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Infinite Dimensional Analysis, Quantum Probability and Related Topics. ISSN (print): A quantum probabilistic approach to Hecke algebras for.

Small notes, surveys of recent developments, reports on seminars, new proofs or expositions of important results, Manuscripts, preferably laser printed, should be submitted in 3 copies to the Managing Editor, or to any one of the redactors. Fifty 50 reprints of each paper will be supplied free of charge; additional reprints are available at cost price. Accardi Editorial board A. This book, or parts thereof, may not be reproduced in any form or by any means, electronic or mechanical, including photocopying, recording or any information storage and retrieval system now known or to be invented, without written permission from the Publisher. Lu Quantum Markov chains: Koroliuk A macroscopical classical laboratory situation with only macroscopical classical entities giving rise to a quantum mechanical description 75 D. Aerts T h e asymptotic behavior of quantum e-entropy 85 S. Akashi Towards a quantum theory of classical diffusions on riemannian manifolds 93 D. AppeJbaum Applications of quantum stochastic calculus to quantum optics A. Barchielli Quantum stopping-times C. Wilde A quantum nonadapted stochastic calculus and nonstationary evolution in Fock scale V. Belavkin Entropic and algebraic jftT-systems: Benatti Some properties of quantum Bernoulli random walks P. Biane Stochastic calculus on the finite-difference Fock space A. Speicher vi O n the non-uniqueness of the dilations of quantum dynamical semigroups obtained using quantum stochastic calculus W. Bradshaw General aspects of space and time transformations for the Coulomb propagator D. Staerk Projections associated to von Neumann subalgebras in non commutative probability C. Cecchini Quantum stochastic differential equations and Feynmann-Kac perturbation of quantum evolution F. Fagnola On quantum stochastic integration with respect to "free" noises F. Fagnola Remarks on stochastic calculus on the Fock space K. Lindsay Quantum groups and quantum probability S. Majid Fractal dimensions of states M. Ohya Unification of quantum noise processes in Fock spaces K. Sinha A note on almost uniform convergence in von Neumann algebras J. Sauvageot Decomposition of particle representations of the canonical commutation relations R. Schaflitzel White noise on involutive bialgebras M. Schurmann Survey on the stochastic integration on the full Fock space R.

2: Quantum probability and related topics - [PDF Document]

Quantum Probability and Related Topics is a series of volumes whose goal is to provide a picture of the state of the art in this rapidly growing field where classical probability, quantum physics and functional analysis merge together in an original synthesis which, for 20 years, has been enriching these three areas with new ideas, techniques and results.

Contents An invitation to the weak coupling and low density limits, L. Accardi et al-- quantum markov chains - the recurrence problem, L. Koroliuk-- towards a quantum theory of classical diffusions on Riemannian manifolds, D. Applebaum-- applications of quantum stochastic calculus to quantum optics, A. Barchielli-- on quantum stochastic integration with respect to "Free" noises, F. Fagnola-- fractal dimensions of states, M. Ohya-- quantum groups and quantum probability, S. Majid-- unification of quantum noise processes in Fock spaces, K. Sinha-- survey on the stochastic integration on the full Fock space, R. Speicher-- a spectral property of one parameter family of sampling functions - from signal analysis to functional analysis, H. Umegaki-- free noncommutative random variables, random matrices and II, factors of free groups, D. Voiculescu-- classical and quantum intrinsically random dynamical systems - an invitation to the Prigogine theory of irreversibility, A. The new type of quantum central limit theorems, based on the notion of free independence rather than the usual Boson or Fermion independence is discussed. A surprising result is that the role of the Gaussian for this new type of independence is played by the Wigner distribution. This motivated the introduction of new type of quantum independent increments noise, the free noise and the corresponding stochastic calculus. A further generalization, the q-noises, is discussed. The free stochastic calculus is shown to be able to fit naturally into the general representation free calculus. The basic free are shown to be realized as non-adapted stochastic integrals with respect to the usual Boson white noises. Quantum noise on the finite difference algebra is expressed in terms of the usual Boson white noises. A new quantum way of looking at classical stochastic flows, in particular diffusions on Riemannian Manifolds is explained. Quantum groups are discussed from the point of view of possible applications to quantum probability. The applications of quantum probability to physics are surveyed. Nielsen Book Data Subjects.

3: International Conference on Quantum Probability and Related Topics

Infinite Dimensional Analysis Quantum Probability and Related Topics | Citations: | In the past few years the fields of infinite dimensional analysis and quantum probability have undergone.

4: Infinite Dimensional Analysis, Quantum Probability and Related Topics - Wikipedia

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6: Quantum Probability And Related Topics: Qp-pq (Volume Ix) : Luigi Accardi :

Main topics will include quantum Markov semigroups, quantum stochastic calculus, free probability, quantum information theory, product systems, Hilbert C-modules, non-commutative geometry, interacting Fock spaces etc.*

7: Infinite Dimensional Analysis, Quantum Probability and Related Topics

This volume contains several surveys of important developments in quantum probability. The new type of quantum central limit theorems, based on the notion of free independence rather than the usual Boson or Fermion independence is discussed.

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