

$$\mathbf{m} \sim \text{RSM}(\mathbf{d})$$

Random Stub Matching
given observed degree sequence \mathbf{d}

$$\mathbf{m} \sim \text{IEAS}(\mathbf{Q}(\mathbf{d}))$$

Independent Edge Assignments of Stubs
edge assignment probabilities $\mathbf{Q}(\mathbf{d})$
where \mathbf{d} is observed degree sequence

$$\mathbf{m} \sim \text{ISA}(\mathbf{Q}(\mathbf{p}))$$

Independent Stub Assignments
degree sequence $\sim \text{multinomial}(2m, \mathbf{p})$
where \mathbf{p} are stub assignment probabilities

$$\mathbf{m} \sim \text{IEA}(\mathbf{Q})$$

Independent Edge Assignments
edge sequence $\sim \text{multinomial}(2m, \mathbf{Q})$
where \mathbf{Q} are edge assignment probabilities





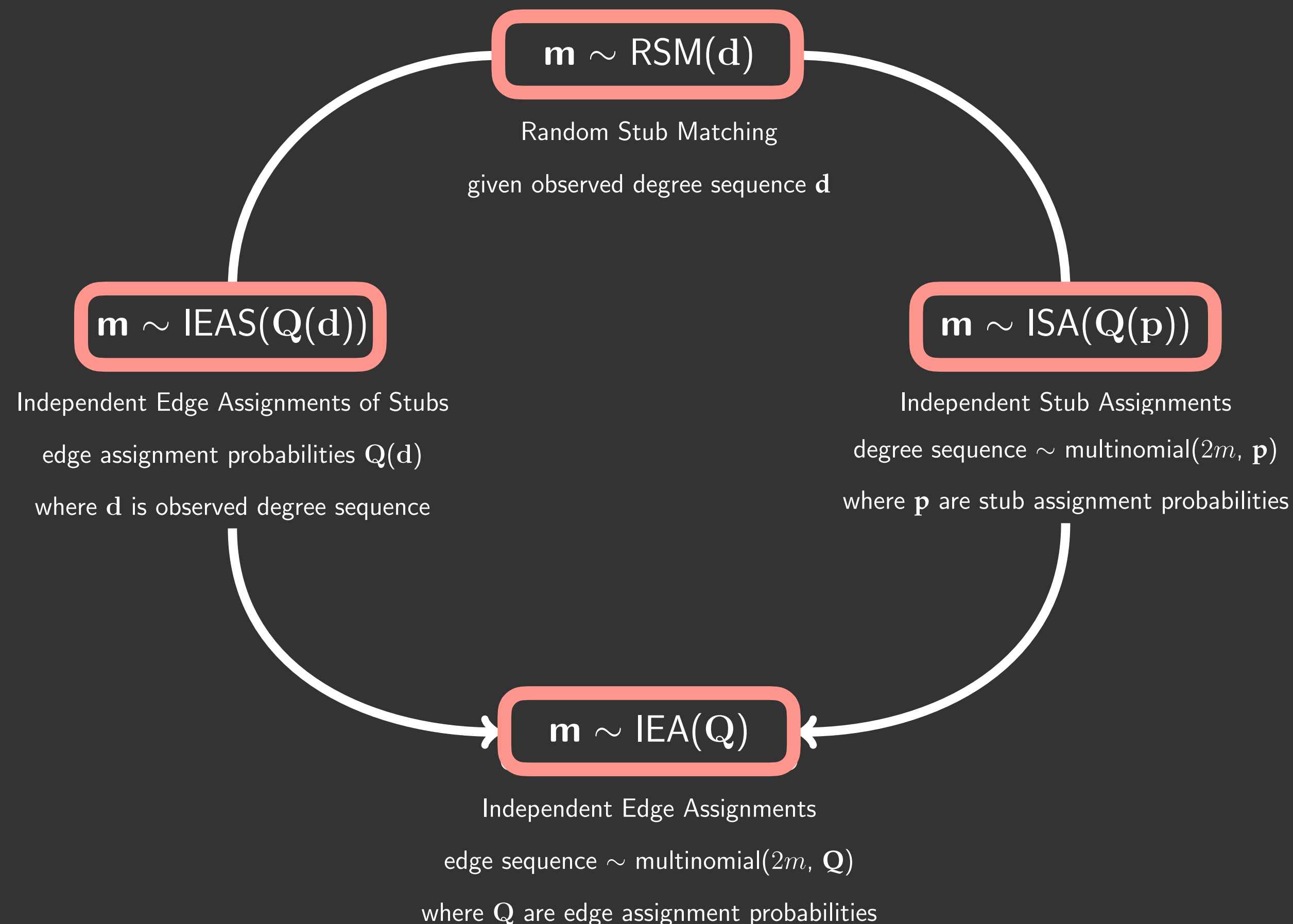




- probability models

multigraph representation of network data

- probability models
- statistics to analyze structural features under these models
- closed expressions for moments of many such statistics
- formal goodness of fit tests



multigraph representation of network data