

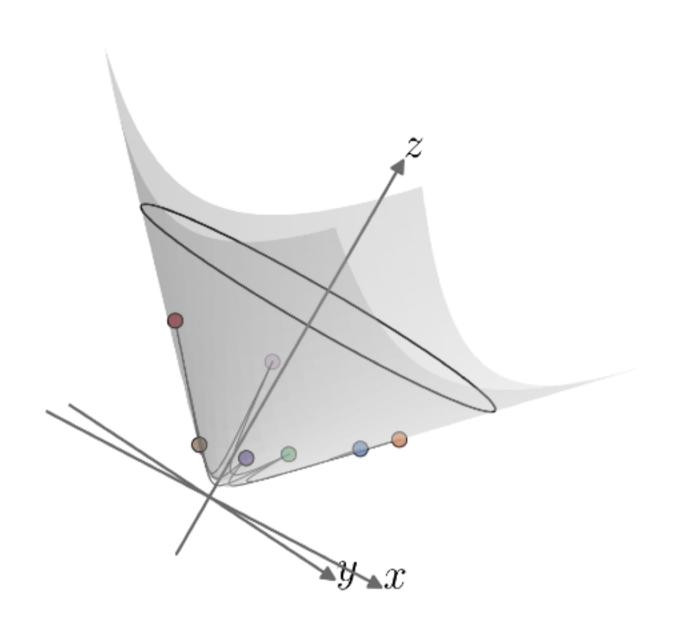
## Outline

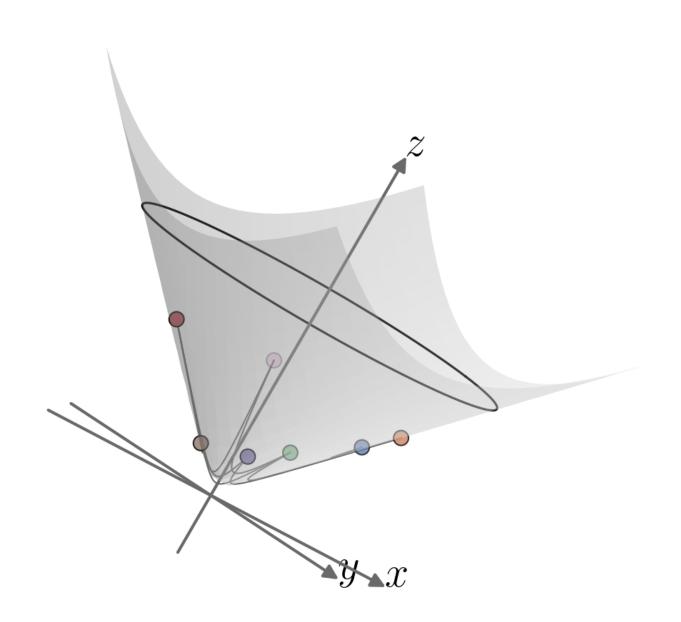
1. Are simple models enough to study complex systems/networks?

