



— SignSGD no noise     
 —  $(10, n^{-1.1})$ -DP-SignSGD no noise const lr =  $\frac{1}{10\sqrt{d}}$      
 —  $(10, n^{-1.1})$ -DP-SignSGD lr(k) =  $\frac{1}{10\sqrt{d}k^{1/5}}$