

1. Record Nr.	UNISA996466600603316
Titolo	Quantum probability and applications IV : proceedings of the Year of quantum probability, held at the University of Rome II, Italy, 1987 / / L. Accardi, W. von Waldenfels, editors
Pubbl/distr/stampa	Berlin : , : Springer-Verlag, , [1989] ©1989
ISBN	3-540-46713-0
Edizione	[1st ed. 1989.]
Descrizione fisica	1 online resource (VIII, 364 p.)
Collana	Lecture notes in mathematics (Springer-Verlag) ; ; 1396
Disciplina	515.7
Soggetti	Functional analysis Markov processes Probabilities
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Cecchini's transition expectations and markov chains -- Central limits of squeezing operators -- On the weak coupling limit problem -- On multi-dimensional markovian cocycles -- Quantum stop times -- Quantum random walks -- Unitary dilation of a nonlinear quantum boltzmann equation -- On isometries of non associative $L_p$ -spaces -- Convolution semigroups in quantum probability and quantum stochastic calculus -- Stochastic couplings for von neumann algebras -- The covering property in a causal logic -- Temperature states of spin-boson models -- Bernoulli fields -- The relations of the non-commutative coefficient algebra of the unitary group -- Orthogonal series and strong laws of large numbers in von neumann algebras -- Limit theorems for repeated measurements and continuous measurement processes -- Quantum diffusions on the algebra of all bounded operators on a hilbert space -- Asymptotic formula for normal operators in non-commutative $L_2$ -spaces -- Convergences in $W^*$ -algebras — Their strange behaviour and tools for their investigation -- Positive mappings on matrix algebras -- Fluctuations of the dicke maser -- Tangent bimodule and locality for dissipative operators on $C^*$ -algebras -- Noncommutative stochastic processes with independent and stationary additive increments -- The atom in the radiation field as

a quantum stochastic process.

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#### Sommario/riassunto

This volume, the fourth of the quantum probability series, collects part of the contributions to the Year of Quantum Probability organized by the Volterra Center of University of Rome II. The intensive communication among researchers during this Year allowed several open problems to be solved and several unexpected connections to be revealed.

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