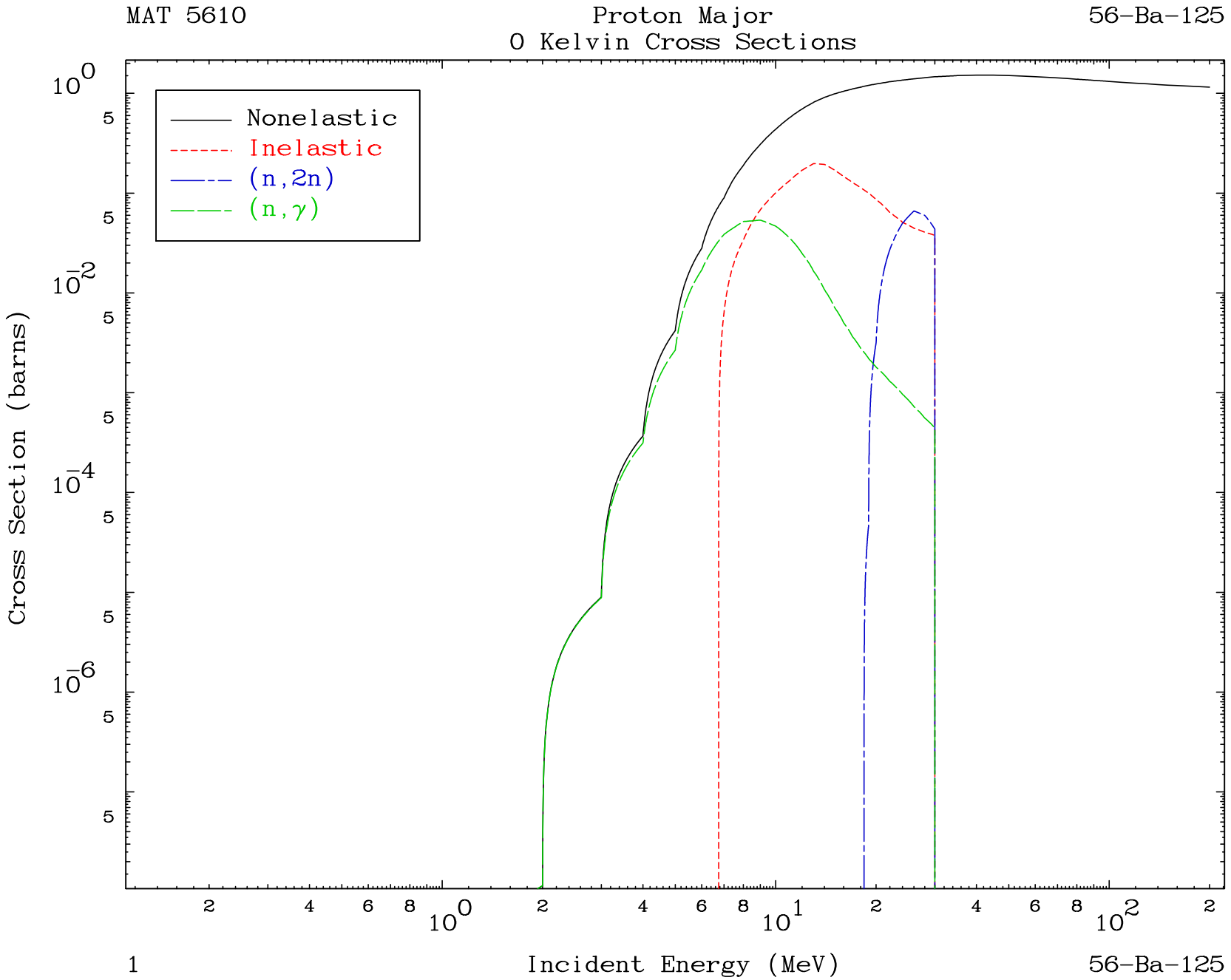
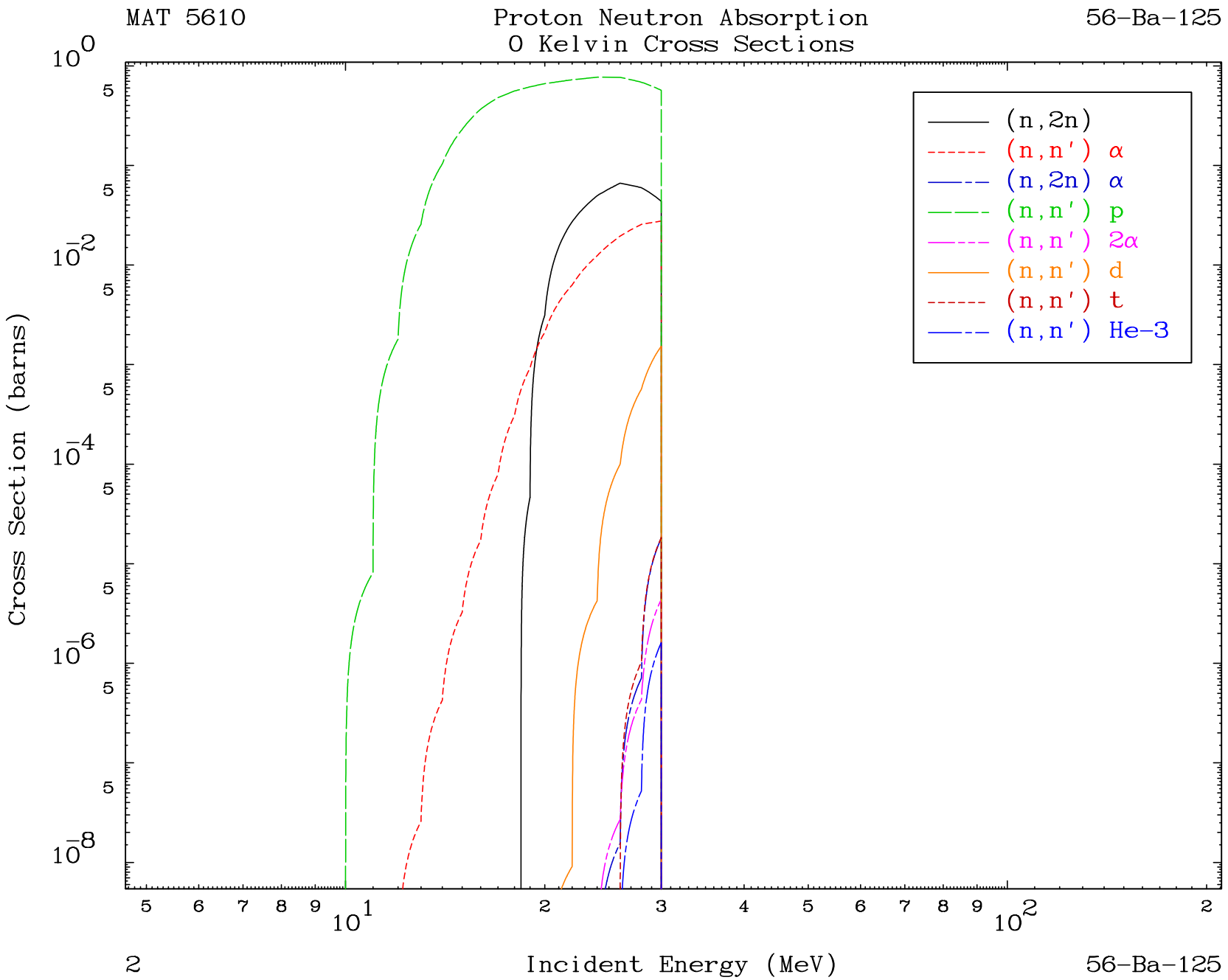
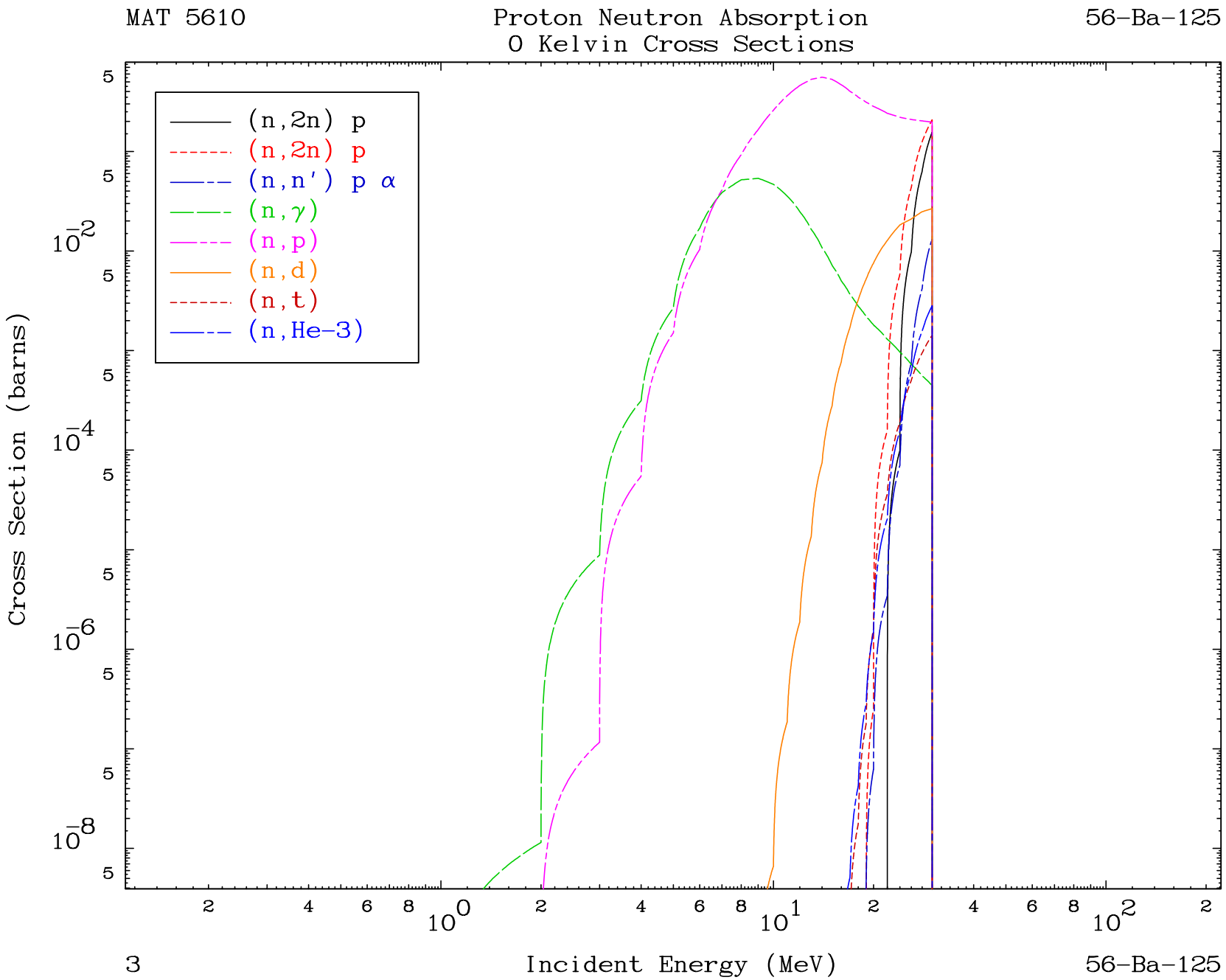
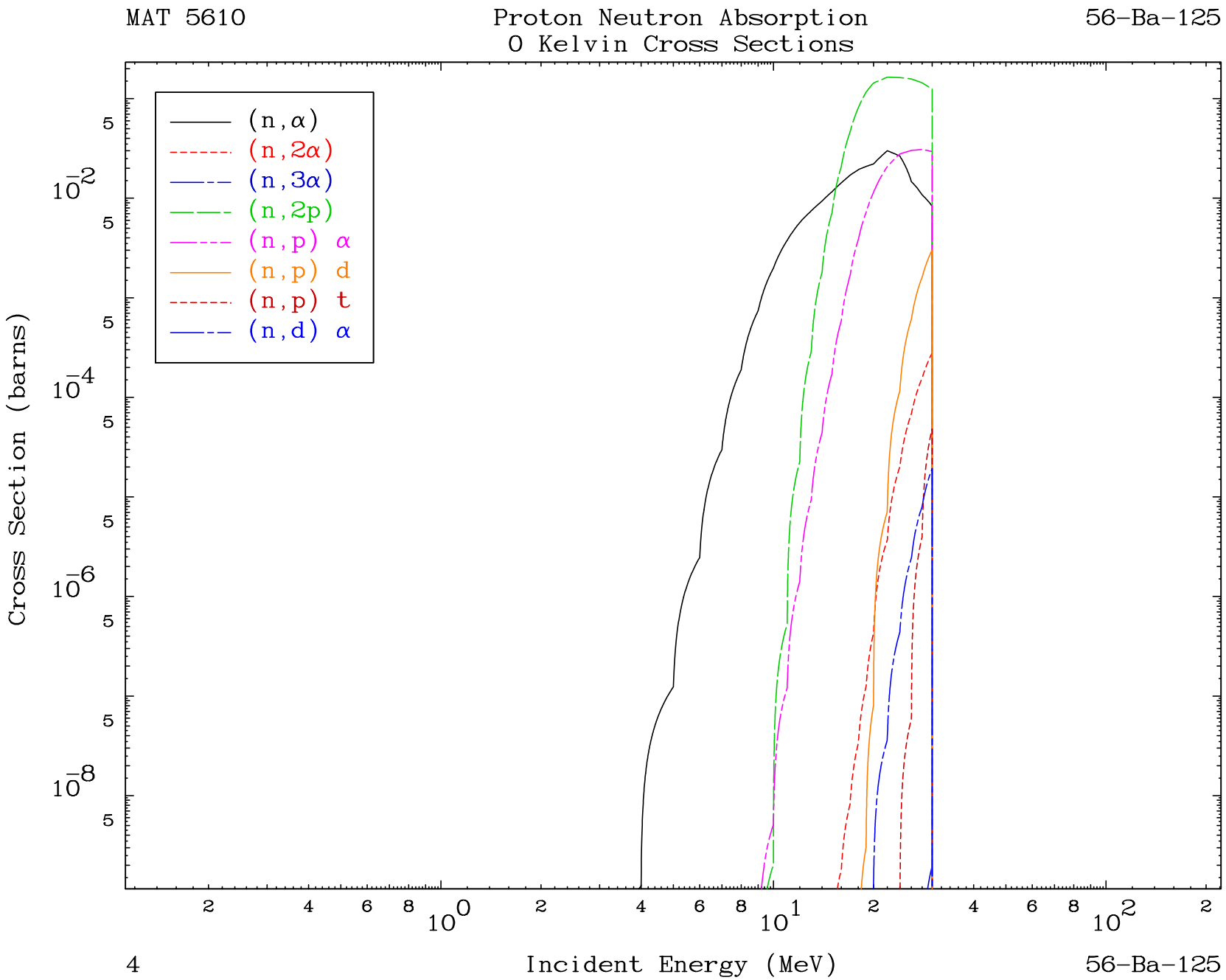
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

