

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

A commutative diagram illustrating relationships between various mathematical objects and functors. The diagram consists of two rows of objects and two columns of functors. The top row contains two copies of  $V^V$  connected by an equality arrow. The bottom row contains  $V$ . The middle row contains  $V^U$ . The leftmost column contains two dots. The rightmost column contains  $V^U$  and  $V$ . The middle column contains two dots. The functors  $\text{TCof}$ ,  $s$ ,  $\text{TFib}$ , and the inclusion  $\in \mathcal{U} \cap \mathcal{V}$  are indicated by arrows.