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Seminario de Grafos

Speaker: Marcelo Lage (Universidade de São Paulo)

Title: The Ramsey Number of Multiple Copies of a Graph

Abstract: Let H be a graph without isolated vertices. The Ramsey Number r(nH) is the minimum N such that every coloring of the edges of the complete graph on N vertices with red and blue contains n pairwise vertex-disjoint monochromatic copies of H of the same color.

In 1975, Burr, Erdős and Spencer established that r(nH) is a linear function of n for large enough n. In 1987, Burr proved a superexponential upper bound for when the long-term linear behavior starts.

In 2023, Bucic and Sudakov showed that the long-term linear behavior starts already when n is an exponential function of |H| using some of Burr's techniques along with the absorption method.

In this seminar, we will discuss the proof of Bucic and Sudakov.

04/11, Sala John von Neumann, 7mo piso, 12.00 hrs.

