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Poisson Geometry, Deformation Quantisation and Group Representations

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Poisson Geometry Deformation Quantisation And Group Representations

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Poisson Geometry Deformation Quantisation And Group Representations:

Poisson Geometry, Deformation Quantisation and Group Representations Simone Gutt, John Rawnsley, Daniel Sternheimer, 2005-06-21 An accessible introduction to Poisson geometry suitable for graduate students *Representation Theory and Harmonic Analysis of Wreath Products of Finite Groups* Tullio Ceccherini-Silberstein, Fabio Scarabotti, Filippo Tolli, 2014-01-16 This book presents an introduction to the representation theory of wreath products of finite groups and harmonic analysis on the corresponding homogeneous spaces The reader will find a detailed description of the theory of induced representations and Clifford theory focusing on a general formulation of the little group method This provides essential tools for the determination of all irreducible representations of wreath products of finite groups The exposition also includes a detailed harmonic analysis of the finite lamplighter groups the hyperoctahedral groups and the wreath product of two symmetric groups This relies on the generalised Johnson scheme a new construction of finite Gelfand pairs The exposition is completely self contained and accessible to anyone with a basic knowledge of representation theory Plenty of worked examples and several exercises are provided making this volume an ideal textbook for graduate students It also represents a useful reference for more experienced researchers Hodge Theory, Complex Geometry, and Representation Theory Mark Green, Phillip Griffiths, Matt Kerr, 2013-11-05 This monograph presents topics in Hodge theory and representation theory two of the most active and important areas in contemporary mathematics The underlying theme is the use of complex geometry to understand the two subjects and their relationships to one another an approach that is complementary to what is in the literature Finite dimensional representation theory and complex geometry enter via the concept of Hodge representations and Hodge domains Infinite dimensional representation theory specifically the discrete series and their limits enters through the realization of these representations through complex geometry as pioneered by Schmid and in the subsequent description of automorphic cohomology For the latter topic of particular importance is the recent work of Carayol that potentially introduces a new perspective in arithmetic automorphic representation theory The present work gives a treatment of Carayol's work and some extensions of it set in a general complex geometric framework Additional subjects include a description of the relationship between limiting mixed Hodge structures and the boundary orbit structure of Hodge domains a general treatment of the correspondence spaces that are used to construct Penrose transforms and selected other topics from the recent literature A co publication of the AMS and CBMS **Geometric and Cohomological Methods in Group Theory** Martin R. Bridson, 2009-10-29 An extended tour through a selection of the most important trends in modern geometric group theory 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 *Groups St Andrews 2009 in Bath: Volume 1* C. M. Campbell, M. R. Quick, E. F. Robertson, C. M. Roney-Dougal, G. C. Smith, G. Traustason, 2011-06-16

Groups St Andrews 2009 was held in the University of Bath in August 2009 and this first volume of a two volume book contains selected papers from the international conference Five main lecture courses were given at the conference and articles based on their lectures form a substantial part of the proceedings This volume contains the contributions by Gerhard Hiss RWTH Aachen and Volodymyr Nekrashevych Texas A M Apart from the main speakers refereed survey and research articles were contributed by other conference participants Arranged in alphabetical order these articles cover a wide spectrum of modern group theory The regular proceedings of Groups St Andrews conferences have provided snapshots of the state of research in group theory throughout the past 30 years Earlier volumes have had a major impact on the development of group theory and it is anticipated that this volume will be equally important **Groups St Andrews 2013** C. M. Campbell, M. R. Quick, E. F. Robertson, C. M. Roney-Dougal, 2015-10-22

Leading researchers survey the latest developments in group theory and many related areas Spaces of Kleinian Groups Yair N. Minsky, Makoto Sakuma, Caroline Series, 2006-06-19 The subject of Kleinian groups and hyperbolic 3 manifolds is currently undergoing explosively fast development the last few years having seen the resolution of many longstanding conjectures This volume contains important expositions and original work by some of the main contributors on topics such as topology and geometry of 3 manifolds curve complexes classical Ahlfors Bers theory computer explorations and projective structures Researchers in these and related areas will find much of interest here **Mathematical Reviews** ,2007 Compositio Mathematica ,2008 Encyclopedia of Mathematical Physics Jean-Pierre Francoise, Gregory L. Naber, Tsou Sheung Tsun, 2006-06-20

The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating

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Book Publishing Record, 2005 The British National Bibliography Arthur James Wells, 2005 *Poisson Geometry in Mathematics and Physics* Giuseppe Dito, 2008 This volume is a collection of articles by speakers at the Poisson 2006 conference The program for Poisson 2006 was an overlap of topics that included deformation quantization generalized complex structures differentiable stacks normal forms and group valued moment maps and reduction **Journal of the Indian Institute of Science** Indian Institute of Science, Bangalore, 2001 **Book Review Index**, 2006 Every 3rd issue is a quarterly cumulation Proceedings of the Second International Winter School on Mathematical Methods in Physics M. C.

B. Abdalla, 2003 **Poisson Structures** Camille Laurent-Gengoux, Anne Pichereau, Pol Vanhaecke, 2012-08-27 Poisson structures appear in a large variety of contexts ranging from string theory classical quantum mechanics and differential geometry to abstract algebra algebraic geometry and representation theory In each one of these contexts it turns out that the Poisson structure is not a theoretical artifact but a key element which unsolicited comes along with the problem that is investigated and its delicate properties are decisive for the solution to the problem in nearly all cases Poisson Structures is the first book that offers a comprehensive introduction to the theory as well as an overview of the different aspects of Poisson structures The first part covers solid foundations the central part consists of a detailed exposition of the different known

types of Poisson structures and of the usually mathematical contexts in which they appear and the final part is devoted to the two main applications of Poisson structures integrable systems and deformation quantization The clear structure of the book makes it adequate for readers who come across Poisson structures in their research or for graduate students or advanced researchers who are interested in an introduction to the many facets and applications of Poisson structures

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