

Maribel Loaiza

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  $\Pi$ , 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  $M(-\infty), M(\infty) \in \mathbb{C}I$ .

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.