

Special Issue

Recent Advances in Neutrino Detectors

Message from the Guest Editor

We are embarking on an exciting new era of unprecedented precision in neutrino physics, enabled by innovative developments in detector instrumentation. A confluence of emerging technologies is expanding the frontiers of accessible energies and time scales, affording new and richer insights about interactions and allowing for detectors of immense target masses, all providing novel and more sensitive probes to address fundamental questions at the heart of particle physics and the nature of matter and the universe. This Special Issue aims to highlight recent developments in neutrino instrumentation, including assessments of technologies fielded in fully integrated detectors, advanced techniques being investigated for next-generation experiments, and creative ideas under development for future applications. This issue seeks to provide a compelling snapshot of the instrumentation technologies at the forefront of neutrino discovery today and in the coming years.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The realization of dedicated instrumentation has always been a collateral aspect of experimental research. In addition, many groups dedicate efforts and resources solely to the development of new devices, sensors, equipment and large infrastructure, theoretical and numerical studies, and novel experimental methodologies. With *Instruments* we wish to address both established and emerging communities, also to favor the creation of innovative trans-disciplinary approaches. We see *Instruments* as an exciting high-impact journal that will soon hold a leading position in disseminating cutting edge scientific and technological research.

Editor-in-Chief

Prof. Dr. Antonio Ereditato

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