Michel Enock
Jean-Marie Schwartz

Kac Algebras and Duality of Locally Compact Groups

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Anatoli Klimyk,Konrad Schmüdgen

Kac Algebras And Duality Of Locally Compact Groups:

Kac Algebras and Duality of Locally Compact Groups Michel Enock,Jean-Marie Schwartz,2013-03-09 This book deals with the theory of Kac algebras and their dual ity elaborated independently by M Enock and J M Schwartz and by G Kac and L Vajnermann in the seventies The sub ject has now reached a state of maturity which fully justifies the publication of this book Also in recent times the topic of quantum groups has become very fashionable and attracted the attention of more and more mathematicians and theoret ical physicists One is still missing a good characterization of quantum groups among Hopf algebras similar to the character ization of Lie groups among locally compact groups It is thus extremely valuable to develop the general theory as this book does with emphasis on the analytical aspects of the subject instead of the purely algebraic ones The original motivation of M Enock and J M Schwartz can be formulated as follows while in the Pontrjagin duality theory of locally compact abelian groups a perfect symmetry exists between a group and its dual this is no longer true in the various duality theorems of T Tannaka M G Krein W F Stinespring dealing with non abelian locally compact groups The aim is then in the line proposed by G Kac in 1961 and M Takesaki in 1972 to find a good category of Hopf algebras containing the category of locally compact groups and fulfilling a perfect duality   Kac Algebras and Duality of Locally Compact Groups Michel Enock,Jean-Marie Schwartz,2013-01-09 This book deals with the theory of Kac algebras and their dual ity elaborated independently by M Enock and J M Schwartz and by G Kac and L Vajnermann in the seventies The sub ject has now reached a state of maturity which fully justifies the publication of this book Also in recent times the topic of quantum groups has become very fashionable and attracted the attention of more and more mathematicians and theoret ical physicists One is still missing a good characterization of quantum groups among Hopf algebras similar to the character ization of Lie groups among locally compact groups It is thus extremely valuable to develop the general theory as this book does with emphasis on the analytical aspects of the subject instead of the purely algebraic ones The original motivation of M Enock and J M Schwartz can be formulated as follows while in the Pontrjagin duality theory of locally compact abelian groups a perfect symmetry exists between a group and its dual this is no longer true in the various duality theorems of T Tannaka M G Krein W F Stinespring dealing with non abelian locally compact groups The aim is then in the line proposed by G Kac in 1961 and M Takesaki in 1972 to find a good category of Hopf algebras containing the category of locally compact groups and fulfilling a perfect duality   **An Invitation to Quantum Groups and Duality** Thomas Timmermann,2008 This book provides an introduction to the theory of quantum groups with emphasis on their duality and on the setting of operator algebras Part I of the text presents the basic theory of Hopf algebras Van Daele s duality theory of algebraic quantum groups and Woronowicz s compact quantum groups staying in a purely algebraic setting Part II focuses on quantum groups in the setting of operator algebras Woronowicz s compact quantum groups are treated in the setting of C algebras and the fundamental multiplicative unitaries of Baaj and Skandalis are studied in detail An outline of Kustermans and Vaes comprehensive theory of locally

compact quantum groups completes this part Part III leads to selected topics such as coactions Baaj Skandalis duality and approaches to quantum groupoids in the setting of operator algebras The book is addressed to graduate students and non experts from other fields Only basic knowledge of multi linear algebra is required for the first part while the second and third part assume some familiarity with Hilbert spaces C algebras and von Neumann algebras **Locally Compact Quantum Groups and Groupoids** Leonid Vainerman,2008-08-22 The book contains seven refereed research papers on locally compact quantum groups and groupoids by leading experts in the respective fields These contributions are based on talks presented on the occasion of the meeting between mathematicians and theoretical physicists held in Strasbourg from February 21 to February 23 2002 Topics covered are various constructions of locally compact quantum groups and their multiplicative unitaries duality theory for locally compact quantum groups combinatorial quantization of flat connections associated with SL 2 c quantum groupoids especially coming from Depth 2 Extensions of von Neumann algebras C algebras and Rings Many mathematical results are motivated by problems in theoretical physics Historical remarks set the results presented in perspective Directed at research mathematicians and theoretical physicists as well as graduate students the volume will give an overview of a field of research in which great progress has been achieved in the last few years with new ties to many other areas of mathematics and physics Quantum Independent Increment Processes I David Applebaum,B.V. Rajarama Bhat,Johan Kustermans,J. Martin Lindsay,2005-02-18 This volume is the first of two volumes containing the revised and completed notes lectures given at the school Quantum Independent Increment Processes Structure and Applications to Physics This school was held at the Alfried Krupp Wissenschaftskolleg in Greifswald during the period March 9 22 2003 and supported by the Volkswagen Foundation The school gave an introduction to current research on quantum independent increment processes aimed at graduate students and non specialists working in classical and quantum probability operator algebras and mathematical physics The present first volume contains the following lectures L vy Processes in Euclidean Spaces and Groups by David Applebaum Locally Compact Quantum Groups by Johan Kustermans Quantum Stochastic Analysis by J Martin Lindsay and Dilations Cocycles and Product Systems by B V Rajarama Bhat *Banach Algebras and the General Theory of *-Algebras: Volume 2, *-Algebras* Theodore W. Palmer,1994 This is the second volume of a two volume set that provides a modern account of basic Banach algebra theory including all known results on general Banach algebras The author emphasizes the roles of algebra structure and explores the algebraic results which underlie the theory of Banach algebras and algebras Proofs are presented in complete detail at a level accessible to graduate students The books will become the standard reference for the general theory of algebras This second volume deals with algebras Chapter 9 develops the theory of algebras without additional restrictions Chapter 10 proves nearly all the results previously known for Banach algebras and hermitian Banach algebras for algebras with various essentially algebraic restrictions Chapter 11 restates the previous results in terms of Banach algebras and uses them to prove results explicitly involving the complete norm Chapter

