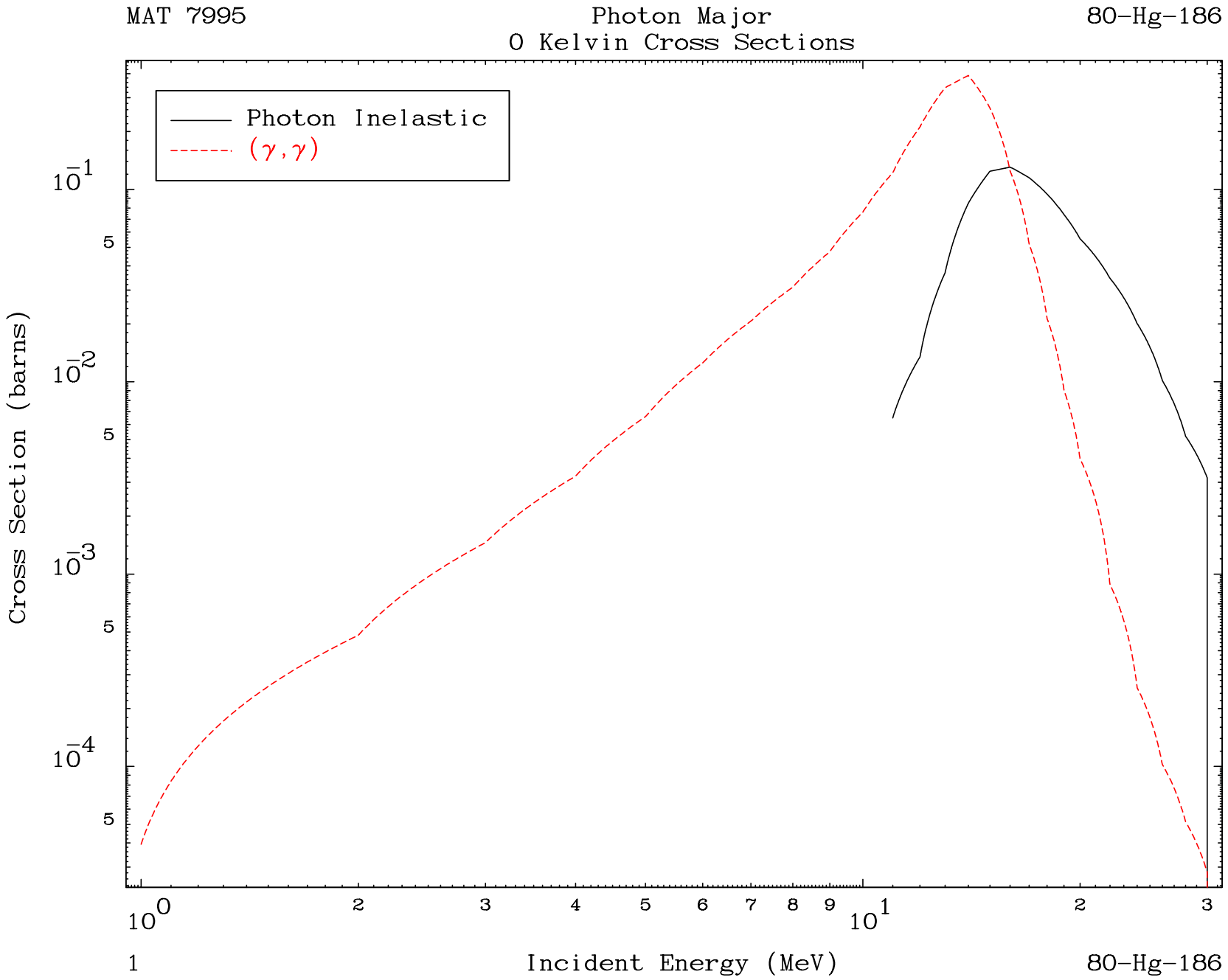
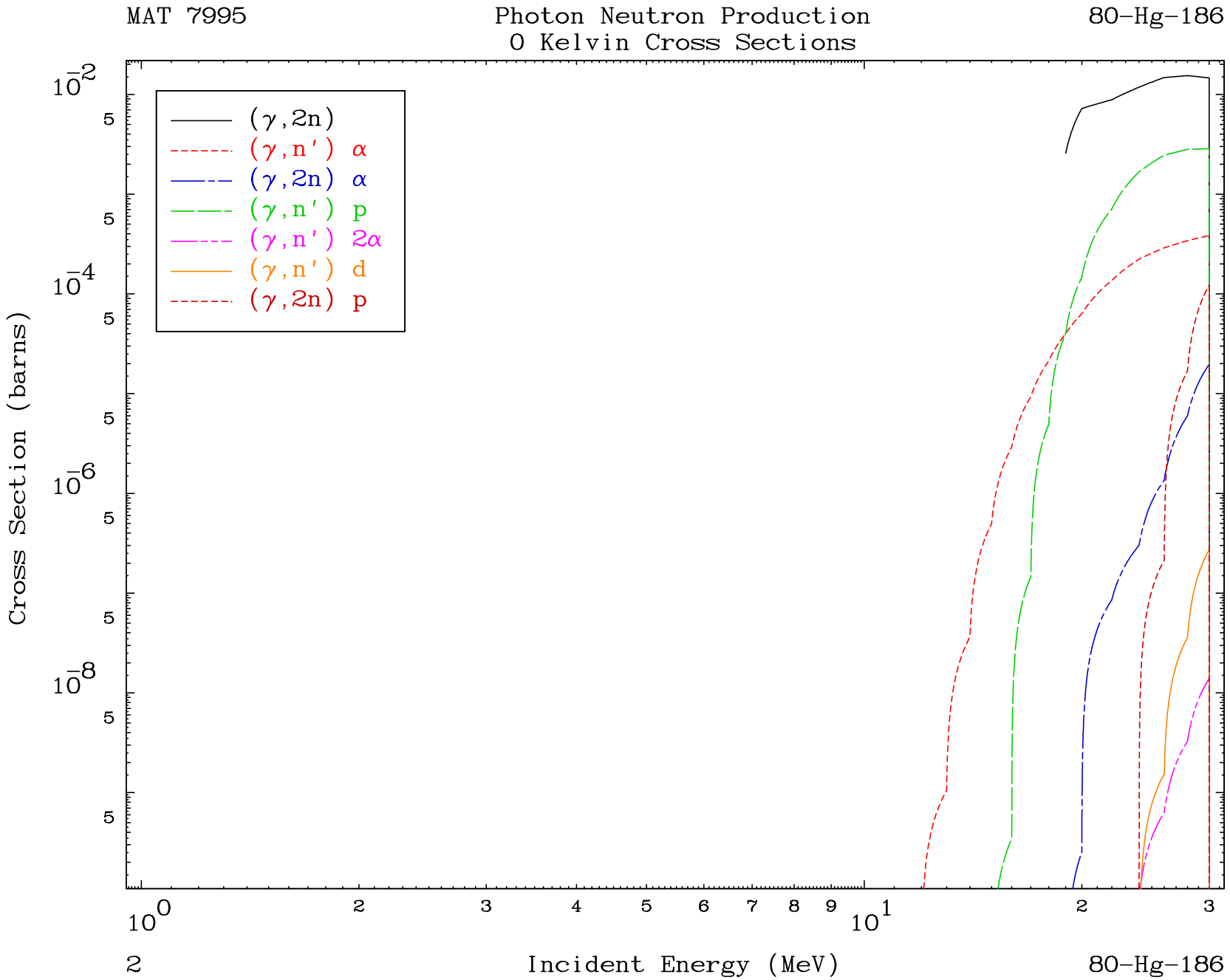
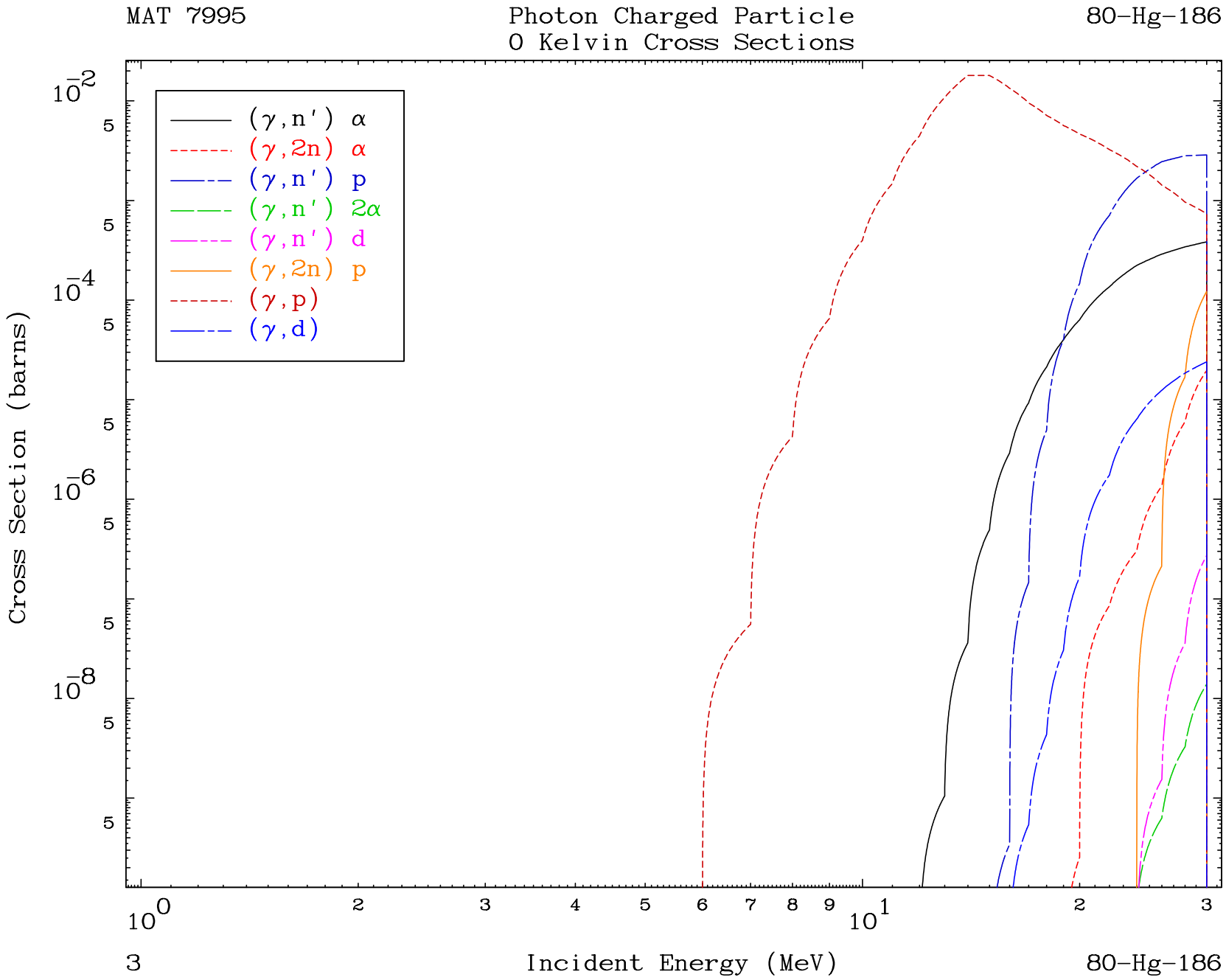
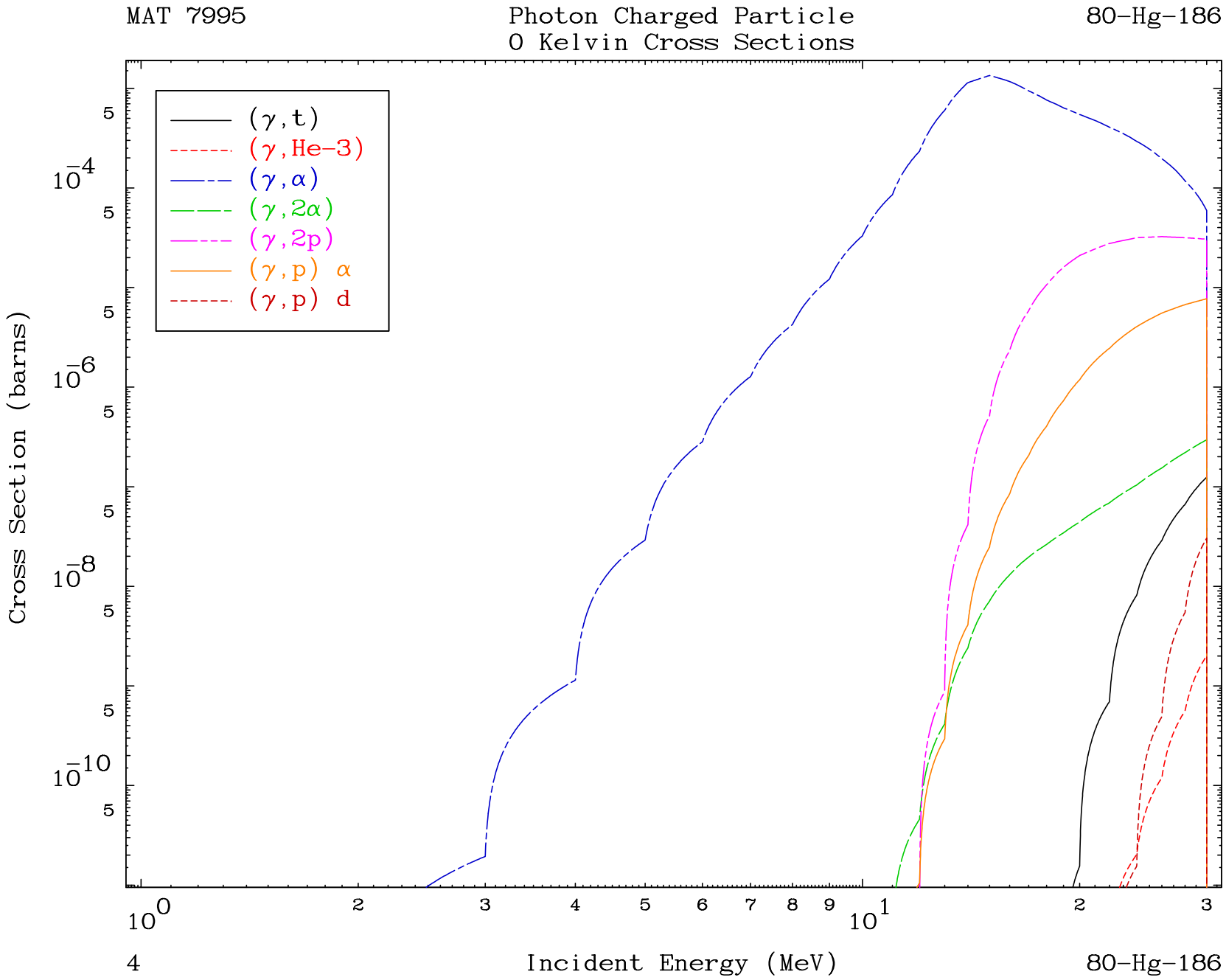
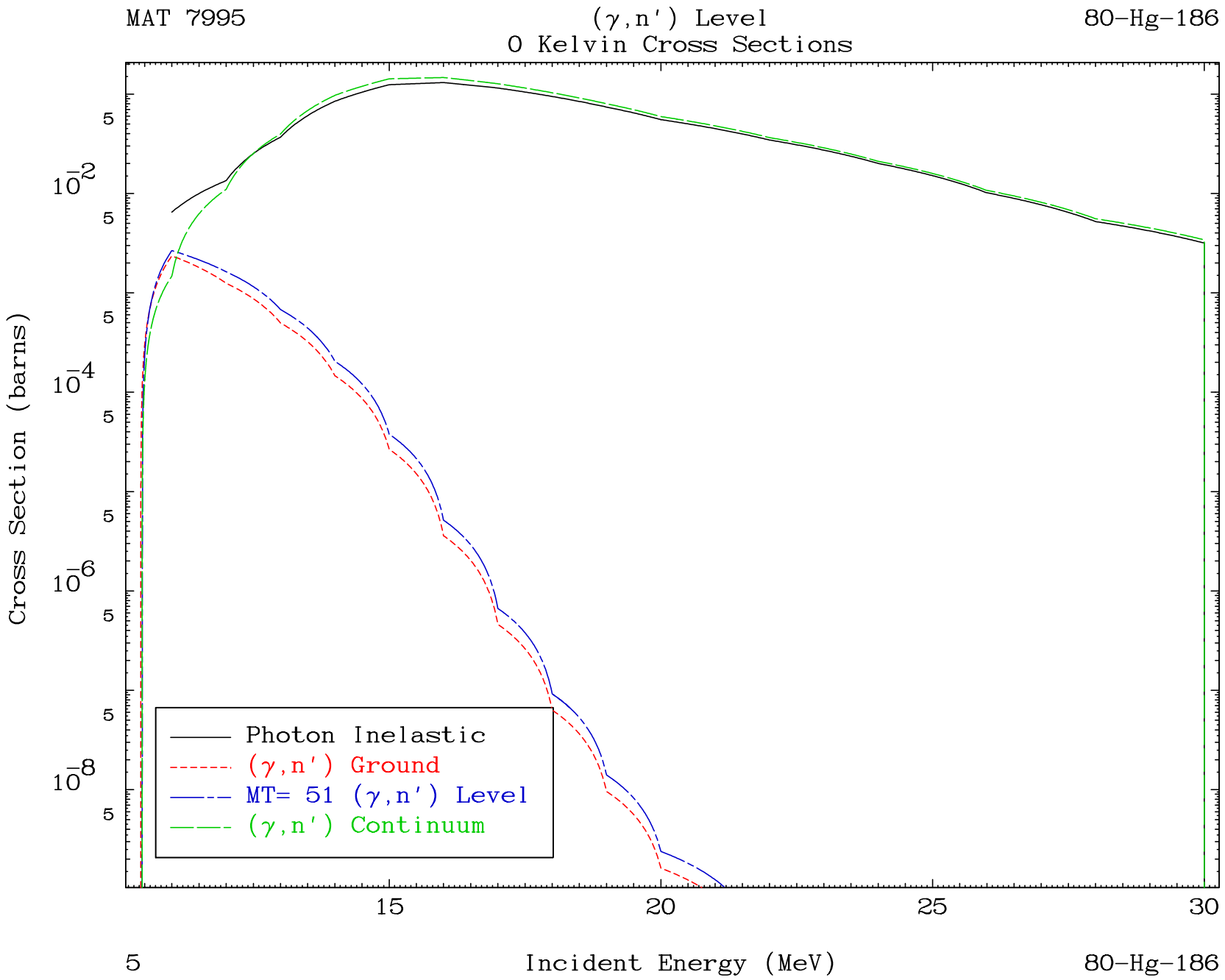
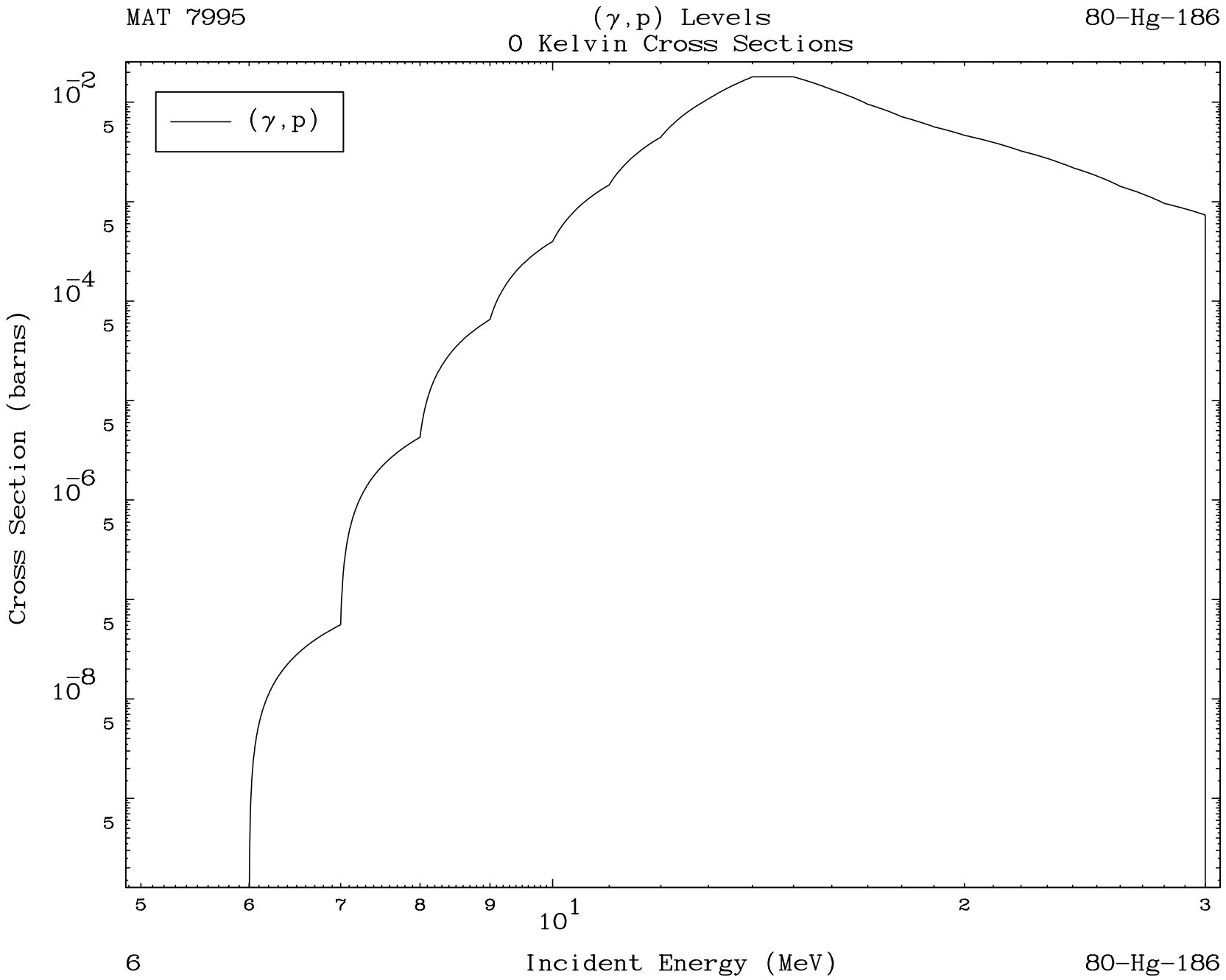

