1:30 p.m.

Lunch (on your own)







Physics Ph.D. Students Workshop

Friday 25 January 2019, from 9:00 a.m. – Dept. of Physics, Aula Caianello (-2Ma05)

Physics Ph.D students present their current and future research work

32 nd cycle		33 rd cycle	
1 st Session	Chair: A. Miano	1 st Session	Chair: E. Allahyari
9:20 a.m.	Professor Salvatore CAPOZZIELLO Introduction Elaheh ALLAHYARI "The generation and	2:30 p.m.	Halima Giovanna AHMAD "Dissipation and unconventional superconductivity in spin-filter Josephson junctions."
9:30 a.m.	characterization of surface structures produced by ultrashort laser pulses."	2:40 p.m.	Francesco ALESSIO "The fuzzy celestial sphere."
9:45 a.m.	Loris Maria CANGEMI "Dissipative dynamics of a qubit beyond Born-Markov approximation."	2:50 p.m.	Francesco BAJARDI "Topological field theories and their applications."
10:00 a.m.	Bruno CIMMINO "Dark Matter search: the neutron Veto in the Xenon detector upgrade."	3:00 p.m.	Marcello CAMPAJOLA "Search for Invisible Decays of a Z' produced in e+e- collisions at Belle
10:15 a.m.	Michele CORVINO "Measurement of the lepton flavour universality ratio RK with NA62 experiment at CERN."	3:10 p.m.	II." Angela CAPACCIO "Enhanced Raman-based spectroscopy for analysis of bio-systems."
10:30 a.m.	Andrea ESPOSITO "Chromatin architecture code inferred by machine learning and polymer physics."	3:20 p.m.	Achille DAMASCO "Optimization and improvement of carbon-based and graphene-based supercapacitors."
10:45 a.m.	Antonio GIANNINI "Seaerches of new physics in diboson semi-leptonic final states with VBS/VBF	3:30 p.m.	Pegah DARVEHI "Increasing the efficiency of coupling light into an optical fiber."
11:00 a.m.	signatures in pp collisions at s=13 TeV with the ATLAS detector." Marco LAVORGNA "Searches for heavy ZZ and ZW resonances in semileptonic final states with	3:40 p.m.	Agostino DE IORIO "Search for new physics contributions and measurements of CKM matrix elements in single-top production with the CMS experiment at LHC."
11:15 a.m.	the ATLAS detector at LHC." Mattia MANFREDONIA "Localization and reference frames in k-Minkowski spacetime."	3:50 p.m.	Giulia DE SOMMA "A theoretical analysis of systematics affecting the Hubble constant tension: from the stellar to the cosmological route."
11:30 a.m.	Coffee BREAK	4:00 p.m.	Coffee BREAK
2 nd Session	Chair: G. De Somma	2 nd Session	
12.00 p.m.	Alessandro PULCINI "Fission and quasi-fission dynamics near the Coulomb barrier: gamma rays as probe for separation."	4:30 p.m.	Chair: L. M. Cangemi Luca FIORILLO "Ensamble and single-cell DNA 3D structure: a polymer-physics-based exploration."
12:15 p.m.	Maria Angela RAJ "Evolution and Structure of Late Type Galaxies inside the virial radius of the Fornax Cluster."	4:40 p.m.	Antonio IULIANO "Emulsion detector for the SHiP experiment: current status and future plans."
12:30 p.m.	Oleksandra RAZIM "Galaxy classification with machine learning methods."	4:50 p.m.	Alessandro MIANO "Novel routes for the control of superconducting hybrid devices."
12:45 p.m.	Daniela SALVONI "SNSPD detectors and Lidar application."	5:00 p.m.	Gianluca PASSARELLI "Quantum annealing,AQC and open quantum systems."
1:00 p.m.	Chiara SCHIATTARELLA "Optical characterization of functional nanomaterials for biomedical	5:10 p.m.	Olena TORBANIUK "Identification of candidate AGNs in multiband digital sky surveys."
1:15 p.m.	applications." Manjot SINGH "Biological interactions of biocompatible and water dispersed MoS2 nano	5:20 p.m.	Pasquale TRINCHESE "A portable EEG-BCI framework enhanced by machine learning techniques."
	sheets with bacteria and human cells."	5:30 n m	Professor Salvatore CAPO77IFILO Greetings

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