

$$\begin{array}{ccc}
\mathbb{I}^{2^Q} & \cong & \mathbb{I}^I \\
\downarrow \mathcal{V}^\bullet & & \downarrow \\
\mathbb{L}_{\triangle}^{-\mathbb{N}} \mathbb{I} & \cong & \mathbb{V}_I^I \mathbb{I}
\end{array}$$

$$\mathbb{L}_{\triangle}^{-\mathbb{N}} \mathbb{I} = \mathbb{L}_{\triangle}^{-\mathbb{N}} \mathbb{K} \mathbb{I}$$

$$\mathcal{V}^1 \dots \mathcal{V}^q \in \mathbb{L}_{\triangle}^{-\geq 1} \mathbb{I} \text{ nilpotent}$$

$$\mathcal{V}^j = \mathbb{L}_I^I \mathcal{V}^j$$

$$\mathcal{V}^j = \mathbb{L}_I^I \mathcal{V}^j = \mathbb{L}_i^i \mathcal{V}^j + \sum_{|I| > 1} \mathbb{L}_I^I \mathcal{V}^j = \mathbb{L}_i^i \mathcal{V}^j + \check{\mathcal{V}}^j$$

$$\deg(\mathcal{V}^j - \mathbb{L}_i^i \mathcal{V}^j) = \deg \check{\mathcal{V}}^j \geq 2$$

$$\mathbb{L}_i^i \mathcal{V}^j \in \mathbb{I}_0$$

$$\det \mathcal{V} \in \mathbb{I}_0^c \text{ inv}$$

$$\mathcal{V} \in \mathbb{I}_0^c \text{ inv}$$