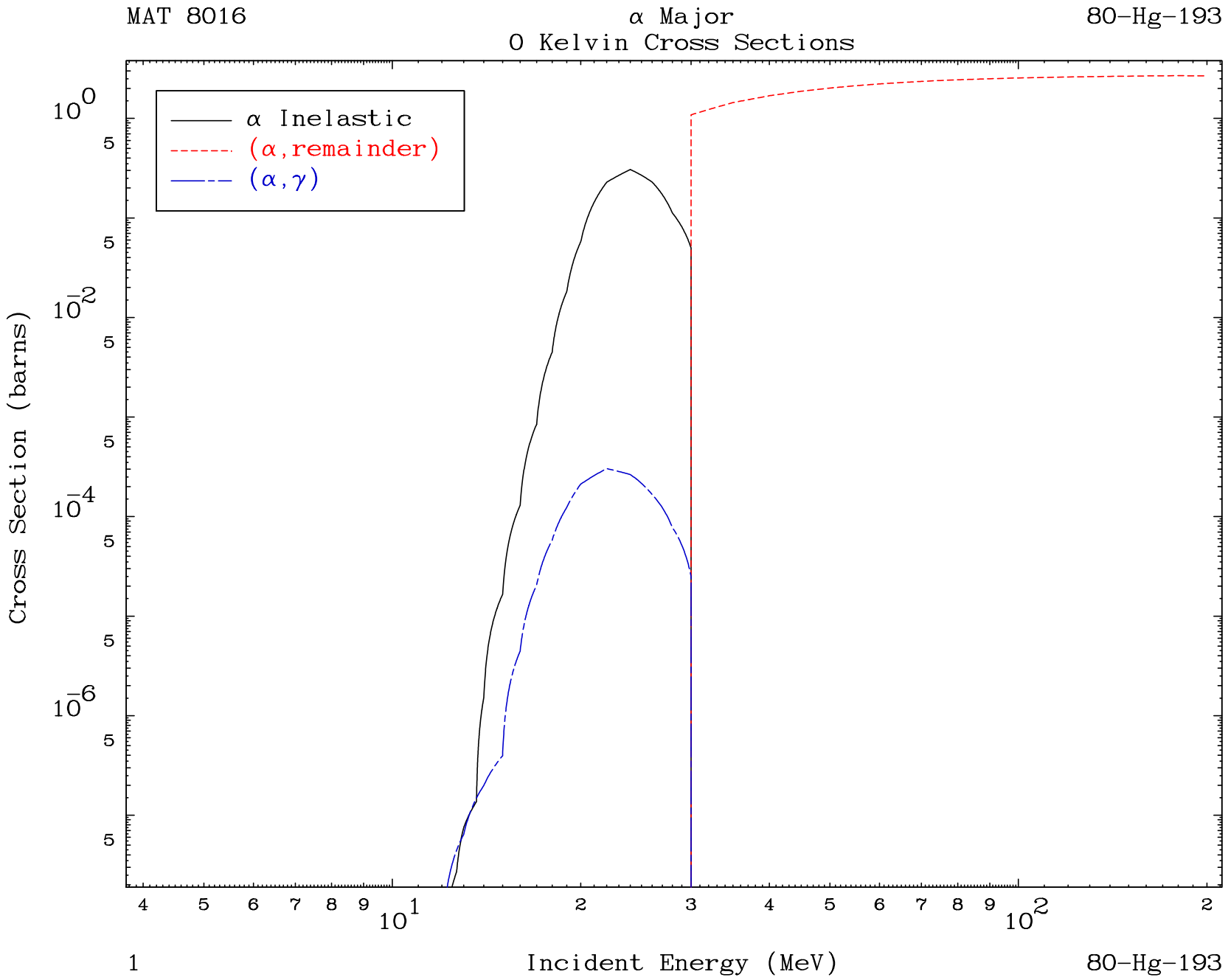
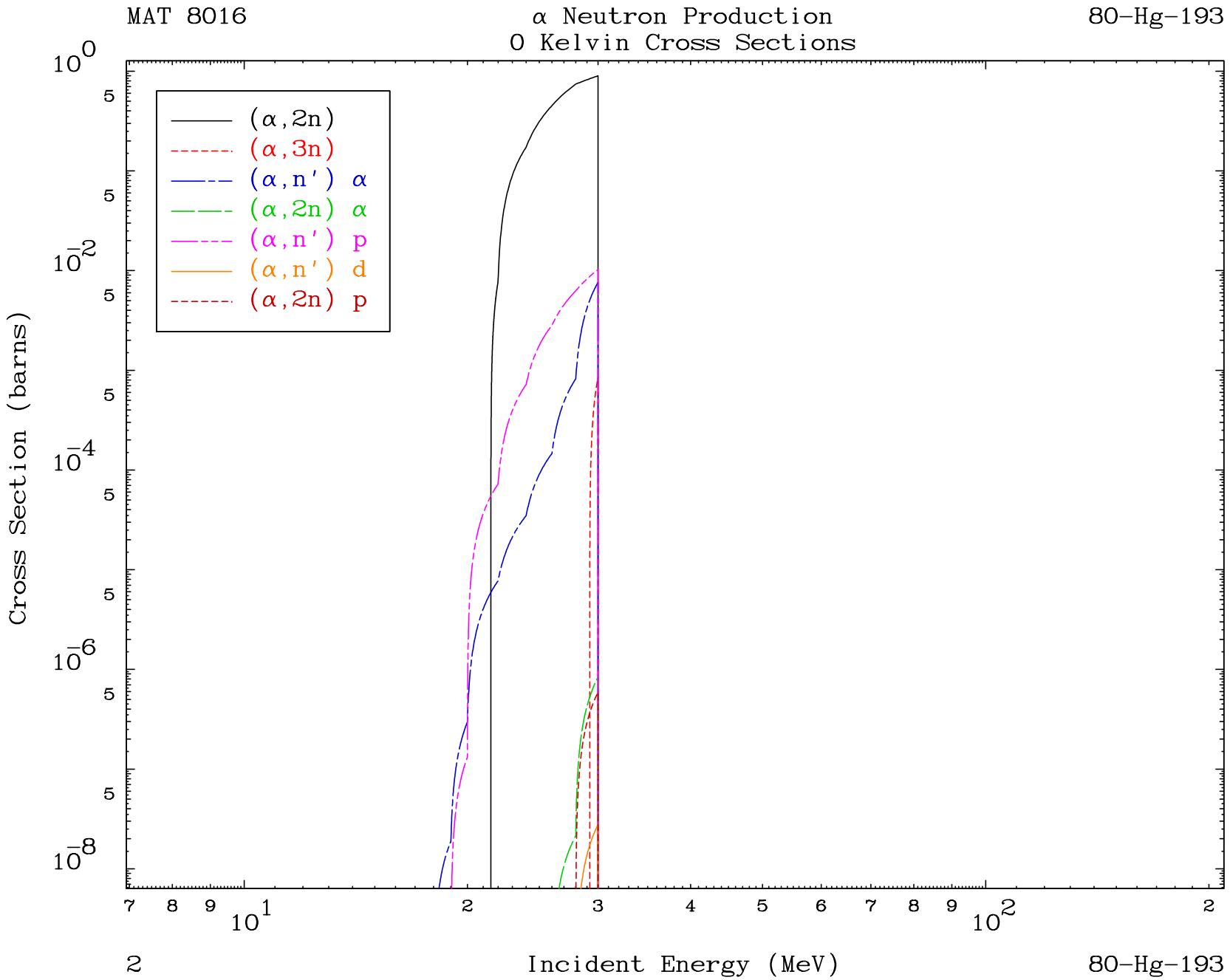
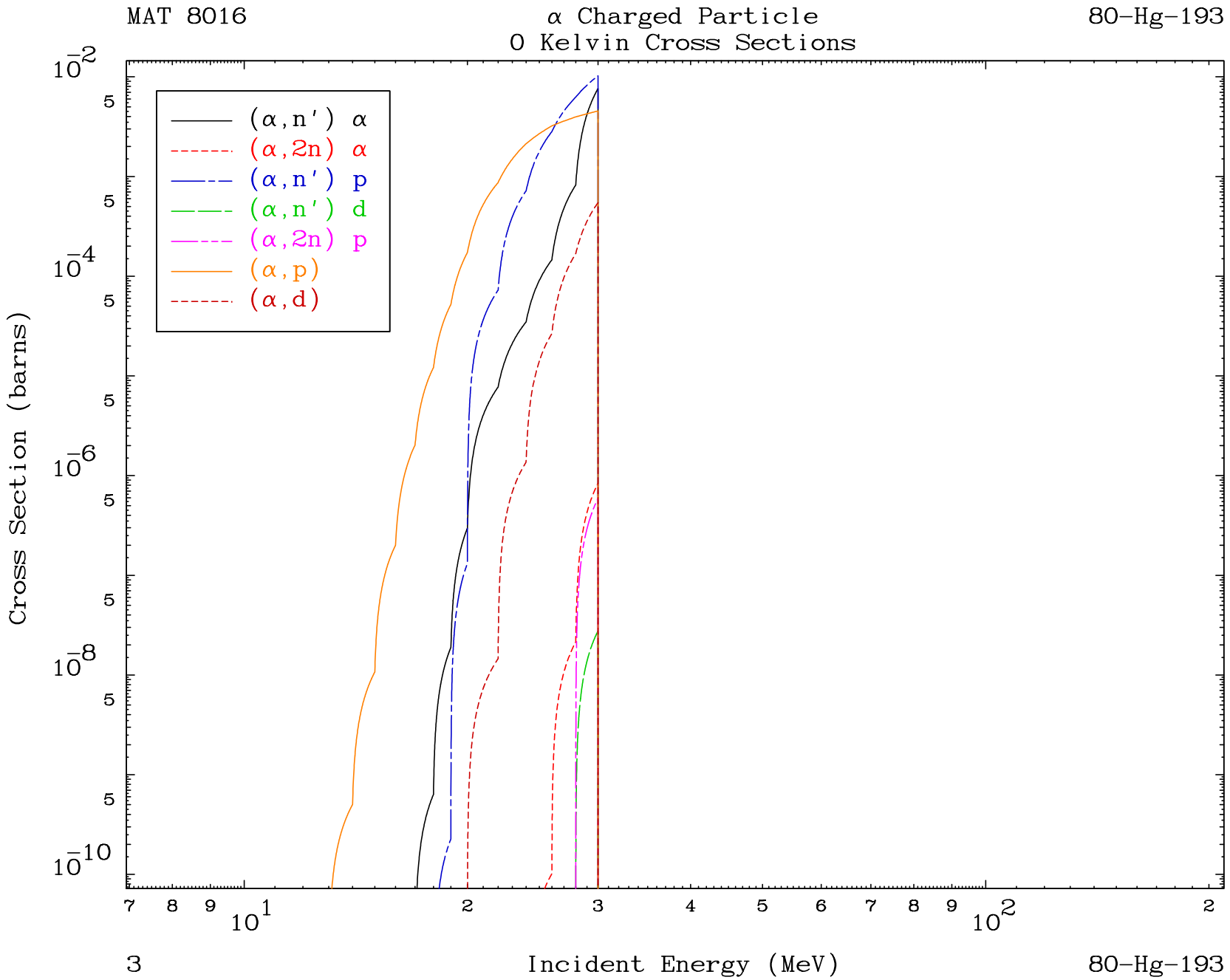
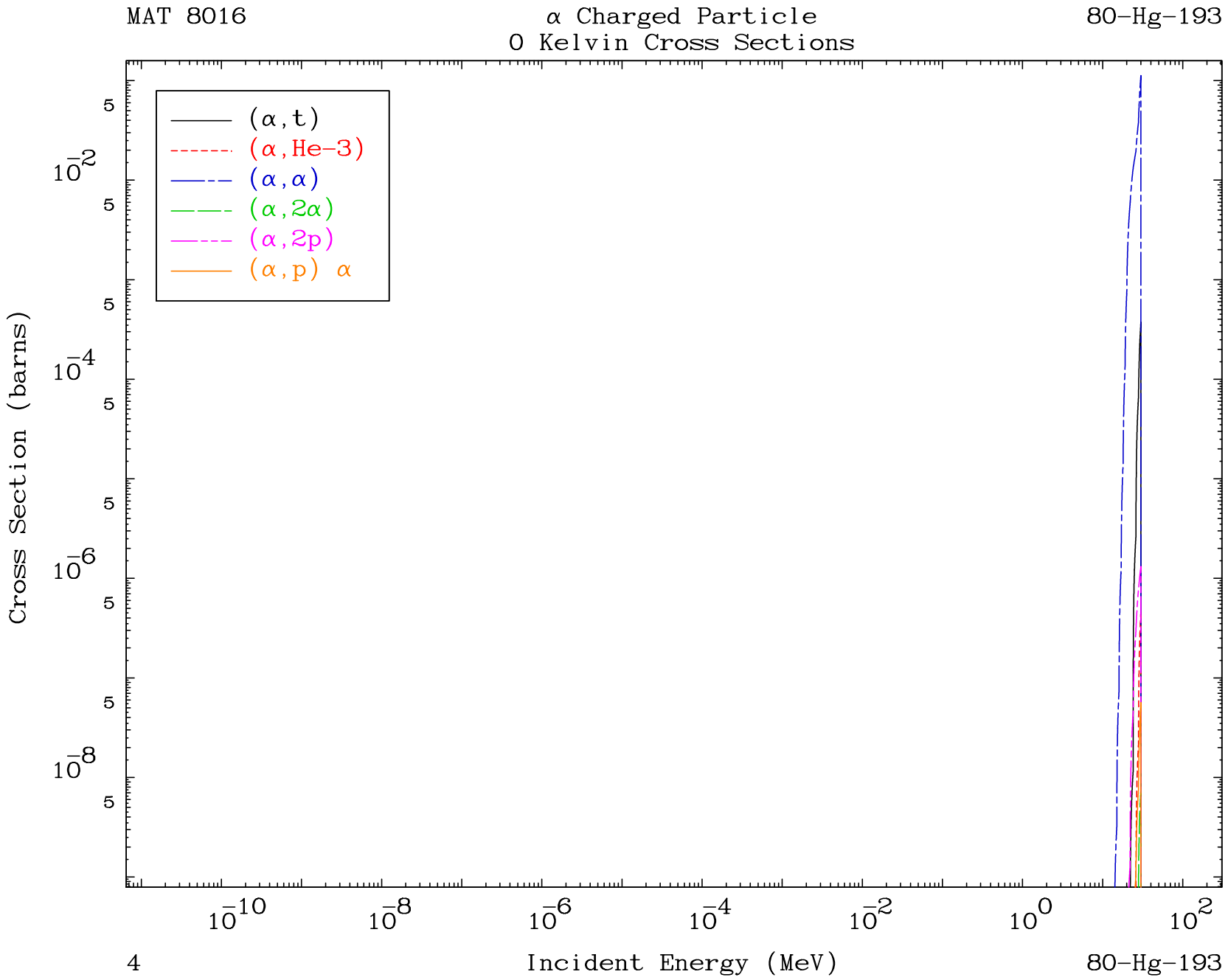
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

