

SignSGD no noise
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$$(10, n^{-1.1})\text{-DP-SignSGD momentum } 0.9 \text{ Ir} = \frac{1}{10\sqrt{d}T^{1/5}} \text{ Lévy} \qquad (10, n^{-1.1})\text{-DP-SignSGD no noise dyn Ir} = \frac{1}{10\sqrt{d}T^{1/5}} \text{ Lévy}$$

$$(10, n^{-1.1})\text{-DP-SignSGD momentum } 0.6 \text{ Ir} = \frac{1}{10\sqrt{d}T^{1/5}} \text{ Lévy}$$