

$$\begin{array}{ccc}
 V & \xrightarrow{f_V} & T_{\mu}^{\lambda} T_{\lambda}^{\mu} V \\
 \downarrow \text{id} & & \downarrow \text{id}' \\
 V' & \xrightarrow{f_{V'}} & T_{\mu}^{\lambda} T_{\lambda}^{\mu} V'
 \end{array}$$