Spectral gap and strict outerness for actions of locally compact groups on full factors

Amine MARRAKCHI and Stefaan VAES

Abstract. We prove that an outer action of a locally compact group G on a full factor M is automatically strictly outer, meaning that the relative commutant of M in the crossed product is trivial. If moreover the image of G in the outer automorphism group $\operatorname{Out} M$ is closed, we prove that the crossed product remains full. We obtain this result by proving that the inclusion of M in the crossed product automatically has a spectral gap property. Such results had only been proven for actions of discrete groups and for actions of compact groups, by using quite different methods in both cases. Even for the canonical free Bogoljubov actions on free group factors or free Araki–Woods factors, these results are new.

1. Introduction and main results

To every strongly continuous action $G \curvearrowright^{\alpha} M$ of a locally compact group G on a von Neumann algebra M is associated the *crossed product* von Neumann algebra $M \rtimes G$. Questions on how properties of the group action $G \curvearrowright^{\alpha} M$ are reflected by properties of the crossed product $M \rtimes G$ or the inclusion $M \subset M \rtimes G$ are among the most fundamental questions in operator algebras. When G is a discrete group, several of the basic questions are easy to answer. For instance, for discrete groups G, we have that the relative $M' \cap M \rtimes G$ is as small as possible, i.e. equal to the center $\mathcal{Z}(M)$, if and only if the action $G \curvearrowright^{\alpha} M$ is *properly outer*: if $g \in G \setminus \{e\}$ and $b \in M$ are such that $b\alpha_g(a) = ab$ for all $a \in M$, then $b = 0$. In particular, for an action $G \curvearrowright^{\alpha} M$ of a discrete group G on a factor M, we have that $M' \cap M \rtimes G = \mathbb{C}1$ if and only if the action α is *outer*, meaning that α_g is an outer automorphism for every $g \in G \setminus \{e\}$.

When the acting group G is no longer discrete, even these simple questions turn out to be quite subtle. Following [20], a strongly continuous action $G \curvearrowright^{\alpha} M$ on a factor M

Positive Polynomials And Product Type Actions Of Compact Groups

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Positive Polynomials And Product Type Actions Of Compact Groups:

Positive Polynomials and Product Type Actions of Compact Groups David Handelman,1985 This paper is largely devoted to the behaviour of operators which are polynomials in several variables in full and one sided shifts together with their corresponding Toeplitz operators with consequences for product type actions of compact connected Lie groups Problems are of the type for which vectors will some power of the given operator change the vector into one with only non negative coefficients **Certificates of Positivity for Real Polynomials** Victoria Powers,2021-11-26 This book collects and explains the many theorems concerning the existence of certificates of positivity for polynomials that are positive globally or on semialgebraic sets A certificate of positivity for a real polynomial is an algebraic identity that gives an immediate proof of a positivity condition for the polynomial Certificates of positivity have their roots in fundamental work of David Hilbert from the late 19th century on positive polynomials and sums of squares Because of the numerous applications of certificates of positivity in mathematics applied mathematics engineering and other fields it is desirable to have methods for finding describing and characterizing them For many of the topics covered in this book appropriate algorithms computational methods and applications are discussed This volume contains a comprehensive accessible up to date treatment of certificates of positivity written by an expert in the field It provides an overview of both the theory and computational aspects of the subject and includes many of the recent and exciting developments in the area Background information is given so that beginning graduate students and researchers who are not specialists can learn about this fascinating subject Furthermore researchers who work on certificates of positivity or use them in applications will find this a useful reference for their work *Ideas and Methods in Mathematical Analysis, Stochastics, and Applications: Volume 1* Sergio Albeverio,Helge Holden,Jens Erik Fenstad,Tom Lindstrøm,1992-06-26 A collection of essays by many of the closest co workers of Raphael H egh Krohn **Canadian Journal of Mathematics** ,1992-02 Representation of Lie Groups and Related Topics Anatoliĭ Moiseevich Vershik,Dmitriĭ Petrovich Zhelobenko,1990 Eight papers provide mature readers with careful review of progress through about 1983 toward the creation of a theory of the representations of infinite dimensional Lie groups and algebras and of some related topics Recent developments in physics have provided major impetus for the development of such a theory and the volume will be of special interest to mathematical physicists quantum field theorists Translated from the Russian edition of unstated date and beautifully produced which at the price it should be Book club price 118 NW Annotation copyrighted by Book News Inc Portland OR **Geometric and Probabilistic Structures in Dynamics** Keith Burns,Dmitry Dolgopyat,Ya. B. Pesin,2008 This book presents a collection of articles that cover areas of mathematics related to dynamical systems The authors are well known experts who use geometric and probabilistic methods to study interesting problems in the theory of dynamical systems and its applications Some of the articles are surveys while others are original contributions The topics covered include Riemannian geometry models in mathematical physics and mathematical

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of operator algebras to bring the reader to the frontline of research with the minimum of prerequisites from classical theory

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