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New Challenges in Modified Gravity at Cosmological and Astrophysical Scales

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Deadline for manuscript submissions:
closed (10 April 2022)

Message from the Guest Editors

This Special Issue aims at collecting and exploring new work with regards to solving methods and analytical solutions in gravitation theory, with applications in astrophysics and cosmology.

Potential topics include, but are not limited to, the following:

- Symmetries in modified gravity (e.g., Lie and Noether symmetries)

- New exact and perturbative solving methods of the gravitational field equations

- Analytical solutions in astrophysical and cosmological background

- Conformal and disformal transformations connecting different theories of gravity

- Construction of theories with extra dynamical fields

- Dynamical systems approaches and methods in higher-order theories



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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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