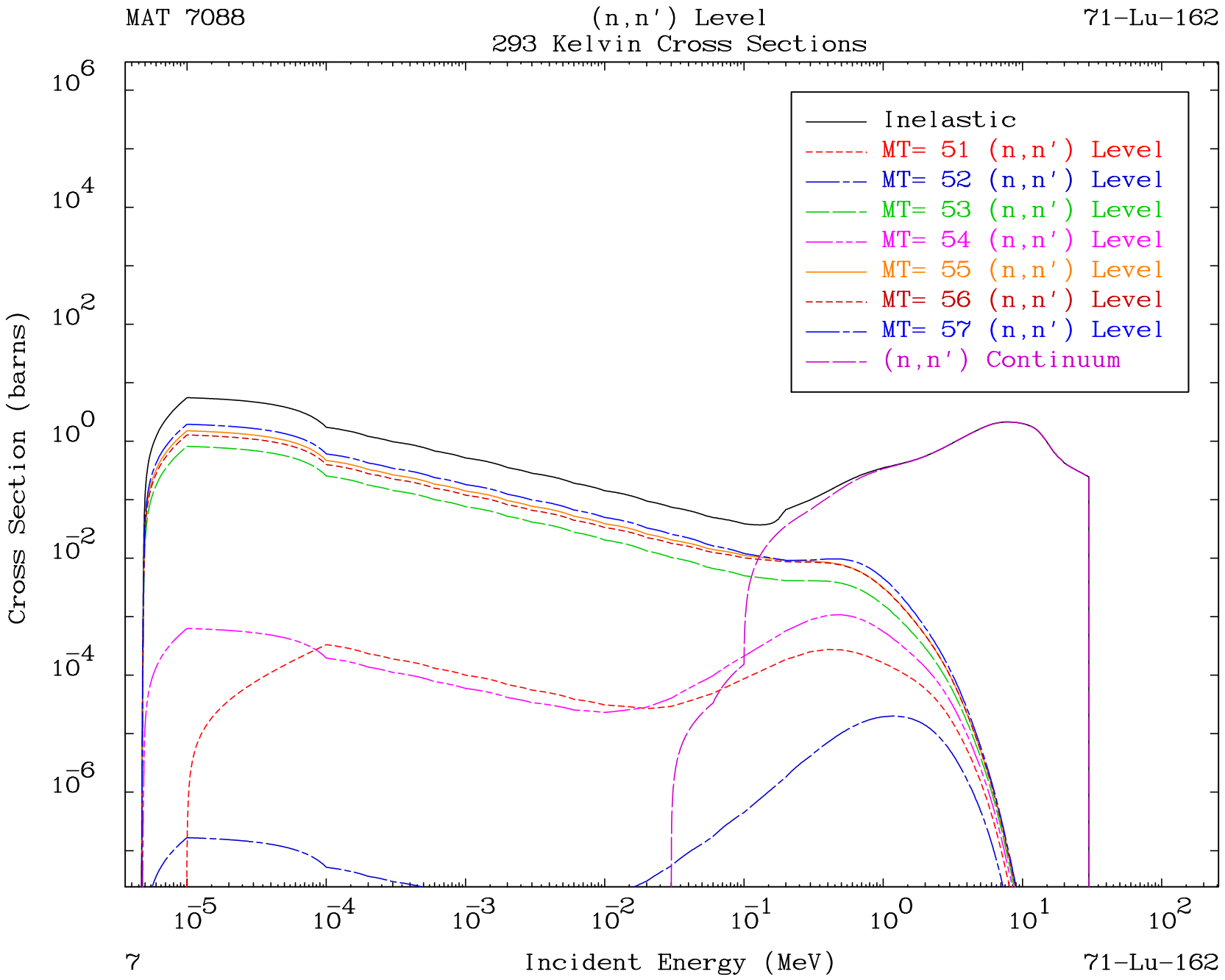

MAT 7088
Neutron Production
293 Kelvin Cross Sections
71-Lu-162
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
2
71-Lu-162

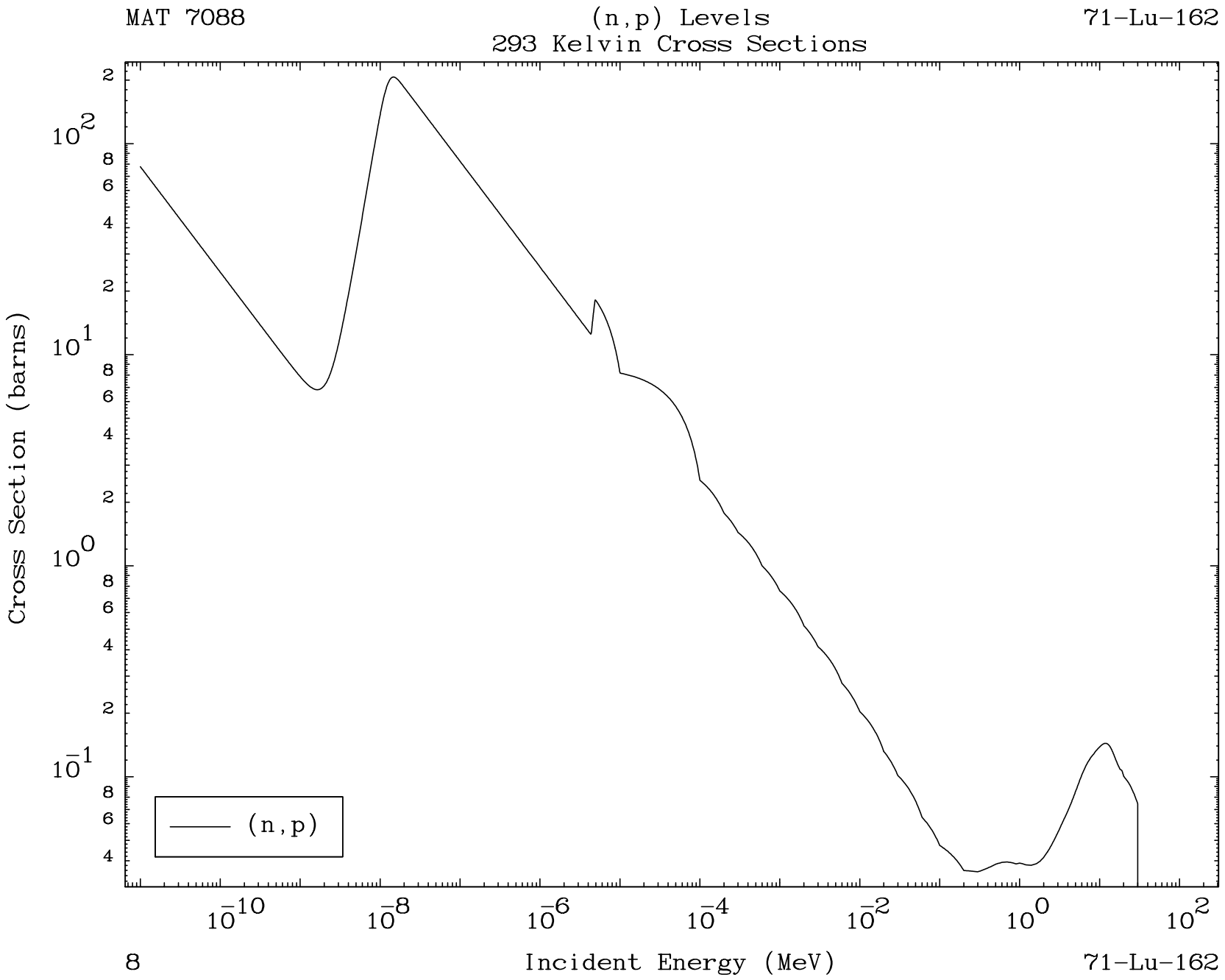

MAT 7088
Neutron Production
293 Kelvin Cross Sections
71-Lu-162
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
71-Lu-162

