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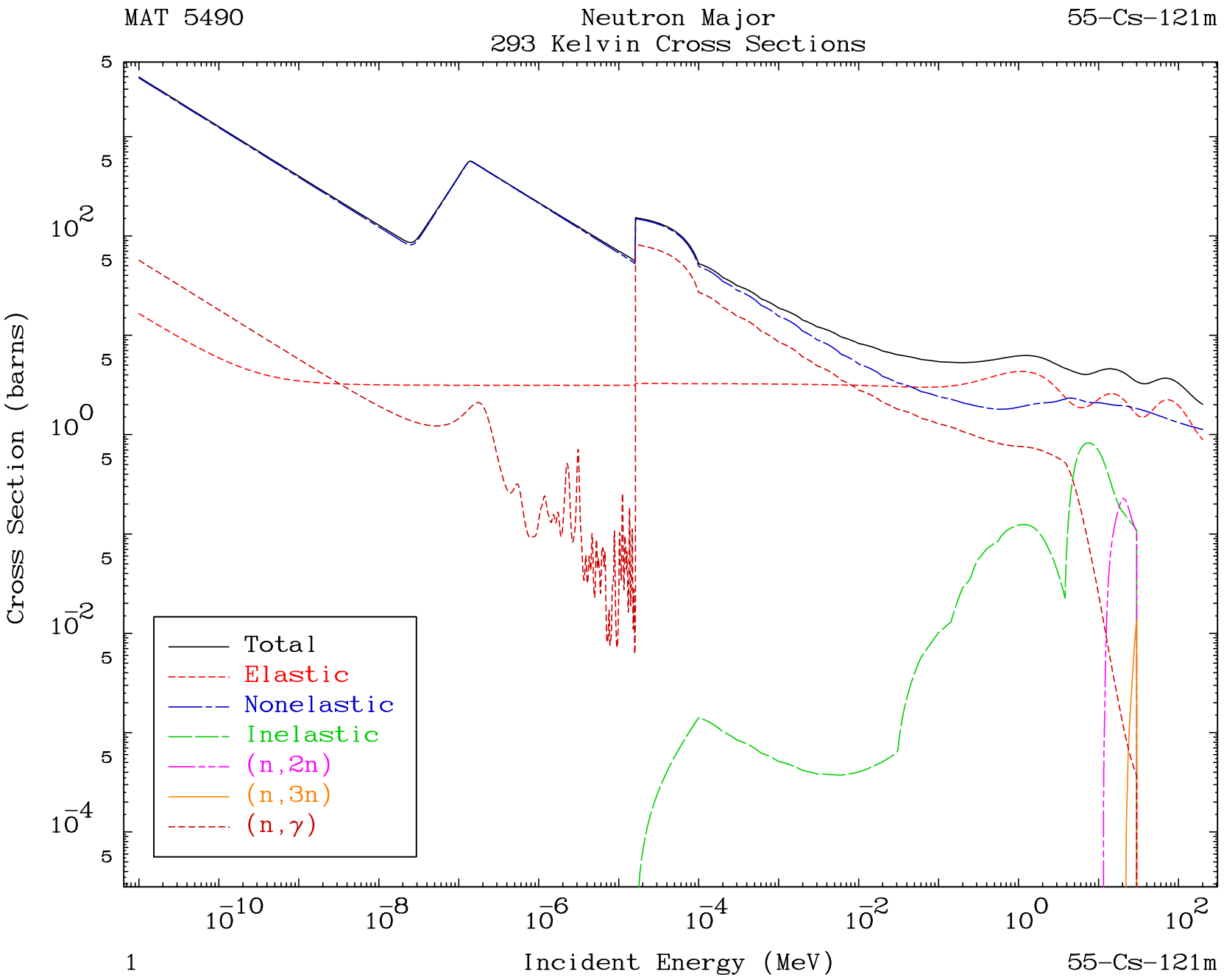
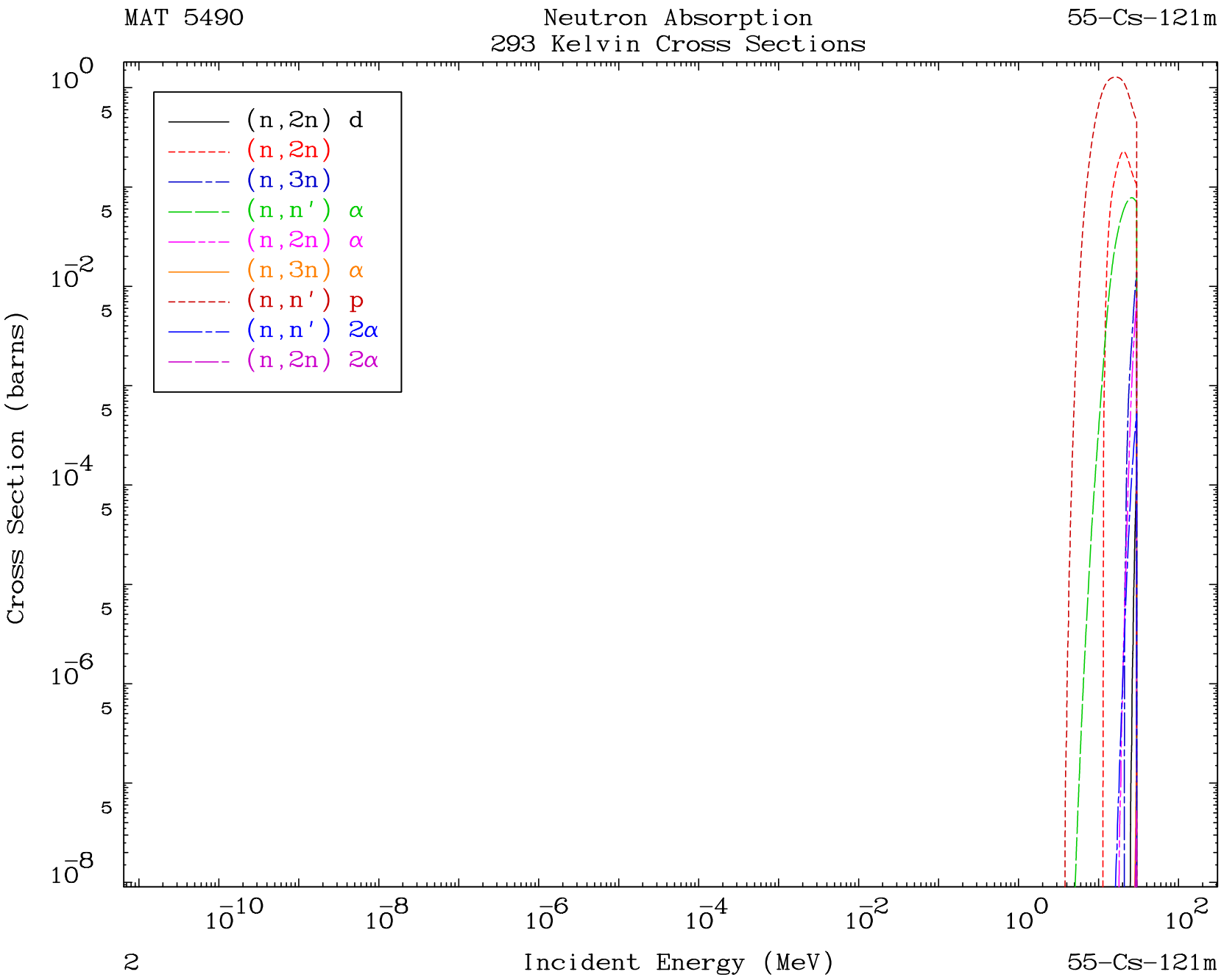
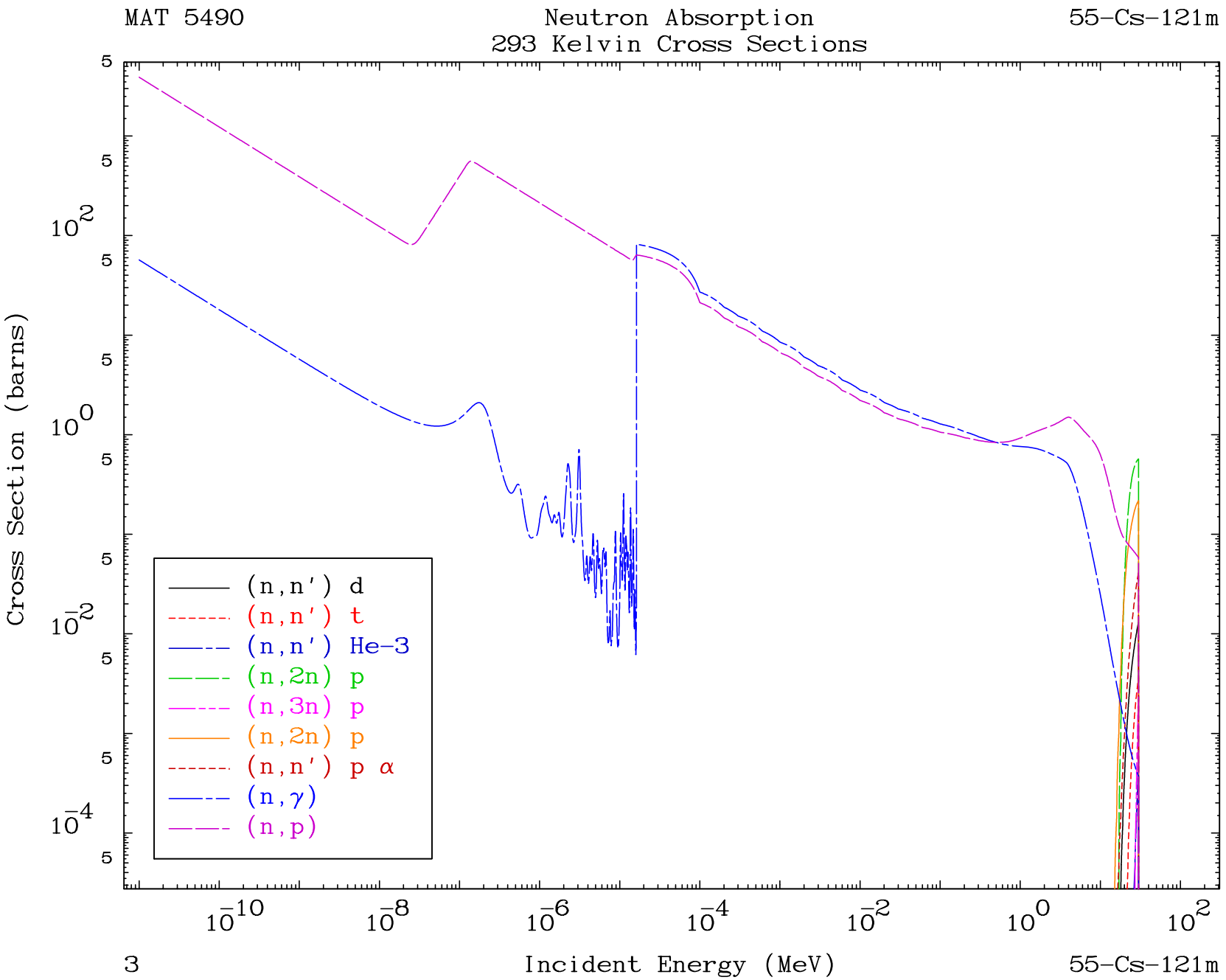
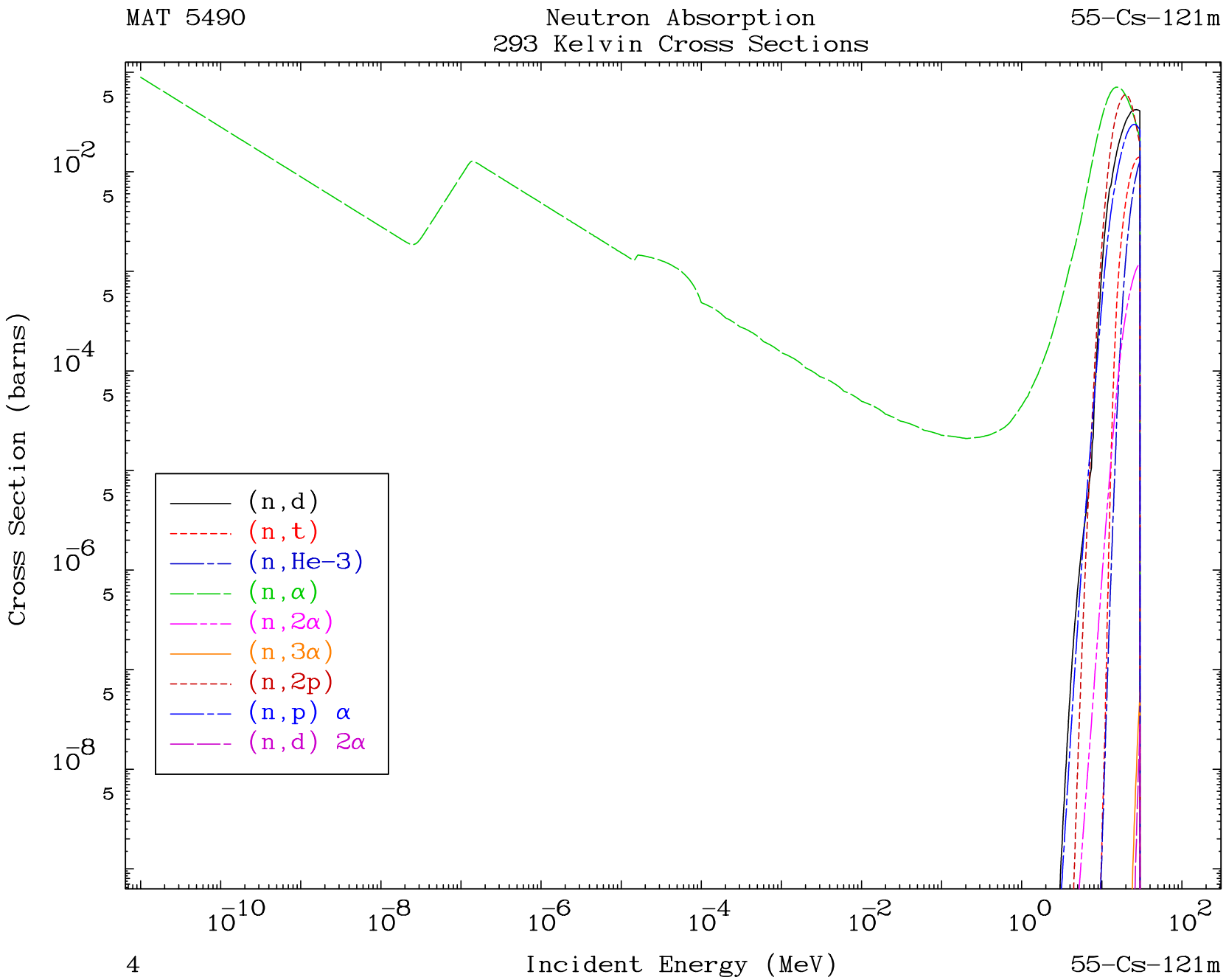
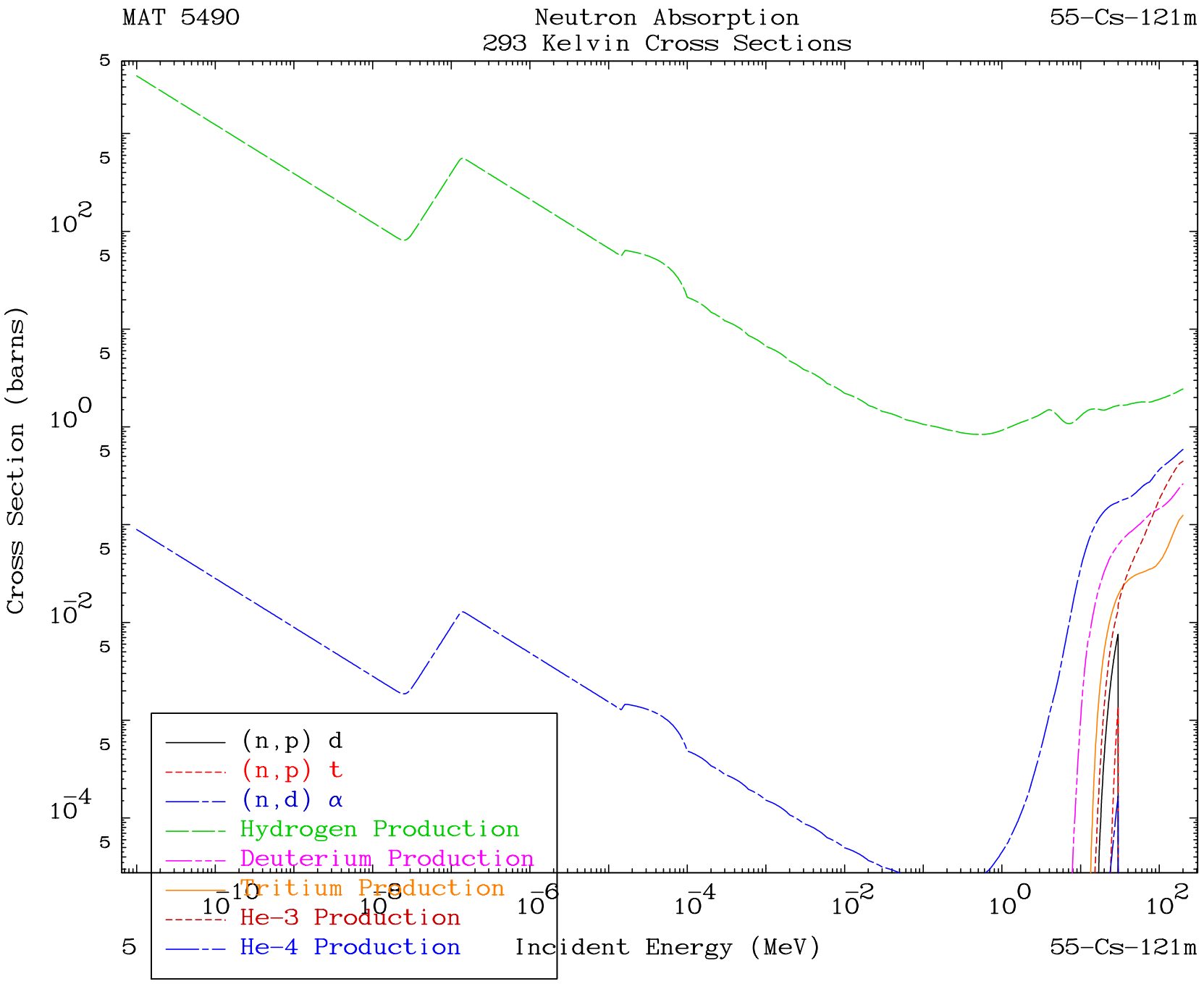
Press Mouse Button to Start

