

## A continuum determination of the strong isospin-breaking contribution to the muon anomalous magnetic moment

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We present a continuum determination of  $a_\mu^{\text{SIB}}$ , the strong isospin-breaking contribution to  $a_\mu$ , the anomalous magnetic moment of the muon, using ChPT and the formulation of  $a_\mu$  as a weighted integral of the electromagnetic current two-point function over Euclidean  $Q^2$ . Flavor-breaking hadronic tau decay sum rules are shown to provide a determination of a key higher-order chiral LEC encoding numerically important resonance region contributions. Implications of the structure of the result for the lattice determination of  $a_\mu^{\text{SIB}}$  are also discussed.

### What is your topic?

Anomalous Magnetic Moment of the muon

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