

$$\begin{array}{ccc} & \overline{h} & \\ & \updownarrow & \\ {}^h\mathfrak{z}_1 & & {}^h\overline{\mathfrak{z}}_1^{-1} \\ \mathfrak{z} & & \overline{\mathfrak{z}} \\ & \downarrow & \\ & \underline{h} & \end{array}$$

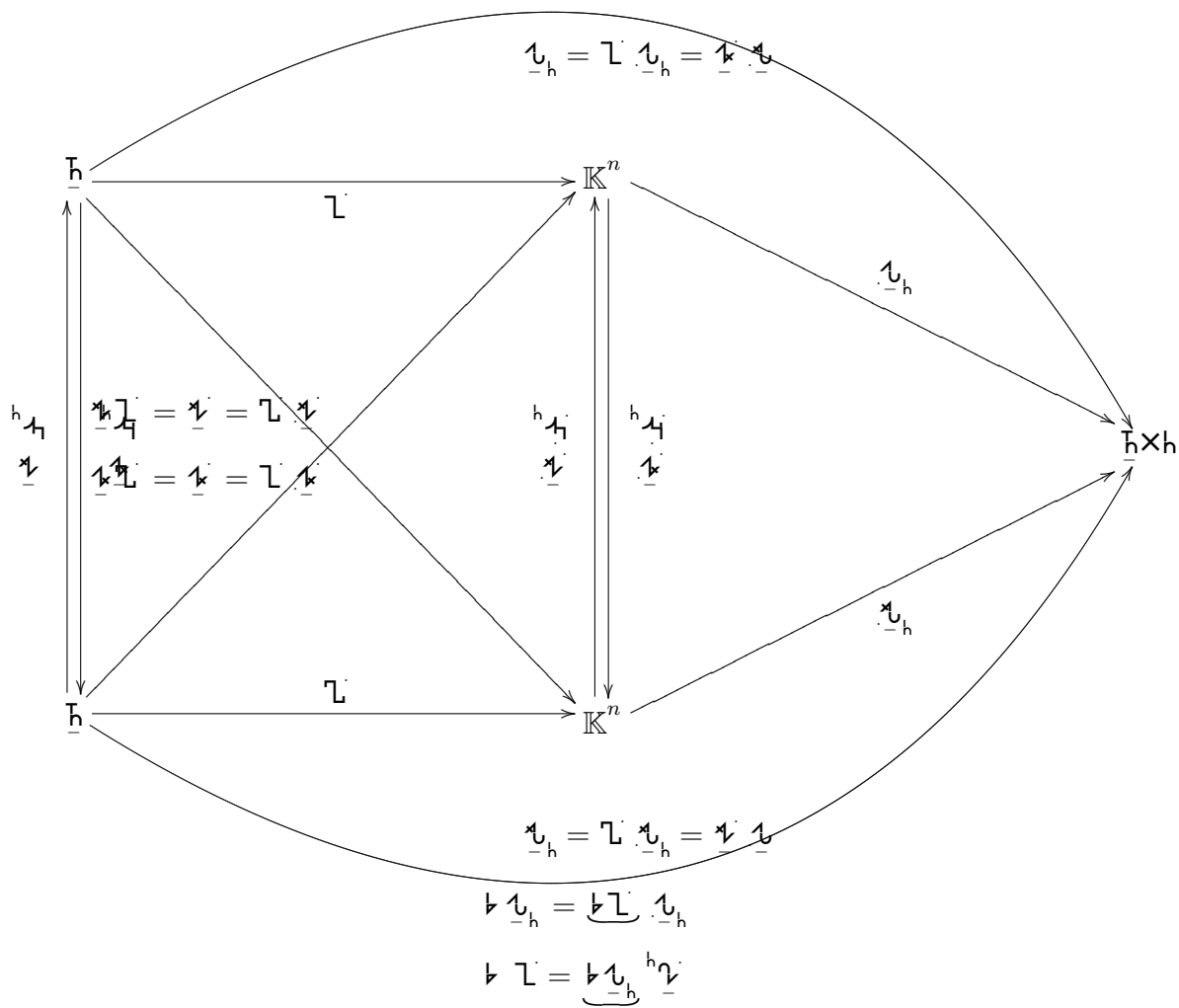
$$\mathfrak{b} = \left\{ \begin{array}{l} \underbrace{\mathfrak{z} \, {}^h\overline{\mathfrak{z}}_1^{-1} \, {}^h\mathfrak{z}_1}_{\mathfrak{z} \, \overline{\mathfrak{z}}} \\ \underbrace{\mathfrak{z} \, \overline{\mathfrak{z}}}_{\mathfrak{z}} \end{array} \right.$$