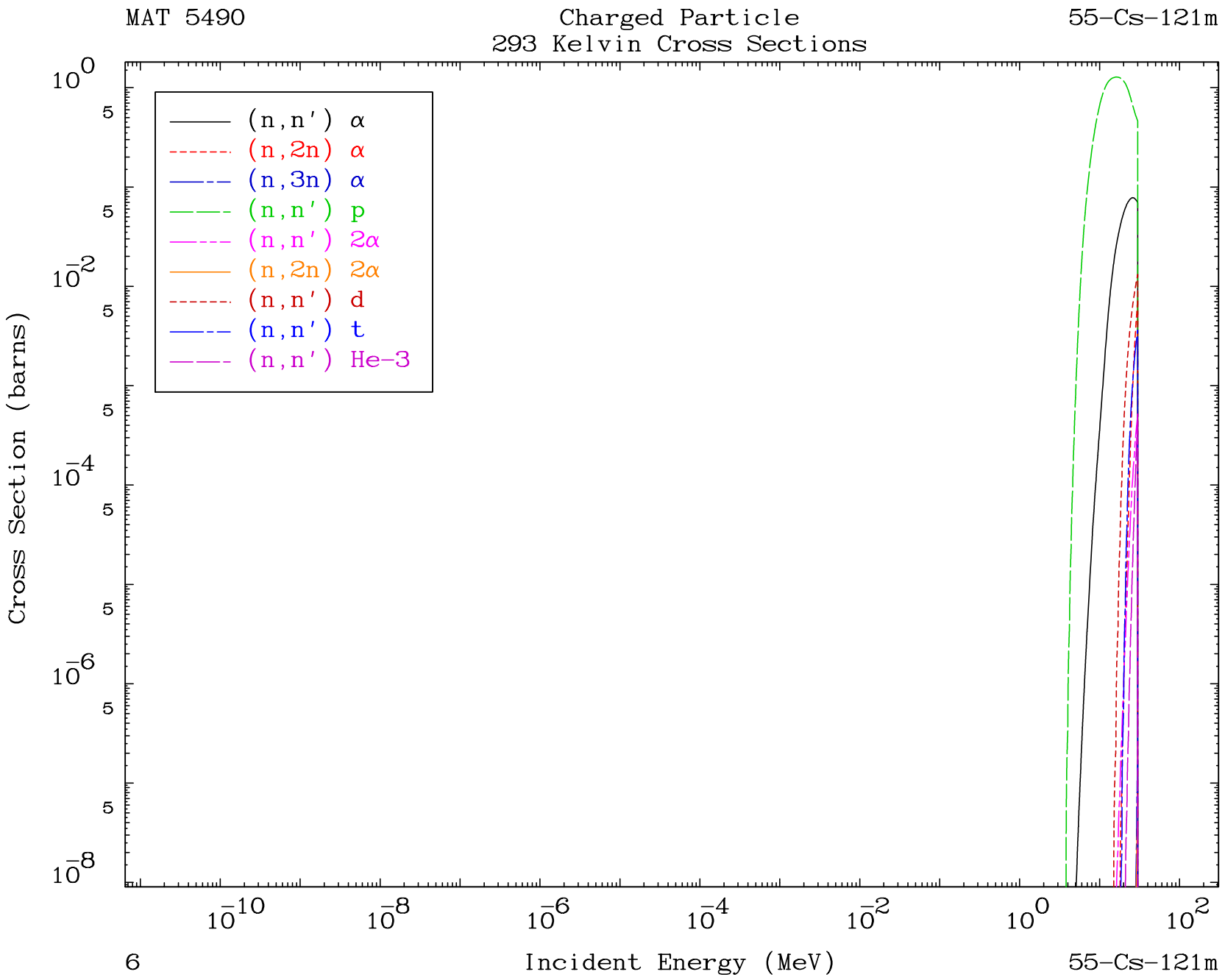

MAT 5490
Neutron Major
293 Kelvin Cross Sections
55-Cs-121m
Cross Section (barns)
Incident Energy (MeV)
55-Cs-121m
1
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)

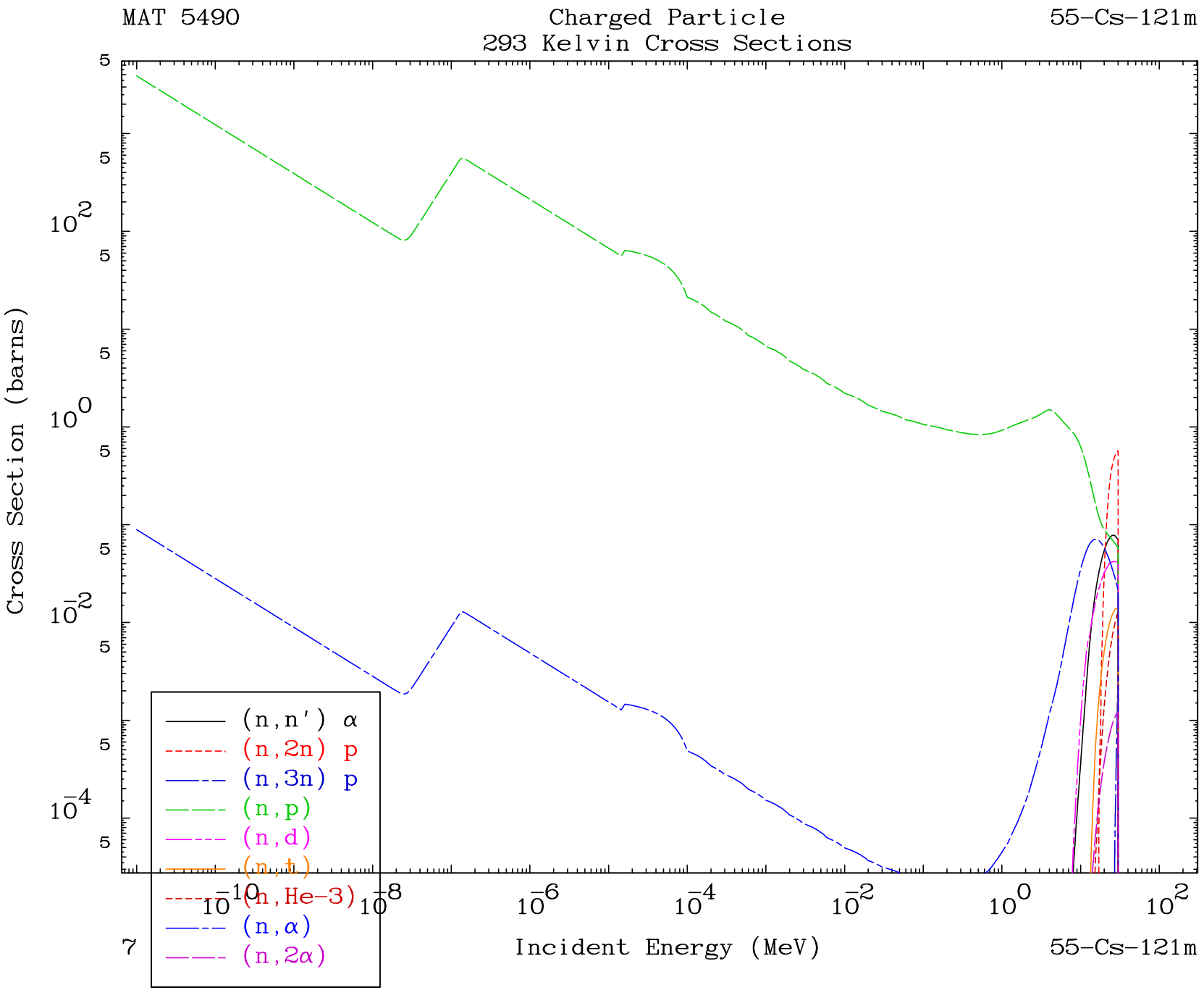

MAT 5490
Neutron Absorption
293 Kelvin Cross Sections
55-Cs-121m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
Cross Section (barns)
Incident Energy (MeV)
55-Cs-121m
2

