

$$\bar{\mathbb{k}}:\ast = \bar{\mathbb{k}}_0 \times \bar{\mathbb{k}}_1 \text{ comm sAlg} \Rightarrow \bar{\mathbb{k}} \otimes_0 \Lambda = \underbrace{\bar{\mathbb{k}}_0 \otimes \Lambda_0}_{\ast} \times \underbrace{\bar{\mathbb{k}}_1 \otimes \Lambda_1}_{\ast} \text{ comm Alg}$$

$$\underbrace{\mathbb{k}_0 \otimes \lambda_0 + \mathbb{k}_1 \otimes \lambda_1}_{\ast} \times \underbrace{\mathbb{k}'_0 \otimes \lambda'_0 + \mathbb{k}'_1 \otimes \lambda'_1}_{\ast} = \underbrace{\mathbb{k}_0 \ast \mathbb{k}'_0}_{\ast} \otimes \lambda_0 \times \lambda'_0 + \underbrace{\mathbb{k}_0 \ast \mathbb{k}'_1}_{\ast} \otimes \lambda_0 \times \lambda'_1 + \underbrace{\mathbb{k}_1 \ast \mathbb{k}'_0}_{\ast} \otimes \lambda_1 \times \lambda'_0 - \underbrace{\mathbb{k}_1 \ast \mathbb{k}'_1}_{\ast} \otimes \lambda_1 \times \lambda'_1$$

$$\bar{\mathbb{k}}:\ast \text{ sJor} \Leftrightarrow \bar{\mathbb{k}} \otimes_0 \Lambda:\ast \text{ Jor}$$