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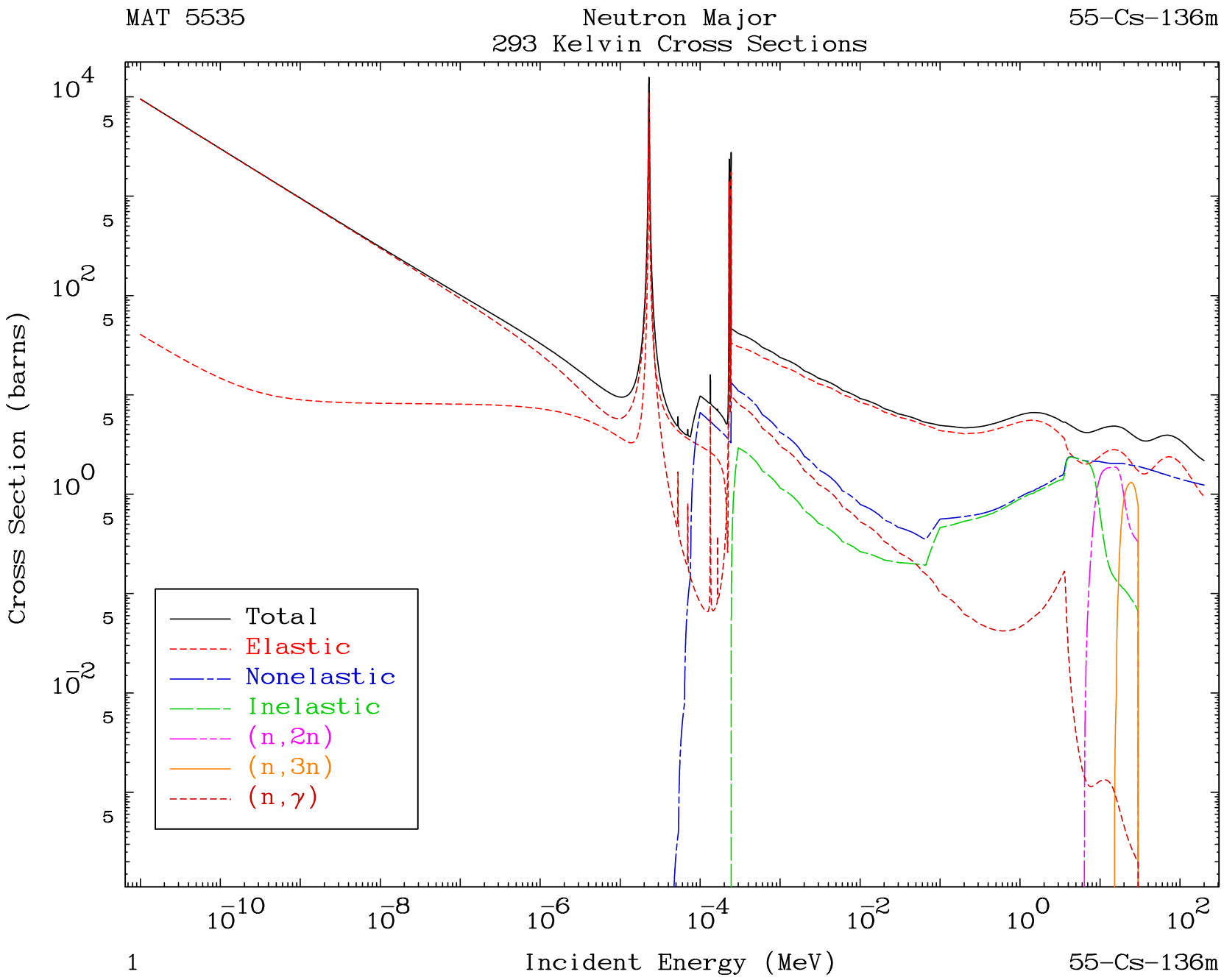
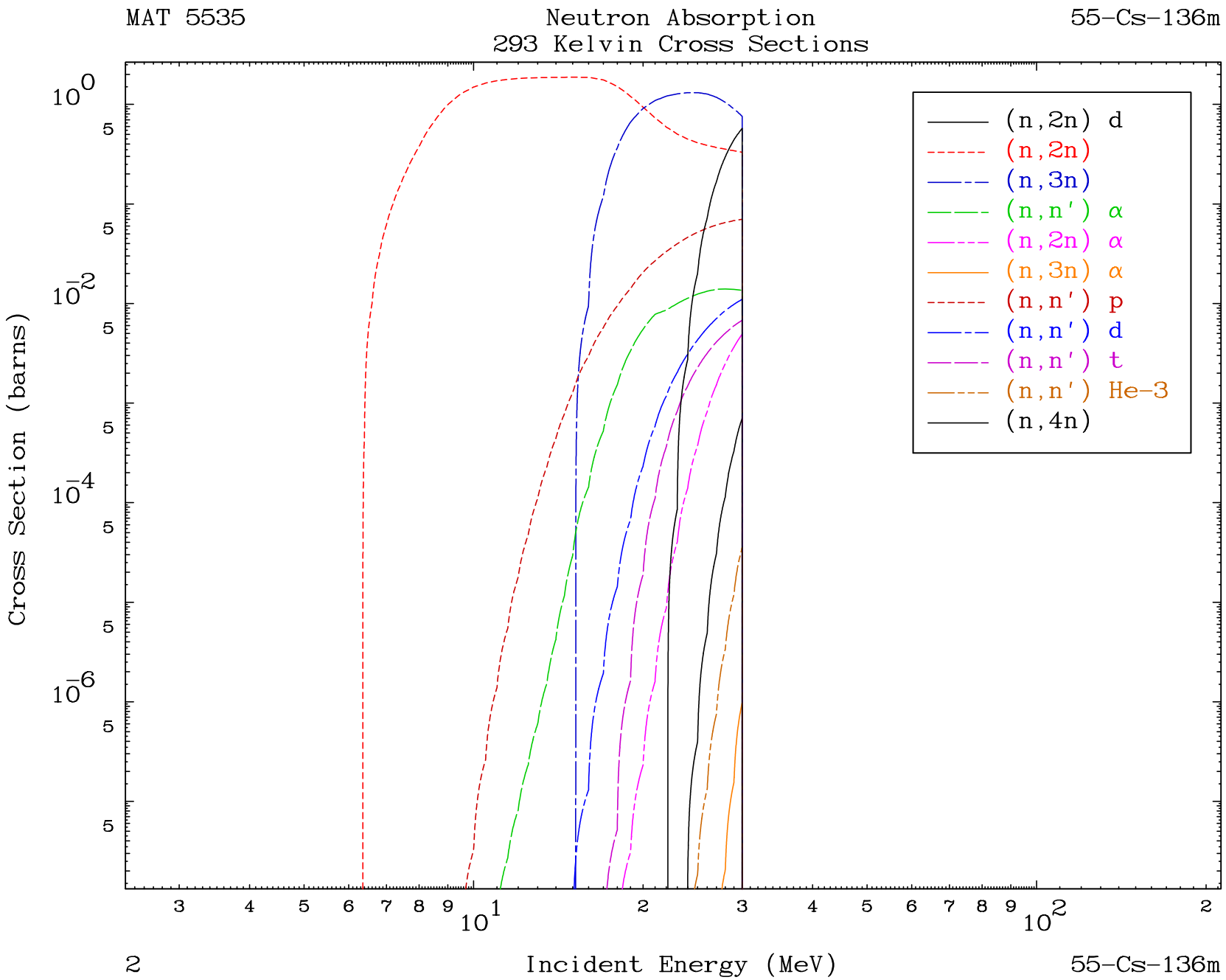
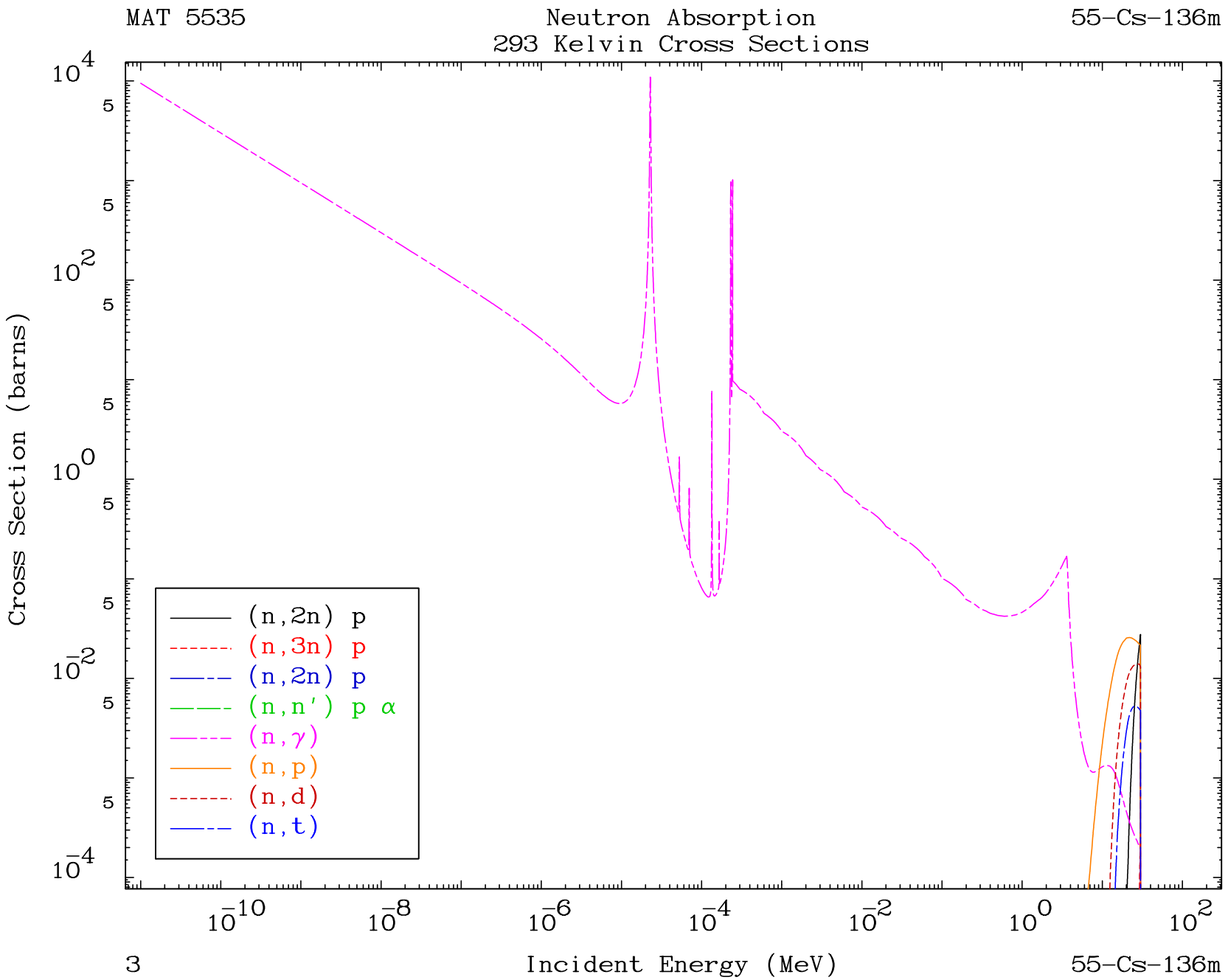
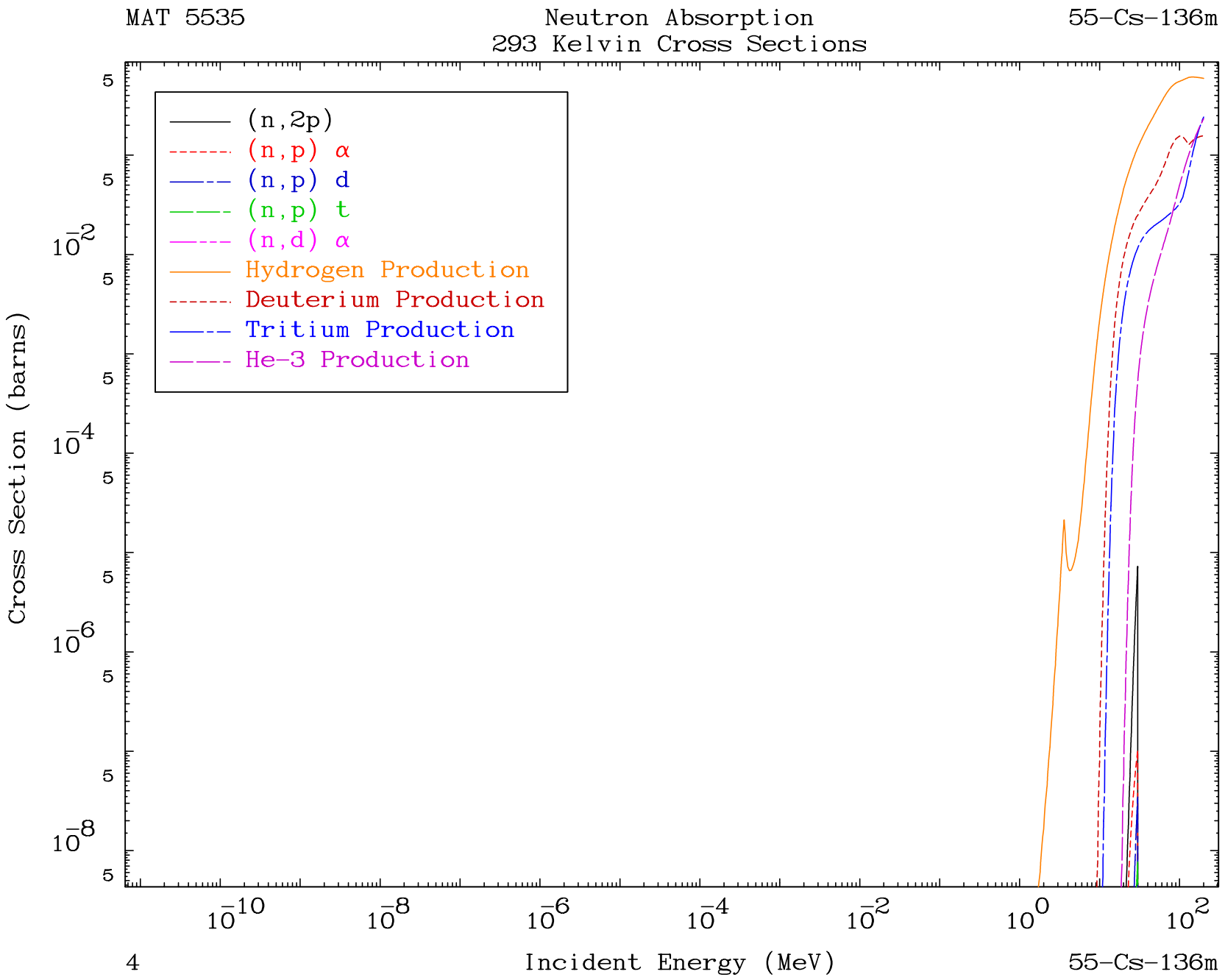
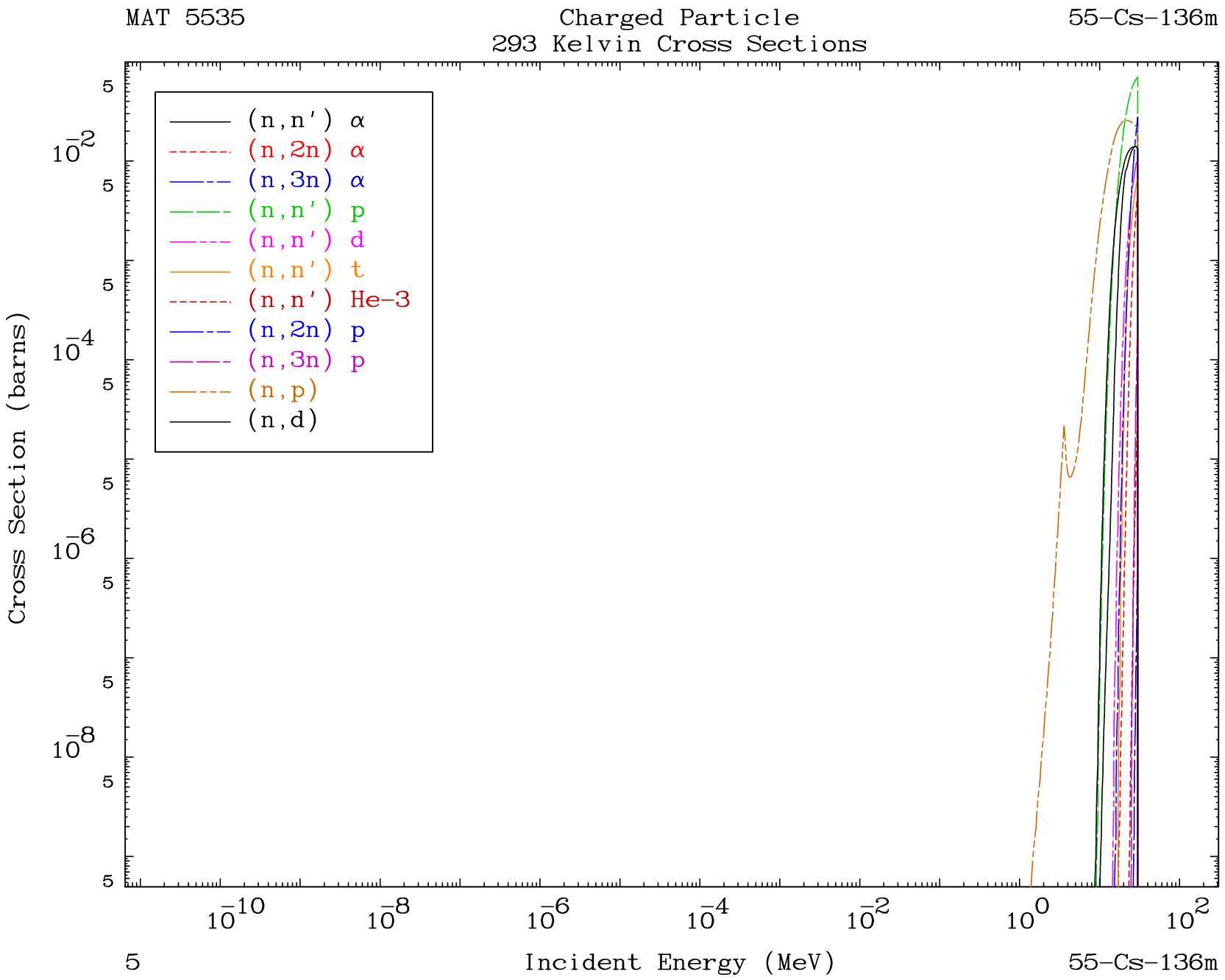
Press Mouse Button to Start

