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Leonardo Constantin Mihalcea* (lmihalce@umich.edu), Department of Mathematics, 525 E. University, East Hall, Ann Arbor, MI 48109. *Factorial Schur functions represent the equivariant quantum Schubert classes.*

The (small) equivariant quantum cohomology (eq.q.coh.) of a homogeneous variety $X=G/P$ is an algebra which is a deformation of both equivariant and quantum cohomology algebras of X . It was introduced by A. Givental and B. Kim primarily to study the quantum cohomology of X .

The eq.q.coh. has a distinguished basis determined by the Schubert classes of X . The purpose of this talk is to show that with respect to a certain presentation of the eq.q.coh. of the Grassmannian, the Schubert classes are given by the factorial Schur functions. (Received February 21, 2005)