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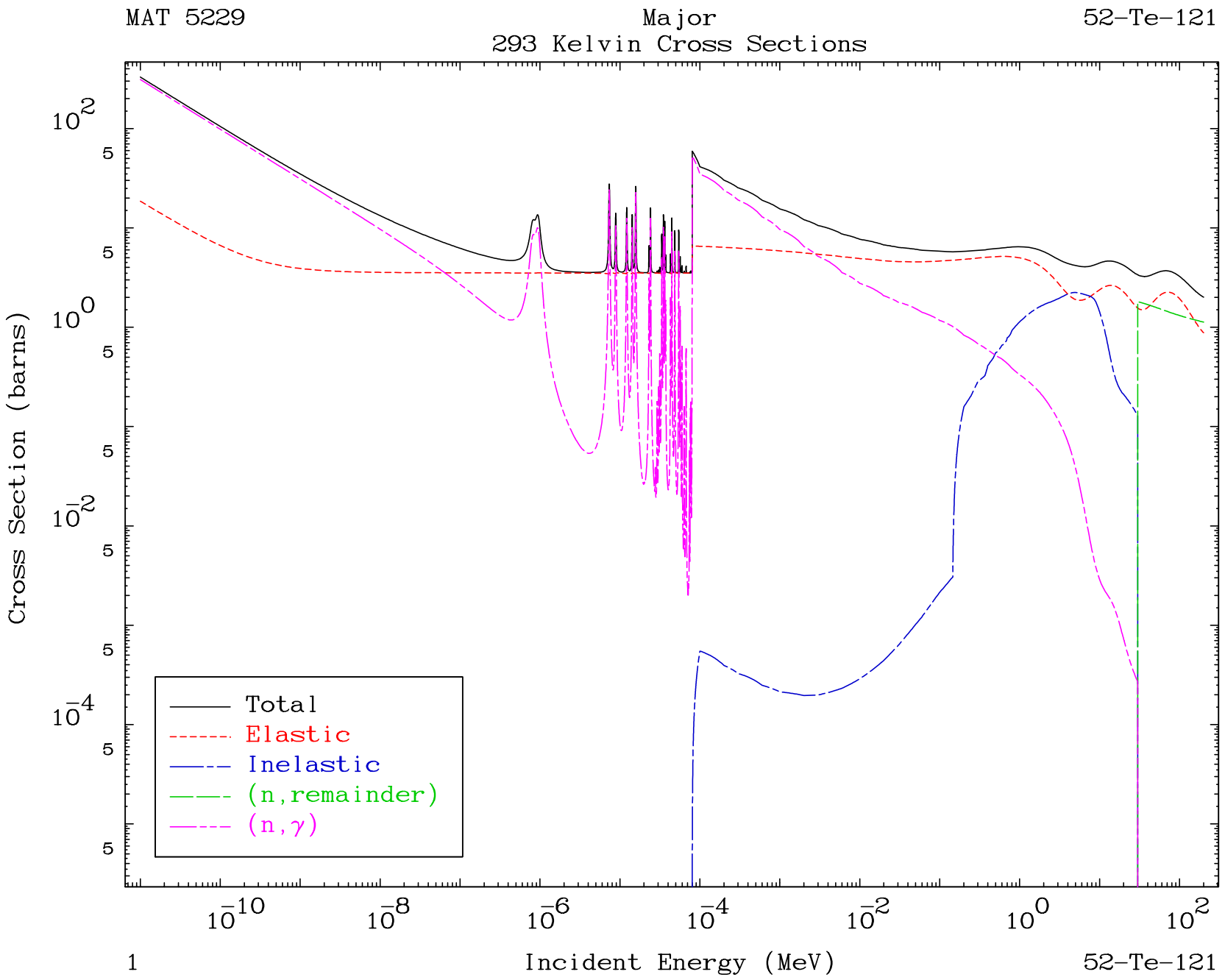
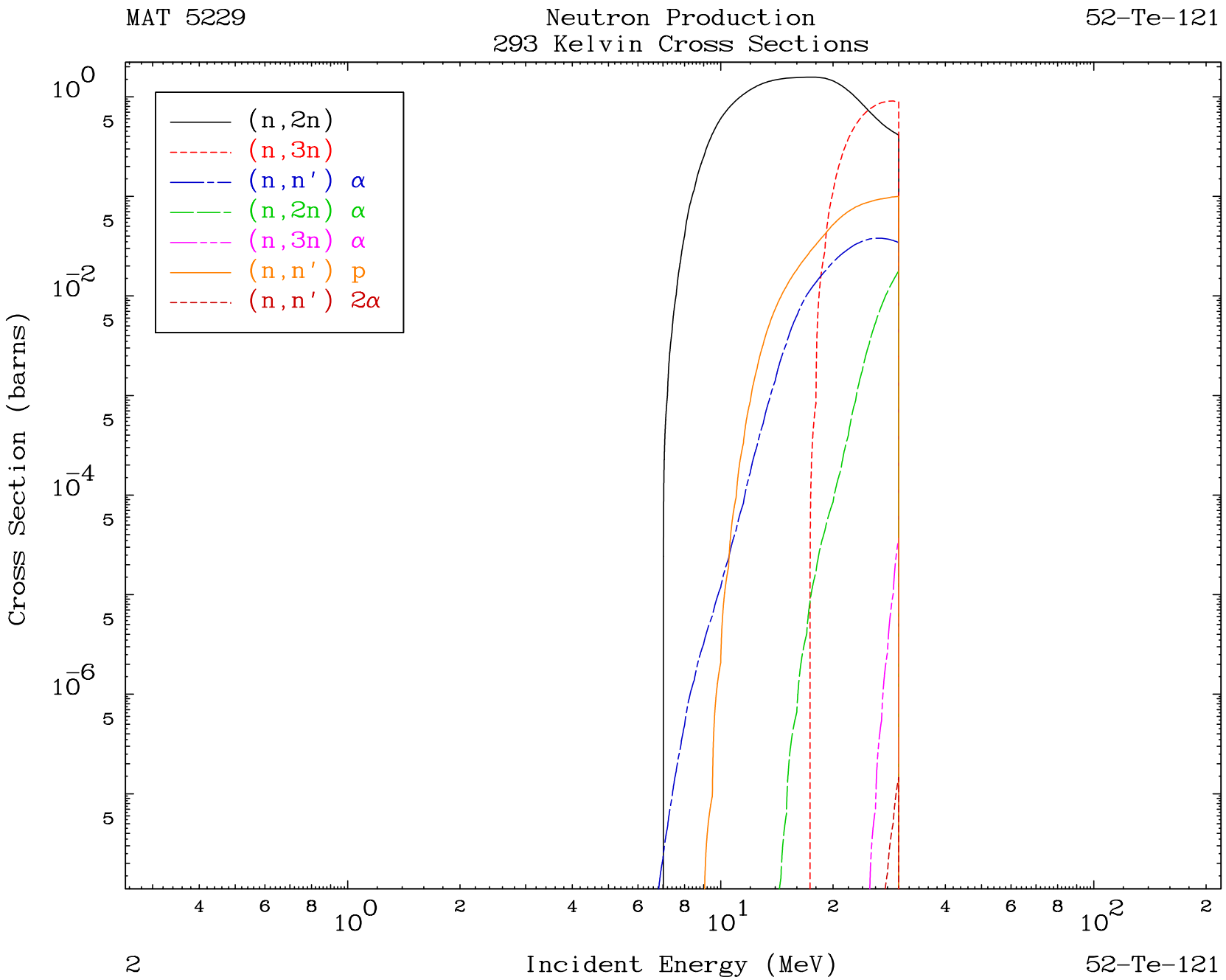
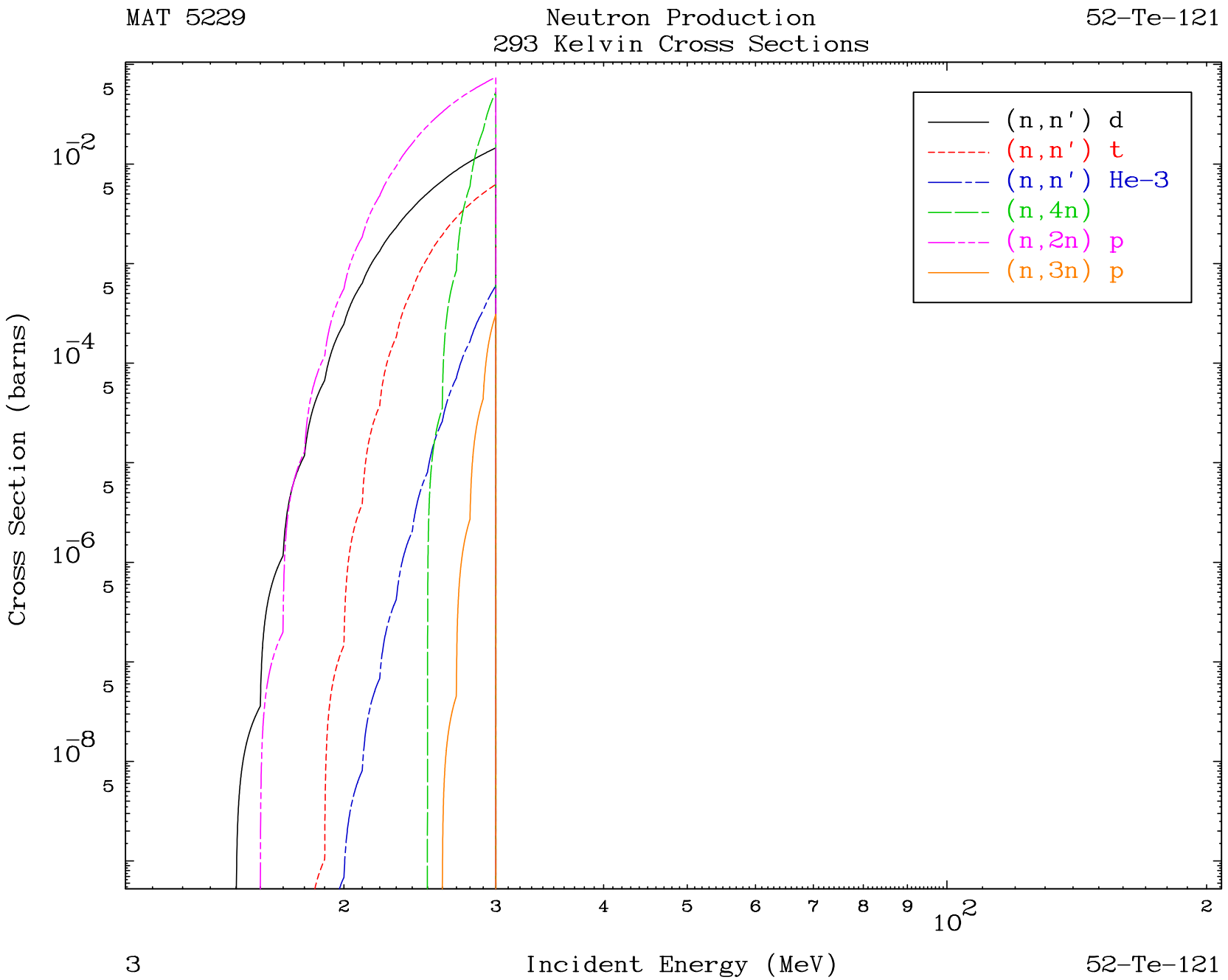
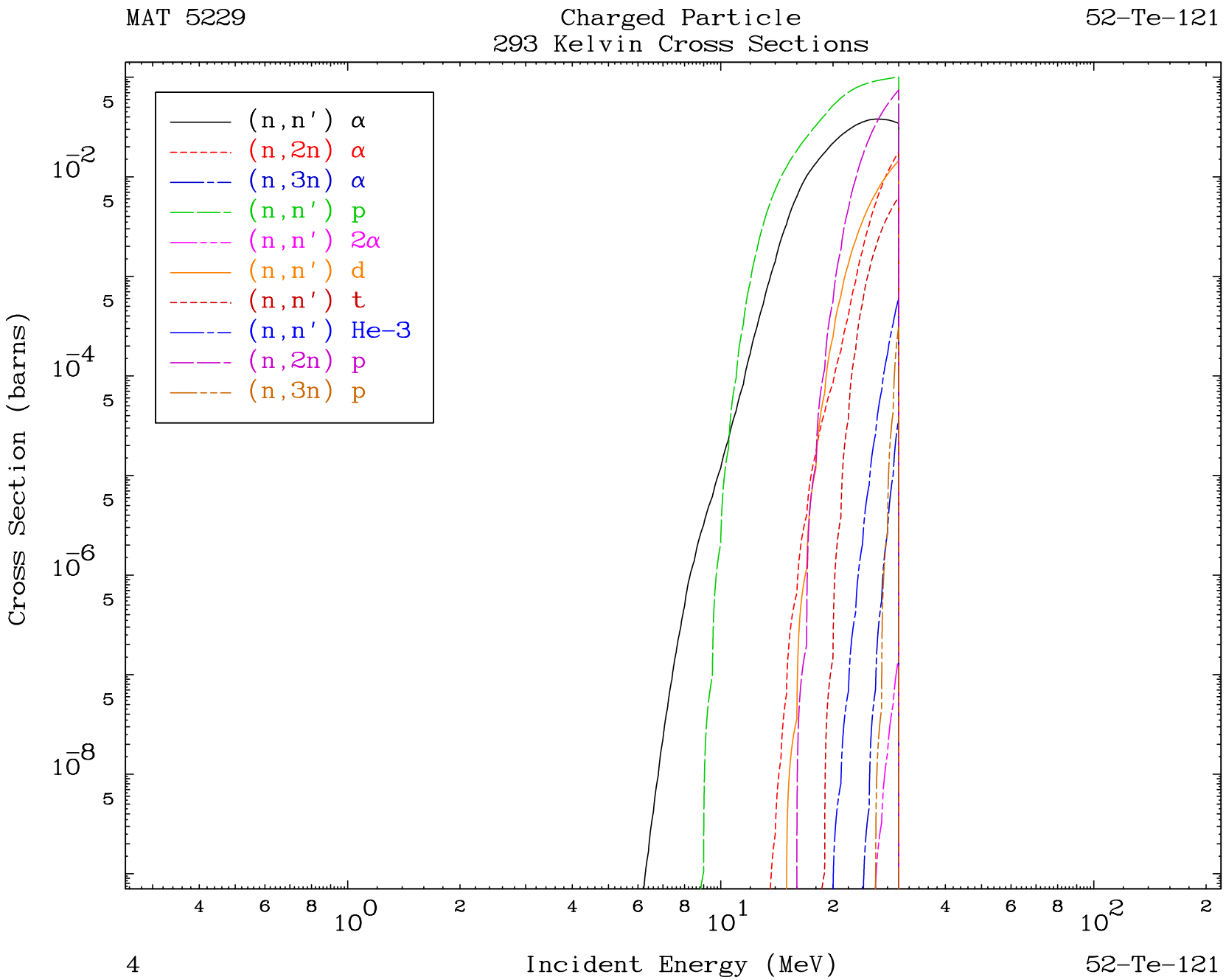
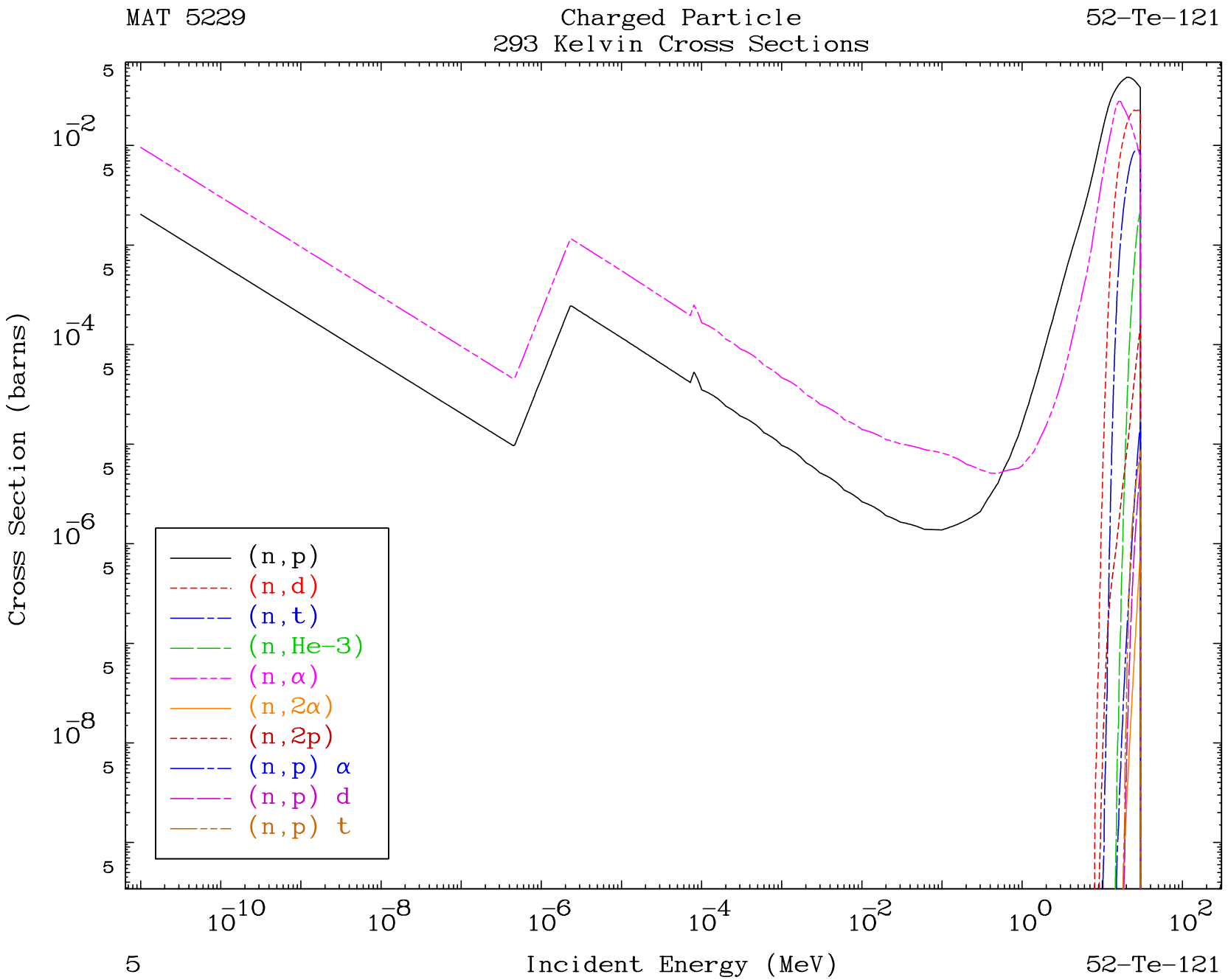
Press Mouse Button to Start

