

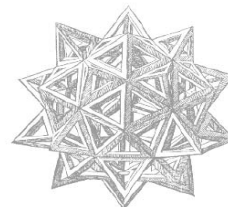
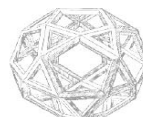
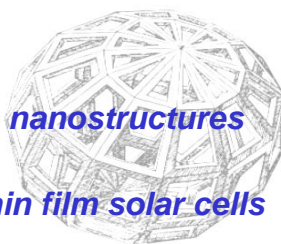


UNIVERSITA' DEGLI STUDI DI PAVIA

*DOTTORATO DI RICERCA IN FISICA*

**SEMINARI DEI DOTTORANDI**  
**Dipartimento di Fisica, aula di Dottorato**  
**Venerdì 10 Ottobre 2014**

- 9.00-9.30 **Stefano Boselli**  
*Higgs boson physics at the LHC: state of the art and future prospects*
- 9.30-10.00 **Matteo Vorabbi**  
*Parity-violating electron scattering*
- 10.00-10.30 **Ilaria Vai**  
*Status of the Upgrade of the Muon System of the CMS experiment*
- 10.30-11.00 **Break**
- 11.00-11.30 **Valentina Elettra Bellinzona**  
*Hadrontherapy: lateral and collateral open problems*
- 11.30-12.00 **Giuseppe Magro**  
*Dose calculation accuracy of a commercial Treatment Planning System for small superficial targets and scanned proton pencil beams*
- 12.00-12.30 **Angelica Simbula**  
*Integrated quantum optics - State of the art*
- 12.30-14.15 **Lunch break**
- 14.15-14.45 **Massimiliano Malgieri**  
*Setting the bar higher in teaching physics to secondary students and non specialists*
- 14.45-15.15 **Alice Magnani**  
*Searches for a charged Higgs boson at the LHC*
- 15.15-15.30 **Break**
- 15.30-16.00 **Filippo Alpegiani**  
*Optical properties of plasmons in nanostructures*
- 16.00-16.30 **Salvatore Del Sorbo**  
*Scattering and light trapping in thin film solar cells*





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**SEMINARI DEI DOTTORANDI**  
**Dipartimento di Fisica, aula di Dottorato**  
**Lunedì 13 Ottobre 2014**

- 9.00-9.30 Samuel Rutili  
*Thermal states and gravity*
- 9.30-10.00 Marta Torti  
*Sterile neutrinos: the dark side of leptons*
- 10.00-10.30 Andrea Falcone  
*Light detection system for liquid noble gasses detector*
- 10.30-11.00 Break
- 11.00-11.30 Giulia Urbinati  
*Photonic crystal cavities for integrated optical circuits*
- 11.30-12.00 Mario Carante  
*Models of Radiation-Induced Cell Death: Biophysical Mechanisms and Hadrontherapy Applications*
- 12.00-12.30 Ian Postuma  
*Accelerator based Neutron Capture Therapy*
- 12.30-14.15 Lunch break
- 14.15-14.45 Elisa Rojatti  
*Therapeutic Beam Validation with the Qualification Profile Monitor @CNAO: theoretical studies and experimental results*
- 14.45-15.15 Paolo Dondero  
*Supersymmetric top quark partner search within the ATLAS experiment at LHC*
- 15.15-15.30 Break
- 15.30-16.00 Francesco Floris  
*A Nanostructured Plasmonic Surface for Light Emission Applications*
- 16.00-16.30 Bárbara Smilgys  
*Dosimetric studies for BNCT: first results for in vitro alpha irradiation*
- 16.30-17.00 Gabriele Nosari  
*What's again on Casimir?*

