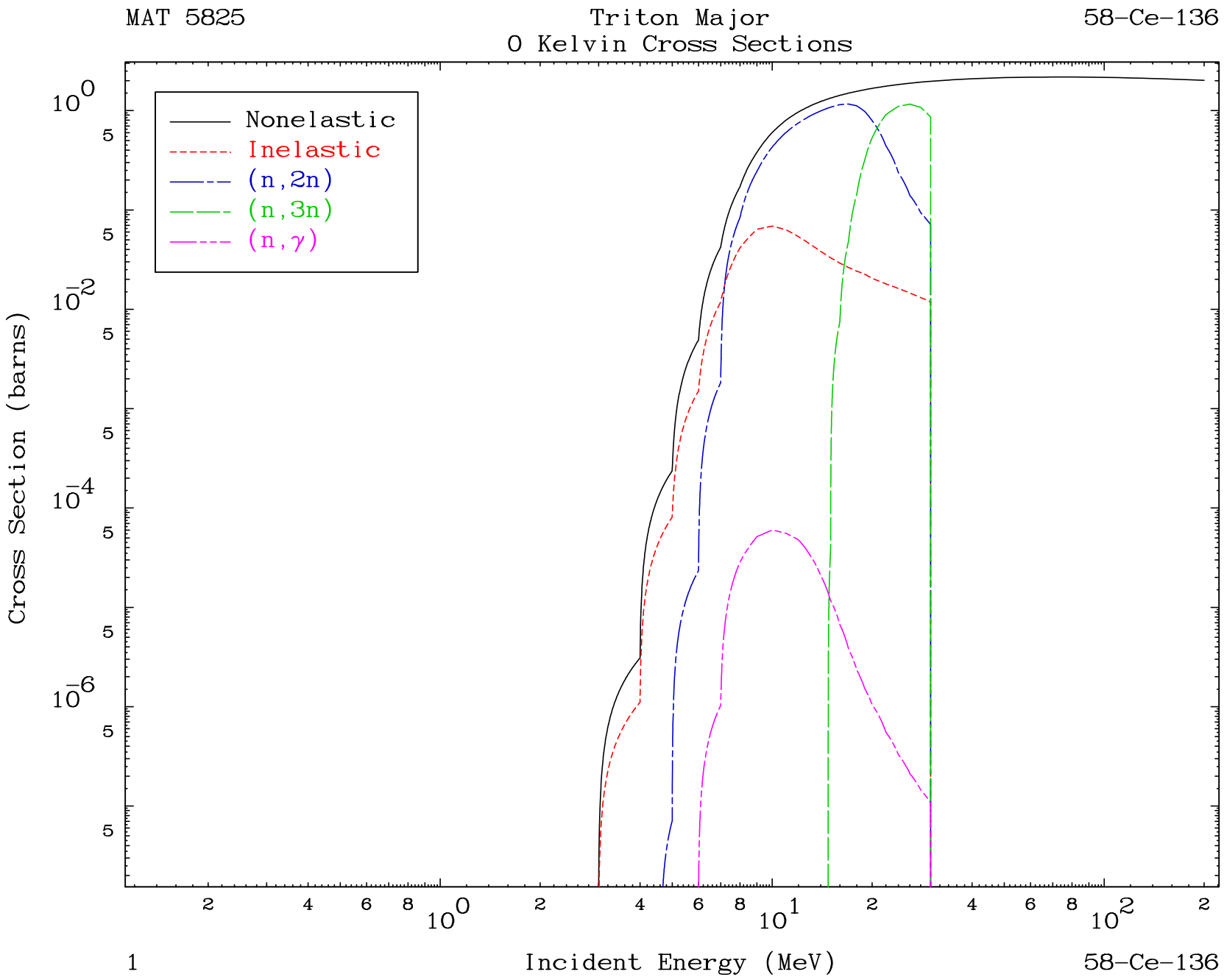
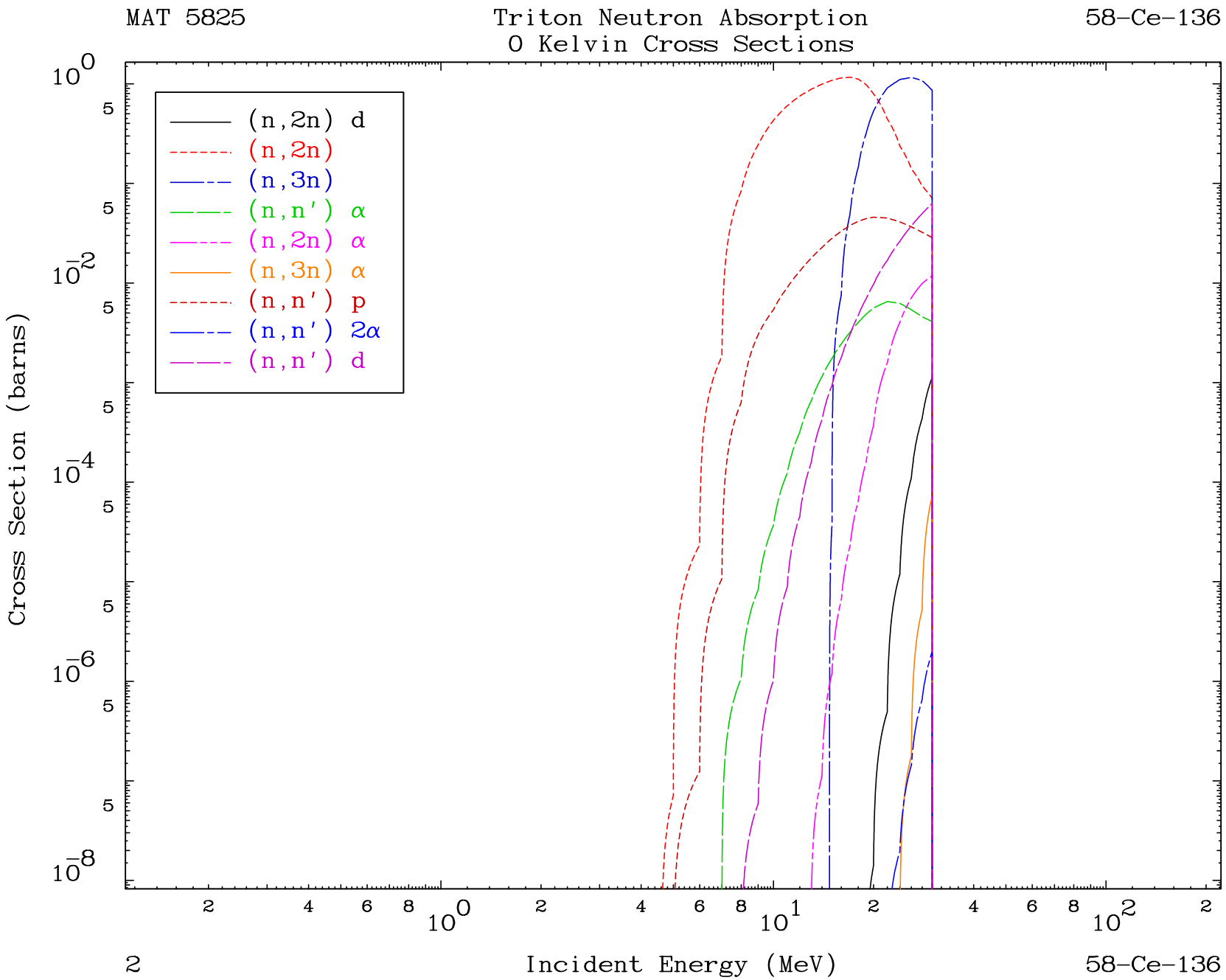
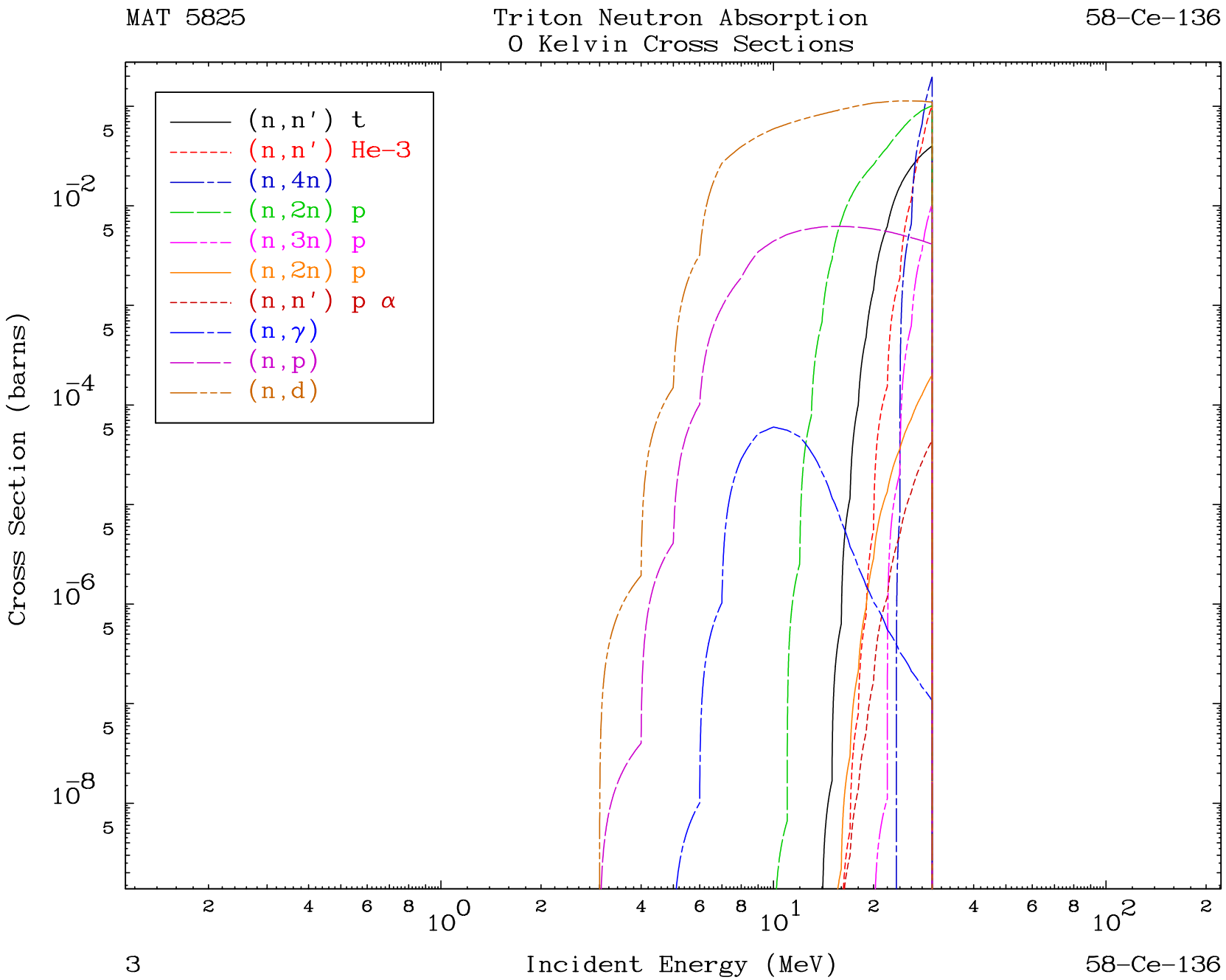
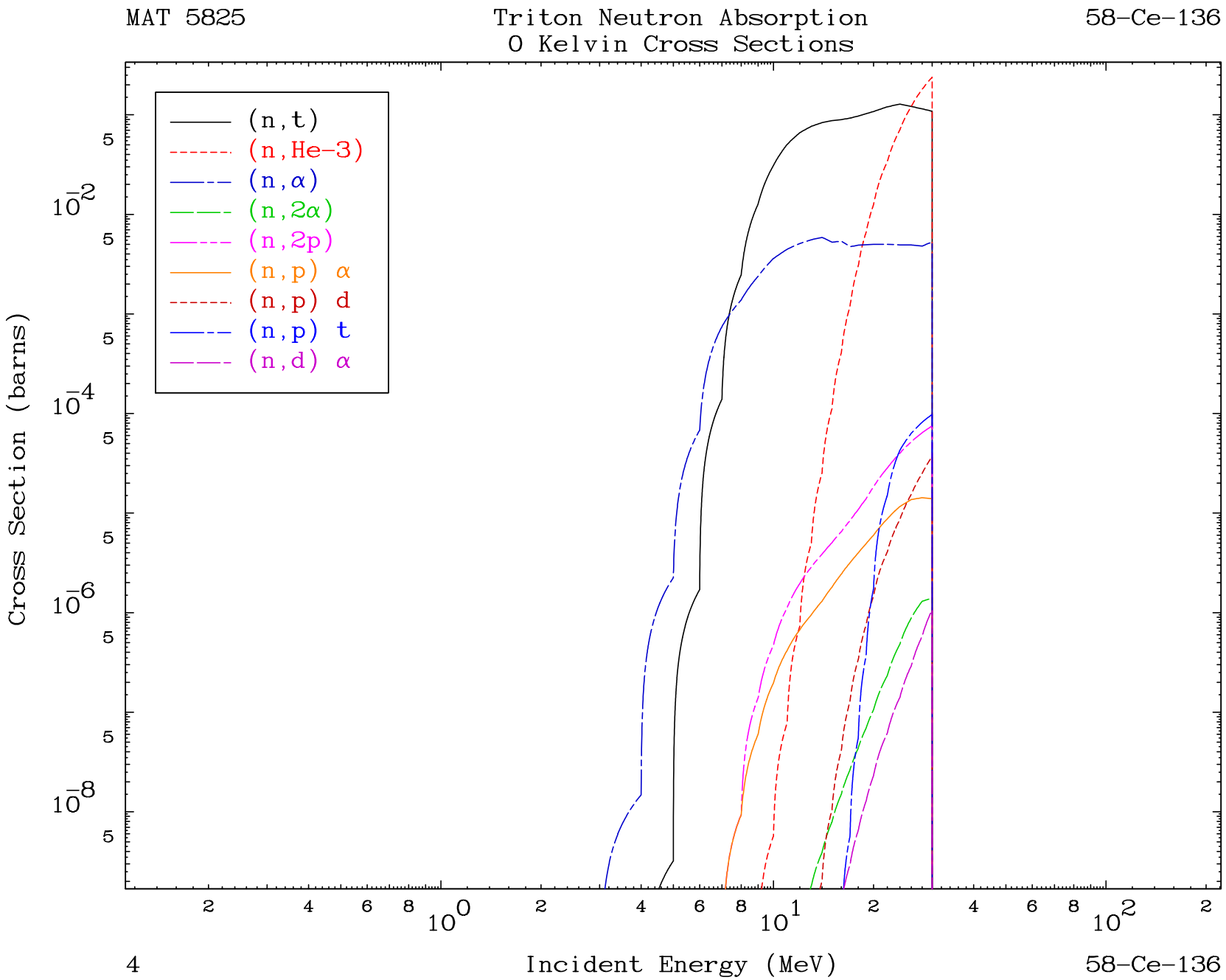
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

