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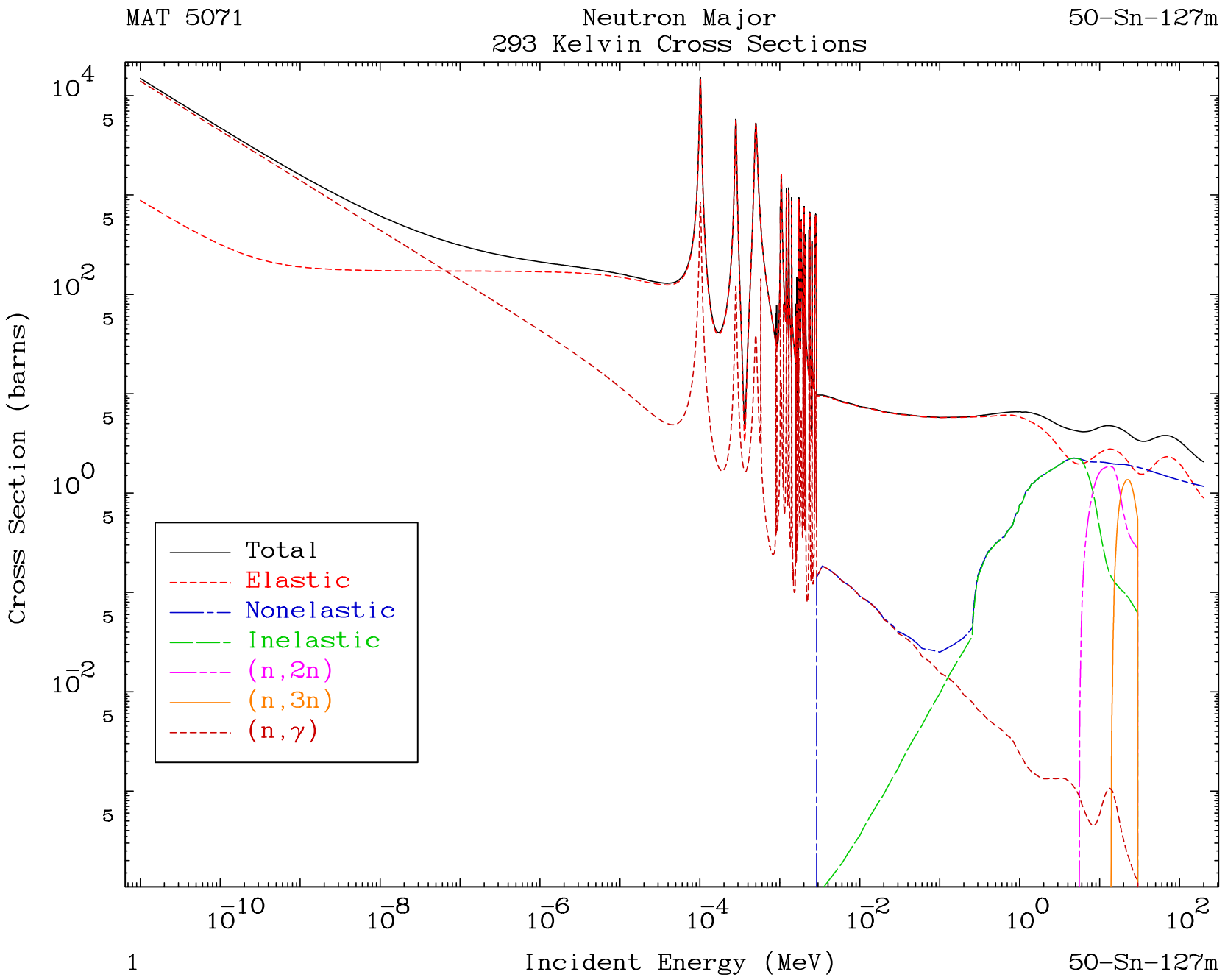
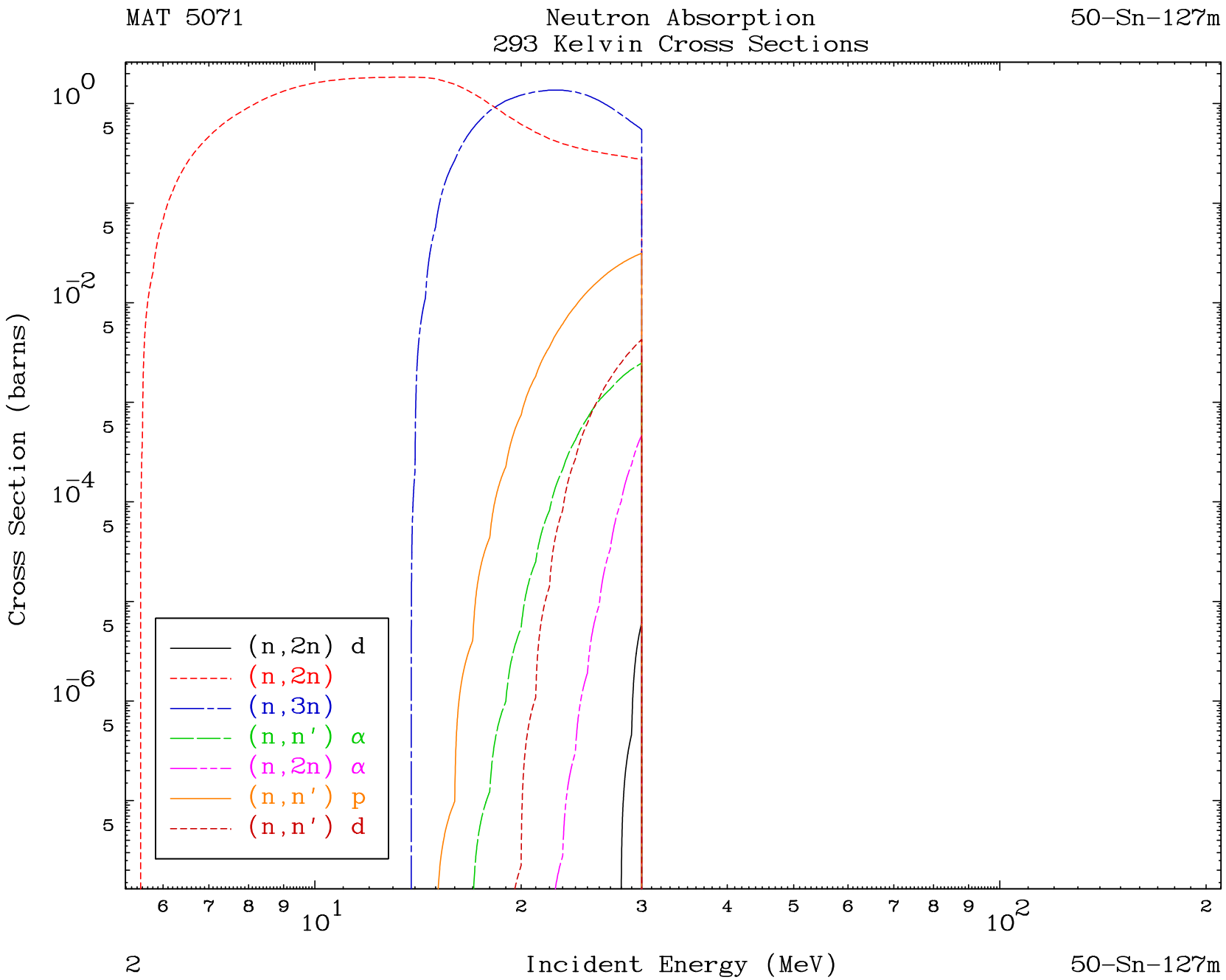
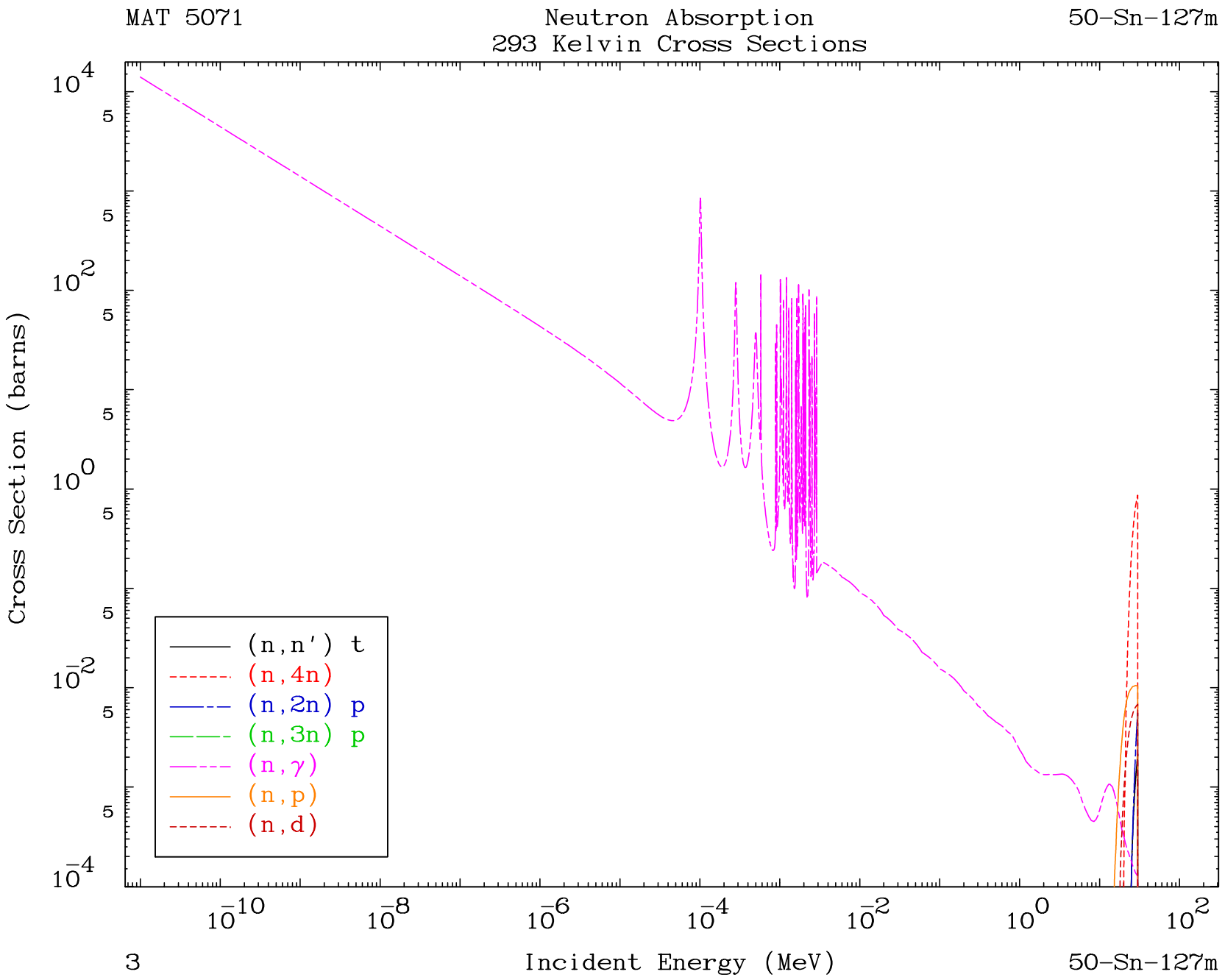
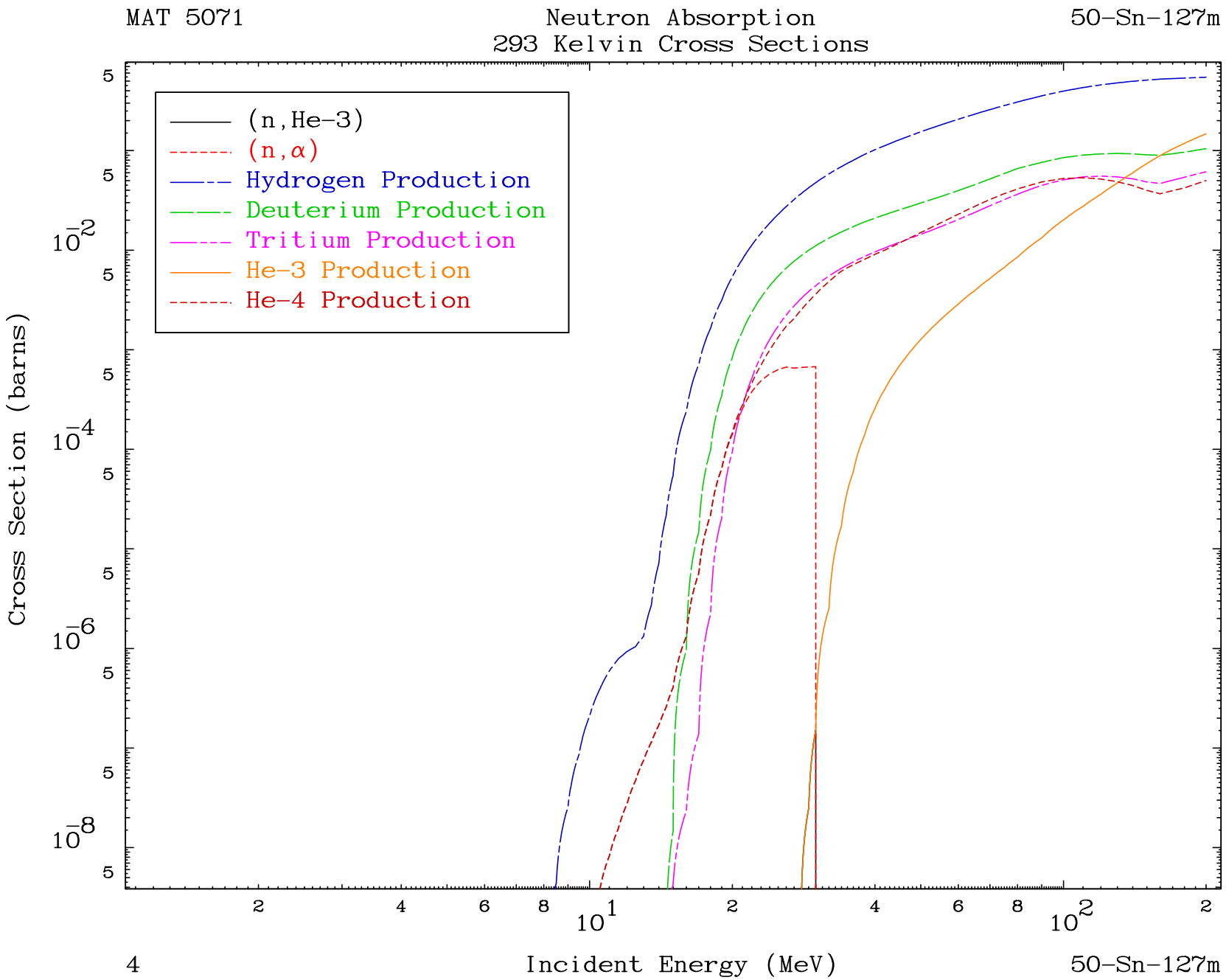
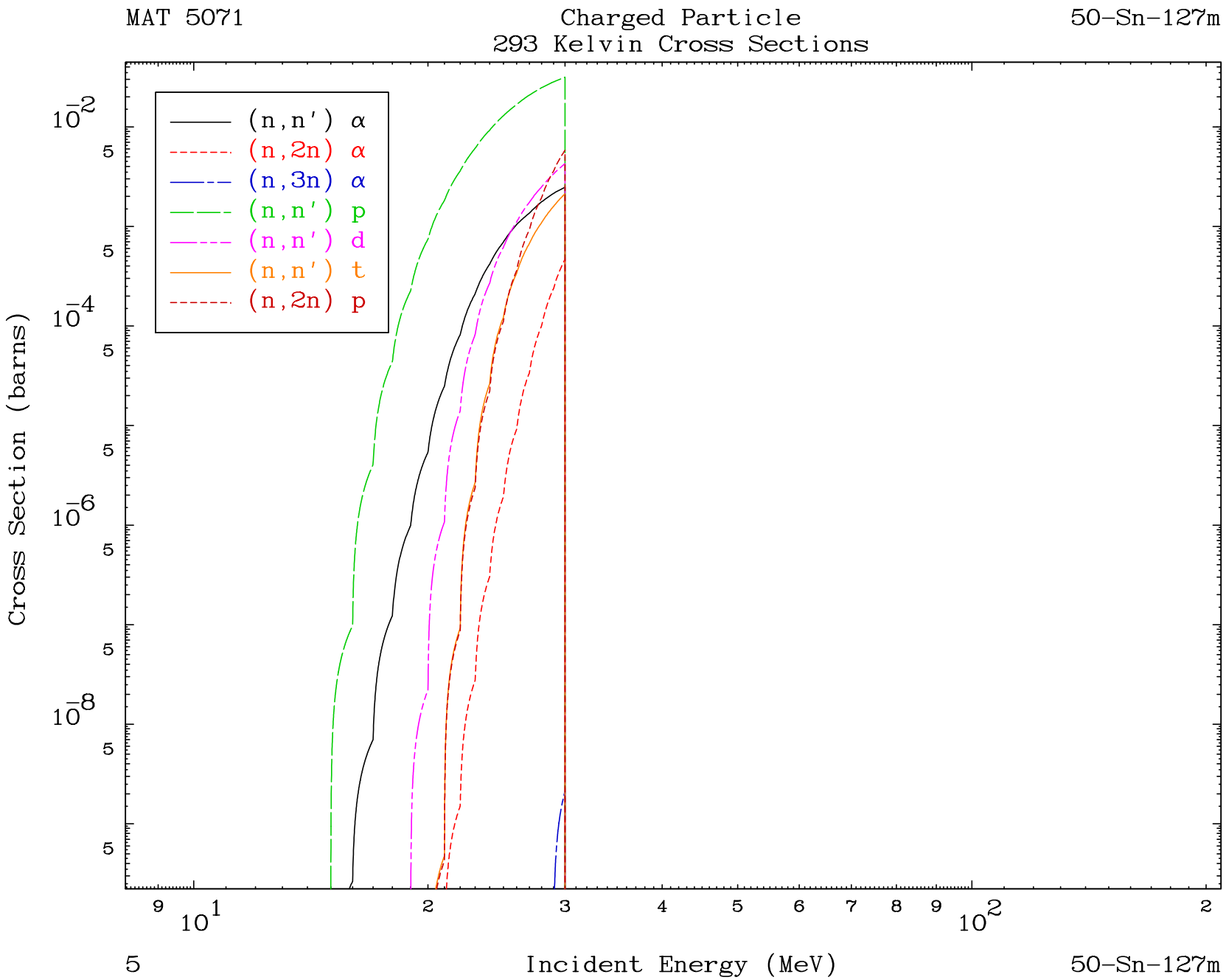
Press Mouse Button to Start

