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Connectivity and the largest component in a hyperbolic model for complex networks

In this talk, I will discuss some recent and ongoing work on a model for complex networks that was introduced recently by Krioukov et al. In this model, N points are chosen randomly on the hyperbolic plane and any two of them are joined by an edge if they are within a certain hyperbolic distance. The model exhibits a power-law degree sequence, small distances and clustering. I will present some results on the component structure of the graph model, and on the probability that it is connected.

(based on joint work with Michel Bode and Nikolaos Fountoulakis)