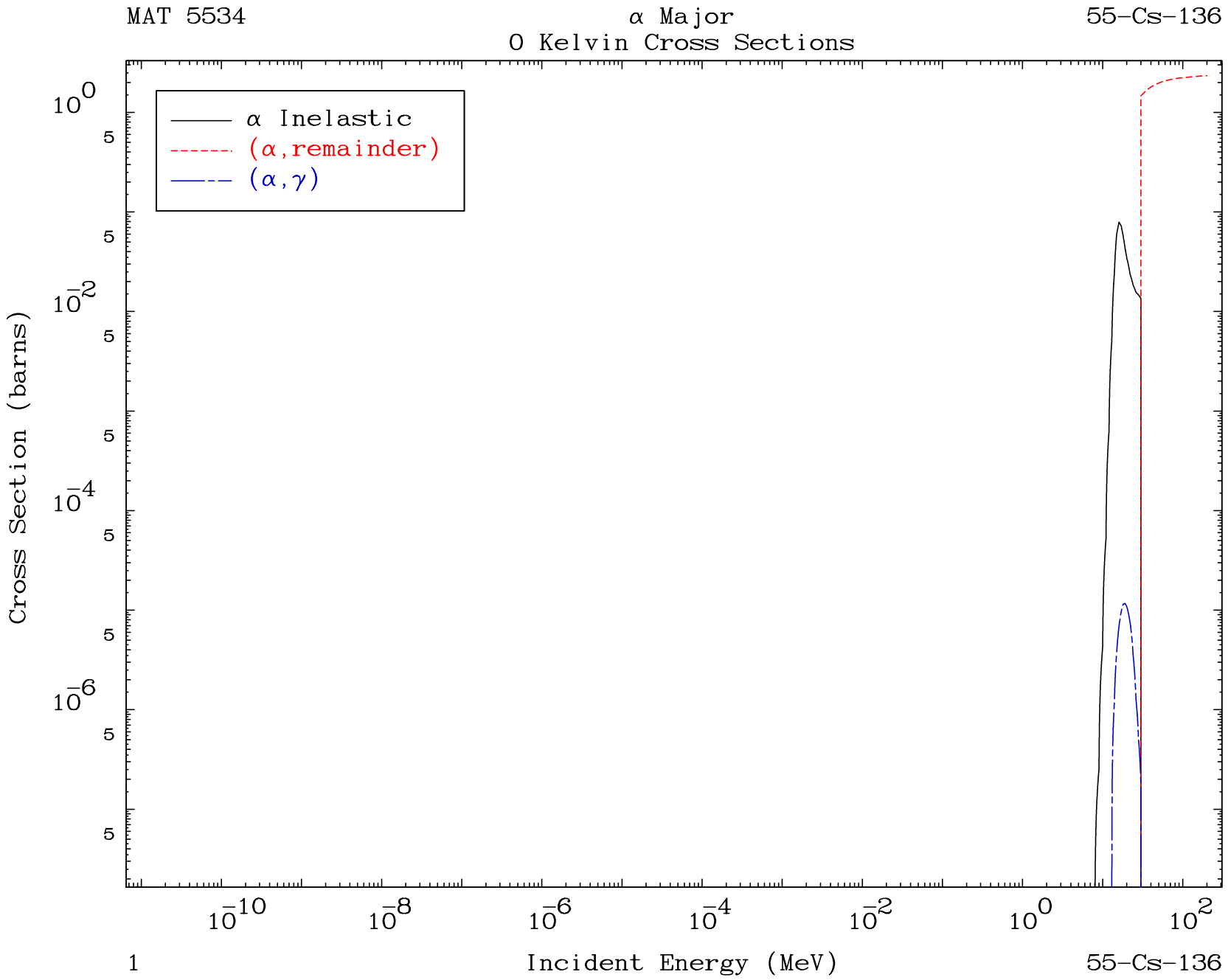
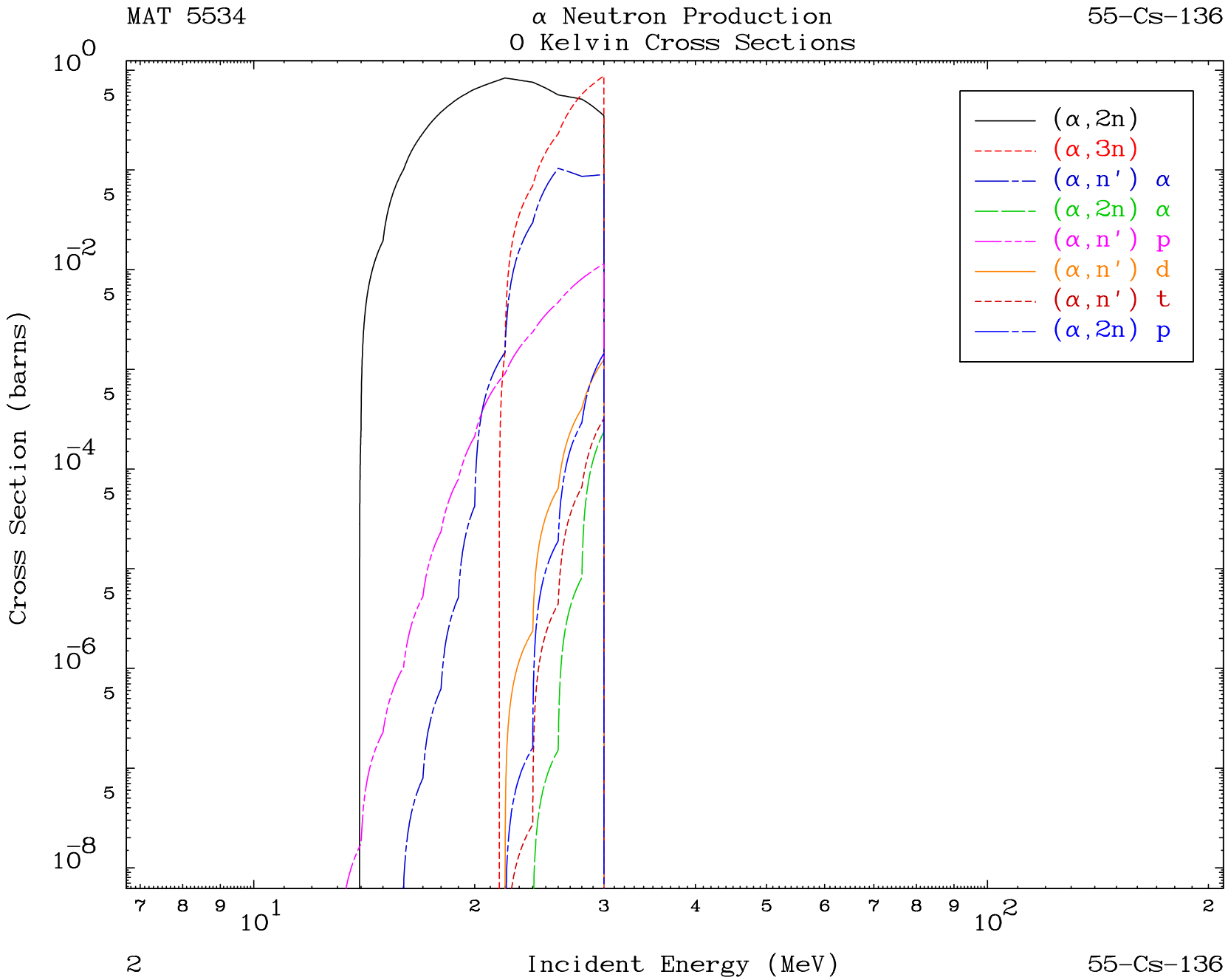
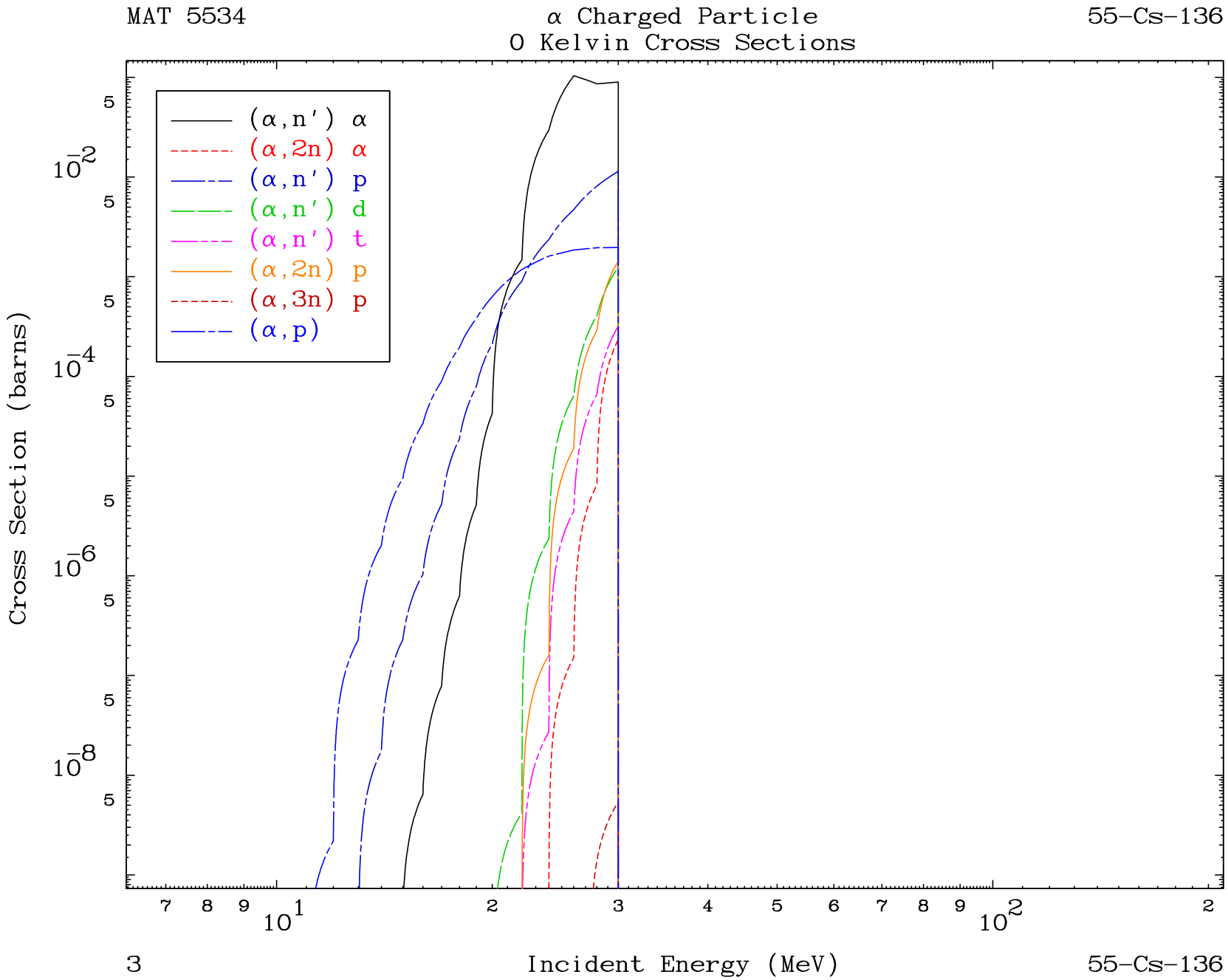
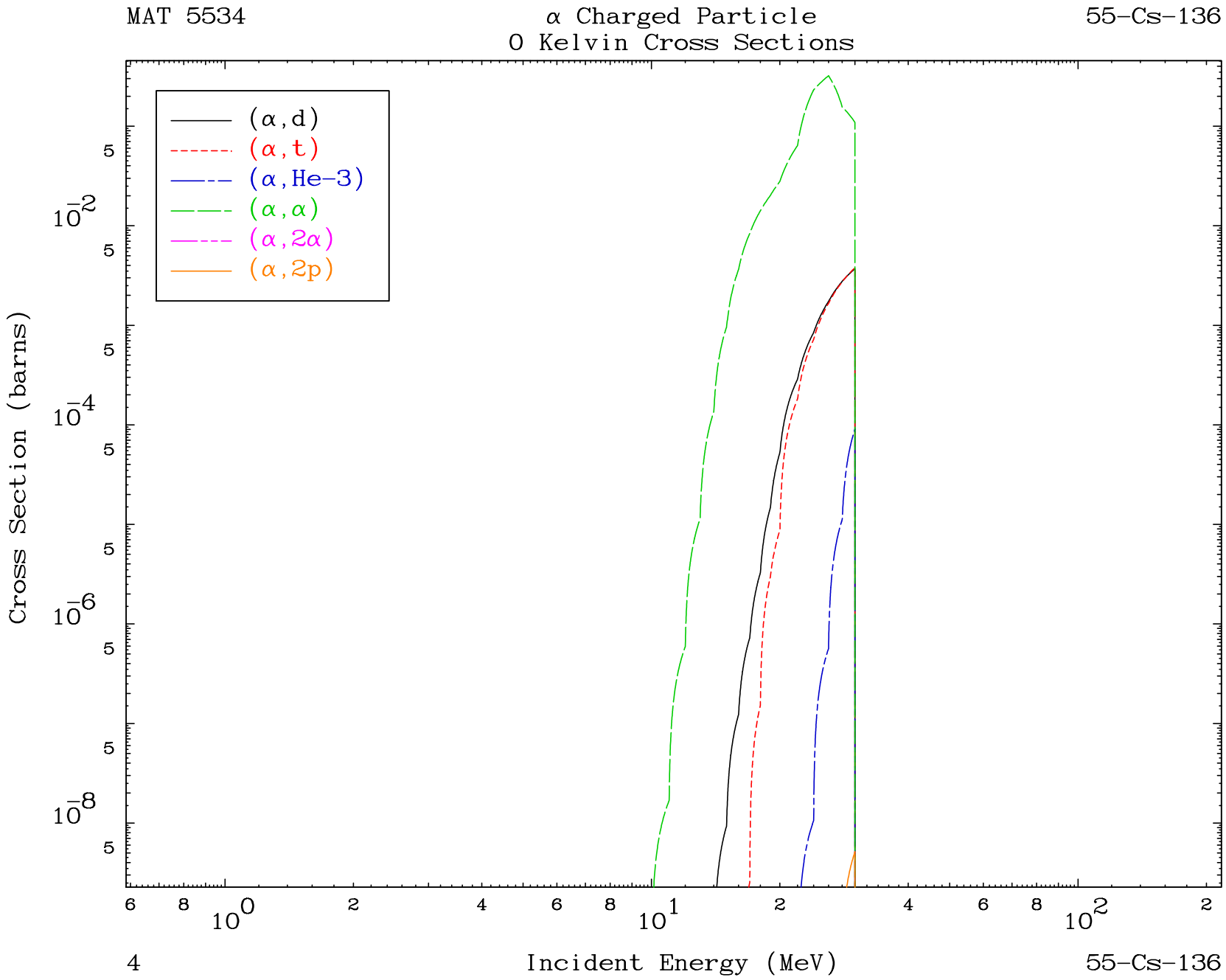
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

