

Short distance contribution to the muon $g-2$

Monday 23 November 2020 16:15 (15 minutes)

We recently showed how to calculate the short-distance contributions to the hadronic light-by-light part of the muon anomalous magnetic moment by using an alternative operator product expansion, see arXiv:2008.13487 and arXiv:1908.03331. I will also show preliminary results of the gluonic perturbative corrections (work in progress). This work removes one of the barriers to higher theory precision in the muon anomalous magnetic moment as discussed in the white paper arXiv:2006.04822

Abstract Track

Theory

Authors: BIJNENS, Johan; HERMANSSON-TRUEDSSON, Nils; LAUB, Laetitia; RODRIGUEZ-SANCHEZ, Antonio

Presenter: BIJNENS, Johan

Session Classification: Monday afternoon