

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

A commutative diagram illustrating relationships between various mathematical objects. The diagram consists of two rows of nodes, each represented by a black dot. The top row has three nodes, and the bottom row has three nodes. The first node in the top row is connected to the first node in the bottom row by a double vertical line. The second node in the top row is connected to the second node in the bottom row by a vertical dashed line labeled "TFib". The third node in the top row is connected to the third node in the bottom row by a vertical solid line. The first node in the top row is connected to the second node in the top row by a horizontal dashed line labeled "TCof". The second node in the top row is connected to the third node in the top row by a horizontal dashed line. The first node in the bottom row is connected to the second node in the bottom row by a horizontal solid line labeled "s". The second node in the bottom row is connected to the third node in the bottom row by a horizontal solid line. Above the second node in the top row is the expression  $V^V$ , and above the third node in the top row is the expression  $V^V$ , connected by a double horizontal line. To the right of the third node in the top row is the expression  $V^U \in \mathcal{U} \cap \mathcal{V}$ .