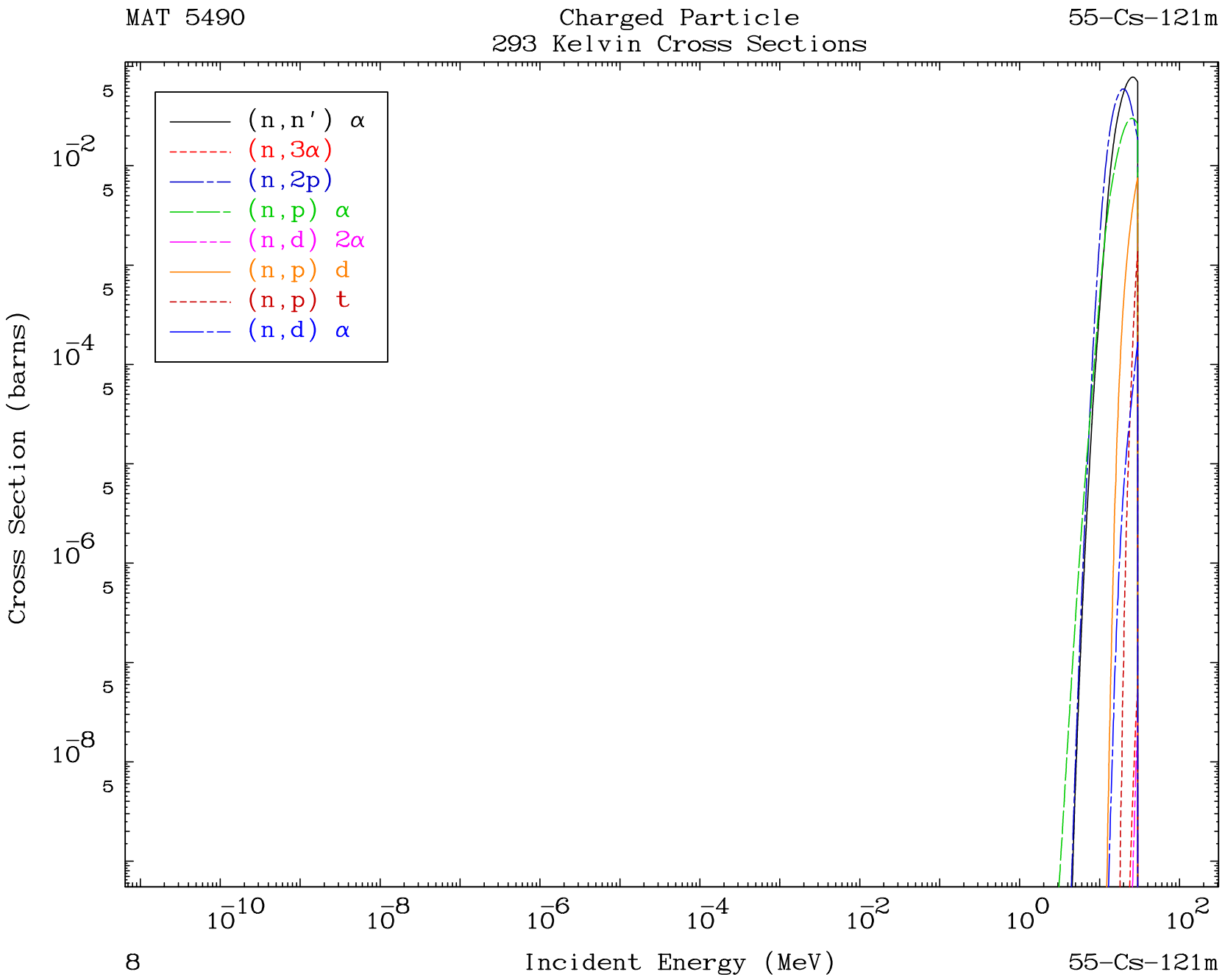

MAT 5490
Neutron Absorption
293 Kelvin Cross Sections
55-Cs-121m
Cross Section (barns)
Incident Energy (MeV)
55-Cs-121m
3
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)

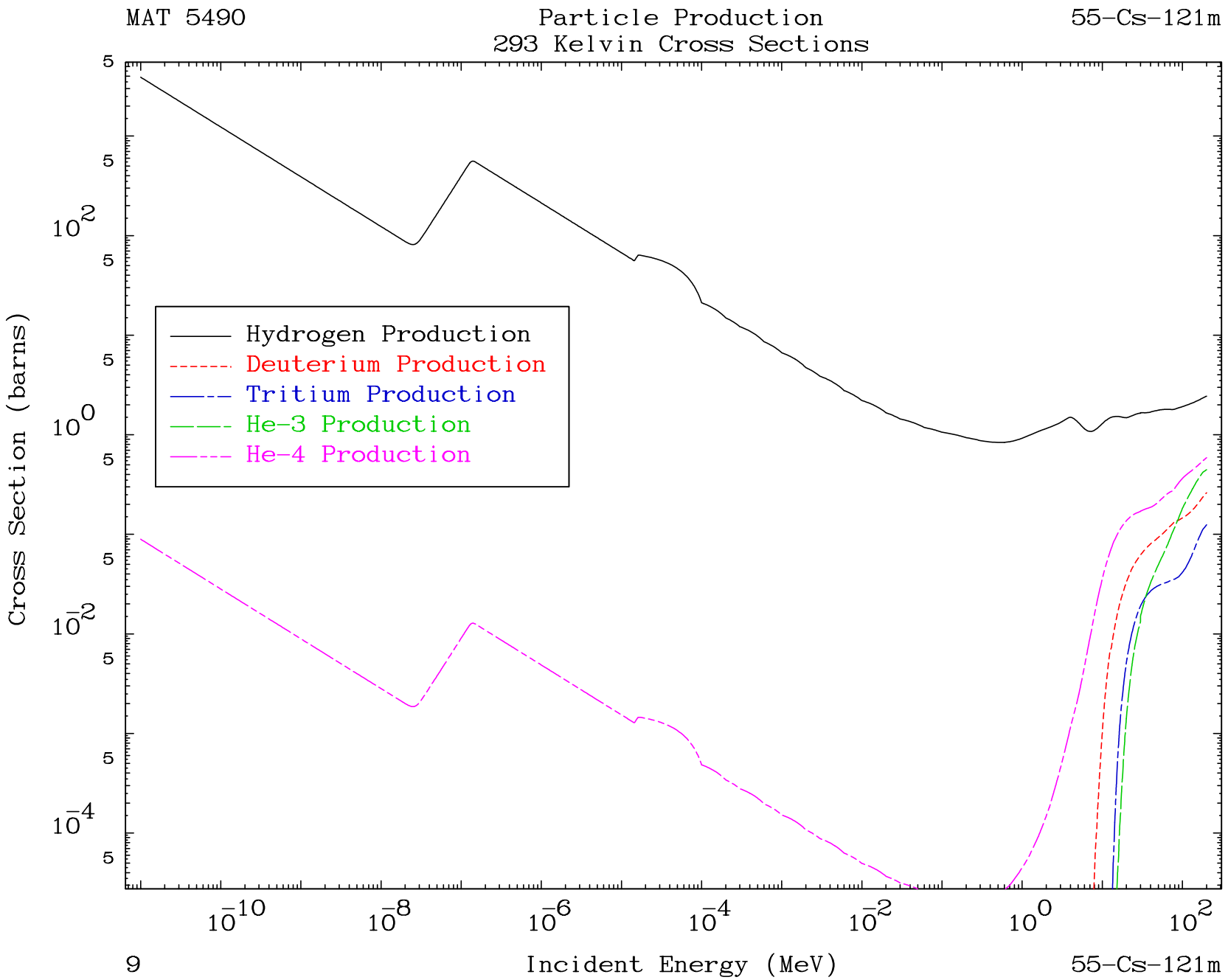

MAT 5490
Neutron Absorption
293 Kelvin Cross Sections
55-Cs-121m
Cross Section (barns)
Incident Energy (MeV)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,d) 2α
4
55-Cs-121m

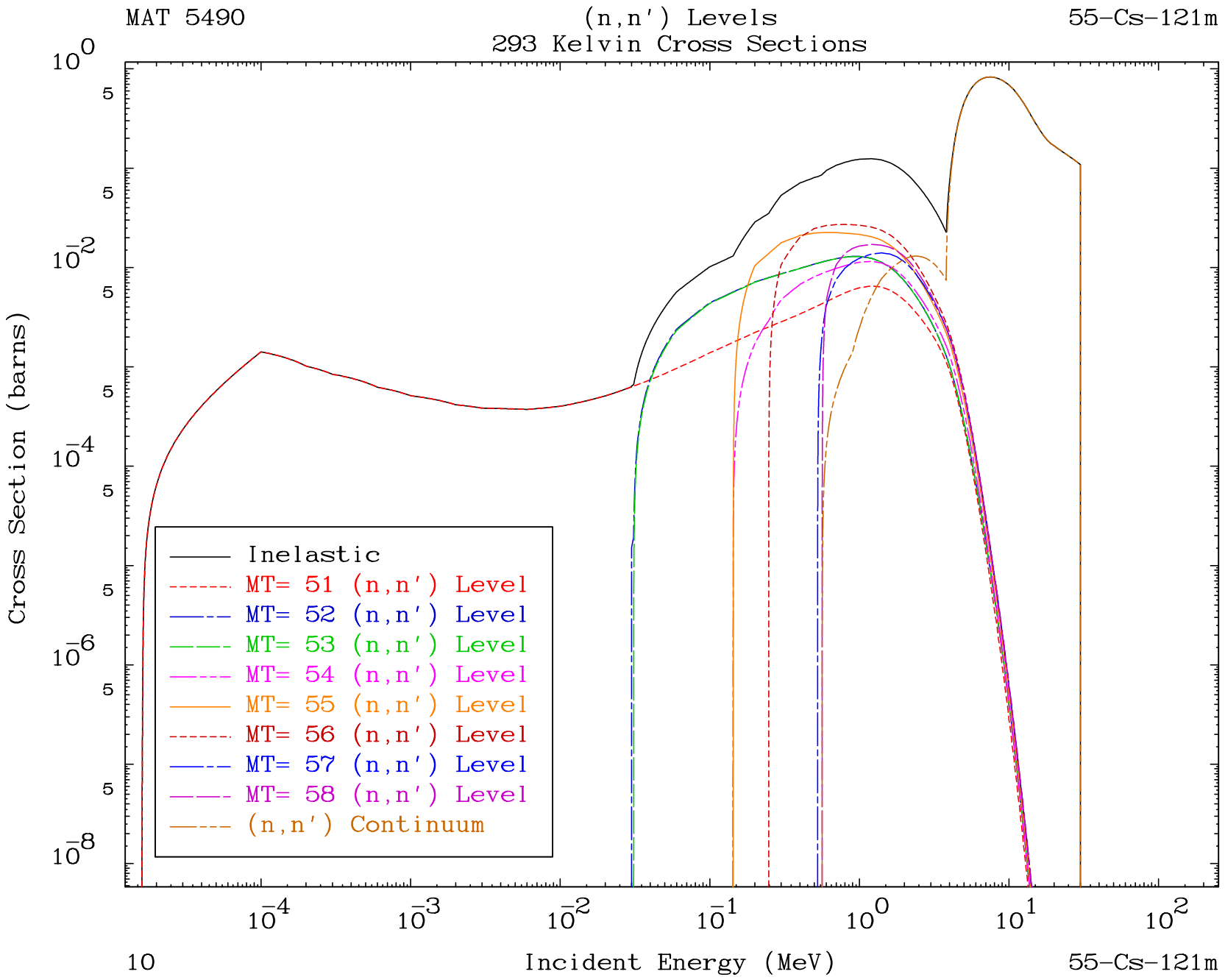

MAT 5490
Neutron Absorption
293 Kelvin Cross Sections
55-Cs-121m
Cross Section (barns)
Incident Energy (MeV)
55-Cs-121m
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

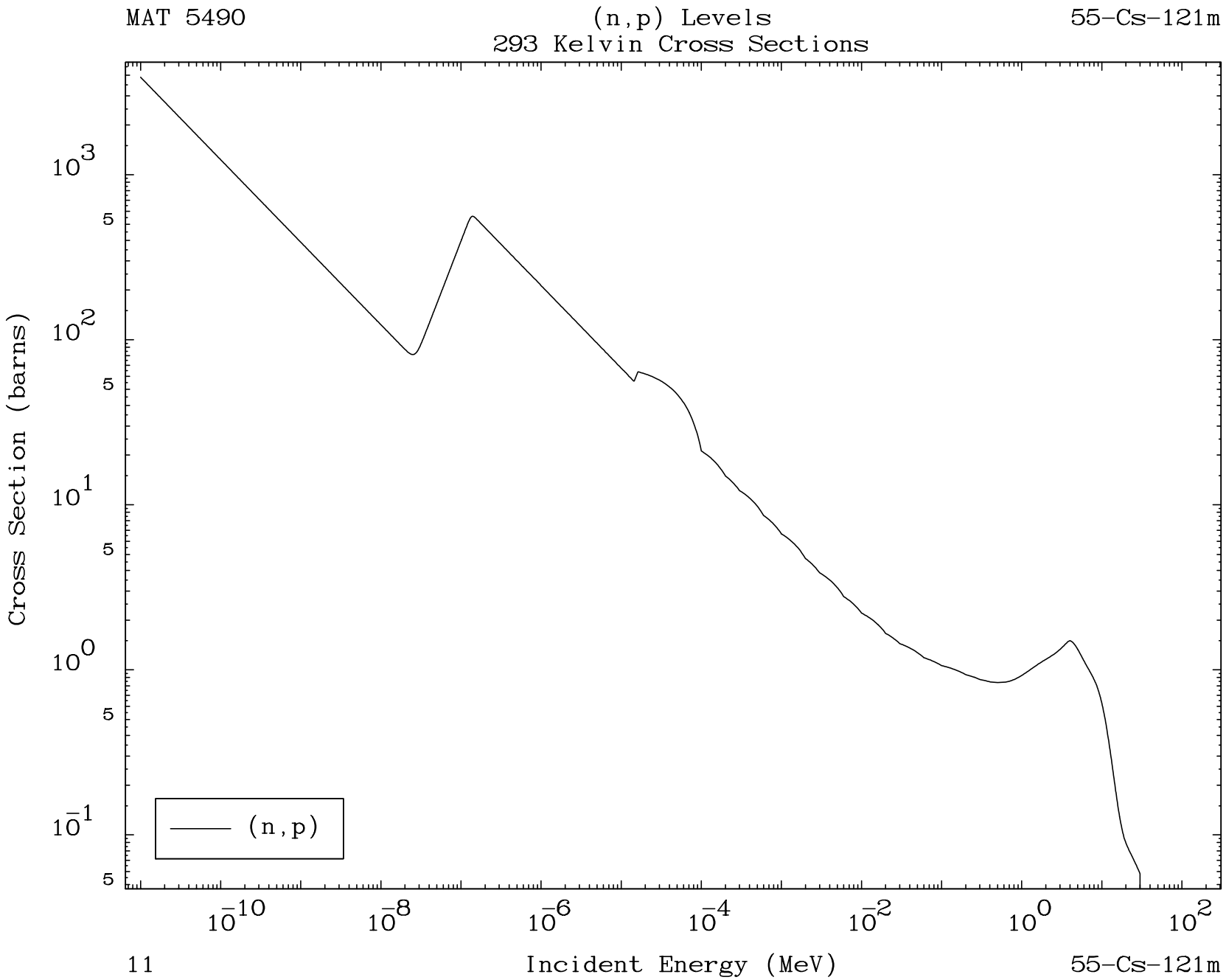

MAT 5490
Charged Particle
293 Kelvin Cross Sections
55-Cs-121m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
55-Cs-121m
6

