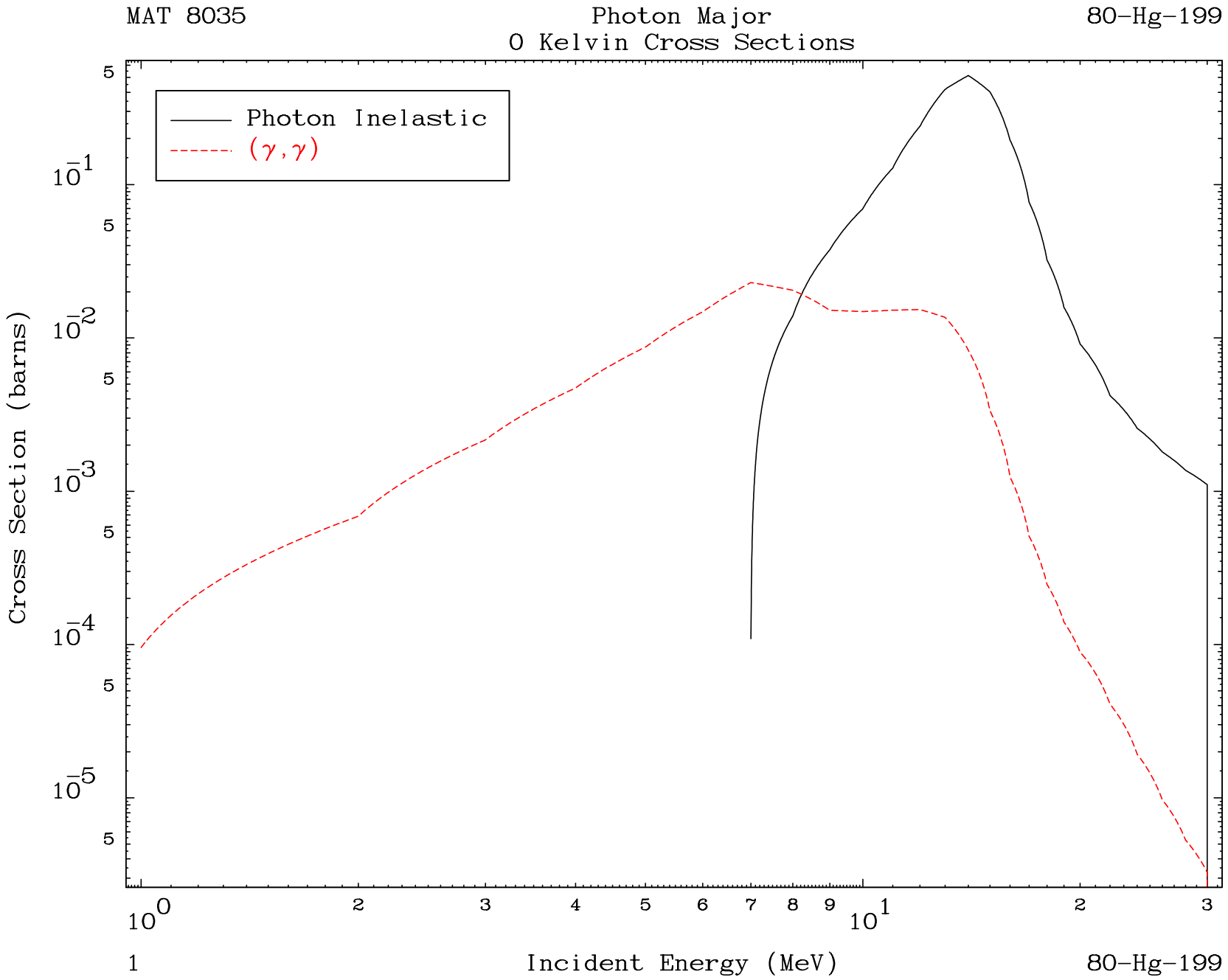
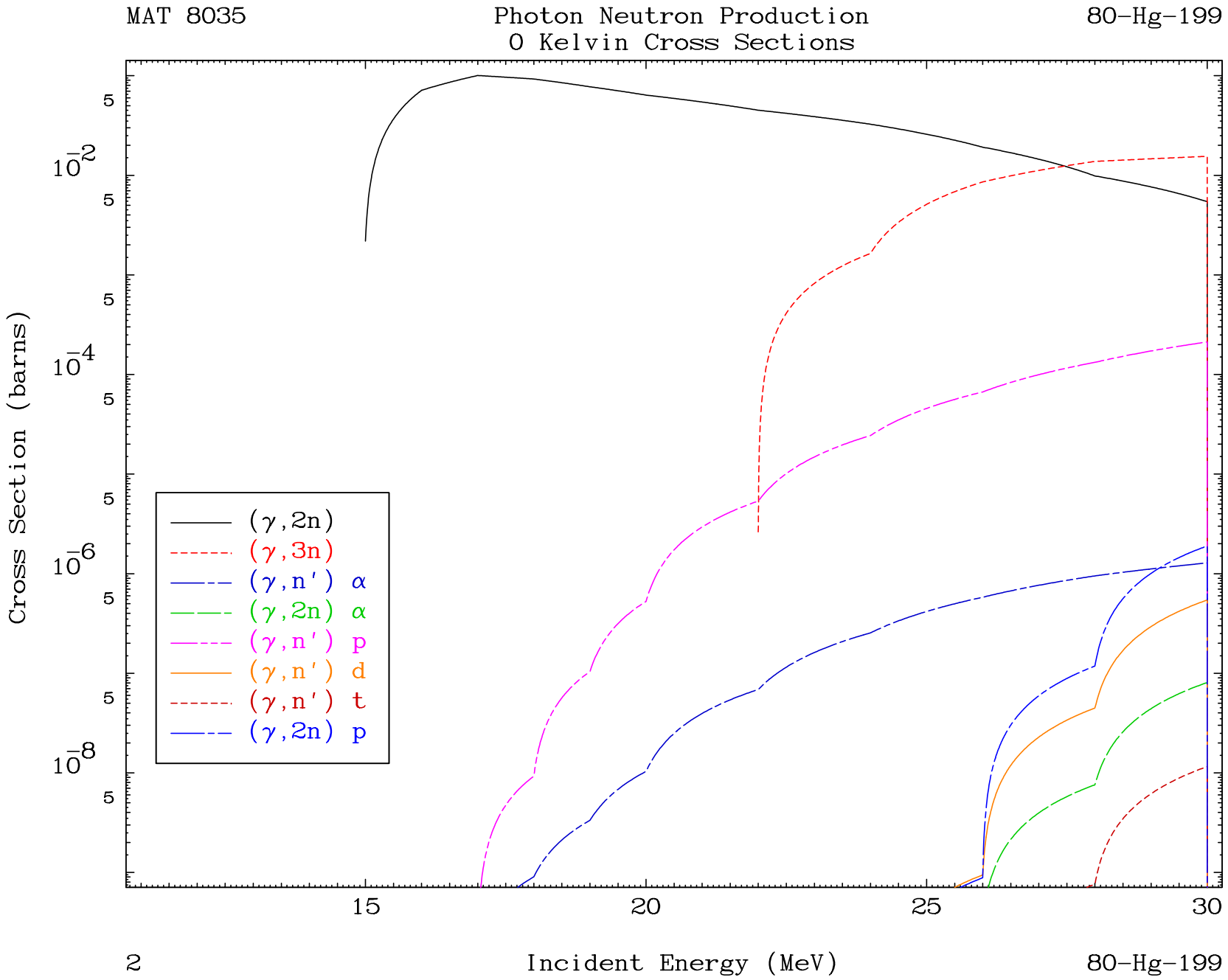
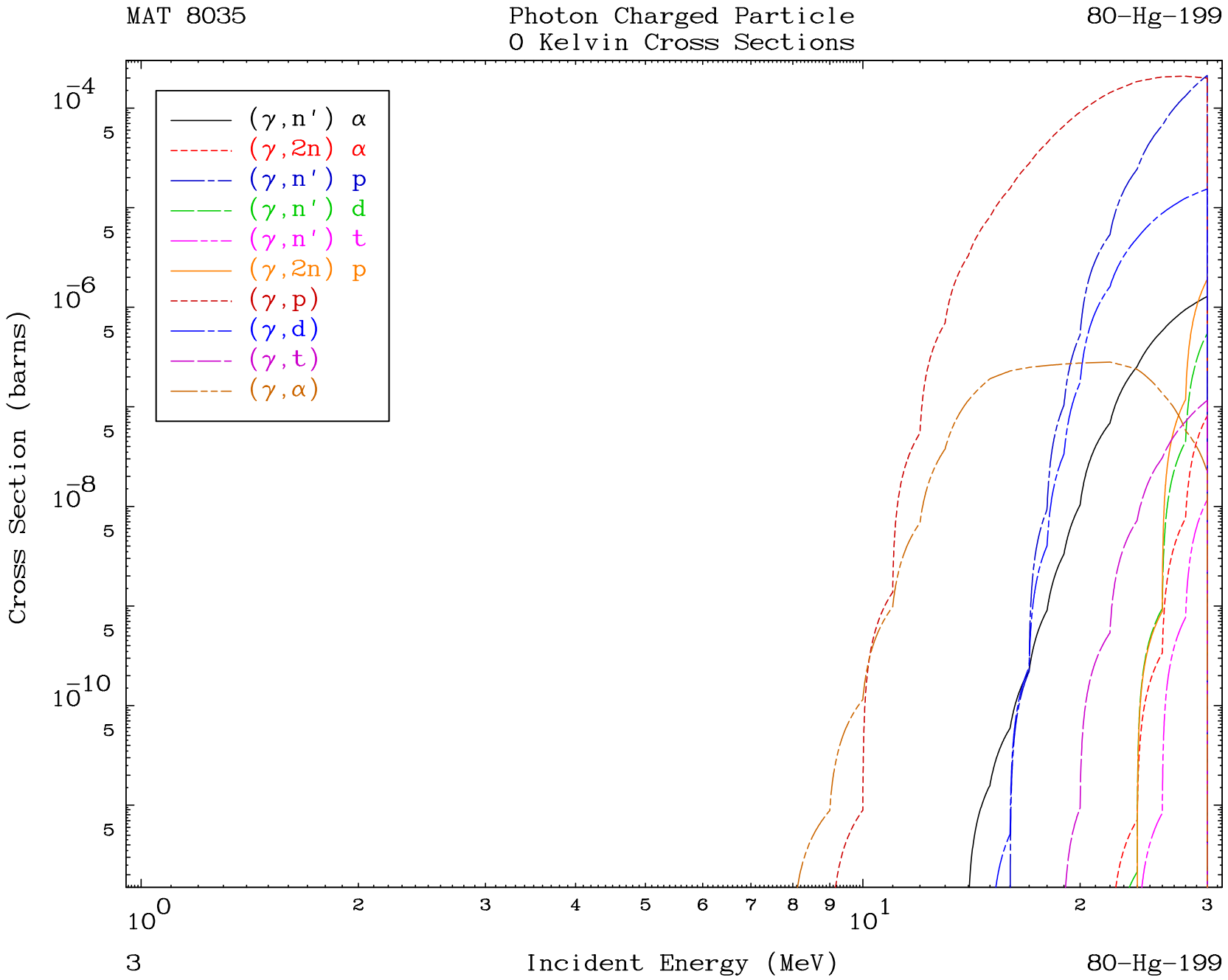
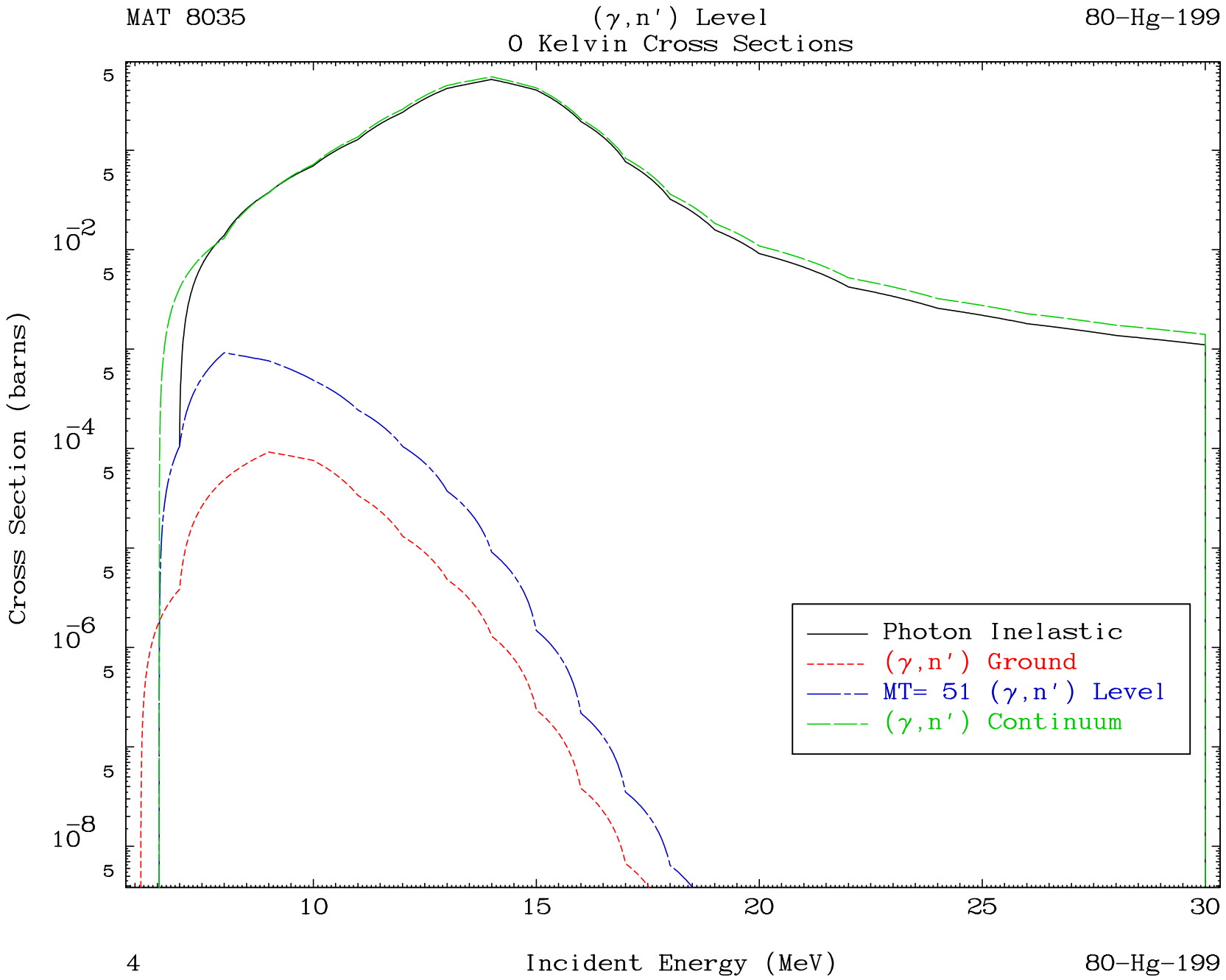
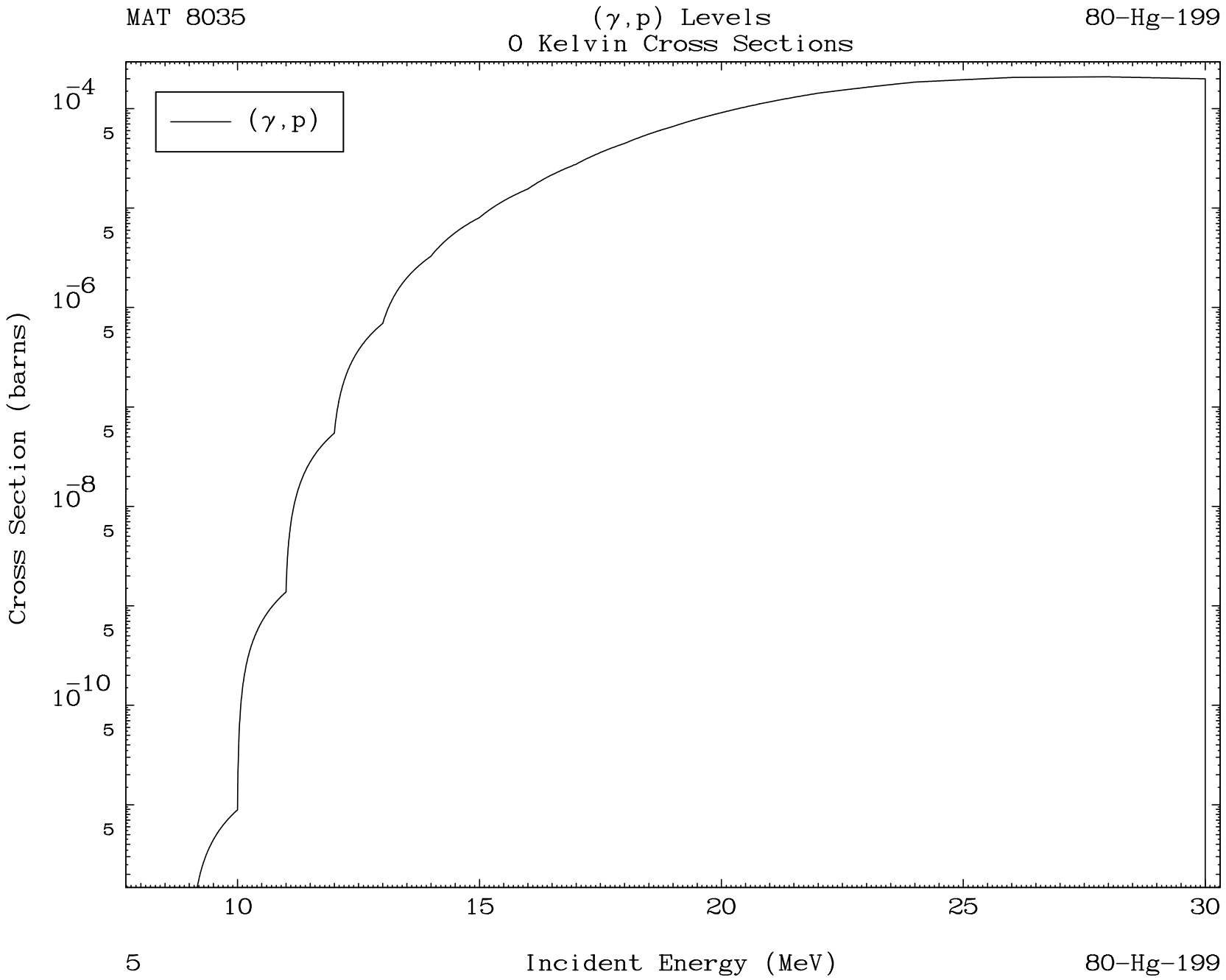
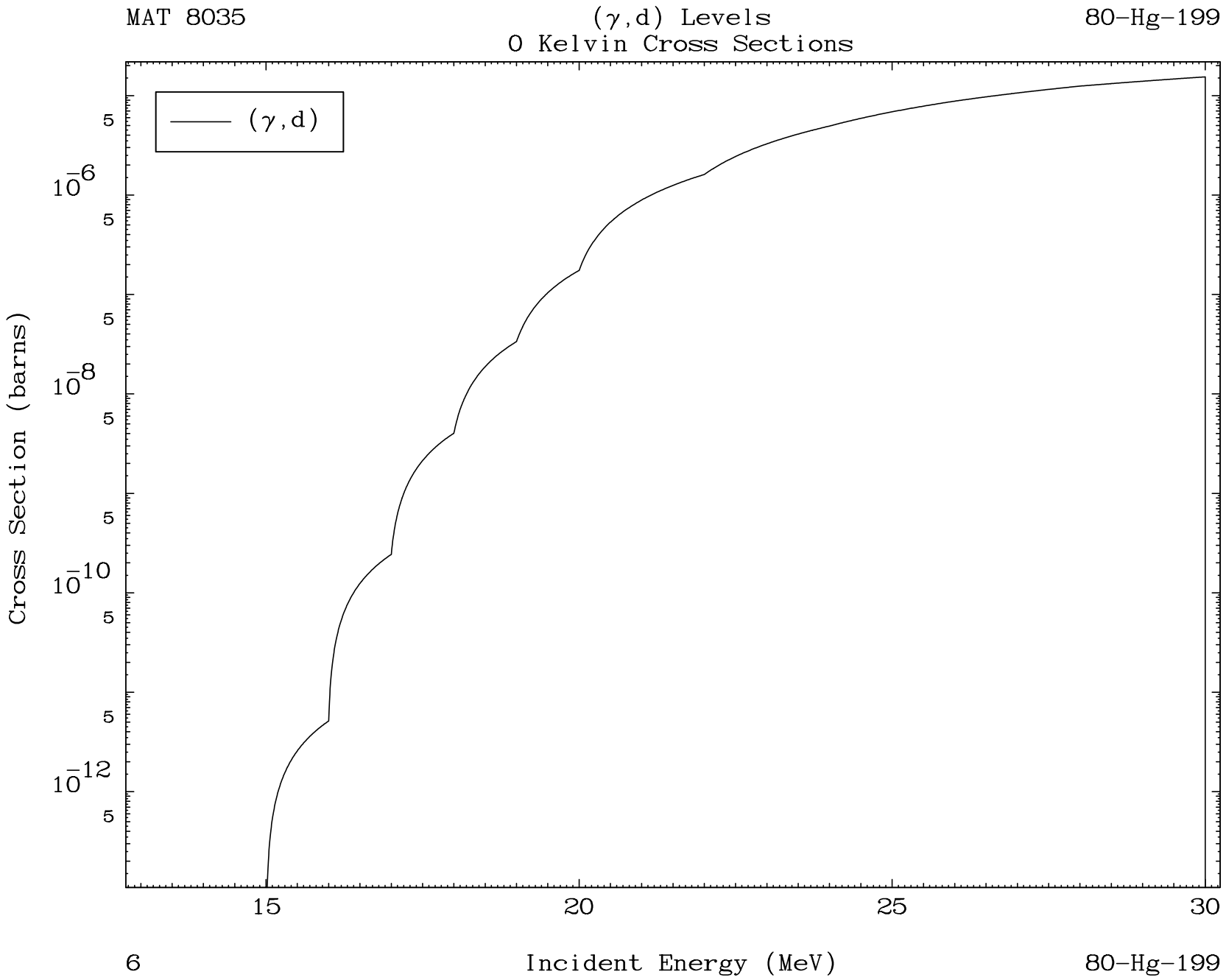

