# Long Time Behaviour of Classical and Quantum Systems

## Proceedings of the Bologna APTEX International Conference

**Editors**

## Sandro Graffi & André Martinez

# Long Time Behaviour Of Clabical And Quantum Systems

**Sebastian Brünink**

**Long Time Behaviour Of Clabical And Quantum Systems:**

   **Long Time Behaviour of Classical and Quantum Systems** Sandro Graffi,Andr Martinez,2001 This book is centered on the two minicourses conducted by C Liverani Rome and J Sjoestrand Paris on the return to equilibrium in classical statistical mechanics and the location of quantum resonances via semiclassical analysis respectively The other contributions cover related topics of classical and quantum mechanics such as scattering theory classical and quantum statistical mechanics dynamical localization quantum chaos ergodic theory and KAM techniques     Long Time Behaviour Of Classical And Quantum Systems - Proceedings Of The Bologna Aptex International Conference Sandro Graffi,Andre Martinez,2001-04-02 This book is centered on the two minicourses conducted by C Liverani Rome and J Sjoestrand Paris on the return to equilibrium in classical statistical mechanics and the location of quantum resonances via semiclassical analysis respectively The other contributions cover related topics of classical and quantum mechanics such as scattering theory classical and quantum statistical mechanics dynamical localization quantum chaos ergodic theory and KAM techniques
   *Long Time Behaviour of Classical and Quantum Systems* Sandro Graffi,André Martinez,2001 Return to equilibrium in classical and quantum systems Carlangelo Liverani Quantum resonances and trapped trajectories Johannes Sjostrand Return to thermal equilibrium in quantum statistical mechanics Volker Bach Small oscillations in some nonlinear PDE s Dario Bambusi and Simone Paleari The semi classical Van Vleck Formula Application to the Aharonov Bohm effect Jean Marie Bily and Didier Robert Fractal dimensions and quantum evolution associated with sparse potential Jacobi matrices Jean Michel Combes and Giorgio Mantica Infinite step billiards Mirko Degli Esposti Semiclassical expansion for the thermodynamic limit of the ground state energy of Kac s operator Bernard Helffer and Thierry Ramond Asymptotics of scattering poles for two strictly convex obstacles Mitsuru Ikawa Parabolic dynamical systems and inducing Stefano Isola QFT for scalar particles in external fields on Riemannian manifolds Hiroshi Isozaki Existence and born Oppenheimer Asymptotics of the total scattering cross section in ion atom collisions Thierry Jecko Markus Klein and Xue Ping Wang On asymptotic perturbation theory for quantum mechanics Gheorghe Nenciu Destruction of the beating effect in a periodically driven double well Andrea Sacchetti Berezin Toeplitz quantization and Berezin transform Martin Schlichenmaier     **Feynman Integral and Random Dynamics in Quantum Physics** Z. Haba,2013-03-11 The Feynman integral is considered as an intuitive representation of quantum mechanics showing the complex quantum phenomena in a language comprehensible at a classical level It suggests that the quantum transition amplitude arises from classical mechanics by an average over various interfering paths The classical picture suggested by the Feynman integral may be illusory By most physicists the path integral is usually treated as a convenient formal mathematical tool for a quick derivation of useful approximations in quantum mechanics Results obtained in the formalism of Feynman integrals receive a mathematical justification by means of other usually much harder methods In such a case the rigour is achieved at the cost of losing the intuitive classical insight The aim of this book is to

