



CORSO DI DOTTORATO IN FISICA, ASTROFISICA E FISICA APPLICATA

Presso la Sala Bertoni del Dipartimento di Informatica
gli allievi del I° anno della Scuola di Dottorato
terranno nelle giornate del 24 e 25 settembre 2019
il seminario di fine anno nei seguenti orari:

24 SETTEMBRE

- 9:00 **Welcome (M. Paris)**
Chairperson: Cristina Lenardi
- 09:10 Mrunali Gaijan: Cosmology with gravitational waves from astrophysical sources: the impact of gravitational lensing.
- 09:30 Sara Ziliani: Study of neutron-rich light nuclei: a test to nuclear structure and clusterization phenomena.
- 09:50 Carlotta Porzio: Nuclear shape evolution in Ge isotopes.
- 10:10 Stefano Mandelli: Atmosphere characterization for ground-based CMB measurements.
- 10:30 Simone Paradiso: Probing the reionisation history of the Universe with CMB polarisation data.
- 10:50 **Coffee break**
Chairperson: Marco Buscaglia
- 11:20 Martina Toscani: Gravitational Waves from transient events: analytical and numerical approach.
- 11:40 Simone Iovenitti: Diagnostic of ASTRI-Horn optics: runtime pointing and alignment with the Cherenkov camera.
- 12:00 Simone Di Leo: Hybridization and selectivity of random-sequence DNA Oligomers.
- 12:20 Marco Piazzoni: 3D Bio-Hybrid Actuators: a New Frontier in Soft Robotics.
- 12:40 Edoardo Suerra: Development of a MegaWatt-class pulsed laser system for Compton source in the framework of MariX project.

25 SETTEMBRE

- Chairperson: Stefano Forte*
- 09:00 Eliana Masha: Cross section measurements of astrophysical interest: Study of $^{22}\text{Ne}(\alpha, \gamma)^{26}\text{Mg}$ reaction at LUNA.
- 09:20 Davide Pietro Mungo: Machine learning meets the Higgs boson at the ATLAS detector.
- 09:40 Anita Previdi: Nano- and microscale fabrication and characterization of neuronal cell networks.
- 10:00 Claudia Ravasio: Optical characterization of mineral dust with digital in-line holography.
- 10:20 Linda Ravazzano: Unjamming of active rotators.
- 10:40 **Coffee break**
Chairperson: Aniello Mennella
- 11:10 Sara Moon Villa: Soft polymeric nanocomposites for electromechanical conversion: a tool for sensing and energy harvesting.
- 11:30 Vittorio Erba: Optimal transport theory: a disordered system point of view.
- 11:50 Tanjona Radonirina Rabemananjara: Generative Adversarial Neural Networks (GANs) for Parton Distribution Functions (PDFs).
- 12:10 Jesus Urtasun Elizari: Machine Learning for the precision determination of Parton Distribution Functions.
- 12:30 **Conclusions (M. Paris)**

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