

$$\mathbb{K}^n \setminus \mathbb{K}^n \ni \mathbf{b} = b^1 \dots b^n$$

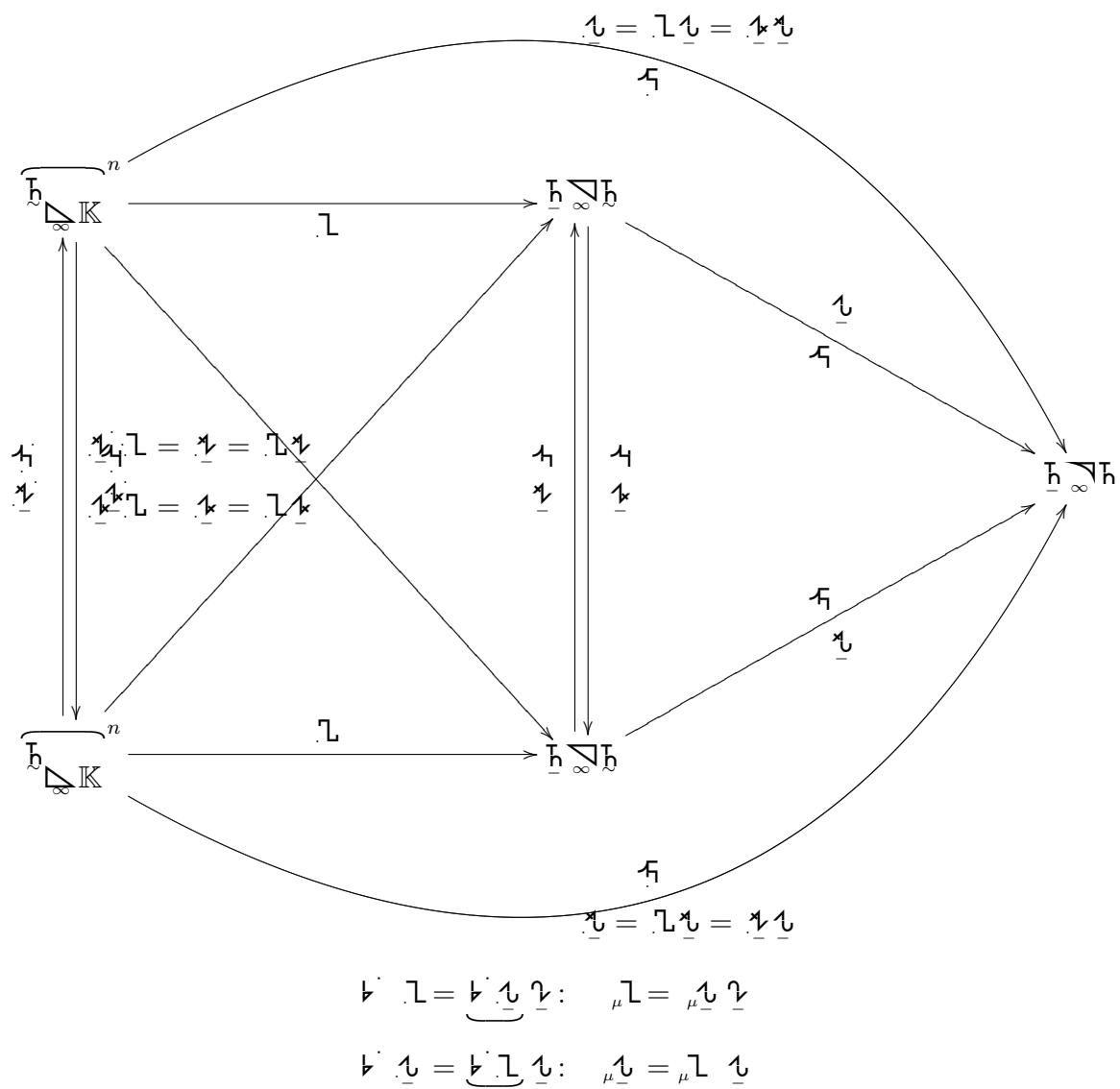
$$\underbrace{\mathbf{b} \times \mathbf{b}}_z = b_z b_z - b_z b_z$$