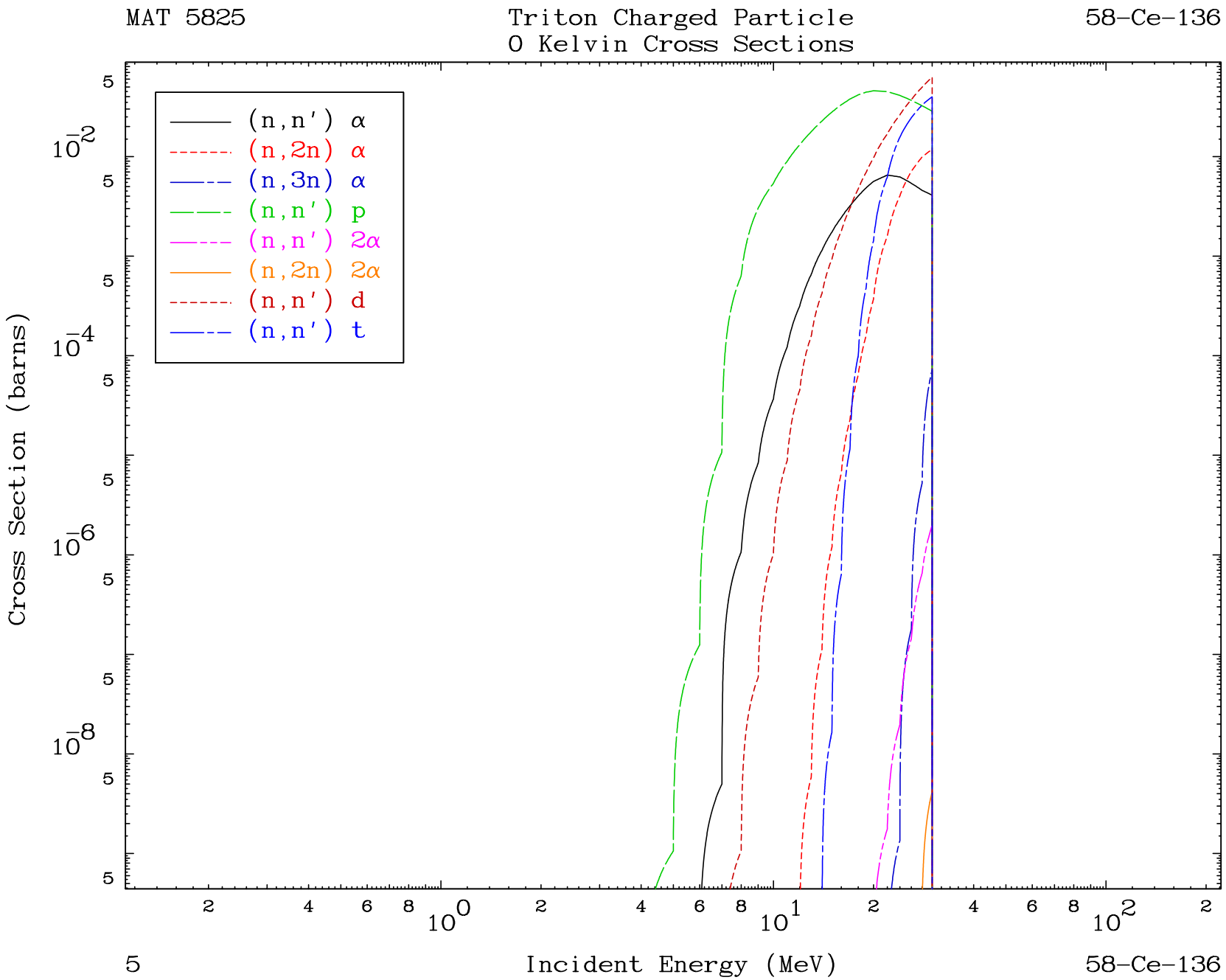
Press Mouse Button to Start

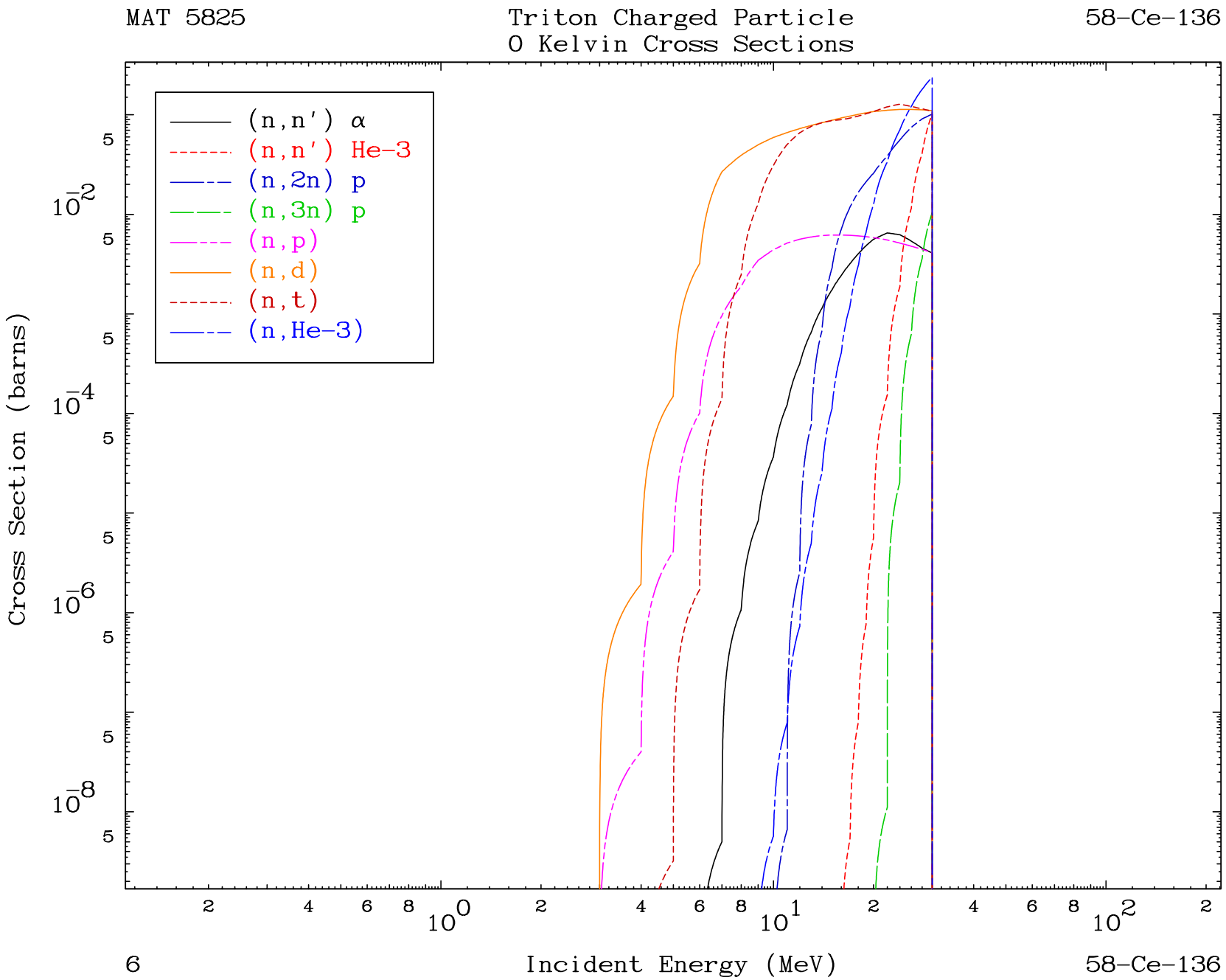

MAT 5825
Triton Major
58-Ce-136
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
58-Ce-136
1

