

# Laboratory for Theoretical Physics and Material Physics Hassiba Benbouali University of Chlef First International Winter School on Quantum Gases Algiers, January 21-31, 2012

The Laboratory for Theoretical Physics and Material Physics is organizing a First Winter School on Quantum Gases, in Algiers, Algeria, **from 21 to 31 January 2012.**

The field of quantum gases has attracted a great number of physicists in the recent years.

The aim of this School is to provide an overview of the latest theoretical and experimental developments in the domain of quantum gases.

The course is intended for Masters and PhD students from all countries which are members of the United Nations. Young post-docs entering the field are also invited to apply.

The program is organized along the following main courses and topics: trapped Bose-Einstein condensates, superfluidity, few-body physics, low-dimensional quantum gases, atoms and molecules in optical lattices, dipolar gases, quantum information and Solitons in BEC. To complement the main lectures and discuss the latest theoretical and experimental results in the domain, colloquia and seminars will be proposed.

## Organizers

**Mohamed BENAROUS** (LTPM, Université Hassiba Benbouali, Chlef, Algérie)

**Abdelaali BOUDJEMAA** (LTPM, Université Hassiba Benbouali, Chlef, Algeria)

## Scientific Committee

**Georgy SHLYAPNIKOV** (LPTMS, CNRS, Université Paris-Sud, Orsay, France)

**William PHILLIPS** (NIST-JQI Gaithersburg, USA)

**Claude COHEN-TANNOUJJI** (ENS, Paris)

## Lectures Speakers

**Jook WALRAVEN** (Amsterdam, Netherlands)

**Lev PITAEVSKII** (Trento, Italy)

**Sandro STRINGARI** (Trento, Italy)

**Gora SHLYAPNIKOV** (LPTMS, CNRS, Université Paris-Sud, France)

**Usama Al-KHAWAJA** (Al-Ain, United Arab Emirates)

**Ludovic PRICOUPENKO** (Iptmc.jussieu, Paris-France)

**Misha BARANOV** (ITP, University of Innsbruck- Austria)

**Nikolay PROKOFIEV** (University of Massachusetts, USA)

## HOW TO APPLY

The application form must be sent by e-mail at

**a.boudjemaa@univ-chlef.dz** or **abdou\_boudj@yahoo.fr**

The closing date for receipt of requests of participation is **15 November 2011.**

<http://www.univ-chlef.dz>

[http://lptms.u-psud.fr/workshop/winter\\_school/](http://lptms.u-psud.fr/workshop/winter_school/)

