

$$\begin{array}{c}
 \text{id}_Y \otimes \text{coev} \xrightarrow{\quad} Y \otimes X \otimes X^v \xrightarrow{\quad} Z \otimes X \otimes X^v \xrightarrow{\quad} Z \otimes X^v \otimes X \xrightarrow{\quad} Z \\
 \text{id}_Y \otimes \text{ev} \xrightarrow{\quad} Y \otimes X \otimes X^v \xrightarrow{\quad} Z \otimes X \otimes X^v \xrightarrow{\quad} Z \otimes X^v \otimes X \xrightarrow{\quad} Z
 \end{array}$$