

Colloquium

University of Notre Dame
Department of Mathematics

Juan Migliore - University of Notre Dame

Speaker: Juan Migliore

University of Notre Dame



Will give a lecture entitled

An introduction to projective planes

Date: Friday, May 31, 2019

Time: 5:00 PM

Location: 127 Hayes-Healy Hall

Departmental Tea: Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.

Abstract:

Projective planes lie in the overlap between algebraic geometry and combinatorics. We'll start from a geometric point of view (adding points at infinity), and look at coordinate systems and the road to projective algebraic geometry. Then we'll pass to an axiomatic definition and see some combinatorial consequences in the case of finite projective planes. Finally we'll bring in a little algebra and look at so-called "pure O-sequences" as they relate to finite projective planes. For good measure we'll throw in a little history, Robert Frost, Monty Python and Harry Potter.