

$$\mathfrak{h}_{-\infty}^m \Phi = \Phi_{-\infty}^m \mathfrak{h}_{-\infty} \Phi \ni \mathfrak{q}$$

$$\mathfrak{h}_{-\infty}^m \mathbb{1} = \Phi_{-\infty}^m \mathfrak{h}_{-\infty} \mathbb{1}$$

$$\mathfrak{h}_{-\infty}^{\mathbb{N}} \mathbb{1} = \sum_m \mathfrak{h}_{-\infty}^m \mathbb{1}$$

$$\mathfrak{h}/\mathfrak{h}_0_{-\infty}^m \mathbb{1} = \Phi_{-\infty}^m \mathfrak{h}/\mathfrak{h}_0_{-\infty} \mathbb{1}$$

$$\mathfrak{h} \subset \mathfrak{h} \subset \mathfrak{h} \Rightarrow \mathfrak{h}/\mathfrak{h} \xrightarrow{\iota} \mathfrak{h}/\mathfrak{h} \xrightarrow{\mathcal{J}} \mathfrak{h}/\mathfrak{h}$$

$$\Rightarrow 0 \leftarrow \mathfrak{h}/\mathfrak{h}_{-\infty}^m \mathbb{1} \xleftarrow{\iota^\sharp} \mathfrak{h}/\mathfrak{h}_{-\infty}^m \mathbb{1} \xleftarrow{\mathcal{J}^\sharp} \mathfrak{h}/\mathfrak{h}_{-\infty}^m \mathbb{1} \leftarrow 0$$

exact GODE/39 45