

DEFORMATION QUANTIZATION FOR ACTIONS OF Q_d^p

VECTOR GAYRAL AND DAVID JONDREVILLE

ABSTRACT. The main objective of this article is to develop the theory of deformation of C^* -algebras endowed with a group action, from the perspective of non-formal equivariant quantization. This program, initiated in [2], aims to extend Rieffel's deformation theory [29] for more general groups than \mathbb{R}^d . In [2], we have constructed such a theory for a class of non-Abelian Lie groups. In the present article, we study the somehow opposite situation of Abelian but non-Lie groups. More specifically, we construct here a deformation theory of C^* -algebras endowed with an action of a finite dimensional vector space over a non-Archimedean local field of characteristic different from 2. At the root of our construction stands the p -adic version of the Weyl quantization introduced by Haras [12] and further extended by Bechata [1] and Unterberger [39].

Keywords: Deformation of C^* -algebras, Equivariant quantization, Local fields, p -adic pseudo-differential analysis

CONTENTS

1. Introduction	1
2. A p -adic pseudo-differential calculus	5
2.1. Framework and notations	5
2.2. Weyl quantization on local fields	8
3. The Fréchet deformation of a C^* -algebra	10
3.1. Spaces of A -valued functions and distributions	11
3.2. The deformed product	15
4. The C^* -deformation of a C^* -algebra	20
4.1. The Wigner functions approach	20
4.2. The C^* -module approach	23
4.3. The twisted crossed product approach	25
5. Properties of the deformation	28
References	35

1. INTRODUCTION

When formulated in the setting of operator algebras, equivariant quantization interconnects both with deformation theory and with quantum groups. These interconnections originate in the work of Rieffel [29], where it is shown that Weyl's pseudo-differential calculus can be used to design a deformation theory for C^* -algebras equipped with a continuous action of \mathbb{R}^d . Applying this deformation process to $C_0(G)$, where G is a locally compact group possessing a copy of \mathbb{R}^d as a closed subgroup and for the action $\rho \otimes \lambda$ of $G \times G$, in [31] Rieffel was further able to produce a large class of examples of quantum groups in the C^* -algebraic setting. In [2], Bichlinsky and one of us have successfully extended Rieffel's

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Deformation Quantization for Actions of \mathbb{R}^d Marc Aristide Rieffel, 1993 This work describes a general construction of a deformation quantization for any Poisson bracket on a manifold which comes from an action of \mathbb{R}^d on that manifold These deformation quantizations are strict in the sense that the deformed product of any two functions is again a function and that there are corresponding involutions and operator norms Many of the techniques involved are adapted from the theory of pseudo differential operators The construction is shown to have many favorable properties A number of specific examples are described ranging from basic ones such as quantum disks quantum tori and quantum spheres to aspects of quantum groups

Deformation quantization for actions of \mathbb{R}^d Marc A. Rieffel, 1993 [Deformation Quantization for Actions of Kählerian Lie Groups](#) Pierre Bieliavsky, Victor Gayral, 2015 Let \mathbb{B} be a Lie group admitting a left invariant negatively curved Kählerian structure Consider a strongly continuous action α of \mathbb{B} on a Fréchet algebra \mathcal{A} Denote by \mathcal{A}^∞ the associated Fréchet algebra of smooth vectors for this action In the Abelian case $\mathbb{B} = \mathbb{R}^{2n}$ and α isometric Marc Rieffel proved that Weyl's operator symbol composition formula the so called Moyal product yields a deformation through Fréchet algebra structures \star_θ α_θ in \mathbb{R}^{2n} on \mathcal{A}^∞

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Operator Algebras and Operator Theory Liming Ge, 1998 This volume contains the proceedings from the International Conference on Operator Algebras and Operator Theory held at the East China Normal University in Shanghai China Participants in the conference ranged from graduate students to postdocs to leading experts who came from around the world Topics covered were C*-algebras von Neumann algebras non self adjoint operator algebras wavelets operator spaces and other related areas This work consists of contributions from invited speakers and some mathematicians who were unable to attend It presents important mathematical ideas while maintaining the uniqueness and

excitement of this very successful event *XVIth International Congress on Mathematical Physics* Pavel Exner,2010 The International Congress on Mathematical Physics is the flagship conference in this exciting field Convening every three years it gives a survey on the progress achieved in all branches of mathematical physics It also provides a superb platform to discuss challenges and new ideas The present volume collects material from the XVIth ICMP which was held in Prague August 2009 and features most of the plenary lectures and invited lectures in topical sessions as well as information on other parts of the congress program This volume provides a broad coverage of the field of mathematical physics from dominantly mathematical subjects to particle physics condensed matter and application of mathematical physics methods in various areas such as astrophysics and ecology amongst others

