

Special Issue

CP Violation in the Universe

Message from the Guest Editors

In 1964 the CP violation was first observed in decays of neutral kaons, but not in enough amount to explain the observed BAU, but at least allowed to show that matter and anti-matter are intrinsically different. This CP-violating phenomenon was explained in the context of the Standard Model (SM), including the existence of a third generation of quarks, not seen up to that moment. As is well known, the Standard Model must be incomplete and extra sources of CP violation must exist to explain BAU after the Big Bang. Therefore, several extensions of the SM have been proposed, and most of them contain additional sources of CP violation. Then, if any of these extensions is correct, the first proof of physics beyond the SM may come from searches of CP violation. Research articles/review articles on experimental results as well as new phenomenological/theoretical ideas are welcome to be part of this Special Issue. **Keywords**

- Standard Model
- Baryon asymmetry of the Universe (BAU)
- Baryogenesis and Leptogenesis
- CP Violations in Meson Physics/Baryon Physics
- Neutrino Physics
- Physics Beyond the Standard Model

Guest Editors

Prof. Dr. Choong Sun Kim

Department of Physics, Yonsei University, Seoul 120-749, Republic of Korea

Dr. Jilberto Zamora-Saa

Department of Physics, Andres Bello University, Santiago, Chile

Deadline for manuscript submissions

closed (15 October 2020)



Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.2



mdpi.com/si/34460

Universe
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
universe@mdpi.com

[mdpi.com/journal/
universe](https://mdpi.com/journal/universe)





Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.2



[mdpi.com/journal/
universe](https://mdpi.com/journal/universe)



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.

Editor-in-Chief

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

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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Astronomy and Astrophysics) / CiteScore - Q2 (General Physics and Astronomy)