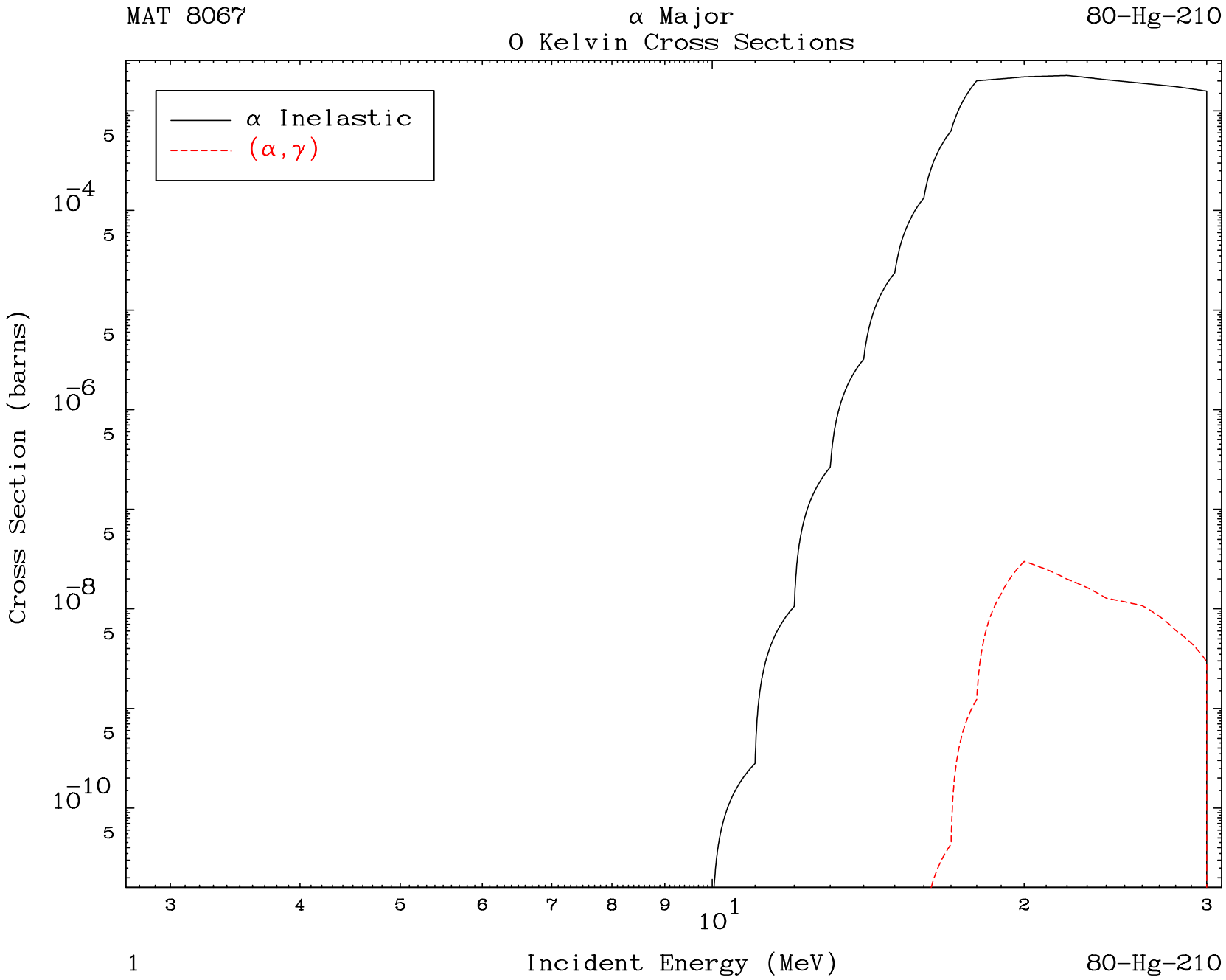
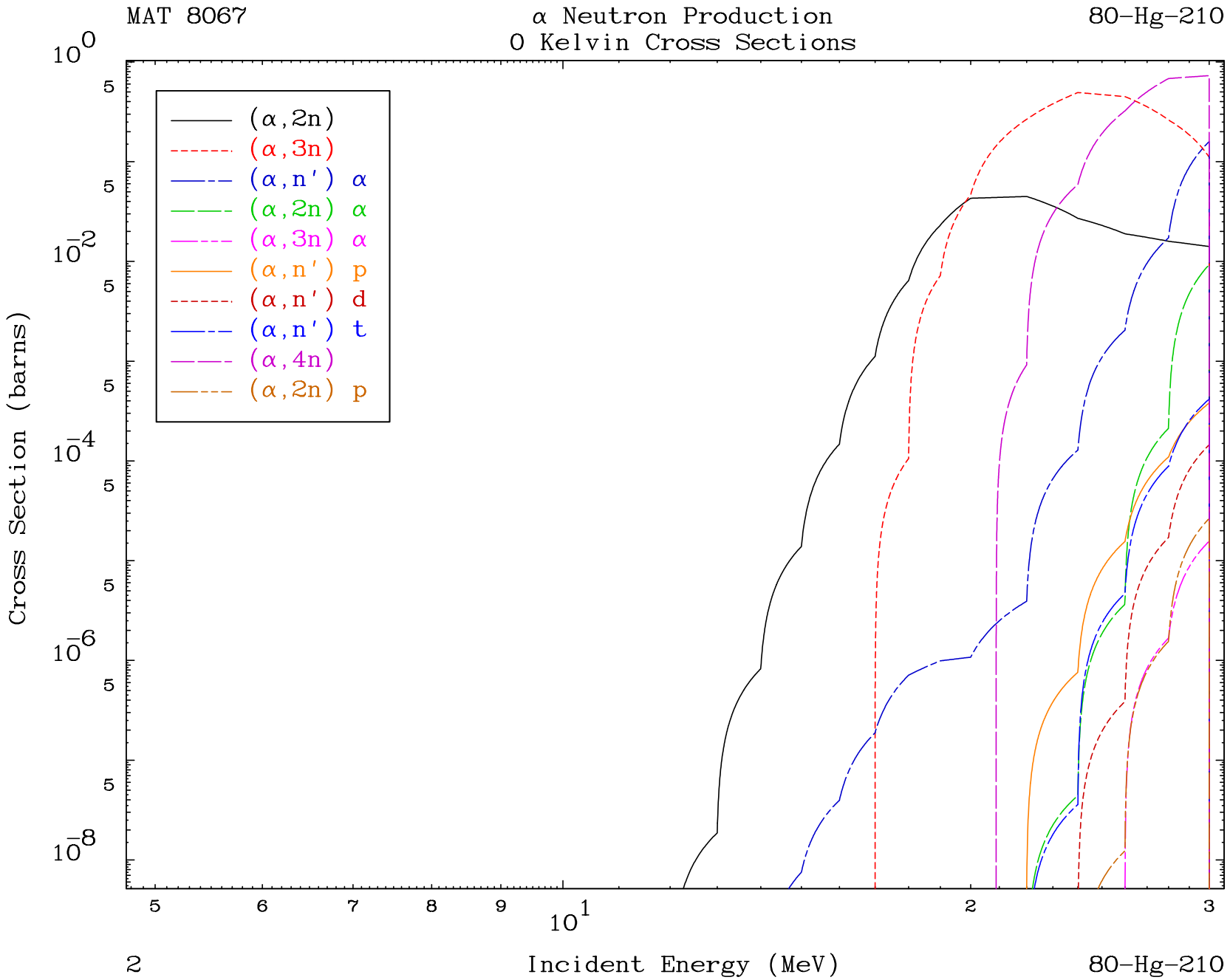
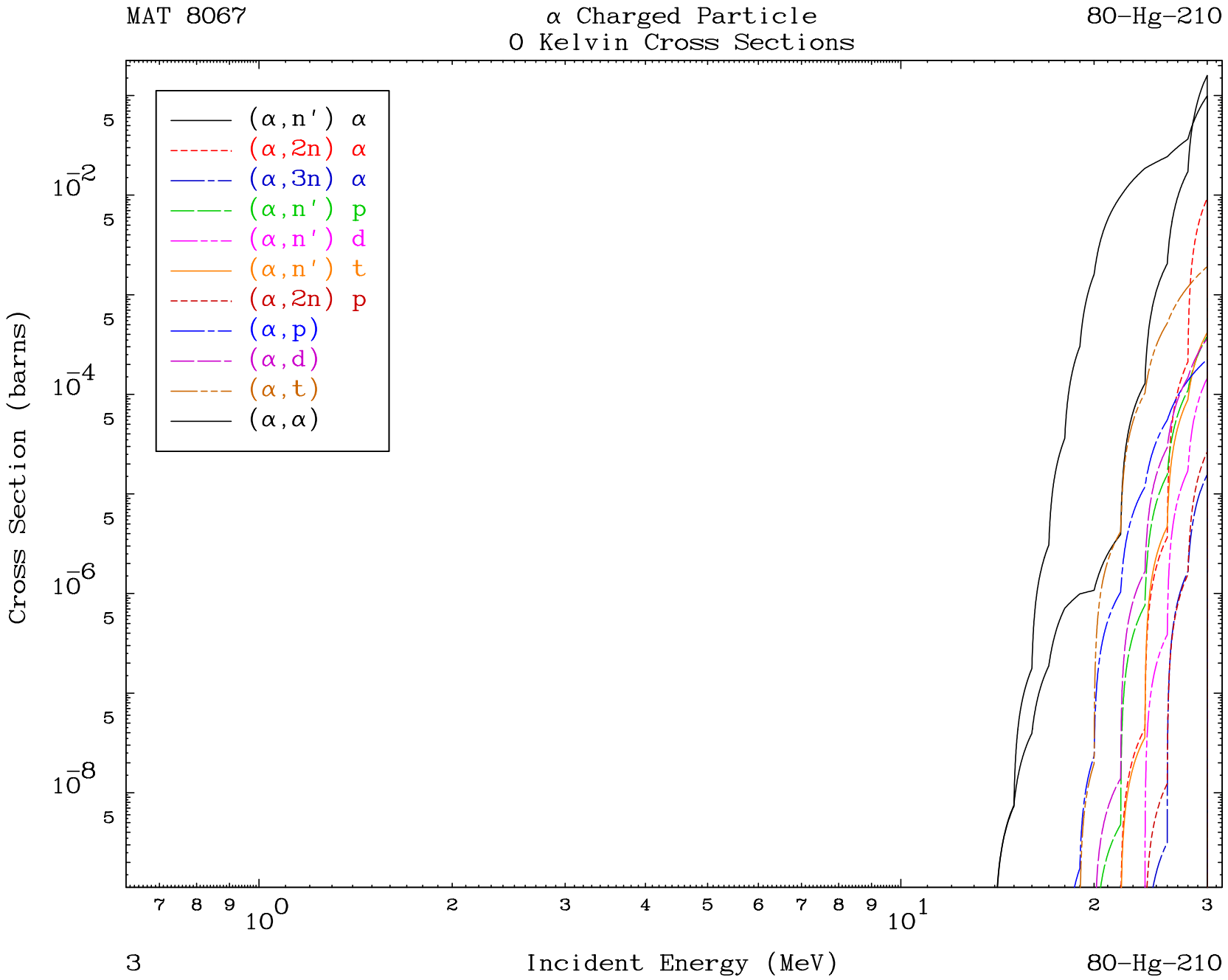
