

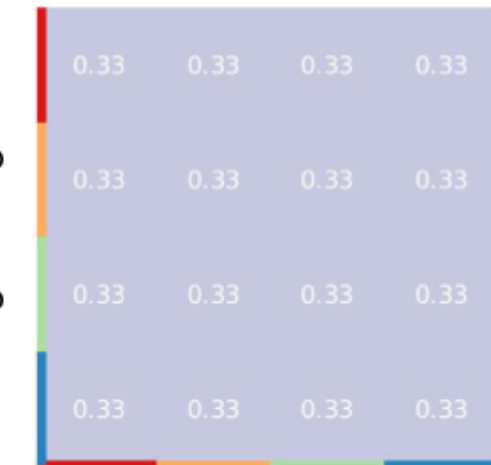
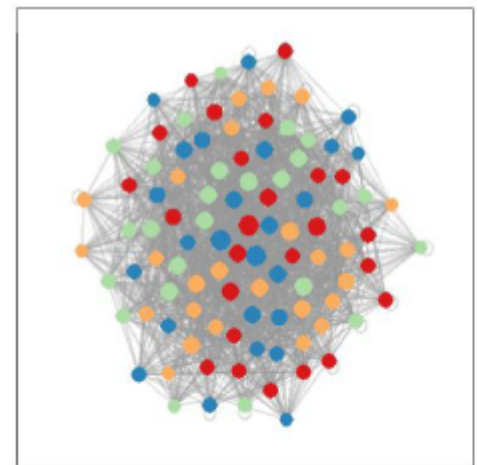
a.

Graph

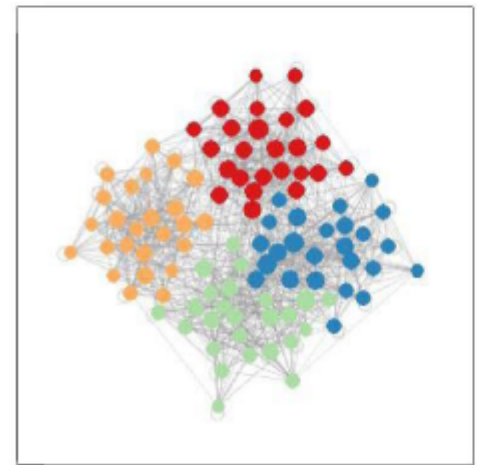
Adjacency matrix

signal matrix

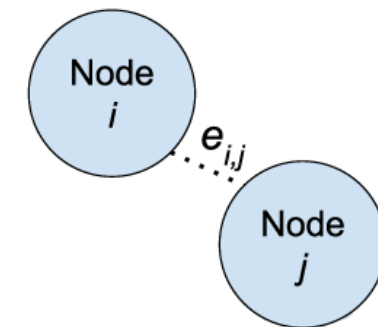
Erdos-Renyi Random



Stochastic block



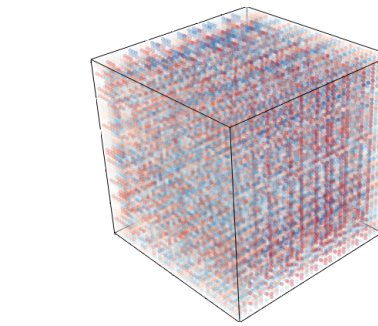
b.



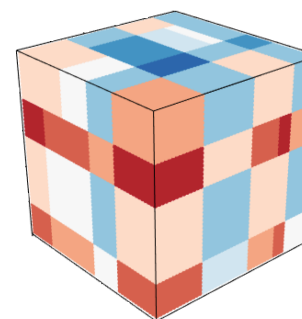
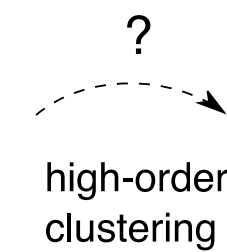
$$e_{ij} = \begin{cases} 1 & \text{iff } e_{ij} \text{ exists} \\ 0 & \text{otherwise} \end{cases} \quad \mathbb{P}(e_{ij} = 1) = s_{z_i, z_j}$$

where z_i, z_j are the community assignment of i and j respectively.

c.



Adjacency tensor



signal tensor

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