MAT 8035
Photon Major
80-Hg-199
0 Kelvin Cross Sections
Photon Inelastic
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
80-Hg-199

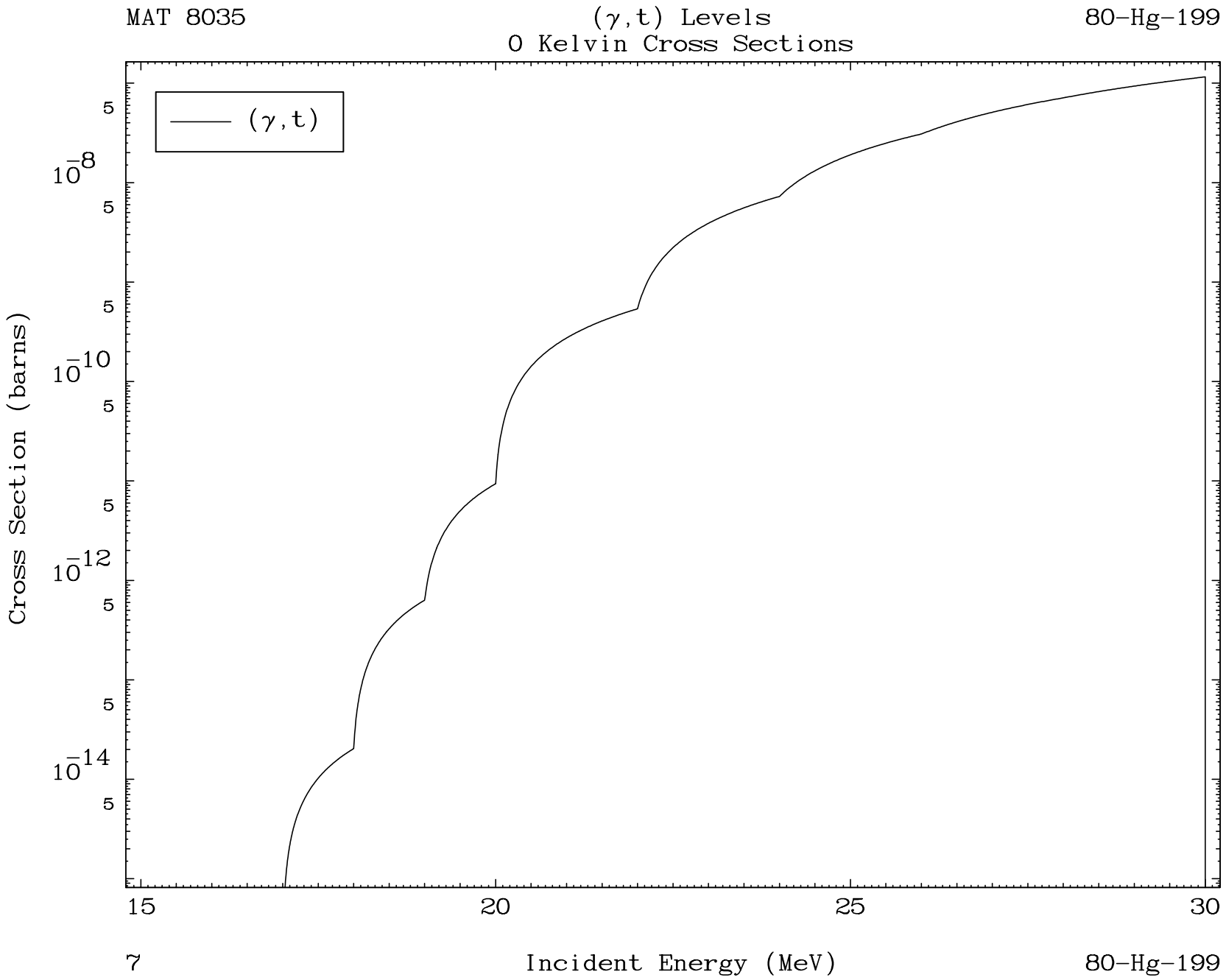

MAT 8035
Photon Neutron Production
0 Kelvin Cross Sections
80-Hg-199
Cross Section (barns)
10-2
10-4
10-6
10-8
5
15
20
25
30
Incident Energy (MeV)
2
80-Hg-199
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p

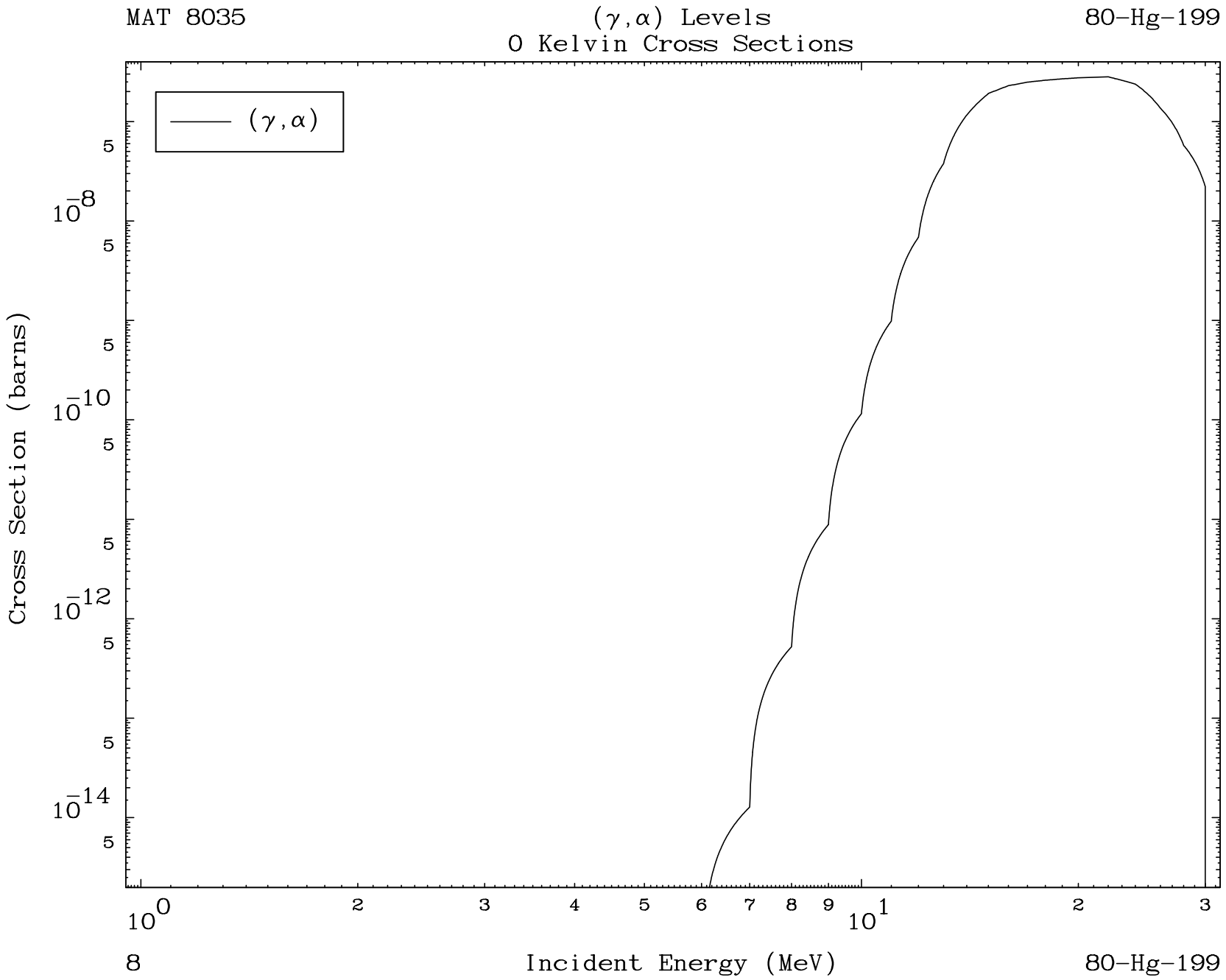

MAT 8035
Photon Charged Particle
0 Kelvin Cross Sections
80-Hg-199
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
Incident Energy (MeV)
80-Hg-199

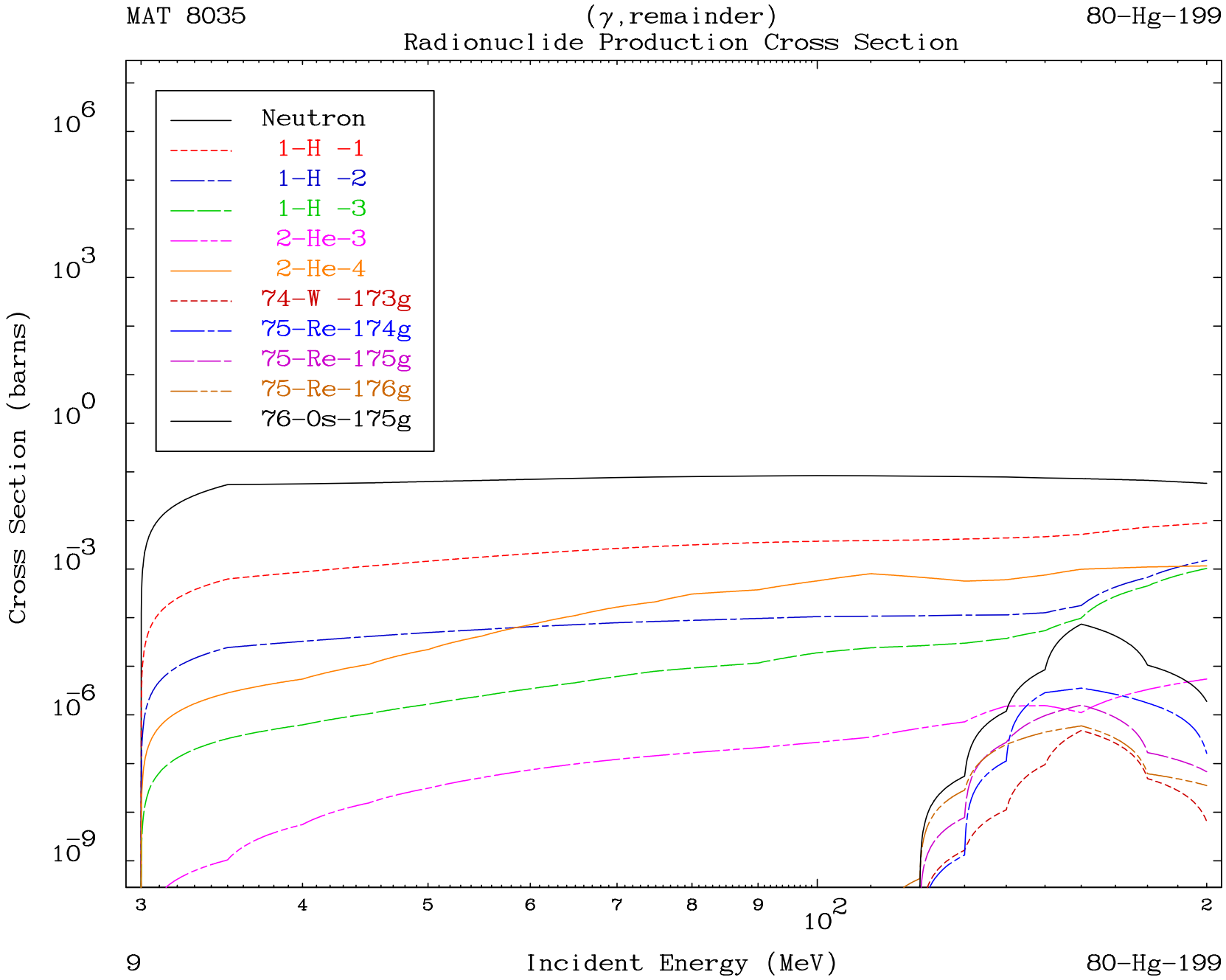

MAT 8035
(γ,n') Level
80-Hg-199
0 Kelvin Cross Sections
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10
15
20
25
30
4
Incident Energy (MeV)
80-Hg-199
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum

