



CORSO DI DOTTORATO IN FISICA, ASTROFISICA E FISICA APPLICATA

Presso la Sala Consiglio del Dipartimento di Fisica
gli allievi del 1° anno della Scuola di Dottorato
terranno nelle giornate del 20 e 21 ottobre 2016
il seminario di fine anno nei seguenti orari:

20 OTTOBRE

- 9:00 Welcome (Francesco Ragusa)**
Chairperson: Matteo Paris
- 9:10** Enrico Ragusa: Dynamics of circumbinary discs: from supermassive black holes to protostars.
- 9:30** Sonia Carrà: Search for top squark pair production in a final state with two leptons at LHC Run 2 with the ATLAS detector.
- 9:50** Andrey Formozov: The investigation of liquid scintillator properties, energy and spatial resolution for JUNO reactor neutrino experiment.
- 10:10** Andrea Merli: Measurement of matter-antimatter differences in beauty baryon decays.
- 10:30** Marco Danilo Claudio Torri: Lorentz Invariance Violation studies in ultra high-energy cosmic rays at the Auger experiment.
- 10:50 Coffee break**
Chairperson: Stefano Forte
- 11:20** Simone Sala: Antimatter wave interferometry in OUPLAS.
- 11:40** Francesco Albarelli: Nonclassicality in continuous variables quantum systems.
- 12:00** Luigi Seveso: Ultimate precision: new developments in quantum estimation theory.
- 12:20** Giacomo Tanzi Marlotti: How to analyse condensed matter with Positronium.

21 OTTOBRE

- Chairperson: Tommaso Bellini*
- 9:00** Alessandro Banaudi: Quantum properties of supersymmetric gauge theories.
- 9:20** Enrico Maria Malatesta: The Random Matching Problem.
- 9:40** Giovanni Savini: Investigation of the cerebellar microstructure with diffusion MRI.
- 10:00** Serena Marta Valle: The FragmentatiOn Of Target (FOOT) project: study of target fragmentation in protontherapy.
- 10:20 Coffee break**
Chairperson: Aniello Mennella
- 10:50** Marcello Rossetti Conti: Ultra-short high brightness electron beams and their longitudinal shaping.
- 11:10** Filippo Cola: Overshoot of cancer stem cell population. A theoretical model via rate equations and stochastic simulations.
- 11:30** Alessandro Colombo: Coherent diffraction imaging via memetic algorithms.
- 11:50** Chloé Minnai: Stretching effect on electrical and optical properties of metal-polymer nanocomposites.
- 12:10 Conclusions (Francesco Ragusa)**

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