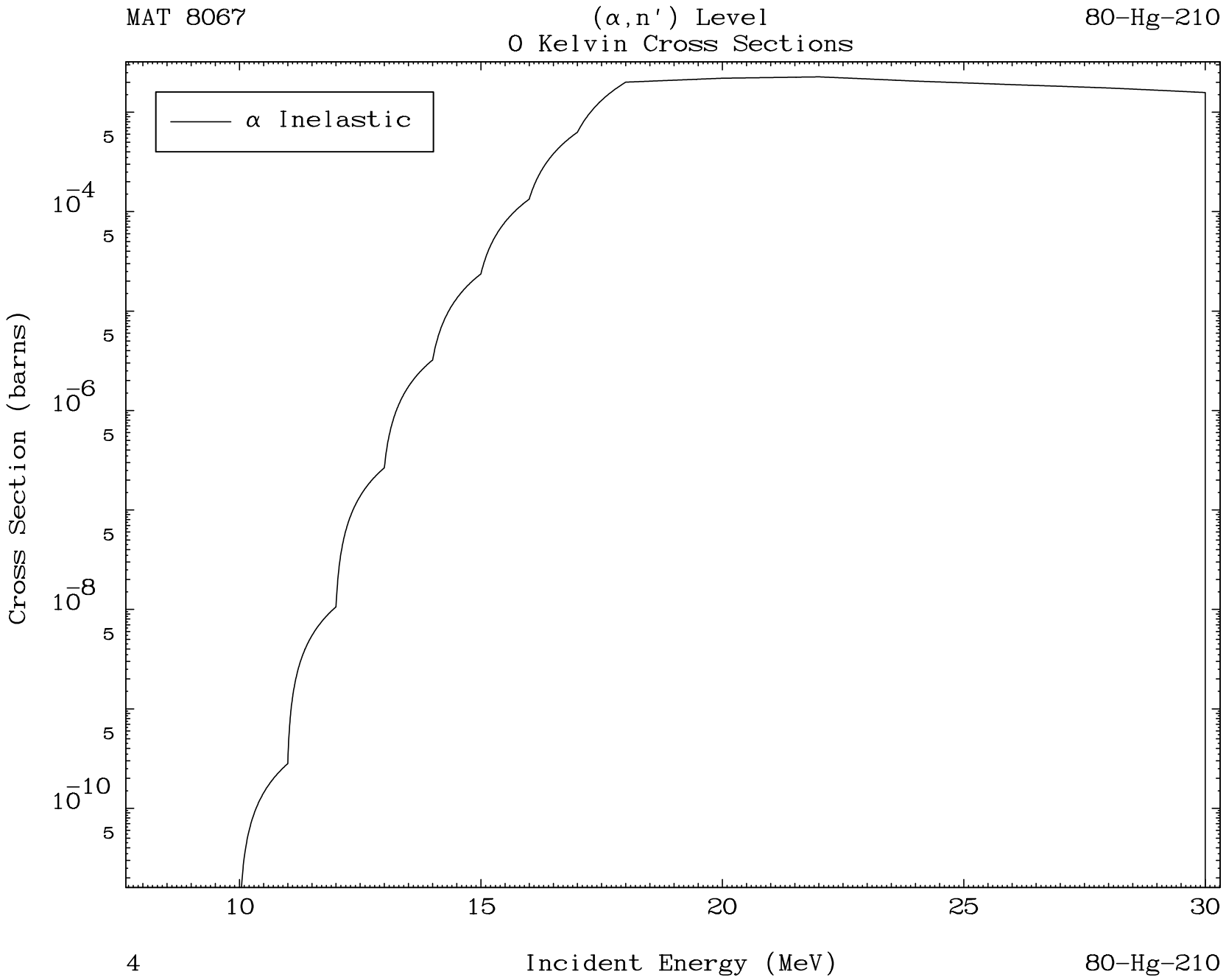
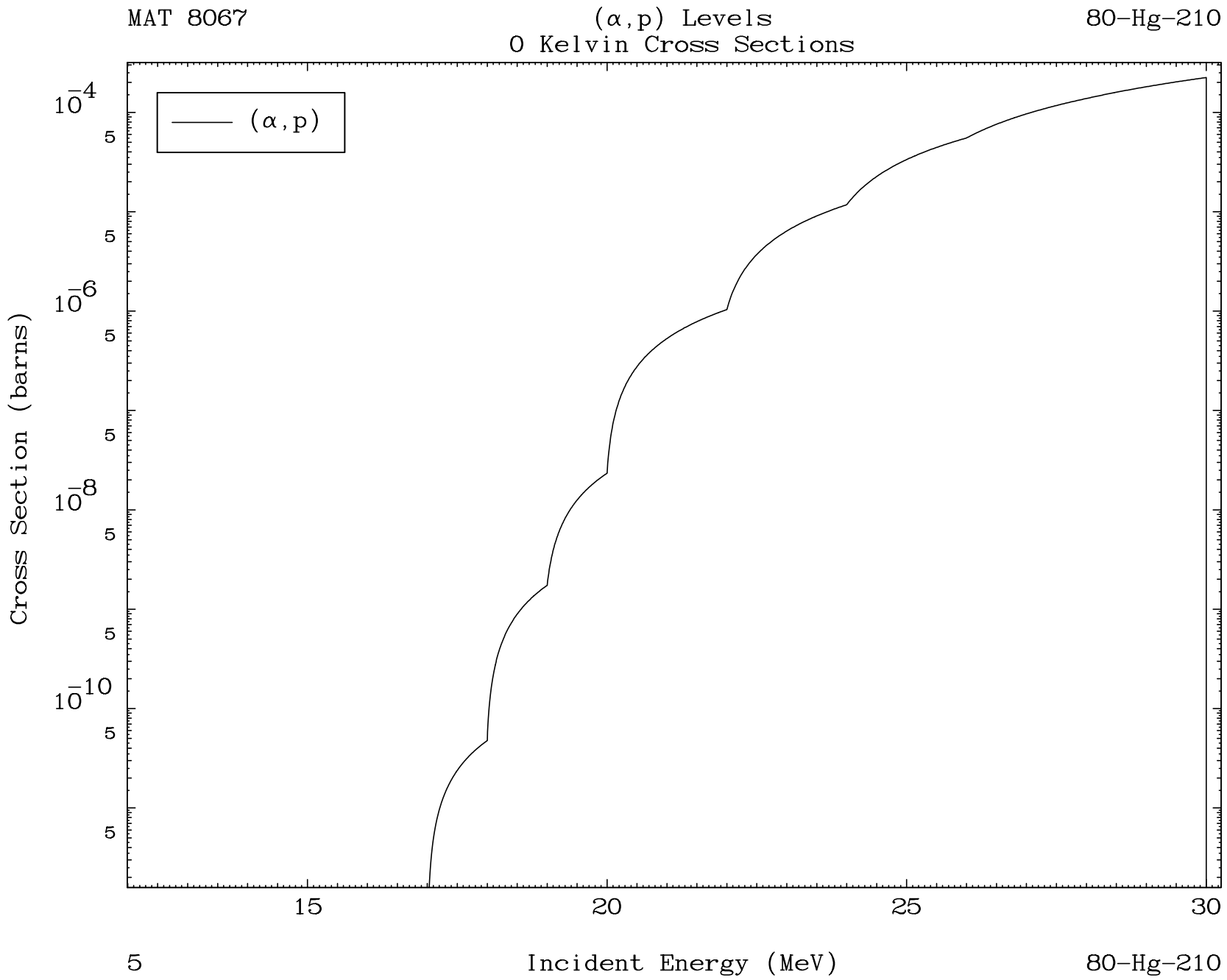
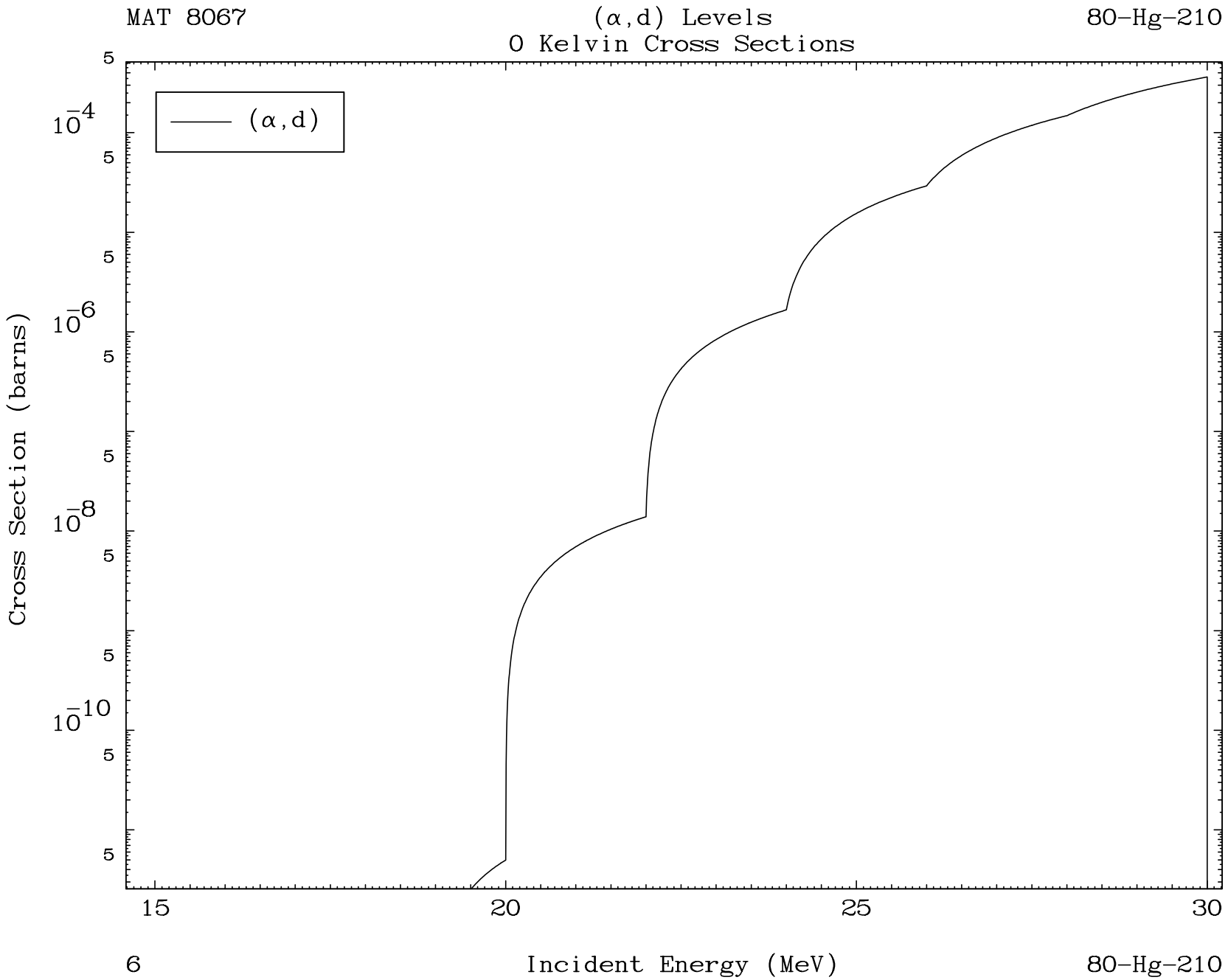

