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On random graph models with properties of real networks

Abstract

Understand mechanisms for generating random graph models with properties of real networks is an important topic in complex networks. Although there is a large literature on random graph models with a power-law degree distribution, a positive clustering coefficient or with a giant component, much work remains to be done to generate random graph models with several of these properties. In this talk we will discuss some results about random graph models with power-law degree distribution and giant component. At the end, we will present some work in progress about random graph models with power-law degree distribution and positive clustering coefficient.