



University of Camerino



University of Padova



University of Salerno



The conference is held
under the auspices of the City
of San Benedetto del Tronto



San Benedetto del Tronto, Italy September 7-9, 2026

Polo didattico UNICAM
Lungomare Scipioni 6

Main Topics

- Fluctuations and BCS-BEC crossover phenomena: multicomponent and low dimensional systems.
- Highly nonlinear phenomena: Josephson and Andreev effects, topological defects, vortex states.
- Non-equilibrium superconductivity. Spin-orbitronics.
- Quantum technologies and quantum devices with superconductors and superfluids.
- Novel Quantum Phenomena with Bosons and Fermions.
- Electron-hole and Excitonic superfluidity and supersolidity.
- Numerical methods: Machine Learning, its synergies with QMC, and Quantum computing.

Scientific and Organizing Committee

Andrea Perali (Chair) and **Sebastiano Pilati**, University of Camerino, Italy
Luca Dell'Anna and **Luca Salasnich**, University of Padova, Italy
Roberta Citro and **Claudio Guarcello**, University of Salerno, Italy

Local Organizing and Technical Committee

Daniela Amendola (tech staff)
Daniele Antonozzi
Francesco Quintavalle
Edoardo Recchi
University of Camerino

MDPI Condensed Matter Awards

10th Anniversary of Condensed Matter journal.
The open access journal Condensed Matter (MDPI)
<https://www.mdpi.com/journal/condensedmatter>
offers two awards to the best presentation from young investigators.



Sponsors:

Condensed Matter journal (MDPI);
School of Pharmacy, University of Camerino, Italy,
Department of Physics, University of Salerno, Italy.
OfficineApogeo, Roma, Italy.



Social dinner:

Arca restaurant - Mediterranean Bio-Cusin - San Benedetto del Tronto

Conference Proceedings of SuperFluctuations 2026
will be published by Condensed Matter.

Deadline for submission: 30th November 2026

Antun Balaz - SuperFluctuations prize

SF2026 is dedicated to the memory of Prof. Antun Balaz
(Institute of Physics and University of Belgrade, Serbia).
The prize will be awarded to early and mid-career researchers attending
SF2026 conference, to recognize the scientific legacy of Antun Balaz
and his outstanding contribution to the theoretical and computational
physics of Bose-Einstein condensates and related systems.

Plenary Speakers - Opening session:



Klaus von Klitzing, Nobel laureate, Max Planck Institute for Solid State
Research in Stuttgart, Germany.
Exciton Condensation and Superfluidity in Quantum Hall Systems



Francesca Ferlaino, Austria's Scientist of the Year 2025, University of Innsbruck
and Institute for Quantum Optics and Quantum Information (IQOQI),
Innsbruck, Austria.
When Crystals Flow: The Emergence of Supersolid Quantum States

Invited Speakers:

Mathias Albert, Université Côte d'Azur, France
Antonio Bianconi, RICMASS, Rome, Italy
Valentina Brosco, ISC-CNR, Italy
Alessia Burchianti, CNR-INO, Italy
Annette Bussmann-Holder, Max Planck Institute for Solid State Research,
Stuttgart, Germany
Massimo Capone, SISSA, Trieste, Italy
Andrey Chaves, Universidade Federal do Ceará, Brasil.
Wayne-Jordan Chetcuti, CNRS - Grenoble, France
Fabio Cinti, University of Florence, Italy
Stefania De Palo, CNR - IOM, Trieste, Italy
Fabrizio Dolcini, Politecnico Torino, Italy
Giulia De Rosi, Universitat Politècnica de Catalunya, Barcelona, Spain
Laura Fanfarillo, CNR-ISC, Rome, Italy
Stefano Giorgini, University of Trento, Italy
Giacomo Gradenigo, University of Padova, Italy
Augusto Marcelli, University of Camerino and INFN, Turin unit, Italy
Tiago Mendes-Santos, Pasqal, France
David Neilson, University of Antwerp, Belgium
Filippo Pascucci, University of Antwerp, Belgium
Axel Pelster, Universität Kaiserslautern-Landau, Germany
Jordi Pera, Universitat Politècnica de Catalunya, Barcelona, Spain
Pierbiagio Pieri, University of Bologna, Italy
Roberto Raimondi, University of Roma Tre, Italy
Samuele Sanna, University of Bologna, Italy
Andrea Trombettoni, University of Trieste, Italy
Victor Velasco, SISSA, Italy
Patrizia Vignolo, Institut de Physique de Nice, France
Demetrio Vilardi, Max Planck Institute for Solid State Research,
Stuttgart, Germany

<https://multisuper.org/superfluctuations-2026>

