

Combinatorics Seminar

Friday May 24, 2013 at 2PM

Room MS.04

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The topology of random uniform hypergraphs

In this talk I will describe some models for random simplicial complexes introduced in recent literature. These can be viewed as random k -uniform hypergraphs.

Although these models generalize the celebrated Erdős-Rényi model for random graphs, their higher dimension motivates the study of probabilistic topology, i.e. estimating topological invariants of random spaces. I will survey some of the known topological phase transitions, connections to Gromov's theory of random groups and some challenges that lay ahead.

**There will be refreshments for the attendees.
Please bring your own mugs (for coffee/tea) if possible.
Everyone is welcome.**



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