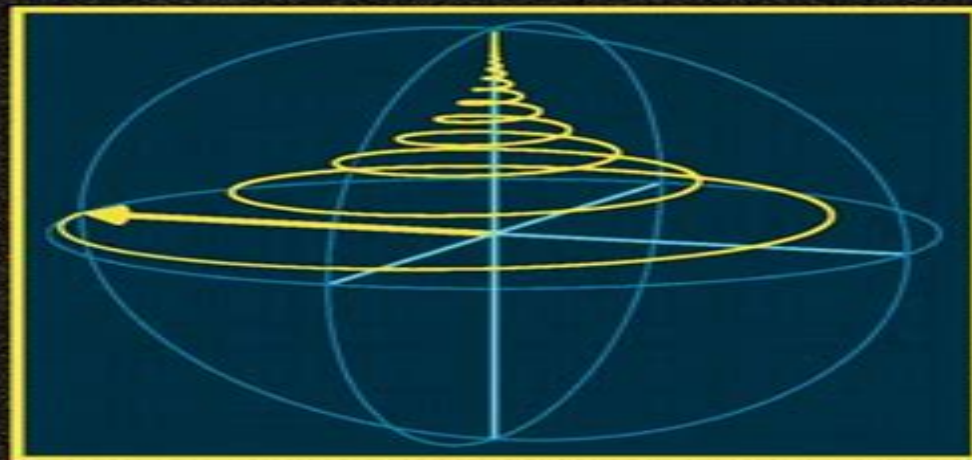


# EXPERIMENTAL ASPECTS OF QUANTUM COMPUTING

EDITED BY HENRY O. EVERITT



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# Experimental Aspects Of Quantum Computing

**Prem Kumar,G. Mauro D'Ariano,Osamu  
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## **Experimental Aspects Of Quantum Computing:**

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Special Issue on Experimental Aspects of Quantum Computing Henry O. Everitt, 2004

**Introduction to Quantum Computation and Information** Hoi-Kwong Lo, Tim Spiller, Sandu Popescu, 1998 The book fills a gap between the turgid prose of the burgeoning research literature and the superficial accounts in the popular press Nature 1999 The concepts introduced in this book and the forecast of future directions provided should continue to provide a good primer for the exciting breakthrough anticipated in this field Mathematics Abstracts 2001 Despite its age this book remains an excellent way to learn the basics of quantum information Quantum Information and Computation 2002

*Quantum Information Processing* János A. Bergou, Mark Hillery, Mark Saffman, 2021-09-14 This new edition of a well received textbook provides a concise introduction to both the theoretical and experimental aspects of quantum information at the graduate level While the previous edition focused on theory the book now incorporates discussions of experimental platforms Several chapters on experimental implementations of quantum information protocols have been added implementations using neutral atoms trapped ions optics and solidstate systems are each presented in its own chapter Previous chapters on entanglement quantum measurements quantum dynamics quantum cryptography and quantum algorithms have been thoroughly updated and new additions include chapters on the stabilizer formalism and the Gottesman Knill theorem as well as aspects of classical and quantum information theory To facilitate learning each chapter starts with a clear motivation to the topic and closes with exercises and a recommended reading list

Quantum Information Processing Theory and Implementation will be essential to graduate students studying quantum information as well as and researchers in other areas of physics who wish to gain knowledge in the field

**Quantum Computation and Quantum Communication:** Mladen Pavicic, 2007-01-15 The attraction of quantum computation and quantum communication theory and experiments lies in the fact that we engineer both them themselves and the quantum systems they treat. This approach has turned out to be very resilient. Driven by the final goal of calculating exponentially faster and communicating infinitely more securely than we do today as soon as we encounter a limitation in either a theory or experiment a new idea around the no-go emerges. As soon as the decoherence demon threatened the first computation models quantum error correction theory was formulated and applied not only to computation theory but also to communication theory to make it unconditionally secure. As soon as liquid state nuclear magnetic resonance experiments started to approach their limits solid based nuclear spin experiments the Kane computer came in. As soon as it was proved that it is theoretically impossible to completely distinguish photon Bell states three new approaches appeared: hyperentanglement, the use of continuous variables and the Knill-Laflamme-Milburn proposal. There are many more such examples. What facilitated all these breakthroughs is the fact that at the present stage of development of quantum computation and communication we deal with elementary quantum systems consisting of several two-level systems. The complexity of handling and controlling such simple systems in a laboratory has turned out to be tremendous but the basic physical models we follow and calculate for the systems themselves are not equally intricate.

