Special Issue

Recent Advances in Quantum Gravity

Message from the Guest Editor

This Special Issue is devoted to new and recent theoretical investigations aiming at understanding physical aspects of the fundamental gravitational interaction which should be relevant at the quantum level, both from top–down (mathematical methods and general theory to phenomenology) as well as bottom–up (studies of specific systems to general theory) approaches, and with applications to the astrophysics of very compact and exotic objects, black hole physics, and the issue of space-time singularities, gravitational wave production in black hole mergers, and cosmology of the early and present Universe.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2021)

About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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