formulate a mathematical theory of the Feynman integral literally in the way it was expressed by Feynman at the cost of complexifying the configuration space In such a case the Feynman integral can be expressed by a probability measure The equations of quantum mechanics can be formulated as equations of random classical mechanics on a complex configuration space The opportunity of computer simulations shows an immediate advantage of such a formulation A mathematical formulation of the Feynman integral should not be considered solely as an academic question of mathematical rigour in theoretical physics *Challenging Routes In Quantum Cosmology* Shahram Jalalzadeh,Paulo Vargas Moniz,2022-07-28 Quantum cosmology has gradually emerged as the focus of devoted research mostly within the second half of last century As we entered the 21st century the subject is still very much alive The outcome of results and templates for investigation have been enlarged some very recent and fascinating Hence this book where the authors bequeath some of their views as they believe this current century is the one where quantum cosmology will be fully accomplished Though some aspects are not discussed namely supersymmetry or loop structures there are perhaps a set of challenges that in the authors opinion remain some since the dawn of quantum mechanics and applications to cosmology Others could have been selected at the readers discretion and opinion The authors put herewith a chart and directions to explore some of which they have worked on or aimed to work more in the twilight of their current efforts Their confidence is that someone will follow in their trails venturing in discovering the proper answer by being able to formulate the right questions beforehand The authors shared foresight is that such discoveries from those formulations will be attained upon endorsing the routes within the challenges herewith indicated *Spectral Theory and Mathematical Physics: A Festschrift in Honor of Barry Simon's 60th Birthday* Fritz Gesztesy,2007 This Festschrift had its origins in a conference called SimonFest held at Caltech March 27 31 2006 to honor Barry Simon s 60th birthday It is not a proceedings volume in the usual sense since the emphasis of the majority of the contributions is on reviews of the state of the art of certain fields with particular focus on recent developments and open problems The bulk of the articles in this Festschrift are of this survey form and a few review Simon s contributions to aparticular area Part 1 contains surveys in the areas of Quantum Field Theory Statistical Mechanics Nonrelativistic Two Body and N Body Quantum Systems Resonances Quantum Mechanics with Electric and Magnetic Fields and the Semiclassical Limit Part 2 contains surveys in the areas of Random andErgodic Schrodinger Operators Singular Continuous Spectrum Orthogonal Polynomials and Inverse Spectral Theory In several cases this collection of surveys portrays both the history of a subject and its current state of the art A substantial part of the contributions to this Festschrift are survey articles on the state of the art of certain areas with special emphasis on open problems This will benefit graduate students as well as researchers who want to get a quick yet comprehensiveintroduction into an area covered in this volume The Breadth of Symplectic and Poisson Geometry Jerrold E. Marsden,Tudor S. Ratiu,2007-07-03 The invited papers in this volume are written in honor of Alan Weinstein one of the world s foremost geometers Contributions cover a broad range of topics in

symplectic and differential geometry Lie theory mechanics and related fields Intended for graduate students and working mathematicians this text is a distillation of prominent research and an indication of future trends in geometry mechanics and mathematical physics      Quantum Chaos Y2k, Proceedings Of Nobel Symposium 116 Sven Aberg,Karl-fredrik Berggren,2001-10-09 Quantum chaos is becoming a very wide field that ranges from experiments to theoretical physics and purely mathematical issues In view of this grand span Nobel Symposium 116 focused on experiments and theory and attempted to encourage interplay between them There was emphasis on the interdisciplinary character of the subject involving a broad range of subjects in physics including condensed matter physics nuclear physics atomic physics and elementary particle physics The physics involved in quantum chaos has much in common with acoustics microwaves optics etc and therefore the symposium also covered aspects of wave chaos in this broader sense The program was structured according to the following areas manifestations of classical chaos in quantum systems transport phenomena quantal spectra in terms of periodic orbits semiclassical and random matrix approaches quantum chaos in interacting systems chaos and tunneling wave dynamic chaos This important book constitutes the proceedings of the symposium      *Geometry and Physics: Volume I* Jørgen Ellegaard Andersen,Andrew Dancer,Oscar García-Prada,2018-10-18 Nigel Hitchin is one of the world s foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics and he has been Savilian Professor of Geometry at Oxford since 1997 Geometry and Physics A Festschrift in honour of Nigel Hitchin contain the proceedings of the conferences held in September 2016 in Aarhus Oxford and Madrid to mark Nigel Hitchin s 70th birthday and to honour his far reaching contributions to geometry and mathematical physics These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working in related areas including three Fields Medallists The articles cover a broad range of topics in differential algebraic and symplectic geometry and also in mathematical physics These volumes will be of interest to researchers and graduate students in geometry and mathematical physics      *Geometry and Physics* Jørgen Ellegaard Andersen,Andrew Dancer,Oscar García-Prada,2018 Nigel Hitchin is one of the world s foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics and he has been Savilian Professor of Geometry at Oxford since 1997 Geometry and Physics A Festschrift in honour of Nigel Hitchin contain the proceedings of the conferences held in September 2016 in Aarhus Oxford and Madrid to mark Nigel Hitchin s 70th birthday and to honour his far reaching contributions to geometry and mathematical physics These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working in related areas including three Fields Medallists The articles cover a broad range of topics in differential algebraic and symplectic geometry and also in mathematical physics These volumes will be of interest to researchers and graduate students in geometry and mathematical physics      Coherent atomic matter waves - Ondes de matiere coherentes R. Kaiser,C. Westbrook,F. David,2007-07-03 Progress in atomic physics has been so vigorous during the past decade that one is hard pressed to follow

