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Bicomplex Weighted Hardy Spaces and Bicomplex C^* -algebras

Romesh Kumar , Kulbir Singh, Heera Saini & Sanjay Kumar

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Abstract

In this paper we study the bicomplex version of weighted Hardy spaces. Further, we describe reproducing kernels for the bicomplex weighted Hardy spaces. In particular, we generalize some results which holds for the classical weighted Hardy spaces. We also introduce the notion of bicomplex C^* -algebra and discuss some of its properties.