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Joe Neeman* (jneeman@math.utexas.edu), **Charles Radin** and **Lorenzo Sadun**. *Emergence of communities in triangle-deficient graphs*.

The stochastic block model is a well-studied model of random graphs exhibiting a community structure: the nodes are partitioned into “communities”, and edges are randomly added to the graph in a way that respects the community structure. This model is widely used for studying networks with community structure, but this talk will deal with a different – and surprising – way in which these random graphs arise: if you sample a dense random graph and condition it on having fewer triangles than expected, this sometimes forces it to have the structure of a stochastic block model. (Received January 13, 2021)