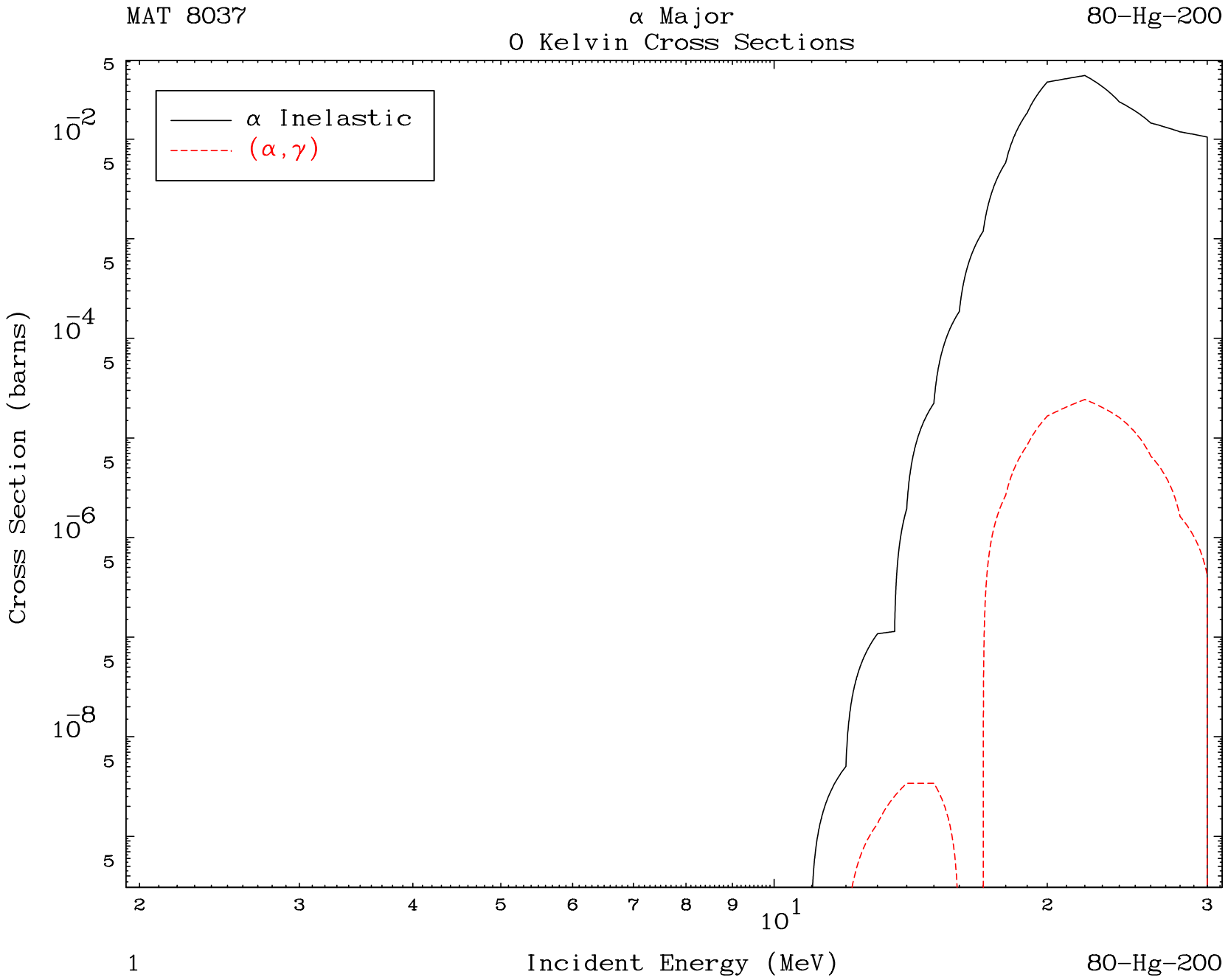
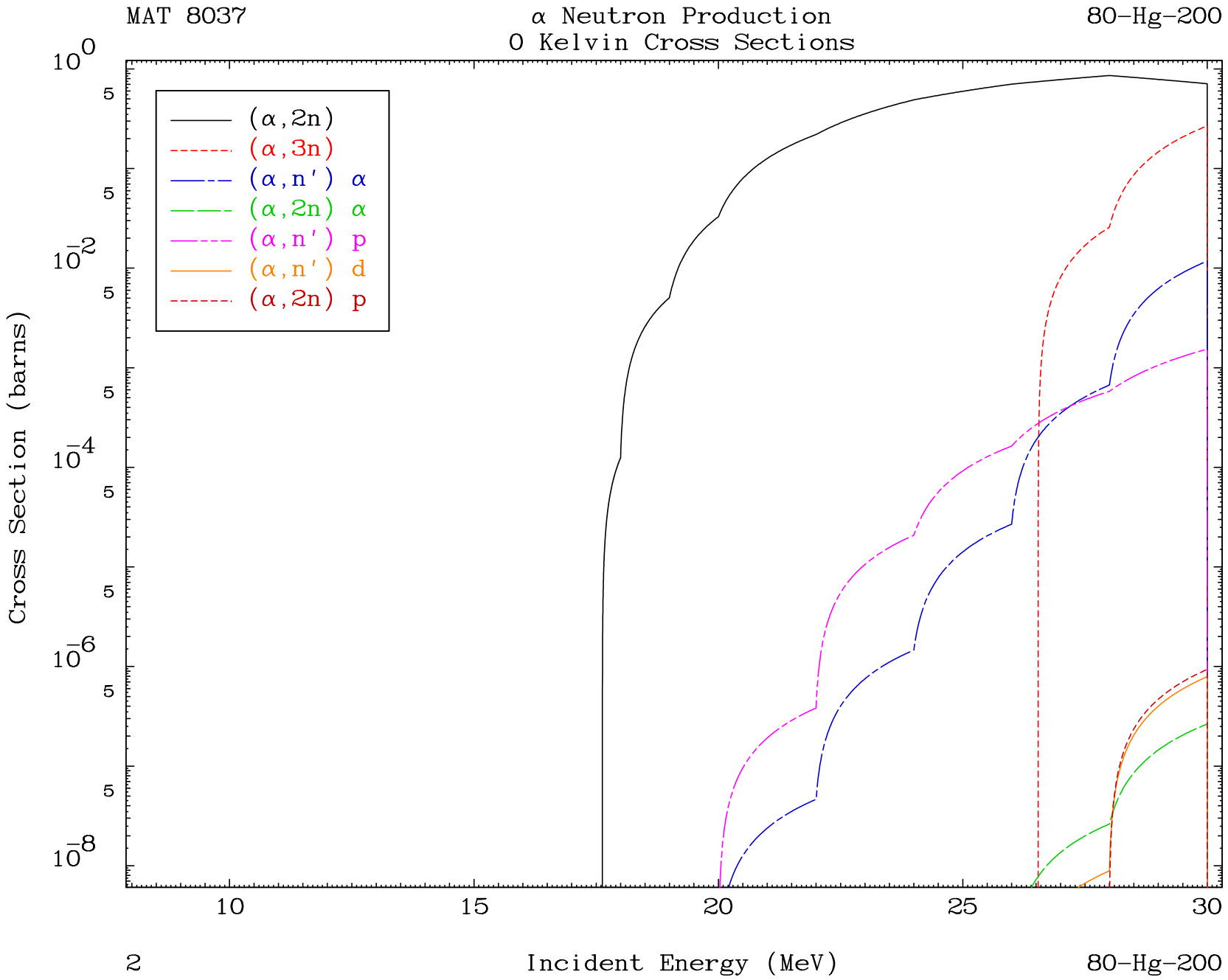
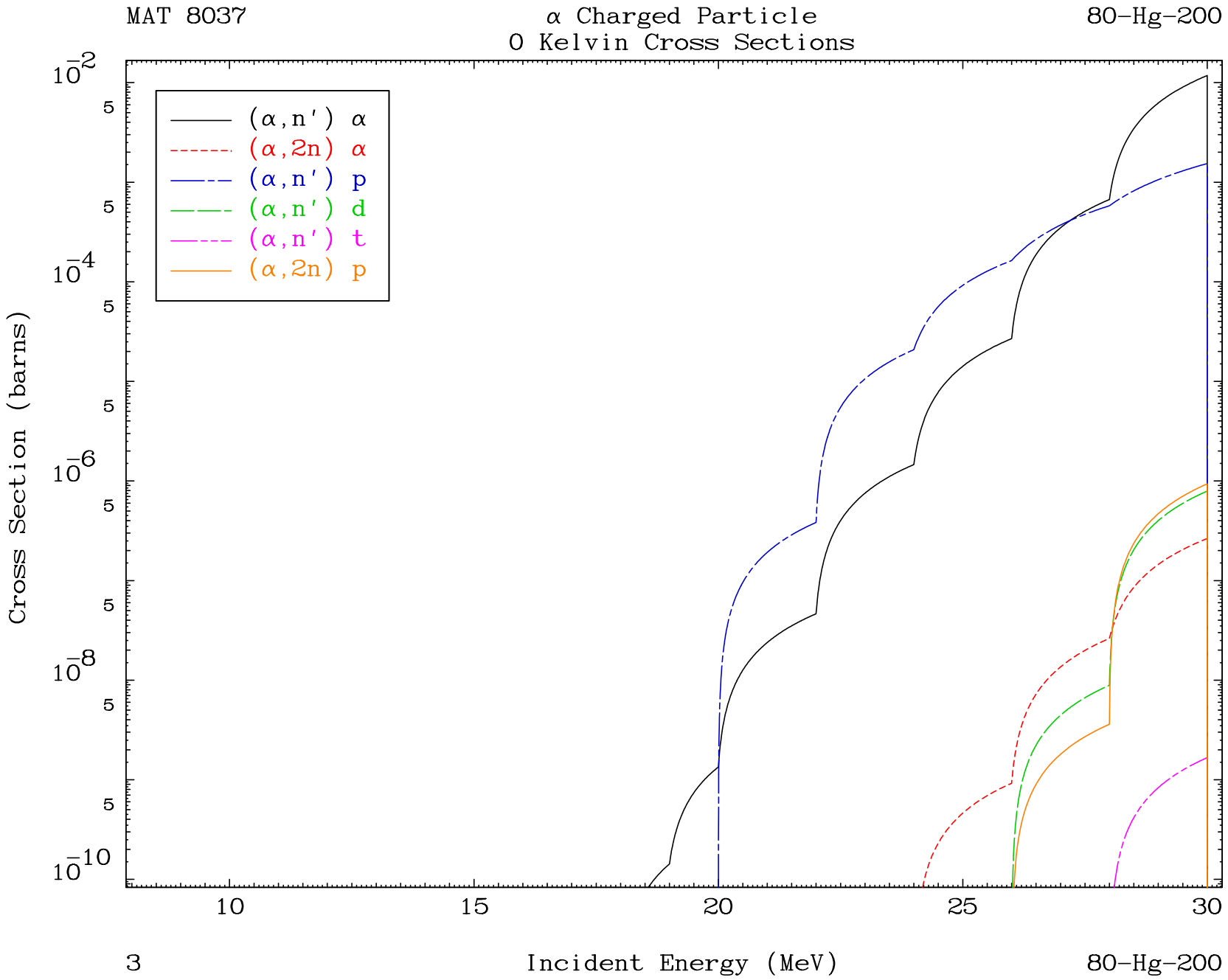
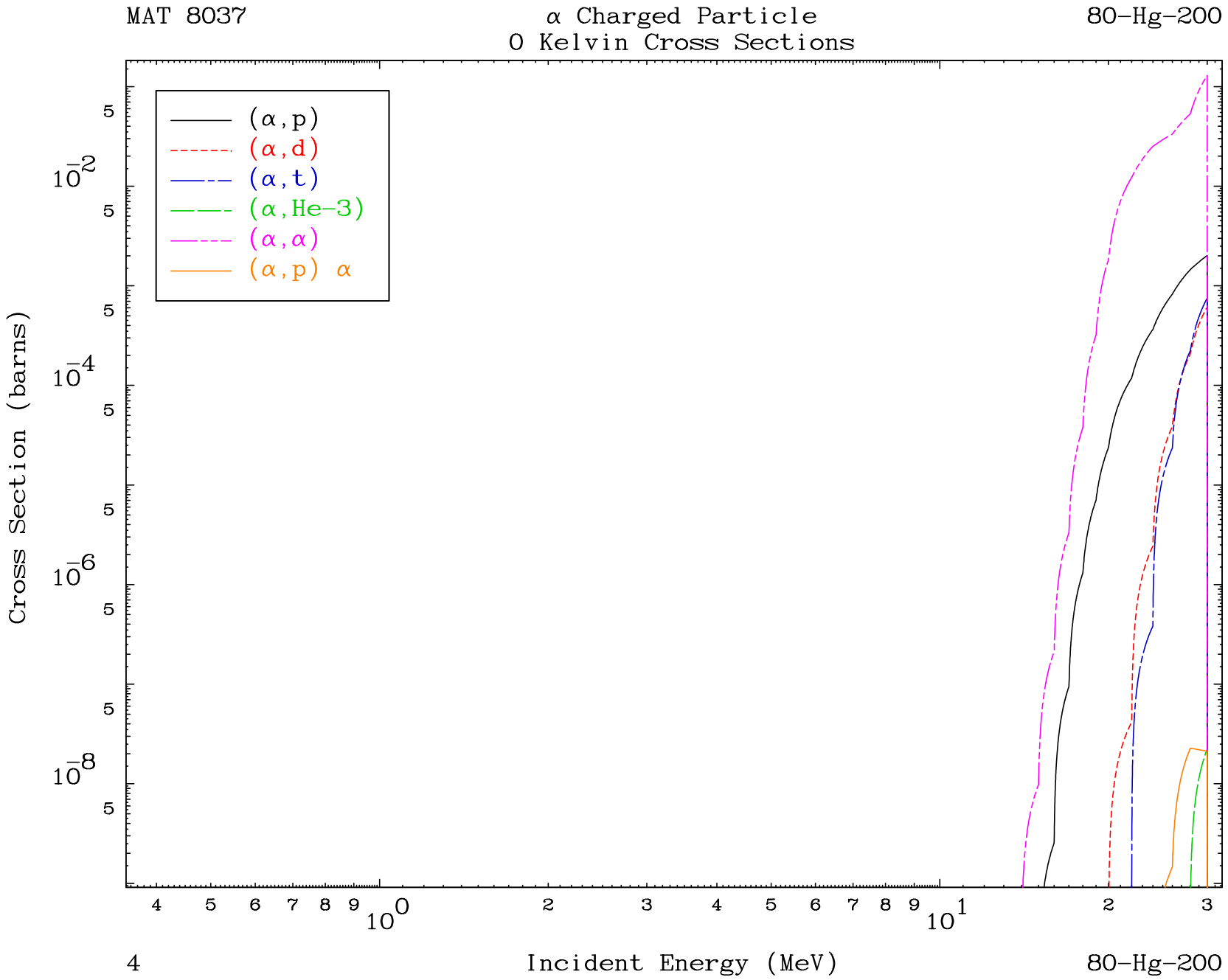
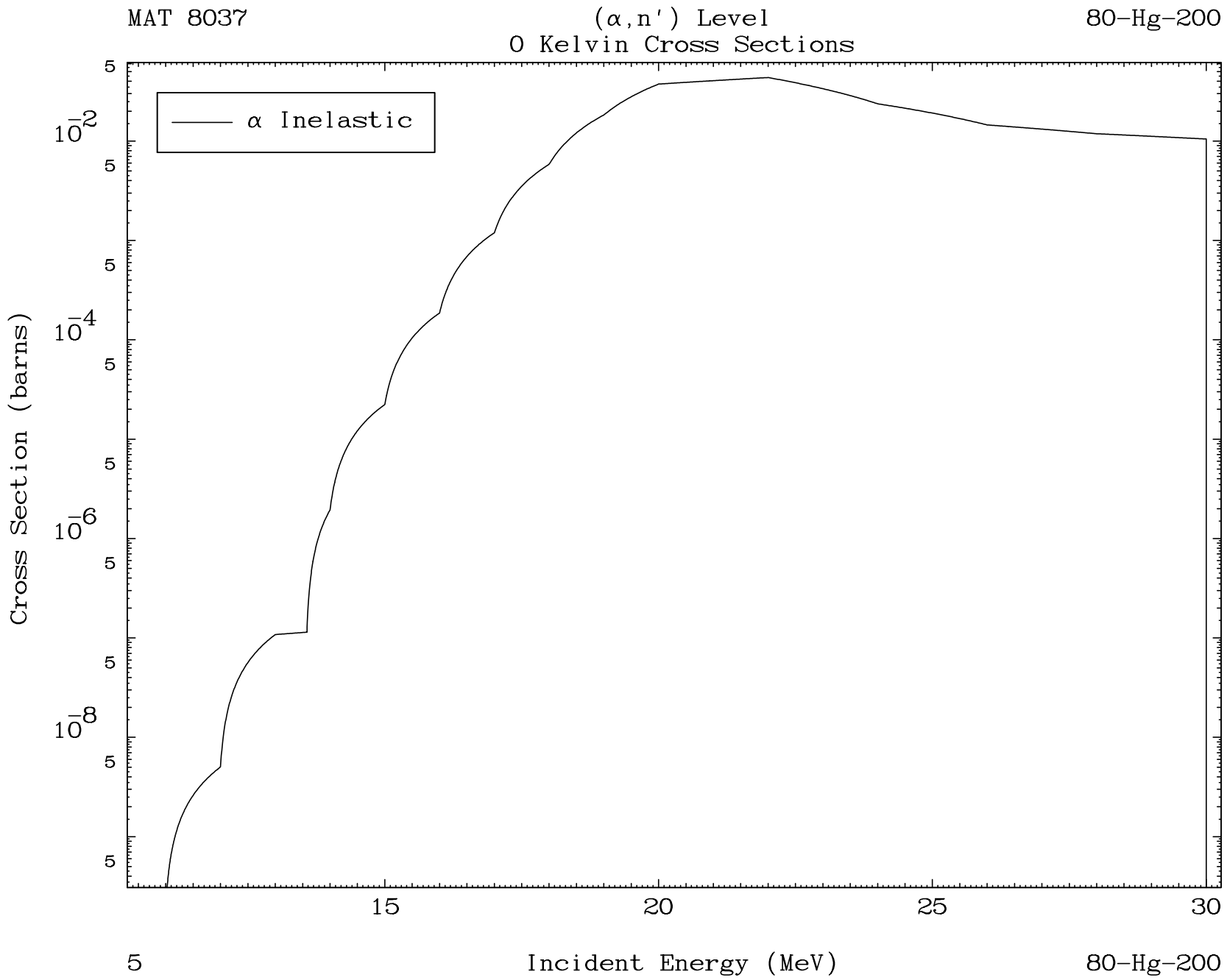
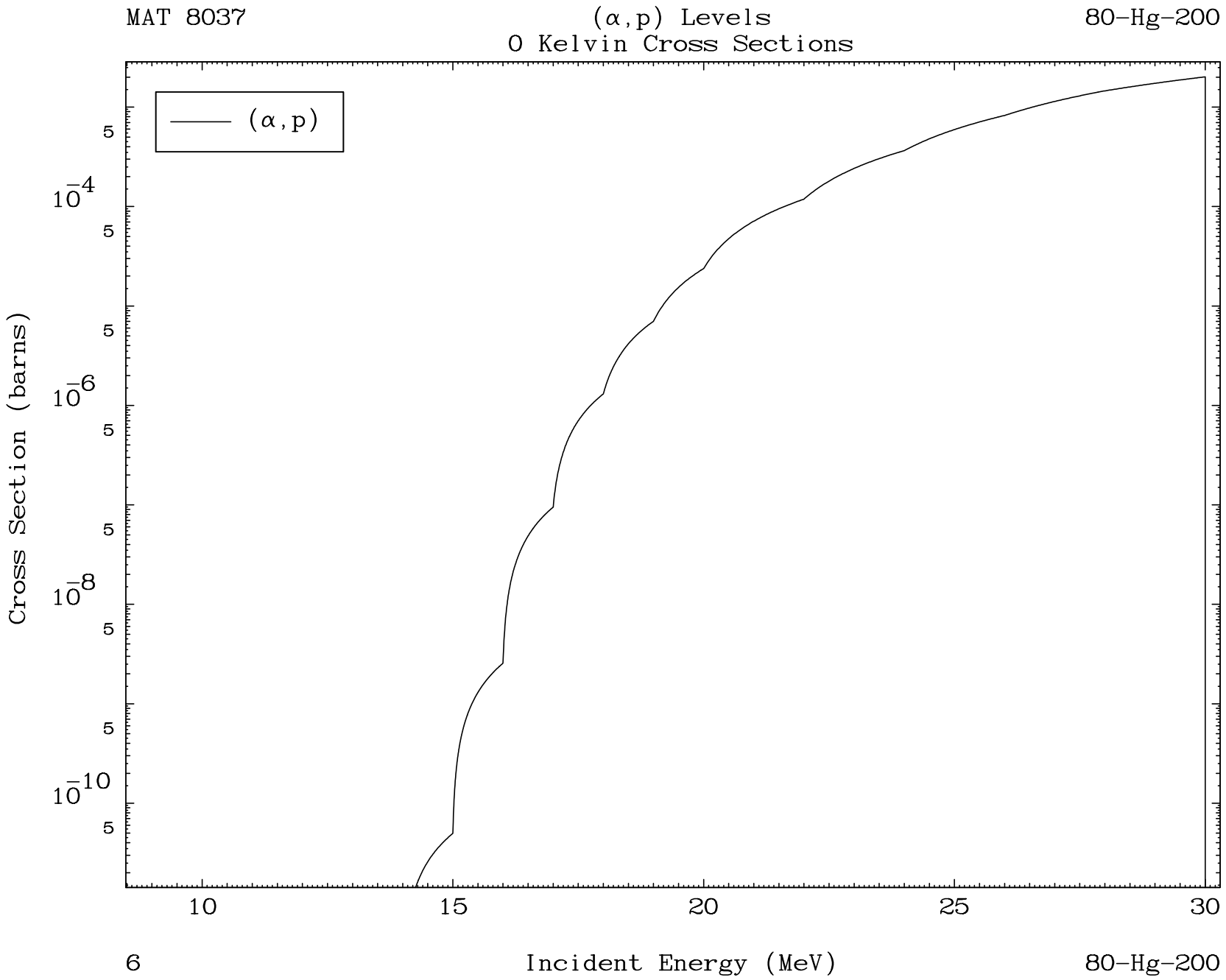