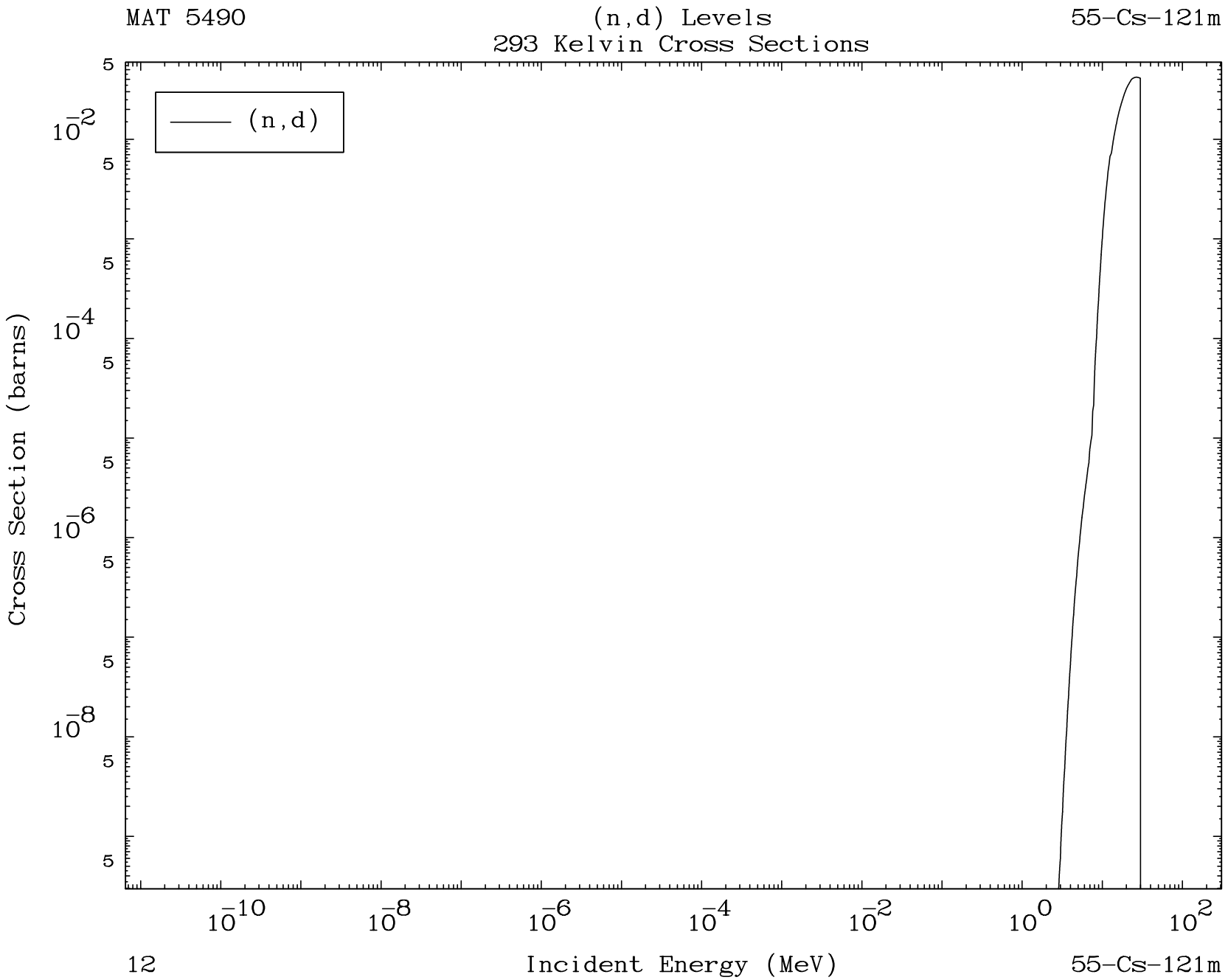

MAT 5490
Charged Particle
293 Kelvin Cross Sections
55-Cs-121m
Cross Section (barns)
Incident Energy (MeV)
55-Cs-121m
(n,n') α
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)

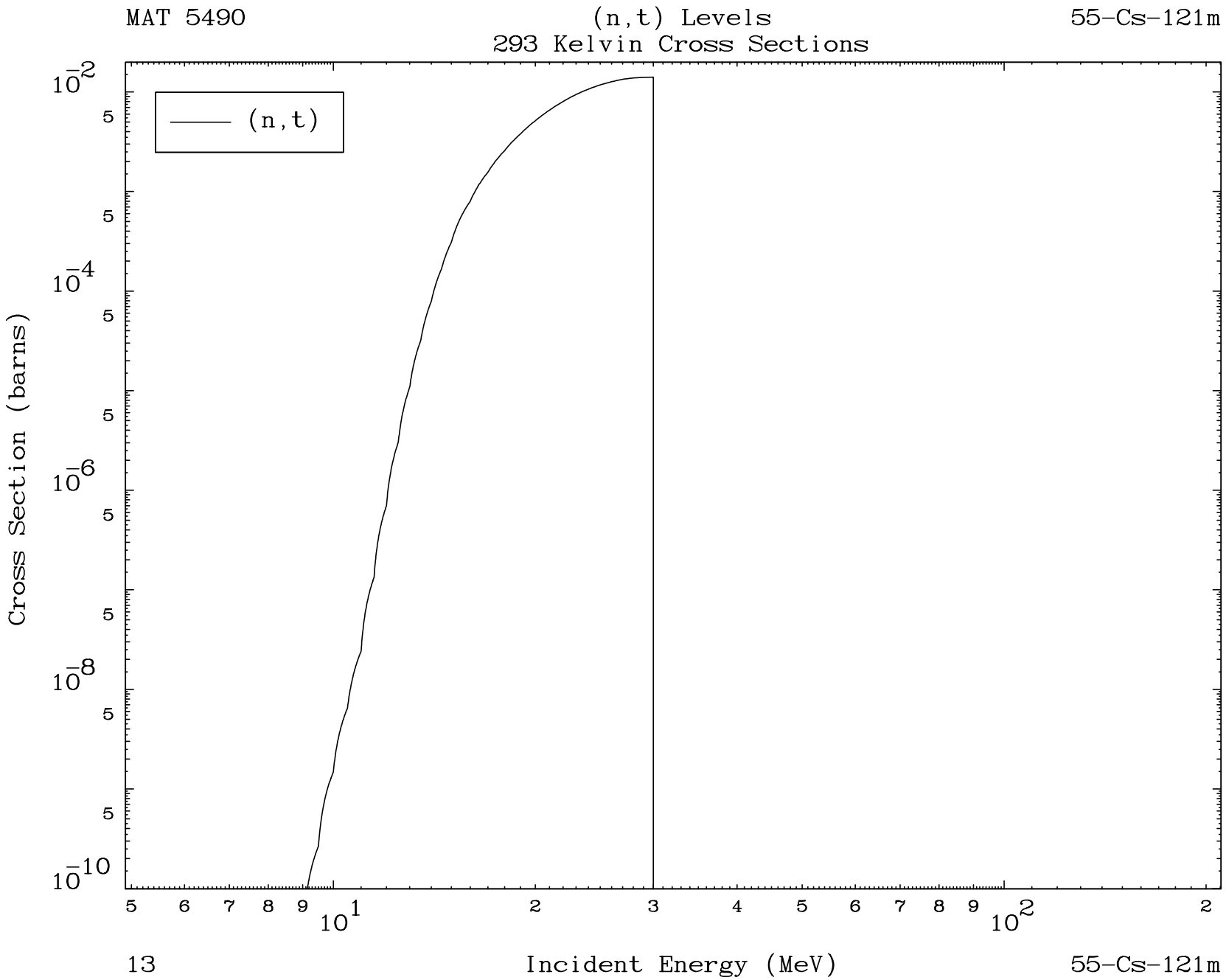

MAT 5490
Charged Particle
293 Kelvin Cross Sections
55-Cs-121m
(n,n') α
(n,3α)
(n,2p)
(n,p) α
(n,d) 2α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
8
55-Cs-121m

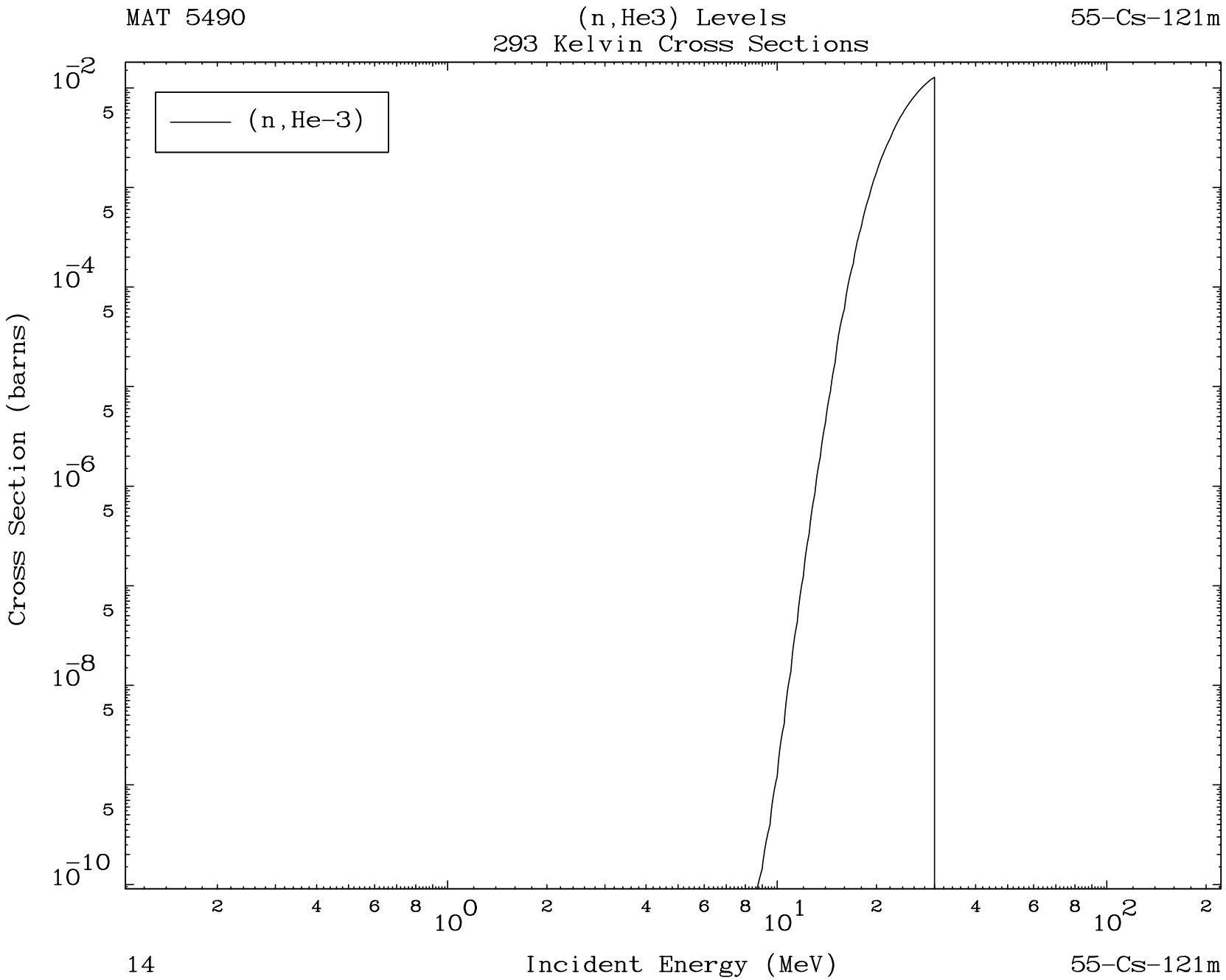

MAT 5490
Particle Production
293 Kelvin Cross Sections
55-Cs-121m
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
9
55-Cs-121m

