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HLbl
discussion

Johan Bijnens
et al

HLbL ANALYTIC DISCUSSION

Johan Bijnens, Gilberto Colangelo, Achim Denig, Bastian Kubis,

Pablo Sanchez Puertas, Boris Shwartz, Peter Stoffer

Muon g-2 theory initiative workshop   KEK, Nagoya, Lund,...   28 June - 3 July 2021

Introduction

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- Talks we just had:
  - Gilberto Colangelo: Introduction
  - Johan Bijnens: Short-distance constraints
  - Bastian Kubis: Transition form factors
  - Peter Stoffer: Narrow resonance estimates
  - Anton Rebhan: Implementation of short-distance constraints
- Theory extra
  - Pablo Puertas Sanchez
- Experiment extra
  - Boris Shwartz
  - Achim Denig

Questions/Observations

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- Progress since WP:
  - SDC on much better footing
  - Improvements on their implementation
  - Improvement on η, η' TFF
  - Improvement on scalars and axial-vectors
- Questions
  - How to properly combine the SDC and the other contributions
  - How to compare the different calculations for similar contributions
  - Are there calculations that would be a clear improvement (and are feasible)
  - Which experiments can help in lowering uncertainties
- Questions/discussion left over from the talks