**Light Scattering and Photon Correlation Spectroscopy** E.R. Pike, J.B. Abbiss, 2012-12-06 Since their inception more than 25 years ago photon correlation techniques for the spatial-temporal or spectral analysis of fluctuating light fields have found an ever widening range of applications. Using detectors which respond to single quanta of the radiation field these methods are intrinsically digital in nature and in many experimental situations offer a unique degree of accuracy and sensitivity not only for the study of primary light sources themselves but most particularly in the use of a laser beam probe to study light scattering from pure fluids, macromolecular suspensions and laminar or turbulent flowing fluids and gases. Following the earliest developments in laser scattering by dilute macromolecular suspensions in which particle sizing was the main aim and the use of photon correlation techniques for laser Doppler studies of flow and turbulence both of which areas were the subject of NATO ASI in Capri, Italy in 1983 and 1986 significant advances have been made in recent years in many other areas. These were reflected in the topics covered in this NATO Advanced Research Workshop which took place from August 2nd to 30th 1986 at the Jagiellonian University, Krakow, Poland. These included experimental techniques, statistics and data reduction, colloids and aggregation, polymers, gels, liquid crystals and mixtures, protein solutions, critical phenomena and dense media.

**ICT for Competitive Strategies** Durgesh Kumar Mishra, Nilanjan Dey, Bharat Singh Deora, Amit Joshi, 2020-05-05 Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state of the art

as well as emerging topics pertaining to information and communication technologies ICTs and effective strategies for its implementation for engineering and intelligent applications

**The Spin** Jean-Michel Raimond, Vincent Rivasseau, 2009-04-01 This book is the eighth in a series of Proceedings for the S eminaire Poincar e which is directed towards a large audience of physicists and of mathematicians The goal of this seminar is to provide up to date information about general topics of great interest in physics Both the theoretical and experimental aspects are covered with some historical background Inspired by the Bourbaki seminar in mathematics in its organization hence nicknamed Bourbaphy this Poincar e SeminarisheldattheInstitutHenriPoincar einParis withcontributionsprepared inadvance Particularcareisdevotedtothepedagogicalnatureofthepresentation so as to ful ll the goal of being readable by a large audience of scientists This new volume of the Poincar e Seminar series The Spin corresponds to the eleventh such Seminar held on December 8 2007 It describes how this once mysterious quantum reality called spin has become ubiquitous in modern physics from the most theoretical aspects down to the most practical applications of miniaturizing electronic and computer devices or helping medical diagnosis

**Mathematics for Future Computing and Communications** Liao Heng, Bill McColl, 2021-12-16 For 80 years mathematics has driven fundamental innovation in computing and communications This timely book provides a panorama of some recent ideas in mathematics and how they will drive continued innovation in computing communications and AI in the coming years It provides a unique insight into how the new techniques that are being developed can be used to provide theoretical foundations for technological progress just as mathematics was used in earlier times by Turing von Neumann Shannon and others Edited by leading researchers in the field chapters cover the application of new mathematics in computer architecture software verification quantum computing compressed sensing networking Bayesian inference machine learning reinforcement learning and many other areas

