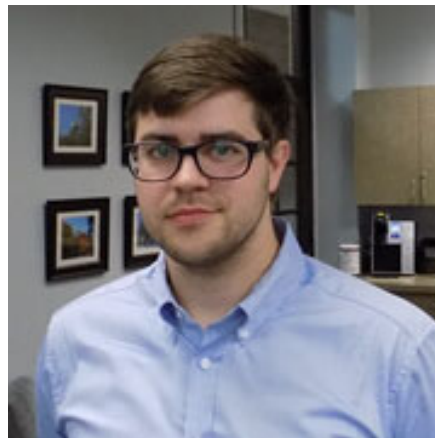


## ***CLUSTER ALGEBRAS SEMINAR***

**Speaker: Trey Trampel**  
**University of Notre Dame**



**Date:** Tuesday, February 11, 2020

**Time:** 12:00 PM

**Location:** 125 Hayes-Healy Hall

***Lecture Title:***

**Quantum cluster algebras and roots of unity, part II**

***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.