

$$\mathbb{h}_{\infty} \underbrace{\mathbb{h}_{\infty} \mathbb{L} \Gamma \tilde{\mathcal{O}} | \mathbb{L}} \ni \cong \text{spin struct}$$

$$\mathbb{C} | \mathbb{L} \times \mathbb{h}_{\infty} \underbrace{\mathbb{h}_{\infty} \mathbb{L} \Gamma \tilde{\mathcal{O}} | \mathbb{L}}_{\tilde{\mathcal{O}} | \mathbb{L}} = \frac{\tilde{\mathcal{X}} \in \mathbb{C} | \mathbb{L} \times \mathbb{h}_{\infty} \underbrace{\mathbb{h}_{\infty} \mathbb{L} \Gamma \tilde{\mathcal{O}} | \mathbb{L}}}{pg \tilde{\mathcal{X}} = g^{-1p} \tilde{\mathcal{X}} \text{ homog}}$$

$$\begin{array}{c} \mathbb{h}_{\infty} \underbrace{\mathbb{h}_{\infty} \mathbb{L} \Gamma \tilde{\mathcal{O}} | \mathbb{L}} \\ \updownarrow \begin{array}{l} a \\ b \end{array} \\ \mathbb{C} | \mathbb{L} \times \mathbb{h}_{\infty} \underbrace{\mathbb{h}_{\infty} \mathbb{L} \Gamma \tilde{\mathcal{O}} | \mathbb{L}}_{\tilde{\mathcal{O}} | \mathbb{L}} \end{array}$$