Lecture Title: Restricted tangent bundle of Grassmannian to rational curves

Abstract
Let n ≥ 4, 2 ≤ r ≤ n−2 and e ≥ 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.