MAT 8037
α Major
80-Hg-200
0 Kelvin Cross Sections
α Inelastic
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
80-Hg-200

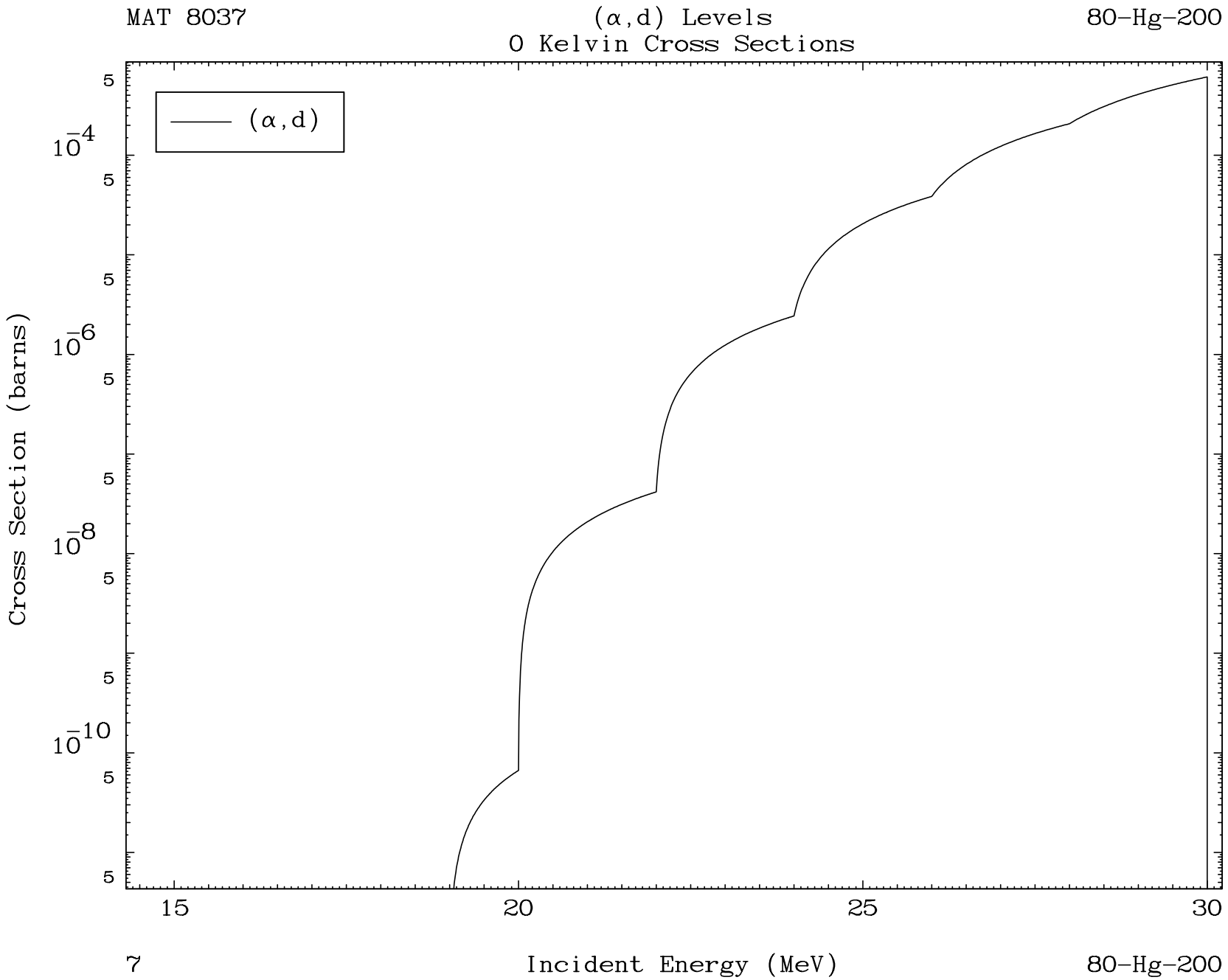

MAT 8037
α Neutron Production
0 Kelvin Cross Sections
80-Hg-200
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,2n) p
Cross Section (barns)
Incident Energy (MeV)
2
80-Hg-200

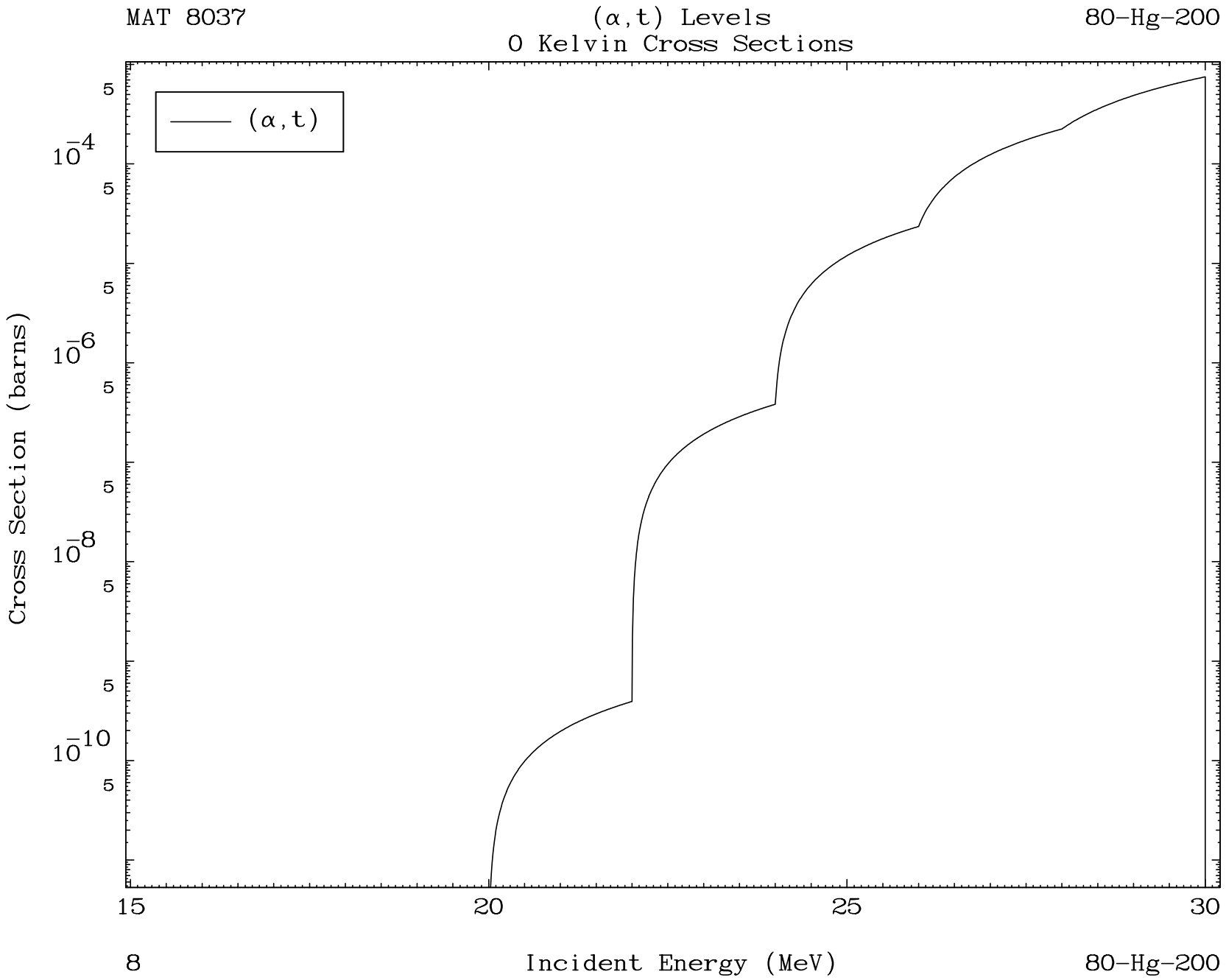

MAT 8037
α Charged Particle
0 Kelvin Cross Sections
80-Hg-200
(α,n') α
(α,2n) α
(α,n') p
(α,n') d
(α,n') t
(α,2n) p
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10
15
20
25
30
Incident Energy (MeV)
3
80-Hg-200

