

$$\begin{array}{ccc}
 & & X_\alpha \\
 & \overset{t_j}{\curvearrowright} & \downarrow \\
 s(j) & \xrightarrow{u_j} & X_\gamma \\
 \downarrow j & & \downarrow f_\gamma \\
 t(j) & \xrightarrow{d_j} & Y
 \end{array}$$

$$\begin{array}{ccccc}
 s(j) & \xrightarrow{t_j} & X_\alpha & & \\
 \downarrow j & & \downarrow & \searrow & \\
 t(j) & \longrightarrow & X_{\alpha+1} & & X_\gamma \\
 & \searrow d_j & \dashrightarrow f_{\alpha+1} & \searrow f_\gamma & \\
 & & & & Y
 \end{array}$$