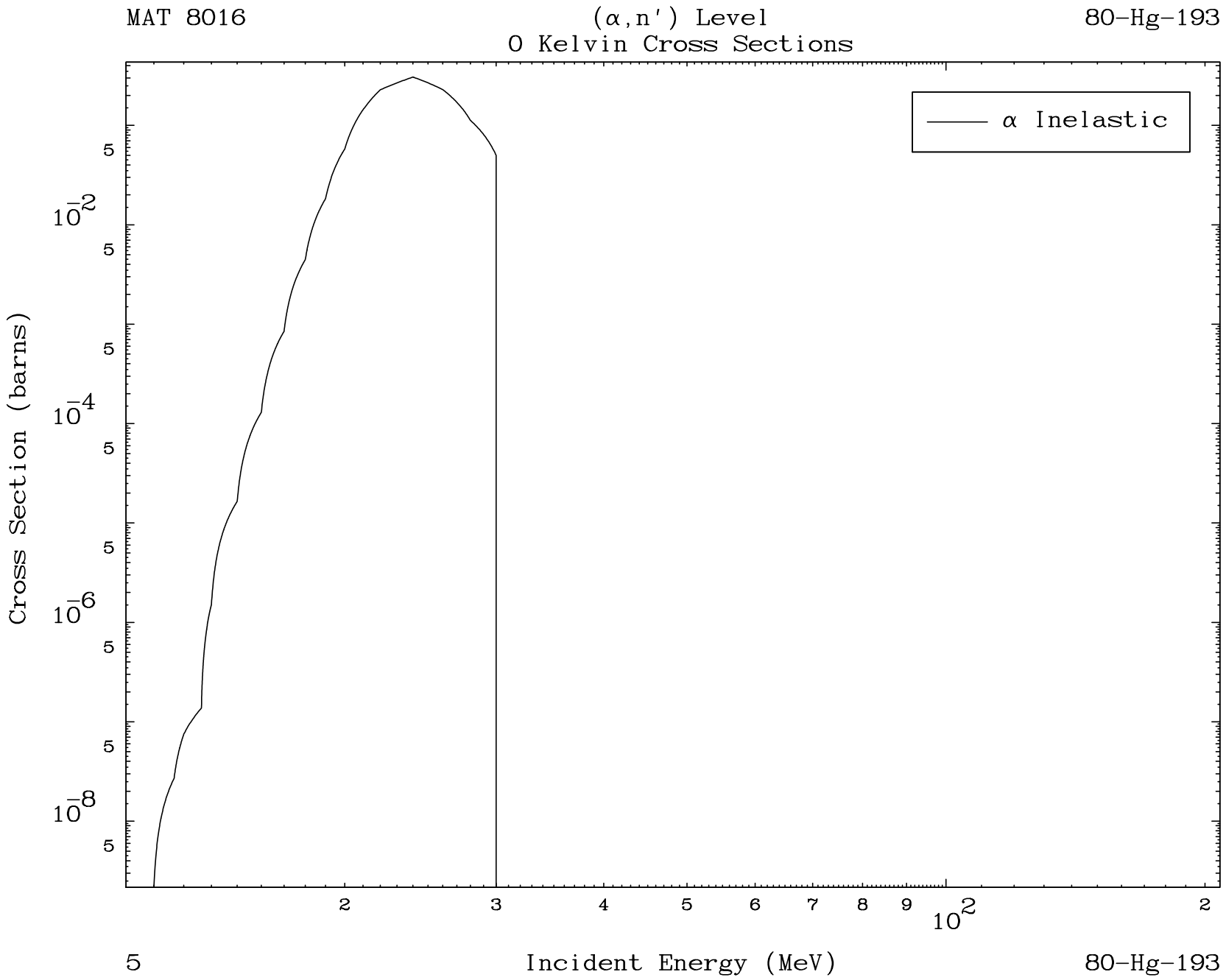
Press Mouse Button to Start

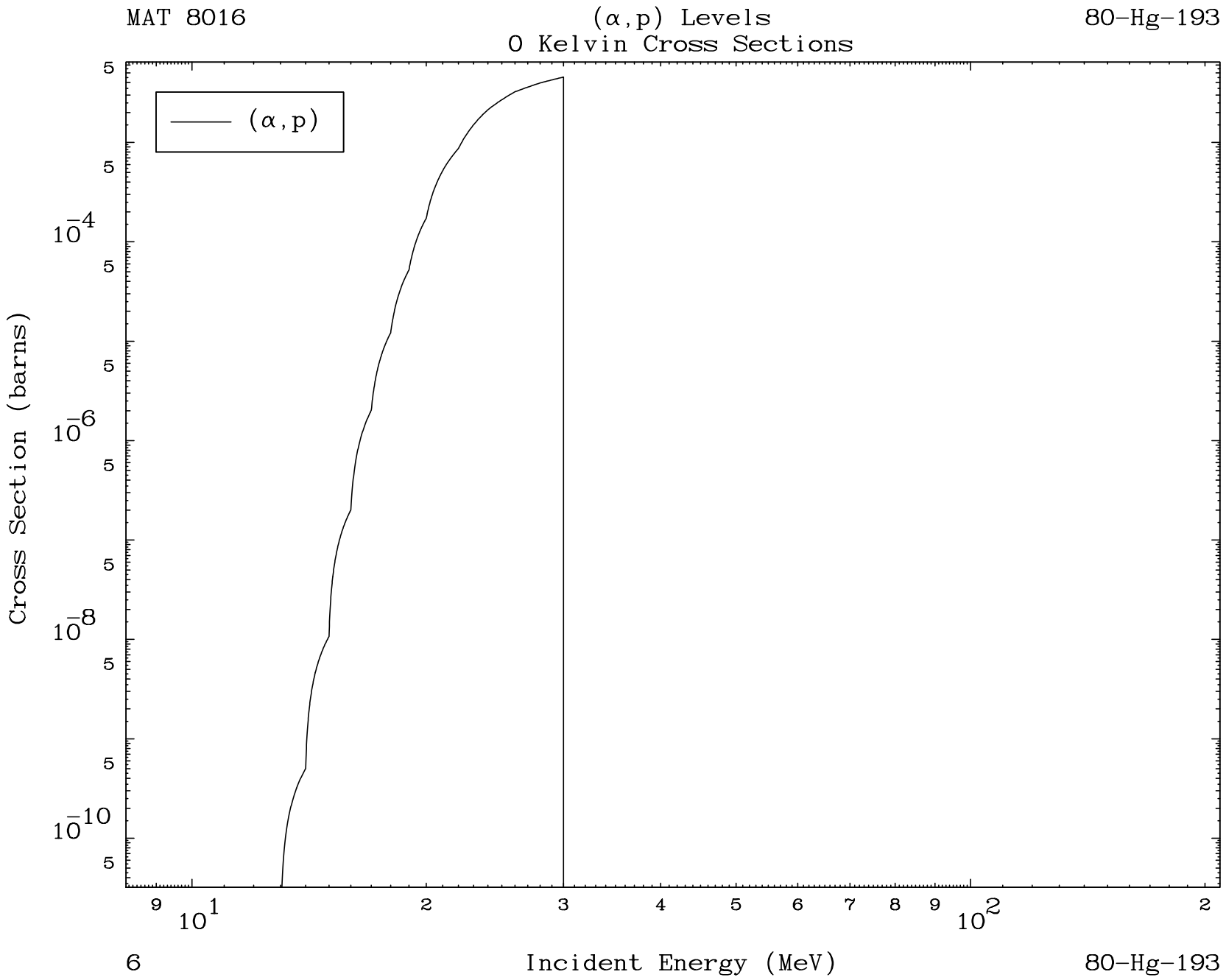

MAT 8016
α Major
80-Hg-193
0 Kelvin Cross Sections
α Inelastic
(α,remainder)
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
80-Hg-193

