

Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 17th March 12:30

Online meeting (Webex)

Ramsey numbers upon vertex deletion

YUVAL WIGDERSON

(Tel Aviv University)

The Ramsey number $r(G)$ of a graph G is the minimum N so that every red/blue edge-coloring of K_N contains a monochromatic copy of G . Conlon, Fox, and Sudakov conjectured that if we delete a single vertex from G , then the Ramsey number can decrease by at most a constant factor. Though very natural (and true in a variety of special cases), this conjecture turns out to be false in general. In this talk, I'll explain how one disproves this conjecture, as well as the connections this problem has to a number of other questions in Ramsey theory.

Meeting link:

<https://tugraz.webex.com/tugraz/j.php?MTID=m3162bb7e6bef850e659f657a18095a1c>

Meeting number: 2733 453 3442

Password: bSDVGJDp976

Joshua Erde, Mihyun Kang