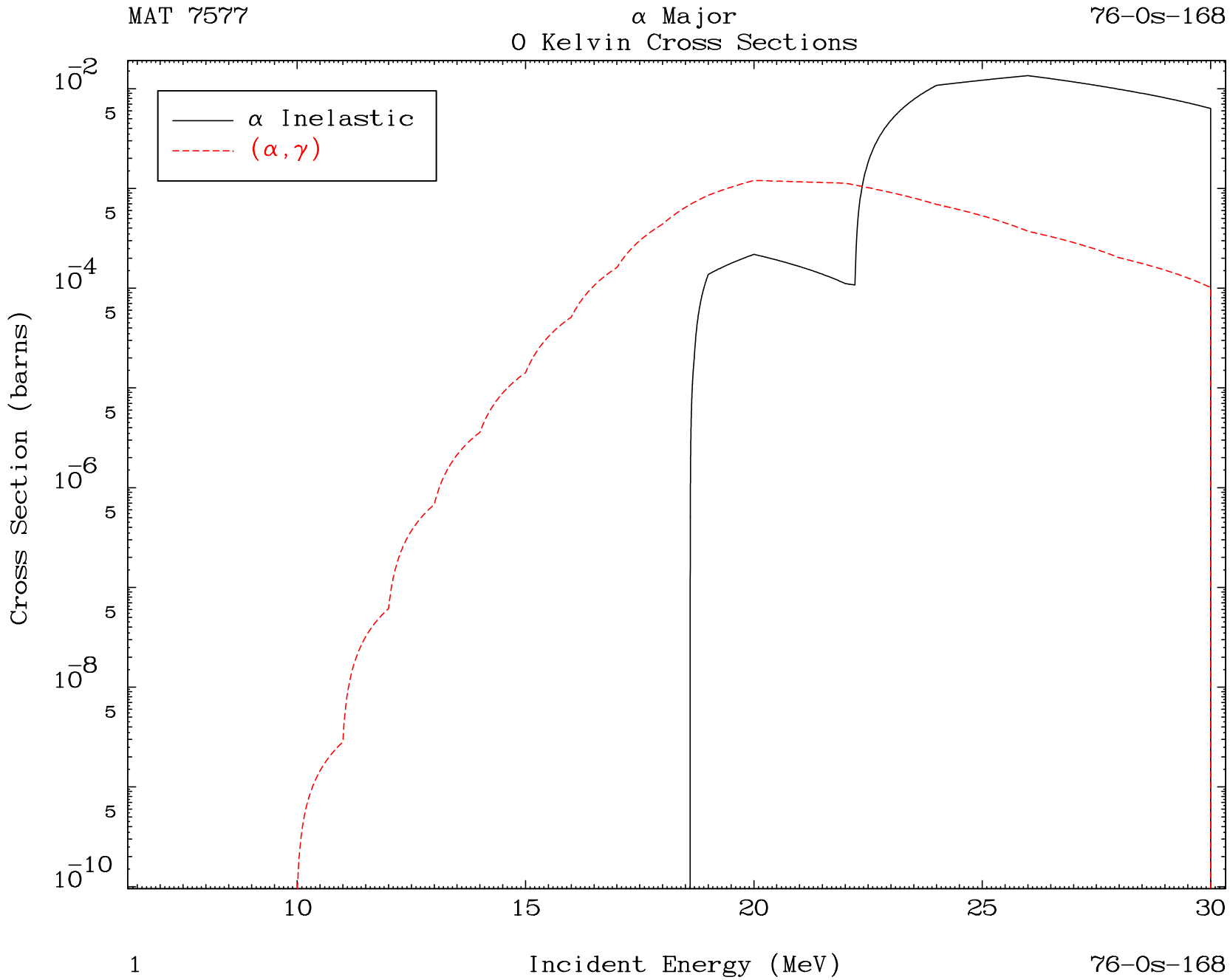
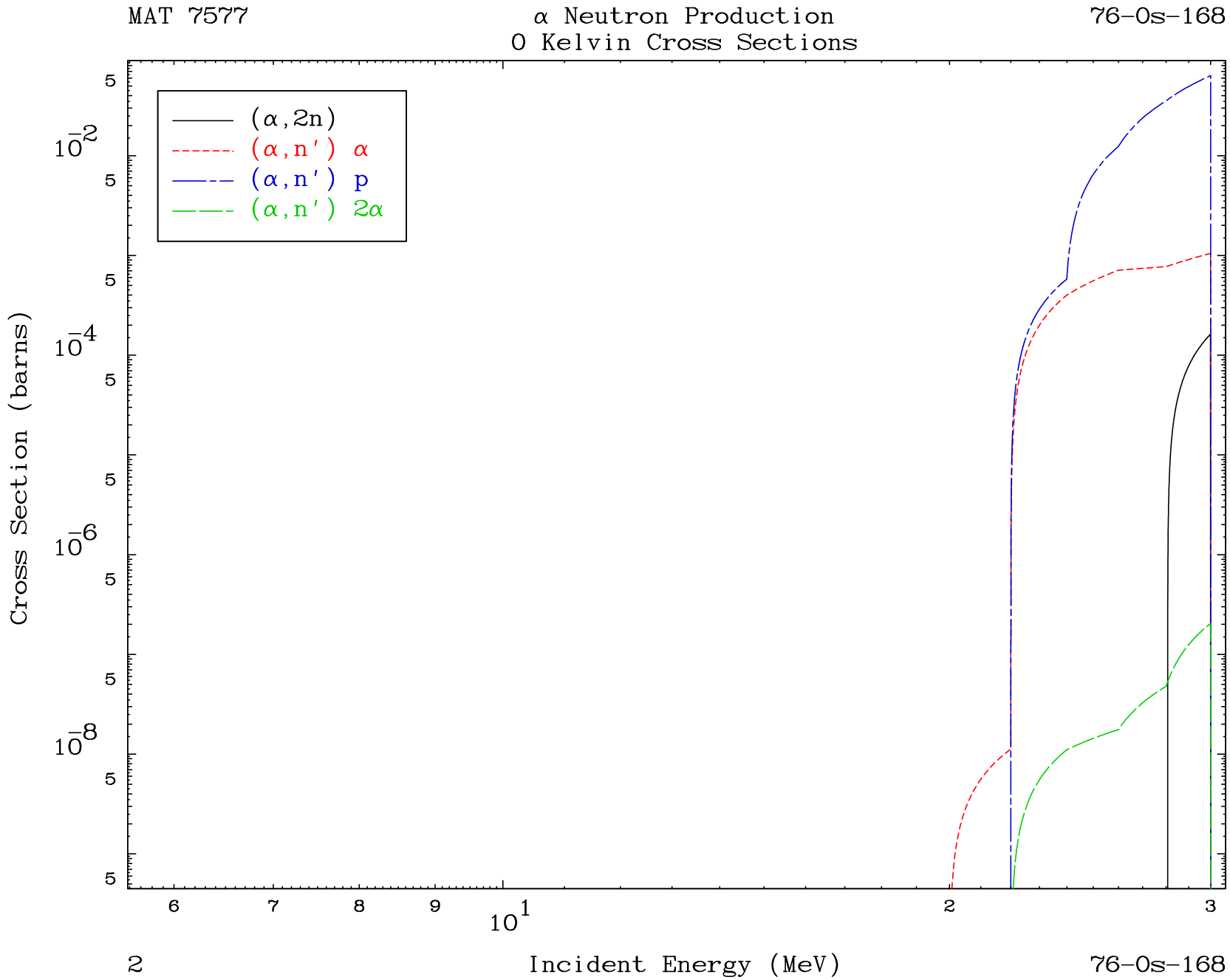
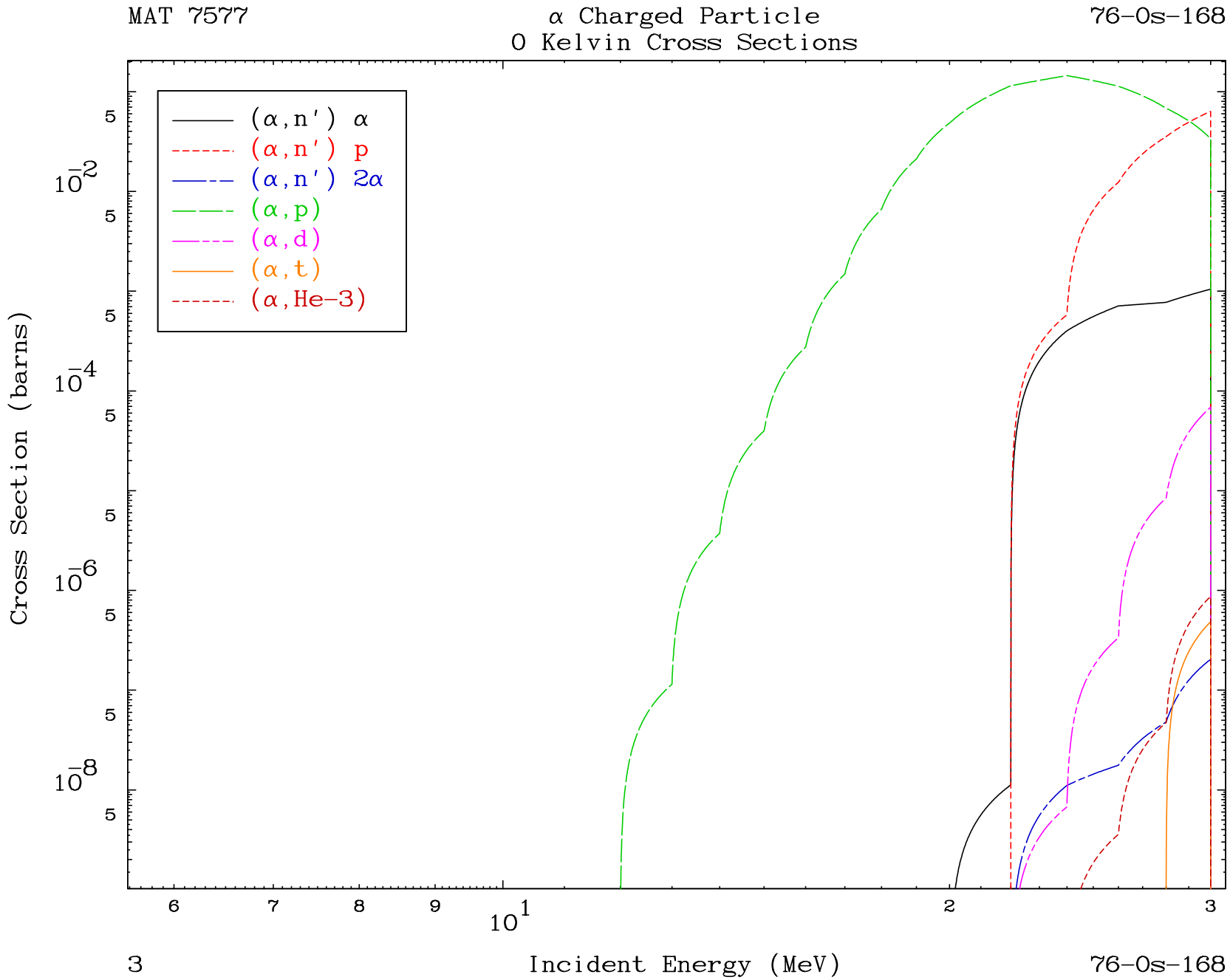
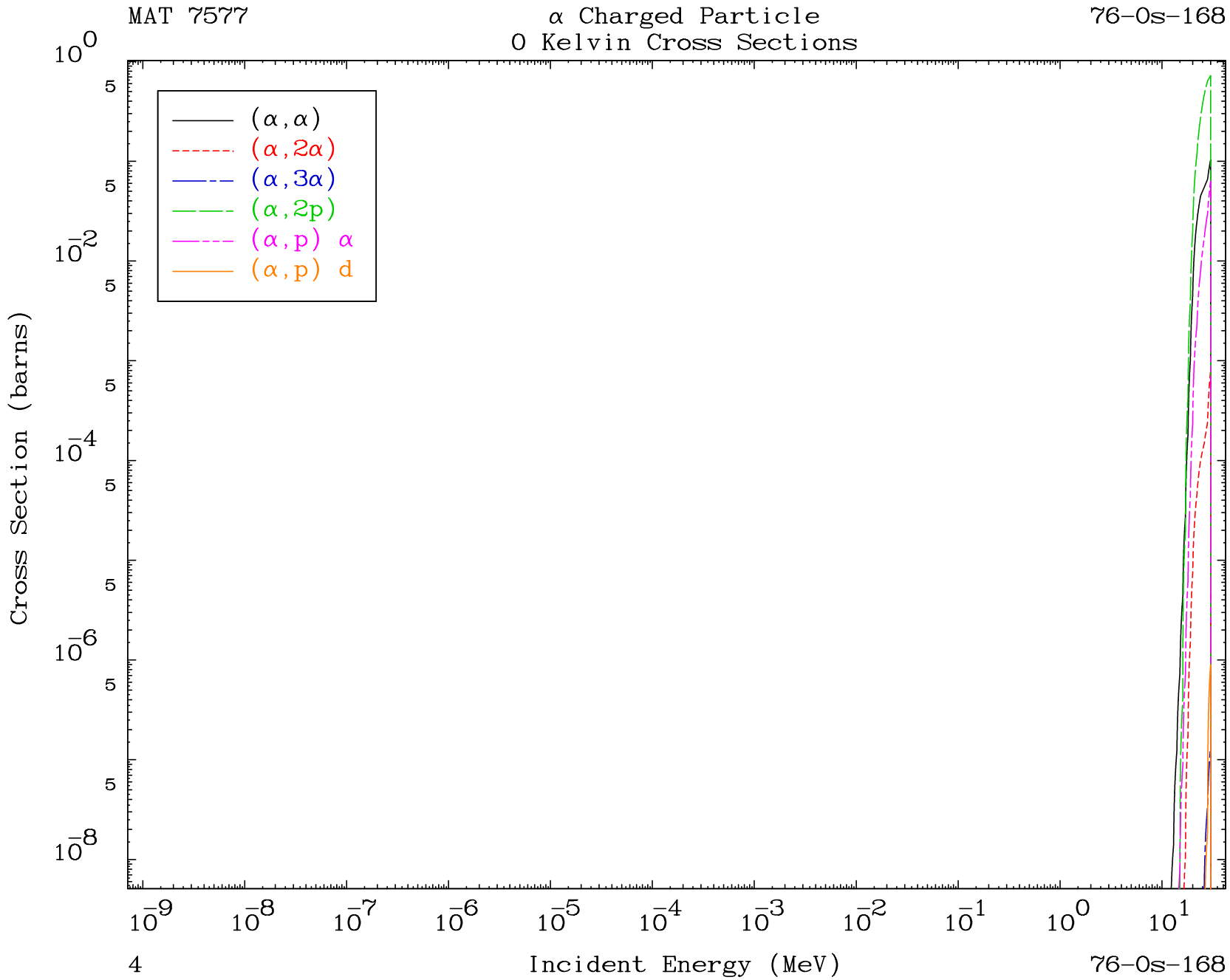
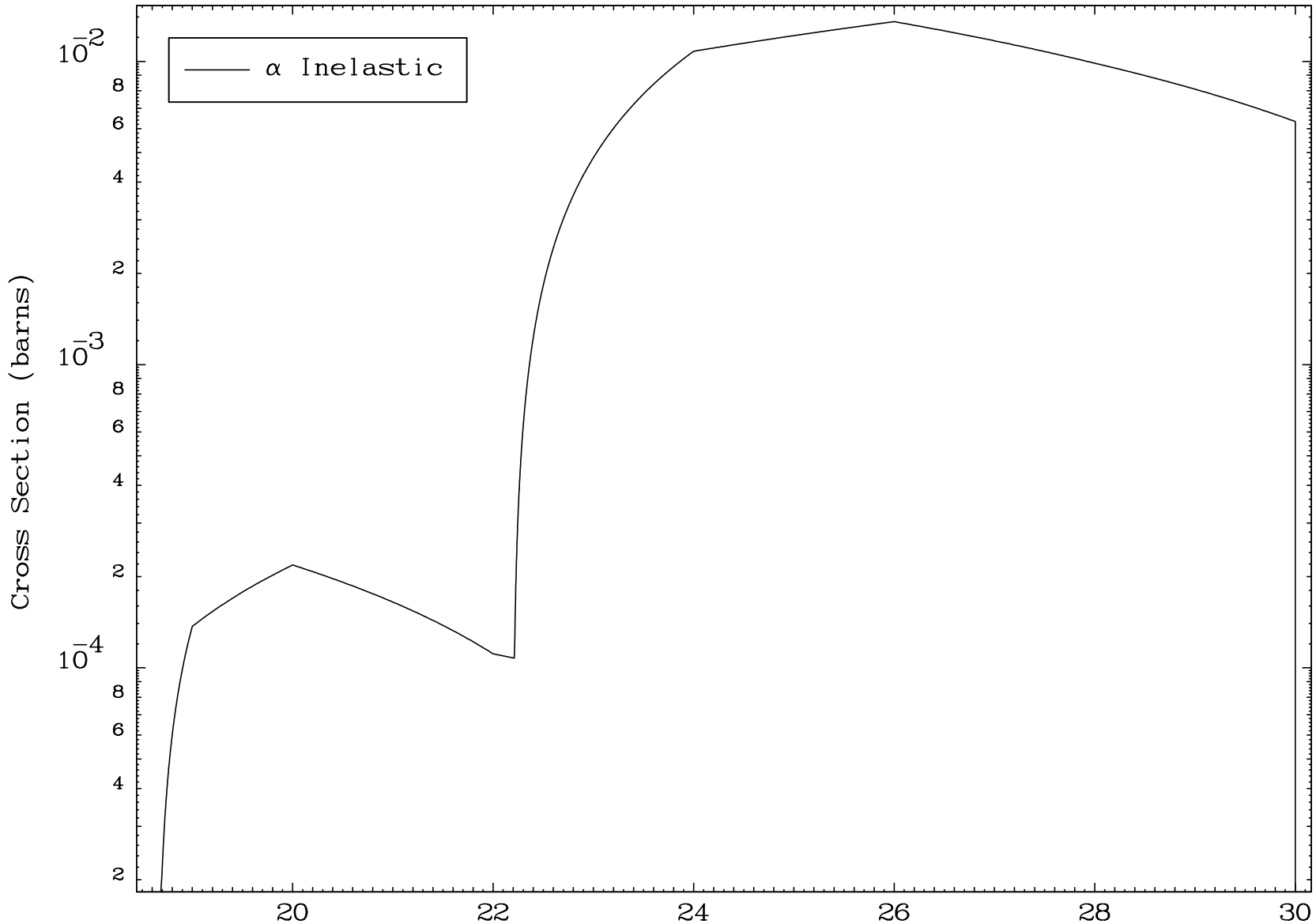