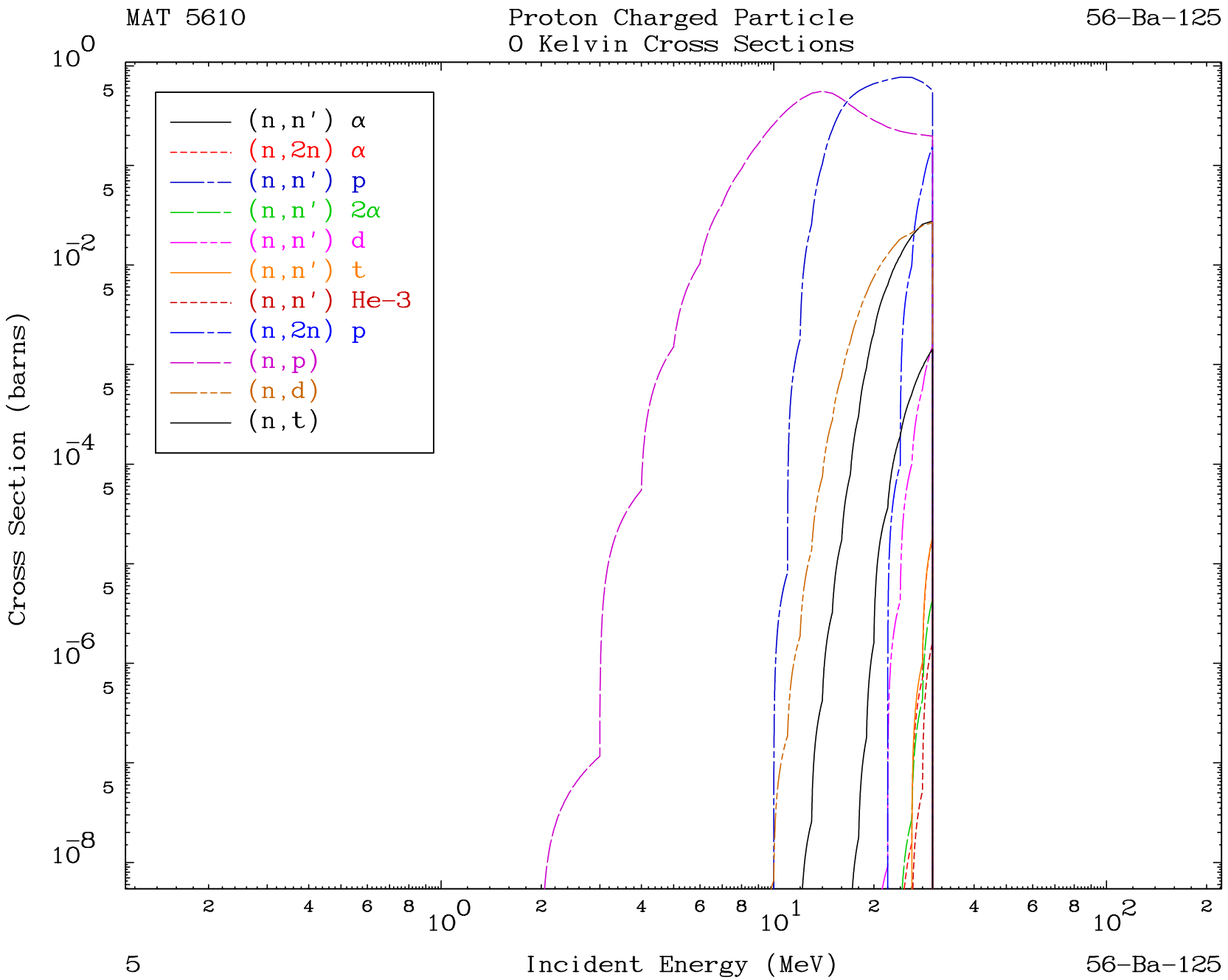
Press Mouse Button to Start

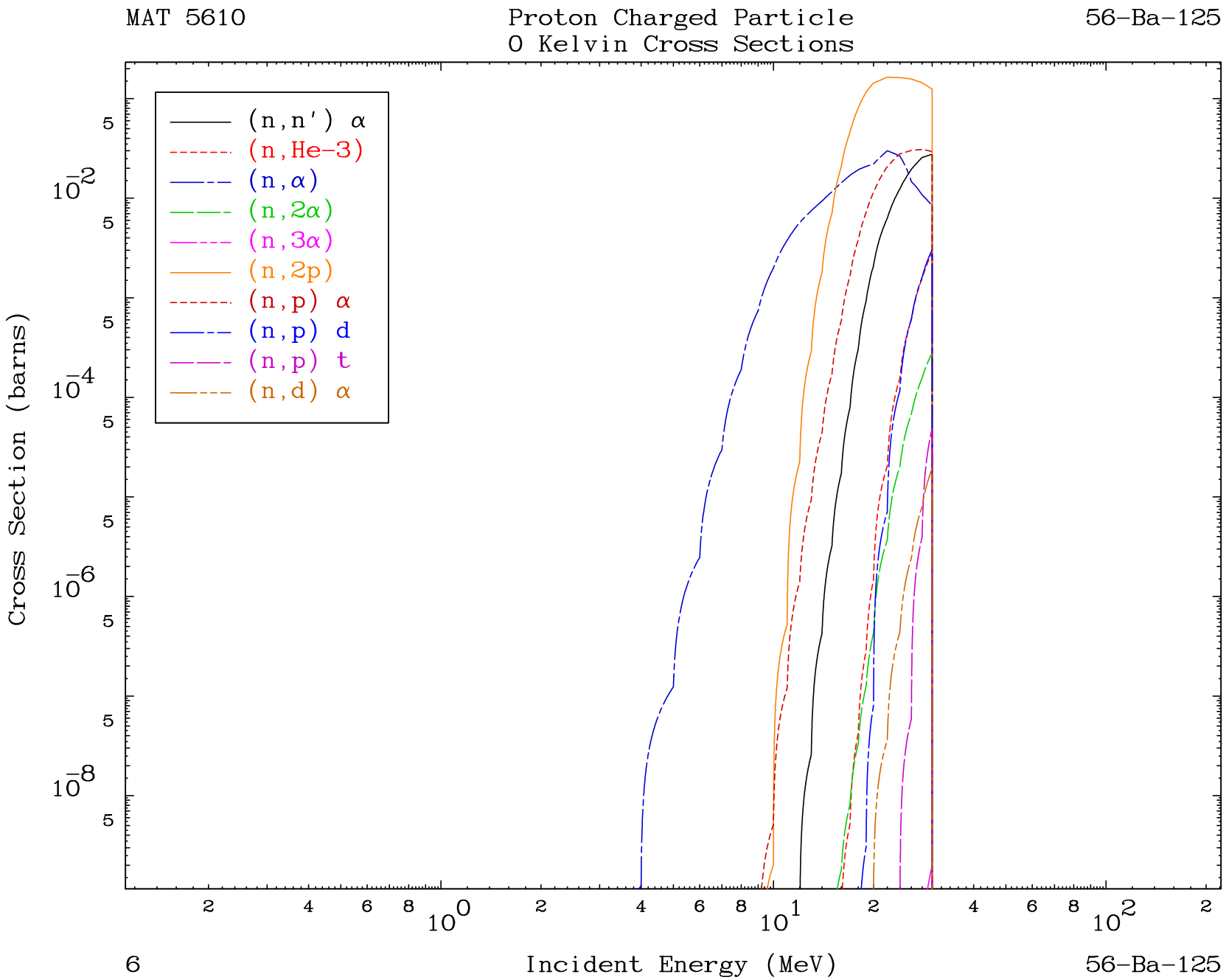

MAT 5610
Proton Major
56-Ba-125
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
56-Ba-125
1