MAT 7995
Photon Major
80-Hg-186
0 Kelvin Cross Sections
Photon Inelastic
(γ,γ)
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
10 0
2
3
4
5
6
7
8
9
10 1
2
3
1
Incident Energy (MeV)
80-Hg-186

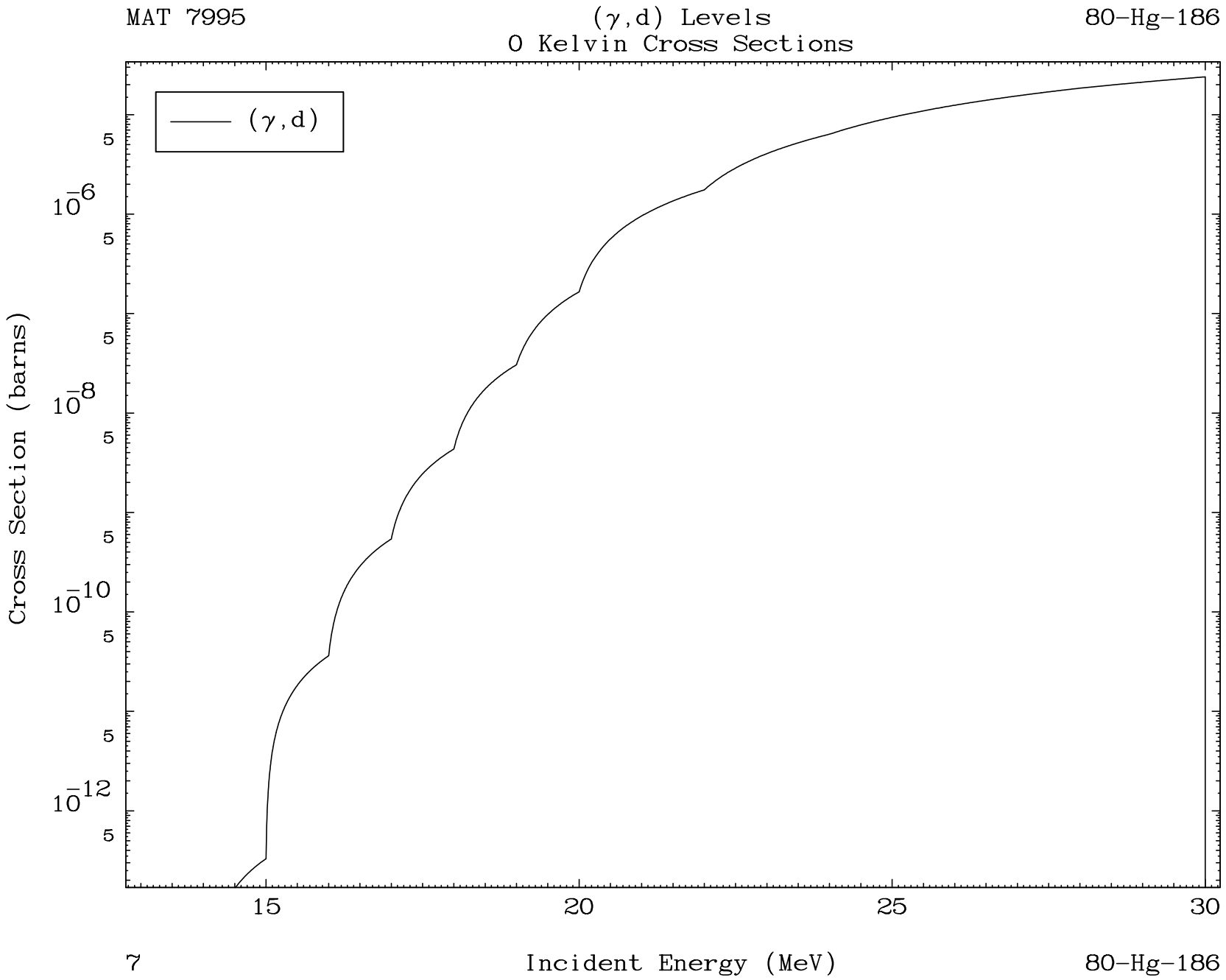

MAT 7995
Photon Neutron Production
0 Kelvin Cross Sections
80-Hg-186
(γ,2n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p
Cross Section (barns)
Incident Energy (MeV)
80-Hg-186

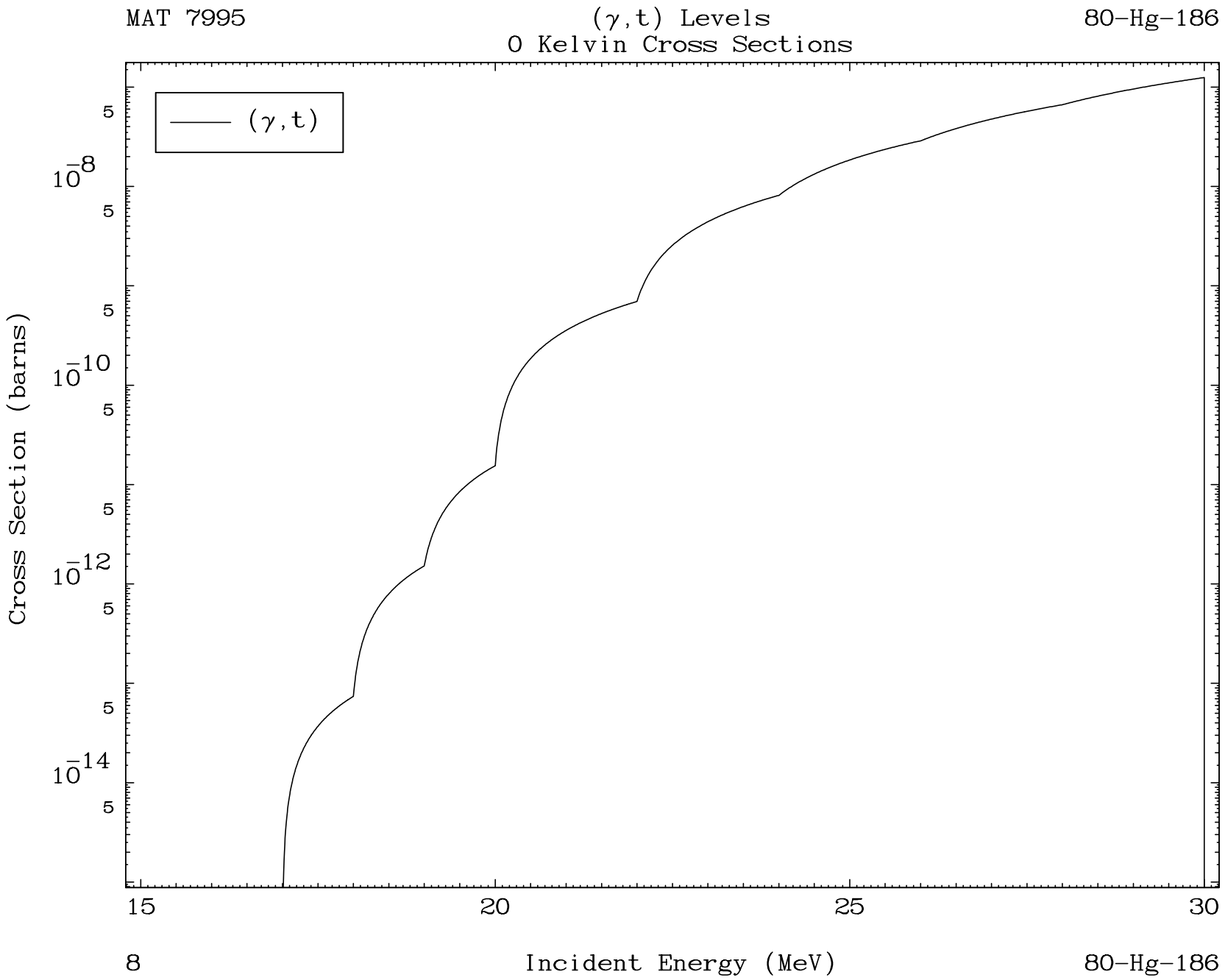

MAT 7995
Photon Charged Particle
0 Kelvin Cross Sections
80-Hg-186
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') 2α
(γ,n') d
(γ,2n) p
(γ,p)
(γ,d)
Cross Section (barns)
Incident Energy (MeV)
3
80-Hg-186