MAT 7577
α Major
0 Kelvin Cross Sections
76-0s-168
α Inelastic
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
1
76-0s-168


MAT 7577
α Neutron Production
0 Kelvin Cross Sections
76-0s-168
(α,2n)
(α,n') α
(α,n') p
(α,n') 2α
Cross Section (barns)
Incident Energy (MeV)
2
76-0s-168

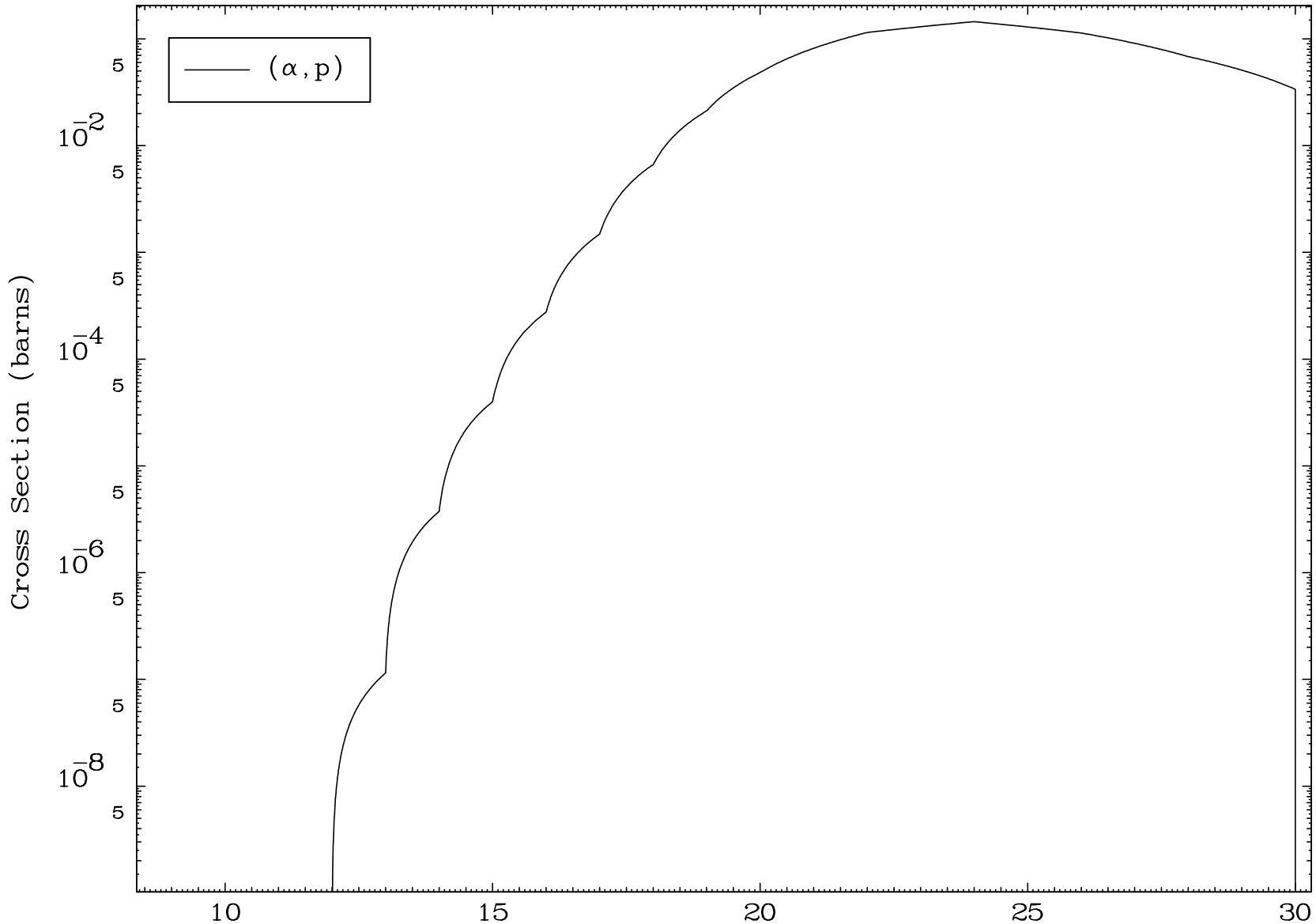

MAT 7577
α Charged Particle
0 Kelvin Cross Sections
76-0s-168
(α,n') α
(α,n') p
(α,n') 2α
(α,p)
(α,d)
(α,t)
(α,He-3)
Cross Section (barns)
Incident Energy (MeV)
3
76-0s-168


MAT 7577
α Charged Particle
0 Kelvin Cross Sections
76-0s-168
(α,α)
(α,2α)
(α,3α)
(α,2p)
(α,p) α
(α,p) d
Cross Section (barns)
Incident Energy (MeV)
4
76-0s-168

