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Computations in equivariant quantum cohomology of Grassmannians. Preliminary report.

The (small) quantum cohomology of Grassmannians has been studied by a number of mathematicians, but its rich combinatorics continue to yield interesting connections and insights. In this talk we give a brief introduction to existing combinatorial techniques for computation in the (equivariant) (quantum) cohomology ring of a Grassmannian and present new methods that clarify the combinatorial structure of equivariant quantum Littlewood-Richardson coefficients. (Received February 19, 2013)