Department of Mathematics
University of Notre Dame

TOPOLOGY SEMINAR

Guest Speaker: Daniel Studenmund
University of Notre Dame

Date: Tuesday, October 15, 2019
Time: 2:30 PM
Location: 258 Hurley Hall

Lecture Title:
Hidden symmetries of groups

Abstract
Many infinite discrete groups fail to have nice properties only because of obstructions that disappear on passage to a finite-index subgroup. Examples of such properties include superrigidity of representations of linear groups and nilpotence of groups of polynomial growth. The collection of all finite-index subgroups of a fixed group Gamma has algebraic and geometric structures that can reflect properties of Gamma. We will discuss some of these structures, including the abstract commensurator of Gamma and commensurator growth of Gamma. (This talk will be in the style of a colloquium.)

Daniel Studenmund - University of Notre Dame