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Masaki Kashiwara (Ed.) et al.

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Michael Brown



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Differential Equations on Complex Manifolds Boris Sternin, Victor Shatalov, 2013-03-09 The present monograph is devoted to the complex theory of differential equations Not yet a handbook neither a simple collection of articles the book is a first attempt to present a more or less detailed exposition of a young but promising branch of mathematics that is the complex theory of partial differential equations Let us try to describe the framework of this theory First simple examples show that solutions of differential equations are as a rule ramifying analytic functions and hence are not regular near points of their ramification Second bearing in mind these important properties of solutions we shall try to describe the method solving our problem Surely one has first to consider differential equations with constant coefficients The apparatus solving such problems is well known in the real theory of differential equations this is the Fourier transformation Unfortunately such a transformation had not yet been constructed for complex analytic functions and the authors had to construct by themselves This transformation is of course the key notion of the whole theory

The Langlands Classification and Irreducible Characters for Real Reductive Groups J. Adams, D. Barbasch, D.A. Vogan, 2012-12-06 This monograph explores the geometry of the local Langlands conjecture The conjecture predicts a parametrizations of the irreducible representations of a reductive algebraic group over a local field in terms of the complex dual group and the Weil Deligne group For p adic fields this conjecture has not been proved but it has been refined to a detailed collection of conjectural relationships between p adic representation theory and geometry on the space of p adic

representation theory and geometry on the space of p adic Langlands parameters This book provides an introduction to some modern geometric methods in representation theory It is addressed to graduate students and research workers in representation theory and in automorphic forms *Analysis of Dirac Systems and Computational Algebra* Fabrizio Colombo, Irene Sabadini, Franciscus Sommen, Daniele C. Struppa, 2012-12-06 The main treatment is devoted to the analysis of systems of linear partial differential equations PDEs with constant coefficients focusing attention on null solutions of Dirac systems All the necessary classical material is initially presented Geared toward graduate students and researchers in hyper complex analysis Clifford analysis systems of PDEs with constant coefficients and mathematical physics **The Mathematics of Superoscillations** Yakir Aharonov, Fabrizio Colombo, Irene Sabadini, Daniele C. Struppa, Jeff Tollaksen, 2017-04-25 In the past 50 years quantum physicists have discovered and experimentally demonstrated a phenomenon which they termed superoscillations Aharonov and his collaborators showed that superoscillations naturally arise when dealing with weak values a notion that provides a fundamentally different way to regard measurements in quantum physics From a mathematical point of view superoscillating functions are a superposition of small Fourier components with a bounded Fourier spectrum which result when appropriately summed in a shift that can be arbitrarily large and well outside the spectrum The purpose of this work is twofold on one hand the authors provide a self contained survey of the existing literature in order to offer a systematic mathematical approach to superoscillations on the other hand they obtain some new and unexpected results by showing that superoscillating sequences can be seen of as solutions to a large class of convolution equations and can therefore be treated within the theory of analytically uniform spaces In particular the authors will also discuss the persistence of the superoscillatory behavior when superoscillating sequences are taken as initial values of the Schrödinger equation and other equations **Discriminants, Resultants, and Multidimensional Determinants** Israel M. Gelfand, Mikhail Kapranov, Andrei Zelevinsky, 2009-05-21 This book revives and vastly expands the classical theory of resultants and discriminants Most of the main new results of the book have been published earlier in more than a dozen joint papers of the authors The book nicely complements these original papers with many examples illustrating both old and new results of the theory *Mathematical Reviews* *Basic Modern Theory of Linear Complex Analytic q -Difference Equations* Jacques Sauloy, 2024-11-06 The roots of the modern theories of differential and q difference equations go back in part to an article by George D Birkhoff published in 1913 dealing with the three sister theories of differential difference and q difference equations This book is about q difference equations and focuses on techniques inspired by differential equations in line with Birkhoff's work as revived over the last three decades It follows the approach of the Ramis school mixing algebraic and analytic methods While it uses some q calculus and is illustrated by q special functions these are not its main subjects After a gentle historical introduction with emphasis on mathematics and a thorough study of basic problems such as elementary q functions elementary q calculus and low order equations a detailed

algebraic and analytic study of scalar equations is followed by the usual process of transforming them into systems and back again. The structural algebraic and analytic properties of systems are then described using q difference modules. Newton polygon filtration by the slopes. The final chapters deal with Fuchsian and irregular equations and systems including their resolution, classification, Riemann-Hilbert correspondence, and Galois theory. Nine appendices complete the book and aim to help the reader by providing some fundamental yet not universally taught facts. There are 535 exercises of various styles and levels of difficulty. The main prerequisites are general algebra and analysis as taught in the first three years of university. The book will be of interest to expert and non-expert researchers as well as graduate students in mathematics and physics.

First European Congress of Mathematics Anthony Joseph, Fulbert Mignot, Francois Murat, Bernard Prum, Rudolf Rentschler, 2012-12-06 Table of contents Plenary Lectures V I Arnold The Vassiliev Theory of Discriminants and Knots L Babai Transparent Proofs and Limits to Approximation C De Concini Poisson Algebraic Groups and Representations of Quantum Groups at Roots of 1 S K Donaldson Gauge Theory and Four Manifold Topology W Miller Spectral Theory and Geometry D Mumford Pattern Theory A Unifying Perspective A S Sznitman Brownian Motion and Obstacles M Vergne Geometric Quantization and Equivariant Cohomology Parallel Lectures Z Adamowicz The Power of Exponentiation in Arithmetic A Bjrner Subspace Arrangements B Bojanov Optimal Recovery of Functions and Integrals J M Bony Existence globale et diffusion pour les modles discrets R E Borcherds Sporadic Groups and String Theory J Bourgain A Harmonic Analysis Approach to Problems in Nonlinear Partial Differential Equations F Catanese Some Old and New Results on Algebraic Surfaces Ch Deninger Evidence for a Cohomological Approach to Analytic Number Theory S Dostoglou and D A Salamon Cauchy Riemann Operators Self Duality and the Spectral Flow

D-Modules, Perverse Sheaves, and Representation Theory Kiyoshi Takeuchi, Ryoshi Hotta, Toshiyuki Tanisaki, 2007-10-12 D modules continues to be an active area of stimulating research in such mathematical areas as algebraic analysis, differential equations, and representation theory. Key to D modules, Perverse Sheaves and Representation Theory is the authors essential algebraic analytic approach to the theory which connects D modules to representation theory and other areas of mathematics. To further aid the reader and to make the work as self contained as possible, appendices are provided as background for the theory of derived categories and algebraic varieties. The book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry, representation theory.

Mathematical Reviews, 2003 **Bulletin of the Belgian Mathematical Society, Simon Stevin**, 1995 *Journal of Mathematical Sciences, the University of Tokyo*, 2003 *The Bulletin of Mathematics Books*, 1992 □□□□□□, 1997 **Notes** Canadian Mathematical Society, 1990 Proceedings of the Japan Academy Nihon Gakushiiin, 2005 Reviews in Number Theory, 1984-96, 1997. These six volumes include approximately 20 000 reviews of items in number theory that appeared in *Mathematical Reviews* between 1984 and 1996. This is the third such set of volumes in number theory. The first was edited by W J LeVeque and included reviews from 1940-1972; the second was

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