



CORSO DI DOTTORATO IN FISICA, ASTROFISICA E FISICA APPLICATA

Presso la Sala Consiglio del Dipartimento di Fisica
gli allievi del I° anno del Corso di Dottorato
terranno nelle giornate del 17 e 18 Novembre 2014
il seminario di fine anno nei seguenti orari:

17 NOVEMBRE

- 9:00 **Welcome (M.Bersanelli, T.Bellini)**
Chairperson: Stefano Forte
- 9:20 Giovanni Dipiero: The role of gravitational instability in the dynamics of dust grains in protostellar discs.
- 9:40 Antonino Troja: CMB Non-Gaussianity as a probe of the physics of the primordial Universe.
- 10:00 Giovanni Bocchi: Study of Ca isotopes via neutron capture reactions.
- 10:20 Miriam Lafiandra: Interaction between hadrons and chemotherapeutic agents in human cancer cells cultured in vitro.
- 10:40 **Coffee break**
Chairperson: Giovanni Onida
- 11:10 Simone Michele Mazza: Search for extra dimensions in the di-photon channel at the ATLAS experiment at LHC.
- 11:30 Zeudi Mazzotta: Strategies for the detection of $n=3$ and Rydberg Positronium levels in the AEGIS experiment.
- 11:50 Giacomo Guarnieri: Study of correlations and non-Markovianity in dephasing open quantum systems.
- 12:10 Camilla Santoli: $N=2$ supergravity in 4 dimensions.

18 NOVEMBRE

- Chairperson: Marco Bersanelli*
- 9:00 Matteo Cecchetti: Development of an imaging system for dose monitoring in hadrontherapy.
- 9:20 Simone Manenti: Metabolic radiotherapy: study and optimization of the production of relevant radionuclides.
- 9:40 Patrizia Rosa: X-ray photoelectron study on $Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-\delta}$ and $La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-\delta}$ before and after thermal treatment and permeation test.
- 10:00 Martina Basini: Study of spin dynamics in ferrite-based MNPs.
- 10:20 Andrea Bellacicca: Bioinspired soft actuators using metal-polymer nanocomposites.
- 10:40 **Coffee break**
Chairperson: Emanuela Meroni
- 11:10 Roberto Meloni: Computational studies of protein elements in different denaturing conditions.
- 11:30 Luca Puricelli: Nanomechanical and topographical imaging of living cells and tissues for the investigation of cellular interactions.
- 11:50 Jacopo Trapani: Quantum to classical transition in noisy classical environments.
- 12:10 Alessio Giampietri: Surface and interface physics of novel oxide heterostructures.



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