MAT 8067
α Major
80-Hg-210
0 Kelvin Cross Sections
α Inelastic
(α,γ)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
1
10 1
80-Hg-210

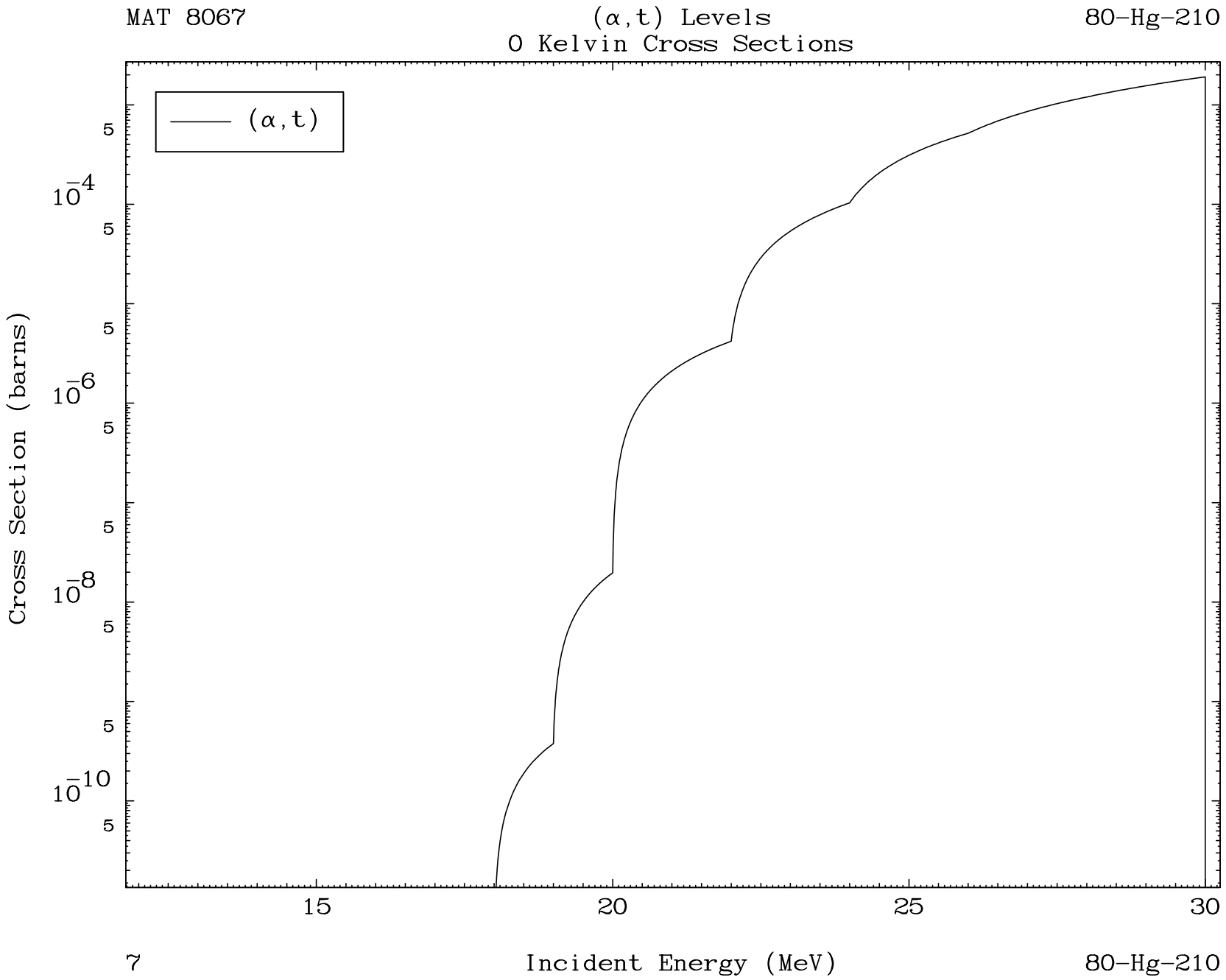

MAT 8067
α Neutron Production
0 Kelvin Cross Sections
80-Hg-210
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,4n)
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
80-Hg-210


MAT 8067
α Charged Particle
0 Kelvin Cross Sections
80-Hg-210
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
(α,p)
(α,d)
(α,t)
(α,α)
Cross Section (barns)
Incident Energy (MeV)
3
80-Hg-210

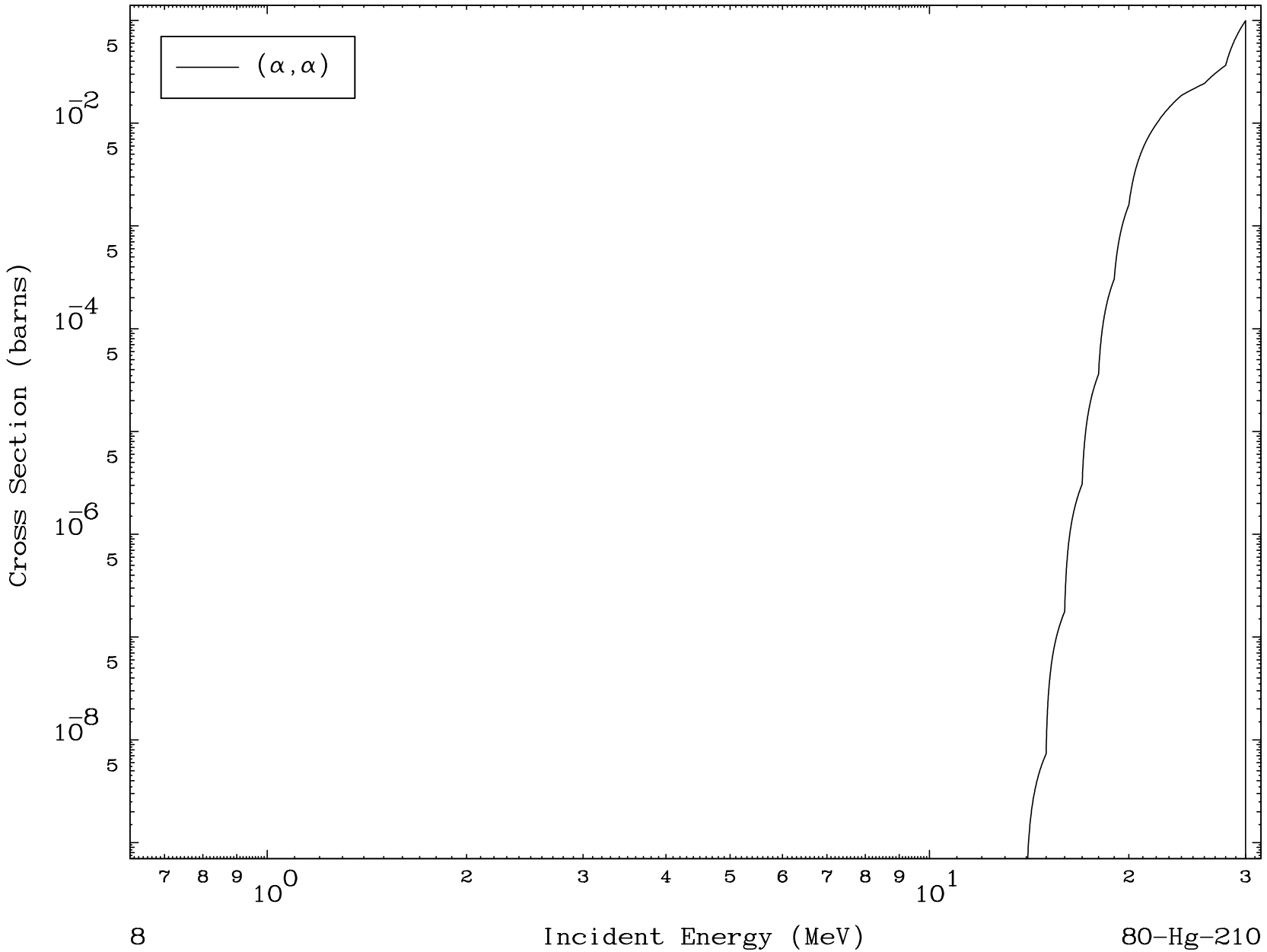

MAT 8067
(α,n') Level
80-Hg-210
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10
15
20
25
30
Incident Energy (MeV)
4
80-Hg-210

