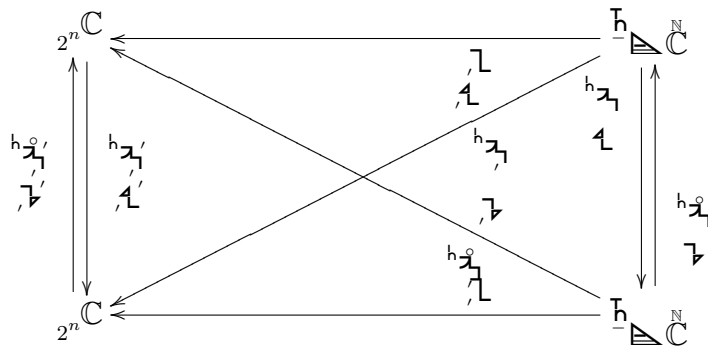


$$2^n \mathbb{C} \xleftarrow{\quad \mathcal{L} \quad} \mathbb{H} \triangleleft \mathbb{C}^{\mathbb{Z}}$$

$$\mathbf{1} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})}$$

$$\mathbf{1} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})}$$



$$\mathbf{1} = \begin{cases} h_{z_0}^{\mathcal{L}'} \underbrace{h_{z_1}^{\mathcal{L}} \mathbf{1}} \\ \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$

$$\mathbf{1} = \begin{cases} h_{z_1}^{\mathcal{L}'} \underbrace{h_{z_0}^{\mathcal{L}} \mathbf{1}} \\ \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$

$$\mathcal{L} \mathbf{1} = \begin{cases} = h_{z_0}^{\mathcal{L}'} \underbrace{h_{z_1}^{\mathcal{L}} \mathbf{1}} & h_{z_1}^{\mathcal{L}'} \underbrace{h_{z_0}^{\mathcal{L}} \mathbf{1}} \\ = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} & \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$

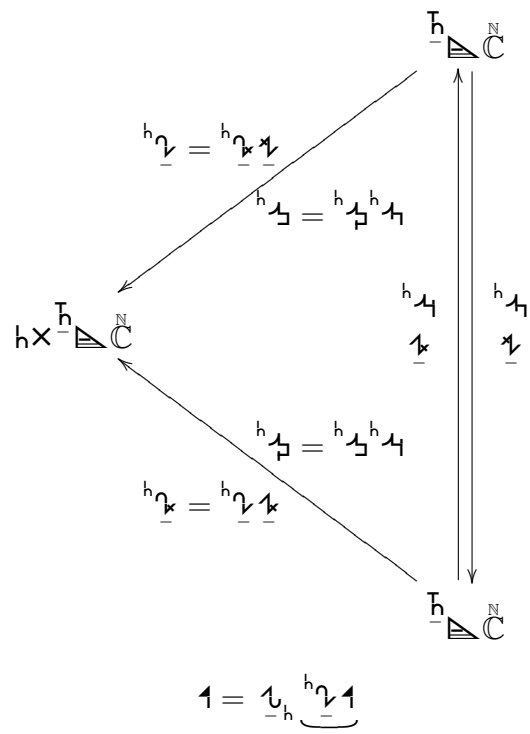
$$\mathcal{L} \mathbf{1} = \begin{cases} = h_{z_1}^{\mathcal{L}'} \underbrace{h_{z_0}^{\mathcal{L}} \mathbf{1}} & = h_{z_0}^{\mathcal{L}'} \underbrace{h_{z_1}^{\mathcal{L}} \mathbf{1}} \\ = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} & = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$

