

Algebra/Topology Seminar

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SHEAF EULER CHARACTERISTICS IN COMINUSCULE QUANTUM K -THEORY

Thursday, October 20, 2016
1:15 p.m. in ES-143

ABSTRACT. Let $X = G/P$ be a flag variety with the action of a torus $T = (\mathbb{C}^*)^n$. Its T -equivariant quantum K -theory ring is a deformation of the Grothendieck ring of T -equivariant coherent sheaves on X . We will present a brief overview of these rings before we discuss three curious properties of the equivariant quantum K -theory ring for X cominuscule. These properties relate the ring structure to sheaf Euler characteristics and to the geometry of rational curves in X . This is joint work with Anders Buch.