$$\begin{array}{c}
\stackrel{\binom{i_X}{l_{i_X}}}{\longrightarrow} X \oplus K \xrightarrow{(p_X,0)} X' \\
\stackrel{\binom{w}{i_X}}{\longrightarrow} F \oplus K \xrightarrow{(q_Y,-q_Yx)} Y'
\end{array}$$

X'

a'