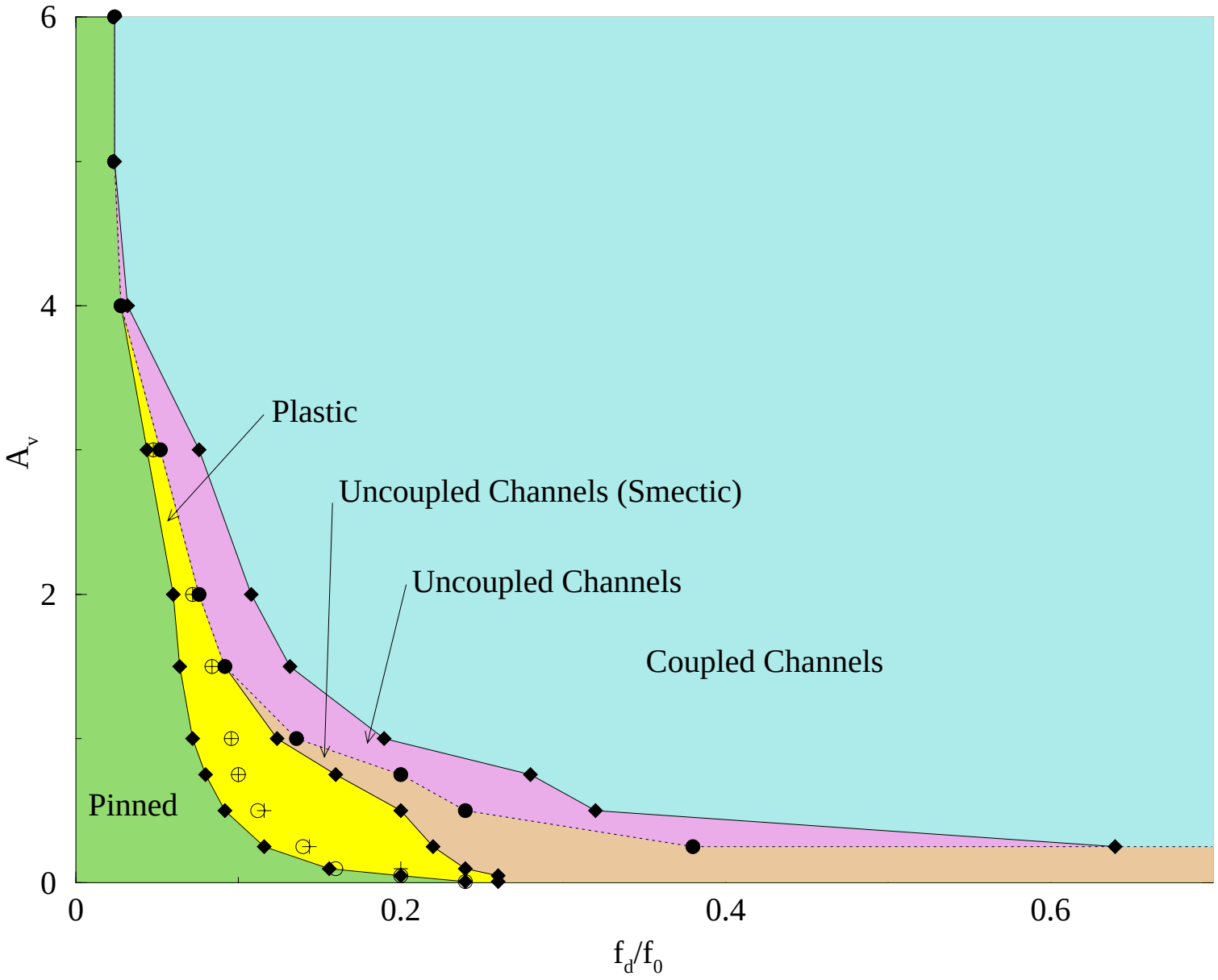Phase Diagram for $f_p=0.25f_0$