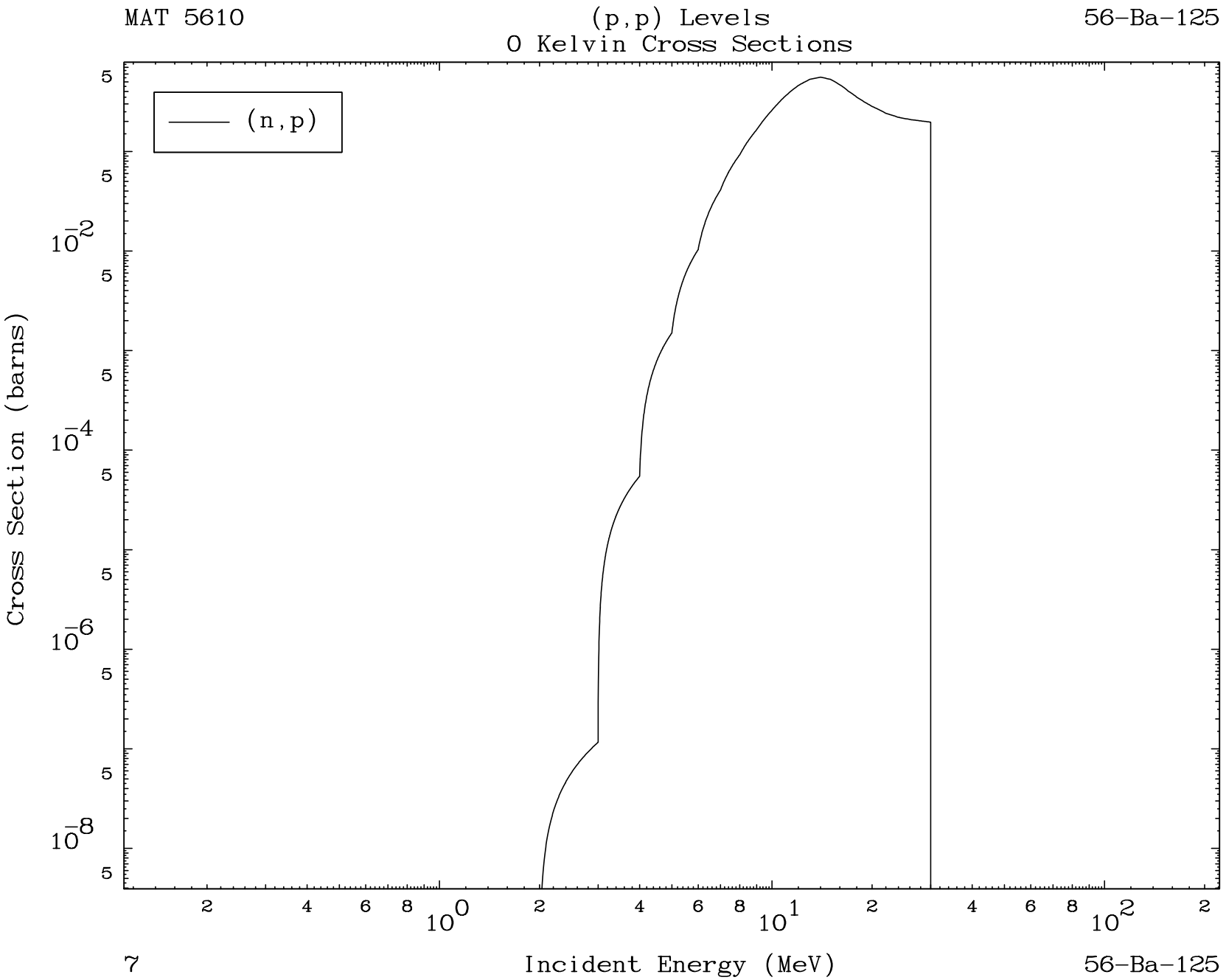

MAT 5610
Proton Neutron Absorption
0 Kelvin Cross Sections
56-Ba-125
Cross Section (barns)
Incident Energy (MeV)
56-Ba-125
(n,2n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3

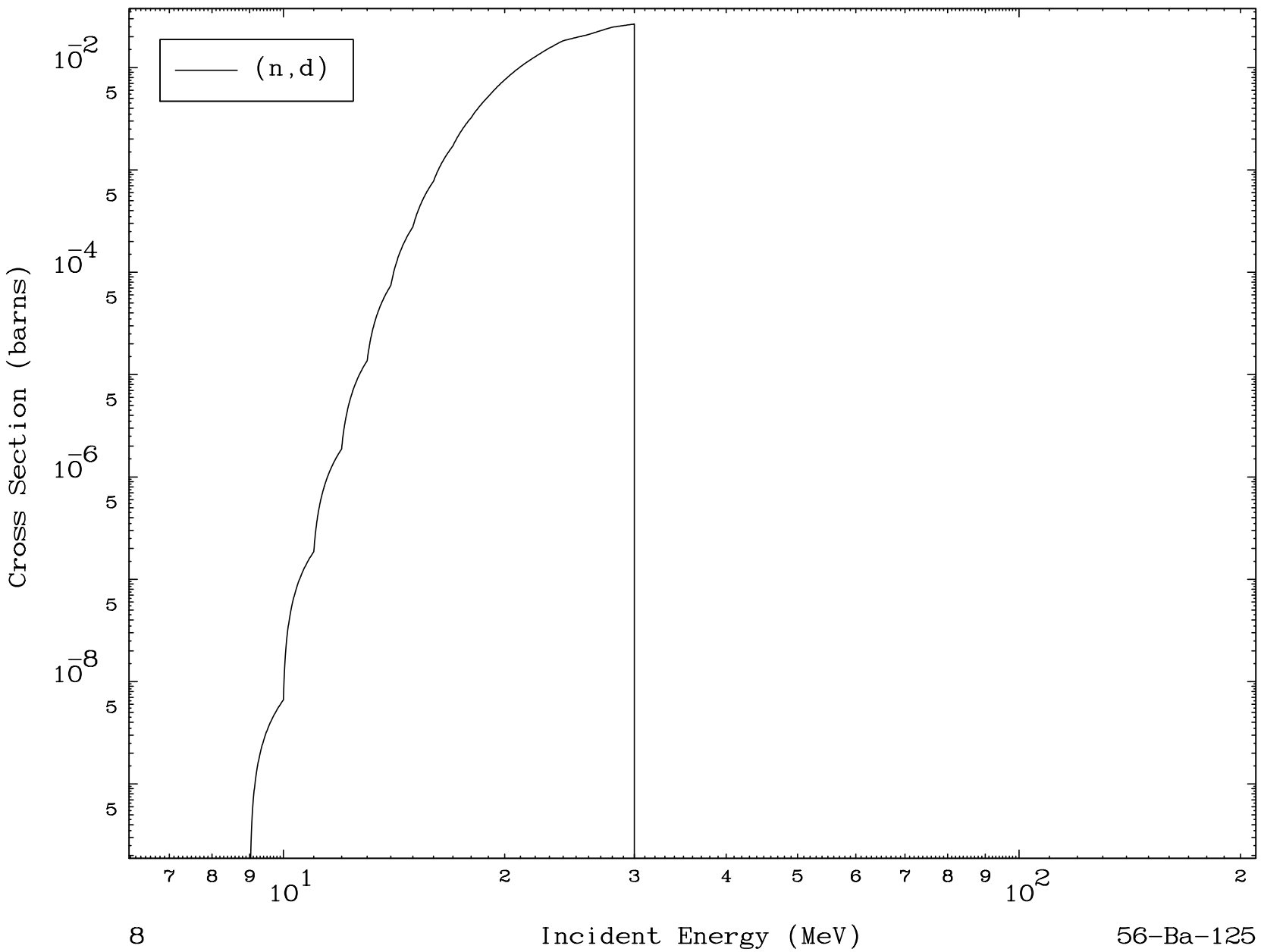

MAT 5610
Proton Neutron Absorption
0 Kelvin Cross Sections
56-Ba-125
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
3
56-Ba-125

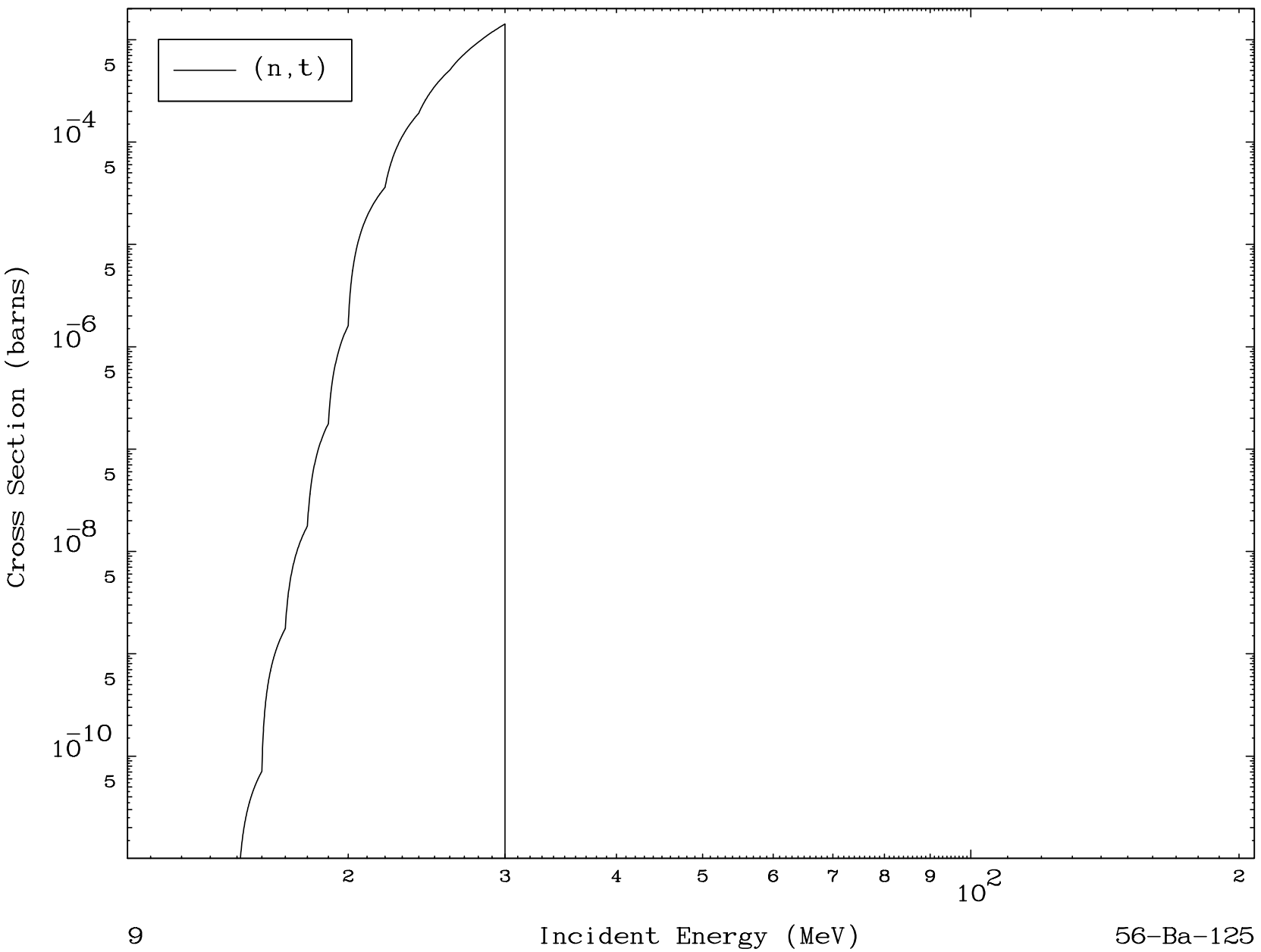

MAT 5610
Proton Neutron Absorption
0 Kelvin Cross Sections
56-Ba-125
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
56-Ba-125

