

fluctuations quantiques

Les Houches



Session LXIII

quantum fluctuations

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Quantum Fluctuations Les Houches Session Lxiii

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Quantum Fluctuations Les Houches Session Lxiii:

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

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 1950 s and cover the latest developments in physics and related fields

Mesoscopic Electron Transport Lydia L. Sohn,Leo P. Kouwenhoven,Gerd Schön,2013-06-29 Ongoing developments in nanofabrication technology and the availability of novel materials have led to the emergence and evolution of new topics for mesoscopic research including scanning tunnelling microscopic studies of few atom metallic clusters discrete energy level spectroscopy the prediction of Kondo type physics in the transport properties of quantum dots time dependent effects and the properties of interacting systems e g of Luttinger liquids The overall understanding of each of these areas is still incomplete nevertheless with the foundations laid by studies in the more traditional systems there is no doubt that these new

areas will advance mesoscopic electron transport to a new phenomenological level both experimentally and theoretically Mesoscopic Electron Transport highlights selected areas in the field provides a comprehensive review of such systems and also serves as an introduction to the new and developing areas of mesoscopic electron transport **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 ground breaking novel quantum devices

Aspects topologiques de la physique en basse dimension. Topological aspects of low dimensional systems A. Comtet, T. Jolicoeur, S. Ouvry, F. David, 2003-07-01 Session LXIX 7 31 July 1998 *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

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

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

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

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 micro electromechanical 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

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 *Multiqubit experiments in 3D circuit quantum electrodynamics* Jacob Blumoff,2017-08-20 This thesis describes experimental work done in the field of quantum computing with three dimensional circuit quantum electrodynamics devices

QCD Perspectives on Hot and Dense Matter Jean-Paul Blaizot,Edmond Iancu,2002-11-30 Many facets of quantum chromodynamics QCD are relevant to the in depth discussion of theoretical and experimental aspects of high energy nucleus nucleus collisions Exciting phenomena are being discovered in such ultrarelativistic heavy ion collisions notably the increasingly important role of deconfined quark gluon matter created in the early stage The book contains lectures on the physics of hot dense matter the expected phase transitions and colour superconductivity recent developments in the treatment of nonlinear effects at large parton densities fundamental issues in the phenomenology of ultrarelativistic heavy collisions The latest data on heavy ion collisions are also

presented A unique collection of lectures on the many facets of QCD relevant to the physics of hot dense matter

Introductory Quantum Optics Christopher Gerry, Peter L. Knight, 2005 Publisher Description **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 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 *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 I Glauber **Symmetry in Quantum Optics Models** Lucas Lamata, 2019-11-21 Prototypical quantum optics models such as the Jaynes Cummings Rabi Tavis Cummings and Dicke models are commonly analyzed with

diverse techniques including analytical exact solutions mean field theory exact diagonalization and so on Analysis of these systems strongly depends on their symmetries ranging e g from a $U(1)$ group in the Jaynes Cummings model to a Z_2 symmetry in the full fledged quantum Rabi model In recent years novel regimes of light matter interactions namely the ultrastrong and deep strong coupling regimes have been attracting an increasing amount of interest The quantum Rabi and Dicke models in these exotic regimes present new features such as collapses and revivals of the population bounces of photon number wave packets as well as the breakdown of the rotating wave approximation Symmetries also play an important role in these regimes and will additionally change depending on whether the few or many qubit systems considered have associated inhomogeneous or equal couplings to the bosonic mode Moreover there is a growing interest in proposing and carrying out quantum simulations of these models in quantum platforms such as trapped ions superconducting circuits and quantum photonics In this Special Issue Reprint we have gathered a series of articles related to symmetry in quantum optics models including the quantum Rabi model and its symmetries Floquet topological quantum states in optically driven semiconductors the spin boson model as a simulator of non Markovian multiphoton Jaynes Cummings models parity assisted generation of nonclassical states of light in circuit quantum electrodynamics and quasiprobability distribution functions from fractional Fourier transforms

Quantum Approach to Informatics Stig Stenholm, Kalle-Antti Suominen, 2005-08-19 An essential overview of quantum information Information whether inscribed as a mark on a stone tablet or encoded as a magnetic domain on a hard drive must be stored in a physical object and thus made subject to the laws of physics Traditionally information processing such as computation occurred in a framework governed by laws of classical physics However information can also be stored and processed using the states of matter described by non classical quantum theory Understanding this quantum information a fundamentally different type of information has been a major project of physicists and information theorists in recent years and recent experimental research has started to yield promising results Quantum Approach to Informatics fills the need for a concise introduction to this burgeoning new field offering an intuitive approach for readers in both the physics and information science communities as well as in related fields Only a basic background in quantum theory is required and the text keeps the focus on bringing this theory to bear on contemporary informatics Instead of proofs and other highly formal structures detailed examples present the material making this a uniquely accessible introduction to quantum informatics Topics covered include An introduction to quantum information and the qubit Concepts and methods of quantum theory important for informatics The application of information concepts to quantum physics Quantum information processing and computing Quantum gates Error correction using quantum based methods Physical realizations of quantum computing circuits A helpful and economical resource for understanding this exciting new application of quantum theory to informatics Quantum Approach to Informatics provides students and researchers in physics and information science as well as other interested readers with some scientific background with an essential overview of the

field **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

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