

Special Issue

Quantum Gravity and Cosmology: Exploring the Astroparticle Interface

Message from the Guest Editors

In the last three or four decades, much has happened in cosmology, and we have had the pleasure to find out very surprising things about the world we live in. These decades have also been instrumental in the development of a possible quantum gravity theory, with various approaches being put forward. The idea that appears to be shaping up is that it is pivotal to understand the nature of gravity at the smallest scales to unlock the prevalent issues of interest in dark energy and matter, among others, and that, at the same time, cosmological probes and observations may provide us with an unexpected and currently underrated arena for testing quantum gravity. Hence, it is important for researchers in these fields to explore these matters further. As such, in this Issue, we would like to include interesting works on the connection between quantum gravity and cosmology, further highlighting these notions and revealing subtleties.

Guest Editors

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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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