



Speaker: Alexander Diaz Lopez
University of Notre Dame

Monday, October 7, 2013
10:00 AM
258 Hurley Hall

Title: Asymptotic Hecke Algebra

Abstract:

In the 1980's, David Kazhdan and George Lusztig were looking to decompose a complicated space of functions into irreducible representations of a group. In that quest, they found that this is equivalent to decomposing the regular representations of Hecke algebras. This is the first of two talks in which I will construct the Hecke Algebra, the Kazhdan-Lusztig polynomials and the left cells associated to a Coxeter system (W, S) . The ultimate goal is then to define the Asymptotic Hecke Algebra, which, in some sense, is a generalised version of the Hecke Algebra.