Spectral Theory and Analytic Geometry Over Non-Archimedean Fields

Vladimir G. Berkovich

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    Spectral Theory and Analytic Geometry Over Non-Archimedean Fields Vladimir G. Berkovich,1990 The purpose of this book is to introduce a new notion of analytic space over a non Archimedean field Despite the total disconnectedness of the ground field these analytic spaces have the usual topological properties of a complex analytic space such as local compactness and local arcwise connectedness This makes it possible to apply the usual notions of homotopy and singular homology The book includes a homotopic characterization of the analytic spaces associated with certain classes of algebraic varieties and an interpretation of Bruhat Tits buildings in terms of these analytic spaces The author also studies the connection with the earlier notion of a rigid analytic space Geometrical considerations are used to obtain some applications and the analytic spaces are used to construct the foundations of a non Archimedean spectral theory of bounded linear operators This book requires a background at the level of basic graduate courses in algebra and topology as well as some familiarity with algebraic geometry It would be of interest to research mathematicians and graduate students working in algebraic geometry number theory and p adic analysis   Spectral Theory and Analytic Geometry Over Non-Archimedean Fields Vladimir G. Berkovich,2014-06-29 The purpose of this book is to introduce a new notion of analytic space over a non Archimedean field Despite the total disconnectedness of the ground field these analytic spaces have the usual topological properties of a complex analytic space such as local compactness and local arcwise connectedness This makes it possible to apply the usual notions of homotopy and singular homology The book includes a homotopic characterization of the analytic spaces associated with certain classes of algebraic varieties and an interpretation of Bruhat Tits buildings in terms of these analytic spaces The author also studies the connection with the earlier notion of a rigid analytic space Geometrical considerations are used to obtain some applications and the analytic spaces are used to construct the foundations of a non Archimedean spectral theory of bounded linear operators This book requires a background at the level of basic graduate courses in algebra and topology as well as some familiarity with algebraic geometry It would be of interest to research mathematicians and graduate students working in algebraic geometry number theory and p adic analysis   **Integration of One-forms on P-adic Analytic Spaces** Vladimir G. Berkovich,2006-11-13 Among the many differences between classical and p adic objects those related to differential equations occupy a special place For example a closed p adic analytic one form defined on a simply connected domain does not necessarily have a primitive in the class of analytic functions In the early 1980s Robert Coleman discovered a way to construct primitives of analytic one forms on certain smooth p adic analytic curves in a bigger class of functions Since then there have been several attempts to generalize his ideas to smooth p adic analytic spaces of higher dimension but the spaces considered were invariably associated with algebraic varieties This book aims to show that every smooth p adic analytic space is provided with a sheaf of functions that includes all analytic ones and satisfies a uniqueness property It also contains local primitives of all closed one forms with coefficients in the sheaf that in

the case considered by Coleman coincide with those he constructed In consequence one constructs a parallel transport of local solutions of a unipotent differential equation and an integral of a closed one form along a path so that both depend nontrivially on the homotopy class of the path Both the author s previous results on geometric properties of smooth p adic analytic spaces and the theory of isocrystals are further developed in this book which is aimed at graduate students and mathematicians working in the areas of non Archimedean analytic geometry number theory and algebraic geometry

