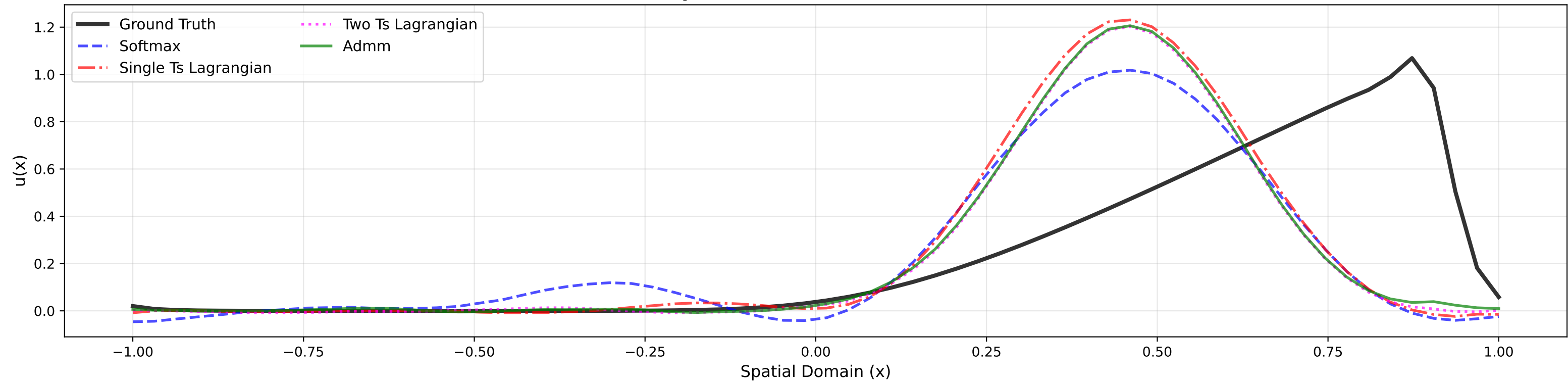
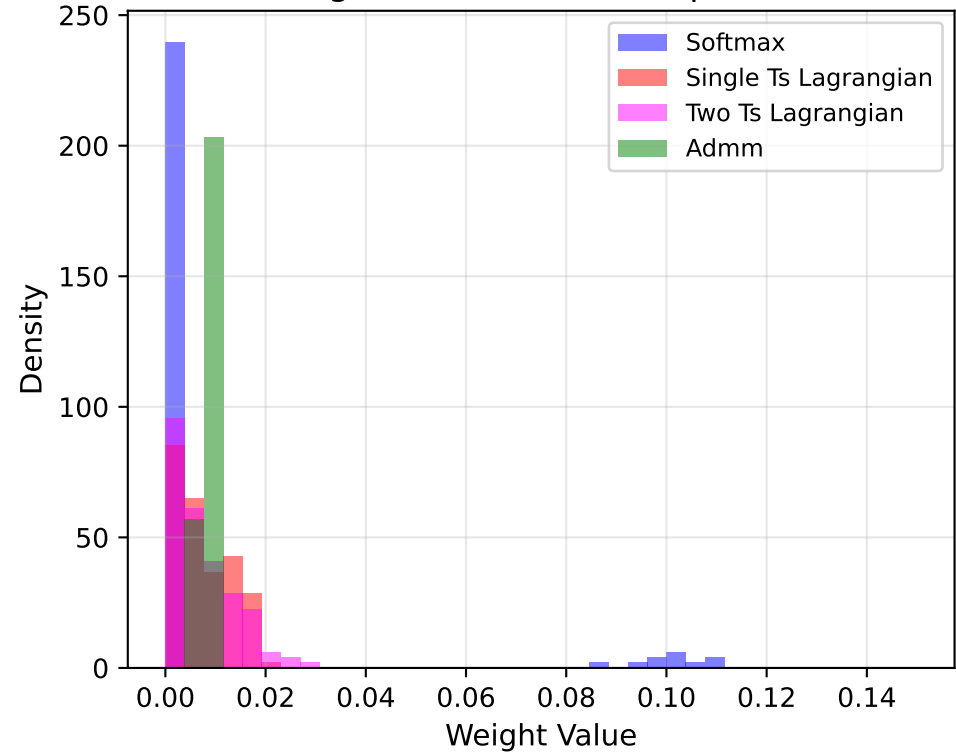


