Special Issue

Dark Matter and Neutrino Physics

Message from the Guest Editor

The recent discoveries of the Higgs Boson and the Gravitational Waves have fully confirmed the solidity of two theories on which our understanding of the Universe is based, the Standard Model and General Relativity. However, key pieces of the puzzle are missing. What are the neutrino masses? Are they Majorana particles? Is lepton number conservation violated? How does dark matter interact and what is it made of? These and other questions impose theoretical and experimental challenges that the scientific community has been addressing for years, crossing the traditional disciplinary boundaries and, establishing strong links among nuclear physics, astrophysics and cosmology. This Special Issue aims to gather the latest developments in Dark Matter and Neutrino Physics to provide a clear picture of the progress made and the new challenges of the coming decades.

Guest Editor

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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

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