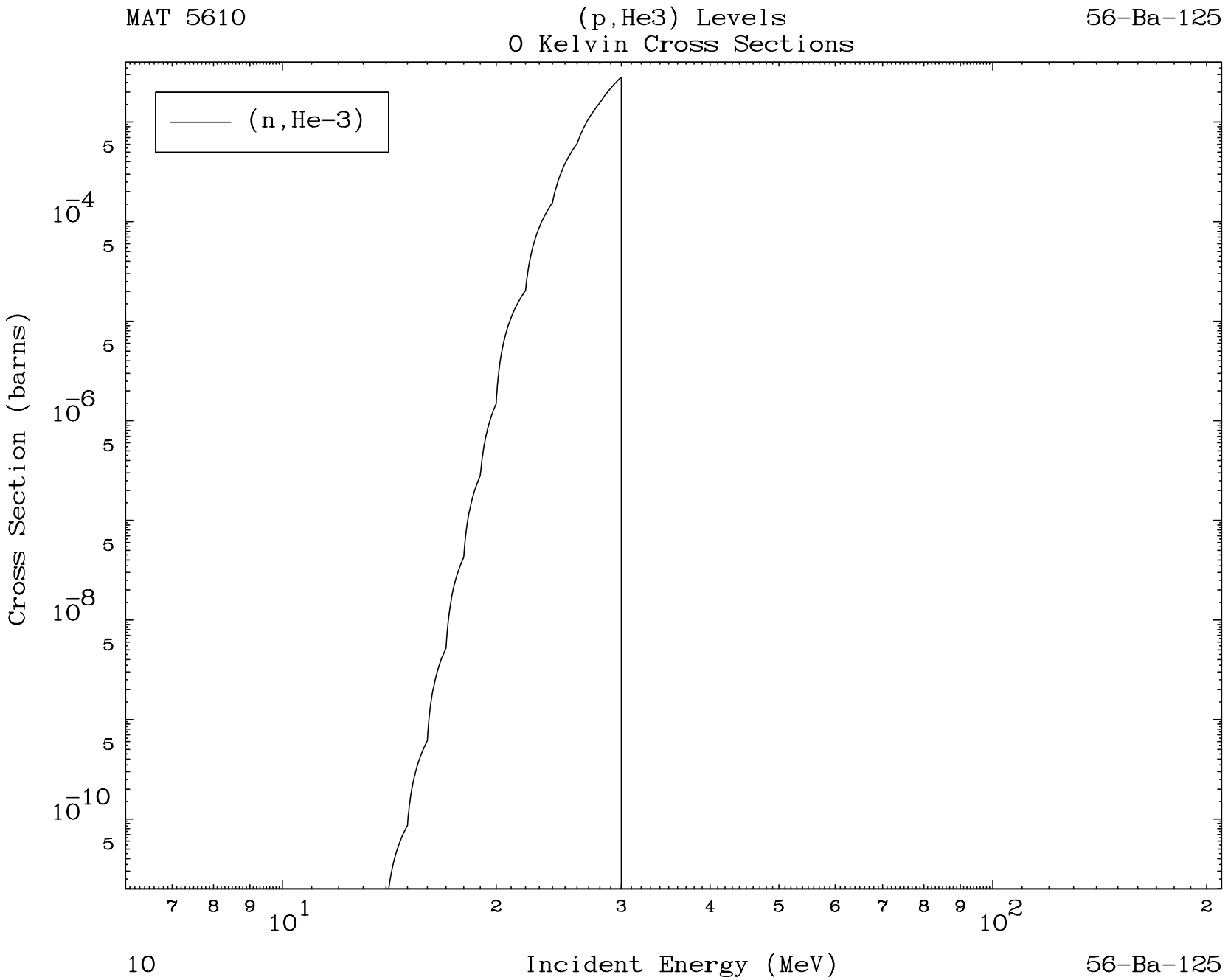

MAT 5610
Proton Charged Particle
0 Kelvin Cross Sections
56-Ba-125
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
56-Ba-125

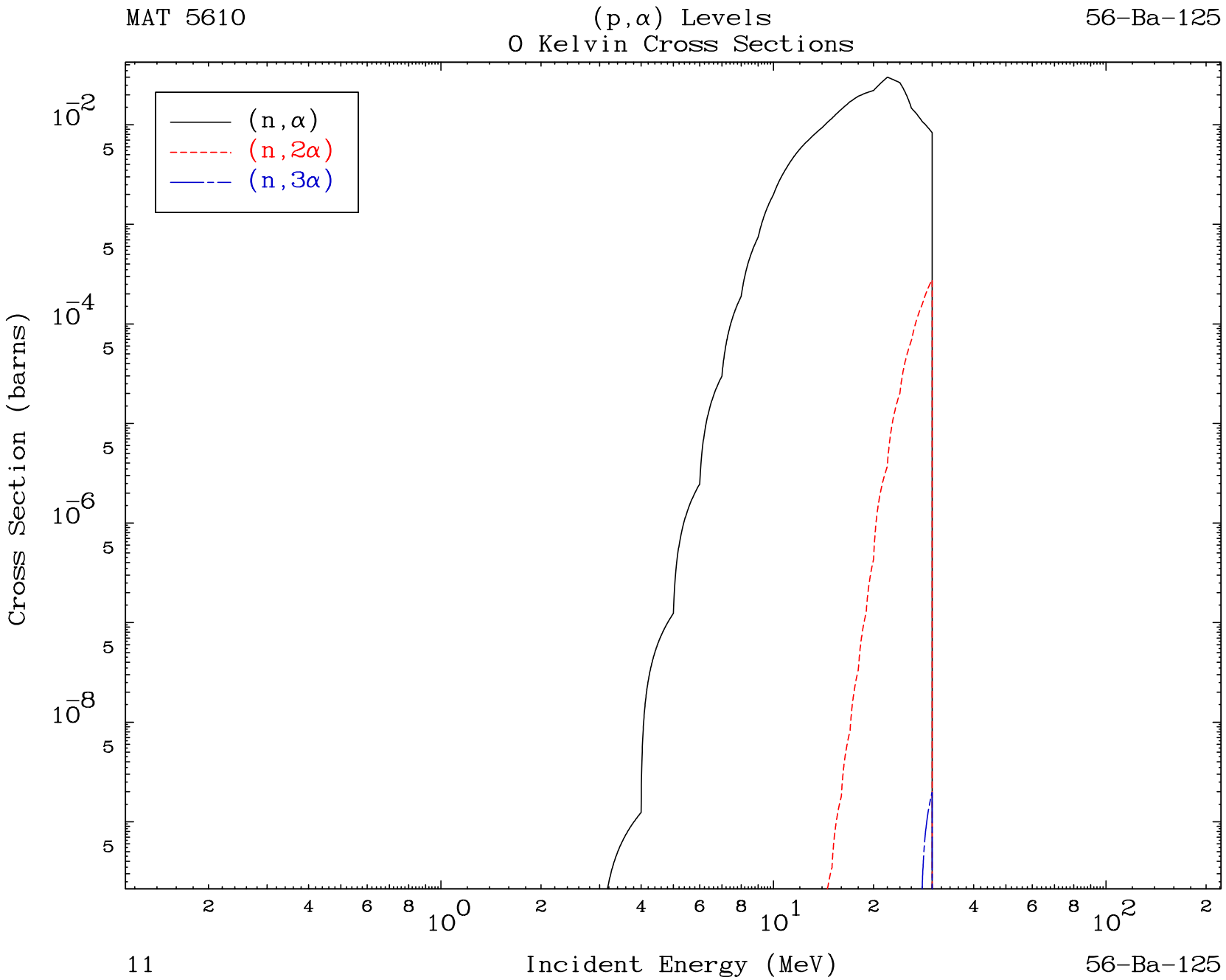

MAT 5610
Proton Charged Particle
0 Kelvin Cross Sections
56-Ba-125
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
6
56-Ba-125

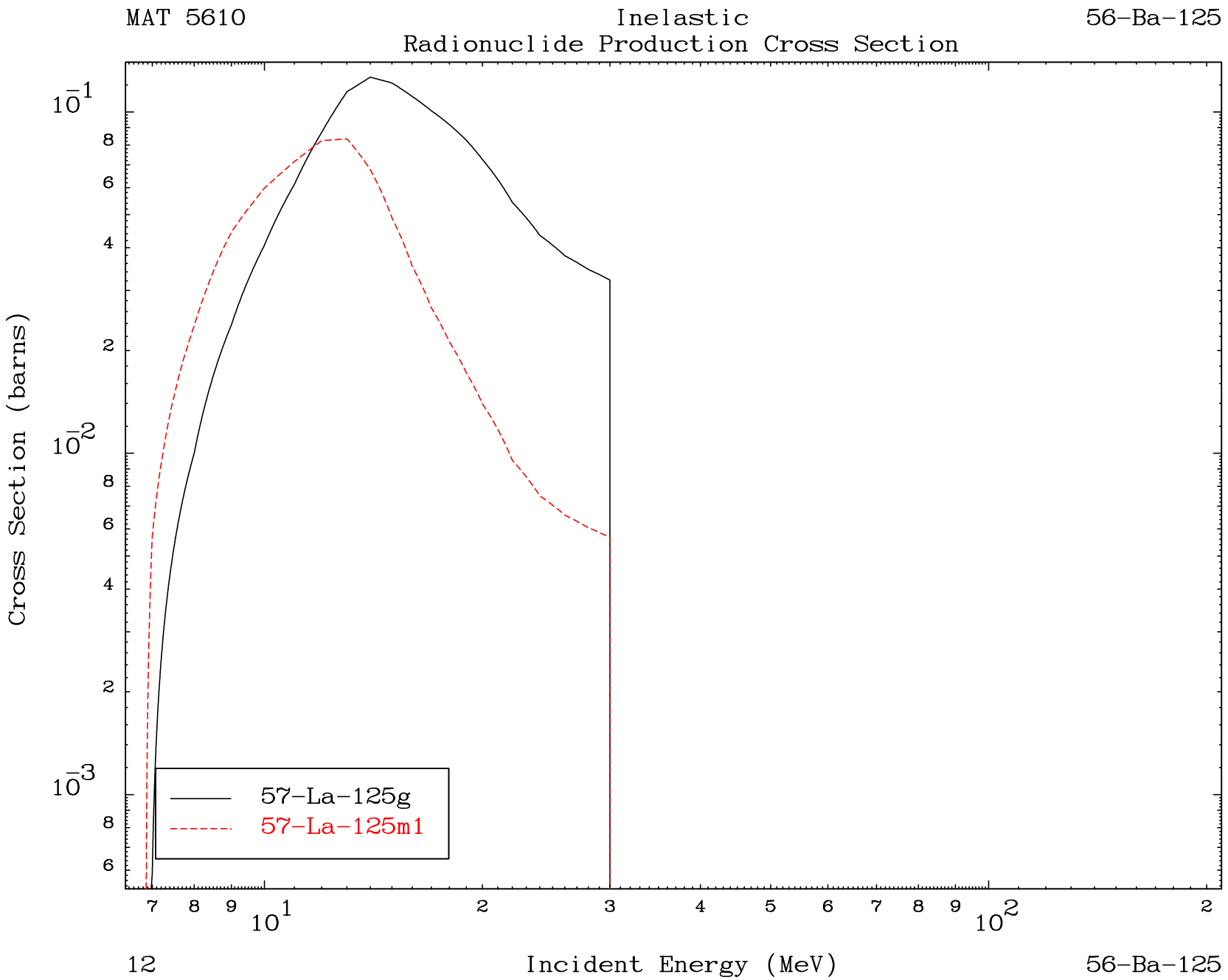

MAT 5610
(p,p) Levels
56-Ba-125
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
56-Ba-125

