

MAGIC₂₃

MAGIC₂₃ - Brazilian Workshop on Matter, Astrophysics, Gravitation, Ions and Cosmology

Email: 2023MAGIC2023@gmail.com | **Webpage:** <https://indico.cern.ch/event/>

Overview - MAGIC₂₃

The event will bring together scientists working in the areas of New phenomena and new states of matter in the Universe. General relativity, gravitation, modified gravity theories and cosmology. White dwarfs, neutron stars, pulsars and black holes. Gamma-ray emission in the Universe, high energy cosmic rays and gravitational waves. Strong magnetic fields in compact stars and in galaxies. Ultra-strong magnetic fields in neutron star mergers. Strange matter, strange stars, quark stars and magnetars. Strong magnetic fields and the cosmic microwave background. Dark matter and dark energy. Antimatter in the Universe, strong magnetic fields in the Universe. Heavy ion collisions and the formation of the quark-gluon plasma. High energy particle physics and astroparticles (theory and experiment).

MAGIC₂₃ Venue

The event will take place at [Fazenda Verde inn](#) located 16 km from the city of Garopaba and 70 km from Florianópolis. For reservations please access: [Reservations](#). See [list of hotels and inns nearby](#).



Primary Objective of MAGIC₂₃

Our understanding of the origin of the Universe, of its evolution and the physical laws that govern its behavior, as well as on the different states of matter that make up its evolutionary stage, reached in recent years unprecedented levels and a new understanding about the Universe in its two extreme domains, the very large and the very small and the recognition of the deep connections that exist between quarks and the cosmos. The workshop activities will focus on a program based on lectures and formal and informal discussions aimed at introducing the participants to new trends in theoretical, observational and experimental scientific research as well as to advanced ideas to facilitate and promote their engagement in cooperative programs and projects. The name of the workshop is represented by the acronym MAGIC: Matter, Astrophysics, Gravitation, Ions, and Cosmology and intends to emphasize topics potentially relevant to academic scientific development at local and national levels.



MAGIC23 Program and Timetable

For the scientific program and timetable of the event access [MAGIC23 Program](#) and [MAGIC23 Timetable](#).

Registration

For the registration please access [MAGIC23 Registration](#).

Call for Abstracts

The call for abstracts is open. Please access [CallForAbstracts](#).

Contributions and Participants Lists

Contributions and participants lists may be accessed in [MAGIC23 Contributions](#) and [MAGIC23 Participants](#).

Book of Abstracts

For the book of abstracts please access [MAGIC23 BookOfAbstracts](#).

Organizing Committee

Benno Bodmann, Bruna Folador, Carlos Javier Solano Salinas, César Zen Vasconcellos, Daniel Tavares da Silva, Debora Perez Menezes, Dimiter Hadjimichef, Elena Bratkovskaya, Fridolin Weber, Gabriela Piccinelli, Guilherme Volkmer, Horst Stoecker, Jörg Aichelin, Jorge Horvath, Luan Costa, Magno Machado, Marcelo Marzola, Marcus Bleicher, Mariana Vargas, Mario Luiz Lopes da Silva, Milton Gamarra, Moisés Razeira, Peter Hess, Rafael Cavagnoli, Ricardo Felipe, Steven Gullberg, Thomas Boller, Vinicius Silveira.

