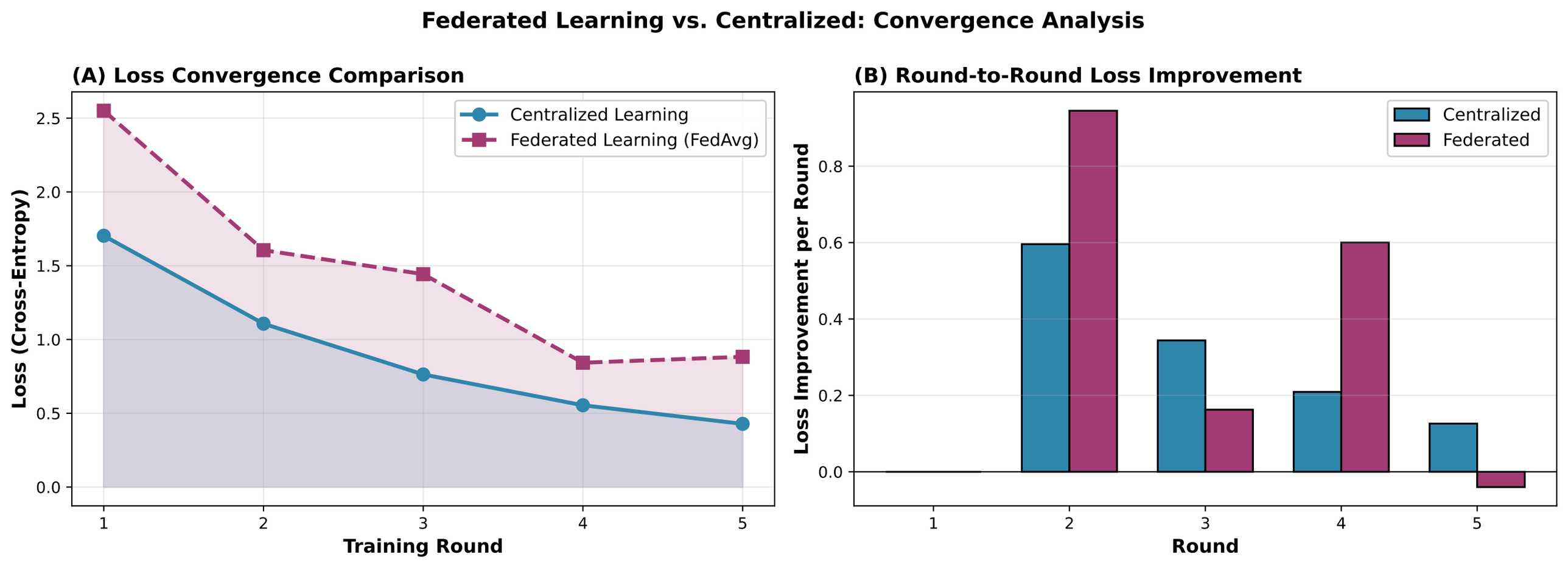
Federated Learning vs. Centralized: Convergence Analysis
(A) Loss Convergence Comparison
Centralized Learning
Federated Learning (FedAvg)
Loss (Cross-Entropy)
Training Round
(B) Round-to-Round Loss Improvement
Centralized
Federated
Loss Improvement per Round
Round