

Combinatorics Seminar

Wednesday, September 11th, 2024

4:00-5:00 pm in Hume 321

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The Strong Edge-Coloring of Graphs

Abstract

A proper edge-coloring of a graph G is called a strong edge-coloring if any two edges joined by another edge receive distinct colors. It is clear that in a strong edge-coloring, every color class forms an induced matching. In this talk, we will give a survey on the strong edge-colorings of several classes of sparse graphs, including graphs with small maximum degree, bipartite graphs, and planar graphs.