# Relativistic Gravity, Cosmology and Physics of Compact Stars

Guest Editor:

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## Message from the Guest Editor

The proposed Special Issue will cover actively pursued subjects of modern relativistic astrophysics and cosmology. It will include articles touching on the most diverse aspects of the field, such as modern problems in Einstein's classical theory of gravity and its alternatives, string theory-motivated cosmological models, quantum field theory in a curved background, quantum effects in cosmological models with nontrivial topology, quantum effects in a braneworld scenario, the properties of superdense matter and the relativistic structure of compact stellar objects, the vast diversity of the manifestations of compact stars, including the modern aspects of the equation of state of superdense matter, its magnetic and thermal properties, rotational dynamics, superfluidity and superconductivity, and phase transition from hadronic to quark matter.

Special Issue

## Editor-in-Chief

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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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