Special Issue

Quantum Field Theory, Gravity and the Dark Universe

Message from the Guest Editors

The comprehension of physical phenomena such as the accelerated expansion of the universe, known as the dark energy problem, the anomaly in the rotation curves of galaxies and the stability of galaxy clusters, that requires the introduction of dark matter, the baryon asymmetry in the early universe represents a serious challenge in modern physics. Deeper insights on elementary particles may shed light on the quantum foundations of space-time, on the universe on a large scale, and vice versa. We invite submissions of both original papers and review articles to this Special Issue which focus on any aspect of gravitational physics, including quantum field theory in curved space-time and physics beyond the standard model of particles, cosmology, dark matter and energy, and modified theories of gravity, together with quantum gravity and quantum space-time. The study of these and other related topics are the goal of this special issue, [...] For further reading, please follow the link to the Special Issue Website.

Guest Editors

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Deadline for manuscript submissions

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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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