



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



WORKSHOP ON ACTIVE MATTER: MOTION, MECHANICS, AND EMERGENCE

April 5 – 9, 2027

at Principia Institute, São Paulo, Brazil

SPEAKERS

Antoine Deblais (U. of Amsterdam, The Netherlands)
Arnold Mathijssen (U. of Pennsylvania, USA)
Benjamín Loewe (Pontificia U. Católica de Chile, Chile)
Clécio C. de Souza Silva (UFPE, Brazil)
Daniel Parisi (I. Tecnológico de Buenos Aires, Argentina)
Demian Levis (U. de Barcelona, Spain)
Eric Clement (Sorbonne U., France)
Eva Kanso (U. of Southern California, USA)
Gustavo Düring (Pontificia U. Católica de Chile, Chile)
Ignacio Bordeu (U. de Chile, Chile)
Juan Ruben Gomez-Solano (UNAM, Mexico)
Leticia F. Cugliandolo (Sorbonne U., France)
Leticia Ribeiro de Paiva (UFSJ, Brazil)
Maria Luisa Cordero (U. de Chile, Chile)
Marisol Ripoll (Forschungszentrum Jülich, Germany)
Rita M. C. de Almeida (UFRGS, Brazil)
Rodrigo Coelho (CBPF, Brazil)
Sara Jabbari-Farouji (U. of Amsterdam, The Netherlands)
Silke Henkes (Leiden U., The Netherlands)
Tomás Grigera (U. Nacional de La Plata, Argentina)

Despite its relatively recent emergence, active matter has rapidly established itself as a central area of research in non-equilibrium statistical physics. By focusing on systems whose constituents consume energy to generate motion and mechanical stresses, the field has revealed a wide range of collective phenomena with no equilibrium counterparts. In recent years, significant progress has been achieved across diverse contexts, from biological systems such as cells and tissues to synthetic active materials and large-scale collective behavior.

Our Workshop on Active Matter will bring together graduate students and researchers to discuss a broad spectrum of current directions in the field. The goal is to provide a comprehensive overview of active matter, fostering interactions between theory, experiments, and simulations. Particular emphasis will be placed on further consolidating the community in Latin America, which has been increasing steadily in recent years. In addition to invited talks, selected participants will present short talks and posters, encouraging exchange of ideas and new collaborations.

This is an initiative promoted by the Physics of Life South American Network, PoLSAN. More details on PoLSAN can be found here: www.ictp-saifr.org/polsan

Limited funds are available for local expenses.

Registration deadline: February 4, 2027

**Online application
and more information:
ictp-saifr.org/wam2027**



ORGANIZERS

Emanuel F. Teixeira
Leiden University, The Netherlands
Francisca Guzmán-Lastra
Universidad de Chile, Chile
Maria Luisa Cordero
Universidad de Chile, Chile
Pablo de Castro
USP & ICTP-SAIFR, Brazil
Rodrigo Soto
Universidad de Chile, Chile

ICTP-SAIFR STEERING COMMITTEE

Atish Dabholkar (chair, ICTP director)
Maysa Furlan (UNESP rector)
Hugo Aguilaniu (Serrapilheira president-director)
Helena Nader (Brazilian Academy of Sciences president)
Juan Maldacena (South American representative)

ICTP-SAIFR SCIENTIFIC COUNCIL

Carlos Brito Cruz (chair, Elsevier)
Rosario Fazio (ICTP)
Alexandre Reily Rocha (IFT-UNESP)
William Bialek (Princeton Univ.)
Eduardo Fradkin (Univ. of Illinois)
Gabriela Gonzalez (Louisiana State Univ.)
André de Gouvêa (Northwestern Univ.)
Zvi Bern (UCLA)
Leticia Cugliandolo (Sorbonne Univ.)
Luis Lehner (Perimeter Inst.)

ICTP-SAIFR STAFF

Nathan Berkovits (Director)
Dario Rosa (Vice-Director)
Pedro Vieira (Perimeter-SAIFR Coordinator)
William Santos (Visitors Coordinator)
Bruna Cassettari (Activities Coordinator)
Humberto Neto (Executive Secretary)
Luiz Eduardo Moreira (Computer Systems Manager)
Lilia Faria (Financial Manager)
Marrey Peres, Jr. (Operations Manager)
Thiago Codinhoto (Technical Assistant)
Rebeca Doi (Technical Assistant)
Marcelo Sime (Technical Assistant)
Kalianny Bezerra (Communications Coordinator)