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Kaisa Taipale* (taipale@umn.edu), **Anna Bertiger** and **Elizabeth Beazley**. *Equivariant quantum cohomology of the Grassmannian: combinatorics and geometry*. Preliminary report.

Schubert calculus, quantum cohomology, and the Peterson isomorphism overlap to showcase beautiful and puzzling combinatorial patterns. In particular, the Grassmannian is the setting for elegant tricks like the quantum and equivariant quantum rim-hook rules for quantum products. This talk will discuss the equivariant quantum cohomology of the Grassmannian in view of the Peterson isomorphism, with reference to both symmetric function theory and geometry. (Received September 22, 2014)