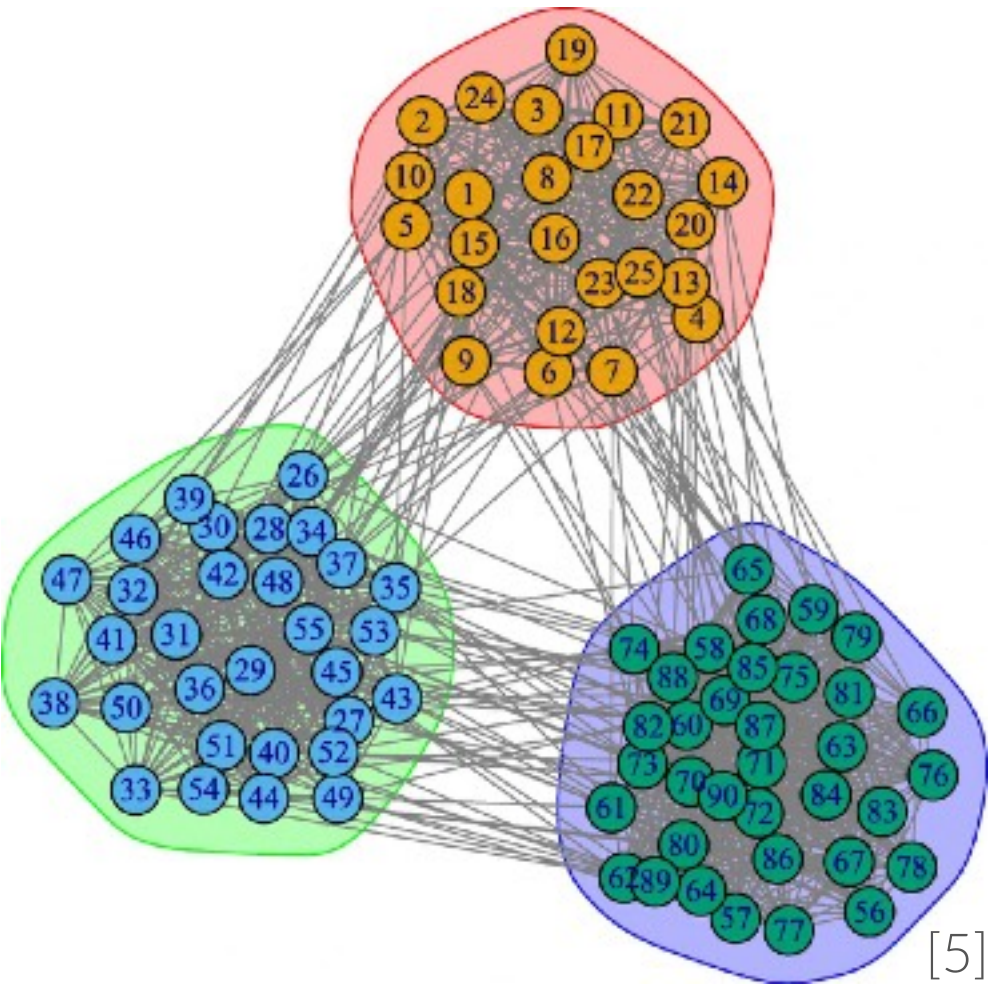
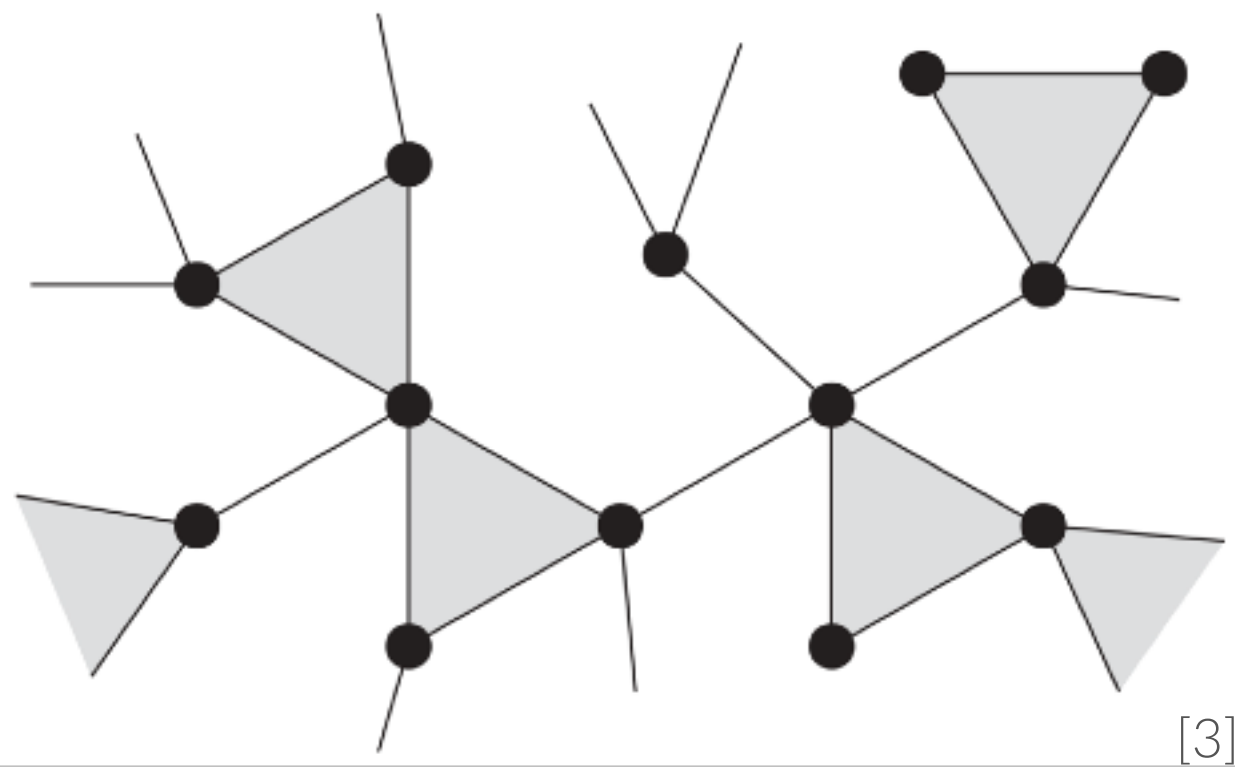
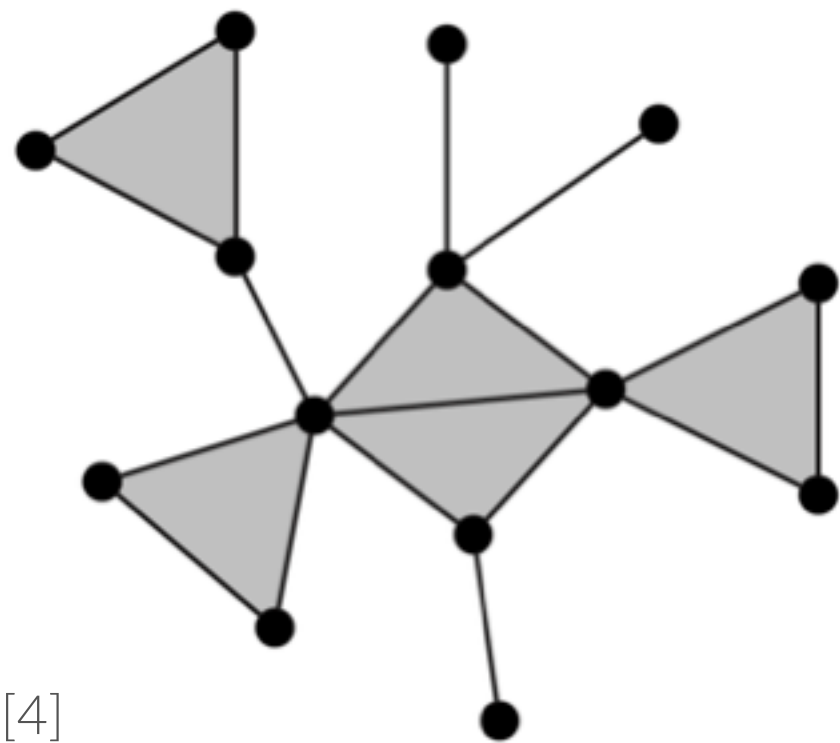
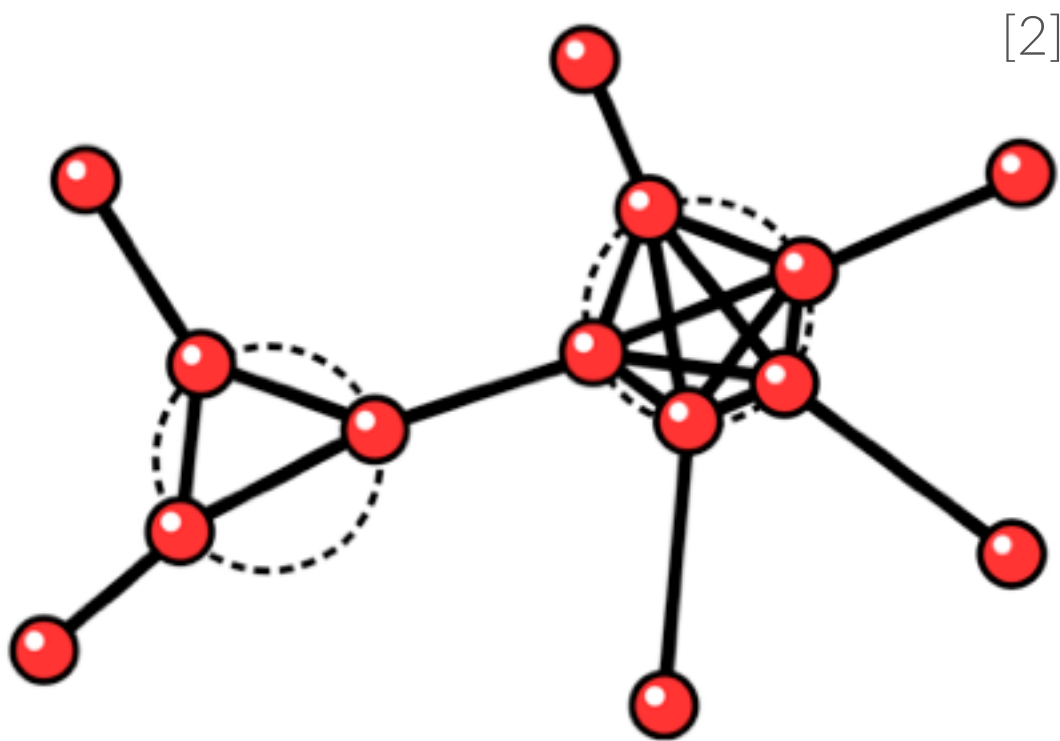
