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Philip M Gipson* (philip.gipson@cortland.edu). *Equivalences for Representations of Toeplitz Algebras.*

A Toeplitz algebra is C^* -algebra which is universal for being generated by a countable family of isometric operators. These algebras and their representations are surprisingly pervasive throughout the theory of operator algebras. In this talk we present two new notions of equivalence for representations of a finitely generated Toeplitz algebra, termed "free-equivalence" and "quasifree-equivalence," which take their inspiration from the theory of Hilbert modules. We will conclude with two new theorems which use these new equivalences to generalize known results in the theory of endomorphisms of operator algebras. (Received July 17, 2017)