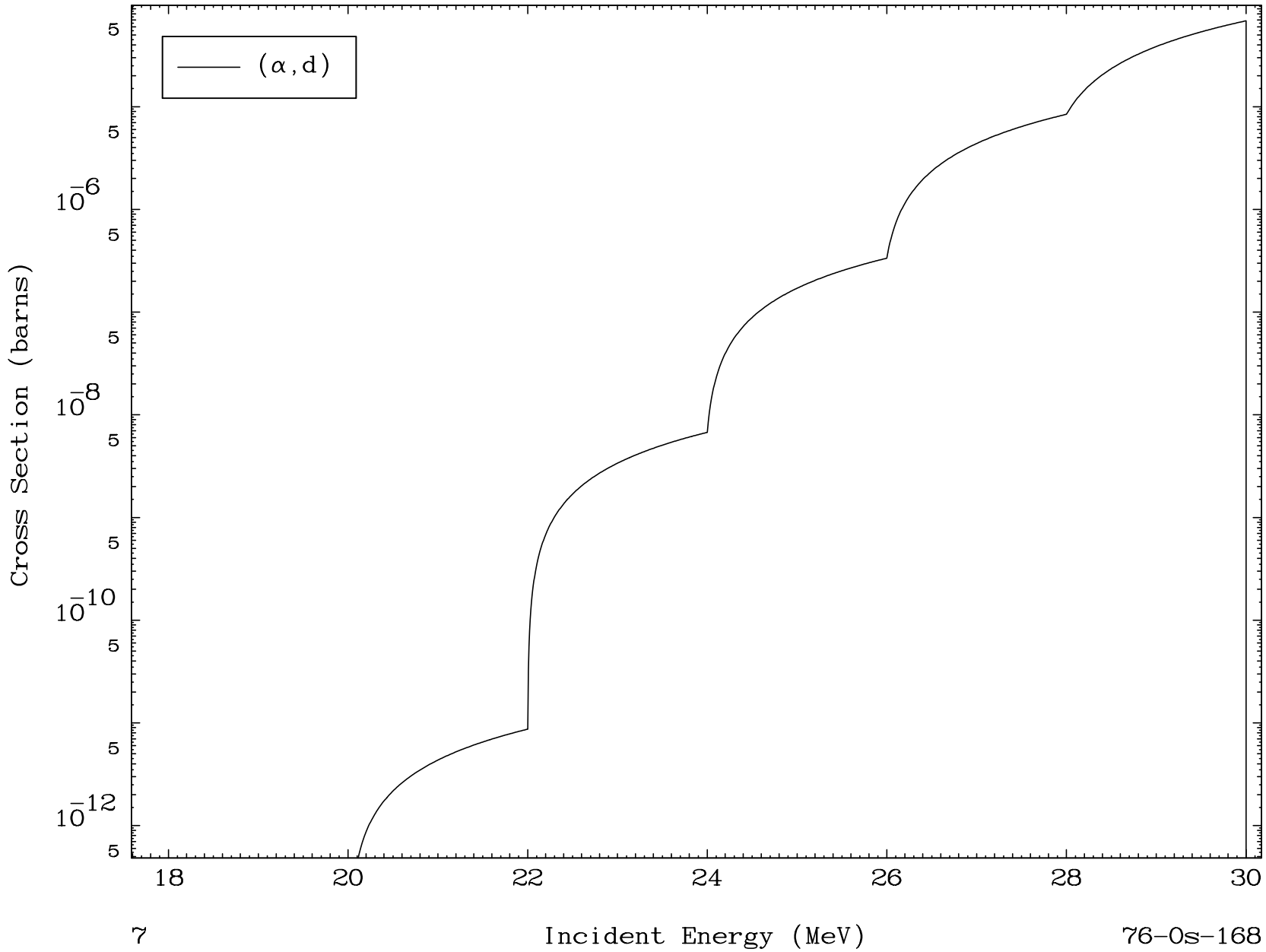
0 Kelvin Cross Sections



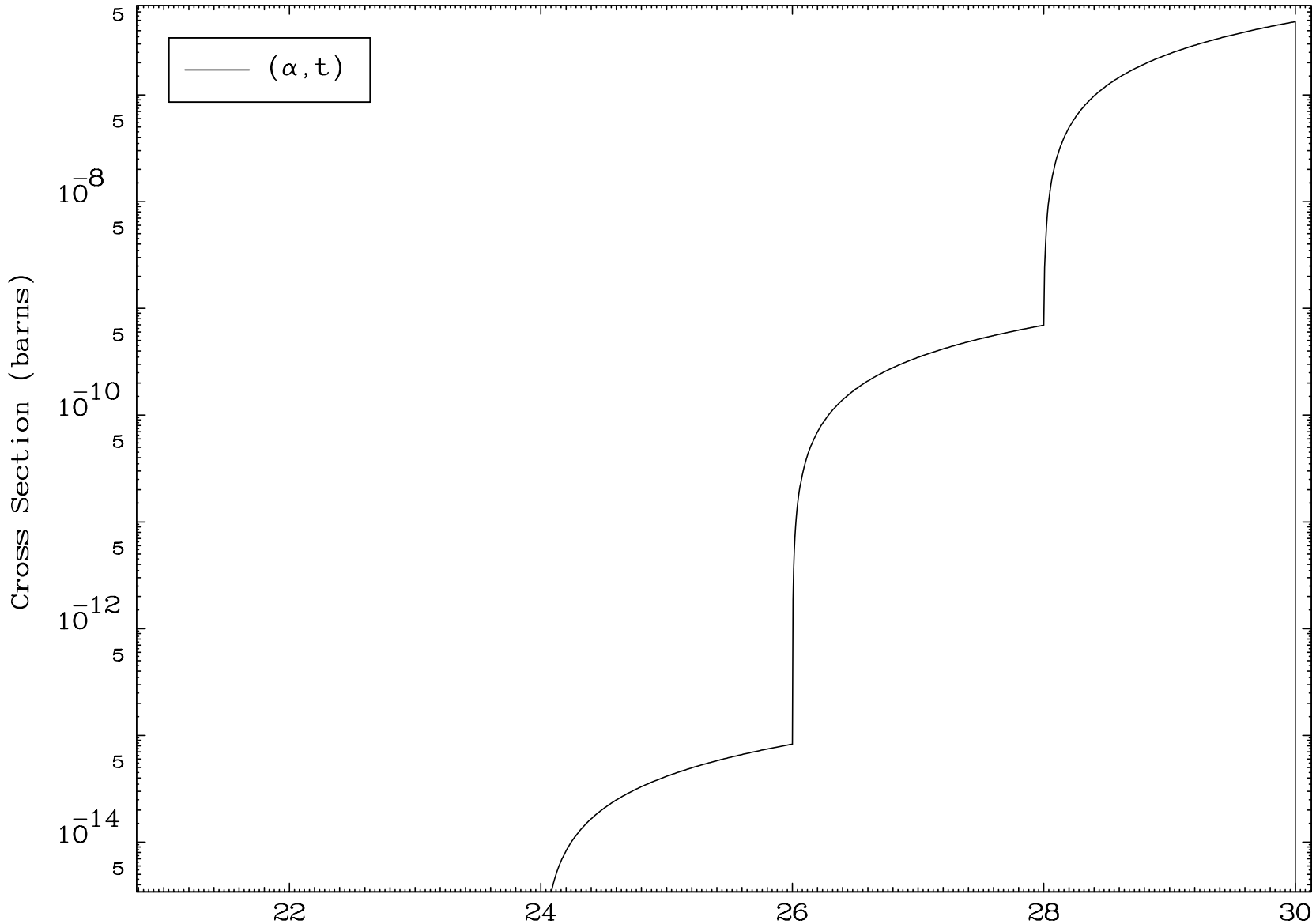
(α,p) Levels
0 Kelvin Cross Sections



(α,d) Levels
0 Kelvin Cross Sections

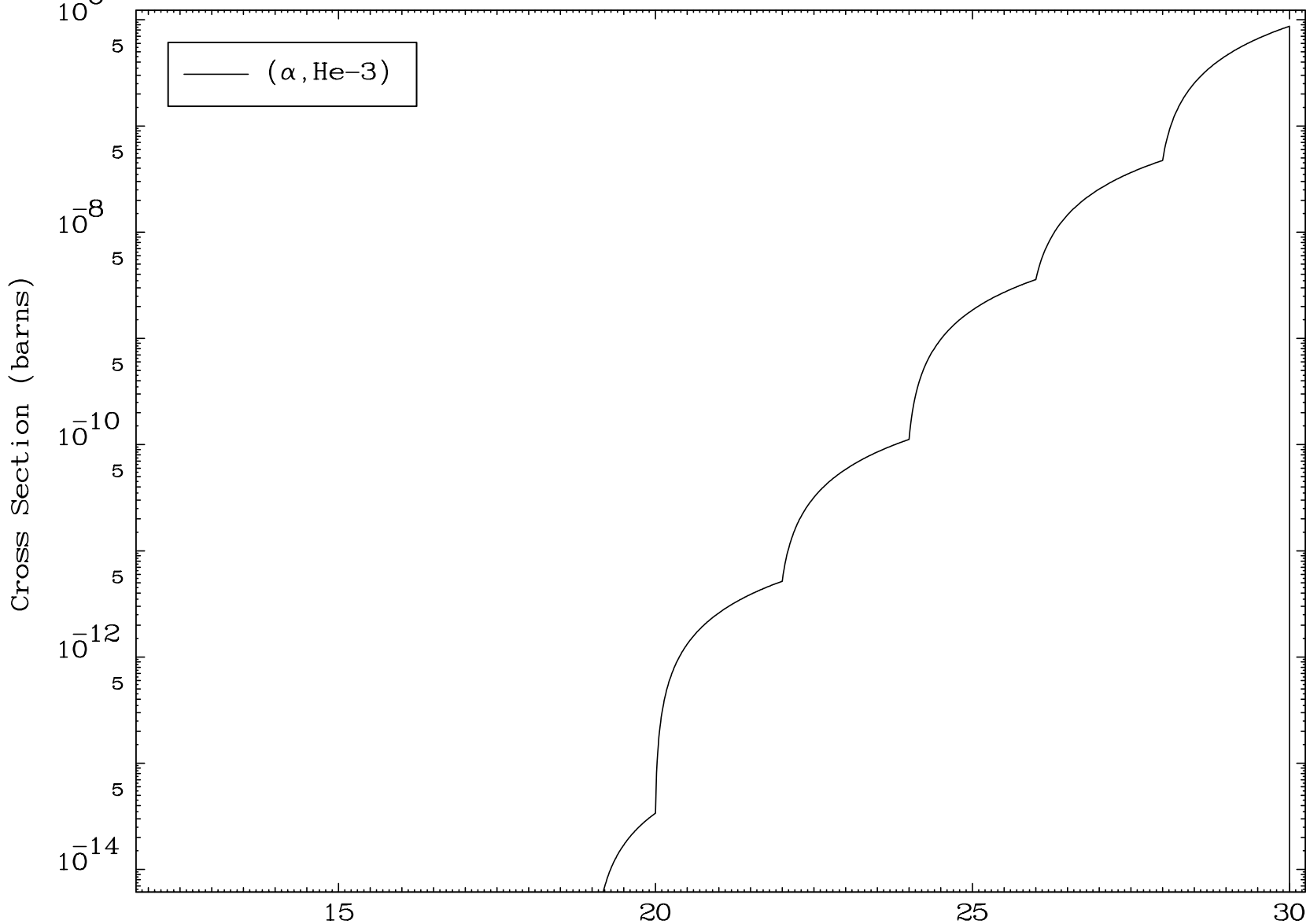


(α,t) Levels
0 Kelvin Cross Sections

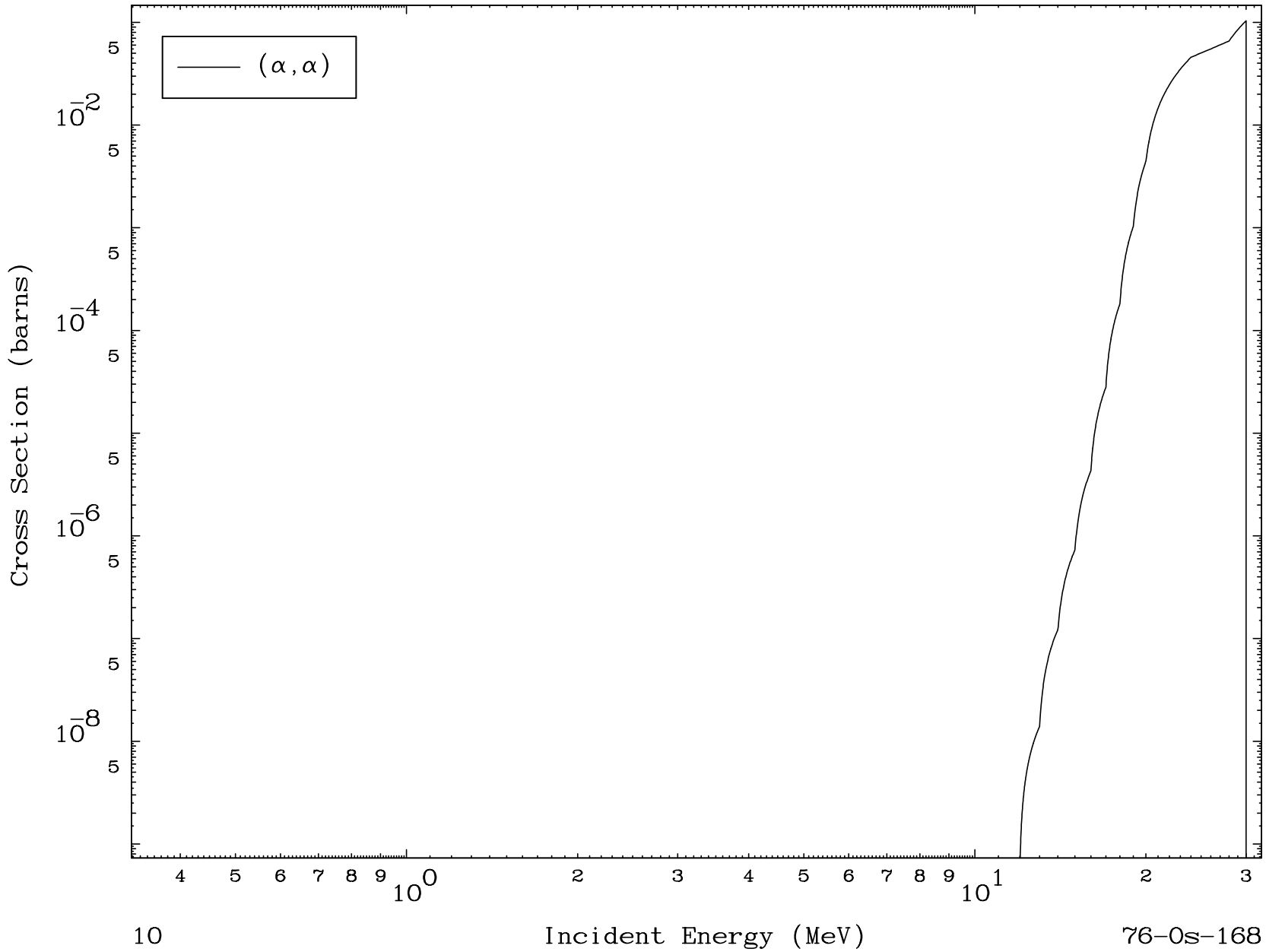


Incident Energy (MeV)

