

Mathematical
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Cluster Algebras and Poisson Geometry

Michael Gekhtman
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American Mathematical Society

Quantum Algebras Poisson Geometry In M

**Decio Levi, Raphaël Rebelo, Pavel
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Quantum Algebras and Poisson Geometry in Mathematical Physics Mikhail Vladimirovich Karasev, Elena M. Novikova, Yuri Mikhailovich Vorobjev, 2005 This collection presents new and interesting applications of Poisson geometry to some fundamental well known problems in mathematical physics In addition to advanced Poisson geometry the methods used by the authors include unexpected algebras with non Lie commutation relations nontrivial quantum Kahlerian structures of hypergeometric type dynamical systems theory semiclassical asymptotics and more The volume is suitable for graduate students and researchers interested in mathematical physics Other AMS publications by M Karasev include Nonlinear Poisson Brackets Geometry and Quantization Coherent Transform Quantization and Poisson Geometry and Asymptotic Methods for Wave and Quantum Problems Coherent Transform, Quantization and Poisson Geometry Mikhail Vladimirovich Karasev, 1998 Three papers continue and substantially develop the authors previous results about nonlinear Poisson brackets Hamilton dynamics and quantization essentially summarizing some new ideas and approaches suggested during a research seminar over the previous five years at the Moscow Institute of Electronics and Mathematics The papers are Non Lie permutation representations coherent states and quantum embedding Adapted connections Hamilton dynamics geometric phases and quantization over isotropic submanifolds and Infinitesimal Poisson cohomology No index Annotation copyrighted by Book News Inc Portland OR **Quantum Algebras and Poisson Geometry in Mathematical Physics**

Mikhail Vladimirovich Karasev, 2005 This collection presents new and interesting applications of Poisson geometry to some fundamental well known problems in mathematical physics The methods used by the authors include in addition to advanced Poisson geometry unexpected algebras with non Lie commutation relations nontrivial quantum K hlerian structures of hypergeometric type dynamical systems theory semiclassical asymptotics etc **Advances in Poisson Geometry** Mario Garcia-Fernandez, David Iglesias Ponte, Eva Miranda, Cédric Oms, Roberto Rubio, 2025-08-24 This book presents recent advances in topics related to Poisson geometry originating from lectures given at the Poisson School held in 2022 at the CRM in Barcelona The purpose is to give both an introduction to this active field of research as well as highlight new trends in related topics The texts cover both classical results known to experts in the field as well as recent and previously unpublished mathematical results Graduate students and early stage researchers with basic knowledge in differential and symplectic geometry together with established researchers that are keen to dive into this rapidly growing field of research will find this book a useful resource **Nonlinear Equations and Spectral Theory** M. S. Birman, Nina Nikolaevna Uraltseva, 2007

Symmetries and Integrability of Difference Equations Decio Levi, Raphaël Rebelo, Pavel Winternitz, 2017-06-30 This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference equations Difference equations are playing an increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and thus naturally described by difference equations More fundamentally in

subatomic physics space time may actually be discrete Differential equations would then just be approximations of more basic discrete ones Moreover when using differential equations to analyze continuous processes it is often necessary to resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference ones Each of the nine peer reviewed chapters in this volume serves as a self contained treatment of a topic containing introductory material as well as the latest research results and exercises Each chapter is presented by one or more early career researchers in the specific field of their expertise and in turn written for early career researchers As a survey of the current state of the art this book will serve as a valuable reference and is particularly well suited as an introduction to the field of symmetries and integrability of difference equations Therefore the book will be welcomed by advanced undergraduate and graduate students as well as by more advanced researchers

Geometry, Topology, and Mathematical Physics V. M. Buchstaber, I. M. Krichever, 2008-01-01 This volume contains a selection of papers based on presentations given in 2006 2007 at the S P Novikov Seminar at the Steklov Mathematical Institute in Moscow Novikov s diverse interests are reflected in the topics presented in the book The articles address topics in geometry topology and mathematical physics The volume is suitable for graduate students and researchers interested in the corresponding areas of mathematics and physics

Moscow Seminar on Mathematical Physics, II Yu. A. Neretin, M. A. Olshanetsky, A. Rosly, 2008 The Institute for Theoretical and Experimental Physics ITEP is internationally recognized for achievements in various branches of theoretical physics For many years the seminars at ITEP have been among the main centers of scientific life in Moscow This volume is a collection of articles by participants of the seminar on mathematical physics that has been held at ITEP since 1983 This is the second such collection the first was published in the same series AMS Translations Series 2 vol 191 The papers in the volume are devoted to several mathematical topics that strongly influenced modern theoretical physics Among these topics are cohomology and representations of infinite Lie algebras and superalgebras Hitchin and Knizhnik Zamolodchikov Bernard systems and the theory of D modules The book is intended for graduate students and research mathematicians working in algebraic geometry representation theory and mathematical physics

Topology, Geometry, Integrable Systems, and Mathematical Physics V. M. Buchstaber, B. A. Dubrovin, I. M. Krichever, 2014-11-18 Articles in this collection are devoted to modern problems of topology geometry mathematical physics and integrable systems and they are based on talks given at the famous Novikov s seminar at the Steklov Institute of Mathematics in Moscow in 2012 2014 The articles cover many aspects of seemingly unrelated areas of modern mathematics and mathematical physics they reflect the main scientific interests of the organizer of the seminar Sergey Petrovich Novikov The volume is suitable for graduate students and researchers interested in the corresponding areas of mathematics and physics

