

Pion Distribution Amplitude from lattice QCD: towards the continuum limit

Tuesday, 24 July 2018 15:20 (20 minutes)

We present the current status of a non-perturbative lattice calculation of the pion distribution amplitude by the RQCD collaboration. Our investigation is carried out using $N_f = 2 + 1$ dynamical, non-perturbatively $O(a)$ -improved Wilson fermions on the CLS ensembles with 5 different lattice spacings and pion masses down to the physical pion mass. A combined continuum and chiral extrapolation to the physical point is performed along two independent quark mass trajectories simultaneously. We employ momentum smearing in order to decrease the contamination of excited states and increase statistical precision.

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Session Classification: Hadron Structure

Track Classification: Hadron Structure