

Lecture Notes in Physics

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Irreversibility and Causality

Semigroups
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Irreversibility And Causality Semigroups And Rigged Hilbert Spaces

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Irreversibility and Causality Arno Bohm, Heinz-Dietrich Doebner, Piotr Kielanowski, 2014-01-15 **Irreversibility and Causality** Heinz-Dietrich Doebner, Piotr Kielanowski, 1998-05-05 A Selection of Articles Presented at the 21st International Colloquium on Group Theoretical Methods in Physics ICGTMP at Goslar Germany July 16 21 1996 **Superstrings, P-branes and M-theory**, **Wavelets, Multiscale Systems and Hypercomplex Analysis** Daniel Alpay, 2006-08-06 This volume contains a selection of papers on the topics of Clifford analysis and wavelets and multiscale analysis the latter being understood in a very wide sense The theory of wavelets is mathematically rich and has many practical applications Most of the articles have been written on invitation and they provide a unique collection of material particularly relating to Clifford analysis and the theory of wavelets A Philosophical Approach to Quantum Field Theory Hans Christian Öttinger, 2018-01-11 This text presents an intuitive and robust mathematical image of fundamental particle physics based on a novel approach to quantum field theory which is guided by four carefully motivated metaphysical postulates In particular the book explores a dissipative approach to quantum field theory which is illustrated for scalar field theory and quantum electrodynamics and proposes an attractive explanation of the Planck scale in quantum gravity Offering a radically new perspective on this topic the book focuses on the conceptual foundations of quantum field theory and ontological questions It also suggests a new stochastic simulation technique in quantum field theory which is complementary to existing ones Encouraging rigor in a field containing many mathematical subtleties and pitfalls this text is a helpful companion for students of physics and philosophers interested in quantum field theory and it allows readers to gain an intuitive rather than a formal understanding **Trends In Quantum Mechanics - Proceedings Of The International Symposium** Heinz-dietrich Doebner, S Twareque Ali, Michael Keyl, Reinhard F Werner, 2000-01-22 Contents Relationships Between q Deformations Typical Length Scales and Lower Measurability Bounds E Papp Description of Kerr States via Deformed Bosons A I Solomon et al Quantum Mechanics on Phase Spaces $\mathbb{Z}_N \times \mathbb{Z}_N$ J Tolar Continuous Fuzzy Measurement of Energy Realization and Application J Audretsch Decoherence and the Final Pointer Basis M Castagnino R Laura On Hybrid Dynamics of the Copenhagen Dichotomic World L Di si Storage and Read Out of Quantum State Information via Interference M Freyberger et al Is There a Gravitational Collapse of the Wave Packet H J Schmidt Operators and Maps Affiliated to EPR Channels A Uhlmann Reconstruction of Quantum States and Its Conceptual Implications S Weigert Geometric Formulation of Nonlinear Quantum Mechanics for Density Matrices P B na Fundamental Principles of Quantum Mechanics and Non Linearity R Cirelli et al Nonlinear von Neumann Type Equations M Czachor et al Some Aspects of Nonlinearity and Gauge Transformation in Quantum Mechanics G A Goldin On a Theorem of Ashtekar and Lewandowski in the Mathematical Framework of Canonical Quantization in Quantum Gravity H Baumg rtel The Fuzzy Super Sphere and Field Theory H Grosse G Reiter Quantum Fields Along Worldlines M Keyl Field Theory Revisited C Piron and other papers Readership Mathematical physicists Keywords

Mathematics Of Open Quantum Systems, The: Dissipative And Non-unitary Representations And Quantum Measurements Konstantin A Makarov, Eduard R Tsekanovskii, 2021-12-24 This book presents new developments in the open quantum systems theory with emphasis on applications to the frequent measurement theory In the first part of the book the uniqueness theorems for the solutions to the restricted Weyl commutation relations braiding unitary groups and semi groups of contractions are discussed The major theme involves an intrinsic characterization of the simplest symmetric operator solutions to the Heisenberg uncertainty relations the problem posed by J rgsen and Muhly followed by the proof of the uniqueness theorems for the simplest solutions to the restricted Weyl commutation relations The detailed study of unitary invariants of the corresponding dissipative and symmetric operators opens up a look at the classical Stone von Neumann uniqueness theorem from a new angle and provides an extended version of the uniqueness result relating various realizations of a differentiation operator on the corresponding metric graphs The second part of the book is devoted to mathematical problems of the quantum measurements under continuous monitoring Among the topics discussed are the complementarity of the Quantum Zeno effect and Exponential Decay scenario in frequent quantum measurements and a rigorous treatment within continuous monitoring paradigm of the celebrated double slit experiment where the renowned exclusive and interference measurement alternatives approach in quantum theory is presented in a way that is accessible for mathematicians One of the striking applications of the generalized 1 stable central limit theorem is the mathematical evidence of exponential decay of unstable states of the quantum pendulum under continuous monitoring

