

$$\mathbb{L}_{\infty} \triangleq \mathbb{L} \ni \mathbb{b}$$

$$\underline{\mathbb{b} \times \mathbb{b}}_z = \mathbb{b}_z \mathbb{b}_z - \mathbb{b}_z \mathbb{b}_z$$

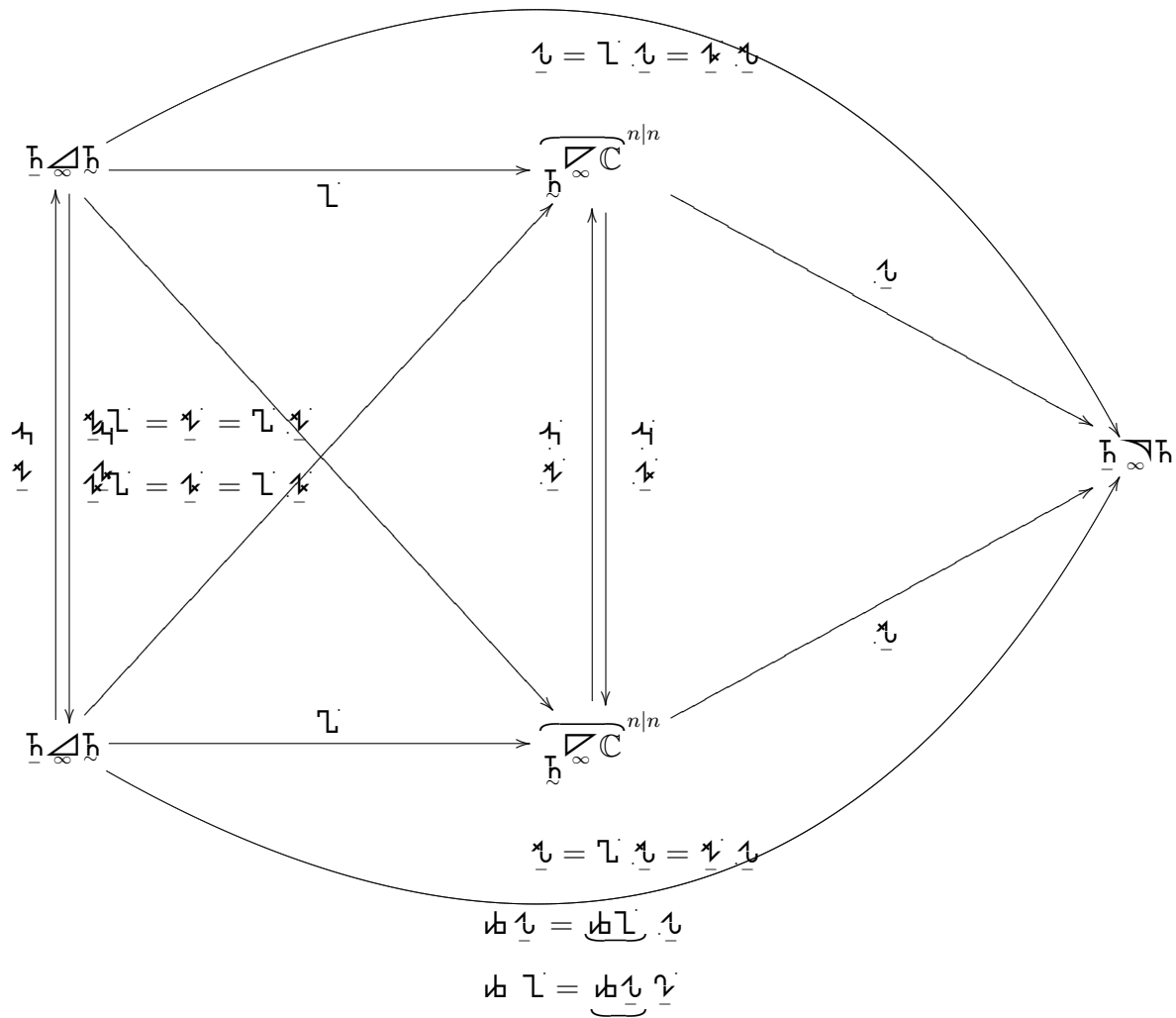
$$\underline{\mathbb{b} \times \mathbb{b}} \times \mathbb{b} + \underline{\mathbb{b} \times \mathbb{b}} \times \mathbb{b} + \underline{\mathbb{b} \times \mathbb{b}} \times \mathbb{b} = 0$$

