

$$\mathbb{C}^{n|n} \triangleleft_{\infty} \mathbb{C}^{n|n} \ni \mathbb{b}^i = \mathbb{b}^1 \cdots \mathbb{b}^n$$

$$\underline{\mathbb{b}^i \times \mathbb{b}^j}_z = \mathbb{b}_z^i \mathbb{b}_z^j - \mathbb{b}_z^j \mathbb{b}_z^i$$

$$\underline{\mathbb{b}^i \times \mathbb{b}^j} \times \mathbb{b}^k + \underline{\mathbb{b}^i \times \mathbb{b}^k} \times \mathbb{b}^j + \underline{\mathbb{b}^j \times \mathbb{b}^k} \times \mathbb{b}^i = 0$$

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

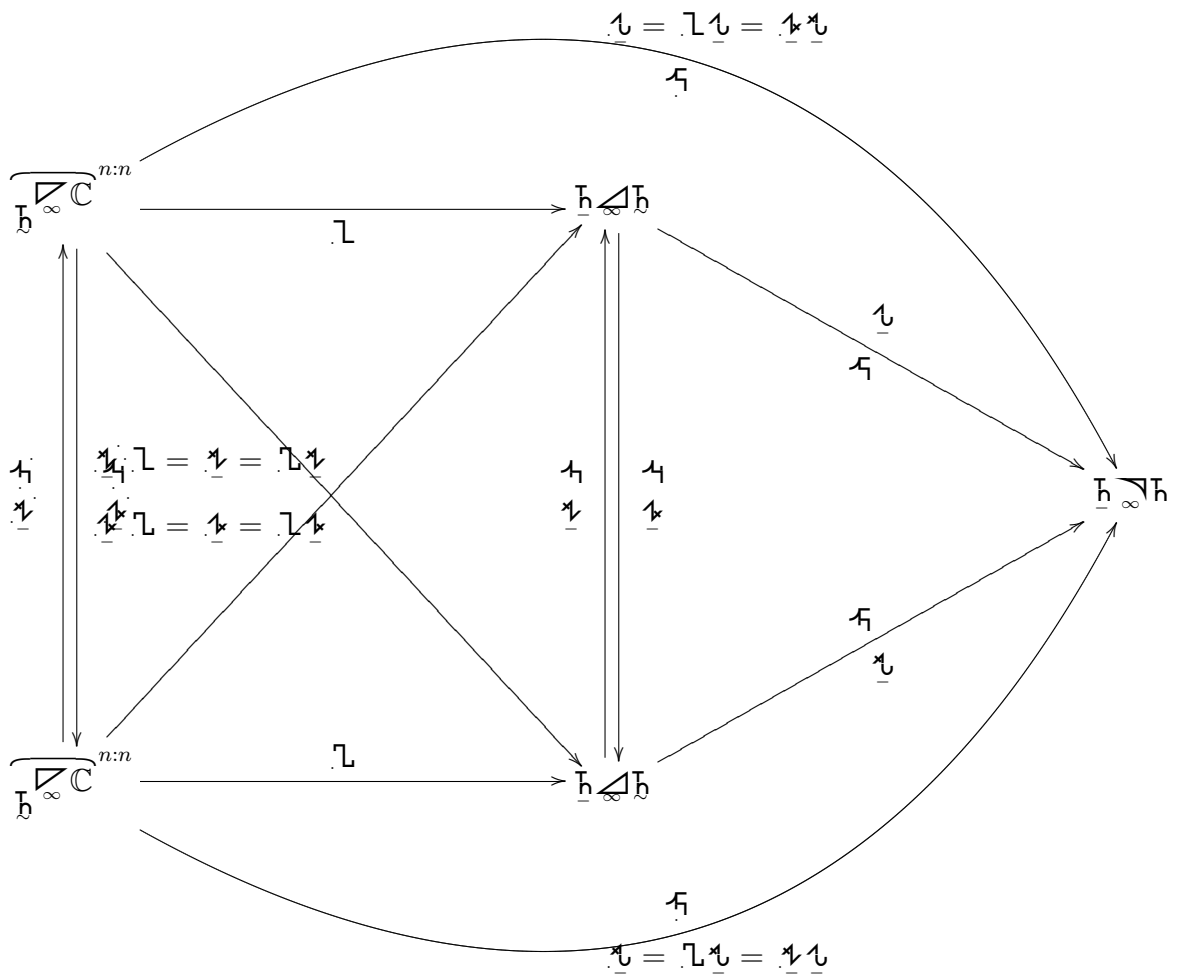
$$\begin{array}{ccc} \mathbb{C}^{n|n} \triangleleft_{\infty} \mathbb{C}^{n|n} & & \ni \mathbb{k} = \mathbb{k}^1 \cdots \mathbb{k}^n \\ \uparrow \mathbb{h}^{\circ} = \mathbb{h} & & \\ \mathbb{C}^{n|n} \triangleleft_{\infty} \mathbb{C}^{n|n} & & \ni \mathbb{b} = \mathbb{b}^1 \cdots \mathbb{b}^n \\ \downarrow \mathbb{h}^{\circ} = \mathbb{h} & & \end{array}$$

