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Cosmic String Theory and Observations

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is dedicated to the latest research on cosmic strings, both theory and observations based on modern radio and optical instruments, as well as cosmic string simulations for future experiments.

The search for cosmic strings is one of the intriguing problems of modern astronomy, cosmology, and particle physics. The complexity of the cosmological scenario regarding cosmic strings remains an obstacle to our complete understanding. Cosmic strings are hypothetical one-dimensional objects at cosmological scales that, while predicted by the theory, have not yet been detected. Their “zoo” is quite rich. They can be purely topological entities, formed as a result of phase transitions in the vacuum stages of the expansion and cooling of the early Universe, or hybrid topological and field configurations.

The phenomenon of cosmic strings should be conducted simultaneously in theory and in observations. This Special Issue will present scientific results of cosmic string observational strategy with a comprehensive approach.

For more information, please visit: mdpi.com/si/44587.



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Special Issue



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Message from the Editor-in-Chief

The multidisciplinary *Universe* journal 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 editorial board, I extend my welcome to this new journal and look forward to hearing from the interested contributors and learning about their valuable research.

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