

ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR

Speaker: Alessio Sammartano

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Date: Wednesday, November 20, 2019

Time: 3:00 PM

Location: 258 Hurley Hall

Lecture Title:

On the tangent space to the Hilbert scheme of points in P^3

Abstract

In this work we study the tangent space to the Hilbert scheme $Hilb^d(P^3)$, which parametrizes 0-dimensional subschemes of P^3 of degree d . We are mainly motivated by conjectures of Briançon-Iarrobino on the most singular point in the Hilbert scheme, and by Haiman's work on the Hilbert scheme of P^2 . This is a joint work with Ritvik Ramkumar.