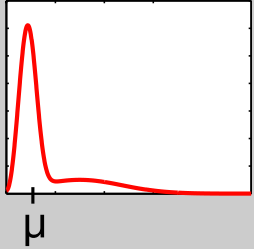
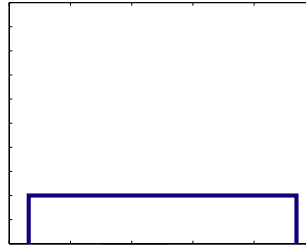


Observational data

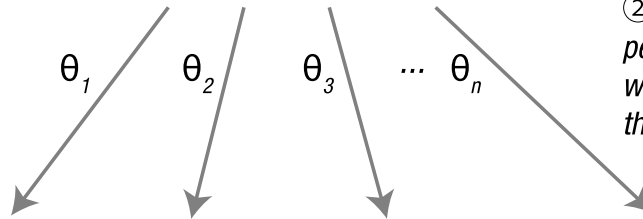


Prior distribution of model parameter θ

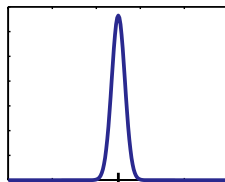


① Compute summary statistic μ from observational data

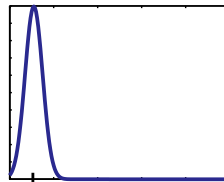
② Given a certain model, perform n simulations, each with a parameter drawn from the prior distribution



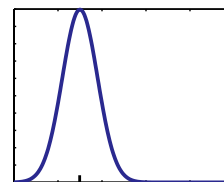
Simulation 1



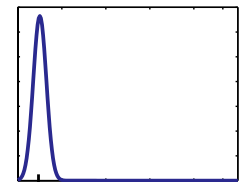
Simulation 2



Simulation 3



Simulation n



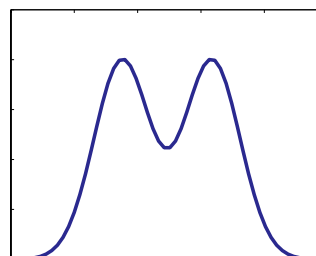
③ Compute summary statistic μ_i for each simulation

$$\rho(\mu_i, \mu) \stackrel{?}{\leq} \varepsilon$$



④ Based on a distance $\rho(\cdot, \cdot)$ and a tolerance ε , decide for each simulation whether its summary statistic is sufficiently close to that of the observed data.

Posterior distribution of model parameter θ



⑤ Approximate the posterior distribution of θ from the distribution of parameter values θ_i associated with accepted simulations.