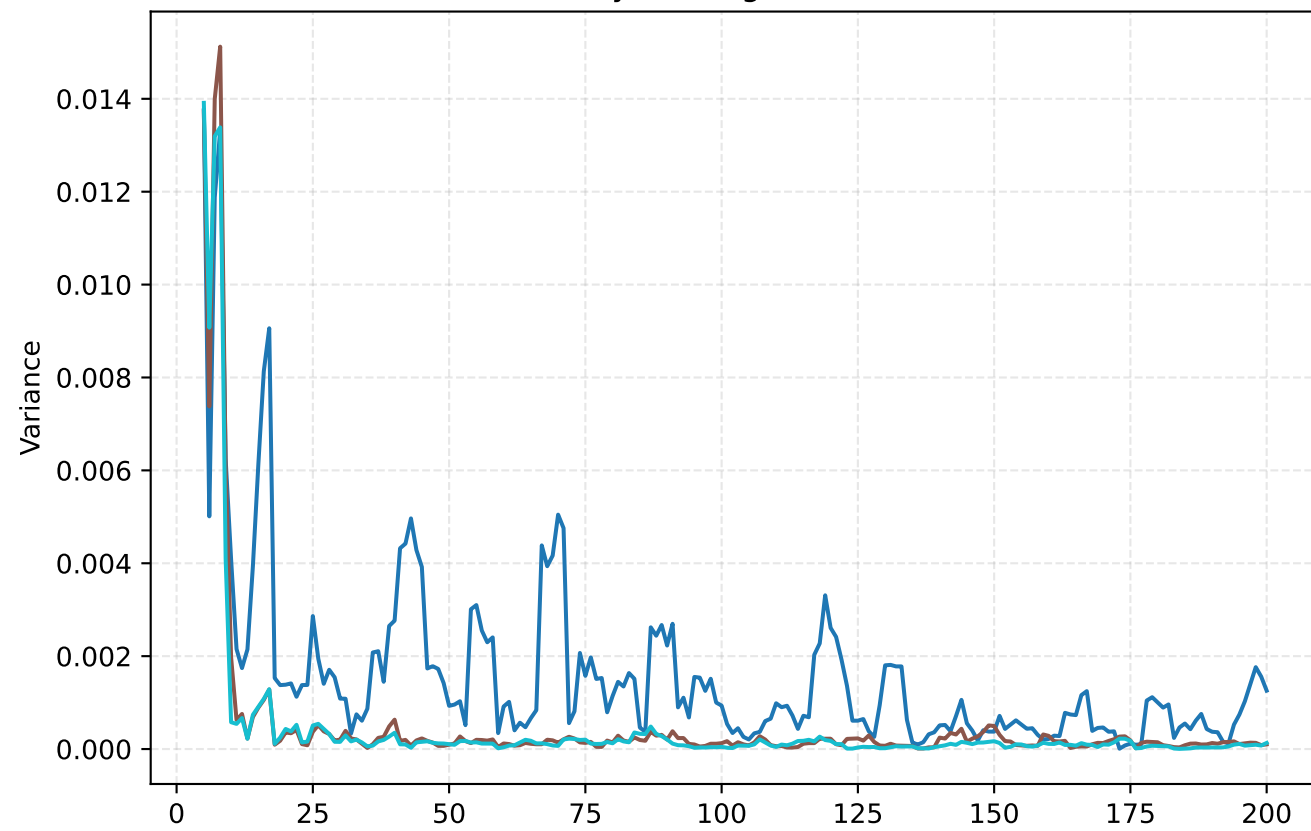
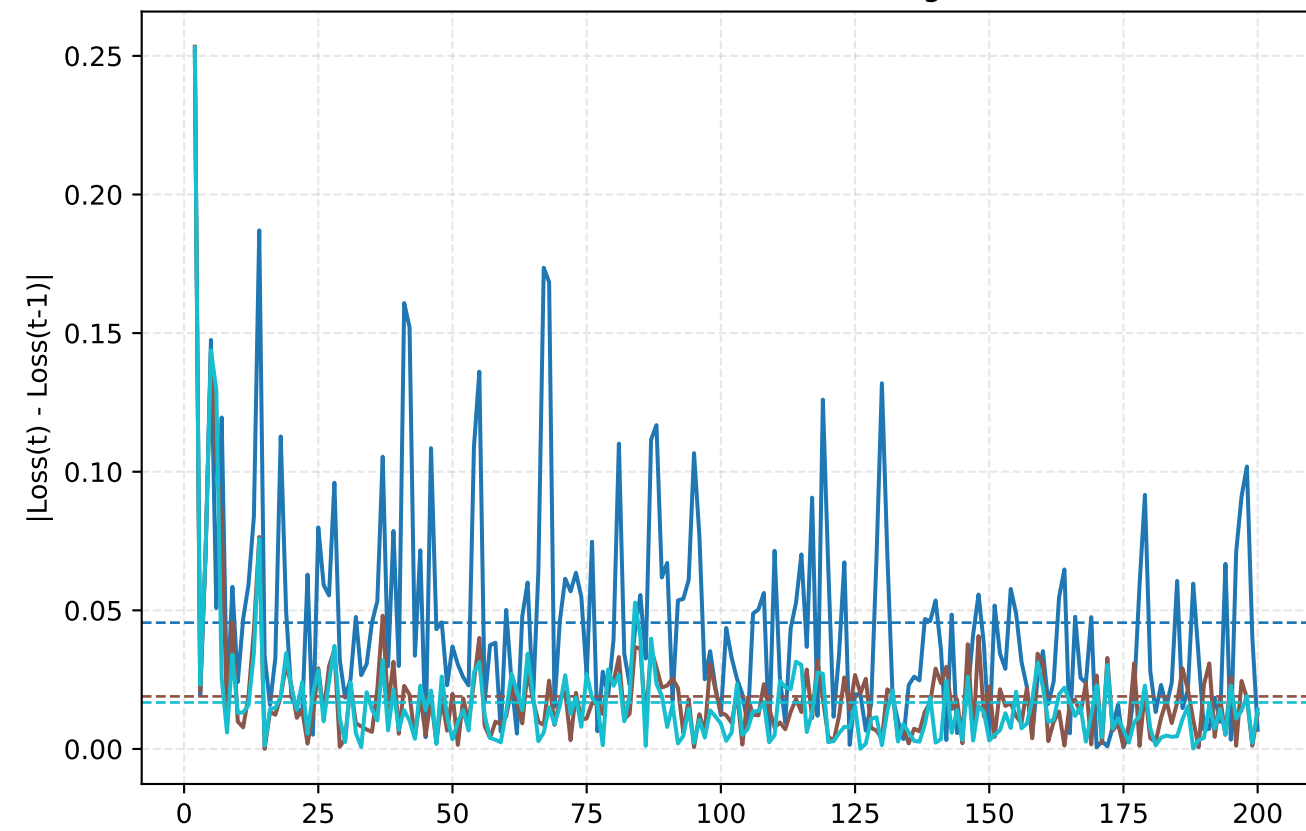


