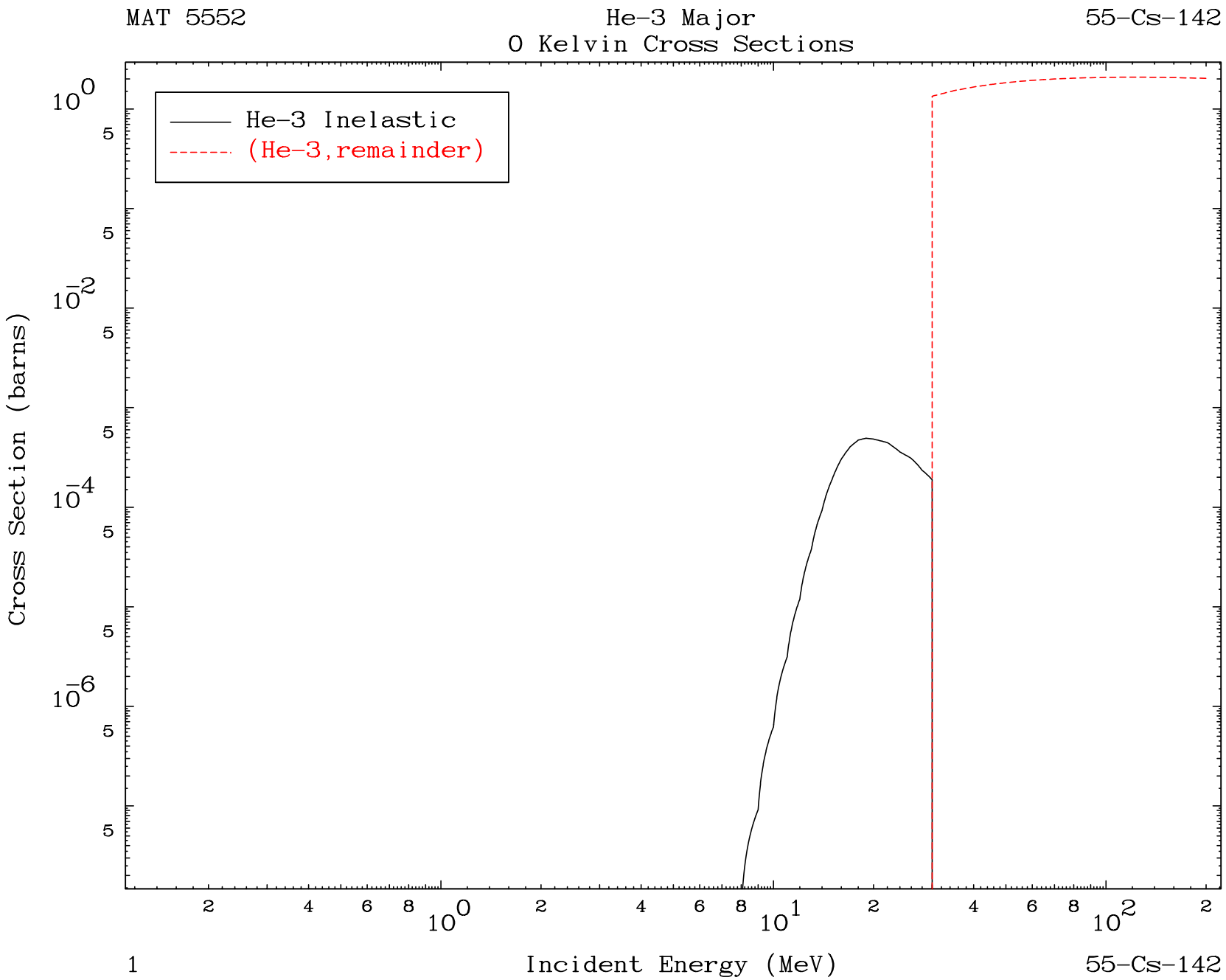
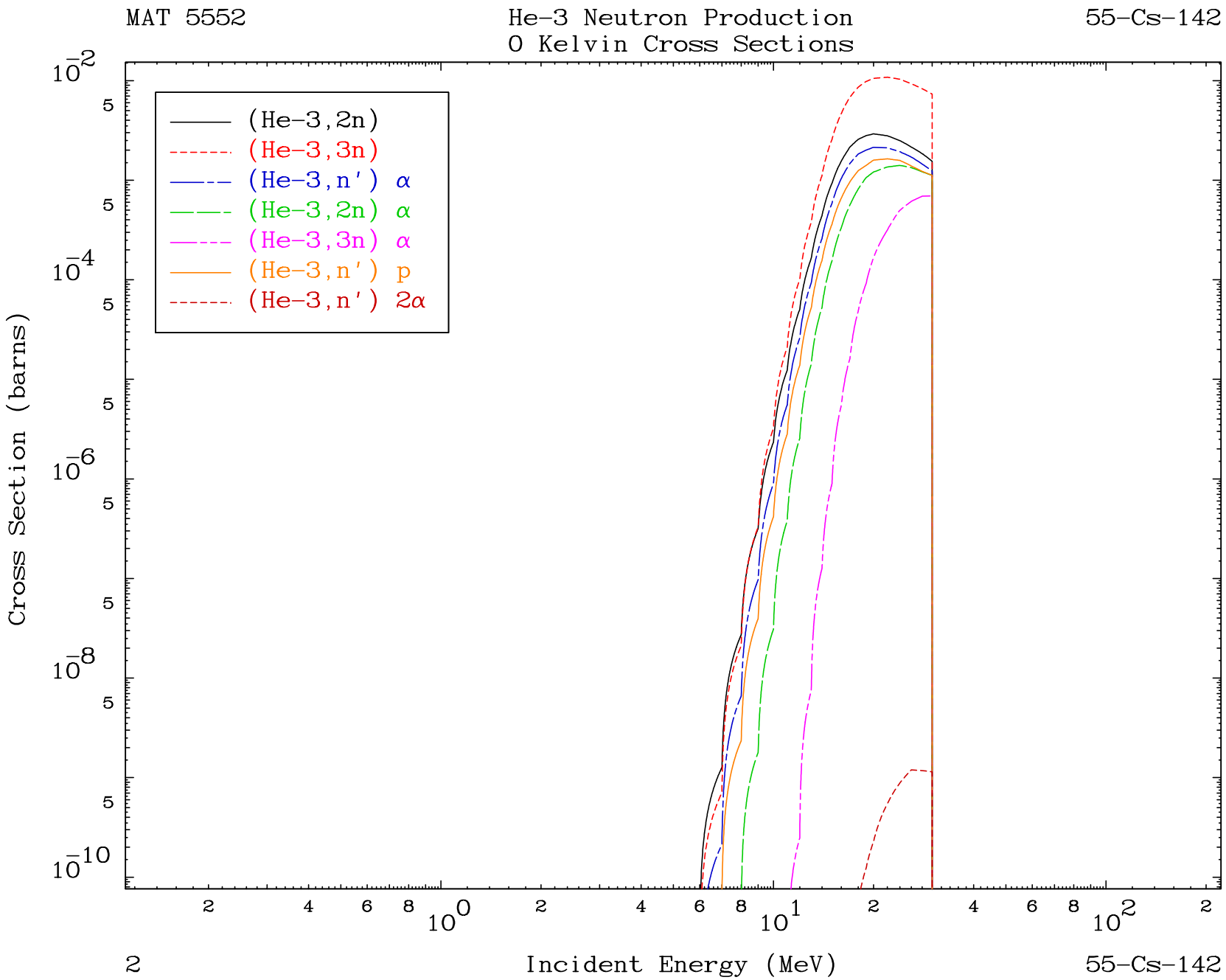
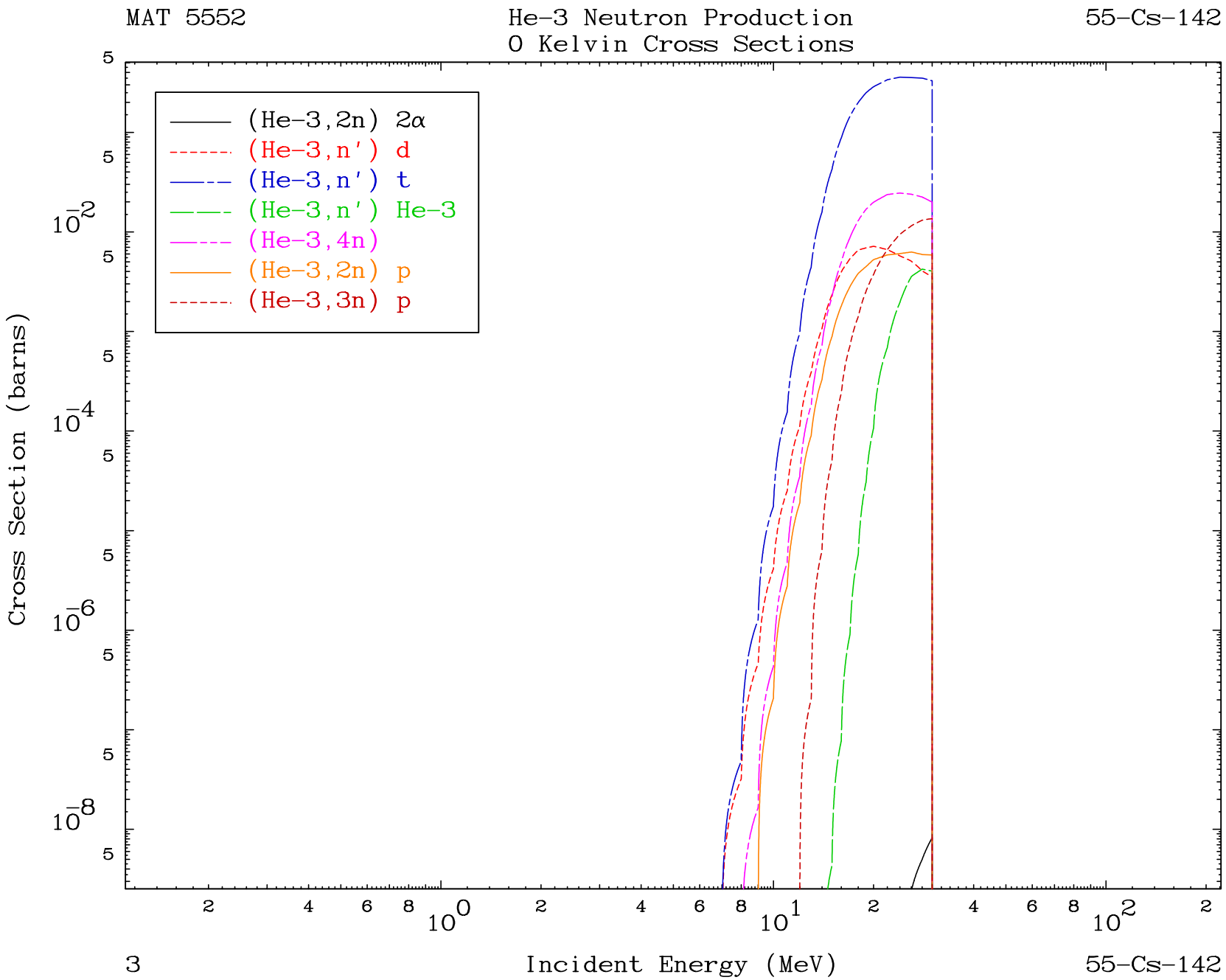
