Relativistic Cosmology, Numerical Analysis, General Relativity and Modified Gravity Theories

Guest Editors:

Dr. Zeeshan Yousaf
Department of Mathematics, University of the Punjab, Quaid-i-Azam Campus, Lahore 54590, Pakistan

Dr. Kazuharu Bamba
Faculty of Symbiotic Systems Science, Fukushima University, Fukushima 960-1296, Japan

Dr. M. Z. Bhatti
Department of Mathematics, University of the Punjab, Quaid-i-Azam Campus, Lahore 54590, Pakistan

Deadline for manuscript submissions:
closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue welcomes original research articles that focus on the analysis of astrophysical objects in the context of Extended Gravity Theories. We also welcome the paper related to numerical simulations of linear and non-linear dynamical systems. We are hoping to attract studies regarding the possible attainment of high masses of neutron stars and white dwarfs from the Extended Gravity Theories perspective. Moreover, the question of whether it is possible to obtain nonexotic matter wormhole solutions in these theories is expected to be addressed. The physical consequences of studying black holes, strange stars, and gravastars in Extended Gravity Theories are also welcome. The purpose of this special issue is to compile original findings with an emphasis on numerical and theoretical challenges in dynamical systems. Review articles on the current state of the art are also invited.

Dr. Zeeshan Yousaf
Dr. Kazuharu Bamba
Dr. M. Z. Bhatti
Dr. Tayyaba Akram
Guest Editors

mdpi.com/si/43217

Special Issue

Editors-in-Chief

Dr. Margo Aller
Department of Astronomy, University of Michigan, Ann Arbor, MI 48109-1042, USA

Dr. Jose L. Gómez
Instituto de Astrofísica de Andalucía (IAA-CSIC), Glorieta de la Astronomía S/N, 18008 Granada, Spain

Message from the Editorial Board

Galaxies provides an advanced forum for studies related to astronomy, astrophysics, and cosmology, including all of their subfields. Different formats, such as specialized research articles, reviews, communications and technical notes are welcomed. Manuscripts containing original and creative research proposals and ideas are especially appreciated.

We encourage scientists to publish their astronomical observations and theoretical results in as much detail as possible. There is no restriction on the paper length and full experimental and methodological details, as applicable, should be provided. All papers will be peer reviewed promptly. On behalf of the distinguished members of the editorial board, I extend my welcome to all researchers working on these subjects to contribute to *Galaxies*.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, ESCI (Web of Science), Astrophysics Data System, INSPIRE, Inspec, and other databases.
Journal Rank: CiteScore - Q2 (*Astronomy and Astrophysics*)

Contact Us