physics

an Open Access Journal by MDPI

IMPACT FACTOR 1.5

CITESCORE 3.0

Trends and Prospects in High Energy Physics

Guest Editors:

Prof. Dr. Edward Sarkisyan-Grinbaum
1. Experimental Physics Department, CERN, 1211 Geneva 23, Switzerland
2. Department of Physics, The University of Texas at Arlington, Arlington, TX 76019, USA

Prof. Dr. Igor M. Dremin
Theory Department, Lebedev Physics Institute of the Russian Academy of Sciences, 117924 Moscow, Russia

Prof. Dr. Zurab Berezhiani
1. Dipartimento di Fisica e Chimica, Università di L'Aquila, 67010 Coppito, AQ, Italy
2. INFN, Laboratori Nazionali del Gran Sasso, 67010 Assergi, AQ, Italy

Deadline for manuscript submissions:
closed (30 June 2019)

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

mdpi.com/si/20916

Special Issue