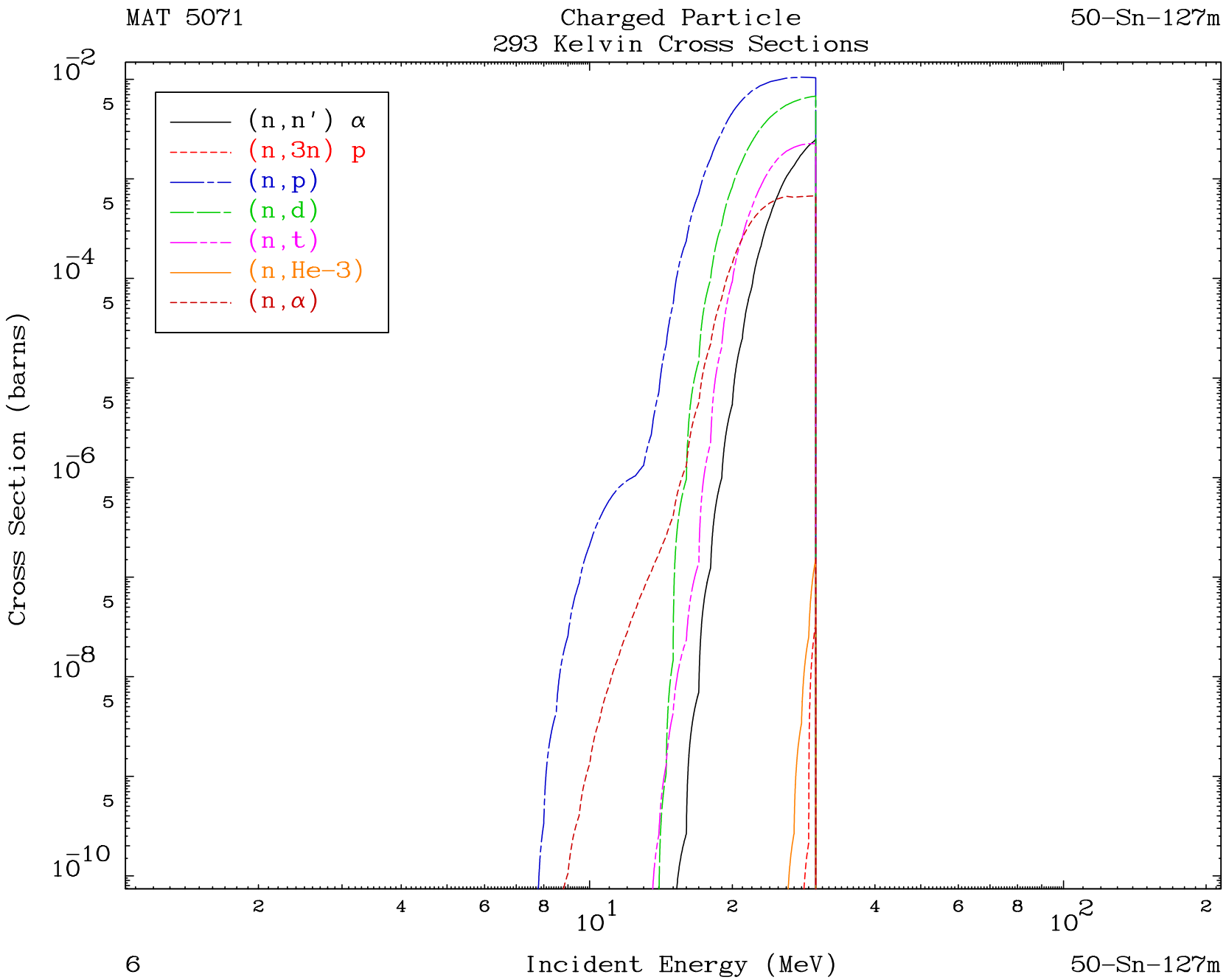

MAT 5071
Neutron Major
293 Kelvin Cross Sections
50-Sn-127m
Cross Section (barns)
Incident Energy (MeV)
50-Sn-127m
1
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)

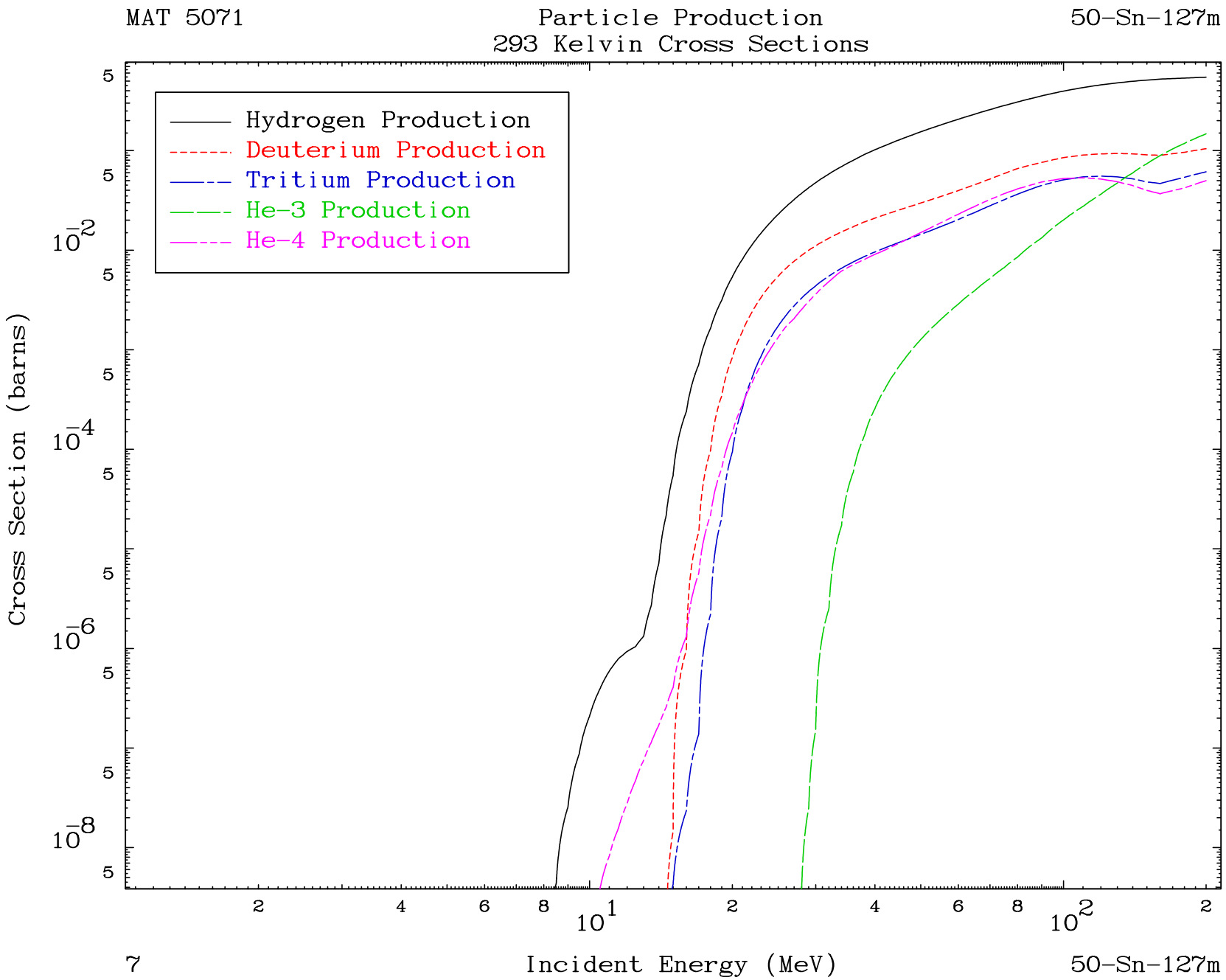

MAT 5071
Neutron Absorption
293 Kelvin Cross Sections
50-Sn-127m
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
50-Sn-127m

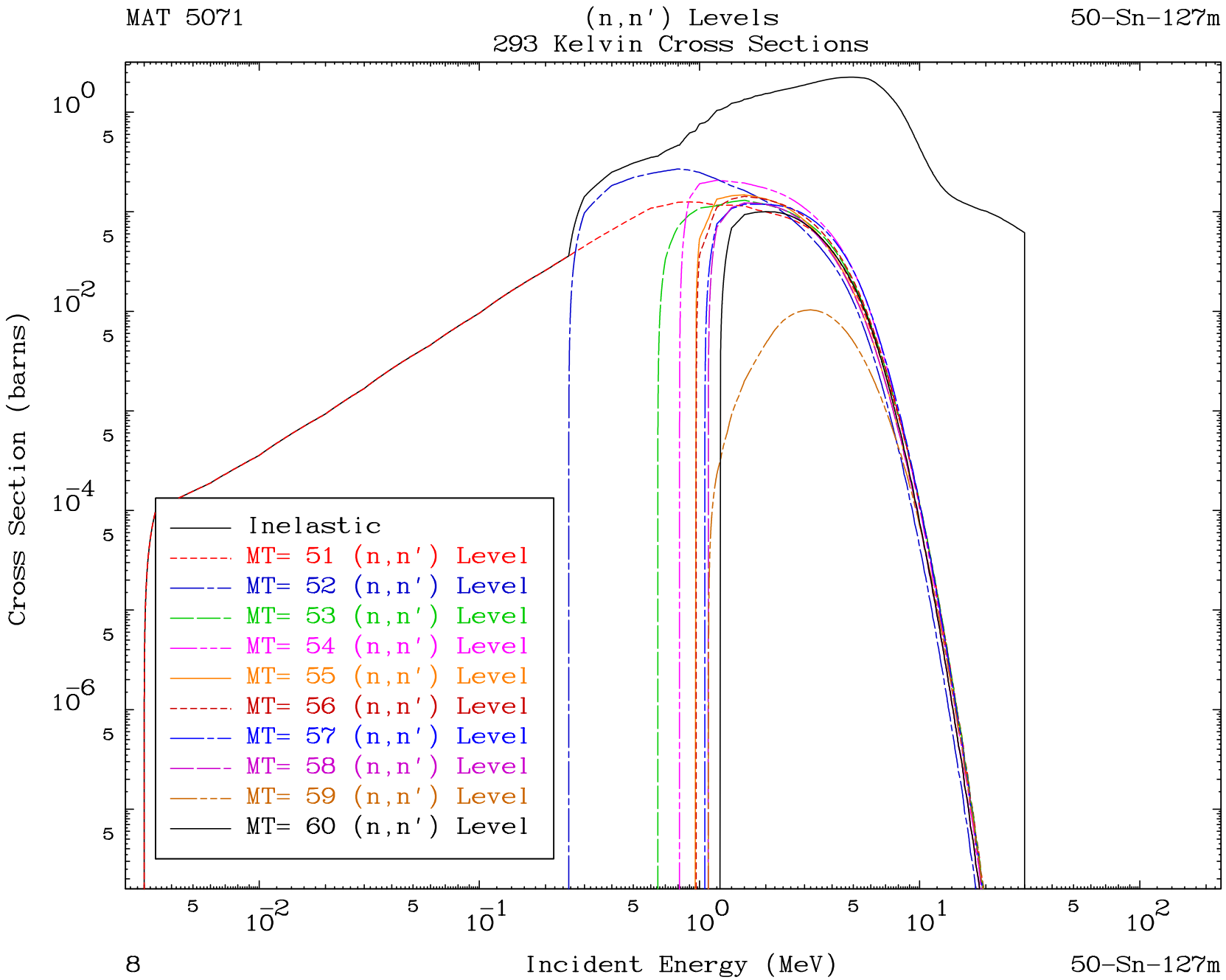

MAT 5071
Neutron Absorption
293 Kelvin Cross Sections
50-Sn-127m
Cross Section (barns)
Incident Energy (MeV)
(n,n') t
(n,4n)
(n,2n) p
(n,3n) p
(n,γ)
(n,p)
(n,d)
3
50-Sn-127m

