# Special Issue

# Neutrino Physics and Symmetries

### Message from the Guest Editors

Neutrino physics is an active subject of study, currently analyzed not only in particle physics, but also in cosmology, astrophysics and nuclear physics. Since the discovery of the neutrino oscillation, which implies non-zero masses of at least two neutrino flavors, numerous advances have been achieved. Perhaps one of the most challenging problems in neutrino physics is its small mass. Beyond the mass puzzle, the determination of whether neutrinos are Dirac or Majorana particles remains one of the key unanswered questions in particle physics. In addition, it is crucial to understand CP violation in the lepton sector, which has implications for the matter–antimatter asymmetry in the universe. Moreover, neutrino physics is essential to understand several nuclear and astrophysical phenomena. We kindly extend an invitation to participate in this Special Issue of *Symmetry*, in the spirit of a broad discussion of the topic.

### Guest Editors

Prof. Dr. Eduardo Bauer

Dr. Floyd W. Stecker

Prof. Dr. Jiajie Ling

### Deadline for manuscript submissions

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

mdpi.com/journal/symmetry

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### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

### Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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