

Kinki University Series on Quantum Computing – Vol. 1

Mikio Nakahara
Robabeh Rahimi
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editors



Mathematical Aspects of Quantum Computing 2007

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Kinki University Series On Quantum Computing

Wolfgang Scherer



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Lectures on Quantum Computing, Thermodynamics and Statistical Physics Mikio Nakahara, 2013 This book is a collection of lecture notes from the Symposium on Quantum Computing Thermodynamics and Statistical Physics held at Kinki University in March 2012 Quantum information theory has a deep connection with statistical physics and thermodynamics This volume introduces some of the topics on interface among the mentioned fields Subjects included in the lecture notes include quantum annealing method nonequilibrium thermodynamics and spin glass theory among others These subjects were presented with much emphasis put in its relevance in quantum information theory These lecture notes are prepared in a self contained manner so that a reader with modest background may understand the subjects

Quantum Information and Quantum Computing Mikio Nakahara, 2013 The open research center project Interdisciplinary fundamental research toward realization of a quantum computer has been supported by the Ministry of Education Japan for five years This is a collection of the research outcomes by the members engaged in the project To make the presentation self contained it starts with an overview by Mikio Nakahara which serves as a concise introduction to quantum information and quantum computing Subsequent contributions include subjects from physics chemistry mathematics and information science reflecting upon the wide variety of scientists working under this project These contributions introduce NMR quantum computing and related techniques number theory and coding theory quantum error correction photosynthesis non classical correlations and entanglement neutral atom quantum computer among others Each of the contributions will serve as a short introduction to these cutting edge research fields

Decoherence Suppression in Quantum Systems 2008 Mikio Nakahara, Robabeh Rahimi, Akira SaiToh, 2010 While innovative ideas and creative works increasingly drive economic success the historic approach to encouraging innovation and creativity by granting property rights has come under attack by a growing number of legal theorists and technologists In *Laws of Creation* Ronald Cass and Keith Hylton take on these critics with a vigorous defense of intellectual property law The authors look closely at the IP doctrines that have been developed over many years in patent copyright

trademark and trade secret law In each area legislatures and courts have weighed the benefits that come from preserving incentives to innovate against the costs of granting innovators a degree of control over specific markets Over time the authors show a set of rules has emerged that supports wealth creating innovation while generally avoiding overly expansive growth retarding licensing regimes These rules are now under pressure from detractors who claim that changing technology undermines the case for intellectual property rights But Cass and Hylton explain how technological advances only strengthen that case In their view the easier it becomes to copy innovations the harder to detect copies and to stop copying the greater the disincentive to invest time and money in inventions and creative works The authors argue convincingly that intellectual property laws help create a society that is wealthier and inspires more innovation than those of alternative legal systems Ignoring the social value of intellectual property rights and making what others create and nurture eoefree e would be a costly mistake indeed

Frontiers in Quantum Information Research Mikio Nakahara, Shu Tanaka, 2012 Diversities in Quantum Computation and Quantum Information Mikio Nakahara, 2013 This book is a collection of lecture notes and contributions in Summer School on Diversities in Quantum Computation Information held on 1 5 August 2010 at U Community Hotel Higashi Osaka Japan Lecturers are world class authorities in respective areas in quantum information and quantum computing including physics mathematics chemistry and information science They lectured on cutting edge research frontiers where they are currently working including quantum error correction relativistic quantum information quantum computing of link polynomials quantum algorithms etc Each lecture note is written in a self contained manner so that it may be used as a textbook for one semester graduate course or advanced undergraduate course Contributions report current research subjects also in a self contained manner We believe that these articles are accessible to the readers form various disciplines *Frontiers In Quantum Information Research - Proceedings Of The Summer School On Decoherence, Entanglement & Entropy And Proceedings Of The Workshop On Mps & Dmrg* Mikio Nakahara, Shu Tanaka, 2012-06-08 This book is a collection of lecture notes contributions from a summer school on decoherence entanglement entropy and a workshop on MPS matrix product states DMRG density matrix renormalization group Subjects of the summer school include introduction to MPS black holes qubits and octonions weak measurement entanglement measures and separability generalized Bell inequalities among others Subjects of the workshop are dedicated to MPS and DMRG Applications to strongly correlated systems and integrable systems are also mentioned Contributions to this book are prepared in a self contained manner so that a reader with a modest background in quantum information and quantum computing may understand the subjects **Physics, Mathematics, And All That Quantum Jazz** Shu Tanaka, Masamitsu Bando, Utkan Gungordu, 2014-04-01 This book is a collection of contributions from a Summer Workshop on Physics Mathematics and All That Quantum Jazz Subjects of the symposium include quantum information theory quantum annealing Bose gases and thermodynamics from a viewpoint of quantum physics Contributions to this book are prepared in a self contained manner so