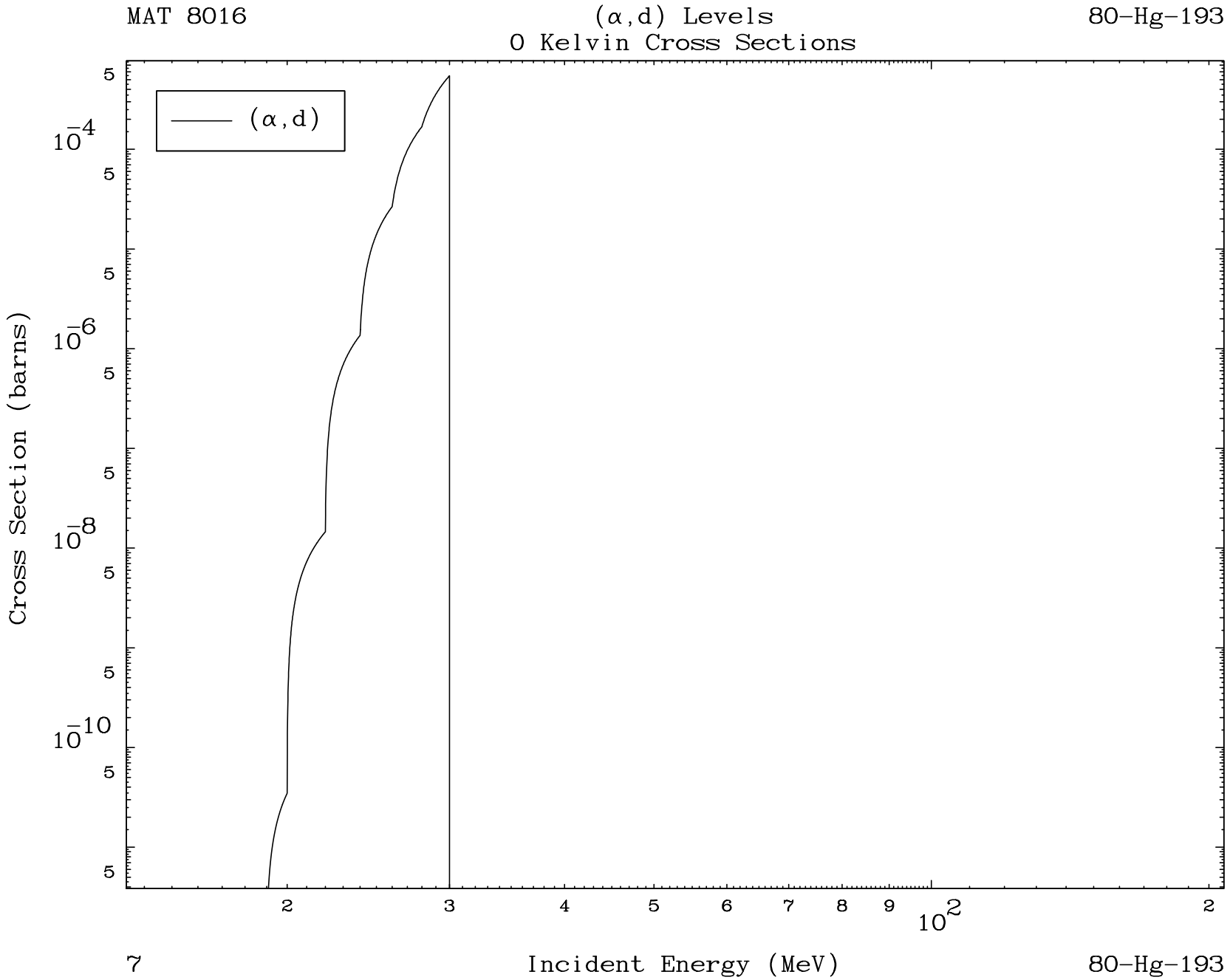

MAT 8016
α Neutron Production
0 Kelvin Cross Sections
80-Hg-193
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
80-Hg-193

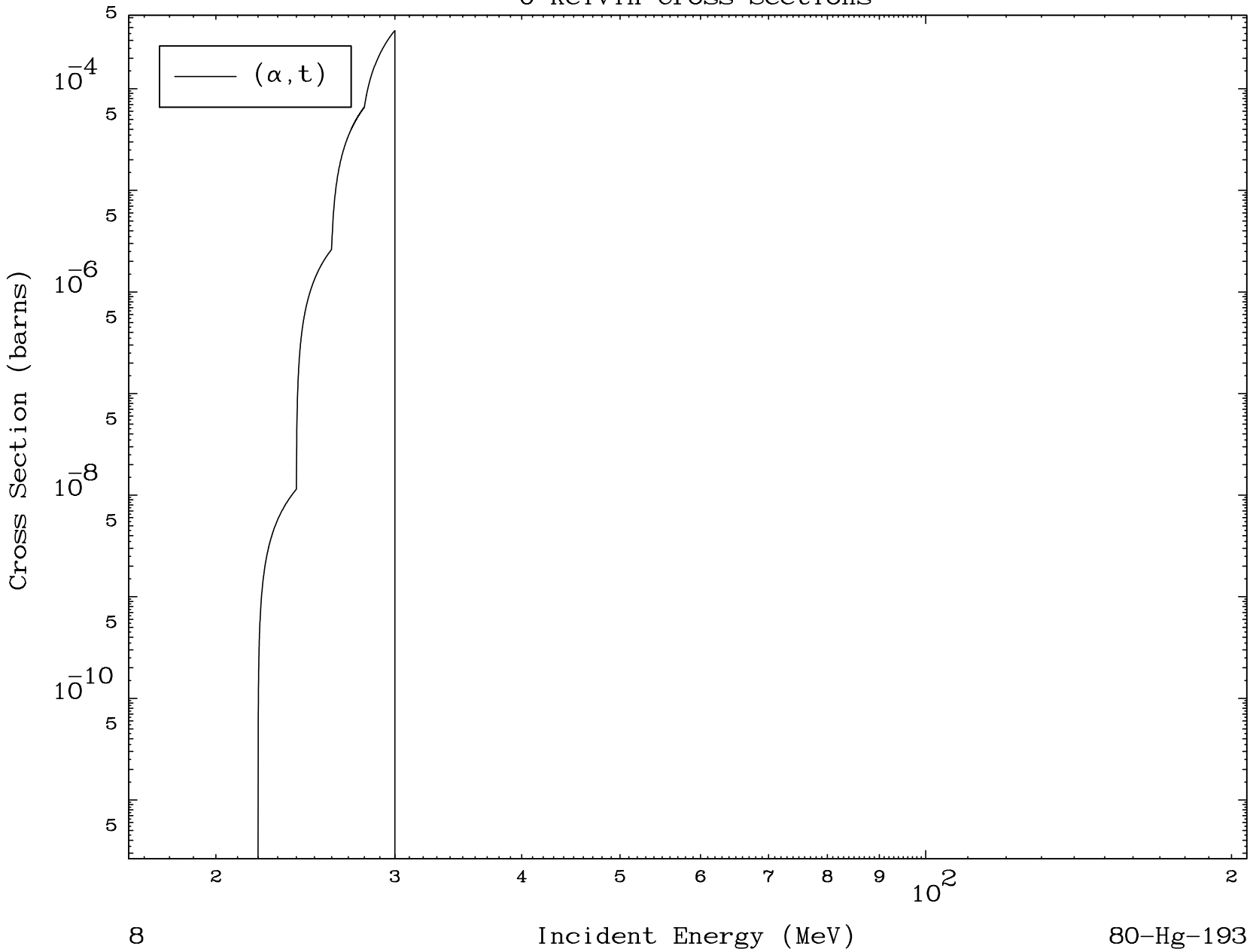

MAT 8016
α Charged Particle
0 Kelvin Cross Sections
80-Hg-193
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,2n) p
(α,p)
(α,d)
Cross Section (barns)
Incident Energy (MeV)
3
80-Hg-193

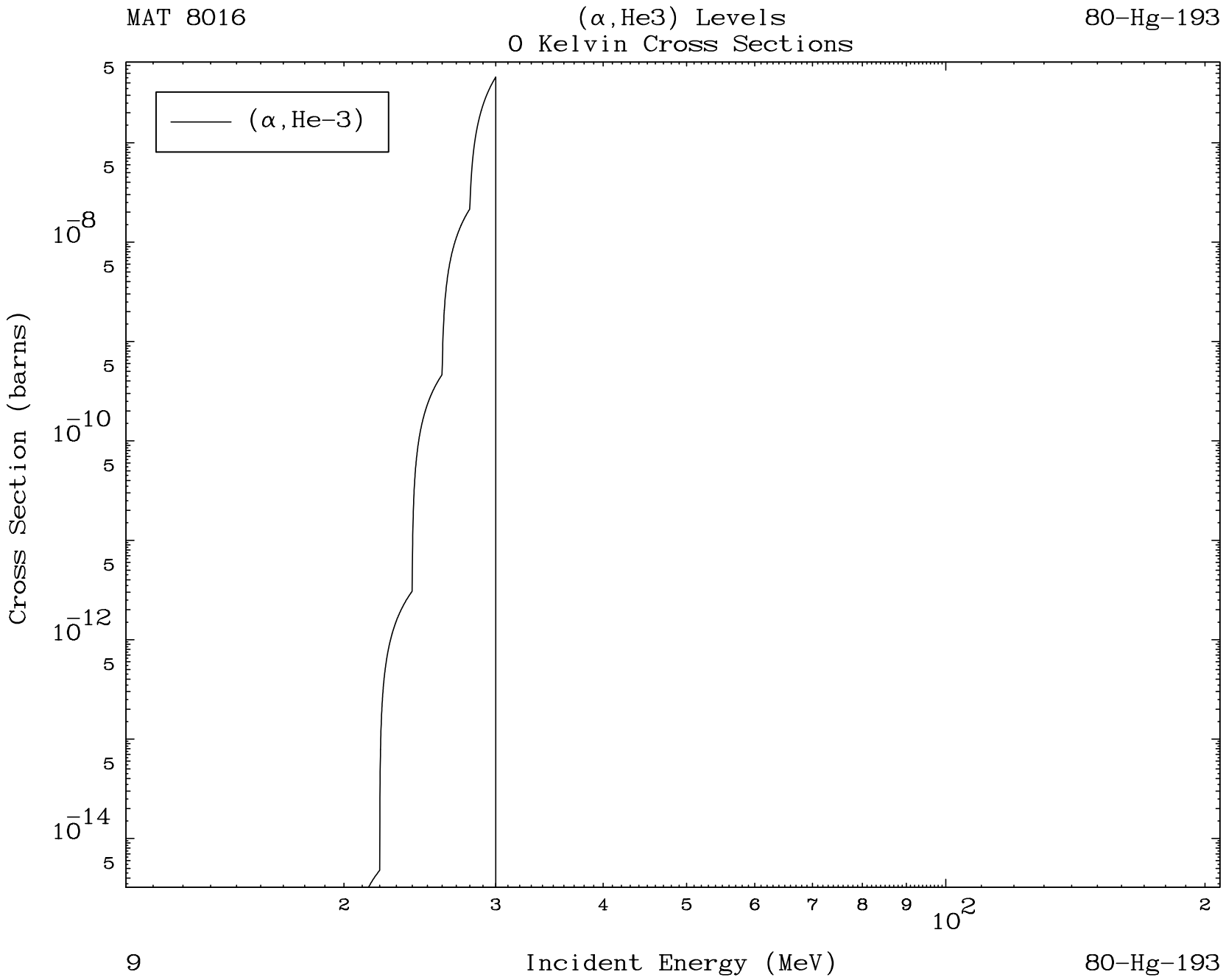

MAT 8016
α Charged Particle
0 Kelvin Cross Sections
80-Hg-193
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
Cross Section (barns)
Incident Energy (MeV)
4
80-Hg-193

