ORDERABLE GROUPS AND SEMIGROUP COMPACTIFICATIONS

MICHAEL MEGRELISHVILL

Dedicated to my friend Eli Glasner on the occasion of his 75th birthday

Answracer. Our aim is to find some new links between linear (circular) orderability of groups and topological dynamics. We suggest natural analogs of the concept of algebraic orderability for topological groups involving order-preserving actions on compact spaces and the corresponding enveloping semigroups in the sense of R. Ellis. This approach leads to several natural questions. Some of them might be useful also for discrete (countable) orderable groups.

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1. INTRODUCTION

Orderability properties of groups is an active research direction since a long time. This theory is closely related to topology. See, for example, [8, 10, 5, 3].

Ordered dynamical systems were studied in several recent publications concerning tame systems, Sturmian like circularly ordered symbolic systems and some dynamical generalizations of the amenability concept. See joint works with Eli Glasner [20, 21, 22, 23] and also [33]. Investigation of order-preserving compact dynamical systems provides natural framework to study orderable groups (and the orderability itself). We hope that bringing some more dynamical tools, like the Ellis semigroup and Banach representations of actions, to the theory of orderable groups can lead to new interesting lines of research. In Section 2, we give some background about circular orders and necessary results about circular topology. Some of these results seem to be new and hopefully have independent interest.

The following topological version of (left) linear and circular orderability of abstract groups first was defined in [20].

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Orderable Groups

Michael Rajnik

Orderable Groups:

Right-Ordered Groups Valerii Matveevich Kopytov, V.M. Kopytov, Nikolai Yakovlevich Medvedev, 1996-04-30 The notion of right ordered groups is fundamental in theories of I groups ordered groups torsion free groups and the theory of zero divisors free rings as well as in theoretical physics Right Ordered Groups is the first book to provide a systematic presentation of right ordered group theory describing all known and new results in the field The volume addresses topics such as right ordered groups and order permutation groups the system of convex subgroups of a right ordered group and free products of right ordered groups Groups St Andrews 2009 in Bath: Volume 1 C. M. Campbell, M. R. Quick, E. F. Robertson, C. M. Roney-Dougal, G. C. Smith, G. Traustason, 2011-06-16 Groups St Andrews 2009 was held in the University of Bath in August 2009 and this first volume of a two volume book contains selected papers from the international conference Five main lecture courses were given at the conference and articles based on their lectures form a substantial part of the proceedings This volume contains the contributions by Gerhard Hiss RWTH Aachen and Volodymyr Nekrashevych Texas A M Apart from the main speakers refereed survey and research articles were contributed by other conference participants Arranged in alphabetical order these articles cover a wide spectrum of modern group theory. The regular proceedings of Groups St Andrews conferences have provided snapshots of the state of research in group theory throughout the past 30 years Earlier volumes have had a major impact on the development of group theory and it is anticipated that this volume will The Theory of Lattice-Ordered Groups V.M. Kopytov, N.Ya. Medvedev, 2013-03-09 A partially ordered be equally important group is an algebraic object having the structure of a group and the structure of a partially ordered set which are connected in some natural way These connections were established in the period between the end of 19th and beginning of 20th century It was realized that ordered algebraic systems occur in various branches of mathemat ics bound up with its fundamentals For example the classification of infinitesimals resulted in discovery of non archimedean ordered al gebraic systems the formalization of the notion of real number led to the definition of ordered groups and ordered fields the construc tion of non archimedean geometries brought about the investigation of non archimedean ordered groups and fields The theory of partially ordered groups was developed by R Dedekind a Holder D Gilbert B Neumann A I Mal cev P Hall G Birkhoff These connections between partial order and group operations allow us to investigate the properties of partially ordered groups For exam ple partially ordered groups with interpolation property were introduced in F Riesz s fundamental paper 1 as a key to his investigations of partially ordered real vector spaces and the study of ordered vector spaces with interpolation properties were continued by many functional analysts since The deepest and most developed part of the theory of partially ordered groups is the theory of lattice ordered groups In the 40s following the publications of the works by G Birkhoff H Nakano and P Cellular Automata and Groups Tullio Ceccherini-Silberstein, Michel Coornaert, 2024-01-13 This unique book provides a self contained exposition of the theory of cellular automata on groups and explores its deep connections with

recent developments in geometric and combinatorial group theory amenability symbolic dynamics the algebraic theory of group rings and other branches of mathematics and theoretical computer science. The topics treated include the Garden of Eden theorem for amenable groups the Gromov Weiss surjunctivity theorem and the solution of the Kaplansky conjecture on the stable finiteness of group rings for sofic groups Entirely self contained and now in its second edition the volume includes 10 appendices and more than 600 exercises the solutions of which are presented in the companion book Exercises in Cellular Automata and Groups 2023 by the same authors. It will appeal to a large audience including specialists and newcomers to the field Partially Ordered Groups A M W Glass, 1999-07-22 Recently the theory of partially ordered groups has been used by analysts algebraists topologists and model theorists. This book presents the most important results and topics in the theory with proofs that rely on and interplay with other areas of mathematics. It concludes with a list of some unsolved problems for the reader to tackle In stressing both the special techniques of the discipline and the overlap with other areas of pure mathematics the book should be of interest to a wide audience in diverse areas of mathematics. Infinite Group Theory: From The Past To The Future Paul Baginski, Benjamin Fine, Anthony Gaglione, 2017-12-26. The development of algebraic geometry over groups geometric group theory and group based cryptography has led to there being a tremendous recent interest in infinite group theory.

