



SCUOLA DI DOTTORATO IN FISICA, ASTROFISICA E FISICA APPLICATA

Presso la Sala Consiglio del Dipartimento di Fisica
gli allievi del I° anno della Scuola di Dottorato
terranno nelle giornate del 14 e 15 Ottobre 2013
il seminario di fine anno nei seguenti orari:

14 OTTOBRE

- 9:00** Welcome (Marco Bersanelli)
Chairperson: Giovanni Onida
- 9:10** Fatemeh Adelnia Najafabadi: Magnetic properties and spin dynamics in anti ferromagnetic molecular rings by ^1H NMR.
- 9:30** Nicola Nembrini: Time resolved optical spectroscopy on Na_2IrO_3 .
- 9:50** Cristian Franceschet: Development of high performance optics for the STRatospheric Italian Polarimeter.
- 10:10** Stefano Capra: Latest results in ASIC developments for TRACE and other detectors for nuclear physics research.
- 10:30** Marina Laura Rossi: Viral DNA as a model for coil to globule transition.
- 10:50** Coffee break
Chairperson: Tommaso Bellini
- 11:20** Roberta Lanfranco: Optically invisible plastics: a new tool to detect water pollutants.
- 11:40** Riccardo Avigo: Search for the Pygmy dipole resonance in ^{64}Fe .
- 12:00** Simone Ceruti: Isospin mixing in ^{80}Zr at finite temperature.
- 12:20** Tommaso Brotto: Reproduction leads to higher population fitness: as simple as that.
- 12:40** Camilla Curatolo: Physics and applications of Thomson/Compton back scattering.

15 OTTOBRE

- Chairperson: Emanuela Meroni*
- 9:00** Tommaso Porcelli: Sputter-ion pumps: state of the art and development of new solutions for the employment in combination with non-evaporable getters.
- 9:20** Monica Ceresoli: Fabrication of nanostructures by means of Block Copolymer based lithography.
- 9:40** Jacopo Frascaroli: Nanoscale resistive switching devices based on metal oxides.
- 10:00** Andrea Manca: Dynamics of colloidal aggregation in microgravity by critical Casimir forces.
- 10:20** Antonio Mandarinò: About the use of fidelity to assess quantum resources.
- 10:40** Coffee break
Chairperson: Marco Bersanelli
- 11:10** Mario Motta: Dynamical properties of many fermion systems.
- 11:30** Daniele Andrea Redoglio: Quantitative elemental analysis of coal using LIBS and development of a prototype for power plant applications.
- 11:50** Alessandro Sanzeni: Controlling tremor in Parkinson's disease.
- 12:10** Silvia Tognolini: Investigating graphene/metal interfaces by time-resolved non linear photoemission.

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