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Almost Commuting Elements in Compact Lie Groups

Armand Borel
Robert Friedman
John W. Morgan



American Mathematical Society

Almost Commuting Elements In Compact Lie Groups

Thierry Lévy



Almost Commuting Elements In Compact Lie Groups:

Almost Commuting Elements in Compact Lie Groups Armand Borel, Robert Friedman, John W. Morgan, 2002 This text describes the components of the moduli space of conjugacy classes of commuting pairs and triples of elements in a compact Lie group This description is in the extended Dynkin diagram of the simply connected cover together with the co root integers and the action of the fundamental group In the case of three commuting elements we compute Chern Simons invariants associated to the corresponding flat bundles over the three torus and verify a conjecture of Witten which reveals a surprising symmetry involving the Chern Simons invariants and the dimensions of the components of the moduli space

Abstract Band Method via Factorization, Positive and Band Extensions of Multivariable Almost Periodic Matrix Functions, and Spectral Estimation L. Rodman, Ilya M. Spitkovskii, Hugo Jan Woerdeman, 2002 In this work versions of an abstract scheme are developed which are designed to provide a framework for solving a variety of extension problems The abstract scheme is commonly known as the band method The main feature of the new versions is that they express directly the conditions for existence of positive band extensions in terms of abstract factorizations with certain additional properties The results prove amongst other things that the band extension is continuous in an appropriate sense

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

Torsors, Reductive Group Schemes and Extended Affine Lie Algebras Philippe Gille, Arturo Pianzola, 2013-10-23 The authors give a detailed description of the torsors that correspond to multiloop algebras These algebras are twisted forms of simple Lie algebras extended over Laurent polynomial rings They play a crucial role in the construction of Extended Affine Lie Algebras which are higher nullity analogues of the affine Kac Moody Lie algebras The torsor approach that the authors take draws heavily from the theory of reductive group schemes developed by M Demazure and A Grothendieck It also allows the authors to find a bridge between multiloop algebras and the work of F Bruhat and J Tits on reductive groups over complete local fields

Lie Algebras Graded by the Root Systems BC_n , BC_n , BC_n Bruce Normansell Allison, Georgia Benkart, Yun Gao, 2002 Introduction The $\mathfrak{g}$

module decomposition of a $\mathfrak{BC}_r$ graded Lie algebra $\mathfrak{g}$ excluding type $\mathfrak{D}_3$ Models for $\mathfrak{BC}_r$ graded Lie algebras $\mathfrak{g}$ excluding type $\mathfrak{D}_3$ The $\mathfrak{g}$ module decomposition of a $\mathfrak{BC}_r$ graded Lie algebra with grading subalgebra of type $\mathfrak{B}_2$ $\mathfrak{C}_2$ $\mathfrak{D}_2$ or $\mathfrak{D}_3$ Central extensions derivations and invariant forms Models of $\mathfrak{BC}_r$ graded Lie algebras with grading subalgebra of type $\mathfrak{B}_2$ $\mathfrak{C}_2$ $\mathfrak{D}_2$ or $\mathfrak{D}_3$ Appendix Peirce decompositions in structurable algebras References

On the Splitting of Invariant Manifolds in Multidimensional Near-Integrable Hamiltonian Systems Pierre Lochak, J.-P. Marco, D. Sauzin, 2003 Presents the problem of the splitting of invariant manifolds in multidimensional Hamiltonian systems stressing the canonical features of the problem This book offers introduction of a canonically invariant scheme for the computation of the splitting matrix

Yang-Mills Measure on Compact Surfaces Thierry Lévy, 2003 In this memoir we present a new construction and new properties of the Yang Mills measure in two dimensions This measure was first introduced for the needs of quantum field theory and can be described informally as a probability measure on the space of connections modulo gauge transformations on a principal bundle We consider the case of a bundle over a compact orientable surface Our construction is based on the discrete Yang Mills theory of which we give a full account We are able to take its continuum limit and to define a pathwise multiplicative process of random holonomy indexed by the class of piecewise embedded loops We study in detail the links between this process and a white noise and prove a result of asymptotic independence in the case of a semi simple structure group We also investigate global Markovian properties of the measure related to the surgery of surfaces

Connectivity Properties of Group Actions on Non-Positively Curved Spaces Robert Bieri, Ross Geoghegan, 2003 Generalizing the Bieri Neumann Strebel Renz Invariants this Memoir presents the foundations of a theory of not necessarily discrete actions ρ of a suitable group G by isometries on a proper CAT 0 space M The passage from groups G to group actions ρ implies the introduction of Sigma invariants $\Sigma_k \rho$ to replace the previous $\Sigma_k G$ introduced by those authors Their theory is now seen as a special case of what is studied here so that readers seeking a detailed treatment of their theory will find it included here as a special case We define and study controlled k connectedness CC_k of ρ both over M and over end points e in the boundary at infinity ∂M $\Sigma_k \rho$ is by definition the set of all e over which the action is $k+1$ connected A central theorem the Boundary Criterion says that $\Sigma_k \rho \subset \partial M$ if and only if ρ is CC_{k+1} over M An Openness Theorem says that CC_k over M is an open condition on the space of isometric actions ρ of G on M Another Openness Theorem says that $\Sigma_k \rho$ is an open subset of ∂M with respect to the Tits metric topology When ρ of G is a discrete group of isometries the property CC_{k+1} is equivalent to $\ker \rho$ having the topological finiteness property type F_k More generally if the orbits of the action are discrete CC_{k+1} is equivalent to the point stabilizers having type F_k In particular for $k=2$ we are characterizing finite presentability of kernels and stabilizers Examples discussed include locally rigid actions translation actions on vector spaces especially those by