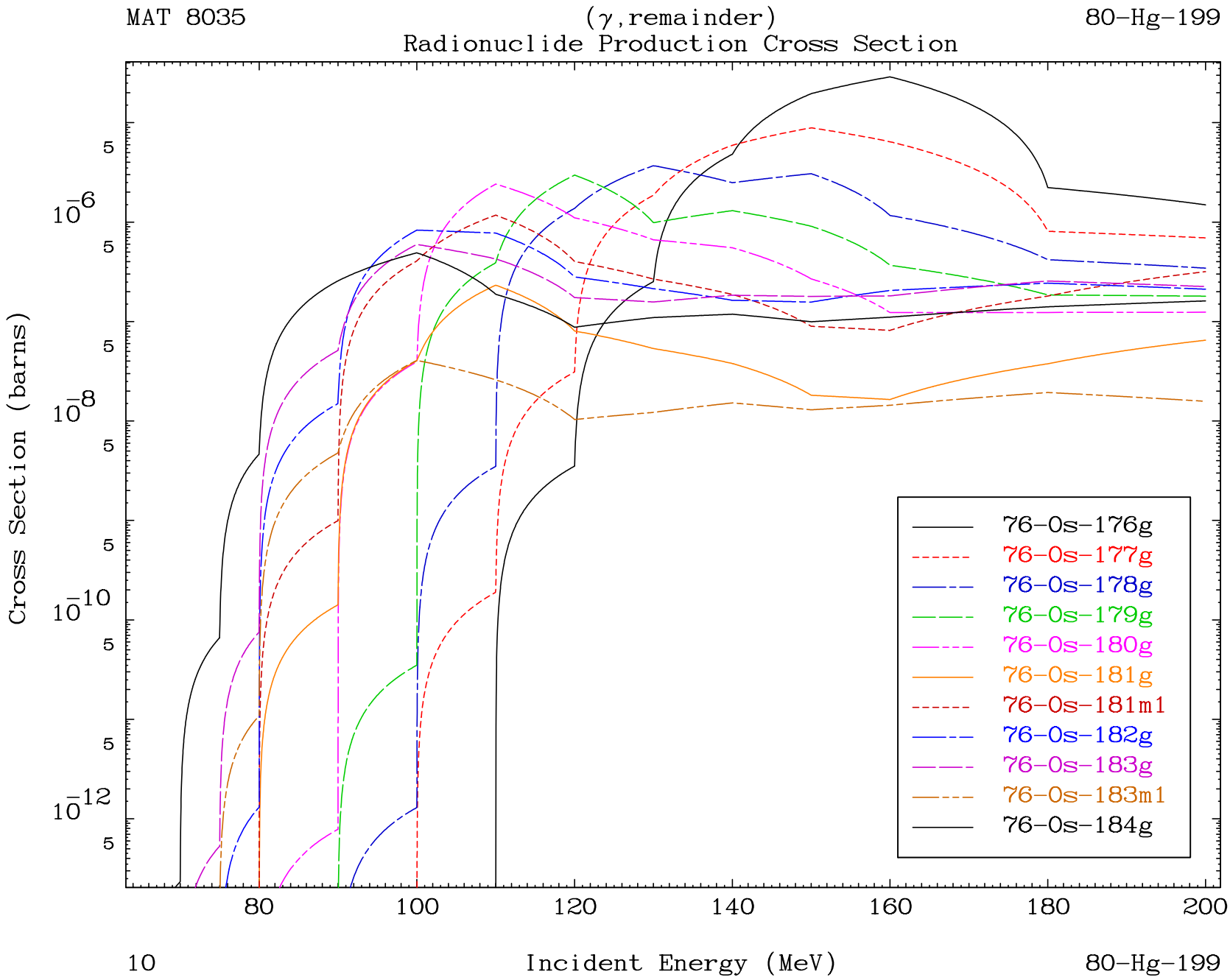

MAT 8035
(γ,p) Levels
80-Hg-199
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10
15
20
25
30
Incident Energy (MeV)
80-Hg-199

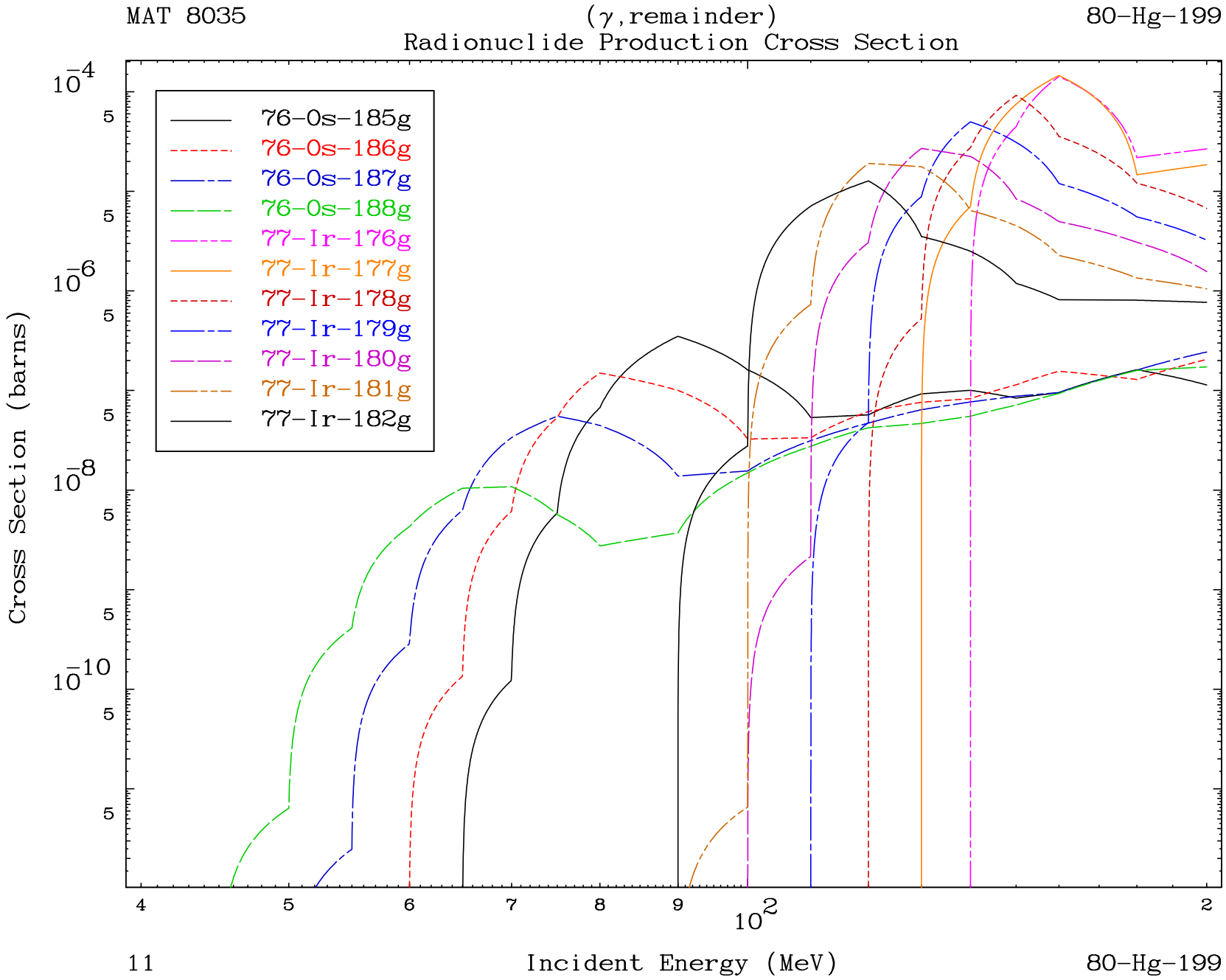

MAT 8035
(γ,d) Levels
80-Hg-199
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
15
20
25
30
Incident Energy (MeV)
6
80-Hg-199

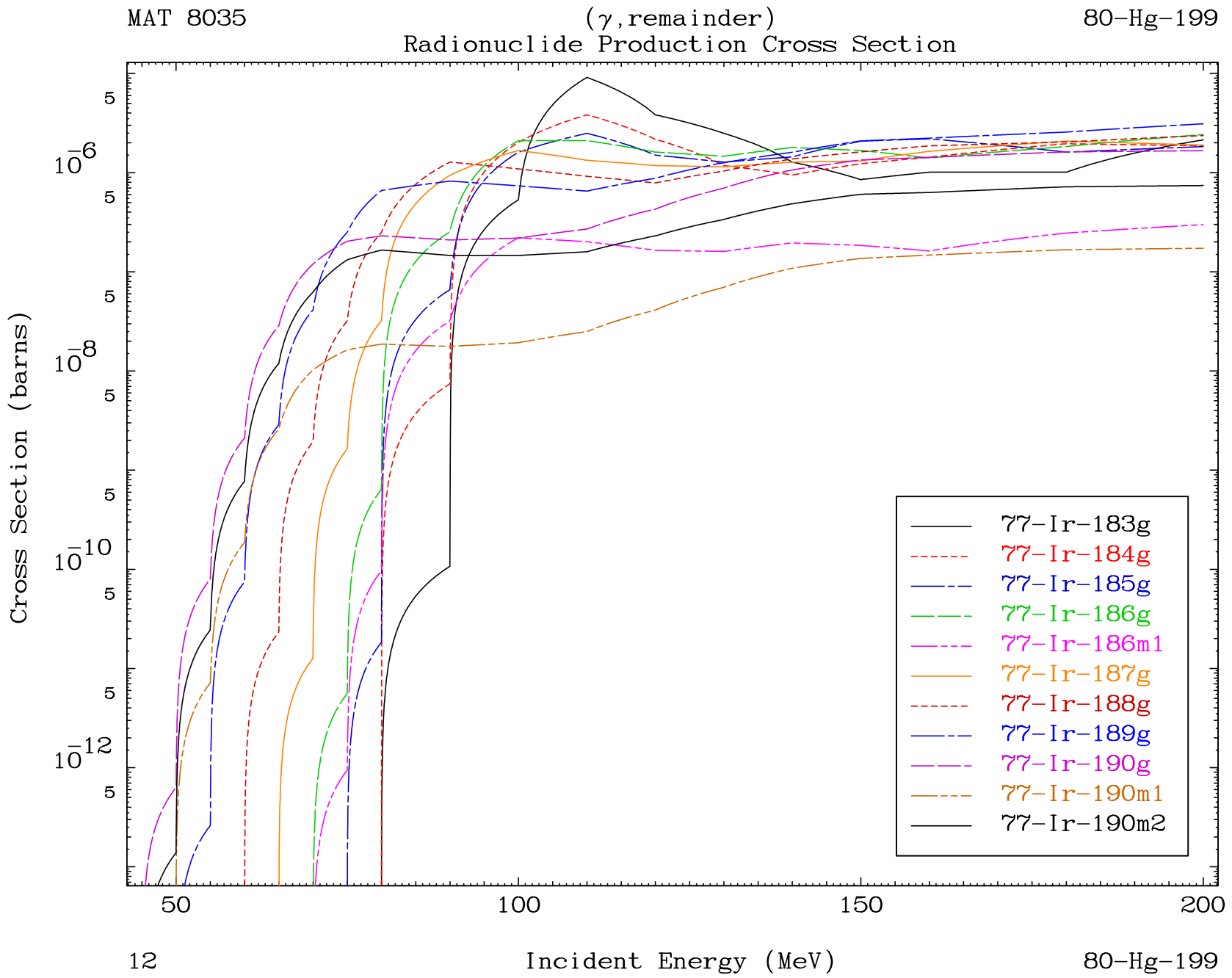

MAT 8035
(γ,t) Levels
80-Hg-199
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
15
20
25
30
Incident Energy (MeV)
7
80-Hg-199

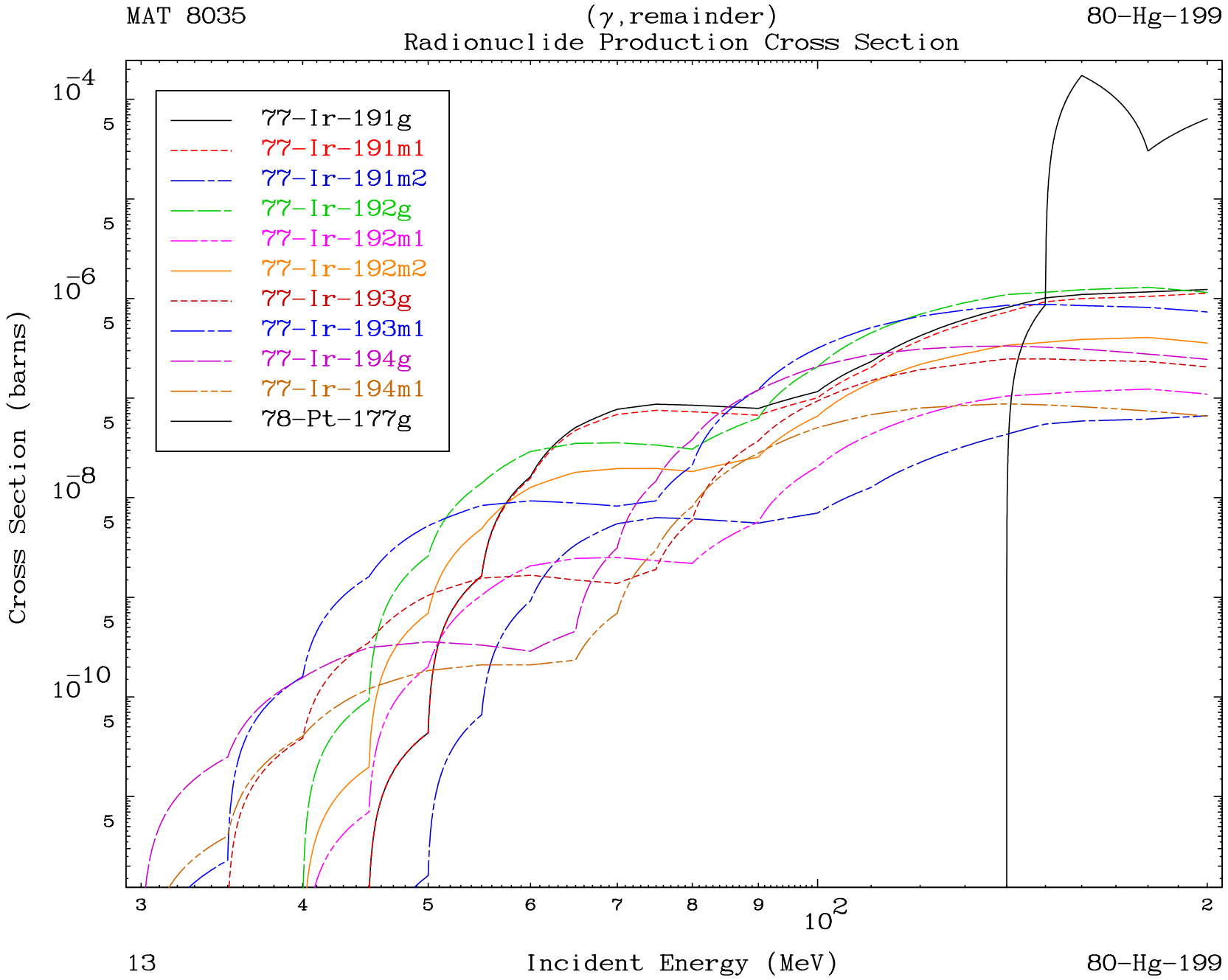

MAT 8035
(γ,α) Levels
80-Hg-199
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10⁻8
10⁻10
10⁻12
10⁻14
5
10⁰
2
3
4
5
6
7
8
9
10¹
2
3
Incident Energy (MeV)
8
80-Hg-199

