

Next Steps

- See if similar techniques can be employed to study matrix-vector product lower bounds for

- Current algorithms use $\mathcal{O}(k/\sqrt{\varepsilon})$ matrix-vector products

- Tight for $k = 1$ [Bakshi, Narayan '23]

- Extending it to all k ?

$$\|A-B\|_2 \leq (1+\varepsilon)\sigma_{k+1}(A)$$

Next Steps

- See if similar techniques can be employed to study matrix-vector product lower bounds for

$$\|A - B\|_2 \leq (1 + \varepsilon)\sigma_{k+1}(A)$$

- Current algorithms use $O(k/\sqrt{\varepsilon})$ matrix-vector products
 - Tight for $k = 1$ [Bakshi, Narayanan '23]
 - Extending it to all k ?

My other works