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Péter T. Nagy, Karl Strambach

LOOPS IN GROUP THEORY AND LIE THEORY

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Loops In Group Lie Theory

Karl-Hermann Neeb, Arturo Pianzola

Loops In Group Lie Theory:

Loops in Group Theory and Lie Theory Péter Nagy, Karl Strambach, 2011-06-24 In this book the theory of binary systems is considered as a part of group theory and in particular within the framework of Lie groups The novelty is the consequent treatment of topological and differentiable loops as topological and differentiable sections in Lie groups The interplay of methods and tools from group theory differential geometry and topology symmetric spaces topological geometry and the theory of foliations is what gives a special flavour to the results presented in this book It is the first monograph devoted to the study of global loops So far books on differentiable loops deal with local loops only This theory can only be used partially for the theory of global loops since non associative local structures have in general no global forms The text is addressed to researchers in non associative algebra and foundations of geometry It should prove enlightening to a broad range of readers including mathematicians working in group theory the theory of Lie groups in differential and topological geometry and in algebraic groups The authors have produced a text that is suitable not only for a graduate course but also for selfstudy in the subject by interested graduate students Moreover the material presented can be used for lectures and seminars in algebra topological algebra and geometry

Lie Theory and Its Applications in Physics V H. D. Doebner, V. K. Dobrev, 2004 This volume is targeted at theoretical physicists mathematical physicists and mathematicians working on mathematical models for physical systems based on symmetry methods and in the field of Lie theory understood in the widest sense It includes contributions on Lie theory with two papers by the famous mathematician Kac one paper with Bakalov further papers by Aoki Moens Some other important contributions are in field theory OCo Todorov Grosse Kreimer Sokatchev Gomez string theory OCo Minwalla Staudacher Kostov integrable systems OCo Belavin Helminck Ragoucy quantum mechanical and probabilistic systems OCo Goldin Van der Jeugt Leandre quantum groups and related objects OCo Jakobsen Arnaudon Andruskiewitsch and others The proceedings have been selected for coverage in OCo Index to Scientific Technical Proceedings ISTP ISI Proceedings OCo Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings OCo CC Proceedings OCo Engineering Physical Sciences

Loops in Group and Lie Theory Péter T. Nagy, Karl Strambach, 2002

Quantum Groups and Lie Theory Andrew Pressley, 2002-01-17 Since its genesis in the early 1980s the subject of quantum groups has grown rapidly By the late 1990s most of the foundational issues had been resolved and many of the outstanding problems clearly formulated To take stock and to discuss the most fruitful directions for future research many of the world's leading figures in this area met at the Durham Symposium on Quantum Groups in the summer of 1999 and this volume provides an excellent overview of the material presented there It includes important surveys of both cyclotomic Hecke algebras and the dynamical Yang Baxter equation Plus contributions which treat the construction and classification of quantum groups or the associated solutions of the quantum Yang Baxter equation The representation theory of quantum groups is discussed as is the function algebra approach to quantum groups and there is a new look at the origins of quantum

groups in the theory of integrable systems *Harmonic Maps, Loop Groups, and Integrable Systems* Martin A. Guest, 1997-01-13 Harmonic maps are generalisations of the concept of geodesics They encompass many fundamental examples in differential geometry and have recently become of widespread use in many areas of mathematics and mathematical physics This is an accessible introduction to some of the fundamental connections between differential geometry Lie groups and integrable Hamiltonian systems The specific goal of the book is to show how the theory of loop groups can be used to study harmonic maps By concentrating on the main ideas and examples the author leads up to topics of current research The book is suitable for students who are beginning to study manifolds and Lie groups and should be of interest both to mathematicians and to theoretical physicists *Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics Volume 1* Vladimir Dobrev, 2018-11-28 This book is the first volume of proceedings from the joint conference X International Symposium Quantum Theory and Symmetries QTS X and XII International Workshop Lie Theory and Its Applications in Physics LT XII held on 19-25 June 2017 in Varna Bulgaria The QTS series was founded on the core principle that symmetries underlie all descriptions of quantum systems It has since evolved into a symposium at the forefront of theoretical and mathematical physics The LT series covers the whole field of Lie theory in its widest sense together with its applications in many areas of physics As an interface between mathematics and physics the workshop serves as a meeting place for mathematicians and theoretical and mathematical physicists In dividing the material between the two volumes the Editor has sought to select papers that are more oriented toward mathematics for the first volume and those focusing more on physics for the second However this division is relative since many papers are equally suitable for either volume The topics addressed in this volume represent the latest trends in the fields covered by the joint conferences representation theory integrability entanglement quantum groups number theory conformal geometry quantum affine superalgebras noncommutative geometry Further they present various mathematical results on minuscule modules symmetry breaking operators Kashiwara crystals meta conformal invariance the superintegrable Zernike system *Conformal Field Theory and Topology* Toshiaki Kohno, 2002 Translated from the Japanese this brief monograph offers an introduction to the geometric aspects of conformal field theory and its application to topological variants It begins with a description based on loop groups and proceeds to define topological invariants for knots and 3 manifolds A brief discussion of Chern-Simons permutation theory also appears Diagrams illustrate key points Kohno's credentials are not listed Annotation copyrighted by Book News Inc Portland OR *Lie Theory and Its Applications in Physics* Vladimir Dobrev, 2015-01-26 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i.e. representation theory algebraic geometry infinite dimensional Lie algebras and groups superalgebras and supergroups

groups and quantum groups noncommutative geometry symmetries of linear and nonlinear PDE special functions and others Furthermore the necessary tools from functional analysis and number theory are included This is a big interdisciplinary and interrelated field Samples of these fresh trends are presented in this volume based on contributions from the Workshop Lie Theory and Its Applications in Physics held near Varna Bulgaria in June 2013 This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists and researchers in the field of Lie Theory

Developments and Trends in Infinite-Dimensional Lie Theory Karl-Hermann Neeb, Arturo Ponzola, 2010-10-17 This collection of invited expository articles focuses on recent developments and trends in infinite dimensional Lie theory which has become one of the core areas of modern mathematics The book is divided into three parts infinite dimensional Lie superalgebras geometry of infinite dimensional Lie transformation groups and representation theory of infinite dimensional Lie groups Contributors B Allison D Belti W Bertram J Faulkner Ph Gille H Glickner K H Neeb E Neher I Penkov A Ponzola D Pickrell T S Ratiu N R Scheithauer C Schweigert V Serganova K Styrkas K Waldorf and J A Wolf

Recent Developments in Infinite-Dimensional Lie Algebras and Conformal Field Theory Stephen Berman, 2002 Because of its many applications to mathematics and mathematical physics the representation theory of infinite dimensional Lie and quantized enveloping algebras comprises an important area of current research This volume includes articles from the proceedings of an international conference Infinite Dimensional Lie Theory and Conformal Field Theory held at the University of Virginia Many of the contributors to the volume are prominent researchers in the field This conference provided an opportunity for mathematicians and physicists to interact in an active research area of mutual interest The talks focused on recent developments in the representation theory of affine quantum affine and extended affine Lie algebras and Lie superalgebras They also highlighted applications to conformal field theory integrable and disordered systems Some of the articles are expository and accessible to a broad readership of mathematicians and physicists interested in this area others are research articles that are appropriate for more advanced readers

The Enigmatic Realm of **Loops In Group Lie Theory**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Loops In Group Lie Theory** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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