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Collectivity in High-Energy Proton-Proton and Heavy-Ion Collisions

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Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Collectivity plays an important role in all branches of physics, including high-energy physics. Many collective phenomena, such as collective flow, strangeness enhancement, charmonium suppression, jet quenching and others, have been observed so far in high-energy heavy-ion as well as proton–proton collisions. At high-energy heavy-ion collisions, the ordinary nuclear (hadronic) matter gets squeezed and “melts” into the state of Quark–gluon plasma (QGP) at high enough energy density and temperature. To extract the parameters and properties of collectivity, it is extremely important and useful to analyze the transverse momentum as well as (pseudo)rapidity distributions of particles produced in high-energy collisions, using efficient phenomenological models based on laws of statistical physics, thermodynamics, and hydrodynamics.

In this Special Issue, we aim to collect original articles and review papers, related to the analysis of any kind of collectivity and collective properties, such as collective flow, strangeness and multistrangeness enhancement...

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Special Issue



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Message from the Editor-in-Chief

The multidisciplinary *Universe* journal is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the editorial board, I extend my welcome to this new journal and look forward to hearing from the interested contributors and learning about their valuable research.

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