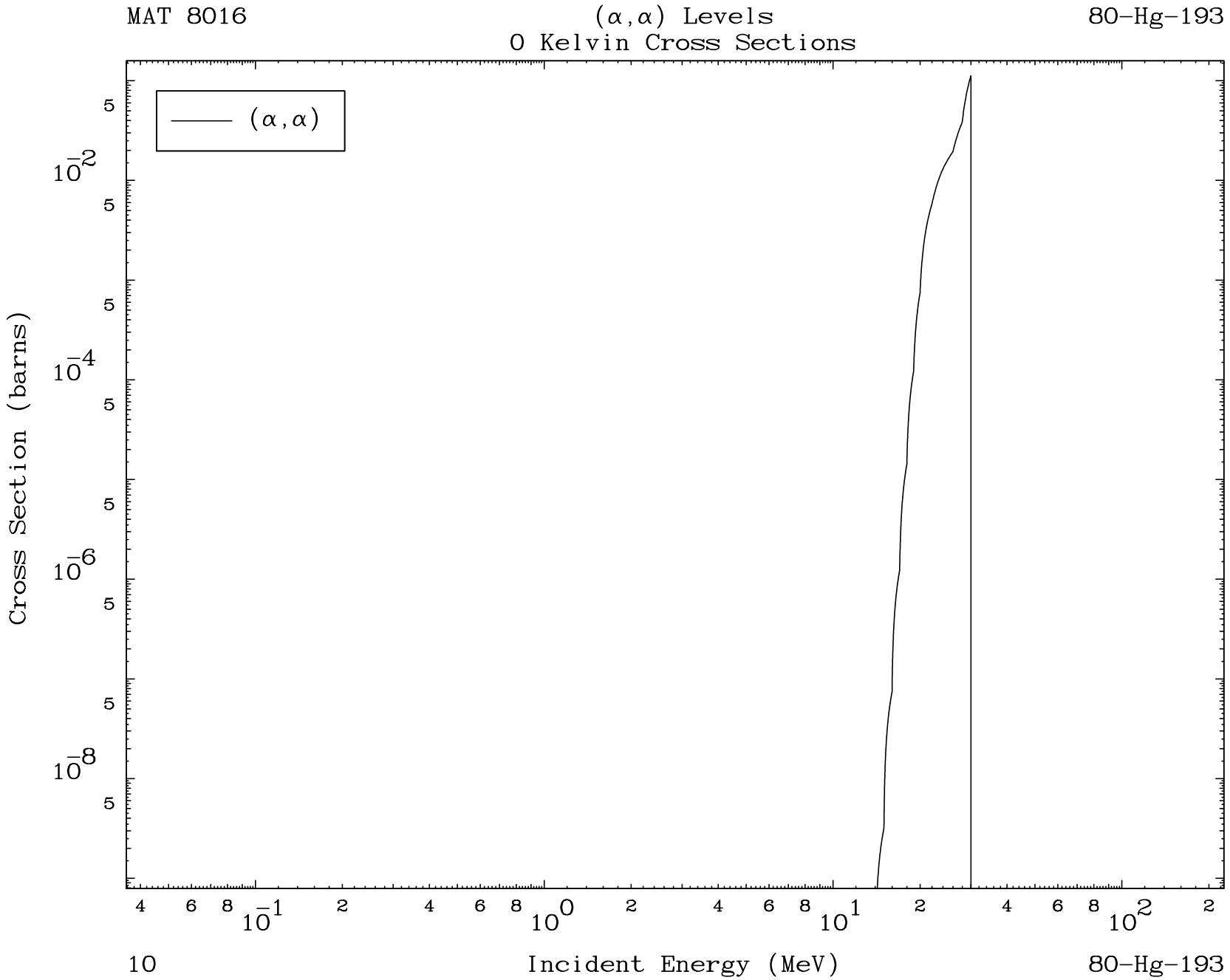

MAT 8016
(α,n') Level
80-Hg-193
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
5
Incident Energy (MeV)
80-Hg-193

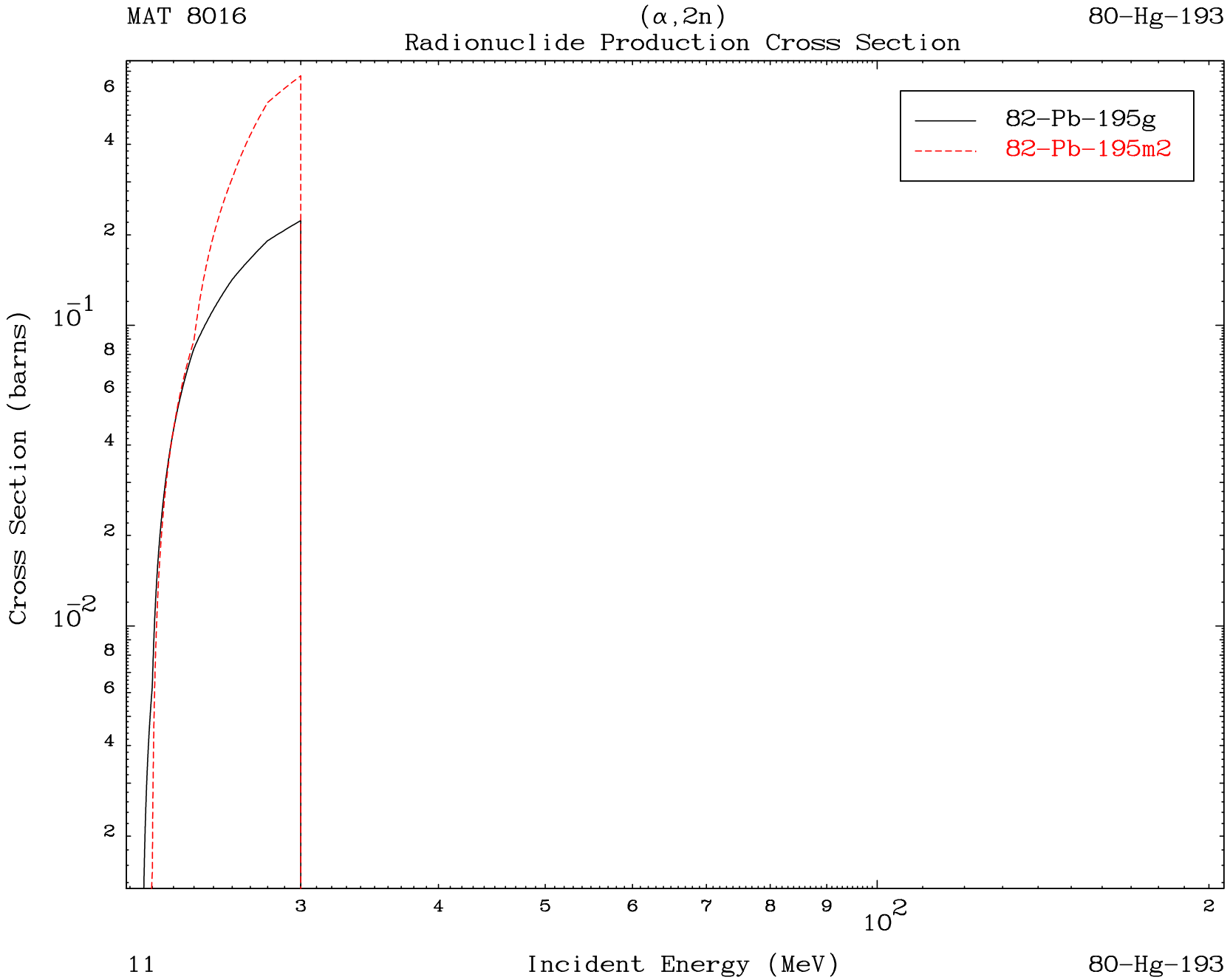

MAT 8016
(α,p) Levels
80-Hg-193
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
6
80-Hg-193

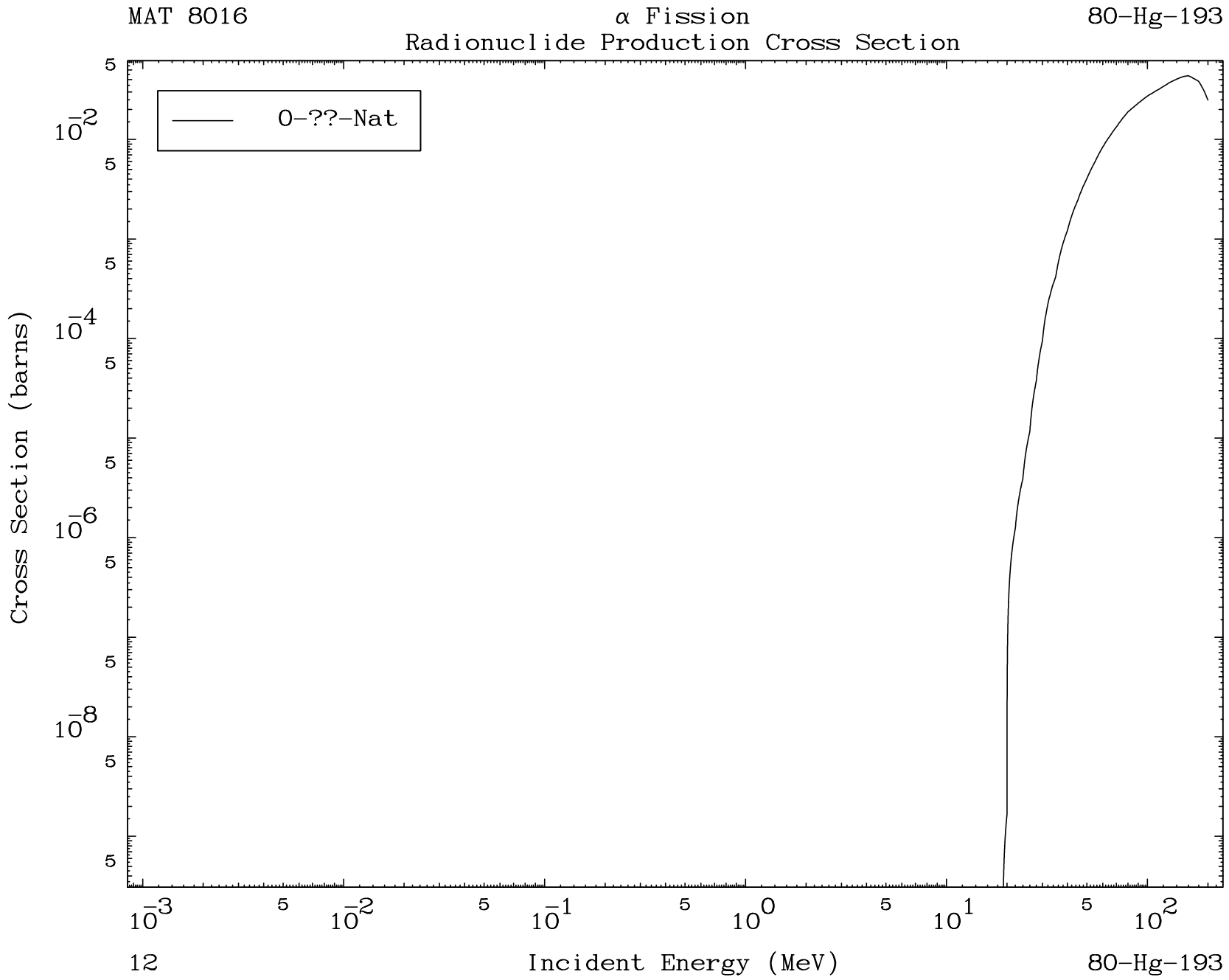

MAT 8016
(α,d) Levels
80-Hg-193
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
7
80-Hg-193