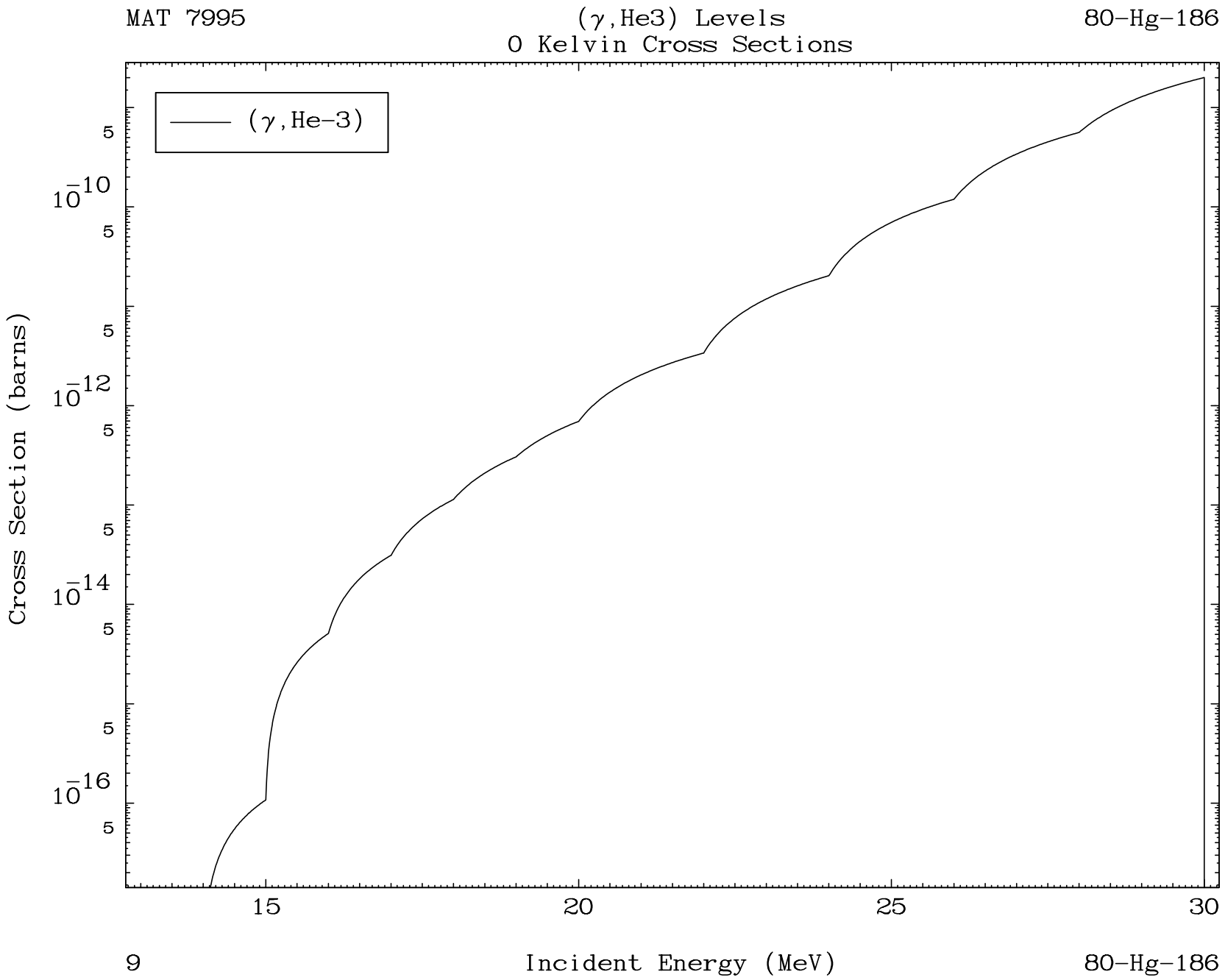

MAT 7995
Photon Charged Particle
0 Kelvin Cross Sections
80-Hg-186
(γ,t)
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
Incident Energy (MeV)
80-Hg-186
4

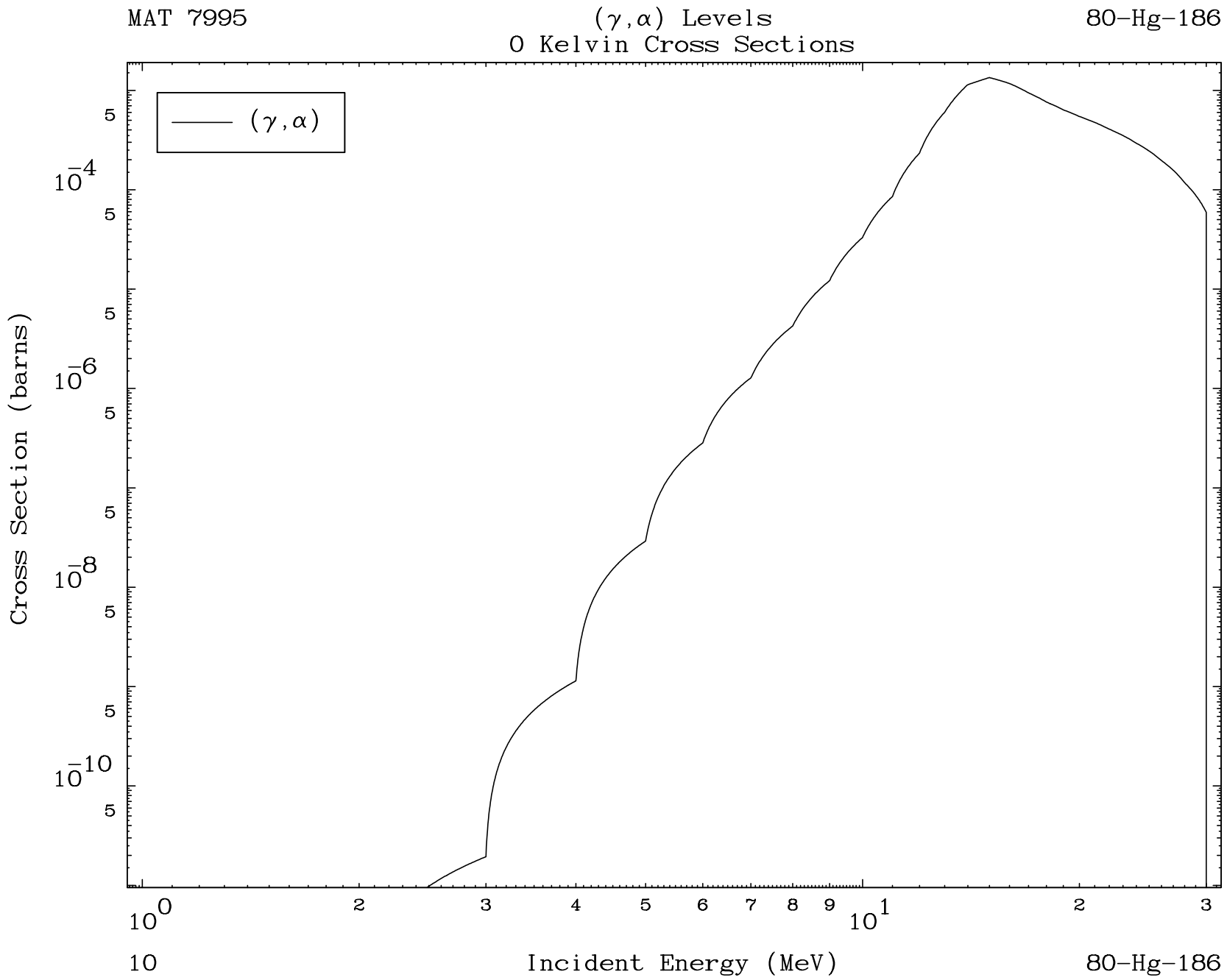

MAT 7995
(γ,n') Level
80-Hg-186
0 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
5
15
20
25
30
Incident Energy (MeV)
80-Hg-186
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum

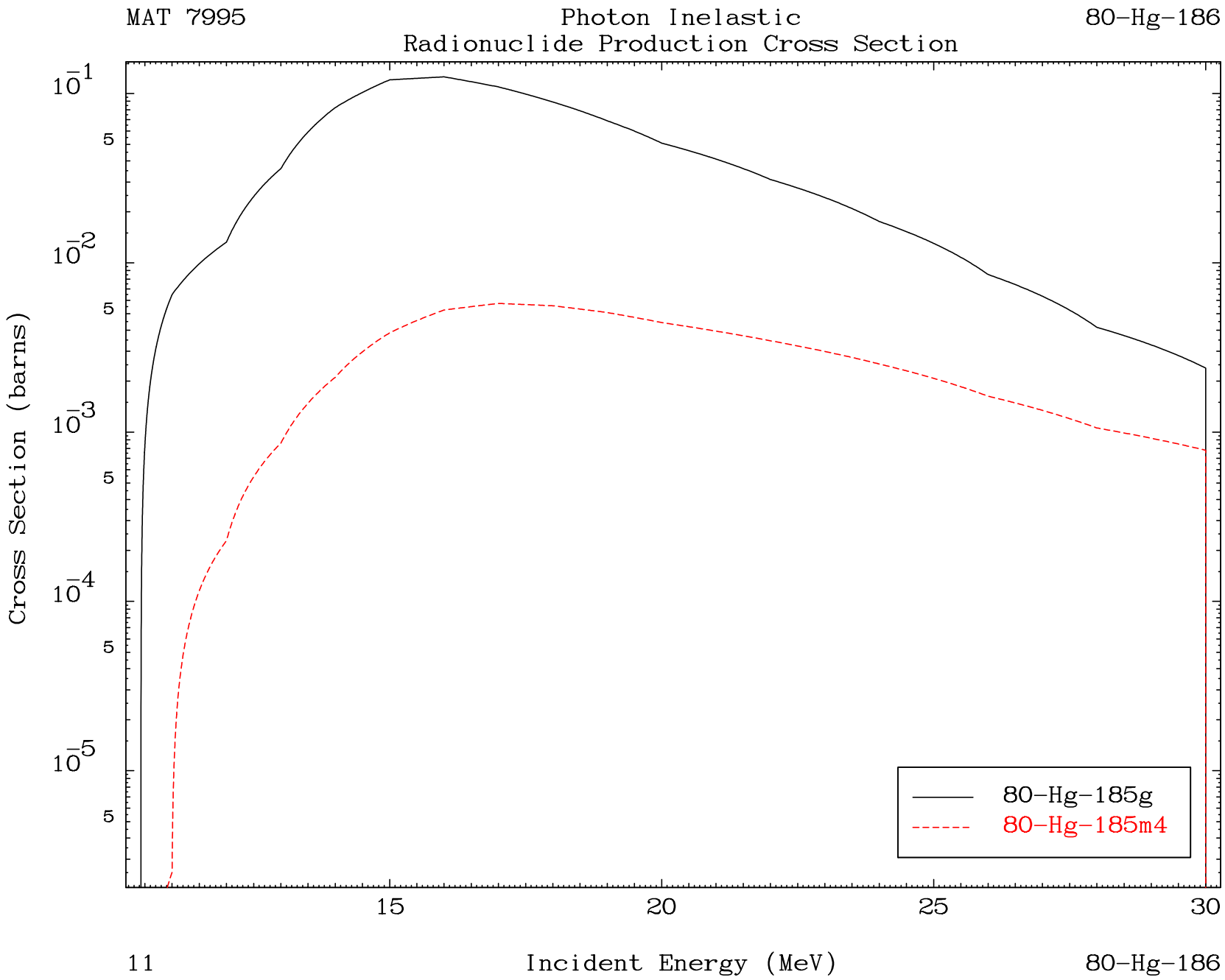

MAT 7995
(γ,p) Levels
80-Hg-186
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
5
5
5
5
5
5
5
5
6
7
8
9
10 1
2
3
Incident Energy (MeV)
6
80-Hg-186

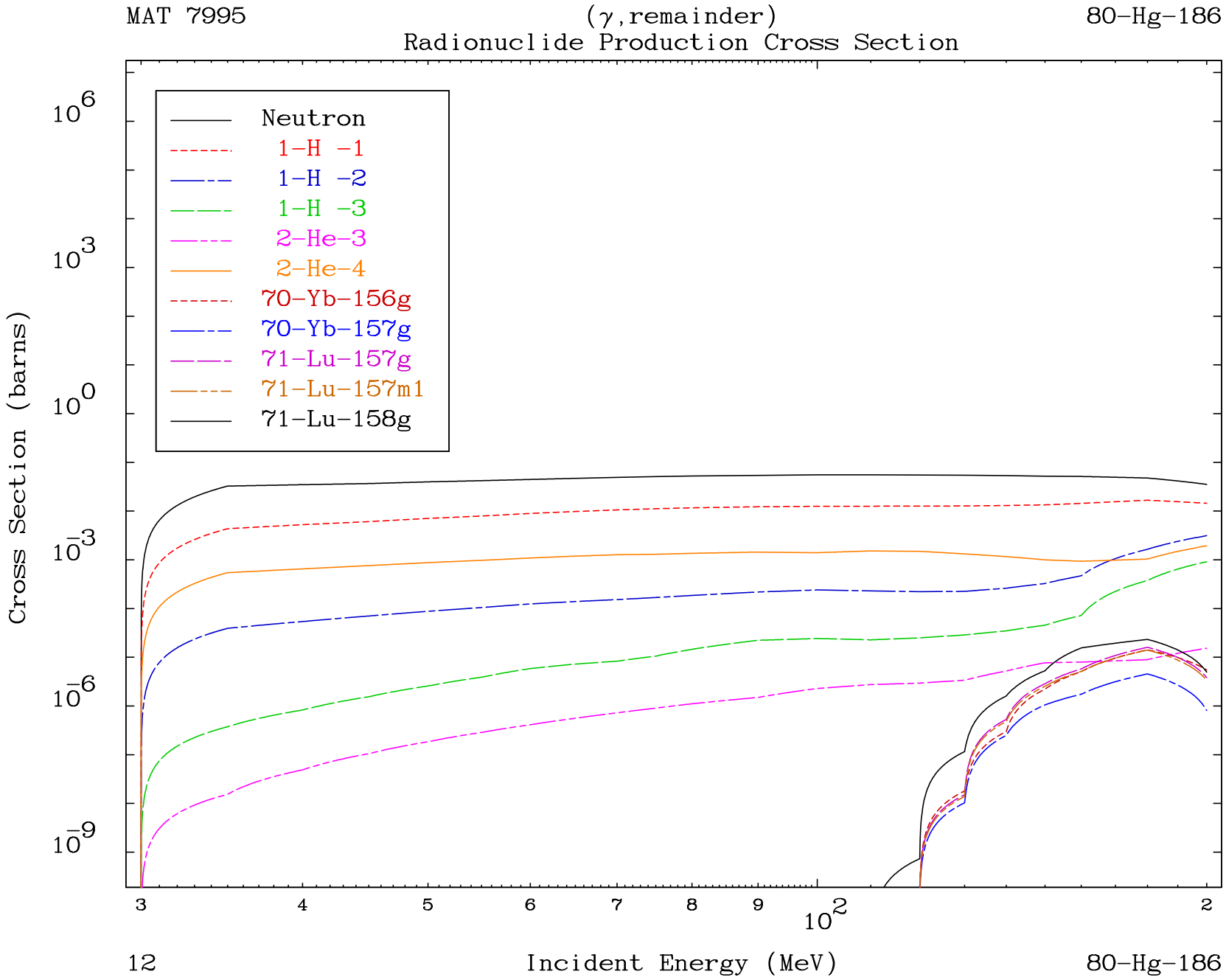

MAT 7995
(γ,d) Levels
80-Hg-186
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
15
20
25
30
Incident Energy (MeV)
7
80-Hg-186

