Partially Ordered Abelian Groups with Interpolation

Kenneth R. Goodearl

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H. L. Manocha, J. B. Srivastava

Partially Ordered Abelian Groups With Interpolation:
    Partially Ordered Abelian Groups with Interpolation K. R. Goodearl,2010-05-30 A branch of ordered algebraic structures has grown motivated by K theoretic applications and mainly concerned with partially ordered abelian groups satisfying the Riesz interpolation property This monograph is the first source in which the algebraic and analytic aspects of these interpolation groups have been integrated into a coherent framework for general reference The author provides a solid foundation in the structure theory of interpolation groups and dimension groups directed unperforated interpolation groups with applications to ordered K theory particularly in mind Although interpolation groups are defined as purely algebraic structures their development has been strongly influenced by functional analysis This cross cultural development has left interpolation groups somewhat estranged from both the algebraists who may feel intimidated by compact convex sets and the functional analysts who may feel handicapped by the lack of scalars This book requiring only standard first year graduate courses in algebra and functional analysis aims to make the subject accessible to readers from both disciplines High points of the development include the following characterization of dimension groups as direct limits of finite products of copies of the integers the double dual representation of an interpolation group with order unit via affine continuous real valued functions on its state space the structure of dimension groups complete with respect to the order unit norm as well as monotone sigma complete dimension groups and dimension groups with countably infinite interpolation and an introduction to the problem of classifying extensions of one dimension group by another The book also includes a development of portions of the theory of compact convex sets and Choquet simplices and an expository discussion of various applications of interpolation group theory to rings and C DEGREES algebras via ordered K_0 A discussion of some open problems in interpolation groups and dimension groups concludes the book Of interest of course to researchers in ordered algebraic structures the book will also be a valuable source for researchers seeking a background in interpolation groups and dimension groups for applications to such subjects as rings operator algebras topological Markov chains positive polynomials compact group actions or other areas where ordered Grothendieck groups might be useful This is a reprint of the 1986 original SUR   **Partially Ordered Abelian Groups with Interpolation** K. P. Goodearl,1986   Affine Representations of Grothendieck Groups and Applications to Rickart $C^\ast $-Algebras and $\aleph _0$-Continuous Regular Rings K. R. Goodearl,David Handelman,John W. Lawrence,1980 This paper is concerned with the structure of three interrelated classes of objects partially ordered abelian groups with countable interpolation Hebrew Aleph0 continuous regular rings and finite Rickart C algebras The connection from these rings and algebras to these groups is the Grothendieck group K0 which for all Hebrew Aleph0 continuous regular rings and most finite Rickart C algebras is a partially ordered abelian group with countable interpolation Such partially ordered groups are shown to possess quite specific representations in spaces of affine continuous functions on Choquet simplices The theme of this paper is to develop the structure theory of these groups and these representations and

to translate the results via K0 into properties of Hebrew Aleph0 continuous regular rings and finite Rickart C algebras

Refinement Monoids, Equidecomposability Types, and Boolean Inverse Semigroups Friedrich Wehrung,2017-09-09 Adopting a new universal algebraic approach this book explores and consolidates the link between Tarski s classical theory of equidecomposability types monoids abstract measure theory in the spirit of Hans Dobbertin s work on monoid valued measures on Boolean algebras and the nonstable K theory of rings This is done via the study of a monoid invariant defined on Boolean inverse semigroups called the type monoid The new techniques contrast with the currently available topological approaches Many positive results but also many counterexamples are provided   Current Research in Operational Quantum Logic Bob Coecke,David Moore,Alexander Wilce,2013-06-29 The present volume has its origins in a pair of informal workshops held at the Free University of Brussels in June of 1998 and May of 1999 named Current Research 1 in Operational Quantum Logic These brought together mathematicians and physicists working in operational quantum logic and related areas as well as a number of interested philosophers of science for a rare opportunity to discuss recent developments in this field After some discussion it was decided that rather than producing a volume of conference proceedings we would try to organize the conferees to produce a set of comprehensive survey papers which would not only report on recent developments in quantum logic but also provide a tutorial overview of the subject suitable for an interested non specialist audience The resulting volume provides an overview of the concepts and methods used in current research in quantum logic viewed both as a branch of mathemati cal physics and as an area of pure mathematics The first half of the book is concerned with the algebraic side of the subject and in particular the theory of orthomodular lattices and posets effect algebras etc In the second half of the book special attention is given to categorical methods and to connections with theoretical computer science At the 1999 workshop we were fortunate to hear three excellent lectures by David J Foulis represented here by two contributions Dave s work spanning 40 years has helped to define and continues to reshape the field of quantum logic   **Algebra and its Applications** H. L. Manocha,J. B. Srivastava,1984-05-31 This volume unites more than fifty international mathematicians spotlighting research that demonstrates the importance of algebra in science and engineering Areas in algebra such as invariant theory group representations commutative algebra and algebraic geometry are important factors in such subjects as quantum physics computing and data communications The International Symposium on Algebra and Its Applications was organized by the Department of Mathematics of the Indian Institute of Technology and held in New Delhi India December 21 25 1981 This volume contains papers presented and the editors wish to express their appreciation to all the authors for their submissions and symposium participants for their enthusiasm   **Handbook of Quantum Logic and Quantum Structures** Kurt Engesser,Dov M. Gabbay,Daniel Lehmann,2011-08-11 Since its inception in the famous 1936 paper by Birkhoff and von Neumann entitled The logic of quantum mechanics quantum logic i e the logical investigation of quantum mechanics has undergone an enormous development Various schools of thought and approaches have emerged and there are

