Fast pairings Sogeny crypto





fast pairings

Optimized pairing computation for the specific scenario $P \in E(\mathbb{F}_p), Q \in E^t(\mathbb{F}_p)$



core idea

For $P \in E(\mathbb{F}_p)$ and $Q \in E^t(\mathbb{F}_p)$, don't use curve arithmetic but pairing e(P,Q) to get overlap in orders!

Faster isogeny subroutines