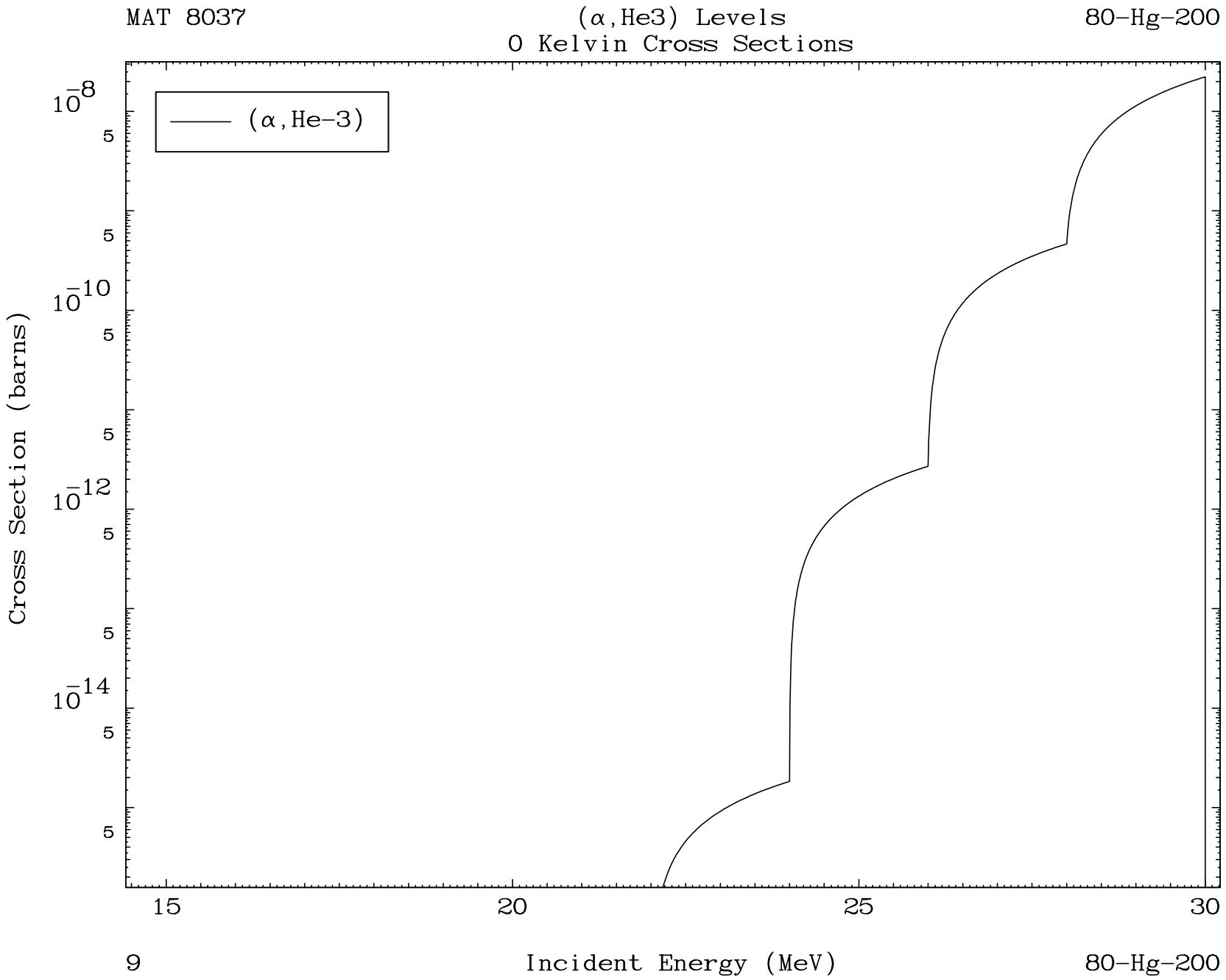

MAT 8037
α Charged Particle
0 Kelvin Cross Sections
80-Hg-200
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,p) α
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
Incident Energy (MeV)
4
80-Hg-200

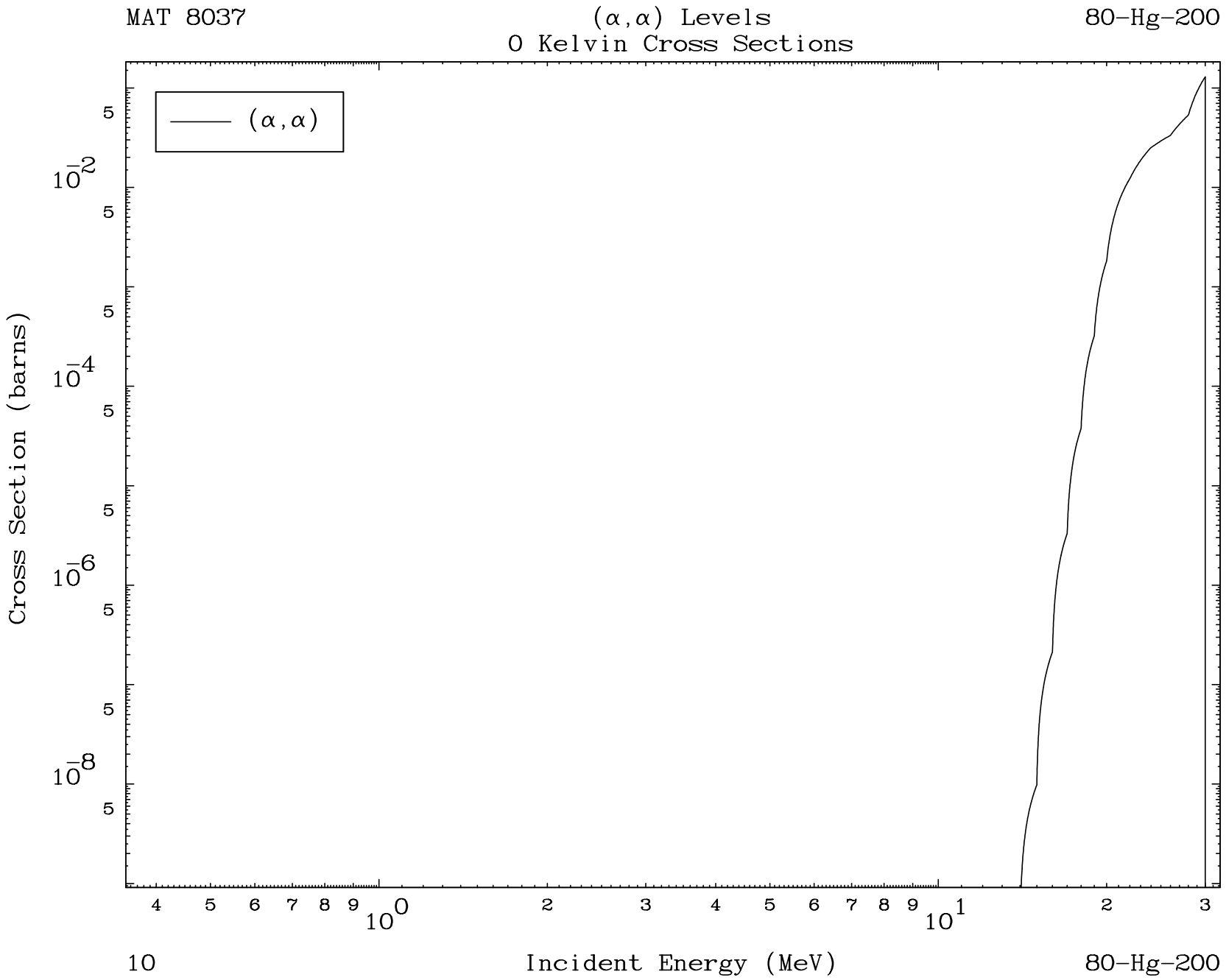

MAT 8037
(α,n') Level
80-Hg-200
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10-2
10-4
10-6
10-8
5
15
20
25
30
Incident Energy (MeV)
80-Hg-200

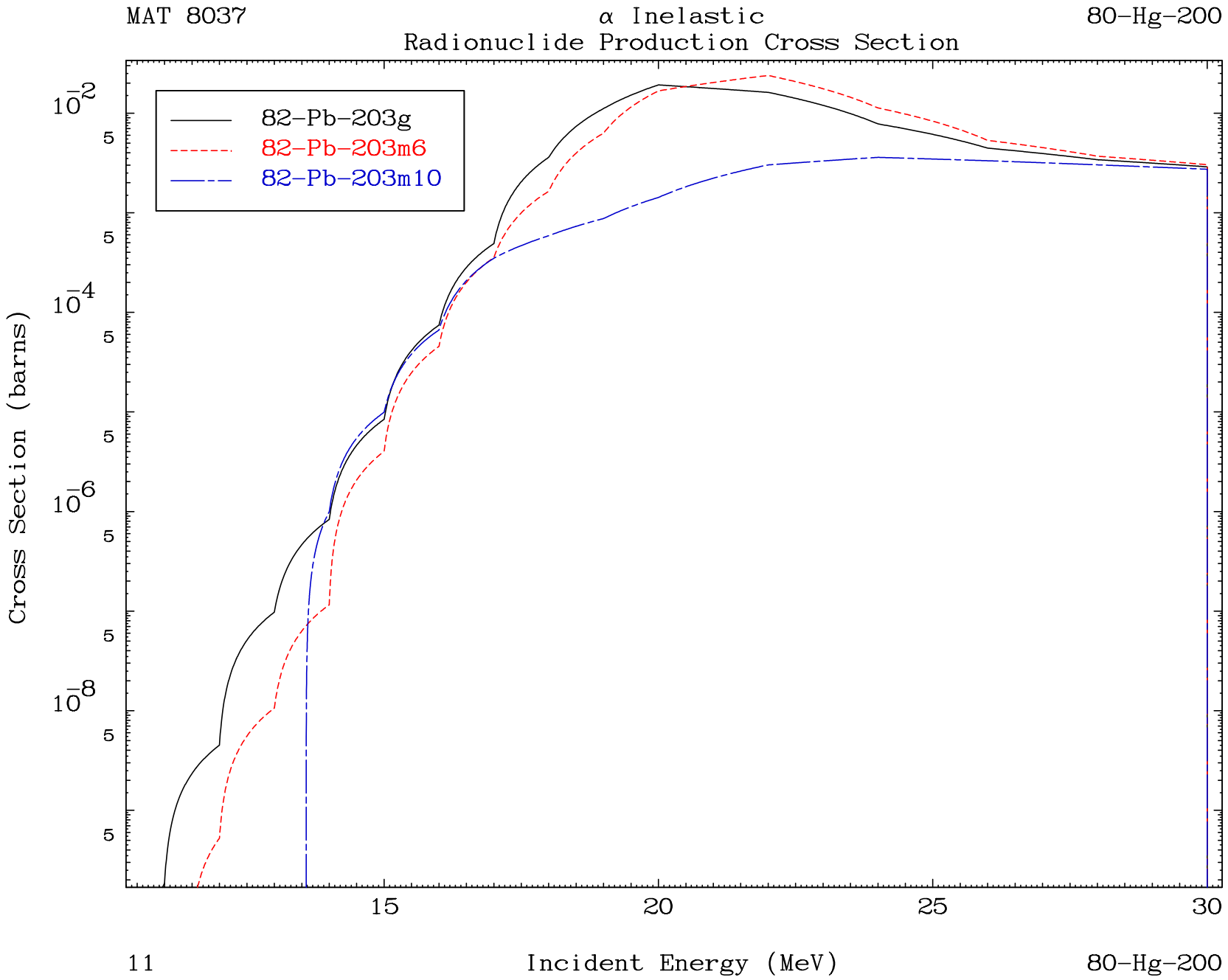

MAT 8037
(α,p) Levels
80-Hg-200
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10
15
20
25
30
Incident Energy (MeV)
6
80-Hg-200

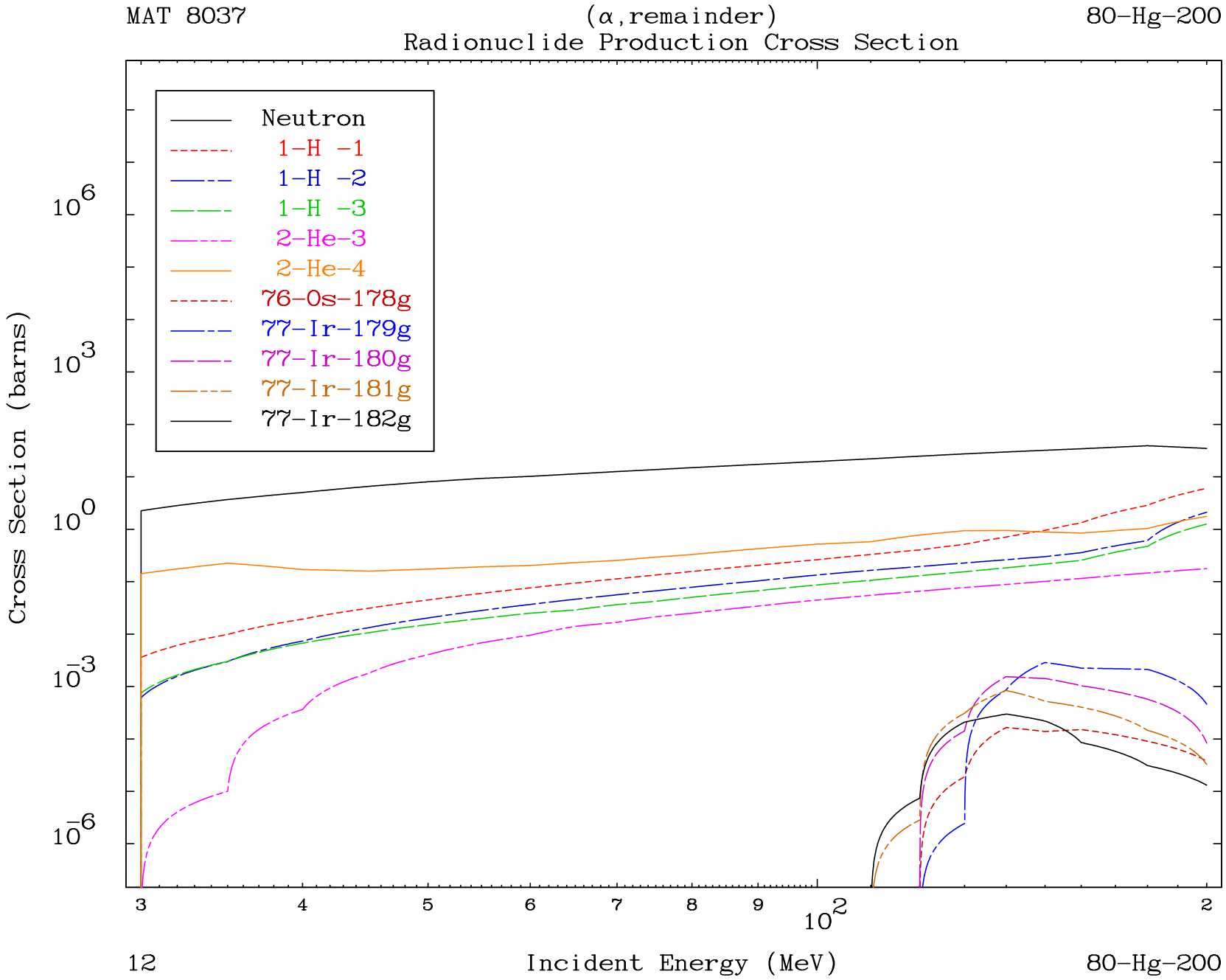

MAT 8037
(α,d) Levels
80-Hg-200
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
15
20
25
30
Incident Energy (MeV)
7
80-Hg-200