all the new developments In the early 1990s the first atom interferometers opened a new field in which we have been able to use the wave nature of atoms to probe fundamental quantum me chanics questions as well as to make precision measurements Coming fast on the heels of this development was the demonstration of Bose Einstein condensation in dilute atomic vapors which intensified research interest in studying the wave nature of matter especially in a domain in which macro scopic quantum effects vortices stimulated scattering of atomic beams are visible At the same time there has been much progress in our understanding of the behavior of waves notably electromagnetic in complex media both periodic and disordered An obvious topic of speculation and probably of future research is whether any new insight or applications will develop if one examines the behavior of de Broglie waves in analogous situations Finally our ability to manipulate atoms has allowed us not only to create macroscopically occupied quantum states but also to exercise fine control over the quantum states of a small number of atoms This has advanced to the study of quantum entanglement and its relation to the theory of measurement and the theory of information The 1990s have also seen an explosion of interest in an exciting potential application of this fine control quantum computation and quantum cryptography **The Many Facets of Geometry** Oscar Garcia-Prada,Jean Pierre Bourguignon,Simon Salamon,2010-07-01 Few people have proved more influential in the field of differential and algebraic geometry and in showing how this links with mathematical physics than Nigel Hitchin Oxford University s Savilian Professor of Geometry has made fundamental contributions in areas as diverse as spin geometry instanton and monopole equations twistor theory symplectic geometry of moduli spaces integrables systems Higgs bundles Einstein metrics hyperk hler geometry Frobenius manifolds Painlev equations special Lagrangian geometry and mirror symmetry theory of grebes and many more He was previously Rouse Ball Professor of Mathematics at Cambridge University as well as Professor of Mathematics at the University of Warwick is a Fellow of the Royal Society and has been the President of the London Mathematical Society The chapters in this fascinating volume written by some of the greats in their fields including four Fields Medalists show how Hitchin s ideas have impacted on a wide variety of subjects The book grew out of the Geometry Conference in Honour of Nigel Hitchin held in Madrid with some additional contributions and should be required reading for anyone seeking insights into the overlap between geometry and physics *Semiclassical Analysis, Witten Laplacians, And Statistical Mechanics* Bernard Helffer,2002-09-10 This important book explains how the technique of Witten Laplacians may be useful in statistical mechanics It considers the problem of analyzing the decay of correlations after presenting its origin in statistical mechanics In addition it compares the Witten Laplacian approach with other techniques such as the transfer matrix approach and its semiclassical analysis The author concludes by providing a complete proof of the uniform Log Sobolev inequality *GENERALIZED LAGRANGIAN APPROACH AND BEHAVIOR OF LIVING SYSTEMS* UZIEL SANDLER,2020-05-14 The Lagrangian approach had in many respects yielded significant success of theoretical physics in the centuries following its discovery Unfortunately the Lagrangian equations in its original form cannot be applied to living

