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The Quantum Chromodynamics: 50th Anniversary of the Discovery

Guest Editor:

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Deadline for manuscript submissions:

closed (31 March 2024)

Message from the Guest Editor

The quantum chromodynamics (QCD) has the properties of asymptotic freedom at short distance and color confinement at long distance. Extensive programs are proposed at the future electron-ion collider, including precise measurements of the gluon and sea quark contents of the nucleon, the 3D tomography of nucleon, the partonic structure of nuclei, the parton interaction with the nuclear environment, and the exotic states, to address fundamental issues of the origin of nucleon mass and spin and the emergence of color neutral hadrons from quarks and gluons. This Special Issue aims at a collection of both overview and original research, covering every aspect of QCD and hadron physics, including hadron spectroscopy, exotic states, nucleon structures, parton distribution and fragmentation functions, jets, heavy quarks, perturbative and nonperturbative methods. Both theoretical and experimental works are welcome, [...].

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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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