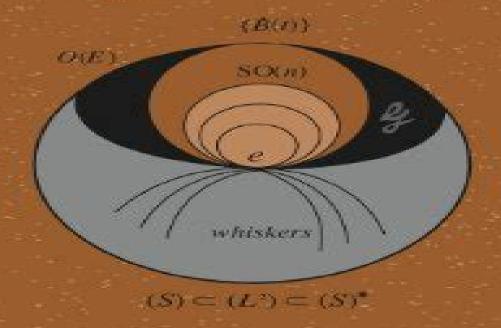# Selected Papers of
Takeyuki Hida

Edited by

L Accardi, H H Kuo, N Obata, K Saitô
Si Si and L Streit

Selected Papers Of Takeyuki Hida

Habib Ouerdiane

Selected Papers Of Takeyuki Hida:

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The large range of subjects covers the latest research in probability theory **Mathematical Analysis Of Random Phenomena - Proceedings Of The International Conference** Ana Bela Cruzeiro,Habib Ouerdiane,Nobuaki Obata,2007-04-04 This volume highlights recent developments of stochastic analysis with a wide spectrum of applications including stochastic differential equations stochastic geometry and nonlinear partial differential equations While modern stochastic analysis may appear to be an abstract mixture of classical analysis and probability theory this book shows that in fact it can provide versatile tools useful in many areas of applied mathematics where the phenomena being described are random The geometrical aspects of stochastic analysis often regarded as the most promising for applications are specially investigated by various contributors to the volume **Quantum Information V** Takeyuki Hida,Kimiaki Saito,2006 http www worldscientific com worldscibooks 10 1142 5378 Introduction to Hida Distributions Si Si,2012 This book provides the mathematical definition of white noise and gives its significance White noise is in fact a typical class of idealized elemental infinitesimal random variables Thus we are naturally led to have functionals of such elemental random variables that is white noise This book analyzes those functionals of white noise particularly the generalized ones called Hida distributions and highlights some interesting future directions The main part of the book involves infinite dimensional differential and integral calculus based on the variable which is white noise The present book can be used as a supplementary book to Lectures on White Noise Functionals published in 2008 with detailed background provided

Quantum Information and Complexity Takeyuki Hida,2004 Quantum information is a developing multi disciplinary field with many exciting links to white noise theory This connection is explored and presented in this work which effectively bridges the gap between quantum information theory and complex systems Arising from the Meijo Winter School and International Conference the lecture notes and research papers published in this timely volume will have a significant impact on the future development of the theories of quantum information and complexity This book will be of interest to mathematicians physicists computer scientists as well as electrical engineers working in this field **Lectures on White Noise Functionals** Takeyuki Hida,Si Si,2008 White noise analysis is an advanced stochastic calculus that has developed extensively since three decades ago It has two main characteristics One is the notion of generalized white noise functionals the introduction of which is oriented by the line of advanced analysis and they have made much contribution to the fields in science enormously The other characteristic is that the white noise analysis has an aspect of infinite dimensional harmonic analysis arising from the infinite dimensional rotation group With the help of this rotation group the white noise analysis has explored new areas of mathematics and has extended the fields of applications *Quantum Bio-informatics III* Luigi Accardi,Wolfgang Freudenberg,Masanori Ohya,2010 The purpose of this proceedings volume is to look for interdisciplinary bridges in mathematics physics information and life sciences in particular research for new paradigms for information and life sciences on the basis of quantum theory The main areas in this volume are all related to one of the following subjects 1

quantum information 2 bio informatics and 3 the interrelation between 1 and 2   *An Innovation Approach to Random Fields* Takeyuki Hida,Si Si,2004 An exploration of random fields The authors use an approach that firstly constructs innovation which is the most elemental stochastic process with a basic and simple way of dependence and then they express the given field as a function of the innovation   **Innovation Approach To Random Fields, An: Application Of White Noise Theory** Takeyuki Hida,Si Si,2004-07-14 A random field is a mathematical model of evolutional fluctuating complex systems parametrized by a multi dimensional manifold like a curve or a surface As the parameter varies the random field carries much information and hence it has complex stochastic structure The authors of this book use an approach that is characteristic namely they first construct innovation which is the most elemental stochastic process with a basic and simple way of dependence and then express the given field as a function of the innovation They therefore establish an infinite dimensional stochastic calculus in particular a stochastic variational calculus The analysis of functions of the innovation is essentially infinite dimensional The authors use not only the theory of functional analysis but also their new tools for the study   Quantum Information IV Takeyuki Hida,Kimiaki Saito,2002 Annotation study on the Power of Potential fluctuation in living cells some properties of measure valued processes with singular branching rate and other papers   Quantum Information Iv, Proceedings Of The Fourth International Conference Takeyuki Hida,Kimiaki Saito,2002-05-30   Quantum Bio-informatics Luigi Accardi,Wolfgang Freudenberg,Masanori Ohya,2008 The purpose of this volume is examine bio informatics and quantum information which are growing rapidly at present and to attempt to connect the two with a view to enumerating and solving the many fundamental problems they entail To this end we look for interdisciplinary bridges in mathematics physics and information and life sciences In particular research into a new paradigm for information science and life science on the basis of quantum theory is emphasized   **Quantum Information And Computing** Noboru Watanabe,Masanori Ohya,Luigi Accardi,2006-03-16 The main purpose of this volume is to emphasize the multidisciplinary aspects of this very active new line of research in which concrete technological and industrial realizations require the combined efforts of experimental and theoretical physicists mathematicians and engineers   Quantum Probability And Infinite Dimensional Analysis - Proceedings Of The 29th Conference Habib Ouerdiane,Abdessatar Barhoumi,2010-02-10 This is the proceedings of the 29th Conference on Quantum Probability and Infinite Dimensional Analysis which was held in Hammamet Tunisia   **Quantum Probability and Infinite Dimensional Analysis** Habib Ouerdiane,2010 On the central extensions of the Heisenberg algebra L Accardi A Boukas Representations of the L vy Meixner oscillator algebra and the overcompleteness of the associated sequences of coherent states A Barhoumi H Ouerdiane A Riahi Some systems of dualities in white noise analysis T Hida Quantum white noise derivatives and associated differential equations for white noise operators U C Ji N Obata The Gibbs conditioning principle for white noise distributions interacting and non interacting cases F Cipriano S Gheryani H Ouerdiane Markov triplets on CAR algebras J Pitrik Quantum Fokker Planck models limiting case in

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