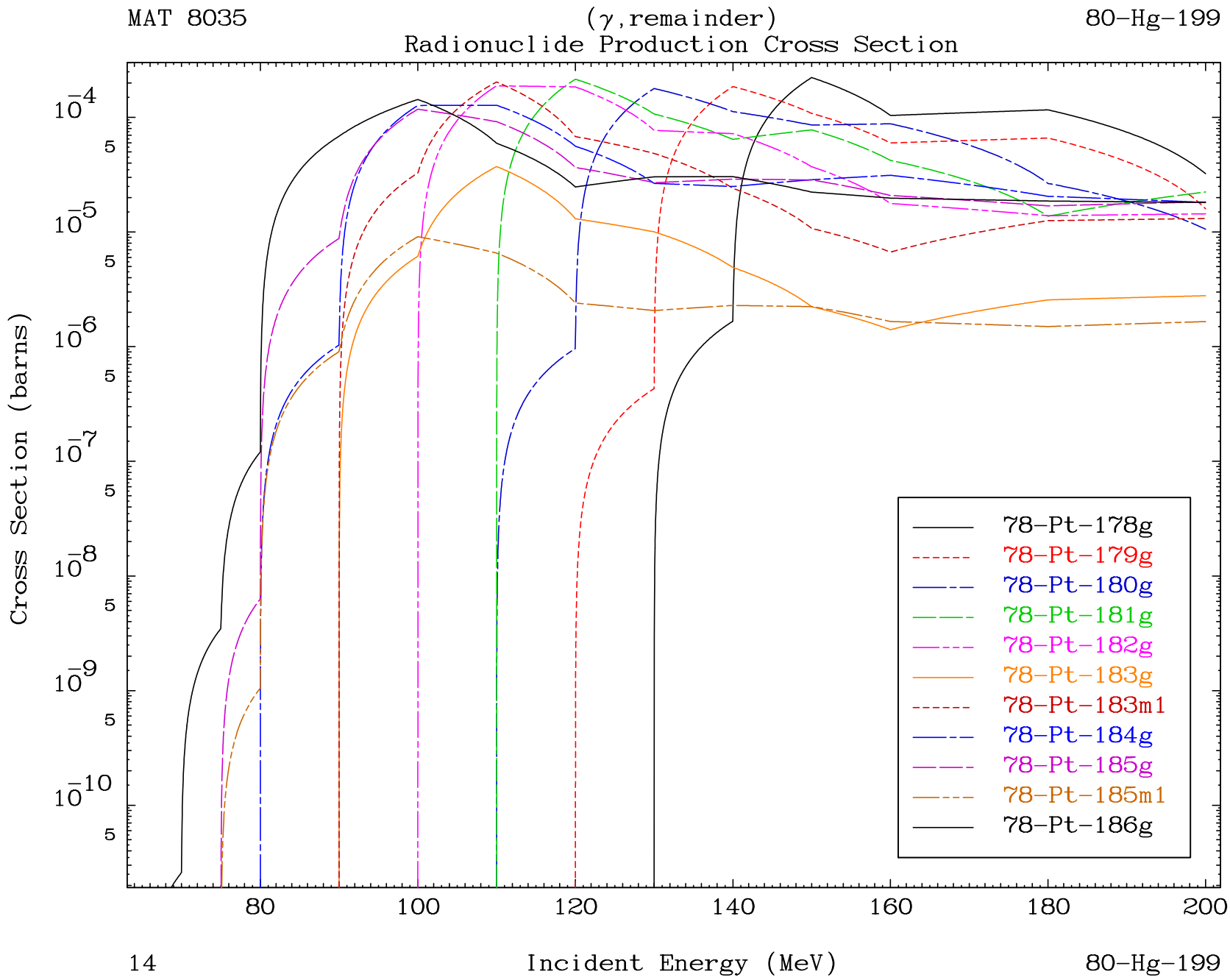

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
74-W -173g
75-Re-174g
75-Re-175g
75-Re-176g
76-Os-175g
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
3
4
5
6
7
8
9
10^2
2
9
Incident Energy (MeV)
80-Hg-199


MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
80
100
120
140
160
180
200
10
Incident Energy (MeV)
80-Hg-199
76-0s-176g
76-0s-177g
76-0s-178g
76-0s-179g
76-0s-180g
76-0s-181g
76-0s-181m1
76-0s-182g
76-0s-183g
76-0s-183m1
76-0s-184g

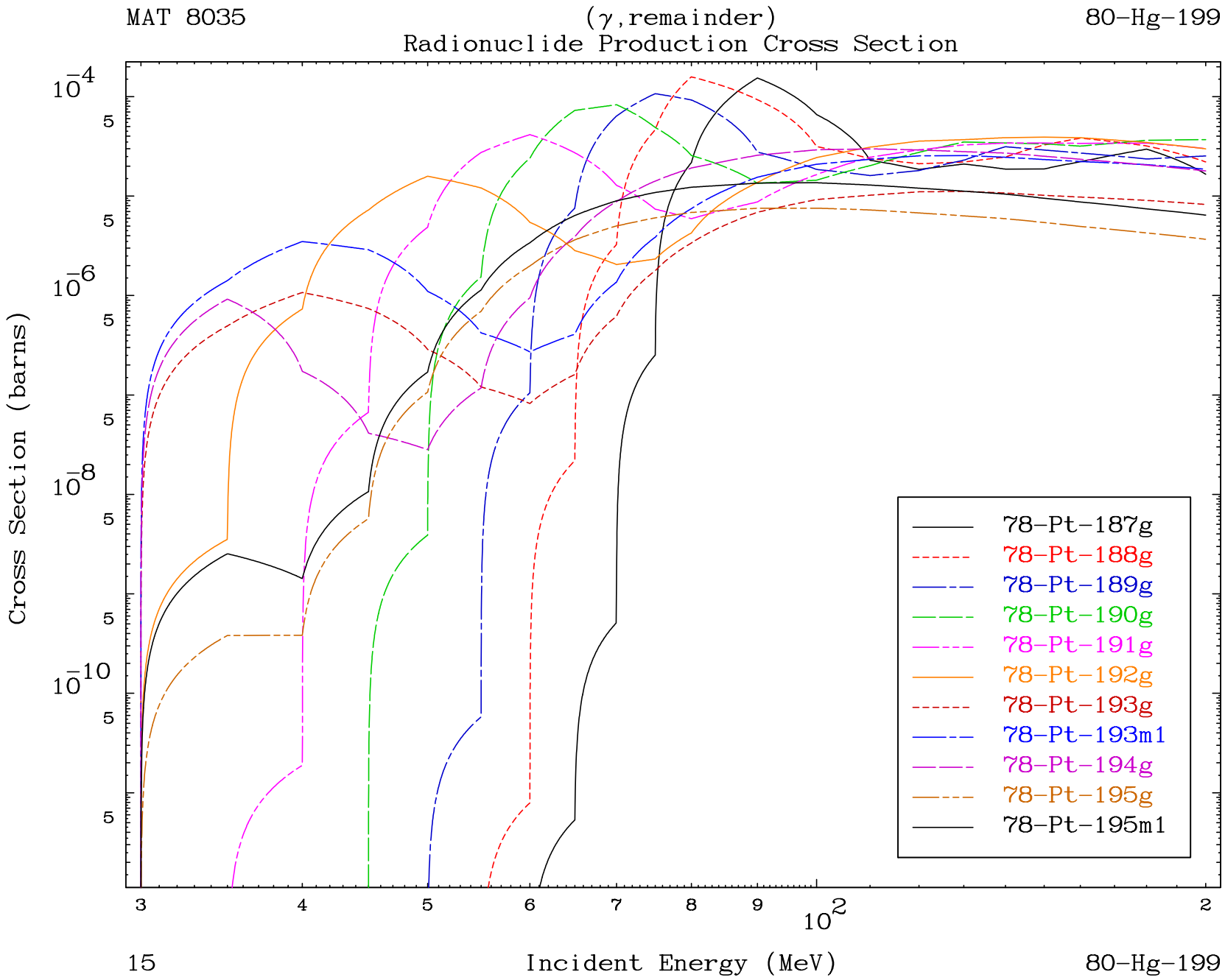

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
76-0s-185g
76-0s-186g
76-0s-187g
76-0s-188g
77-Ir-176g
77-Ir-177g
77-Ir-178g
77-Ir-179g
77-Ir-180g
77-Ir-181g
77-Ir-182g
Cross Section (barns)
Incident Energy (MeV)
11
80-Hg-199

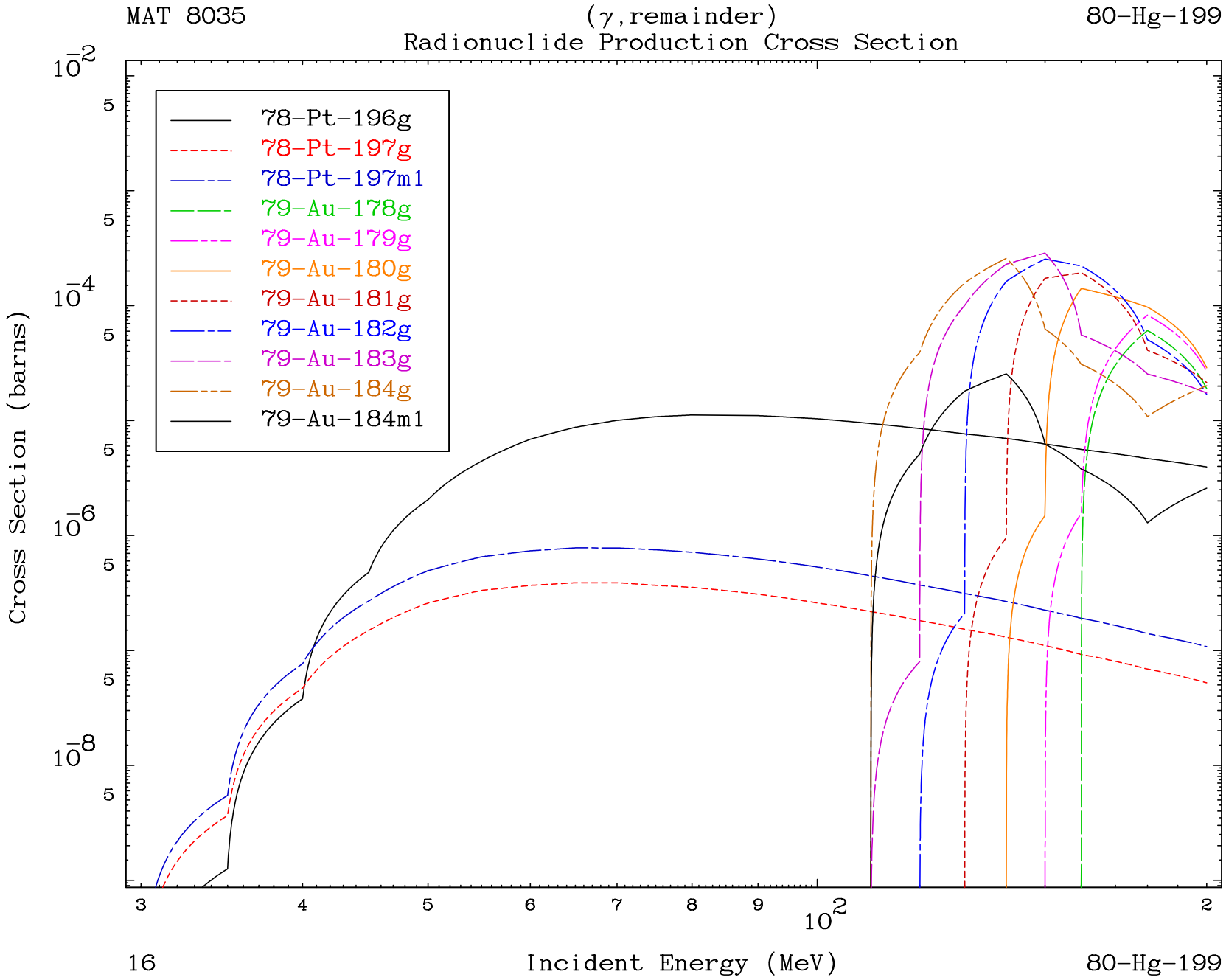

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
5
50
100
150
200
Incident Energy (MeV)
12
80-Hg-199
77-Ir-183g
77-Ir-184g
77-Ir-185g
77-Ir-186g
77-Ir-186m1
77-Ir-187g
77-Ir-188g
77-Ir-189g
77-Ir-190g
77-Ir-190m1
77-Ir-190m2

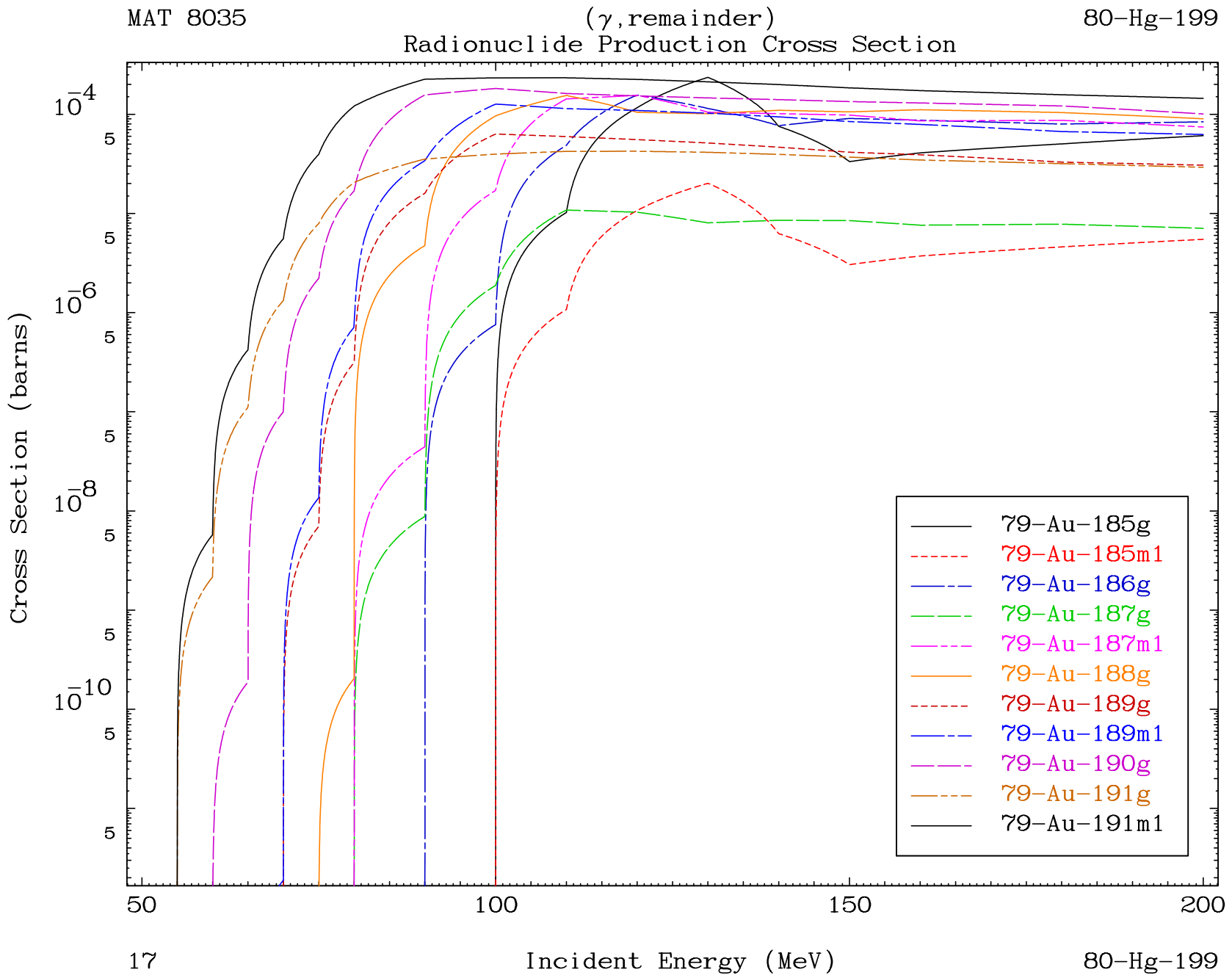

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
77-Ir-191g
77-Ir-191m1
77-Ir-191m2
77-Ir-192g
77-Ir-192m1
77-Ir-192m2
77-Ir-193g
77-Ir-193m1
77-Ir-194g
77-Ir-194m1
78-Pt-177g
Cross Section (barns)
Incident Energy (MeV)
13
80-Hg-199