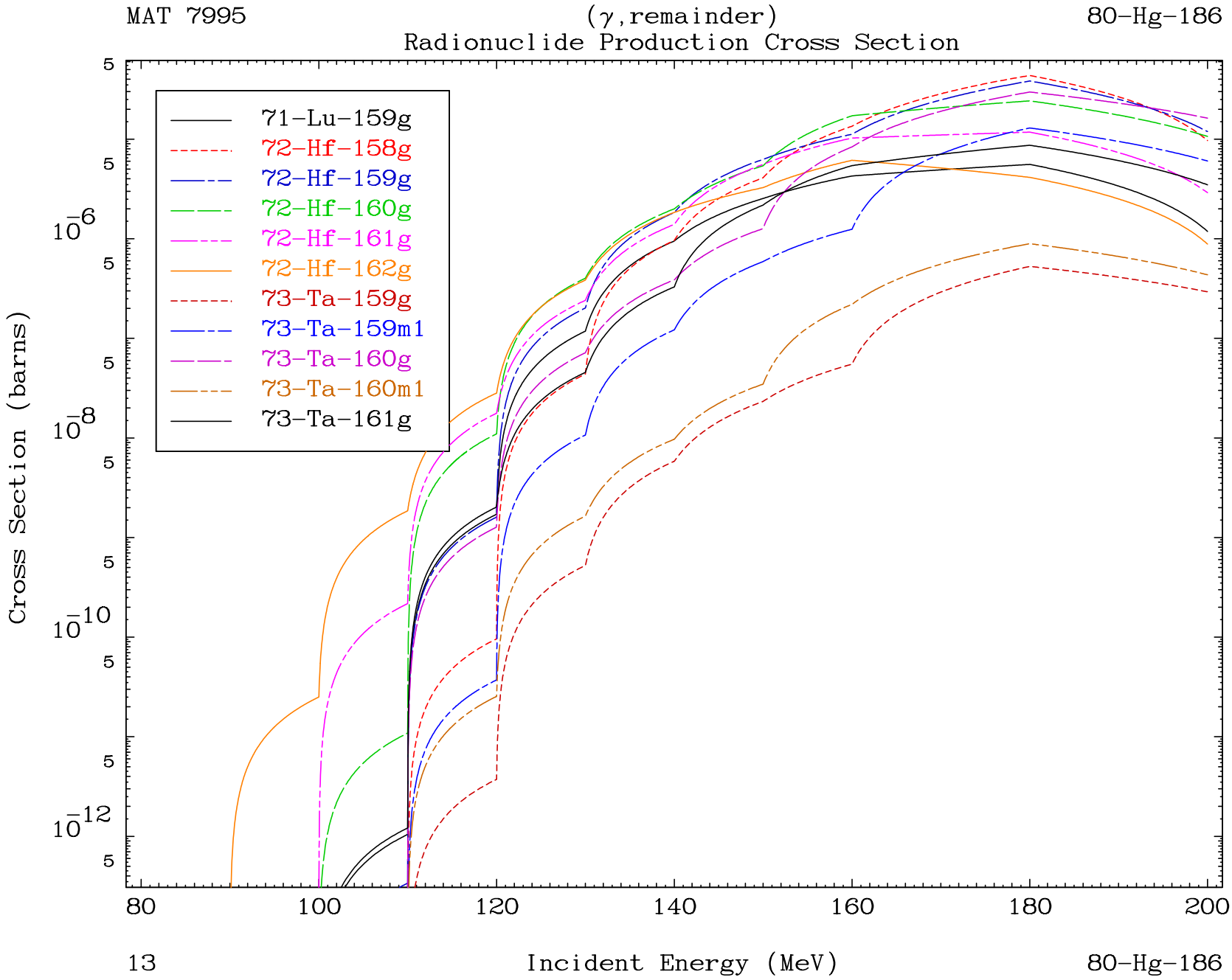

MAT 7995
(γ,t) Levels
80-Hg-186
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
15
20
25
30
8
Incident Energy (MeV)
80-Hg-186

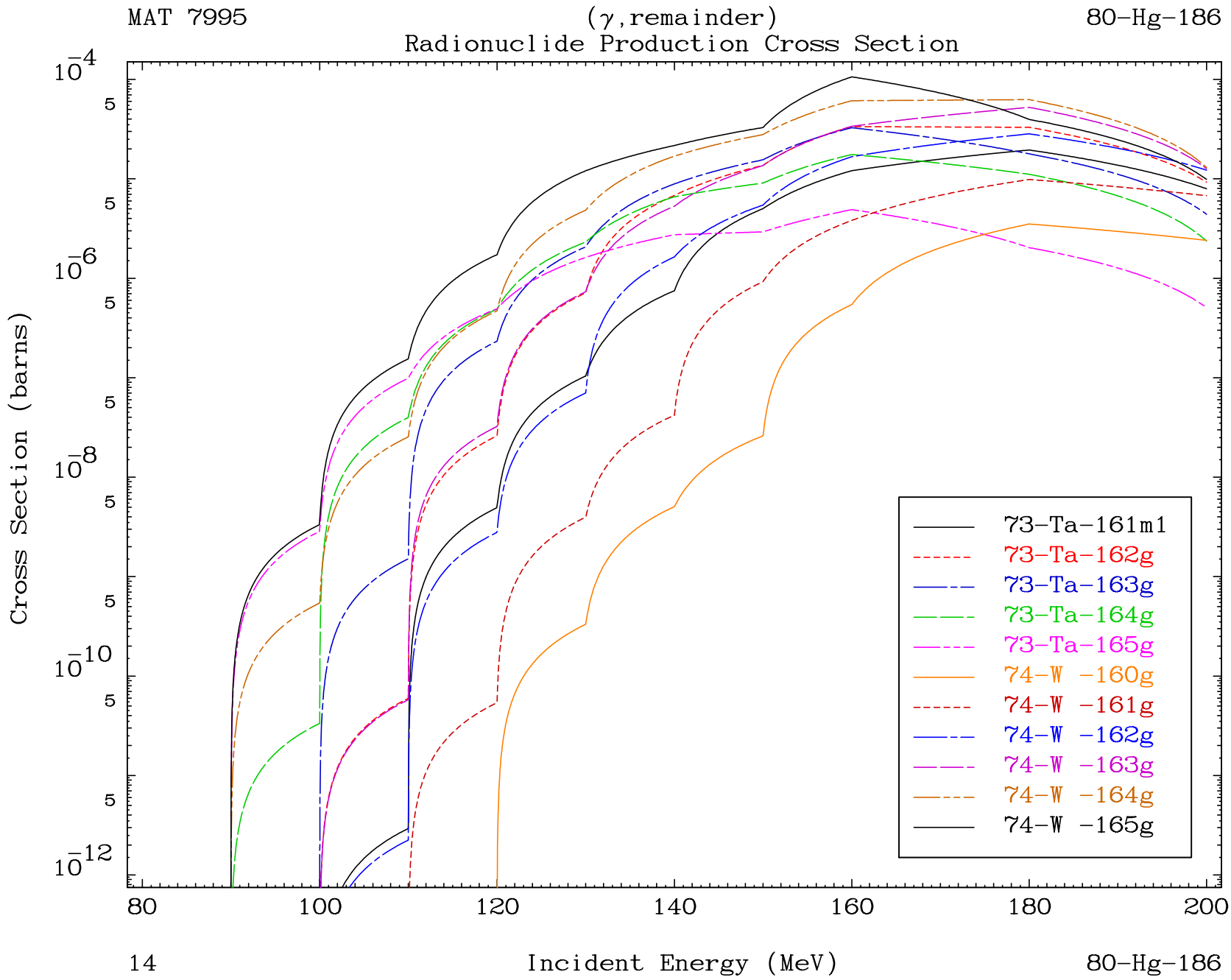

MAT 7995
(γ,He3) Levels
80-Hg-186
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10-10
10-12
10-14
10-16
5
15
20
25
30
9
Incident Energy (MeV)
80-Hg-186

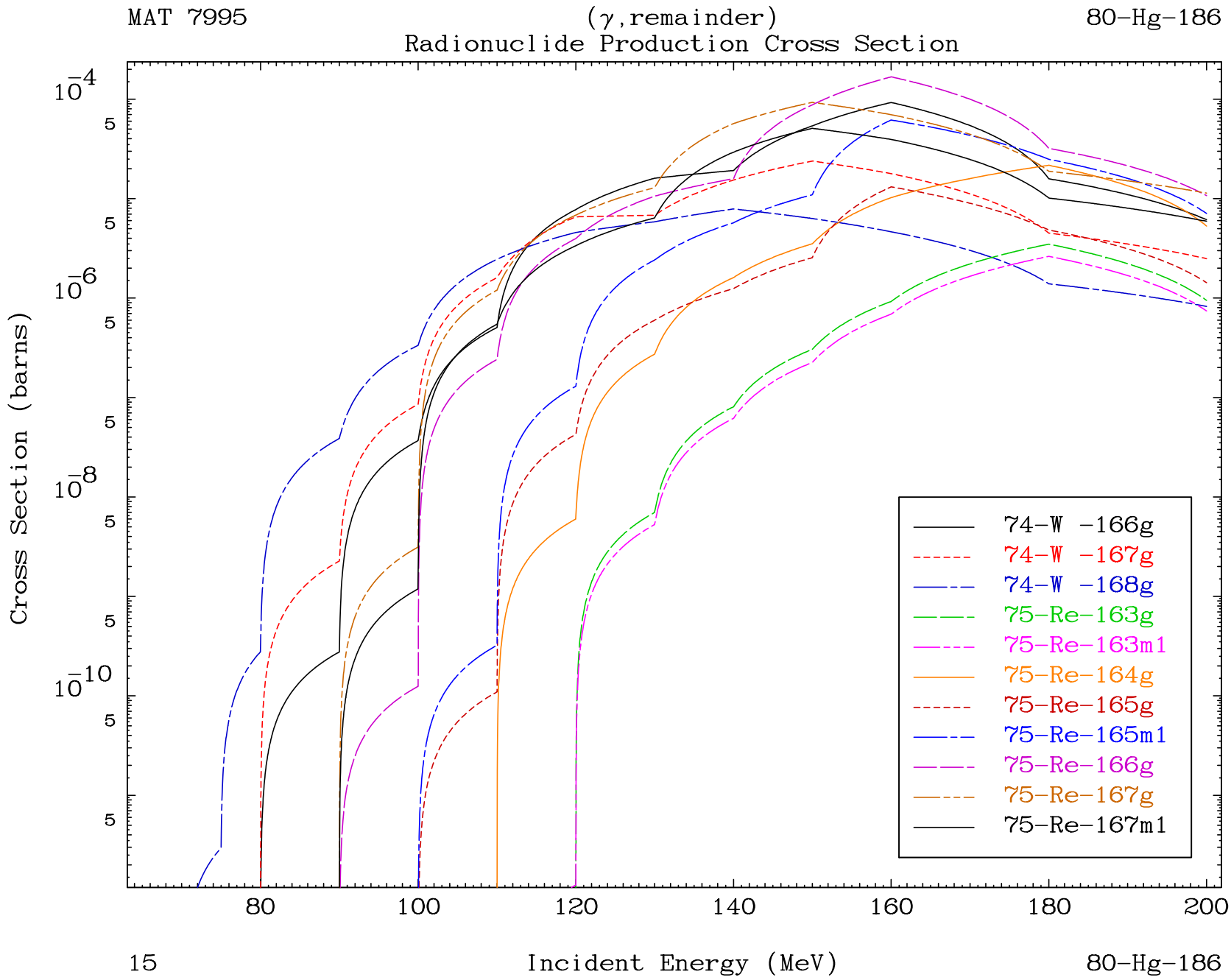

MAT 7995
(γ,α) Levels
80-Hg-186
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
100
2
3
4
5
6
7
8
9
101
2
3
10
Incident Energy (MeV)
80-Hg-186