Groups - Korea 94 A.C. Kim, D.L. Johnson, 2011-06-15 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications <u>Lattice-Ordered Groups</u> M.E Anderson, T.H. Feil, 2012-12-06 The study of groups equipped with a compatible lattice order lattice ordered groups or I groups has arisen in a number of different contexts Examples of this include the study of ideals and divisibility dating back to the work of Dedekind and continued by Krull the pioneering work of Hahn on totally ordered abelian groups and the work of Kantorovich and other analysts on partially ordered function spaces After the Second World War the theory of lattice ordered groups became a subject of study in its own right following the publication of fundamental papers by Birkhoff Nakano and Lorenzen The theory blossomed under the leadership of Paul Conrad whose important papers in the 1960s provided the tools for describing the structure for many classes of I groups in terms of their convex I subgroups A particularly significant success of this approach was the generalization of Hahn's embedding theorem to the case of abelian lattice ordered groups work done with his students John Harvey and Charles Holland The results of this period are summarized in Conrad's blue notes C Ordered Algebraic Structures Jorge Martínez, W.C. Holland, 2012-12-06 This volume contains a selection of papers presented at the 1991 Conrad Conference held in Gainesville Florida USA in December 1991 Together these give an overview of some recent advances in the area of ordered algebraic structures. The first part of the book is devoted to ordered permutation groups and

universal as well as model theoretic aspects. The second part deals with material variously connected to general topology and functional analysis Collectively the contents of the book demonstrate the wide applicability of order theoretic methods and how ordered algebraic structures have connections with many research disciplines For researchers and graduate students whose work involves ordered algebraic structures Encyclopaedia of Mathematics Michiel Hazewinkel, 1993-01-31 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fme subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics. These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques Groups, Modules, and Model Theory - Surveys and Recent Developments Manfred Droste, László Fuchs, Brendan Goldsmith, Lutz Strüngmann, 2017-06-02 This volume focuses on group theory and model theory with a particular emphasis on the interplay of the two areas. The survey papers provide an overview of the developments across group module and model theory while the research papers present the most recent study in those same areas With introductory sections that make the topics easily accessible to students the papers in this volume will appeal to beginning graduate students and experienced researchers alike As a whole this book offers a cross section view of the areas in group module and model theory covering topics such as DP minimal groups Abelian groups countable 1 transitive trees and module approximations The papers in this book are the proceedings of the conference New Pathways between Group Theory and Model Theory which took place February 1 4 2016 in M lheim an der Ruhr Germany in honor of the editors colleague R diger G bel This publication is dedicated to Professor G bel who passed away in 2014 He was one of the leading **Ordered Groups and Topology** Adam Clay, Dale Rolfsen, 2016-11-16 This book deals experts in Abelian group theory with the connections between topology and ordered groups It begins with a self contained introduction to orderable groups and from there explores the interactions between orderability and objects in low dimensional topology such as knot theory braid groups and 3 manifolds as well as groups of homeomorphisms and other topological structures. The book also addresses recent applications of orderability in the studies of codimension one foliations and Heegaard Floer homology The use of topological methods in proving algebraic results is another feature of the book The book was written to serve both as a textbook for graduate students containing many exercises and as a reference for researchers in topology algebra and dynamical systems A basic background in group theory and topology is the only prerequisite for the reader

Encyclopaedia of Mathematics M. Hazewinkel, 2013-12-01 Canadian Mathematical Bulletin ,1993-03 Lattice **Theory** Garrett Birkhoff, 1940-12-31 Since its original publication in 1940 this book has been revised and modernized several times most notably in 1948 second edition and in 1967 third edition The material is organized into four main parts general notions and concepts of lattice theory Chapters I V universal algebra Chapters VI VII applications of lattice theory to various areas of mathematics Chapters VIII XII and mathematical structures that can be developed using lattices Chapters XIII XVII At the end of the book there is a list of 166 unsolved problems in lattice theory many of which still remain open It is excellent reading and the best place to start when one wishes to explore some portion of lattice theory or to appreciate the general flavor of the field Bulletin of the AMS The Metamathematics of Algebraic Systems Lev D. Beklemishev, 2000-04-01 The Metamathematics of Algebraic Systems Library of Congress Subject Headings Library of Congress, Library of Congress. Office for Subject Cataloging Policy, 2012 **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office, 2009 Fully Ordered Groups Aleksandr Il'ich Kokorin, Valerii Matveevich Kopytov, 1974 Orderable Groups Roberta Botto Mura, Akbar Rhemtulla, 1977

Orderable Groups Book Review: Unveiling the Power of Words

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