

André Unterberger

Quantization and Non-holomorphic Modular Forms

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Quantization And Nonholomorphic Modular Forms

Michael Wilson



Quantization And Nonholomorphic Modular Forms:

Quantization and Non-Holomorphic Modular Forms André Unterberger, 2014-01-15 **Automorphic Pseudodifferential Analysis and Higher Level Weyl Calculi** André Unterberger, 2012-12-06 Award winning monograph of the Ferran Sunyer i Balaguer Prize 2002 The subject of this book is the study of automorphic distributions by which is meant distributions on \mathbb{R}^2 invariant under the linear action of $SL(2, \mathbb{Z})$ and of the operators associated with such distributions under the Weyl rule of symbolic calculus Researchers and postgraduates interested in pseudodifferential analysis the theory of non holomorphic modular forms and symbolic calculi will benefit from the clear exposition and new results and insights

A Concise Course on Stochastic Partial Differential Equations Claudia Prévôt, Michael Röckner, 2007-05-26 These lectures concentrate on nonlinear stochastic partial differential equations SPDE of evolutionary type There are three approaches to analyze SPDE the martingale measure approach the mild solution approach and the variational approach The purpose of these notes is to give a concise and as self contained as possible an introduction to the variational approach A large part of necessary background material is included in appendices

Almost Ring Theory Ofer Gabber, 2003 Adiabatic Perturbation Theory in Quantum Dynamics Stefan Teufel, 2003 **Geometric Curve Evolution and Image Processing** Frédéric Cao, 2003-02-27 In image processing motions by curvature provide an efficient way to smooth curves representing the boundaries of objects In such a motion each point of the curve moves at any instant with a normal velocity equal to a function of the curvature at this point This book is a rigorous and self contained exposition of the techniques of motion by curvature The approach is axiomatic and formulated in terms of geometric invariance with respect to the position of the observer This is translated into mathematical terms and the author develops the approach of Olver Sapiro and Tannenbaum which classifies all curve evolution equations He then draws a complete parallel with another axiomatic approach using level set methods this leads to generalized curvature motions Finally novel and very accurate numerical schemes are proposed allowing one to compute the solution of highly degenerate evolution equations in a completely invariant way The convergence of this scheme is also proved

Derived Functors in Functional Analysis Jochen Wengenroth, 2003-01-01 The text contains for the first time in book form the state of the art of homological methods in functional analysis like characterizations of the vanishing of the derived projective limit functor or the functors $\text{Ext}^1 E F$ for Fréchet and more general spaces The researcher in real and complex analysis finds powerful tools to solve surjectivity problems e.g. on spaces of distributions or to characterize the existence of solution operators The requirements from homological algebra are minimized all one needs is summarized on a few pages The answers to several questions of V.P. Palamodov who invented homological methods in analysis also show the limits of the program

Weighted Littlewood-Paley Theory and Exponential-Square Integrability Michael Wilson, 2008 Littlewood Paley theory is an essential tool of Fourier analysis with applications and connections to PDEs signal processing and probability It extends some of the benefits of orthogonality to

situations where orthogonality doesn't really make sense. It does so by letting us control certain oscillatory infinite series of functions in terms of infinite series of non-negative functions. Beginning in the 1980s it was discovered that this control could be made much sharper than was previously suspected. The present book tries to give a gentle well-motivated introduction to those discoveries, the methods behind them, their consequences, and some of their applications.

The Global Theory of Minimal Surfaces in Flat Spaces William Meeks, A. Ros, H. Rosenberg, 2002-03-25 In the second half of the twentieth century the global theory of minimal surface in flat space had an unexpected and rapid blossoming. Some of the classical problems were solved and new classes of minimal surfaces found. Minimal surfaces are now studied from several different viewpoints using methods and techniques from analysis, real and complex topology and geometry. In this lecture course Meeks, Ros, and Rosenberg, three of the main architects of the modern edifice, present some of the more recent methods and developments of the theory. The topics include moduli, asymptotic geometry, and surfaces of constant mean curvature in the hyperbolic space.

Entropy Methods for the Boltzmann Equation, 2007 [Combinatorial Stochastic Processes](#) Jim Pitman, 2006-05-11 The purpose of this text is to bring graduate students specializing in probability theory to current research topics at the interface of combinatorics and stochastic processes. There is particular focus on the theory of random combinatorial structures such as partitions, permutations, trees, forests, and mappings, and connections between the asymptotic theory of enumeration of such structures and the theory of stochastic processes like Brownian motion and Poisson processes.

Introduction to Symplectic Dirac Operators Katharina Habermann, Lutz Habermann, 2006-10-28 This volume is the first one that gives a systematic and self-contained introduction to the theory of symplectic Dirac operators and reflects the current state of the subject. At the same time it is intended to establish the idea that symplectic spin geometry and symplectic Dirac operators may give valuable tools in symplectic geometry and symplectic topology, which have become important fields and very active areas of mathematical research.

