量子物理学・ナノサイエンス第 458 回セミナー

Understanding the Nucleon Spin and Its Spatial Structure in QCD

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日程　：　12 月 8 日（火）13:00 –

場所　：　本館 1 階 M-107 講義室

概　要

Nucleons are the fundamental building blocks of most visible matter in the universe. Understanding how their spin emerges from the underlying quark and gluon degrees of freedom is one of the central goals of modern hadron physics and a key scientific objective of the Electron-Ion Collider (EIC).

In this seminar, we will discuss how the nucleon spin can be decomposed into quark and gluon contributions, with particular emphasis on the physical meaning of different angular momentum decompositions and their sum rules. We will then explore how angular momentum is distributed inside the nucleon within the framework of the quantum phase-space formalism.

連絡教員　　関澤　一之　（内線 2463）