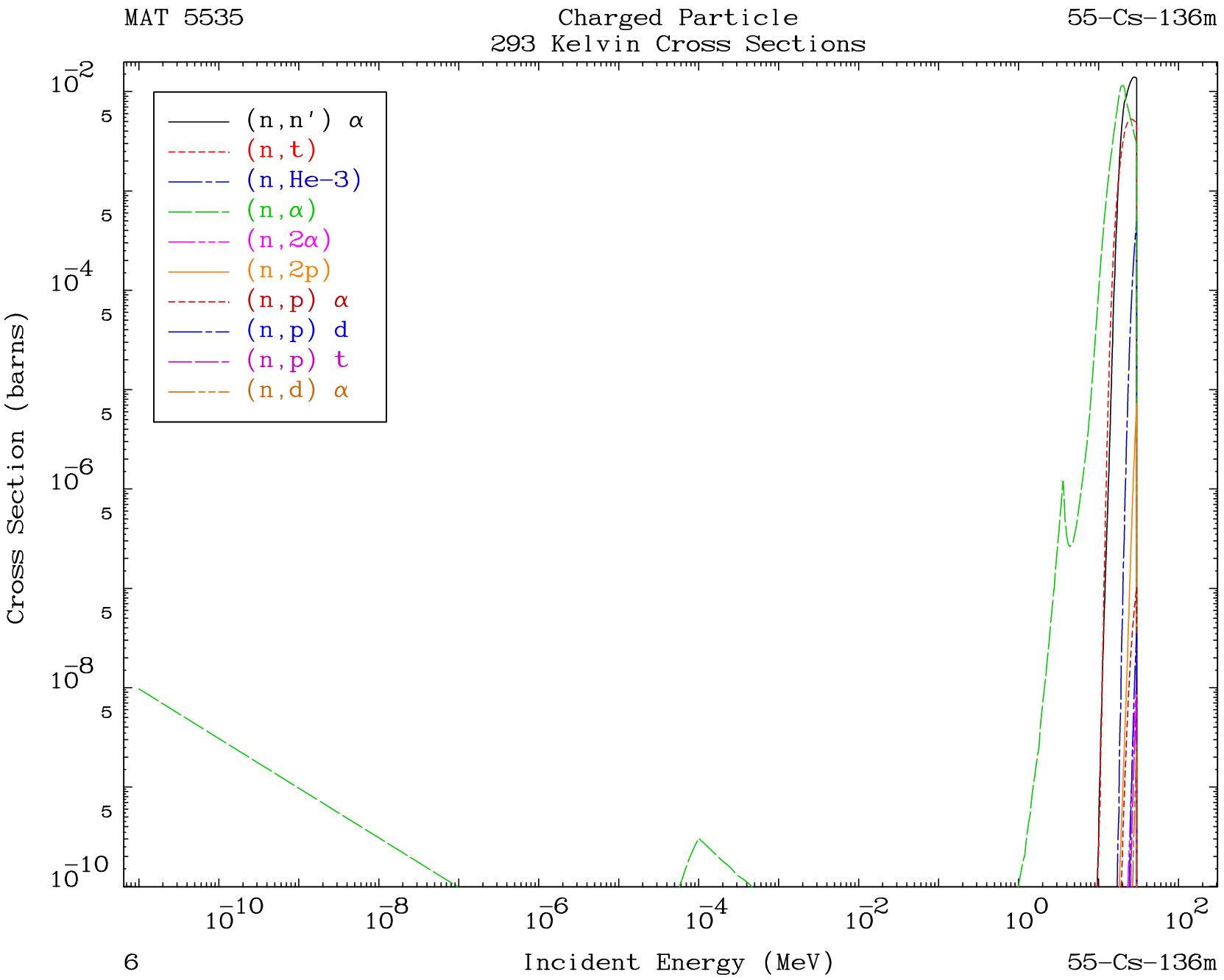

MAT 5535
Neutron Major
293 Kelvin Cross Sections
55-Cs-136m
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136m
1
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)

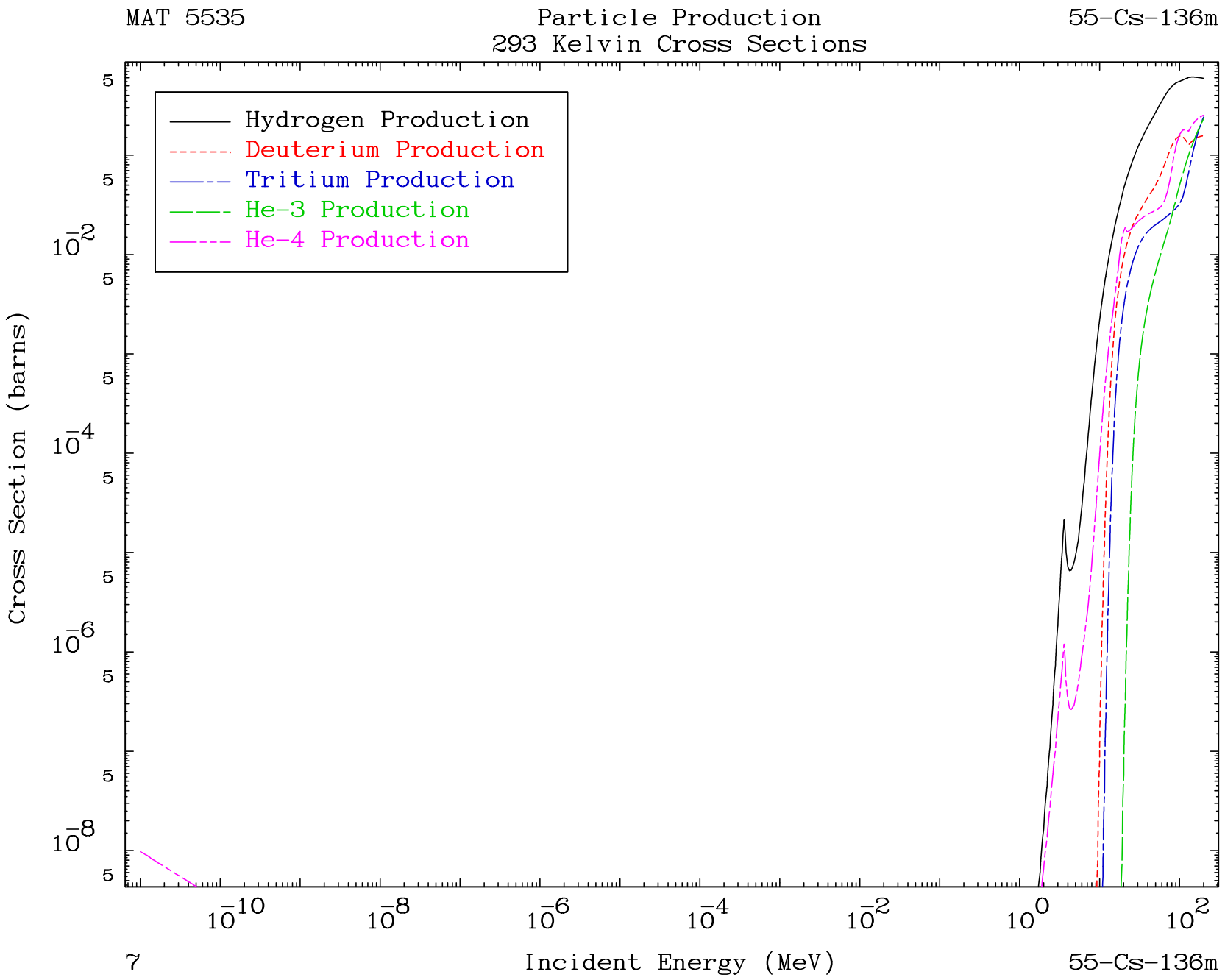

MAT 5535
Neutron Absorption
293 Kelvin Cross Sections
55-Cs-136m
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)

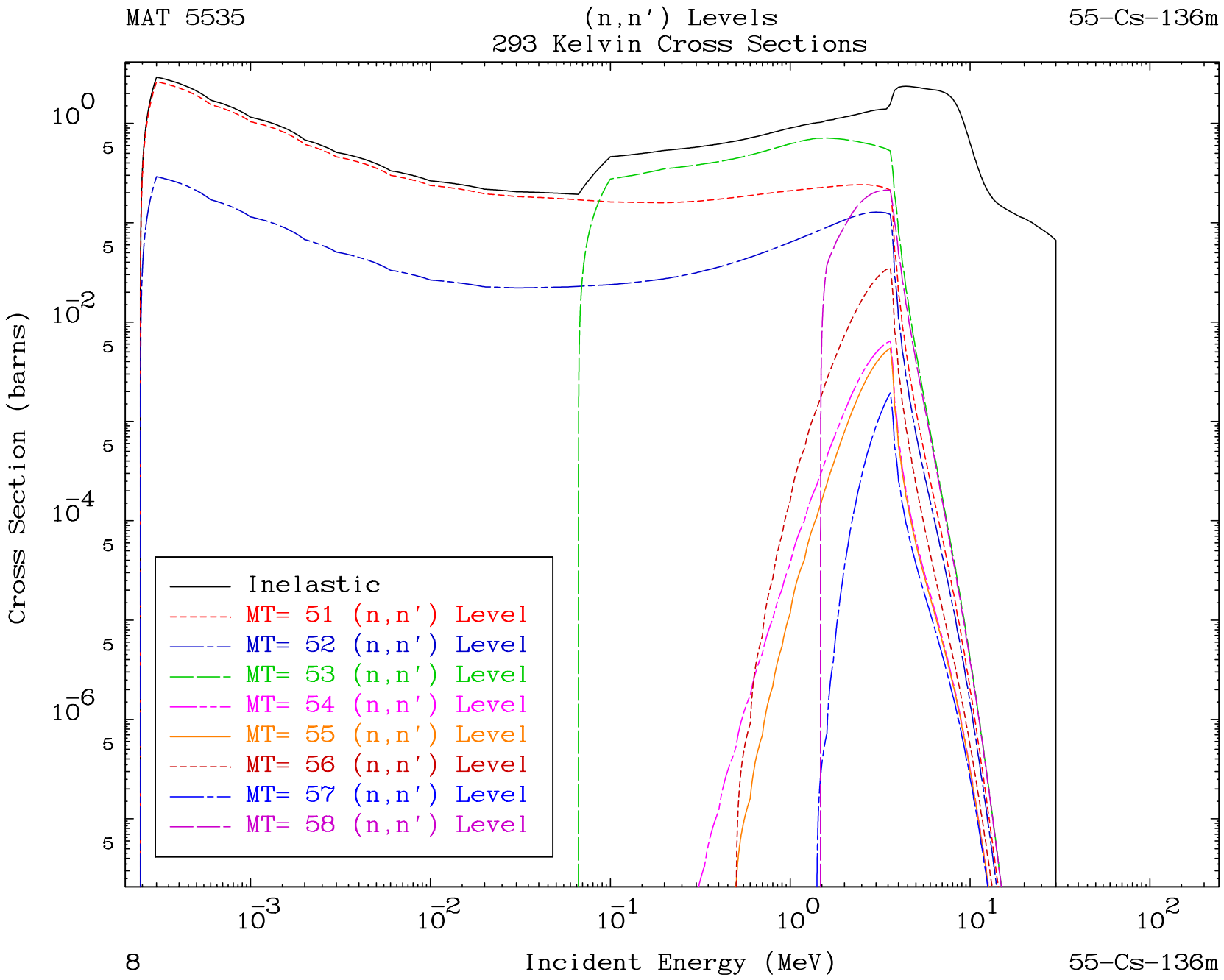

MAT 5535
Neutron Absorption
293 Kelvin Cross Sections
55-Cs-136m
Cross Section (barns)
Incident Energy (MeV)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
3
55-Cs-136m

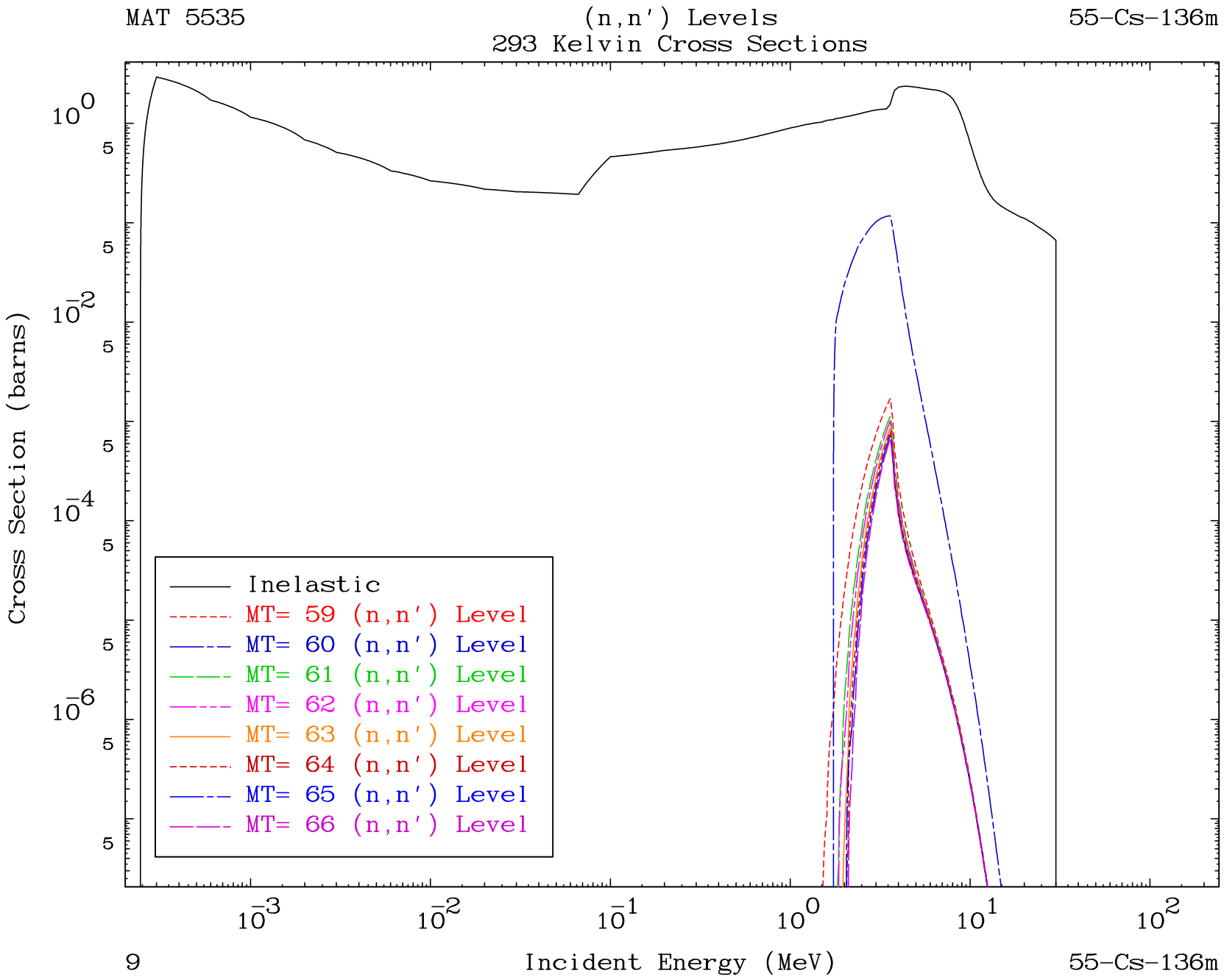

MAT 5535
Neutron Absorption
293 Kelvin Cross Sections
55-Cs-136m
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136m
4

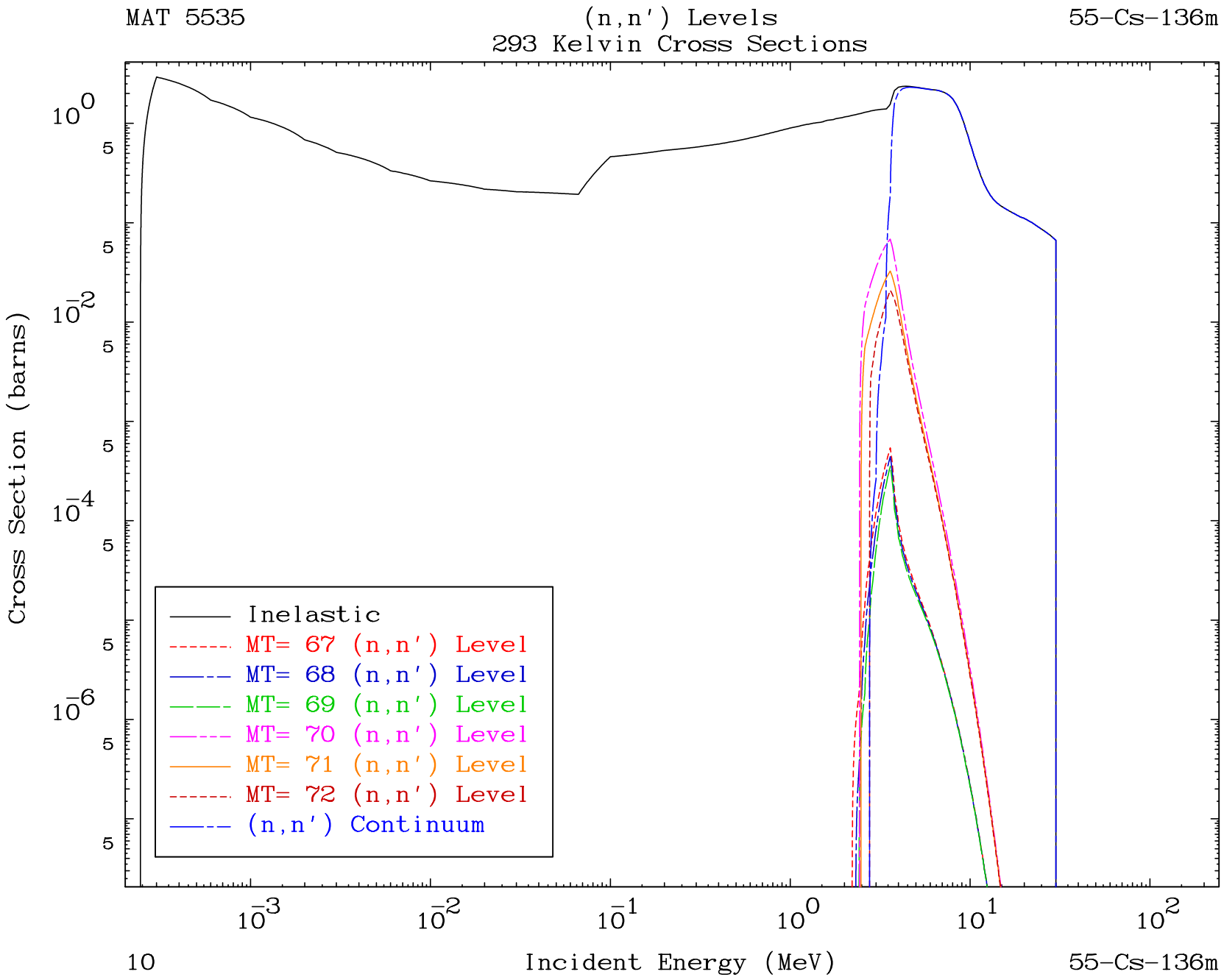

MAT 5535
Charged Particle
55-Cs-136m
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136m

