

$$\begin{array}{ccccc}
K_2 & \xrightarrow{\varphi_2} & K_2(\beta) & \xhookrightarrow{\iota_2} & L_2 \\
\downarrow \sigma & & \downarrow \tau & & \\
K_1 & \xrightarrow{\varphi_1} & K_1(\alpha) & \xhookrightarrow{\iota_1} & L_1
\end{array}$$