$$\mathbb{k}^i = \begin{pmatrix} \mathbb{k}_i^{\circ} \mathbb{z}_i \\ \mathbb{k}_i^{\circ} \mathbb{z}_i \end{pmatrix}$$

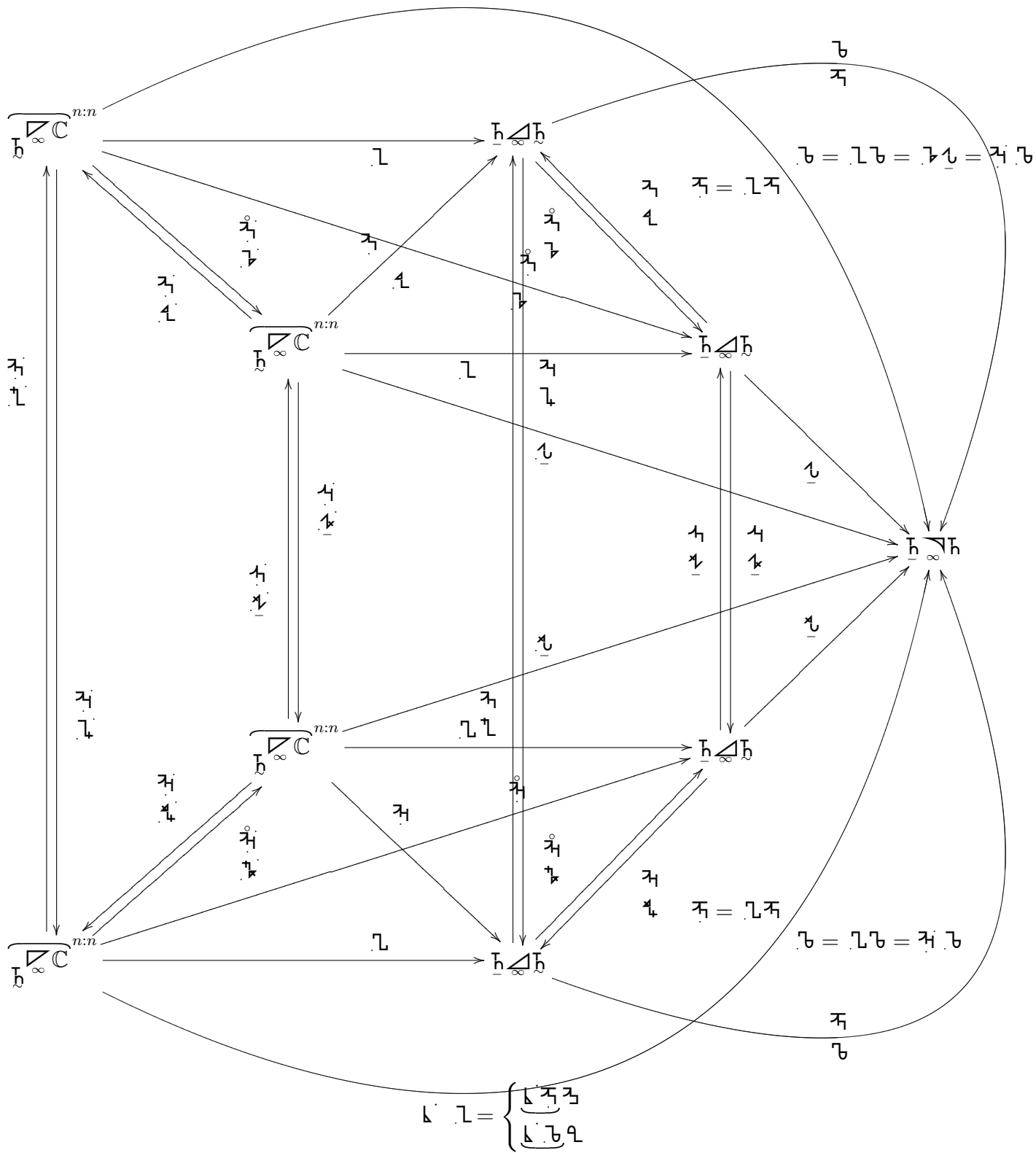
$${}_i \delta^j = \begin{pmatrix} \mathbb{z}_i^{\lambda} \mathbb{z}_i^j \\ \mathbb{z}_i^{\lambda} \mathbb{z}_i^j \end{pmatrix}$$

