

$$\mathbb{T} \triangleleft^m \mathbb{T} = \frac{d\mathfrak{A}}{\mathbb{T} \overset{\cdot\cdot}{\times} \mathbb{T} \xleftarrow[\text{(m-1)-lin}]{\mathfrak{A}} \mathbb{T}}$$

□

$$\begin{array}{c} \mathbb{T} \triangleleft^m \mathbb{T} = \frac{\mathbb{T} \overset{\cdot\cdot}{\times} \mathbb{T} \xleftarrow[\text{m-lin}]{\mathfrak{A}} \mathbb{T}}{d\mathfrak{A} = 0} \\ \downarrow \scriptstyle J \\ \mathbb{T} \triangleleft^m \mathbb{T} = \mathbb{T} \triangleleft^m \mathbb{T} \models \mathbb{T} \triangleleft^m \mathbb{T} \end{array}$$