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Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 1442
Classificazione	60-06 81-06 81-06 81-06
Disciplina	510
Soggetti	Stochastic processes Quantum theory Probabilities Markov processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Proceedings of the Fourth Workshop on Quantum Probability"--Introd.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Quantum Langevin equation in the weak coupling limit -- On the low density limit of Boson models -- Quantum stochastic flows and non abelian cohomology -- Quantum diffusions on involutive algebras -- Some Markov semigroups in quantum probability -- A quantum stochastic calculus in fock space of input and output nondemolition processes -- Stochastic transitions on preduals of von Neumann algebras -- Quantum stochastic calculus and a boson Levy theorem -- Locally independent boson systems -- Time-inhomogeneous and nonlinear quantum evolutions -- Quantum poisson processes: Physical motivations and applications -- Quantum central limit and coarse graining -- An open problem in quantum shot noise -- A method of operator estimation and a strong law of large numbers in von Neumann algebras -- An analog of the Ito decomposition for multiplicative processes with values in a Lie group -- Stochastic dilations of quantum dynamical semigroups using one-dimensional quantum stochastic calculus -- Sluggish decay of preparation effects in low temperature quantum systems -- Almost sure convergence of iterates of

contractions in noncommutative L_2 -spaces -- Duality transform as *-algebraic isomorphism -- Rigidity of the poisson convolution -- A discrete entropic uncertainty relation -- Working with Quantum Markov States and their classical analogues -- Dynamical entropy, quantum K-systems and clustering -- A continuous time version of Stinespring's theorem on completely positive maps -- The topology of the convergence in probability in a W^* -algebra is normal -- First steps towards a Donsker and Varadhan theory in operator algebras -- Quantum conditional probability spaces -- Quantum diffusions on the rotation algebras and the quantum hall effect -- Quantum dirichlet forms, differential calculus and semigroups -- Gaussian states on bialgebras -- Quantum macrostatistics and irreversible thermodynamics -- Correction to the hydrodynamical approximation for groups of Bogoljubov transformations -- Bell's inequalities and quantum field theory.

Sommario/riassunto

These proceedings of the workshop on quantum probability held in Heidelberg, September 26-30, 1988 contains a representative selection of research articles on quantum stochastic processes, quantum stochastic calculus, quantum noise, geometry, quantum probability, quantum central limit theorems and quantum statistical mechanics.
