1048-05-365 Anders S Buch* (asbuch@math.rutgers.edu), Andrew Kresch and Harry Tamvakis. Quantum Giambelli formulas for symplectic Grassmannians.

The symplectic Grassmannian X = IG(m,2n) is the set of m-dimensional isotropic subspaces in a symplectic vector space of dimension 2n. In joint work with Kresch and Tamvakis, we have proved a Pieri formula for multiplying with the special Schubert classes that generate the (quantum) cohomology ring of X. I will speak about a Giambelli formula that expresses any quantum Schubert class as a polynomial in the special classes. This formula is new also in the ordinary cohomology of X, and interpolates between the Jacobi-Trudi determinant formula known from Grassmannians of type A, and the Pfaffian formula for Schubert classes on the Lagrangian Grassmannian IG(n,2n). (Received February 10, 2009)