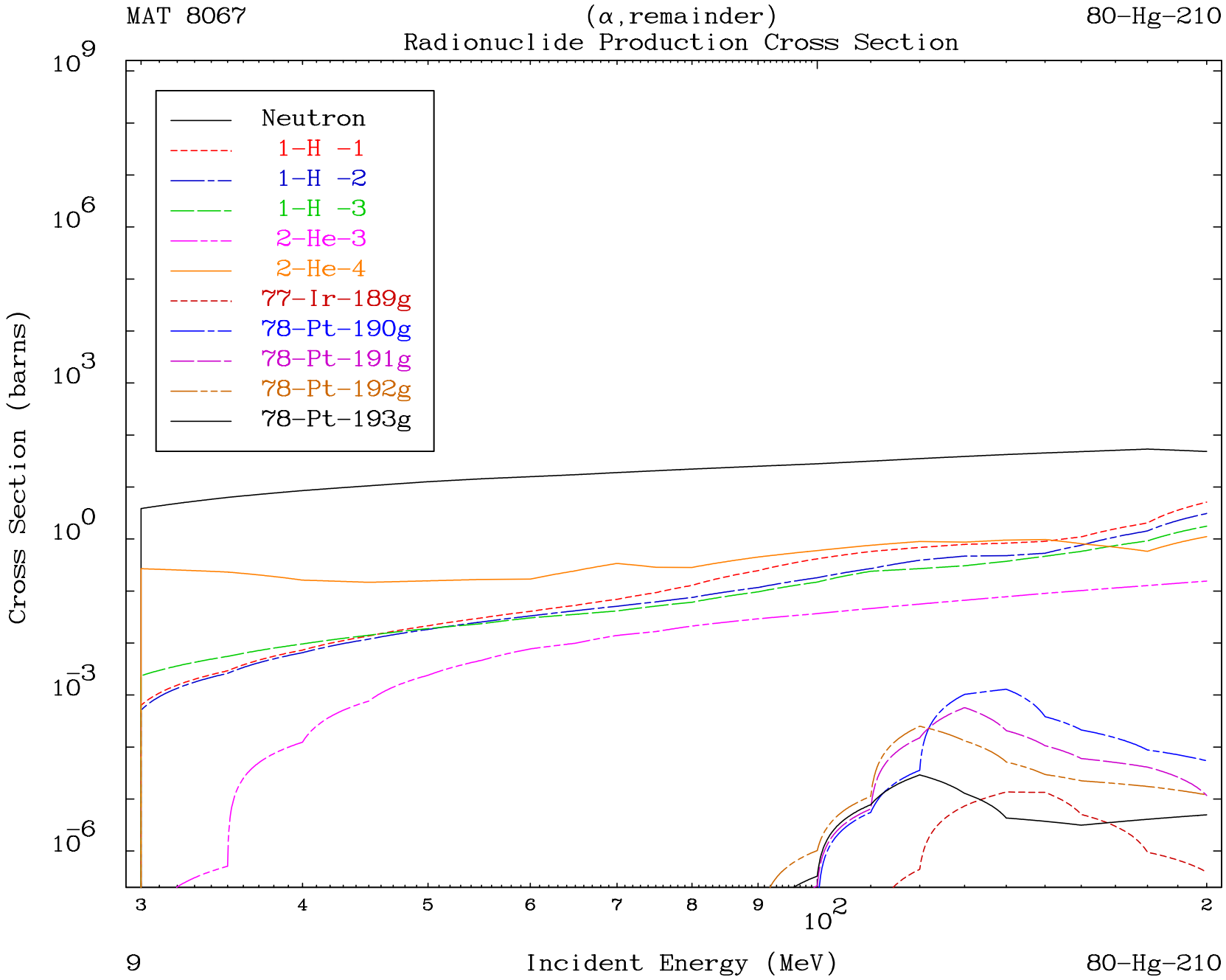

MAT 8067
(α,p) Levels
80-Hg-210
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
15
20
25
30
Incident Energy (MeV)
80-Hg-210

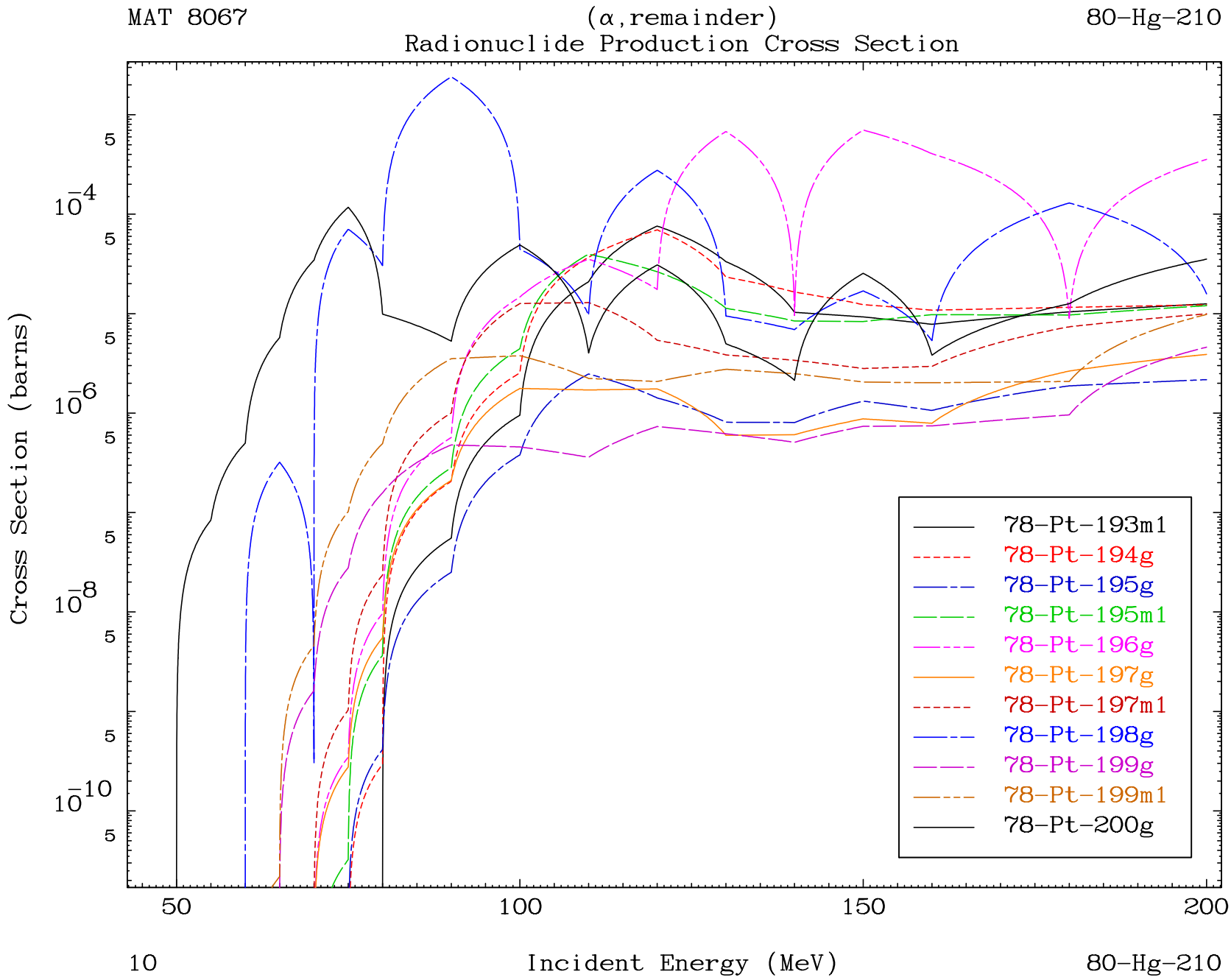

MAT 8067
(α,d) Levels
80-Hg-210
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
15
20
25
30
Incident Energy (MeV)
6
80-Hg-210

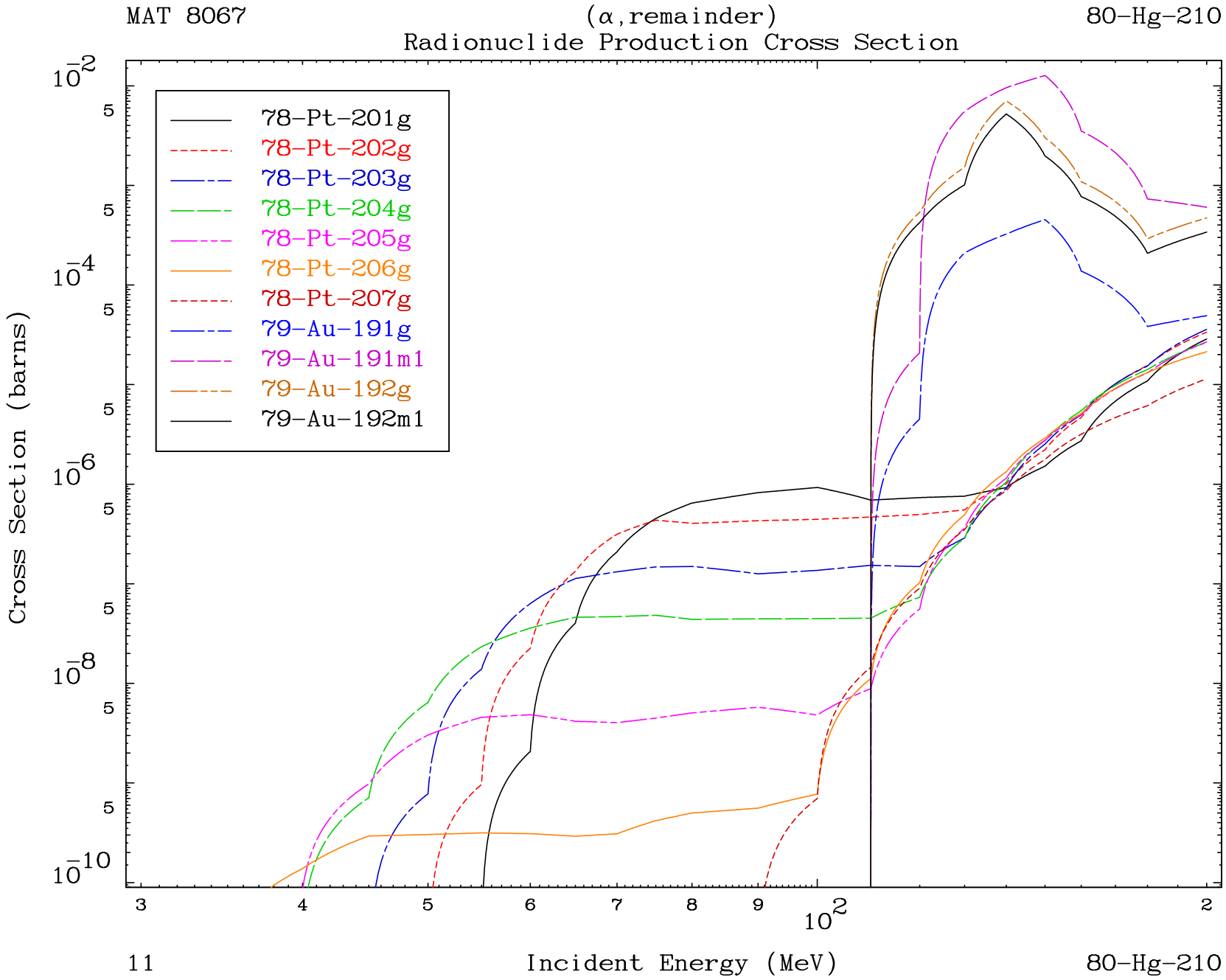

MAT 8067
(α,t) Levels
80-Hg-210
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
15
20
25
30
7
Incident Energy (MeV)
80-Hg-210