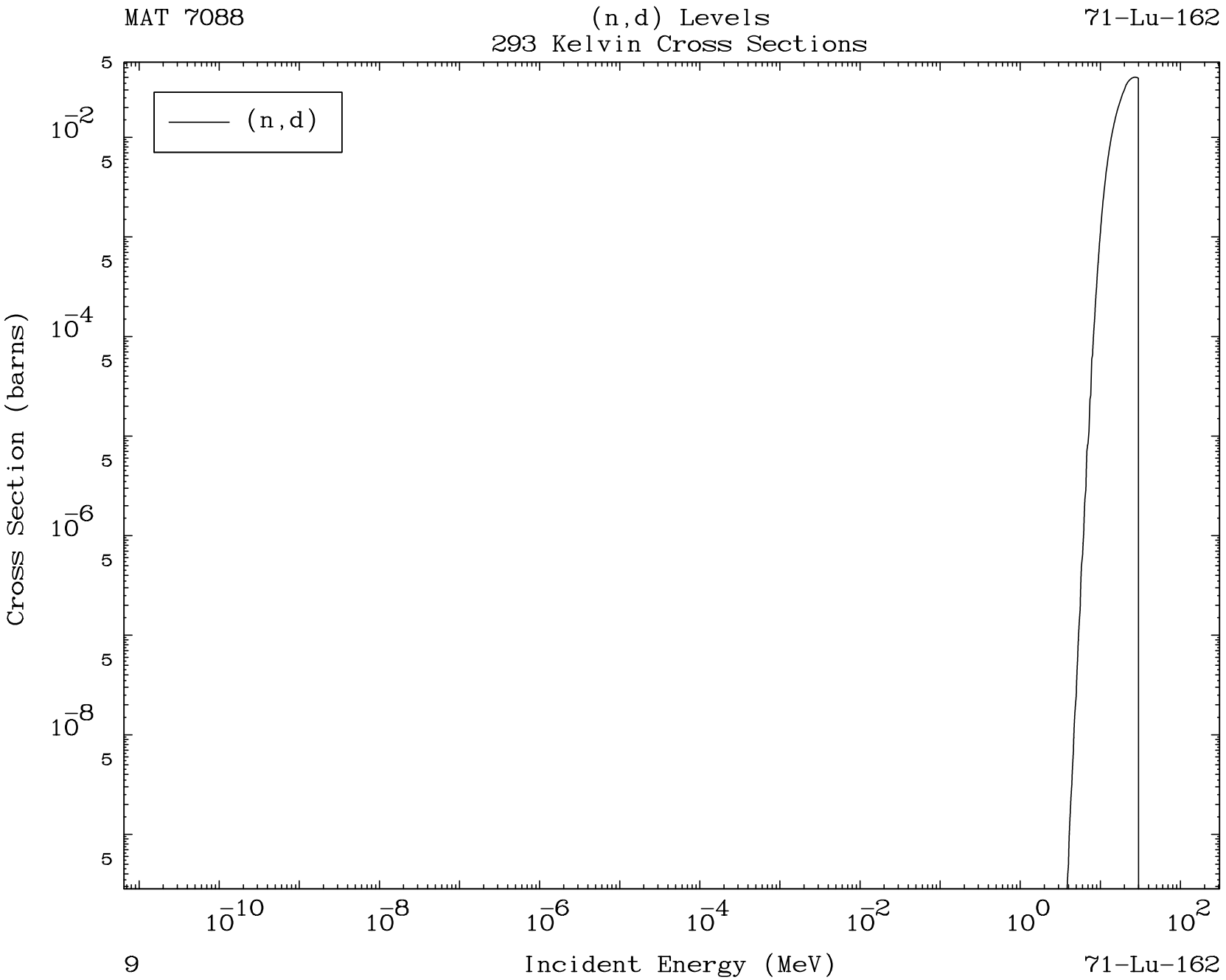

MAT 7088
Charged Particle
293 Kelvin Cross Sections
71-Lu-162
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
71-Lu-162

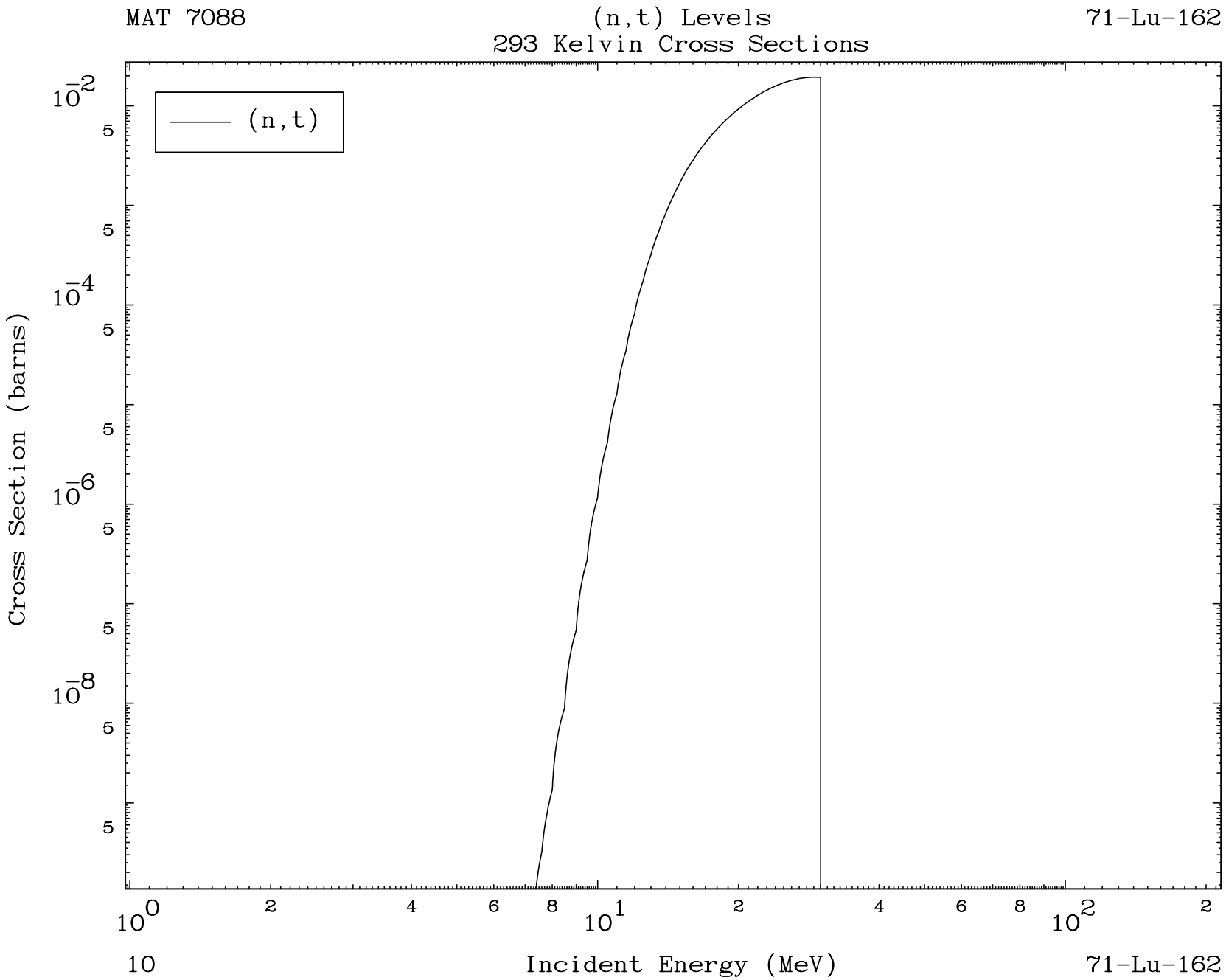

MAT 7088
Charged Particle
293 Kelvin Cross Sections
71-Lu-162
Cross Section (barns)
Incident Energy (MeV)
71-Lu-162
5
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d

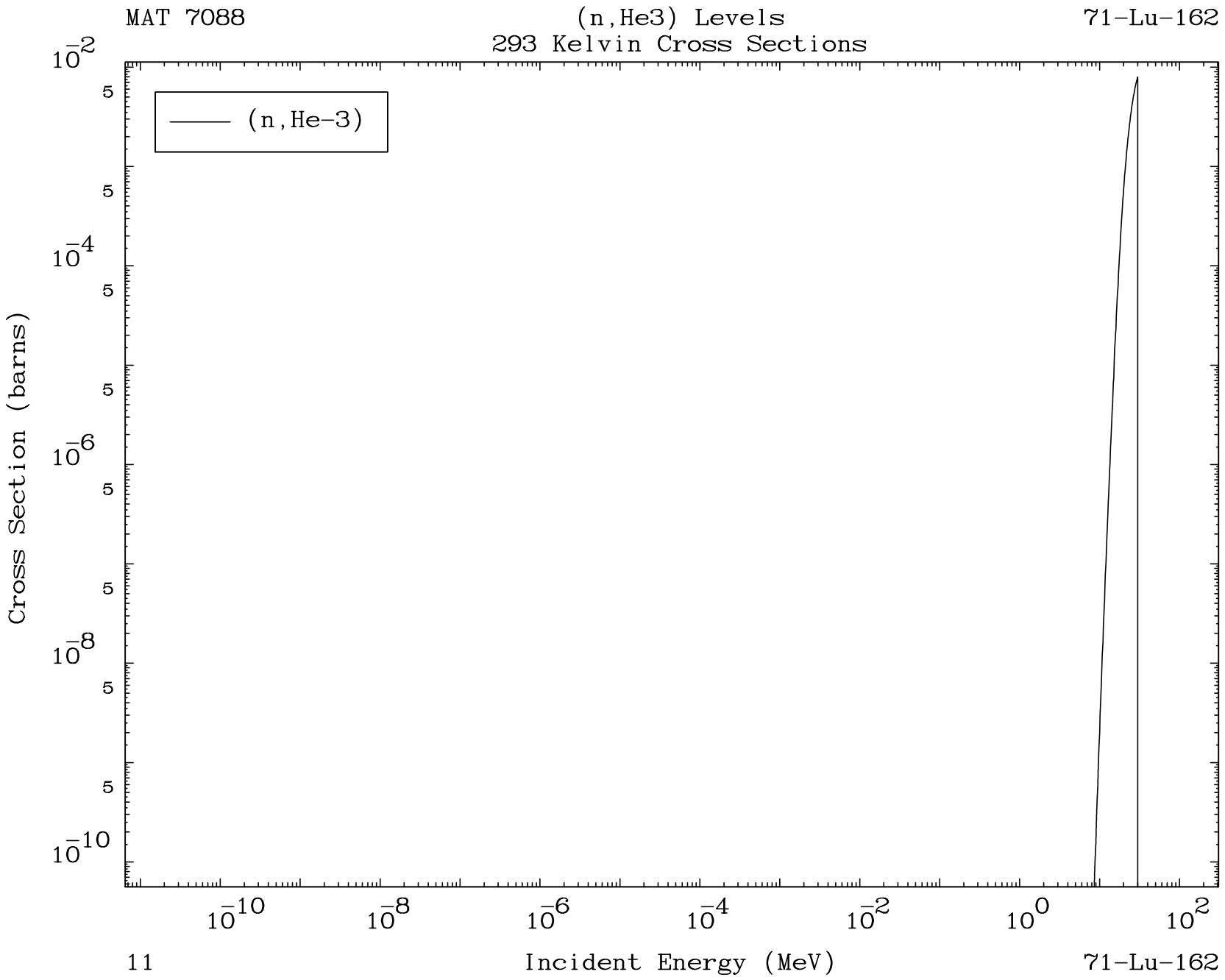

MAT 7088
Particle Production
293 Kelvin Cross Sections
71-Lu-162
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
6
71-Lu-162