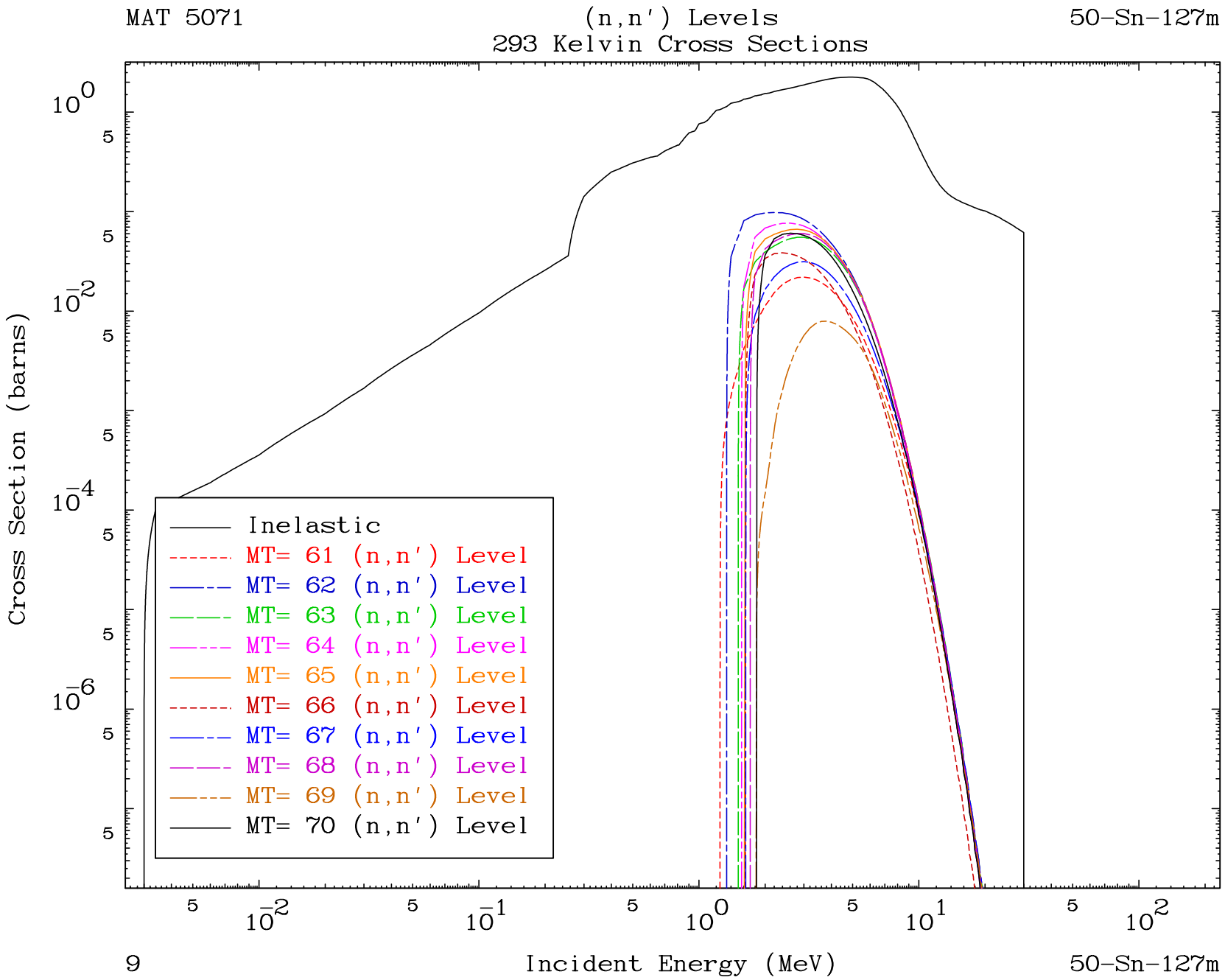

MAT 5071
Neutron Absorption
293 Kelvin Cross Sections
50-Sn-127m
(n,He-3)
(n,α)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
4
50-Sn-127m

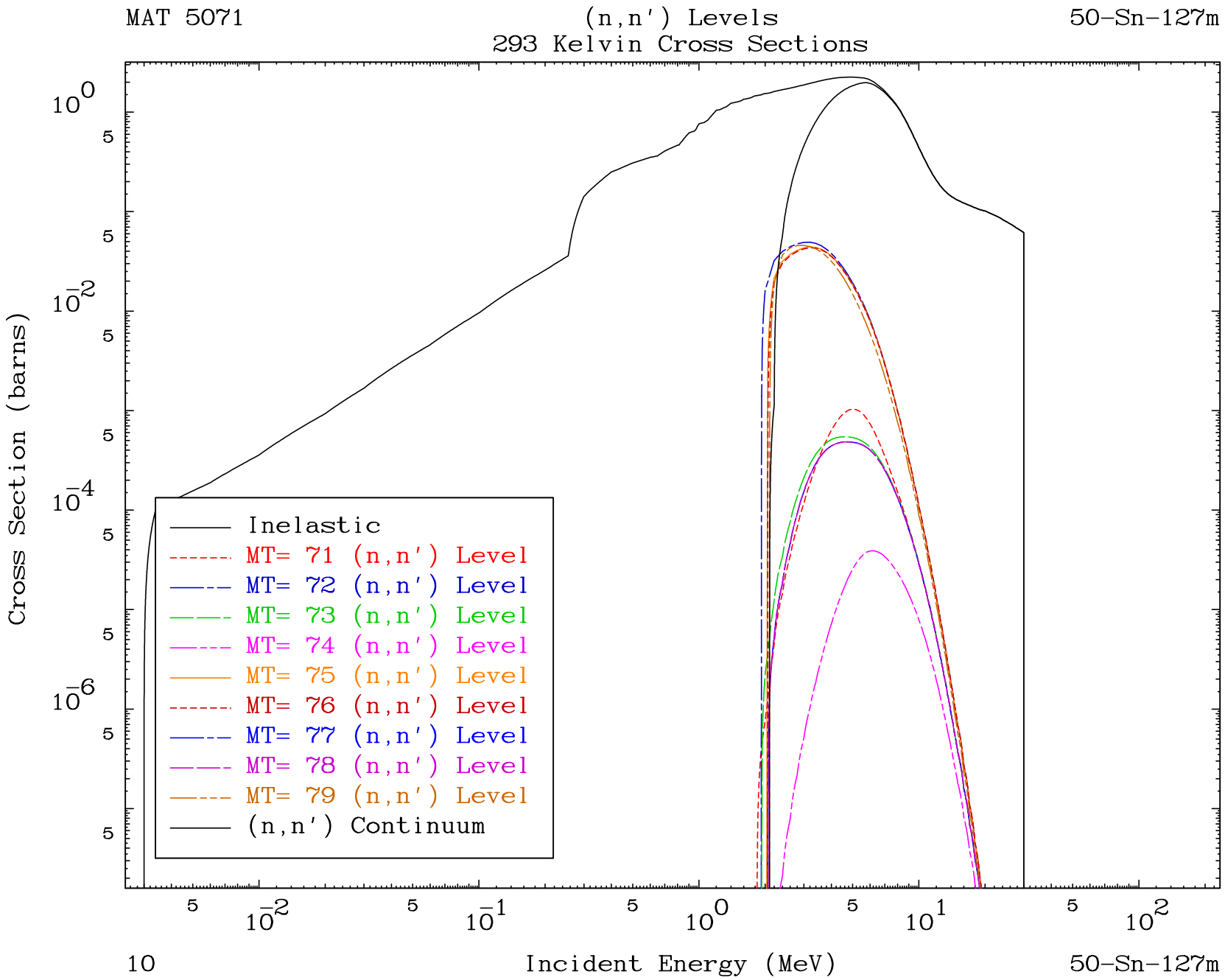

MAT 5071
Charged Particle
50-Sn-127m
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
50-Sn-127m

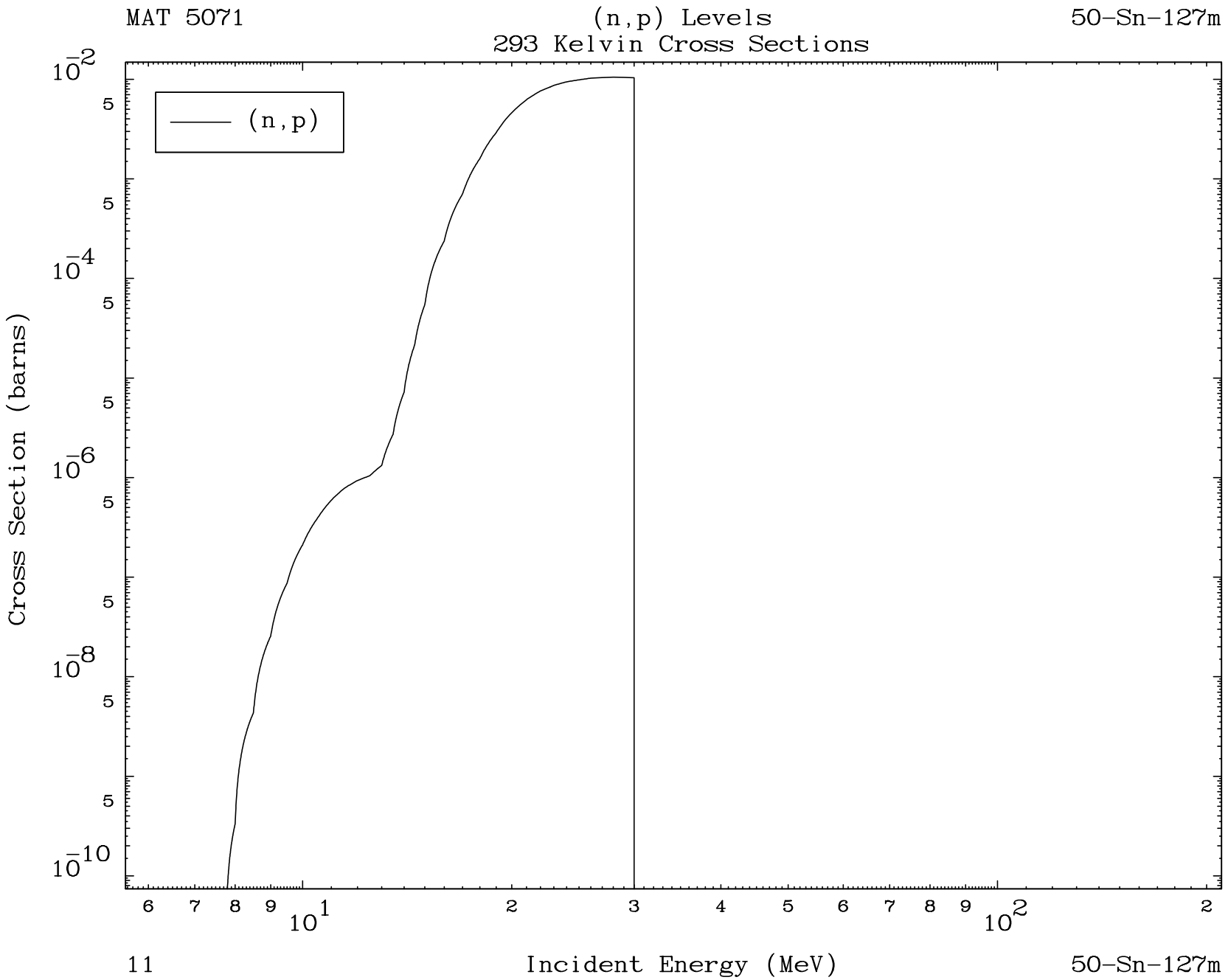

MAT 5071
Charged Particle
293 Kelvin Cross Sections
50-Sn-127m
(n,n') α
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-127m
6


MAT 5071
Particle Production
293 Kelvin Cross Sections
50-Sn-127m
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
50-Sn-127m
7


MAT 5071
(n,n') Levels
293 Kelvin Cross Sections
50-Sn-127m
Cross Section (barns)
Incident Energy (MeV)
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
8
50-Sn-127m


MAT 5071
(n,n') Levels
293 Kelvin Cross Sections
50-Sn-127m
Cross Section (barns)
Incident Energy (MeV)
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
9
50-Sn-127m


