

MATHEMATICS DEPARTMENT SEMINAR

A Bit of Graph Theory and a Party Problem



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2:00 PM TO 3:00 PM



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Science III, Room 123

Abstract

Graph theory is an area of mathematics that studies networks of objects and the connections between them, and it appears in problems ranging from social networks to scheduling and optimization. In this talk, I will introduce some of the basic ideas of graph theory through simple and accessible examples. We will explore graph colorings and a classic “party problem” that leads naturally to Ramsey theory—the study of when order is guaranteed to appear in sufficiently large systems. Along the way, I will discuss some famous results in graph theory and give a glimpse of the kinds of questions that arise in current research.



STUDENTS ARE WELCOME!