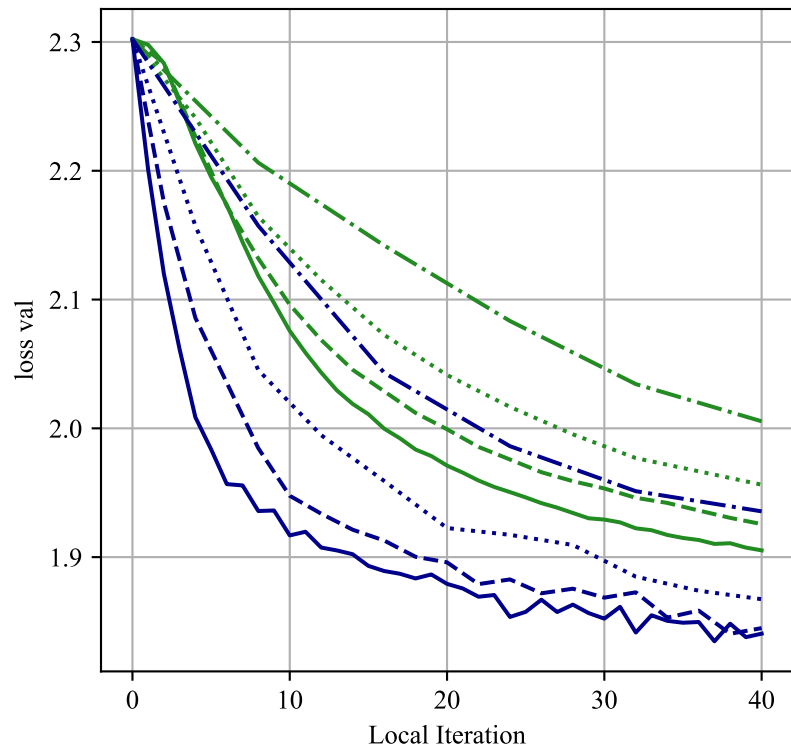


— HN-PFL  $\tau_S^L = 1 \tau_S^G = 1$     - - - HN-PFL  $\tau_S^L = 1 \tau_S^G = 2$     ··· HN-PFL  $\tau_S^L = 1 \tau_S^G = 4$     - · - HN-PFL  $\tau_S^L = 1 \tau_S^G = 8$   
 — H-FL  $\tau_S^L = 1 \tau_S^G = 1$     - - - H-FL  $\tau_S^L = 1 \tau_S^G = 2$     ··· H-FL  $\tau_S^L = 1 \tau_S^G = 4$     - · - H-FL  $\tau_S^L = 1 \tau_S^G = 8$

FMNIST loss global



FMNIST Performance Accuracy Global

