2

NextBit(r)

Dbl(T, f, Q)

Add(T, f, P, Q)

Speeding-up general pairings

general notice

Computing pairings fast is quite technical. Better suited for papers than slides

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!

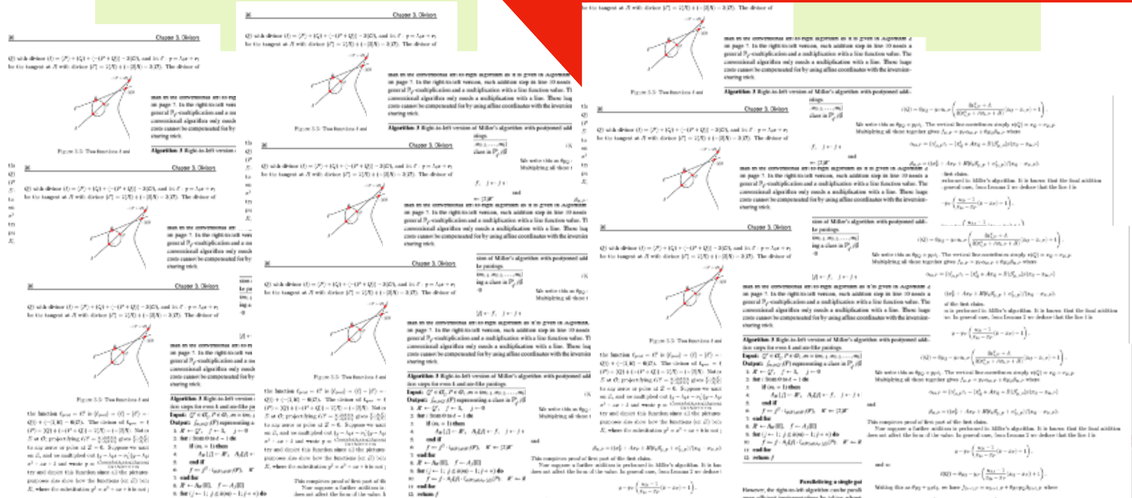
general approach

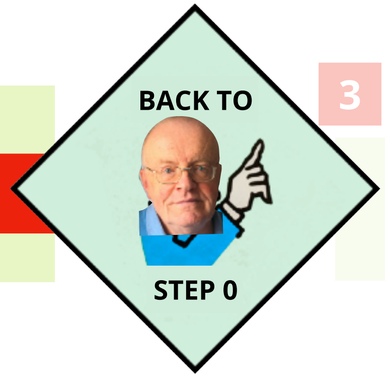
Instead I describe the general approach, and leave all details out

0 take some literature

1

2





3 fast pairings

2

NextBit(r)

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Speeding-up general pairings

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✓

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take some literature

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BACK TO

STEP 0

3

fast pairings