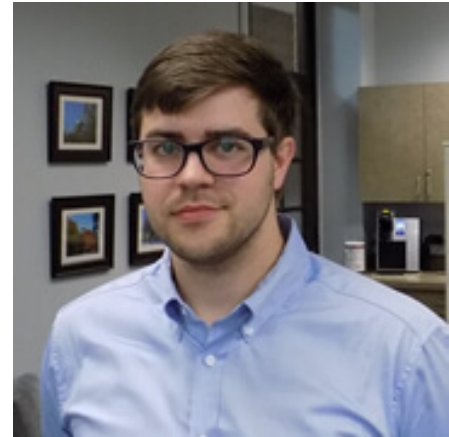


CLUSTER ALGEBRAS SEMINAR

Speaker: Trey Trampel
University of Notre Dame



Date: Tuesday, February 4, 2020

Time: 12:00 PM

Location: 125 Hayes-Healy Hall

Lecture Title:

Quantum algebras at roots of unity and discriminants

Abstract

We will review the tools and theory of representations of algebras that are finite modules over their centers. In this context of noncommutative algebras, we will introduce a generalization of discriminants from number theory and discuss their role in this representation theory. We will discuss the quantum Schubert cells at roots of unity of De Conini-Kac-Procesi. Results on discriminants of specializations of quantum algebras will be given, with quantum Schubert cells as a major example. We also will discuss discriminants of quantum cluster algebras.