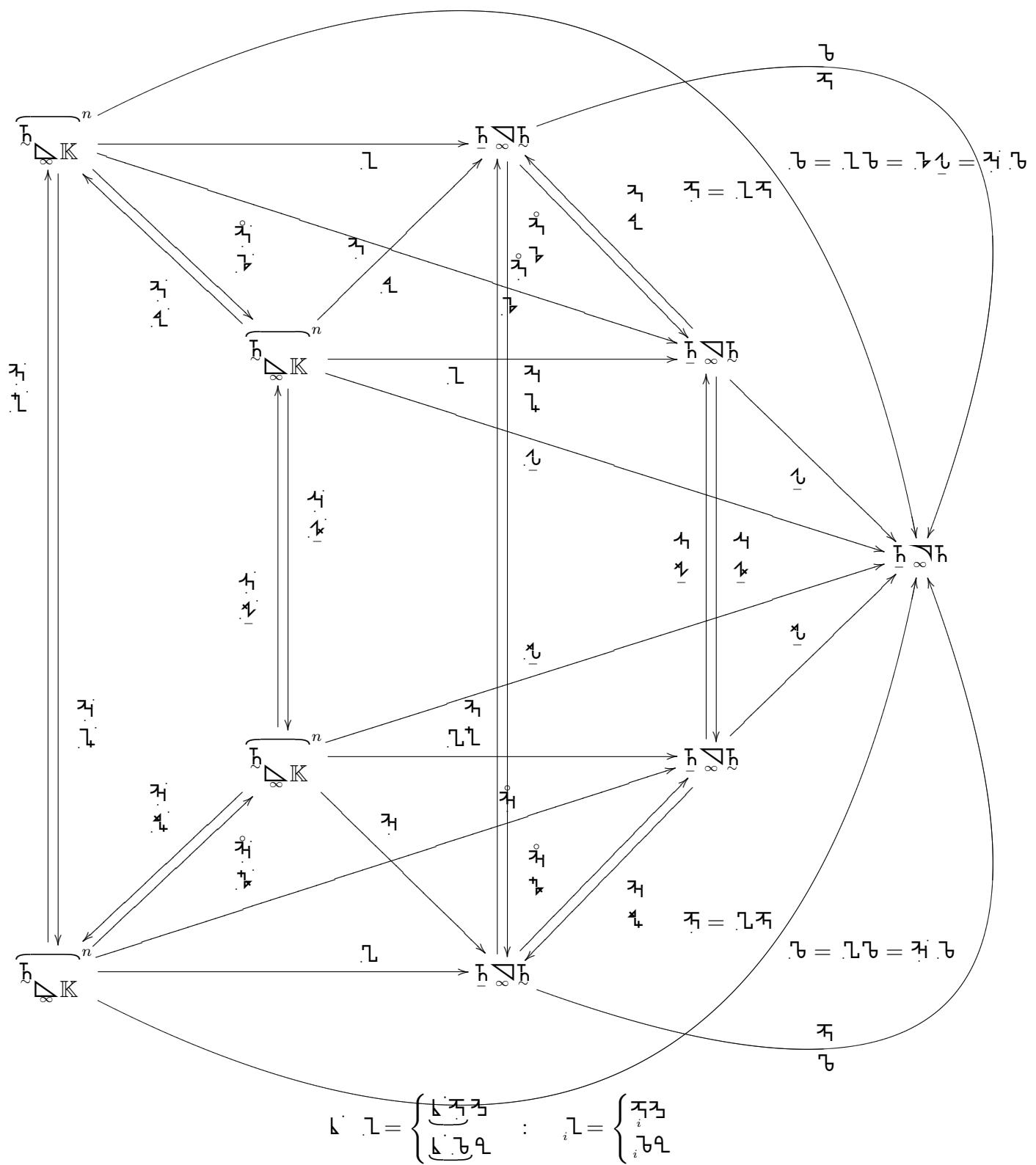
$$\underbrace{\mathbf{b} \times \mathbf{b}} \times \mathbf{b} + \underbrace{\mathbf{b} \times \mathbf{b}} \times \mathbf{b} + \underbrace{\mathbf{b} \times \mathbf{b}} \times \mathbf{b} = 0$$

$$4\text{LHS}_z = \sum \underbrace{\mathbf{b} \times \mathbf{b}} \times \mathbf{b}_z = \underbrace{\mathbf{b} \times \mathbf{b}}_{z} b_z - b_z \underbrace{\mathbf{b} \times \mathbf{b}}_z = \underbrace{b_z b_z - b_z b_z}_{z} b_z - b_z \underbrace{b_z b_z}_{z} = b_z b_z - b_z b_z = 0$$