[Pseudodifferential Methods in Number Theory](#) André Unterberger, 2018-07-16 Classically developed as a tool for partial differential equations, the analysis of operators known as pseudodifferential analysis is here regarded as a possible help in questions of arithmetic. The operators which make up the main subject of the book can be characterized in terms of congruence arithmetic. They enjoy a Eulerian structure and are applied to the search for new conditions equivalent to the Riemann hypothesis. These consist in the validity of certain parameter-dependent estimates for a class of Hermitian forms of finite rank. The Littlewood criterion involving sums of M-bius coefficients and the Weil so-called explicit formula, which leads to his positivity criterion, fit within this scheme using in the first case Weyl's pseudodifferential calculus, in the second case Fuchs. The book should be of interest to people looking for new possible approaches to the Riemann hypothesis, also to new perspectives on pseudodifferential analysis and on the way it combines with modular form theory. Analysts will have no difficulty with the arithmetic aspects, with which, save for very few exceptions, no previous acquaintance is necessary.

Stochastic Calculus for Fractional Brownian Motion and Related

Processes S. Mishura, 2008-01-02 This volume examines the theory of fractional Brownian motion and other long memory processes Interesting topics for PhD students and specialists in probability theory stochastic analysis and financial mathematics demonstrate the modern level of this field It proves that the market with stock guided by the mixed model is arbitrage free without any restriction on the dependence of the components and deduces different forms of the Black Scholes equation for fractional market

Local Newforms for $\mathrm{GSp}(4)$ Brooks Roberts, Ralf Schmidt, 2007-07-18 Local Newforms for $\mathrm{GSp}(4)$ describes a theory of new and oldforms for representations of $\mathrm{GSp}(4)$ over a non archimedean local field This theory considers vectors fixed by the paramodular groups and singles out certain vectors that encode canonical information such as L factors and epsilon factors through their Hecke and Atkin Lehner eigenvalues An appendix includes extensive tables about the results and the representations theory of $\mathrm{GSp}(4)$

Osserman Manifolds in Semi-Riemannian Geometry Eduardo Garcia-Rio, Demir N. Kupeli, Ramon Vazquez-Lorenzo, 2002-02-25 The subject of this book is Osserman semi Riemannian manifolds and in particular the Osserman conjecture in semi Riemannian geometry The treatment is pitched at the intermediate graduate level and requires some intermediate knowledge of differential geometry The notation is mostly coordinate free and the terminology is that of modern differential geometry Known results toward the complete proof of Riemannian Osserman conjecture are given and the Osserman conjecture in Lorentzian geometry is proved completely Counterexamples to the Osserman conjecture in generic semi Riemannian signature are provided and properties of semi Riemannian Osserman manifolds are investigated

Characters and Cyclotomic Fields in Finite Geometry Bernhard Schmidt, 2004-10-13 This monograph contributes to the existence theory of difference sets cyclic irreducible codes and similar objects The new method of field descent for cyclotomic integers of prescribed absolute value is developed Applications include the first substantial progress towards the Circulant Hadamard Matrix Conjecture and Ryser's conjecture since decades It is shown that there is no Barker sequence of length l with $13 \leq l \leq 10^6$

Stability Estimates for Hybrid Coupled Domain Decomposition Methods Olaf Steinbach, 2003-03-10 Domain decomposition methods are a well established tool for an efficient numerical solution of partial differential equations in particular for the coupling of different model equations and of different discretization methods Based on the approximate solution of local boundary value problems either by finite or boundary element methods the global problem is reduced to an operator equation on the skeleton of the domain decomposition Different variational formulations then lead to hybrid domain decomposition methods

Geometric Mechanics Waldyr M. Oliva, 2002-10-23 Geometric Mechanics here means mechanics on a pseudo riemannian manifold and the main goal is the study of some mechanical models and concepts with emphasis on the intrinsic and geometric aspects arising in classical problems The first seven chapters are written in the spirit of Newtonian Mechanics while the last two ones as well as two of the four appendices describe the foundations and some aspects of Special and General Relativity All the material has a coordinate free presentation but for the sake of motivation many examples and exercises are included in

order to exhibit the desirable flavor of physical applications *Supersymmetric Field Theories* Sergio Cecotti, 2015-01-08

Adopting an elegant geometrical approach this advanced pedagogical text describes deep and intuitive methods for understanding the subtle logic of supersymmetry while avoiding lengthy computations The book describes how complex results and formulae obtained using other approaches can be significantly simplified when translated to a geometric setting Introductory chapters describe geometric structures in field theory in the general case while detailed later chapters address specific structures such as parallel tensor fields G structures and isometry groups The relationship between structures in supergravity and periodic maps of algebraic manifolds Kodaira Spencer theory modularity and the arithmetic properties of supergravity are also addressed Relevant geometric concepts are introduced and described in detail providing a self contained toolkit of useful techniques formulae and constructions Covering all the material necessary for the application of supersymmetric field theories to fundamental physical questions this is an outstanding resource for graduate students and researchers in theoretical physics

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