

Mirko Degli Esposti
Sandro Graffi
(Eds.)

The Mathematical Aspects of Quantum Maps



Springer

Mathematical Aspects Of Quantum Maps

Daniel Iagolnitzer



Mathematical Aspects Of Quantum Maps:

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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

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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

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