

A new PAMQ Laboratory at CREF

Symposium for Advanced CREF-LNF-LNGS Experimental Research

**Centro Ricerche Enrico Fermi - Museo Storico della Fisica e Centro Studi e
Ricerche “Enrico Fermi”**

Aula Fermi

27 May 2026

PROGRAM

Chair: Kristian Piscicchia

10:00 – 10:10 Kristian Piscicchia - Introduction

10:10 – 10:30 Catalina Curceanu - Quantum Mechanics tested underground: status and perspectives

10:30 – 10:50 Kristian Piscicchia - High Sensitivity X-ray Tests of Spontaneous Collapse

10:50 – 11:10 Coffee break

11:10 – 11:35 Flaminia Giacomini - Fundamental concepts at the interface between quantum theory and gravity

11:35 – 11:55 Emanuele Panella - Testing the quantum nature of gravity “ab absurdo”

11:55 – 12:15 Alessandro Scordo - The VOXES facility for precision X-ray spectroscopy @ LNF

12:15 – 14:15 Lunch break

14:15 – 15:00 visit to the new spaces designated for laboratory activities

Chair: Catalina Curceanu

15:00 – 15:20 Nicola Bortolotti - Models of spin-statistics violation: current status and future perspectives

15:20 – 15:40 Francesco Artibani - Machine Learning Background Suppression for Novel CZT Detectors

15:40 – 16:00 Alberto Clozza - VIP3 Setup by Pictures

16:00 – 16:20 Francesco Sgaramella - Optimisation of innovative Silicon Drift Detectors for the VIP-3 experiment

16:20 – 16:40 Simone Manti and Lizardou Michaela - Low-Background BEGe Studies with ^{176}Lu for Collapse Models Investigation

16:40 – 17:30 Concluding Brainstorming Session