

$$\begin{array}{ccc}
 F_t(x) & \xrightarrow{\quad \mathcal{B}_t \quad} & F(x) \\
 \mathcal{B}_X \downarrow & \nearrow \text{---} & \downarrow \mathcal{B}_T \\
 A_t & \xrightarrow{\quad \mathcal{B}_T \quad} & A
 \end{array}$$

A commutative diagram illustrating a relationship between functions and sets. The top row shows a function  $F_t(x)$  mapping to  $F(x)$  via  $\mathcal{B}_t$ . The bottom row shows a function  $A_t$  mapping to  $A$  via  $\mathcal{B}_T$ . Vertical arrows labeled  $\mathcal{B}_X$  and  $\mathcal{B}_T$  connect  $F_t(x)$  to  $A_t$  and  $F(x)$  to  $A$ , respectively. A dashed diagonal arrow labeled  $\exists$  connects  $A_t$  to  $F(x)$ .