12 is devoted to locally compact groups and the algebras related to them **Open Problems in Topology II** Elliott M. Pearl,2011-08-11 This volume is a collection of surveys of research problems in topology and its applications The topics covered include general topology set theoretic topology continuum theory topological algebra dynamical systems computational topology and functional analysis New surveys of research problems in topology New perspectives on classic problems Representative surveys of research groups from all around the world **Quantum Functional Analysis** Aleksandr I␣A␣kovlevich Khelemskiĭ,2010 Interpreting quantized coefficients as finite rank operators in a fixed Hilbert space allows the author to replace matrix computations with algebraic techniques of module theory and tensor products thus achieving a more invariant approach to the subject Motives, Quantum Field Theory, and Pseudodifferential Operators Alan L. Carey,2010 This volume contains articles related to the conference Motives Quantum Field Theory and Pseudodifferntial Operators held at Boston University in June 2008 with partial support from the Clay Mathematics Institute Boston University and the National Science Foundation There are deep but only partially understood connections between the three conference fields so this book is intended both to explain the known connections and to offer directions for further research In keeping with the organization of the conference this book contains introductory lectures on each of the conference themes and research articles on current topics in these fields The introductory lectures are suitable for graduate students and new Ph D s in both mathematics and theoretical physics as well as for senior researchers since few mathematicians are expert in any two of the conference areas Among the topics discussed in the introductory lectures are the appearance of multiple zeta values both as periods of motives and in Feynman integral calculations in perturbative QFT the use of Hopf algebra techniques for renormalization in QFT and regularized traces of pseudodifferential operators The motivic interpretation of multiple zeta values points to a fundamental link between motives and QFT and there are strong parallels between regularized traces and Feynman integral techniques The research articles cover a range of topics in areas related to the conference themes including geometric Hopf algebraic analytic motivic and computational aspects of quantum field theory and mirror symmetry There is no unifying theory of the conference areas at present so the research articles present the current state of the art pointing towards such a unification A Guide to Quantum Groups Vyjayanthi Chari,Andrew N. Pressley,1995-07-27 Since they first arose in the 1970s and early 1980s quantum groups have proved to be of great interest to mathematicians and theoretical physicists The theory of quantum groups is now well established as a fascinating chapter of representation theory and has thrown new light on many different topics notably low dimensional topology and conformal field theory The goal of this book is to give a comprehensive view of quantum groups and their applications The authors build on a self contained account of the foundations of the subject and go on to treat the more advanced aspects concisely and with detailed references to the literature Thus this book can serve both as an introduction for the newcomer and as a guide for the more experienced reader All who have an interest in the subject will welcome this