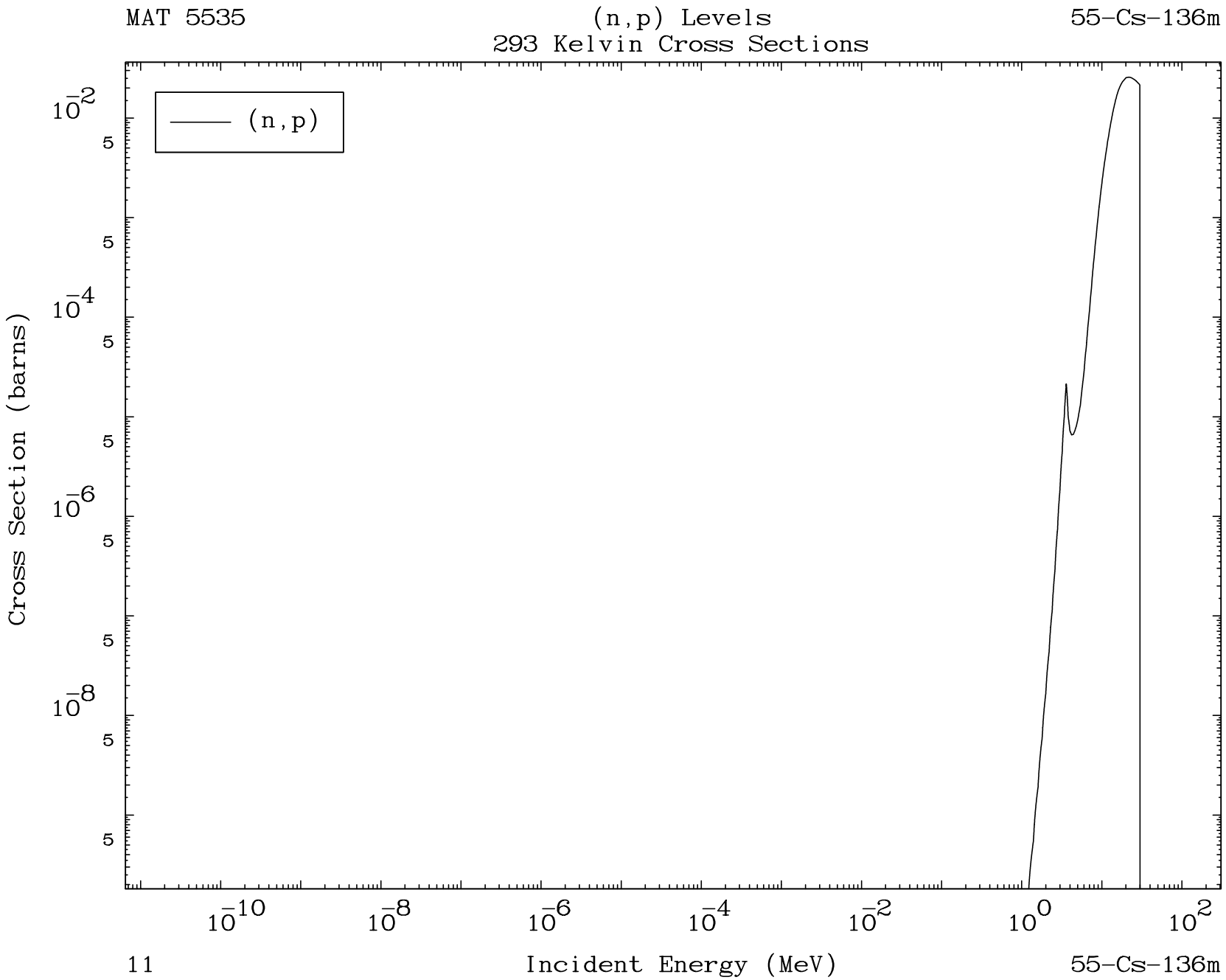

MAT 5535
Charged Particle
293 Kelvin Cross Sections
55-Cs-136m
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136m
6

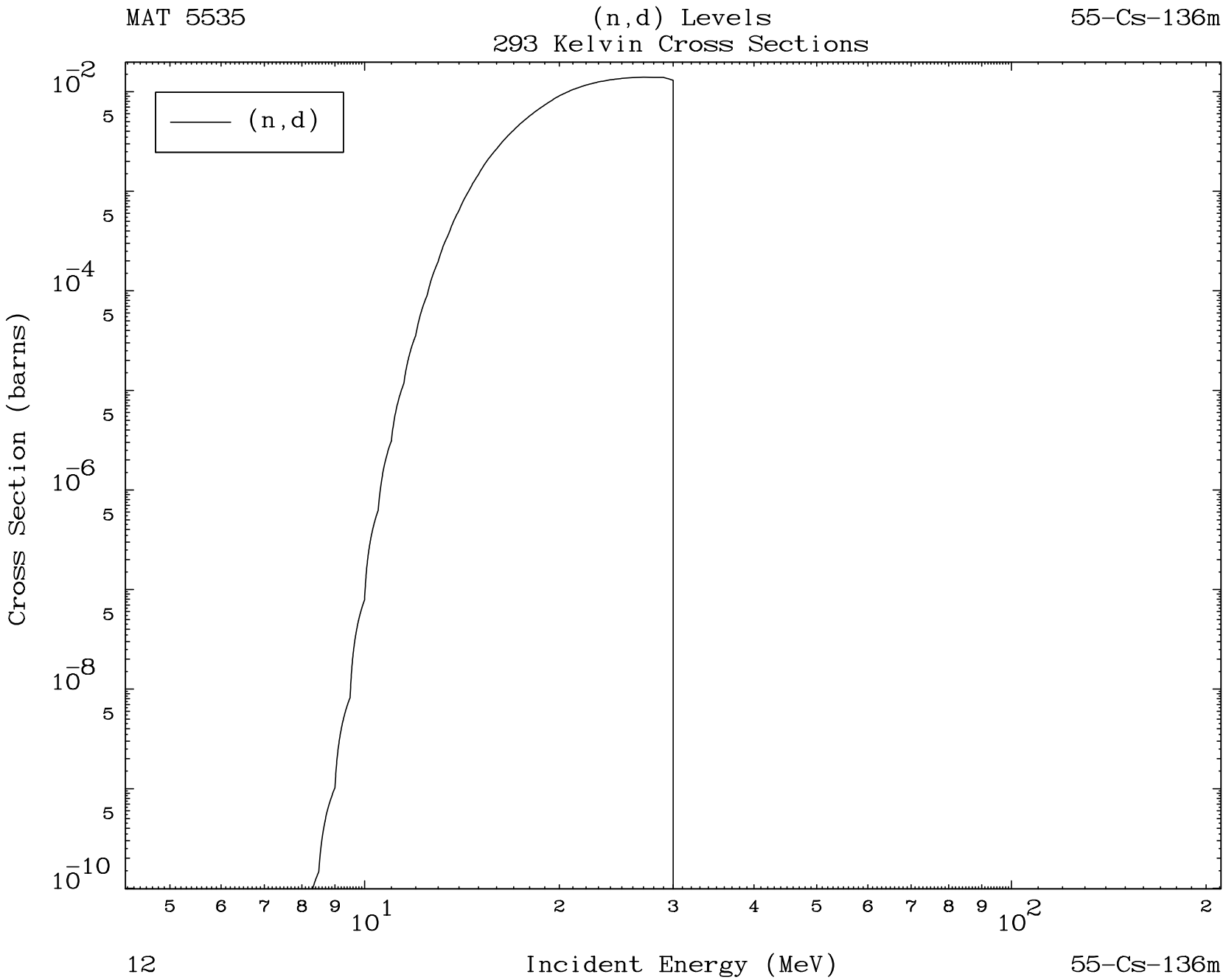

MAT 5535
Particle Production
293 Kelvin Cross Sections
55-Cs-136m
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136m
7

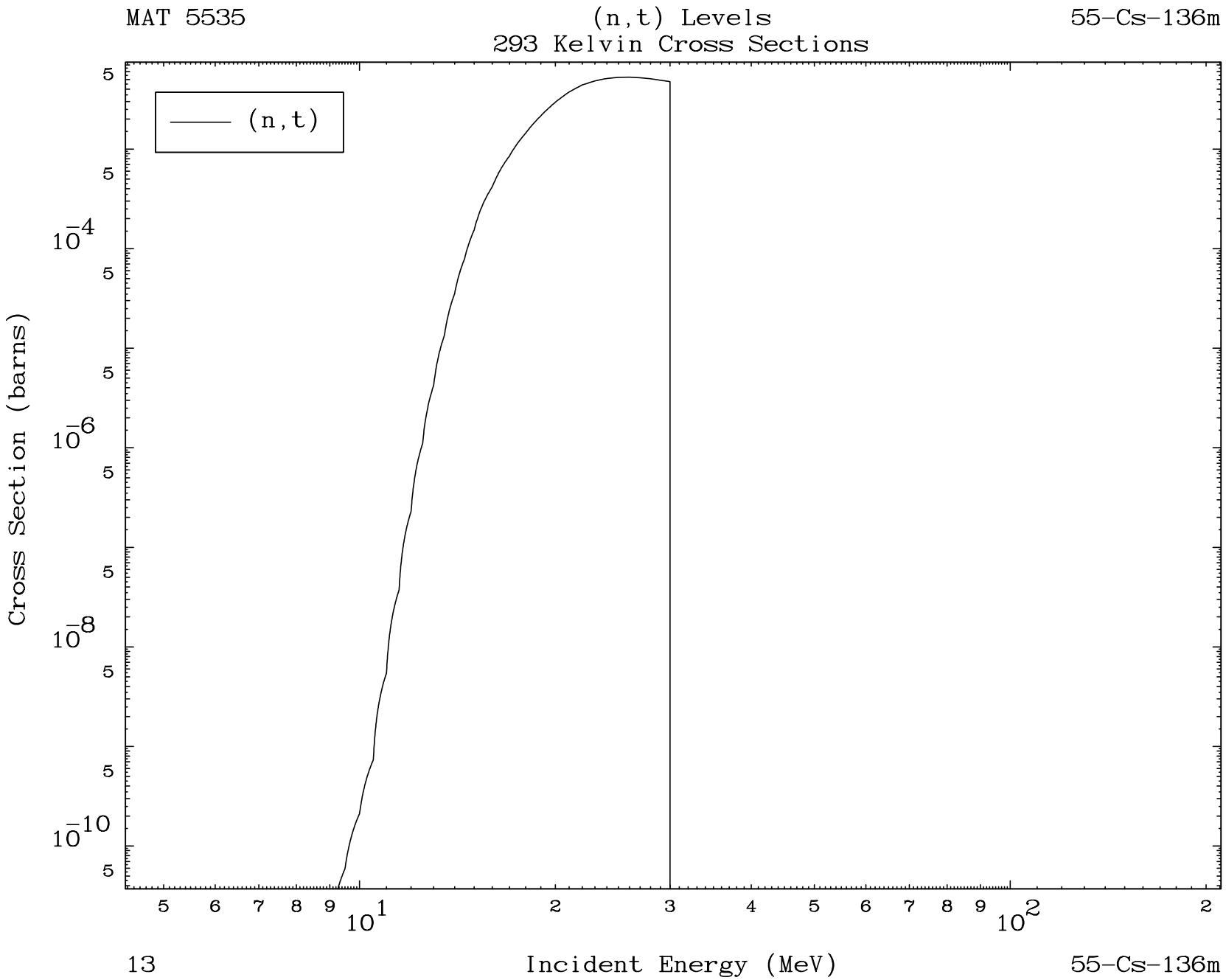

MAT 5535
(n,n') Levels
293 Kelvin Cross Sections
55-Cs-136m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
8
55-Cs-136m

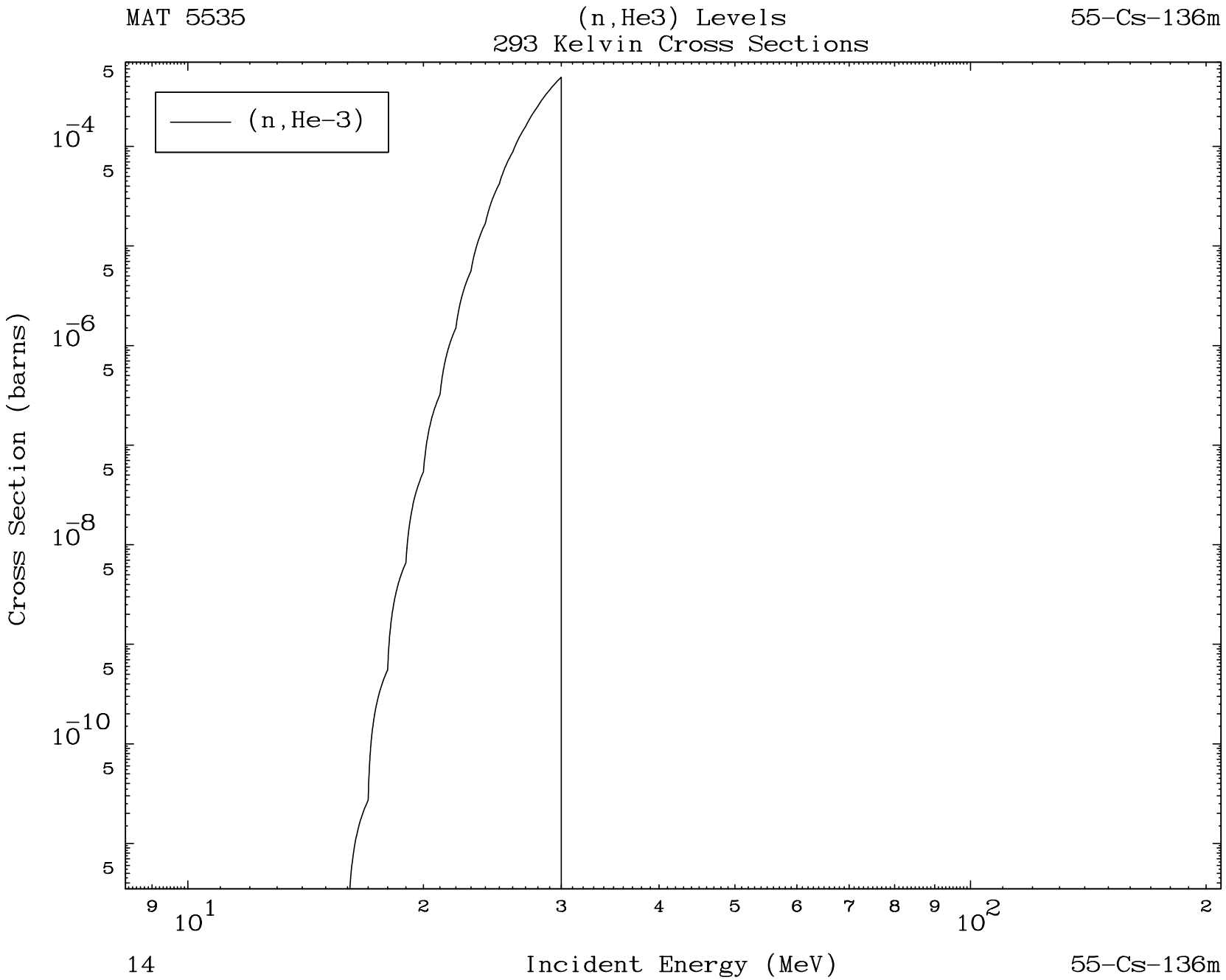

MAT 5535
(n,n') Levels
293 Kelvin Cross Sections
55-Cs-136m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
9
55-Cs-136m

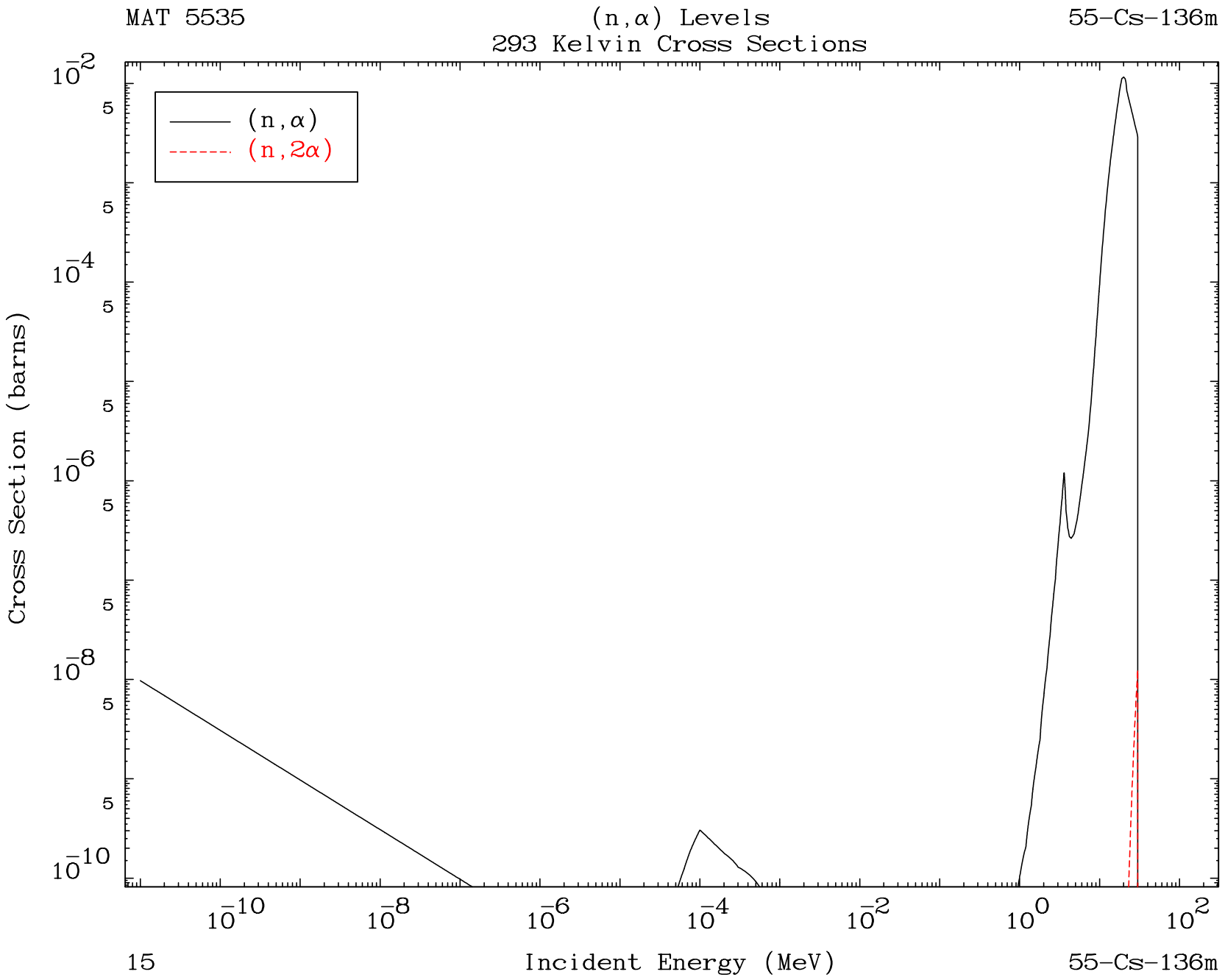

MAT 5535
(n,n') Levels
293 Kelvin Cross Sections
55-Cs-136m
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136m
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
(n,n') Continuum

