

# 1. Model Form

$$f_i(\beta, x) = \sum_k \beta_k s_{ki}(x) + \varepsilon(x, z, t, j)$$

Network  
evolution

Behavioural  
evolution

Timing of decisions

Decision rules

Network rate function

Network objective function

Behavioral rate function

Behavioral objective function

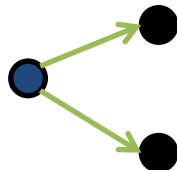
- Like ergms, the  $f_i(\beta, x)$  is a (typically linear) combination of network endogenous effects, with parameters as effect weights



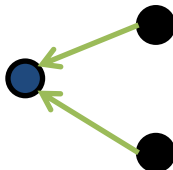
arcs



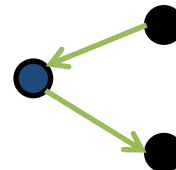
reciprocated  
arcs



2-out star

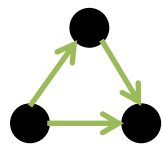


2-in star

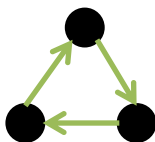


2-mixed star

...& higher



transitive  
triad



cyclic triad

...more