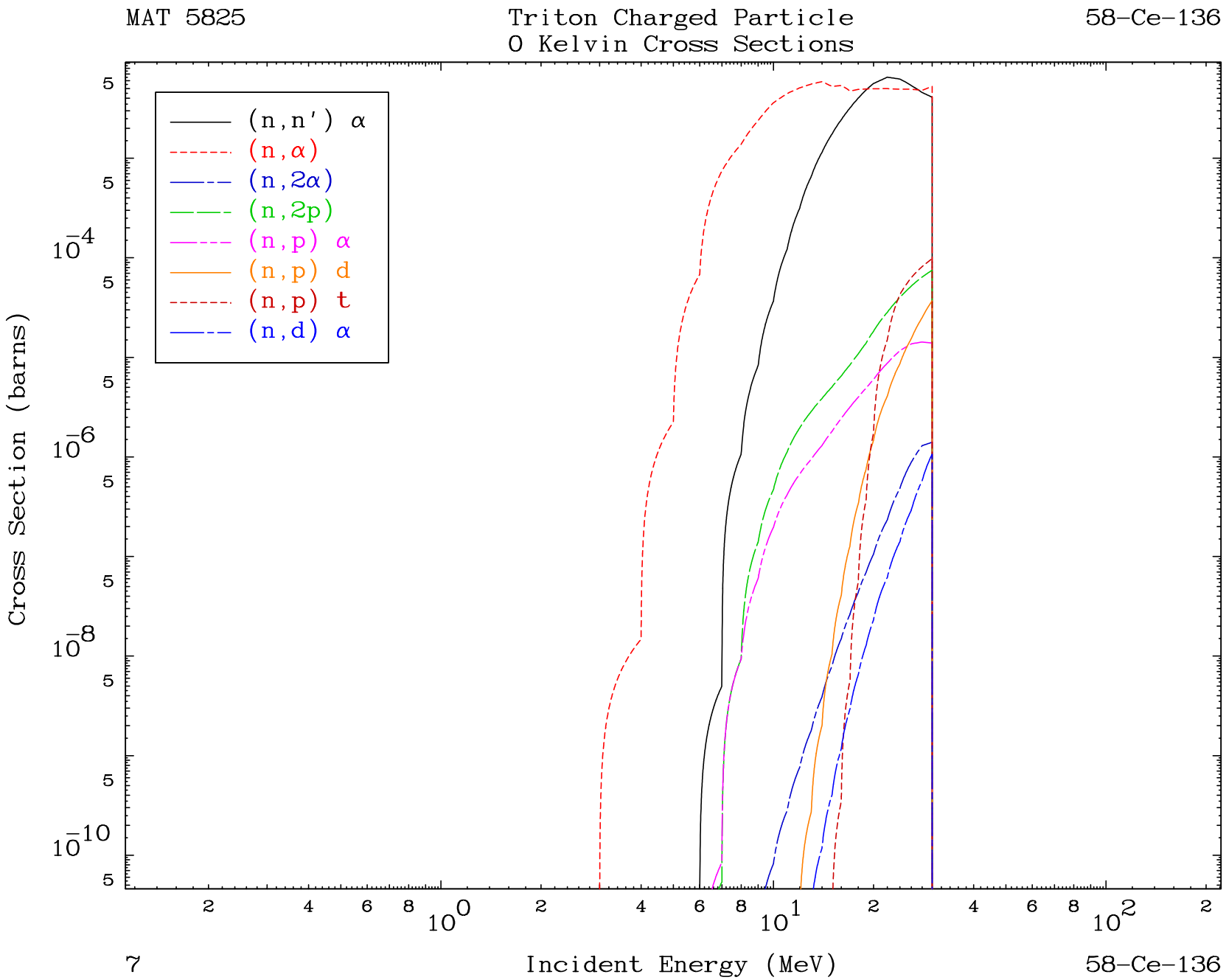

MAT 5825
Triton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-136
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
Cross Section (barns)
Incident Energy (MeV)
58-Ce-136
2

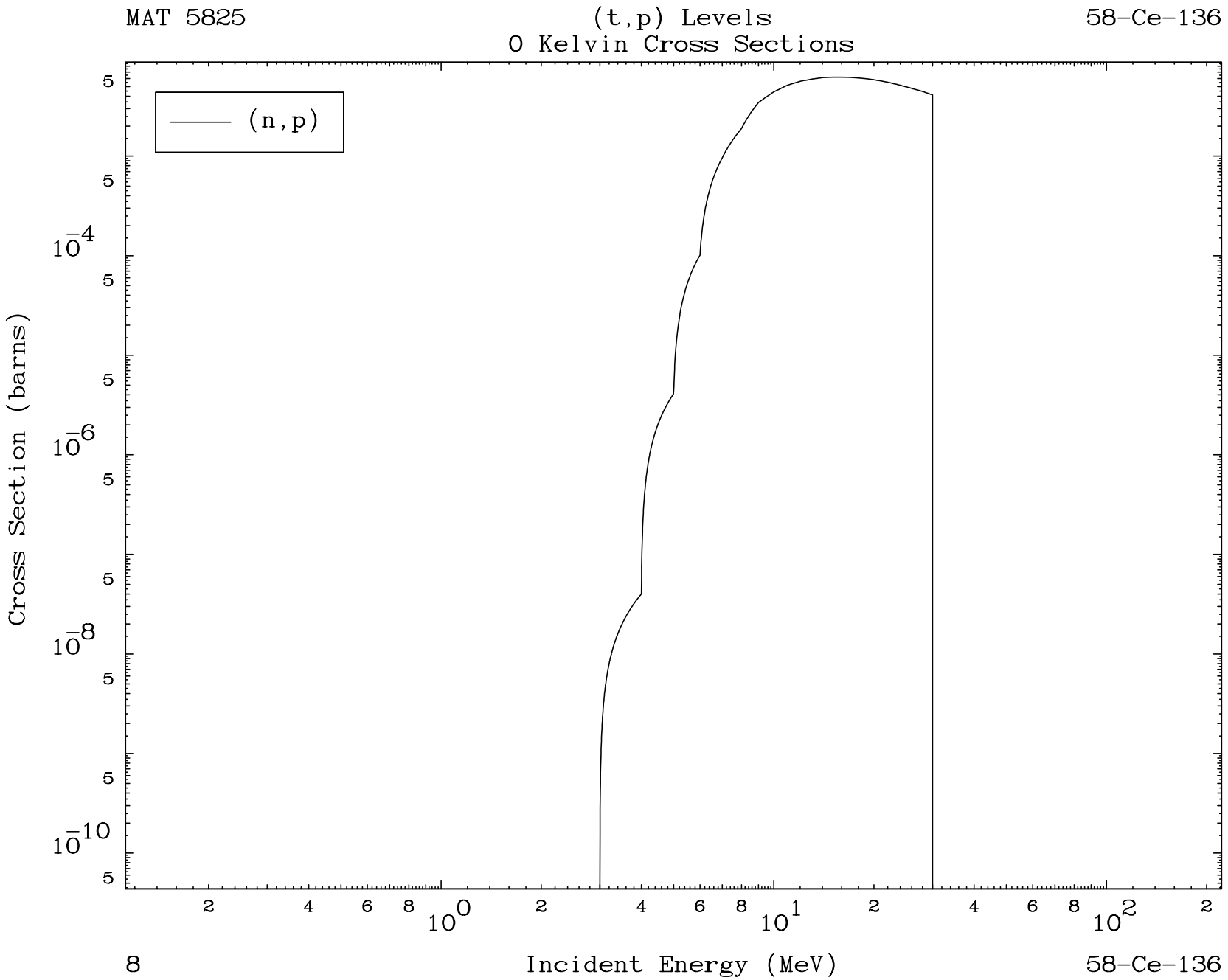

MAT 5825
Triton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-136
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
10 0
10 1
10 2
Incident Energy (MeV)
3
58-Ce-136

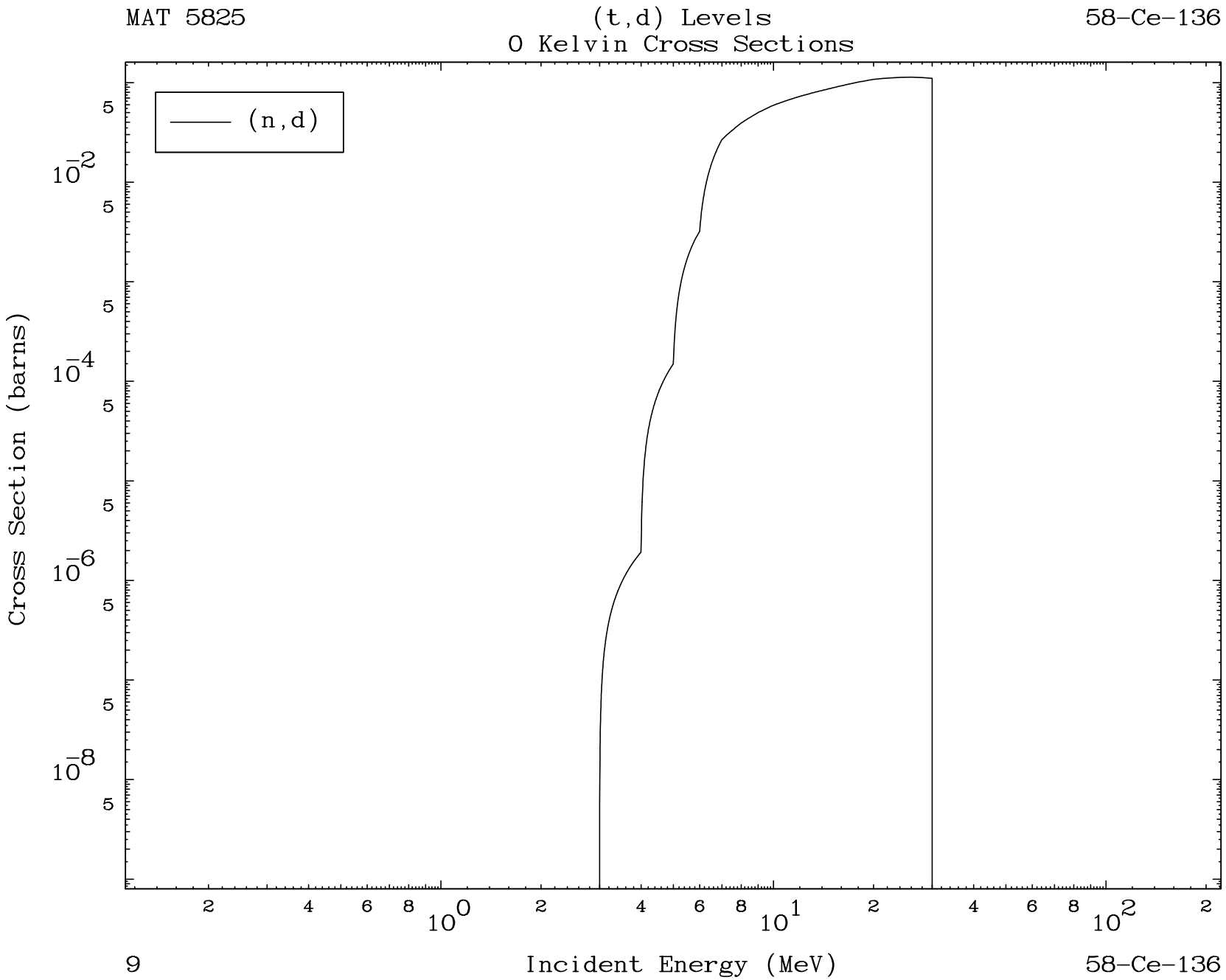

MAT 5825
Triton Neutron Absorption
0 Kelvin Cross Sections
58-Ce-136
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
58-Ce-136

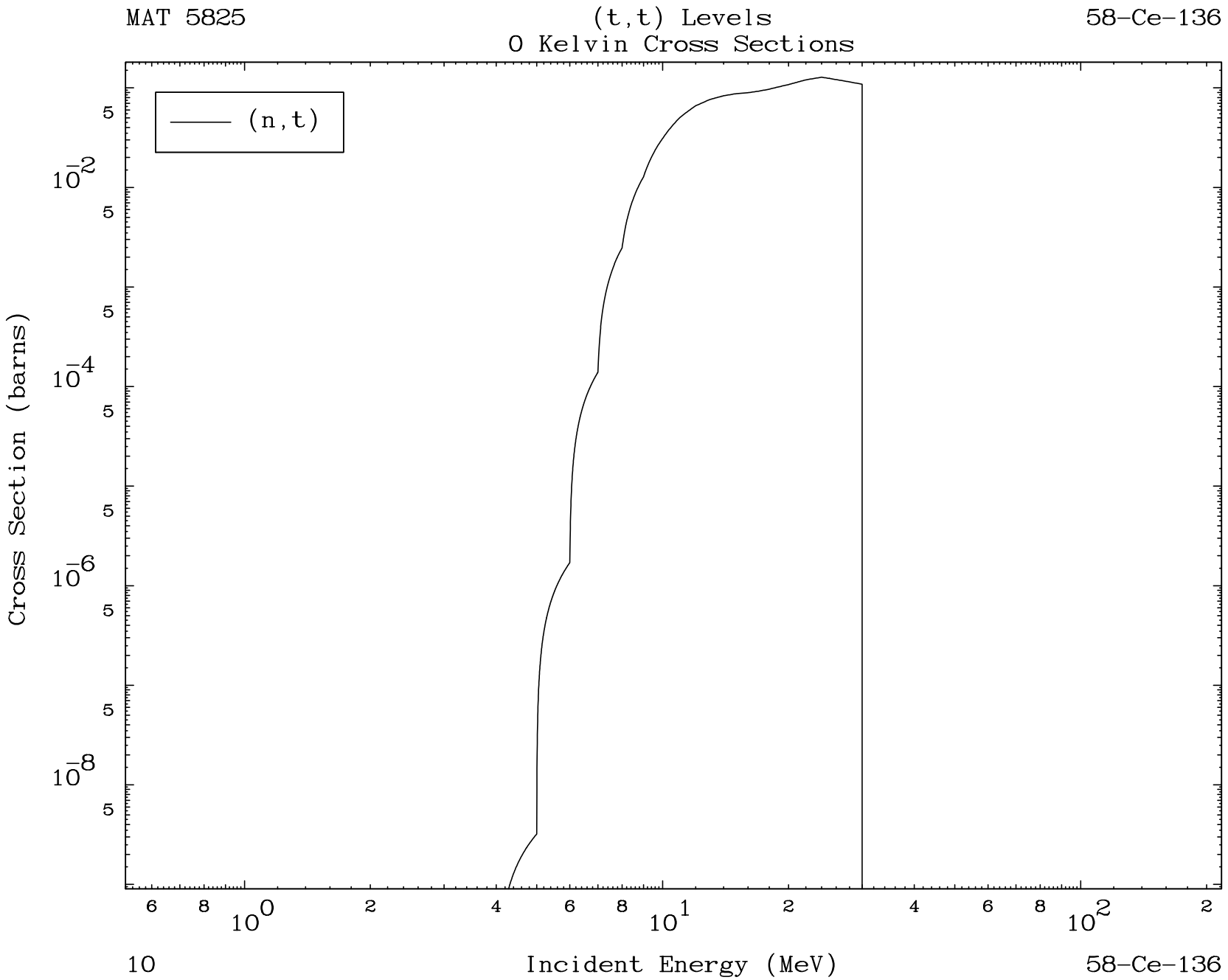

MAT 5825
Triton Charged Particle
0 Kelvin Cross Sections
58-Ce-136
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
58-Ce-136