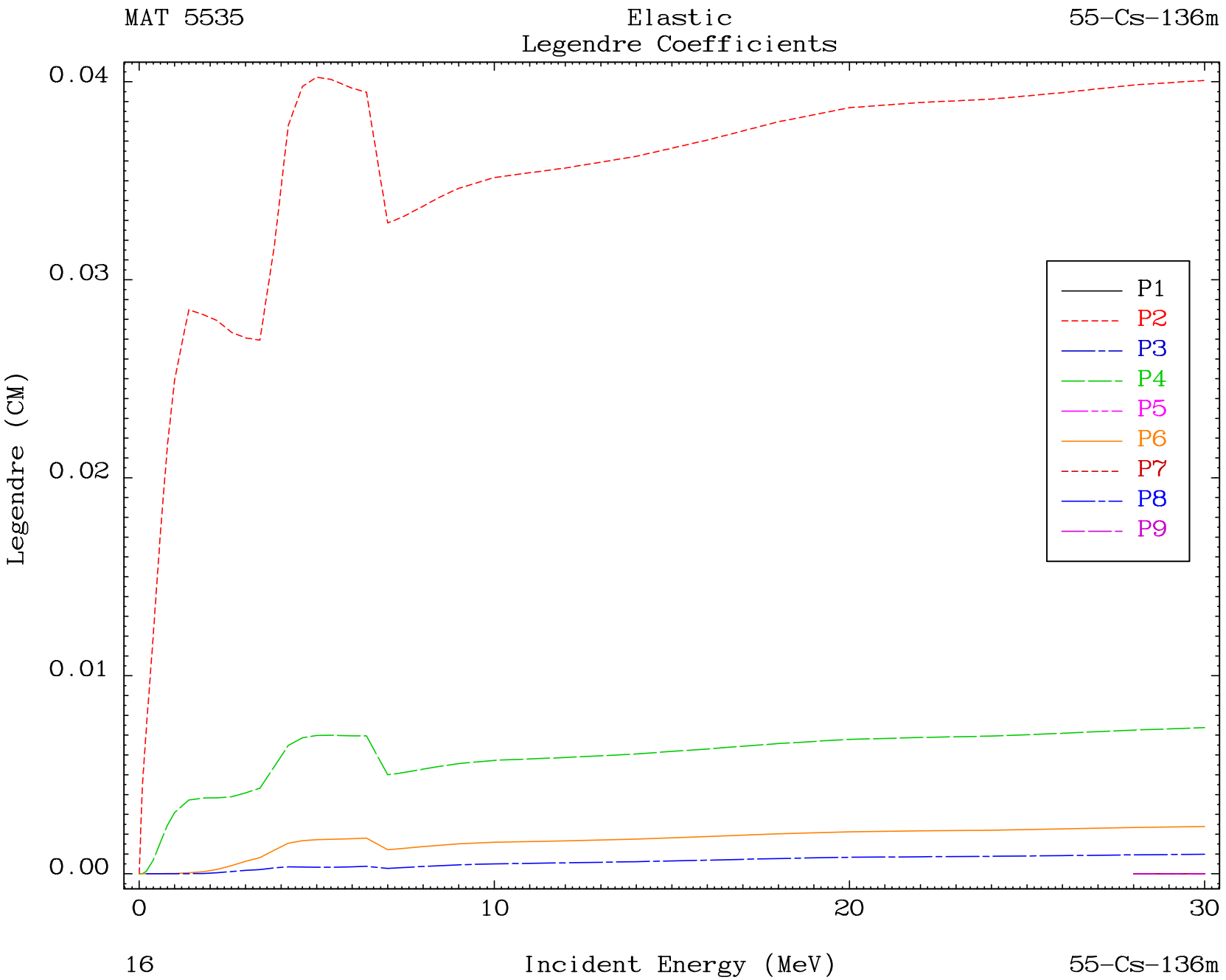

MAT 5535
(n,p) Levels
293 Kelvin Cross Sections
55-Cs-136m
(n,p)
Cross Section (barns)
10^-2
5
10^-4
5
10^-6
5
10^-8
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
11
Incident Energy (MeV)
55-Cs-136m

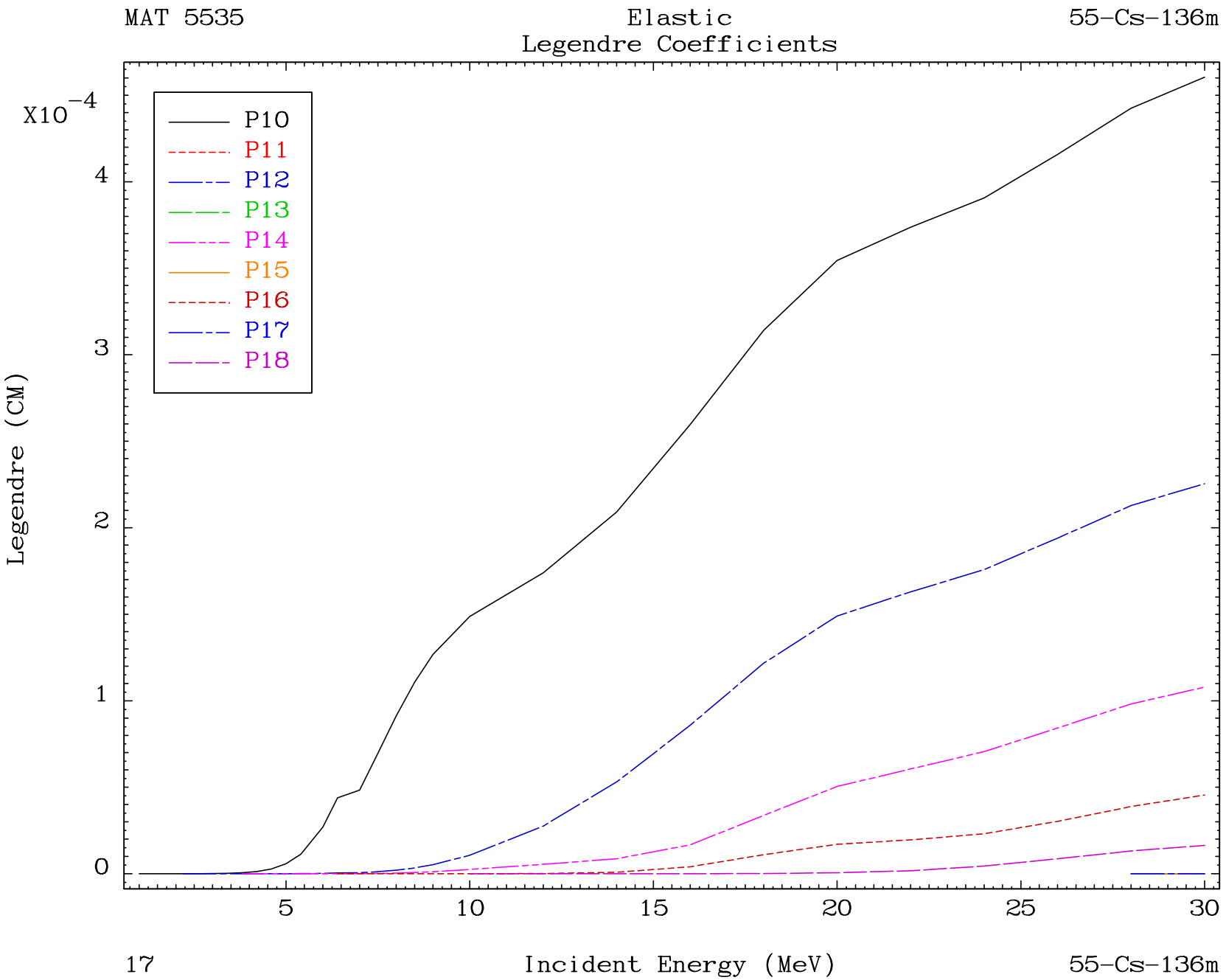

MAT 5535
(n,d) Levels
55-Cs-136m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
55-Cs-136m

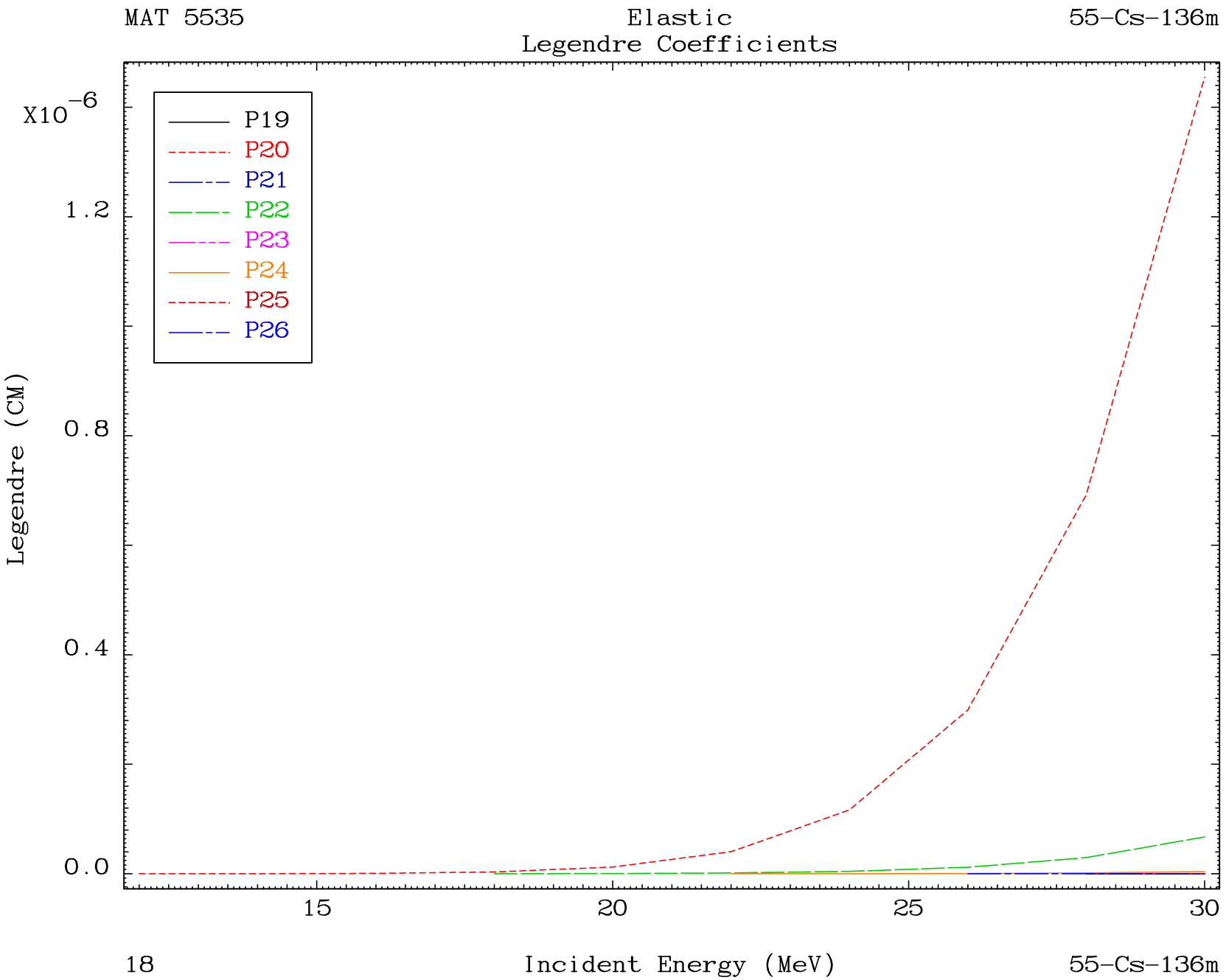

MAT 5535
(n,t) Levels
55-Cs-136m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
55-Cs-136m

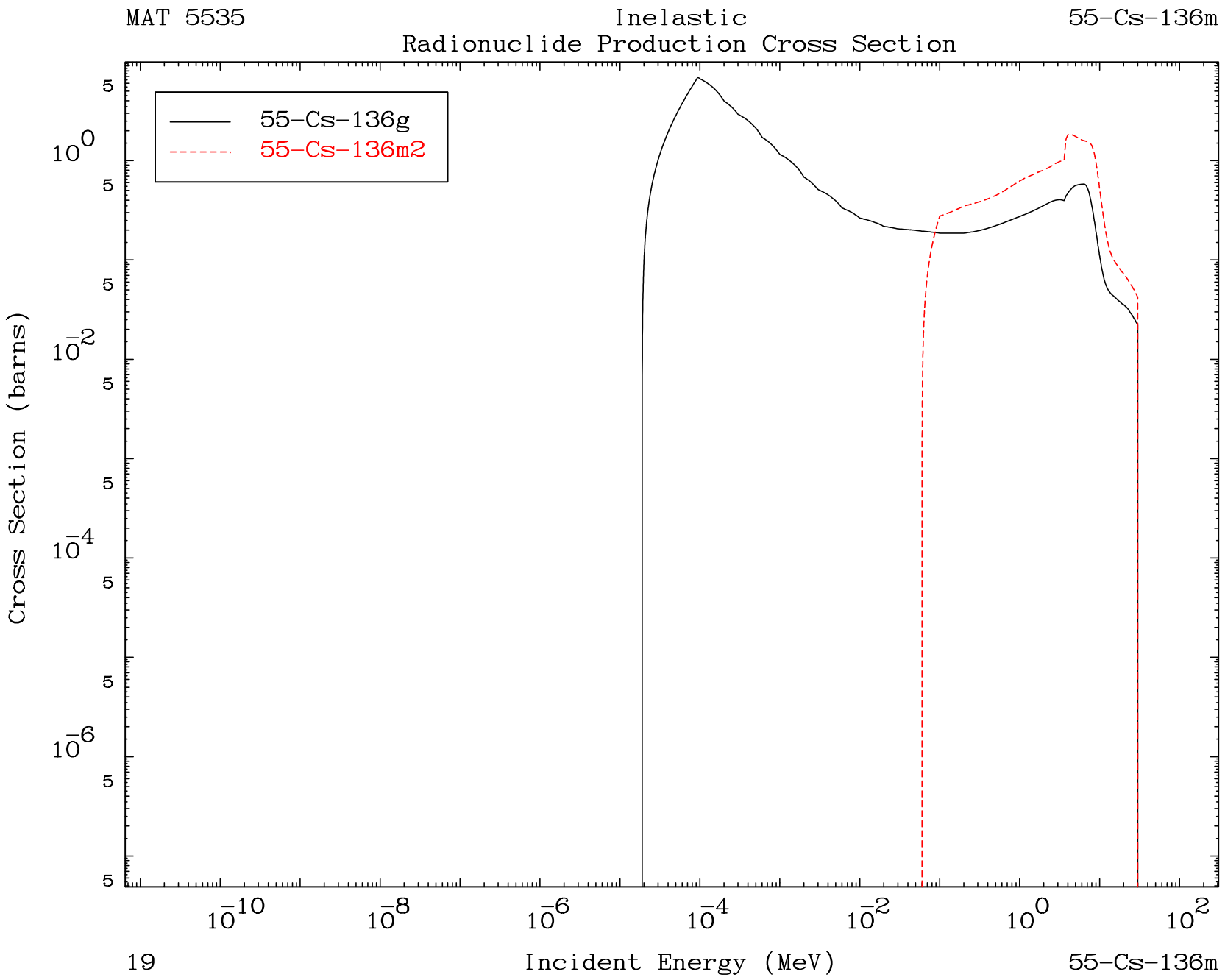

MAT 5535
(n,He3) Levels
55-Cs-136m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
14
55-Cs-136m

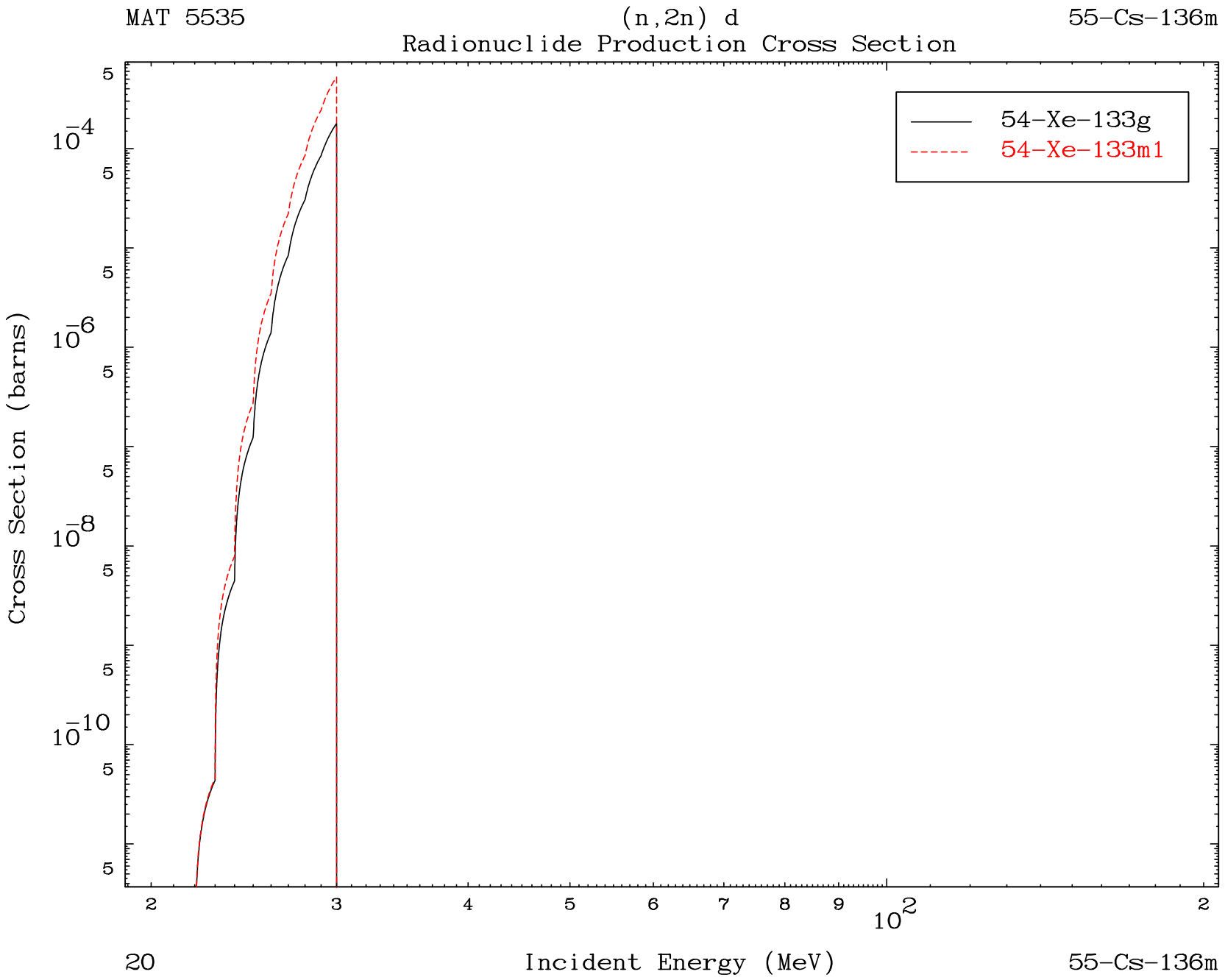

MAT 5535
(n,α) Levels
293 Kelvin Cross Sections
55-Cs-136m
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
15
55-Cs-136m