2. "Simple" ways to encode structural complexity

(a) latent metric space

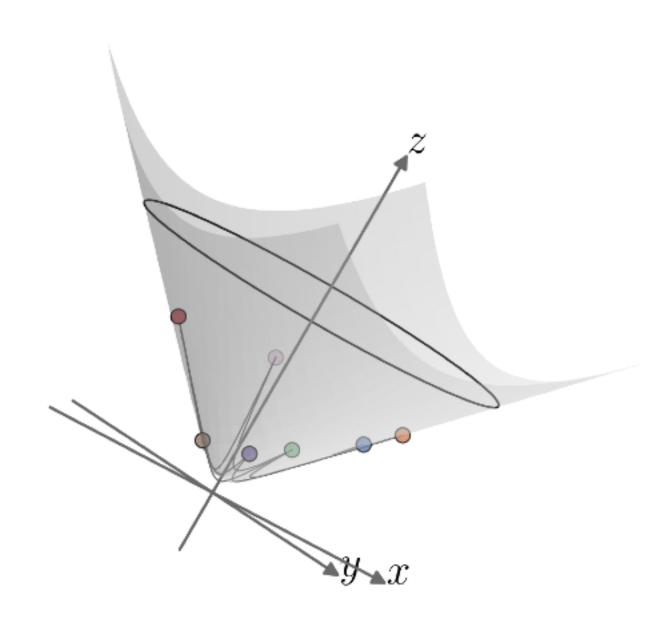
(b) stub types





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

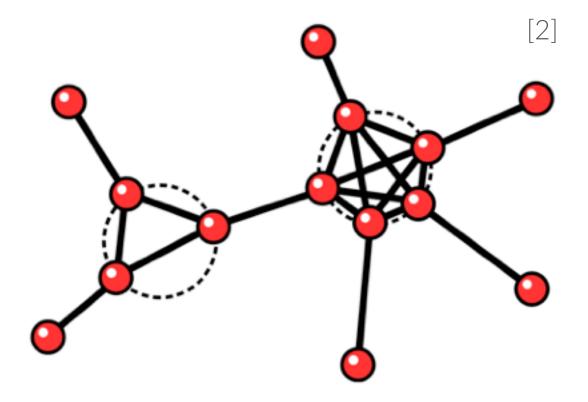


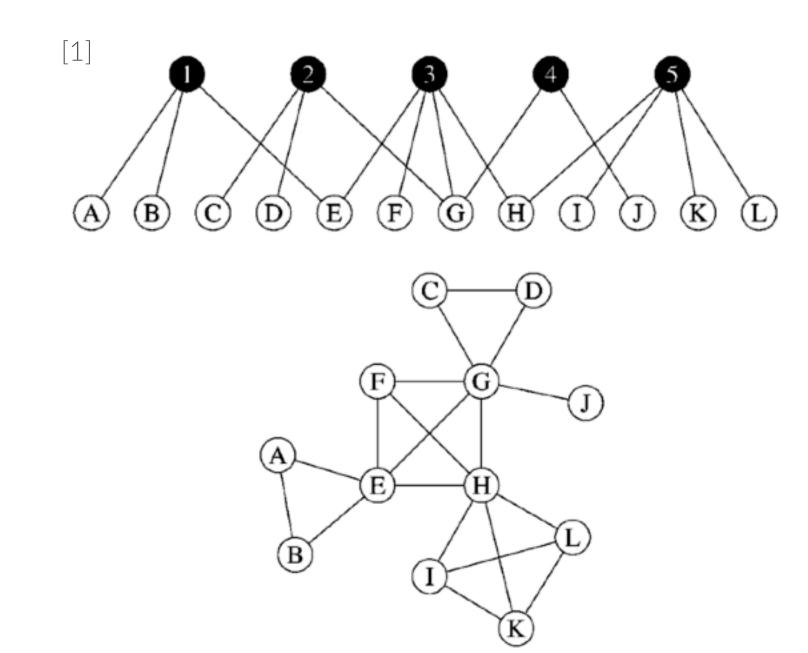
## Modeling clustering

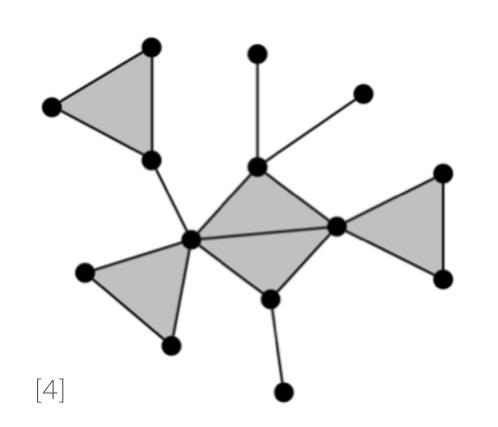
Tricky because clustering consists in three-node interactions while our mathematical tools rely on pairwise interactions either explicitly or implicitly.

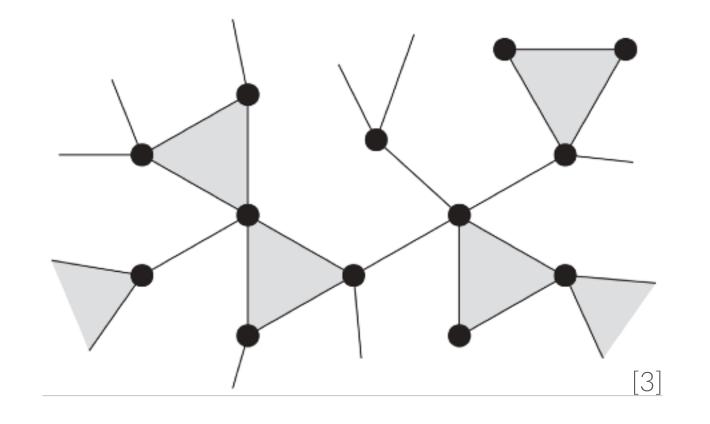
Most models therefore assume

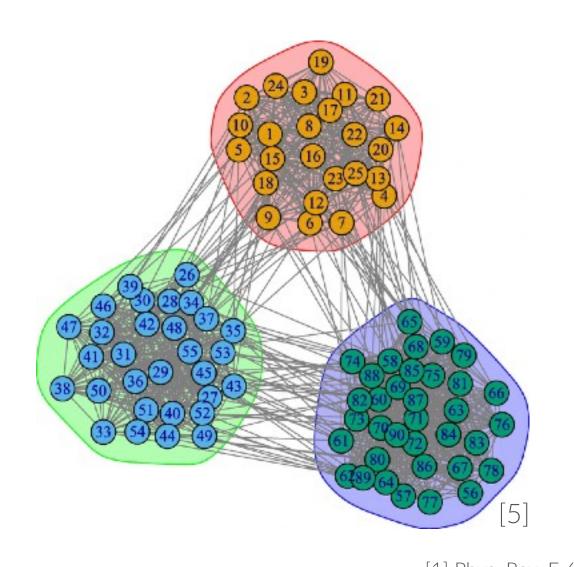
- > an underlying tree-like structure
- > that the networks are dense











- [1] Phys. Rev. E 68, 026121 (2003)
- [2] Phys. Rev. E 80, 036107 (2009)
- [3] Phys. Rev. Lett. 103, 058701 (2009)
- [4] Phys. Rev. E 82, 066118 (2010)
- [5] Appl. Netw. Sci. 4, 122 (2019)