

# Next Steps

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

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

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

# Turnstile Streaming