

Random Clique Complexes

Christopher Hoffman, University of Washington

The clique complex of a graph G is the largest simplicial complex with G as its 1-skeleton. In this talk we will study the clique complex of an Erdos-Renyi random graph. We prove that for a typical graph the clique complex is homotopy equivalent to a bouquet of spheres.

This is joint work with Chris Fowler, Matt Kahle and Greg Malen.