Ergebnisse der Mathematik und ihrer Grenzgebiete Band 87

Christian Berg Gunnar Forst

# Potential Theory on Locally Compact Abelian Groups



# **Potential Theory On Locally Compact Abelian Groups**

J. Bertoin, F. Martinelli, Y. Peres

# **Potential Theory On Locally Compact Abelian Groups:**

Potential Theory on Locally Compact Abelian Groups C. van den Berg,G. Forst,2012-12-06 Classical potential theory can be roughly characterized as the study of Newtonian potentials and the Laplace operator on the Euclidean space JR3 It was discovered around 1930 that there is a profound connection between classical potential 3 theory and the theory of Brownian motion in JR The Brownian motion is determined by its semigroup of transition probabilities the Brownian semigroup and the connection between classical potential theory and the theory of Brownian motion can be described analytically in the following way The Laplace operator is the infinitesimal generator for the Brownian semigroup and the Newtonian potential kernel is the integral of the Brownian semigroup with respect to time This connection between classical potential theory and the theory of Brownian motion led Hunt of Hunt 2 to consider general potential theories defined in terms of certain stochastic processes or equivalently in terms of certain semi groups of operators on spaces of functions The purpose of the present exposition is to study such general potential theories where the following aspects of classical potential theory are preserved in The theory is defined on a locally compact abelian group ii The theory is translation invariant in the sense that any translate of a potential or a harmonic function is again a potential respectively a harmonic function this property of classical potential theory can also be expressed by saying that the Laplace operator is a differential operator with constant co efficients

Potential Theory on Locally Compact Abelian Groups Christian Berg, Gunnar Forst, 1975 **Infinite-Dimensional Abelian Groups** Alexander Bendikov, 2011-04-20 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 30 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob **Probability** Measures on Locally Compact Groups H. Heyer, 2012-12-06 Probability measures on algebraic topological structures such as topological semi groups groups and vector spaces have become of increasing importance in recent years for probabilists interested in the structural aspects of the theory as well as for analysts aiming at applications within the scope of probability

theory In order to obtain a natural framework for a first systematic presentation of the most developed part of the work done in the field we restrict ourselves to prob ability measures on locally compact groups At the same time we stress the non Abelian aspect Thus the book is concerned with a set of problems which can be regarded either from the probabilistic or from the harmonic analytic point of view In fact it seems to be the synthesis of these two viewpoints the initial inspiration coming from probability and the refined techniques from harmonic analysis which made this newly established subject so fascinating The goal of the presentation is to give a fairly complete treatment of the central limit problem for probability measures on a locally compact group In analogy to the classical theory the discussion is centered around the infinitely divisible probability measures on the group and their relationship to the convergence of infinitesimal triangular systems **Structural Aspects** in the Theory of Probability Herbert Heyer, Gyula Pap, 2010 The book is conceived as a text accompanying the traditional graduate courses on probability theory An important feature of this enlarged version is the emphasis on algebraic topological aspects leading to a wider and deeper understanding of basic theorems such as those on the structure of continuous convolution semigroups and the corresponding processes with independent increments Fourier transformation the method applied within the settings of Banach spaces locally compact Abelian groups and commutative hypergroups is given an in depth discussion This powerful analytic tool along with the relevant facts of harmonic analysis make it possible to study certain properties of stochastic processes in dependence of the algebraic topological structure of their state spaces In extension of the first edition the new edition contains chapters on the probability theory of generalized convolution structures such as polynomial and Sturm Liouville hypergroups and on the central limit problem for groups such as tori p adic groups and solenoids Fundamentals of Classical Fourier Analysis Shashank Tiwari, 2025-02-20 Fundamentals of Classical Fourier Analysis is a comprehensive guide to understanding fundamental concepts techniques and applications of Fourier analysis in classical mathematics This book provides a thorough exploration of Fourier analysis from its historical origins to modern day applications offering readers a solid foundation in this essential area of mathematics Classical Fourier analysis has been a cornerstone of mathematics and engineering for centuries playing a vital role in solving problems in fields like signal processing differential equations and quantum mechanics We delve into the rich history of Fourier analysis tracing its development from Joseph Fourier's groundbreaking work to modern digital signal processing applications Starting with an overview of fundamental concepts and motivations behind Fourier analysis we introduce Fourier series and transforms exploring their properties convergence and applications We discuss periodic and non periodic functions convergence phenomena and important theorems such as Parseval's identity and the Fourier inversion theorem Throughout the book we emphasize both theoretical insights and practical applications providing a balanced understanding of Fourier analysis and its relevance to real world problems Topics include harmonic analysis orthogonal functions Fourier integrals and Fourier transforms with applications in signal processing data compression and partial differential equations Each chapter

