

Vladislav Timofeev
Daniele Sanvitto *Editors*

Exciton Polaritons in Microcavities

New Frontiers

Exciton Polaritons In Microcavities New Frontiers
Springer Series In Solid State Sciences

Alberto Bramati, Michele Modugno



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Exciton Polaritons in Microcavities Daniele Sanvitto,Vladislav Timofeev,2012-05-01 In the past decade there has been a burst of new and fascinating physics associated to the unique properties of two dimensional exciton polaritons their recent demonstration of condensation under non equilibrium conditions and all the related quantum phenomena which have stimulated extensive research work This monograph summarizes the current state of the art of research on exciton polaritons in microcavities their interactions fast dynamics spin dependent phenomena temporal and spatial coherence condensation under non equilibrium conditions related collective quantum phenomena and most advanced applications The monograph is written by the most active authors who have strongly contributed to the advances in this area It is of great interests to both physicists approaching this subject for the first time as well as a wide audience of experts in other disciplines who want to be updated on this fast moving field

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

Physics of Quantum Fluids Alberto Bramati,Michele Modugno,2013-07-11 The study of quantum fluids stimulated by the discovery of superfluidity in liquid helium has experienced renewed interest after the observation of Bose Einstein condensation BEC in ultra cold atomic gases and the observation a new type of quantum fluid with specific characteristics derived from its intrinsic out of equilibrium nature The main objective of this book is to take a snapshot of the state of the art of this fast moving field with a special emphasis on the hot topics and new trends Bringing together the most active specialists of the two areas atomic and polaritonic quantum fluids we expect that this book will facilitate the exchange and the collaboration between these two communities working on subjects with very strong analogies

The Defocusing Nonlinear Schrödinger Equation Panayotis G. Kevrekidis,Dimitri J. Frantzeskakis,Ricardo Carretero-González,2015-08-04 Bose Einstein condensation

is a phase transition in which a fraction of particles of a boson gas condenses into the same quantum state known as the Bose Einstein condensate BEC The aim of this book is to present a wide array of findings in the realm of BECs and on the nonlinear Schrödinger type models that arise therein The Defocusing Nonlinear Schrödinger Equation is a broad study of nonlinear excitations in self defocusing nonlinear media It summarizes state of the art knowledge on the defocusing nonlinear Schrödinger type models in a single volume and contains a wealth of resources including over 800 references to relevant articles and monographs and a meticulous index for ease of navigation

Microcavities Alexey V. Kavokin, Jeremy J. Baumberg, Guillaume Malpuech, Fabrice P. Laussy, 2017-04-28 Microcavities are semiconductor metal or dielectric structures providing optical confinement in one two or three dimensions At the end of the 20th century microcavities have attracted attention due to the discovery of a strong exciton light coupling regime allowing for the formation of superposition light matter quasiparticles exciton polaritons In the following century several remarkable effects have been discovered in microcavities including the Bose Einstein condensation of exciton polaritons polariton lasing superfluidity optical spin Hall and spin Meissner effects amongst other discoveries Currently polariton devices exploiting the bosonic stimulation effects at room temperature are being developed by laboratories across the world This book addresses the physics of microcavities from classical to quantum optics from a Boltzmann gas to a superfluid It provides the theoretical background needed for understanding the complex phenomena in coupled light matter systems and it presents a broad overview of experimental progress in the physics of microcavities

Semiconductor Photonics of Nanomaterials and Quantum Structures Arash Rahimi-Iman, 2021-04-23 This book introduces the wider field of functional nanomaterials sciences with a strong emphasis on semiconductor photonics Whether you are studying photonic quantum devices or just interested in semiconductor nanomaterials and their benefits for optoelectronic applications this book offers you a pedagogical overview of the relevant subjects along with topical reviews The book discusses different yet complementary studies in the context of ongoing international research efforts delivering examples from both fundamental and applied research to a broad readership In addition a hand full of useful optical techniques for the characterization of semiconductor quantum structures and materials are addressed Moreover nanostructuring methods for the production of low dimensional systems which exhibit advantageous properties predominantly due to quantum effects are summarized Science and engineering professionals in the interdisciplinary domains of nanotechnology photonics materials sciences and quantum physics can familiarize themselves with selected highlights with eyes towards photonic applications in the fields of two dimensional materials research light matter interactions and quantum technologies

Universal Themes of Bose-Einstein Condensation Nick P. Proukakis, David W. Snoke, Peter B. Littlewood, 2017-04-27 Following an explosion of research on Bose Einstein condensation BEC ignited by demonstration of the effect by 2001 Nobel prize winners Cornell Wieman and Ketterle this book surveys the field of BEC studies Written by experts in the field it focuses on Bose Einstein condensation as a universal phenomenon covering topics

such as cold atoms magnetic and optical condensates in solids liquid helium and field theory Summarising general theoretical concepts and the research to date including novel experimental realisations in previously inaccessible systems and their theoretical interpretation it is an excellent resource for researchers and students in theoretical and experimental physics who wish to learn of the general themes of BEC in different subfields

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