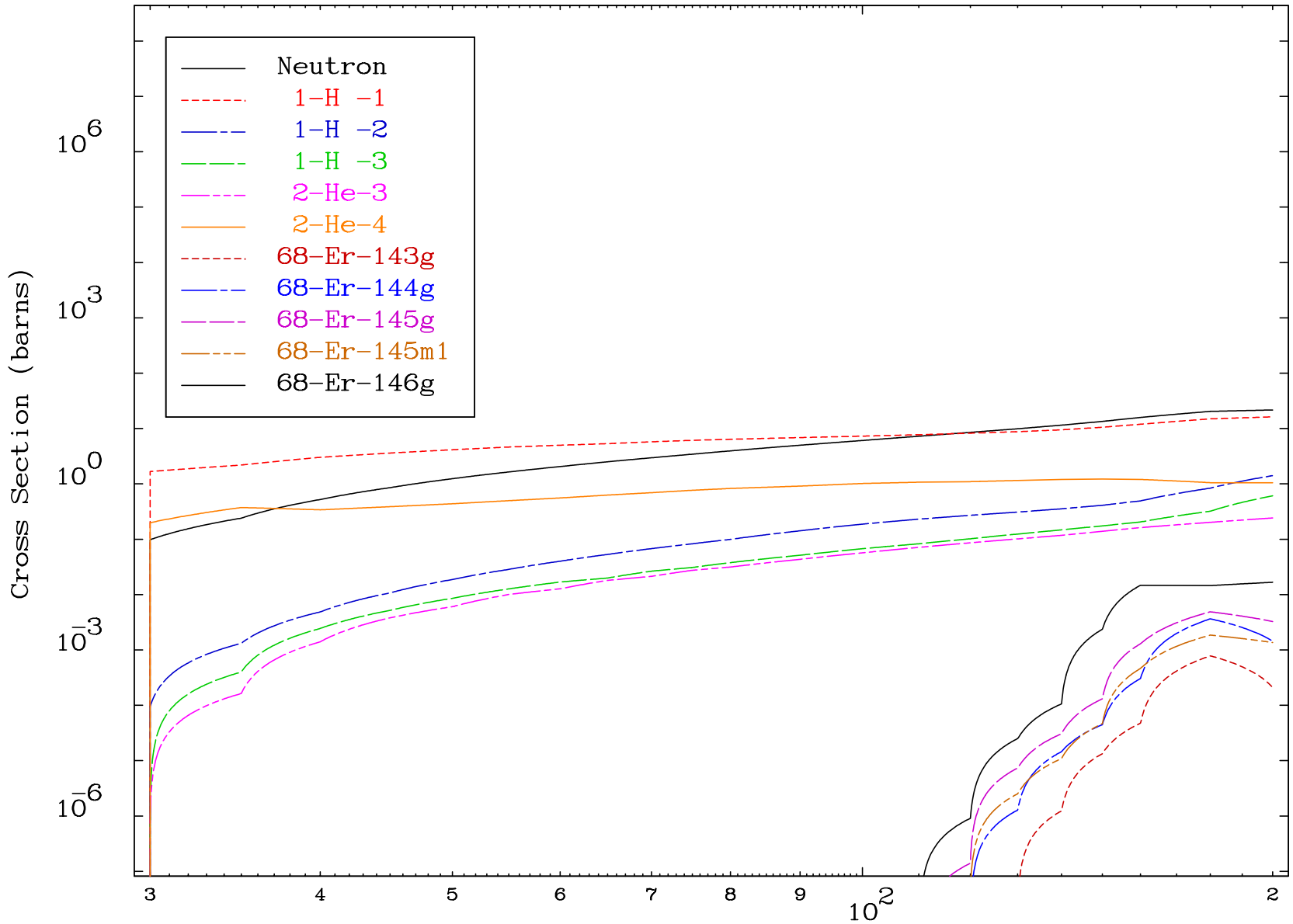
(α,He3) Levels
0 Kelvin Cross Sections



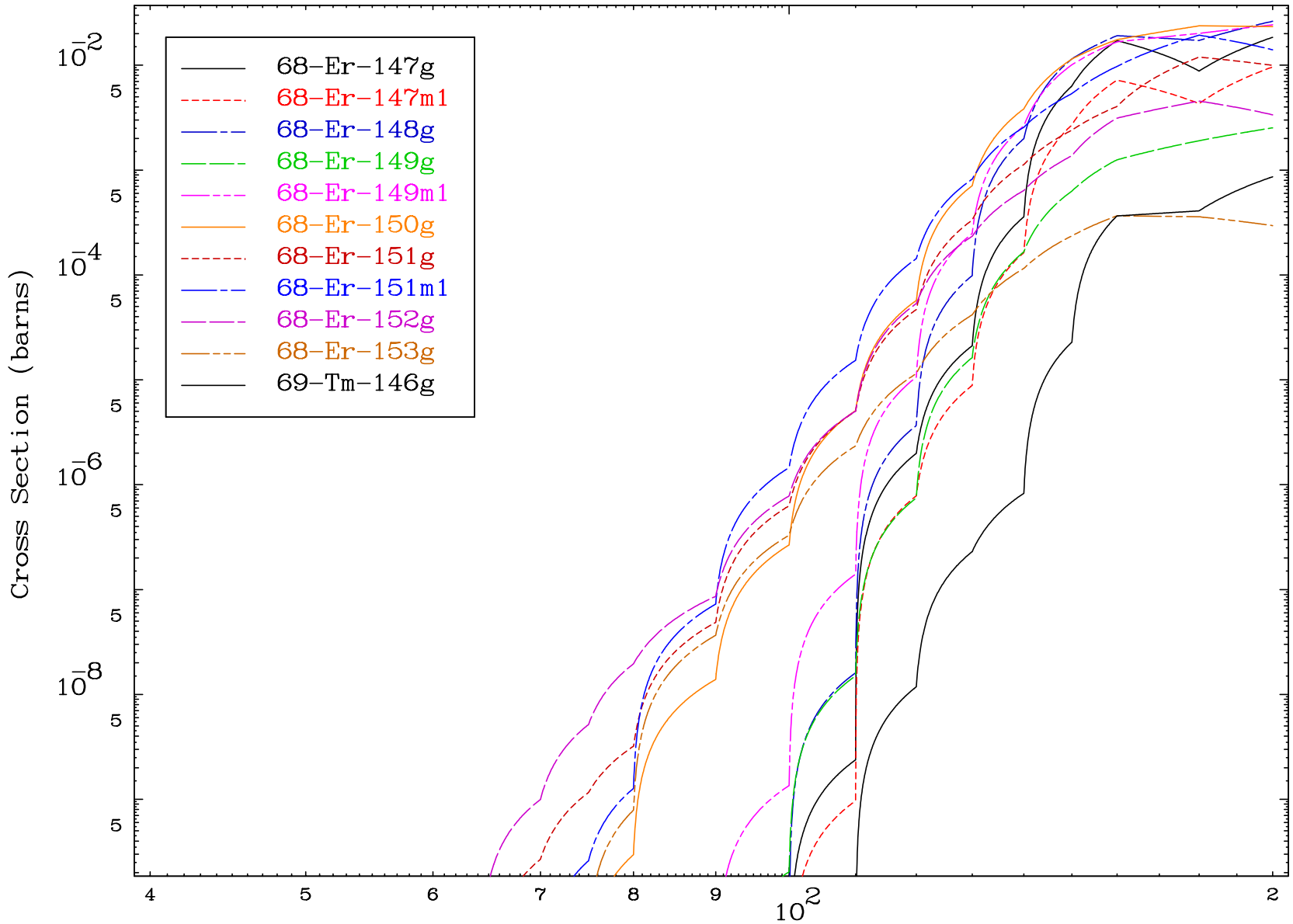
(α,α) Levels
0 Kelvin Cross Sections

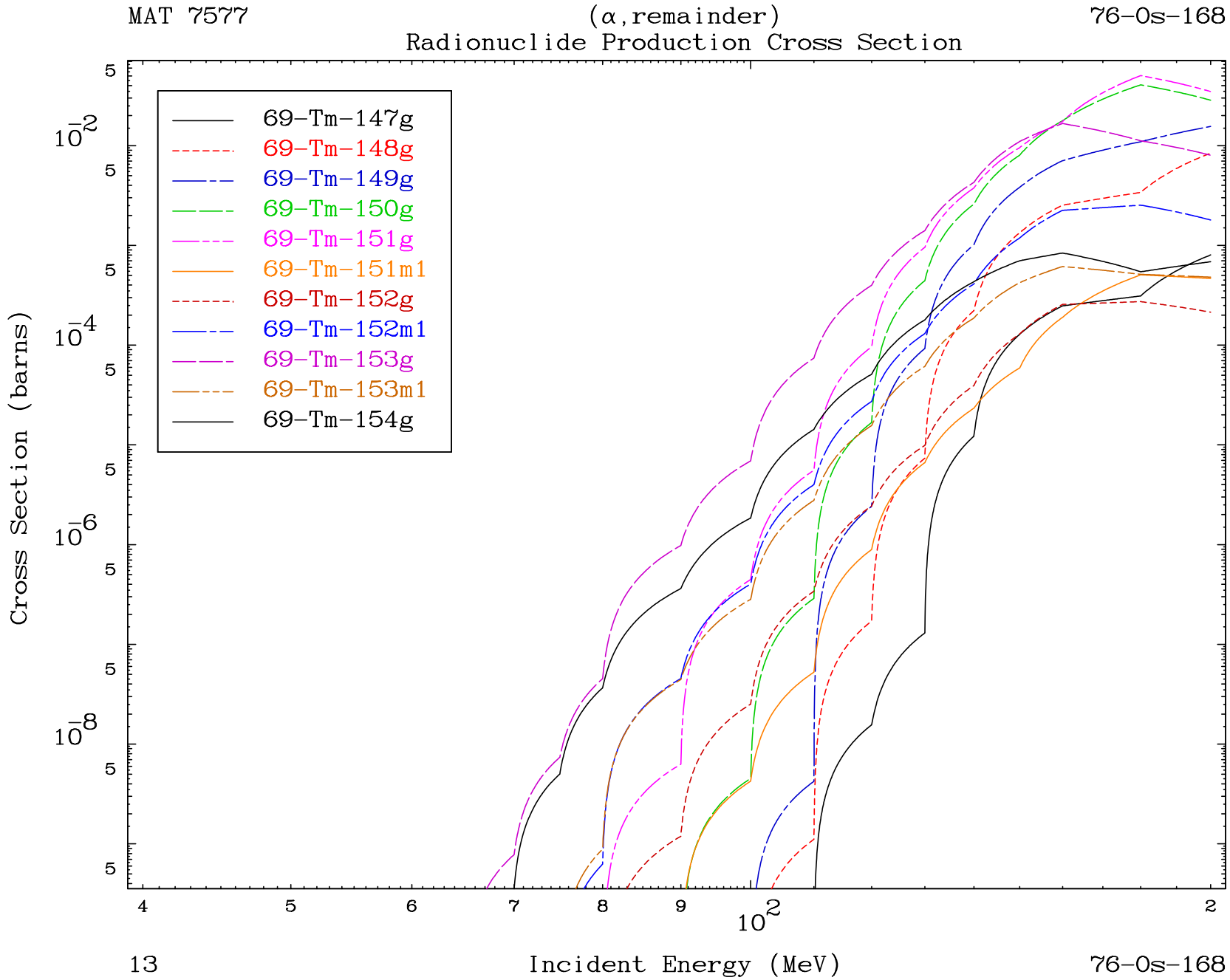


Radionuclide Production Cross Section

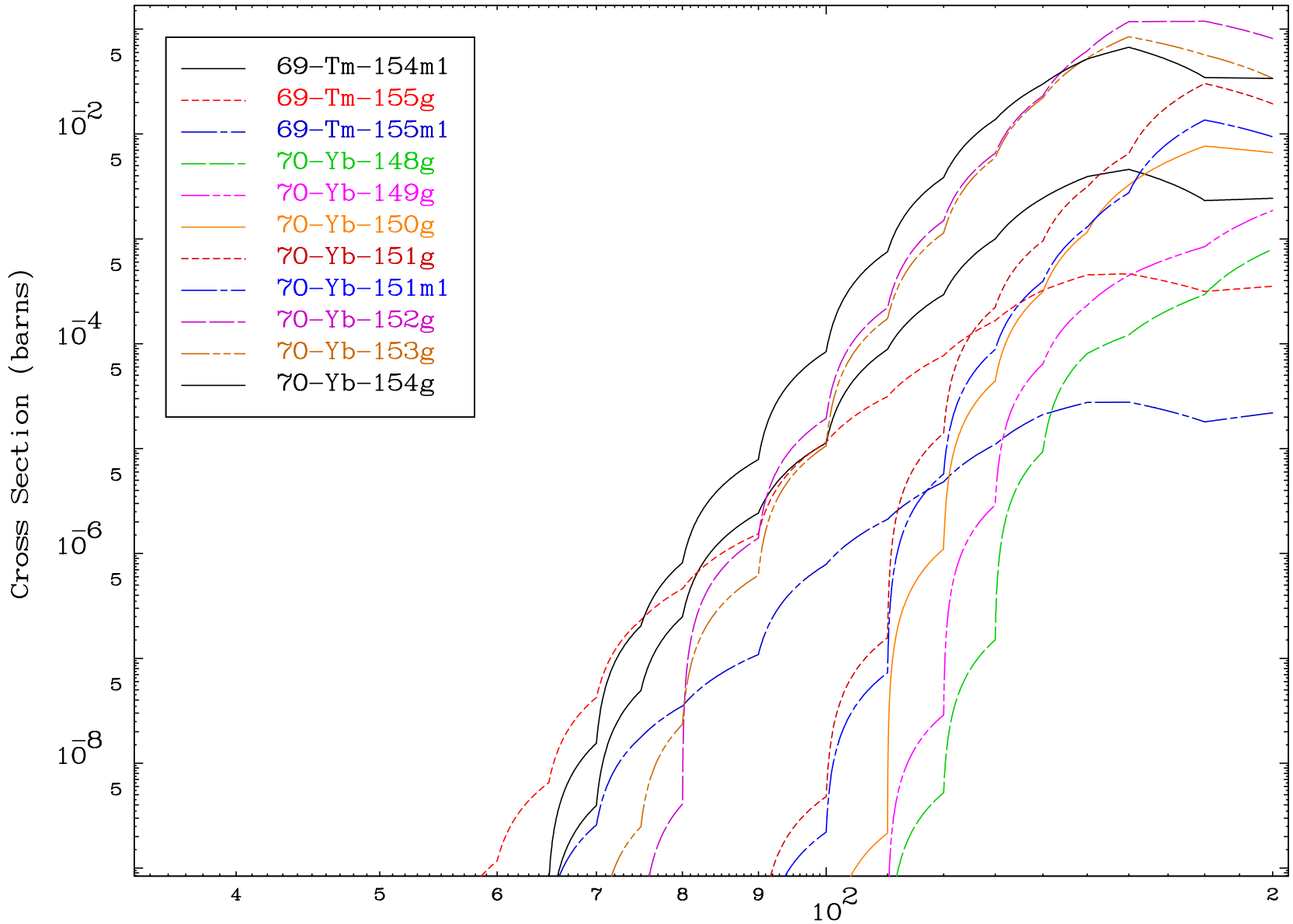


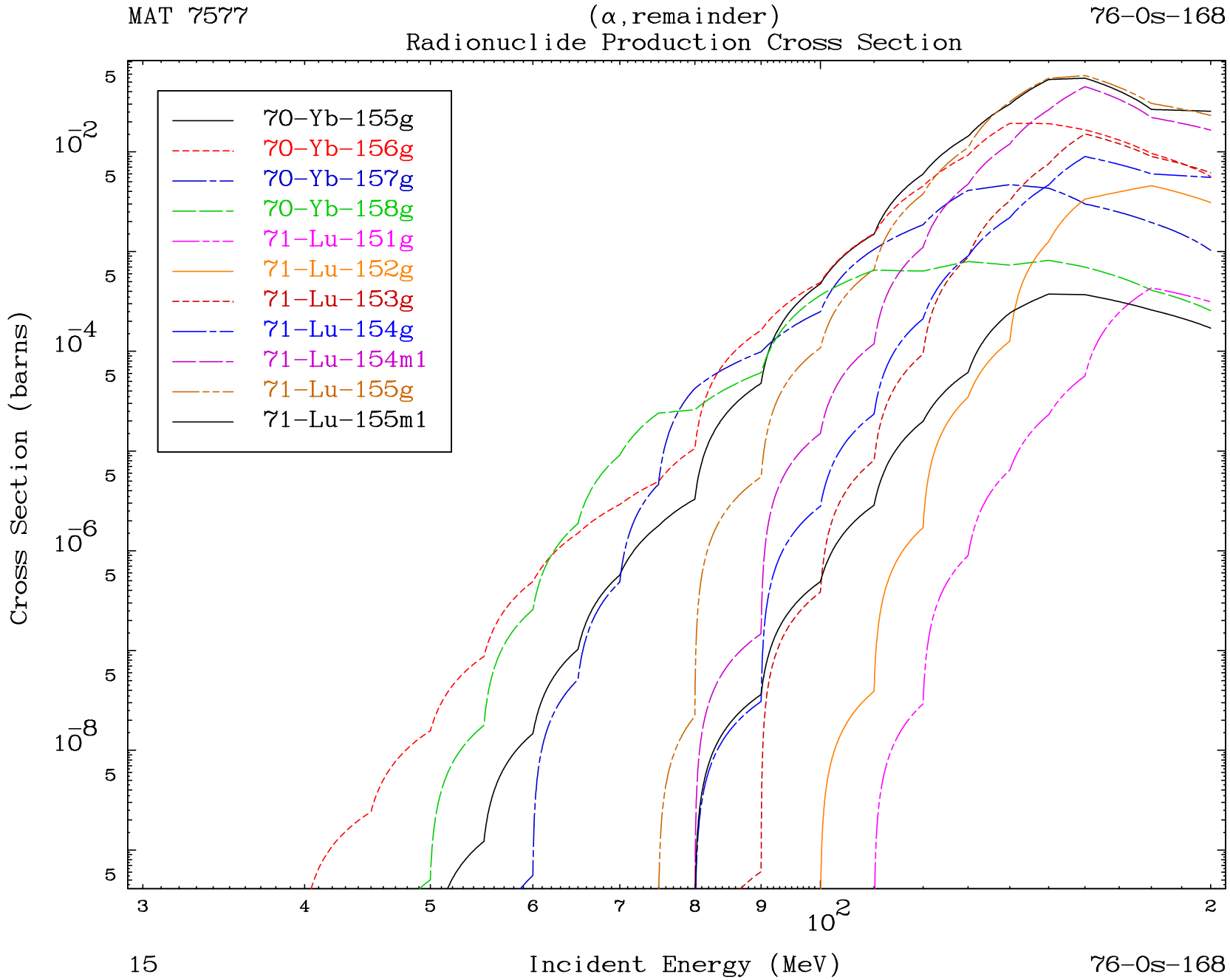
Radionuclide Production Cross Section