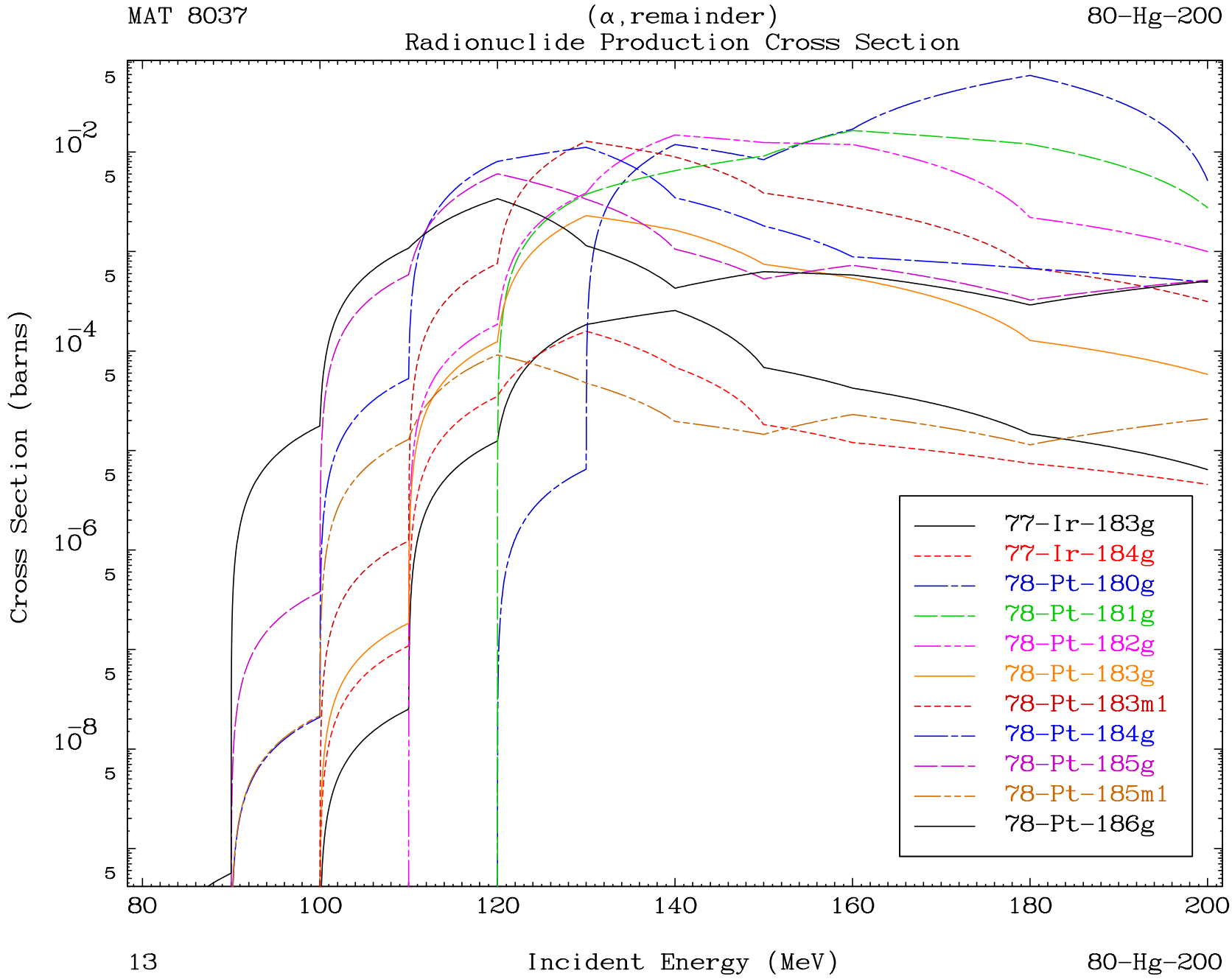

MAT 8037
(α,t) Levels
80-Hg-200
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
15
20
25
30
Incident Energy (MeV)
8
80-Hg-200

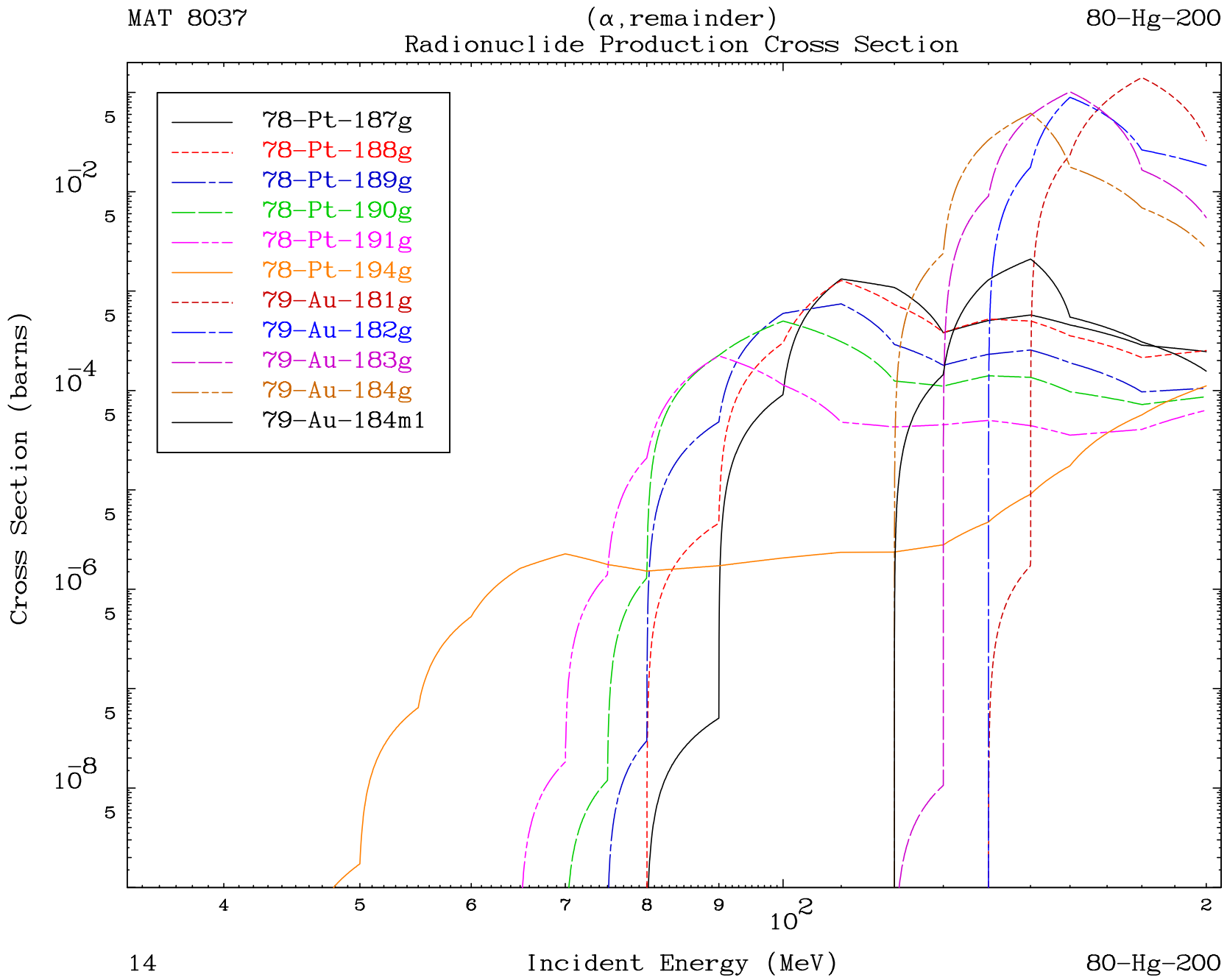

MAT 8037
(α,He3) Levels
80-Hg-200
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
15
20
25
30
9
Incident Energy (MeV)
80-Hg-200

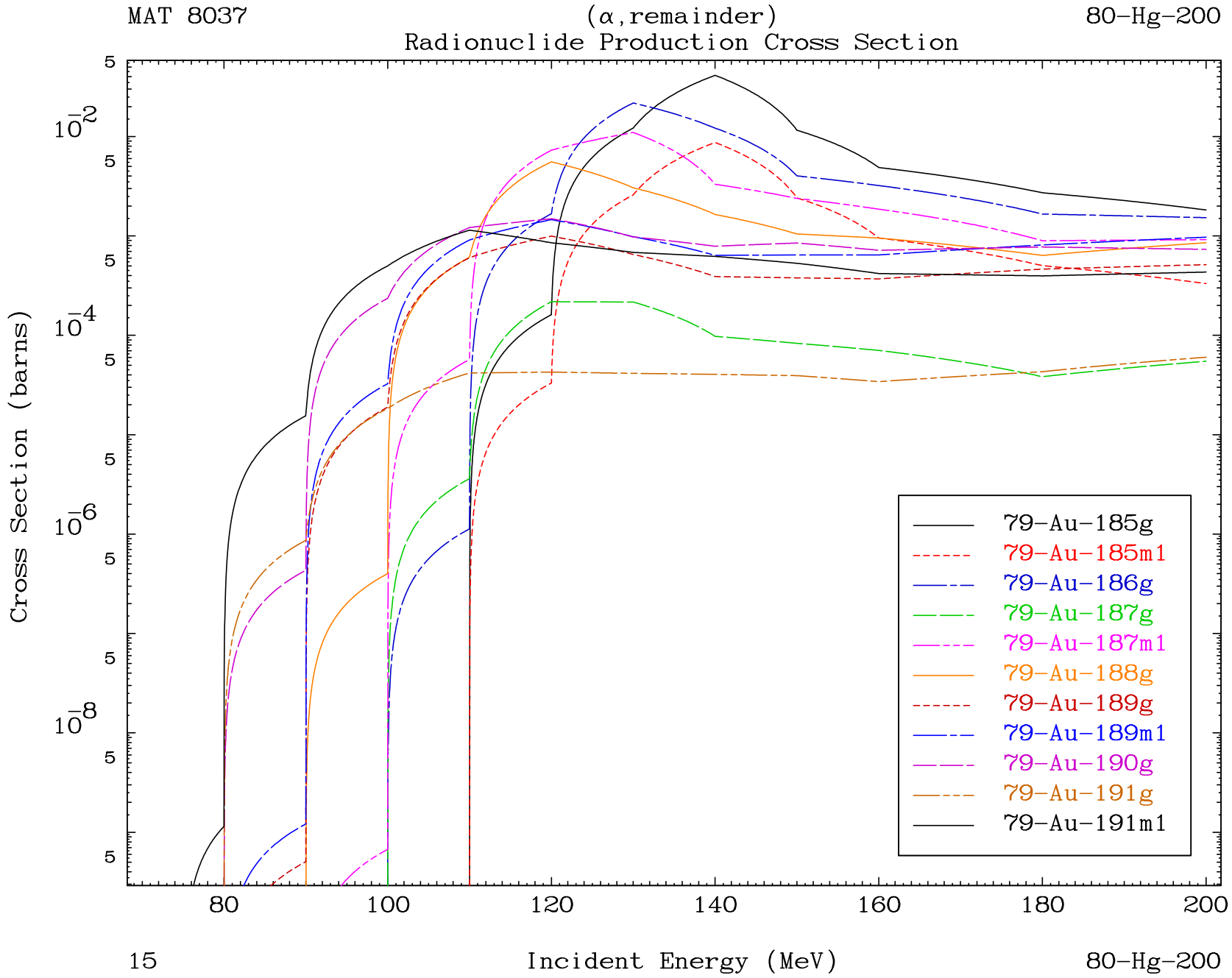

MAT 8037
(α,α) Levels
80-Hg-200
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10⁻²
10⁻⁴
10⁻⁶
10⁻⁸
10⁰
10¹
Incident Energy (MeV)
10
80-Hg-200

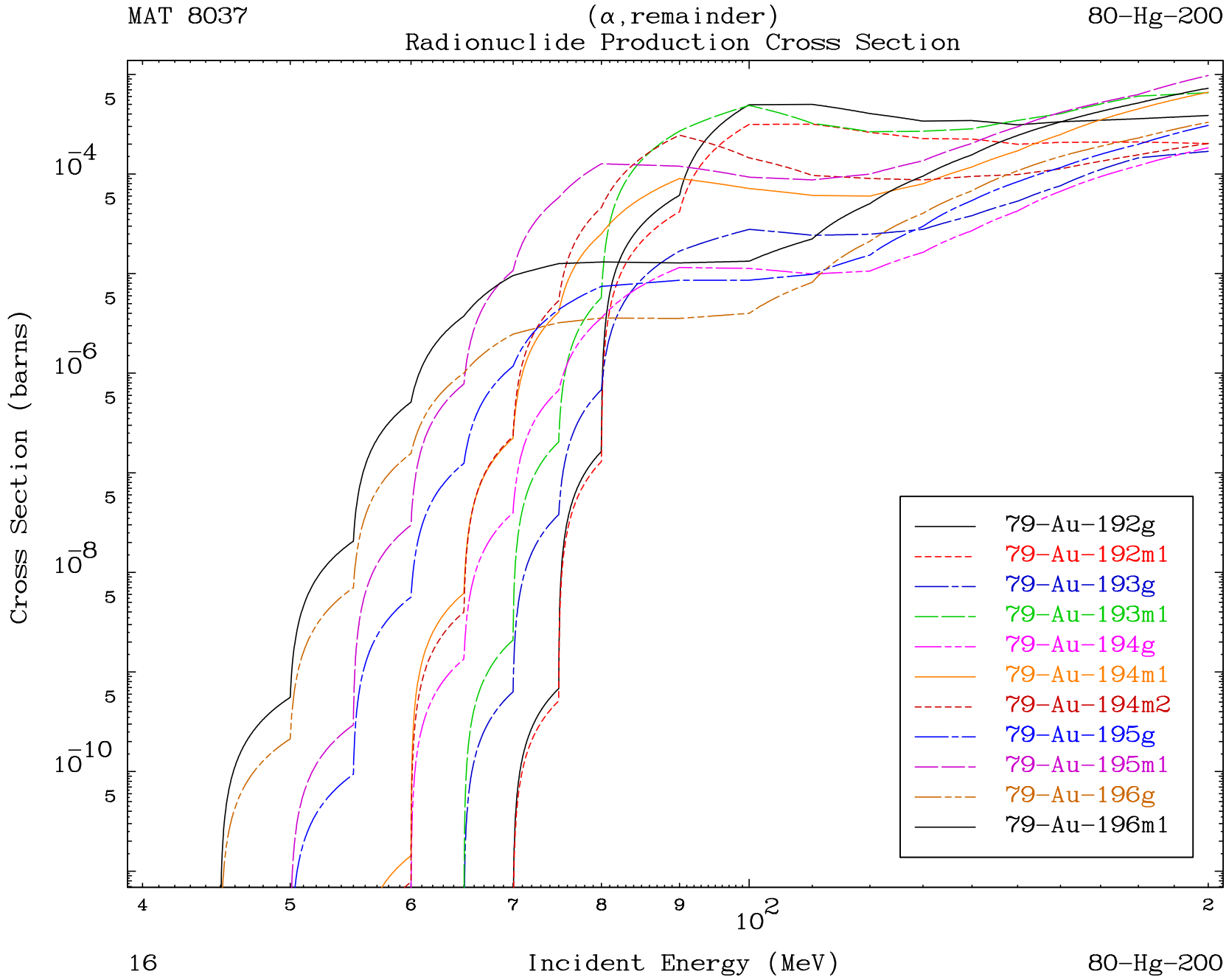

MAT 8037
α Inelastic
80-Hg-200
Radionuclide Production Cross Section
82-Pb-203g
82-Pb-203m6
82-Pb-203m10
Cross Section (barns)
10-2
10-4
10-6
10-8
5
15
20
25
30
11
Incident Energy (MeV)
80-Hg-200