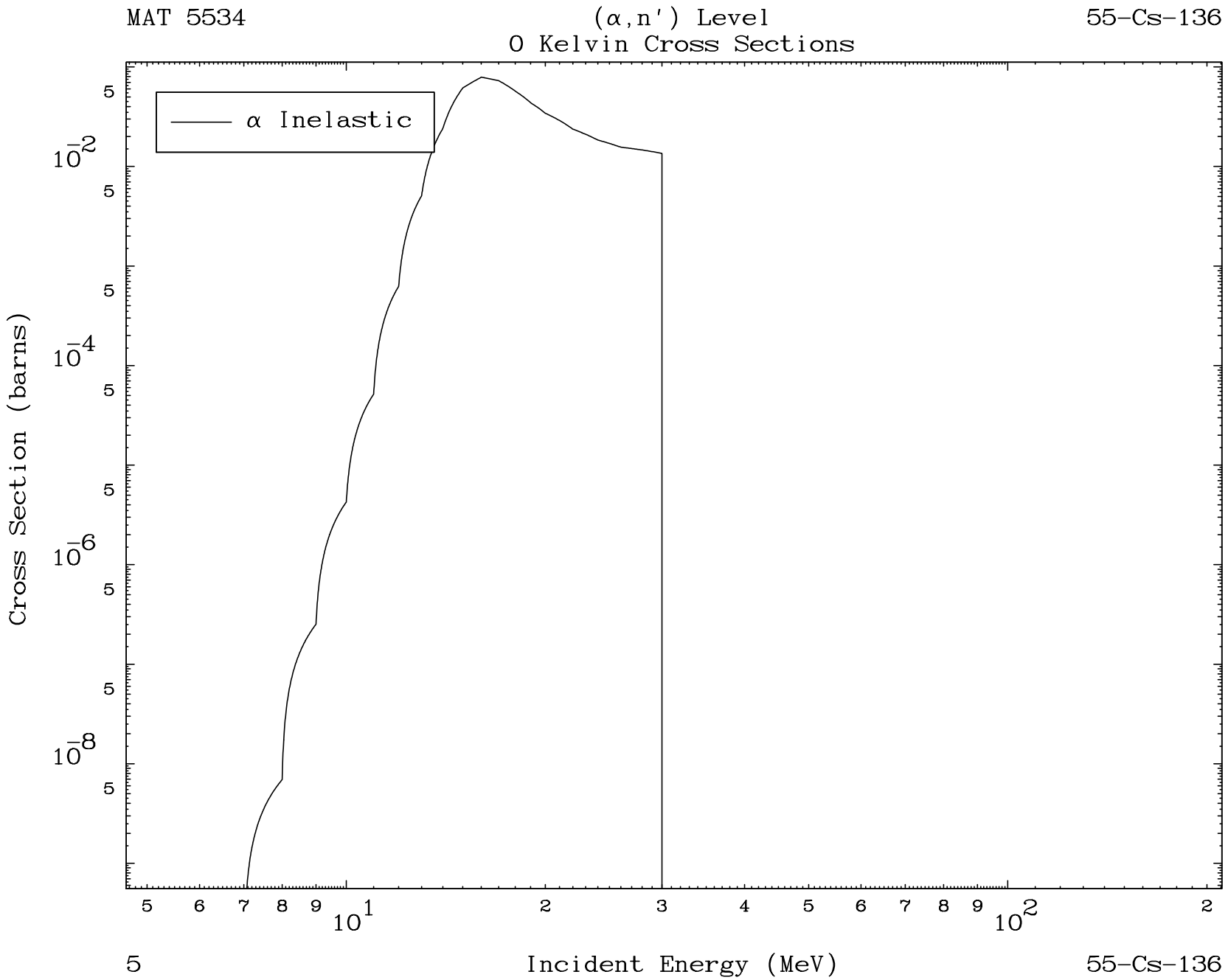
Press Mouse Button to Start

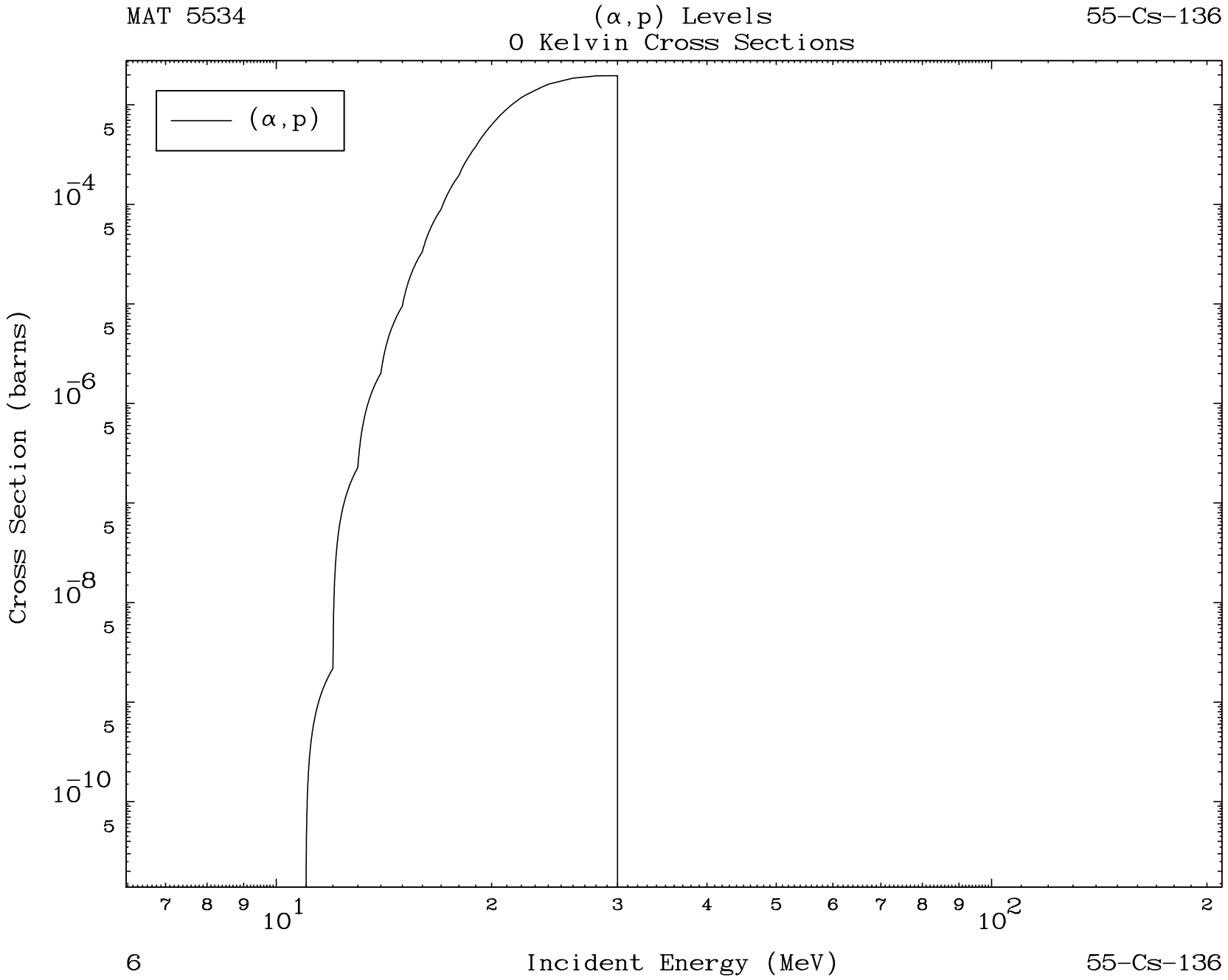

MAT 5534
α Major
55-Cs-136
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
55-Cs-136

