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Philip M Gipson* (philip.gipson@cortland.edu), Dept. of Mathematics, SUNY Cortland, Cortland, NY 13045. *On Equivalence for Representations of Toeplitz Algebras.*

A Toeplitz algebra is a self-adjoint operator algebra which is universal for being generated by a finite family of isometric operators. These algebras and their representations into $\mathcal{B}(\mathcal{H})$, the algebra of bounded adjointable operators on Hilbert space, are surprisingly pervasive throughout the theory of operator algebras. In this talk we present two new notions of equivalence for representations of a Toeplitz algebra, free- and quasifree-equivalence, which take their inspiration from the theory of Hilbert modules. We will conclude with two new theorems which use our equivalences to generalize known results in the theory of endomorphisms of operator algebras. (Received July 14, 2016)