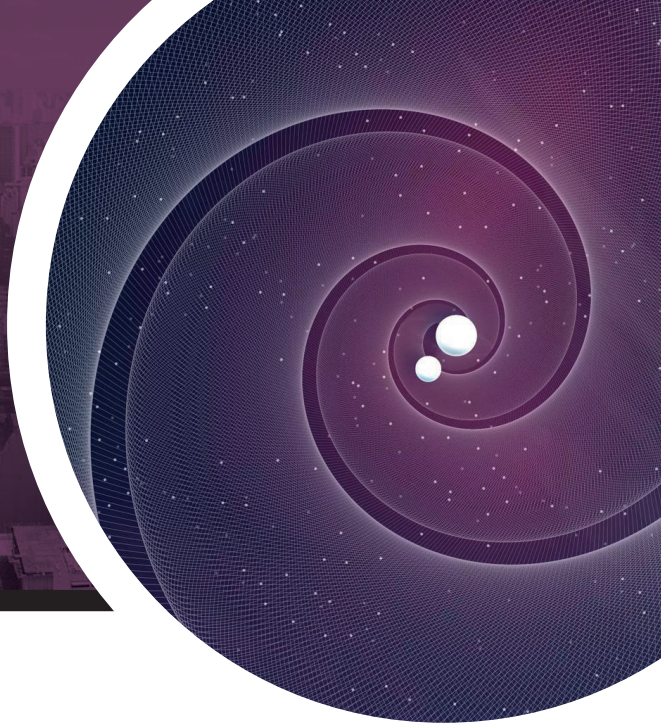
ICTP SAIFR International Centre for Theoretical Physics South American Institute for Fundamental Research

INSTITUTO PRINCIPIA

THIRD GENERATION GRAVITATIONAL WAVE DETECTORS: THE VIEW FROM LATIN AMERICA



June 29 – July 3, 2026

at Principia Institute, São Paulo, Brazil

INVITED SPEAKERS

Odylio Aguiar (INPE, Brazil)
Tabata Aira (INPE, Brazil)
Parameswaran Ajith (ICTS, India) *
Felipe Andrade-Oliveira (U. of Zurich, Switzerland)
Maria Celeste Artale (UNAB, Chile)
Pia Astone (U. La Sapienza, Italy) *
Tessa Baker (U. of Portsmouth, UK)
Laura Bernard (Obs. Meudon, France) *
Guilherme Brando (CBPF, Brazil) *
Glauber Dorsch (UFMG, Brazil)
Leila Graef (UFF, Brazil)
Rachel Gray (U. of Edinburgh, Scotland) *
Gianluca Guidi (U. of Urbino, Italy) *
Giuliano Iorio (ICCUB, Spain)
Simone Mastrogiovanni (U. La Sapienza, Italy) *
Claudia Moreno (U. of Guadalajara, Mexico) *
Osvaldo Moreschi (U. of Cordoba, Argentina) *
Cristiano Palomba (U. La Sapienza, Italy) *
Jonas Pereira (UnB, Brazil)
Farinaldo Queiroz (IIP, Brazil) *
Angelo Ricciardone (U. of Pisa, Italy) *
Antonio Enea Romano (U. de Antioquia, Colombia) *
Henrique Rubira (U. of Munich, Germany)
Marcelle Soares-Santos (U. of Zurich, Switzerland)
Bangalore Sathyaprakash (Penn State U., USA) *
Alessandro Trani (U. of Concepcion, Chile)
**To be confirmed*

The second generation Gravitational wave (GW) detectors have been operating until recently at unprecedented sensitivity, providing observations of binary system coalescences, whose sources are neutron stars and black holes with masses ranging from one to one hundred solar masses.

The new (3rd) generation of gravitational detectors consists of two projects: Cosmic Explorer (CE) and Einstein Telescope (ET), supported respectively by US and European collaborations with Latin America (LATAM) scientists involved in both projects.

With the intent of covering the wide range of fundamental physics, astronomy and cosmology topics that can be addressed by the upcoming gravitational wave detectors, the goal of the workshop is to spur the contribution of LATAM researchers to the field, with dedicated sessions to all aspects of GW science including Cosmology, Fundamental gravity, Astrophysical populations, Multimessenger astronomy, Neutron stars, Dark matter, Data analysis and Instrument science.

This workshop will be preceded by the School on Astroparticle and Multi-messenger Astrophysics from June 15-26.

Application deadline: May 10, 2026

Online application and more information:
ictp-saifr.org/3gw4la

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