

Hadronic Contributions to Muon $g-2$ and Spin Structure Functions

Wednesday, May 30, 2018 2:20 PM (20 minutes)

I will discuss the relation, viz. Schwinger's sum rule, between the $g-2$ and the spin structure functions. It allows one to assess the hadronic (as well as other) contributions to muon $g-2$ by measuring the structure function. The latter can be accessed experimentally in inelastic muon-electron scattering. I will outline the prospects of such measurements at the muon-beam facilities.

This presentation is based on:

F. Hagelstein and V. Pascalutsa, Phys.Rev.Lett. 120 (2018) no.7, 072002 [DOI: 10.1103/PhysRevLett.120.072002]

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