EXPERIMENTS
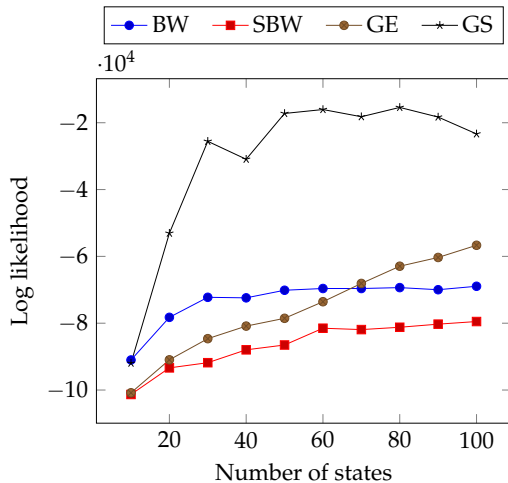
EXPERIMENTS

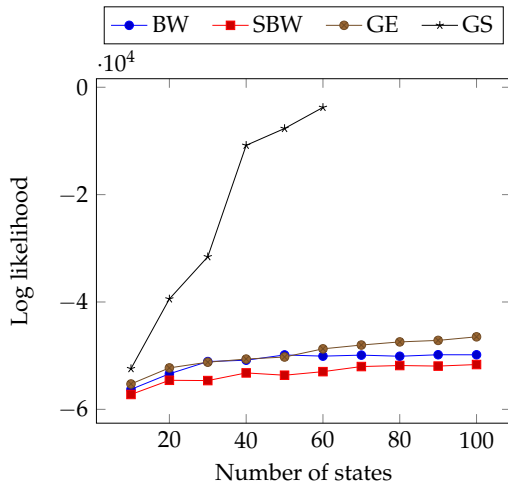- Training - 5000 sequences
- Validation - 5000 sequences
- States - 10 to 100
- How does problem characteristics affect prediction accuracy
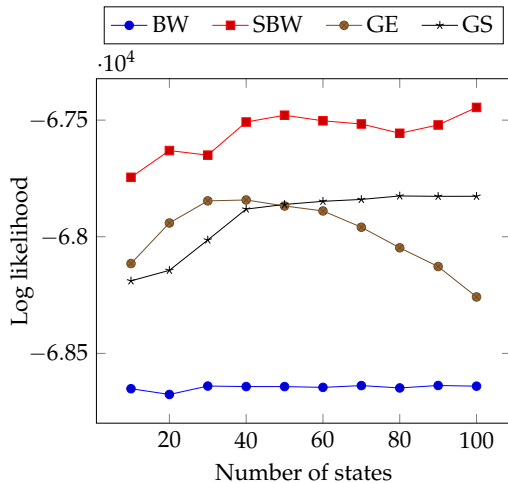- Running time comparison

