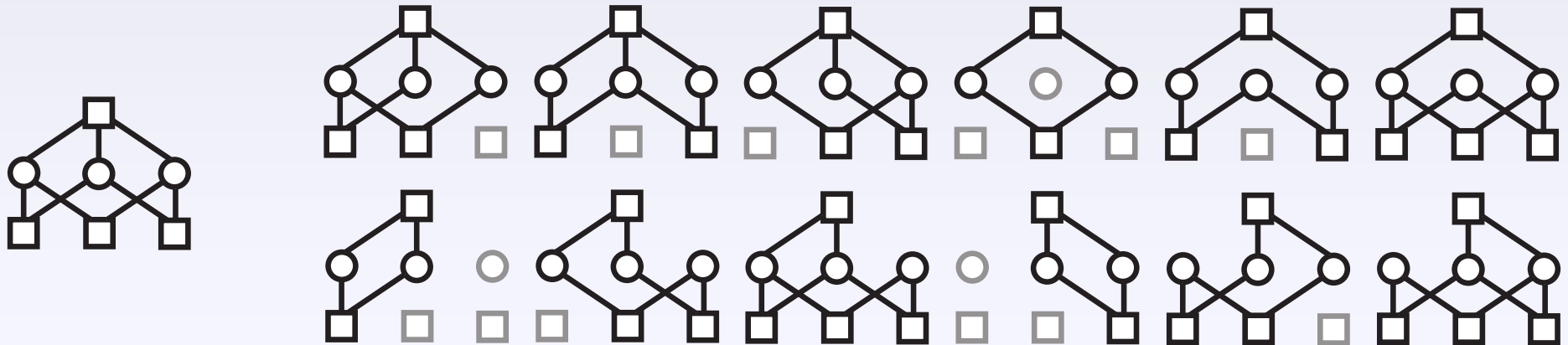


# Generalization: Factor Graphs



- Generalized loops: all connected *variable nodes* and *factor nodes* must have degree at least two
- *Probabilistic derivation* via reparameterization generalizes
- *Bethe lower bound* continues to hold for a higher-order family of attractive binary compatibilities