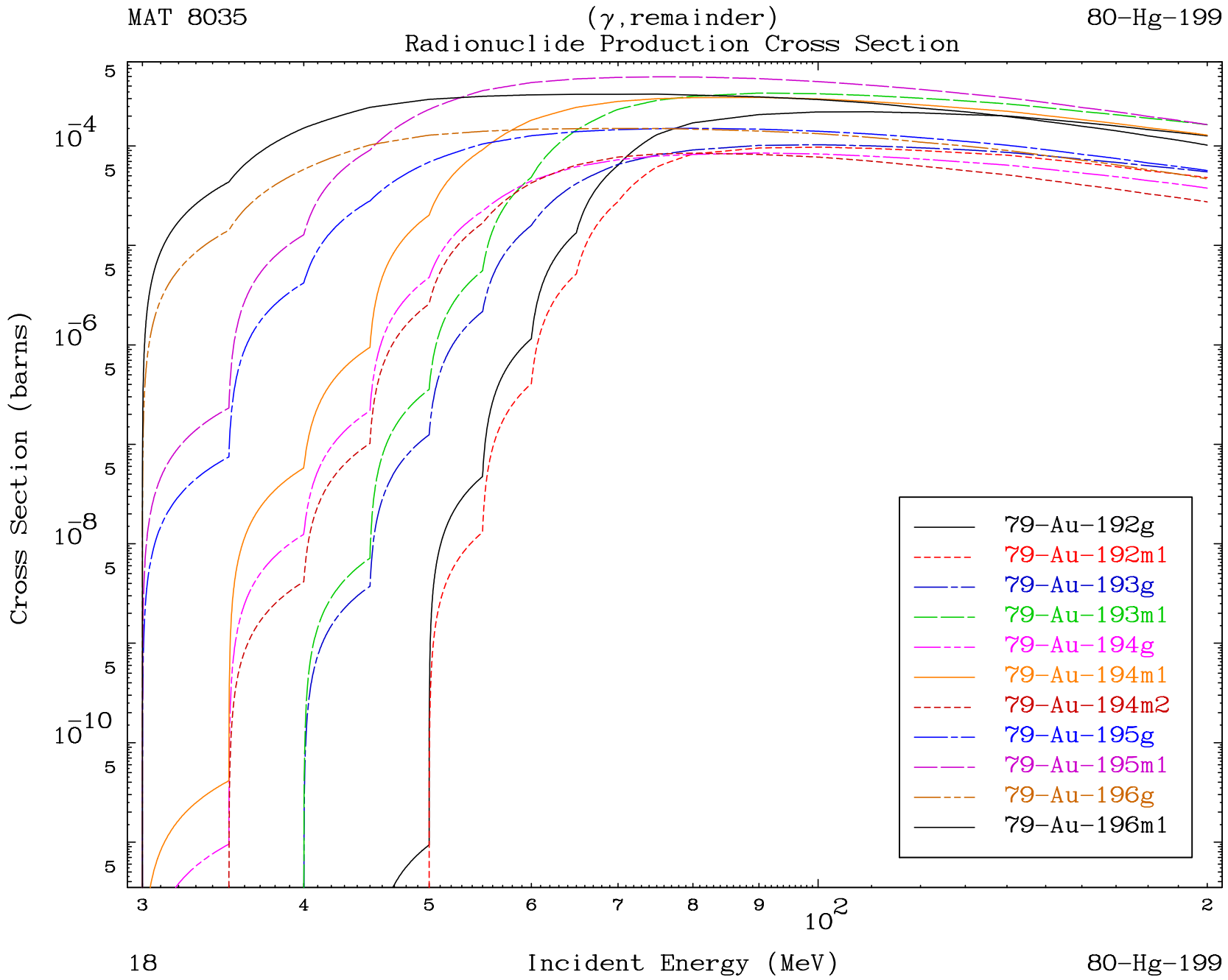

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-5
10-6
10-7
10-8
10-9
10-10
80
100
120
140
160
180
200
Incident Energy (MeV)
78-Pt-178g
78-Pt-179g
78-Pt-180g
78-Pt-181g
78-Pt-182g
78-Pt-183g
78-Pt-183m1
78-Pt-184g
78-Pt-185g
78-Pt-185m1
78-Pt-186g

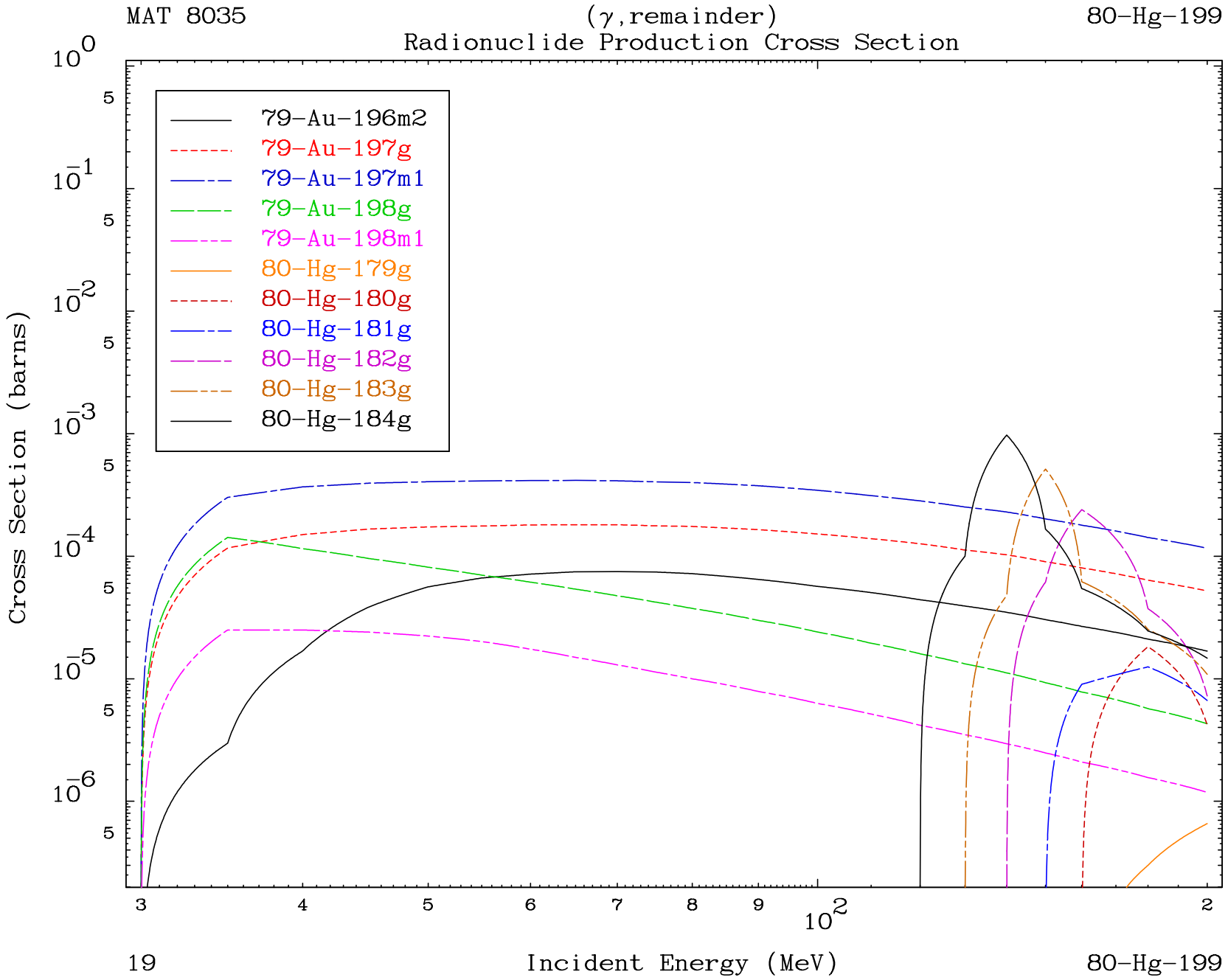
80-Hg-199

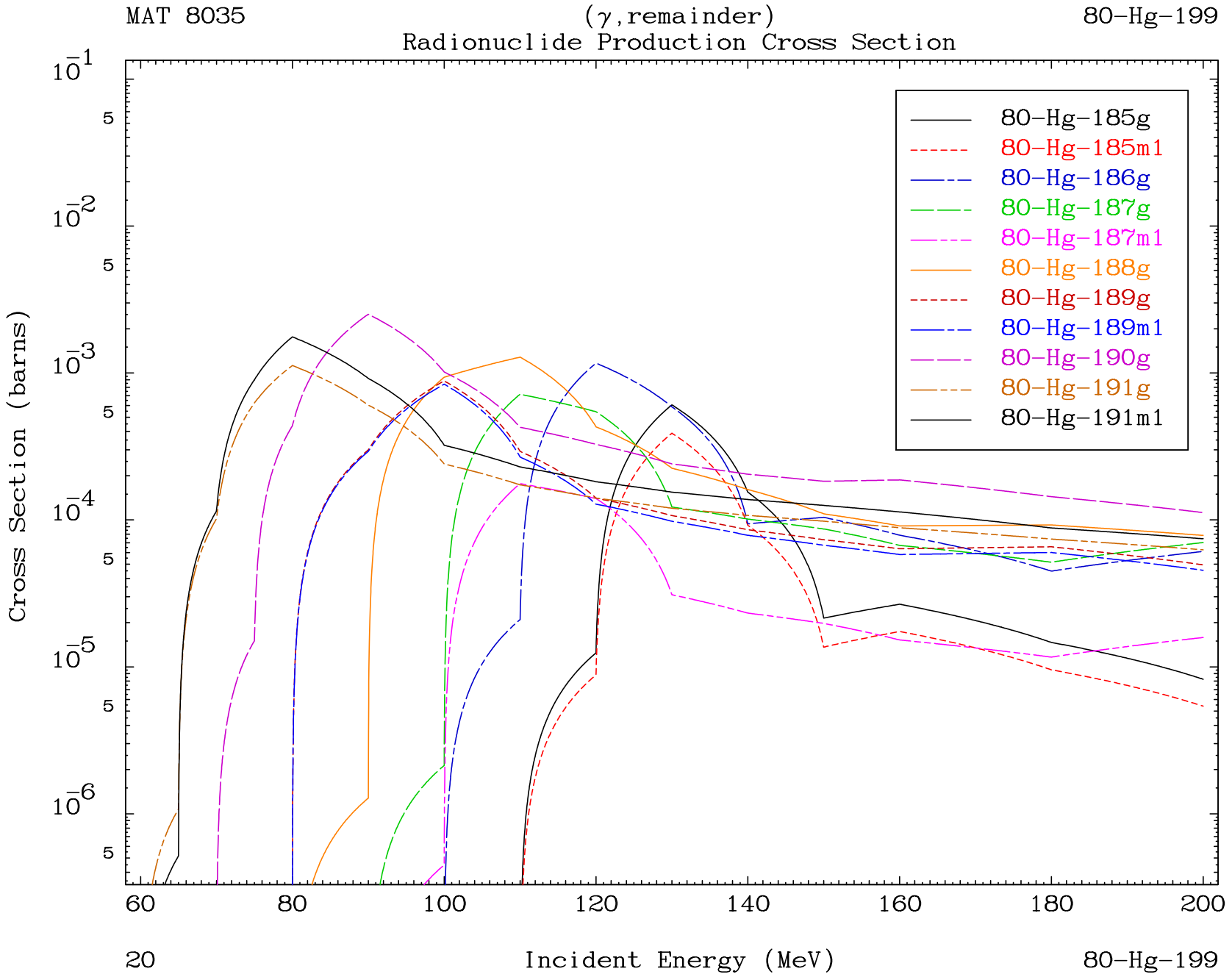

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
78-Pt-187g
78-Pt-188g
78-Pt-189g
78-Pt-190g
78-Pt-191g
78-Pt-192g
78-Pt-193g
78-Pt-193m1
78-Pt-194g
78-Pt-195g
78-Pt-195m1
15
Incident Energy (MeV)
80-Hg-199

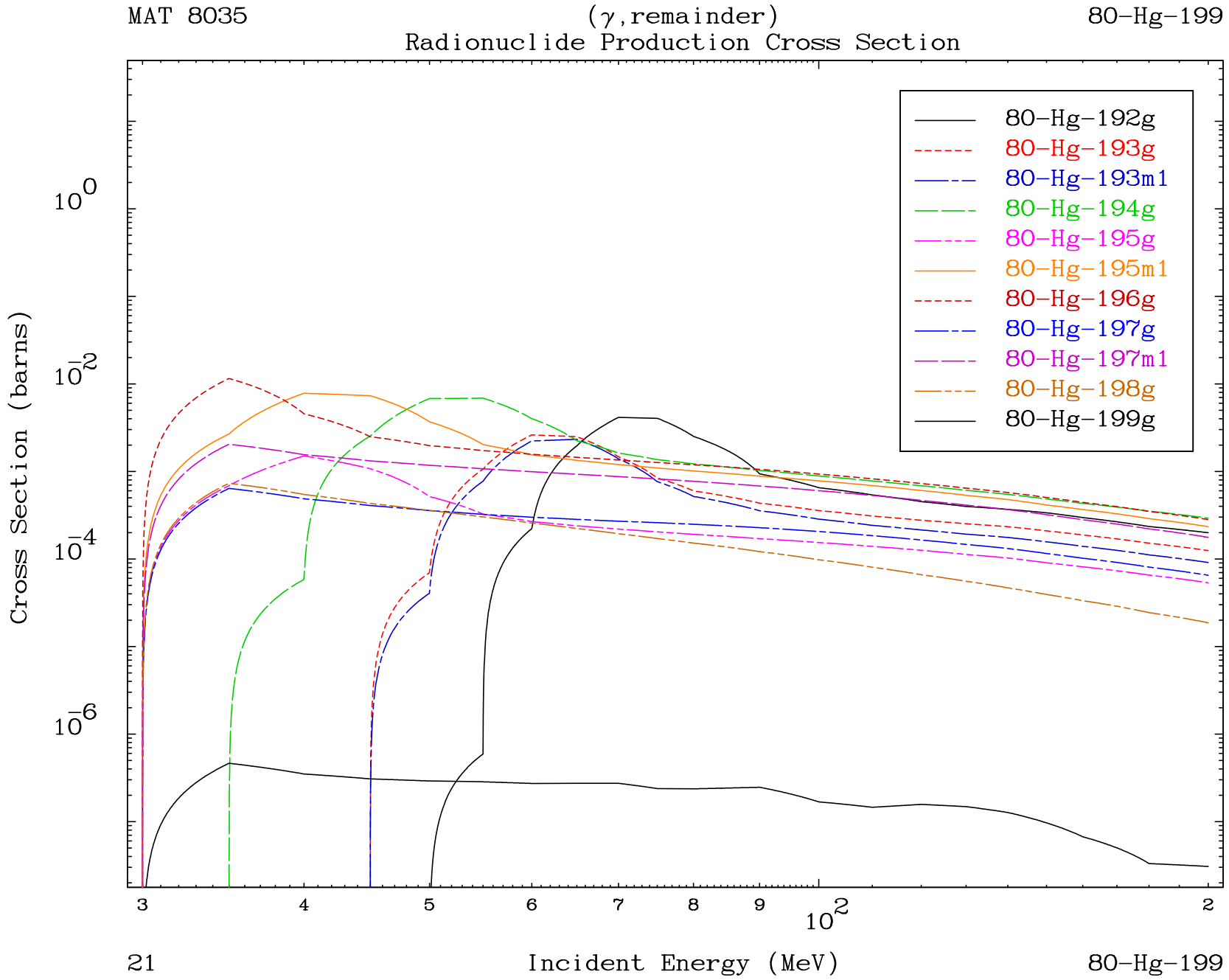

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
78-Pt-196g
78-Pt-197g
78-Pt-197m1
79-Au-178g
79-Au-179g
79-Au-180g
79-Au-181g
79-Au-182g
79-Au-183g
79-Au-184g
79-Au-184m1
Cross Section (barns)
Incident Energy (MeV)
16
80-Hg-199

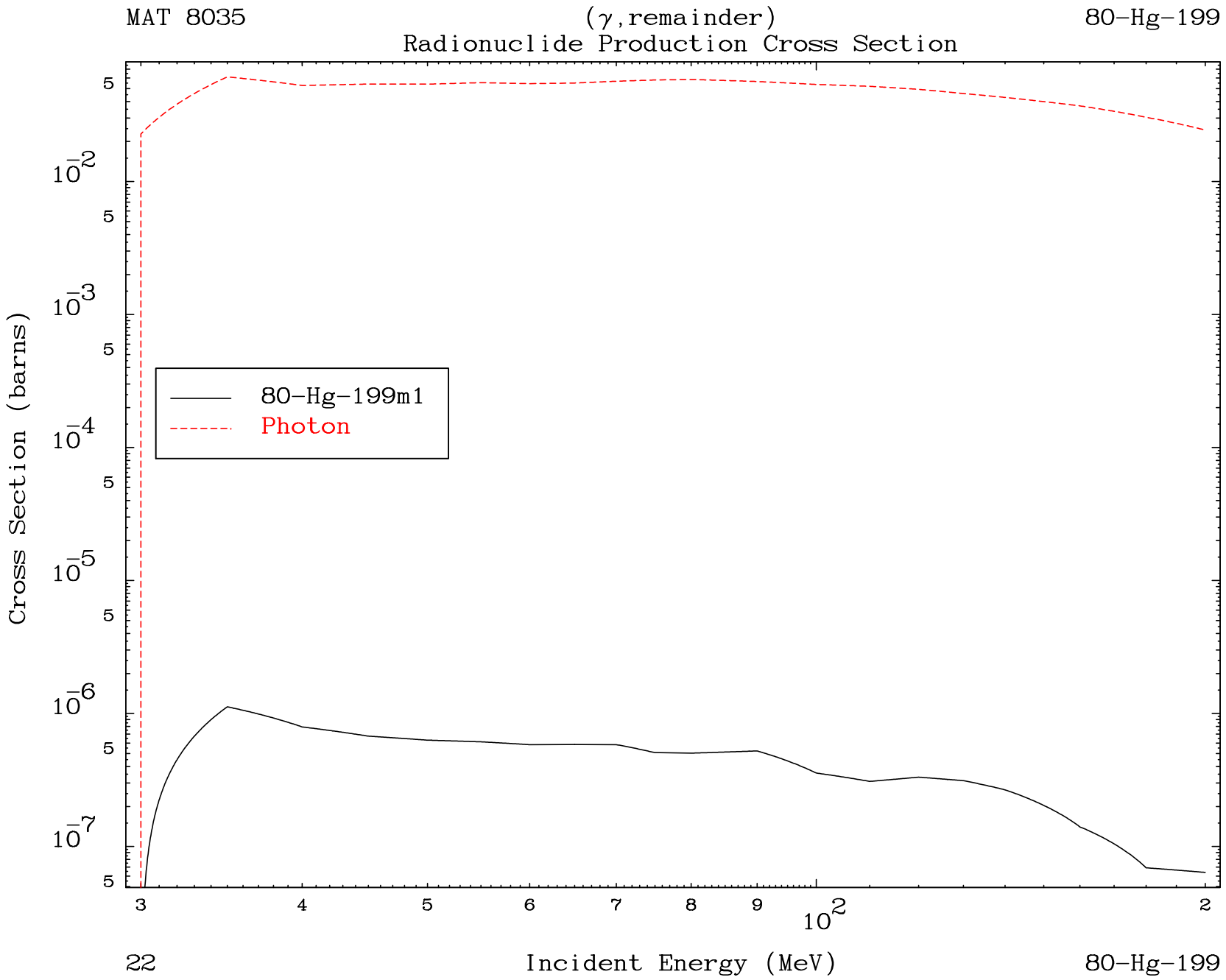

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
50
100
150
200
17
Incident Energy (MeV)
80-Hg-199
79-Au-185g
79-Au-185m1
79-Au-186g
79-Au-187g
79-Au-187m1
79-Au-188g
79-Au-189g
79-Au-189m1
79-Au-190g
79-Au-191g
79-Au-191m1

