



universe

an Open Access Journal by MDPI



Finsler Modification of Classical General Relativity

Guest Editor:

Dr. Volker Perlick

University of Bremen, Bremen,
Germany

Deadline for manuscript
submissions:

closed (31 December 2020)

Message from the Guest Editor

Dear Colleagues,

General relativity is a very successful theory that is in agreement with all observations to date (if one accepts the existence of dark matter). Nonetheless, there are good reasons for investigating possible modifications of this theory. One modification is in replacing the pseudo-Riemannian metric on which general relativity is based by a Finslerian metric. There are at least two motivations for considering such a modification: The first motivation comes from the fact that a slight modification of the Ehlers–Pirani–Schild axiomatic approach to spacetime theory leads in a very natural way to a Finsler structure. The second motivation is based on the idea that some effects from a still-to-be-found quantum theory of gravity could be described in terms of a classical ("effective") Finslerian spacetime theory. [...]

For more information, please visit [link](#).

Dr. Volker Perlick

Guest Editor



mdpi.com/si/21217

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 & Astrophysics*) / CiteScore - Q2 (*General Physics and Astronomy*)

Contact Us

Universe Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/universe
universe@mdpi.com
X@Universe_MDPI