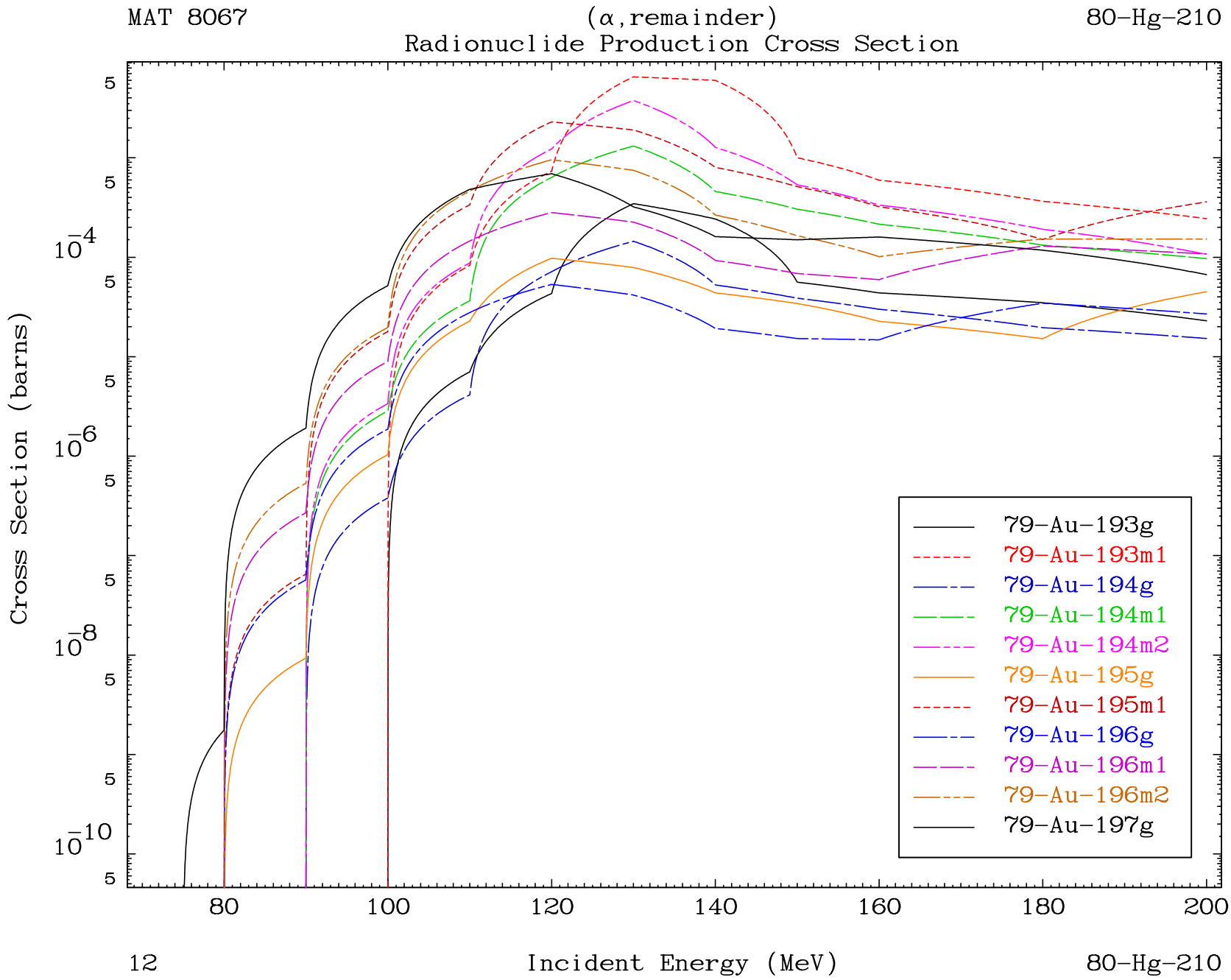
0 Kelvin Cross Sections



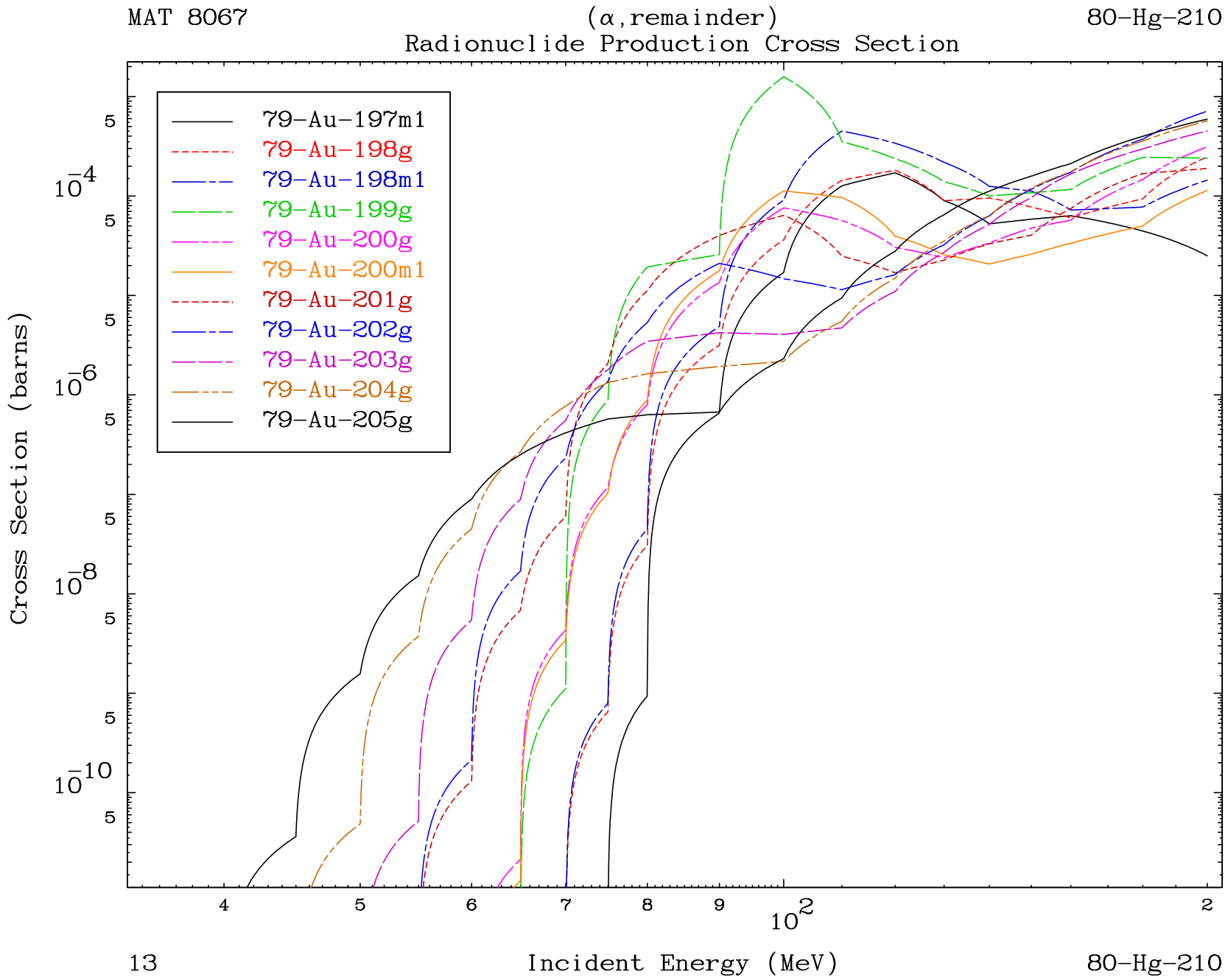

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
77-Ir-189g
78-Pt-190g
78-Pt-191g
78-Pt-192g
78-Pt-193g
Cross Section (barns)
Incident Energy (MeV)
80-Hg-210

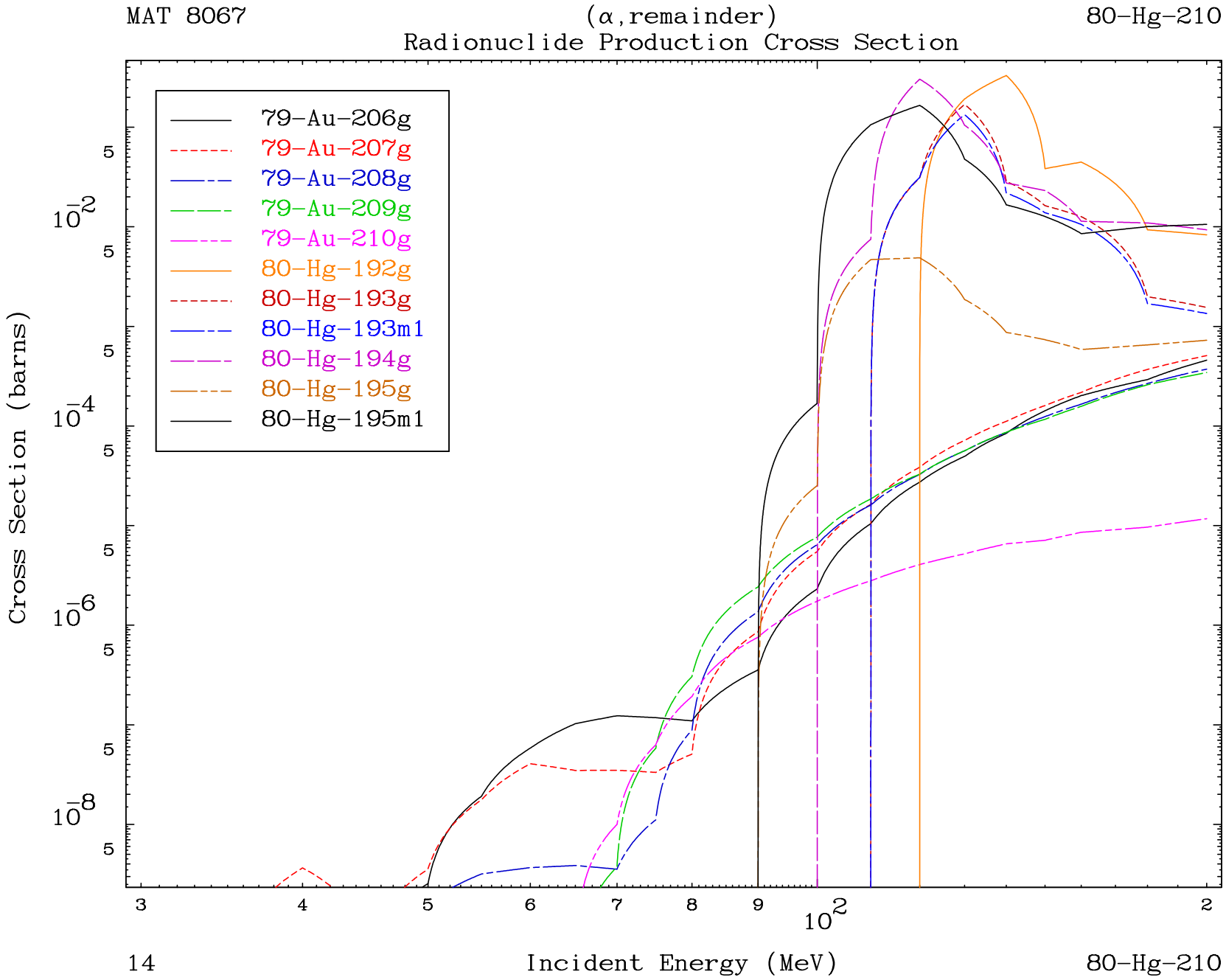

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
50
100
150
200
10
Incident Energy (MeV)
80-Hg-210
78-Pt-193m1
78-Pt-194g
78-Pt-195g
78-Pt-195m1
78-Pt-196g
78-Pt-197g
78-Pt-197m1
78-Pt-198g
78-Pt-199g
78-Pt-199m1
78-Pt-200g

