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Polynomials from the Grassmannian and the affine Grassmannian. Preliminary report.

The Peterson isomorphism relates the homology of the affine Grassmannian and the quantum cohomology of flag varieties. Both sides carry rich symmetric function theories, but it is not trivial to see how they are related. This talk will discuss preliminary results relating “cyclic factorial Schur” polynomials with k -double Schur functions: geometry rules that the two must be related, but the symmetric function side is only recently unfolding. (Received July 28, 2014)