Department of Mathematics
University of Notre Dame

David Galvin - University of Notre Dame

GRADUATE STUDENT SEMINAR

Guest Speaker: David Galvin

University of Notre Dame

Date: Monday, October 14, 2019

Time: 4:00 PM

Location: 117 Hayes-Healy Hall

Lecture Title:
Matching in Graphs

Abstract

A *matching* in a graph is a set of edges sharing no vertices. I'll give some motivation for studying matchings, and then sketch a proof of one of my favorite theorems about matchings: Heilman & Lieb's result that the generating polynomial of the matching sequence of a graph has all real roots. To the degree that time permits, I'll also discuss recent work with Taylor Ball, Katie Hyry and Kyle Weingartner (all at ND) that puts new restrictions on the matching sequence of a graph, beyond those imposed by Heilman & Lieb.