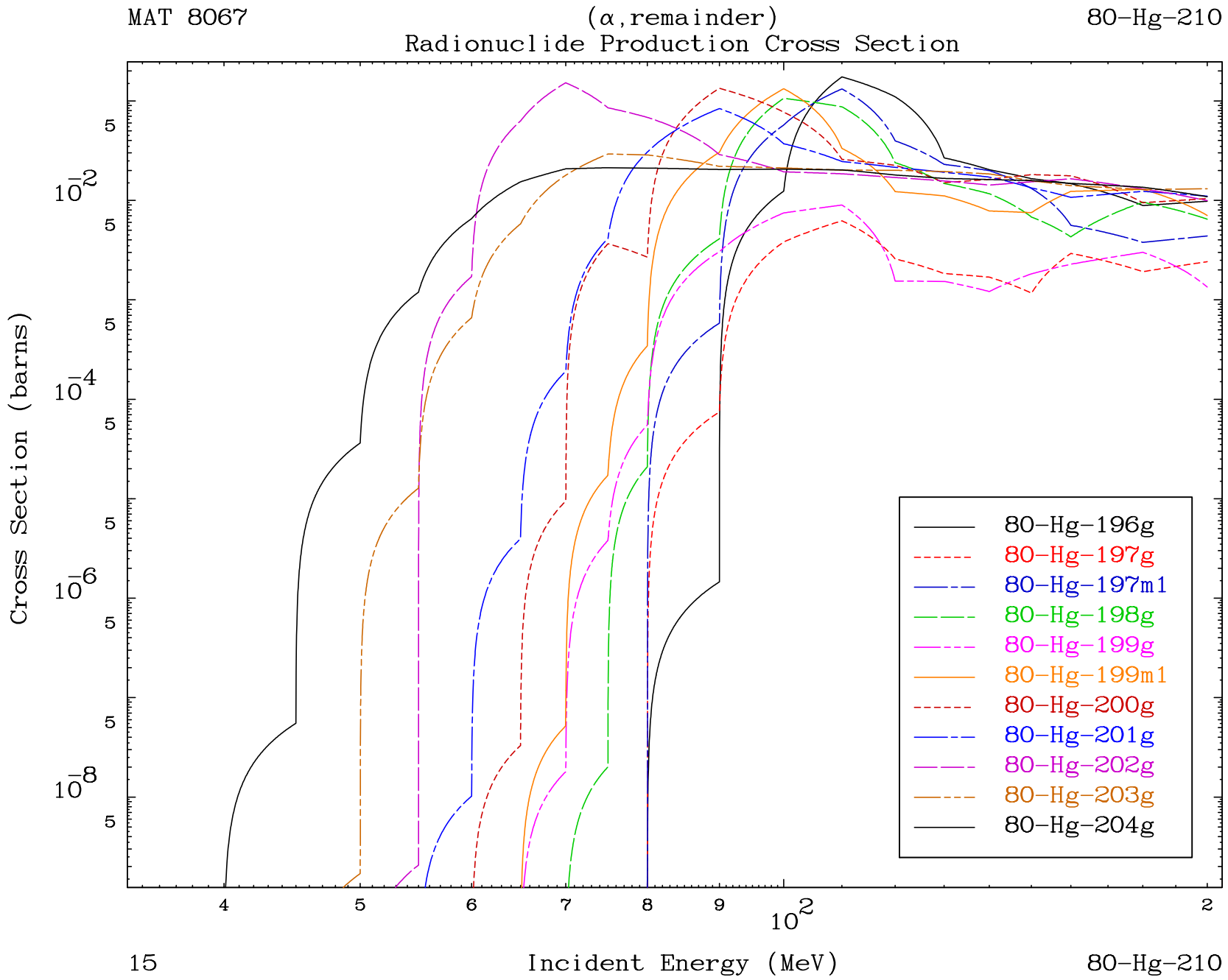

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
78-Pt-201g
78-Pt-202g
78-Pt-203g
78-Pt-204g
78-Pt-205g
78-Pt-206g
78-Pt-207g
79-Au-191g
79-Au-191m1
79-Au-192g
79-Au-192m1
Cross Section (barns)
Incident Energy (MeV)
11
80-Hg-210


MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
80
100
120
140
160
180
200
Incident Energy (MeV)
79-Au-193g
79-Au-193m1
79-Au-194g
79-Au-194m1
79-Au-194m2
79-Au-195g
79-Au-195m1
79-Au-196g
79-Au-196m1
79-Au-196m2
79-Au-197g

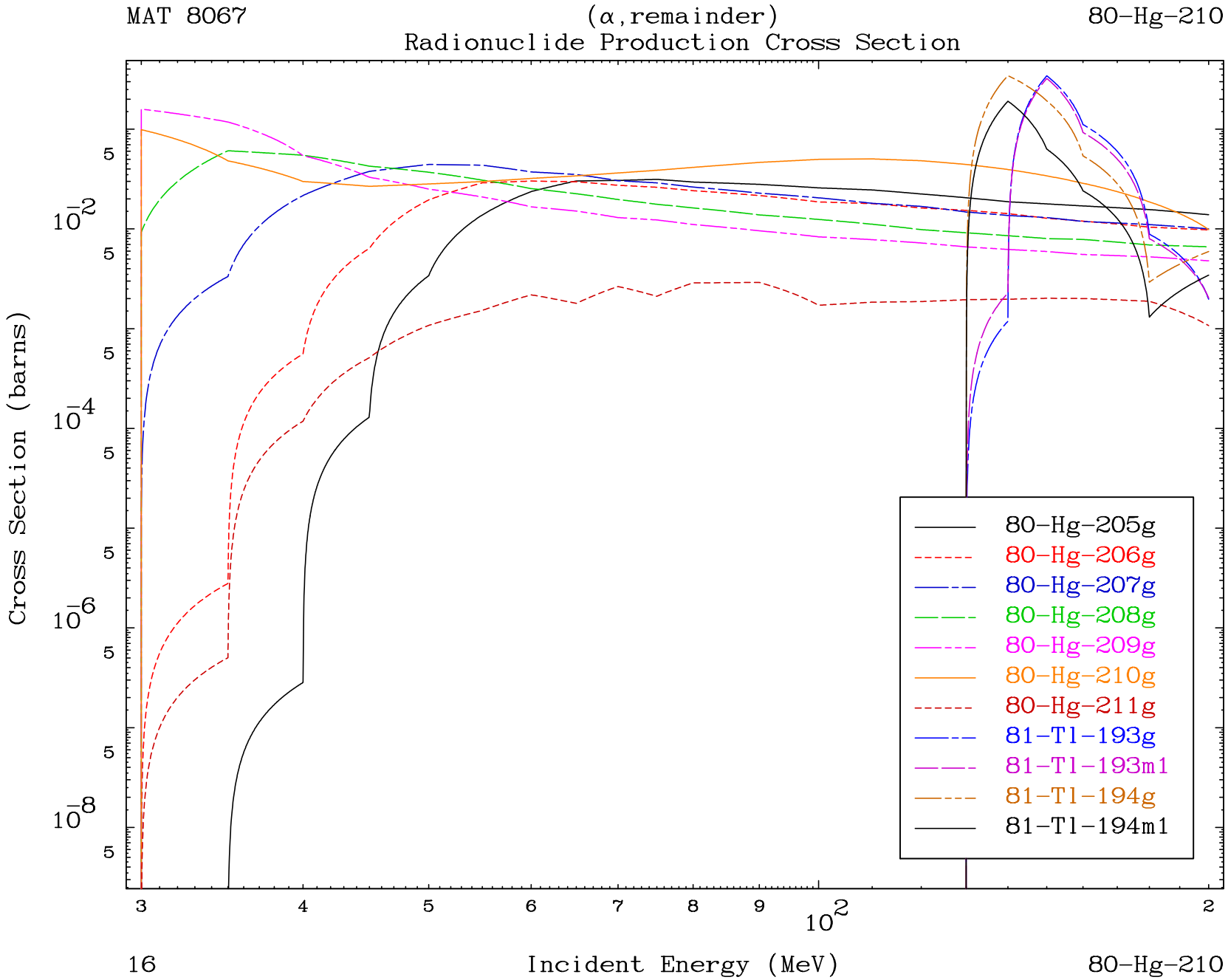
80-Hg-210

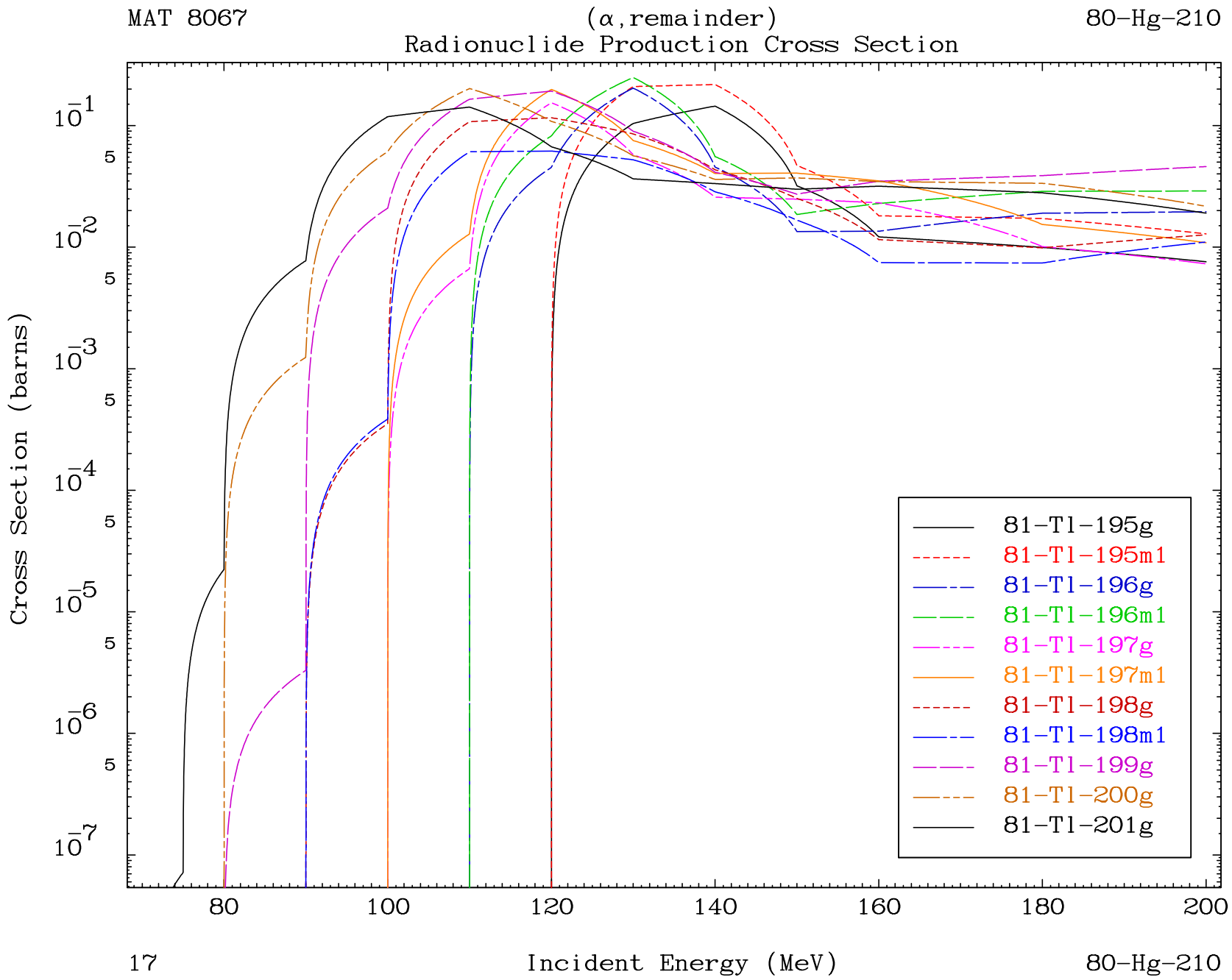

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
79-Au-197m1
79-Au-198g
79-Au-198m1
79-Au-199g
79-Au-200g
79-Au-200m1
79-Au-201g
79-Au-202g
79-Au-203g
79-Au-204g
79-Au-205g
Cross Section (barns)
10-4
10-6
10-8
10-10
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
80-Hg-210

