

Special Issue

Cosmology in the High-Precision Era: Observations, Theory, and Their Symbiosis

Message from the Guest Editor

Observational cosmology has experienced impressive advances in the last 25 years, and it will continue improving in this decade thanks to the launch of the next generation of satellites, new ground-based CMB experiments, and the opening of new windows to the universe that will allow us to exploit the cosmological information encoded in gravitational waves, HI intensity maps, etc. Although the Λ CDM model has been able to explain a large variety of cosmological observations, ranging from the Hubble diagram of high-redshift supernovae of type Ia to the very precise CMB anisotropy maps measured by Planck, it is not free of tensions and there are still many open (and very fundamental) questions concerning some of the building blocks of the model. [...] This Special Issue is open to contributions from theorists, observationalists, and researchers bridging the gap between theory and observations. It aims to gather a series of works tackling the questions posed above, and studies about the impact of current and future cosmological observations on our understanding of the universe.

Guest Editor

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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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