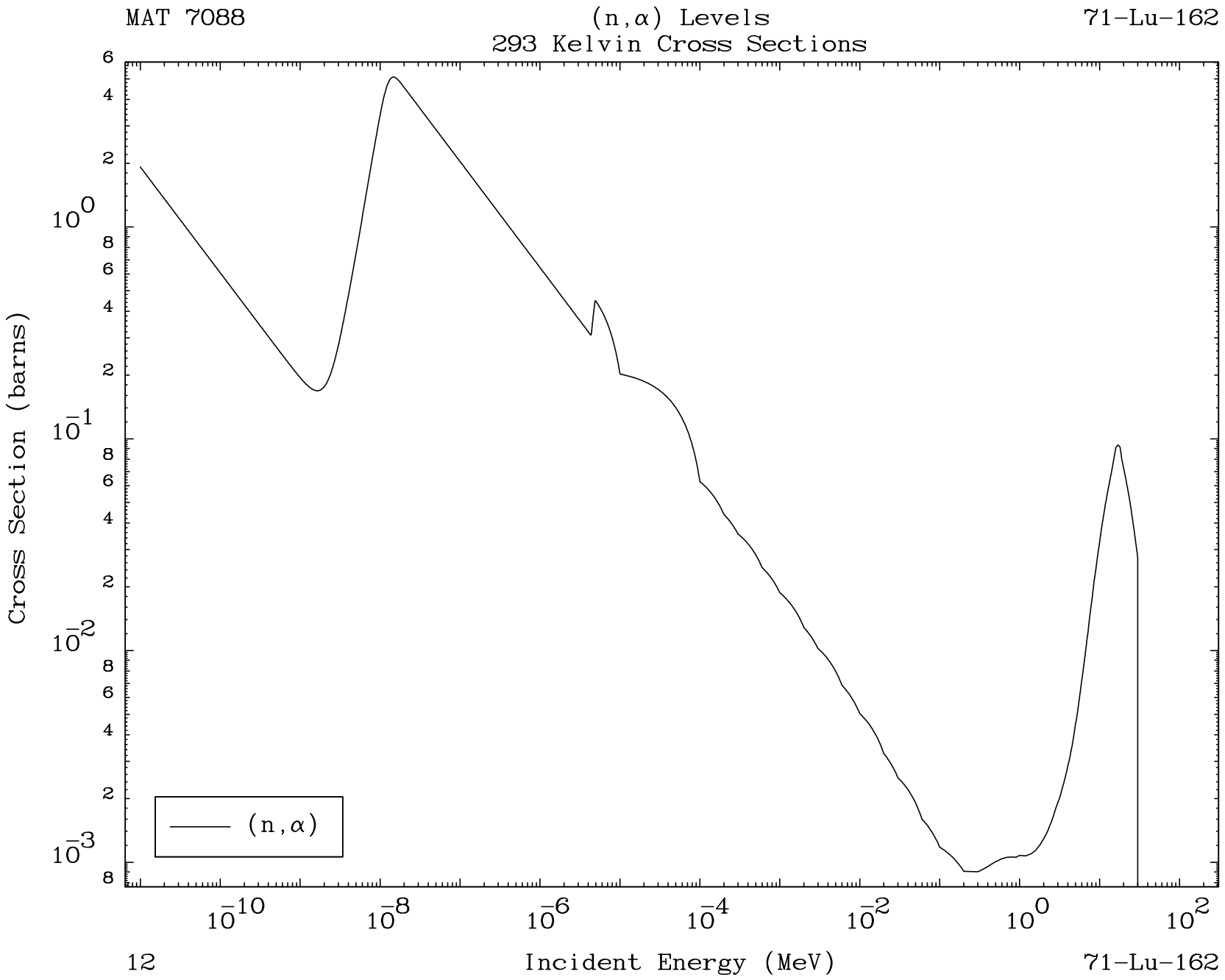

MAT 7088
(n,n') Level
293 Kelvin Cross Sections
71-Lu-162
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
7
71-Lu-162

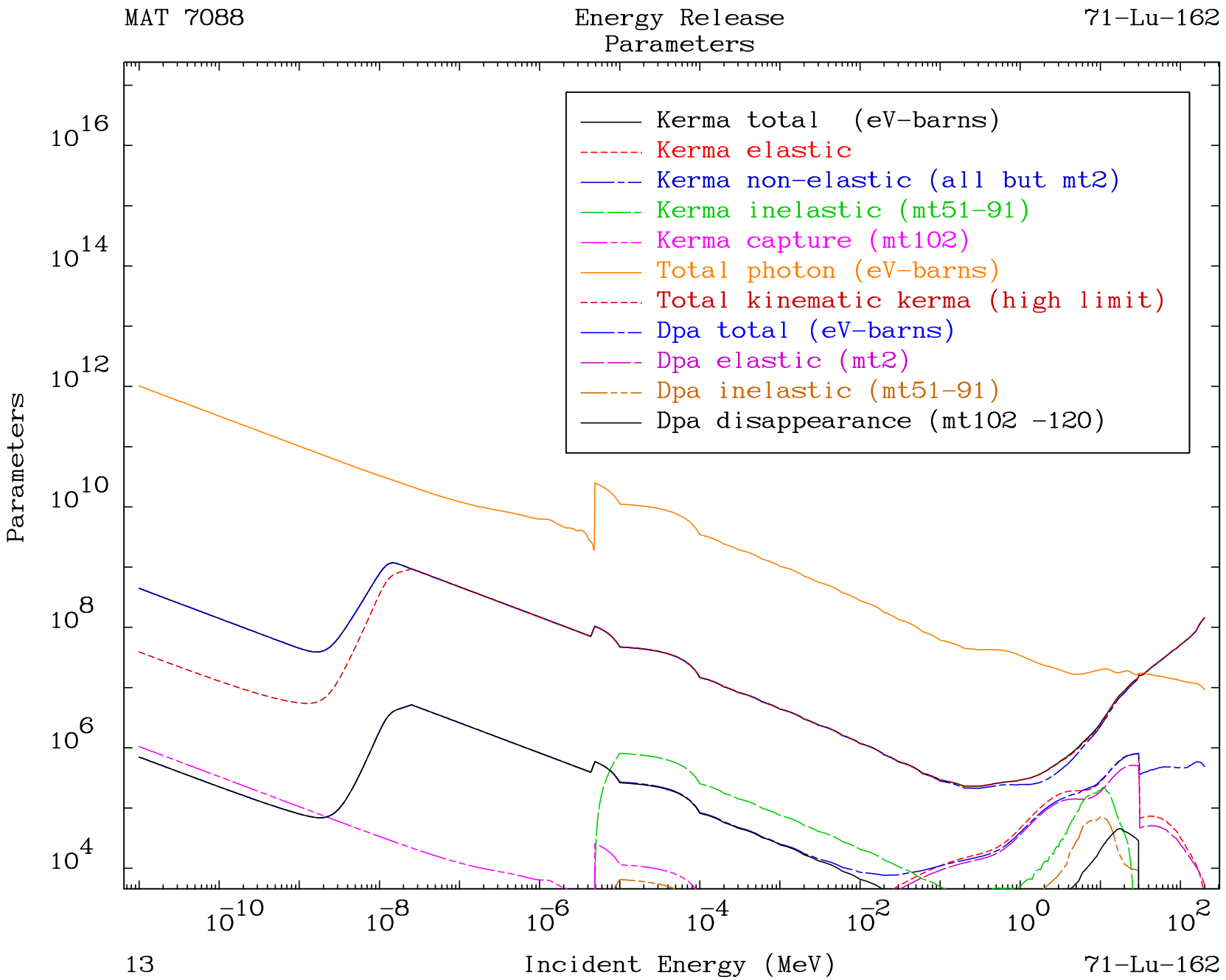

MAT 7088
(n,p) Levels
71-Lu-162
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
(n,p)
71-Lu-162

