Prof. Aleksandrs Aleksejevs

Dispersive Techniques for Two-Loop Calculations
Tuesday, 21st May 2019 12:00 - 13:00
To be announced

Abstract

As the new generation of precision experiments aims to search for physics beyond the Standard Model, it becomes increasingly important to evaluate the relevant higher-order corrections. In collaboration with MOLLER and P2, we work to address the full set of two-loop electroweak radiative corrections to electron-electron and electron-proton scattering cross sections and asymmetries. In this presentation, we will describe the recent developments in dispersive sub-loop insertion approach in two-loop calculations, which would allow partial automatization.