

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

A commutative diagram illustrating a relationship between functions and sets. The top row shows a function  $F_t(x)$  mapping to  $F(x)$  via a solid arrow labeled  $\mathcal{B}_t$ . The bottom row shows a function  $A_t$  mapping to  $A$  via a solid arrow labeled  $\mathcal{B}_T$ . A vertical solid arrow labeled  $\mathcal{B}_X$  points from  $F_t(x)$  down to  $A_t$ . Another vertical solid arrow labeled  $\mathcal{B}_T$  points from  $F(x)$  down to  $A$ . A dashed diagonal arrow points from  $A_t$  up to  $F(x)$ , labeled with the symbol  $\exists$  (existence).