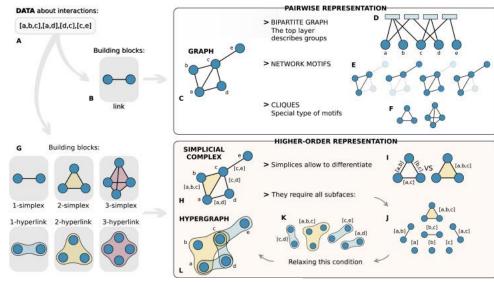
When networks must describe multivariate behavior, a pairwise representation is not enough, fundamentally and statistically

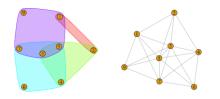
Higher order: big in network science



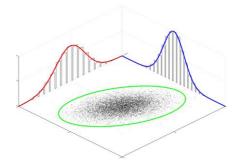
Networks beyond pairwise interactions: Structure and dynamics

Federica Ratticton 3 2 M Giulia Cencetti b Jacono Jaconini 5 d Vito Latora 5 6 f. R





- Inferring motifs/cliques from "networks" of pairwise statistical dependencies is problematic
- Same issue for detecting and interpreting higher order complexes
- Infer these quantities from the data
- This way we focus on the behavior and not only on the underlying structure



https://github.com/danielemarinazzo/HOI

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Main goal: translate some matlab stuff to python