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Neutrinos from Artificial Sources

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Message from the Guest Editors

In the visible Universe, neutrinos are the most abundant particles after photons; nevertheless, their interactions with matter are rare, only through weak forces, which makes the study of their properties very challenging. In recent years, outstanding results have been achieved with natural neutrino sources, leading to a Nobel Prize in 2015 for the discovery of the neutrino flavor oscillations. Nowadays, man-made neutrino sources offer a powerful tool for the precision era of neutrino physics, able to help in shedding light on some of the most important open questions in the physics community, such as why there is more matter than antimatter in the Universe. Assets derived from exploiting neutrinos produced in artificial sources are different. The main topics this Special Issue will cover are related to the physics reach of man-made neutrinos produced via both conventional and novel techniques, specifically: Reactor antineutrinos: Accelerator neutrino beams: Neutrinos from decay at rest; Neutrino from spallation sources;

- Neutrino from muon storage rings;
- Beta beam neutrinos.



Specialsue





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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.

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