



# Quantum Bio-Informatics V: 30 (QP-PQ: Quantum Probability and White Noise Analysis)

*Luigi Accardi, Wolfgang Freudenberg, Masanori Ohya*

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This volume is based on the fifth international conference of quantum bio-informatics held at the QBI Center of Tokyo University of Science.

This volume provides a platform to connect mathematics, physics, information and life sciences, and in particular, research for new paradigm for information science and life science on the basis of quantum theory.

The following topics are discussed:

- Cryptographic algorithms
- Quantum algorithm and computation
- Quantum entanglement
- Quantum entropy and information dynamics
- Quantum dynamics and time operator
- Stochastic dynamics and white noise analysis
- Brain activity
- Quantum-like models and PD game
- Quantum physics and superconductivity
- Quantum tomography and sufficiency
- Adaptation in Plants
- Alignment of sequences


## **Contents:**

- Complexity Considerations Quantum Computation (*Luigi Accardi*)
- Oscillations and Rolling for Duffing's Equation (*Irina Ya Aref'eva, Evgeny V Piskovskiy and Igor V Volovich*)
- A Mathematical Treatment of Joint and Conditional Probability (*Masanori Asano, Masanori Ohya, Yoshiharu Tanaka, Ichiro Yamato, Irina Besieva and Andrei Khrennikov*)
- Minimum of Information Distance Criterion for Optimal Control of Mutation Rate in Evolutionary Systems (*Roman V Belavkin*)
- On Non-Markovian Quantum Evolution (*Dariusz Chruściński and Andrzej Kossakowski*)
- Internal Noise of EEG-Measurements and Certain Boson Systems (*Karl-Heinz Fichtner, Lars Fichtner, Kei Inoue and Masanori Ohya*)
- Space – Time – Noise (Raum – Zeit – Rauschen) (*Takeyuki Hida*)
- A New Noise Depending on a Space Parameter and Its Application (*Si Si and Win Win Htay*)
- Schrödinger Type Semigroups via Feynman Formulae and All That (*Oleg G Smolyanov*)
- On Treatment of Gaussian Communication Process by Quantum Entropies (*Noboru Watanabe*)
- Signaling Networks Involving Reactive Oxygen Species and  $Ca^{2+}$  in Plants (*Kazuyuki Kuchitsu*)
- Energy Flow and Information Flow in Superconducting Qubit Measurement Process (*Hayato Nakano*)
- Counter-factual Phenomenon in Quantum Mechanics (*Yutaka Shikano*)

- and other papers

**Readership:** Researchers in quantum information, quantum physics, bio-informatics and life sciences.

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