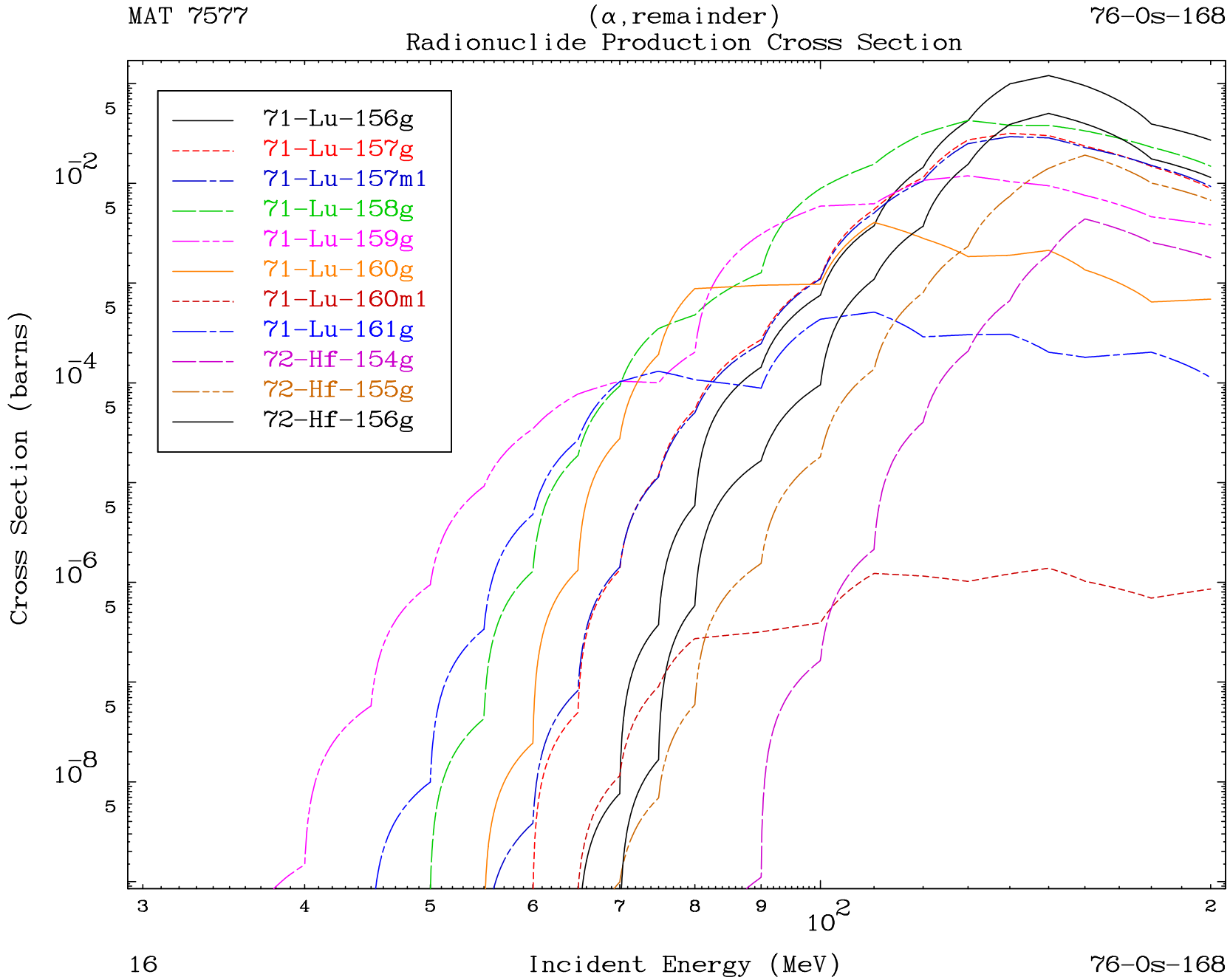


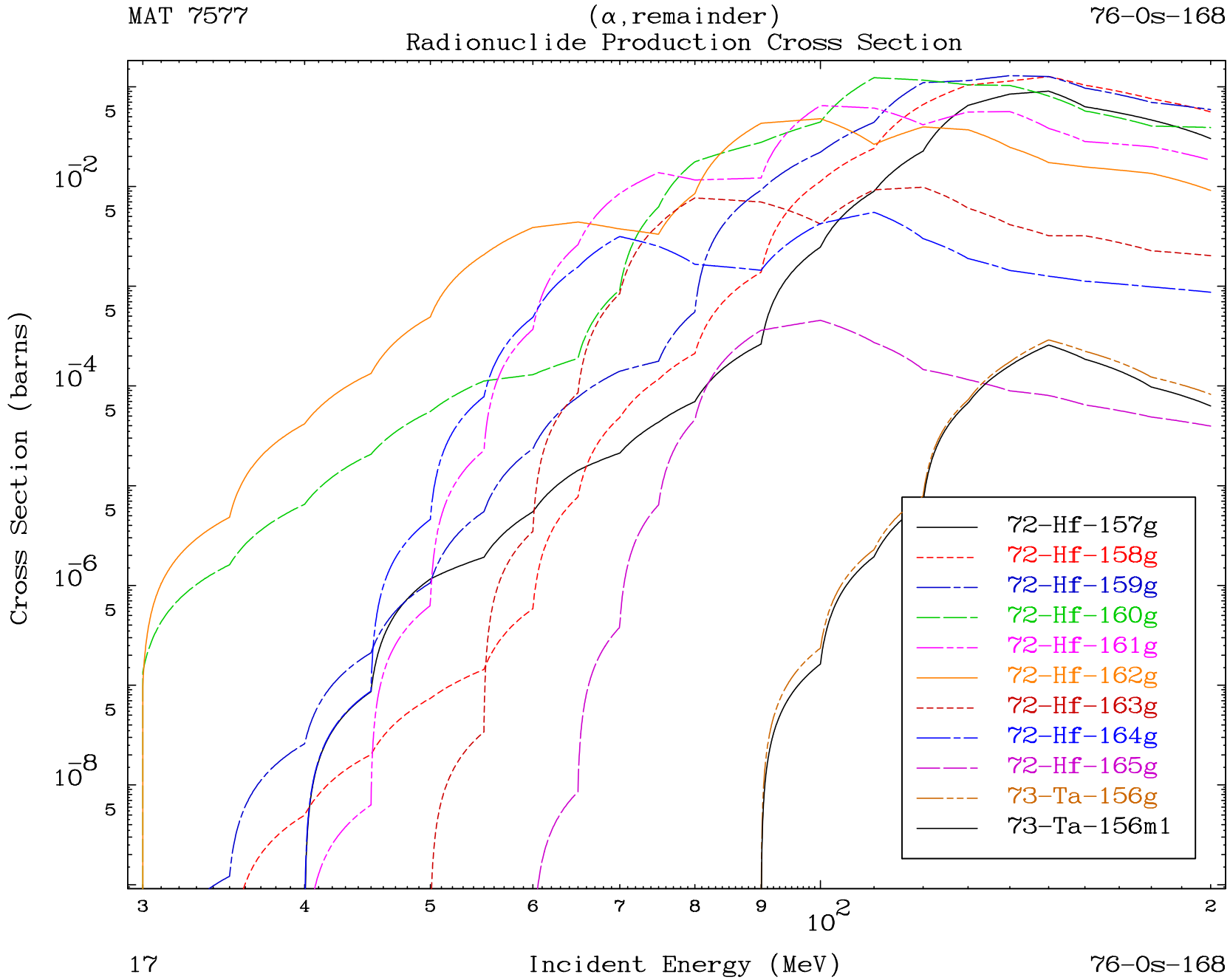

MAT 7577
(α,remainder)
76-0s-168
Radionuclide Production Cross Section
69-Tm-147g
69-Tm-148g
69-Tm-149g
69-Tm-150g
69-Tm-151g
69-Tm-151m1
69-Tm-152g
69-Tm-152m1
69-Tm-153g
69-Tm-153m1
69-Tm-154g
Cross Section (barns)
Incident Energy (MeV)
13
76-0s-168

