

QUANTUM GASES AND QUANTUM COHERENCE CONFERENCE BEC2016

UNIVERSITY OF SALERNO - ITALY
31 AUGUST TO 3 SEPTEMBER 2016

This workshop is dedicated to the theoretical and experimental challenges in the field of quantum gases and quantum coherence, with a strong connection to other areas of physics including strongly correlated systems, out-of-equilibrium systems, synthetic fields, disorder effects, dipolar gases, quantum information etc.

The program consists of five sessions, each introduced by a senior speaker:

STRONGLY CORRELATED SYSTEMS AND QUANTUM SIMULATORS

GIOVANNA MORIGI, SAARLAND UNIVERSITY, SAARBRÜCKEN, GERMANY

NON-EQUILIBRIUM AND DYNAMICS

CORINNA KOLLATH, BONN UNIVERSITY, GERMANY

LONG-RANGE INTERACTIONS

FRANCESCA FERLAINO, INNSBRUCK UNIVERSITY, AUSTRIA

GAUGE-FIELDS, TOPOLOGY AND SPIN-ORBIT

FABRICE GERBIER, LABORATOIRE CASTLER BROSSEL & CNRS, PARIS, FRANCE

QUANTUM INFORMATION METHODS AND COLD ATOMS

ANTOINE BROWAEYS, INSTITUT D'OPTIQUE, PARIS, FRANCE

SPECIAL EVENT: POLARITONS MEET COLD ATOMS

IACOPO CARUSOTTO, INO-CNR BEC CENTER & UNIVERSITÀ DI TRENTO, ITALY

OTHER INVITED SPEAKERS:

Pranjal Bordia, Ludwig-Maximilians-Universität, Munich, Germany - **Giuseppe Carleo**, ETH, Zurich, Switzerland - **Alessio Celi**, ICFO, Spain - **Laura Corman**, UQAM, Paris, France - **Chiara D'Errico**, LENS, Florence, Italy - **Marco Di Liberto**, INO-CNR, Trento, Italy - **Igor Ferrier-Barbut**, University of Stuttgart, Germany - **Laura Foini**, University of Geneva, Switzerland - **Dominik Husmann**, ETH, Zurich, Switzerland - **Rajibul Islam**, Harvard University, Boston, USA - **Renate Landig**, ETH Zurich, Switzerland - **Michael Lohse**, LMU, Munich, Germany - **Florian Meinert**, UIBK, Innsbruck, Austria - **Gunnar Möller**, Cavendish Laboratory, University of Cambridge, United Kingdom - **Luca Pezzè**, Qstar INO-CNR and LENS, Firenze, Italy - **Phillip Preiss**, Heidelberg University, Germany - **Hannah Price**, University of Trento, Italy - **Davide Rossini**, SNS, Pisa, Italy - **Juliette Simonet**, University of Hamburg, Germany - **Helmut Strobel**, Universität Heidelberg, Germany - **Davide Vodola**, IPCMS, Université de Strasbourg, France - **Erez Zohar**, Max-Planck-Institut für Quantenoptik, Garching, Germany - **Sebastian Will**, MIT, Boston, USA

Selected articles of the workshop participants will be published in a special issue on "Novel Quantum Phases and Mesoscopic Physics in Quantum Gases" of The European Physical Journal - Special Topics (EPJ-ST) <http://www.epjst-journal.org/>

Important dates

May 31st, 2016: Notification of participants and abstract acceptance

For information: bec2016@physics.unisa.it

ORGANISERS

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