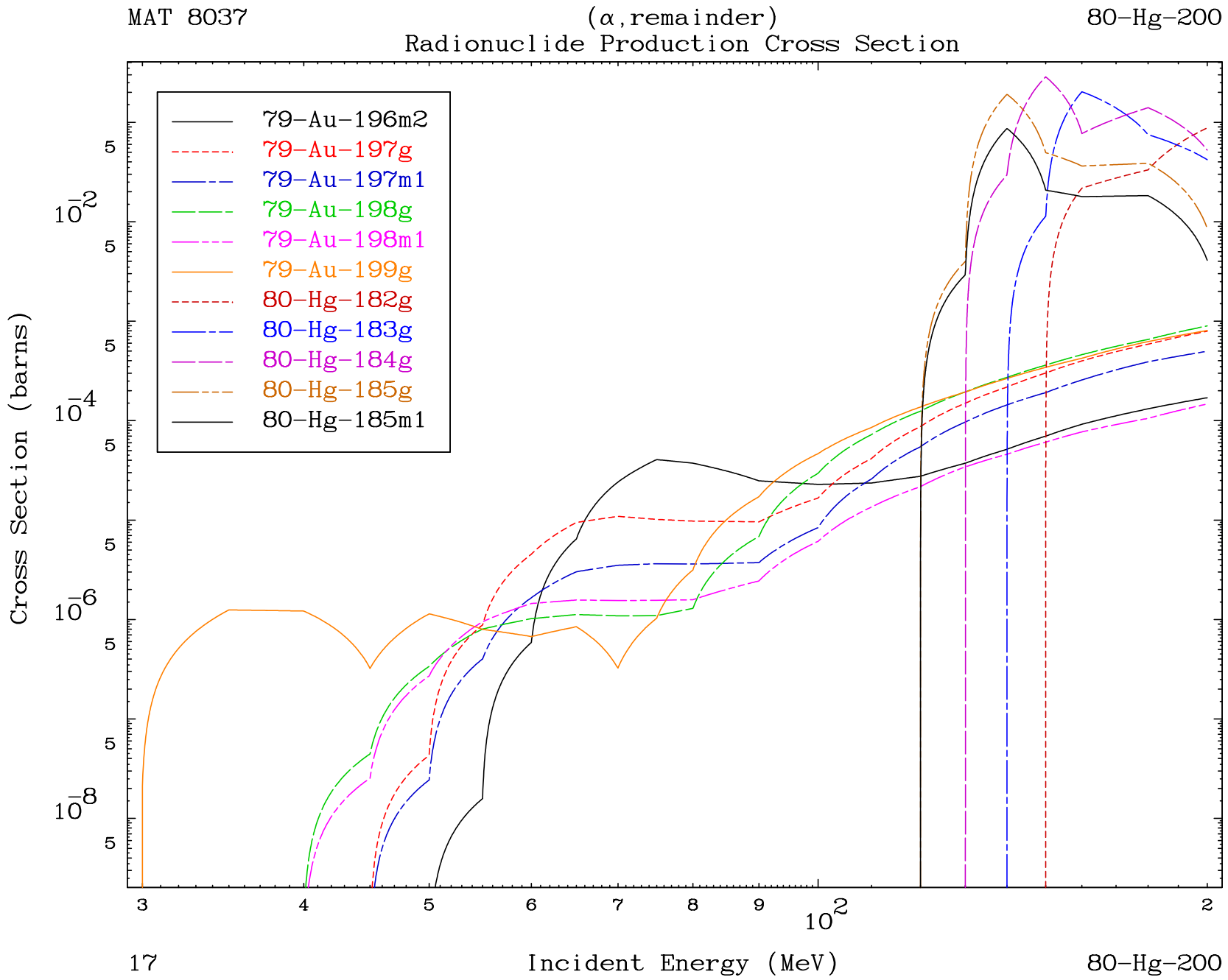

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
76-Os-178g
77-Ir-179g
77-Ir-180g
77-Ir-181g
77-Ir-182g
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
80-Hg-200

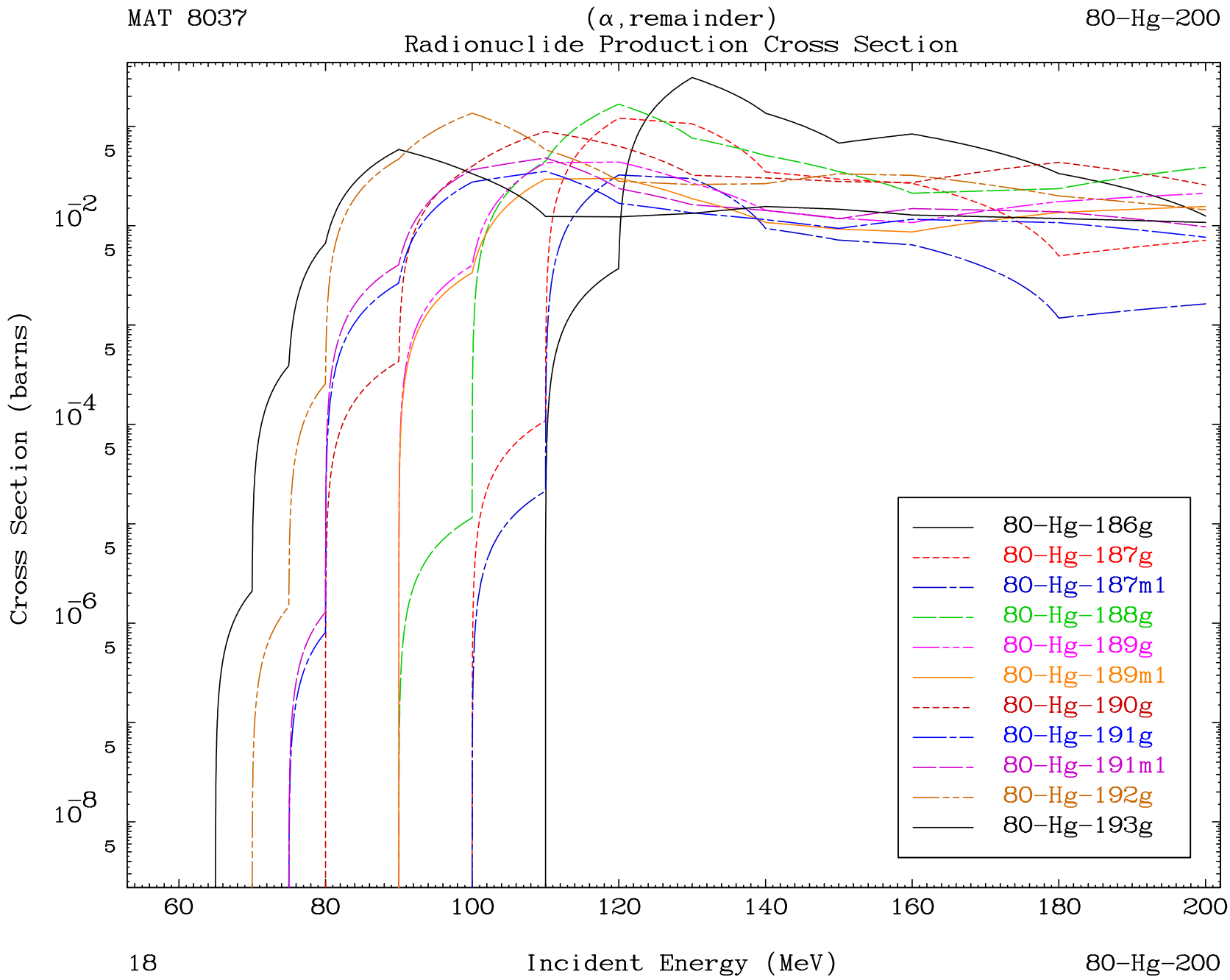

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
80
100
120
140
160
180
200
Incident Energy (MeV)
77-Ir-183g
77-Ir-184g
78-Pt-180g
78-Pt-181g
78-Pt-182g
78-Pt-183g
78-Pt-183m1
78-Pt-184g
78-Pt-185g
78-Pt-185m1
78-Pt-186g

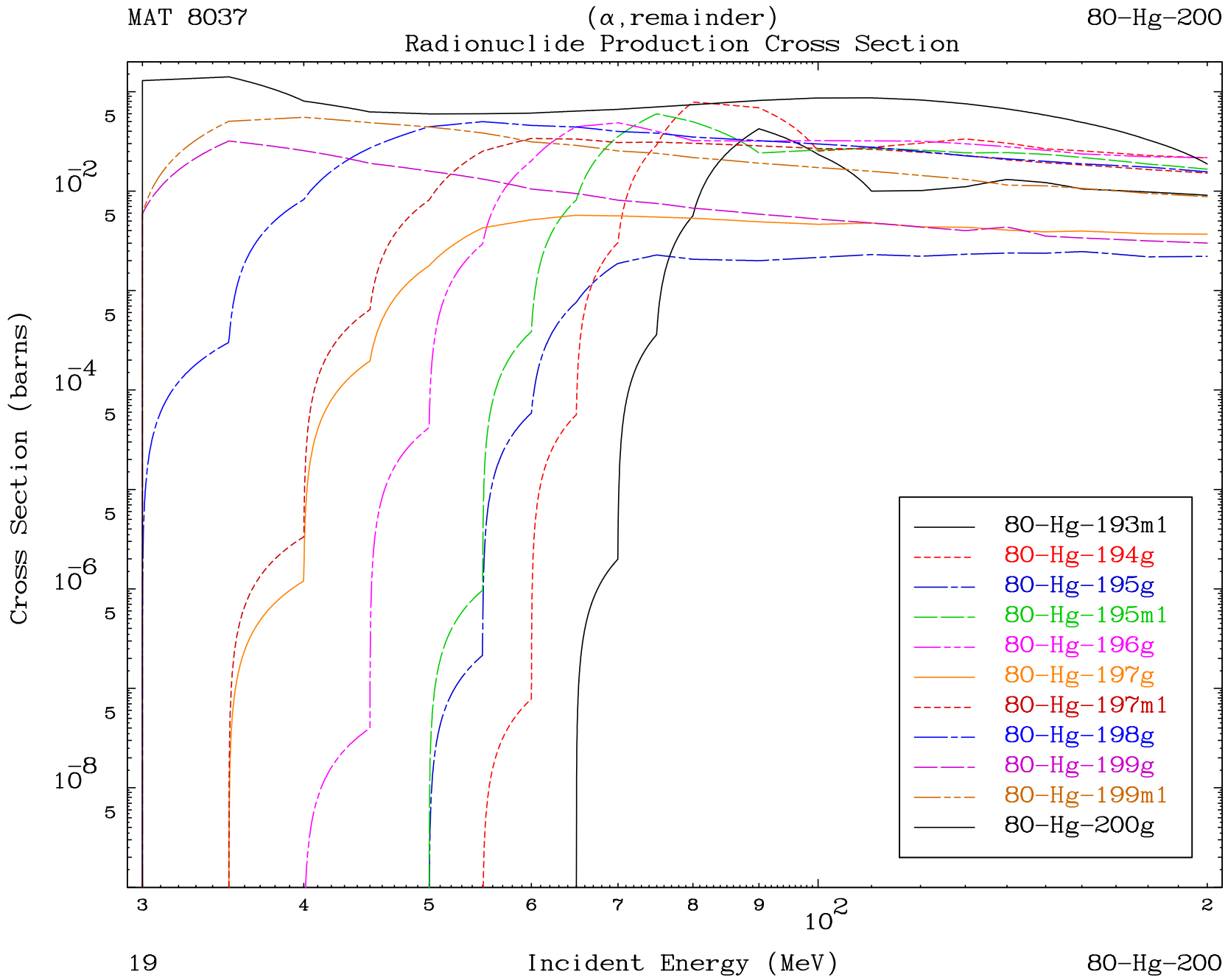

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
78-Pt-187g
78-Pt-188g
78-Pt-189g
78-Pt-190g
78-Pt-191g
78-Pt-194g
79-Au-181g
79-Au-182g
79-Au-183g
79-Au-184g
79-Au-184m1
Cross Section (barns)
10-2
10-4
10-6
10-8
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
80-Hg-200

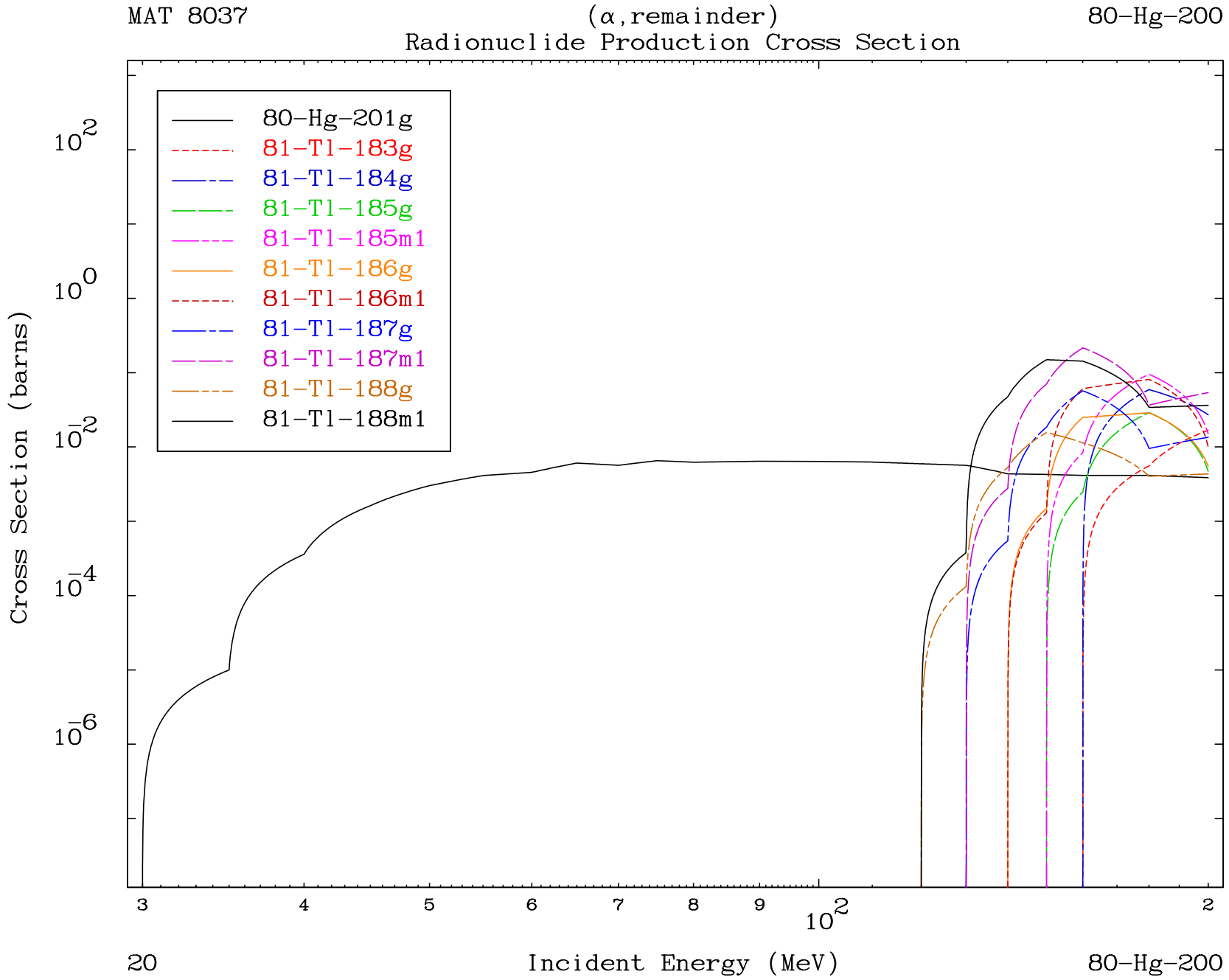

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
80
100
120
140
160
180
200
Incident Energy (MeV)
79-Au-185g
79-Au-185m1
79-Au-186g
79-Au-187g
79-Au-187m1
79-Au-188g
79-Au-189g
79-Au-189m1
79-Au-190g
79-Au-191g
79-Au-191m1