metabelian groups **Exponentially Small Splitting of Invariant Manifolds of Parabolic Points , Configuration Spaces** Anders Björner,Fred Cohen,Corrado De Concini,Claudio Procesi,Mario Salvetti,2013-12-18 These proceedings contain the contributions of some of the participants in the intensive research period held at the De Giorgi Research Center in Pisa during the period May June 2010 The central theme of this research period was the study of configuration spaces from various points of view This topic originated from the intersection of several classical theories Braid groups and related topics configurations of vectors of great importance in Lie theory and representation theory arrangements of hyperplanes and of subspaces combinatorics singularity theory Recently however configuration spaces have acquired independent interest and indeed the contributions in this volume go far beyond the above subjects making it attractive to a large audience of mathematicians Descriptive Set Theory and Definable Forcing Jindřich Zapletal,2004 Focuses on the relationship between definable forcing and descriptive set theory the forcing serves as a tool for proving independence of inequalities between cardinal invariants of the continuum **The $RO(G)$ -Graded Equivariant Ordinary Homology of G -Cell Complexes with Even-Dimensional Cells for $G=\mathbb{Z}/p$, Noether-Lefschetz Problems for Degeneracy Loci** Jeroen Spandaw,2003 Studies the cohomology of degeneracy loci This title assumes that $E \otimes F$ is ample and globally generated and that ψ is a general homomorphism In order to study the cohomology of Z it considers the Grassmannian bundle $\pi: Y \rightarrow G \times F \rightarrow X$ of r dimensional linear subspaces of the fibre **Segre's Reflexivity and an Inductive Characterization of Hyperquadrics** Yasuyuki Kachi,Eiichi Sato,2002 Introduction The universal pseudo quotient for a family of subvarieties Normal bundles of quadrics in X Morphisms from quadrics to Grassmannians Pointwise uniform vector bundles on non singular quadrics Theory of extensions of families over Hilbert schemes Existence of algebraic quotient proof of Theorem 0.3 Appendix Deformations of vector bundles on infinitesimally rigid projective varieties with null global i forms References **The Role of the Spectrum in the Cyclic Behavior of Composition Operators** Eva A. Gallardo-Gutiérrez,Alfonso Montes-Rodríguez,2004 Introduction and preliminaries Linear fractional maps with an interior fixed point Non elliptic automorphisms The parabolic non automorphism Supercyclic linear fractional composition operators Endnotes Bibliography Elliptic Partial Differential Operators and Symplectic Algebra William Norrie Everitt,L. Markus (Lawrence),2003 This investigation introduces a new description and classification for the set of all self adjoint operators not just those defined by differential boundary conditions which are generated by a linear elliptic partial differential expression $A \sum_{j=0}^m a_j(x) \frac{\partial^j}{\partial x_j^2} u = f(x)$ for all x in Ω in a region Ω with compact closure $\overline{\Omega}$ and C^∞ smooth boundary $\partial\Omega$ in Euclidean space $\mathbb{R}^n$ The order $2m \geq 2$ and the spatial dimension $n \geq 2$ **Gromov-Hausdorff Distance for Quantum Metric Spaces/Matrix Algebras Converge to the Sphere for Quantum Gromov-Hausdorff Distance** Marc Aristide Rieffel,2004 By a quantum metric space we mean a C^* algebra or more generally an order unit space equipped with a

generalization of the usual Lipschitz seminorm on functions which one associates to an ordinary metric We develop for compact quantum metric spaces a version of Gromov Hausdorff distance

Collected Papers Armand Borel, 1983 This book collects the papers published by A Borel from 1983 to 1999 About half of them are research papers written on his own or in collaboration on various topics pertaining mainly to algebraic or Lie groups homogeneous spaces arithmetic groups L2 spectrum automorphic forms cohomology and covolumes L2 cohomology of symmetric or locally symmetric spaces and to the Oppenheim conjecture Other publications include surveys and personal recollections of D Montgomery Harish Chandra and A Weil considerations on mathematics in general and several articles of a historical nature on the School of Mathematics at the Institute for Advanced Study on N Bourbaki and on selected aspects of the works of H Weyl C Chevalley E Kolchin J Leray and A Weil The book concludes with an essay on H Poincaré and special relativity Some comments on and corrections to a number of papers have also been added

Vector Bundles and Representation Theory Steven Dale Cutkosky, 2003 This volume contains 13 papers from the conference on Hilbert Schemes Vector Bundles and Their Interplay with Representation Theory The papers are written by leading mathematicians in algebraic geometry and representation theory and present the latest developments in the field Among other contributions the volume includes several very impressive and elegant theorems in representation theory by R Friedman and J W Morgan convolution on homology groups of moduli spaces of sheaves on K3 surfaces by H Nakajima and computation of the S^1 fixed points in Quot schemes and mirror principle computations for Grassmannians by S T Yau et al The book is of interest to graduate students and researchers in algebraic geometry representation theory topology and their applications to high energy physics

[Derived \$\ell\$ -Adic Categories for Algebraic Stacks](#) Kai Behrend, 2003 This text is intended for graduate students and research mathematicians interested in algebraic geometry category theory and homological algebra

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