

Special Issue

Theoretical Physics and Cosmology: A Themed Issue in Honor of Professor Emilio Elizalde on the Occasion of His 75th Birthday

Message from the Guest Editors

Theoretical physics and cosmology are dynamic fields seeking to understand the universe's fundamental laws. To commemorate Professor Emilio Elizalde's 75th birthday and his remarkable achievements in the fields, we are pleased to present this Special Issue. This Special Issue aims at exploring advanced cosmological models, particularly focusing on gravitational waves, viscous cosmology, dark energy and modified gravity theories. Common themes include the investigation of quantum effects, brane cosmologies, and the implications of various gravitational frameworks on the universe's evolution. Methodologies often involve mathematical modeling and analysis of the Friedmann–Robertson–Walker equations, as well as the study of singularities and asymptotic behaviors in cosmological scenarios. The overarching goal is to deepen the understanding of cosmic acceleration, the nature of dark energy, and the potential future states of the universe, contributing to the broader field of theoretical physics and cosmology.

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About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
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