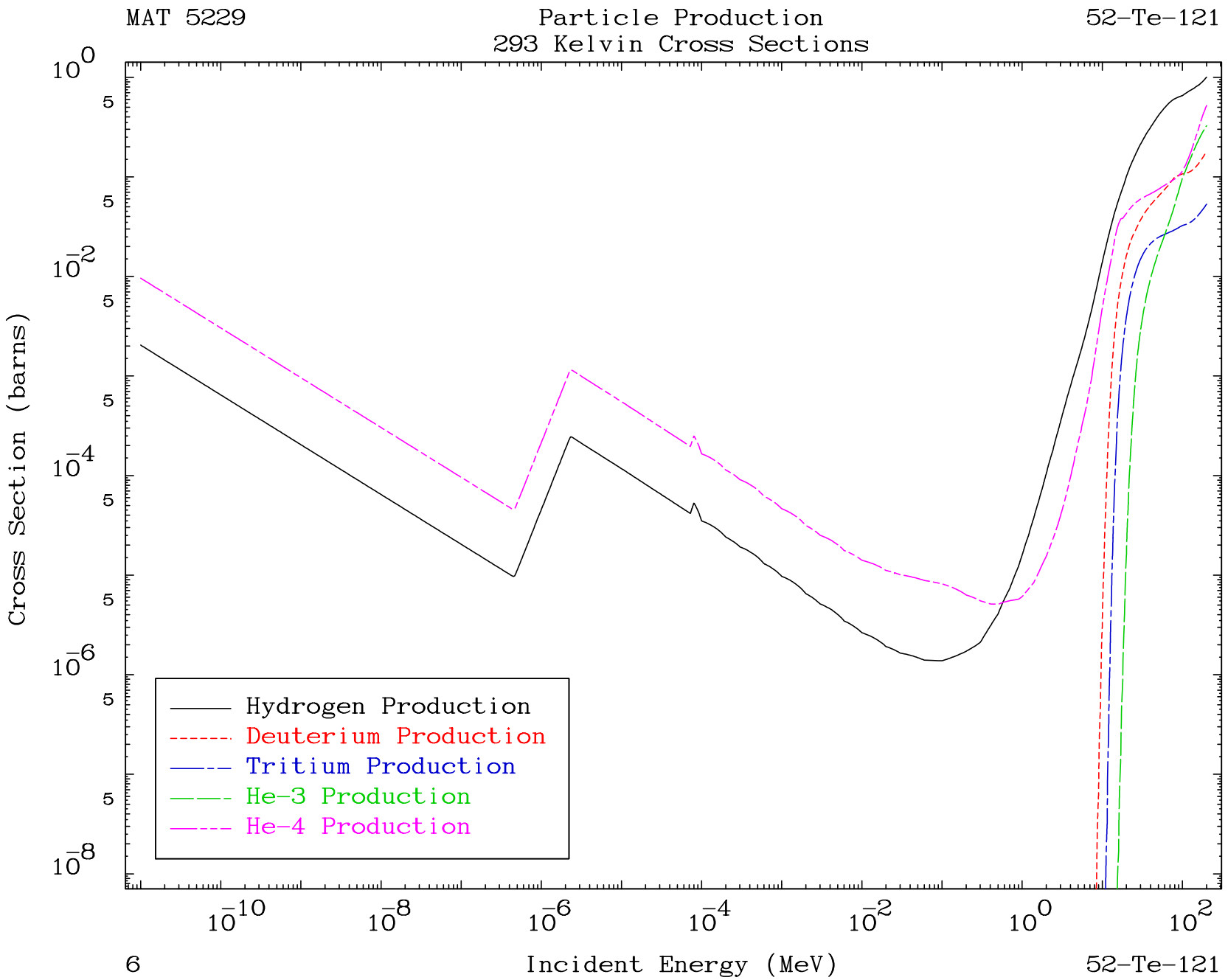

MAT 5229
Major
52-Te-121
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
52-Te-121

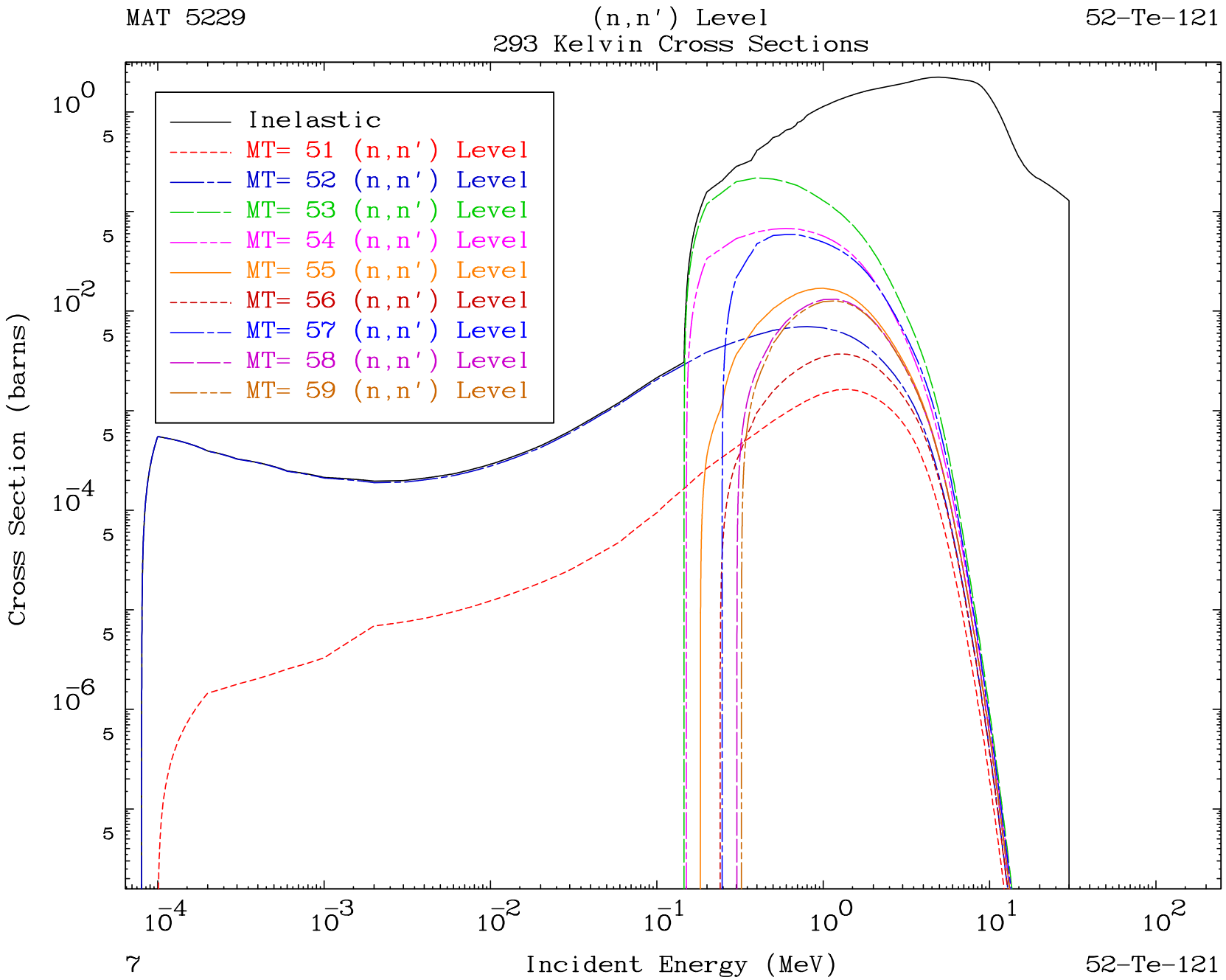

MAT 5229
Neutron Production
293 Kelvin Cross Sections
52-Te-121
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
52-Te-121
2

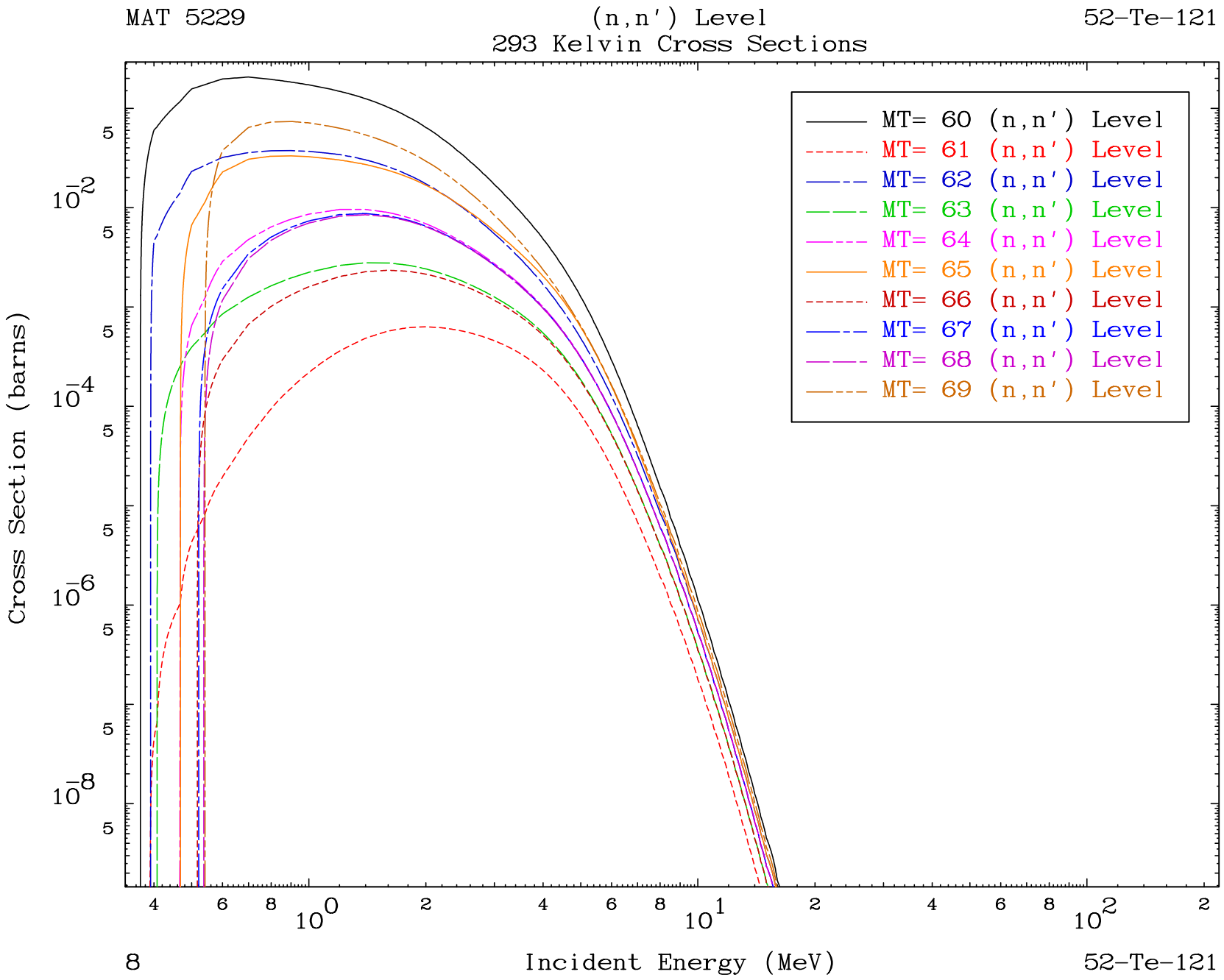

MAT 5229
Neutron Production
293 Kelvin Cross Sections
52-Te-121
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
52-Te-121

