Current Algebras and Groups

Jouko Mickelsson



<u>Current Algebras And Groups Plenum Monographs In</u> <u>Nonlinear Physics</u>

Boris Khesin, Robert Wendt

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Current Algebras and Groups Jouko Mickelsson, 2013-03-09 Let M be a smooth manifold and G a Lie group In this book we shall study infinite dimensional Lie algebras associated both to the group Map M G of smooth mappings from M to G and to the group of diffeomorphisms of M In the former case the Lie algebra of the group is the algebra Mg of smooth mappings from M to the Lie algebra gof G In the latter case the Lie algebra is the algebra Vect M of smooth vector fields on M However it turns out that in many applications to field theory and statistical physics one must deal with certain extensions of the above mentioned Lie algebras In the simplest case M is the unit circle SI G is a simple finite dimensional Lie group and the central extension of Map SI g is an affine Kac Moody algebra The highest weight theory of finite dimensional Lie algebras can be extended to the case of an affine Lie algebra The important point is that Map Sl g can be split to positive and negative Fourier modes and the finite dimensional piece g corre sponding to the zero mode The Geometry of **Infinite-Dimensional Groups** Boris Khesin, Robert Wendt, 2008-09-28 This monograph gives an overview of various classes of infinite dimensional Lie groups and their applications in Hamiltonian mechanics fluid dynamics integrable systems gauge theory and complex geometry The text includes many exercises and open questions Geometric and Algebraic Structures in Differential Equations P.H. Kersten, I.S. Krasil'shchik, 2012-12-06 The geometrical theory of nonlinear differential equations originates from classical works by S Lie and A B cklund It obtained a new impulse in the sixties when the complete integrability of the Korteweg de Vries equation was found and it became clear that some basic and guite general geometrical and algebraic structures govern this property of integrability Nowadays the geometrical and algebraic approach to partial differential equations constitutes a special branch of modern mathematics In 1993 a workshop on algebra and geometry of differential equations took place at the University of Twente The Netherlands where the state of the art of the main problems was fixed This book contains a collection of invited lectures presented at this workshop. The material presented is of interest to those who work in pure and applied mathematics and especially in mathematical physics **Geometric Methods for Quantum Field Theory** Hernan Ocampo, Sylvie Paycha, Andres Reyes, 2001 Both mathematics and mathematical physics have many active areas of research where the interplay between geometry and quantum field theory has proved extremely fruitful Duality gauge field theory geometric quantization Seiberg Witten theory spectral properties and families of Dirac operators and the geometry of loop groups offer some striking recent examples of modern topics which stand on the borderline between geometry and analysis on the one hand and quantum field theory on the other where the physicist s and the mathematician's perspective complement each other leading to new mathematical and physical concepts and results This volume introduces the reader to some basic mathematical and physical tools and methods required to follow the recent developments in some active areas of mathematical physics including duality gauge field theory geometric quantization Seiberg Witten theory spectral properties and families of Dirac operators and the geometry of loop groups It comprises seven

