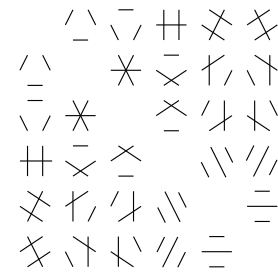# Mathematics Seminar

Rocky Mountain Algebraic Combinatorics Seminar

Graph homomorphisms, partition functions, and extremal problems, Part 1

Ewan Davies
Colorado State University

We survey an area of graph theory motivated by applications to number theory, physics, geometry, and algorithms. The study of graph homomorphisms, independent sets, and colorings has resulted in the development of some of the most influential techniques in probabilistic combinatorics. We focus on one example known as "local occupancy" that has yielded breakthroughs in several areas.

Part deux

Ewan Davies
Colorado State University

Weber 223
4–6 pm, Friday, February 23, 2024
(Refreshments 3:30–4 pm)
Colorado State University
4 pm, Friday, February 23, 2024

This is a joint Denver U / UC Boulder / U of Wyoming / CSU seminar that meets biweekly.
Anyone interested is welcome to join us at a local restaurant for dinner after the talks.

Colorado State University

Department of Mathematics
Fort Collins, Colorado 80523