

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