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(Eds.)

# The Mathematical Aspects of Quantum Maps



Springer

# Mathematical Aspects Of Quantum Maps

**Daniel Iagolnitzer**

## **Mathematical Aspects Of Quantum Maps:**

**The Mathematical Aspects of Quantum Maps** Mirko Espositi,Sandro Graffi,2008-01-11 Quantum maps are presented with special emphasis on their physical origin They represent a testing ground for understanding concepts in quantized chaotic systems The book teaches the modern mathematical methods from analytic and algebraic number theory as applied to quantum maps It gives a broad and in depth overview of the mathematical problems arising in this area Also treated are the numerical aspects in quantum chaos such as eigenvalue and eigenfunctions computations for chaotic quantum systems The book addresses scientists and advanced students in mathematics and mathematical physics *The Mathematical Aspects of Quantum Maps* Mirko Espositi,Sandro Graffi,2003-06-04 Quantum maps are presented with special emphasis on their physical origin They represent a testing ground for understanding concepts in quantized chaotic systems The book teaches the modern mathematical methods from analytic and algebraic number theory as applied to quantum maps It gives a broad and in depth overview of the mathematical problems arising in this area Also treated are the numerical aspects in quantum chaos such as eigenvalue and eigenfunctions computations for chaotic quantum systems The book addresses scientists and advanced students in mathematics and mathematical physics

## **Spectral Theory and Applications**

Alexandre Girouard,2018-11-21 This book is a collection of lecture notes and survey papers based on the minicourses given by leading experts at the 2016 CRM Summer School on Spectral Theory and Applications held from July 4 14 2016 at Universit Laval Qu bec City Qu bec Canada The papers contained in the volume cover a broad variety of topics in spectral theory starting from the fundamentals and highlighting its connections to PDEs geometry physics and numerical analysis

**Mathematical Aspects of Quantum Field Theories** Damien Calaque,Thomas Strobl,2015-01-06 Despite its long history and stunning experimental successes the mathematical foundation of perturbative quantum field theory is still a subject of ongoing research This book aims at presenting some of the most recent advances in the field and at reflecting the diversity of approaches and tools invented and currently employed Both leading experts and comparative newcomers to the field present their latest findings helping readers to gain a better understanding of not only quantum but also classical field theories Though the book offers a valuable resource for mathematicians and physicists alike the focus is more on mathematical developments This volume consists of four parts The first Part covers local aspects of perturbative quantum field theory with an emphasis on the axiomatization of the algebra behind the operator product expansion The second Part highlights Chern Simons gauge theories while the third examines semi classical field theories In closing Part 4 addresses factorization homology and factorization algebras *Nonlinearity* ,2008-05 **Mathematical Reviews** ,2008 *Noise Induced Dissipation in Discrete-time Classical and Quantum Dynamical Systems* Lech Bolesław Wołowski,2004

*Mathematical Aspects of Conformal and Topological Field Theories and Quantum Groups* Paul J. Sally (Jr.),1994 This book contains papers presented by speakers at the AMS IMS SIAM Joint Summer Research Conference on Conformal Field

Theory Topological Field Theory and Quantum Groups held at Mount Holyoke College in June 1992 One group of papers deals with one aspect of conformal field theory namely vertex operator algebras or superalgebras and their representations Another group deals with various aspects of quantum groups Other topics covered include the theory of knots in three manifolds symplectic geometry and tensor products This book provides an excellent view of some of the latest developments in this growing field of research     *The British National Bibliography* Arthur James Wells,2004     *Grace Webb Tenny*

,1910\*     **Frontiers in Number Theory, Physics, and Geometry I** Pierre Cartier,2006 This text together with a forthcoming second volume presents most of the courses and seminars delivered at the meeting entitled Frontiers in number theory physics and geometry which took place at the Centre de Physique des Houches in the French Alps March 9 12 2003

**Notices of the American Mathematical Society** American Mathematical Society,1977 Contains articles of significant interest to mathematicians including reports on current mathematical research     Energy Research Abstracts ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes     **Encyclopedia of Mathematical Physics** Jean-Pierre Françoise,Gregory L. Naber,Sheung Tsun Tsou,2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy     **Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews** ,1988     **Reviews in Operator Theory, 1980-86** ,1989     **Combinatorial Aspect of Integrable Systems** Arkady Berenstein,2007 This volume is a collection of six papers based on the expository lectures of the workshop Combinatorial Aspect of Integrable Systems held at RIMS during July 26 30 2004 as a part of the Project Research 2004 Method of Algebraic Analysis in Integrable Systems The

topics range over crystal bases of quantum groups its algebra geometric analogue known as geometric crystal generalizations of Robinson Schensted type correspondence fermionic formula related to Bethe ansatz applications of crystal bases to soliton cellular automata Yang Baxter maps and integrable discrete dynamics All the papers are friendly written with many illustrative examples and intimately related to each other This volume will serve as a good guide for researchers and graduate students who are interested in this fascinating subject Published by Mathematical Society of Japan and distributed by World Scientific Publishing Co for all markets

**XIth International Congress of Mathematical Physics** Daniel Iagolnitzer, 1995 Over 1000 mathematicians participated in the Paris International Conference on Mathematical Physics and its satellite conference on topology strings and integrable models This volume contains some of the highlights including

topics such as conformable field theory and general relativity **Functional Intergration, Geometry & Strings PPH'13**  
HABA,SOCZYK,1989-11-01 *Functional Integration, Geometry, and Strings* Zbigniew Haba,Jan Sobczyk,1989

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