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Hamilton Cycles in Random Hypergraphs

In the random k-uniform hypergraph $H_{n,p;k}$ of order n each possible k-tuple appears independently with probability p. A loose Hamilton cycle is a cycle of order n in which every pair of adjacent edges intersects in a single vertex. In this talk we show that $(\log n)/n^{k-1}$ is the asymptotic threshold for the existence of loose Hamilton cycles in $H_{n,p;k}$.

This is joint work with Alan Frieze.