

# Anomalous magnetic moment of the muon with dynamical QCD+QED

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The QCDSF collaboration has generated an ensemble of configurations with dynamical QCD and QED fields. They are generated with the specific aim of studying flavour breaking effects arising from differences in the quark masses and charges in physical quantities. Here we study these effects in a calculation of the anomalous magnetic moment of the muon  $a_\mu = (g-2)/2$  around an SU(3) symmetric point. Furthermore, by performing partially quenched simulations we are able to cover a larger range of quark masses and charges on these configurations and then fit the results to an SU(3) flavour breaking expansion. Subsequently, this allows for an extrapolation to the physical point.

**Primary author:** ZANOTTI, James (University of Adelaide)

**Presenter:** ZANOTTI, James (University of Adelaide)

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