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MultiSuper Network



SuperFluctuations 2022

Fluctuations and Highly Non Linear Phenomena in Superfluids and Superconductors

Padova Italy July 6-8, 2022

Università di Padova - Dipartimento di Fisica e Astronomia *Galileo Galilei* - Aula Magna Rostagni

Hybrid On-line and On-Site Conference

Main Topics

Fluctuations and BCS-BEC crossover: multicomponent and low dimensional systems, spin-orbit coupling, FFLO states.
Novel Quantum Phenomena with Bose and Fermi Mixtures.
Highly nonlinear phenomena: Josephson effects, topological defects, vortex states.
Electron-hole and Excitonic superfluidity and supersolidity
Innovative numerical methods: Machine Learning, its synergies with QMC, and applications.
Quantum technologies and quantum devices based on novel quantum systems.

Scientific and Organizing Committee

Luca Dell'Anna and Luca Salasnich, University of Padova, Italy,
Andrea Perali, University of Camerino, Italy, and International
MultiSuper Network
Yasutomo Uemura, Columbia University, New York, USA

Sponsors

MDPI Condensed Matter Awards

The open access journal Condensed Matter (MDPI) offers two awards to the best presentation from young investigators.



Conference Proceedings of SuperFluctuations 2022 will be published by Condensed Matter.

Conference web site: www.multisuper.org

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Invited Speakers

Francesco Ancilotto, University of Padova, Italy
Antun Balaz, Institute of Physics Belgrade, Serbia
Antonio Bianconi, RICMASS, Rome, Italy
Giacomo Bighin, University of Heidelberg, Germany
Jordi Boronat, Universitat Politècnica de Catalunya, Barcelona, Spain
Massimo Capone, SISSA, Trieste, Italy
Sergio Caprara, "Sapienza" University of Rome, Italy
Roberta Citro, University of Salerno, Italy
Steven Conradson, Washington State University, USA
Sara Conti, University of Antwerp, Belgium
Matija Culo, Institute of Physics, Zagreb, Croatia,
Alessandro De Martino, City, University of London, UK
Stefania De Palo, University of Trieste, Italy
Laura Fanfarillo, University of Florida, Gainesville, Florida, USA
Koichiro Furutani, University of Padova, Italy
Kazushi Kanoda, University of Tokyo, Japan
Sergei Klimin, University of Antwerp, Belgium
Nicolino Lo Gullo, VTT - Technical Research Center of Finland, Espoo, Finland
Kin-Fai Mak, Cornell, USA
Pieralberto Marchetti, University of Padova, Italy
Francesco Minardi, University of Bologna, Italy
Doug Natelson, Rice University, USA
Ivan Morera Navarro, Universitat de Barcelona, Spain
Thereza Cristina Lacerda Paiva, Universidade Federal do Rio de Janeiro, Brazil
Axel Pelster, Technische Universität Kaiserslautern, Germany
Pierbiagio Pieri, University of Bologna, Italy
Luciano Pietronero, CREF - Centro Ricerche Enrico Fermi, Rome, Italy
Andrea Richaud, SISSA, Trieste, Italy
Carlos Sá de Melo, Georgia Institute of Technology, Atlanta, USA
Gaetano Senatore, University of Trieste, Italy
Andrea Tononi, Université Paris-Saclay, CNRS, LPTMS, Orsay, France

