



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 Dipolar Gases
- **Matteo Franchi**: Noise in chaotic time series
- **Davide Gandolfi**: Enhanced label-free biosensing with optical resonators
- **Alessandro Roggero**: Integral transform techniques in Monte Carlo simulations

Coffee Break

11.00 - 12.30 Second Morning Session

Chair: Dr. **Riccardo Rota**

- **Luca Matteo Martini**: OH density by time-resolved broad band absorption spectroscopy
- **Elia Schneider**: Path integral formalism applied to quantum biology
- **Giuliana Russano**: LISA Pathfinder ground testing
- **Giovanni Italo Martone**: Spin-Orbit Coupled Bose Gases

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