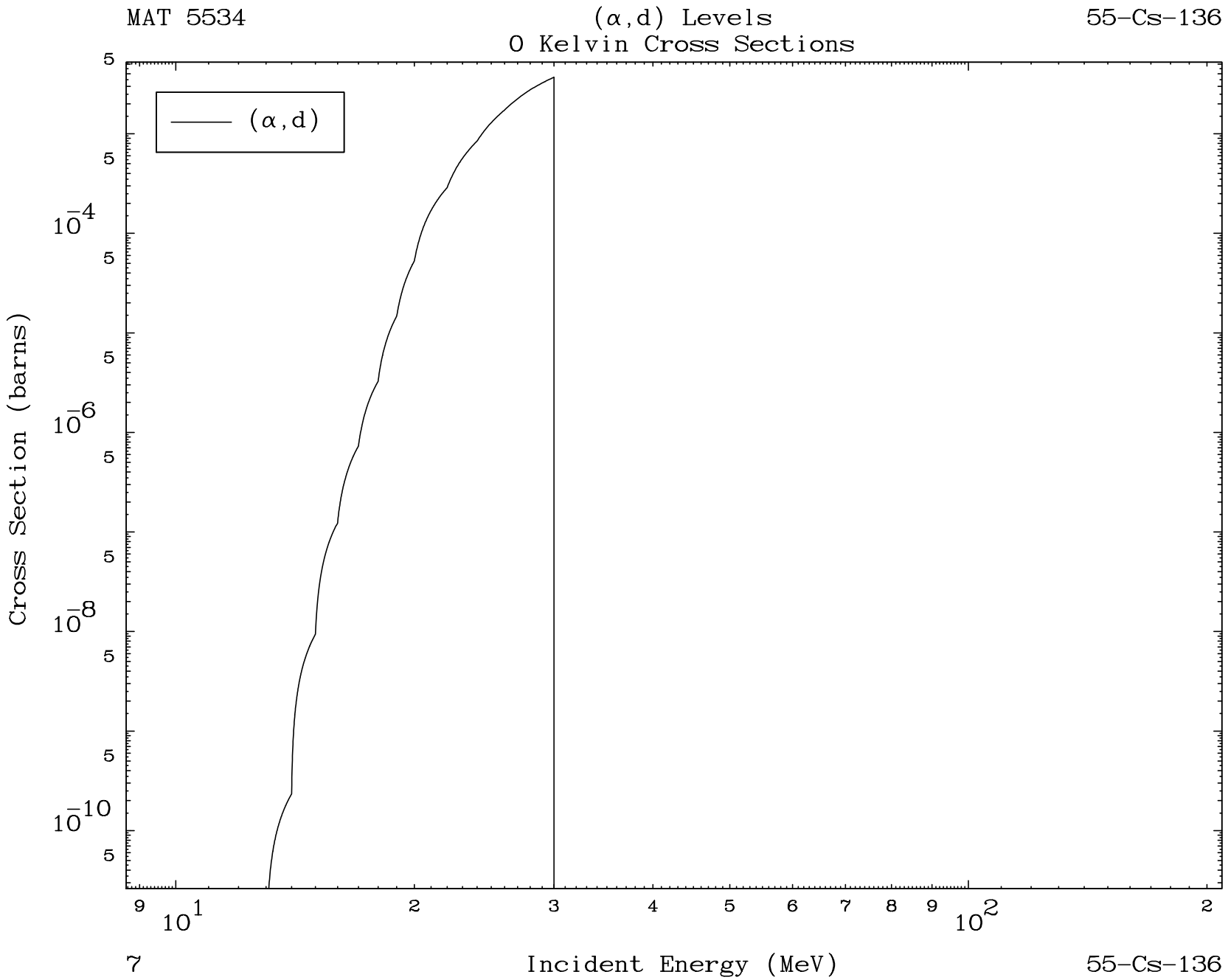

MAT 5534
α Neutron Production
0 Kelvin Cross Sections
55-Cs-136
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p

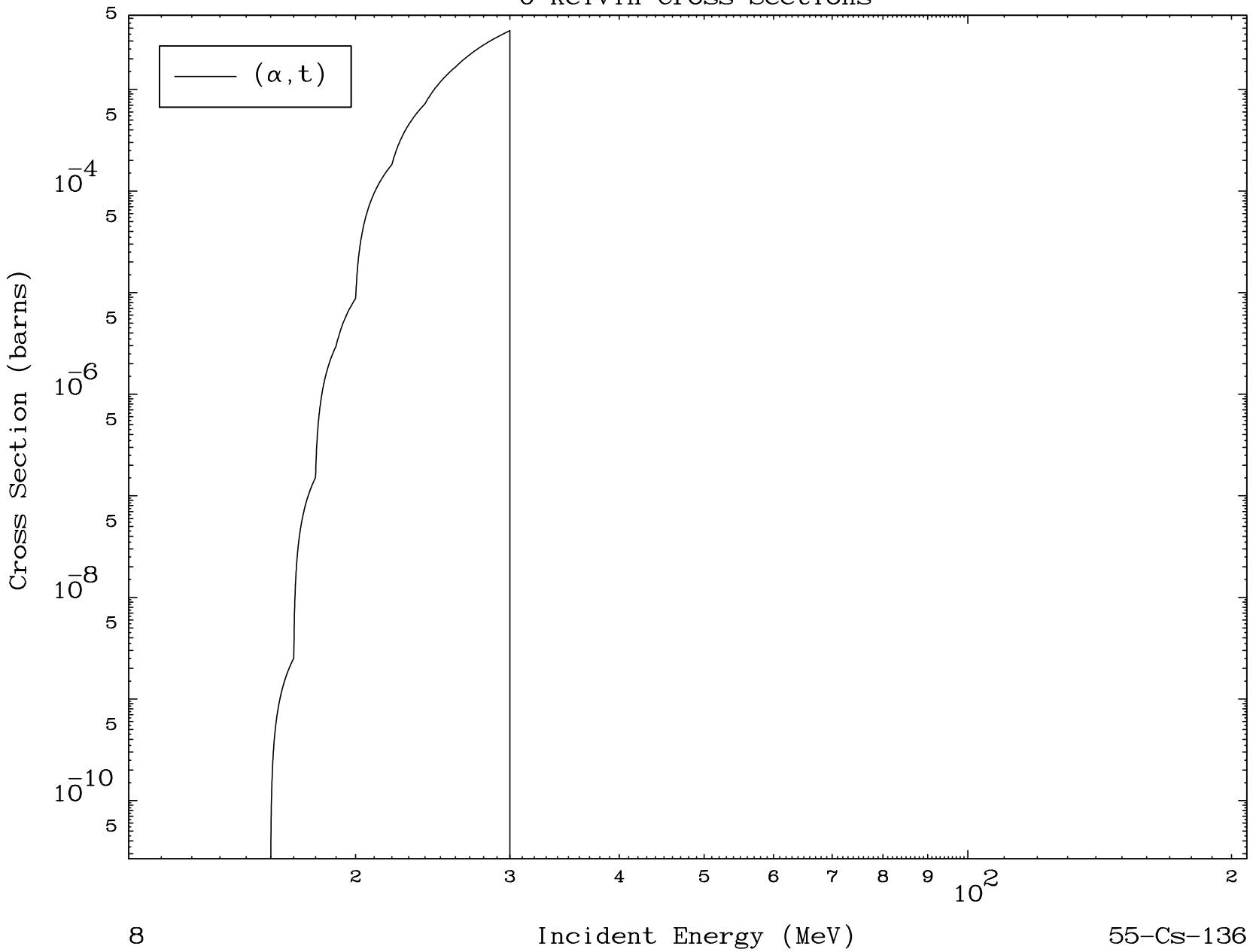

MAT 5534
α Charged Particle
0 Kelvin Cross Sections
55-Cs-136
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
(α,3n) p
(α,p)
Cross Section (barns)
Incident Energy (MeV)
3
55-Cs-136

