

$$\begin{array}{ccccc}
n\mathbb{K} & \xrightarrow{\cong} & \mathfrak{G}|_{2^n\mathbb{K}} & \xleftarrow{\cong} & \mathbb{K}^n \\
\downarrow \mathcal{L} & & \downarrow \text{Ad}\mathcal{L}^\bullet & & \downarrow \mathcal{L} \\
\mathcal{L}\triangleleft\mathbb{K} & \xrightarrow{\cong} & \mathfrak{G}|_{\mathcal{L}\triangleleft\mathbb{K}} & \xleftarrow{\cong} & \mathcal{L}
\end{array}$$

$$\begin{array}{ccccc}
n\mathbb{K} & \xrightarrow{\cong} & \mathfrak{U}|_{2^n\mathbb{K}} & \xleftarrow{\cong} & \mathbb{K}^n \\
\downarrow \mathcal{L} & & \downarrow \text{Ad}\mathcal{L}^\bullet & & \downarrow \mathcal{L} \\
\mathcal{L}\triangleleft\mathbb{K} & \xrightarrow{\cong} & \mathfrak{U}|_{\mathcal{L}\triangleleft\mathbb{K}} & \xleftarrow{\cong} & \mathcal{L}
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\end{array}$$