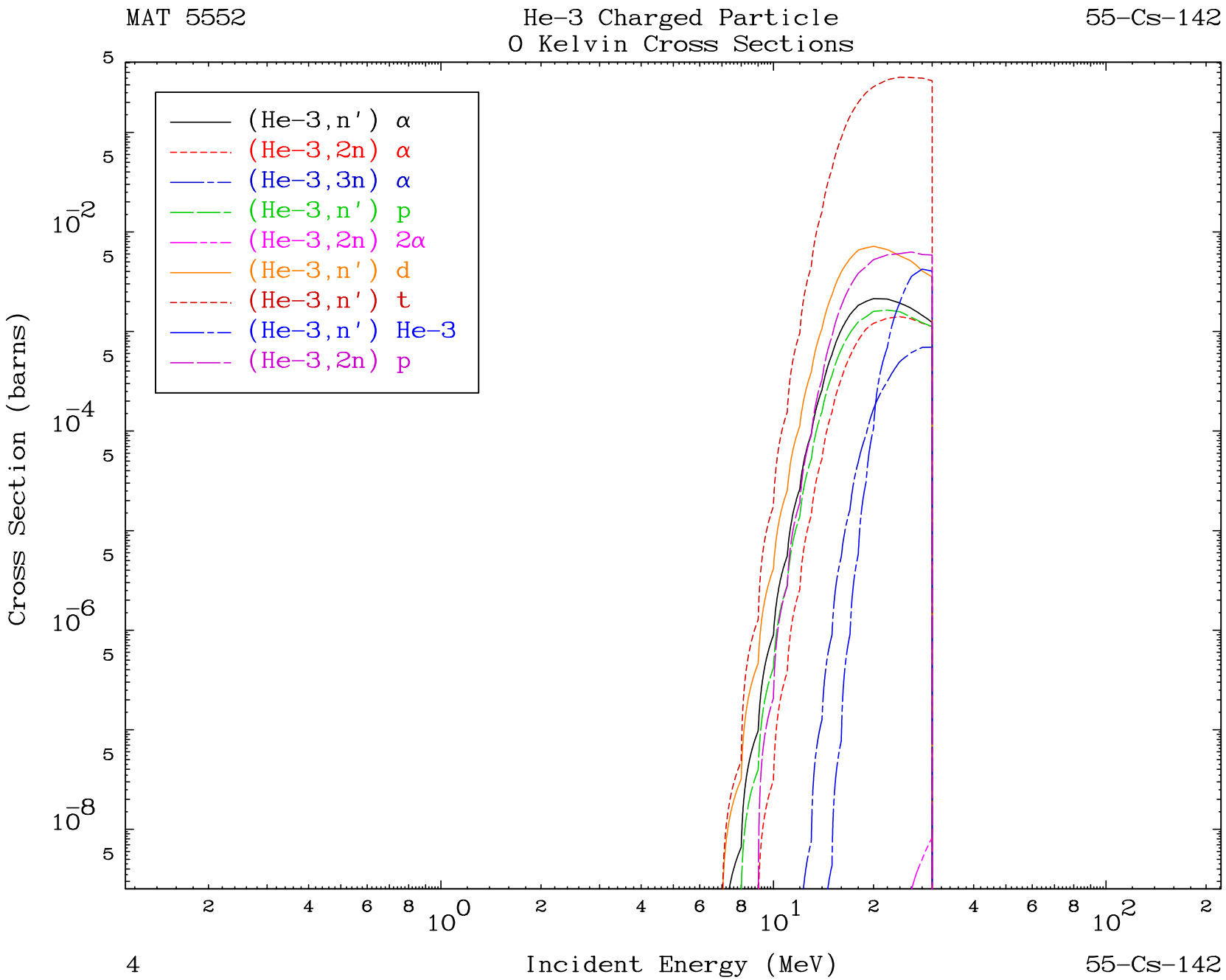
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

