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Recent Advances in Quantum Cosmology

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Message from the Guest Editor

Dear Colleagues,

This Special Issue aims at focusing attention on the most recent and promising developments in quantum cosmology, both in the canonical formulation, as well as in covariant approaches (e.g., path integral or covariant loop quantum gravity studies). Three main aspects are considered: (i) proposals for suitable clocks in quantum cosmologies; (ii) the implementation of fundamental symmetries in the mini-superspace; (iii) the emergence of Big-Bounce dynamics. Implications on universe quantum dynamics, coming from extended theories of gravity, are also considered. We invite the submission of original papers in the form of regular articles or short letters, but also review articles dedicated to selected topics in quantum cosmology.

Prof. Dr. Giovanni Montani
Guest Editor



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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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