

ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR

Speaker: Wenliang Zhang
University of Illinois at Chicago



Date: Wednesday, March 27, 2019

Time: 3:00 PM

Location: 258 Hurley Hall

Lecture Title:

An analogue of the Hartshorne-Polini theorem in positive characteristic

Abstract

Recently, Hartshorne and Polini proved a theorem to characterize the dimension of certain de Rham cohomology groups of a holonomic D-module over complex numbers as the number of specific D-linear maps associated with the holonomic D-module. In this talk, I will explain an analogue of this result in positive characteristic for F-finite F-modules. This is a joint work with Nicholas Switala.