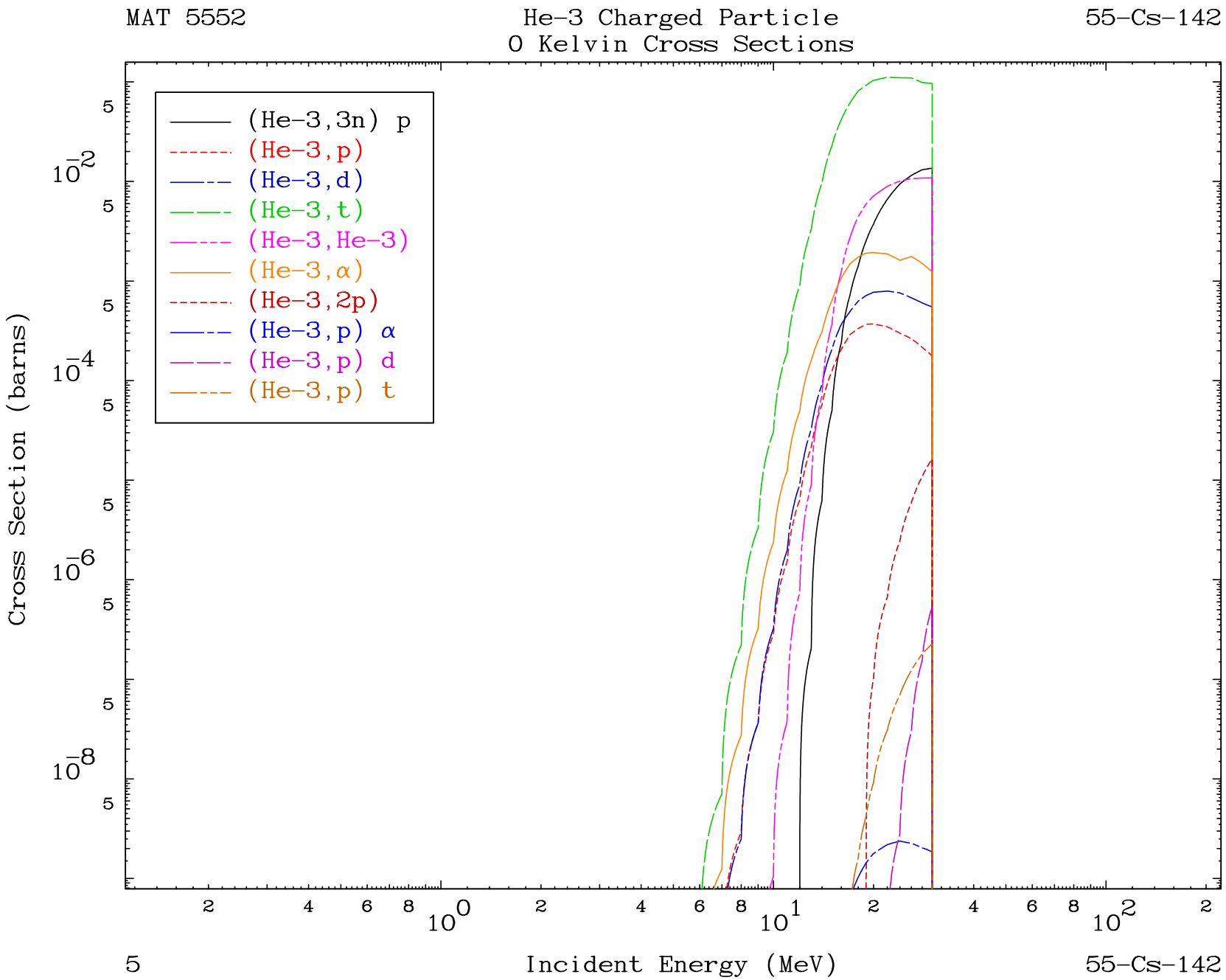
Press Mouse Button to Start

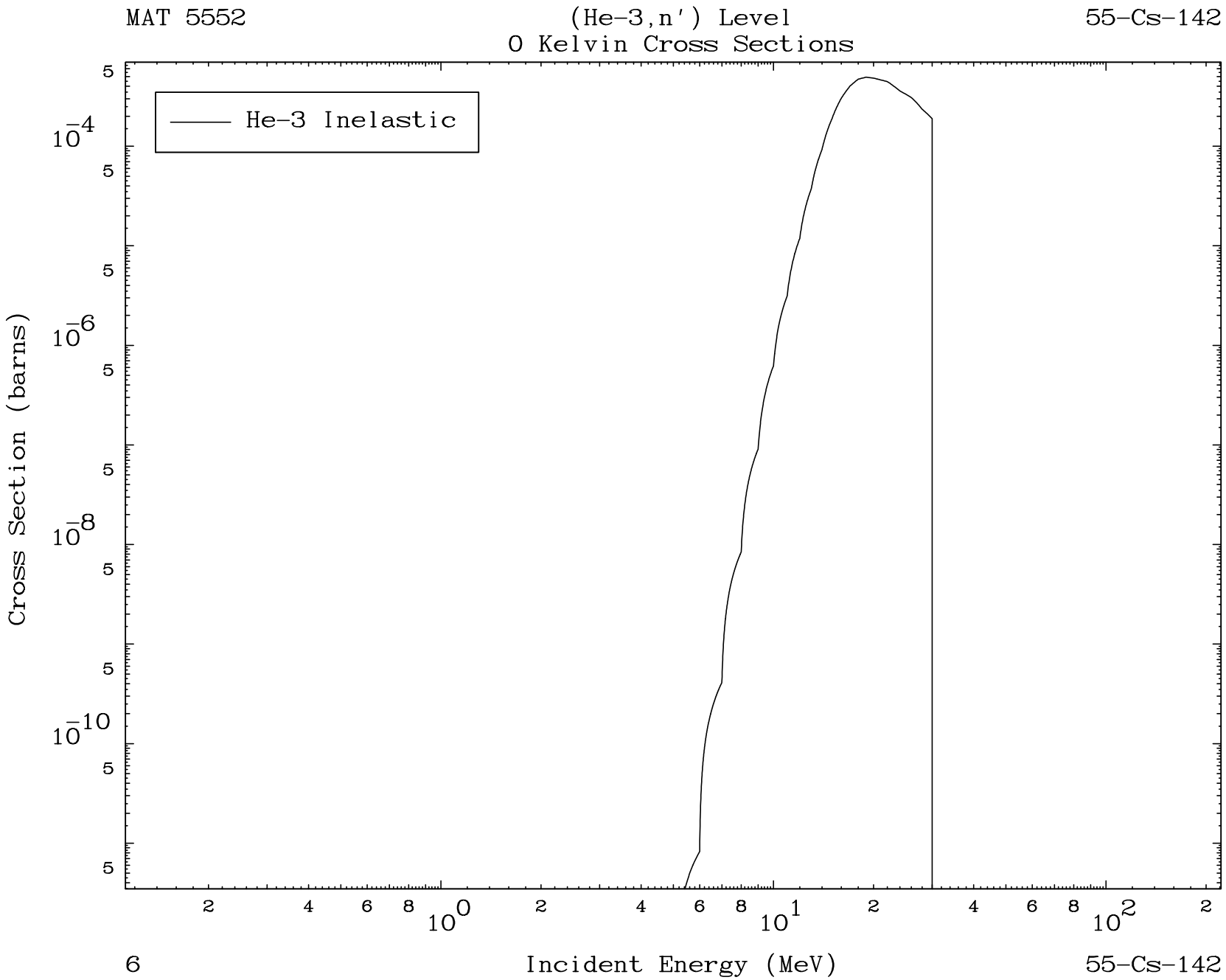

MAT 5552
He-3 Major
55-Cs-142
0 Kelvin Cross Sections
He-3 Inelastic
(He-3,remainder)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-142
