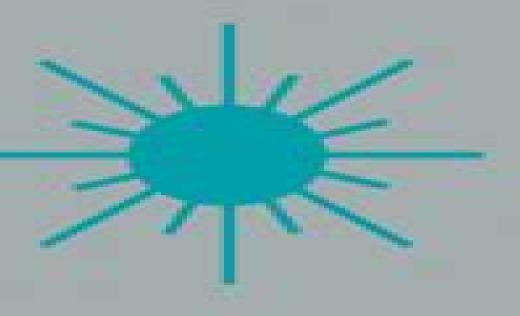
Measuring the Quantum State of Light

Ulf Leonhardt



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Measuring The Quantum State Of Light:

Measuring the Quantum State of Light Ulf Leonhardt, 1997-07-13 Appendix A Semiclassical approximation Theory of Nonclassical States of Light V.V. Dodonov, V.I. Man'ko, 2003-03-13 The term nonclassical states refers to the quantum states that cannot be produced in the usual sources of light such as lasers or lamps rather than those requiring more sophisticated apparatus for their production Theory of Non classical States of Light describes the current status of the theory of nonclassical states of light including many n Characterization of Quantum States of Light Rob Adamson, 2009 I present a series of experimental and theoretical advances in the field of quantum state estimation Techniques for measuring the quantum state of light that were originally developed for distinguishable photons fail when the particles are indistinguishable I develop new methods for handling indistinguishability in quantum state estimation The technique I present provides the first complete description of states of experimentally indistinguishable photons It allows me to derive the number of parameters needed to describe an arbitrary state and to quantify distinguishability I demonstrate its use by applying it to the measurement of the quantum polarization state of two and three photon systems State characterization is optimal when no redundant information is collected about the state of the system I present the results of the first optimal characterization of the polarization state of a two photon system I show an improved estimation power over the previous state of the art I also show how the optimal measurements lead to a new description of the quantum state in terms of a discrete Wigner function It is often desirable to describe the quantum state of a system in terms of properties that are not themselves quantum mechanical observables This usually requires a full characterization of the state followed by a calculation of the properties from the parameters characterizing the state I apply a technique that allows such properties to be determined directly without a full characterization of the state This allows one such property the purity to be determined in a single measurement regardless of the size of the system while the conventional method of determining purity requires a number of measurements that scales exponentially with the system size **Characterization of Quantum States of Light** Rob Adamson, 2009 I present a series of experimental and theoretical advances in the field of guantum state estimation Techniques for measuring the quantum state of light that were originally developed for distinguishable photons fail when the particles are indistinguishable I develop new methods for handling indistinguishability in quantum state estimation The technique I present provides the first complete description of states of experimentally indistinguishable photons It allows me to derive the number of parameters needed to describe an arbitrary state and to quantify distinguishability I demonstrate its use by applying it to the measurement of the quantum polarization state of two and three photon systems State characterization is optimal when no redundant information is collected about the state of the system I present the results of the first optimal characterization of the polarization state of a two photon system I show an improved estimation power over the previous state of the art I also show how the optimal measurements lead to a new description of the quantum state in

terms of a discrete Wigner function It is often desirable to describe the quantum state of a system in terms of properties that are not themselves quantum mechanical observables. This usually requires a full characterization of the state followed by a calculation of the properties from the parameters characterizing the state I apply a technique that allows such properties to be determined directly without a full characterization of the state This allows one such property the purity to be determined in a single measurement regardless of the size of the system while the conventional method of determining purity requires a number of measurements that scales exponentially with the system size Photonics, Volume 1 David L. Andrews, 2015-01-16 Covers modern photonics accessibly and discusses the basic physical principles underlying all the applications and technology of photonics This volume covers the basic physical principles underlying the technology and all applications of photonics from statistical optics to quantum optics. The topics discussed in this volume are Photons in perspective Coherence and Statistical Optics Complex Light and Singular Optics Electrodynamics of Dielectric Media Fast and slow Light Holography Multiphoton Processes Optical Angular Momentum Optical Forces Trapping and Manipulation Polarization States Quantum Electrodynamics Quantum Information and Computing Quantum Optics Resonance Energy Transfer Surface Optics Ultrafast Pulse Phenomena Comprehensive and accessible coverage of the whole of modern photonics Emphasizes processes and applications that specifically exploit photon attributes of light Deals with the rapidly advancing area of modern optics Chapters are written by top scientists in their field Written for the graduate level student in physical sciences Industrial and academic researchers in photonics graduate students in the area College lecturers educators policymakers consultants Scientific and technical libraries government laboratories NIH **Quantum Optics in Phase Space** Wolfgang P. Schleich, 2015-12-11 Quantum Optics in Phase Space provides a concise introduction to the rapidly moving field of quantum optics from the point of view of phase space Modern in style and didactically skillful Quantum Optics in Phase Space prepares students for their own research by presenting detailed derivations many illustrations and a large set of workable problems at the end of each chapter Often the theoretical treatments are accompanied by the corresponding experiments An exhaustive list of references provides a guide to the literature Quantum Optics in Phase Space also serves advanced researchers as a comprehensive reference book Starting with an extensive review of the experiments that define quantum optics and a brief summary of the foundations of quantum mechanics the author Wolfgang P Schleich illustrates the properties of quantum states with the help of the Wigner phase space distribution function His description of waves ala WKB connects semi classical phase space with the Berry phase These semi classical techniques provide deeper insight into the timely topics of wave packet dynamics fractional revivals and the Talbot effect Whereas the first half of the book deals with mechanical oscillators such as ions in a trap or atoms in a standing wave the second half addresses problems where the quantization of the radiation field is of importance Such topics extensively discussed include optical interferometry the atom field interaction quantum state preparation and measurement entanglement decoherence the one atom maser and atom