C^* -Algebras: 1943-1993,1994 *Kontsevich's Deformation Quantization and Quantum Field Theory* Nima Moshayedi,2022-08-11 This book provides an introduction to deformation quantization and its relation to quantum field theory with a focus on the constructions of Kontsevich and Cattaneo Felder This subject originated from an attempt to understand the mathematical structure when passing from a commutative classical algebra of observables to a non commutative quantum algebra of observables Developing deformation quantization as a semi classical limit of the expectation value for a certain observable with respect to a special sigma model the book carefully describes the relationship between the involved algebraic and field theoretic methods The connection to quantum field theory leads to the study of important new field theories and to insights in other parts of mathematics such as symplectic and Poisson geometry and integrable systems Based on lectures given by the author at the University of Zurich the book will be of interest to graduate students in mathematics or theoretical physics Readers will be able to begin the first chapter after a basic course in Analysis Linear Algebra and Topology and references are provided for more advanced prerequisites

Handbook of Homotopy Theory Haynes Miller,2020-01-23 The Handbook of Homotopy Theory provides a panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincar and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by 31 contributors are designed to address novices as well as established mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas

Morita Equivalence in Deformation Quantization Henrique Bursztyn,2001 **Quantization of Noncommutative Poisson Manifolds** Xiang Tang,2004 **Mathematica Scandinavica** ,2001 Deformation Quantization Gilles Halbout,2012-10-25 This book contains eleven refereed research papers on deformation quantization 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 in May 2001 Topics covered are star products over Poisson manifolds quantization of Hopf algebras index theorems globalization and cohomological problems Both the mathematical and the physical approach ranging from asymptotic quantum electrodynamics to operads and prop theory will be presented Historical remarks and surveys 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 that has seen enormous activity in the last years with new ties to many other areas of mathematics and physics

Quantum Groups and Quantum Spaces Robert Budzyński, Wiesław Pusz, Stanisław Zakrzewski, 1997 *Representation Theory of Groups and Algebras* Jeffrey Adams, 1993 Touching on virtually every important topic in modern representation theory this book contains proceedings of the activities of the Representation Theory Group at the University of Maryland at College Park during the years 1989-1992 Covered here are the latest results in the field providing a readable introduction to the work of some of the best young researchers in representation theory The book spans a very broad spectrum for example within real representation theory both semisimple and nonsemisimple analysis are discussed within C algebras both geometric and nongeometric approaches are studied In addition the articles are exceptionally well written and range from research papers aimed at specialists to expository articles accessible to graduate students

Operator Theory, Operator Algebras and Applications William Arveson, 1990 Operator theory has come of age during the last twenty years The subject has developed in several directions using new and powerful methods that have led to the solution of basic problems previously thought to be inaccessible In addition operator theory has had fundamental connections with a range of other mathematical topics For example operator theory has made mutually enriching contacts with other areas of mathematics such as algebraic topology and index theory complex analysis and probability theory The algebraic methods employed in operator theory are diverse and touch upon a broad area of mathematics There have been direct applications of operator theory to systems theory and statistical mechanics And significant problems and motivations have arisen from the subject's traditional underpinnings for partial differential equations This two volume set contains the proceedings of an AMS Summer Institute on Operator Theory Operator Algebras held in July 1988 at the University of New Hampshire The Institute sought to summarize progress and examine the common points of view that now run through the subject With contributions from some of the top experts in the field this publication illuminates a broad range of current research topics in operator theory

Journal of the Ramanujan Mathematical Society, 2003 *Quantum Gromov-Hausdorff Distance and Continuity of Connes and Dubois-Violette's 0-deformations* Hanfeng Li, 2002 *Russian Mathematical Surveys*, 2003

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 - The Rise of Digital Reading Deformation Quantization For Actions Of
 - Advantages of eBooks Over Traditional Books
2. Identifying Deformation Quantization For Actions Of
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Deformation Quantization For Actions Of
 - User-Friendly Interface
4. Exploring eBook Recommendations from Deformation Quantization For Actions Of
 - Personalized Recommendations

- Deformation Quantization For Actions Of User Reviews and Ratings
- Deformation Quantization For Actions Of and Bestseller Lists
- 5. Accessing Deformation Quantization For Actions Of Free and Paid eBooks
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 - Deformation Quantization For Actions Of Compatibility with Devices
 - Deformation Quantization For Actions Of Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Deformation Quantization For Actions Of
 - Highlighting and Note-Taking Deformation Quantization For Actions Of
 - Interactive Elements Deformation Quantization For Actions Of
- 8. Staying Engaged with Deformation Quantization For Actions Of
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Deformation Quantization For Actions Of
- 9. Balancing eBooks and Physical Books Deformation Quantization For Actions Of
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Deformation Quantization For Actions Of
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Deformation Quantization For Actions Of
 - Setting Reading Goals Deformation Quantization For Actions Of
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Deformation Quantization For Actions Of
 - Fact-Checking eBook Content of Deformation Quantization For Actions Of

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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