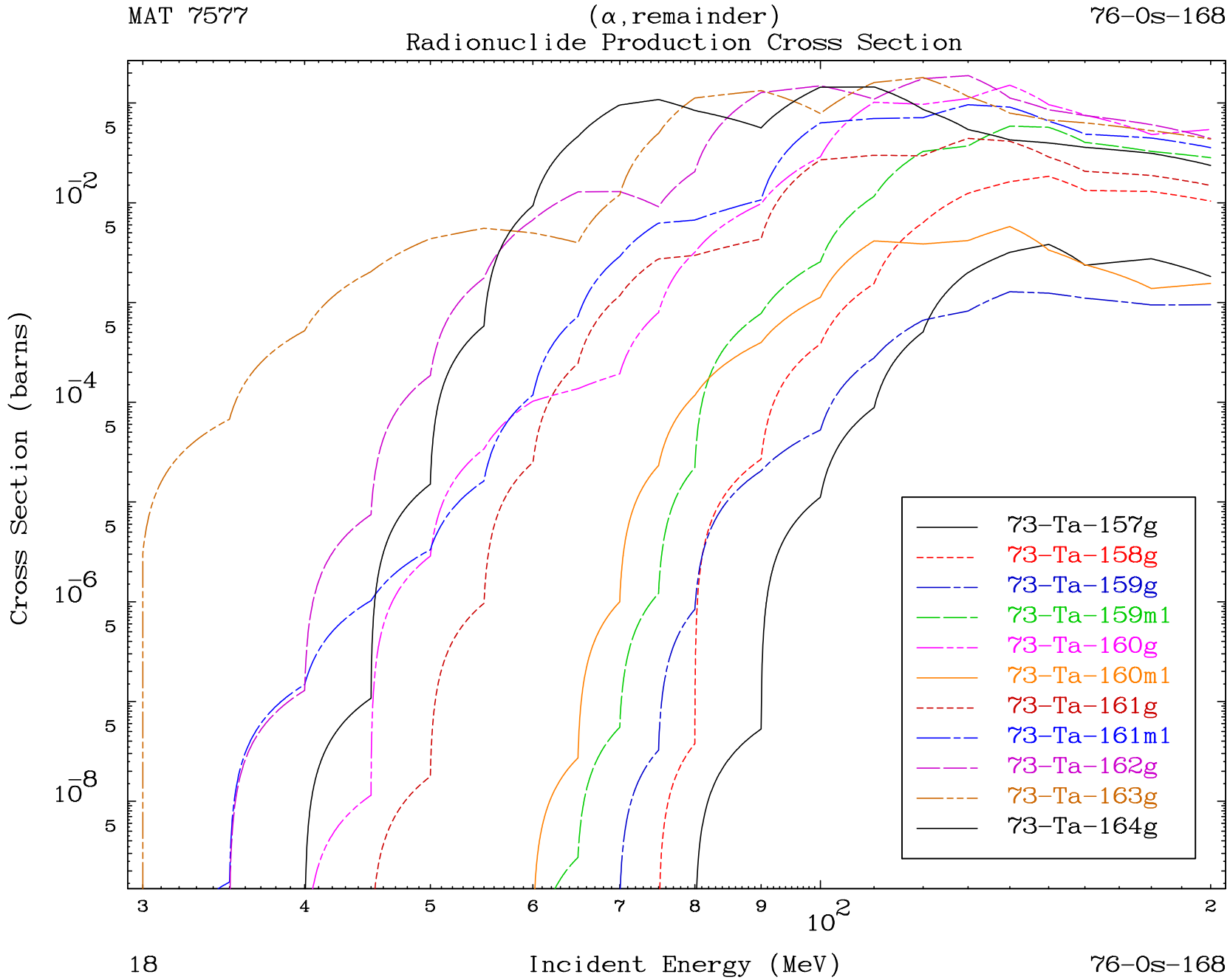
Radionuclide Production Cross Section

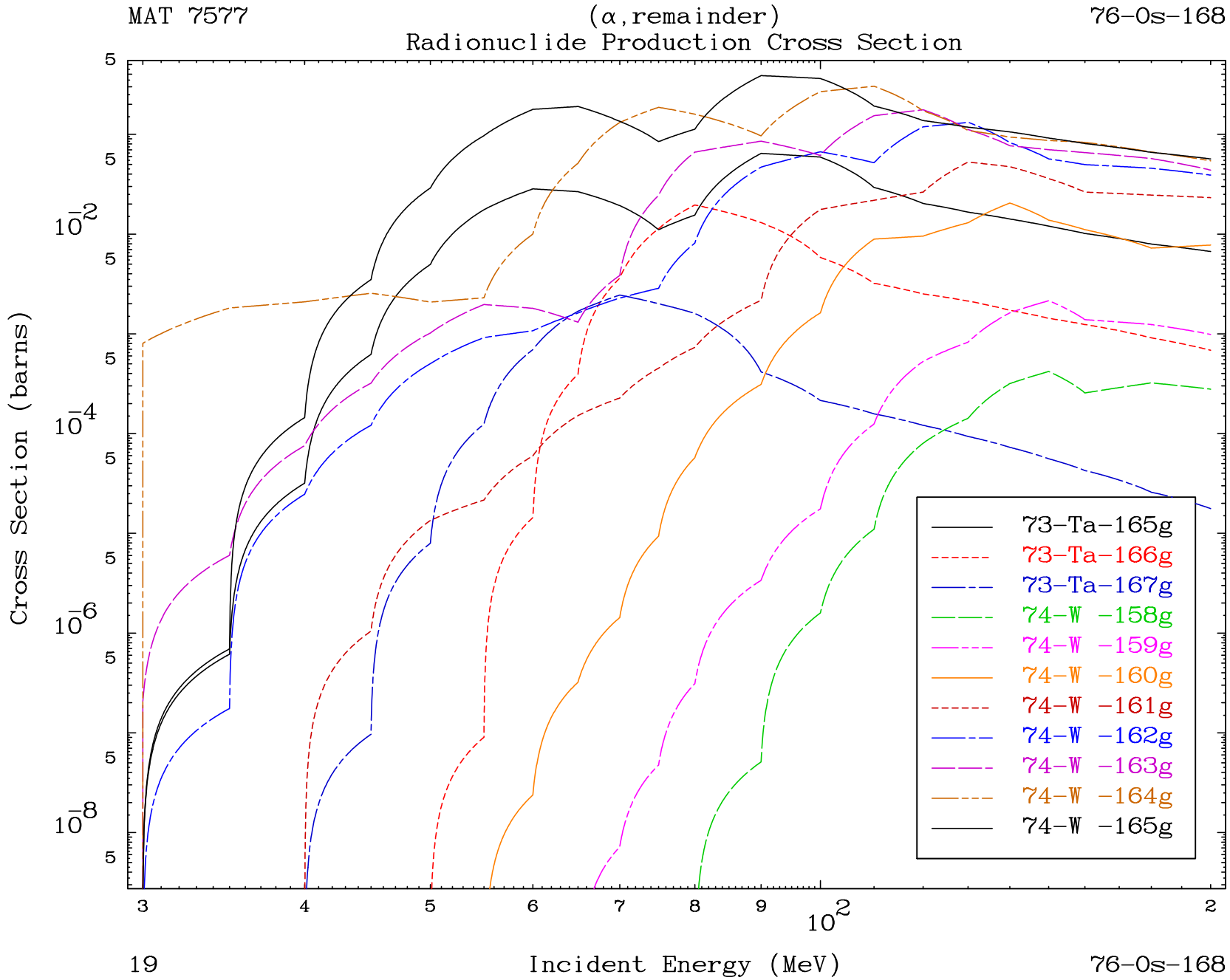


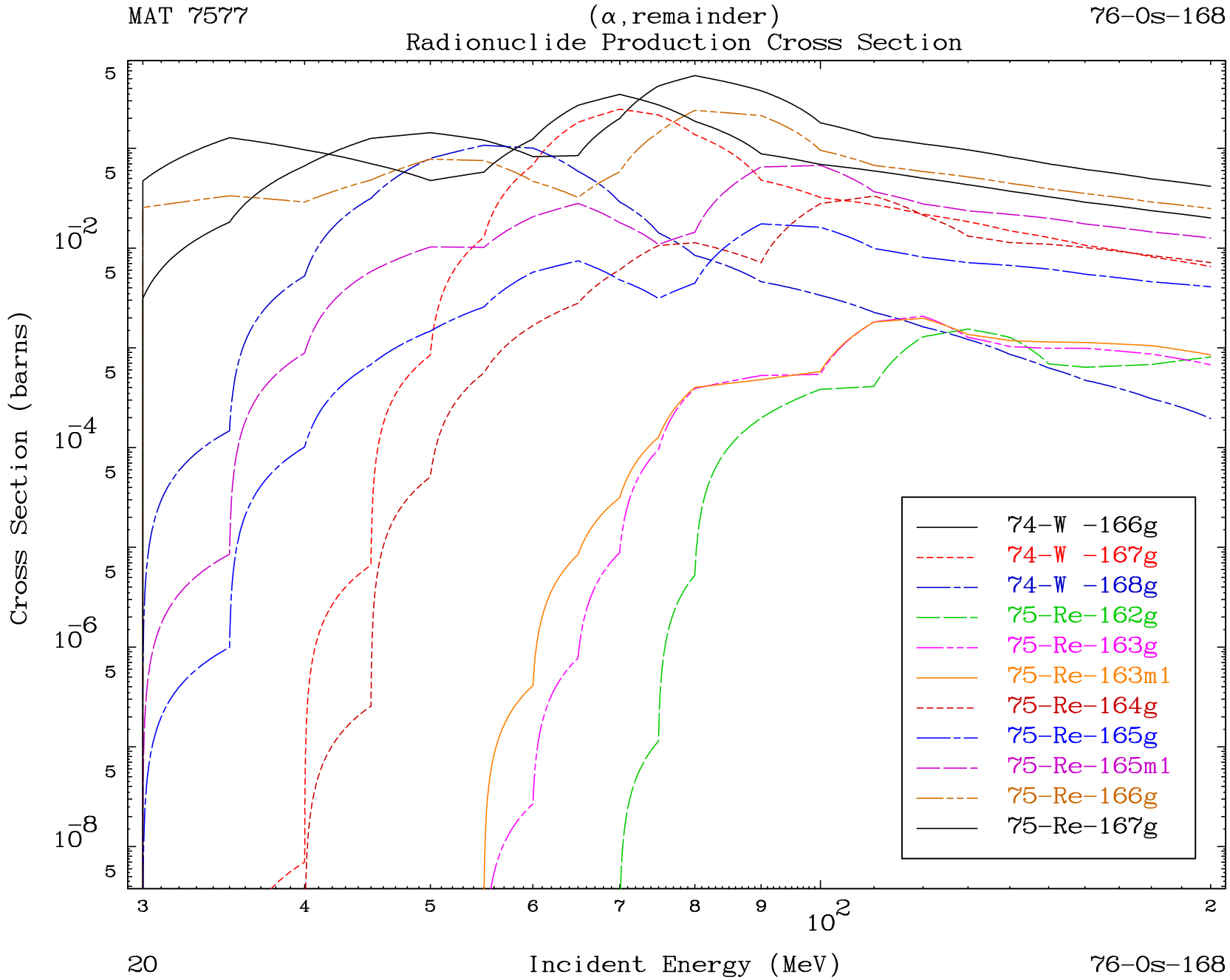

MAT 7577
(α,remainder)
76-Os-168
Radionuclide Production Cross Section
70-Yb-155g
70-Yb-156g
70-Yb-157g
70-Yb-158g
71-Lu-151g
71-Lu-152g
71-Lu-153g
71-Lu-154g
71-Lu-154m1
71-Lu-155g
71-Lu-155m1
Cross Section (barns)
Incident Energy (MeV)
15
76-Os-168

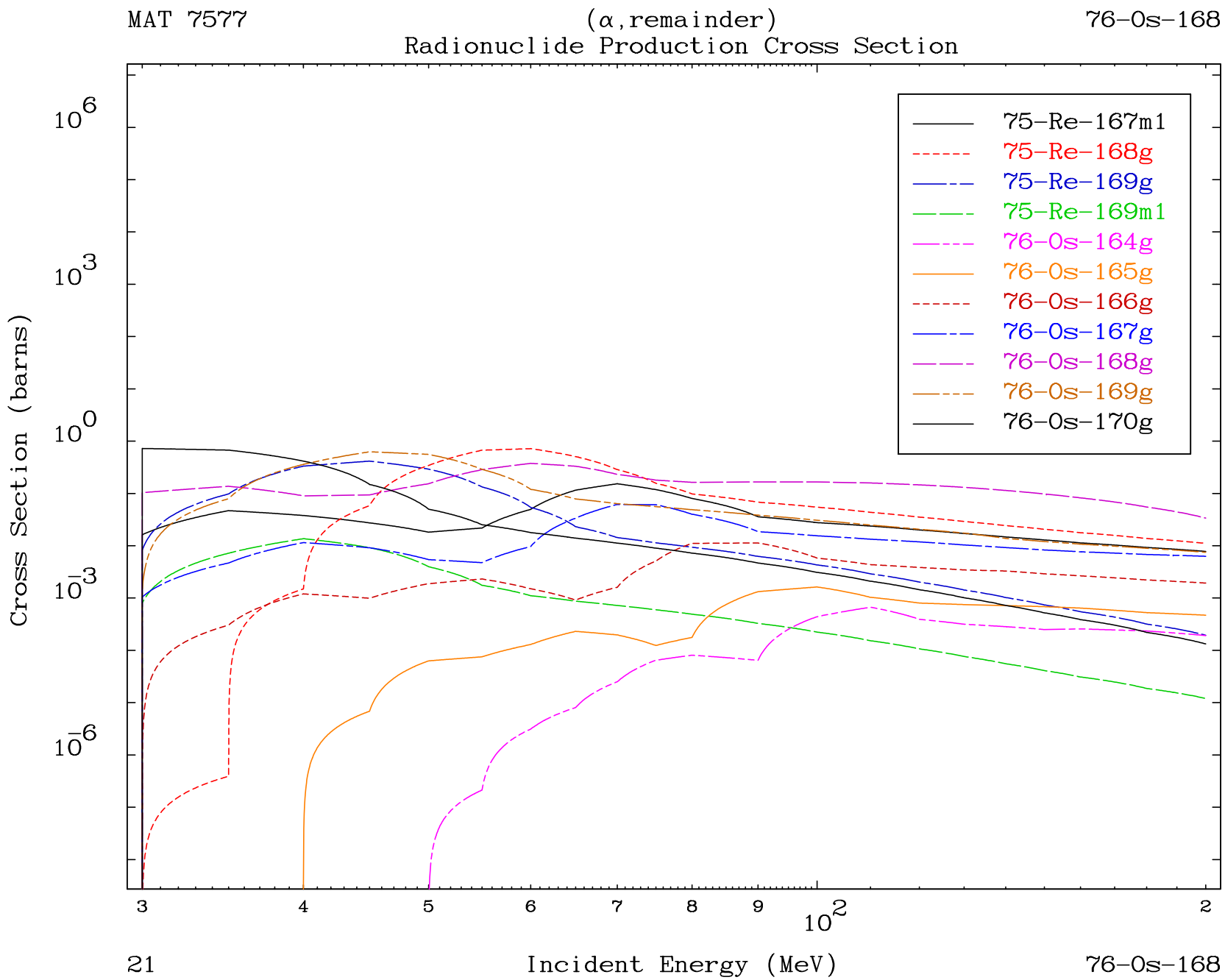

MAT 7577
(α,remainder)
76-Os-168
