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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

**Yasuyuki Kachi, Eiichi Sato**



## **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

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  $\rho$  of a suitable group  $G$  by isometries on a proper CAT 0 space  $M$  The passage from groups  $G$  to group actions  $\rho$  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  $\rho$  both over  $M$  and over end points  $e$  in the boundary at infinity  $\partial_\infty M$   $\Sigma_k \rho$  is by definition the set of all  $e$  over which the action is  $k-1$  connected A central theorem the Boundary Criterion says that  $\Sigma_k \rho \subset \partial_\infty M$  if and only if  $\rho$  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  $\rho$  of  $G$  on  $M$  Another Openness Theorem says that  $\Sigma_k \rho$  is an open subset of  $\partial_\infty M$  with respect to the Tits metric topology When  $\rho$  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

Noether-Lefschetz Problems for Degeneracy Loci Jeroen Spandaw, 2003 Studies the cohomology of degeneracy loci This title assumes that  $E$  is a vector bundle of rank  $r$  on a variety  $X$  of dimension  $n$  and that  $\psi$  is a general homomorphism In order to study the cohomology of  $Z$  it considers the Grassmannian bundle  $\pi: \mathbb{G}(r, F) \rightarrow X$  of  $r$ -dimensional linear subspaces of the fibre

**Exponentially Small Splitting of Invariant Manifolds of Parabolic Points**, *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 forms References

**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 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

**The  $\mathbb{R}O(G)$ -Graded Equivariant Ordinary Homology of  $G$ -Cell Complexes with Even-Dimensional Cells for  $G = \mathbb{Z}/p$** , **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  $A \mathbf{x} \cdot D \sum_{0 \leq s \leq 2m} a_s \mathbf{x} \cdot D^s$  for all  $\mathbf{x}$  in  $\Omega$  in a region  $\Omega$  with compact closure  $\overline{\Omega}$  and  $C^\infty$  smooth boundary  $\partial\Omega$  in Euclidean space  $\mathbb{E}^n$   $n \geq 2$  The order  $2m \geq 2$  and the spatial dimension  $n \geq 2$

*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

**Mathematical Reviews**, 2003 **Algebraic & Geometric Topology**, 2007 *Advances in Theoretical and Mathematical Physics*, 2002 **Publications of the Research Institute for Mathematical Sciences**, 2001 *The Asian Journal of Mathematics*, 2004 **1983-1999** Armand Borel, 1983 **Doga. Türk matematik dergisi**, 2001 **American Book Publishing Record**, 2002 **Representation of Lie Groups and Special Functions: Classical and quantum groups and special functions** Naum I. Akhiezer, Vilenkin, Anatoliĭ Ul'ianovich Klimyk, 1991 **Reviews in Functional Analysis, 1980-86**, 1989

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