

$$\begin{array}{ccccc}
 C & & G(F(C)) & \xrightarrow{\psi_C} & C \\
 \downarrow f & & \downarrow G(F(C)) & & \downarrow f \\
 C' & & G(F(C')) & \xrightarrow{\psi'_C} & C'
 \end{array}$$