1

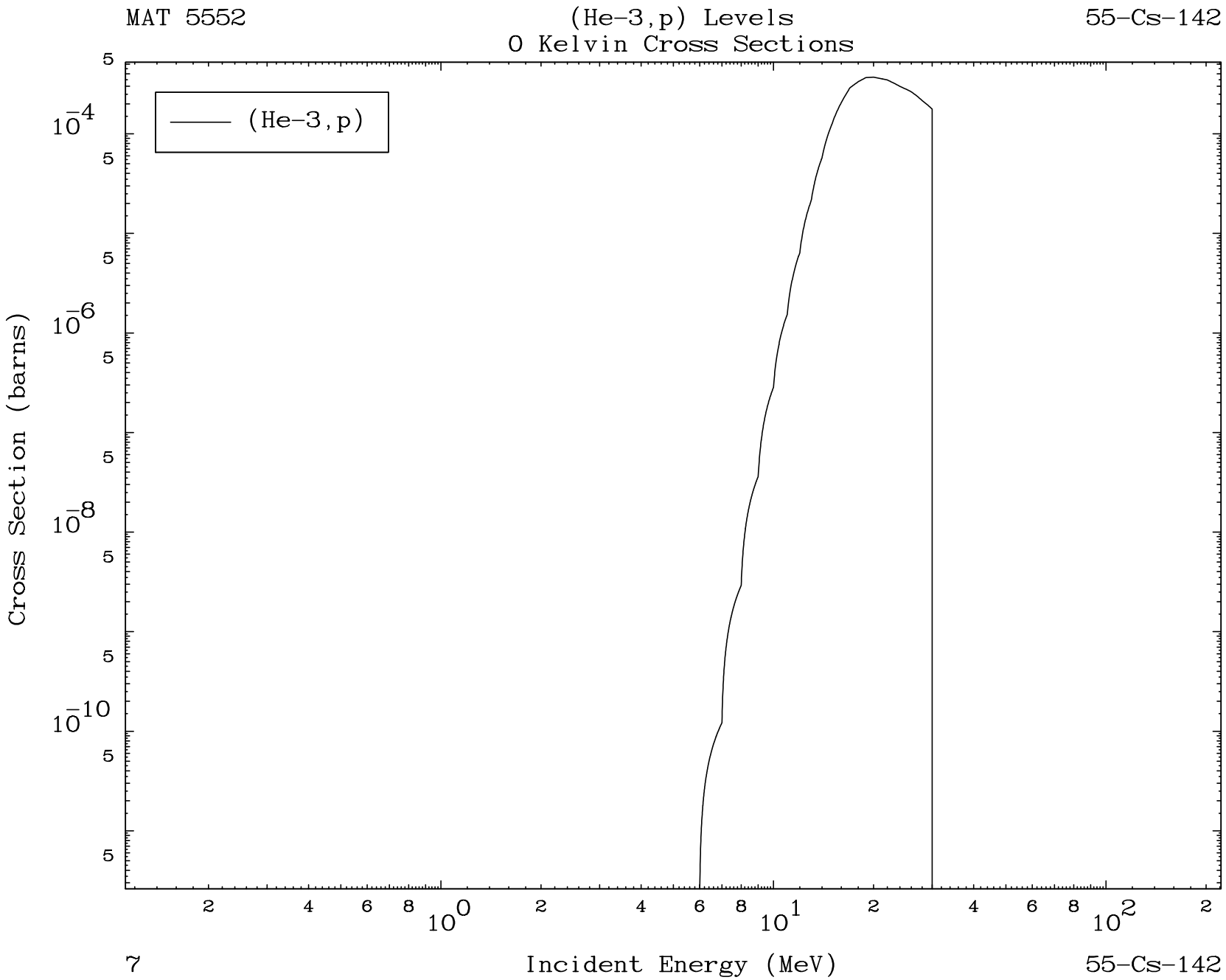

MAT 5552
He-3 Neutron Production
0 Kelvin Cross Sections
55-Cs-142
(He-3,2n)
(He-3,3n)
(He-3,n') α
(He-3,2n) α
(He-3,3n) α
(He-3,n') p
(He-3,n') 2α
Cross Section (barns)
Incident Energy (MeV)
55-Cs-142
2

