



*universe*



an Open Access Journal by MDPI

## Advances and Limitations of Modified Gravity

Guest Editors:

**Dr. Geová Maciel De Alencar**

Departamento de Física, Campus do Pici, Universidade Federal do Ceará, Fortaleza 60455-760, CE, Brazil

**Dr. Marcony Silva Cunha**

Departamento de Física, CCT, Universidade Estadual do Ceará, Fortaleza 60714-903, Brazil

**Prof. Dr. Job Saraiva Furtado**

Departamento de Física, Universidade Federal do Cariri (UFCA), Av. Tenente Raimundo Rocha, Cidade Universitária, Juazeiro do Norte 63048-080, Brazil

### Message from the Guest Editors

Despite the enormous success of general relativity, some questions remain unanswered, such as problems related to dark energy, dark matter, inflation, and quantum description of gravity, among others. The new era of high-precision tests of general relativity, with LIGO, VIRGO, EHT, and JWST, has attracted renewed interest among the community in alternative theories of gravity. There are several modified theories of gravity proposed in the literature so far; thus, a Special Issue on the advances and limitations of modified theories of gravity is of great importance. This Special Issue will be hosted in an open access, peer-reviewed journal which publishes original and quality research on all aspects of gravitational physics and cosmology. 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.

Deadline for manuscript submissions:

**closed (31 March 2024)**



[mdpi.com/si/159055](https://mdpi.com/si/159055)

# Special Issue



*universe*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Lorenzo Iorio**

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

## 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.

## 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, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Astronomy and Astrophysics*) / CiteScore - Q2 (*General Physics and Astronomy*)

## Contact Us

---

Universe Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/universe  
universe@mdpi.com  
X@Universe\_MDPI