$$\begin{array}{ccc} \mathbb{K}^n \setminus \mathbb{K}^n & & \ni \mathbf{b} = b^1 \dots b^n \\ \uparrow & & \\ {}^h \mathfrak{A}^{-1} = \mathbf{b} & \leftrightarrow & {}^h \mathfrak{A} = \mathbf{b} \\ \downarrow & & \\ \mathbb{K}^n \setminus \mathbb{K}^n & & \ni \mathbf{b} = b^1 \dots b^n \end{array}$$

$$\begin{aligned} \mathbf{b} &= \begin{cases} \underbrace{\mathfrak{A}^{-1} \mathfrak{A}}_{\mathbf{b}} \mathfrak{b} & : \quad i \delta^j = \begin{cases} \mathfrak{A}^{-1} \mathfrak{A}^j \\ \mathfrak{A}^i \mathfrak{A}^j \end{cases} \\ \underbrace{\mathfrak{A} \mathfrak{A}}_{\mathbf{b}} \mathfrak{b} & \end{cases} \\ \mathbf{b} &= \begin{cases} \underbrace{\mathfrak{A}^{-1} \mathfrak{A}}_{\mathbf{b}} \mathfrak{b} & : \quad \mu \delta^\nu = \begin{cases} \mathfrak{A}^k \mathfrak{A}^{-1} \\ \mathfrak{A}^k \mathfrak{A}^\nu \end{cases} \\ \underbrace{\mathfrak{A} \mathfrak{A}}_{\mathbf{b}} \mathfrak{b} & \end{cases} \end{aligned}$$





$$\begin{cases} \underline{\mathbf{L}}\underline{\mathbf{K}} = \underline{\mathbf{L}}\underline{\mathbf{L}}\underline{\mathbf{K}} = \underline{\mathbf{L}}\overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{K}} \\ \underline{\mathbf{L}}\underline{\mathbf{B}} = \underline{\mathbf{L}}\underline{\mathbf{L}}\underline{\mathbf{B}} = \underline{\mathbf{L}}\overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{B}} \end{cases} \quad \begin{cases} \underline{\mathbf{K}} = \underline{\mathbf{L}}\underline{\mathbf{K}} = \overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{K}} \\ \underline{\mathbf{B}} = \underline{\mathbf{L}}\underline{\mathbf{B}} = \overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{B}} \end{cases}$$

$$\underline{\mathbf{L}}\underline{\mathbf{A}} = \begin{cases} \underline{\mathbf{L}}\underline{\mathbf{K}}\underline{\mathbf{A}} \\ \underline{\mathbf{L}}\underline{\mathbf{B}}\underline{\mathbf{A}} \end{cases} : \quad \underline{\mathbf{A}}\underline{\mathbf{L}} = \begin{cases} \underline{\mathbf{K}}\underline{\mathbf{A}} \\ \underline{\mathbf{B}}\underline{\mathbf{A}} \end{cases}$$

$$\begin{cases} \underline{\mathbf{L}}\overset{\circ}{\underline{\mathbf{L}}} = \underline{\mathbf{L}}\underline{\mathbf{K}}\overset{\circ}{\underline{\mathbf{L}}} \\ \underline{\mathbf{L}}\overset{\circ}{\underline{\mathbf{L}}} = \underline{\mathbf{L}}\underline{\mathbf{B}}\overset{\circ}{\underline{\mathbf{L}}} \end{cases} \quad \begin{cases} \overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{K}} = \underline{\mathbf{K}}\overset{\circ}{\underline{\mathbf{L}}} \\ \overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{B}} = \underline{\mathbf{B}}\overset{\circ}{\underline{\mathbf{L}}} \end{cases}$$

$$\begin{cases} \underline{\mathbf{L}}\underline{\mathbf{A}} = \underline{\mathbf{L}}\overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{A}} \\ \underline{\mathbf{L}}\underline{\mathbf{A}} = \underline{\mathbf{L}}\overset{\circ}{\underline{\mathbf{L}}}\underline{\mathbf{A}} \end{cases} \quad \begin{cases} \underline{\mathbf{A}} = \underline{\mathbf{K}}\underline{\mathbf{A}} \\ \underline{\mathbf{A}} = \underline{\mathbf{B}}\underline{\mathbf{A}} \end{cases}$$

