# CONTEMPORARY MATHEMATICS

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# Real Algebraic Geometry and Ordered Structures

AMS Special Session on Real Algebraic Geometry and Ordered Algebraic Structures held at Louisiana State University, Baton Rouge, LA. April 17–21, 1996

Real Algebraic Geometry and Ordered Structures held at Louisiana State University and Southern University, Baton Rouge, LA, January–May 1996

> Charles N. Delzell James J. Madden Editors



# **Real Algebraic Geometry And Ordered Structures**

Tien Son Pham, Ha Huy Vui

#### **Real Algebraic Geometry And Ordered Structures:**

Real Algebraic Geometry and Ordered Structures Charles N. Delzell, James J. Madden, 2000 This volume contains 16 carefully refereed articles by participants in the Special Semester and the AMS Special Session on Real Algebraic Geometry and Ordered Structures held at Louisiana State University and Southern University Baton Rouge The 23 contributors to this volume were among the 75 mathematicians from 15 countries who participated in the special semester Topics include the topology of real algebraic curves Hilbert s 16th problem moduli of real algebraic curves effective sums of squares of real forms Hilbert's 17th problem efficient real quantifier elimination subanalytic sets and stratifications semialgebraic singularity theory radial vector fields exponential functions and valuations on nonarchimedean ordered fields valued field extensions partially ordered and lattice ordered rings rings of continuous functions spectra of rings and abstract spaces of higher level orderings and real places This volume provides a good overview of the state of the art in this area in the 1990s It includes both expository and original research papers by top workers in this thriving field The authors and editors strived to make the volume useful to a wide audience including students and researchers interested in real algebraic geometry and ordered structures two subjects that are obviously related but seldom brought together Real Algebraic Geometry and **Ordered Structures** James J. Madden, 1899 Recent Advances in Real Algebraic Geometry and Quadratic Forms Bill Jacob, Tsit-Yuen Lam, Robert O. Robson, 1994 The papers collected here present an up to date record of the current research developments in the fields of real algebraic geometry and quadratic forms Articles range from the technical to the expository and there are also indications to new research directions A Course in Real Algebraic Geometry Claus Scheiderer, 2024-09-12 This textbook is designed for a one year graduate course in real algebraic geometry with a particular focus on positivity and sums of squares of polynomials The first half of the book features a thorough introduction to ordered fields and real closed fields including the Tarski Seidenberg projection theorem and transfer principle Classical results such as Artin's solution to Hilbert's 17th problem and Hilbert's theorems on sums of squares of polynomials are presented in detail Other features include careful introductions to the real spectrum and to the geometry of semialgebraic sets The second part studies Archimedean positivstellens tze in great detail and in various settings together with important applications The techniques and results presented here are fundamental to contemporary approaches to polynomial optimization Important results on sums of squares on projective varieties are covered as well The last part highlights applications to semidefinite programming and polynomial optimization including recent research on semidefinite representation of convex sets Written by a leading expert and based on courses taught for several years the book assumes familiarity with the basics of commutative algebra and algebraic varieties as can be covered in a one semester first course Over 350 exercises of all levels of difficulty are included in the book Real Algebraic Geometry Michel Coste, Louis Mahe, Marie-Francoise Roy, 2006-11-15 Ten years after the first Rennes international meeting on real algebraic geometry the second one looked at the developments

