

**SEMINARI FINALI DOTTORANDI**  
**XXX CICLO E XXIX CICLO CON PROROGA**

**19 Gennaio 2018**

**Sala Riunioni I Piano V. Irnerio 46**

**Mattina: dalle 9 alle 12:30**

- 9-9:30, Gabriele D'Amen, "*Exploiting the ATLAS detector in a search for stop squark in a compressed mass spectrum using the Higgs boson*", Supervisor: Dott. Alessandro Gabrielli, co-Supervisor: Dott. Carla Sbarra.
- 9:30-10, Giulia Uchielli, "*Study of multi-lepton final states with the ATLAS experiment: from Standard Model to Beyond Standard Model Higgs*", Supervisor: Prof. Maximiliano Sioli, co-Supervisor: Dott. Antonio Sidoti.
- 10-10:30, Federica Fabbri, "*Measurement of the differential cross section of  $t\bar{t}$  production, using data collected by the ATLAS detector at  $\sqrt{s} = 13$  TeV*", Supervisor: Prof. Nicola Semprini Cesari, co-Supervisor: Dott. Matteo Negrini.
- 10:30-11, Camilla Vittori, "*Inclusive Z boson production and in association with b-jets in proton-proton collisions at 13 TeV with the ATLAS experiment*", Supervisor: Dott. Laura Fabbri, co-Supervisor: Dott. Benedetto Giacobbe.
- 11-11:30 Francesca Carnesecchi, "*Experimental study of the time resolution for particle detectors based on MRPC, SiPM and UFSD technologies*", Supervisor: Prof. Gilda Scioli, co-Supervisor: Dott. Rosario Nania.
- 11:30-12, Fabio Ferrari, "*Measurement of CP violation in two-body b-hadron decays with the LHCb experiment*", Supervisor: Dott. Angelo Carbone
- 12-12:30, Federico Fornari, "*Software Development and Detector Characterization of the EUCLID Near-Infrared Spectro-Photometer*", Supervisor: Dott. Laura Patrizii, co-Supervisor: Dott. Jean-Claude Clemens, Dott. Gabriele Sirri

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**Pomeriggio: dalle 14 alle 16**

- 14:00-14:30, Alfredo Bonini, “*Supersymmetric 4d gauge theories and Integrability*”, Supervisor: Prof. Francesco Ravanini, co-Supervisor: Dott. Davide Fioravanti.
- 14:30 -15:00, Giacomo Rossi, “*Highlighting Charge Transfer Phenomena in Photocatalytic Compounds Using Optical and X-ray Techniques*”, Supervisor: Prof. Federico Boscherini
- 15:00-15:30, Silvia Vitali, “*Modeling of birth-death and diffusion processes in biological complex environments*”, Supervisor: Prof. Gastone Castellani, co-Supervisor: Dott. Gianni Pagnini.
- 15:30 -16:00, Fabrizio Amorini, “*Potassium channels and bioelectrical cellular properties during interactions with conductive polymers, electrotaxis and accelerated aging*”, Supervisor: Prof. Gastone Castellani, co-Supervisor: Dott. Isabella Zironi.