Result ur

Theorem [K, Woodruff NeurlPS '23]: Any algorithm using $n^{2-\beta}$ linear measurements per round must run for $\Omega(\log n/\log\log n)$ rounds to output B satisfying

$$||A - B|| \le 2\sigma_{k+1}(A)$$

Essentially, no intermediate tradeoff!

Our Result

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Proof Ideas