

$$\begin{array}{ccccccc}
S & \subseteq & \mathcal{C} & \begin{array}{c} \xrightarrow{L} \\ \perp \\ \xleftarrow{R} \end{array} & \mathcal{D} & \supseteq & T \\
& & \downarrow Q_S & & \downarrow Q_T & & \\
& & \mathcal{C}[S^{-1}] & \begin{array}{c} \xrightarrow{\overline{L}} \\ \perp \\ \xleftarrow{\overline{R}} \end{array} & \mathcal{D}[T^{-1}] & & 
\end{array}$$