

1036-14-123

Harry Tamvakis* (harryt@math.umd.edu), Department of Mathematics, 1301 Mathematics Building, College Park, MD 20742. *A Giambelli formula for isotropic Grassmannians.*

Let X be a symplectic Grassmannian parametrizing isotropic subspaces in a vector space equipped with a nondegenerate skew symmetric form. We will discuss our work on a Giambelli formula which expresses an arbitrary Schubert class in the cohomology ring of X as a polynomial in certain special Schubert class generators. We also introduce theta polynomials, a family of combinatorially explicit polynomials whose algebra agrees with the Schubert calculus on X . This is joint work with Anders Buch and Andrew Kresch. (Received January 18, 2008)