systems For a time independent Lagrangian these equations are time reversible and lead to energy conservation which undoubtedly is not true for the living objects In this book we show that natural although rather unexpected generalization of the Lagrangian enables directly use the apparatus of Lagrangian dynamics to describe behavior the living objects It is ultimately not a revolutionary modification Rather lost opportunity that was not considered in the development of contemporary physics has been revisited The main difference between living creatures and non living things is that life actively counteracts its degradation in a continuously changing environment Attempting to minimize the likelihood of death is a basic feature of living organisms In this book we assume that the best candidate for an indicator of proximity to death is stress which is naturally related to the undesirable states of an organism It will be shown that such an assumption facilitates the design of the generalized Lagrangians and that exploring even the lowest approximation of the Lagrangians allows for a reasonable description of a wide class of behavior of living beings ranging from bacterial chemotaxis to homeostasis dominance a hierarchy formation in the social groups and behavior of living being in environment Although the book intendent mainly for young physicists and mathematicians whose seek promising areas to apply their professional skills experienced researchers would find here novel powerful theoretical apparatus for their investigation *Problems in Probability* T. M. Mills,2001 Probability theory is an important part of contemporary mathematics It plays a key role in the insurance industry in the modelling of financial markets and in statistics generally including all those fields of endeavour to which statistics is applied e g health physical sciences engineering economics The 20th century has been an important period for the subject because we have witnessed the development of a solid mathematical basis for the study of probability especially from the Russian school of probability under the leadership of A N Kolmogorov We have also seen many new applications of probability from applications of stochastic calculus in the financial industry to Internet gambling At the beginning of the 21st century the subject offers plenty of scope for theoretical developments modern applications and computational problems There is something for everyone in probability The notes and problems in this book have been designed to provide a basis for a series of lectures suitable for advanced undergraduate students on the subject of probability Through problem solving students can experience the excitement associated with probability This activity will help them to develop their problem solving skills which are so valuable in today s world The problems in the book will introduce the student to some famous works and workers in probability and convey the historical classical and contemporary aspects of probability A key feature of the book is that many problems are in fact small guided research projects The research work involved in solving the problems will enhance the student s library research skills **Holomorphic Morse Inequalities and Bergman Kernels** Xiaonan Ma,George Marinescu,2007-12-14 This book examines holomorphic Morse inequalities and the asymptotic expansion of the Bergman kernel on manifolds by using the heat kernel It opens perspectives on several active areas of research in complex K hler and symplectic geometry A large number of applications are also included such as

an analytic proof of Kodaira s embedding theorem a solution of the Grauert Riemenschneider and Shiffman conjectures compactification of complete K hler manifolds of pinched negative curvature Berezin Toeplitz quantization weak Lefschetz theorems and asymptotics of the Ray Singer analytic torsion <u>Grassmannians, Moduli Spaces and Vector Bundles</u> David Ellwood,Emma Previato,2011 This collection of cutting edge articles on vector bundles and related topics originated from a CMI workshop held in October 2006 that brought together a community indebted to the pioneering work of P E Newstead visiting the United States for the first time since the 1960s Moduli spaces of vector bundles were then in their infancy but are now as demonstrated by this volume a powerful tool in symplectic geometry number theory mathematical physics and algebraic geometry In fact the impetus for this volume was to offer a sample of the vital convergence of techniques and fundamental progress taking place in moduli spaces at the outset of the twenty first century This volume contains contributions by J E Andersen and N L Gammelgaard Hitchin s projectively flat connection and Toeplitz operators M Aprodu and G Farkas moduli spaces D Arcara and A Bertram stability in higher dimension L Jeffrey intersection cohomology J Kamnitzer Langlands program M Lieblich arithmetic aspects P E Newstead coherent systems G Pareschi and M Popa linear series on Abelian varieties and M Teixidor i Bigas bundles over reducible curves These articles do require a working knowledge of algebraic geometry symplectic geometry and functional analysis but should appeal to practitioners in a diversity of fields No specialization should be necessary to appreciate the contributions or possibly to be stimulated to work in the various directions opened by these path blazing ideas to mention a few the Langlands program stability criteria for vector bundles over surfaces and threefolds linear series over abelian varieties and Brauer groups in relation to arithmetic properties of moduli spaces **Defects of Properties in Mathematics** Adrian I. Ban,Sorin G. Gal,2002 Introduces a method of research which can be used in various fields of mathematics **Unstable States in the Continuous Spectra. Analysis, Concepts, Methods and Results** ,2010-11-25 Advances in Quantum Chemistry presents surveys of current developments in this rapidly developing field With invited reviews written by leading international researchers each presenting new results it provides a single vehicle for following progress in this interdisciplinary area Publishes articles invited reviews and proceedings of major international conferences and workshops Written by leading international researchers in quantum and theoretical chemistry Highlights important interdisciplinary developments *Introduction to Matrix Theory* Ferenc Szidarovszky,S ndor Moln r,2002 In economic modeling and planning as well as in business most problems are linear or approximated by linear models Such problems are solved by matrix methods so the material presented in this book is essential to these fields

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