



Workshop on Twistrionics and Moiré Materials: Bridging Theory and Experiments

Description:

The aim of the workshop is to gather world-leading theorists and experimentalists in the field of moiré materials and to create a fertile environment for fostering ideas, promoting cross-talk between communities, and exposing researchers worldwide to the great variety of exotic phenomena in these materials.

One of the most exciting developments in condensed matter physics in recent years is the emergence of moiré materials as a versatile platform to study quantum phases of matter. These materials exhibit a plethora of exotic quantum phenomena, including unconventional superconductivity, correlated insulating states, orbital magnetism, quantum anomalous Hall states, cascades of phase transitions, Chern insulators, unconventional ferroelectricity and superlubricity.

As a result, moiré physics touches many aspects of condensed matter physics, from blue sky research to cutting-edge technological applications.

TOPICS:

Flat band physics
Unconventional superconductivity
Strong correlation and correlated insulating phases
Orbital magnetism
Quantum anomalous Hall effect
Chern insulators
Moiré excitons

GRANTS:

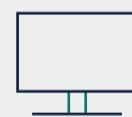
A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.



16 - 19 January 2024



Trieste, Italy



Application and Deadlines:
15 October 2023

For applicants requesting financial and/or visa support

15 November 2023

For all other applicants

FURTHER INFORMATION:

E-mail: smr3918@ictp.it

Web: <https://indico.ictp.it/event/10456/>

Female scientists are encouraged to apply.

