

$$\begin{array}{c}
\begin{array}{ccc}
\mathbb{T}_{\frac{\infty}{m}} \mathbb{C} \bowtie \mathbb{C} \triangleleft \mathbb{T}_{-m} & \xrightarrow{\quad \wr \quad} & \mathbb{Z}_{\frac{1}{-m}} \mathbb{C} \bowtie \mathbb{C} \triangleleft \mathbb{Z} \\
\downarrow & & \downarrow \\
\mathfrak{U} | \mathbb{T}_{\frac{2}{m}} \mathbb{C} & \xrightarrow{\quad \wr \quad} & \mathfrak{U} | \mathbb{Z}_{\frac{2}{m}} \mathbb{C} \\
\downarrow & & \downarrow \\
\mathbb{T}_{\frac{1}{0}} \mathbb{C} \bowtie \mathbb{C} \triangleleft \mathbb{T}_{\frac{1}{m}} & \xrightarrow{\quad \wr \quad} & \mathbb{Z}_{\frac{1}{m}} \mathbb{C} \bowtie \mathbb{C} \triangleleft \mathbb{Z} \\
\downarrow & & \downarrow \\
\mathfrak{U} | \mathbb{T}_{\frac{2}{m}} \mathbb{C} & \xrightarrow{\quad \wr \quad} & \mathfrak{U} | \mathbb{Z}_{\frac{2}{m}} \mathbb{C}
\end{array} \\
\\
\begin{array}{ccccccc}
\mathbb{T}_{\frac{1}{0}} \mathbb{C} & \xrightarrow{\quad \sqsubset \quad} & \mathbb{T}_{\frac{\infty}{m}} \mathbb{C} & \xrightarrow[\text{multiplier}]{M} & \mathfrak{U} | \mathbb{T}_{\frac{2}{m}} \mathbb{C} & \xleftarrow[\text{convolutor}]{C} & \mathbb{C} \triangleleft \mathbb{T}_{-m} & \xleftarrow{\quad \sqsupset \quad} & \mathbb{C} \triangleleft \mathbb{T}_{\frac{1}{m}} \\
\downarrow \wr & & \downarrow \wr & & \downarrow \wr & & \downarrow \wr & & \downarrow \wr \\
\mathbb{Z}_{\frac{1}{m}} \mathbb{C} & \xrightarrow{\quad \sqsubset \quad} & \mathbb{Z}_{\frac{1}{-m}} \mathbb{C} & \xrightarrow[\hat{M}]{\text{co-convolutor}} & \mathfrak{U} | \mathbb{Z}_{\frac{2}{m}} \mathbb{C} & \xleftarrow[\hat{C}]{\text{co-multiplier}} & \mathbb{C} \triangleleft \mathbb{Z} & \xleftarrow{\quad \sqsupset \quad} & \mathbb{C} \triangleleft \mathbb{Z}
\end{array} \\
\\
\begin{array}{ccc}
\mathbb{T}_{\frac{2}{m}} \mathbb{C} & \xleftarrow[\mathfrak{f}_{\#}^{\infty} \varphi_{\#}^{\infty}]{l_u} & \mathbb{T}_{\frac{2}{m}} \mathbb{C} \\
\downarrow \wr & & \downarrow \wr \\
\mathbb{Z}_{\frac{2}{m}} \mathbb{C} & \xleftarrow[\varphi_{\#}^1]{u^{\#}} & \mathbb{Z}_{\frac{2}{m}} \mathbb{C}
\end{array}
\end{array}$$

$$\varphi \underset{\alpha}{\overset{1}{\times}} \xi = \sum_{\beta \in \mathbb{Z}} \varphi_{\alpha - \beta} \xi_{\beta}$$