Quantum Dynamics: Models and Mathematics

Edited by Ludwig Streit

Quantum Dynamics Models Mathematics

Myint Swe Khine,Issa M. Saleh

Quantum Dynamics Models Mathematics:

   Quantum Dynamics Ludwig Streit,1976   **Quantum Dynamics: Models and Mathematics** Ludwig Streit,2013-03-13 The contributions to this volume deal with topics ranging over constructive and general quantum field theory and related algebraic problems non renormalizable models equilibrium sta tistical mechanics critical phenomena and nonlinear equations modelling the onset of turbulence They are based on lectures intended to provide the 1975 1976 research group Mathematical Problems of Quantum Dynamics at the Centre for Interdisciplinary Research ZiF of Bielefeld University with an input reflecting important recent develop ments and presented by leading experts in the pertinent fields of research They further reflect a situation of unusually active and fruit ful exchange not only between various specializations of theoretical physics which deal with the specific problems of large systems but also of a lively two way interaction with mathematics which stimulates and furthers the progress of both disciplines Thanks are due to the contributors to the Preparatory Committee H Behncke P Blanchard K Hepp O Steinmann A S Wightman to the University of Bielefeld for the spon sorship of these lectures to the directors and staff of ZiF who made them possible and to Miss V C Fulland and Miss M Kamper for their calm and competent production of the manuscript   **Quantum Dynamics for Classical Systems** Fabio Bagarello,2012-11-05 Introduces number operators with a focus on the relationship between quantum mechanics and social science Mathematics is increasingly applied to classical problems in finance biology economics and elsewhere Quantum Dynamics for Classical Systems describes how quantum tools the number operator in particular can be used to create dynamical systems in which the variables are operator valued functions and whose results explain the presented model The book presents mathematical results and their applications to concrete systems and discusses the methods used results obtained and techniques developed for the proofs of the results The central ideas of number operators are illuminated while avoiding excessive technicalities that are unnecessary for understanding and learning the various mathematical applications The presented dynamical systems address a variety of contexts and offer clear analyses and explanations of concluded results Additional features in Quantum Dynamics for Classical Systems include Applications across diverse fields including stock markets and population migration as well as a unique quantum perspective on these classes of models Illustrations of the use of creation and annihilation operators for classical problems Examples of the recent increase in research and literature on the many applications of quantum tools in applied mathematics Clarification on numerous misunderstandings and misnomers while shedding light on new approaches in the field Quantum Dynamics for Classical Systems is an ideal reference for researchers professionals and academics in applied mathematics economics physics biology and sociology The book is also excellent for courses in dynamical systems quantum mechanics and mathematical models   *Quantum Dynamics: Models and Mathematics* Ludwig Streit,1976-12-15 The contributions to this volume deal with topics ranging over constructive and general quantum field theory and related algebraic problems non renormalizable models equilibrium sta tistical mechanics

critical phenomena and nonlinear equations modelling the onset of turbulence They are based on lectures intended to provide the 1975 1976 research group Mathematical Problems of Quantum Dynamics at the Centre for Interdisciplinary Research ZiF of Bielefeld University with an input reflecting important recent develop ments and presented by leading experts in the pertinent fields of research They further reflect a situation of unusually active and fruit ful exchange not only between various specializations of theoretical physics which deal with the specific problems of large systems but also of a lively two way interaction with mathematics which stimulates and furthers the progress of both disciplines Thanks are due to the contributors to the Preparatory Committee H Behncke P Blanchard K Hepp O Steinmann A S Wightman to the University of Bielefeld for the spon sorship of these lectures to the directors and staff of ZiF who made them possible and to Miss V C Fulland and Miss M Kamper for their calm and competent production of the manuscript *Quantum Dynamics* Ludwig Streit,1976 **QUANTUM DYNAMICS: MODELS AND MATHEMATICS- LECTURES DELIVERED AT A SYMPOSIUM-1975** , **Quantum Dynamics** ,1975 **From Quantum to Classical Molecular Dynamics** Christian Lubich,2008 Quantum dynamics of molecules poses a variety of computational challenges that are presently at the forefront of research efforts in numerical analysis in a number of application areas high dimensional partial differential equations multiple scales highly oscillatory solutions and geometric structures such as symplecticity and reversibility that are favourably preserved in discretizations This text addresses such problems in quantum mechanics from the viewpoint of numerical analysis illustrating them to a large extent on intermediate models between the Schrodinger equation of full many body quantum dynamics and the Newtonian equations of classical molecular dynamics The fruitful interplay between quantum dynamics and numerical analysis is emphasized **Quantum Dynamics** Ludwig Streit,1976 *Modeling and Computational Methods for Multi-scale Quantum Dynamics and Kinetic Equations* ,2013 This dissertation consists of two parts quantum transitions Part 1 and hydrodynamic limits of kinetic equations Part 2 In both parts we investigate the inner mathematical connections between equations for different physics at different scales and use these connections to design efficient computational methods for multi scale problems Despite its numerous applications in chemistry and physics the mathematics of quantum transition is not well understood Using the Wigner transformation we derive semi classical models in phase space for two problems the dynamics of electrons in crystals near band crossing points surface hopping of quantum molecules when the Born Oppenheimer approximation breaks down In both cases particles may jump between states with comparable energies Our models can capture the transition rates for such processes We provide analytic analysis of and numerical methods for our models demonstrated by explicit examples The second part is to construct numerical methods for kinetic equation that are efficient in the hydrodynamic regime Asymptotically the kinetic equations reduce to fluid dynamics described by the Euler or Navier Stokes equations in the fluid regime Numerically the Boltzmann equation is still hard to handle in the hydrodynamic regime due to the stiff collision term We review the theoretical work that links the two sets of equations and

