

SignSGD Lévy noise
$$(10, n^{-1.1})$$
-DP-SignSGD no noise $(10, n^{-1.1})$ -DP-SGD no noiseSignSGD normal noise $(10, n^{-1.1})$ -DP-SGD no noise $(10, n^{-1.1})$ -DP-SGD no noiseSignSGD no noise $(10, n^{-1.1})$ -DP-SGD Lévy noise $(10, n^{-1.1})$ -DP-SGD Lévy noise