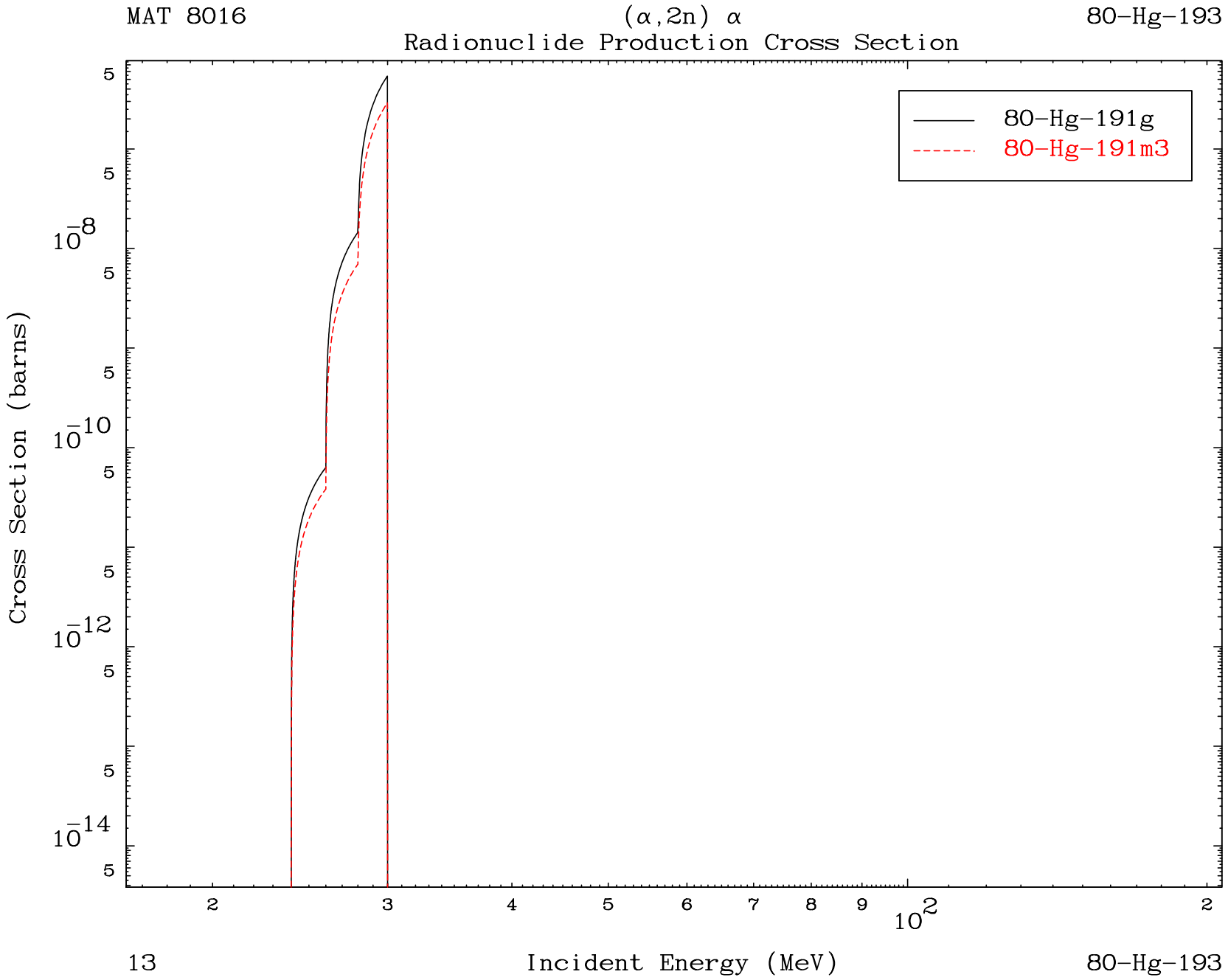

0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

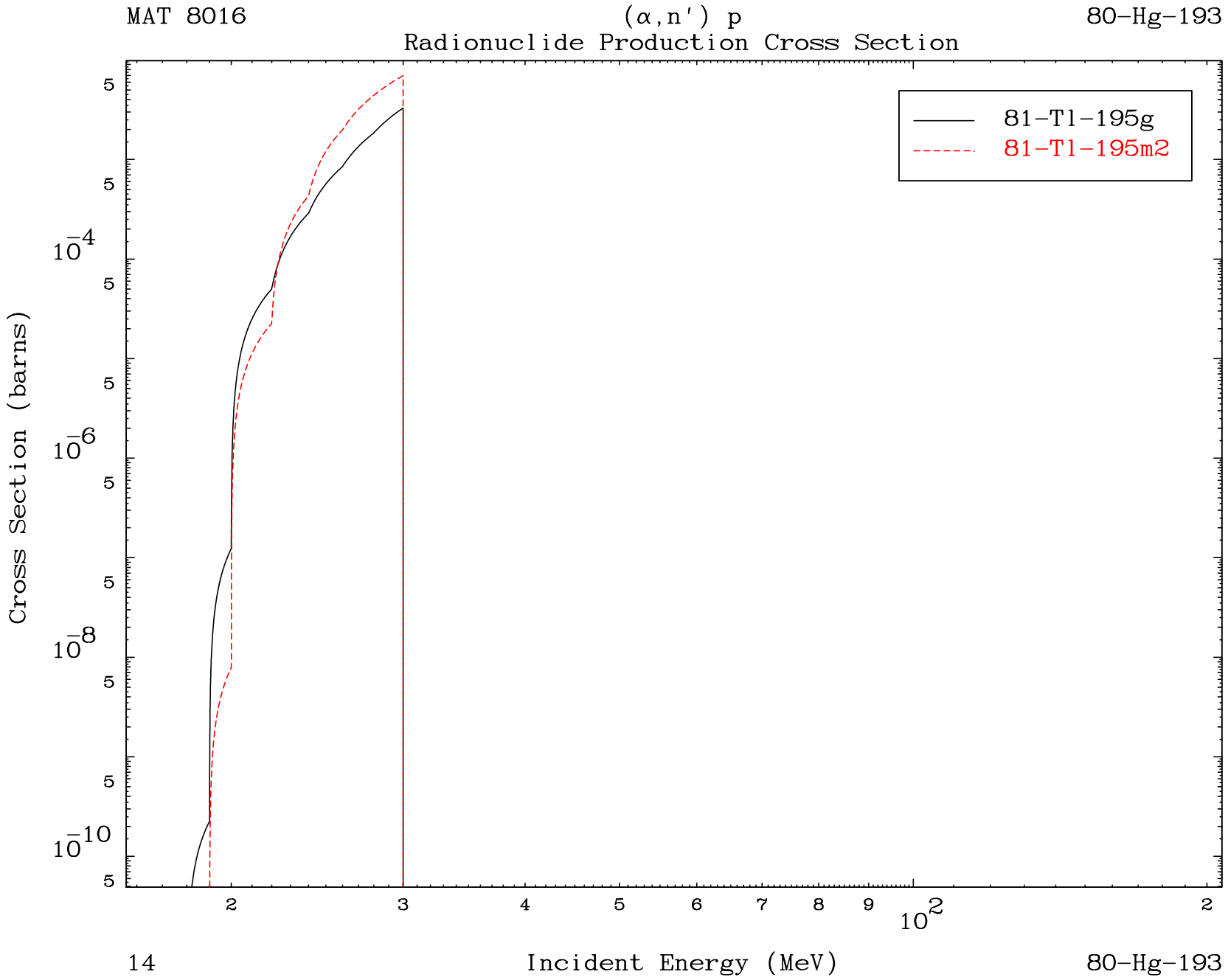

MAT 8016
(α,He3) Levels
80-Hg-193
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
9
80-Hg-193

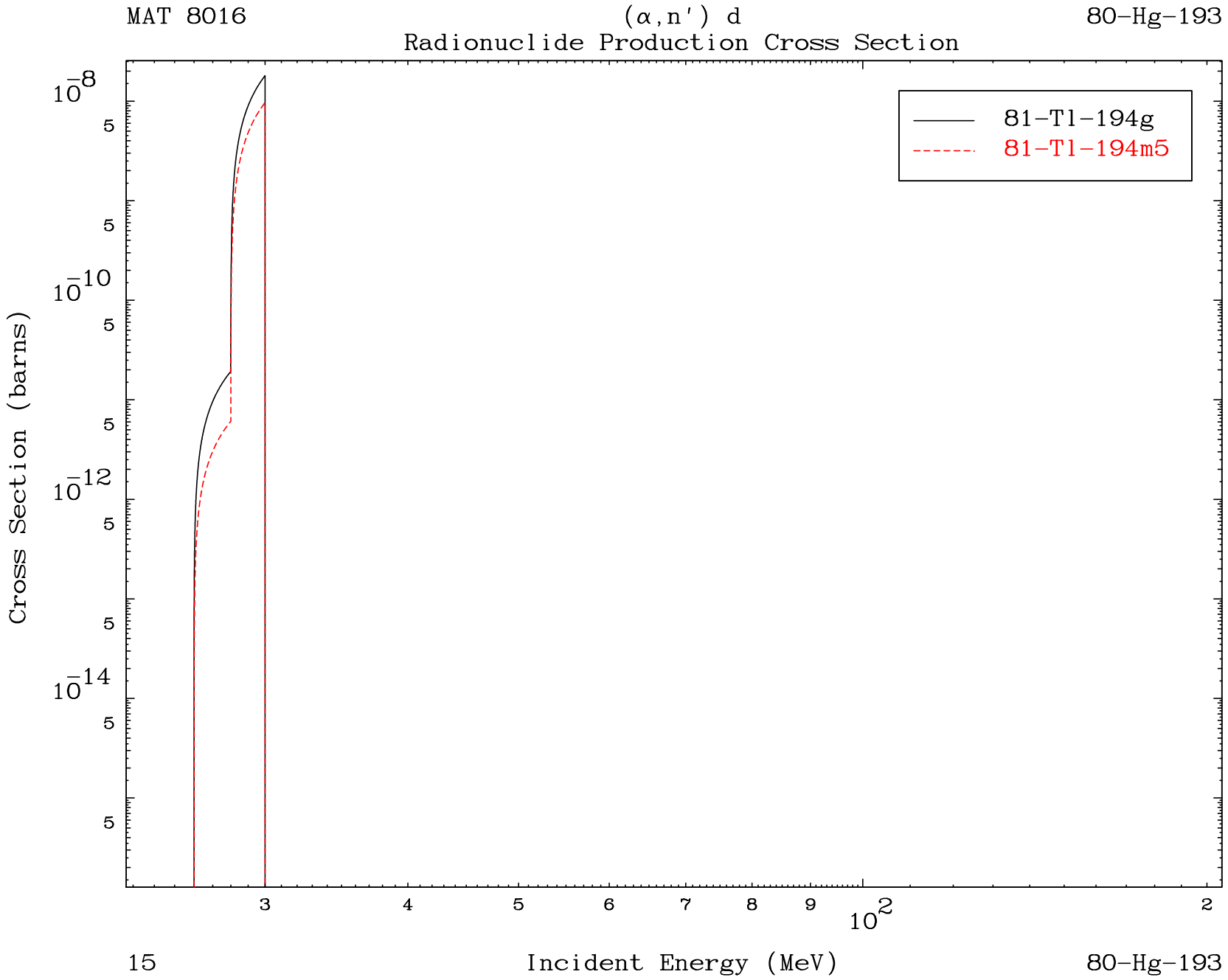

MAT 8016
(α,α) Levels
80-Hg-193
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
Incident Energy (MeV)
80-Hg-193