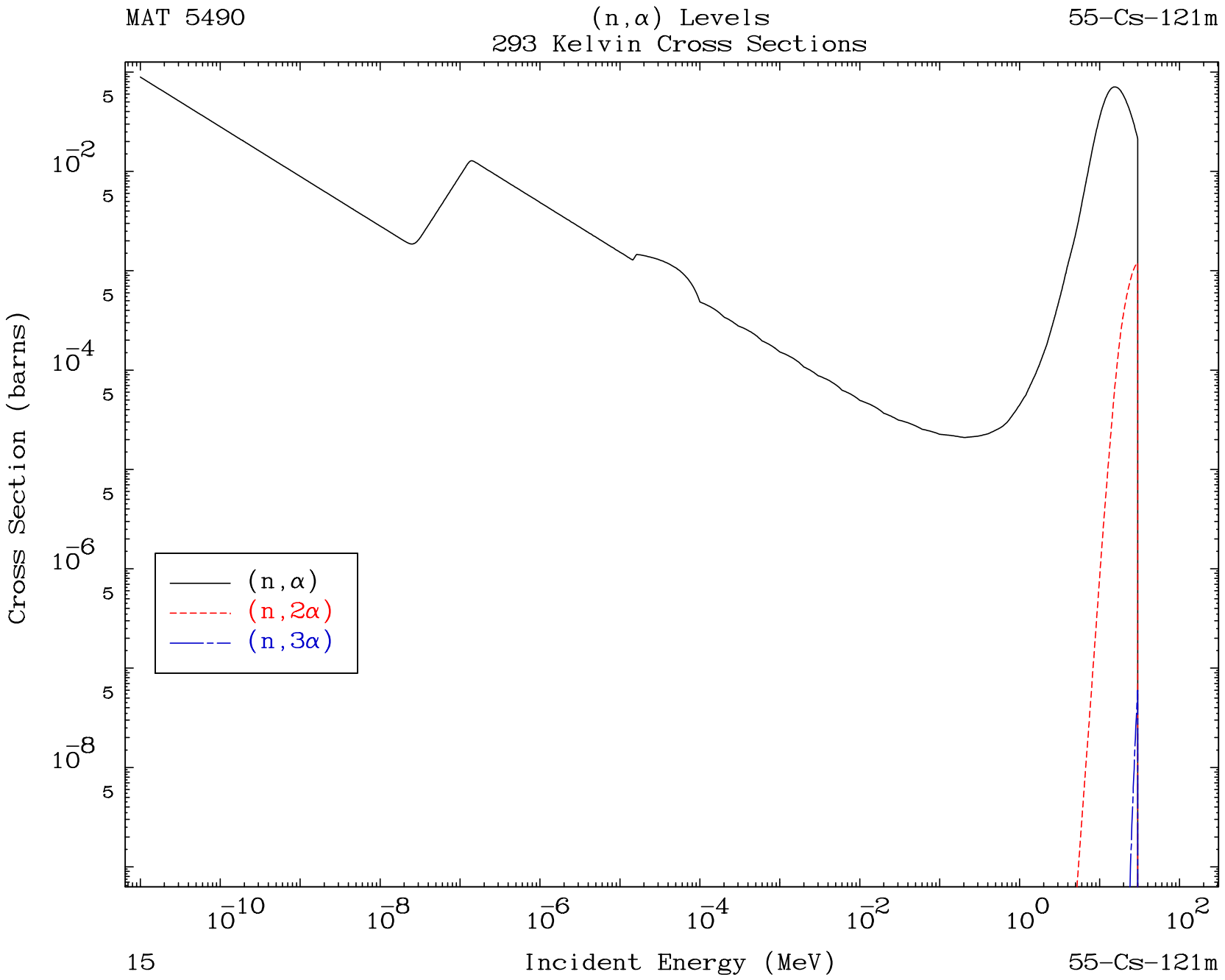

MAT 5490
(n,n') Levels
293 Kelvin Cross Sections
55-Cs-121m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
(n,n') Continuum
10
55-Cs-121m

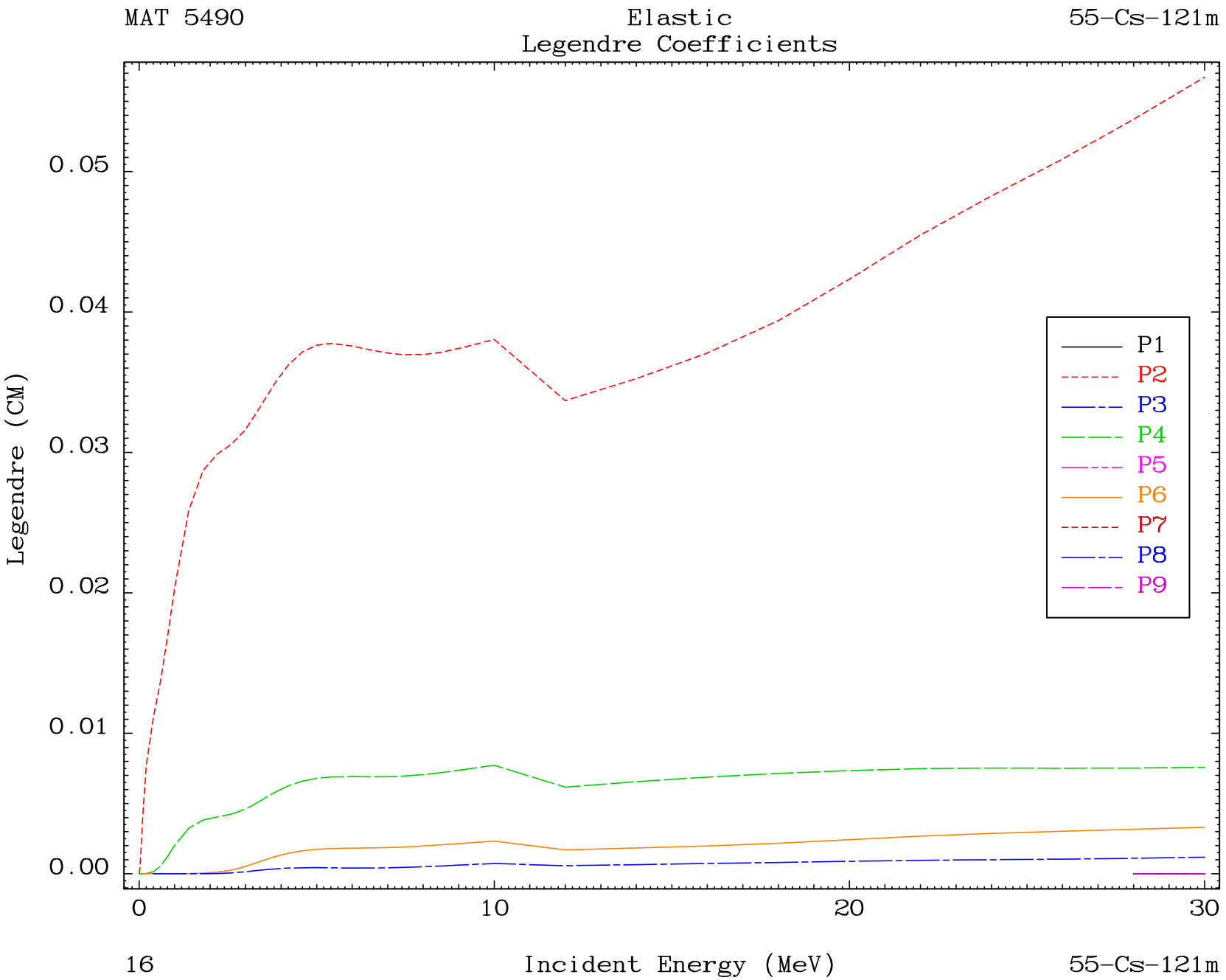

MAT 5490
(n,p) Levels
55-Cs-121m
293 Kelvin Cross Sections
Cross Section (barns)
10^3
10^2
10^1
10^0
10^-1
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
(n,p)
11
Incident Energy (MeV)
55-Cs-121m

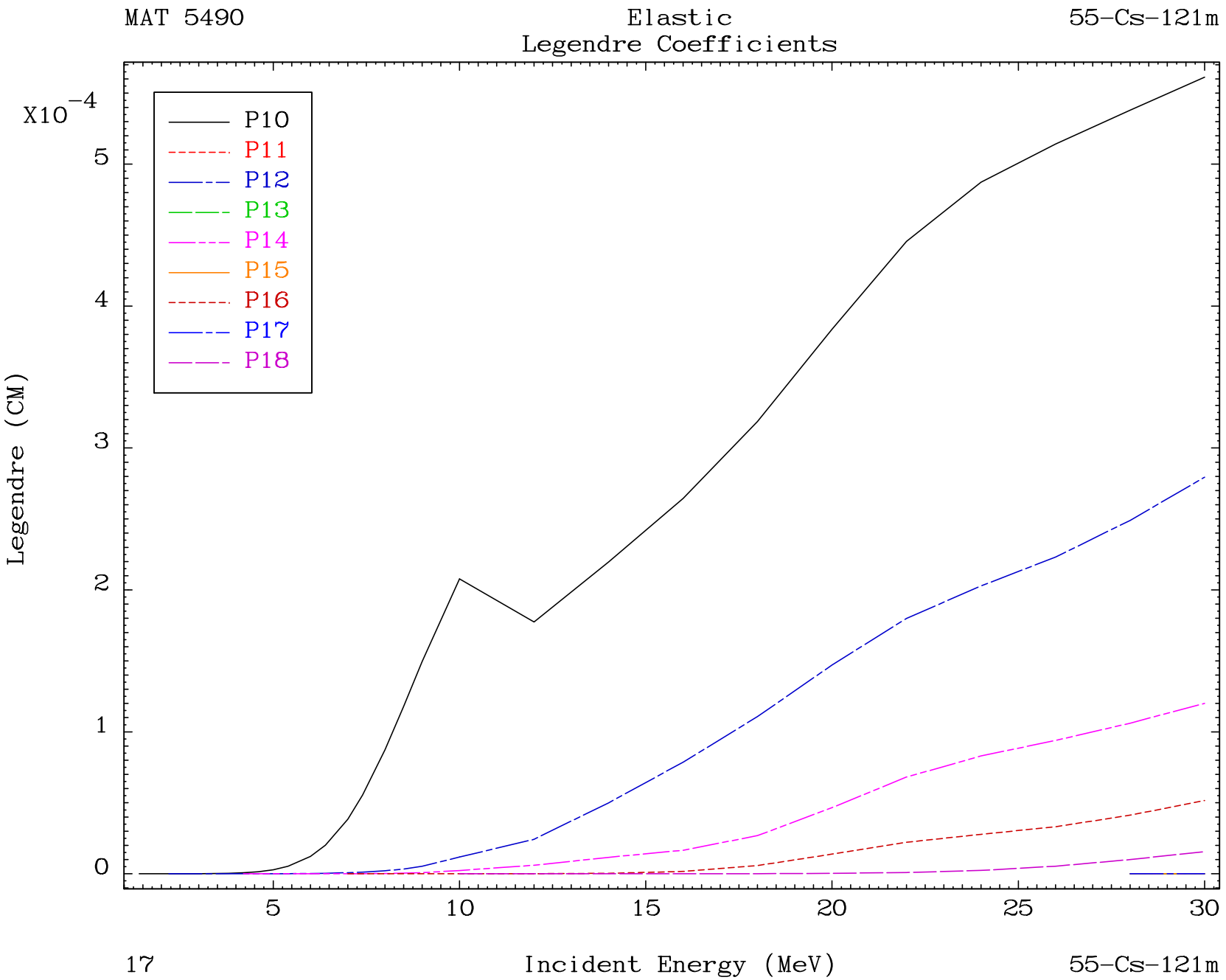

MAT 5490
(n,d) Levels
55-Cs-121m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
55-Cs-121m

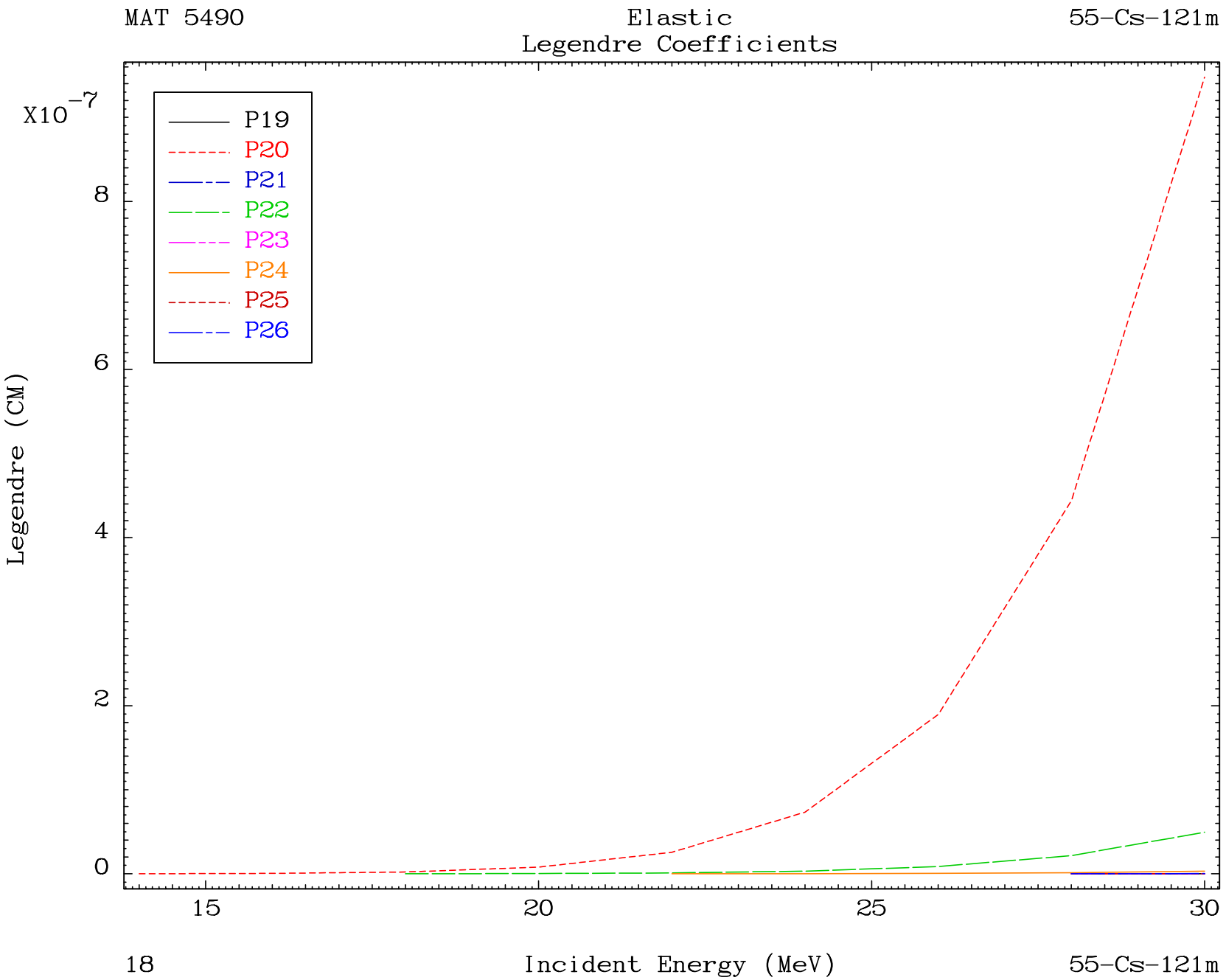

MAT 5490
(n,t) Levels
55-Cs-121m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
55-Cs-121m

