



Contribution ID: 38

Type: **Plenary Presentation**

The Euclidean Adler function and its interplay with low-energy data and α_s

Wednesday 6 December 2023 10:50 (20 minutes)

Perturbative QCD gives a precise description of the Euclidean Adler function at large momenta. A comprehensive study of the perturbative approach is presented for momenta of the order of the tau mass, including the different expansions at all known orders. We then compare to the corresponding Adler functions obtained from experimental data and lattice simulations and comment on the phenomenological implications. This talk is mostly based on JHEP 04 (2023) 067.

Name of collaboration or list of co-authors

Davier, Díaz-Calderon, Malaescu, Pich, Rodríguez-Sánchez, Zhang

Authors: RODRIGUEZ SANCHEZ, Antonio; DAVIER, Michel; DÍAZ CALDERÓN, David; MALAESCU, Bogdan (LPNHE-Paris CNRS/IN2P3 (FR)); PICH, Antonio (IFIC); ZHANG, Zhiqing Philippe (IJCLab, Orsay (FR))

Presenter: RODRIGUEZ SANCHEZ, Antonio

Session Classification: Wednesday before lunch