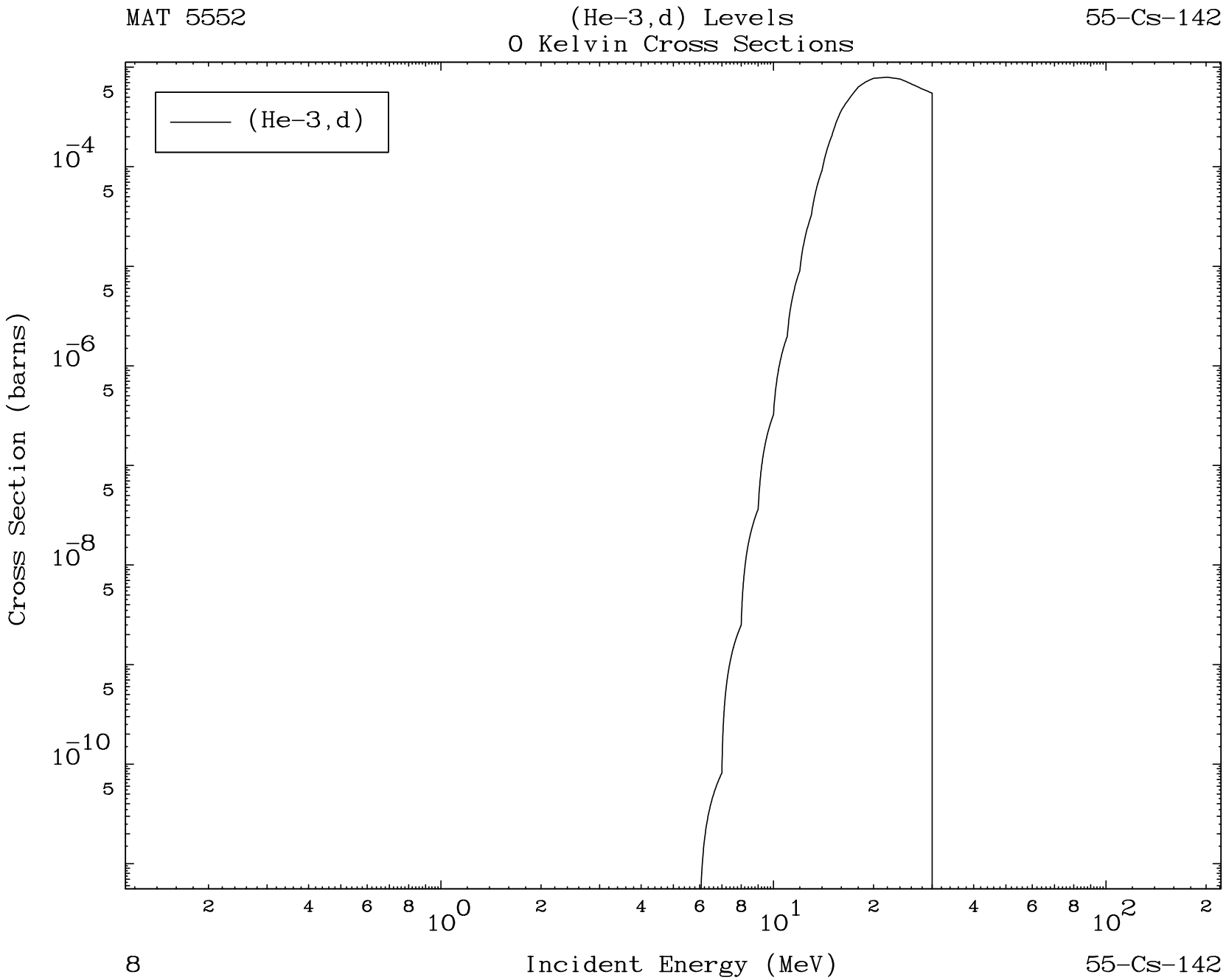

MAT 5552
He-3 Neutron Production
0 Kelvin Cross Sections
55-Cs-142
(He-3,2n) 2α
(He-3,n') d
(He-3,n') t
(He-3,n') He-3
(He-3,4n)
(He-3,2n) p
(He-3,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
55-Cs-142