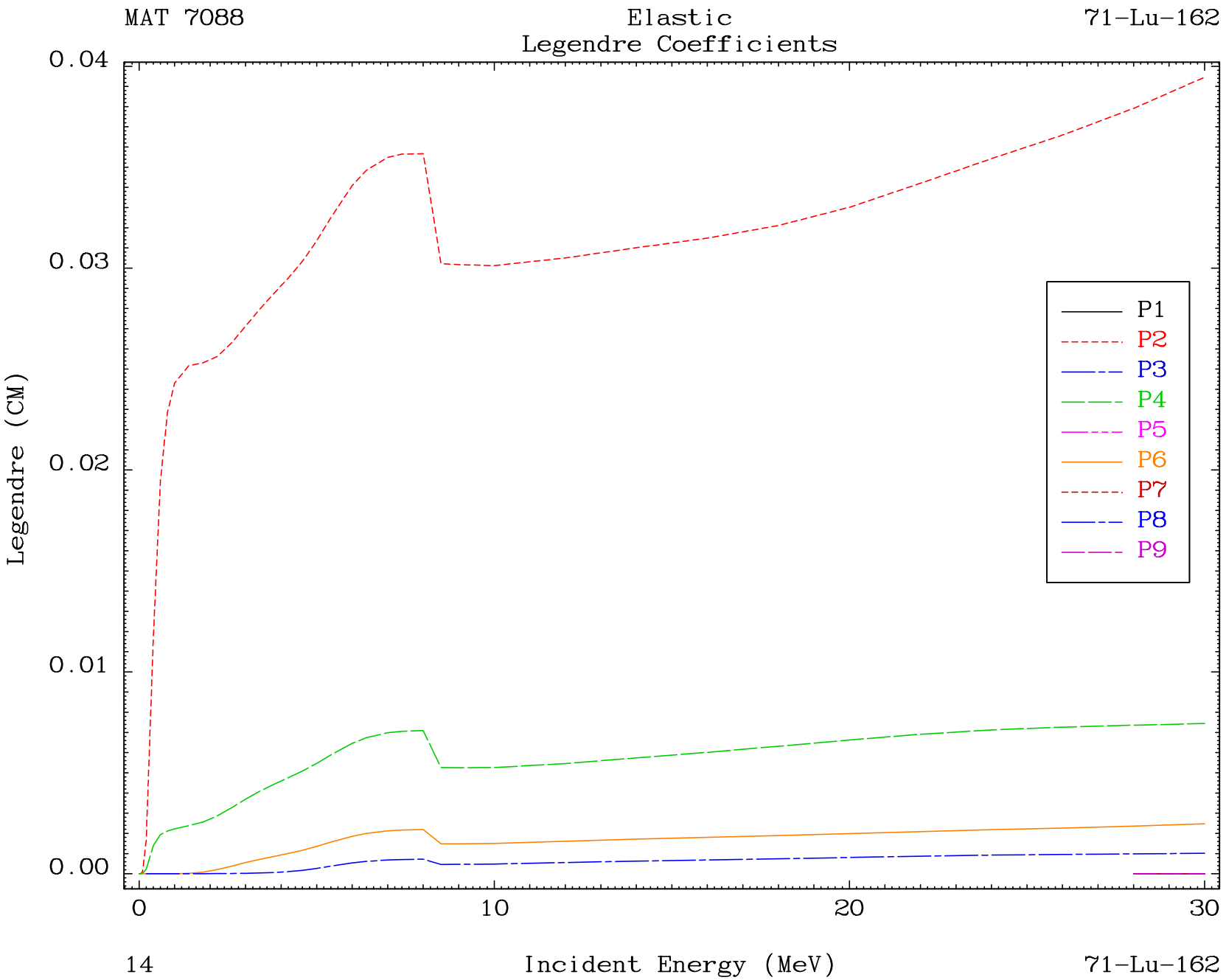

MAT 7088
(n,d) Levels
71-Lu-162
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
71-Lu-162

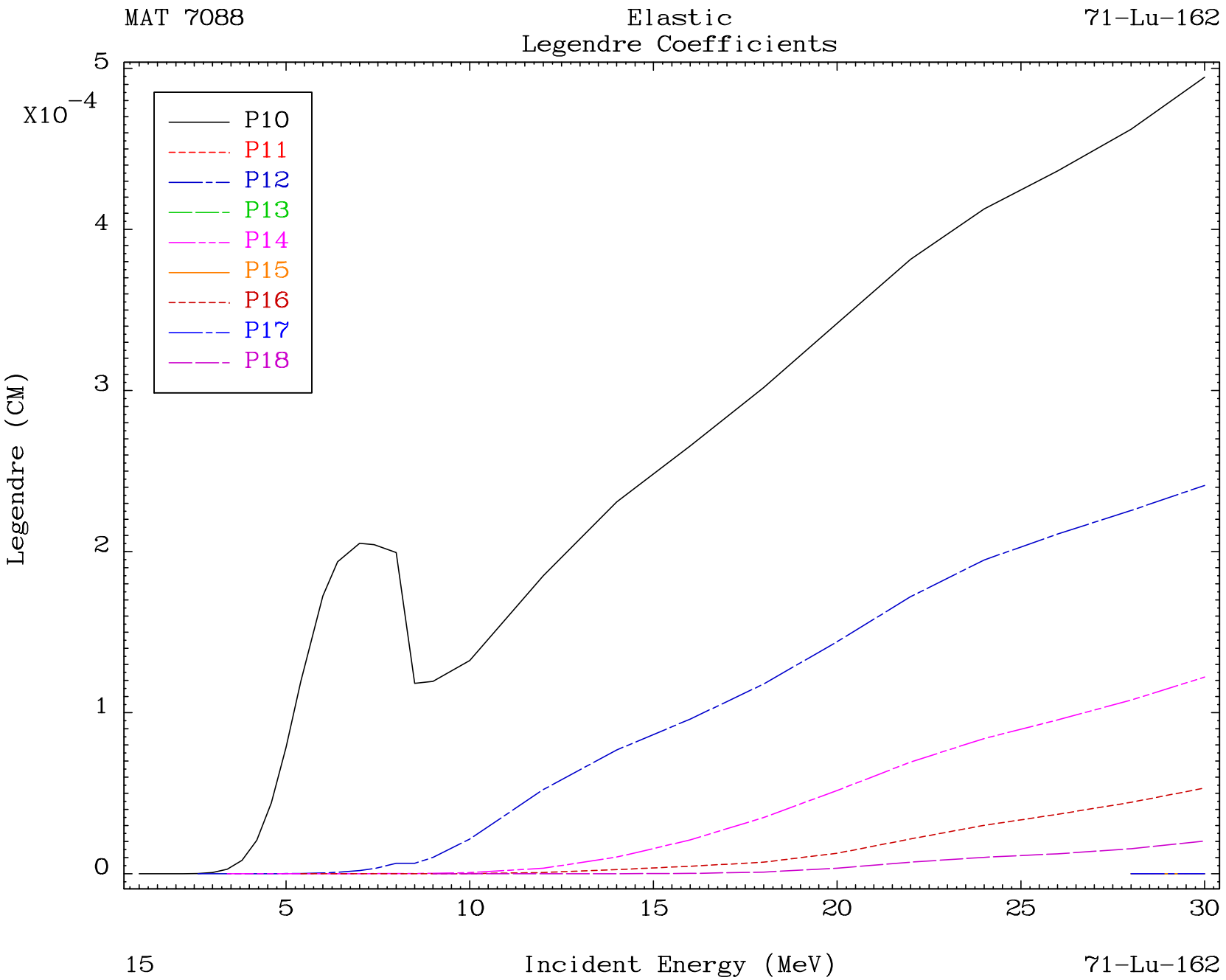

MAT 7088
(n,t) Levels
71-Lu-162
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
71-Lu-162

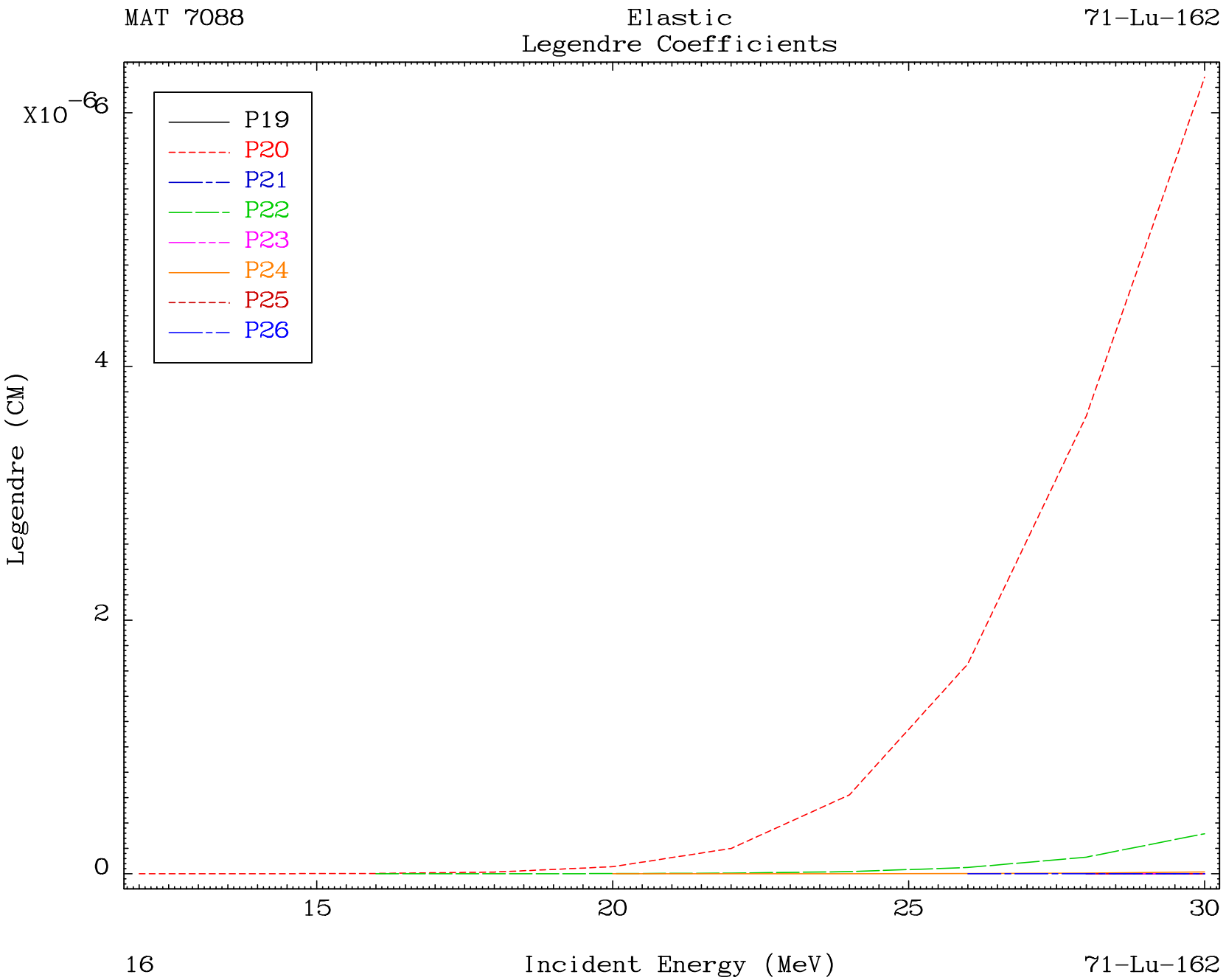

MAT 7088
(n,He3) Levels
71-Lu-162
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
11
71-Lu-162

