

Non-Archimedean Analysis:
Quantum Paradoxes, Dynamical Systems and
Biological Models

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Non Archimedean Analysis Quantum Paradoxes Dynamical Systems And Biological Models

M. Berz, Khodr Shamseddine



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Khrennikov, 2013-03-07 *Natur non facit saltus* This book is devoted to the fundamental problem which arises continuously in the process of the human investigation of reality the role of a mathematical apparatus in a description of reality We pay our main attention to the role of number systems which are used or may be used in this process We shall show that the picture of reality based on the standard since the works of Galileo and Newton methods of real analysis is not the unique possible way of presenting reality in a human brain There exist other pictures of reality where other number fields are used as basic elements of a mathematical description In this book we try to build a p -adic picture of reality based on the fields of p -adic numbers \mathbb{Q}_p and corresponding analysis a particular case of so called non Archimedean analysis However this book must not be considered as only a book on p -adic analysis and its applications We study a much more extended range of problems Our philosophical and physical ideas can be realized in other mathematical frameworks which are not obliged to be based on p -adic analysis We shall show that many problems of the description of reality with the aid of real numbers are induced by unlimited applications of the so called Archimedean axiom

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Advances in p -adic and Non-Archimedean Analysis M. Berz, Khodr Shamseddine, 2010-02-17 This volume contains the proceedings of the Tenth International Conference on p -adic and Non Archimedean Analysis held at Michigan State University in East Lansing Michigan on June 30 July 3 2008 This volume contains a kaleidoscope of papers based on several of the more important talks presented at the meeting It provides a cutting edge connection to some of the most important recent developments in the field Through a combination of survey papers research articles and extensive references to earlier work this volume allows the reader to quickly gain an overview of current activity in the field and become acquainted

with many of the recent sub branches of its development *P-adic Deterministic and Random Dynamics* Andrei Y. Khrennikov, Marcus Nilsson, 2013-03-14 This book provides an overview of the theory of p -adic and more general non Archimedean dynamical systems The main part of the book is devoted to discrete dynamical systems It presents a model of probabilistic thinking on p -adic mental space based on ultrametric diffusion Coverage also details p -adic neural networks and their applications to cognitive sciences learning algorithms memory recalling **Pseudodifferential Operators and Wavelets over Real and p -adic Fields** Nguyen Minh Chuong, 2018-11-28 This monograph offers a self contained introduction to pseudodifferential operators and wavelets over real and p -adic fields Aimed at graduate students and researchers interested in harmonic analysis over local fields the topics covered in this book include pseudodifferential operators of principal type and of variable order semilinear degenerate pseudodifferential boundary value problems BVPs non classical pseudodifferential BVPs wavelets and Hardy spaces wavelet integral operators and wavelet solutions to Cauchy problems over the real field and the p -adic field *Ultrametric Functional Analysis* Bertin Diarra, 2005 With contributions by leading mathematicians this proceedings volume reflects the program of the Eighth International Conference on p -adic Functional Analysis held at Blaise Pascal University Clermont Ferrand France Articles in the book offer a comprehensive overview of research in the area A wide range of topics are covered including basic ultrametric functional analysis topological vector spaces measure and integration Choquet theory Banach and topological algebras analytic functions in particular in connection with algebraic geometry roots of rational functions and Frobenius structure in p -adic differential equations and q -ultrametric calculus The material is suitable for graduate students and researchers interested in number theory functional analysis and algebra *Ultrametric Functional Analysis* Wilhelmus Hendricus Schikhof, C. Perez-Garcia, Alain Escassut, 2003 This volume contains research articles based on lectures given at the Seventh International Conference on p -adic Functional Analysis The articles written by leading international experts provide a complete overview of the latest contributions in basic functional analysis Hilbert and Banach spaces locally convex spaces orthogonality inductive limits spaces of continuous functions strict topologies operator theory automatic continuity measure and integrations Banach and topological algebras summability methods and ultrametric spaces analytic functions meromorphic functions roots of rational functions characterization of injective holomorphic functions and Gelfand transforms in algebras of analytic functions differential equations Banach Hopf algebras Cauchy theory of Levi Civita fields finite differences weighted means p -adic dynamical systems and non Archimedean probability theory and stochastic processes The book is written for graduate students and research mathematicians It also would make a good reference source for those in related areas such as classical functional analysis complex analytic functions probability theory dynamical systems orthomodular spaces number theory and representations of p -adic groups *Derivatives* Espen Gaarder Haug, 2013-10-18 *Derivatives Models on Models* takes a theoretical and practical look at some of the latest and most important ideas behind derivatives pricing models In

