



UNIVERSITY OF
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Algebraic Geometry and Commutative Algebra Seminar

Department of Mathematics

**Guest Speaker: Nikola
Kuzmanovski**
University of Notre Dame

Lecture Title:

A structural property of generic initial ideals



Date: Thursday, September 17, 2026

Time: 3:30 PM

Location: 258 Hurley Hall

Abstract:

For over a century mathematicians have studied how to transfer information between a homogeneous ideal and its initial ideal. In this talk I will take this topic in the context of regular sequences. I will present an asymptotic structural property of generic initial ideals. This single phenomenon yields results on Hilbert functions, persistence, hyperplane restriction, graded Betti numbers, combinatorial shadow minimization, and Lefschetz properties.