self contained lectures which should progressively give the reader a precise idea of some of the techniques used in these areas as well as a few short communications presented by young participants at the school **Operator Algebras and Their Applications** Robert S. Doran, Efton Park, 2016-07-28 his volume contains the proceedings of the AMS Special Session Operator Algebras and Their Applications A Tribute to Richard V Kadison held from January 10 11 2015 in San Antonio Texas Richard V Kadison has been a towering figure in the study of operator algebras for more than 65 years His research and leadership in the field have been fundamental in the development of the subject and his influence continues to be felt though his work and the work of his many students collaborators and mentees Among the topics addressed in this volume are the Kadison Kaplanksy conjecture classification of C algebras connections between operator spaces and parabolic induction spectral flow C algebra actions von Neumann algebras and applications to mathematical physics **Infinite Dimensional** Kähler Manifolds Alan Huckleberry, Tilmann Wurzbacher, 2012-12-06 Infinite dimensional manifolds Lie groups and algebras arise naturally in many areas of mathematics and physics Having been used mainly as a tool for the study of finite dimensional objects the emphasis has changed and they are now frequently studied for their own independent interest On the one hand this is a collection of closely related articles on infinite dimensional K hler manifolds and associated group actions which grew out of a DMV Seminar on the same subject On the other hand it covers significantly more ground than was possible during the seminar in Oberwolfach and is in a certain sense intended as a systematic approach which ranges from the foundations of the subject to recent developments It should be accessible to doctoral students and as well researchers coming from a wide range of areas The initial chapters are devoted to a rather selfcontained introduction to group actions on complex and symplectic manifolds and to Borel Weil theory in finite dimensions These are followed by a treatment of the basics of infinite dimensional Lie groups their actions and their representations Finally a number of more specialized and advanced topics are discussed e g Borel Weil theory for loop groups aspects of the Virasoro algebra gauge group actions and determinant bundles and second quantization and the geometry of the infinite dimensional Grassmann Algebraic Groups and Their Generalizations: Quantum and Infinite-Dimensional Methods William manifold Joseph Haboush, 1994 Proceedings of a research institute held at Pennsylvania State University July 1991 focusing on quantum and infinite dimensional methods of algebraic groups Topics include perverse sheaves finite Chevalley groups the general theory of algebraic groups representations invariant theory general Index Theory Beyond the Fredholm Case Alan Carey, Galina Levitina, 2022-11-30 This book is about extending index theory to some examples where non Fredholm operators arise It focuses on one aspect of the problem of what replaces the notion of spectral flow and the Fredholm index when the operators in question have zero in their essential spectrum Most work in this topic stems from the so called Witten index that is discussed at length here The new direction described in these notes is the introduction of spectral flow beyond the Fredholm case Creating a coherent picture of numerous investigations and scattered notions of the past 50 years this

work carefully introduces spectral flow the Witten index and the spectral shift function and describes their relationship After the introduction Chapter 2 carefully reviews Double Operator Integrals Chapter 3 describes the class of so called p relative trace class perturbations followed by the construction of Krein's spectral shift function in Chapter 4 Chapter 5 reviews the analytic approach to spectral flow culminating in Chapter 6 in the main abstract result of the book namely the so called principal trace formula Chapter 7 completes the work with illustrations of the main results using explicit computations on two examples the Dirac operator in Rd and a differential operator on an interval Throughout attention is paid to the history of the subject and earlier references are provided accordingly The book is aimed at experts in index theory as well as newcomers to the field Low-Dimensional Models in Statistical Physics and Quantum Field Theory Harald Grosse, Ludwig Pittner, 1996-03-18 This book contains thoroughly written reviews of modern developments in low dimensional modelling of statistical mechanics and quantum systems It addresses students as well as researchers The main items can be grouped into integrable quantum spin systems which lead in the continuum limit to conformal invariant quantum field theory models and their algebraic structures ranging from the Yang Baxter equation and quantum groups to noncommutative Classification and Structure Theory of Lie Algebras of Smooth Sections Hasan Gündoğan, 2011 Lie groups and their derived objects Lie algebras appear in various fields of mathematics and physics At least since the beginning of the 20th century and after the famous works of Wilhelm Killing Elie Cartan Eugenio Elia Levi Anatoly Malcev and Igor Ado on the structure of finite dimensional Lie algebras the classification and structure theory of infinite dimensional Lie algebras has become an interesting and fairly vast field of interest This dissertation focusses on the structure of Lie algebras of smooth and k times differentiable sections of finite dimensional Lie algebra bundles which are generalizations of the famous and well understood affine Kac Moody algebras Besides answering the immediate structural questions center commutator algebra derivations centroid automorphism group this work approaches a classification of section algebras by homotopy theory Furthermore we determine a universal invariant symmetric bilinear form on Lie algebras of smooth sections and use this form to define a natural central extension which is universal at least in the case of Lie algebra bundles with compact base manifold

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