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A quantum Murnaghan Nakayama rule for Schubert polynomials.

We present a quantum Murnaghan Nakayama rule for the multiplication of any Schubert polynomial by a Schur polynomial (the Schubert polynomial of a Grassmannian permutation). For this, we consider the action on the left (on the values) presented by N. Bergeron and F. Sotille, and the action on the right (on the position) presented by Postnikov. Both actions present properties related to cyclic invariance. We also describe a classic interval representative for any "hook interval". This is a current work with C. Benedetti, N. Bergeron, F. Saliola and F. Sotille.