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Breitner Ocampo (Vol. 19 No. 1 2015)

Toeplitz operators with piecewise quasicontinuous symbols Breitner Ocampo

For a fixed subset of the unit circle Λ , we define the algebra $P(\Lambda)$ of piecewise continuous functions in Λ with one sided limits at each point $\lambda \in \Lambda$. Besides, we let $\mathcal{PQ}(\Lambda)$ stands for the \mathcal{PQ} -algebra of quasicontinuous functions on Λ defined by D. Sarason in [5]. We define then $\mathcal{PQ}(\Lambda)$ as the \mathcal{PQ} -algebra generated by $\mathcal{P}(\Lambda)$ and $\mathcal{Q}(\Lambda)$.

$A^2(\mathbb{D})$ stands for the Bergman space of the unit disk \mathbb{D} , that is, the space of square integrable and analytic functions defined on \mathbb{D} . Our goal is to describe $\mathcal{T}(\Lambda)$, the algebra generated by Toeplitz operators whose symbols are certain extensions of functions in $\mathcal{PQ}(\Lambda)$ acting on $A^2(\mathbb{D})$. Of course, a function defined on Λ can be extended to the disk in many ways. The more natural extensions are the harmonic and the radial ones. In the paper we describe the algebra $\mathcal{T}(\Lambda)$ and we prove that this description does not depend on the extension chosen.

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