STATE SPACE
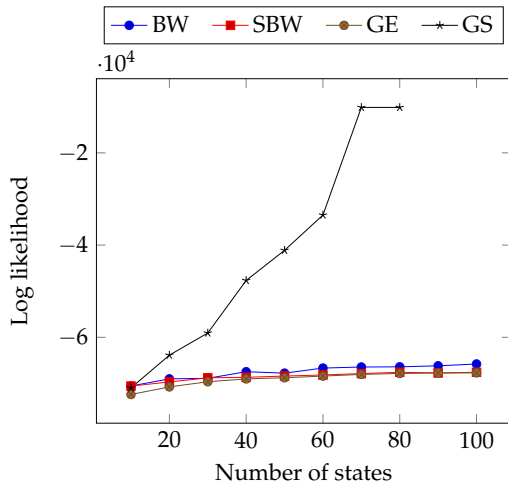

Data set: 6, States: 19

STATE SPACE

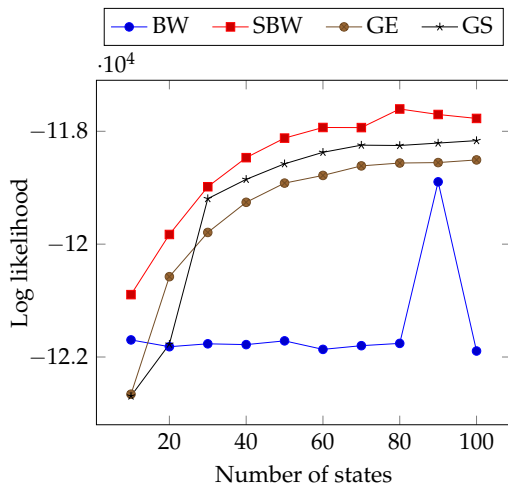**Data set: 23, States: 33**

STATE SPACE
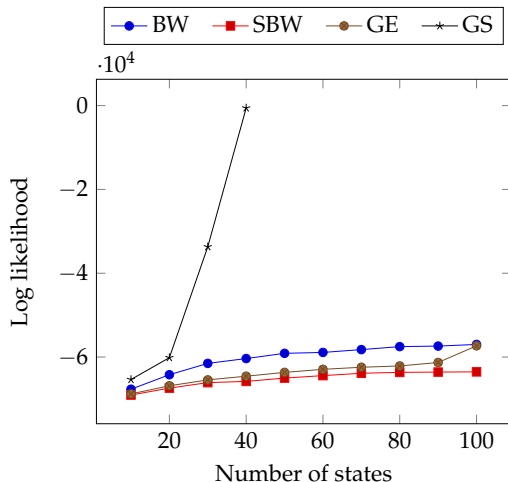

Data set: 41, States: 54

STATE SPACE

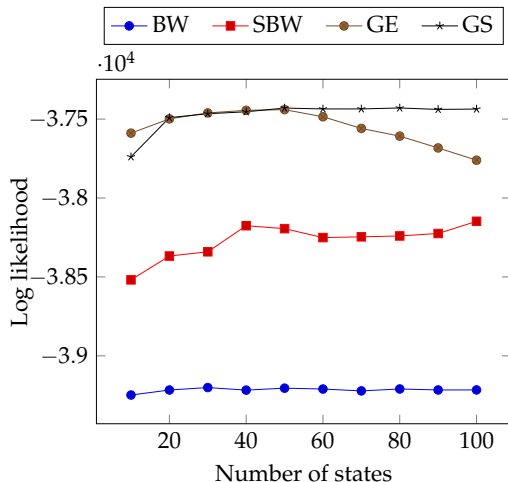**Data set: 1, States: 64**

TRANSITION SPARSITY
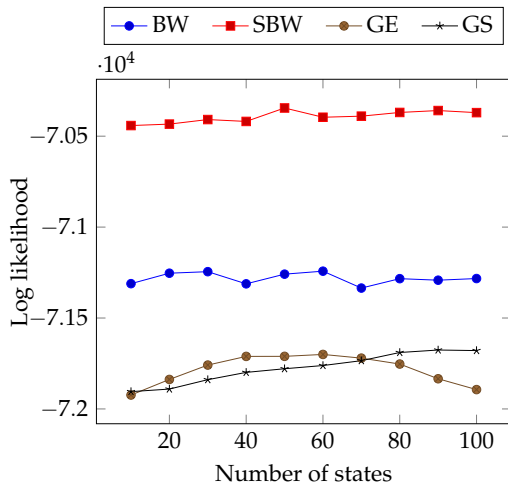

Dataset: 36, Sparsity: 7.4%

TRANSITION SPARSITY
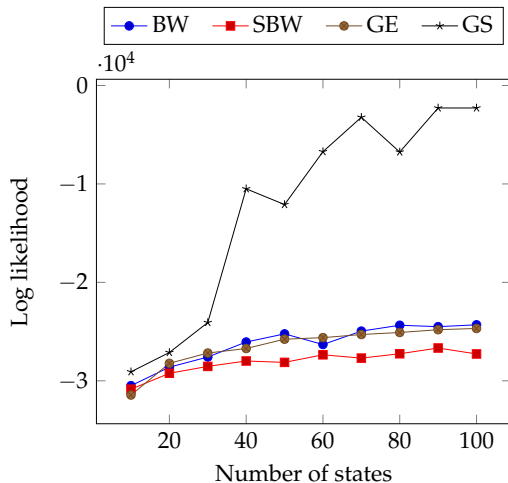
Dataset: 8, Sparsity: 16.8%

TRANSITION SPARSITY
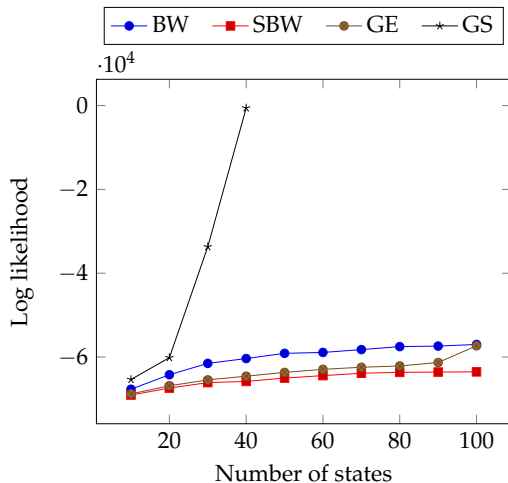
Dataset: 43, Sparsity: 40.2%