Radionuclide Production Cross Section
71-Lu-156g
71-Lu-157g
71-Lu-157m1
71-Lu-158g
71-Lu-159g
71-Lu-160g
71-Lu-160m1
71-Lu-161g
72-Hf-154g
72-Hf-155g
72-Hf-156g
Cross Section (barns)
Incident Energy (MeV)
16
76-Os-168

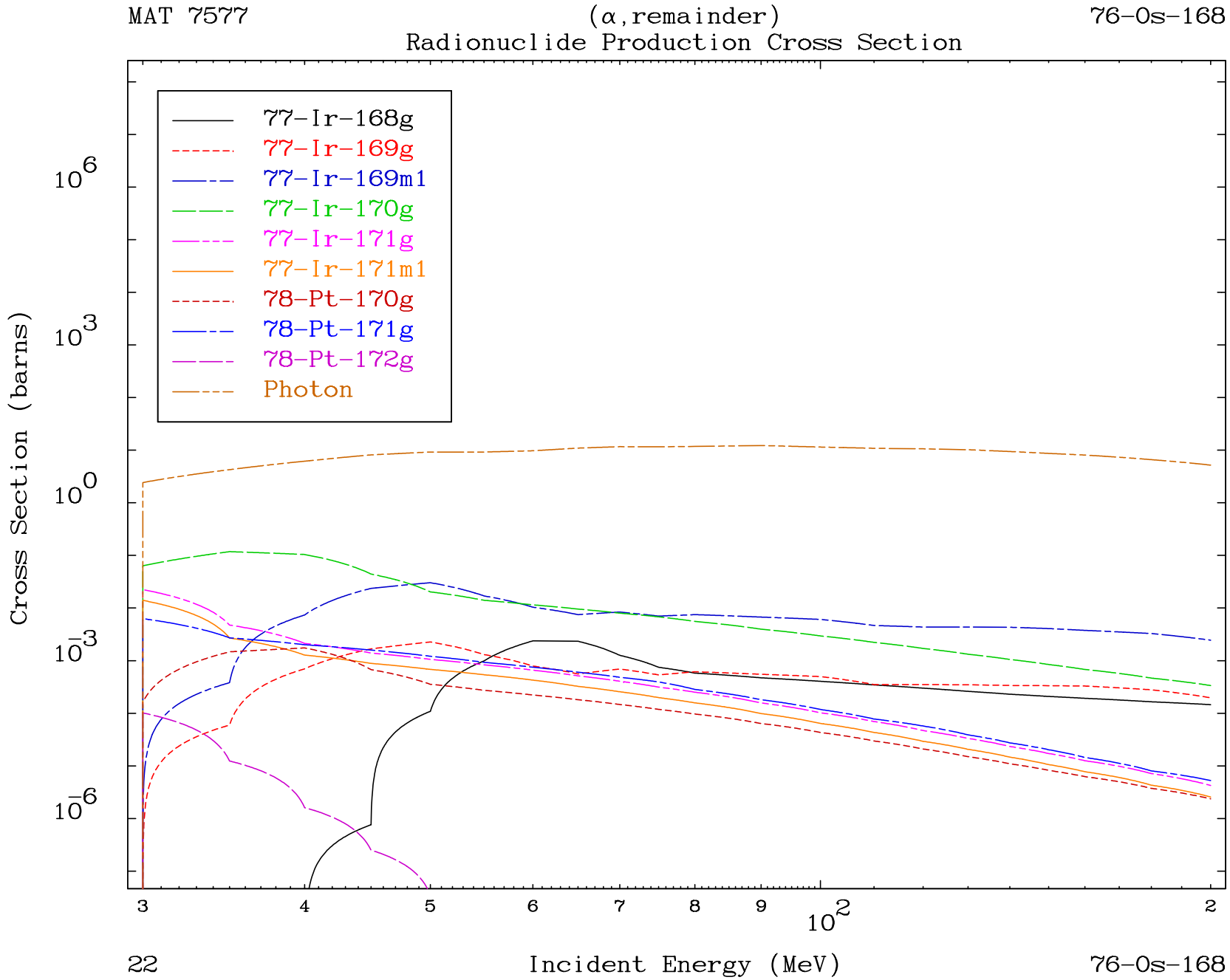

MAT 7577
(α,remainder)
Radionuclide Production Cross Section
76-Os-168
Cross Section (barns)
Incident Energy (MeV)
17
76-Os-168
72-Hf-157g
72-Hf-158g
72-Hf-159g
72-Hf-160g
72-Hf-161g
72-Hf-162g
72-Hf-163g
72-Hf-164g
72-Hf-165g
73-Ta-156g
73-Ta-156m1

