

Operator algebras associated with multi-valued mappings

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Abstract

In the paper a new approach is proposed to construction of operator algebras generated by multi-valued mappings on a countable set. We present initial results, discuss the connection with known structures, outline further research directions. © 2014 Pleiades Publishing, Ltd.

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Keywords

C*-algebra, conditional expectation, crossed product, many-valued mapping, polymorphism, representation