MAT 5071
(n,n') Levels
293 Kelvin Cross Sections
50-Sn-127m
Cross Section (barns)
Incident Energy (MeV)
50-Sn-127m
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
MT= 78 (n,n') Level
MT= 79 (n,n') Level
(n,n') Continuum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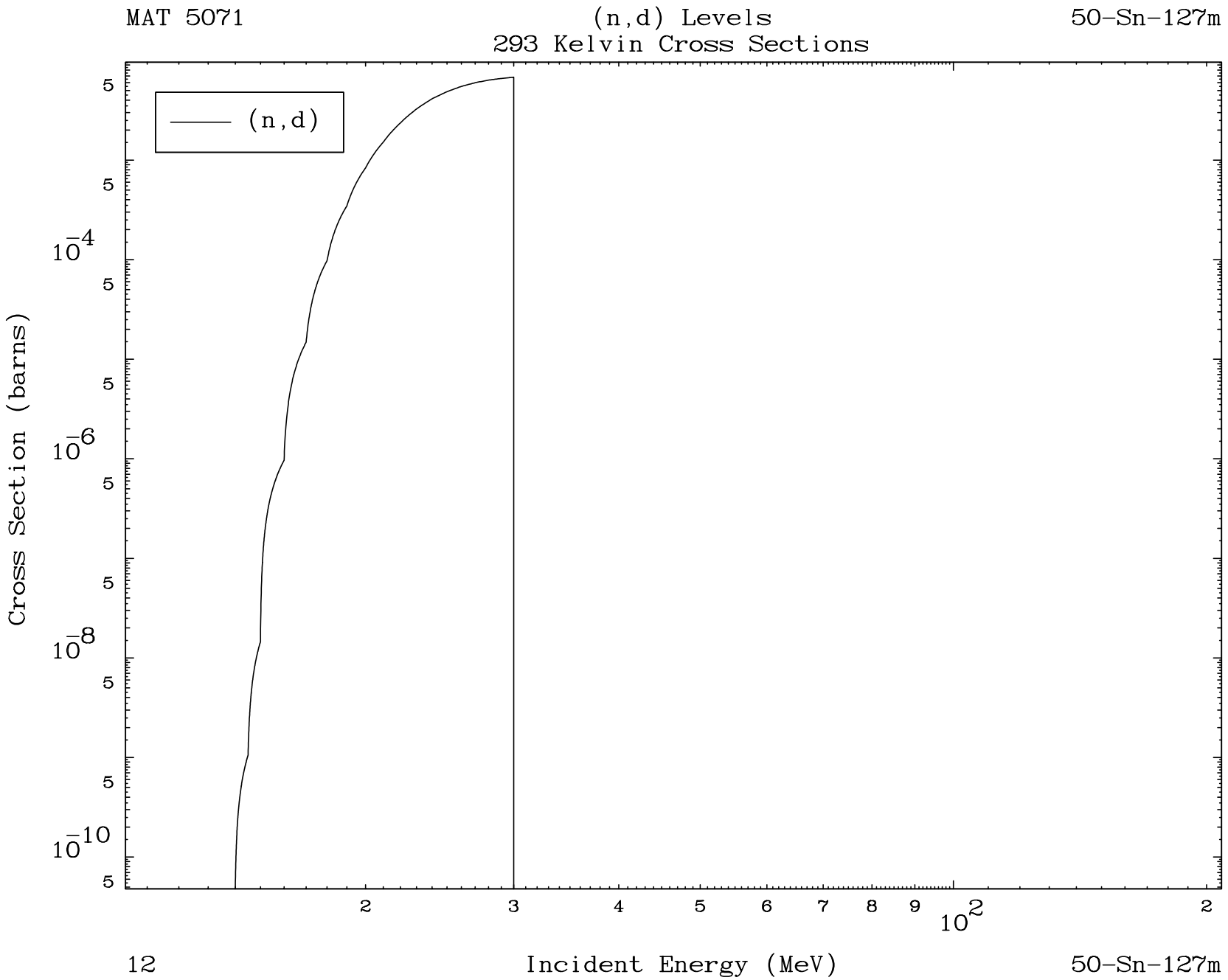
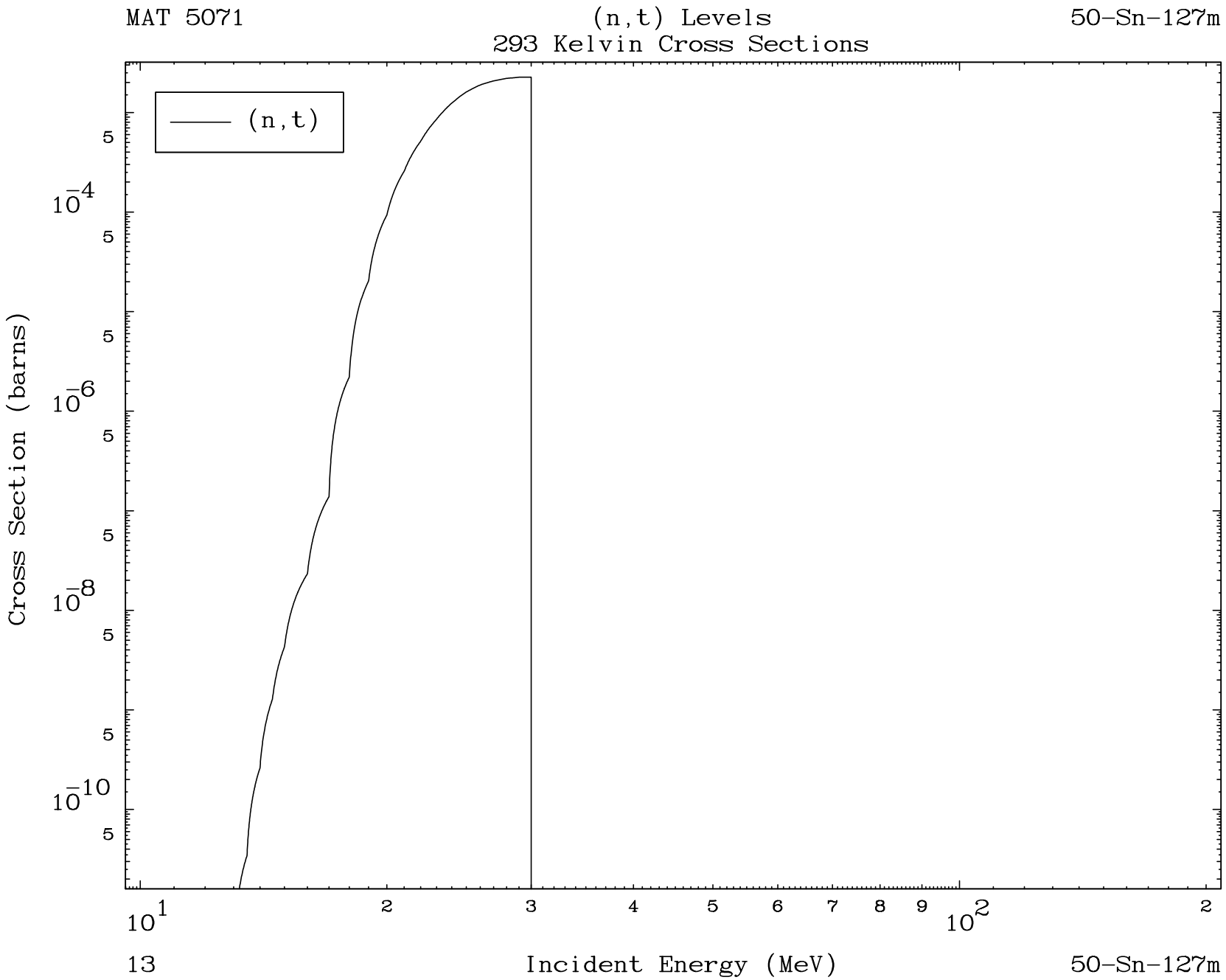
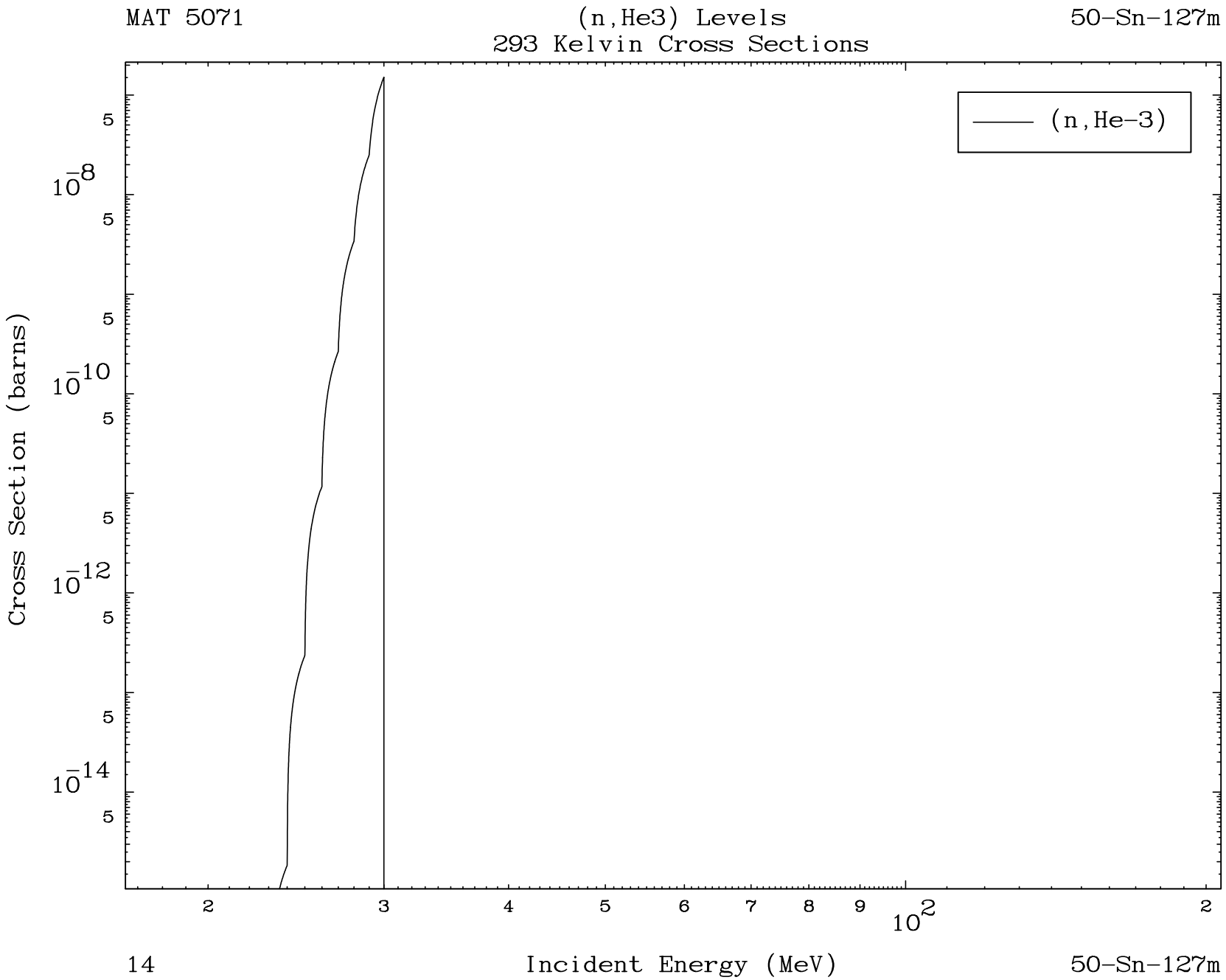
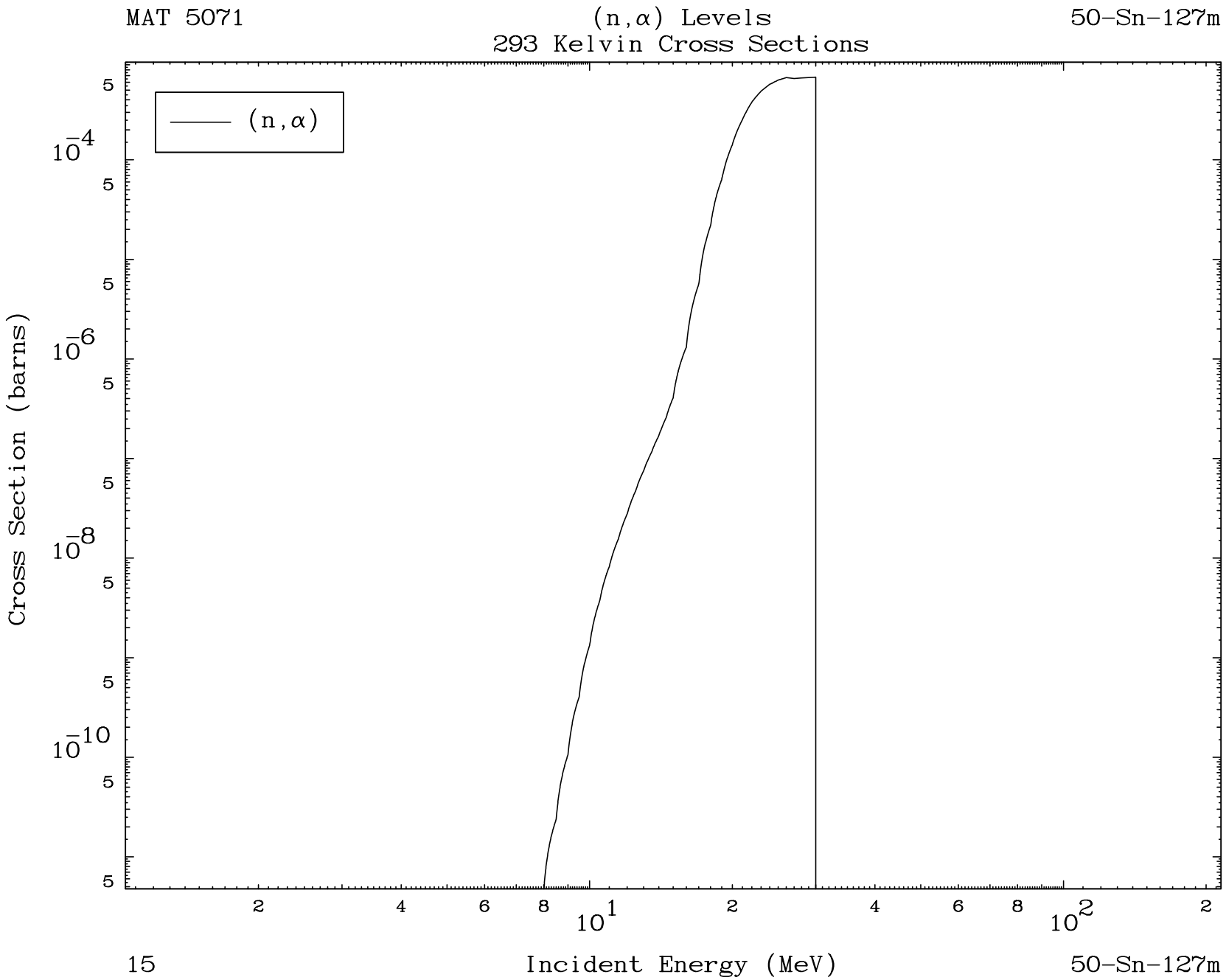
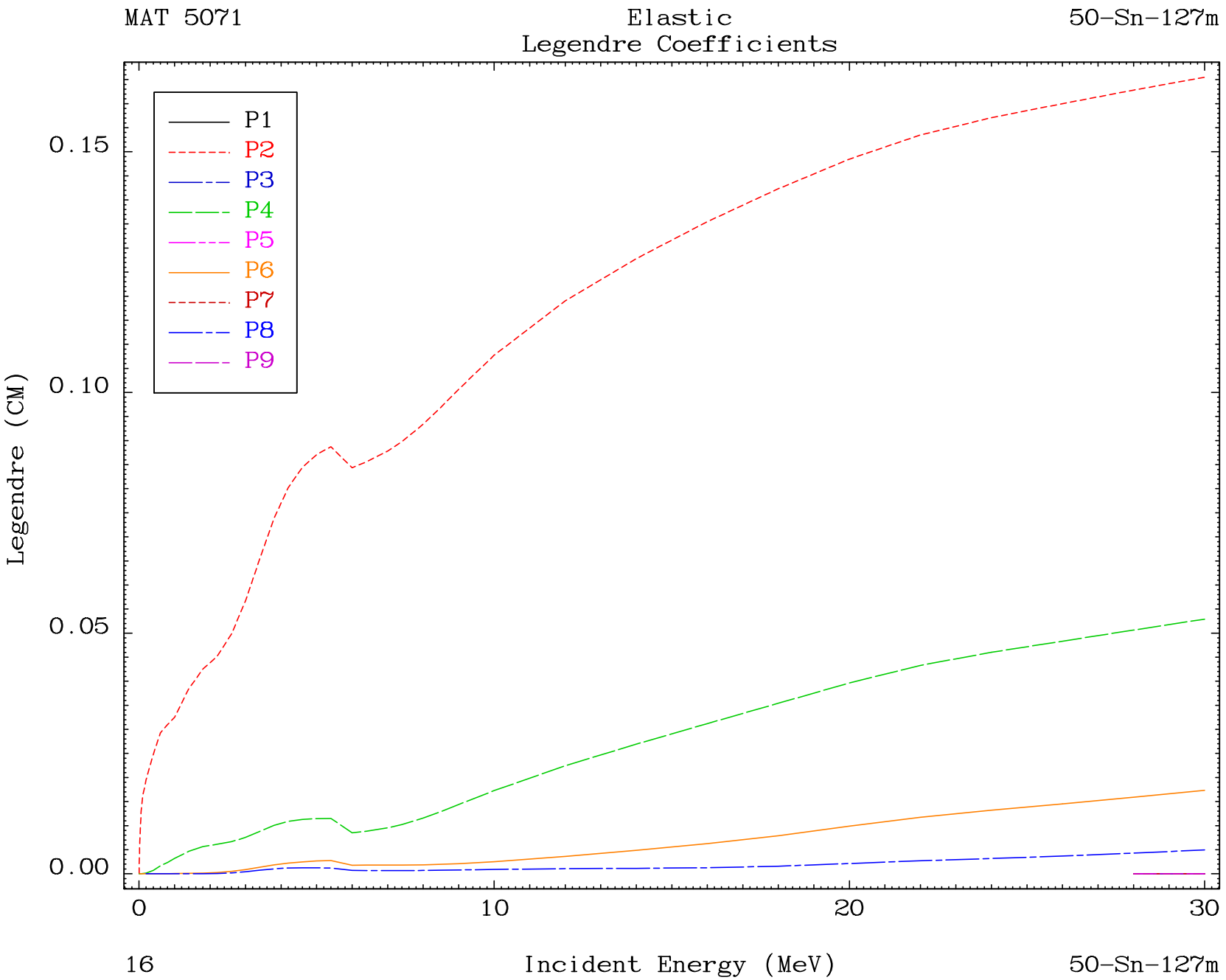
(n,p) Levels
50-Sn-127m
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
11
50-Sn-127m

