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 area 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 BROSEL & CNRS, PARIS, FRANCE

**QUANTUM INFORMATION METHODS AND COLD ATOMS**
ANTOINE BROAWYE, 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-Universitat, Munich, Germany - Giuseppe Carlo, ETH, Zurich, Switzerland - Alessio Celi, IFCO, Spain - Laura Corman, UQUAM, 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 Meiners, 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

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