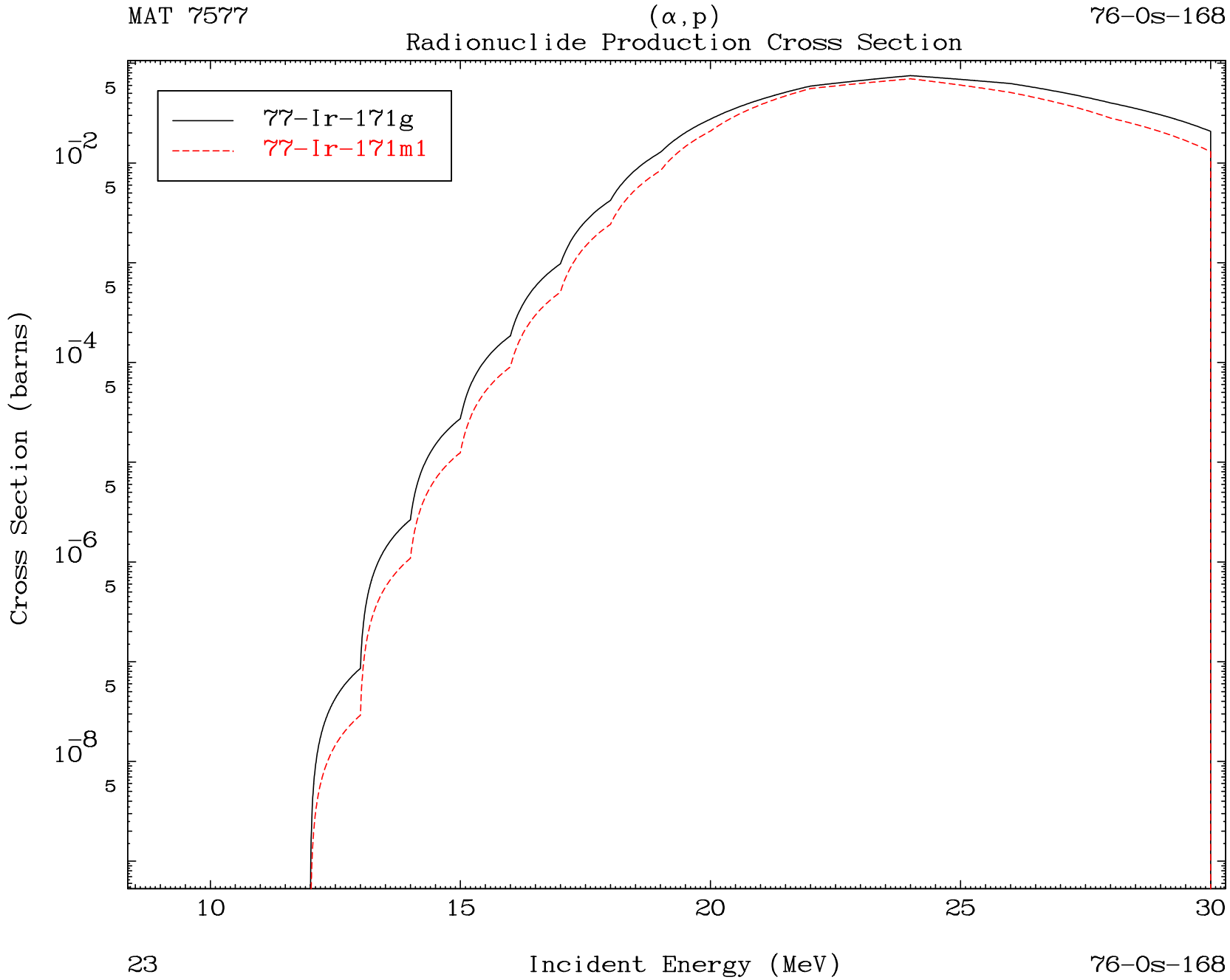

MAT 7577
(α,remainder)
Radionuclide Production Cross Section
76-Os-168
Cross Section (barns)
Incident Energy (MeV)
73-Ta-157g
73-Ta-158g
73-Ta-159g
73-Ta-159m1
73-Ta-160g
73-Ta-160m1
73-Ta-161g
73-Ta-161m1
73-Ta-162g
73-Ta-163g
73-Ta-164g
18
76-Os-168

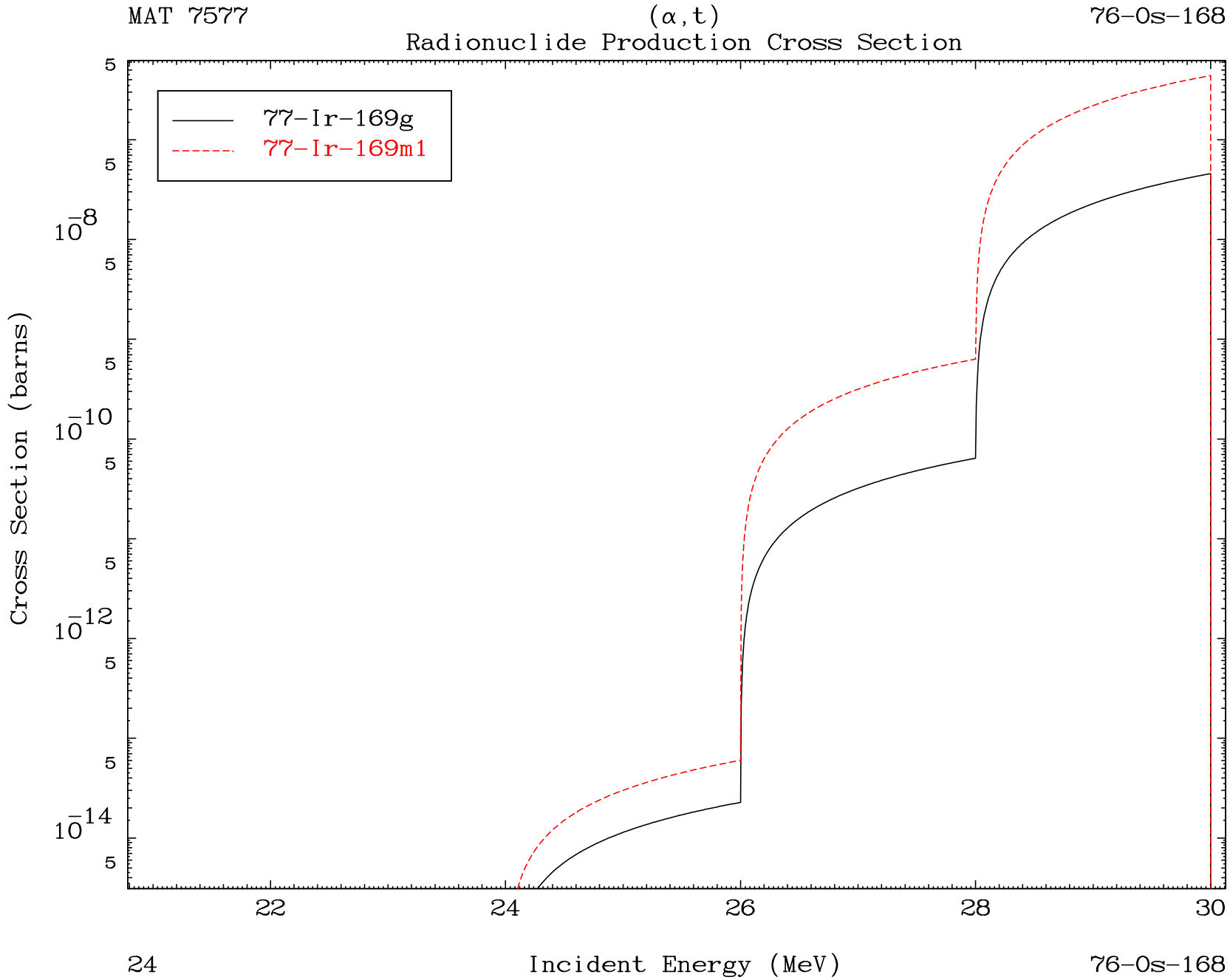

MAT 7577
(α,remainder)
76-Os-168
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
19
76-Os-168
73-Ta-165g
73-Ta-166g
73-Ta-167g
74-W -158g
74-W -159g
74-W -160g
74-W -161g
74-W -162g
74-W -163g
74-W -164g
74-W -165g

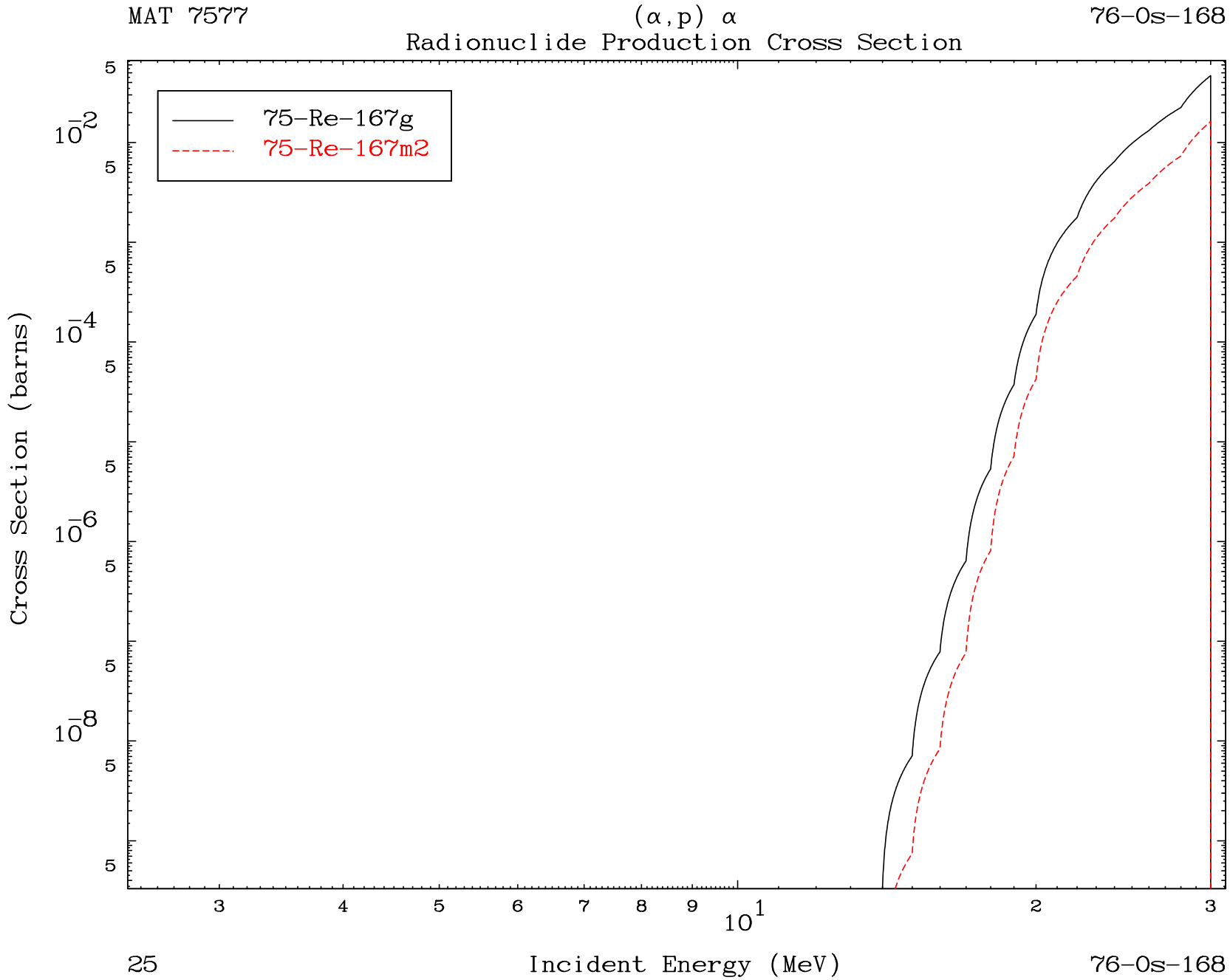

MAT 7577
(α,remainder)
Radionuclide Production Cross Section
76-Os-168
Cross Section (barns)
Incident Energy (MeV)
20
76-Os-168
74-W -166g
74-W -167g
74-W -168g
75-Re-162g
75-Re-163g
75-Re-163m1
75-Re-164g
75-Re-165g
75-Re-165m1
75-Re-166g
75-Re-167g


MAT 7577
(α,remainder)
Radionuclide Production Cross Section
76-Os-168
Cross Section (barns)
Incident Energy (MeV)
21
76-Os-168
75-Re-167m1
75-Re-168g
75-Re-169g
75-Re-169m1
76-Os-164g
76-Os-165g
76-Os-166g
76-Os-167g
76-Os-168g
76-Os-169g
76-Os-170g


MAT 7577
(α,remainder)
76-Os-168
Radionuclide Production Cross Section
77-Ir-168g
77-Ir-169g
77-Ir-169m1
77-Ir-170g
77-Ir-171g
77-Ir-171m1
78-Pt-170g
78-Pt-171g
78-Pt-172g
Photon
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
3
4
5
6
7
8
9
10^2
2
22
Incident Energy (MeV)
76-Os-168


MAT 7577
(α,p)
76-Os-168
Radionuclide Production Cross Section
77-Ir-171g
77-Ir-171m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10
15
20
25
30
23
Incident Energy (MeV)
76-Os-168


MAT 7577
(α,t)
76-Os-168
Radionuclide Production Cross Section
77-Ir-169g
77-Ir-169m1
Cross Section (barns)
Incident Energy (MeV)
24
76-Os-168
22
24
26
28
30
5
10⁻⁸
10⁻¹⁰
10⁻¹²
10⁻¹⁴


MAT 7577
(α,p) α
76-Os-168
Radionuclide Production Cross Section
75-Re-167g
75-Re-167m2
Cross Section (barns)
Incident Energy (MeV)
25
76-Os-168