a variety of technical results Quantum logic is a heterogeneous field of research ranging from investigations which may be termed logical in the traditional sense to studies focusing on structures which are on the border between algebra and logic For the latter structures the term quantum structures is appropriate The chapters of this Handbook which are authored by the most eminent scholars in the field constitute a comprehensive presentation of the main schools approaches and results in the field of quantum logic and quantum structures Much of the material presented is of recent origin representing the frontier of the subject The present volume focuses on quantum structures Among the structures studied extensively in this volume are just to name a few Hilbert lattices D posets effect algebras MV algebras partially ordered Abelian groups and those structures underlying quantum probability Written by eminent scholars in the field of logic A comprehensive presentation of the theory approaches and results in the field of quantum logic Volume focuses on quantum structures

Pacific Journal of Mathematics ,1988   **New Trends in Quantum Structures** Anatolij Dvurecenskij,Sylvia Pulmannová,2013-06-29 D Hilbert in his famous program formulated many open mathematical problems which were stimulating for the development of mathematics and a fruitful source of very deep and fundamental ideas During the whole 20th century mathematicians and specialists in other fields have been solving problems which can be traced back to Hilbert s program and today there are many basic results stimulated by this program It is sure that even at the beginning of the third millennium mathematicians will still have much to do One of his most interesting ideas lying between mathematics and physics is his sixth problem To find a few physical axioms which similar to the axioms of geometry can describe a theory for a class of physical events that is as large as possible We try to present some ideas inspired by Hilbert s sixth problem and give some partial results which may contribute to its solution In the Thirties the situation in both physics and mathematics was very interesting A N Kolmogorov published his fundamental work Grundbegriffe der Wahrschein lichkeitsrechnung in which he for the first time axiomatized modern probability theory From the mathematical point of view in Kolmogorov s model the set L of ex perimentally verifiable events forms a Boolean a algebra and by the Loomis Sikorski theorem roughly speaking can be represented by a a algebra S of subsets of some non void set n   **Lecture Notes in Pure and Applied Mathematics** ,1984   **Mathematical Reviews** ,2007   **Systems of Disjoint Representatives of Families of Measurable Sets** Douglas Keith Van Buskirk,1993   *IUMJ.* Indiana University. Department of Mathematics,1980   ,2007   **Demonstratio mathematica** ,2006   **Notices of the American Mathematical Society** American Mathematical Society,1990   Ricerche di matematica ,2000   **Mathematica Scandinavica** ,2007   Subject Guide to Books in Print ,1997   *Book Review Index Cumulation, 1989* Neil E. Walker,Beverly Baer,1990-04 The Index provides a broad coverage and access to book reviews in the general social sciences humanities sciences and fine arts as well as general interest magazines and includes journals from Great Britain Canada Switzerland Israel and Australia In addition it indexes several journals that while published in the US concentrate on reviewing foreign published or foreign language books These include

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Embracing the Tune of Phrase: An Psychological Symphony within **Partially Ordered Abelian Groups With Interpolation**

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