
TOM BOHMAN, Carnegie Mellon

Self-correcting estimates for the triangle free process

The triangle-free process begins with an empty graph on n vertices and iteratively adds edges chosen uniformly at random subject to the constraint that no triangle is formed. In this talk we discuss how the graph produced by i steps of the triangle-free process resembles a graph chosen uniformly at random from the collection of all graphs on n vertices with i edges. As a Corollary we get an improved lower bound on the Ramsey number $R(3, t)$.

Joint work with Peter Keevash. Similar results were obtained simultaneously and independently by Fiz Pontiveros, Griffiths and Morris.