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Les Houches



Session LXIII

quantum fluctuations

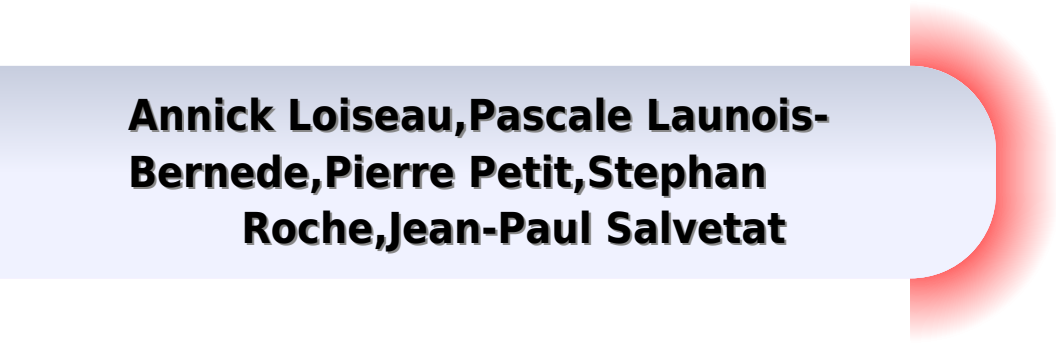
S. Reynaud, E. Giacobino  
and J. Zinn-Justin

Editors

North-Holland

# Quantum Fluctuations Les Houches Session Lxiii

**Annick Loiseau, Pascale Launois-  
Bernede, Pierre Petit, Stephan  
Roche, Jean-Paul Salvetat**



## **Quantum Fluctuations Les Houches Session Lxiii:**

*Coherence and Quantum Optics VIII* N.P. Bigelow, J.H. Eberly, C.R. Stroud Jr., I.A. Walmsley, 2012-12-06 The Eighth Rochester Conference on Coherence and Quantum Optics was held on the campus of the University of Rochester during the period June 13-16, 2001. This volume contains the proceedings of the meeting. The meeting was preceded by an affiliated conference, the International Conference on Quantum Information, with some overlapping sessions on June 13. The proceedings of the affiliated conference will be published separately by the Optical Society of America. A few papers that were presented in common plenary sessions of the two conferences will be published in both proceedings volumes. More than 268 scientists from 28 countries participated in the week-long discussions and presentations. This Conference differed from the previous seven in the CQO series in several ways, the most important of which was the absence of Leonard Mandel. Professor Mandel died a few months before the conference. A special memorial symposium in his honor was held at the end of the conference. The presentations from that symposium are included in this proceedings volume. An innovation that we believe made an important contribution to the conference was the inclusion of a series of invited lectures chaired by CQO founder Emil Wolf, reviewing the history of the fields of coherence and quantum optics before about 1970. These were given by three prominent participants in the development of the field: C. Cohen-Tannoudji, I. F. Clauser, and R. J. Glauber.

*Waves and Imaging through Complex Media* P. Sebbah, 2012-12-06 Recent advances in wave propagation in random media are certainly consequences of new approaches to fundamental issues as well as of a strong interest in potential applications. A collective effort has been made to present in this book the state of the art in fundamental concepts as well as in biomedical imaging techniques. As an example, the recent introduction of wave chaos and, more specifically, random matrix theory, an old tool from nuclear physics to the study of multiple scattering, has pointed the way to a deeper understanding of wave coherence in complex media. At the same time, efficient new approaches for retrieving information from random media promise to allow wave imaging of small tumors in opaque tissues. Review chapters are written by experts in the field with the aim of making the book accessible to the widest possible scientific audience: graduate students and research scientists in theoretical and applied physics, optics, acoustics, and biomedical physics.

Understanding Carbon Nanotubes Annick Loiseau, Pascale Launois-Bernede, Pierre Petit, Stephan Roche, Jean-Paul Salvetat, 2006-08-29 This volume presents the foundations of carbon nanotube science, reviewing recent developments and prospects for practical application. Each chapter summarizes relevant concepts from physics, chemistry, or materials science, followed by detailed reports on topics including polymorphism and microstructure of carbon, synthesis and growth, structural analysis by electron microscopy, spectroscopic methods, electronic structure, transport, mechanical, and surface properties of nanotubes and composites.

