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Independence of random sets in hypergraphs.

The independence density of a countable graph, introduced by Bonato, Brown, Kemkes, and Prałat, is the probability that a subset of vertices is independent when each vertex is included independently with probability $1/2$. The independence density of a countable hypergraph is defined similarly. In this talk, I will present new results on some generalizations and on the sets of real numbers that are independence densities of some countably infinite hypergraph. Joint work with P. Balister and B. Bollobás. (Received February 20, 2016)