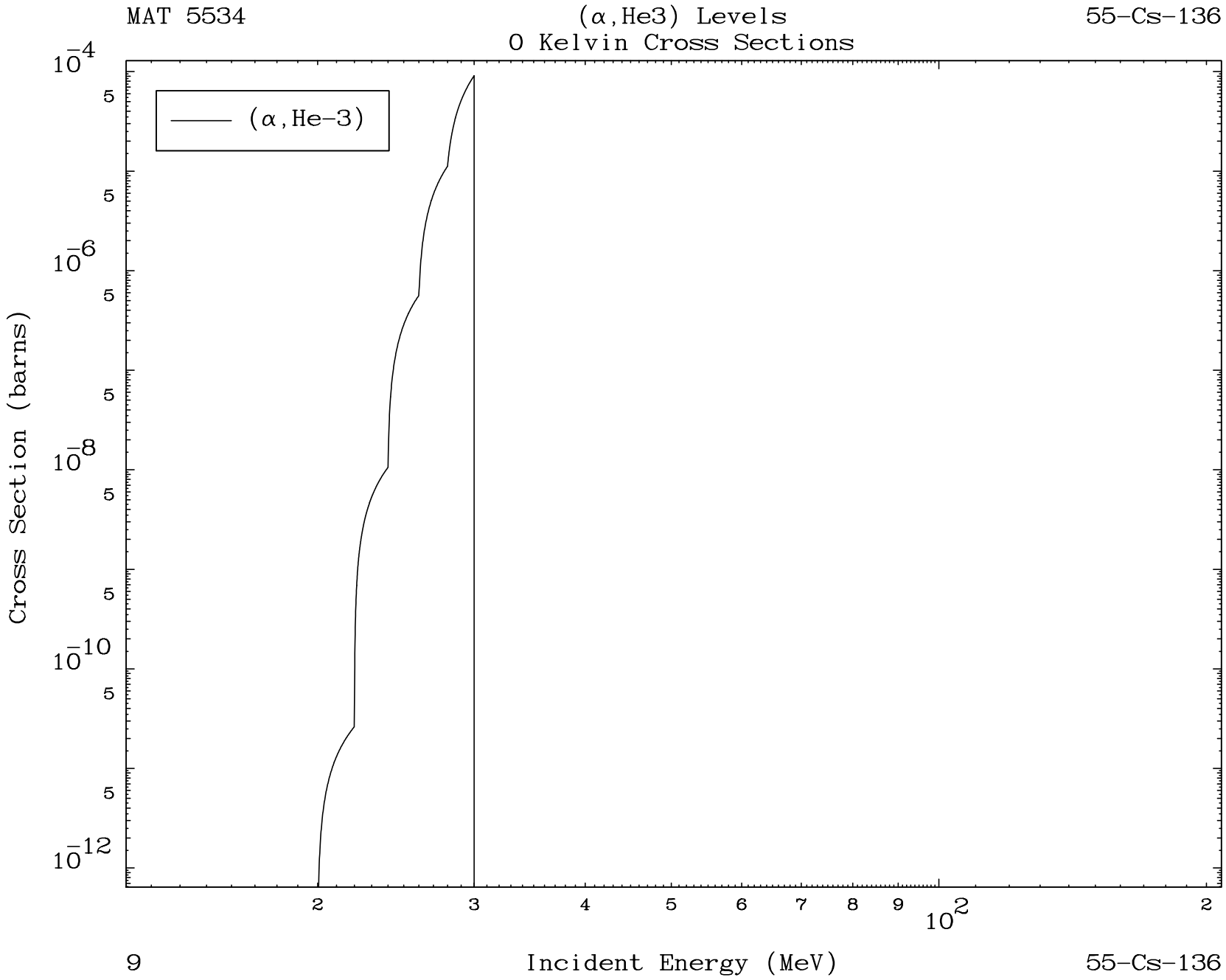

MAT 5534
α Charged Particle
0 Kelvin Cross Sections
55-Cs-136
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136
4

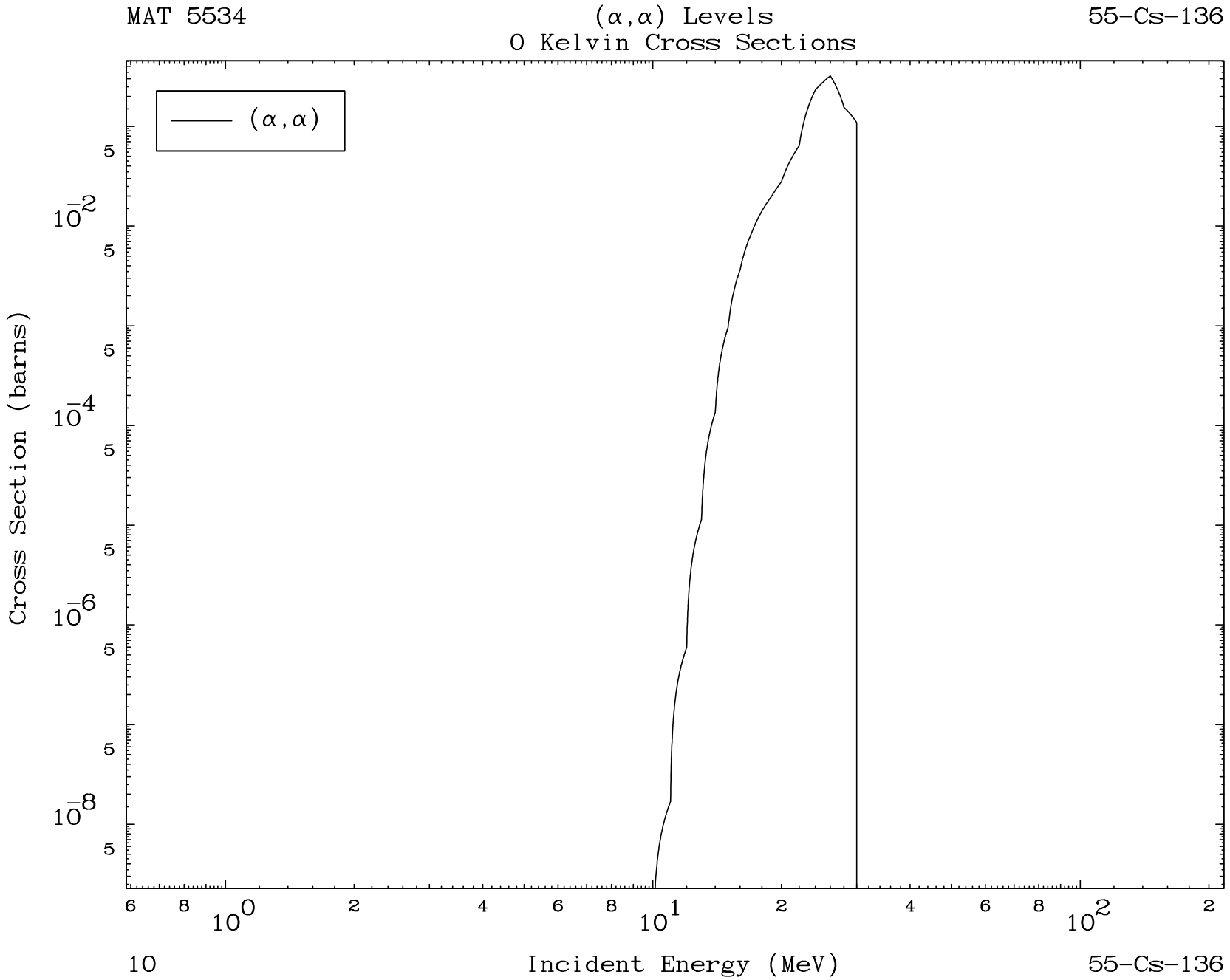

MAT 5534
(α,n') Level
55-Cs-136
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6
7
8
9
10 1
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
55-Cs-136

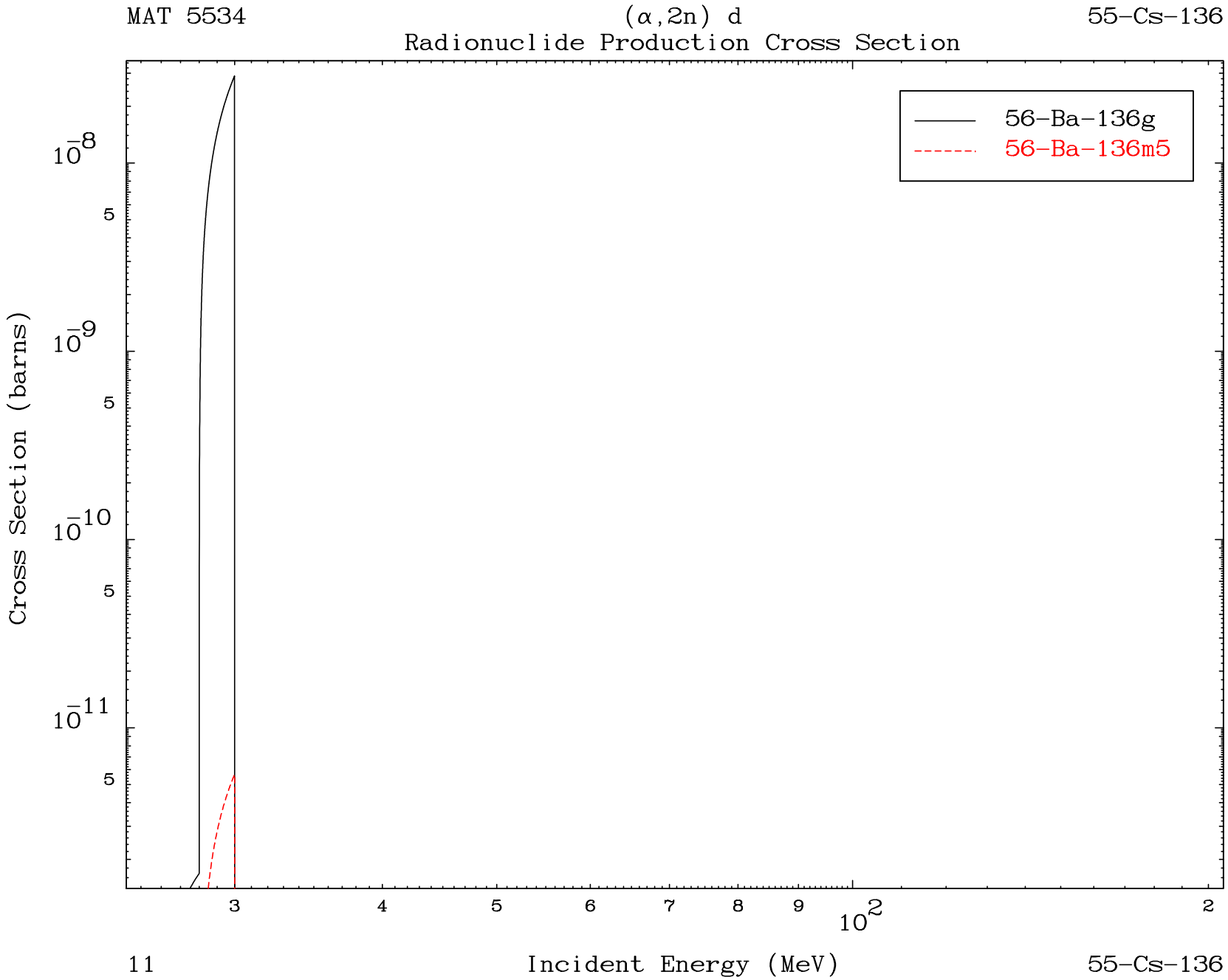

MAT 5534
(α,p) Levels
55-Cs-136
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
6
55-Cs-136

