

GRADUATE STUDENT SEMINAR

Guest Speaker: David Hansen

University of Notre Dame

Date: Monday, November 26, 2018

Time: 4:00 PM

Location: 231 Hayes-Healy Hall



Lecture Title:

Modular forms and patterns in arithmetic

Abstract

I'll discuss some mysterious connections between counting solutions of equations over finite fields, and holomorphic functions with an unreasonable number of symmetries ("modular forms"). Nowadays these connections are part of the "Langlands program", but their motivation goes back to works of Fermat, Euler, and Gauss, which I'll also try to explain.