$$\mathbb{C} \xrightarrow[\text{bihol +grp-iso}]{\times a} \mathbb{C}$$

$$+\underline{\Lambda} \downarrow \qquad\qquad \downarrow +\underline{\Lambda a}$$

$$\mathbb{C} + \underline{\Lambda} \xrightarrow[\times a]{\text{bihol grp-iso}} \mathbb{C} + \underline{\Lambda a}$$

$$\underline{z + \Lambda}\, a := za + \Lambda a : \quad a \in \mathbb{C}^{\times} \quad \text{rotation}$$

$$\mathbb{C} \xrightarrow[\text{bihol}]{+b} \mathbb{C}$$

$$+\underline{\Lambda} \downarrow \qquad\qquad \downarrow +\underline{\Lambda}$$

$$\mathbb{C} + \underline{\Lambda} \xrightarrow[+b]{\text{bihol}} \mathbb{C} + \underline{\Lambda}$$

$$\underline{z + \Lambda} + b := \underline{z + b} + \Lambda \quad \text{translation}$$

$$\mathbb{C} + \underline{\Lambda} \xrightarrow[\text{bihol}]{\mathcal{v}} \mathbb{C} + \underline{\acute{\Lambda}} \implies$$

$$\mathbb{C} \xrightarrow[\text{bihol}]{\tilde{\mathcal{v}}} \mathbb{C}$$

$$+\underline{\Lambda} \downarrow \qquad\qquad \downarrow +\underline{\Lambda}$$

$$\mathbb{C} + \underline{\Lambda} \xrightarrow[\mathcal{v}]{\text{bihol}} \mathbb{C} + \underline{\acute{\Lambda}}$$

$$\implies \bigvee \begin{cases} a \in \mathbb{C}^{\times} \\ b \in \mathbb{C} \end{cases} \Lambda a = \acute{\Lambda} \quad {}^z\tilde{\mathcal{v}} = za + b$$