includes examples illustrations and exercises to reinforce key concepts Historical insights into key mathematicians and scientists contributions are also provided Whether you are a student researcher or practitioner in mathematics engineering or related fields Fundamentals of Classical Fourier Analysis is a comprehensive and accessible resource for mastering Brownian Motion And Potential Theory, Modern And Classical Palle Fourier analysis principles and techniques Jorgensen, Murali Rao, James Tian, 2024-10-29 In this book potential theory is presented in an inclusive and accessible manner with the emphasis reaching from classical to modern from analytic to probabilistic and from Newtonian to abstract or axiomatic potential theory including Dirichlet spaces The reader is guided through stochastic analysis featuring Brownian motion in its early chapters to potential theory in its latter sections This path covers the following themes martingales diffusion processes semigroups and potential operators analysis of super harmonic functions Dirichlet problems balayage boundaries and Green functions The wide range of applications encompasses random walk models especially reversible Markov processes and statistical inference in machine learning models However the present volume considers the analysis from the point of view of function space theory using Dirchlet energy as an inner product This present volume is an expanded and revised version of an original set of lectures in the Aarhus University Mathematics Institute Lecture Note Series Minicourse on Stochastic Partial Differential Equations Robert C. Dalang, 2009 This title contains lectures that offer an introduction to modern topics in stochastic partial differential equations and bring together experts whose research is centered on the interface between Gaussian analysis stochastic analysis and stochastic PDEs Lectures on Probability Theory and Statistics J. Bertoin, F. Martinelli, Y. Peres, 2004-09-03 Part I Bertoin J Subordinators Examples and Applications Foreword Elements on subordinators Regenerative property Asymptotic behaviour of last passage times Rates of growth of local time Geometric properties of regenerative sets Burgers equation with Brownian initial velocity Random covering L vy processes Occupation times of a linear Brownian motion Part II Martinelli F Lectures on Glauber Dynamics for Discrete Spin Models Introduction Gibbs Measures of Lattice Spin Models The Glauber Dynamics One Phase Region Boundary Phase Transitions Phase Coexistence Glauber Dynamics for the Dilute Ising Model Part III Peres Yu Probability on Trees An Introductory Climb Preface Basic Definitions and a Few Highlights Galton Watson Trees General percolation on a connected graph The first Moment method Quasi independent Percolation The second Moment Method Electrical Networks Infinite Networks The Method of Random Paths Transience of Percolation Clusters Subperiodic Trees The Random Walks RW lambda Capacity Intersection Equivalence Reconstruction for the Ising Model on a Tree Unpredictable Paths in Z and EIT in Z3 Tree Indexed Processes Recurrence for Tree Indexed Markov Chains Dynamical Pecsolation Stochastic Domination Between Trees Fractal Geometry and Stochastics III Christoph Bandt, Umberto Mosco, Martina Zähle, 2012-12-06 Fractal geometry is used to model complicated natural and technical phenomena in various disciplines like physics biology finance and medicine

Since most convincing models contain an element of randomness stochastics enters the area in a natural way This book

documents the establishment of fractal geometry as a substantial mathematical theory As in the previous volumes which appeared in 1998 and 2000 leading experts known for clear exposition were selected as authors They survey their field of expertise emphasizing recent developments and open problems Main topics include multifractal measures dynamical systems stochastic processes and random fractals harmonic analysis on fractals Selecta Heinz Bauer, 2012-05-24 Heinz Bauer 1928 2002 was one of the prominent figures in Convex Analysis and Potential Theory in the second half of the 20th century The Bauer minimum principle and Bauer's work on Silov's boundary and the Dirichlet problem are milestones in convex analysis Axiomatic potential theory owes him what is known by now as Bauer harmonic spaces These Selecta collect more than twenty of Bauer's research papers including his seminal papers in Convex Analysis and Potential Theory Above his research contributions Bauer is best known for his art of writing survey articles Five of his surveys on different topics are reprinted in this volume Among them is the well known article Approximation and Abstract Boundary for which he was awarded with the Chauvenet Price by the American Mathematical Association in 1980 Fractional Differential Equations Anatoly Kochubei, Yuri Luchko, 2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This second volume collects authoritative chapters covering the mathematical theory of fractional calculus including ordinary and partial differential equations of fractional order inverse problems and evolution equations Course In Analysis, A - Vol V: Functional Analysis, Some Operator Theory, Theory Of Distributions Niels Jacob, Kristian P Evans, 2020-01-22 The book is an advanced textbook and a reference text in functional analysis in the wide sense It provides advanced undergraduate and graduate students with a coherent introduction to the field i e the basic principles and leads them to more demanding topics such as the spectral theorem Choquet theory interpolation theory analysis of operator semigroups Hilbert Schmidt operators and Hille Tamarkin operators topological vector spaces and distribution theory fundamental solutions or the Schwartz kernel theorem All topics are treated in great detail and the text provided is suitable for self studying the subject This is enhanced by more than 270 problems solved in detail At the same time the book is a reference text for any working mathematician needing results from functional analysis operator theory or the theory of distributions Embedded as Volume V in the Course of Analysis readers will have a self contained treatment of a key area in modern mathematics A detailed list of references invites to further studies Processes and Infinitely Divisible Distributions Sato Ken-Iti, 1999 <u>Pseudo Differential Operators And Markov Processes</u>, Volume Iii: Markov Processes And Applications Niels Jacob, 2005-06-14 This volume concentrates on how to construct a Markov process by starting with a suitable pseudo differential operator Feller processes Hunt processes associated with Lp sub Markovian semigroups and processes constructed by using the Martingale problem are at the center of the considerations. The potential theory of these processes is further developed and applications are discussed. Due to the nonlocality of the generators the processes are jump processes and their relations to Levy processes are investigated Special

