

國立陽明交通大學應用數學系

演講公告

主講人：Prof. Farbod Shokrieh (University of Washington)

講題：Graphs in algebraic and arithmetic geometry

時間：115 年 9 月 29 日(星期二) 下午 13:20 –14:10

Abstract

Graphs can be viewed as (non-archimedean) analogs of Riemann surfaces. For example, there is a notion of Jacobians for graphs. More classically, graphs can be viewed as electrical networks. I will explain the interplay between these points of view and some recent applications in algebraic and arithmetic geometry.

主講人：Prof. Jing Huang (University of Victoria)

講題：On graphs which are locally complete 2-edge-colourable

時間：115 年 9 月 29 日(星期二) 下午 14:20 –15:10

Abstract

A 2-edge-colouring of a graph G is called *locally complete* if for each vertex v , the vertices adjacent to v through edges of the same colour induce a complete subgraph in G . Contreras-Balbuena et al characterized locally complete 2-edge-coloured graphs which have alternating Hamiltonian cycles. Chvátal and Sbihi proved that graphs which are locally complete 2-edge-colourable are one of two types of claw-free perfect graphs indecomposable via clique-cutsets. Maffray and Reed gave a forbidden subgraph characterization of these graphs.

We compare locally complete 2-edge-colourable graphs with proper interval graphs and proper circular-arc graphs. We characterize proper interval graphs and proper circular-arc graphs which are locally complete 2-edge-colourable by forbidden subgraphs.

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