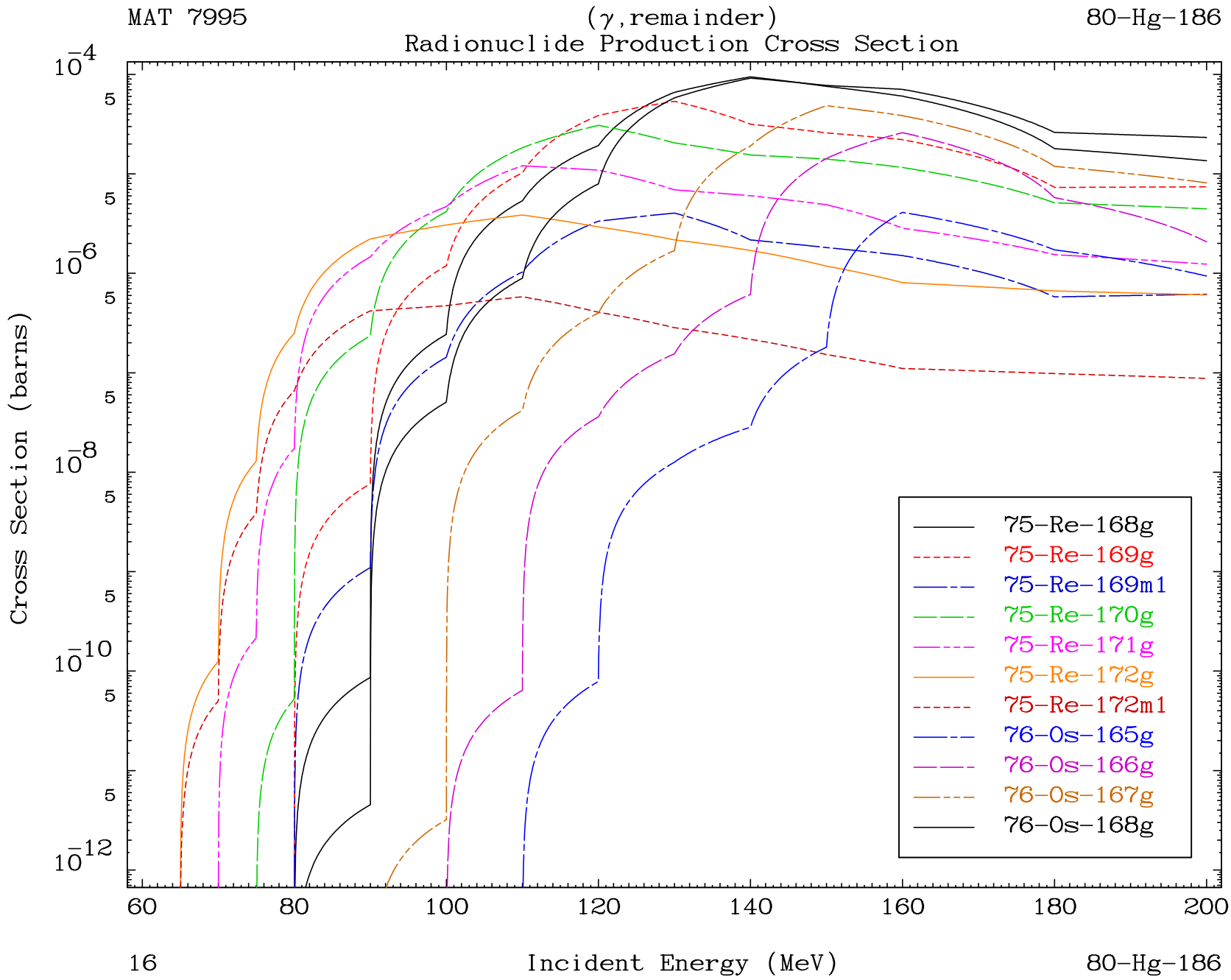

MAT 7995
Photon Inelastic
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
10-5
5
15
20
25
30
11
Incident Energy (MeV)
80-Hg-186
80-Hg-185g
80-Hg-185m4

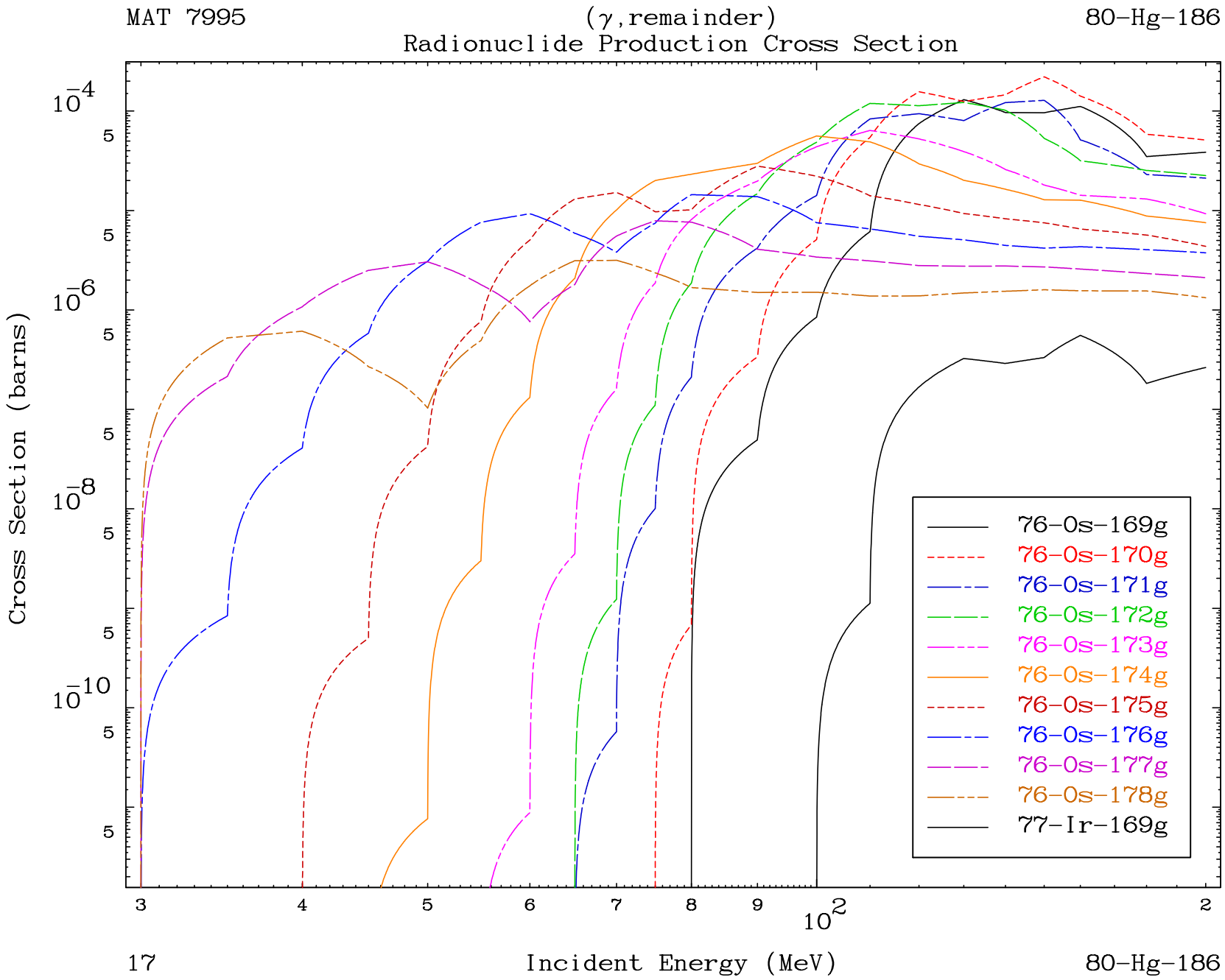

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
70-Yb-156g
70-Yb-157g
71-Lu-157g
71-Lu-157m1
71-Lu-158g
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
80-Hg-186

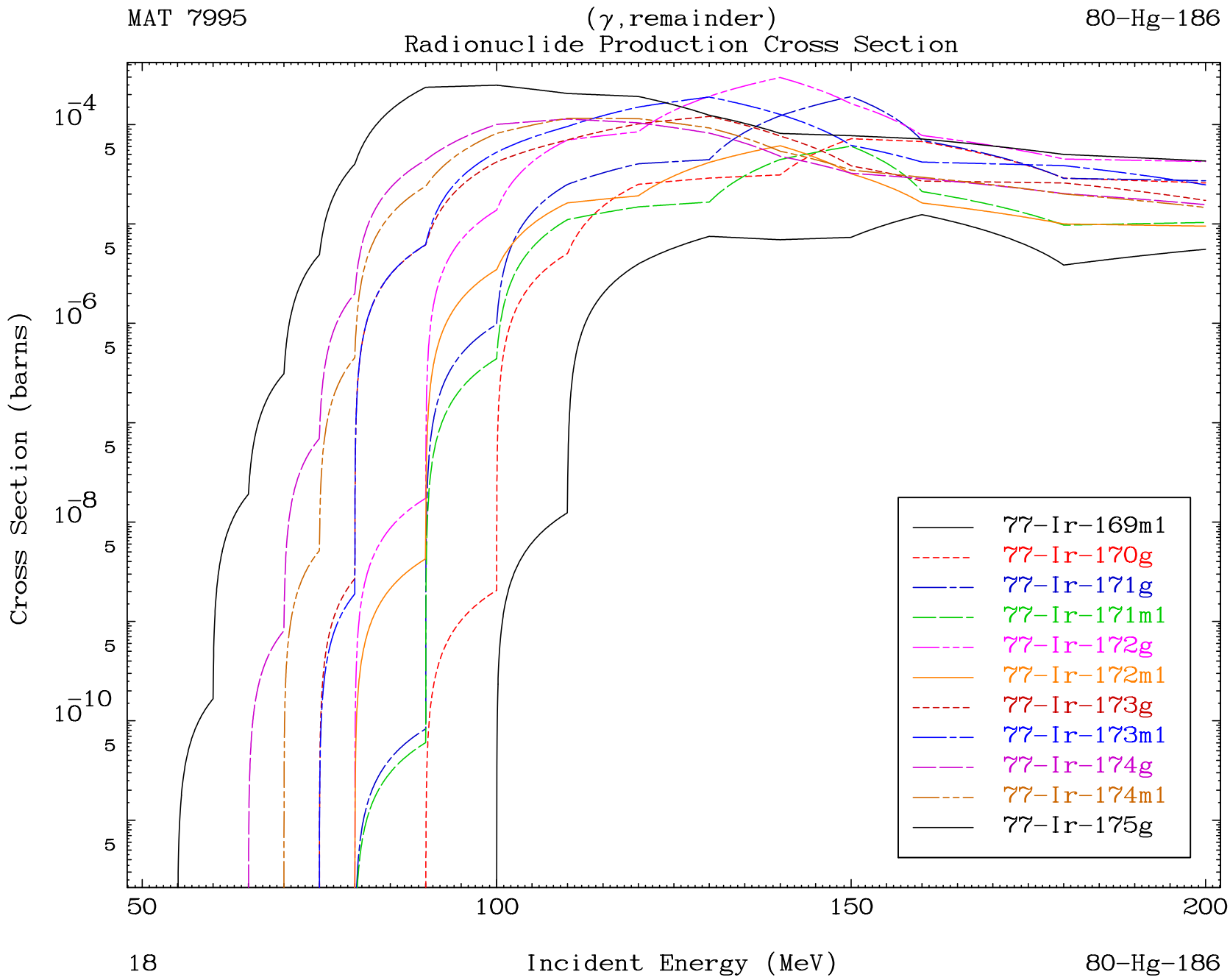

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
71-Lu-159g
72-Hf-158g
72-Hf-159g
72-Hf-160g
72-Hf-161g
72-Hf-162g
73-Ta-159g
73-Ta-159m1
73-Ta-160g
73-Ta-160m1
73-Ta-161g
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
80
100
120
140
160
180
200
13
Incident Energy (MeV)
80-Hg-186

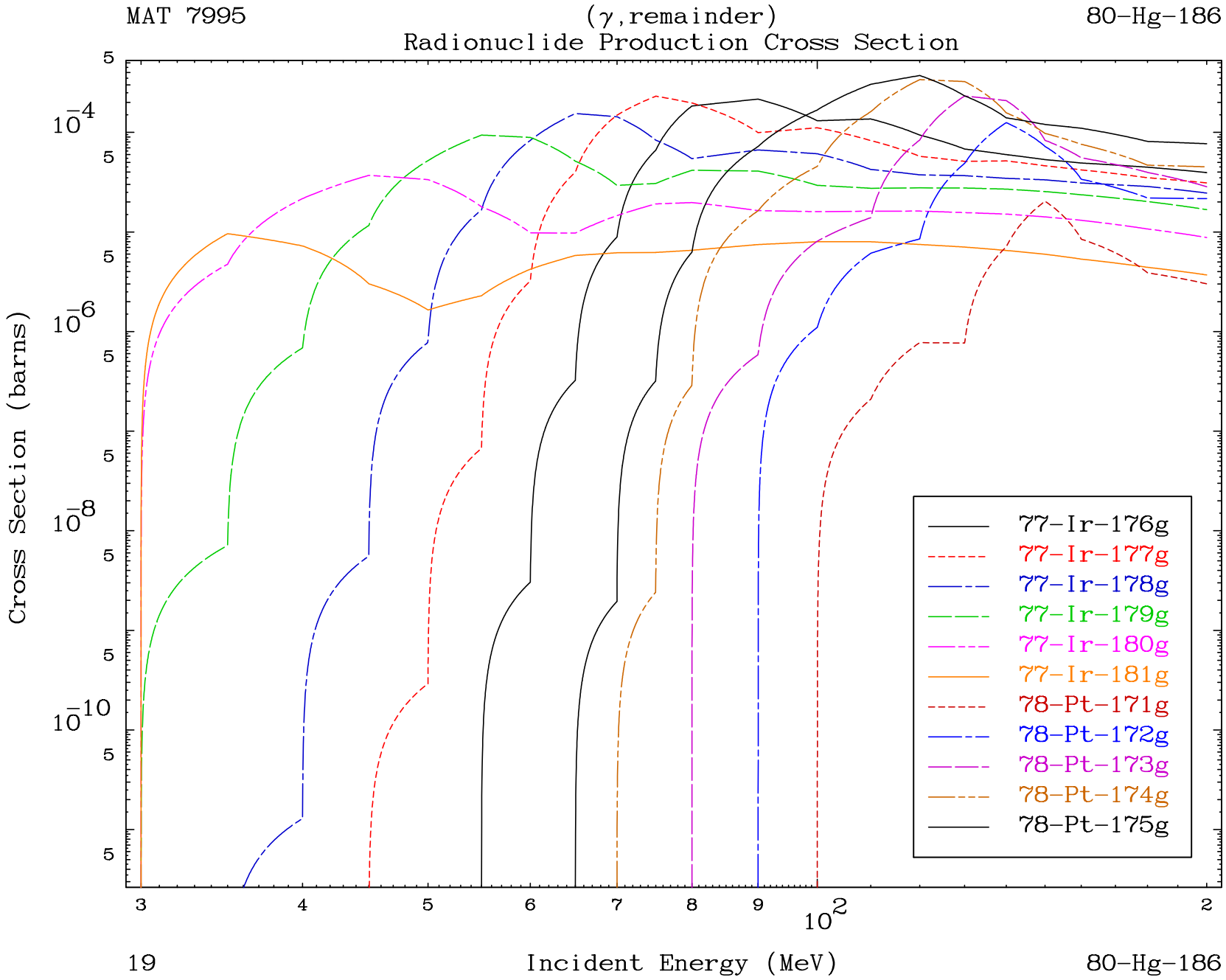

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
10-12
5
80
100
120
140
160
180
200
Incident Energy (MeV)
14
80-Hg-186
73-Ta-161m1
73-Ta-162g
73-Ta-163g
73-Ta-164g
73-Ta-165g
74-W -160g
74-W -161g
74-W -162g
74-W -163g
74-W -164g
74-W -165g


MAT 7995
(γ,remainder)
80-Hg-186
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)
15
80-Hg-186
74-W -166g
74-W -167g
74-W -168g
75-Re-163g
75-Re-163m1
75-Re-164g
75-Re-165g
75-Re-165m1
75-Re-166g
75-Re-167g
75-Re-167m1

