

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

The diagram illustrates a sequence of tensor products and maps between objects  $Y$ ,  $X$ ,  $X^v$ , and  $Z$ . The objects are represented by red letters, and the tensor product symbol  $\otimes$  is represented by a purple circle with a cross. The maps are represented by blue arrows. The sequence of maps is:  $\text{id}_Y \otimes \text{coev}$ ,  $\text{id}_Y \otimes \text{ev}$ ,  $f \otimes \text{id}_v$ ,  $\text{id}_z \otimes \text{br}$ , and  $\text{id}_z \otimes \text{ev}$ . The objects  $Y$ ,  $X$ ,  $X^v$ , and  $Z$  are arranged in a sequence, with the maps connecting them. The objects  $Y$  and  $X$  are represented by red letters,  $X^v$  is represented by a black letter, and  $Z$  is represented by a red letter. The tensor product symbol  $\otimes$  is represented by a purple circle with a cross. The maps are represented by blue arrows.