Flag Gromov-Witten invariants and Macdonald polynomials.

We show how to identify the set of 3-point Gromov-Witten invariants for flag manifolds and the WZW fusion rules as coefficients in a product of k-Schur functions. Using symmetric function combinatorics, we describe a defining set of invariants. Time permitting, we show how this approach gives a t-parameter family of representatives for the Schubert classes of cohomology of the affine Grassmannian that is connected to Macdonald symmetric functions. (Received September 17, 2013)