

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

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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 Kahlerian Lie Groups Pierre Bieliavsky, Victor Gayral, 2015-06-26 Let B be a Lie group admitting a left invariant negatively curved Kahlerian structure Consider a strongly continuous action of B on a Frchet algebra Denote by the associated Frchet algebra of smooth vectors for this action In the Abelian case $B = \mathbb{R}$ and isometric Marc Rieffel proved that Weyl's operator symbol composition formula the so called Moyal product yields a deformation through Frchet algebra structures R on B When B is a algebra every deformed Frchet algebra admits a compatible pre structure hence yielding a deformation theory at the level of algebras too In this memoir the authors prove both analogous statements for general negatively curved Kahlerian groups The construction relies on the one hand on combining a non Abelian version of oscillatory integral on tempered Lie groups with geometrical objects coming from invariant WKB quantization of solvable symplectic symmetric spaces and on the second hand in establishing a non Abelian version of the Calderon-Vaillancourt Theorem In particular the authors give an oscillating kernel formula for WKB star products on symplectic symmetric spaces that fiber over an exponential Lie group

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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

Formality Theory Chiara Esposito, 2014-09-04 This book is a survey of the theory of formal deformation quantization of Poisson manifolds in the formalism developed by Kontsevich It is intended as an educational introduction for mathematical physicists who are dealing with the subject for the first time The main topics covered are the theory of Poisson manifolds star products and their classification deformations of associative algebras and the formality theorem Readers will also be familiarized with the relevant physical motivations underlying the purely mathematical construction

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

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 Poincaré 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

Quantization of Noncommutative Poisson Manifolds Xiang Tang, 2004

Morita Equivalence in Deformation

Quantization Henriette Bursztyn, 2001

Mathematica Scandinavica, 2001

Quantum Groups and Quantum Spaces

Robert Budzyński, Wiesław Pusz, Stanisław Zakrzewski, 1997

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

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*
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