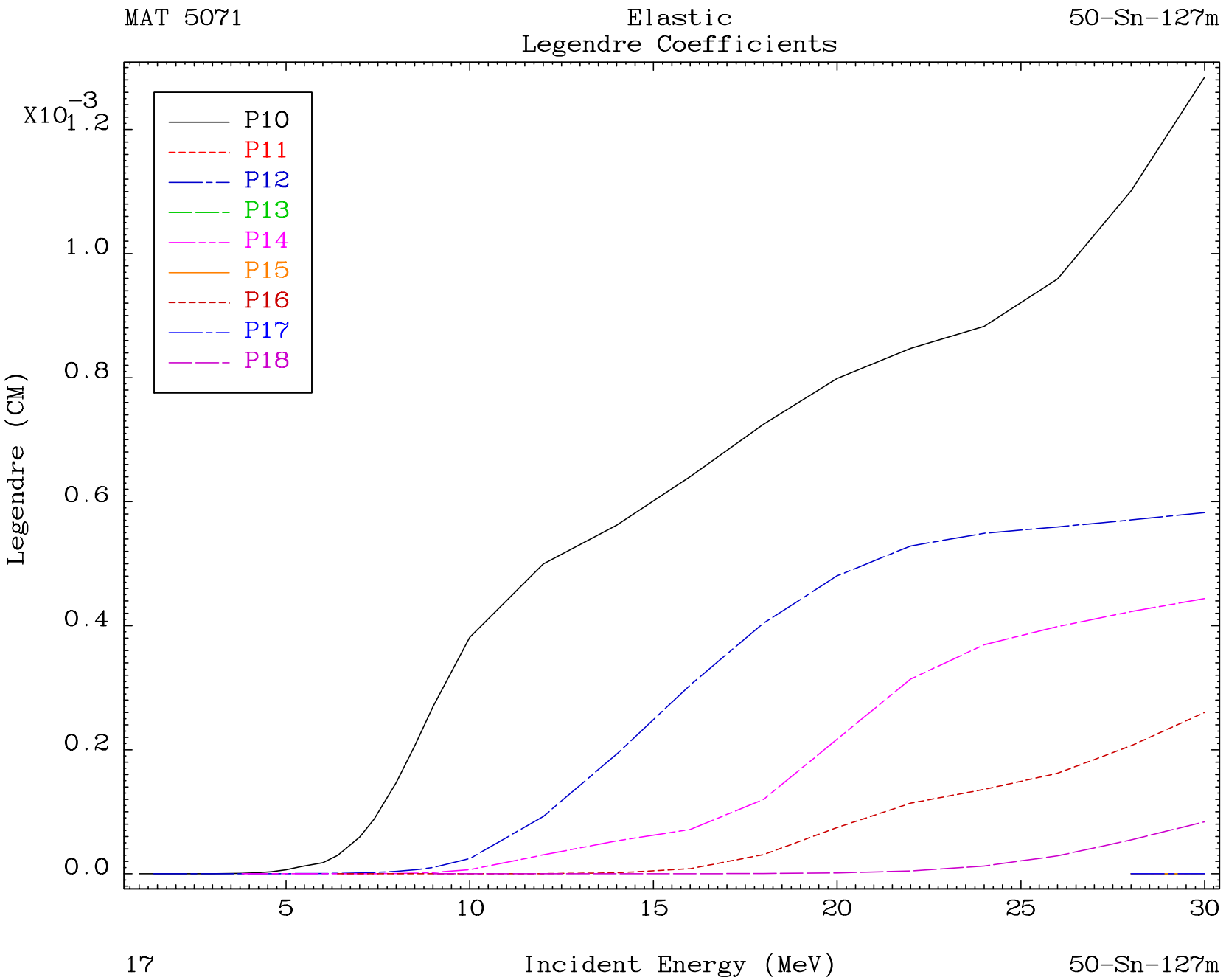

MAT 5071
(n,d) Levels
50-Sn-127m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
50-Sn-127m

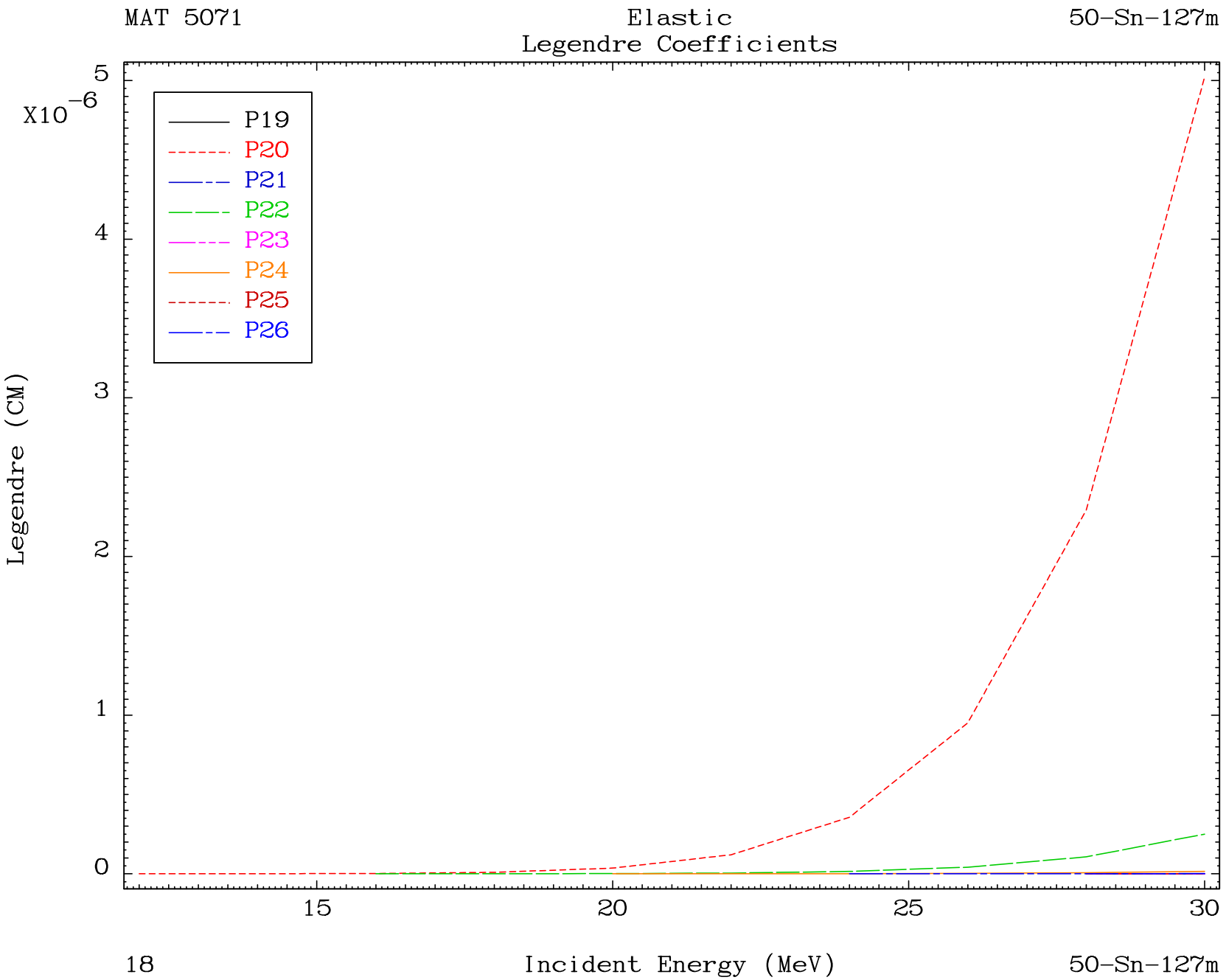

MAT 5071
(n,t) Levels
50-Sn-127m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
101
2
3
4
5
6
7
8
9
102
2
13
Incident Energy (MeV)
50-Sn-127m

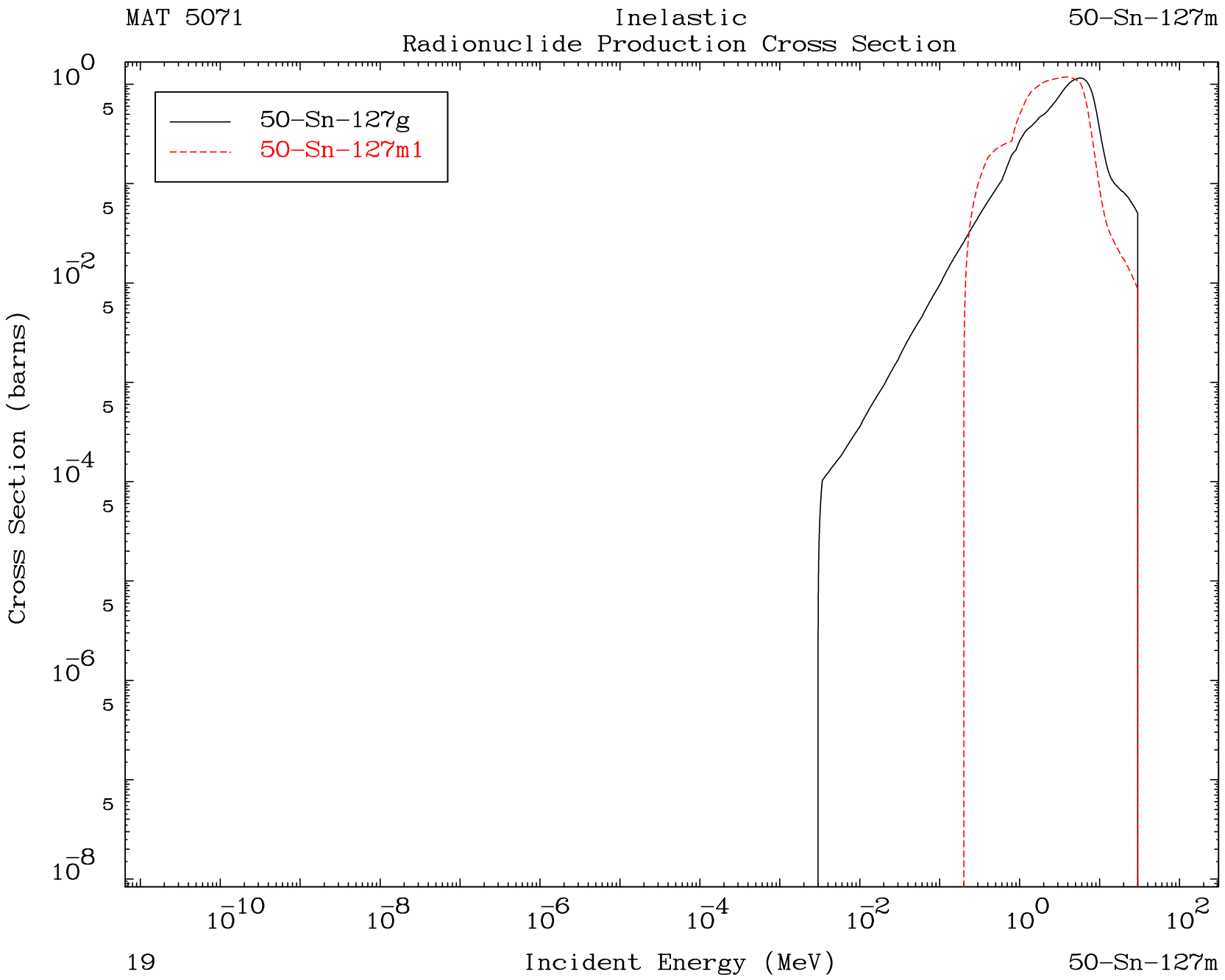

MAT 5071
(n,He3) Levels
293 Kelvin Cross Sections
50-Sn-127m
(n,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
50-Sn-127m

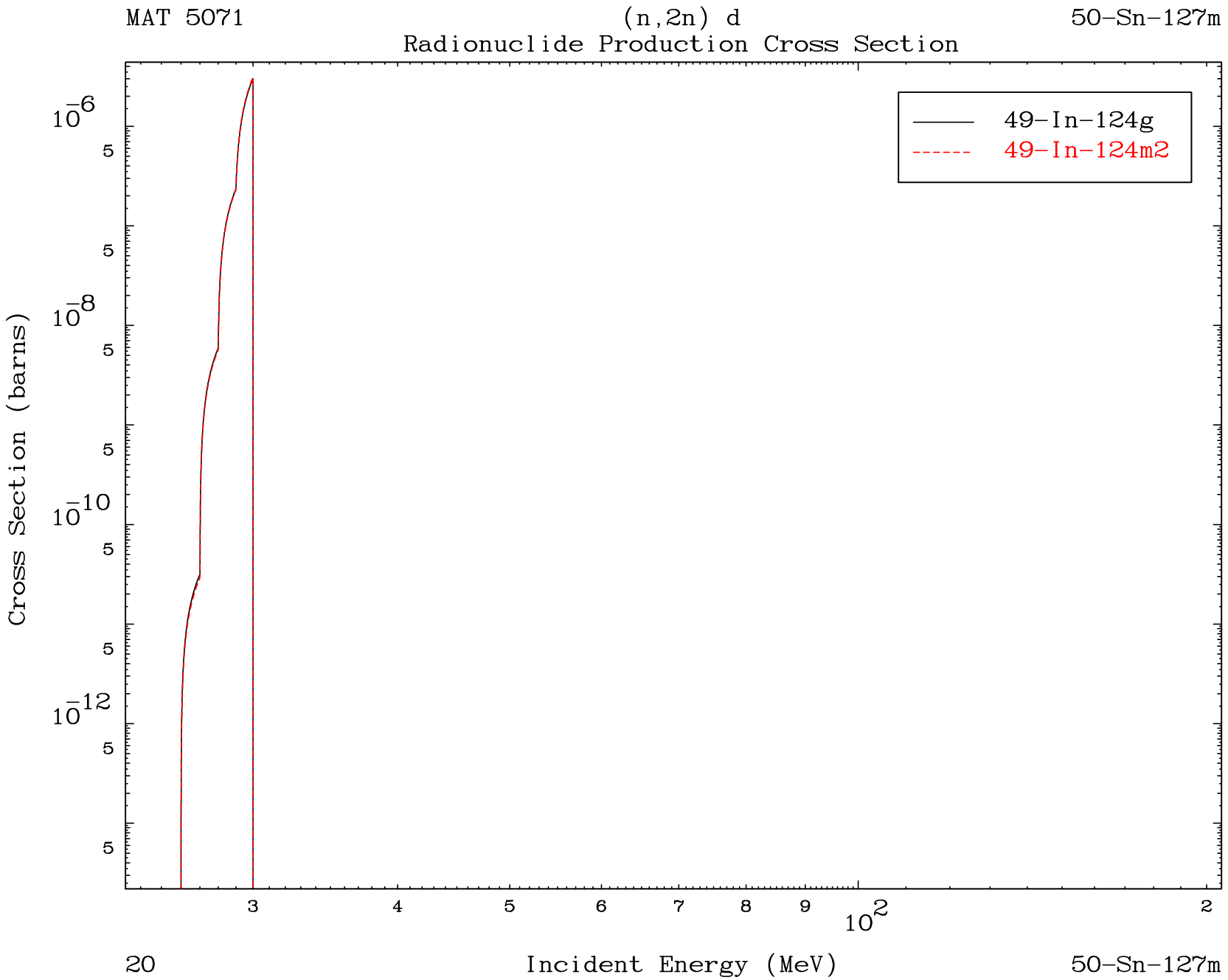

MAT 5071
(n,α) Levels
50-Sn-127m
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
15
50-Sn-127m