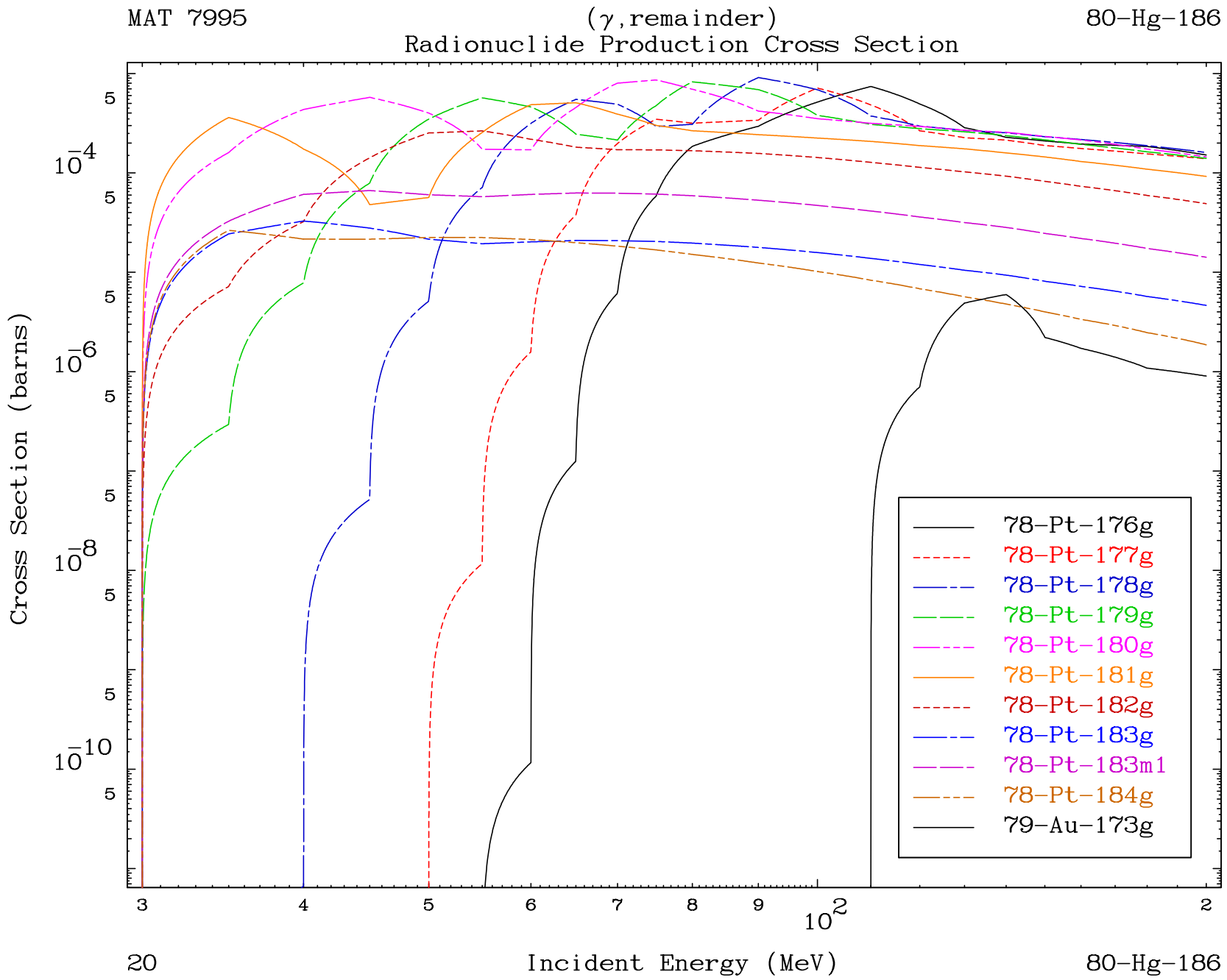

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
10-12
5
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
80-Hg-186
75-Re-168g
75-Re-169g
75-Re-169m1
75-Re-170g
75-Re-171g
75-Re-172g
75-Re-172m1
76-Os-165g
76-Os-166g
76-Os-167g
76-Os-168g

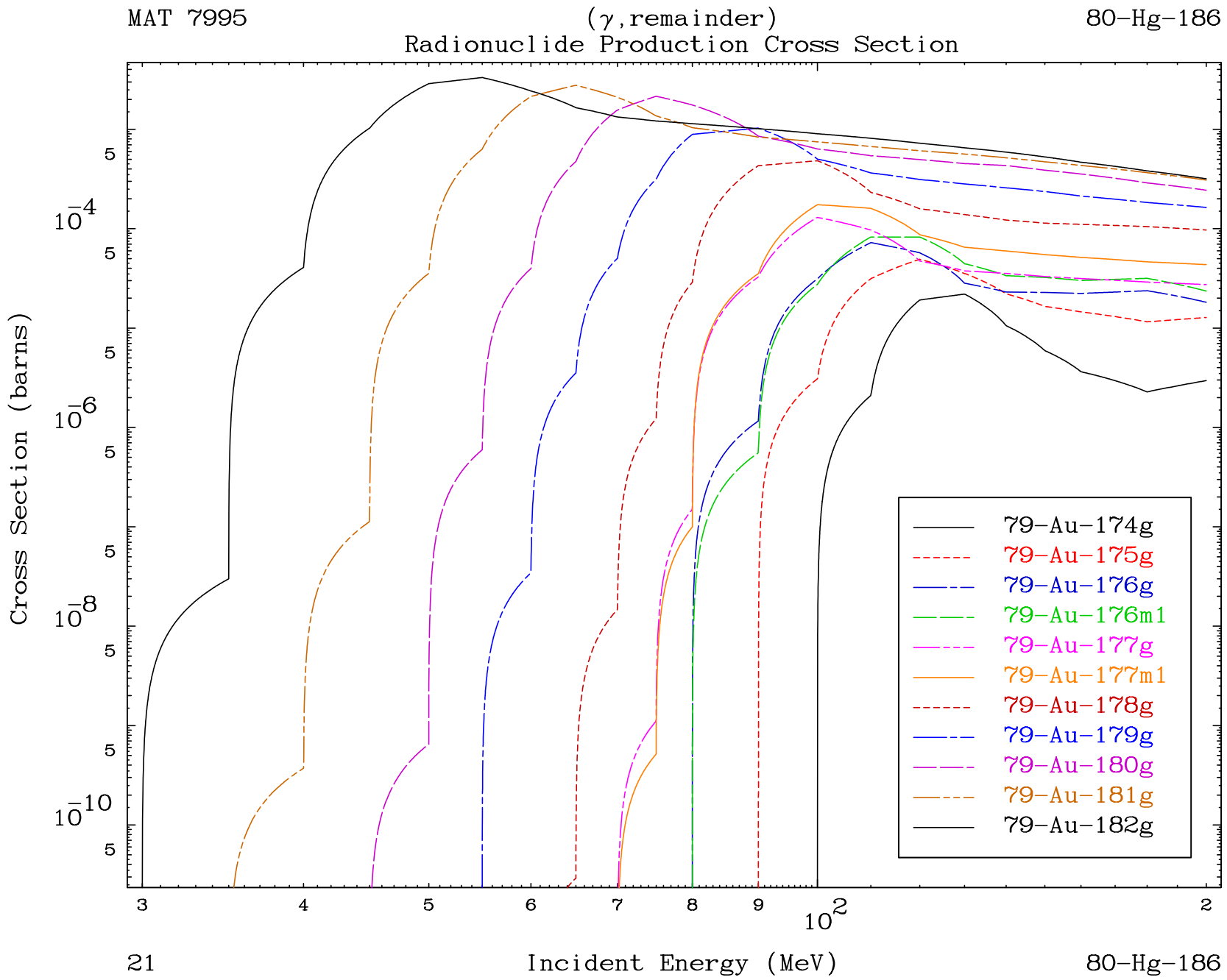

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
17
80-Hg-186
76-Os-169g
76-Os-170g
76-Os-171g
76-Os-172g
76-Os-173g
76-Os-174g
76-Os-175g
76-Os-176g
76-Os-177g
76-Os-178g
77-Ir-169g

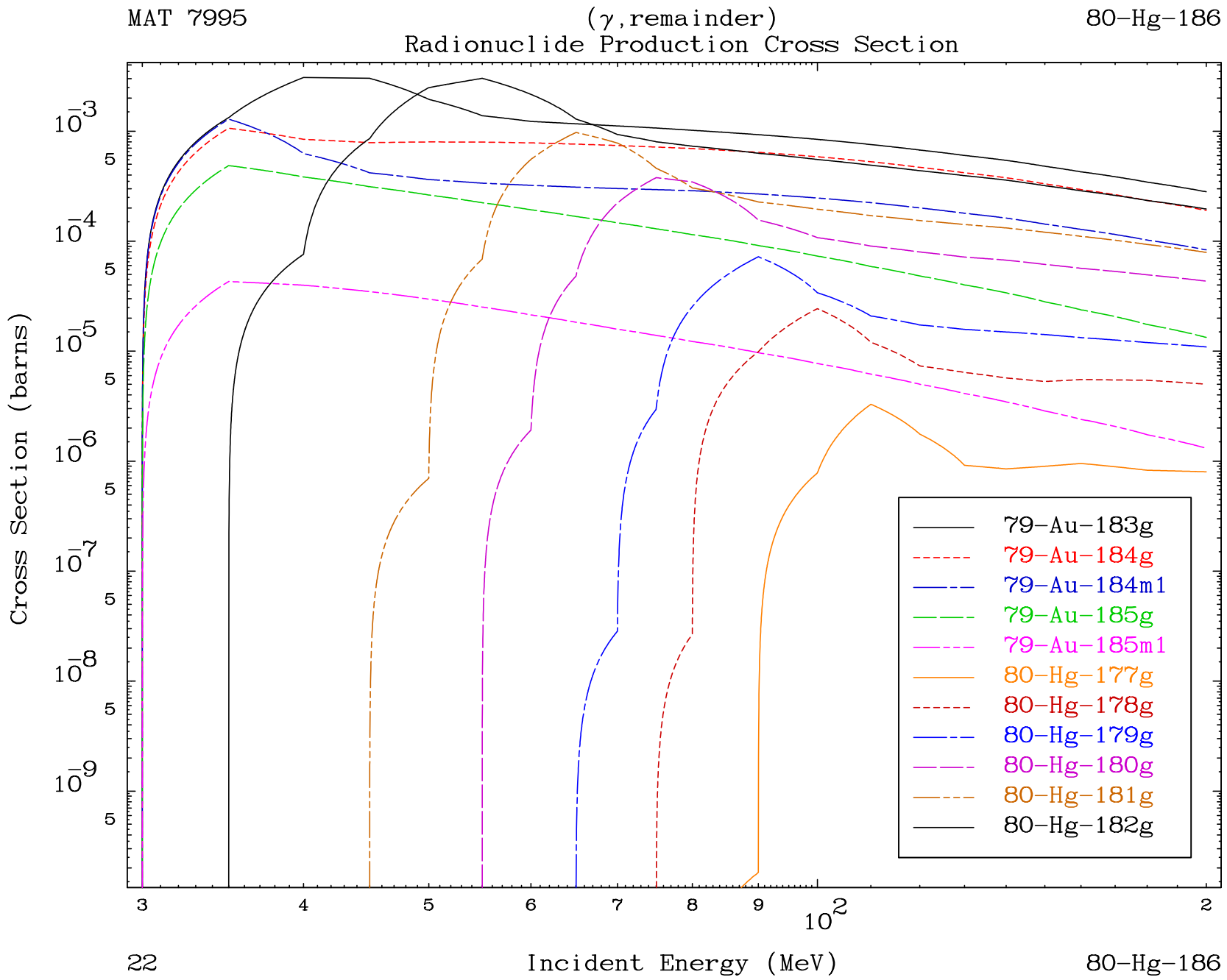

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
50
100
150
200
18
Incident Energy (MeV)
80-Hg-186
77-Ir-169m1
77-Ir-170g
77-Ir-171g
77-Ir-171m1
77-Ir-172g
77-Ir-172m1
77-Ir-173g
77-Ir-173m1
77-Ir-174g
77-Ir-174m1
77-Ir-175g

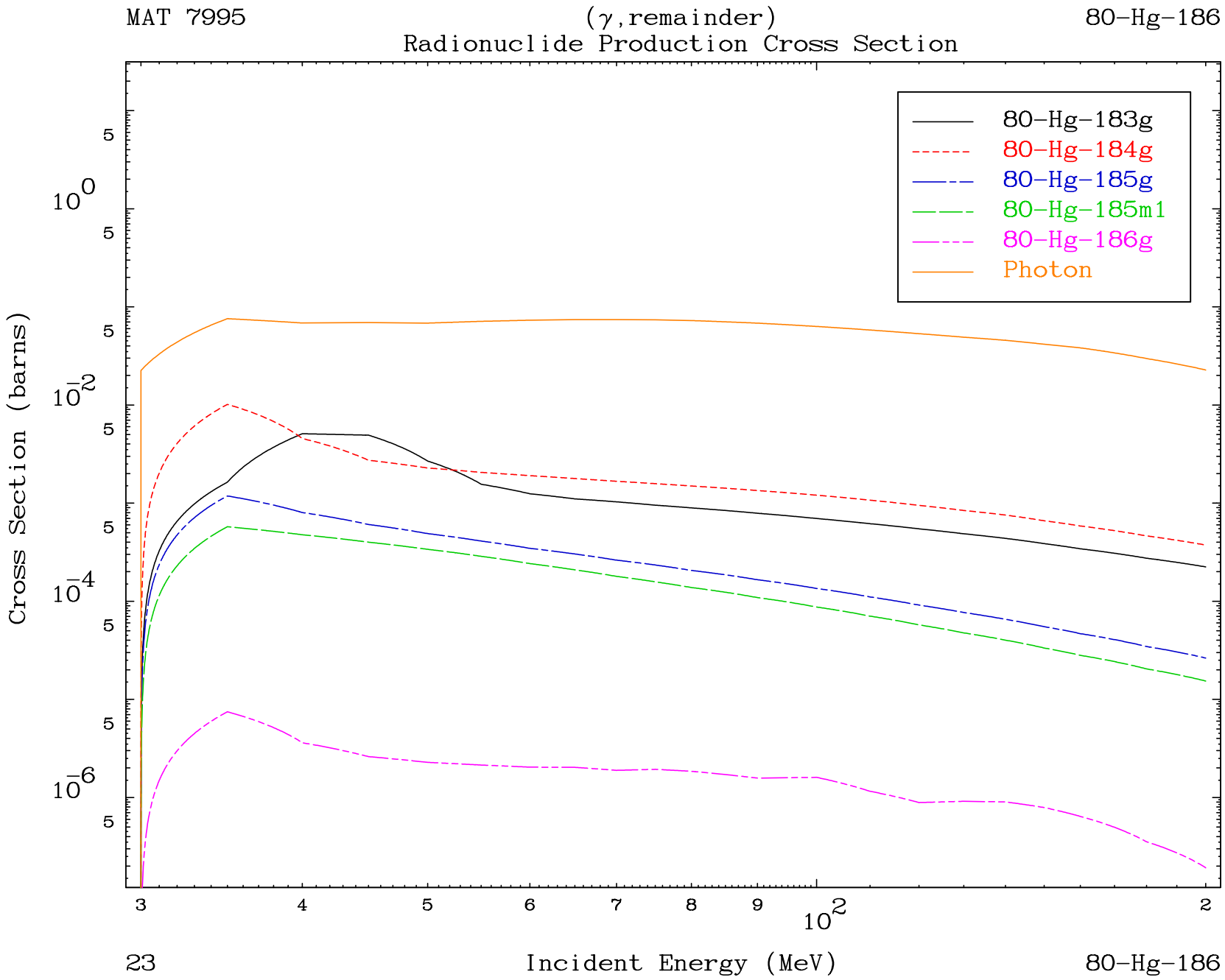

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
77-Ir-176g
77-Ir-177g
77-Ir-178g
77-Ir-179g
77-Ir-180g
77-Ir-181g
78-Pt-171g
78-Pt-172g
78-Pt-173g
78-Pt-174g
78-Pt-175g