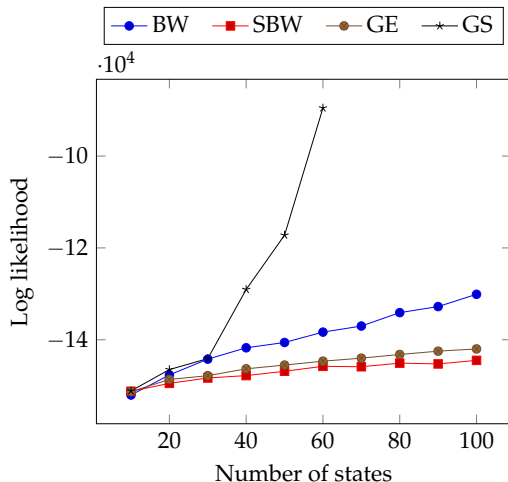# TRANSITION SPARSITY

Dataset: 37, Sparsity: 50%
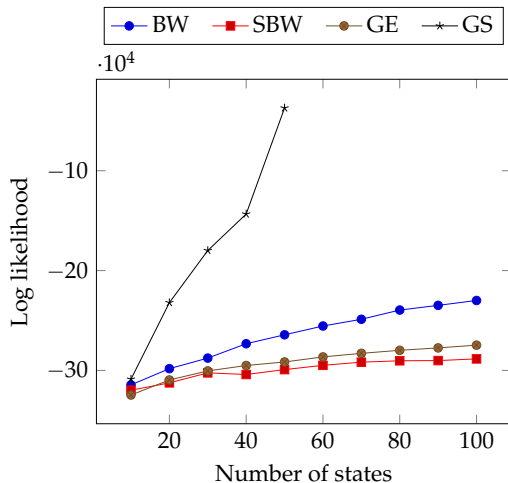
ALPHABET SIZE

Dataset: 32, Symbols: 4

ALPHABET SIZE

Dataset: 8, Symbols: 8

ALPHABET SIZE

Dataset: 10, Symbols: 11

ALPHABET SIZE

Dataset: 35, Symbols: 20
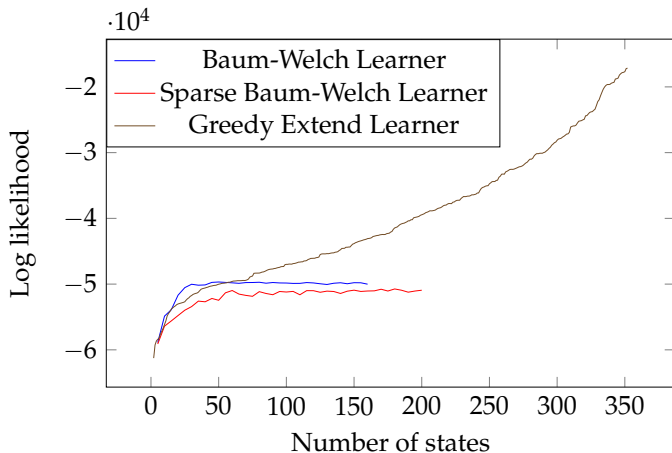
SPEED COMPARISON

Figure: Results achieved in a time scope of eight hours.
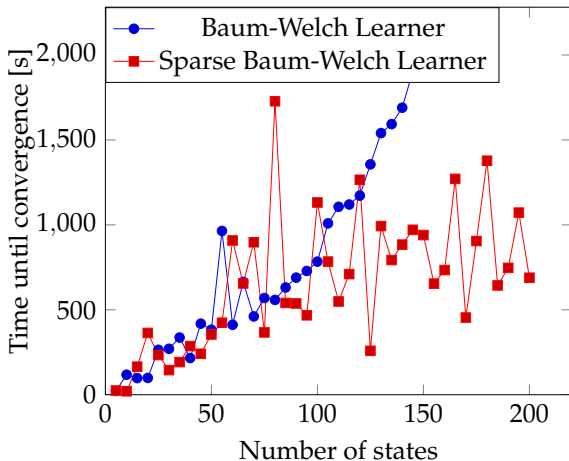
SPEED COMPARISON

Figure: Running time comparison between Baum-Welch and Sparse Baum-Welch Learners