

$$n \in \mathbb{N} \xrightarrow{\iota} \mathbb{K} \ni \iota^n$$

$$\mathbb{N} \times \mathbb{K} \times \mathbb{N} \xrightarrow{\iota} \mathbb{N} \times \mathbb{K} \times \mathbb{N} \xrightarrow{\iota} \mathbb{N} \times \mathbb{K} \times \mathbb{N}$$

$$\overline{\iota \times \iota}^n = \sum_{m \prec n} \iota^m \times \iota^n$$