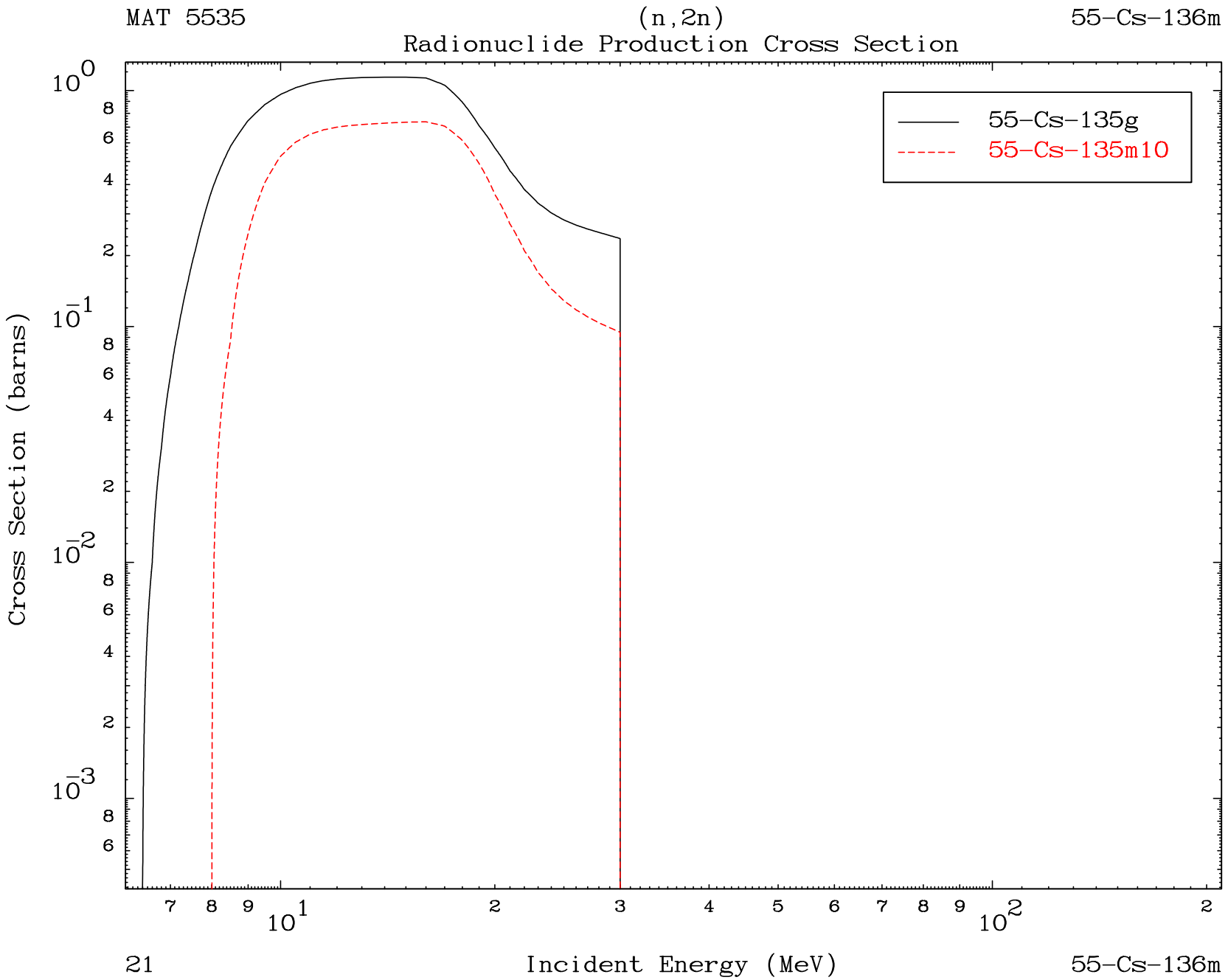

MAT 5535
Elastic
Legendre Coefficients
55-Cs-136m
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
16
Incident Energy (MeV)
55-Cs-136m

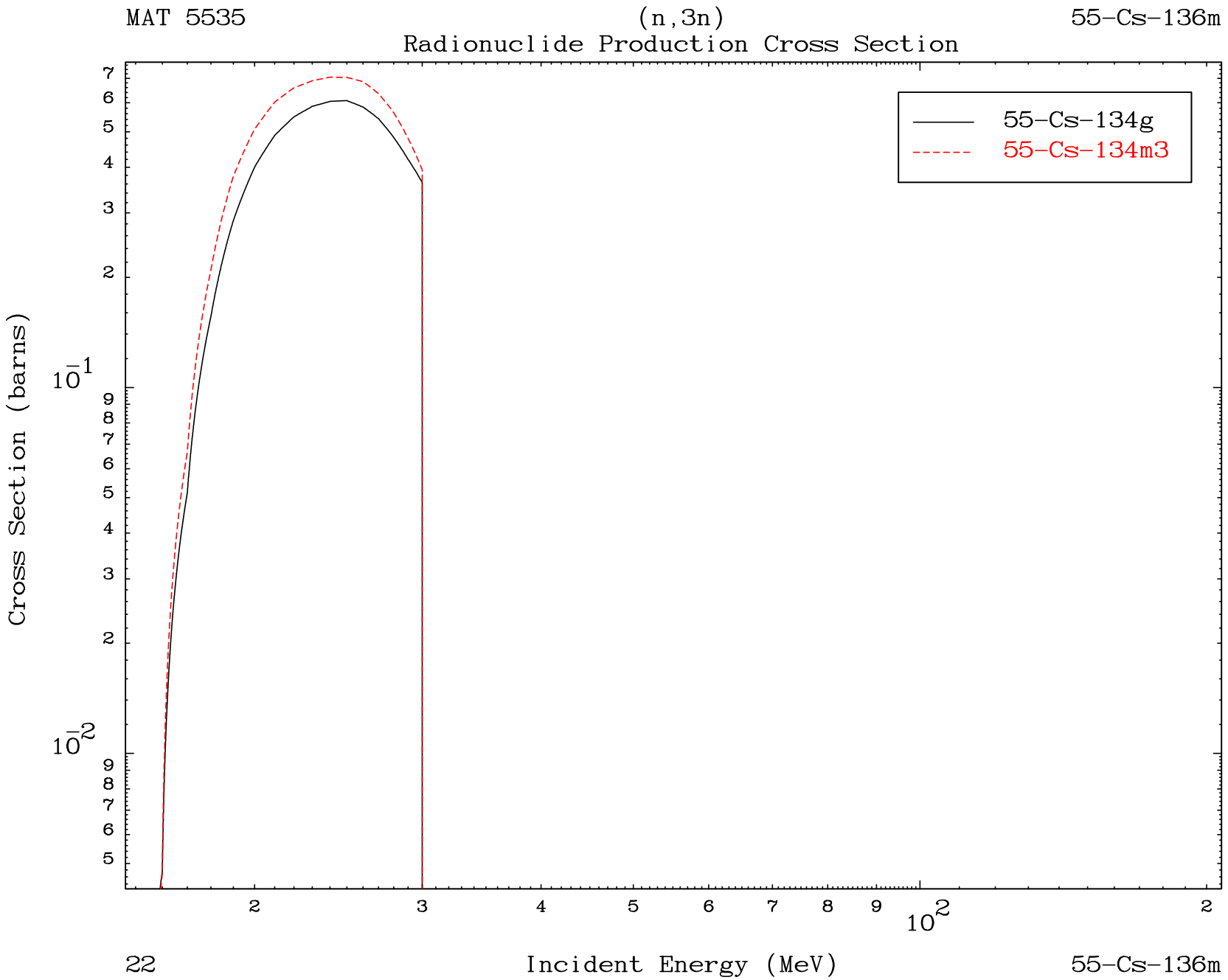

MAT 5535
Elastic
Legendre Coefficients
55-Cs-136m
X10^{-4}
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0
1
2
3
4
5
10
15
20
25
30
17
Incident Energy (MeV)
55-Cs-136m

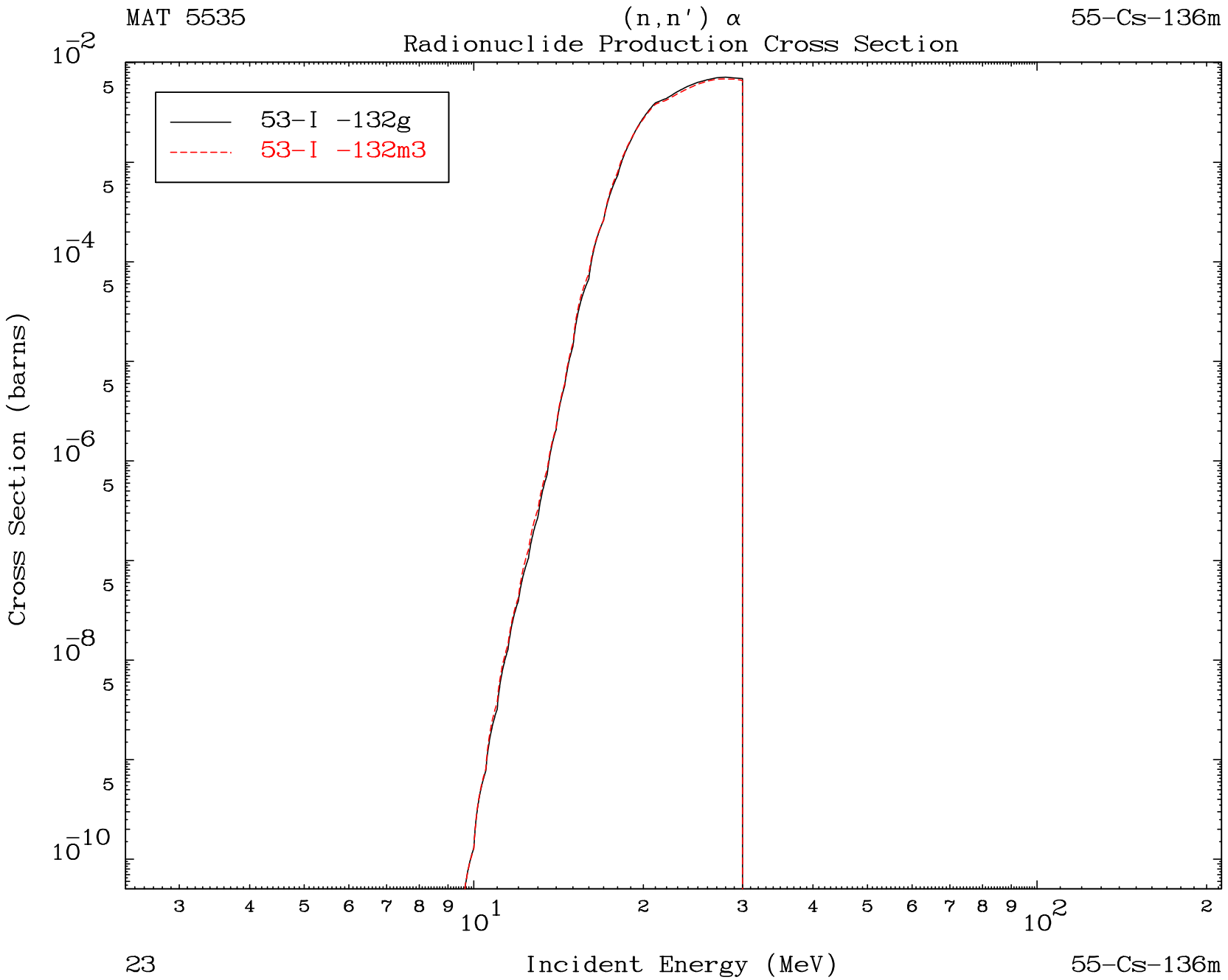

MAT 5535
Elastic
Legendre Coefficients
55-Cs-136m
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
15
20
25
30
18
Incident Energy (MeV)
55-Cs-136m

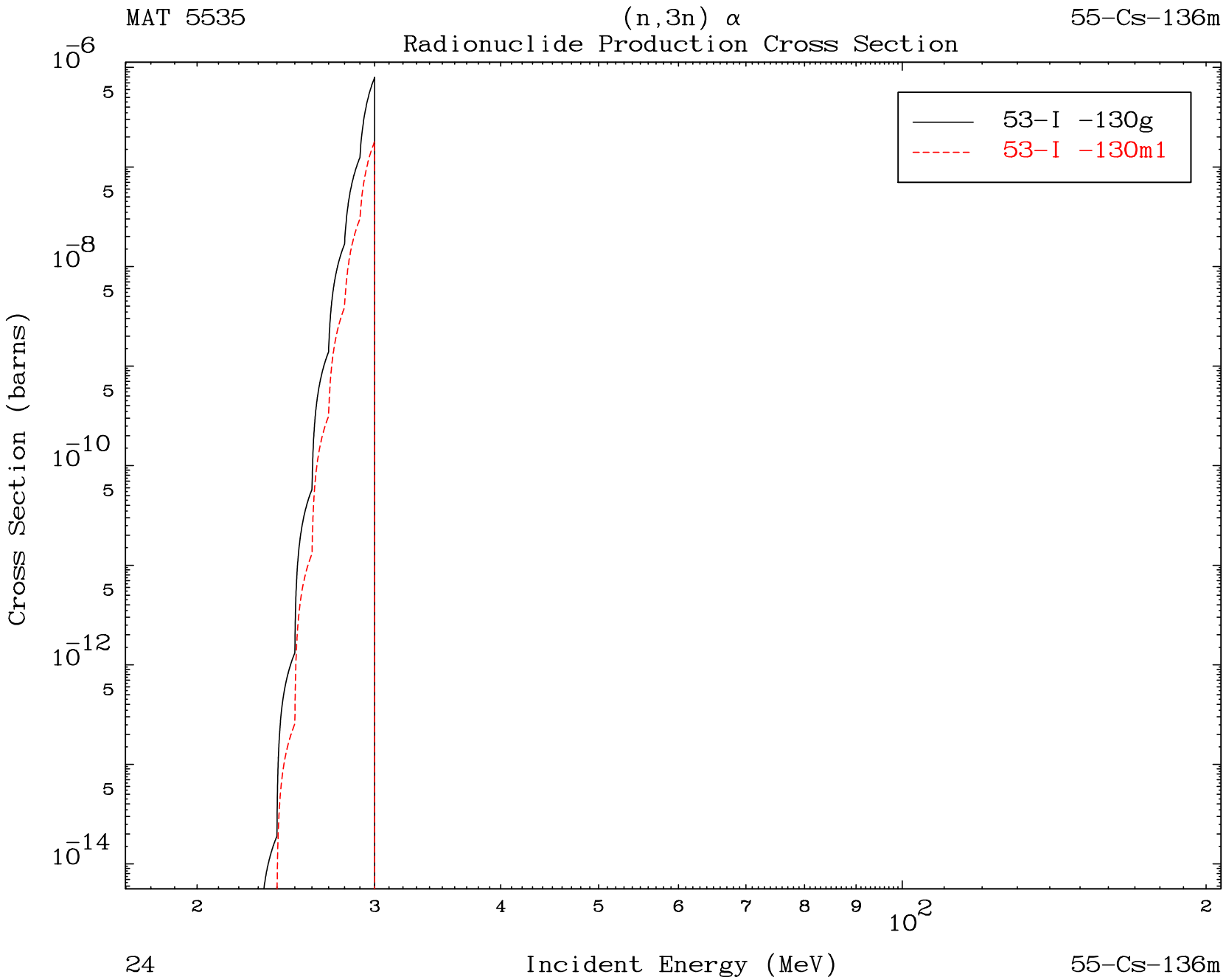

MAT 5535
Inelastic
55-Cs-136m
Radionuclide Production Cross Section
55-Cs-136g
55-Cs-136m2
Cross Section (barns)
Incident Energy (MeV)
19
55-Cs-136m

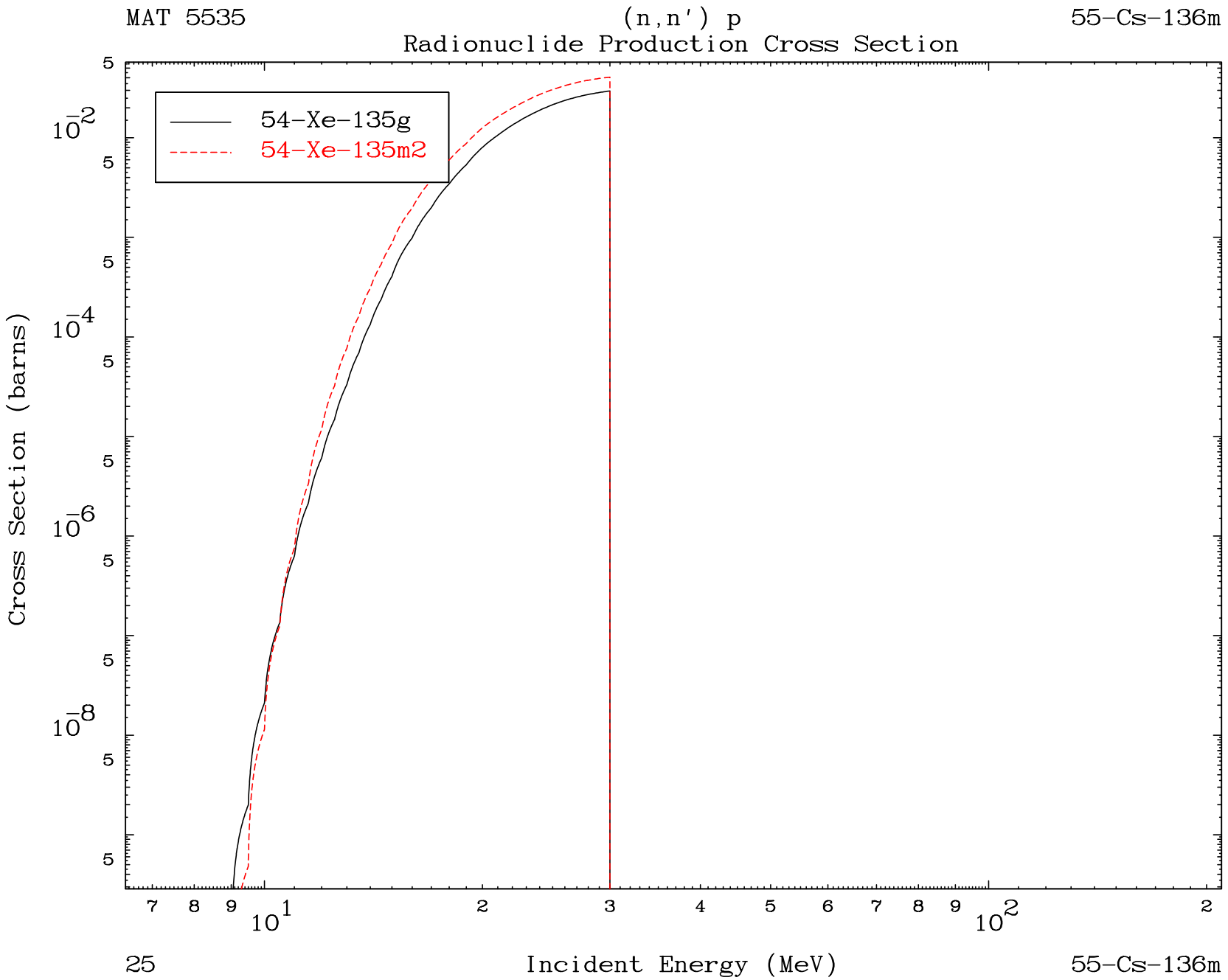

MAT 5535
(n,2n) d
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
Incident Energy (MeV)
20
55-Cs-136m

