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Ministero dell'Università e della Ricerca

Italiadomani
PIANO NAZIONALE DI RIPRESA E RESILIENZA

PRIN 2022 PNRR – Project:
Liquid-Liquid Phase Separation dynamics in biomimetic compartments (LLIPS)

Workshop on advanced methods for the study of Liquid-Liquid Phase Separation dynamics

(PRIN 2022 PNRR - LLIPS)

When: 2-3 December 2025

Where: Sala Conference (ground floor)

Department of Physics and Astronomy "Ettore Majorana"

University of Catania, Via S. Sofia, 64

Chair: Prof. Luca Lanzanò – University of Catania

(Coordinator of the PRIN Research Unit)

Università di Catania

DIPARTIMENTO DI FISICA E ASTRONOMIA "ETTORE MAJORANA"

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Program

December 2nd 2025

11.00	Welcome - Institutional Greetings
11.15	Valeria Vetri – University of Palermo (**invited**, Coordinator of the PRIN project): **Overview of the LLIPS project**
11.30	Brigitte Magdalena Merino Naranjo – University of Calabria (**invited**): **Conformational and dynamic properties of protein driving liquid-liquid phase separation**
12.15	Giuseppe Sancataldo - University of Palermo (**invited**): **Biomolecular condensates: a fluorescence perspective on water ordering**
13.00	Lunch
15.00	Santi Macaluso – University of Palermo: **Liquid-Liquid Phase Separation in a Model Binary Protein System: Structural and Environmental Determinants** (short talk)
15.20	Scientific discussion – Visit of the laboratory

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December 3rd 2025

9.15	**Keynote speaker**: Giuseppe Vicidomini – Istituto Italiano di Tecnologia, Genova: **Photon-Resolved Microscopy: Redefining Laser-Scanning Microscopy with SPAD array detectors**
10.15	Sara Anselmo – University of Palermo (**invited**): **Insights into the mechanism of b-lactoglobulin phase separation**
11.00	Coffee break
11.30	Federica Scollo – University of Catania: **Exploring the biophysical properties of protein condensation in biomimetic systems with advanced fluorescence methods**
12.15	Elisa Longo – University of Catania: **Segmented FCS on a commercial microscope: a tool for studying dynamics and interactions in live cells** (short talk)
13.00	Lunch