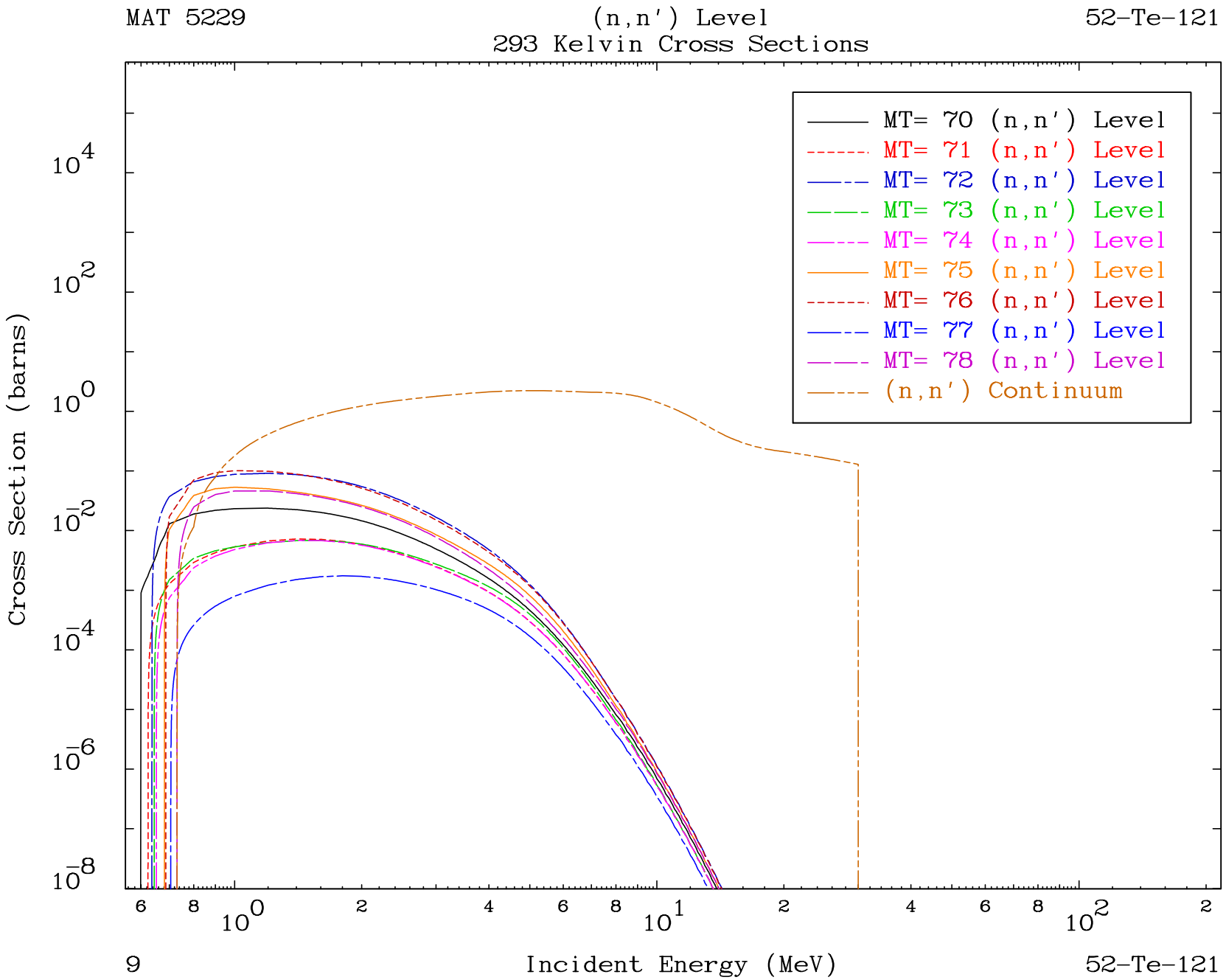

MAT 5229
Charged Particle
293 Kelvin Cross Sections
52-Te-121
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
52-Te-121

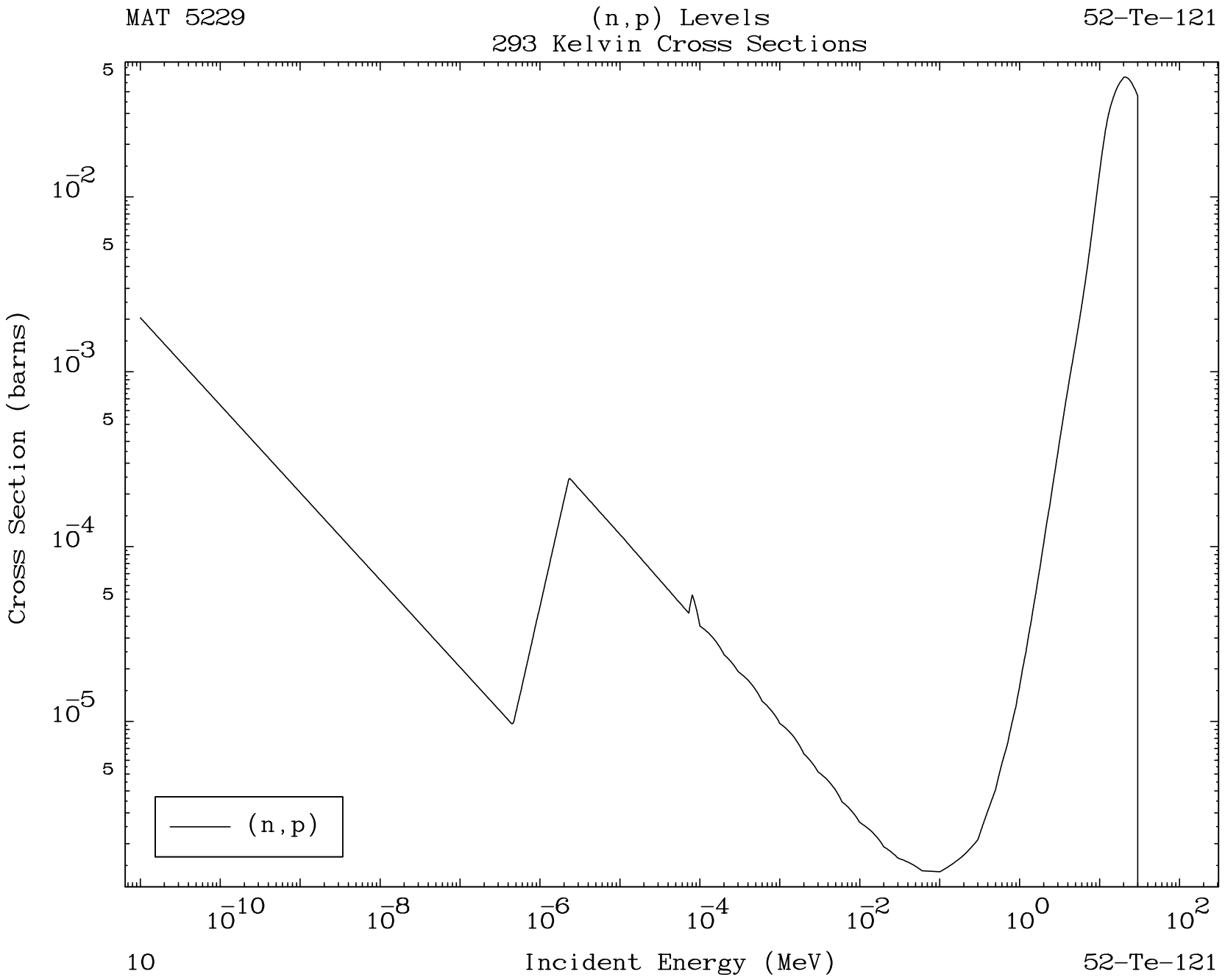

MAT 5229
Charged Particle
293 Kelvin Cross Sections
52-Te-121
Cross Section (barns)
Incident Energy (MeV)
52-Te-121
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t

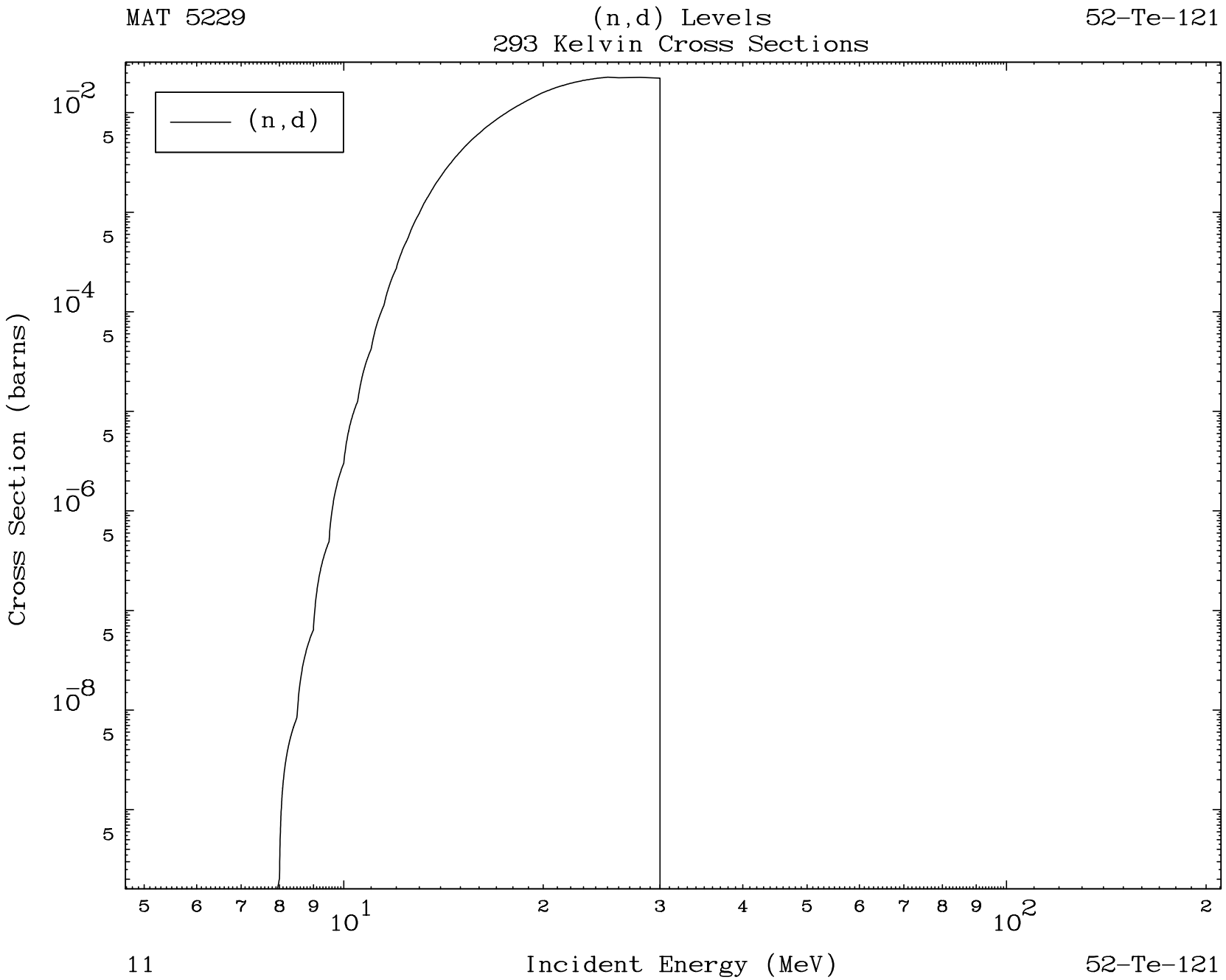

MAT 5229
Particle Production
293 Kelvin Cross Sections
52-Te-121
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
6
52-Te-121

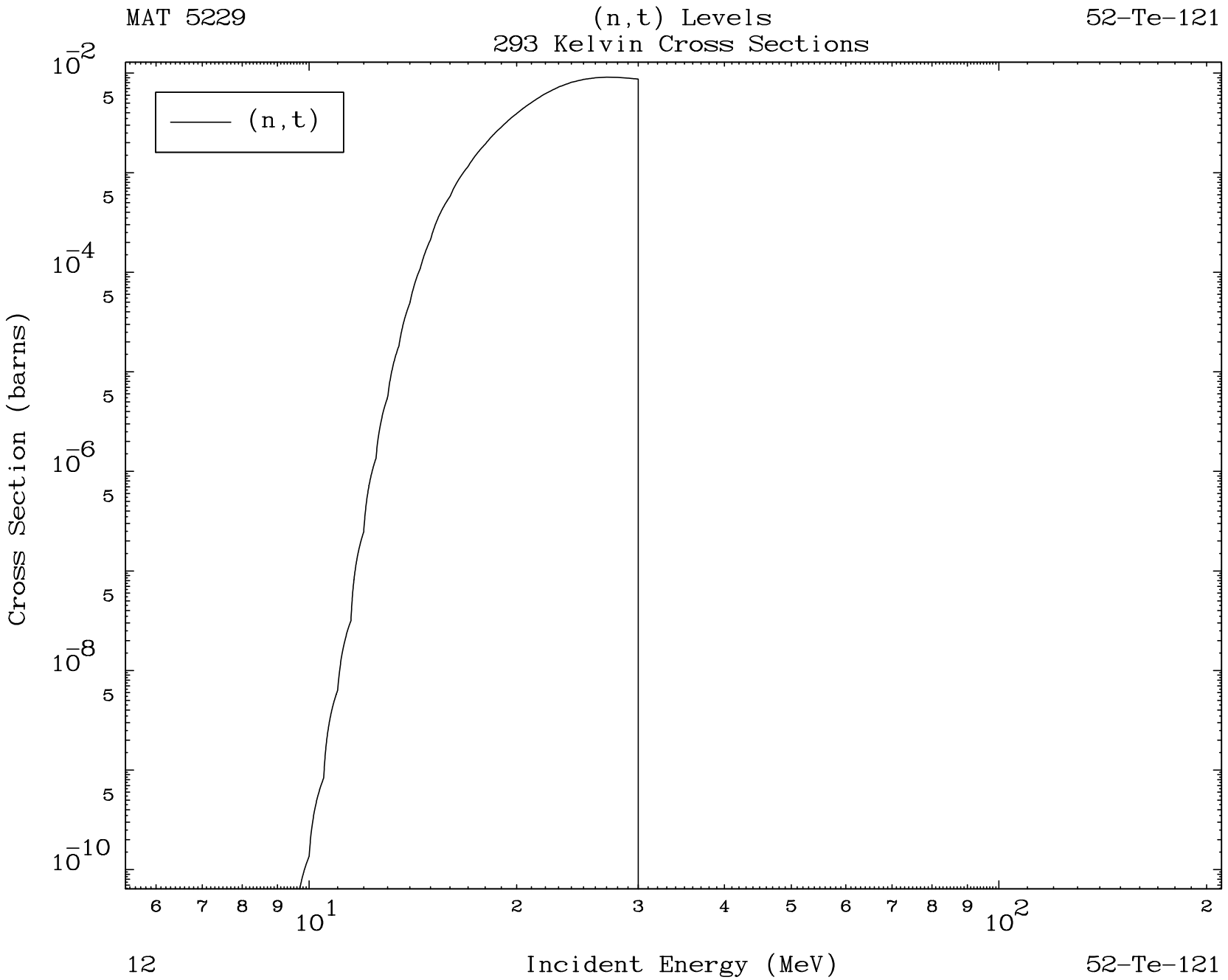

MAT 5229
(n,n') Level
293 Kelvin Cross Sections
52-Te-121
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
7
52-Te-121

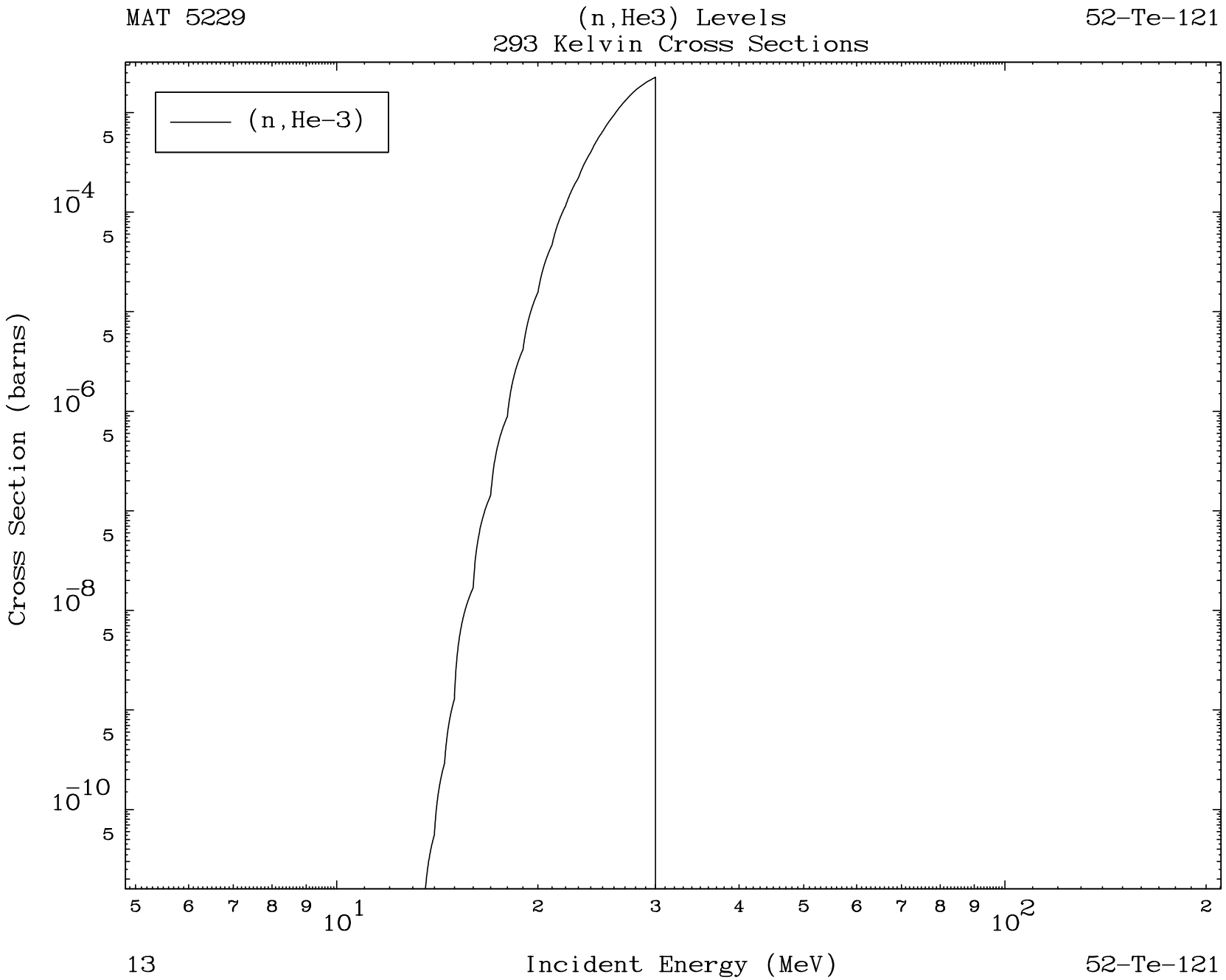

MAT 5229
(n,n') Level
293 Kelvin Cross Sections
52-Te-121
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
52-Te-121