$$\mathbb{b}^i = \begin{pmatrix} \mathbb{b}_i^{\circ} \mathbb{z}_i \\ \mathbb{b}_i^{\circ} \mathbb{z}_i \end{pmatrix}$$

$${}_{\mu} \delta^{\nu} = \begin{pmatrix} \mathbb{z}_i^k \mathbb{z}_i^{\nu} \\ \mathbb{z}_i^k \mathbb{z}_i^{\nu} \end{pmatrix}$$



$$\begin{aligned}
 \mu \cdot L &= \underbrace{\mu \cdot U}_{\mu} \cdot U \\
 \mu \cdot L &= \mu \cdot U \cdot U \\
 \mu \cdot U &= \underbrace{\mu \cdot L}_{\mu} \cdot U \\
 \mu \cdot U &= \mu \cdot L \cdot U
 \end{aligned}$$



$${}_i\mathbb{L} = \begin{cases} \overset{\circ}{\mathfrak{z}}\mathfrak{z} \\ \underset{i}{\mathfrak{b}}\mathfrak{a} \end{cases}$$

$$\begin{cases} \mathfrak{b}\overset{\circ}{\mathfrak{z}} = \mathfrak{b}\mathbb{L}\mathfrak{z} = \mathfrak{b}\overset{\circ}{\mathfrak{z}}\mathbb{L} & \begin{cases} \mathfrak{z} = \mathbb{L}\mathfrak{z} = \overset{\circ}{\mathfrak{z}}\mathbb{L} \\ \mathfrak{b} = \mathbb{L}\mathfrak{b} = \mathfrak{b}\mathbb{L} \end{cases} \end{cases}$$

$$\mathfrak{b}\mathbb{L} = \begin{cases} \mathfrak{b}\overset{\circ}{\mathfrak{z}}\mathfrak{z} \\ \mathfrak{b}\mathfrak{a}\mathfrak{b} \end{cases}$$

$$\mathbb{L} = \begin{cases} \overset{\circ}{\mathfrak{z}}\mathfrak{z} \\ \mathfrak{a}\mathfrak{b} \end{cases}$$

$$\begin{cases} \mathfrak{b}\overset{\circ}{\mathfrak{z}} = \mathfrak{b}\mathfrak{z}\mathfrak{b} & \begin{cases} \overset{\circ}{\mathfrak{z}} = \mathfrak{z}\mathfrak{b} \\ \mathfrak{b} = \mathfrak{b}\mathfrak{b} \end{cases} \end{cases}$$

$$\begin{cases} \mathfrak{b}\mathfrak{z} = \mathfrak{b}\mathbb{L}\mathfrak{z} & \begin{cases} \mathfrak{z} = \mathbb{L}\mathfrak{z} \\ \mathfrak{b} = \mathbb{L}\mathfrak{b} \end{cases} \end{cases}$$

