

$$\mathbb{R} \times \mathbb{R}^d / x_1 \cdots x_k \triangleleft \mathbb{R} / + = \sum_{g \geq 0}^{\mathbb{N}} \frac{\varkappa^g}{g!} \sum_{\mathbb{G}}^{\partial \mathbb{G} = k} \mathbb{G} / k \triangleleft \mathbb{R}^{1:d} / x_1 \cdots x_k$$

\mathbb{G} graph mit V-top

$$\begin{aligned} \mathbb{R} \times \mathbb{R}^d / x_1 \cdots x_k \triangleleft \mathbb{R} / + &= \partial_{x_1} \cdots \partial_{x_k} \exp \left(\varkappa \int^{\text{dy}} \bar{\mathcal{L}}(\partial_y) \right) Z_0 \\ &= \sum_{g \geq 0}^{\mathbb{N}} \frac{\varkappa^g}{g!} \underbrace{\partial_{x_1} \cdots \partial_{x_k} \int^{\text{dy}_1} \cdots \int^{\text{dy}_g} \bar{\mathcal{L}}(\partial_{y_1}) \cdots \bar{\mathcal{L}}(\partial_{y_g})}_{\text{Wick}} Z_0 \end{aligned}$$