

## **Session Program**

**9 December 2025**

# **BiCoQ Poster Festival 2025 - 3rd Annual departmental workshop**

***PhD poster session***

Bicocca , Galleria della Scienza

# Tuesday 9 December

09:30

## PhD poster session

Session | Location: Bicocca , Galleria della Scienza

09:30-09:35 **A Quantum Antenna searching for Dark Matter**

**Speaker**

Roberto Moretti

09:35-09:40 **Neutrino mass sensitivity for HOLMES+ experiment**

**Speaker**

Sara Gamba

09:40-09:45 **Is it already time to move beyond qubits? The Power of Qudits**

**Speaker**

Rodolfo Carobene

09:45-09:50

**Feasibility Study of a Gamma-Ray Detector for Fusion Power Measurement at the SPARC Tokamak**

**Speaker**

Simone Lorenzo Fugazza

09:50-09:55 **nuSCOPE: the first monitored and tagged neutrino beam**

**Speaker**

Filippo Bramati

09:55-10:00

**Rapid 210-Pb assay for monitoring the purification of archaeological lead for the RES-NOVA experiment**

**Speaker**

Marco Consonni

10:00-10:05 **Uncertainties in parameter estimation for starless halos**

**Speaker**

Francesco Turini

10:05-10:10 **Searching for massive black hole pairs at different scales**

**Speaker**

Lorenzo Bertassi

10:10-10:15 **Innovative scintillating nanocomposites for physics research**

**Speaker**

Emanuele Mazzola

10:15-10:20

**Towards the time-like pion form factor beyond the elastic regime using domain-wall QCD**

**Speaker**  
Gabriele Morandi

10:20-10:25

**POLOCALC & HoverCal drone system: Attitude reconstruction software**

**Speaker**  
Federico Astori

10:25-10:30 **Strong interactions in the early Universe**

**Speaker**  
Pietro Rescigno

10:30-10:35

**Study of discharges with X-rays at the High Voltage Padova Test Facility**

**Speaker**  
Federico Caruggi

10:35-10:40

**Coherent state detection for light dark matter searches using a multi-qubit sensor**

**Speaker**  
Marco Gobbo

10:40-10:45

**Mixing and CPV in the  $D^0 \rightarrow K^+ K^-$  decays with the bin-flip method**

**Speaker**  
Alessia Anelli

10:45-10:50

**Exploring Analog Circuits in Advanced 7nm FinFET Technology**

**Speaker**  
Matteo Chiariello

10:50-10:55

**Compact Modeling and HEMT Characterization for Microwave and Millimeter-Wave Applications**

**Speaker**  
Antonio Mordà

10:55-11:00

**Unveiling the Universe's backbone: direct imaging of the Cosmic Web**

**Speaker**  
Davide Tornotti

11:00-11:05

**The importance of EM Signatures of Massive Black Hole Binaries**

**Speaker**  
Fabiola Cocchiararo

11:05-11:10

**Finite-volume effects on smeared spectral densities**

**Speaker**  
Francesca Argia Bresciani

11:10-11:15

**Fast and Low-noise Amplifying System for SiPM Characterization in a Wide Temperature Range**

<b>Speaker</b> Davide Trotta
<b>11:15-11:20</b> <b>Real-time implementation of spectroscopy measurements at the ASDEX Upgrade tokamak</b>
<b>Speaker</b> Beatrice Tosto
<b>11:20-11:25</b> <b>Population inference of Galactic binaries from LISA's stochastic foreground</b>
<b>Speaker</b> Federico De Santi
<b>11:25-11:30</b> <b>Absolute measurements of 14MeV neutrons with diamond detectors</b>
<b>Speaker</b> Letizia Giulietta Tedoldi
<b>11:30-11:35</b> <b>Search for <math>B(c)^+ \rightarrow \ell + \nu \gamma</math>, <math>\ell = \mu, e</math> at LHCb with Run 3 data</b>
<b>Speaker</b> Alice Moro
<b>11:35-11:40</b> <b>Timing Low Energy Neutrino Events in DUNE</b>
<b>Speaker</b> Federico Galizzi
<b>11:40-11:45</b> <b>Analog Leaky Integrate-And-Fire Neuron in 7 nm FinFET Technology</b>
<b>Speaker</b> Lorenzo Stevenazzi

15:00