**Decoherence and Time-Resolved Readout in Superconducting Quantum Circuits (Dekohärenz und Zeitaufgelöste Quantenmessung in Supraleitenden Schaltkreisen)** Georg M. Reuther, 2011 Superconducting quantum circuits are

promising candidates for solid state based quantum computation However minimizing dissipation caused by external noise sources remains a tough challenge Here we present an analytic dissipative theory for a complex circuit of two resonators coupled via a flux qubit In this quantum switch the qubit acts as a tunable coupler between the resonators which enables switching their interaction on and off A natural application of this setup is to create entangled two resonator states However it turns out that even if the qubit has no dynamics qubit dissipation affects the resonators to a considerable degree For successful quantum information processing it is desirable to demonstrate the coherence of qubit time evolution in single shot experiments without too much backaction on the qubit In the second part of this thesis we present a novel scheme for a time resolved single run measurement of coherent qubit dynamics For a charge qubit probed by a weak high frequency signal we find that the reflected outgoing signal possesses a time dependent phase shift that is proportional to a qubit observable A similar approach is presented for a flux qubit coupled to a resonantly driven high frequency oscillator which serves as a meter device for monitoring the time resolved qubit dynamics

**Proceedings Of The V Wigner Symposium** Peter Kasperkovitz, Dietrich Grau, 1998-06-30 The Wigner Symposia deal with the most recent developments in those mathematical areas which were introduced to physics by E P Wigner and also with related fields The central themes of the proceedings of the 5th Wigner Symposium WigSym5 are quantum algebras and groups group theoretical developments quantum field theory and geometry and phase space formulations of quantum mechanics The proceedings also contain papers on the application of these techniques in various branches of physics and many contributions in which fundamental mathematical and epistemological questions related to the foundations of quantum theory are discussed *Aspects topologiques de la physique en basse dimension. Topological aspects of low dimensional systems* A. Comtet, T. Jolicœur, S. Ouvry, F. David, 2003-07-01 Session LXIX 7 31 July 1998 Introductory Quantum Optics Christopher Gerry, Peter L. Knight, 2005 Publisher Description The Oxford Handbook of Small Superconductors A. V. Narlikar, 2017 Mesoscopic superconductors achieve a level of smallness that reveals the dominance of strange quantum effects In a world driven by the miniaturization of electronic device technology small superconductors acquire great relevance and timeliness for the development of groundbreaking novel quantum devices Controlling the Effective Hamiltonian of a Driven Quantum Superconducting Circuit Jayameenakshi Venkatraman, 2025-04-25 The thesis illustrates with a remarkable combination of theoretical analysis and experimental investigation how the static Hamiltonian of an oscillator with both 3rd and 4th order non linearity can morph into a profoundly different Hamiltonian under the influence of an oscillating driving force In a classical system such transformation would not be considered a novelty but the author demonstrates that the new Hamiltonian can possess an exotic symmetry with surprising new quantum properties that one would never anticipate from the original Hamiltonian with no classical equivalent The root cause of these unexpected properties is a subtle interference effect which is only possible in a quantum context Carefully crafted control experiments ensure that measured data are compared with theoretical

predictions with no adjustable parameters Instrumental in this comparison is a new diagrammatic theory developed by the author     *Quantum Entanglement and Information Processing* ,2004-11-05 It has been recognised recently that the strange features of the quantum world could be used for new information transmission or processing functions such as quantum cryptography or more ambitiously quantum computing These fascinating perspectives renewed the interest in fundamental quantum properties and lead to important theoretical advances such as quantum algorithms and quantum error correction codes On the experimental side remarkable advances have been achieved in quantum optics solid state physics or nuclear magnetic resonance This book presents the lecture notes of the Les Houches Summer School on Quantum entanglement and information processing Following the long tradition of the les Houches schools it provides a comprehensive and pedagogical approach of the whole field written by renowned specialists One major goal of this book is to establish connections between the communities of quantum optics and of quantum electronic devices working in the area of quantum computing When two communities share the same goals the universality of physics unavoidably leads to similar developments However the communication barrier is often high and few physicists are able to overcome it This school has contributed to bridge the existing gap between communities for the benefit of the future actors in the field of quantum computing The book thus combines introductory chapters providing the reader with a sufficiently wide theoretical framework in quantum information quantum optics and quantum circuits physics with more specialized presentations of recent theoretical and experimental advances in the field This structure makes the book accessible to any graduate student having a good knowledge of basic quantum mechanics and extremely useful to researchers Covers quantum optics solid state physics and NMR implementations Pedagogical approach combining introductory lectures and advanced chapters Written by leading experts in the field Accessible to all graduate students with a basic knowledge of quantum mechanics     **Introductory Quantum Optics** Christopher C. Gerry, Peter L. Knight, 2023-11-30 This established textbook provides an accessible but comprehensive introduction to the quantum nature of light and its interaction with matter The field of quantum optics is covered with clarity and depth from the underlying theoretical framework of field quantization atom field interactions and quantum coherence theory to important and modern applications at the forefront of current research such as quantum interferometry squeezed light quantum entanglement cavity quantum electrodynamics laser cooled trapped ions and quantum information processing The text is suitable for advanced undergraduate and graduate students and would be an ideal main text for a course on quantum optics This long awaited second edition builds upon the success of the first edition including many new developments in the field particularly in the area of quantum state engineering Additional homework problems have been added and content from the first edition has been updated and clarified throughout     Quantum Fluctuations S. Reynaud, E. Giacobino, Jean Zinn-Justin, 1997-06-09 Quantum fluctuations are present in many domains of physics In recent years there has been significant progress in the theoretical and experimental study of these fluctuations in optics electronics atomic

