

Completely Sidon sets in C^* -algebras

by

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Sept. 8, 2017

Abstract

Recently, following Bourgain and Lewko, we generalized the theory of Sidon sets in commutative discrete groups to subsets of bounded orthonormal systems on L_2 of any probability space that span a copy of ℓ_1 . We will describe this in the talk and explain how this new viewpoint can be extended to subsets of non-commutative C^* -algebras (or von Neumann algebras) that span an operator space completely isomorphic to ℓ_1 equipped with its maximal operator space structure.