   Nonarchimedean and Tropical Geometry Matthew Baker,Sam Payne,2016-08-18 This volume grew out of two Simons Symposia on Nonarchimedean and tropical geometry which took place on the island of St John in April 2013 and in Puerto Rico in February 2015 Each meeting gathered a small group of experts working near the interface between tropical geometry and nonarchimedean analytic spaces for a series of inspiring and provocative lectures on cutting edge research interspersed with lively discussions and collaborative work in small groups The articles collected here which include high level surveys as well as original research mirror the main themes of the two Symposia Topics covered in this volume include Differential forms and currents and solutions of Monge Ampere type differential equations on Berkovich spaces and their skeletons The homotopy types of nonarchimedean analytifications The existence of faithful tropicalizations which encode the topology and geometry of analytifications Relations between nonarchimedean analytic spaces and algebraic geometry including logarithmic schemes birational geometry and the geometry of algebraic curves Extended notions of tropical varieties which relate to Huber s theory of adic spaces analogously to the way that usual tropical varieties relate to Berkovich spaces and Relations between nonarchimedean geometry and combinatorics including deep and fascinating connections between matroid theory tropical geometry and Hodge theory   **Non-Archimedean Operator Theory** Toka Diagana,François Ramaroson,2016-04-07 This book focuses on the theory of linear operators on non Archimedean Banach spaces The topics treated in this book range from a basic introduction to non Archimedean valued fields free non Archimedean Banach spaces bounded and unbounded linear operators in the non Archimedean setting to the spectral theory for some classes of linear operators The theory of Fredholm operators is emphasized and used as an important tool in the study of the spectral theory of non Archimedean operators Explicit descriptions of the spectra of some operators are worked out Moreover detailed background materials on non Archimedean valued fields and free non Archimedean Banach spaces are included for completeness and for reference The readership of the book is aimed toward graduate and postgraduate students mathematicians and non mathematicians such as physicists and engineers who are interested in non Archimedean functional analysis Further it can be used as an introduction to the study of non Archimedean operator theory in general and to the study of spectral theory in other special cases   **Towards the Mathematics of Quantum Field Theory** Frédéric Paugam,2014-02-20 This ambitious and original book sets out to introduce to mathematicians even including graduate students the mathematical methods of theoretical and experimental quantum field theory with an emphasis on coordinate

free presentations of the mathematical objects in use This in turn promotes the interaction between mathematicians and physicists by supplying a common and flexible language for the good of both communities though mathematicians are the primary target This reference work provides a coherent and complete mathematical toolbox for classical and quantum field theory based on categorical and homotopical methods representing an original contribution to the literature The first part of the book introduces the mathematical methods needed to work with the physicists spaces of fields including parameterized and functional differential geometry functorial analysis and the homotopical geometric theory of non linear partial differential equations with applications to general gauge theories The second part presents a large family of examples of classical field theories both from experimental and theoretical physics while the third part provides an introduction to quantum field theory presents various renormalization methods and discusses the quantization of factorization algebras

p-adic Geometry Matthew Baker,2008 In recent decades p adic geometry and p adic cohomology theories have become indispensable tools in number theory algebraic geometry and the theory of automorphic representations The Arizona Winter Schoo1 2007 on which the current book is based was a unique opportunity to introduce graduate students to this subject Following invaluable introductions by John Tate and Vladimir Berkovich two pioneers of non archimedean geometry Brian Conrad s chapter introduces the general theory of Tate s rigid analytic spaces Raynaud s view of them as the generic fibers of formal schemes and Berkovich spaces Samit Dasgupta and Jeremy Teitelbaum discuss the p adic upper half plane as an example of a rigid analytic space and give applications to number theory modular forms and the p adic Langlands program Matthew Baker offers a detailed discussion of the Berkovich projective line and p adic potential theory on that and more general Berkovich curves Finally Kiran Kedlaya discusses theoretical and computational aspects of p adic cohomology and the zeta functions of varieties This book will be a welcome addition to the library of any graduate student and researcher who is interested in learning about the techniques of p adic geometry BOOK JACKET *Algebraic Geometry: Salt Lake City 2015* Richard Thomas,2018-06-01 This is Part 2 of a two volume set Since Oscar Zariski organized a meeting in 1954 there has been a major algebraic geometry meeting every decade Woods Hole 1964 Arcata 1974 Bowdoin 1985 Santa Cruz 1995 and Seattle 2005 The American Mathematical Society has supported these summer institutes for over 50 years Their proceedings volumes have been extremely influential summarizing the state of algebraic geometry at the time and pointing to future developments The most recent Summer Institute in Algebraic Geometry was held July 2015 at the University of Utah in Salt Lake City sponsored by the AMS with the collaboration of the Clay Mathematics Institute This volume includes surveys growing out of plenary lectures and seminar talks during the meeting Some present a broad overview of their topics while others develop a distinctive perspective on an emerging topic Topics span both complex algebraic geometry and arithmetic questions specifically analytic techniques enumerative geometry moduli theory derived categories birational geometry tropical geometry Diophantine questions geometric representation theory characteristic and adic tools etc The resulting