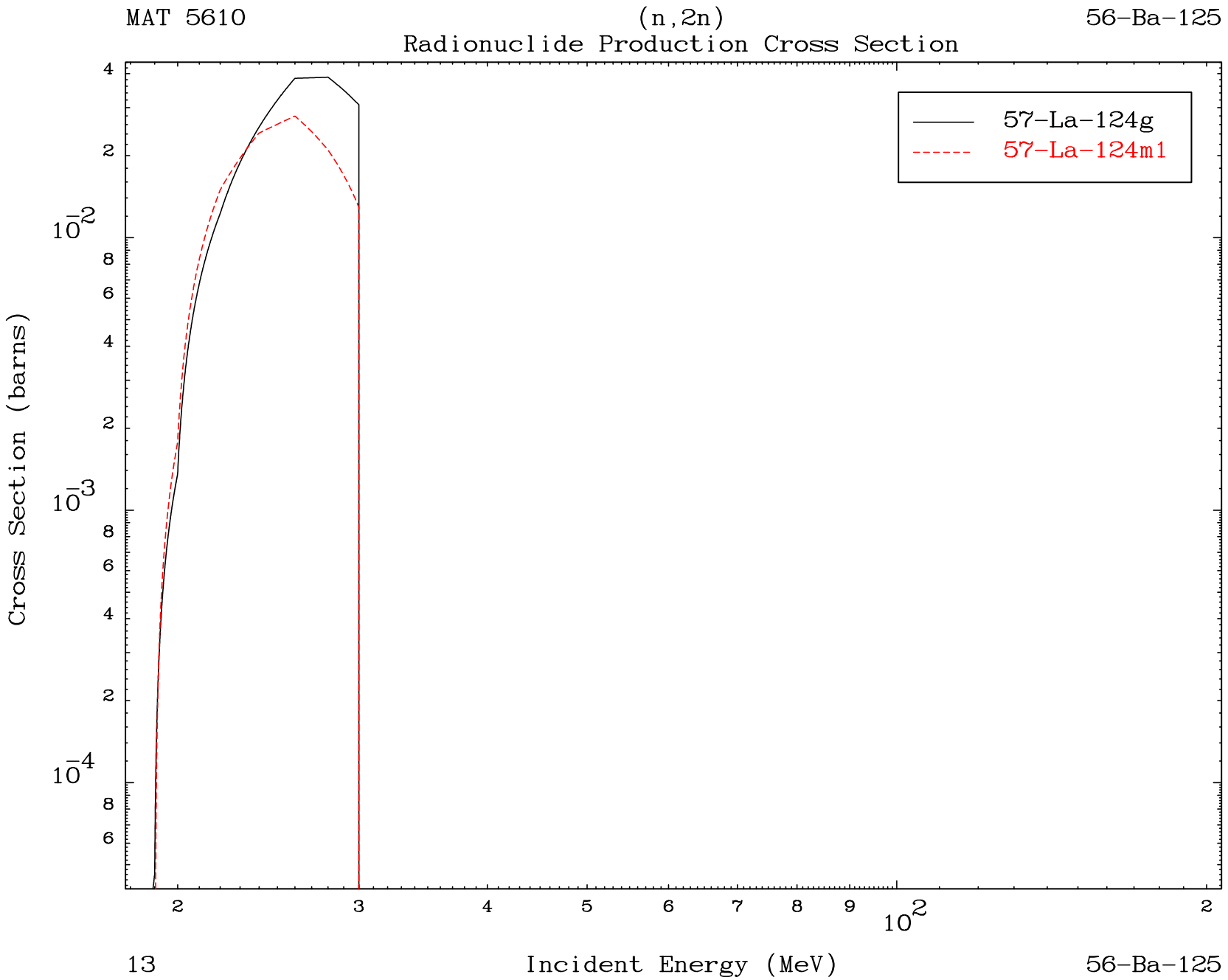

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

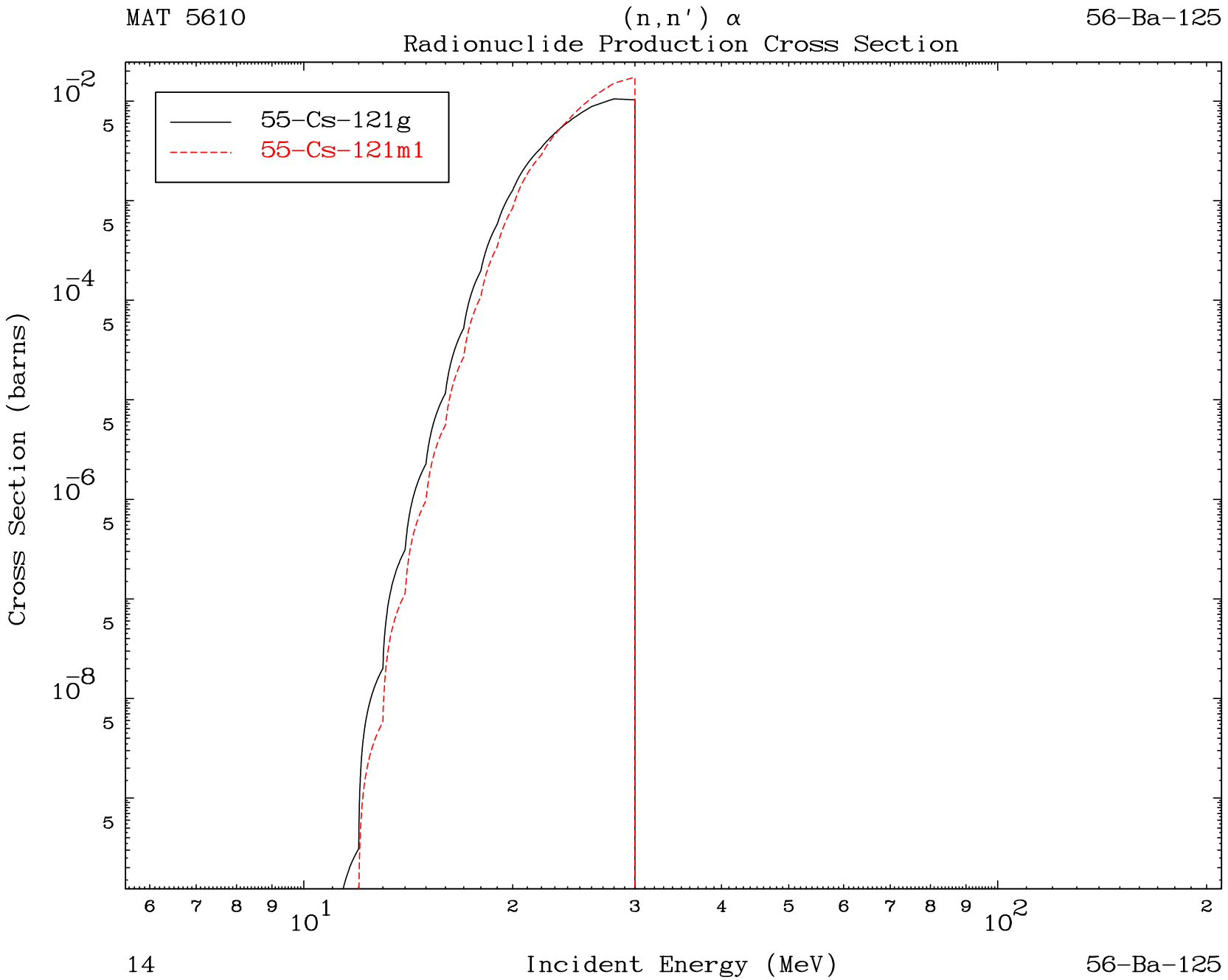

0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)

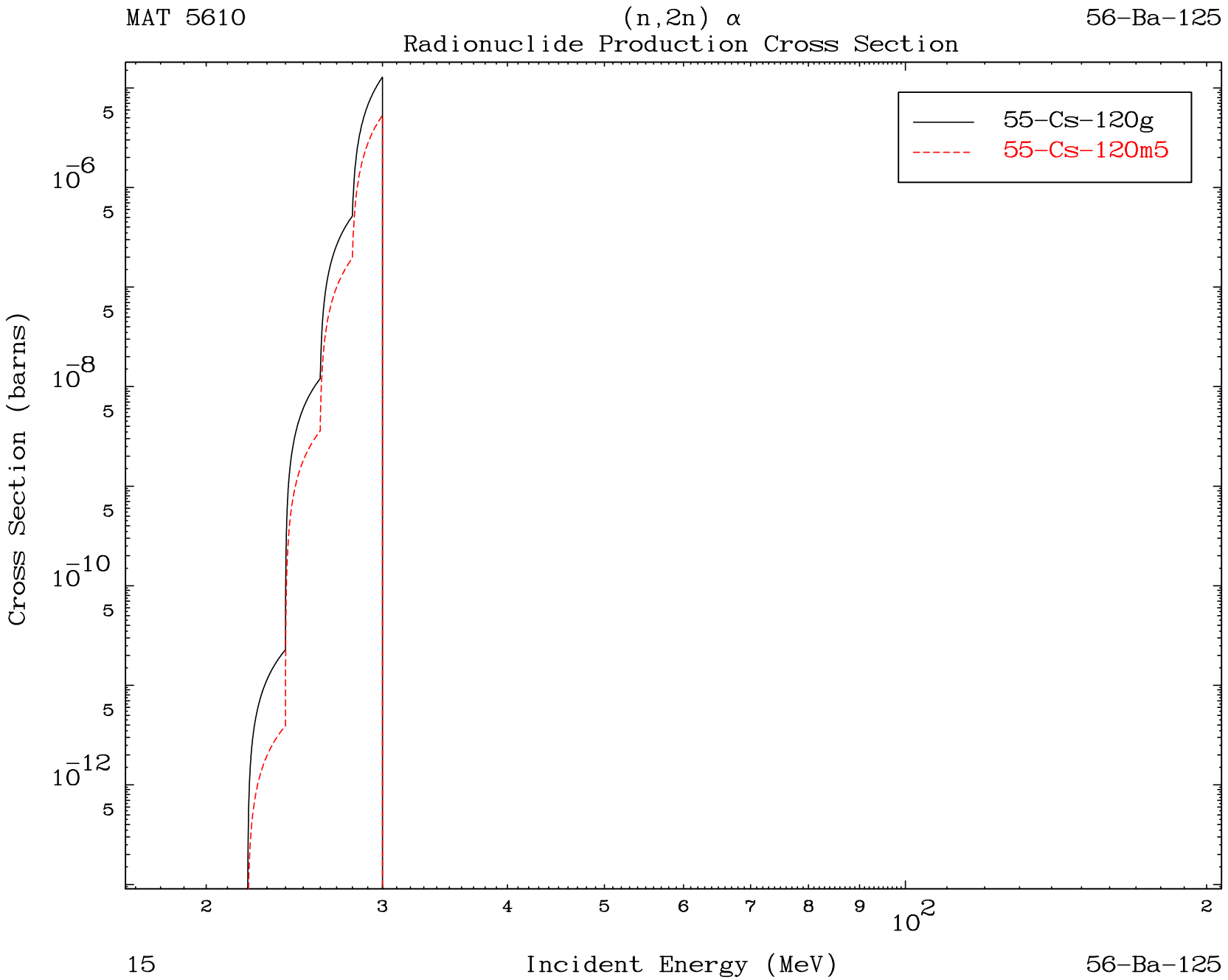

MAT 5610
(p,He3) Levels
56-Ba-125
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
10
Incident Energy (MeV)
56-Ba-125

