

$$C^{\infty}_{\mathbb{Z}} \supset C^{\dot{\infty}}_{\mathbb{Z}} \supset C^{\infty}_{\mathbb{Z}}$$

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

$$\varphi^{\dot{\infty}}_{\alpha} = \sum_{\beta \leq \alpha} \varphi_{\beta} = \sum_{\alpha - d\mathbb{N}} \varphi$$