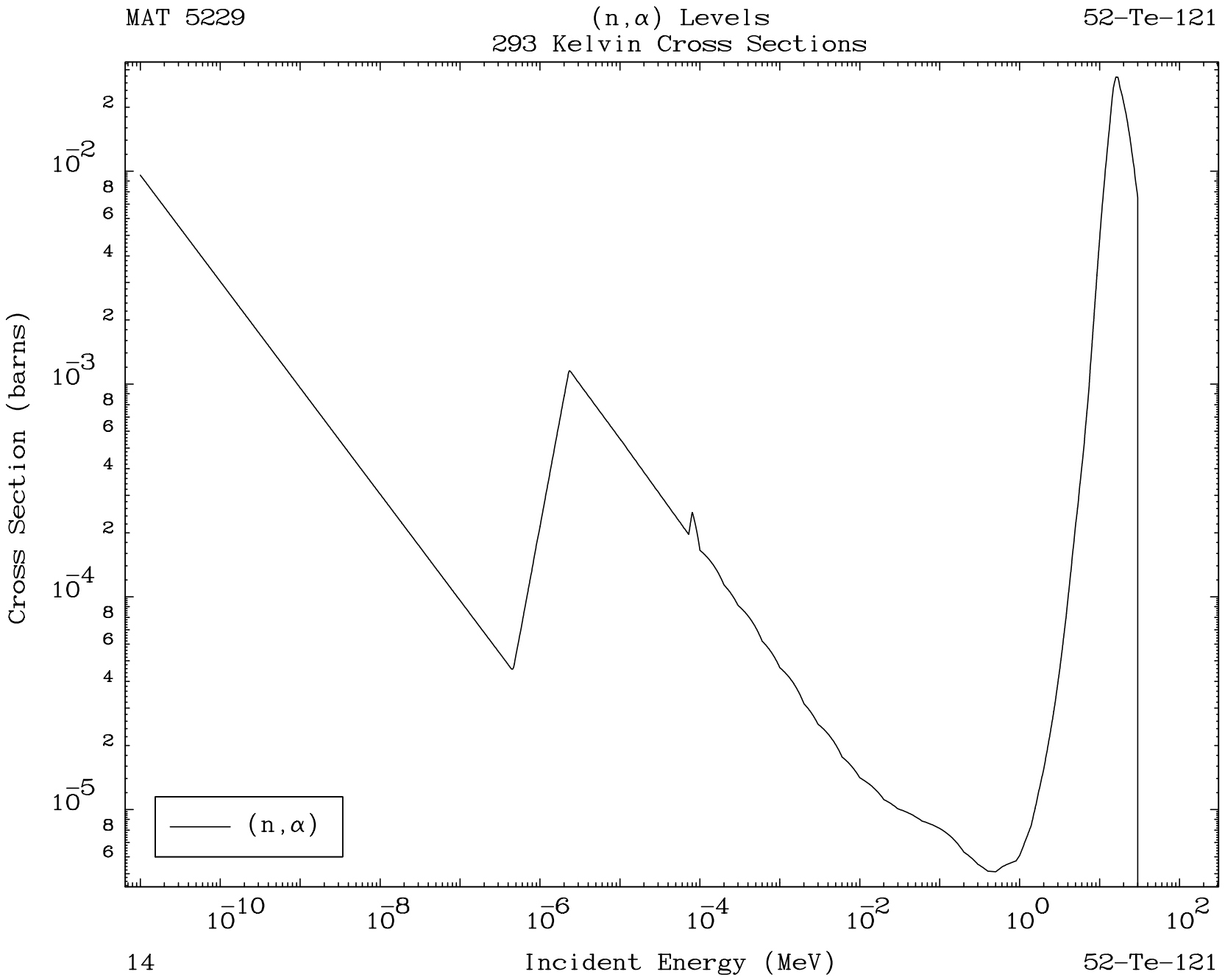

MAT 5229
(n,n') Level
293 Kelvin Cross Sections
52-Te-121
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
52-Te-121

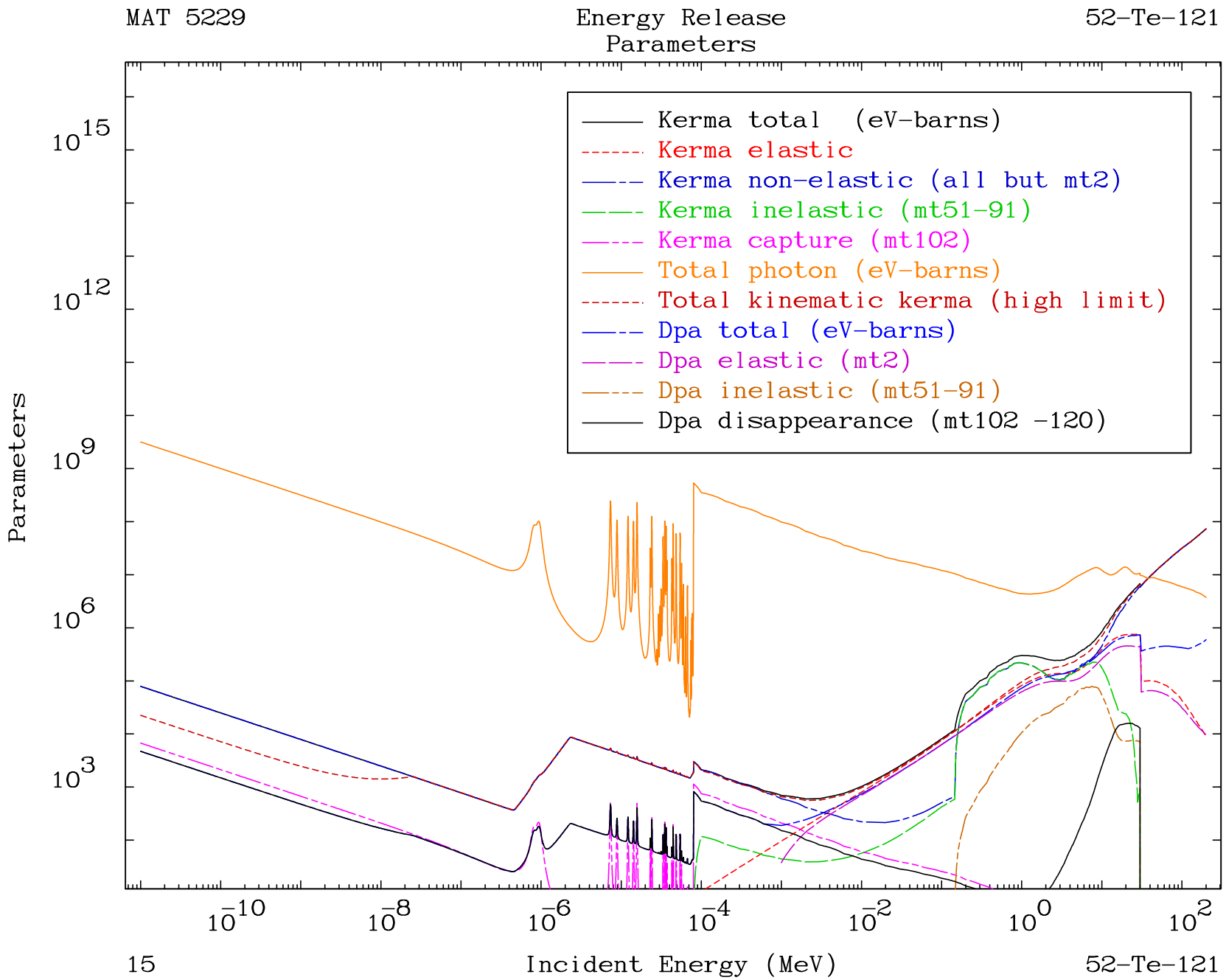

MAT 5229
(n,p) Levels
52-Te-121
293 Kelvin Cross Sections
Cross Section (barns)
5
10^-2
5
10^-3
5
10^-4
5
10^-5
5
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
10
Incident Energy (MeV)
52-Te-121

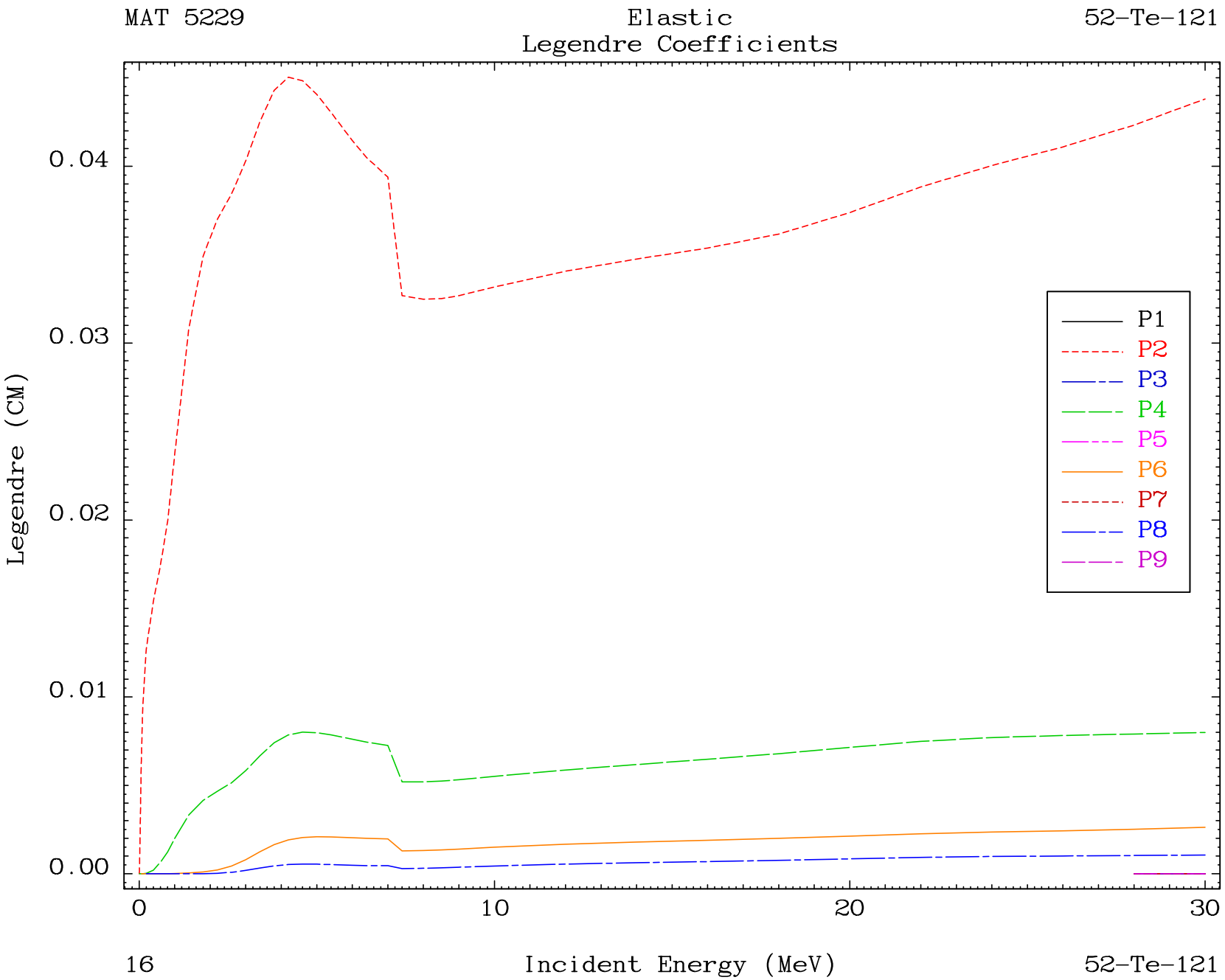

MAT 5229
(n,d) Levels
52-Te-121
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6
7
8
9
10 1
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
52-Te-121

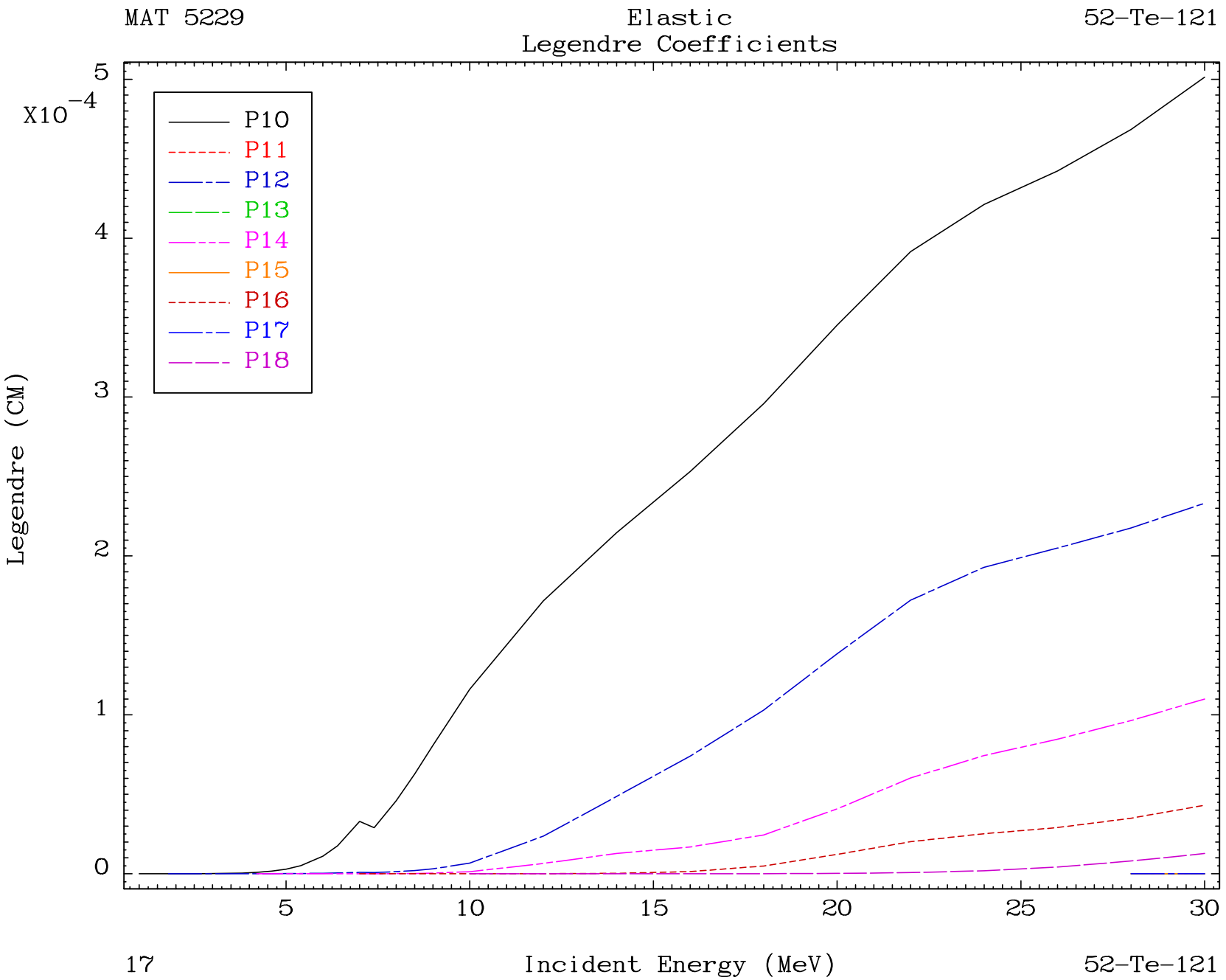

MAT 5229
(n,t) Levels
52-Te-121
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
52-Te-121

