



UNIVERSITÀ DEGLI STUDI
DI TRENTO

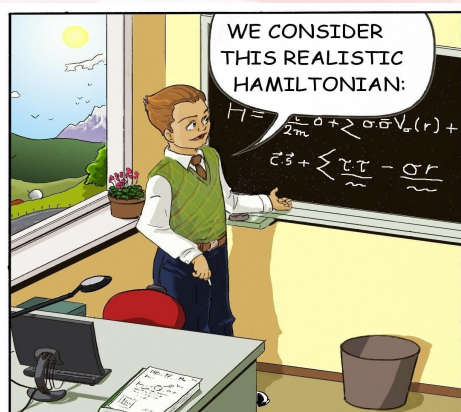
Doctoral School in Physics
Department of Physics
University of Trento

Physics PhD Workshop 2010

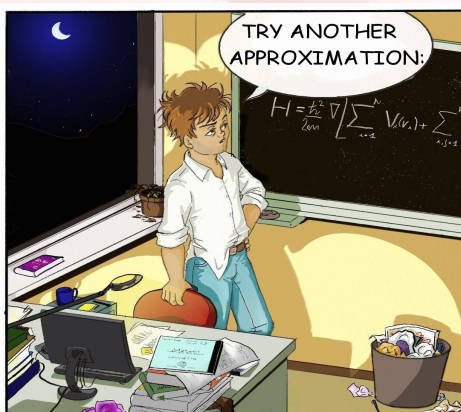
February 3rd, 2010

8.45 - 18.45

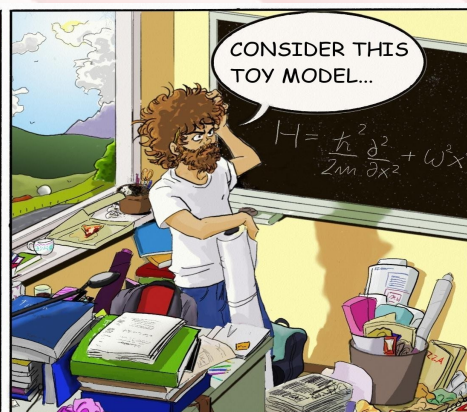
lecture hall 109
via Sommarive, 18



THE FIRST PHD YEAR



THE SECOND PHD YEAR



THE LAST PHD YEAR

Opening of the Academic Year of the PhD School in Physics

15.00

lecture hall 109

Lectio Magistralis

*Engineering light-matter interactions
with photonic-plasmonic nanostructures:
science and technology
of sub-wavelength giant fields*

Luca Dal Negro

Boston University (PhD in Trento)

Program

8.45: Opening prof. Giuseppe Dalba, Head of the Department of Physics

9.00: First Morning Session

- Superfluidity, Interferometry and Entanglement with Bose-Einstein Condensates, **Piazza Francesco**
- Microscopic mechanisms for the growth and destruction of complex aromatic hydrocarbons: a mass spectrometric study, **Aysina Julia**
- Towards a Coarse-Grained Description of HYADD Hydrogels, **Autieri Emmanuel**
- Vibrational properties of strong glasses, **Zanatta Marco**
- Hydrogen generation by Photo-electrochemical water splitting using TiO_2 photocatalyst and development of efficient solar receiver for solar concentrator, **Dholam Rupali**
- Efficient catalysts for Hydrogen production by hydrolysis of chemical hydrides, **Fernandes Rohan**

Coffee break

11.00: Second Morning Session

- Constraints of fossil fuels depletion on the projections of global warming, **Chiari Luca**
- Seriously playing with Science: a new education and communication tool, **Guglielmino Michela**
- Data analysis for LISA and LISA-Pathfinder, **Congedo Giuseppe**
- Femto-Newton level testing of free-fall on-ground, **Nicolodi Daniele**
- Loop Quantum Gravity, a non-perturbative approach to the quantum gravity, **Marin Diego**

Lunch break

14.00: Poster Session

15.00: Opening of the Academic Year

- Introduction by prof. **Lorenzo Pavesi**, Head of the Phd School in Physics
- Lectio Magistralis "*Engineering light-matter interactions with photonic-plasmonic nanostructures: science and technology of sub-wavelength giant fields*", **Luca Dal Negro**

Coffee break

16.45: Afternoon Session

- Oligothiophenes thin films grown by SuMBD: the influence of kinetic energy on sub-monolayer formation, **Tonezzer Matteo**
- UV surface functionalisation of nanocrystalline diamond films for bio-sensing applications, **Torrengo Simona**
- Preparation and characterization of TiO_2 and TiO_2 : Nb films for photovoltaics applications, **Luciu Ioana**
- Electrical injection in slot waveguides, **Prtljaga Nikola**
- High efficiency light-emitting devices based on energy band gap engineering of Si nanocrystals, **Marconi Alessandro**

18.30: Conclusive Remarks

Social dinner
(8pm at "Rosa d'Oro")