physics metrology relativity and cosmology Quantum fluctuations are now observed and measured in experiments and also modified and manipulated using elaborate techniques These proceedings bring together young scientists who together examine new techniques and the latest research in the field Among the topics covered are the methods used to treat quantum fluctuations in optical systems the recent development of the quantum stochastic methods the interaction of light with nonlinear materials the generation of sub Poisson photon statistics in lasers through the pumping mechanism the problem of measurement of electromagnetic fields the problems of instabilities turbulence and chaos the analysis of phenomena related to gravity inertia and cosmology

Quantum Simulations with Photons and Polaritons Dimitris G. Angelakis, 2017-05-03 This book reviews progress towards quantum simulators based on photonic and hybrid light matter systems covering theoretical proposals and recent experimental work Quantum simulators are specially designed quantum computers Their main aim is to simulate and understand complex and inaccessible quantum many body phenomena found or predicted in condensed matter physics materials science and exotic quantum field theories Applications will include the engineering of smart materials robust optical or electronic circuits deciphering quantum chemistry and even the design of drugs Technological developments in the fields of interfacing light and matter especially in many body quantum optics have motivated recent proposals for quantum simulators based on strongly correlated photons and polaritons generated in hybrid light matter systems The latter have complementary strengths to cold atom and ion based simulators and they can probe for example out of equilibrium phenomena in a natural driven dissipative setting This book covers some of the most important works in this area reviewing the proposal for Mott transitions and Luttinger liquid physics with light to simulating interacting relativistic theories topological insulators and gauge field physics The stage of the field now is at a point where on top of the numerous theory proposals experiments are also reported Connecting to the theory proposals presented in the chapters the main experimental quantum technology platforms developed from groups worldwide to realize photonic and polaritonic simulators in the laboratory are also discussed These include coupled microwave resonator arrays in superconducting circuits semiconductor based polariton systems and integrated quantum photonic chips This is the first book dedicated to photonic approaches to quantum simulation reviewing the fundamentals for the researcher new to the field and providing a complete reference for the graduate student starting or already undergoing PhD studies in this area

Physics Of Hadrons And Qcd - Proceedings Of The Apctp-rcnp Joint International School And 1998 Yitp Workshop Makoto Oka, Hiroyuki Yabu, T Matsui, Kazunori Itakura, 1999-09-17 The purpose of the School and Workshop was to study recent topics in QCD and hadron physics from various points of view The subjects included perturbative and nonperturbative aspects of QCD chiral effective theory in hadron physics and high temperature and density nuclear matter physics Another purpose was to enhance communications and collaborations among researchers in the Asia and Oceania region

*Quantum Optics and Nanophotonics* Claude Fabre, Vahid Sandoghdar, Nicolas Treps, Leticia F. Cugliandolo, 2017-09-15 Quantum Optics and

Nanophotonics consists of the lecture notes of the Les Houches Summer School 101 held in August 2013. Some of the most eminent experts in this flourishing area of research have contributed chapters lying at the intersection of basic quantum science and advanced nanotechnology. The book is part of the renowned series of tutorial books that contain the lecture notes of all the Les Houches Summer Schools since the 1950s and cover the latest developments in physics and related fields.

*Casimir Physics* Diego Dalvit, Peter Milonni, David Roberts, Felipe da Rosa, 2011-06-28. Casimir effects serve as primary examples of directly observable manifestations of the nontrivial properties of quantum fields and as such are attracting increasing interest from quantum field theorists, particle physicists and cosmologists. Furthermore, though very weak except at short distances, Casimir forces are universal in the sense that all material objects are subject to them. They are thus also an increasingly important part of the physics of atom surface interactions, while in nanotechnology they are being investigated not only as contributors to stiction but also as potential mechanisms for actuating microelectromechanical devices. While the field of Casimir physics is expanding rapidly, it has reached a level of maturity in some important respects: on the experimental side, where most sources of imprecision in force measurements have been identified as well as on the theoretical side, where for example semi-analytical and numerical methods for the computation of Casimir forces between bodies of arbitrary shape have been successfully developed. This book is then a timely and comprehensive guide to the essence of Casimir and Casimir-Polder physics that will have lasting value, serving the dual purpose of an introduction and reference to the field. While this volume is not intended to be a unified textbook but rather a collection of largely independent chapters written by prominent experts in the field, the detailed and carefully written articles adopt a style that should appeal to non-specialist researchers in the field as well as to a broader audience of graduate students. *Macroscopic Quantum*

