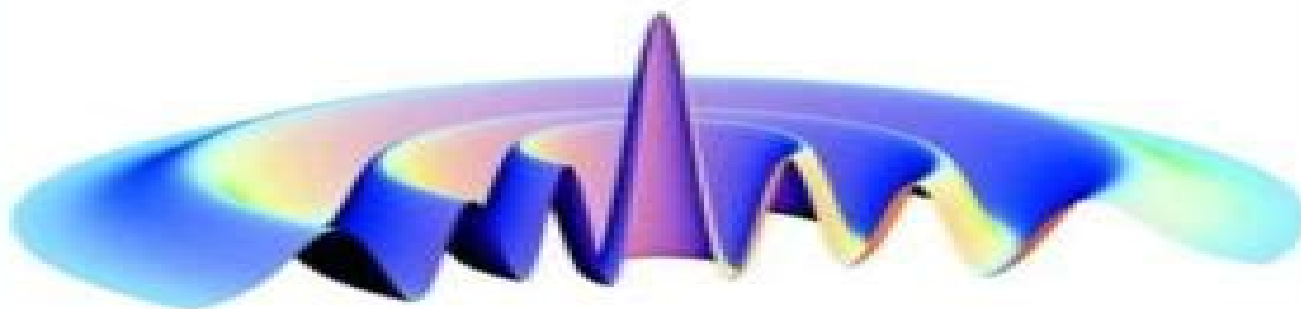


Wolfgang P. Schleich

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Quantum Phase and Phase Dependent Measurements Wolfgang Schleich, Stephen M. Barnett, 1993 **Quantum Optics In Phase Space** W.P. Schleich, **Concepts of Quantum Optics** P. L. Knight, L. Allen, 2013-09-24 Concepts of Quantum Optics is a coherent and sequential coverage of some real insight into quantum physics This book is divided into six chapters and begins with an overview of the principles and concepts of radiation and quanta with an emphasis on the significance of the Maxwell s electromagnetic theory of light The next chapter describes first the properties of the radiation field in a bounded cavity showing how each cavity field mode has the characteristics of a simple harmonic oscillator and how each can be quantized using known results for the quantum harmonic oscillator This chapter also deals with the quantum fluctuations of the radiation field and the interpretation of a photon as an occupation of a normal mode of the system These

topics are followed by discussions of the radiation absorption and emission and the principles of coherent state and coherence functions The final chapter considers the concept of semi classical theory and its connection to quantum electrodynamics This book is of value to undergraduate and postgraduate students who are starting research in laser physics or quantum optics Introduction to Quantum Optics Herch Moyses Nussenzveig,1973 **Quantum Optics** D.F. Walls,G.J. Milburn,2012-12-06 Quantum Optics gives a comprehensive coverage of developments in quantum optics over the past twenty years In the early chapters the formalism of quantum optics is elucidated and the main techniques are introduced These are applied in the later chapters to problems such as squeezed states of light resonance fluorescence laser theory quantum theory of four wave mixing quantum non demolition measurements Bell s inequalities and atom optics Experimental results are used to illustrate the theory throughout This yields the most comprehensive and up to date coverage of experiment and theory in quantum optics in any textbook *Introductory Quantum Optics* Christopher Gerry,Peter Knight,2004-10-28 This book provides an elementary introduction to the subject of quantum optics the study of the quantum mechanical nature of light and its interaction with matter The presentation is almost entirely concerned with the quantized electromagnetic field Topics covered include single mode field quantization in a cavity quantization of multimode fields quantum phase coherent states quasi probability distribution in phase space atom field interactions the Jaynes Cummings model quantum coherence theory beam splitters and interferometers dissipative interactions nonclassical field states with squeezing etc Schr dinger cat states tests of local realism with entangled photons from down conversion experimental realizations of cavity quantum electrodynamics trapped ions decoherence and some applications to quantum information processing particularly quantum cryptography The book contains many homework problems and an extensive bibliography This text is designed for upper level undergraduates taking courses in quantum optics who have already taken a course in quantum mechanics and for first and second year graduate students **The Phase Representation - a New QED - Approach to Quantum Optics** Van Cao Long,1980

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