Spectral Theory and Analytic Geometry Over Non-Archimedean Fields

Vladimir G. Berkovich

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Shu Kawaguchi,Kazuhiko Yamaki

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Spectral Theory and Analytic Geometry over Non-Archimedean Fields Vladimir G. Berkovich,2012-08-02 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 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

Integration of One-forms on P-adic Analytic Spaces. (AM-162) Vladimir G. Berkovich,2007 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   Value Distribution Theory and Complex Dynamics William Cherry,Chung-Chun Yang,2002 This volume contains six detailed papers written by participants of the special session on value distribution theory and complex dynamics held in Hong Kong at the First Joint International Meeting of the AMS and the Hong Kong Mathematical Society in December 2000 It demonstrates the strong interconnections between the two fields and introduces recent progress of leading researchers from Asia In the book W Bergweiler discusses proper analytic maps with one critical point andgeneralizes a previous result concerning Leau domains W Cherry and J Wang discuss non Archimedean analogs of Picard s theorems P C Hu and C C Yang give a survey of results in non Archimedean value distribution theory related to unique range sets the abc conjecture and Shiffman s conjecture L Keen and J Kotus explore the dynamics of the family of f lambda z lambda tan z and show that it has much in common with the dynamics of the familiar quadratic family f c z z2 c R Oudkerk discusses the interesting phenomenon known as parabolic implosion and in particular shows the persistence of Fatou coordinates under perturbation Finally M Taniguchi discusses deformation spaces of entire functions and their combinatorial structure of singularities of the functions The bookis intended for graduate students and research mathematicians interested

in complex dynamics function theory and non Archimedean function theory   **Berkovich Spaces and Applications**
Antoine Ducros,Charles Favre,Johannes Nicaise,2014-11-21 We present an introduction to Berkovich s theory of non archimedean analytic spaces that emphasizes its applications in various fields The first part contains surveys of a foundational nature including an introduction to Berkovich analytic spaces by M Temkin and to tale cohomology by A Ducros as well as a short note by C Favre on the topology of some Berkovich spaces The second part focuses on applications to geometry A second text by A Ducros contains a new proof of the fact that the higher direct images of a coherent sheaf under a proper map are coherent and B R my A Thuillier and A Werner provide an overview of their work on the compactification of Bruhat Tits buildings using Berkovich analytic geometry The third and final part explores the relationship between non archimedean geometry and dynamics A contribution by M Jonsson contains a thorough discussion of non archimedean dynamical systems in dimension 1 and 2 Finally a survey by J P Otal gives an account of Morgan Shalen s theory of compactification of character varieties This book will provide the reader with enough material on the basic concepts and constructions related to Berkovich spaces to move on to more advanced research articles on the subject We also hope that the applications presented here will inspire the reader to discover new settings where these beautiful and intricate objects might arise   *Valuation Theory and Its Applications* Franz-Viktor Kuhlmann,Salma Kuhlmann,Murray Marshall,2002-01-01 This book is the first of two proceedings volumes stemming from the International Conference and Workshop on Valuation Theory held at the University of Saskatchewan Saskatoon SK Canada Valuation theory arose in the early part of the twentieth century in connection with number theory and has many important applications to geometry and analysis the classical application to the study of algebraic curves and to Dedekind and Prufer domains the close connection to the famousresolution of the singularities problem the study of the absolute Galois group of a field the connection between ordering valuations and quadratic forms over a formally real field the application to real algebraic geometry the study of noncommutative rings etc The special feature of this book isits focus on current applications of valuation theory to this broad range of topics Also included is a paper on the history of valuation theory The book is suitable for graduate students and research mathematicians working in algebra algebraic geometry number theory and mathematical logic   **Effective Faithful Tropicalizations Associated to Linear Systems on Curves** Shu Kawaguchi,Kazuhiko Yamaki,2021-07-21 For a connected smooth projective curve X of genus g global sections of any line bundle L with deg L 2g 1 give an embedding of the curve into projective space We consider an analogous statement for a Berkovich skeleton in nonarchimedean geometry We replace projective space by tropical projective space and an embedding by a homeomorphism onto its image preserving integral structures or equivalently since X is a curve an isometry which is called a faithful tropicalization Let K be an algebraically closed field which is complete with respect to a nontrivial nonarchimedean value Suppose that X is defined over K and has genus g 2 and that is a skeleton that is allowed to have ends of the analytification Xan of X in the sense of Berkovich We show that if deg L

3g 1 then global sections of L give a faithful tropicalization of into tropical projective space As an application when Y is a suitable affine curve we describe the analytification Y an as the limit of tropicalizations of an effectively bounded degree

Advances in Ultrametric Analysis Khodr Shamseddine,2013 This volume contains papers based on lectures given at the 12th International Conference on p adic Functional Analysis which was held at the University of Manitoba on July 2 6 2012 The articles included in this book feature recent developments in various areas of non archimedean analysis branched values and zeros of the derivative of a p adic meromorphic function p adic meromorphic functions f prime P prime f g prime P prime g sharing a small function properties of composition of analytic functions partial fractional differentiability morphisms between ultrametric Banach algebras of continuous functions and maximal ideals of finite dimension the p adic q distributions Banach spaces over fields with an infinite rank valuation Grobman Hartman theorems for diffeomorphisms of Banach spaces over valued fields integral representations of continuous linear maps on p adic spaces of continuous functions non Archimedean operator algebras generalized Keller spaces over valued fields proper multiplications on the completion of a totally ordered abelian group the Grothendieck approximation theory in non Archimedean functional analysis generalized power series spaces measure theory and the study of power series and analytic functions on the Levi Civita fileds Through a combination of new research articles and survey papers this book provides the reader with an overview of current developments and techniques in non archimedean analysis as well as a broad knowledge of some of the sub areas of this exciting and fast developing research area   Proceedings of the International Congress of Mathematicians: Invited lectures Gerd Fischer,Ulf Rehmann,1998   **Notices of the American Mathematical Society** American Mathematical Society,1990   Acta Arithmetica ,2018   *Étale Cohomology of Rigid Analytic Varieties and Adic Spaces* Roland Huber,1996 Diese Forschungsmonographie von hohem mathematischen Niveau liefert einen neuen Zugang zu den rigid analytischen R umen sowie ihrer etalen Kohomologie USP Aus der Froschung Zahlentheorie und Algebraische Geometrie

Illinois Journal of Mathematics ,1996   American journal of mathematics ,2004   *Rings of Separated Power Series and Quasi-affinoid Geometry* Leonard Lipshitz,Zachary Robinson,2000   **Geometric Aspects of Dwork Theory** Alan Adolphson,2004 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications   **International Journal of Mathematics, Game Theory, and Algebra** ,2000   数学学报英文版 ,1998   Israel Journal of Mathematics ,1990

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