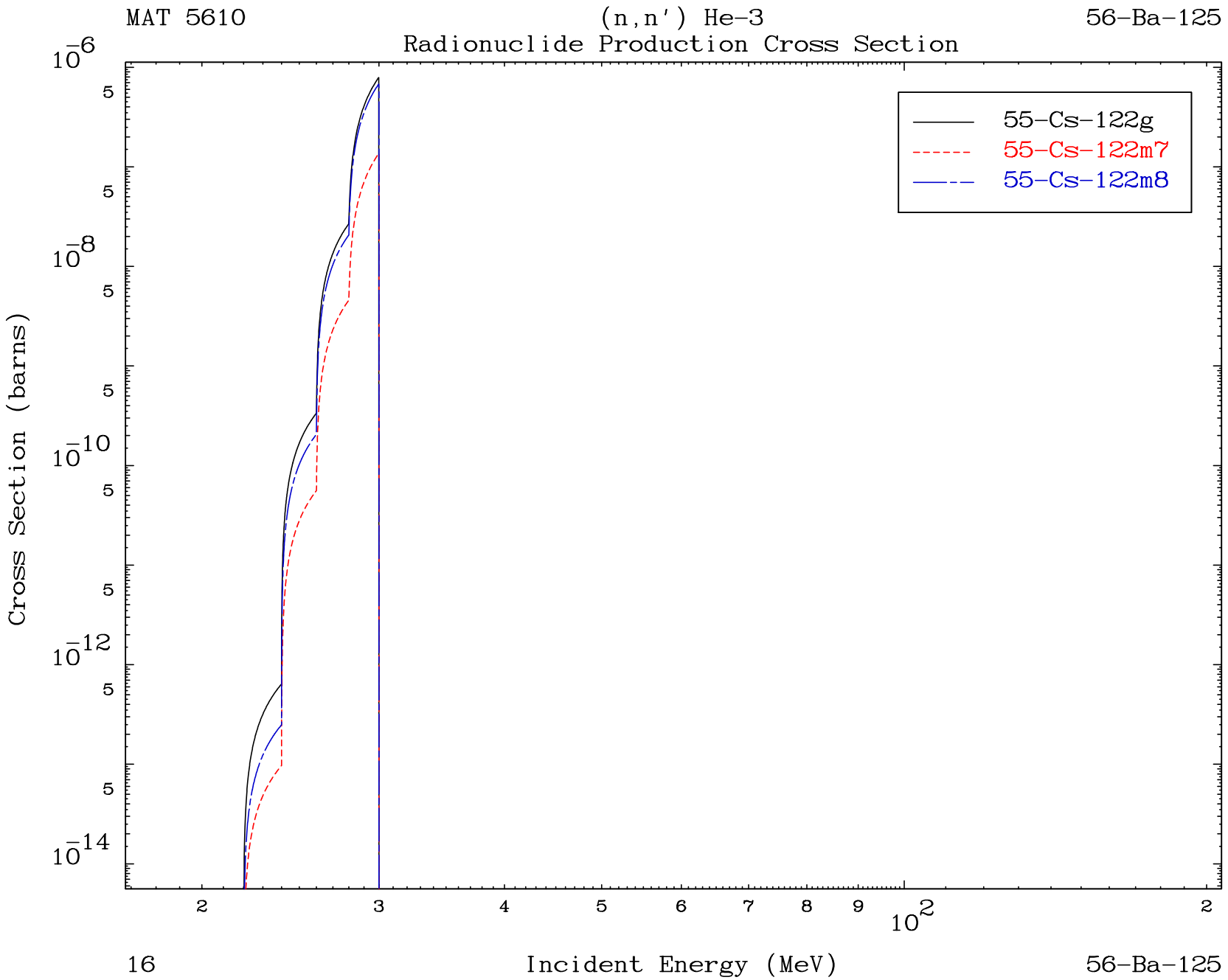

MAT 5610
(p,α) Levels
56-Ba-125
0 Kelvin Cross Sections
(n,α)
(n,2α)
(n,3α)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
100
101
102
2
4
6
8
Incident Energy (MeV)
11
56-Ba-125

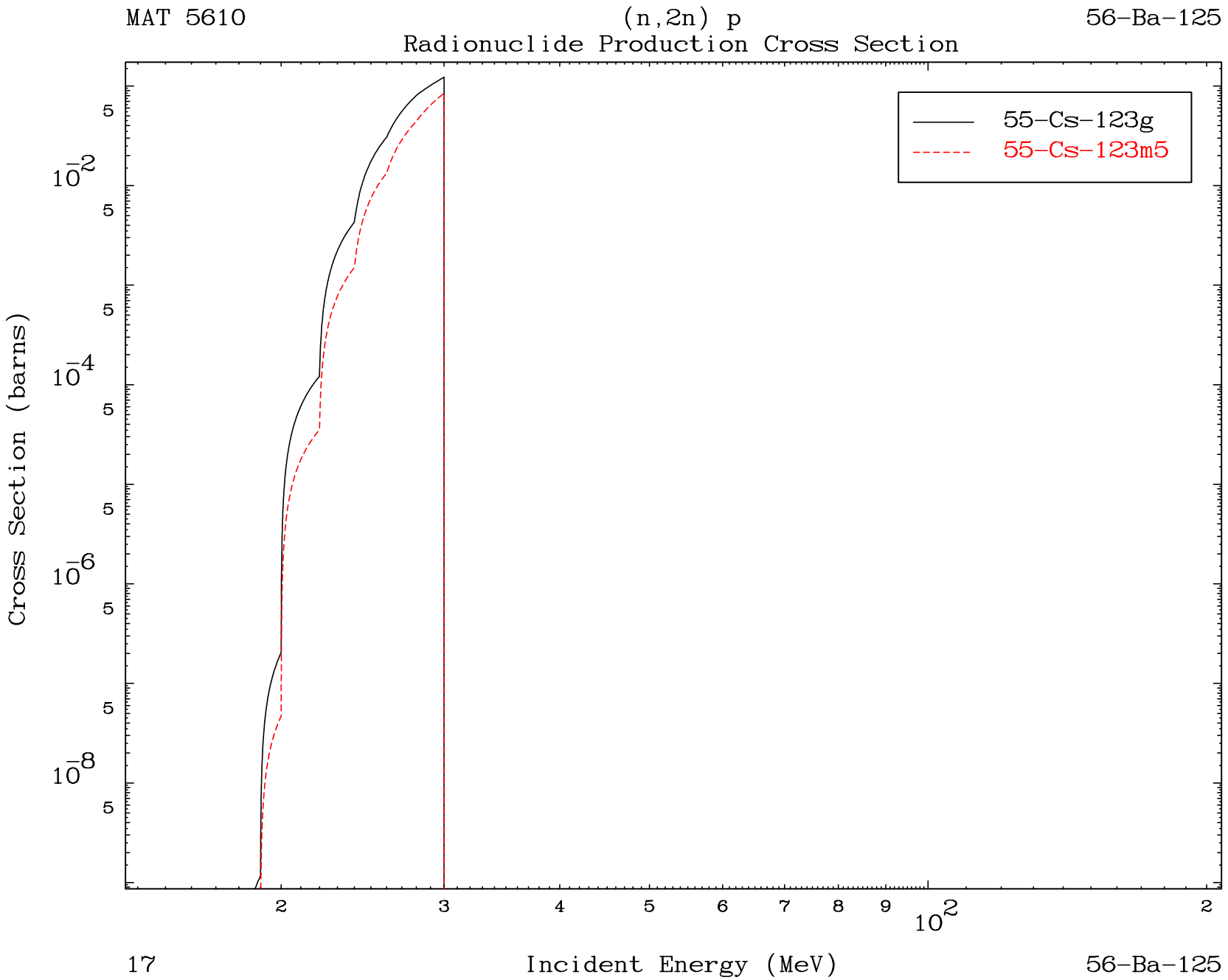

MAT 5610
Inelastic
56-Ba-125
Radionuclide Production Cross Section
Cross Section (barns)
10-1
8
6
4
2
10-2
8
6
4
2
10-3
8
6
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
57-La-125g
57-La-125m1
12
Incident Energy (MeV)
56-Ba-125