optics in quantized light fields Quantum Optics in Phase Space presents the subject of quantum optics as transparently as possible Giving wide ranging references it enables students to study and solve problems with modern scientific literature The result is a remarkably concise yet comprehensive and accessible text and reference book an inspiring source of information and insight for students teachers and researchers alike The Nature of Light Chandra Roychoudhuri, A.F. Kracklauer, Kathy Creath, 2017-12-19 Focusing on the unresolved debate between Newton and Huygens from 300 years ago The Nature of Light What is a Photon discusses the reality behind enigmatic photons It explores the fundamental issues pertaining to light that still exist today Gathering contributions from globally recognized specialists in electrodynamics and quantum optics the book begins by clearly presenting the mainstream view of the nature of light and photons It then provides a new and challenging scientific epistemology that explains how to overcome the prevailing paradoxes and confusions arising from the accepted definition of a photon as a monochromatic Fourier mode of the vacuum The book concludes with an array of experiments that demonstrate the innovative thinking needed to examine the wave particle duality of photons Looking at photons from both mainstream and out of box viewpoints this volume is sure to inspire the next generation of quantum optics scientists and engineers to go beyond the Copenhagen interpretation and formulate new conceptual ideas about light matter interactions and substantiate them through inventive applications Erwin Schrödinger's World View Johann Götschl, 2012-12-06 Erwin Schr dinger is one of the greatest figures of theoretical physics but there is another side to the man not only did his work revolutionize physics it also radiacally changed the foundations of our modern worldview modern biology philosophy of science philosophy of the mind and epistemology This book explores the lesser known aspects of Schr dinger's thought revealing the physicist as a philosopher and polymath whose highly original ideas anticipated the current merging of the natural and the social sciences and the humanities Thirteen renowned scientists and philosophers have contributed to the volume Part I reveals the philosophical importance of Schr dinger's work as a physicist Part II examines his theory of life and of the self organization of matter Part III shows how Schr dinger's ideas have influenced contemporary philosophy of nature and our modern view of the world drawing a fascinating picture of the ongoing synthesis of nature and culture one of the most interesting developments of modern thought The volume also contains the most comprehensive bibliography of Schr dinger's scientific work making it at the same time a book of acute contemporary relevance and a major work of reference Advances in Atomic, Molecular, and Optical Physics ,2006-01-13 This volume of Advances in Atomic Molecular and Optical Physics continues the tradition of the Advances series It contains contributions from experts in the field of atomic molecular and optical AMO physics The articles contain some review material but are intended to provide a comprehensive picture of recent important developments in AMO physics Both theoretical and experimental articles are included in the volume International experts Comprehensive articles New developments Advances in Intelligent Systems and Computing V Natalya Shakhovska, Mykola O. Medykovskyy, 2020-12-22 This book reports on new theories and