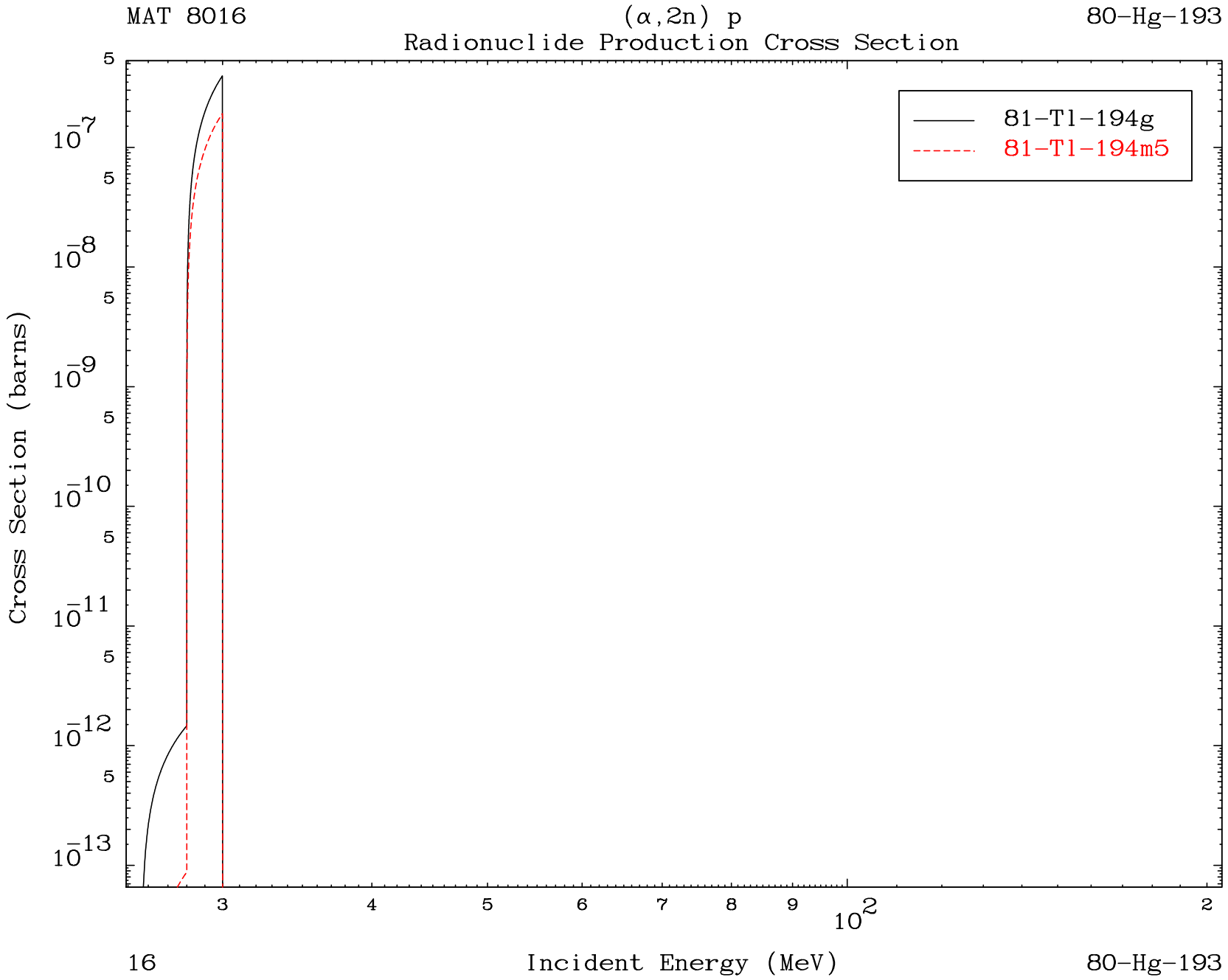

MAT 8016
(α,2n)
80-Hg-193
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
10-1
10-2
6
4
2
8
6
4
2
8
6
4
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
80-Hg-193

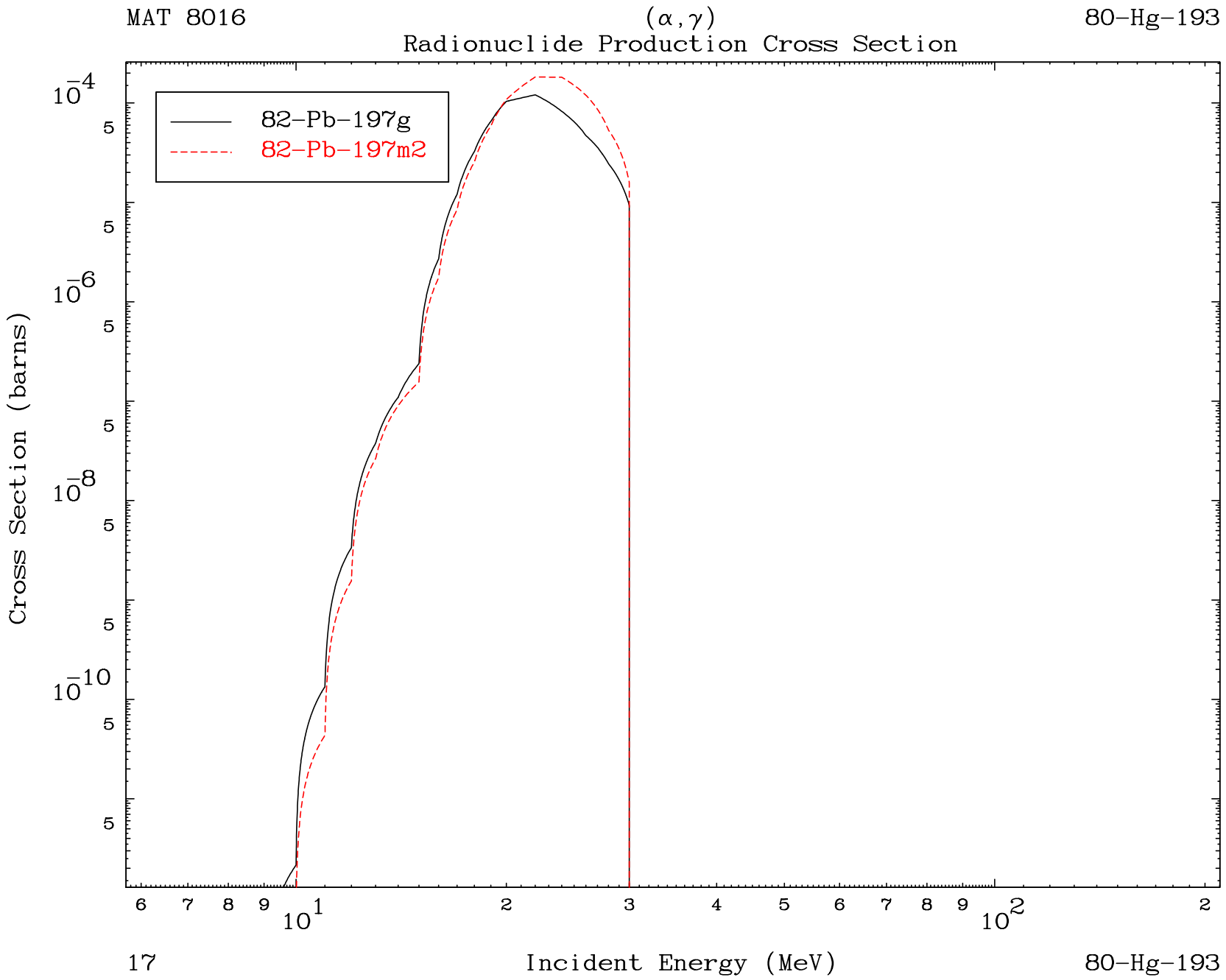

MAT 8016
α Fission
80-Hg-193
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
12
80-Hg-193

