Special Issue

Symmetry in Cosmological Theories and Observations

Message from the Guest Editors

The field of cosmology has witnessed remarkable advancements in recent years, reshaping our understanding of the Universe. As cosmological research continues to evolve, it permeates various aspects of science, revolutionizing our comprehension of the cosmos and enhancing our interaction with fundamental physical laws. The study of symmetry and asymmetry plays a pivotal role in diverse domains, ranging from the early Universe, dark matter, and dark energy to cosmic microwave background radiation, gravitational waves, and galaxy formation. The synergy of theoretical advancements, observational data, and increasingly powerful computational methods enables us to push the boundaries of what is attainable and sets the stage for future breakthroughs. This Special Issue aims to explore the profound impact of symmetry (and asymmetry) in cosmological theories and observations, shedding light on emerging trends and cutting-edge research.

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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.

Editor-in-Chief

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