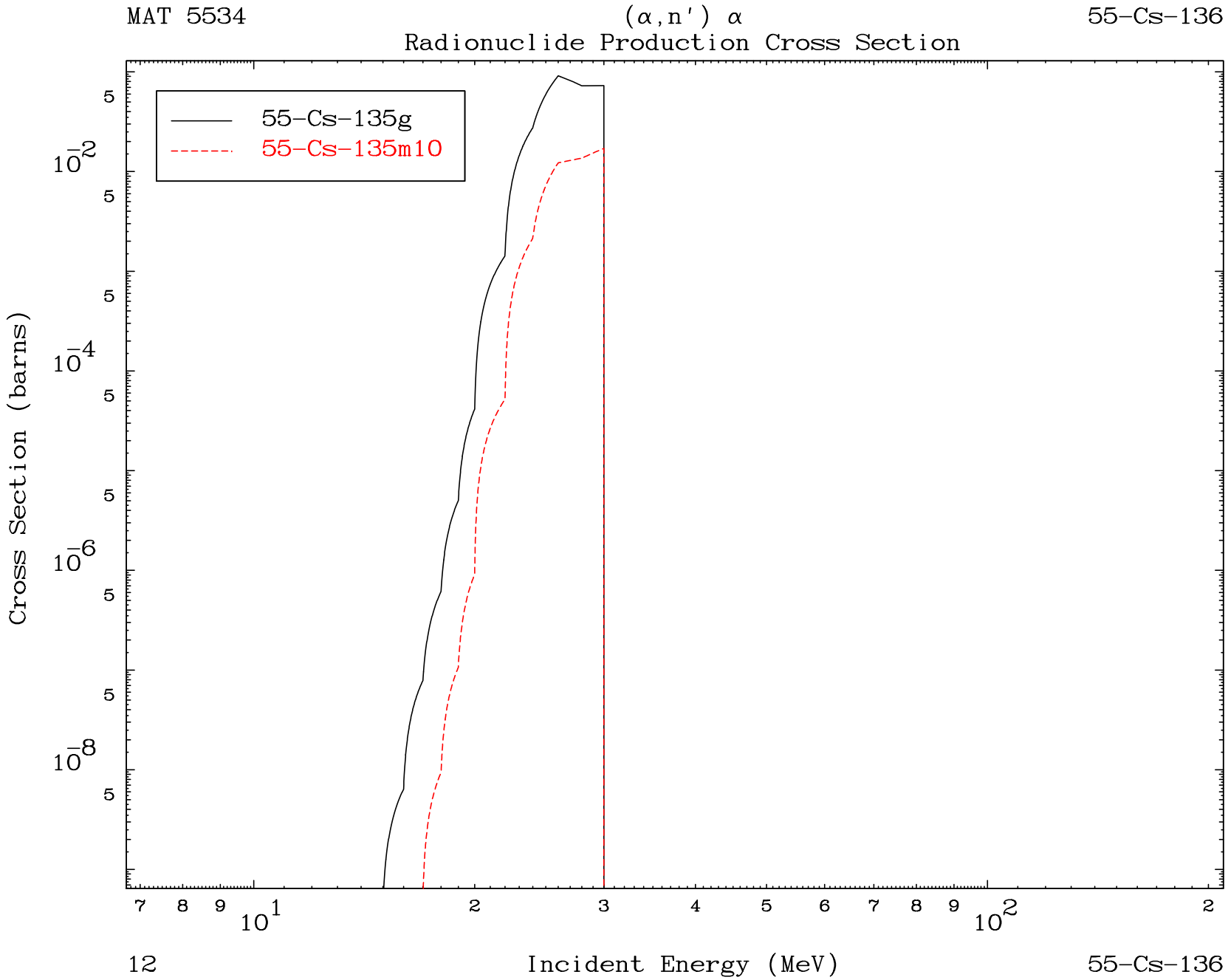

MAT 5534
(α,d) Levels
55-Cs-136
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-136
7

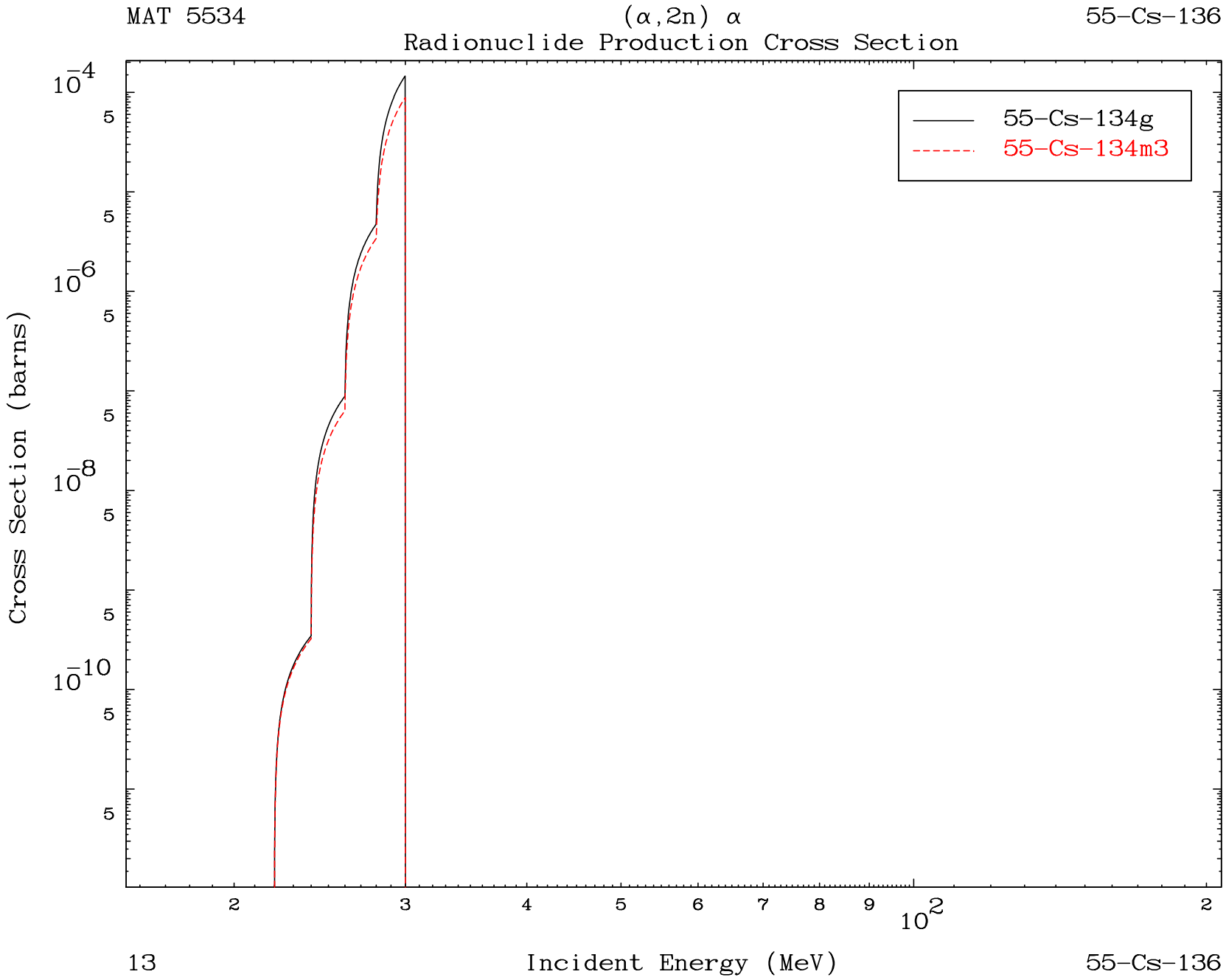

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

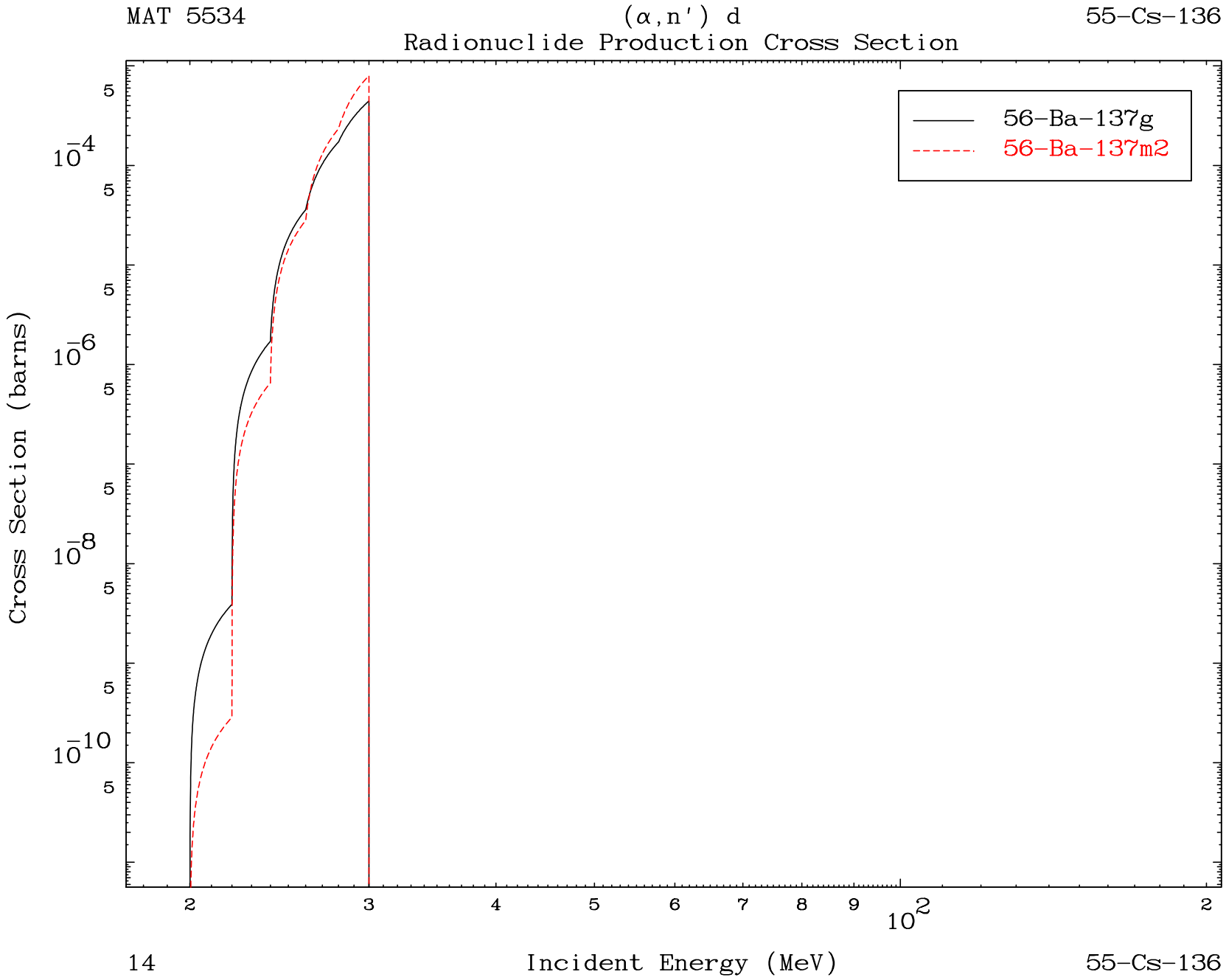

MAT 5534
(α,He3) Levels
55-Cs-136
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
Incident Energy (MeV)
9
55-Cs-136

