

Re[incontri] di Fisica Partenopea



Wednesday 21 December 2022 - Friday 23 December 2022

Dipartimento di Fisica "Ettore Pancini"

Programma

(talk length throughout the whole event: 15' SHARP including questions)

****Programma del 21 Dicembre mattina****

9:45 Presentazione + Welcome

The organizers: D. De Cicco, N. Frusciante e F. Iocco (UniNA)

M. Nicodemi (UniNA e INFN)

G. Miele (UniNA, Dir. Dip. Fisica "Ettore Pancini"),

****Start alle 10:00****

- S. Capozziello: Non-local Gravity Cosmology
- V. Cardone: Euclid: a higher order point of view on the Universe
- M. Miranda: Scalar field effective fluids in second-order theories of gravity
- V. De Falco: Exploring metric departures from Schwarzschild black hole geometry
- M. Benetti: $f(T)$ Cosmology

****Break 11:30-12:00****

- M. Annunziatella: A look into the evolution of massive galaxies
- G. D'Ago: Handling massive spectroscopic data: population gradients in cluster ETGs
- A. Ferragamo: Machine Learning approach to Sunyaev-Zel'dovich cluster radial mass profiles
- V. Allevalo: The interplay between AGN and the large-scale structure of the Universe
- D. De Cicco: A Neapolitan telescope in Chile: 10 years of AGN variability
- F. Ragosta: Parameter estimation of kilonovae in the Vera Rubin Observatory era
- A. Longobardi: Studying structure evolution in a multi-parameter space of observables

****Students' lunch!!! (You have to write to N. Miranda to register, and deposit 5 Euros; nicola.miranda@unina.it)****

****Programma del 22 Dicembre****

****Start alle 10:00****

- G. Gubitosi: Quantum Gravity Phenomenology
- N. Frusciante: Cosmological tests of Gravity
- F. Kuipers: Physics on the Quantum Foam
- M. Cesaro: Kaluza-Klein Spectroscopy in Supergravity
- M. De Cesare: Evolving black hole with scalar field accretion

****Break 11:30-12:00****

- S. Esposito: Feynman's adventures ed altre imprese: storia, didattica e divulgazione a Napoli tra azioni e contaminazioni
- O. Zagordi: $O(1)$ cose che ho imparato da quando mi sono laureato in fisica
- A. D'Isanto: From astronomy to supply chain (through OLED development)
- P. D'Isanto: Zeta di Riemann e Caos
- M. Messina: Relic neutrinos, how to take a new shot of the Universe
- Francesco Musella: From Physics to Bioinformatics: DNA Modeling

****Lunch 13:30-14:30****

****Start 14:30****

- E. Vitagliano: Supernova 1987A strongly constrains Bosons Decaying to Neutrinos
- D. Fiorillo: Discovering point sources of ultra-high-energy neutrinos
- F. Sapia: Fundamental Physics with the two Galileo FOC satellites DORESA and MILENA
- V. Gammaldi: Dark Matter indirect detection and machine learning
- G. Limatola: On Linear Power Corrections in Collider Processes

- V. Vicuña-Hernandez: Complex Beams

****Break 15:45-16:00****

- M. Maffei: Energetics of optical quantum technologies

- R. Arpaia: Shedding light on high temperature superconductors with confined samples and synchrotron radiation

- P. Malara: The water network of trees as a sensing organ

- A. Rubano: Terahertz Hyper-Raman Time-Domain Spectroscopy

- L. Amato: Highly coherent cluster states in dilute rare-earth insulators

****Programma del 23 Dicembre mattina****

****Start alle 10:00****

- E. Loffredo: Evolutionary trade-offs in multi stressors environment

- M. Conte: Polymer physics of chromosome spatial organization

- M. F. Abbate: Computational detection of antigen-specific b-cells receptor using statistical mechanics

- M. Durante: Biomedical Applications of Radioactive ion Beams

- P. Maiuri: Nuclear volume (of a cell)

- F. P. Casale: Human genetics and machine learning to unravel complex disease biology

****Break 11:30-12:00****

- A. Scialdone: One, No One, and One Hundred Thousand: how cells acquire and change identities

- S. De Franciscis: Mathematical modeling of noise, networks and dynamical systems, and its applications to system biology and astrophysics.

- A. Marinelli: Neutrino astronomy in the era of the Global Neutrino Network

- PD Serpico: Overview of Astroparticle activities at LAPTh

- A. Cuoco: Dark Matter indirect detection with gamma rays, cosmic rays and gravitational waves

- F. Iocco: Dark Matter distribution in astrophysical objects