



UNIVERSITY  
OF TRENTO - Italy  
DEPARTMENT OF PHYSICS  
Doctoral School in Physics

# Physics PhD Workshop 2013

February 27th, 2013

hall 106 (padiglione nord FBK)

via Sommarive, 18

## 8.45 Opening

Prof. Lorenzo Pavesi, head of the Department of Physics

## 9.00 - 10.30 First Morning Session

Chair: Dr. Abhishek Mukherjee

- Nicola Bartolo: Ultracold Gases: experiments (in Trento) and effects of the dipolar interaction
- Italo Giovanni Martone: Properties of Spin-Orbit Coupled Bose Gases
- Davide Gandolfi: Enhanced label-free biosensing with optical resonators
- Luca Matteo Martini: OH density by time-resolved broad band absorption spectroscopy

## Coffee Break

## 11.00 - 12.30 Second Morning Session

Chair: Dr. Riccardo Rota

- Elia Schneider: Path integral formalism applied to quantum biology
- Alessandro Roggero: Integral transform techniques in Monte Carlo simulations
- Matteo Franchi: Noise in chaotic time series
- Giuliana Russano: LISA Pathfinder ground testing

## Lunch Break

## 14.00 - 15.00 Poster Session

## 15.00 Opening of the Academic Year

Prof. Stefano Giorgini, director of the PhD School in Physics

## 15.15 - 16.15 Lectio Magistralis

Chair: Dr. Giacomo Lamporesi

Dr. Andrea Bertoldi: Cold atoms, weak measurements and feedback for timekeeping

## 16.15 Scientific break (coffee & physics)

## Social Dinner\*

\*booking on the PhD Students website