

# Special Issue

## Neutrino Masses and Oscillations

### Message from the Guest Editors

Neutrino oscillation is an intriguing phenomenon. It arises from the mixing between the flavor and mass eigenstates of neutrinos and introduces at least six new parameters to our model of particle physics. Luckily, it's an effect that can be manipulated in our laboratories. These experiments have narrowed down the allowed ranges of neutrino mass splittings and mixing angles. Do neutrinos follow a normal ordering or an inverted ordering? Do neutrino masses and mixing have new symmetries? Do neutrino oscillations violate charge-parity? To address these problems, precision measurement becomes a requirement. It demands larger and more precise detectors, and deeper understanding of the production and detection mechanisms of neutrinos. This special issue is dedicated to discussing the status and prospects of current and future neutrino oscillation searches, as well as the implications to particle physics, astronomy, cosmology, et.al. The study of these and other related topics are the goal of this special issue, [...] For further reading, please follow the [link](#) to the Special Issue Website.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 September 2024)



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## 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.

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### Editor-in-Chief

Prof. Dr. Lorenzo Iorio  
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