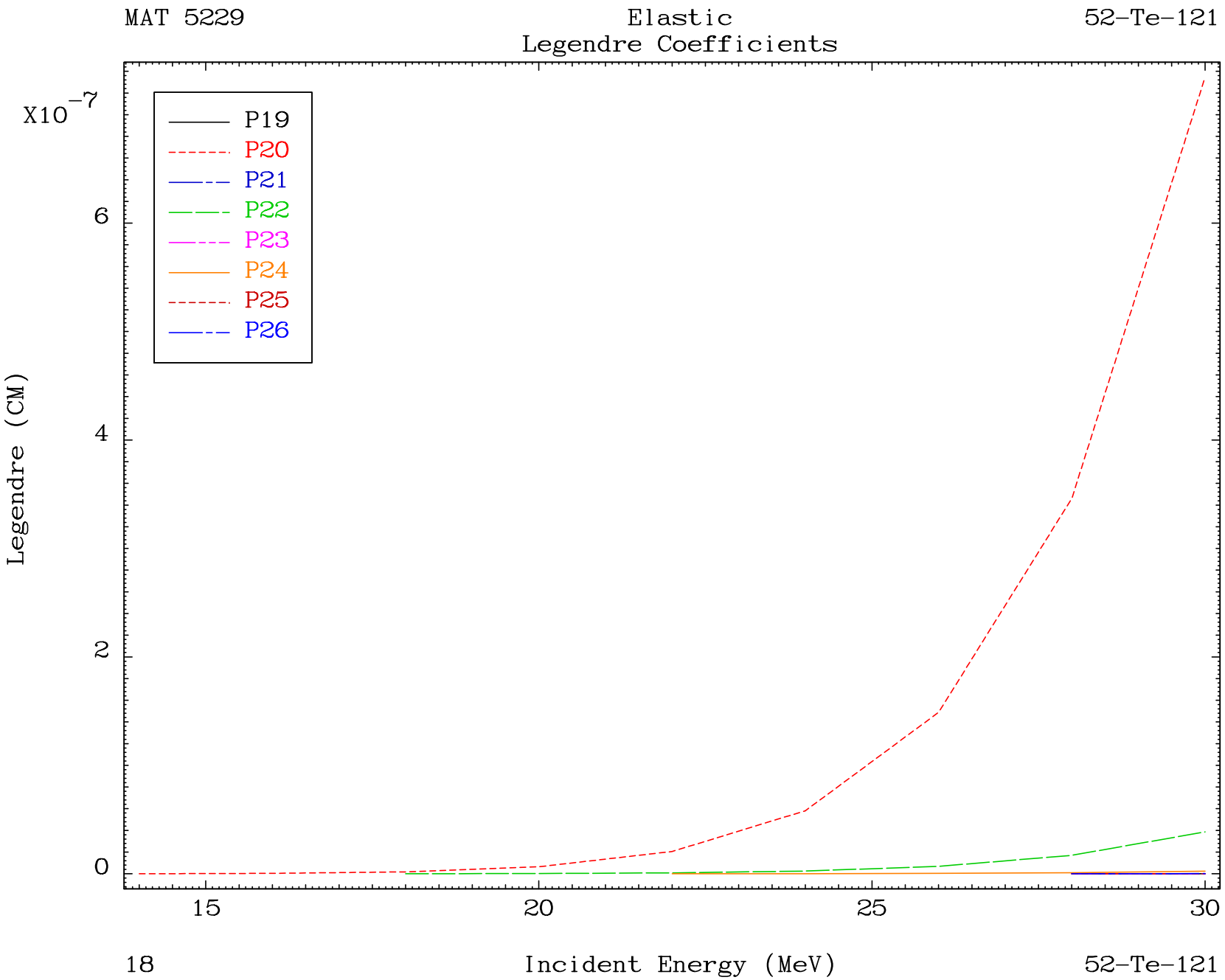

MAT 5229
(n,He3) Levels
52-Te-121
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
6
7
8
9
10 1
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
52-Te-121

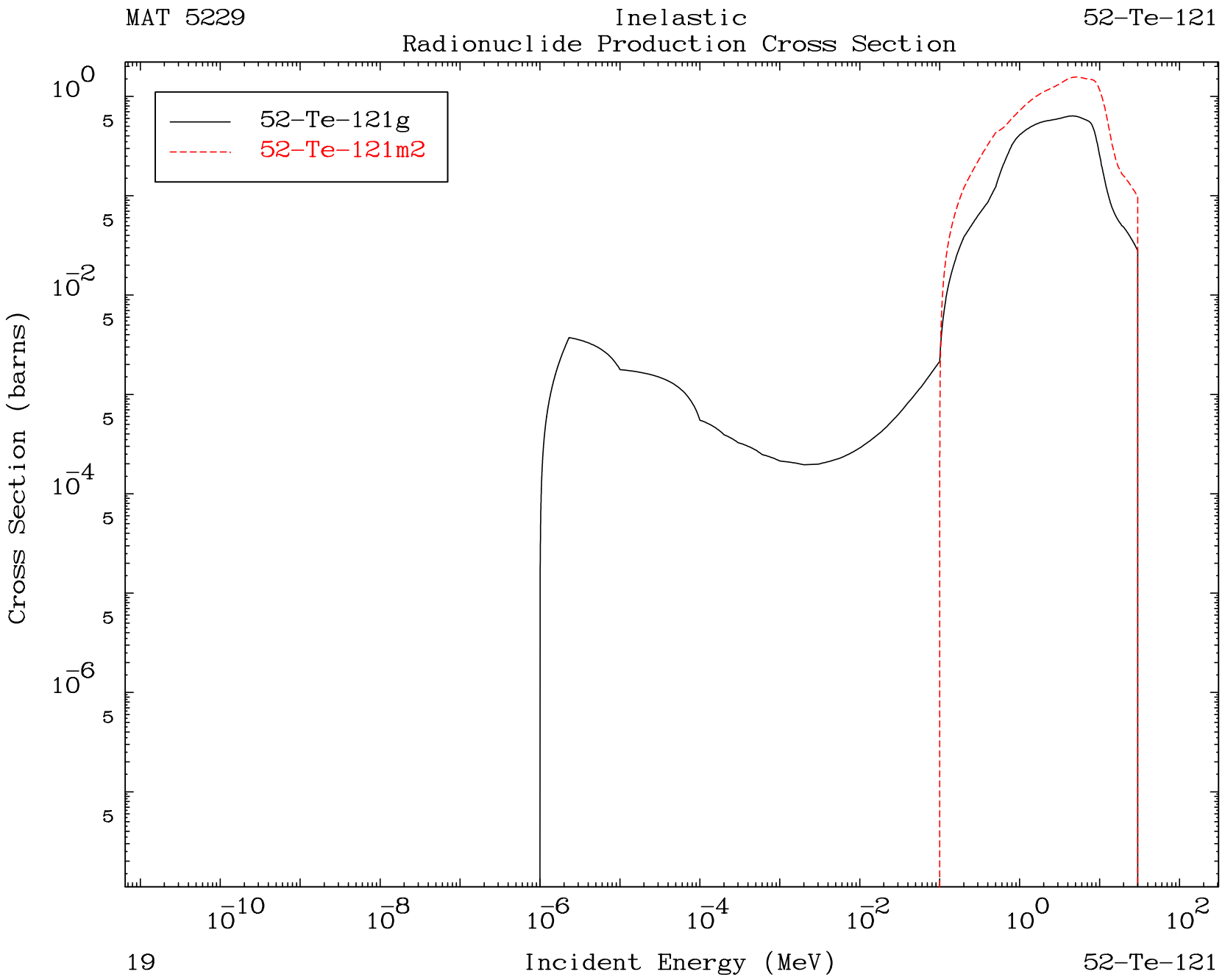

MAT 5229
(n,α) Levels
52-Te-121
293 Kelvin Cross Sections
Cross Section (barns)
10^-2
10^-3
10^-4
10^-5
(n,α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
14
52-Te-121

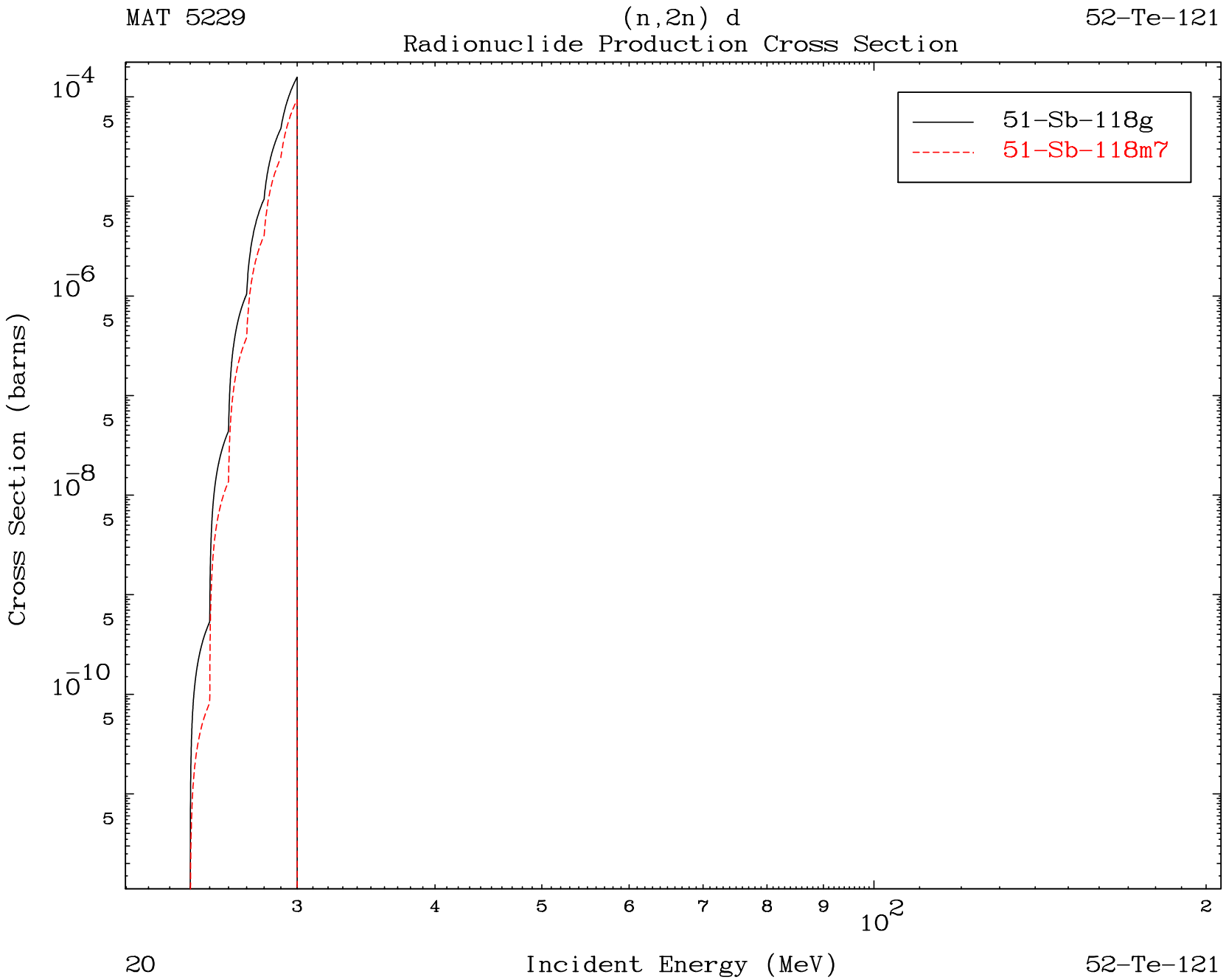

MAT 5229
Energy Release
Parameters
52-Te-121
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{15}
10^{12}
10^{9}
10^{6}
10^{3}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
15
Incident Energy (MeV)
52-Te-121

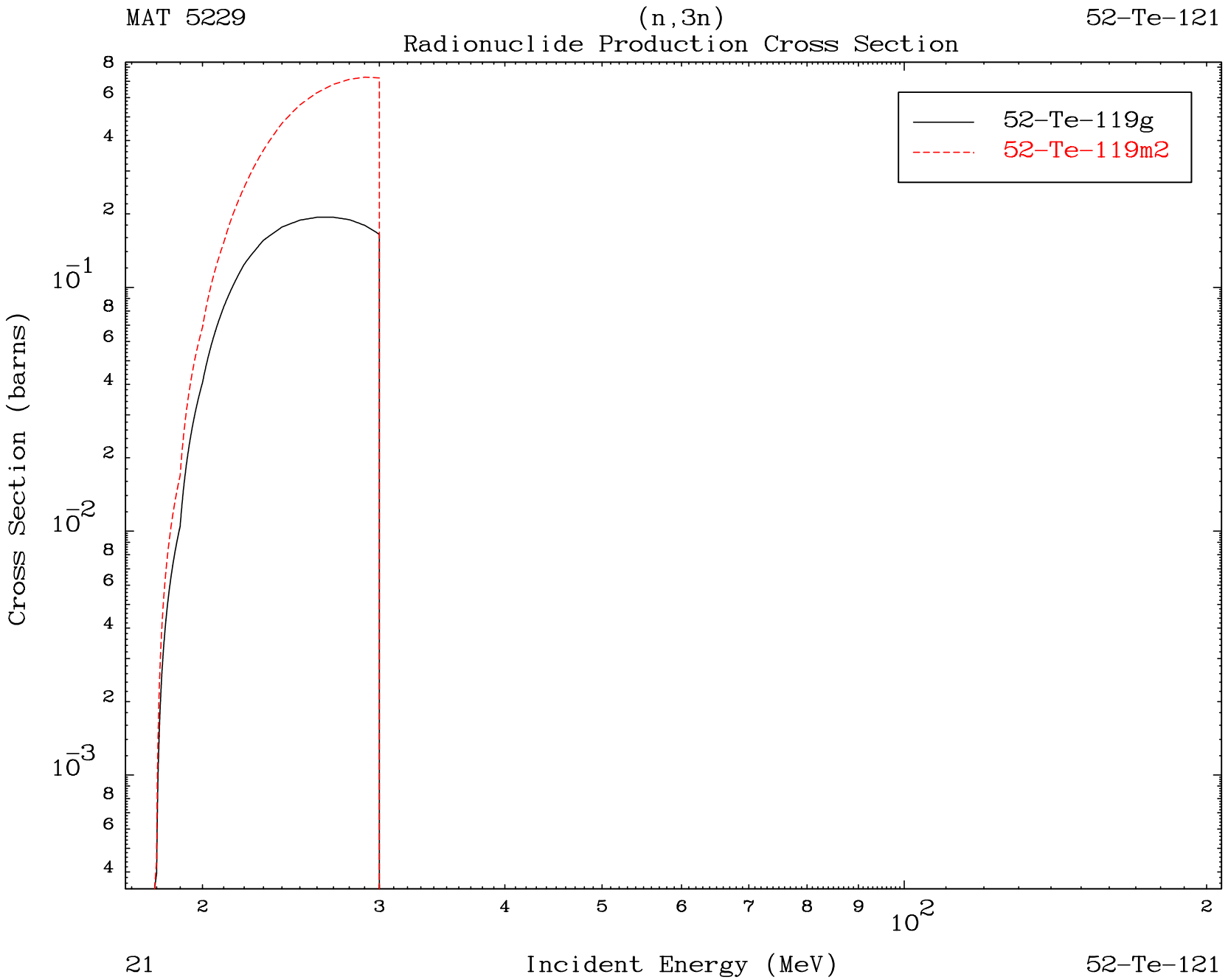

MAT 5229
Elastic
Legendre Coefficients
52-Te-121
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
16
Incident Energy (MeV)
52-Te-121

