

$$\mathbb{J} \triangleleft \mathbb{J} = \mathbb{J} \triangleleft \mathbb{J} = \mathbb{J} \times_{\mathbb{J}} \mathbb{J} \triangleleft \mathbb{J} \ni \rho = \rho \times 1$$

$$\mathbb{J} \triangleleft \mathbb{J} = \mathrm{hom}_{\mathbb{J}}\left(\mathbb{J} \cdot \mathbb{J} \triangleleft \mathbb{J}\right) = \mathbb{J} \times_{\mathbb{J}} \underbrace{\mathbb{J} \triangleleft \mathbb{J}}_{\mathbb{J}} \times_{\mathbb{J}} \mathbb{J}$$