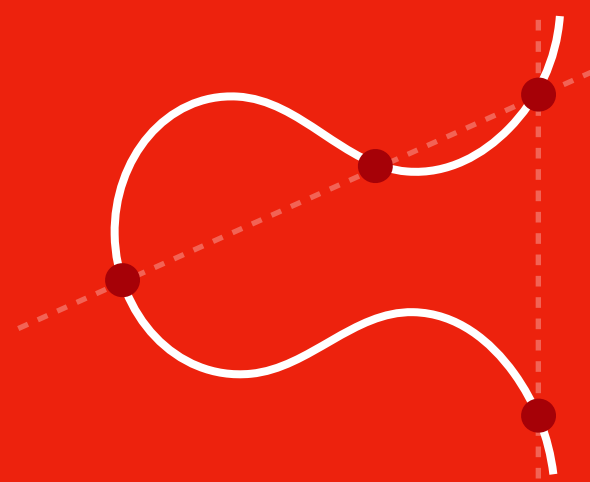


**Hence, fast pairings  
means fast solutions**

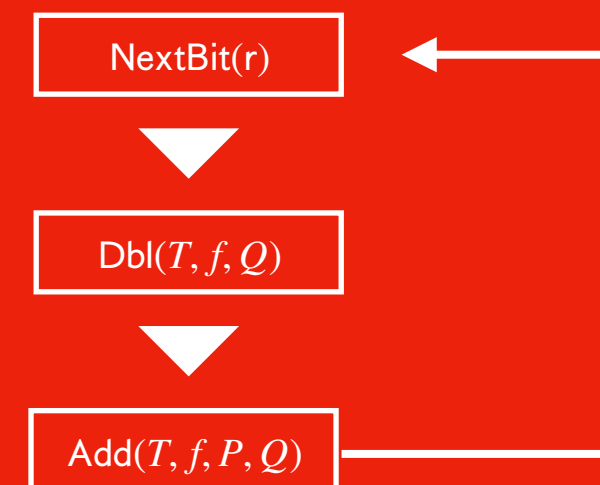
# Effective Pairings in Isogeny-based Cryptography

1



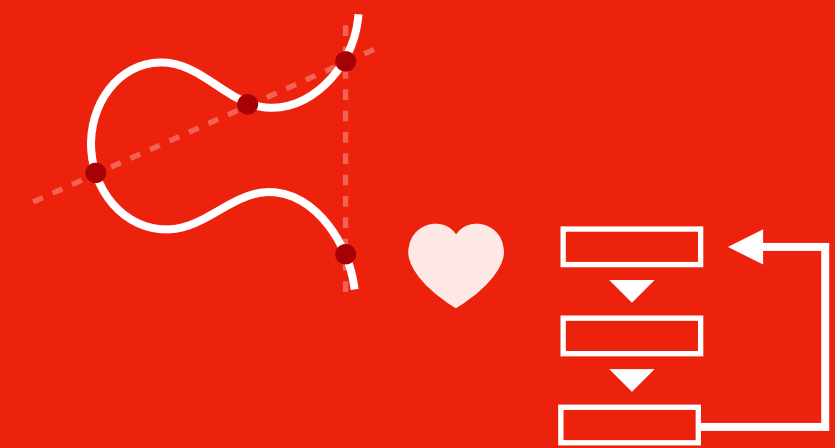
**Isogenies  
& Pairings**

2



**Speeding-up  
general pairings**

3



**Applying pairings  
in isogeny crypto**