

On isospin breaking in tau decays for $(g-2)$ from Lattice QCD

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Hadronic spectral functions of tau decays have been used in the past to provide an alternative determination of the LO Hadronic Vacuum Polarization relevant for $(g-2)$ of the muon. Following recent developments and results in Lattice QCD+QED calculations, we explore the possibility of studying the isospin breaking corrections of tau spectral functions for this prediction. We present preliminary results at physical pion mass based on Domain Wall Fermion ensembles generated by the RBC/UKQCD collaboration, which we compare and contrast with the previous phenomenological calculations.

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