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Carolina Benedetti, Nantel Bergeron, Laura Colmenarejo, Franco Saliola*
(saliola.franco@uqam.ca) and **Frank Sottile**. *A Murnaghan-Nakayama Rule for Quantum Cohomology of the Flag Manifold.*

We present a general rule for multiplying a quantum Schubert polynomial by a quantum power sum polynomial. This is achieved by relating the structure constants for the multiplication of a quantum Schubert polynomial by a hook quantum Schur polynomial with the structure constants for the (classical) multiplication of a Schubert polynomial by a hook Schur polynomial. (Received July 18, 2017)