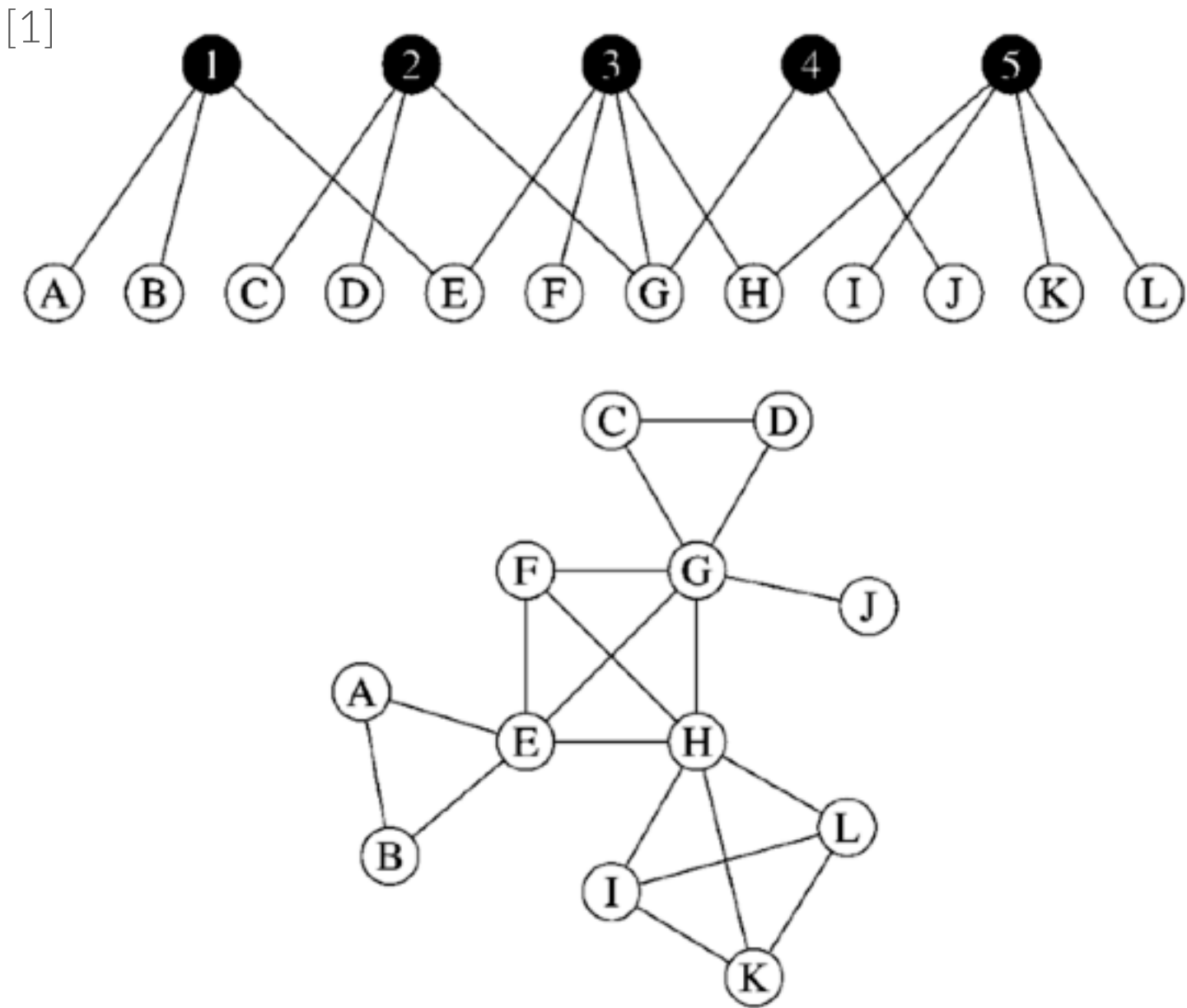


Modeling clustering

Trickier 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)

The importance of modular architecture

The modular architecture has a major influence of several dynamical processes.

- ▷ information diffusion [1]
- ▷ neural dynamics and memory performance [2]
- ▷ ...