Special Issue

Multimessenger Probes of the Universe

Message from the Guest Editor

Multi-messenger studies aim to challenge some of the most important problems in physics, astrophysics and cosmology and to discover new phenomena by combining the information from the world's leading facilities providing us with detection of extra-galactic sources via "messengers" other than photons, such as the high-energy neutrinos, ultra-high energy cosmic rays and gravitational waves. Being complemented by the gamma-ray facilities, which continuously monitor large swaths of the sky for high-energy electromagnetic phenomena, these facilities can probe the high-energy universe and fundamental lows of physics at very high accuracy level..... In this Special Issue, we are interested in articles analyzing multi-messenger signals to test fundamental lows of symmetry in physics, to model of high energy phenomena that predict multi-messenger signals (or lack thereof), to interpret multi-messenger signals and to describing the design of future experiments and new correlation channels. We welcome original research articles, as well as reviews and perspectives on the next decade of research.

Guest Editor

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Message from the Editor-in-Chief

Physics plays a crucial role in our understanding of the world and is of huge significance for the development of other sciences. This ensures that physics is always attracting heightened attention and is at the center of human interest. *Physics* is devoted to all aspects of physics and looks into news and progress of modern physics, seeking new horizons and future discoveries. The journal aims to provide an advanced forum for discussion of contemporary problems in physics and its development.

Editor-in-Chief

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