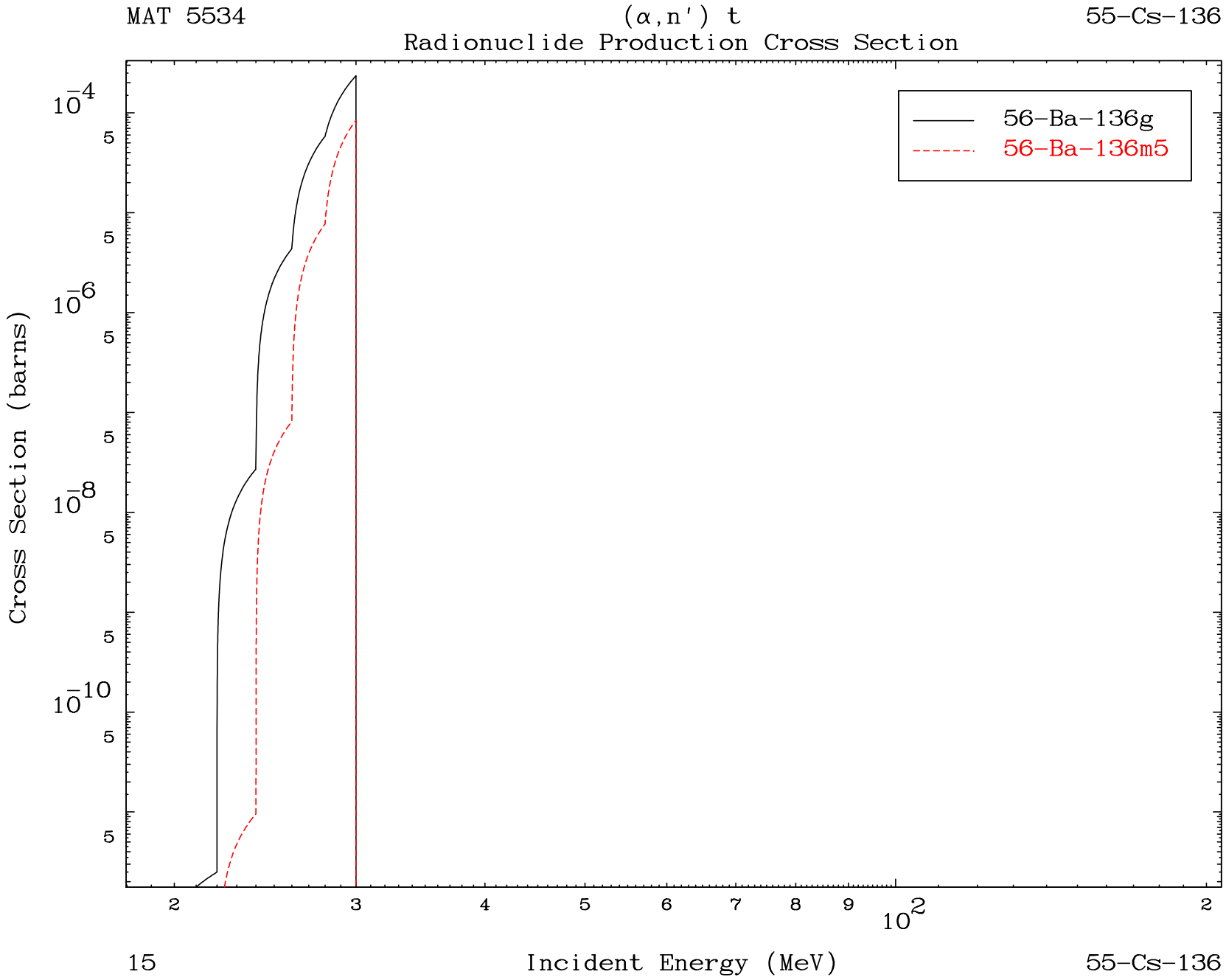

MAT 5534
(α,α) Levels
55-Cs-136
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10⁻²
10⁻⁴
10⁻⁶
10⁻⁸
10⁰
10¹
10²
Incident Energy (MeV)
55-Cs-136

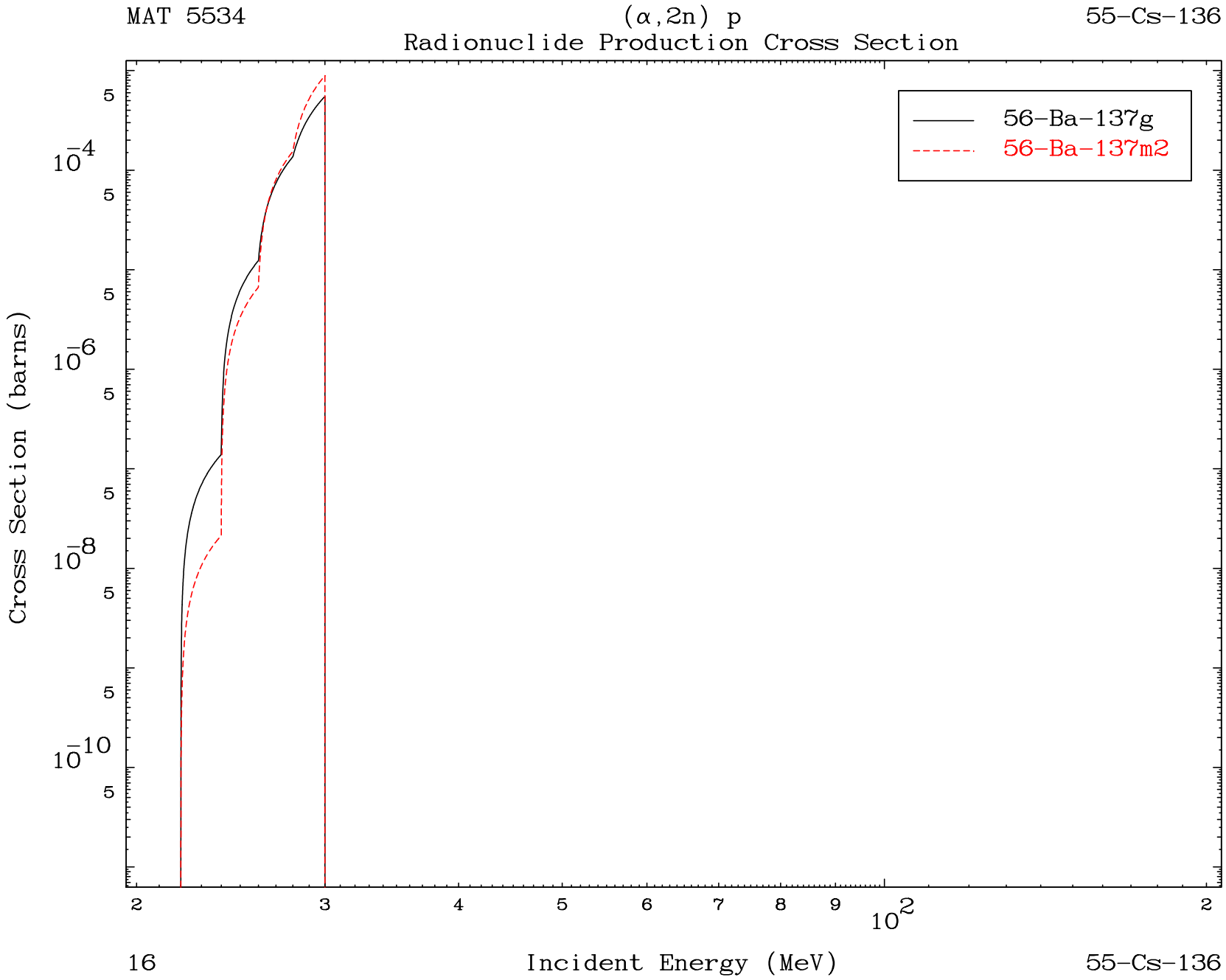

MAT 5534
(α,2n) d
55-Cs-136
Radionuclide Production Cross Section
56-Ba-136g
56-Ba-136m5
Cross Section (barns)
10-8
5
10-9
5
10-10
5
10-11
5
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
55-Cs-136

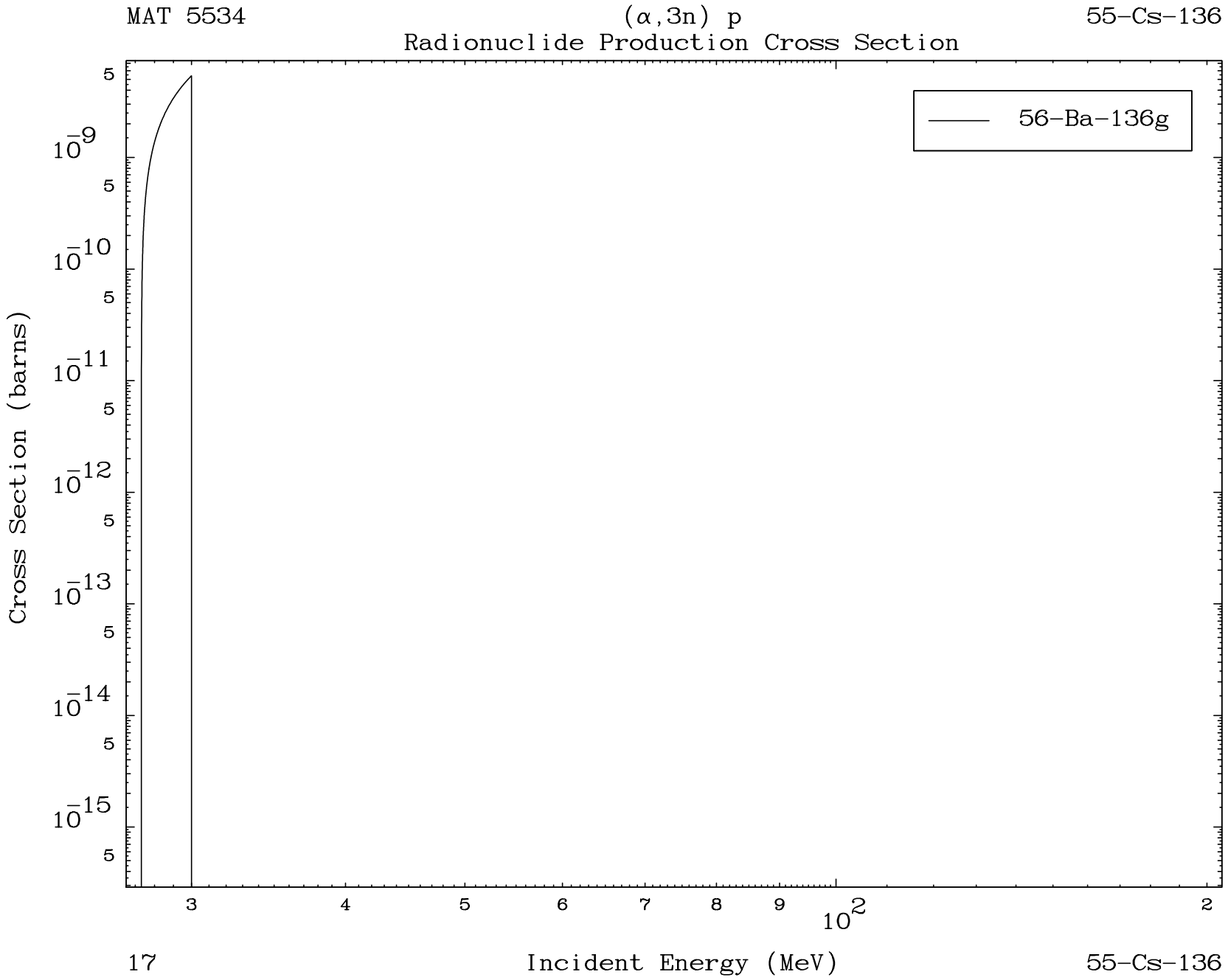

MAT 5534
(α,n') α
55-Cs-136
Radionuclide Production Cross Section
55-Cs-135g
55-Cs-135m10
Cross Section (barns)
Incident Energy (MeV)
12
55-Cs-136

