## The agenda for today





PART 3
Generalisations



## PART 3 Generalisations

**Definition 5.** Let  $f: A \to B$  be a separable isogeny between abelian varieties over a finite field k. Let  $(\ker f)(k)$  be of type  $\delta$  with associated basis  $\langle P_1, \ldots, P_r \rangle$ . The generalised f-Tate profile  $t_{\ker f}$  is the map

 $t_{\ker f}: (\operatorname{coker} \hat{f})(k) \rightarrow \mu_{\delta}, \qquad Q \mapsto (t_f(P_1, Q), ..., t_f(P_r, Q)).$ 



Man at the Street (2003)