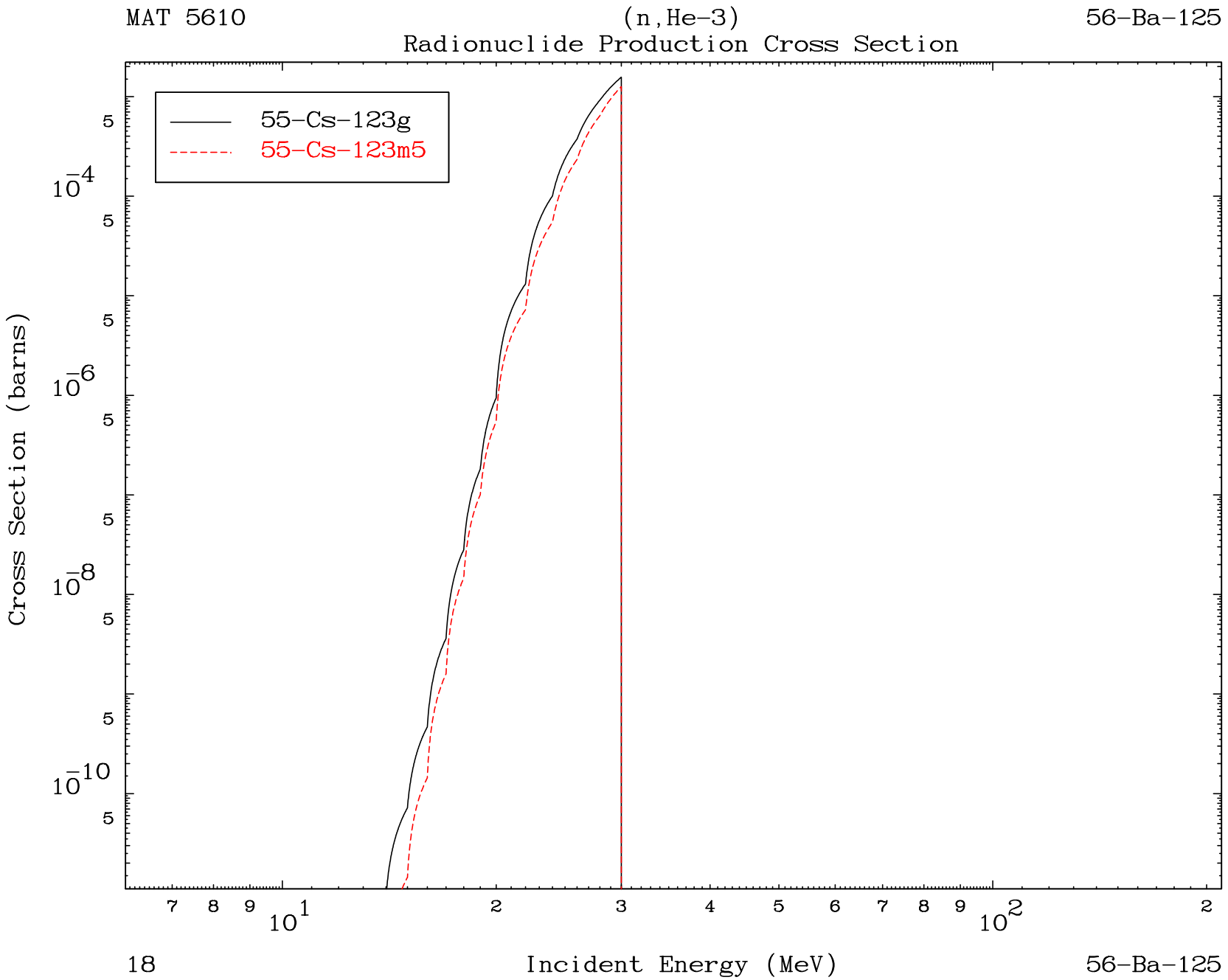

MAT 5610
(n,2n)
56-Ba-125
Radionuclide Production Cross Section
57-La-124g
57-La-124m1
Cross Section (barns)
Incident Energy (MeV)
13
56-Ba-125

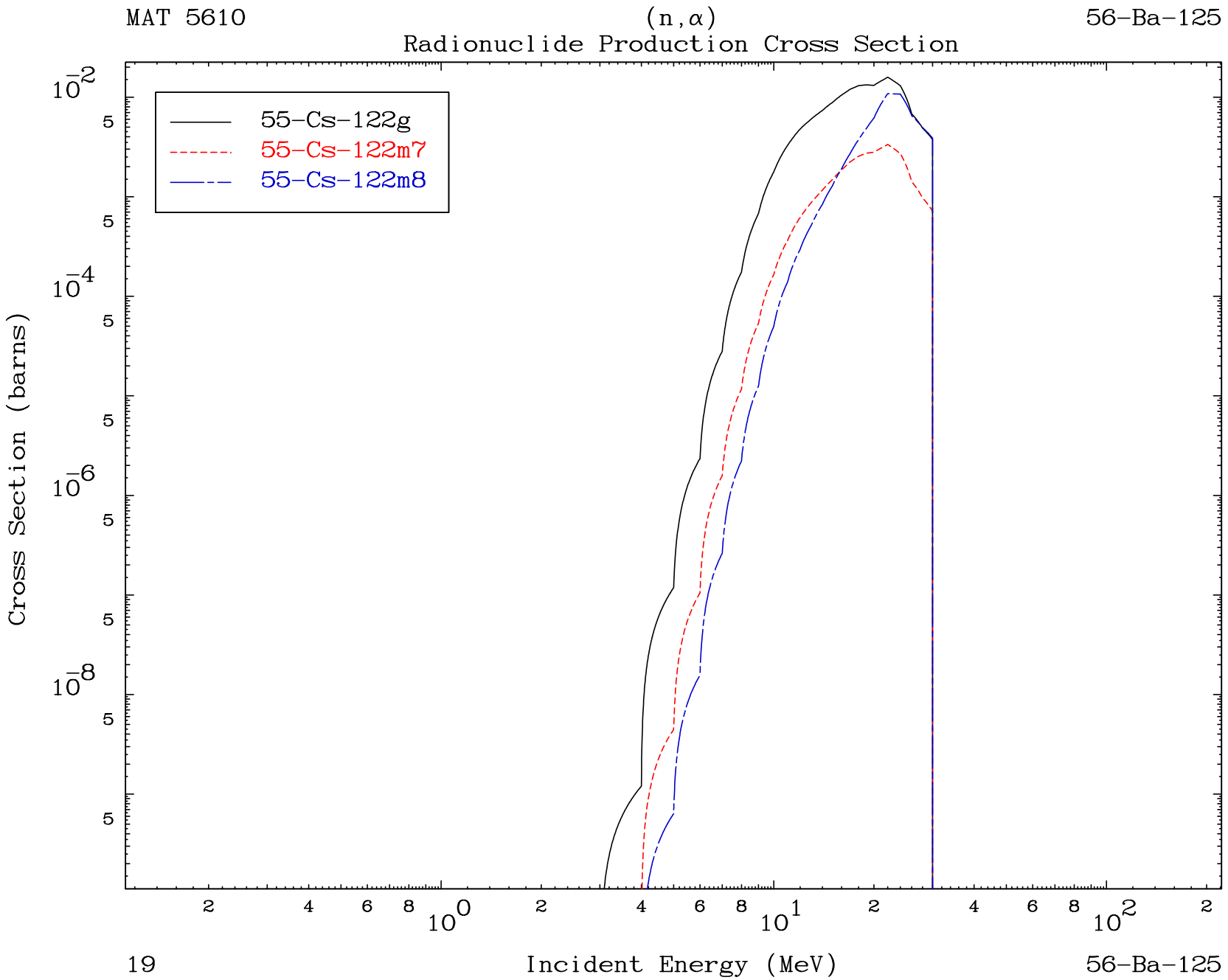

MAT 5610
(n,n') α
56-Ba-125
Radionuclide Production Cross Section
55-Cs-121g
55-Cs-121m1
Cross Section (barns)
Incident Energy (MeV)
14
56-Ba-125

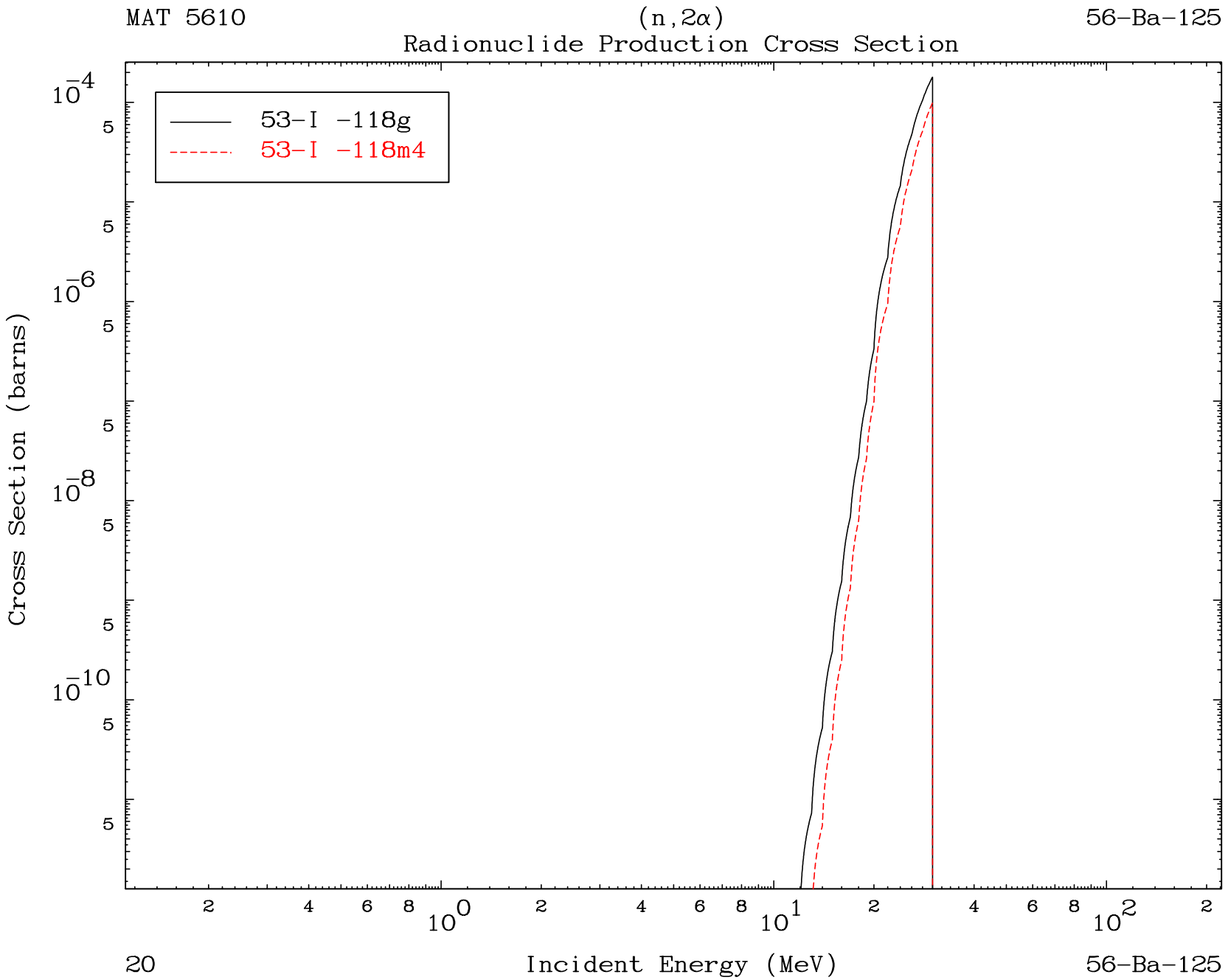

MAT 5610
(n,2n) α
56-Ba-125
Radionuclide Production Cross Section
55-Cs-120g
55-Cs-120m5
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
15
Incident Energy (MeV)
56-Ba-125

