

$$\begin{array}{ccc}
 i \geq 0 : & U_{L,i}/U_{L,i+1} & \xrightarrow{\sim} \ell^+ \\
 & \downarrow N & \downarrow \text{Tr} \\
 & U_{K,i}/U_{K,i+1} & \xrightarrow{\sim} \mathbb{k}^+
 \end{array}$$

$$\begin{array}{ccc}
 i = 0 : & U_{L,0}/U_{L,1} & \xrightarrow{\sim} \ell^* \\
 & \downarrow N & \downarrow N \\
 & U_{K,0}/U_{K,1} & \xrightarrow{\sim} \mathbb{k}^*
 \end{array}$$