in the subject during the intervening decade see the 6 survey papers listed below Further contributions from the participants on recent research covered real algebra and geometry topology of real algebraic varieties and 16thHilbert problem classical algebraic geometry techniques in real algebraic geometry algorithms in real algebraic geometry semialgebraic geometry real analytic geometry CONTENTS Survey papers M Knebusch Semialgebraic topology in the last ten years R Parimala Algebraic and topological invariants of real algebraic varieties Polotovskii G M On the classification of decomposing plane algebraic curves Scheiderer C Real algebra and its applications to geometry in the last ten years some major developments and results Shustin E L Topology of real plane algebraic curves Silhol R Moduli problems in real algebraic geometry Further contributions by S Akbulut and H King C Andradas and J Ruiz A Borobia L Br cker G W Brumfield A Castilla Z Charzynski and P Skibinski M Coste and M Requiat A Degtyarev Z Denkowska J P Francoise and F Ronga J M Gamboa and C Ueno D Gondard Cozette I V Itenberg P Jaworski A Korchagin T Krasinksi and S Spodzieja K Kurdyka H Lombardi M Marshall and L Walter V F Mazurovskii G Mikhalkin T Mostowski and E Rannou E I Shustin N Vorobjov Recent Advances in Numerical Methods for Partial Differential Equations and Applications Xiaobing Feng, Tim P. Schulze, 2002 This book is derived from lectures presented at the 2001 John H Barrett Memorial Lectures at the University of Tennessee Knoxville The topic was computational mathematics focusing on parallel numerical algorithms for partial differential equations their implementation and applications in fluid mechanics and material science Compiled here are articles from six of nine speakers Each of them is a leading researcher in the field of computational mathematics and its applications A vast area that has been coming into its own over the past 15 years computational mathematics has experienced major developments in both algorithmic advances and applications to other fields These developments have had profound implications in mathematics science engineering and industry With the aid of powerful high performance computers numerical simulation of physical phenomena is the only feasible method for analyzing many types of important phenomena joining experimentation and theoretical analysis as the third method of scientific investigation The three aspects applications theory and computer implementation comprise a comprehensive overview of the topic Leading lecturers were Mary Wheeler on applications Jinchao Xu on theory and David Keyes on computer implementation Following the tradition of the Barrett Lectures these in depth articles and expository discussions make this book a useful reference for graduate students as well as the many groups of researchers working in advanced computations including engineering and computer scientists Radon Transforms and Tomography Eric Todd Quinto, 2001 One of the most exciting features of the fields of Radon transforms and tomography is the strong relationship between high level pure mathematics and applications to areas such as medical imaging and industrial nondestructive evaluation The proceedings featured in this volume bring together fundamental research articles in the major areas of Radon transforms and tomography This volume includes expository papers that are of special interest to beginners as well as advanced researchers Topics include local tomography and wavelets Lambda tomography and related methods tomographic

methods in RADAR ultrasound Radon transforms and differential equations and the Pompeiu problem The major themes in Radon transforms and tomography are represented among the research articles Pure mathematical themes include vector tomography microlocal analysis twistor theory Lie theory wavelets harmonic analysis and distribution theory The applied articles employ high quality pure mathematics to solve important practical problems Effective scanning geometries are developed and tested for a NASA wind tunnel Algorithms for limited electromagnetic tomographic data and for impedance imaging are developed and tested Range theorems are proposed to diagnose problems with tomography scanners Principles are given for the design of X ray tomography reconstruction algorithms and numerical examples are provided This volume offers readers a comprehensive source of fundamental research useful to both beginners and advanced researchers in the Structured Matrices in Mathematics, Computer Science, and Engineering II Vadim Olshevsky, 2001 The collection of the contributions to these volumes offers a flavor of the plethora of different approaches to attack structured matrix problems The reader will find that the theory of structured matrices is positioned to bridge diverse applications in the sciences and engineering deep mathematical theories as well as computational and numberical issues The presentation fully illustrates the fact that the technicques of engineers mathematicisn and numerical analysts nicely complement each other and they all contribute to one unified theory of structured matrices Back cover Nonlinear PDE's, Dynamics and Continuum Physics J. L. Bona, Katarzyna Saxton, Ralph Saxton, 2000 This volume contains the refereed proceedings of the conference on Nonlinear Partial Differential Equations Dynamics and Continuum Physics which was held at Mount Holyoke College in Massachusetts from July 19th to July 23rd 1998 Models examined derive from a wide range of applications including elasticity thermoviscoelasticity granular media fluid dynamics gas dynamics and conservation laws Mathematical topics include existence theory and stability instability of traveling waves asymptotic behavior of solutions to nonlinear wave equations effects of dissipation mechanisms of blow up well posedness and regularity and fractal solutions. The text will be of interest to graduate students and researchers working in nonlinear partial differential equations and applied mathematics

