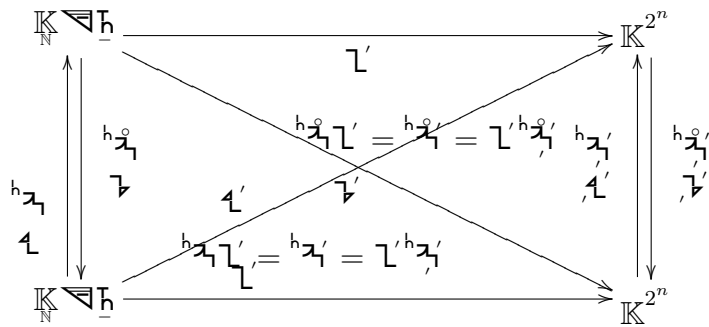


$$\mathbb{K}^n \xrightarrow{\mathcal{L}'} \mathbb{K}^{2^n}$$

$$\mathcal{L}' = \mathcal{L}' \mathcal{L}$$

$$\mathcal{L}' = \mathcal{L}' \mathcal{L}$$



$$\mathcal{L}' \mathcal{L}'^* = \mathcal{L}' \mathcal{L}' \mathcal{L} \mathcal{L}^* = \det \mathcal{L}' \mathcal{L}'^* \mathcal{L} \mathcal{L}^*$$

$$\mathcal{L}' = \begin{pmatrix} \mathcal{L}'^{h_{x'_1}} h_{x_1} \\ \mathcal{L}'^{\mathcal{L}}, \mathcal{L} \end{pmatrix}$$

$$\mathcal{L}' = \begin{pmatrix} \mathcal{L}'^{h_{x'_1}} h_{x_1} \\ \mathcal{L}'^{\mathcal{L}}, \mathcal{L} \end{pmatrix}$$

$$\mathcal{L}' \mathcal{L}' = \begin{cases} \mathcal{L}'^{h_{x'_1}} h_{x_1} = \mathcal{L}'^{h_{x'_1}} h_{x_1} \\ \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' \end{cases}$$

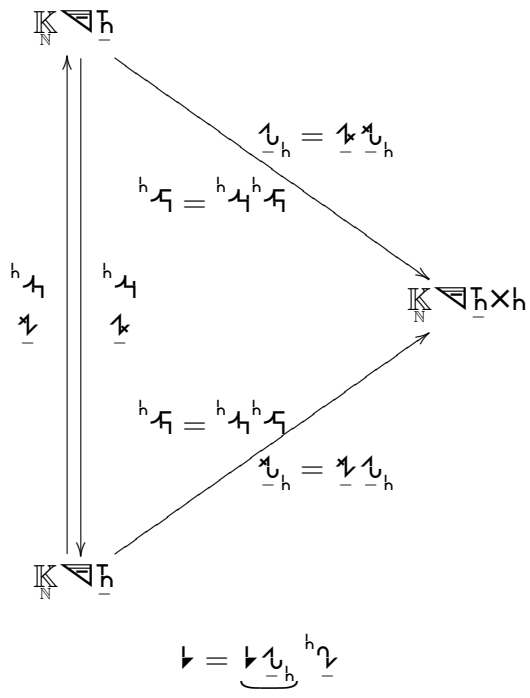
$$\mathcal{L}' \mathcal{L}' = \begin{cases} \mathcal{L}'^{h_{x'_1}} h_{x_1} = \mathcal{L}'^{h_{x'_1}} h_{x_1} \\ \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' \end{cases}$$