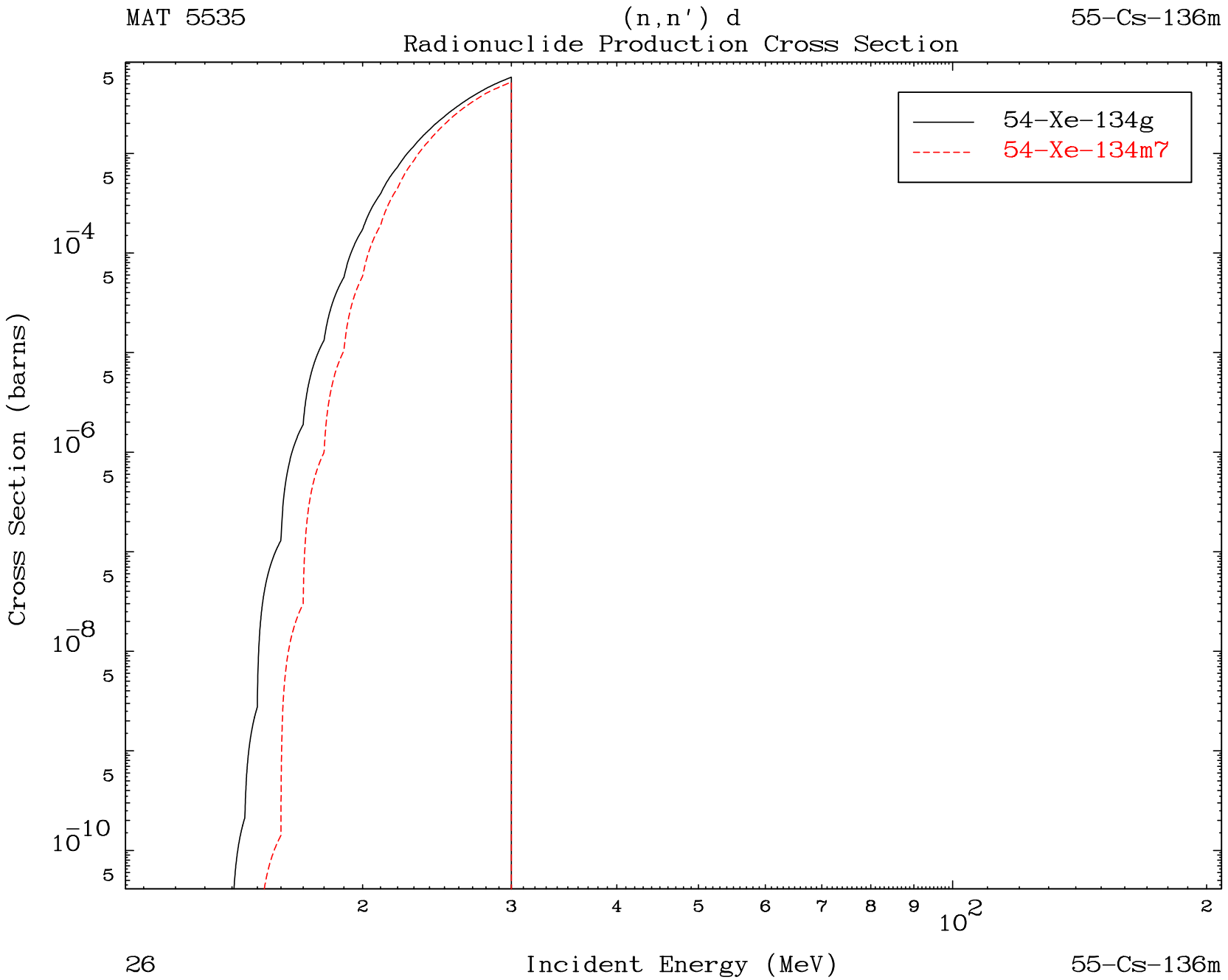

MAT 5535
(n,2n)
55-Cs-136m
Radionuclide Production Cross Section
55-Cs-135g
55-Cs-135m10
Cross Section (barns)
Incident Energy (MeV)
21
55-Cs-136m

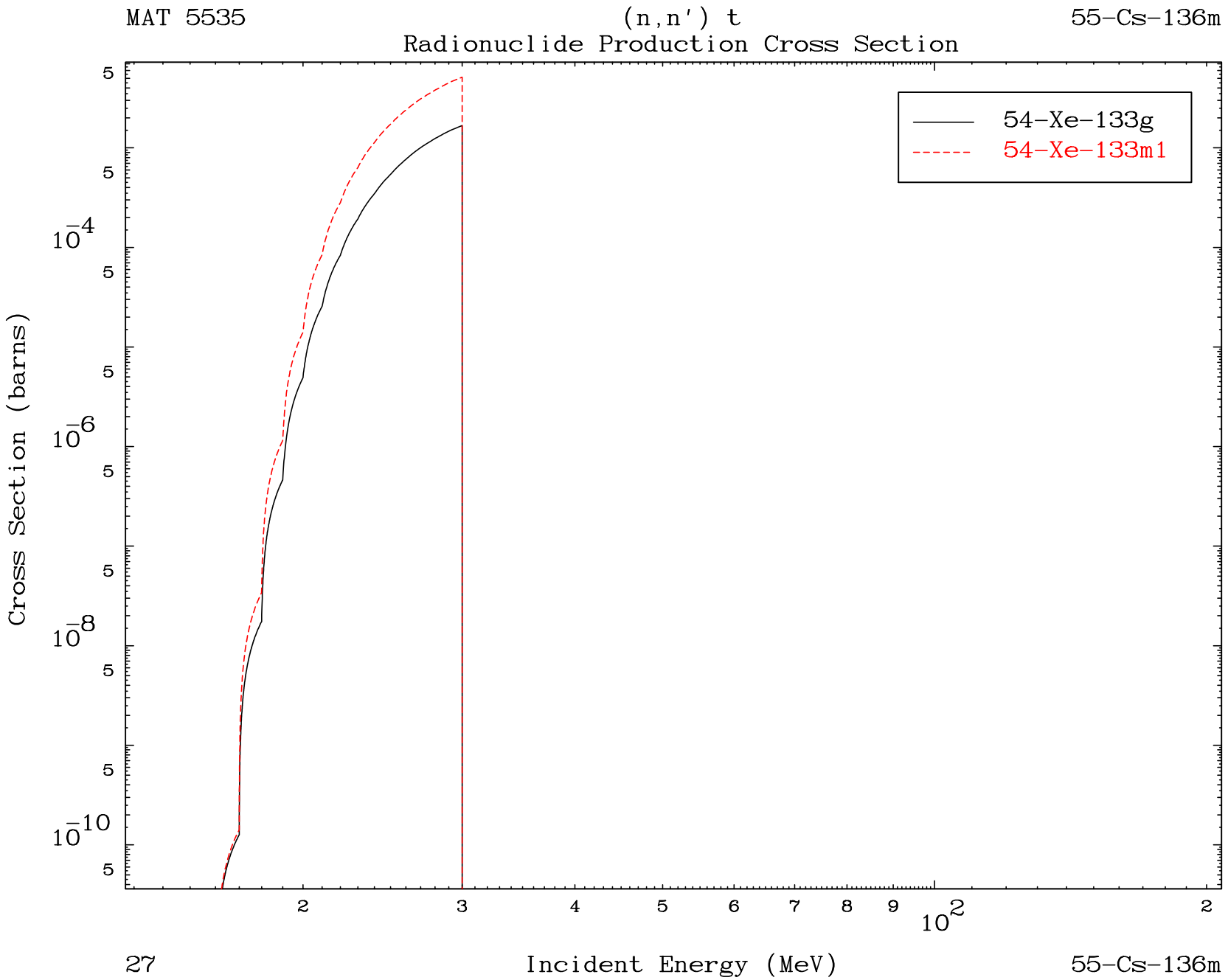

MAT 5535
(n,3n)
55-Cs-136m
Radionuclide Production Cross Section
55-Cs-134g
55-Cs-134m3
Cross Section (barns)
Incident Energy (MeV)
22
55-Cs-136m

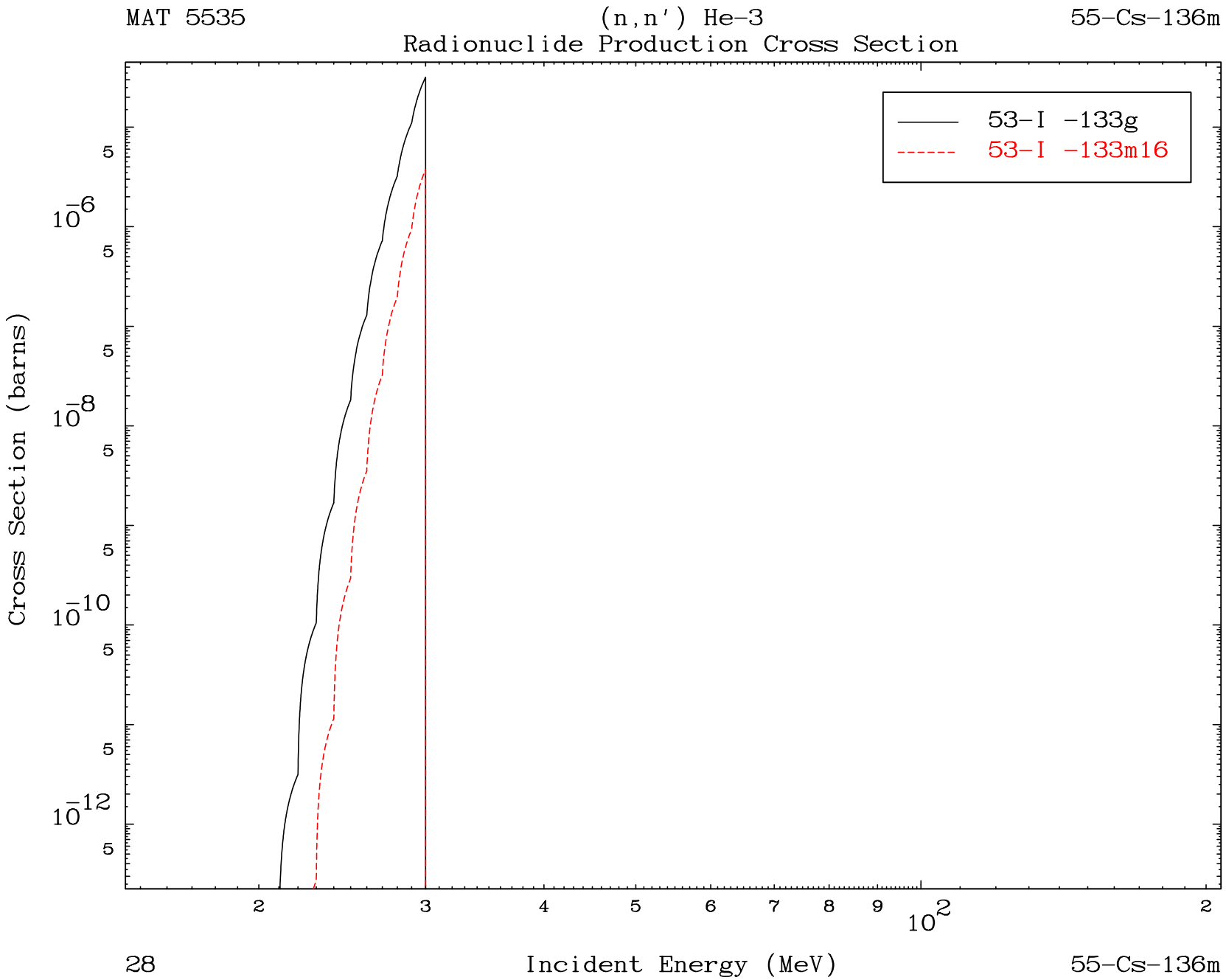

MAT 5535
(n,n') α
55-Cs-136m
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
Incident Energy (MeV)
23
55-Cs-136m

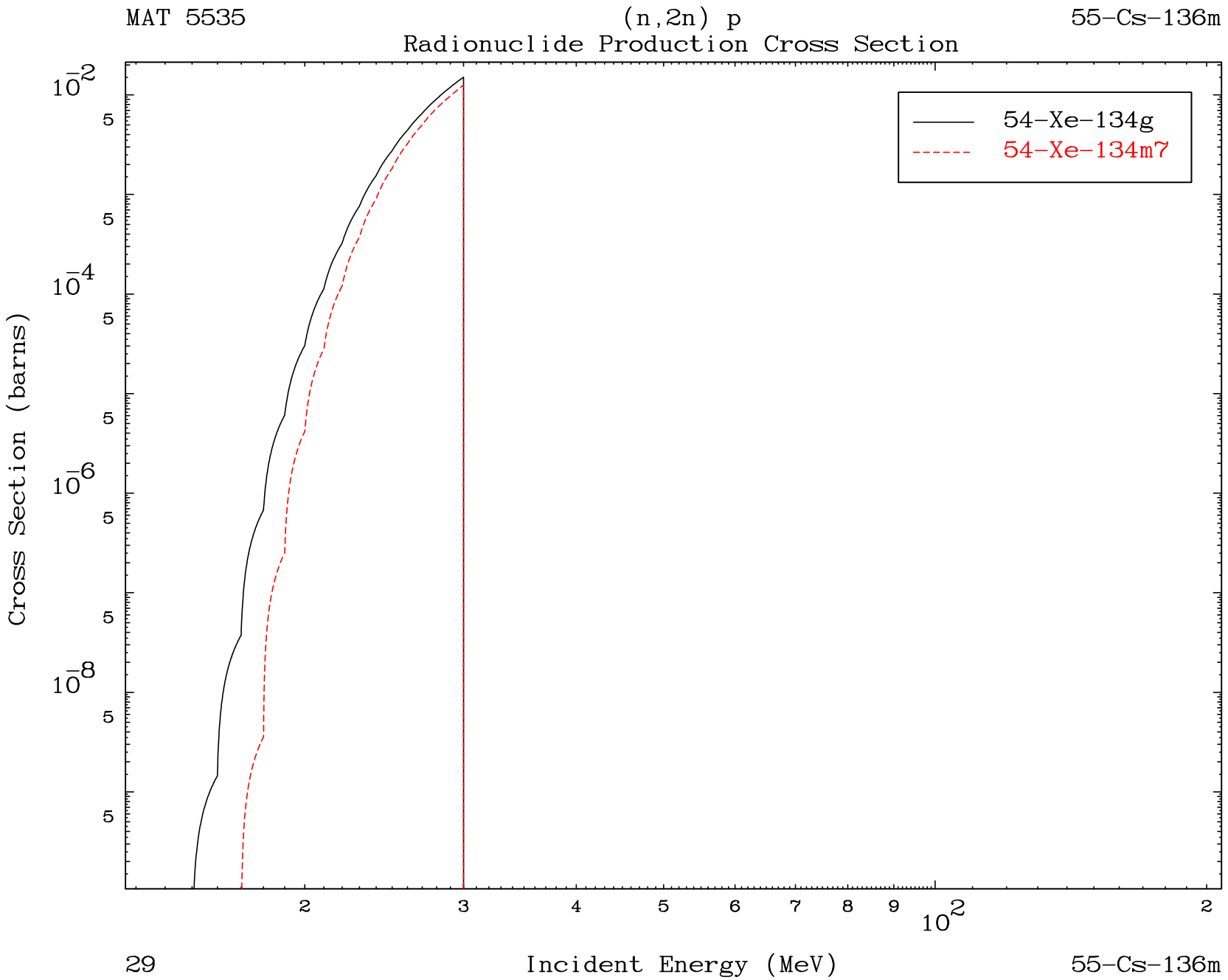

MAT 5535
(n,3n) α
55-Cs-136m
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
53-I -130g
53-I -130m1
24
Incident Energy (MeV)
55-Cs-136m

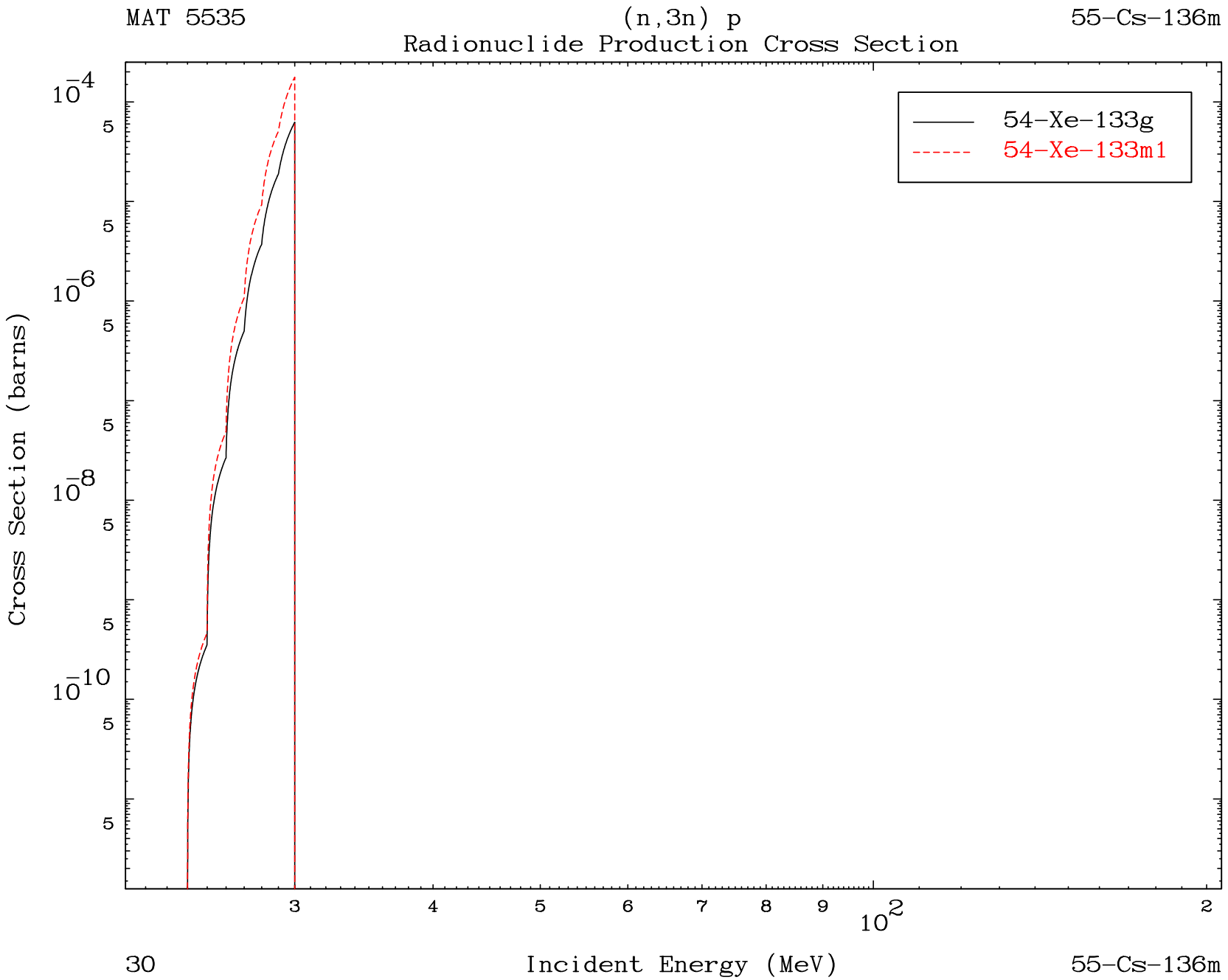

MAT 5535
(n,n') p
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-135g
54-Xe-135m2
Cross Section (barns)
Incident Energy (MeV)
25
55-Cs-136m

