

lecture hall 109, via Sommarive, 18

# Opening of the Academic Year of the PhD School in Physics lecture hall 109, 15.30

Lectio Magistralis

Neutrino oscillation physics

Stefano Dusini

INFN - Padova (PhD in Trento)

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III PhD WORKSHOP A 2011

February 9th, 2011 8.45 - 18.45

lecture hall 109, via Sommarive, 18

# 8.45 Opening

Prof. Giuseppe Dalba, head of the department of Physics

## 9.00 - 10.30 First Morning Session

chair: dr. Lidia Pieri

- Gabriele Calzà, "Education, teaching and communication of Physics"
- **Govanni Acquaviva**, "The interpretation of horizon temperature through tunnelling methods and Unruh-deWitt detectors"
- Anna Battisti, "Computer simulation studies of biological molecules"
- Marco Larcher, "Understanding Disorder Using Ultracold Atoms"
- Federica Bianco, "Nonlinear optics in strained silicon waveguides"

#### Coffee break

# 11.00 - 12.30 Second Morning Session

chair: dr. Paolo Bettotti

- Alessandra Santini, "Nano-materials and nano-particles for hydrogen production"
- **Rajesh Pandiyan**, "Effect of Neodymium (Nd3+) doping on the structure, optical and photoluminescence properties of nanostructured TiO2 thin films"
- **Massimo Eccher**, "Development of a photovoltaic dense array based on multijunction solar cells"
- Giovanni Paternoster, "Silicon Solar Cells for Concentration Photovoltaic Applications"
- Fabrizio Sgrignuoli, "Nanocrystalline Silicon Down-Shifter for Silicon Solar Cell"

#### **12.15** Conclusive Remarks

Prof. Stefano Giorgini, deputy coordinator of the PhD School in Physics

#### Lunch break

# 14.30 - 15.30 Poster Session

## 15.30 Opening of the Academic Year

Prolusion by prof. Lorenzo Pavesi, director of the PhD school in Physics

# 15.45 - 16.45 Lectio Magistralis

chair: prof. Ignazio Lazzizzera

Neutrino oscillation physics

**Stefano Dusini** 

16.45 - 18.00 Scientific break (coffee & physics)

http://www.unitn.it/drphys

http://www.science.unitn.it/~dottorato/