

$$\begin{aligned}
\mathbb{T}: \mathfrak{X} = \mathbb{T}_0 \times \mathbb{T}_1 \text{ ass sAlg} &\Rightarrow \mathbb{T}: \mathfrak{X} \text{ sLiegebra } \mathbb{L} \times \mathbb{L} \xrightarrow[\text{s-comm}]{} \mathbb{L} \times \mathbb{L} \xrightarrow[-1]{} \mathbb{L} \times \mathbb{L} \\
&\mathbb{T}: \mathfrak{X} = \mathbb{T}_0 \times \mathbb{T}_1 \text{ ass sAlg} \\
\mathbb{L} \xleftarrow[\text{sInv}]{} \mathbb{L}^* &\Rightarrow \frac{\mathbb{L} \in \mathbb{T}}{\mathbb{L}^* = -\mathbb{L}} \xrightarrow[\text{sLiegebra}]{} \mathbb{T}: \mathfrak{X}
\end{aligned}$$