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Steenrod structures on quantum groups. Preliminary report.

(joint with A. Beliakova and H. Queffelec) The Steenrod algebra is essential element in the study of the algebraic topology of spaces. The structures which underly the construction of categorified quantum groups are modules over this algebra in a natural way. This observation leads to a study which enriches the categorified quantum groups and associated constructions. In particular, knot homology theories. (Received September 16, 2013)