# Loose paths in random ordered hypergraphs

Andrzej Dudek[(1)]

[(1)] Western Michigan University

Consider the random $r$-uniform hypergraph $H = H^{(r)}(n,p)$. An *ordered loose path* is a sequence of edges $E_1, E_2, \ldots, E_\ell$ of $H$ such that $\max\{j \in E_i\} = \min\{j \in E_{i+1}\}$ for $1 \leq i < \ell$. In this talk we establish fairly tight bounds on the length of the longest ordered loose path in $H$ that hold with high probability.

This is a joint work with Alan Frieze and Wesley Pegden.