Structured Matrices in Mathematics, Computer Science, and Engineering I Vadim Olshevsky,2001 The collection of the contributions to these volumes offers a flavor of the plethora of different approaches to attack structured matrix problems. The reader will find that the theory of structured matrices is positioned to bridge diverse applications in the sciences and engineering deep mathematical theories as well as computational and numberical issues. The presentation fully illustrates the fact that the technicques of engineers mathematicisn and numerical analysts nicely complement each other and they all contribute to one unified theory of structured matrices. Back cover Computability Theory and Its Applications Peter. Cholak, 2000 This collection of articles presents a snapshot of the status of computability theory at the end of the millennium and a list of fruitful directions for future research. The papers represent the works of experts in the field who were invited speakers at the AMS IMS SIAM 1999 Summer Conference on Computability Theory and Applications which focused on open

problems in computability theory and on some related areas in which the ideas methods and or results of computability theory play a role Some presentations are narrowly focused others cover a wider area Topics included from pure computability theory are the computably enumerable degrees M Lerman the computably enumerable sets P Cholak R Soare definability issues in the c e and Turing degrees A Nies R Shore and other degree structures M Arslanov S Badaev and S Goncharov P Odifreddi A Sorbi The topics involving relations between computability and other areas of logic and mathematics are reverse mathematics and proof theory D Cenzer and C Jockusch C Chong and Y Yang H Friedman and S Simpson set theory R Dougherty and A Kechris M Groszek T Slaman and computable mathematics and model theory K Ambos Spies and A Kucera R Downey and J Remmel S Goncharov and B Khoussainov J Knight M Peretyat kin A Shlapentokh Introduction to Polynomial and Semi-Algebraic Optimization Jean Bernard Lasserre, 2015-02-19 This is the first comprehensive introduction to the powerful moment approach for solving global optimization problems and some related problems described by polynomials and even semi algebraic functions. In particular the author explains how to use relatively recent results from real algebraic geometry to provide a systematic numerical scheme for computing the optimal value and global minimizers Indeed among other things powerful positivity certificates from real algebraic geometry allow one to define an appropriate hierarchy of semidefinite SOS relaxations or LP relaxations whose optimal values converge to the global minimum Several extensions to related optimization problems are also described Graduate students engineers and researchers entering the field can use this book to understand experiment with and master this new approach through the simple worked examples provided Differential Geometric Methods in the Control of Partial Differential Equations Robert Gulliver, 2000 This volume contains selected papers that were presented at the AMS IMS SIAM Joint Summer Research Conference on Differential Geometric Methods in the Control of Partial Differential Equations which was held at the University of Colorado in Boulder in June 1999 The aim of the conference was to explore the infusion of differential geometric methods into the analysis of control theory of partial differential equations particularly in the challenging case of variable coefficients where the physical characteristics of the medium vary from point to point While a mutually profitable link has been long established for at least 30 years between differential geometry and control of ordinary differential equations a comparable relationship between differential geometry and control of partial differential equations PDEs is a new and promising topic Very recent research just prior to the Colorado conference supported the expectation that differential geometric methods when brought to bear on classes of PDE modelling and control problems with variable coefficients will yield significant mathematical advances The papers included in this volume written by specialists in PDEs and control of PDEs as well as by geometers collectively support the claim that the aims of the conference are being fulfilled In particular they endorse the belief that both subjects differential geometry and control of PDEs have much to gain by closer interaction with one another Consequently further research activities in this area are bound to grow **Recent Progress in** 

**Homotopy Theory** Donald M. Davis, 2002 This volume presents the proceedings from the month long program held at Johns Hopkins University Baltimore MD on homotopy theory sponsored by the Japan U S Mathematics Institute JAMI The book begins with historical accounts on the work of Professors Peter Landweber and Stewart Priddy Central among the other topics are the following 1 classical and nonclassical theory of H spaces compact groups and finite groups 2 classical and chromatic homotopy theory and localization 3 classical and topological Hochschild cohomology 4 elliptic cohomology and its relation to Moonshine and topological modular forms and 5 motivic cohomology and Chow rings This volume surveys the current state of research in these areas and offers an overview of future directions Real and Complex Singularities James William Bruce, Farid Tari, 1999-08-26 The boundaries of singularity theory are broad and vague connecting the most important applications of mathematics and science with more abstract areas Optics robotics computer vision Hamiltonian mechanics bifurcation theory and differential equations are among the variety of topics that benefit from developments in the theory With singularity theory encompassing more and more applications Real and Complex Singularities provides insight into the future of this expanding field Comprising refereed contributions to the Fifth Workshop on Real and Complex Singularities this volume addresses three important areas related to the broad subject of singularities. The first section deals with questions within singularity theory itself representing the topics currently being investigated The second explores applications of singularity theory to differential geometry robotics and computer vision The final section consists of applications to bifurcation theory and dynamical systems With over two hundred tables that provide quick access to data this volume is a complete overview of the most current topics and applications of singularity theory Real and Complex Singularities creates the opportunity for you to stay up to date with recent advances and discover promising directions for future research in the field Dynamical, Spectral, and Arithmetic Zeta Functions Michel Laurent Lapidus, Machiel Van Frankenhuysen, 2001 The original zeta function was studied by Riemann as part of his investigation of the distribution of prime numbers Other sorts of zeta functions were defined for number theoretic purposes such as the study of primes in arithmetic progressions This led to the development of L functions which now have several guises It eventually became clear that the basic construction used for number theoretic zeta functions can also be used in other settings such as dynamics geometry and spectral theory with remarkable results This volume grew out of the special session on dynamical spectral and arithmetic zeta functions held at the annual meeting of the American Mathematical Society in San Antonio but also includes four articles that were invited to be part of the collection The purpose of the meeting was to bring together leading researchers to find links and analogies between their fields and to explore new methods The papers discuss dynamical systems spectral geometry on hyperbolic manifolds trace formulas in geometry and in arithmetic as well as computational work on the Riemann zeta function Each article employs techniques of zeta functions The book unifies the application of these techniques in spectral geometry fractal geometry and number theory It is a comprehensive volume offering up to date

