On Toeplitz operators on poly-Bergman spaces

Abstract

We give a new isomorphic description of the poly-Bergman spaces of the upper half-plane \( \Pi \), 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 \( M(-\infty), M(\infty) \in \mathbb{C}I \).

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