



universe



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Inflationary Universe Models: Predictions and Observations

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Message from the Guest Editor

Dear Colleagues,

The inflationary paradigm, for the description of the first moment in the history of the universe stands strongly, since it solves several problems that a description of the evolution of the universe without any inflationary era is not able to solve. However, more than a hundred different inflationary universe models have been developed. We need to eliminate as many as possible in order to obtain a greater knowledge of the initial era of the universe. In this volume of the journal *Universe* we invite researchers to collect observational results and confront them with the predictions of different inflationary models in an effort to falsify as many as possible. Additionally, we invite theoreticians to judge the strength of different inflationary models—which have a sound physical basis and which are ad hoc ‘toy models’.

Prof. Øyvind G. Grøn
Guest Editor



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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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