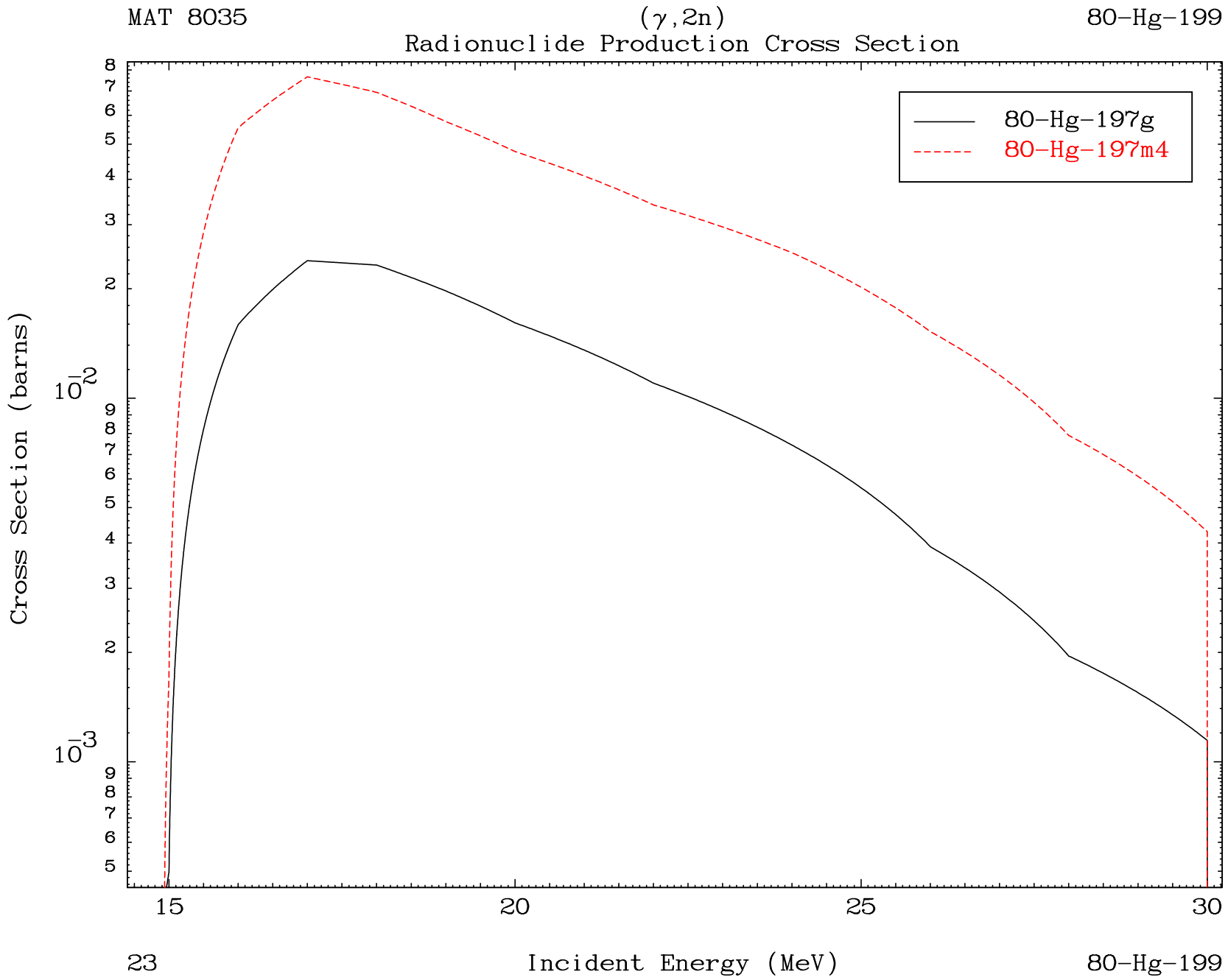

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
79-Au-192g
79-Au-192m1
79-Au-193g
79-Au-193m1
79-Au-194g
79-Au-194m1
79-Au-194m2
79-Au-195g
79-Au-195m1
79-Au-196g
79-Au-196m1

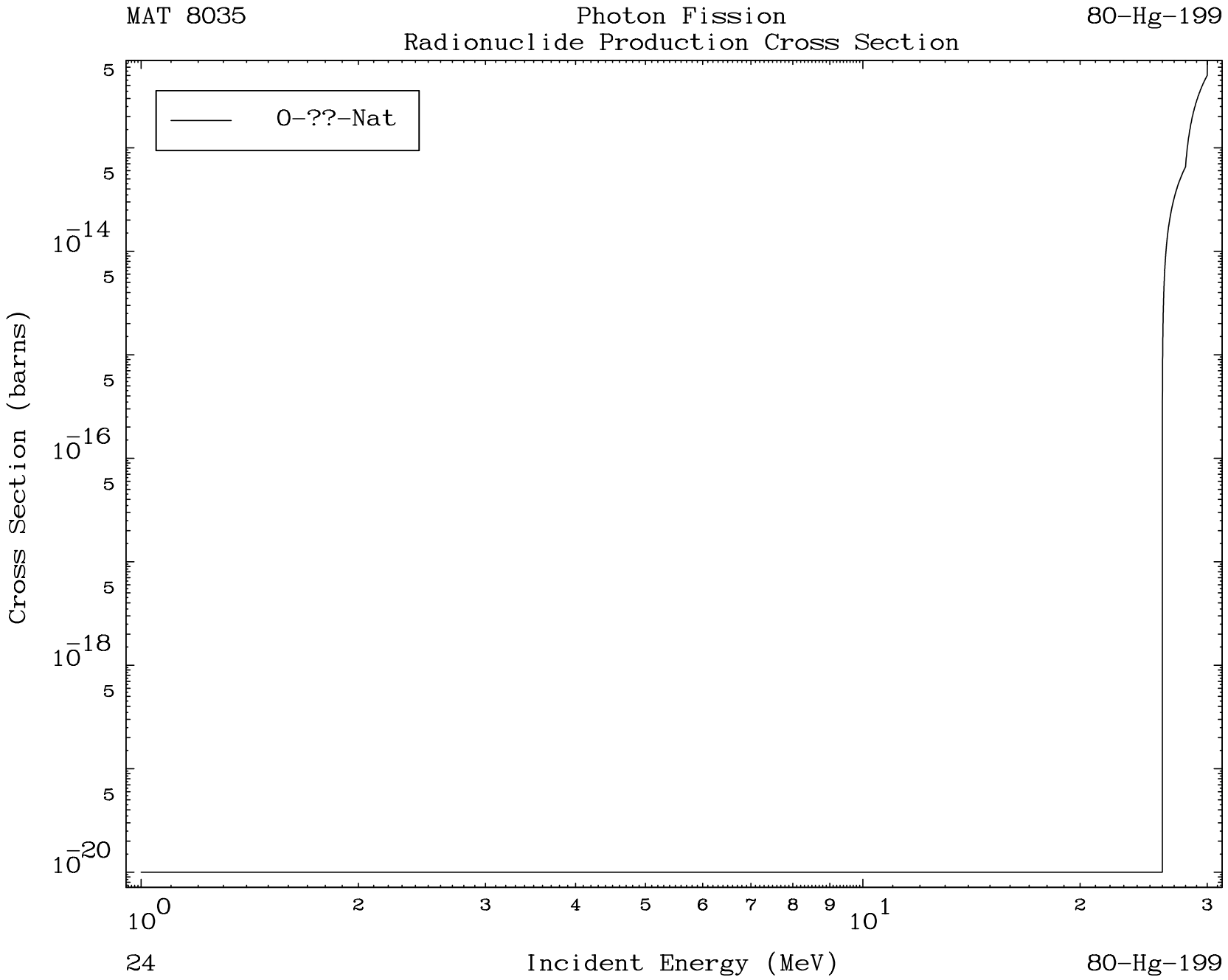

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
79-Au-196m2
79-Au-197g
79-Au-197m1
79-Au-198g
79-Au-198m1
80-Hg-179g
80-Hg-180g
80-Hg-181g
80-Hg-182g
80-Hg-183g
80-Hg-184g
Cross Section (barns)
Incident Energy (MeV)
19
80-Hg-199

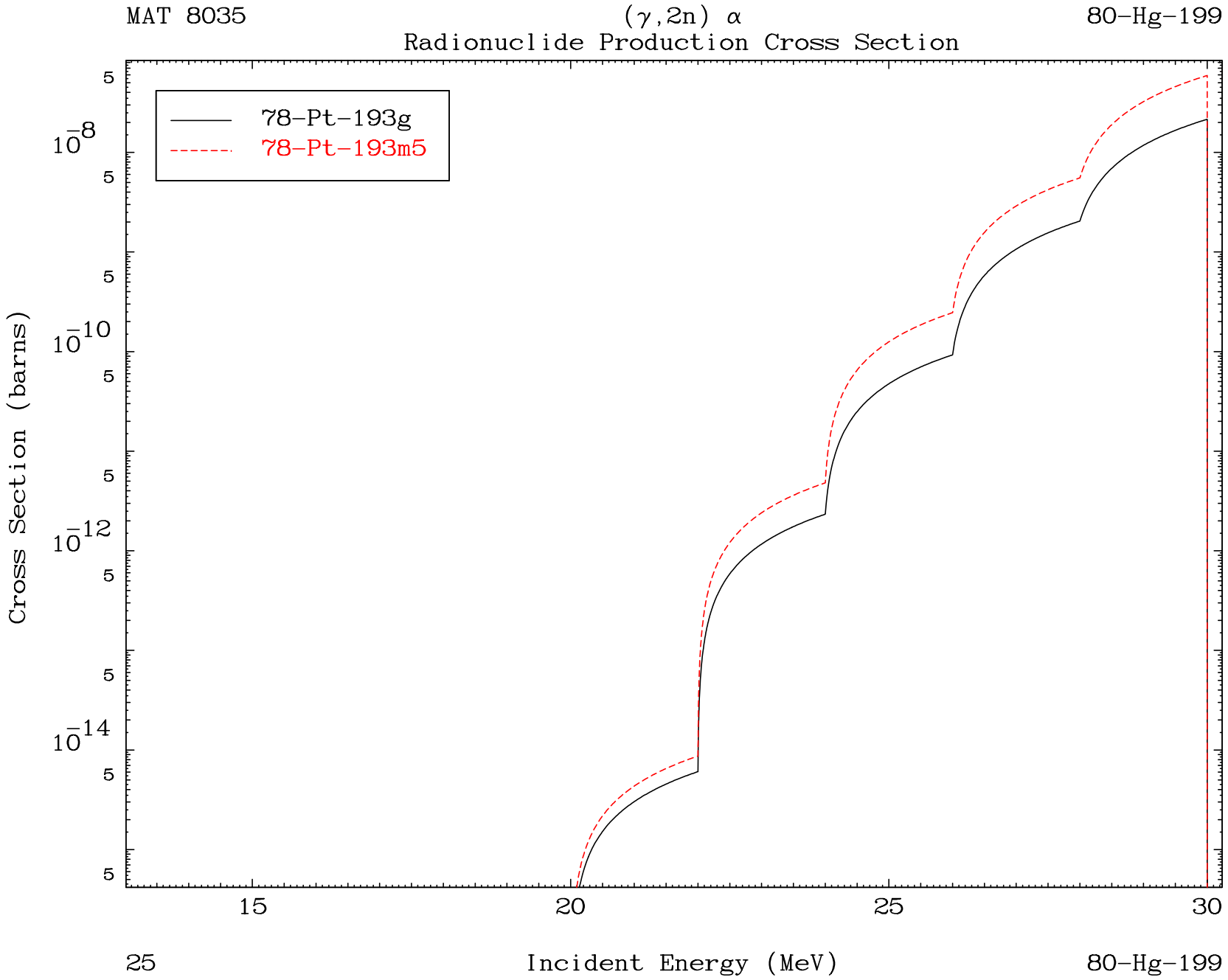

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
5
60
80
100
120
140
160
180
200
20
Incident Energy (MeV)
80-Hg-199
80-Hg-185g
80-Hg-185m1
80-Hg-186g
80-Hg-187g
80-Hg-187m1
80-Hg-188g
80-Hg-189g
80-Hg-189m1
80-Hg-190g
80-Hg-191g
80-Hg-191m1

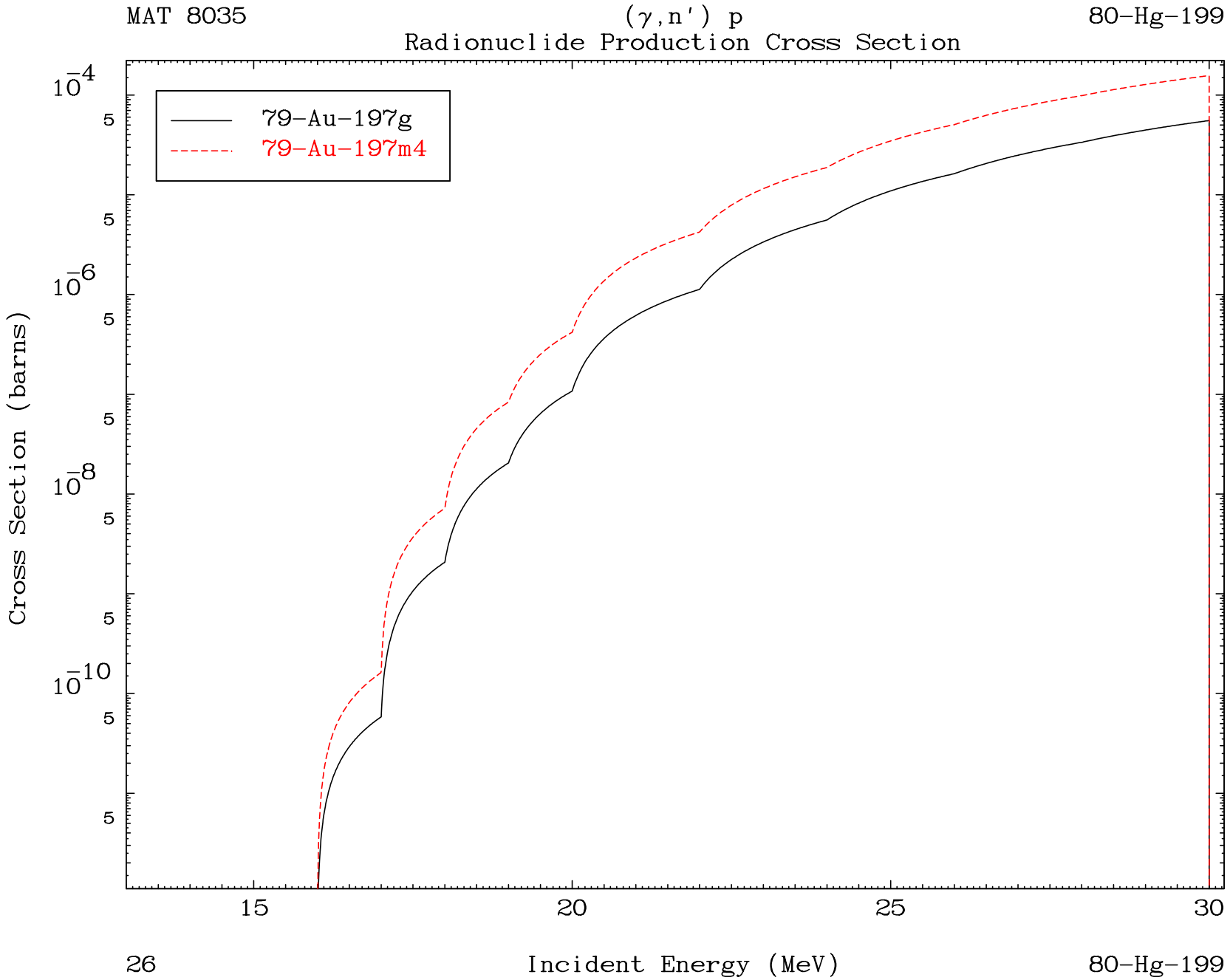

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
80-Hg-192g
80-Hg-193g
80-Hg-193m1
80-Hg-194g
80-Hg-195g
80-Hg-195m1
80-Hg-196g
80-Hg-197g
80-Hg-197m1
80-Hg-198g
80-Hg-199g
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
80-Hg-199