articles will be important references in these areas for years to come *Algebraic and Combinatorial Aspects of Tropical Geometry* Erwan Brugalle,Maria Angelica Cueto,Alicia Dickenstein,Eva-Maria Feichtner,Ilia Itenberg,2013-05-23 This volume contains the proceedings of the CIEM workshop on Tropical Geometry held December 12 16 2011 at the International Centre for Mathematical Meetings CIEM Castro Urdiales Spain Tropical geometry is a new and rapidly developing field of mat

Arakelov Geometry over Adelic Curves Huayi Chen,Atsushi Moriwaki,2020-01-29 The purpose of this book is to build the fundament of an Arakelov theory over adelic curves in order to provide a unified framework for research on arithmetic geometry in several directions By adelic curve is meant a field equipped with a family of absolute values parametrized by a measure space such that the logarithmic absolute value of each non zero element of the field is an integrable function on the measure space In the literature such construction has been discussed in various settings which are apparently transversal to each other The authors first formalize the notion of adelic curves and discuss in a systematic way its algebraic covers which are important in the study of height theory of algebraic points beyond Weil Lang s height theory They then establish a theory of adelic vector bundles on adelic curves which considerably generalizes the classic geometry of vector bundles or that of Hermitian vector bundles over an arithmetic curve They focus on an analogue of the slope theory in the setting of adelic curves and in particular estimate the minimal slope of tensor product adelic vector bundles Finally by using the adelic vector bundles as a tool a birational Arakelov geometry for projective variety over an adelic curve is developed As an application a vast generalization of Nakai Moishezon s criterion of positivity is proven in clarifying the arguments of geometric nature from several fundamental results in the classic geometry of numbers Assuming basic knowledge of algebraic geometry and algebraic number theory the book is almost self contained It is suitable for researchers in arithmetic geometry as well as graduate students focusing on these topics for their doctoral theses **Facets of Algebraic Geometry** Paolo Aluffi,David Anderson,Milena Hering,Mircea Mustaţă,Sam Payne,2022-04-07 Written to honor the enduring influence of William Fulton these articles present substantial contributions to algebraic geometry *Local Fields and Their Extensions: Second Edition* Ivan B. Fesenko,S. V. Vostokov,2002-07-17 This book offers a modern exposition of the arithmetical properties of local fields using explicit and constructive tools and methods It has been ten years since the publication of the first edition and according to Mathematical Reviews 1 000 papers on local fields have been published during that period This edition incorporates improvements to the first edition with 60 additional pages reflecting several aspects of the developments in local number theory The volume consists of four parts elementary properties of local fields class field theory for various types of local fields and generalizations explicit formulas for the Hilbert pairing and Milnor groups of fields and of local fields The first three parts essentially simplify revise and update the first edition The book includes the following recent topics Fontaine Wintenberger theory of arithmetically profinite extensions and fields of norms explicit noncohomological approach to the reciprocity map with a review of all other approaches to local class field theory Fesenko s class field theory for local fields

