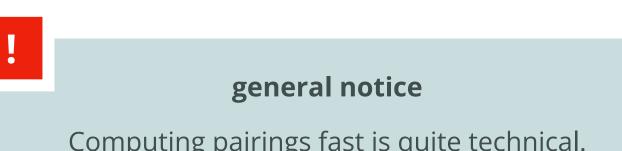


 $\beta_{(i-1),i'} = (s_{(i,j')} + \beta_{(i,j')}t_1)/(s_{(i')} - s_{(i-1),i'}).$ 



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



## general approach

core idea

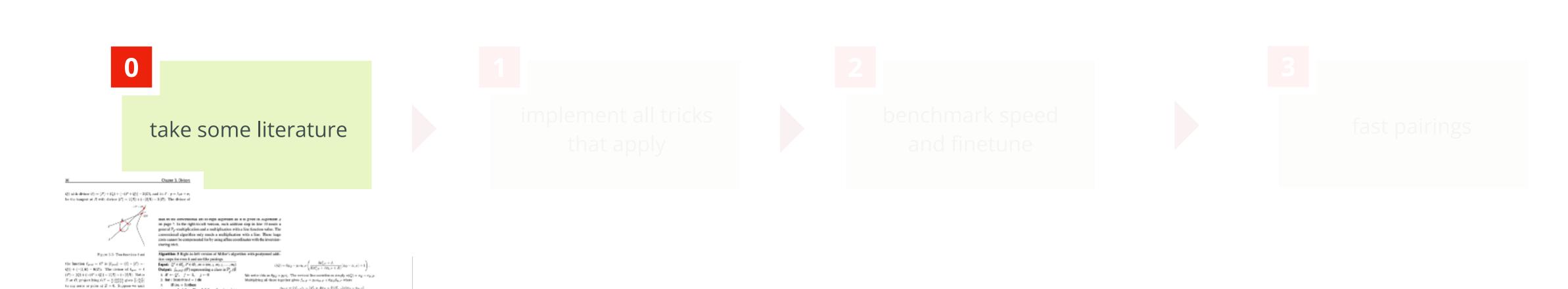
For  $P \in E(\mathbb{F}_p)$  and  $Q \in E^t(\mathbb{F}_p)$ ,

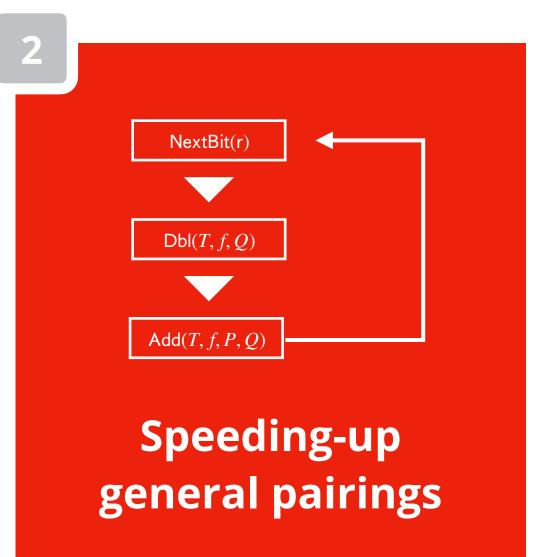
don't use curve arithmetic

but pairing e(P, Q) to get

overlap in orders!

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







 $\beta_{(i-1),i'} = (s_{(i,j')} + \beta_{(i,j')}t_1)/(s_{(i')} - s_{(i-1),i'}).$ 



## 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

