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Twisting Manin's universal quantum groups and comodule algebras

In this talk, we will discuss the homological properties invariant under Morita-Takeuchi equivalence. In particular, we consider the infinite coaction of the Manin's universal quantum groups on an AS-regular algebra. As a consequence, the AS-regularity is invariant under 2-cocycle twist. This is joint work with Hongdi Huang, Van C. Nguyen, Charlotte Ure, Kent B. Vashaw, and Padmini Veerapen.