

1051-14-56

Leonardo C Mihalcea* (Leonardo_Mihalcea@baylor.edu), Dept. of Mathematics, Baylor University, Waco, TX 76798, and **Anders Buch**. *Geometric properties of Gromov-Witten varieties for homogeneous spaces.*

If X is a generalized flag manifold, the Gromov-Witten variety is the space of all rational curves of fixed degree in X , passing through a fixed number of Schubert varieties, and compactified appropriately. In this talk I will discuss some geometric properties of these varieties, such as their singularities, and few instances when they are rationally connected. (Received August 09, 2009)