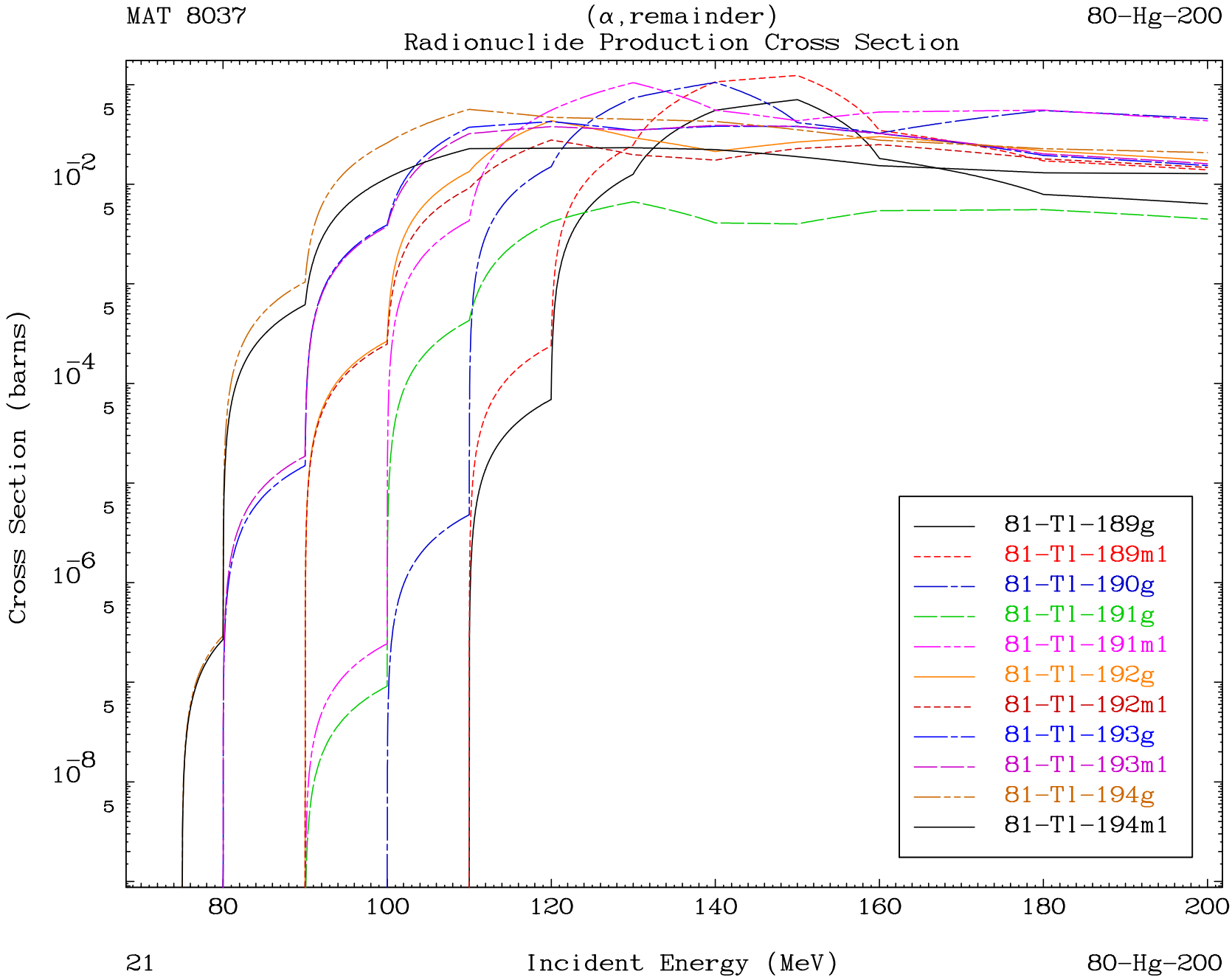

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
79-Au-192g
79-Au-192m1
79-Au-193g
79-Au-193m1
79-Au-194g
79-Au-194m1
79-Au-194m2
79-Au-195g
79-Au-195m1
79-Au-196g
79-Au-196m1


MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
79-Au-196m2
79-Au-197g
79-Au-197m1
79-Au-198g
79-Au-198m1
79-Au-199g
80-Hg-182g
80-Hg-183g
80-Hg-184g
80-Hg-185g
80-Hg-185m1
Cross Section (barns)
10-2
10-4
10-6
10-8
3
4
5
6
7
8
9
10 2
2
17
Incident Energy (MeV)
80-Hg-200

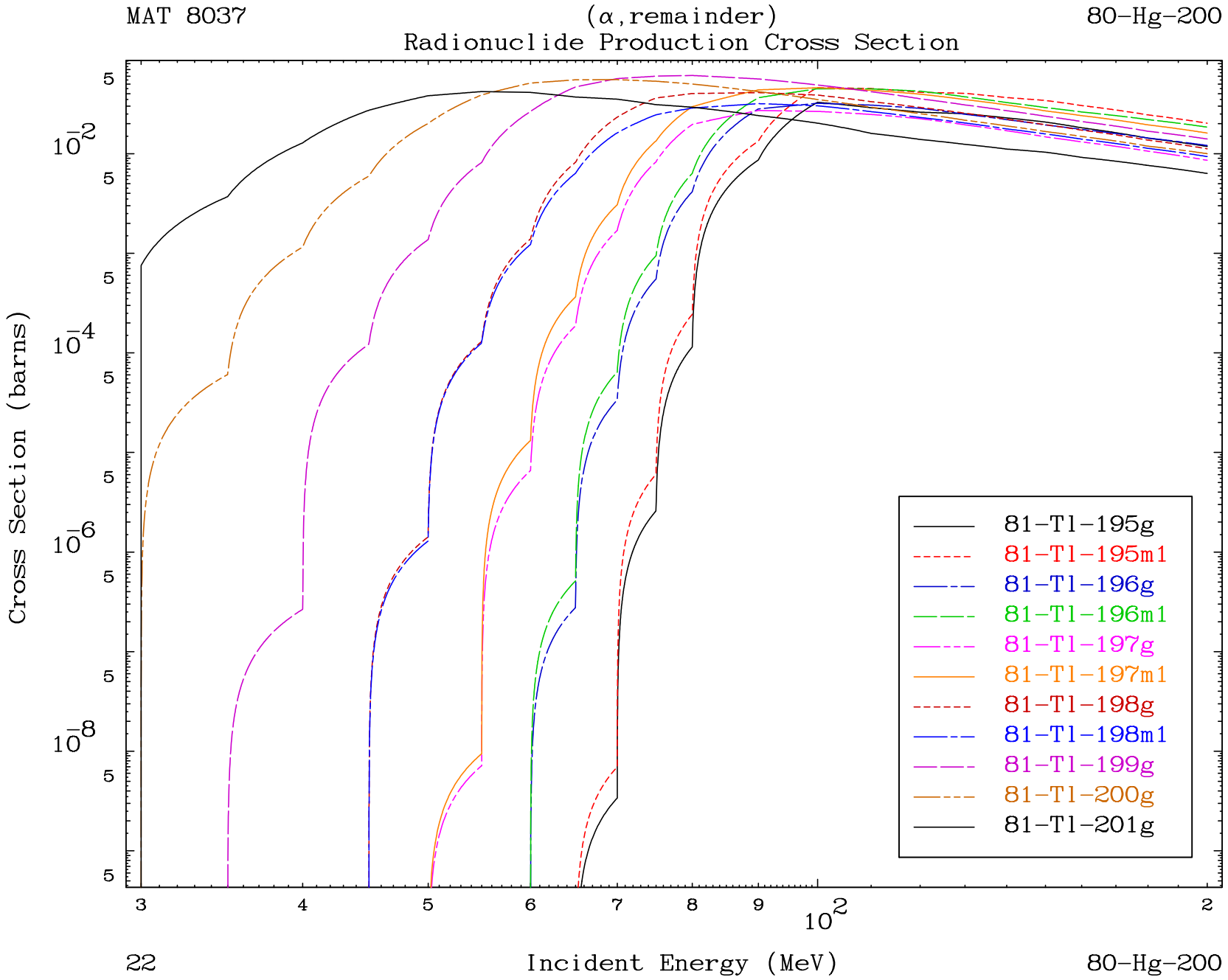

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
60
80
100
120
140
160
180
200
18
Incident Energy (MeV)
80-Hg-200
80-Hg-186g
80-Hg-187g
80-Hg-187m1
80-Hg-188g
80-Hg-189g
80-Hg-189m1
80-Hg-190g
80-Hg-191g
80-Hg-191m1
80-Hg-192g
80-Hg-193g

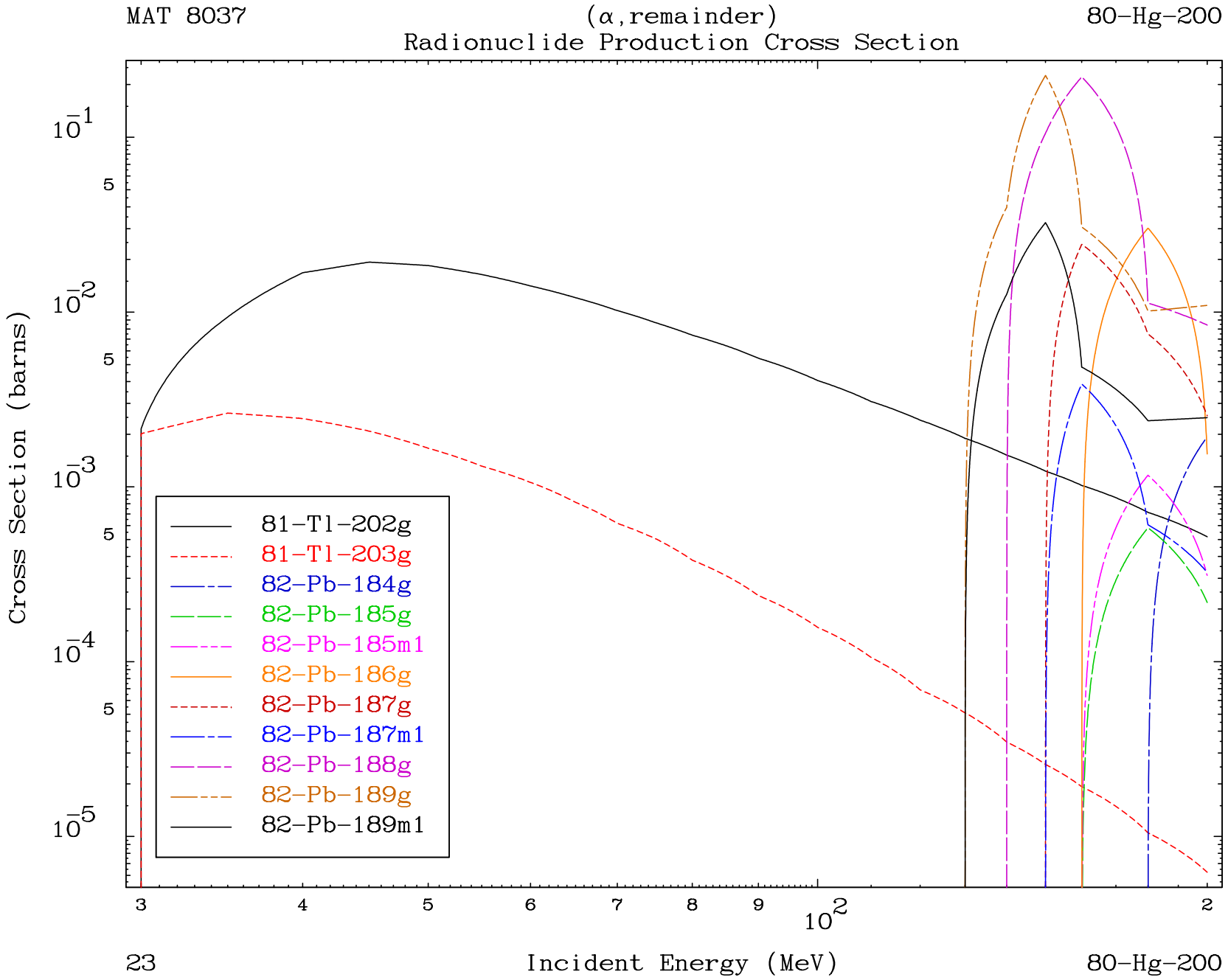

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
80-Hg-193m1
80-Hg-194g
80-Hg-195g
80-Hg-195m1
80-Hg-196g
80-Hg-197g
80-Hg-197m1
80-Hg-198g
80-Hg-199g
80-Hg-199m1
80-Hg-200g

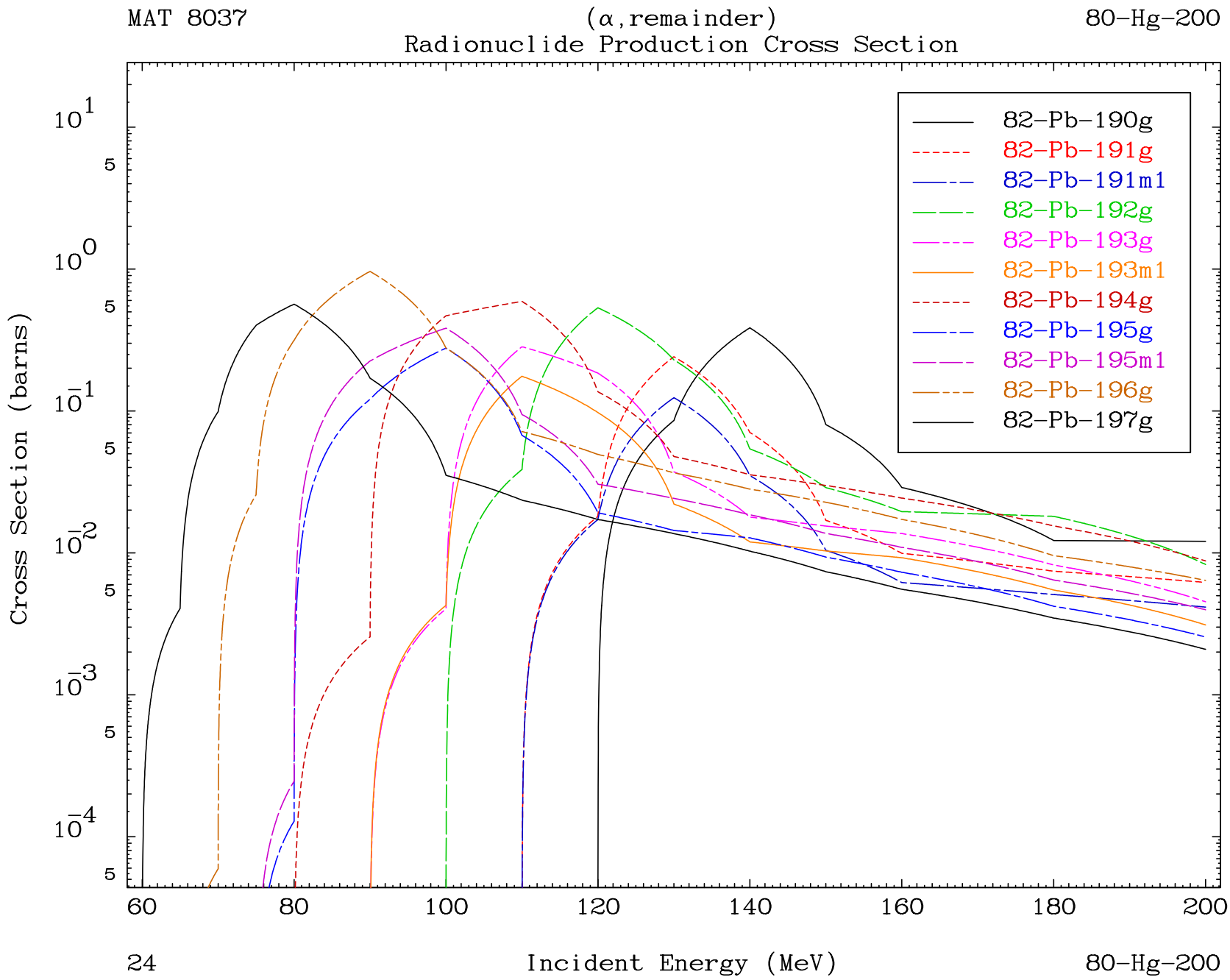

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
80-Hg-201g
81-Tl-183g
81-Tl-184g
81-Tl-185g
81-Tl-185m1
81-Tl-186g
81-Tl-186m1
81-Tl-187g
81-Tl-187m1
81-Tl-188g
81-Tl-188m1
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-6
3
4
5
6
7
8
9
10^2
2
20
Incident Energy (MeV)
80-Hg-200

