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Isospin breaking corrections to the vector-vector correlator in QCD: the muon $g-2$ and tau decays.

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In this contribution we report on progress in the determination of the isospin breaking corrections to the vector-vector correlator in QCD from the RBC/UKQCD collaborations. They are relevant to estimate the hadronic contributions to the muon anomalous magnetic moment directly from first-principles lattice QCD simulations, and indirectly from cross sections measured in tau decay experiments.

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