

Pseudoscalar Mesons and Emergent Mass

Thursday, 12 December 2024 14:30 (20 minutes)

When discussing the Standard Model and the origin of mass, the Higgs boson often comes to mind. However, the majority of the mass in the visible universe arises from the nuclear strong interactions governed by quantum chromodynamics. In this presentation, we will explore how the study of pseudoscalar mesons can shed light on the origin of mass within the Standard Model and enhance our understanding of the hadronic structure. We will delve into recent progress in the study of form factors and parton distributions, which provide crucial insights into the internal structure of hadrons. We'll review key advancements from the past decade and offer perspectives on future research directions.

Primary author: RAYA, Khepani (University of Huelva)

Presenter: RAYA, Khepani (University of Huelva)

Session Classification: QCD confinement, Fundamental Symmetries and BSM