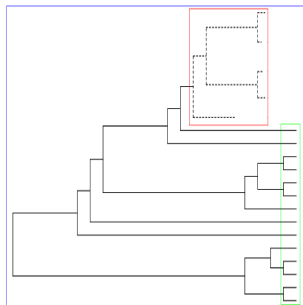


Q: Do species interactions determine diversification?

Phylogenetic tree



Problem 1

Model Uncertainty, speciation model.

Problem 2

Information on extinct species (fossil record) is absent or, at best, incomplete.

Problem 3

Models considering local species interaction are computationally unfeasible with current methods.

Approach

- Inference through data augmentation (solving a hard optimization problem)
- Performing model selection simultaneously.