

ALGEBRAIC GEOMETRY SEMINAR

Speaker: Sayanta Mandal
University of Illinois at Chicago



Date: Wednesday, October 16, 2019

Time: 3:00 PM

Location: 258 Hurley Hall

Lecture Title:

Restricted tangent bundle of Grassmannian to rational curves

Abstract

Let $n \geq 4$, $2 \leq r \leq n-2$ and $e \geq 1$. We show that the intersection of the locus of degree e morphisms from P^1 to $G(r,n)$ with the restricted universal sub-bundles having a given splitting type and the locus of degree e morphisms with the restricted universal quotient-bundle having a given splitting type is non-empty and generically transverse. As a consequence, we get that the locus of degree e morphisms from P^1 to $G(r,n)$ with the restricted tangent bundle having a given splitting type can have arbitrarily large number of irreducible components.