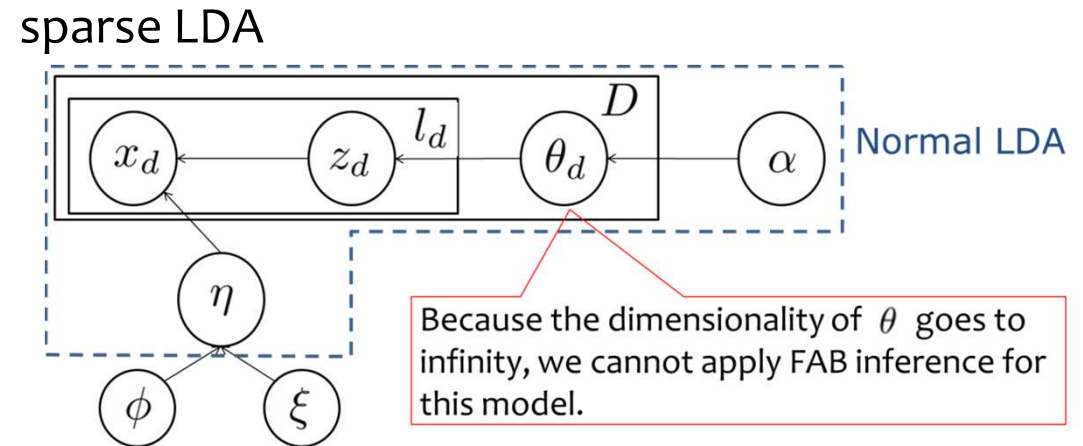


Sparse Latent Dirichlet Allocation with Collapsed Factorized Asymptotic Bayesian Inference

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An efficient model selection algorithm for sparse topic modeling.

“Collapsed” Factorized Asymptotic
Bayesian(FAB) Inference



Automatically select the number of topics of sparse LDA.

- ✓ Equivalent predictive performance(perplexity)
- ✓ Higher computational efficiency

compared with the state-of-the-art BNP methods for artificial data.