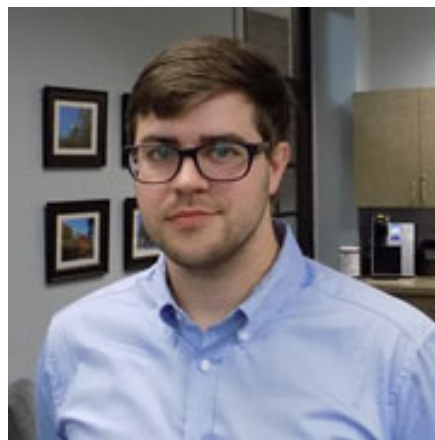


CLUSTER ALGEBRAS SEMINAR

Speaker: Trey Trampel
University of Notre Dame



Date: Tuesday, September 17, 2019

Time: 12:00 PM

Location: 125 Hayes-Healy Hall

Lecture Title:

Quantum cluster algebras and roots of unity

Abstract

The uniparameter Quantum cluster algebras of Berenstein-Zelevinsky will be introduced via comparison to traditional cluster algebras. The root of unity version of quantum cluster algebras will be defined similarly. Foundational results in this setting will be shown, such as the quantum Laurent phenomenon and the identification of a canonical, central cluster algebra. This canonical central subalgebra recaptures the canonical subalgebra of De Concini, Kac, and Procesi when in the context of quantum Schubert cells.