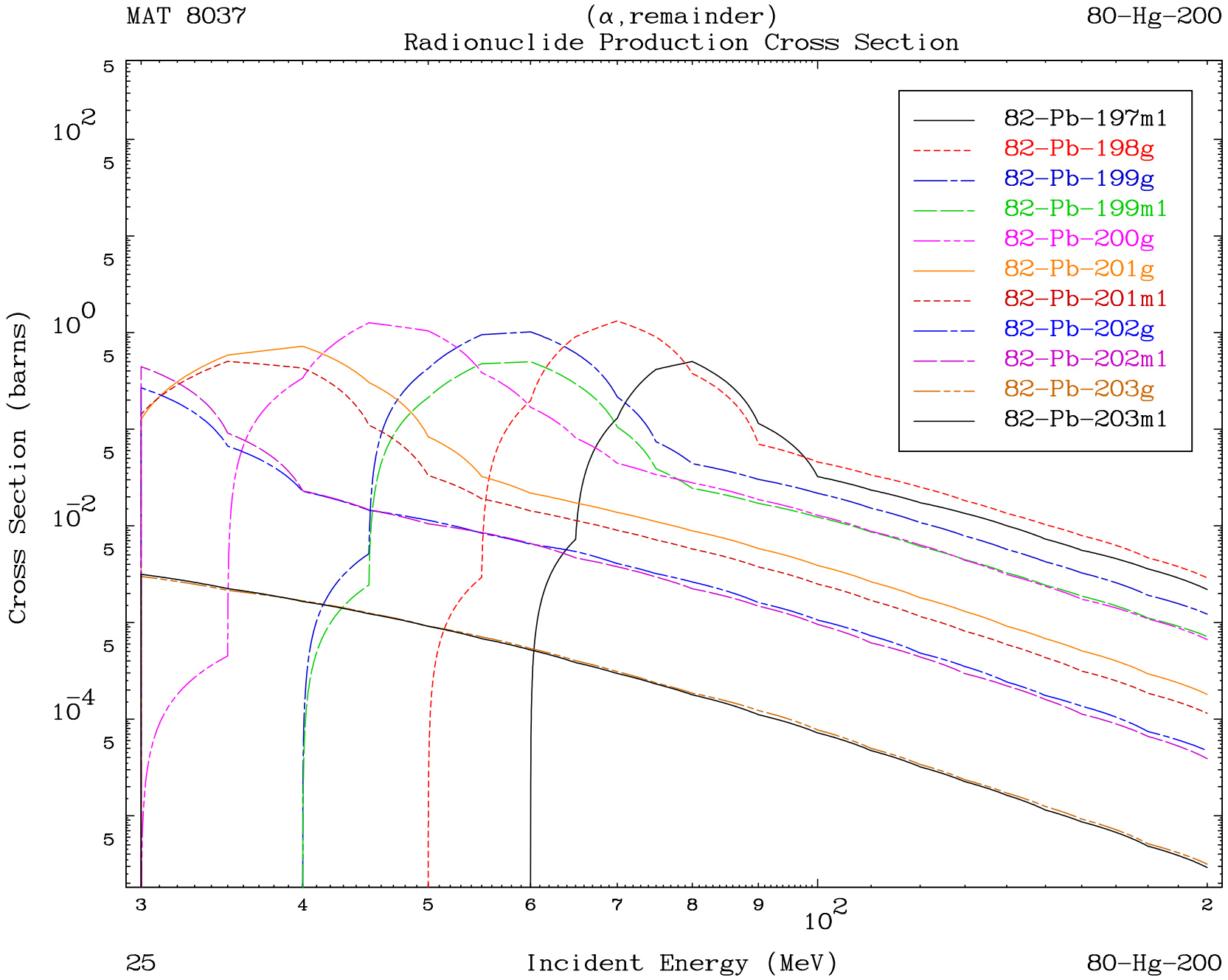

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
80
100
120
140
160
180
200
Incident Energy (MeV)
81-Tl-189g
81-Tl-189m1
81-Tl-190g
81-Tl-191g
81-Tl-191m1
81-Tl-192g
81-Tl-192m1
81-Tl-193g
81-Tl-193m1
81-Tl-194g
81-Tl-194m1

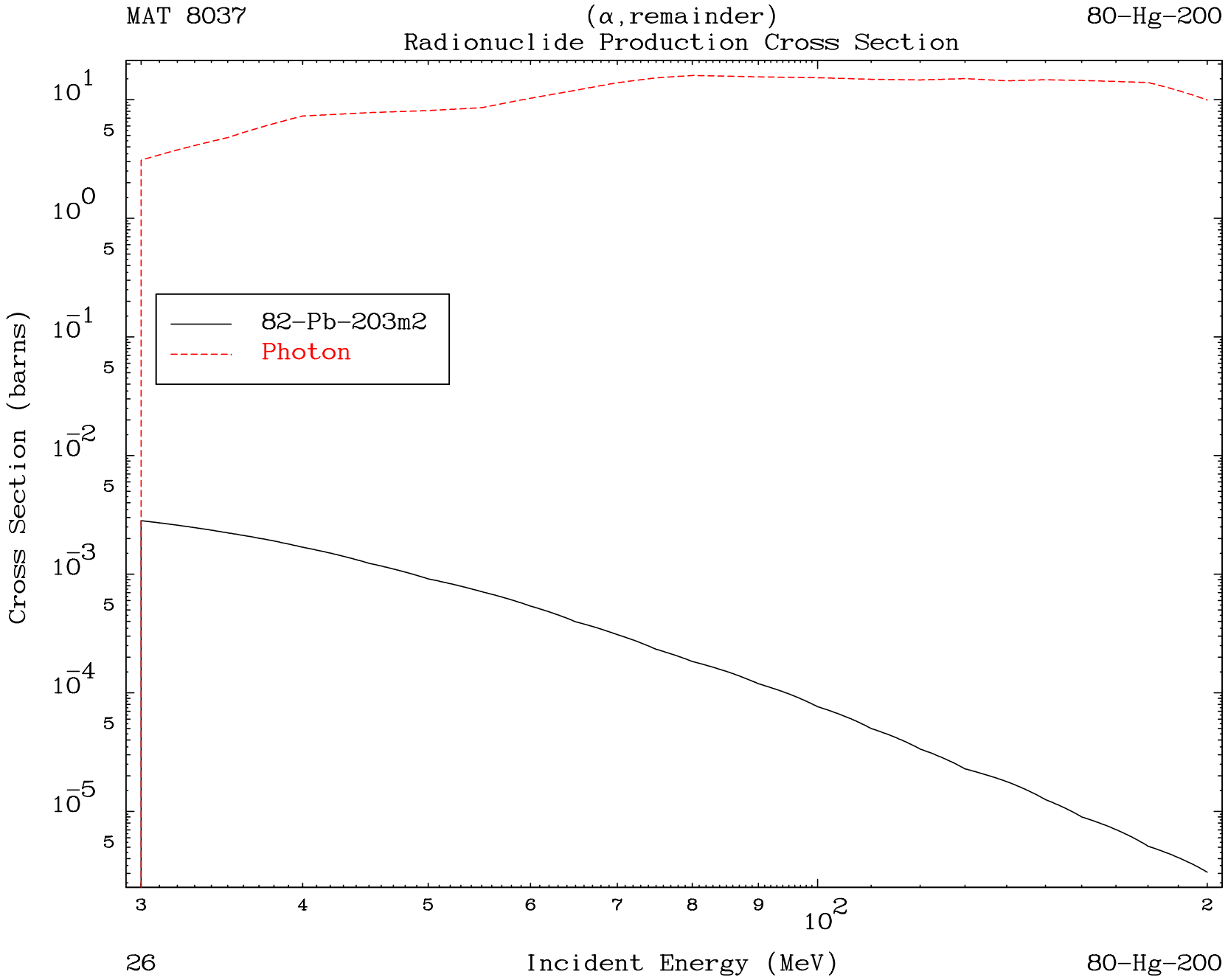
80-Hg-200

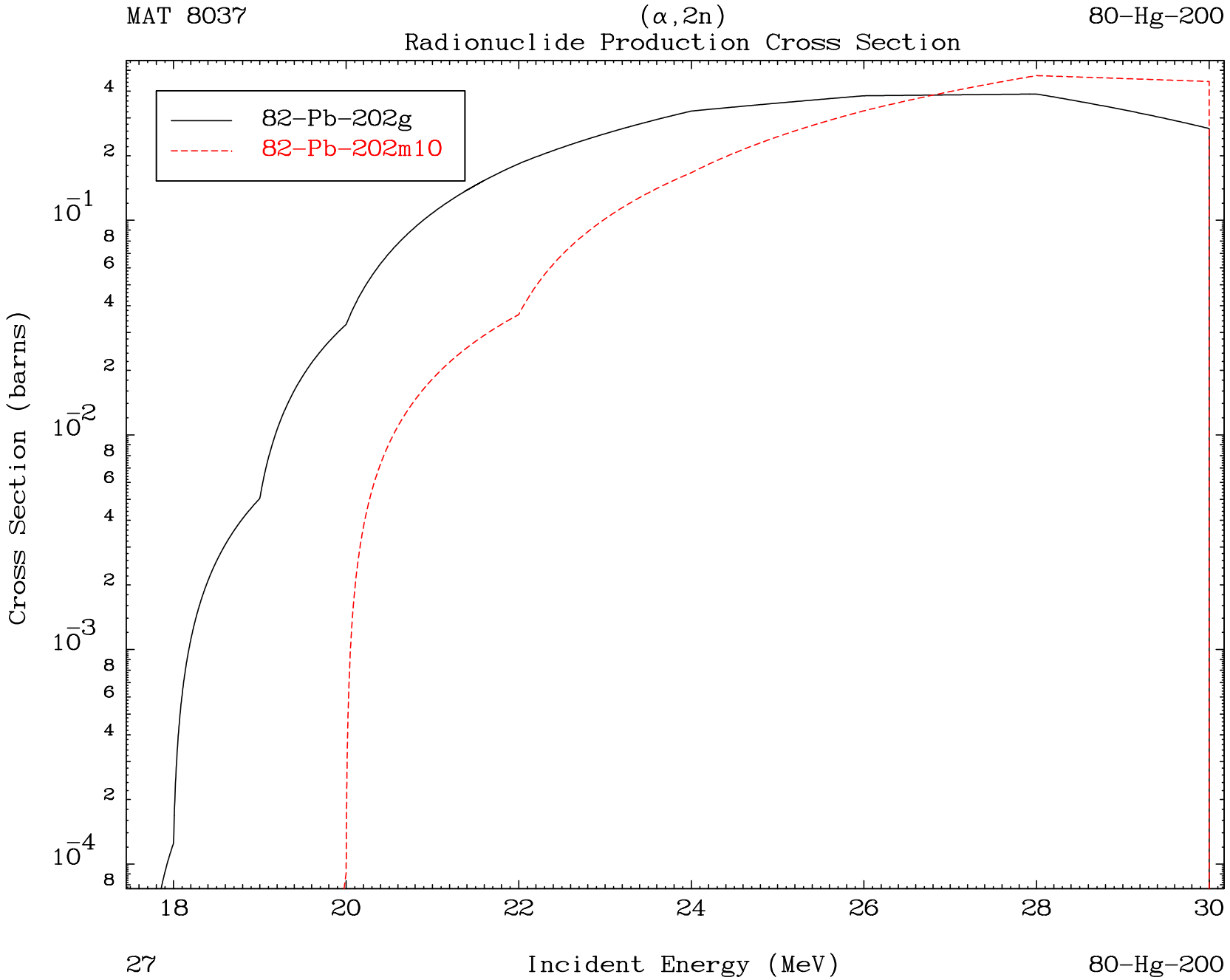

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
22
80-Hg-200
81-Tl-195g
81-Tl-195m1
81-Tl-196g
81-Tl-196m1
81-Tl-197g
81-Tl-197m1
81-Tl-198g
81-Tl-198m1
81-Tl-199g
81-Tl-200g
81-Tl-201g

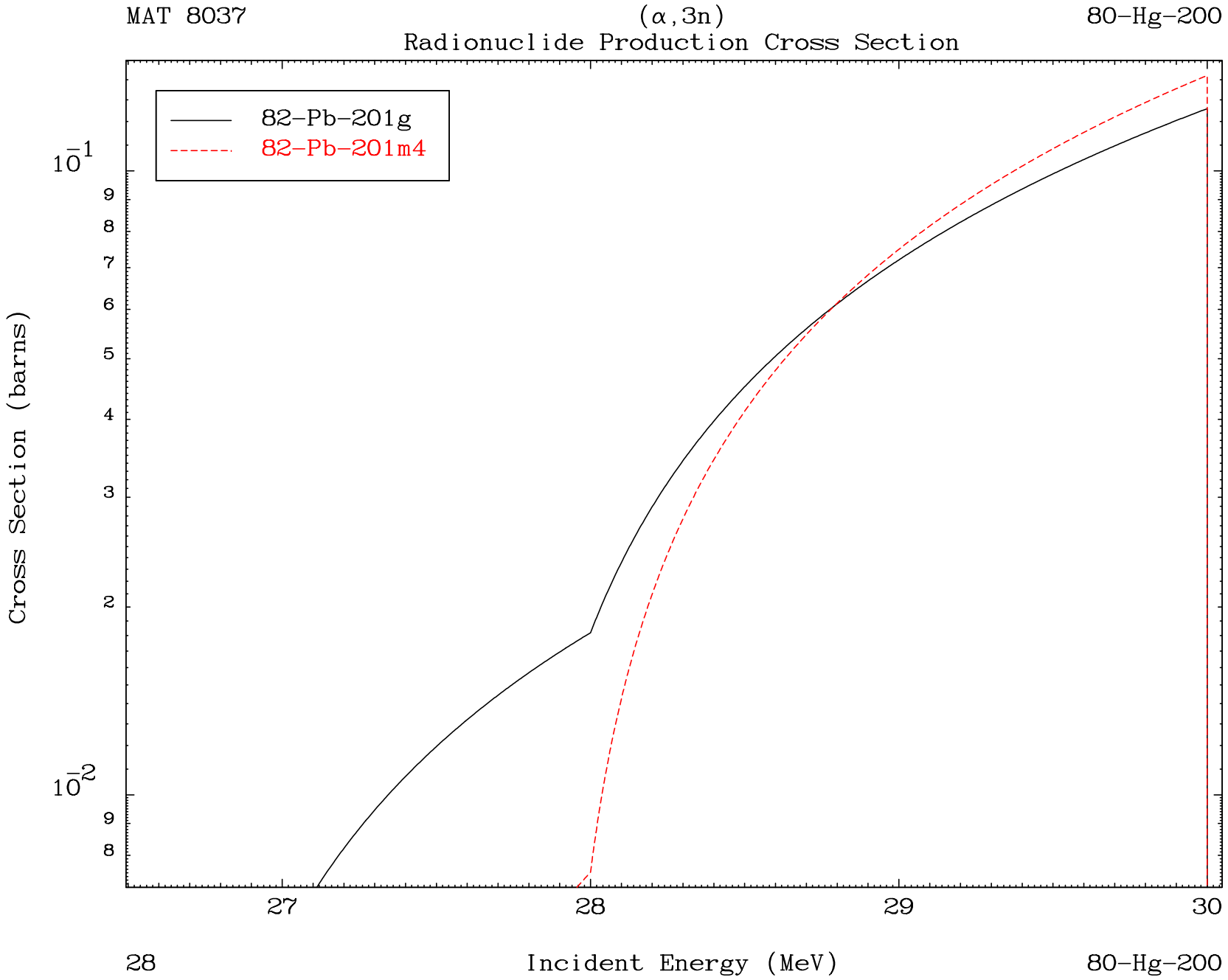

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
10-5
81-Tl-202g
81-Tl-203g
82-Pb-184g
82-Pb-185g
82-Pb-185m1
82-Pb-186g
82-Pb-187g
82-Pb-187m1
82-Pb-188g
82-Pb-189g
82-Pb-189m1
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
80-Hg-200