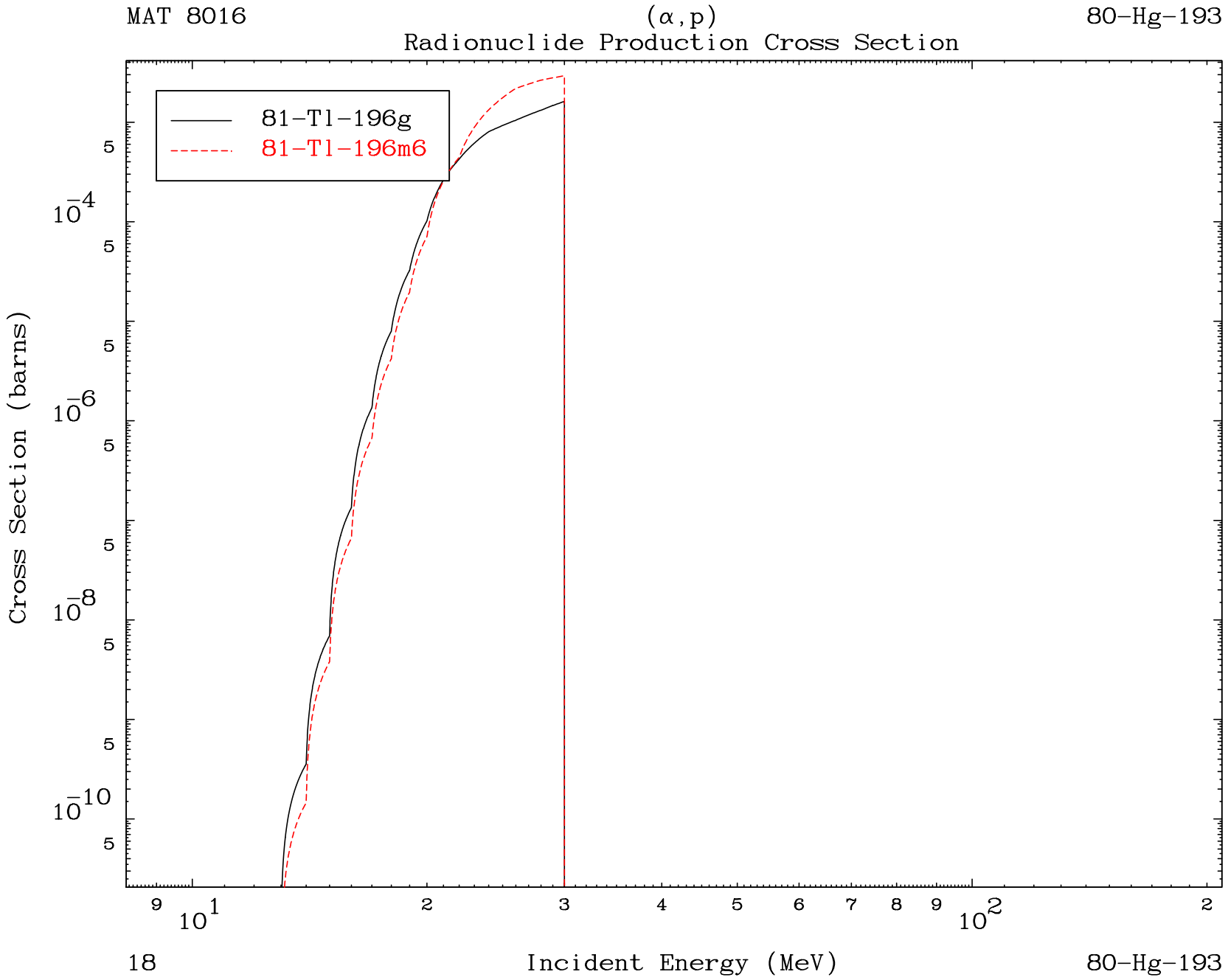

MAT 8016
(α,2n) α
80-Hg-193
Radionuclide Production Cross Section
80-Hg-191g
80-Hg-191m3
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
6
7
8
9
10 2
13
Incident Energy (MeV)
80-Hg-193

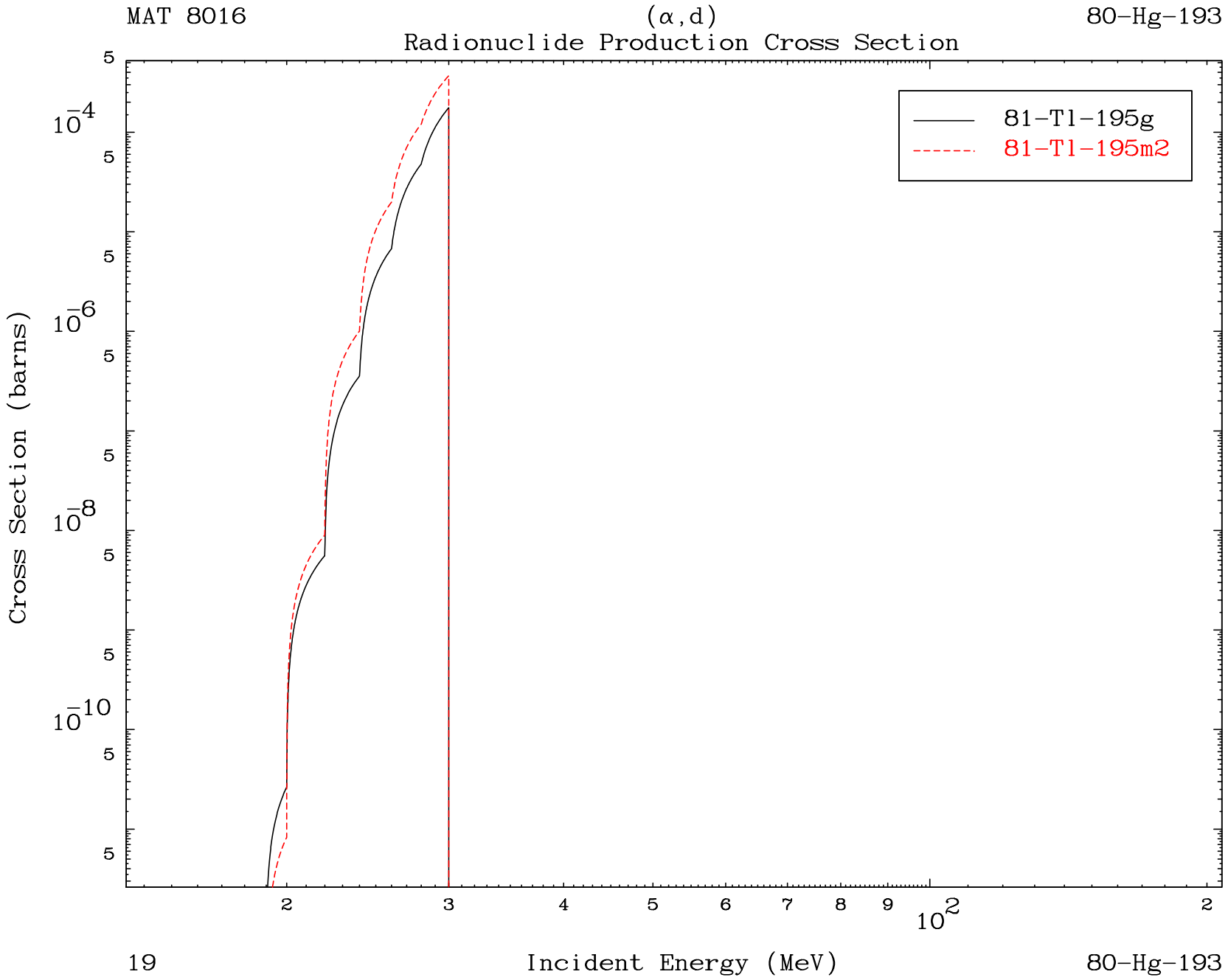

MAT 8016
(α,n') p
80-Hg-193
Radionuclide Production Cross Section
81-Tl-195g
81-Tl-195m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
6
7
8
9
10 2
14
Incident Energy (MeV)
80-Hg-193

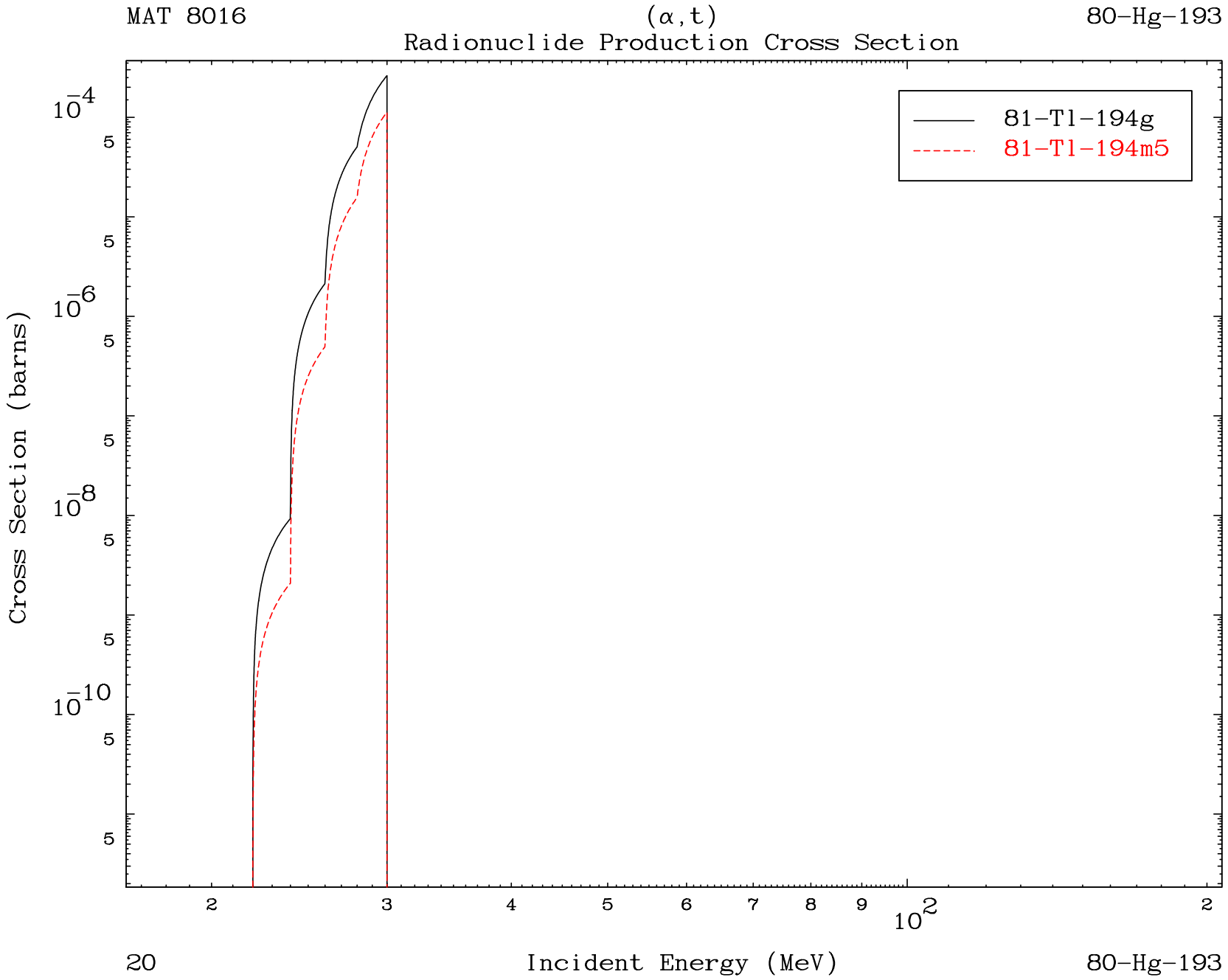

MAT 8016
(α,n') d
80-Hg-193
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m5
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
80-Hg-193