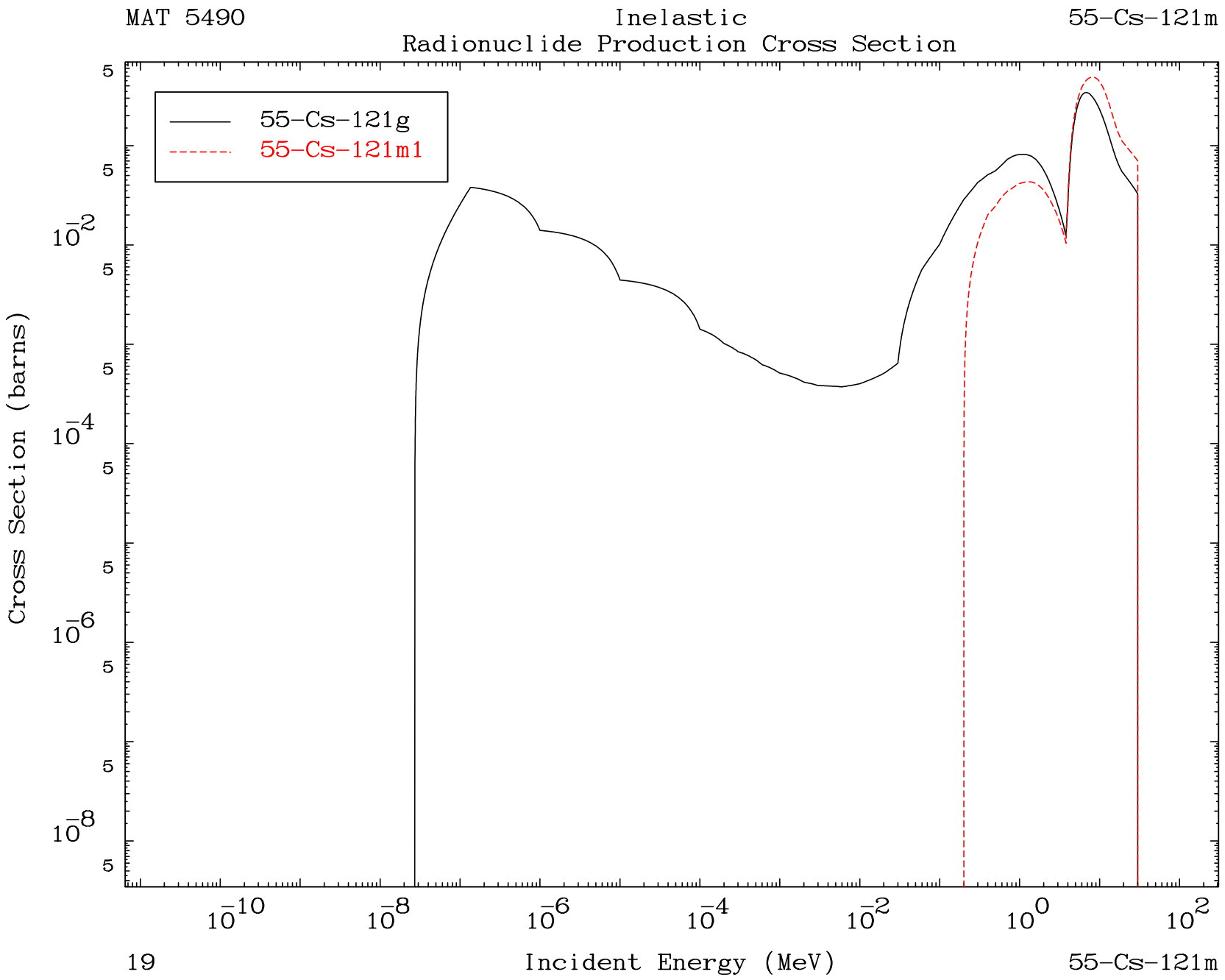

MAT 5490
(n,He3) Levels
55-Cs-121m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
14
55-Cs-121m

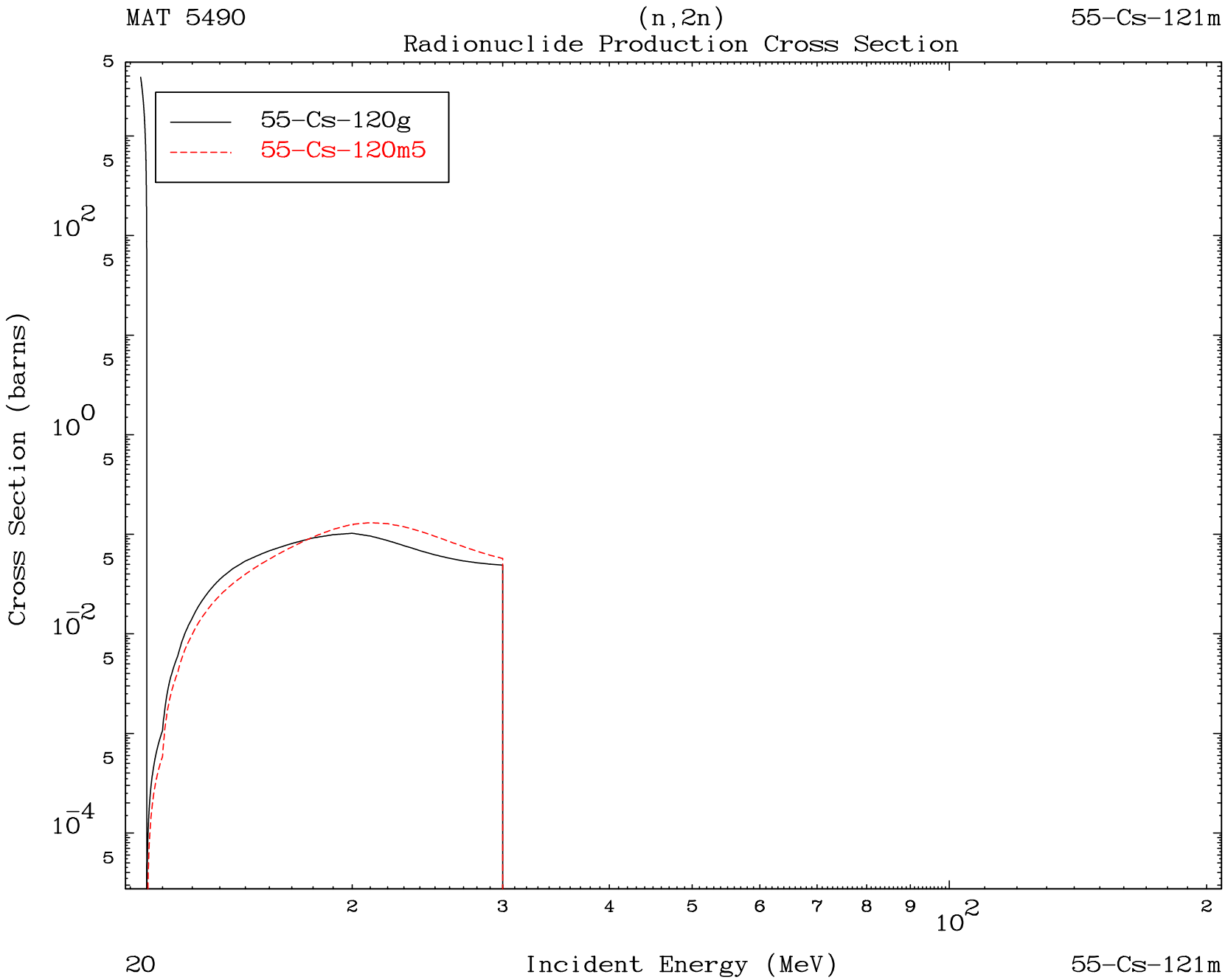

MAT 5490
(n,α) Levels
55-Cs-121m
293 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
(n,α)
(n,2α)
(n,3α)
10-10
10-8
10-6
10-4
10-2
100
102
Incident Energy (MeV)
15
55-Cs-121m

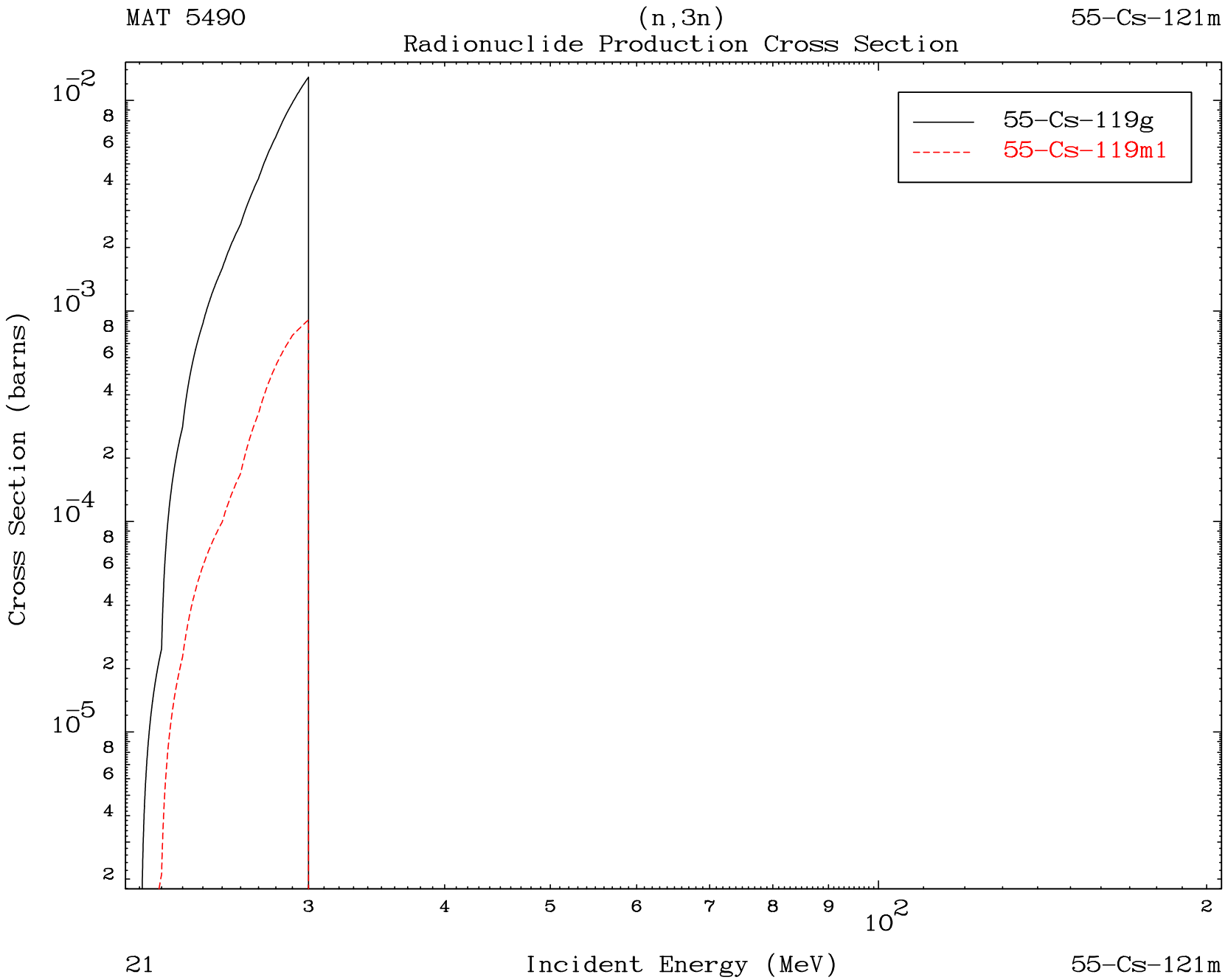

MAT 5490
Elastic
Legendre Coefficients
55-Cs-121m
0.05
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
16
Incident Energy (MeV)
55-Cs-121m

