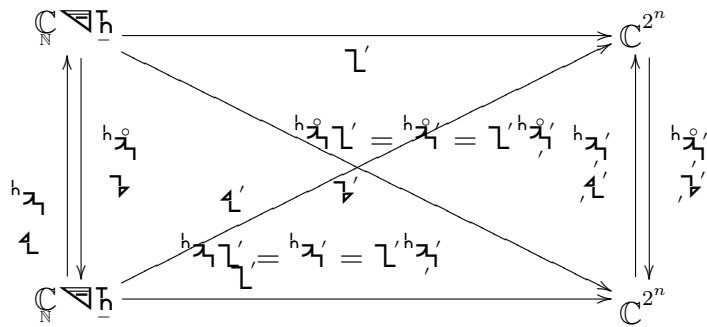


$$\mathbb{C}^{\mathbb{N}} \xrightarrow{\mathcal{L}'} \mathbb{C}^{2^n}$$

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

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



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

$$\mathcal{L} = \begin{pmatrix} \mathcal{L}' h_{2^i} & h_{2^i} \\ \mathcal{L}' \mathcal{L} & \mathcal{L} \end{pmatrix}$$

$$\mathcal{L}' = \begin{pmatrix} \mathcal{L}' h_{2^i} & h_{2^i} \\ \mathcal{L}' \mathcal{L} & \mathcal{L} \end{pmatrix}$$

$$\mathcal{L} \mathcal{L}' = \begin{pmatrix} \mathcal{L}' h_{2^i} h_{2^i} & = \mathcal{L}' h_{2^i} h_{2^i} \\ \mathcal{L}' \mathcal{L} \mathcal{L}' & = \mathcal{L}' \mathcal{L} \mathcal{L}' \end{pmatrix}$$

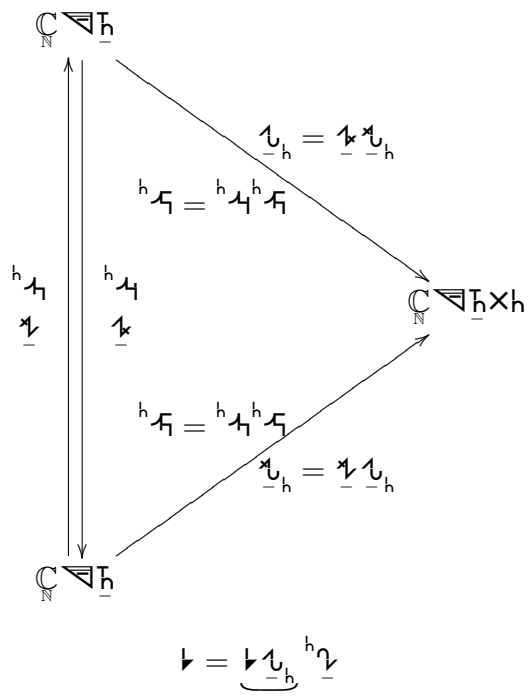
$$\mathcal{L}' \mathcal{L}' = \begin{pmatrix} \mathcal{L}' h_{2^i} h_{2^i} & = \mathcal{L}' h_{2^i} h_{2^i} \\ \mathcal{L}' \mathcal{L} \mathcal{L}' & = \mathcal{L}' \mathcal{L} \mathcal{L}' \end{pmatrix}$$