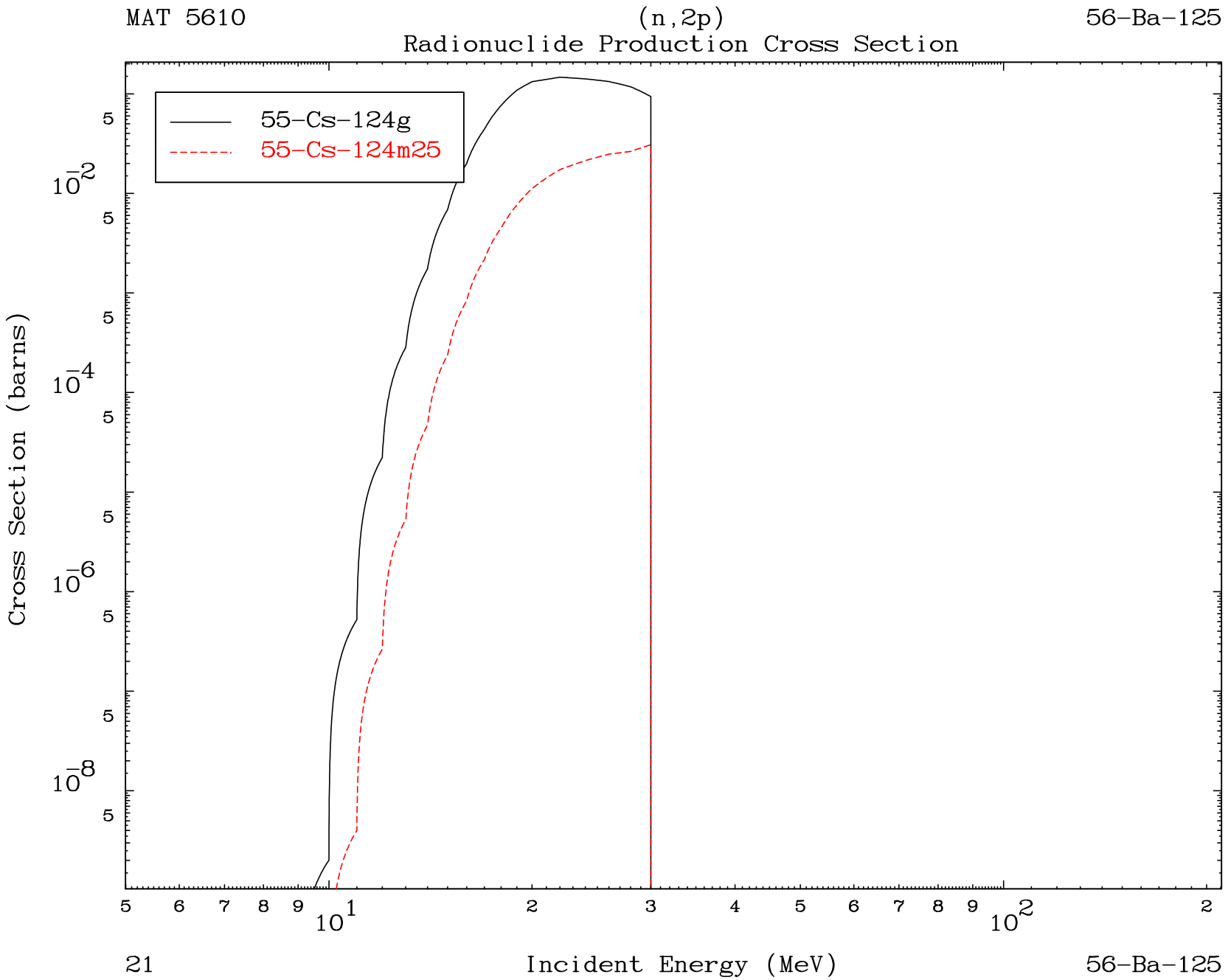

MAT 5610
(n,n') He-3
56-Ba-125
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
10-14
55-Cs-122g
55-Cs-122m7
55-Cs-122m8
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
56-Ba-125

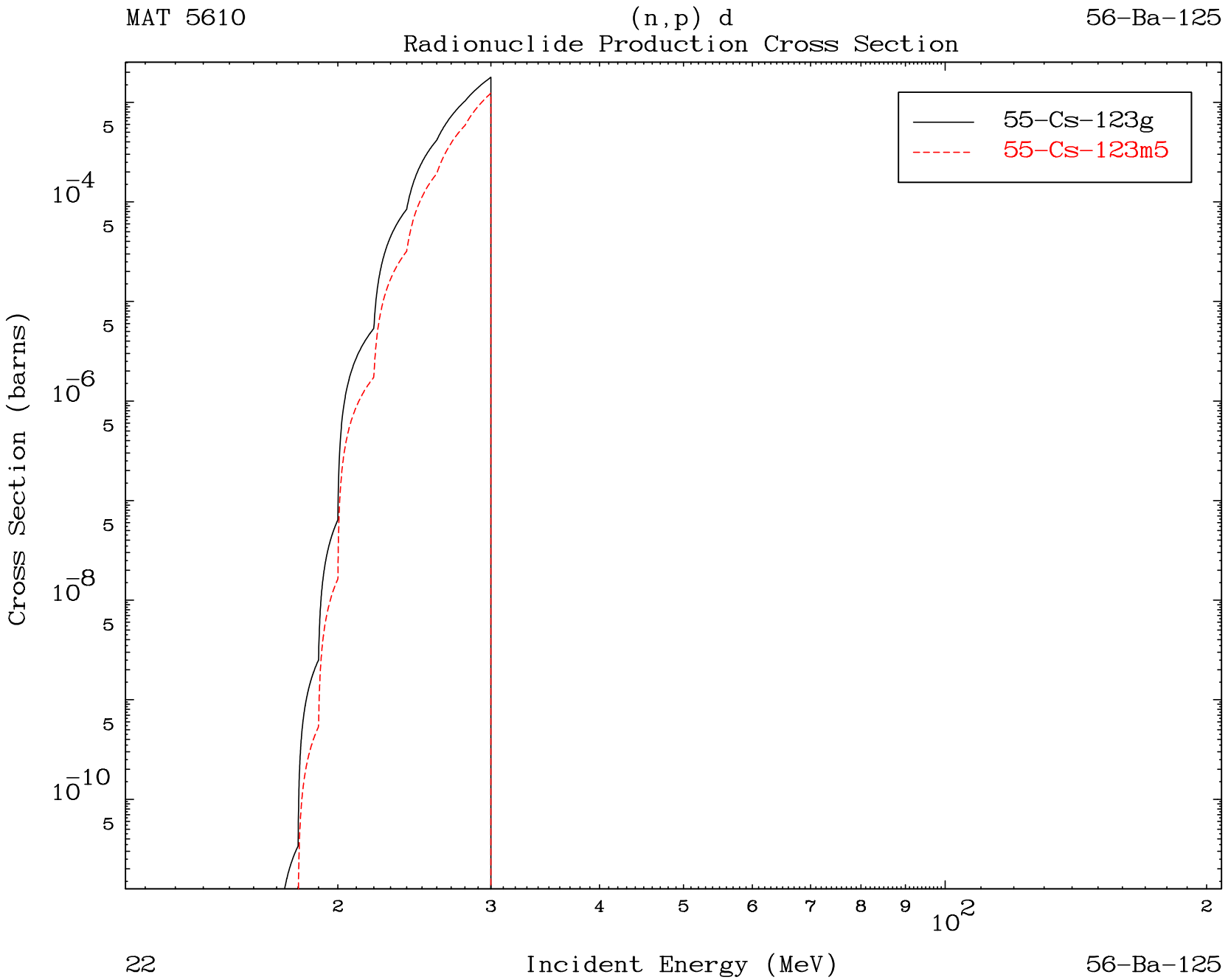

MAT 5610
(n,2n) p
56-Ba-125
Radionuclide Production Cross Section
55-Cs-123g
55-Cs-123m5
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
102
2
17
Incident Energy (MeV)
56-Ba-125

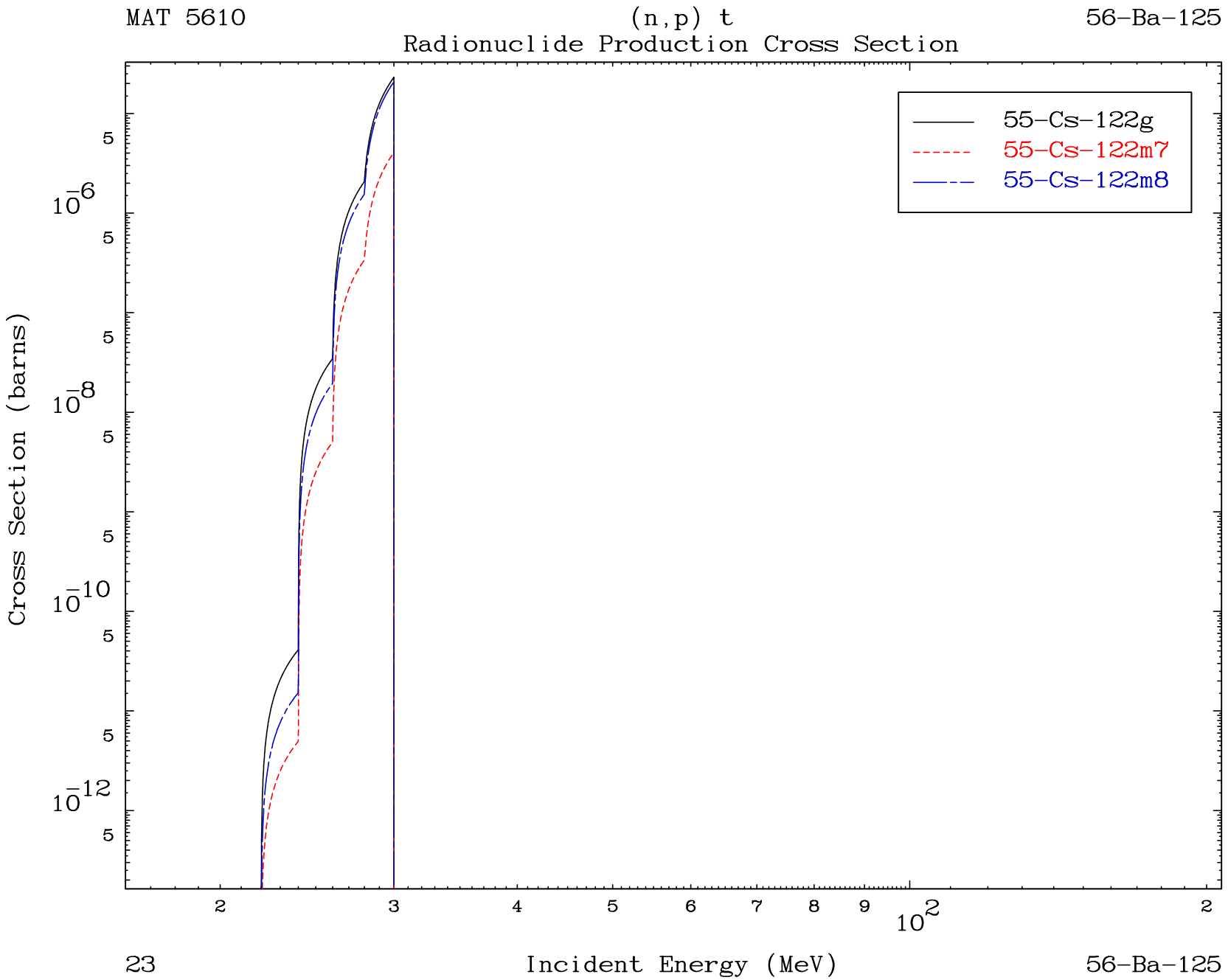

MAT 5610
(n,He-3)
56-Ba-125
Radionuclide Production Cross Section
55-Cs-123g
55-Cs-123m5
Cross Section (barns)
Incident Energy (MeV)
18
56-Ba-125


MAT 5610
(n,α)
56-Ba-125
Radionuclide Production Cross Section
55-Cs-122g
55-Cs-122m7
55-Cs-122m8
Cross Section (barns)
Incident Energy (MeV)
19
56-Ba-125


MAT 5610
(n,2α)
56-Ba-125
Radionuclide Production Cross Section
53-I -118g
53-I -118m4
Cross Section (barns)
Incident Energy (MeV)
20
56-Ba-125


MAT 5610
(n,2p)
56-Ba-125
Radionuclide Production Cross Section
55-Cs-124g
55-Cs-124m25
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6
7
8
9
101
2
3
4
5
6
7
8
9
102
2
21
Incident Energy (MeV)
56-Ba-125


MAT 5610
(n,p) d
56-Ba-125
Radionuclide Production Cross Section
55-Cs-123g
55-Cs-123m5
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
22
Incident Energy (MeV)
56-Ba-125


MAT 5610
(n,p) t
56-Ba-125
Radionuclide Production Cross Section
55-Cs-122g
55-Cs-122m7
55-Cs-122m8
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
23
Incident Energy (MeV)
56-Ba-125