

$$\begin{array}{ccccc}
 & & \prod_{i \in \lambda} F(U_i) & & \\
 & \swarrow q_{k,\ell} & \downarrow \begin{smallmatrix} q \\ p \end{smallmatrix} & \searrow p_{k,\ell} & \\
 F(U_k \cap U_\ell) & \xleftarrow{\pi_{k,\ell}} & \prod_{i,j \in \lambda} F(U_i \cap U_j) & \xrightarrow{\pi_{k,\ell}} & F(U_k \cap U_\ell)
 \end{array}$$