each chapter the author highlights the latest thinking and trends in the area. A wide range of topics are covered including valuation methods on stocks paying discrete dividend, Asian options, American barrier options, Complex barrier options, reset options and electricity derivatives. The book also discusses the latest ideas surrounding finance like the robustness of dynamic delta hedging, option hedging, negative probabilities and space time finance. The accompanying CD ROM with additional Excel sheets includes the mathematical models covered in the book. The book also includes interviews with some of the world's top names in the industry and an insight into the history behind some of the greatest discoveries in quantitative finance. Interviewees include Clive Granger, Nobel Prize winner in Economics 2003 on Cointegration, Nassim Taleb on Black Swans, Stephen Ross on Arbitrage Pricing Theory, Emanuel Derman the Wall Street Quant, Edward Thorp on Gambling and Trading, Peter Carr the Wall Street Wizard of Option Symmetry and Volatility, Aaron Brown on Gambling, Poker and Trading, David Bates on Crash and Jumps, Andrei Khrennikov on Negative Probabilities, Elie Ayache on Option Trading and Modeling, Peter Jaeckel on Monte Carlo Simulation, Alan Lewis on Stochastic Volatility and Jumps, Paul Wilmott on Paul Wilmott, Knut Aase on Catastrophes and Financial Economics, Eduardo Schwartz the Yoga Master of Quantitative Finance, Bruno Dupire on Local and Stochastic Volatility Models.

Mathematical Reviews, 2005 *Algebraic Integrability of Nonlinear Dynamical Systems on Manifolds* A.K. Prykarpatsky, Igor' Vladimirovich Mikitiuk, 1998-06-30. Noting that their research is not yet completed, Prykarpatsky, mathematics U of Mining and Metallurgy Cracow, Poland, and mechanics and mathematics NAS Lviv, Ukraine, and Mykytiuk, mechanics and mathematics NAS and Lviv Polytechnic State U, Ukraine, describe some of the ideas of Lie algebra that underlie many of the comprehensive integrability theories of nonlinear dynamical systems on manifolds. For each case they analyze, they separate the basic algebraic essence responsible for the complete integrability and explore how it is also in some sense characteristic for all of them. They cover systems with homogeneous configuration spaces, geometric quantization structures on manifolds, algebraic methods of quantum statistical mechanics and their applications, and algebraic and differential geometric aspects related to infinite dimensional functional manifolds. They have not indexed their work.

Methods of Functional Analysis and Topology, 2007 **P-Adic Mathematical Physics** Zoran Rakic, Igor V. Volovich, 2006-04-06. The subject of this conference was recent developments in p-adic mathematical physics and related areas. The field of p-Adic mathematical physics was conceived in 1987 as a result of attempts to find non-Archimedean approaches to space-time at the Planck scale as well as to strings. Since then many applications of p-adic numbers and adeles in physics and related sciences have emerged. Some of them are p-adic and adelic string theory, p-adic and adelic quantum mechanics and quantum field theory, ultrametricity of spin glasses, biological and hierarchical systems, p-adic dynamical systems, p-adic probability theory, p-adic models of cognitive processes and cryptography as well as p-adic and adelic cosmology.

Quantum Theory Guillaume Adenier, 2007-12-10. The material in this new Springer publication has arisen from a conference devoted to the 80 years of the Copenhagen Interpretation and to the question of the relevance of the

Copenhagen interpretation for the present understanding of quantum mechanics The nature of quantum fluctuations in the form of Stochastic Electrodynamics and other approaches to stochastic quantum mechanics was among others a central topic discussed during the conference especially during debates

General physics, relativity, astronomy and mathematical physics and methods ,1999 *Theoretical and Mathematical Physics* ,2005 **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2001 Annales Mathématiques Blaise Pascal ,2000

Romanian Journal of Physics ,2005 **Mathematical Modelling of Wave Phenomena** Börje Nilsson,Louis Fishman,2006-05-12 This conference series intends to illuminate the relationship between different types of waves This second conference focused primarily on classical wave modeling of acoustic waves in solids and fluids electromagnetic waves as well as elastic wave modeling and both direct and inverse problems are addressed Topics included are 1 Classical linear wave propagation modeling analysis and computation general electromagnetic applications acoustics of fluids acoustics of solids 2 classical nonlinear wave propagation modeling analysis and computation 3 inverse scattering modeling gneral and electromagnetic imaging wood imaging seismic imaging 4 quantum and statistical mechanics 5 signal processing and analysis **Journal of Physics** ,2001

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