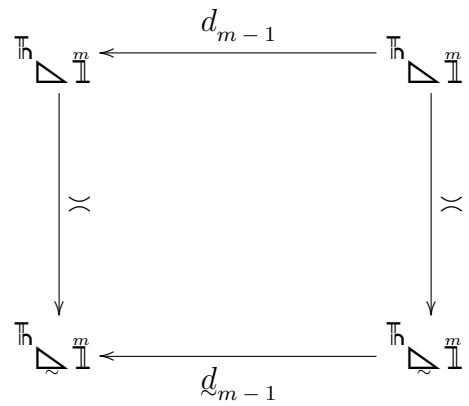


$$\mathbb{H} \triangleleft \mathbb{I}^{\mathbb{N}} = \sum_m \mathbb{H} \triangleleft \mathbb{I}^m \in \mathbb{N} \mathbb{K}$$

$$\mathbb{H} \triangleleft \mathbb{I}^m = \frac{{}_{1+m} \mathbb{H} \triangleleft \mathbb{I}}{\begin{bmatrix} \mathbb{H} \times \mathbb{H} \\ + \\ \mathbb{H} \times \mathbb{H} \end{bmatrix} \quad \mathbb{H} = \mathbb{H} \times \begin{bmatrix} \mathbb{H} \times \mathbb{H} \\ + \\ \mathbb{H} \times \mathbb{H} \end{bmatrix} \mathbb{H}}$$

$$\mathbb{H} \triangleleft \mathbb{I}^m = \frac{{}_m \mathbb{H} \triangleleft \mathbb{I}}{\begin{bmatrix} \mathbb{H} \times \mathbb{H} \\ + \\ 1 \\ + \\ \mathbb{H} \times \mathbb{H} \end{bmatrix} \quad \mathbb{H} = 0}$$



$$d(\mathbb{H} \triangleleft \mathbb{I}) = \mathbb{H} \triangleleft \mathbb{I} + \mathbb{H} \triangleleft \mathbb{I}$$