Alice — Elliptic Curve E — Bob
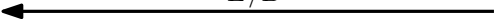
Choose finite $A \leq E$ Choose finite $B \leq E$

$E/A \longrightarrow$

$\longleftarrow E/B$

Compute $E/\langle A, B \rangle$ Compute $E/\langle A, B \rangle$