

# Strongly Correlated Matter: from Quantum Criticality to Flat Bands



**22 August - 2 September 2022**  
**An ICTP Hybrid Meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/9822/>  
[smr3732@ictp.it](mailto:smr3732@ictp.it)

This hybrid activity brings together junior and senior researchers to discuss latest developments in correlated and flat-band electron systems. To bring junior participants up to speed, two full days are reserved for tutorials. The rest of the program is a combination of invited talks, poster sessions, and group discussions on topics suggested by participants.

## Topics:

- Correlated phases in Moire systems
- Transport in strange and bad metals
- Superconducting pairing in quantum-critical and low carrier density systems
- Topological superconductors
- Topological orders in correlated materials
- Pair-density waves and other new orders in high-temperature superconductors
- Frustrated quantum magnets

## How to apply:

Online application:  
<http://indico.ictp.it/event/9822/>

Female scientists are encouraged to apply.

## 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.

## Directors:

A. CHUBUKOV, University of Minnesota, USA  
P. COLEMAN, Rutgers University, USA  
A. KAMENEV, University of Minnesota, USA  
H.-Y. KEE, University of Toronto, Canada  
D. MASLOV, University of Florida, USA  
T. SEDRAKYAN, University of Massachusetts, USA  
H. TAKAGI, MPI, Stuttgart, Germany  
O. VAFEK, Florida State University, USA

## Local Organiser:

R. FAZIO, ICTP, Italy

## Speakers:

G. AEPPLI, ETH  
E. ANDREI, Rutgers University  
N. ANDREI, Rutgers University  
L. BASCONES, Material Science Institute of Madrid  
L. BENFATTO, Sapienza University of Rome  
E. BERG, Weizmann Institute  
A. BERNEVIG, Princeton University  
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A. MACKENZIE, Max Planck Institute for Chemical Physics of Solids  
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J. MEYER, University of Grenoble Alpes  
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O. STARYKH, University of Utah  
Y. SOH, Paul Scherrer Institute  
D. T. SON, University of Chicago  
A. TSVELIK, Brookhaven National Laboratory  
A. VARLAMOY, University of Rome Tor Vergata  
C. VARMA, University of California  
A. YAZDANI, Princeton University  
E. ZELDOV, Weizmann Institute

## Deadlines:

**30 June 2022**

Applications needing financial support and/or visa

**14 August 2022**

Applications for online participation



The Abdus Salam  
**International Centre  
for Theoretical Physics**  
[www.ictp.it](http://www.ictp.it)  
Trieste, Italy