80-Hg-186


MAT 7995
(γ,remainder)
80-Hg-186
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
20
Incident Energy (MeV)
80-Hg-186
78-Pt-176g
78-Pt-177g
78-Pt-178g
78-Pt-179g
78-Pt-180g
78-Pt-181g
78-Pt-182g
78-Pt-183g
78-Pt-183m1
78-Pt-184g
79-Au-173g

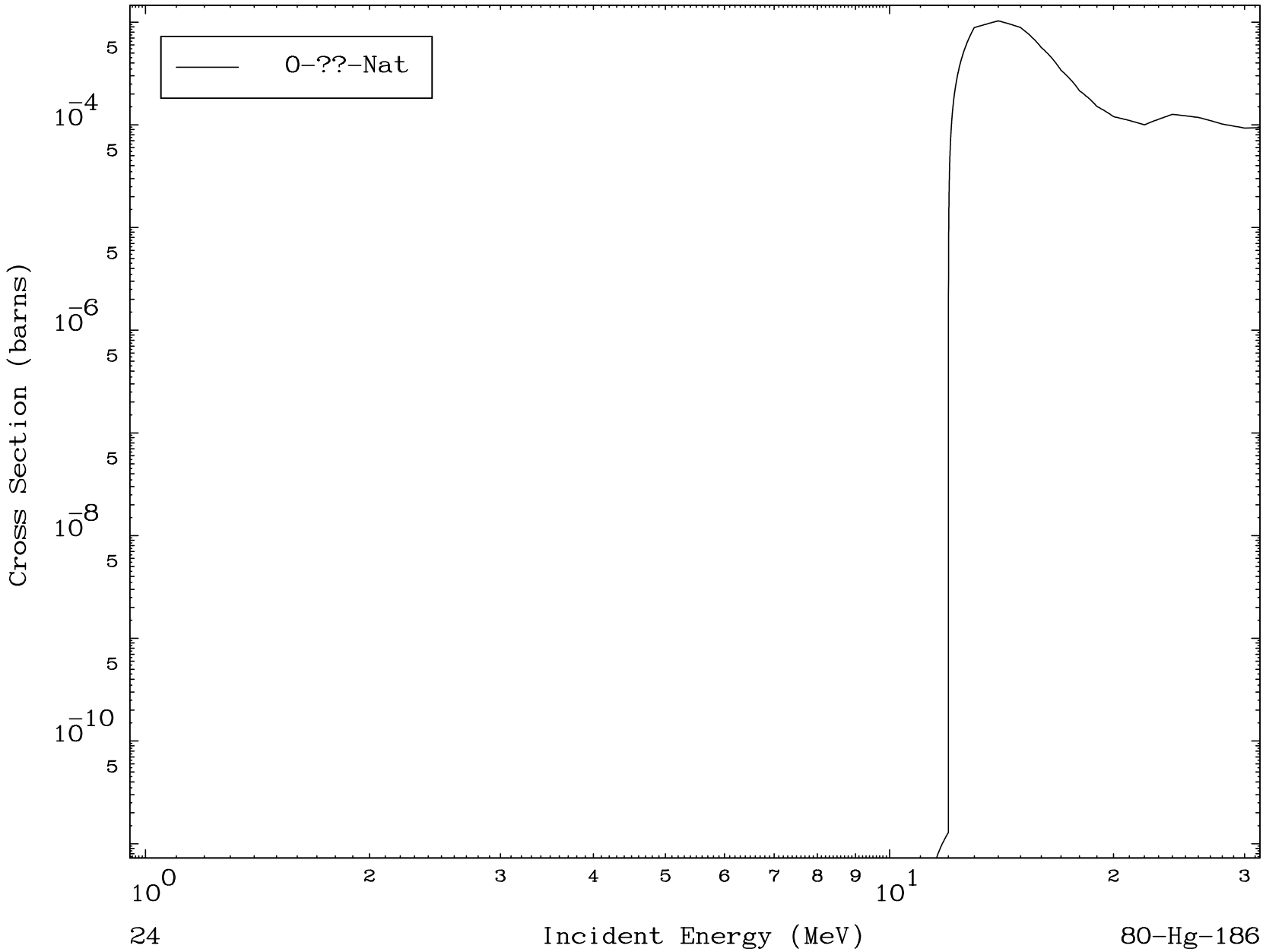

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
21
80-Hg-186
79-Au-174g
79-Au-175g
79-Au-176g
79-Au-176m1
79-Au-177g
79-Au-177m1
79-Au-178g
79-Au-179g
79-Au-180g
79-Au-181g
79-Au-182g


MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
Cross Section (barns)
10-3
10-4
10-5
10-6
10-7
10-8
10-9
5
3
4
5
6
7
8
9
10 2
2
22
Incident Energy (MeV)
80-Hg-186
79-Au-183g
79-Au-184g
79-Au-184m1
79-Au-185g
79-Au-185m1
80-Hg-177g
80-Hg-178g
80-Hg-179g
80-Hg-180g
80-Hg-181g
80-Hg-182g

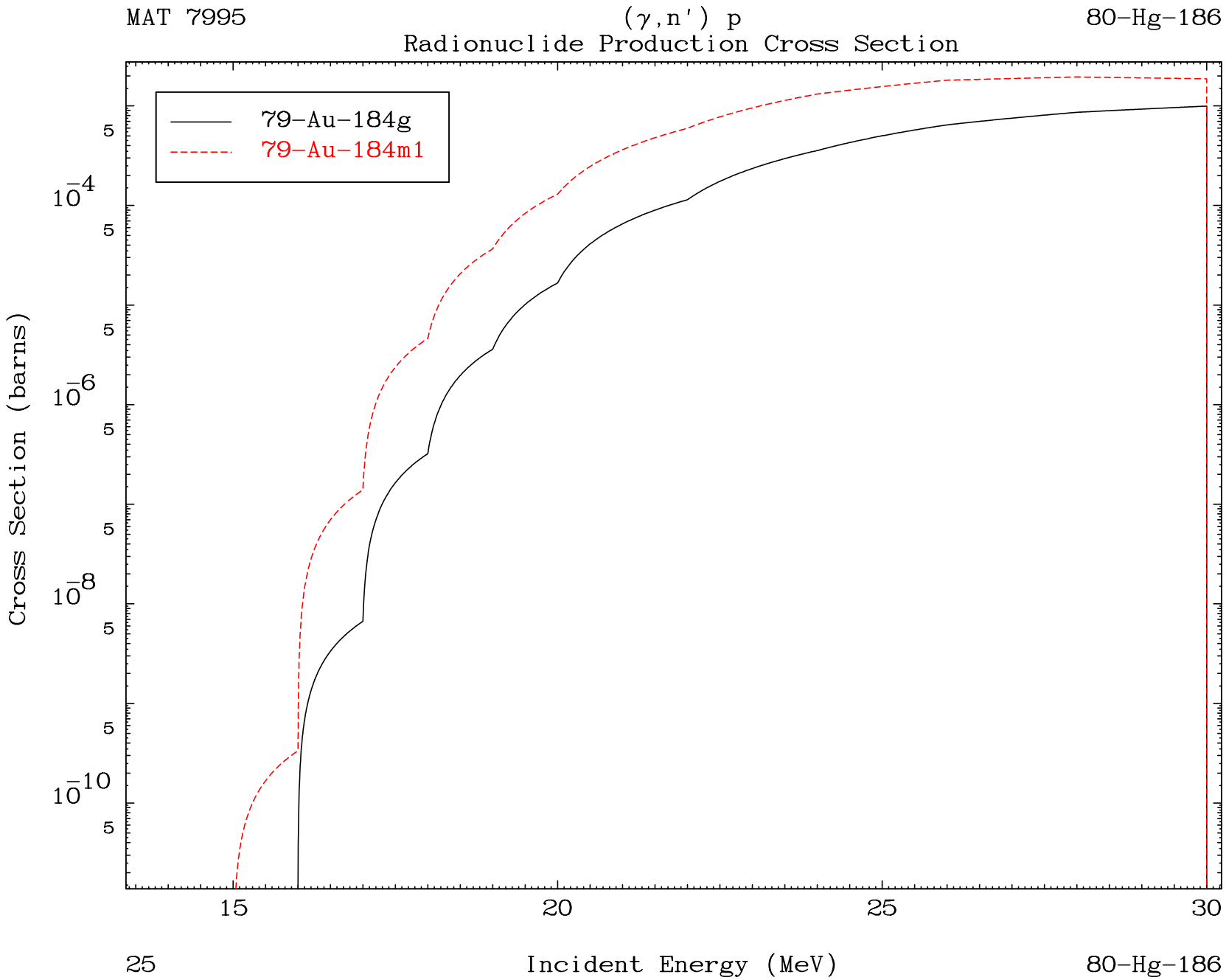

MAT 7995
(γ,remainder)
80-Hg-186
Radionuclide Production Cross Section
80-Hg-183g
80-Hg-184g
80-Hg-185g
80-Hg-185m1
80-Hg-186g
Photon
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
5
3
4
5
6
7
8
9
10^2
2
23
Incident Energy (MeV)
80-Hg-186

