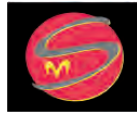




Università
di Camerino



MultiSuper Network



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



SuperFluctuations 2021

Fluctuations and Highly Non Linear Phenomena in Superfluids and Superconductors

June 14-16, 2021
On-line Conference

Jointly organized by: University of Camerino and University of Padova, Italy
in synergy with Columbia University, USA
Frontiers of Condensed Matter Physics lecture series

Main Topics

Fluctuations and BCS-BEC crossover phenomena in multicomponent and low dimensional systems.

Quantum Technologies and Novel Phenomena with Bose and Fermi Mixtures.

Highly nonlinear phenomena: Josephson and Andreev effects, topological defects, skyrmions and solitons, vortex states.

Novel quantum phenomena in multicomponent / multigap superconductors and superfluids.

Innovative numerical methods: Machine Learning and its applications.

Scientific and Organizing Committee

Luca Dell'Anna and **Luca Salasnich**, University of Padova, Italy
Andrea Perali, University of Camerino, Italy
International MultiSuper Network

In collaboration with Yasutomo Uemura, Columbia University, USA

MDPI Condensed Matter Awards

The new open journal Condensed Matter (MDPI) offers an award to the best contribution presented by a young scientist



Conference Proceedings of SuperFluctuations 2021 will be published by Condensed Matter. Submission of papers within 30th September 2021

Contact: andrea.perali@unicam.it

Invited Speakers

Antun Balaz, Institute of Physics, Belgrade, Serbia

Jonas Bekaert, University of Antwerp, Belgium

Antonio Bianconi, RICMASS, Rome, Italy - [Joint SF2021 & Columbia-FCMP Talk](#)

Massimo Capone, SISSA, Trieste, Italy

Roberta Citro, University of Salerno, Italy

Sara Conti, University of Antwerp, Belgium

Francesca Ferlaino, University of Innsbruck, Austria - [Joint SF2021 & Columbia-FCMP Talk](#)

Stefano Giorgini, University of Trento, Italy

Felipe Isaule, Universitat de Barcelona, Spain

Bruno Julia-Diaz, Universitat de Barcelona, Spain

Yoshihiro Iwasa, The University of Tokyo, Japan - [Joint SF2021 & Columbia-FCMP Talk](#)

Amit Kanigel, Technion - Israel Institute of Technology, Haifa, Israel - [Joint SF2021 & Columbia-FCMP Talk](#)

Philip Kim, Laboratory of Low Dimensional Materials, Harvard University, USA - [Joint SF2021 & Columbia-FCMP Talk](#)

Stefano Lupi, "Sapienza" University of Rome, Italy

Tommaso Macrì, Universidade Federal do Rio Grande do Norte, Natal, Brazil

Ilaria Maccari, KTH - Royal Institute of Technology, Sweden

Paulsamy Muruganandam, Bharathidasan University, India

David Neilson, University of Antwerp, Belgium

Yoji Ohashi, Keio University, Japan

Meera Parish, Monash University, Australia

Axel Pelster, TU Kaiserslautern, Germany

Sebastiano Pilati, University of Camerino, Italy

Michele Pini, University of Camerino, Italy

Mohit Randeria, The Ohio State University, USA

Alessio Recati, University of Trento and INO-CNR BEC Center, Italy

Andrea Richaud, SISSA, Trieste, Italy

Utpal Roy, IIT - Indian Institute of Technology, Patna, India

Carlos Sá de Melo, Georgia Institute of Technology, Atlanta, USA

Leticia Tarruell, Institute of Photonic Sciences, Mediterranean Tech. Park, Barcelona, Spain - [Joint SF2021 & Columbia-FCMP Talk](#)

Hiroyuki Tajima, University of Tokyo, Japan

Andrea Tononi, University of Padova, Italy

Yasutomo Uemura, Columbia University, USA

Alexei Vagov, University of Bayreuth, Germany; ITMO University, St. Petersburg, Russia