research It should be useful to both graduate students and confirmed researchers Partially Ordered Rings and **Semi-Algebraic Geometry** Gregory W. Brumfiel, 1979-12-20 The purpose of this unique book is to establish purely algebraic foundations for the development of certain parts of topology Some topologists seek to understand geometric properties of solutions to finite systems of equations or inequalities and configurations which in some sense actually occur in the real world Others study spaces constructed more abstractly using infinite limit processes Their goal is to determine just how similar or different these abstract spaces are from those which are finitely described However as topology is usually taught even the first more concrete type of problem is approached using the language and methods of the second type Professor Brumfiel's thesis is that this is unnecessary and in fact misleading philosophically He develops a type of algebra partially ordered rings in which it makes sense to talk about solutions of equations and inequalities and to compare geometrically the resulting spaces The importance of this approach is primarily that it clarifies the sort of geometrical questions one wants to ask and answer about those spaces which might have physical significance Second Summer School in Analysis and Mathematical Physics Salvador Pérez-Esteva, 2001 For the second time a Summer School in Analysis and Mathematical Physics took place at the Universidad Nacional Autonoma de Mexico in Cuernavaca The purpose of the schools is to provide a bridge from standard graduate courses in mathematics to current research topics particularly in analysis The lectures are given by internationally recognized specialists in the fields The topics covered in this Second Summer School include harmonic analysis complex analysis pseudodifferential operators the mathematics of quantum chaos and non linear analysis

Hilbert's Tenth Problem: Relations with Arithmetic and Algebraic Geometry Jan Denef,2000 This book is the result of a meeting that took place at the University of Ghent Belgium on the relations between Hilbert's tenth problem arithmetic and algebraic geometry Included are written articles detailing the lectures that were given as well as contributed papers on current topics of interest The following areas are addressed an historical overview of Hilbert's tenth problem Hilbert's tenth problem for various rings and fields model theory and local global principles including relations between model theory and algebraic groups and analytic geometry conjectures in arithmetic geometry and the structure of diophantine sets for example with Mazur's conjecture Lang's conjecture and B cchi's problem and results on the complexity of diophantine geometry highlighting the relation to the theory of computation The volume allows the reader to learn and compare different approaches arithmetical geometrical topological model theoretical and computational to the general structural analysis of the set of solutions of polynomial equations. It would make a nice contribution to graduate and advanced graduate courses on logic algebraic geometry and number theory. Genericity In Polynomial Optimization Tien Son Pham, Ha Huy Vui, 2016-12-22. In full generality minimizing a polynomial function over a closed semi algebraic set requires complex mathematical equations. This book explains recent developments from singularity theory and semi algebraic geometry for studying polynomial optimization problems.

only the two basic and relatively simple notions of Newton polyhedron and non degeneracy conditions associated with a given polynomial optimization problem These conditions are well known in singularity theory however they are rarely considered within the optimization community Explanations focus on critical points and tangencies of polynomial optimization H lderian error bounds for polynomial systems Frank Wolfe type theorem for polynomial programs and well posedness in polynomial optimization It then goes on to look at optimization for the different types of polynomials Through this text graduate students PhD students and researchers of mathematics will be provided with the knowledge necessary to use semi algebraic geometry in optimization

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