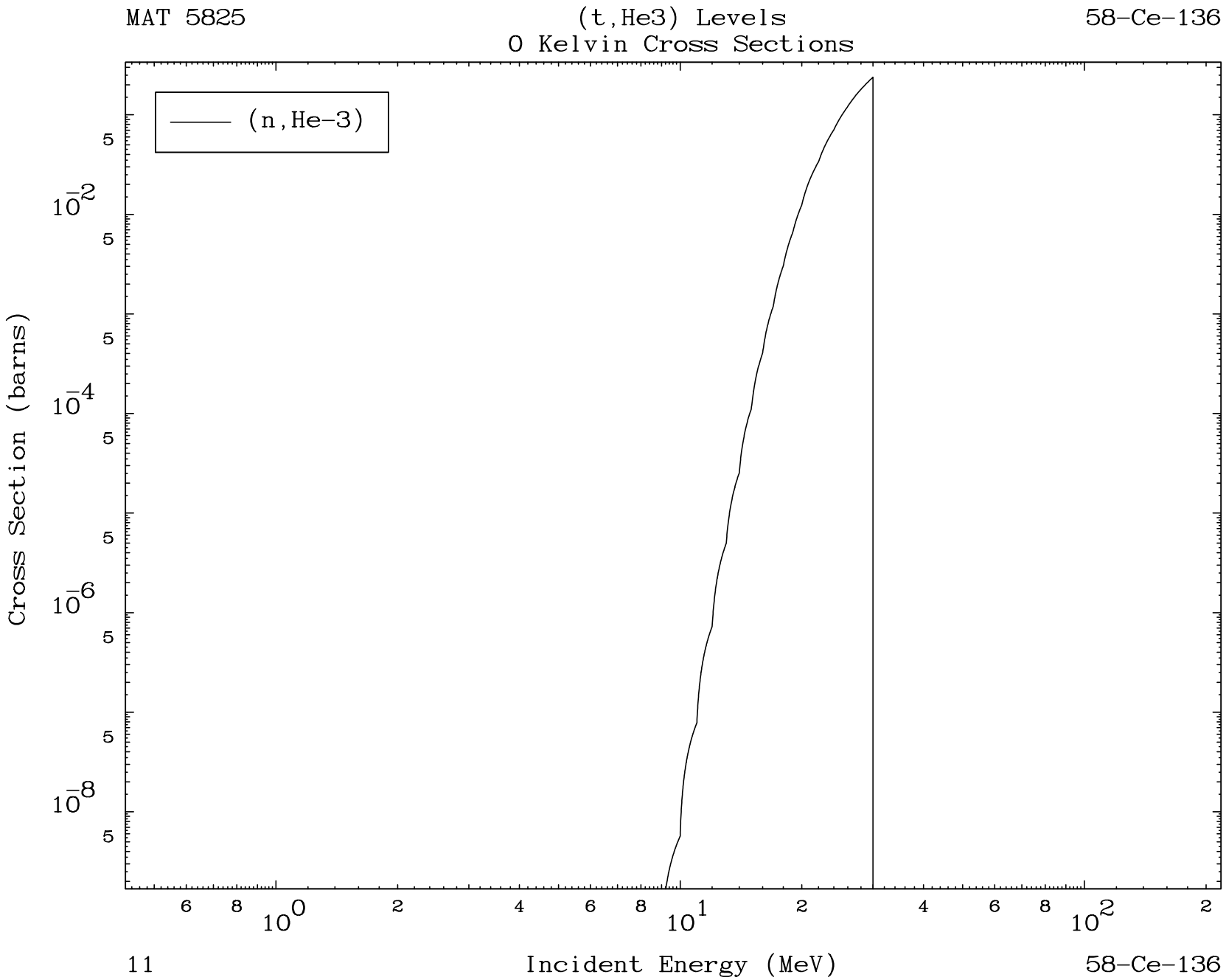

MAT 5825
Triton Charged Particle
0 Kelvin Cross Sections
58-Ce-136
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
6
58-Ce-136

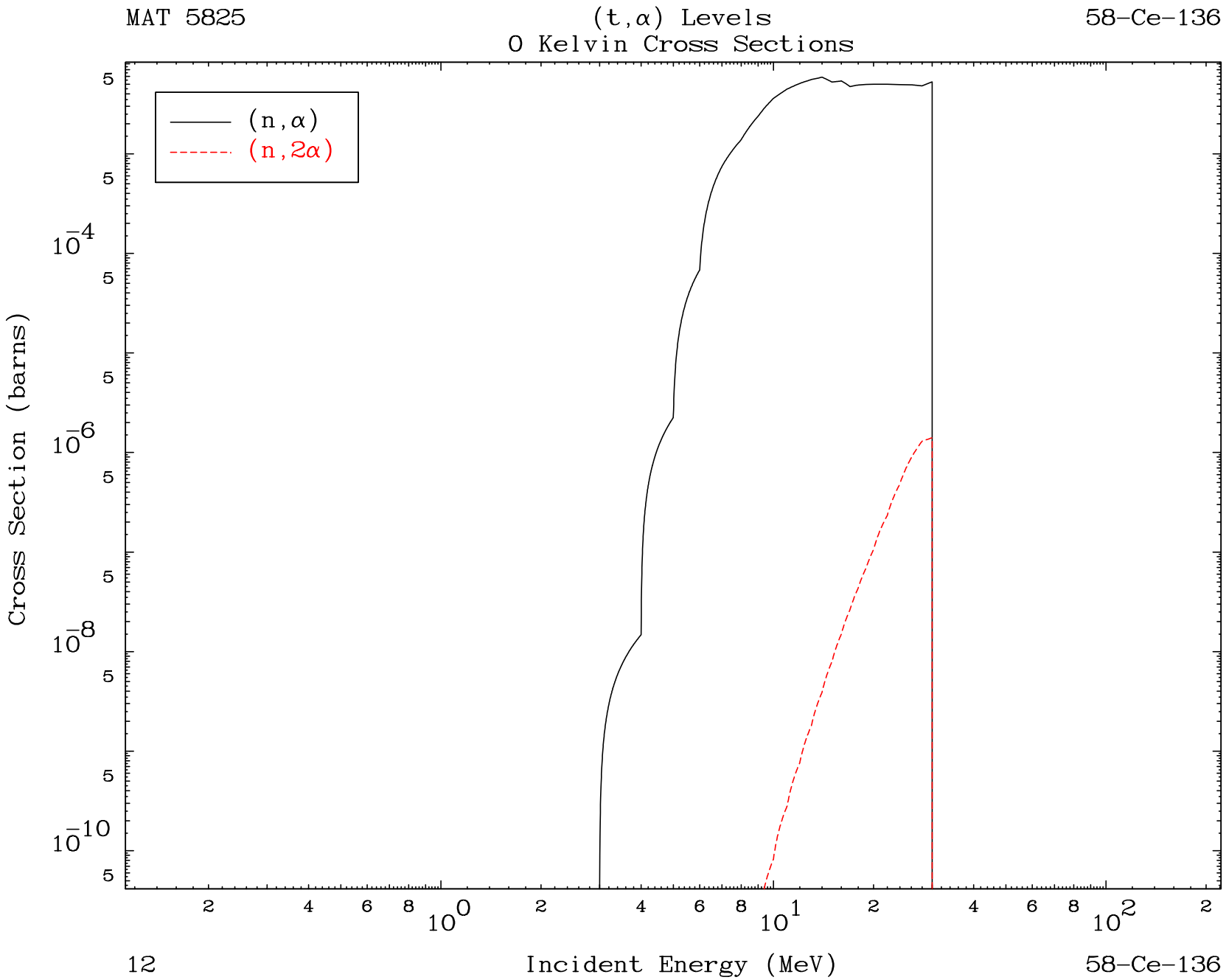

MAT 5825
Triton Charged Particle
0 Kelvin Cross Sections
58-Ce-136
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
7
58-Ce-136

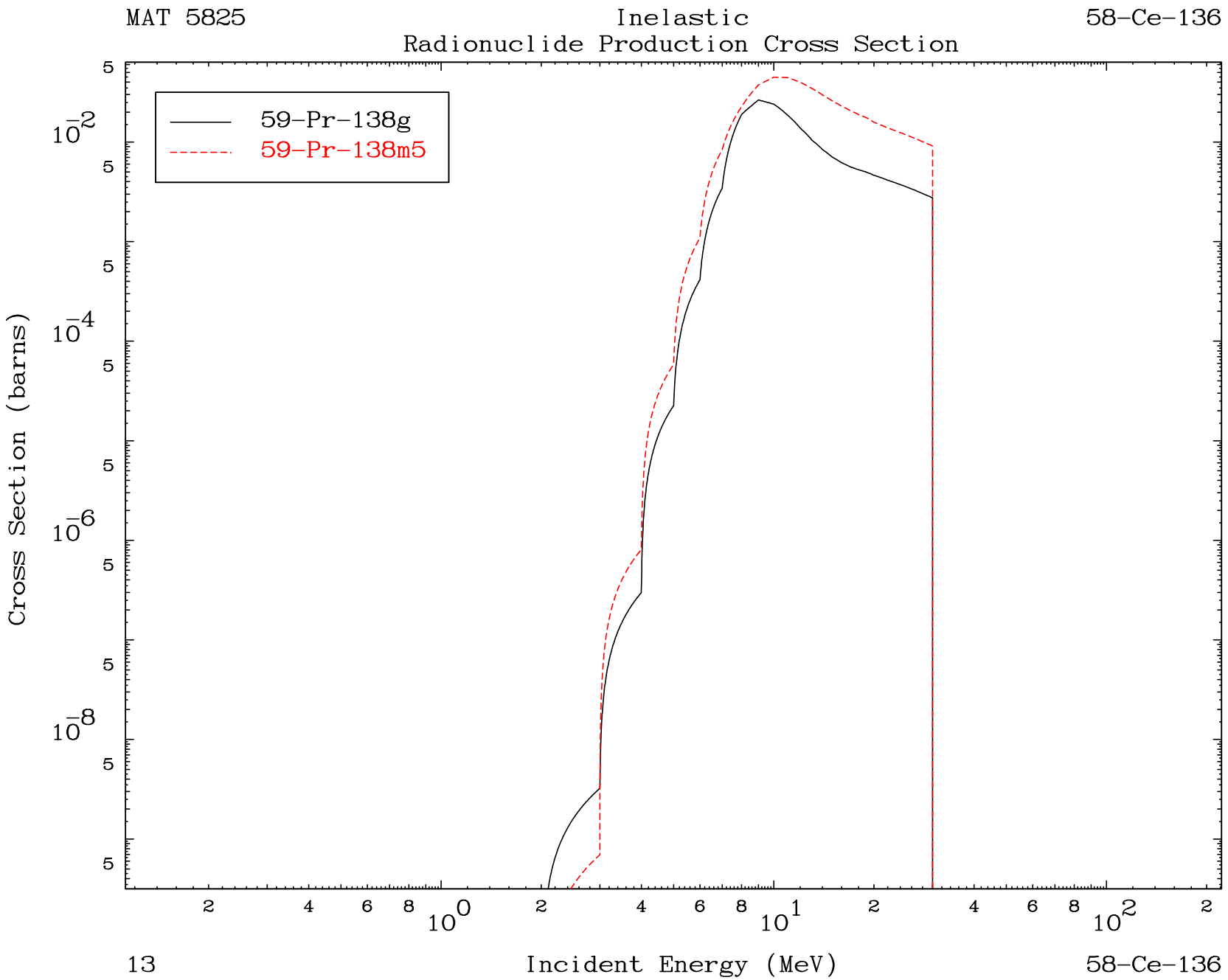

MAT 5825
(t,p) Levels
58-Ce-136
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
8
58-Ce-136