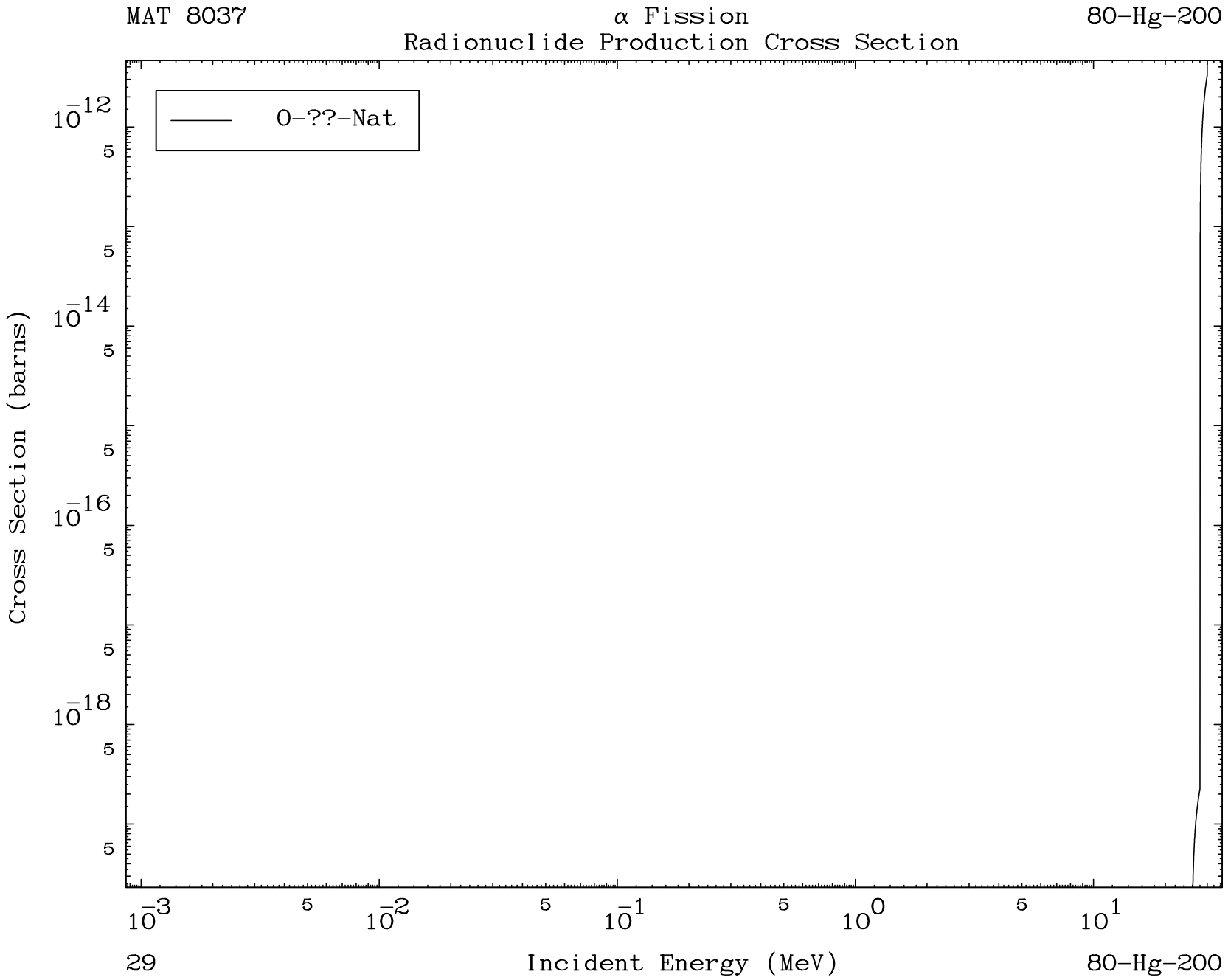

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
82-Pb-190g
82-Pb-191g
82-Pb-191m1
82-Pb-192g
82-Pb-193g
82-Pb-193m1
82-Pb-194g
82-Pb-195g
82-Pb-195m1
82-Pb-196g
82-Pb-197g
Cross Section (barns)
10^1
5
10^0
5
10^-1
5
10^-2
5
10^-3
5
10^-4
5
60
80
100
120
140
160
180
200
24
Incident Energy (MeV)
80-Hg-200

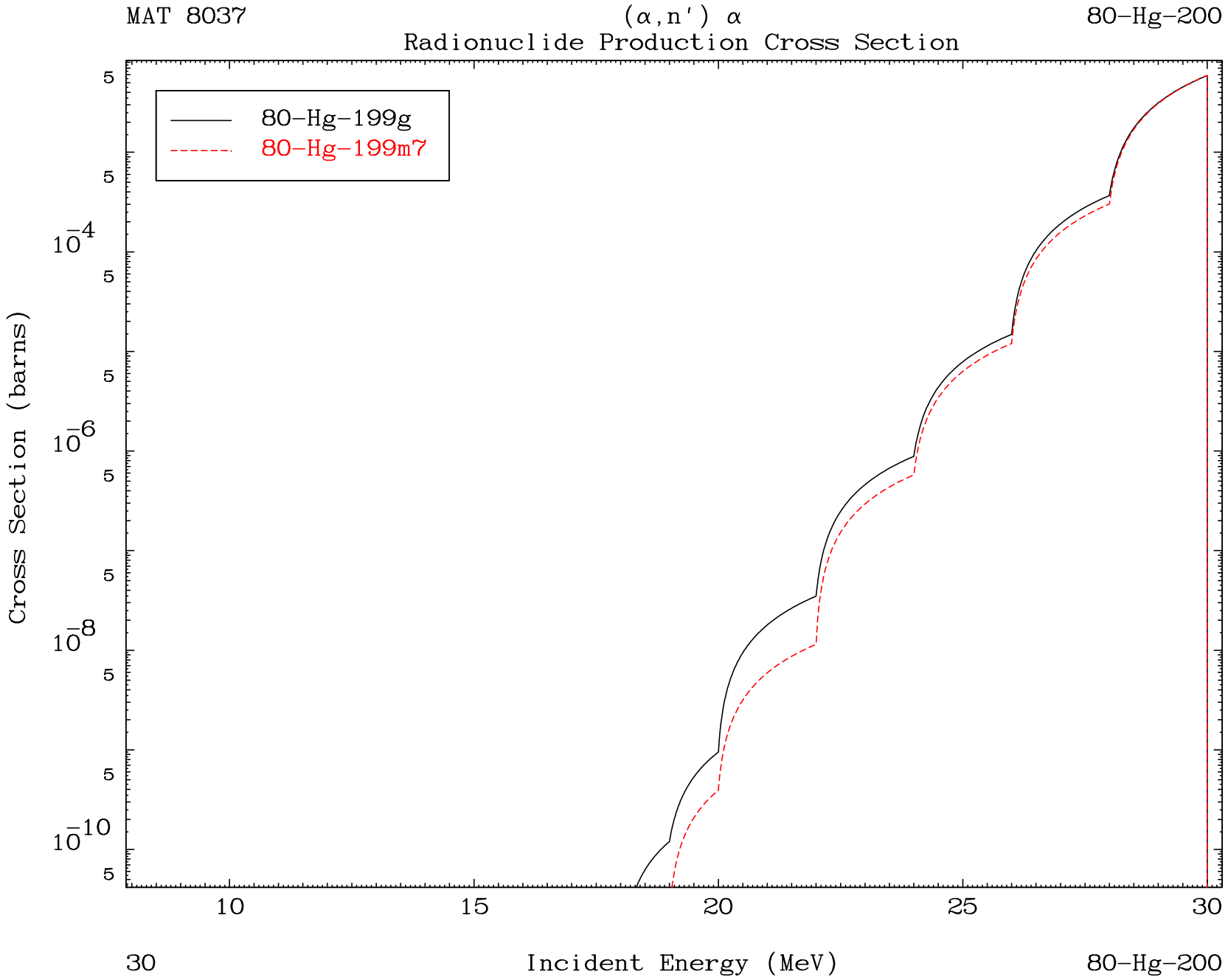

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
82-Pb-197m1
82-Pb-198g
82-Pb-199g
82-Pb-199m1
82-Pb-200g
82-Pb-201g
82-Pb-201m1
82-Pb-202g
82-Pb-202m1
82-Pb-203g
82-Pb-203m1
Cross Section (barns)
10^2
10^0
10^-2
10^-4
3
4
5
6
7
8
9
10^2
2
25
Incident Energy (MeV)
80-Hg-200

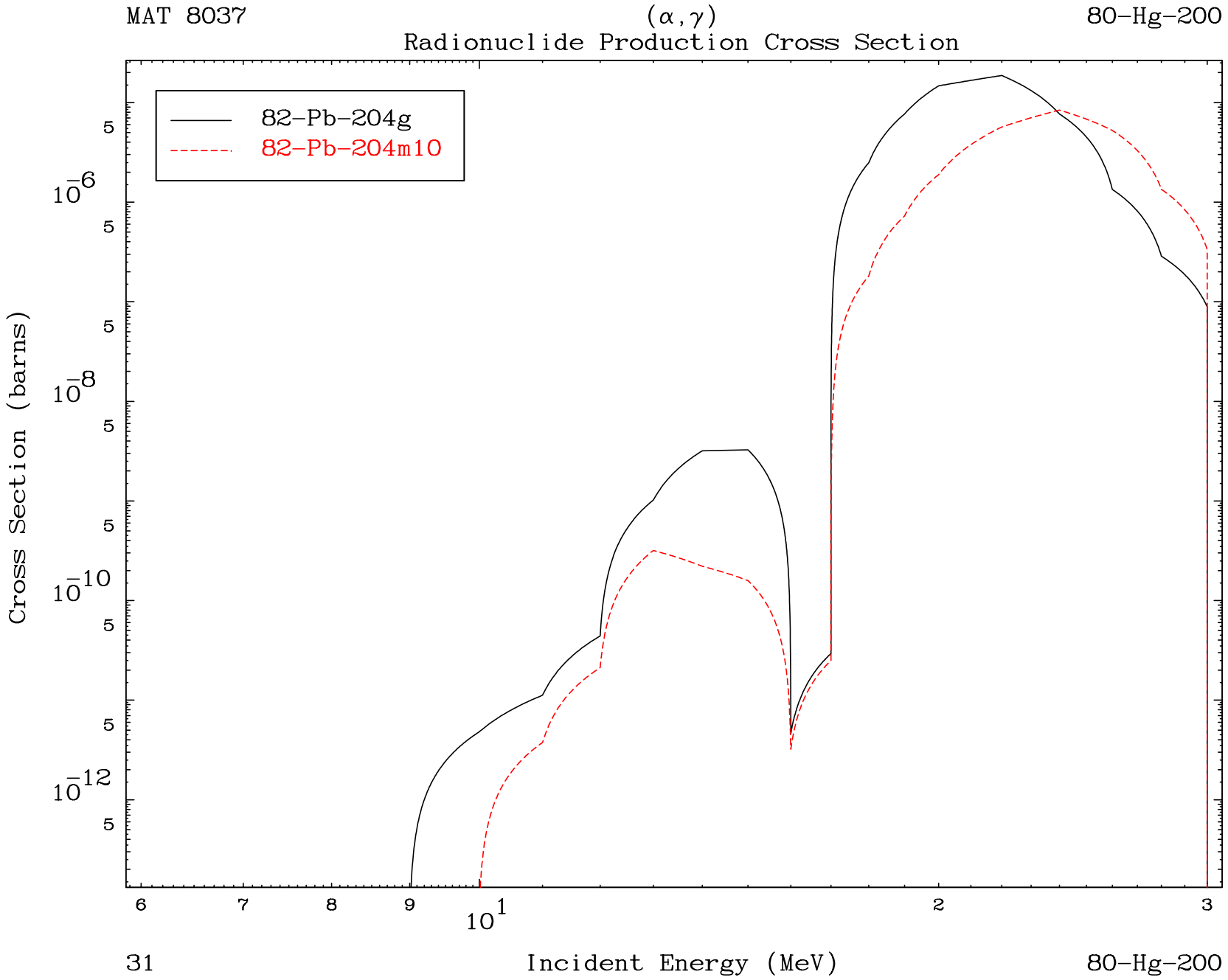

MAT 8037
(α,remainder)
80-Hg-200
Radionuclide Production Cross Section
82-Pb-203m2
Photon
Cross Section (barns)
Incident Energy (MeV)
26
80-Hg-200


MAT 8037
(α,2n)
80-Hg-200
Radionuclide Production Cross Section
82-Pb-202g
82-Pb-202m10
Cross Section (barns)
10-1
10-2
10-3
10-4
18
20
22
24
26
28
30
27
Incident Energy (MeV)
80-Hg-200


MAT 8037
(α,3n)
80-Hg-200
Radionuclide Production Cross Section
82-Pb-201g
82-Pb-201m4
Cross Section (barns)
10-1
9
8
7
6
5
4
3
2
10-2
9
8
27
28
29
30
28
Incident Energy (MeV)
80-Hg-200


MAT 8037
α Fission
80-Hg-200
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
10^-12
10^-14
10^-16
10^-18
10^-3
10^-2
10^-1
10^0
10^1
Incident Energy (MeV)
29
80-Hg-200


MAT 8037
(α,n') α
80-Hg-200
Radionuclide Production Cross Section
80-Hg-199g
80-Hg-199m7
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10
15
20
25
30
Incident Energy (MeV)
80-Hg-200


MAT 8037
(α,γ)
80-Hg-200
Radionuclide Production Cross Section
82-Pb-204g
82-Pb-204m10
Cross Section (barns)
10-6
10-8
10-10
10-12
5
6
7
8
9
10 1
2
3
31
Incident Energy (MeV)
80-Hg-200