

differential privacy,
but at what cost?

for any A, r, S ,

$$\Pr[M(A) = S] \leq \exp(\epsilon) \times \Pr[M(A \pm r) = S].$$

for any A, B, S ,

$$\Pr[M(A) = S] \leq \exp(\epsilon \times |A-B|) \times \Pr[M(B) = S].$$

**Strong bounds for similar input data.
Loose bounds for dissimilar data.**

but what costs?

differential privacy,



Smooth transition from protection of small

groups to disclose are about large groups.

Controlled day under multiple questions.

No cryptographic assumptions. (future proof)

No assumptions about attacker methodology.