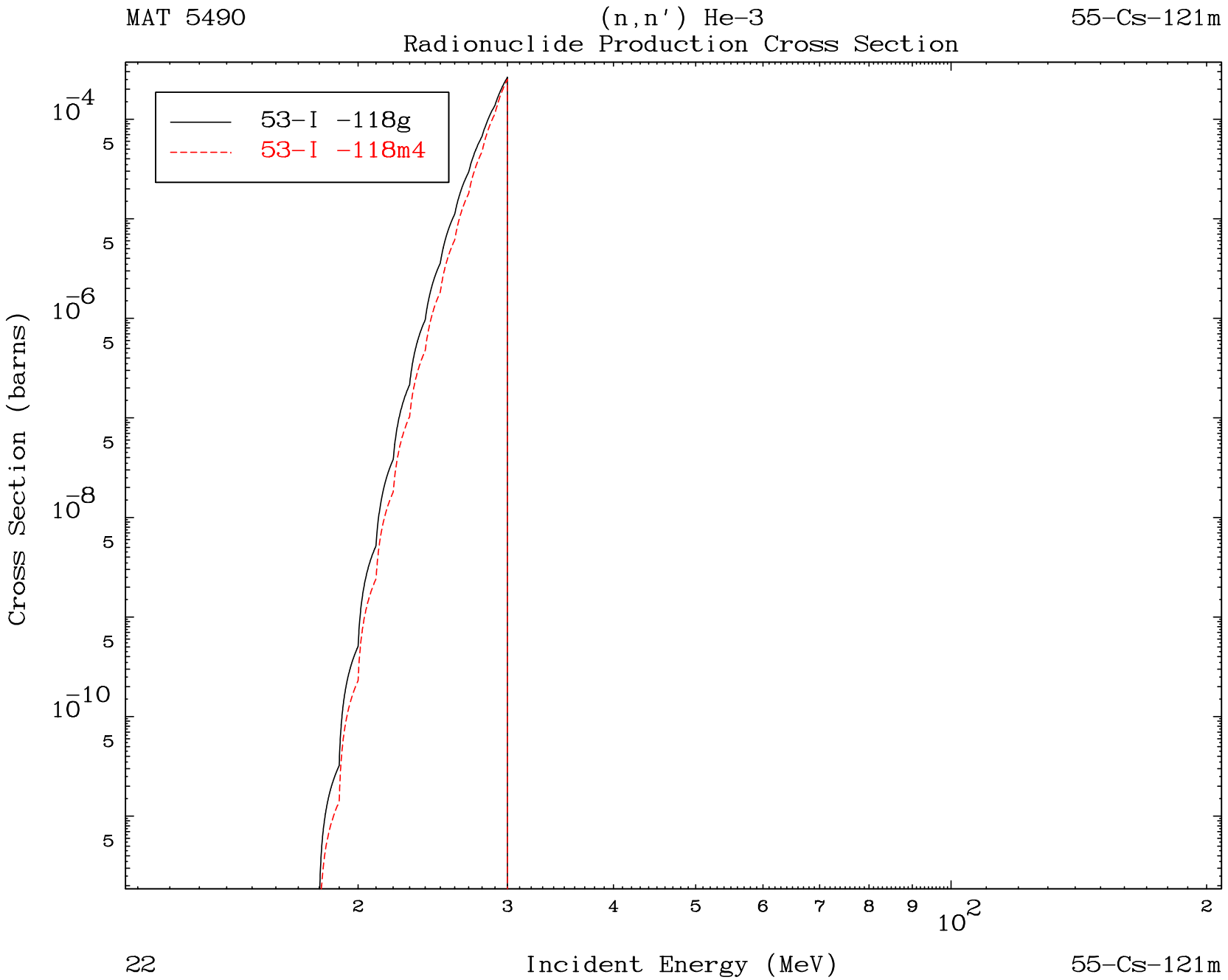

MAT 5490
Elastic
Legendre Coefficients
55-Cs-121m
X10^{-4}
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0
1
2
3
4
5
5
10
15
20
25
30
17
Incident Energy (MeV)
55-Cs-121m

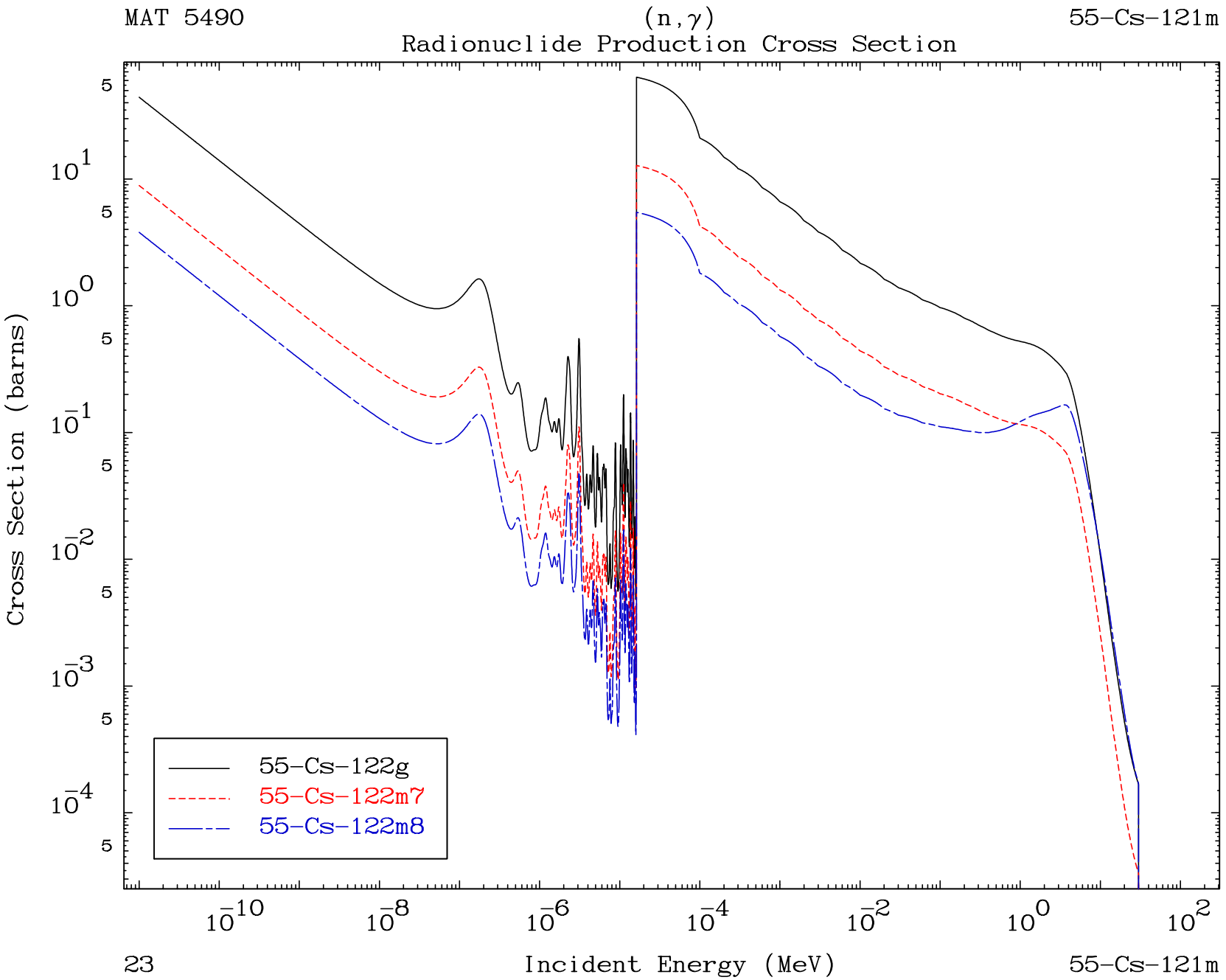

MAT 5490
Elastic
Legendre Coefficients
55-Cs-121m
X10-7
P19
P20
P21
P22
P23
P24
P25
P26
Legendre (CM)
0
2
4
6
8
15
20
25
30
18
Incident Energy (MeV)
55-Cs-121m

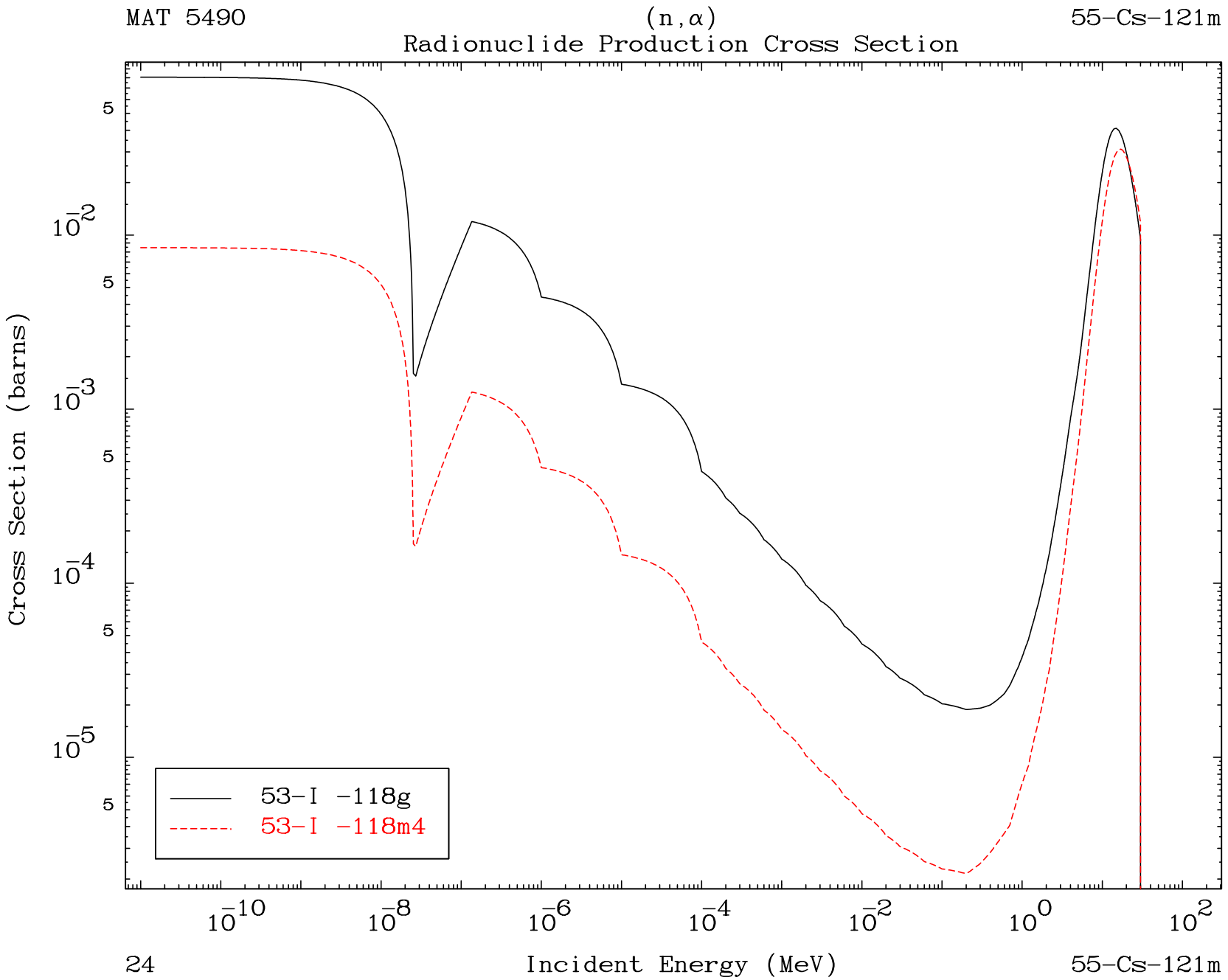

MAT 5490
Inelastic
55-Cs-121m
Radionuclide Production Cross Section
55-Cs-121g
55-Cs-121m1
Cross Section (barns)
Incident Energy (MeV)
19
55-Cs-121m

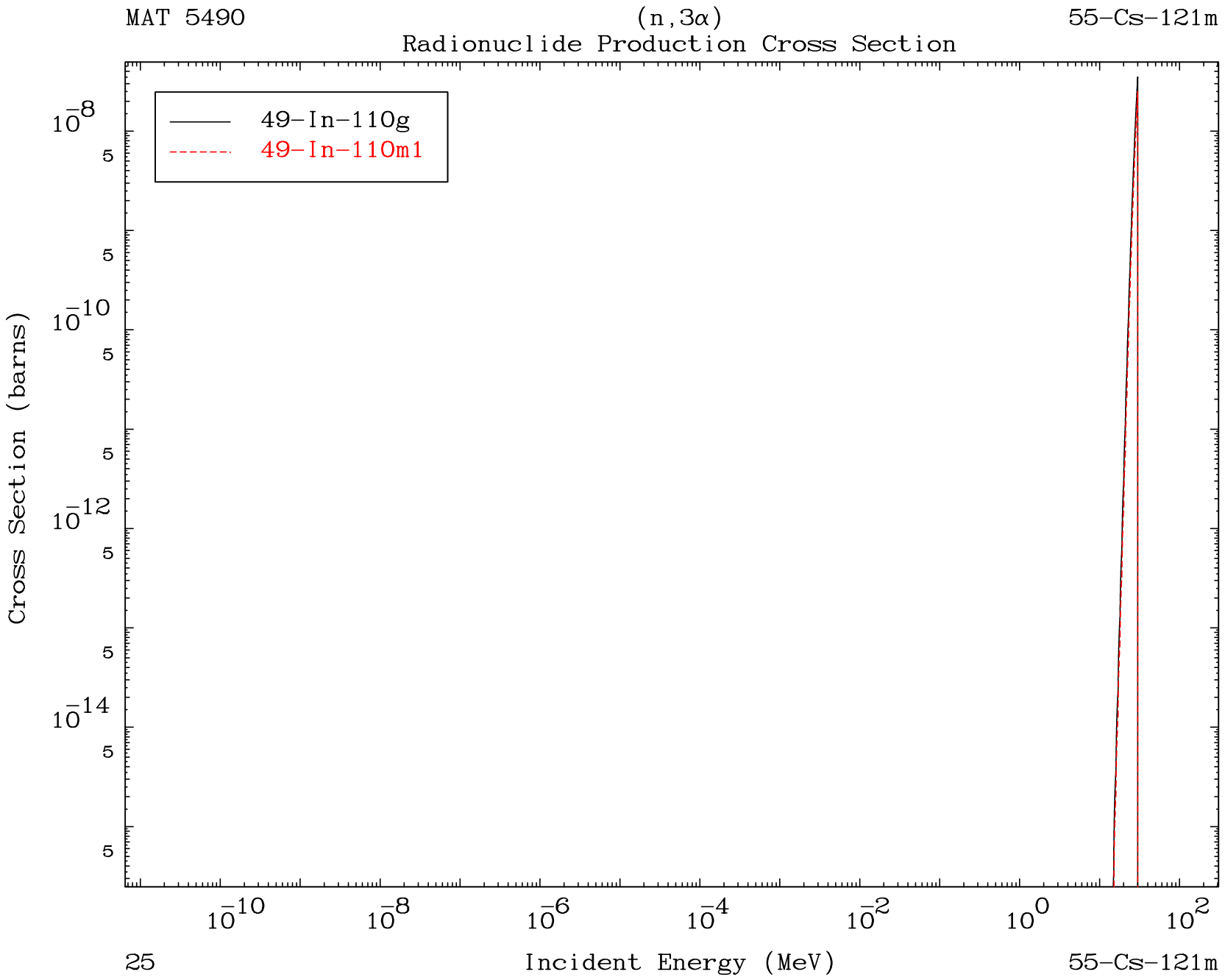

MAT 5490
(n,2n)
55-Cs-121m
Radionuclide Production Cross Section
55-Cs-120g
55-Cs-120m5
Cross Section (barns)
Incident Energy (MeV)
20
55-Cs-121m

