Special Issue

Modified Gravity: Exploring Black Holes, Compact Objects, Wormholes, and Beyond

Message from the Guest Editors

The field of **modified gravity** is growing, with new models such as **higher order gravity, non-minimal coupling gravity, scalar-tensor gravity, gravity with extra field contents, higher dimension gravity, etc.** This offers novel aspects to describe the phenomena like dark energy, dark matter, and cosmic acceleration. These theories provide new ways to approach long-standing questions in gravitational physics, with implications for gravitational waves and the overall dynamics of the universe. Key topics include:

- **Black holes**: New solutions, quantum effects (Hawking radiation), and singularity resolution.
- **Compact objects**: Neutron stars, quark stars, and their properties in extreme gravity.
- **Wormholes**: New structures, stability, traversability, and theoretical advancements in modified gravity.

We encourage you to contribute to this exciting Special Issue. By sharing your research, you will join a community of experts exploring the frontiers of gravitational physics and shaping the future of the field. We look forward to your submissions!

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.

Editor-in-Chief

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