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Quantum Physics including Gravity: Highlights and Novelties

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Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to provide a collection of both research papers and review papers on the fascinating problems of quantum physics including gravity, from quantum fields in curved space times to Planckian and trans-Planckian physics and quantum space-time, at the cutting edge of these domains and their most recent advances, whether being of foundational and conceptual nature or of implications and implementations; in cosmology, black holes, non-trivial vacua, topologies, and geometries, being within the known approaches and frameworks, or with new research avenues in these fields, as well as experimental and observational tests and results. Topics include:

- Quantum fields and strings in curved space times, theory and applications.
- Quantum physics and black holes, semiclassical and quantum black holes.
- Quantum fields in cosmology, inflation and dark energy.
- Planckian and trans-Planckian physics.
- Quantum space-time.



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Special Issue



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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.

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