PADMINI VEERAPEN, Tennessee Tech University
Cocycle twists and Manin's universal quantum groups

We examine 2-cocycle twists of a family of infinite-dimensional Hopf algebras, known as Manin's universal quantum groups, denoted by $\underline{\mathrm{aut}}(A)$, which Manin showed, universally coact on connected graded quadratic algebras, A. In this talk, we consider $\underline{\mathrm{aut}}(A)$ under a more general setting, namely, when A is a finitely generated algebra subject to m-homogeneous relations and show how $\underline{\mathrm{aut}}(A)$ can be twisted by 2-cocycles. This is joint work with V. C. Nguyen, H. Huang, C. Ure, K. B. Vashaw, and X. Wang.