

# 4<sup>th</sup> Young Researcher Meeting, Trieste

## Conference Program

### 3RD JUNE

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11.00 - Coffee

**Welcome (Direttore Prof. Guido Martinelli)**

11:30 - 12:00 Alice Miceli: "Localization of inclusions in prompt gamma activation analysis: a feasibility study"

12:00 - 12:30 Elisa Rojatti: "Watch Dog detector for beam diagnostic in hadrontherapy application"

12.30 - 13.00 Emanuela Pusceddu: "Morphological investigation and physical characterization of ancient fragments of pyrogenic carbon"

**13.00 - 13.30 Introduction to posters**

Awni Al-Hourani: "Spin Polarization Transfer in Colloidal Magnetic-Plasmonic Au/Iron Oxide Hetero-Nanocrystals"

Marco Di Stefano: "Colocalization of coregulated genes: a steered molecular dynamics study of human chromosome 19"

**13.30 - 14.30 Lunch (Provided on site)**

14.30 - 15.00 Alessio Rocci: "On first attempts to reconcile Quantum Theory with Gravity"

15.00 - 15.30 Matteo Rossi: "Quantum Hypergraph States"

15.30 - 16.00 Angelo Russomanno: "Synchronization of observables with a periodic driving in Quantum System: phase coherence behind an apparent paradox"

16.00 - 16.30 Matteo Serra: "Einstein-scalar gravity and holography"

**16.30 - 17.00 Coffee Break (Provided on site)**

17.00 - 17.30 Razieh Emami Meibody: "Anisotropic inflation from charged scalar field"

17.30 - 18.00 Laura Taddei: "Spherical collapse in Symmetron Models"

18.00 - 18.30 Eloisa Menegoni: "Constraints on variations of the fine structure constant from Cosmological data"

**Social Dinner**

### 4TH JUNE - PROGRAM

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09:30 - 10:00 Luca Franci: "Bar-Mode Instability In Relativistic Rotating Stars"

10:00 - 10:30 Alberto Zonca: "Modeling galactic extinction with dust and 'real' PAHs"

10:30 - 11:00 Stefano Pilo: "The red UV slopes of z 3 Lyman Break Galaxies and implications on dust content and Cosmic Star Formation Rate"

**11.00 - 11.30 Coffee Break (Provided on site)**

11:30 - 12:00 Luciana Renata de Oliveira : "Energy consumption and entropy production in a stochastic formulation of BCM learning"

12:00 - 12:30 Wenjun Hu: "Direct evidence for a gapless  $Z_2$  spin liquid by frustrating Néel antiferromagnetism"

12:30 - 13:00 Yan-hua Hou: "First and second sound in a highly elongated Fermi gas with resonant interactions"

13.00 - 13.30 Mirco Panighel: "Tunneling and photoemission spectroscopy of metal- organic molecules on metallic substrates"

**13.30 - 14.30 Lunch (Provided on site)**

14.30 - 15.00 Mauro Aresti: "Ultrafast Optical Spectroscopy Techniques applied to colloidal semiconductor nanocrystals"

15:00 - 15:30 Francesco Ricci: "Polarization-driven magneto- and electro-resistance in multiferroic junctions"

15.30 - 16.00 Pietro Bonfa': "Superconducting-to-magnetic transition driven by magnetic impurities in the optimally doped La-1111 iron-based superconductor"

**16.00 - Final Remarks and Farewell Coffee**

