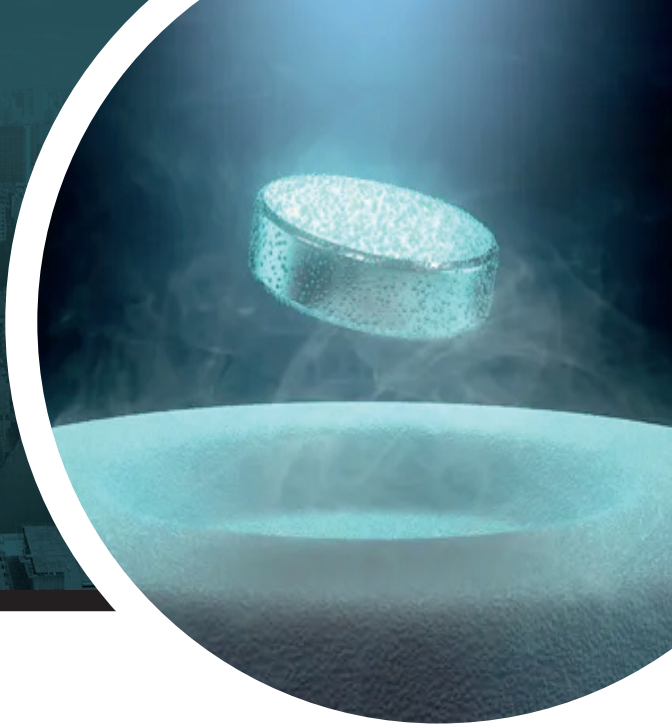
ICTP SAIFR | International Centre for Theoretical Physics South American Institute for Fundamental Research

INSTITUTO PRINCIPIA

NOVEL DEVELOPMENTS IN CORRELATED QUANTUM MATERIALS



October 12 – 16, 2026

at Principia Institute, São Paulo, Brazil

INVITED SPEAKERS

Adrian E. Feiguin (Northeastern University, USA)
Alberto Camjayi (UBA y Conycet, Argentina)
Aleksandra Krajewska (MPI- Stuttgart, Germany)
Ana Akrap (University of Zagreb, Croatia)
Andrés Santander-Syro (U. Paris-Saclay, France)
Anna Tamai (University of Geneva, Switzerland)
Artem Pronin (University of Stuttgart, Germany)
Cristiane de Morais Smith (Utrecht U., Netherlands)
David Santos-Cottin (U. of Fribourg, Switzerland)
Edson Vernek (UFU, Brazil)
Eduardo Miranda (UNICAMP, Brazil)
José Hoyos (USP-São Carlos, Brazil)
Krissia Zawadzki (USP-São Carlos, Brazil)
Laura Fanfarillo (Institute of Complex Systems, Italy)
Luca de' Medici (ESPCI-PSL, France)
Marcello Civelli (Université Paris-Saclay, France)
Mariana Malard (UnB, Brazil)
Matthieu LeTacon (KIT, Germany)
Paula Giraldo (Universidad de los Andes, Colombia)
Paula Mellado (Universidad Adolfo Ibáñez, Chile)
Rodrigo Pereira (IIP & UFRN, Brazil)
Simone Fratini (Institut Néel, France)
Thaís Trevisan (USP-São Carlos, Brazil)
Thereza Paiva (UFRJ, Brazil)
Valentina Martelli (USP-São Paulo, Brazil)
Vidya Madhavan (University of Illinois, USA)

In strongly correlated systems, exotic behavior emerges from the interaction between particles and the related competing energy scales. As a consequence, to describe them we need to go beyond single-particle approximations, which requires nontrivial analyses and the development of new experimental and theoretical techniques.

In this workshop, we will bring together young as well as prominent experimentalists and theoreticians to discuss emergent behavior, such as unconventional superconductivity, exotic quantum orders, and nontrivial topological phases.

We expect a rich exchange of ideas during the workshop and the possible establishment of new collaborations between the attendees.

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

The workshop will be preceded by a school on a related topic: "School on Recent Advances in Strongly Correlated Quantum Materials" (ICTP-SAIFR, October 5-9, 2026).

Registration deadline: August 7, 2026

Online application and more information:
ictp-saifr.org/ndcqm2026/

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