unique treatment of quantum groups   **Stereotype Spaces and Algebras** Sergei S. Akbarov,2022-08-22 The term stereotype space was introduced in 1995 and denotes a category of locally convex spaces with surprisingly elegant properties Its study gives an unexpected point of view on functional analysis that brings this fi eld closer to other main branches of mathematics namely to algebra and geometry This volume contains the foundations of the theory of stereotype spaces with accurate definitions formulations proofs and numerous examples illustrating the interaction of this discipline with the category theory the theory of Hopf algebras and the four big geometric disciplines topology differential geometry complex geometry and algebraic geometry   **Rohlin Flows on von Neumann Algebras** Toshihiko Masuda,Reiji Tomatsu,2016-10-05 The authors will classify Rohlin flows on von Neumann algebras up to strong cocycle conjugacy This result provides alternative approaches to some preceding results such as Kawahigashi s classification of flows on the injective type II1 factor the classification of injective type III factors due to Connes Krieger and Haagerup and the non fullness of type III0 factors Several concrete examples are also studied   **Handbook of Algebra** ,2003-10-15 Handbook of Algebra   Quantum Groups and Their Representations Anatoli Klimyk,Konrad Schmüdgen,2012-12-06 This book start with an introduction to quantum groups for the beginner and continues as a textbook for graduate students in physics and in mathematics It can also be used as a reference by more advanced readers The authors cover a large but well chosen variety of subjects from the theory of quantum groups quantized universal enveloping algebras quantized algebras of functions and q deformed algebras q oscillator algebras their representations and corepresentations and noncommutative differential calculus The book is written with potential applications in physics and mathematics in mind The basic quantum groups and quantum algebras and their representations are given in detail and accompanied by explicit formulas A number of topics and results from the more advanced general theory are developed and discussed   **Analysis and Quantum Groups** Lars Tuset,2022-07-27 This volume presents a completely self contained introduction to the elaborate theory of locally compact quantum groups bringing the reader to the frontiers of present day research The exposition includes a substantial amount of material on functional analysis and operator algebras subjects which in themselves have become increasingly important with the advent of quantum information theory In particular the rather unfamiliar modular theory of weights plays a crucial role in the theory due to the presence of Haar integrals on locally compact quantum groups and is thus treated quite extensively The topics covered are developed independently and each can serve either as a separate course in its own right or as part of a broader course on locally compact quantum groups The second part of the book covers crossed products of coactions their relation to subfactors and other types of natural products such as cocycle bicrossed products quantum doubles and doublecrossed products Induced corepresentations Galois objects and deformations of coactions by cocycles are also treated Each section is followed by a generous supply of exercises To complete the book an appendix is provided on topology measure theory and complex function theory   **Harmonic Analysis in Hypercomplex Systems** Yu.M. Berezansky,A.A.

Kalyuzhnyi,2013-06-29 First works related to the topics covered in this book belong to J Delsarte and B M Le vitan and appeared since 1938 In these works the families of operators that generalize usual translation operators were investigated and the corresponding harmonic analysis was constructed Later starting from 1950 it was noticed that in such constructions an important role is played by the fact that the kernels of the corresponding convolutions of functions are nonnegative and by the properties of the normed algebras generated by these convolutions That was the way the notion of hypercomplex system with continu ous basis appeared A hypercomplex system is a normed algebra of functions on a locally compact space Q the basis of this hypercomplex system Later similar objects hypergroups were introduced which have complex valued measures on Q as elements and convolution defined to be essentially the convolution of functionals and dual to the original convolution if measures are regarded as functionals on the space of continuous functions on Q However until 1991 the time when this book was written in Russian there were no monographs containing fundamentals of the theory with an exception of a short section in the book by Yu M Berezansky and Yu G Kondratiev BeKo The authors wanted to give an introduction to the theory and cover the most important subsequent results and examples **An Invitation to Noncommutative Geometry** Masoud Khalkhali,Matilde Marcolli,2008 A walk in the noncommutative garden A Connes and M Marcolli Renormalization of noncommutative quantum field theory H Grosse and R Wulkenhaar Lectures on noncommutative geometry M Khalkhali Noncommutative bundles and instantons in Tehran G Landi and W D van Suijlekom Lecture notes on noncommutative algebraic geometry and noncommutative tori S Mahanta Lectures on derived and triangulated categories B Noohi Examples of noncommutative manifolds complex tori and spherical manifolds J Plazas D branes in noncommutative field theory R J Szabo Quantum Symmetries Guillaume Aubrun,Adam Skalski,Roland Speicher,2017-10-11 Providing an introduction to current research topics in functional analysis and its applications to quantum physics this book presents three lectures surveying recent progress and open problems A special focus is given to the role of symmetry in non commutative probability in the theory of quantum groups and in quantum physics The first lecture presents the close connection between distributional symmetries and independence properties The second introduces many structures graphs C algebras discrete groups whose quantum symmetries are much richer than their classical symmetry groups and describes the associated quantum symmetry groups The last lecture shows how functional analytic and geometric ideas can be used to detect and to quantify entanglement in high dimensions The book will allow graduate students and young researchers to gain a better understanding of free probability the theory of compact quantum groups and applications of the theory of Banach spaces to quantum information The latter applications will also be of interest to theoretical and mathematical physicists working in quantum theory *Mathematical Reviews* ,2006 *Principal Structures and Methods of Representation Theory* Dmitriĭ Petrovich Zhelobenko, The main topic of this book can be described as the theory of algebraic and topological structures admitting natural representations by operators in vector spaces These structures include topological algebras Lie algebras

topological groups and Lie groups The book is divided into three parts Part I surveys general facts for beginners including linear algebra and functional analysis Part II considers associative algebras Lie algebras topological groups and Lie groups along with some aspects of ring theory and the theory of algebraic groups The author provides a detailed account of classical results in related branches of mathematics such as invariant integration and Lie s theory of connections between Lie groups and Lie algebras Part III discusses semisimple Liealgebras and Lie groups Banach algebras and quantum groups This is a useful text for a wide range of specialists including graduate students and researchers working in mathematical physics and specialists interested in modern representation theory It is suitable for independent study or supplementary reading Also available from the AMS by this acclaimed author is Compact Lie Groups and Their Representations

Kac Algebras And Duality Of Locally Compact Groups Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Kac Algebras And Duality Of Locally Compact Groups**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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