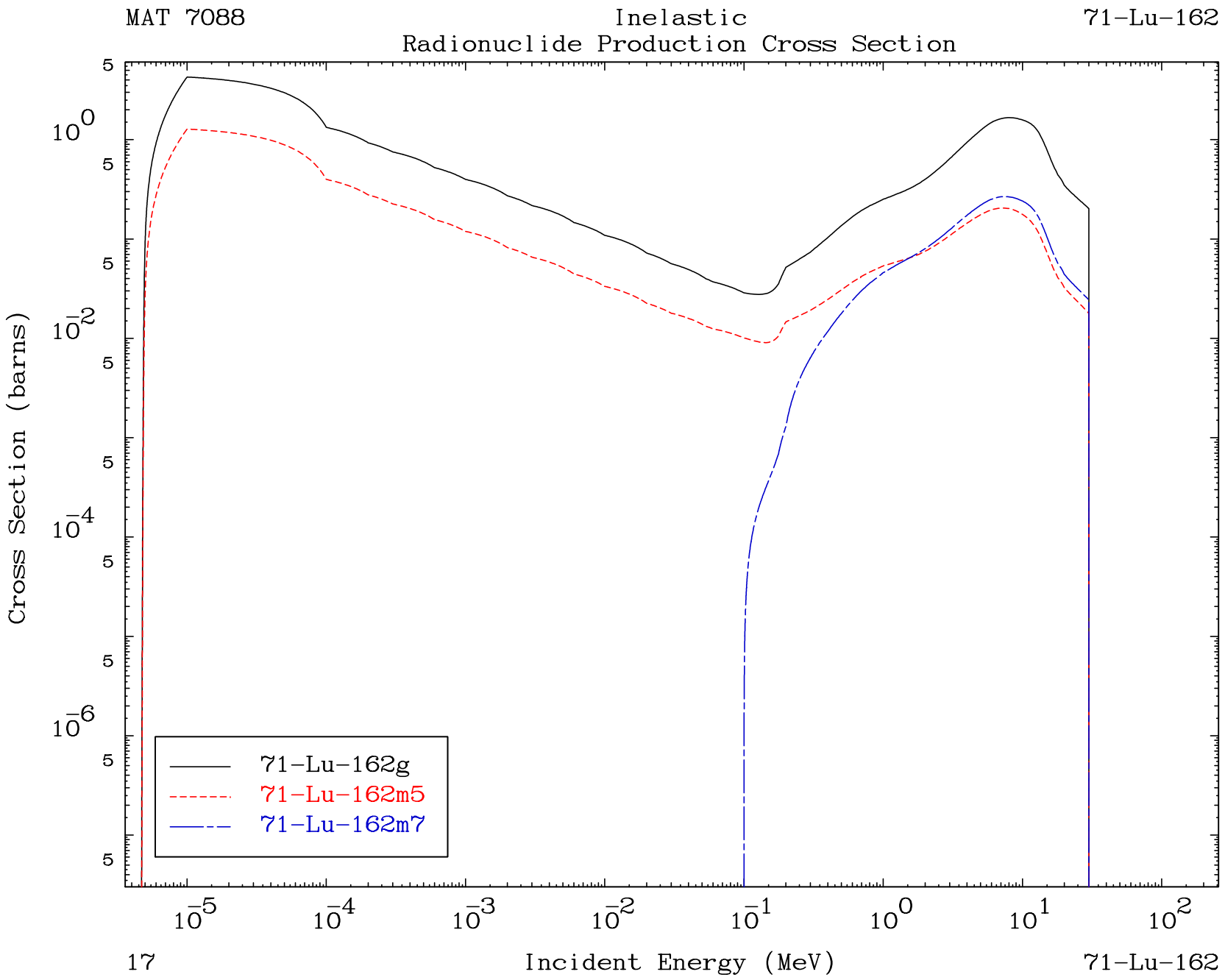

MAT 7088
(n,α) Levels
71-Lu-162
293 Kelvin Cross Sections
Cross Section (barns)
(n,α)
Incident Energy (MeV)
12
71-Lu-162

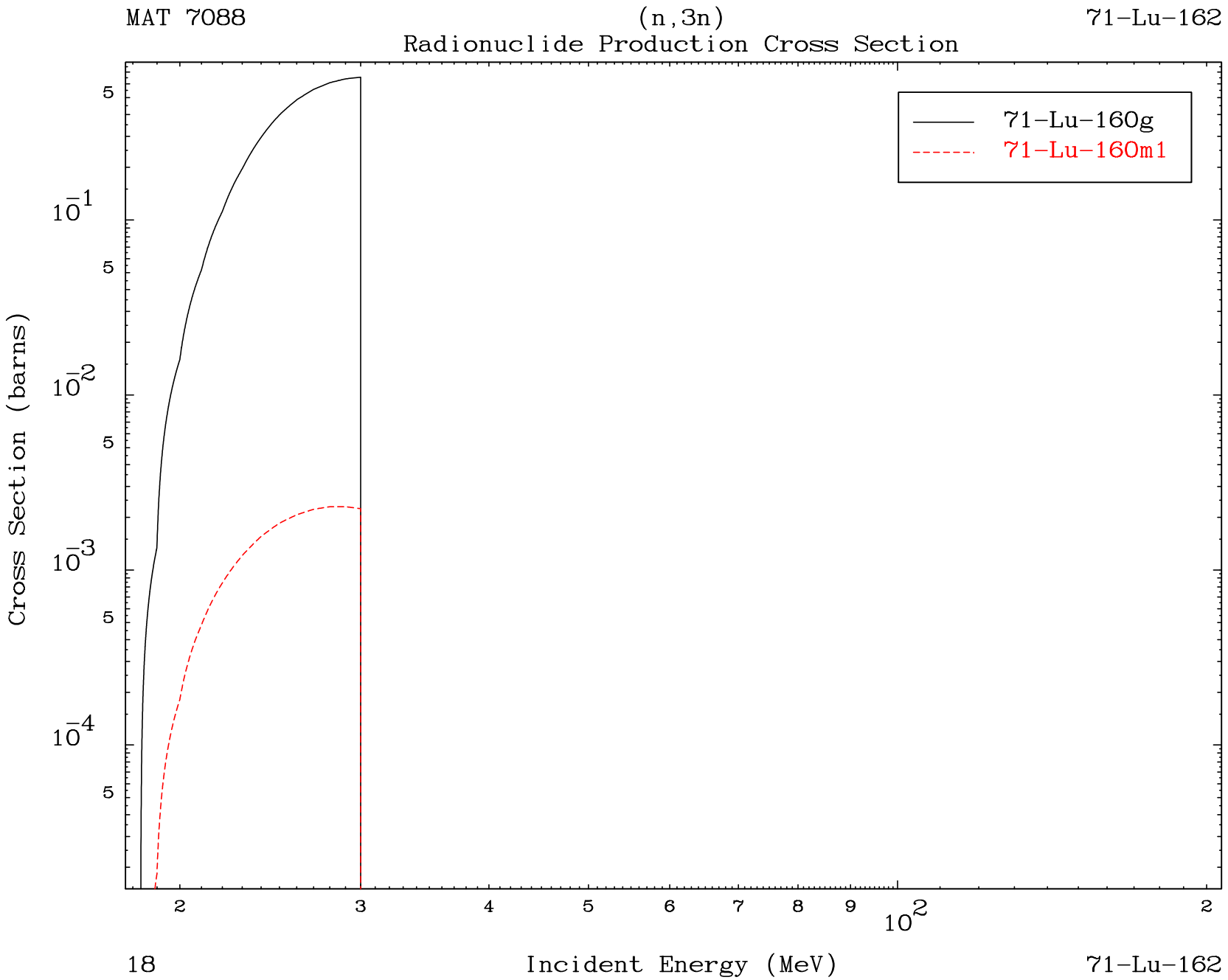

MAT 7088
Energy Release
Parameters
71-Lu-162
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{16}
10^{14}
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
13
Incident Energy (MeV)
71-Lu-162