Coherent States, Wavelets, and Their Generalizations Syed Twareque Ali, Jean-Pierre Antoine, Jean-Pierre Gazeau, 2013-10-30 This second edition is fully updated covering in particular new types of coherent states the so called Gazeau Klauder coherent states nonlinear coherent states squeezed states as used now routinely in quantum optics and various generalizations of wavelets wavelets on manifolds curvelets shearlets etc In addition it contains a new chapter on coherent state quantization and the related probabilistic aspects As a survey of the theory of coherent states wavelets and some of their generalizations it emphasizes mathematical principles subsuming the theories of both wavelets and coherent states into a single analytic structure The approach allows the user to take a classical like view of quantum states in physics Starting from the standard theory of coherent states over Lie groups the authors generalize the formalism by associating coherent states to group representations that are square integrable over a homogeneous space a further step allows one to dispense with the group context altogether In this context wavelets can be generated from coherent states of the affine group of the real line and higher dimensional wavelets arise from coherent states of other groups The unified background makes transparent an entire range of properties of wavelets and coherent states Many concrete examples such as coherent states from semisimple Lie groups Gazeau Klauder coherent states coherent states for the relativity groups and several kinds of wavelets are discussed in detail The book concludes with a palette of potential applications from the quantum physically oriented like the quantum

classical transition or the construction of adequate states in quantum information to the most innovative techniques to be used in data processing. Intended as an introduction to current research for graduate students and others entering the field, the mathematical discussion is self-contained. With its extensive references to the research literature, the first edition of the book is already a proven compendium for physicists and mathematicians active in the field and with full coverage of the latest theory and results, the revised second edition is even more valuable.

Exploratory Causal Analysis with Time Series Data James M. McCracken, 2016-03-31 Many scientific disciplines rely on observational data of systems for which it is difficult or impossible to implement controlled experiments. Data analysis techniques are required for identifying causal information and relationships directly from such observational data. This need has led to the development of many different time series causality approaches and tools including transfer entropy, convergent cross mapping (CCM) and Granger causality statistics. A practicing analyst can explore the literature to find many proposals for identifying drivers and causal connections in time series data sets. Exploratory causal analysis (ECA) provides a framework for exploring potential causal structures in time series data sets and is characterized by a myopic goal to determine which data series from a given set of series might be seen as the primary driver. In this work, ECA is used on several synthetic and empirical data sets and it is found that all of the tested time series causality tools agree with each other and intuitive notions of causality for many simple systems but can provide conflicting causal inferences for more complicated systems. It is proposed that such disagreements between different time series causality tools during ECA might provide deeper insight into the data than could be found otherwise.

Compendium of Quantum Physics Daniel Greenberger, Klaus Hentschel, Friedel Weinert, 2009-07-25 With contributions by leading quantum physicists, philosophers and historians, this comprehensive A to Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment. It covers technical and interpretational aspects alike and includes both traditional and new concepts, making it an indispensable resource for concise up-to-date information about the many facets of quantum physics.

Open Quantum Systems Ángel Rivas, Susana F. Huelga, 2011-10-01 In this volume, the fundamental theory of open quantum systems is revised in the light of modern developments in the field. A unified approach to the quantum evolution of open systems is presented by merging concepts and methods traditionally employed by different communities such as quantum optics, condensed matter, chemical physics and mathematical physics. The mathematical structure and the general properties of the dynamical maps underlying open system dynamics are explained in detail. The microscopic derivation of dynamical equations including both Markovian and non-Markovian evolutions is also discussed. Because of the step-by-step explanations, this work is a useful reference to novices in this field. However, experienced researchers can also benefit from the presentation of recent results.

BMS Particles in Three Dimensions Blagoje Oblak, 2017-08-01 This thesis presents the state of the art in the study of Bondi-Metzner-Sachs (BMS) symmetry and its applications in the simplified setting of three dimensions. It focuses on presenting all the background