applications in the field of intelligent systems and computing It covers cutting edge computational and artificial intelligence methods advances in computer vision big data cloud computing and computation linguistics as well as cyber physical and intelligent information management systems. The respective chapters are based on selected papers presented at the workshop on intelligent systems and computing held during the International Conference on Computer Science and Information Technologies CSIT 2020 which was jointly organized on September 23 26 2020 by the Lviv Polytechnic National University Ukraine the Kharkiv National University of Radio Electronics Ukraine and the Technical University of Lodz Poland under patronage of Ministry of Education and Science of Ukraine Given its breadth of coverage the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems and is sure to foster new discussions and collaborations among different groups Noise, Dynamics and Squeezed Light in Quantum Dot and **Interband Cascade Lasers** Shiyuan Zhao, 2024-08-16 This book provides a comprehensive analysis of quantum confined semiconductor lasers focusing on quantum dot lasers ODLs and interband quantum cascade lasers ICLs Through theoretical and numerical exploration the author scrutinizes the amplitude and frequency noise spectra studies the dynamics induced by delayed optical reinjection and investigates the generation of squeezed states for both laser types Notably his predictions align with experimental results demonstrating the robustness of this approach Structured meticulously the book begins with an overview of QDL and ICL technology followed by in depth chapters on classical noise and dynamics and quantum aspects particularly the generation of squeezed states Clearly written the text strikes a balance between words and equations maintaining accessibility without sacrificing depth It includes an extensive bibliography a testament to the thoroughness of the research and a useful feature for all newcomers to the field Waves and Particles in Light and Matter Augusto Garuccio, Alwyn van der Merwe, 2012-12-06 From September 24 through 30 1992 the Workshop on Waves and Parti cles in Light and Matter was held in the Italian city of Trani in celebration of the centenary of Louis de Broglie s birth As is well known the relationship between quantum theory and objective reality was one of the main threads running through the researches of this French physicist It was therefore in a fitting tribute to him on his 90th birthday that ten years ago an international conference on the same subject was convened in Perugia On that occasion physicists from all over the world interested in the problematics of wave particle duality engaged in thoughtful debates the proceedings of which were subsequently published on recent theoretical and experimental developments in our understanding of the foundations of quantum mechanics This time around about 120 scientists coming from 5 continents in the warm and pleasant atmosphere of Trani s Colonna Conference Center focussed their discussions on recent results concerned with the EPR para dox matter interferometry reality of de Broglie s waves photon detection macroscopic quantum coherence alternative theories to usual quantum mechanics special relativity state reduction and other related topics. The workshop was organized in plenary sessions round tables and poster sessions and the present volume collects most but not all of the presented papers A number

of acknowledgements are due We thank first of all the contributors without whose constant dedication this volume could not have been published Structured Light for Optical Communication Mohammad D. Al-Amri, Mohamed Babiker, David Andrews, 2021-06-18 Structured Light for Optical Communication highlights principles and applications in the rapidly evolving field of structured light in wide ranging contexts from classical forms of communication to new frontiers of quantum communication Besides the basic principles and applications the book covers the background of structured light in its most common forms as well as state of the art developments Structured light has been hailed as affording outstanding prospects for the realization of high bandwidth communication enhanced tools for more highly secure cryptography and exciting opportunities for providing a reliable platform for quantum computing This book is a valuable resource for graduate students and other active researchers as well as others who may be interested in learning about this cutting edge research field Broadly covers the use of structured light in communication applications Highlights quantum and photonics principles emerging and future applications Assesses the major challenges of using structured light for communication applications

First International Workshop on Classical and Quantum Interference Jan Peřina, Miroslav Hrabovský, Jaromír Křepelka, 2002 James Beattie 1735 1803 was a key figure in the Scottish Enlightenment He was a popular philosophical opponent of David Hume and through his famous poem The Minstrel he had a lasting influence on Wordsworth and the Romantics Beattie lived among the great literati of the time and his wide correspondence provides a treasure trove of information about his contemporaries For the past 200 years our principal access to this material has been William Forbes s two volume Life and Writings of James Beattie 1806 Useful though Forbes s work has been it represents only the tip of the iceberg of Beattie's vast correspondence And because Forbes was guided by his personal friendship with Beattie he left out many of the most controversial and crucial pieces **Strong Light-matter Coupling: From Atoms To Solid-state** Systems Leong-chuan Kwek, Alexia Auffeves, Dario Gerace, Maxime Richard, Stefano Portolan, Marcelo Franca Santos, Christian Miniature, 2013-12-23 The physics of strong light matter coupling has been addressed in different scientific communities over the last three decades Since the early eighties atoms coupled to optical and microwave cavities have led to pioneering demonstrations of cavity quantum electrodynamics Gedanken experiments and building blocks for quantum information processing for which the Nobel Prize in Physics was awarded in 2012 In the framework of semiconducting devices strong coupling has allowed investigations into the physics of Bose gases in solid state environments and the latter holds promise for exploiting light matter interaction at the single photon level in scalable architectures More recently impressive developments in the so called superconducting circuit QED have opened another fundamental playground to revisit cavity quantum electrodynamics for practical and fundamental purposes This book aims at developing the necessary interface between these communities by providing future researchers with a robust conceptual theoretical and experimental basis on strong light matter coupling both in the classical and in the quantum regimes In addition the emphasis is on new

