

$$\begin{array}{c}
 \text{id}_Y \otimes \text{coev}_X \\
 \longrightarrow \\
 Y \otimes X \otimes X \vee \\
 \xrightarrow{f \otimes \text{id}_X} \\
 Z \otimes X \otimes X \vee \\
 \xrightarrow{\text{id}_Z \otimes \text{br}} \\
 Z \otimes X \otimes X \vee \\
 \xrightarrow{\text{id}_Z \otimes \text{ev}_X} \\
 Z
 \end{array}$$