Excited QCD 2019



Contribution ID: 41 Type: not specified

New approach in knowledge of $a_{mu}^{(LO)had}valuestothemuon$ g-2\$ anomaly

Wednesday, 30 January 2019 18:00 (30 minutes)

Recently Pavia-Padova-Parma-Frascati group of theoretitions has suggested novel approach to determine the leading order of hadronic contribution $a_{\mu}^{(LO)had}$ to the muon g-2 anomaly, consisting in a measurement of the running QED fine structure constant by Bhaba $\mu e \to \mu e$ scattering at CERN and an extraction of $\delta \alpha_{had}^5(s)$ from the latter, to be crucial in determination of $a_{\mu}^{(LO)had}$. It is demonstrated how by one elaborated Unitary and Analytic model of electromagnetic structure of hadrons can be predicted $\delta \alpha_{had}^5(s)$ before measurements carried out at CERN.

Primary authors: DUBNICKOVA, Adubni (Comenius University (SK)); DUBNICKA, Stanislav (Institute of

Physics); LIPTAJ, Andrej (Slovak Academy of Sciences (SK))

Presenter: DUBNICKOVA, Adubni (Comenius University (SK))