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Title: Phase transitions in Ramsey-Turán Theory.

Abstract:

Let $f(n)$ be a function and L be a graph. Denote by $RT(n, L, f(n))$ the maximum number of the edges of an L-free graph on n vertices with indepen- dence number less than $f(n)$. This was introduced by by Erdand Sós in 1970. In this talk I will survey some of the recent progress of the area. The newer results are partially joint with P. Hu, J. Lenz and M. Simonovits.