

$$\mathfrak{P}_\infty \mathbb{R} \xleftarrow{\text{Pois}} \mathfrak{P}_\infty \mathbb{R} \rtimes \mathfrak{P}_\infty \mathbb{R}$$

$$\mathbb{J} \times \mathbb{J} = \underline{\mathbb{J}} \rtimes \mathbb{J} = \underline{\mathbb{J}} \underline{\mathbb{J}}$$

$$\underbrace{\mathbb{J} \times \mathbb{J}}_m = \underbrace{\underline{\mathbb{J}} \rtimes \mathbb{J}}_m = \underline{\mathbb{J}}^m \mathbb{J} = \underline{\mathbb{J}}^m \underline{\mathbb{J}}^m = \underbrace{\underline{\mathbb{J}} \underline{\mathbb{J}}}_m$$

$$\underline{\mathbb{J}} \rtimes \underline{\mathbb{J}} = \underline{\mathbb{J}} \times \underline{\mathbb{J}}$$

$$\mathbb{J} \times \mathbb{J} = \begin{bmatrix} d\mathbb{J} \\ d\mathbb{J} \end{bmatrix} \mathbb{J} = \overline{d\mathbb{J}} \rtimes \mathbb{J}$$

$$d\mathbb{J} \times \underline{\mathbb{J}} = \overline{d\mathbb{J}} \times \underline{\mathbb{J}}$$

$$\overline{d\mathbb{J} \times \underline{\mathbb{J}}} = \overline{d\mathbb{J}} \times \overline{\underline{\mathbb{J}}}$$

$$\begin{aligned} d\mathbb{J} \times \underline{\mathbb{J}} &= \overline{d\mathbb{J}} \rtimes \underline{\mathbb{J}} - \overline{\underline{\mathbb{J}}} \rtimes d\mathbb{J} + d \begin{bmatrix} d\mathbb{J} \\ d\mathbb{J} \end{bmatrix} \underline{\mathbb{J}} \\ &= d \overline{d\mathbb{J}} \rtimes \underline{\mathbb{J}} - d \overline{\underline{\mathbb{J}}} \rtimes \mathbb{J} + d \underline{\mathbb{J}} \times \mathbb{J} = d \underline{\mathbb{J}} \times \underline{\mathbb{J}} - \underline{\mathbb{J}} \times \mathbb{J} + \underline{\mathbb{J}} \times \mathbb{J} \end{aligned}$$