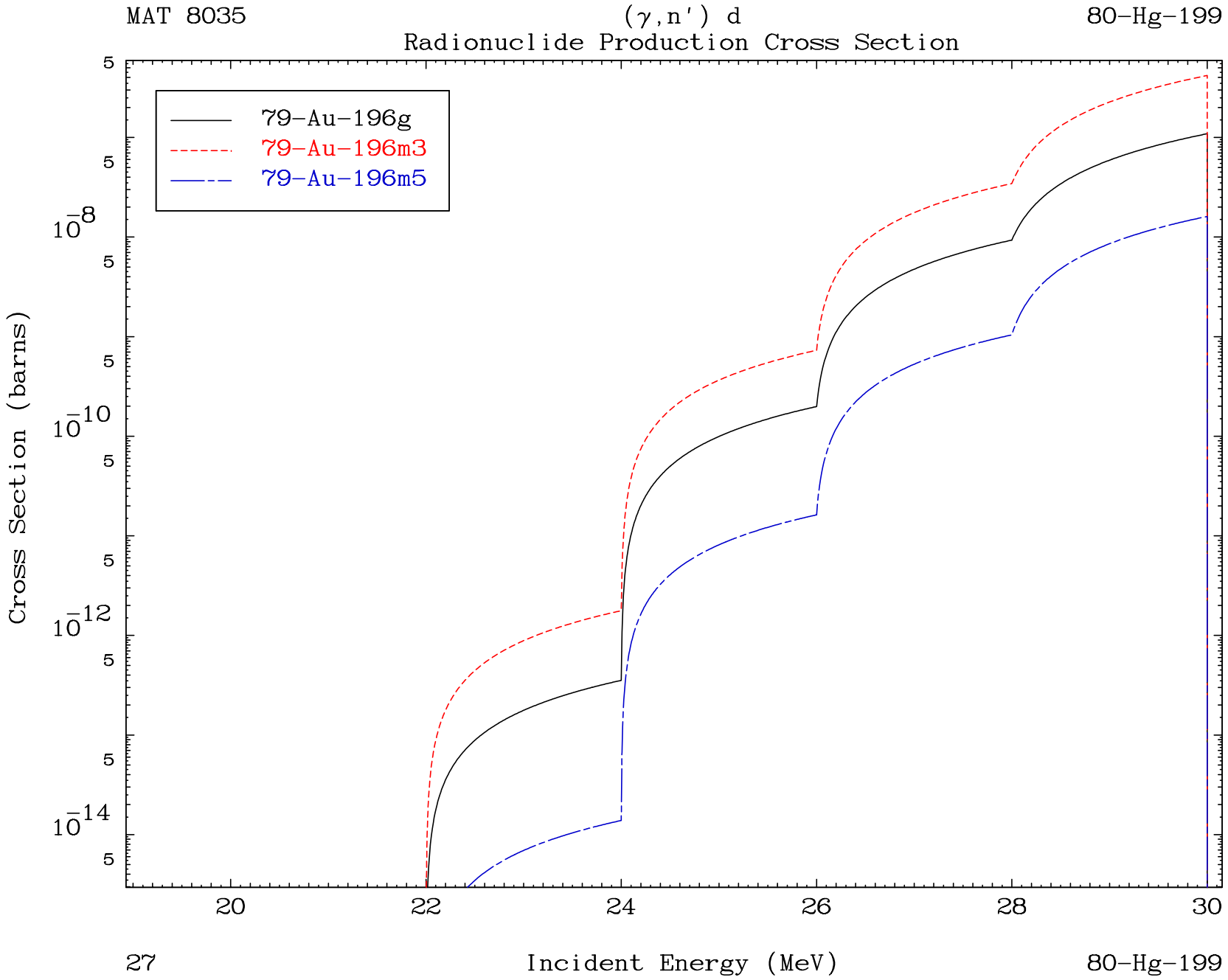

MAT 8035
(γ,remainder)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-3
10-4
10-5
10-6
10-7
5
80-Hg-199m1
Photon
3
4
5
6
7
8
9
10^2
2
22
Incident Energy (MeV)
80-Hg-199

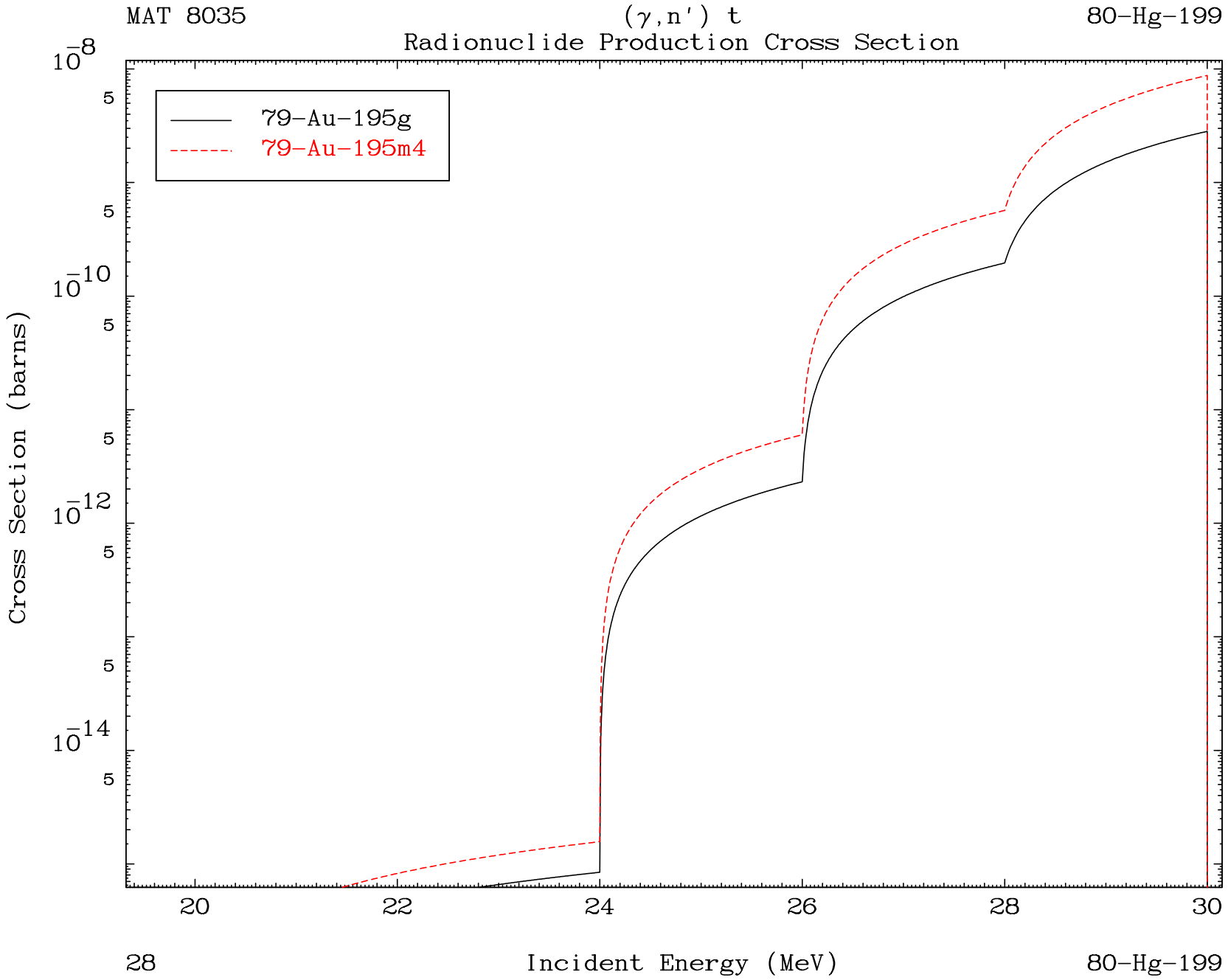

MAT 8035
(γ,2n)
80-Hg-199
Radionuclide Production Cross Section
80-Hg-197g
80-Hg-197m4
Cross Section (barns)
10-2
10-3
15
20
25
30
23
Incident Energy (MeV)
80-Hg-199

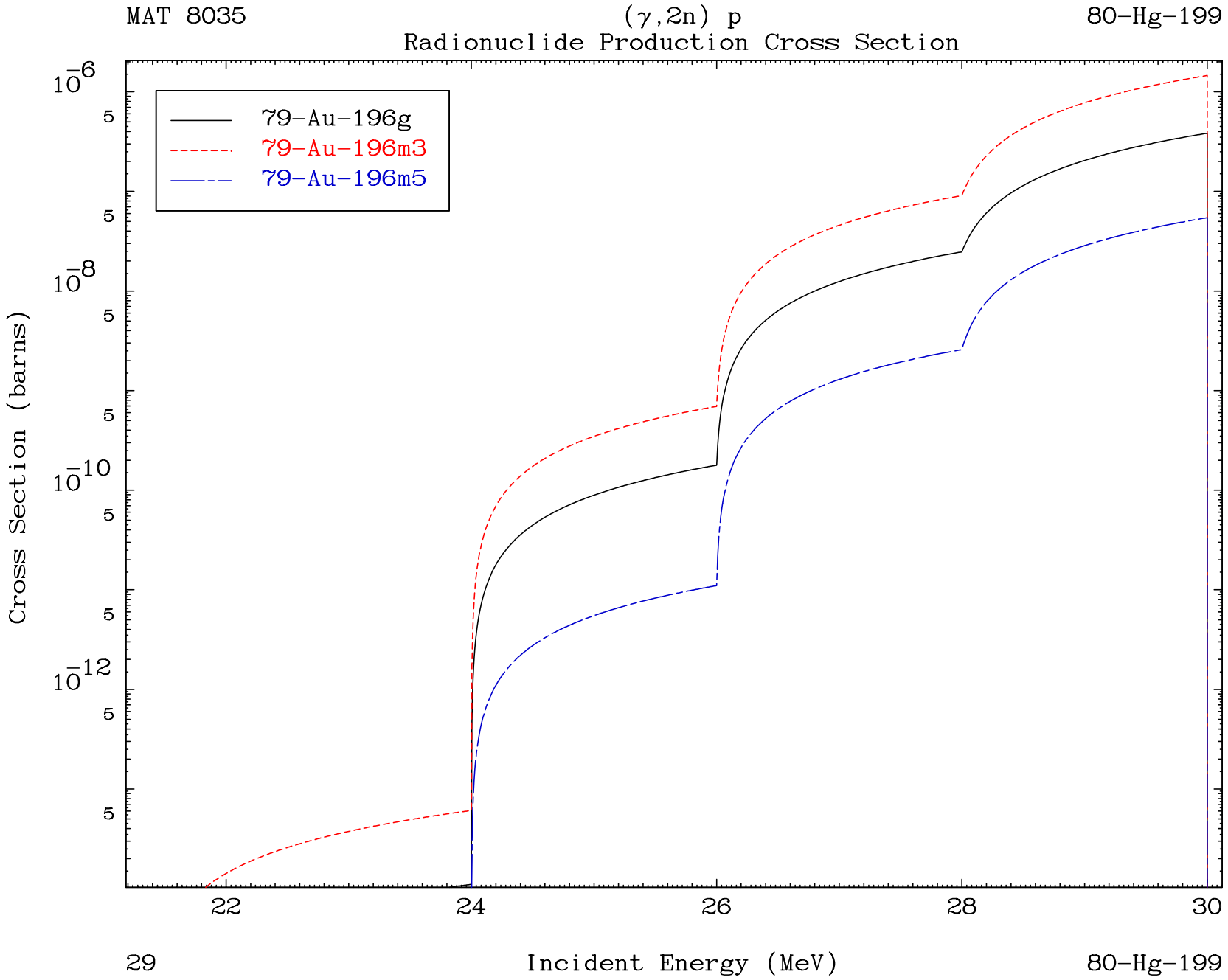

MAT 8035
Photon Fission
80-Hg-199
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
24
80-Hg-199

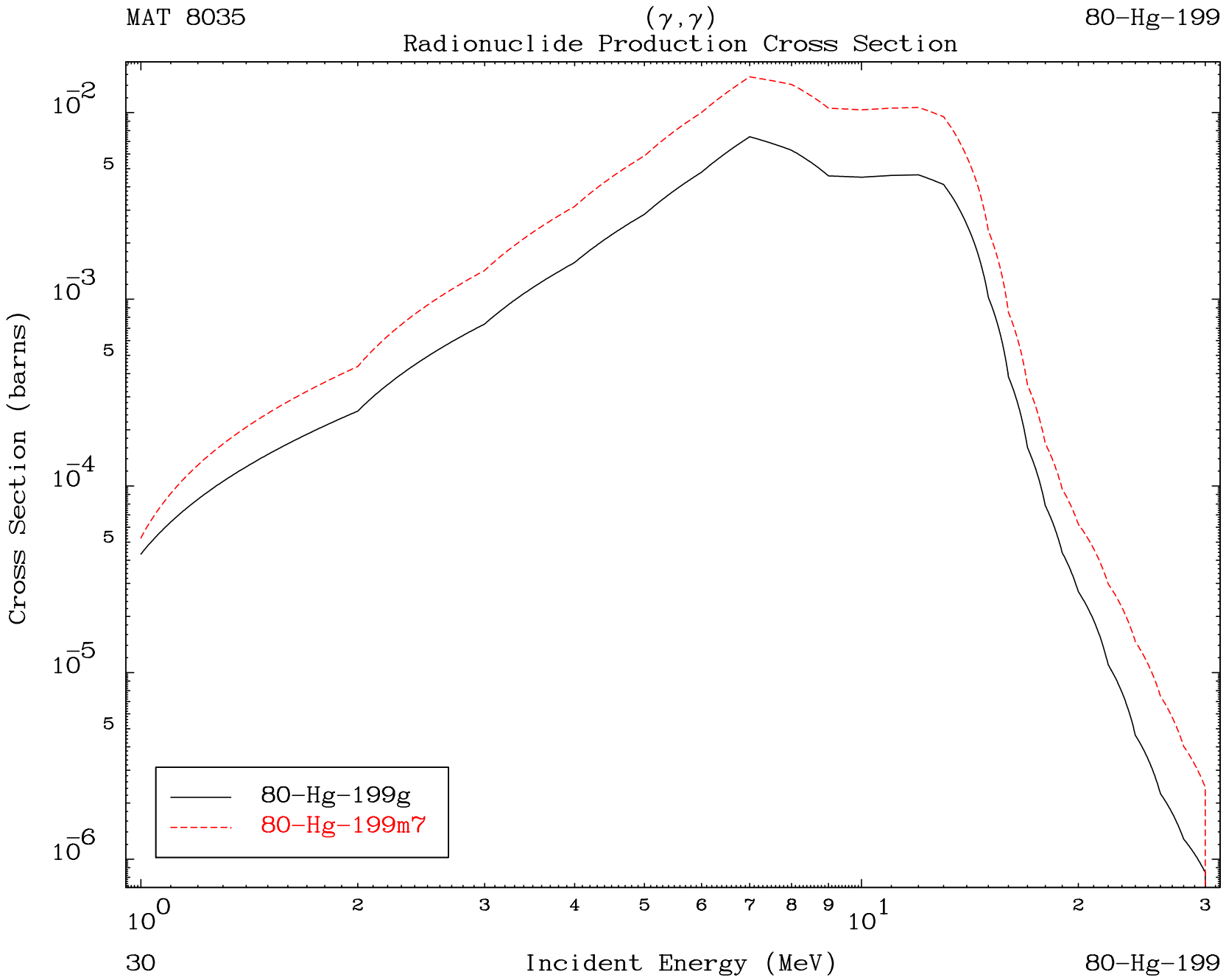

MAT 8035
(γ,2n) α
80-Hg-199
Radionuclide Production Cross Section
78-Pt-193g
78-Pt-193m5
Cross Section (barns)
10-8
10-10
10-12
10-14
5
15
20
25
30
25
Incident Energy (MeV)
80-Hg-199

