

Combinatorics and Probability Seminar

Ramsey graphs and additive combinatorics without addition

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Abstract: A graph is Ramsey if its largest clique or independent set is of size logarithmic in the number of vertices. While almost all graphs are Ramsey, there is still no known explicit construction of Ramsey graphs. We discuss recent work on some questions in this area. Along the way, we study some fundamental problems in additive combinatorics, and discover that group structure is superfluous for these problems. Joint work with David Conlon, Jacob Fox and Huy Tuan Pham.

Friday, October 6 at 2:00 PM in 636 SEO