that readers with a modest background may understand the subjects Interface Between Quantum Information and Statistical Physics Mikio Nakahara, 2013 This book is a collection of contributions to the Symposium on Interface between Quantum Information and Statistical Physics held at Kinki University in November 2011 Subjects of the symposium include quantum adiabatic computing quantum simulator using bosons classical statistical physics among others Contributions to this book are prepared in a self contained manner so that a reader with a modest background may understand the subjects

Quantum Spin Glasses, Annealing and Computation Shu Tanaka, Ryo Tamura, Bikas K. Chakrabarti, 2017-05-04 Quantum annealing is a new generation tool of information technology which helps in solving combinatorial optimization problems with high precision based on the concepts of quantum statistical physics Detailed discussion on quantum spin glasses and its application in solving combinatorial optimization problems is required for better understanding of quantum annealing concepts Fulfilling this requirement the book highlights recent development in quantum spin glasses including Nishimori line replica method and quantum annealing methods along with the essential principles Separate chapters on simulated annealing quantum dynamics and classical spin models are provided for enhanced learning Important topics including adiabatic quantum computers and quenching dynamics are discussed in detail This text will be useful for students of quantum computation quantum information statistical physics and computer science **Entropy, Divergence, and**

Majorization in Classical and Quantum Thermodynamics Takahiro Sagawa, 2022-03-23 Rich information theoretic structure in out of equilibrium thermodynamics exists in both the classical and quantum regimes leading to the fruitful interplay among statistical physics quantum information theory and mathematical theories such as matrix analysis and asymptotic probability theory The main purpose of this book is to clarify how information theory works behind thermodynamics and to shed modern light on it The book focuses on both purely information theoretic concepts and their physical implications From the mathematical point of view rigorous proofs of fundamental properties of entropies divergences and majorization are presented in a self contained manner From the physics perspective modern formulations of thermodynamics are discussed with a focus on stochastic thermodynamics and resource theory of thermodynamics In particular resource theory is a recently developed field as a branch of quantum information theory to quantify useful resources and has an intrinsic connection to various fundamental ideas of mathematics and information theory This book serves as a concise introduction to important ingredients of the information theoretic formulation of thermodynamics

Mathematical Reviews , 2008 **Quantum Information and Quantum Computing** Mikio Nakahara, Yoshitaka Sasaki, 2012-09-17 The open research center project Interdisciplinary fundamental research toward realization of a quantum computer has been supported by the Ministry of Education Japan for five years This is a collection of the research outcomes by the members engaged in the project To make the presentation self contained it starts with an overview by Mikio Nakahara which serves as a concise introduction to quantum information and quantum computing Subsequent contributions include

subjects from physics chemistry mathematics and information science reflecting upon the wide variety of scientists working under this project These contributions introduce NMR quantum computing and related techniques number theory and coding theory quantum error correction photosynthesis non classical correlations and entanglement neutral atom quantum computer among others Each of contributions will serve as a short introduction to these cutting edge research fields

Journal of the Physical Society of Japan, 2016 Quantum Computation and Quantum Information J. M.

Landsberg, 2024-06-28 This book presents the basics of quantum computing and quantum information theory It emphasizes the mathematical aspects and the historical continuity of both algorithms and information theory when passing from classical to quantum settings The book begins with several classical algorithms relevant for quantum computing and of interest in their own right The postulates of quantum mechanics are then presented as a generalization of classical probability Complete rigorous and self contained treatments of the algorithms of Shor Simon and Grover are given Passing to quantum information theory the author presents it as a straightforward adaptation of Shannon s foundations to information theory Both Shannon s theory and its adaptation to the quantum setting are explained in detail The book concludes with a chapter on the use of representation theory in quantum information theory It shows how all known entropy inequalities including the celebrated strong subadditivity of von Neumann entropy may be obtained from a representation theory perspective With many exercises in each chapter the book is designed to be used as a textbook for a course in quantum computing and quantum information theory Prerequisites are elementary undergraduate probability and undergraduate algebra both linear and abstract No prior knowledge of quantum mechanics or information theory is required **Mathematics of Quantum Computation and**