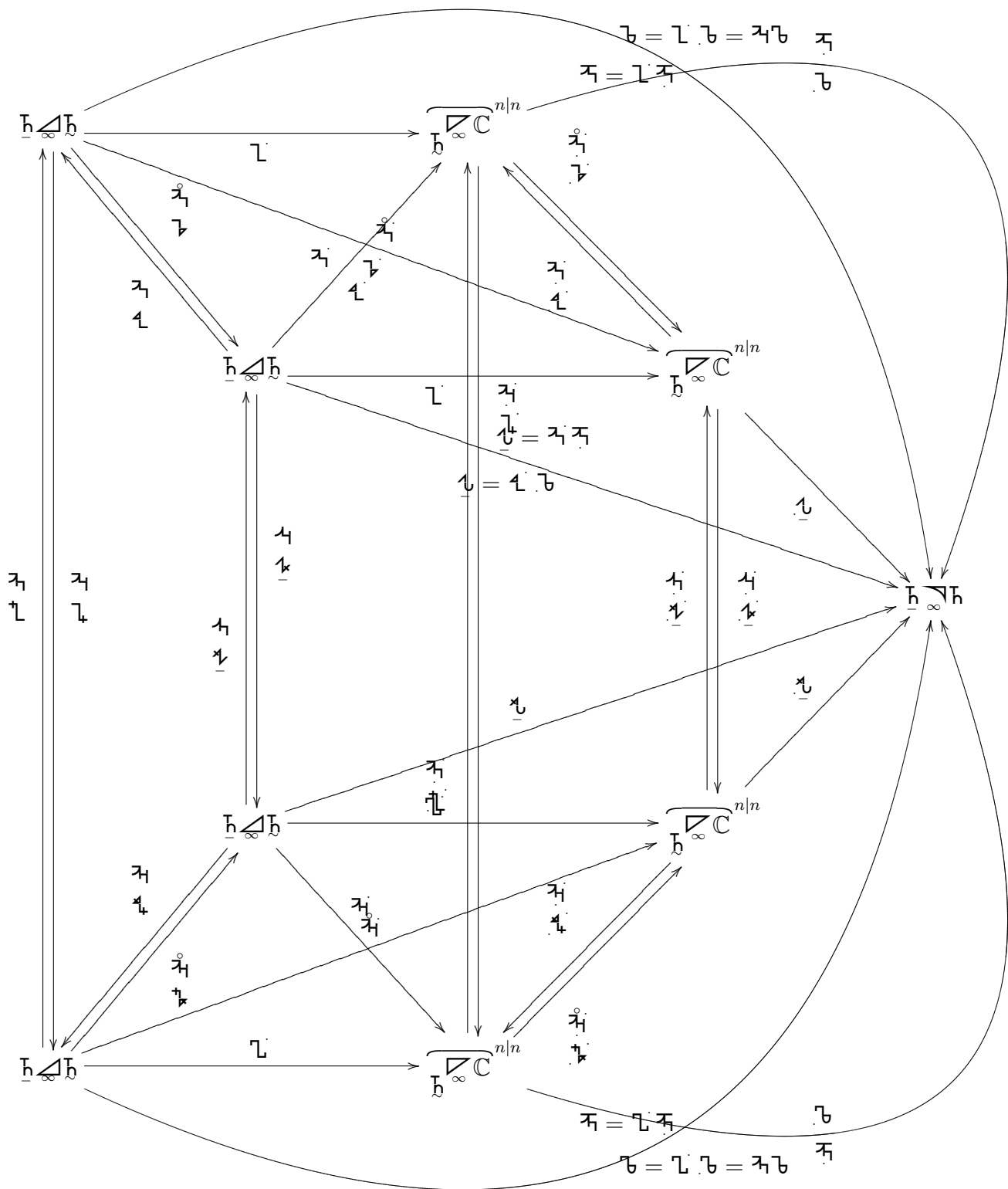
$$\begin{aligned} 4\text{LHS}_z &= \sum \underline{\mathbb{b} \times \mathbb{b}} \times \mathbb{b}_z = \underline{\mathbb{b} \times \mathbb{b}}_z \mathbb{b}_z - \mathbb{b}_z \underline{\mathbb{b} \times \mathbb{b}}_z = \underline{\mathbb{b}_z \mathbb{b}_z - \mathbb{b}_z \mathbb{b}_z} \mathbb{b}_z - \mathbb{b}_z \underline{\mathbb{b}_z \mathbb{b}_z - \mathbb{b}_z \mathbb{b}_z} \\ &= \mathbb{b}_z \mathbb{b}_z \mathbb{b}_z - \mathbb{b}_z \mathbb{b}_z \mathbb{b}_z - \mathbb{b}_z \mathbb{b}_z \mathbb{b}_z - \underline{\mathbb{b}_z \mathbb{b}_z} \mathbb{b}_z + \mathbb{b}_z \mathbb{b}_z \mathbb{b}_z + \underline{\mathbb{b}_z \mathbb{b}_z} \mathbb{b}_z = 0 \end{aligned}$$

$$\begin{array}{ccc} \mathbb{L}_{\infty} \triangleq \mathbb{L} & \ni \mathbb{b} = \mathbb{b} \mathbb{1} = \mathbb{b} \mathbb{2} \\ \updownarrow \begin{array}{c} \mathbb{2} = \mathbb{2} \\ \mathbb{1} = \mathbb{2} \end{array} & \\ \mathbb{L}_{\infty} \triangleq \mathbb{L} & \ni \mathbb{b} = \mathbb{b} \mathbb{2} = \mathbb{b} \mathbb{2} \end{array}$$

$$\mathbb{b} = \begin{cases} \underline{\mathbb{b} \mathbb{2}} \mathbb{2} \\ \underline{\mathbb{b} \mathbb{2}} \mathbb{1} \end{cases}$$

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$$\mathbb{L} \cdot \mathbb{L} = \begin{cases} \mathbb{L} \mathbb{L} \mathbb{L} \\ \mathbb{L} \mathbb{L} \mathbb{L} \end{cases}$$

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