Special Issue

Modified Gravity and Related Symmetries

Message from the Guest Editors

We are pleased to announce a Special Issue of *Symmetry*, titled "Modified Gravity and Related Symmetries", and invite you to contribute your research to this exciting collection. Despite its tremendous success, Einstein's general relativity is not free of shortcomings. The study of modified gravity theories has recently become a cornerstone of modern theoretical physics, offering profound insights into the nature of spacetime, cosmology, and the fundamental symmetries which underpin our understanding of the universe. This Special Issue aims to explore the interplay between modified gravity theories and the symmetries that govern them, including but not limited to Lorentz invariance, diffeomorphism invariance, de Sitter invariance, Anti de Sitter invariance, scale invariance, etc. We welcome contributions that address both theoretical developments and observational implications of modified gravity, as well as their connections to symmetry principles. We encourage submissions of original research articles, reviews, and perspectives that advance our understanding of these topics.

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Deadline for manuscript submissions

31 January 2026

Symmetry

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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