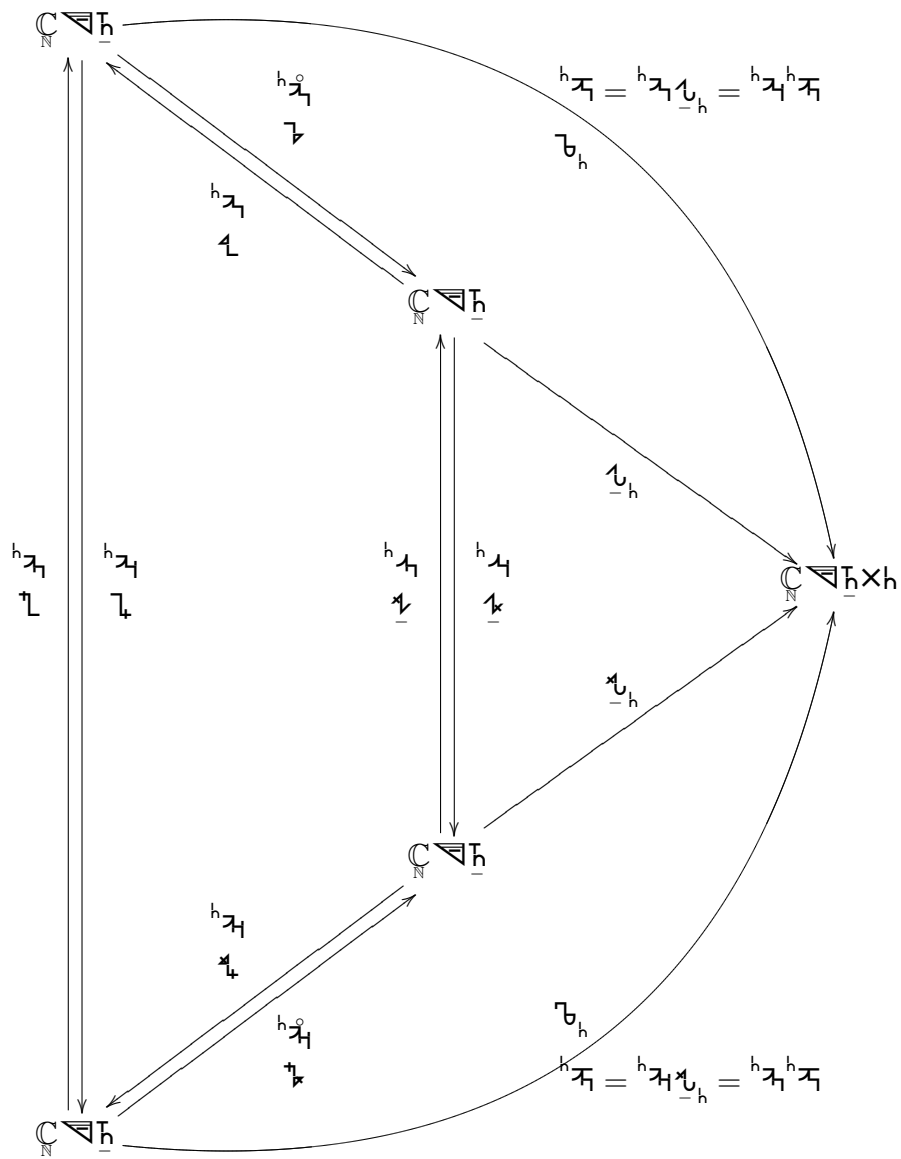
$$\begin{cases} \mathcal{L}' h_{2^i} & = \mathcal{L}' h_{2^i} = \mathcal{L}' \mathcal{L}' \\ \mathcal{L}' \mathcal{L}' & = \mathcal{L}' \mathcal{L}' = \mathcal{L}' \mathcal{L}' \end{cases}$$

$$\begin{cases} \mathcal{L}' h_{2^i} & = \mathcal{L}' h_{2^i} = \mathcal{L}' \mathcal{L}' \\ \mathcal{L}' \mathcal{L}' & = \mathcal{L}' \mathcal{L}' = \mathcal{L}' \mathcal{L}' \end{cases}$$

$$\begin{cases} \mathcal{L}' h_{2^i} & = \mathcal{L}' h_{2^i} = \mathcal{L}' \mathcal{L}' \\ \mathcal{L}' \mathcal{L}' & = \mathcal{L}' \mathcal{L}' = \mathcal{L}' \mathcal{L}' \end{cases}$$

$$\begin{cases} \mathcal{L}' h_{2^i} & = \mathcal{L}' h_{2^i} = \mathcal{L}' \mathcal{L}' \\ \mathcal{L}' \mathcal{L}' & = \mathcal{L}' \mathcal{L}' = \mathcal{L}' \mathcal{L}' \end{cases}$$





$$L = \begin{cases} \downarrow h_1 h_1 \\ \downarrow u_h h_1 \end{cases}$$

$$\begin{cases} \downarrow h_1 = \downarrow h_1 u_h \\ \downarrow u_h = \downarrow u_h \end{cases}$$

$$\downarrow u_h = \begin{cases} \downarrow h_1 h_1 \\ \downarrow u_h \end{cases}$$

$$\left\{ \begin{array}{l} \downarrow^{h_2} = \downarrow_{\mathcal{C}_b}^{h_2} \\ \downarrow^{h_1} = \downarrow_{\mathcal{C}_b}^{h_1} \end{array} \right.$$

$$\left\{ \begin{array}{l} \downarrow^{h_2} = \downarrow_{\mathcal{C}_b}^{h_2} \\ \downarrow^{h_1} = \downarrow_{\mathcal{C}_b}^{h_1} \end{array} \right.$$

