

SCMS Seminar



CODEGREE TURAN DENSITY AND INDEPENDENCE NUMBER OF HYPERGRAPHS

Yi Zhao

Georgia State University

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Venue: Room 106, Shanghai Center for Mathematical Sciences

Abstract: Turan number and independence number are two fundamental parameters of graphs. We only have limited knowledge of them in hypergraphs. In a joint work with Allan Lo (University of Birmingham, UK), we gave the best bounds for the codegree Turan density of complete r -uniform hypergraphs. In a recent joint work with Marcelo Sales and Vojtech Rodl (Emory University, USA), we obtain a new bound for independence number of 4-uniform hypergraphs under maximum degree conditions. I will discuss the connection and proofs of these and other related results.