

$$\mathbb{J} \in \triangleleft \mathbb{K} \text{ sAlg}$$

$$\mathbb{J} \triangleleft^{\mathbb{J}} = \frac{\mathbb{J} \xleftarrow{\mathbb{J}} \mathbb{J} \text{ lin}}{\mathbb{J} \triangleleft = \mathbb{J} \triangleleft + \overset{\mathbb{J}}{-1} \triangleleft \mathbb{J} \triangleleft} \subset \mathbb{J} \triangleleft^{\mathbb{J}}$$

$$\mathbb{J} \triangleleft^{\mathbb{J}} \ni \mathbb{J} \Rightarrow \mathbb{J} * \mathbb{F} = \mathbb{J} \mathbb{F} - \overset{\mathbb{J}}{-1} \mathbb{F} \mathbb{J} \in \mathbb{J} \triangleleft^{\mathbb{J}}$$

$$\mathbb{J} \triangleleft^{\mathbb{J}} \ni \mathbb{J} \Rightarrow \mathbb{J} * \mathbb{F} = \mathbb{J} \mathbb{F} - \overset{\mathbb{J}}{-1} \mathbb{F} \mathbb{J} \in \mathbb{J} \triangleleft^{\mathbb{J}}$$

$$\begin{aligned} \mathbb{J} * \mathbb{F} \triangleleft &= \mathbb{J} \overbrace{\mathbb{F} \triangleleft} - \overset{\mathbb{J}}{-1} \mathbb{F} \overbrace{\mathbb{J} \triangleleft} = \mathbb{J} \overbrace{\mathbb{F} \triangleleft + \overset{\mathbb{J}}{-1} \triangleleft \mathbb{F} \triangleleft} - \overset{\mathbb{J}}{-1} \mathbb{F} \overbrace{\mathbb{J} \triangleleft + \overset{\mathbb{J}}{-1} \triangleleft \mathbb{J} \triangleleft} \\ &= \overbrace{\mathbb{J} \mathbb{F} \triangleleft} + \overset{\mathbb{J}}{-1} \overbrace{\mathbb{F} \triangleleft \mathbb{J} \triangleleft} + \overset{\mathbb{J}}{-1} \overbrace{\mathbb{J} \triangleleft \mathbb{F} \triangleleft} + \overset{\mathbb{J}}{-1} \overbrace{\triangleleft \mathbb{F} \mathbb{J} \triangleleft} \\ &\quad - \overset{\mathbb{J}}{-1} \overbrace{\mathbb{F} \mathbb{J} \triangleleft} + \overset{\mathbb{J}}{-1} \overbrace{\mathbb{J} \triangleleft \mathbb{F} \triangleleft} - \overset{\mathbb{J}}{-1} \overset{\mathbb{J}}{-1} \overbrace{\mathbb{F} \triangleleft \mathbb{J} \triangleleft} + \overset{\mathbb{J}}{-1} \overbrace{\triangleleft \mathbb{F} \mathbb{J} \triangleleft} \\ &= \overbrace{\mathbb{J} \mathbb{F} \triangleleft} + \overset{\mathbb{J}}{-1} \overset{\mathbb{J}}{-1} \overbrace{\triangleleft \mathbb{F} \mathbb{J} \triangleleft} - \overset{\mathbb{J}}{-1} \overbrace{\mathbb{F} \mathbb{J} \triangleleft} - \overset{\mathbb{J}}{-1} \overset{\mathbb{J}}{-1} \overset{\mathbb{J}}{-1} \overbrace{\triangleleft \mathbb{F} \mathbb{J} \triangleleft} = \overbrace{\mathbb{J} * \mathbb{F} \triangleleft} + \overset{(\mathbb{J} + \mathbb{J})}{-1} \overbrace{\triangleleft \mathbb{J} * \mathbb{F} \triangleleft} \end{aligned}$$