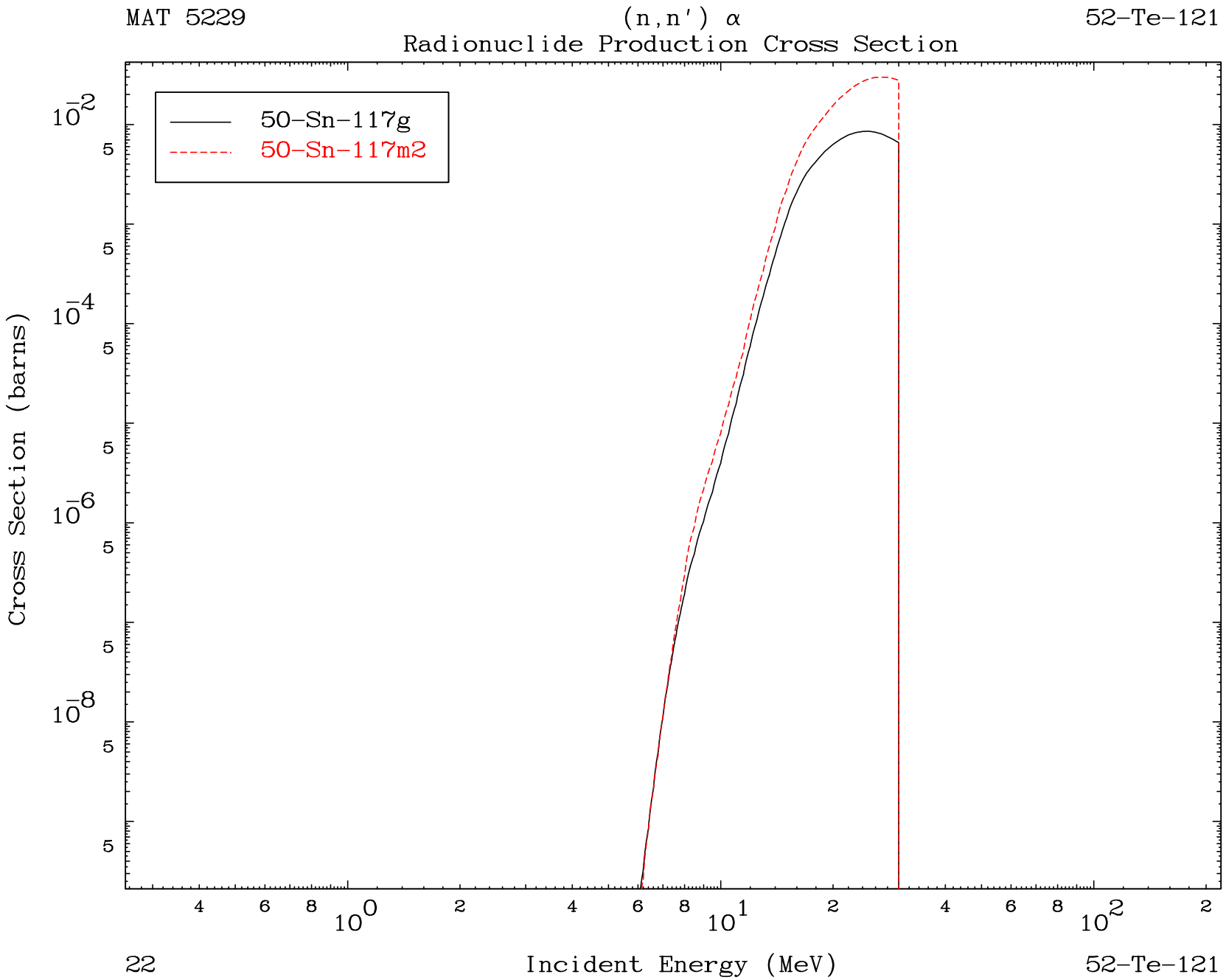

MAT 5229
Elastic
Legendre Coefficients
52-Te-121
X10 −4
5
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
17
Incident Energy (MeV)
52-Te-121

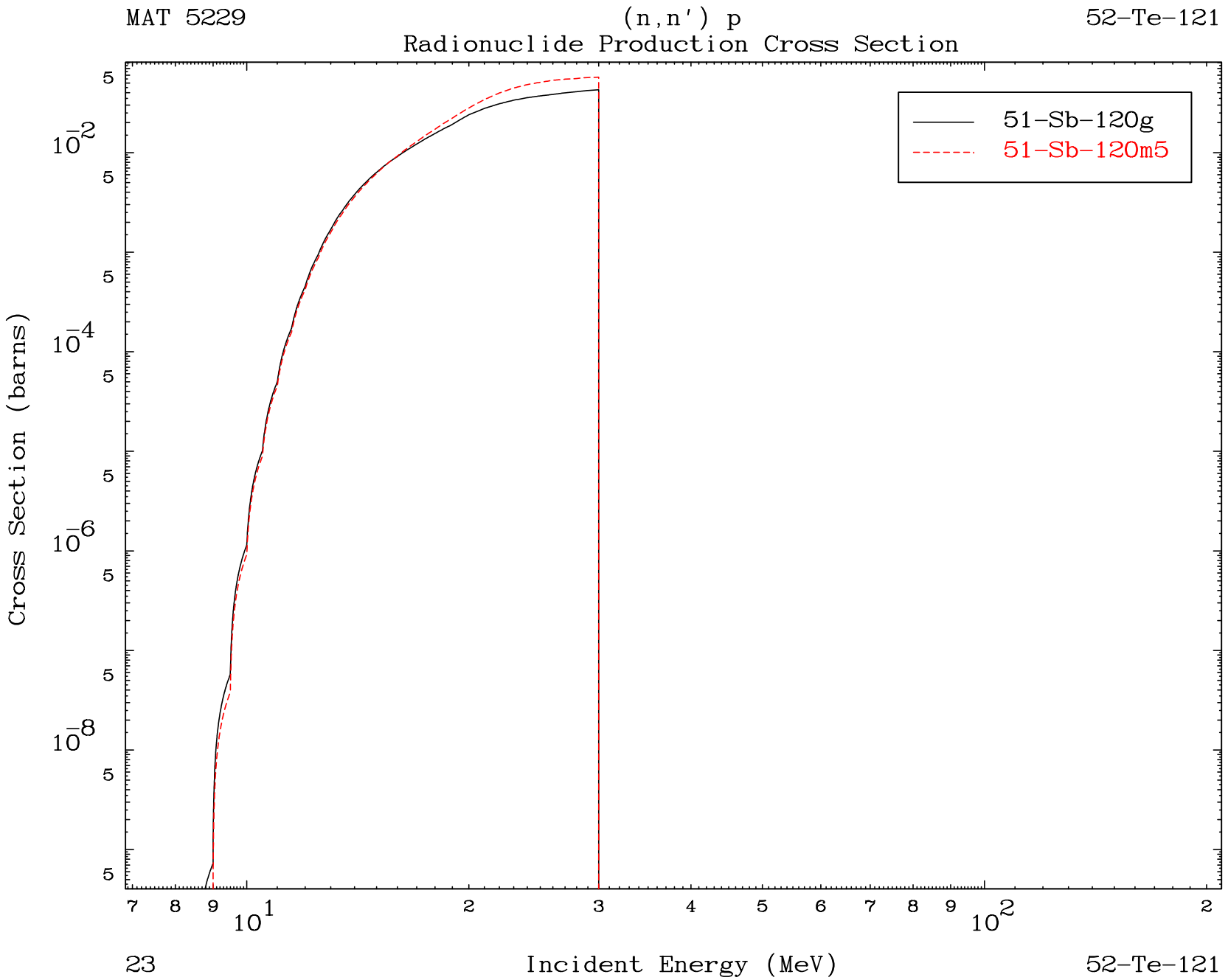

MAT 5229
Elastic
Legendre Coefficients
52-Te-121
X10^{-7}
P19
P20
P21
P22
P23
P24
P25
P26
Legendre (CM)
6
4
2
0
15
20
25
30
18
Incident Energy (MeV)
52-Te-121

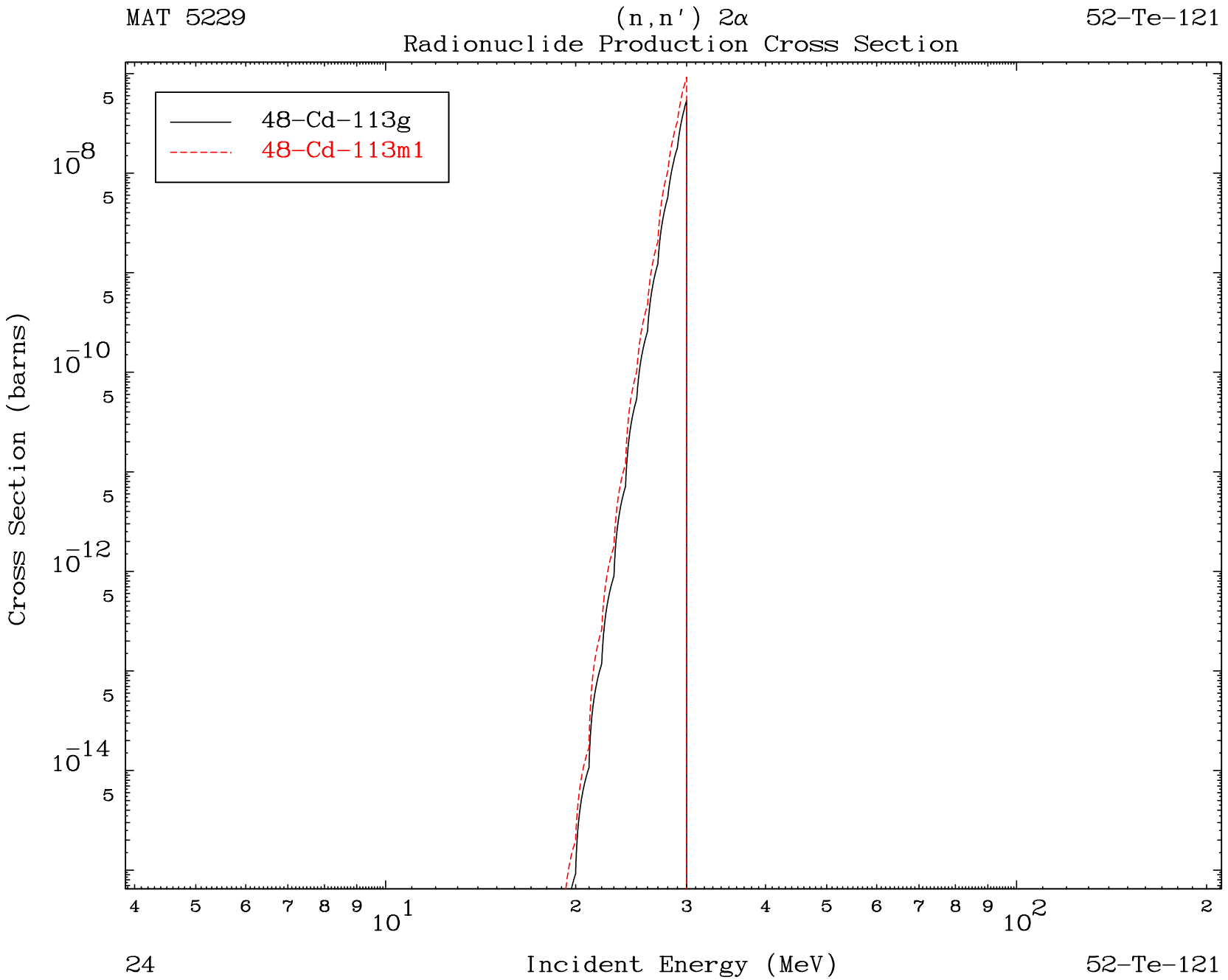

MAT 5229
Inelastic
52-Te-121
Radionuclide Production Cross Section
52-Te-121g
52-Te-121m2
Cross Section (barns)
Incident Energy (MeV)
19
52-Te-121

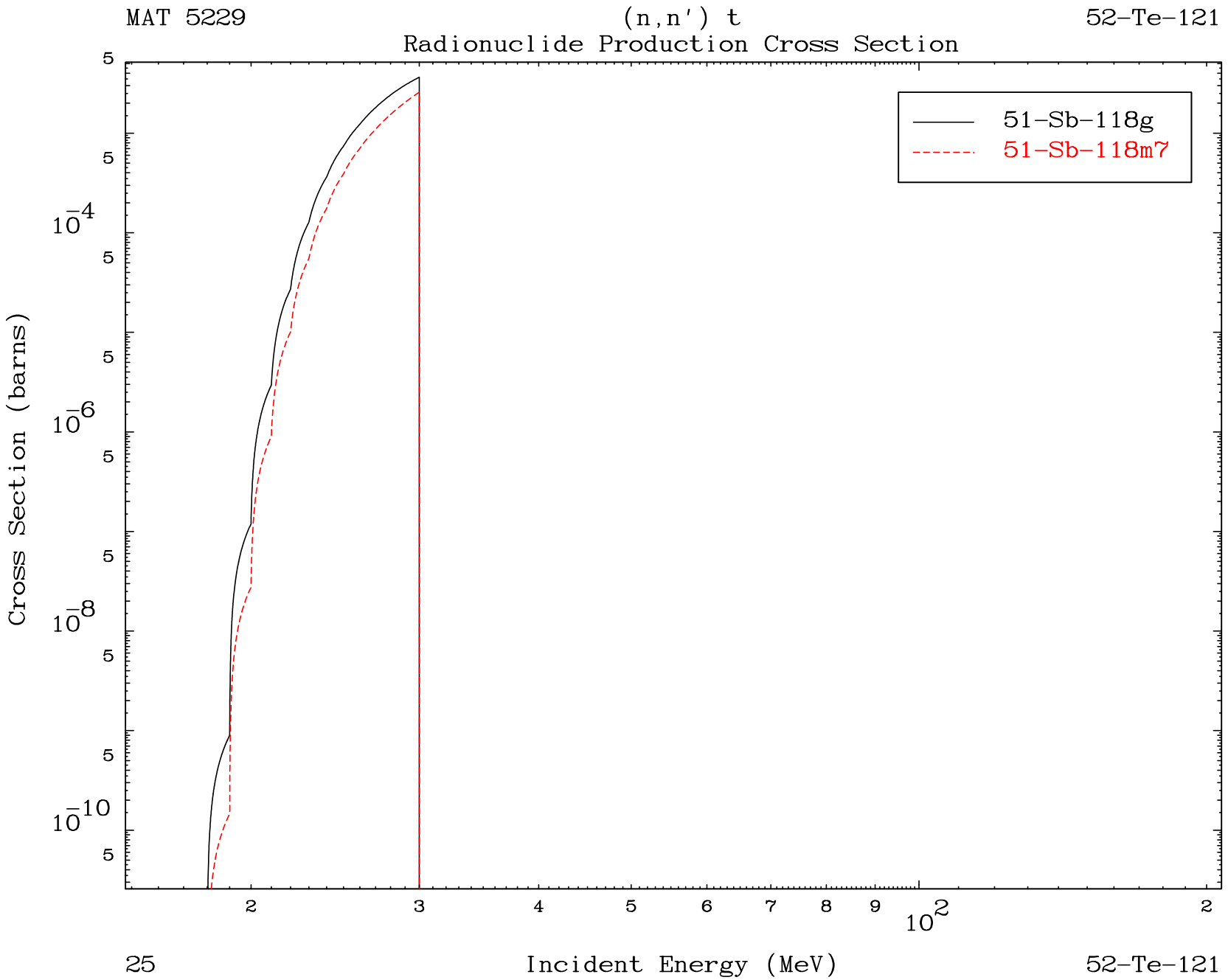

MAT 5229
(n,2n) d
52-Te-121
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
Incident Energy (MeV)
20
52-Te-121

