

SELF-SIMILAR GROUPS, OPERATOR ALGEBRAS AND SCHUR COMPLEMENTS

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Dedicated to the 70th birthday of D.V. Anusov

ABSTRACT. In the first part of the article we introduce C^* -algebras associated to self-similar groups and study their properties and relations to known algebras. The algebras are constructed as sub-algebras of the Cuntz-Pimsner algebra (and its homomorphic images) associated with the self-similarity of the group. We study such properties as nuclearity, simplicity and Morita equivalence with algebras related to solenoids.

The second part deals with the Schur complement transformations of elements of self-similar algebras. We study properties of such transformations and apply them to the spectral problem for Markov type elements in self-similar C^* -algebras. This is related to the spectral problem of the discrete Laplace operator on groups and graphs. Application of the Schur complement method in many situations reduces the spectral problem to study of invariant sets (very often of the type of a "strange attractor") of a multidimensional rational transformation. A number of illustrating examples is provided. Finally we observe a relation between the Schur complement transformations and Bartholdi-Kaimanovich-Virag transformations of random walks on self-similar groups.

1. INTRODUCTION

Self-similar groups is a class of groups which attracts more and more attention of researchers from different areas of mathematics, and first of all from group theory.

Self-similar groups (whose study was initiated by the first named author, N. Gupta, S. Sidki, A. Brunner, P.M. Neumann, and others) possess many nice and unusual properties which allow to solve difficult problems of group theory and related areas, even including problems in Riemannian geometry and holomorphic dynamics. They are closely related to groups generated by finite automata (studied by J. Hořeňák, V.M. Glushkov, S. V. Alekhin, V.I. Sushchanski and others) and many of them belong to another interesting class of groups—the class of branch groups. We recommend the following sources for the basic definitions and properties [38, 4, 24, 52].

One of the main features that makes the class of self-similar groups important is that it makes possible treatment of the renorm group in a noncommutative setting. This passage from cyclic to a non-commutative renormalization can be compared with the passage from classical to non-commutative geometry, i.e., passage from commutative C^* -algebras of continuous functions to non-commutative C^* -algebras, see [10].

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