material in a pedagogical and self contained manner to enable readers to fully appreciate the original results that have been obtained while learning a number of fundamental concepts in the field along the way This makes it a highly rewarding read and a perfect starting point for anybody with a serious interest in the four dimensional problem Statistical Mechanics of Biocomplexity D. Reguera,J.M.G. Vilar,J.M. Rubi,1999-10-19 This book demonstrates the usefulness of tools from statistical mechanics for biology It includes the new tendencies in topics like membranes vesicles microtubules molecular motors DNA protein folding phase transitions in biological systems evolution population dynamics neural systems and biological oscillators with special emphasis on the importance of statistical mechanics in their development The book addresses researchers and graduate students **Quantum Bio-informatics III** Luigi Accardi,Wolfgang Freudenber,gs,Masanori Ohya,2010 The purpose of this proceedings volume is to look for interdisciplinary bridges in mathematics physics information and life sciences in particular research for new paradigms for information and life sciences on the basis of quantum theory The main areas in this volume are all related to one of the following subjects 1 quantum information 2 bio informatics and 3 the interrelation between 1 and 2 *Group Theoretical Methods in Physics* G.S Pogosyan,L.E Vincent,K.B Wolf,2005-05-01 Symmetry is permeating our understanding of nature Group theoretical methods of intrinsic interest to mathematics have expanded their applications from physics to chemistry and biology The ICGTMP Colloquia maintain the communication among the many branches into which this endeavor has bloomed Lie group and representation theory special functions foundations of quantum mechanics and elementary particle nuclear atomic and molecular physics are among the traditional subjects More recent areas include supersymmetry superstrings and quantum gravity integrability nonlinear systems and quantum chaos semigroups time asymmetry and resonances condensed matter and statistical physics Topics such as linear and nonlinear optics quantum computing discrete systems and signal analysis have only in the last few years become part of the group theorists turf In *Group Theoretical Methods in Physics* readers will find both review contributions that distill the state of the art in a broad field and articles pointed to specific problems in many cases preceding their formal publication in the journal literature *Partial Inner Product Spaces* J-P Antoine,Camillo Trapani,2009-12-08 Partial Inner Product PIP Spaces are ubiquitous e g Rigged Hilbert spaces chains of Hilbert or Banach spaces such as the Lebesgue spaces L_p over the real line etc In fact most functional spaces used in quantum physics and in signal processing are of this type The book contains a systematic analysis of PIP spaces and operators defined on them Numerous examples are described in detail and a large bibliography is provided Finally the last chapters cover the many applications of PIP spaces in physics and in signal image processing respectively As such the book will be useful both for researchers in mathematics and practitioners of these disciplines **The Ultimate Constituents of the Material World** Meinard Kuhlmann,2013-05-02 Today quantum field theory QFT the mathematical and conceptual framework for contemporary elementary particle physics is the best starting point for analysing the fundamental building blocks of the material world QFT if taken seriously in its metaphysical

implications yields a picture of the world that is at variance with central classical conceptions The core of Kuhlmann's investigation consists in the analysis of various ontological interpretations of QFT e.g. substance ontologies as well as a process ontological approach Eventually Kuhlmann proposes a dispositional trope ontology according to which particularized properties and not things are the most basic entities in terms of which all other entities are to be analysed e.g. as bundles of properties This book was chosen for the 2009ontos Award for research on analytical ontology and metaphysics by the German Society for Analytical Philosophy

Frontiers in Quantum Methods and Applications in Chemistry and Physics M.A.C. Nascimento, Jean Maruani, Erkki J. Brändas, Gerardo Delgado-Barrio, 2015-04-02 This edited multi author volume contains 14 selected peer reviewed contributions based on the presentations given at the 18th International Workshop on Quantum Systems in Chemistry Physics and Biology QSCP XVIII held at Casa da Cultura de Paraty Rio de Janeiro Brazil in December 2013 It is divided into several sections written by leaders in the respective fields of quantum methodology applied to atomic molecular and condensed matter systems each containing the most relevant material based on related topics Recent advances and state of the art developments in the quantum theory of atomic molecular and condensed matter systems including bio and nano structures are presented

X-Ray Spectroscopy in Astrophysics Jan van Paradijs, Johan A.M. Bleeker, 1999-02-17 This volume contains a comprehensive treatment of X ray spectroscopy as applied in astrophysics It is presented in the form of extensive notes of lectures given by seven distinguished scientists at the Tenth Summer School of the European Astrophysics Doctoral Network The subjects covered are basic line and continuum radiation processes in X ray and gamma ray astronomy atomic physics of collision and radiation dominated plasmas X ray spectroscopic observations with ASCA and BeppoSAX future X ray spectroscopy missions X ray optics and X ray spectroscopy instrumentation The book which will appeal to both researchers and graduate students is timely in view of the scheduled launches of the big X ray observatories AXAF and XMM in 1999

Generalized Functions, Operator Theory, and Dynamical Systems Ioannis Antoniou, Gunter Lumer, 2021-02-25 Nobel prize winner Ilya Prigogine writes in his preface Irreversibility is a challenge to mathematics which leads to generalized functions and to an extension of spectral analysis beyond the conventional Hilbert space theory Meeting this challenge required new mathematical formulations obstacles met and largely overcome thanks primarily to the contributors to this volume This compilation of works grew out of material presented at the Hyperfunctions Operator Theory and Dynamical Systems symposium at the International Solvay Institutes for Physics and Chemistry in 1997 The result is a coherently organized collective work that moves from general widely applicable mathematical methods to ever more specialized physical applications Presented in two sections part one describes Generalized Functions and Operator Theory part two addresses Operator Theory and Dynamical Systems The interplay between mathematics and physics is now more necessary than ever and more difficult than ever given the increasing complexity of theories and methods

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