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Trends and Prospects in High Energy Physics

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Message from the Guest Editors

Dear Colleagues,

High-energy physics covers a wide area of modern physics. This includes particle and nuclear physics, astroparticle physics, cosmic rays, cosmology, and astrophysics. Studies in high-energy particle physics attract great interest; modern experiments such as those at LHC at CERN, and neutrino experiments, investigate the micro world to understand the basics of nature, to distinguish among existing theories, and to discover new features and new particles. Heavy-ion studies aim to investigate new states of matter and provide links between particle physics and astrophysics. Investigations into astroparticle physics, cosmic rays, and cosmology represent a broad range of studies, from investigations of particle creation to the creation of the universe.

We invite original research articles and reviews on the above-described topics to contribute to this Special Issue.

Keywords

- high-energy physics
- particle physics
- neutrino physics
- astrophysics
- heavy-ion physics
- astroparticle physics
- cosmology
- cosmic rays

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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.

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