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Finite volume effects of the hadron matrix elements based on high precision LQCD calculation

Finite volume effect (FVE) is an essential systematic uncertainty in lattice QCD calculations, as it requires high-precision lattice QCD calculations with different pion masses and lattice spacings to control this effect without significant dependence on the χ PT model. I will present our recent calculation of the FVE of the isovector scalar and tensor charge using different combinations of pion mass and lattice spacing, to highlight the possible importance of controlling this effect.

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