Training Loss vs. Wall-clock Time for ResNet18_CIFAR10 Ablation: MILO_ablate_weight_decay 10^{0} **Optimizer** ■■ MILO weight decay 0.0001 MILO_weight_decay_0.001 **-x-** MILO_weight_decay_0.0 Loss (Training) 10^{-1} 10^{-2} 50 100 0 150 200 250 300 Time (s)

Error bands represent standard error of the mean across runs. Markers indicate run end on walltime plots.