with perfect residue field simplified updated presentation of Vostokov s explicit formulas for the Hilbert norm residue symbol and Milnor groups of local fields Numerous exercises introduce the reader to other important recent results in local number theory and an extensive bibliography provides a guide to related areas **The Abel Prize 2008-2012** Helge Holden,Ragni Piene,2014-01-21 Covering the years 2008 2012 this book profiles the life and work of recent winners of the Abel Prize John G Thompson and Jacques Tits 2008 Mikhail Gromov 2009 John T Tate Jr 2010 John W Milnor 2011 Endre Szemer di 2012 The profiles feature autobiographical information as well as a description of each mathematician s work In addition each profile contains a complete bibliography a curriculum vitae as well as photos old and new As an added feature interviews with the Laureates are presented on an accompanying web site http extras springer com The book also presents a history of the Abel Prize written by the historian Kim Helsvig and includes a facsimile of a letter from Niels Henrik Abel which is transcribed translated into English and placed into historical perspective by Christian Skau This book follows on The Abel Prize 2003 2007 The First Five Years Springer 2010 which profiles the work of the first Abel Prize winners **Geometric Aspects of Dwork Theory** Alan Adolphson,Francesco Baldassarri,Pierre Berthelot,Nicholas Katz,Francois Loeser,2008-08-22 This two volume book collects the lectures given during the three months cycle of lectures held in Northern Italy between May and July of 2001 to commemorate Professor Bernard Dwork 1923 1998 It presents a wide ranging overview of some of the most active areas of contemporary research in arithmetic algebraic geometry with special emphasis on the geometric applications of the p adic analytic techniques originating in Dwork s work their connection to various recent cohomology theories and to modular forms The two volumes contain both important new research and illuminating survey articles written by leading experts in the field The book will provide an indispensable resource for all those wishing to approach the frontiers of research in arithmetic algebraic geometry **New Spaces in Mathematics** Mathieu Anel,Gabriel Catren,2021-04 In this graduate level book leading researchers explore various new notions of space in mathematics **Value Distribution In P-adic Analysis** Alain Escassut,2015-11-27 The book first explains the main properties of analytic functions in order to use them in the study of various problems in p adic value distribution Certain properties of p adic transcendental numbers are examined such as order and type of transcendence with problems on p adic exponentials Lazard s problem for analytic functions inside a disk is explained P adic meromorphics are studied Sets of range uniqueness in a p adic field are examined The ultrametric Corona problem is studied Injective analytic elements are characterized The p adic Nevanlinna theory is described and many applications are given p adic Hayman conjecture Picard s values for derivatives small functions branched values growth of entire functions problems of uniqueness URSCM and URSIM functions of uniqueness sharing value problems Nevanlinna theory in characteristic p 0 p adic Yosida s equation **Algebra, Arithmetic, and Geometry** Yuri Tschinkel,Yuri Zarhin,2010-08-05 EMAlgebra Arithmetic and Geometry In Honor of Yu I ManinEM consists of invited expository and research articles on new developments arising from Manin s outstanding contributions to mathematics

Algebra And Number Theory Mohammed Boulagouaz,Jean-Pierre Tignol,1999-11-09 This study demonstrates the key manipulations surrounding Brauer groups graded rings group representations ideal classes of number fields p adic differential equations and rationality problems of invariant fields displaying a command of the most advanced methods in algebra It describes new developments in noncommutative valuation theory and   Geometry and Physics of Branes U Bruzzo,V. Gorini,U. Moschella,2002-11-05 Branes are solitonic configurations of a string theory that are represented by extended objects in a higher dimensional space time They are essential for a comprehension of the non perturbative aspects of string theory in particular in connection with string dualities From the mathematical viewpoint branes are related to several important theo   **Modules over Non-Noetherian Domains** László Fuchs,Luigi Salce,2001 In this book the authors present both traditional and modern discoveries in the subject area concentrating on advanced aspects of the topic Existing material is studied in detail including finitely generated modules projective and injective modules and the theory of torsion and torsion free modules Some topics are treated from a new point of view Also included are areas not found in current texts for example pure injectivity divisible modules uniserial modules etc Special emphasis is given to results that are valid over arbitrary domains The authors concentrate on modules over valuation and Pr fer domains but also discuss Krull and Matlis domains h local reflexive and coherent domains The volume can serve as a standard reference book for specialists working in the area and also is a suitable text for advanced graduate algebra courses and seminars

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