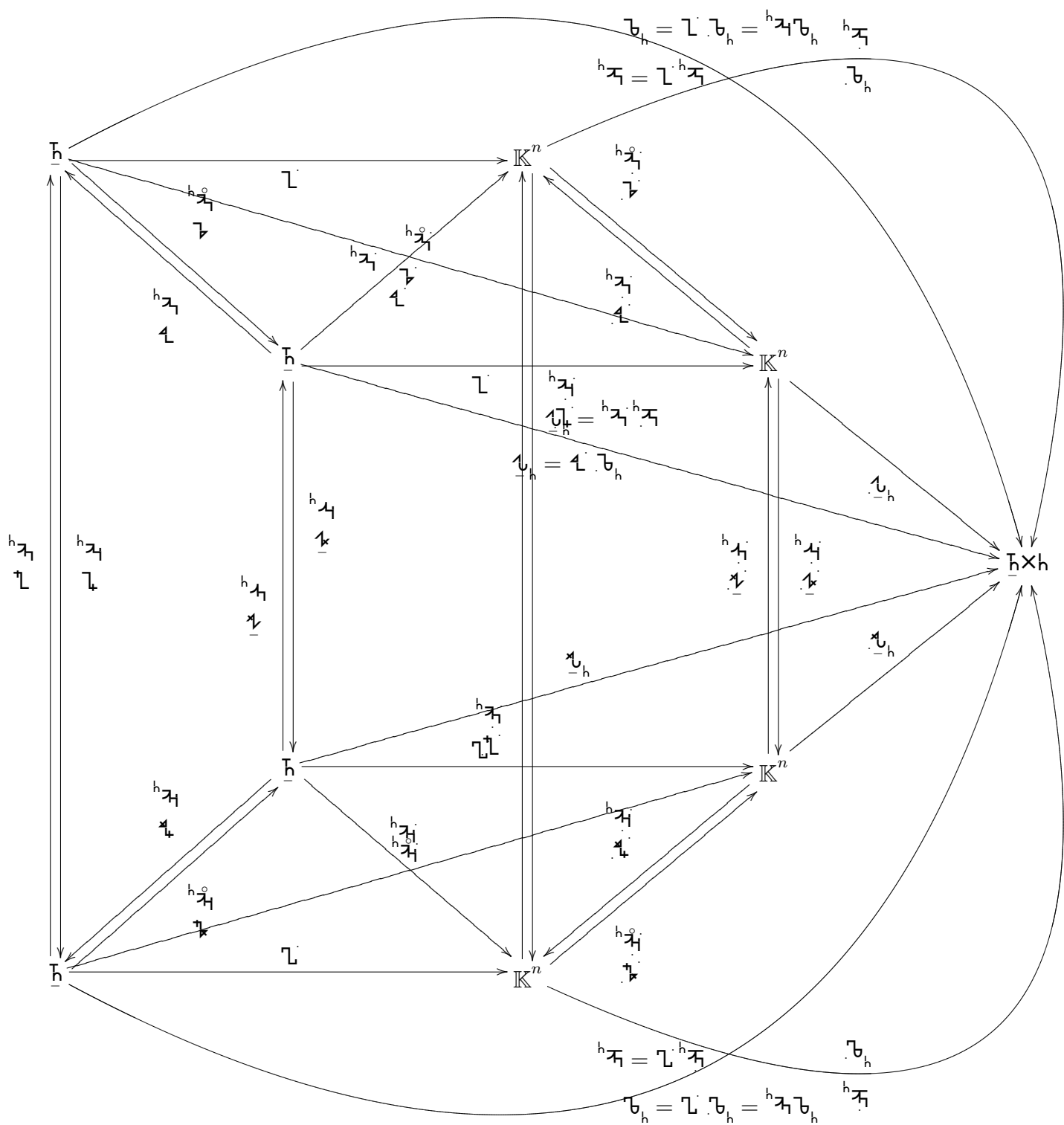
$$\overline{\mathfrak{b}} = \left\{ \begin{array}{l} \underbrace{\overline{\mathfrak{z}} \, {}^h\mathfrak{z}_1 \, {}^h\overline{\mathfrak{z}}_1^{-1}}_{\overline{\mathfrak{z}} \, \mathfrak{z}} \\ \underbrace{\overline{\mathfrak{z}} \, \mathfrak{z}}_{\overline{\mathfrak{z}}} \end{array} \right.$$

$$\begin{array}{ccc} \overline{h} & \xrightarrow{\mathfrak{z}\mathfrak{z} = \mathfrak{z}_1\eta\mathfrak{z}_1^*} & \mathbb{C}|\overline{h} \\ \mathfrak{z} & = \mathfrak{z}\eta\mathfrak{z}^* & \end{array}$$

$$\mathfrak{z} \star \mathfrak{b} = \mathfrak{z} \, \eta \, \overline{\mathfrak{b}}$$

$$\mathfrak{z} \star \overline{\mathfrak{b}} \, \overline{\mathfrak{z}} = \left\{ \begin{array}{l} \mathfrak{z} \, \mathfrak{z} \, \overline{\mathfrak{z}}^* = \mathfrak{z} \, \mathfrak{z}_1 \star \mathfrak{z} \, \mathfrak{z}_1 = \mathfrak{z} \, \mathfrak{z}_1 \, \eta \, \overbrace{\mathfrak{z} \, \mathfrak{z}_1}^* = \mathfrak{z} \, \mathfrak{z}_1 \, \eta \, \mathfrak{z}_1^* \, \overline{\mathfrak{z}} = \mathfrak{z} \, \mathfrak{z}_1 \, \eta \, \overbrace{\mathfrak{z} \, \mathfrak{z}_1}^* \\ \mathfrak{z} \, \mathfrak{z} \, \mathfrak{z}^* = \mathfrak{z} \, \mathfrak{z} \, \eta \, \overbrace{\mathfrak{z} \, \mathfrak{z}}^* = \mathfrak{z} \, \mathfrak{z} \, \eta \, \mathfrak{z}^* \, \overline{\mathfrak{z}} = \mathfrak{z} \, \mathfrak{z} \, \eta \, \mathfrak{z}^* \, \overline{\mathfrak{z}} \end{array} \right.$$





$$\begin{cases} \downarrow^h \mathbf{x}_i &= \underbrace{\downarrow^h}_{-h} \mathbf{x}_i \\ \downarrow^h \mathbf{1} &= \underbrace{\downarrow^h}_{-h} \mathbf{1} \end{cases}$$