present our asymptotic preserving numerical solvers for the Boltzmann equation that naturally capture the asymptotic limits in the hydrodynamic regime We also extend our methods to the case of multi species systems **Introduction to Quantum Control and Dynamics** Domenico D'Alessandro,2021-07-28 The introduction of control theory in quantum mechanics has created a rich new interdisciplinary scientific field which is producing novel insight into important theoretical questions at the heart of quantum physics Exploring this emerging subject Introduction to Quantum Control and Dynamics presents the mathematical concepts and fundamental physics behind the analysis and control of quantum dynamics emphasizing the application of Lie algebra and Lie group theory To advantage students instructors and practitioners and since the field is highly interdisciplinary this book presents an introduction with all the basic notions in the same place The field has seen a large development in parallel with the neighboring fields of quantum information computation and communication The author has maintained an introductory level to encourage course use After introducing the basics of quantum mechanics the book derives a class of models for quantum control systems from fundamental physics It examines the controllability and observability of quantum systems and the related problem of quantum state determination and measurement The author also uses Lie group decompositions as tools to analyze dynamics and to design control algorithms In addition he describes various other control methods and discusses topics in quantum information theory that include entanglement and entanglement dynamics Changes to the New Edition New Chapter 4 Uncontrollable Systems and Dynamical Decomposition New section on quantum control landscapes A brief discussion of the experiments that earned the 2012 Nobel Prize in Physics Corrections and revised concepts are made to improve accuracy Armed with the basics of quantum control and dynamics readers will invariably use this interdisciplinary knowledge in their mathematics physics and engineering work **Mathematical Models of Information and Stochastic Systems** Philipp Kornreich,2018-10-03 From ancient soothsayers and astrologists to today s pollsters and economists probability theory has long been used to predict the future on the basis of past and present knowledge Mathematical Models of Information and Stochastic Systems shows that the amount of knowledge about a system plays an important role in the mathematical models used to foretell the future of the system It explains how this known quantity of information is used to derive a system s probabilistic properties After an introduction the book presents several basic principles that are employed in the remainder of the text to develop useful examples of probability theory It examines both discrete and continuous distribution functions and random variables followed by a chapter on the average values correlations and covariances of functions of variables as well as the probabilistic mathematical model of quantum mechanics The author then explores the concepts of randomness and entropy and derives various discrete probabilities and continuous probability density functions from what is known about a particular stochastic system The final chapters discuss information of discrete and continuous systems time dependent stochastic processes data analysis and chaotic systems and fractals By building a range of probability distributions based on prior knowledge of the problem this classroom tested text

illustrates how to predict the behavior of diverse systems A solutions manual is available for qualifying instructors

