

## Special Issue

# Inflationary Universe Models: Predictions and Observations

### Message from the Guest Editor

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

Prof. Dr. Øyvind Grøn

Art and Design, Faculty of Technology, Oslo and Akershus University  
College of Applied Sciences, P.O. Box 4 St., Olavs Plass, NO-0130 Oslo,  
Norway

---

### Deadline for manuscript submissions

closed (30 November 2017)



## Universe

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.2



[mdpi.com/si/8240](https://mdpi.com/si/8240)

*Universe*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[universe@mdpi.com](mailto:universe@mdpi.com)

[mdpi.com/journal/  
universe](https://mdpi.com/journal/universe)





# Universe

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.2



[mdpi.com/journal/  
universe](https://mdpi.com/journal/universe)



## 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  
Ministero dell' Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari,  
Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Astrophysics Data System, INSPIRE, CAPIus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (General Physics and Astronomy)