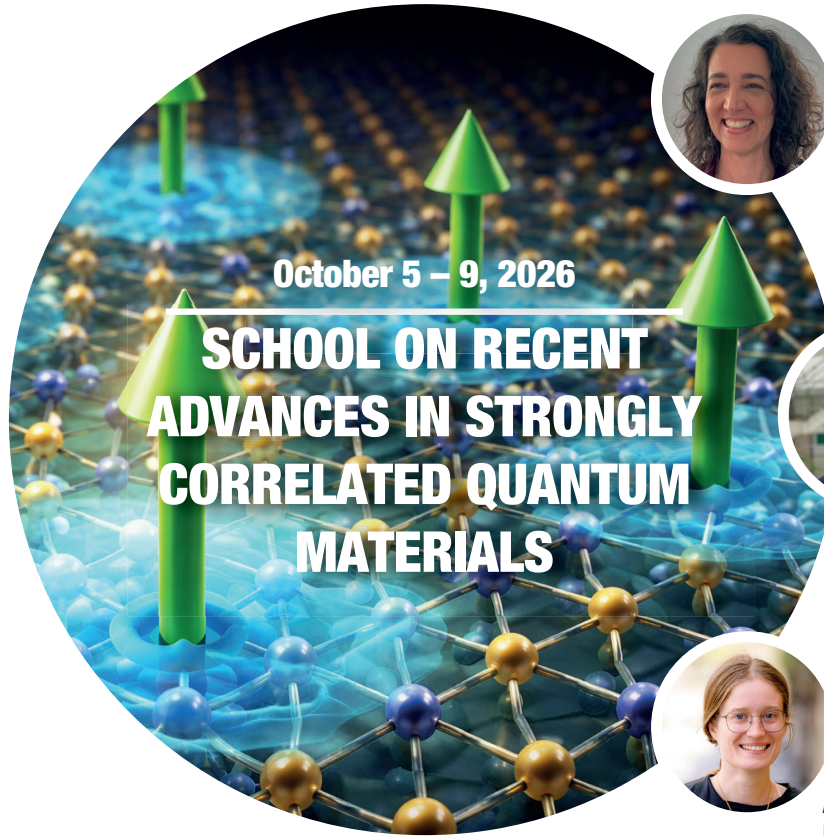




ICTP | International Centre for Theoretical Physics
SAIFR | South American Institute for Fundamental Research

Campus of IFT-UNESP – São Paulo, Brazil



October 5 – 9, 2026

**SCHOOL ON RECENT
 ADVANCES IN STRONGLY
 CORRELATED QUANTUM
 MATERIALS**



THEREZA PAIVA
UFRJ, Brazil
Numerical methods for strongly correlated systems



RODRIGO PEREIRA
UFRN and IIP, Brazil
Recent advances in magnetism: frustrated magnets and altermagnets



ALEX THOMSON
UC Davis, USA
Twisted bilayer materials

Correlated systems, where strong interactions among their constituents play a fundamental role, often exhibit remarkable phenomena. These systems display competing phases that can lead to novel ordered states and, potentially, to unexpected complex behavior. Despite the simplicity of defining their Hamiltonians, solving these systems is highly non-trivial, often requiring advanced analytical non-perturbative methods and numerical techniques.

Graduate courses often do not include many relevant developments in this field over the last 20 years. The primary goal of this school is to offer graduate students and postdocs a series of lectures that complement their foundational training.

The topics the school will cover are the following: Recent advances in magnetism: frustrated magnets and altermagnets; Twisted bilayer materials; and Numerical methods for strongly correlated systems.

The Workshop "Novel Developments in Correlated Quantum Materials" will follow this School (October 12 – 16, at Principia Institute).

Application deadline:

July 5, 2026

Online application and more information:

ictp-saifr.org/rascqm2026



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