

$$\mathbb{K}_{\mathbb{N}} \triangleleft \Gamma \xrightarrow{\quad \Gamma_i \quad} \mathbb{K}_{2^N}$$

$$\mathcal{H} = \underbrace{\mathcal{H} \Gamma_i}_i \Gamma$$

$$\begin{array}{ccc} \mathbb{K}_{\mathbb{N}} \triangleleft \Gamma & & \\ \uparrow \scriptstyle \mathcal{H} & \searrow & \\ \mathbb{K}_{\mathbb{N}} \triangleleft \Gamma & & \mathbb{K}_{\mathbb{N}} \triangleleft \Gamma \times \mathcal{H} \\ \downarrow \scriptstyle \mathcal{H} & \nearrow & \\ \mathbb{K}_{\mathbb{N}} \triangleleft \Gamma & & \end{array}$$

$$\mathcal{H} = \underbrace{\mathcal{H} \mathcal{H}^{\mathcal{H}}}_{\mathcal{H}^{\mathcal{H}}} \mathcal{H}$$