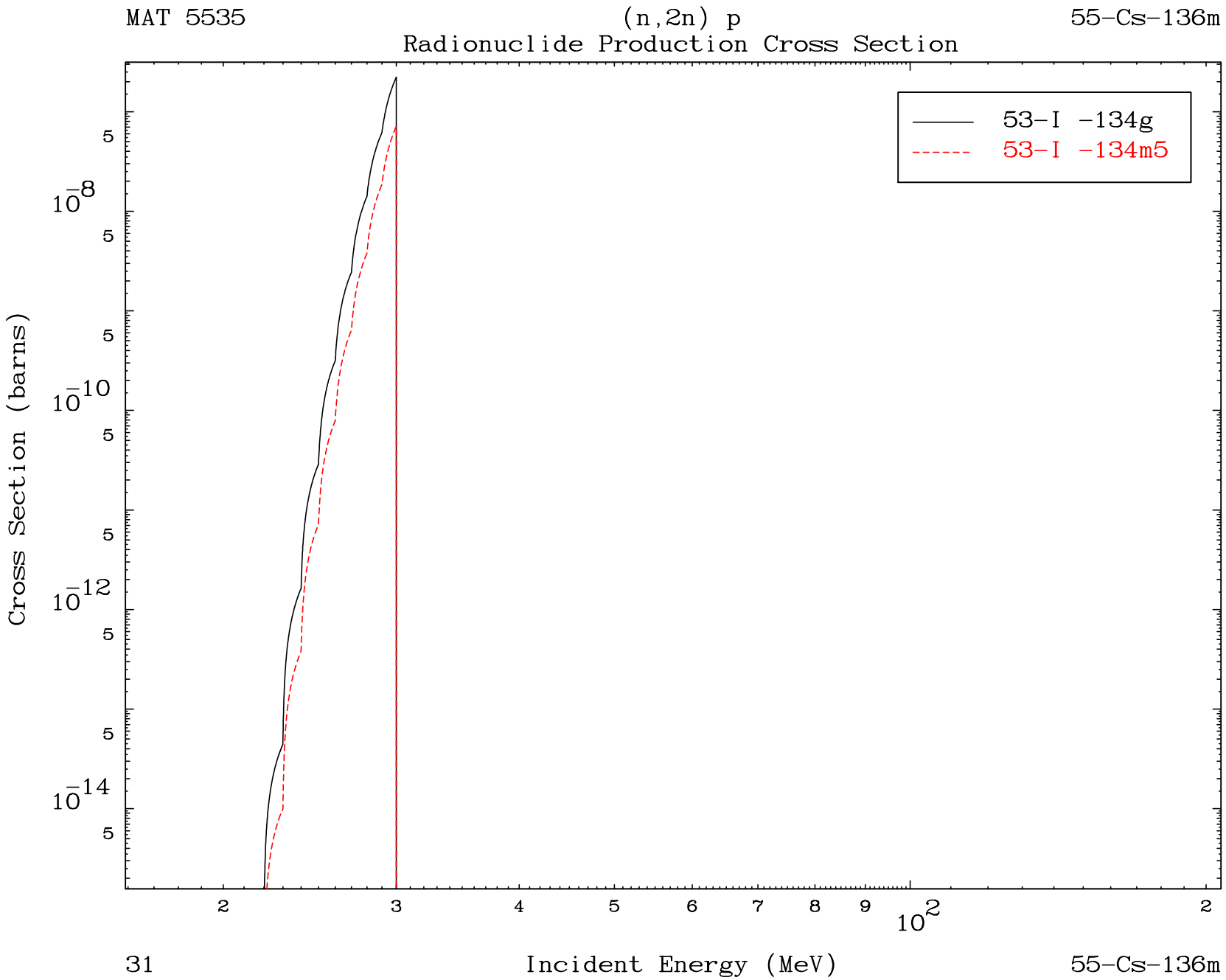

MAT 5535
(n,n') d
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
6
7
8
9
10^2
26
Incident Energy (MeV)
55-Cs-136m

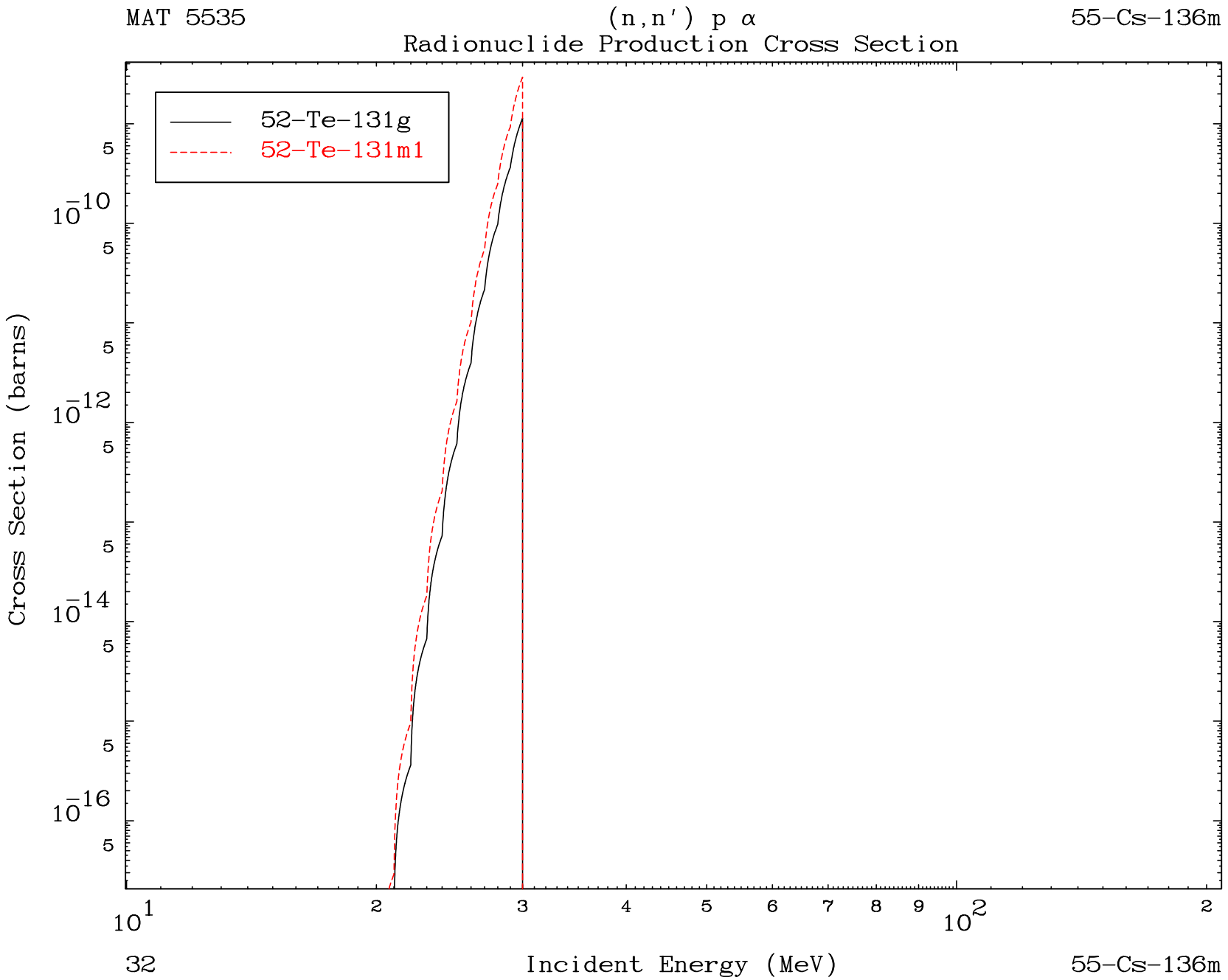

MAT 5535
(n,n') t
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
27
Incident Energy (MeV)
55-Cs-136m

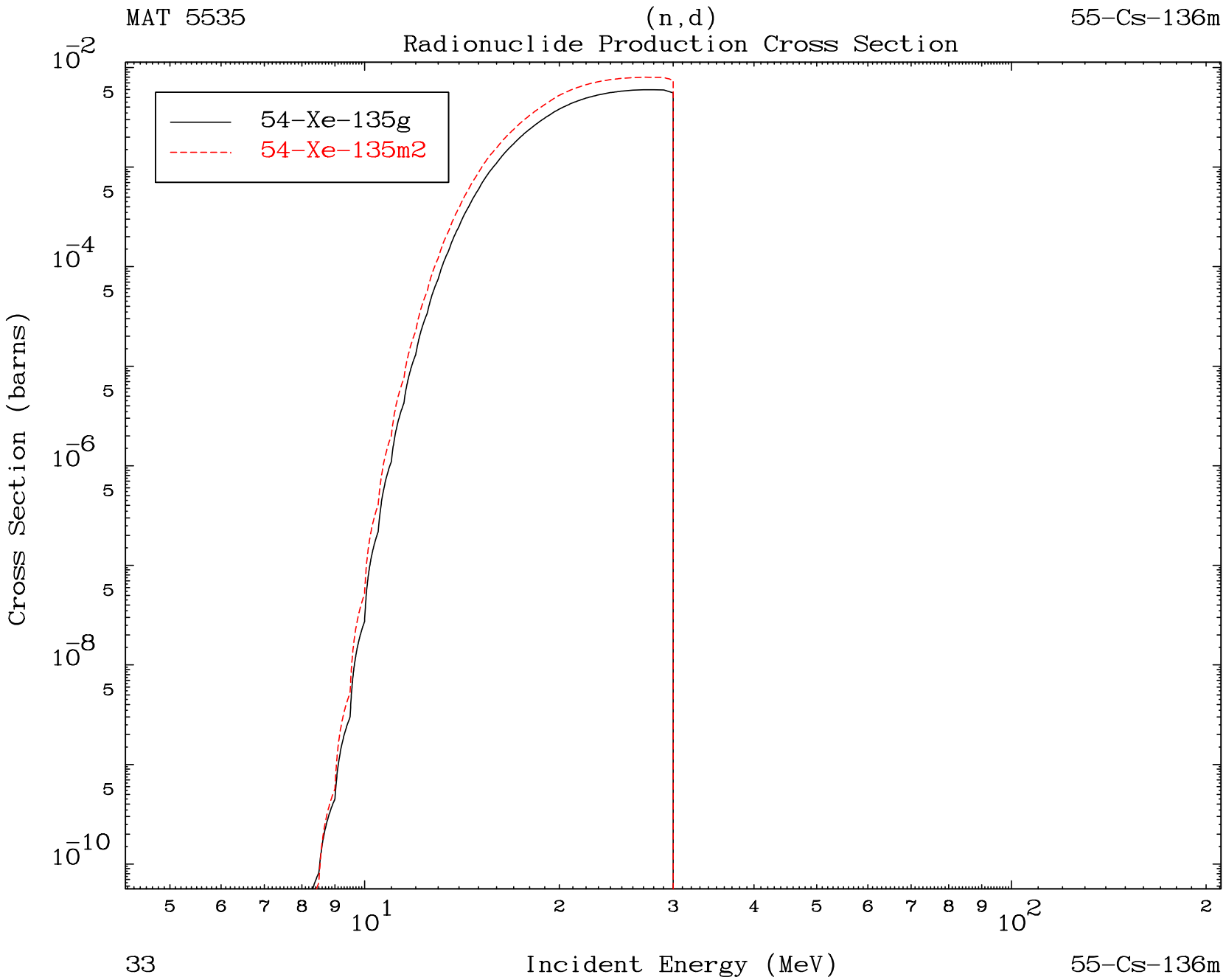

MAT 5535
(n,n') He-3
55-Cs-136m
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
28
Incident Energy (MeV)
55-Cs-136m

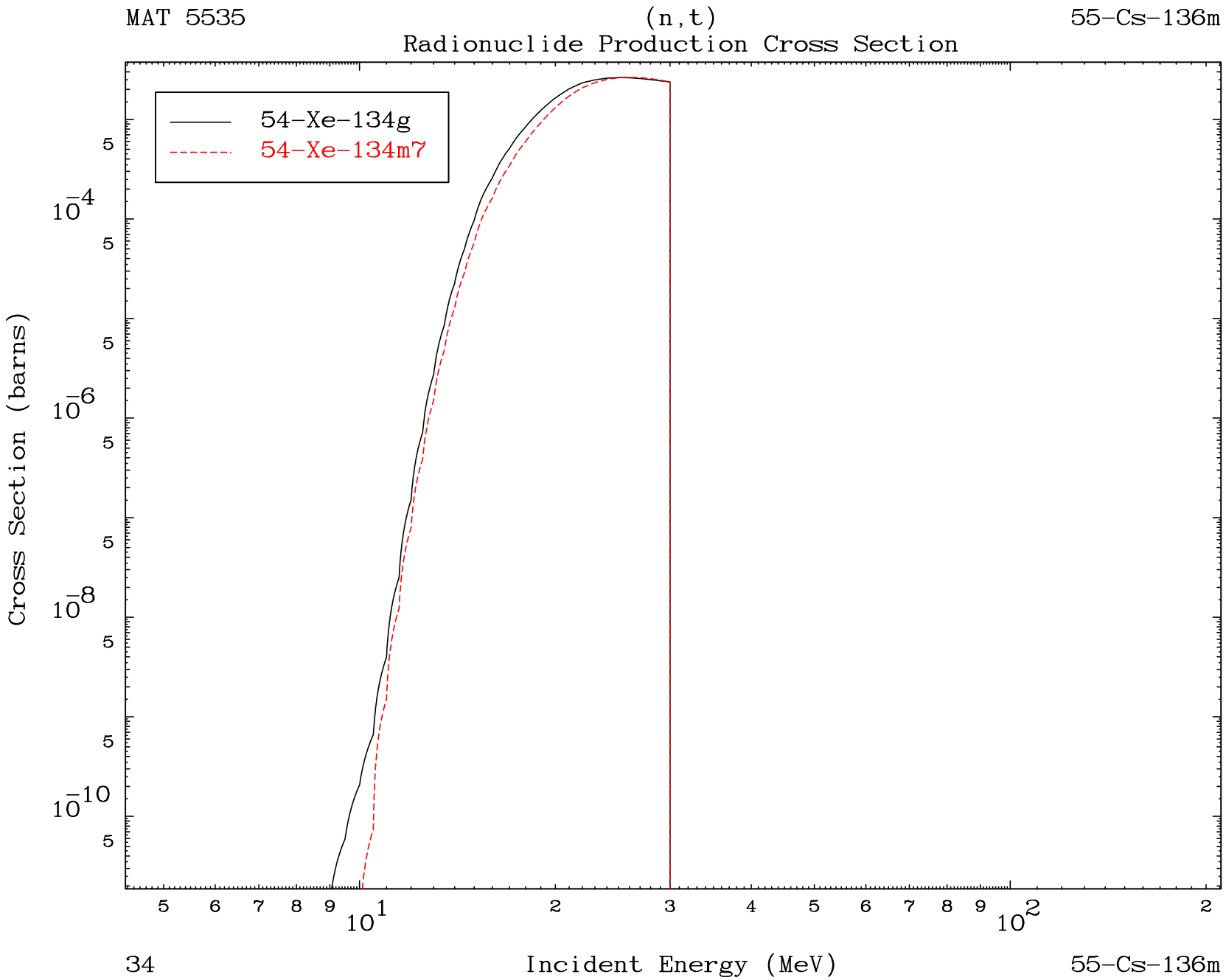

MAT 5535
(n,2n) p
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10 2
2
29
Incident Energy (MeV)
55-Cs-136m

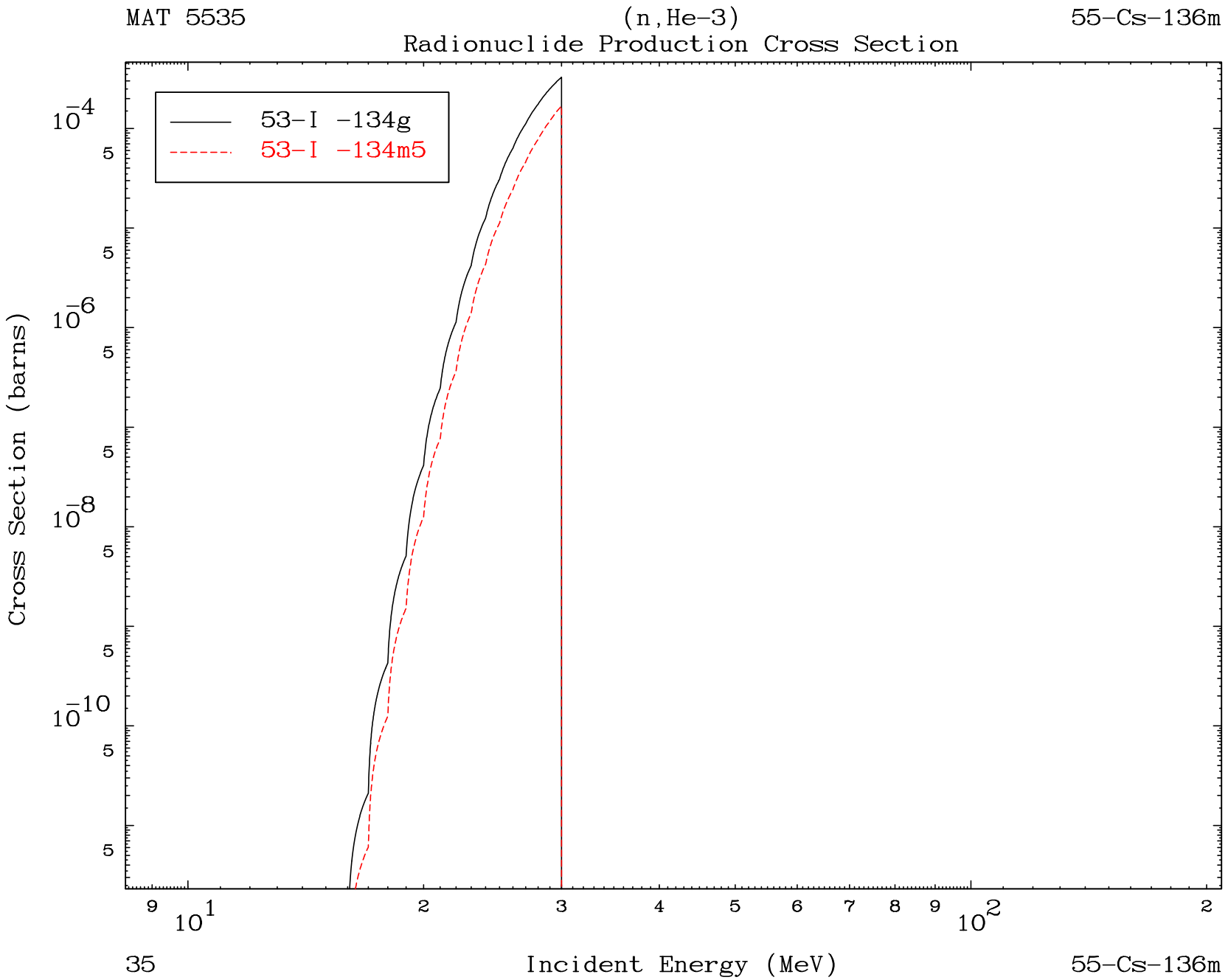

MAT 5535
(n,3n) p
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-133g
54-Xe-133m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
3
4
5
6
7
8
9
10^2
2
30
Incident Energy (MeV)
55-Cs-136m