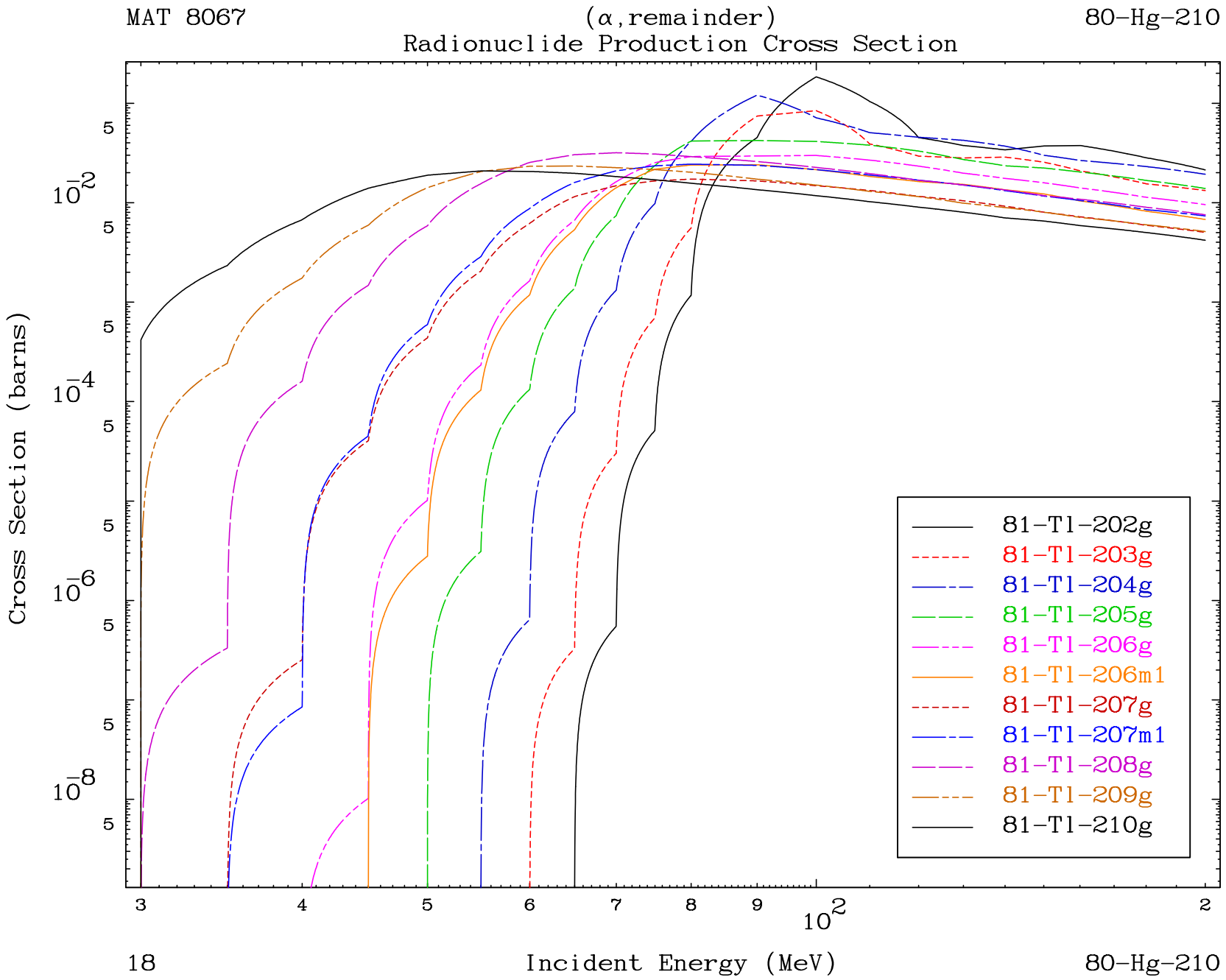

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
79-Au-206g
79-Au-207g
79-Au-208g
79-Au-209g
79-Au-210g
80-Hg-192g
80-Hg-193g
80-Hg-193m1
80-Hg-194g
80-Hg-195g
80-Hg-195m1
Cross Section (barns)
10-2
10-4
10-6
10-8
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
80-Hg-210

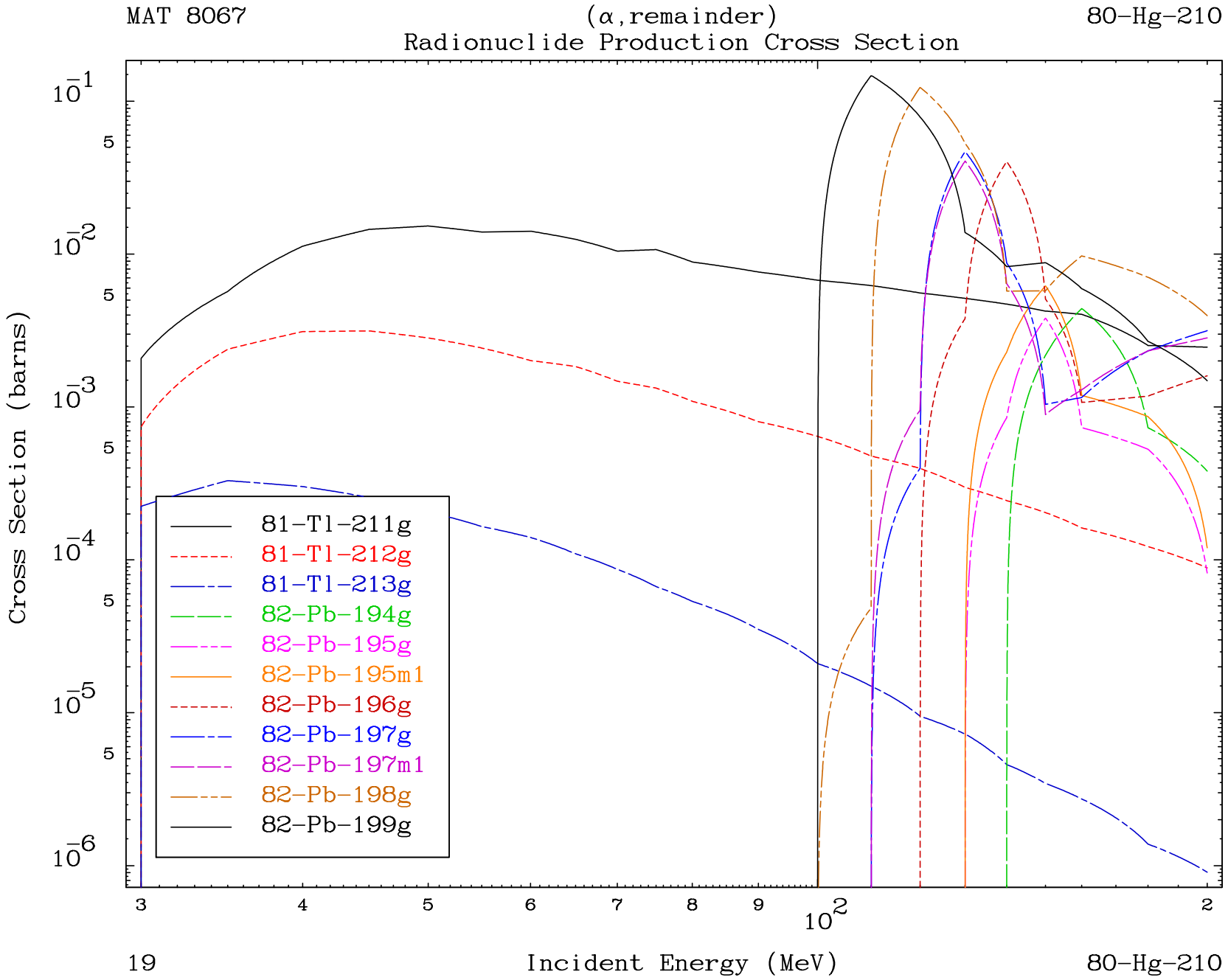

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
80-Hg-196g
80-Hg-197g
80-Hg-197m1
80-Hg-198g
80-Hg-199g
80-Hg-199m1
80-Hg-200g
80-Hg-201g
80-Hg-202g
80-Hg-203g
80-Hg-204g