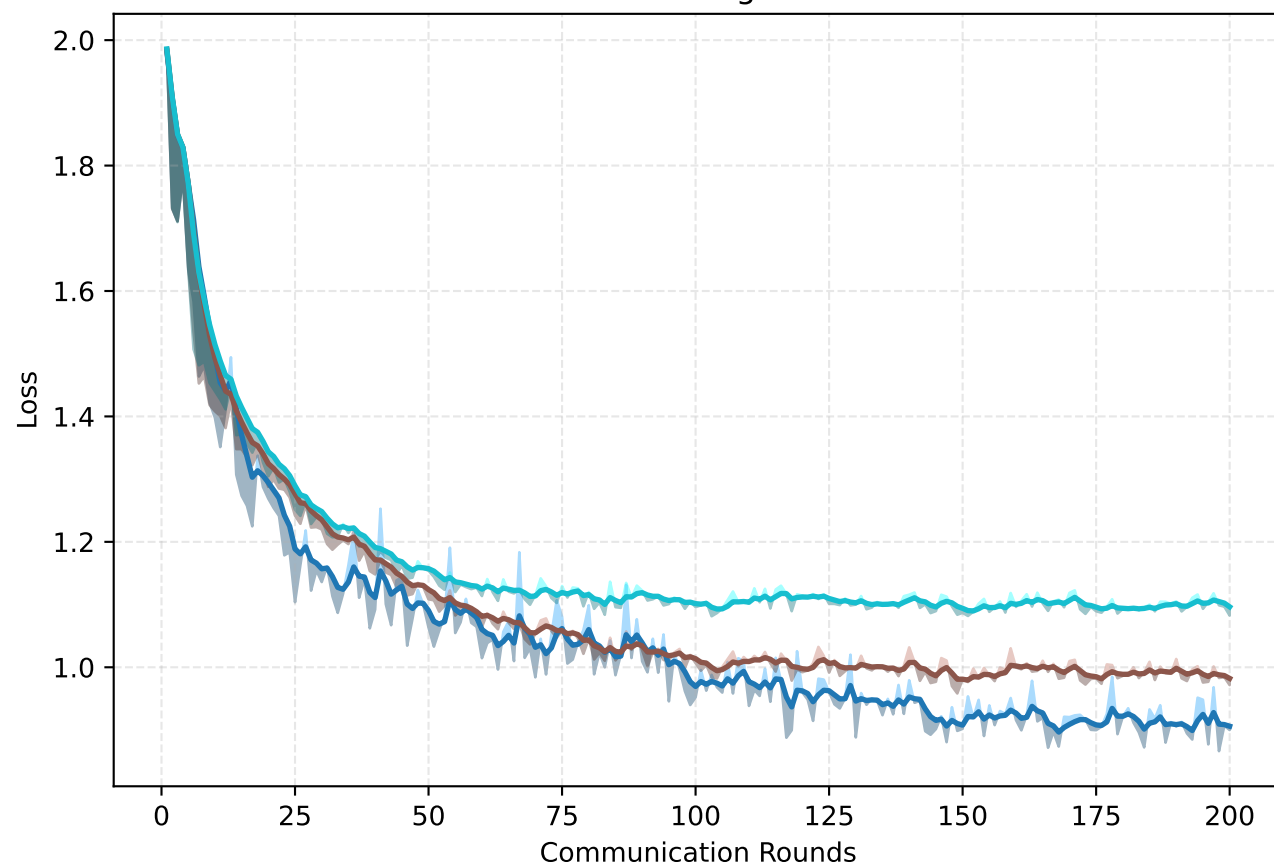
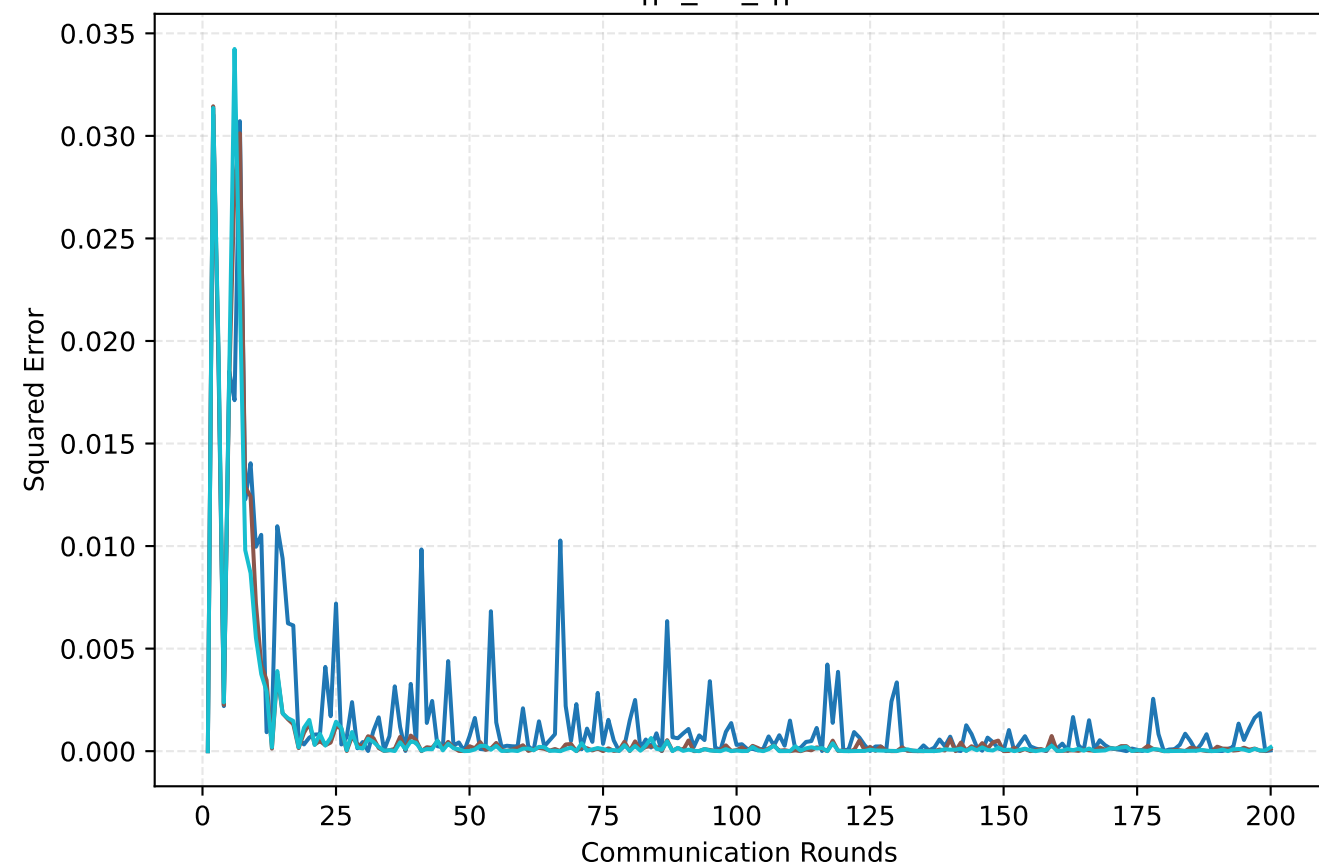
Loss Volatility (Rolling Window Variance)



Round-to-Round Loss Change



Smoothed Convergence Trends

 $||S_t - X_t||^2$ 

FedMR
CV=0.170

FedKDMR
CV=0.148

FedCodi
CV=0.114