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Sjuvon Chung* (sjuvon.chung@rutgers.edu) and **Anders S. Buch**. *Euler characteristics and quantum K -theory of cominuscule flag varieties.*

The quantum K -theory ring of a flag variety G/P is a K -theoretic version of its quantum cohomology ring. In this talk we will discuss a quantum K -theoretic identity satisfied by opposite Schubert varieties of G/P , when G/P is cominuscule. This identity uses the Euler characteristic map—i.e., pushforward to a point—to relate the quantum K -theoretic product of opposite Schubert varieties to the minimal degree of a rational curve connecting them. In conclusion we will discuss consequences of this identity to the quantum (and non-quantum) K -theory of G/P . (Received March 21, 2017)