

$$\begin{array}{ccccc}
 & & V^V & \xlongequal{\quad} & V^V \\
 & & \downarrow & & \downarrow \\
 \bullet & \xrightarrow{\text{TCof}} & \bullet & \xrightarrow{\quad} & V^U \in \mathcal{U} \cap \mathcal{V} \\
 & & \downarrow \text{TFib} & & \downarrow \\
 \bullet & \xrightarrow{s} & \bullet & \xrightarrow{\quad} & V
 \end{array}$$