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**p-adic Analysis:  
a Short Course on  
Recent Work**

NEAL KOBLITZ

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# P Adic Analysis A Short Course On Recent Work

**Neal Koblitz**



## **P Adic Analysis A Short Course On Recent Work:**

**P-adic Analysis** Neal Koblitz, 1980-11-28 An introduction to recent work in the theory of numbers and its interrelation with algebraic geometry and analysis

**P-adic Analysis** Neal Koblitz, 1980 This introduction to recent work in p adic analysis and number theory will make accessible to a relatively general audience the efforts of a number of mathematicians over the last five years After reviewing the basics the construction of p adic numbers and the p adic analog of the complex number field power series and Newton polygons the author develops the properties of p adic Dirichlet L series using p adic measures and integration p adic gamma functions are introduced and their relationship to L series is explored Analogies with the corresponding complex analytic case are stressed

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**p-adic Numbers, p-adic Analysis, and Zeta-Functions** NEAL Koblitz, 2012-12-06 These lecture notes are intended as an introduction to p adic analysis on the elementary level For this reason they presuppose as little background as possible Besides about three semesters of calculus I presume some slight exposure to more abstract mathematics to the extent that the student won't have an adverse reaction to matrices with entries in a field other than the real numbers field extensions of the rational numbers or the notion of a continuous map of topological spaces The purpose of this book is twofold to develop some basic ideas of p adic analysis and to present two striking applications which it is hoped can be as effective pedagogically as they were historically in stimulating interest in the field The first of these applications is presented in Chapter II since it only requires the most elementary properties of  $\mathbb{Q}$  this is Mazur's construction by p means of p adic integration of the Kubota Leopoldt p adic zeta function which p adically interpolates the values of the Riemann zeta function at the negative odd integers My treatment is based on Mazur's Bourbaki notes unpublished

**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 *Journal of Nonlinear Mathematical Physics Vol. 14* , **Non-Archimedean Linear Operators and Applications** Toka Diagana,2007 This self contained book provides the reader with a comprehensive presentation of recent investigations on operator theory over non Archimedean Banach and Hilbert spaces This includes non Archimedean valued fields bounded and unbounded linear operators bilinear forms functions of linear operators and one parameter families of bounded linear operators on free branch spaces

**Introduction to Cyclotomic Fields** Lawrence C. Washington,2012-12-06 Introduction to Cyclotomic Fields is a carefully written exposition of a central area of number theory that can be used as a second course in algebraic number theory Starting at an elementary level the volume covers  $p$  adic L functions class numbers cyclotomic units Fermat s Last Theorem and Iwasawa s theory of  $\mathbb{Z}_p$  extensions leading the reader to an understanding of modern research literature Many exercises are included The second edition includes a new chapter on the work of Thaine Kolyvagin and Rubin including a proof of the Main Conjecture There is also a chapter giving other recent developments including primality testing via Jacobi sums and Sinnott s proof of the vanishing of Iwasawa s  $f$  invariant Algorithmic Number Theory Claus Fieker,David R. Kohel,2003-08-02 This book constitutes the refereed proceedings of the 5th International Algorithmic Number Theory Symposium ANTS V held in Sydney Australia in July 2002 The 34 revised full papers presented together with 5 invited papers have gone through a thorough round of reviewing selection and revision The papers are organized in topical sections on number theory arithmetic geometry elliptic curves and CM point counting cryptography function fields discrete logarithms and factoring Groebner bases and complexity **Number Theory** D. V. Chudnovsky,G. V. Chudnovsky,H. Cohn,M. B. Nathanson,2006-11-14 a *Non-archimedean Analysis* Siegfried Bosch,Ulrich Guntzer,Reinhold Remmert,1984 **Motives** Uwe Jannsen,Jean-pierre Serre,Steven Kleiman,1994-02-28 Motives were introduced in the mid 1960s by Grothendieck to explain the analogies among the various cohomology theories for algebraic varieties to play the role of the missing rational cohomology and to provide a blueprint for proving Weil s conjectures about the zeta function of a variety over a finite field Over the last ten years or so researchers in various areas Hodge theory algebraic K theory polylogarithms automorphic forms L functions  $\ell$  adic representations trigonometric sums and algebraic cycles have discovered that an enlarged and in part conjectural theory of mixed motives indicates and explains phenomena appearing in each area Thus the theory holds the potential of enriching and unifying these areas These two volumes contain the revised texts of nearly all the lectures presented at the AMS IMS SIAM Joint Summer Research Conference on Motives held in Seattle in 1991 A number of related

works are also included making for a total of forty seven papers from general introductions to specialized surveys to research papers

*Non-Archimedean L-functions of Siegel and Hilbert Modular Forms* Alekseĭ Alekseevich Panchishkin, 1991     *The American Mathematical Monthly* ,1981     Advanced Studies in Contemporary Mathematics ,2008     Analele științifice ale Universității "Al. I. Cuza" din Iași ,1981     **Surveys in Combinatorics** ,1997     **Proceedings of the British Combinatorial Conference** ,1981     Subject Catalog Library of Congress,1981     **Surveys in Combinatorics, 1991** A. D. Keedwell, 1991-08-22 This volume contains nine invited papers that survey many areas of current research in combinatorics both on the theoretical and practical side Several papers may be regarded as summarizing our present state of knowledge in a particular topic

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