

Contribution of QCD condensates to the OPE of Green functions of chiral currents

In this contribution, basic properties of QCD condensates will be presented, together with their relation to the operator product expansion (OPE) and the two-point and three-point Green functions constructed of chiral currents. Next, we will discuss our newest results for contribution of the QCD condensates with dimension $D < 6$ to the Green functions calculated within the framework of chPT/RChT, i.e. chiral perturbation theory or resonance chiral theory. This matching of the OPE and such effective theories can lead to some coupling constants constraints and, therefore, thus allows us to obtain some unknown parameters of the chiral/resonance Lagrangian.

Author: KADAVY, Tomas (Charles University)

Co-authors: NOVOTNY, Jiri (Charles University); KAMPF, Karol (Charles University)

Presenter: KADAVY, Tomas (Charles University)