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Experimental inputs for the hadronic calculations of the muon g-2

Thursday 29 September 2016 12:25 (35 minutes)

Summary

The anomalous magnetic momentum, $(g-2)_\mu$, has been measured in experiments and calculated in theory with very high precision.
But there is a difference between these two accurate values, from 3 to 4 standard deviation.

The dominant uncertainty in theoretical calculation comes from hadronic contribution, including contributions from hadronic vacuum
polarization and hadronic light by light. Recent experimental measurements which can be used as input or constrain for these two
kinds of contributions will be introduced, including the hadronic cross section measurements from BESIII experiment and the transition
form factor measurements from meson decays and two photon processes.

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Session Classification: Muon g-2