

Upper Bounds

- With n^2 linear measurements, can read entire matrix

- 1 round and n^2 linear measurements suffice

- $O(\log n)$ iterations of power method suffice

- $O(\log n)$ rounds and n^k linear measurements per round suffice

What is the measurement vs. trade?

• Nothing is known for linear measurements

Upper Bounds

- With n^2 linear measurements, can read entire matrix
 - 1 round and n^2 linear measurements suffice
- $O(\log n)$ iterations of power method suffice
 - $O(\log n)$ rounds and nk linear measurements per round suffice
- What is the measurements-vs-rounds tradeoff?
 - Nothing is known for linear measurements

Our Result