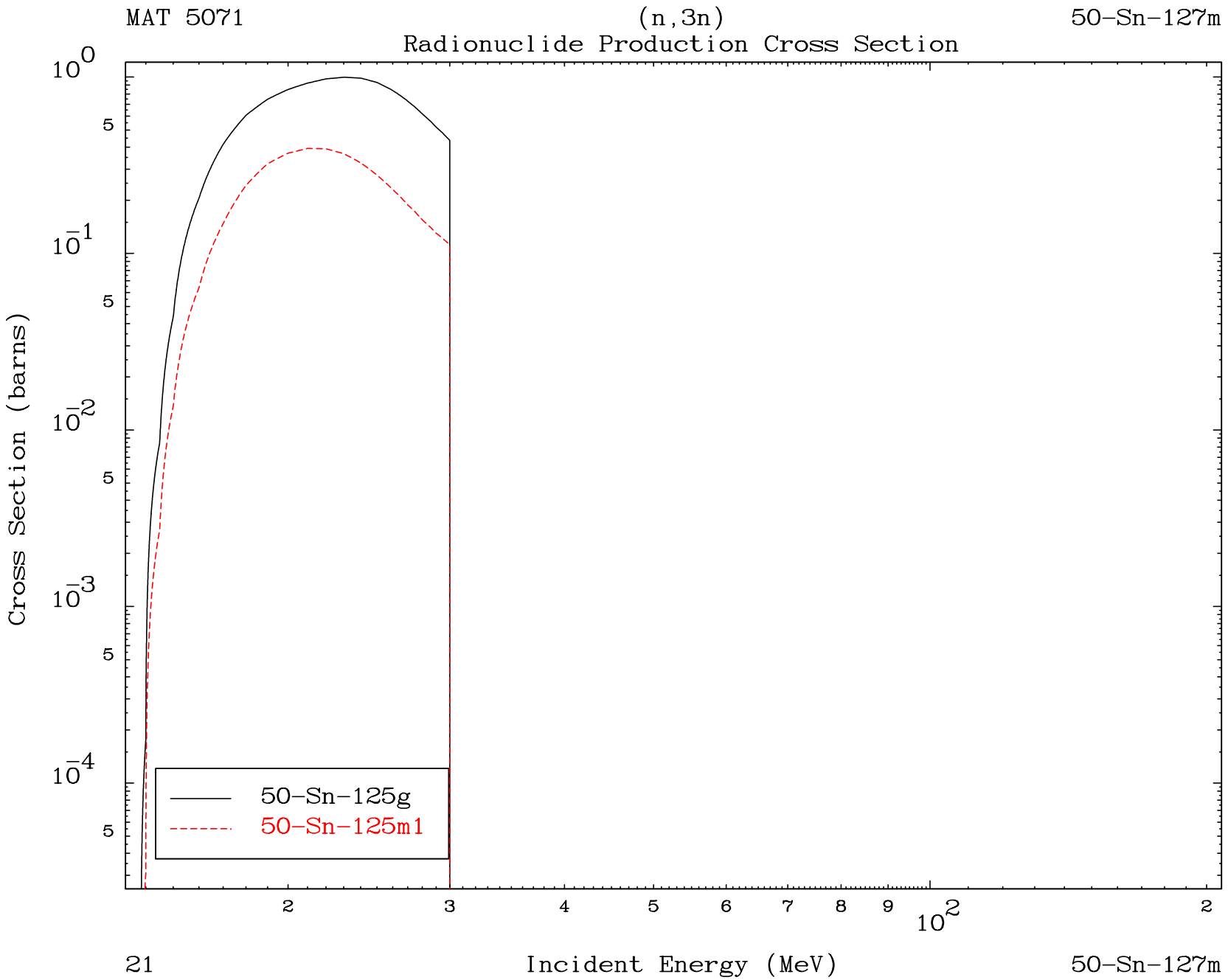

MAT 5071
Elastic
Legendre Coefficients
50-Sn-127m
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.15
0.10
0.05
0.00
Legendre (CM)
0
10
20
30
16
Incident Energy (MeV)
50-Sn-127m

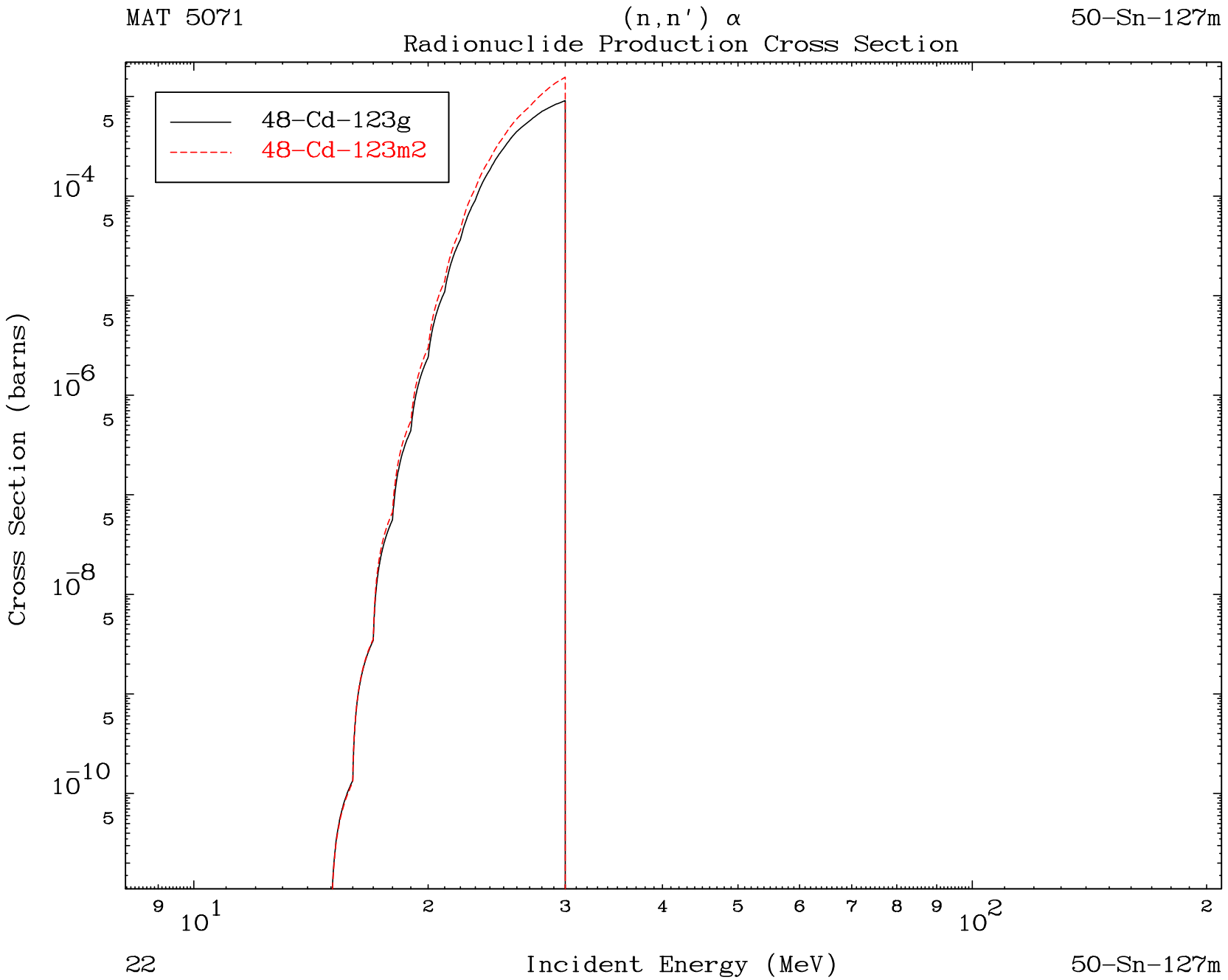

MAT 5071
Elastic
Legendre Coefficients
50-Sn-127m
X10^-3
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
17
Incident Energy (MeV)
50-Sn-127m

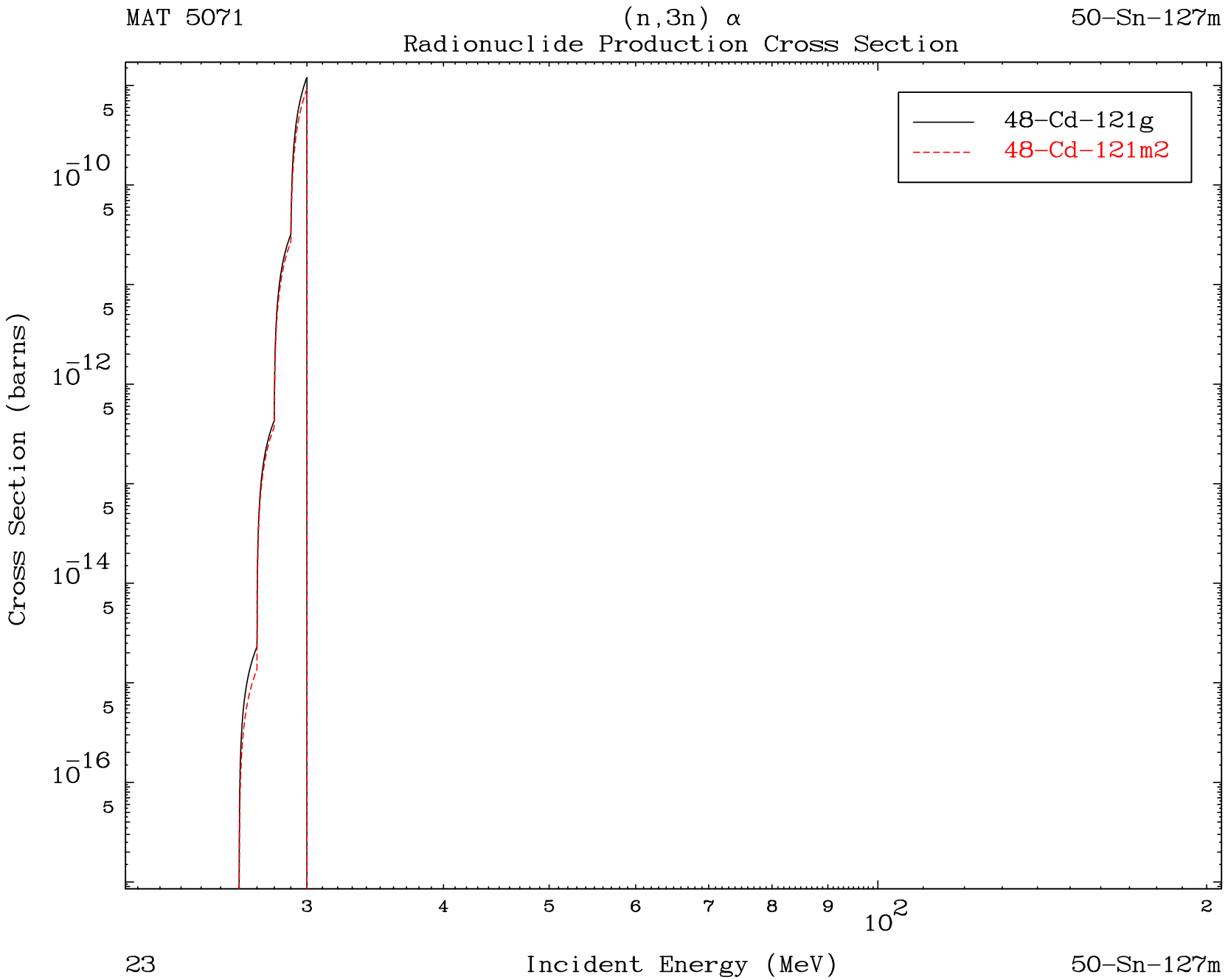

MAT 5071
Elastic
Legendre Coefficients
50-Sn-127m
X10 −6
5
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
15
20
25
30
18
Incident Energy (MeV)
50-Sn-127m

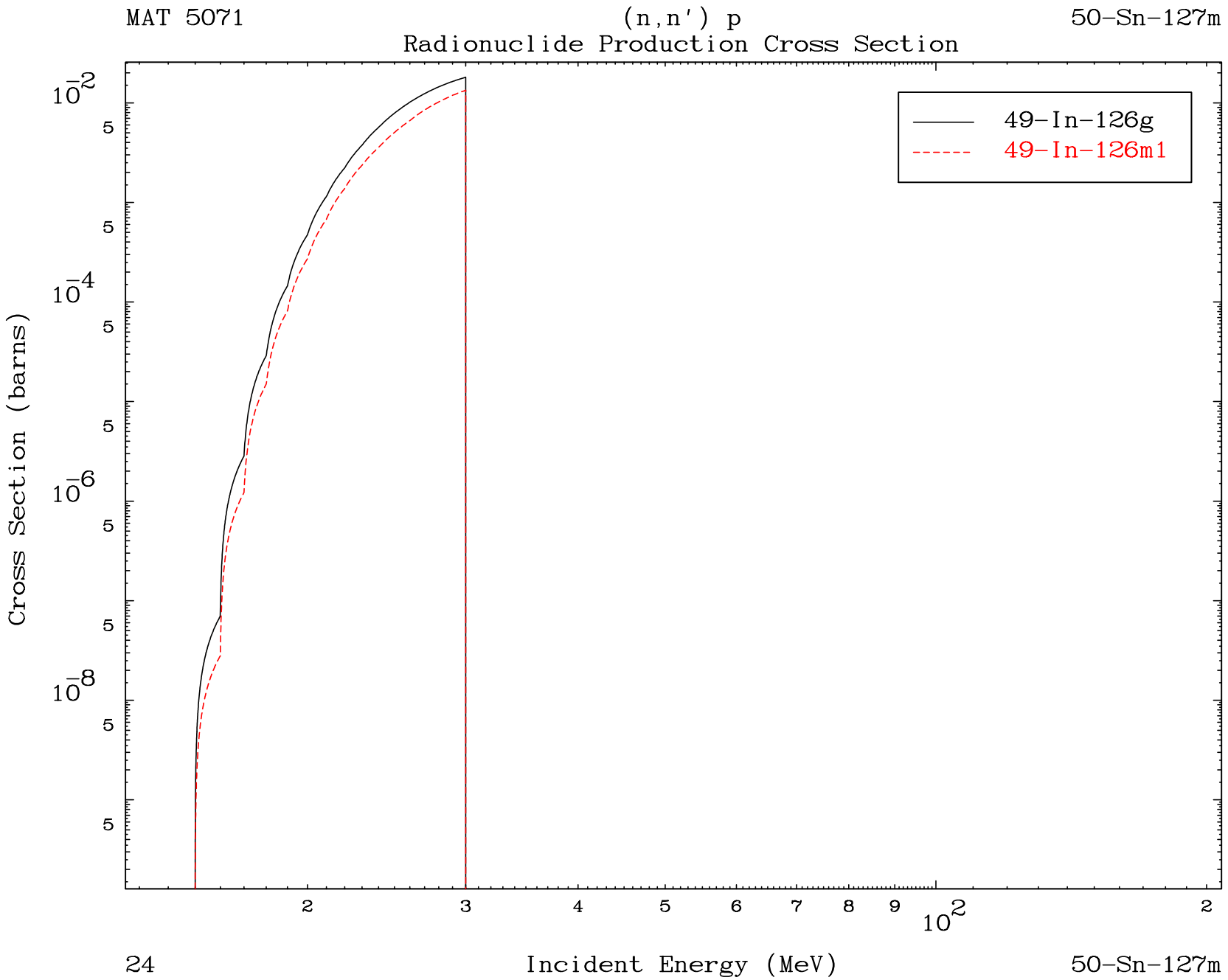

MAT 5071
Inelastic
50-Sn-127m
Radionuclide Production Cross Section
50-Sn-127g
50-Sn-127m1
Cross Section (barns)
Incident Energy (MeV)
19
50-Sn-127m

