

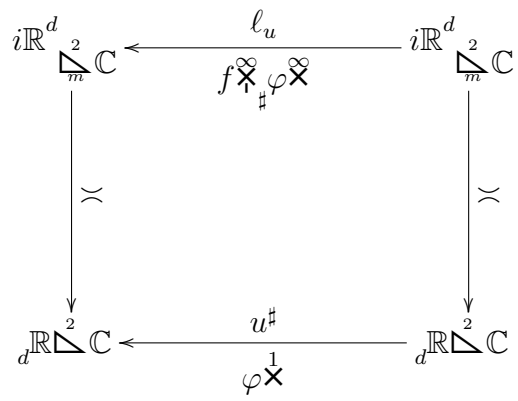
$$i\mathbb{R}^d \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} \mathbb{C} \boxtimes \mathbb{C} \begin{array}{c} 1 \\ \triangleleft \\ -m \end{array} i\mathbb{R}^d \xrightarrow{\wr} {}_d\mathbb{R} \begin{array}{c} 1 \\ \triangleleft \\ -m \end{array} \mathbb{C} \boxtimes \mathbb{C} \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} {}_d\mathbb{R}$$

$$\begin{array}{c} \downarrow \\ \Theta | \\ i\mathbb{R}^d \\ \triangleleft \\ m \end{array} \mathbb{C} \xrightarrow{\wr} \begin{array}{c} \downarrow \\ \Theta | \\ {}_d\mathbb{R} \\ \triangleleft \\ m \end{array} \mathbb{C}^2$$

$$i\mathbb{R}^d \begin{array}{c} \infty \\ \triangleleft \\ 0 \end{array} \mathbb{C} \boxtimes \mathbb{C} \begin{array}{c} 1 \\ \triangleleft \\ m \end{array} i\mathbb{R}^d \xrightarrow{\wr} {}_d\mathbb{R} \begin{array}{c} 1 \\ \triangleleft \\ m \end{array} \mathbb{C} \boxtimes \mathbb{C} \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} {}_d\mathbb{R}$$

$$\begin{array}{c} \downarrow \\ \Theta | \\ i\mathbb{R}^d \\ \triangleleft \\ m \end{array} \mathbb{C} \xrightarrow{\wr} \begin{array}{c} \downarrow \\ \Theta | \\ {}_d\mathbb{R} \\ \triangleleft \\ m \end{array} \mathbb{C}^2$$

$$\begin{array}{ccccccc} i\mathbb{R}^d \begin{array}{c} \infty \\ \triangleleft \\ 0 \end{array} \mathbb{C} & \xrightarrow{\square} & i\mathbb{R}^d \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} \mathbb{C} & \xrightarrow[\text{plicator}]{M} & \Theta | \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} \mathbb{C} & \xleftarrow[\text{translator}]{C} & \mathbb{C} \begin{array}{c} 1 \\ \triangleleft \\ -m \end{array} i\mathbb{R}^d & \xleftarrow{\square} & \mathbb{C} \begin{array}{c} 1 \\ \triangleleft \\ m \end{array} i\mathbb{R}^d \\ \downarrow \wr & & \downarrow \wr & & \downarrow \wr & & \downarrow \wr & & \downarrow \wr \\ {}_d\mathbb{R} \begin{array}{c} 1 \\ \triangleleft \\ m \end{array} \mathbb{C} & \xrightarrow{\square} & {}_d\mathbb{R} \begin{array}{c} 1 \\ \triangleleft \\ -m \end{array} \mathbb{C} & \xrightarrow[\hat{M}]{\text{co-translator}} & \Theta | \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} \mathbb{C}^2 & \xleftarrow[\hat{C}]{\text{coplicator}} & \mathbb{C} \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} {}_d\mathbb{R} & \xleftarrow{\square} & \mathbb{C} \begin{array}{c} \infty \\ \triangleleft \\ m \end{array} {}_d\mathbb{R} \end{array}$$



$$\underbrace{\varphi \otimes}_{\alpha} \xi = \sum_{\beta \in {}_d\mathbb{R}} \varphi_{\alpha - \beta} \xi_{\beta}$$