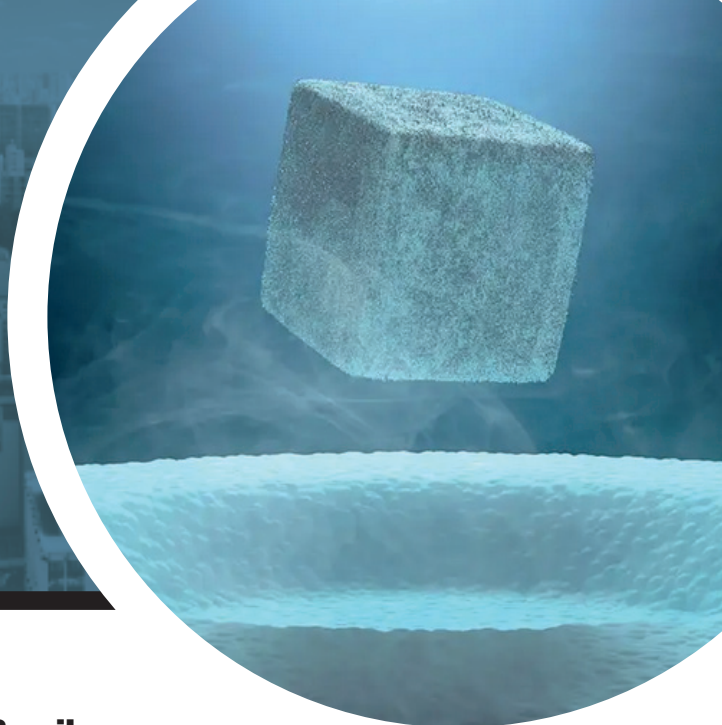




**ICTP  
SAIFR**

International Centre  
for Theoretical Physics  
South American Institute  
for Fundamental Research

# WORKSHOP ON NEW HORIZONS IN QUANTUM CORRELATED MATERIALS



**August 15-19, 2022**

**at Instituto de Física Teórica - UNESP, São Paulo, Brazil**

## CONFIRMED SPEAKERS

**Alix McCollam** (Radboud University, Netherlands)  
**Andrés Cano** (Institut Néel, France)  
**Andrés Santander-Syro** (Université Paris-Saclay, France)  
**Daniel Cabra** (Universidad Nacional de La Plata, Argentina)  
**Eduardo Miranda** (UNICAMP, Brazil)  
**Eric Andrade** (USP-São Carlos, Brazil)  
**Eva Pavarini** (Forschungszentrum Jülich GmbH, Germany)  
**Fernando Garcia** (USP-São Paulo, Brazil)  
**Gustavo S. Lozano** (Universidad de Buenos Aires, Argentina)  
**Helena Bragança** (UnB, Brazil)  
**Karen Hallberg** (Centro Atómico Bariloche, Argentina)  
**Leni Bascones** (I. de Ciencias de Materiales de Madrid, Spain)  
**Liliana Arrachea** (Universidad de Buenos Aires, Argentina)  
**Luis Gregório Dias** (USP-São Paulo, Brazil)  
**Marcelo Rozenberg** (Université Paris-Saclay, France)  
**Mariana Malard** (UnB, Brazil)  
**Milan Radovic** (Paul Scherrer Institute, Switzerland)  
**Natanael de Carvalho Costa** (UFRJ, Brazil)  
**Ricardo Lobo** (É. Supérieure de Physique et de Chimie Industrielle, France)  
**Rodrigo Pereira** (International Institute of Physics-UFRN, Brazil)  
**Valentina Martelli** (USP-São Paulo, Brazil)  
**Vivian França** (UNESP-Araraquara, Brazil)

The experimental discovery of materials displaying exotic behavior, such as unconventional superconductivity, exotic quantum orders, and nontrivial topological phases has pushed the frontiers of fundamental research in condensed matter physics. Many of the key properties of these materials emerge from the interaction between particles and the related competing energy scales. This means that they cannot be simply described by considering single-particle approximations, but require the development of new tools and nontrivial analyses.

In this workshop, we will bring together junior researchers as well as prominent experimentalists and theoreticians to discuss low dimensionality effects, frustrations, spin-orbit coupling, charge fluctuations, superconductivity, and disorder in strongly correlated systems. We expect a rich exchange of ideas during the workshop and the possible establishment of new collaborations between the participants.

Participants are invited to present their works in the poster section, and depending on the schedule, a few contributed works will be considered for oral presentations.

There is no registration fee.

**Deadline for Abstract submission:  
June 15, 2022**

**Registration deadline:  
July 3, 2022**

**Online registration and more information:  
<https://www.ictp-saifr.org/qcm2022/>**



## ORGANIZERS

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