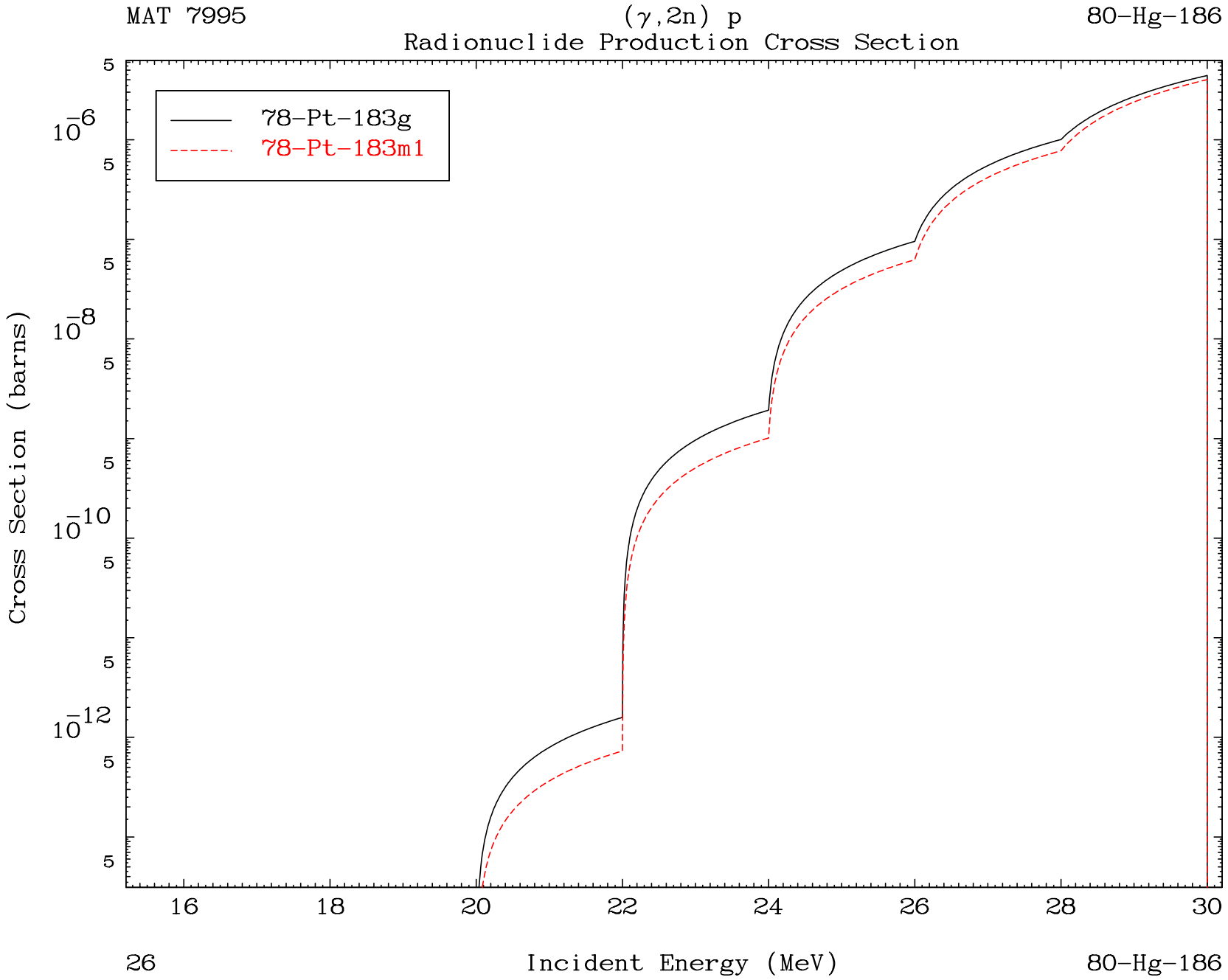
MAT 7995 Photon Fission 80-Hg-186

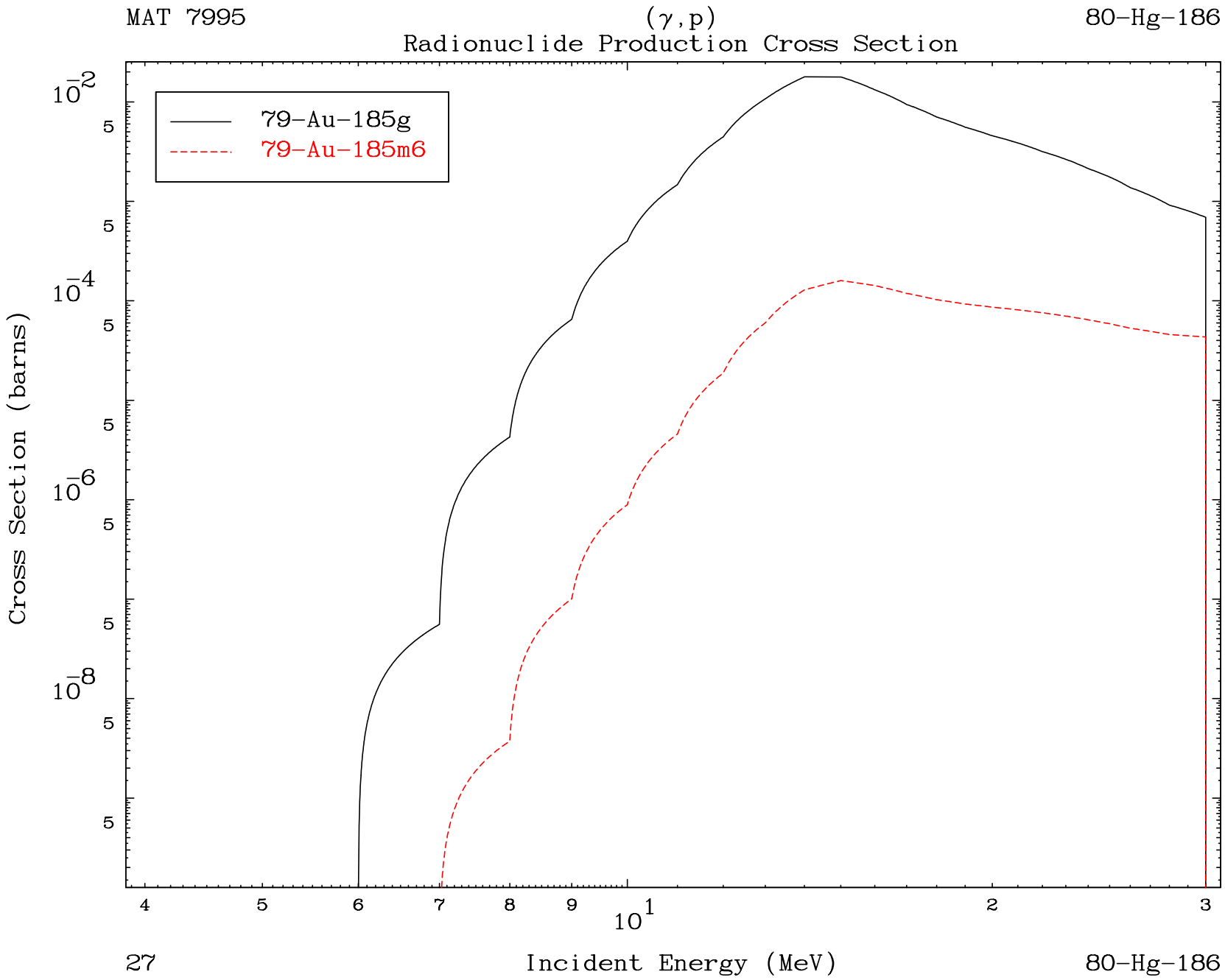
Radionuclide Production Cross Section

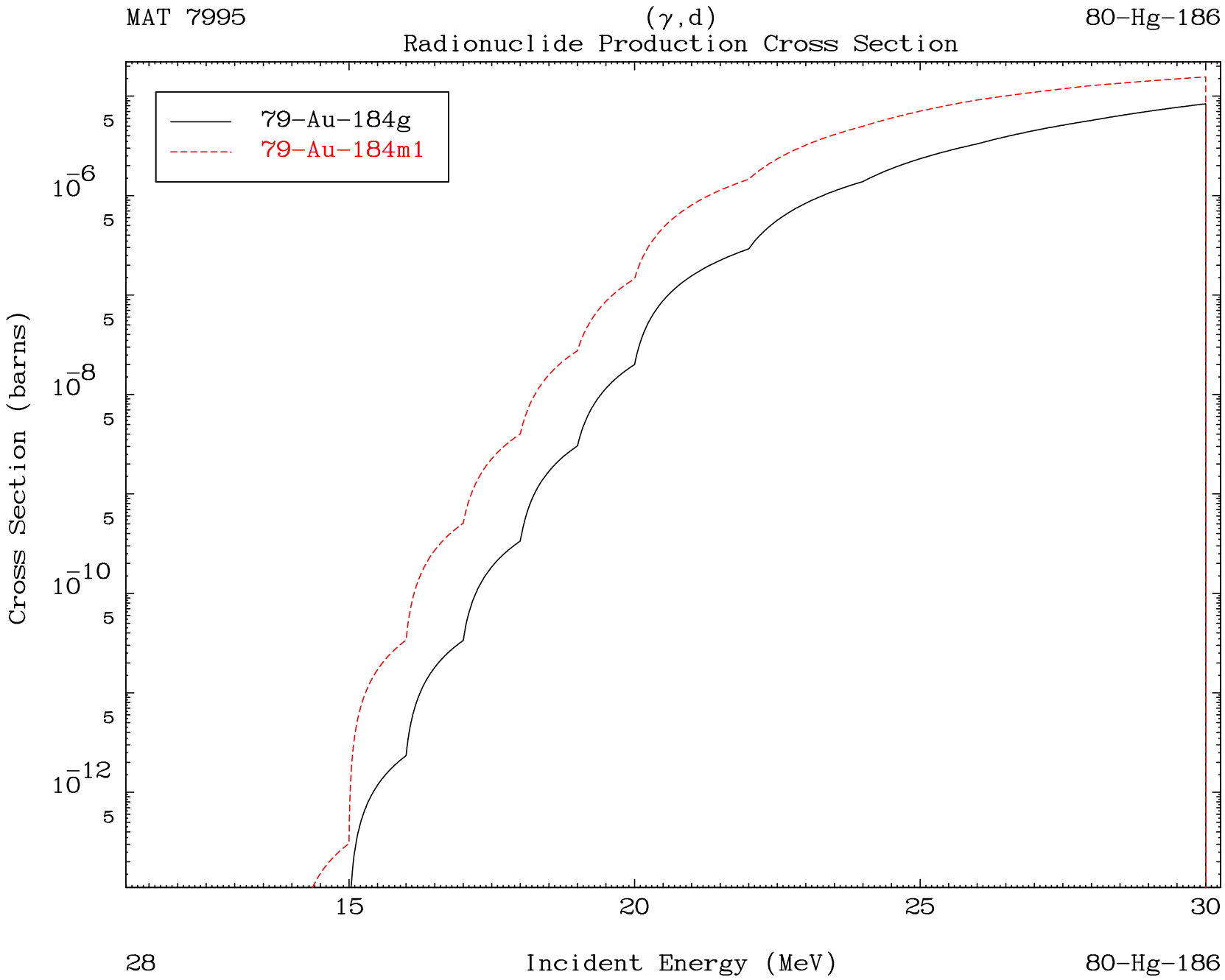


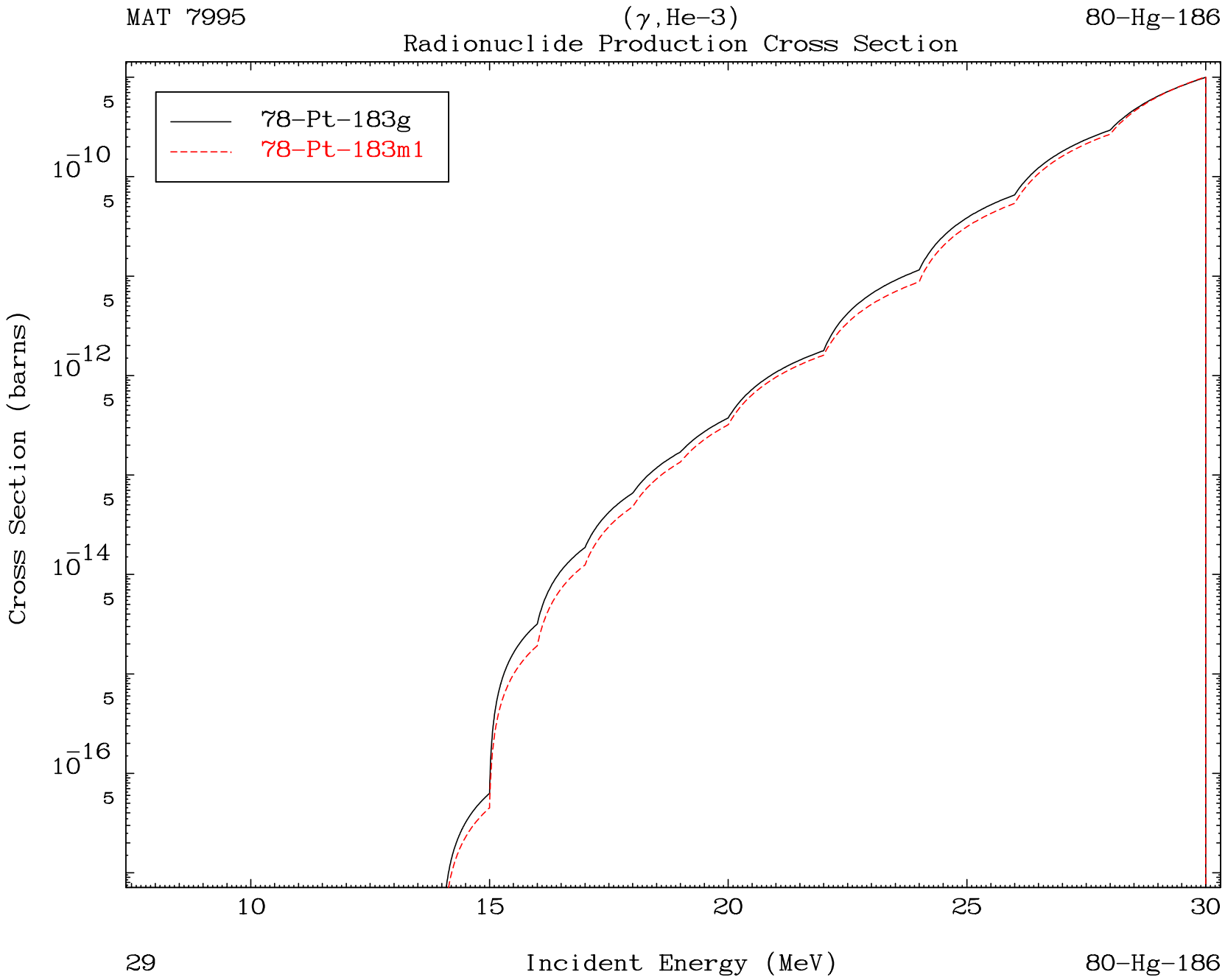
80-Hg-186

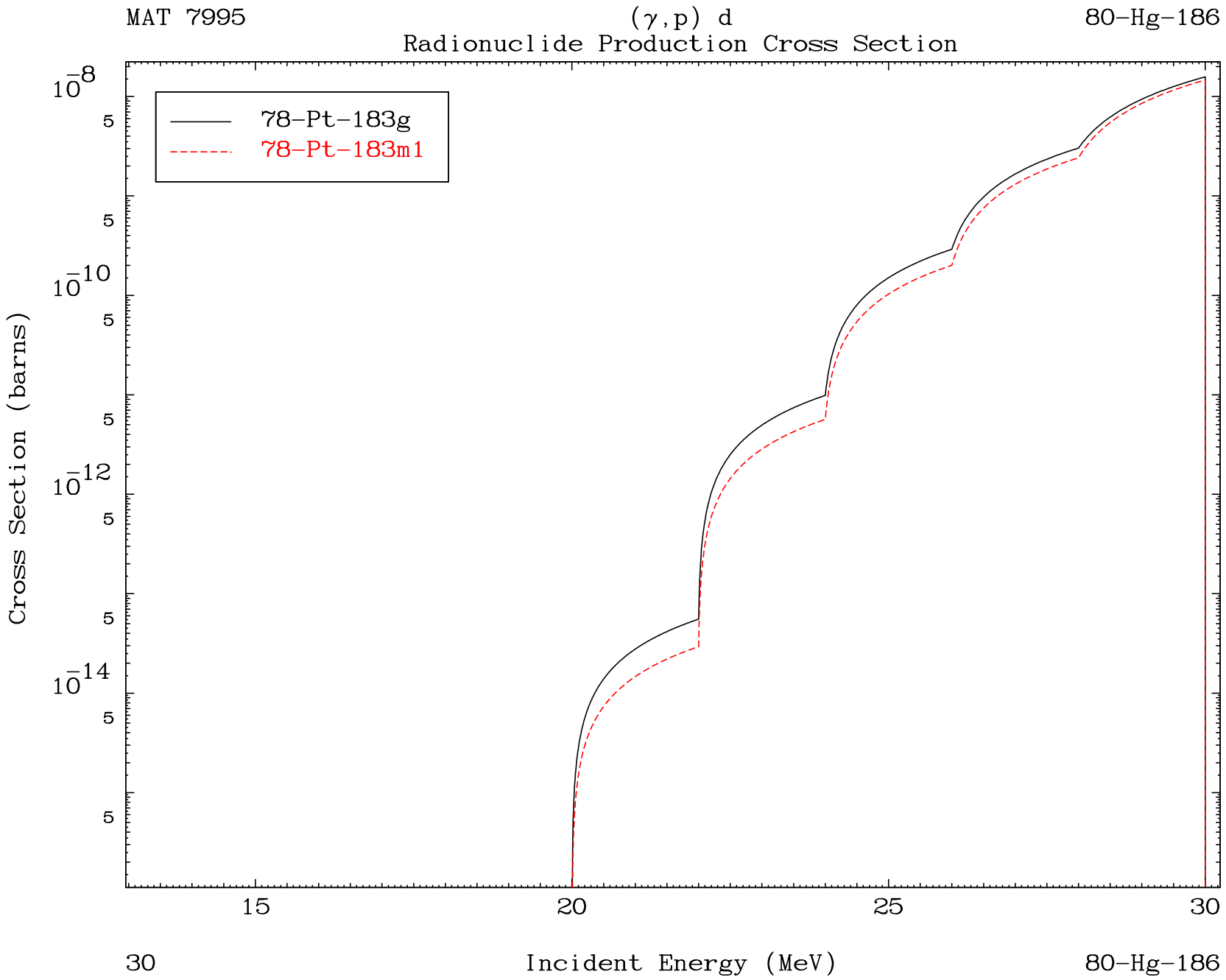

MAT 7995
(γ,n') p
80-Hg-186
Radionuclide Production Cross Section
79-Au-184g
79-Au-184m1
Cross Section (barns)
10-4
10-6
10-8
10-10
15
20
25
30
25
Incident Energy (MeV)
80-Hg-186


MAT 7995
(γ,2n) p
80-Hg-186
Radionuclide Production Cross Section
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
16
18
20
22
24
26
28
30
26
Incident Energy (MeV)
80-Hg-186


MAT 7995
(γ,p)
80-Hg-186
Radionuclide Production Cross Section
79-Au-185g
79-Au-185m6
Cross Section (barns)
10-2
10-4
10-6
10-8
4
5
6
7
8
9
10 1
2
3
Incident Energy (MeV)
27
80-Hg-186


MAT 7995
(γ,d)
80-Hg-186
Radionuclide Production Cross Section
79-Au-184g
79-Au-184m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
15
20
25
30
28
Incident Energy (MeV)
80-Hg-186


MAT 7995
(γ,He-3)
80-Hg-186
Radionuclide Production Cross Section
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
10
15
20
25
30
29
Incident Energy (MeV)
80-Hg-186


MAT 7995
(γ,p) d
80-Hg-186
Radionuclide Production Cross Section
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
15
20
25
30
Incident Energy (MeV)
80-Hg-186