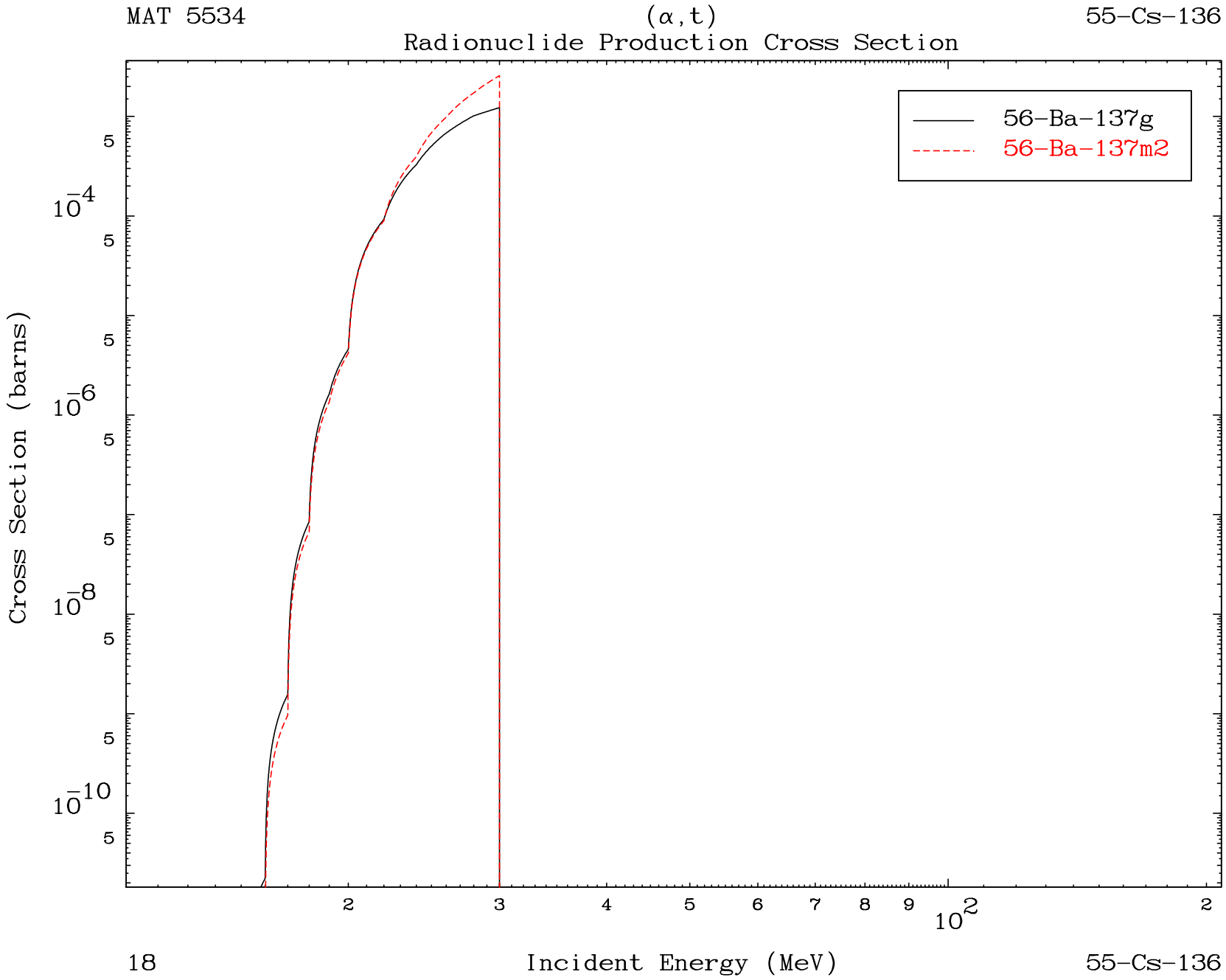

MAT 5534
(α,2n) α
55-Cs-136
Radionuclide Production Cross Section
55-Cs-134g
55-Cs-134m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
55-Cs-136

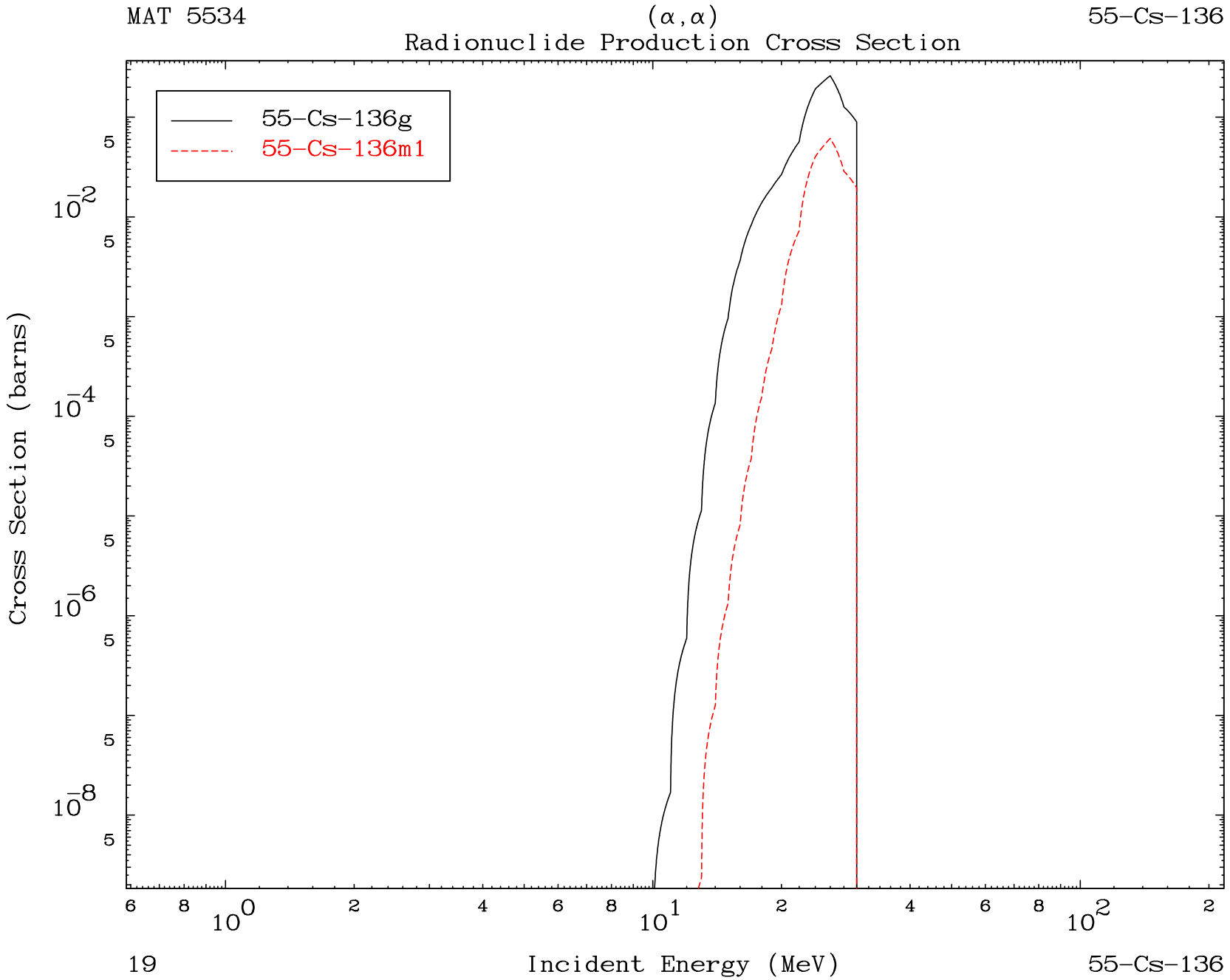

MAT 5534
(α,n') d
55-Cs-136
Radionuclide Production Cross Section
56-Ba-137g
56-Ba-137m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
14
55-Cs-136

