Anthony Iarrobino
Vassil Kanev

Power Sums, Gorenstein Algebras, and Determinantal Loci

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research in commutative algebra and its applications to algebraic geometry Aimed at researchers and graduate students with an advanced background in algebra these lectures were given during the Commutative Algebra program held at the Vietnam Institute of Advanced Study in Mathematics in the winter semester 2013 2014 The first lecture is on Weyl algebras certain rings of differential operators and their D modules relating non commutative and commutative algebra to algebraic geometry and analysis in a very appealing way The second lecture concerns local systems their homological origin and applications to the classification of Artinian Gorenstein rings and the computation of their invariants The third lecture is on the representation type of projective varieties and the classification of arithmetically Cohen Macaulay bundles and Ulrich bundles Related topics such as moduli spaces of sheaves liaison theory minimal resolutions and Hilbert schemes of points are also covered The last lecture addresses a classical problem how many equations are needed to define an algebraic variety set theoretically It systematically covers and improves recent results for the case of toric varieties <u>Seminaire de Probabilites XXXV</u> J. Azema,M. Emery,M. Ledoux,M. Yor,2001-04-10 Researchers and graduate students in the theory of stochastic processes will find in this 35th volume some thirty articles on martingale theory martingales and finance analytical inequalities and semigroups stochastic differential equations functionals of Brownian motion and of L vy processes Ledoux s article contains a self contained introduction to the use of semigroups in spectral gaps and logarithmic Sobolev inequalities the contribution by Emery and Schachermayer includes an exposition for probabilists of Vershik s theory of backward discrete filtrations *Consistency Problems for Heath-Jarrow-Morton Interest Rate Models* Damir Filipovic,2004-11-02 Bond markets differ in one fundamental aspect from standard stock markets While the latter are built up to a finite number of trade assets the underlying basis of a bond market is the entire term structure of interest rates an infinite dimensional variable which is not directly observable On the empirical side this necessitates curve fitting methods for the daily estimation of the term structure Pricing models on the other hand are usually built upon stochastic factors representing the term structure in a finite dimensional state space Written for readers with knowledge in mathematical finance in particular interest rate theory and elementary stochastic analysis this research monograph has threefold aims to bring together estimation methods and factor models for interest rates to provide appropriate consistency conditions and to explore some important examples **Cryptography and Coding** Matthew G. Parker,2009-12-02 This book constitutes the refereed proceedings of the 12th IMA International Conference on Cryptography and Coding held in Cirencester UK in December 2009 The 26 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 53 submissions The papers are organized in topical sections on coding theory symmetric cryptography security protocols asymmetric cryptography Boolean functions and side channels and implementations *Deformations of Singularities* Jan Stevens,2003-01-01 These notes deal with deformation theory of complex analytic singularities and related objects The first part treats general theory The central notion is that of versal deformation in several variants The theory is developed both in

an abstract way and in a concrete way suitable for computations The second part deals with more specific problems specially on curves and surfaces Smoothings of singularities are the main concern Examples are spread throughout the text

Geometric Aspects of Functional Analysis ,2003   Statistical learning theory and stochastic optimization Olivier Catoni,2004   Decomposability of Tensors Luca Chiantini,2019-02-15 This book is a printed edition of the Special Issue Decomposability of Tensors that was published in Mathematics   **Noncommutative Gröbner Bases and Filtered-Graded Transfer** Huishi Li,2004-10-19 This self contained monograph is the first to feature the intersection of the structure theory of noncommutative associative algebras and the algorithmic aspect of Groebner basis theory A double filtered graded transfer of data in using noncommutative Groebner bases leads to effective exploitation of the solutions to several structural computational problems e g an algorithmic recognition of quadric solvable polynomial algebras computation of GK dimension and multiplicity for modules and elimination of variables in noncommutative setting All topics included deal with algebras of q differential operators as well as some other operator algebras enveloping algebras of Lie algebras typical quantum algebras and many of their deformations   *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 presribed 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   **Measures with Symmetry Properties** Werner Schindler,2003-02-12 Symmetries and invariance principles play an important role in various branches of mathematics This book deals with measures having weak symmetry properties Even mild conditions ensure that all invariant Borel measures on a second countable locally compact space can be expressed as images of specific product measures under a fixed mapping The results derived in this book are interesting for their own and moreover a number of carefully investigated examples underline and illustrate their usefulness and applicability for integration problems stochastic simulations and statistical applications   **hp-Finite Element Methods for Singular Perturbations** Jens M. Melenk,2004-10-19 Many partial differential equations arising in practice are parameter dependent problems that are of singularly perturbed type Prominent examples include plate and shell models for small thickness in solid mechanics convection diffusion problems in fluid mechanics and equations arising in semi conductor device modelling Common features of these problems are layers and in the case of non smooth geometries corner singularities Mesh design principles for the efficient approximation of both features by the hp version of the finite element method hp FEM are proposed in this volume For a class of singularly perturbed problems on polygonal domains robust exponential convergence of the hp FEM based on these mesh design principles is established rigorously   *Geometric, Control and Numerical Aspects of Nonholonomic Systems* Jorge Cortés Monforte,2004-10-19 Nonholonomic systems are a widespread topic in several scientific and

commercial domains including robotics locomotion and space exploration This work sheds new light on this interdisciplinary character through the investigation of a variety of aspects coming from several disciplines The main aim is to illustrate the idea that a better understanding of the geometric structures of mechanical systems unveils new and unknown aspects to them and helps both analysis and design to solve standing problems and identify new challenges In this way separate areas of research such as Classical Mechanics Differential Geometry Numerical Analysis or Control Theory are brought together in this study of nonholonomic systems **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 Ext1 E F for Fr chet 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 **Stability Estimates for Hybrid Coupled Domain Decomposition Methods** Olaf Steinbach,2003-01-01 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 Analytic Capacity, Rectifiability, Menger Curvature and Cauchy Integral Hervé M. Pajot,2002-01-01 Based on a graduate course given by the author at Yale University this book deals with complex analysis analytic capacity geometric measure theory rectifiable and uniformly rectifiable sets and harmonic analysis boundedness of singular integral operators on Ahlfors regular sets In particular these notes contain a description of Peter Jones geometric traveling salesman theorem the proof of the equivalence between uniform rectifiability and boundedness of the Cauchy operator on Ahlfors regular sets the complete proofs of the Denjoy conjecture and the Vitushkin conjecture for the latter only the Ahlfors regular case and a discussion of X Tolsa s solution of the Painlev problem **Mixed Automorphic Forms, Torus Bundles, and Jacobi Forms** Min Ho Lee,2004-05-13 This volume deals with various topics around equivariant holomorphic maps of Hermitian symmetric domains and is intended for specialists in number theory and algebraic geometry In particular it contains a comprehensive exposition of mixed automorphic forms that has never yet appeared in book form The main goal is to explore connections among complex torus bundles mixed automorphic forms and Jacobi forms associated to an equivariant holomorphic map Both number theoretic and algebro geometric aspects of such connections and related topics are discussed

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