ERGM Specification
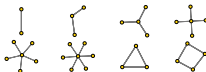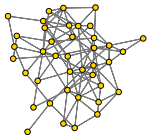
$$f(y|\theta, m) \propto \exp\{\theta^t s(y)\}$$

Network Data

Bayesian Analysis

$$p(\theta, m|y) \propto f(y|\theta, m) \; p(\theta|m) \; p(m)$$

Parameter Estimation: $p(\theta|y, m)$

Model Selection: $p(m|y)$

Goodness of Fit