1165-14-286 **Anders Buch***, asbuch@math.rutgers.edu, and **Pierre-Emmanuel Chaput**, **Leonardo Mihalcea** and **Nicolas Perrin**. *A Pieri rule for the quantum K-theory of maximal orthogonal Grassmannians.* Preliminary report.

The quantum K-theory ring of a flag variety is a generalization of the quantum cohomology ring that encodes the arithmetic genera of Gromov-Witten varieties in its structure constants. I will speak about a Pieri formula that makes it easy to do computations in the quantum K-theory of maximal orthogonal Grassmannians. This formula is derived from an existing Pieri formula for the ordinary K-theory ring, as well as a new result showing that the fundamental group of Aut(X) acts on the quantum K-theory of X when X is any cominuscule flag variety. This is joint work with Chaput, Mihalcea, and Perrin. (Received January 19, 2021)