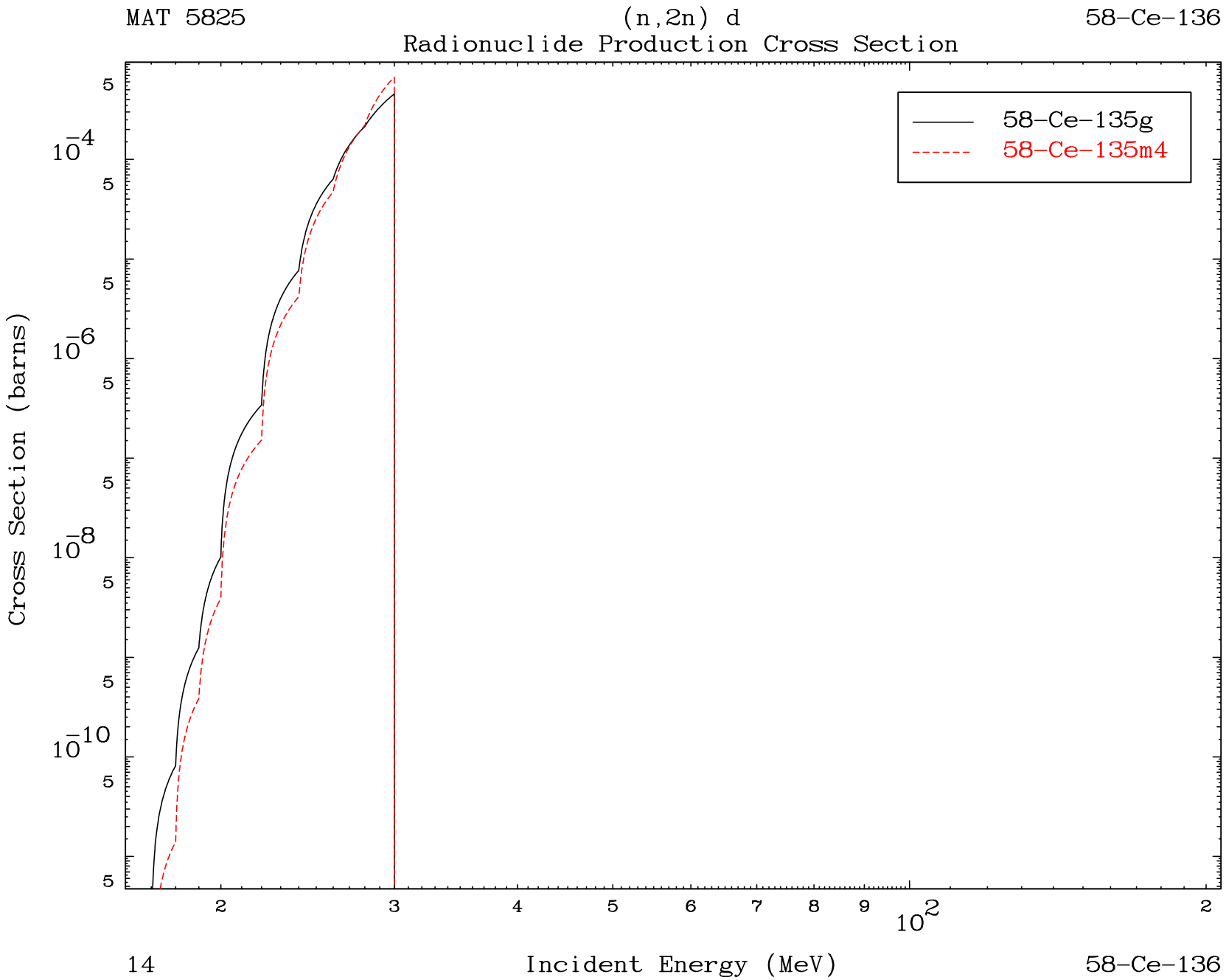

MAT 5825
(t,d) Levels
58-Ce-136
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
58-Ce-136

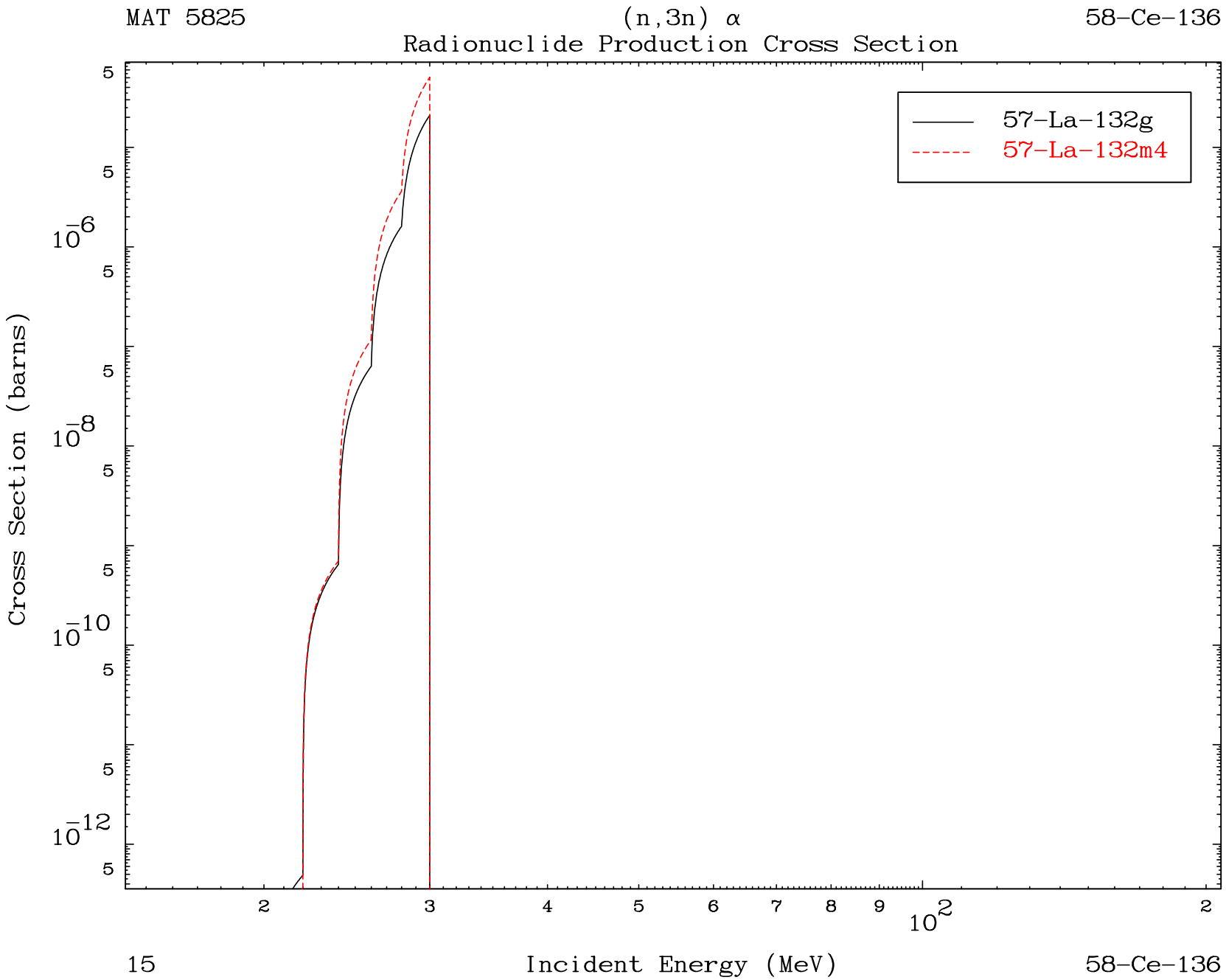

MAT 5825
(t,t) Levels
58-Ce-136
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
58-Ce-136

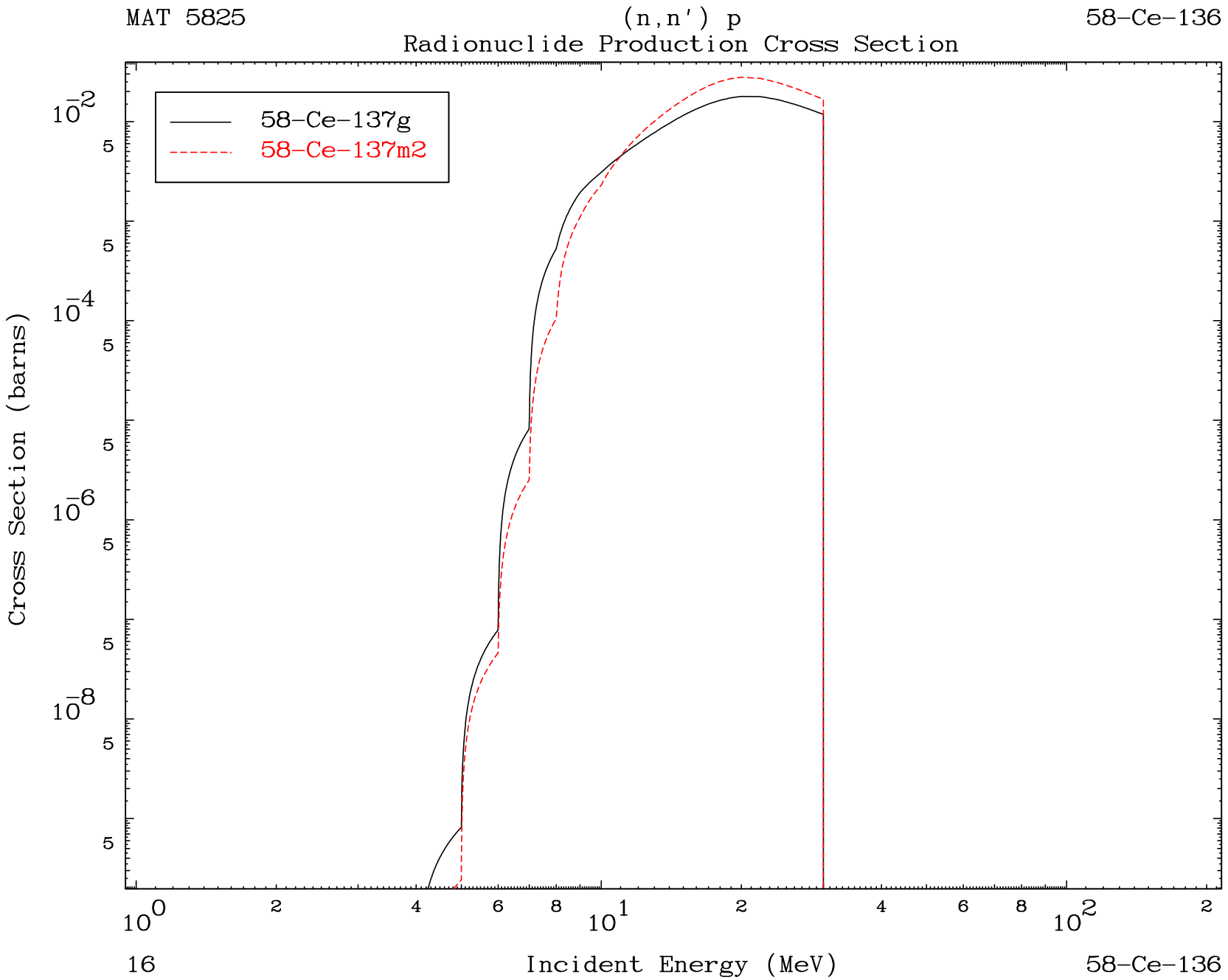

MAT 5825
(t,He3) Levels
58-Ce-136
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
11
58-Ce-136

