



Colloquium

September 20, 4:05 p.m. (9th Period)
(in the Atrium)

Speaker: Adam Gregory

Title: Utility of combinatorial formulas for special polynomials

Abstract

By a “combinatorial formula” for the polynomial $F(x_1, x_2, \dots)$ we mean a set S of combinatorial objects where each s in S is assigned a monomial weight $wt(s)$ such that $F = \text{sum}\{wt(s) : s \in S\}$. When one has such a model it is natural to seek combinatorial explanations for the algebraic properties of F . In this talk we will see a few notable examples and discuss some (challenging!) open problems. This survey is aimed at a general audience.