

$$\sigma \in \mathbb{K}^U \Rightarrow \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{n_{\mathbb{K}^C} \times n} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right. \xrightarrow{\text{unit}} \xrightarrow{1:1} \xrightarrow{1:1} n_{\mathbb{K}^U} \mathbb{K}_n$$

$$= \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{\Gamma} \underbrace{\frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right. \xrightarrow{\Gamma} \frac{1}{0} \left| \begin{array}{c} 0 \\ -1 \end{array} \right. \xrightarrow{\Gamma} \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{\Gamma} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right.}_{\frac{0}{1} \left| \begin{array}{c} 1 \\ 0 \end{array} \right.} \xrightarrow{\Gamma} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right. = \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{\Gamma} \frac{0}{1} \left| \begin{array}{c} 1 \\ 0 \end{array} \right. \xrightarrow{\Gamma} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right.$$

$$= \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{\underbrace{\Gamma \xrightarrow{\Gamma^{-1}}}_{\frac{1}{0} \left| \begin{array}{c} 0 \\ 1 \end{array} \right.}} \frac{0}{1} \left| \begin{array}{c} 1 \\ 0 \end{array} \right. \xrightarrow{\Gamma} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right. = \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{\Gamma} \frac{0}{1} \left| \begin{array}{c} 1 \\ 0 \end{array} \right. \xrightarrow{\Gamma} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right. = \frac{1}{0} \left| \begin{array}{c} 0 \\ -1 \end{array} \right.$$

$$\xrightarrow{\Gamma} \times \frac{1}{0} \left| \begin{array}{c} 0 \\ -1 \end{array} \right. = 0 \Rightarrow \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{\Gamma} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right. \times \frac{0}{\varkappa\bar{\sigma}\sigma} \left| \begin{array}{c} \bar{\sigma}\varkappa\sigma \\ 0 \end{array} \right. = 0$$

$$= \varkappa \frac{\bar{\sigma}}{\varkappa\bar{\sigma}} \left| \begin{array}{c} \bar{\sigma} \\ -\varkappa\bar{\sigma} \end{array} \right. \xrightarrow{\Gamma} \frac{1}{0} \left| \begin{array}{c} 0 \\ -1 \end{array} \right. \xrightarrow{\Gamma} \frac{\sigma}{\sigma} \left| \begin{array}{c} \varkappa\sigma \\ -\varkappa\sigma \end{array} \right.$$

$$\frac{1}{-1} \left| \begin{array}{c} 1 \\ 1 \end{array} \right. \xrightarrow{n_{\mathbb{K}^C} \times n} \frac{1}{1} \left| \begin{array}{c} -1 \\ 1 \end{array} \right. \cong \frac{\Gamma + \Gamma^{-1}}{\Gamma^{-1} - \Gamma} \left| \begin{array}{c} \Gamma^{-1} - \Gamma \\ \Gamma + \Gamma^{-1} \end{array} \right.$$