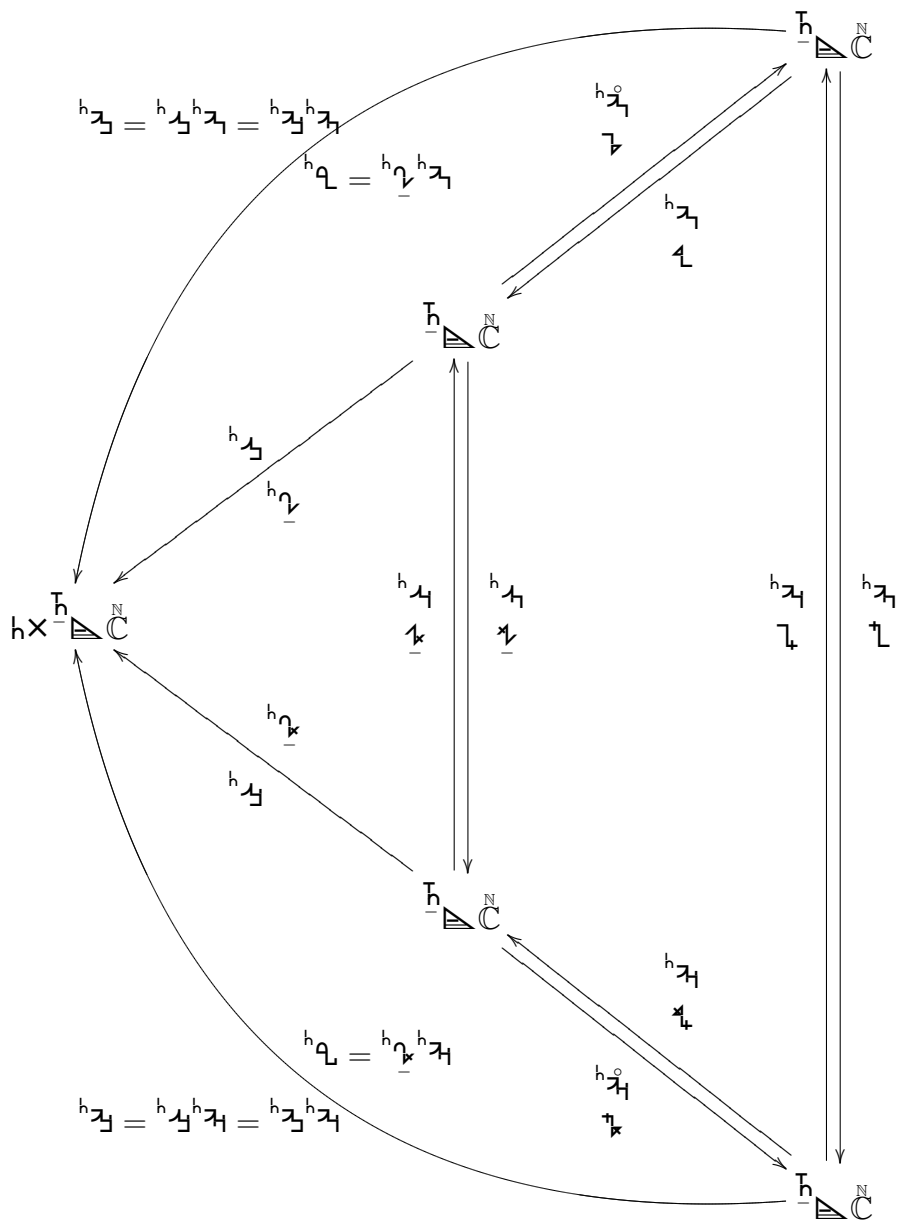
$$\begin{cases} h_{z_1}^{\mathcal{L}'} = \mathcal{L}' \underbrace{h_{z_0}^{\mathcal{L}} \mathbf{1}} = h_{z_0}^{\mathcal{L}'} \underbrace{(\mathcal{L} \mathbf{1})} \\ \mathcal{L} \mathbf{1} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$

$$\begin{cases} h_{z_0}^{\mathcal{L}'} = \mathcal{L}' \underbrace{h_{z_1}^{\mathcal{L}} \mathbf{1}} = h_{z_1}^{\mathcal{L}'} \underbrace{(\mathcal{L} \mathbf{1})} \\ \mathcal{L} \mathbf{1} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$

$$\begin{cases} h_{z_1}^{\mathcal{L}'} = \mathcal{L}' \underbrace{h_{z_0}^{\mathcal{L}} \mathbf{1}} = h_{z_0}^{\mathcal{L}'} \underbrace{(\mathcal{L} \mathbf{1})} \\ \mathcal{L} \mathbf{1} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$

$$\begin{cases} h_{z_0}^{\mathcal{L}'} = \mathcal{L}' \underbrace{h_{z_1}^{\mathcal{L}} \mathbf{1}} = h_{z_1}^{\mathcal{L}'} \underbrace{(\mathcal{L} \mathbf{1})} \\ \mathcal{L} \mathbf{1} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} = \mathcal{L}' \underbrace{(\mathcal{L} \mathbf{1})} \end{cases}$$





$$\mathbf{1} = \begin{cases} h_1 h_3 \\ \tau_h h_9 \end{cases}$$

$$\begin{cases} h_1 \mathbf{1} = \tau_h h_3 \\ \mathbf{1} \mathbf{1} = \tau_h h_9 \end{cases}$$

$$\begin{cases} h_1 \mathbf{1} = h_1 h_2 \\ \tau \mathbf{1} = \tau_h h_2 \end{cases}$$

$$\begin{cases} h_{31} = h_{21} h_{21} \\ h_{41} = h_{21} h_{21} \end{cases}$$

$$h_{21} = \begin{cases} h_{21} h_{21} \\ h_{21} h_{21} \end{cases}$$

