

$$\overline{\mathbb{E}} \Delta^m \mathbb{I}$$

$$\overline{\mathbb{E}} \Delta^m \mathbb{I}$$

$$d$$

$$\overline{\mathbb{E}} \Delta^{m+} \mathbb{I}$$

$$d \underbrace{\mathfrak{g} \times \mathfrak{g}}_{} = \underline{d} \mathfrak{g} \times \mathfrak{g} + {}_{-1}^p \mathfrak{g} \times \underline{d} \mathfrak{g}$$

$$\begin{aligned}
& b \models \widehat{d \underbrace{\mathfrak{g} \times \mathfrak{g}}_{} } = b \models \mathfrak{g} \times \mathfrak{g} - d \widehat{b \models \mathfrak{g} \times \mathfrak{g}} = b \models \mathfrak{g} \times \mathfrak{g} + \mathfrak{g} \times \underline{b \models \mathfrak{g}} - d \widehat{b \models \mathfrak{g} \times \mathfrak{g}} - {}_{p-1}^p d \widehat{\mathfrak{g} \times \underline{b \models \mathfrak{g}}} \\
& \stackrel{\text{Ind}}{=} b \models \mathfrak{g} \times \mathfrak{g} - \widehat{d \underline{b \models \mathfrak{g}}} \times \mathfrak{g} - {}_{p-1}^{p-1} \widehat{b \models \mathfrak{g} \times d \mathfrak{g}} - {}_{-1}^p \widehat{d \mathfrak{g} \times b \models \mathfrak{g}} + \mathfrak{g} \times \underline{b \models \mathfrak{g}} - \mathfrak{g} \times \widehat{d \underline{b \models \mathfrak{g}}} \\
& = \widehat{b \models d \mathfrak{g} \times \mathfrak{g}} + \mathfrak{g} \times \widehat{b \models d \mathfrak{g}} + {}_{-1}^{p+1} \widehat{d \mathfrak{g} \times b \models \mathfrak{g}} + {}_{-1}^p \widehat{b \models \mathfrak{g} \times d \mathfrak{g}} = b \models \widehat{d \mathfrak{g} \times \mathfrak{g} + {}_{-1}^p \mathfrak{g} \times d \mathfrak{g}}
\end{aligned}$$