



universe



an Open Access Journal by MDPI

Exotic Scenarios for Compact Astrophysical Objects

Guest Editors:

Dr. Vlasios Petousis

Institute of Experimental and
Applied Physics, Czech Technical
University, 11000 Prague, Czechia

**Prof. Dr. Charalampos
Moustakidis**

Department of Nuclear and
Elementary Particle Physics,
School of Physics, Faculty of
Sciences, Aristotle University of
Thessaloniki, 54124 Thessaloniki,
Greece

Prof. Dr. Martin Veselsky

Institute of Experimental and
Applied Physics, Czech Technical
University, 11000 Prague, Czechia

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

One of the most important problems of physics and astrophysics is the internal structure of compact objects, including neutron stars, boson stars, white dwarfs and compact dark objects as well. On the other hand, the accelerated improvement of the research, concerning the study of gravitational waves, has opened important perspectives to study the above theoretical predictions. We expect that in the near future, with the help of the detection of gravitational waves from events associated with compact objects (binary neutron star merger, various instability modes, etc.) and other observations including mainly the X-ray radiation and gamma-rays burst, the theoretical predictions and speculations will be able to be tested, providing us answers to some of the most fundamental problems of physics. The scope of the present Special Issue is to expose the above important problems and to highlight how they can be addressed both from the theoretical and observational point of view, [...]

For further reading, please follow the link to the Special Issue Website.



mdpi.com/si/160112

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, CAPus / 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](https://twitter.com/Universe_MDPI)