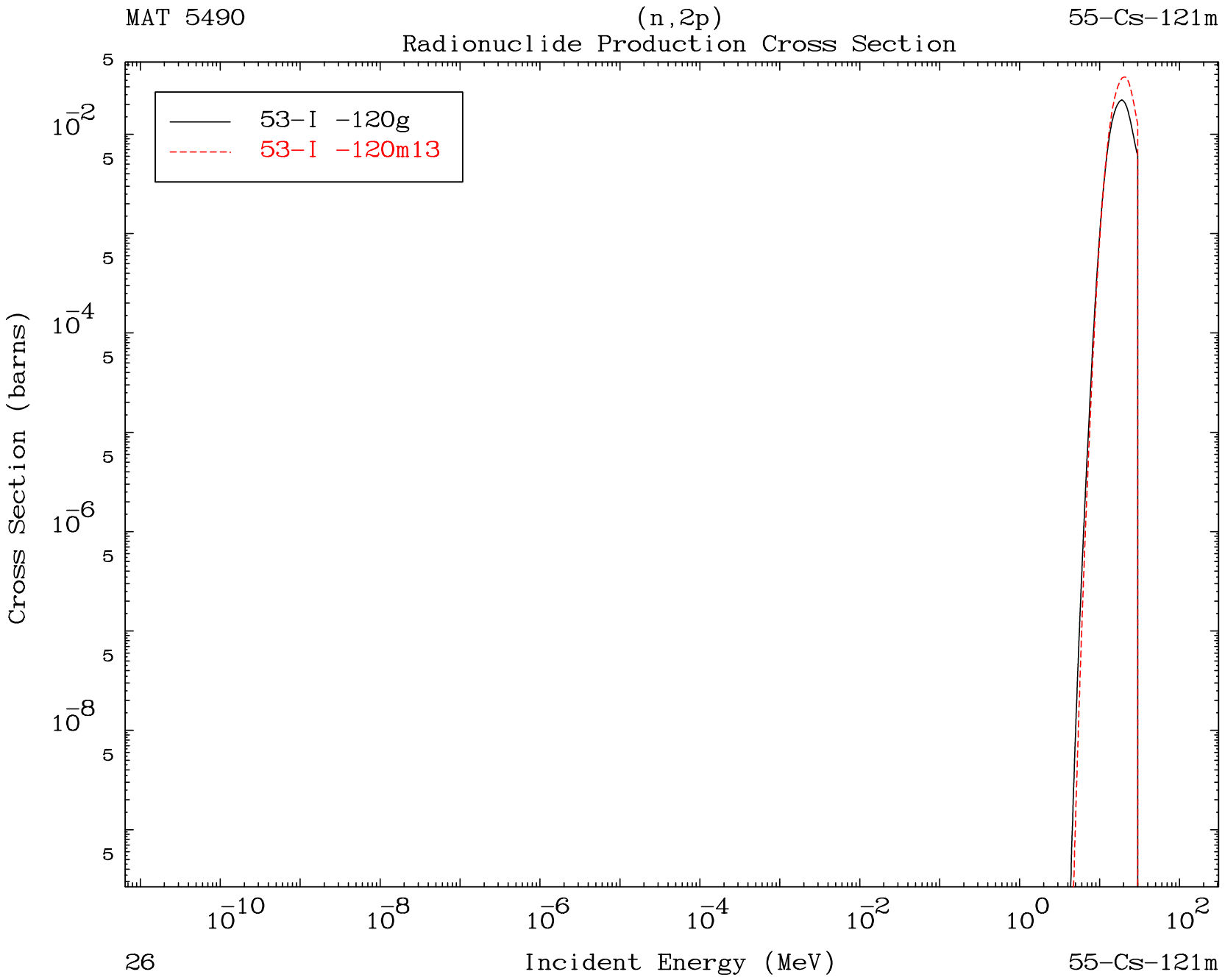

MAT 5490
(n,3n)
55-Cs-121m
Radionuclide Production Cross Section
55-Cs-119g
55-Cs-119m1
Cross Section (barns)
Incident Energy (MeV)
21
55-Cs-121m

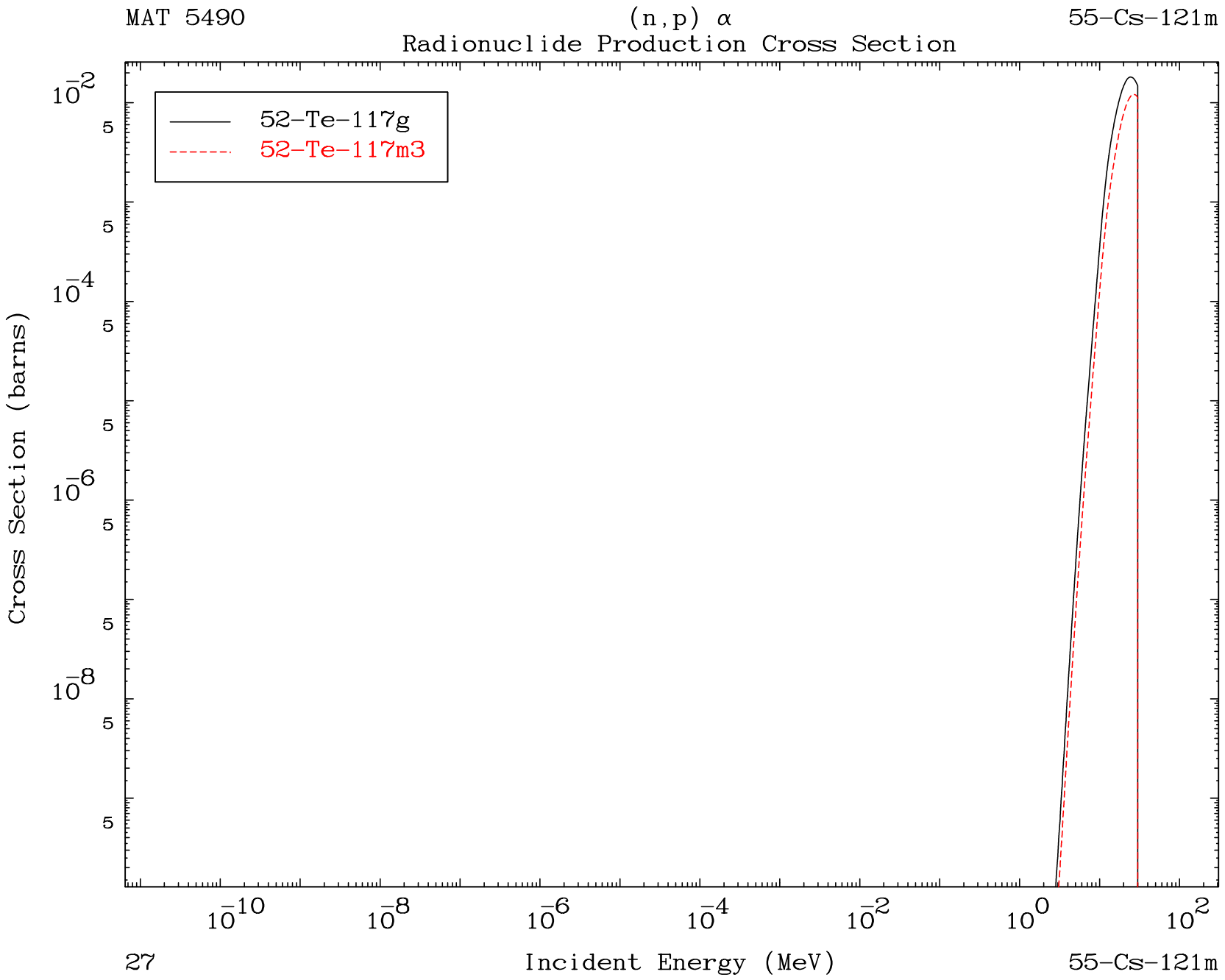

MAT 5490
(n,n') He-3
55-Cs-121m
Radionuclide Production Cross Section
53-I -118g
53-I -118m4
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
22
Incident Energy (MeV)
55-Cs-121m

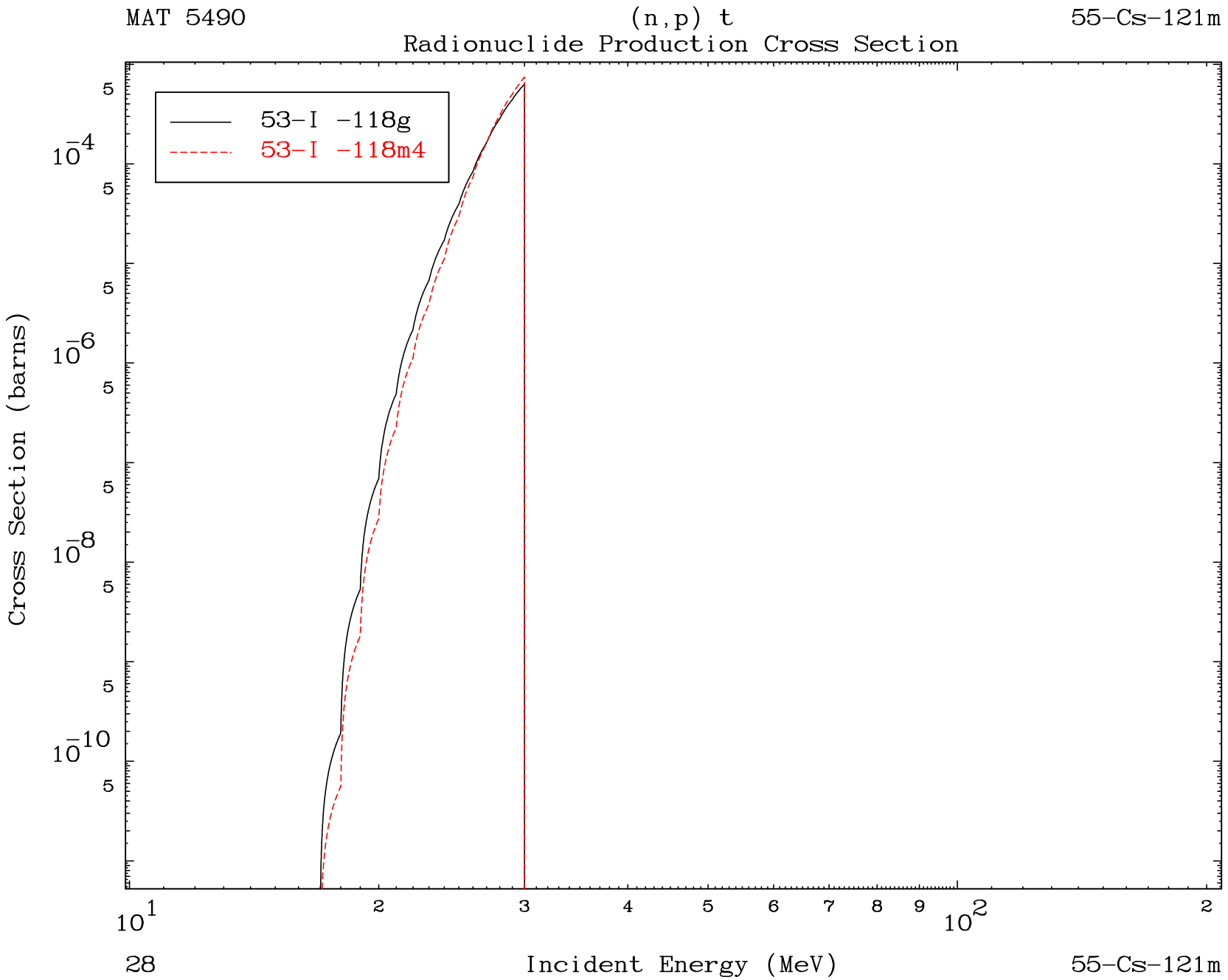

MAT 5490
(n,γ)
55-Cs-121m
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
55-Cs-122g
55-Cs-122m7
55-Cs-122m8
23
55-Cs-121m


MAT 5490
(n,α)
55-Cs-121m
Radionuclide Production Cross Section
Cross Section (barns)
5
10-2
5
10-3
5
10-4
5
10-5
5
53-I -118g
53-I -118m4
10-10
10-8
10-6
10-4
10-2
100
102
24
Incident Energy (MeV)
55-Cs-121m


MAT 5490
(n,3α)
55-Cs-121m
Radionuclide Production Cross Section
49-In-110g
49-In-110m1
Cross Section (barns)
Incident Energy (MeV)
25
55-Cs-121m


MAT 5490
(n,2p)
55-Cs-121m
Radionuclide Production Cross Section
53-I -120g
53-I -120m13
Cross Section (barns)
Incident Energy (MeV)
26
55-Cs-121m


MAT 5490
(n,p) α
55-Cs-121m
Radionuclide Production Cross Section
52-Te-117g
52-Te-117m3
Cross Section (barns)
Incident Energy (MeV)
27
55-Cs-121m


MAT 5490
(n,p) t
55-Cs-121m
Radionuclide Production Cross Section
53-I -118g
53-I -118m4
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
28
55-Cs-121m