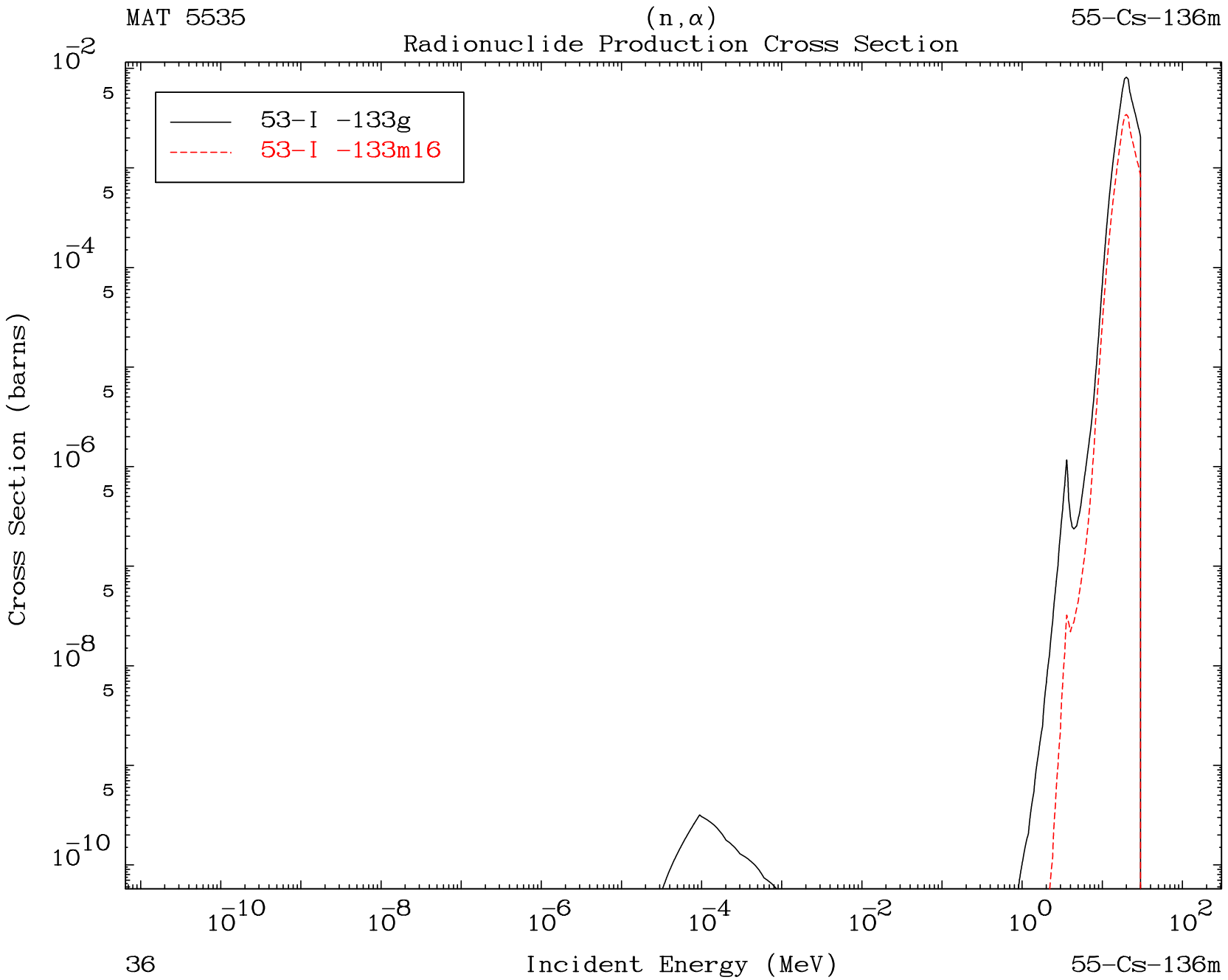

MAT 5535
(n,2n) p
55-Cs-136m
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
31
Incident Energy (MeV)
55-Cs-136m

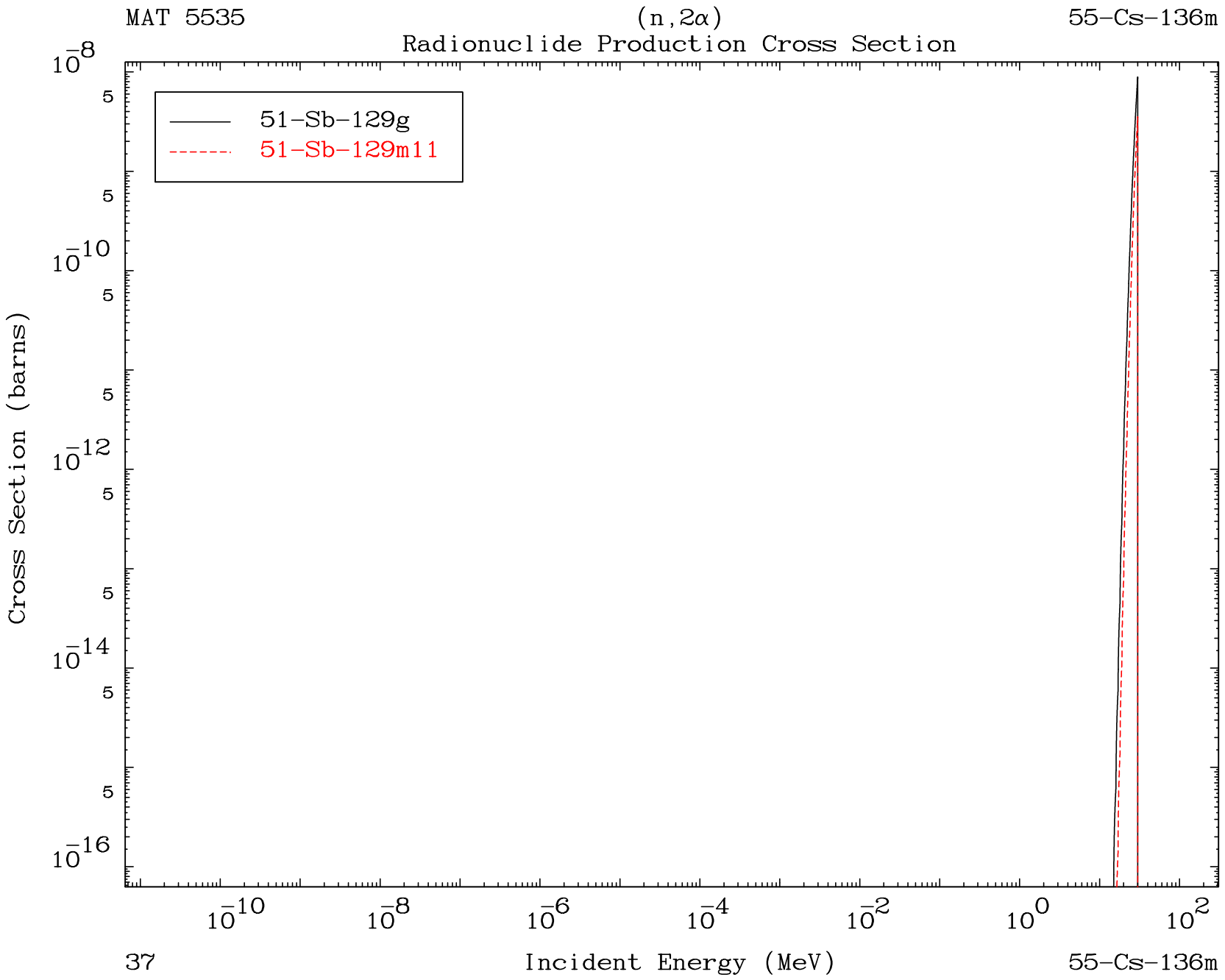

MAT 5535
(n,n') p α
55-Cs-136m
Radionuclide Production Cross Section
52-Te-131g
52-Te-131m1
Cross Section (barns)
10-10
10-12
10-14
10-16
5
101
2
3
4
5
6
7
8
9
102
2
32
Incident Energy (MeV)
55-Cs-136m

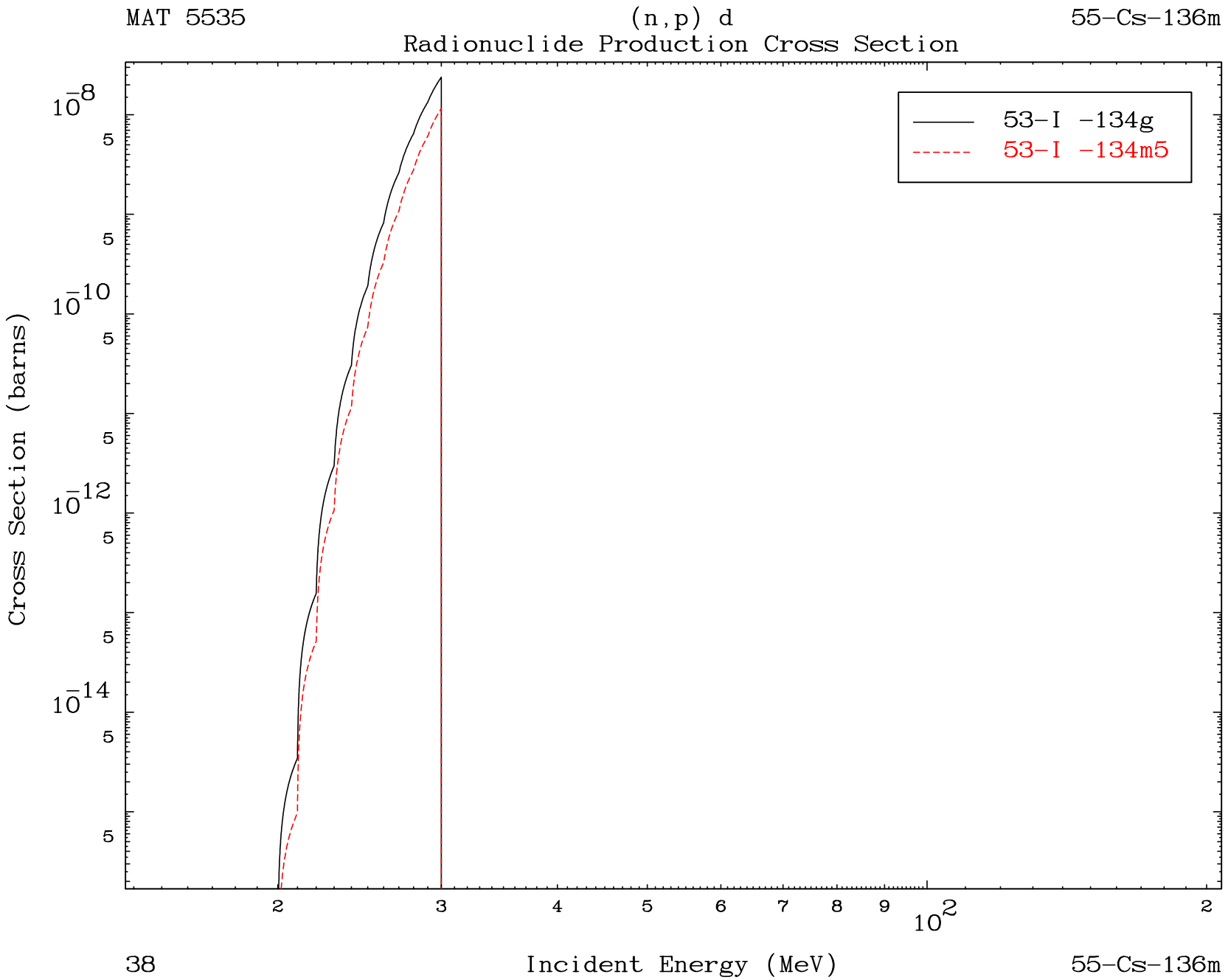

MAT 5535
(n,d)
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-135g
54-Xe-135m2
Cross Section (barns)
Incident Energy (MeV)
33
55-Cs-136m

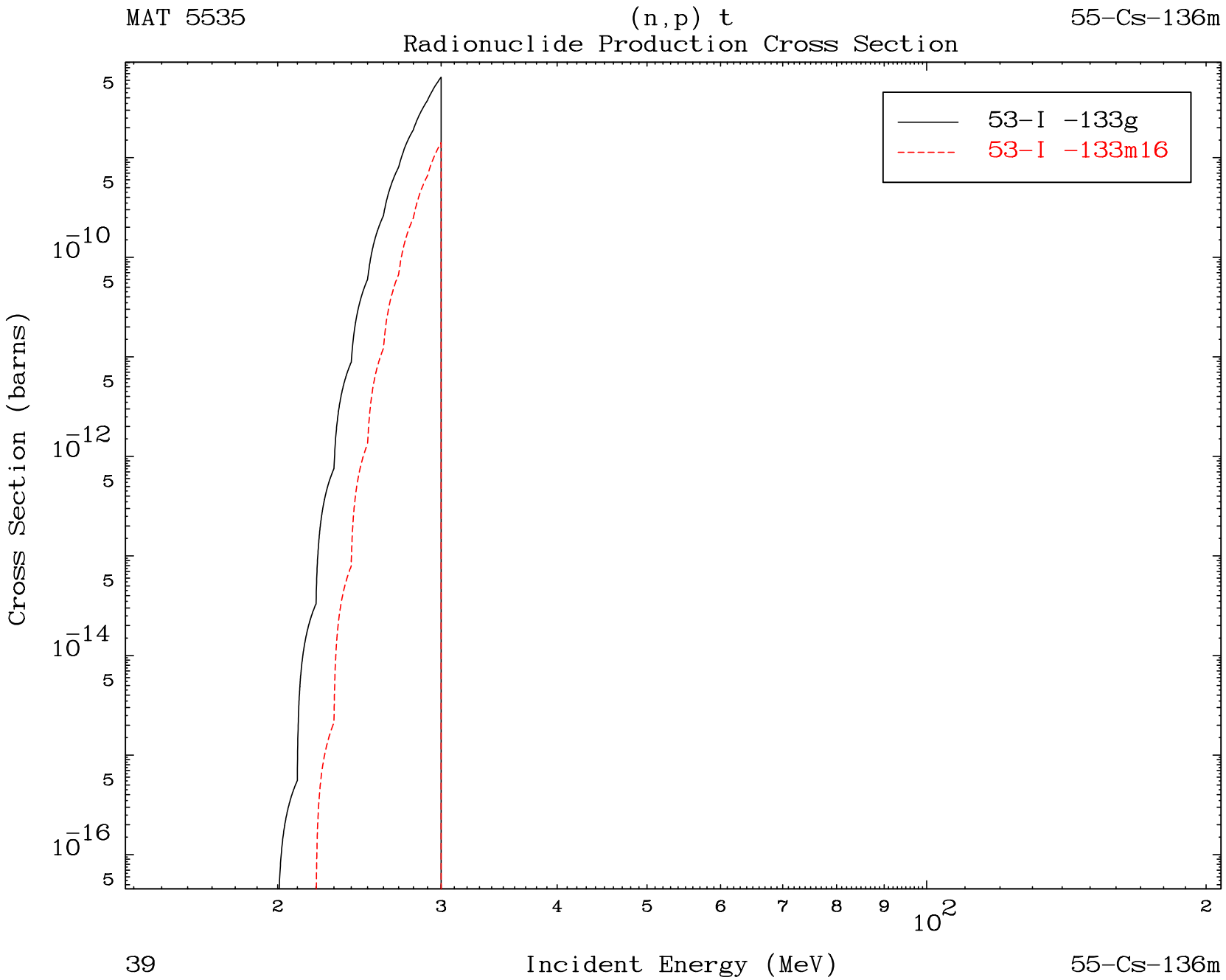

MAT 5535
(n,t)
55-Cs-136m
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6
7
8
9
10^1
2
3
4
5
6
7
8
9
10^2
2
34
Incident Energy (MeV)
55-Cs-136m

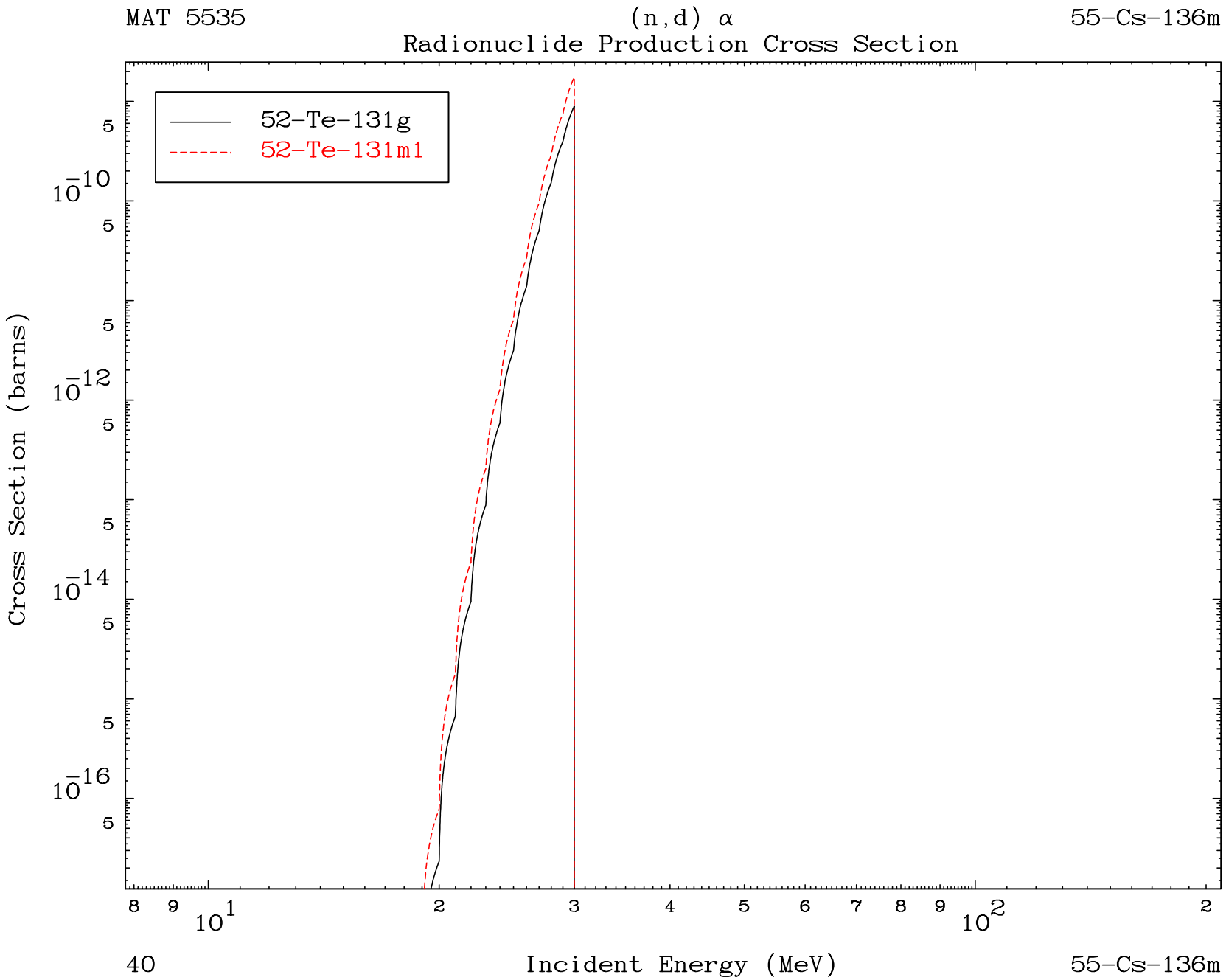

MAT 5535
(n,He-3)
55-Cs-136m
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
10-4
10-6
10-8
10-10
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
35
Incident Energy (MeV)
55-Cs-136m


MAT 5535
(n,α)
55-Cs-136m
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
Incident Energy (MeV)
36
55-Cs-136m


MAT 5535
(n,2α)
55-Cs-136m
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
Incident Energy (MeV)
37
55-Cs-136m


MAT 5535
(n,p) d
55-Cs-136m
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
38
Incident Energy (MeV)
55-Cs-136m


MAT 5535
(n,p) t
55-Cs-136m
Radionuclide Production Cross Section
53-I -133g
53-I -133m16
Cross Section (barns)
Incident Energy (MeV)
39
55-Cs-136m


MAT 5535
(n,d) α
55-Cs-136m
Radionuclide Production Cross Section
52-Te-131g
52-Te-131m1
Cross Section (barns)
Incident Energy (MeV)
40
55-Cs-136m