

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