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**Commutants of Toeplitz operators with separately radial polynomial symbols
on the Fock space**

Abstract

My talk concerns commuting Toeplitz operators on the Fock space \mathcal{F}_n^2 . Let φ be a separately radial polynomial in z and \bar{z} in \mathbb{C}^n . Then the Toeplitz operator T_φ is diagonal with respect to the standard orthonormal basis of \mathcal{F}_n^2 . We obtain a characterization of polynomially bounded functions ψ for which T_ψ commutes with T_φ . Substantially different from the radial case, the characterization depends highly on the behavior of the polynomial φ . I will discuss several examples and consequences of our result. This is joint work with Amila Appuhamy.

Talk time: 07/18/2016 3:30PM— 07/18/2016 3:50PM
Talk location: Cupples I Room 215

Special Session: Toeplitz operators and related topics. Organized by S. Grudsky and N. Vasilevski.