

Special Issue

Symmetry or Asymmetry in Cosmology

Message from the Guest Editors

Much like in particle physics, symmetries play a fundamental role in cosmology and have proved to be an invaluable tool in theoretical research, such as in the effective field theories of inflation, dark energy, and the large-scale structure; consistency relations and soft theorems of correlation functions; and the cosmological bootstrap program. On the other hand, asymmetries (or the breaking of symmetries) are likewise fundamentally important, potentially serving to gain insight into a wealth of new physics, for instance, through the mechanisms of baryogenesis, leptogenesis, or parity violation in cosmological observables, particularly gravitational waves. This Special Issue aims to explore the impact of symmetry and asymmetry as guiding principles in cosmological research, including fundamental aspects of early universe physics; model building as applied to inflation, dark matter, and dark energy; and phenomenological, observational, and data analysis-oriented work aiming to measure and constrain these. Through the inclusion of this broad set of research approaches, the Special Issue aims to mirror the unprecedented advances in theoretical and experimental cosmology...

Guest Editors

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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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