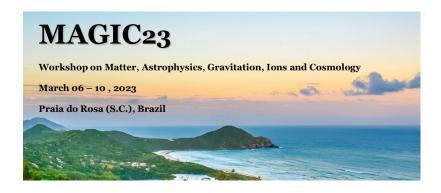
MAGIC23 Workshop (Matter, Astrophysics, Gravitation, Ions and Cosmology)



Monday 6 March 2023 - Friday 10 March 2023 Praia do Rosa (S.C.), Brazil

Scientific Programme

Matter

New phenomena and new states of matter in the Universe High energy particle physics and astroparticles (theory and experiment) QCD matter at finite temperature and density Heavy flavors, quarkonia, and strangeness production Antimatter in the Universe

Astrophysics

White dwarfs, neutron stars, pulsars and black holes (experimental)
Gamma-ray emission
High energy cosmic rays
Gravitational waves

Gravitation

General relativity
White dwarfs, neutron stars, pulsars and black holes (theory)
Strong magnetic fields in compact stars
Strange matter, strange stars, quark stars and magnetars
Modified gravity theories

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Heavy ion collisions and the formation of the quark-gluon plasma Lattice QCD and heavy-ion collisions Ultra-peripheral collisions

Cosmology

Dark matter (theory, observations, detection)
Dark energy
Multimessenger cosmology (gravitational waves, cosmic rays, neutrinos)
Inflation and the primordial universe
Large Scale Structure