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An Update on the Isospin-Breaking Effects in the Pion Decay Constant with Staggered Quarks

Friday 7 November 2025 17:20 (20 minutes)

We present an update of the ongoing computation of the isospin-breaking effects in the Pion Decay Constant from the BMW Collaboration. The calculation is carried out with $N_f=2+1+1$ staggered quarks with a near-physical pion mass and QED_L . We present some preliminary results of the valence-valence contribution to the axial-pseudoscalar correlator for different volumes $L = 4.2, 6.3, 8.4$ fm at $a = 0.1315$ fm and a single volume $L = 6$ fm and at $a = 0.0952$ fm. We also discuss the next steps and plans.

Parallel Session (for talks only)

Quark and lepton flavor physics

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