

$$\begin{array}{ccc} \begin{array}{c} \mathbb{F} \\ \infty \\ \mathbb{K} \\ \mathbb{N} \\ \Gamma \end{array} & \xrightarrow{\quad \Gamma_i \quad} & \begin{array}{c} \mathbb{F} \\ \infty \\ \mathbb{K} \\ \underbrace{\quad}_{2^N} \end{array} \\ \mathcal{H} = \underbrace{\mathcal{H} \Gamma_i \Gamma} & & \end{array}$$

$$\begin{array}{ccc} \begin{array}{c} \mathbb{F} \\ \infty \\ \mathbb{K} \\ \mathbb{N} \\ \Gamma \end{array} & & \begin{array}{c} \mathbb{F} \\ \infty \\ \mathbb{K} \\ \mathbb{N} \\ \Gamma \end{array} \\ \uparrow \mathcal{H} \quad \downarrow \mathcal{H} & \begin{array}{l} \mathcal{H} = \mathcal{H} \mathcal{H} \\ \mathcal{H} = \mathcal{H} \mathcal{H} \end{array} & \downarrow \mathcal{H} \\ \begin{array}{c} \mathbb{F} \\ \infty \\ \mathbb{K} \\ \mathbb{N} \\ \Gamma \end{array} & & \begin{array}{c} \mathbb{F} \\ \infty \\ \mathbb{K} \\ \mathbb{N} \\ \Gamma \end{array} \\ \mathcal{H} = \underbrace{\mathcal{H} \mathcal{H} \mathcal{H}} & & \end{array}$$