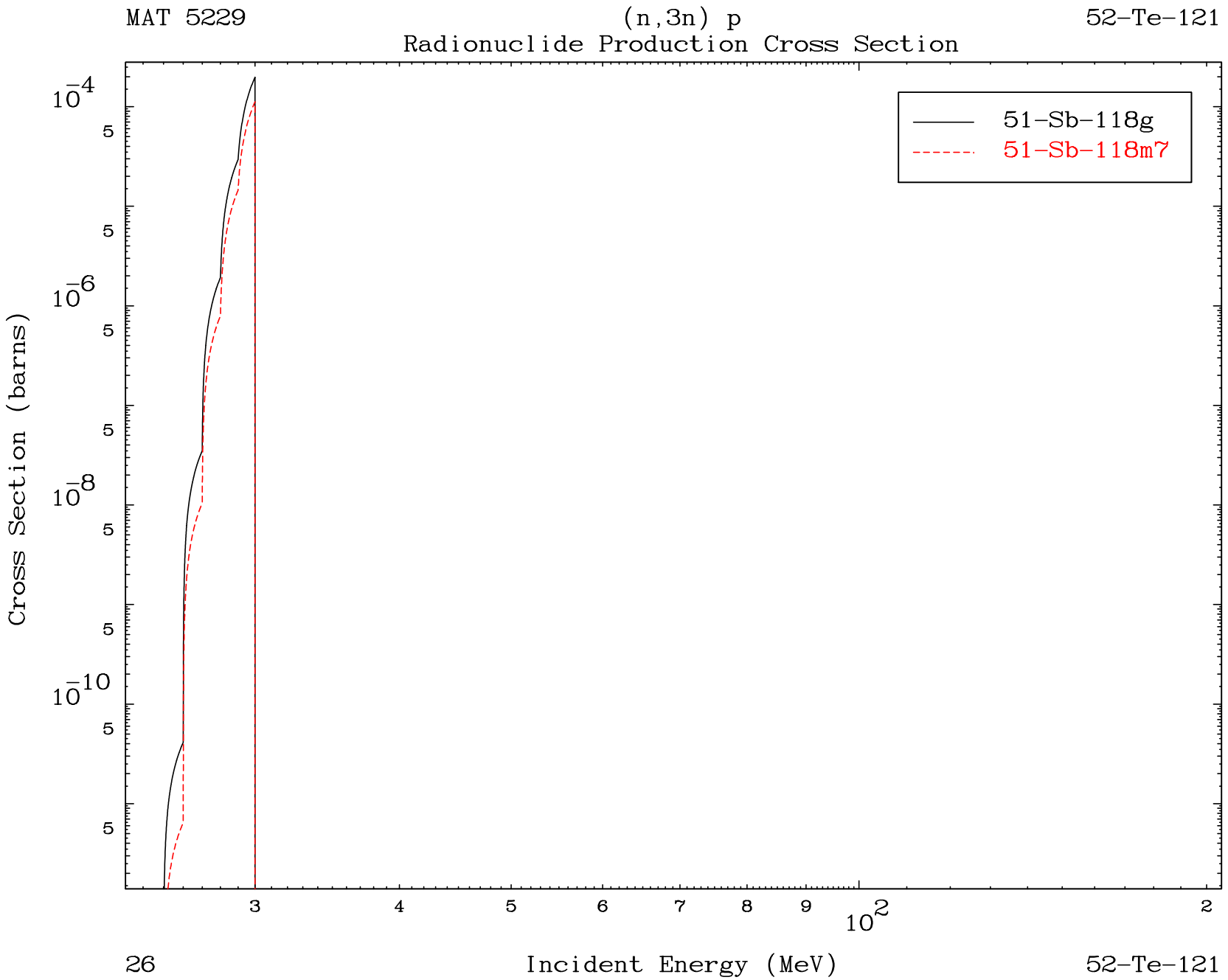

MAT 5229
(n,3n)
52-Te-121
Radionuclide Production Cross Section
52-Te-119g
52-Te-119m2
Cross Section (barns)
Incident Energy (MeV)
21
52-Te-121

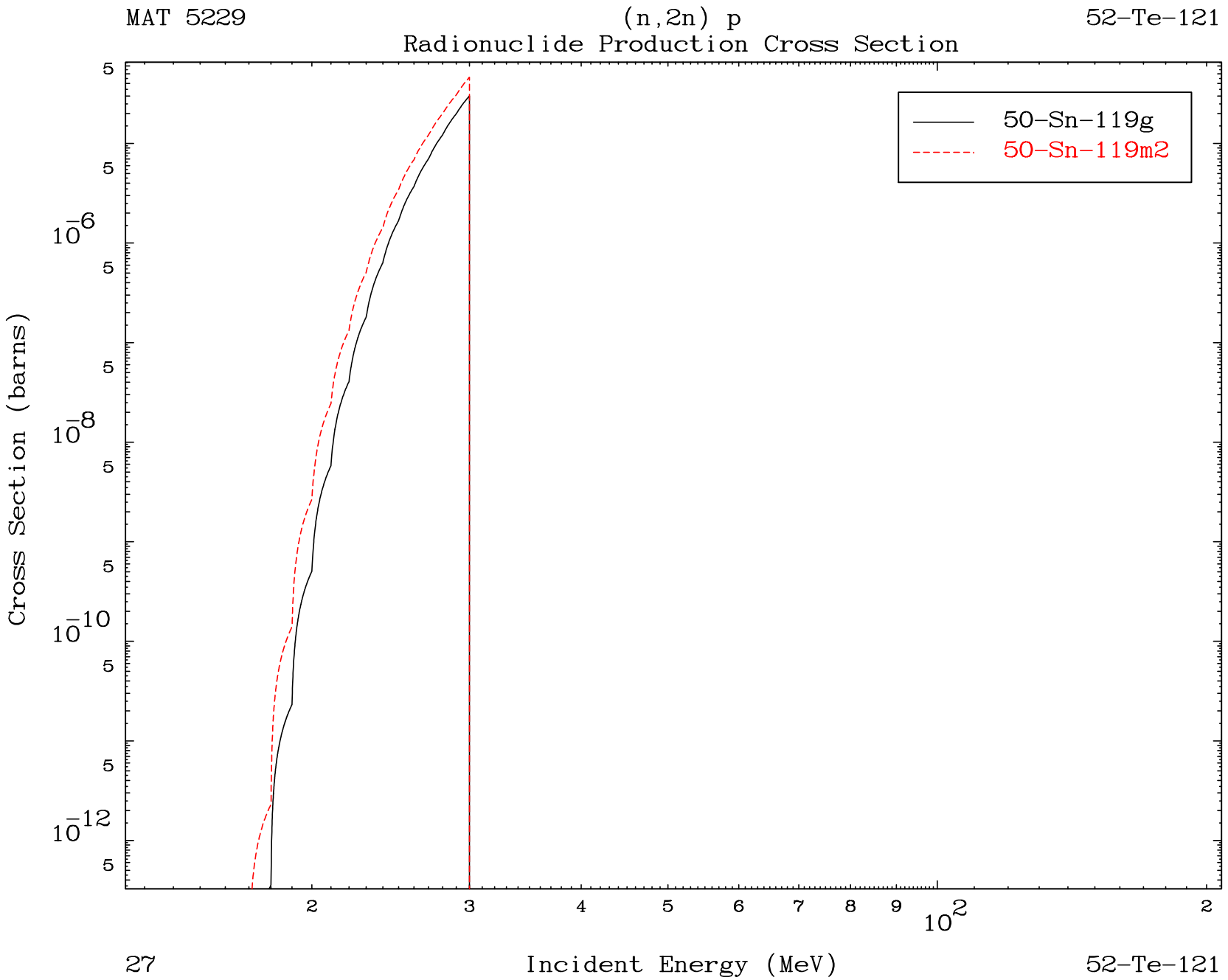

MAT 5229
(n,n') α
52-Te-121
Radionuclide Production Cross Section
50-Sn-117g
50-Sn-117m2
Cross Section (barns)
Incident Energy (MeV)
22
52-Te-121

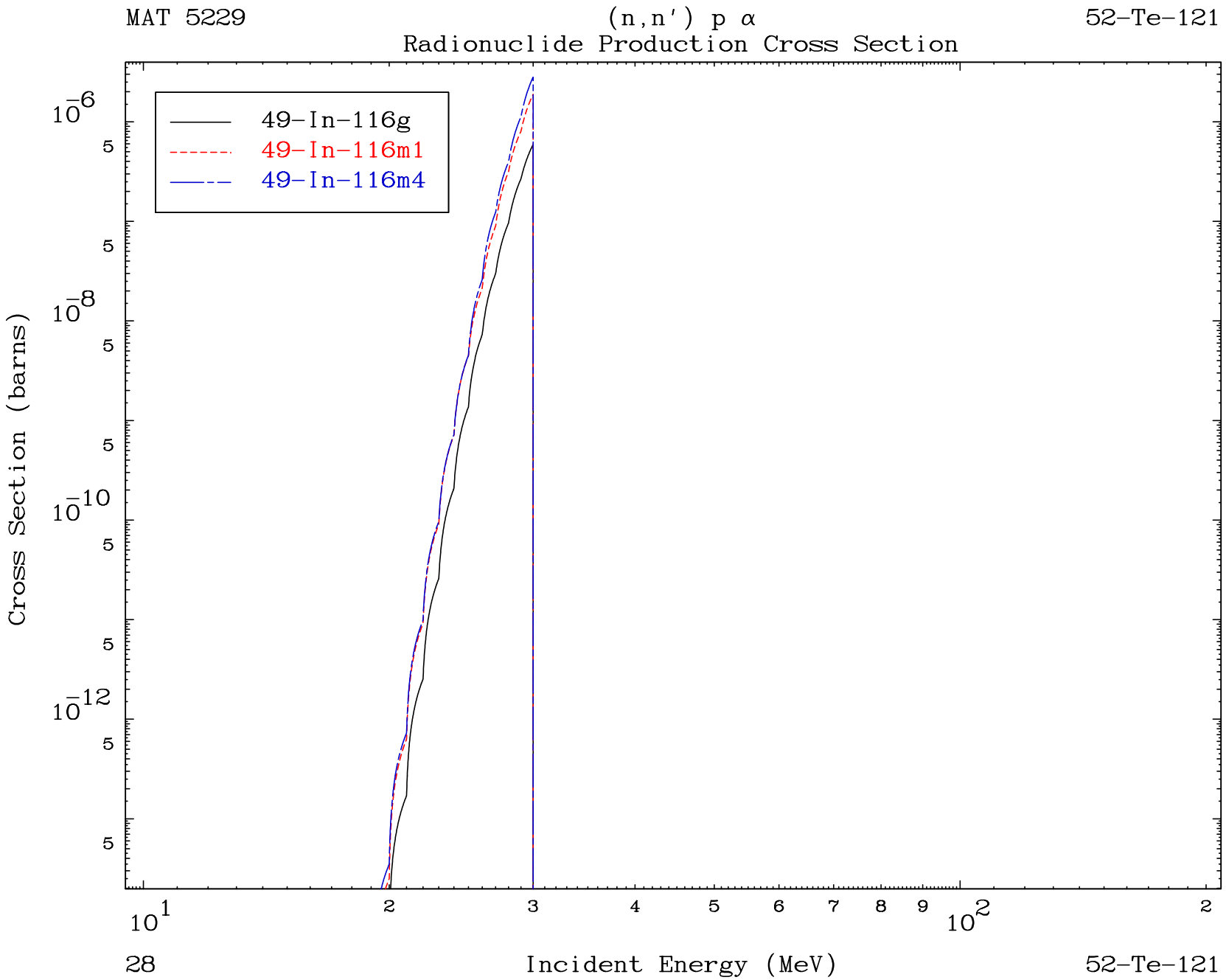

MAT 5229
(n,n') p
52-Te-121
Radionuclide Production Cross Section
51-Sb-120g
51-Sb-120m5
Cross Section (barns)
Incident Energy (MeV)
23
52-Te-121

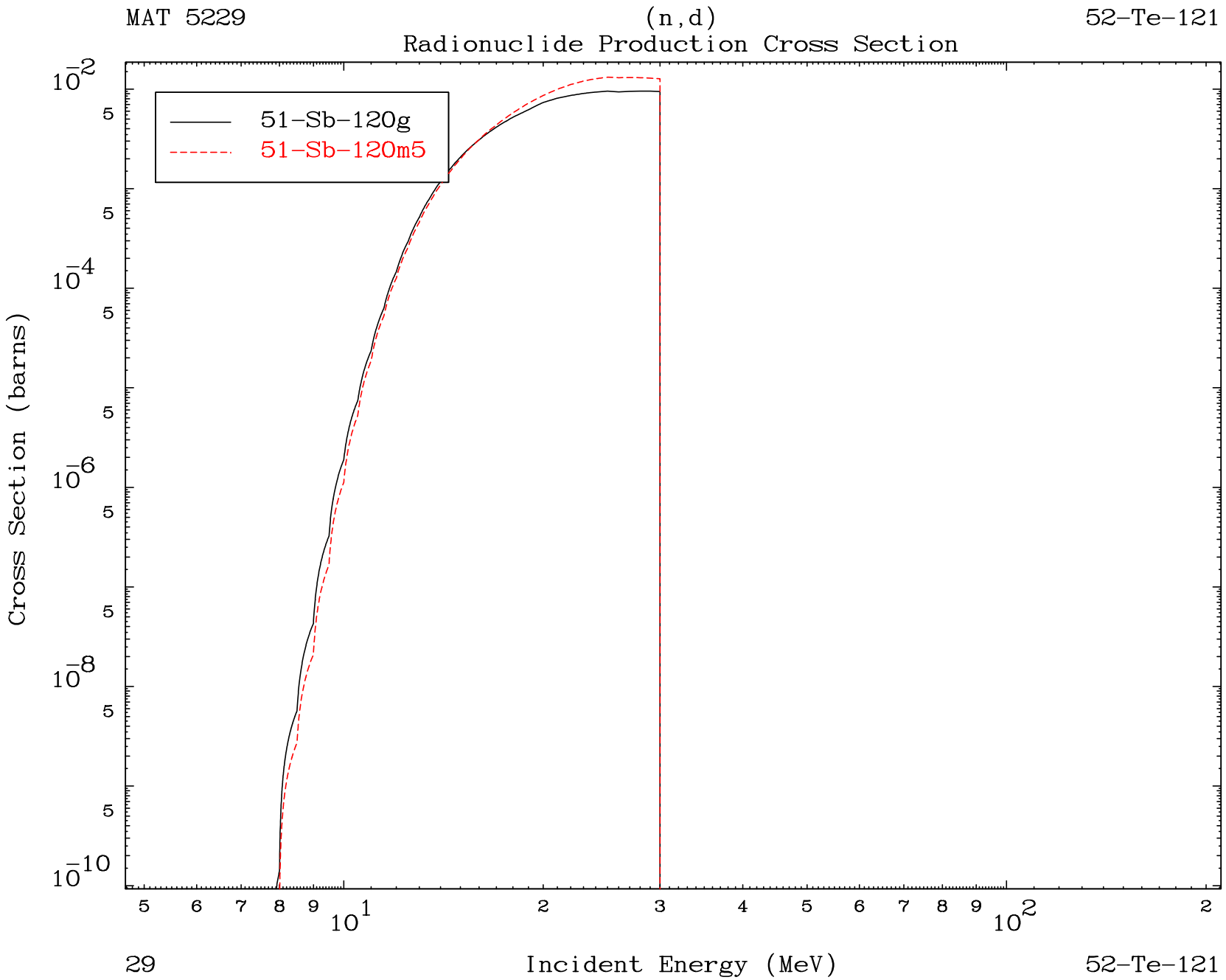

MAT 5229
(n,n') 2α
52-Te-121
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
24
52-Te-121