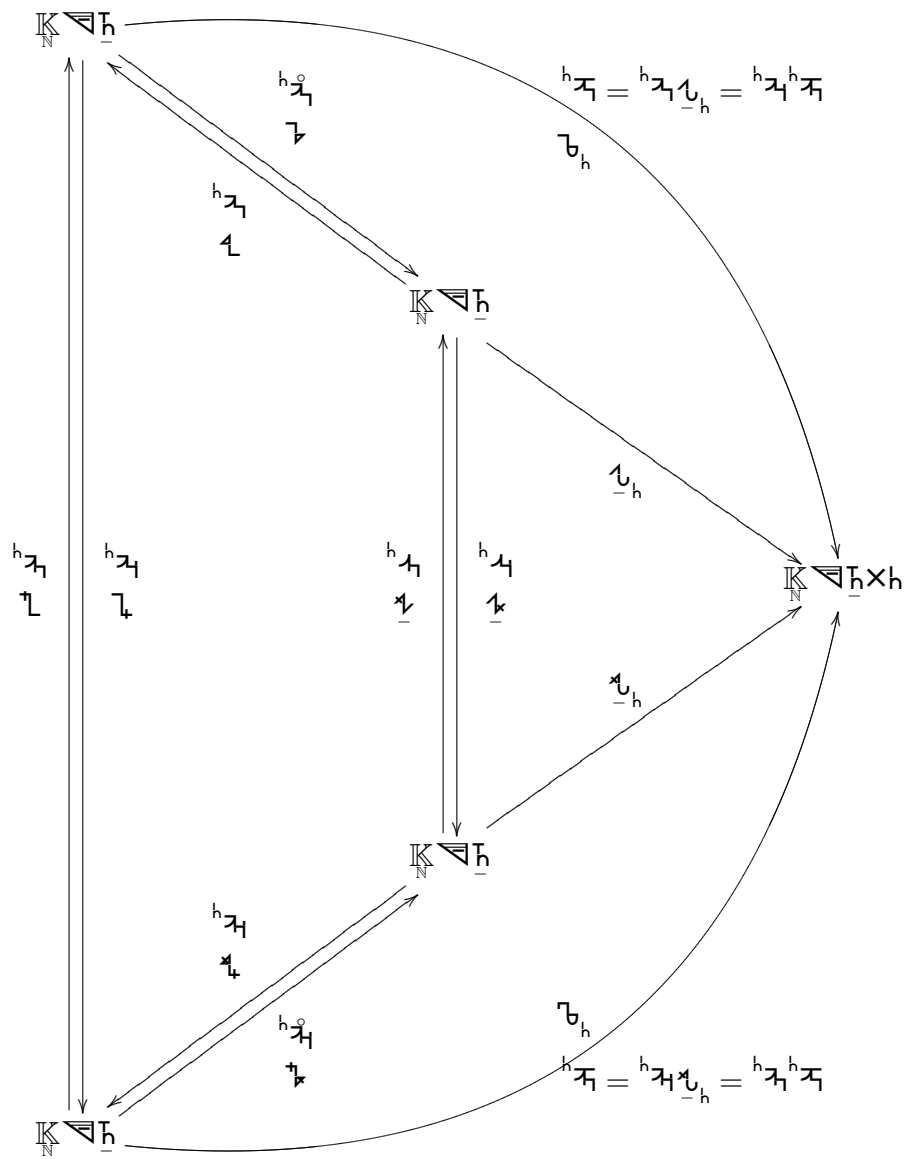
$$\begin{cases} \mathcal{L}'^{h_{x'_1}} = \mathcal{L}'^{\mathcal{L}} h_{x_1} = \mathcal{L}'^{h_{x_1}} \mathcal{L}' \\ \mathcal{L}'^{\mathcal{L}} = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' \end{cases}$$

$$\begin{cases} \mathcal{L}'^{h_{x'_1}} = \mathcal{L}'^{\mathcal{L}} h_{x_1} = \mathcal{L}'^{h_{x_1}} \mathcal{L}' \\ \mathcal{L}'^{\mathcal{L}} = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' \end{cases}$$

$$\begin{cases} \mathcal{L}'^{h_{x_1}} = \mathcal{L}'^{\mathcal{L}} h_{x_1} = \mathcal{L}'^{h_{x_1}} \mathcal{L}' \\ \mathcal{L}'^{\mathcal{L}} = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' \end{cases}$$

$$\begin{cases} \mathcal{L}'^{h_{x_1}} = \mathcal{L}'^{\mathcal{L}} h_{x_1} = \mathcal{L}'^{h_{x_1}} \mathcal{L}' \\ \mathcal{L}'^{\mathcal{L}} = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' = \mathcal{L}'^{\mathcal{L}}, \mathcal{L}' \end{cases}$$





$$\begin{aligned}
 \mathcal{L} &= \begin{cases} \mathcal{L}^{h_{\mathcal{A}} h_{\mathcal{A}}} \\ \mathcal{L}^{\tau_h h_{\mathcal{A}}} \end{cases} \\
 \begin{cases} \mathcal{L}^{h_{\mathcal{A}}} &= \mathcal{L}^{h_{\mathcal{A}} \tau_h} \\ \mathcal{L}^{\tau_h} &= \mathcal{L}^{\tau_h} \end{cases} \\
 \mathcal{L}^{\tau_h} &= \begin{cases} \mathcal{L}^{h_{\mathcal{A}} h_{\mathcal{A}}} \\ \mathcal{L}^{\tau_h} \end{cases}
 \end{aligned}$$

$$\begin{cases} \downarrow^{h_2} & = \downarrow^{h_2} \circ h_1 \\ \downarrow^{h_1} & = \downarrow^{h_1} \circ h_2 \end{cases}$$

$$\begin{cases} \downarrow^{h_2} & = \downarrow^{h_2} \circ h_1 \\ \downarrow^{h_1} & = \downarrow^{h_1} \circ h_2 \end{cases}$$

