

# Homology of affine Grassmannian and quantum cohomology

*Friday, February 8, 2019 9:30 AM (1 hour)*

Let  $G$  be a complex reductive group, and  $X$  be a smooth projective  $G$ -variety. We will construct an algebra homomorphism from the homology of the affine Grassmannian  $Gr_G$  to the  $G$ -equivariant quantum cohomology of  $X$ . The construction uses shift operators in quantum cohomologies. Joint work with Alexander Braverman.

**Presenter:** SU, Changjian

**Session Classification:** Changjian Su: Homology of affine Grassmannian and quantum cohomology