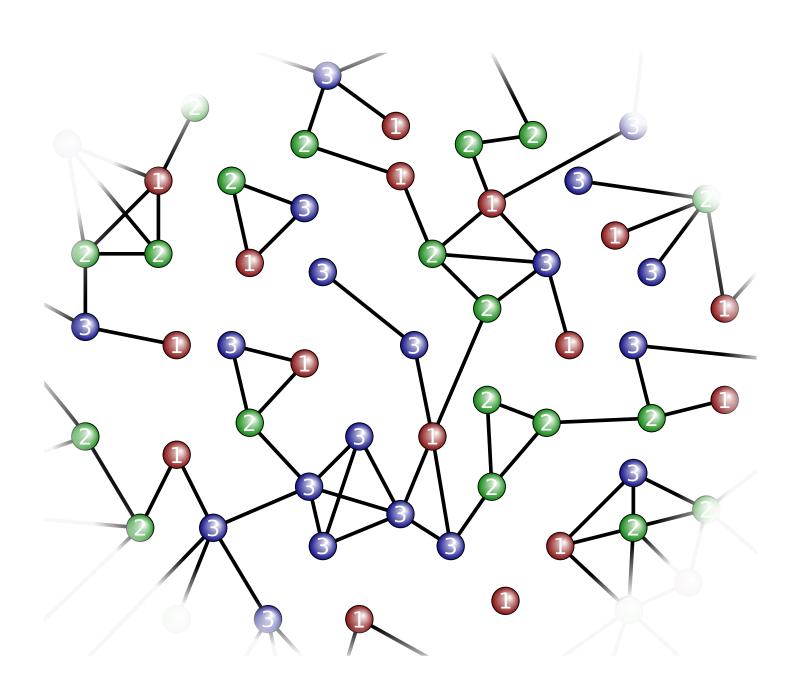
Outline

- 1. Are simple models enough to study complex systems/networks?
- 2. "Simple" ways to encode structural complexity
 - (a) latent metric space
 - (b) stub types



General stub matching scheme

Many network models can be seen as a *stub matching* scheme with

- > node types
- > stub types
- > rules governing how stubs are matched

This perspective facilitates the mathematical description of the dynamical processes on networks

- probability generating functions (ex.: percolation, robustness)
- > ordinary differential equations (ex.: epidemic spreading, opinion dynamics)