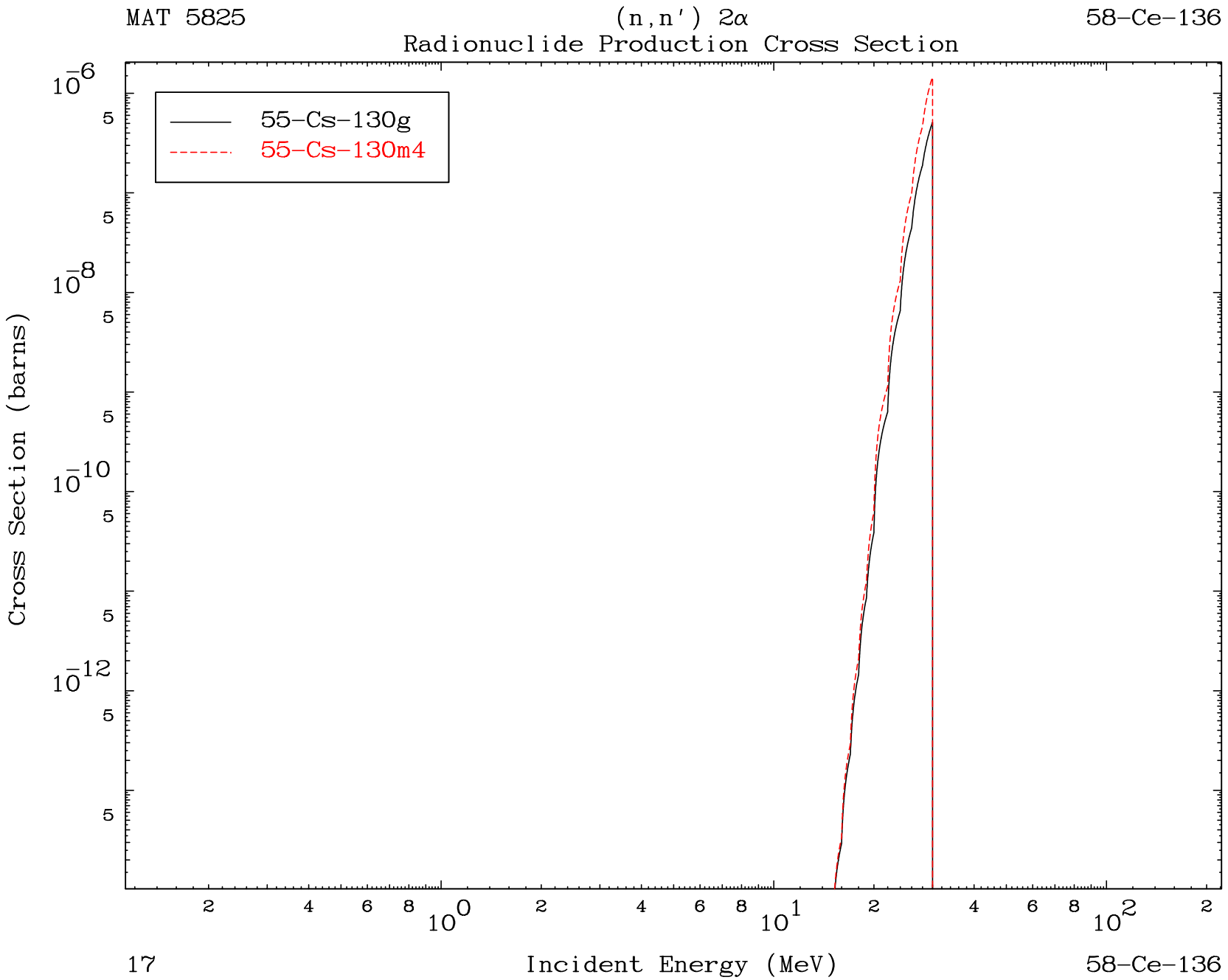

MAT 5825
(t,α) Levels
58-Ce-136
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
12
58-Ce-136

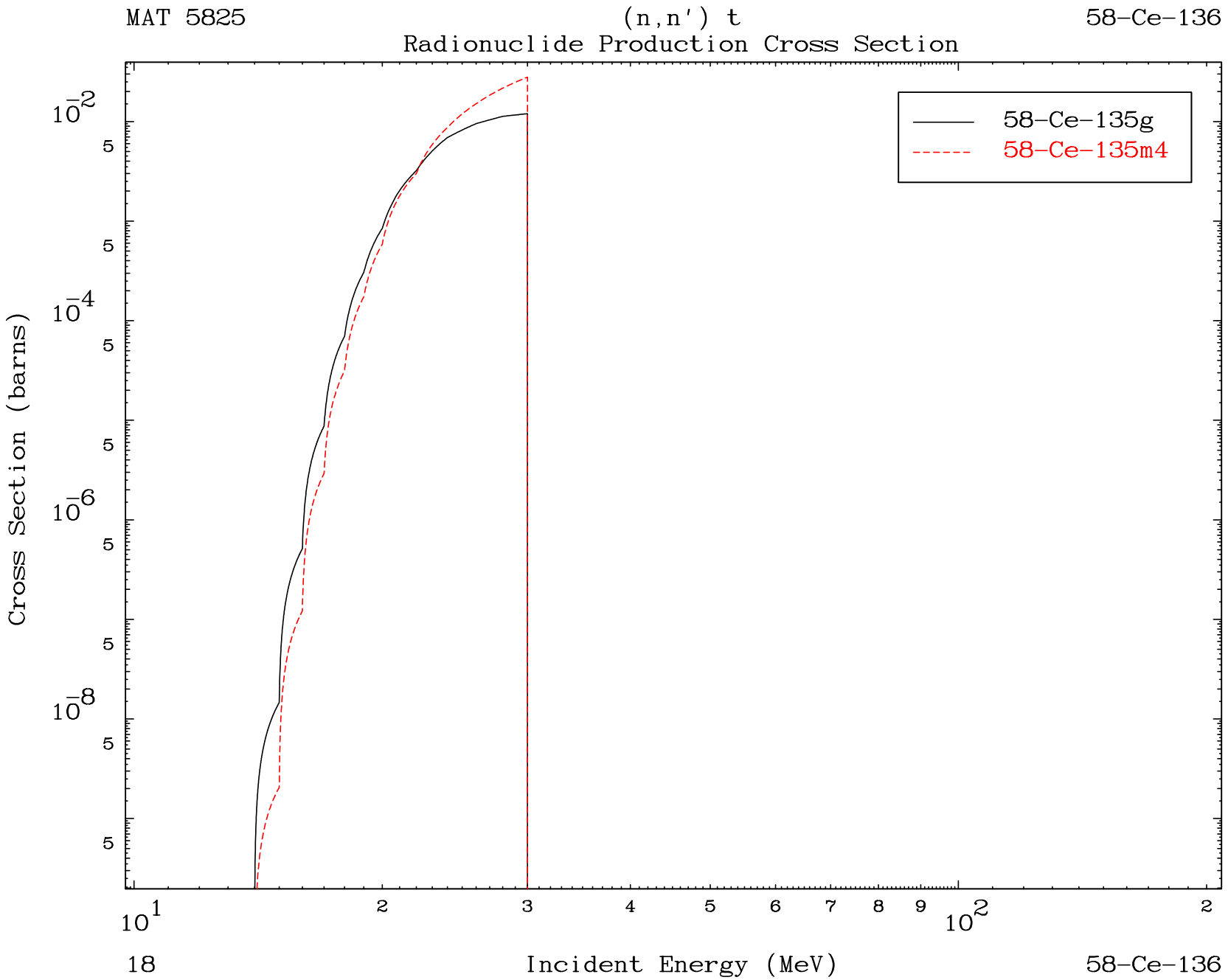

MAT 5825
Inelastic
58-Ce-136
Radionuclide Production Cross Section
59-Pr-138g
59-Pr-138m5
Cross Section (barns)
Incident Energy (MeV)
13
58-Ce-136

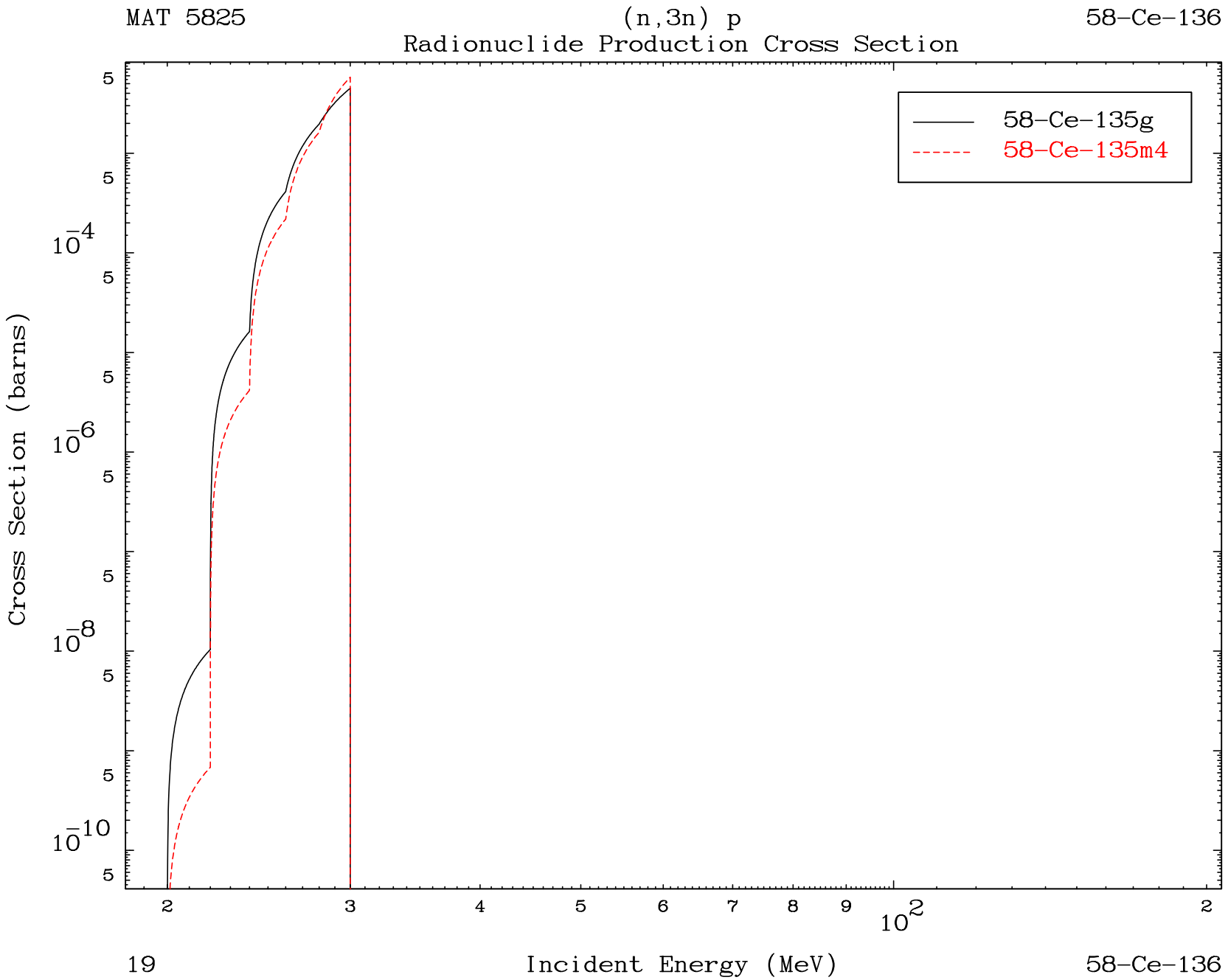

MAT 5825
(n,2n) d
58-Ce-136
Radionuclide Production Cross Section
58-Ce-135g
58-Ce-135m4
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
14
58-Ce-136

