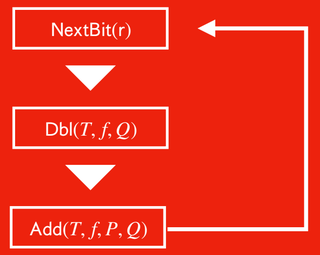
2



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!

✓

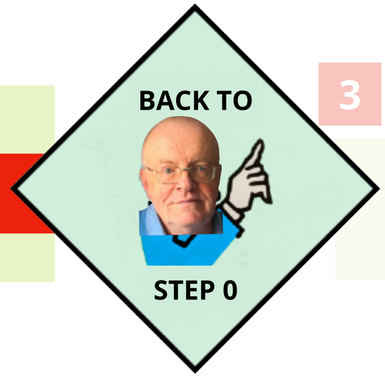
general approach

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

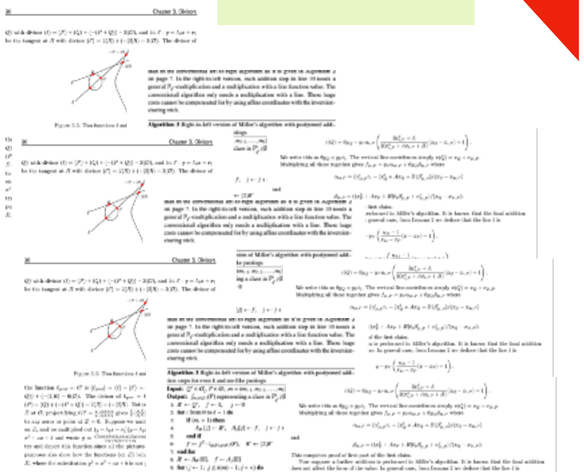
0 take some literature

1

2



3 fast pairings



Radboud University

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

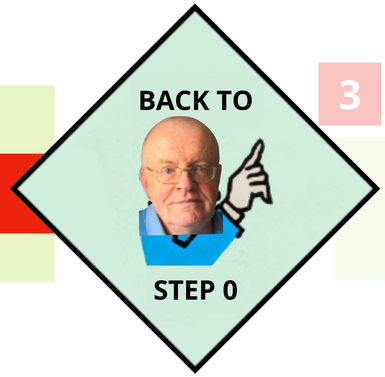
Instead I describe the general approach, and leave all details out

0 take some literature

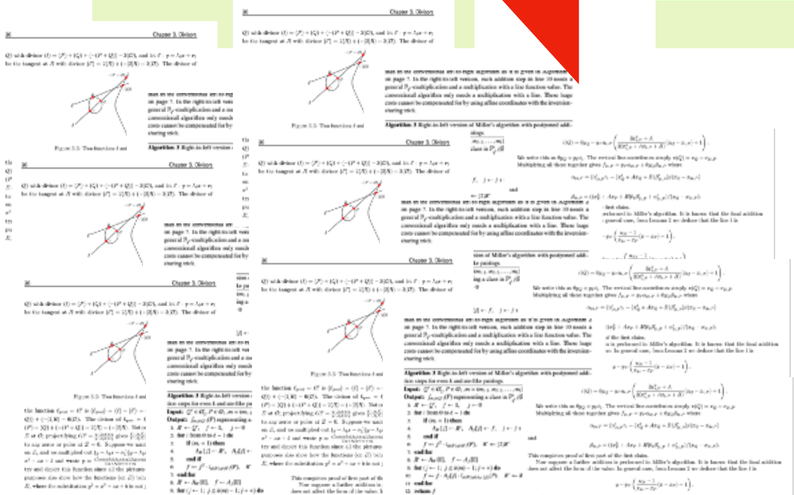
1

2

BACK TO STEP 0



3 fast pairings



Radboud University