Quantum Technology Louis Kauffman, Samuel J. Lomonaco, 2007-09-19 Research and development in the pioneering field of quantum computing involve just about every facet of science and engineering including the significant areas of mathematics and physics Based on the firm understanding that mathematics and physics are equal partners in the continuing study of quantum science Mathematics of Quantum Computation an **Mathematics of Quantum Computing** Wolfgang

Scherer, 2019-11-13 This textbook presents the elementary aspects of quantum computing in a mathematical form It is intended as core or supplementary reading for physicists mathematicians and computer scientists taking a first course on quantum computing It starts by introducing the basic mathematics required for quantum mechanics and then goes on to present in detail the notions of quantum mechanics entanglement quantum gates and quantum algorithms of which Shor s factorisation and Grover s search algorithm are discussed extensively In addition the algorithms for the Abelian Hidden Subgroup and Discrete Logarithm problems are presented and the latter is used to show how the Bitcoin digital signature may be compromised It also addresses the problem of error correction as well as giving a detailed exposition of adiabatic quantum computing The book contains around 140 exercises for the student covering all of the topics treated together with an appendix of solutions *Advances in Quantum Computation* Kazem Mahdavi, Deborah Koslover, 2009-04-01 This volume

represents the talks given at the Conference on Interactions between Representation Theory Quantum Field Theory Category Theory Mathematical Physics and Quantum Information Theory held in September 2007 at the University of Texas at Tyler The papers in this volume written by top experts in the field address physical aspects mathematical aspects and foundational issues of quantum computation This volume will benefit researchers interested in advances in quantum computation and communication as well as graduate students who wish to enter the field of quantum computation

Explorations in Quantum Computing Colin P. Williams, 2010-12-07 By the year 2020 the basic memory components of a computer will be the size of individual atoms At such scales the current theory of computation will become invalid Quantum computing is reinventing the foundations of computer science and information theory in a way that is consistent with quantum physics the most accurate model of reality currently known Remarkably this theory predicts that quantum computers can perform certain tasks breathtakingly faster than classical computers and better yet can accomplish mind boggling feats such as teleporting information breaking supposedly unbreakable codes generating true random numbers and communicating with messages that betray the presence of eavesdropping This widely anticipated second edition of Explorations in Quantum Computing explains these burgeoning developments in simple terms and describes the key technological hurdles that must be overcome to make quantum computers a reality This easy to read time tested and comprehensive textbook provides a fresh perspective on the capabilities of quantum computers and supplies readers with the tools necessary to make their own foray into this exciting field Topics and features concludes each chapter with exercises and a summary of the material covered provides an introduction to the basic mathematical formalism of quantum computing and the quantum effects that can be harnessed for non classical computation discusses the concepts of quantum gates entangling power quantum circuits quantum Fourier wavelet and cosine transforms and quantum universality computability and complexity examines the potential applications of quantum computers in areas such as search code breaking solving NP Complete problems quantum simulation quantum chemistry and mathematics investigates the uses of quantum information including quantum teleportation superdense coding quantum data compression quantum cloning quantum negation and quantum cryptography reviews the advancements made towards practical quantum computers covering developments in quantum error correction and avoidance and alternative models of quantum computation This text reference is ideal for anyone wishing to learn more about this incredible perhaps ultimate computer revolution Dr Colin P Williams is Program Manager for Advanced Computing Paradigms at the NASA Jet Propulsion Laboratory California Institute of Technology and CEO of Xtreme Energetics Inc an advanced solar energy company Dr Williams has taught quantum computing and quantum information theory as an acting Associate Professor of Computer Science at Stanford University He has spent over a decade inspiring and leading high technology teams and building business relationships with and Silicon Valley companies Today his interests include terrestrial and Space based power generation quantum computing cognitive computing computational material design

visualization artificial intelligence evolutionary computing and remote olfaction He was formerly a Research Scientist at Xerox PARC and a Research Assistant to Prof Stephen W Hawking Cambridge University

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