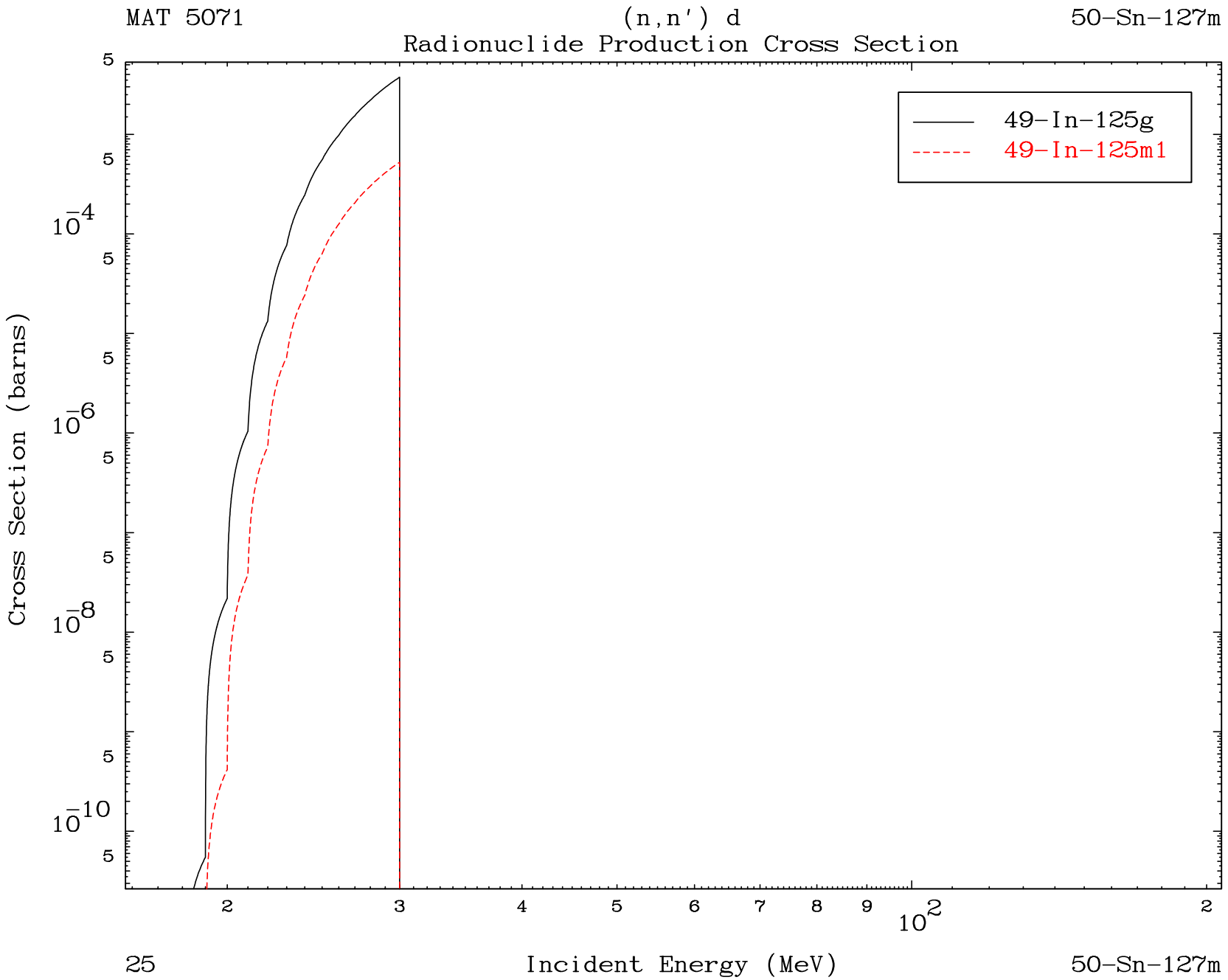

MAT 5071
(n,2n) d
50-Sn-127m
Radionuclide Production Cross Section
49-In-124g
49-In-124m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^2
2
20
Incident Energy (MeV)
50-Sn-127m

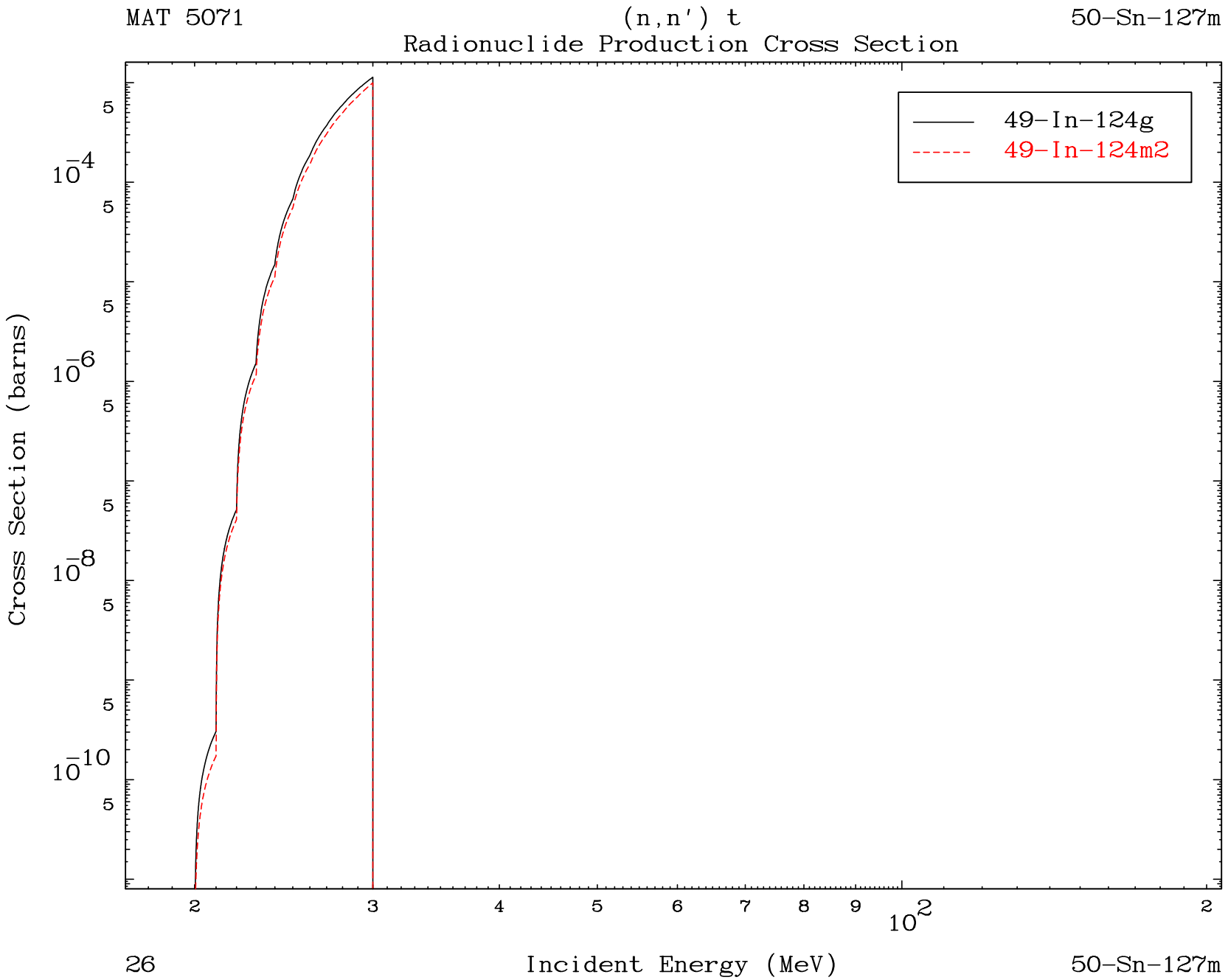

MAT 5071
(n,3n)
50-Sn-127m
Radionuclide Production Cross Section
Cross Section (barns)
10^0
5
10^-1
5
10^-2
5
10^-3
5
10^-4
5
50-Sn-125g
50-Sn-125m1
2
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
50-Sn-127m

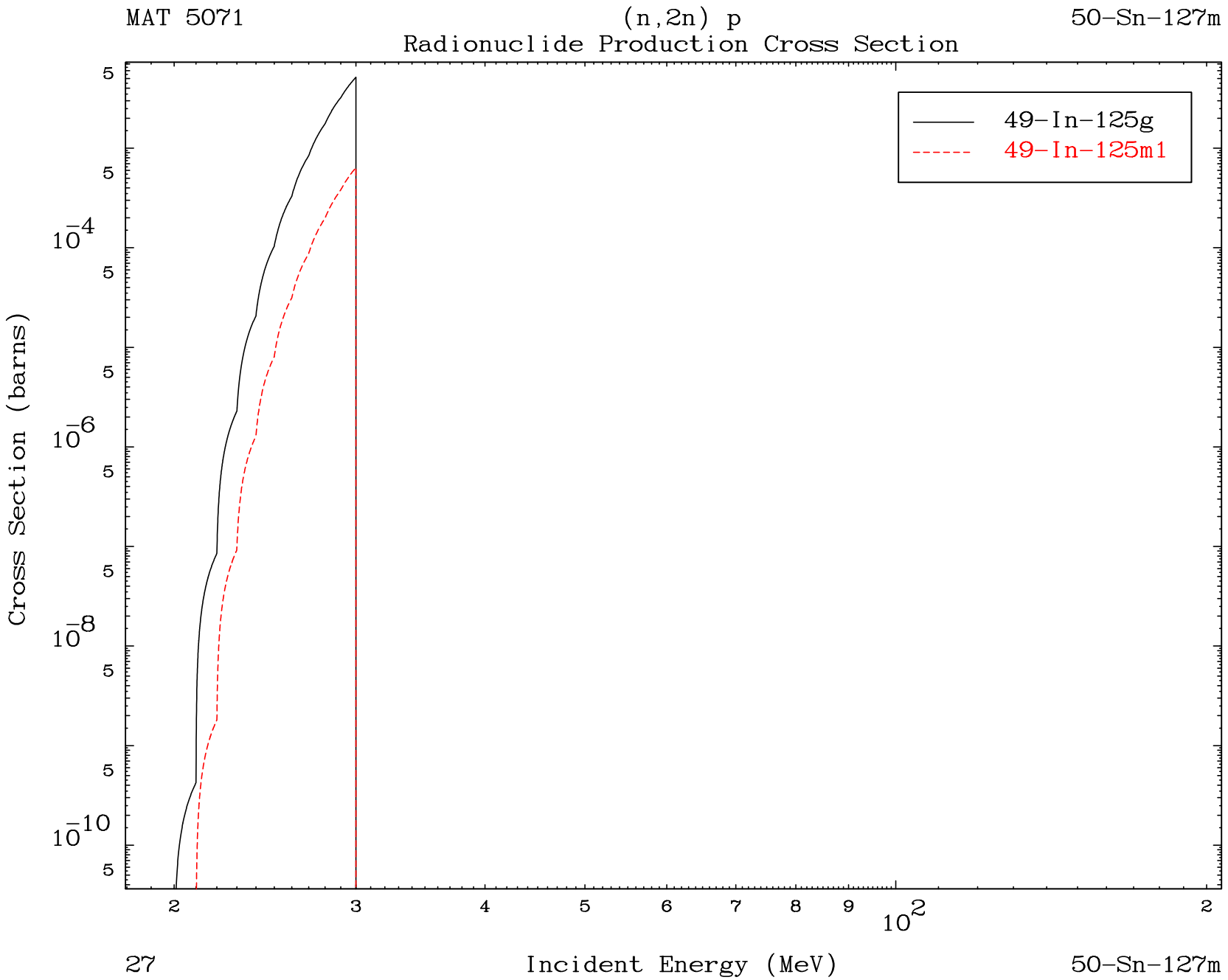

MAT 5071
(n,n') α
50-Sn-127m
Radionuclide Production Cross Section
48-Cd-123g
48-Cd-123m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
22
Incident Energy (MeV)
50-Sn-127m

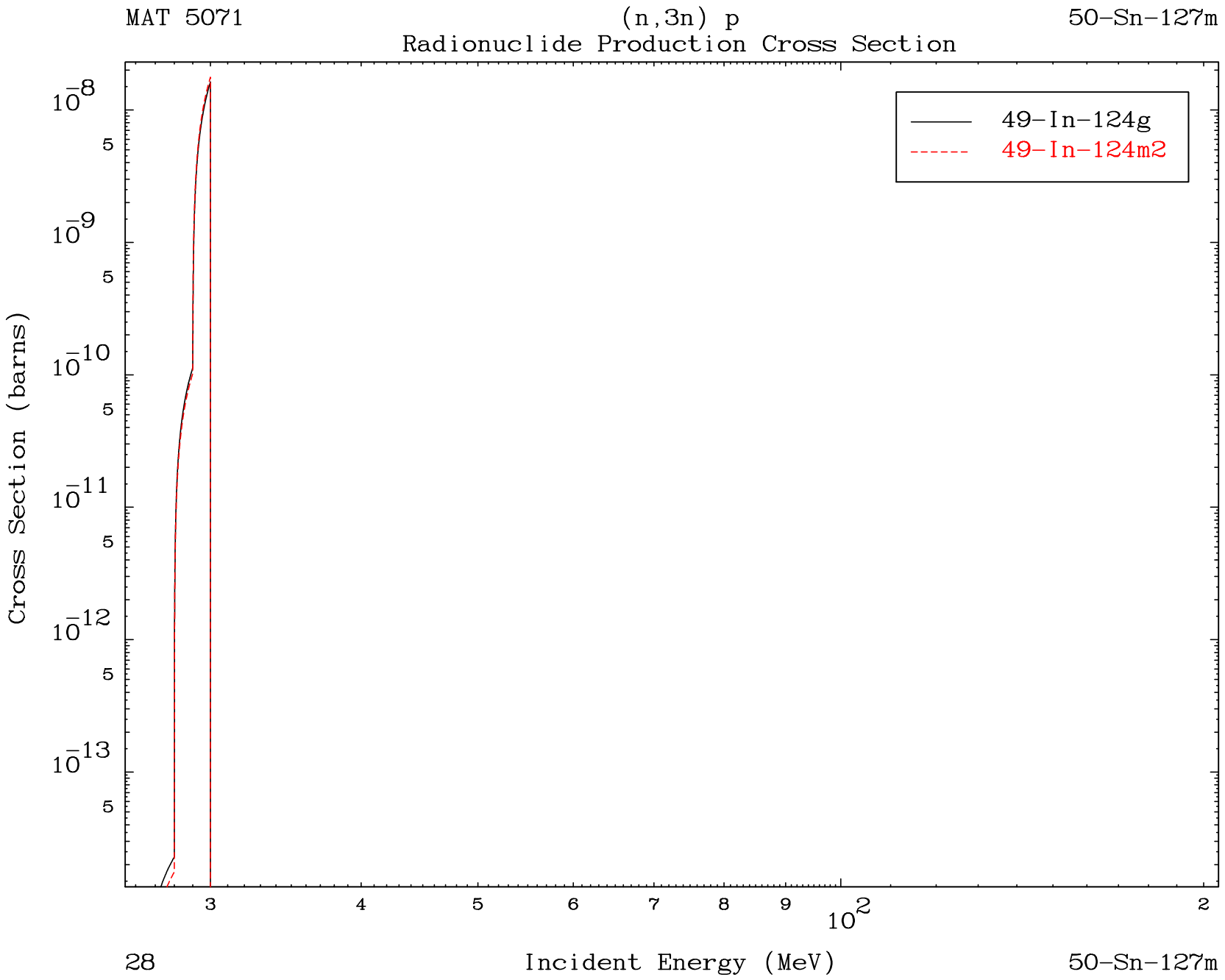

MAT 5071
(n,3n) α
50-Sn-127m
Radionuclide Production Cross Section
48-Cd-121g
48-Cd-121m2
Cross Section (barns)
10-10
10-12
10-14
10-16
5
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
50-Sn-127m