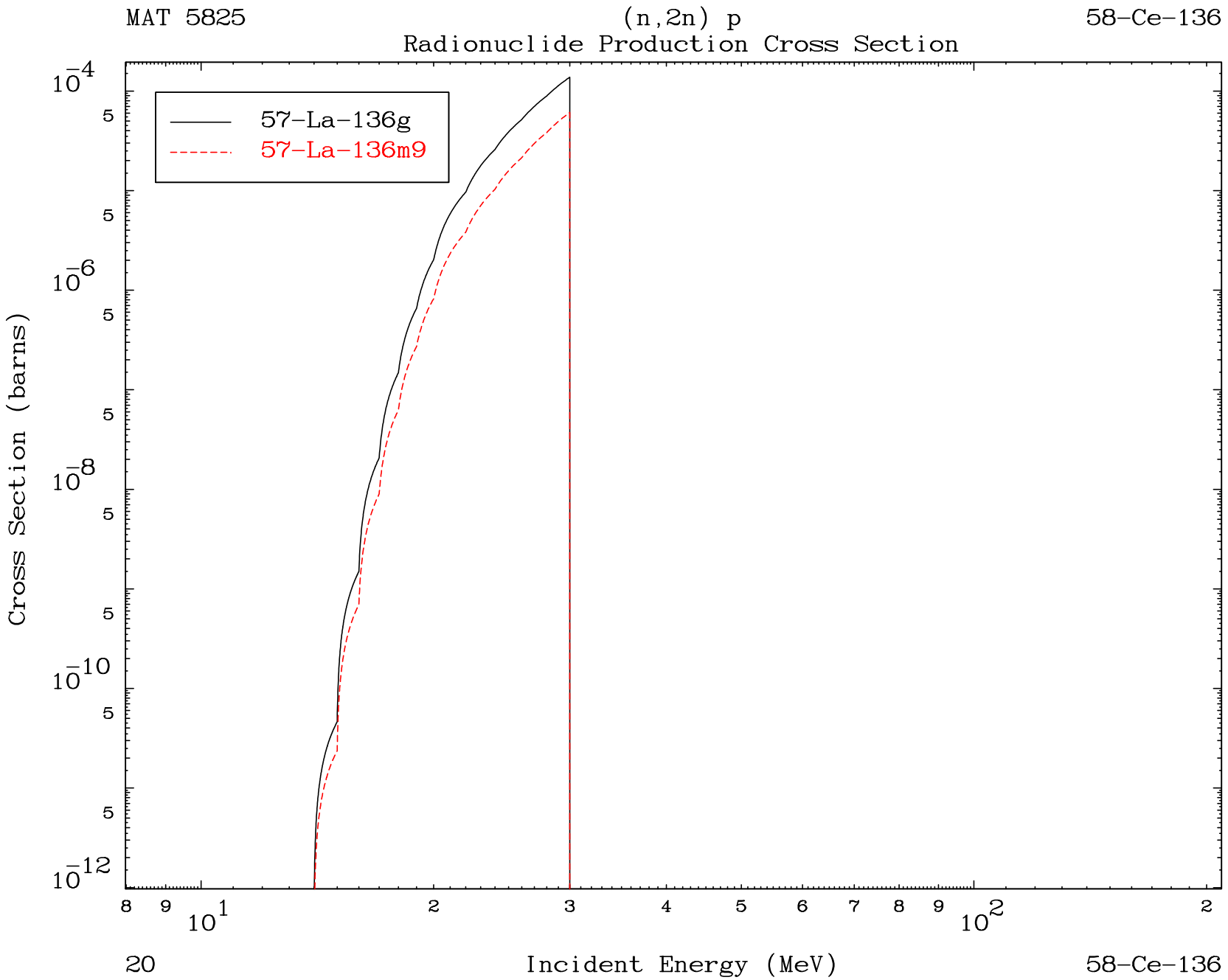

MAT 5825
(n,3n) α
58-Ce-136
Radionuclide Production Cross Section
57-La-132g
57-La-132m4
Cross Section (barns)
Incident Energy (MeV)
15
58-Ce-136

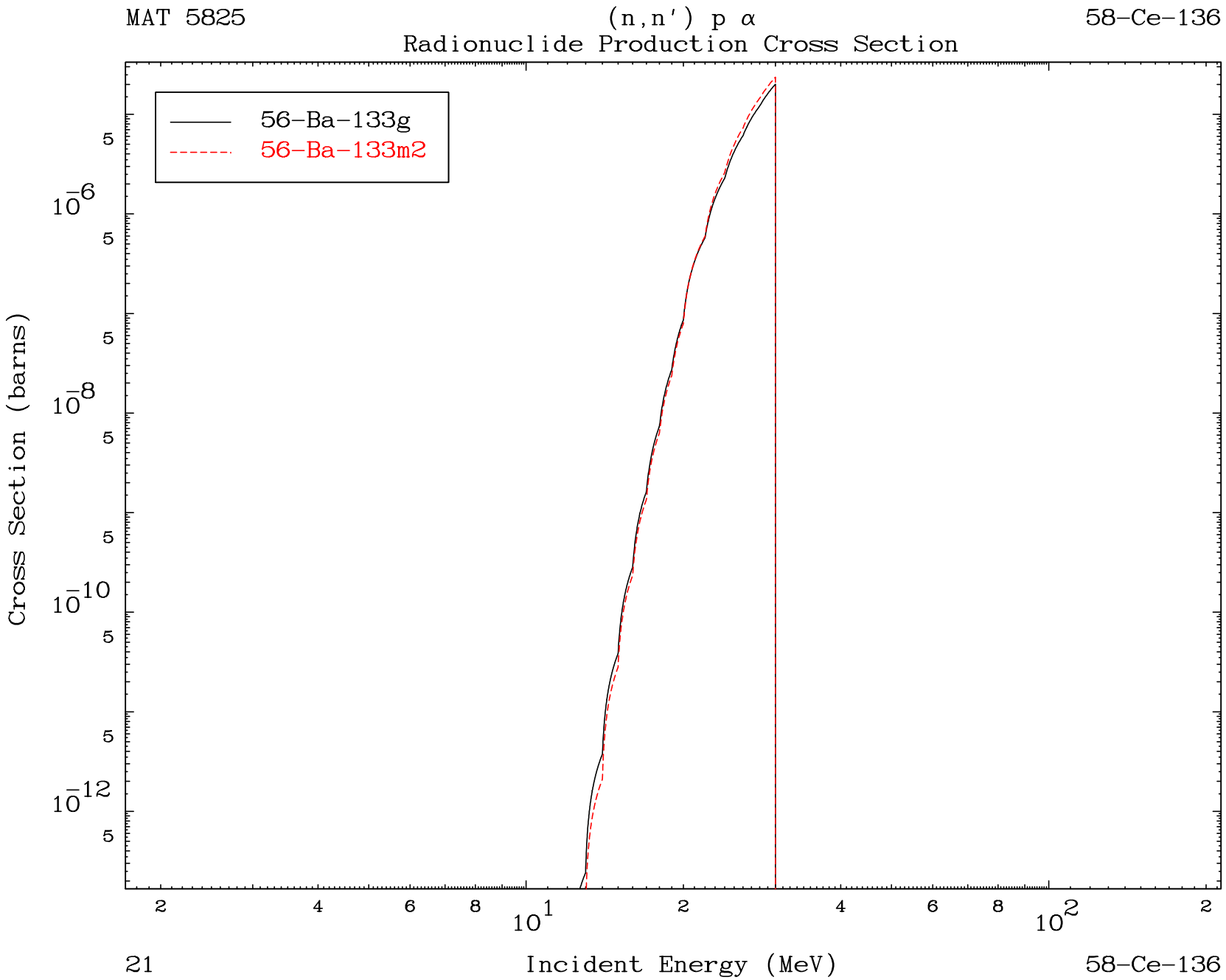

MAT 5825
(n,n') p
58-Ce-136
Radionuclide Production Cross Section
58-Ce-137g
58-Ce-137m2
Cross Section (barns)
Incident Energy (MeV)
16
58-Ce-136

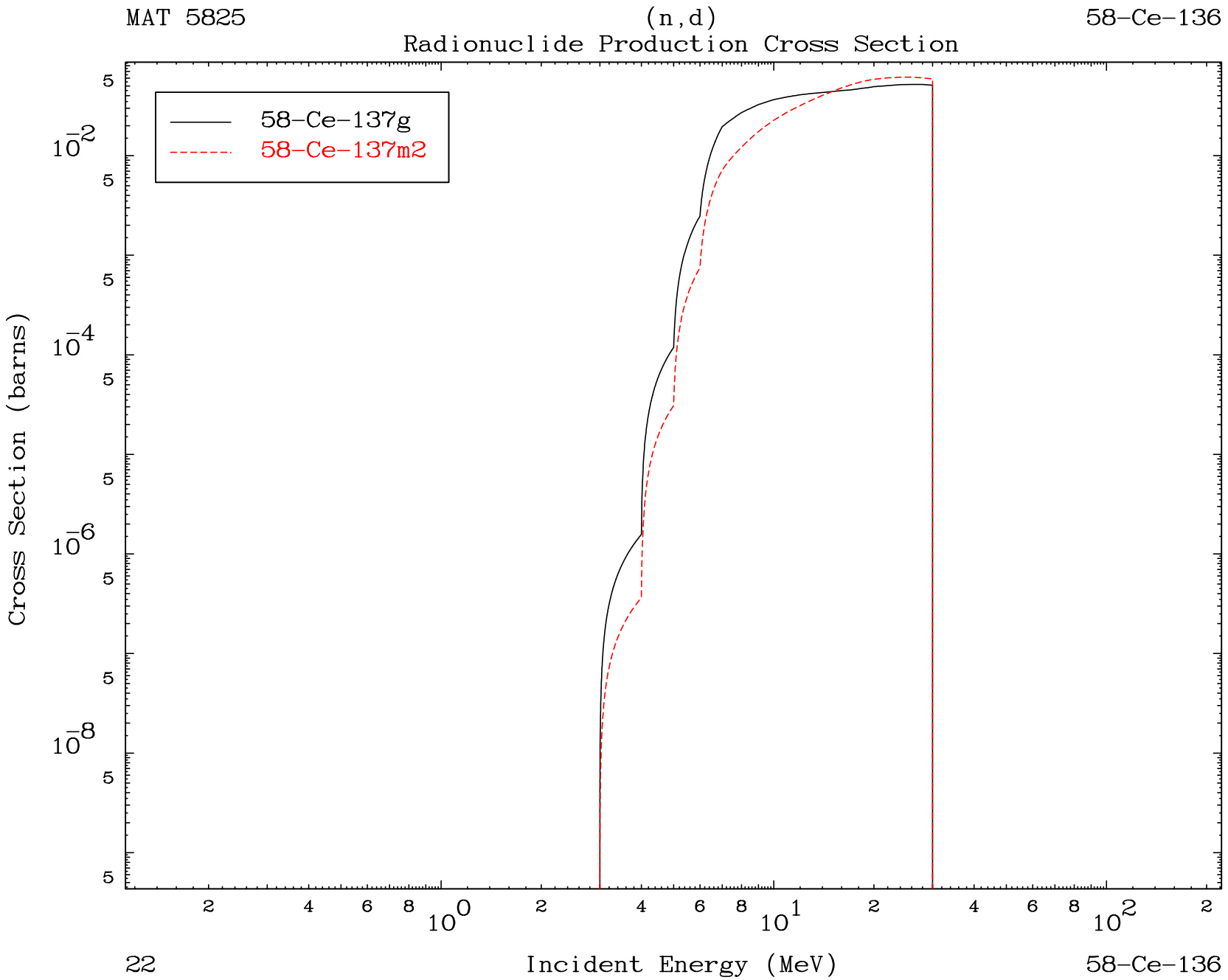

MAT 5825
(n,n') 2α
58-Ce-136
Radionuclide Production Cross Section
55-Cs-130g
55-Cs-130m4
Cross Section (barns)
Incident Energy (MeV)
17
58-Ce-136

