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Cinvestav

On Toeplitz operators on poly-Bergman spaces

Abstract

We give a new isomorphic description of the poly-Bergman spaces of the upper half-plane Π, and describe the C^*-algebra generated by all Toeplitz operators, acting on each poly-Bergman space, whose symbols depend only on $\theta = \arg z$ and have limits values at $\theta = 0$ and $\theta = \pi$. This C^*-algebra is isomorphic and isometric to the C^*-algebra consisting of all matrices $M(x) \in M_n(\mathbb{C}) \otimes C[-\infty, +\infty]$ such that $M(-\infty), M(\infty) \in \mathbb{C}I$.

Talk time: 07/18/2016 4:00PM— 07/18/2016 4:20PM
Talk location: Cupples I Room 215

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