

$$C^{\infty}_{\mathbb{R}} \supset C^{\infty}_{\mathbb{R}} \supset C^{\infty}_{\mathbb{R}}$$

$$C^{\infty}_{\mathbb{R}} = C^* \frac{\ell}{\varphi \in C^{\infty}_{\mathbb{R}}}$$

$$\varphi^{\infty}_{\alpha} = \sum_{\beta \leq \alpha} \varphi_{\beta} = \sum_{\alpha - \mathbb{R}_+} \varphi$$