Quantum Computing and Quantum Bits in Mesoscopic Systems Anthony Leggett, Berardo Ruggiero, Paolo Silvestrini, 2012-12-06 Quantum information science is a new field of science and technology which requires the collaboration of researchers coming from different fields of physics mathematics and engineering both theoretical and applied Quantum Computing and Quantum Bits in Mesoscopic Systems addresses fundamental aspects of quantum physics enhancing the connection between the quantum behavior of macroscopic systems and information theory In addition to theoretical quantum physics the book comprehensively explores practical implementation of quantum computing and information processing devices On the experimental side this book reports on recent and previous observations of quantum behavior in several physical systems coherently coupled Bose Einstein condensates quantum dots superconducting quantum interference devices Cooper pair boxes and electron pumps in the context of the Josephson effect In these systems the book discusses all required steps from fabrication through characterization to the final basic implementation for quantum computing

*Mathematical Statistics and Applications* Constance van Eeden, Marc Moore, 2003

**Quantized Detector Networks** George Jaroszkiewicz, 2023-07-27 Explores how

the contextual nature of empirical truth and the laws of observation affect our understanding of quantum physics

Quantum Computing Jozef Gruska, 1999 This book takes a very broad view of quantum computing from very basic principles to algorithms automata networks quantum information and quantum processors Emerging Quantum Technologies Erwin Brüning, Francesco Petruccione, 2008 Quantum Computing Mikio Nakahara, Tetsuo Ohmi, 2008-03-11 Covering both theory and progressive experiments Quantum Computing From Linear Algebra to Physical Realizations explains how and why superposition and entanglement provide the enormous computational power in quantum computing This self contained classroom tested book is divided into two sections with the first devoted to the theoretical aspects of quantum computing and the second focused on several candidates of a working quantum computer evaluating them according to the DiVincenzo criteria Topics in Part I Linear algebra Principles of quantum mechanics Qubit and the first application of quantum information processing quantum key distribution Quantum gates Simple yet elucidating examples of quantum algorithms Quantum circuits that implement integral transforms Practical quantum algorithms including Grover's database search algorithm and Shor's factorization algorithm The disturbing issue of decoherence Important examples of quantum error correcting codes QECC Topics in Part II DiVincenzo criteria which are the standards a physical system must satisfy to be a candidate as a working quantum computer Liquid state NMR one of the well understood physical systems Ionic and atomic qubits Several types of Josephson junction qubits The quantum dots realization of qubits Looking at the ways in which quantum computing can become reality this book delves into enough theoretical background and experimental research to support a thorough understanding of this promising field **Compendium of Quantum Physics** Daniel Greenberger, Klaus Hentschel, Friedel Weinert, 2009-07-25 With contributions by leading quantum physicists philosophers and historians this comprehensive A to Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment It covers technical and interpretational aspects alike and includes both traditional and new concepts making it an indispensable resource for concise up to date information about the many facets of quantum physics

**IOOC-ECOC97, 11th International Conference on Integrated Optics and Optical Fibre [sic] Communications, 23rd European Conference on Optical Communications, 22-25 September 1997, Edinburgh International Conference Centre, UK** Institution of Electrical Engineers, 1997 A set of five volumes containing the proceedings of the Eleventh International Conference on Optics and Optical Fibre Communications and the Twenty Third European Conference on Optical Communication IOOC ECOC 97 There are 240 papers altogether **Quantum Communication, Computing, and Measurement 2** Prem Kumar, G. Mauro D'Ariano, Osamu Hirota, 2007-05-08 Based on the Fourth International Conference on Quantum Communication Measurement and Computing this volume brings together scientists working in the interdisciplinary fields of quantum communication science and technology Topics include quantum information theory quantum computing stochastic processes and filtering and quantum measurement theory *Quantum Computing* Joachim

Stolze,Dieter Suter,2008-09-26 The result of a lecture series this textbook is oriented towards students and newcomers to the field and discusses theoretical foundations as well as experimental realizations in detail The authors are experienced teachers and have tailored this book to the needs of students They present the basics of quantum communication and quantum information processing leading readers to modern technical implementations In addition they discuss errors and decoherence as well as methods of avoiding and correcting them

## Unveiling the Magic of Words: A Review of "**Experimental Aspects Of Quantum Computing**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Experimental Aspects Of Quantum Computing**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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