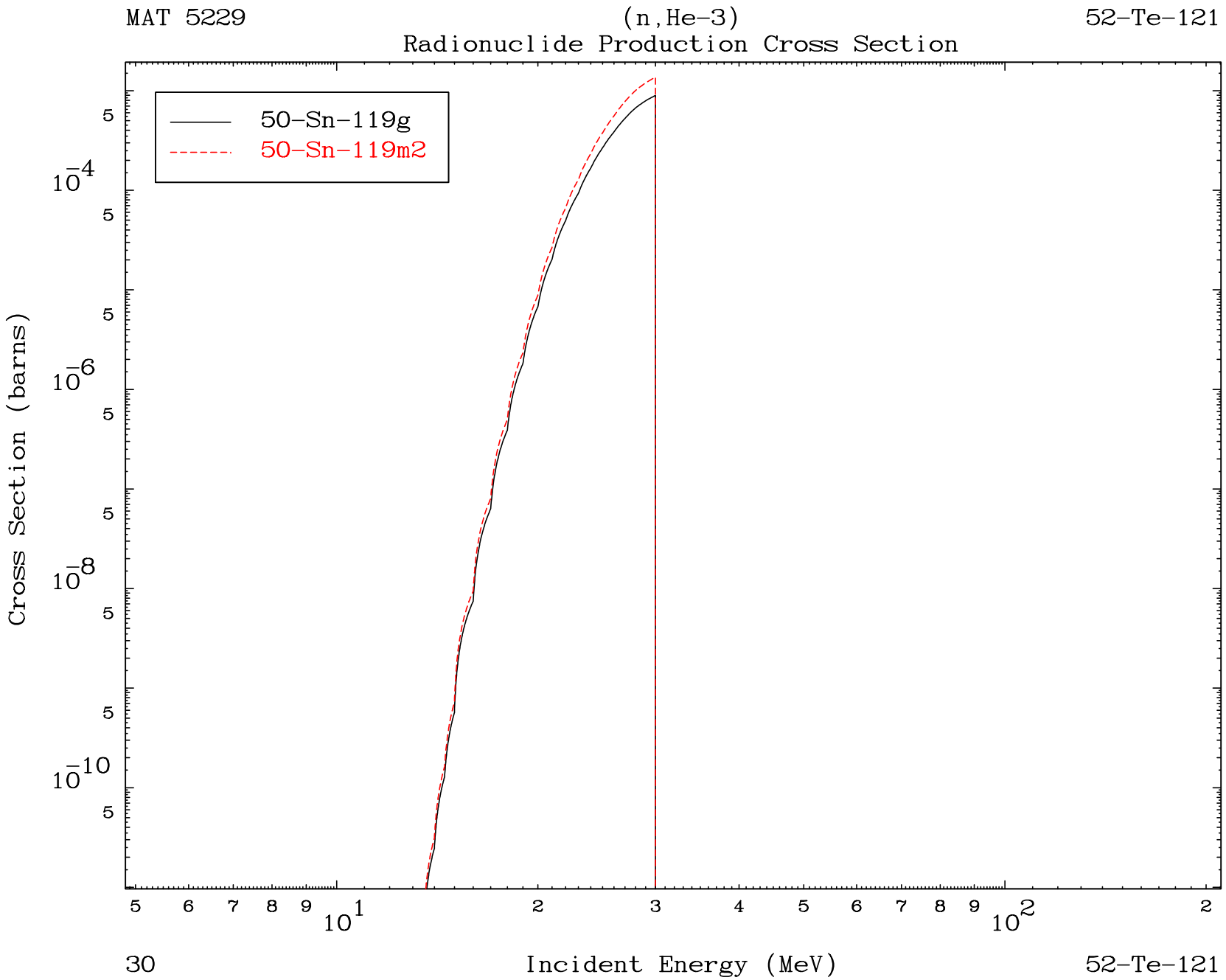

MAT 5229
(n,n') t
52-Te-121
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
25
Incident Energy (MeV)
52-Te-121

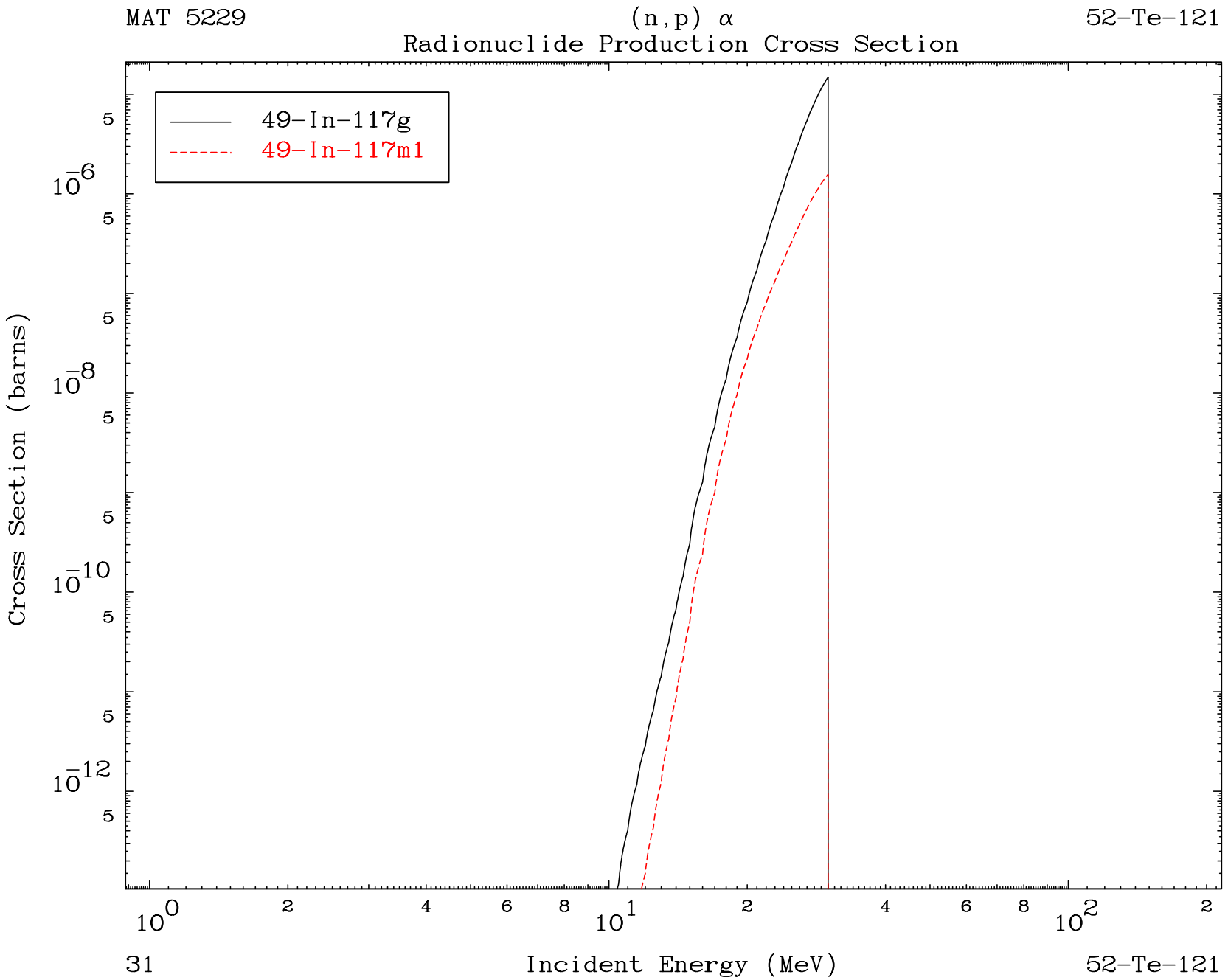

MAT 5229
(n,3n) p
52-Te-121
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
26
Incident Energy (MeV)
52-Te-121

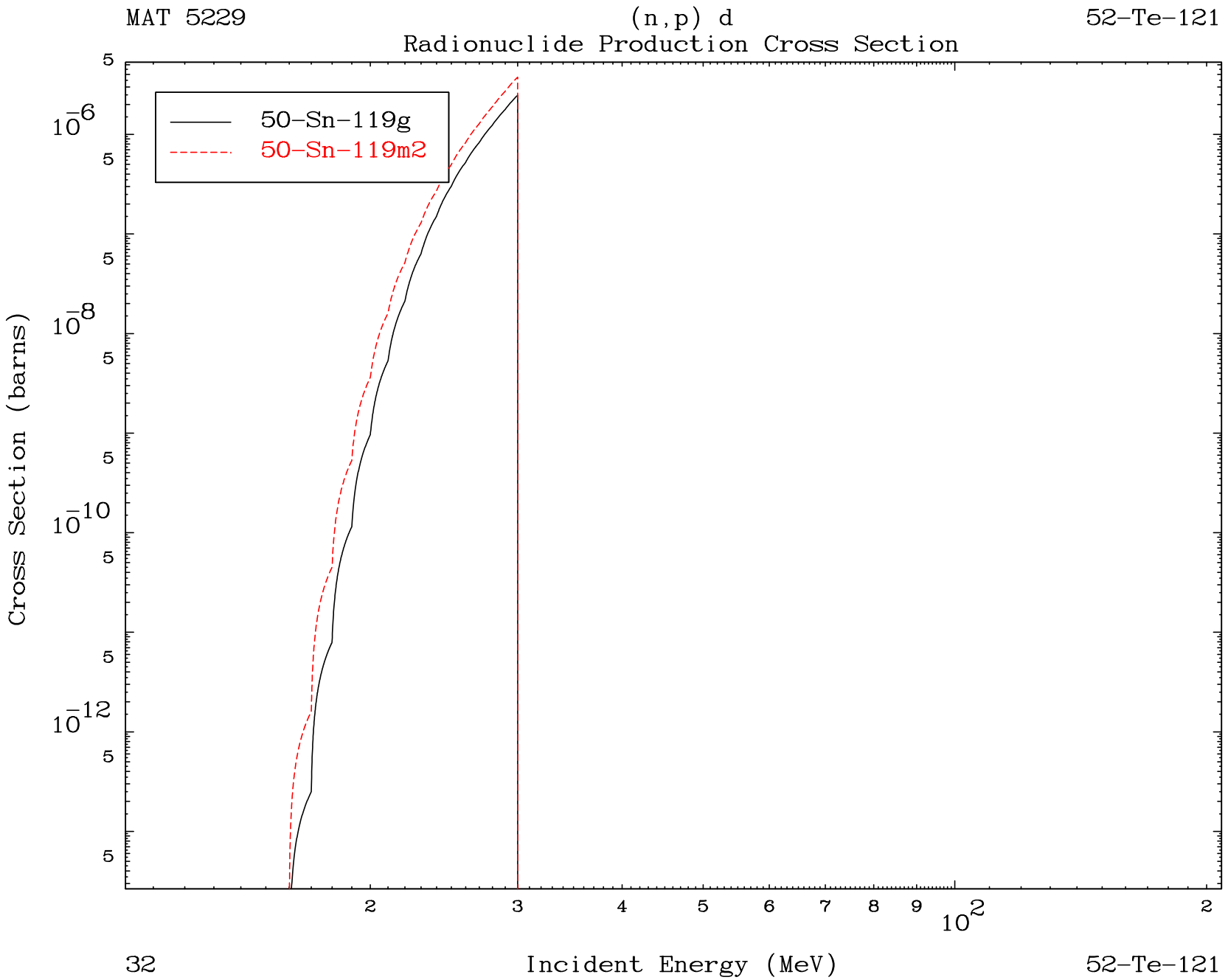

MAT 5229
(n,2n) p
52-Te-121
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
27
Incident Energy (MeV)
52-Te-121

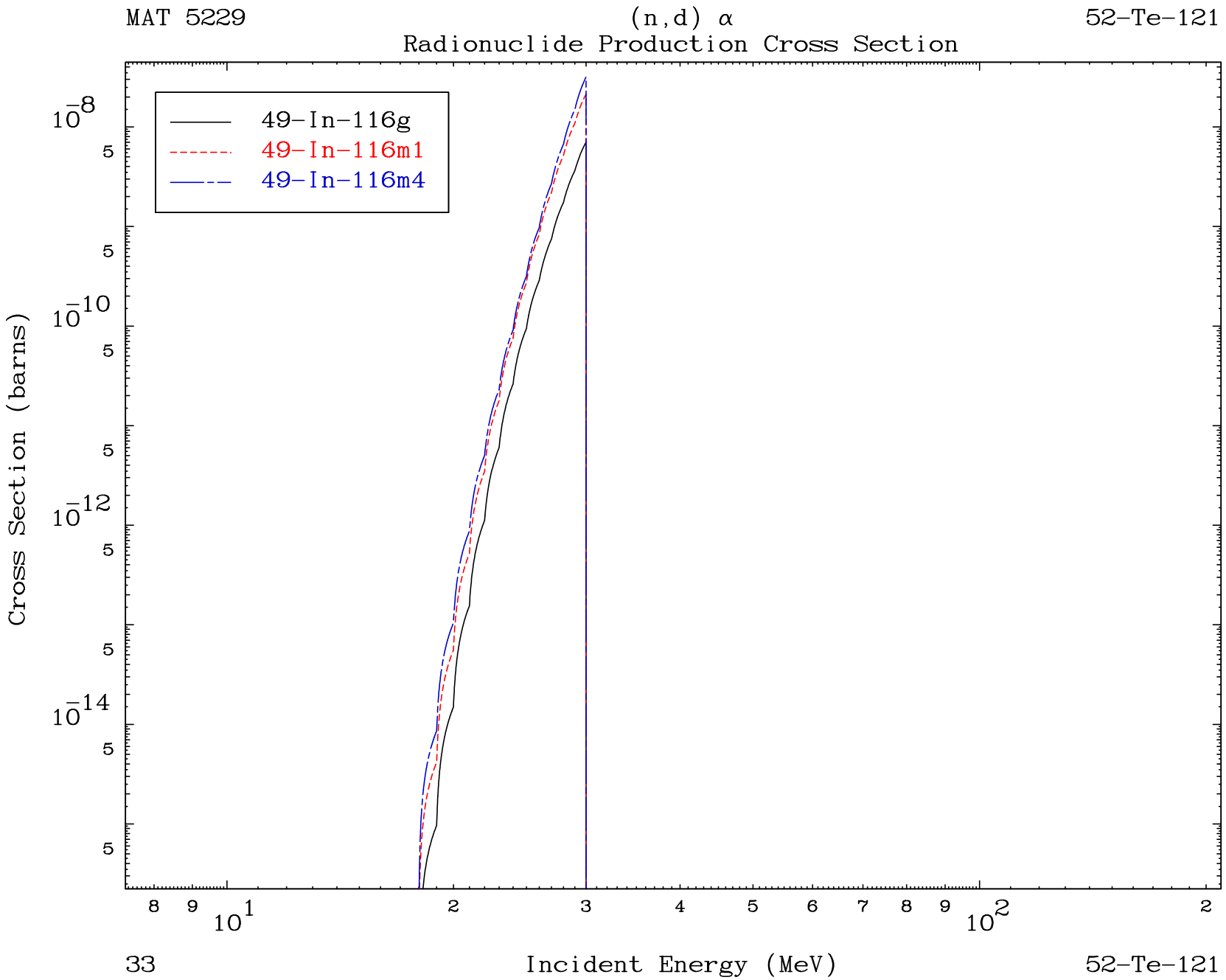

MAT 5229
(n,n') p α
52-Te-121
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^1
2
3
4
5
6
7
8
9
10^2
2
28
Incident Energy (MeV)
52-Te-121


MAT 5229
(n,d)
52-Te-121
Radionuclide Production Cross Section
51-Sb-120g
51-Sb-120m5
Cross Section (barns)
Incident Energy (MeV)
29
52-Te-121


MAT 5229
(n,He-3)
52-Te-121
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
Incident Energy (MeV)
30
52-Te-121


MAT 5229
(n,p) α
52-Te-121
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
Incident Energy (MeV)
31
52-Te-121


MAT 5229
(n,p) d
52-Te-121
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
32
Incident Energy (MeV)
52-Te-121


MAT 5229
(n,d) α
52-Te-121
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
Incident Energy (MeV)
33
52-Te-121