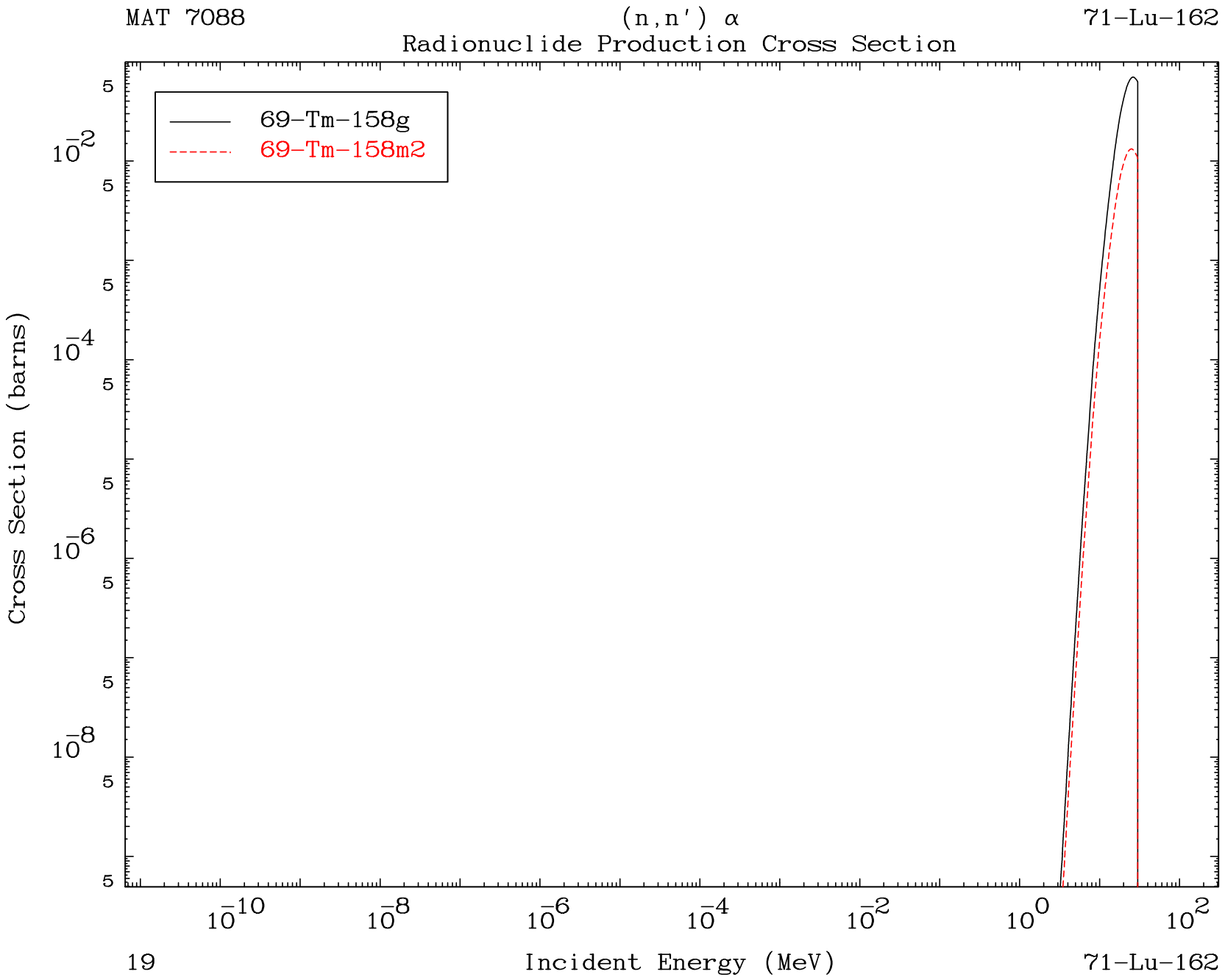

MAT 7088
Elastic
Legendre Coefficients
71-Lu-162
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
14
Incident Energy (MeV)
71-Lu-162

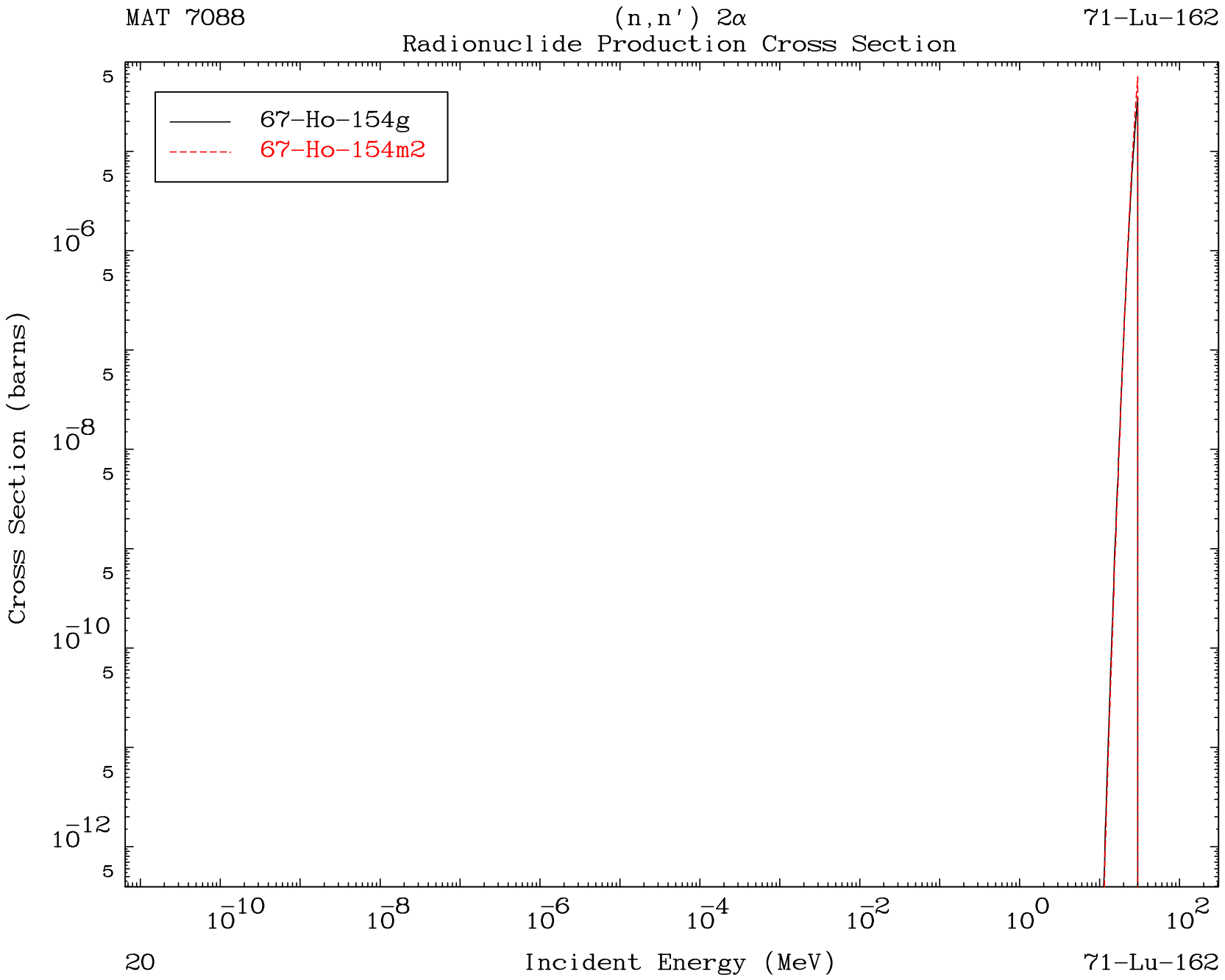

MAT 7088
Elastic
Legendre Coefficients
71-Lu-162
X10^{-4}
5
4
3
2
1
0
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
5
10
15
20
25
30
15
Incident Energy (MeV)
71-Lu-162

