

$$\begin{aligned}
& \mathbb{G}_j Z \triangleleft_{\varphi} \mathcal{L}_\ell \xleftarrow{\simeq} Z \triangleleft_{\varphi} \overset{e^{j_0}}{\mathbb{C}} \\
\mathbb{G}_j Z \times \mathcal{L}_\ell &= \begin{cases} S_j \times \mathbb{C} \\ c: \xi \simeq ck: {}^{ck} N_c \end{cases} \\
& \mathbb{G}_j Z \triangleleft_{\varphi} \mathcal{L}_\ell
\end{aligned}$$