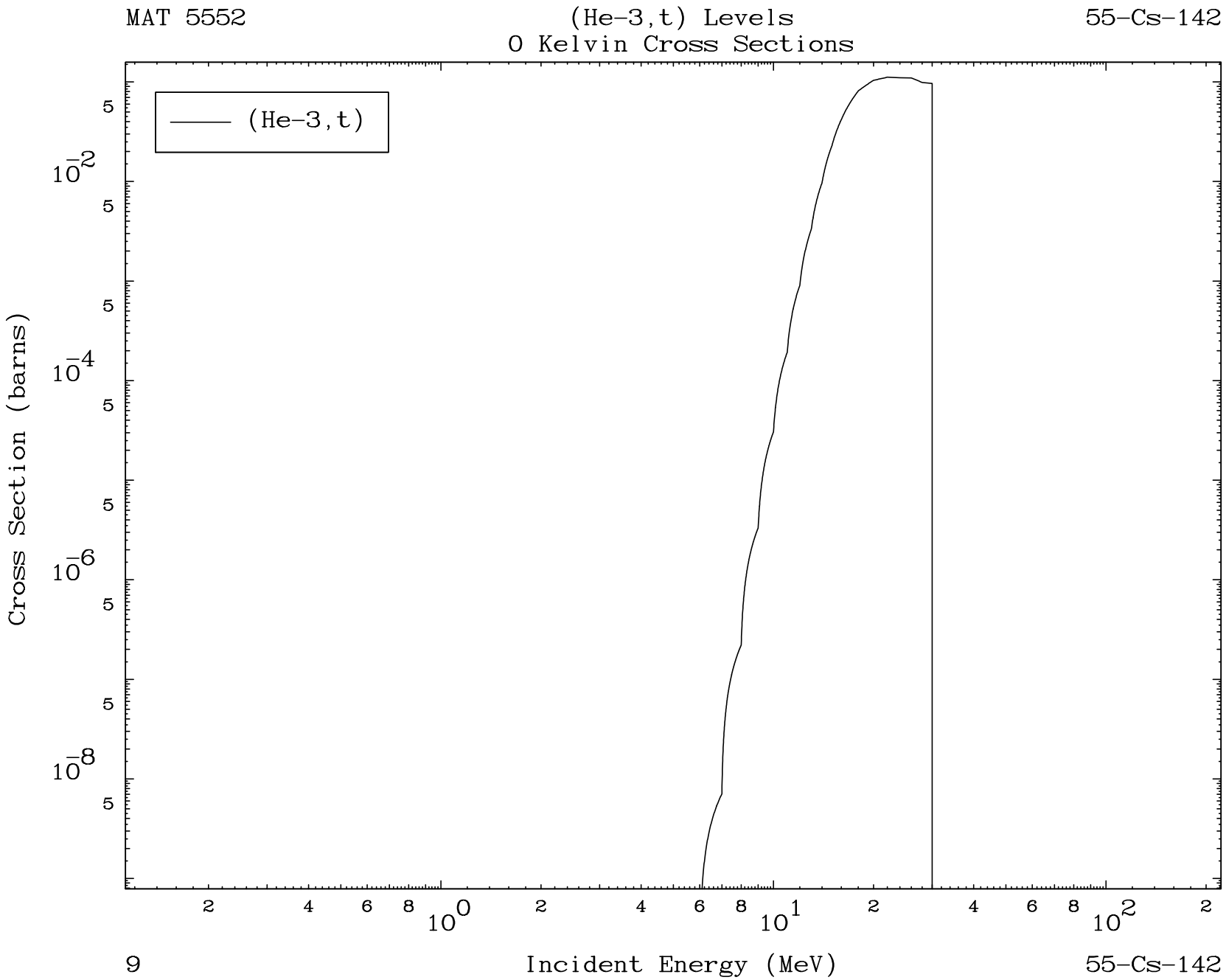

MAT 5552
He-3 Charged Particle
0 Kelvin Cross Sections
55-Cs-142
(He-3,n') α
(He-3,2n) α
(He-3,3n) α
(He-3,n') p
(He-3,2n) 2α
(He-3,n') d
(He-3,n') t
(He-3,n') He-3
(He-3,2n) p
Cross Section (barns)
Incident Energy (MeV)
4
55-Cs-142

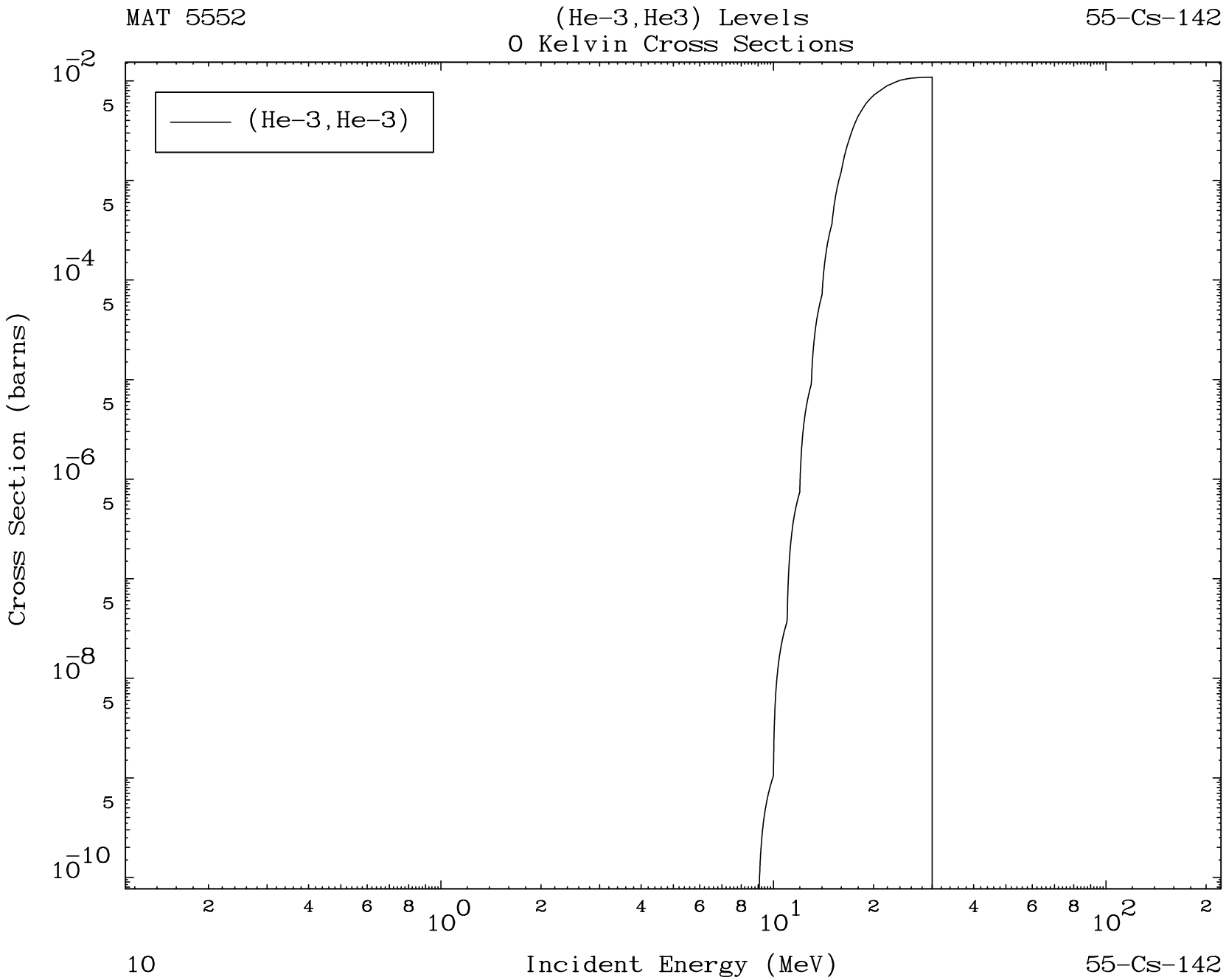

MAT 5552
He-3 Charged Particle
0 Kelvin Cross Sections
55-Cs-142
(He-3,3n) p
(He-3,p)
(He-3,d)
(He-3,t)
(He-3,He-3)
(He-3,α)
(He-3,2p)
(He-3,p) α
(He-3,p) d
(He-3,p) t
Cross Section (barns)
Incident Energy (MeV)
55-Cs-142