*Coherence - Proceedings Of The International Conference* Yogendra Srivastava, E. Sassaroli, John Swain, Allan Widom, 1998-12-31. As the end of the nineteenth century neared, it was clear to many in the physics community that if only Newton's equations plus Maxwell's equations could be solved adequately, there would really be nothing very new in physics on a fundamental level. Then came relativity and quantum mechanics. As we now approach the end of the twentieth century, it is clear to many in the physics community that if one could adequately solve somebody's gauge field theory or somebody else's string model, then nothing fundamentally new would ever again enter into physics. To others in the physics community, it is somewhat doubtful that our present physical understanding of the world, especially of quantum mechanics, has reached such a pinnacle. This conference was organized to discuss the present state of affairs in our knowledge, both experimental and theoretical, of the basic tenets of quantum mechanics. Many fields of physics in which quantum mechanics plays a central role were included: i) atomic and molecular beams; ii) photon beams; iii) atomic interference in atom surface physics and atom wire physics; iv) Bose condensed systems; v) quantum 1/f noise; vi) quantum electrodynamics effects in water colloidal systems and biological systems; vii) quantum interference in neutrino physics; viii) periodic in time driven quantum systems; ix)

superconducting quantum circuits and x quantum computer circuit elements The large variety of different topics all of current importance allowed for various viewpoints that are usually not present when conferences devoted to narrower topics are held The cross fertilization of ideas was greatly appreciated by the participants and will be of equal interest to the reader of the proceedings

**Quantum Information and Quantum Optics with Superconducting Circuits** Juan José García Ripoll, 2022-08-18 Superconducting quantum circuits are among the most promising solutions for the development of scalable quantum computers Built with sizes that range from microns to tens of metres using superconducting fabrication techniques and microwave technology superconducting circuits demonstrate distinctive quantum properties such as superposition and entanglement at cryogenic temperatures This book provides a comprehensive and self contained introduction to the world of superconducting quantum circuits and how they are used in current quantum technology Beginning with a description of their basic superconducting properties the author then explores their use in quantum systems showing how they can emulate individual photons and atoms and ultimately behave as qubits within highly connected quantum systems Particular attention is paid to cutting edge applications of these superconducting circuits in quantum computing and quantum simulation Written for graduate students and junior researchers this accessible text includes numerous homework problems and worked examples

**The Limits of Resolution** Geoffrey de Villiers, E. Roy Pike, 2016-10-03 This beautiful book can be read as a novel presenting carefully our quest to get more and more information from our observations and measurements Its authors are particularly good at relating it Pierre C Sabatier This is a unique text a labor of love pulling together for the first time the remarkably large array of mathematical and statistical techniques used for analysis of resolution in many systems of importance today optical acoustical radar etc I believe it will find widespread use and value Dr Robert G W Brown Chief Executive Officer American Institute of Physics The mix of physics and mathematics is a unique feature of this book which can be basic not only for PhD students but also for researchers in the area of computational imaging Mario Bertero Professor University of Geneva a tour de force covering aspects of history mathematical theory and practical applications The authors provide a penetrating insight into the often confused topic of resolution and in doing offer a unifying approach to the subject that is applicable not only to traditional optical systems but also modern day computer based systems such as radar and RF communications Prof Ian Proudler Loughborough University a must have for anyone interested in imaging and the spatial resolution of images This book provides detailed and very readable account of resolution in imaging and organizes the recent history of the subject in excellent fashion I strongly recommend it Michael A Fiddy Professor University of North Carolina at Charlotte This book brings together the concept of resolution which limits what we can determine about our physical world with the theory of linear inverse problems emphasizing practical applications The book focuses on methods for solving illposed problems that do not have unique stable solutions After introducing basic concepts the contents address problems with continuous data in detail before turning to cases of discrete data sets As one of the unifying principles of the text the



authors explain how non uniqueness is a feature of measurement problems in science where precision and resolution is essentially always limited by some kind of noise      *Quantum Sensing Experiments with Superconducting Qubits* Schneider, Andre, 2021-06-04 Quantum sensing is a vast and emerging field enabling in situ studies of quantum systems and hence the development of quantum hybrid systems This work creates the fundament of direct superconducting magnetic hybrid systems by developing a local microwave sensing scheme and studying the influence of a static magnetic field on a superconducting qubit Finally a proof of principle hybrid system is demonstrated which opens the path towards superconducting magnetic quantum circuits

## The Enigmatic Realm of **Quantum Fluctuations Les Housches Session Lxiii**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Quantum Fluctuations Les Housches Session Lxiii** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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