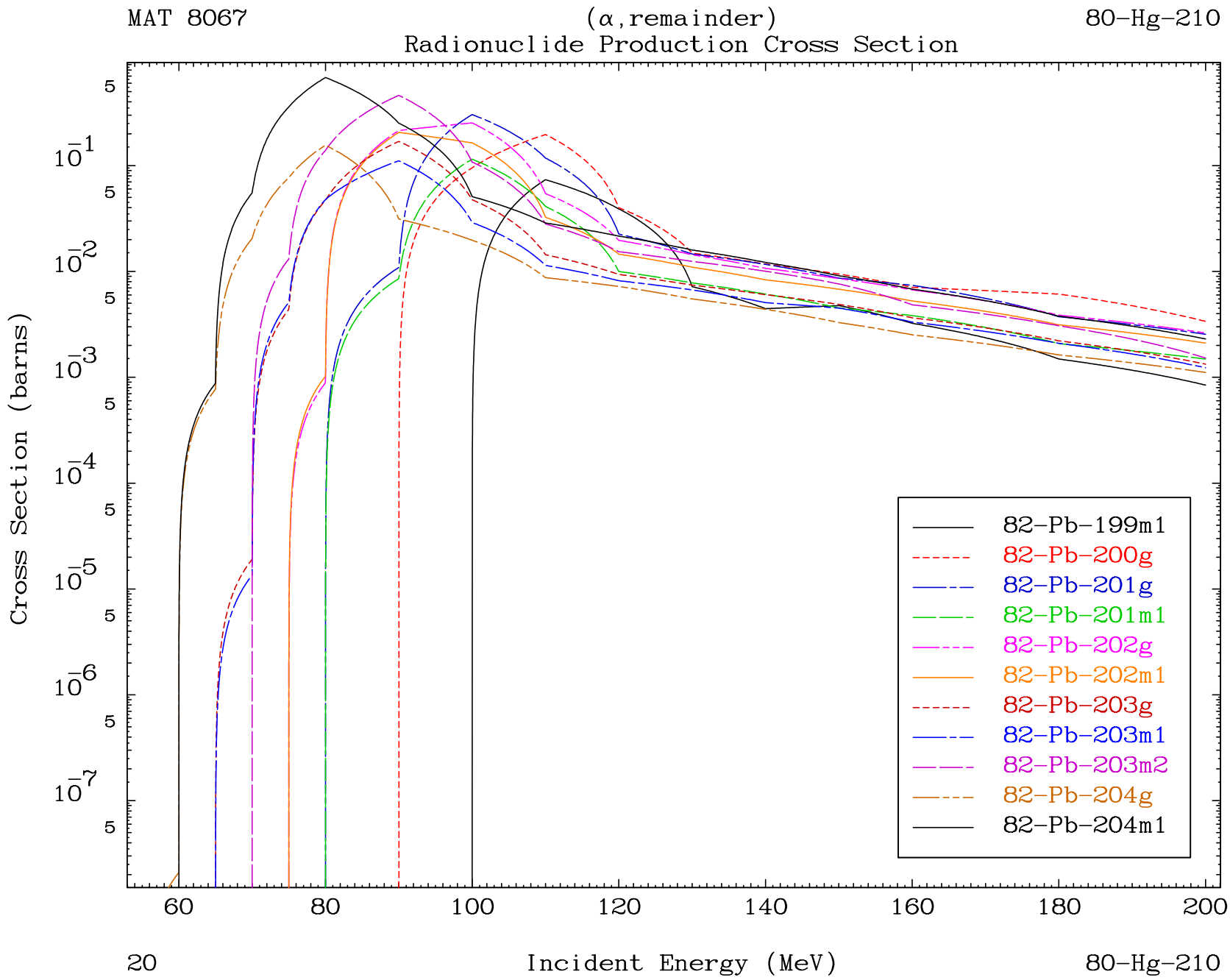
80-Hg-210

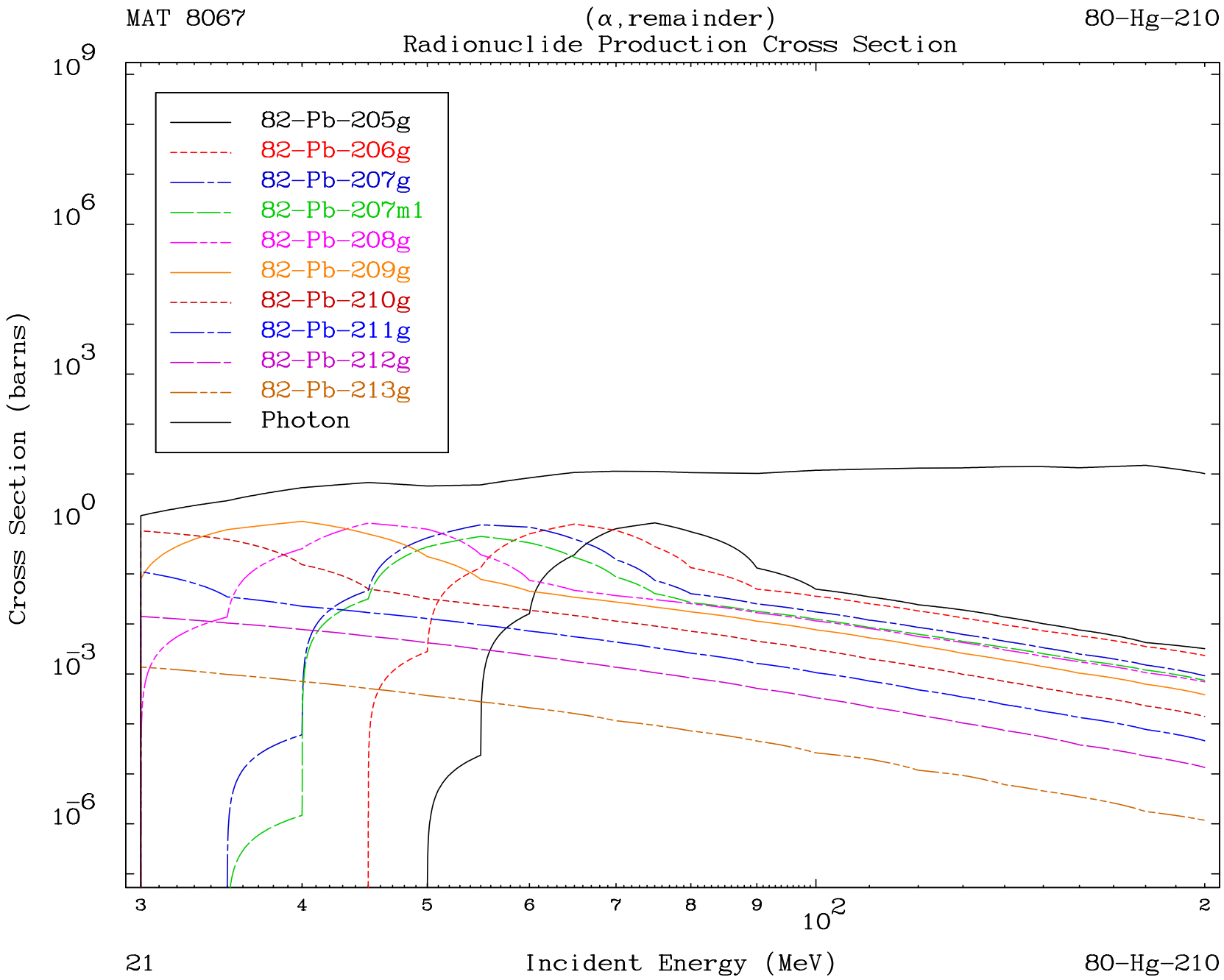

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
16
80-Hg-210
80-Hg-205g
80-Hg-206g
80-Hg-207g
80-Hg-208g
80-Hg-209g
80-Hg-210g
80-Hg-211g
81-Tl-193g
81-Tl-193m1
81-Tl-194g
81-Tl-194m1

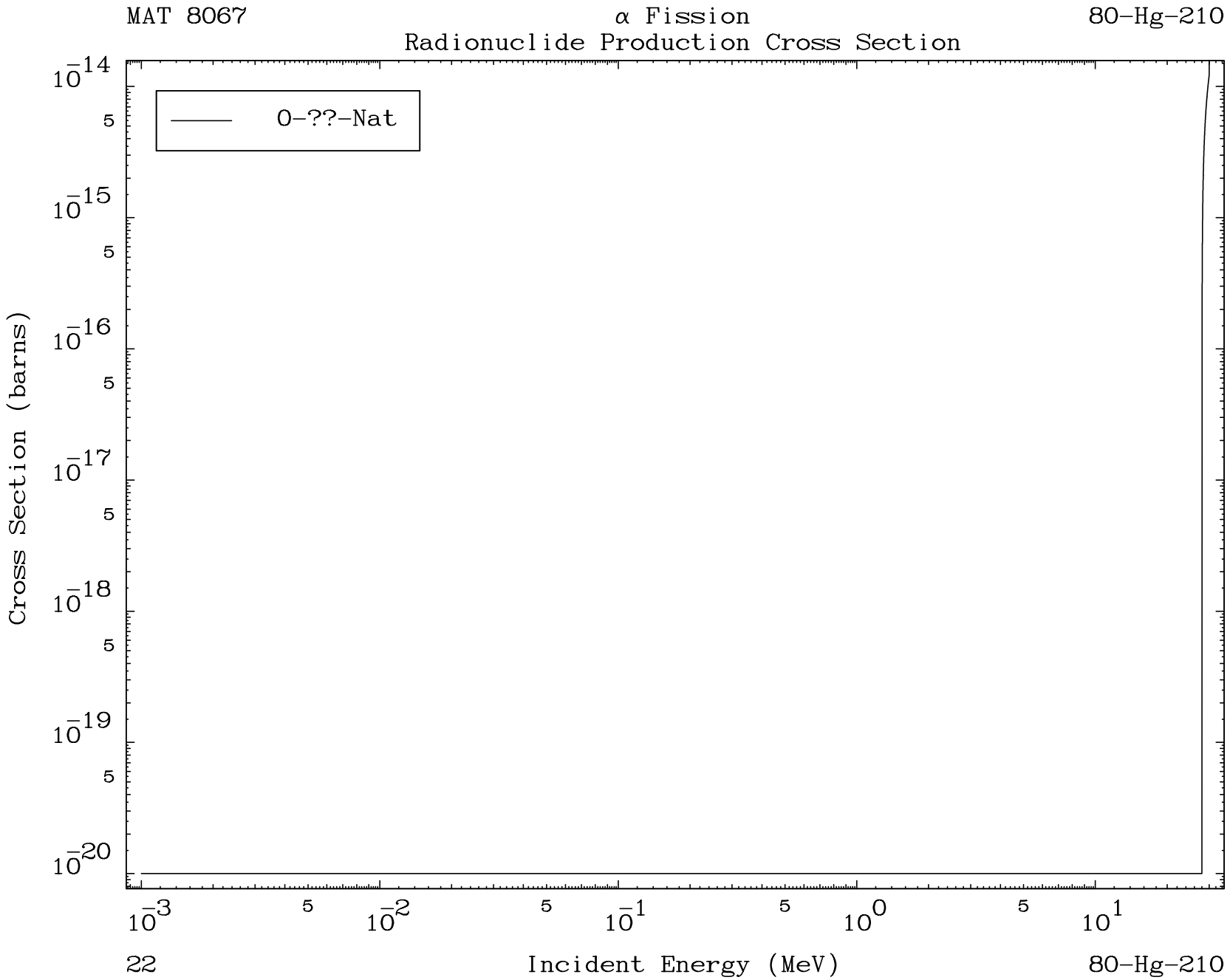

MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-7
5
80
100
120
140
160
180
200
Incident Energy (MeV)
81-Tl-195g
81-Tl-195m1
81-Tl-196g
81-Tl-196m1
81-Tl-197g
81-Tl-197m1
81-Tl-198g
81-Tl-198m1
81-Tl-199g
81-Tl-200g
81-Tl-201g


MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
81-Tl-202g
81-Tl-203g
81-Tl-204g
81-Tl-205g
81-Tl-206g
81-Tl-206m1
81-Tl-207g
81-Tl-207m1
81-Tl-208g
81-Tl-209g
81-Tl-210g


MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
5
3
4
5
6
7
8
9
10 2
2
81-Tl-211g
81-Tl-212g
81-Tl-213g
82-Pb-194g
82-Pb-195g
82-Pb-195m1
82-Pb-196g
82-Pb-197g
82-Pb-197m1
82-Pb-198g
82-Pb-199g
19
Incident Energy (MeV)
80-Hg-210


MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
Cross Section (barns)
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
5
60
80
100
120
140
160
180
200
20
Incident Energy (MeV)
80-Hg-210
82-Pb-199m1
82-Pb-200g
82-Pb-201g
82-Pb-201m1
82-Pb-202g
82-Pb-202m1
82-Pb-203g
82-Pb-203m1
82-Pb-203m2
82-Pb-204g
82-Pb-204m1


MAT 8067
(α,remainder)
80-Hg-210
Radionuclide Production Cross Section
82-Pb-205g
82-Pb-206g
82-Pb-207g
82-Pb-207m1
82-Pb-208g
82-Pb-209g
82-Pb-210g
82-Pb-211g
82-Pb-212g
82-Pb-213g
Photon
Cross Section (barns)
10^9
10^6
10^3
10^0
10^-3
10^-6
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
80-Hg-210


MAT 8067
α Fission
80-Hg-210
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
22
80-Hg-210