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S4 approach to the structure of four-point functions and its applications to the LbL-scattering contribution to the muon $g-2$

Thursday 29 September 2016 16:10 (35 minutes)

Summary

The Dyson-Schwinger/Bethe-Salpeter approach can serve as a microscopic tool to determine the hadronic contributions to the muon $g-2$. I will discuss the basic ideas, their application to the hadronic vacuum polarization and the hLbL amplitude, and their complementarity to other approaches such as lattice QCD, dispersion relations and models. The (model-independent) structure of the LbL amplitude will be discussed along with the relevant momentum regions and its tensor basis that is constrained by transversality, analyticity and symmetry under the permutation group S_4 .

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Session Classification: Muon $g-2$