

$$\mathfrak{A} \in \begin{cases} \mathfrak{h} \triangleleft_{-0}^m \Phi = \Phi \triangleleft_s^m \mathfrak{h} \triangleleft \Phi \\ \mathfrak{h} \triangleleft_{-s}^m \Phi = \Phi \triangleleft_s^m \mathfrak{h} \triangleleft \Phi \end{cases}$$

$$\begin{cases} \mathfrak{h} \triangleleft_{-0}^m \mathbb{1} = \Phi \triangleleft_s^m \mathfrak{h} \triangleleft \mathbb{1} \\ \mathfrak{h} \triangleleft_{-s}^m \mathbb{1} = \Phi \triangleleft_s^m \mathfrak{h} \triangleleft \mathbb{1} \end{cases}$$

$$\begin{cases} \mathfrak{h} \triangleleft_{-0}^{\mathbb{N}} \mathbb{1} = \sum_m \mathfrak{h} \triangleleft_{-0}^m \mathbb{1} \\ \mathfrak{h} \triangleleft_{-s}^{\mathbb{N}} \mathbb{1} = \sum_m \mathfrak{h} \triangleleft_{-s}^m \mathbb{1} \end{cases}$$

$$\begin{cases} \mathfrak{h}/\mathfrak{h}_0 \triangleleft_{-0}^m \mathbb{1} = \Phi \triangleleft_s^m \mathfrak{h}/\mathfrak{h}_0 \triangleleft \mathbb{1} \\ \mathfrak{h}/\mathfrak{h}_0 \triangleleft_{-s}^m \mathbb{1} = \Phi \triangleleft_s^m \mathfrak{h}/\mathfrak{h}_0 \triangleleft \mathbb{1} \end{cases}$$

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

$$\Rightarrow \begin{cases} 0 \leftarrow \mathfrak{h}/\mathfrak{h} \triangleleft_{-0}^m \mathbb{1} \xleftarrow{\iota^\sharp} \mathfrak{h}/\mathfrak{h} \triangleleft_{-0}^m \mathbb{1} \xleftarrow{J^\sharp} \mathfrak{h}/\mathfrak{h} \triangleleft_{-0}^m \mathbb{1} \leftarrow 0 & \text{exact GODE/39 45} \\ 0 \leftarrow \mathfrak{h}/\mathfrak{h} \triangleleft_{-s}^m \mathbb{1} \xleftarrow{\iota^\sharp} \mathfrak{h}/\mathfrak{h} \triangleleft_{-s}^m \mathbb{1} \xleftarrow{J^\sharp} \mathfrak{h}/\mathfrak{h} \triangleleft_{-s}^m \mathbb{1} \leftarrow 0 & \text{exact GODE/39 45} \end{cases}$$