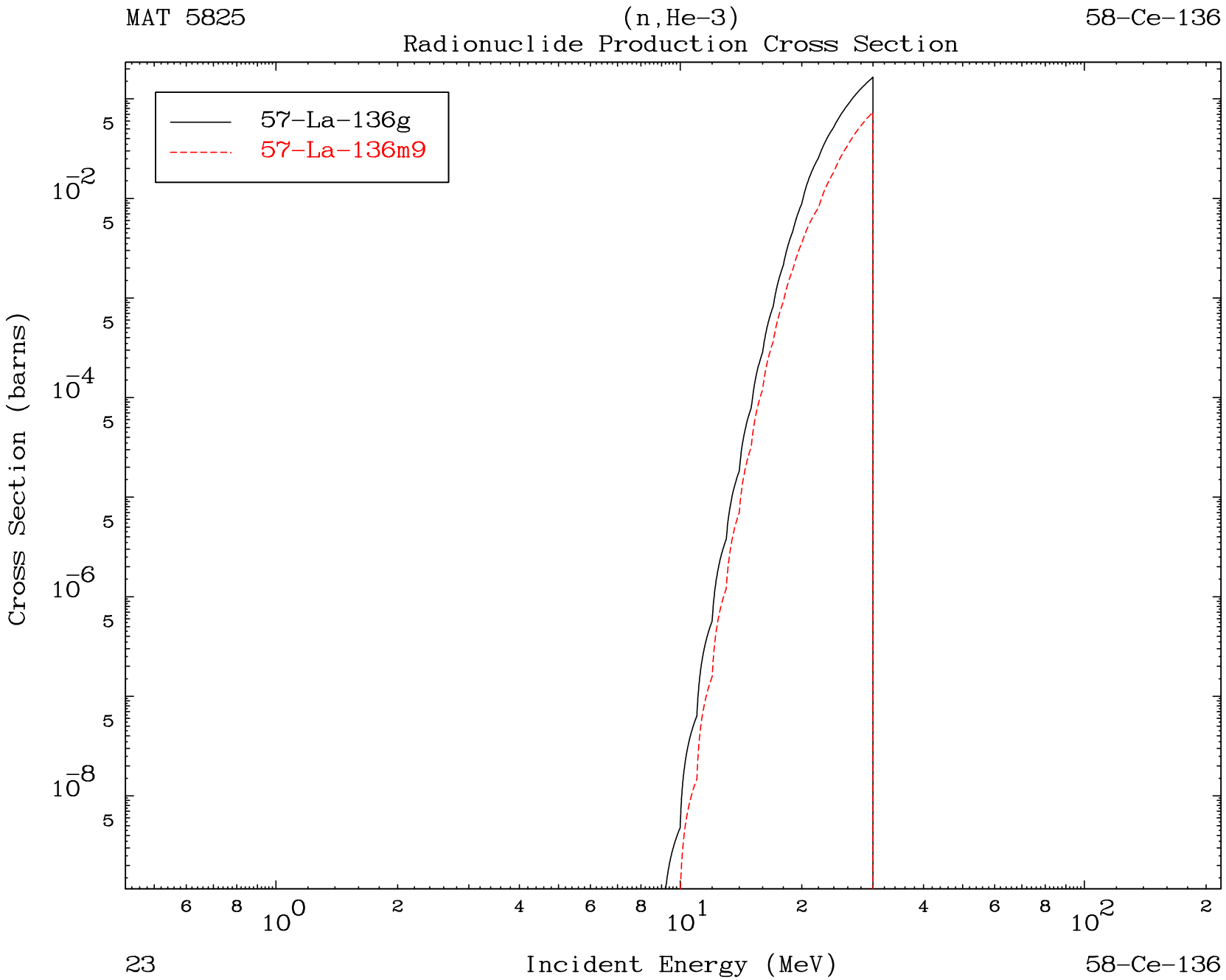

MAT 5825
(n,n') t
58-Ce-136
Radionuclide Production Cross Section
58-Ce-135g
58-Ce-135m4
Cross Section (barns)
Incident Energy (MeV)
18
58-Ce-136

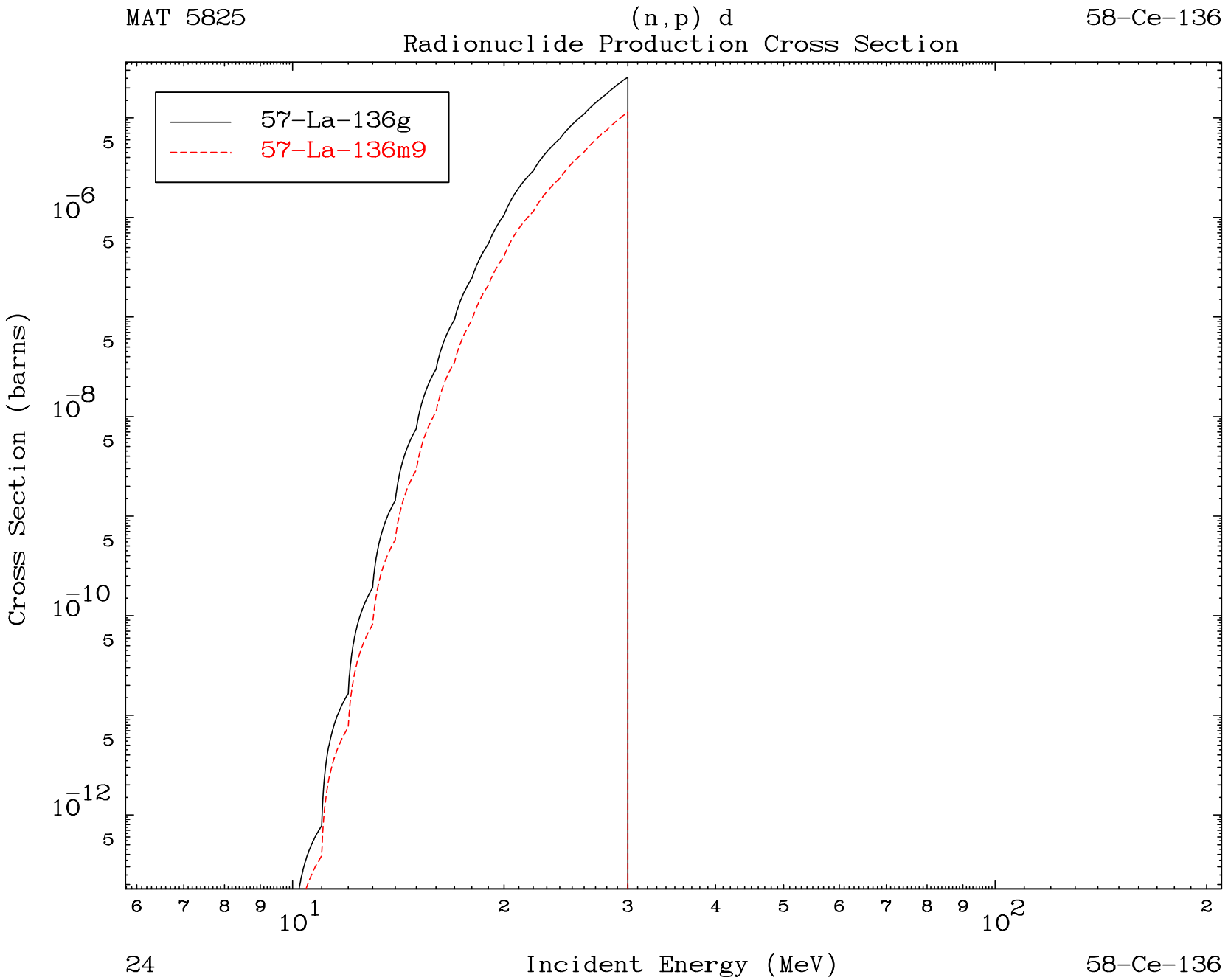

MAT 5825
(n,3n) p
58-Ce-136
Radionuclide Production Cross Section
58-Ce-135g
58-Ce-135m4
Cross Section (barns)
Incident Energy (MeV)
19
58-Ce-136

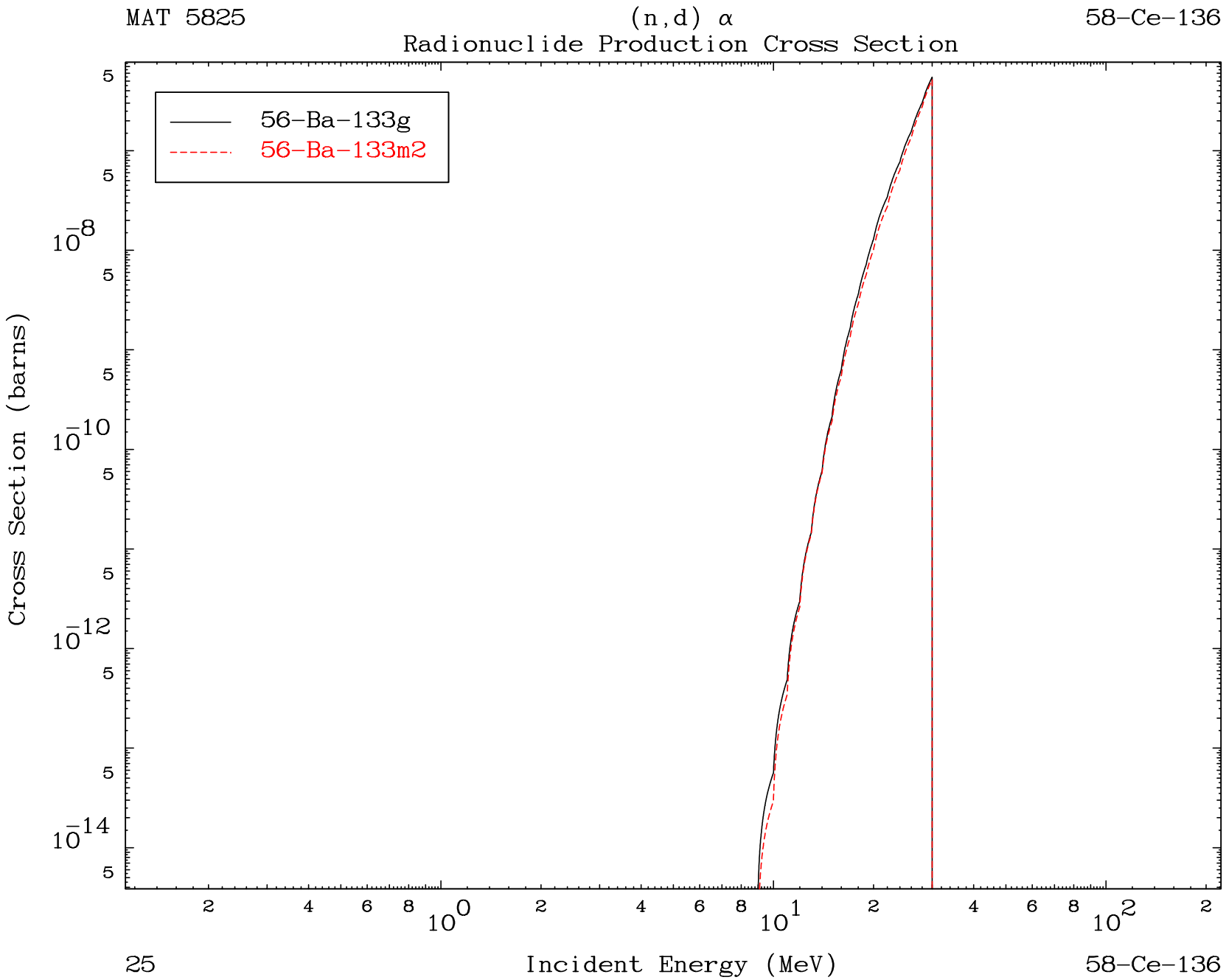

MAT 5825
(n,2n) p
58-Ce-136
Radionuclide Production Cross Section
57-La-136g
57-La-136m9
Cross Section (barns)
Incident Energy (MeV)
20
58-Ce-136


MAT 5825
(n,n') p α
58-Ce-136
Radionuclide Production Cross Section
56-Ba-133g
56-Ba-133m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
4
6
8
10^1
10^2
21
Incident Energy (MeV)
58-Ce-136


MAT 5825
(n,d)
58-Ce-136
Radionuclide Production Cross Section
58-Ce-137g
58-Ce-137m2
Cross Section (barns)
Incident Energy (MeV)
22
58-Ce-136


MAT 5825
(n,He-3)
58-Ce-136
Radionuclide Production Cross Section
57-La-136g
57-La-136m9
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
23
58-Ce-136


MAT 5825
(n,p) d
58-Ce-136
Radionuclide Production Cross Section
57-La-136g
57-La-136m9
Cross Section (barns)
10-6
10-8
10-10
10-12
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
24
Incident Energy (MeV)
58-Ce-136


MAT 5825
(n,d) α
58-Ce-136
Radionuclide Production Cross Section
56-Ba-133g
56-Ba-133m2
Cross Section (barns)
Incident Energy (MeV)
25
58-Ce-136