

# Special Issue

## Focus on Dark Matter

### Message from the Guest Editors

Dark matter is one of the basic cornerstones of the modern theory of structure, and the evolution of the universe and its physical nature is among the hottest topics of modern fundamental physics. At the microscopic level, dark matter should represent new stable forms of particles. Originating from the very early universe, it reflects the existence of processes, governed by the (unknown) laws of ultra-high energy physics. Being dominant in the matter content of the modern universe, it still remains enigmatic for its direct and indirect searches. We focus in this issue on the possible physical nature of dark matter in its relationship with physics beyond the standard model and physics of the very early universe and the ways to probe this nature in underground, collider, and cosmic ray experiments, as well as in astronomical and astrophysical data. We invite authors to contribute to this issue and to help us to make a step in the attempt to shed light on this dark side of the modern Universe.

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### Guest Editors

Prof. Dr. Maxim Y. Khlopov

Prof. Dr. Antonino Marciano

Prof. Dr. Andrea Addazi

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### Deadline for manuscript submissions

closed (30 November 2022)



## Universe

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## 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.

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### Editor-in-Chief

Prof. Dr. Lorenzo Iorio  
Ministero dell' Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari,  
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