

$$\begin{array}{ccc}
 & \text{Lim } F & \\
 \sigma_i \swarrow & & \searrow \sigma_j \\
 F_i & \xrightarrow{\quad u \quad} & F_j
 \end{array}
 \qquad
 \begin{array}{ccc}
 & \text{Hom}_{\mathcal{C}}(C, \text{Lim } F) & \\
 \sigma_{i*} \swarrow & & \searrow \sigma_{j*} \\
 \text{Hom}_{\mathcal{C}}(C, F_i) & \xrightarrow{\quad u_* \quad} & \text{Hom}_{\mathcal{C}}(C, F_j)
 \end{array}$$