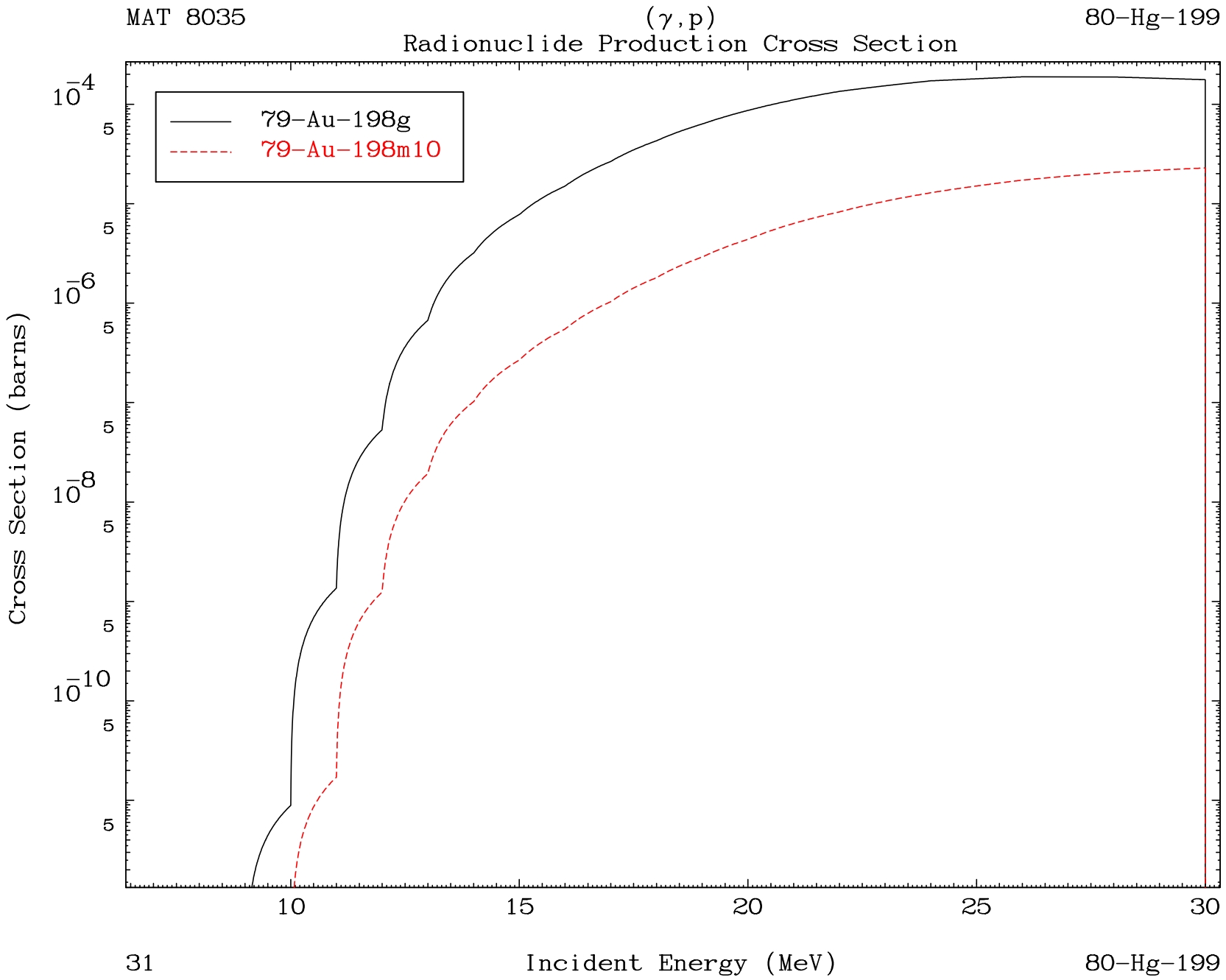

MAT 8035
(γ,n') p
80-Hg-199
Radionuclide Production Cross Section
79-Au-197g
79-Au-197m4
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
15
20
25
30
26
Incident Energy (MeV)
80-Hg-199

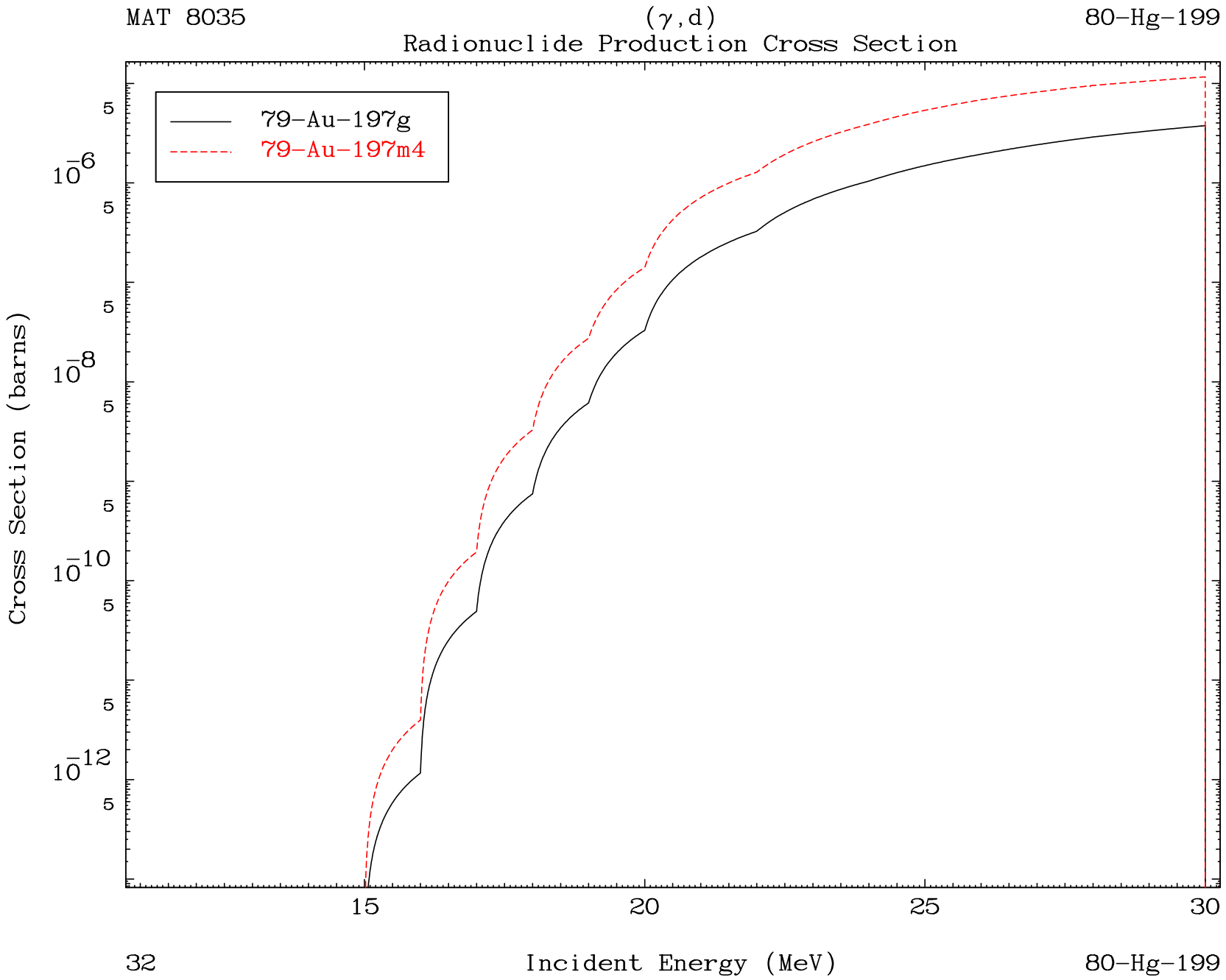

MAT 8035
(γ,n') d
80-Hg-199
Radionuclide Production Cross Section
79-Au-196g
79-Au-196m3
79-Au-196m5
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
20
22
24
26
28
30
27
Incident Energy (MeV)
80-Hg-199

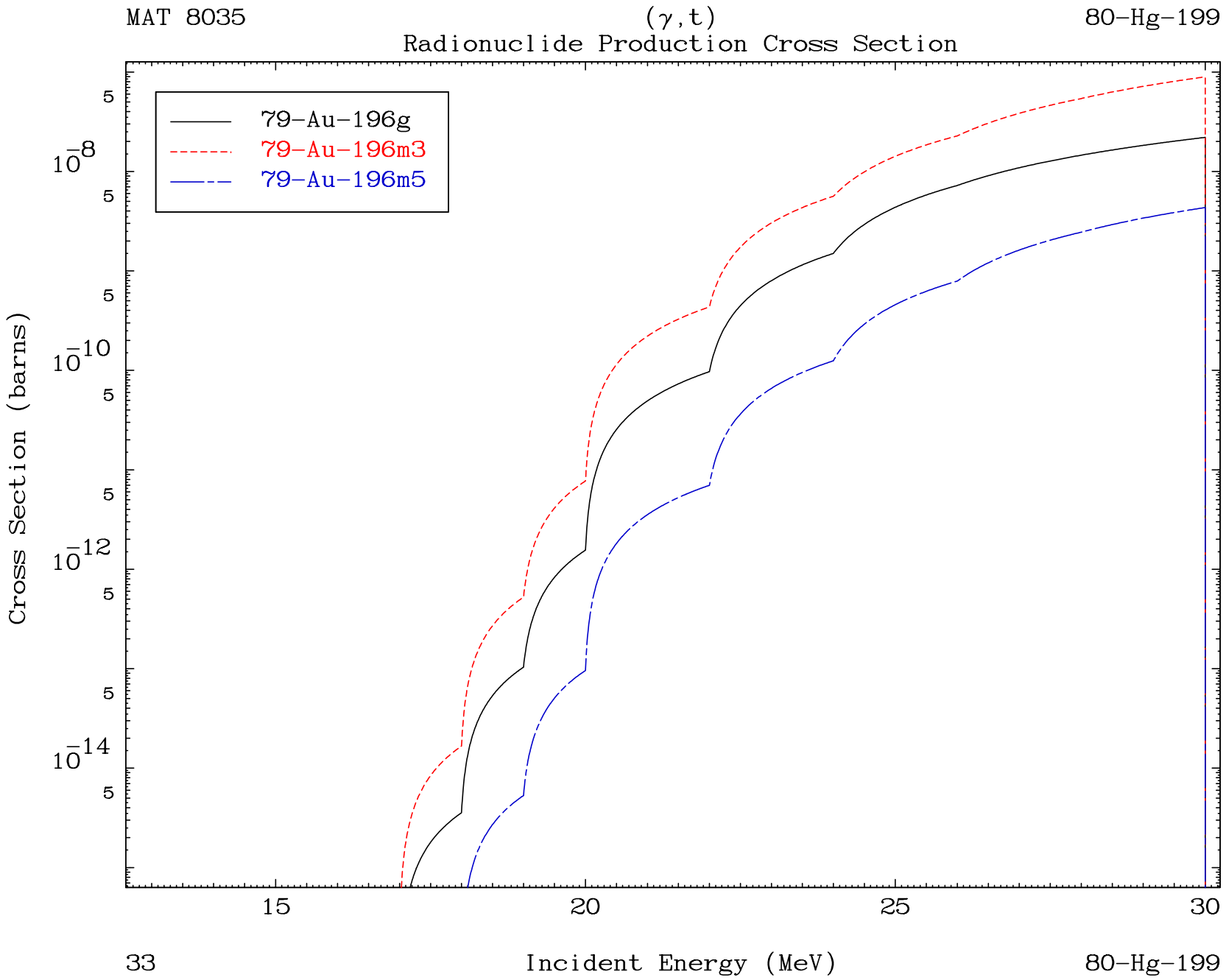

MAT 8035
(γ,n') t
80-Hg-199
Radionuclide Production Cross Section
79-Au-195g
79-Au-195m4
Cross Section (barns)
10-8
5
10-10
5
10-12
5
10-14
5
20
22
24
26
28
30
28
Incident Energy (MeV)
80-Hg-199

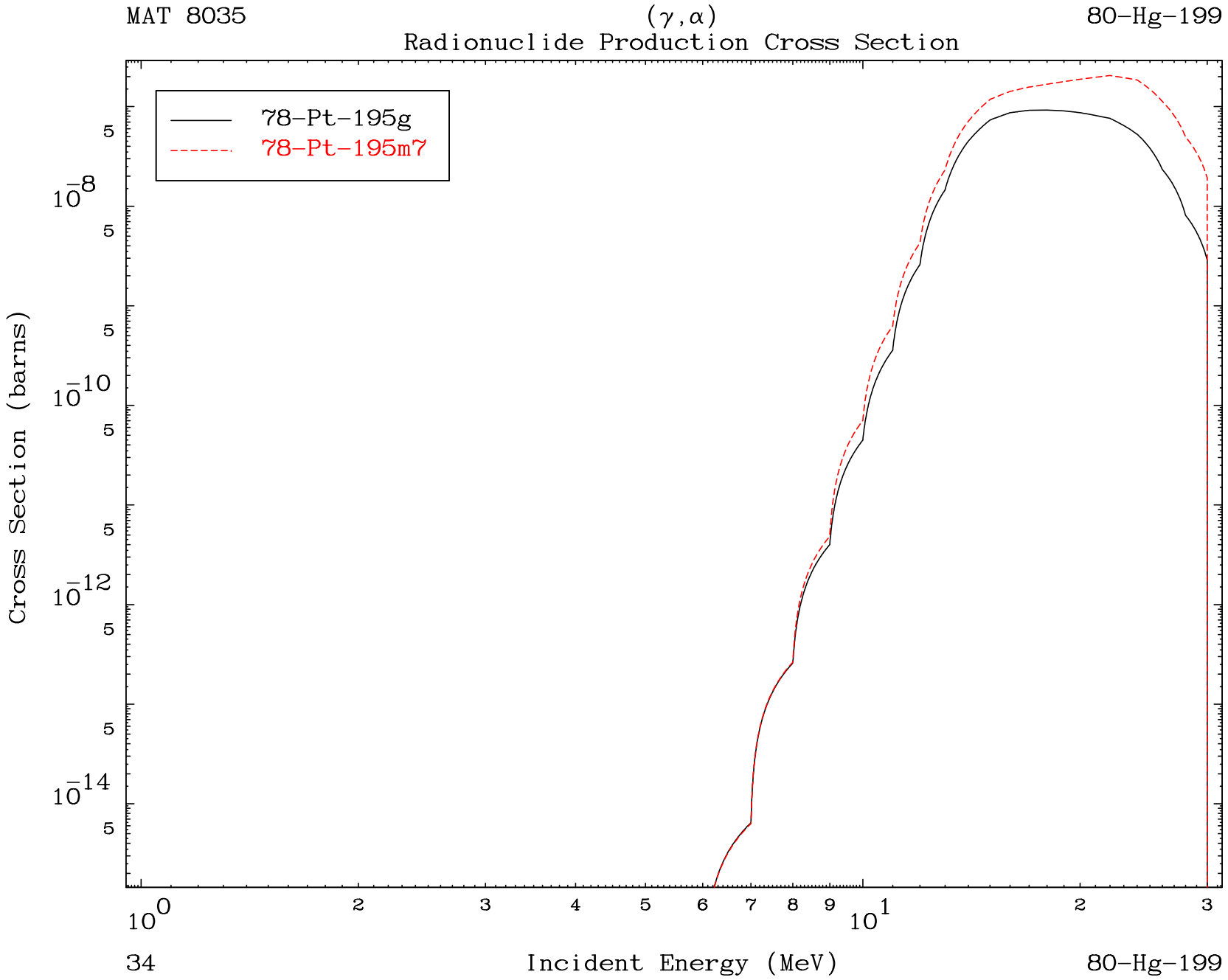

MAT 8035
(γ,2n) p
80-Hg-199
Radionuclide Production Cross Section
79-Au-196g
79-Au-196m3
79-Au-196m5
Cross Section (barns)
10-6
10-8
10-10
10-12
5
22
24
26
28
30
29
Incident Energy (MeV)
80-Hg-199


MAT 8035
(γ,γ)
80-Hg-199
Radionuclide Production Cross Section
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
100
2
3
4
5
6
7
8
9
101
2
3
80-Hg-199g
80-Hg-199m7
30
Incident Energy (MeV)
80-Hg-199


MAT 8035
(γ,p)
80-Hg-199
Radionuclide Production Cross Section
79-Au-198g
79-Au-198m10
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10
15
20
25
30
31
Incident Energy (MeV)
80-Hg-199


MAT 8035
(γ,d)
80-Hg-199
Radionuclide Production Cross Section
79-Au-197g
79-Au-197m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
15
20
25
30
32
Incident Energy (MeV)
80-Hg-199


MAT 8035
(γ,t)
80-Hg-199
Radionuclide Production Cross Section
79-Au-196g
79-Au-196m3
79-Au-196m5
Cross Section (barns)
10-8
10-10
10-12
10-14
5
15
20
25
30
33
Incident Energy (MeV)
80-Hg-199


MAT 8035
(γ,α)
80-Hg-199
Radionuclide Production Cross Section
78-Pt-195g
78-Pt-195m7
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
10^0
2
3
4
5
6
7
8
9
10^1
2
3
34
Incident Energy (MeV)
80-Hg-199