Quantum-Like Models for Information Retrieval and Decision-Making Diederik Aerts,Andrei Khrennikov,Massimo Melucci,Bourama Toni,2019-09-09 Recent years have been characterized by tremendous advances in quantum information and communication both theoretically and experimentally In addition mathematical methods of quantum information and quantum probability have begun spreading to other areas of research beyond physics One exciting new possibility involves applying these methods to information science and computer science without direct relation to the problems of creation of quantum computers The aim of this Special Volume is to encourage scientists especially the new generation master and PhD students working in computer science and related mathematical fields to explore novel possibilities based on the mathematical formalisms of quantum information and probability The contributing authors who hail from various countries combine extensive quantum methods expertise with real world experience in application of these methods to computer science The problems considered chiefly concern quantum information probability based modeling in the following areas information foraging interactive quantum information access deep convolutional neural networks decision making quantum dynamics open quantum systems and theory of contextual probability The book offers young scientists students PhD postdocs an essential introduction to applying the mathematical apparatus of quantum theory to computer science information retrieval and information processes   New Handbook of Mathematical Psychology: Volume 2, Modeling and Measurement William H. Batchelder,Hans Colonius,Ehtibar N. Dzhafarov,2018-09-27 The field of mathematical psychology began in the 1950s and includes both psychological theorizing in which mathematics plays a key role and applied mathematics motivated by substantive problems in psychology Central to its success was the publication of the first Handbook of Mathematical Psychology in the 1960s The psychological sciences have since expanded to include new areas of research and significant advances have been made in both traditional psychological domains and in the applications of the computational sciences to psychology Upholding the rigor of the original Handbook the New Handbook of Mathematical Psychology reflects the current state of the field by exploring the mathematical and computational foundations of new developments over the last half century The second volume focuses on areas of mathematics that are used in constructing models of cognitive phenomena and decision making and on the role of measurement in psychology   Quasi-Exactly Solvable Models in Quantum Mechanics A.G Ushveridze,2017-07-12 Exactly solvable models that is models with explicitly and completely diagonalizable Hamiltonians are too few in number and insufficiently diverse to meet the requirements of modern quantum physics Quasi exactly solvable QES models whose Hamiltonians admit an explicit diagonalization only for some limited segments of the spectrum provide a practical way forward Although QES models are a recent discovery the results are already numerous Collecting the results of QES models in a unified and accessible form Quasi Exactly Solvable Models in Quantum Mechanics provides an invaluable resource for physicists using quantum mechanics and applied mathematicians dealing with linear

differential equations By generalizing from one dimensional QES models the expert author constructs the general theory of QES problems in quantum mechanics He describes the connections between QES models and completely integrable theories of magnetic chains determines the spectra of QES Schr dinger equations using the Bethe Iansatz solution of the Gaudin model discusses hidden symmetry properties of QES Hamiltonians and explains various Lie algebraic and analytic approaches to the problem of quasi exact solubility in quantum mechanics Because the applications of QES models are very wide such as for investigating non perturbative phenomena or as a good approximation to exactly non solvable problems researchers in quantum mechanics related fields cannot afford to be unaware of the possibilities of QES models **Coupled Mathematical Models for Physical and Biological Nanoscale Systems and Their Applications** Luis L. Bonilla,Efthimios Kaxiras,Roderick Melnik,2018-06-20 This volume gathers selected contributions from the participants of the Banff International Research Station BIRS workshop Coupled Mathematical Models for Physical and Biological Nanoscale Systems and their Applications who explore various aspects of the analysis modeling and applications of nanoscale systems with a particular focus on low dimensional nanostructures and coupled mathematical models for their description Due to the vastness novelty and complexity of the interfaces between mathematical modeling and nanoscience and nanotechnology many important areas in these disciplines remain largely unexplored In their efforts to move forward multidisciplinary research communities have come to a clear understanding that along with experimental techniques mathematical modeling and analysis have become crucial to the study development and application of systems at the nanoscale The conference held at BIRS in autumn 2016 brought together experts from three different communities working in fields where coupled mathematical models for nanoscale and biosystems are especially relevant mathematicians physicists both theorists and experimentalists and computational scientists including those dealing with biological nanostructures Its objectives summarize the state of the art identify and prioritize critical problems of major importance that require solutions analyze existing methodologies and explore promising approaches to addressing the challenges identified The contributions offer up to date introductions to a range of topics in nano and biosystems identify important challenges assess current methodologies and explore promising approaches As such this book will benefit researchers in applied mathematics as well as physicists and biologists interested in coupled mathematical models and their analysis for physical and biological nanoscale systems that concern applications in biotechnology and medicine quantum information processing and optoelectronics The Oxford Handbook of Computational and Mathematical Psychology Jerome R. Busemeyer,Zheng Wang,James T. Townsend,Ami Eidels,2015-03-20 This Oxford Handbook offers a comprehensive and authoritative review of important developments in computational and mathematical psychology With chapters written by leading scientists across a variety of subdisciplines it examines the field s influence on related research areas such as cognitive psychology developmental psychology clinical psychology and neuroscience The Handbook emphasizes examples and applications of the latest research and will appeal to

