

Ramsey numbers concerning quadrilaterals

Yaojun Chen
Nanjing University

Time: Dec 30th, 14:00–15:00

Zoom meeting ID: 86843433725 Password: 121323

Link: <https://zoom.us/j/86843433725>

Abstract:

Let G_1, G_2, \dots, G_k be k given graphs. The Ramsey number $R(G_1, G_2, \dots, G_k)$ is the smallest integer N such that for any k -edge colorings of a complete graph K_N , K_N contains a subgraph in color i which is isomorphic to G_i for some $1 \leq i \leq k$. In this talk, we will introduce some results and problems on the Ramsey numbers concerning quadrilaterals, that is, a cycle of length four. We will also talk about the main methods used to investigate these problems.

Based on joint works with Noga Alon, Gabriela Bourla, Ben Graham, Venkatesan Guruswami, Noah Kravitz, and Ray Li.