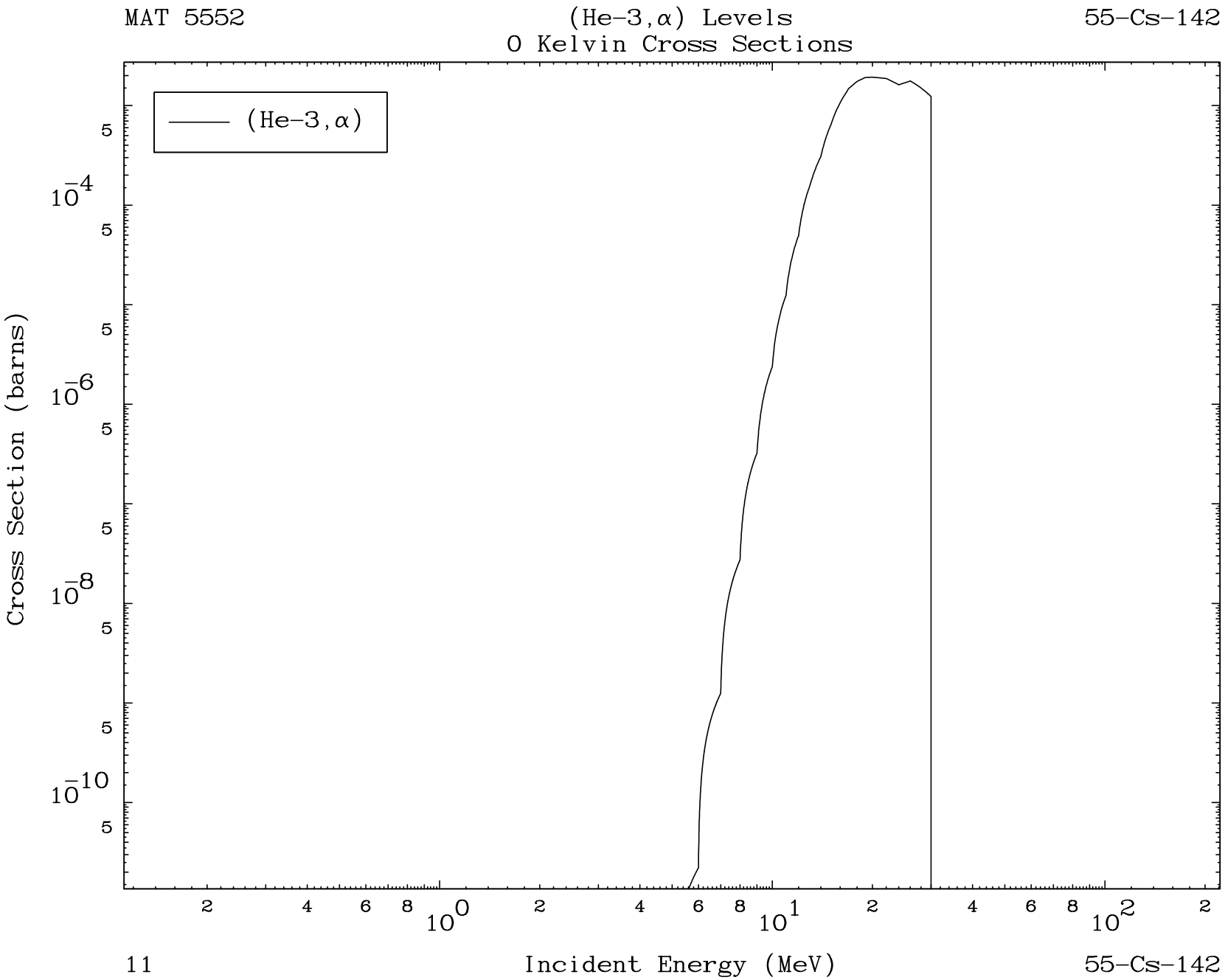

MAT 5552
(He-3,n') Level
55-Cs-142
0 Kelvin Cross Sections
He-3 Inelastic
Cross Section (barns)
Incident Energy (MeV)
6
55-Cs-142