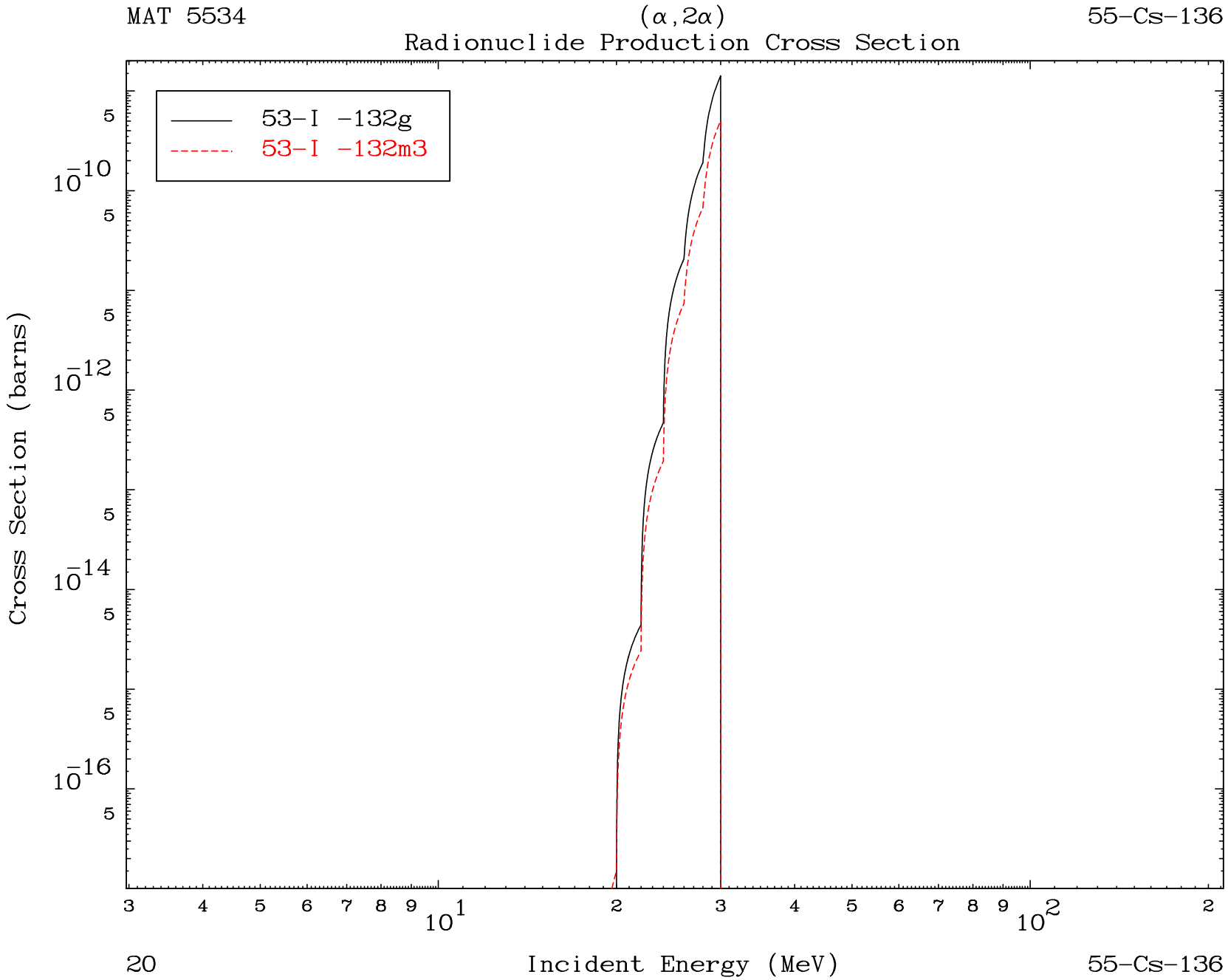

MAT 5534
(α,n') t
55-Cs-136
Radionuclide Production Cross Section
56-Ba-136g
56-Ba-136m5
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
15
55-Cs-136

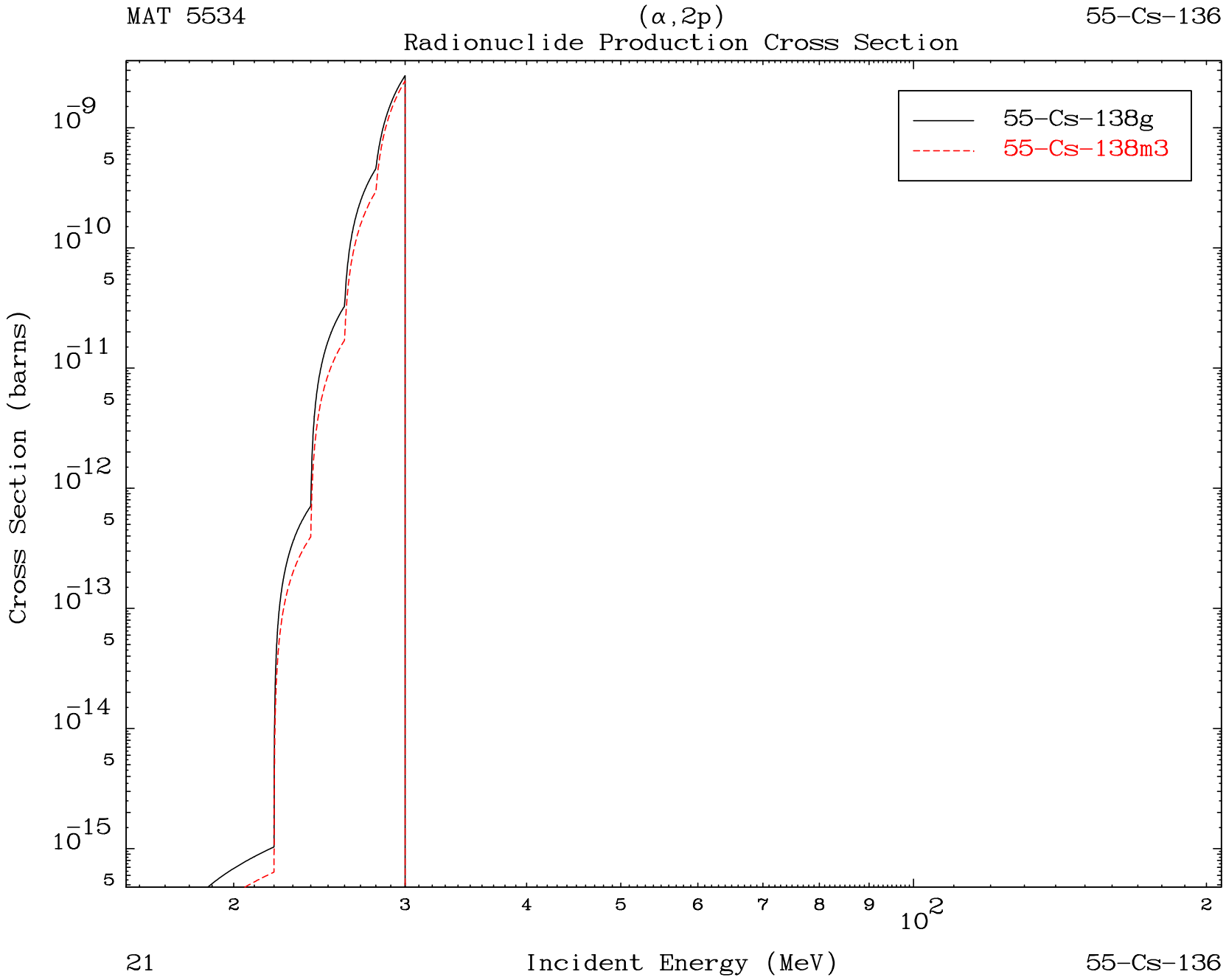

MAT 5534
(α,2n) p
55-Cs-136
Radionuclide Production Cross Section
56-Ba-137g
56-Ba-137m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
16
55-Cs-136

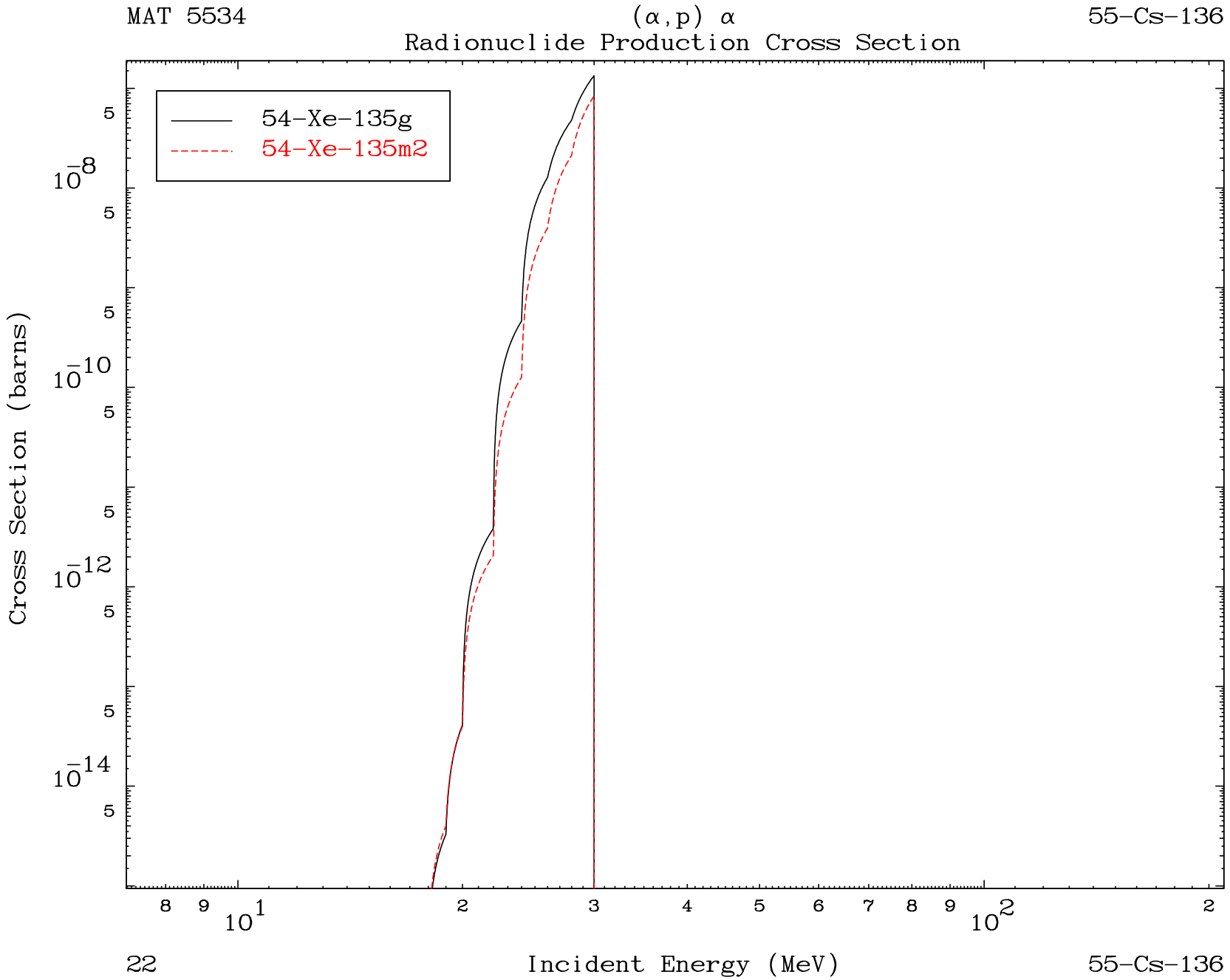

MAT 5534
(α,3n) p
55-Cs-136
Radionuclide Production Cross Section
56-Ba-136g
Cross Section (barns)
10^-9
10^-10
10^-11
10^-12
10^-13
10^-14
10^-15
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
55-Cs-136


MAT 5534
(α,t)
55-Cs-136
Radionuclide Production Cross Section
56-Ba-137g
56-Ba-137m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
55-Cs-136


MAT 5534
(α,α)
55-Cs-136
Radionuclide Production Cross Section
55-Cs-136g
55-Cs-136m1
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
19
55-Cs-136


MAT 5534
(α,2α)
55-Cs-136
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
Incident Energy (MeV)
20
55-Cs-136


MAT 5534
(α,2p)
55-Cs-136
Radionuclide Production Cross Section
55-Cs-138g
55-Cs-138m3
Cross Section (barns)
10^-9
10^-10
10^-11
10^-12
10^-13
10^-14
10^-15
5
2
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
55-Cs-136


MAT 5534
(α,p) α
55-Cs-136
Radionuclide Production Cross Section
54-Xe-135g
54-Xe-135m2
Cross Section (barns)
Incident Energy (MeV)
22
55-Cs-136