# Large-Scale Multi-Source Integration: Unified Implementation Comparison

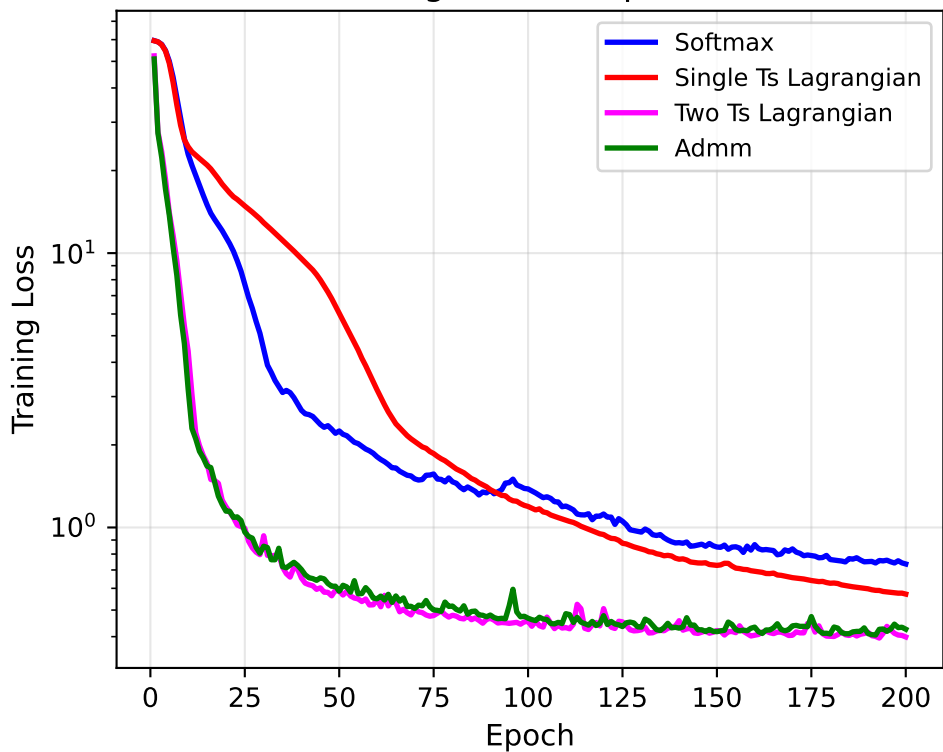
One-Step Ahead Predictions: All Methods



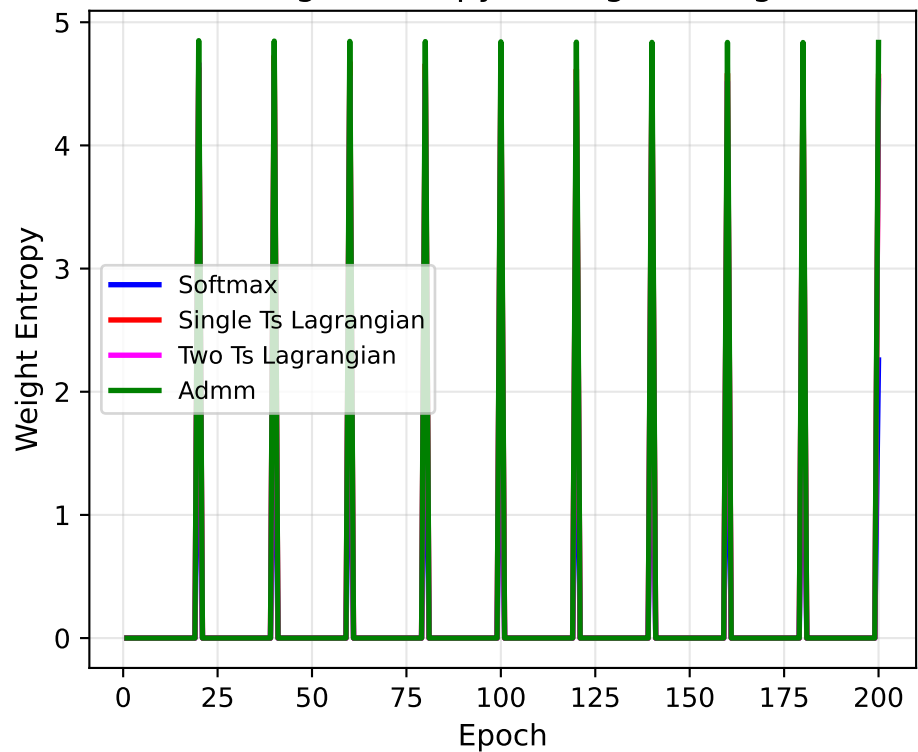
Weight Distribution Comparison



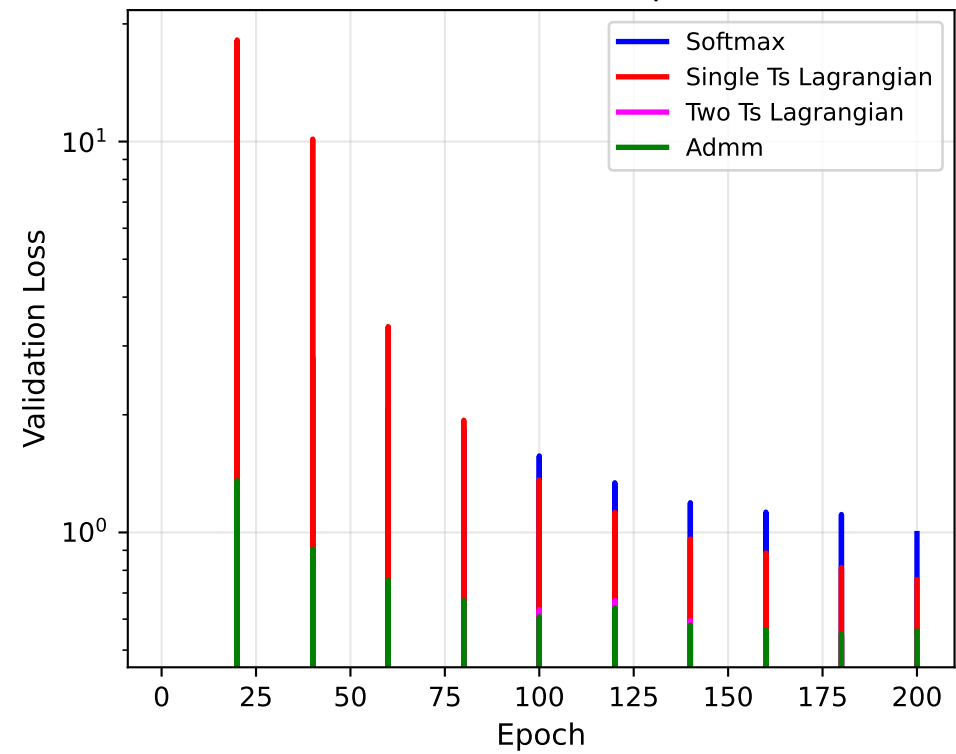
Training Loss Comparison



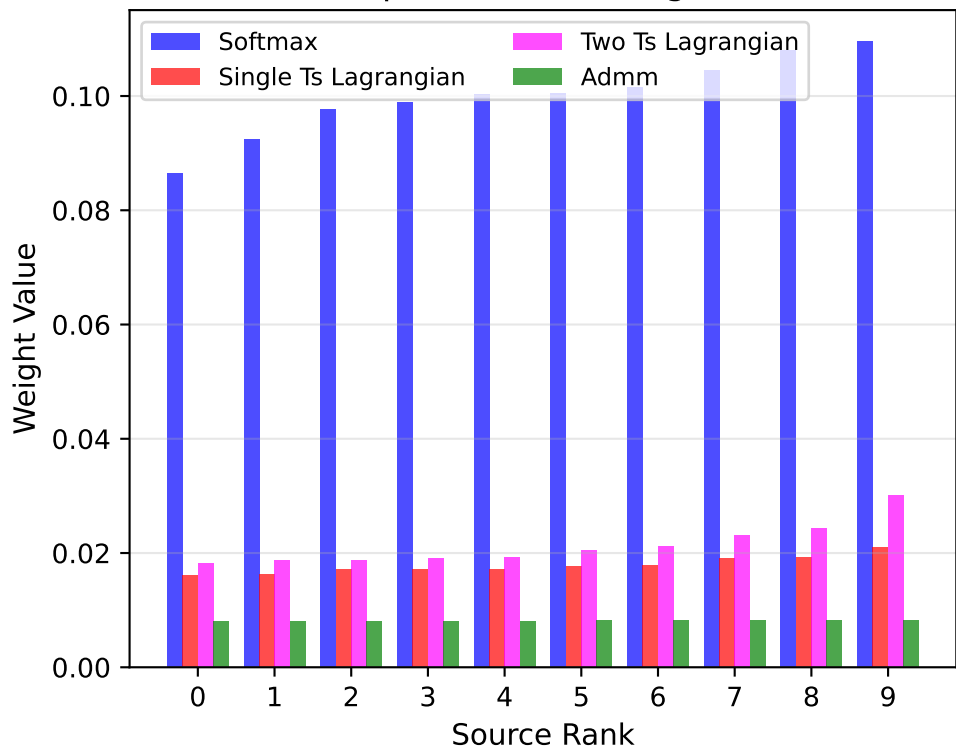
Weight Entropy During Training



Validation Loss Comparison



Top-10 Source Weights



Method Characteristics

Method	Key Feature	Constraint Handling	Timescale
Softmax	Top-K Sparsity	Implicit (softmax)	Single
Single-TS Lagrangian	Fixed Dual LR	Explicit (Lagrangian)	Single
Two-TS Lagrangian	Adaptive Dual LR	Explicit (Lagrangian)	Dual
ADMM	Variable Splitting	Explicit (ADMM)	Triple