forefront research topics currently developed around the physics of strong light matter interaction in the atomic and solid state scenarios Computing at the Speed of Light Barrett Williams, ChatGPT, 2024-12-06 Step into the future with Computing at the Speed of Light an illuminating guide to the groundbreaking world of quantum computing Delve into a realm where the boundaries of traditional computing are being dramatically redefined unlocking possibilities that once resided solely in the realm of science fiction This eBook is your comprehensive passport to understanding the revolutionary technology destined to reshape industries and redefine what s possible Begin your journey with an introduction to quantum mechanics and qubits the building blocks of tomorrow s computers Discover how quantum algorithms hold the potential to solve complex problems that classic computers simply cannot tackle Navigate the limitations of conventional computing and explore why our current technology has hit an efficiency barrier Venture further into the realm of superconductors materials that promise to accelerate quantum advancement Uncover the physics behind these miracle materials such as zero resistance and electron pairing and learn about their indispensable role in the development of quantum circuitry Chapters on superconducting materials like niobium and YBCO delve into their critical applications in quantum technologies Witness the birth of a new generation of quantum processors where speed and energy efficiency are the prizes Understand the precise control necessary over quantum states to achieve unprecedented processing power even at temperatures close to absolute zero Beyond the technical challenges and innovations explore this eBook s case studies that highlight real world implementations and pioneering companies at the forefront of this quantum frontier Anticipate the significant societal impacts and ethical considerations as quantum computing continues its rapid ascent transforming fields from cryptography to machine learning Computing at the Speed of Light is not just a glimpse into the future it s a guide through the quantum revolution that is unfolding today Embark on this journey and embrace the next quantum leap Advanced Free Space Optics (FSO) Arun K. Majumdar, 2014-09-10 This title provides a comprehensive unified tutorial covering the most recent advances in the emerging technology of free space optics FSO a field in which interest and attention continue to grow along with the number of new challenges This book is intended as an all inclusive source to serve the needs of those who require information about the fundamentals of FSO as well as up to date advanced knowledge of the state of the art in the technologies available today This text is intended for graduate students and will also be useful for research scientists and engineers with an interest in the field FSO communication is a practical solution for creating a three dimensional global broadband communications grid offering bandwidths far beyond what is possible in the Radio Frequency RF range However the attributes of atmospheric turbulence and scattering impose perennial limitations on availability and reliability of FSO links From a systems point of view this groundbreaking book provides a thorough understanding of channel behavior which can be used to design and evaluate optimum transmission techniques that operate under realistic atmospheric conditions Topics addressed include FSO Physical and Statistical Models Single Multiple Inputs Outputs Understanding FSO Theory and

Systems Analysis Modulation and Coding for Free Space Optical Channels Atmospheric Mitigation and Compensation for FSO Links Non line of sight NLOS Ultraviolet and Indoor FSO Communications FSO Platforms UAV and Mobile Retromodulators for Free Space Data links Hybrid Optical RF Communications Free space and Atmospheric Quantum Communications Other related topics Chaos based and Terahertz THz FSO Communications American Journal of Physics Quantum Information with Continuous Variables of Atoms and Light N. J. Cerf, Gerd Leuchs, E. S. Polzik, 2007 Quantum information describes the new field which bridges quantum physics and information science The quantum world allows for completely new architectures and protocols While originally formulated in continuous quantum variables the field worked almost exclusively with discrete variables such as single photons and photon pairs The renaissance of continuous variables came with European research consortia such as ACQUIRE Advanced Coherent Quantum Information Research in the late 1990s and QUICOV Quantum Information with Continuous Variables from 2000OCo2003 The encouraging research results of QUICOV and the new conference series CVQIP Continuous Variable Quantum Information Processing triggered the idea for this book This book presents the state of the art of quantum information with continuous quantum variables The individual chapters discuss results achieved in QUICOV and presented at the first five CVQIP conferences from 2002OCo2006 Many world leading scientists working on continuous variables outside Europe also Holography for the New Millennium Jacques Ludman, H. John Caulfield, Juanita contribute to the book Riccobono, 2006-04-28 A half century after its invention and after several waves of optimism and pessimism holography is now poised to achieve widespread application Holograms are now being used as tools in many industries from heads up displays in aircraft to directing interconnections in massively parallel computing Acoustic holograms can provide three dimensional images of internal organs without surgery or dangerous radiation and holography forms the basis of several other forms of nondestructive testing This book provides both a review of the development of the field and of the applications likely to be important in the 21st century It begins with a review by Dennis Leith one of the inventors of holography or re inventors after Denis Gabor's original work in 1947 Two chapters discuss the frontiers of holographic imaging including color holograms and stereographic movies Several subsequent chapters describe novel methods of forming and viewing holographic images including the use of low coherence sources or even computers to generate the holograms The book concludes with a sampling of new applications of holography including its uses in improving the efficiency of solar cells in nondestructive testing in improving the coherence properties of light in data storage and in investigations of fundamental physics

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