

$$\begin{array}{ccc}
 \Delta(\operatorname{Lim} F) & \xrightarrow{u} & F \\
 \Delta(h) \uparrow \text{dashed} & \nearrow f & \\
 \Delta(C) & &
 \end{array}
 \quad \Rightarrow \quad
 \begin{array}{ccc}
 \operatorname{Lim} F & \xrightarrow{u^i} & F(i) \\
 h \uparrow \text{dashed} & \nearrow f^i & \\
 C & &
 \end{array}$$