Institut für Diskrete Mathematik

Vortrag im Seminar für Kombinatorik und Optimierung

Dienstag 27.6.2017, 14:15

Seminarraum AE06, Steyrergasse 30, Erdgeschoss

Supersaturation Problem for the Bowtie

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The Turán function $ex(n, F)$ denotes the maximal number of edges in an F-free graph on n vertices. However once the number of edges in a graph on n vertices exceeds $ex(n, F)$, many copies of F appear. We study the function $h_F(n, q)$, the minimal number of copies of F in a graph on n vertices with $ex(n, F) + q$ edges. The value of $h_F(n, q)$ has been extensively studied when F is colour critical. In this paper we consider a simple non-colour-critical graph, namely the bowtie and establish bounds on $h_F(n, q)$ when $q = o(n^2)$.

This is joint work with Mihyun Kang and Oleg Pikhurko.

Mihyun Kang