

$$\begin{aligned}
& \xrightarrow{\theta} \sum_{i,j,k,l=\pm} \text{Diagram 1} \xrightarrow{\epsilon \circ i_* \otimes id} \sum_{i,j,k,l=\pm} \epsilon \left(\begin{array}{c} + \\ - \\ - \\ + \end{array} \begin{array}{c} i \\ j \\ k \\ l \end{array} \right) \text{Diagram 2} \\
& = \text{Diagram 3} + \text{Diagram 4}
\end{aligned}$$