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Kaon semileptonic decays with $N_f = 2 + 1 + 1$ HISQ fermions and physical light quark masses

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We present an update of our calculation of the $K_{\ell 3}$ form factor $f_+^{K\pi}(0)$, with added statistics and the inclusion of new ensembles with smaller lattice spacing. In addition, we now also include a study of finite volume effects using a version of staggered ChPT that includes the effects of twisted boundary conditions.We also examine the implications for the unitarity of the CKM matrix in the first row by combining these improved results together with $N_f = 2 + 1 + 1$ MILC results for light decay constants.

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