readers possessing various levels of modeling experience The Oxford Handbook of Computational and mathematical Psychology covers the key developments in elementary cognitive mechanisms signal detection information processing reinforcement learning basic cognitive skills perceptual judgment categorization episodic memory higher level cognition Bayesian cognition decision making semantic memory shape perception modeling tools Bayesian estimation and other new model comparison methods and emerging new directions in computation and mathematical psychology neurocognitive modeling applications to clinical psychology quantum cognition The Handbook would make an ideal graduate level textbook for courses in computational and mathematical psychology Readers ranging from advanced undergraduates to experienced faculty members and researchers in virtually any area of psychology including cognitive science and related social and behavioral sciences such as consumer behavior and communication will find the text useful **Applications of Quantum Mechanical Techniques to Areas Outside of Quantum Mechanics. 2nd Edition** Emmanuel Haven,Andrei Khrennikov,2019-11-14 This book deals with applications of quantum mechanical techniques to areas outside of quantum mechanics so called quantum like modeling Research in this area has grown over the last 15 years But even already more than 50 years ago the interaction between Physics Nobelist Pauli and the psychologist Carl Jung in the 1950 s on seeking to find analogous uses of the complementarity principle from quantum mechanics in psychology needs noting This book does NOT want to advance that society is quantum mechanical The macroscopic world is manifestly not quantum mechanical But this rules not out that one can use concepts and the mathematical apparatus from quantum physics in a macroscopic environment A mainstay ingredient of quantum mechanics is quantum probability and this tool has been proven to be useful in the mathematical modelling of decision making In the most basic experiment of quantum physics the double slit experiment it is known from the works of A Khrennikov that the law of total probability is violated It is now well documented that several decision making paradoxes in psychology and economics such as the Ellsberg paradox do exhibit this violation of the law of total probability When data is collected with experiments which test non rational decision making behaviour one can observe that such data often exhibits a complex non commutative structure which may be even more complex than if one considers the structure allied to the basic two slit experiment The community exploring quantum like models has tried to address how quantum probability can help in better explaining those paradoxes Research has now been published in very high standing journals on resolving some of the paradoxes with the mathematics of quantum physics The aim of this book is to collect the contributions of world s leading experts in quantum like modeling in decision making psychology cognition economics and finance **Models and Modeling** Myint Swe Khine,Issa M. Saleh,2011-03-01 The process of developing models known as modeling allows scientists to visualize difficult concepts explain complex phenomena and clarify intricate theories In recent years science educators have greatly increased their use of modeling in teaching especially real time dynamic modeling which is central to a scientific investigation Modeling in science teaching is being used in an array of

fields everything from primary sciences to tertiary chemistry to college physics and it is sure to play an increasing role in the future of education Models and Modeling Cognitive Tools for Scientific Enquiry is a comprehensive introduction to the use of models and modeling in science education It identifies and describes many different modeling tools and presents recent applications of modeling as a cognitive tool for scientific enquiry *Solvable Models in Quantum Mechanics* S. Albeverio, F. Gesztesy, R. Hoegh-Krohn, H. Holden, and an appendix by P. Exner, This monograph presents a detailed study of a class of solvable models in quantum mechanics that describe the motion of a particle in a potential having support at the positions of a discrete finite or infinite set of point sources Both situations where the strengths of the sources and their locations are precisely known and where these are only known with a given probability distribution are covered The authors present a systematic mathematical approach to these models and illustrate its connections with previous heuristic derivations and computations Results obtained by different methods in disparate contexts are thus unified and a systematic control over approximations to the models in which the point interactions are replaced by more regular ones is provided The first edition of this book generated considerable interest for those learning advanced mathematical topics in quantum mechanics especially those connected to the Schr dinger equations This second edition includes a new appendix by Pavel Exner who has prepared a summary of the progress made in the field since 1988 His summary centering around two body point interaction problems is followed by a bibliography focusing on essential developments made since 1988 appendix by Pavel Exner who has prepared a summary of the progress made in the field since 1988 His summary centering around two body point interaction problems is followed by a bibliography focusing on essential developments made since 1988 R sum de l diteur

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