Spectral Theory and Differential Equations E. Khruslov, L. Pastur, D. Shepelsky, 2014-09-26 This volume is dedicated to V A Marchenko on the occasion of his 90th birthday It contains refereed original papers and survey articles written by his colleagues and former

students of international stature and focuses on the areas to which he made important contributions spectral theory of differential and difference operators and related topics of mathematical physics including inverse problems of spectral theory homogenization theory and the theory of integrable systems The papers in the volume provide a comprehensive account of many of the most significant recent developments in that broad spectrum of areas

General Theory of Lie Groupoids and Lie Algebroids Kirill C. H. Mackenzie, 2005-06-09 This is a comprehensive modern account of the theory of Lie groupoids and Lie algebroids and their importance in differential geometry in particular their relations with Poisson geometry and general connection theory It covers much work done since the mid 1980s including the first treatment in book form of Poisson groupoids Lie bialgebroids and double vector bundles As such this book will be of great interest to all those working in or wishing to learn the modern theory of Lie groupoids and Lie algebroids

Proceedings of the St. Petersburg Mathematical Society, Volume XIV Sankt-Peterburgskoe matematicheskoe obshchestvo, 2009 Contains articles on analysis probability partial differential operators frames and other areas of mathematics This volume also contains a comprehensive article about the classification of pseudo regular convex polyhedra It is suitable for a broad group of graduate students and researchers interested in the topics presented here

Bulletin (new Series) of the American Mathematical Society, 2003

Linear and Complex Analysis Alexei Alexandrov, Anton Baranov, Sergey Kislyakov, New Trends in Noncommutative Algebra Ara, Pere, 2012 This volume contains the proceedings of the conference New Trends in Noncommutative Algebra held at the University of Washington Seattle in August 2010 The articles will provide researchers and graduate students with an indispensable overview of topics of current interest Specific fields covered include noncommutative algebraic geometry representation theory Calabi Yau algebras quantum algebras and deformation quantization Poisson algebras group algebras and noncommutative Iwasawa algebras

Operator Theory and Its Applications Michael Levitin, Dmitrii G. Vassiliev, 2010 Devoted to the theory of linear operators in Hilbert spaces and its applications the subjects covered in this book range from the abstract theory of Toeplitz operators to the analysis of very specific differential operators arising in quantum mechanics electromagnetism and the theory of elasticity

Geometric Models for Noncommutative Algebras Ana Cannas da Silva, Alan Weinstein, 1999 The volume is based on a course Geometric Models for Noncommutative Algebras taught by Professor Weinstein at Berkeley Noncommutative geometry is the study of noncommutative algebras as if they were algebras of functions on spaces for example the commutative algebras associated to affine algebraic varieties differentiable manifolds topological spaces and measure spaces In this work the authors discuss several types of geometric objects in the usual sense of sets with structure that are closely related to noncommutative algebras Central to the discussion are symplectic and Poisson manifolds which arise when noncommutative algebras are obtained by deforming commutative algebras The authors also give a detailed study of groupoids whose role in noncommutative geometry has been stressed by Connes as well as of Lie algebroids the infinitesimal approximations to

differentiable groupoids Featured are many interesting examples applications and exercises The book starts with basic definitions and builds to still open questions It is suitable for use as a graduate text An extensive bibliography and index are included *Poisson Geometry* Janusz Grabowski, Pawel Urbanski, 2000 [Geometric Approximation Algorithms](#) Ariel Har-Peled, 2011 Exact algorithms for dealing with geometric objects are complicated hard to implement in practice and slow Over the last 20 years a theory of geometric approximation algorithms has emerged These algorithms tend to be simple fast and more robust than their exact counterparts This book is the first to cover geometric approximation algorithms in detail In addition more traditional computational geometry techniques that are widely used in developing such algorithms like sampling linear programming etc are also surveyed Other topics covered include approximate nearest neighbor search shape approximation coresets dimension reduction and embeddings The topics covered are relatively independent and are supplemented by exercises Close to 200 color figures are included in the text to illustrate proofs and ideas

Developments and Retrospectives in Lie Theory Geoffrey Mason, Ivan Penkov, Joseph A. Wolf, 2014-11-12 The Lie Theory Workshop founded by Joe Wolf UC Berkeley has been running for over two decades At the beginning the top universities in California and Utah hosted the meetings which continue to run on a quarterly basis Experts in representation theory Lie theory from various parts of the US Europe Asia China Japan Singapore Russia Canada and South and Central America were routinely invited to give talks at these meetings Nowadays the workshops are also hosted at universities in Louisiana Virginia and Oklahoma These Lie theory workshops have been sponsored by the NSF noting the talks have been seminal in describing new perspectives in the field covering broad areas of current research The contributors have all participated in these Lie theory workshops and include in this volume expository articles which will cover representation theory from the algebraic geometric analytic and topological perspectives with also important connections to math physics These survey articles review and update the prominent seminal series of workshops in representation Lie theory mentioned above and reflects the widespread influence of those workshops in such areas as harmonic analysis representation theory differential geometry algebraic geometry number theory and mathematical physics Many of the contributors have had prominent roles in both the classical and modern developments of Lie theory and its applications

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