



ID contributo: 26

Tipo: **non specificato**

The axial current and its divergence

mercoledì 29 maggio 2024 11:00 (30 minuti)

It is well known that the axial current exhibits the so-called chiral anomaly. The role of this anomaly in the context of the spin sum rule of the nucleon has been intensely discussed soon after the experimental discovery of the spin crisis in the late 1980s. While this field was largely dormant over the last decades, recent work has revived interest in this area. We will discuss perturbative calculations that can shed new light on the role of the axial anomaly in the helicity PDFs and GPDs.

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Classifica Sessioni: Wednesday