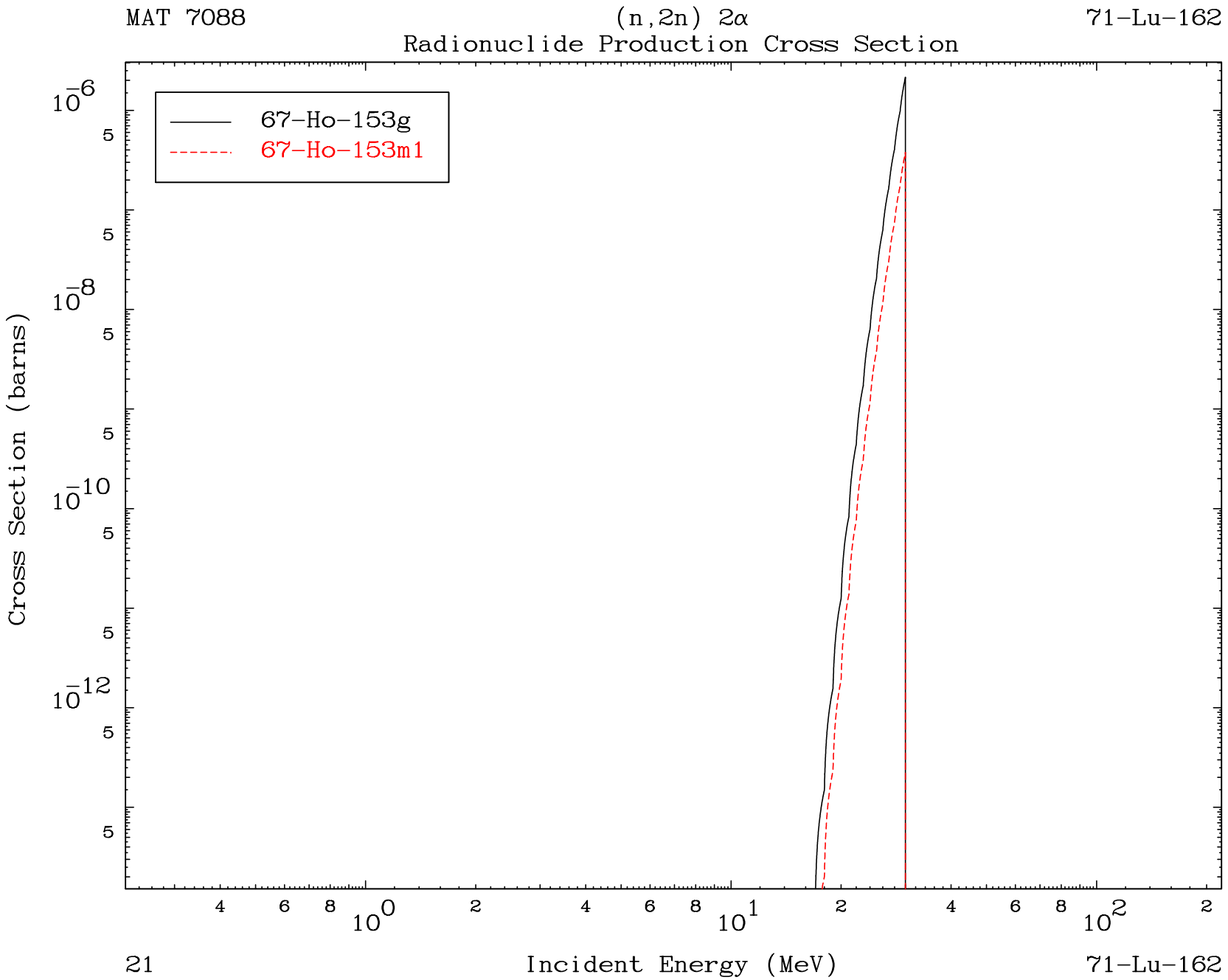

MAT 7088
Elastic
Legendre Coefficients
71-Lu-162
X10 -6
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
15
20
25
30
16
Incident Energy (MeV)
71-Lu-162

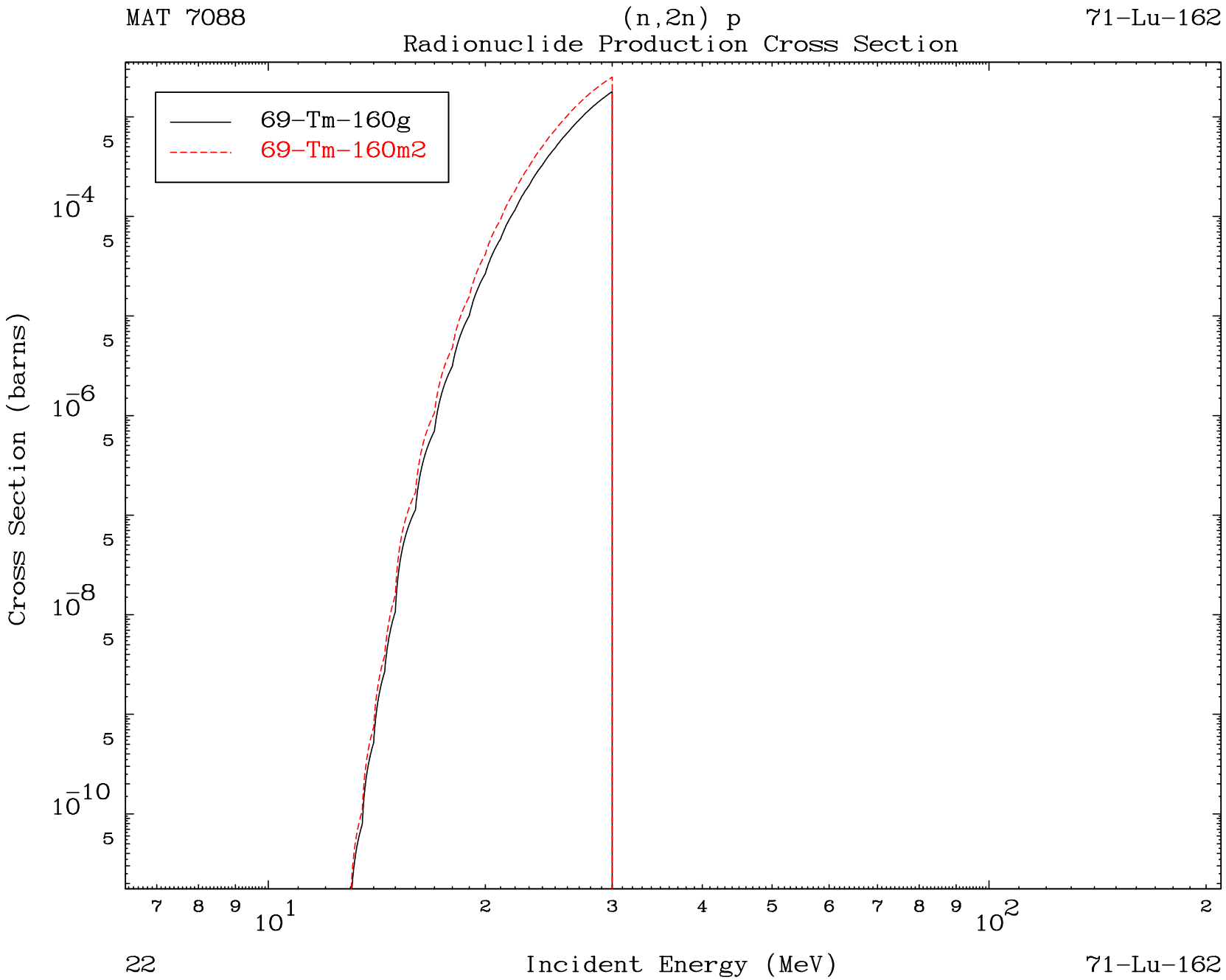

MAT 7088
Inelastic
71-Lu-162
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
71-Lu-162g
71-Lu-162m5
71-Lu-162m7
17
71-Lu-162

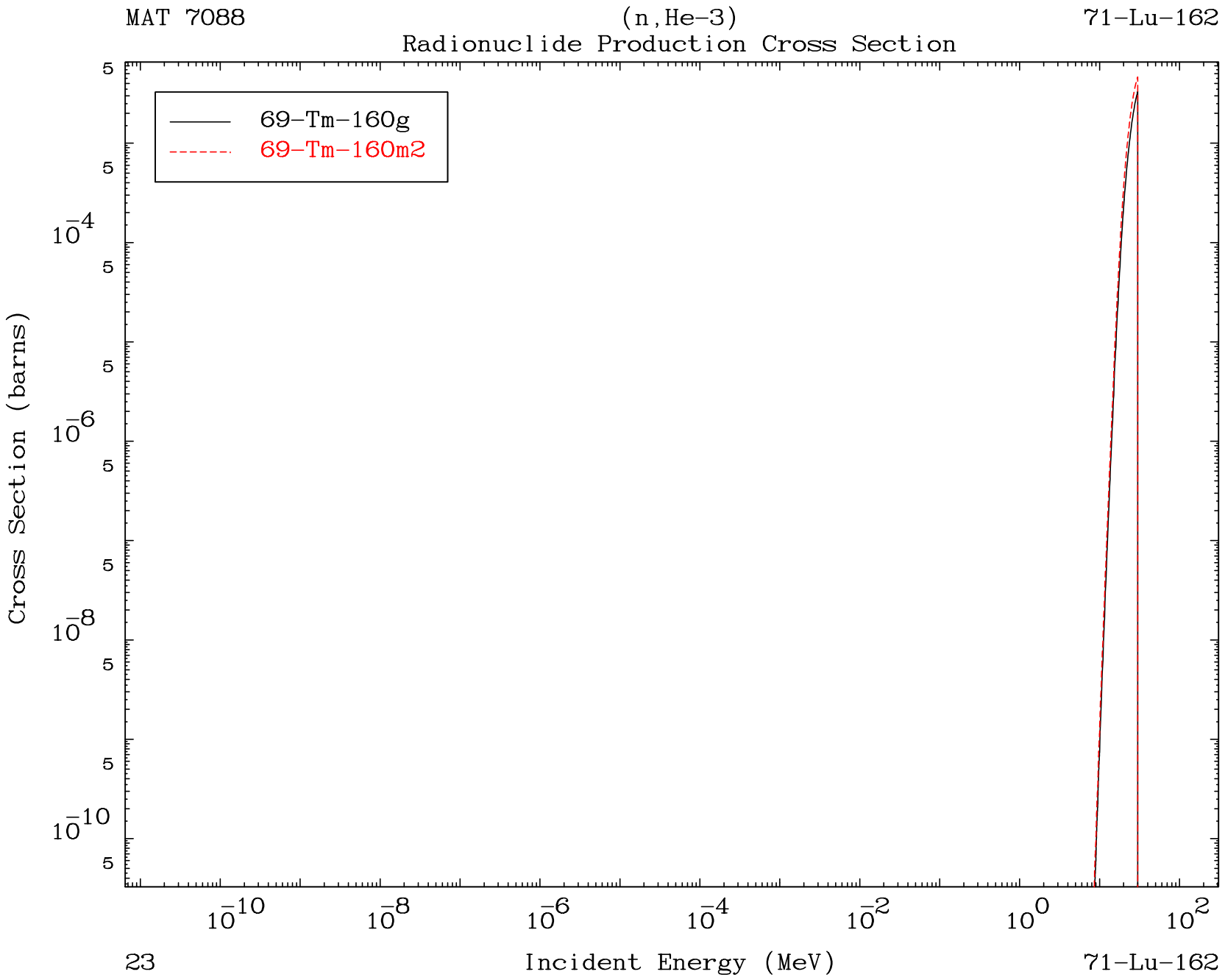

MAT 7088
(n,3n)
71-Lu-162
Radionuclide Production Cross Section
71-Lu-160g
71-Lu-160m1
Cross Section (barns)
10-1
10-2
10-3
10-4
5
2
3
4
5
6
7
8
9
10+2
Incident Energy (MeV)
18
71-Lu-162

