

Choose $m_A, n_A \in \mathbb{Z}$

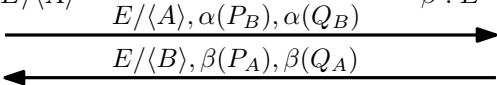
$$A := m_A P_A + n_A Q_A$$

$$\alpha : E \rightarrow E/\langle A \rangle$$

Choose $m_B, n_B \in \mathbb{Z}$

$$B := m_B P_B + n_B Q_B$$

$$\beta : E \rightarrow E/\langle B \rangle$$



key: $E/\langle B \rangle/\langle A' \rangle = E_{BA} \cong E_{AB}, \quad A' = m_A \beta(P_A) + n_A \beta(Q_A)$