

a9a

$$f(X_k) - f(X^*)$$

 8×10^{-1} 7×10^{-1} 6×10^{-1} 5×10^{-1}

0

1

2

3

4

5

6

Number of oracle calls

1e7

- ZO-AccSGD: $N = 1000$; $\text{lr} = 0.06361648120413012$, $\rho = 100$, $\text{bs} = 32561$, $B = 100$
- ZO-AccSGD: $N = 1000$; $\text{lr} = 0.06361648120413012$, $\rho = 100$, $\text{bs} = 16280$, $B = 100$
- ZO-AccSGD: $N = 1000$; $\text{lr} = 0.006361648120413011$, $\rho = 100$, $\text{bs} = 32561$, $B = 100$
- ZO-AccSGD: $N = 1000$; $\text{lr} = 0.006361648120413011$, $\rho = 100$, $\text{bs} = 16280$, $B = 100$