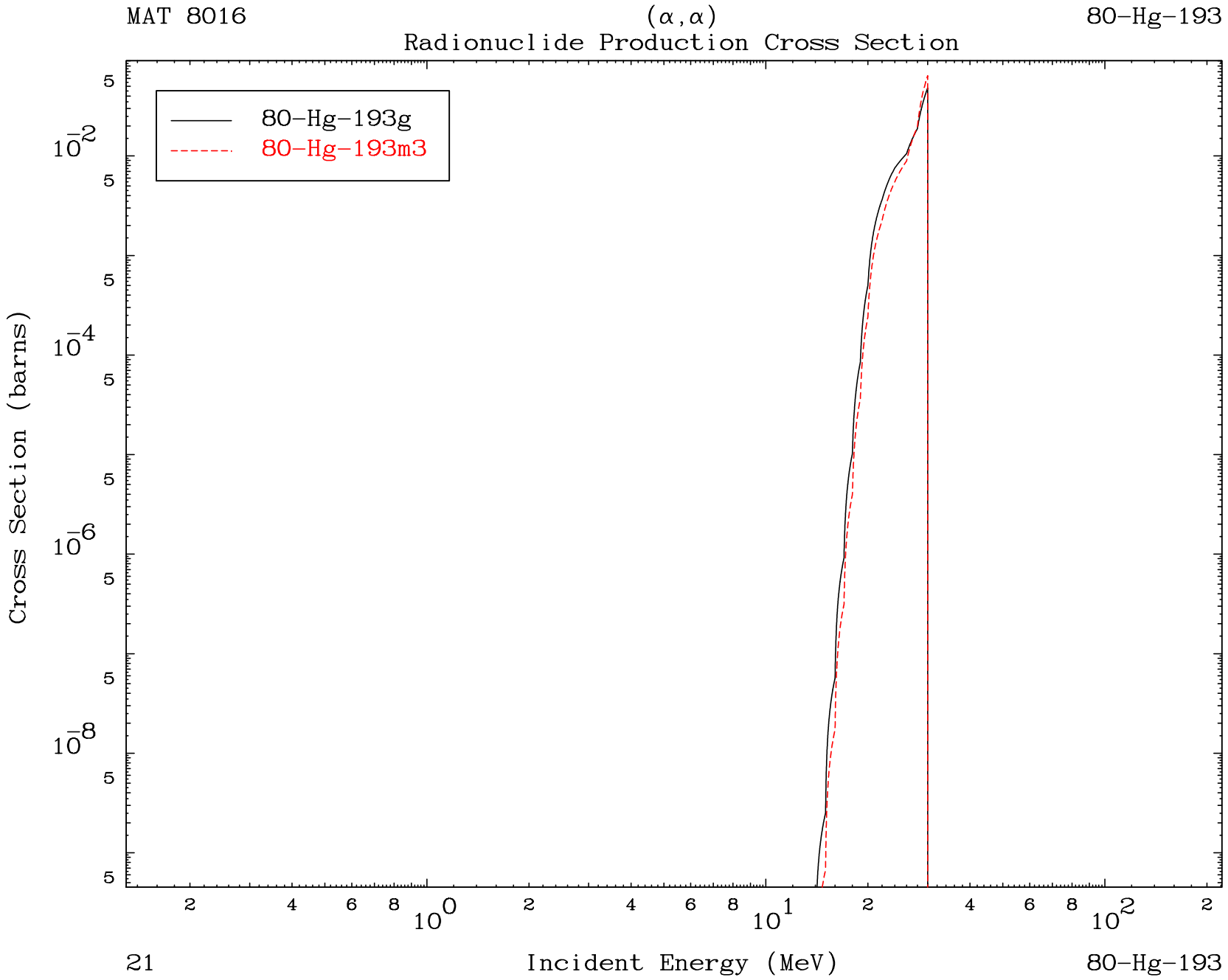

MAT 8016
(α,2n) p
80-Hg-193
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m5
Cross Section (barns)
10-7
10-8
10-9
10-10
10-11
10-12
10-13
5
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
80-Hg-193

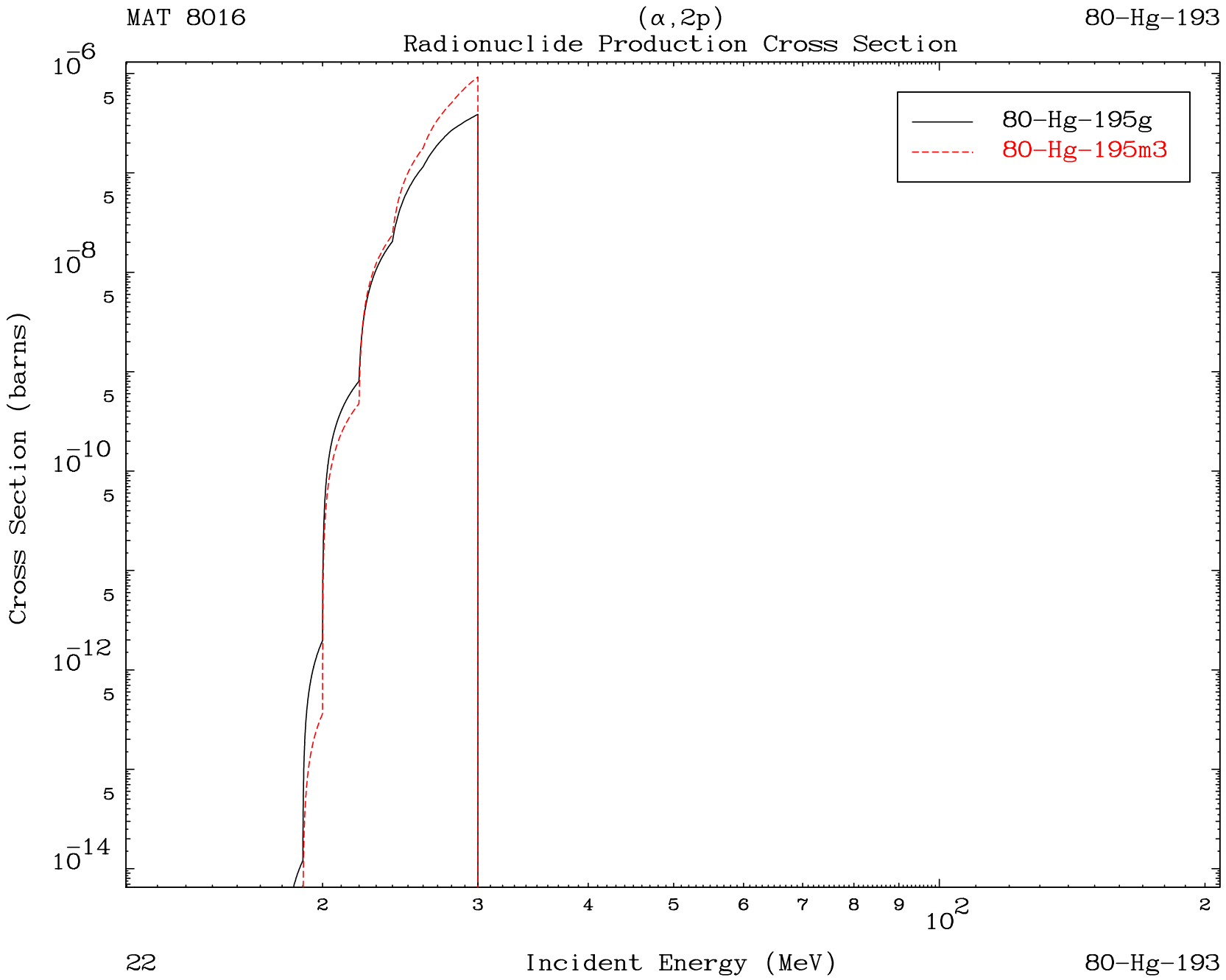

MAT 8016
(α,γ)
80-Hg-193
Radionuclide Production Cross Section
82-Pb-197g
82-Pb-197m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
17
80-Hg-193

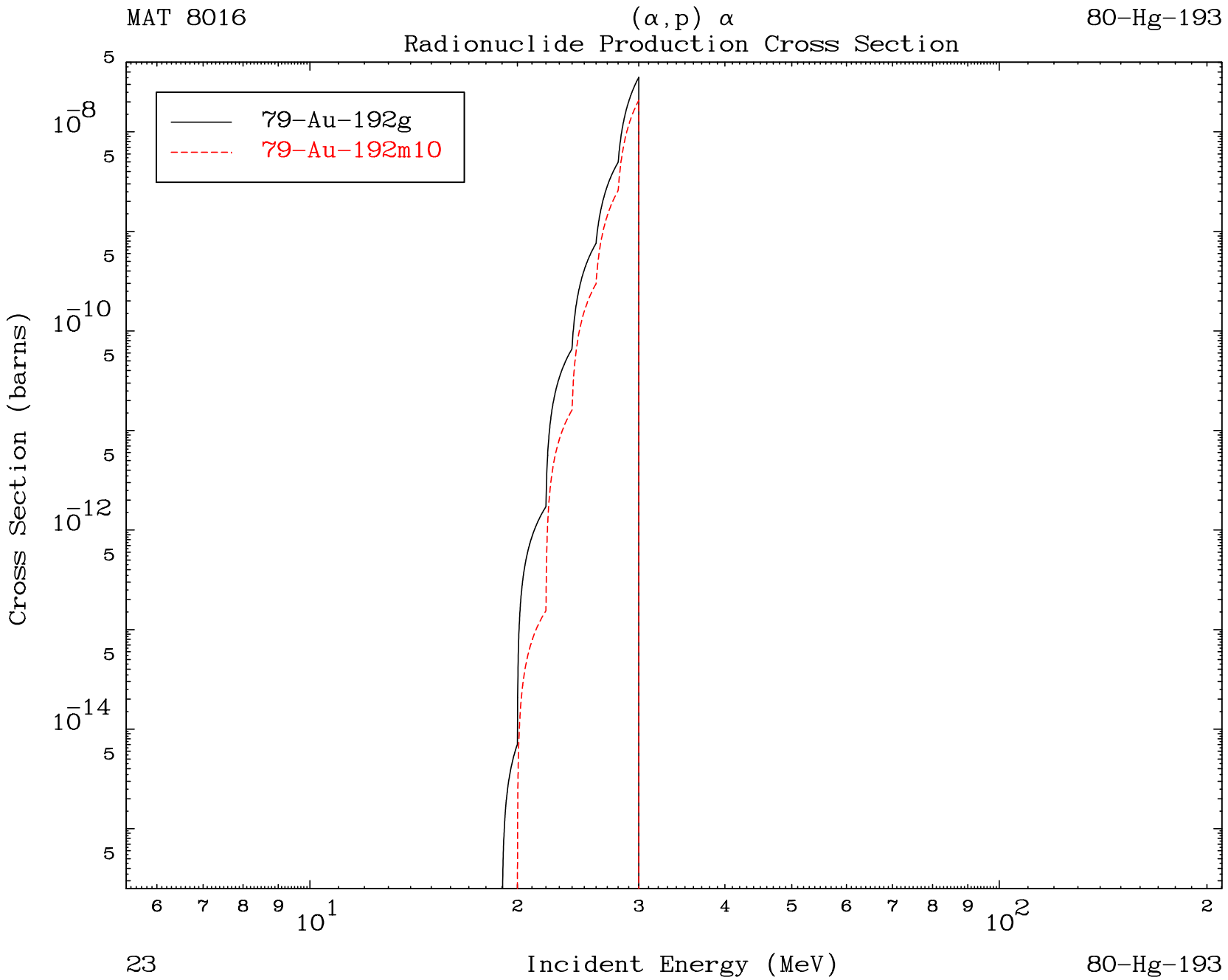

MAT 8016
(α,p)
80-Hg-193
Radionuclide Production Cross Section
81-Tl-196g
81-Tl-196m6
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
80-Hg-193


MAT 8016
(α,d)
80-Hg-193
Radionuclide Production Cross Section
81-Tl-195g
81-Tl-195m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
80-Hg-193


MAT 8016
(α,t)
80-Hg-193
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m5
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
20
80-Hg-193


MAT 8016
(α,α)
80-Hg-193
Radionuclide Production Cross Section
80-Hg-193g
80-Hg-193m3
Cross Section (barns)
Incident Energy (MeV)
21
80-Hg-193


MAT 8016
(α,2p)
80-Hg-193
Radionuclide Production Cross Section
80-Hg-195g
80-Hg-195m3
Cross Section (barns)
Incident Energy (MeV)
22
80-Hg-193


MAT 8016
(α,p) α
80-Hg-193
Radionuclide Production Cross Section
79-Au-192g
79-Au-192m10
Cross Section (barns)
Incident Energy (MeV)
23
80-Hg-193