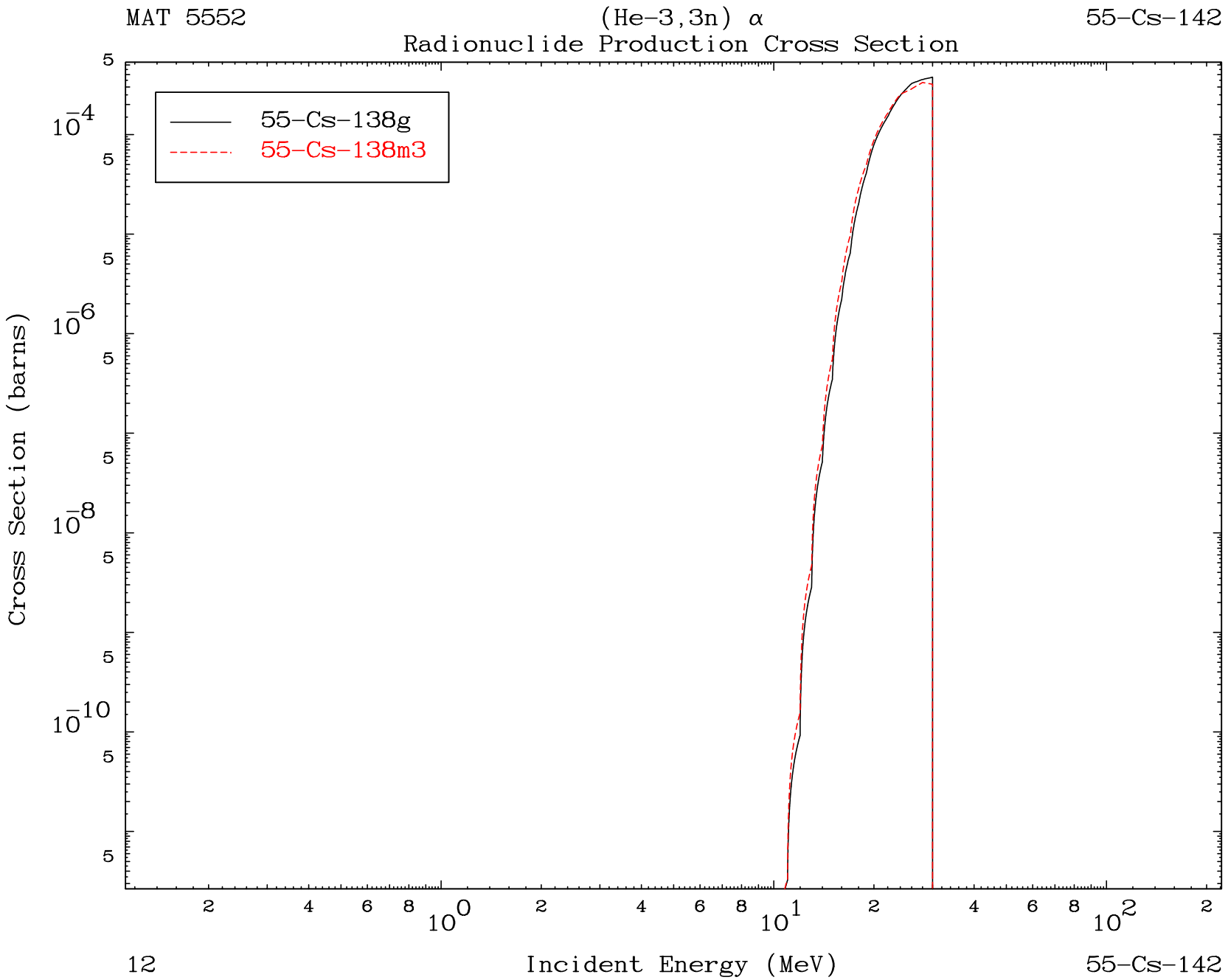

MAT 5552
(He-3,p) Levels
55-Cs-142
0 Kelvin Cross Sections
(He-3,p)
Cross Section (barns)
Incident Energy (MeV)
7
55-Cs-142

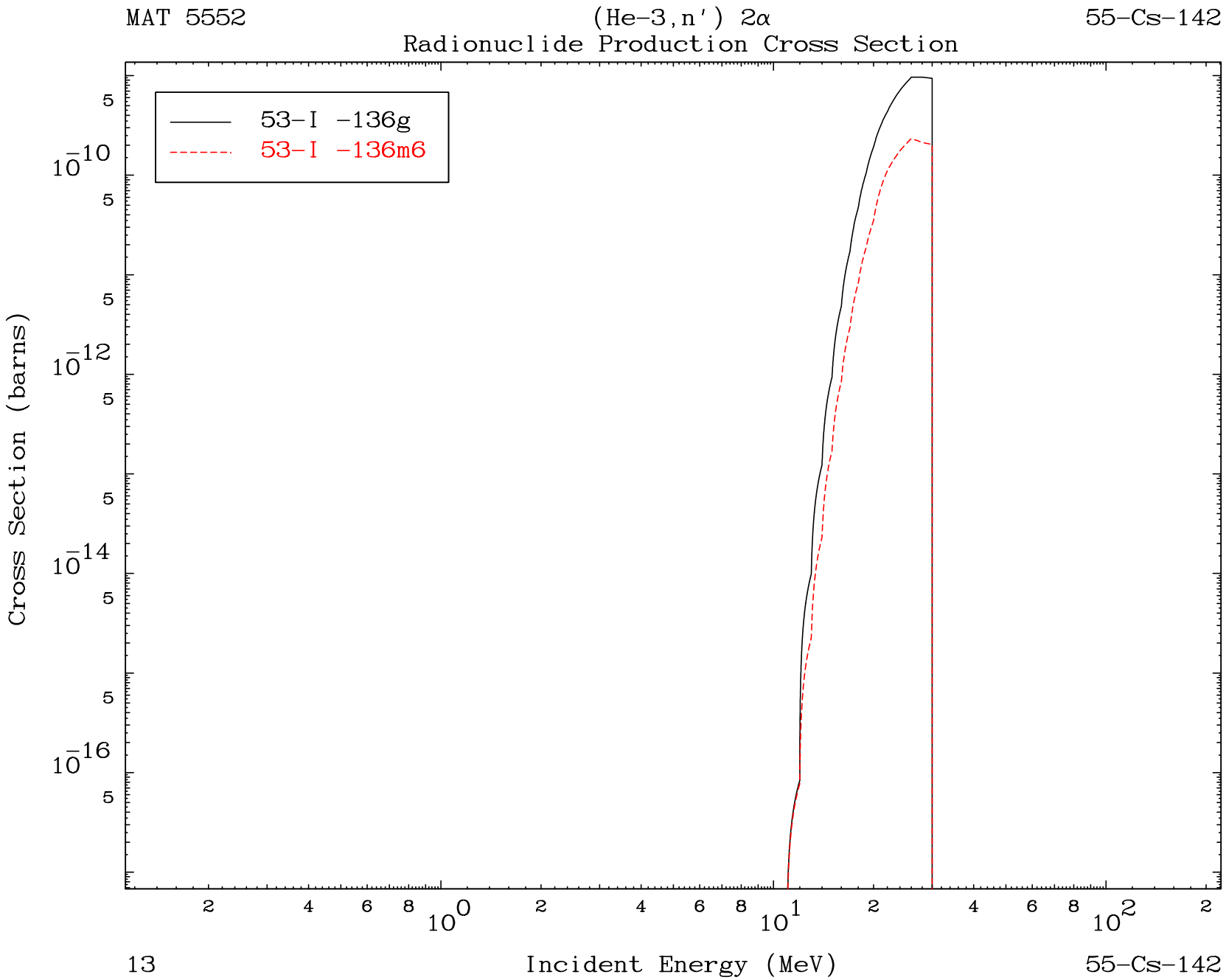

MAT 5552
(He-3,d) Levels
55-Cs-142
0 Kelvin Cross Sections
(He-3,d)
Cross Section (barns)
Incident Energy (MeV)
8
55-Cs-142


MAT 5552
(He-3,t) Levels
55-Cs-142
0 Kelvin Cross Sections
(He-3,t)
Cross Section (barns)
Incident Energy (MeV)
9
55-Cs-142


MAT 5552
(He-3,He3) Levels
55-Cs-142
0 Kelvin Cross Sections
(He-3,He-3)
Cross Section (barns)
Incident Energy (MeV)
55-Cs-142


MAT 5552
(He-3,α) Levels
55-Cs-142
0 Kelvin Cross Sections
(He-3,α)
Cross Section (barns)
10-4
10-6
10-8
10-10
100
101
102
Incident Energy (MeV)
11
55-Cs-142


MAT 5552
(He-3,3n) α
55-Cs-142
Radionuclide Production Cross Section
55-Cs-138g
55-Cs-138m3
Cross Section (barns)
Incident Energy (MeV)
12
55-Cs-142


MAT 5552
(He-3,n') 2α
55-Cs-142
Radionuclide Production Cross Section
53-I -136g
53-I -136m6
Cross Section (barns)
Incident Energy (MeV)
13
55-Cs-142