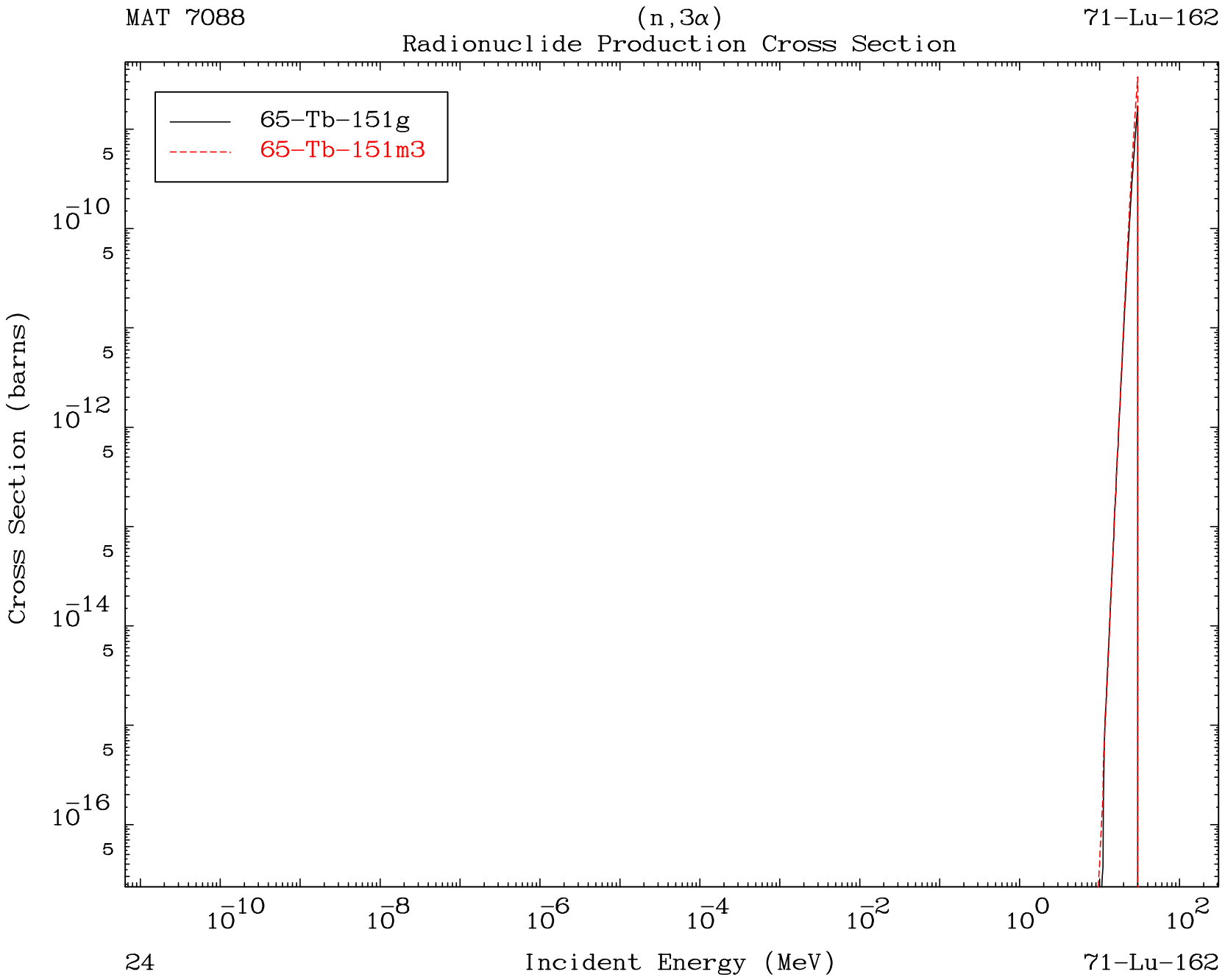

MAT 7088
(n,n') α
71-Lu-162
Radionuclide Production Cross Section
69-Tm-158g
69-Tm-158m2
Cross Section (barns)
Incident Energy (MeV)
19
71-Lu-162

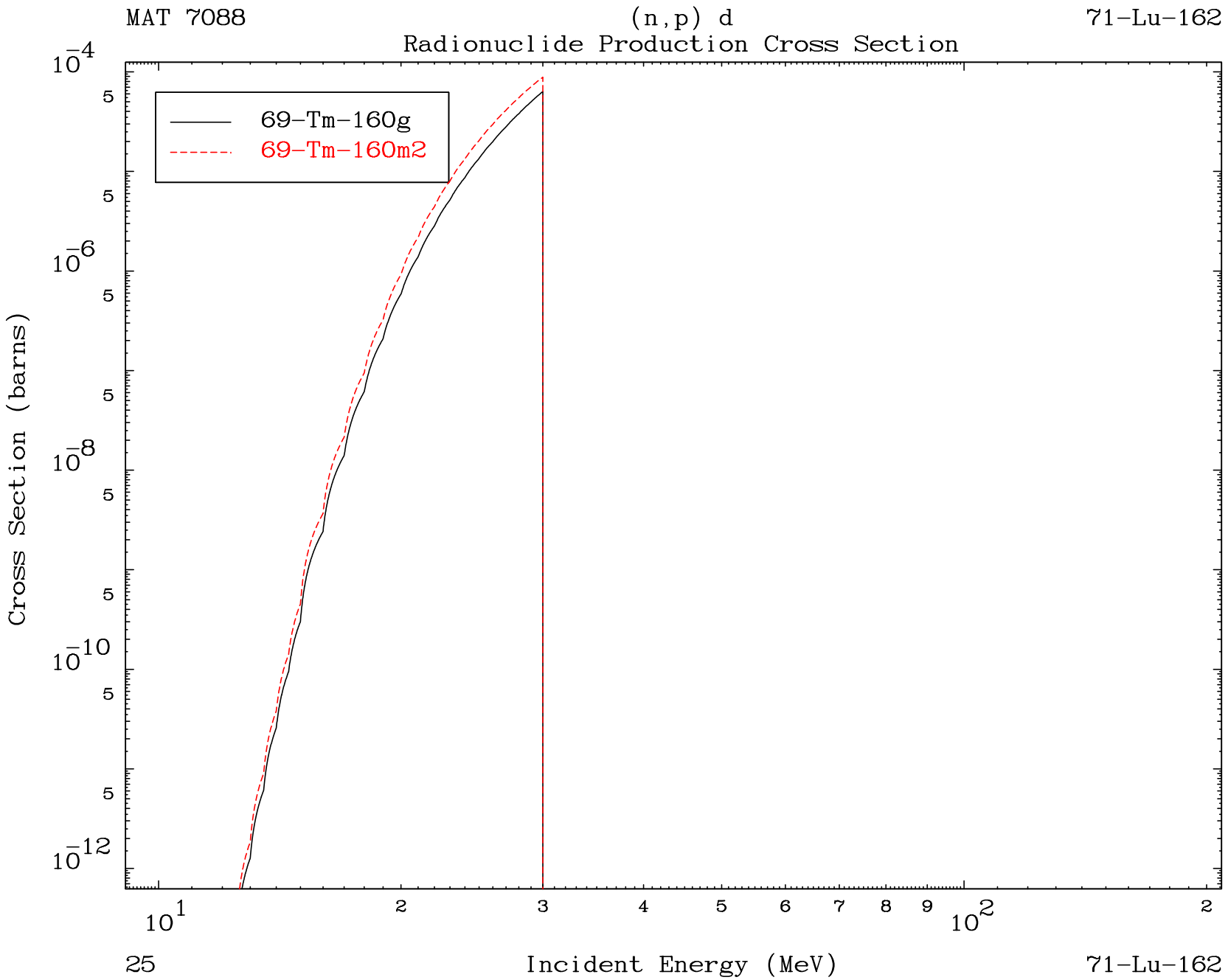

MAT 7088
(n,n') 2α
71-Lu-162
Radionuclide Production Cross Section
67-Ho-154g
67-Ho-154m2
Cross Section (barns)
Incident Energy (MeV)
20
71-Lu-162


MAT 7088
(n,2n) 2α
71-Lu-162
Radionuclide Production Cross Section
67-Ho-153g
67-Ho-153m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
100
101
102
2
4
6
8
21
Incident Energy (MeV)
71-Lu-162


MAT 7088
(n,2n) p
71-Lu-162
Radionuclide Production Cross Section
69-Tm-160g
69-Tm-160m2
Cross Section (barns)
10-4
10-6
10-8
10-10
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
22
Incident Energy (MeV)
71-Lu-162


MAT 7088
(n,He-3)
71-Lu-162
Radionuclide Production Cross Section
69-Tm-160g
69-Tm-160m2
Cross Section (barns)
Incident Energy (MeV)
23
71-Lu-162


MAT 7088
(n,3α)
71-Lu-162
Radionuclide Production Cross Section
65-Tb-151g
65-Tb-151m3
Cross Section (barns)
Incident Energy (MeV)
24
71-Lu-162


MAT 7088
(n,p) d
71-Lu-162
Radionuclide Production Cross Section
69-Tm-160g
69-Tm-160m2
Cross Section (barns)
Incident Energy (MeV)
25
71-Lu-162