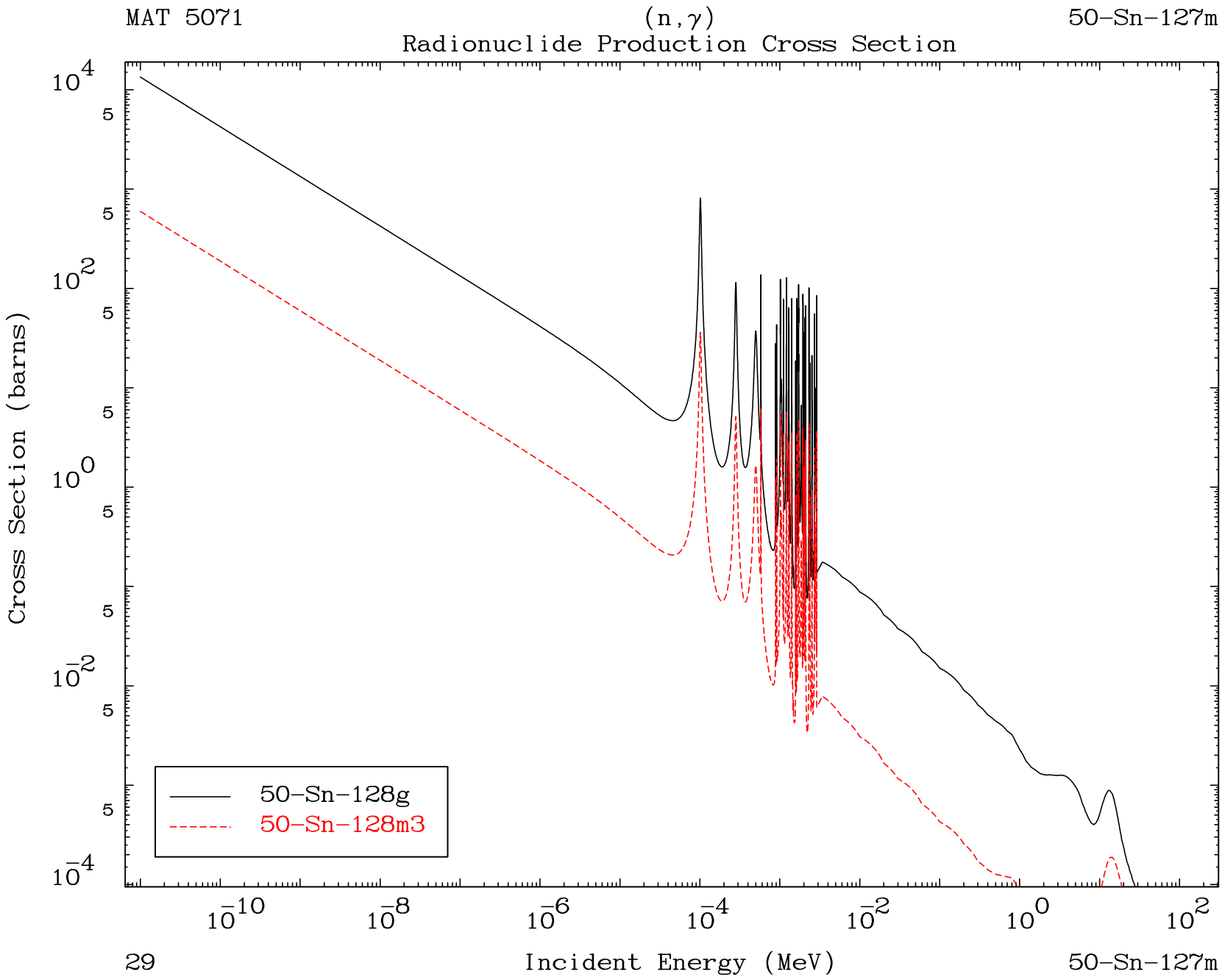

MAT 5071
(n,n') p
50-Sn-127m
Radionuclide Production Cross Section
49-In-126g
49-In-126m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
24
Incident Energy (MeV)
50-Sn-127m

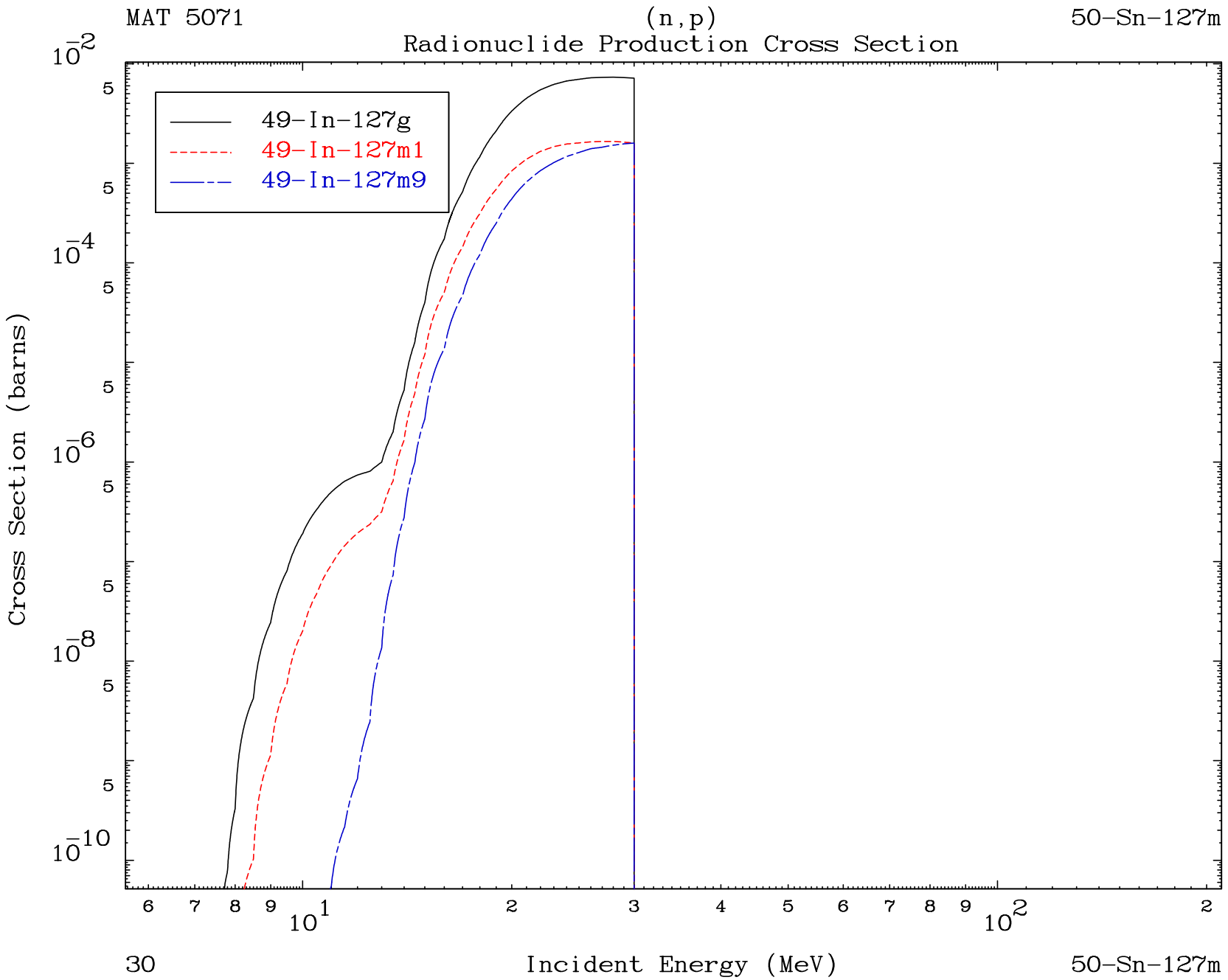

MAT 5071
(n,n') d
50-Sn-127m
Radionuclide Production Cross Section
49-In-125g
49-In-125m1
Cross Section (barns)
Incident Energy (MeV)
25
50-Sn-127m

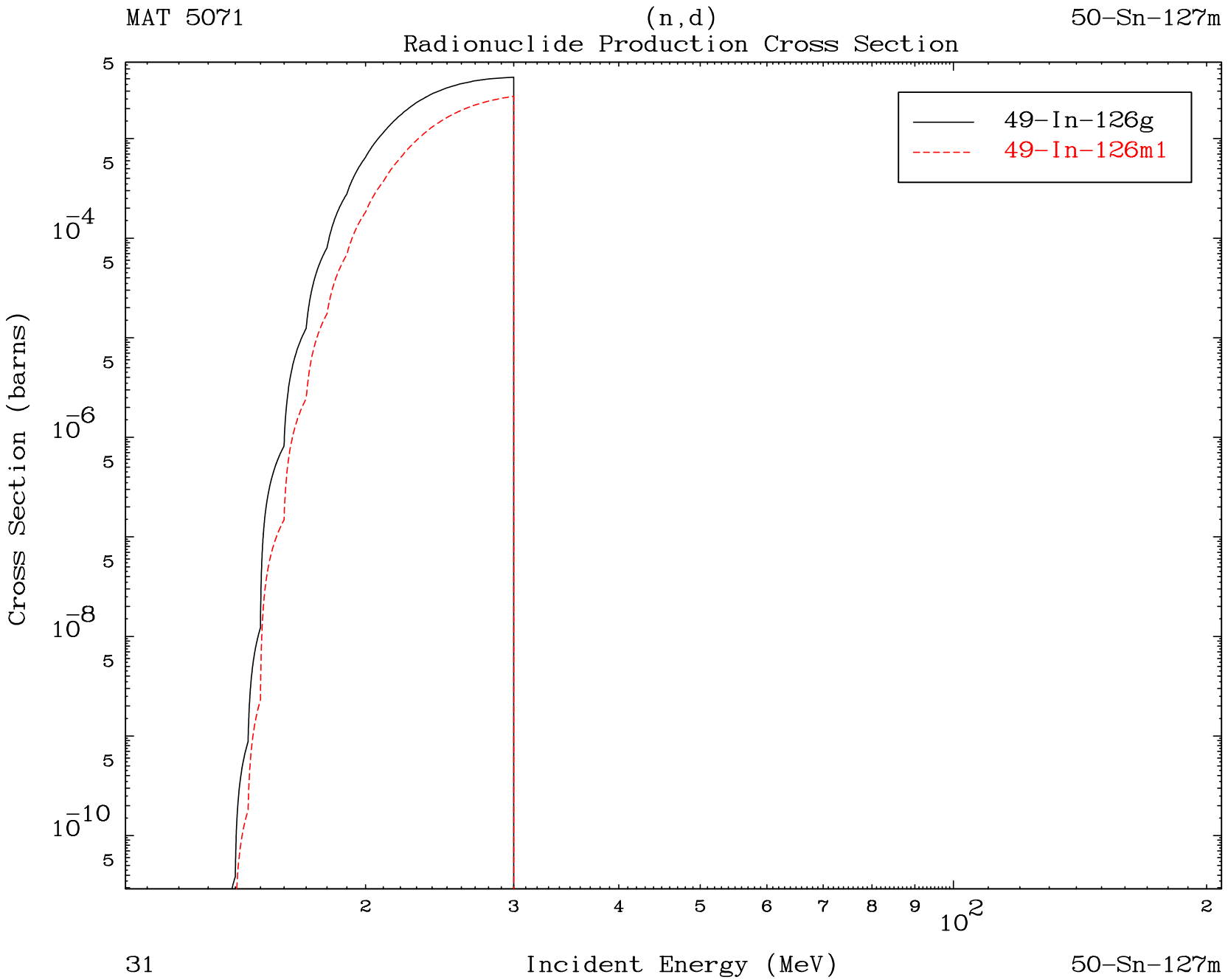

MAT 5071
(n,n') t
50-Sn-127m
Radionuclide Production Cross Section
49-In-124g
49-In-124m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
26
Incident Energy (MeV)
50-Sn-127m

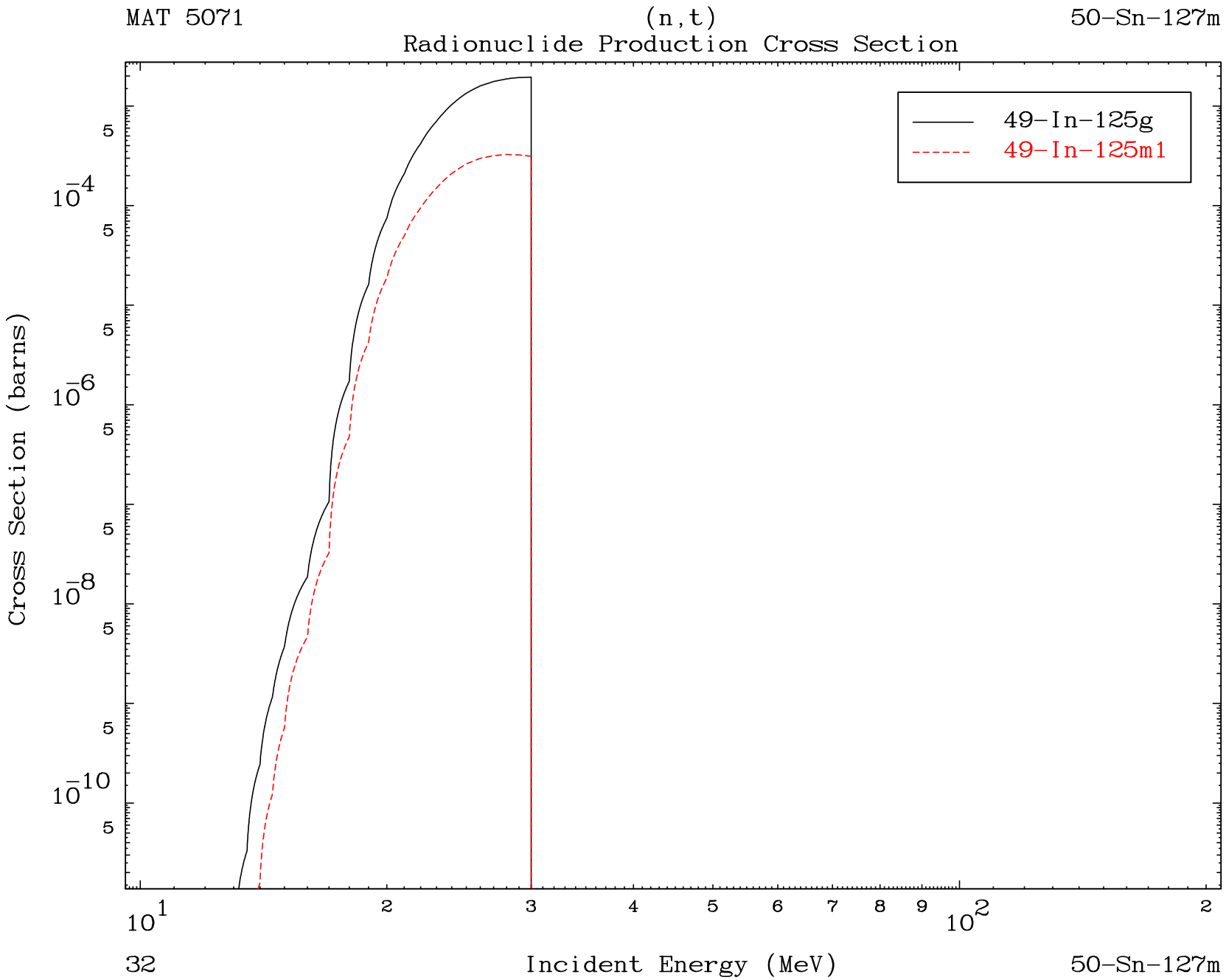

MAT 5071
(n,2n) p
50-Sn-127m
Radionuclide Production Cross Section
49-In-125g
49-In-125m1
Cross Section (barns)
Incident Energy (MeV)
27
50-Sn-127m


MAT 5071
(n,3n) p
50-Sn-127m
Radionuclide Production Cross Section
49-In-124g
49-In-124m2
Cross Section (barns)
Incident Energy (MeV)
28
50-Sn-127m


MAT 5071
(n,γ)
50-Sn-127m
Radionuclide Production Cross Section
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
50-Sn-128g
50-Sn-128m3
29
Incident Energy (MeV)
50-Sn-127m


MAT 5071
(n,p)
50-Sn-127m
Radionuclide Production Cross Section
49-In-127g
49-In-127m1
49-In-127m9
Cross Section (barns)
Incident Energy (MeV)
30
50-Sn-127m


MAT 5071
(n,d)
50-Sn-127m
Radionuclide Production Cross Section
49-In-126g
49-In-126m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
31
Incident Energy (MeV)
50-Sn-127m


MAT 5071
(n,t)
50-Sn-127m
Radionuclide Production Cross Section
49-In-125g
49-In-125m1
Cross Section (barns)
10-4
10-6
10-8
10-10
101
102
Incident Energy (MeV)
32
50-Sn-127m