emphasis is given to the symbol of a process a notion which generalizes that of the characteristic exponent of a Levy process and provides a natural link to pseudo differential operator theory a Pseudo Differential Operators & Markov Processes Niels Jacob, 2005 This volume concentrates on how to construct a Markov process by starting with a suitable pseudo differential operator Feller processes Hunt processes associated with Lp sub Markovian semigroups and processes constructed by using the Martingale problem are at the center of the considerations. The potential theory of these processes is further developed and applications are discussed Due to the non locality of the generators the processes are jump processes and their relations to Levy processes are investigated Special emphasis is given to the symbol of a process a notion which generalizes that of the characteristic exponent of a Levy process and provides a natural link to pseudo differential Classical Banach Spaces I J. Lindenstrauss, L. Tzafriri, 2013-11-11 The appearance of Banach's book 8 in 1932 signified the beginning of a syste matic study of normed linear spaces which have been the subject of continuous research ever since In the sixties and especially in the last decade the research activity in this area grew considerably As a result Ban ach space theory gained very much in depth as well as in scope Most of its well known classical problems were solved many interesting new directions were developed and deep connections between Banach space theory and other areas of mathematics were established The purpose of this book is to present the main results and current research directions in the geometry of Banach spaces with an emphasis on the study of the structure of the classical Banach spaces that is C K and Lip and related spaces We did not attempt to write a comprehensive survey of Banach space theory or even only of the theory of classical Banach spaces since the amount of interesting results on the subject makes such a survey practically impossible

The Mathematics of Errors Nicolas Bouleau, 2022-02-23 The Mathematics of Errors presents an original rigorous and systematic approach to the calculus of errors targeted at both the engineer and the mathematician Starting from Gauss's original point of view the book begins as an introduction suitable for graduate students leading to recent developments in stochastic analysis and Malliavin calculus including contributions by the author Later chapters aimed at a more mature audience require some familiarity with stochastic calculus and Dirichlet forms Sensitivity analysis in particular plays an important role in the book Detailed applications in a range of fields such as engineering robotics statistics financial mathematics climate science or quantum mechanics are discussed through concrete examples Throughout the book error analysis is presented in a progressive manner motivated by examples and appealing to the reader's intuition By formalizing the intuitive concept of error and richly illustrating its scope for application this book provides readers with a blueprint to apply advanced mathematics in practical settings As such it will be of immediate interest to engineers and scientists whilst providing mathematicians with an original presentation Nicolas Bouleau has directed the mathematics center of the Ecole des Ponts ParisTech for more than ten years He is known for his theory of error propagation in complex models After a degree in engineering and architecture he decided to pursue a career in mathematics under the influence of Laurent

Schwartz He has also written on the production of knowledge sustainable economics and mathematical models in finance Nicolas Bouleau is a recipient of the Prix Montyon from the French Academy of Sciences Pseudodifferential Equations Over Non-Archimedean Spaces W. A. Zúñiga-Galindo, 2017-01-08 Focusing on p adic and adelic analogues of pseudodifferential equations this monograph presents a very general theory of parabolic type equations and their Markov processes motivated by their connection with models of complex hierarchic systems The Gelfand Shilov method for constructing fundamental solutions using local zeta functions is developed in a p adic setting and several particular equations are studied such as the p adic analogues of the Klein Gordon equation Pseudodifferential equations for complex valued functions on non Archimedean local fields are central to contemporary harmonic analysis and mathematical physics and their theory reveals a deep connection with probability and number theory. The results of this book extend and complement the material presented by Vladimirov Volovich and Zelenov 1994 and Kochubei 2001 which emphasize spectral theory and evolution equations in a single variable and Albeverio Khrennikov and Shelkovich 2010 which deals mainly with the theory and applications of p adic wavelets Time, Quantum and Information Lutz Castell, Otfried Ischebeck, 2013-04-17 This publication centers on the extraordinary ideas in and concepts of physics of th Carl Friedrich von Weizs cker At the time of his 90 birthday on June 28 2002 it seems the right moment to try such a survey The themes of two Festschrifts for CarI th th Friedrich von Weizs cker on the occasion of his 60 and 70 birthdays E Scheibe and G Suessmann eds Einheit und Vielheit and K Meyer Abich ed Physik Philosophie und Politik were his unique capability to encompass physics philosophy and politics He may be more known publicly today for his efforts for containment of the Cold War nuclear threat for the abolition of war as an instrument of international politics for the social responsibility of scientists and for the Conciliar Process of the Churches for Justice Peace and the Integrity of Creation But physics has been his primary professional vocation and has always remained in the center of his thought and life But even in light of the physics focus of this book it would not do justice to Carl Friedrich von Weizs cker to re strict his achievements in physics to efforts only accessible to professionals The contributions in Part 1 show how his very concentration on physics has led him to take an active part in problems of politics social change philosophy and religion

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