



## Exploring and Testing Cosmological Models

Guest Editors:

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**Dr. Francesco Pace**

Deadline for manuscript  
submissions:

**closed (30 September 2023)**

### Message from the Guest Editors

This Special Issue intends to explore research articles focusing on current issues of modern cosmology and astrophysics, investigating early, intermediate and late times of the universe's evolution and proposing alternatives to the standard cosmological scenario. This Special Issue focuses on the study of cosmological models, early-time cosmology, simulations in cosmology, numerical approaches to cosmology, dark matter distribution, small perturbations, solutions to the cosmological constant problem, dynamical systems in cosmology, quantum cosmology, extended theories of gravity, modified theories of gravity, etc. We also welcome the study of relativistic astrophysics in a broad sense. In this respect, wormhole physics, black hole physics, strange stars, gamma-ray bursts, relativistic thermodynamics, nonequilibrium thermodynamics and all possible applications to cosmology are emphasized in this Special Issue.

We also expect to receive review articles describing the current state-of-the-art within this broad subject.

For more details: <https://www.mdpi.com/si/134283>





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## Message from the Editorial Board

*Galaxies* provides an advanced forum for studies related to astronomy, astrophysics, and cosmology, including all of their subfields. Different formats, such as specialized research articles, reviews, communications and technical notes are welcomed. Manuscripts containing original and creative research proposals and ideas are especially appreciated.

We encourage scientists to publish their astronomical observations and theoretical results in as much detail as possible. There is no restriction on the paper length and full experimental and methodological details, as applicable, should be provided. All papers will be peer reviewed promptly. On behalf of the distinguished members of the editorial board, I extend my welcome to all researchers working on these subjects to contribute to *Galaxies*.

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