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Coherent Transform, Quantization, and Poisson Geometry

M. V. Karasëv
Editor



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Coherent Transform Quantization And Poisson Geometry

Mark Steyvers



Coherent Transform Quantization And Poisson Geometry:

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

Coherent Transform, Quantization, and Poisson Geometry E. Novikova, 1998 This volume contains three extensive articles written by Karasev and his pupils Topics covered include the following coherent states and irreducible representations for algebras with non Lie permutation relations Hamilton dynamics and quantization over stable isotropic submanifolds and infinitesimal tensor complexes over degenerate symplectic leaves in Poisson manifolds The articles contain many examples including from physics and complete proofs

Asymptotic Methods for Wave and Quantum Problems M. V. Karasev, 2003 The collection consists of four papers in different areas of mathematical physics united by the intrinsic coherence of the asymptotic methods used The papers describe both the known results and most recent achievements as well as new concepts and ideas in mathematical analysis of quantum and wave problems In the introductory paper Quantization and Intrinsic Dynamics a relationship between quantization of symplectic manifolds and nonlinear wave equations is described and discussed from the viewpoint of the weak asymptotics method asymptotics in distributions and the semiclassical approximation method It also explains a hidden dynamic geometry that arises when using these methods Three other papers discuss applications of asymptotic methods to the construction of wave type solutions of nonlinear PDE s to the theory of semiclassical approximation in particular the Whitham method for nonlinear second order ordinary differential equations and to the study of the Schrodinger type equations whose potential wells are sufficiently shallow that the discrete spectrum contains precisely one point All the papers contain detailed references and are oriented not only to specialists in asymptotic methods but also to a wider audience of researchers and graduate students working in partial differential equations and mathematical physics

Commuting Elements in Q-deformed Heisenberg Algebras Lars Hellström, Sergei D. Silvestrov, 2000 Noncommutative algebras rings and other noncommutative objects along with their more classical commutative counterparts have become a key part of modern mathematics physics and many other fields The q deformed Heisenberg algebras defined by deformed Heisenberg canonical commutation relations of quantum mechanics play a distinguished role as important objects in pure mathematics and in many applications in physics The structure of commuting elements in an algebra is of fundamental importance for its structure and representation theory as well as for its applications The main objects studied in this monograph are q deformed Heisenberg algebras more specifically commuting elements in q

deformed Heisenberg algebras In this book the structure of commuting elements in q deformed Heisenberg algebras is studied in a systematic way Many new results are presented with complete proofs Several appendices with some general theory used in other parts of the book include material on the Diamond lemma for ring theory a theory of degree functions in arbitrary associative algebras and some basic facts about q combinatorial functions over an arbitrary field The bibliography contains in addition to references on q deformed Heisenberg algebras some selected references on related subjects and on existing and potential applications The book is self contained as far as proofs and the background material are concerned In addition to research and reference purposes it can be used in a special course or a series of lectures on the subject or as complementary material to a general course on algebra Specialists as well as doctoral and advanced undergraduate students in mathematics and physics will find this book useful in their research and study

Nonlinear Equations and Spectral Theory M. S. Birman, Nina Nikolaevna Uraltseva, 2007

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

Proceedings of the St. Petersburg Mathematical Society Volume IV Ol'ga Aleksandrovna Ladyzhenskaia, 1999 This volume is devoted to analysis probability and applications It includes useful surveys by Pastur on random operators and their applications Feldman on harmonic analysis and analogues of Levi Khinchin formulas on abelian groups and Kerov on application of representation theory of symmetric groups to classical analysis Also featured are products of random operators convolution of abelian groups orthogonal polynomials and semiordeed Banach spaces

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 *Selected Papers on Differential Equations and Analysis*, 2005 Contains translations of papers that originally appeared in the Japanese journal Sugaku This book covers a variety of topics including differential equations with free boundary singular integral operators and operator algebras It is suitable for graduate students and research mathematicians interested in analysis and differential equations **Quantum Algebras and Poisson Geometry in Mathematical Physics** Mikhail Vladimirovich Karasev, Elena M. Novikova, Yurii 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 **Operator Theory and Its Applications** Michael Levitin, Dmitrii G. Vassiliev, 2010 This book is a collection of articles devoted to the theory of linear operators in Hilbert spaces and its applications The subjects covered 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 the stability of numerical methods is also discussed Many of the articles deal with spectral problems for not necessarily selfadjoint operators Some of the articles are surveys outlining the current state of the subject and presenting open problems This book is a collection of articles devoted to the theory of linear operators in Hilbert spaces and its applications The subjects covered 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 the stability of numerical methods is also discussed Many of the articles deal with spectral problems for not necessarily selfadjoint operators Some of the articles are surveys outlining the current state of the subject and presenting open problems **Russian Journal of Mathematical Physics**, 2006 **Mathematical Reviews**, 2004 *Advanced Studies in Contemporary Mathematics*, 2005 *Theoretical and Mathematical Physics*, 2005 Catalogue American Mathematical Society, 2000 **Book Review Index**, 2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index **Teoreticheskaia i matematicheskaia fizika**, 2005 **Physica**, 1998 **Physics Briefs**, 1993

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