

Our Result

Theorem [K, Woodruff NeurIPS '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

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

• **Essentially, no intermediate tradeoff!**

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Proof Ideas