

*Algebraic Geometry and
Commutative Algebra Seminar*



Speaker: Robin Hartshorne
University of California, Berkeley

Wednesday, December 9, 2015
3:00 pm
Room: 258 Hurley Hall

Title: Local Cohomology as D-modules

Abstract:

In joint work with Claudia Polini, we describe the D-module structure of some local cohomology modules. I will explain what a D-module is, some of their basic properties, and then discuss local cohomology modules of the form $H_I^n(A)$, where I is the homogeneous ideal of a projective variety V in \mathbb{P}^n and $A = k[x_0, \dots, x_n]$ is the coordinate ring.